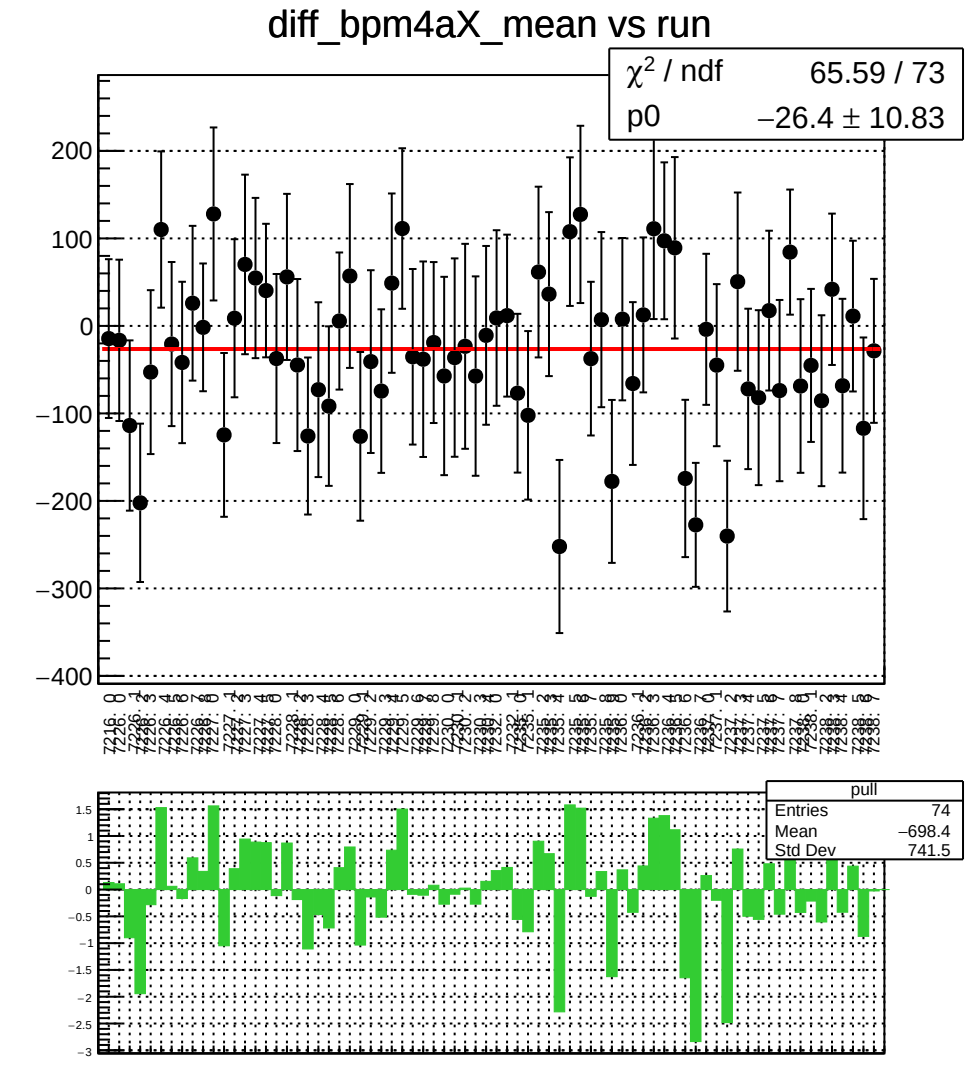
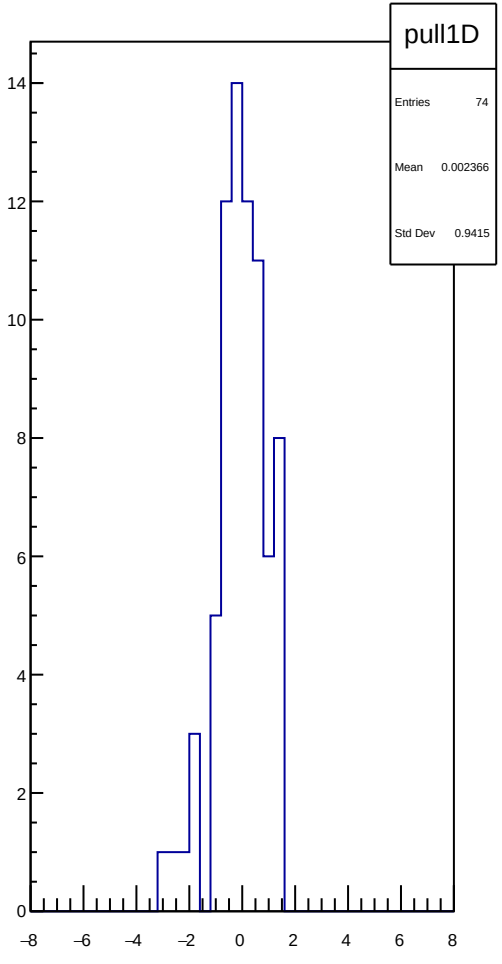
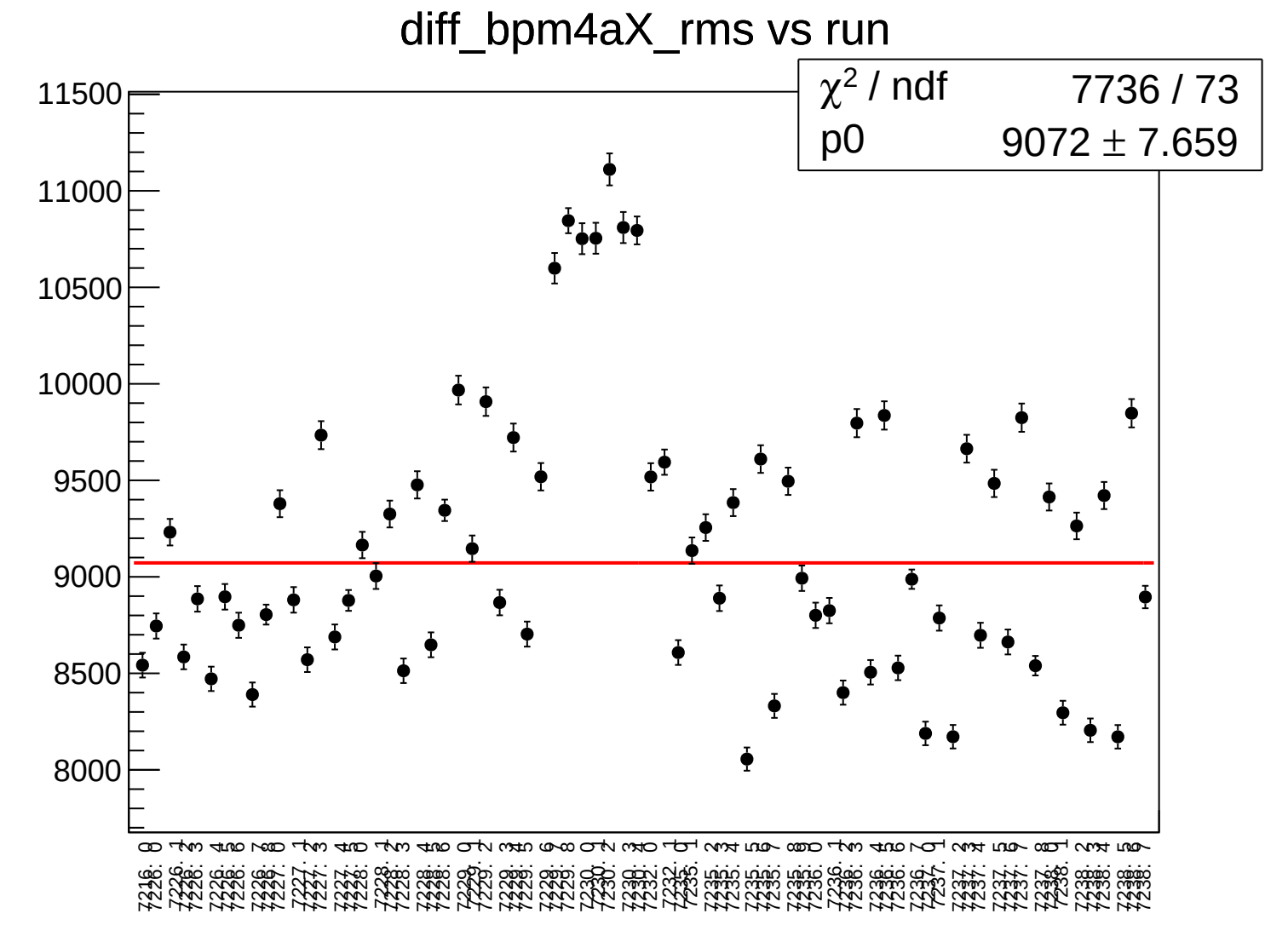
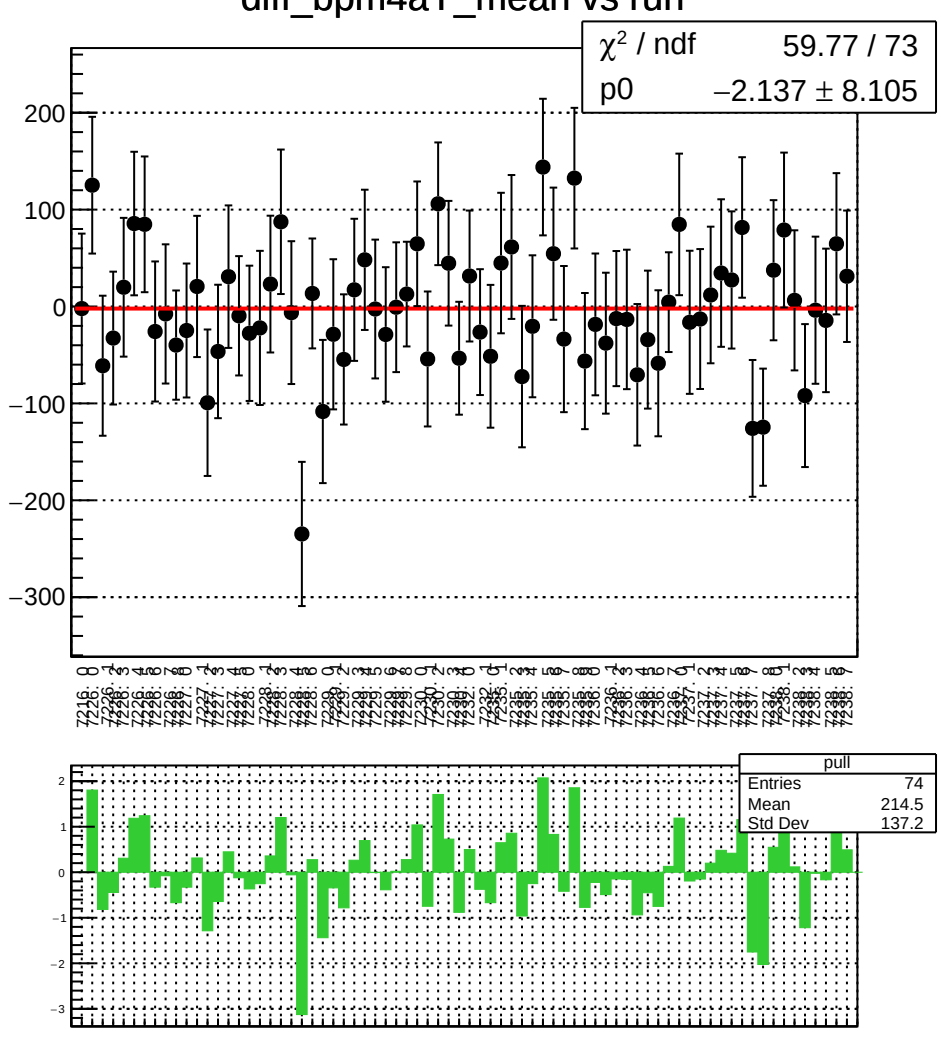
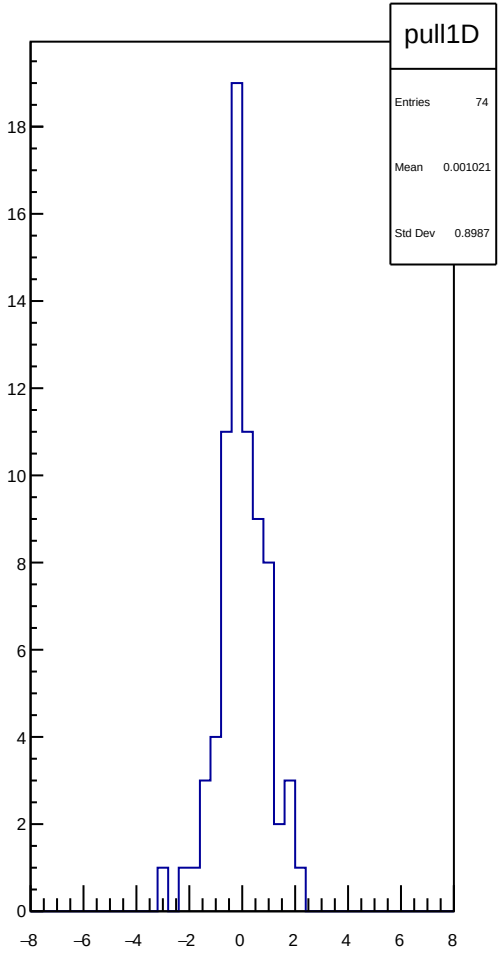
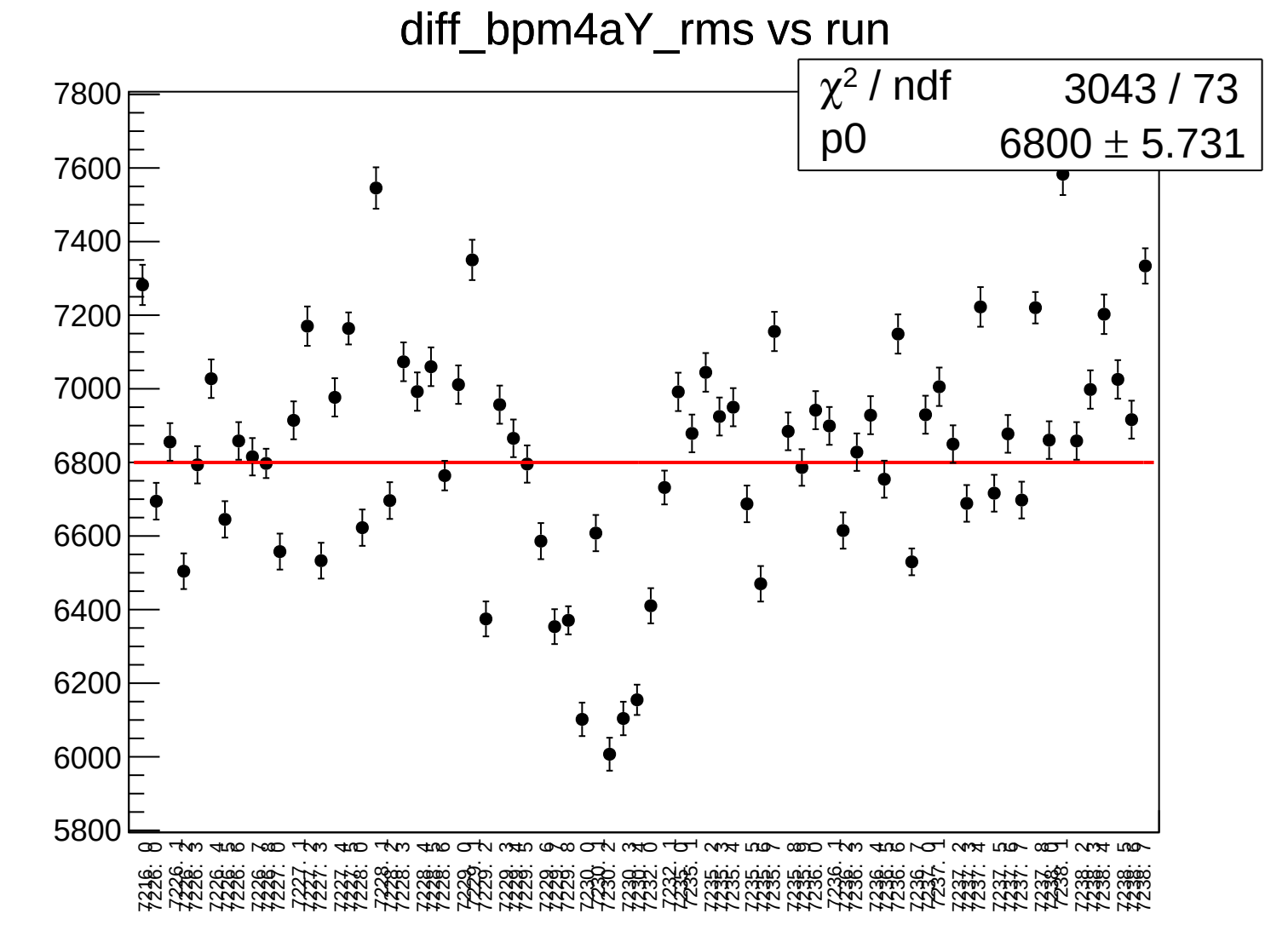

diff_bpm4aX_mean vs run
χ² / ndf 65.59 / 73
p0 −26.4 ± 10.83
pull
Entries 74
Mean −698.4
Std Dev 741.5

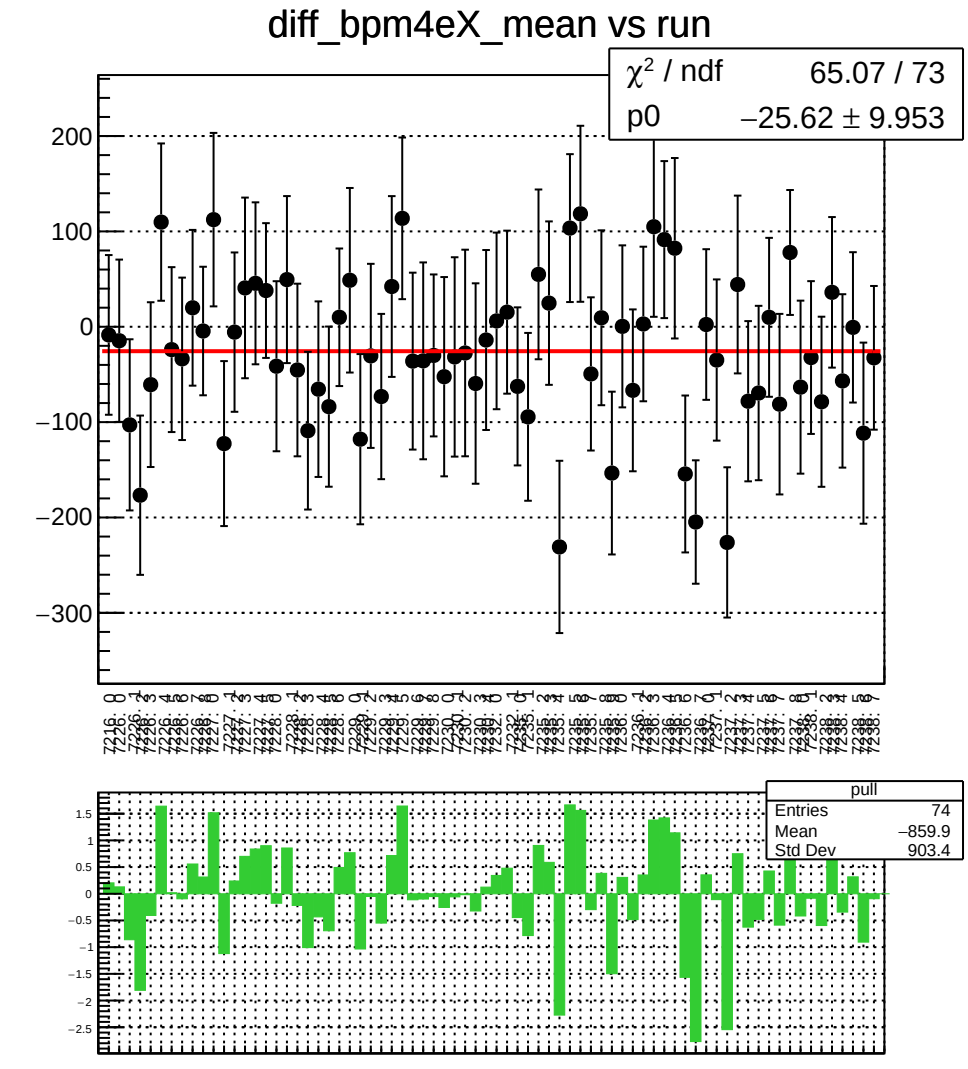

pull1D
Entries 74
Mean 0.002366
Std Dev 0.9415

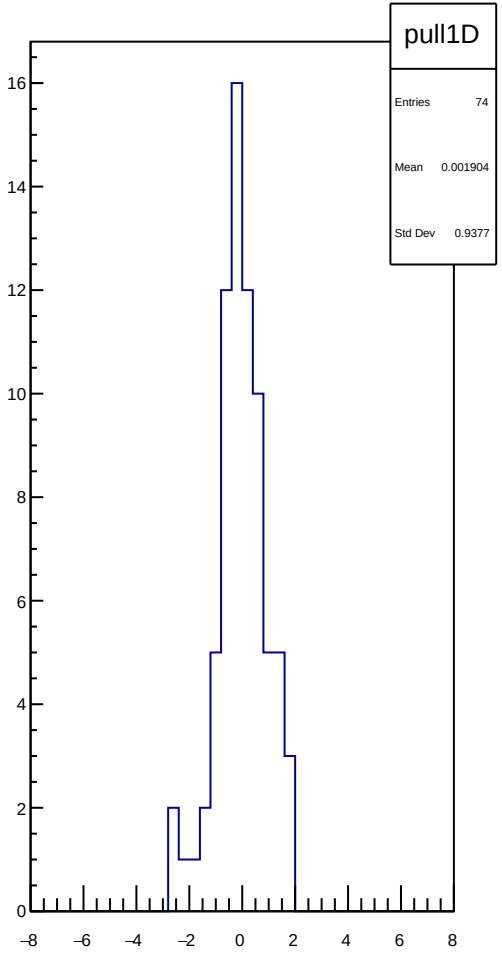

diff_bpm4aX_rms vs run
χ^2 / ndf 7736 / 73
p0 9072 ± 7.659
11500
11000
10500
10000
9500
9000
8500
8000

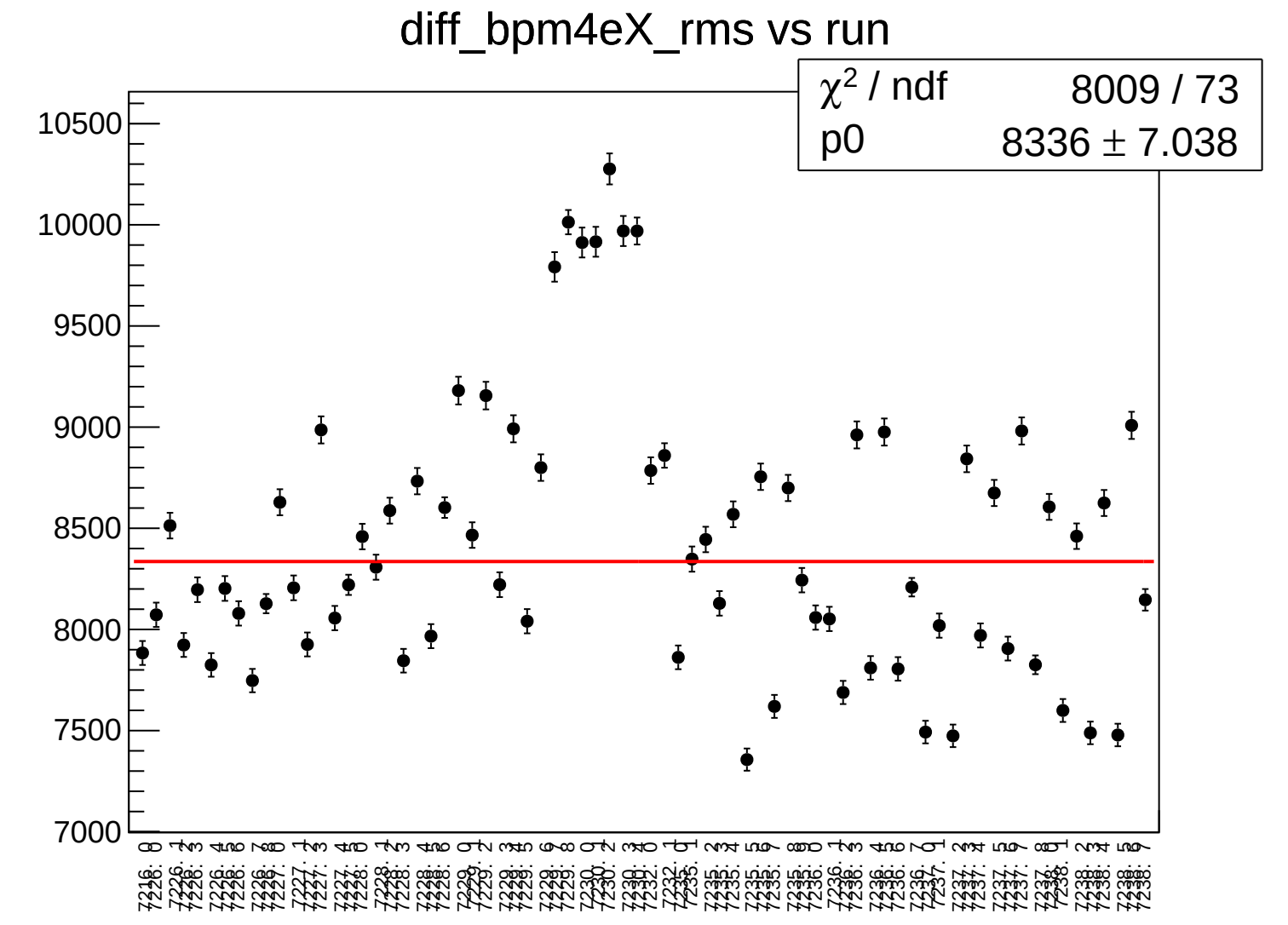

diff_bpm4aY_mean vs run
χ² / ndf 59.77 / 73
p0 −2.137 ± 8.105
pull
Entries 74
Mean 214.5
Std Dev 137.2

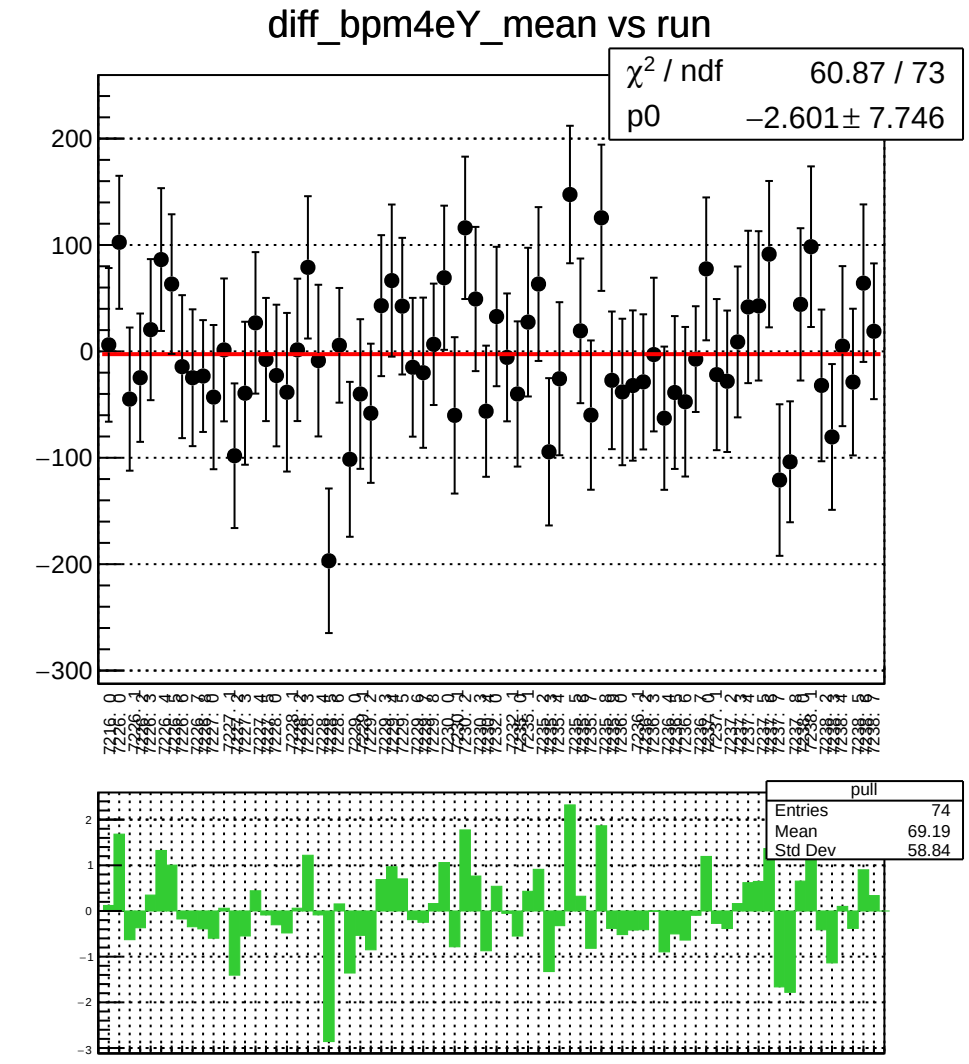

pull1D
Entries 74
Mean 0.001021
Std Dev 0.8987

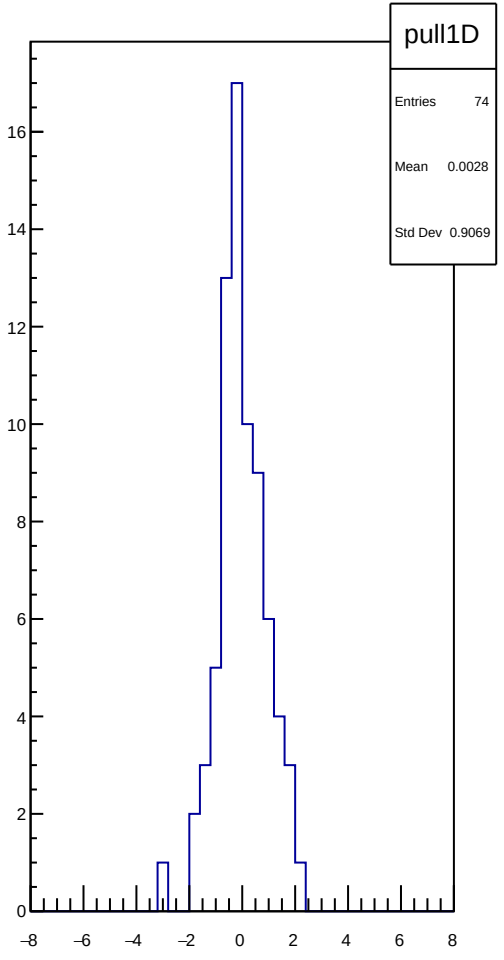

diff_bpm4aY_rms vs run
χ^2 / ndf 3043 / 73
p0 6800 ± 5.731
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

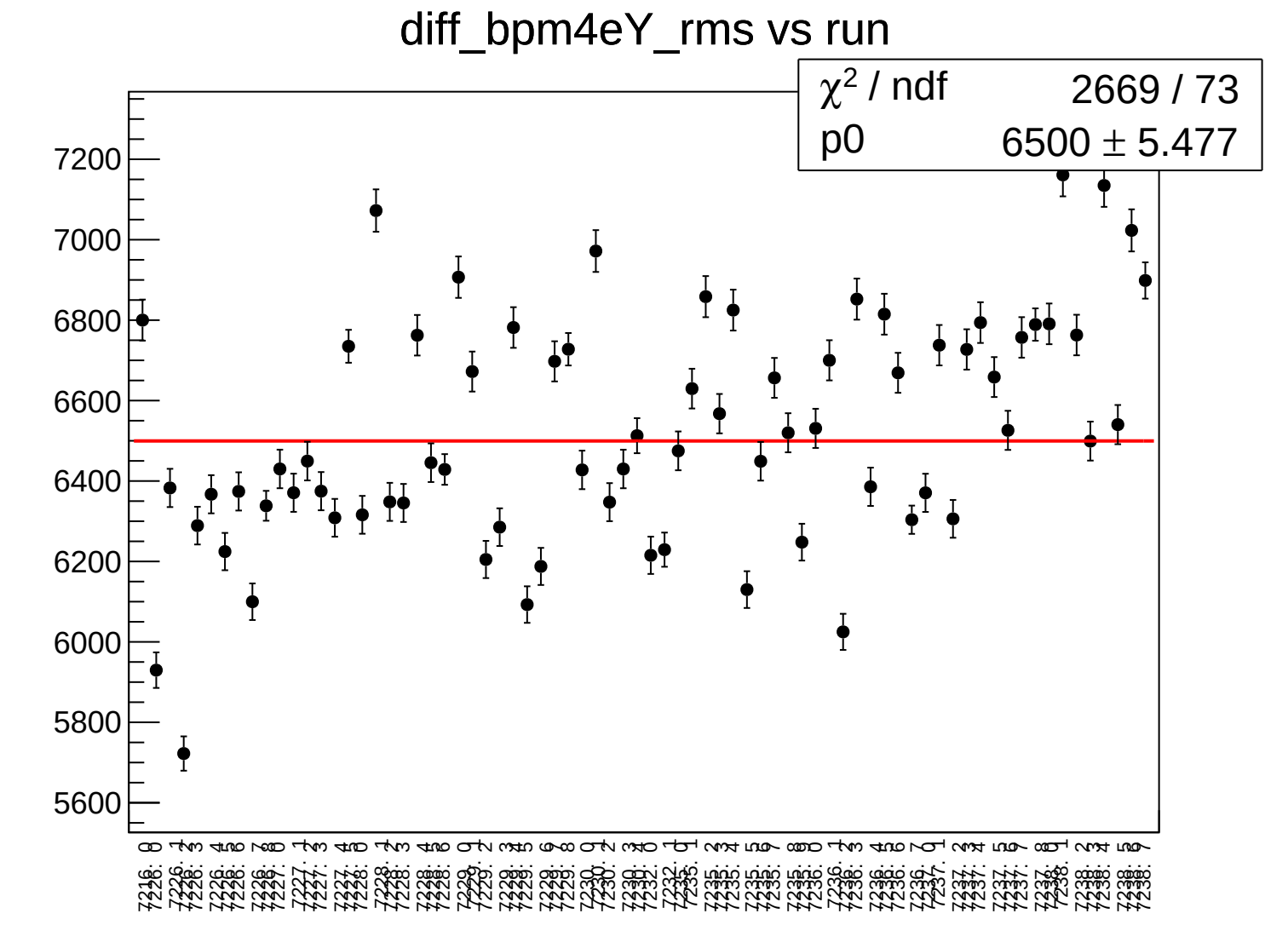

diff_bpm4eX_mean vs run
χ² / ndf 65.07 / 73
p0 −25.62 ± 9.953
pull
Entries 74
Mean −859.9
Std Dev 903.4

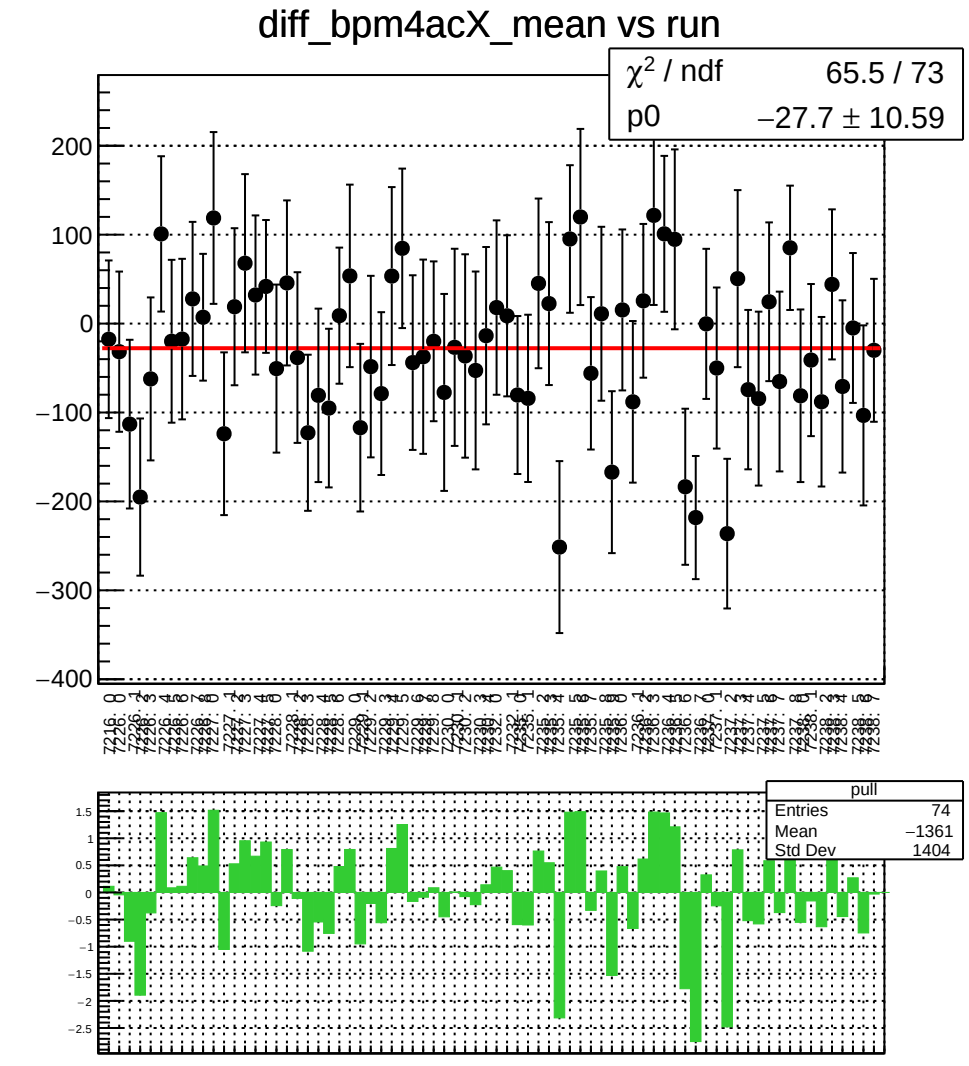

pull1D
Entries 74
Mean 0.001904
Std Dev 0.9377

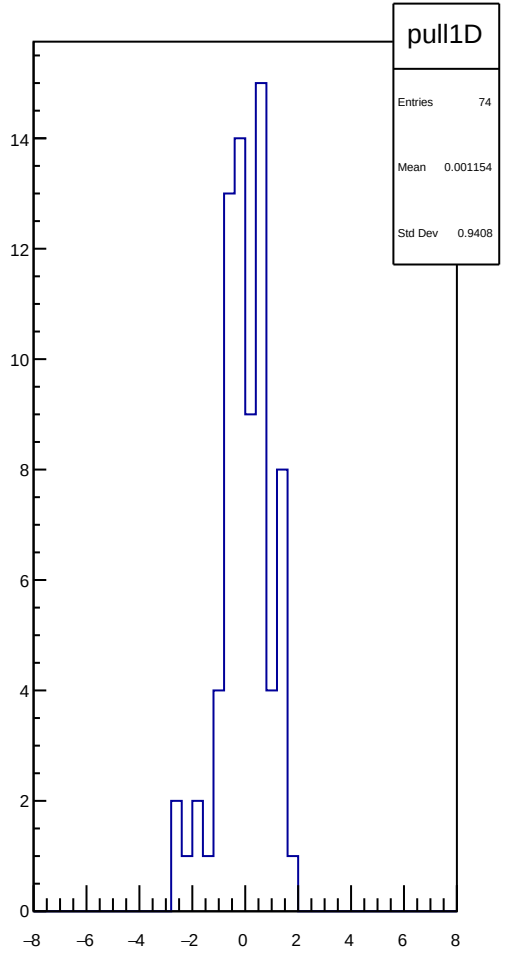

diff_bpm4eX_rms vs run
χ^2 / ndf 8009 / 73
p0 8336 ± 7.038
10500
10000
9500
9000
8500
8000
7500
7000

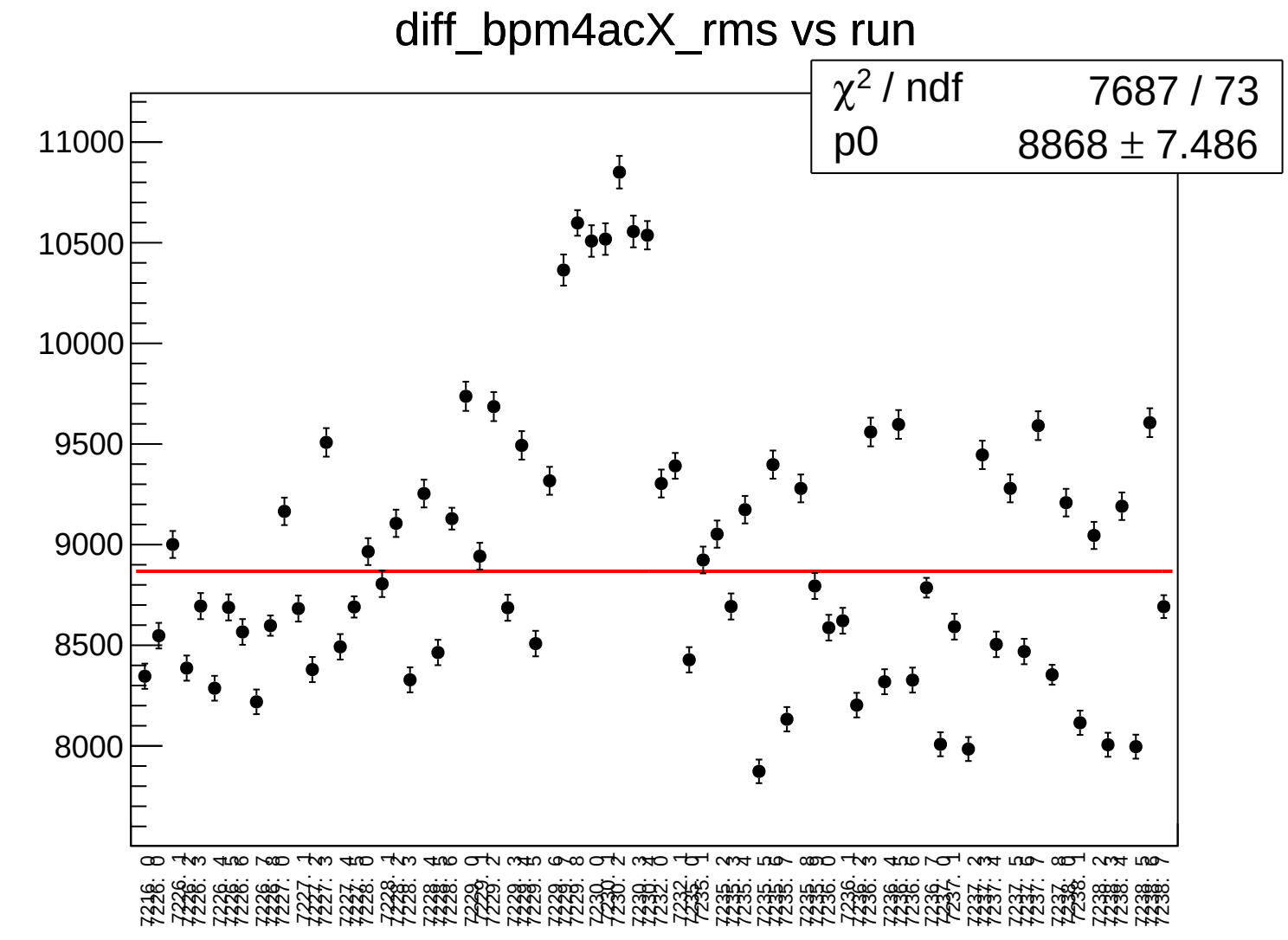

diff_bpm4eY_mean vs run
χ² / ndf 60.87 / 73
p0 −2.601 ± 7.746
200
100
0
−100
−200
−300
pull
Entries 74
Mean 69.19
Std Dev 58.84
2
1
0
−1
−2
−3

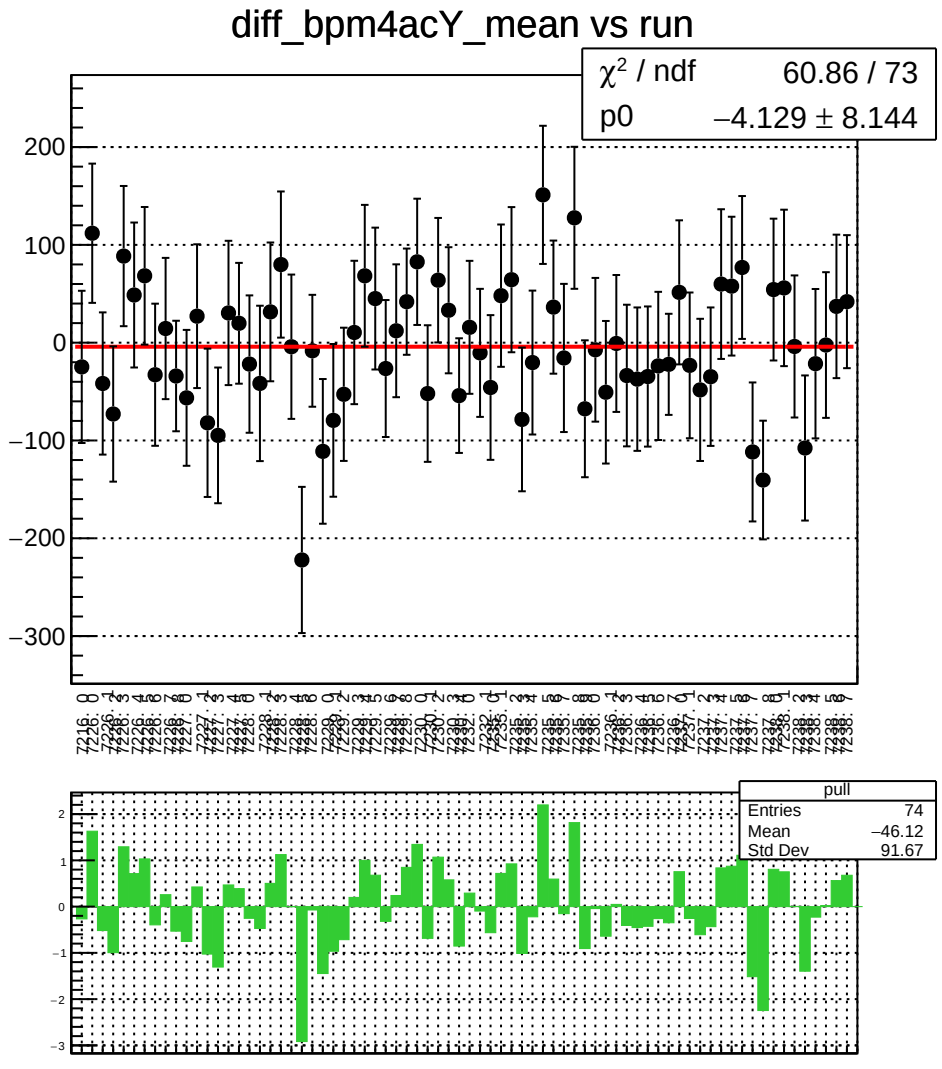

pull1D
Entries 74
Mean 0.0028
Std Dev 0.9069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

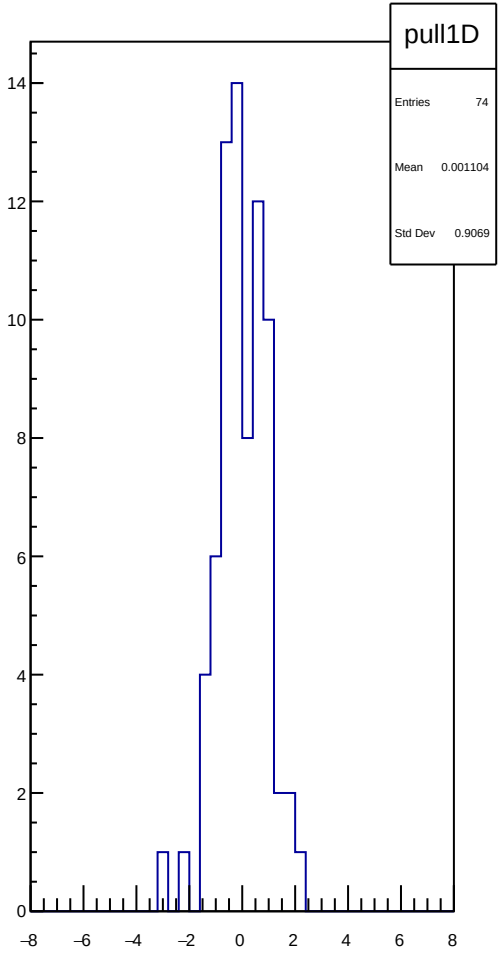

diff_bpm4eY_rms vs run
χ^2 / ndf 2669 / 73
p0 6500 ± 5.477
7200
7000
6800
6600
6400
6200
6000
5800
5600

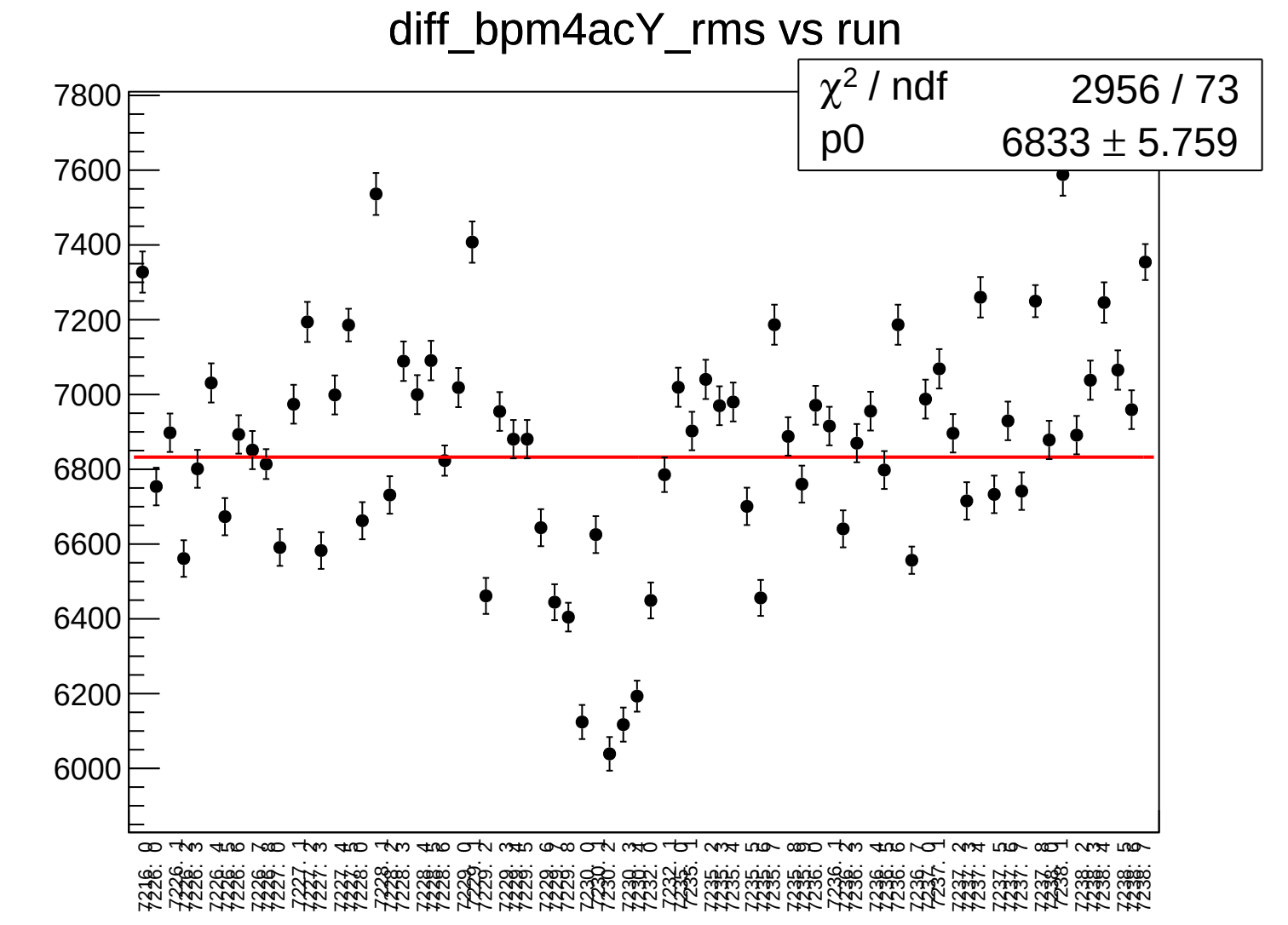

diff_bpm4acX_mean vs run
χ² / ndf 65.5 / 73
p0 −27.7 ± 10.59
200
100
0
−100
−200
−300
−400
pull
Entries 74
Mean −1361
Std Dev 1404
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

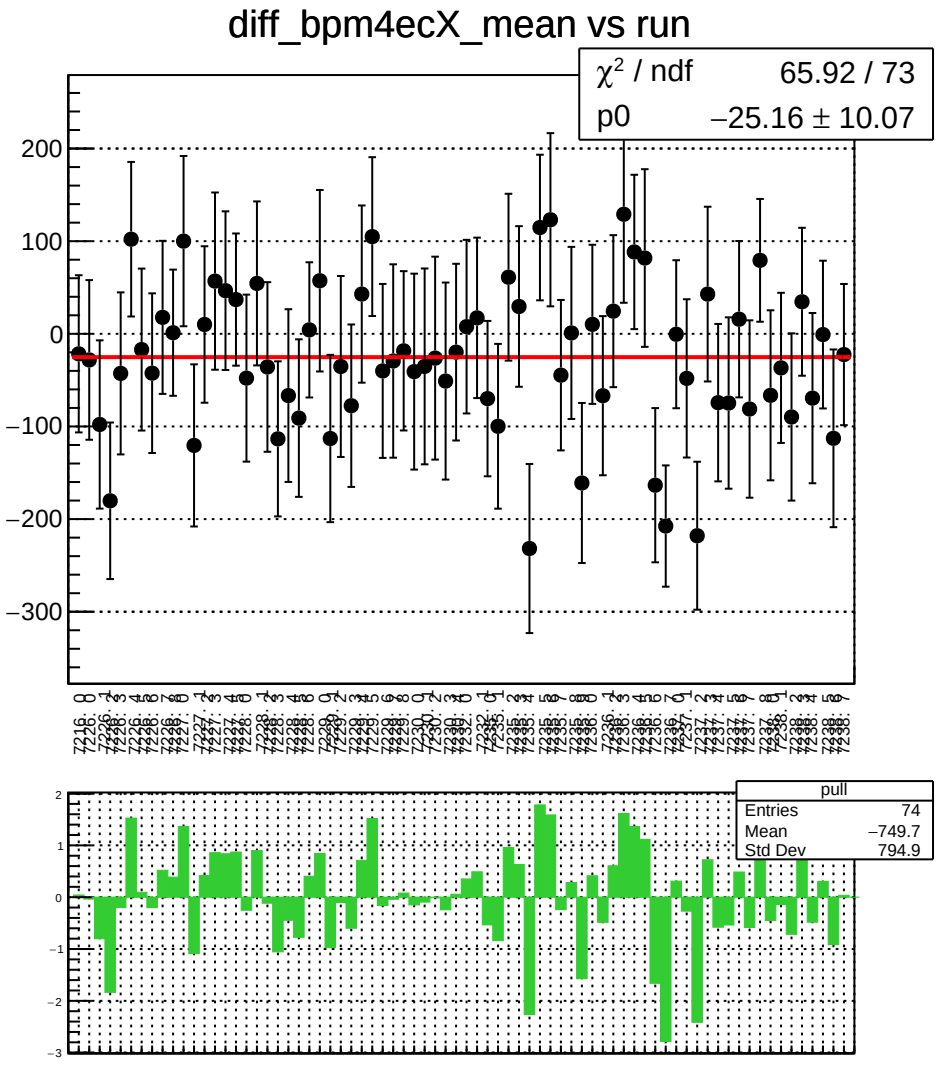

pull1D
Entries 74
Mean 0.001154
Std Dev 0.9408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

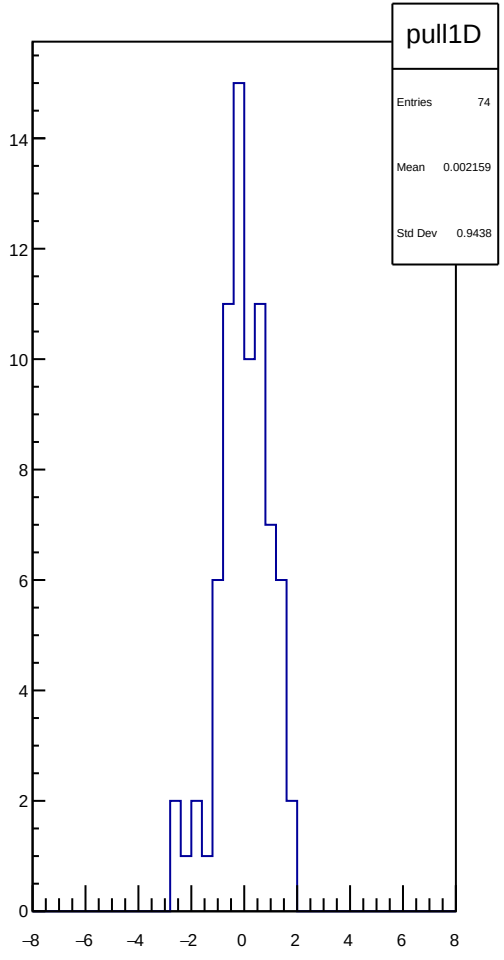

diff_bpm4acX_rms vs run
χ² / ndf 7687 / 73
p0 8868 ± 7.486
11000
10500
10000
9500
9000
8500
8000

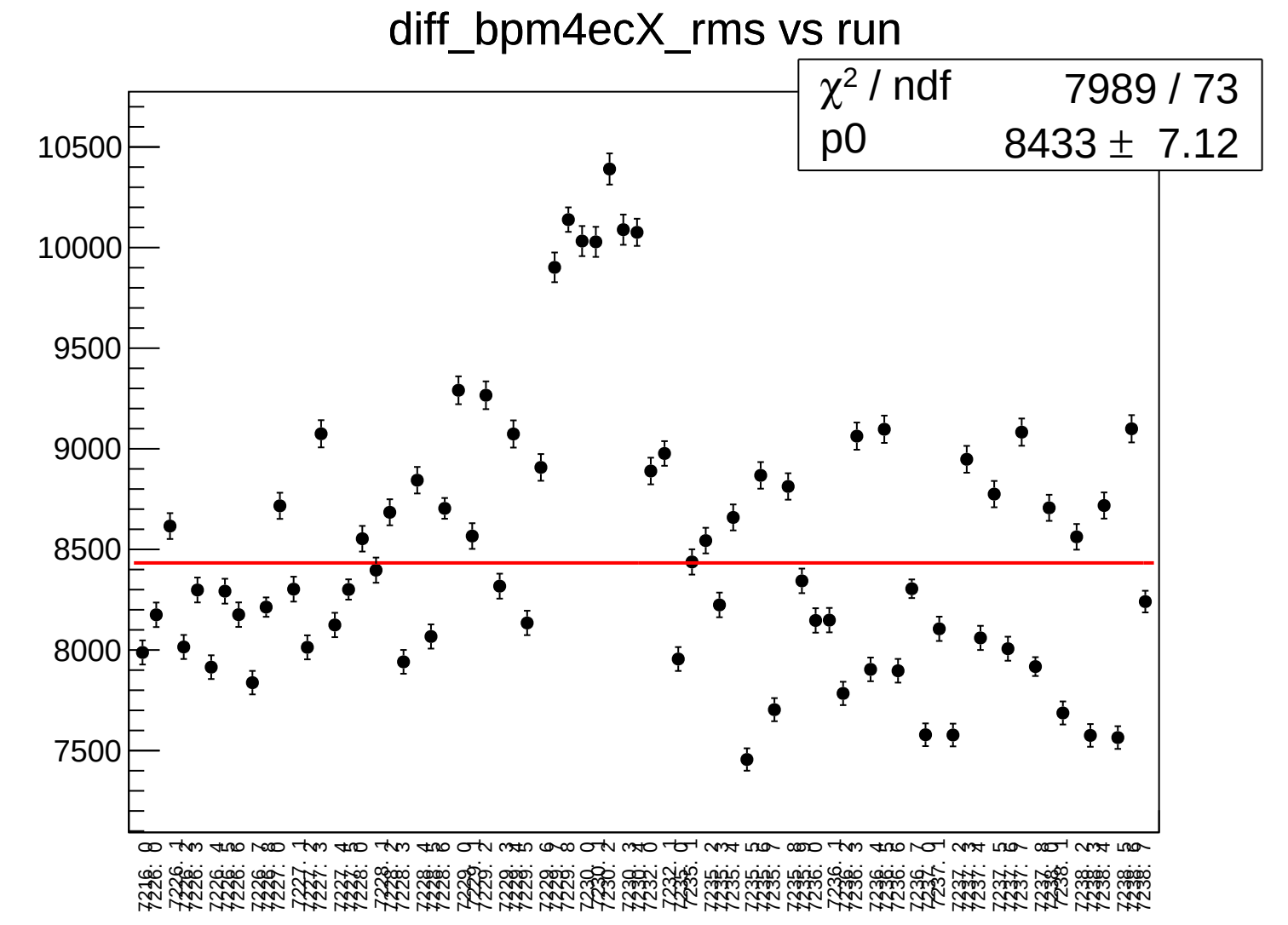

diff_bpm4acY_mean vs run
χ² / ndf 60.86 / 73
p0 −4.129 ± 8.144
pull
Entries 74
Mean −46.12
Std Dev 91.67

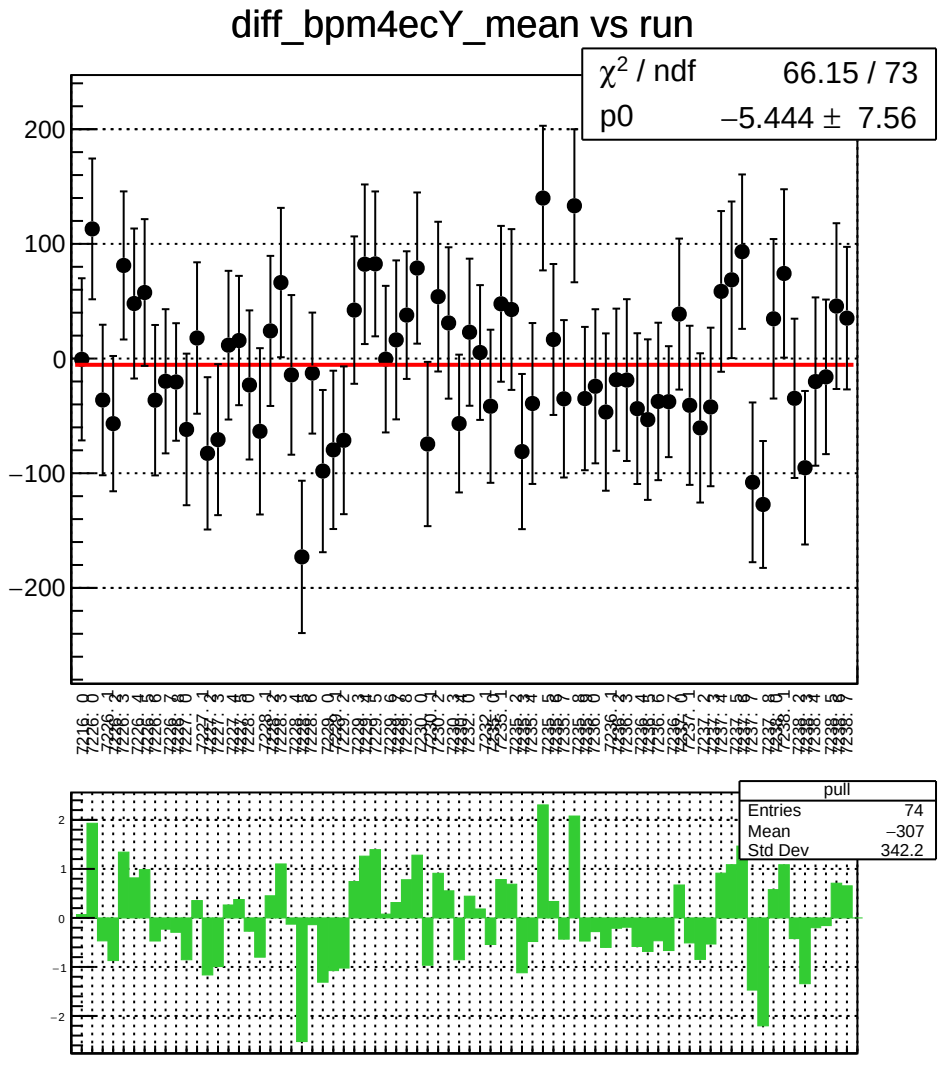

pull1D
Entries 74
Mean 0.001104
Std Dev 0.9069

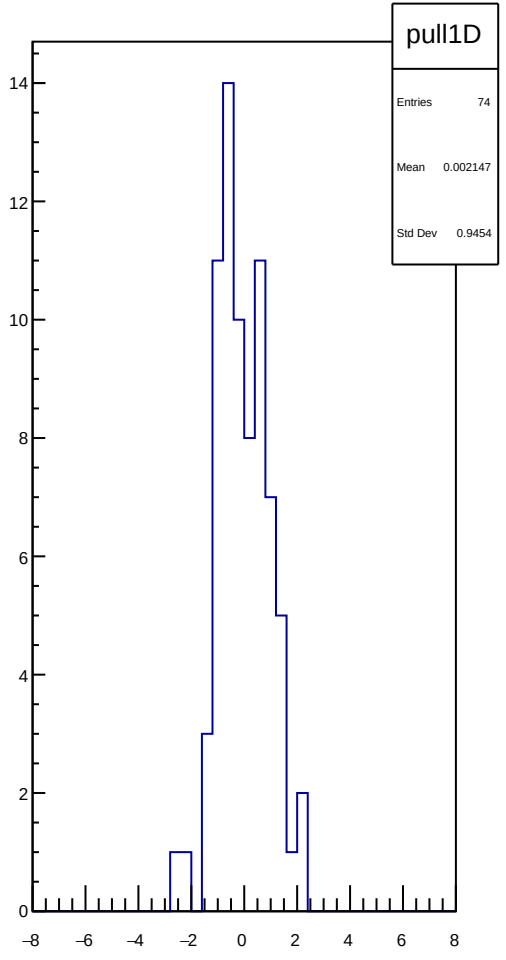

diff_bpm4acY_rms vs run
χ^2 / ndf 2956 / 73
p0 6833 ± 5.759
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

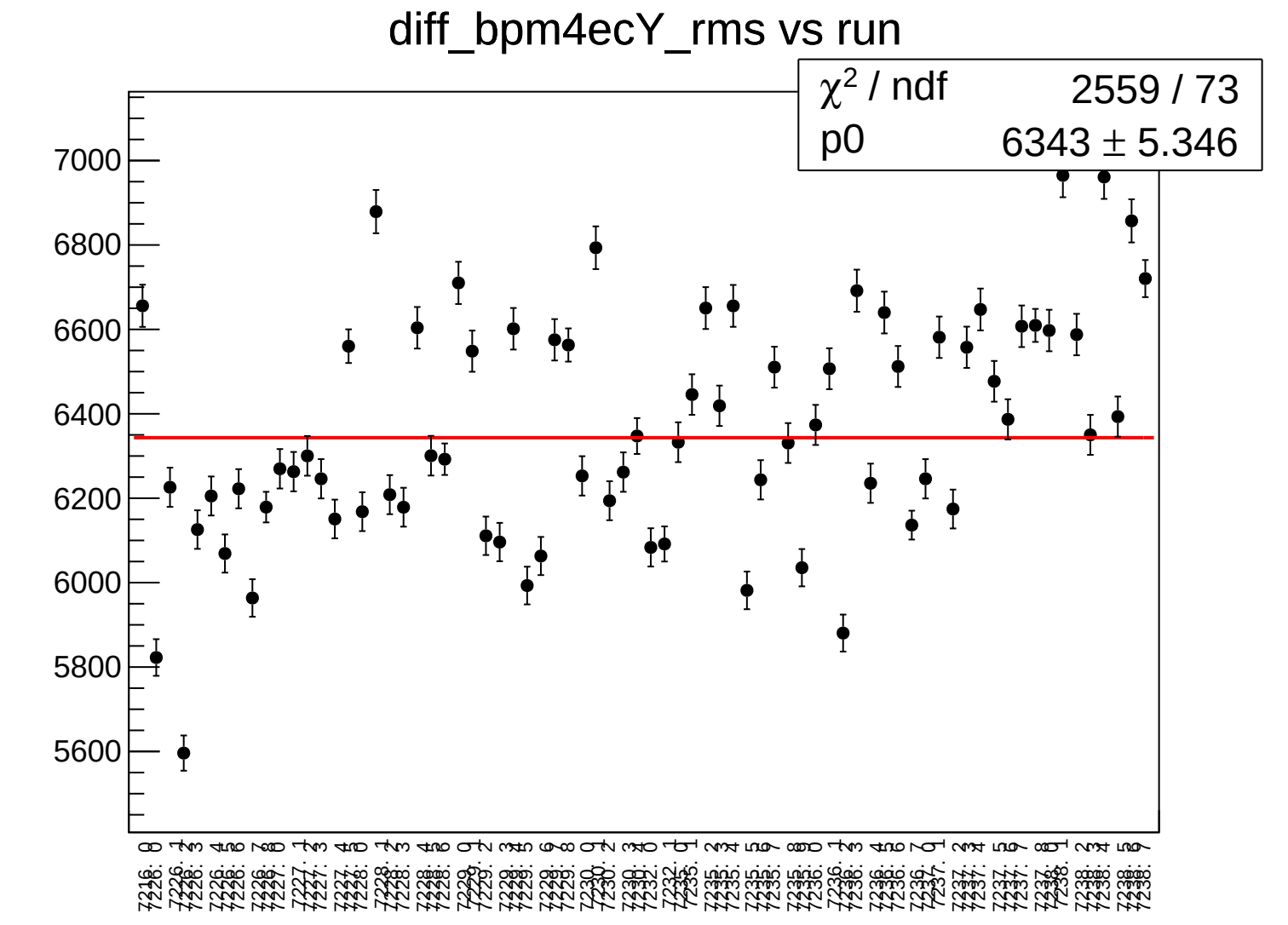

diff_bpm4ecX_mean vs run
χ² / ndf 65.92 / 73
p0 −25.16 ± 10.07
pull
Entries 74
Mean −749.7
Std Dev 794.9

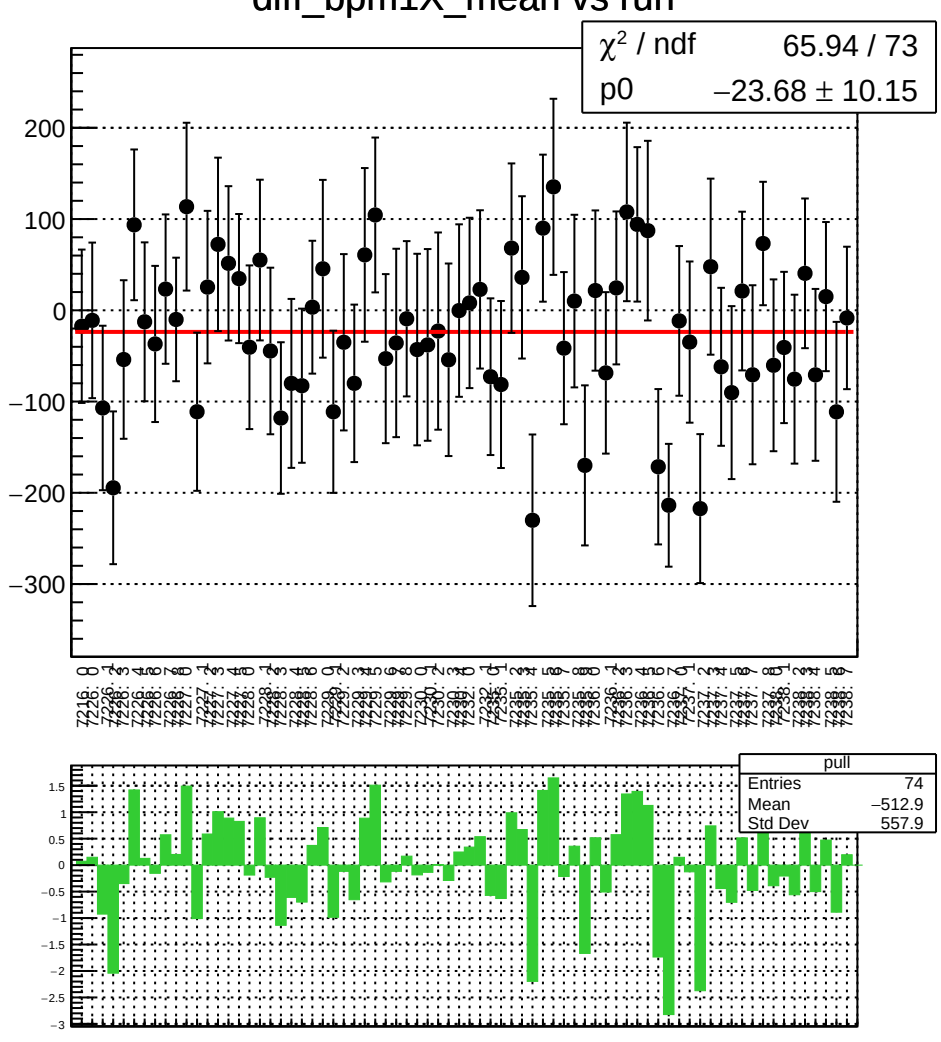

pull1D
Entries 74
Mean 0.002159
Std Dev 0.9438

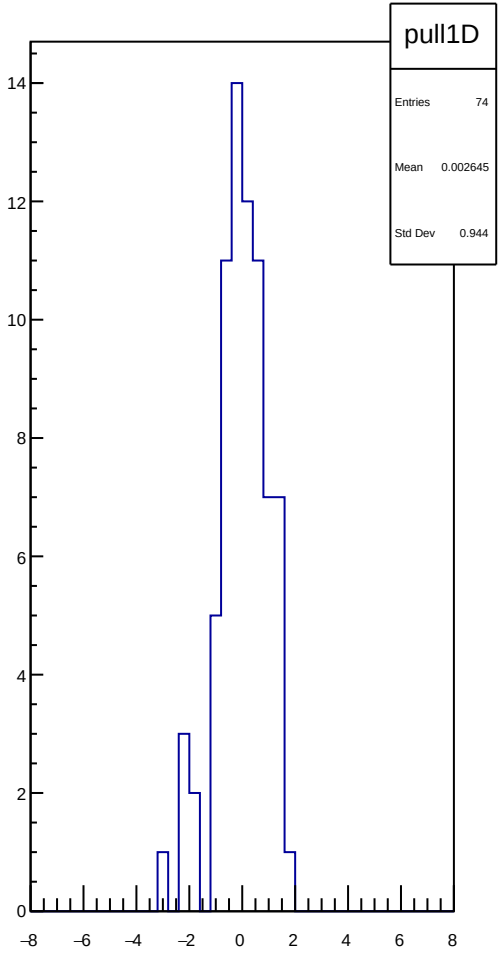

diff_bpm4ecX_rms vs run
χ² / ndf 7989 / 73
p0 8433 ± 7.12
10500
10000
9500
9000
8500
8000
7500

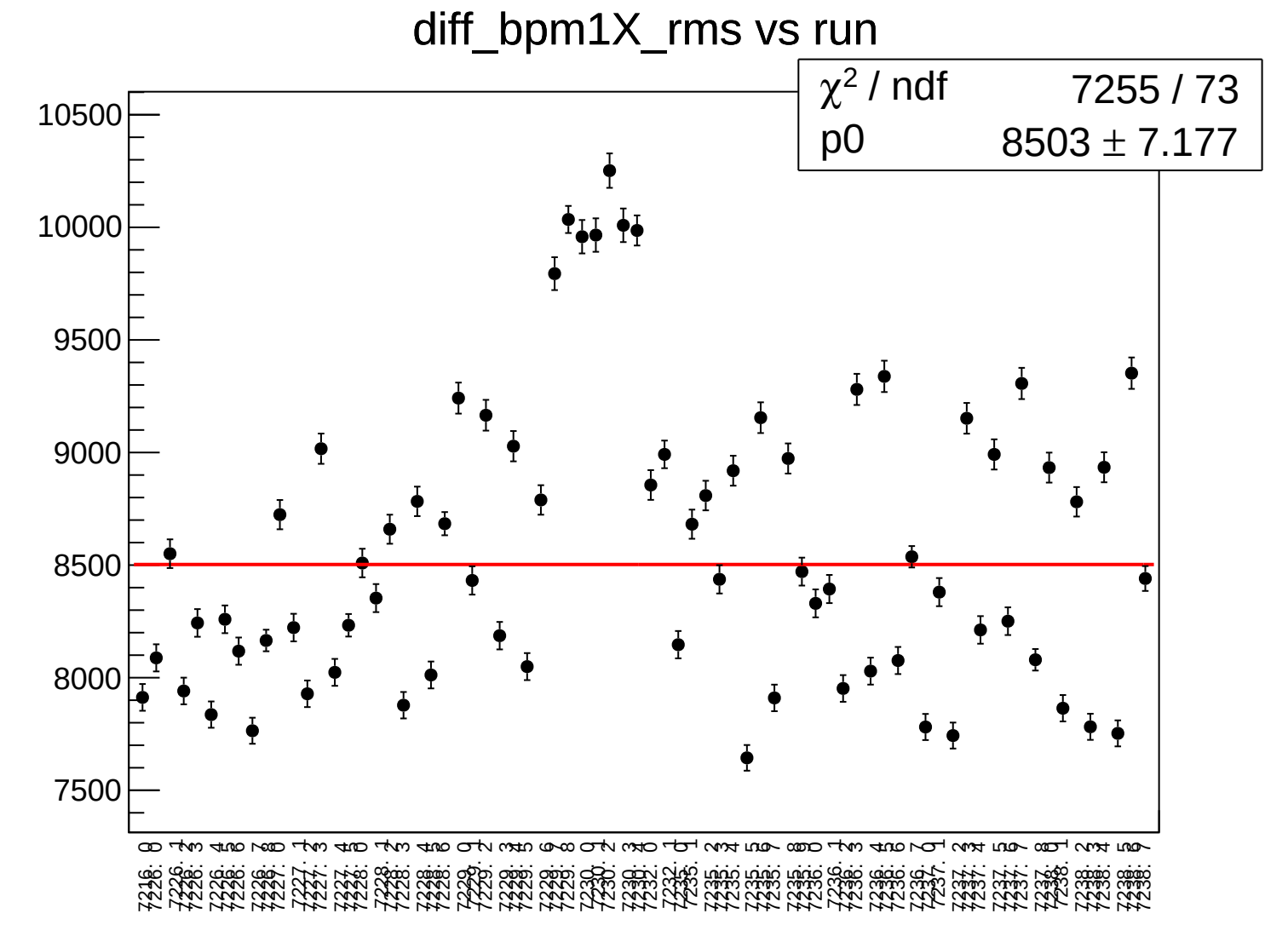

diff_bpm4ecY_mean vs run
χ² / ndf 66.15 / 73
p0 −5.444 ± 7.56
200
100
0
−100
−200
pull
Entries 74
Mean −307
Std Dev 342.2
2
1
0
−1
−2

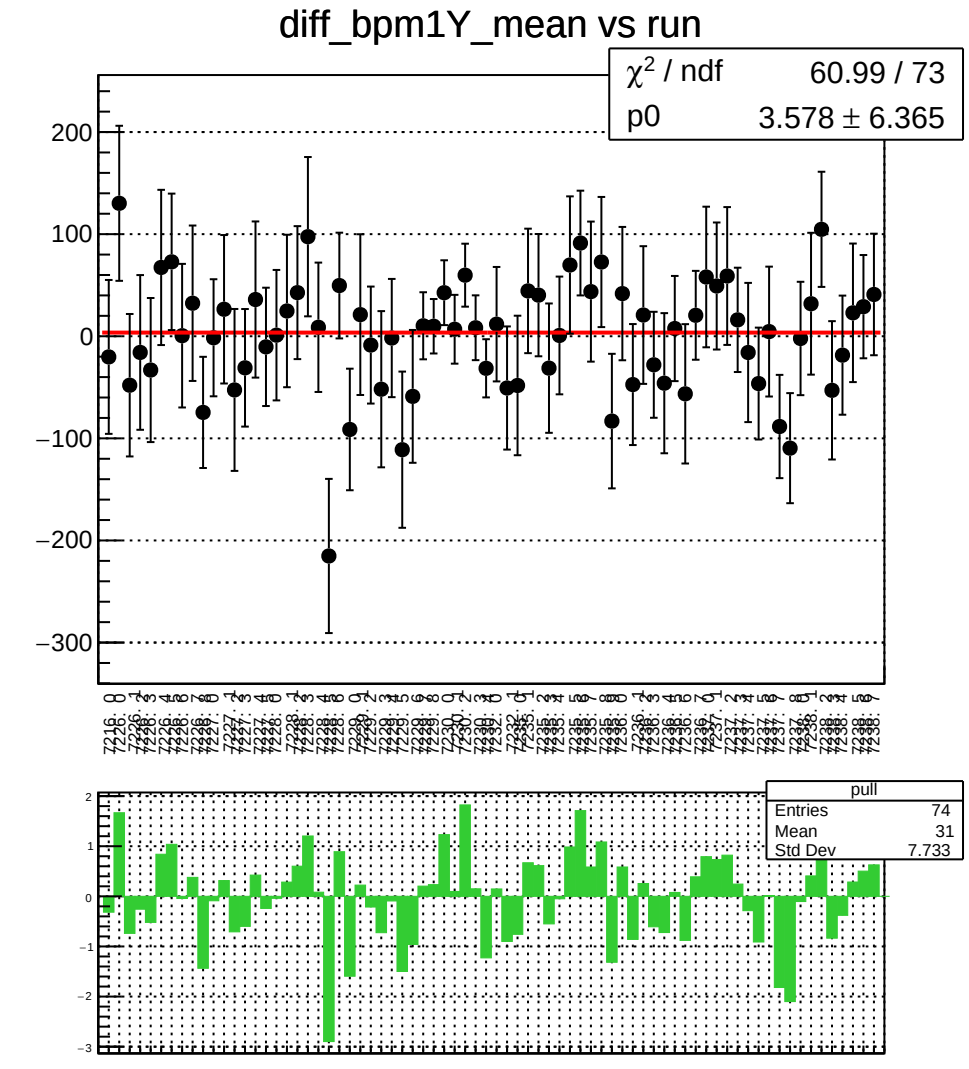

pull1D
Entries 74
Mean 0.002147
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

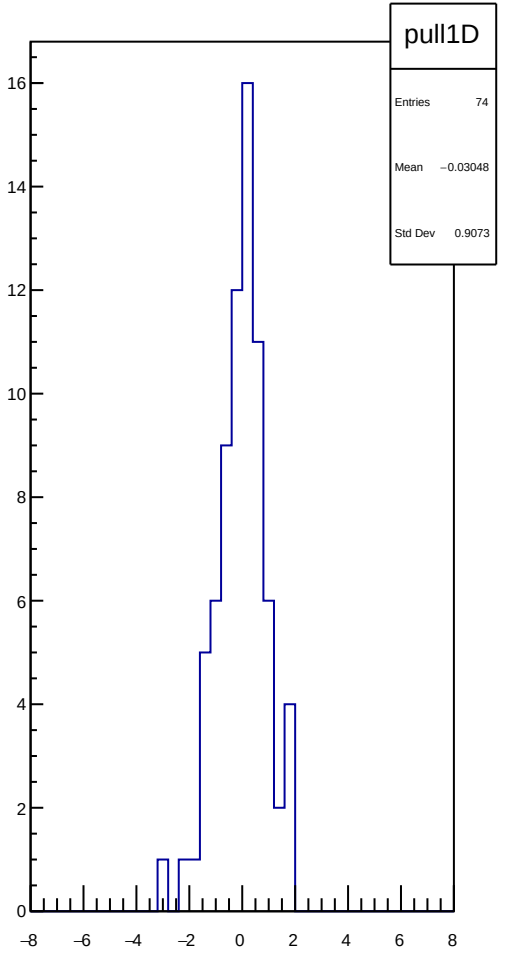

diff_bpm4ecY_rms vs run
χ^2 / ndf 2559 / 73
p0 6343 ± 5.346
7000
6800
6600
6400
6200
6000
5800
5600

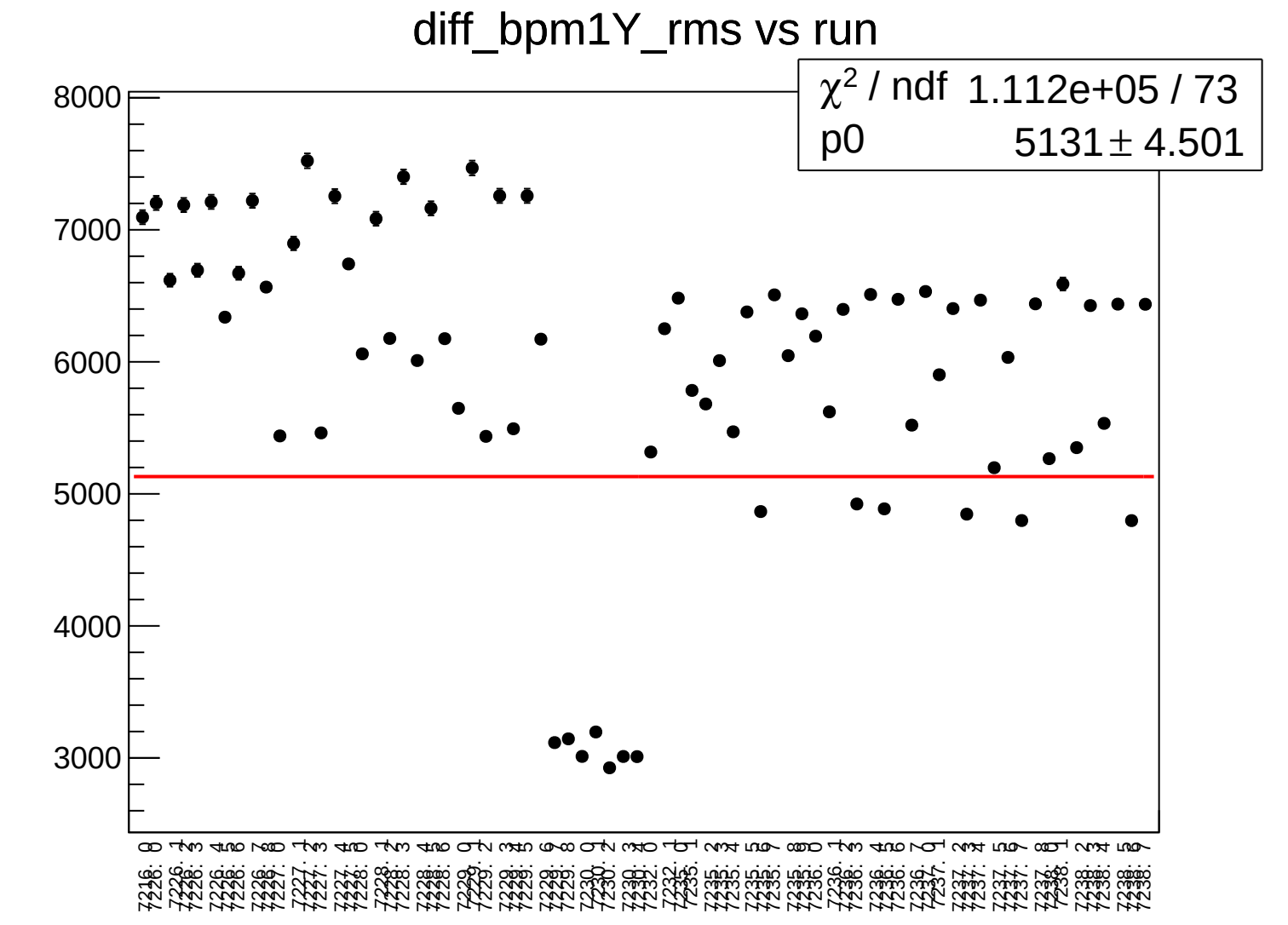

diff_bpm1X_mean vs run
χ² / ndf 65.94 / 73
p0 −23.68 ± 10.15
pull
Entries 74
Mean −512.9
Std Dev 557.9

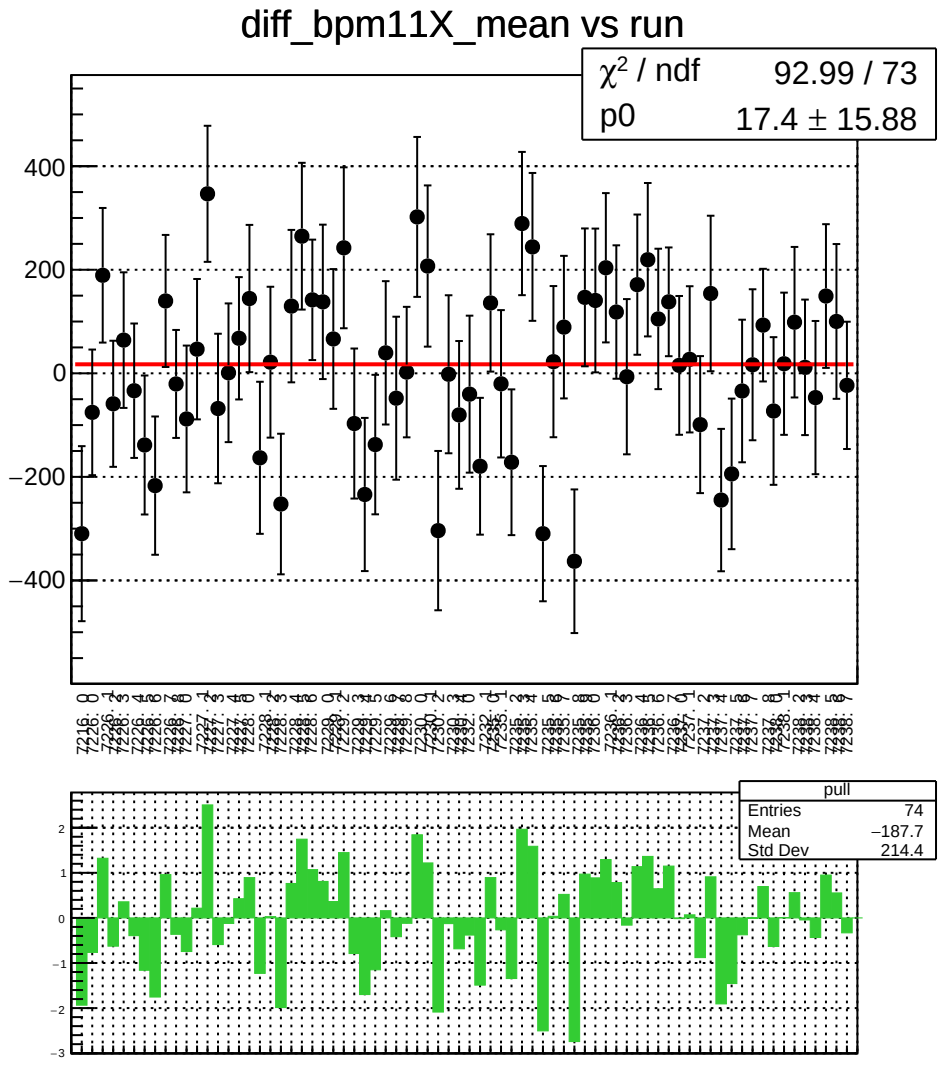

pull1D
Entries 74
Mean 0.002645
Std Dev 0.944

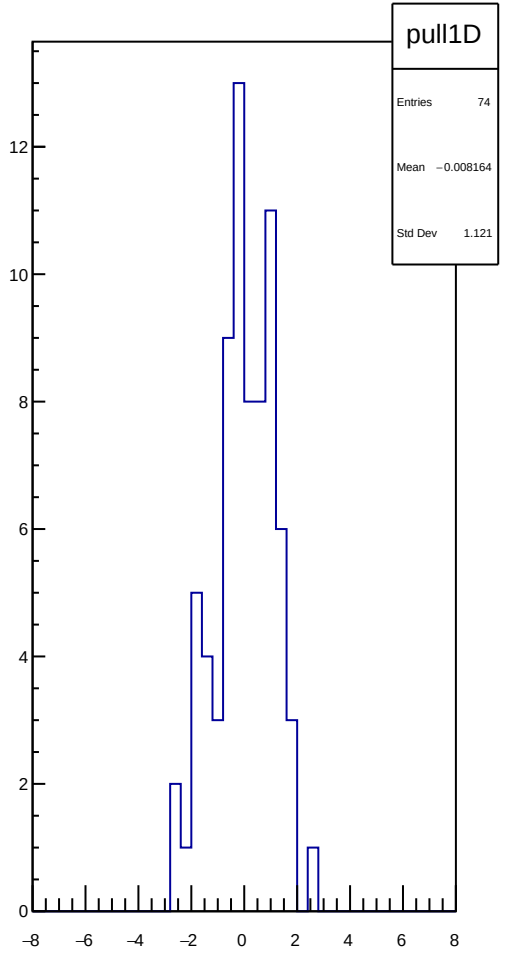

diff_bpm1X_rms vs run
χ^2 / ndf 7255 / 73
p0 8503 ± 7.177
10500
10000
9500
9000
8500
8000
7500

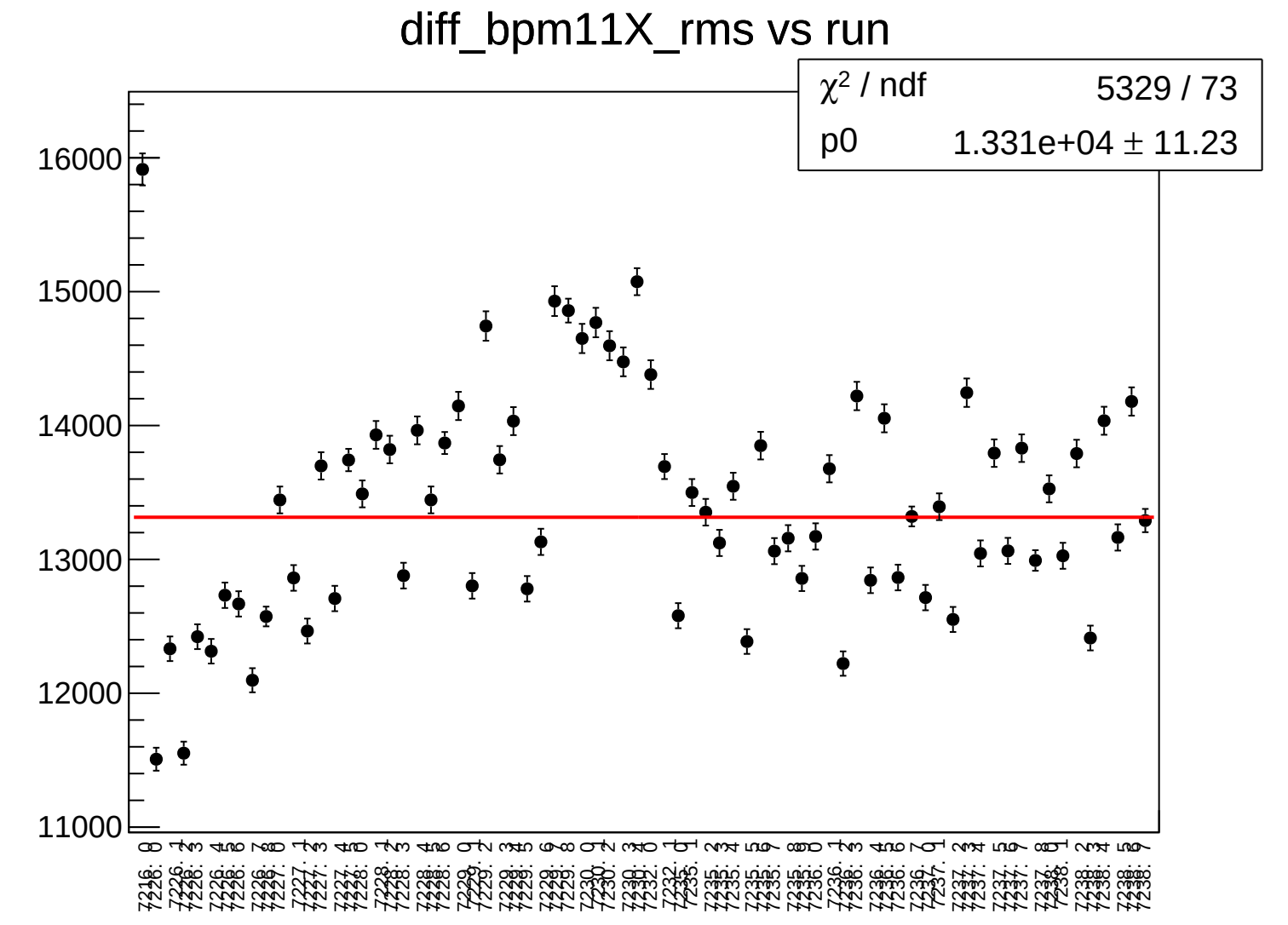

diff_bpm1Y_mean vs run
χ² / ndf 60.99 / 73
p0 3.578 ± 6.365
pull
Entries 74
Mean 31
Std Dev 7.733

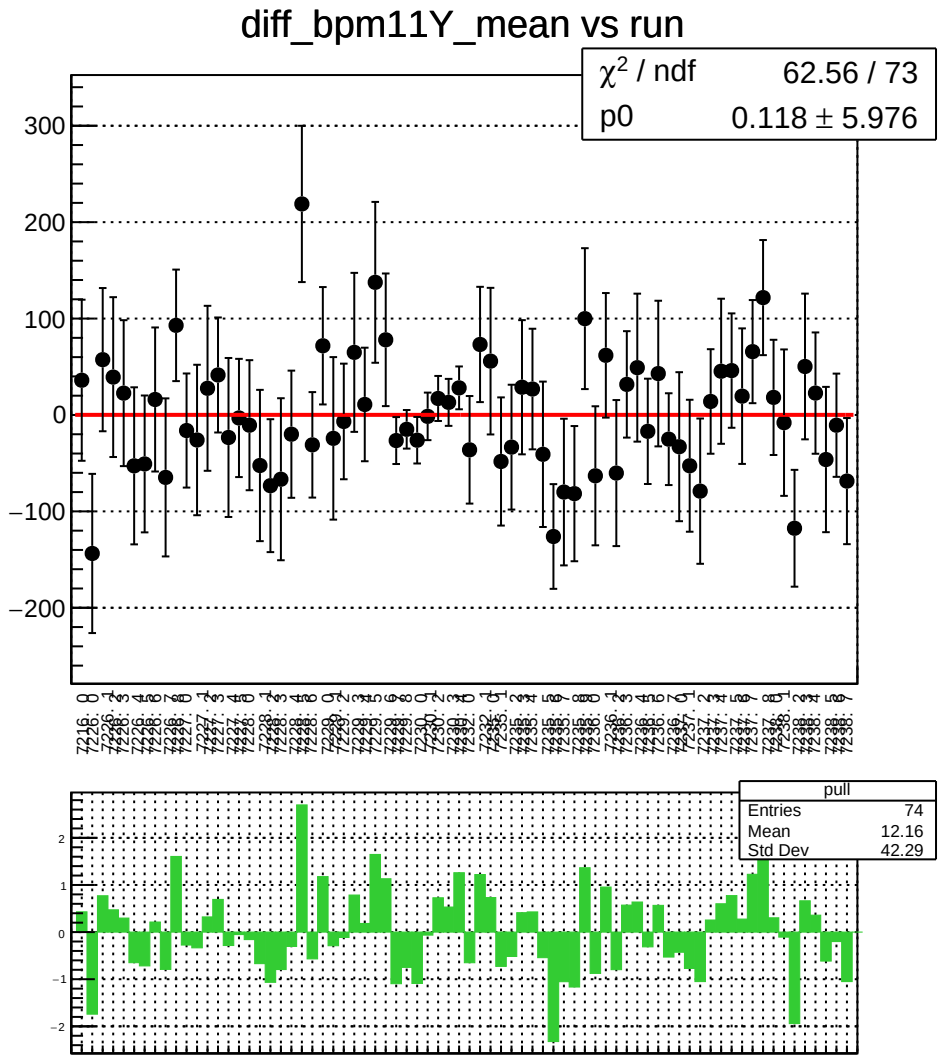

pull1D
Entries 74
Mean −0.03048
Std Dev 0.9073

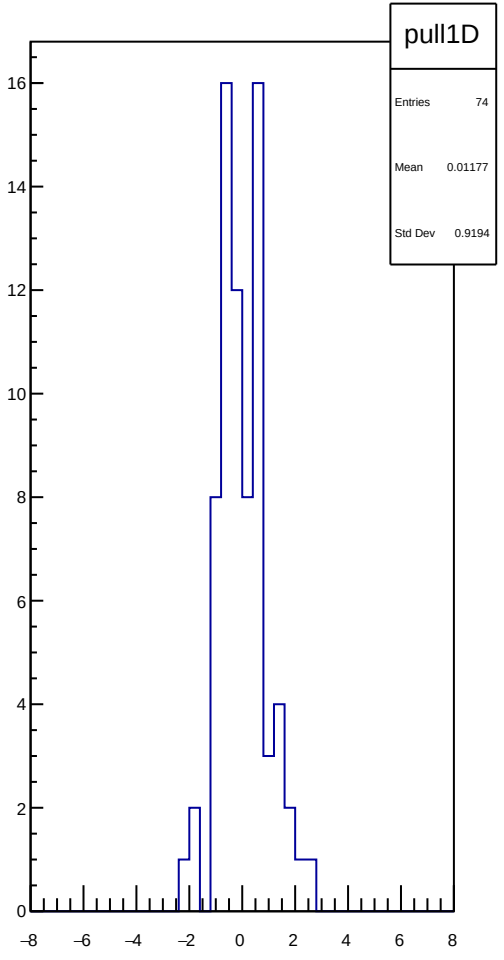

diff_bpm1Y_rms vs run
χ² / ndf 1.112e+05 / 73
p0 5131 ± 4.501
8000
7000
6000
5000
4000
3000

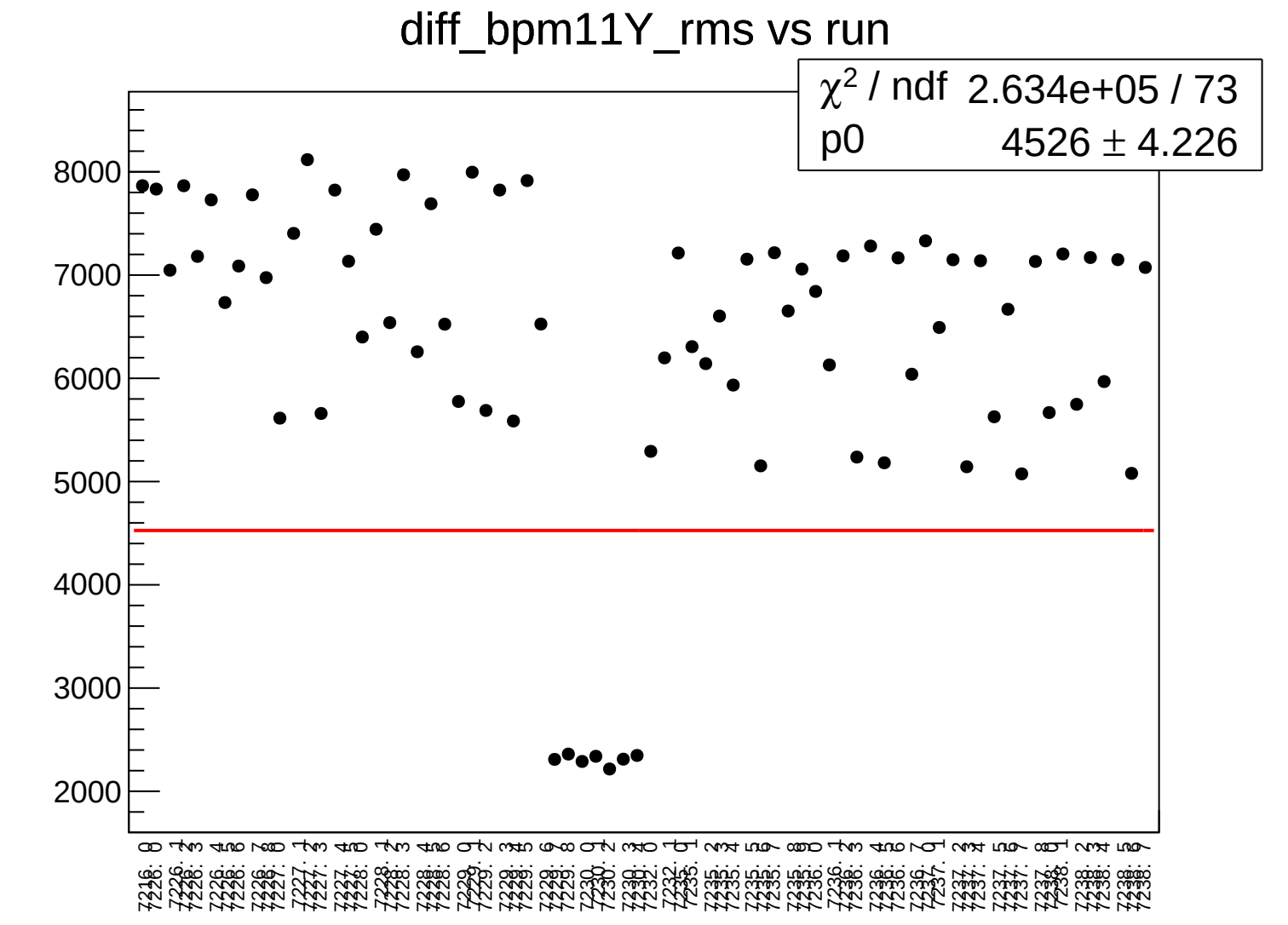

diff_bpm11X_mean vs run
χ² / ndf 92.99 / 73
p0 17.4 ± 15.88
400
200
0
−200
−400
pull
Entries 74
Mean −187.7
Std Dev 214.4
2
1
0
−1
−2
−3

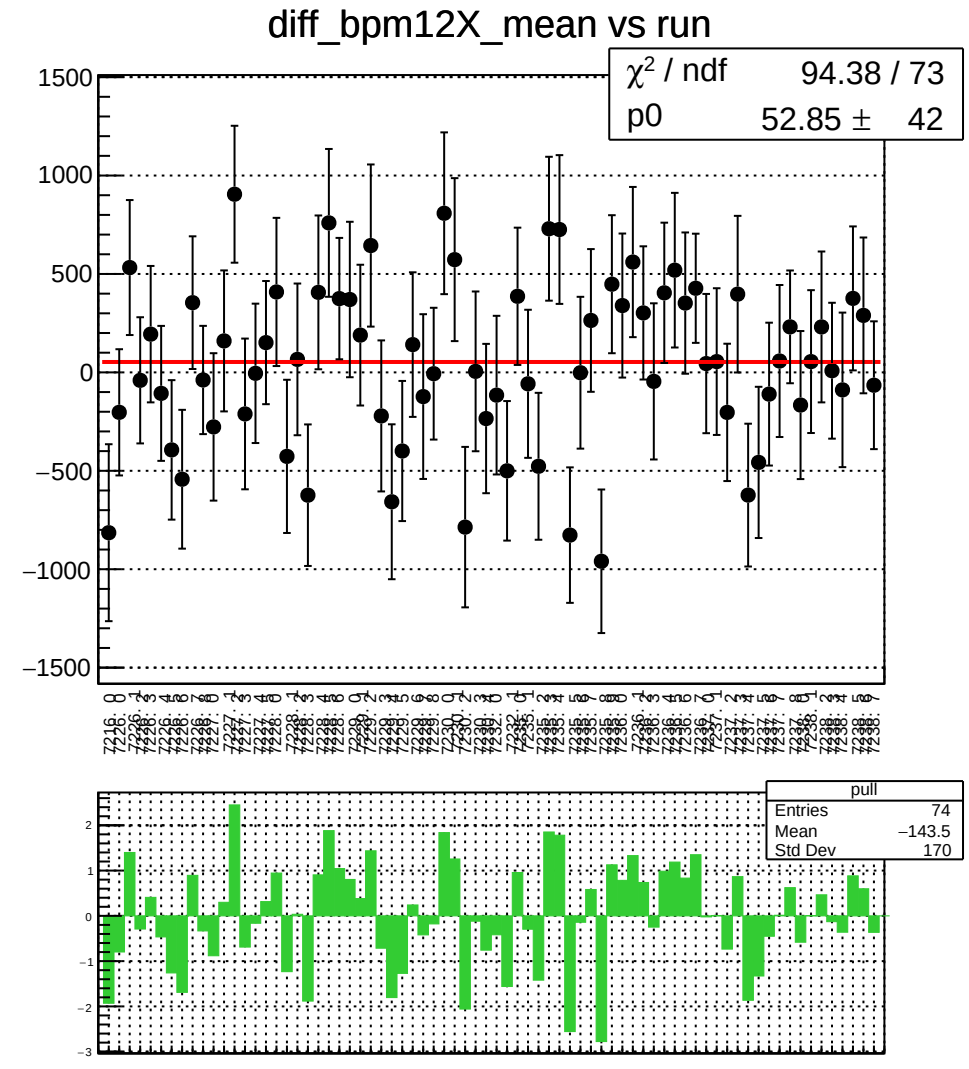

pull1D
Entries 74
Mean −0.008164
Std Dev 1.121
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

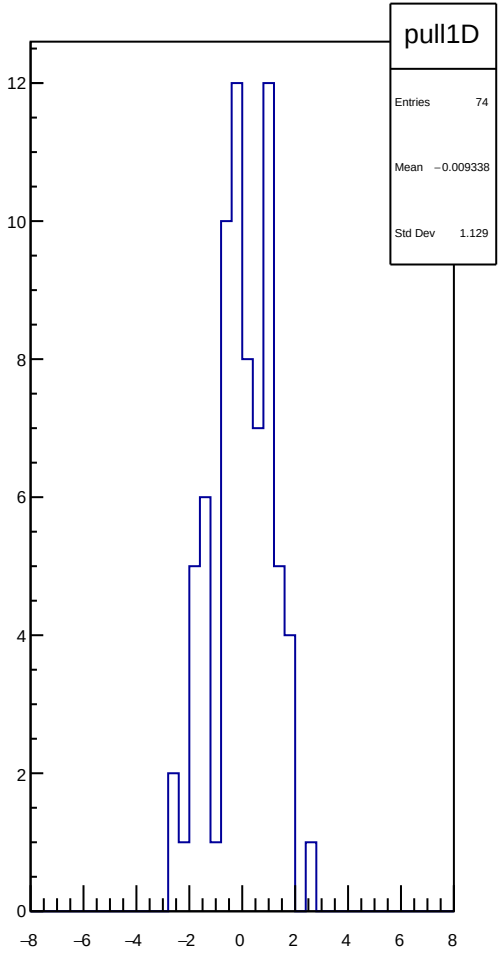

diff_bpm11X_rms vs run
χ² / ndf 5329 / 73
p0 1.331e+04 ± 11.23
16000
15000
14000
13000
12000
11000

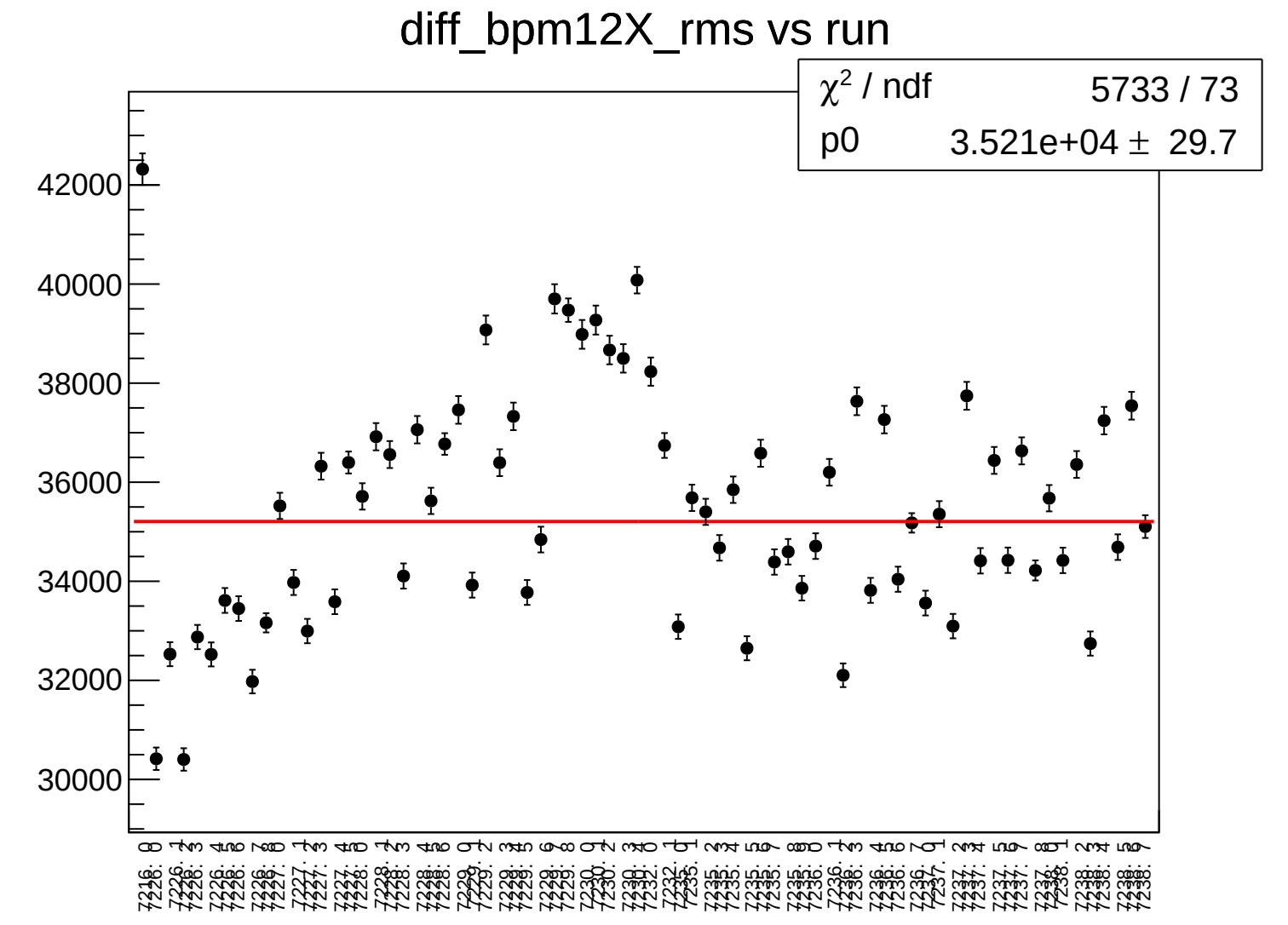

diff_bpm11Y_mean vs run
χ² / ndf 62.56 / 73
p0 0.118 ± 5.976
pull
Entries 74
Mean 12.16
Std Dev 42.29

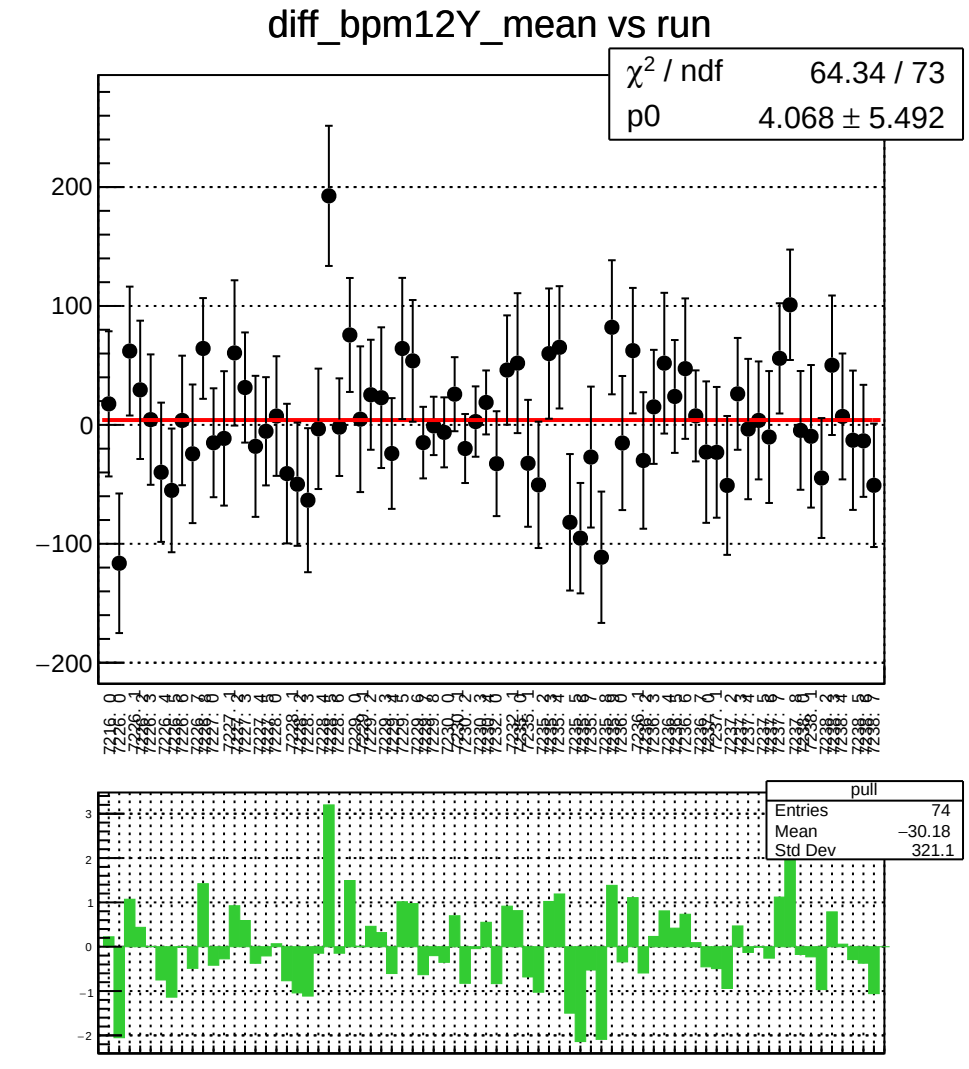

pull1D
Entries 74
Mean 0.01177
Std Dev 0.9194

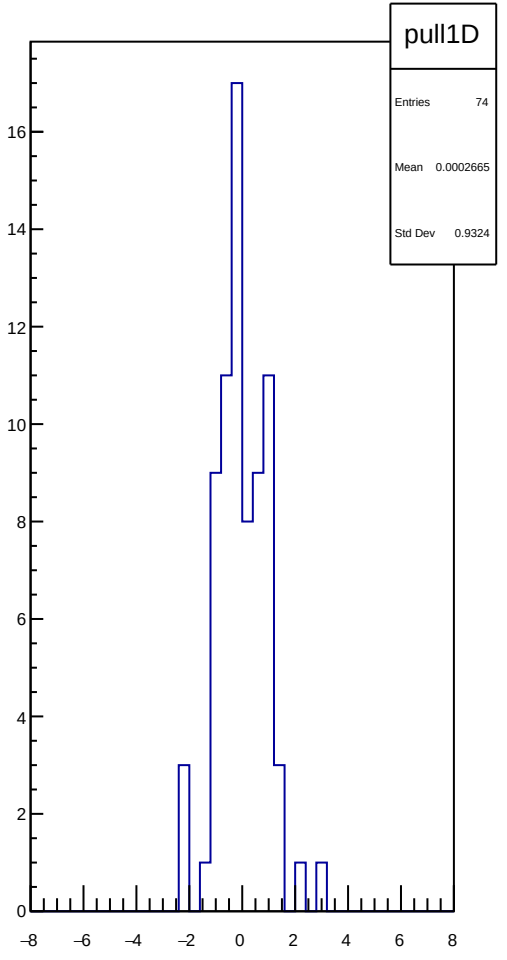

diff_bpm11Y_rms vs run
χ² / ndf 2.634e+05 / 73
p0 4526 ± 4.226
8000
7000
6000
5000
4000
3000
2000

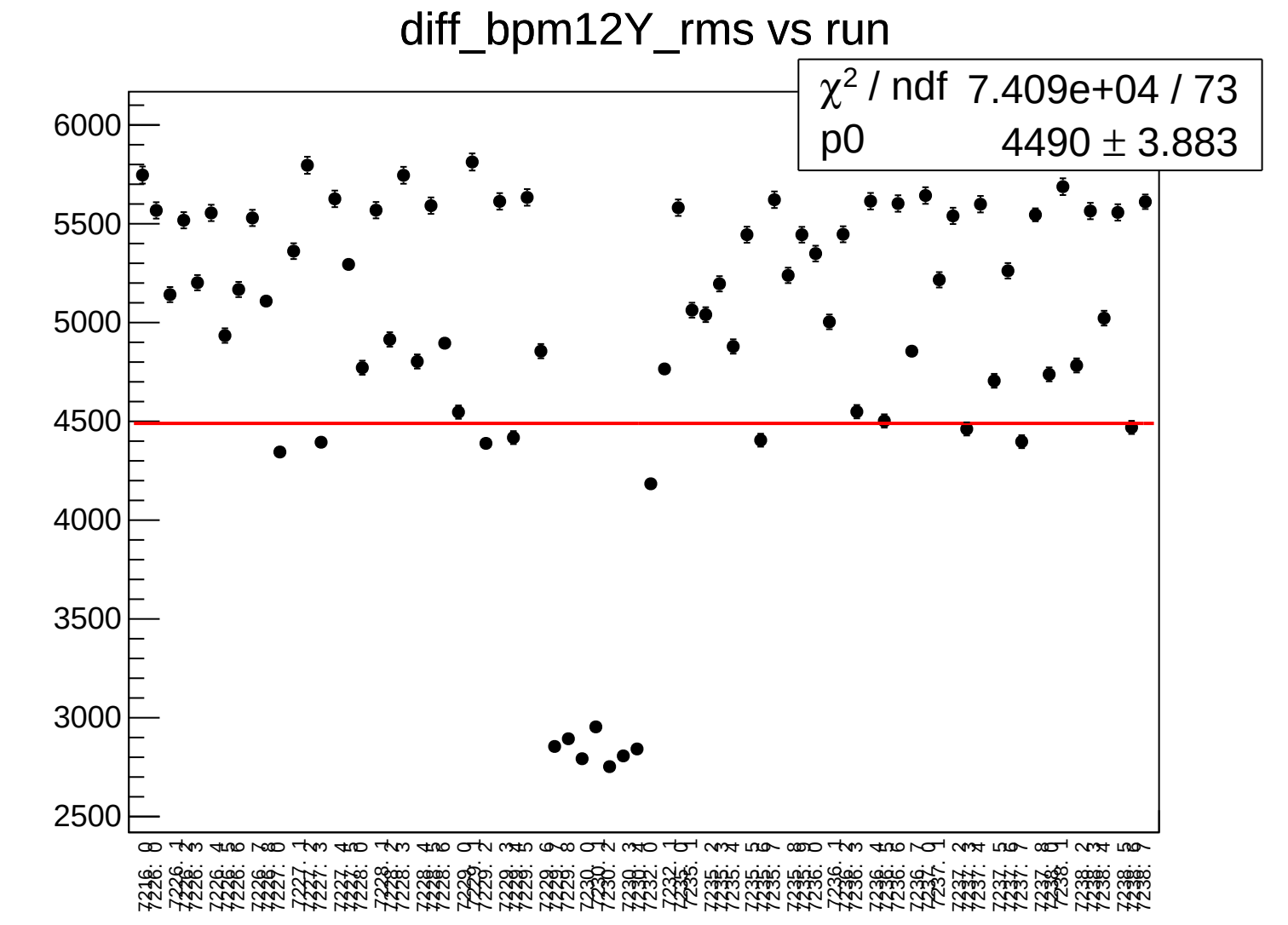

diff_bpm12X_mean vs run
χ² / ndf 94.38 / 73
p0 52.85 ± 42
pull
Entries 74
Mean −143.5
Std Dev 170

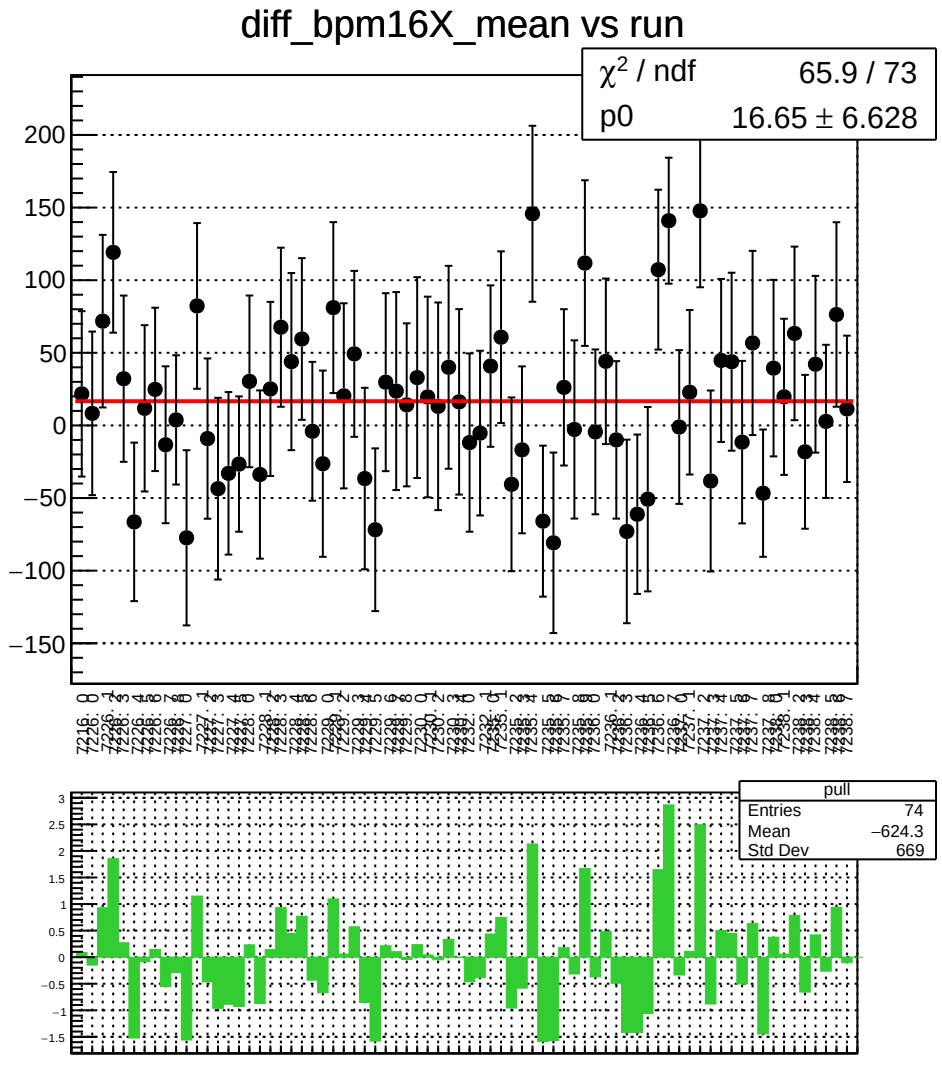

pull1D
Entries 74
Mean −0.009338
Std Dev 1.129

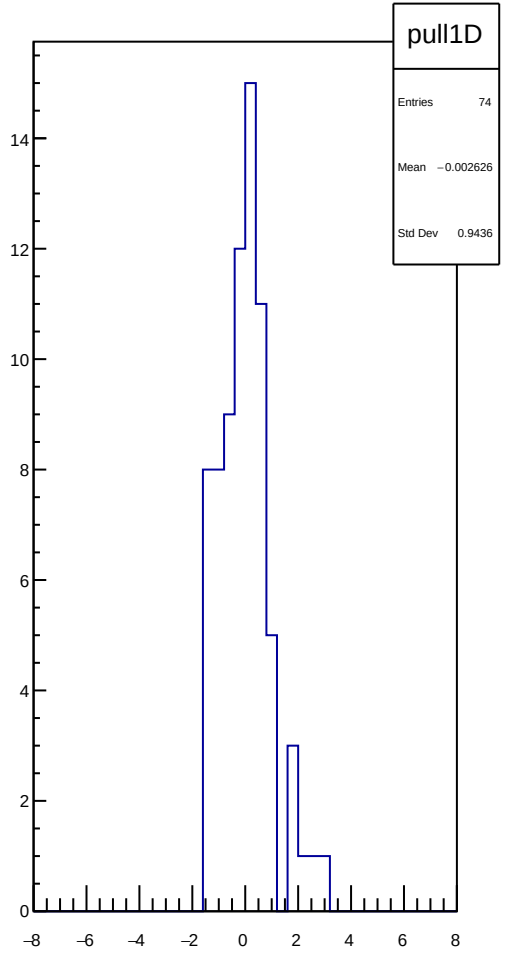

diff_bpm12X_rms vs run
χ^2 / ndf 5733 / 73
p0 3.521e+04 ± 29.7
42000
40000
38000
36000
34000
32000
30000

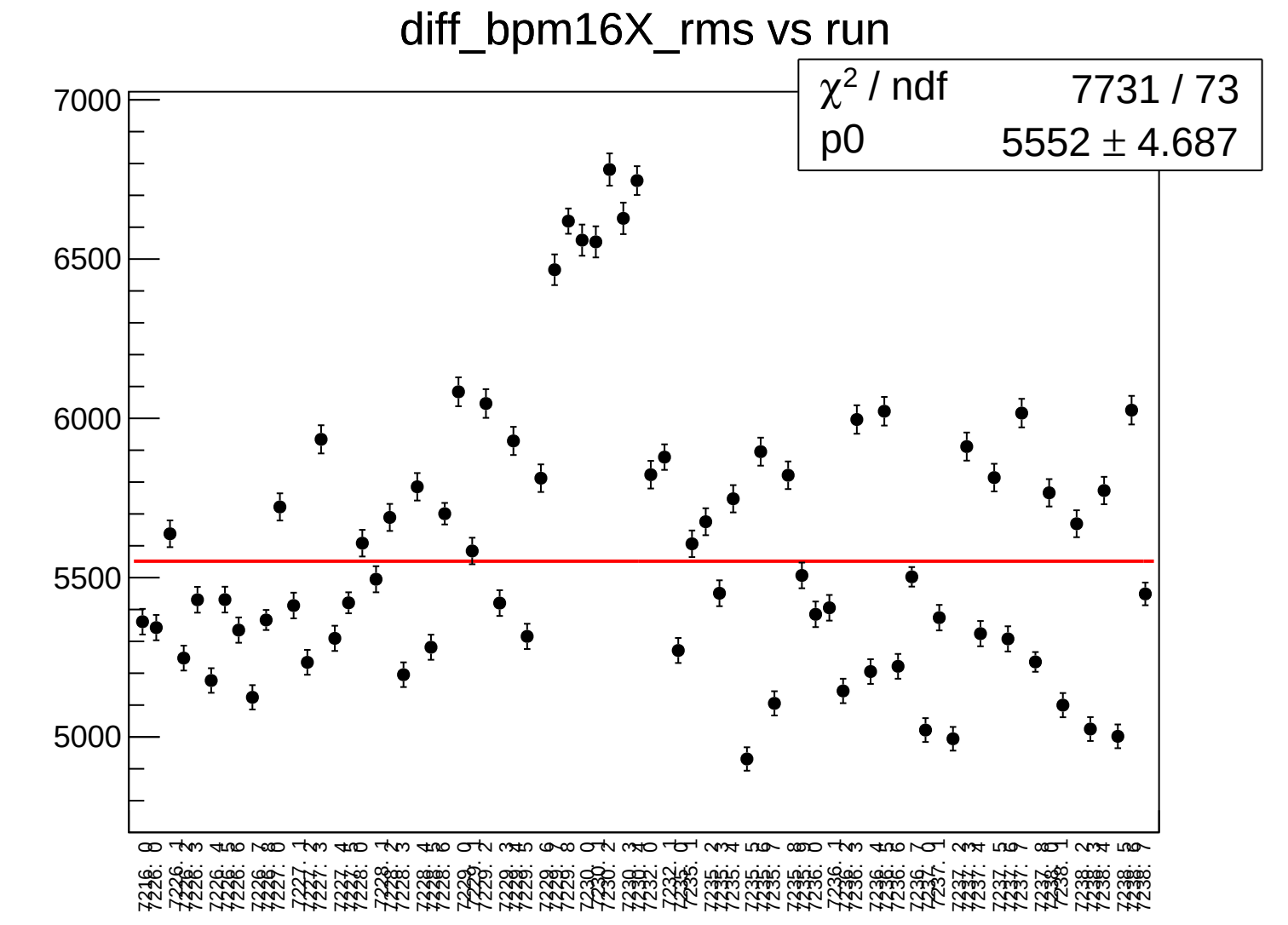

diff_bpm12Y_mean vs run
χ² / ndf 64.34 / 73
p0 4.068 ± 5.492
200
100
0
−100
−200
pull
Entries 74
Mean −30.18
Std Dev 321.1
3
2
1
0
−1
−2

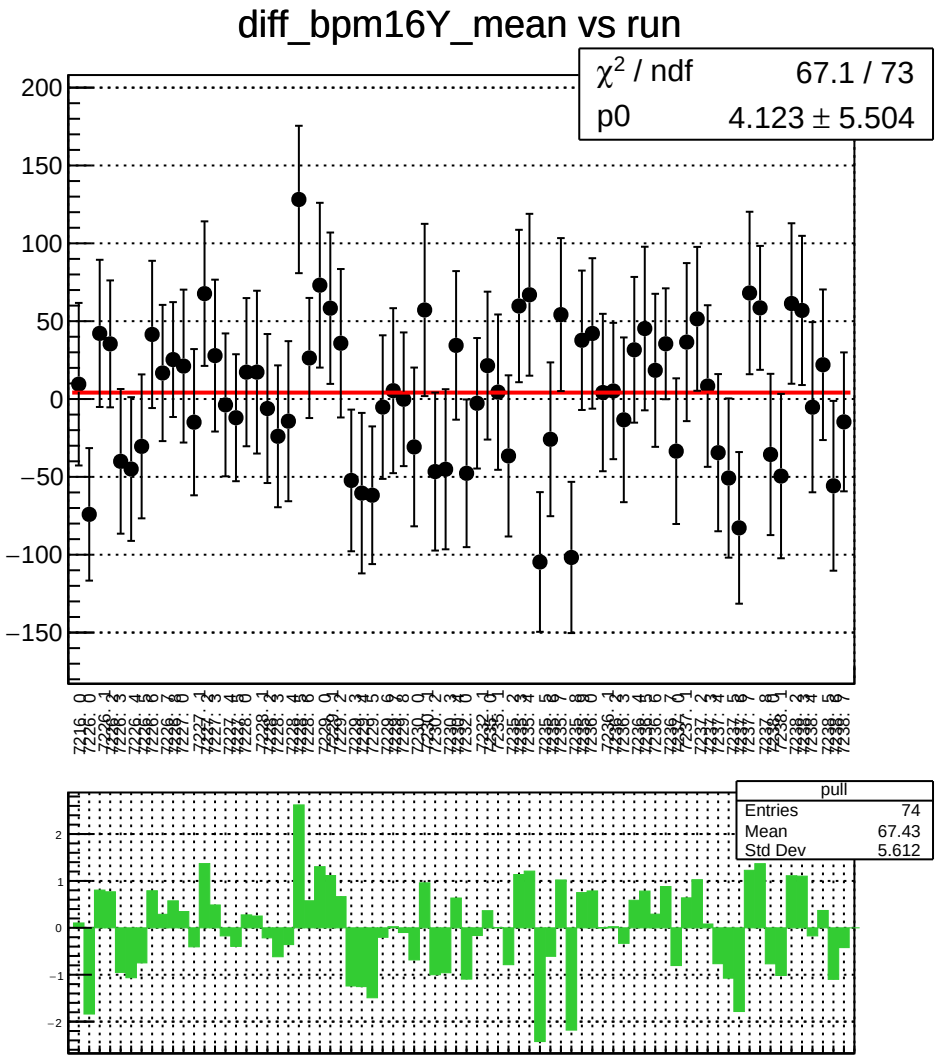

pull1D
Entries 74
Mean 0.0002665
Std Dev 0.9324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

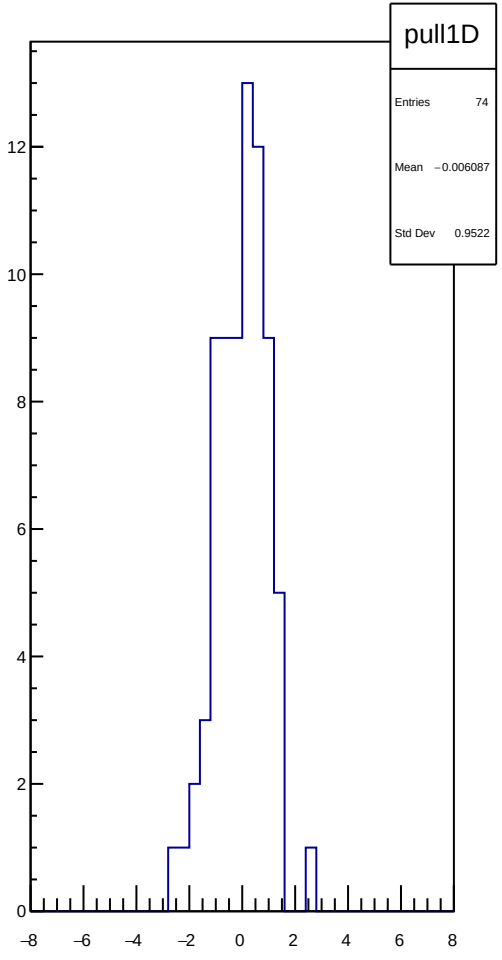

diff_bpm12Y_rms vs run
χ² / ndf 7.409e+04 / 73
p0 4490 ± 3.883
6000
5500
5000
4500
4000
3500
3000
2500

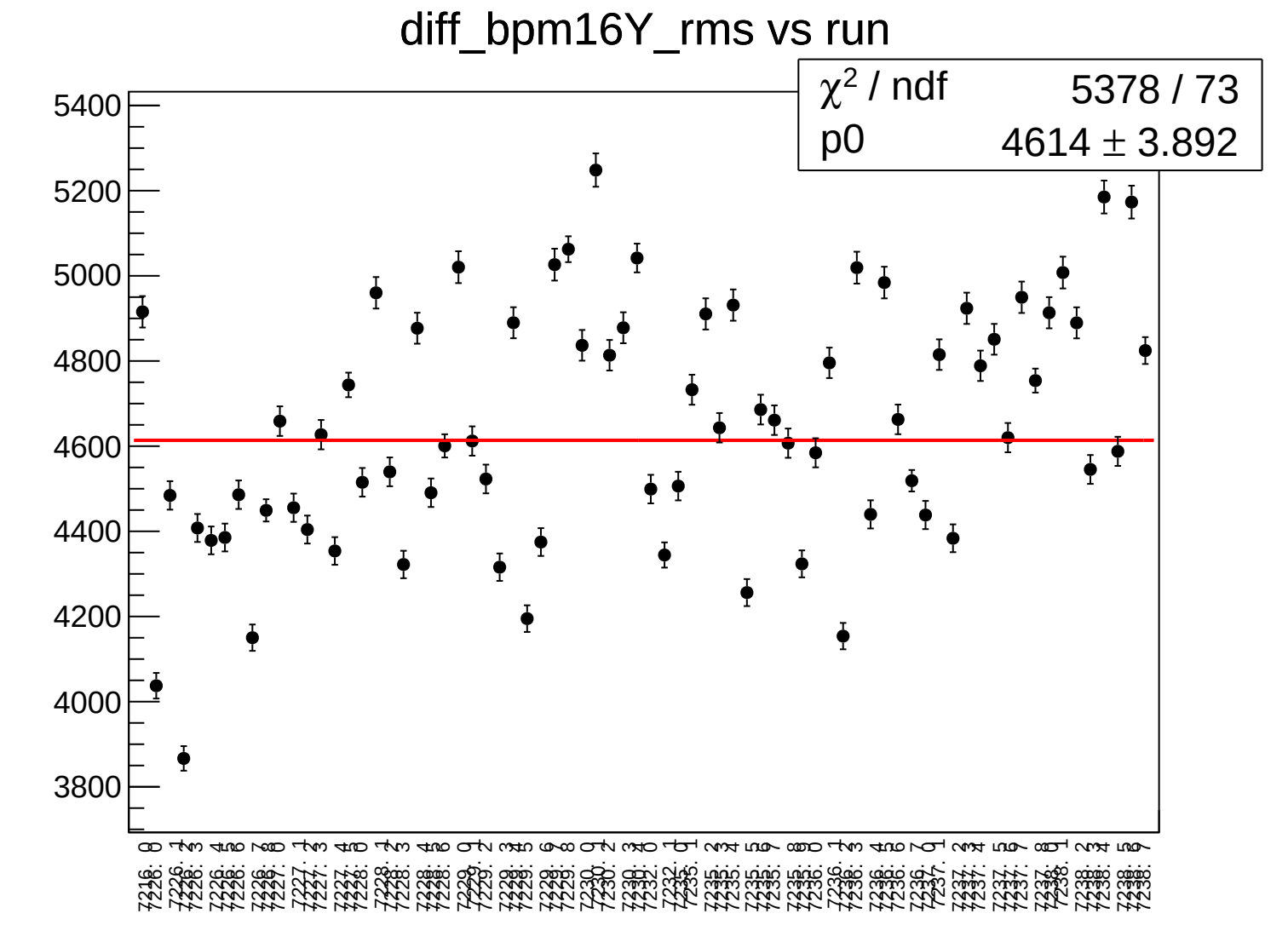

diff_bpm16X_mean vs run
χ² / ndf 65.9 / 73
p0 16.65 ± 6.628
pull
Entries 74
Mean −624.3
Std Dev 669

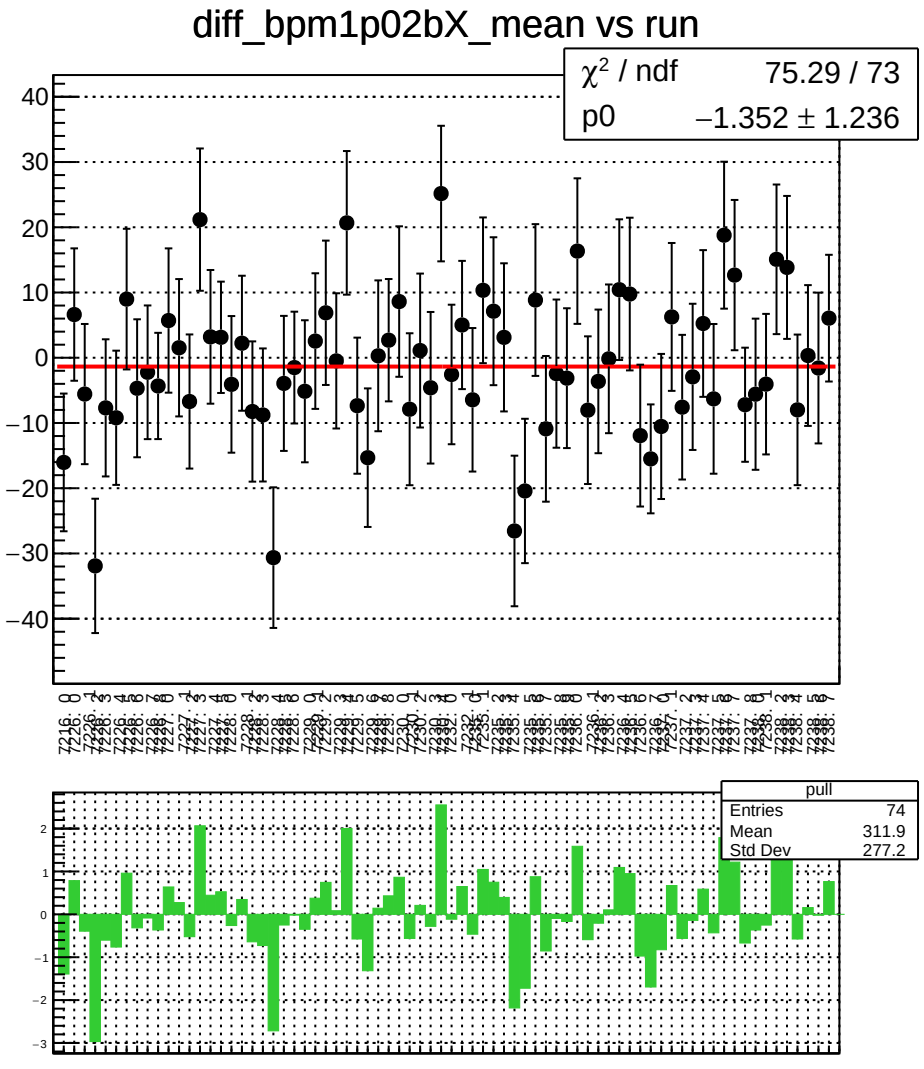

pull1D
Entries 74
Mean −0.002626
Std Dev 0.9436

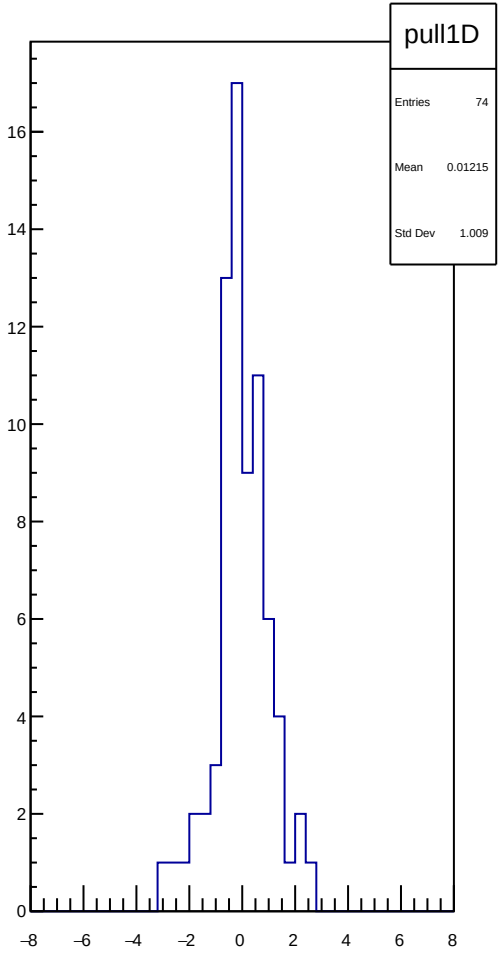

diff_bpm16X_rms vs run
χ^2 / ndf 7731 / 73
p0 5552 ± 4.687
7000
6500
6000
5500
5000

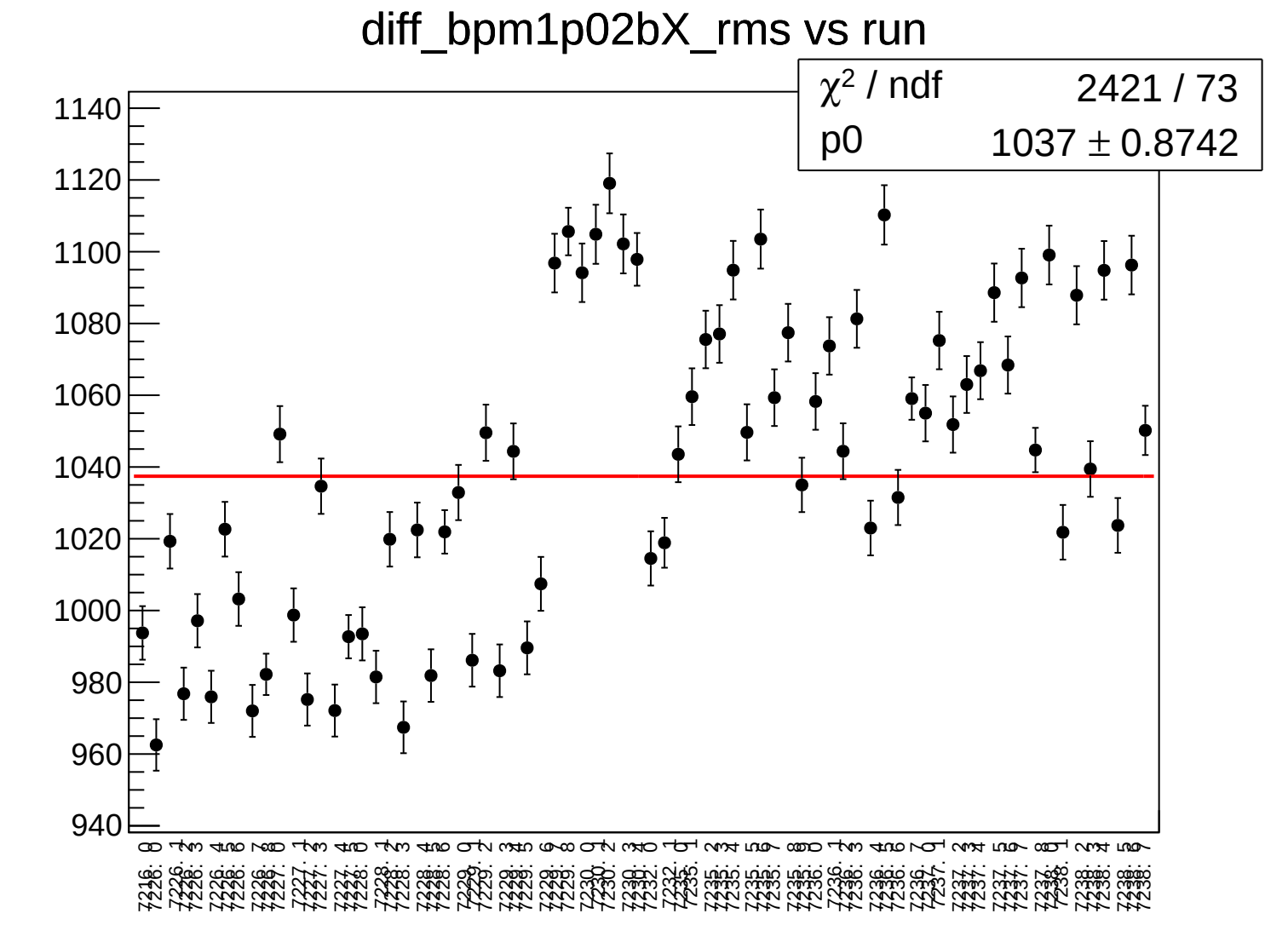

diff_bpm16Y_mean vs run
χ² / ndf 67.1 / 73
p0 4.123 ± 5.504
pull
Entries 74
Mean 67.43
Std Dev 5.612

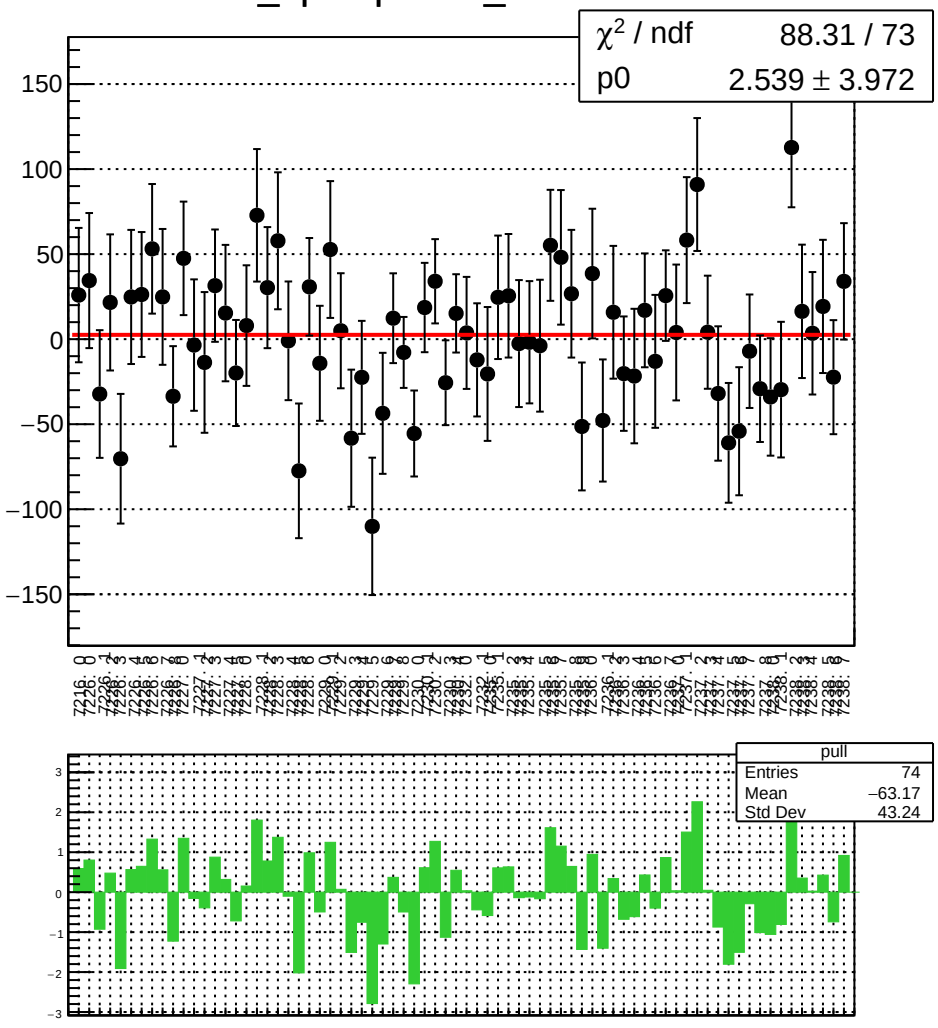

pull1D
Entries 74
Mean −0.006087
Std Dev 0.9522

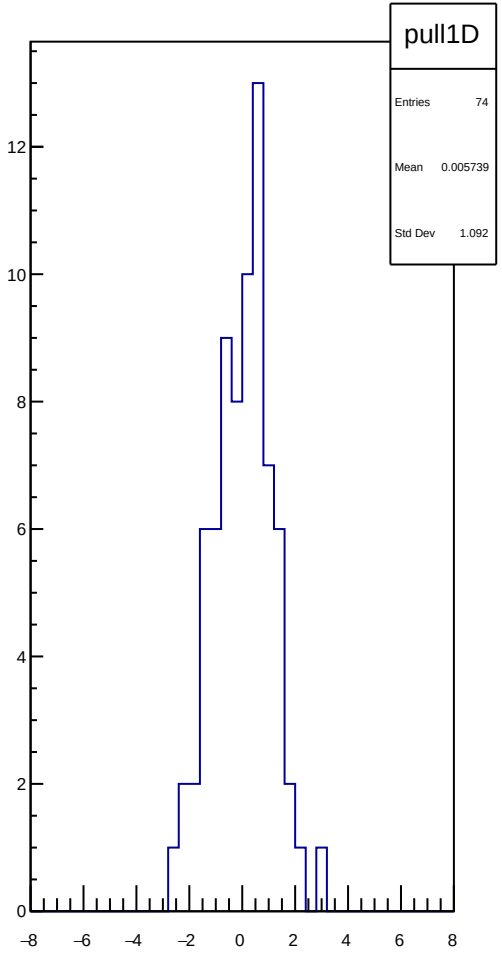

diff_bpm16Y_rms vs run
χ^2 / ndf 5378 / 73
p0 4614 ± 3.892
5400
5200
5000
4800
4600
4400
4200
4000
3800

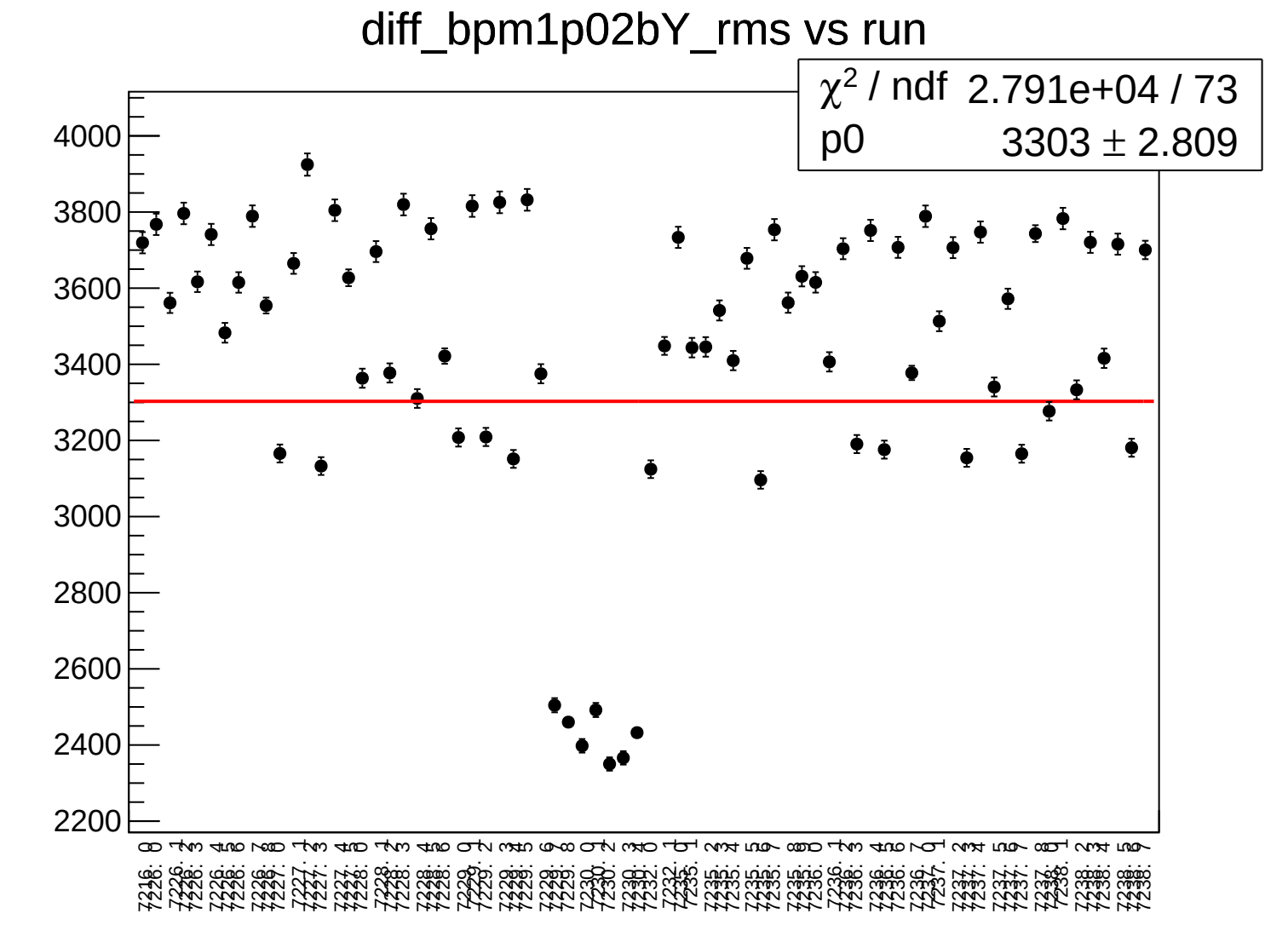

diff_bpm1p02bX_mean vs run
χ² / ndf 75.29 / 73
p0 −1.352 ± 1.236
pull
Entries 74
Mean 311.9
Std Dev 277.2

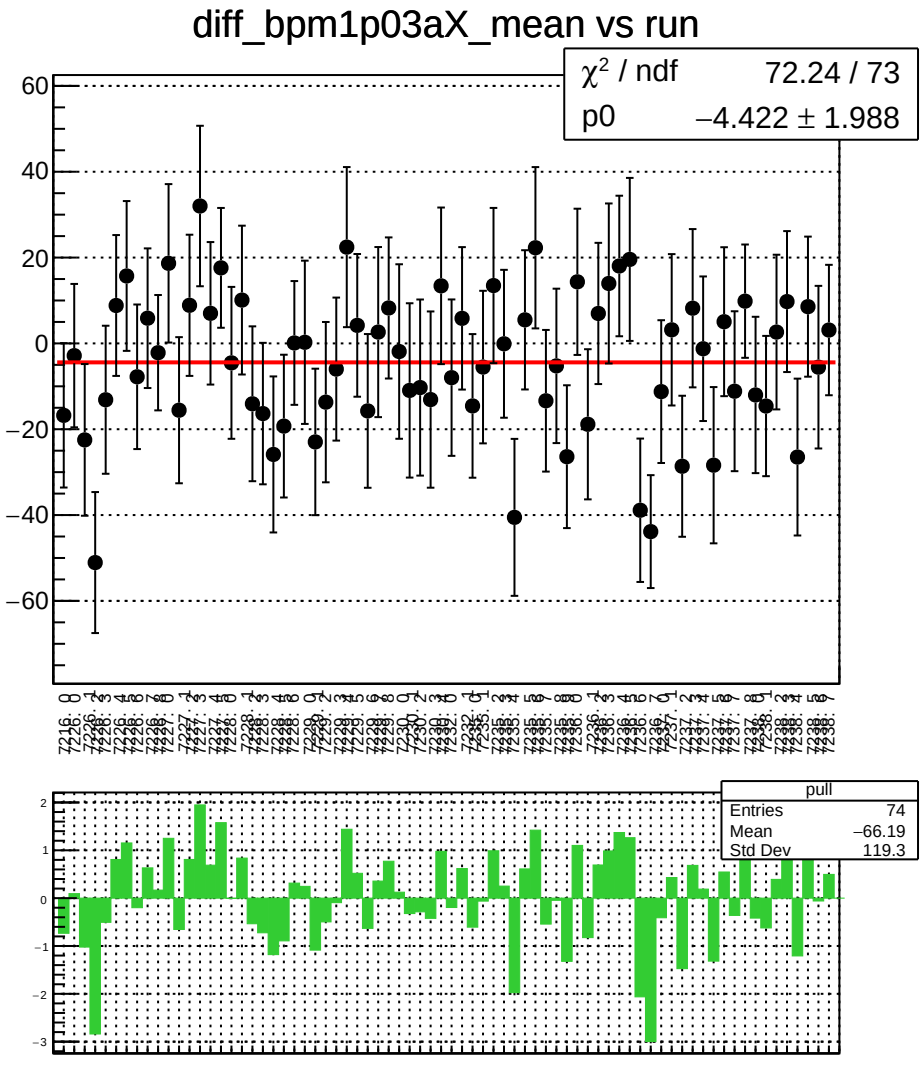

pull1D
Entries 74
Mean 0.01215
Std Dev 1.009

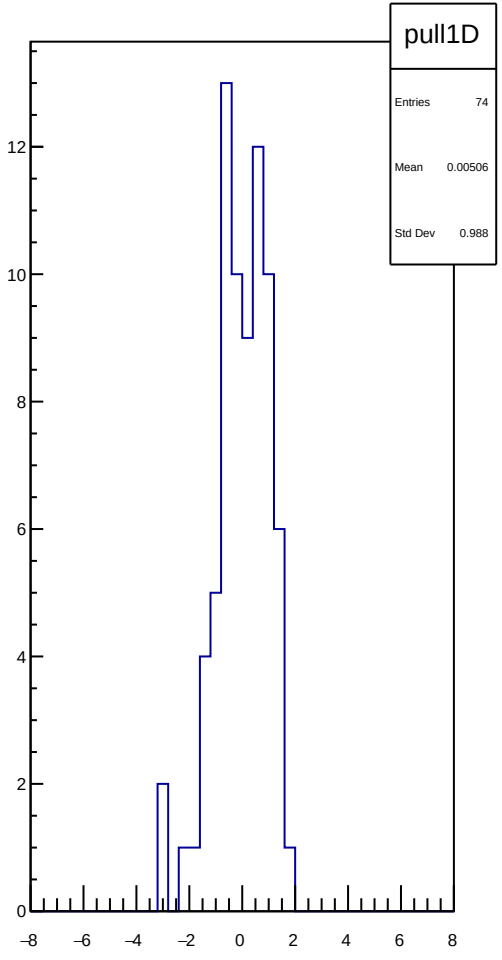

diff_bpm1p02bX_rms vs run
χ² / ndf 2421 / 73
p0 1037 ± 0.8742
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940

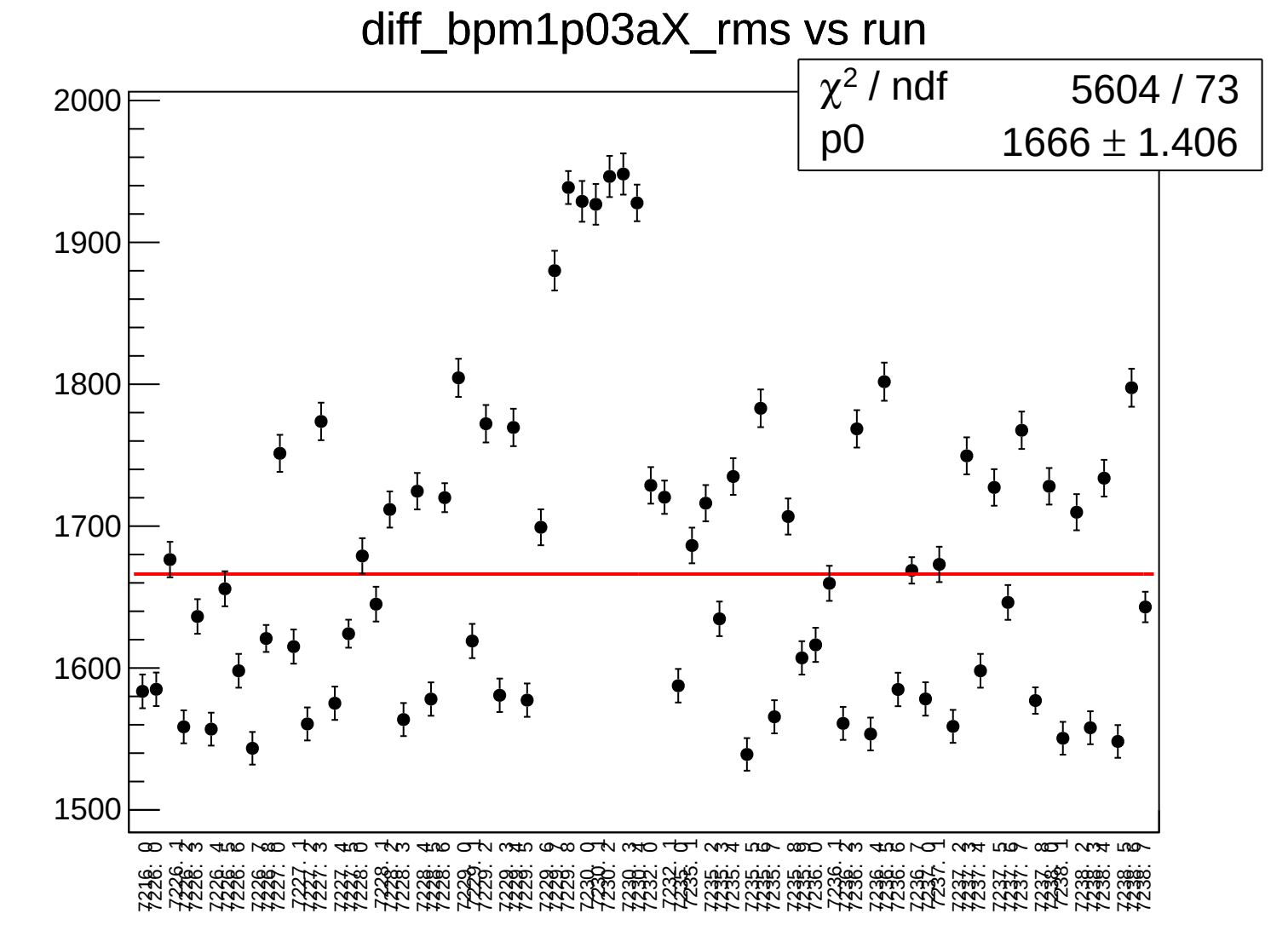

diff_bpm1p02bY_mean vs run
χ² / ndf 88.31 / 73
p0 2.539 ± 3.972
pull
Entries 74
Mean −63.17
Std Dev 43.24

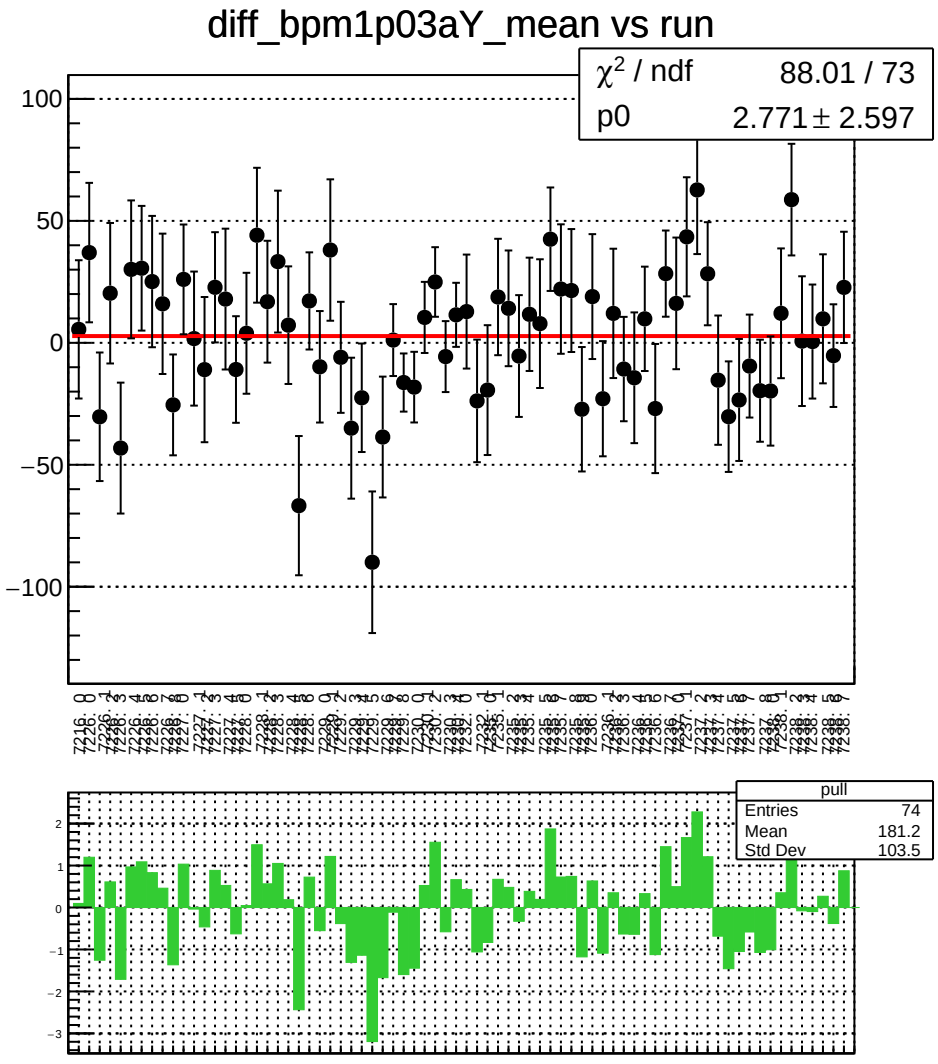

pull1D
Entries 74
Mean 0.005739
Std Dev 1.092

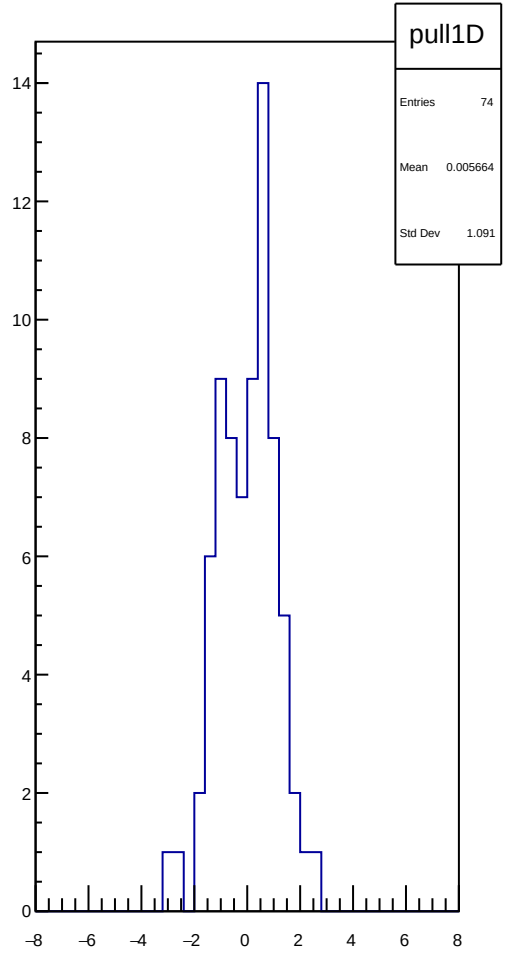

diff_bpm1p02bY_rms vs run
χ² / ndf 2.791e+04 / 73
p0 3303 ± 2.809
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

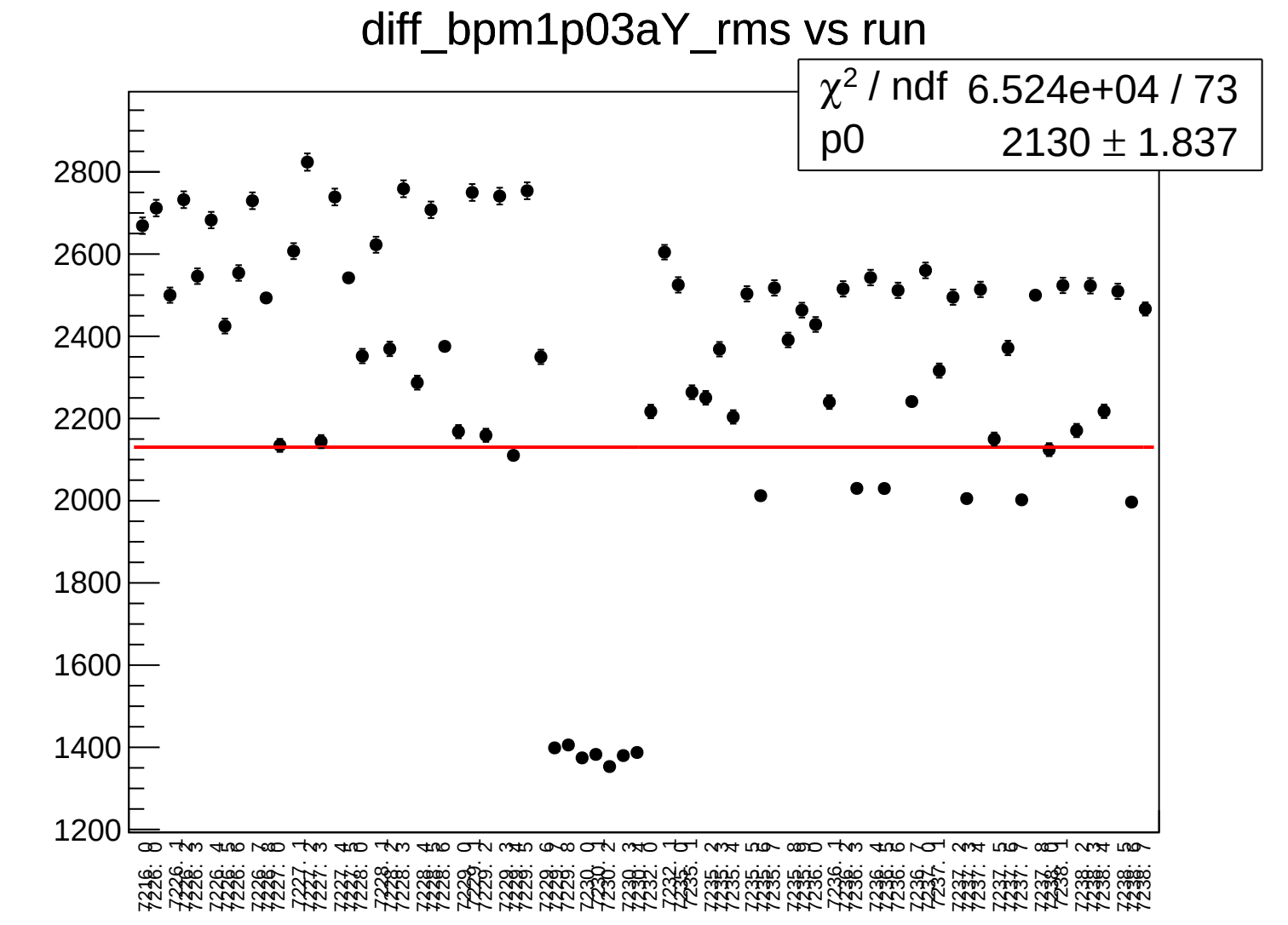

diff_bpm1p03aX_mean vs run
χ² / ndf 72.24 / 73
p0 −4.422 ± 1.988
pull
Entries 74
Mean −66.19
Std Dev 119.3

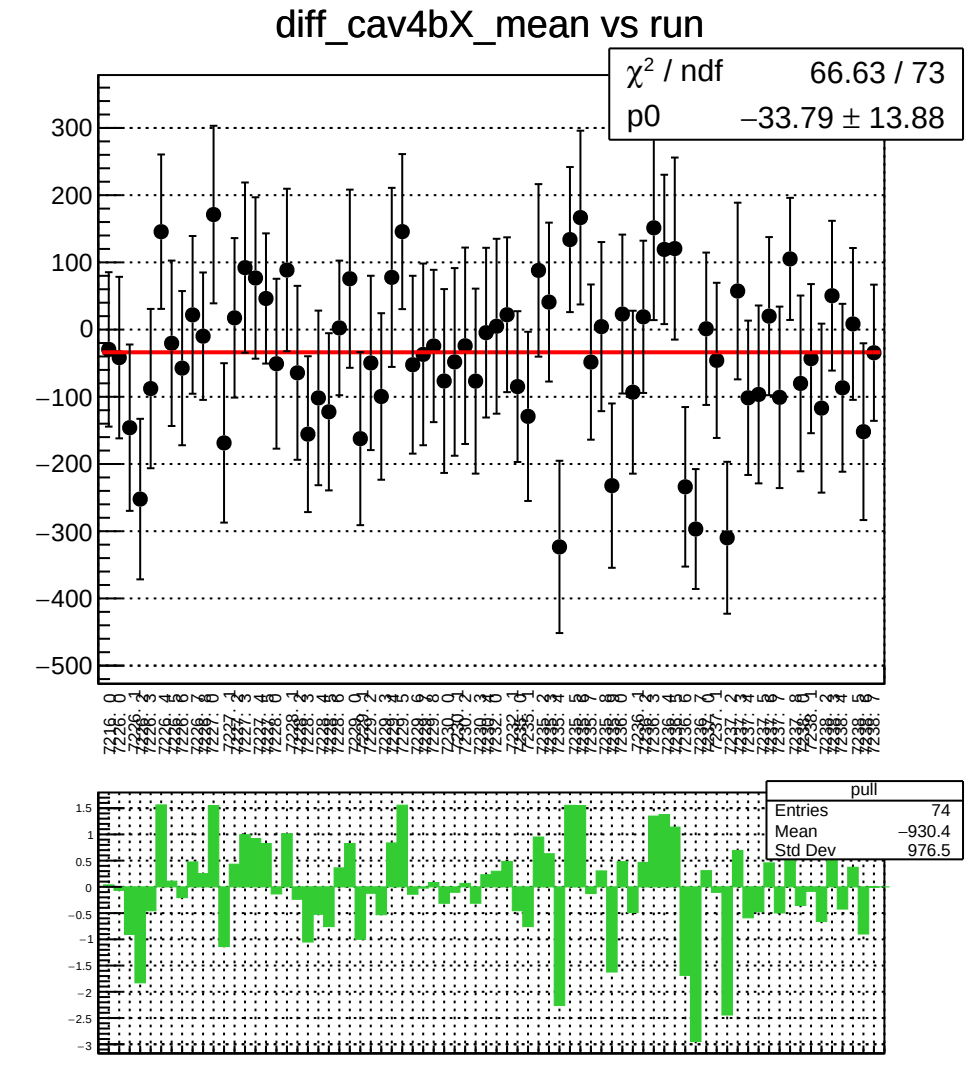

pull1D
Entries 74
Mean 0.00506
Std Dev 0.988

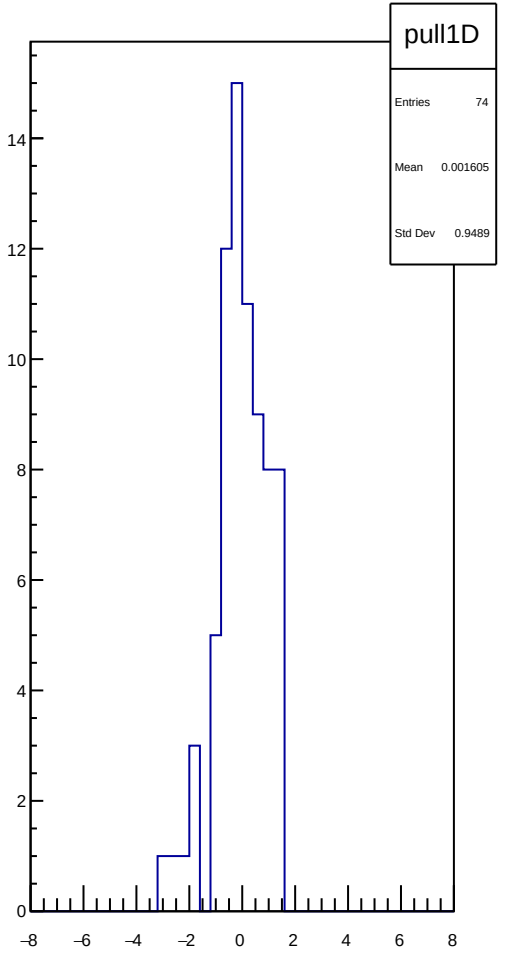

diff_bpm1p03aX_rms vs run
χ² / ndf 5604 / 73
p0 1666 ± 1.406
2000
1900
1800
1700
1600
1500

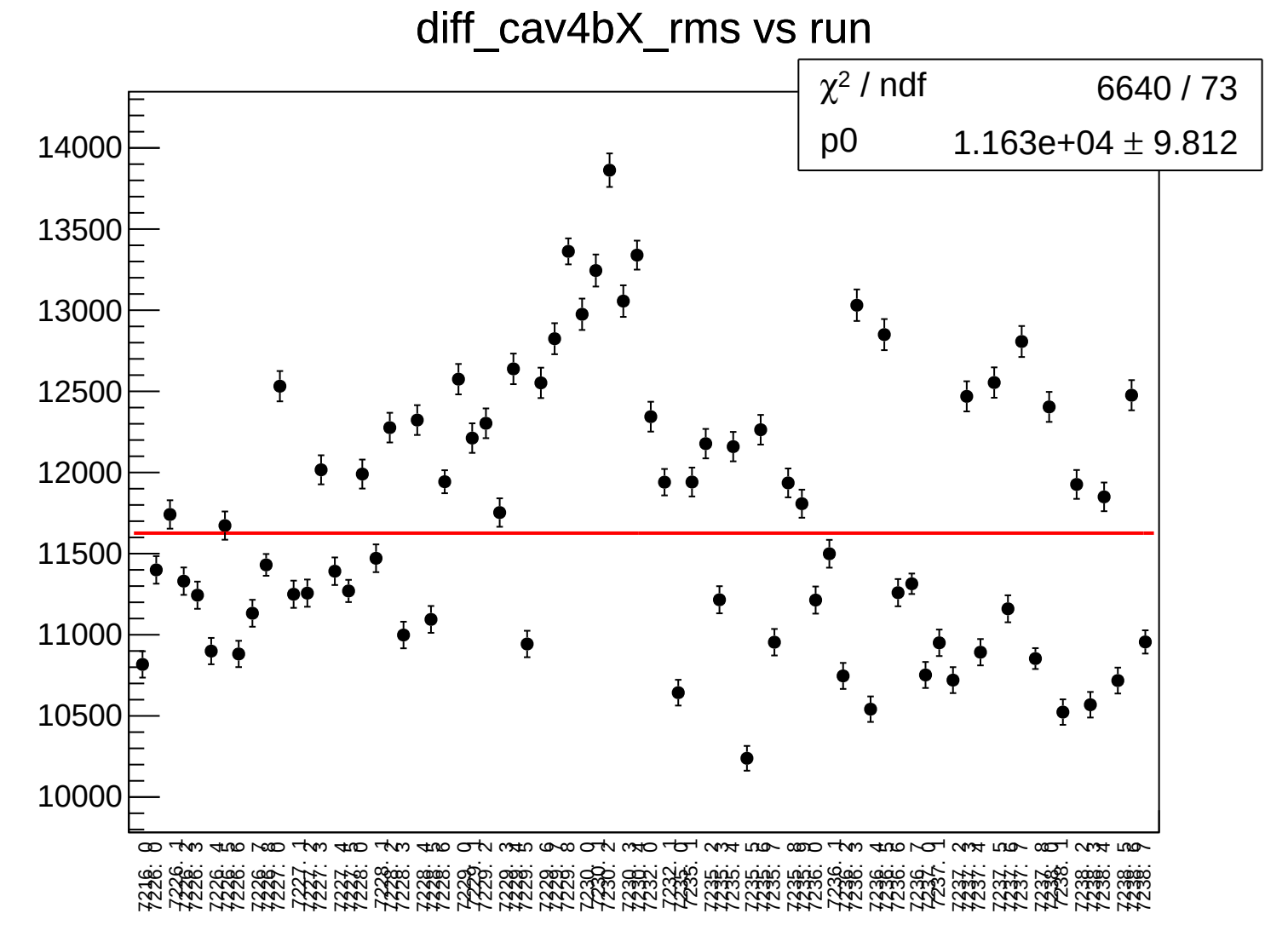

diff_bpm1p03aY_mean vs run
χ² / ndf 88.01 / 73
p0 2.771 ± 2.597
100
50
0
−50
−100
pull
Entries 74
Mean 181.2
Std Dev 103.5
2
1
0
−1
−2
−3

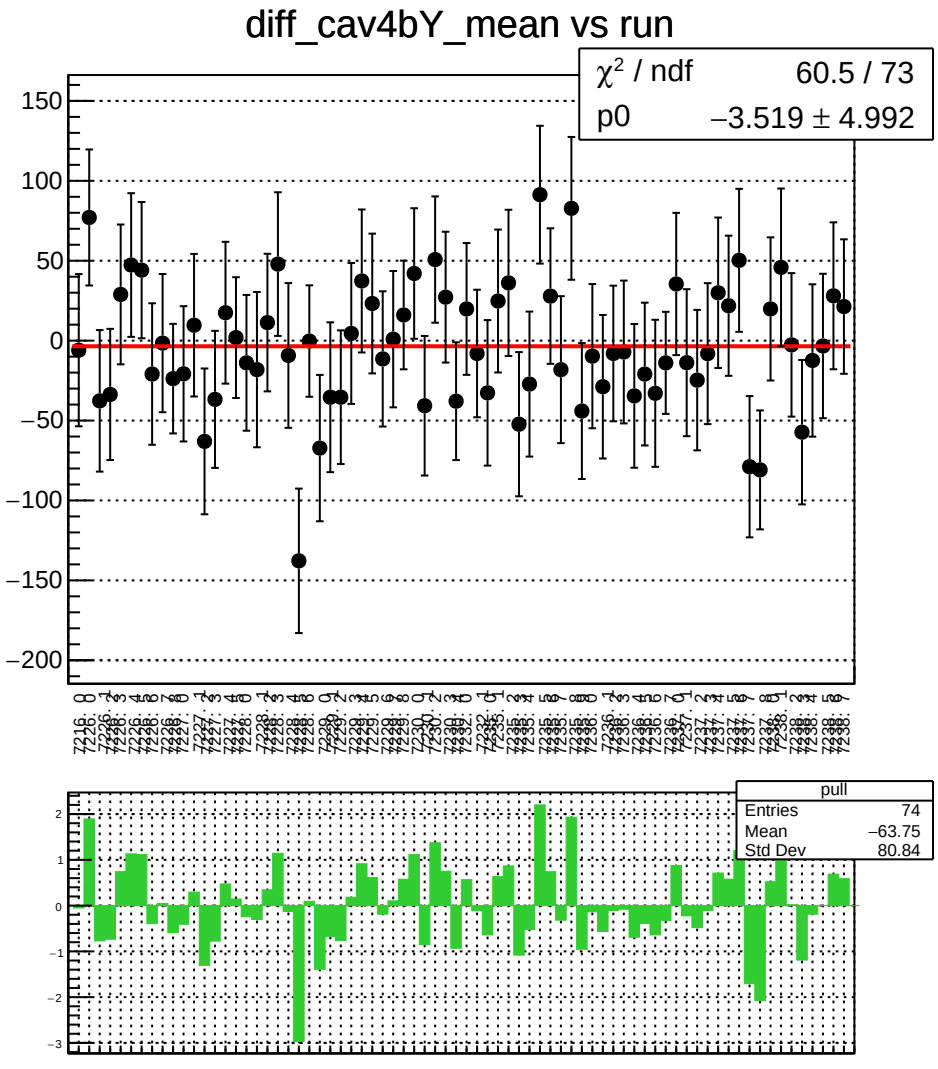

pull1D
Entries 74
Mean 0.005664
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

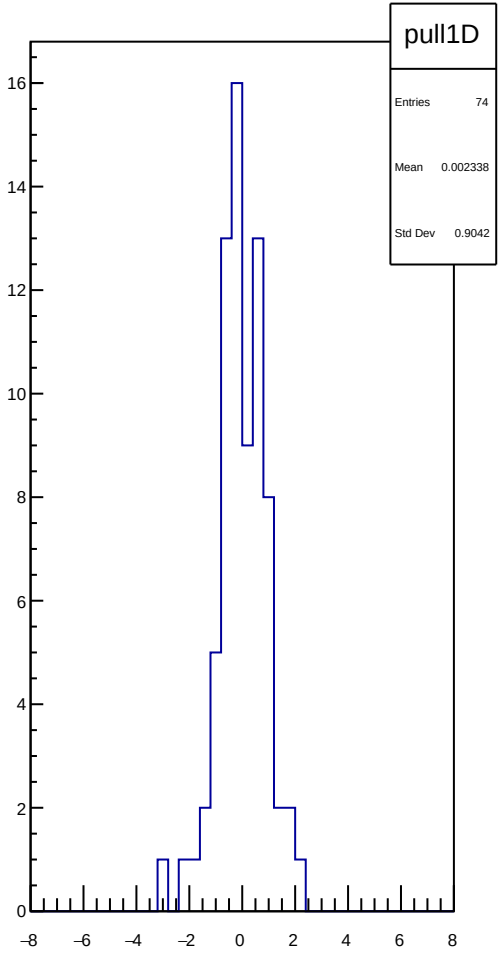

diff_bpm1p03aY_rms vs run
χ² / ndf 6.524e+04 / 73
p0 2130 ± 1.837
2800
2600
2400
2200
2000
1800
1600
1400
1200

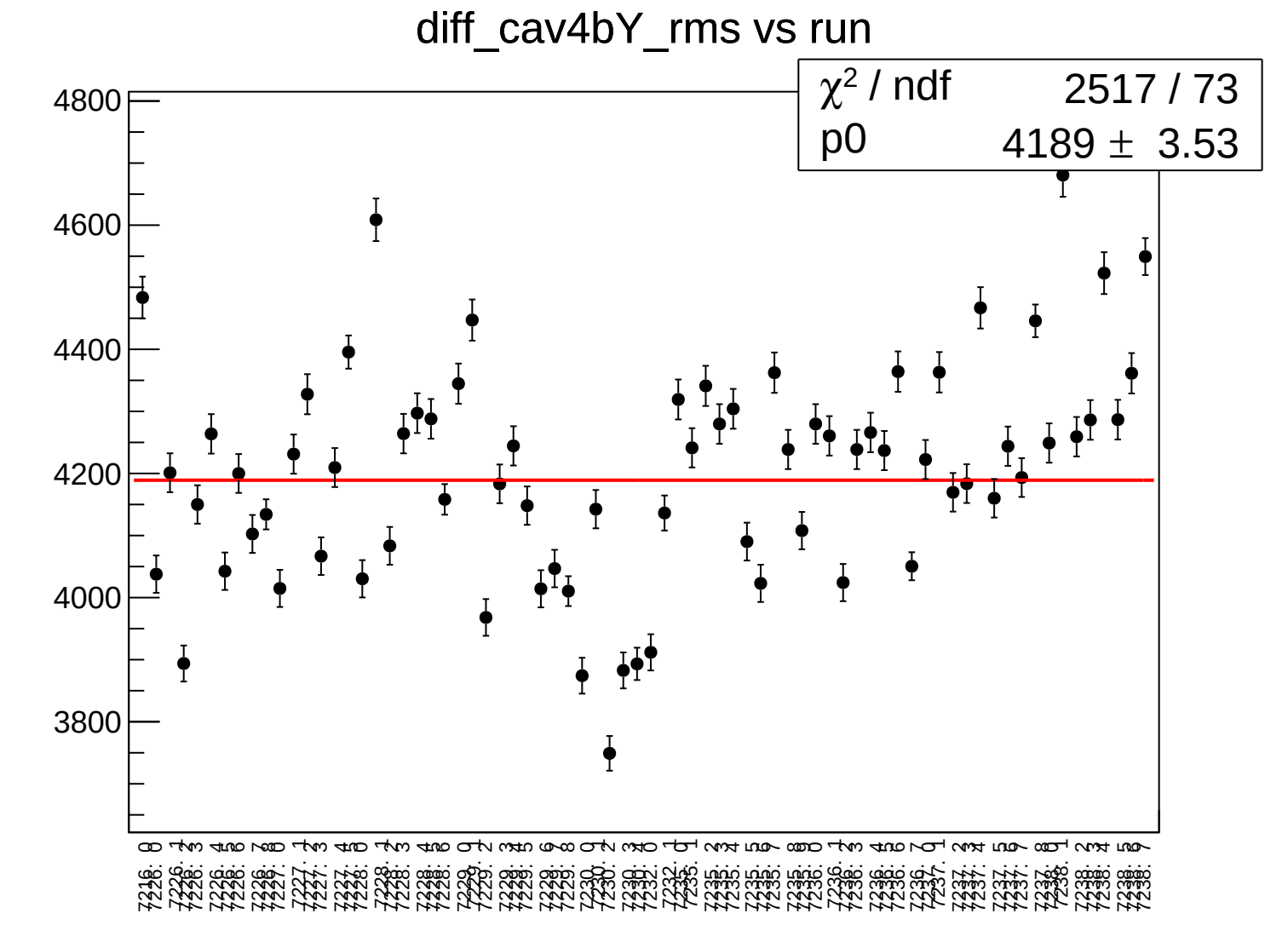

diff_cav4bX_mean vs run
χ² / ndf 66.63 / 73
p0 −33.79 ± 13.88
pull
Entries 74
Mean −930.4
Std Dev 976.5

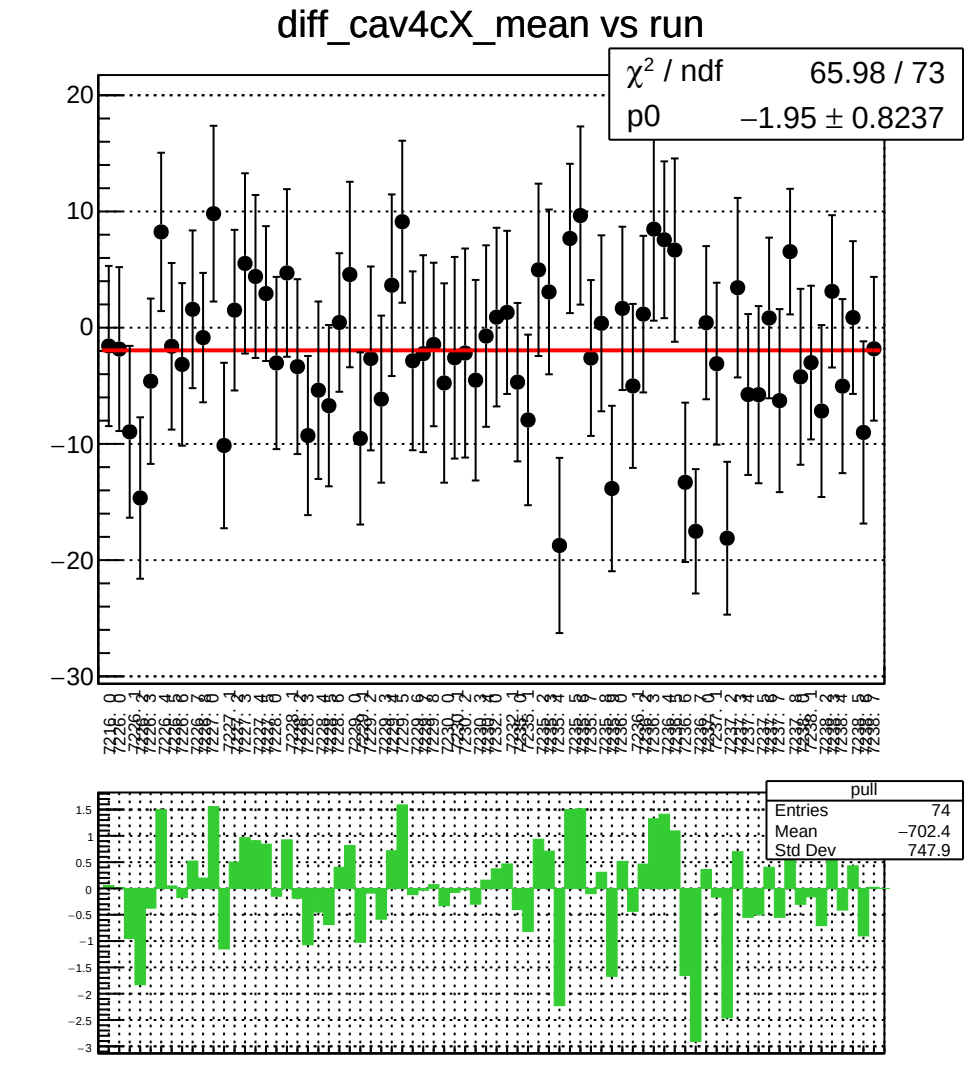

pull1D
Entries 74
Mean 0.001605
Std Dev 0.9489

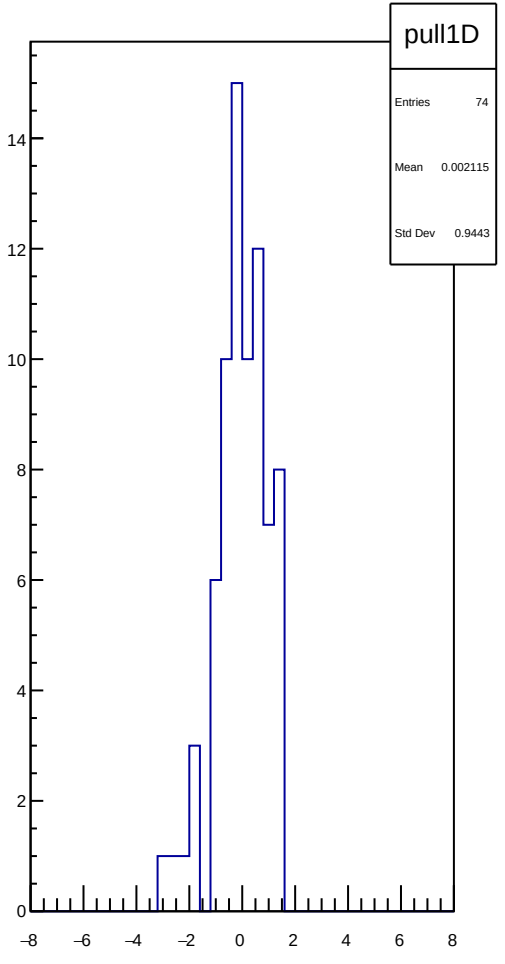

diff_cav4bX_rms vs run
χ² / ndf 6640 / 73
p0 1.163e+04 ± 9.812
14000
13500
13000
12500
12000
11500
11000
10500
10000

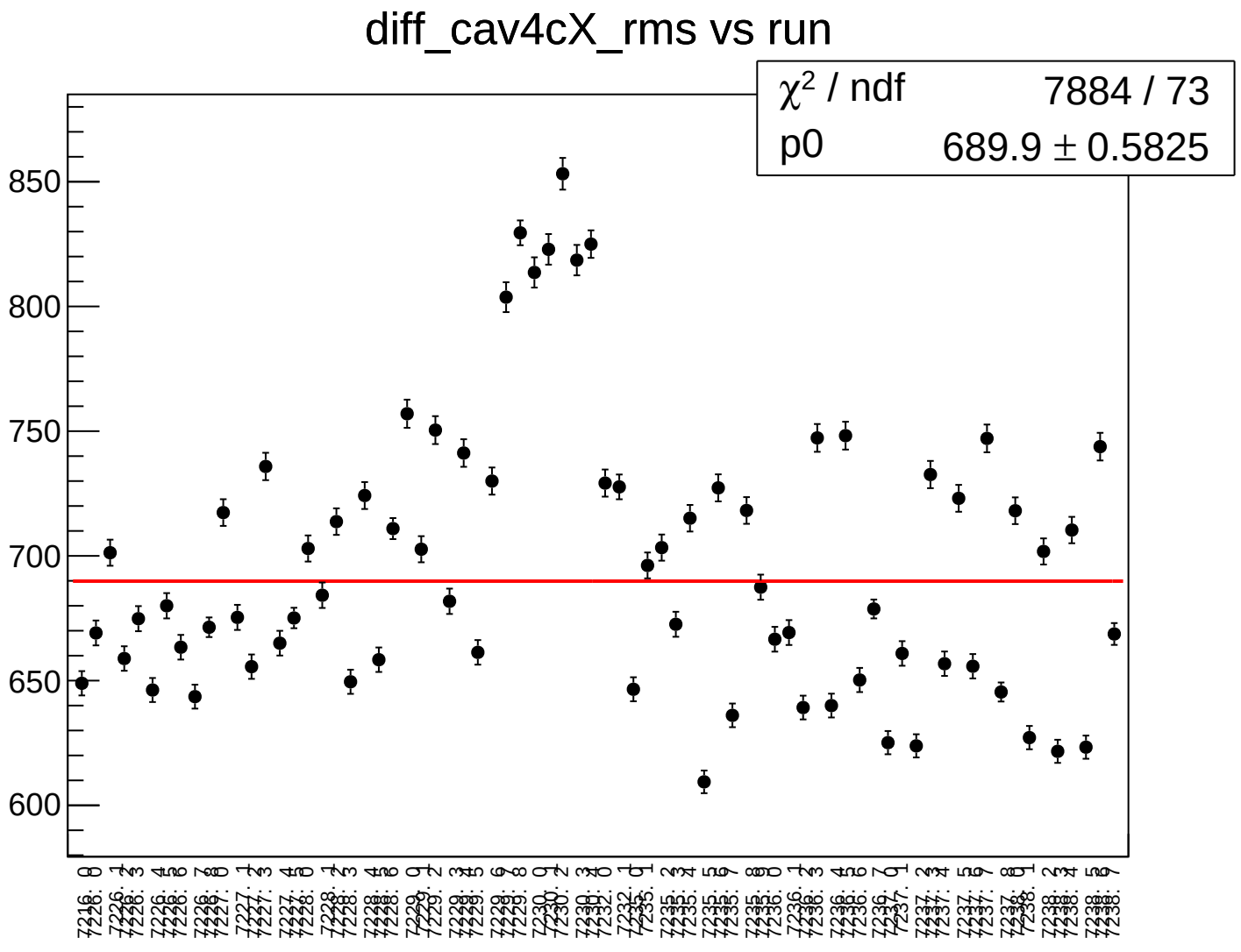

diff_cav4bY_mean vs run
χ² / ndf 60.5 / 73
p0 −3.519 ± 4.992
pull
Entries 74
Mean −63.75
Std Dev 80.84

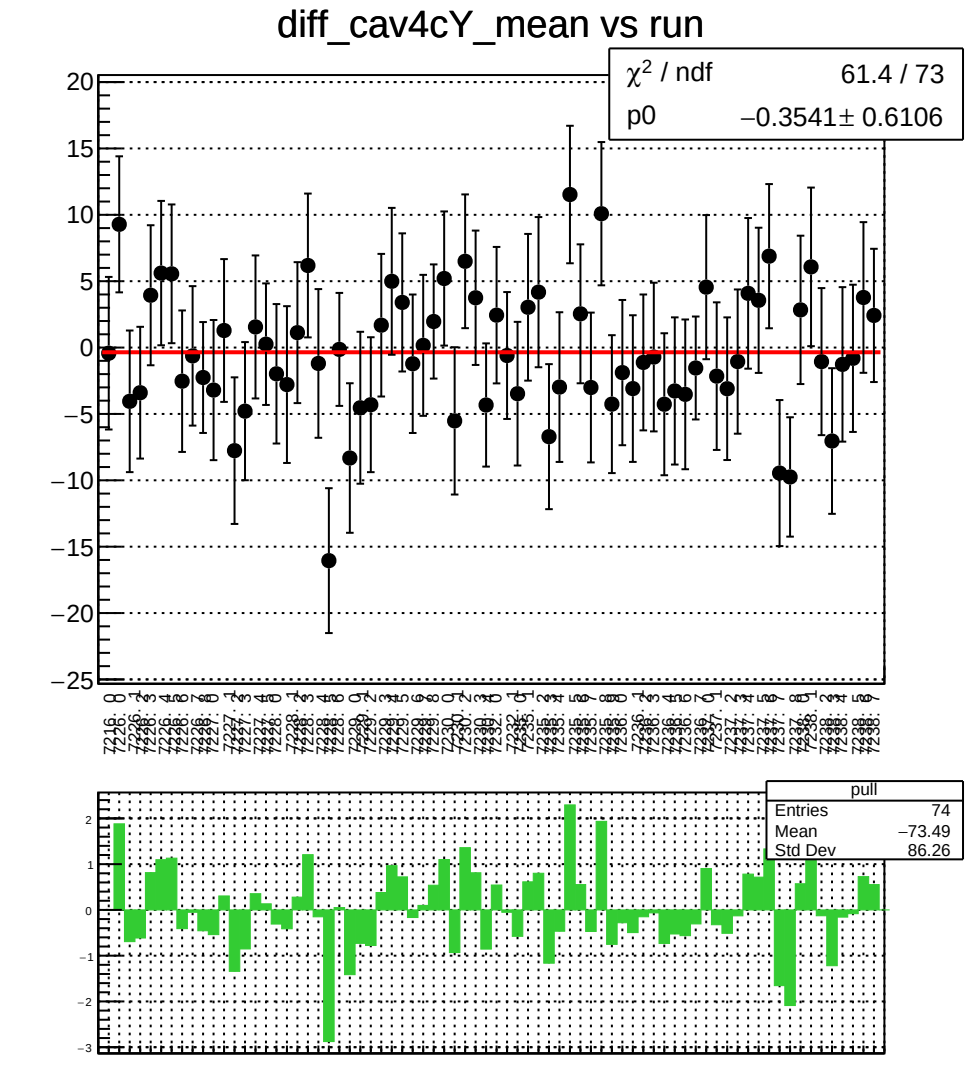

pull1D
Entries 74
Mean 0.002338
Std Dev 0.9042

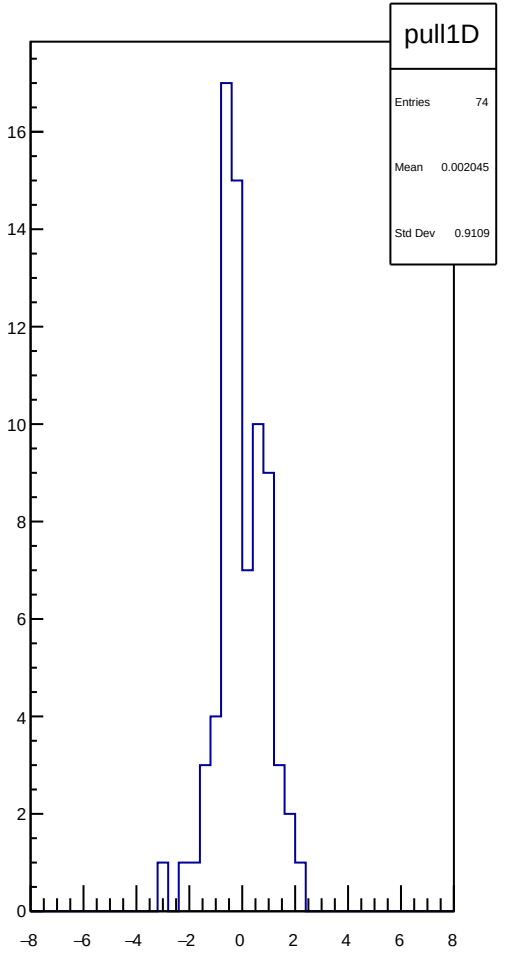

diff_cav4bY_rms vs run
χ² / ndf 2517 / 73
p0 4189 ± 3.53
4800
4600
4400
4200
4000
3800

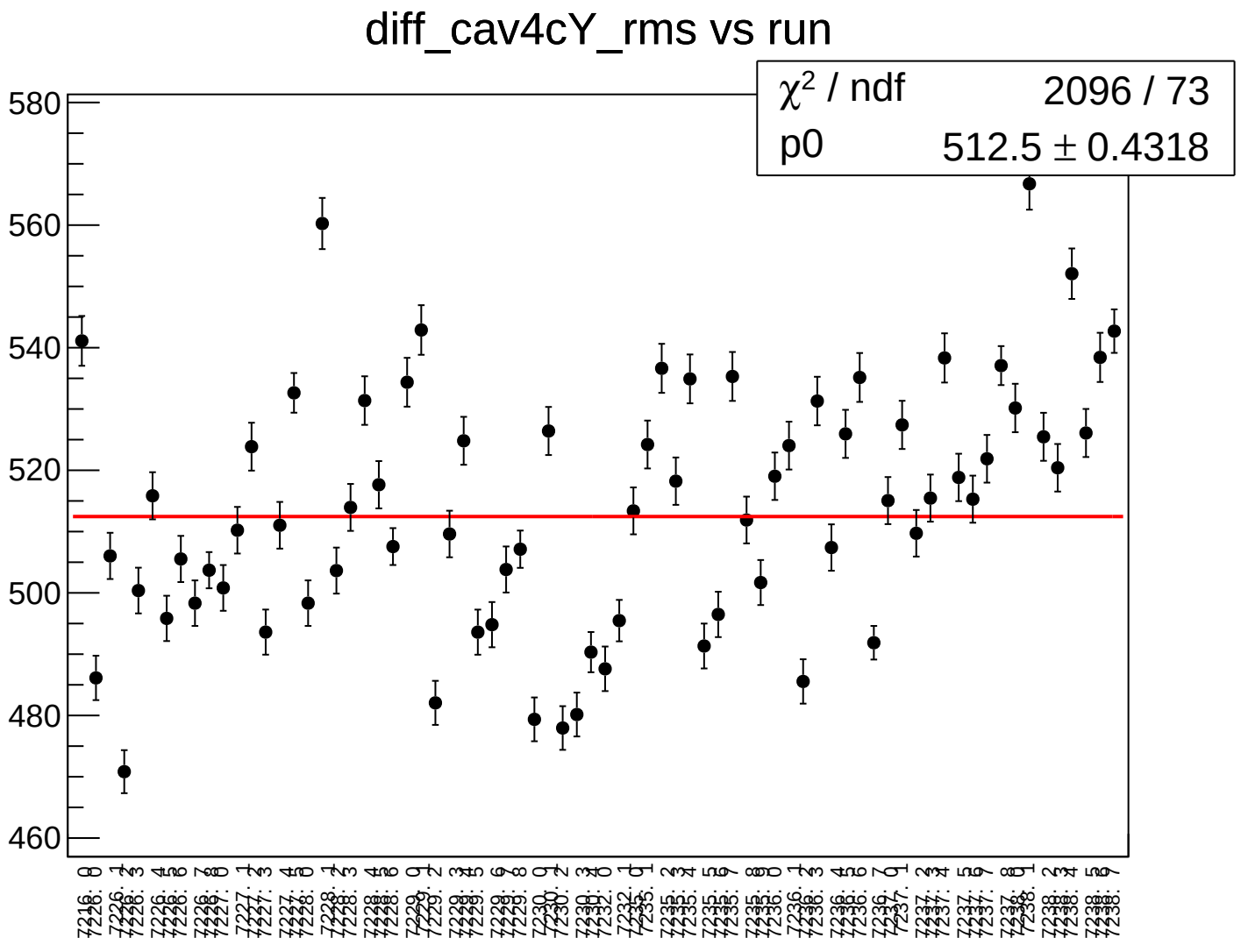

diff_cav4cX_mean vs run
χ² / ndf 65.98 / 73
p0 −1.95 ± 0.8237
pull
Entries 74
Mean −702.4
Std Dev 747.9

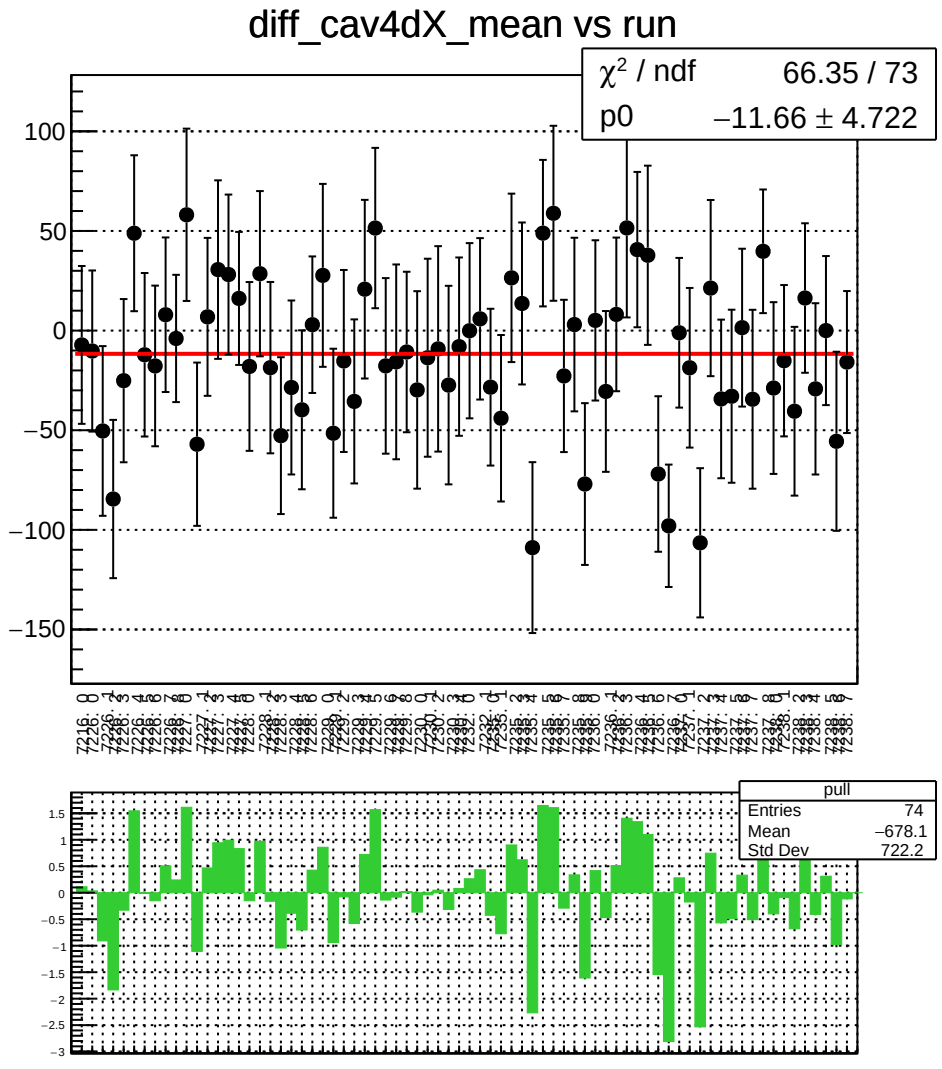

pull1D
Entries 74
Mean 0.002115
Std Dev 0.9443

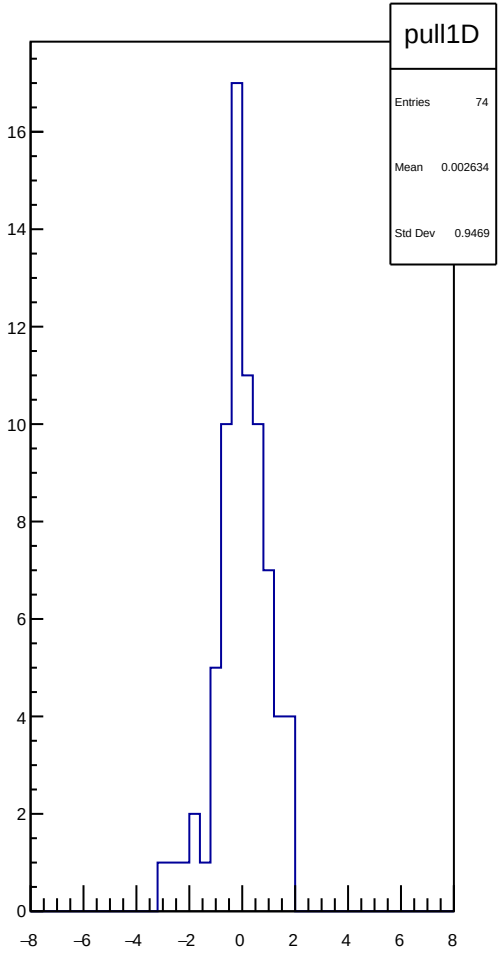

diff_cav4cX_rms vs run
χ² / ndf 7884 / 73
p0 689.9 ± 0.5825
850
800
750
700
650
600

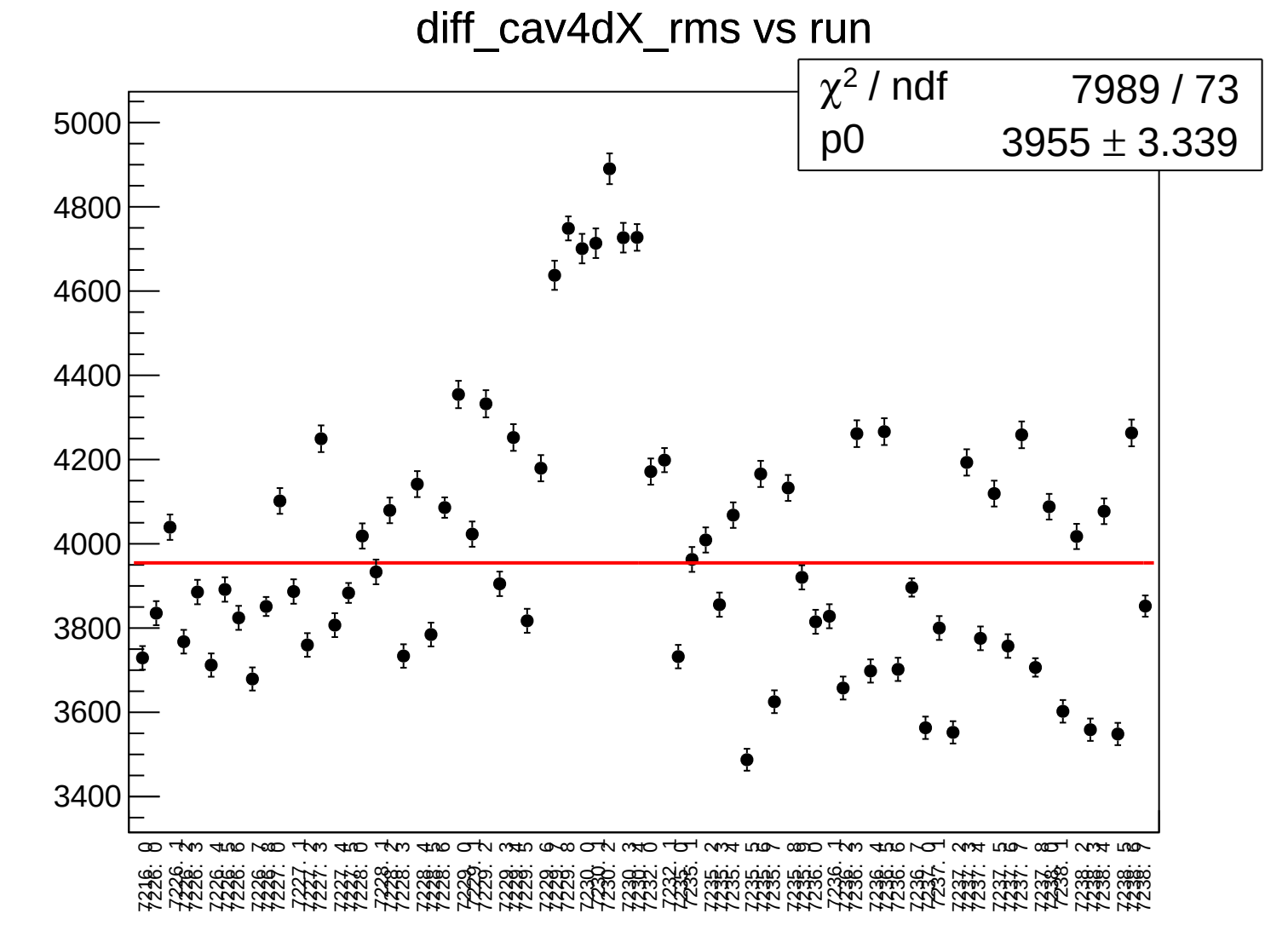

diff_cav4cY_mean vs run
χ² / ndf 61.4 / 73
p0 −0.3541± 0.6106
pull
Entries 74
Mean −73.49
Std Dev 86.26

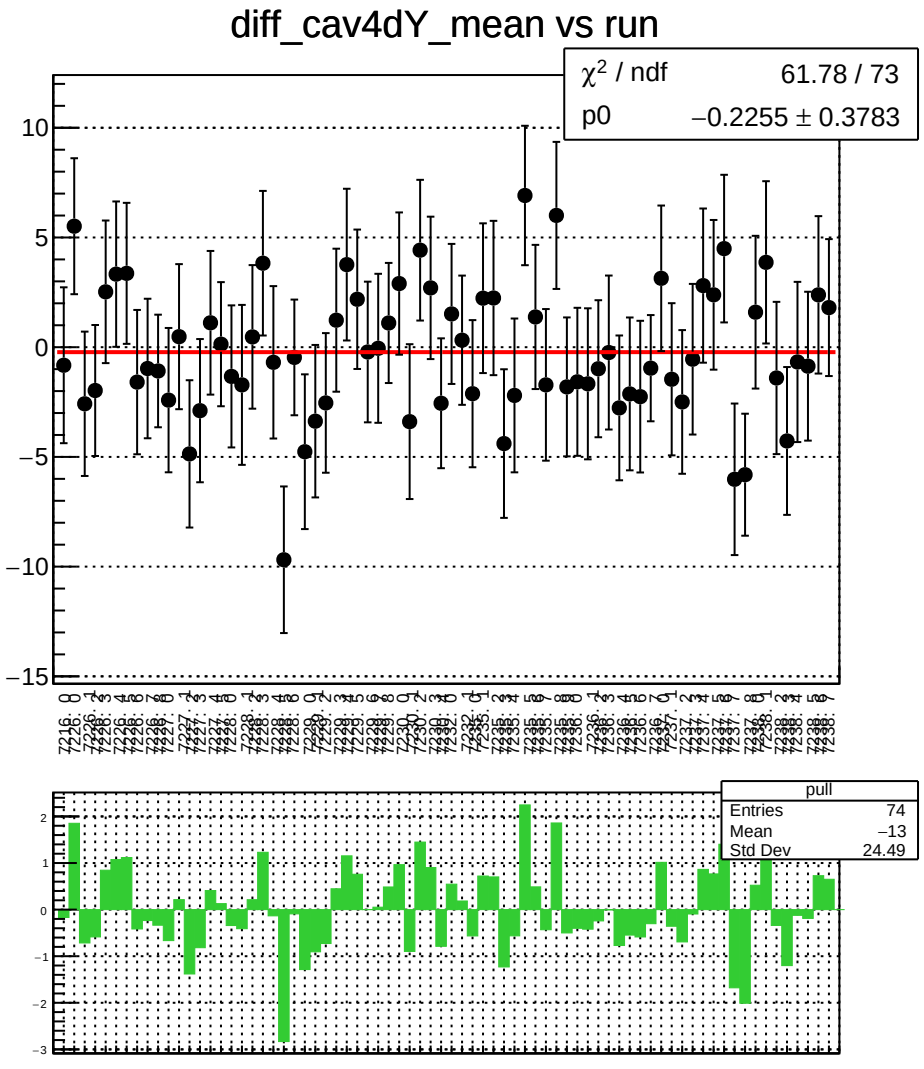

pull1D
Entries 74
Mean 0.002045
Std Dev 0.9109

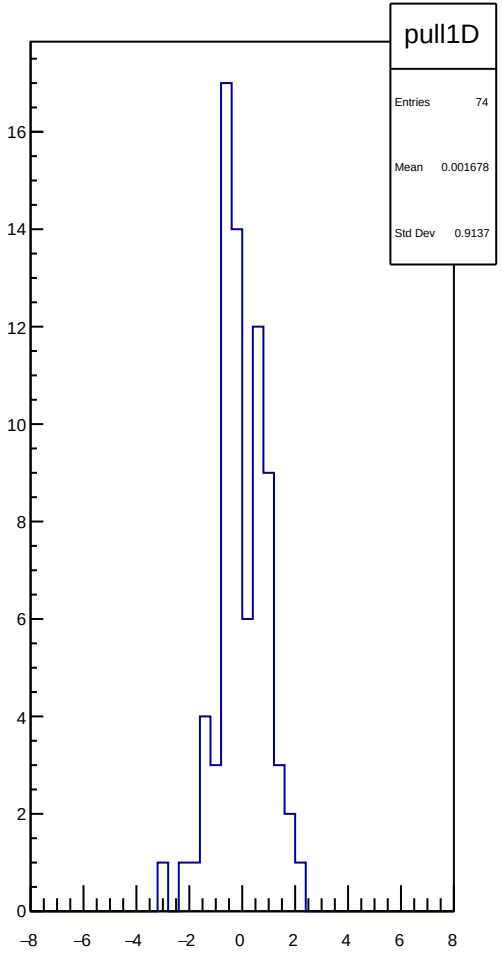

diff_cav4cY_rms vs run
χ² / ndf 2096 / 73
p0 512.5 ± 0.4318
580
560
540
520
500
480
460

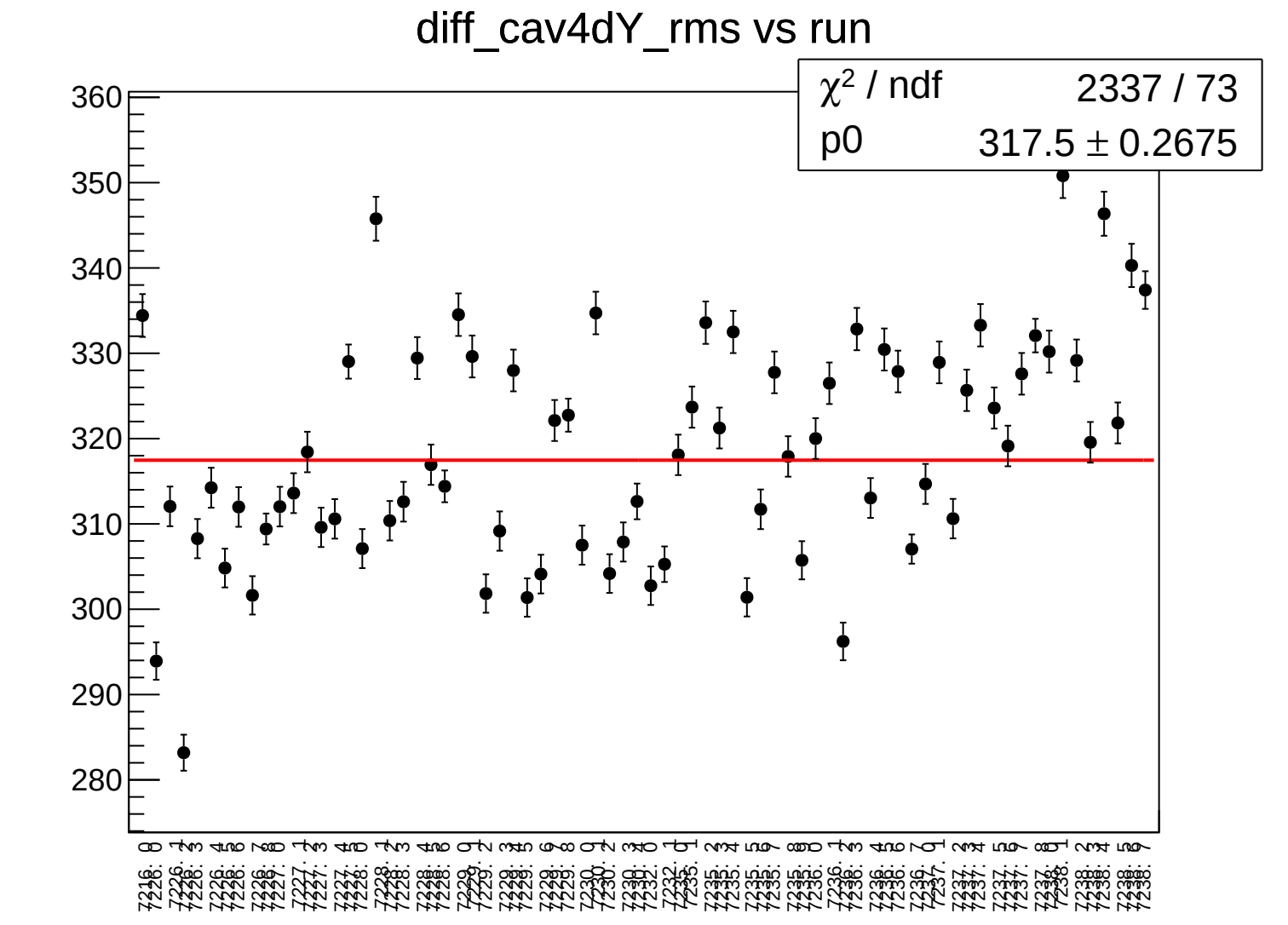

diff_cav4dX_mean vs run
χ² / ndf 66.35 / 73
p0 −11.66 ± 4.722
pull
Entries 74
Mean −678.1
Std Dev 722.2

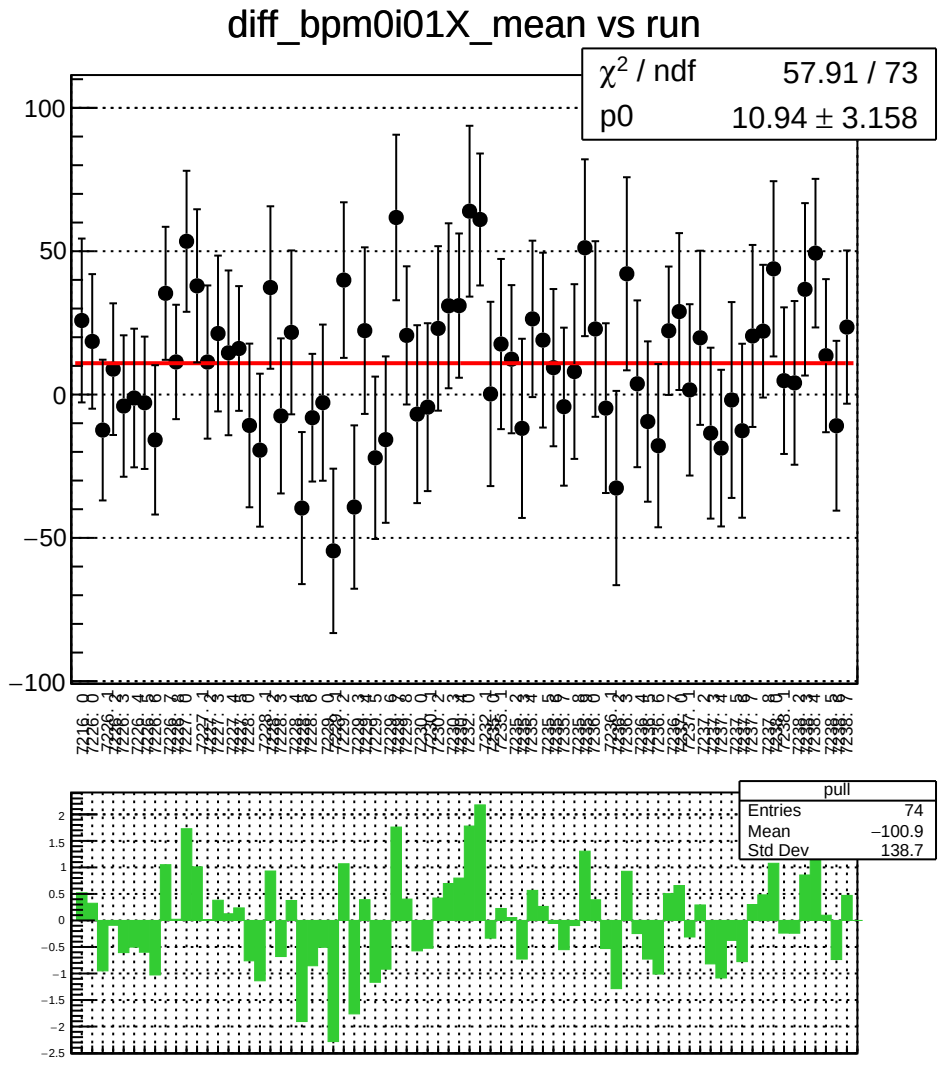

pull1D
Entries 74
Mean 0.002634
Std Dev 0.9469

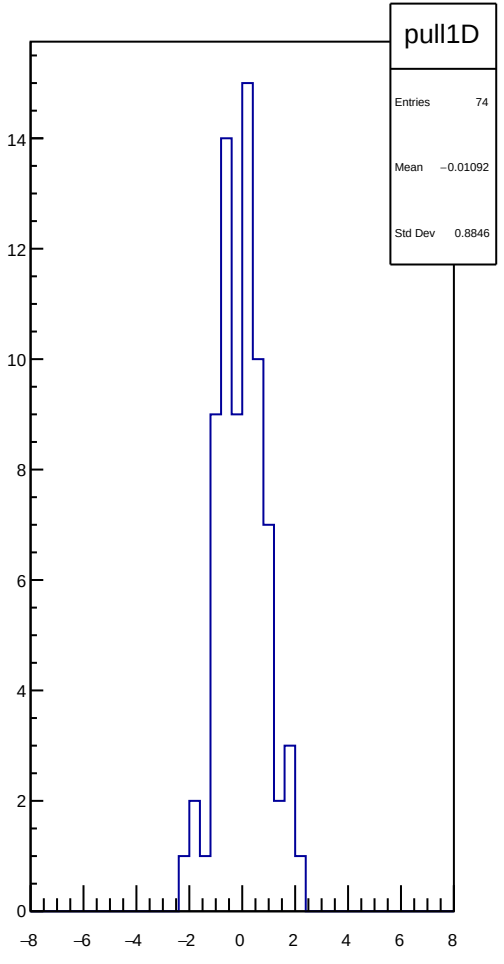

diff_cav4dX_rms vs run
χ^2 / ndf 7989 / 73
p0 3955 ± 3.339
5000
4800
4600
4400
4200
4000
3800
3600
3400

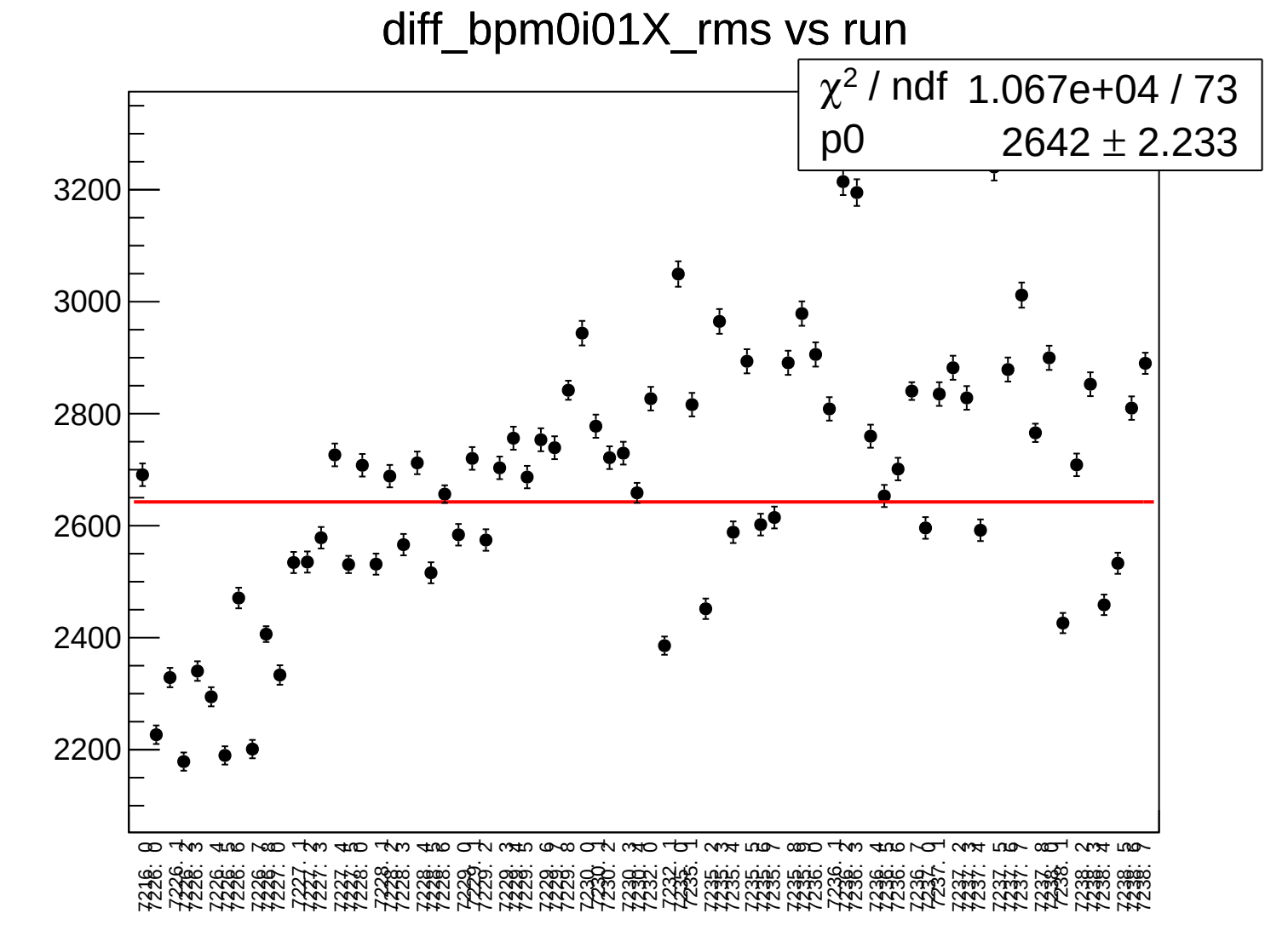

diff_cav4dY_mean vs run
χ² / ndf 61.78 / 73
p0 −0.2255 ± 0.3783
pull
Entries 74
Mean −13
Std Dev 24.49

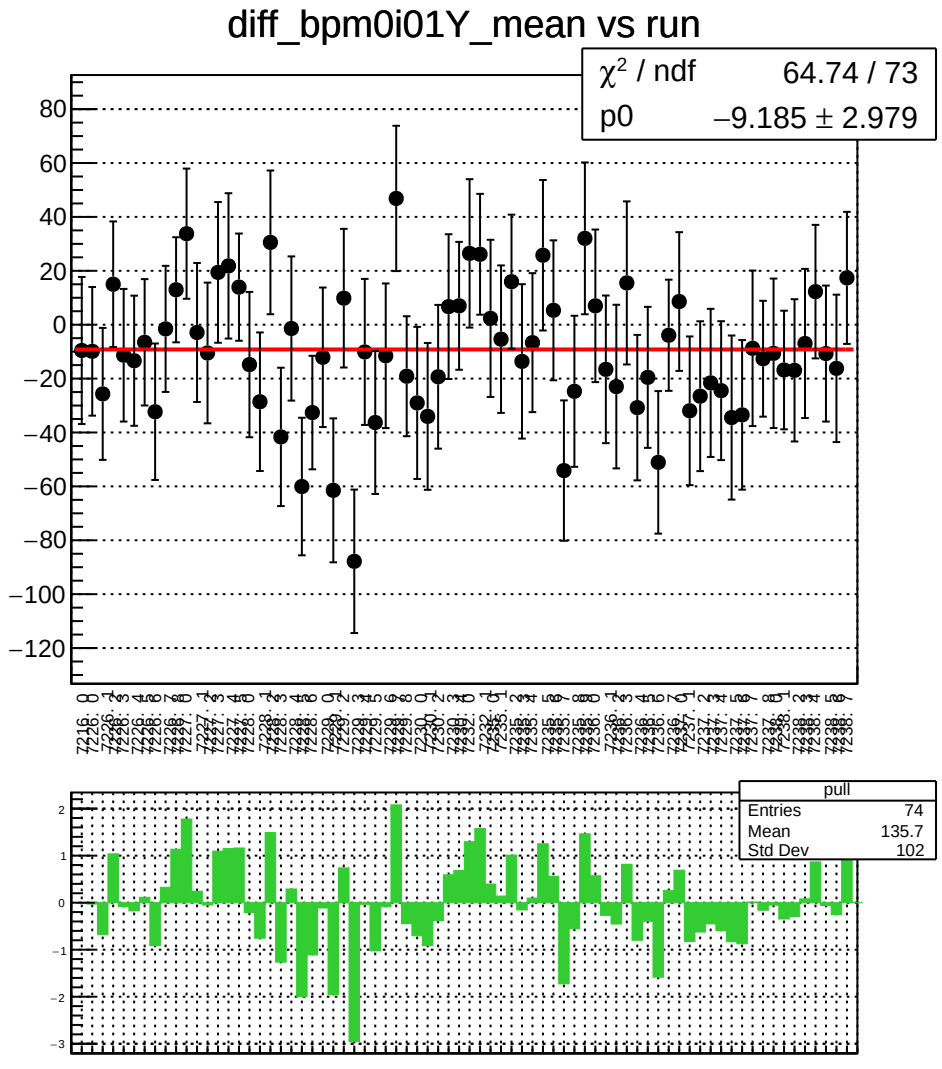

pull1D
Entries 74
Mean 0.001678
Std Dev 0.9137

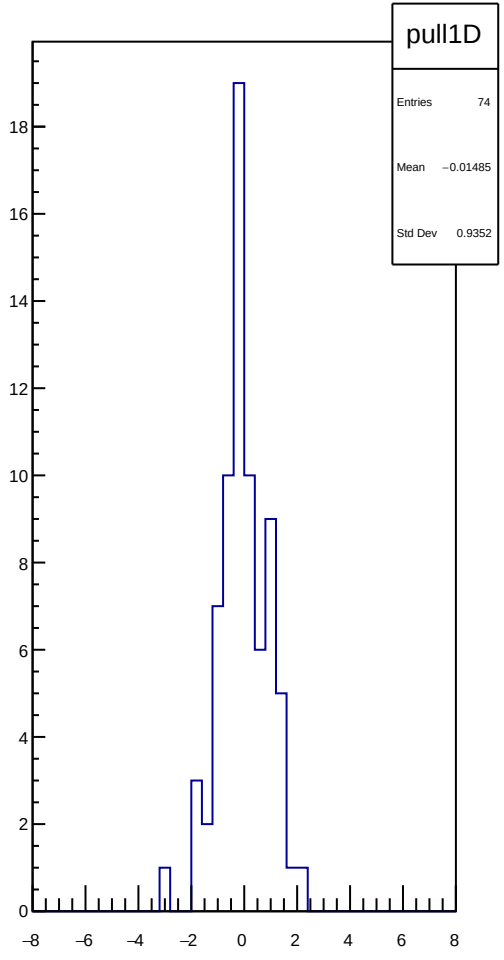

diff_cav4dY_rms vs run
χ² / ndf 2337 / 73
p0 317.5 ± 0.2675
360
350
340
330
320
310
300
290
280

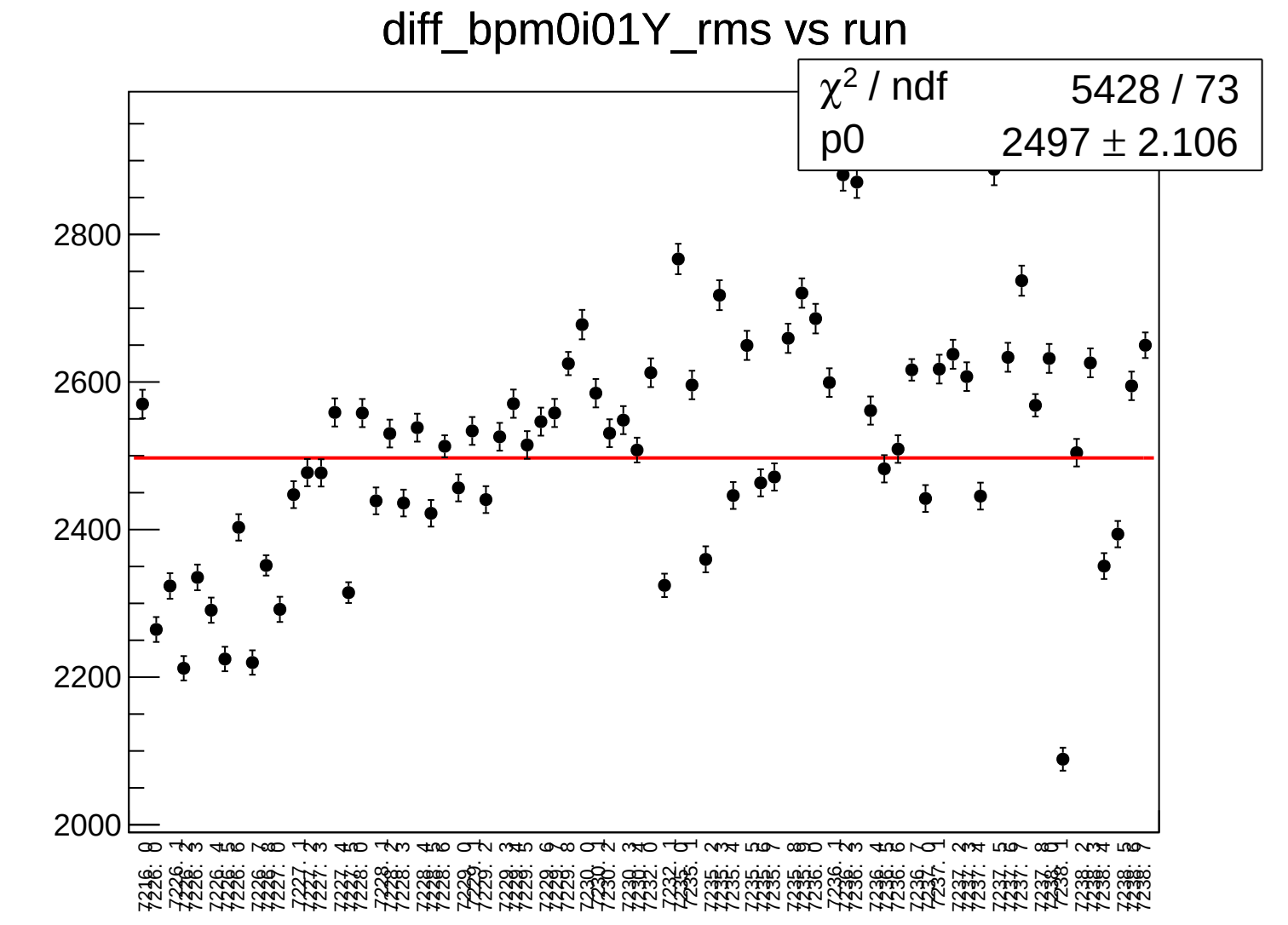

diff_bpm0i01X_mean vs run
χ^2 / ndf 57.91 / 73
p0 10.94 ± 3.158
pull
Entries 74
Mean −100.9
Std Dev 138.7

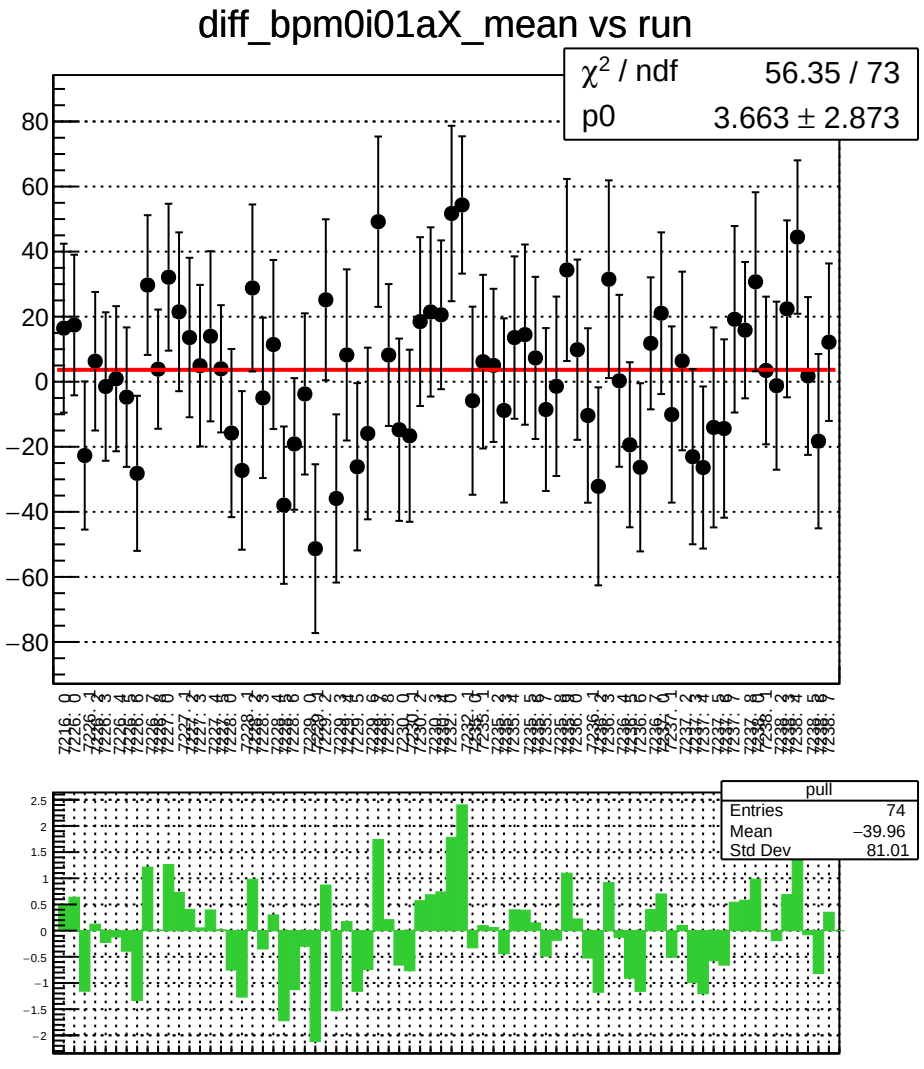

pull1D
Entries 74
Mean −0.01092
Std Dev 0.8846

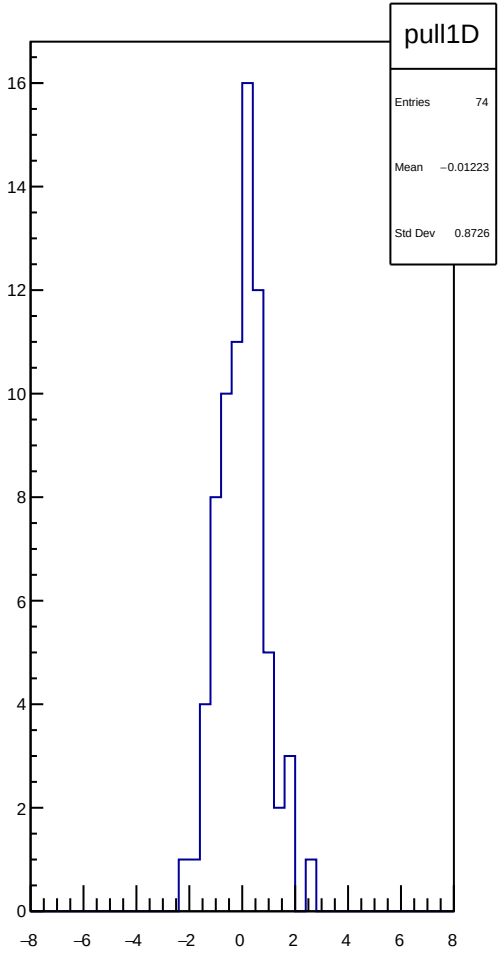

diff_bpm0i01X_rms vs run
χ^2 / ndf 1.067e+04 / 73
p0 2642 ± 2.233
3200
3000
2800
2600
2400
2200

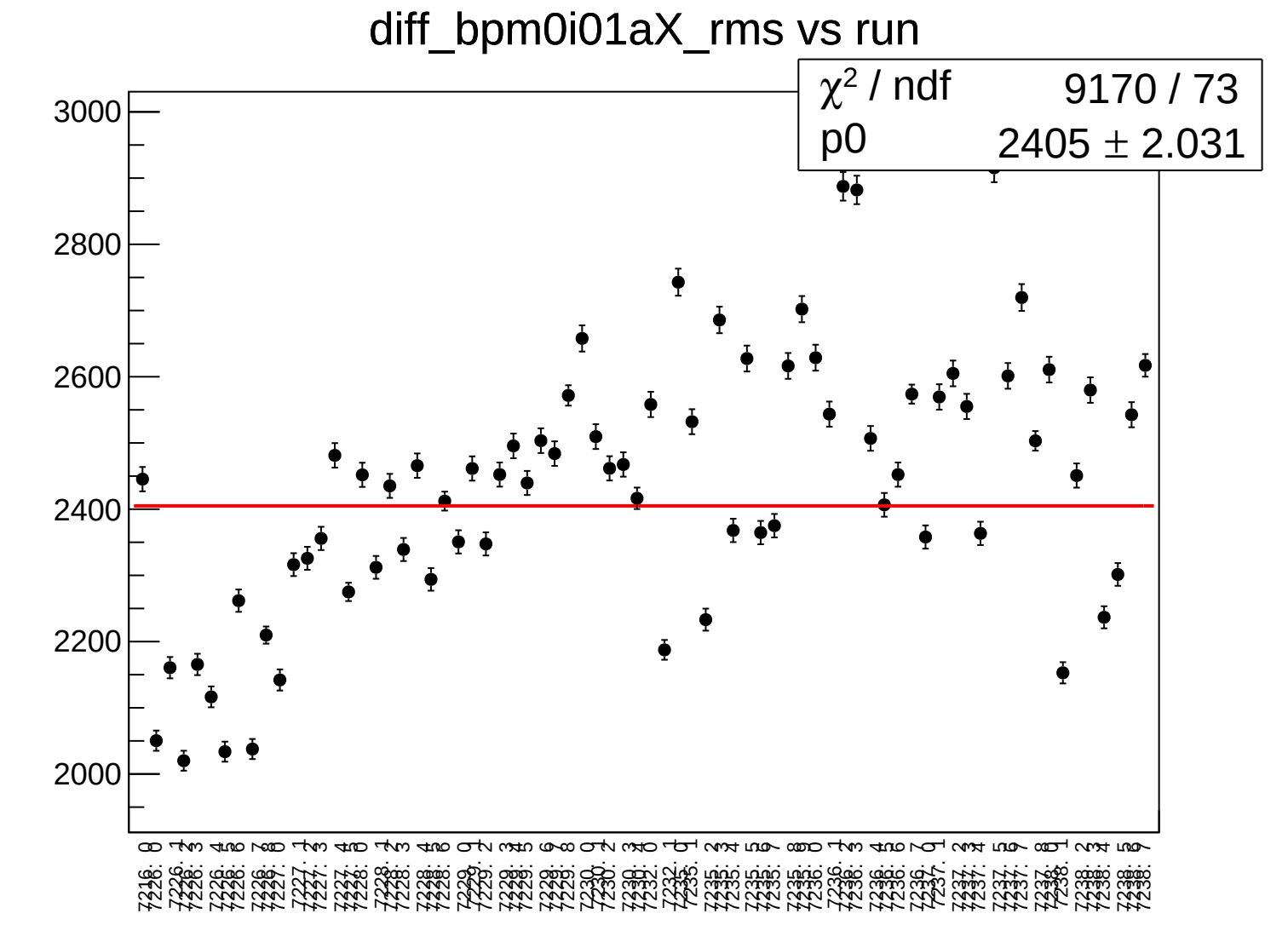

diff_bpm0i01Y_mean vs run
χ² / ndf 64.74 / 73
p0 −9.185 ± 2.979
pull
Entries 74
Mean 135.7
Std Dev 102

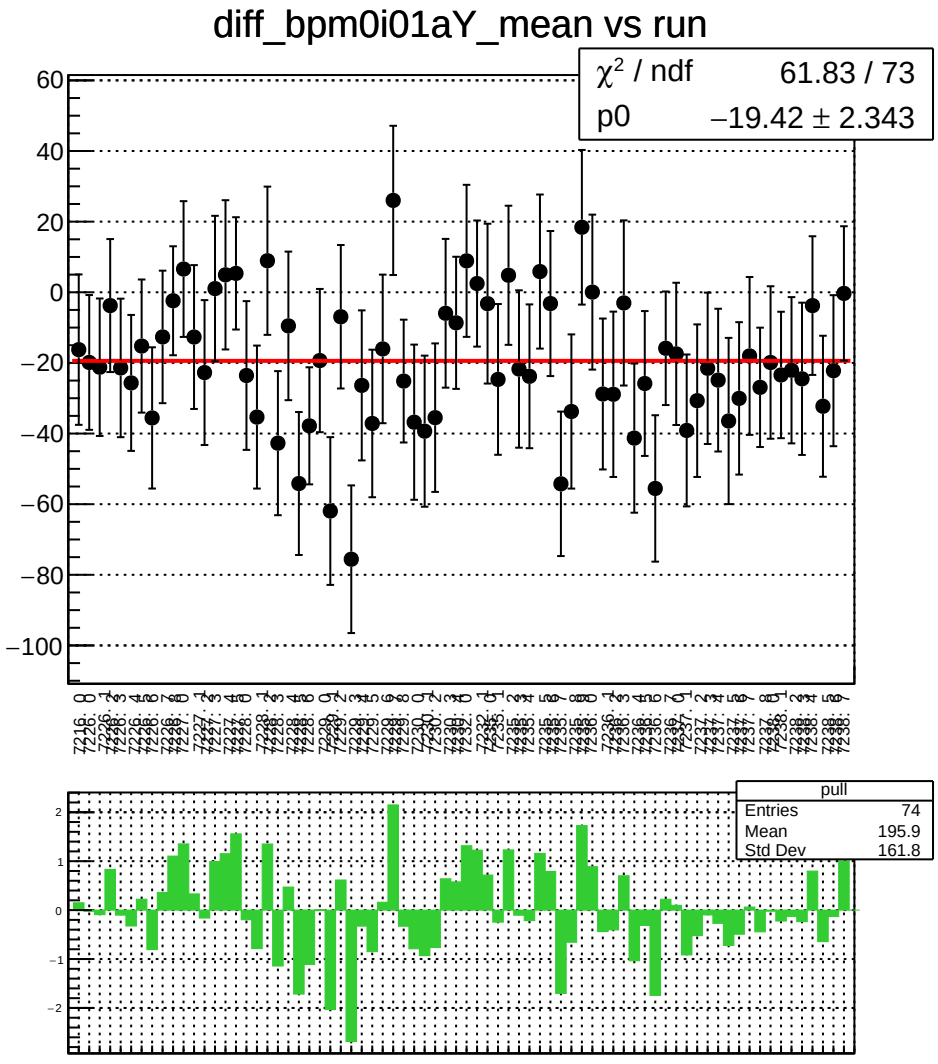

pull1D
Entries 74
Mean −0.01485
Std Dev 0.9352

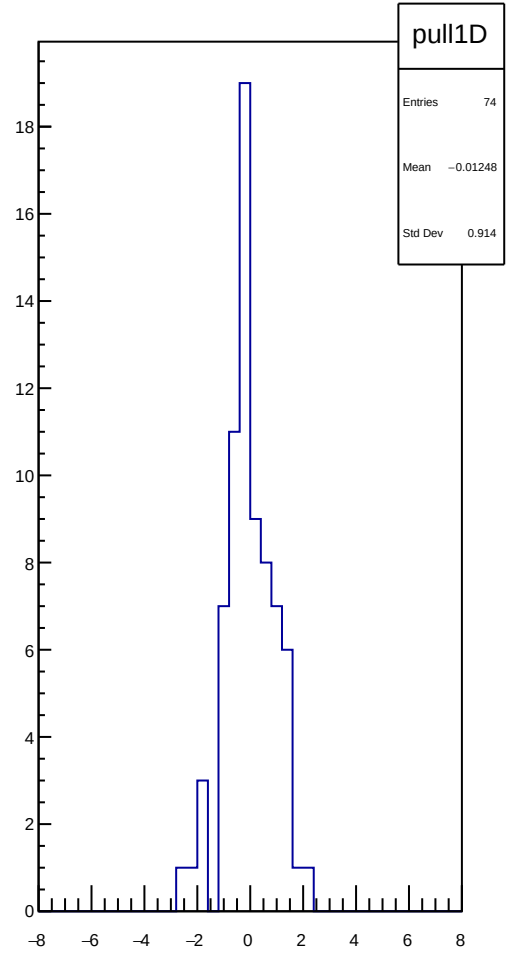

diff_bpm0i01Y_rms vs run
χ² / ndf 5428 / 73
p0 2497 ± 2.106
2800
2600
2400
2200
2000

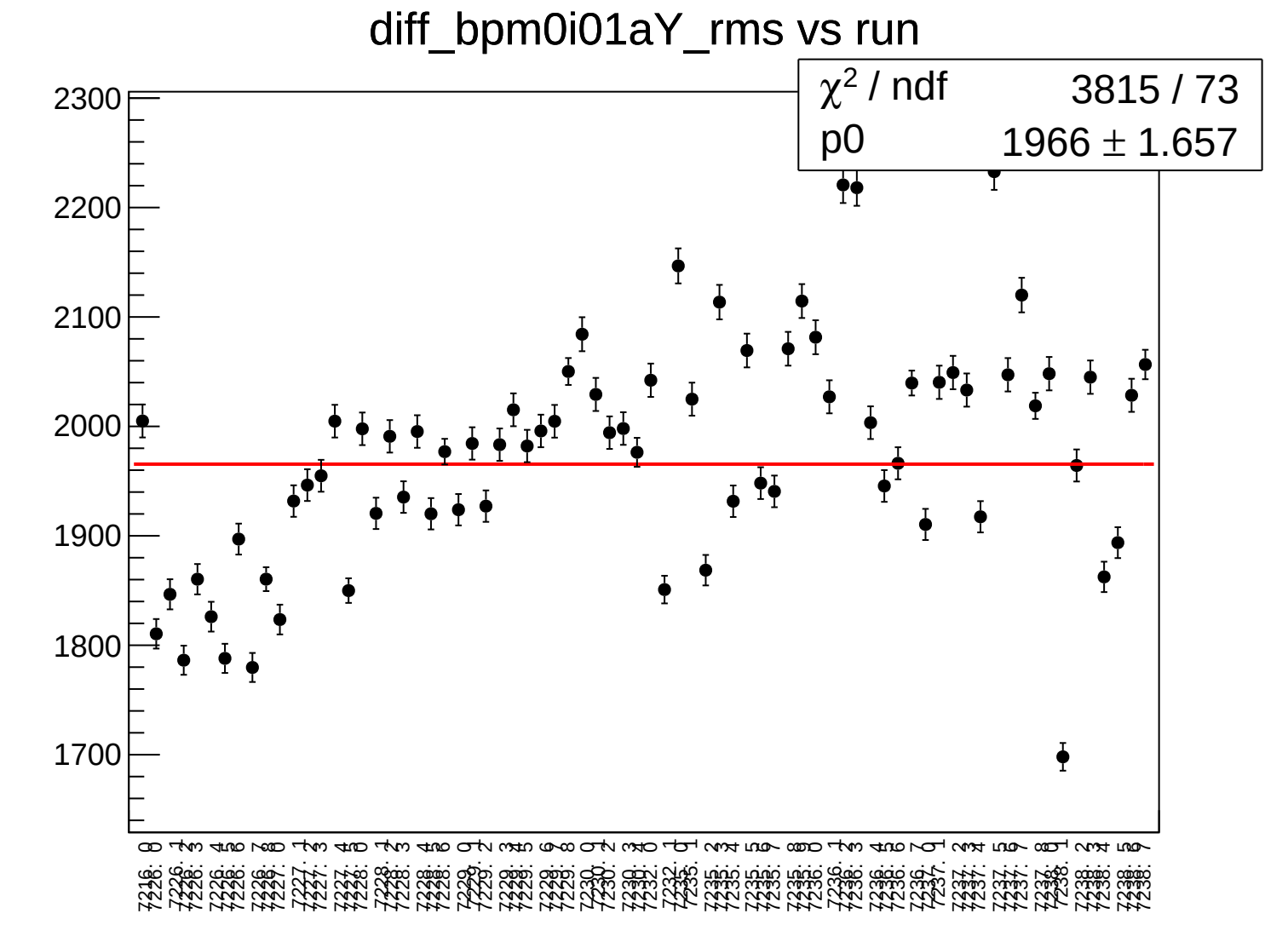

diff_bpm0i01aX_mean vs run
χ² / ndf 56.35 / 73
p0 3.663 ± 2.873
pull
Entries 74
Mean −39.96
Std Dev 81.01

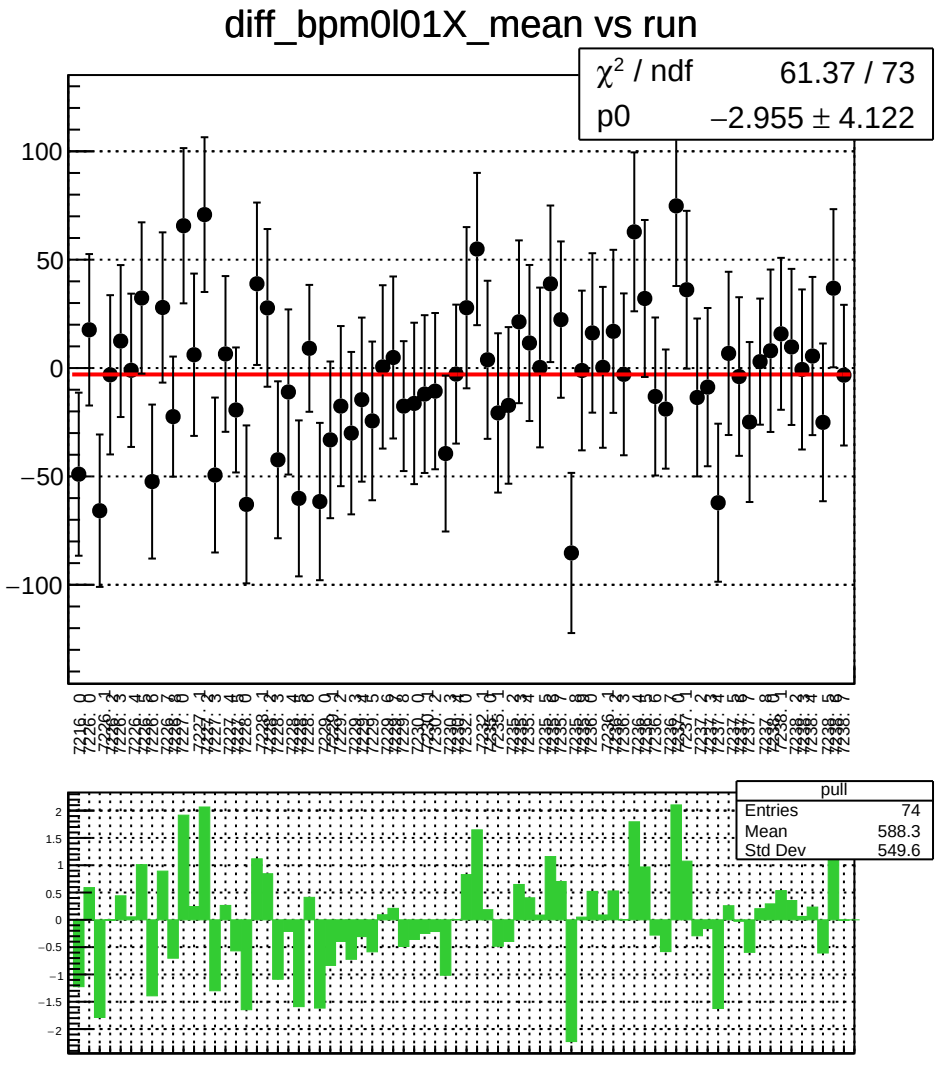

pull1D
Entries 74
Mean −0.01223
Std Dev 0.8726

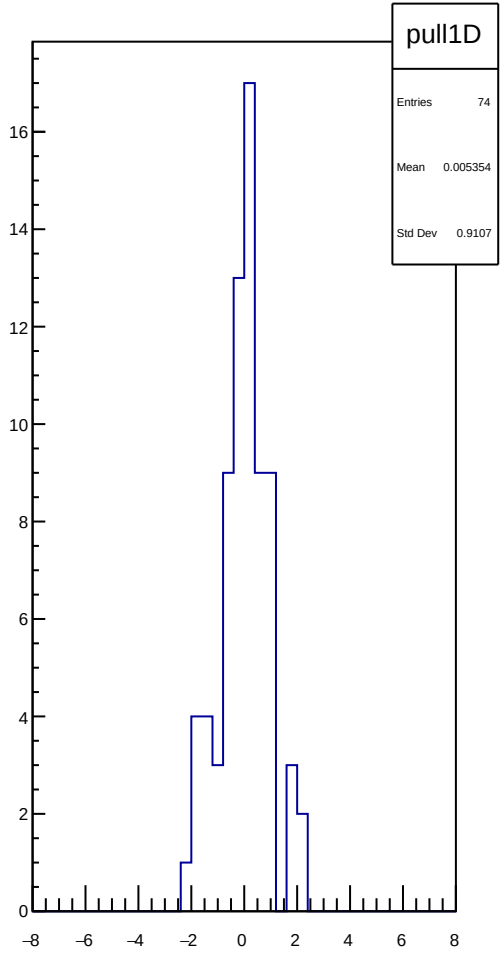

diff_bpm0i01aX_rms vs run
χ² / ndf 9170 / 73
p0 2405 ± 2.031
3000
2800
2600
2400
2200
2000

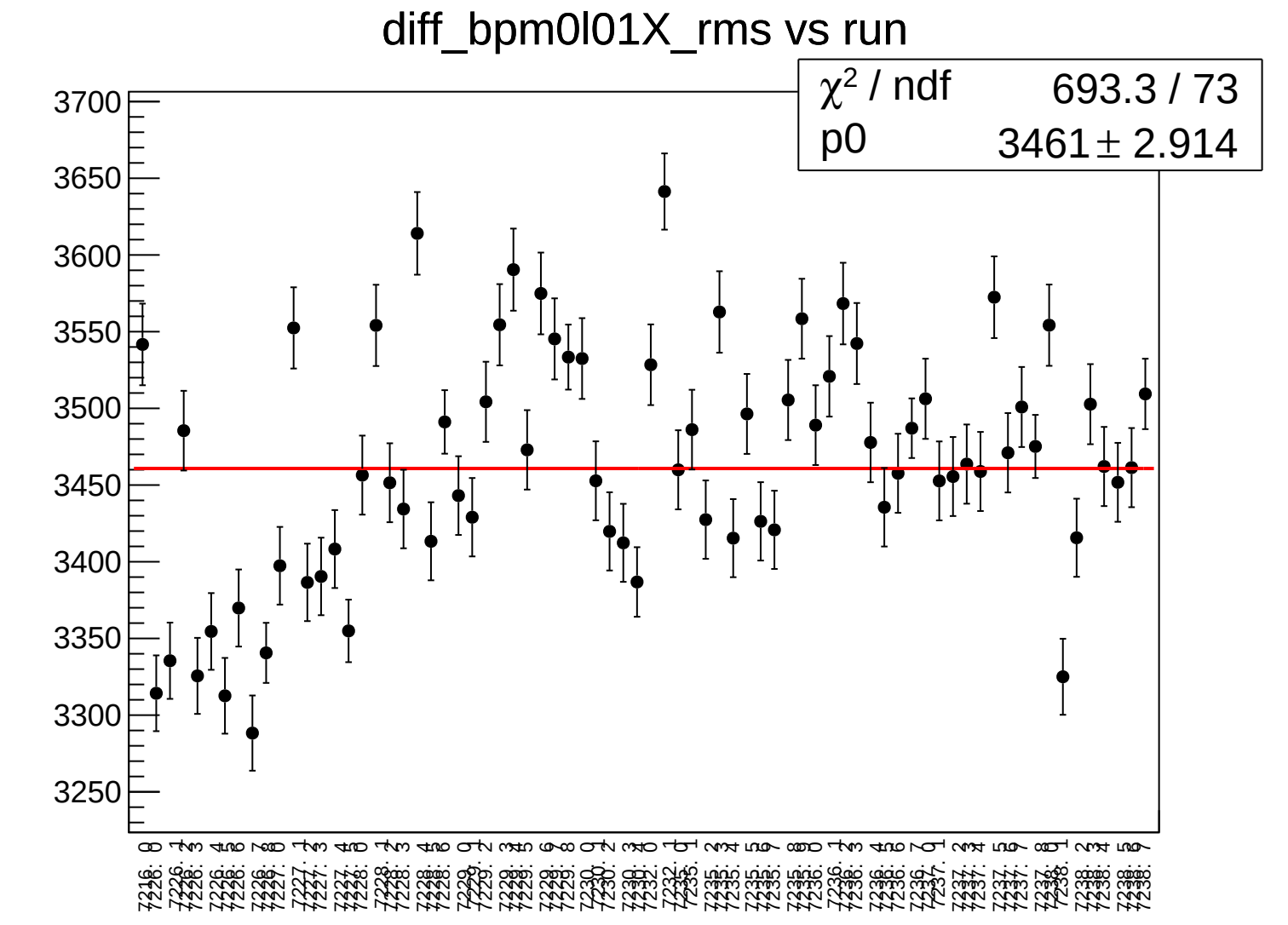

diff_bpm0i01aY_mean vs run
χ² / ndf 61.83 / 73
p0 −19.42 ± 2.343
pull
Entries 74
Mean 195.9
Std Dev 161.8

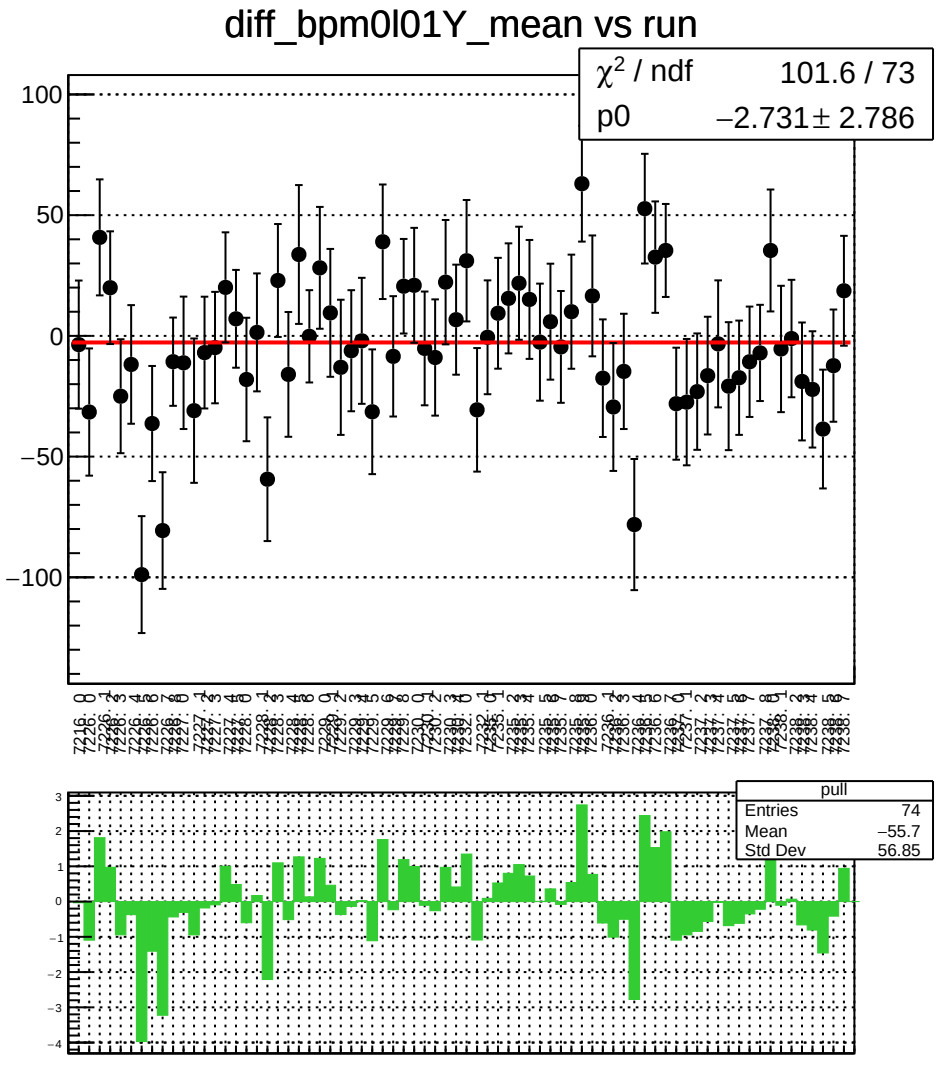

pull1D
Entries 74
Mean −0.01248
Std Dev 0.914

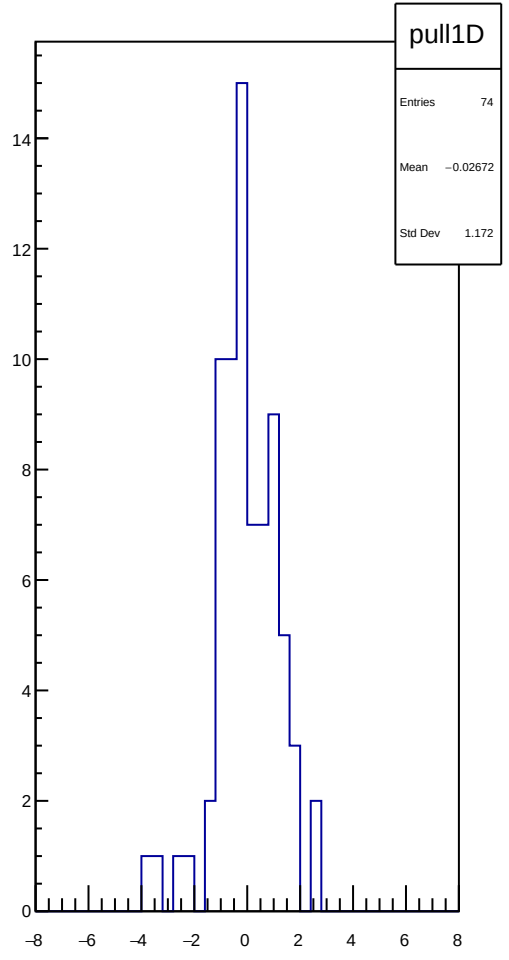

diff_bpm0i01aY_rms vs run
χ^2 / ndf 3815 / 73
p0 1966 ± 1.657
2300
2200
2100
2000
1900
1800
1700

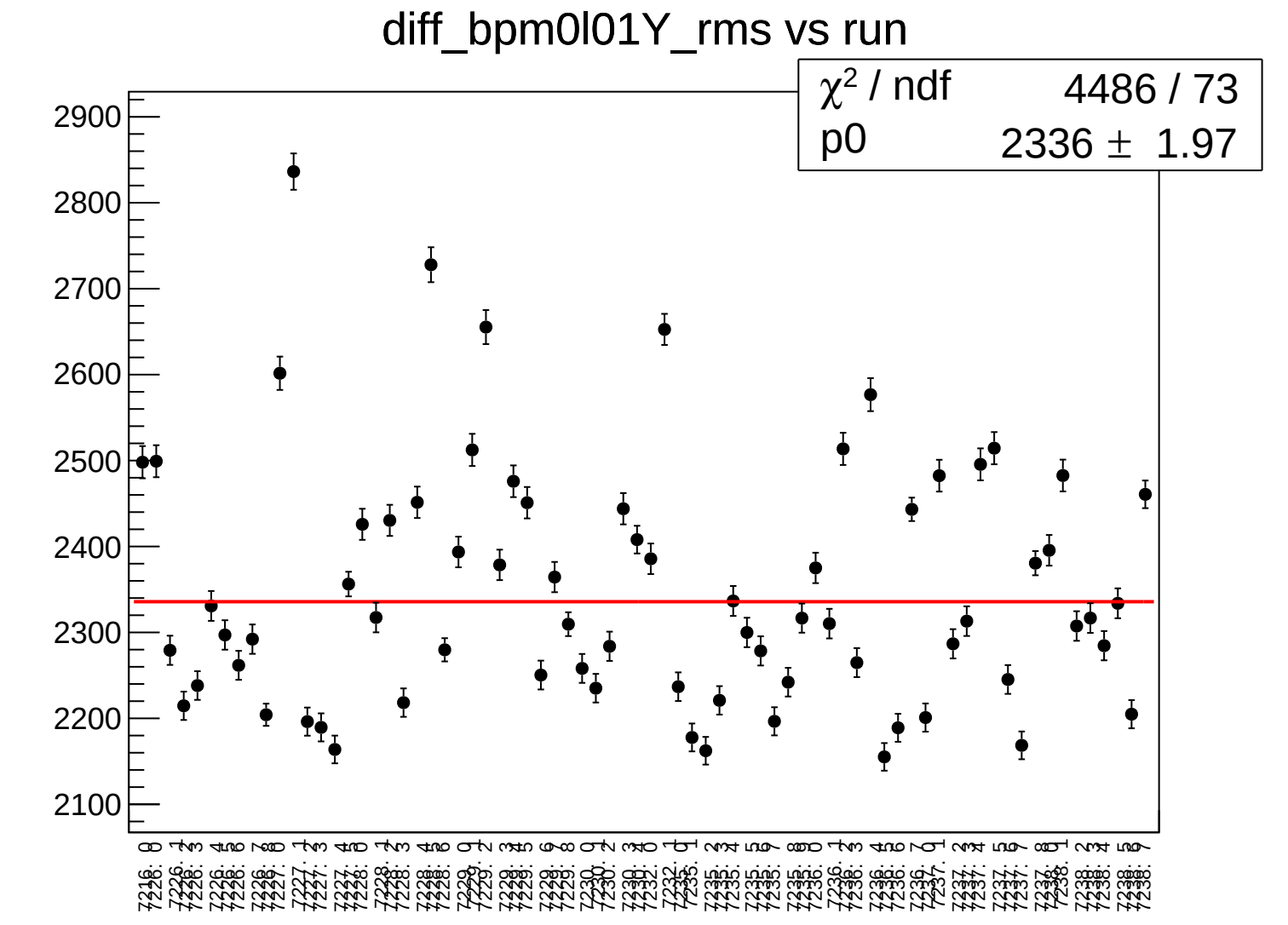

diff_bpm0l01X_mean vs run
χ² / ndf 61.37 / 73
p0 −2.955 ± 4.122
pull
Entries 74
Mean 588.3
Std Dev 549.6

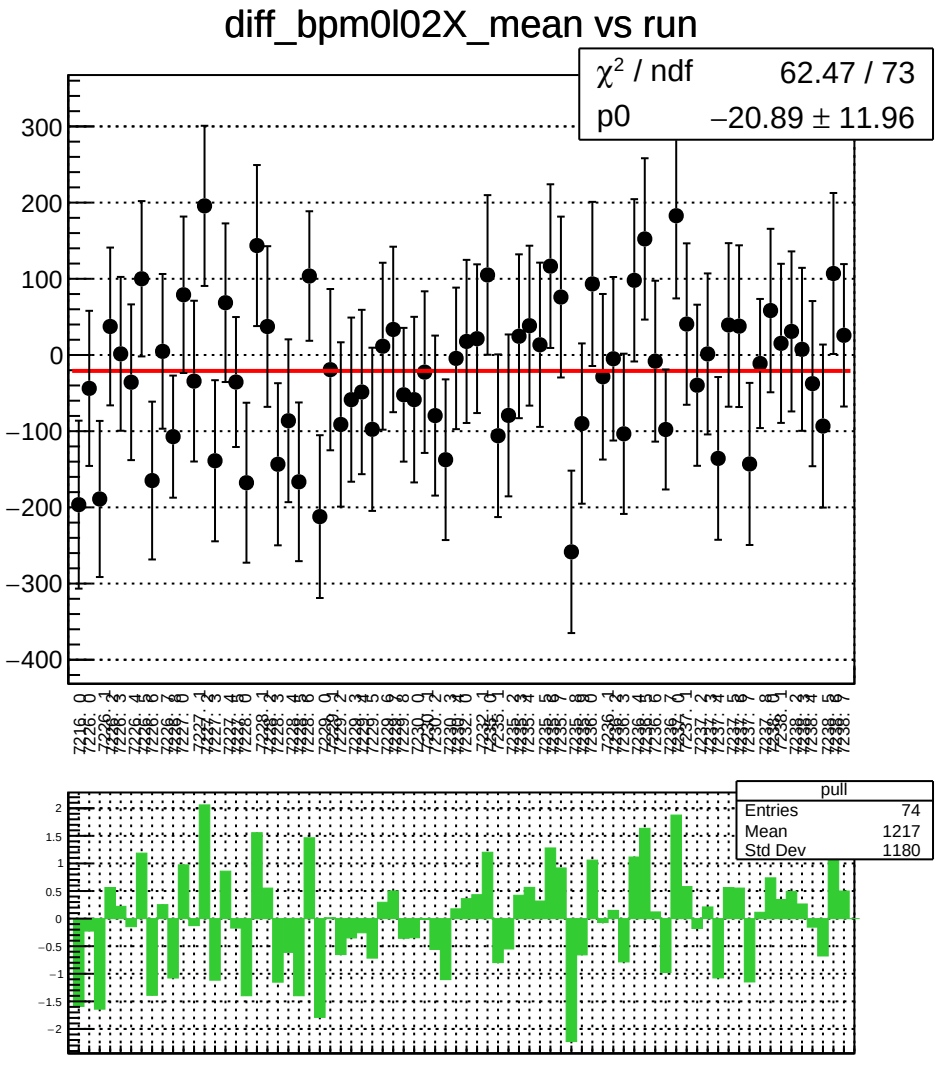

pull1D
Entries 74
Mean 0.005354
Std Dev 0.9107

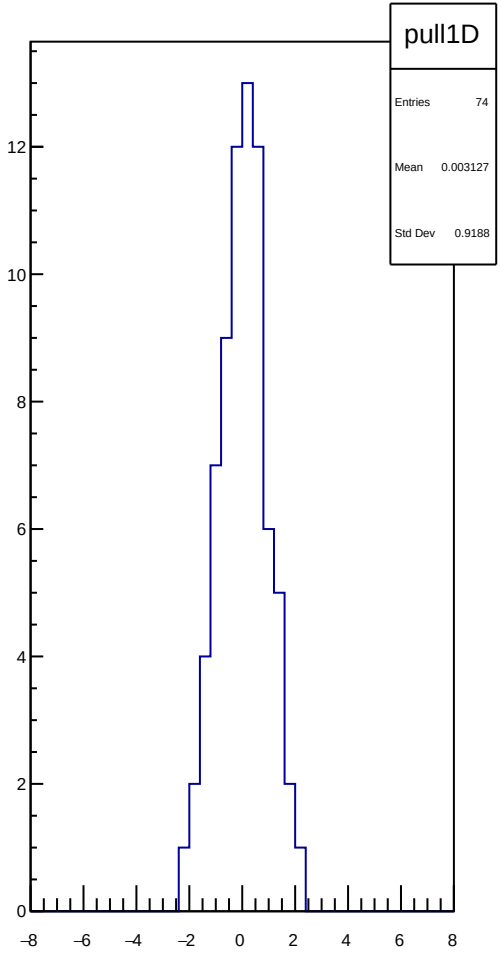

diff_bpm0l01X_rms vs run
χ² / ndf 693.3 / 73
p0 3461 ± 2.914
3700
3650
3600
3550
3500
3450
3400
3350
3300
3250

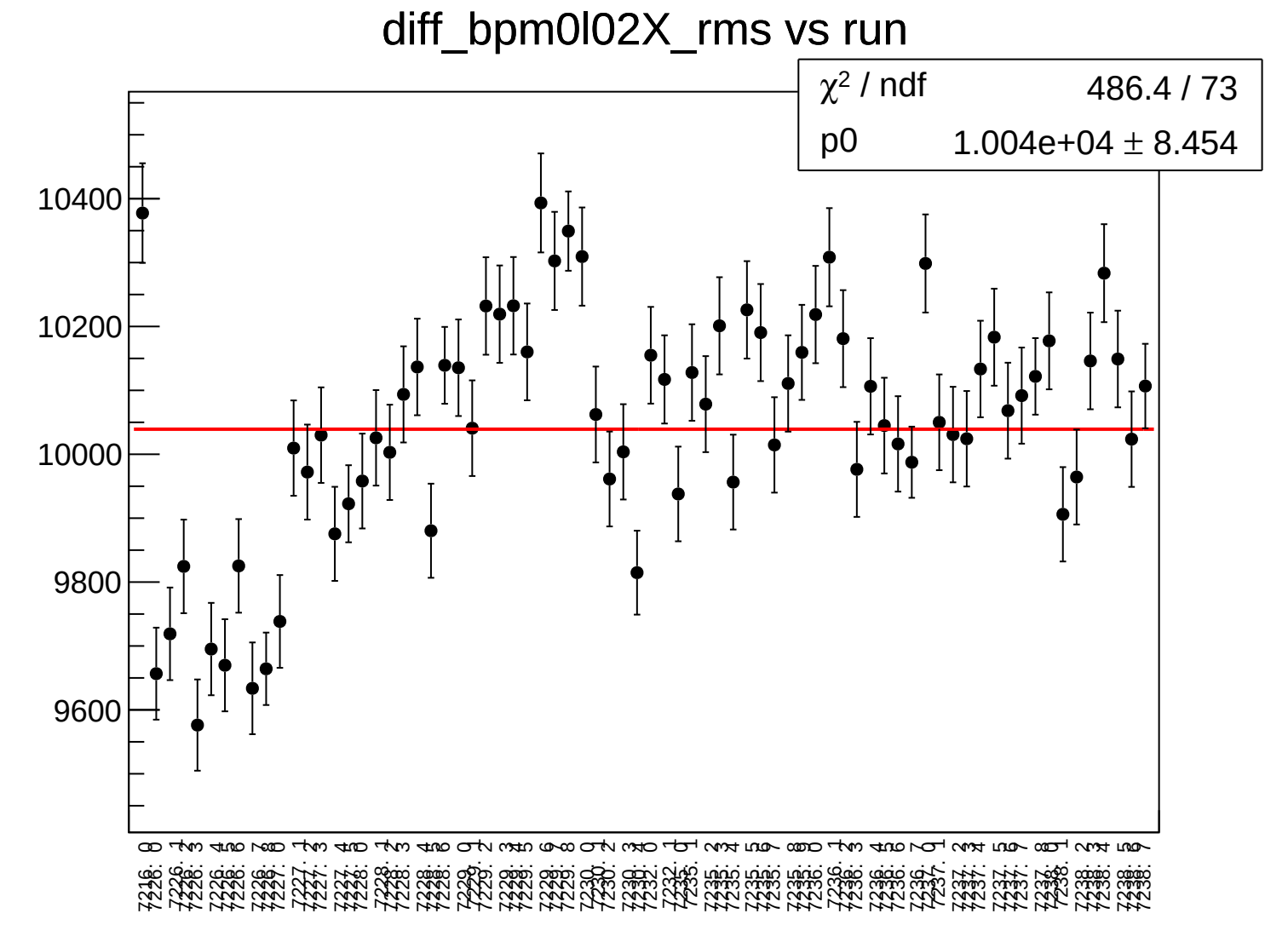

diff_bpm0l01Y_mean vs run
χ² / ndf 101.6 / 73
p0 −2.731 ± 2.786
pull
Entries 74
Mean −55.7
Std Dev 56.85

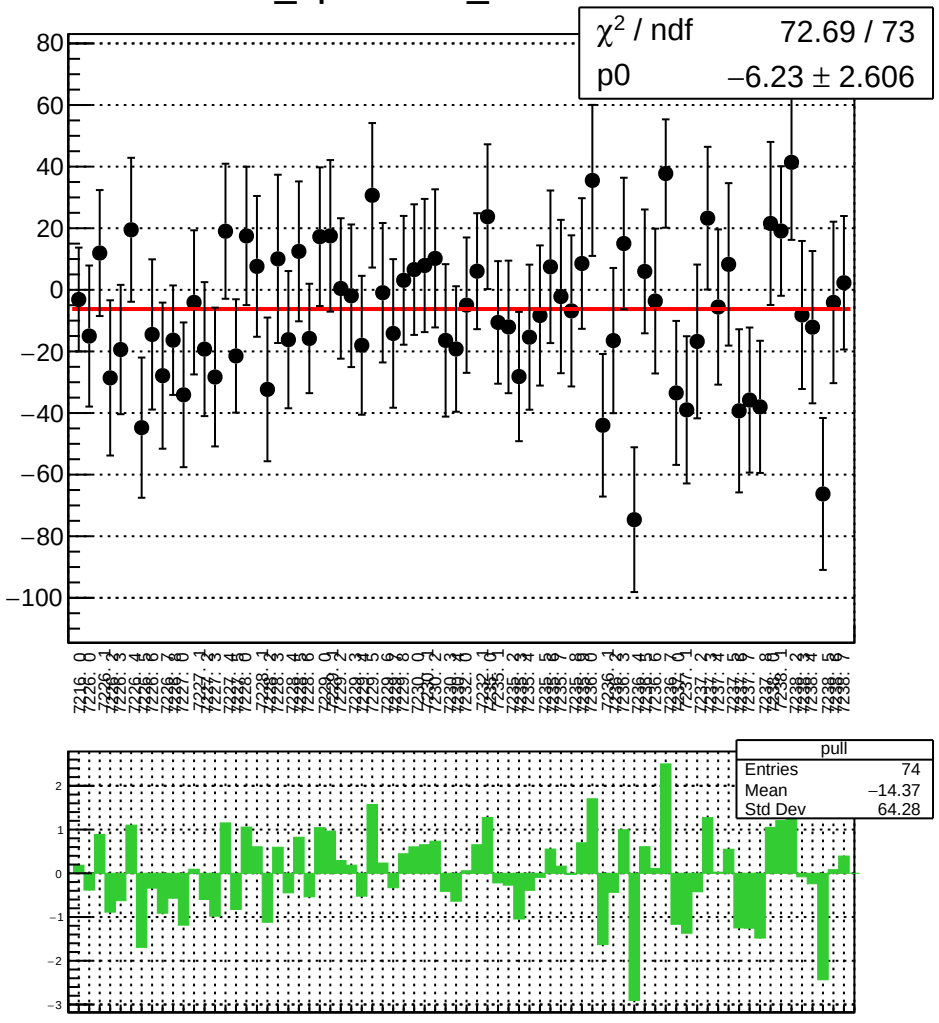

pull1D
Entries 74
Mean −0.02672
Std Dev 1.172

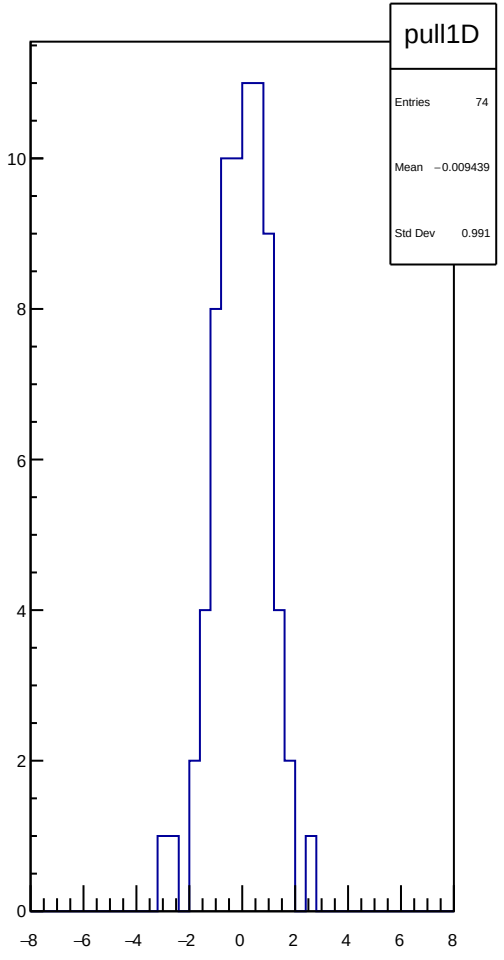

diff_bpm0l01Y_rms vs run
χ² / ndf 4486 / 73
p0 2336 ± 1.97
2900
2800
2700
2600
2500
2400
2300
2200
2100

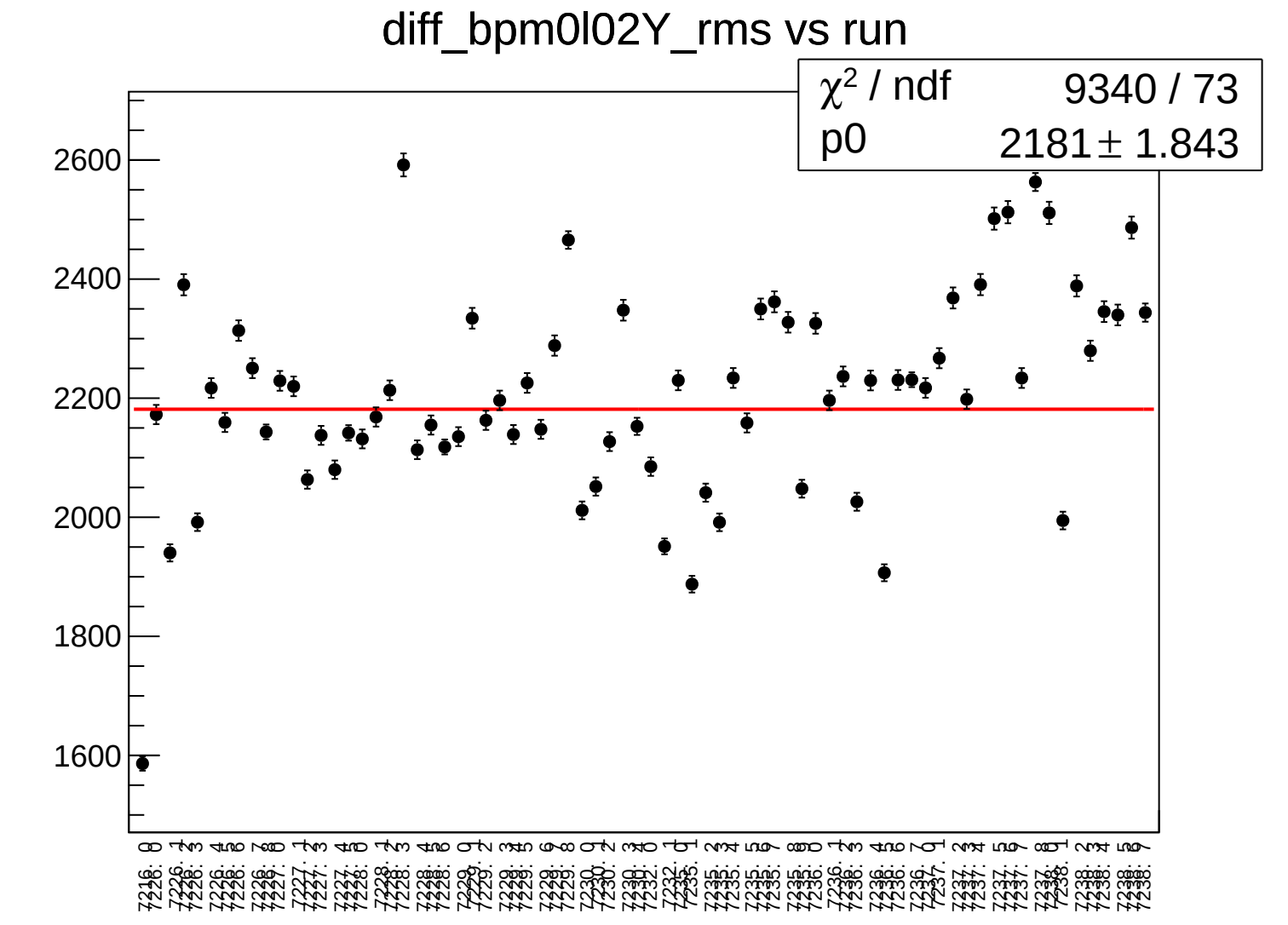

diff_bpm0l02X_mean vs run
χ² / ndf 62.47 / 73
p0 −20.89 ± 11.96
pull
Entries 74
Mean 1217
Std Dev 1180

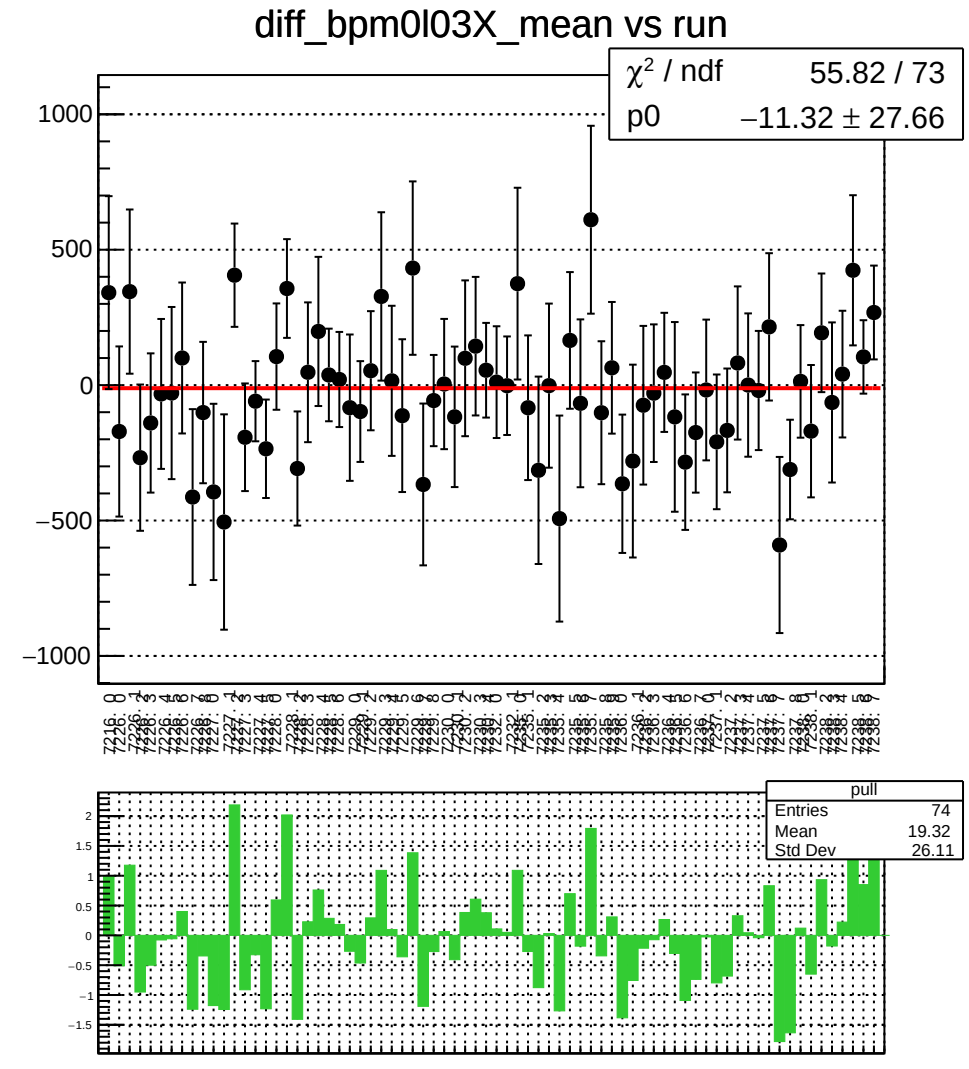

pull1D
Entries 74
Mean 0.003127
Std Dev 0.9188

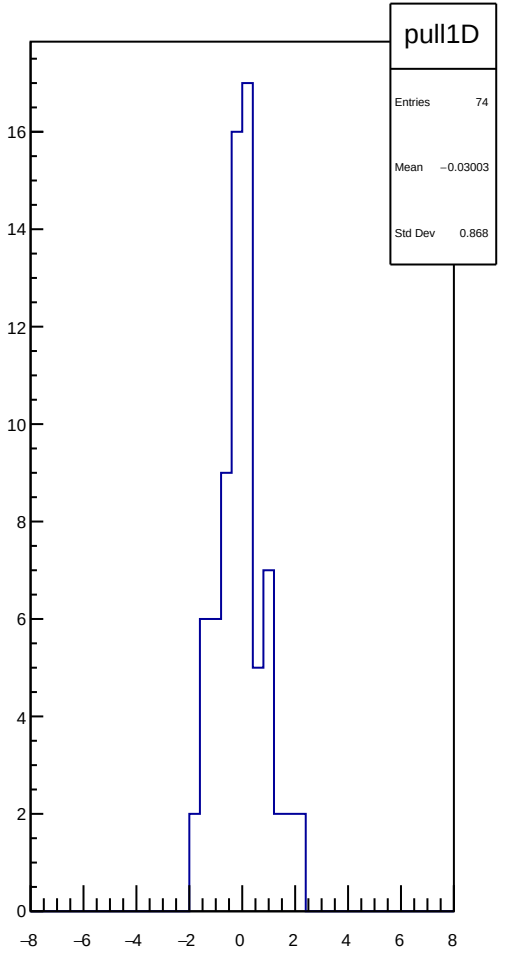

diff_bpm0l02X_rms vs run
χ² / ndf 486.4 / 73
p0 1.004e+04 ± 8.454
10400
10200
10000
9800
9600

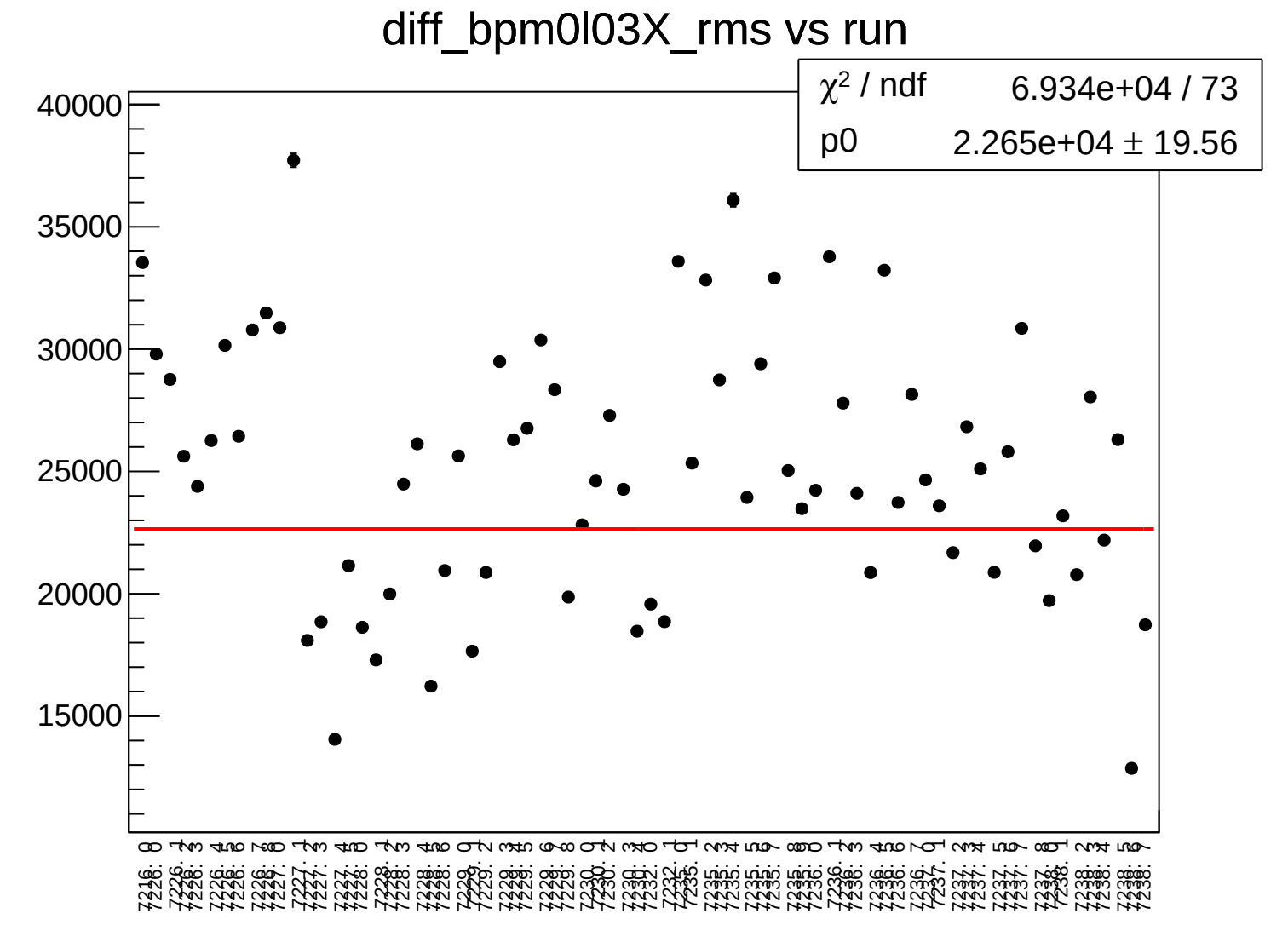

diff_bpm0l02Y_mean vs run
χ² / ndf 72.69 / 73
p0 −6.23 ± 2.606
pull
Entries 74
Mean −14.37
Std Dev 64.28

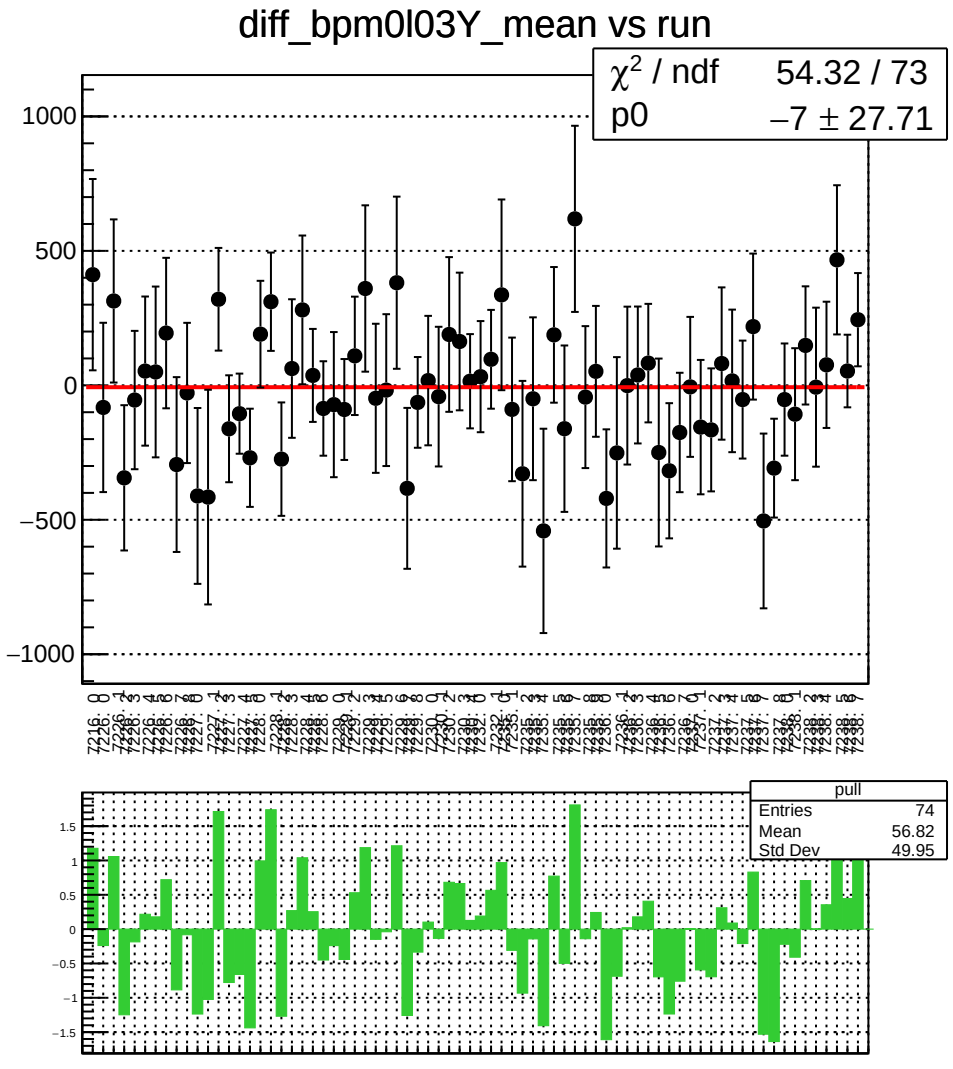

pull1D
Entries 74
Mean −0.009439
Std Dev 0.991

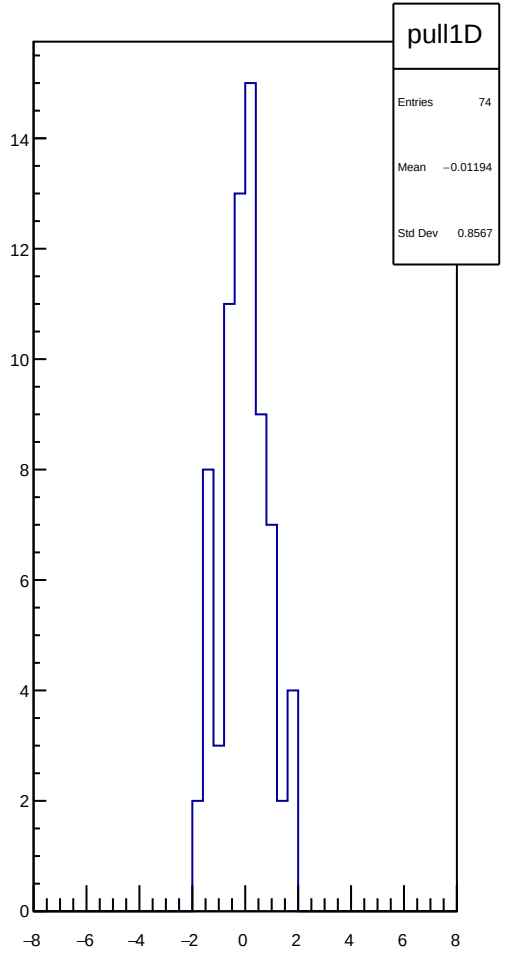

diff_bpm0l02Y_rms vs run
χ² / ndf 9340 / 73
p0 2181 ± 1.843
2600
2400
2200
2000
1800
1600

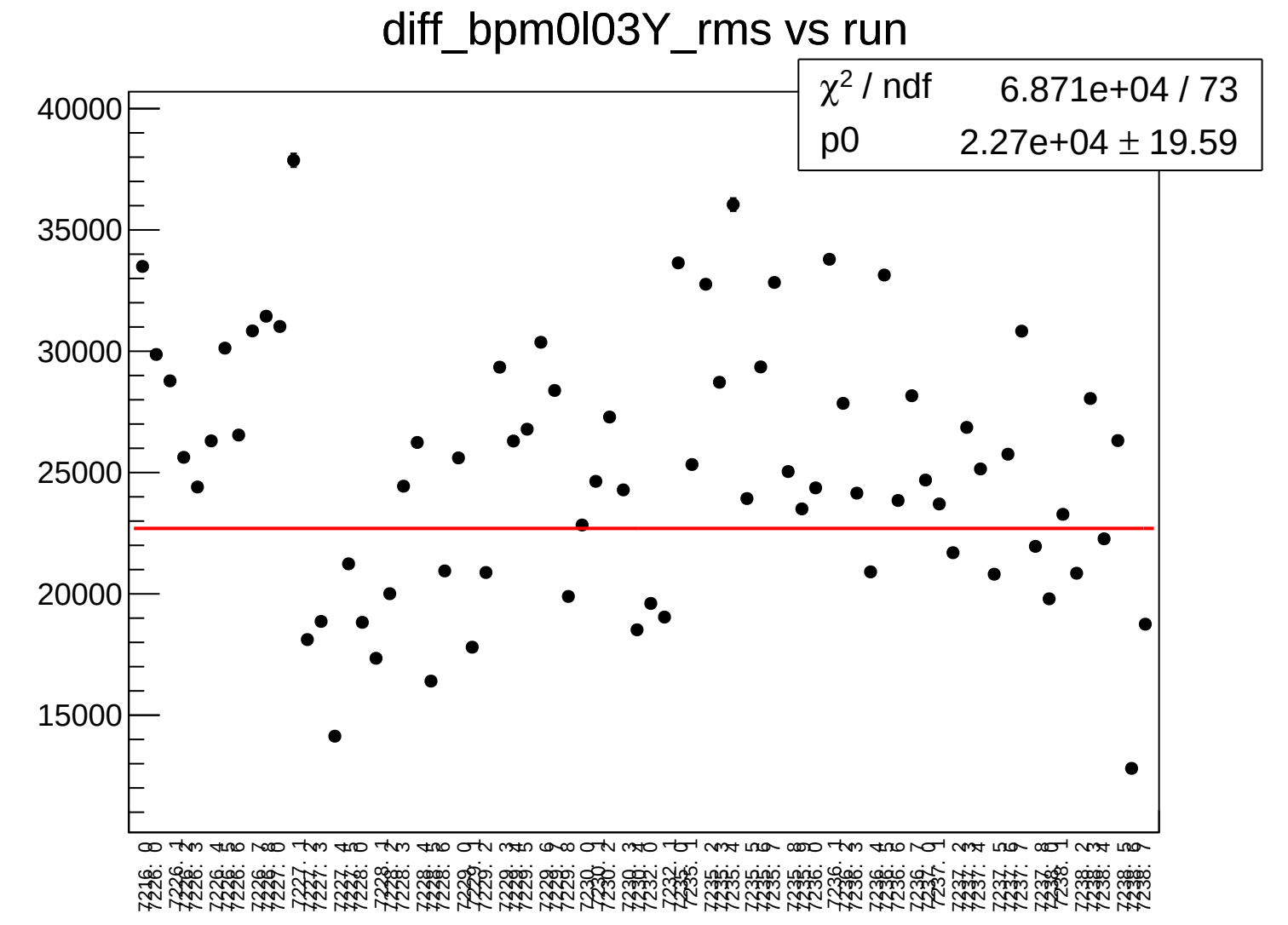

diff_bpm0l03X_mean vs run
χ² / ndf 55.82 / 73
p0 −11.32 ± 27.66
1000
500
0
−500
−1000
pull
Entries 74
Mean 19.32
Std Dev 26.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

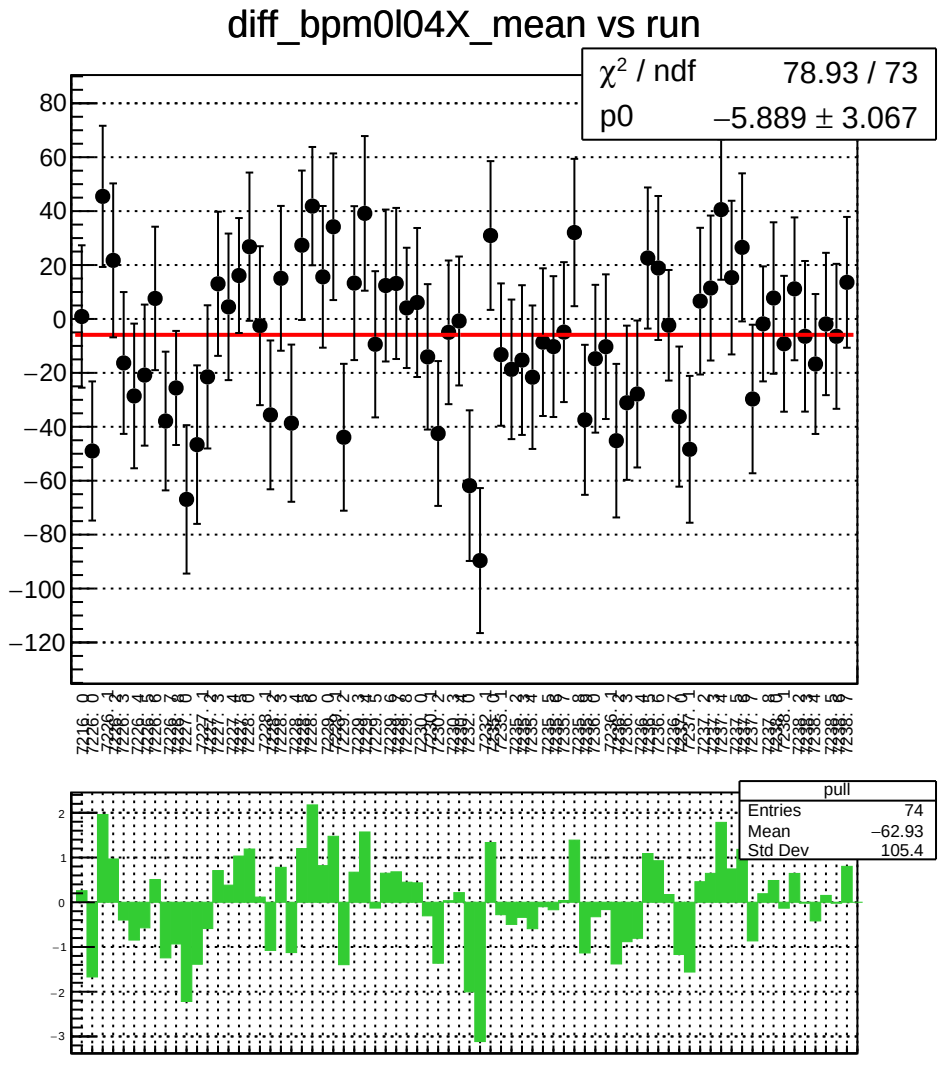

pull1D
Entries 74
Mean −0.03003
Std Dev 0.868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

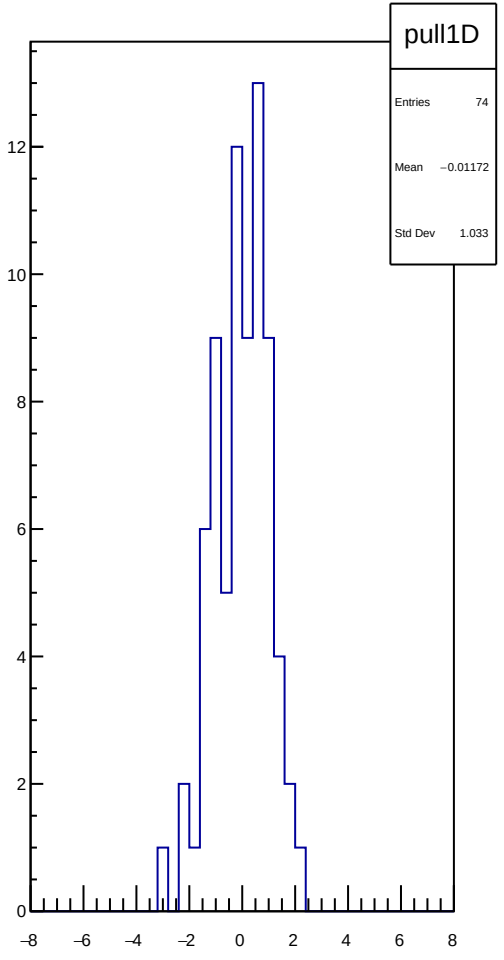

diff_bpm0l03X_rms vs run
χ^2 / ndf 6.934e+04 / 73
p0 2.265e+04 ± 19.56
40000
35000
30000
25000
20000
15000

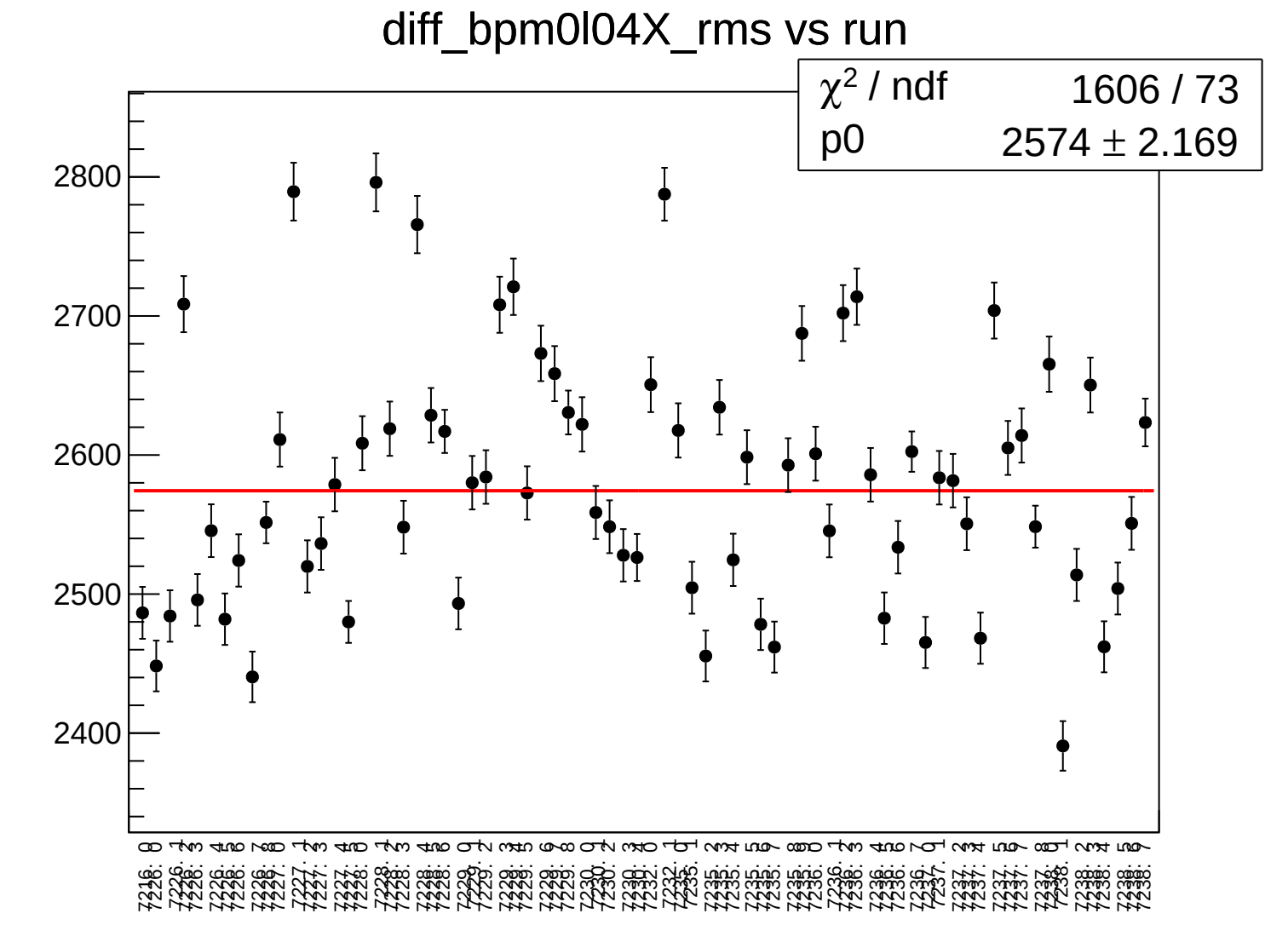

diff_bpm0l03Y_mean vs run
χ^2 / ndf 54.32 / 73
p0 −7 ± 27.71
1000
500
0
−500
−1000
pull
Entries 74
Mean 56.82
Std Dev 49.95
1.5
1
0.5
0
−0.5
−1
−1.5

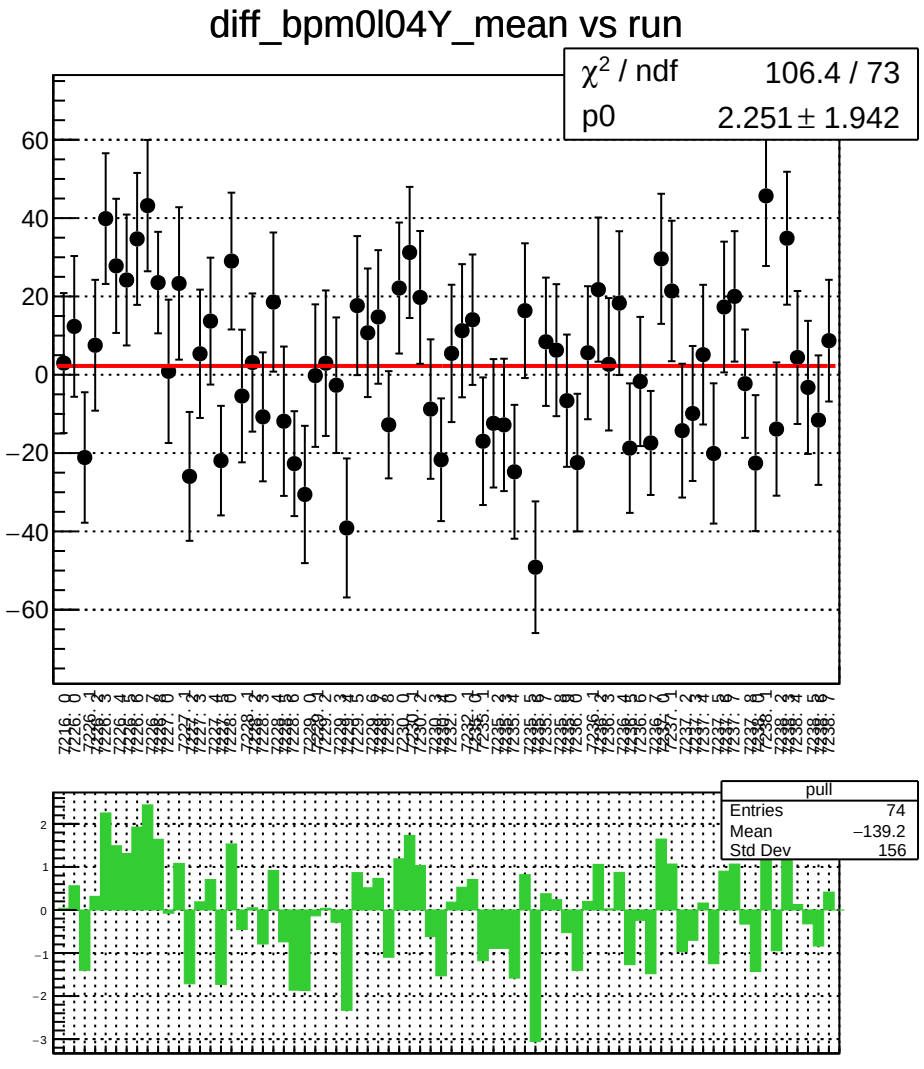

pull1D
Entries 74
Mean −0.01194
Std Dev 0.8567
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

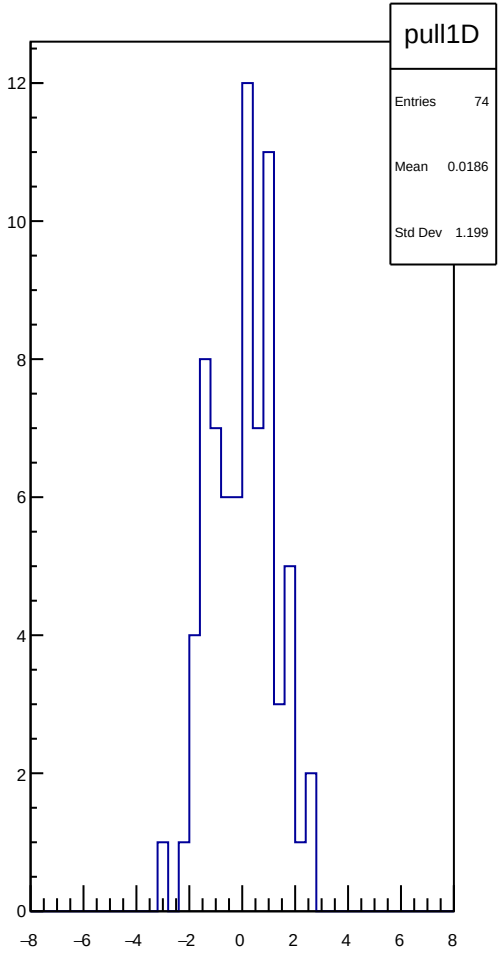

diff_bpm0l03Y_rms vs run
χ^2 / ndf 6.871e+04 / 73
p0 2.27e+04 ± 19.59
40000
35000
30000
25000
20000
15000

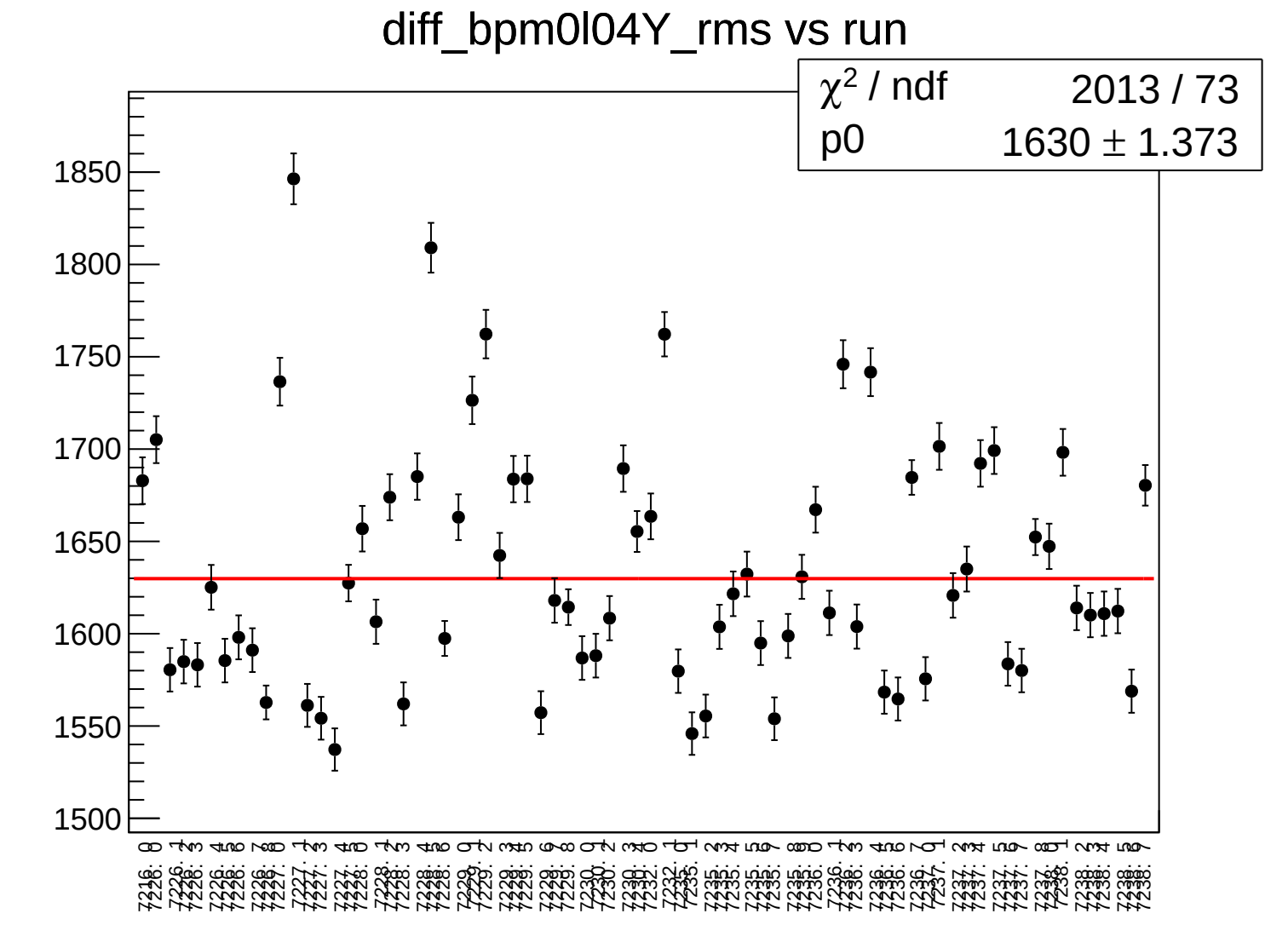

diff_bpm0l04X_mean vs run
χ² / ndf 78.93 / 73
p0 −5.889 ± 3.067
pull
Entries 74
Mean −62.93
Std Dev 105.4

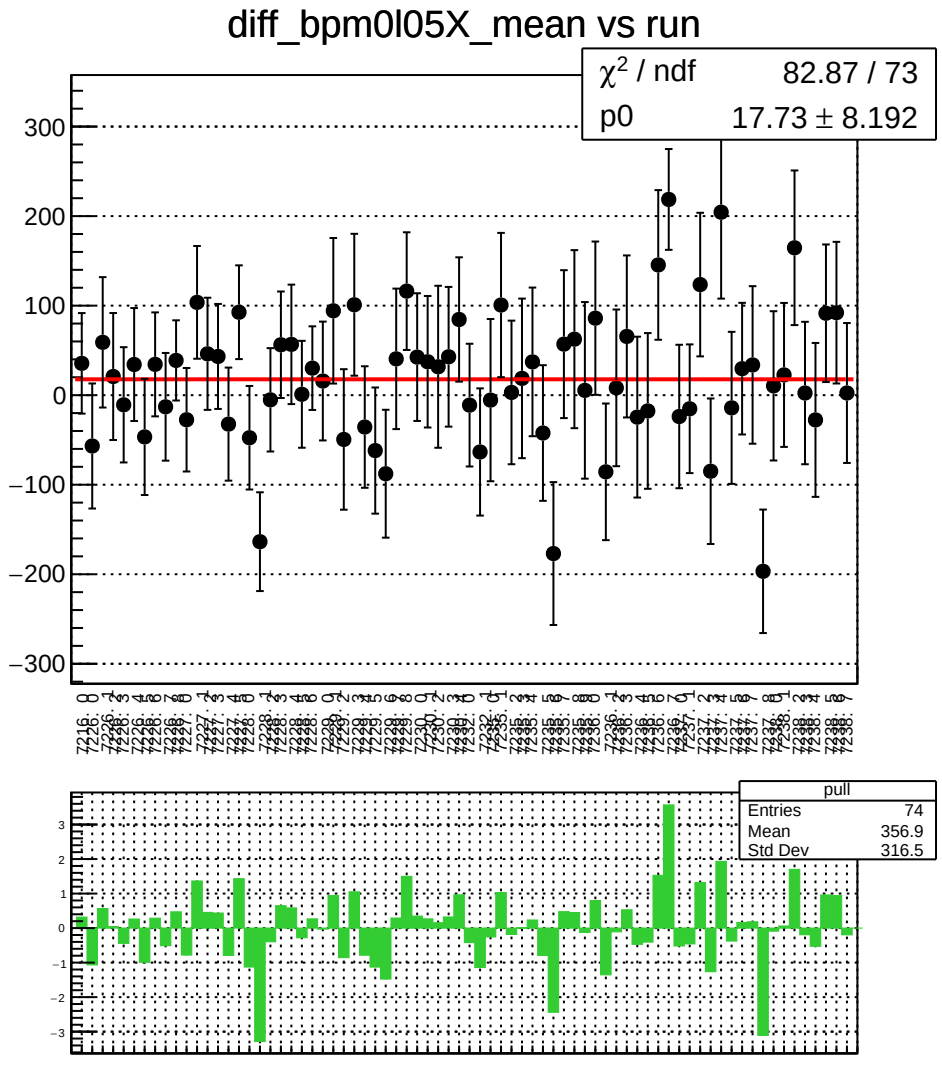

pull1D
Entries 74
Mean −0.01172
Std Dev 1.033

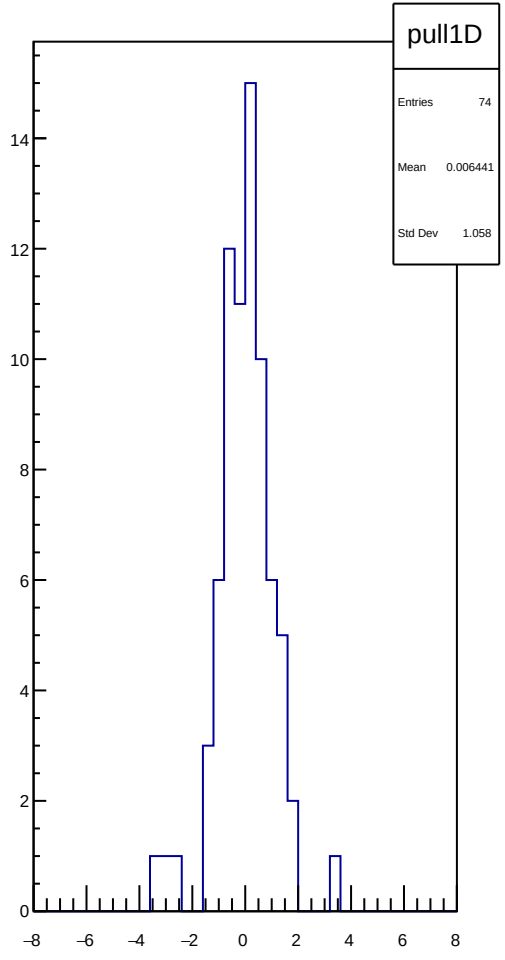

diff_bpm0l04X_rms vs run
χ^2 / ndf 1606 / 73
p0 2574 ± 2.169
2800
2700
2600
2500
2400

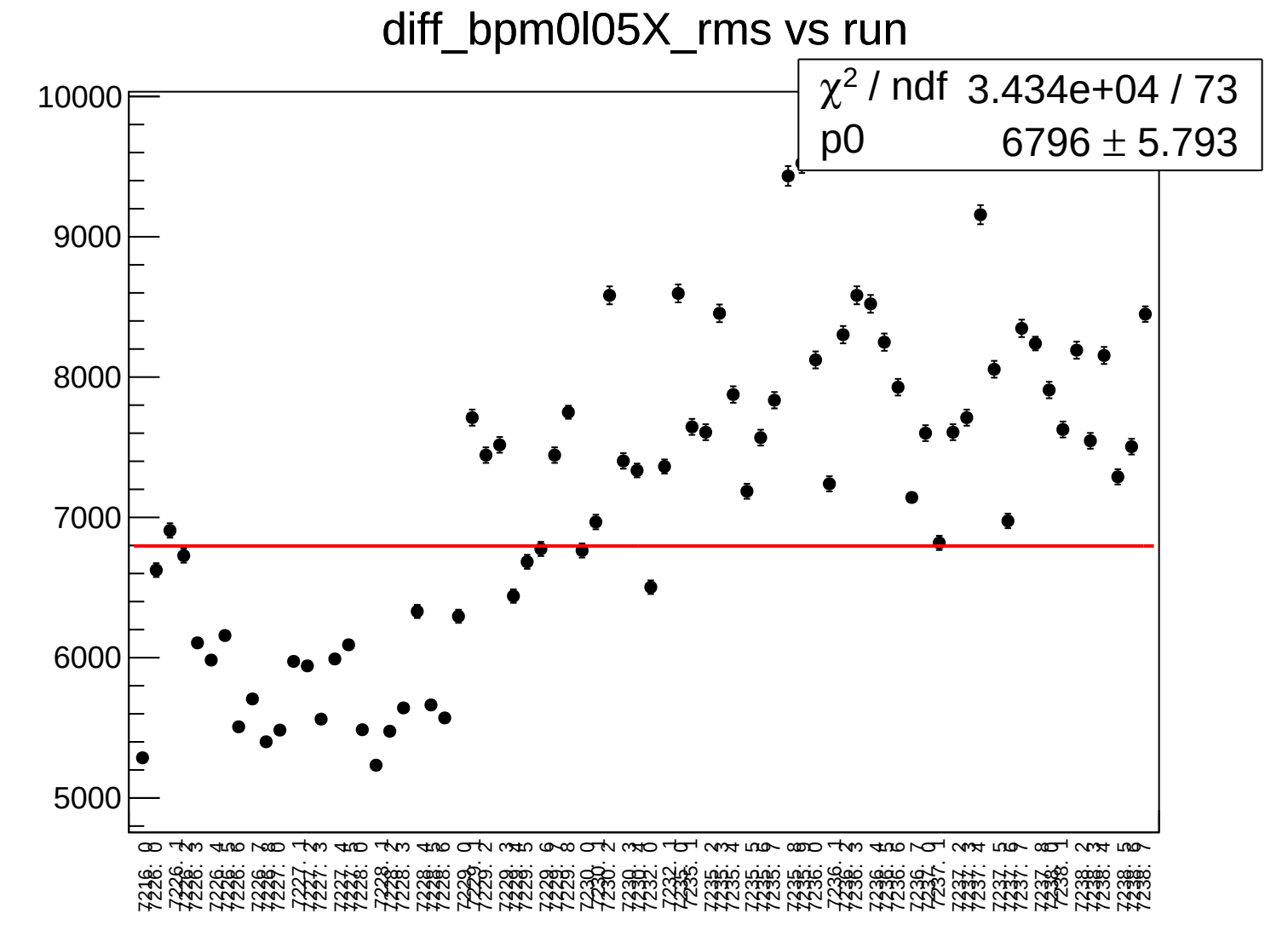

diff_bpm0l04Y_mean vs run
χ² / ndf 106.4 / 73
p0 2.251 ± 1.942
pull
Entries 74
Mean −139.2
Std Dev 156

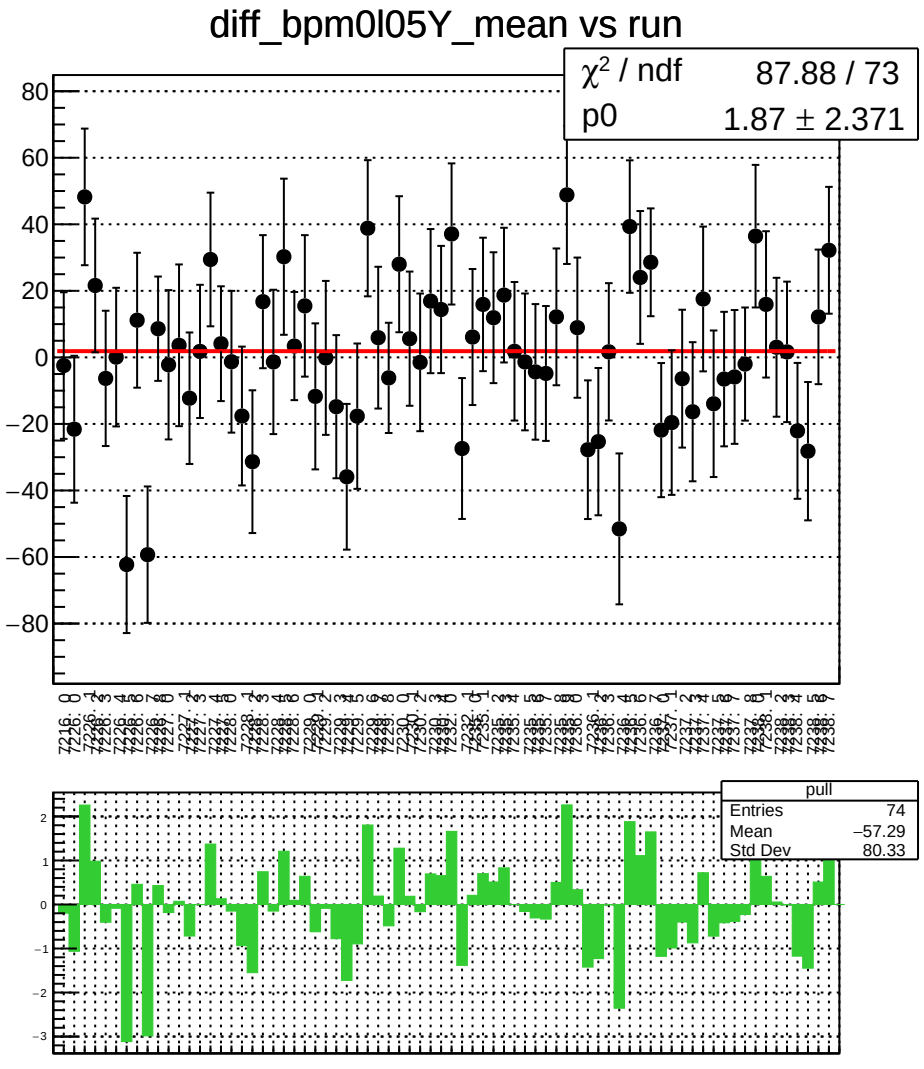

pull1D
Entries 74
Mean 0.0186
Std Dev 1.199

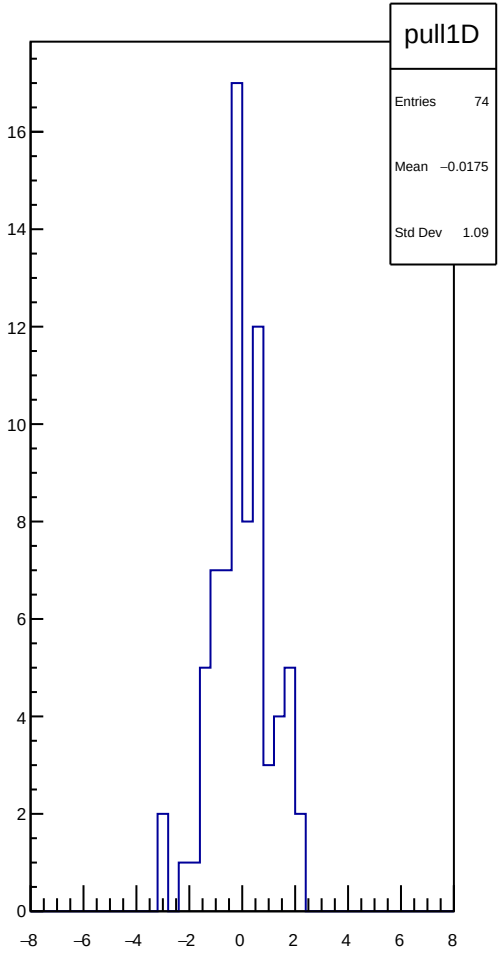

diff_bpm0l04Y_rms vs run
χ² / ndf 2013 / 73
p0 1630 ± 1.373
1850
1800
1750
1700
1650
1600
1550
1500

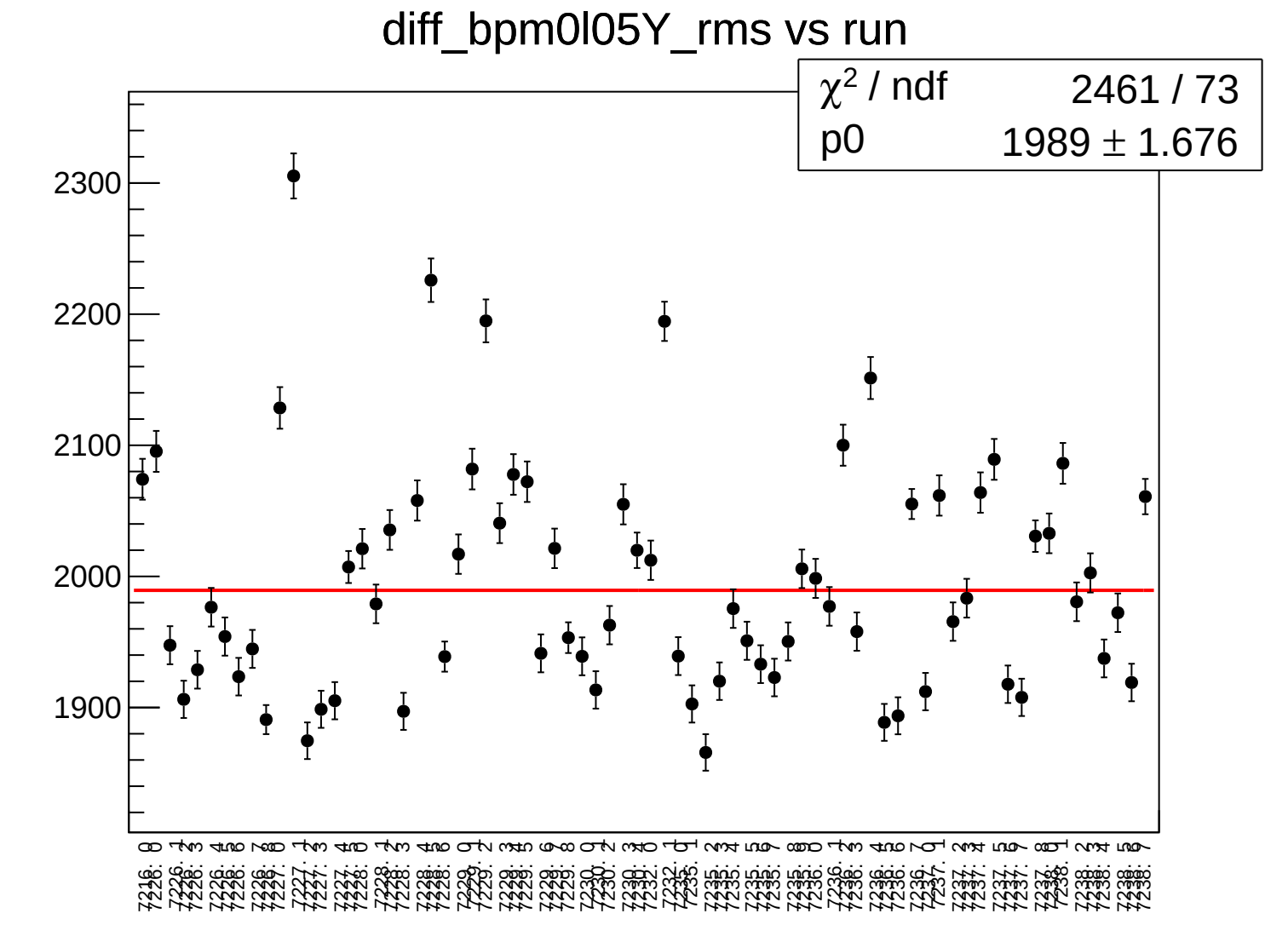

diff_bpm0l05X_mean vs run
χ² / ndf 82.87 / 73
p0 17.73 ± 8.192
pull
Entries 74
Mean 356.9
Std Dev 316.5

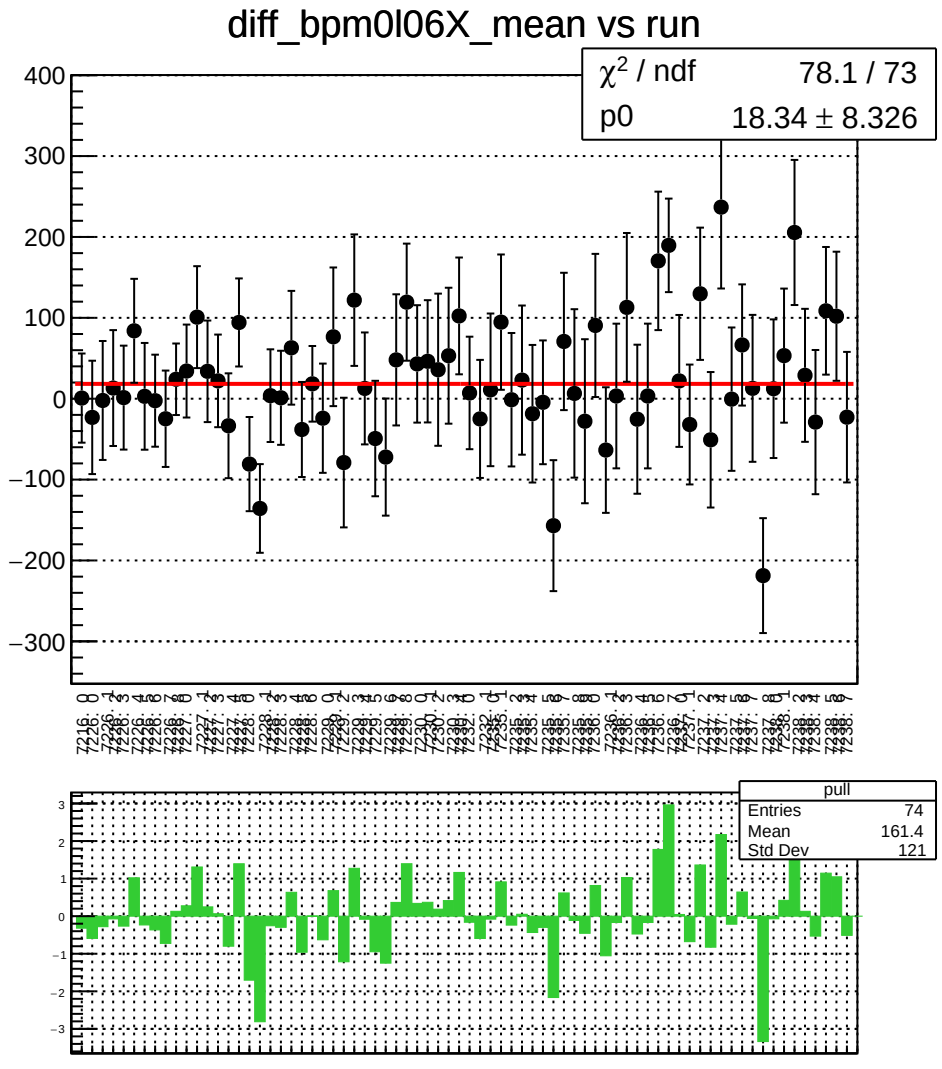

pull1D
Entries 74
Mean 0.006441
Std Dev 1.058

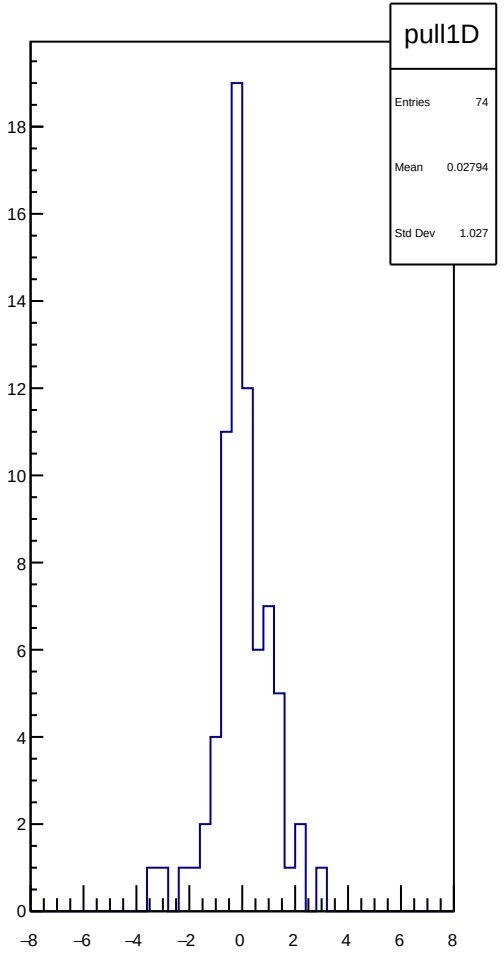

diff_bpm0l05X_rms vs run
χ² / ndf 3.434e+04 / 73
p0 6796 ± 5.793
10000
9000
8000
7000
6000
5000

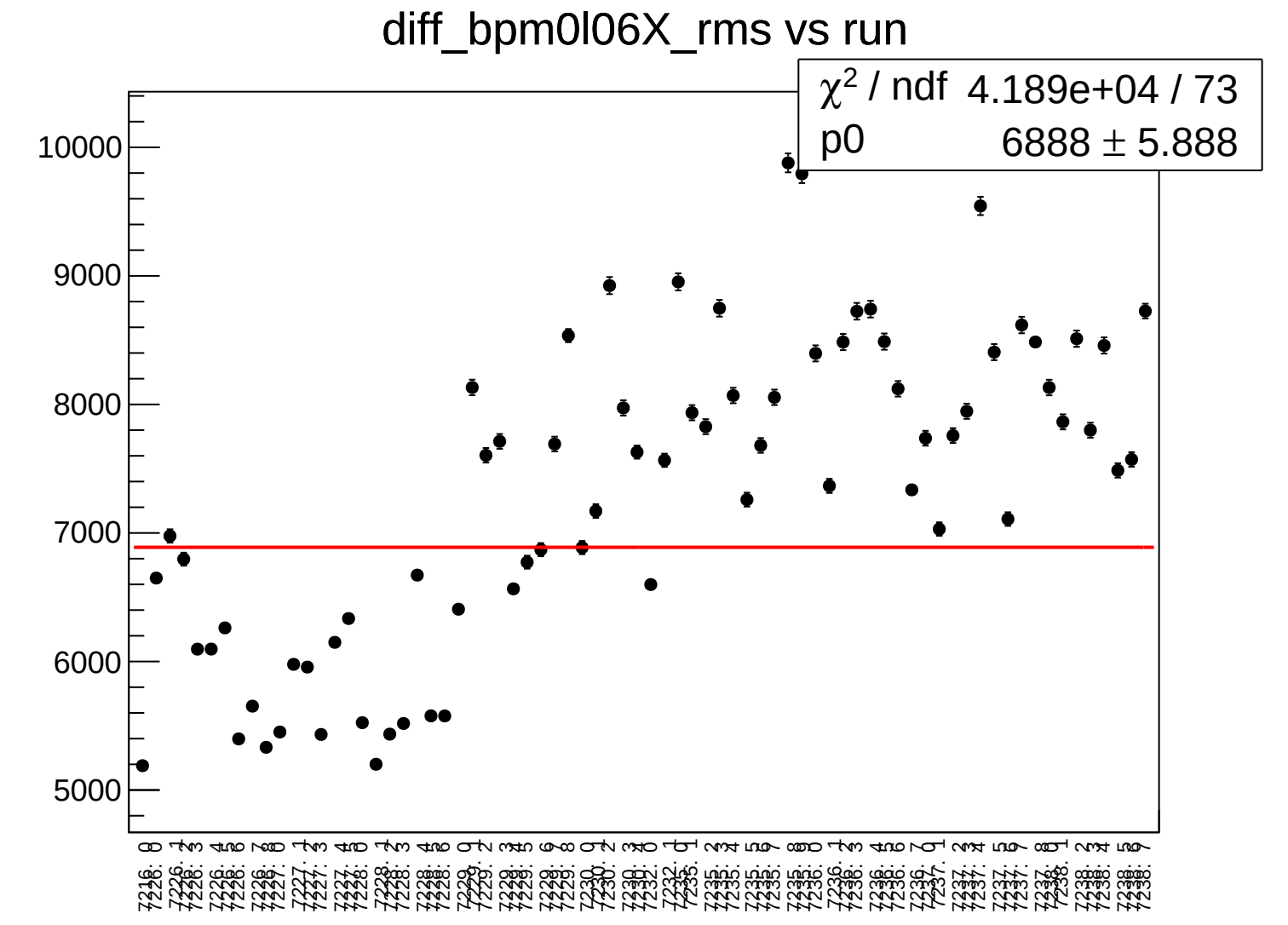

diff_bpm0l05Y_mean vs run
χ² / ndf 87.88 / 73
p0 1.87 ± 2.371
pull
Entries 74
Mean −57.29
Std Dev 80.33

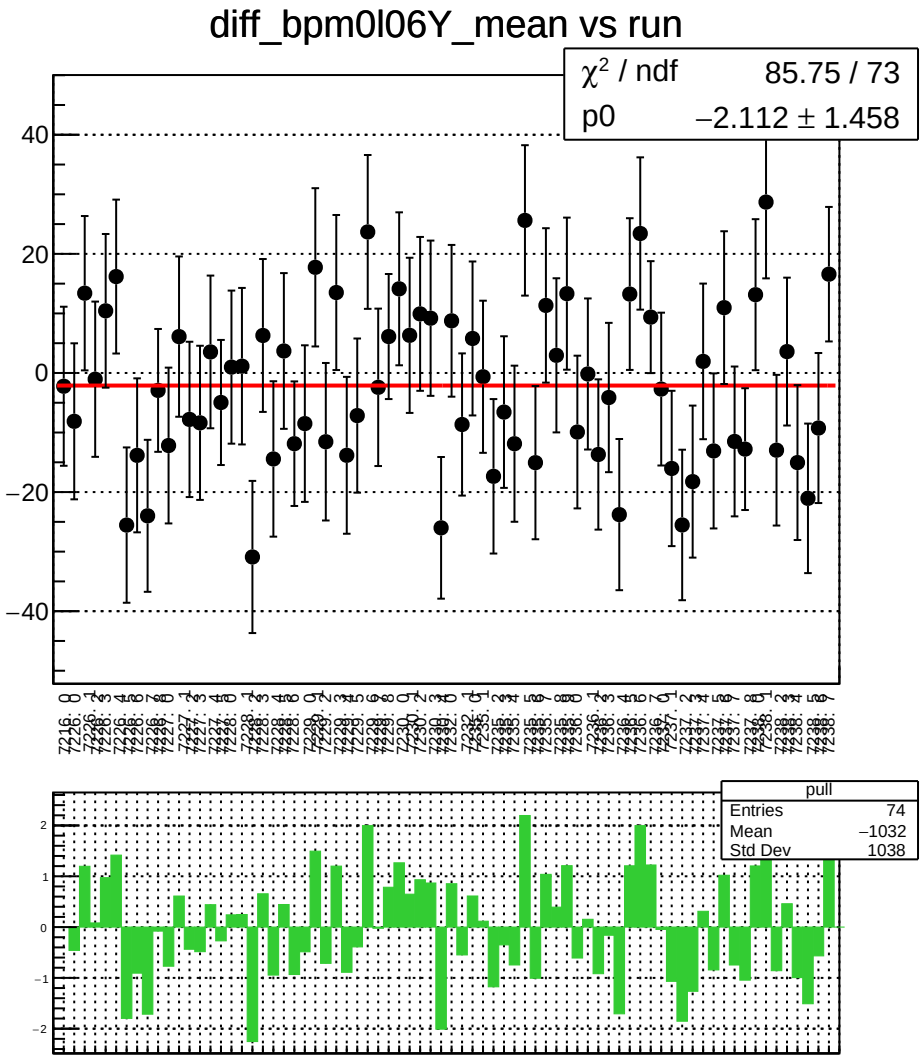

pull1D
Entries 74
Mean −0.0175
Std Dev 1.09

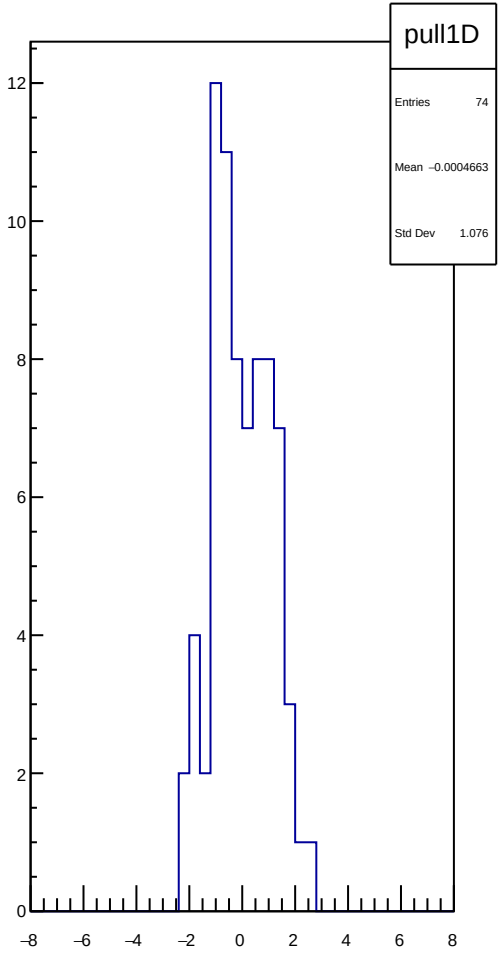

diff_bpm0l05Y_rms vs run
χ² / ndf 2461 / 73
p0 1989 ± 1.676
2300
2200
2100
2000
1900

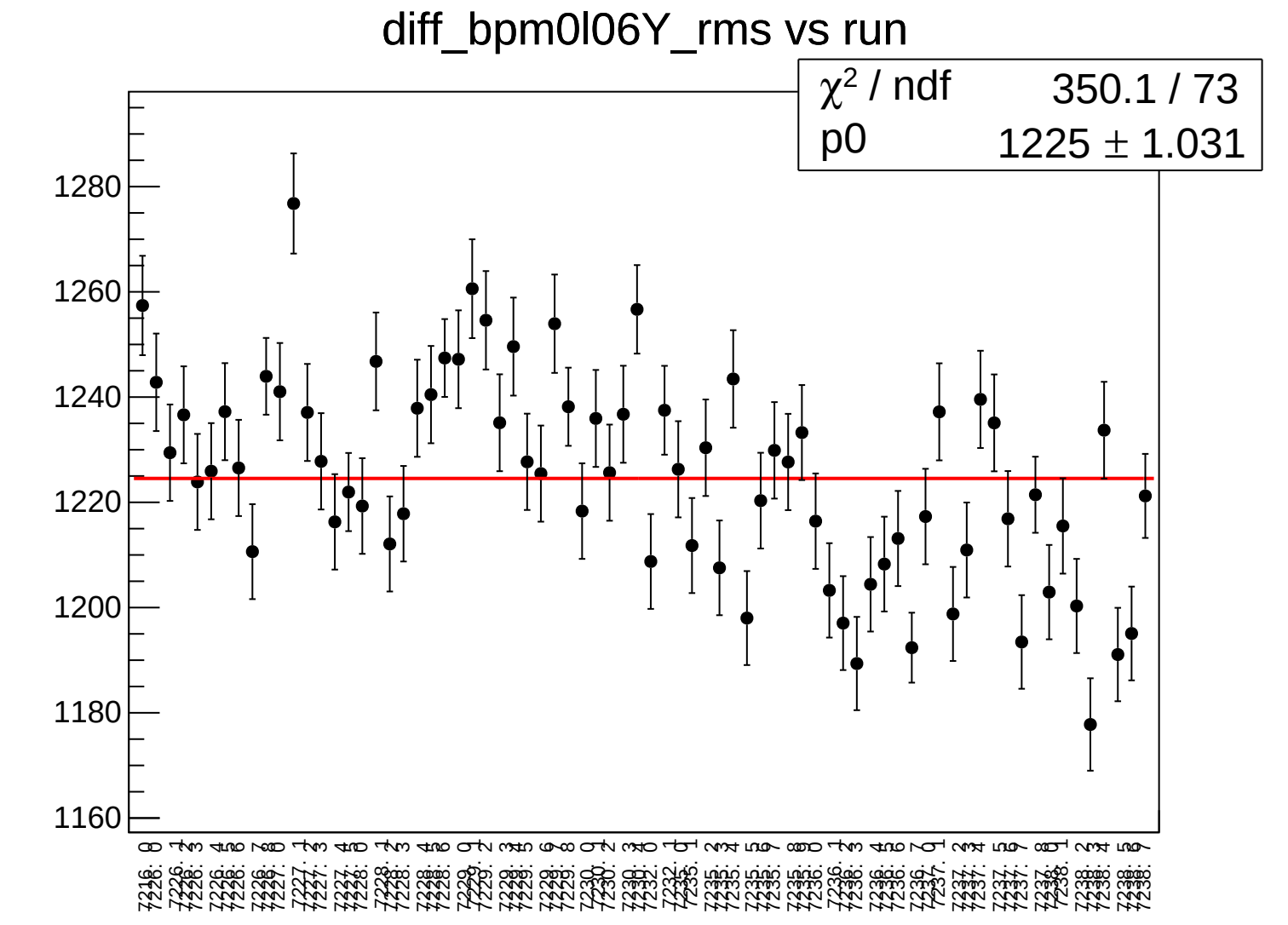

diff_bpm0l06X_mean vs run
χ² / ndf 78.1 / 73
p0 18.34 ± 8.326
pull
Entries 74
Mean 161.4
Std Dev 121

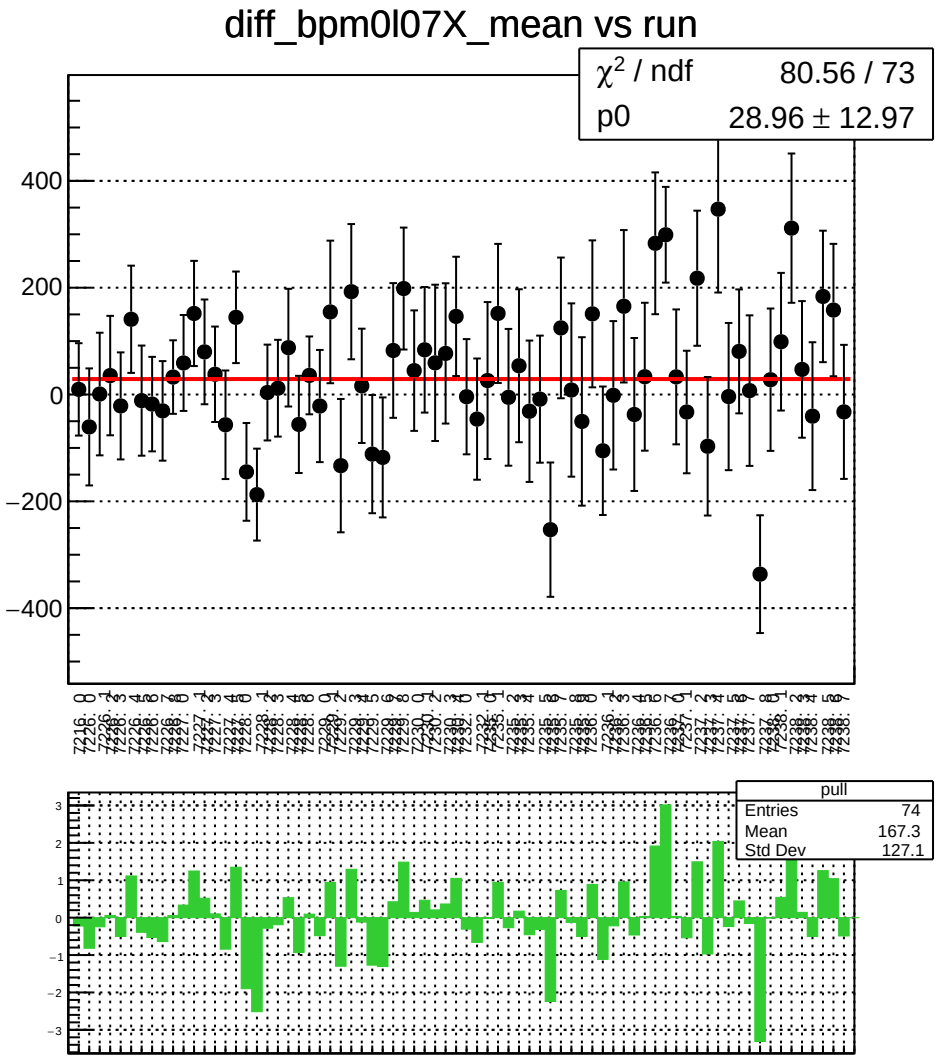

pull1D
Entries 74
Mean 0.02794
Std Dev 1.027

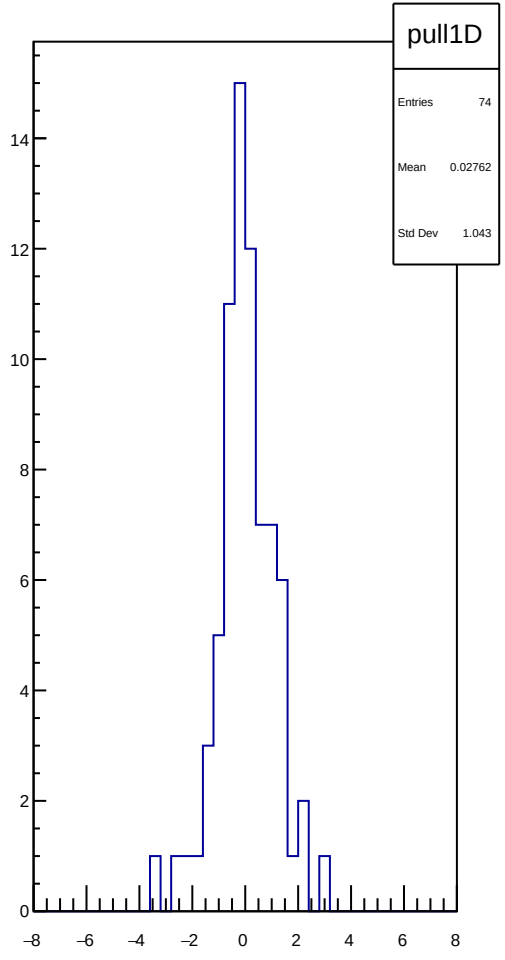

diff_bpm0l06X_rms vs run
χ^2 / ndf 4.189e+04 / 73
p0 6888 ± 5.888
10000
9000
8000
7000
6000
5000

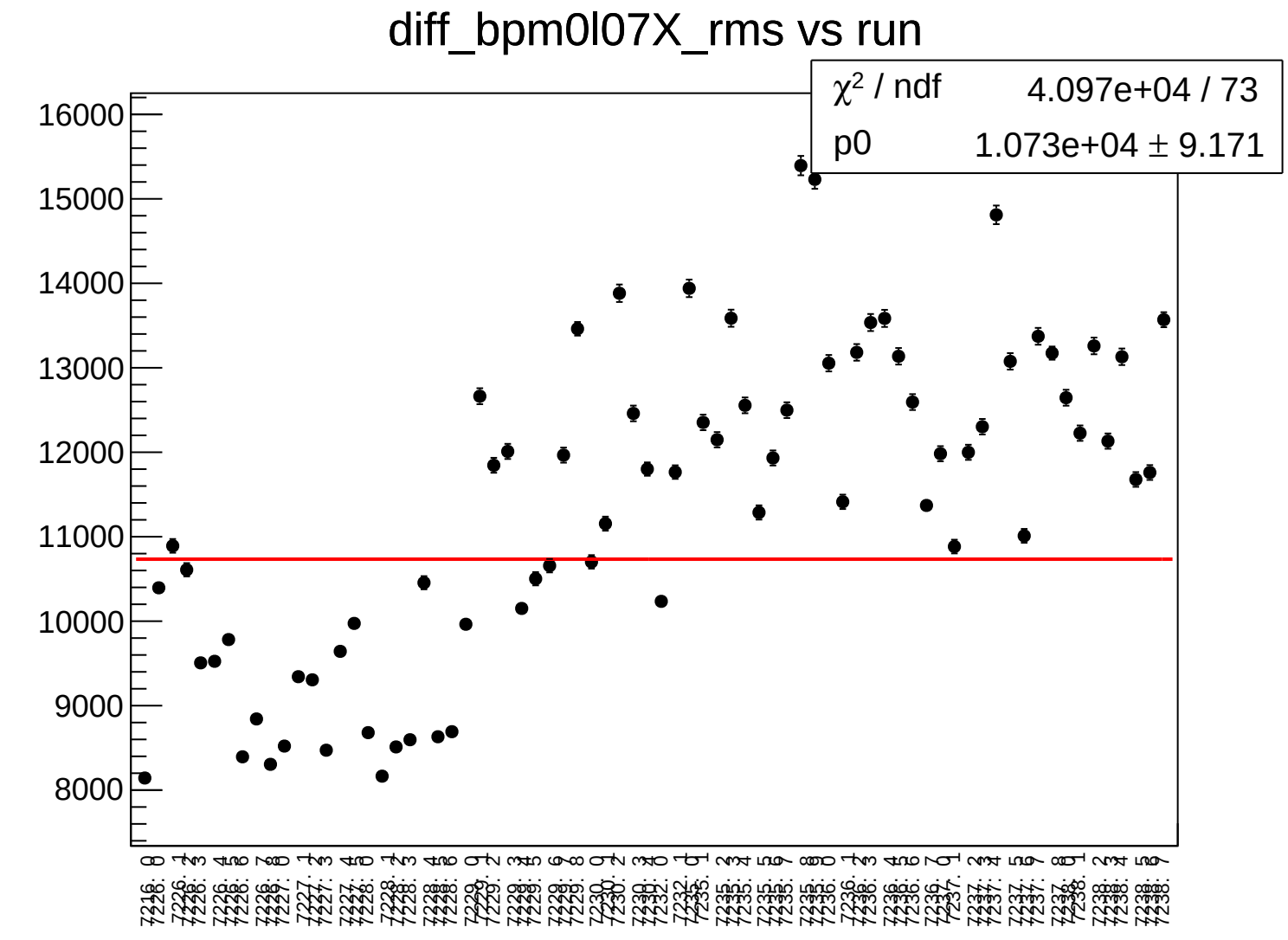

diff_bpm0l06Y_mean vs run
χ² / ndf 85.75 / 73
p0 −2.112 ± 1.458
pull
Entries 74
Mean −1032
Std Dev 1038

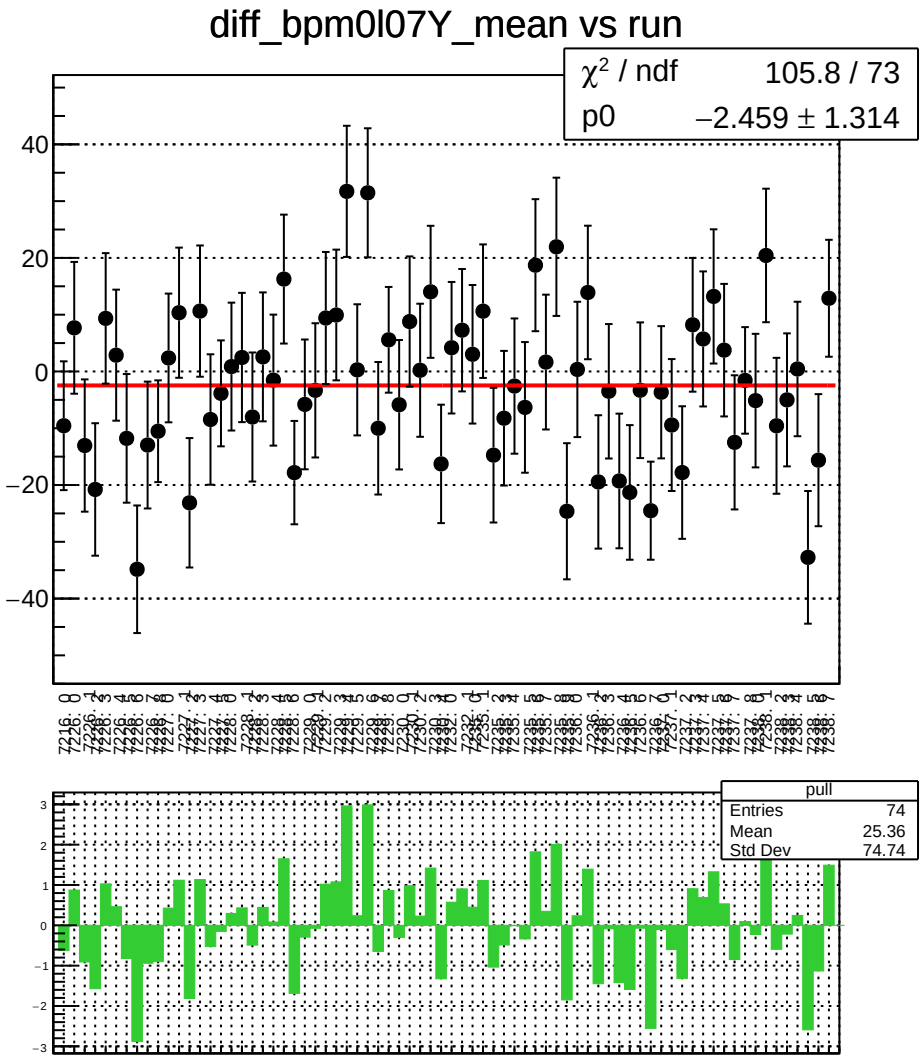

pull1D
Entries 74
Mean −0.0004663
Std Dev 1.076

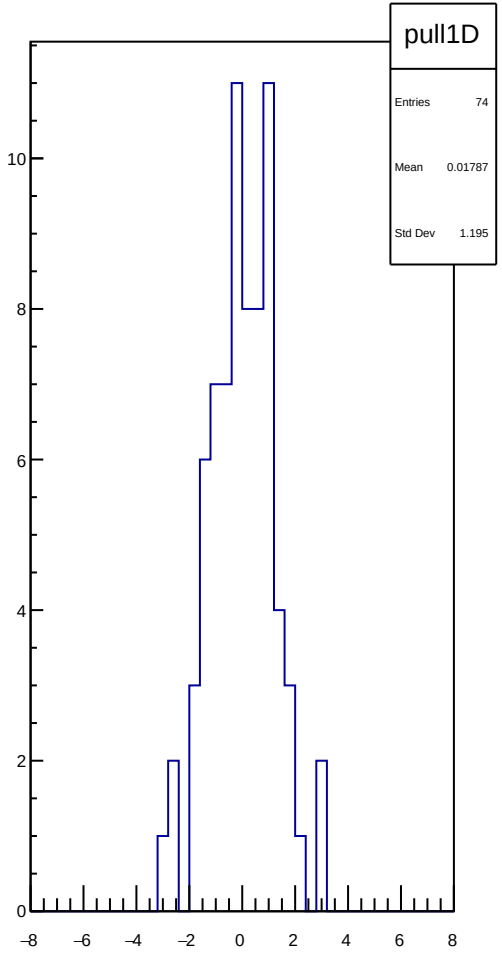

diff_bpm0l06Y_rms vs run
χ² / ndf 350.1 / 73
p0 1225 ± 1.031
1280
1260
1240
1220
1200
1180
1160

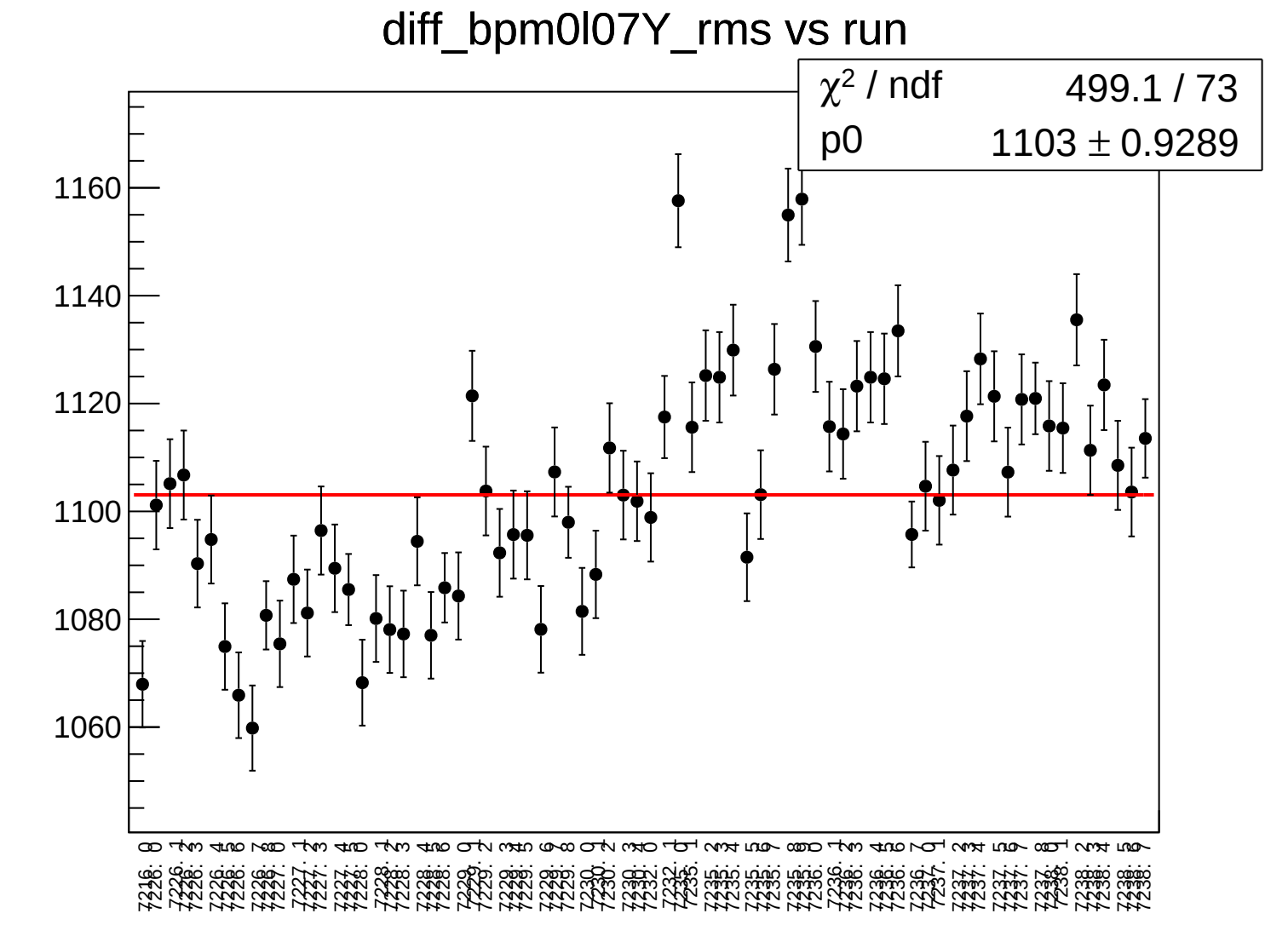

diff_bpm0l07X_mean vs run
χ² / ndf 80.56 / 73
p0 28.96 ± 12.97
400
200
0
−200
−400
pull
Entries 74
Mean 167.3
Std Dev 127.1
3
2
1
0
−1
−2
−3

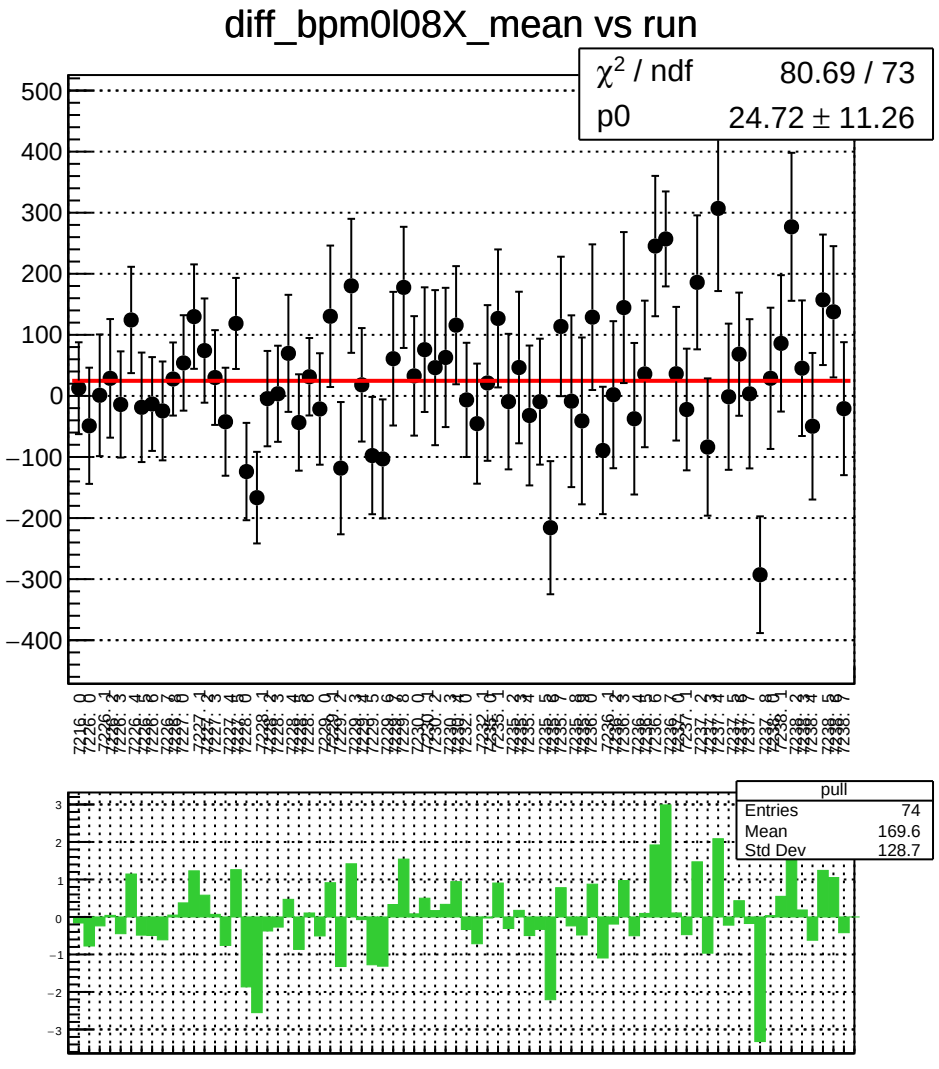

pull1D
Entries 74
Mean 0.02762
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

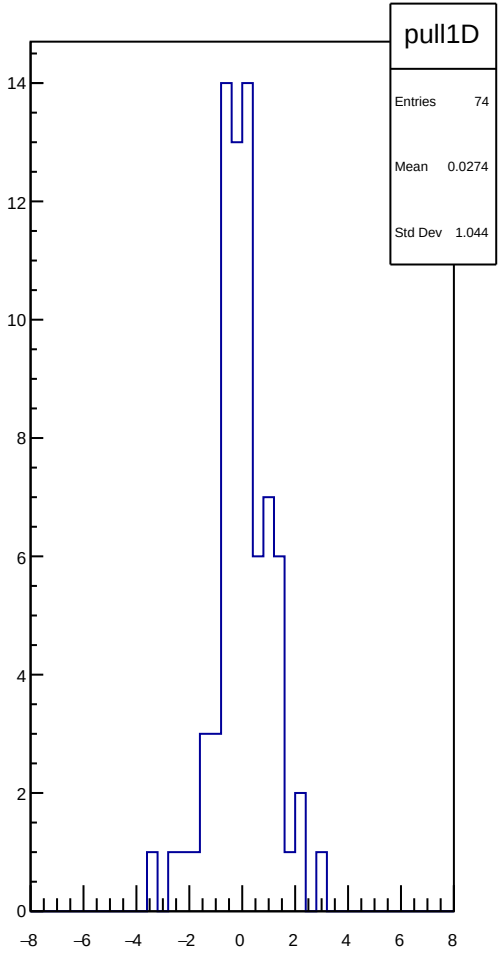

diff_bpm0l07X_rms vs run
χ^2 / ndf 4.097e+04 / 73
p0 1.073e+04 ± 9.171
16000
15000
14000
13000
12000
11000
10000
9000
8000

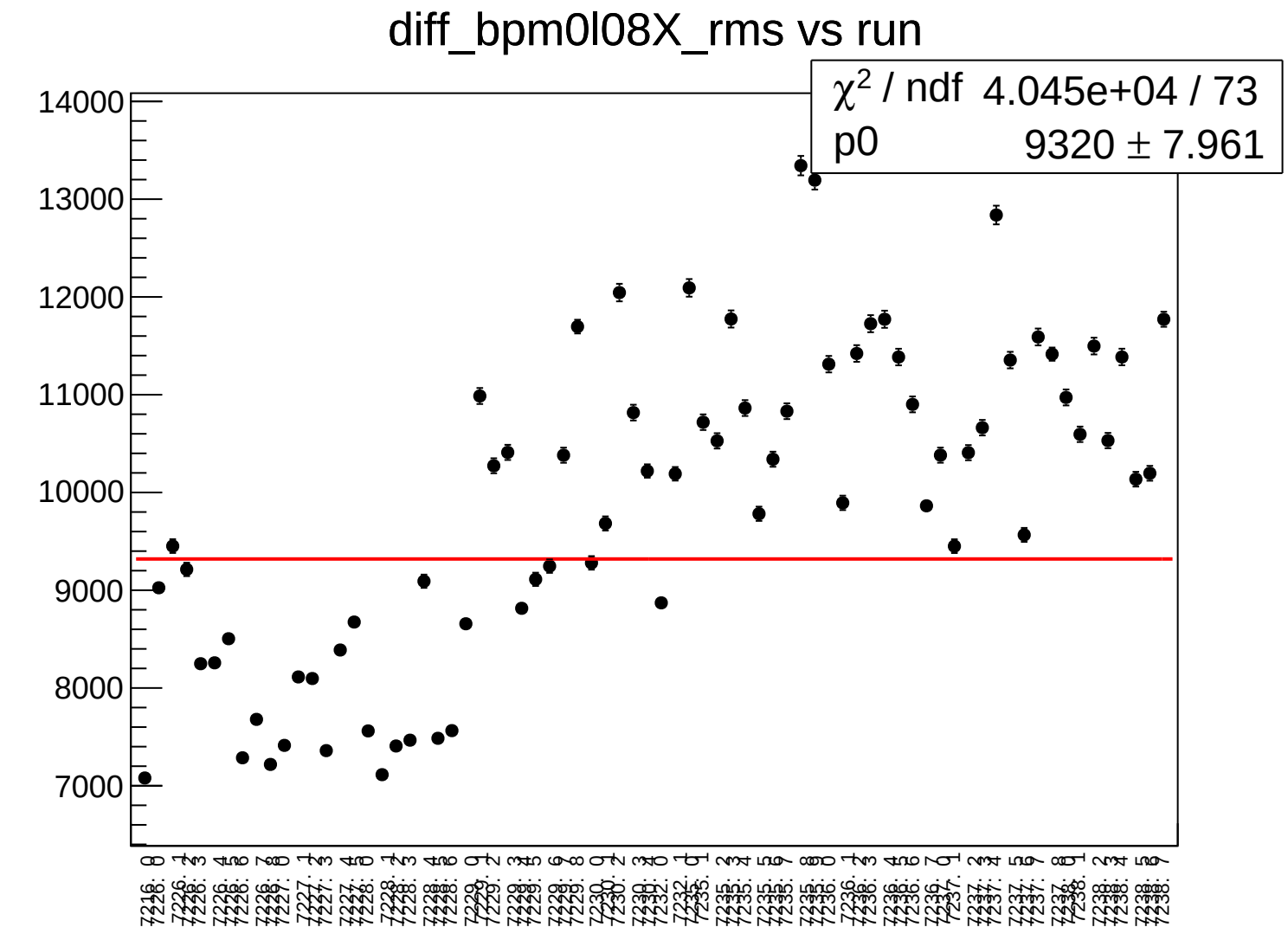

diff_bpm0l07Y_mean vs run
χ² / ndf 105.8 / 73
p0 −2.459 ± 1.314
pull
Entries 74
Mean 25.36
Std Dev 74.74

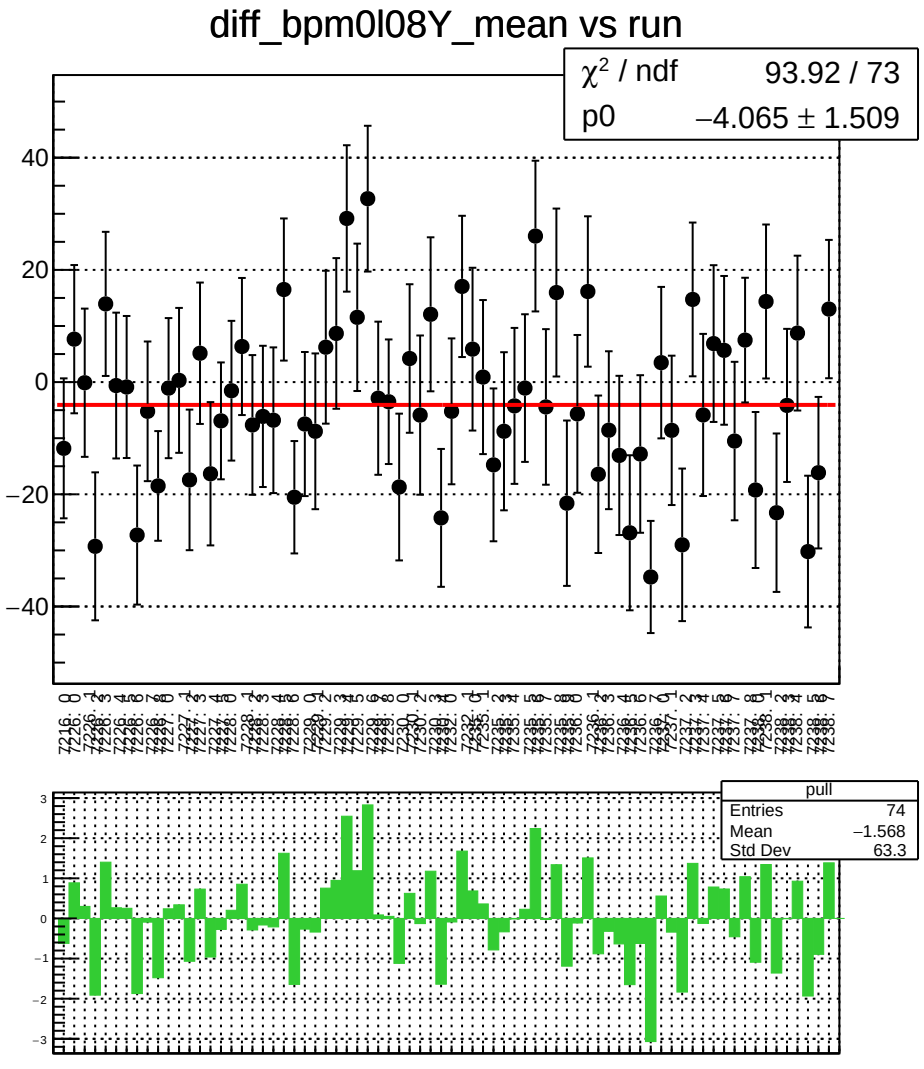

pull1D
Entries 74
Mean 0.01787
Std Dev 1.195

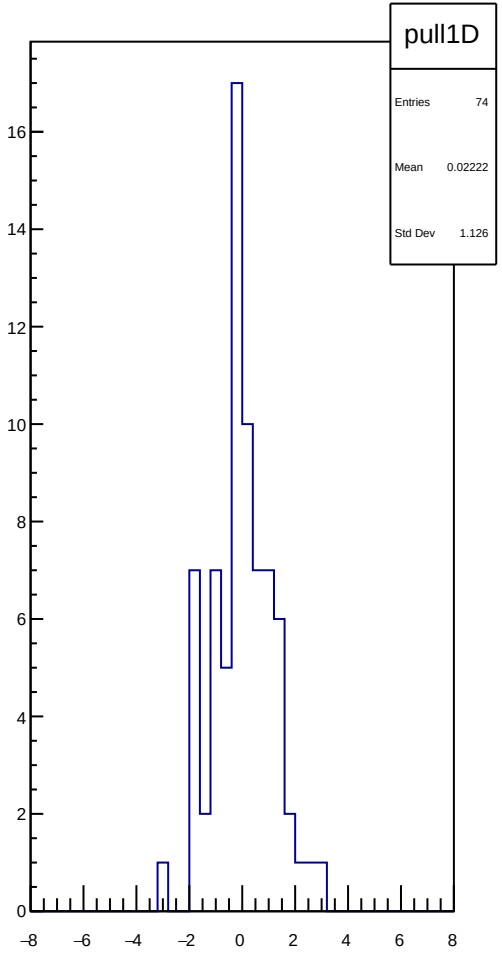

diff_bpm0l07Y_rms vs run
χ² / ndf 499.1 / 73
p0 1103 ± 0.9289
1160
1140
1120
1100
1080
1060

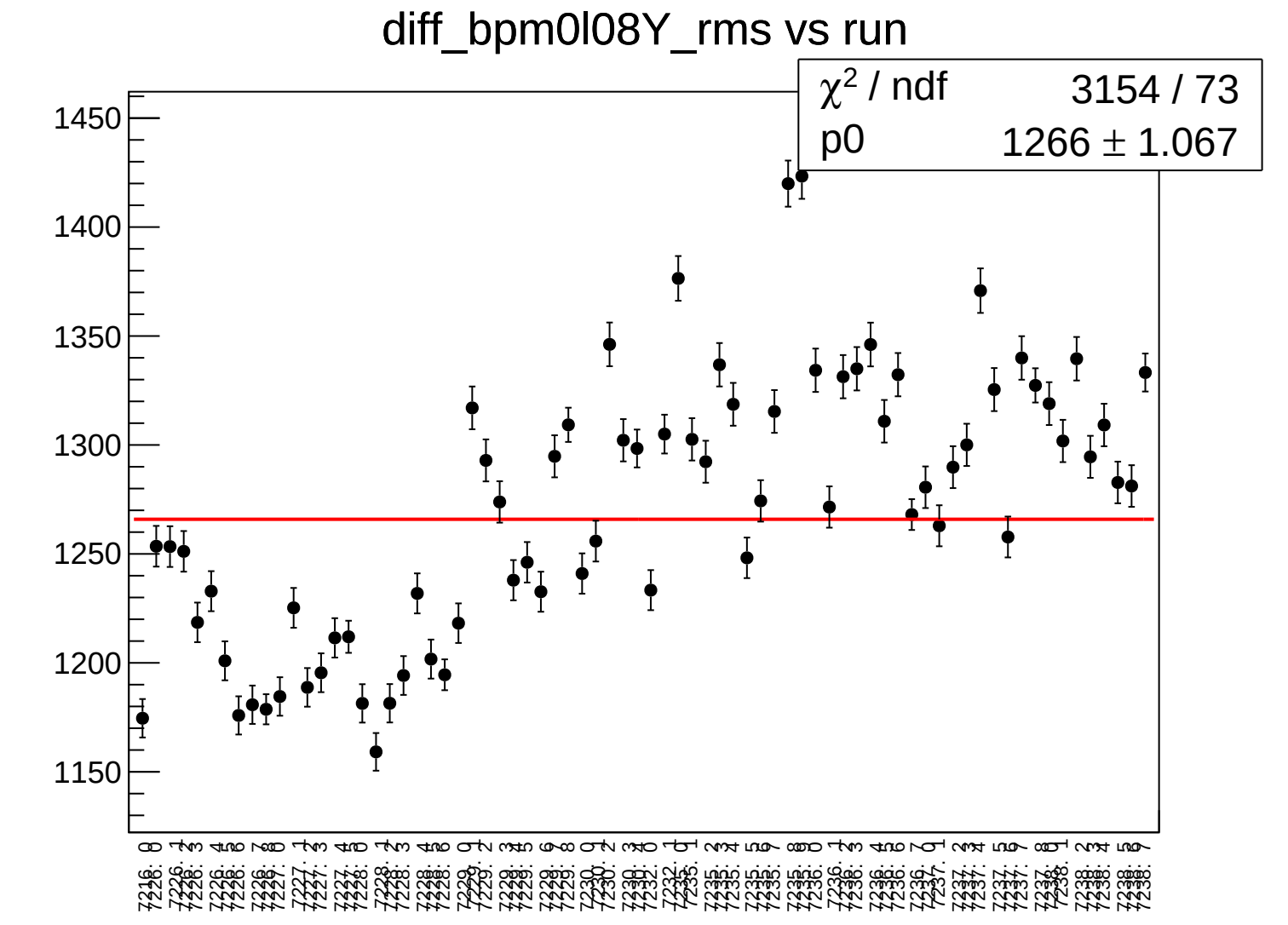

diff_bpm0l08X_mean vs run
χ² / ndf 80.69 / 73
p0 24.72 ± 11.26
pull
Entries 74
Mean 169.6
Std Dev 128.7

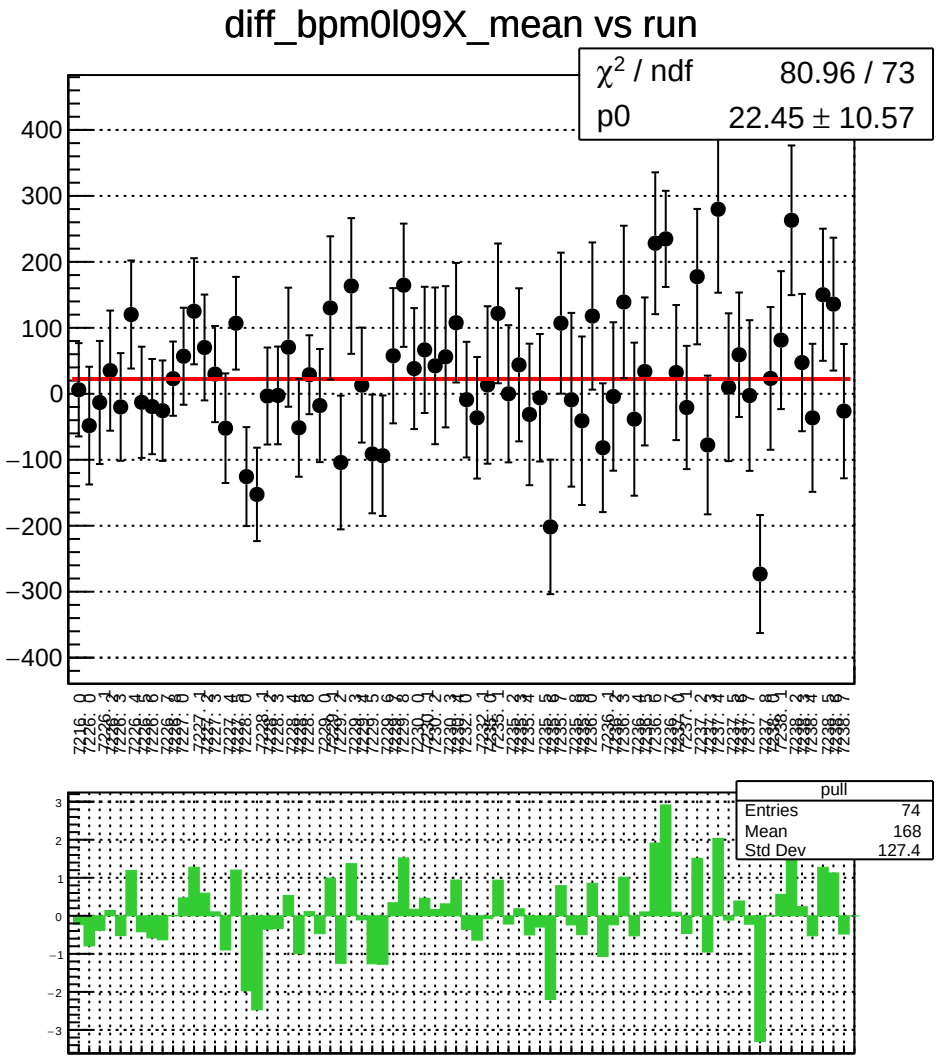

pull1D
Entries 74
Mean 0.0274
Std Dev 1.044

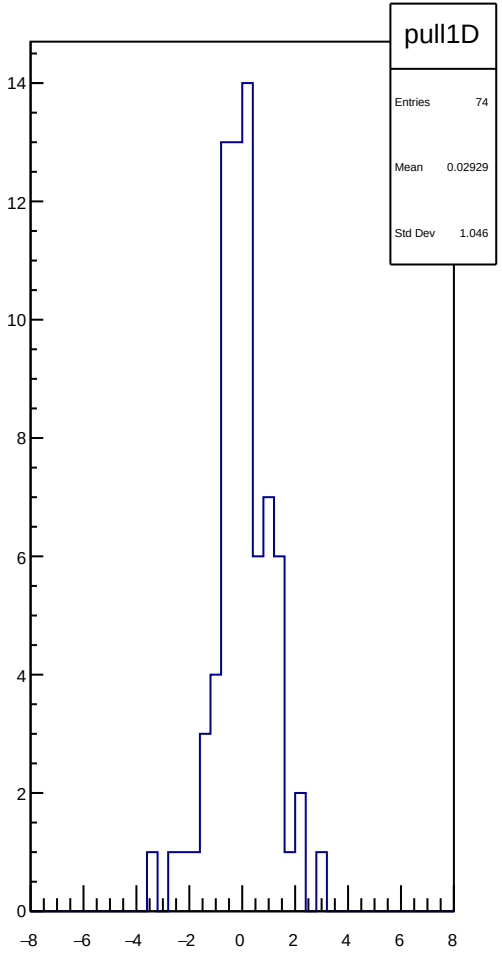

diff_bpm0l08X_rms vs run
χ² / ndf 4.045e+04 / 73
p0 9320 ± 7.961
14000
13000
12000
11000
10000
9000
8000
7000

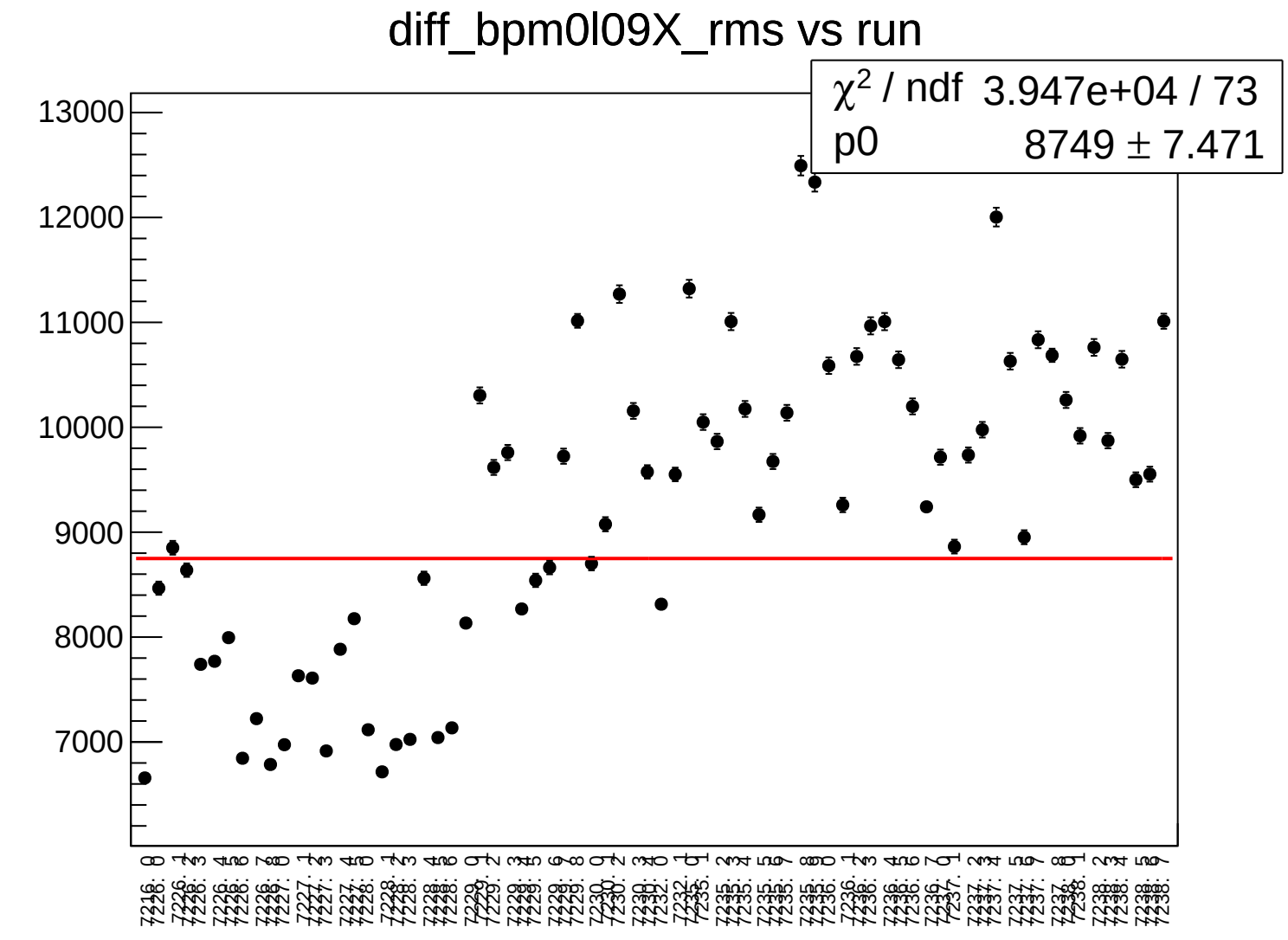

diff_bpm0l08Y_mean vs run
χ² / ndf 93.92 / 73
p0 −4.065 ± 1.509
pull
Entries 74
Mean −1.568
Std Dev 63.3

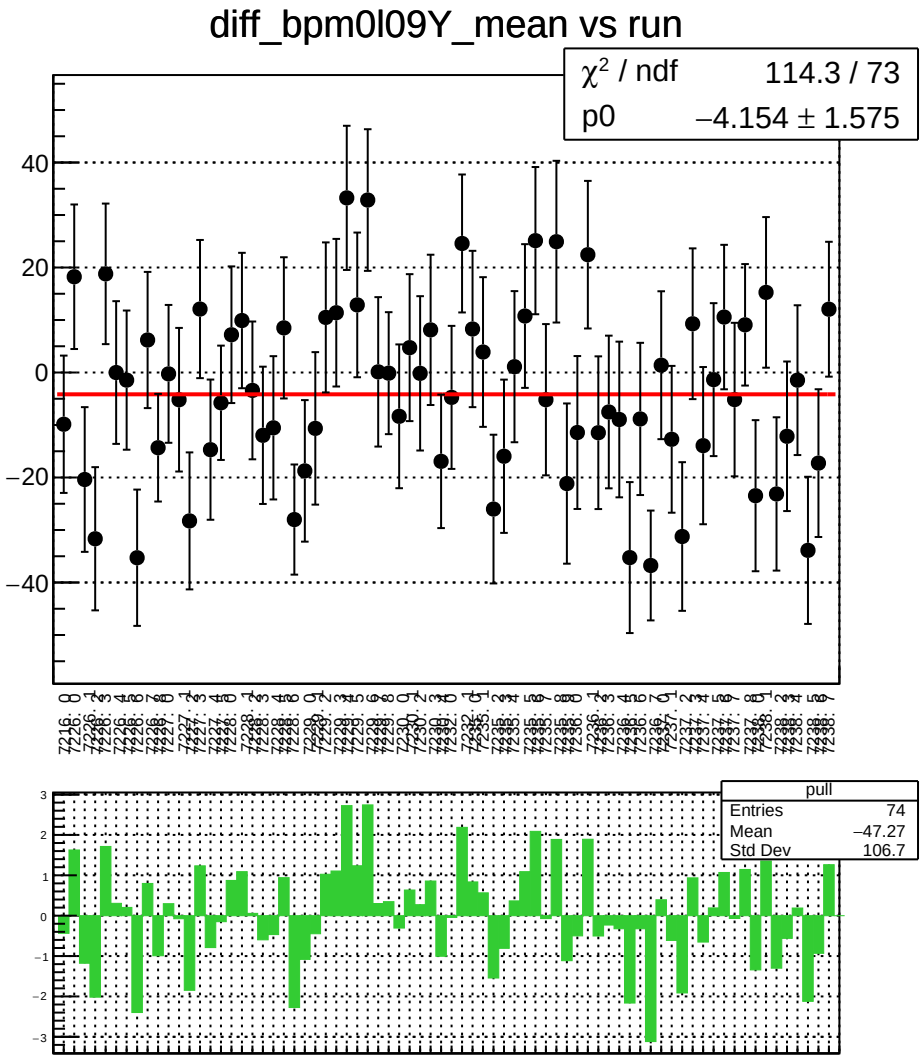

pull1D
Entries 74
Mean 0.02222
Std Dev 1.126

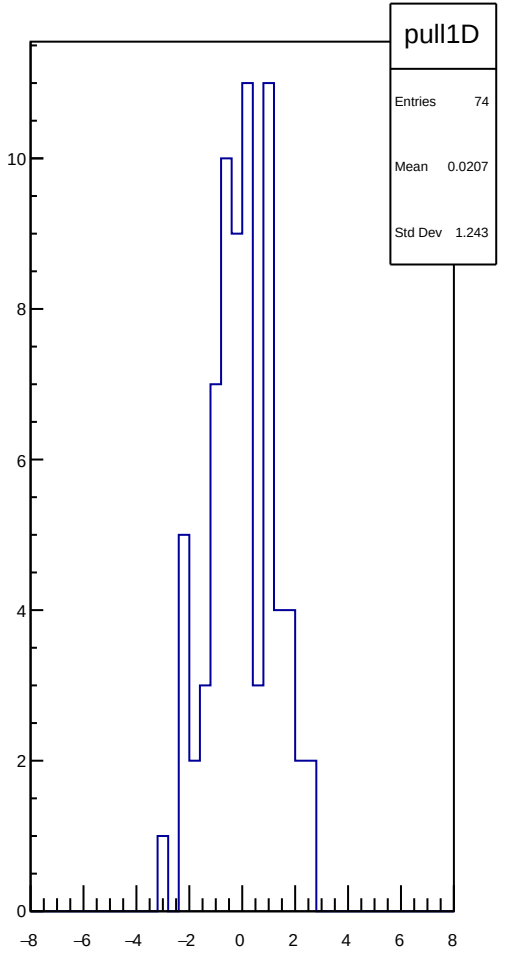

diff_bpm0l08Y_rms vs run
χ² / ndf 3154 / 73
p0 1266 ± 1.067
1450
1400
1350
1300
1250
1200
1150

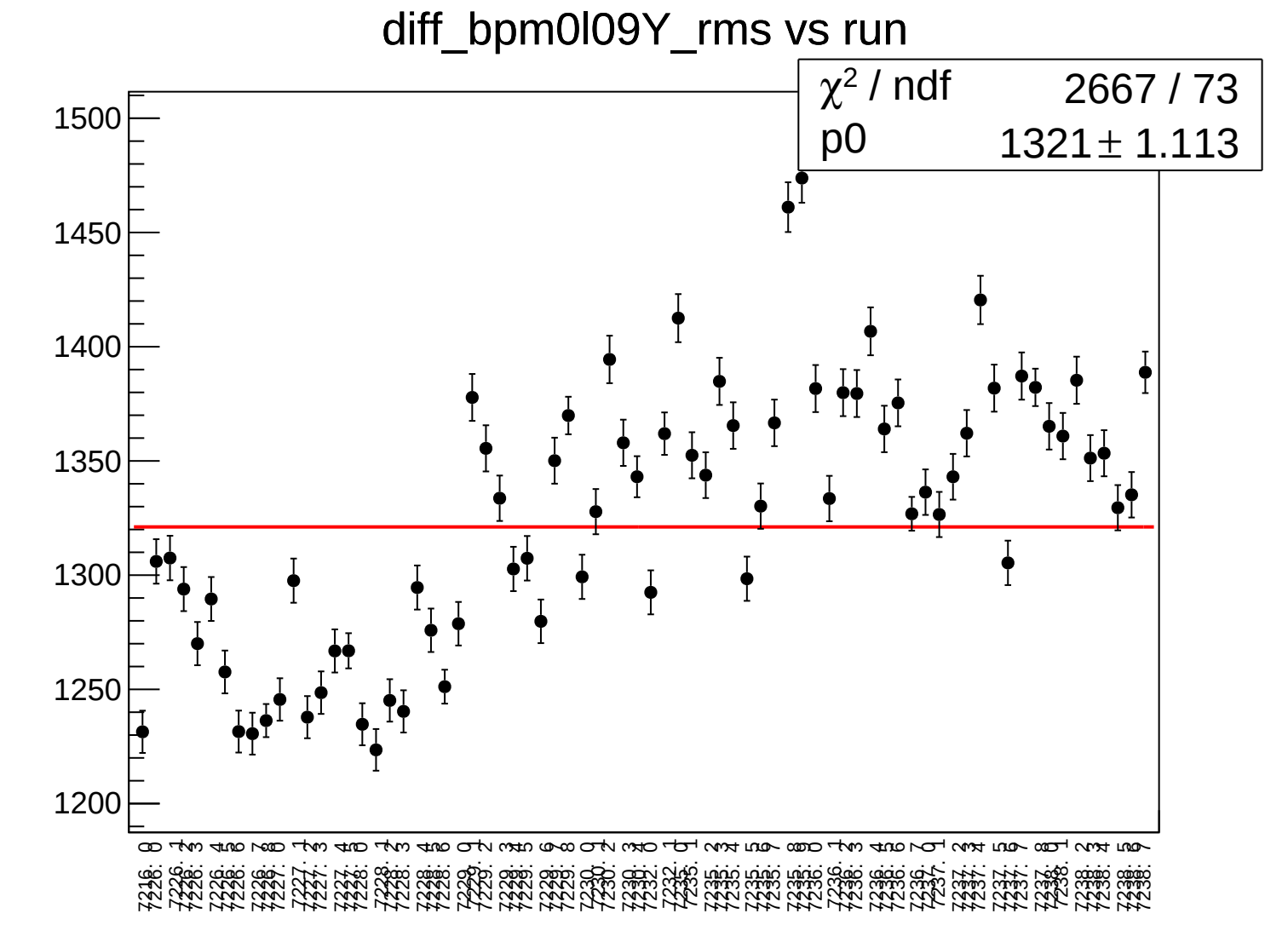

diff_bpm0l09X_mean vs run
χ² / ndf 80.96 / 73
p0 22.45 ± 10.57
pull
Entries 74
Mean 168
Std Dev 127.4

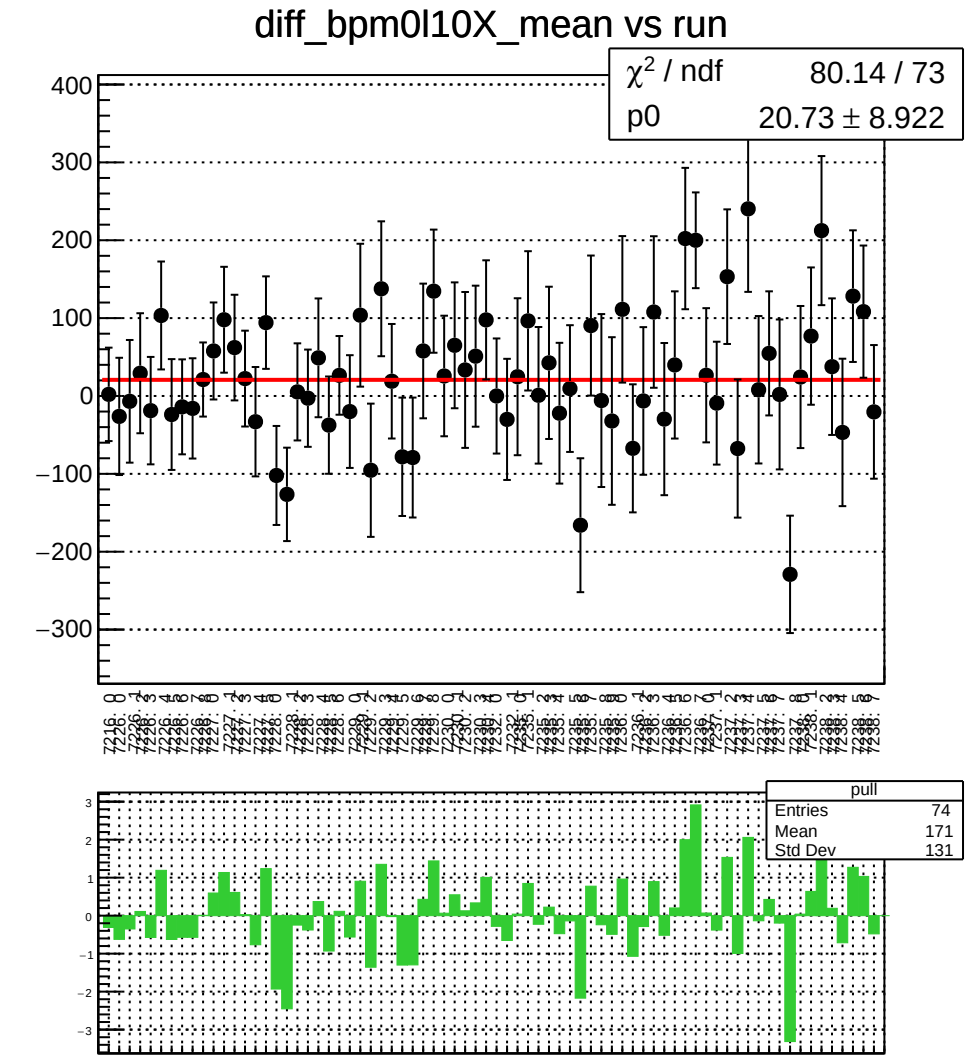

pull1D
Entries 74
Mean 0.02929
Std Dev 1.046

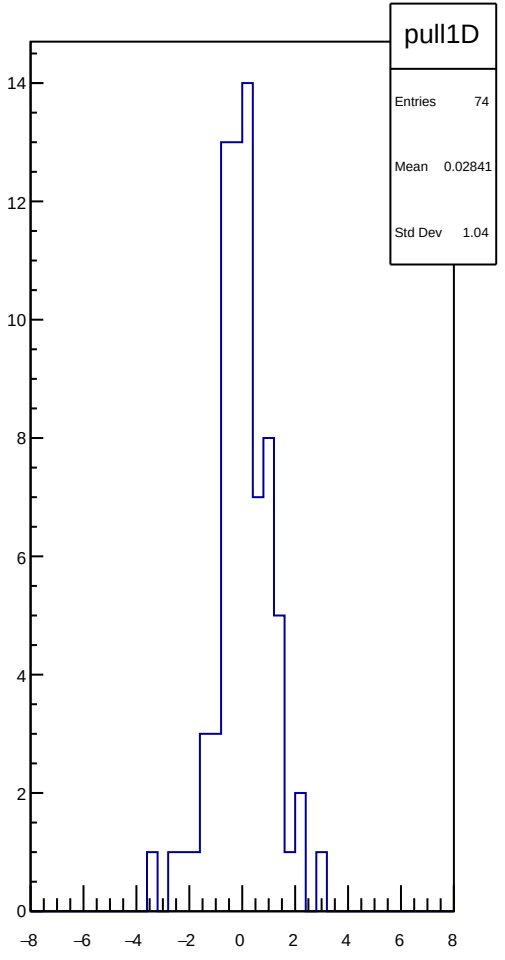

diff_bpm0l09X_rms vs run
χ² / ndf 3.947e+04 / 73
p0 8749 ± 7.471
13000
12000
11000
10000
9000
8000
7000

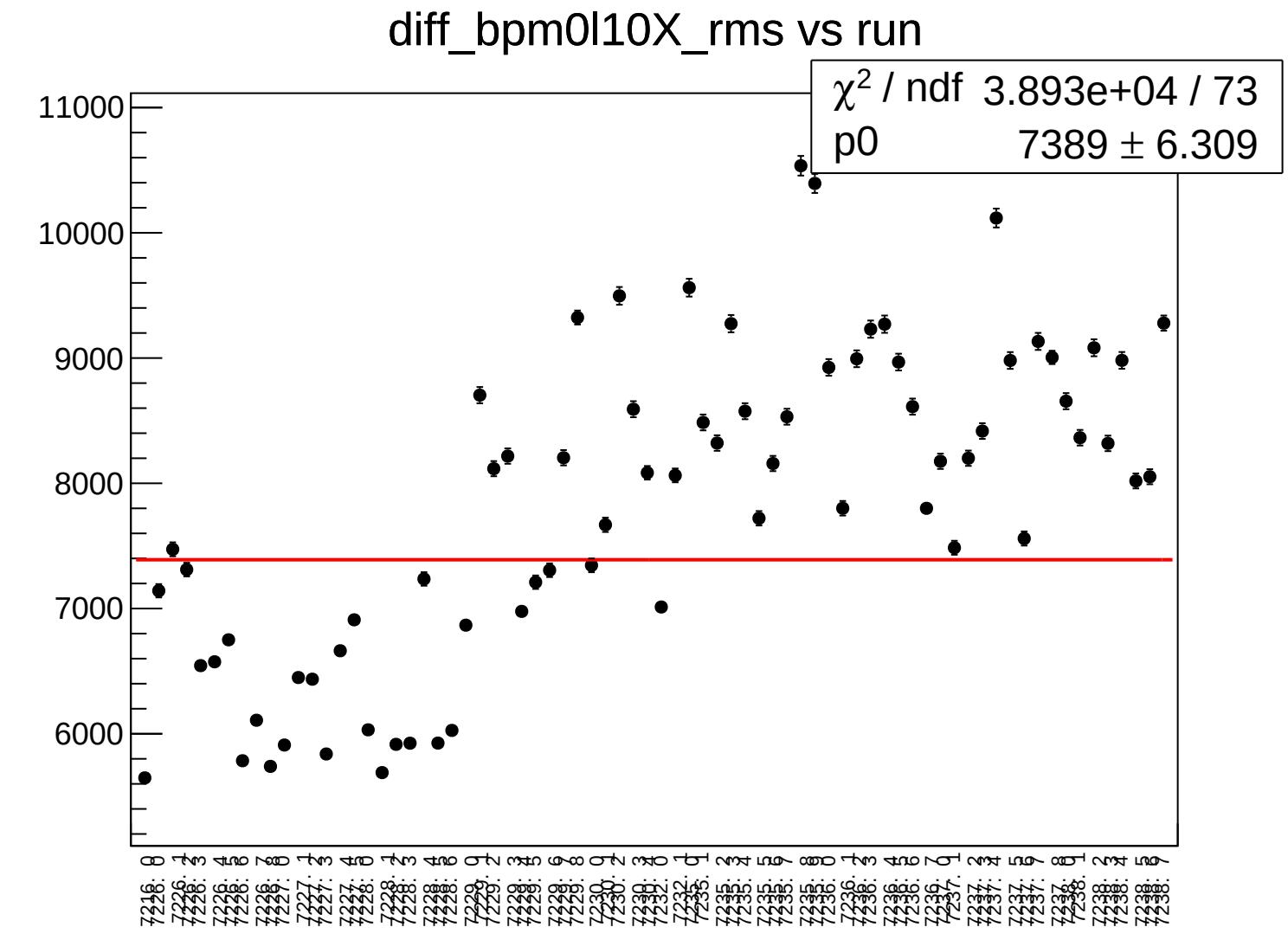

diff_bpm0l09Y_mean vs run
χ² / ndf 114.3 / 73
p0 −4.154 ± 1.575
40
20
0
−20
−40
pull
Entries 74
Mean −47.27
Std Dev 106.7
3
2
1
0
−1
−2
−3

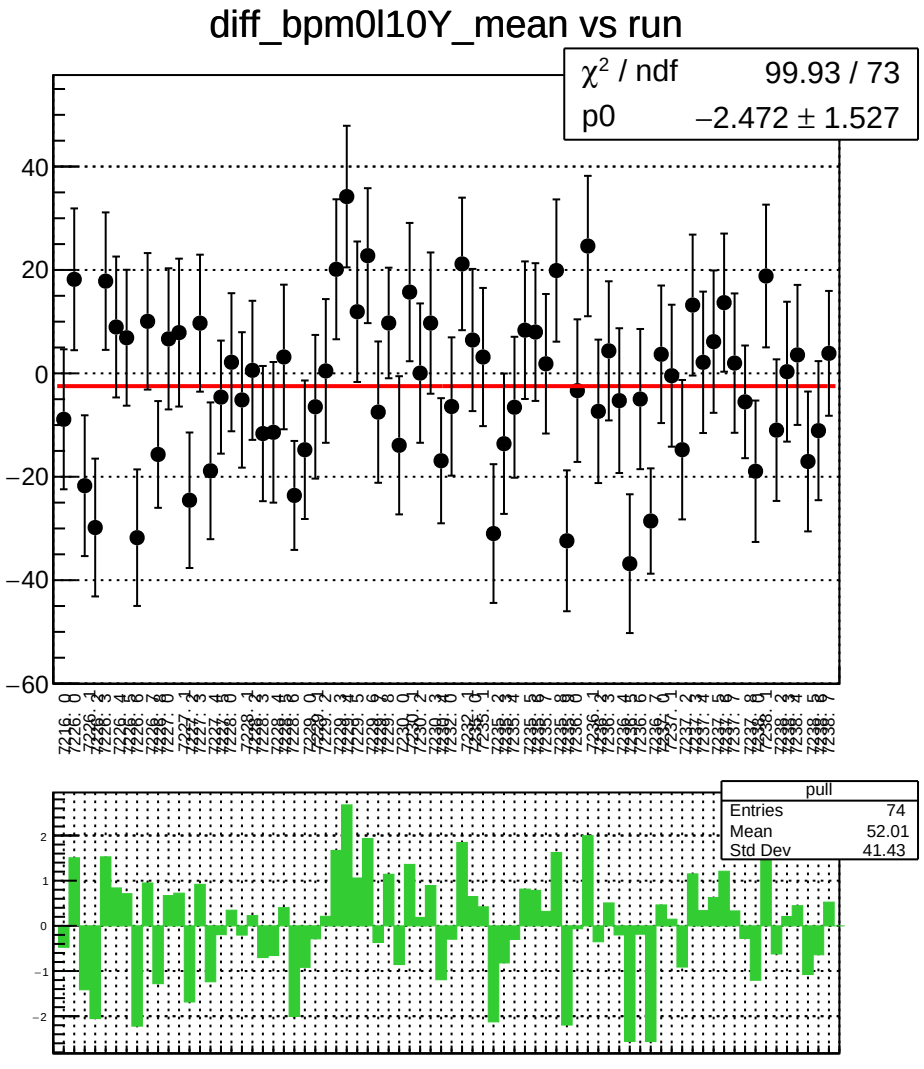

pull1D
Entries 74
Mean 0.0207
Std Dev 1.243
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

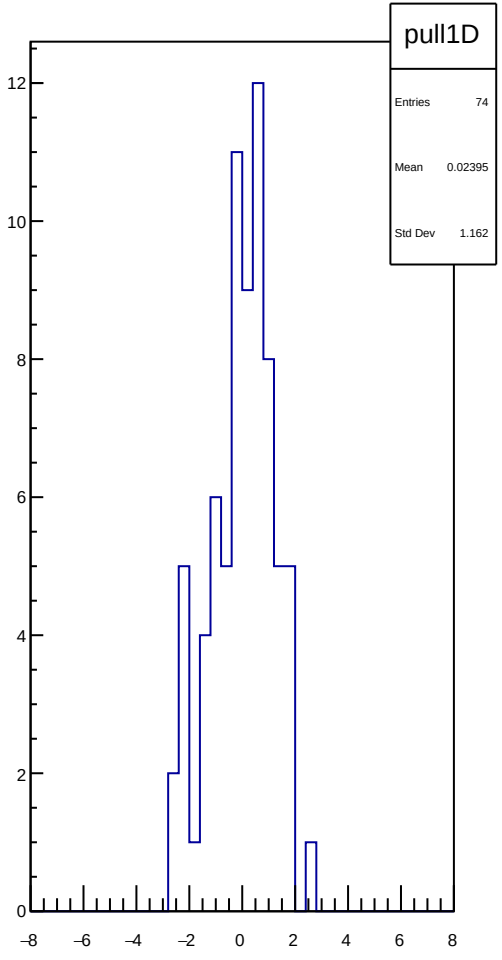

diff_bpm0l09Y_rms vs run
χ² / ndf 2667 / 73
p0 1321 ± 1.113
1500
1450
1400
1350
1300
1250
1200

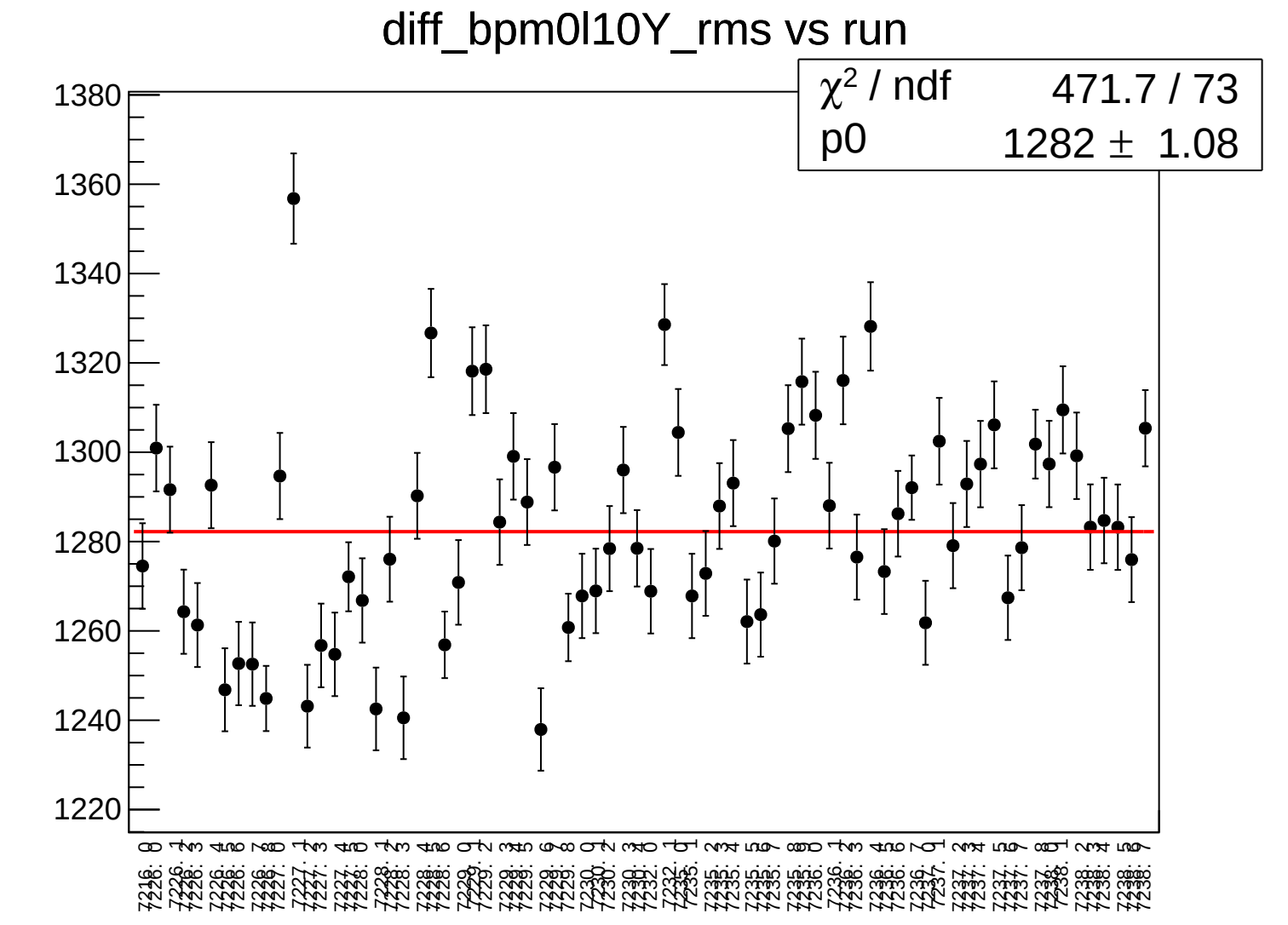

diff_bpm0l10X_mean vs run
χ² / ndf 80.14 / 73
p0 20.73 ± 8.922
pull
Entries 74
Mean 171
Std Dev 131

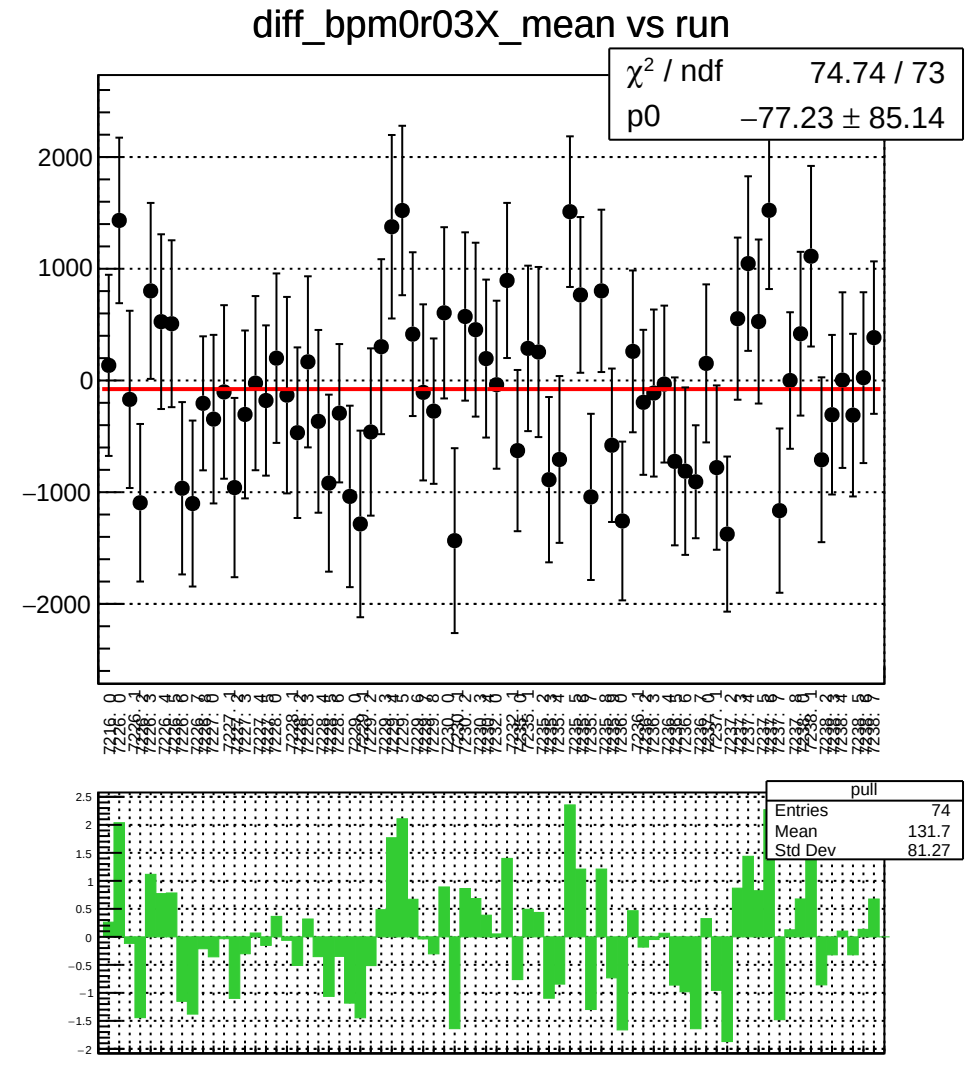

pull1D
Entries 74
Mean 0.02841
Std Dev 1.04

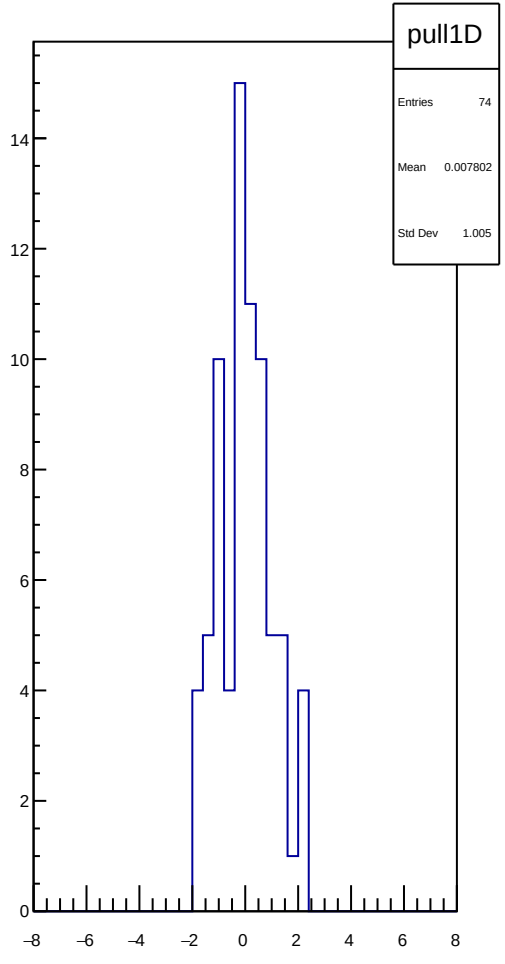

diff_bpm0l10X_rms vs run
χ² / ndf 3.893e+04 / 73
p0 7389 ± 6.309
11000
10000
9000
8000
7000
6000

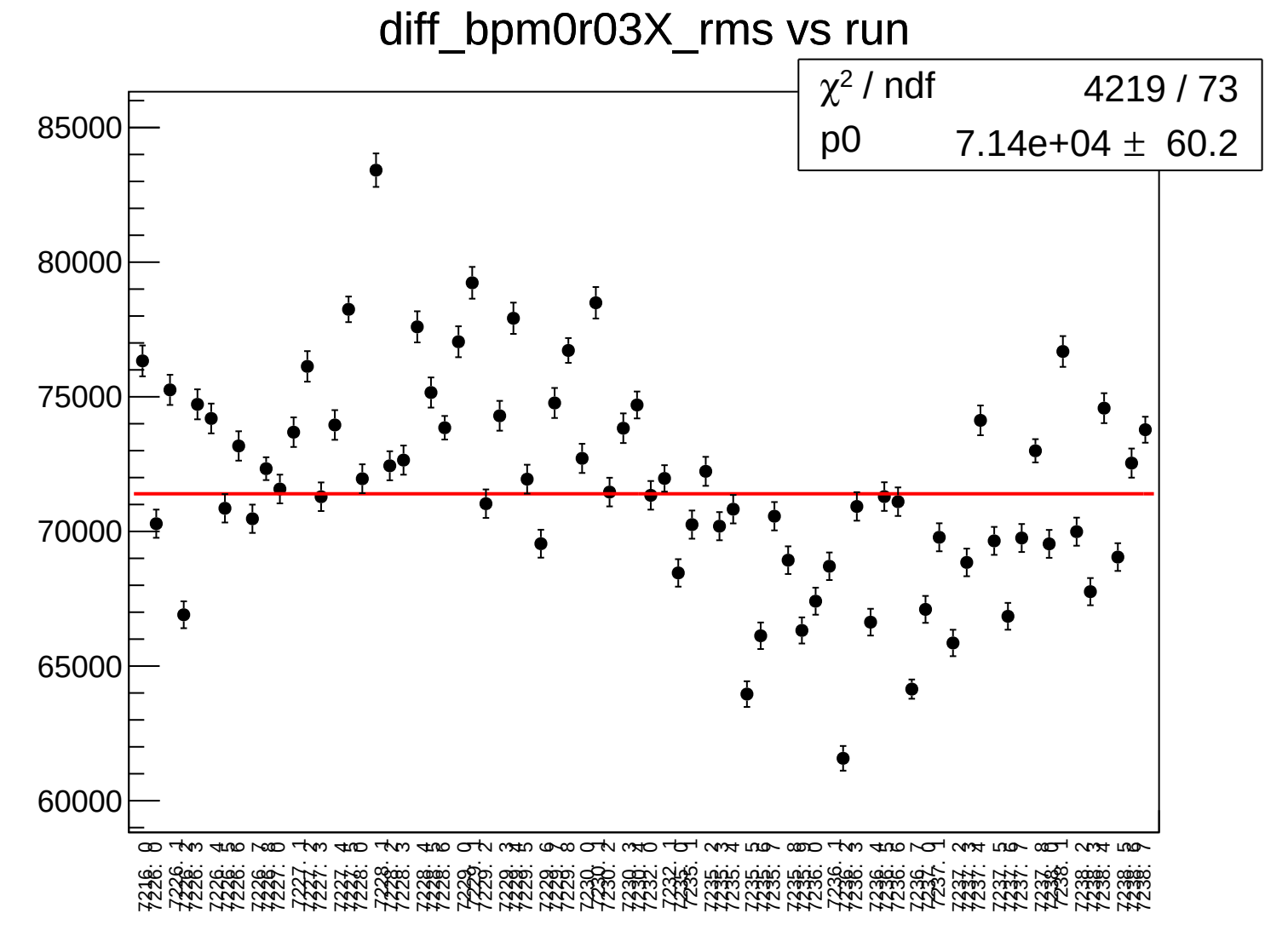

diff_bpm0l10Y_mean vs run
χ² / ndf 99.93 / 73
p0 −2.472 ± 1.527
pull
Entries 74
Mean 52.01
Std Dev 41.43

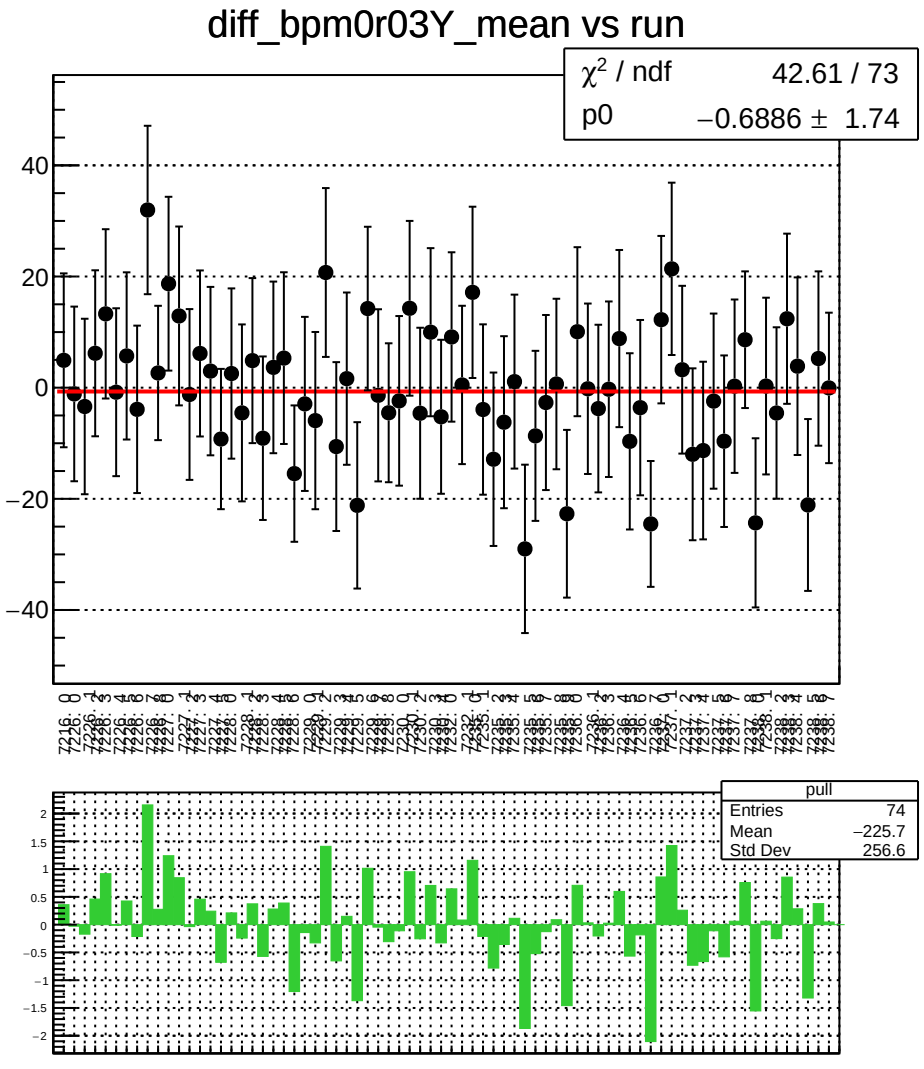

pull1D
Entries 74
Mean 0.02395
Std Dev 1.162

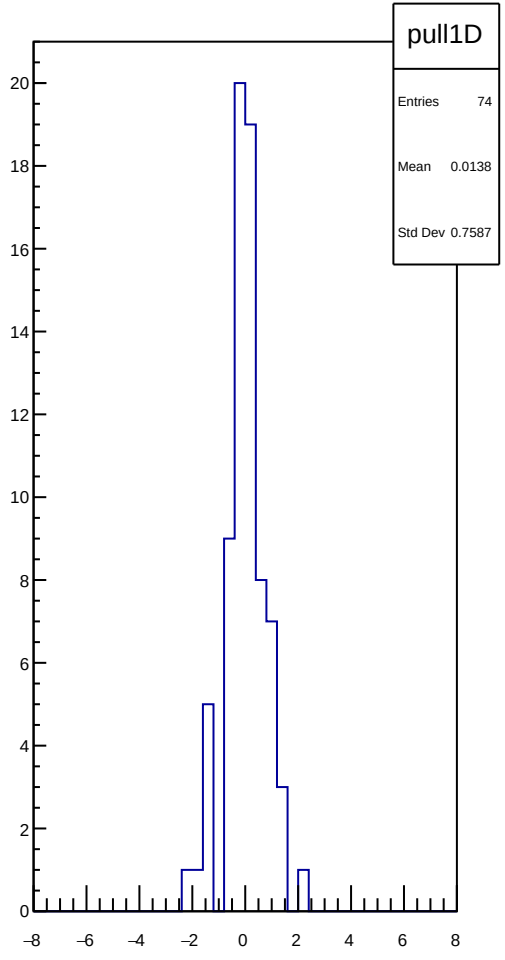

diff_bpm0l10Y_rms vs run
χ² / ndf 471.7 / 73
p0 1282 ± 1.08
1380
1360
1340
1320
1300
1280
1260
1240
1220

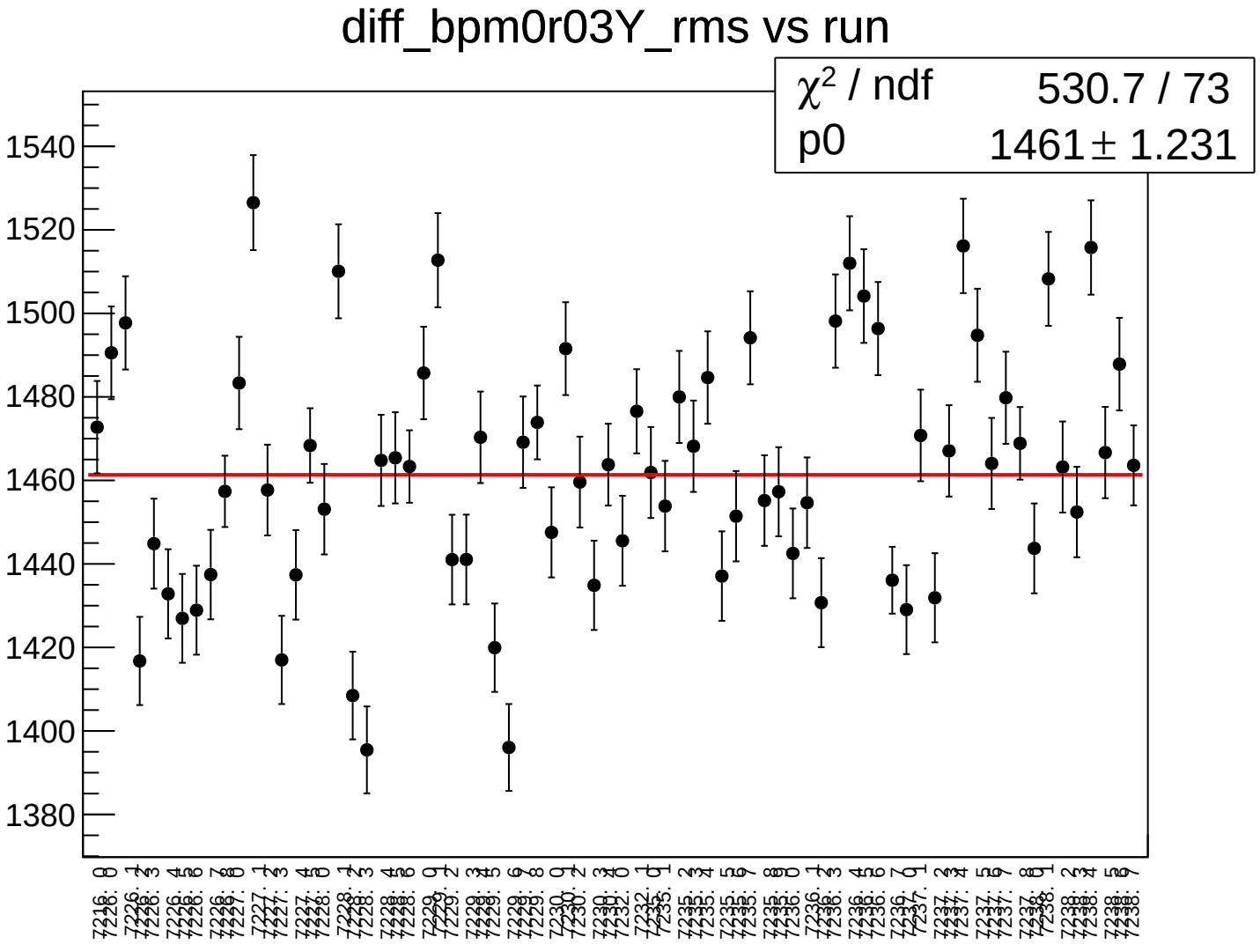

diff_bpm0r03X_mean vs run
χ² / ndf 74.74 / 73
p0 −77.23 ± 85.14
2000
1000
0
−1000
−2000
pull
Entries 74
Mean 131.7
Std Dev 81.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

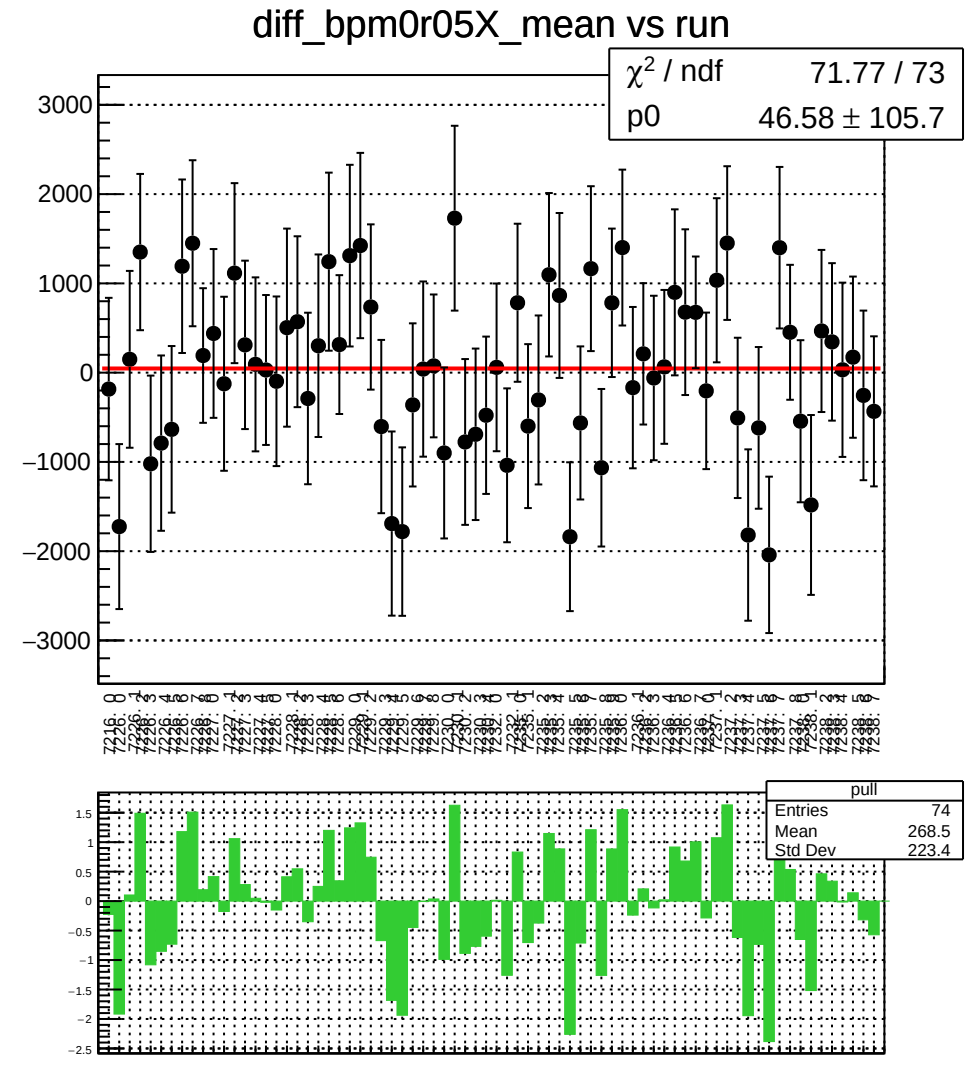

pull1D
Entries 74
Mean 0.007802
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

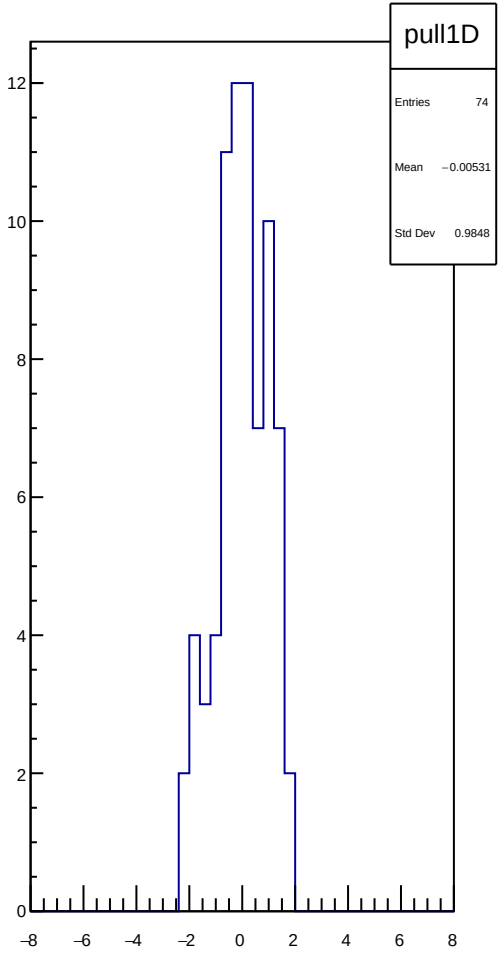

diff_bpm0r03X_rms vs run
χ² / ndf 4219 / 73
p0 7.14e+04 ± 60.2
85000
80000
75000
70000
65000
60000

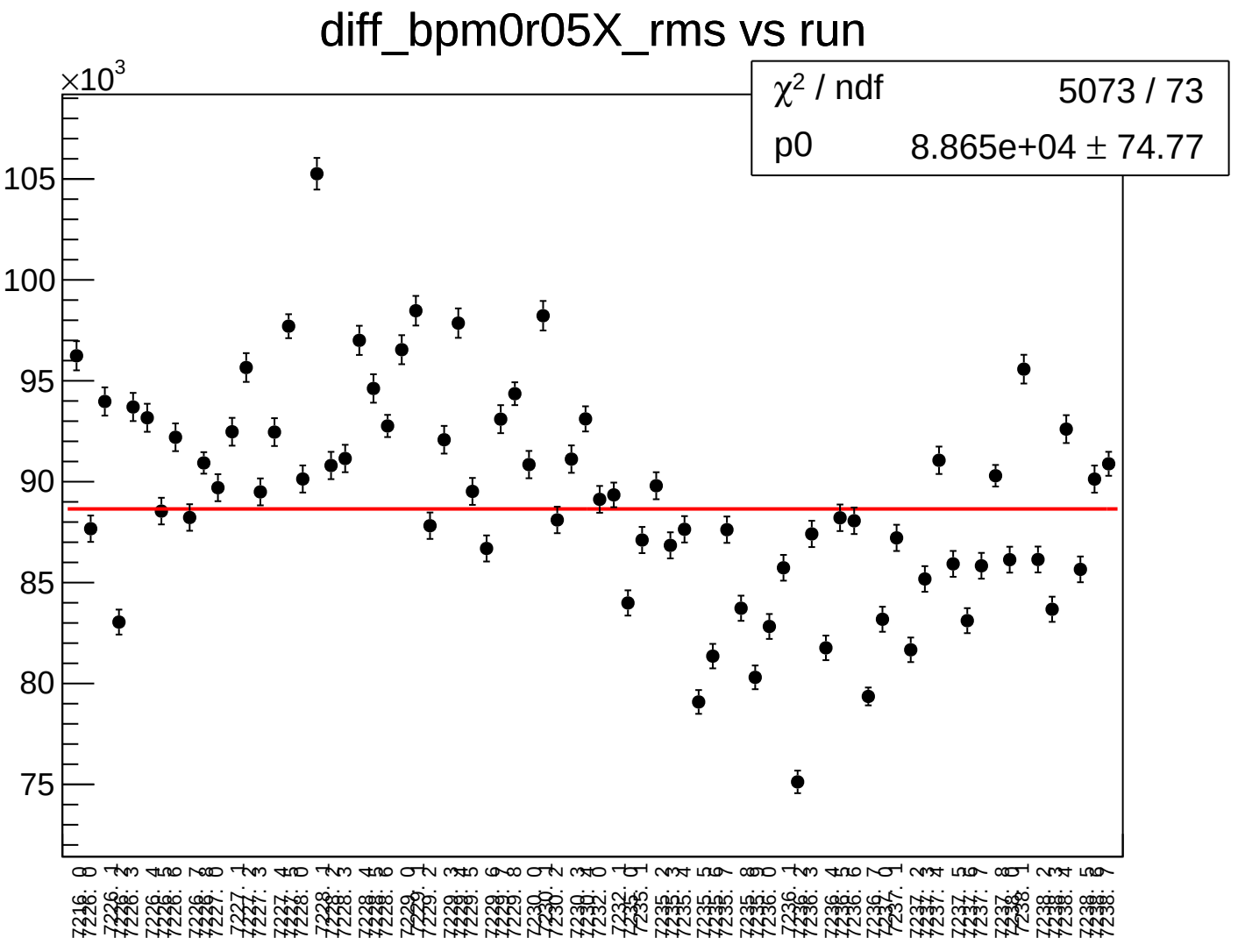

diff_bpm0r03Y_mean vs run
χ² / ndf 42.61 / 73
p0 −0.6886 ± 1.74
pull
Entries 74
Mean −225.7
Std Dev 256.6

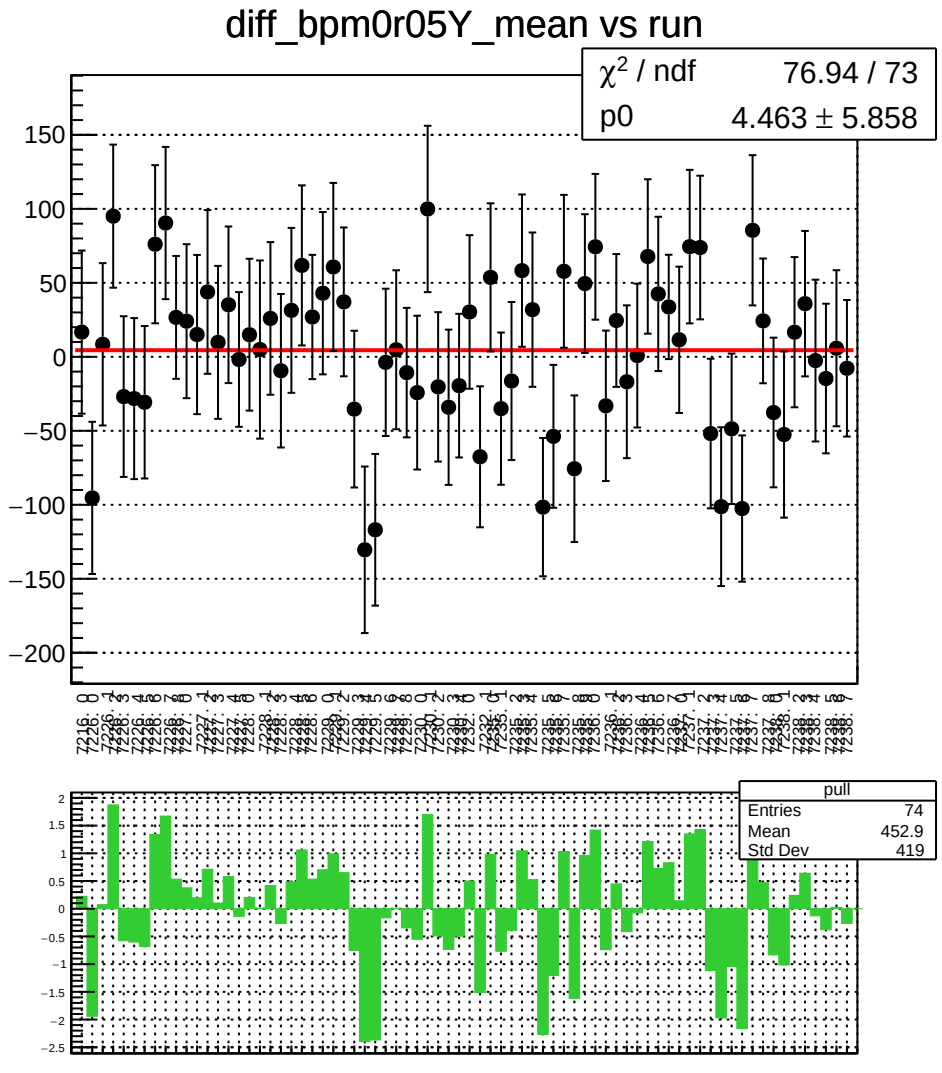

pull1D
Entries 74
Mean 0.0138
Std Dev 0.7587

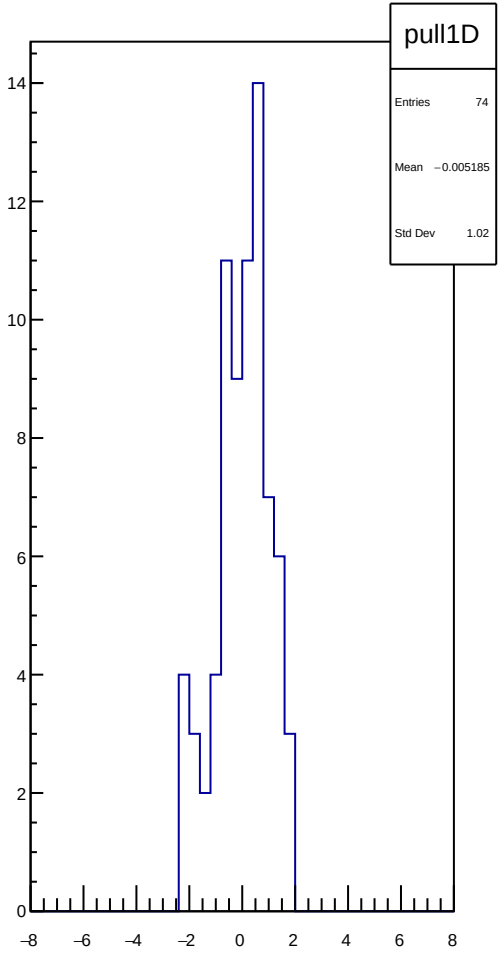

diff_bpm0r03Y_rms vs run
χ² / ndf 530.7 / 73
p0 1461 ± 1.231
1540
1520
1500
1480
1460
1440
1420
1400
1380

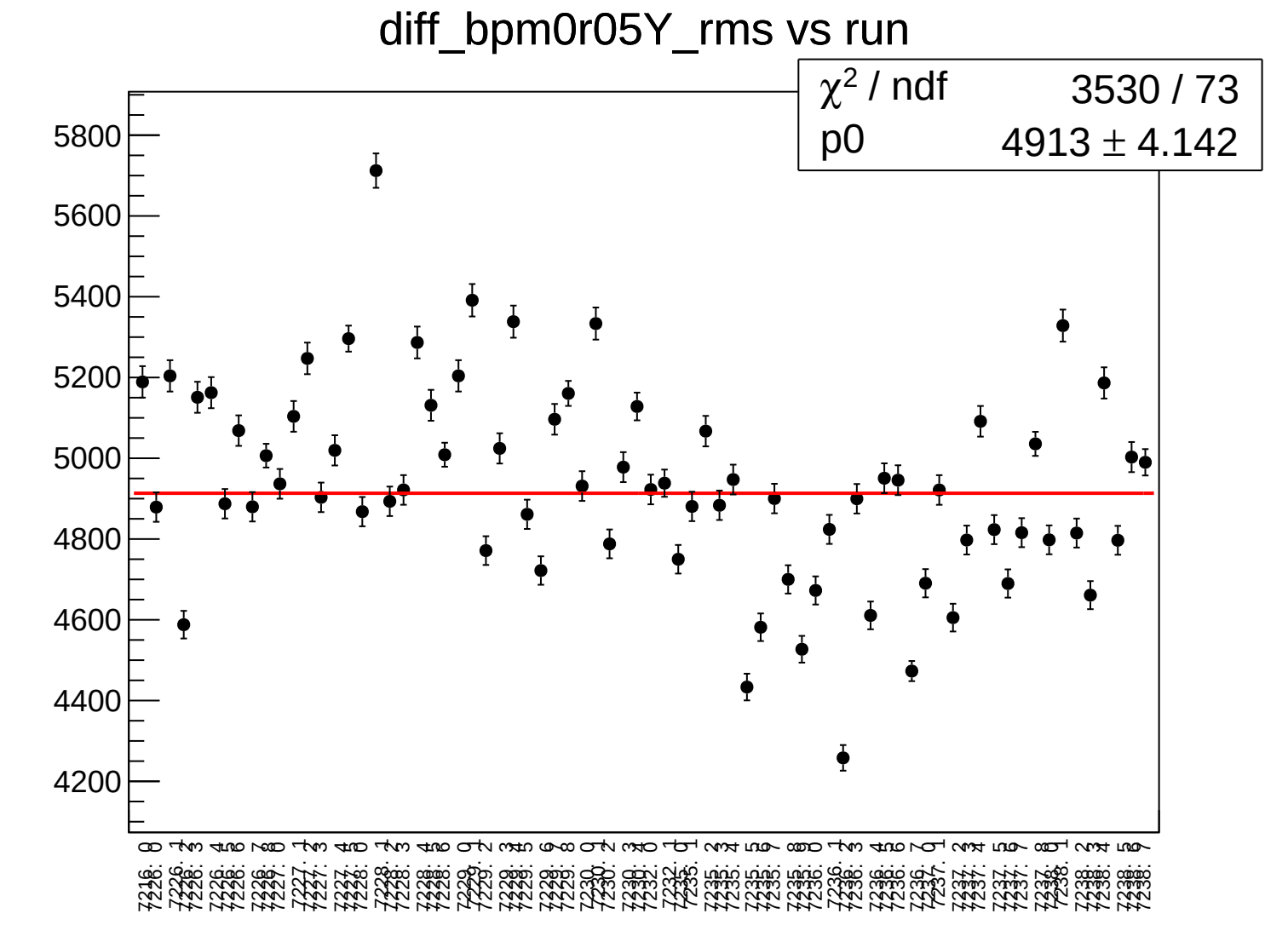

diff_bpm0r05X_mean vs run
χ² / ndf 71.77 / 73
p0 46.58 ± 105.7
pull
Entries 74
Mean 268.5
Std Dev 223.4

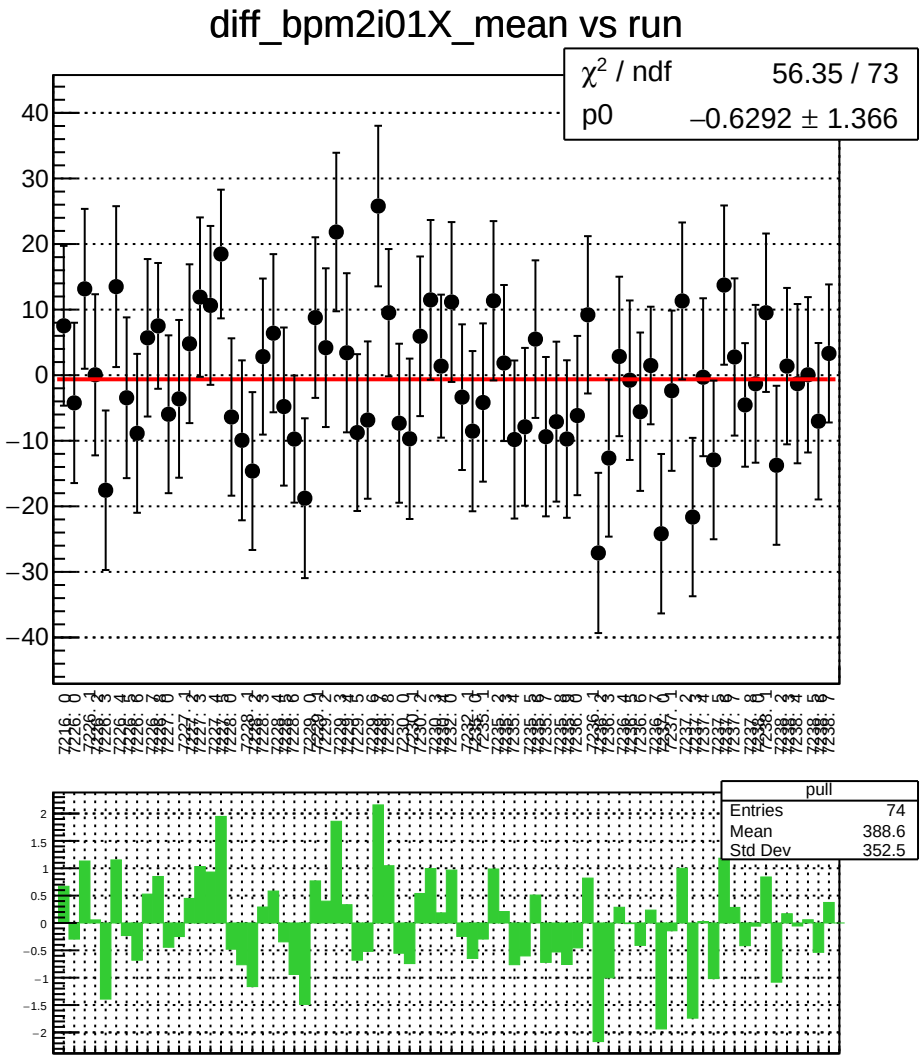

pull1D
Entries 74
Mean −0.00531
Std Dev 0.9848

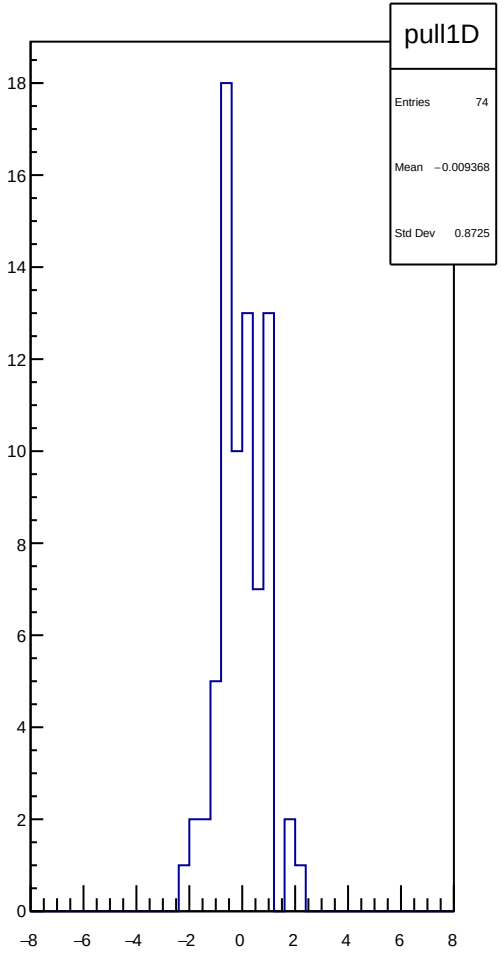

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 5073 / 73
p0 8.865e+04 ± 74.77
105
100
95
90
85
80
75

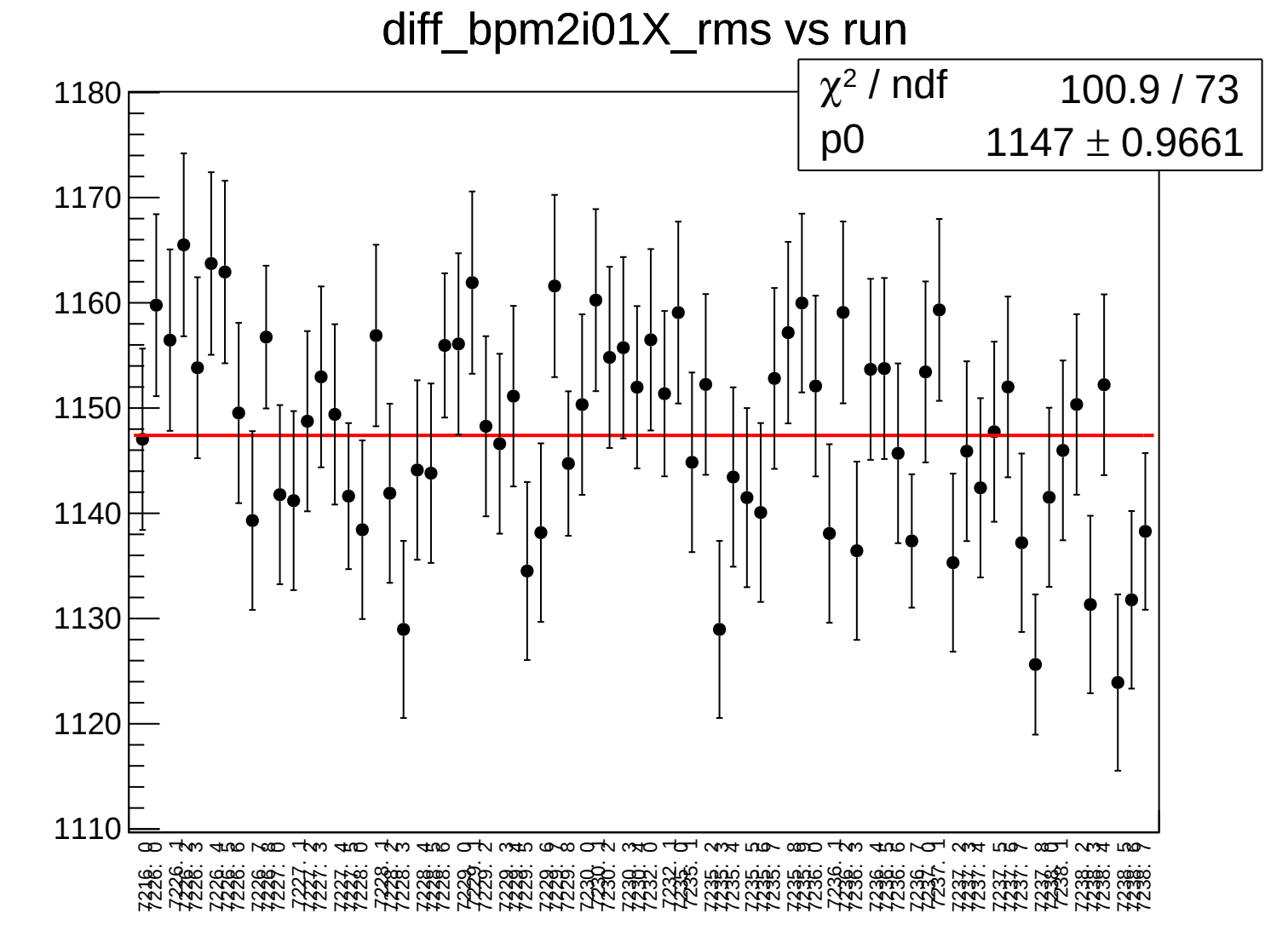

diff_bpm0r05Y_mean vs run
χ² / ndf 76.94 / 73
p0 4.463 ± 5.858
pull
Entries 74
Mean 452.9
Std Dev 419

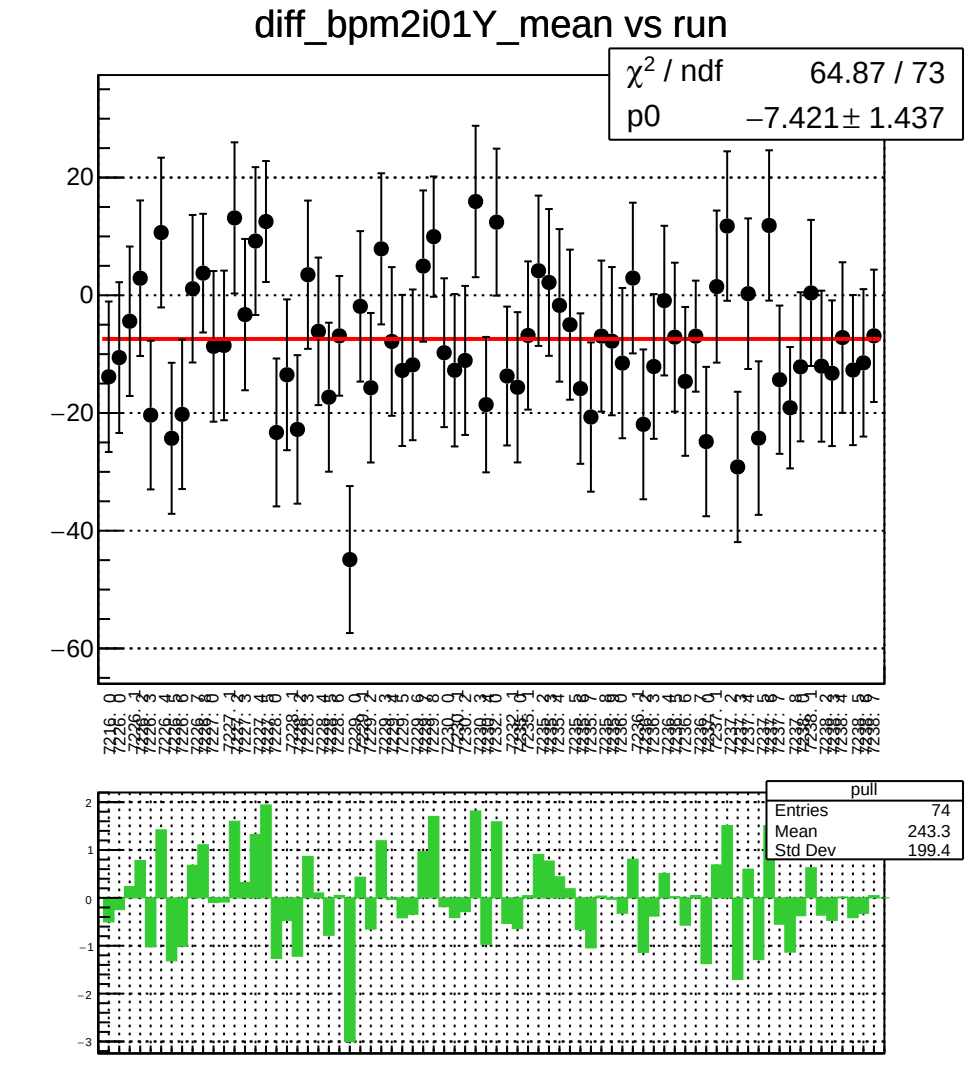

pull1D
Entries 74
Mean −0.005185
Std Dev 1.02

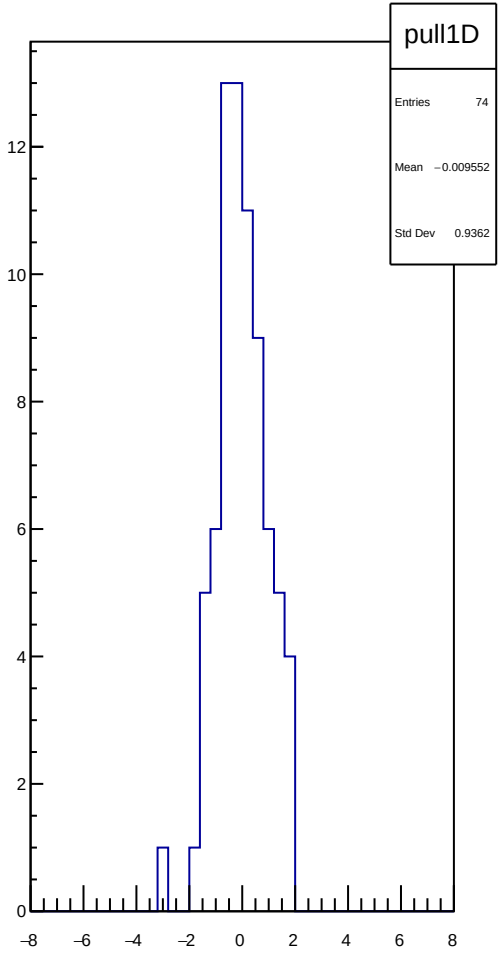

diff_bpm0r05Y_rms vs run
χ² / ndf 3530 / 73
p0 4913 ± 4.142
5800
5600
5400
5200
5000
4800
4600
4400
4200

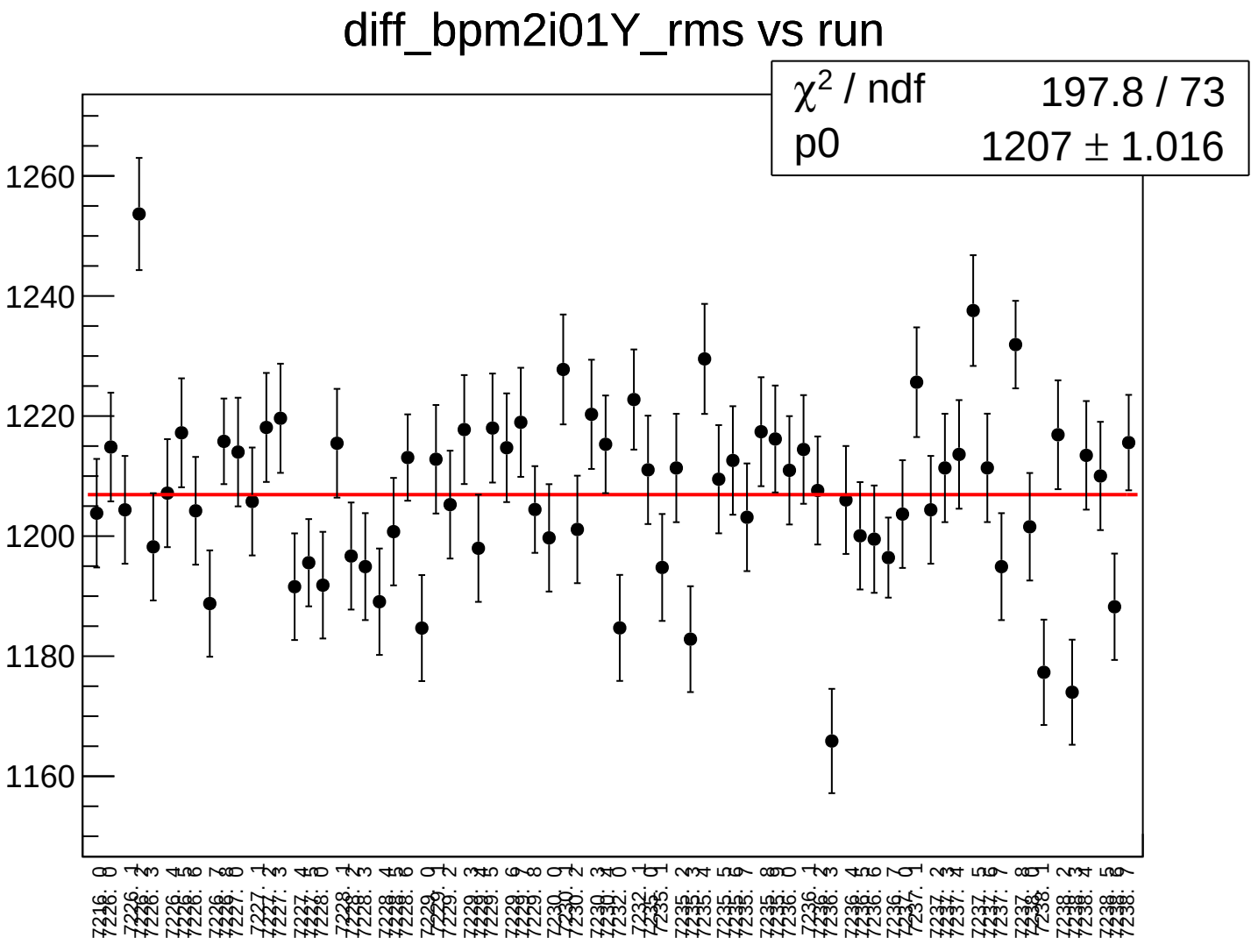

diff_bpm2i01X_mean vs run
χ² / ndf 56.35 / 73
p0 −0.6292 ± 1.366
pull
Entries 74
Mean 388.6
Std Dev 352.5

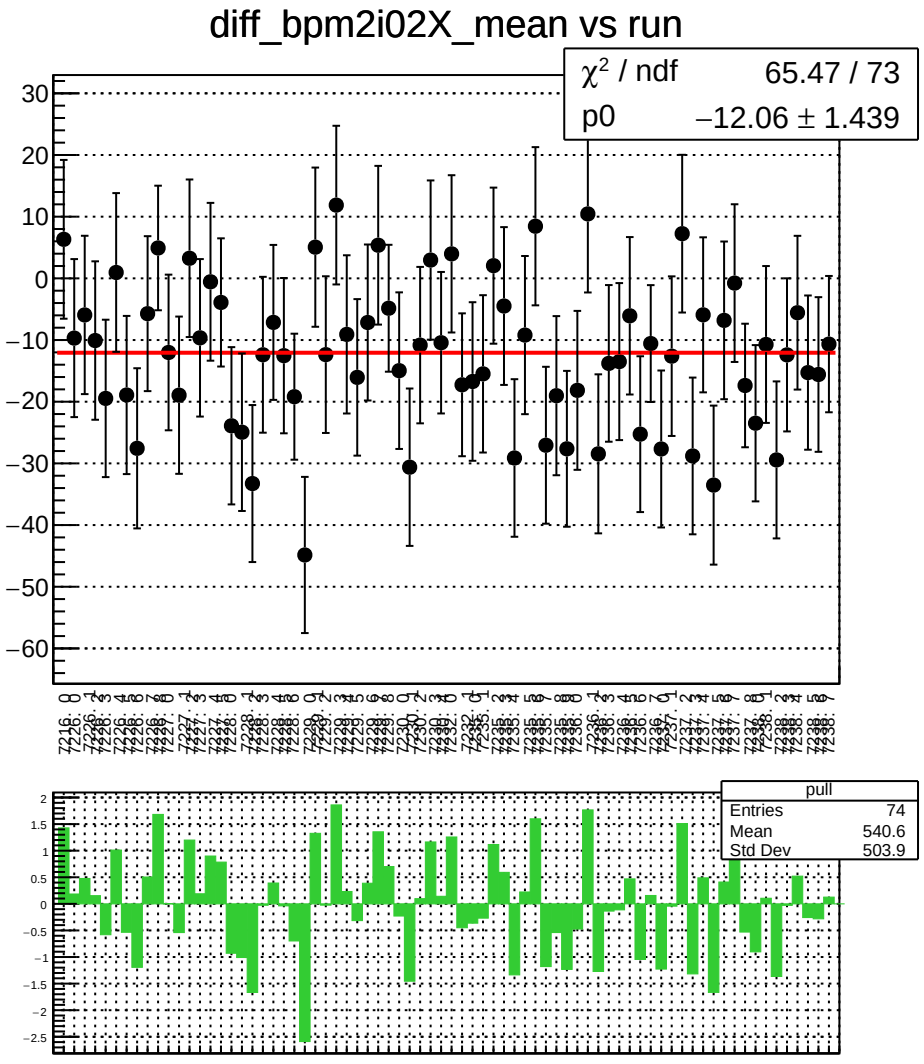

pull1D
Entries 74
Mean −0.009368
Std Dev 0.8725

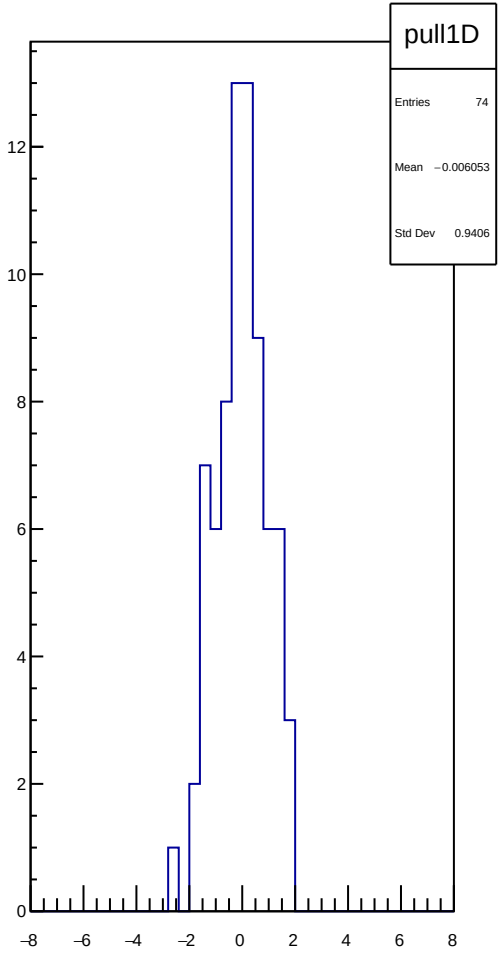

diff_bpm2i01X_rms vs run
χ² / ndf 100.9 / 73
p0 1147 ± 0.9661
1180
1170
1160
1150
1140
1130
1120
1110

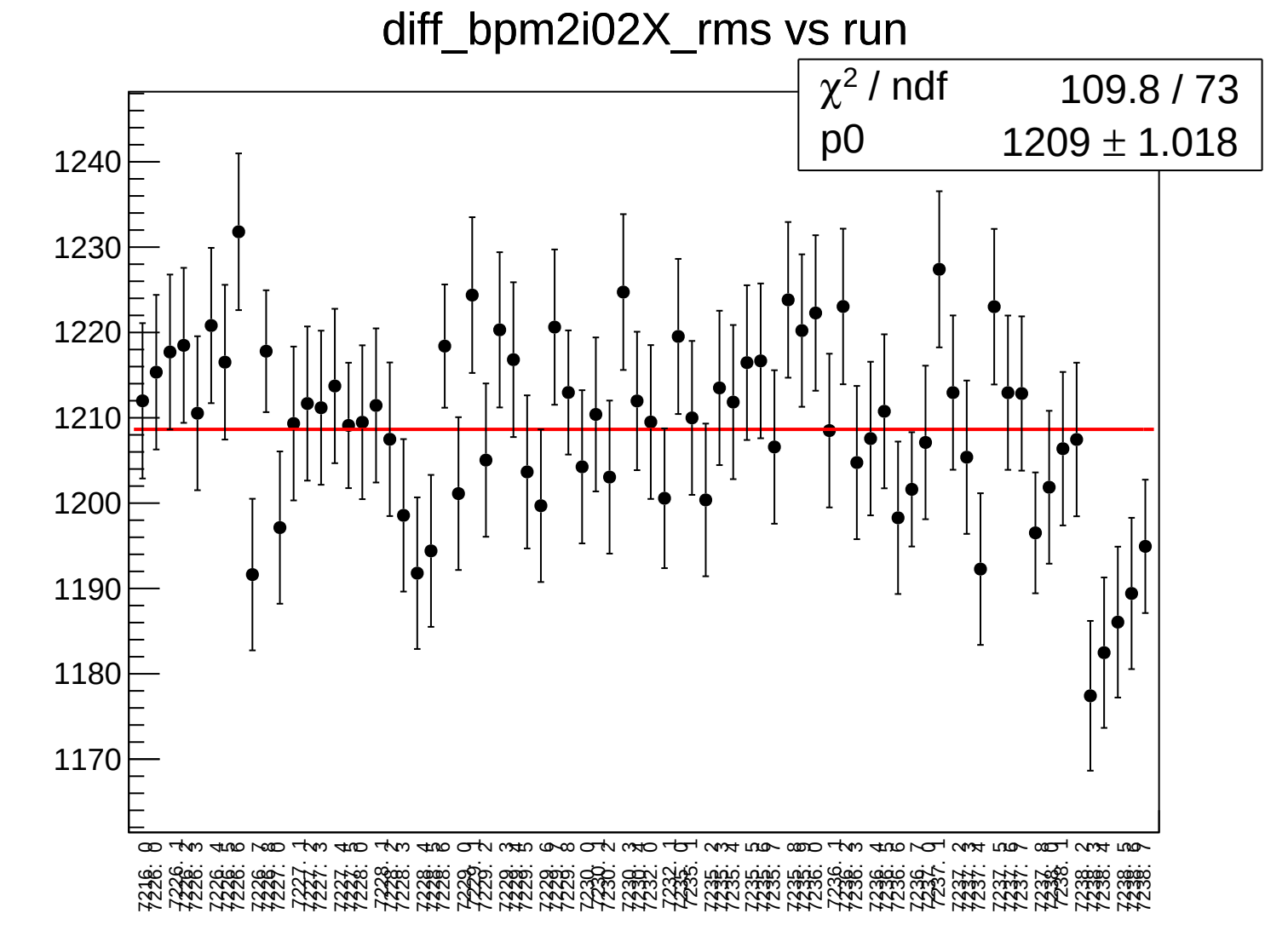

diff_bpm2i01Y_mean vs run
χ² / ndf 64.87 / 73
p0 −7.421± 1.437
pull
Entries 74
Mean 243.3
Std Dev 199.4

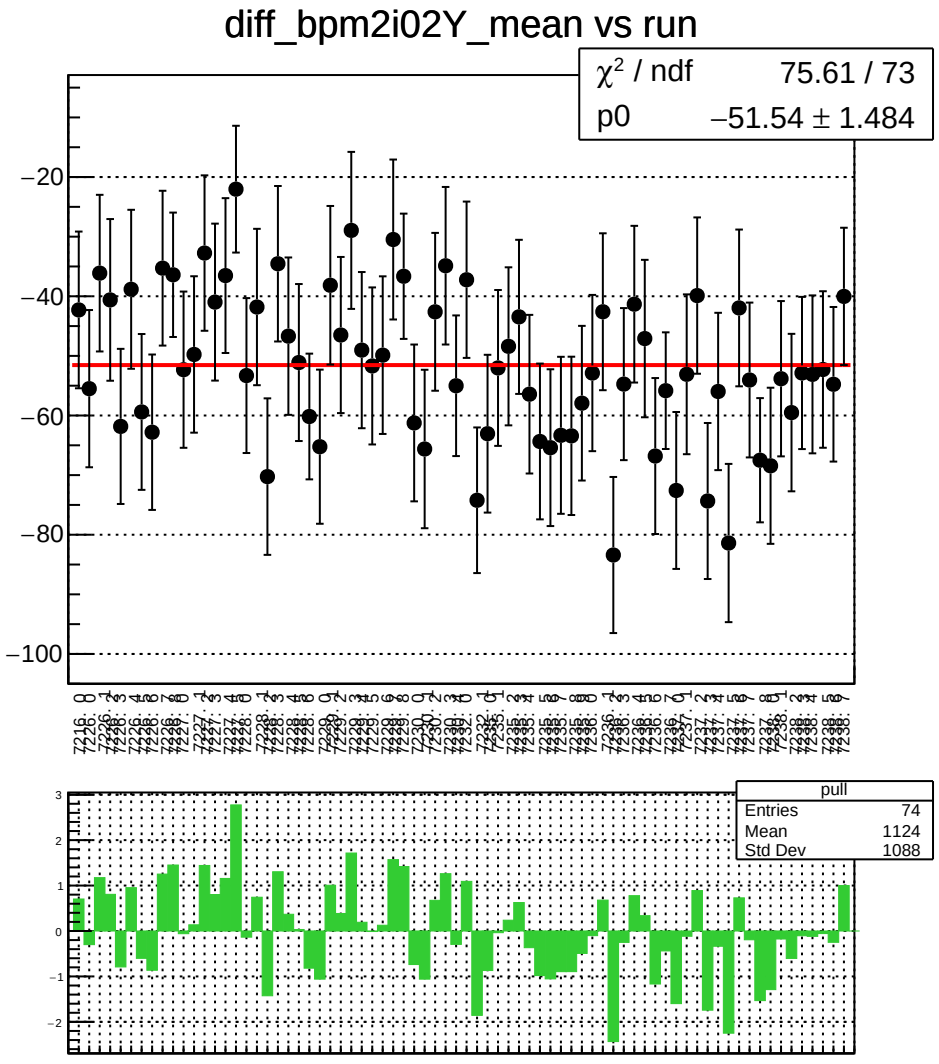

pull1D
Entries 74
Mean −0.009552
Std Dev 0.9362

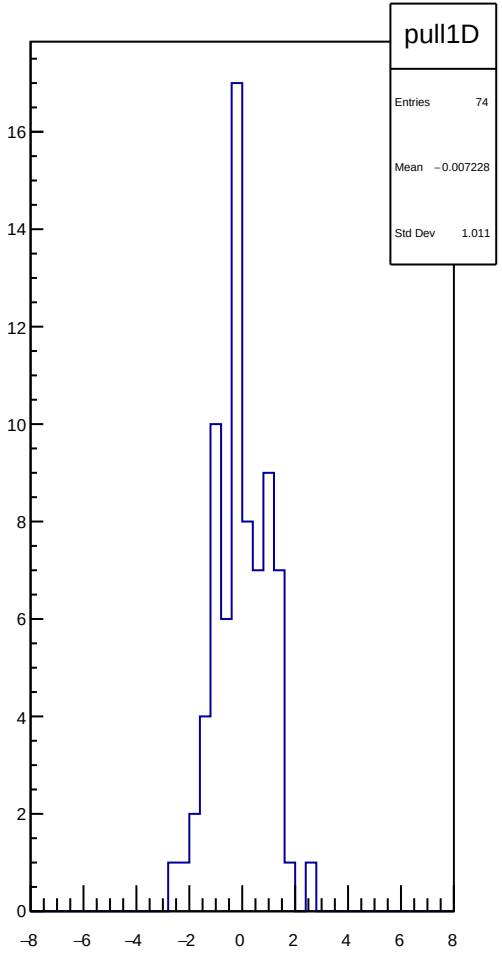

diff_bpm2i01Y_rms vs run
χ² / ndf 197.8 / 73
p0 1207 ± 1.016
1260
1240
1220
1200
1180
1160

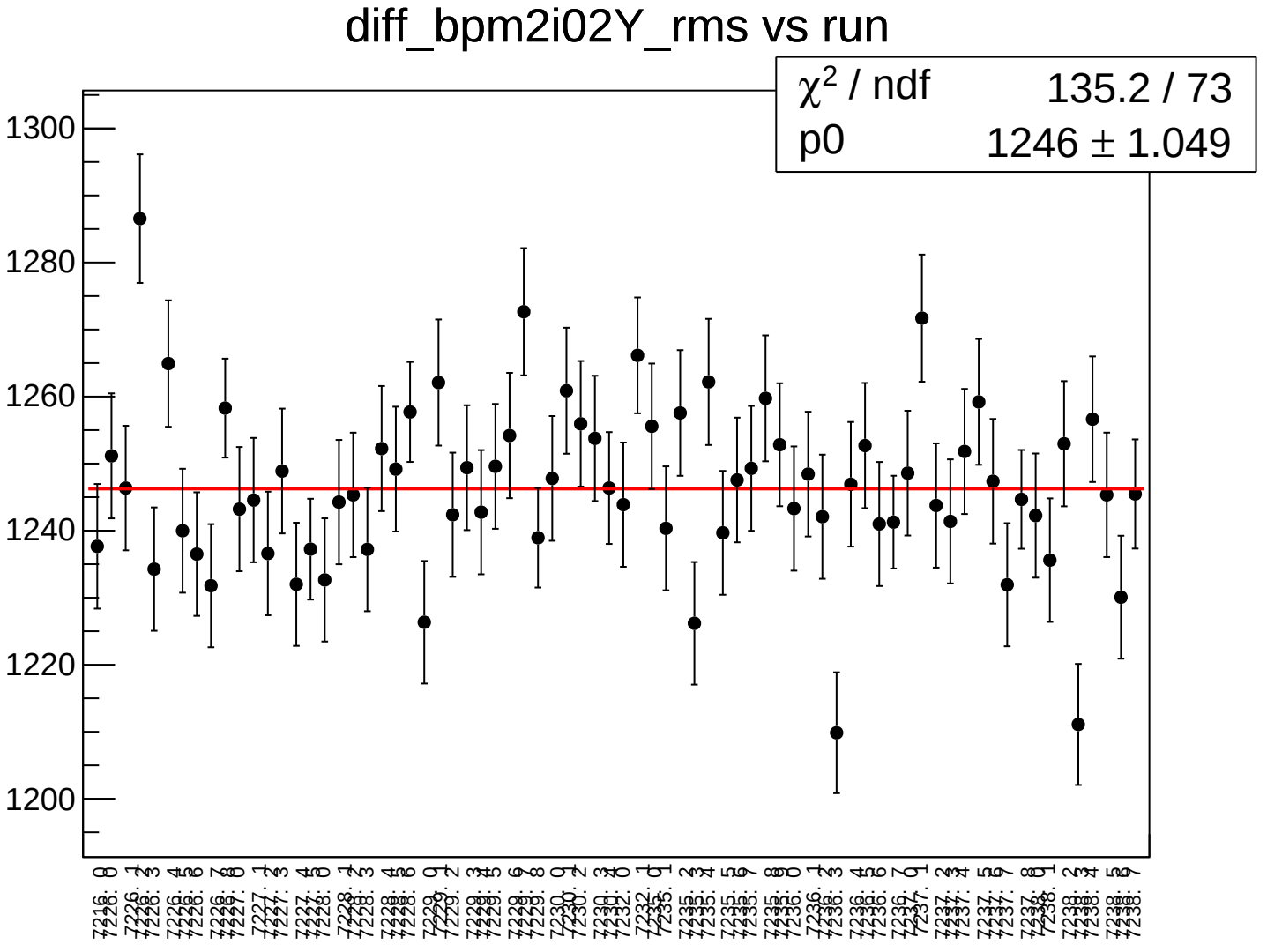

diff_bpm2i02X_mean vs run
χ² / ndf 65.47 / 73
p0 −12.06 ± 1.439
pull
Entries 74
Mean 540.6
Std Dev 503.9

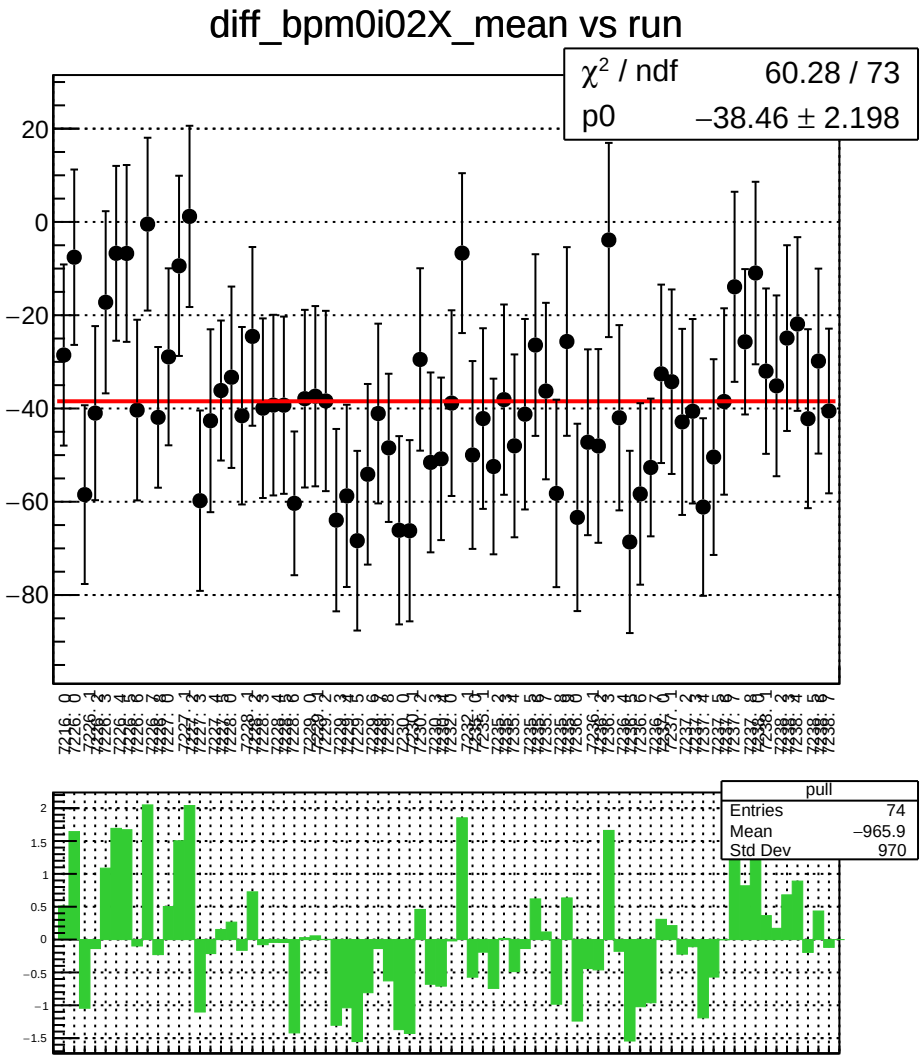

pull1D
Entries 74
Mean −0.006053
Std Dev 0.9406

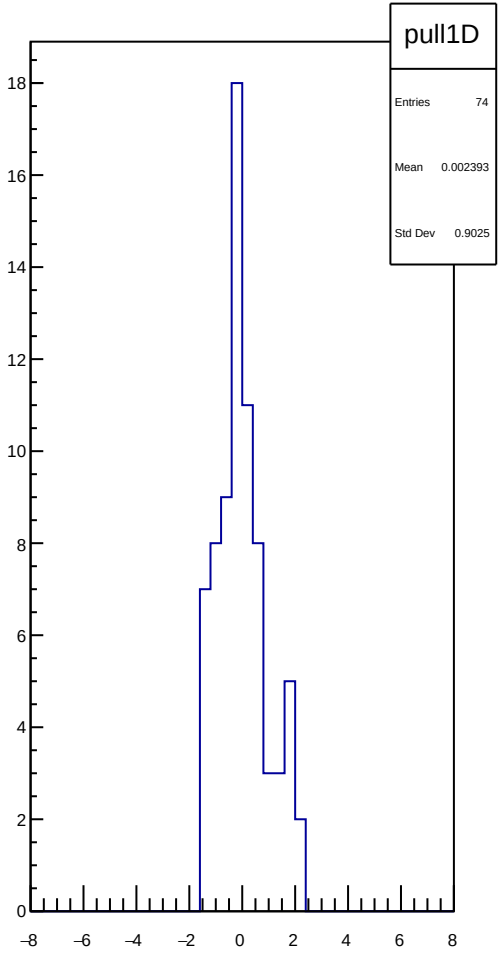

diff_bpm2i02X_rms vs run
χ² / ndf 109.8 / 73
p0 1209 ± 1.018
1240
1230
1220
1210
1200
1190
1180
1170

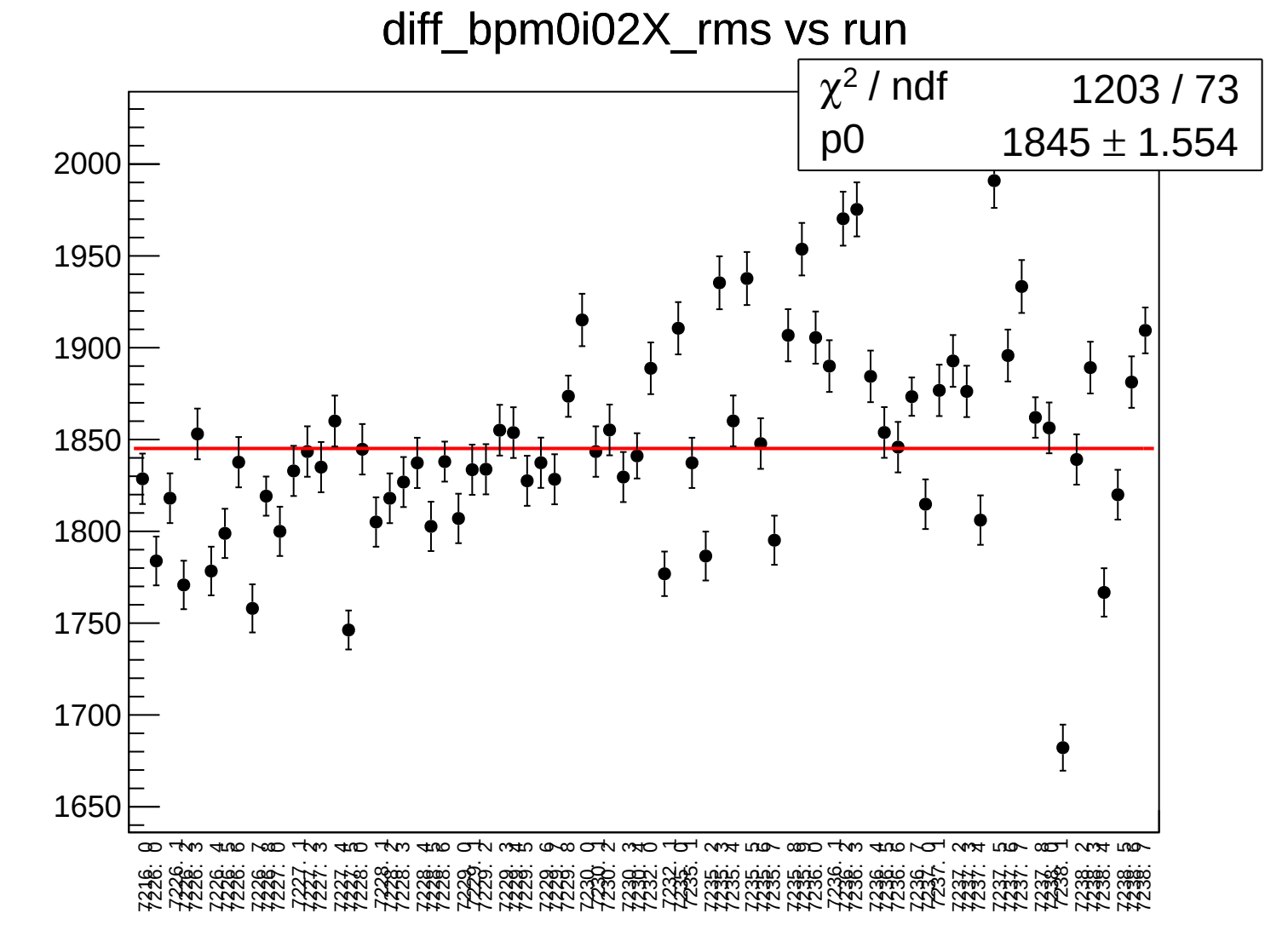

diff_bpm2i02Y_mean vs run
χ² / ndf 75.61 / 73
p0 −51.54 ± 1.484
pull
Entries 74
Mean 1124
Std Dev 1088

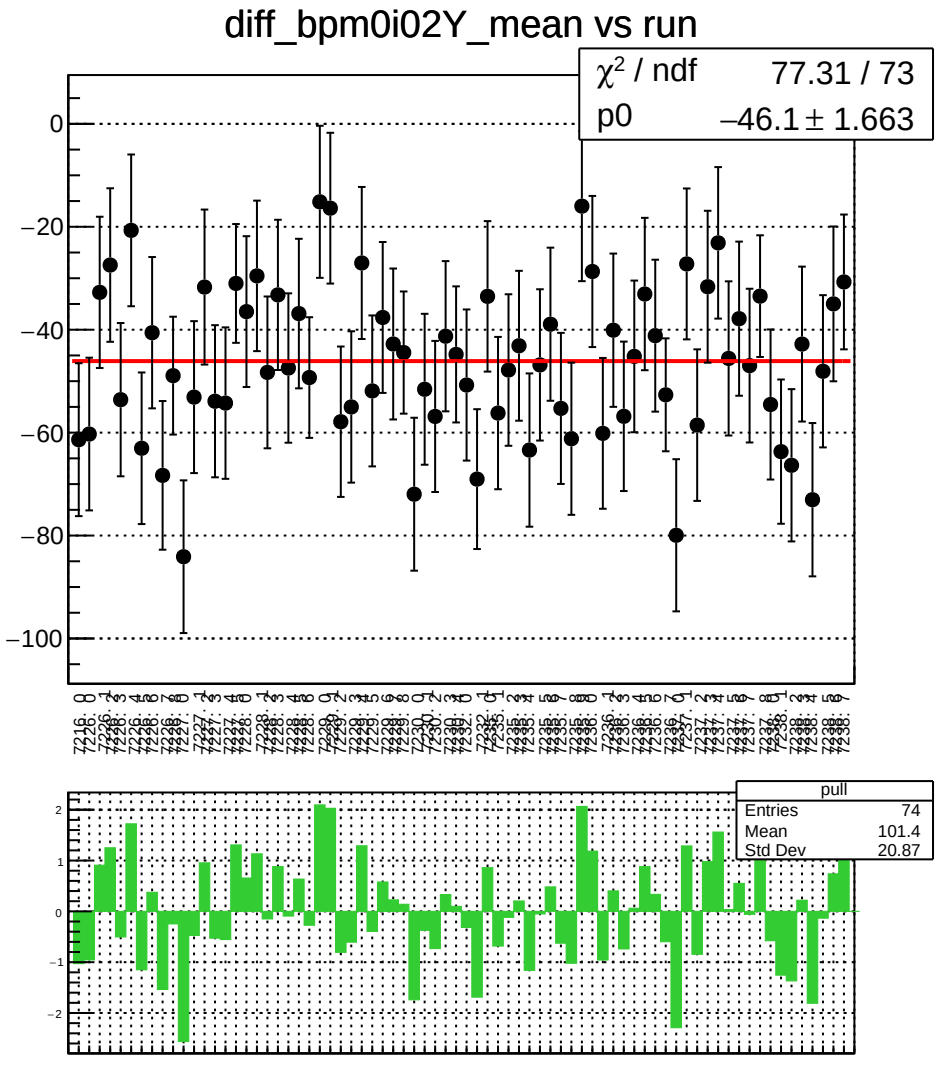

pull1D
Entries 74
Mean −0.007228
Std Dev 1.011

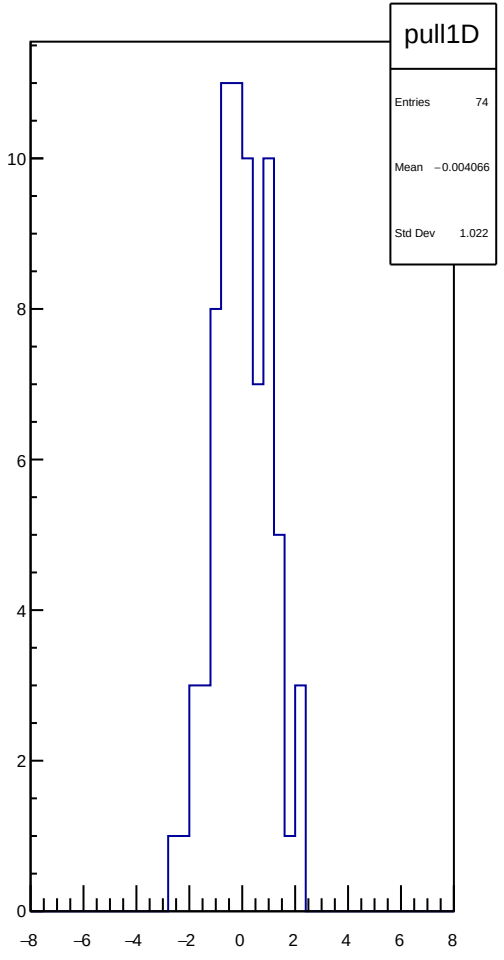

diff_bpm2i02Y_rms vs run
χ² / ndf 135.2 / 73
p0 1246 ± 1.049
1300
1280
1260
1240
1220
1200

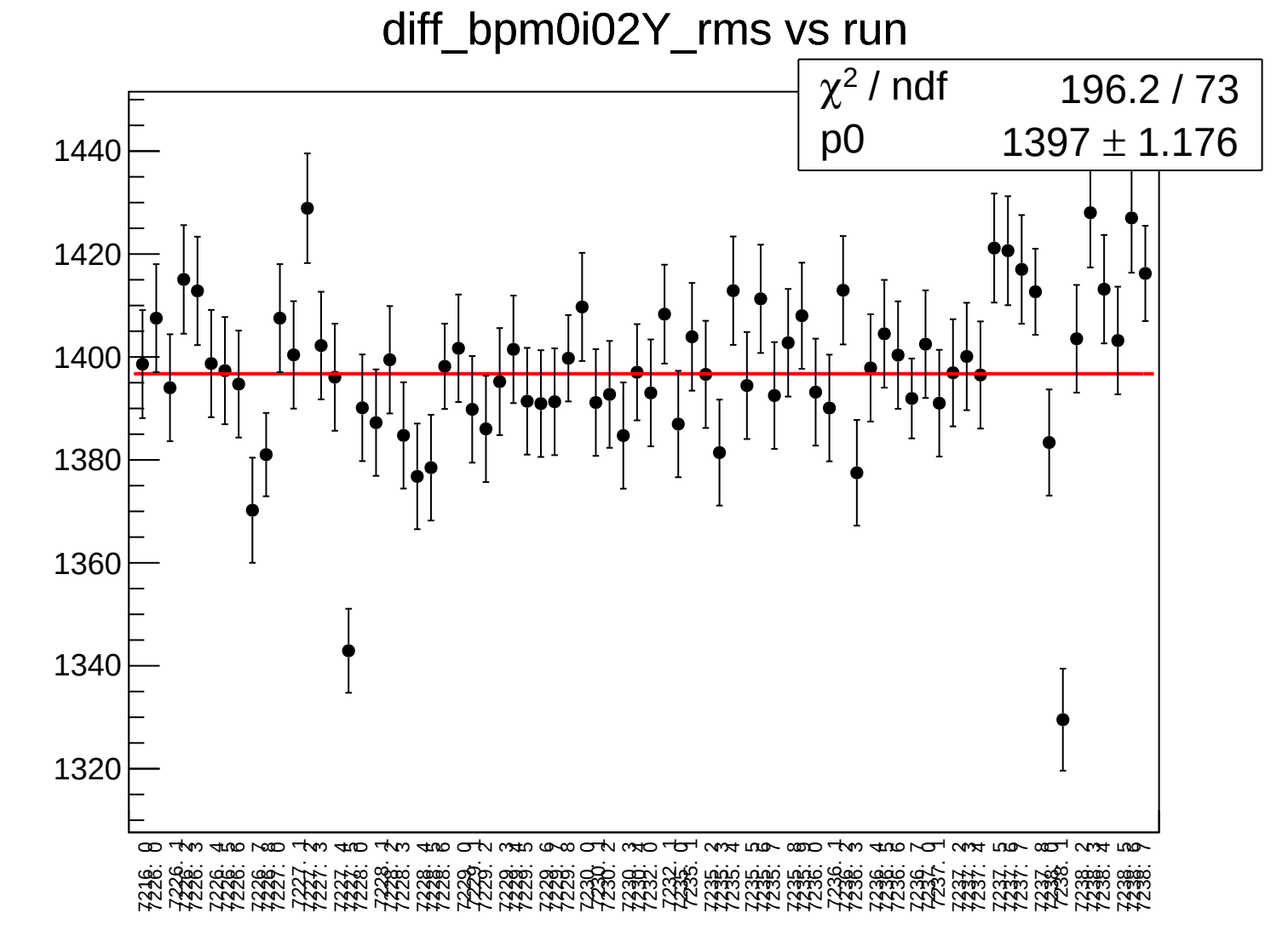

diff_bpm0i02X_mean vs run
χ² / ndf 60.28 / 73
p0 −38.46 ± 2.198
pull
Entries 74
Mean −965.9
Std Dev 970

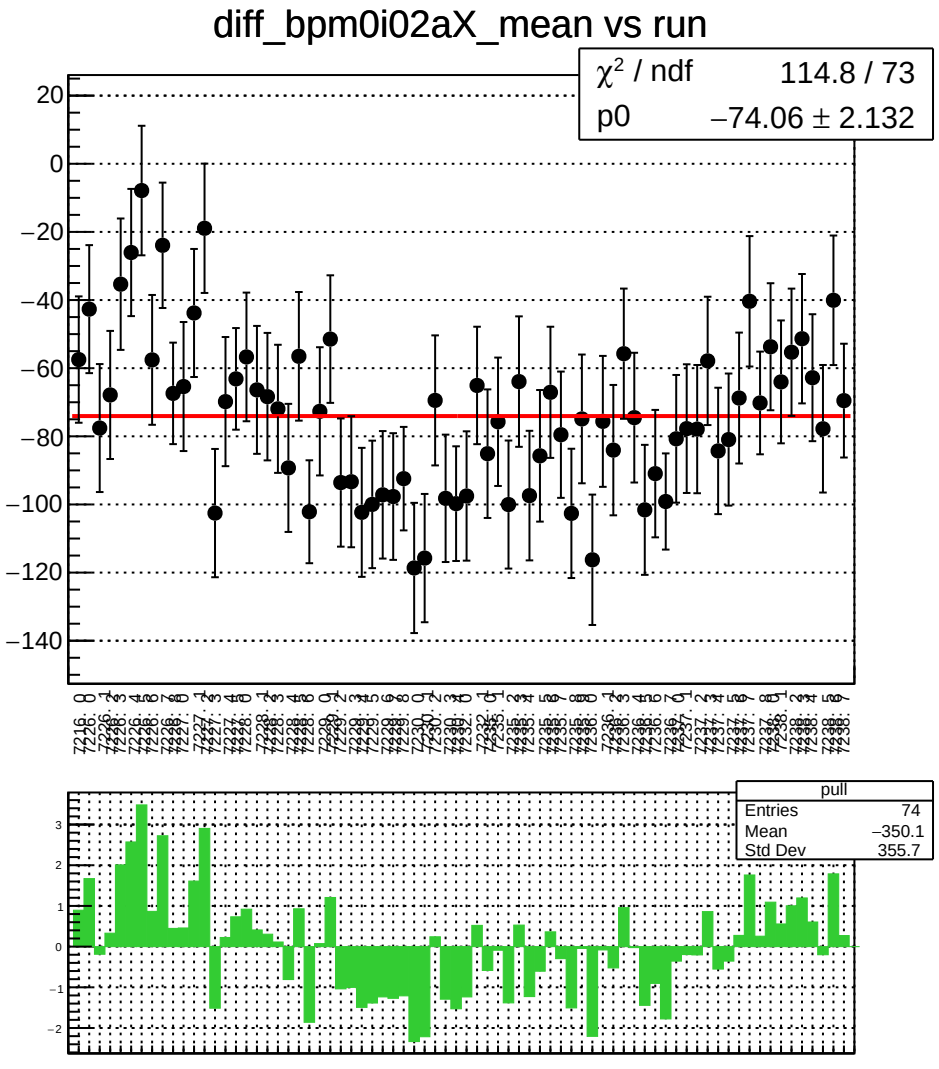

pull1D
Entries 74
Mean 0.002393
Std Dev 0.9025

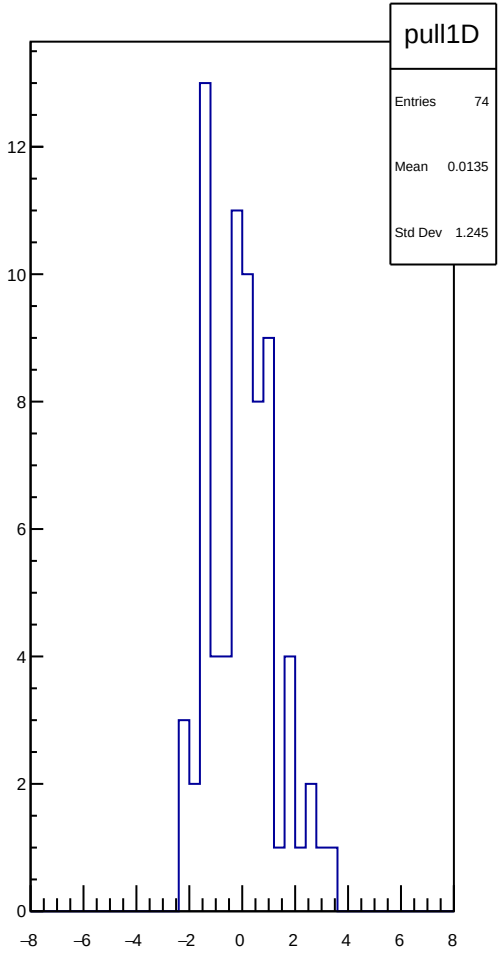

diff_bpm0i02X_rms vs run
χ² / ndf 1203 / 73
p0 1845 ± 1.554
2000
1950
1900
1850
1800
1750
1700
1650

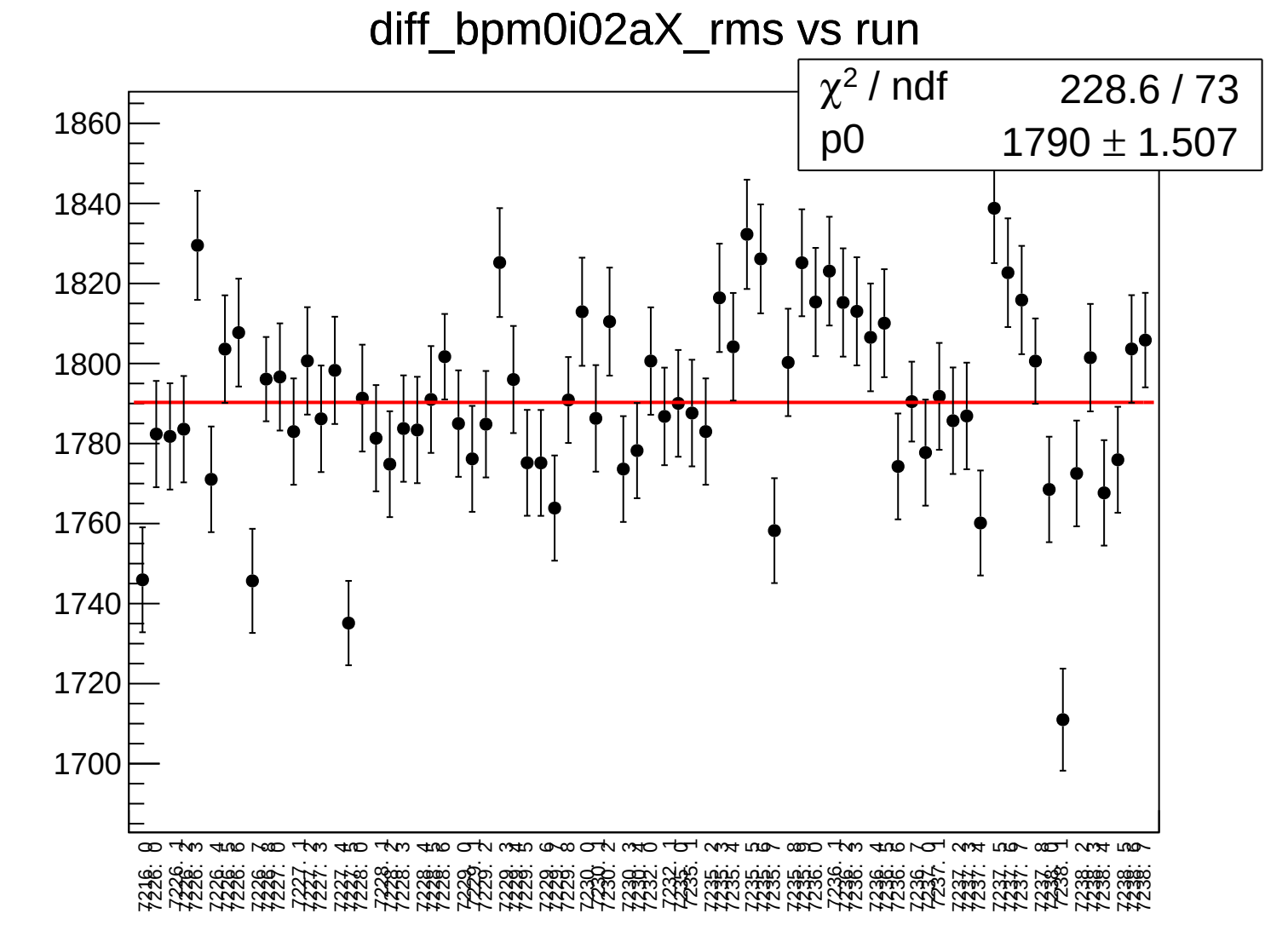

diff_bpm0i02Y_mean vs run
χ² / ndf 77.31 / 73
p0 −46.1 ± 1.663
pull
Entries 74
Mean 101.4
Std Dev 20.87

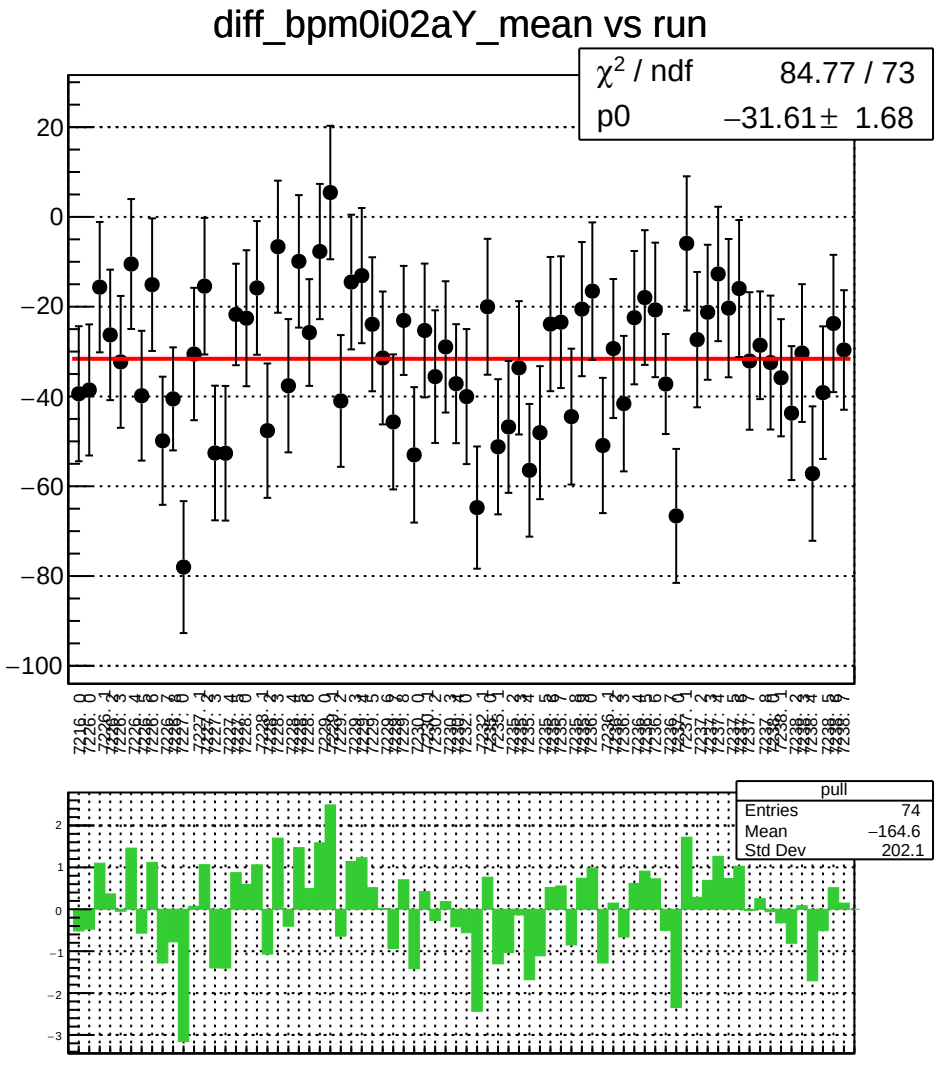

pull1D
Entries 74
Mean −0.004066
Std Dev 1.022

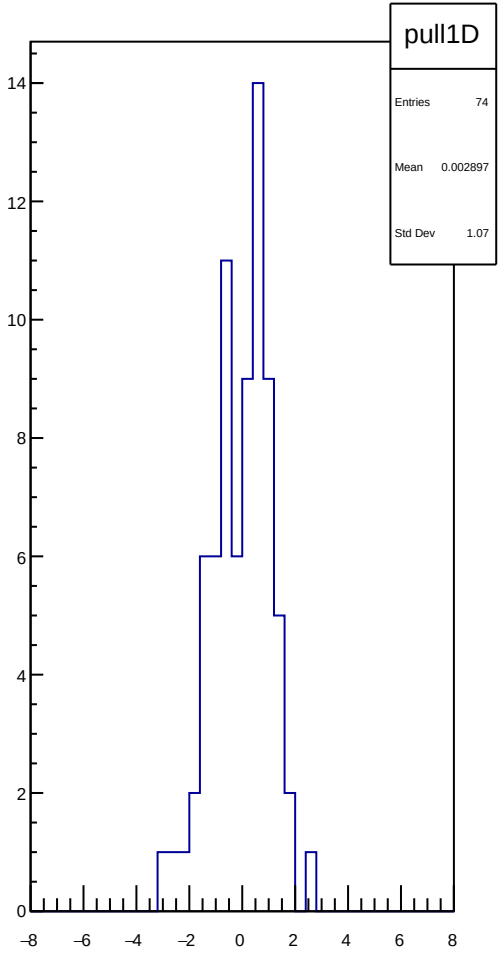

diff_bpm0i02Y_rms vs run
χ² / ndf 196.2 / 73
p0 1397 ± 1.176
1440
1420
1400
1380
1360
1340
1320

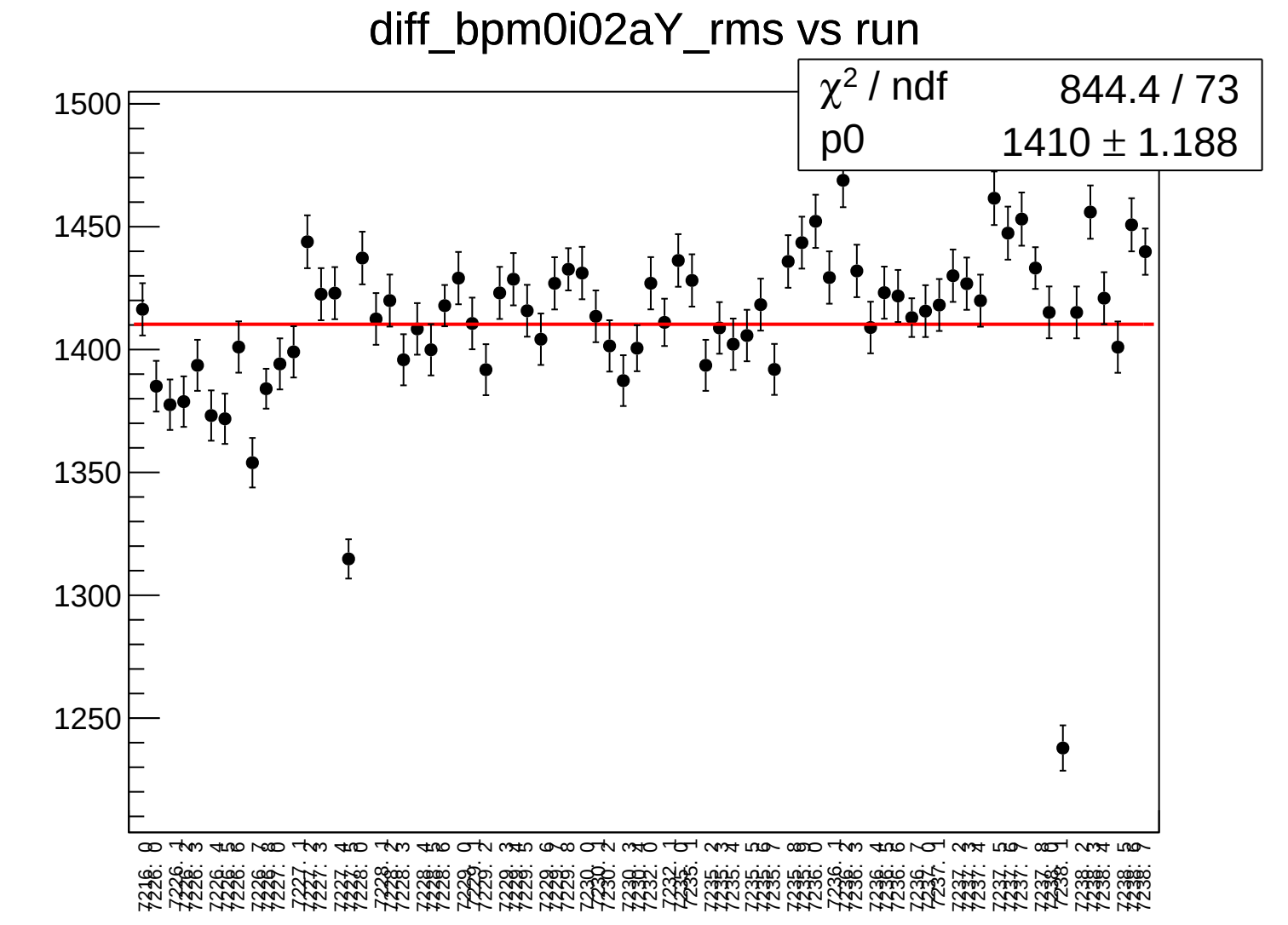

diff_bpm0i02aX_mean vs run
χ² / ndf 114.8 / 73
p0 −74.06 ± 2.132
pull
Entries 74
Mean −350.1
Std Dev 355.7

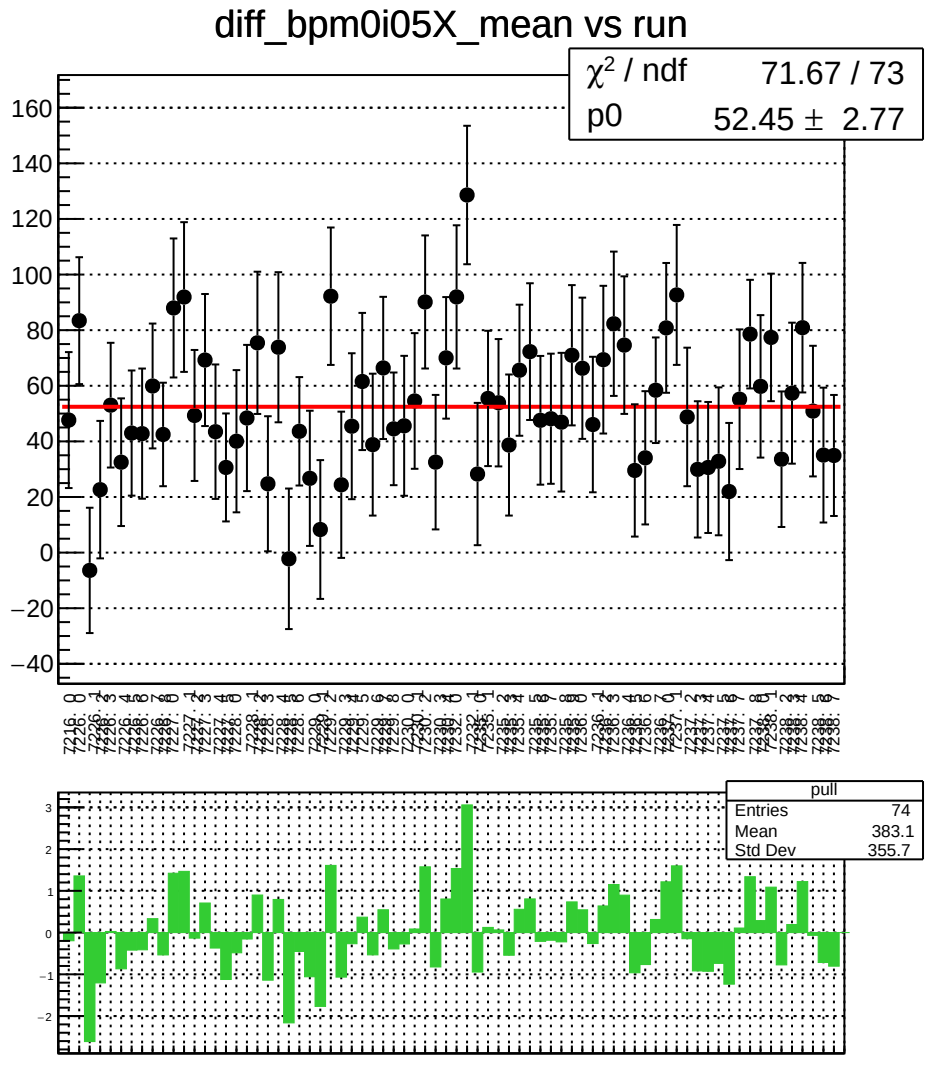

pull1D
Entries 74
Mean 0.0135
Std Dev 1.245

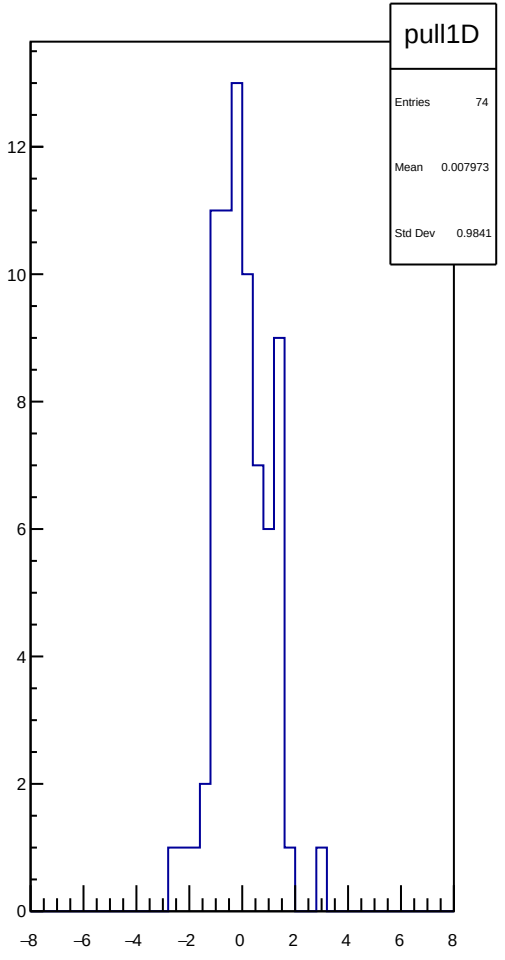

diff_bpm0i02aX_rms vs run
χ² / ndf 228.6 / 73
p0 1790 ± 1.507
1860
1840
1820
1800
1780
1760
1740
1720
1700

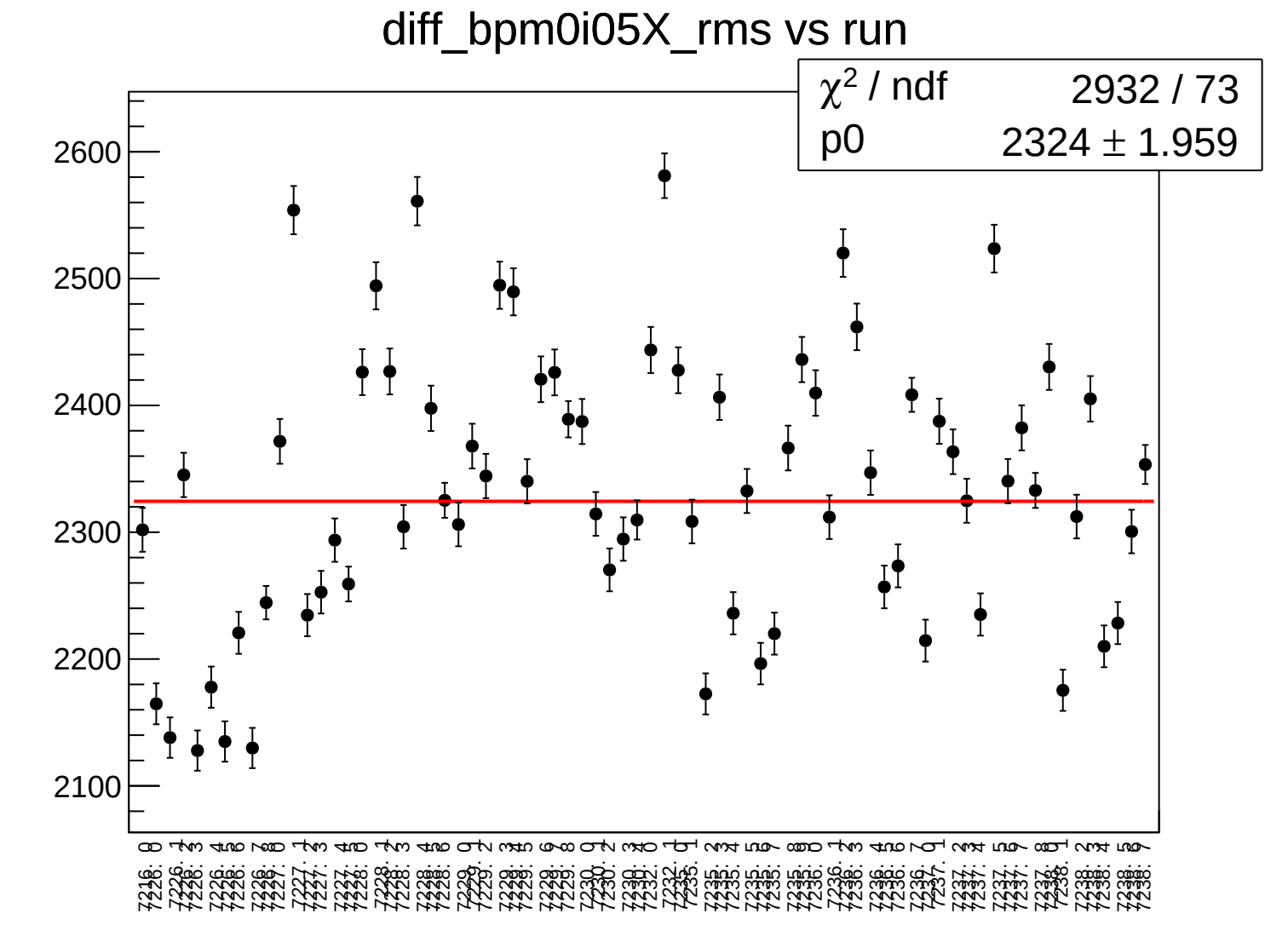

diff_bpm0i02aY_mean vs run
χ² / ndf 84.77 / 73
p0 −31.61 ± 1.68
pull
Entries 74
Mean −164.6
Std Dev 202.1

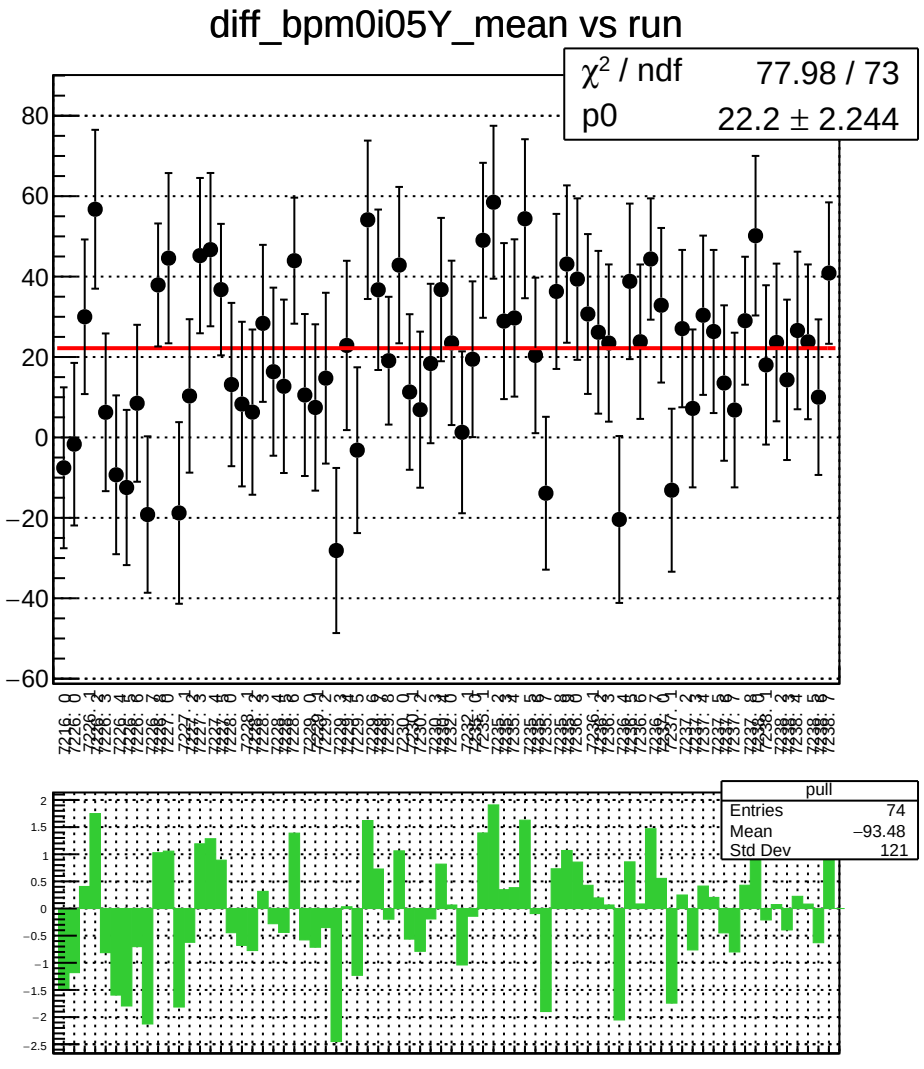

pull1D
Entries 74
Mean 0.002897
Std Dev 1.07

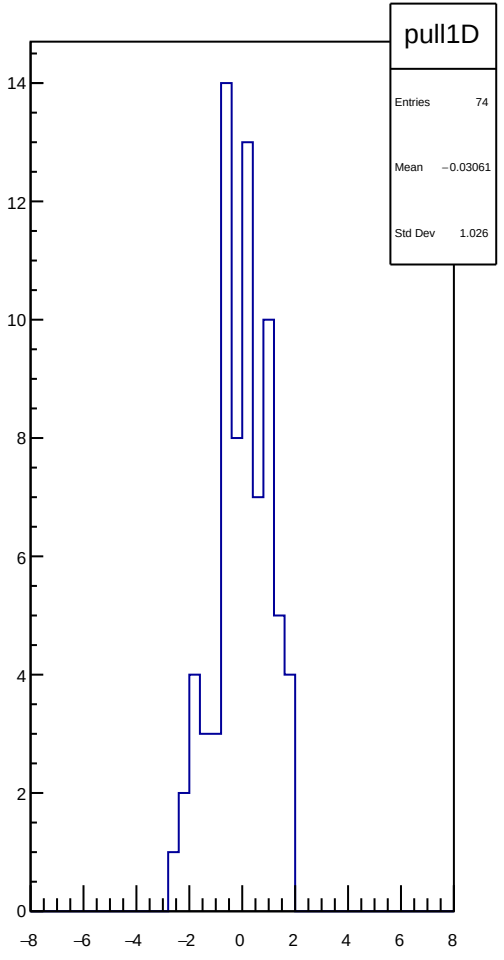

diff_bpm0i02aY_rms vs run
χ² / ndf 844.4 / 73
p0 1410 ± 1.188
1500
1450
1400
1350
1300
1250

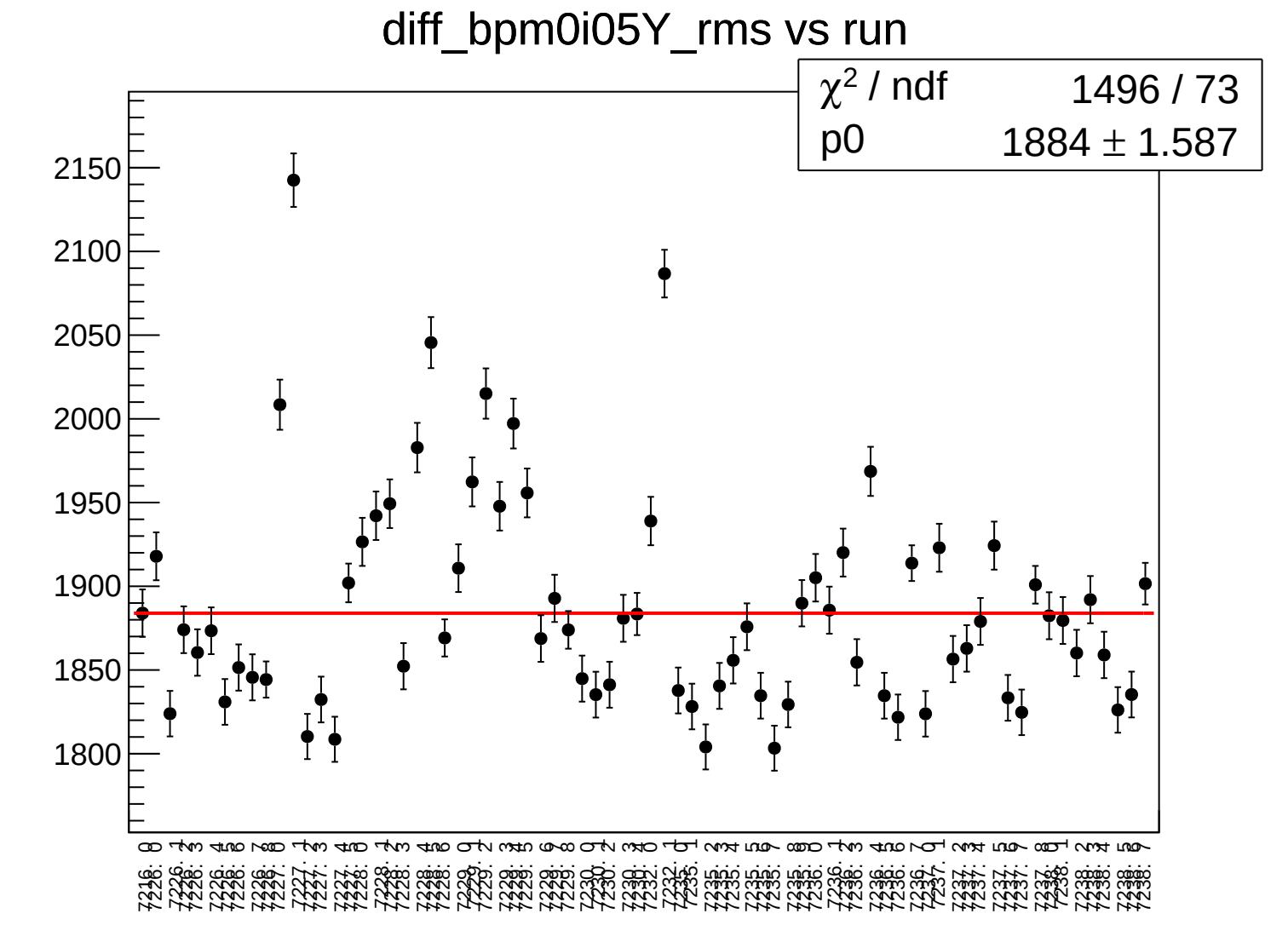

diff_bpm0i05X_mean vs run
χ² / ndf 71.67 / 73
p0 52.45 ± 2.77
pull
Entries 74
Mean 383.1
Std Dev 355.7

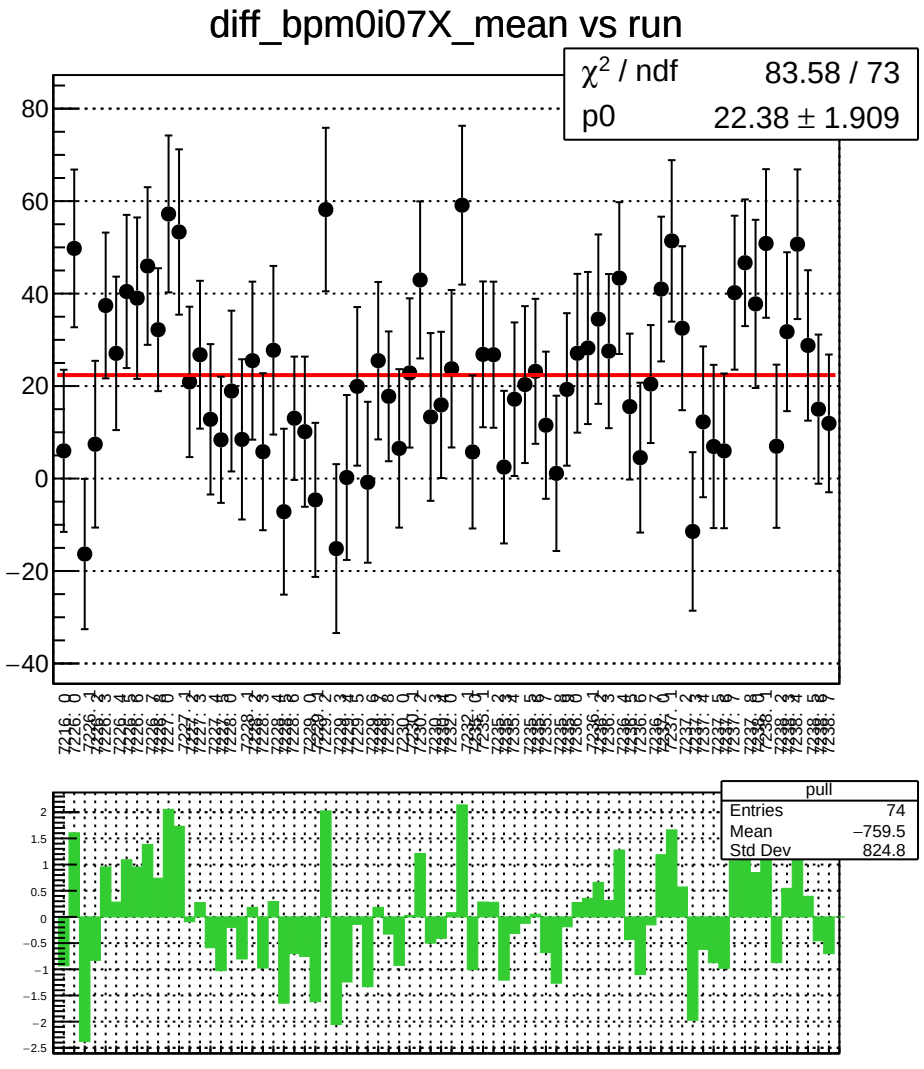

pull1D
Entries 74
Mean 0.007973
Std Dev 0.9841

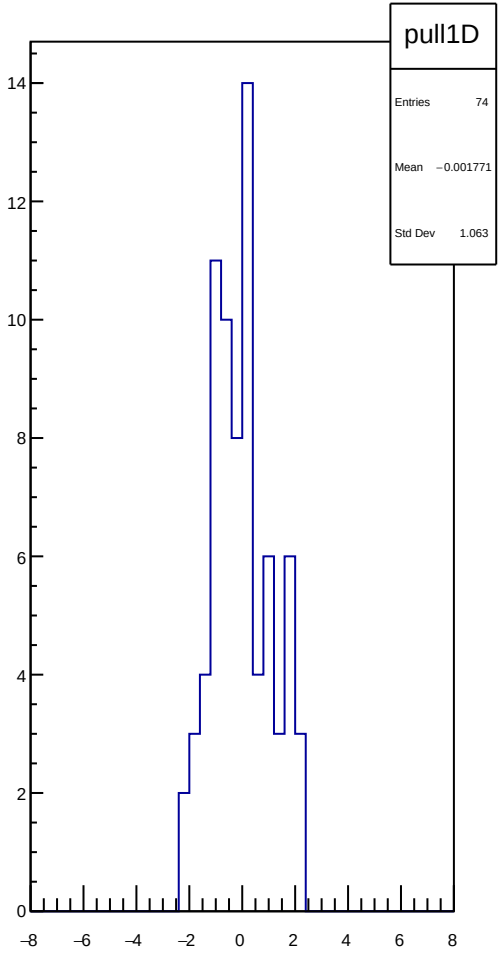

diff_bpm0i05X_rms vs run
χ^2 / ndf 2932 / 73
p0 2324 ± 1.959
2600
2500
2400
2300
2200
2100

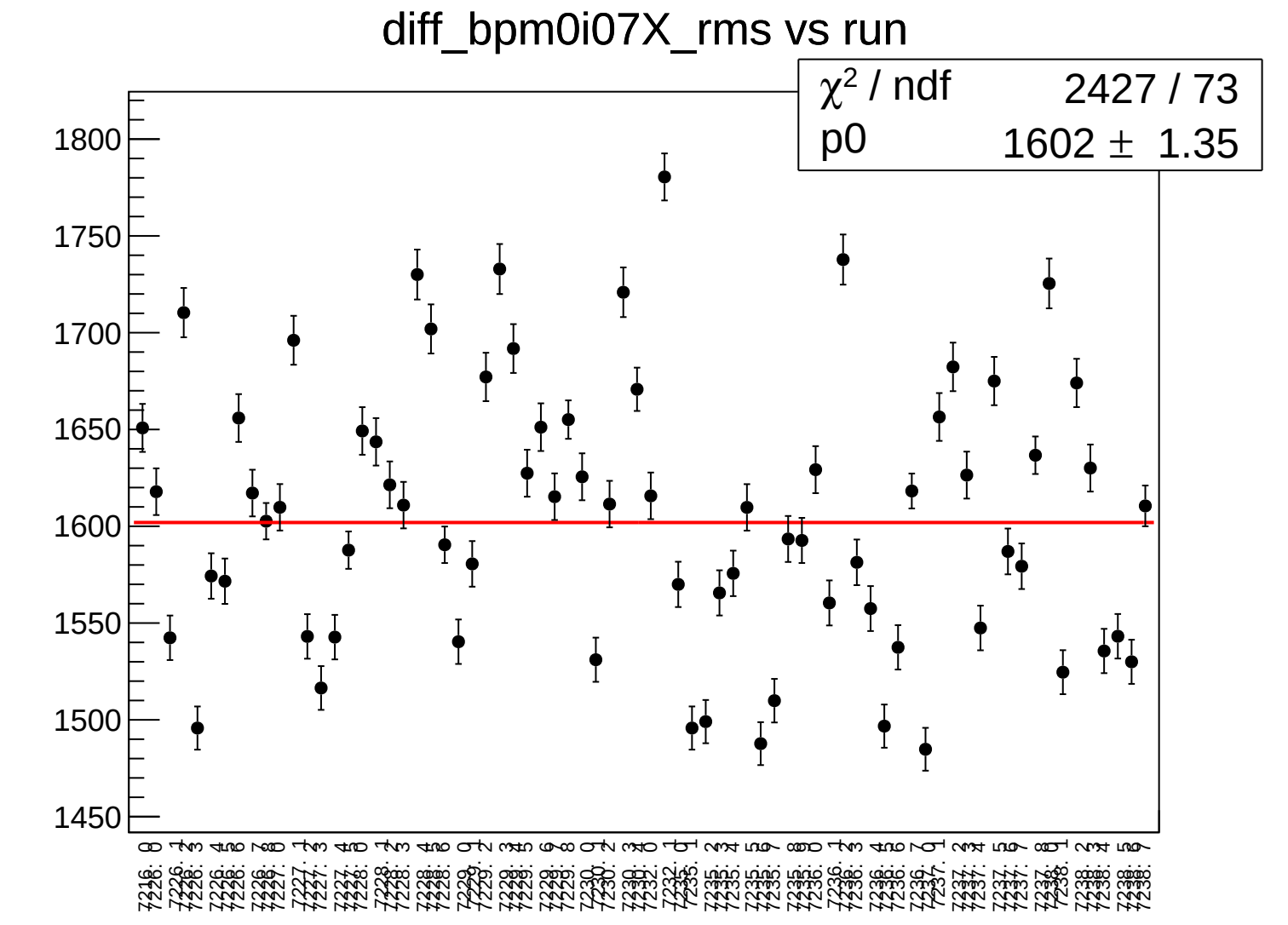

diff_bpm0i05Y_mean vs run
χ² / ndf 77.98 / 73
p0 22.2 ± 2.244
pull
Entries 74
Mean −93.48
Std Dev 121

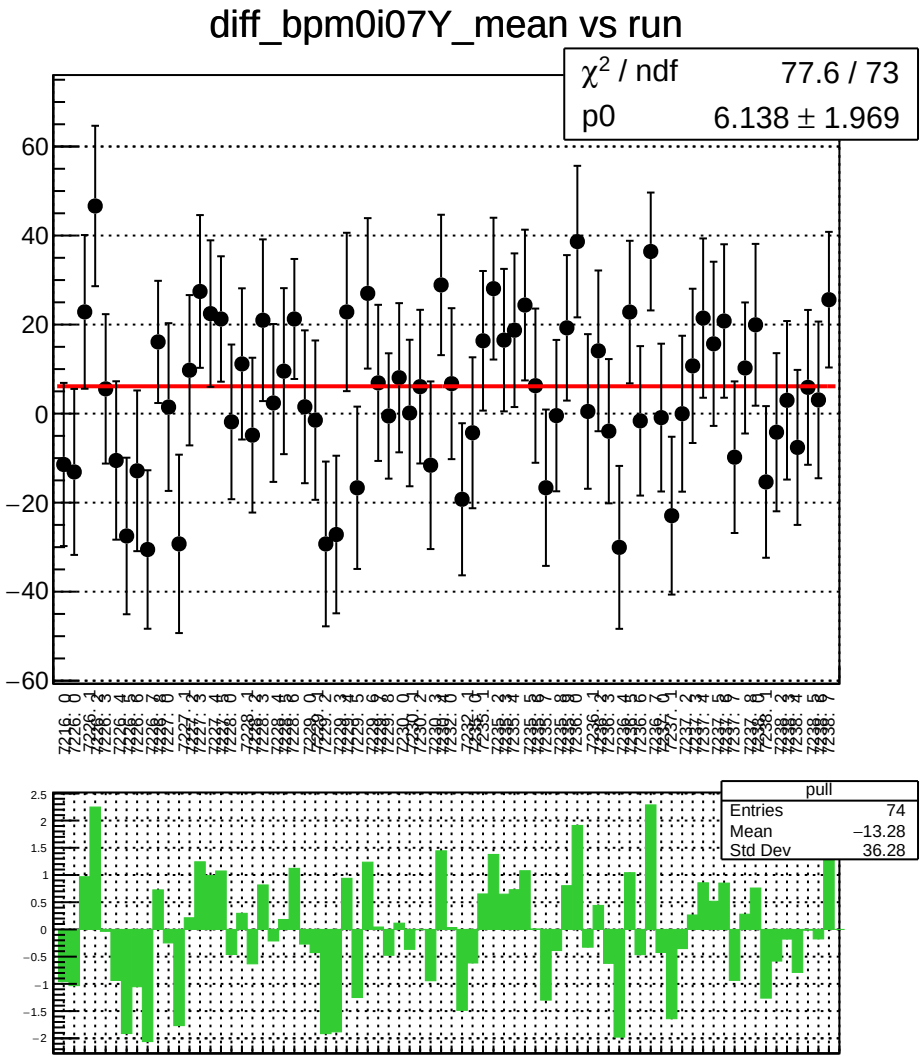

pull1D
Entries 74
Mean −0.03061
Std Dev 1.026

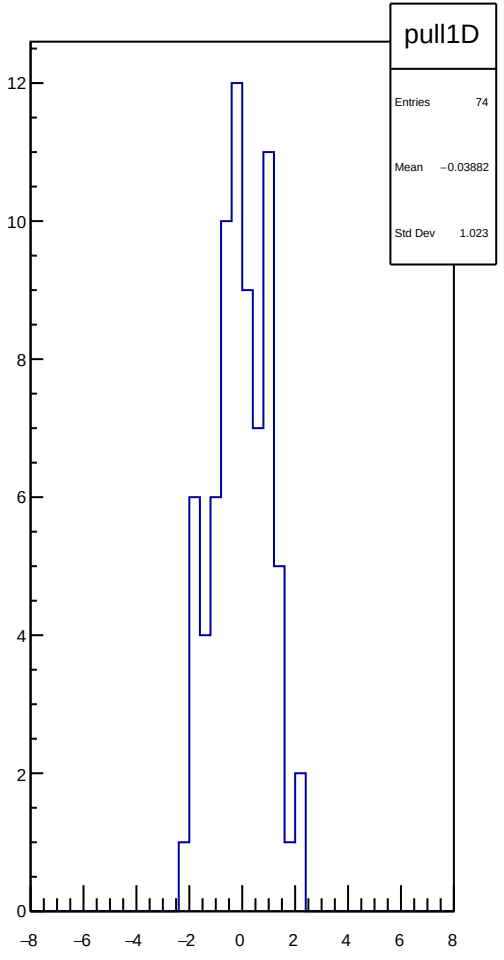

diff_bpm0i05Y_rms vs run
χ² / ndf 1496 / 73
p0 1884 ± 1.587
2150
2100
2050
2000
1950
1900
1850
1800

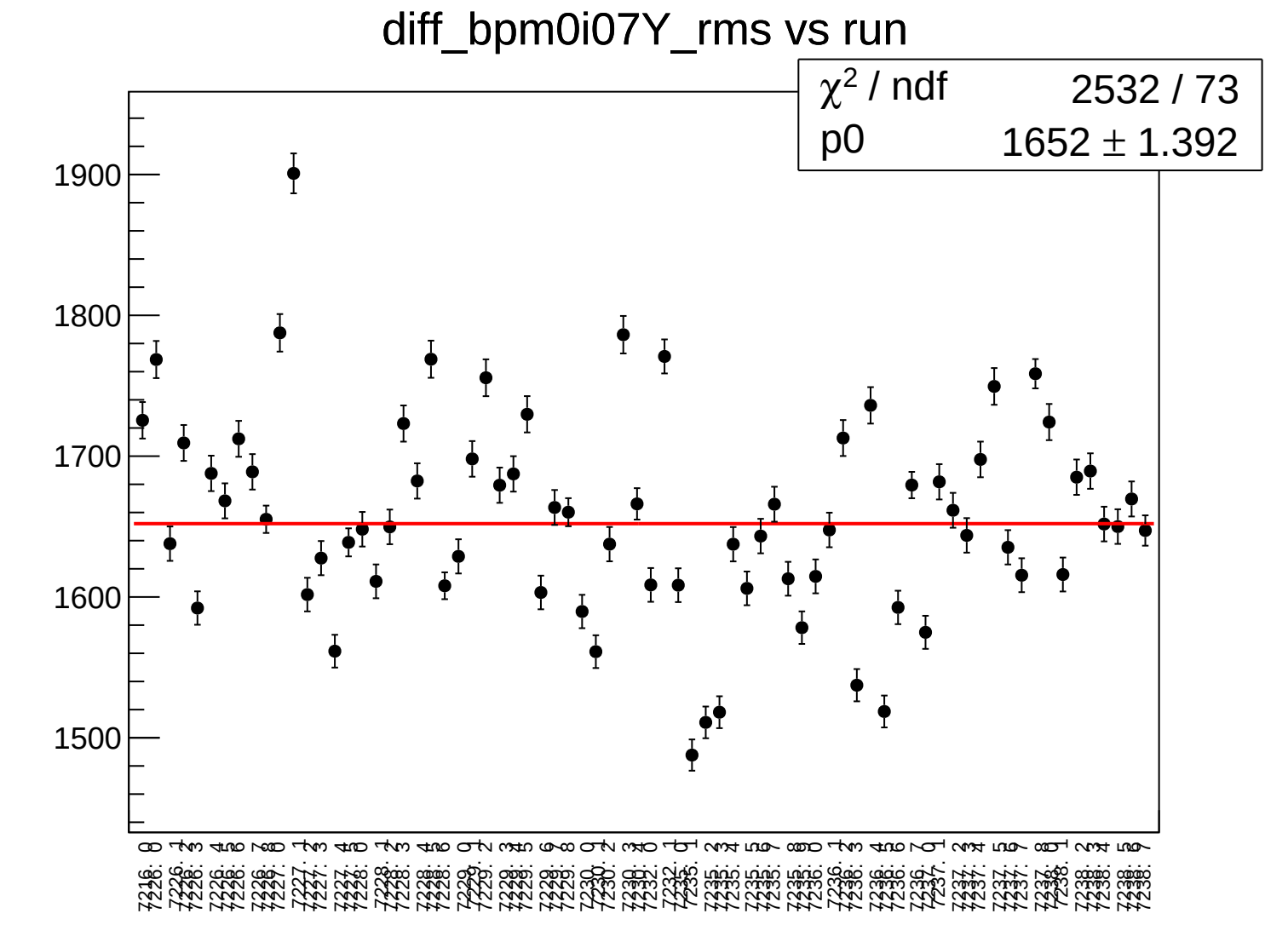

diff_bpm0i07X_mean vs run
χ² / ndf 83.58 / 73
p0 22.38 ± 1.909
pull
Entries 74
Mean −759.5
Std Dev 824.8

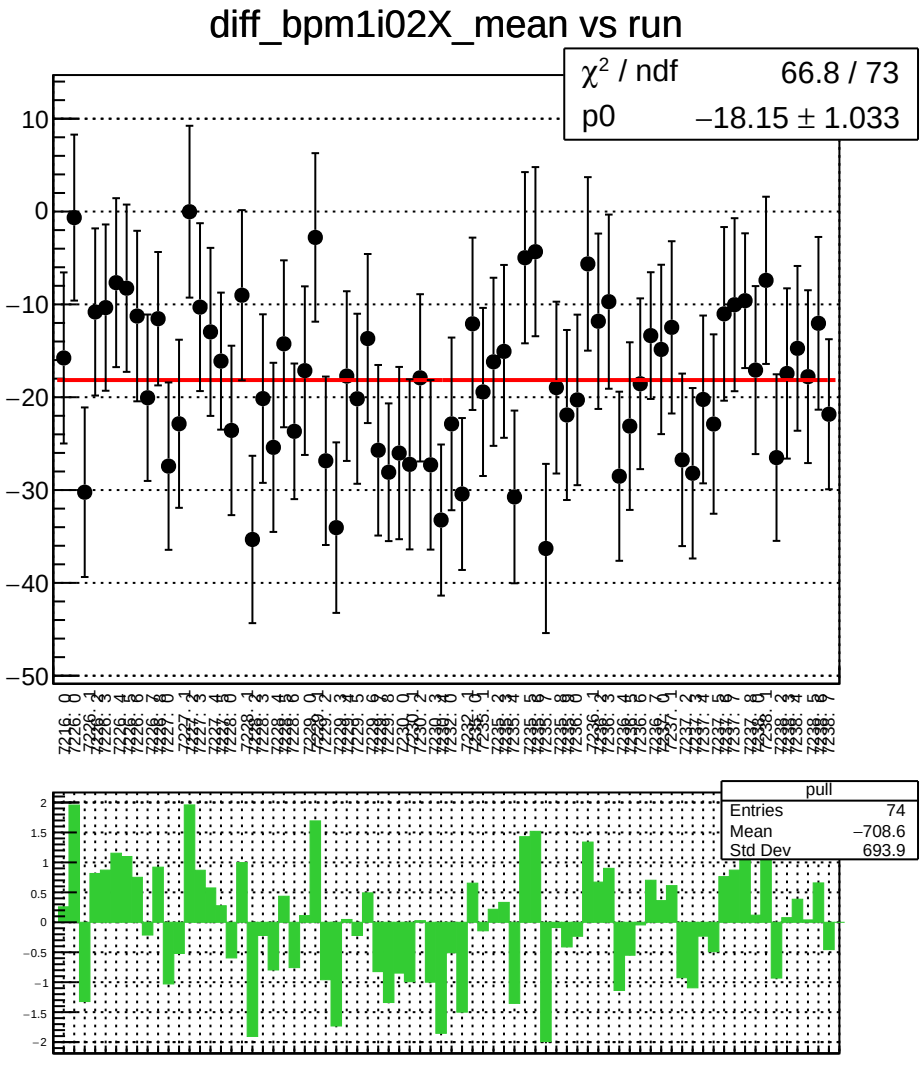

pull1D
Entries 74
Mean −0.001771
Std Dev 1.063

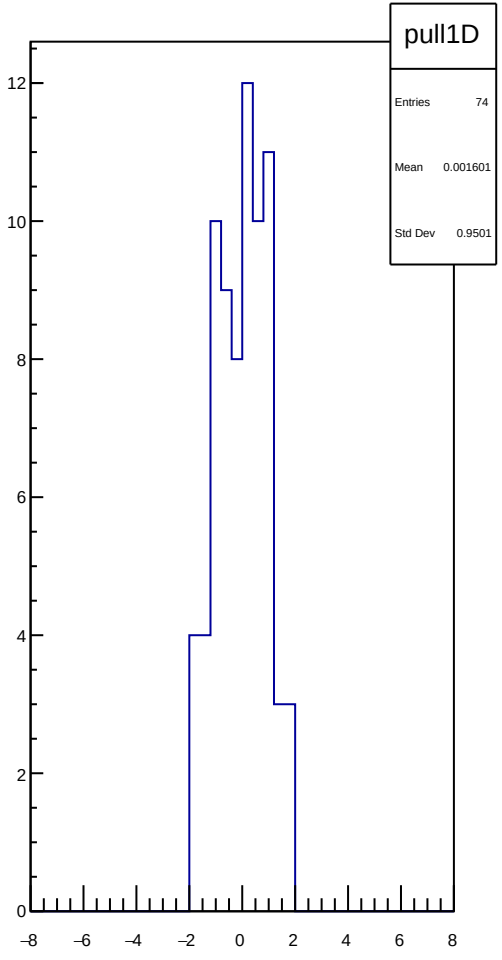

diff_bpm0i07X_rms vs run
χ² / ndf 2427 / 73
p0 1602 ± 1.35
1800
1750
1700
1650
1600
1550
1500
1450

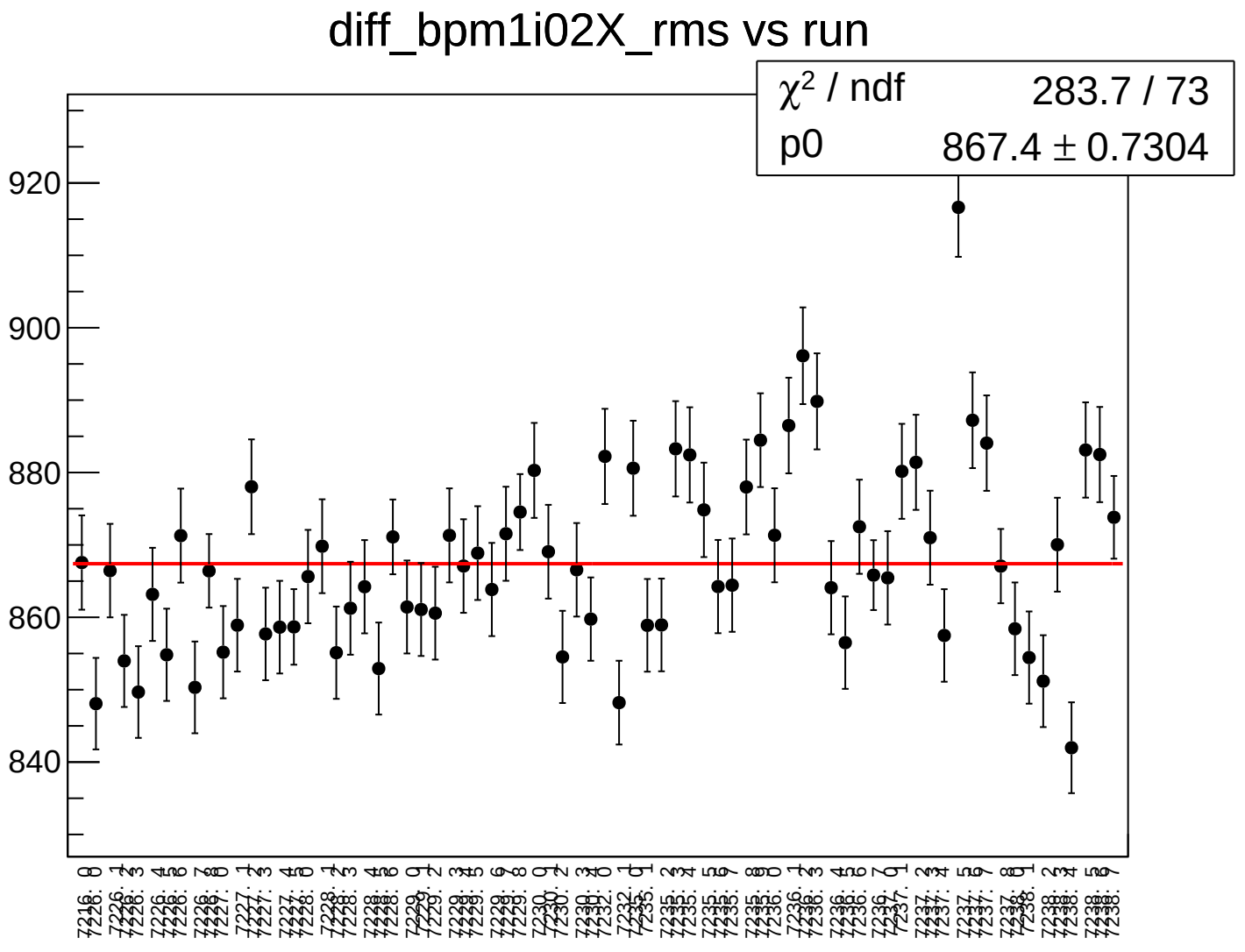

diff_bpm0i07Y_mean vs run
χ² / ndf 77.6 / 73
p0 6.138 ± 1.969
pull
Entries 74
Mean −13.28
Std Dev 36.28

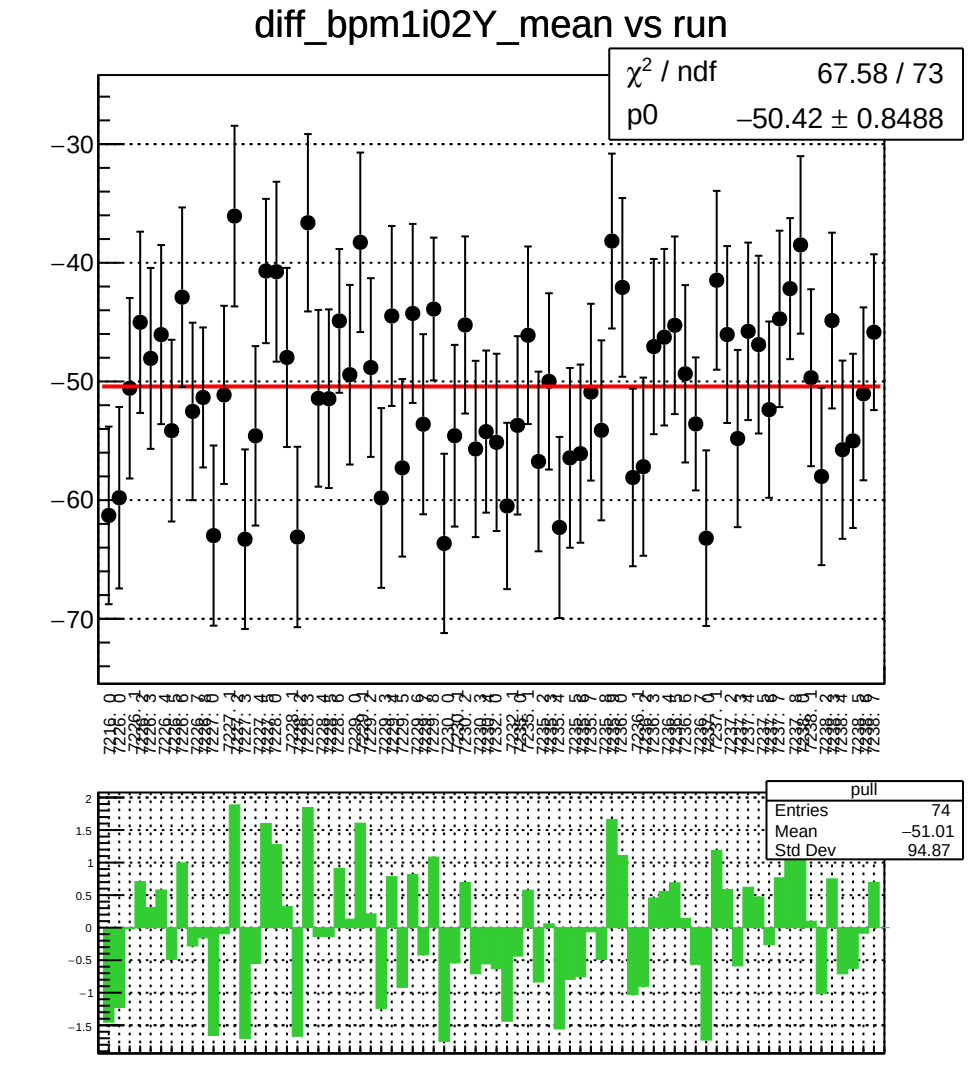

pull1D
Entries 74
Mean −0.03882
Std Dev 1.023

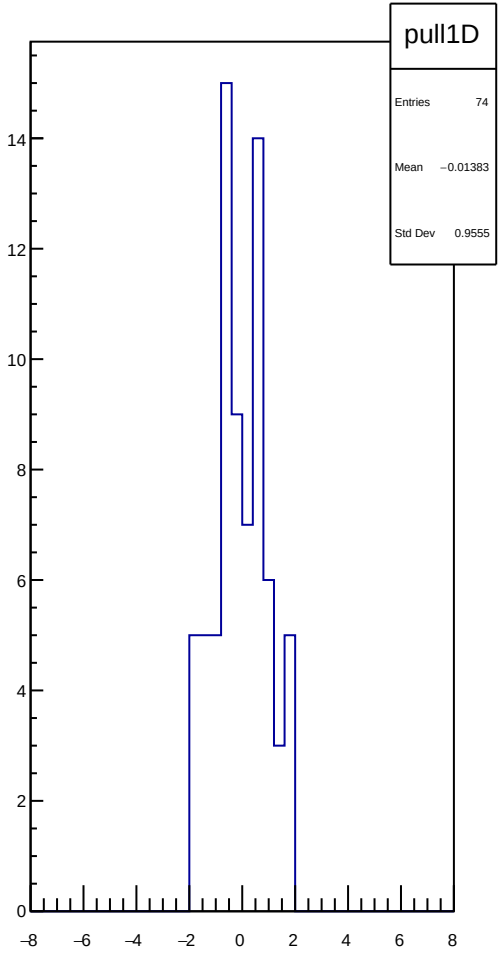

diff_bpm0i07Y_rms vs run
χ^2 / ndf 2532 / 73
p0 1652 ± 1.392
1900
1800
1700
1600
1500

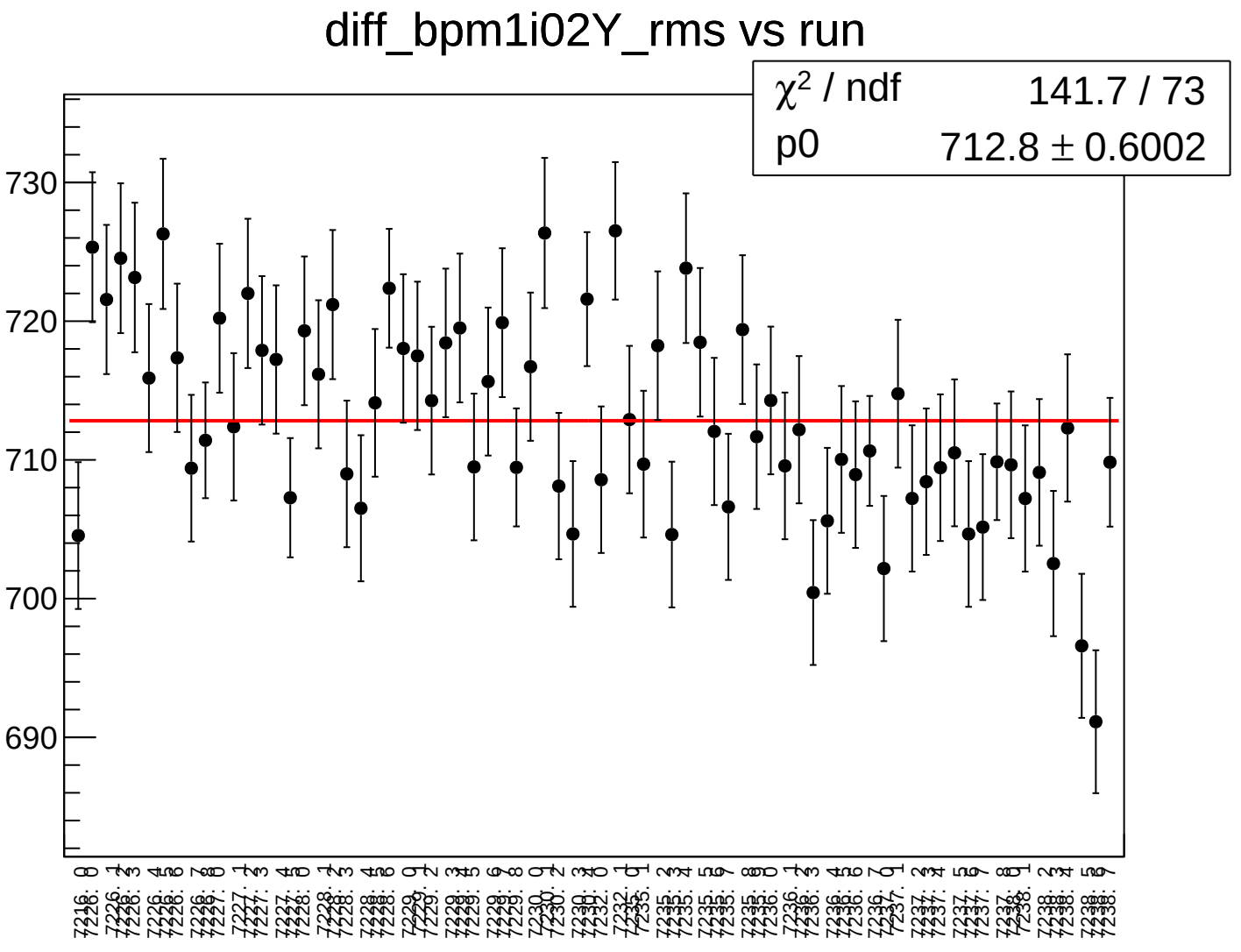

diff_bpm1i02X_mean vs run
χ² / ndf 66.8 / 73
p0 −18.15 ± 1.033
pull
Entries 74
Mean −708.6
Std Dev 693.9

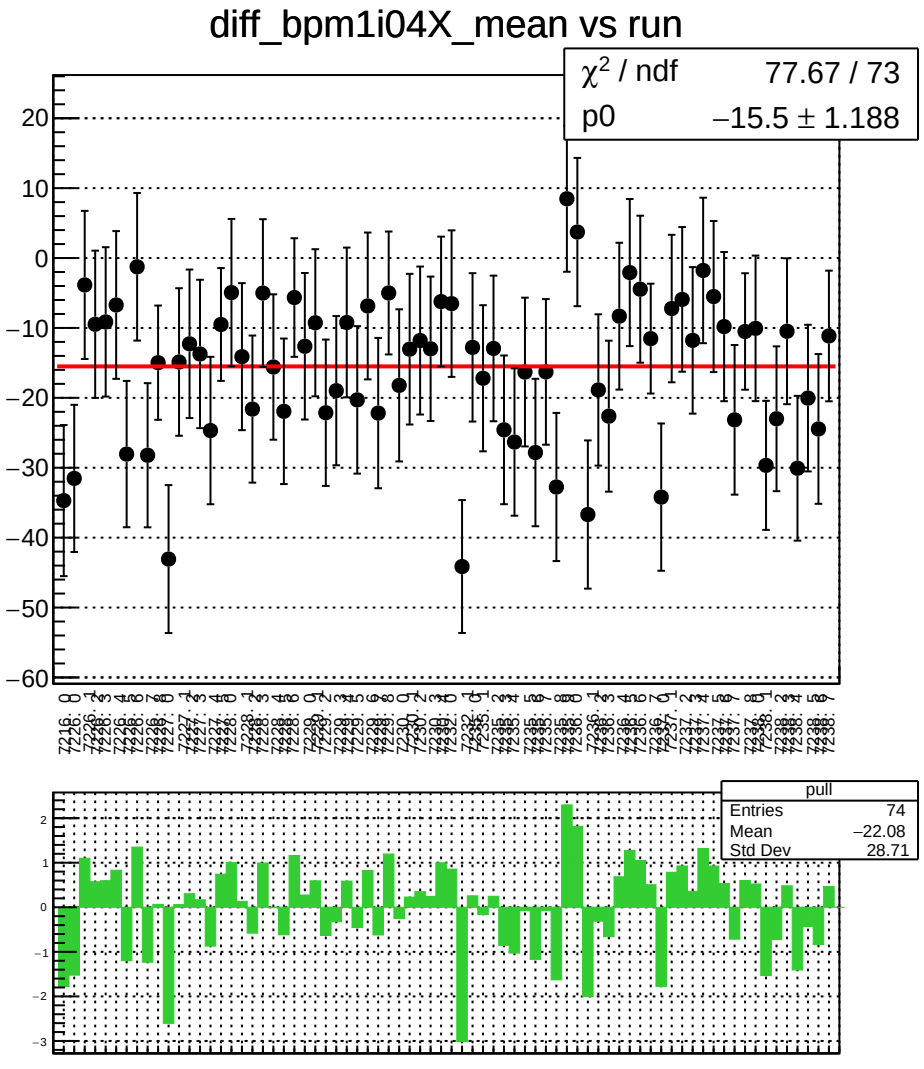

pull1D
Entries 74
Mean 0.001601
Std Dev 0.9501

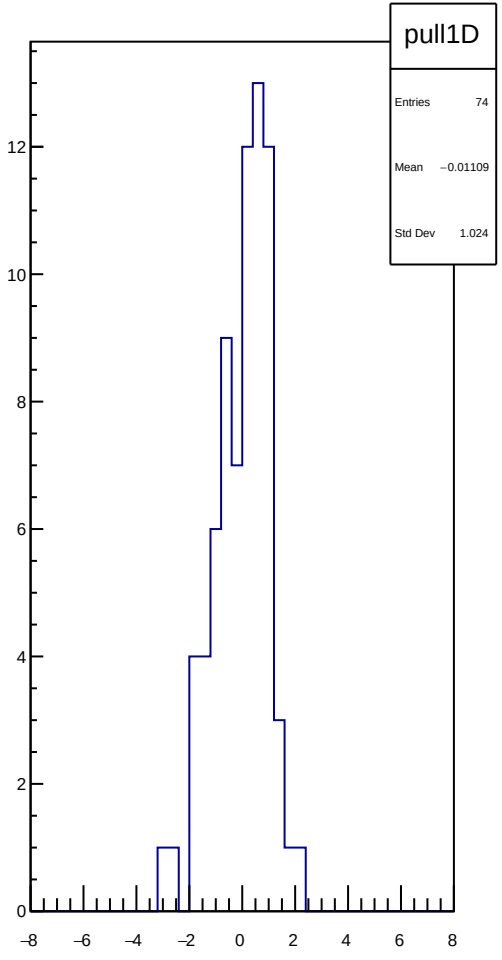

diff_bpm1i02X_rms vs run
χ² / ndf 283.7 / 73
p0 867.4 ± 0.7304
920
900
880
860
840

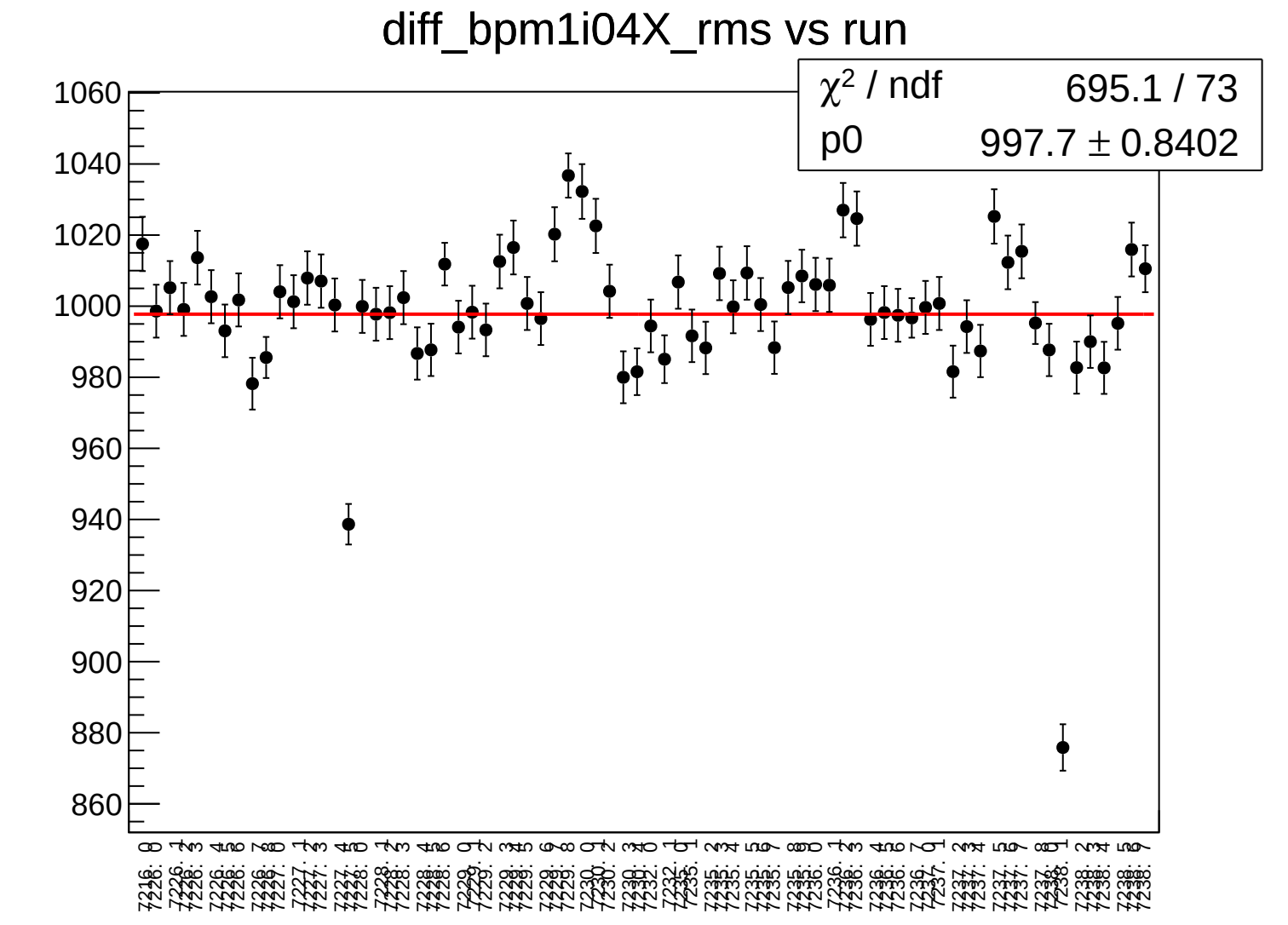

diff_bpm1i02Y_mean vs run
χ² / ndf 67.58 / 73
p0 −50.42 ± 0.8488
pull
Entries 74
Mean −51.01
Std Dev 94.87

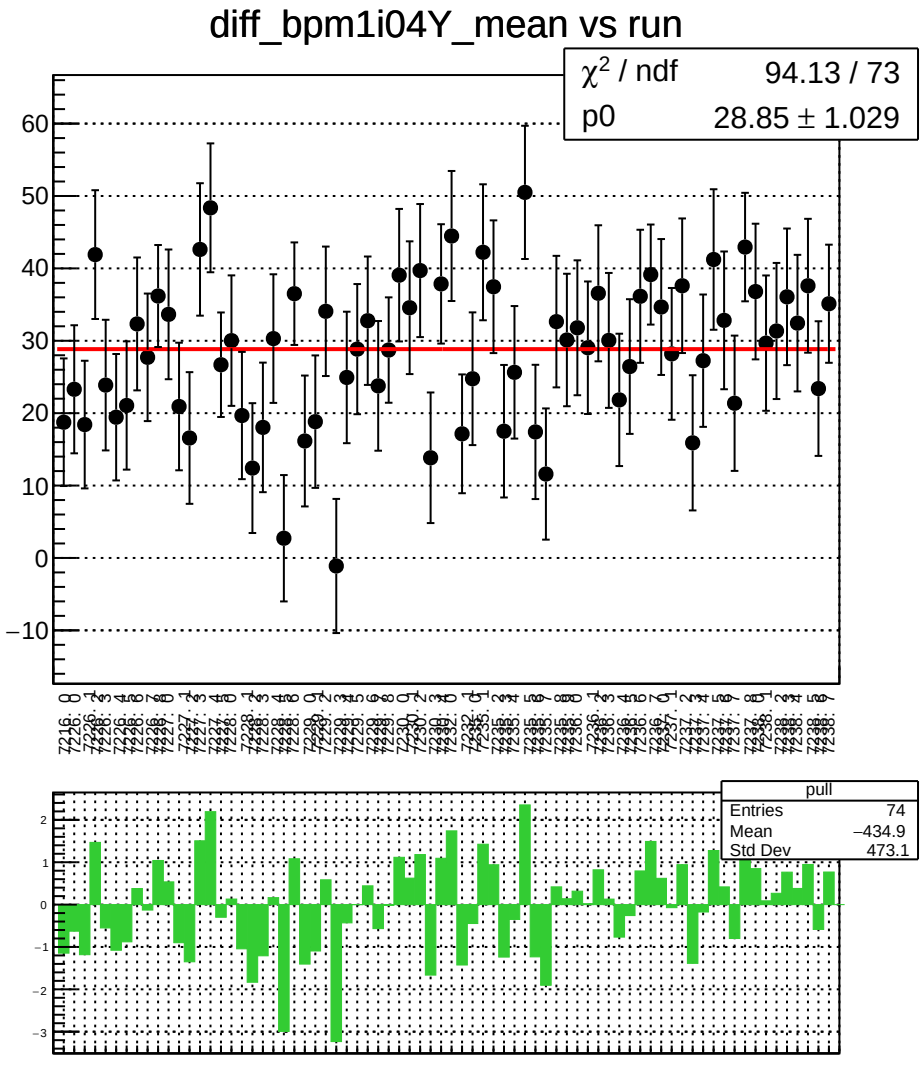

pull1D
Entries 74
Mean −0.01383
Std Dev 0.9555

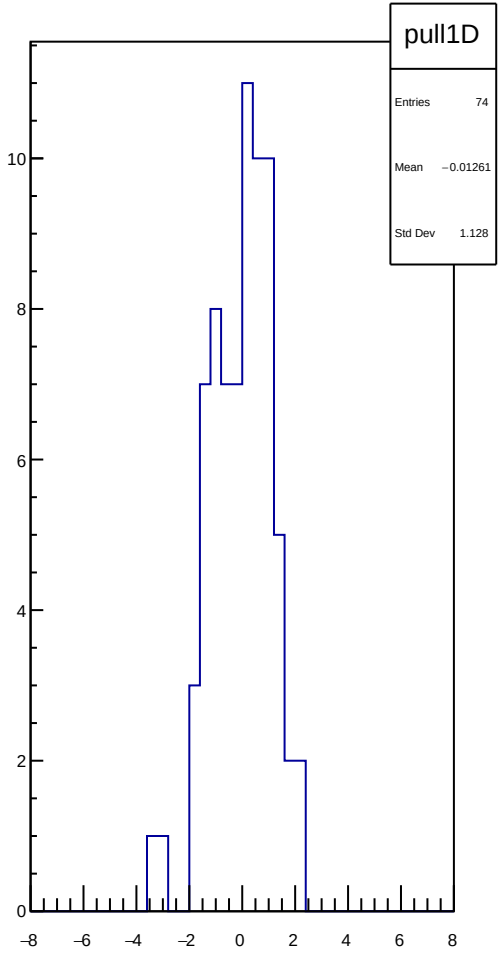

diff_bpm1i02Y_rms vs run
χ² / ndf 141.7 / 73
p0 712.8 ± 0.6002
730
720
710
700
690

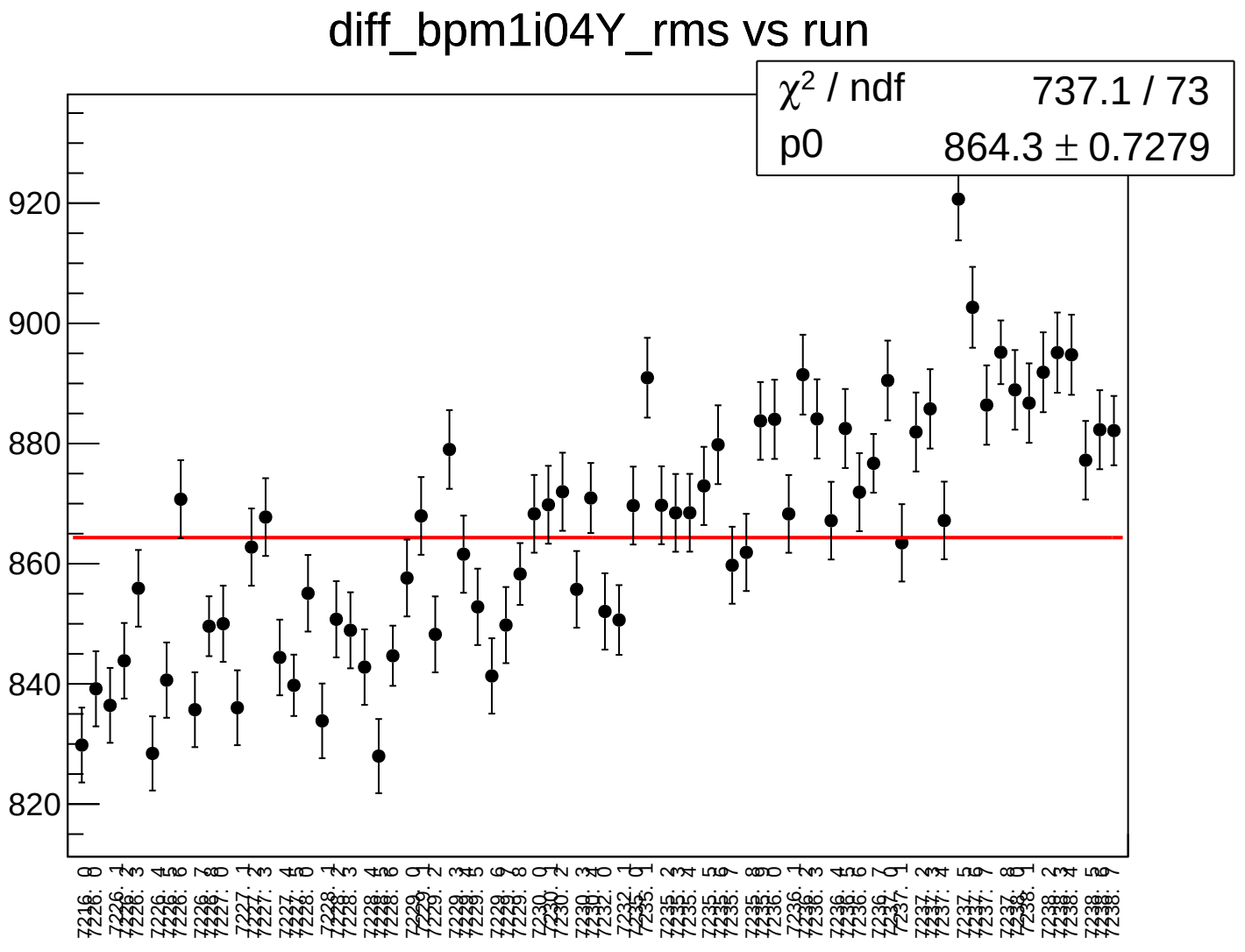

diff_bpm1i04X_mean vs run
χ^2 / ndf 77.67 / 73
p0 −15.5 ± 1.188
pull
Entries 74
Mean −22.08
Std Dev 28.71

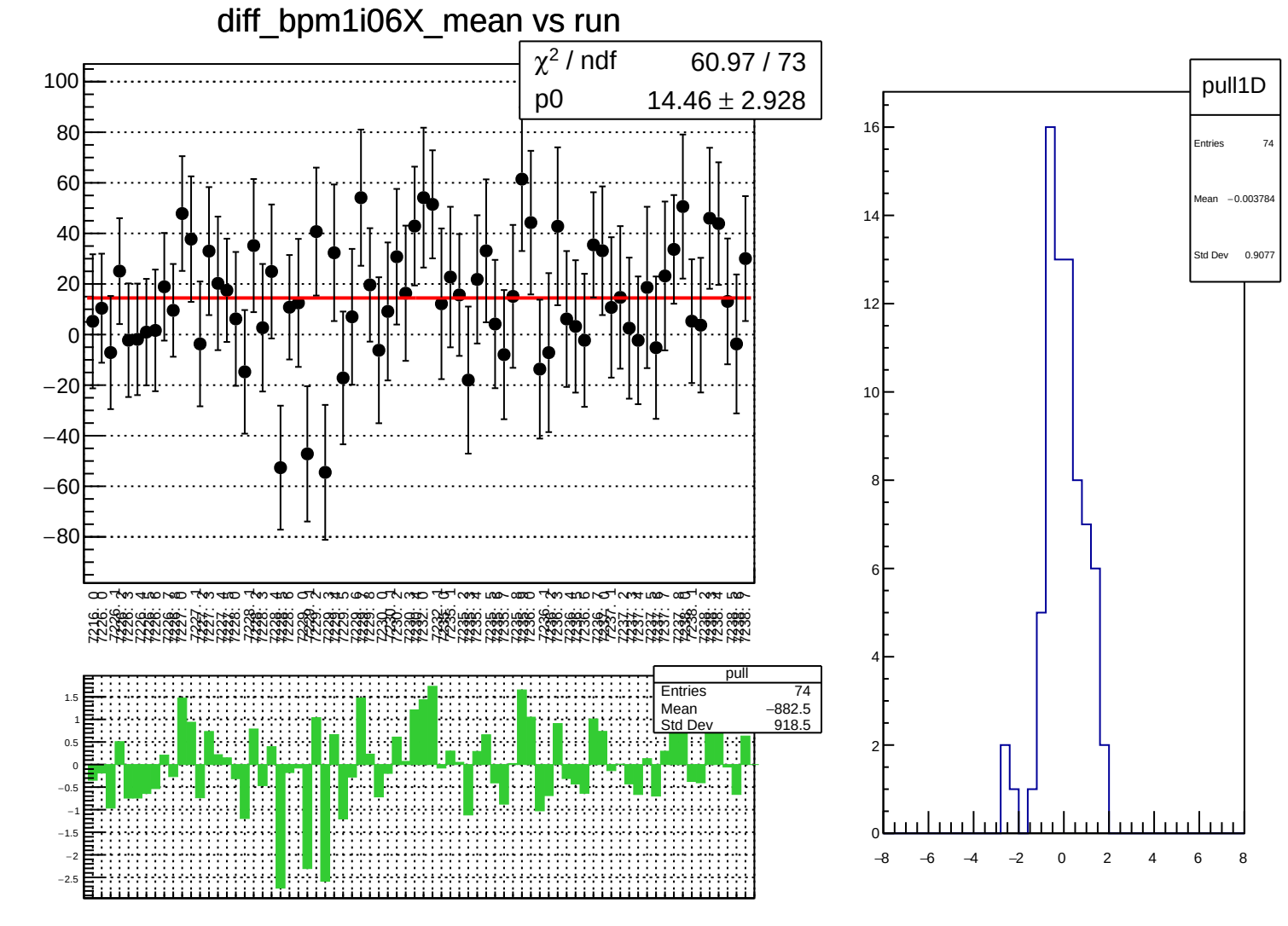

pull1D
Entries 74
Mean −0.01109
Std Dev 1.024

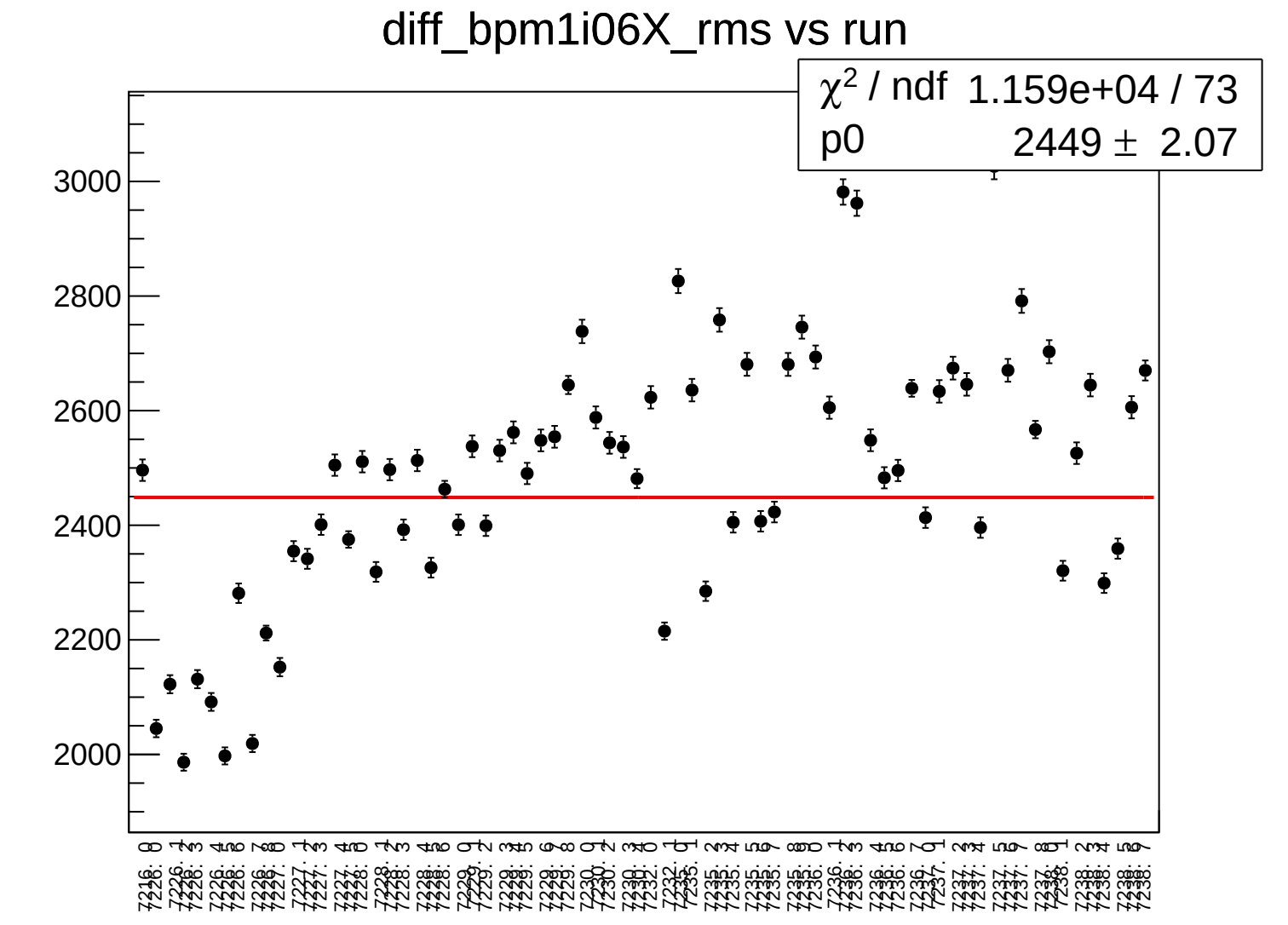

diff_bpm1i04X_rms vs run
χ² / ndf 695.1 / 73
p0 997.7 ± 0.8402
1060
1040
1020
1000
980
960
940
920
900
880
860

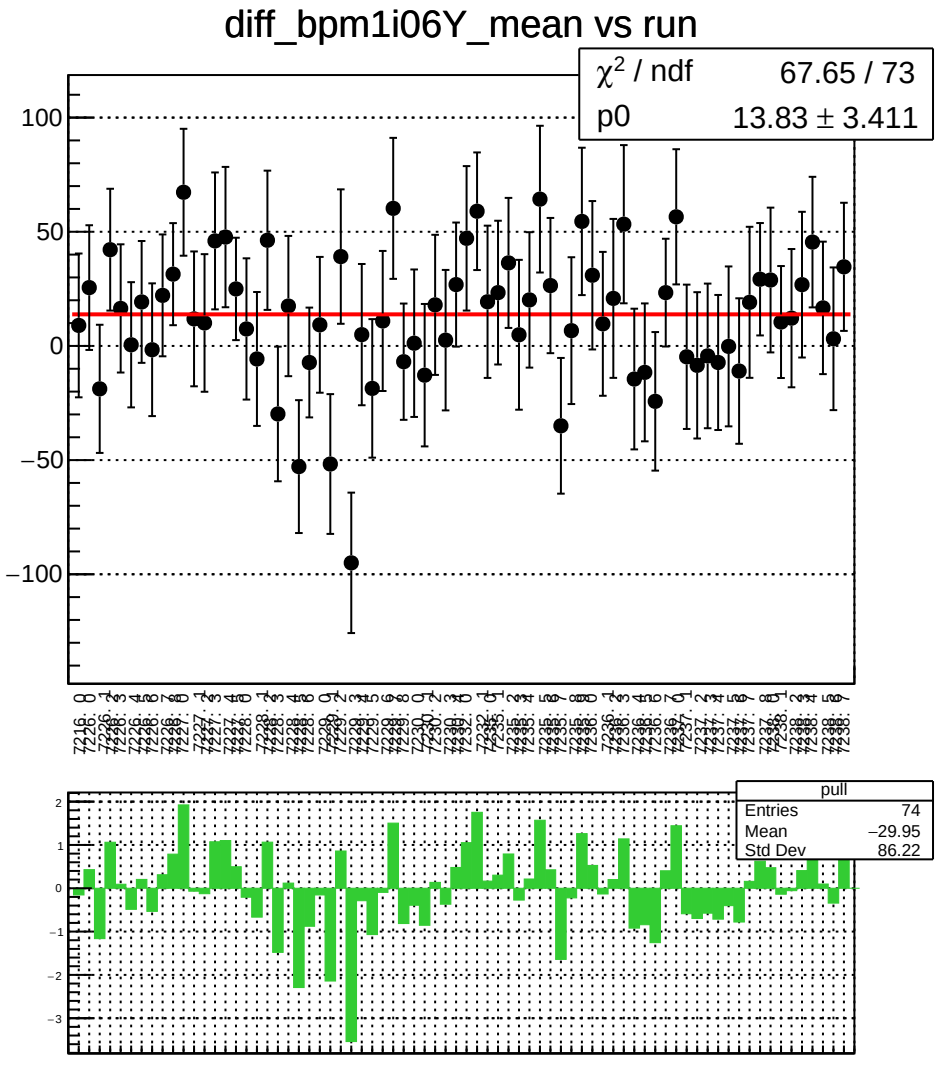

diff_bpm1i04Y_mean vs run
χ^2 / ndf 94.13 / 73
p0 28.85 ± 1.029
pull
Entries 74
Mean −434.9
Std Dev 473.1

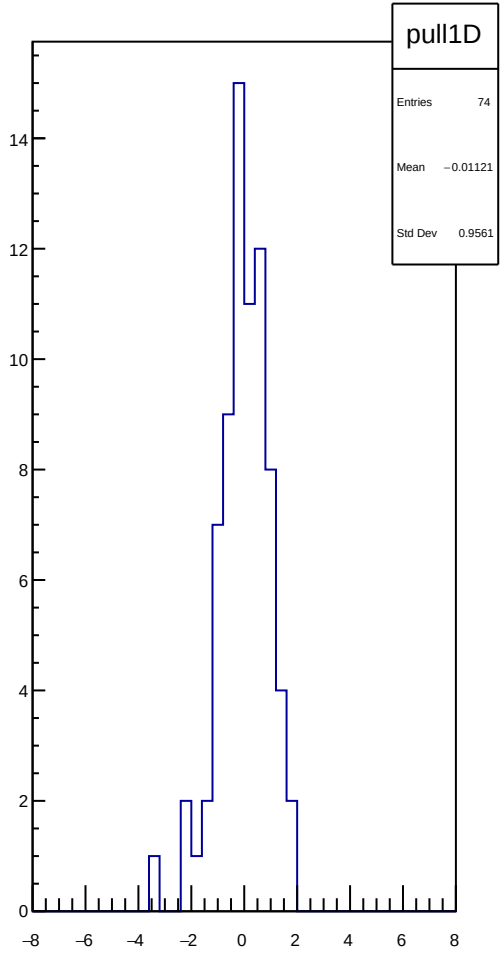

pull1D
Entries 74
Mean −0.01261
Std Dev 1.128

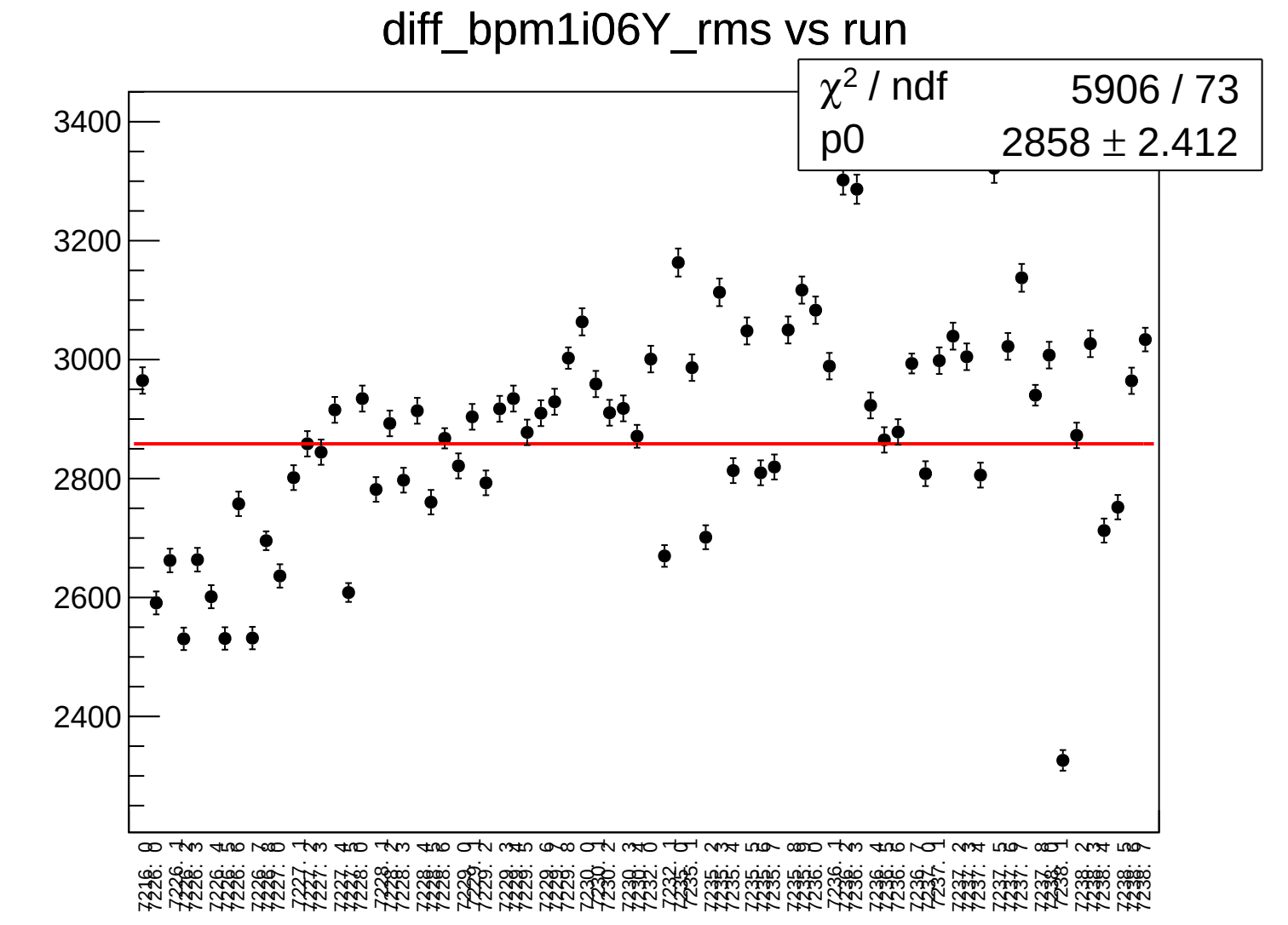

diff_bpm1i04Y_rms vs run
χ² / ndf 737.1 / 73
p0 864.3 ± 0.7279
920
900
880
860
840
820

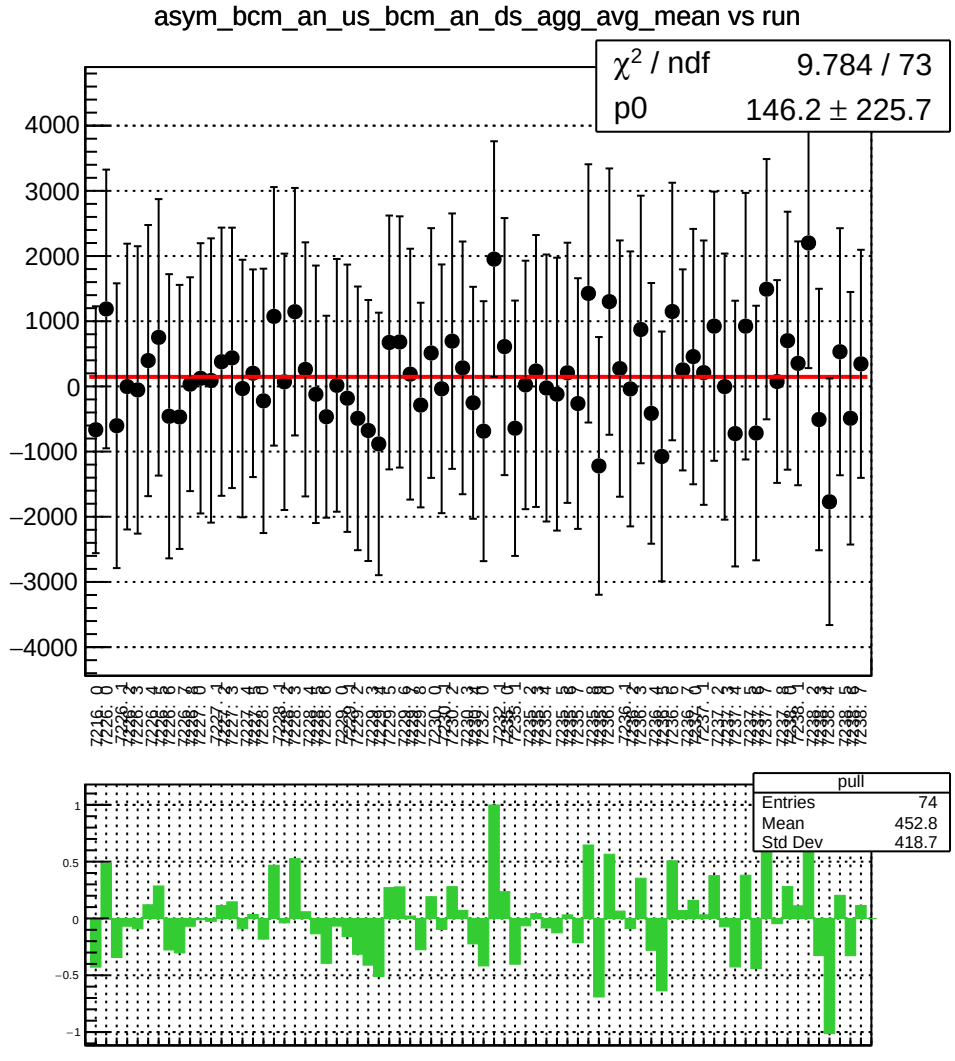

diff_bpm1i06X_mean vs run
χ² / ndf 60.97 / 73
p0 14.46 ± 2.928
pull
Entries 74
Mean −882.5
Std Dev 918.5
pull1D
Entries 74
Mean −0.003784
Std Dev 0.9077

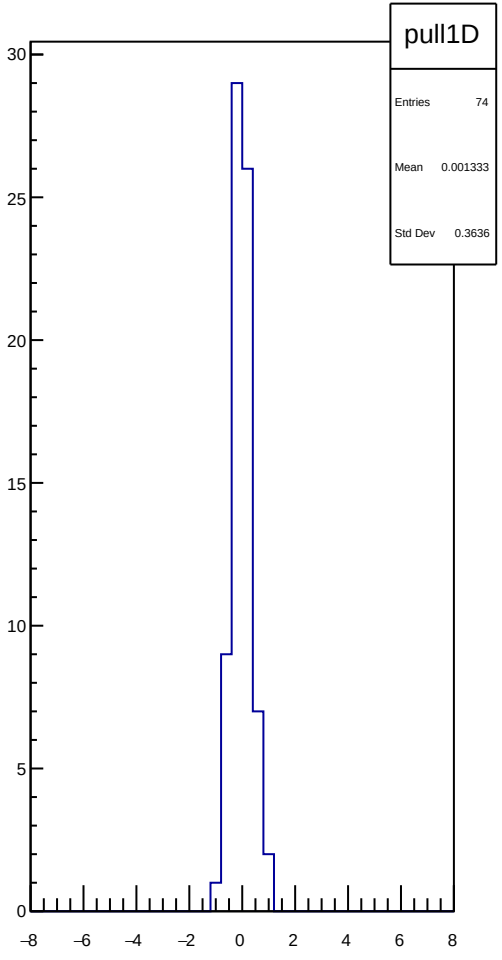

diff_bpm1i06X_rms vs run
χ² / ndf 1.159e+04 / 73
p0 2449 ± 2.07
3000
2800
2600
2400
2200
2000

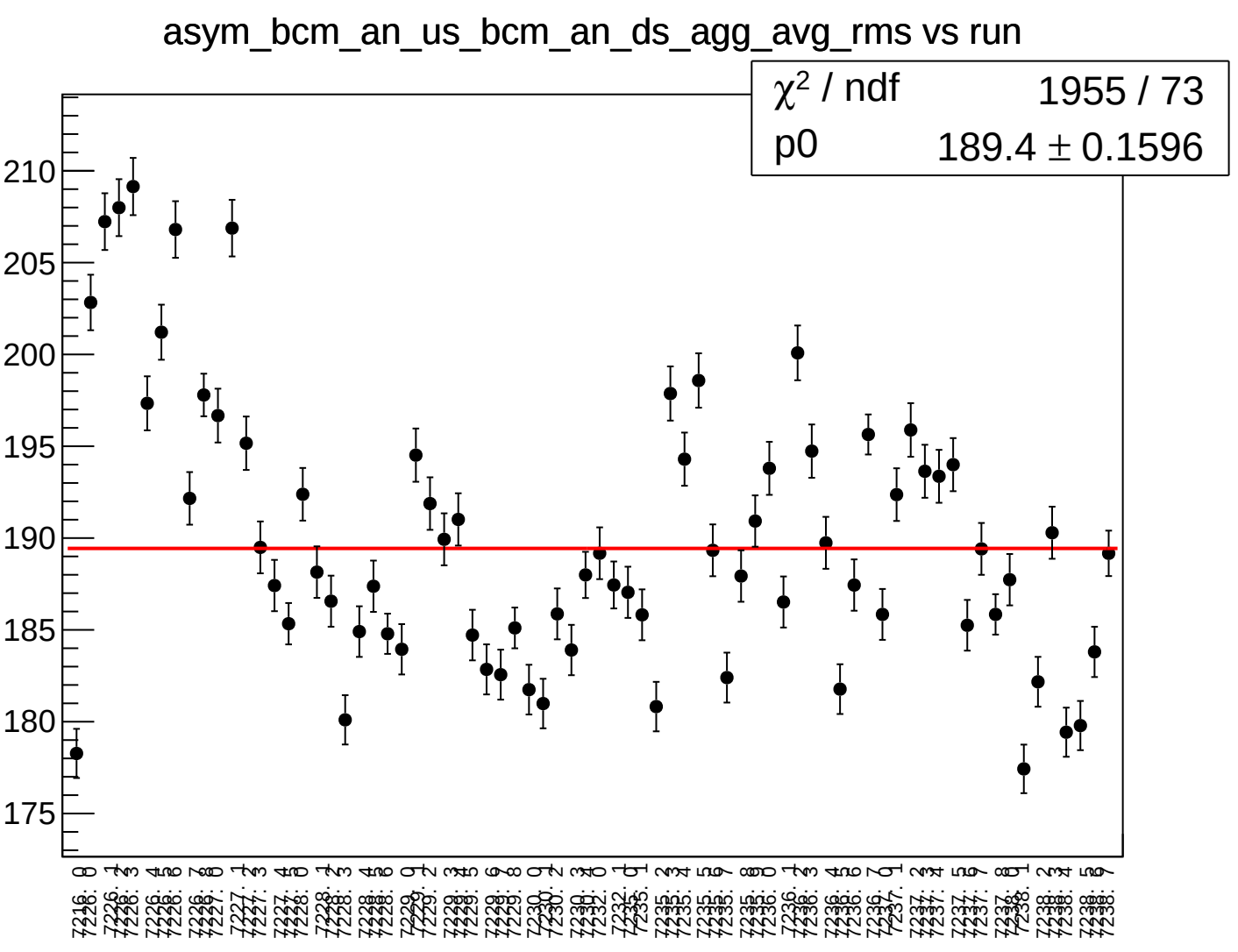

diff_bpm1i06Y_mean vs run
χ^2 / ndf 67.65 / 73
p0 13.83 ± 3.411
pull
Entries 74
Mean −29.95
Std Dev 86.22

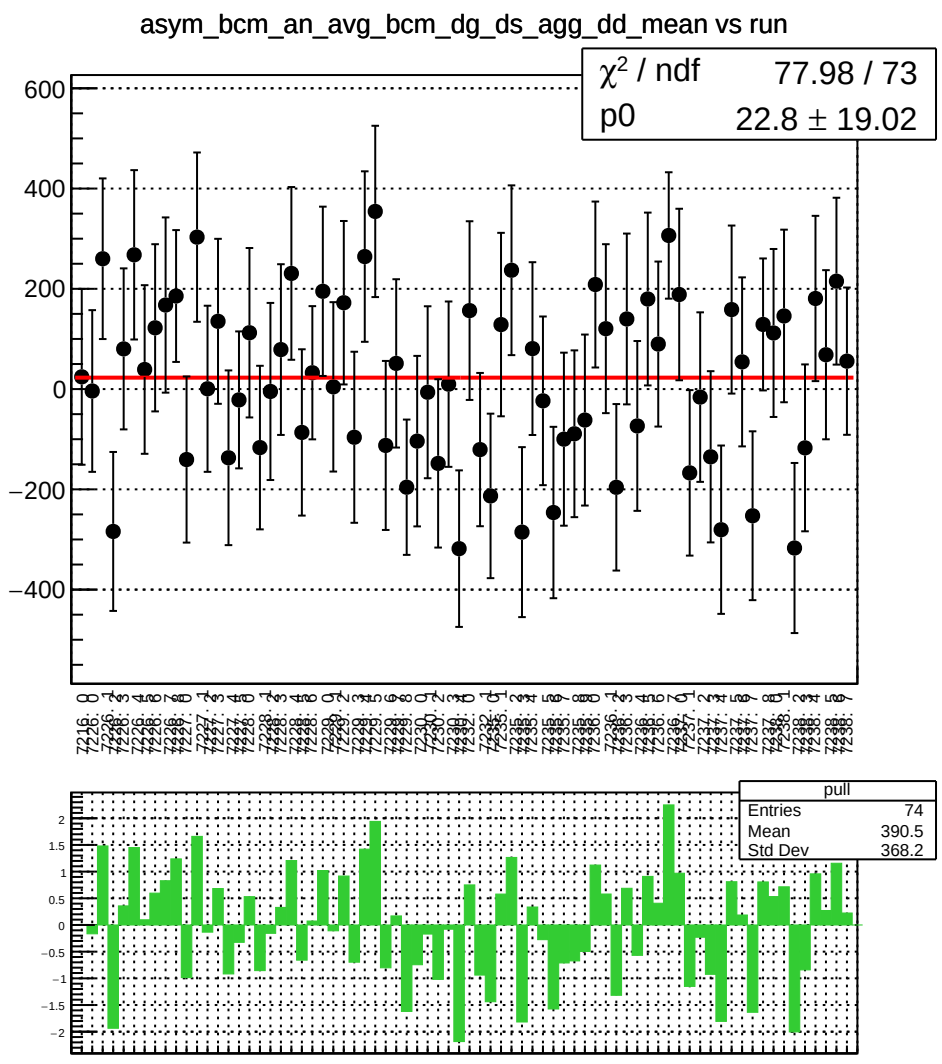

pull1D
Entries 74
Mean −0.01121
Std Dev 0.9561

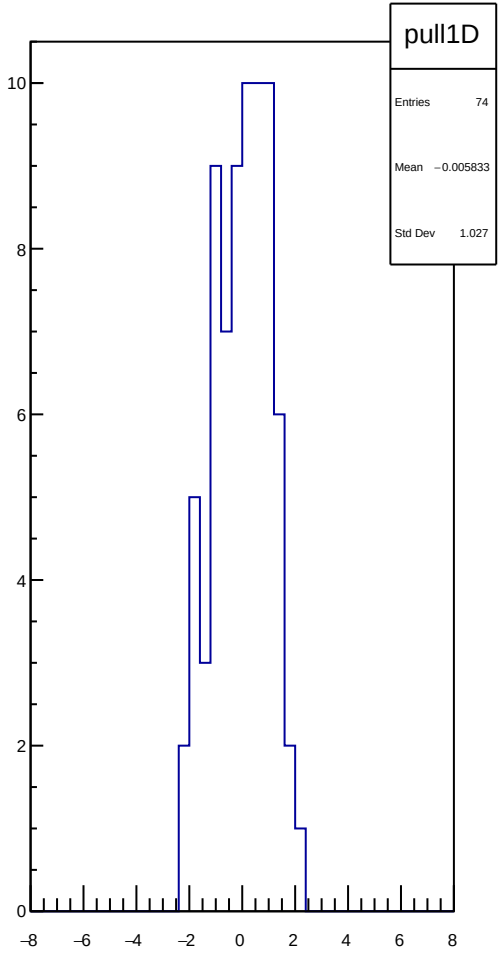

diff_bpm1i06Y_rms vs run
χ² / ndf 5906 / 73
p0 2858 ± 2.412
3400
3200
3000
2800
2600
2400

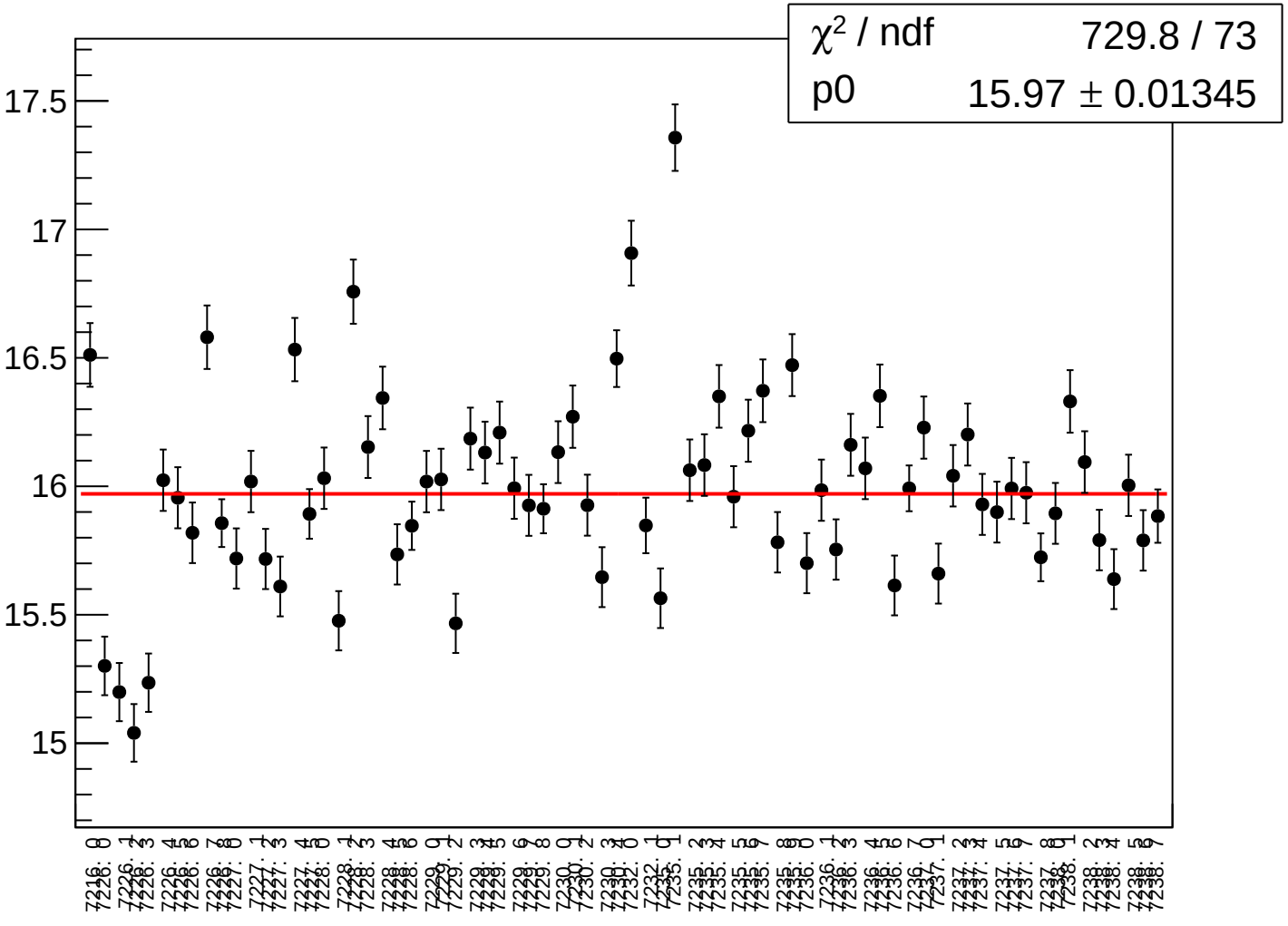

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.784 / 73
p0 146.2 ± 225.7
pull
Entries 74
Mean 452.8
Std Dev 418.7

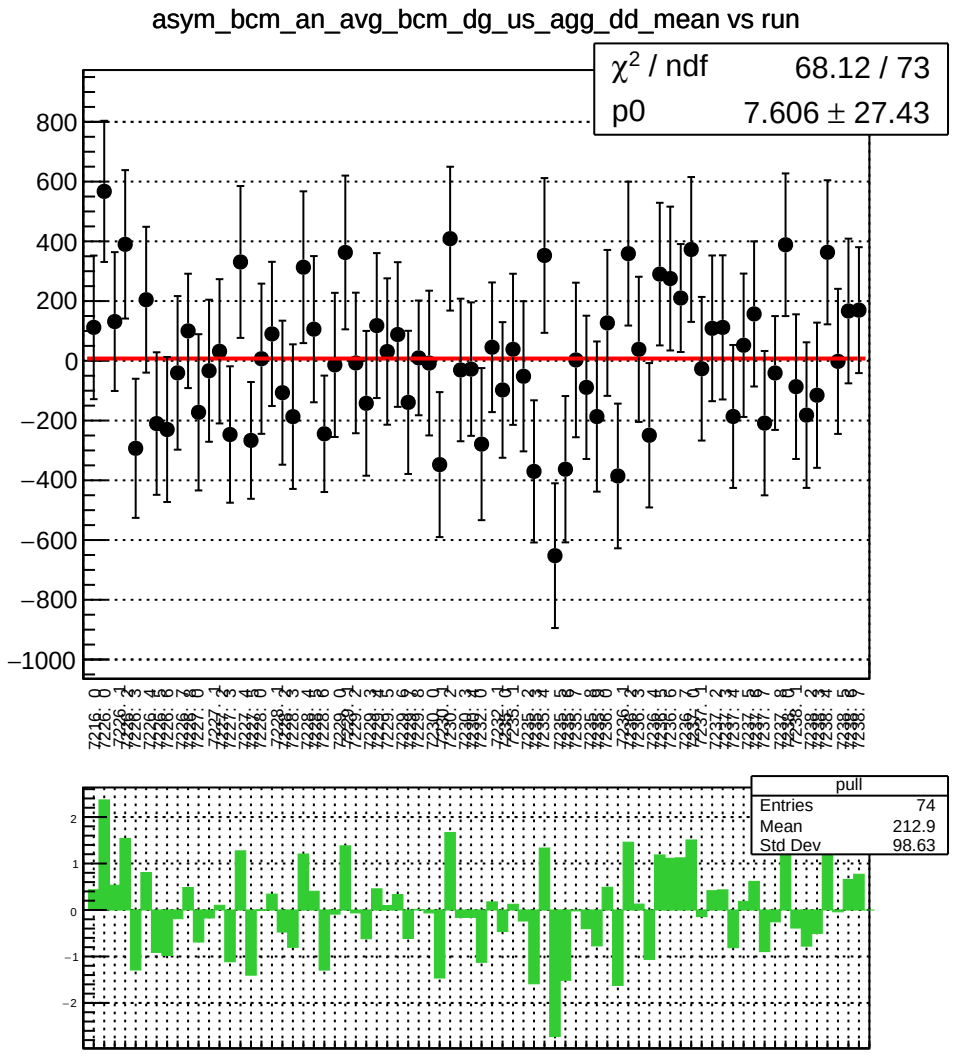

pull1D
Entries 74
Mean 0.001333
Std Dev 0.3636

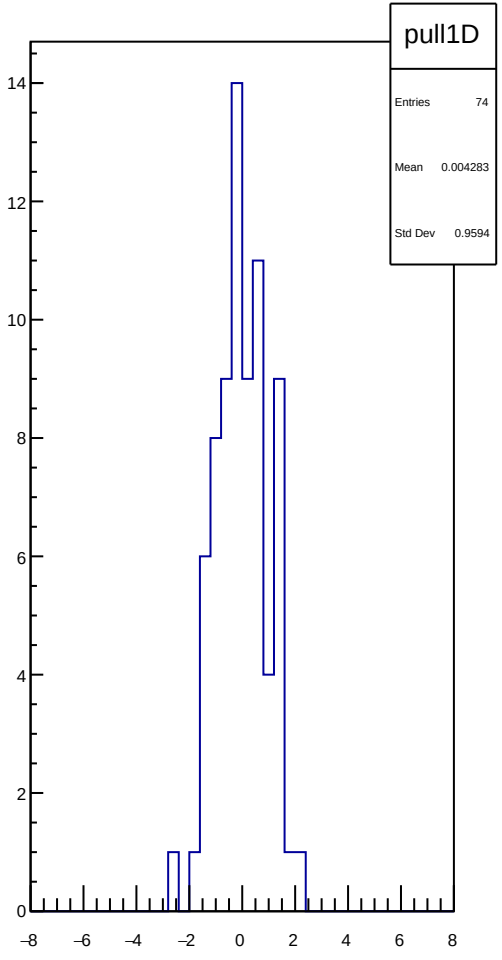

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1955 / 73
p0 189.4 ± 0.1596
210
205
200
195
190
185
180
175

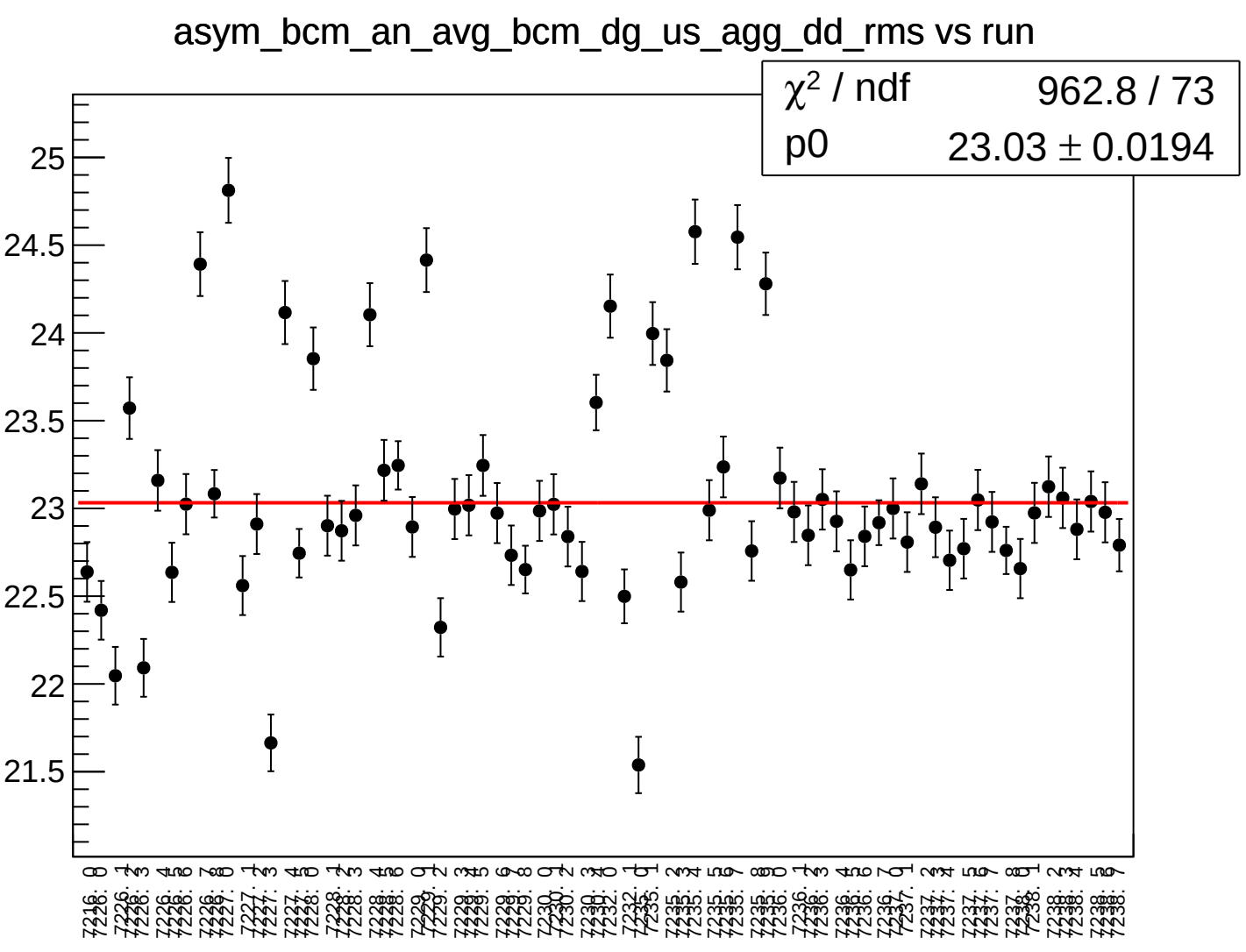

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.98 / 73
p0 22.8 ± 19.02
pull
Entries 74
Mean 390.5
Std Dev 368.2

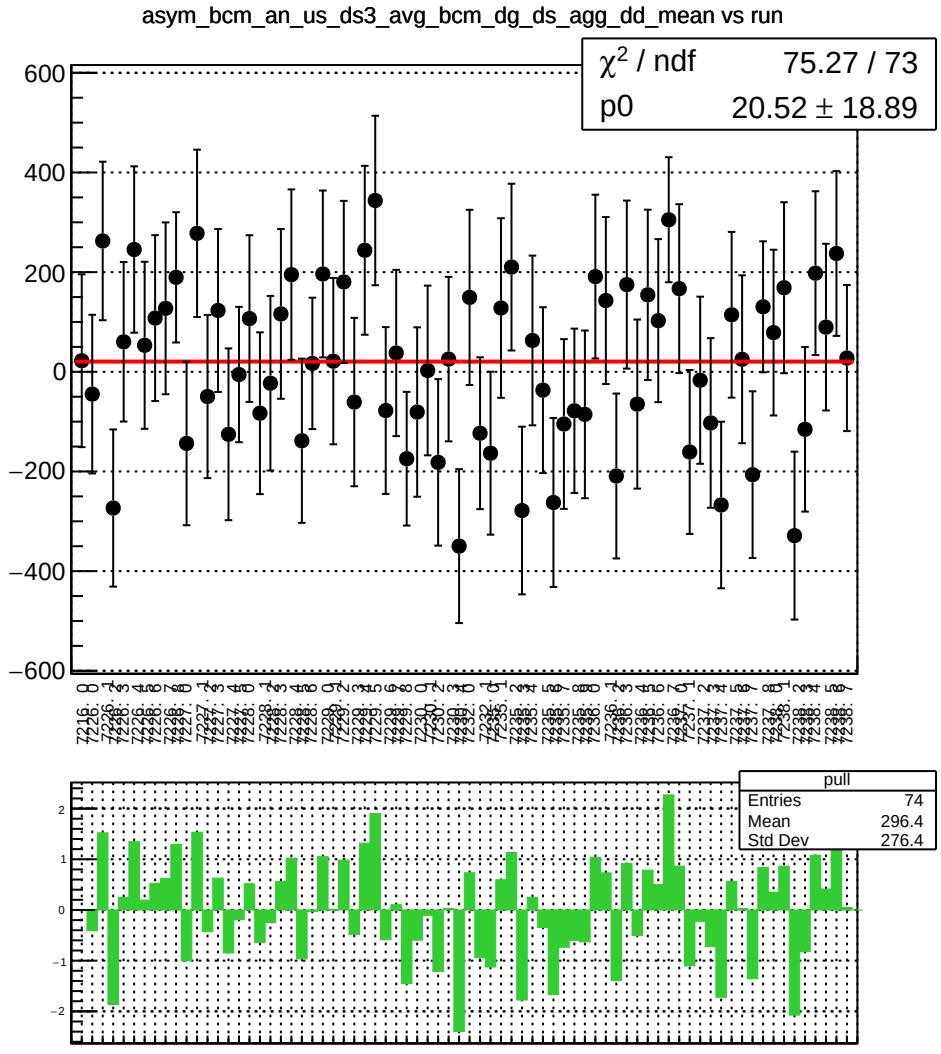

pull1D
Entries 74
Mean −0.005833
Std Dev 1.027

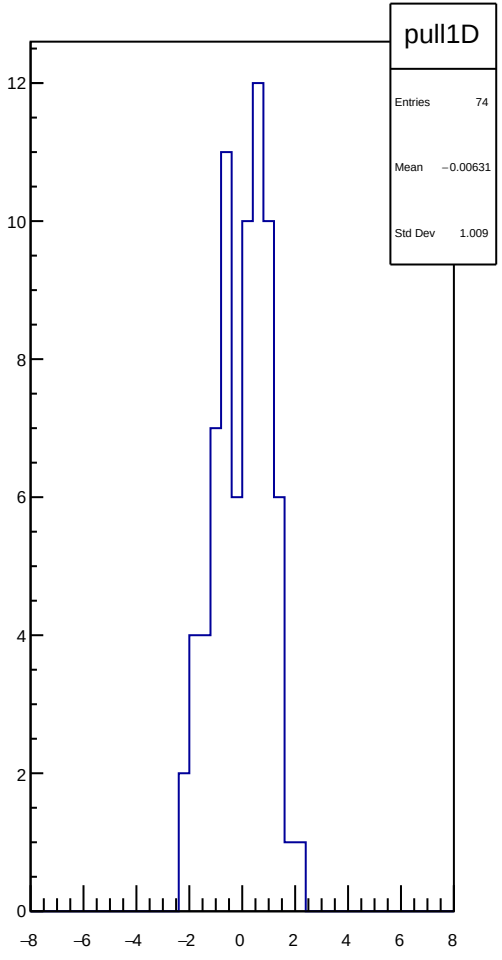

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 729.8 / 73
p0 15.97 ± 0.01345
17.5
17
16.5
16
15.5
15

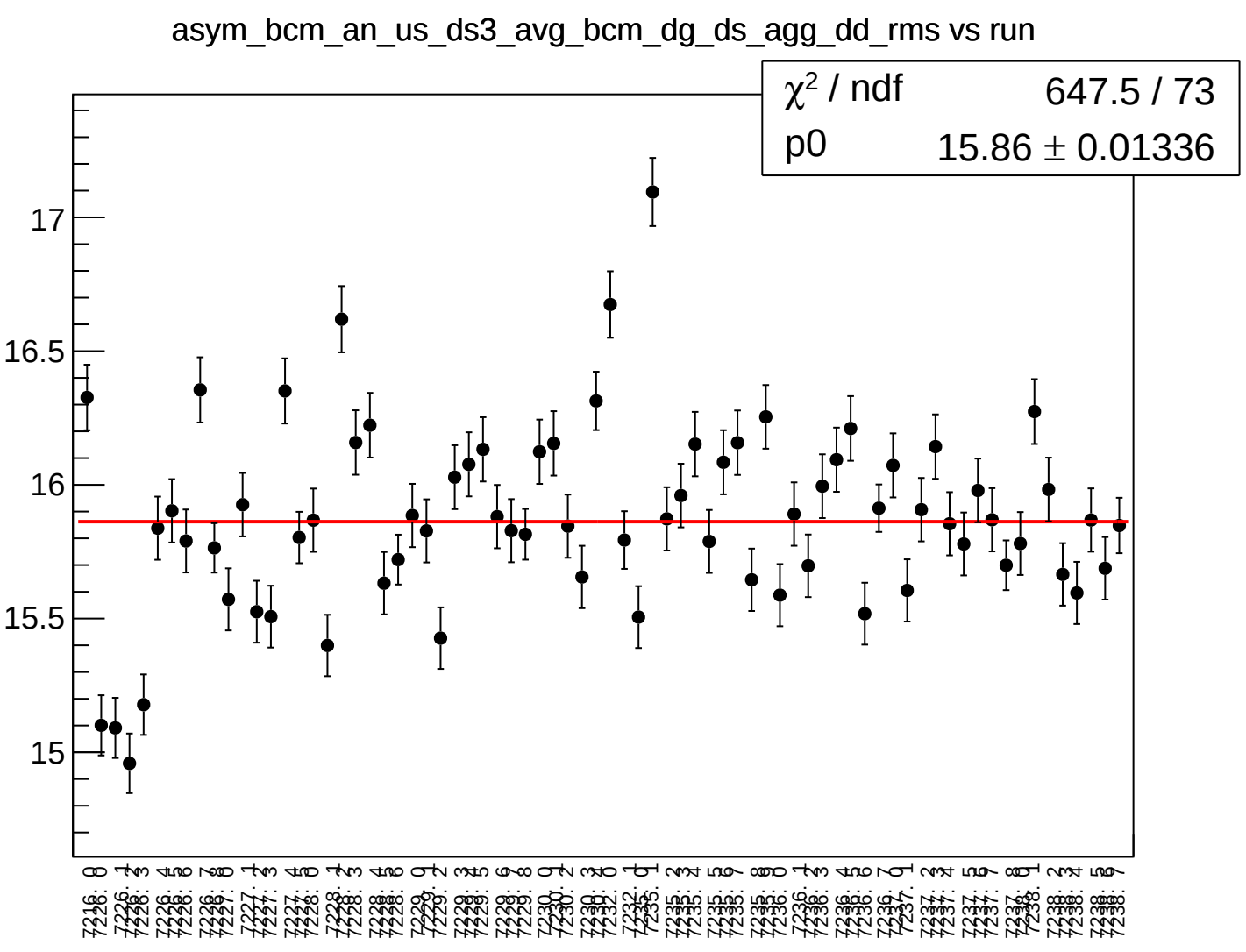

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.12 / 73
p0 7.606 ± 27.43
pull
Entries 74
Mean 212.9
Std Dev 98.63

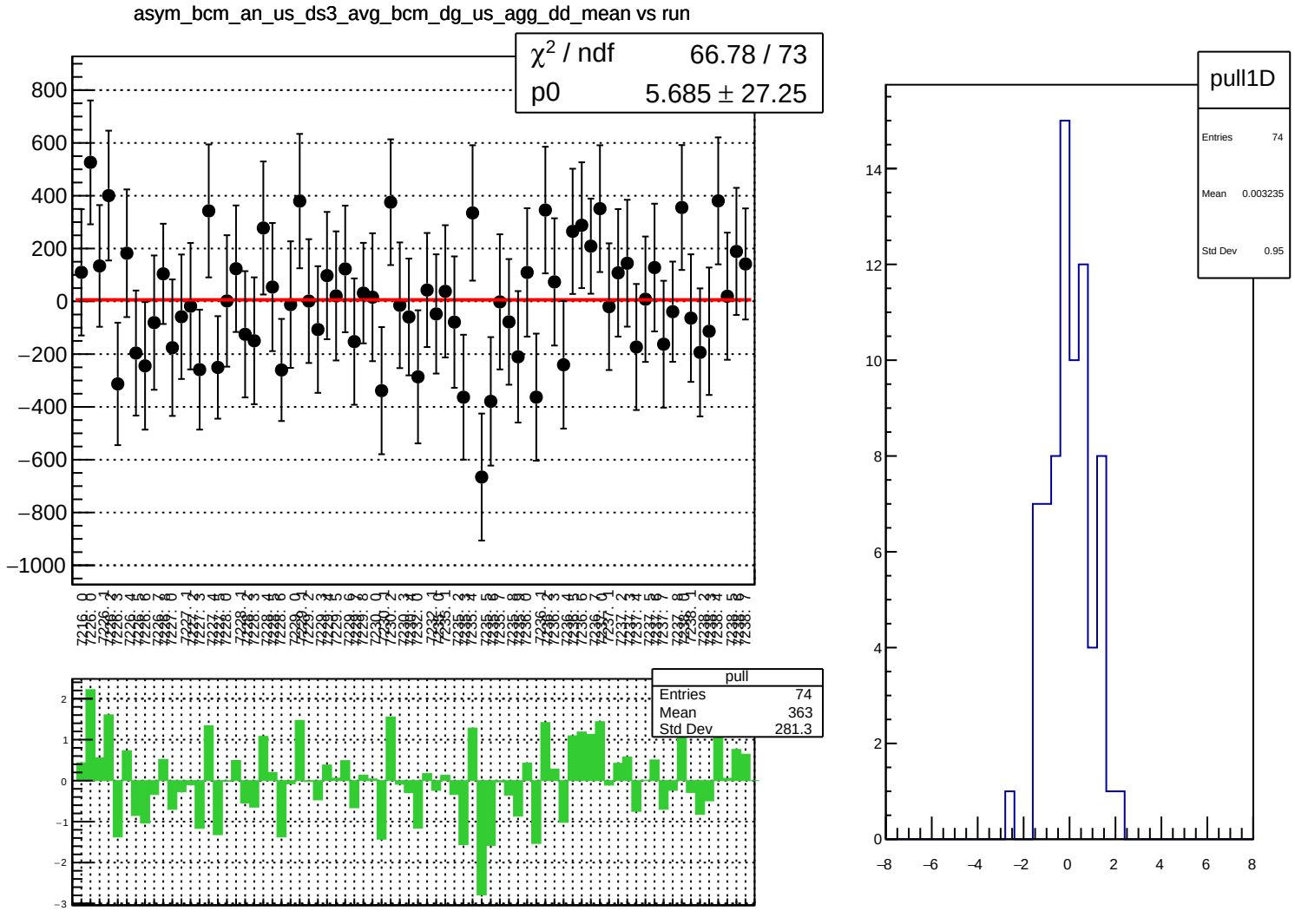

pull1D
Entries 74
Mean 0.004283
Std Dev 0.9594

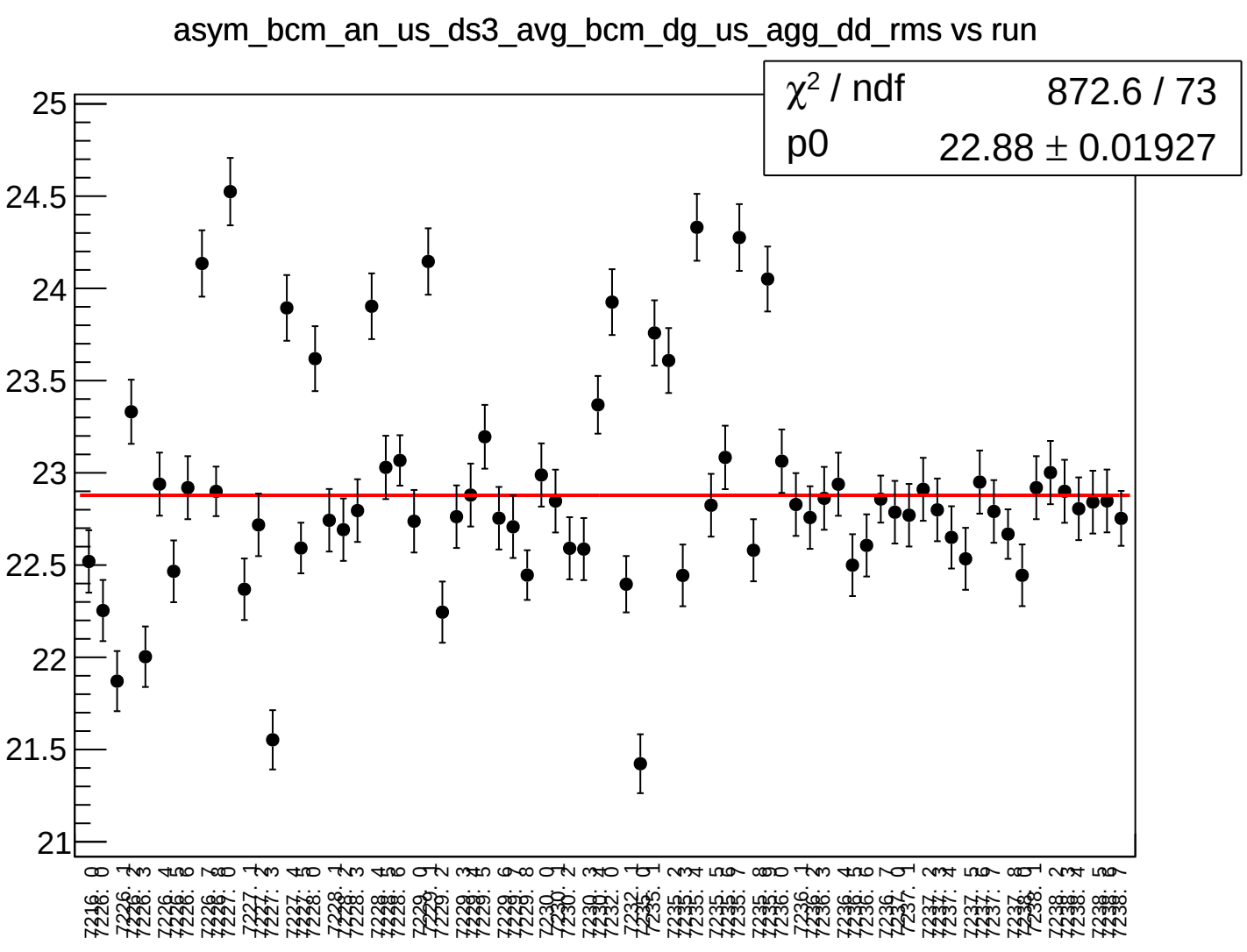

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 962.8 / 73
p0 23.03 ± 0.0194
25
24.5
24
23.5
23
22.5
22
21.5

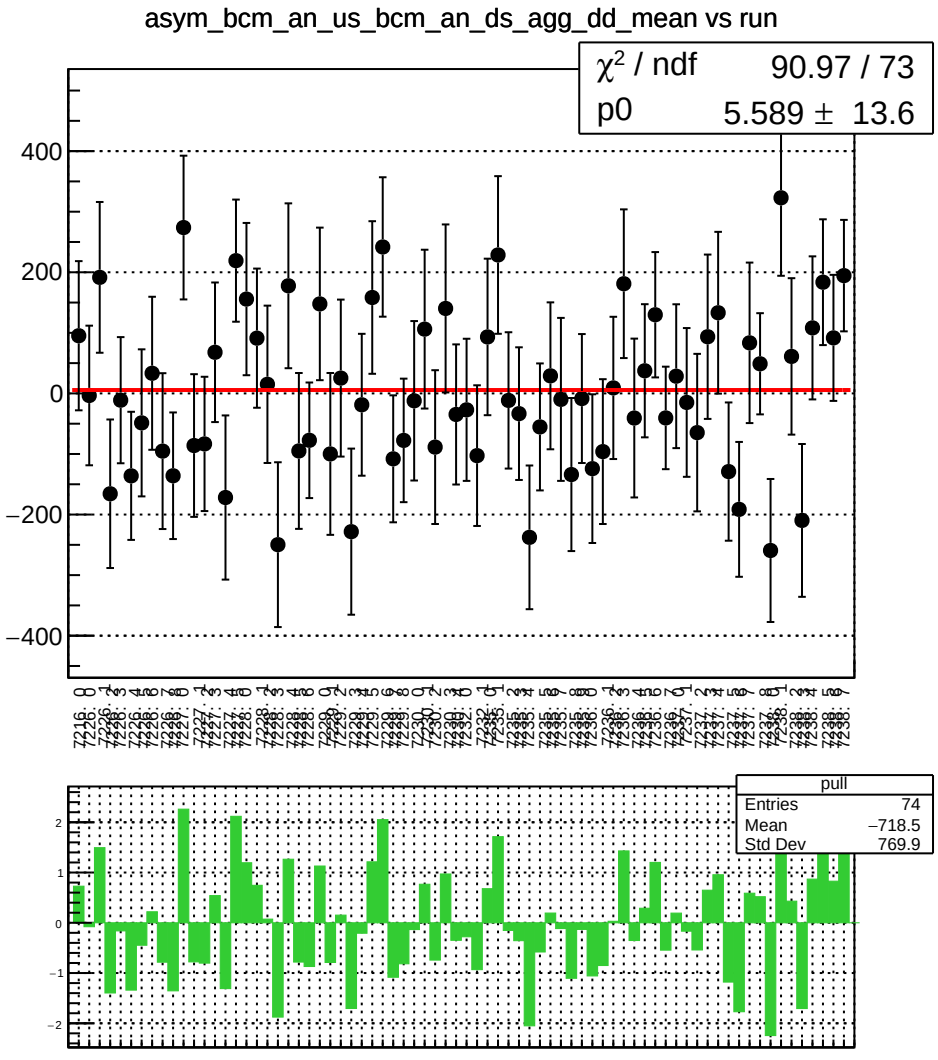

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.27 / 73
p0 20.52 ± 18.89
pull
Entries 74
Mean 296.4
Std Dev 276.4

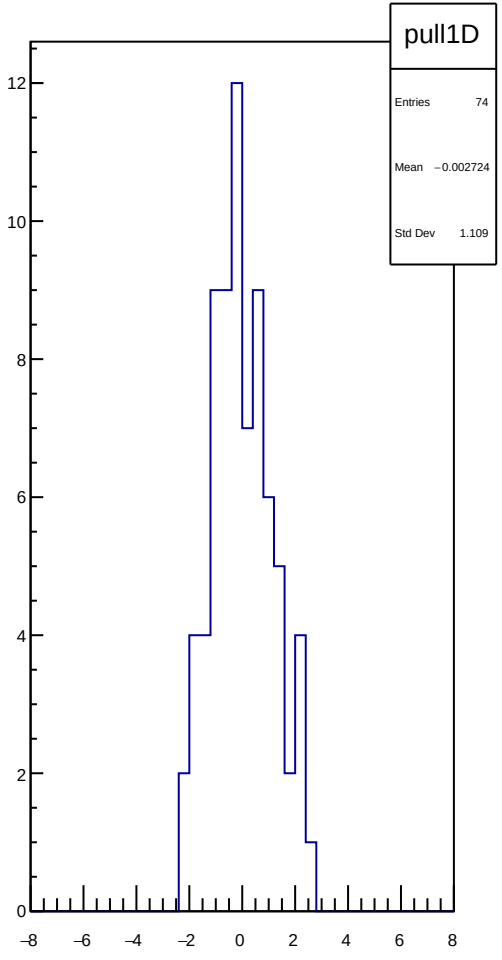

pull1D
Entries 74
Mean −0.00631
Std Dev 1.009

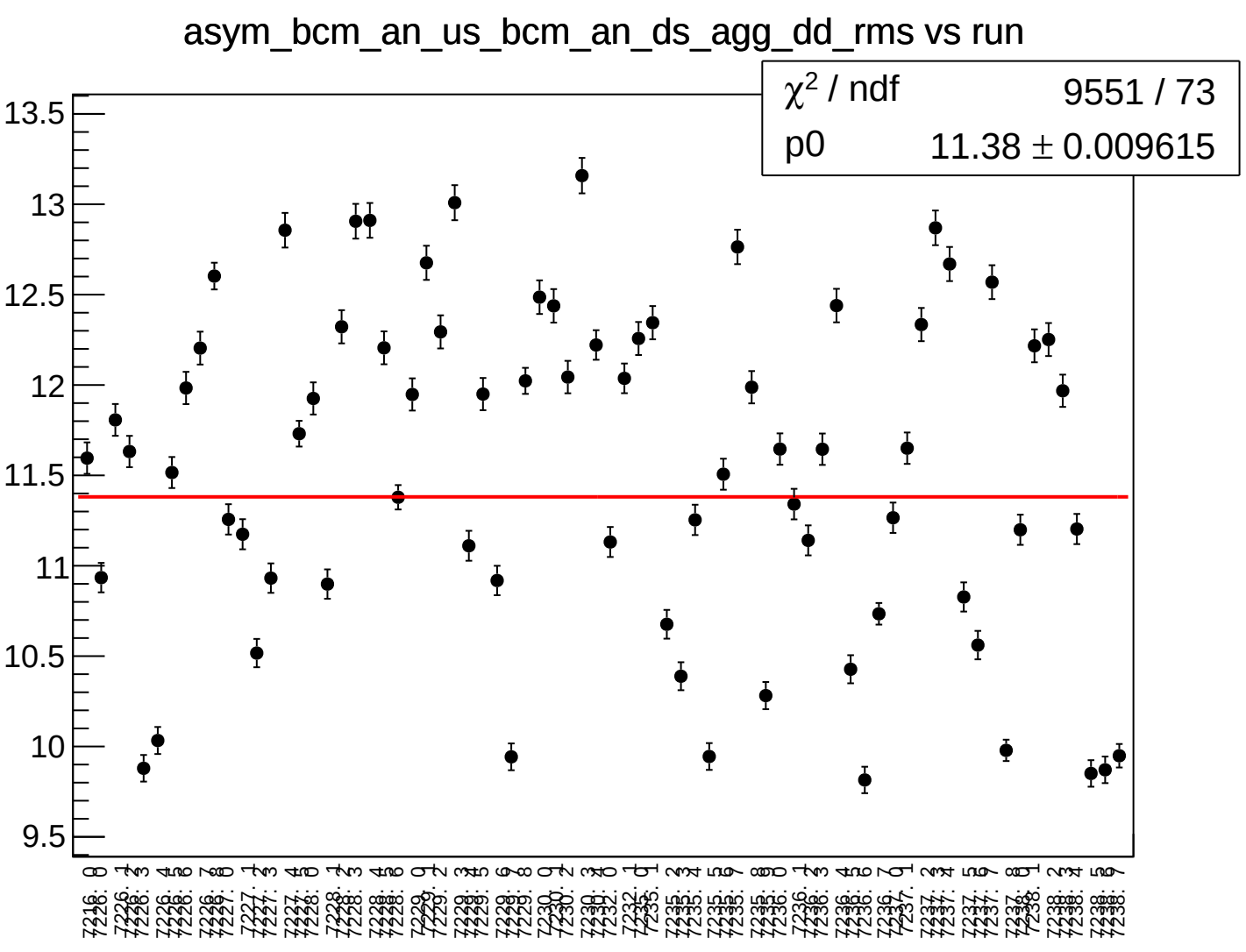

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 647.5 / 73
p0 15.86 ± 0.01336
17
16.5
16
15.5
15

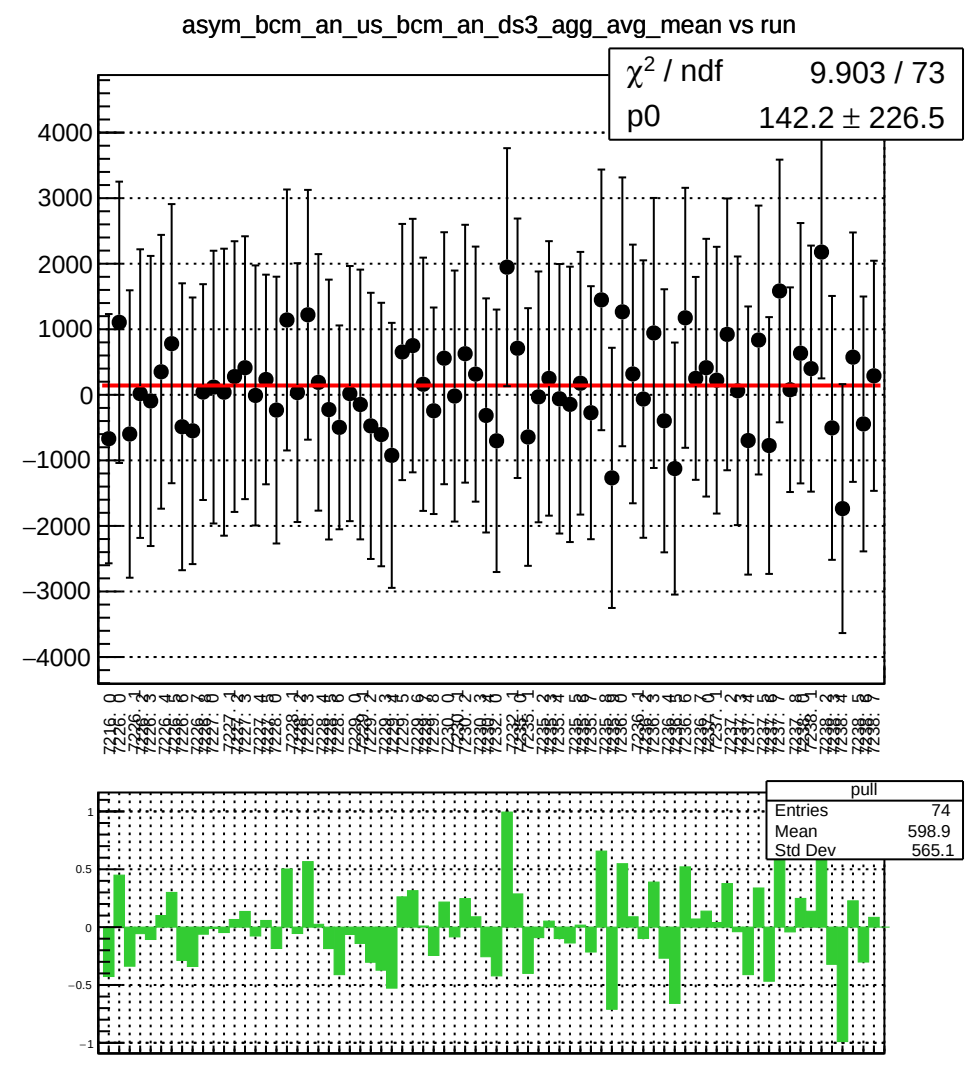

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 66.78 / 73
p0 5.685 ± 27.25
pull
Entries 74
Mean 363
Std Dev 281.3
pull1D
Entries 74
Mean 0.003235
Std Dev 0.95

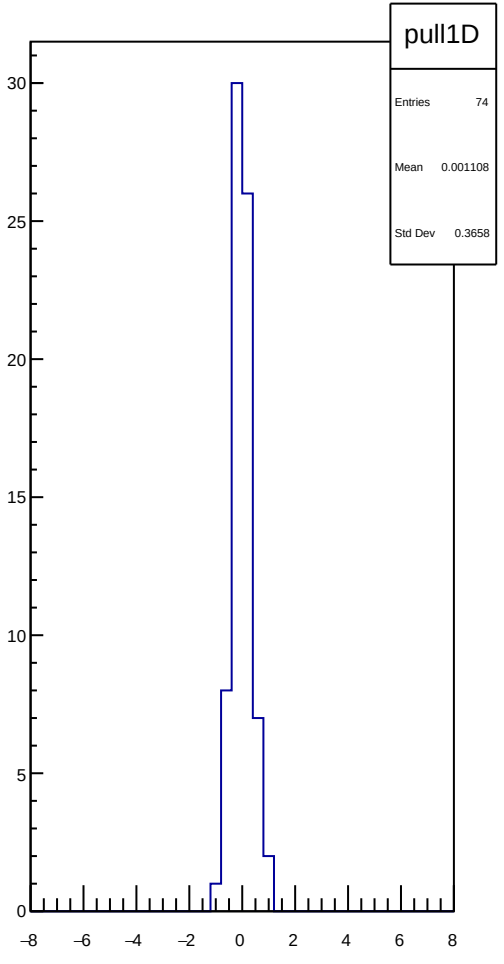

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 872.6 / 73
p0 22.88 ± 0.01927
25
24.5
24
23.5
23
22.5
22
21.5
21

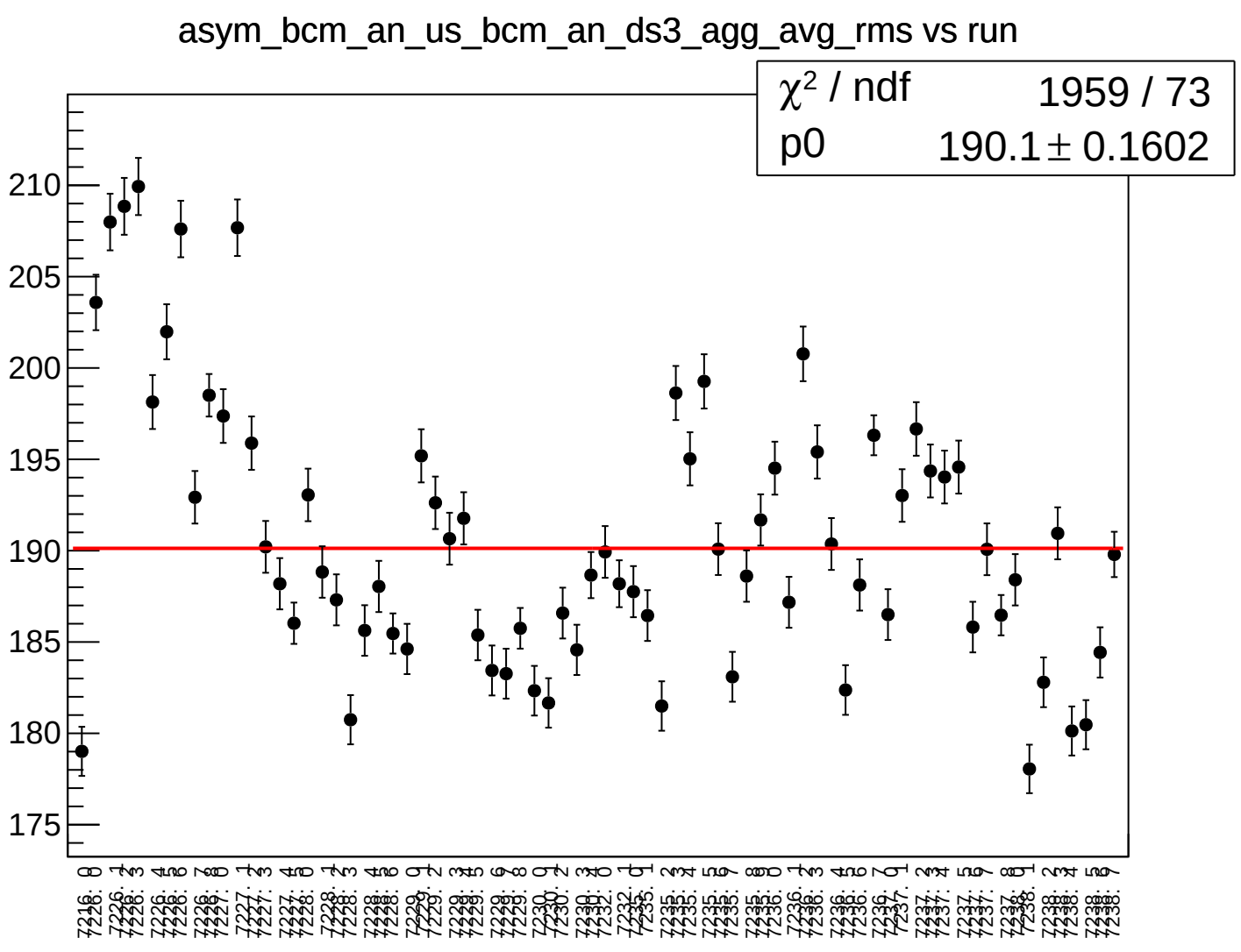

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.97 / 73
p0 5.589 ± 13.6
pull
Entries 74
Mean −718.5
Std Dev 769.9

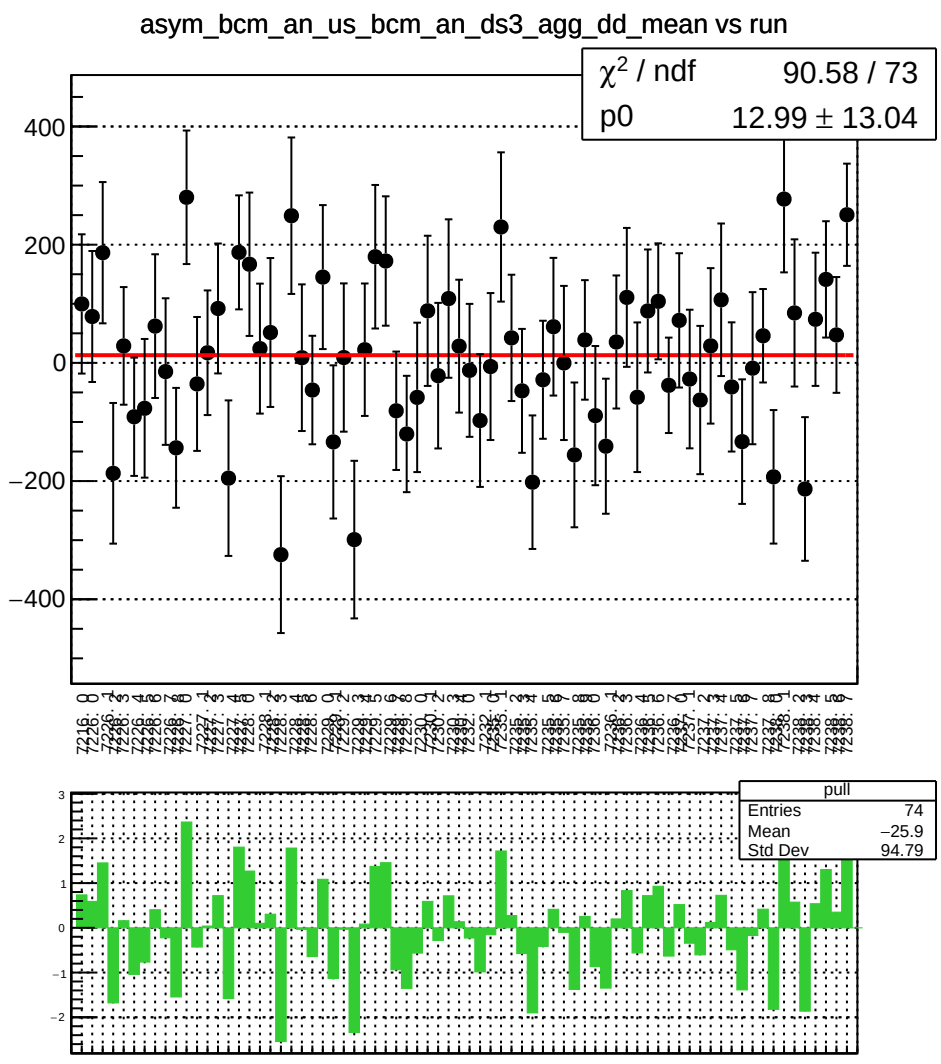

pull1D
Entries 74
Mean −0.002724
Std Dev 1.109

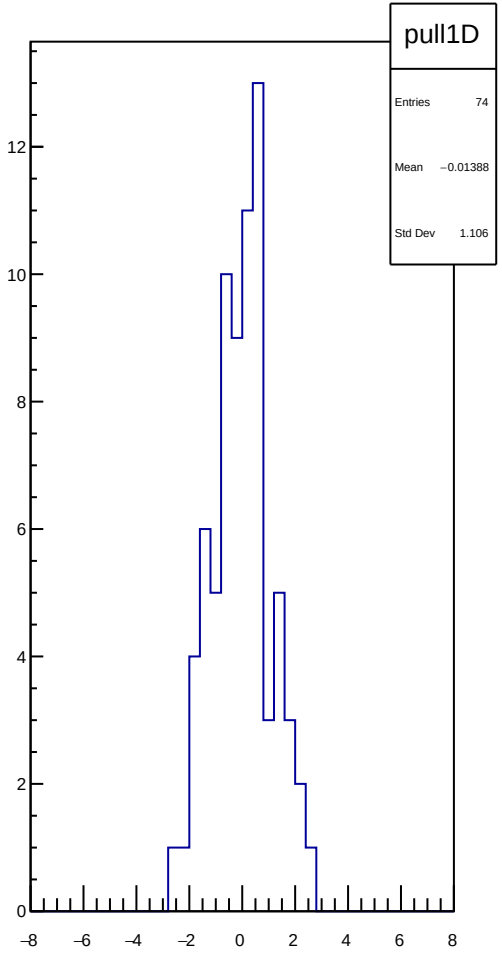

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9551 / 73
p0 11.38 ± 0.009615
13.5
13
12.5
12
11.5
11
10.5
10
9.5

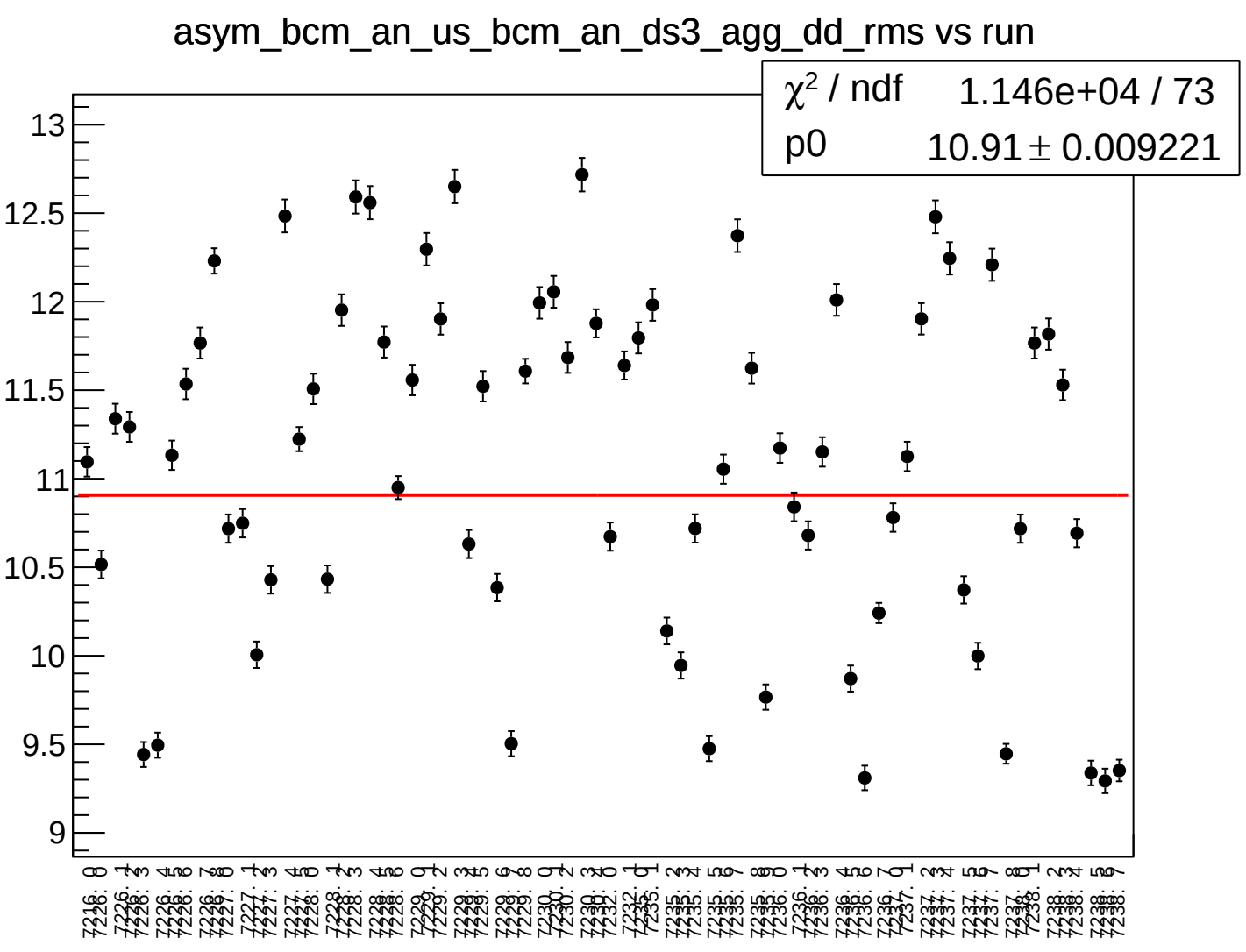

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 9.903 / 73
p0 142.2 ± 226.5
pull
Entries 74
Mean 598.9
Std Dev 565.1

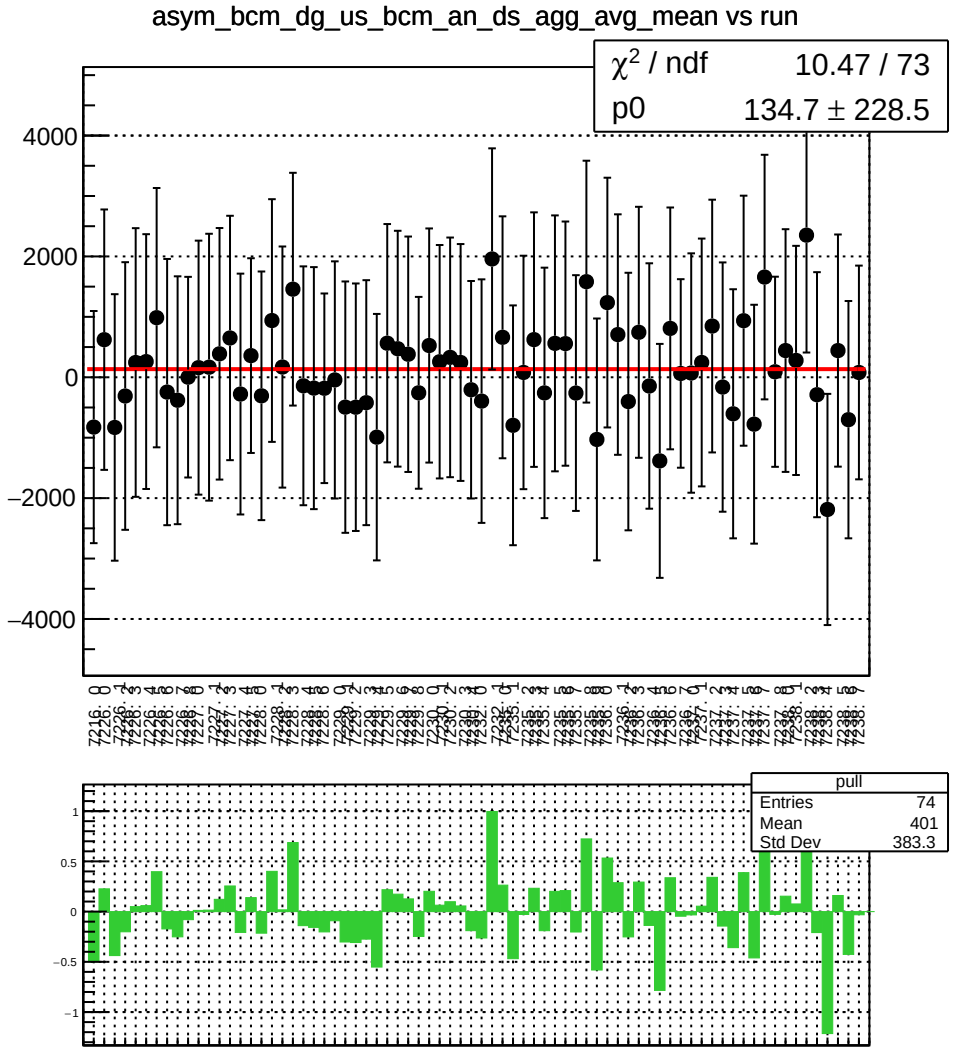

pull1D
Entries 74
Mean 0.001108
Std Dev 0.3658

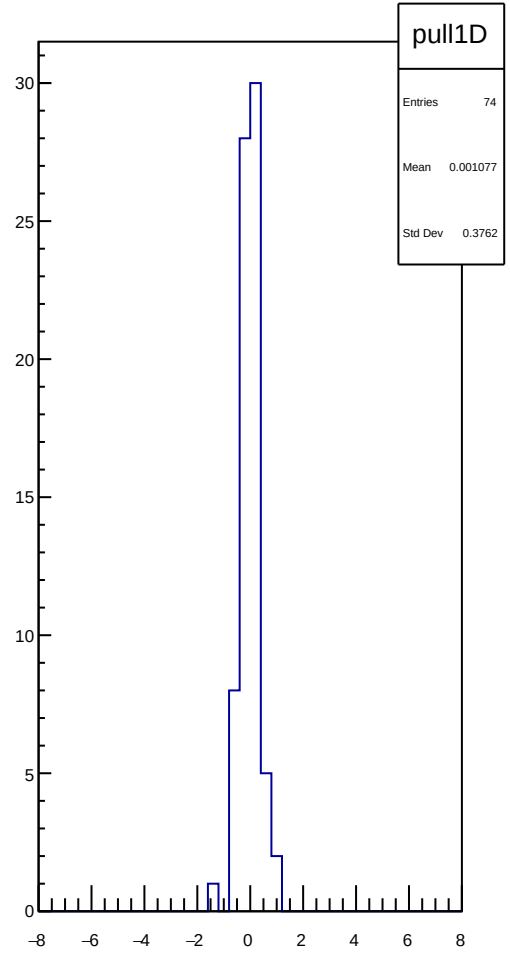

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1959 / 73
p0 190.1 ± 0.1602
210
205
200
195
190
185
180
175

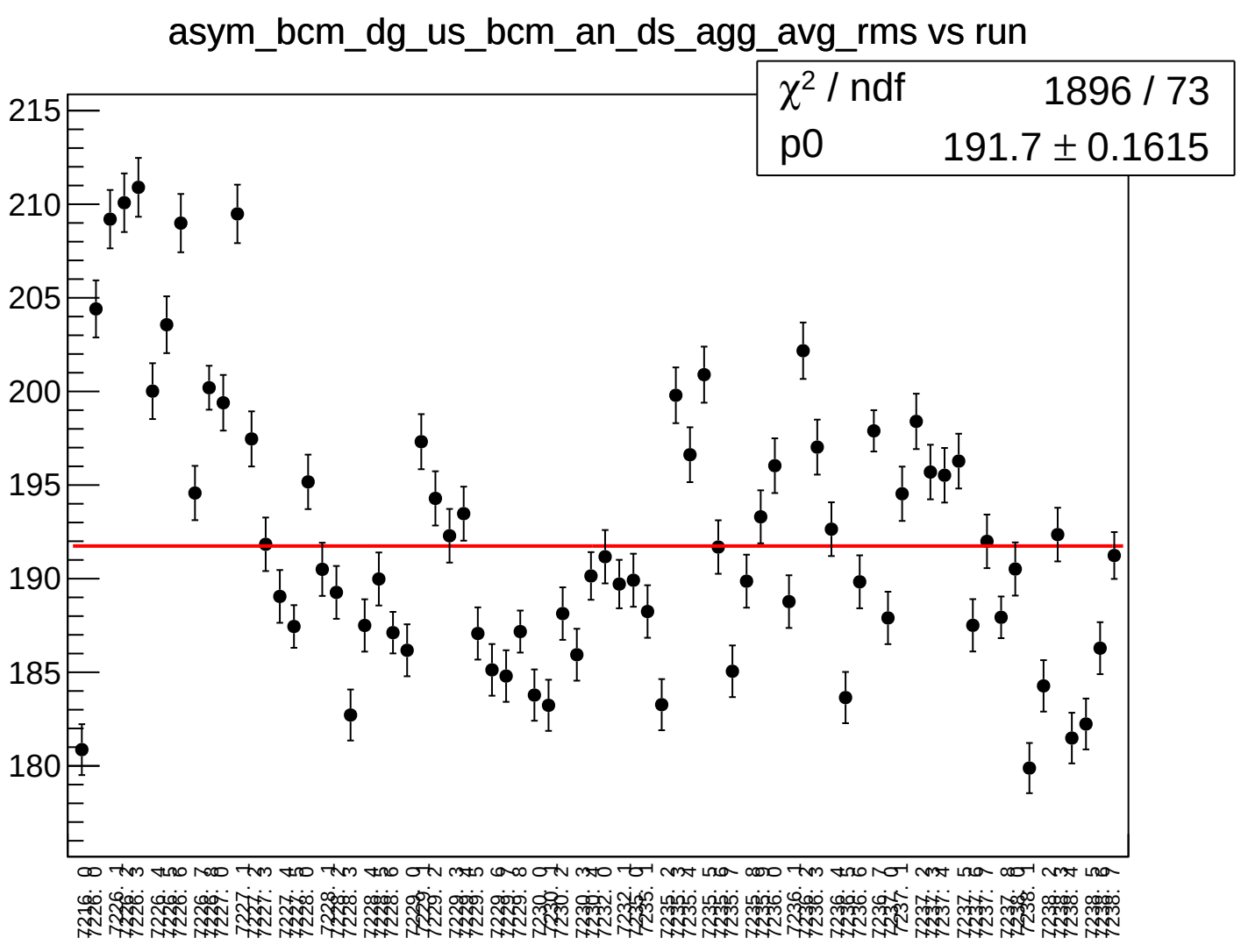

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 90.58 / 73
p0 12.99 ± 13.04
400
200
0
−200
−400
pull
Entries 74
Mean −25.9
Std Dev 94.79
3
2
1
0
−1
−2

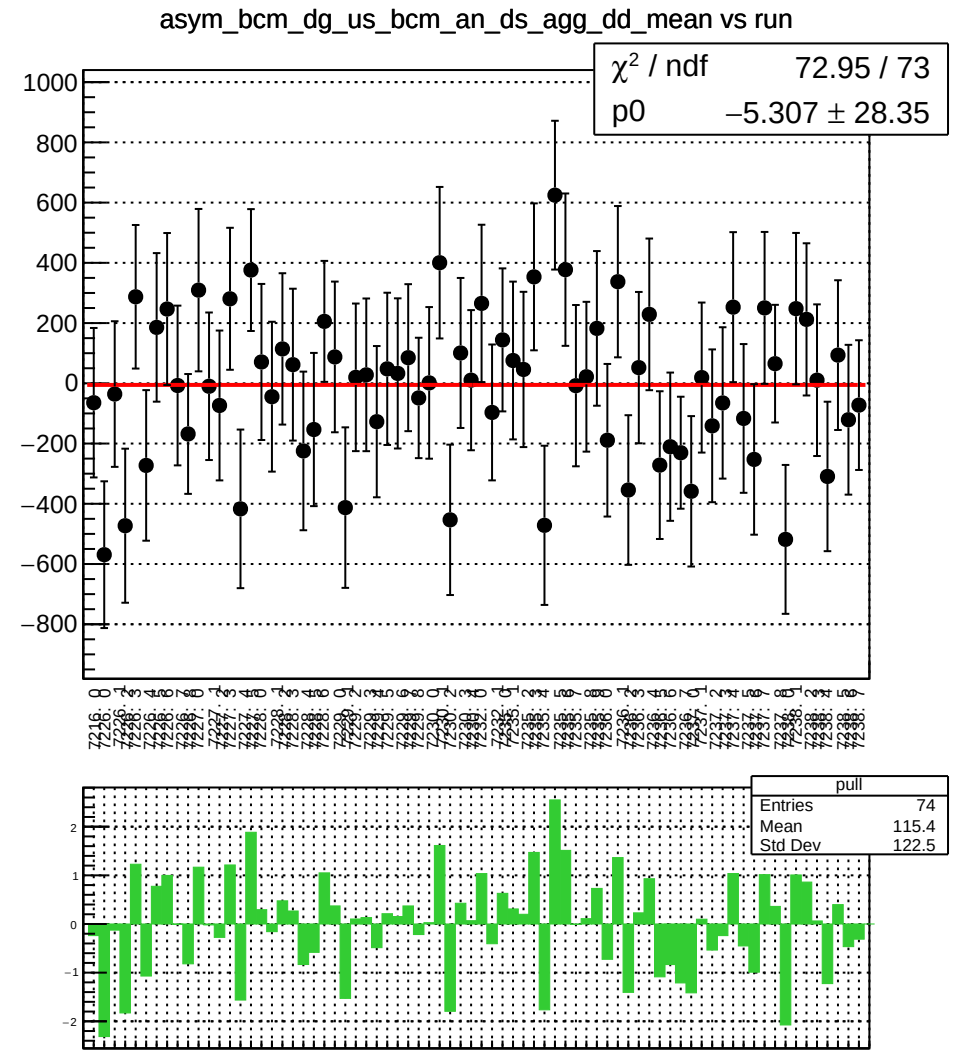

pull1D
Entries 74
Mean −0.01388
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

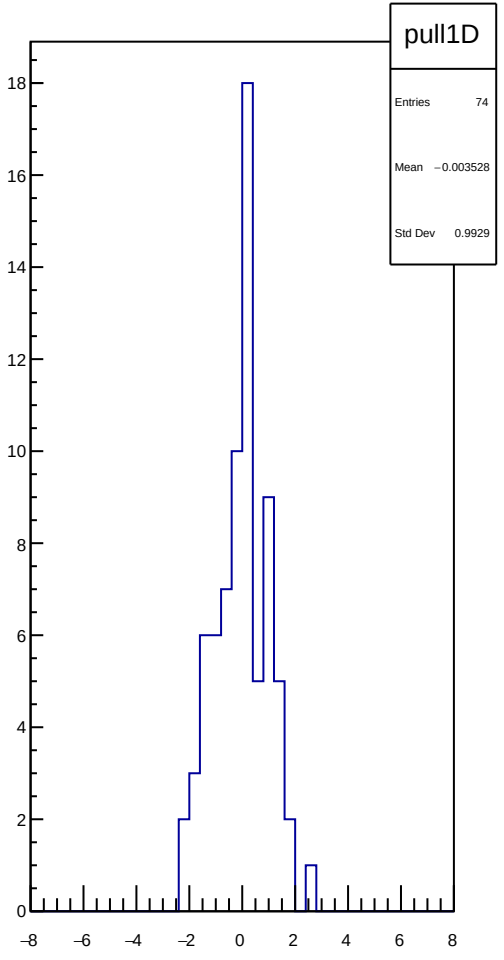

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.146e+04 / 73
p0 10.91 ± 0.009221
13
12.5
12
11.5
11
10.5
10
9.5
9

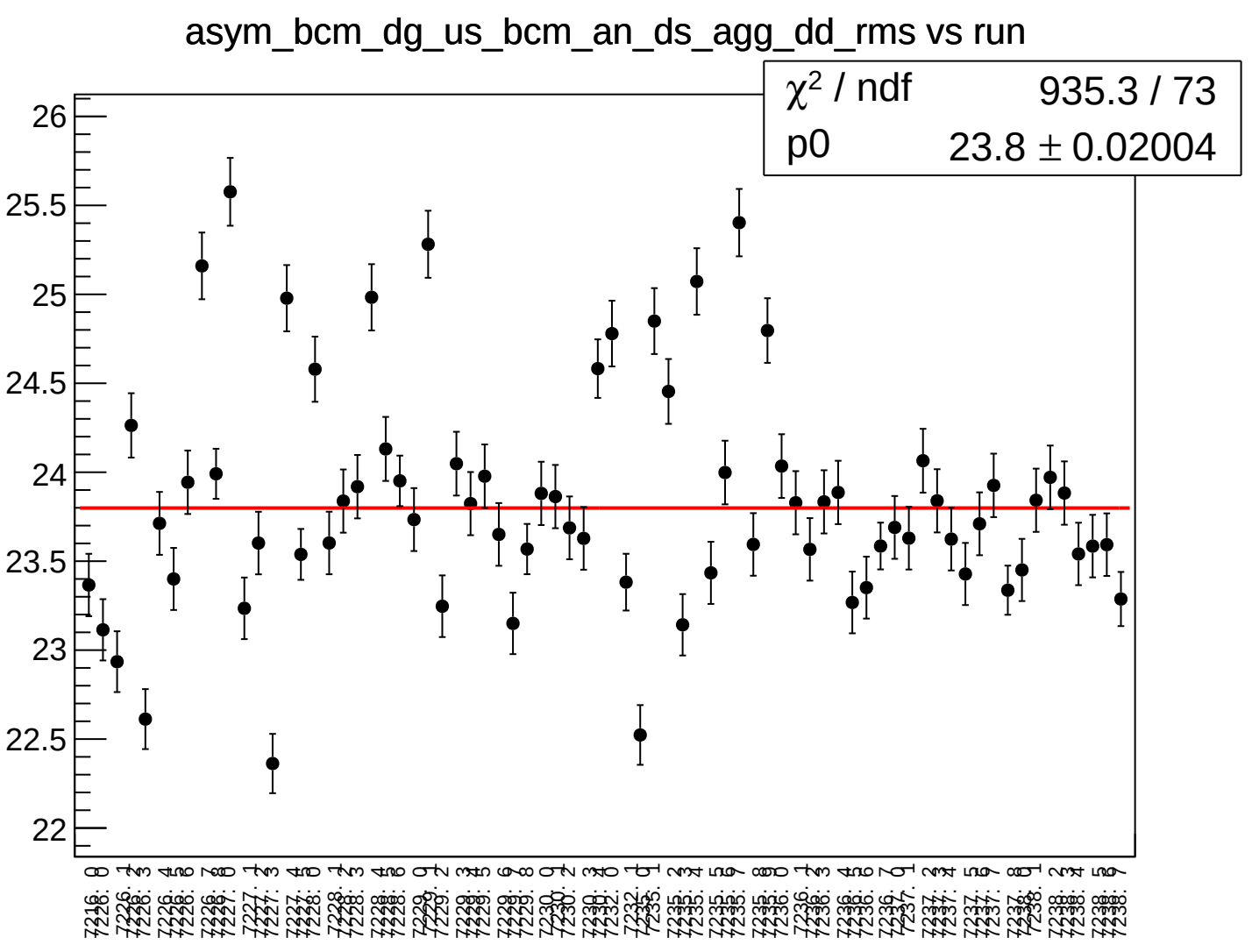

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.47 / 73
p0 134.7 ± 228.5
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 401
Std Dev 383.3
1
0.5
0
−0.5
−1

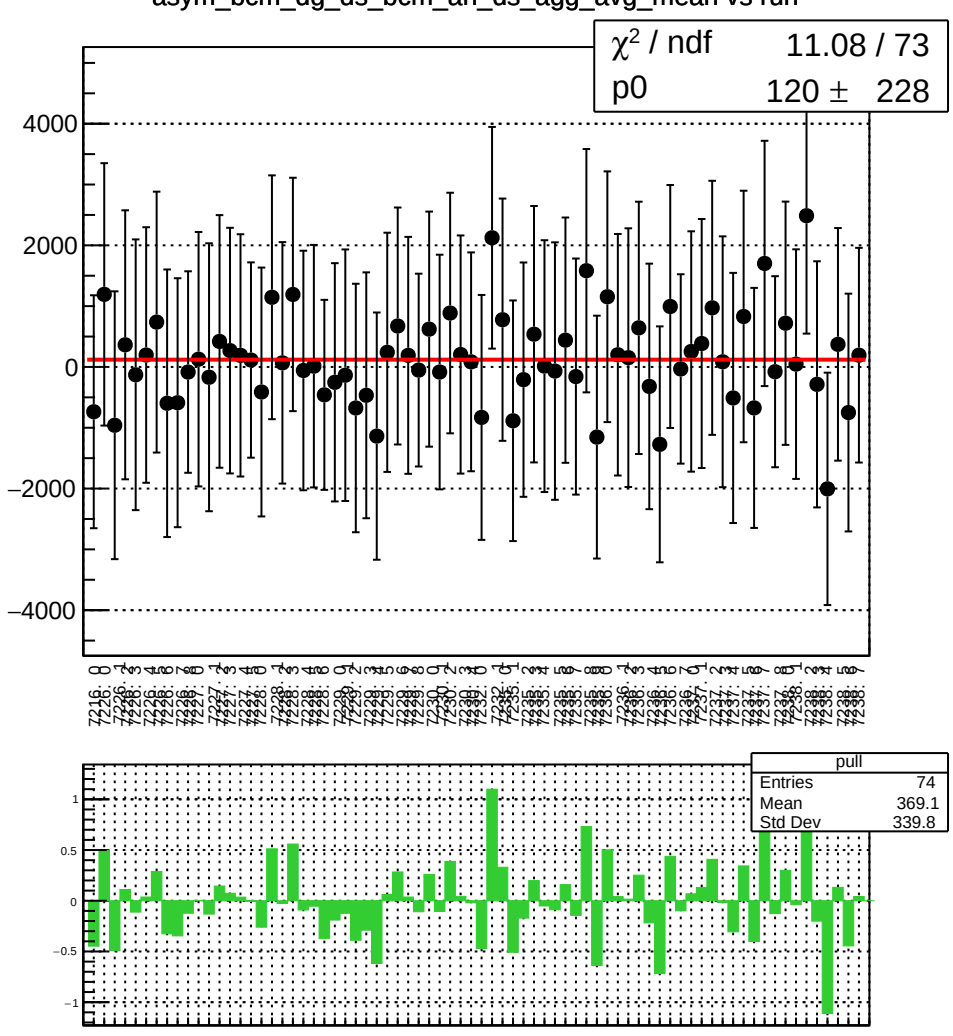

pull1D
Entries 74
Mean 0.001077
Std Dev 0.3762
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

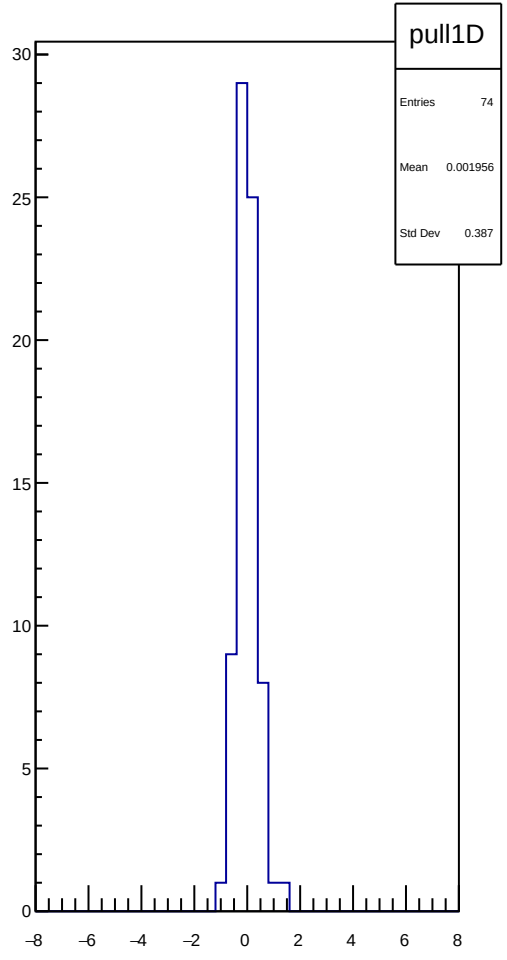

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1896 / 73
p0 191.7 ± 0.1615
215
210
205
200
195
190
185
180

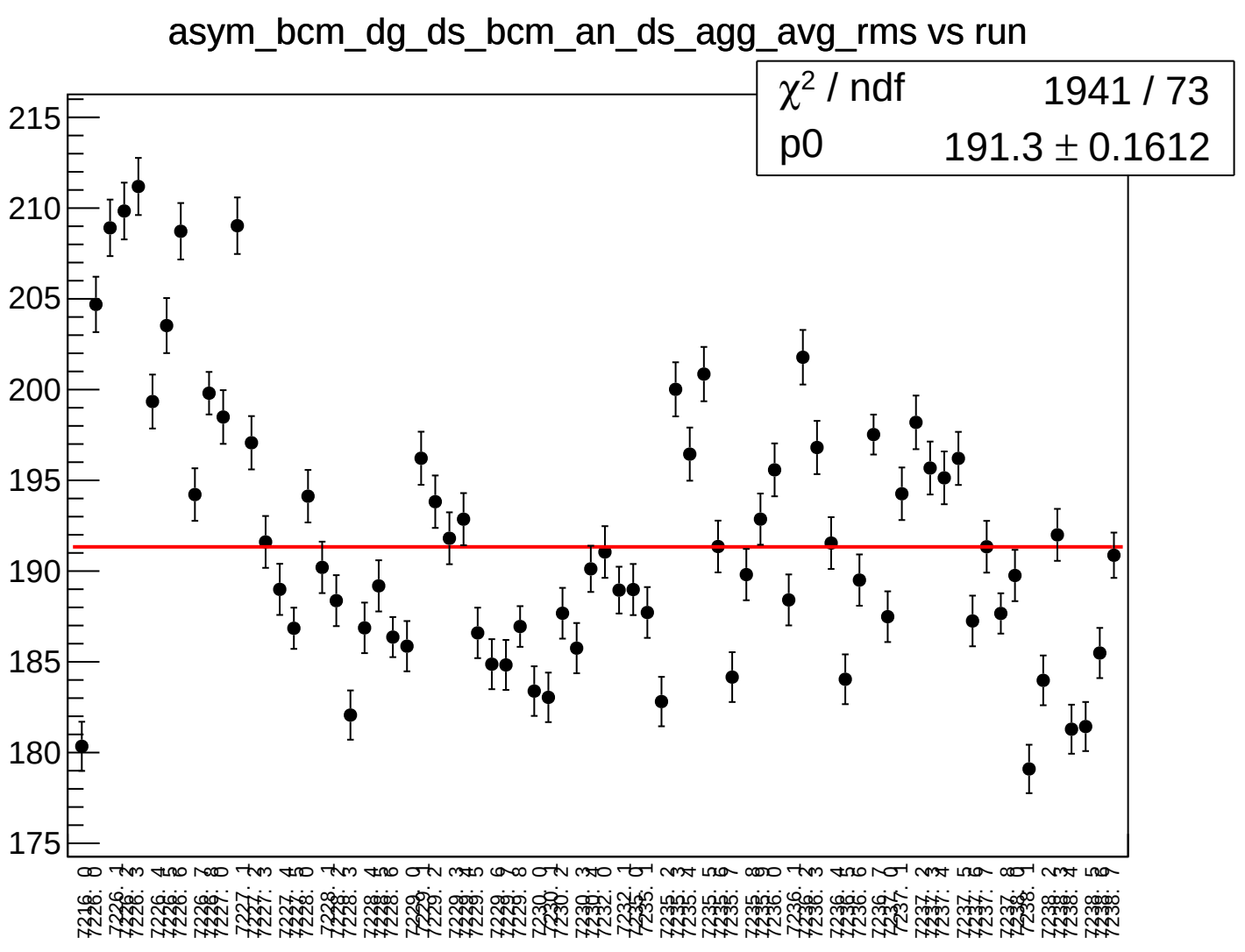

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.95 / 73
p0 −5.307 ± 28.35
pull
Entries 74
Mean 115.4
Std Dev 122.5

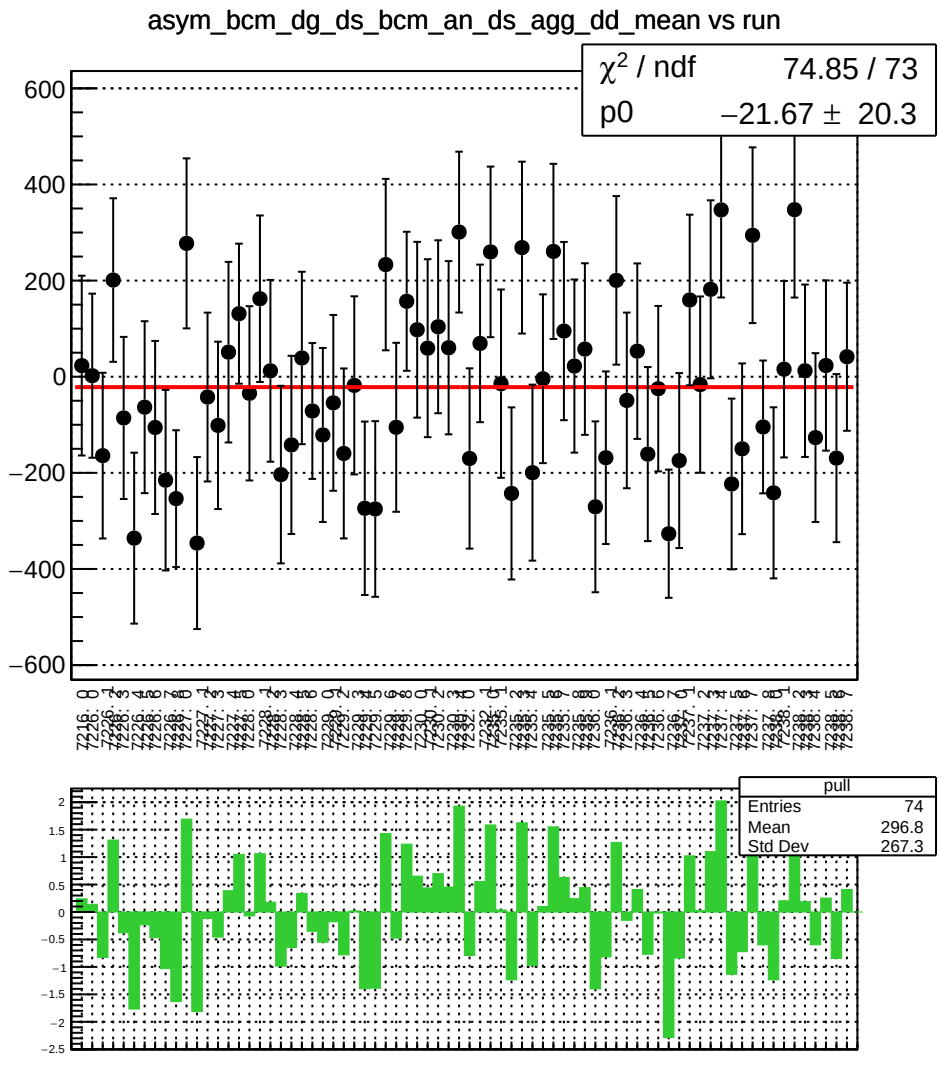

pull1D
Entries 74
Mean −0.003528
Std Dev 0.9929

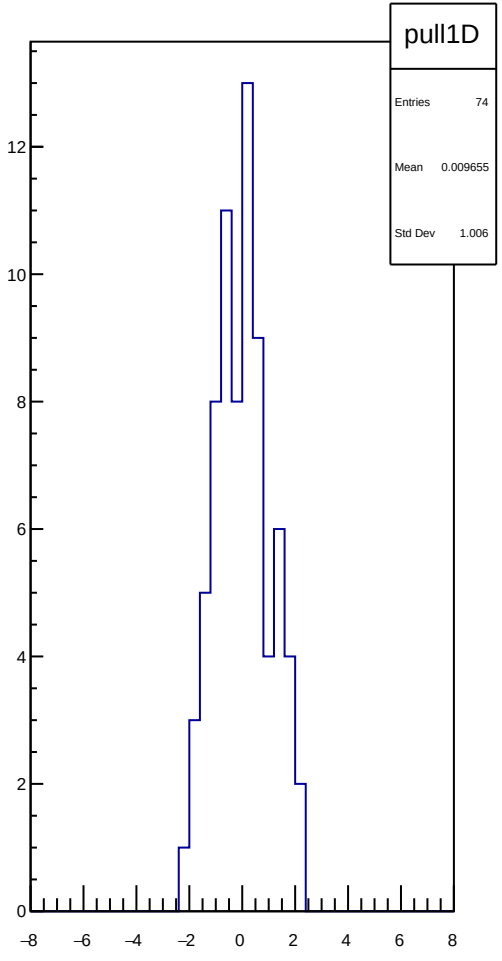

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 935.3 / 73
p0 23.8 ± 0.02004
26
25.5
25
24.5
24
23.5
23
22.5
22

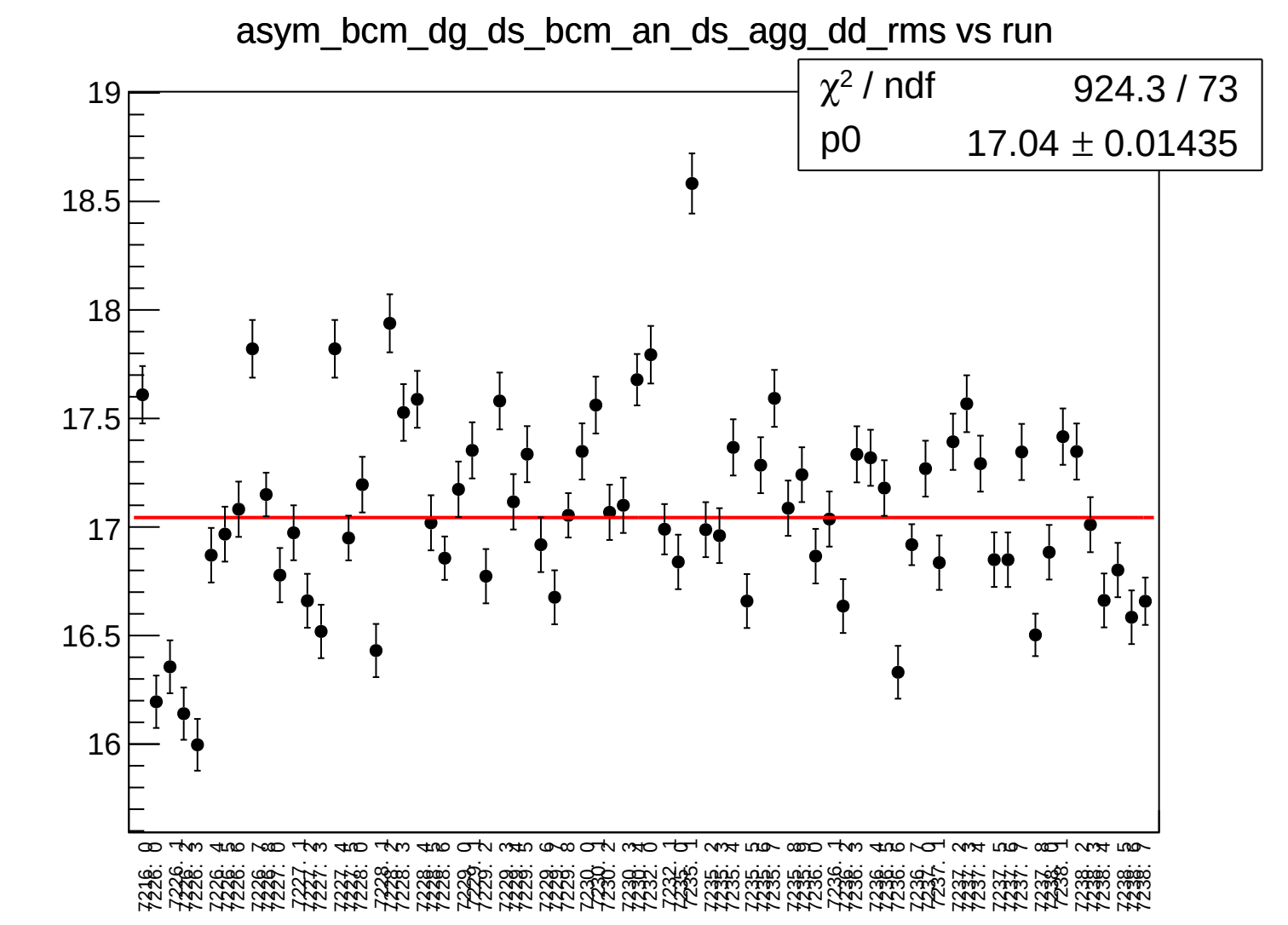

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.08 / 73
p0 120 ± 228
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 369.1
Std Dev 339.8
1
0.5
0
−0.5
−1

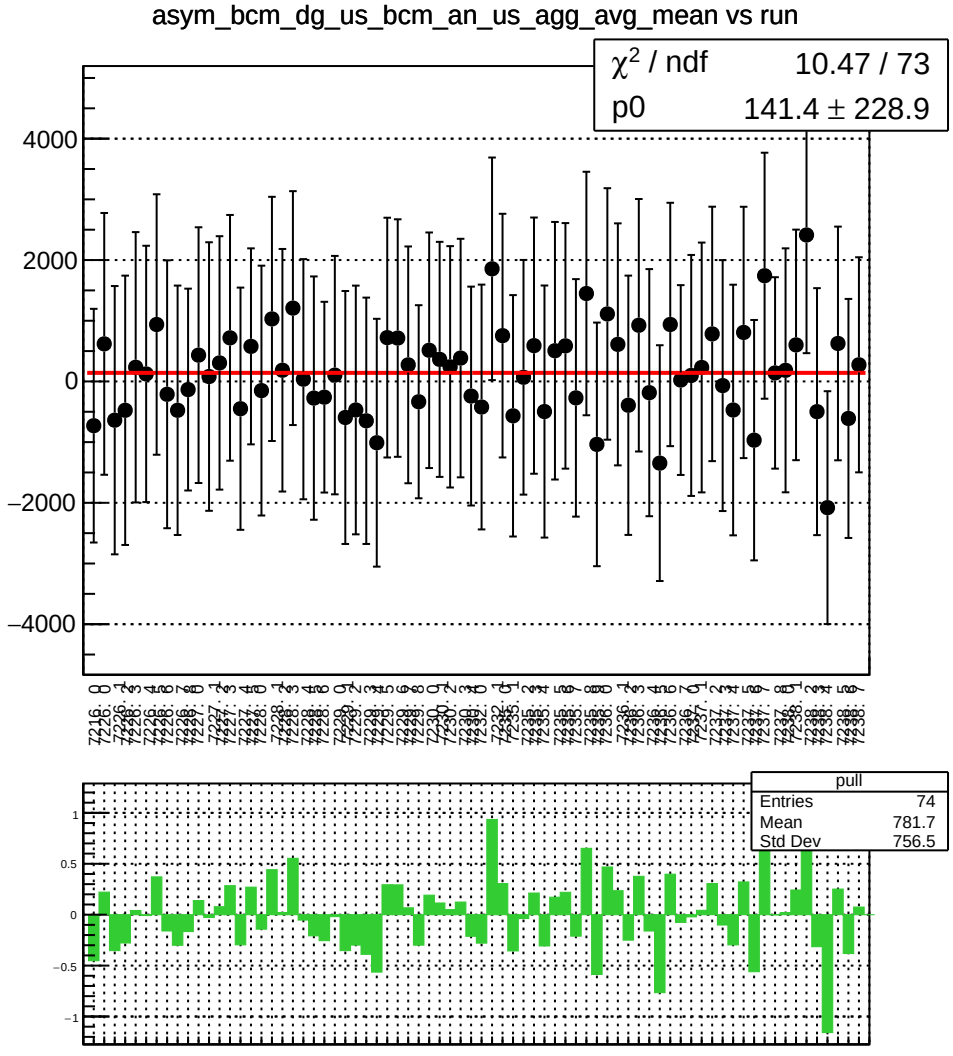

pull1D
Entries 74
Mean 0.001956
Std Dev 0.387
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

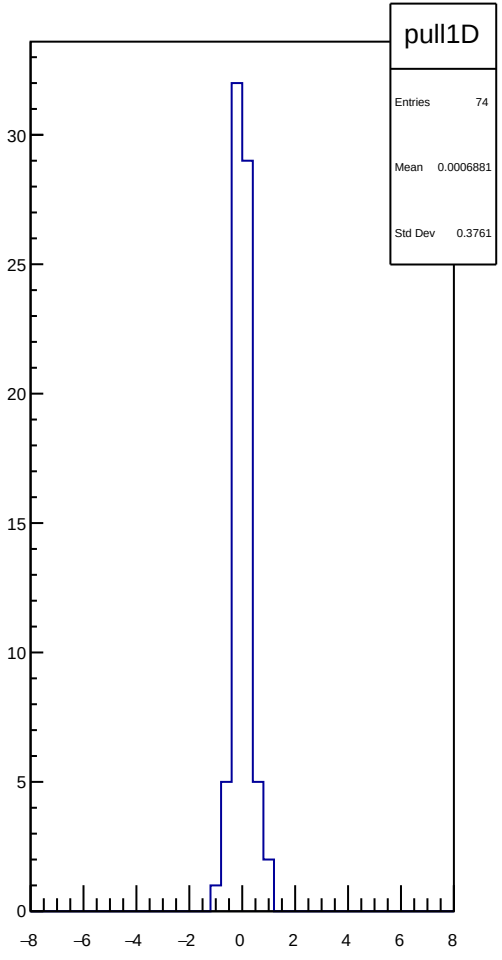

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1941 / 73
p0 191.3 ± 0.1612
215
210
205
200
195
190
185
180
175

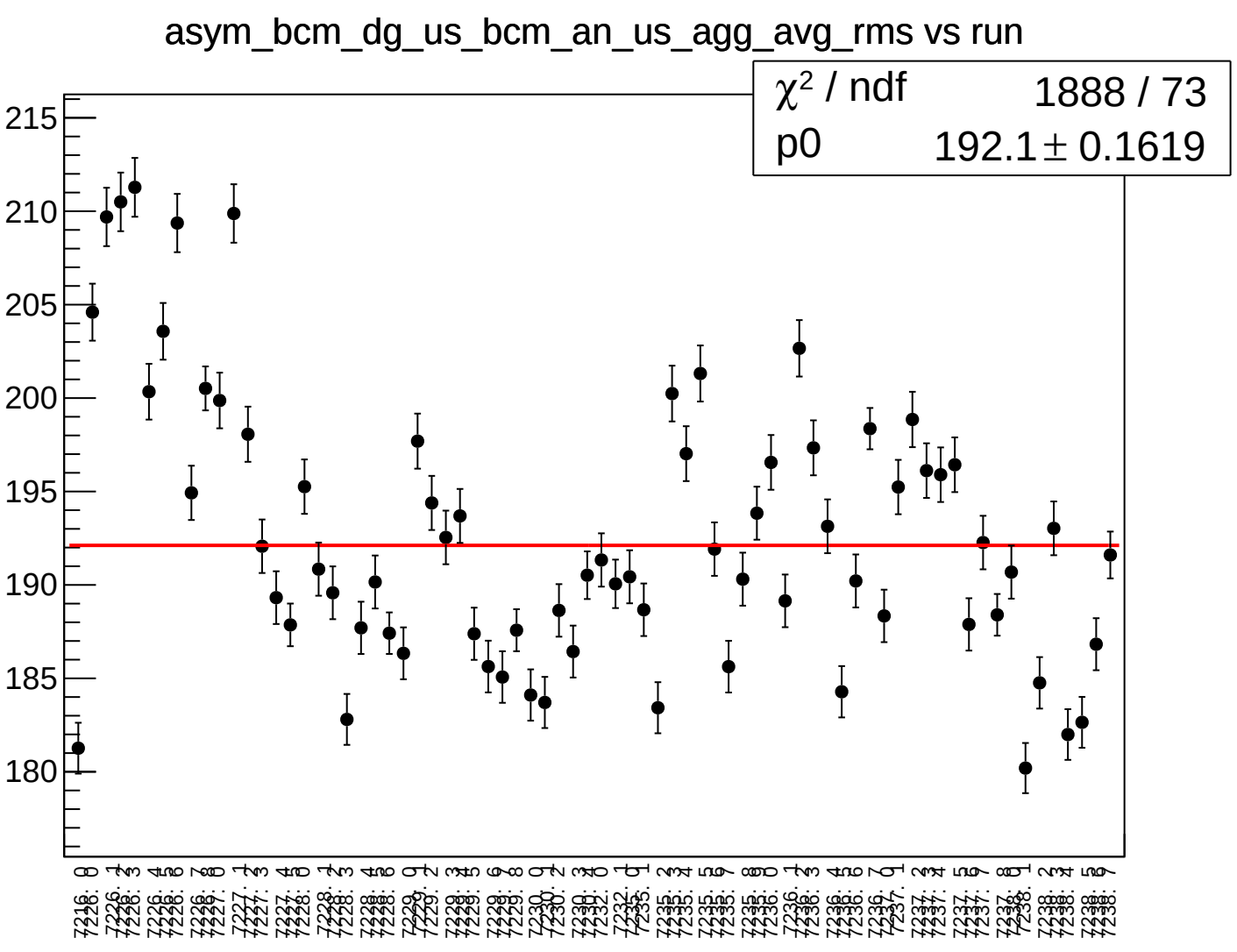

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.85 / 73
p0 −21.67 ± 20.3
pull
Entries 74
Mean 296.8
Std Dev 267.3

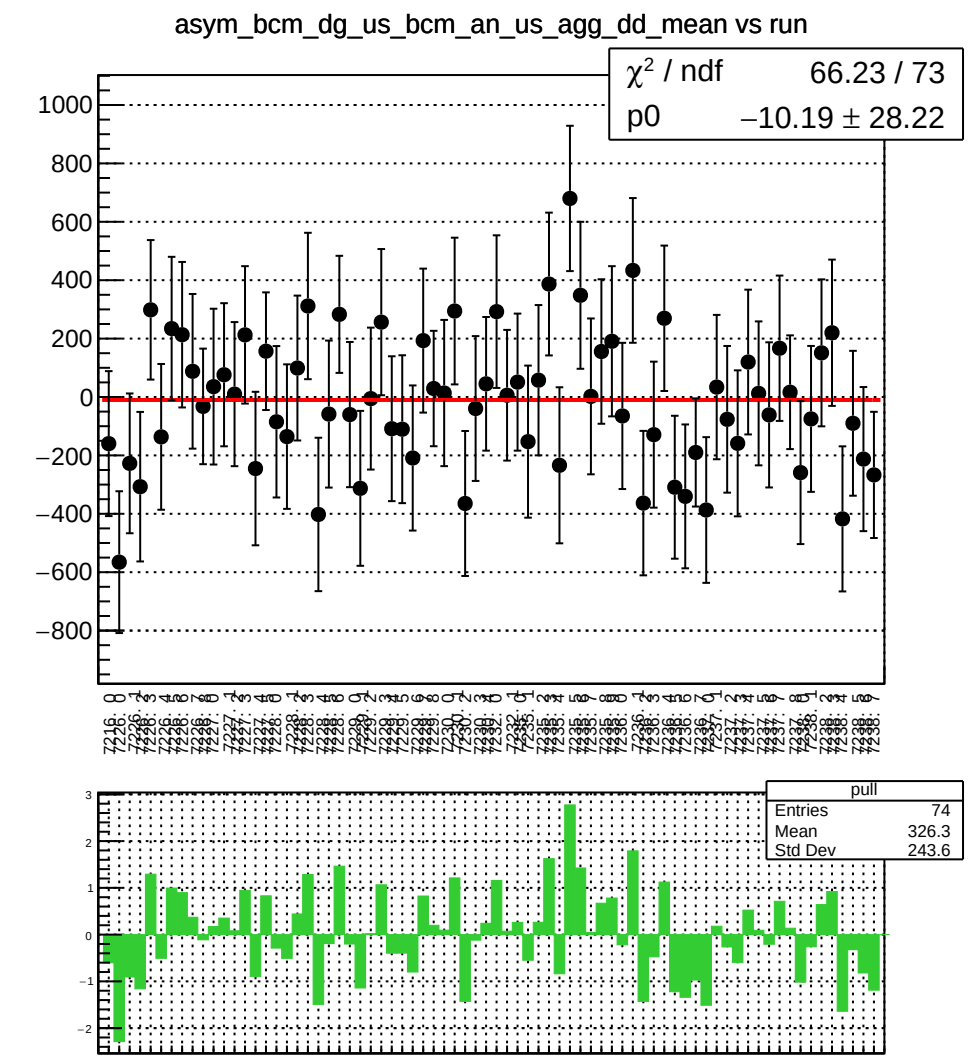

pull1D
Entries 74
Mean 0.009655
Std Dev 1.006

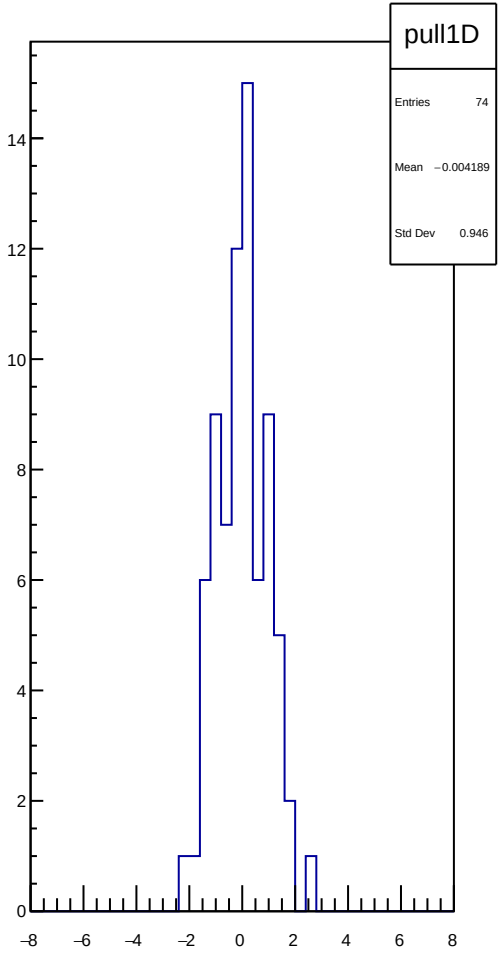

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 924.3 / 73
p0 17.04 ± 0.01435
19
18.5
18
17.5
17
16.5
16

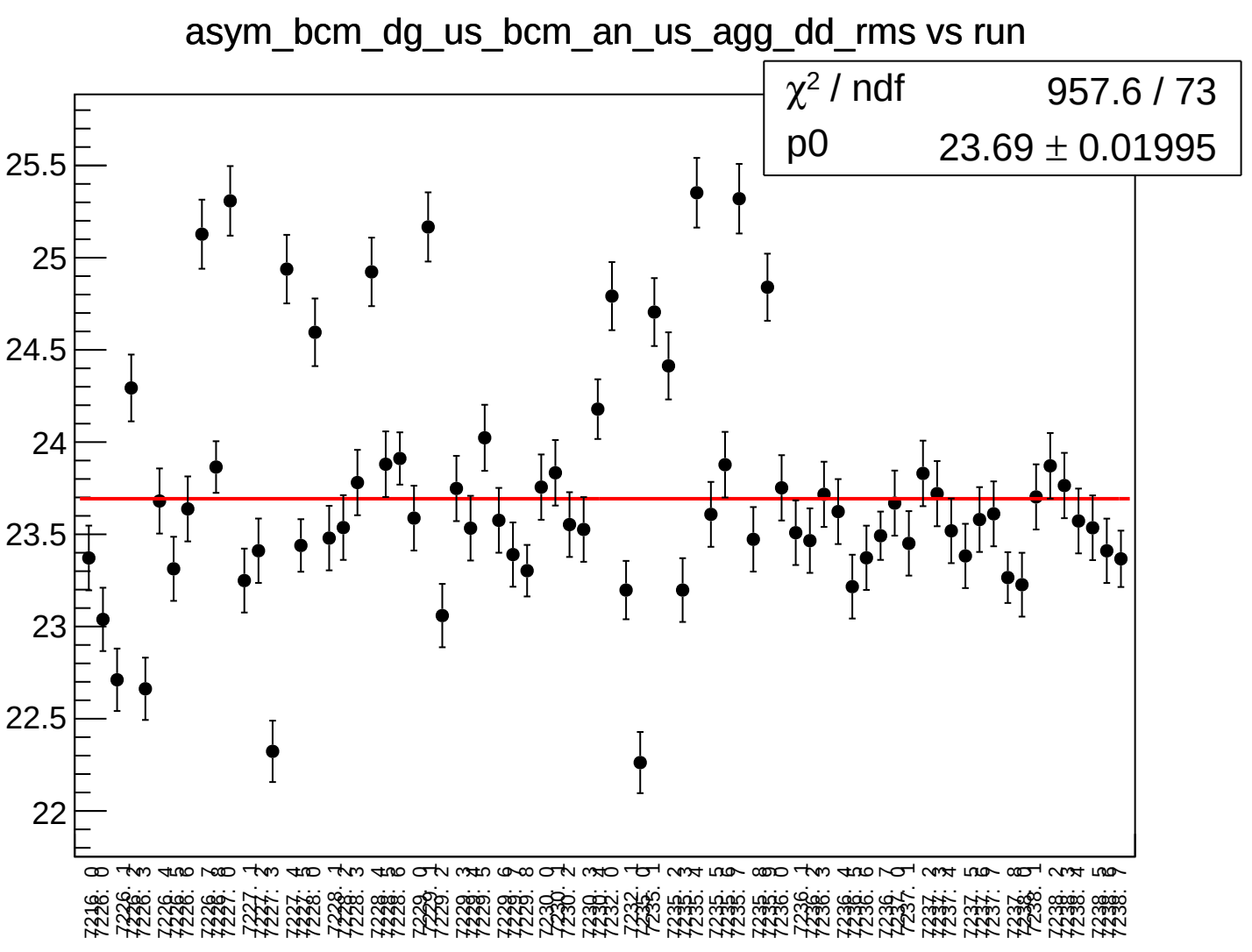

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.47 / 73
p0 141.4 ± 228.9
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 781.7
Std Dev 756.5
1
0.5
0
−0.5
−1

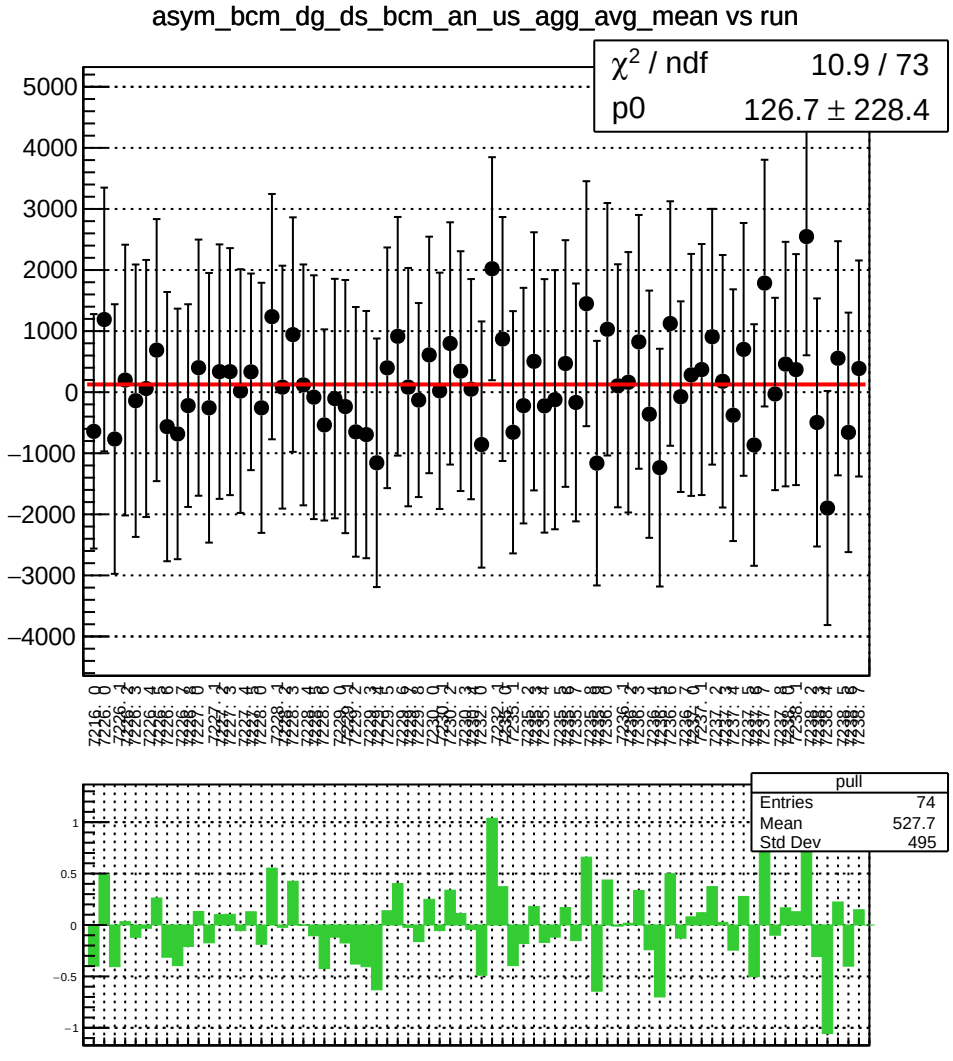

pull1D
Entries 74
Mean 0.0006881
Std Dev 0.3761
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

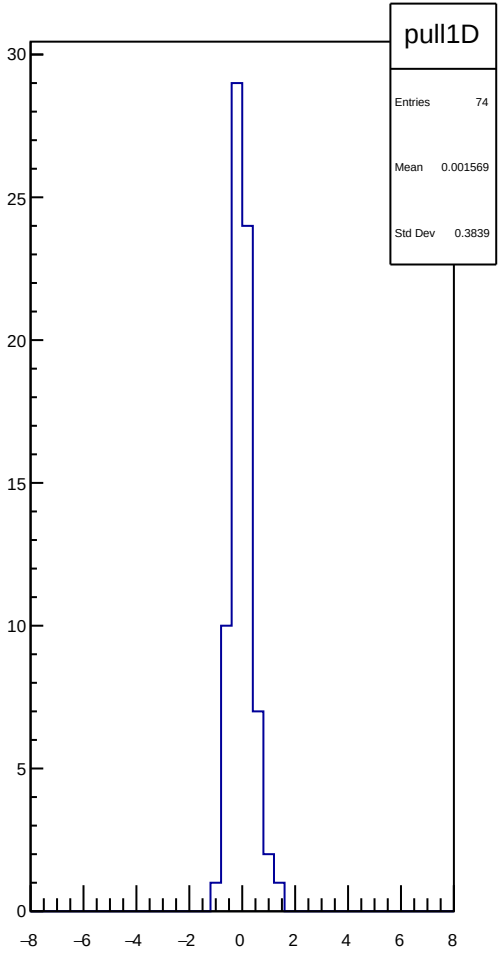

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1888 / 73
p0 192.1 ± 0.1619
215
210
205
200
195
190
185
180

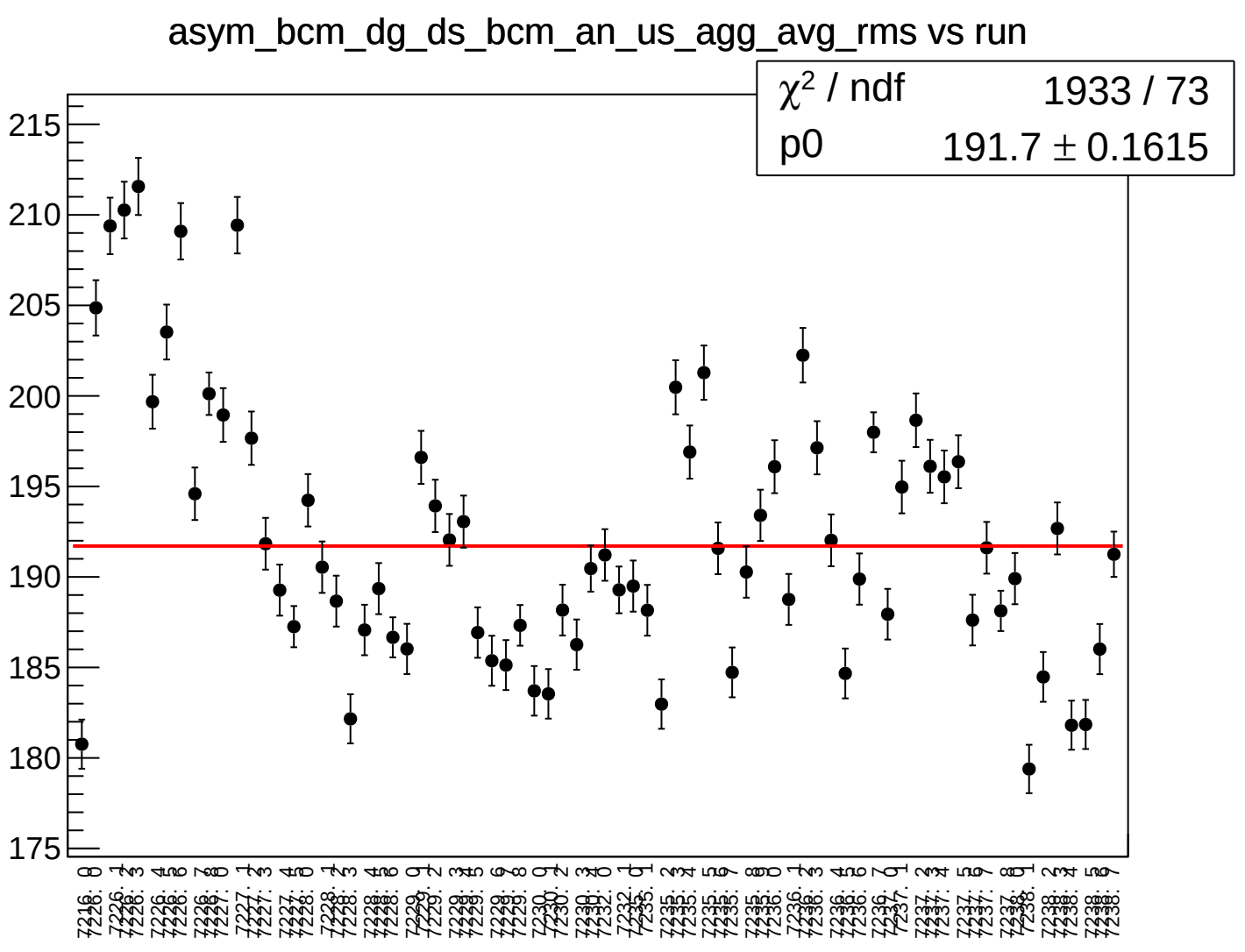

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 66.23 / 73
p0 −10.19 ± 28.22
pull
Entries 74
Mean 326.3
Std Dev 243.6

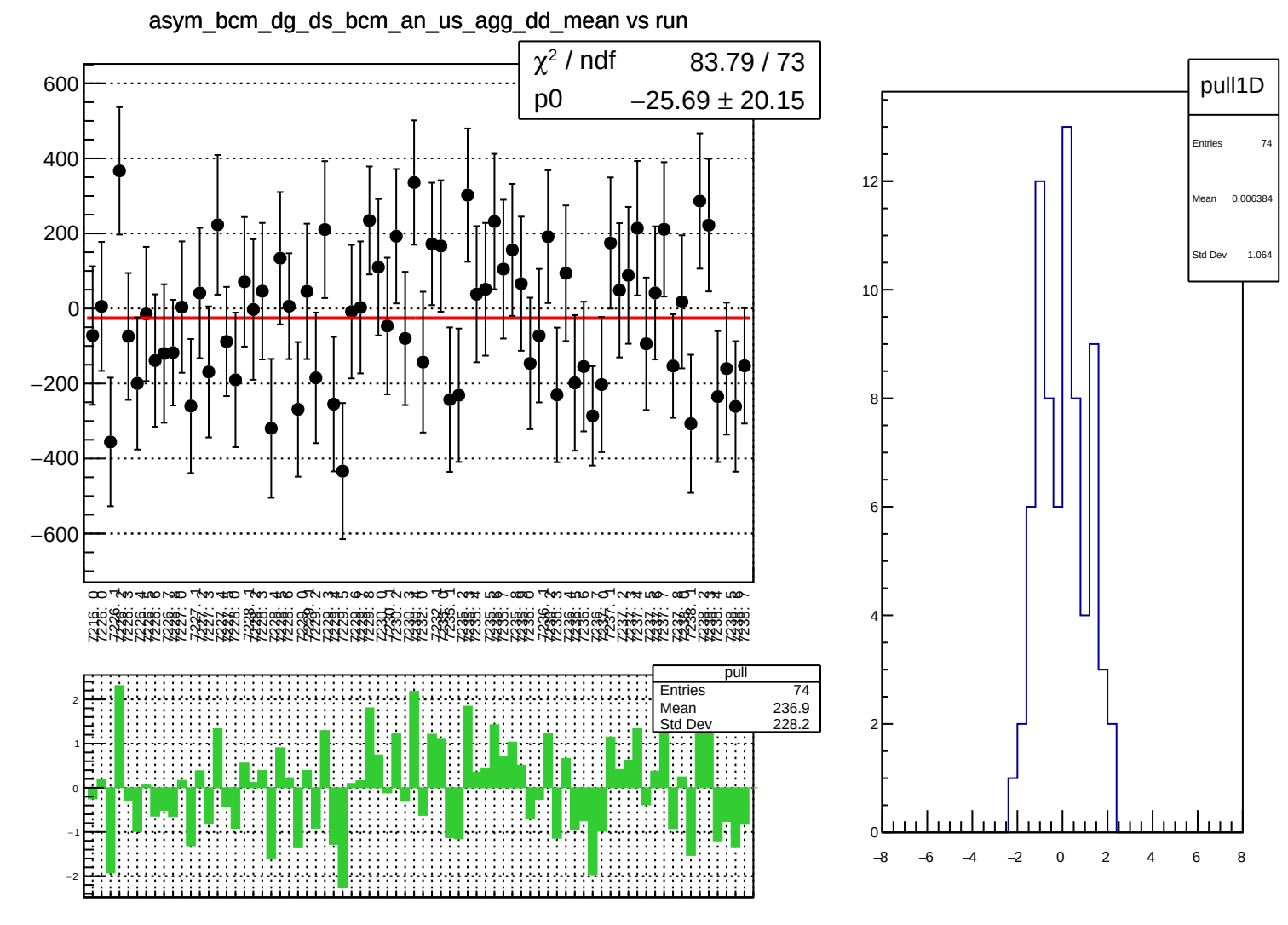

pull1D
Entries 74
Mean −0.004189
Std Dev 0.946

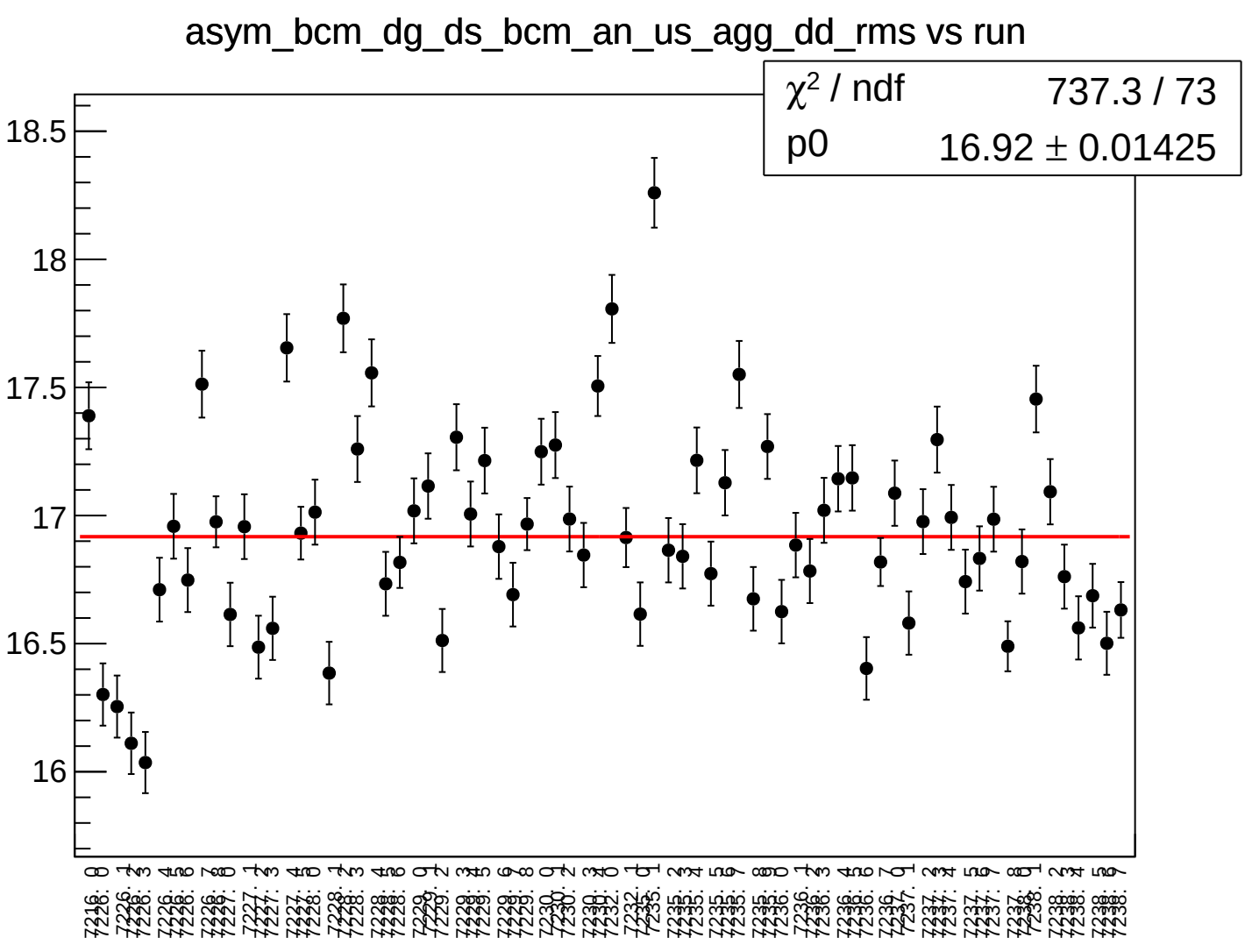

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 957.6 / 73
p0 23.69 ± 0.01995
25.5
25
24.5
24
23.5
23
22.5
22

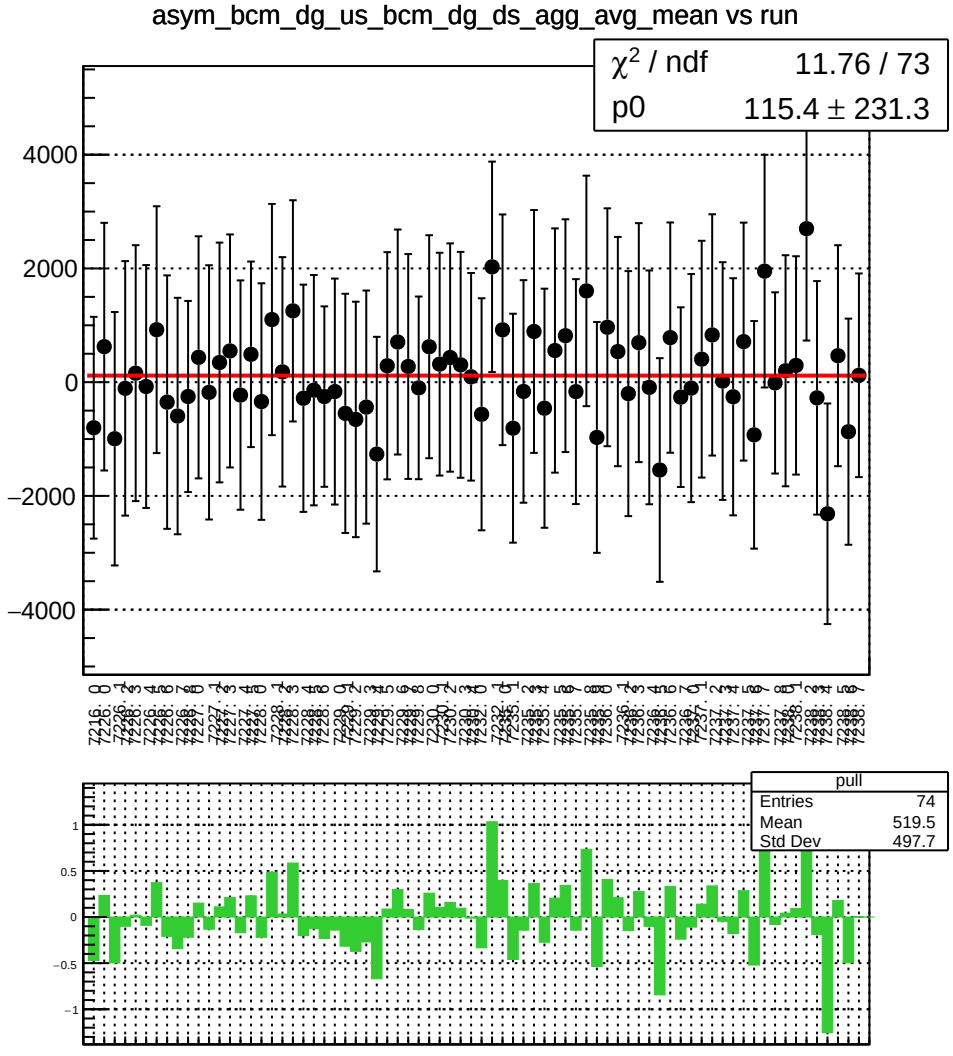

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.9 / 73
p0 126.7 ± 228.4
pull
Entries 74
Mean 527.7
Std Dev 495

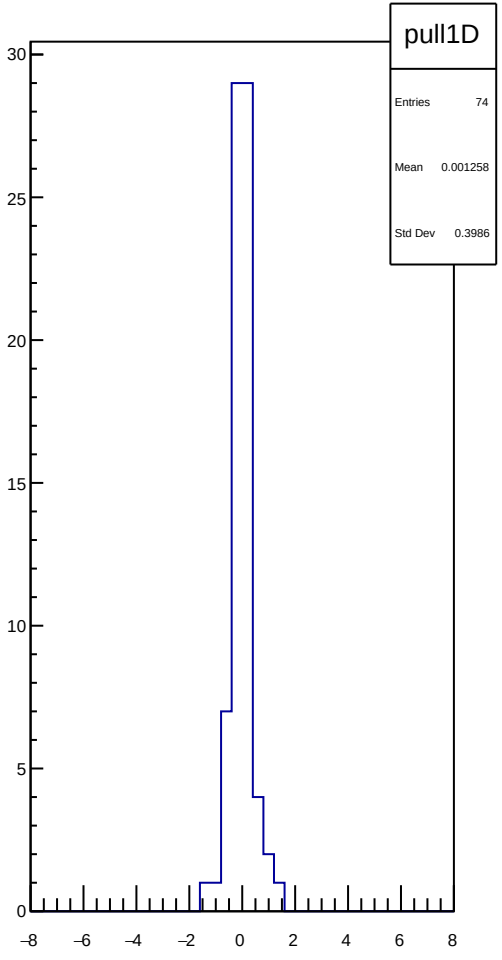

pull1D
Entries 74
Mean 0.001569
Std Dev 0.3839

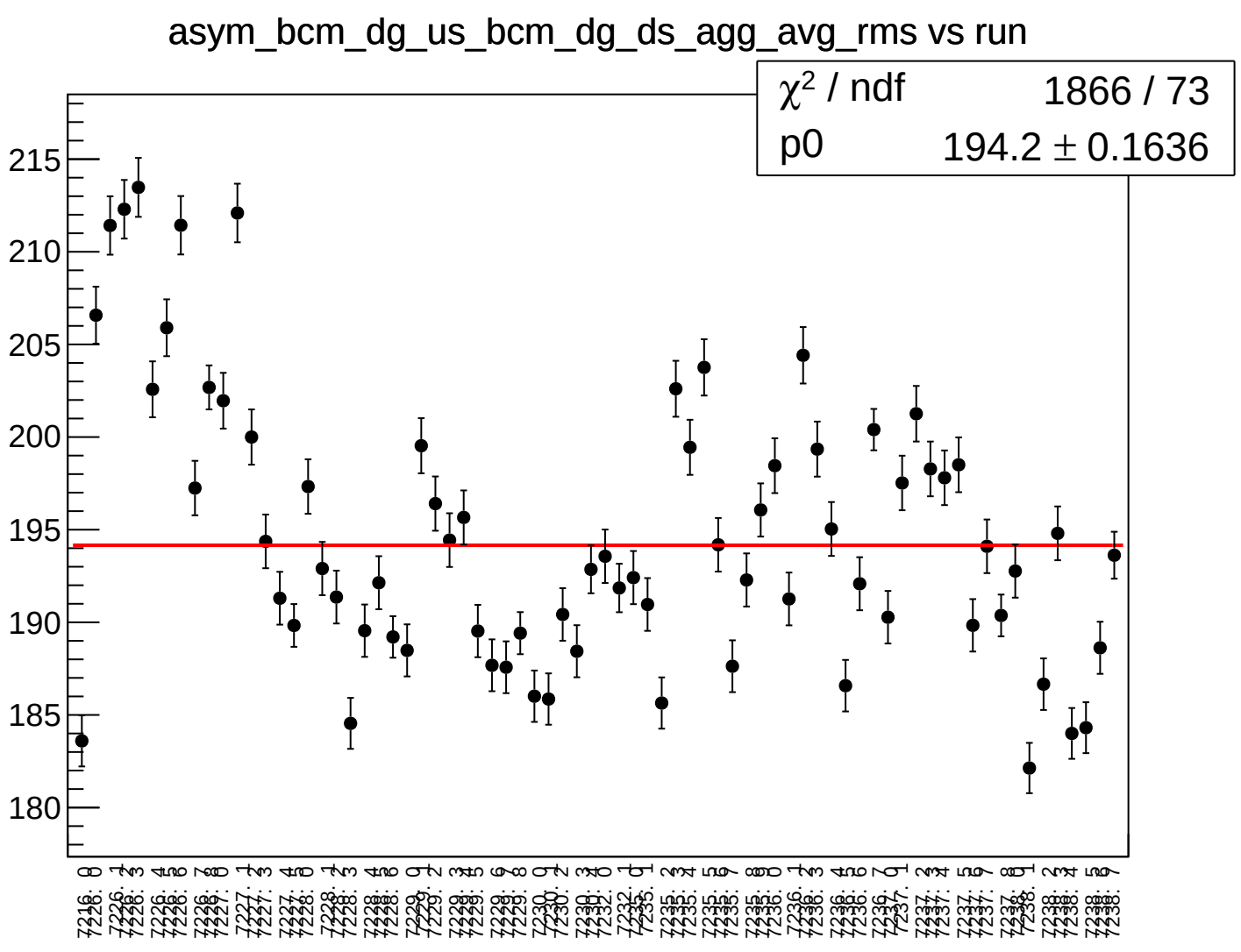

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1933 / 73
p0 191.7 ± 0.1615
215
210
205
200
195
190
185
180
175

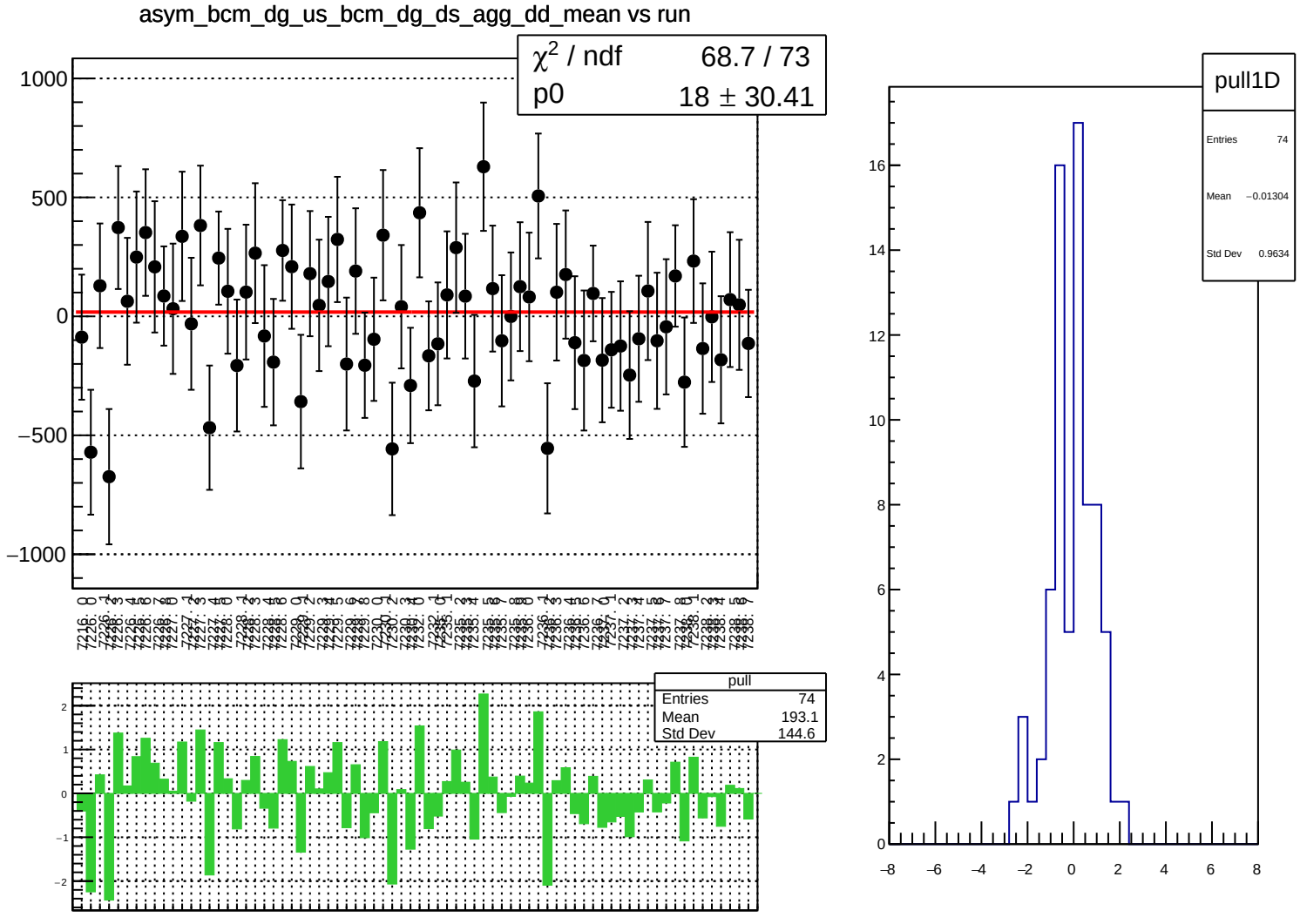

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.79 / 73
p0 −25.69 ± 20.15
pull
Entries 74
Mean 236.9
Std Dev 228.2
pull1D
Entries 74
Mean 0.006384
Std Dev 1.064

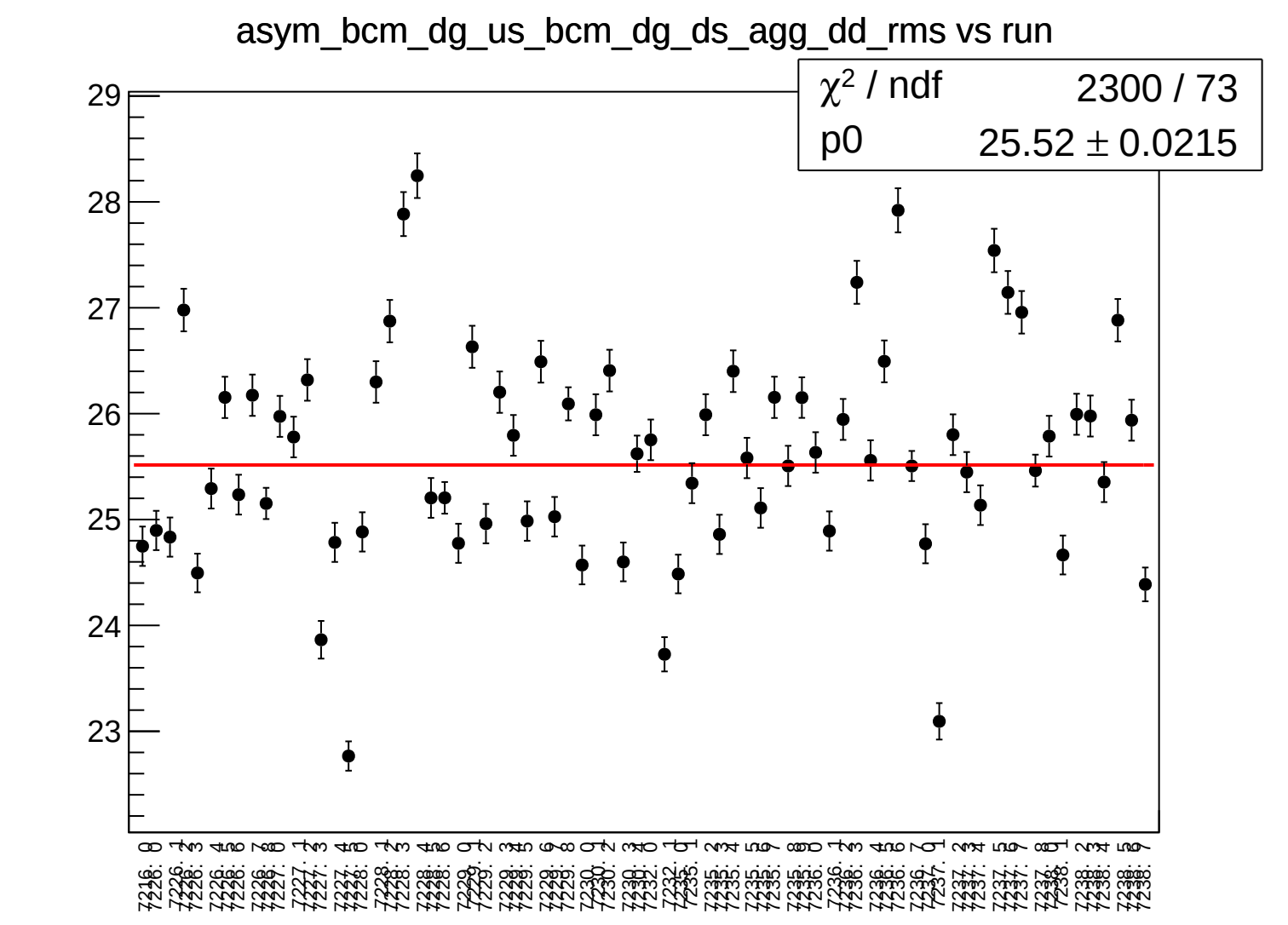

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 737.3 / 73
p0 16.92 ± 0.01425
18.5
18
17.5
17
16.5
16

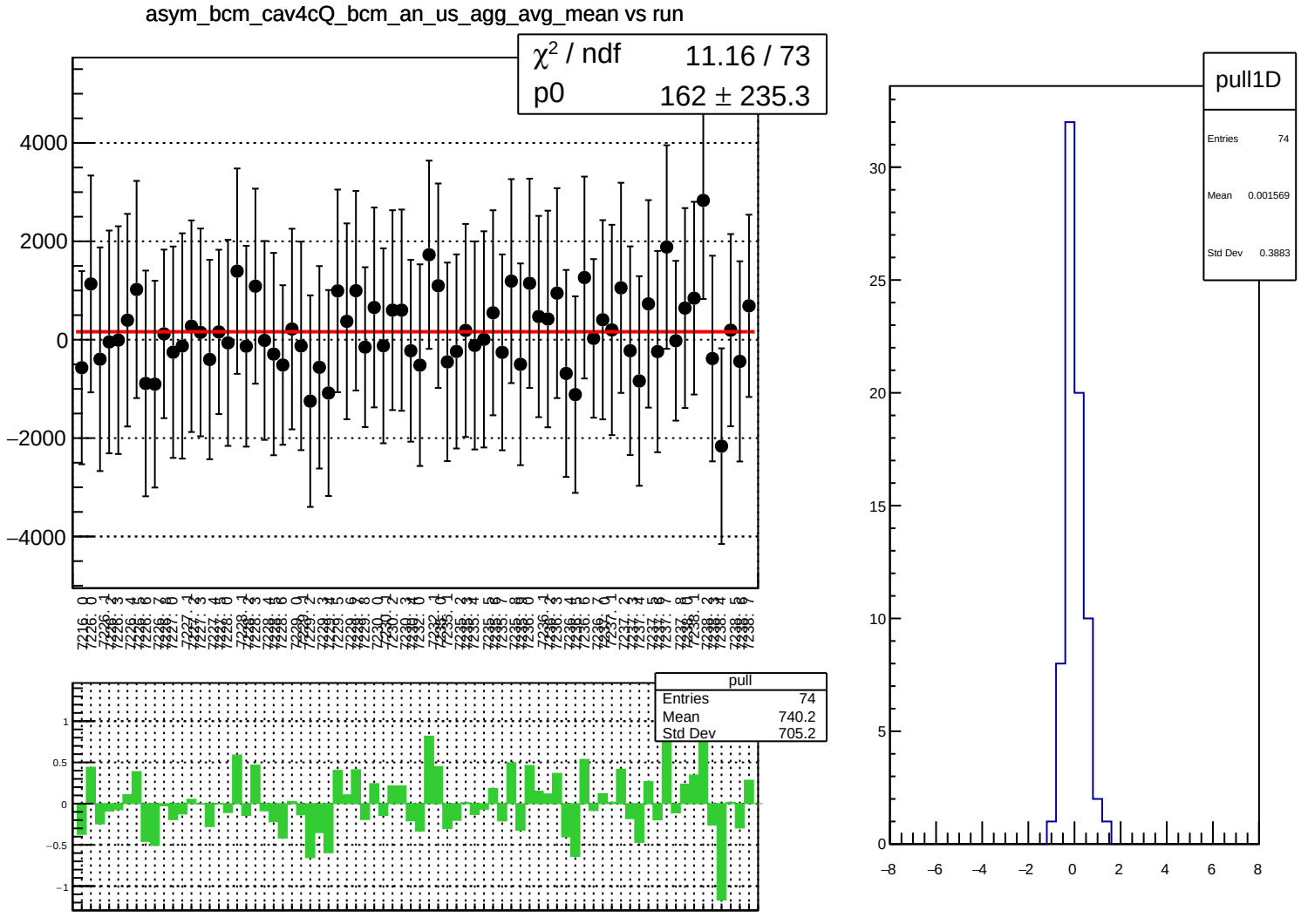

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 11.76 / 73
p0 115.4 ± 231.3
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 519.5
Std Dev 497.7
1
0.5
0
−0.5
−1

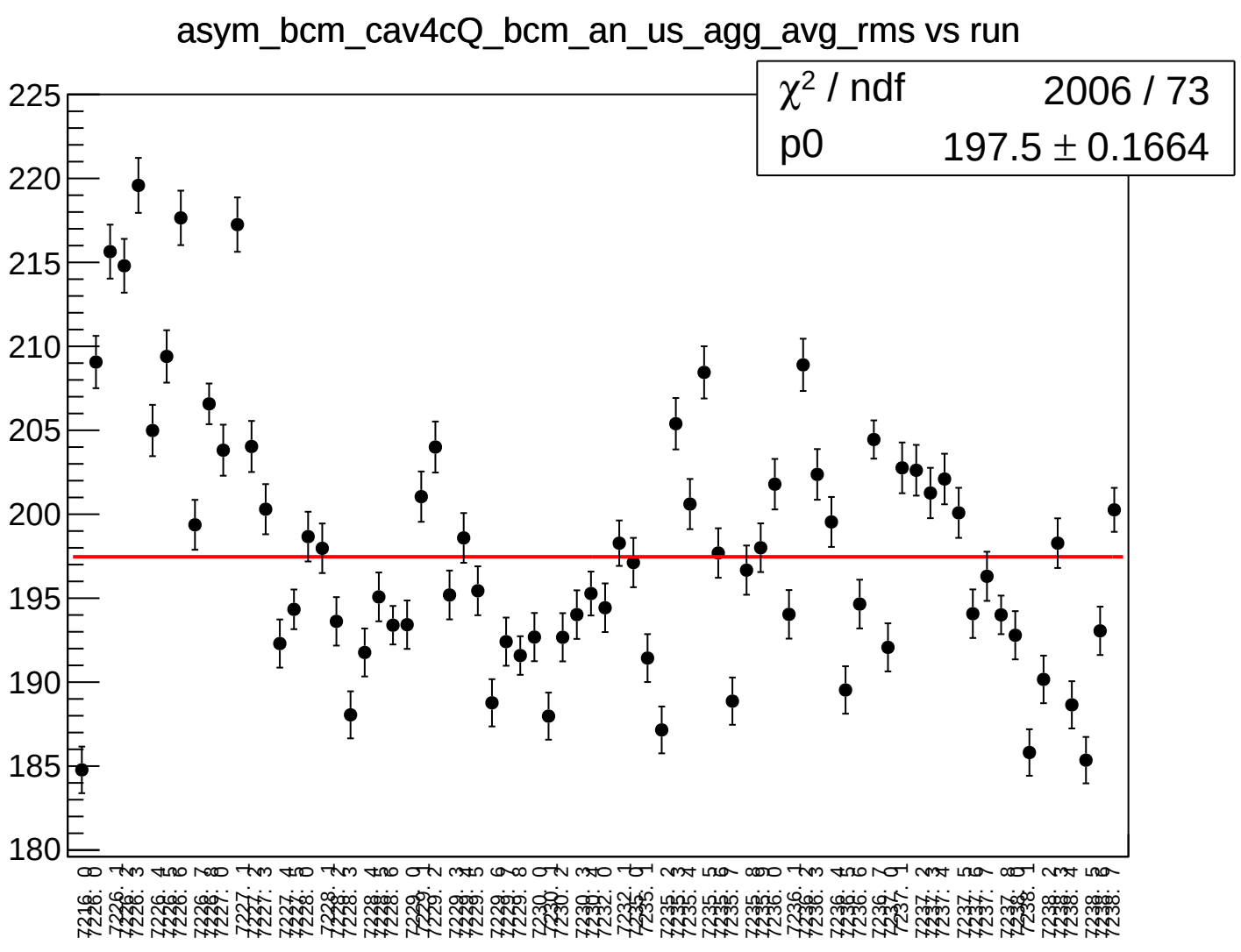

pull1D
Entries 74
Mean 0.001258
Std Dev 0.3986
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

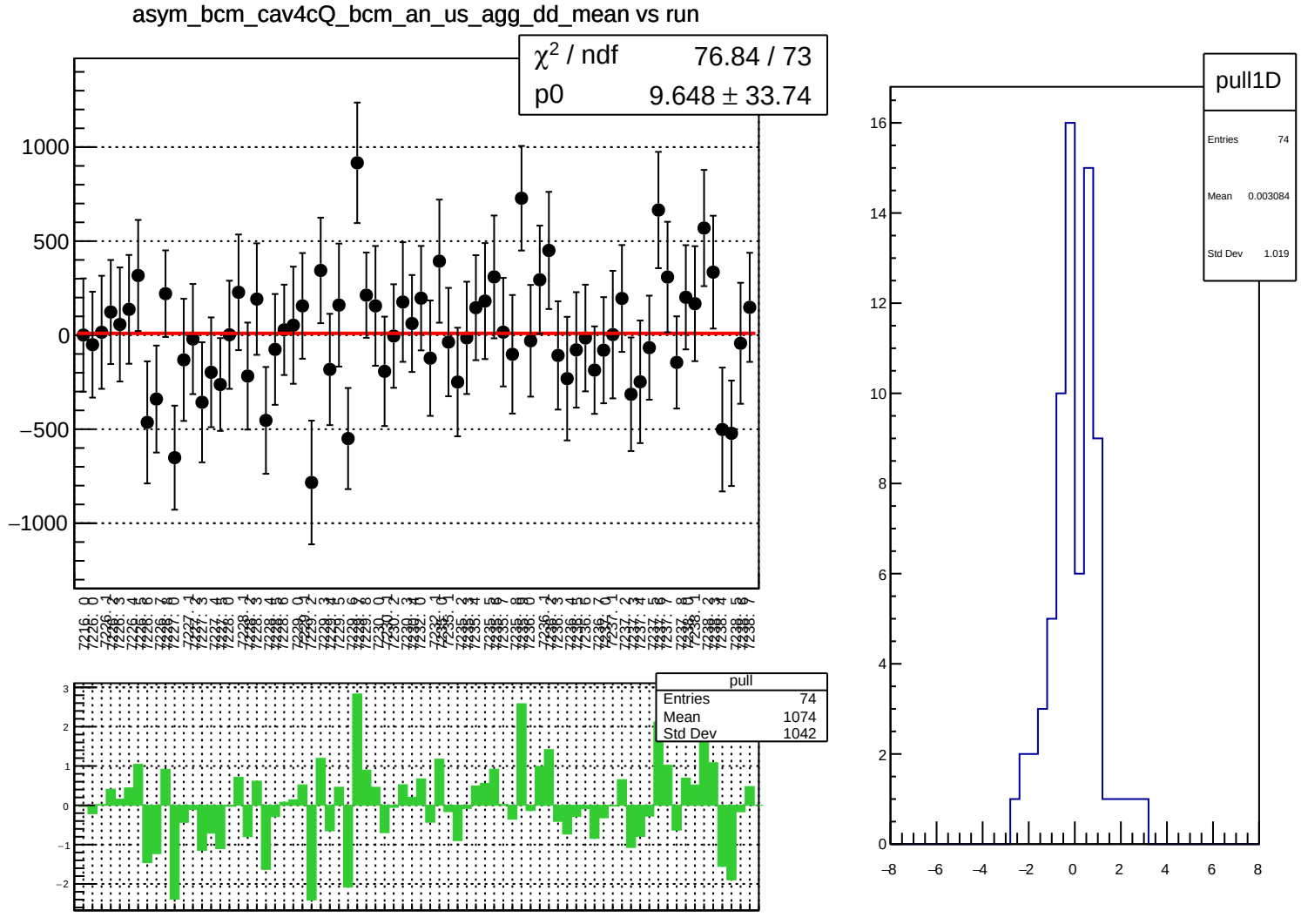

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1866 / 73
p0 194.2 ± 0.1636
215
210
205
200
195
190
185
180

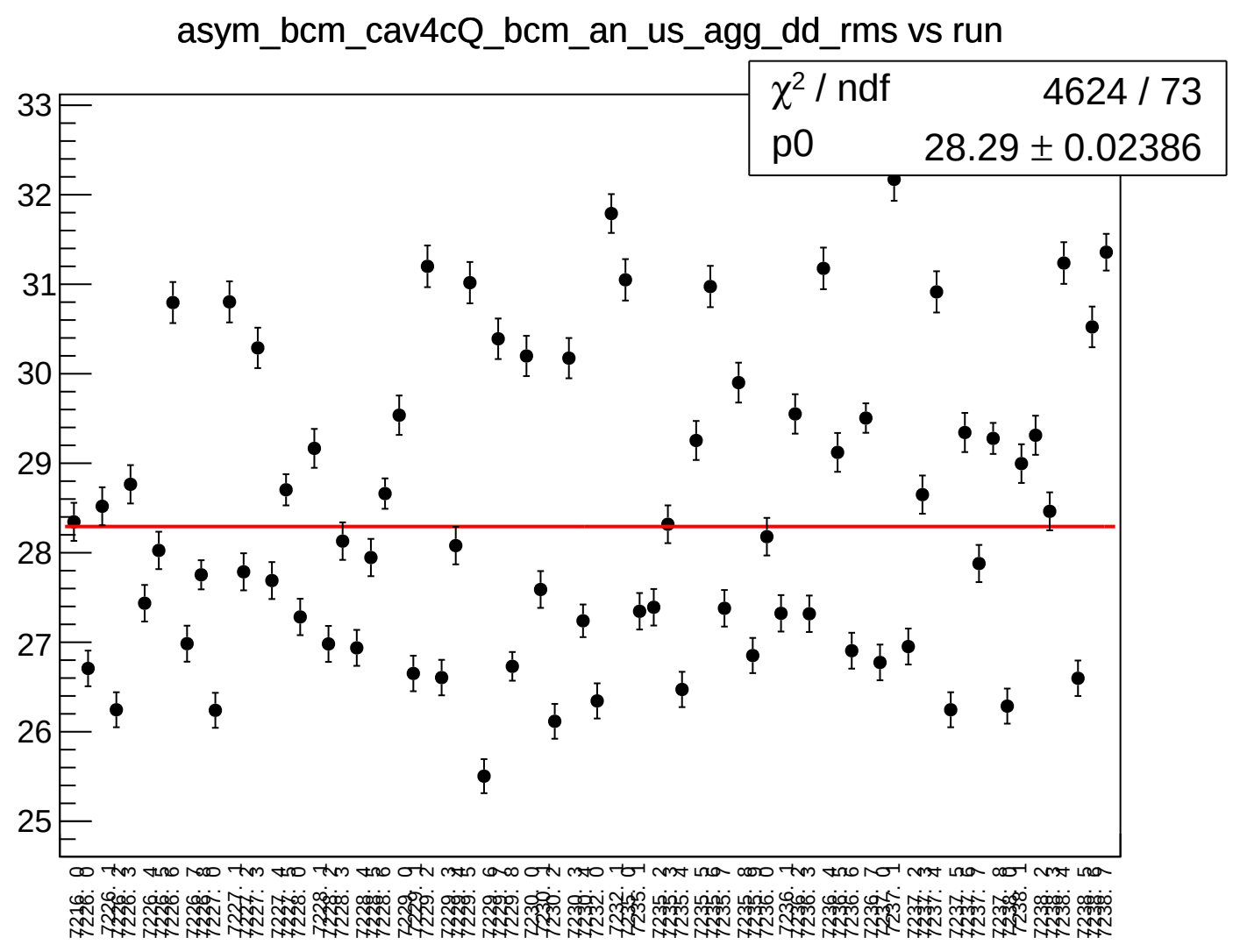

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 68.7 / 73
p0 18 ± 30.41
1000
500
0
−500
−1000
pull
Entries 74
Mean 193.1
Std Dev 144.6
pull1D
Entries 74
Mean −0.01304
Std Dev 0.9634

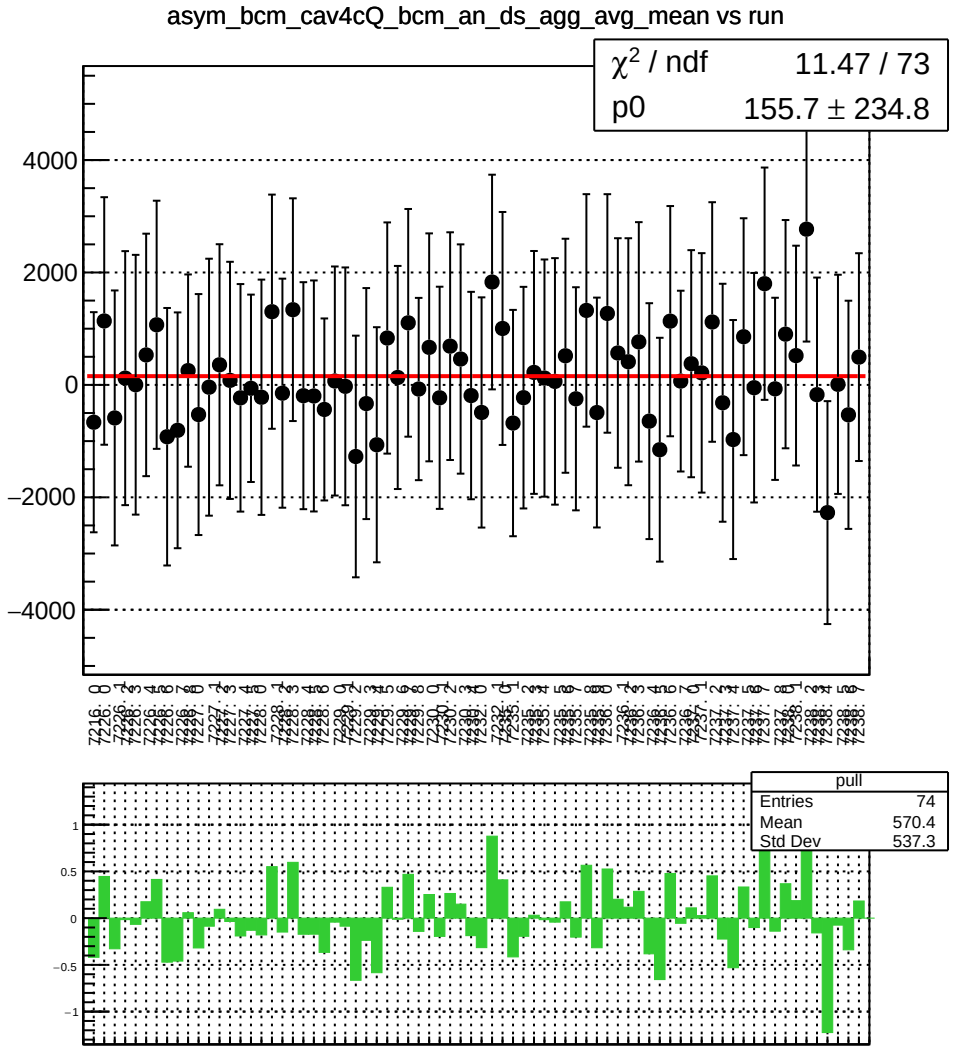

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2300 / 73
p0 25.52 ± 0.0215
29
28
27
26
25
24
23

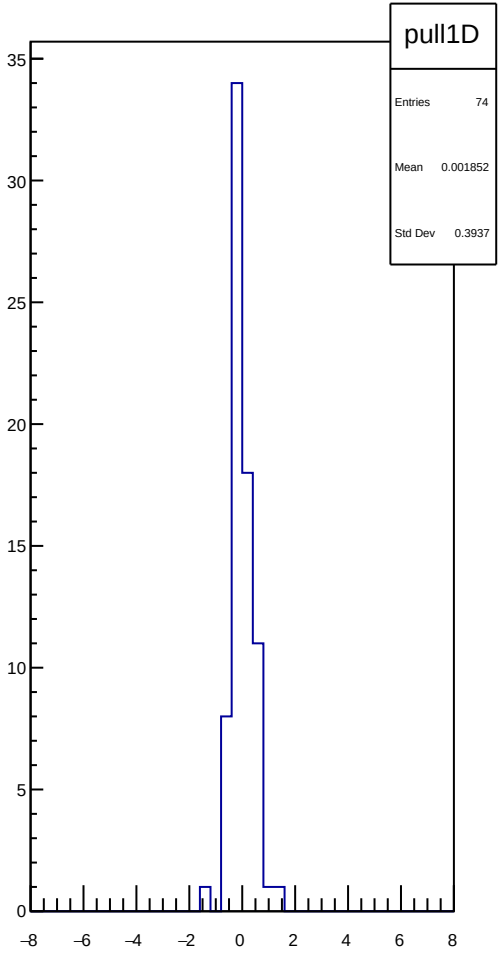

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.16 / 73
p0 162 ± 235.3
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 740.2
Std Dev 705.2
1
0.5
0
−0.5
−1
pull1D
Entries 74
Mean 0.001569
Std Dev 0.3883
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

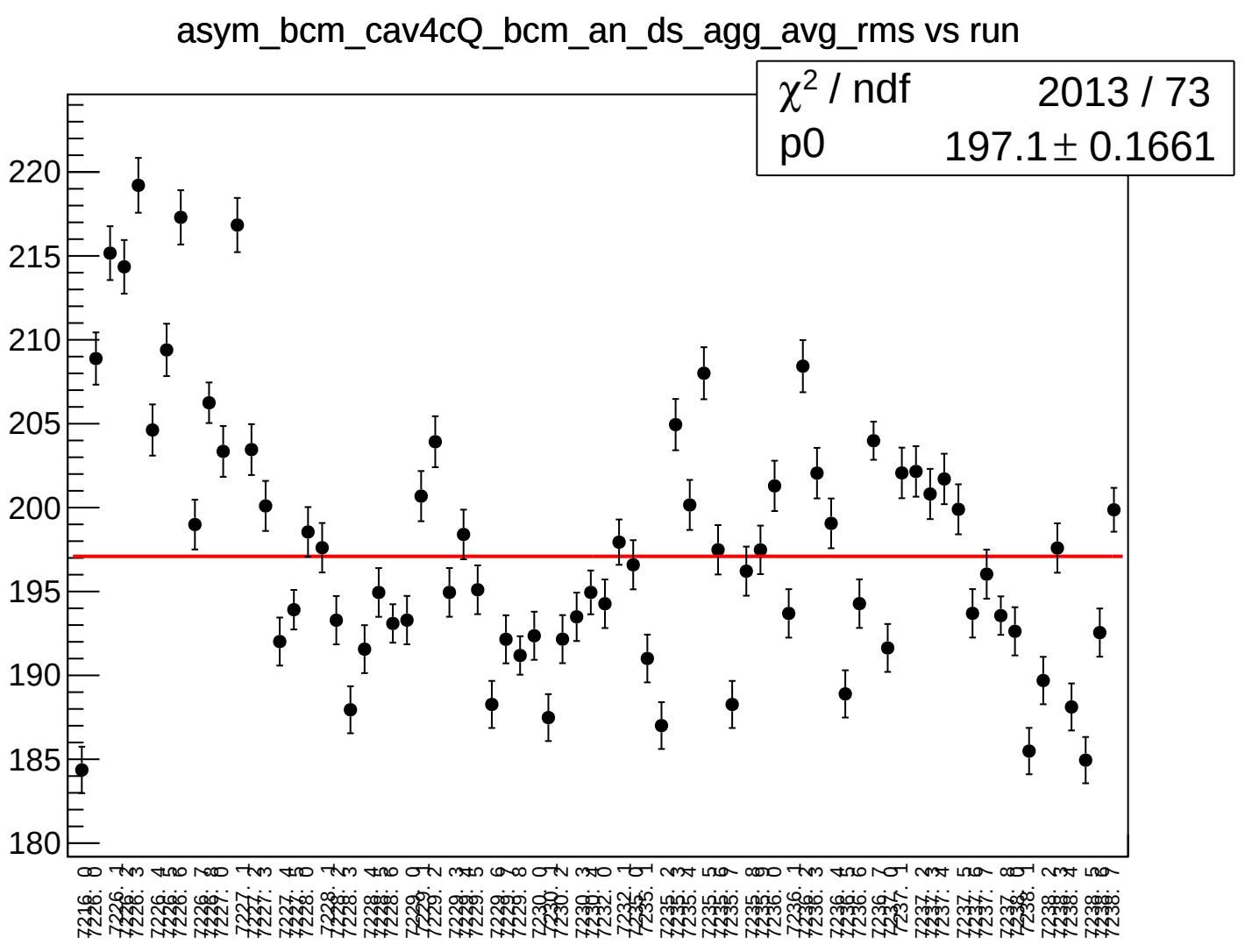

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2006 / 73
p0 197.5 ± 0.1664
225
220
215
210
205
200
195
190
185
180

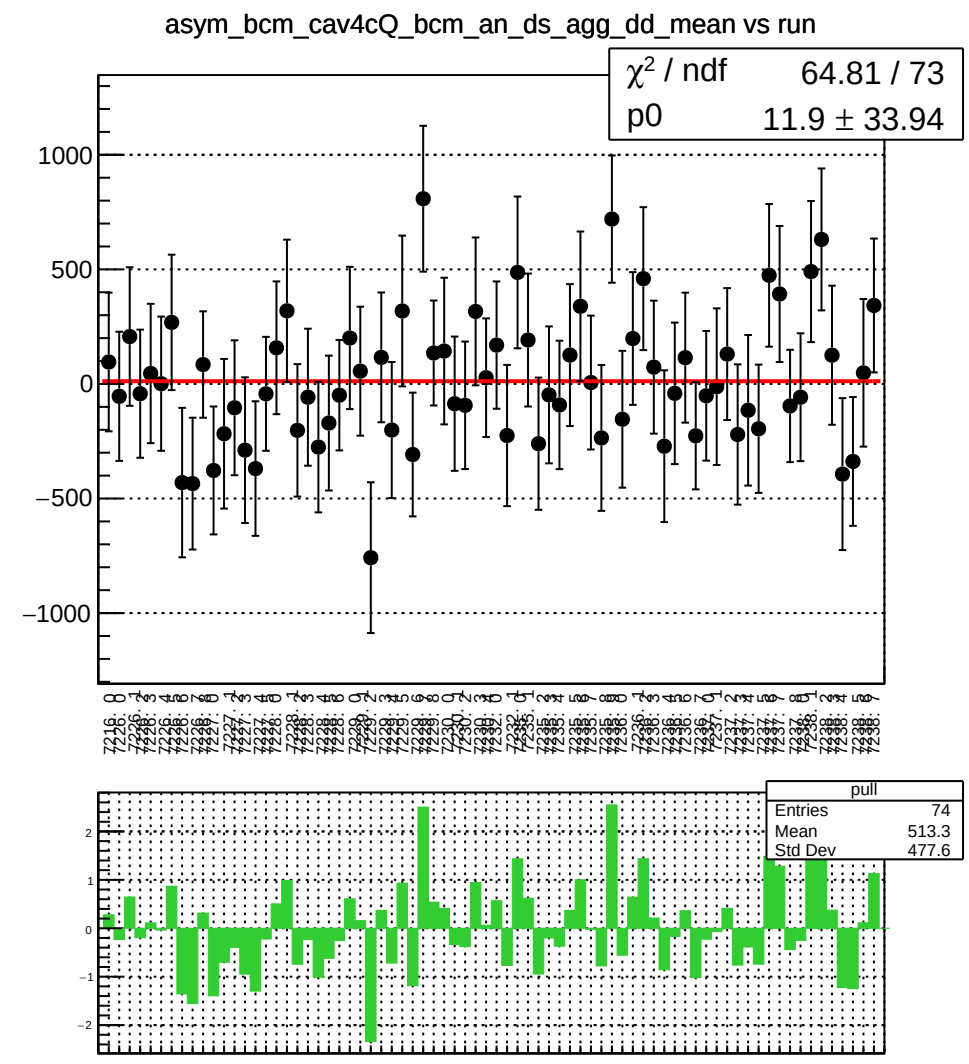

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.84 / 73
p0 9.648 ± 33.74
1000
500
0
−500
−1000
pull
Entries 74
Mean 1074
Std Dev 1042
pull1D
Entries 74
Mean 0.003084
Std Dev 1.019

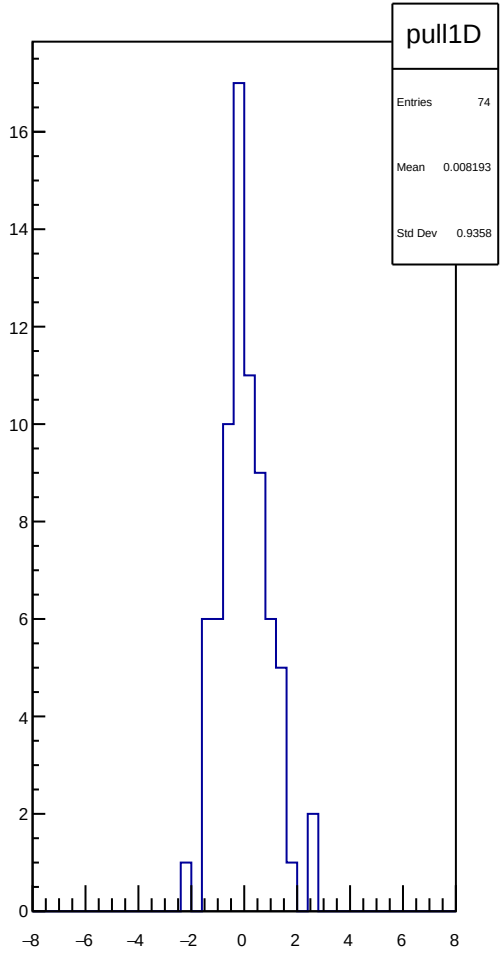

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4624 / 73
p0 28.29 ± 0.02386
33
32
31
30
29
28
27
26
25

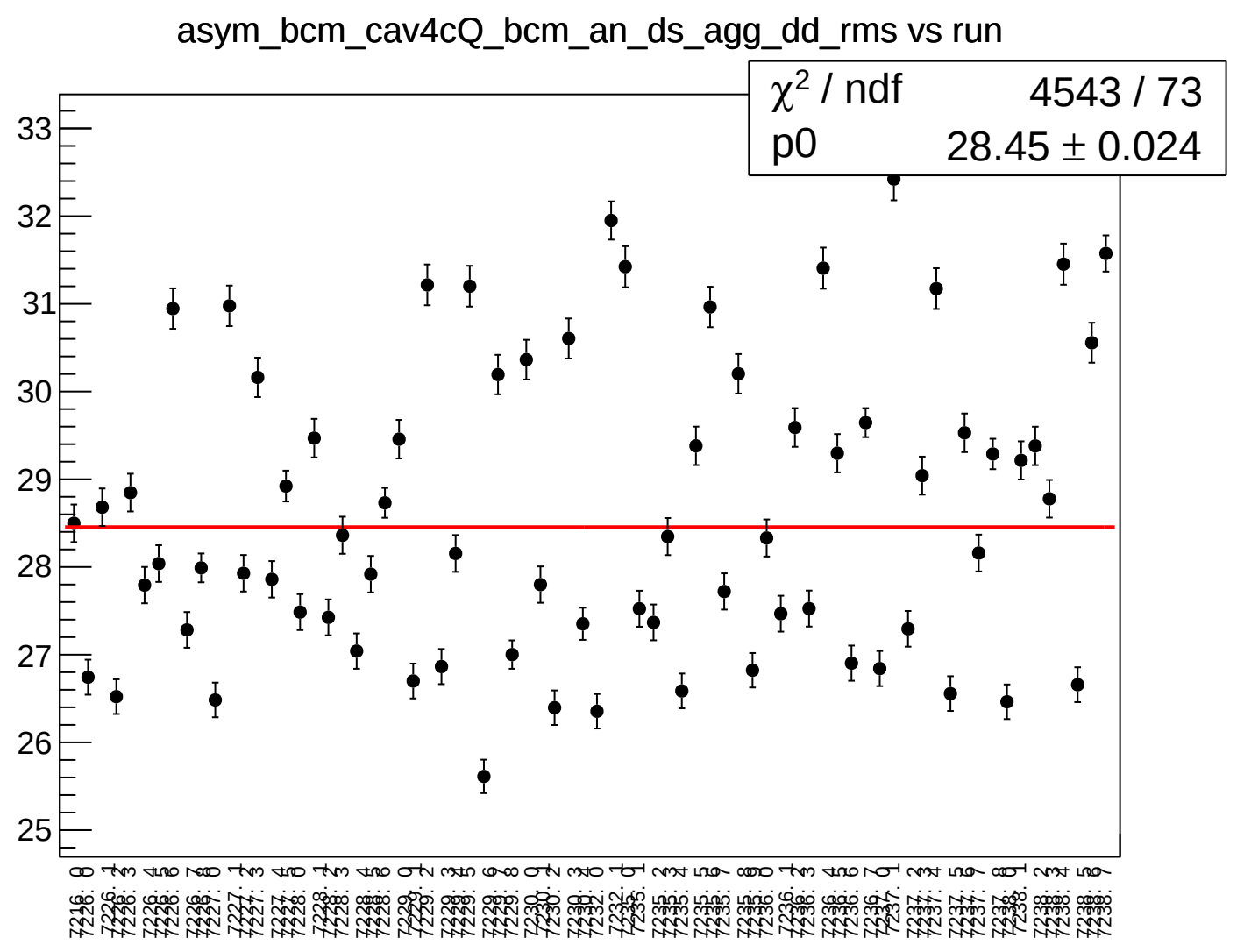

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.47 / 73
p0 155.7 ± 234.8
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 570.4
Std Dev 537.3
1
0.5
0
−0.5
−1

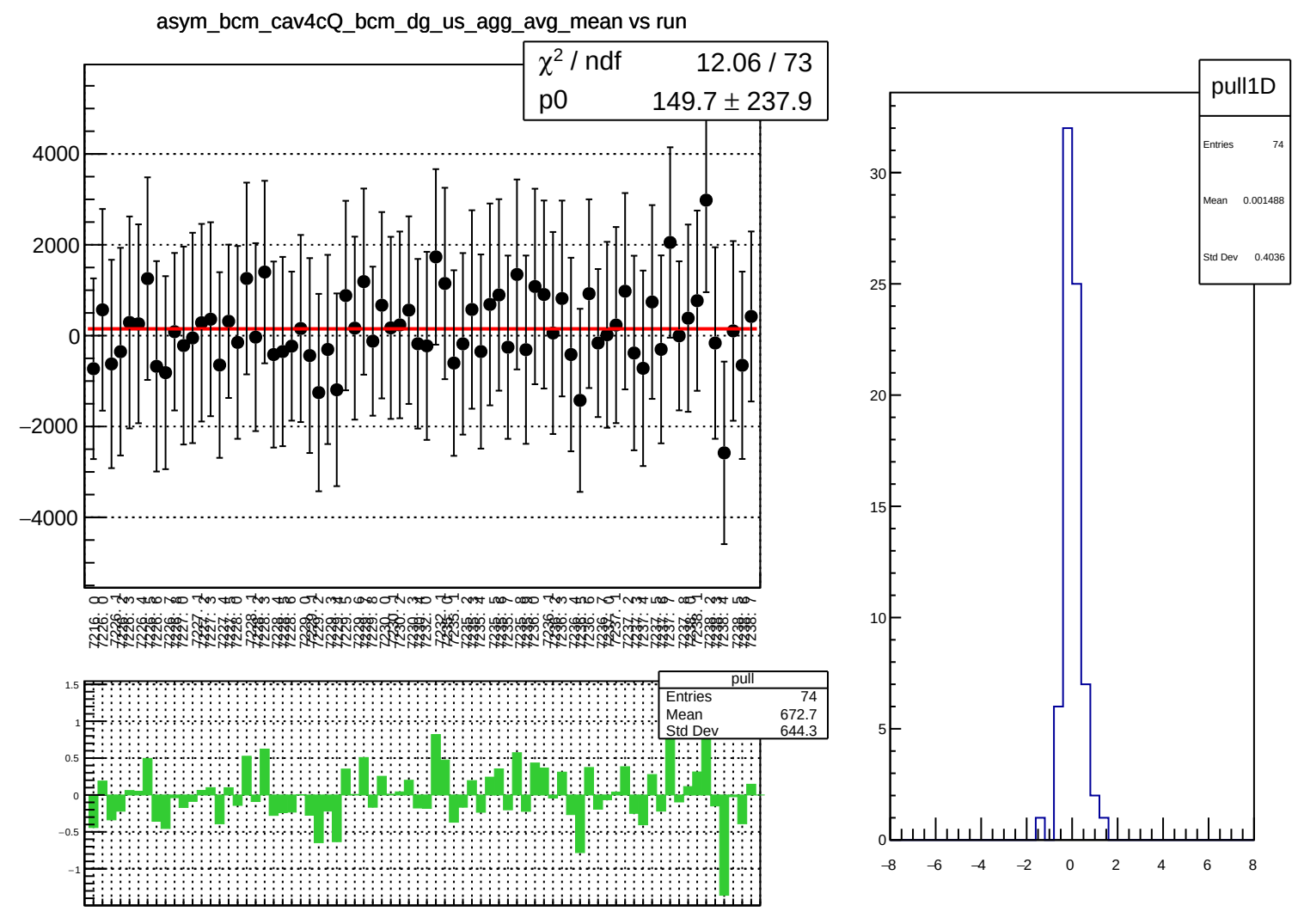

pull1D
Entries 74
Mean 0.001852
Std Dev 0.3937
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

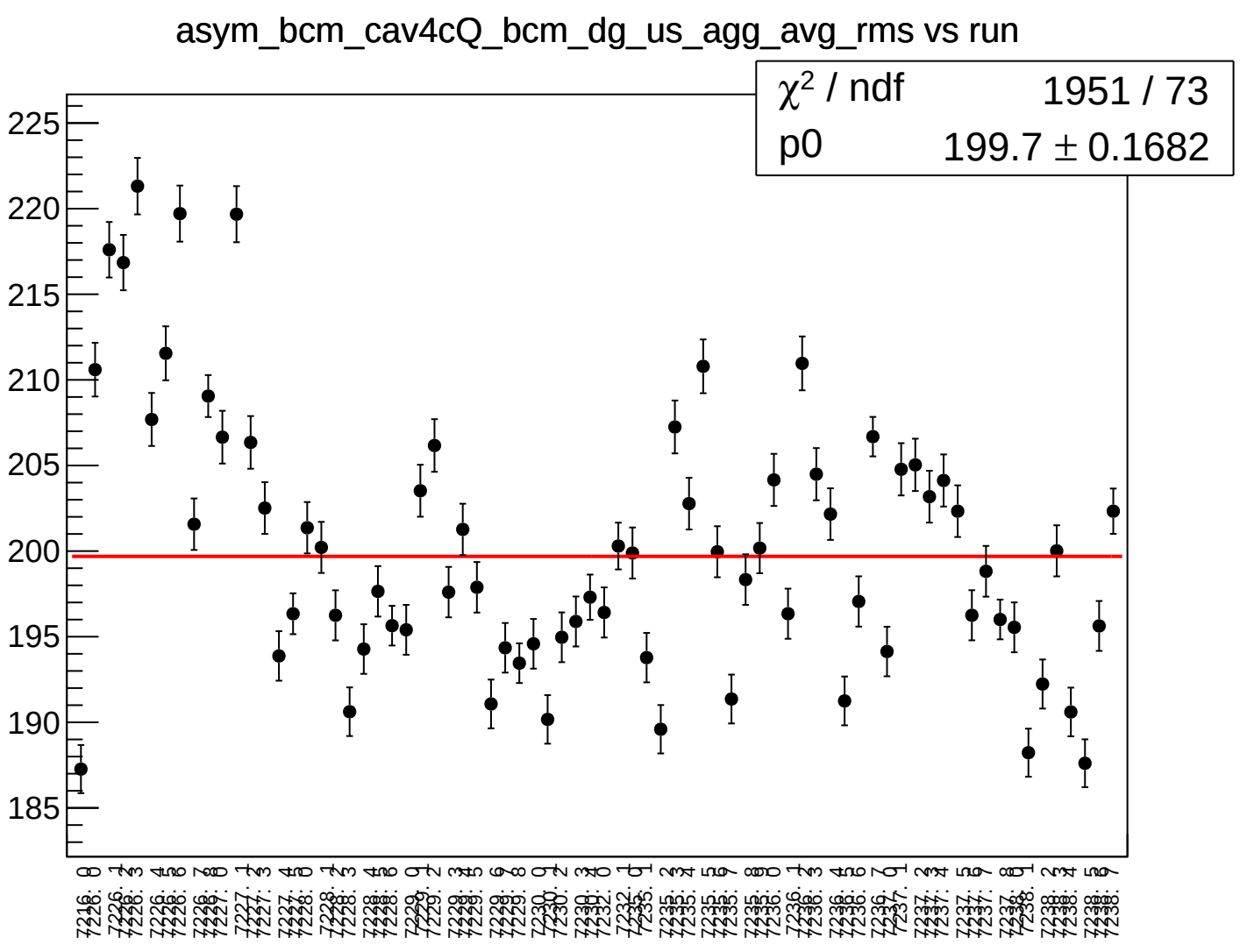

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2013 / 73
p0 197.1 ± 0.1661
220
215
210
205
200
195
190
185
180

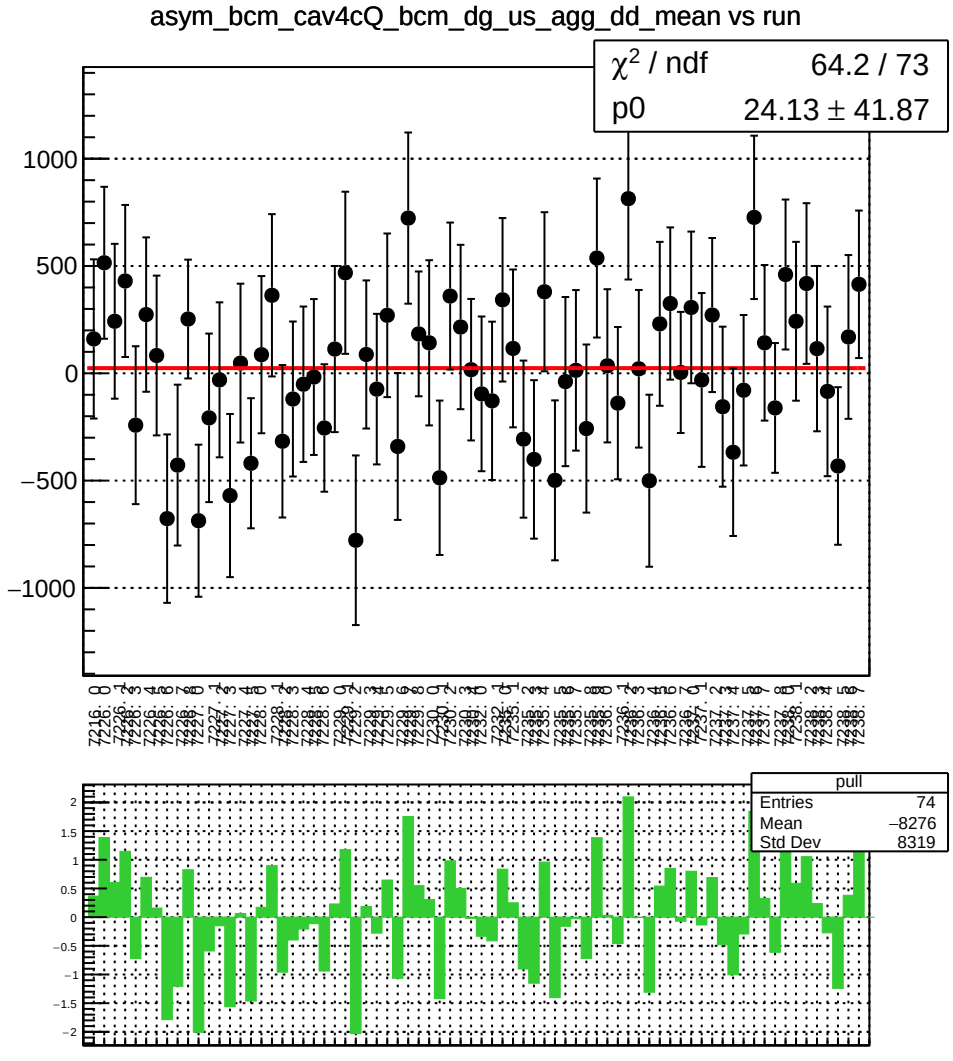

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.81 / 73
p0 11.9 ± 33.94
1000
500
0
−500
−1000
pull
Entries 74
Mean 513.3
Std Dev 477.6
2
1
0
−1
−2

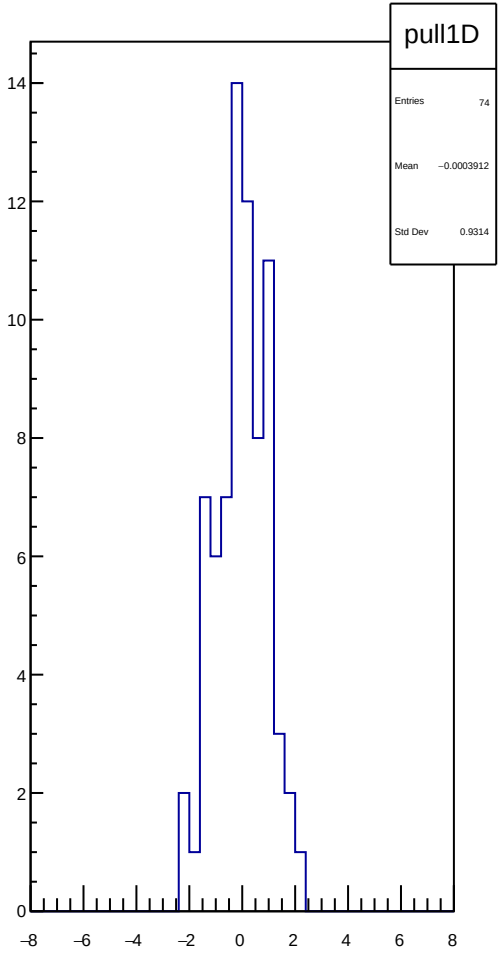

pull1D
Entries 74
Mean 0.008193
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

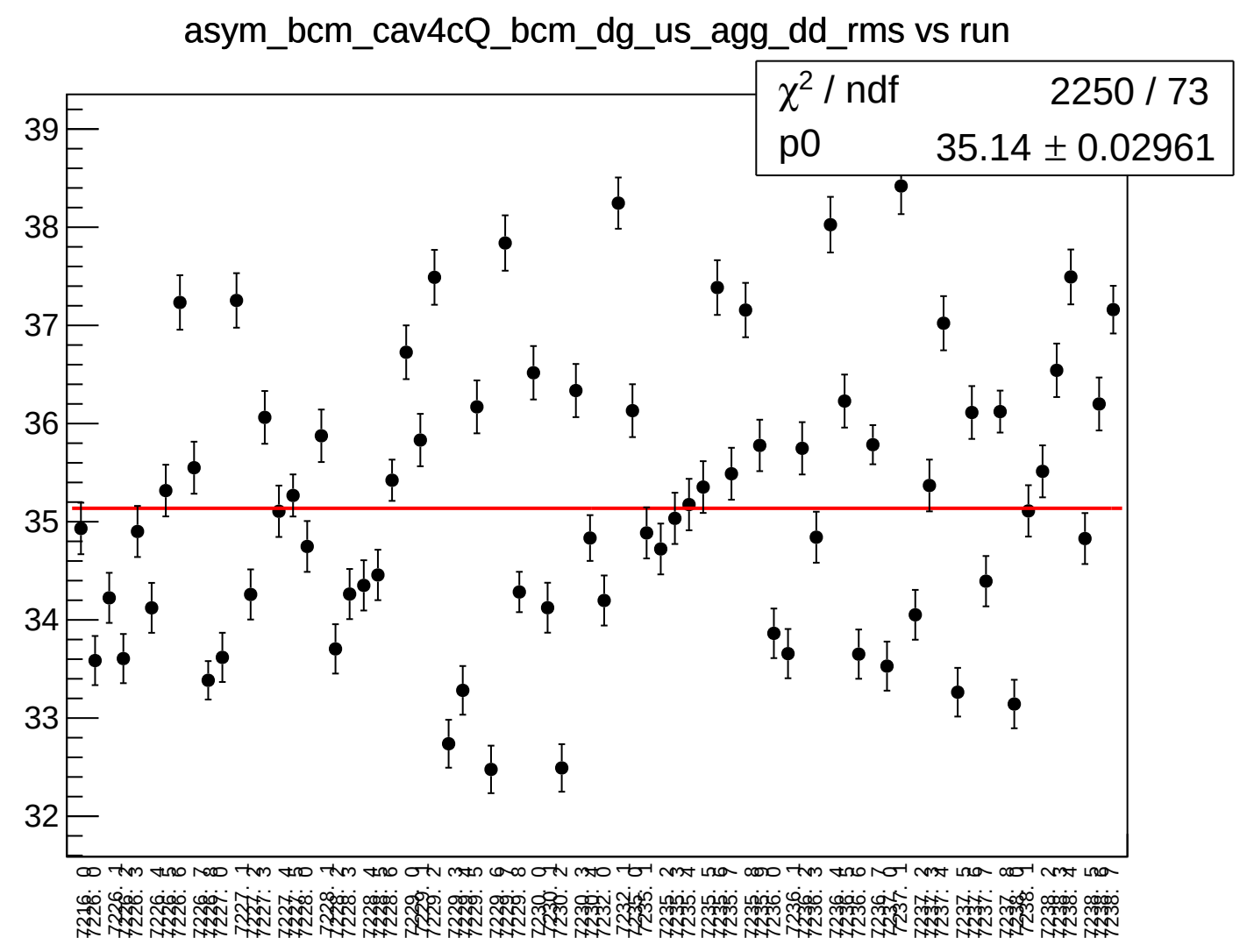

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4543 / 73
p0 28.45 ± 0.024
33
32
31
30
29
28
27
26
25

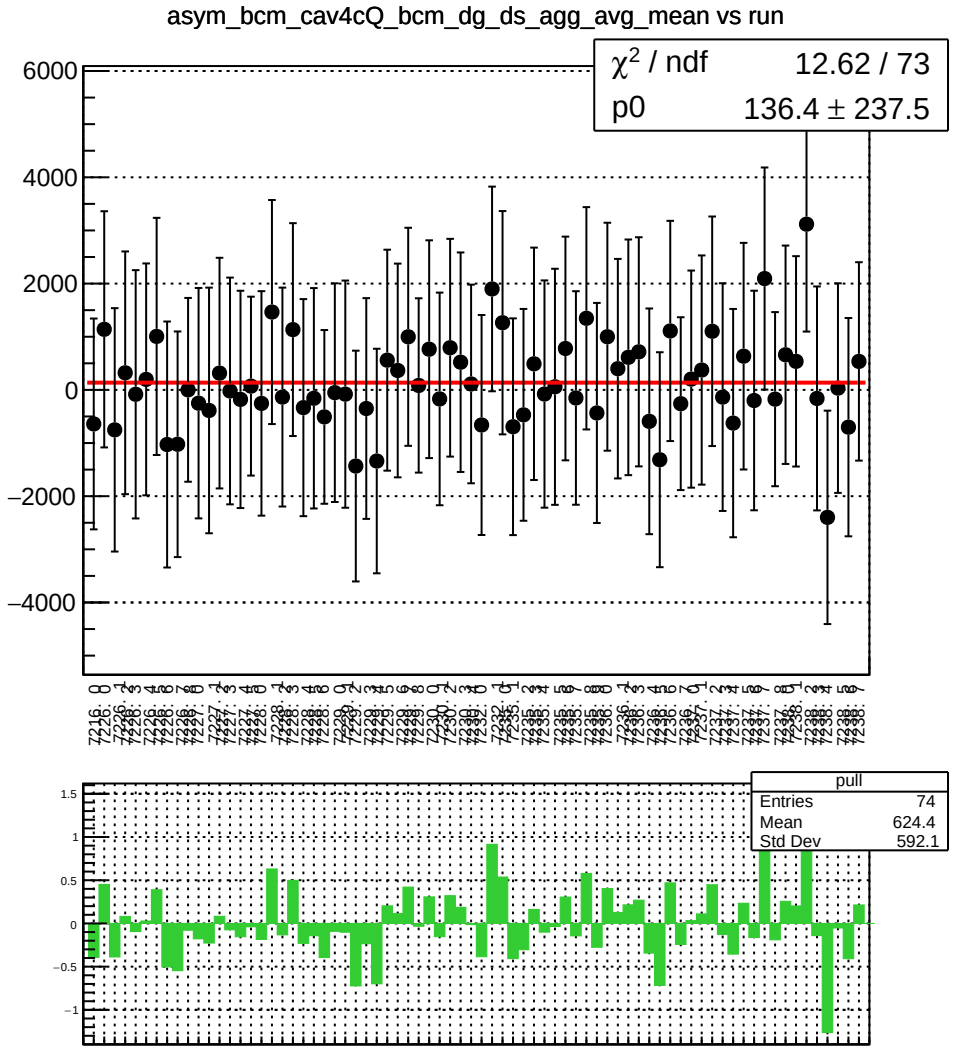

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.06 / 73
p0 149.7 ± 237.9
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 672.7
Std Dev 644.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 74
Mean 0.001488
Std Dev 0.4036
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

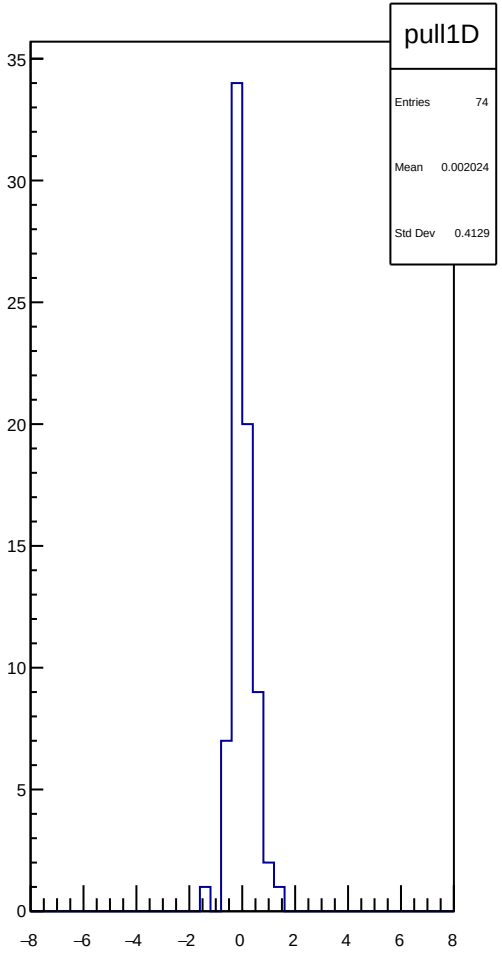

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1951 / 73
p0 199.7 ± 0.1682
225
220
215
210
205
200
195
190
185

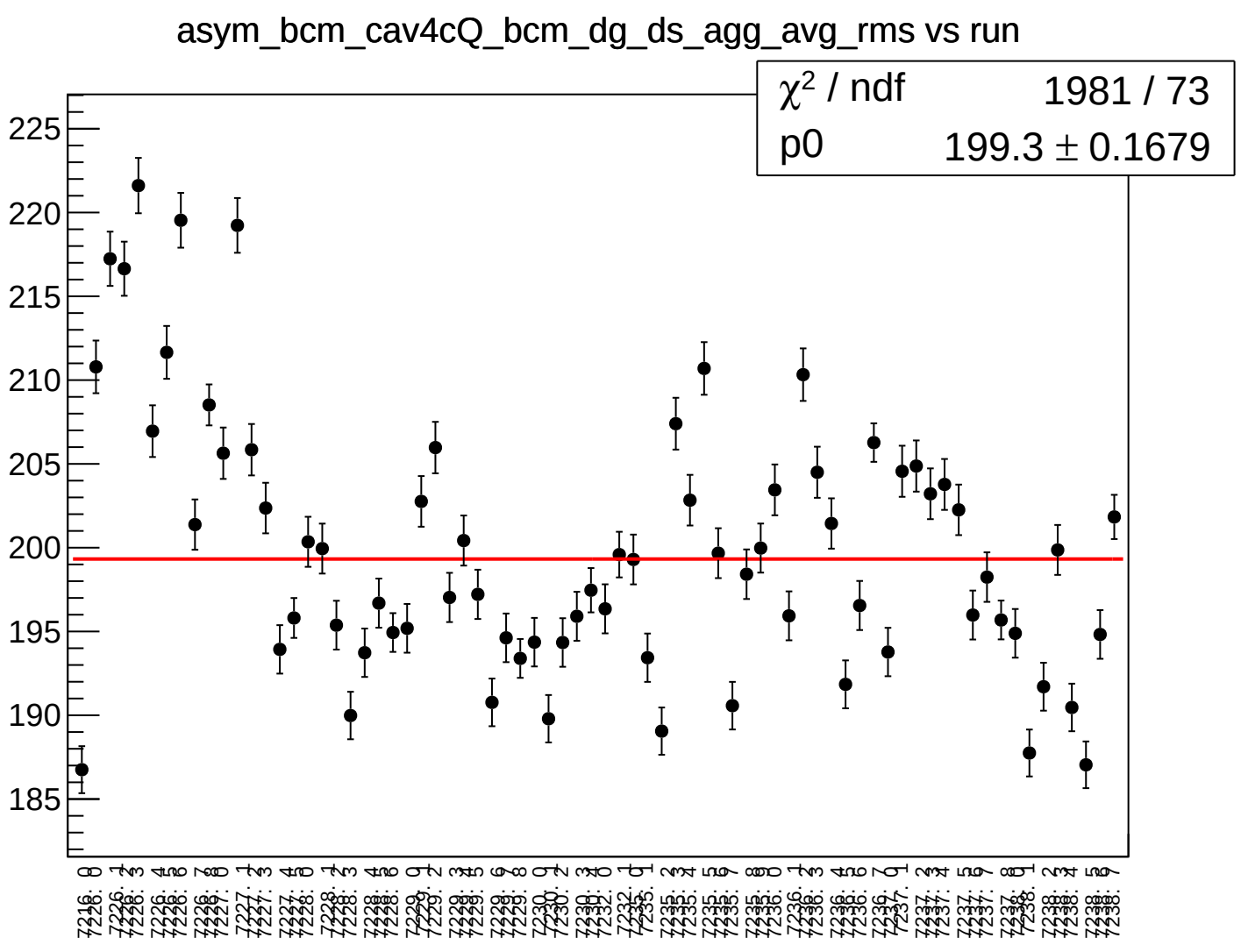

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 64.2 / 73
p0 24.13 ± 41.87
pull
Entries 74
Mean −8276
Std Dev 8319

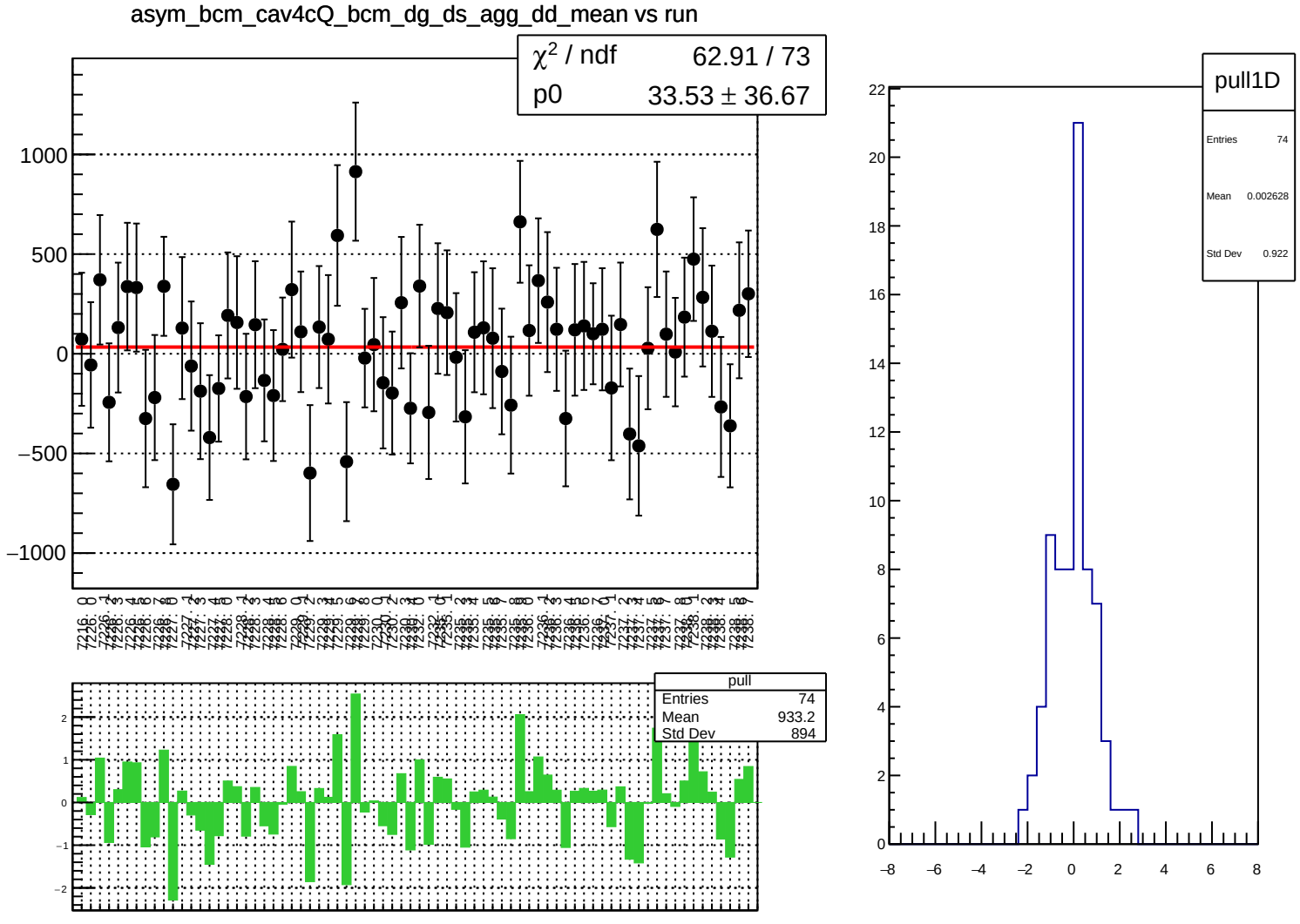

pull1D
Entries 74
Mean −0.0003912
Std Dev 0.9314

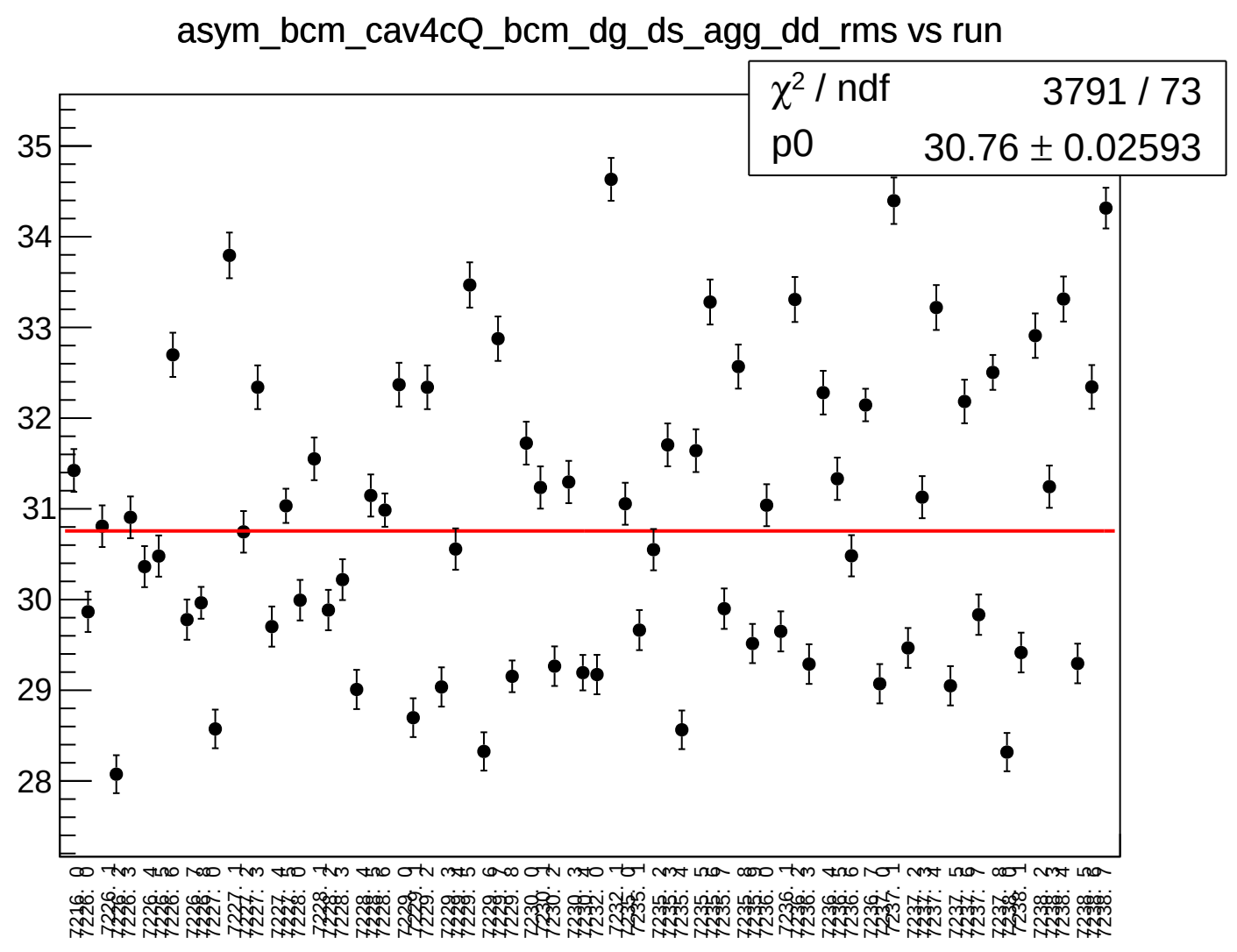

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2250 / 73
p0 35.14 ± 0.02961
39
38
37
36
35
34
33
32

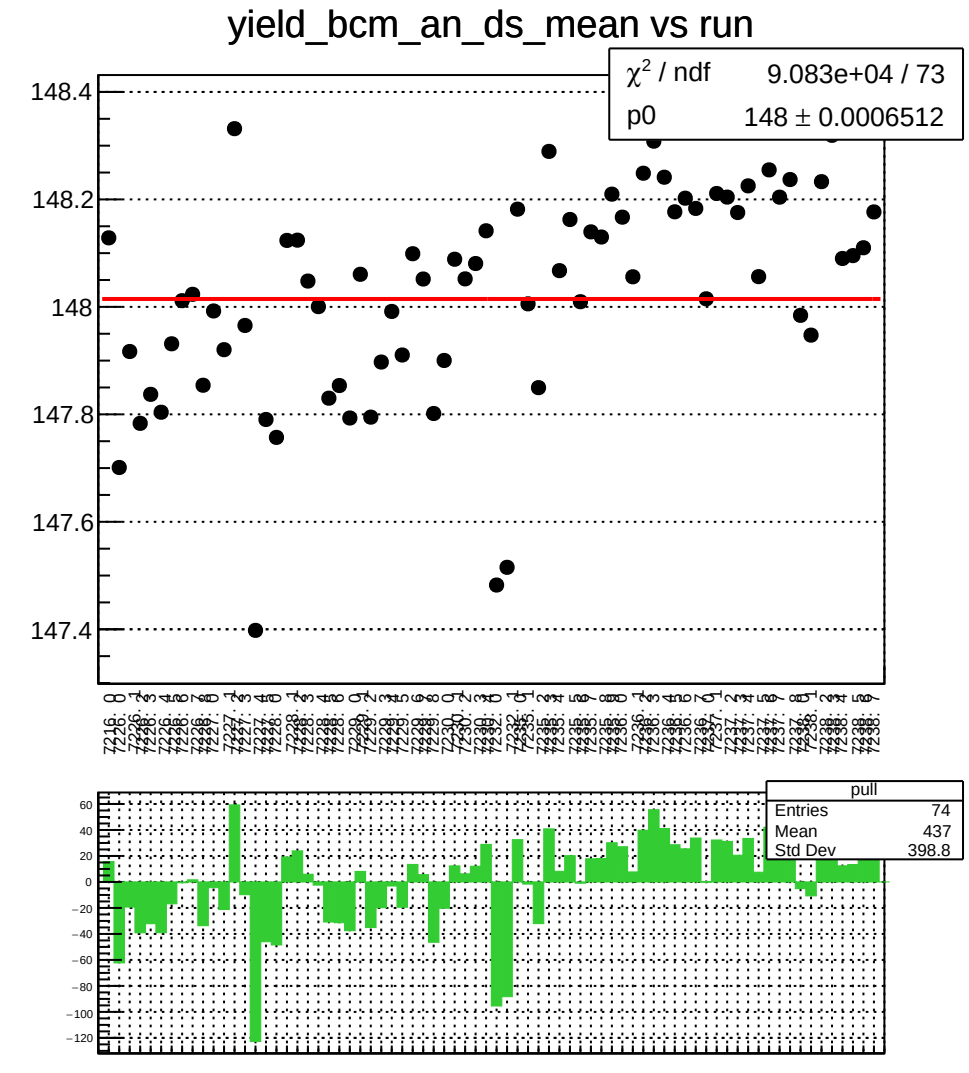

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.62 / 73
p0 136.4 ± 237.5
pull
Entries 74
Mean 624.4
Std Dev 592.1

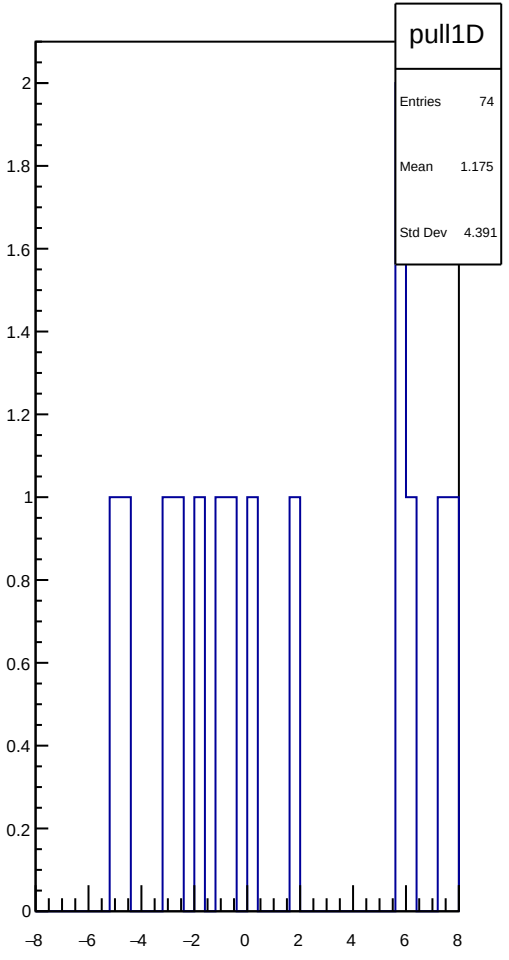

pull1D
Entries 74
Mean 0.002024
Std Dev 0.4129

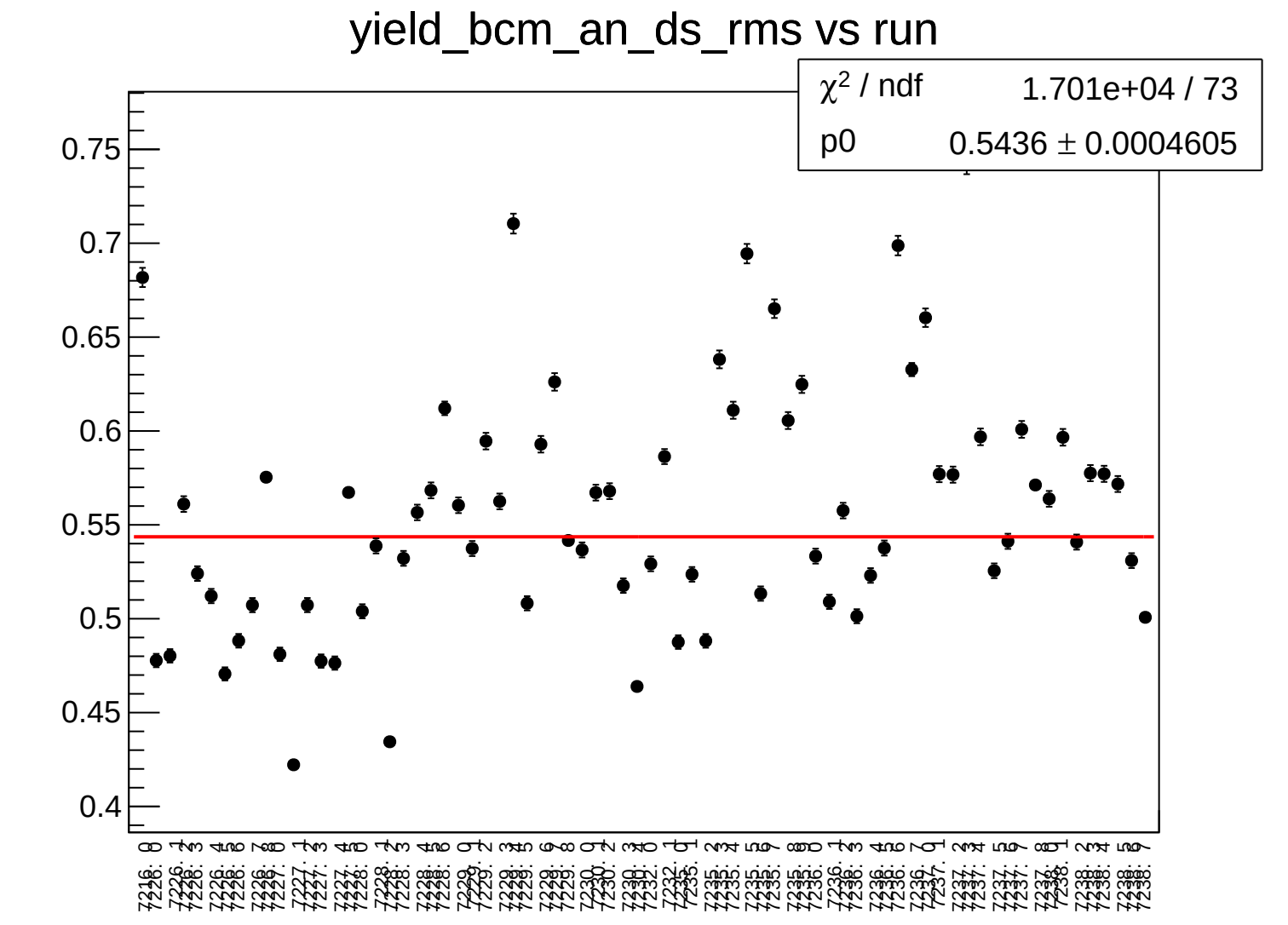

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1981 / 73
p0 199.3 ± 0.1679
225
220
215
210
205
200
195
190
185

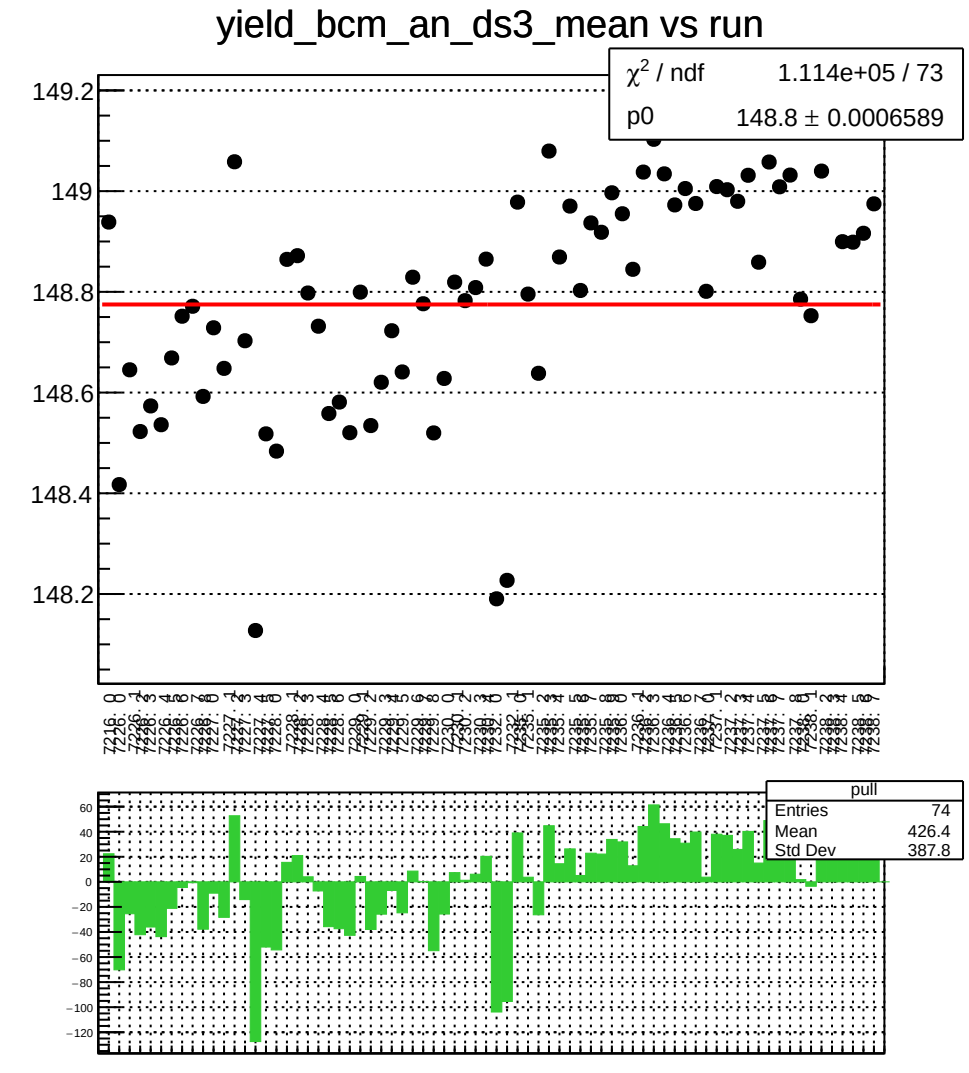

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 62.91 / 73
p0 33.53 ± 36.67
1000
500
0
−500
−1000
pull
Entries 74
Mean 933.2
Std Dev 894
pull1D
Entries 74
Mean 0.002628
Std Dev 0.922

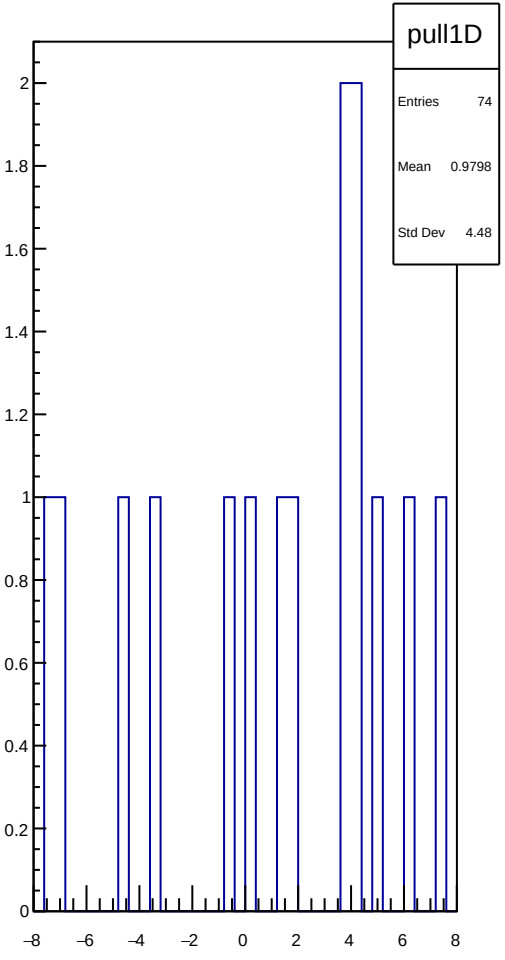

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3791 / 73
p0 30.76 ± 0.02593
35
34
33
32
31
30
29
28

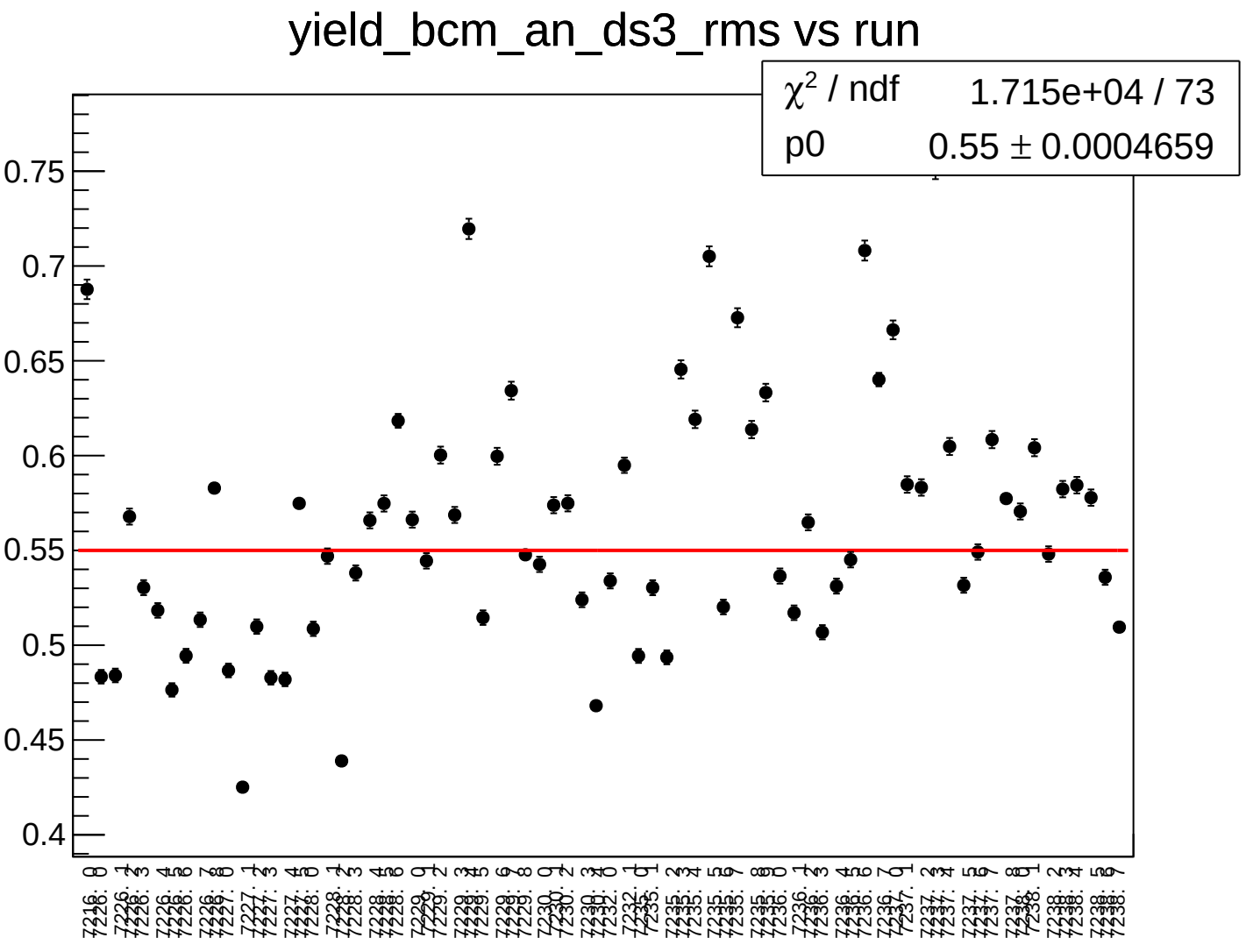

yield_bcm_an_ds_mean vs run
χ² / ndf 9.083e+04 / 73
p0 148 ± 0.0006512
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 74
Mean 437
Std Dev 398.8
60
40
20
0
−20
−40
−60
−80
−100
−120

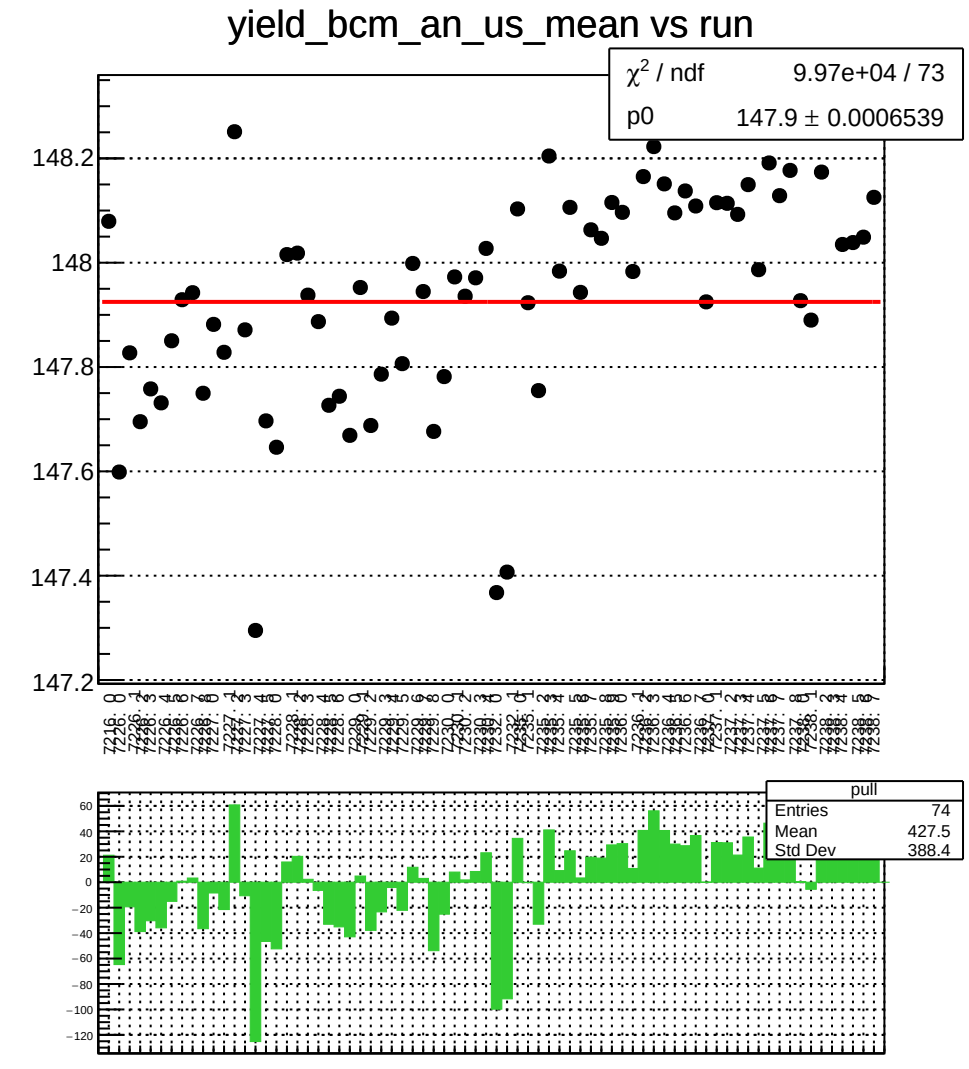

pull1D
Entries 74
Mean 1.175
Std Dev 4.391
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

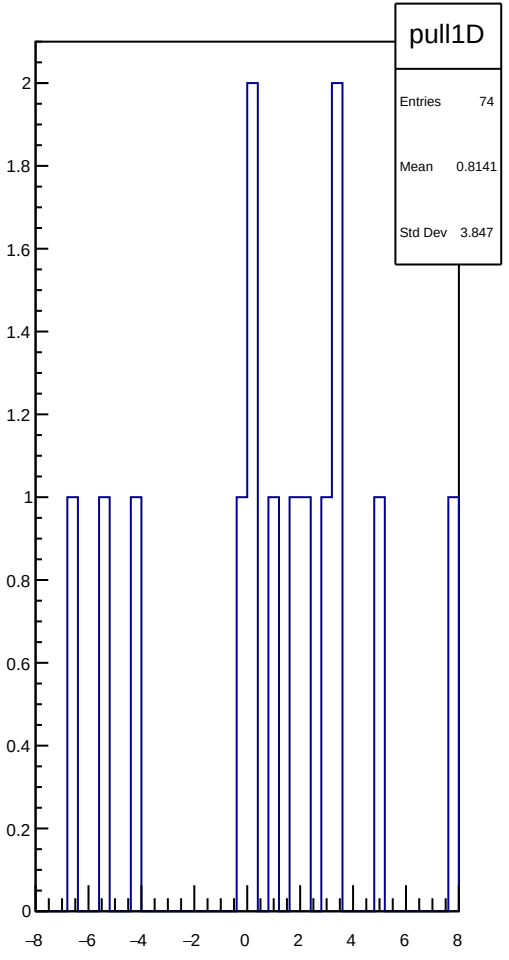

yield_bcm_an_ds_rms vs run
χ² / ndf 1.701e+04 / 73
p0 0.5436 ± 0.0004605
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

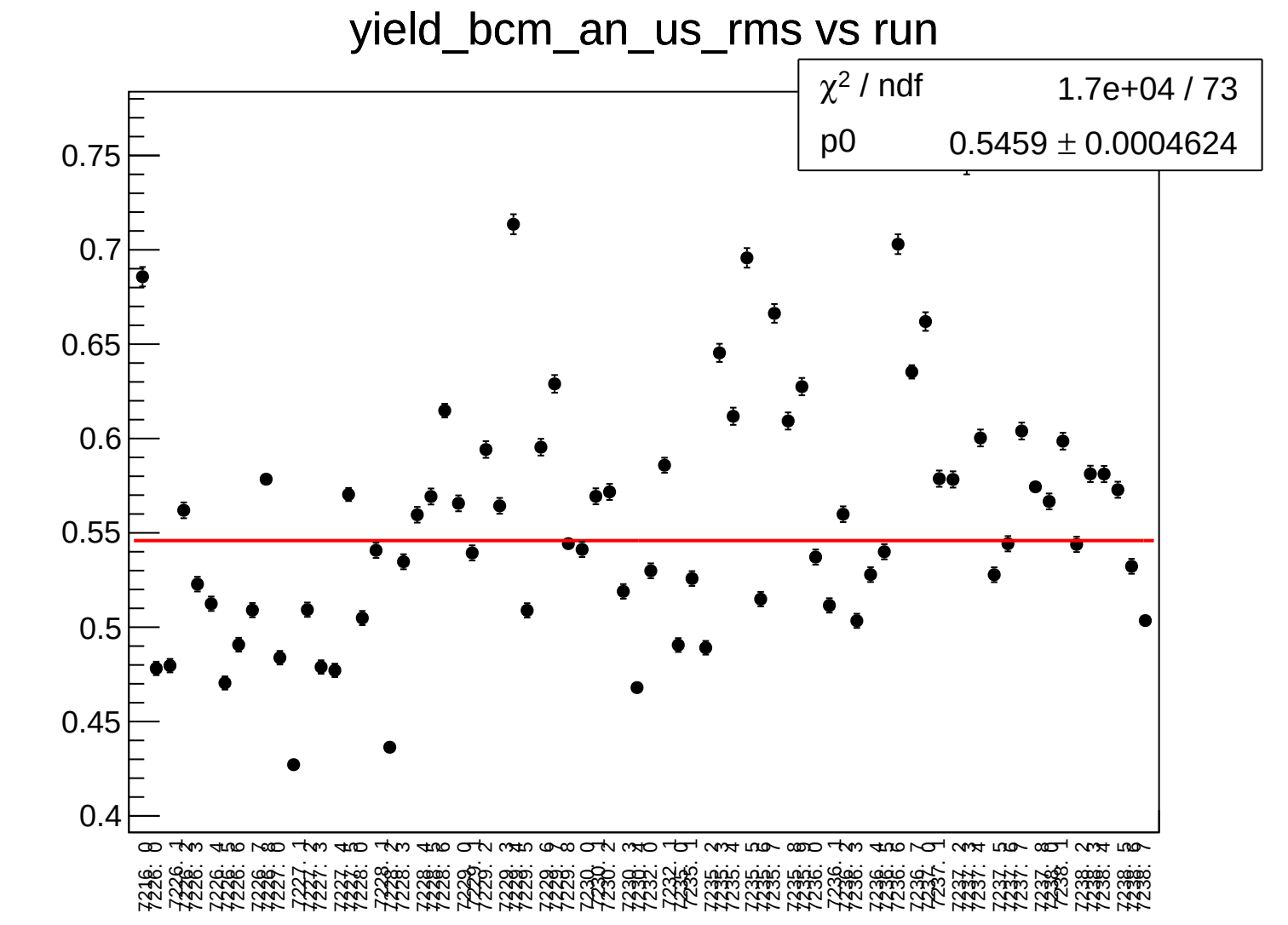

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.114e+05 / 73
p0 148.8 ± 0.0006589
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 74
Mean 426.4
Std Dev 387.8
60
40
20
0
−20
−40
−60
−80
−100
−120

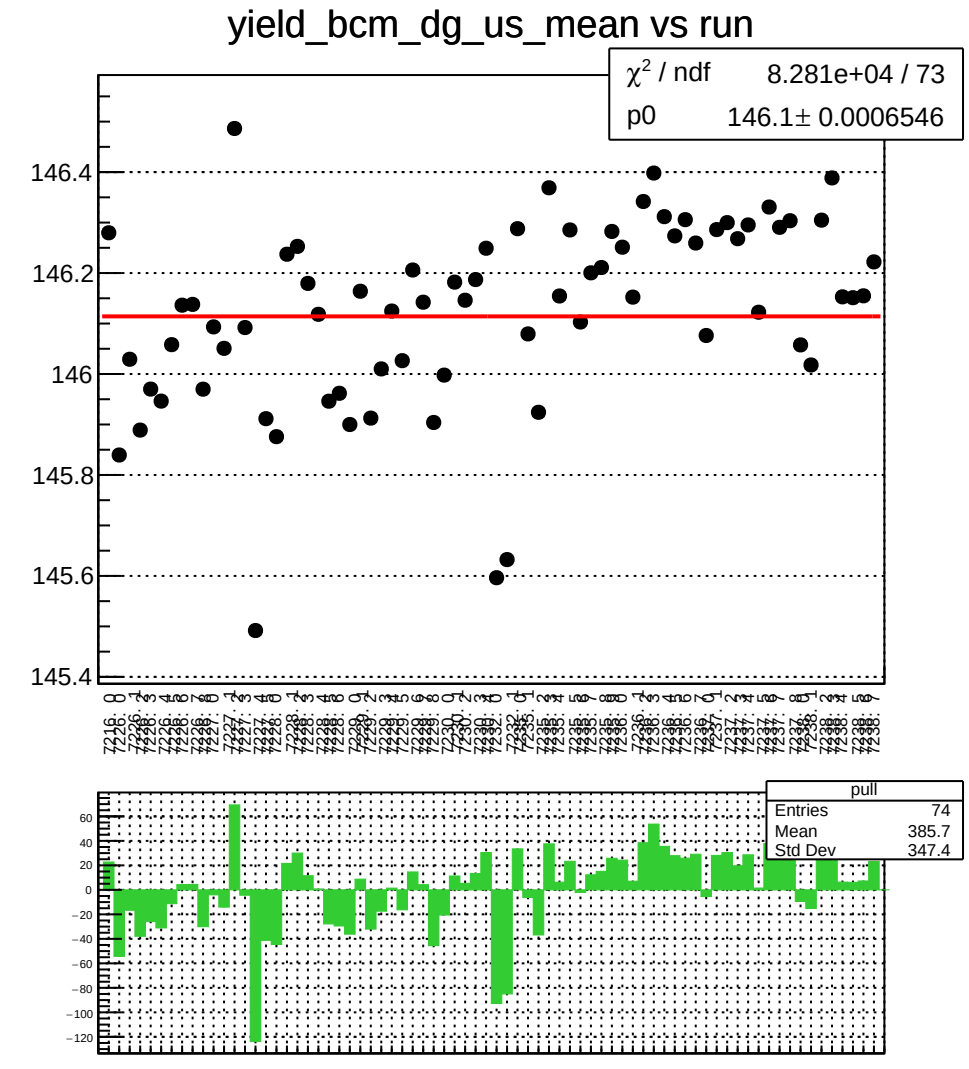

pull1D
Entries 74
Mean 0.9798
Std Dev 4.48
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

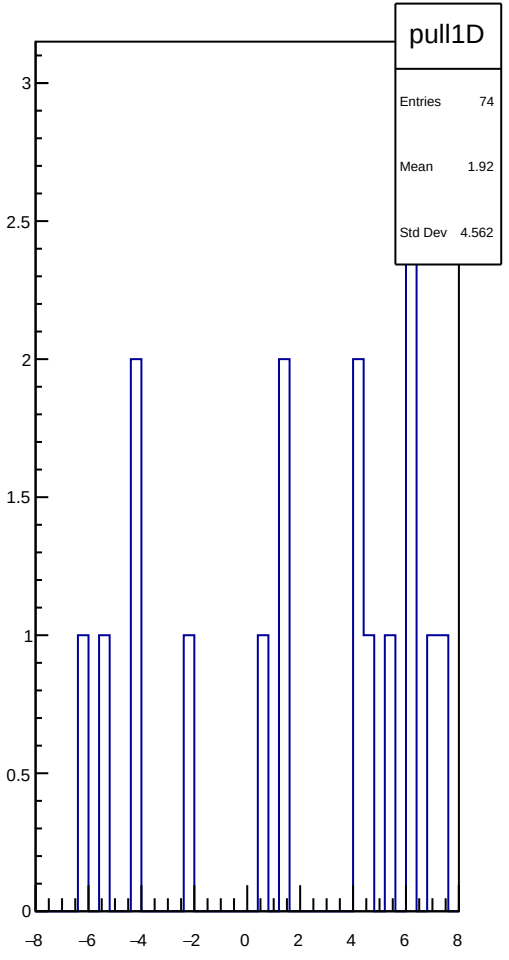

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 1.715e+04 / 73
p0 0.55 ± 0.0004659
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

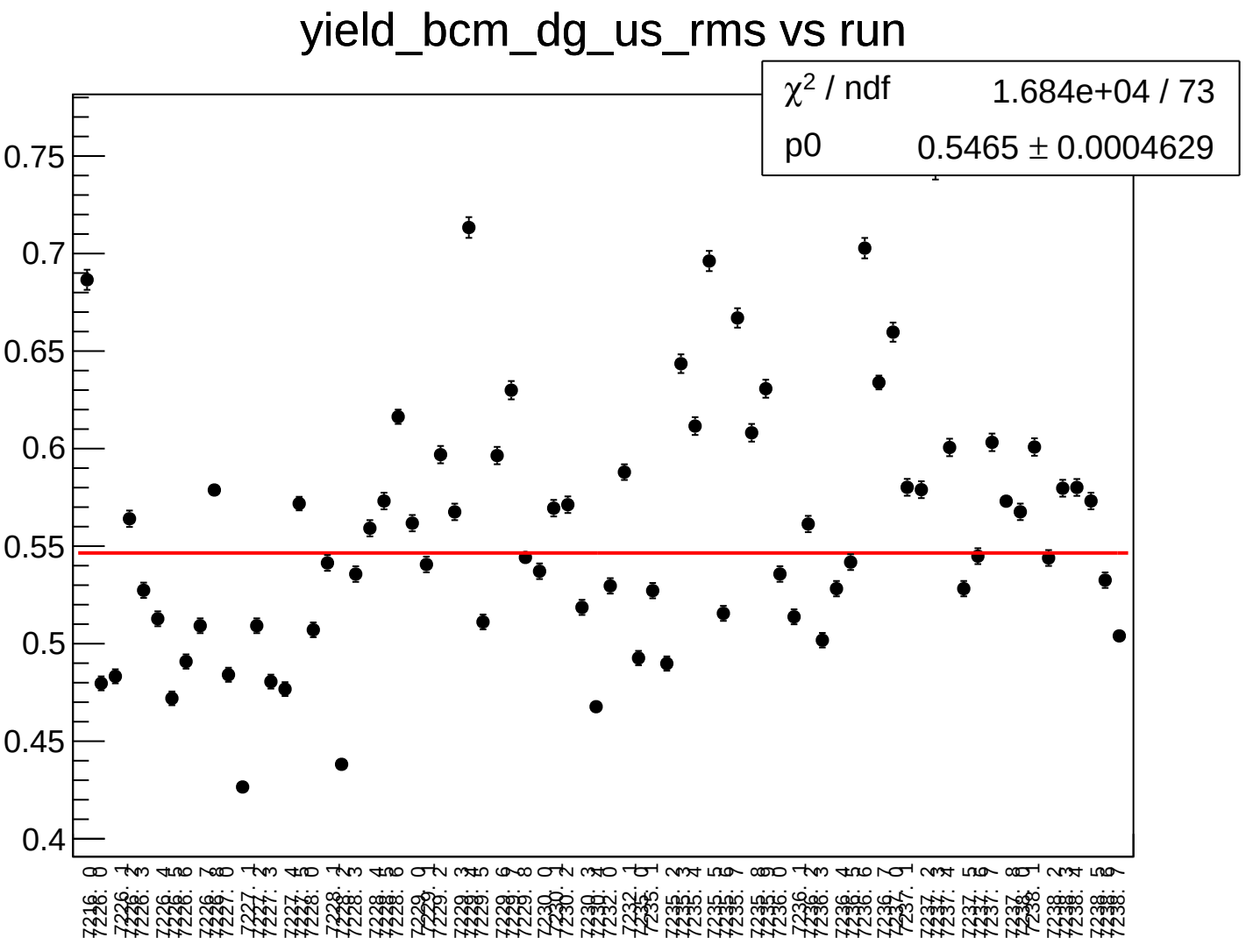

yield_bcm_an_us_mean vs run
χ² / ndf 9.97e+04 / 73
p0 147.9 ± 0.0006539
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 74
Mean 427.5
Std Dev 388.4
60
40
20
0
−20
−40
−60
−80
−100
−120

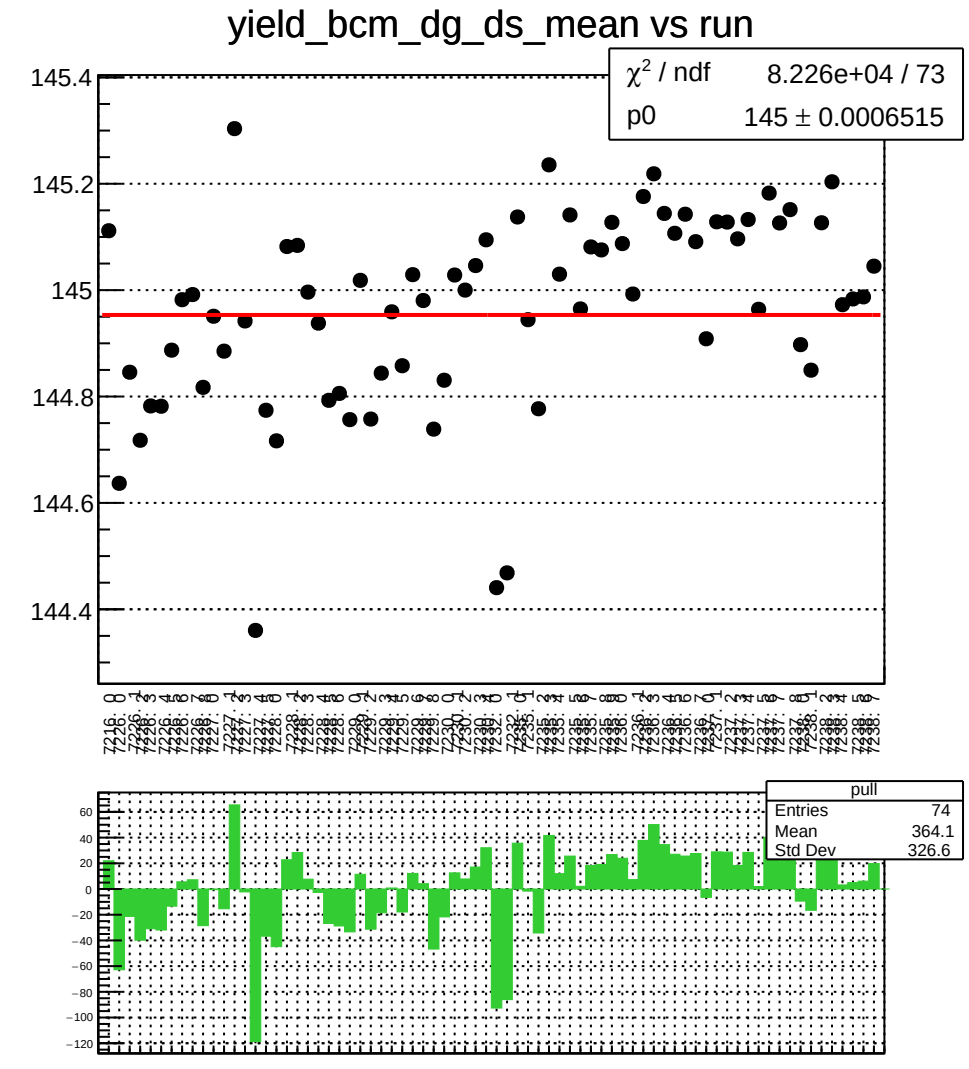

pull1D
Entries 74
Mean 0.8141
Std Dev 3.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

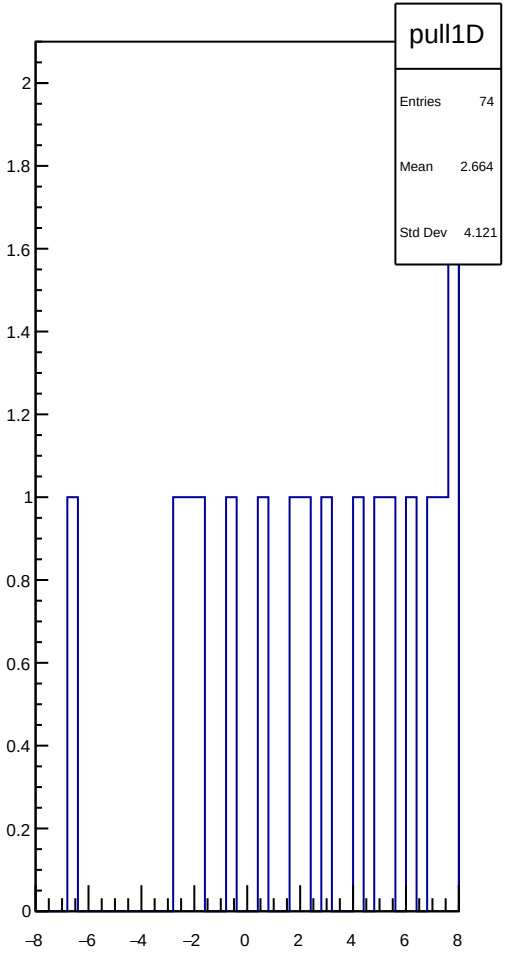

yield_bcm_an_us_rms vs run
χ² / ndf 1.7e+04 / 73
p0 0.5459 ± 0.0004624
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

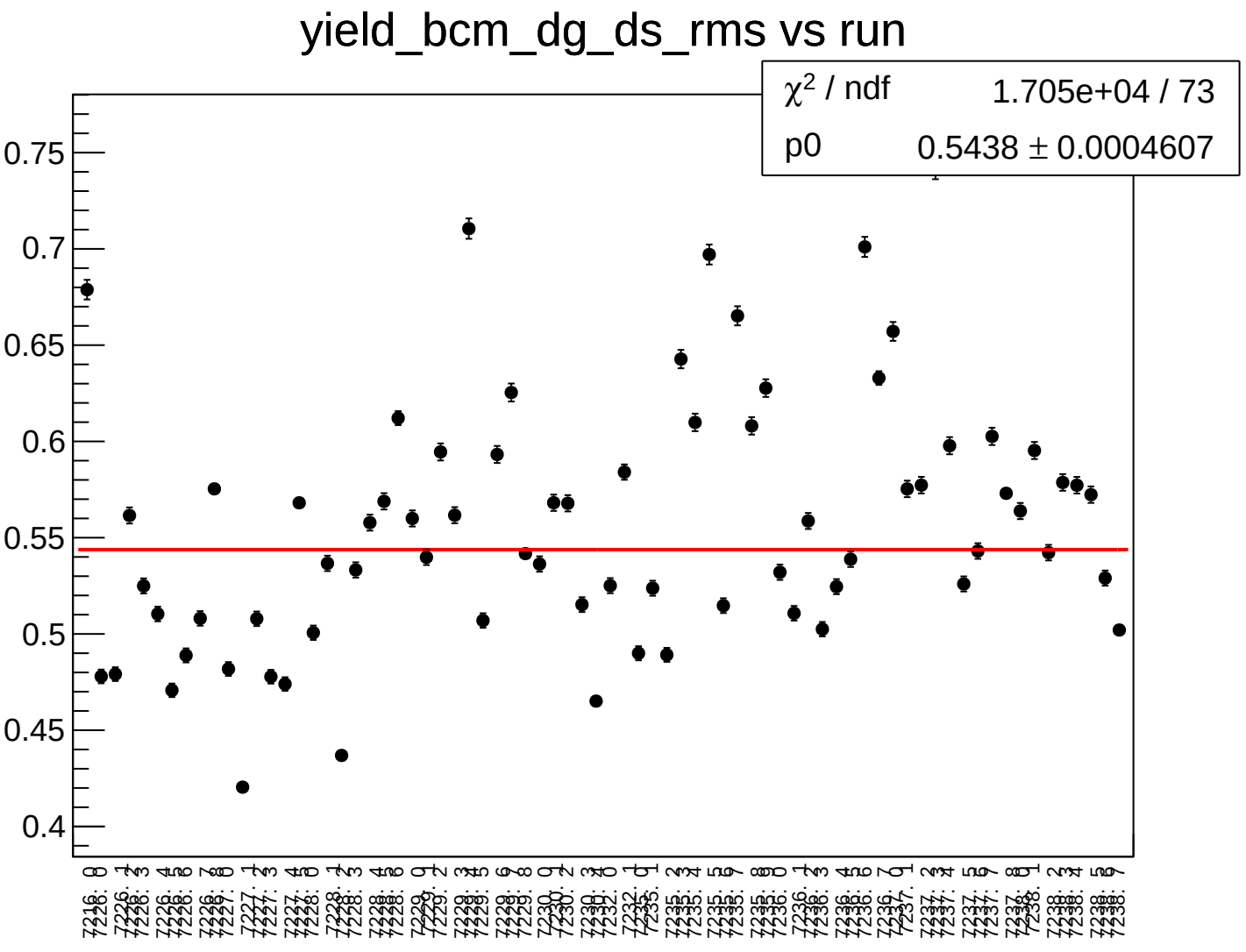

yield_bcm_dg_us_mean vs run
χ² / ndf 8.281e+04 / 73
p0 146.1± 0.0006546
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 74
Mean 385.7
Std Dev 347.4
60
40
20
0
−20
−40
−60
−80
−100
−120

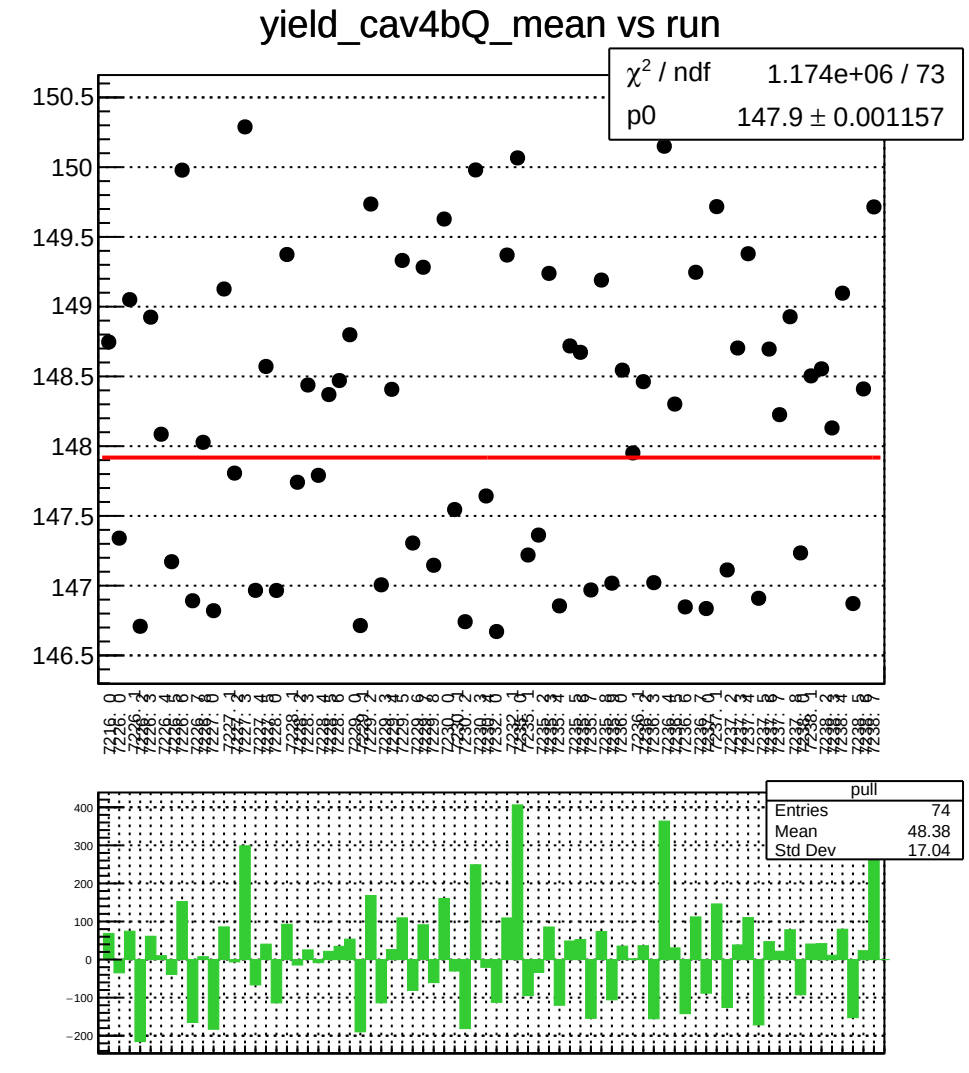

pull1D
Entries 74
Mean 1.92
Std Dev 4.562
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

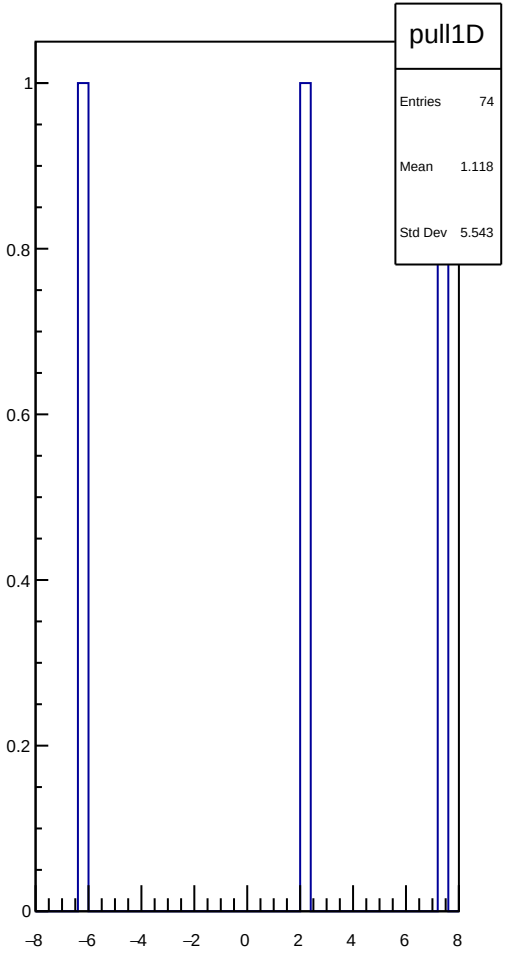

yield_bcm_dg_us_rms vs run
χ² / ndf 1.684e+04 / 73
p0 0.5465 ± 0.0004629
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

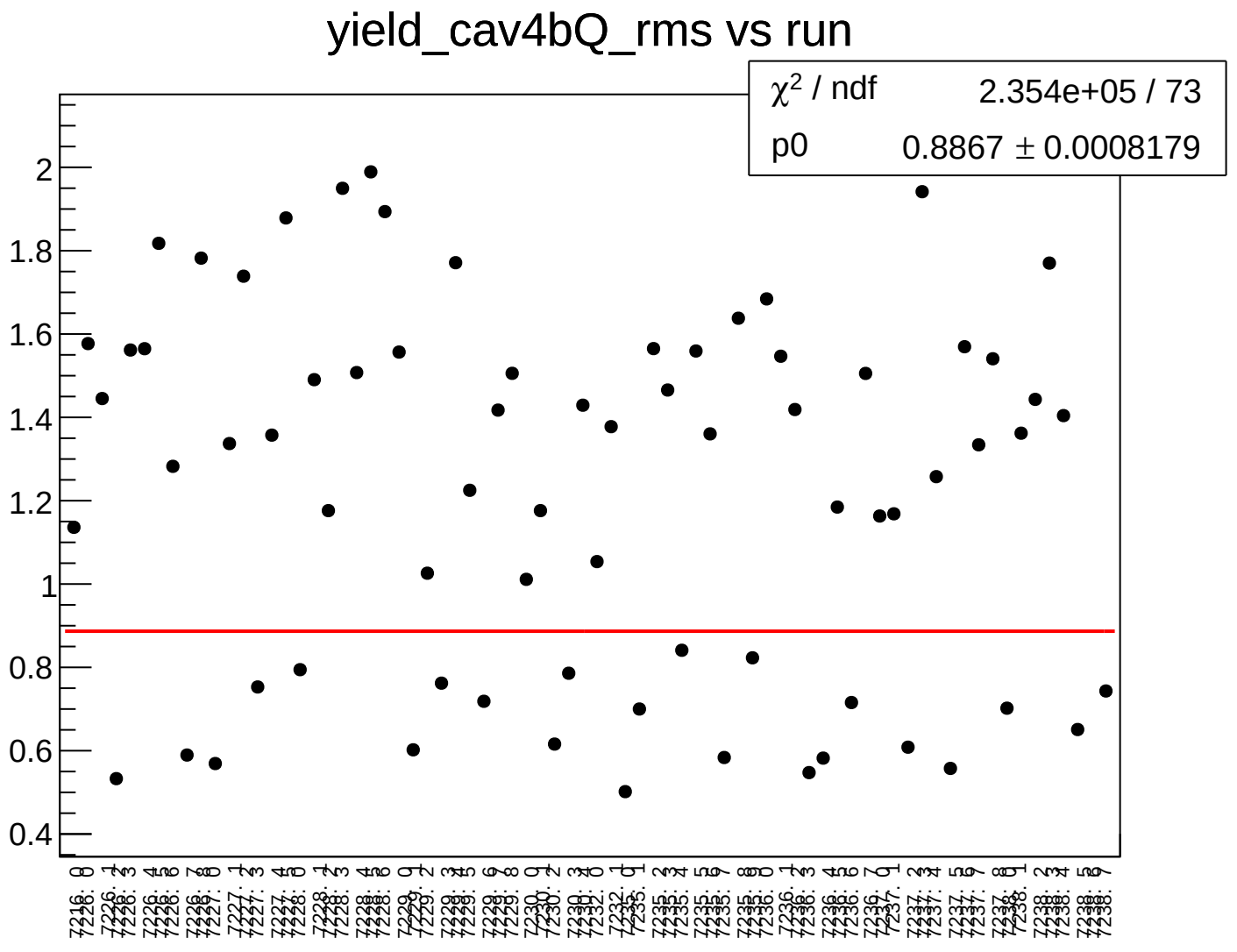

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.226e+04 / 73
p0 145 ± 0.0006515
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 74
Mean 364.1
Std Dev 326.6
60
40
20
0
−20
−40
−60
−80
−100
−120

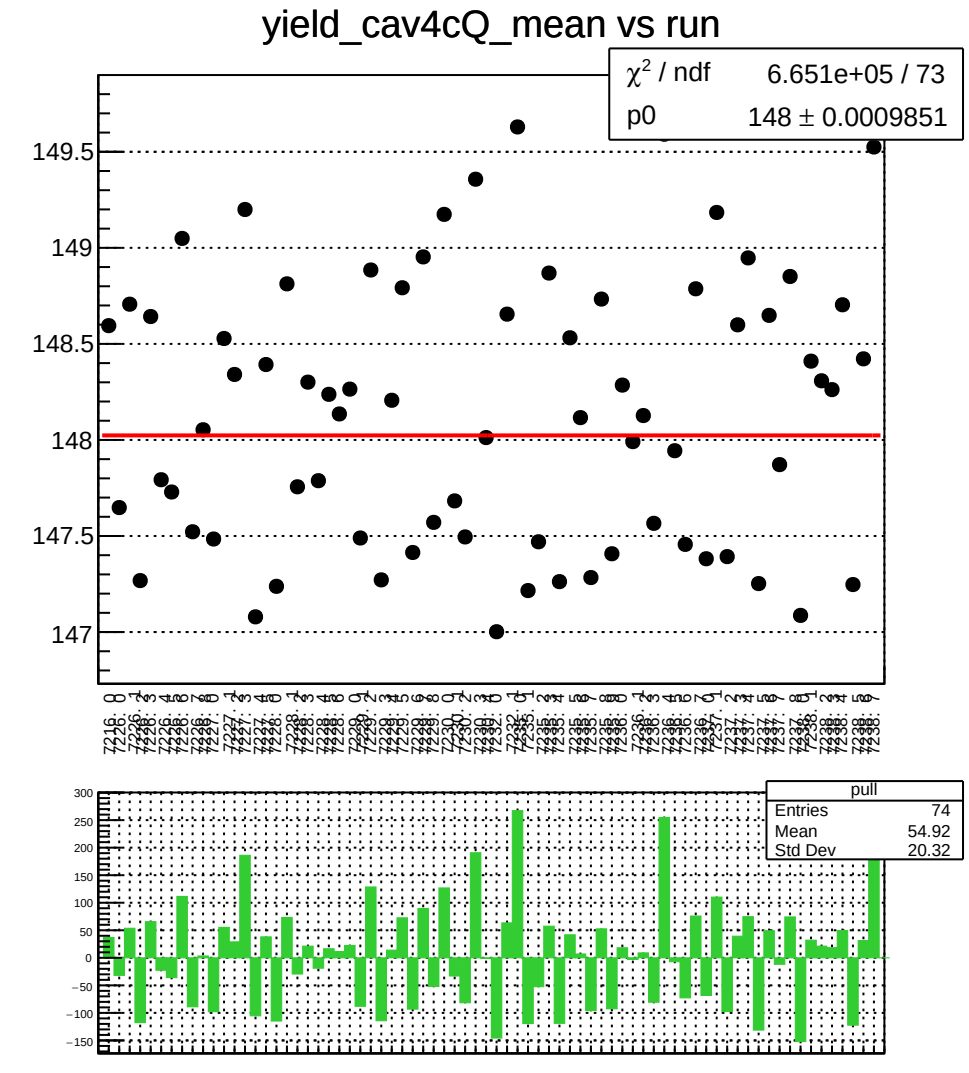

pull1D
Entries 74
Mean 2.664
Std Dev 4.121
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

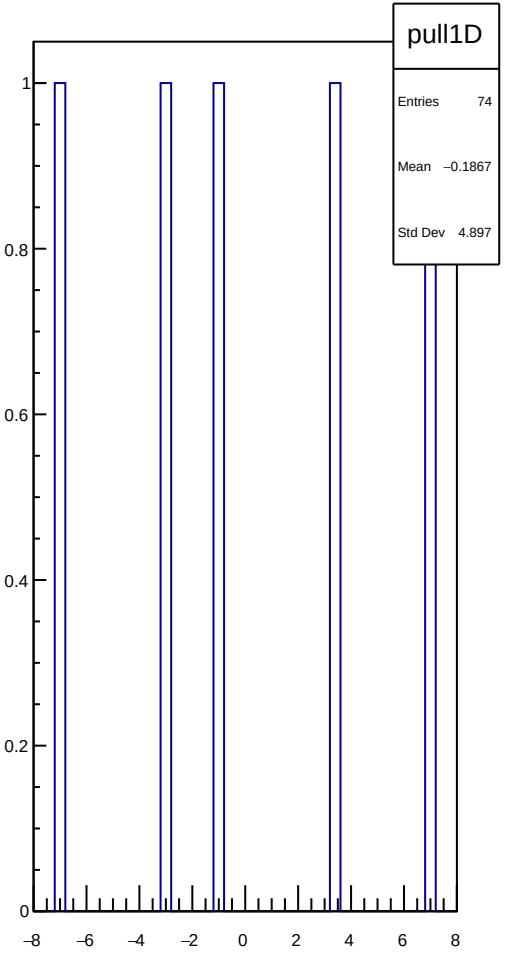

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.705e+04 / 73
p0 0.5438 ± 0.0004607
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

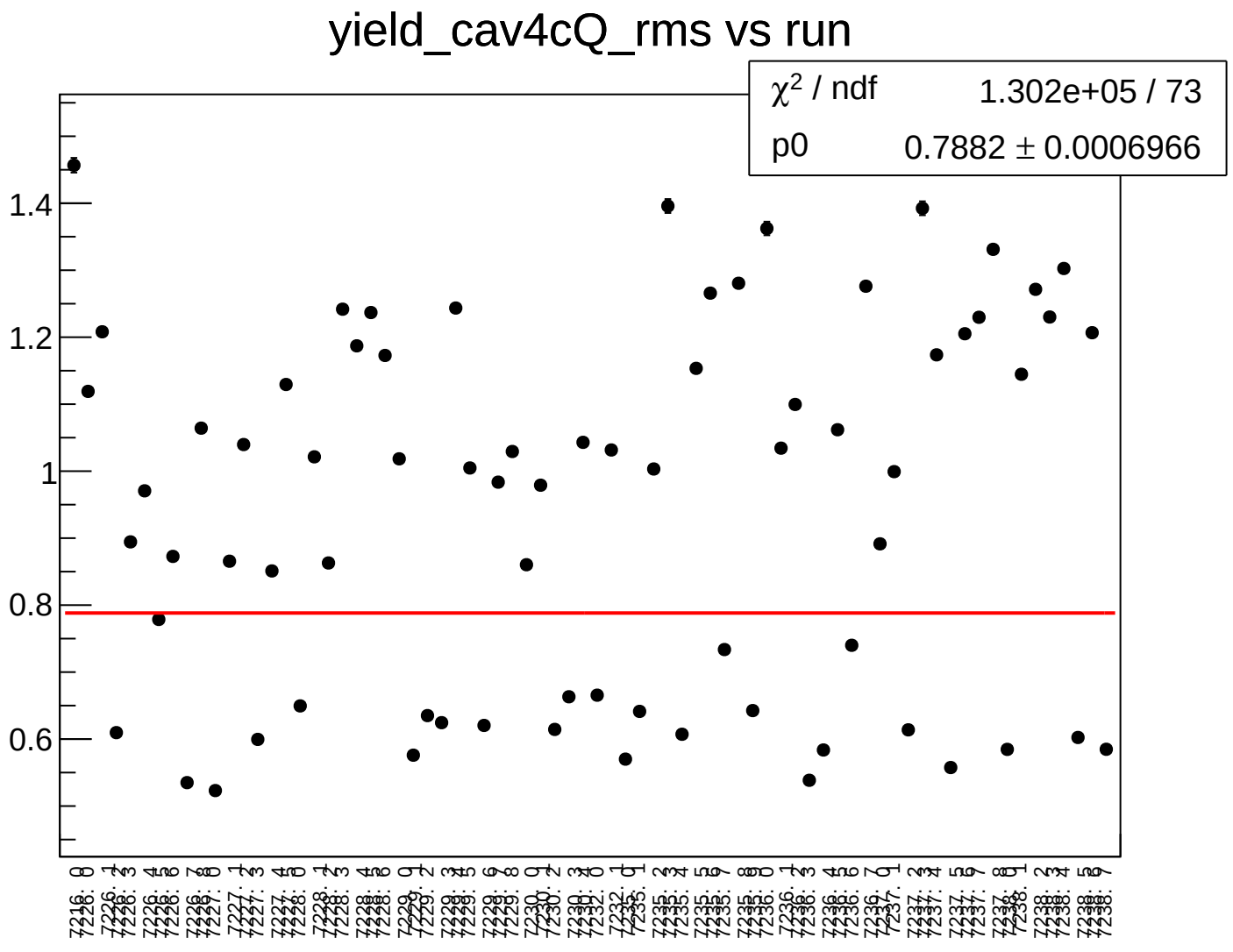

yield_cav4bQ_mean vs run
χ² / ndf 1.174e+06 / 73
p0 147.9 ± 0.001157
150.5
150
149.5
149
148.5
148
147.5
147
146.5
pull
Entries 74
Mean 48.38
Std Dev 17.04
400
300
200
100
0
−100
−200

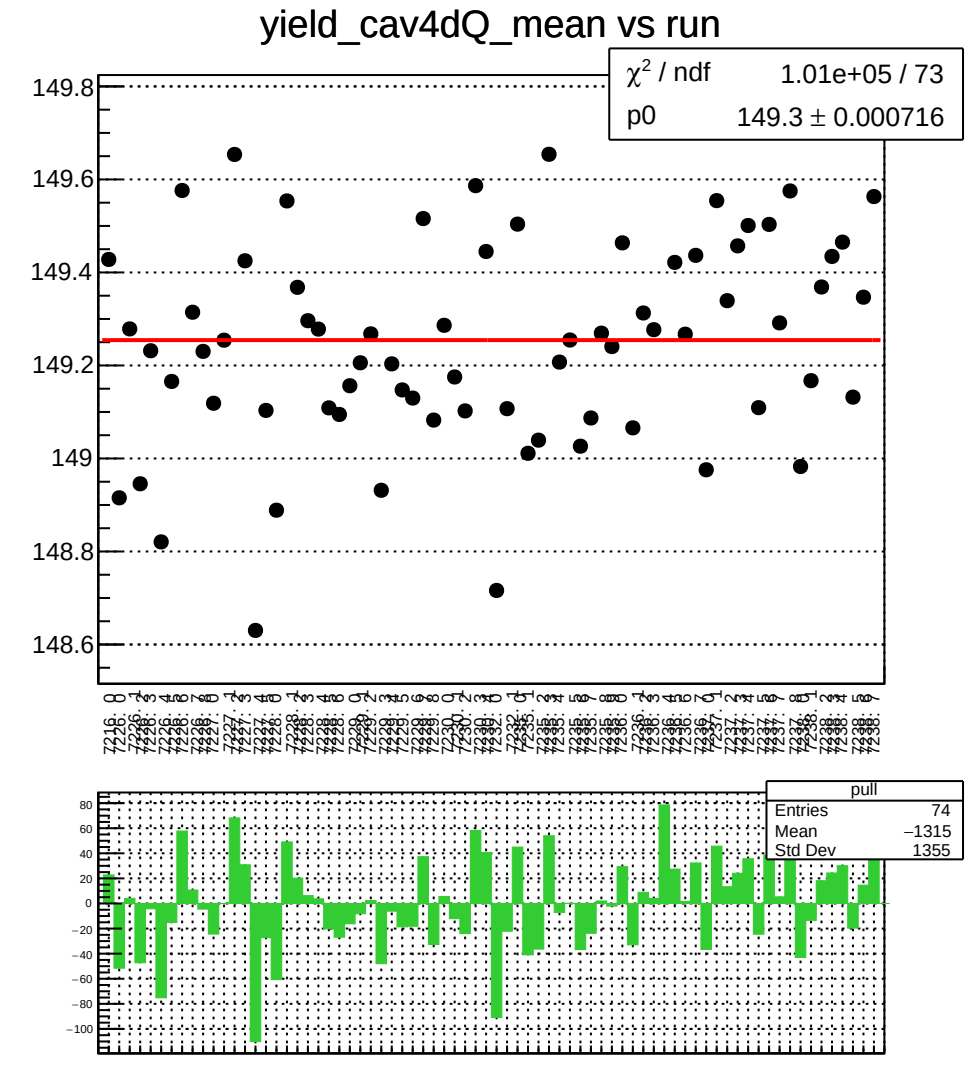

pull1D
Entries 74
Mean 1.118
Std Dev 5.543
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

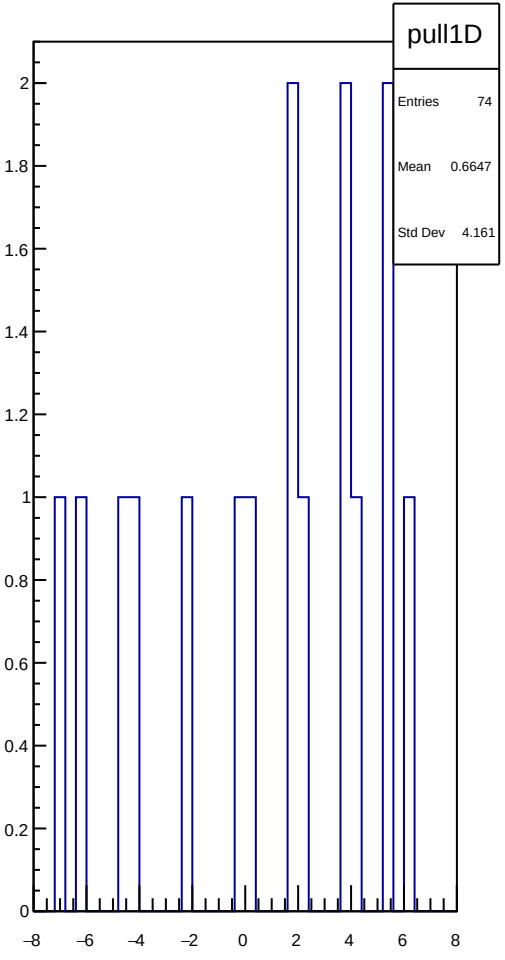

yield_cav4bQ_rms vs run
χ² / ndf 2.354e+05 / 73
p0 0.8867 ± 0.0008179
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

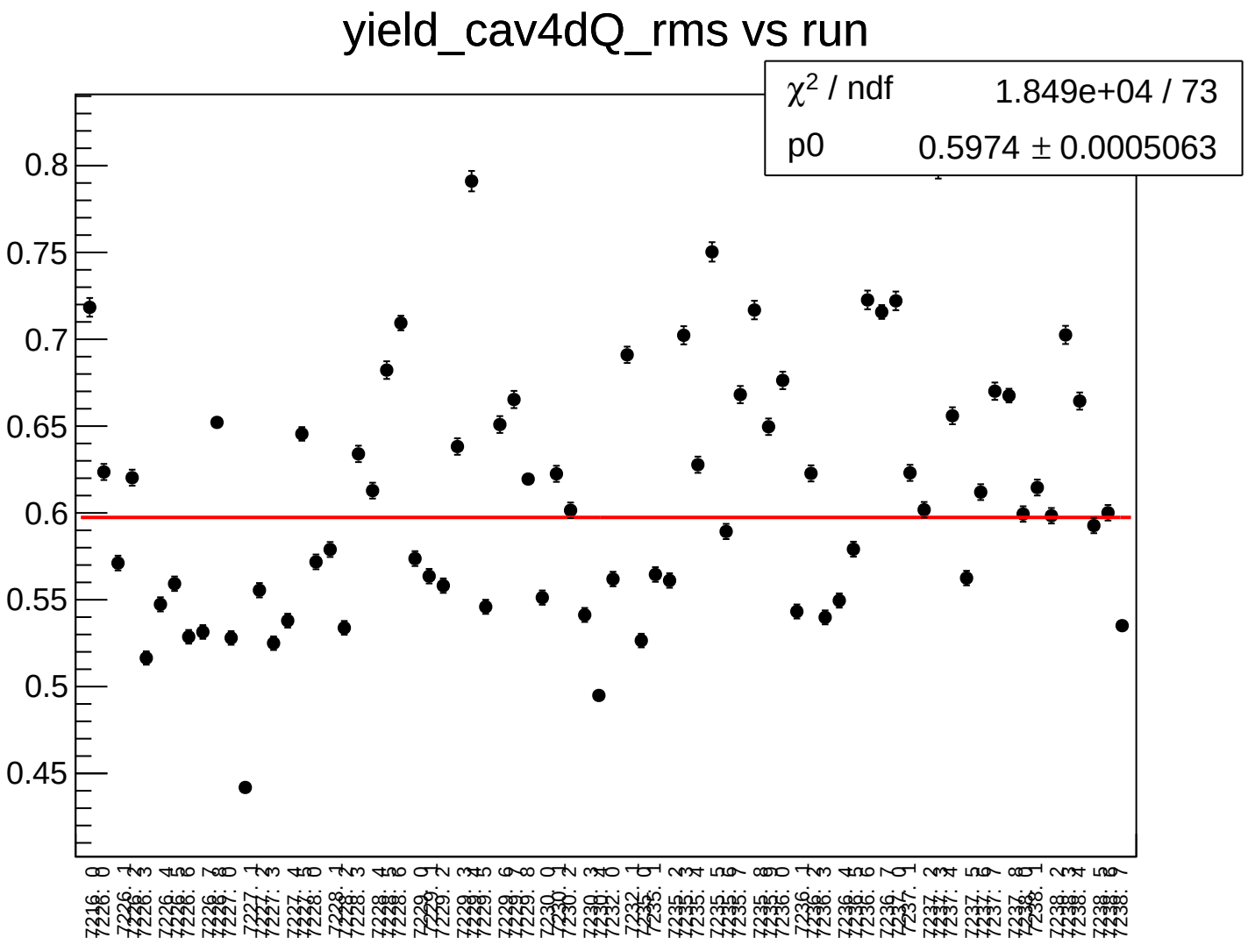

yield_cav4cQ_mean vs run
χ² / ndf 6.651e+05 / 73
p0 148 ± 0.0009851
149.5
149
148.5
148
147.5
147
pull
Entries 74
Mean 54.92
Std Dev 20.32
300
250
200
150
100
50
0
−50
−100
−150

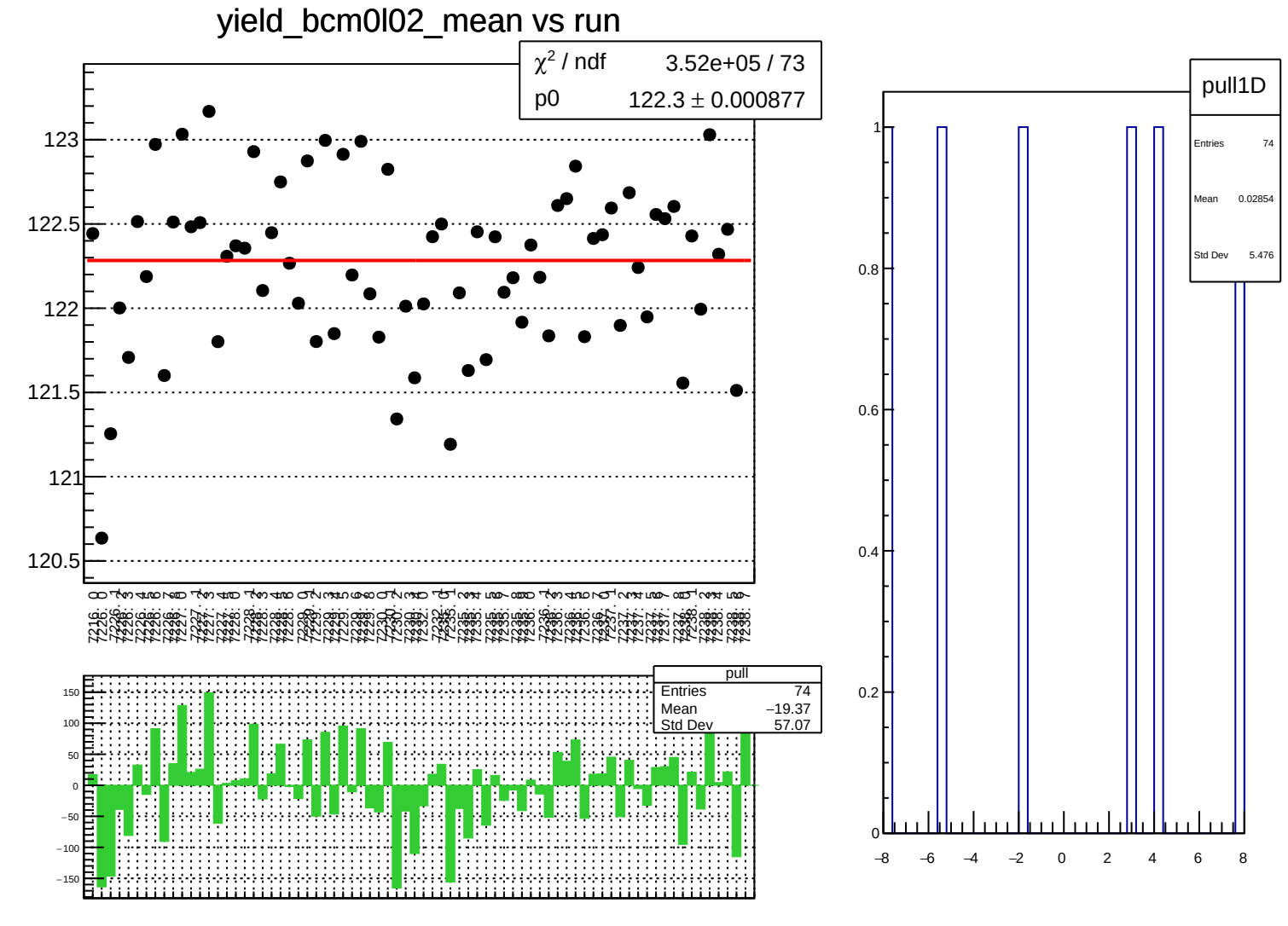

pull1D
Entries 74
Mean −0.1867
Std Dev 4.897
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

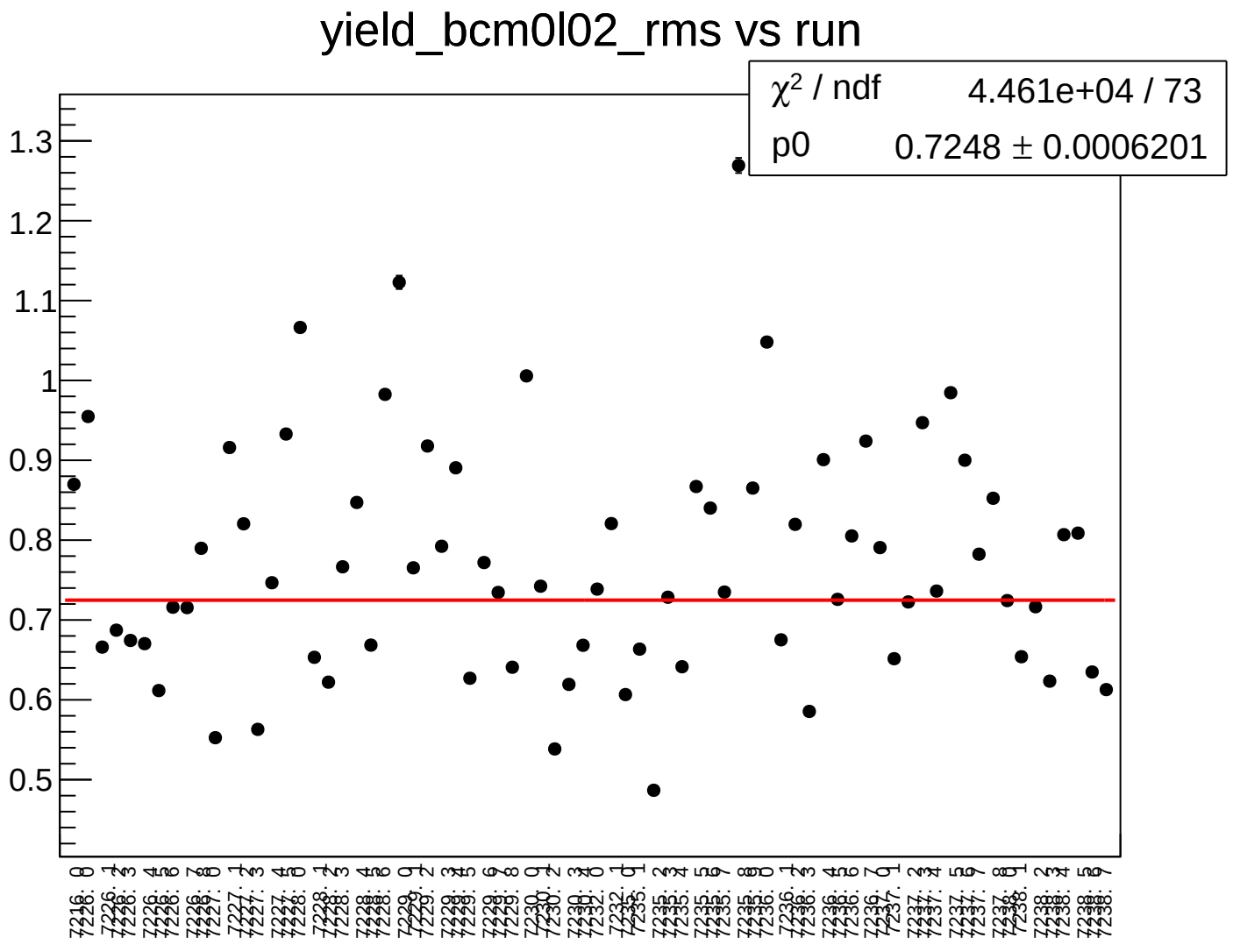

yield_cav4cQ_rms vs run
χ² / ndf 1.302e+05 / 73
p0 0.7882 ± 0.0006966
1.4
1.2
1
0.8
0.6

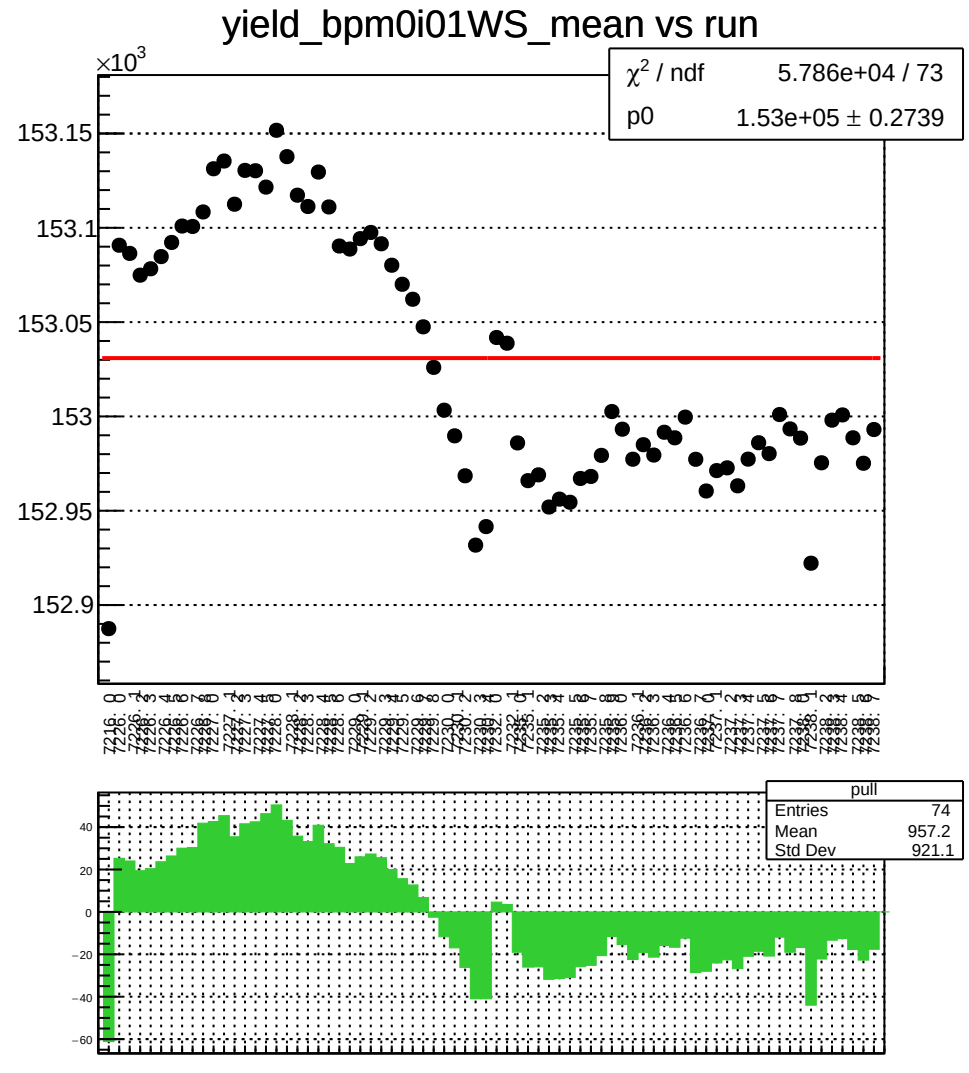

yield_cav4dQ_mean vs run
χ² / ndf 1.01e+05 / 73
p0 149.3 ± 0.000716
149.8
149.6
149.4
149.2
149
148.8
148.6
pull
Entries 74
Mean −1315
Std Dev 1355
80
60
40
20
0
−20
−40
−60
−80
−100

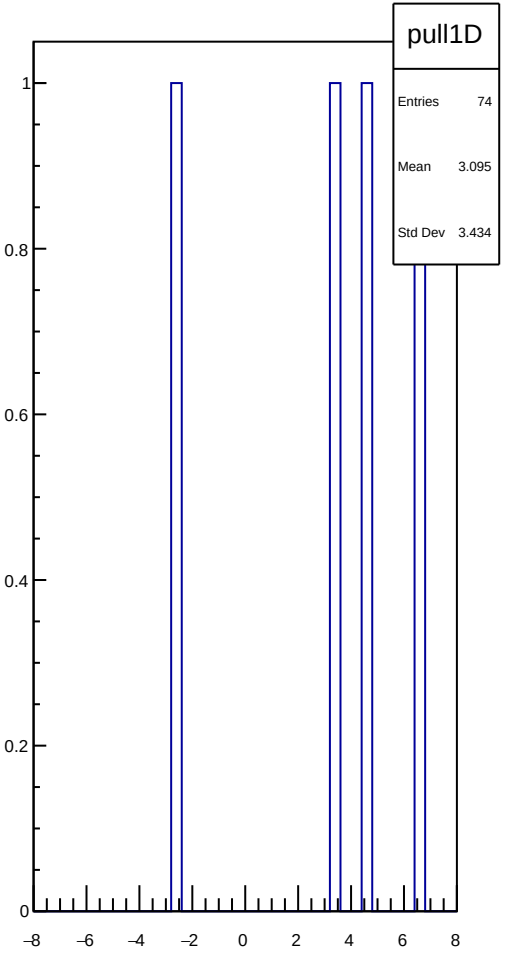

pull1D
Entries 74
Mean 0.6647
Std Dev 4.161
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

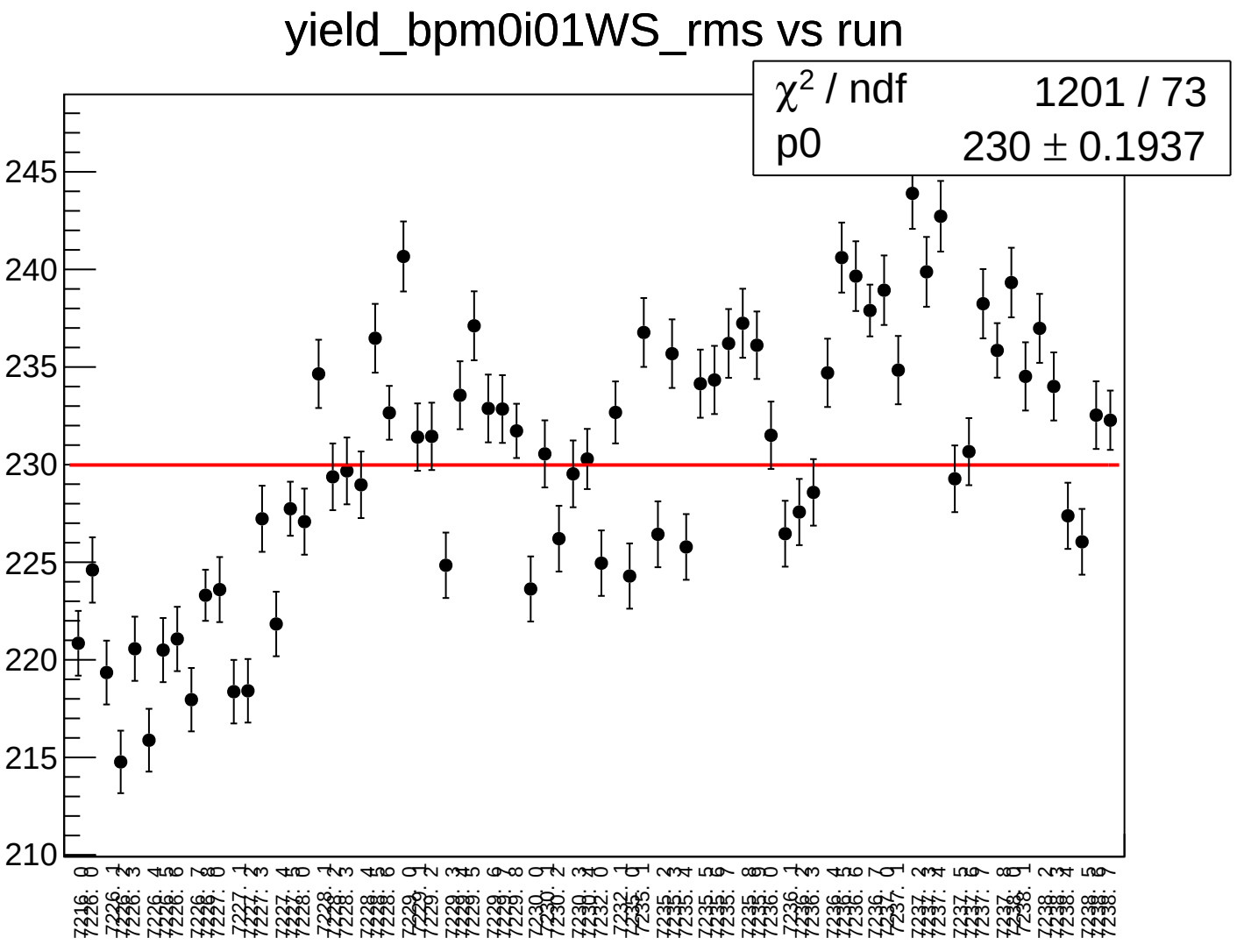

yield_cav4dQ_rms vs run
χ² / ndf 1.849e+04 / 73
p0 0.5974 ± 0.0005063
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

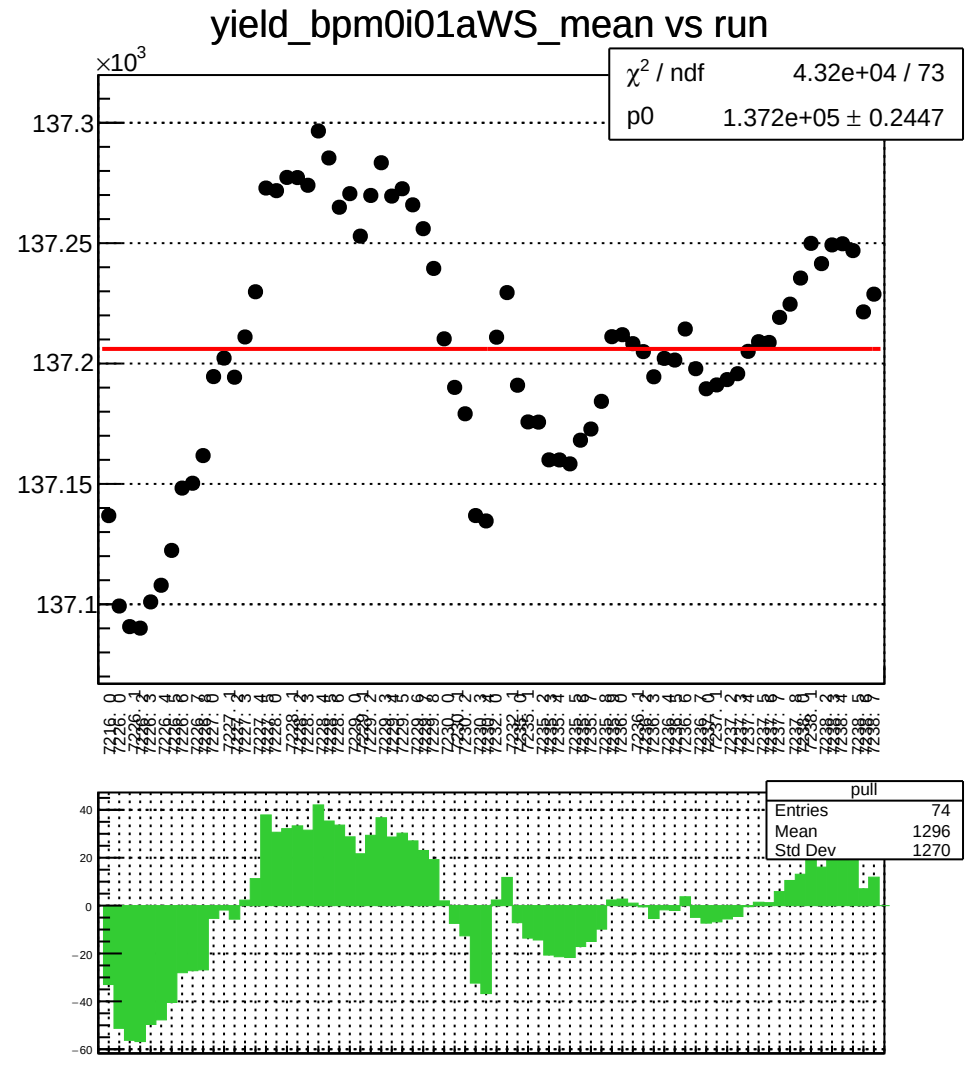

yield_bcm0l02_mean vs run
χ² / ndf 3.52e+05 / 73
p0 122.3 ± 0.000877
123
122.5
122
121.5
121
120.5
pull
Entries 74
Mean −19.37
Std Dev 57.07
150
100
50
0
−50
−100
−150
pull1D
Entries 74
Mean 0.02854
Std Dev 5.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

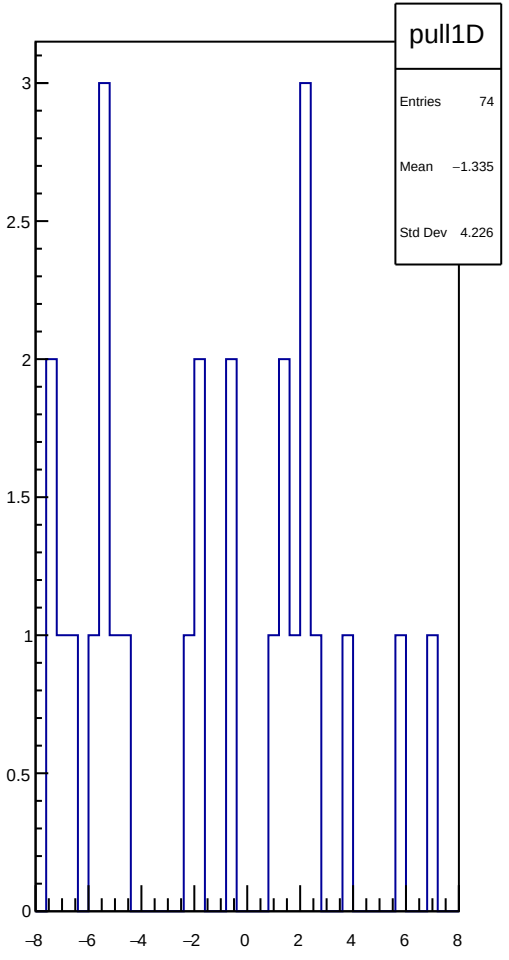

yield_bcm0l02_rms vs run
χ² / ndf 4.461e+04 / 73
p0 0.7248 ± 0.0006201
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

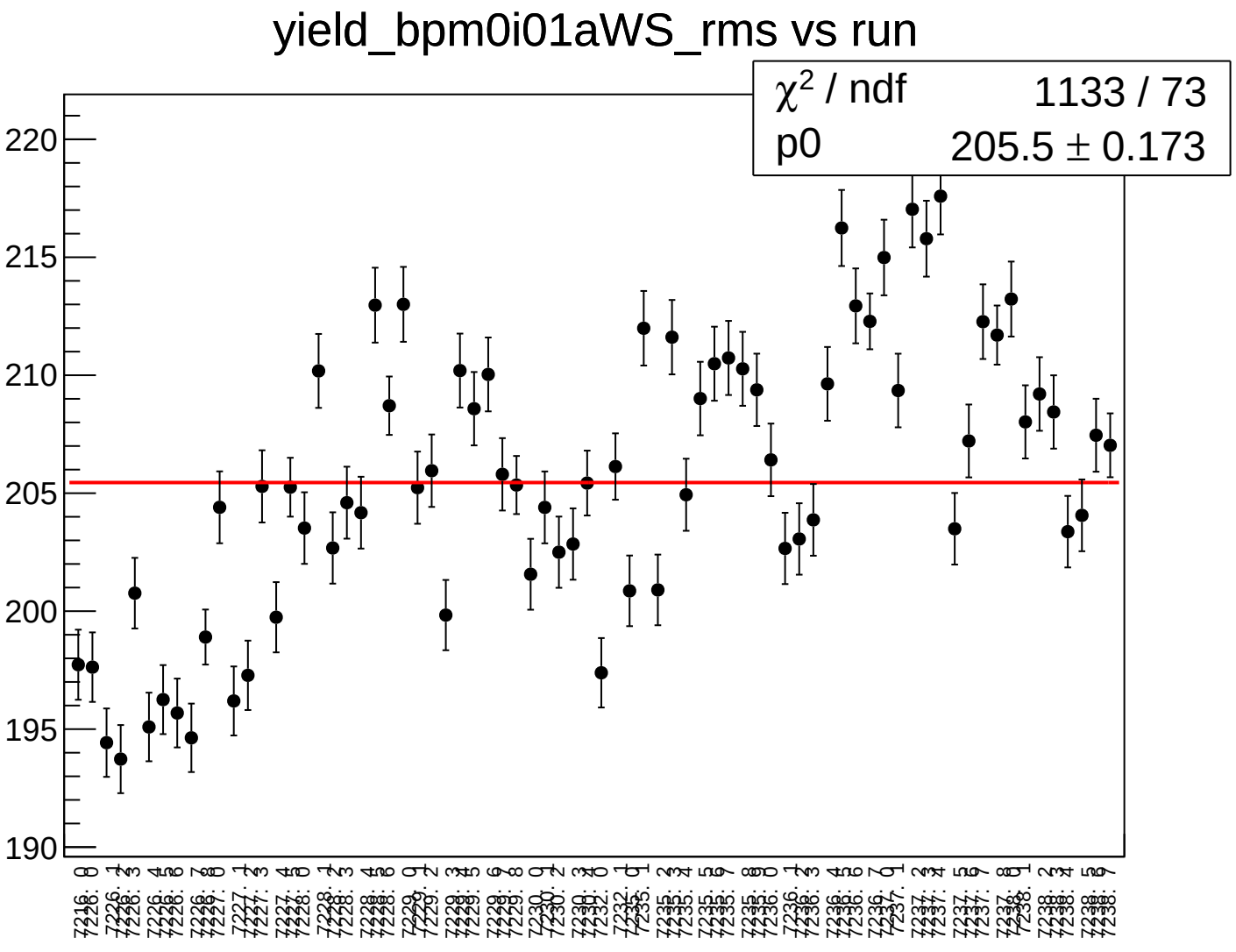

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.786e+04 / 73
p0 1.53e+05 ± 0.2739
153.15
153.1
153.05
153
152.95
152.9
pull
Entries 74
Mean 957.2
Std Dev 921.1
40
20
0
−20
−40
−60

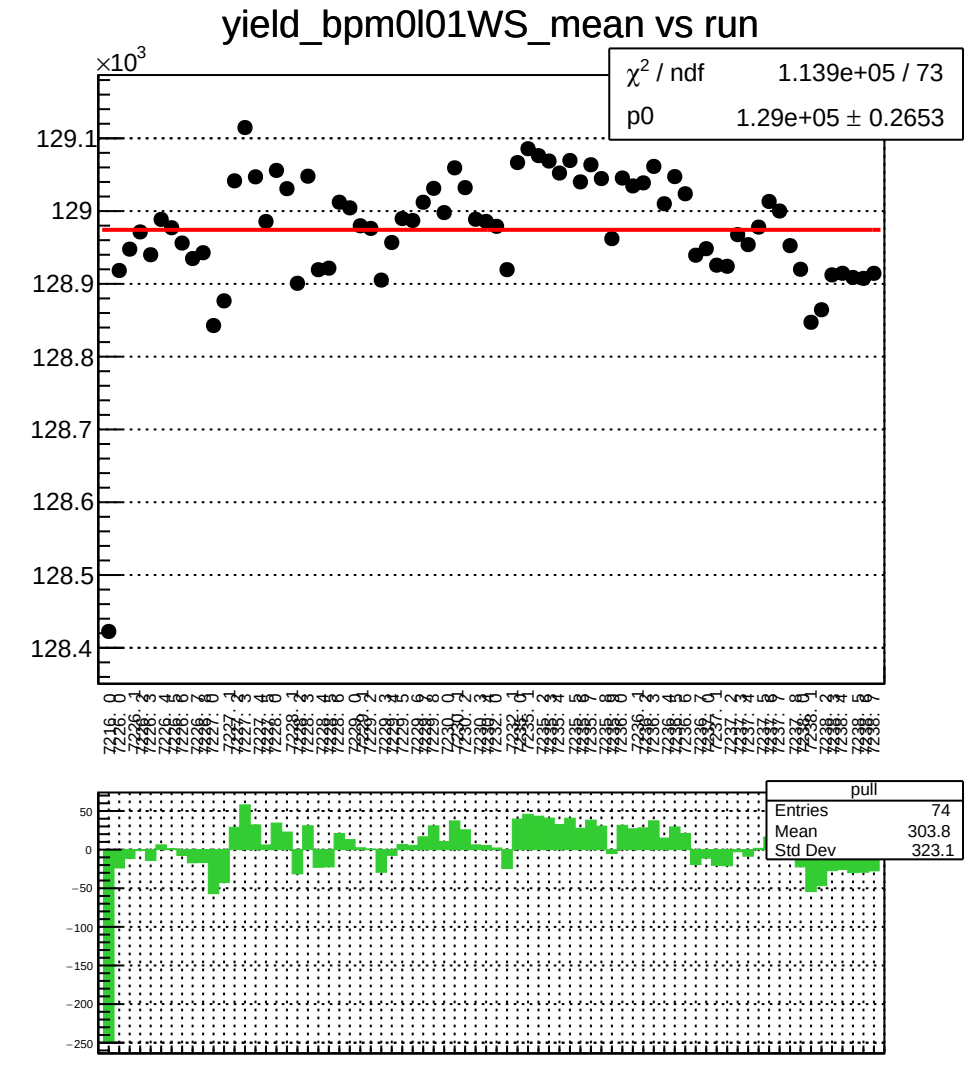

pull1D
Entries 74
Mean 3.095
Std Dev 3.434
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

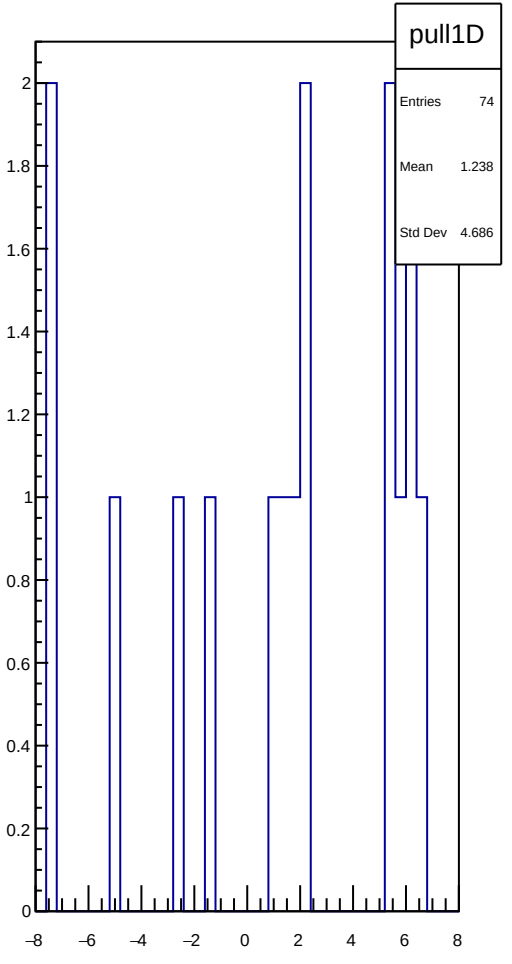

yield_bpm0i01WS_rms vs run
χ² / ndf 1201 / 73
p0 230 ± 0.1937
245
240
235
230
225
220
215
210

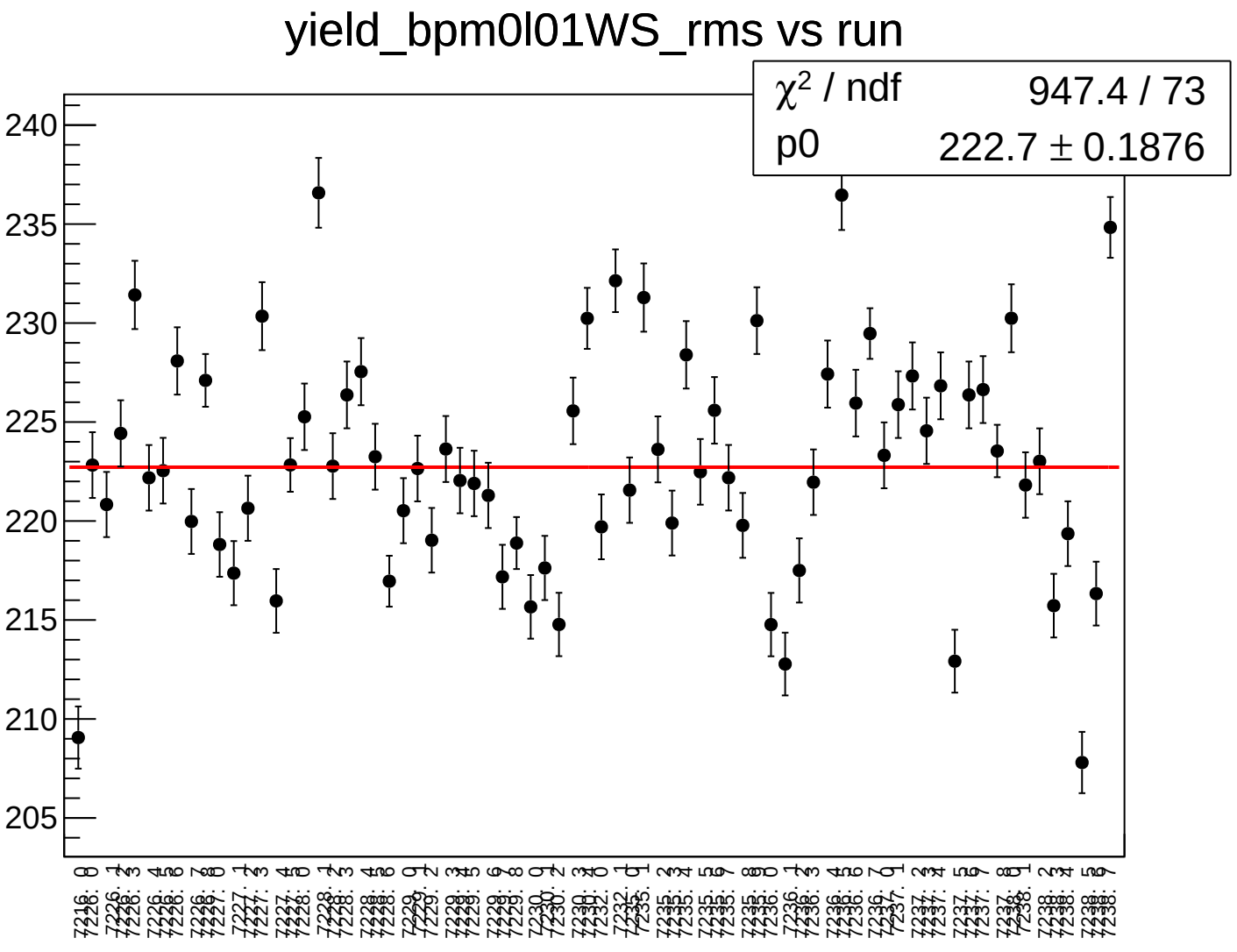

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.32e+04 / 73
p0 1.372e+05 ± 0.2447
137.3
137.25
137.2
137.15
137.1
pull
Entries 74
Mean 1296
Std Dev 1270
40
20
0
−20
−40
−60

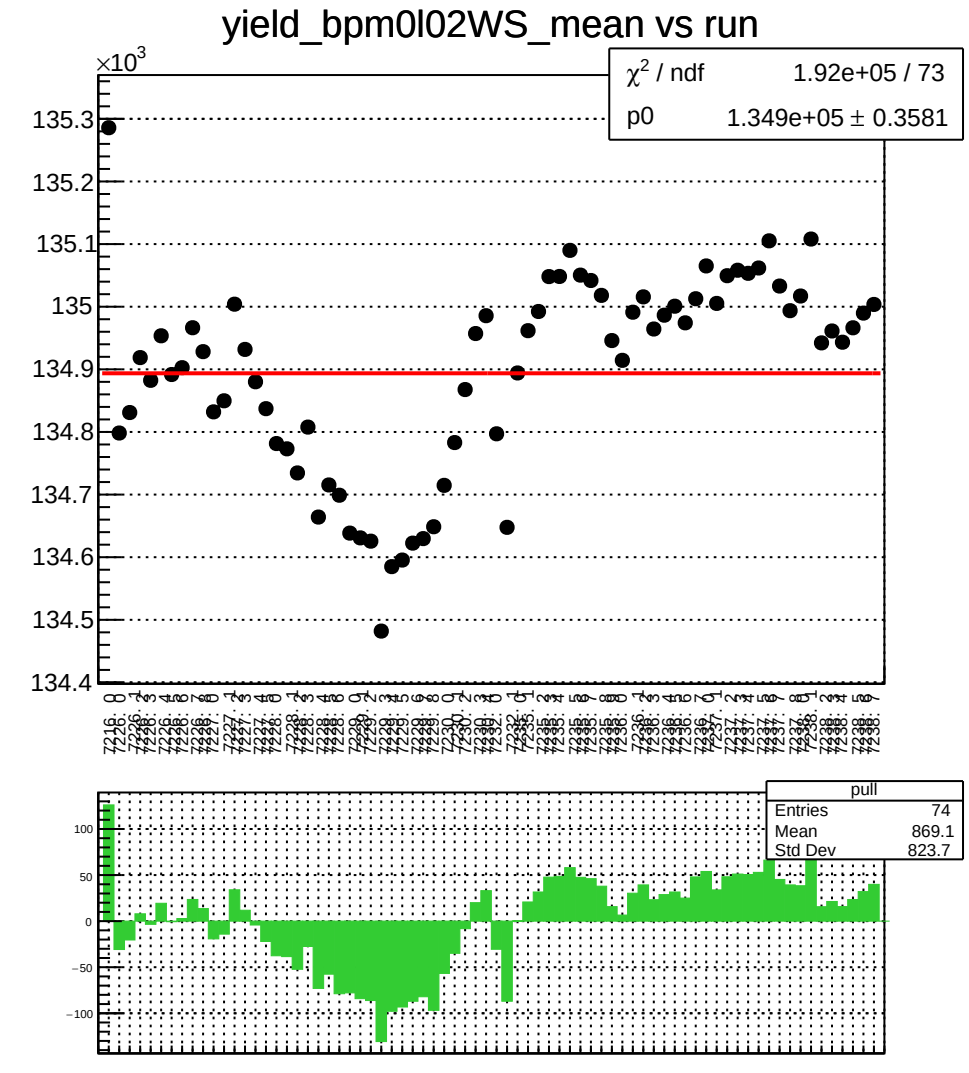

pull1D
Entries 74
Mean −1.335
Std Dev 4.226
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

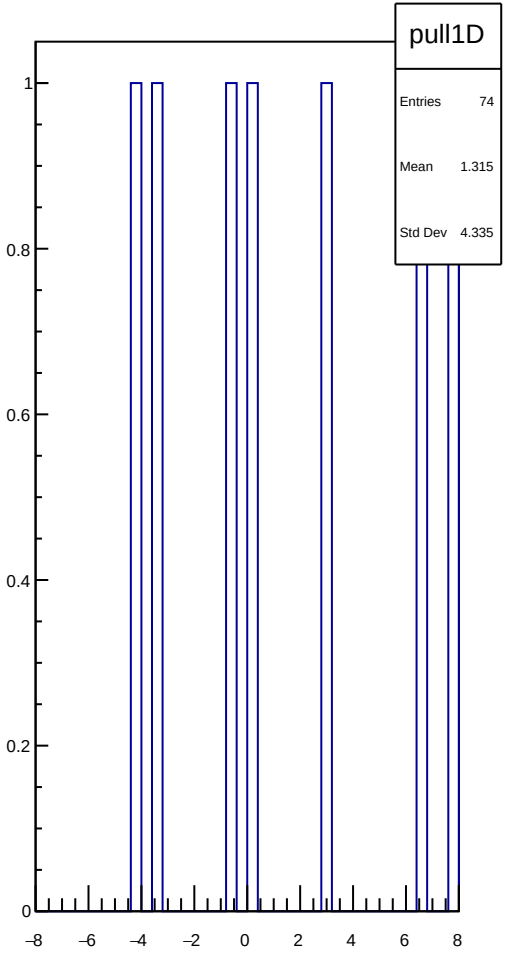

yield_bpm0i01aWS_rms vs run
χ² / ndf 1133 / 73
p0 205.5 ± 0.173
220
215
210
205
200
195
190

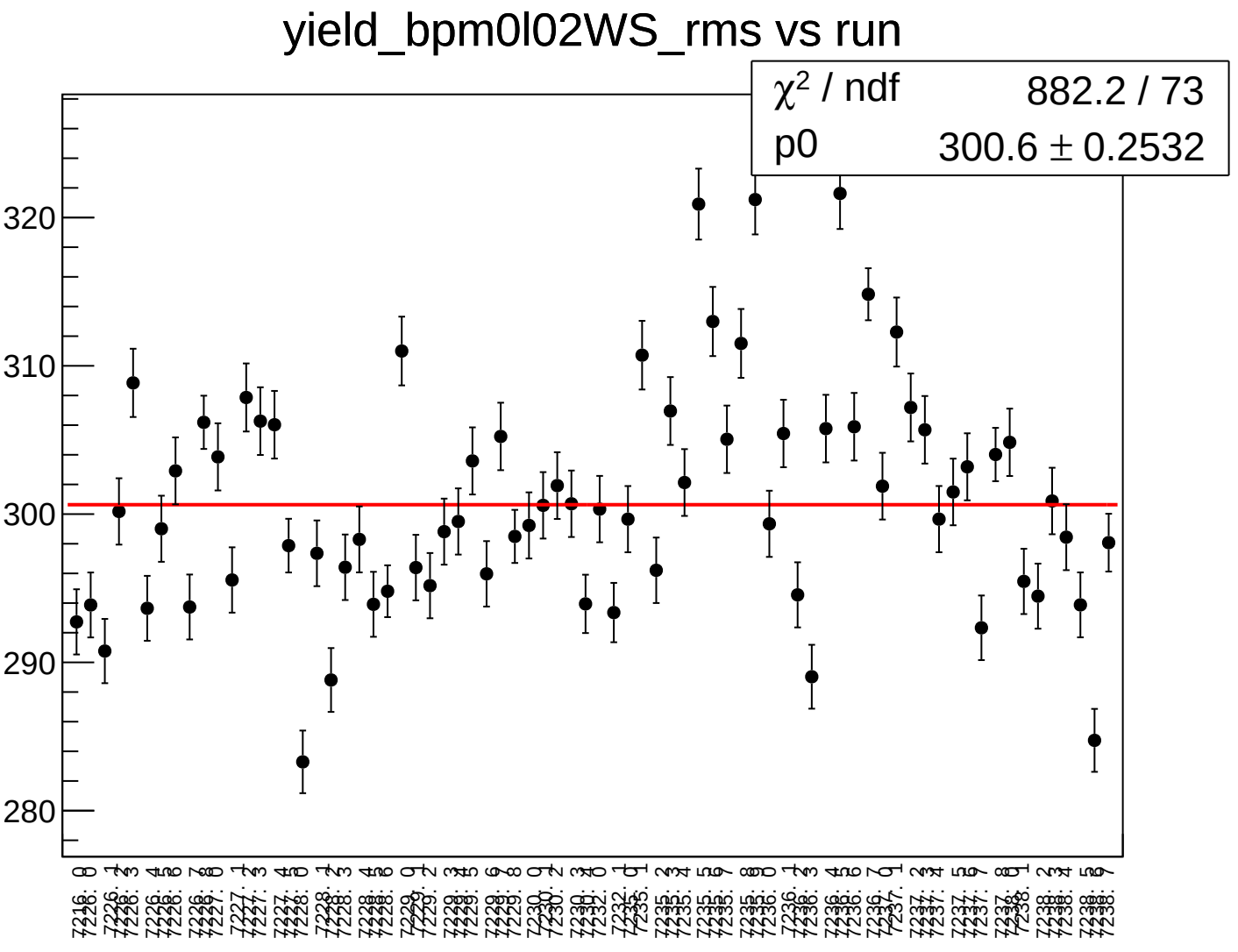

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.139e+05 / 73
p0 1.29e+05 ± 0.2653
129.1
129
128.9
128.8
128.7
128.6
128.5
128.4
pull
Entries 74
Mean 303.8
Std Dev 323.1
50
0
−50
−100
−150
−200
−250

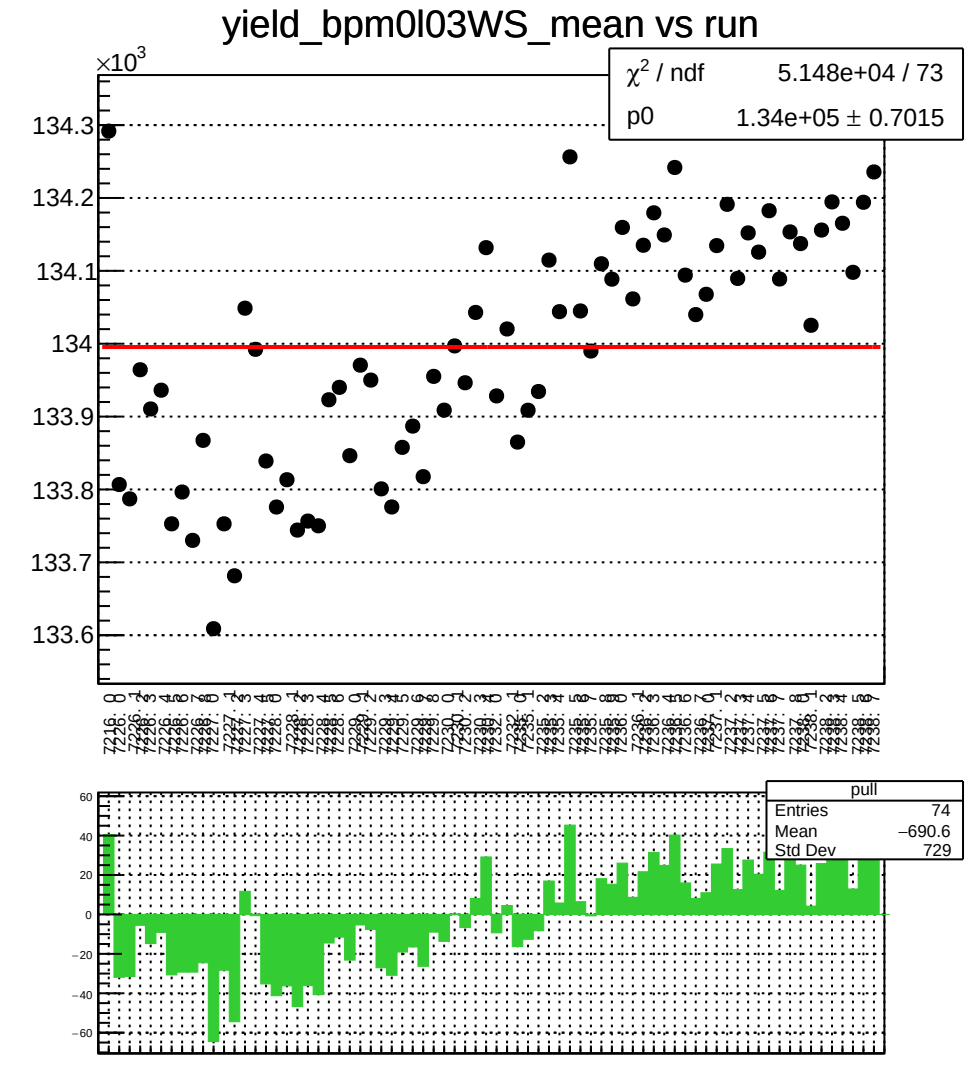

pull1D
Entries 74
Mean 1.238
Std Dev 4.686
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

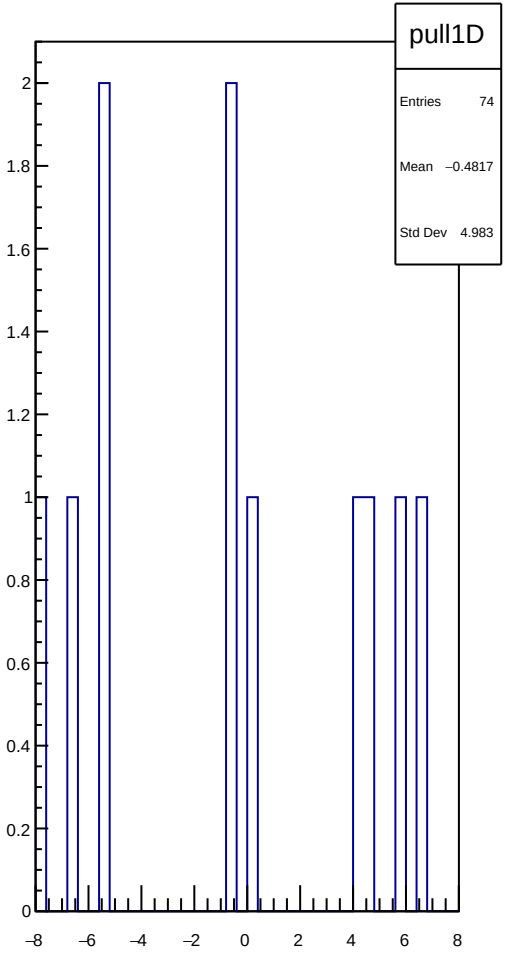

yield_bpm0l01WS_rms vs run
χ² / ndf 947.4 / 73
p0 222.7 ± 0.1876
240
235
230
225
220
215
210
205


yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.92e+05 / 73
p0 1.349e+05 ± 0.3581
135.3
135.2
135.1
135
134.9
134.8
134.7
134.6
134.5
134.4
pull
Entries 74
Mean 869.1
Std Dev 823.7
100
50
0
−50
−100


pull1D
Entries 74
Mean 1.315
Std Dev 4.335
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 882.2 / 73
p0 300.6 ± 0.2532
320
310
300
290
280


yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 5.148e+04 / 73
p0 1.34e+05 ± 0.7015
134.3
134.2
134.1
134
133.9
133.8
133.7
133.6
pull
Entries 74
Mean −690.6
Std Dev 729
60
40
20
0
−20
−40
−60


pull1D
Entries 74
Mean −0.4817
Std Dev 4.983
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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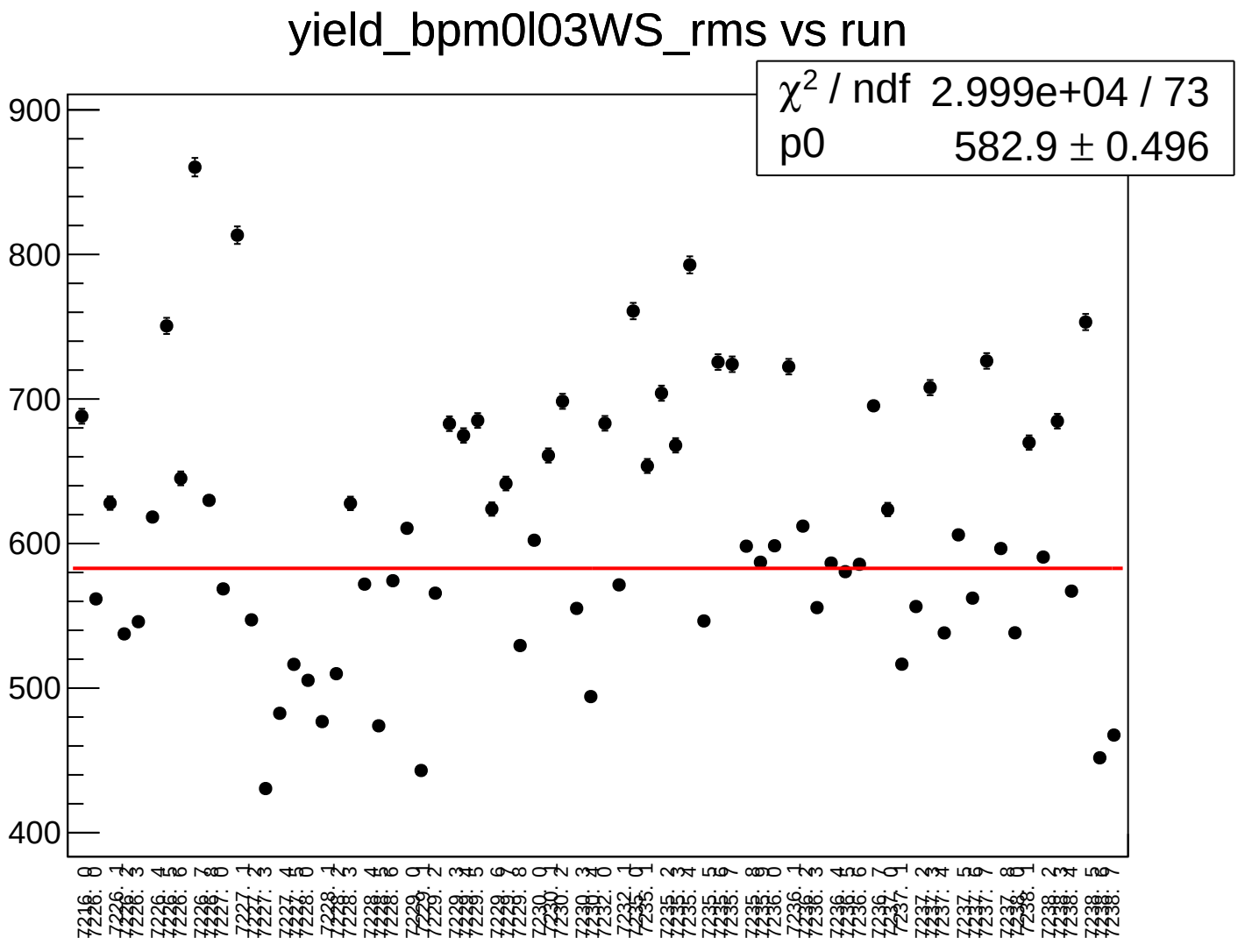
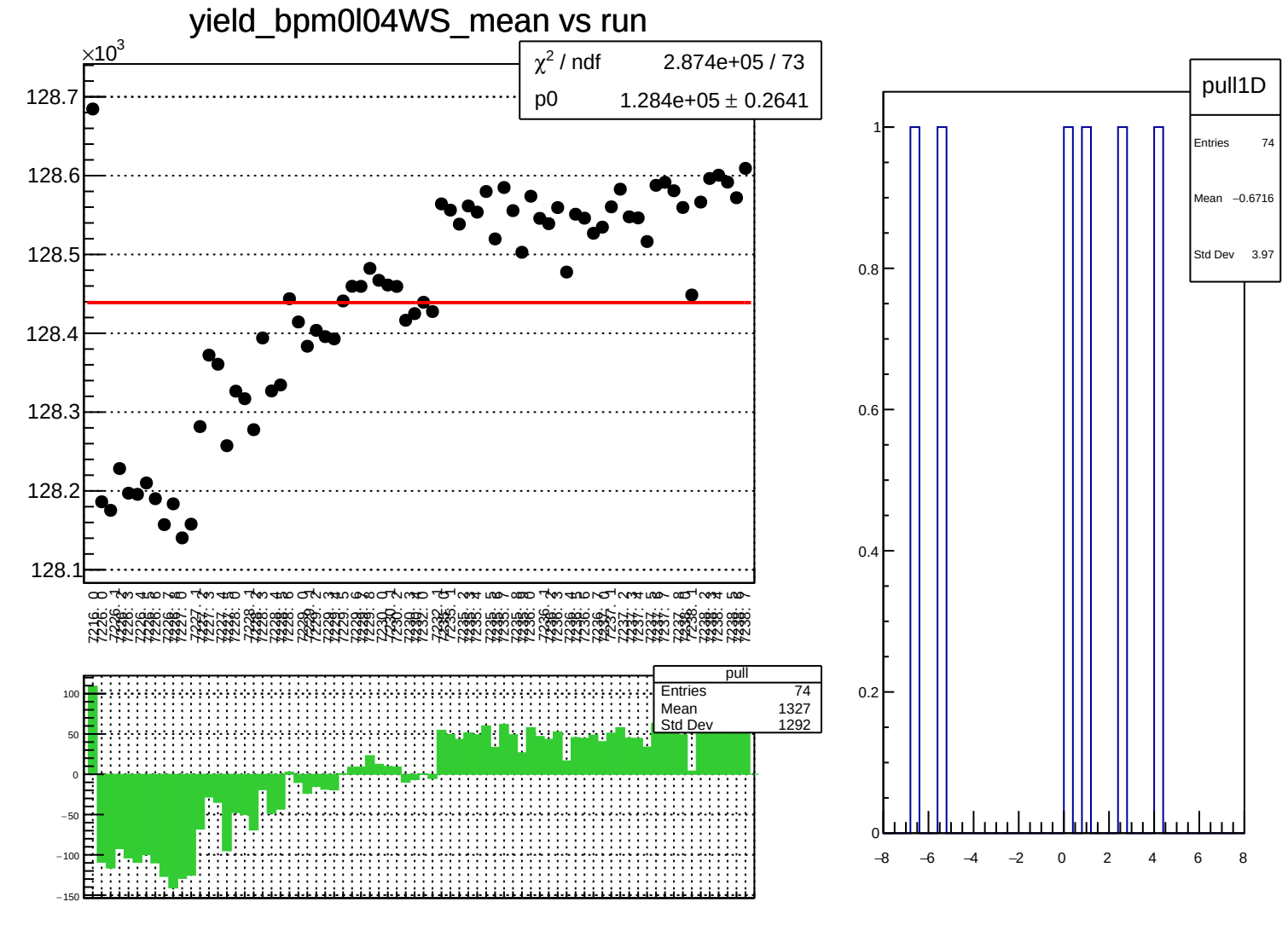
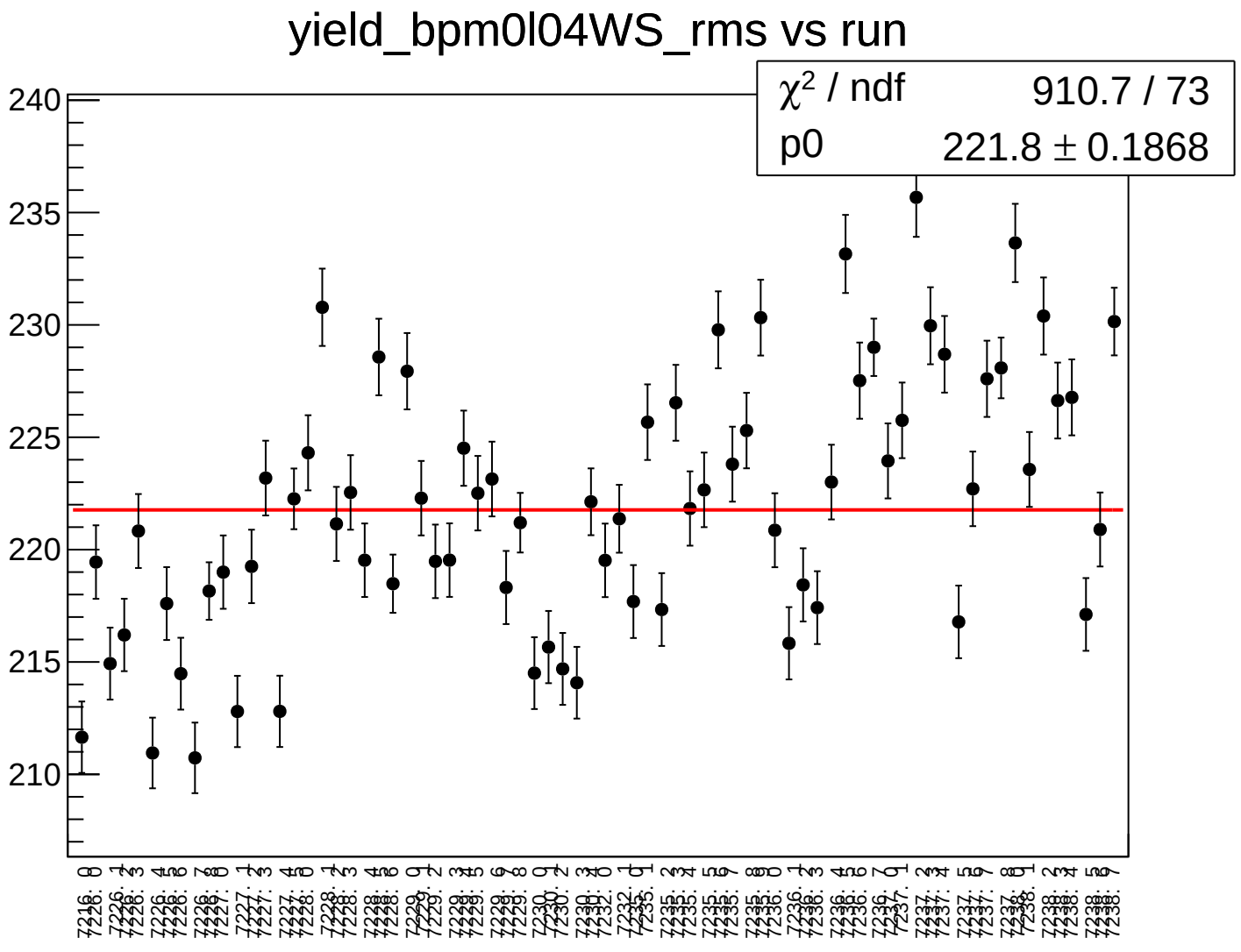
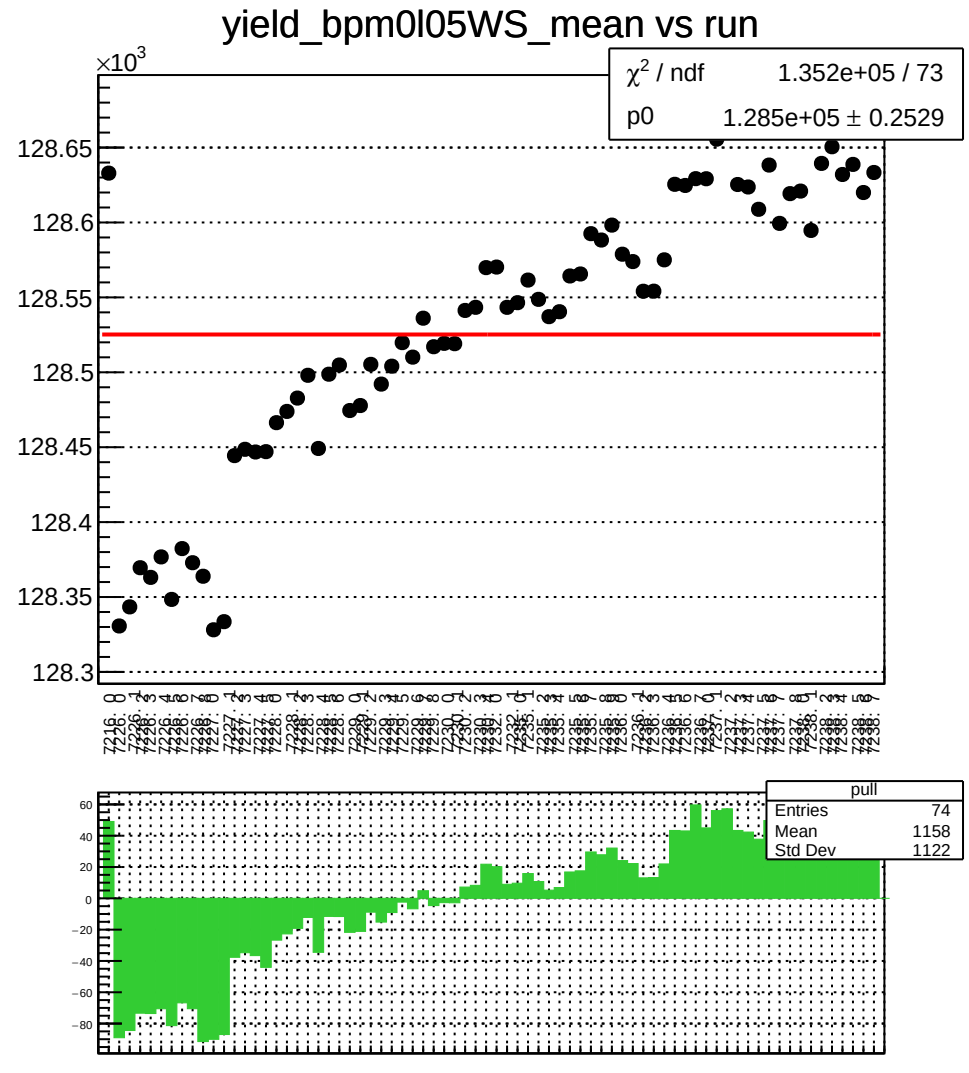
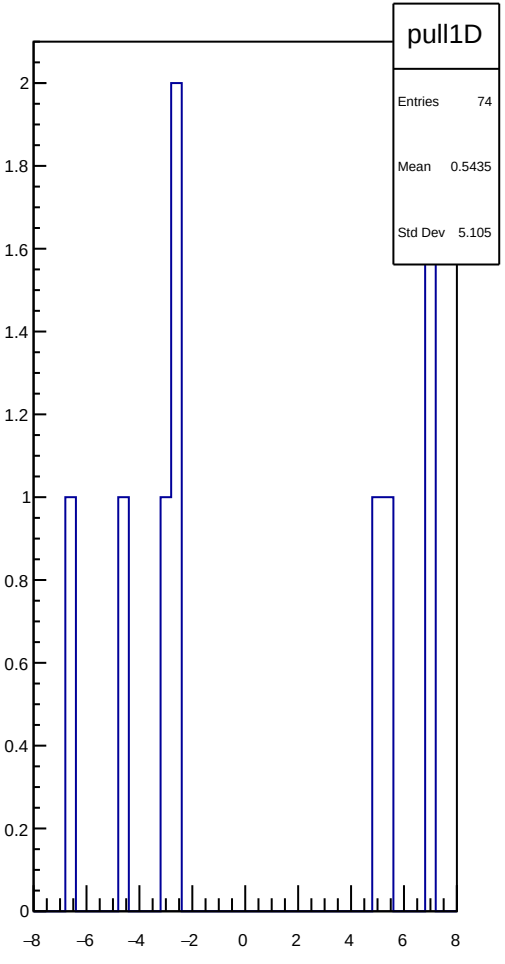
0
2
4
6
8

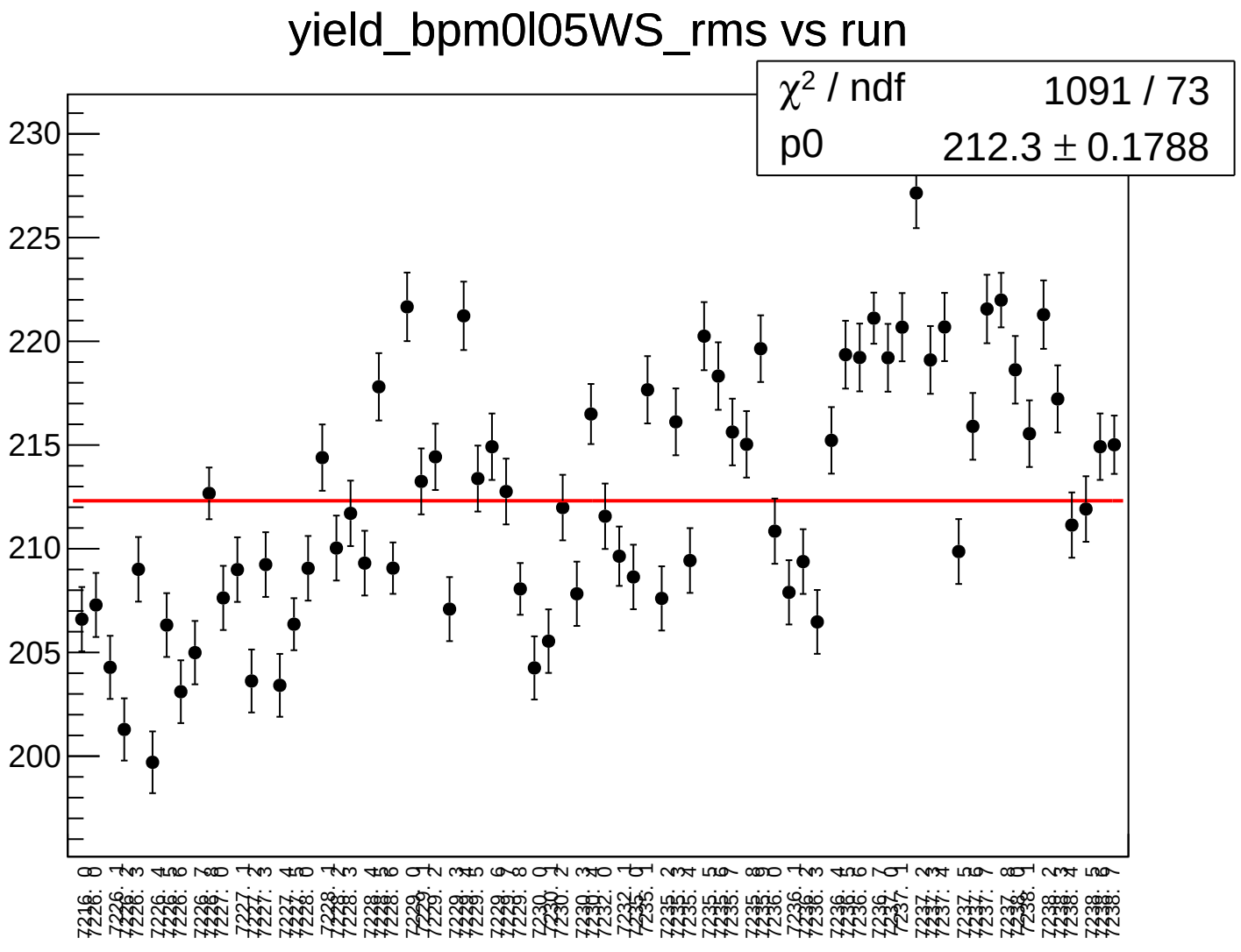

yield_bpm0l03WS_rms vs run
χ² / ndf 2.999e+04 / 73
p0 582.9 ± 0.496
900
800
700
600
500
400

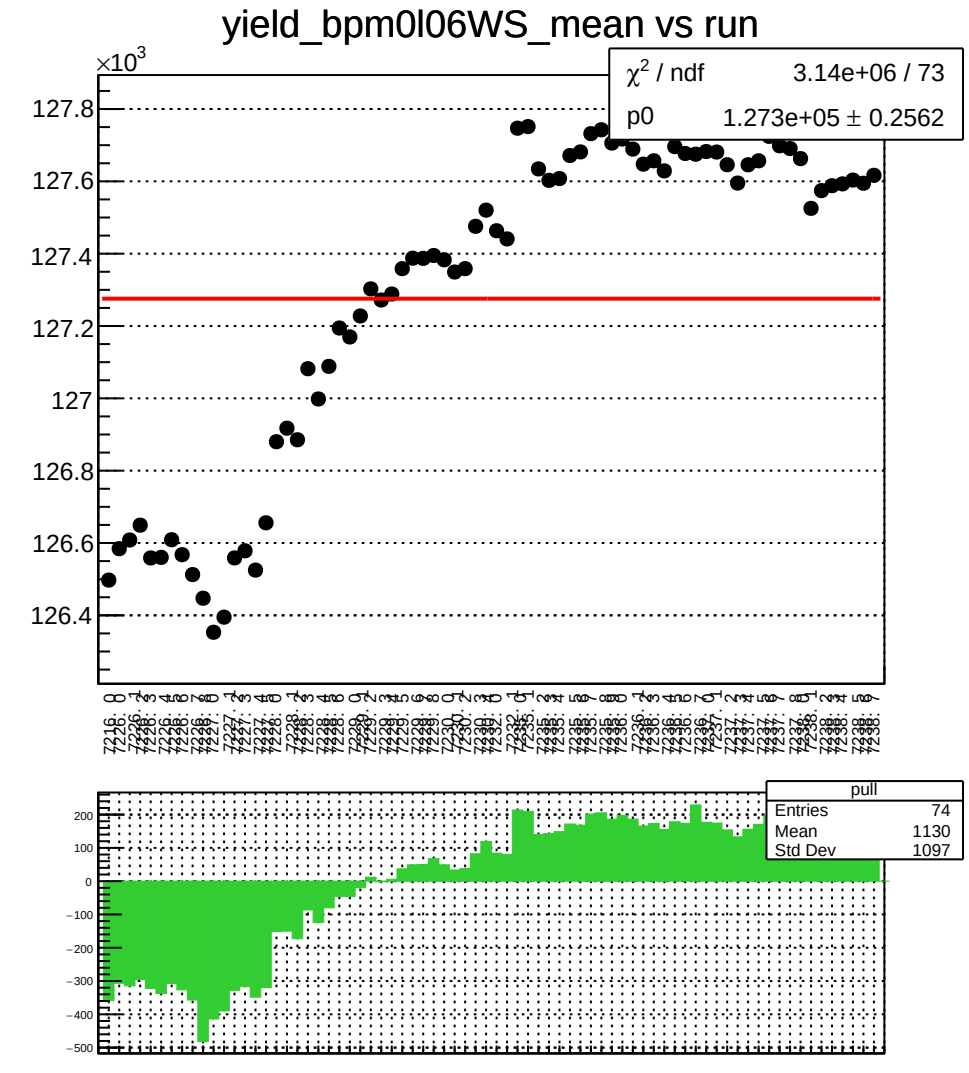

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.874e+05 / 73
p0 1.284e+05 ± 0.2641
128.7
128.6
128.5
128.4
128.3
128.2
128.1
pull
Entries 74
Mean 1327
Std Dev 1292
100
50
0
−50
−100
−150
pull1D
Entries 74
Mean −0.6716
Std Dev 3.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

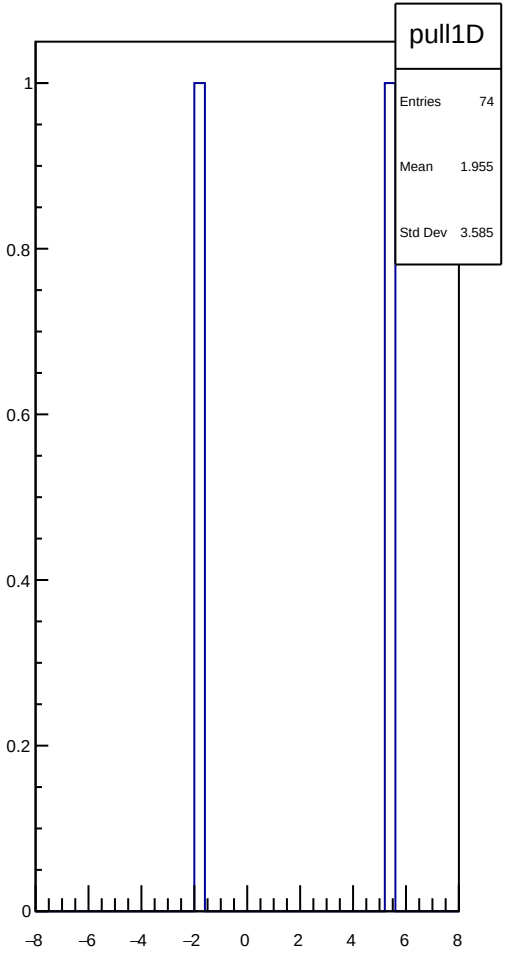

yield_bpm0l04WS_rms vs run
χ² / ndf 910.7 / 73
p0 221.8 ± 0.1868
240
235
230
225
220
215
210

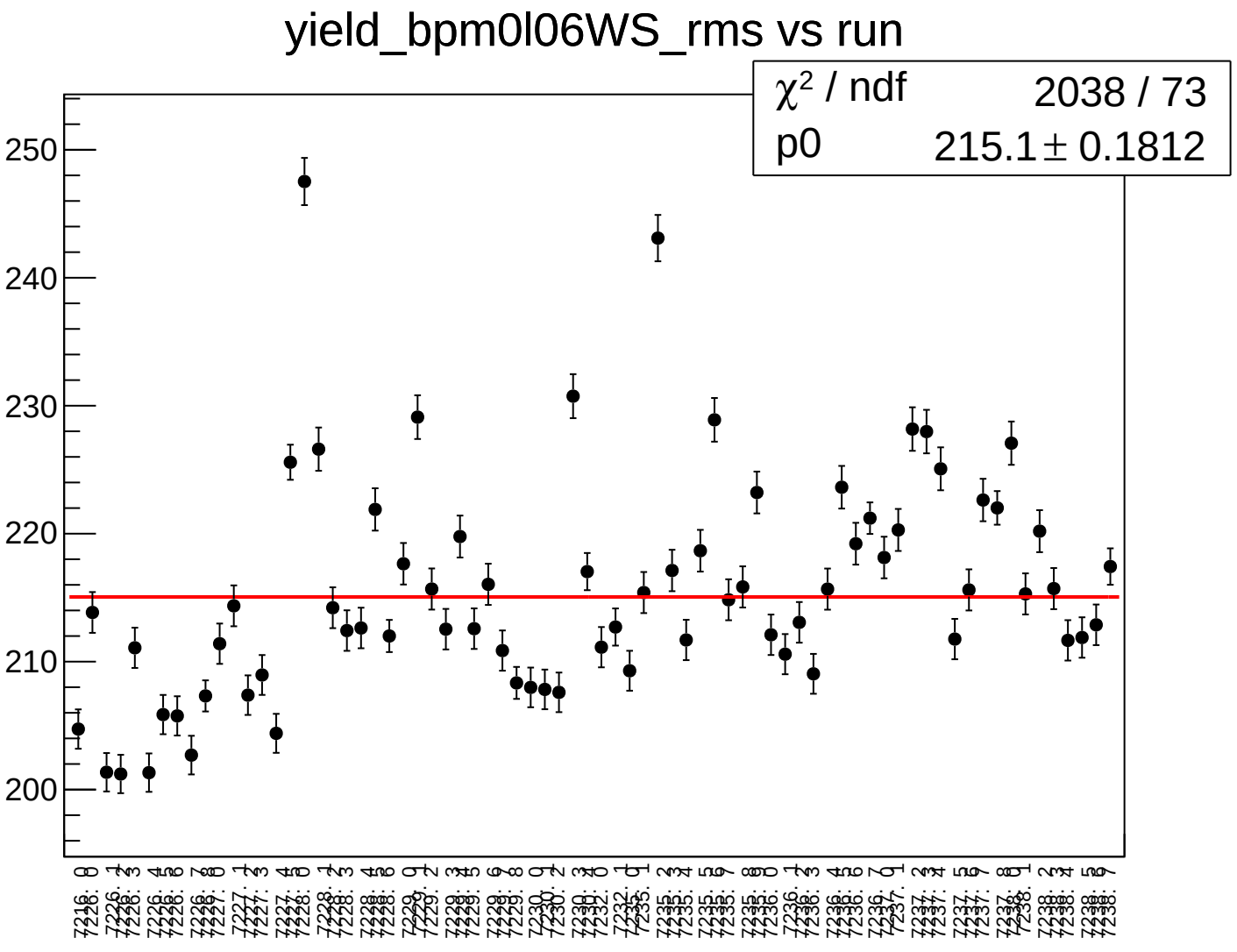

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.352e+05 / 73
p0 1.285e+05 ± 0.2529
128.65
128.6
128.55
128.5
128.45
128.4
128.35
128.3
pull
Entries 74
Mean 1158
Std Dev 1122
60
40
20
0
−20
−40
−60
−80

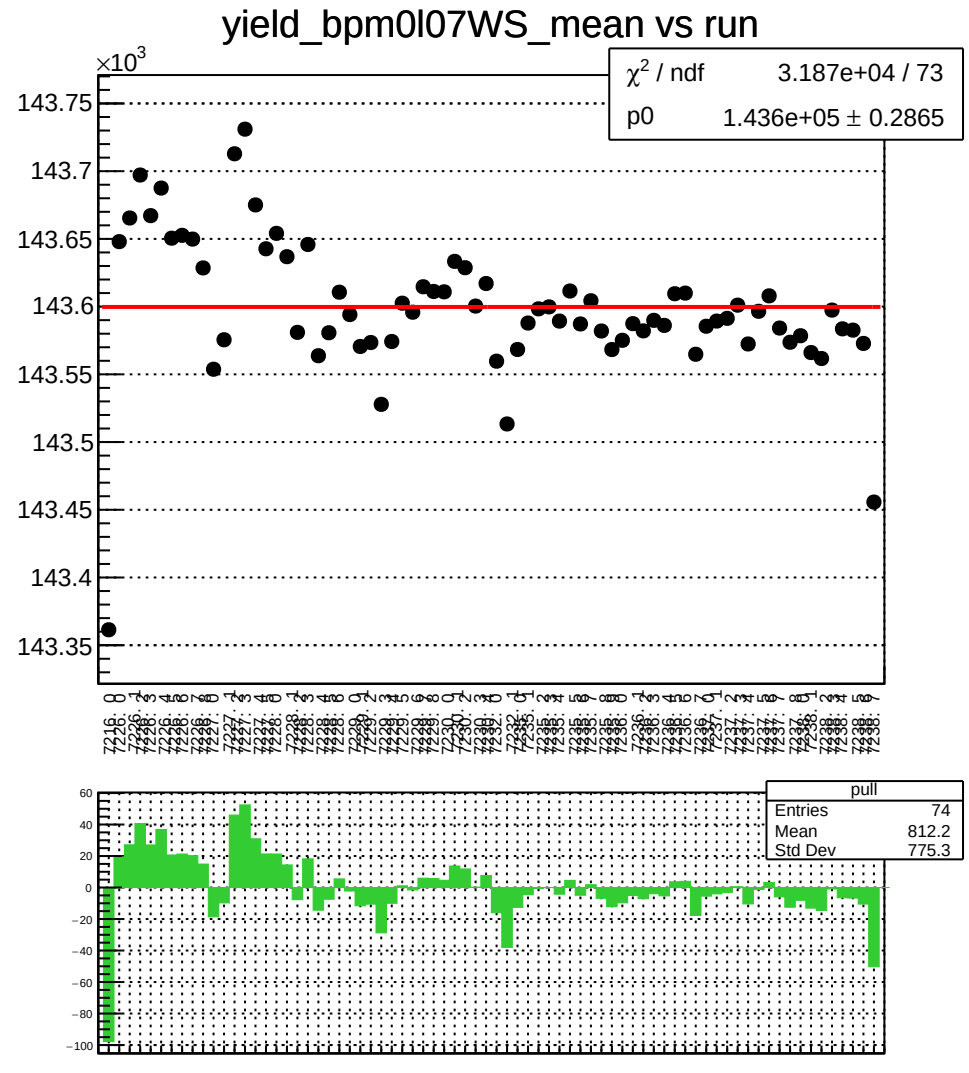

pull1D
Entries 74
Mean 0.5435
Std Dev 5.105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

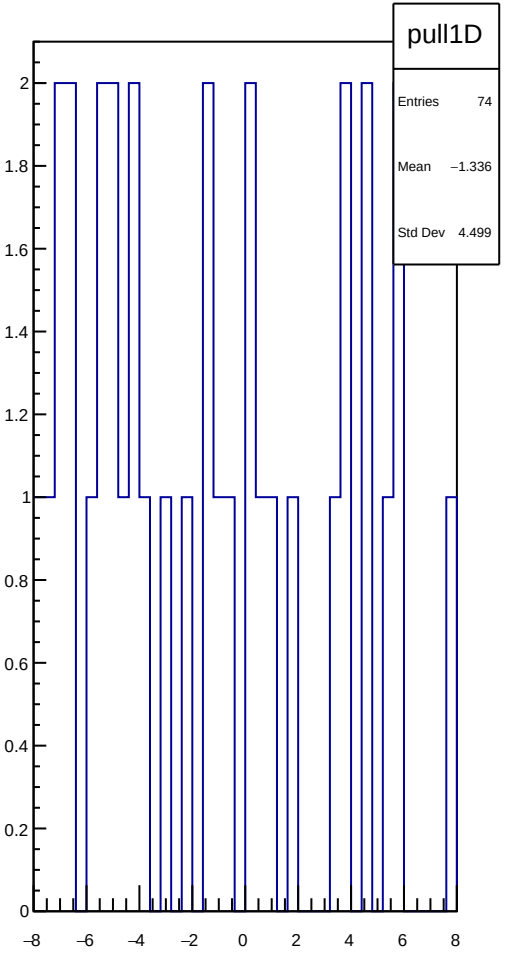

yield_bpm0l05WS_rms vs run
χ² / ndf 1091 / 73
p0 212.3 ± 0.1788
230
225
220
215
210
205
200

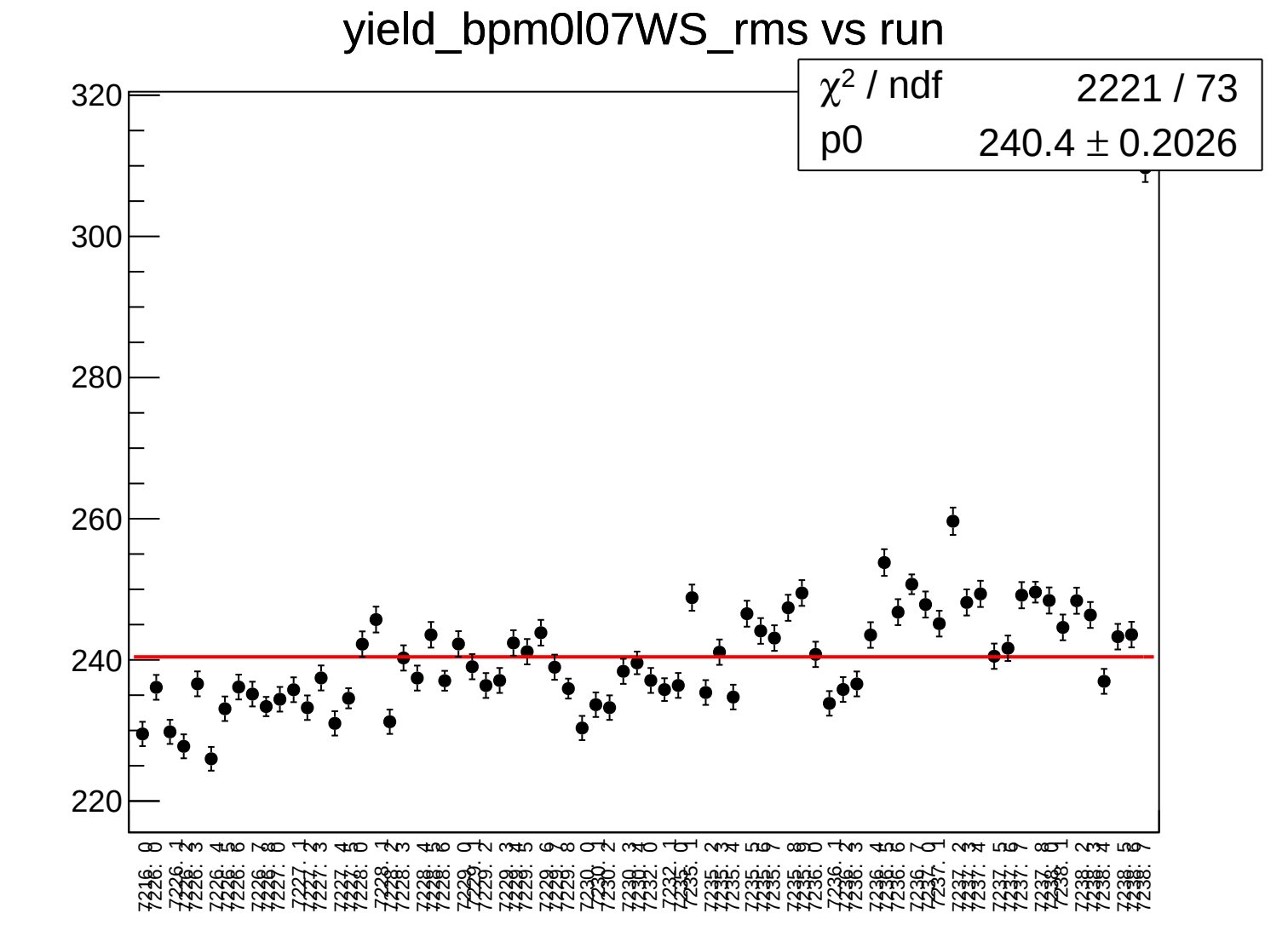

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.14e+06 / 73
p0 1.273e+05 ± 0.2562
127.8
127.6
127.4
127.2
127
126.8
126.6
126.4
pull
Entries 74
Mean 1130
Std Dev 1097
200
100
0
−100
−200
−300
−400
−500

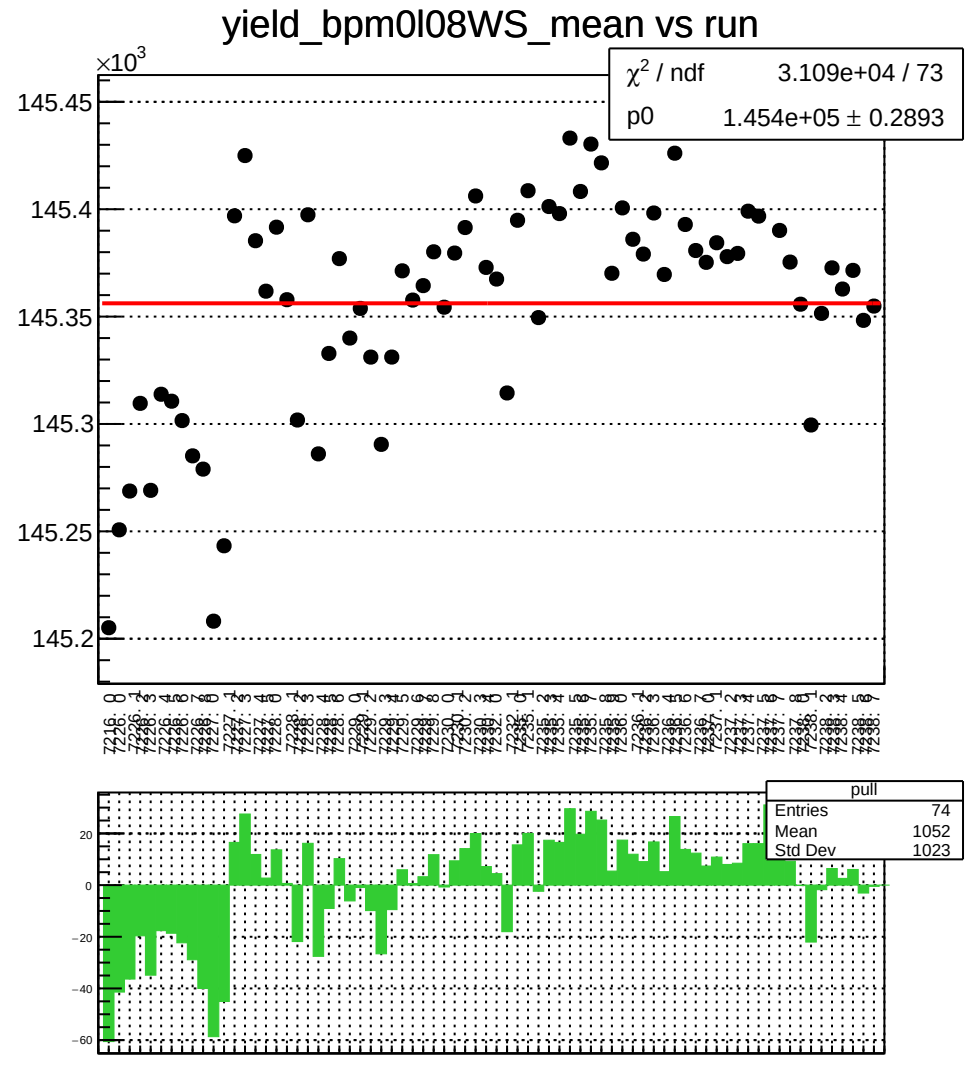

pull1D
Entries 74
Mean 1.955
Std Dev 3.585
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

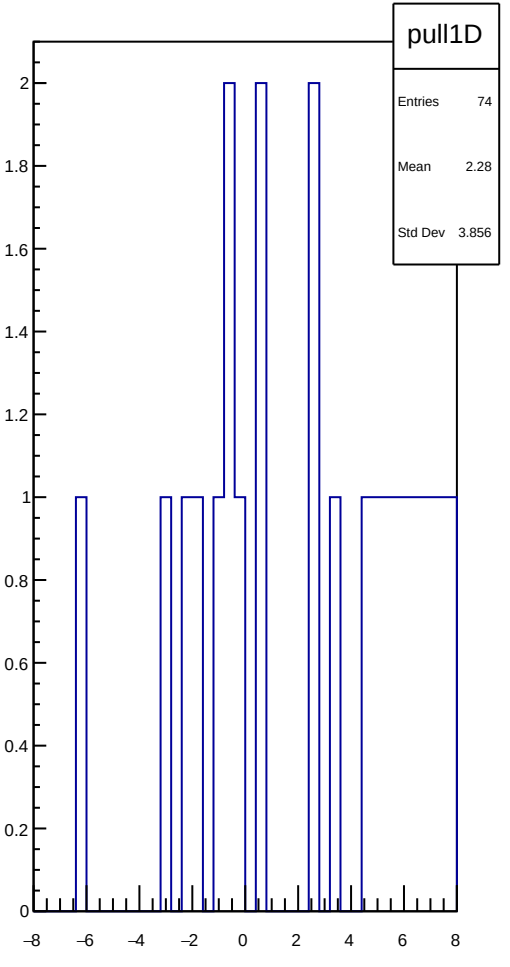

yield_bpm0l06WS_rms vs run
χ² / ndf 2038 / 73
p0 215.1 ± 0.1812
250
240
230
220
210
200

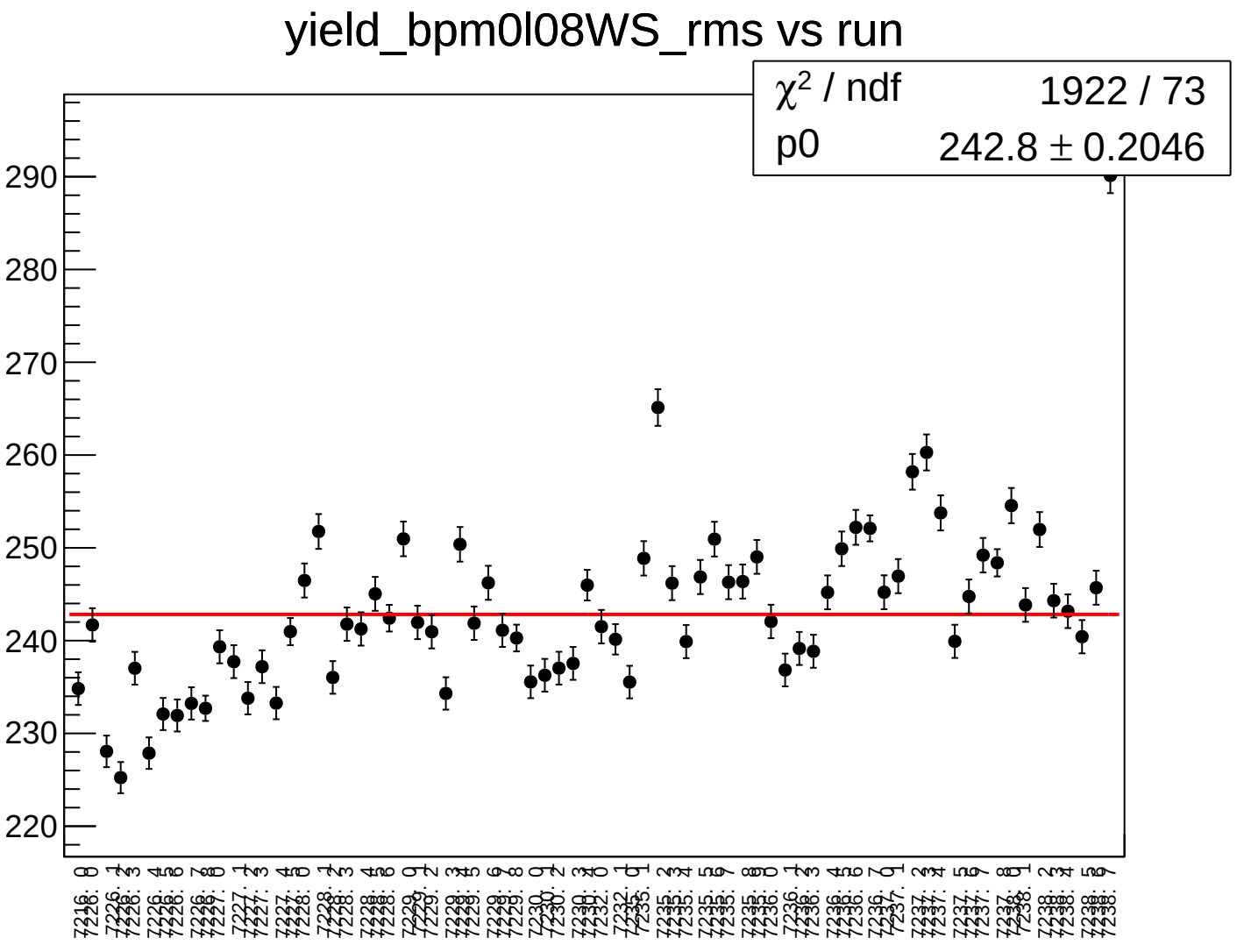

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.187e+04 / 73
p0 1.436e+05 ± 0.2865
143.75
143.7
143.65
143.6
143.55
143.5
143.45
143.4
143.35
pull
Entries 74
Mean 812.2
Std Dev 775.3
60
40
20
0
−20
−40
−60
−80
−100

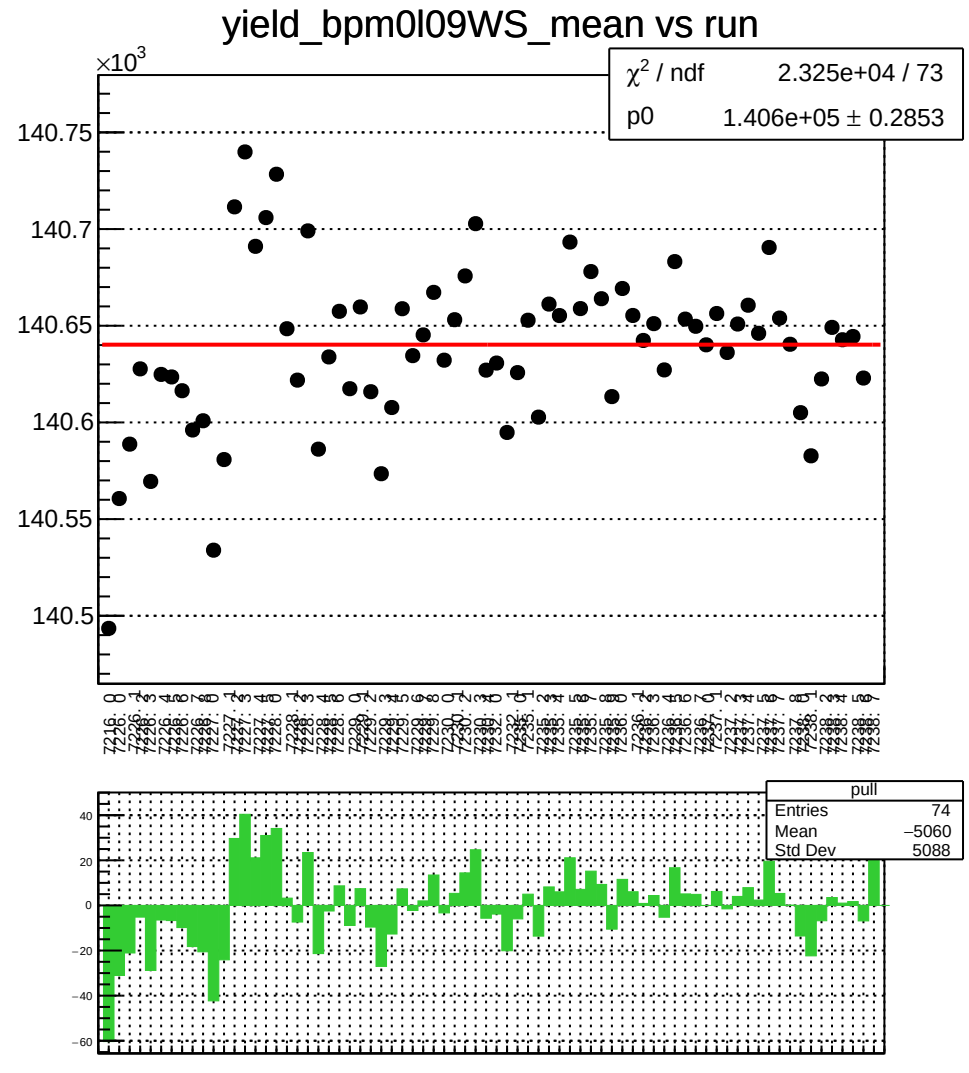

pull1D
Entries 74
Mean −1.336
Std Dev 4.499
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

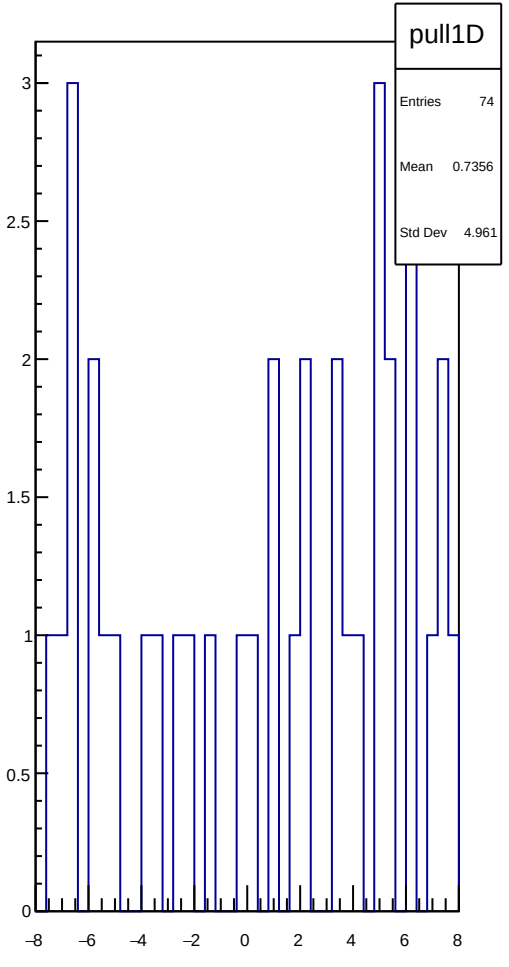

yield_bpm0l07WS_rms vs run
χ² / ndf 2221 / 73
p0 240.4 ± 0.2026
320
300
280
260
240
220

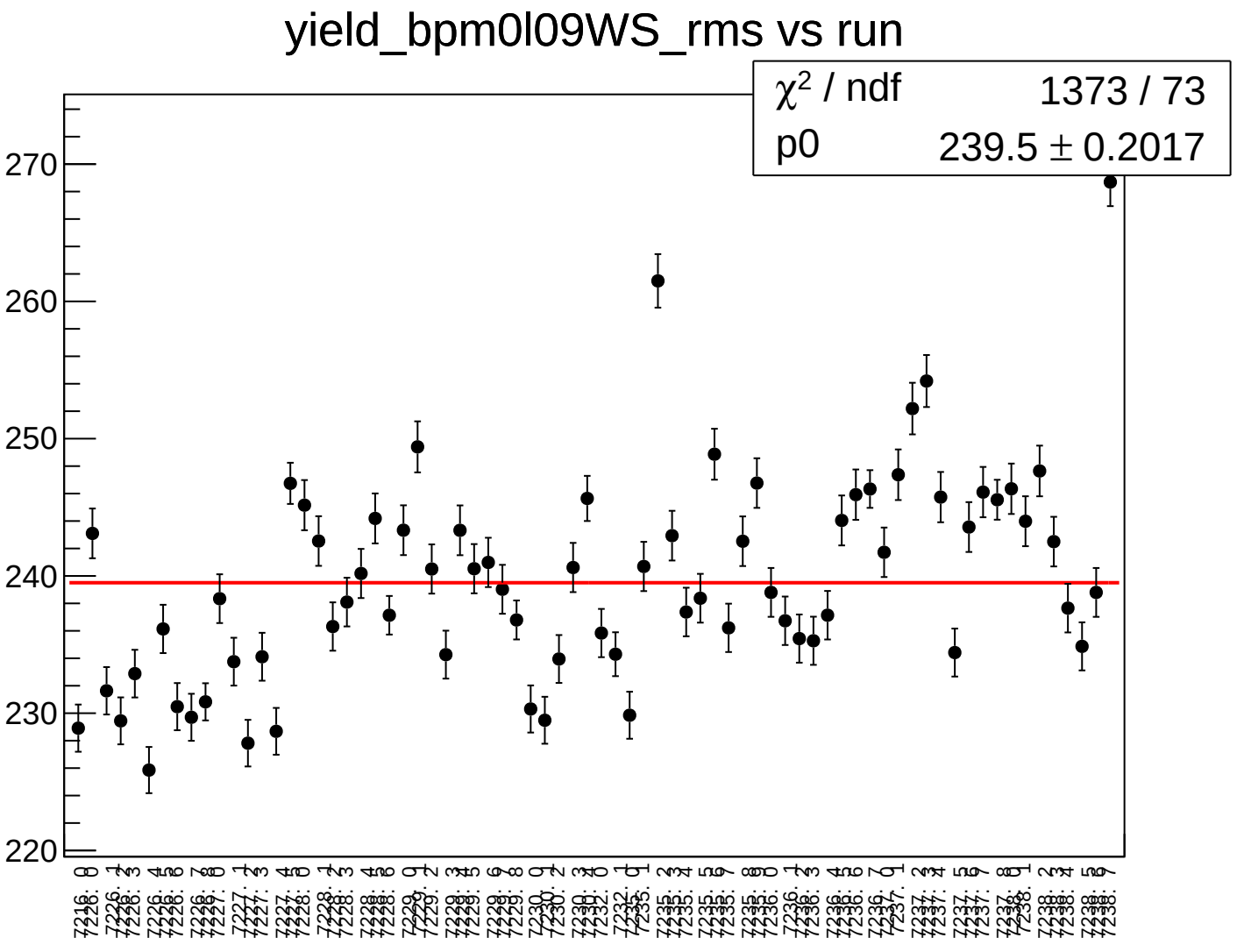

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 3.109e+04 / 73
p0 1.454e+05 ± 0.2893
145.45
145.4
145.35
145.3
145.25
145.2
pull
Entries 74
Mean 1052
Std Dev 1023
20
0
−20
−40
−60

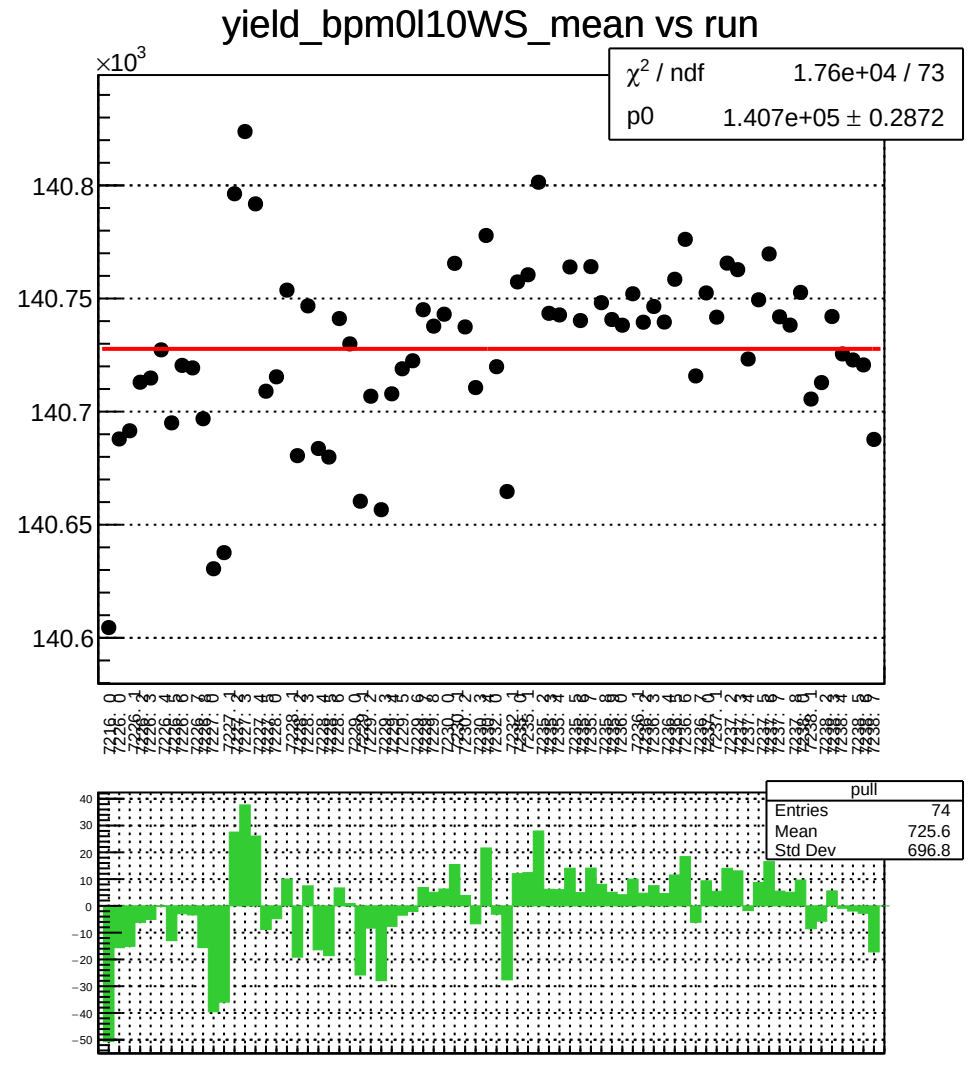

pull1D
Entries 74
Mean 2.28
Std Dev 3.856
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

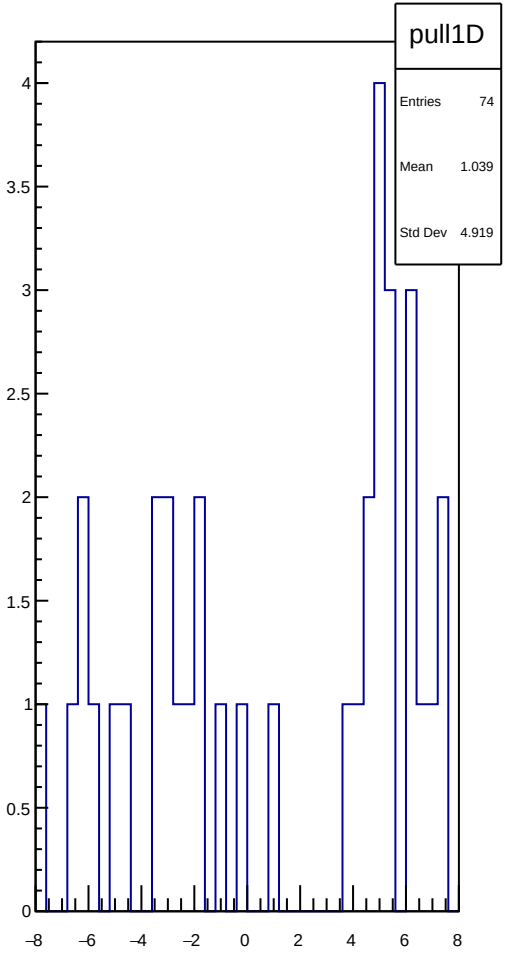

yield_bpm0l08WS_rms vs run
χ² / ndf 1922 / 73
p0 242.8 ± 0.2046
290
280
270
260
250
240
230
220

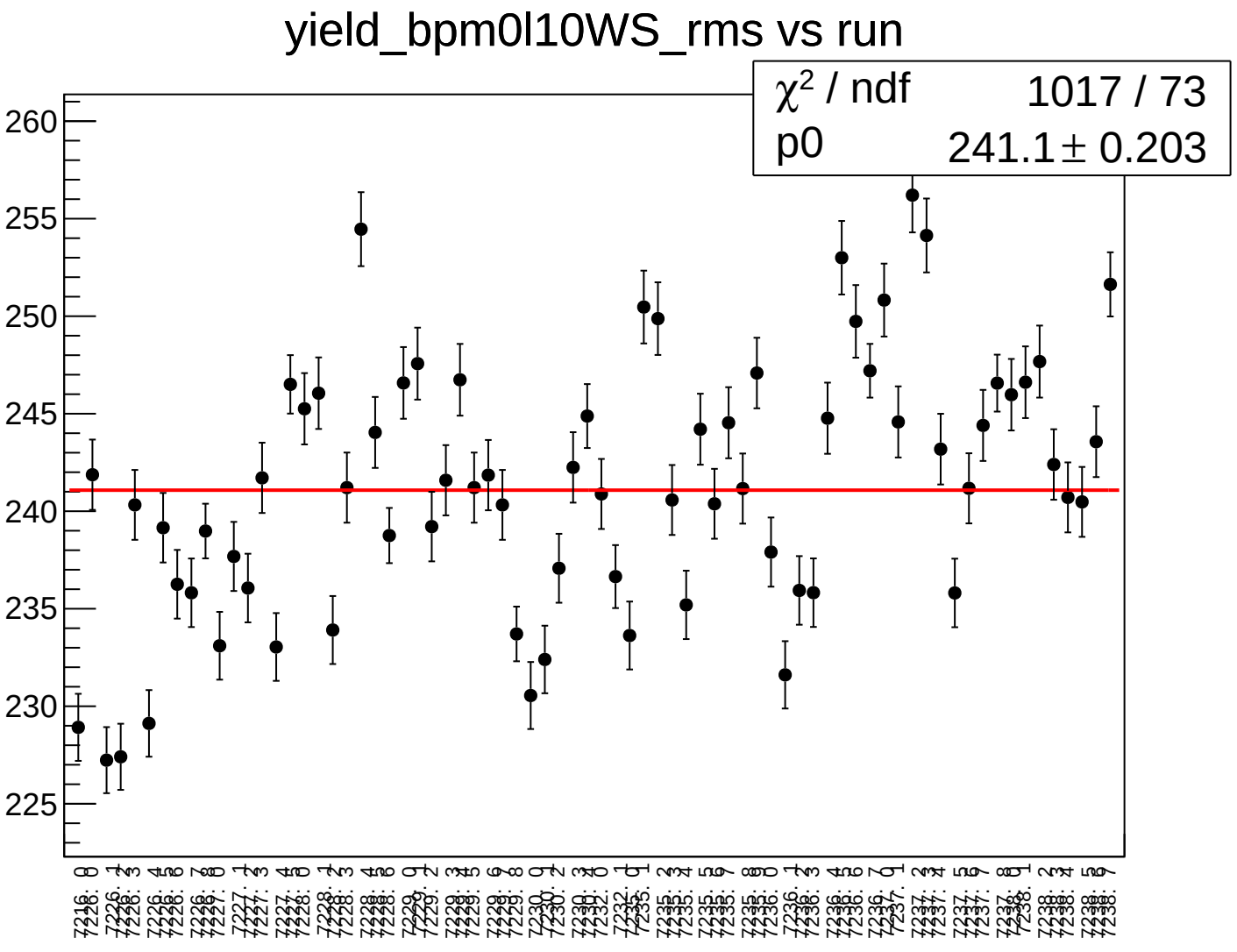

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.325e+04 / 73
p0 1.406e+05 ± 0.2853
140.75
140.7
140.65
140.6
140.55
140.5
pull
Entries 74
Mean −5060
Std Dev 5088
40
20
0
−20
−40
−60

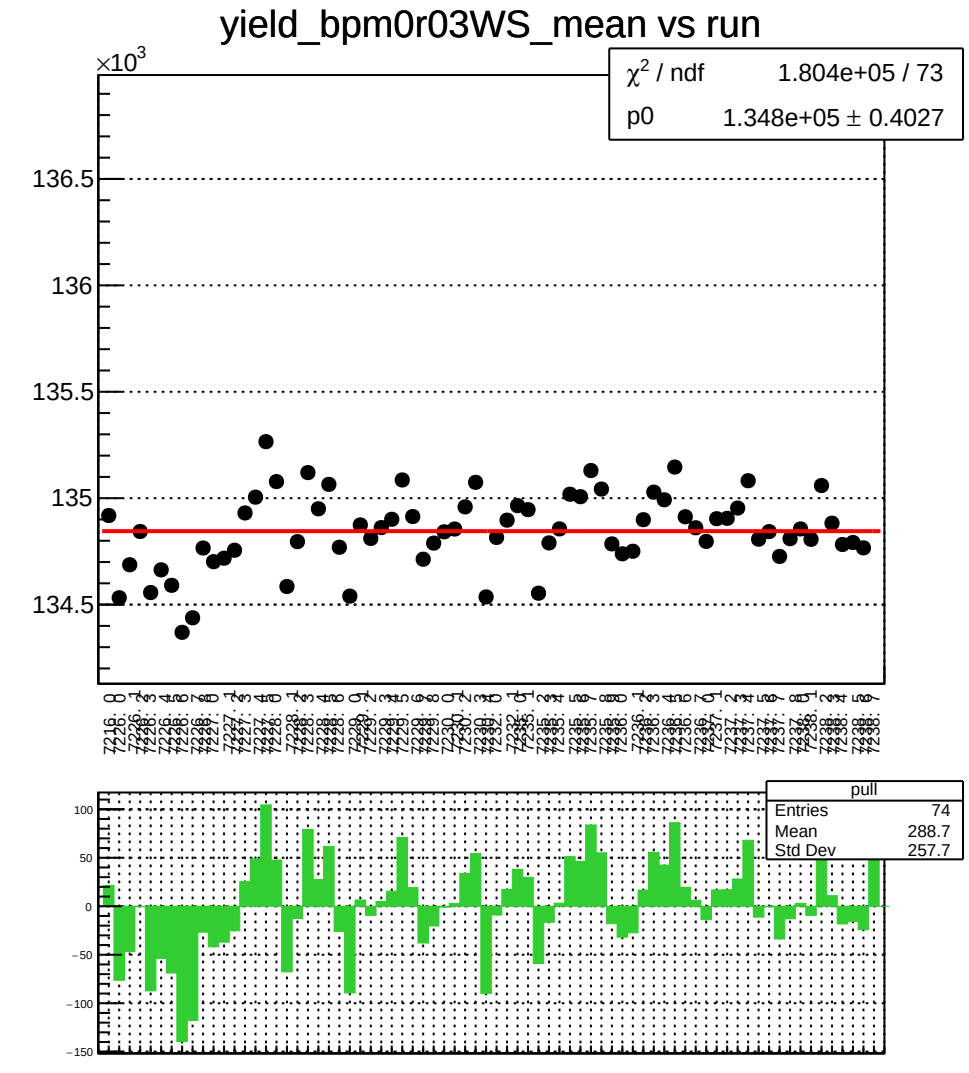

pull1D
Entries 74
Mean 0.7356
Std Dev 4.961
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

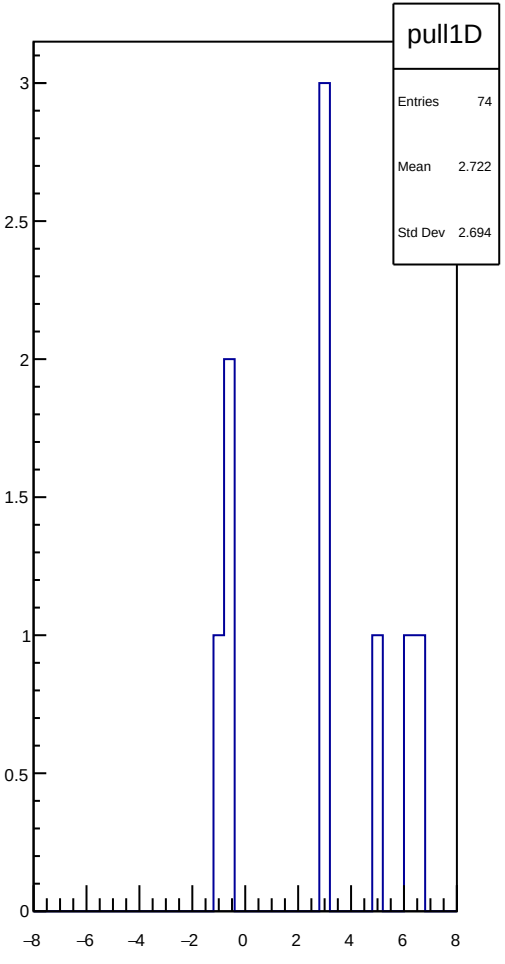

yield_bpm0l09WS_rms vs run
χ² / ndf 1373 / 73
p0 239.5 ± 0.2017
270
260
250
240
230
220

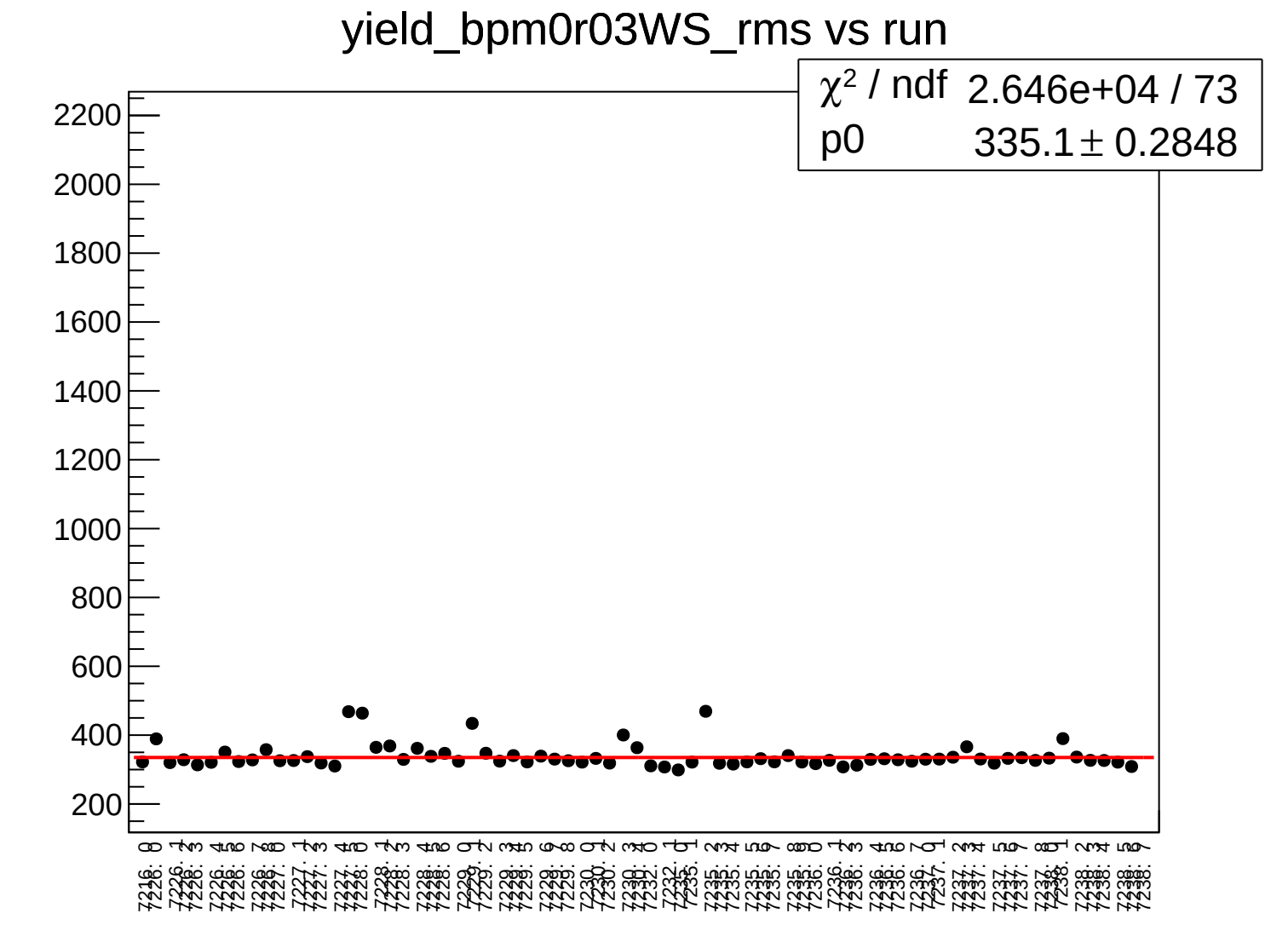

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.76e+04 / 73
p0 1.407e+05 ± 0.2872
140.8
140.75
140.7
140.65
140.6
pull
Entries 74
Mean 725.6
Std Dev 696.8

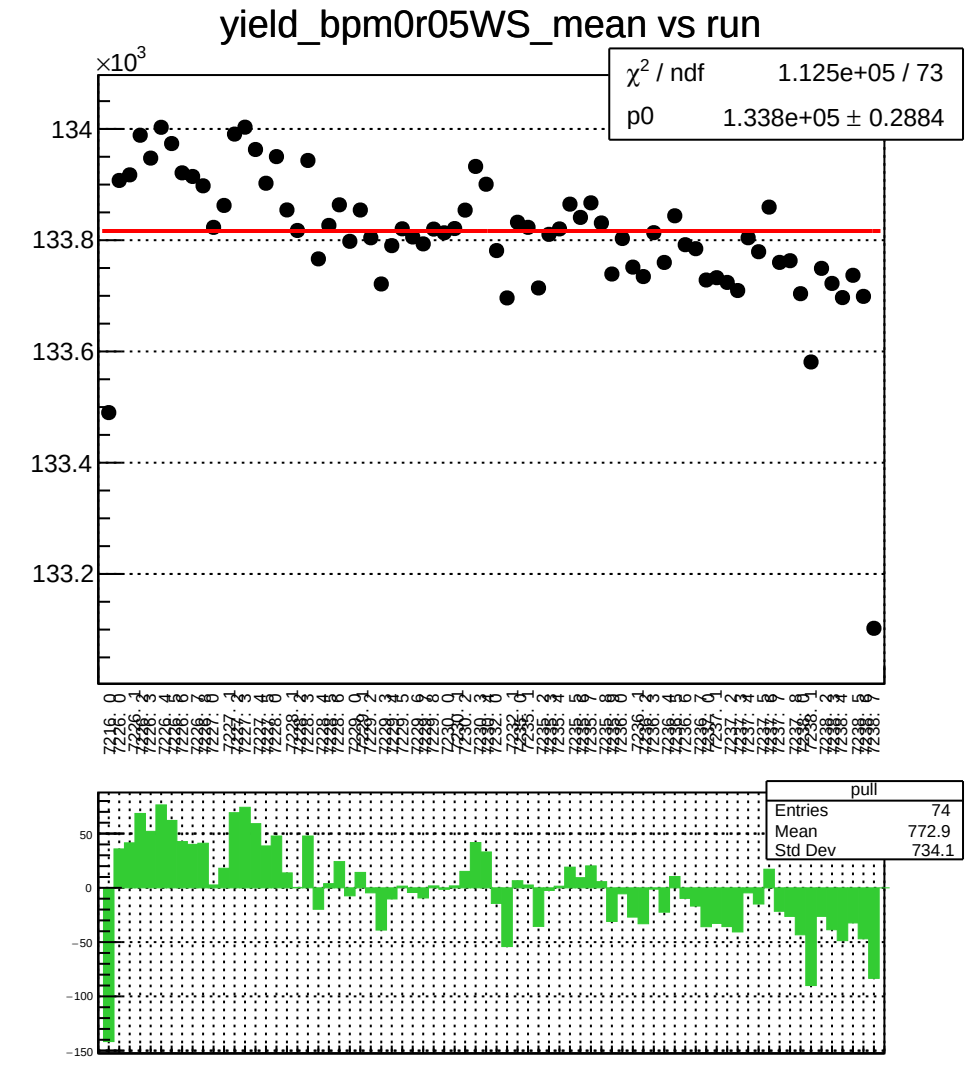

pull1D
Entries 74
Mean 1.039
Std Dev 4.919

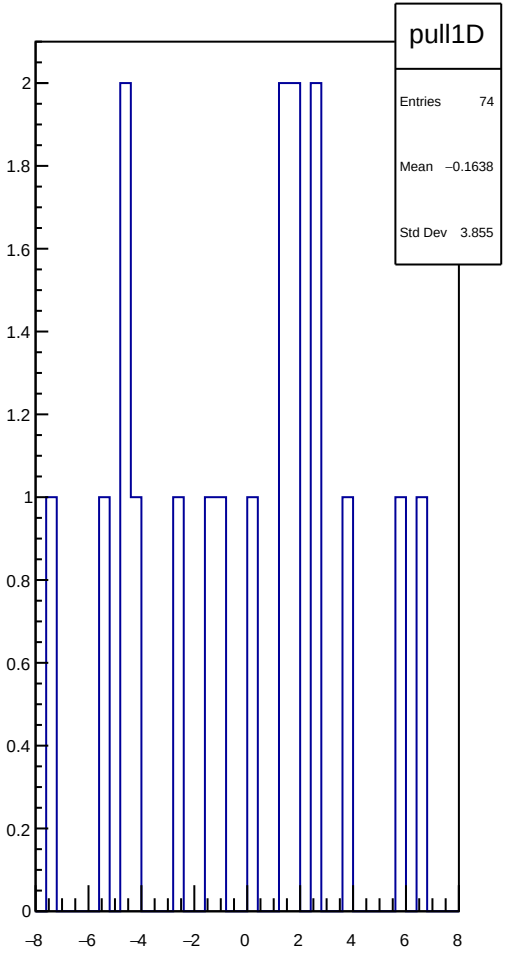

yield_bpm0l10WS_rms vs run
χ² / ndf 1017 / 73
p0 241.1 ± 0.203
260
255
250
245
240
235
230
225

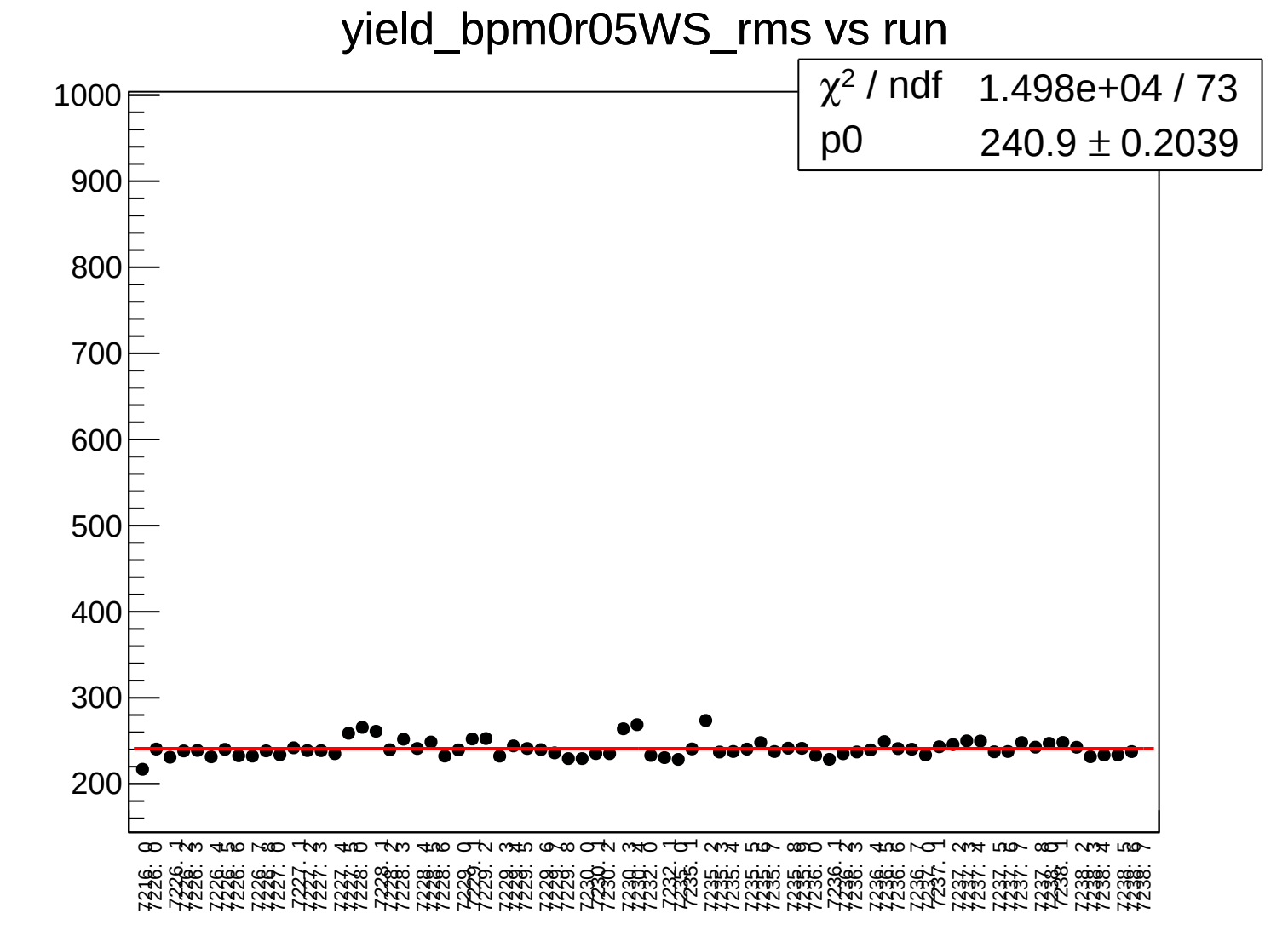

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.804e+05 / 73
p0 1.348e+05 ± 0.4027
136.5
136
135.5
135
134.5
pull
Entries 74
Mean 288.7
Std Dev 257.7
100
50
0
−50
−100
−150

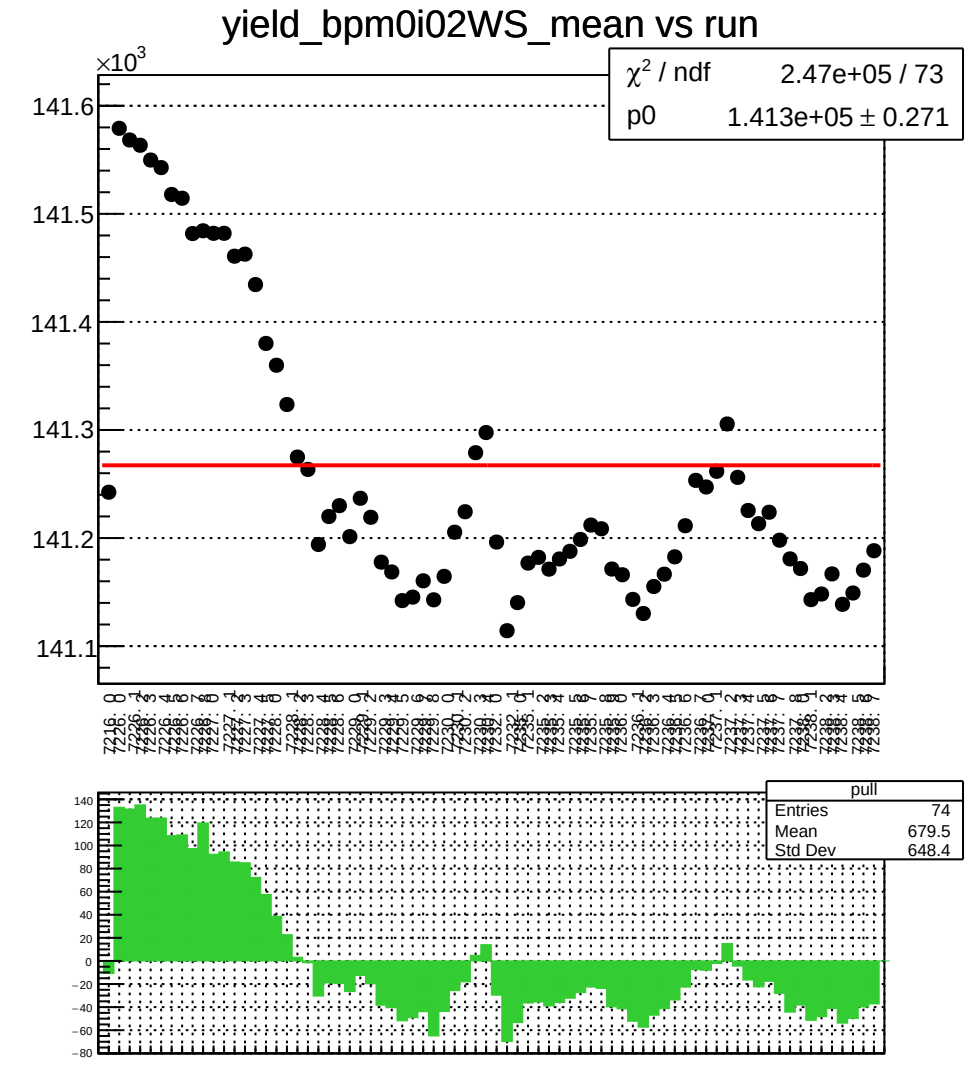

pull1D
Entries 74
Mean 2.722
Std Dev 2.694
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

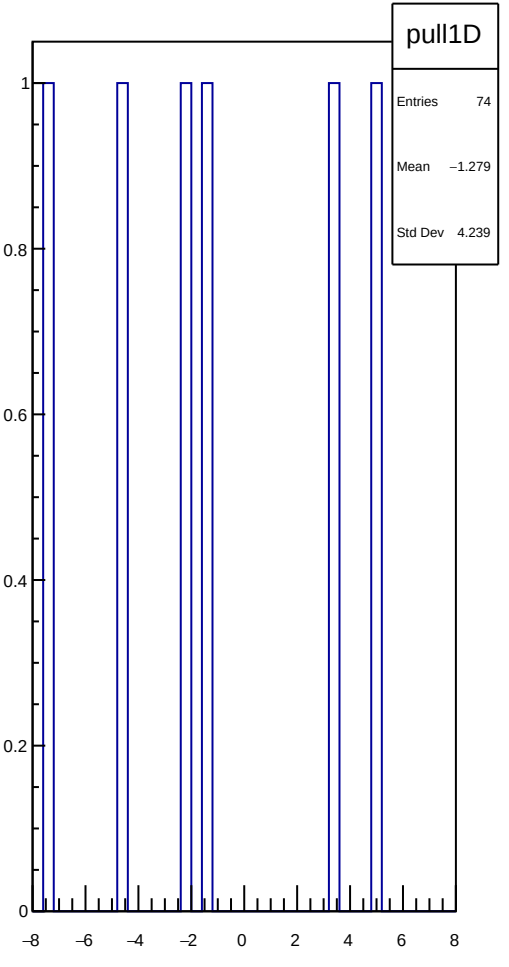

yield_bpm0r03WS_rms vs run
χ² / ndf 2.646e+04 / 73
p0 335.1 ± 0.2848
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

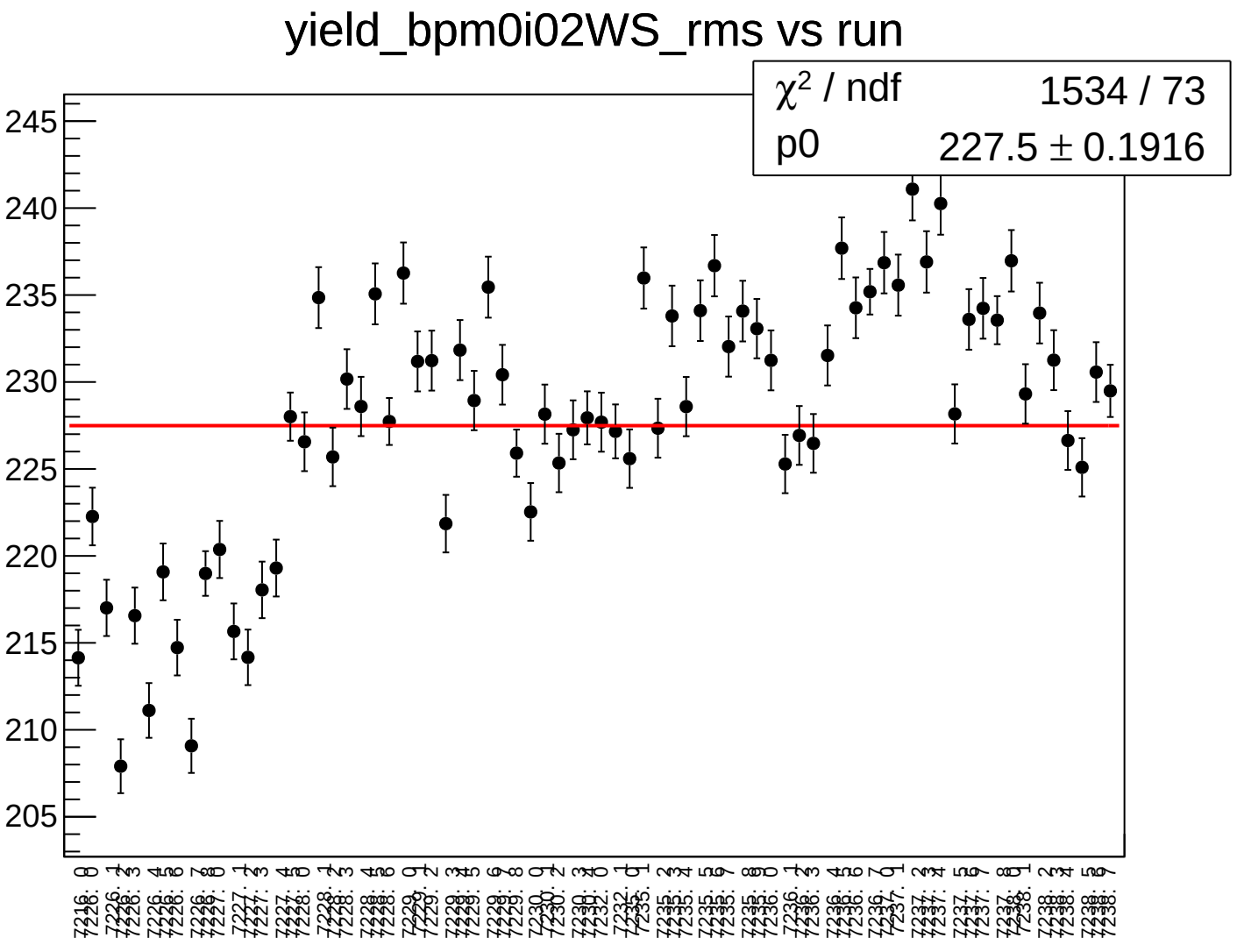

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.125e+05 / 73
p0 1.338e+05 ± 0.2884
134
133.8
133.6
133.4
133.2
pull
Entries 74
Mean 772.9
Std Dev 734.1
50
0
−50
−100
−150

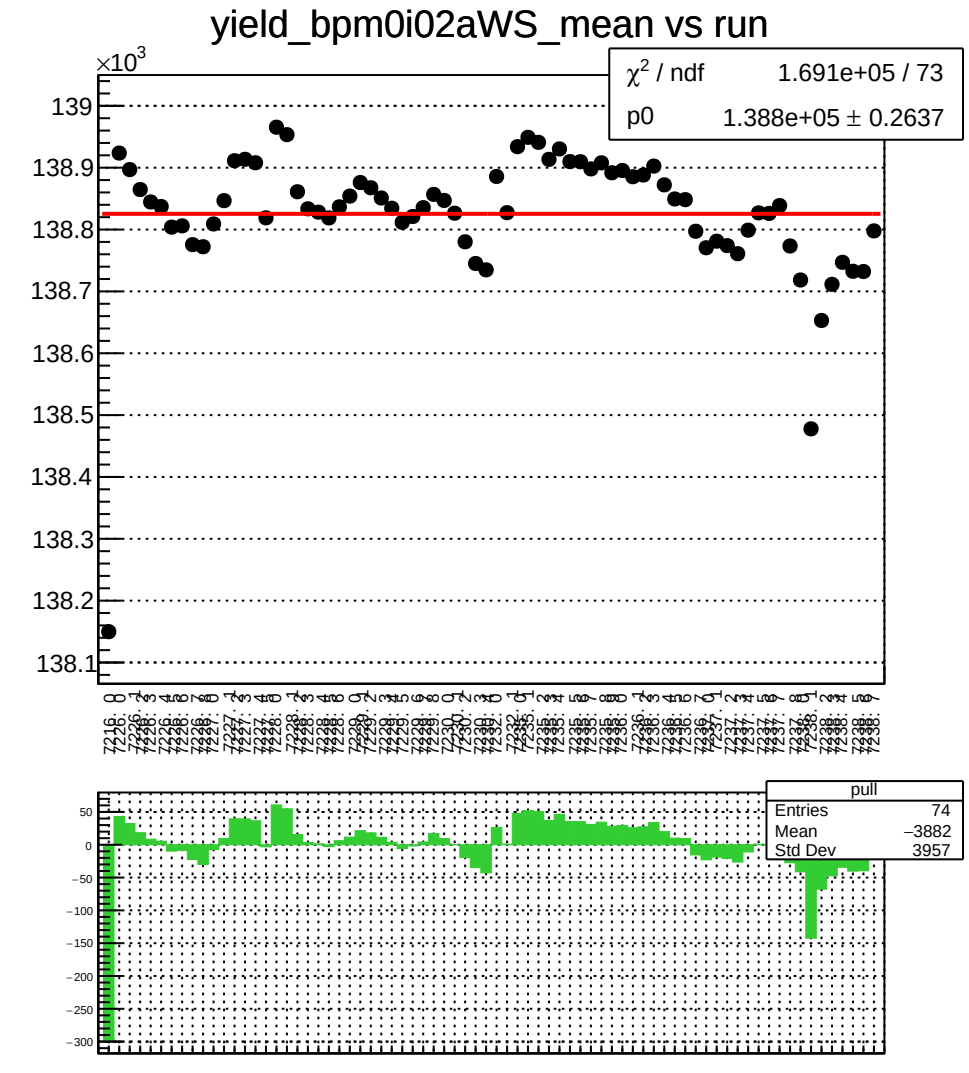

pull1D
Entries 74
Mean −0.1638
Std Dev 3.855
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

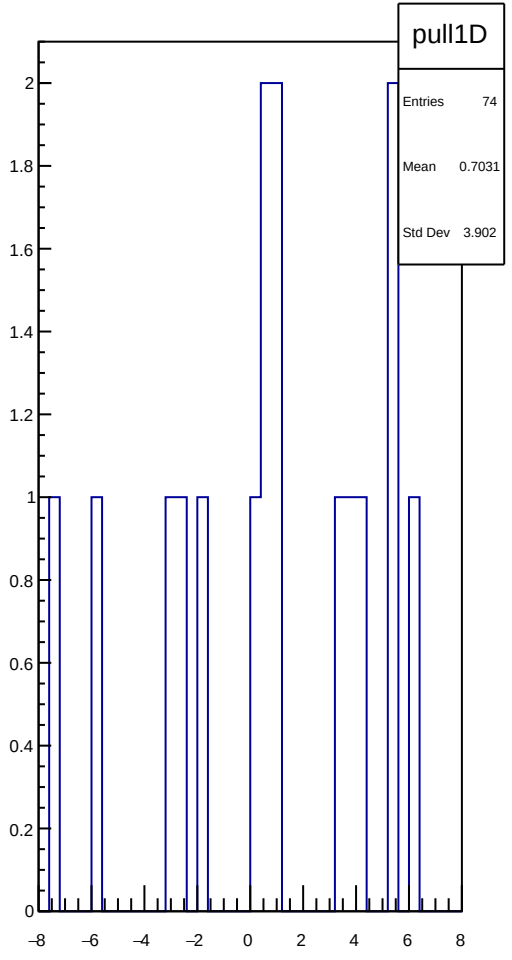

yield_bpm0r05WS_rms vs run
χ² / ndf 1.498e+04 / 73
p0 240.9 ± 0.2039
1000
900
800
700
600
500
400
300
200

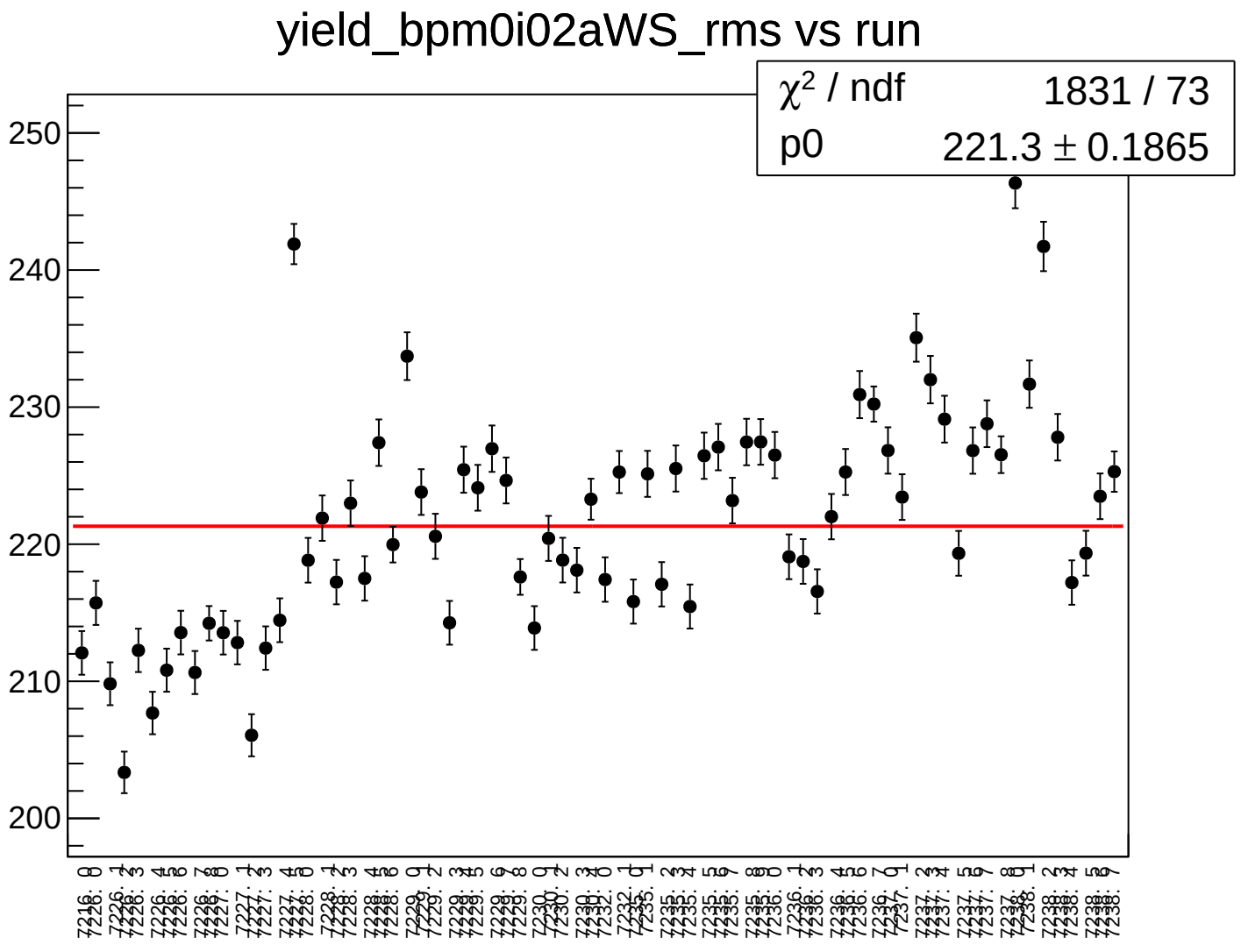

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.47e+05 / 73
p0 1.413e+05 ± 0.271
141.6
141.5
141.4
141.3
141.2
141.1
pull
Entries 74
Mean 679.5
Std Dev 648.4
140
120
100
80
60
40
20
0
−20
−40
−60
−80

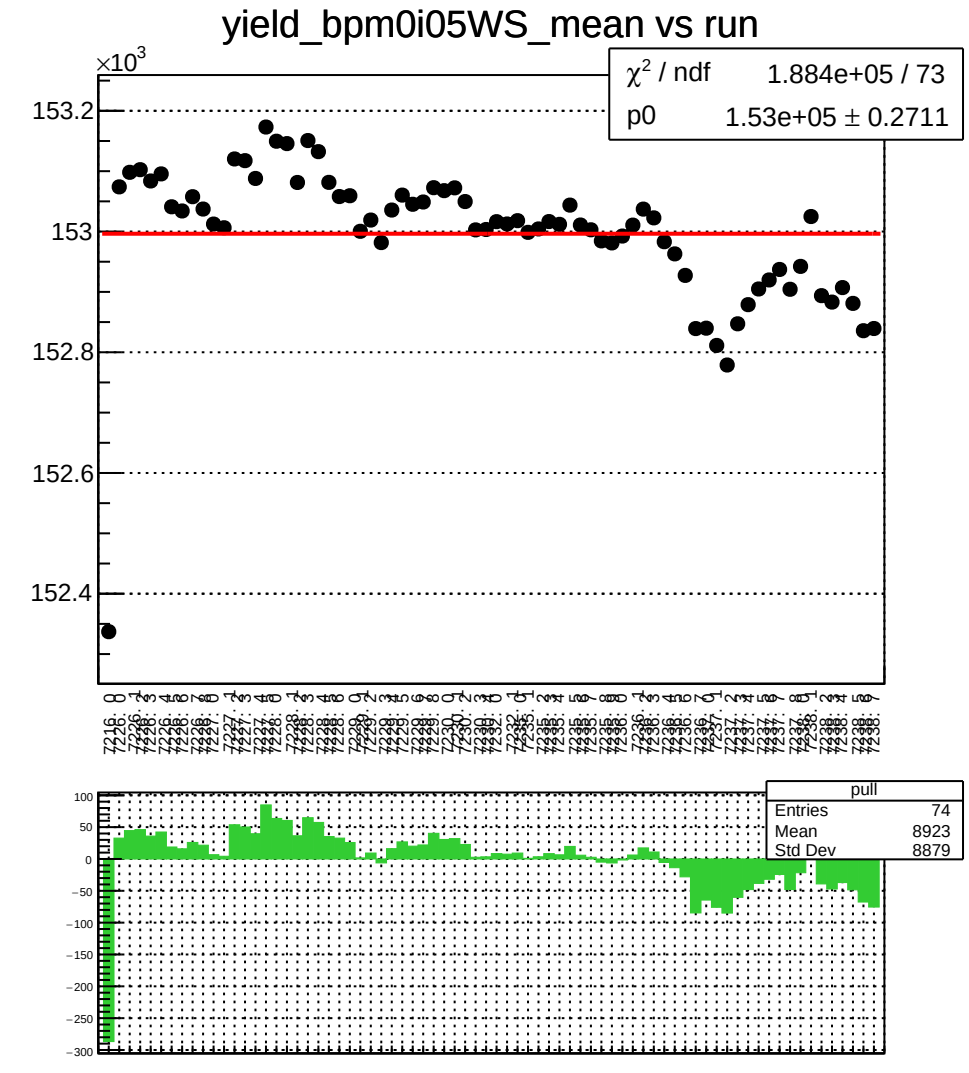

pull1D
Entries 74
Mean −1.279
Std Dev 4.239
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

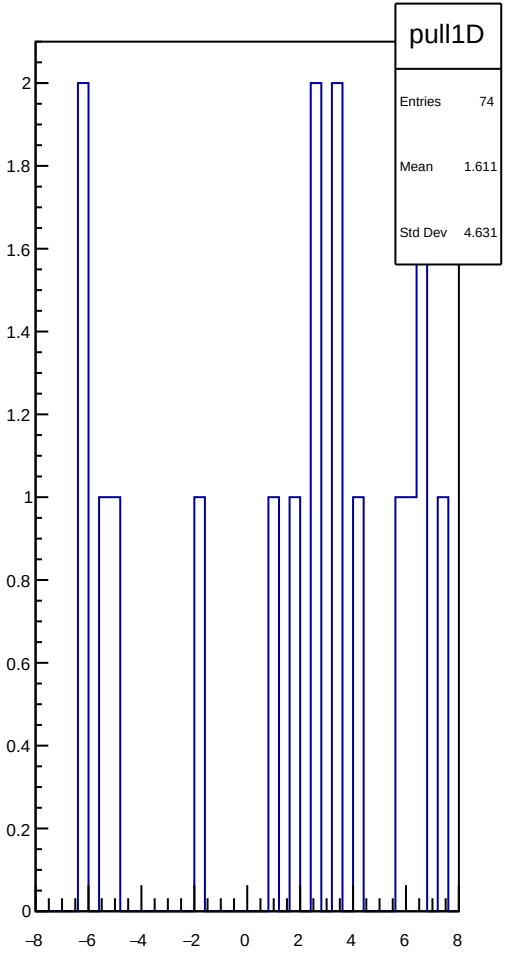

yield_bpm0i02WS_rms vs run
χ² / ndf 1534 / 73
p0 227.5 ± 0.1916
245
240
235
230
225
220
215
210
205

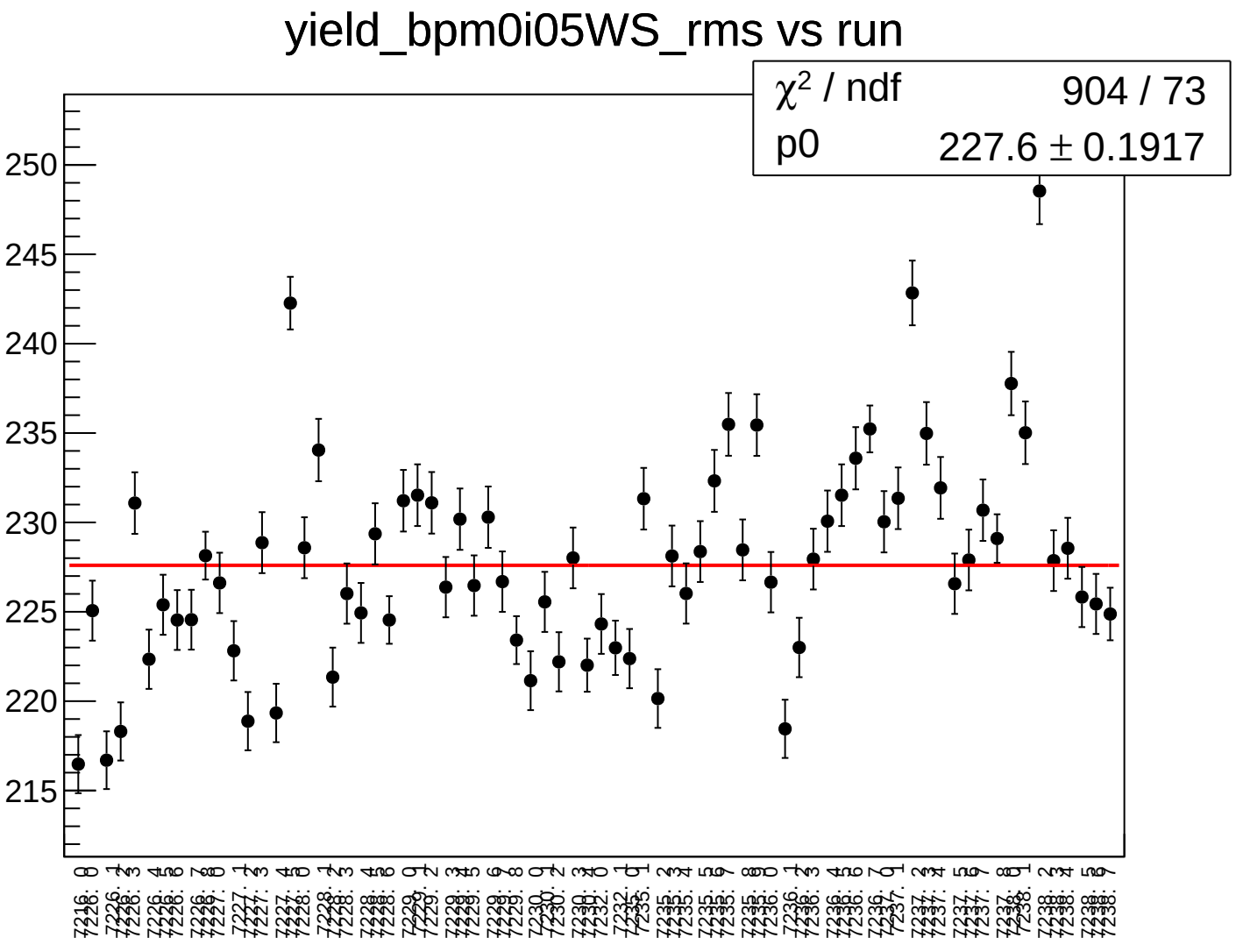

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.691e+05 / 73
p0 1.388e+05 ± 0.2637
pull
Entries 74
Mean −3882
Std Dev 3957

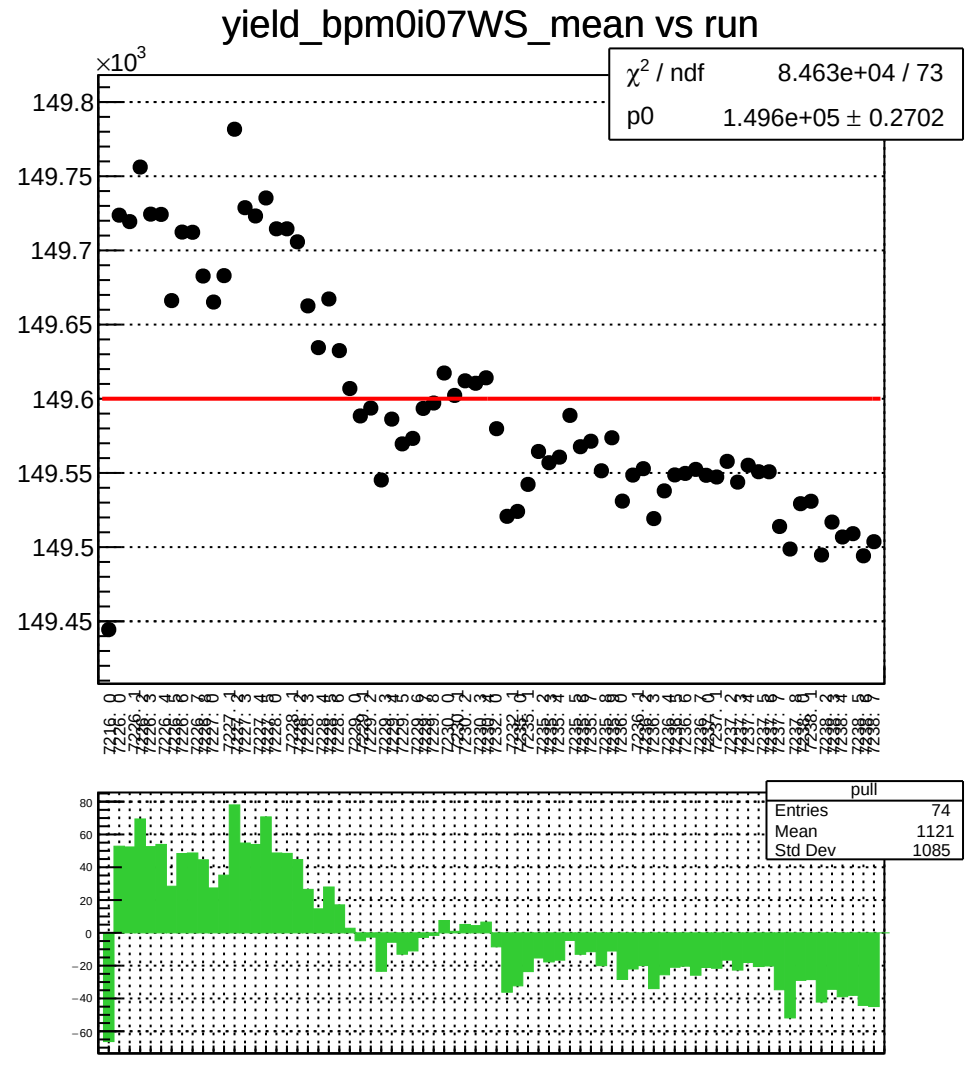

pull1D
Entries 74
Mean 0.7031
Std Dev 3.902

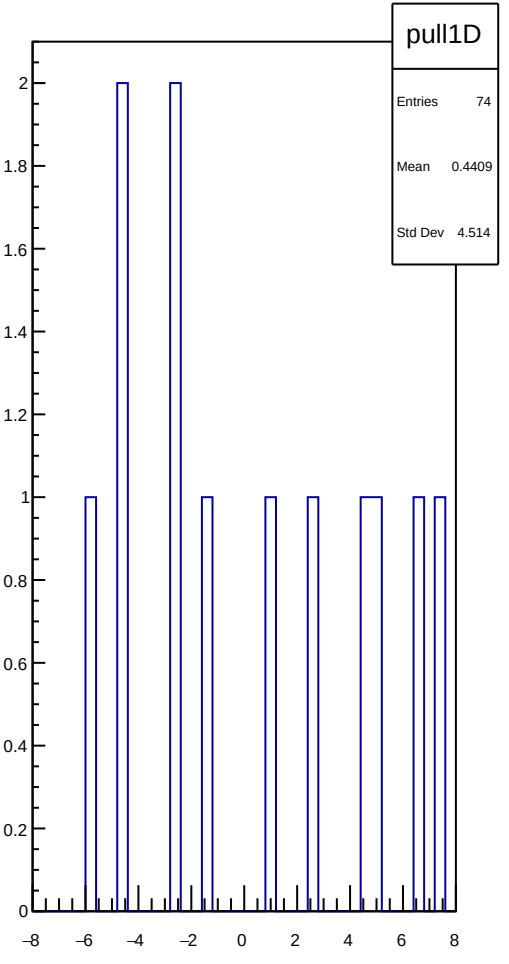

yield_bpm0i02aWS_rms vs run
χ² / ndf 1831 / 73
p0 221.3 ± 0.1865
250
240
230
220
210
200

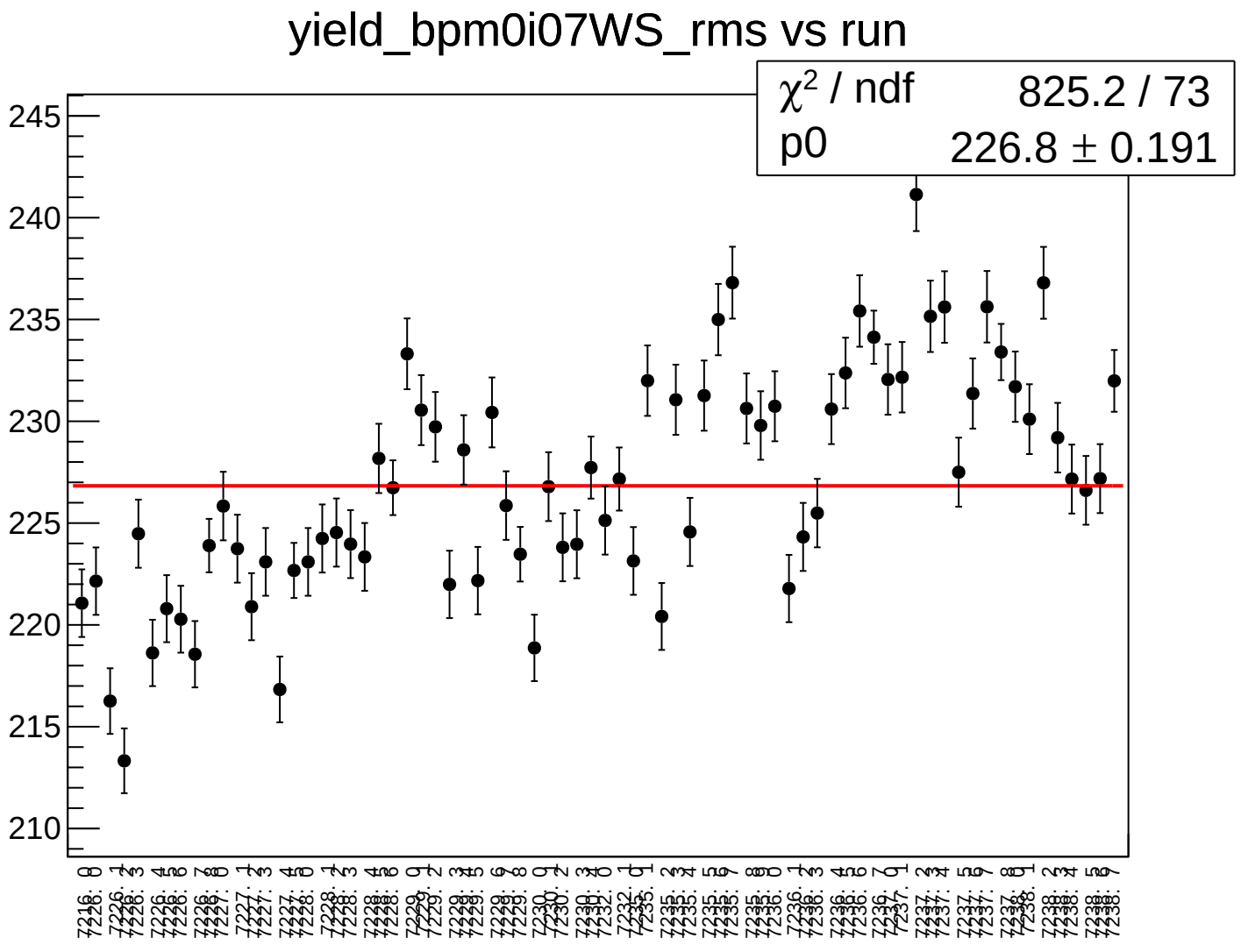

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.884e+05 / 73
p0 1.53e+05 ± 0.2711
153.2
153
152.8
152.6
152.4
pull
Entries 74
Mean 8923
Std Dev 8879
100
50
0
−50
−100
−150
−200
−250
−300

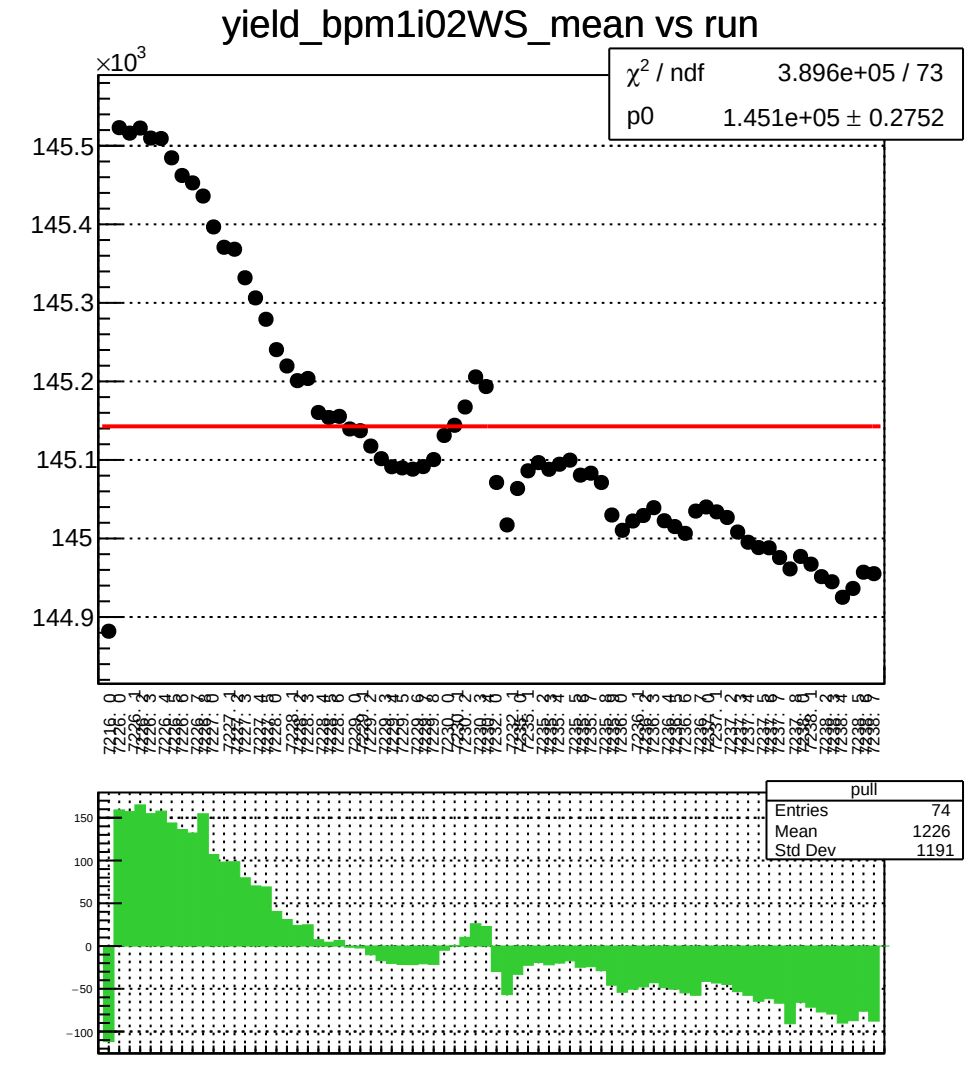

pull1D
Entries 74
Mean 1.611
Std Dev 4.631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

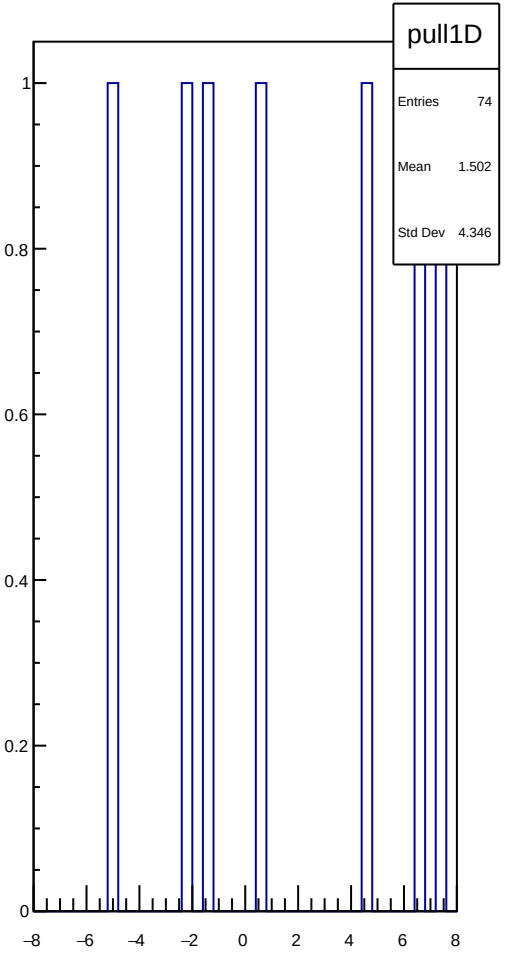

yield_bpm0i05WS_rms vs run
χ² / ndf 904 / 73
p0 227.6 ± 0.1917
250
245
240
235
230
225
220
215

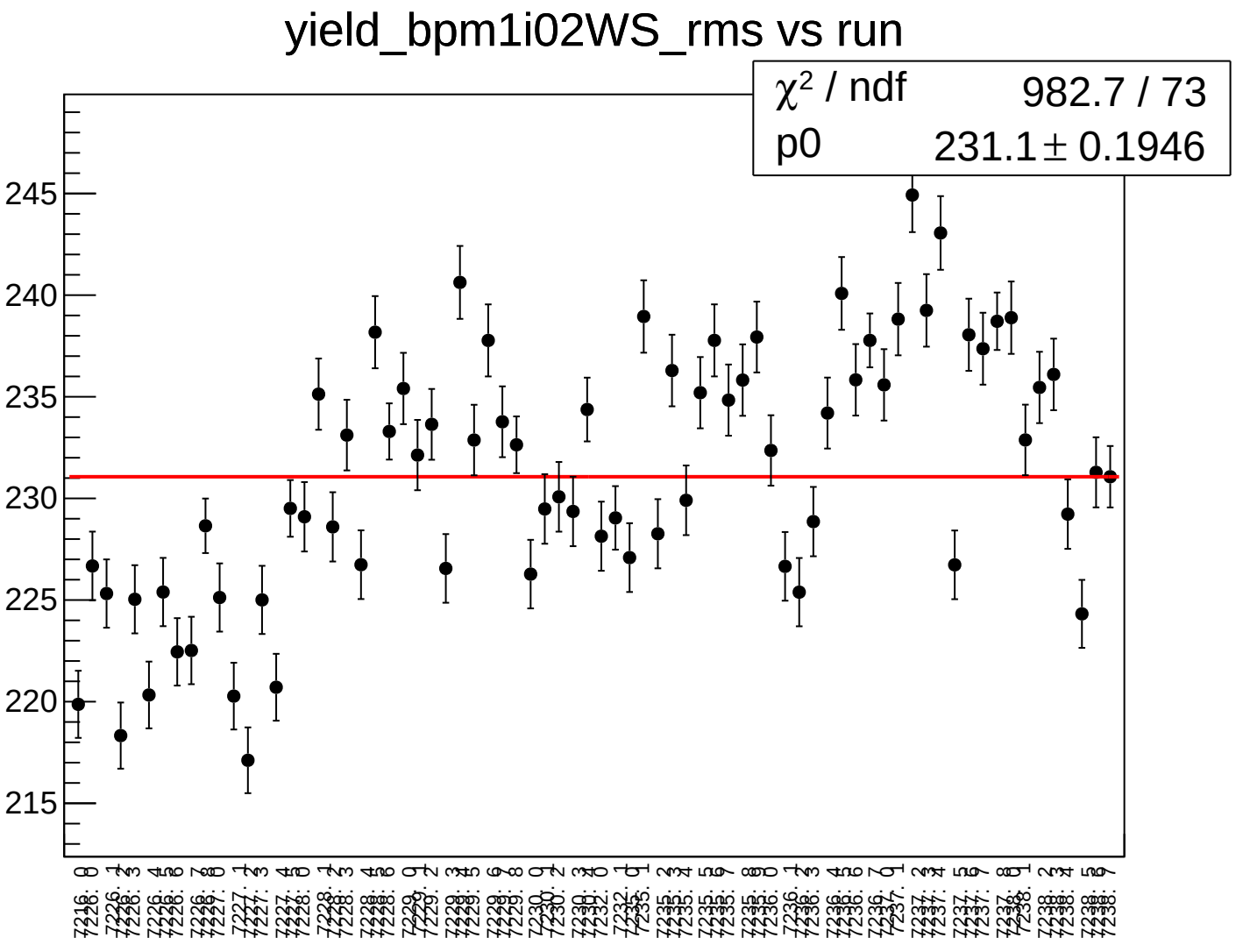

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 8.463e+04 / 73
p0 1.496e+05 ± 0.2702
149.8
149.75
149.7
149.65
149.6
149.55
149.5
149.45
pull
Entries 74
Mean 1121
Std Dev 1085
80
60
40
20
0
−20
−40
−60

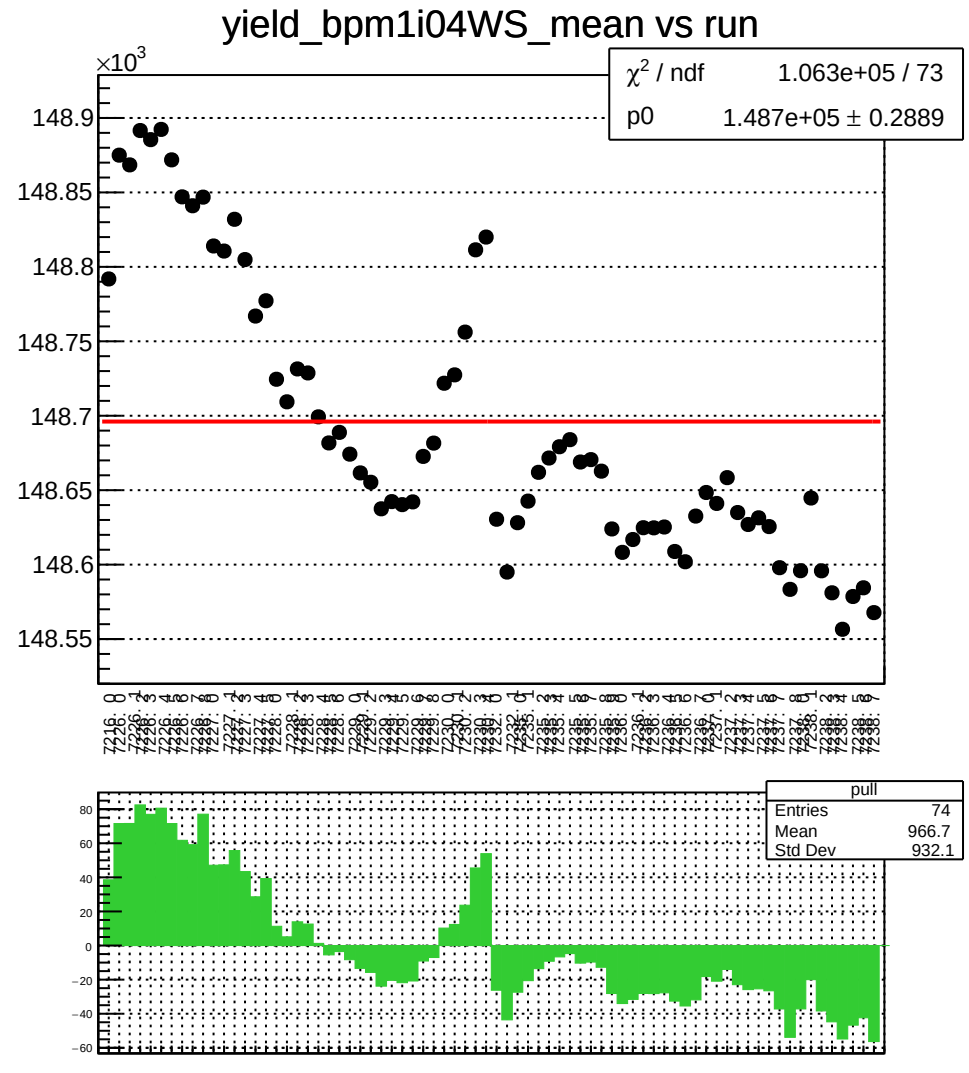

pull1D
Entries 74
Mean 0.4409
Std Dev 4.514
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

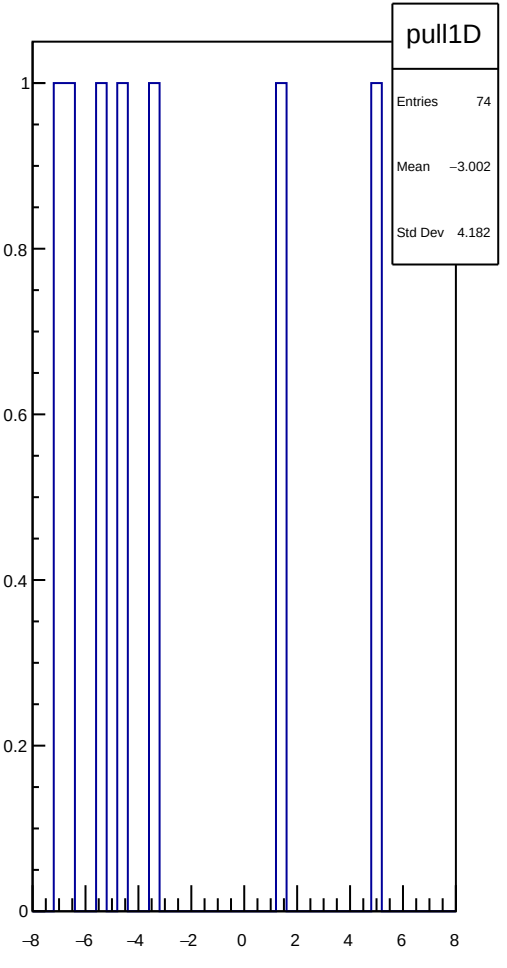

yield_bpm0i07WS_rms vs run
χ² / ndf 825.2 / 73
p0 226.8 ± 0.191
245
240
235
230
225
220
215
210

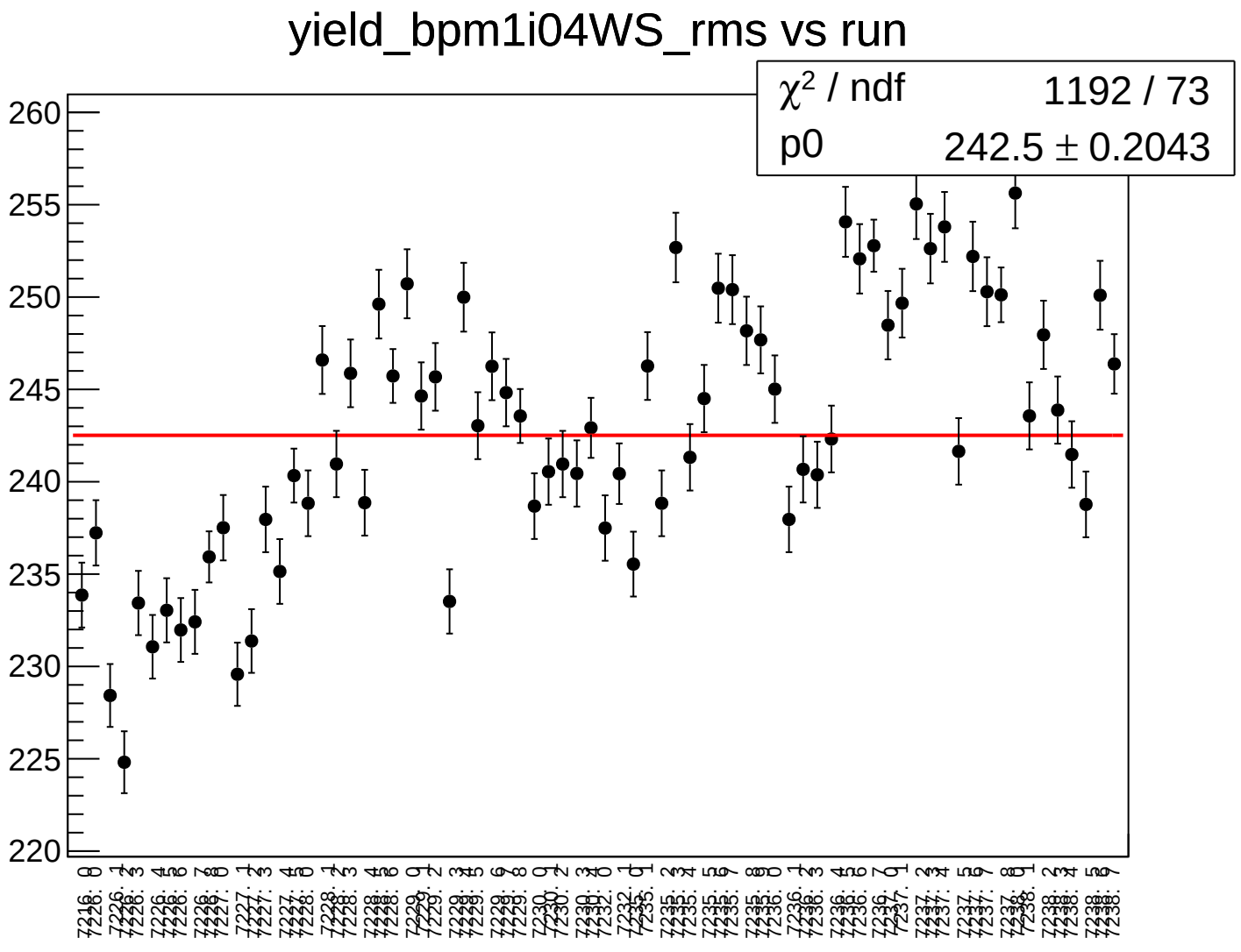

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.896e+05 / 73
p0 1.451e+05 ± 0.2752
145.5
145.4
145.3
145.2
145.1
145
144.9
pull
Entries 74
Mean 1226
Std Dev 1191
150
100
50
0
−50
−100

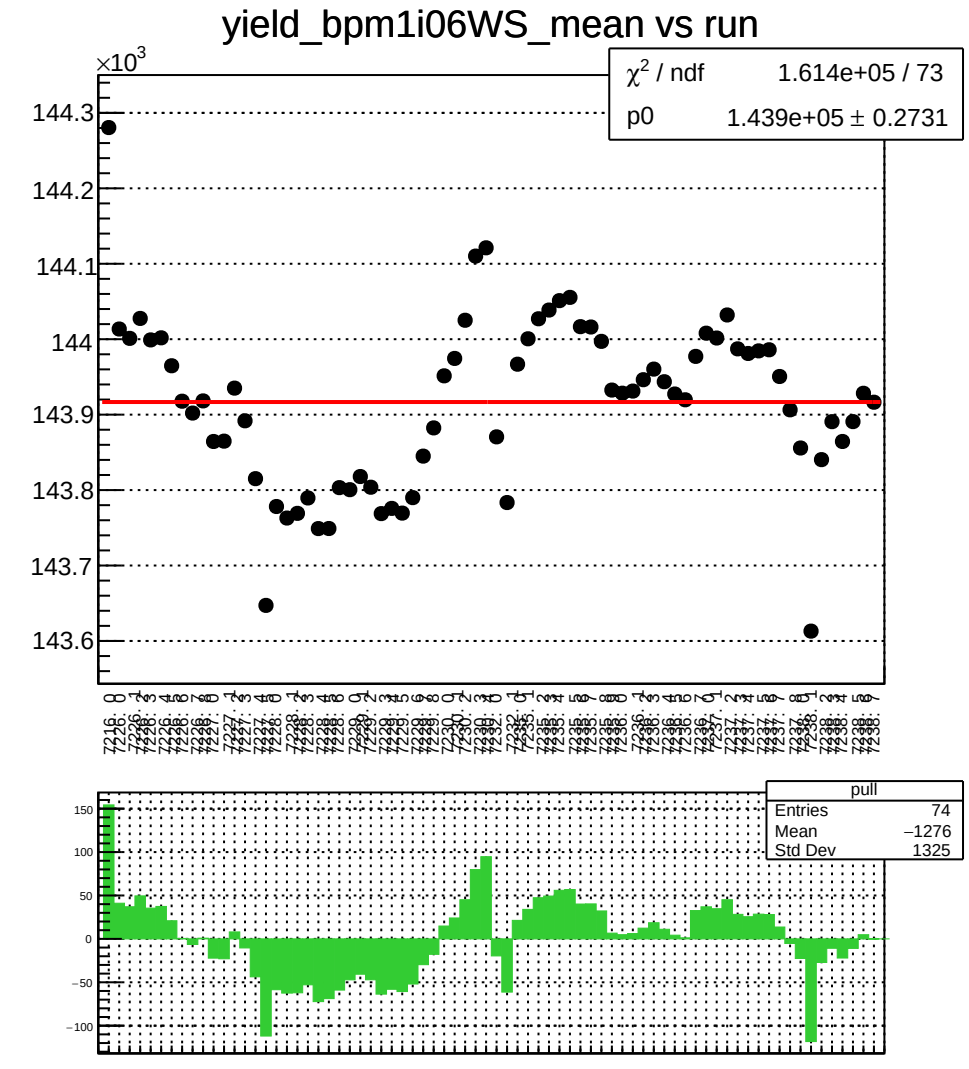

pull1D
Entries 74
Mean 1.502
Std Dev 4.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

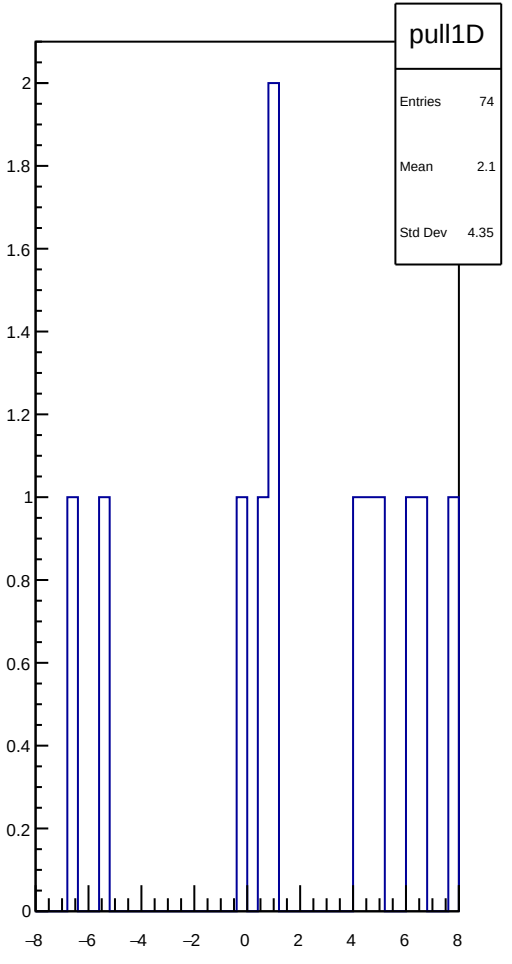

yield_bpm1i02WS_rms vs run
χ² / ndf 982.7 / 73
p0 231.1 ± 0.1946
245
240
235
230
225
220
215

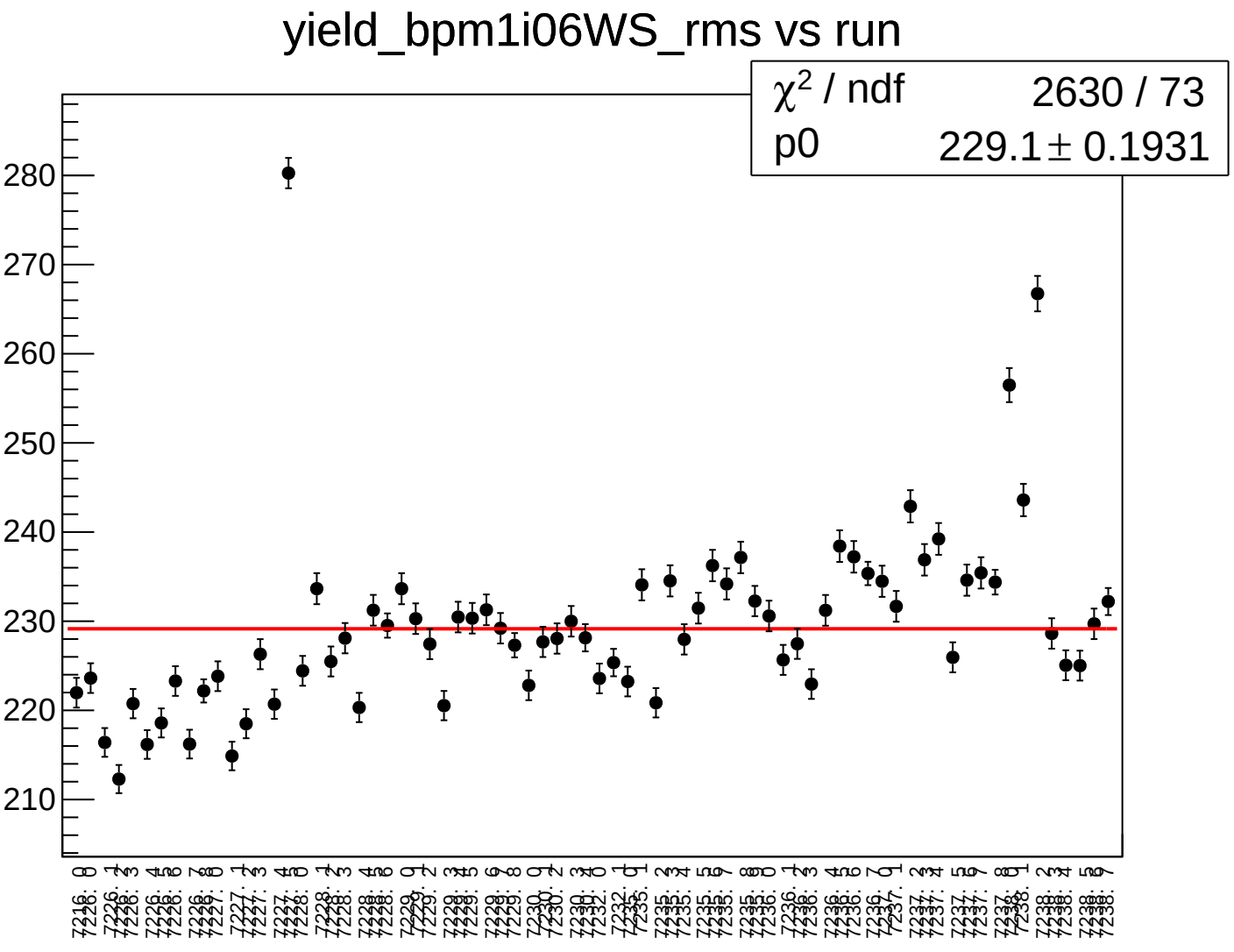

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.063e+05 / 73
p0 1.487e+05 ± 0.2889
148.9
148.85
148.8
148.75
148.7
148.65
148.6
148.55
pull
Entries 74
Mean 966.7
Std Dev 932.1
80
60
40
20
0
−20
−40
−60

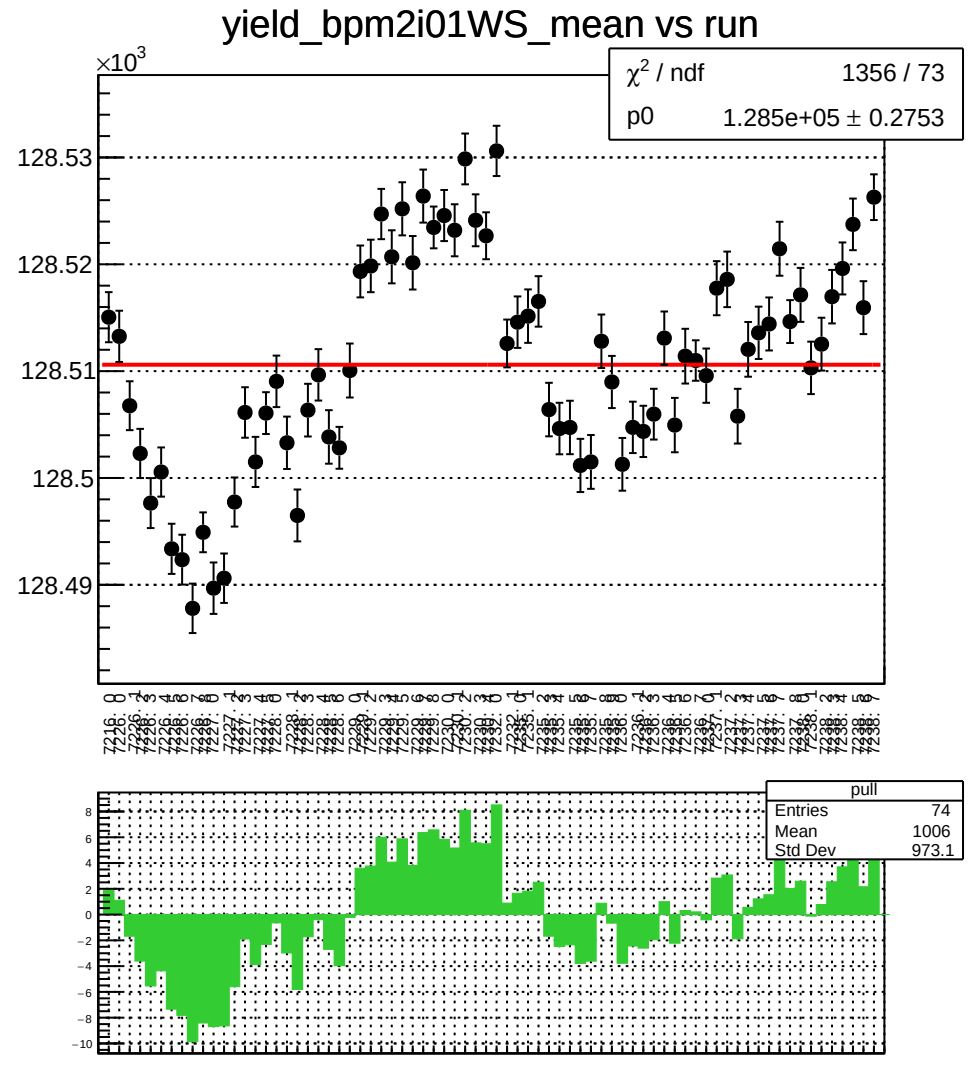

pull1D
Entries 74
Mean −3.002
Std Dev 4.182
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

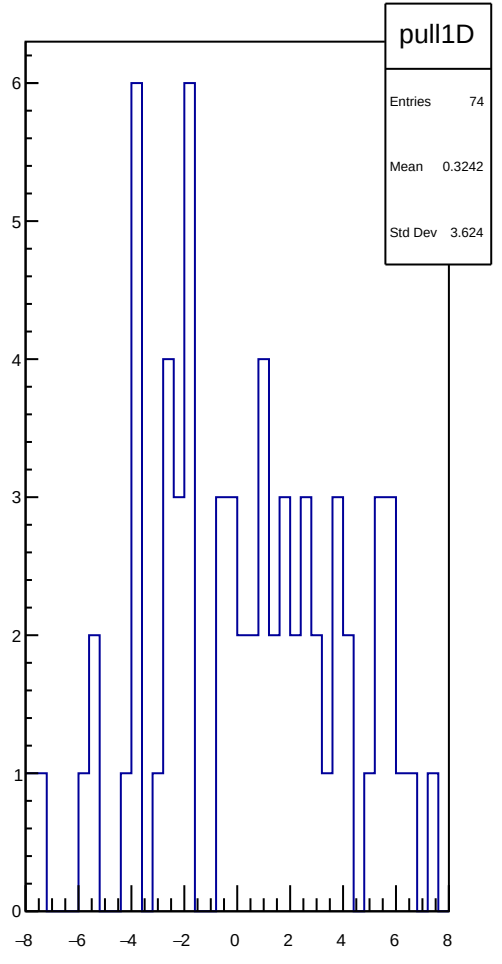

yield_bpm1i04WS_rms vs run
χ² / ndf 1192 / 73
p0 242.5 ± 0.2043
260
255
250
245
240
235
230
225
220

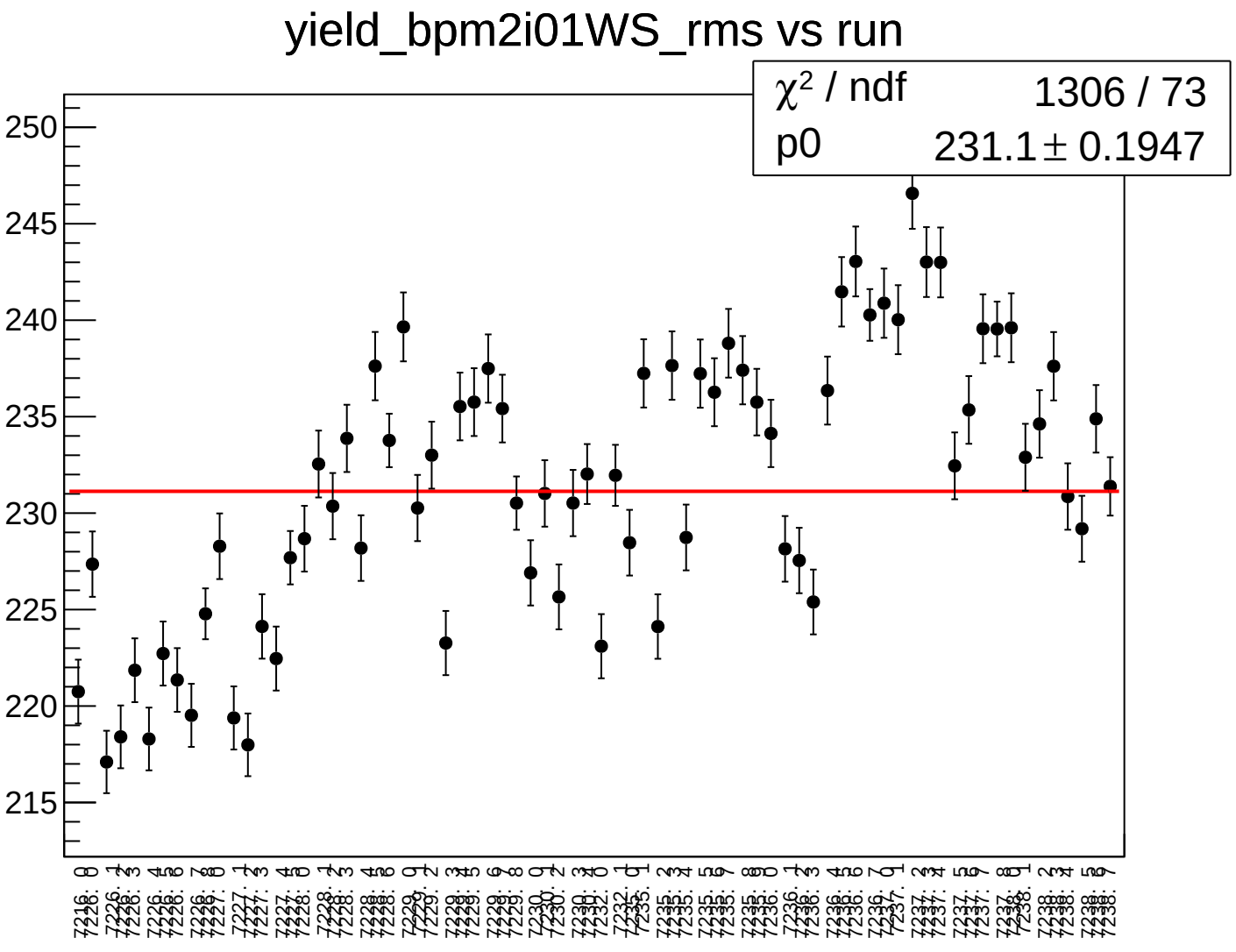

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.614e+05 / 73
p0 1.439e+05 ± 0.2731
144.3
144.2
144.1
144
143.9
143.8
143.7
143.6
pull
Entries 74
Mean −1276
Std Dev 1325
150
100
50
0
−50
−100

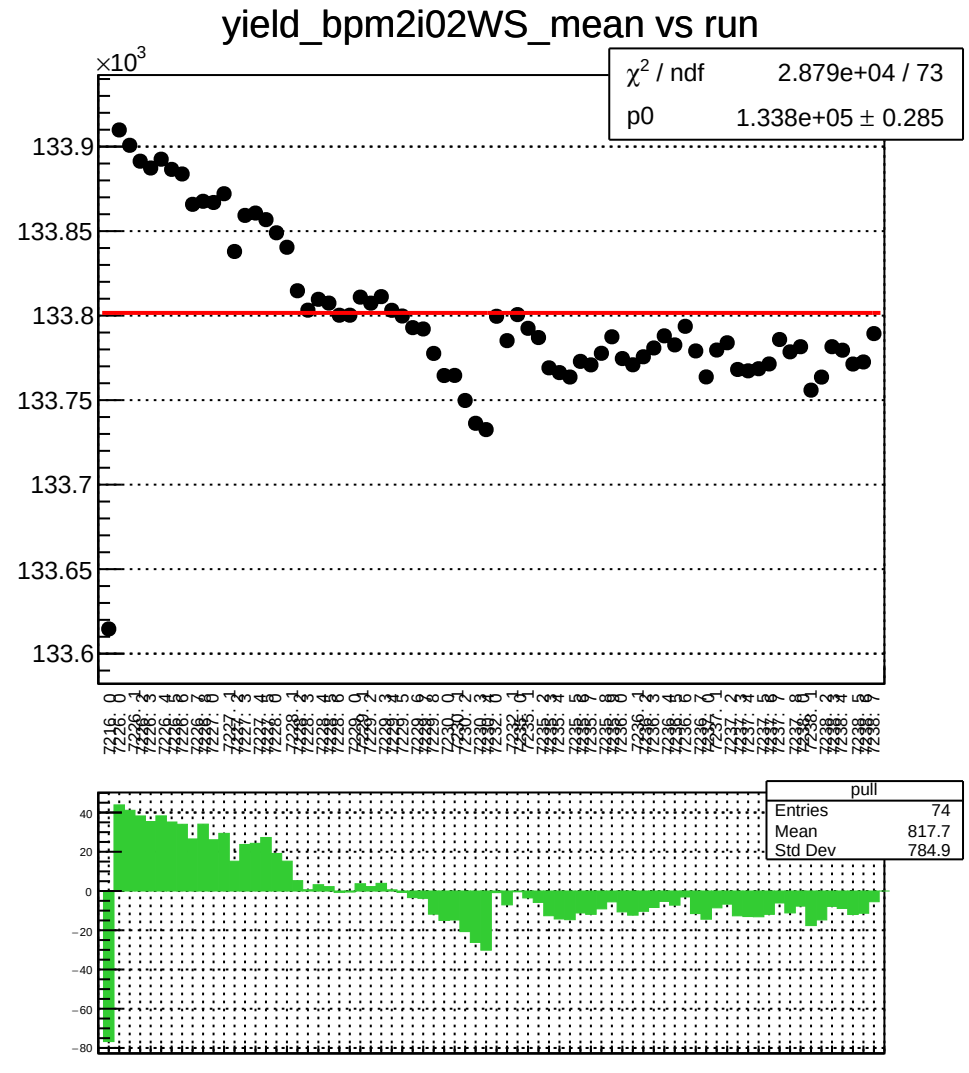

pull1D
Entries 74
Mean 2.1
Std Dev 4.35
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

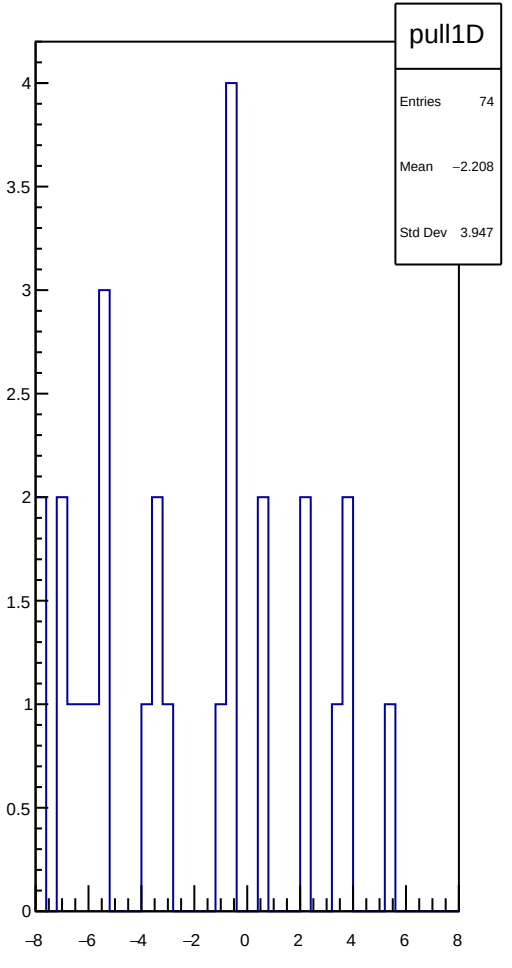

yield_bpm1i06WS_rms vs run
χ^2 / ndf 2630 / 73
p0 229.1 ± 0.1931
280
270
260
250
240
230
220
210

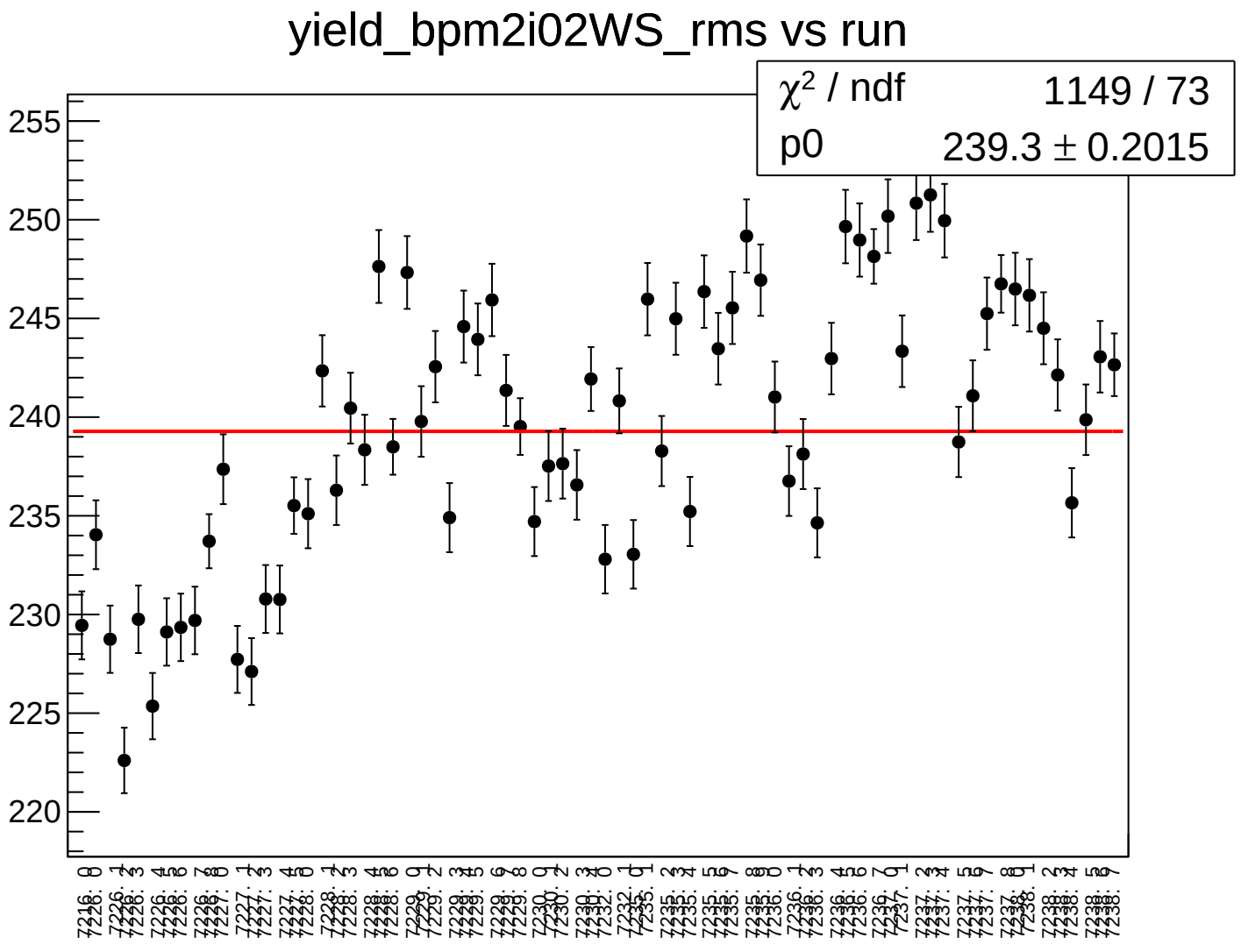

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1356 / 73
p0 1.285e+05 ± 0.2753
128.53
128.52
128.51
128.5
128.49
pull
Entries 74
Mean 1006
Std Dev 973.1

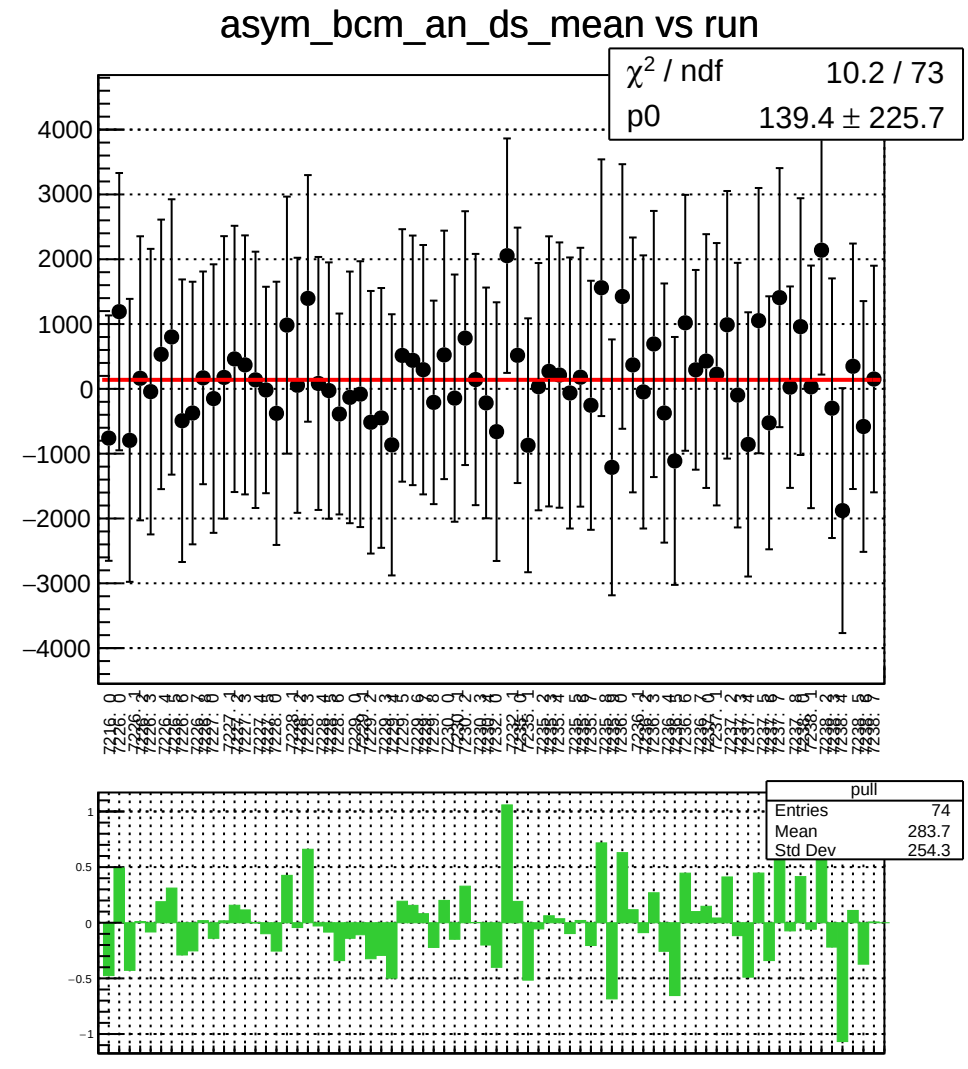

pull1D
Entries 74
Mean 0.3242
Std Dev 3.624

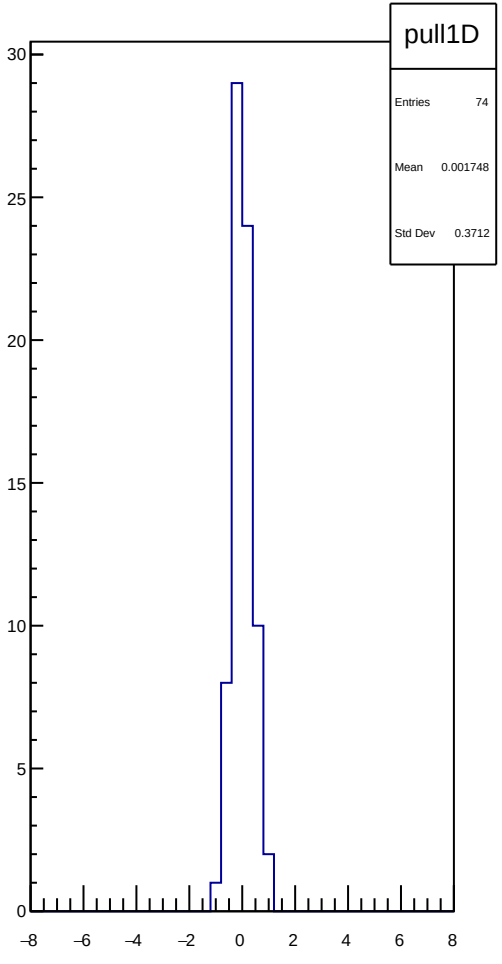

yield_bpm2i01WS_rms vs run
χ² / ndf 1306 / 73
p0 231.1 ± 0.1947
250
245
240
235
230
225
220
215

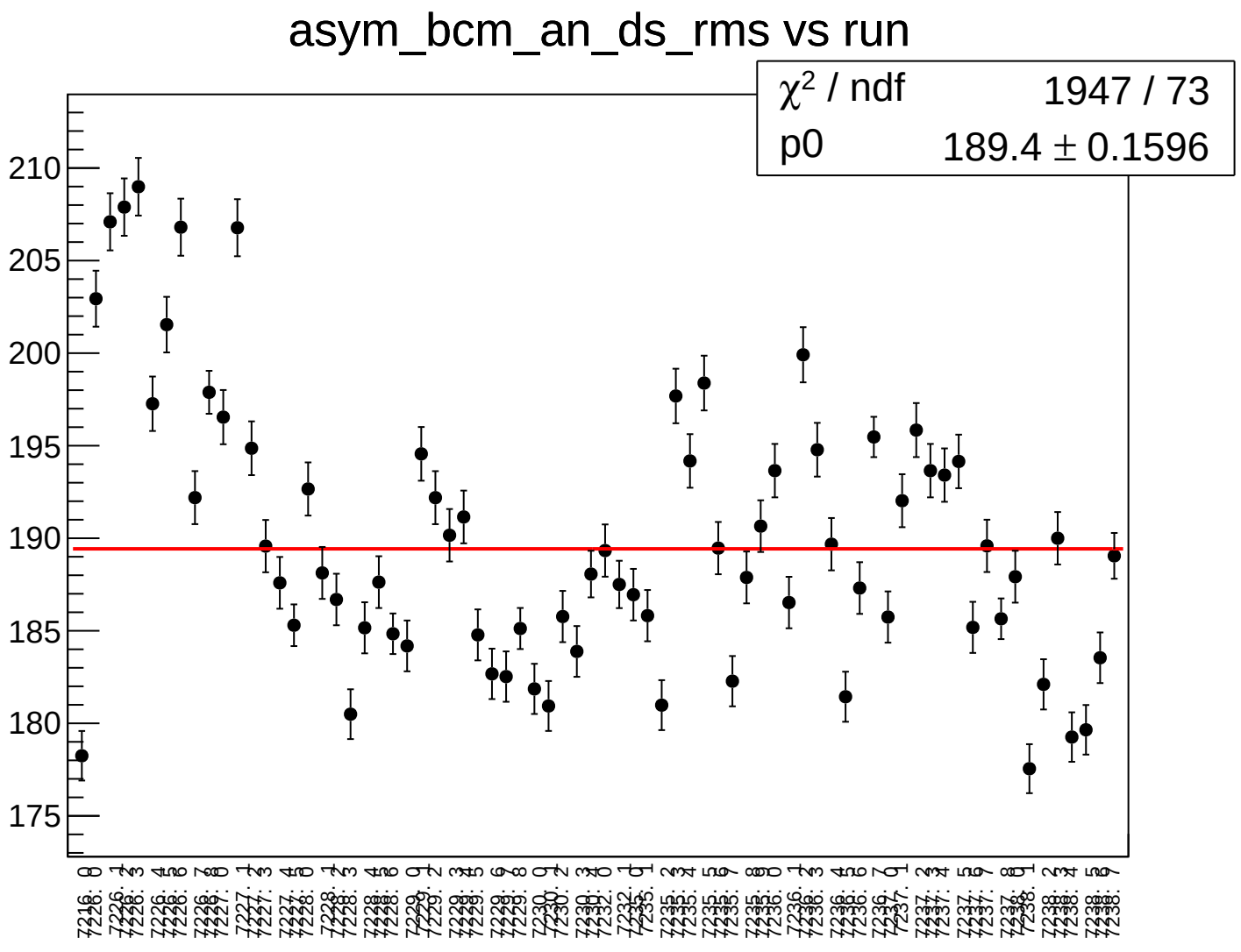

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.879e+04 / 73
p0 1.338e+05 ± 0.285
133.9
133.85
133.8
133.75
133.7
133.65
133.6
pull
Entries 74
Mean 817.7
Std Dev 784.9
40
20
0
−20
−40
−60
−80

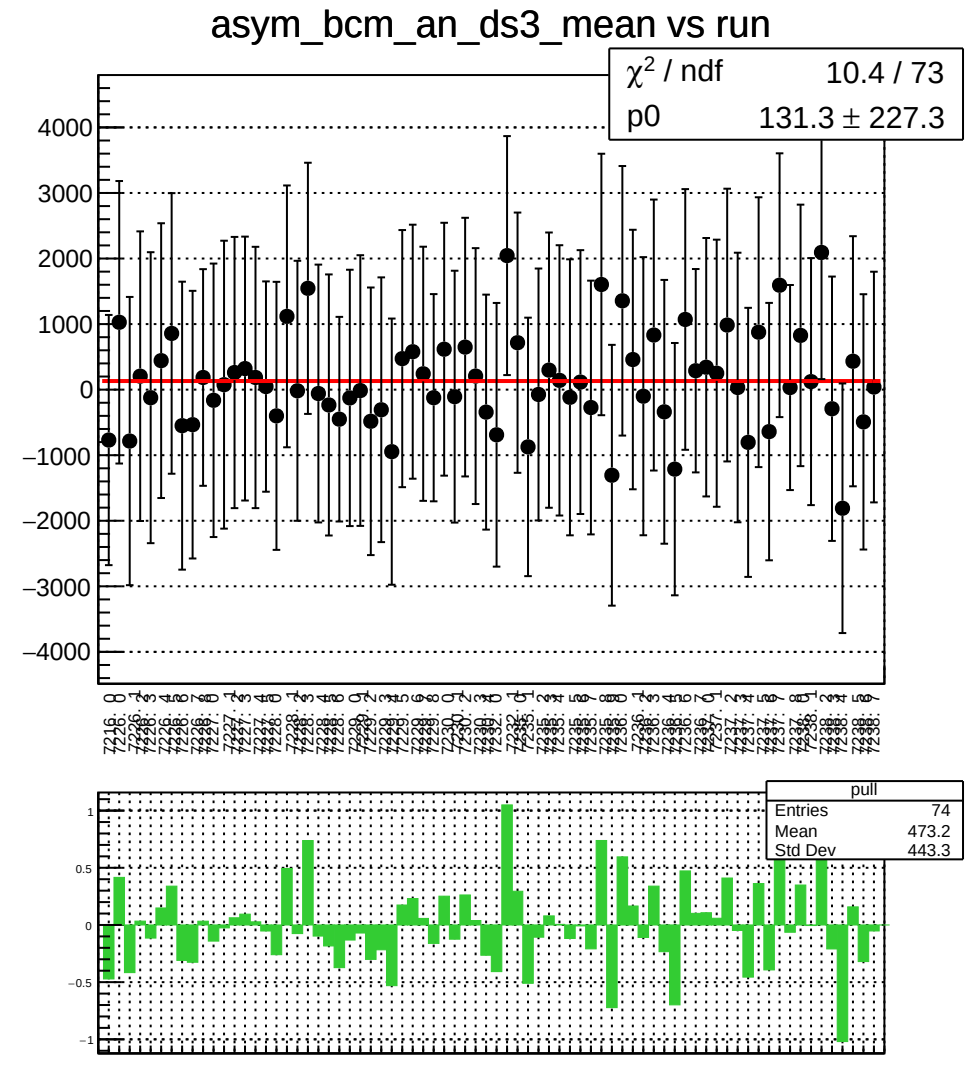

pull1D
Entries 74
Mean −2.208
Std Dev 3.947
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

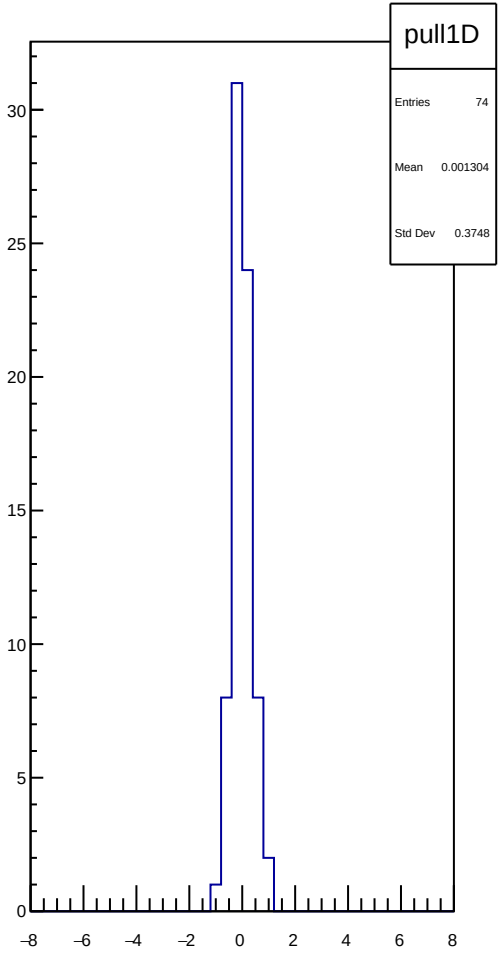

yield_bpm2i02WS_rms vs run
χ² / ndf 1149 / 73
p0 239.3 ± 0.2015
255
250
245
240
235
230
225
220

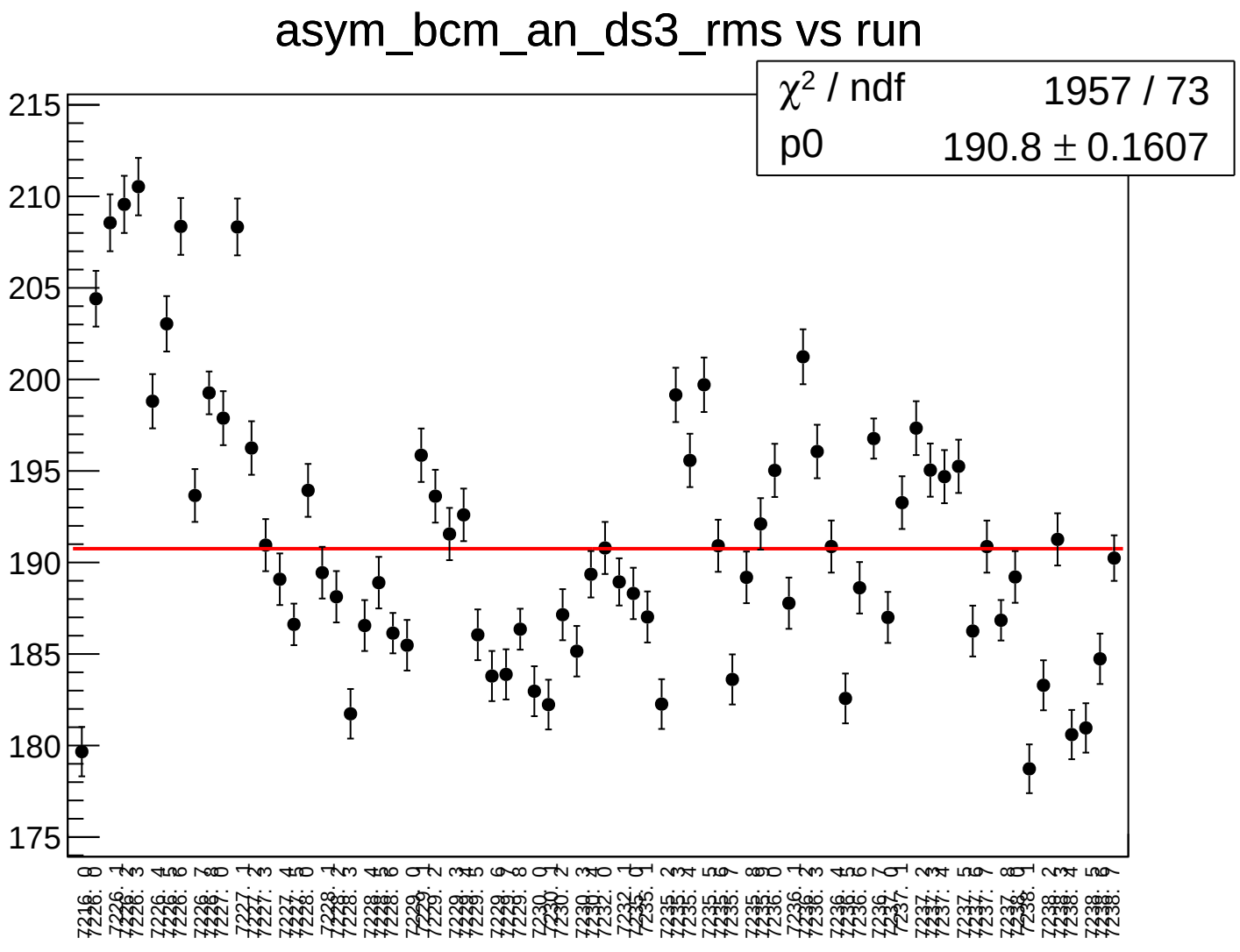

asym_bcm_an_ds_mean vs run
χ² / ndf 10.2 / 73
p0 139.4 ± 225.7
pull
Entries 74
Mean 283.7
Std Dev 254.3

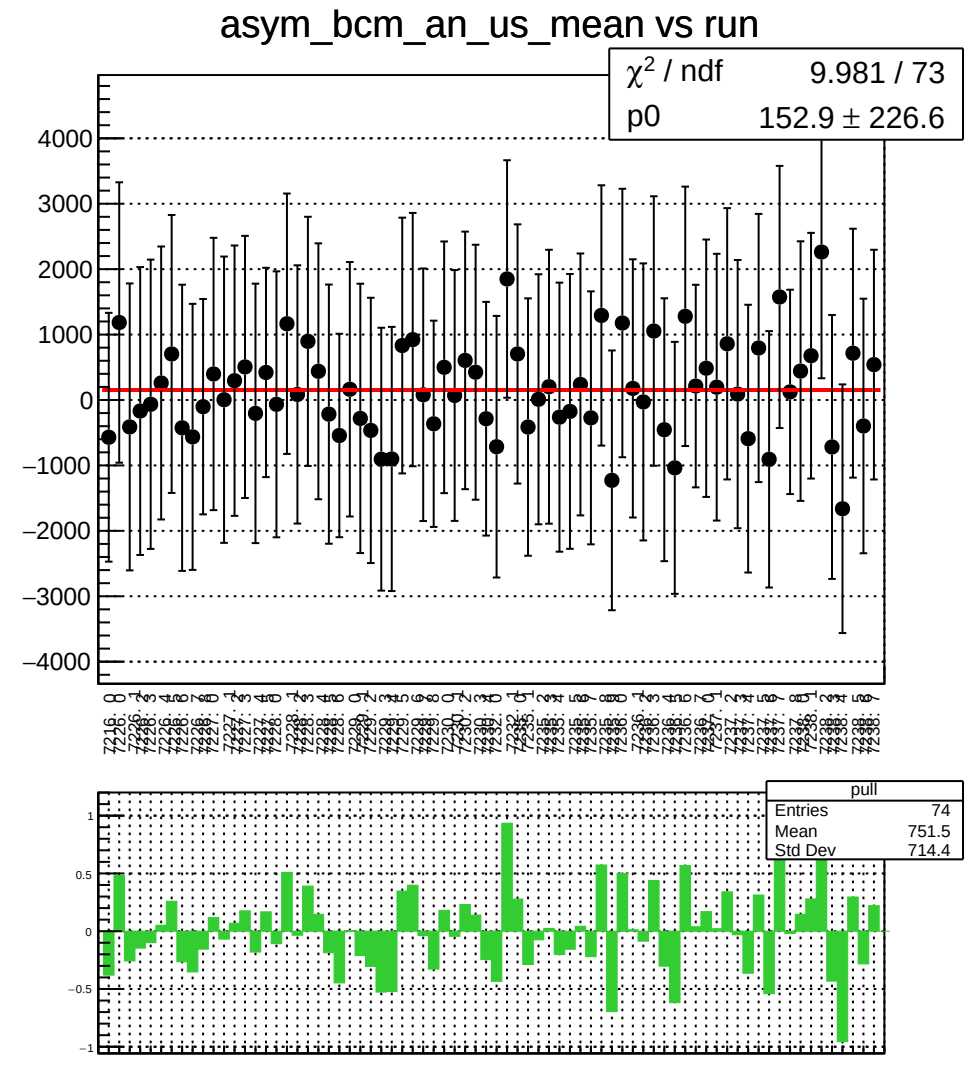

pull1D
Entries 74
Mean 0.001748
Std Dev 0.3712

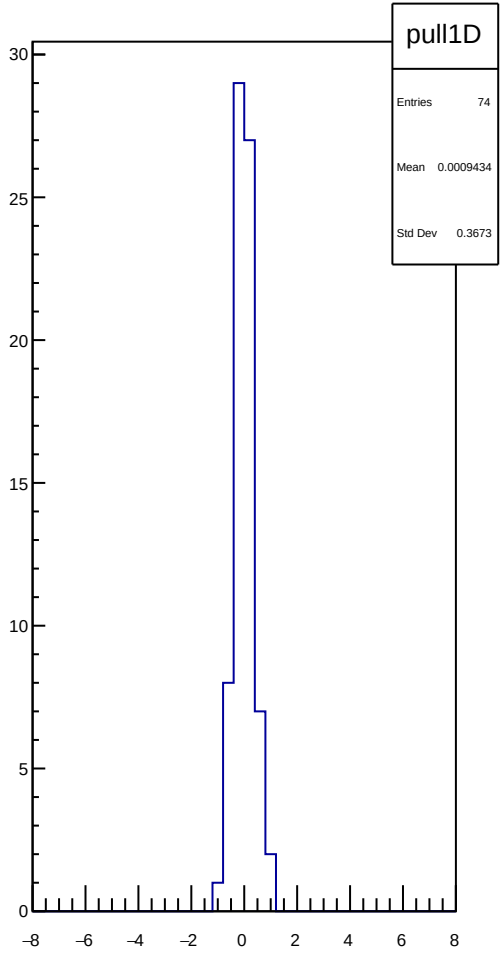

asym_bcm_an_ds_rms vs run
χ² / ndf 1947 / 73
p0 189.4 ± 0.1596
210
205
200
195
190
185
180
175

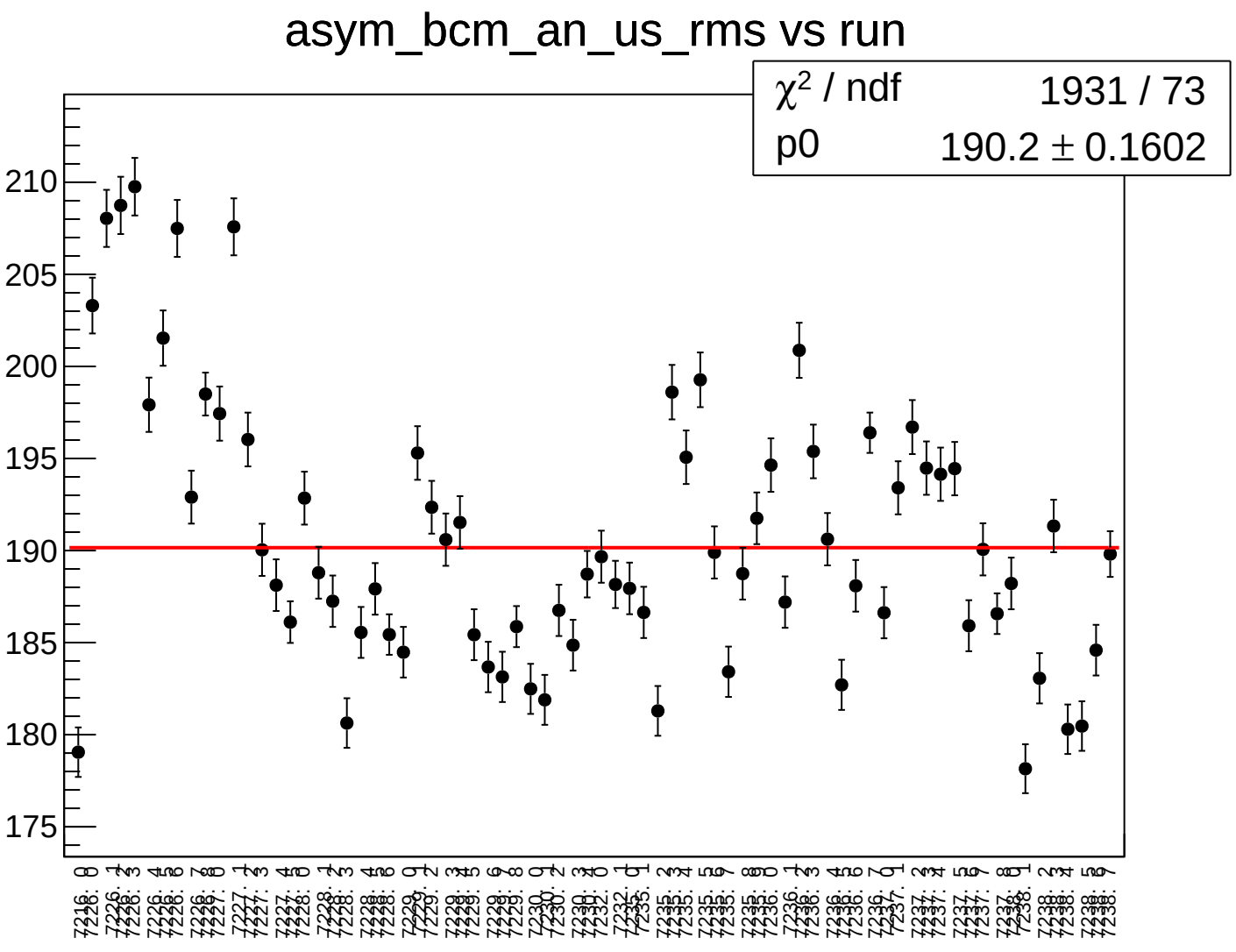

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.4 / 73
p0 131.3 ± 227.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 74
Mean 473.2
Std Dev 443.3
1
0.5
0
−0.5
−1

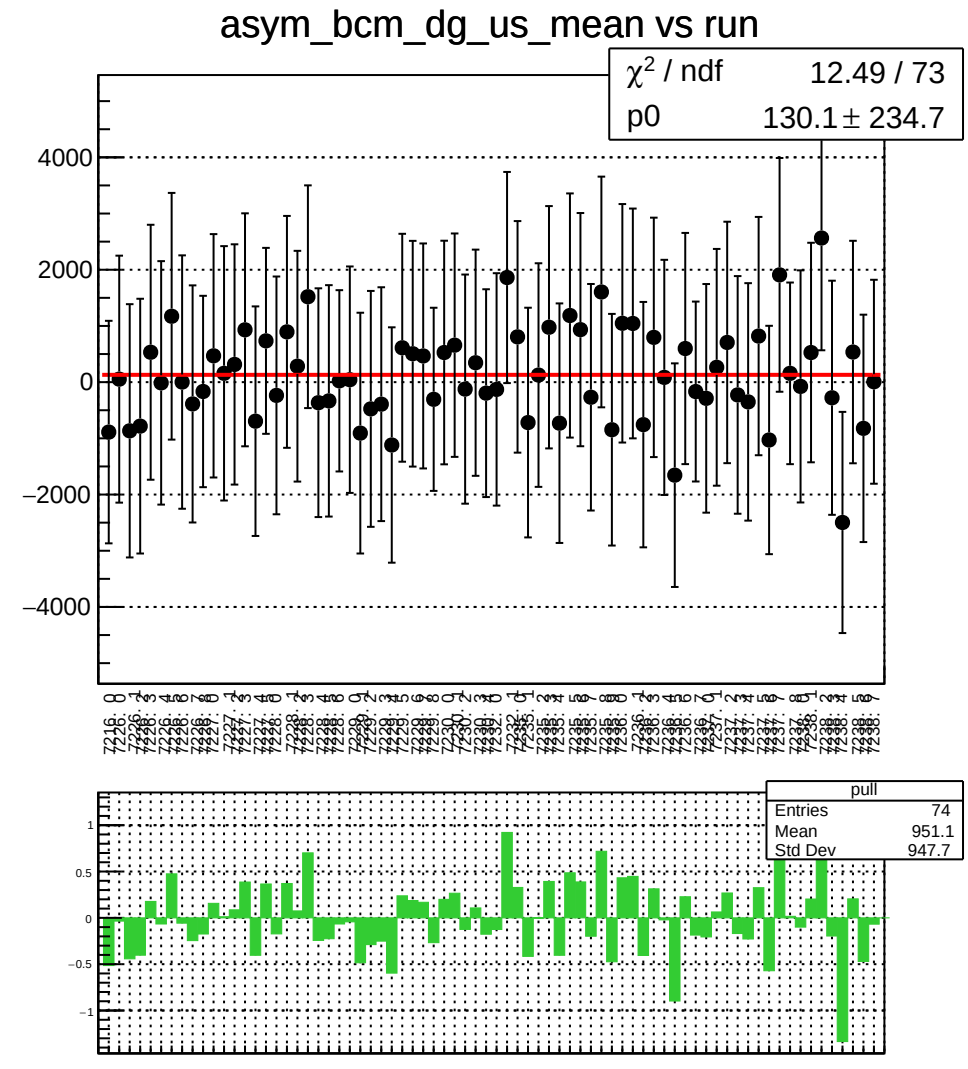

pull1D
Entries 74
Mean 0.001304
Std Dev 0.3748
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

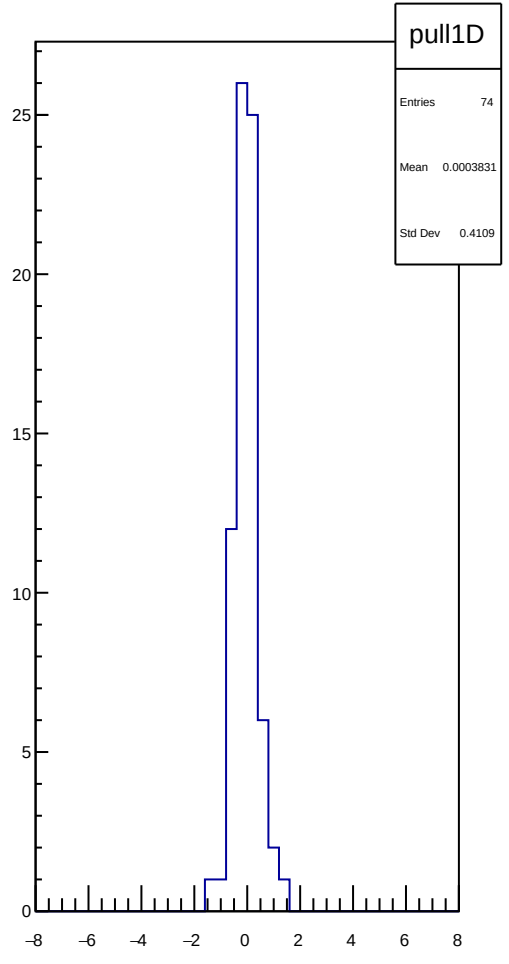

asym_bcm_an_ds3_rms vs run
χ² / ndf 1957 / 73
p0 190.8 ± 0.1607
215
210
205
200
195
190
185
180
175

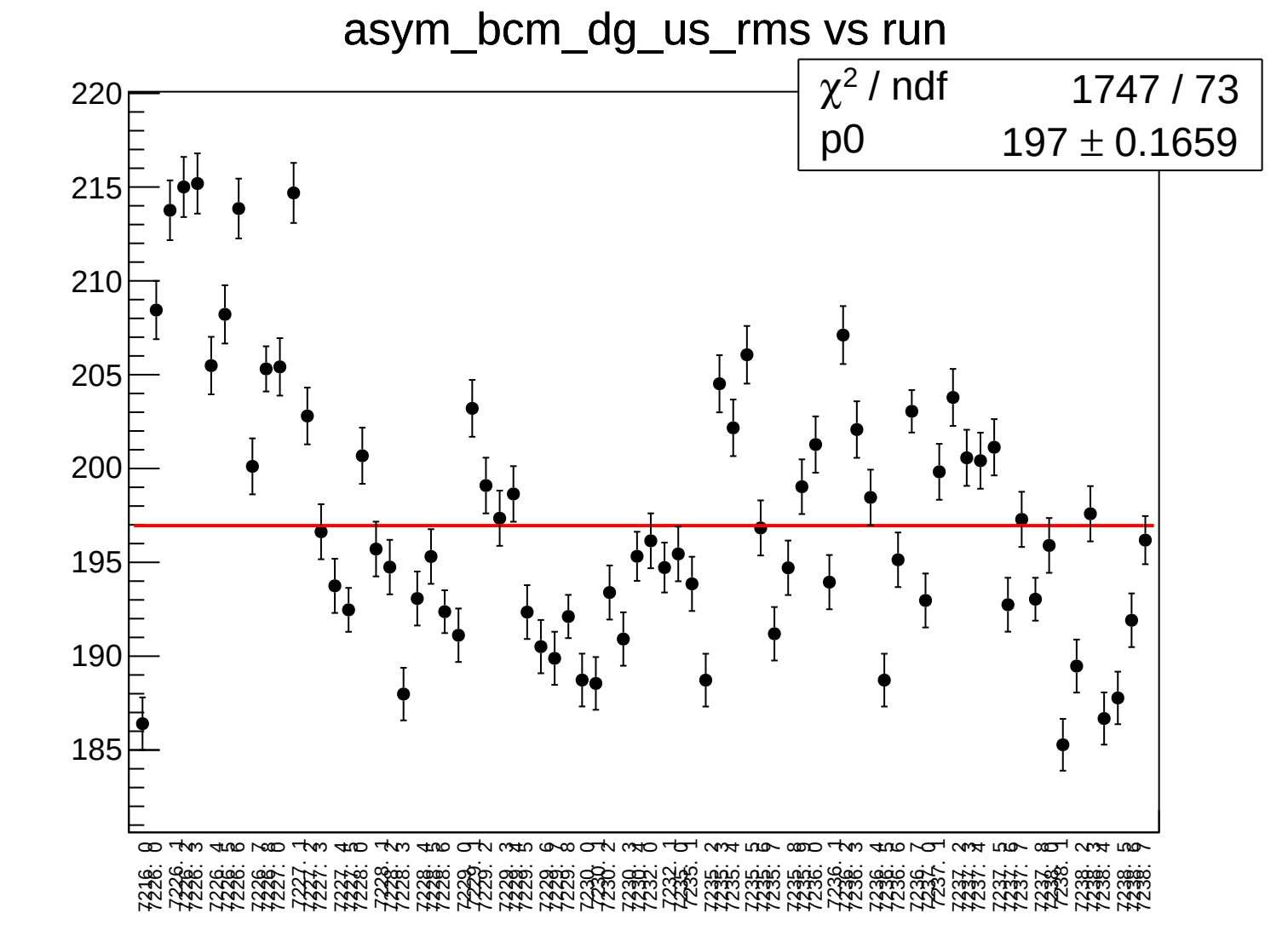

asym_bcm_an_us_mean vs run
χ^2 / ndf 9.981 / 73
p0 152.9 ± 226.6
pull
Entries 74
Mean 751.5
Std Dev 714.4

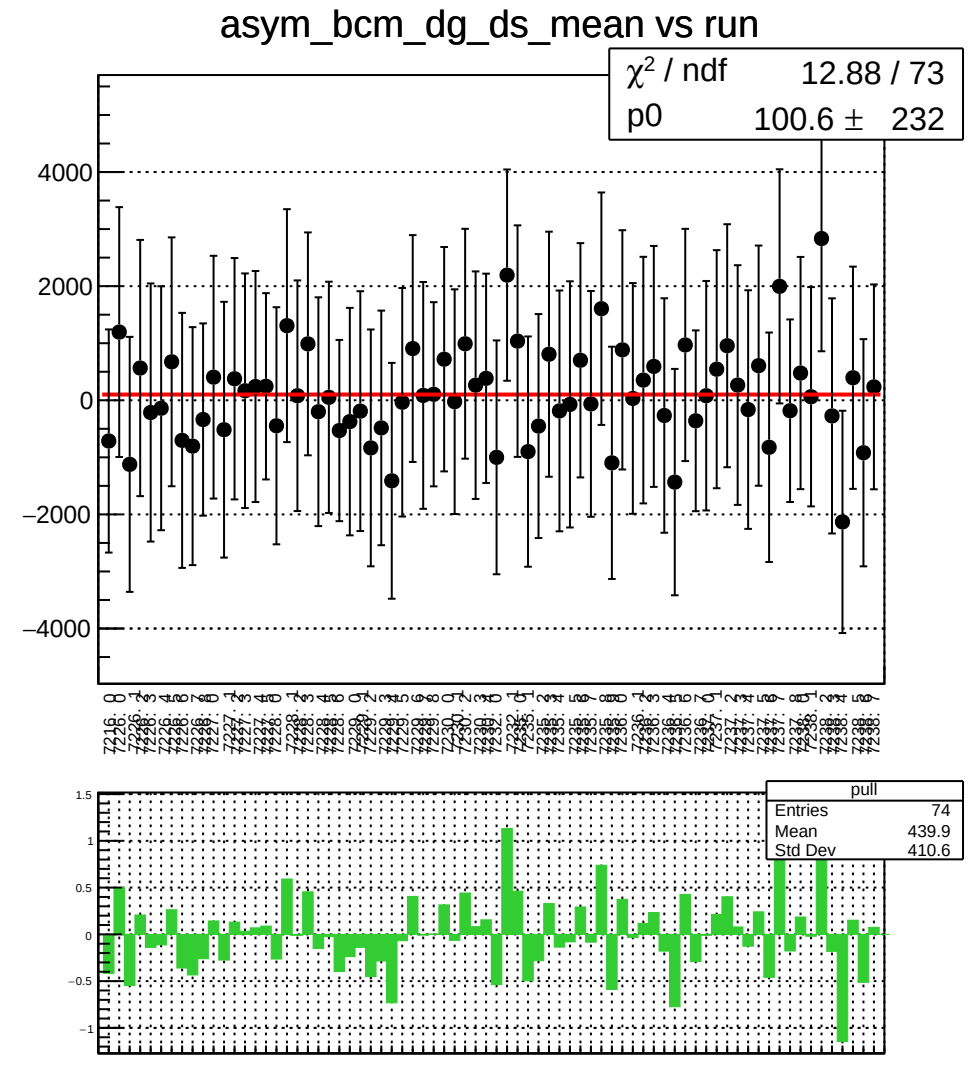

pull1D
Entries 74
Mean 0.0009434
Std Dev 0.3673

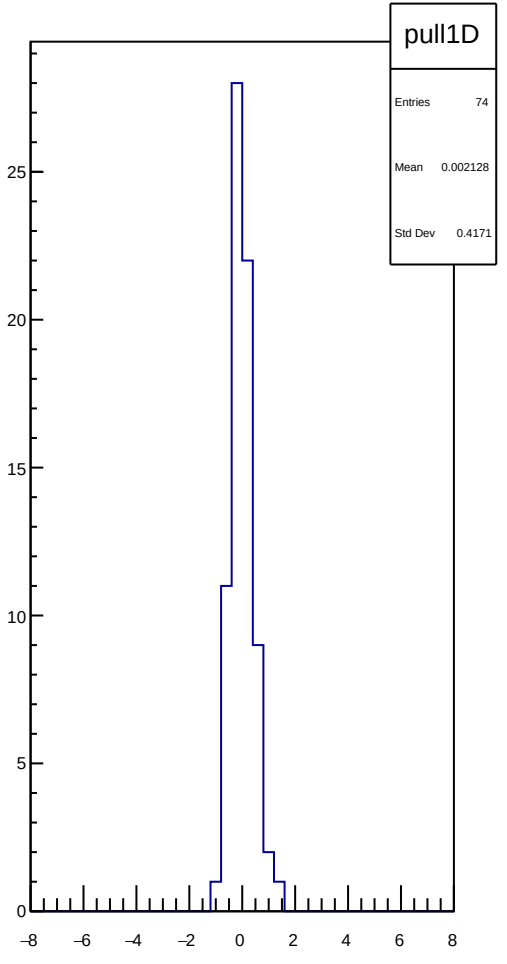

asym_bcm_an_us_rms vs run
χ² / ndf 1931 / 73
p0 190.2 ± 0.1602
210
205
200
195
190
185
180
175

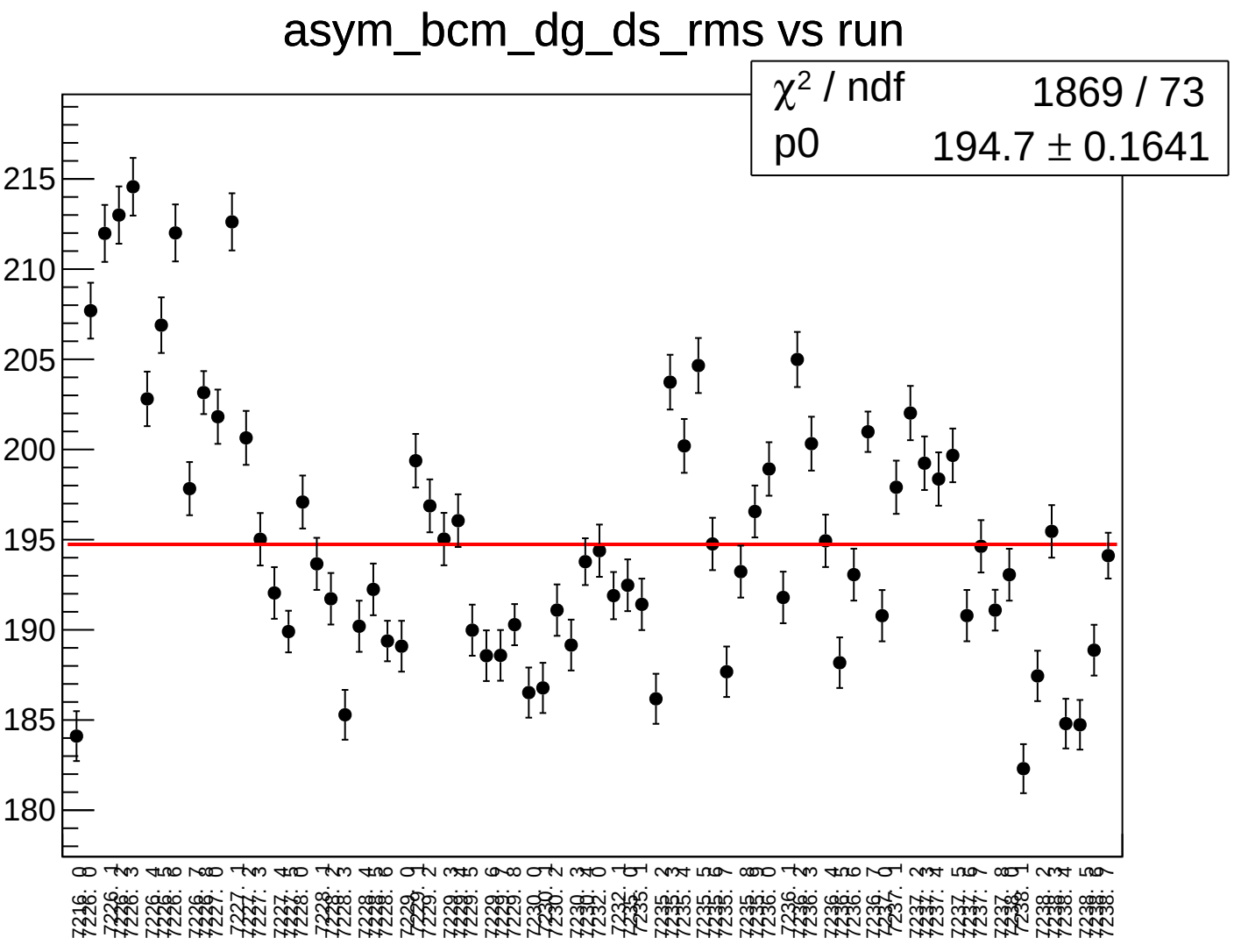

asym_bcm_dg_us_mean vs run
χ² / ndf 12.49 / 73
p0 130.1 ± 234.7
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 951.1
Std Dev 947.7
1
0.5
0
−0.5
−1

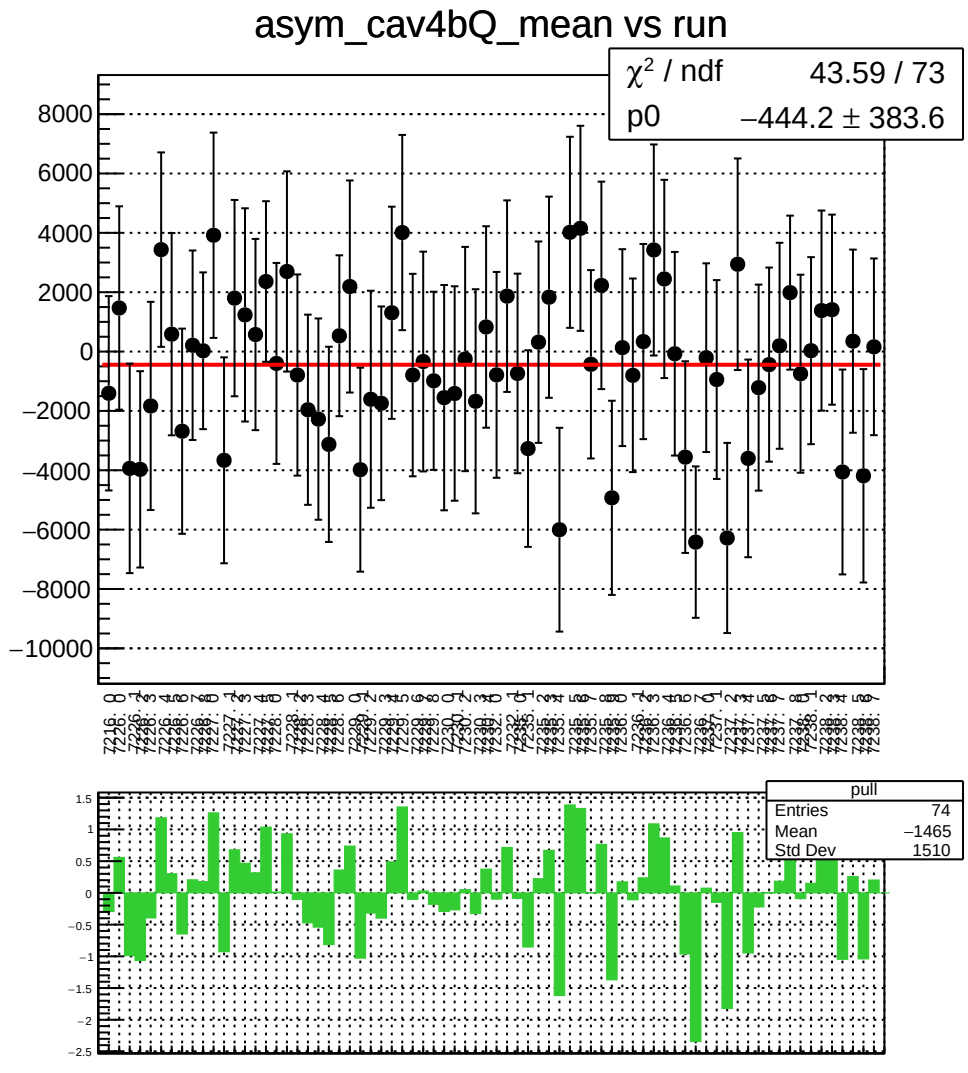

pull1D
Entries 74
Mean 0.0003831
Std Dev 0.4109
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

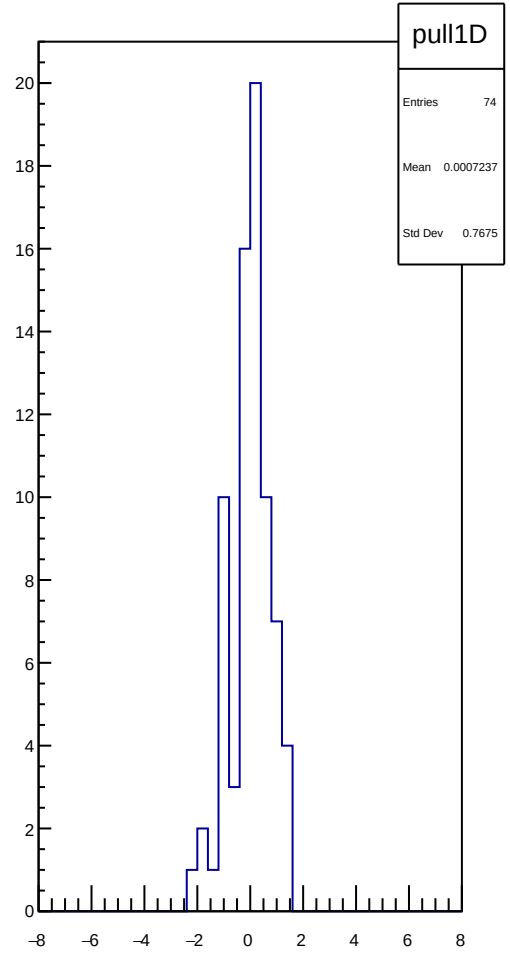

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1747 / 73
p0 197 ± 0.1659
220
215
210
205
200
195
190
185

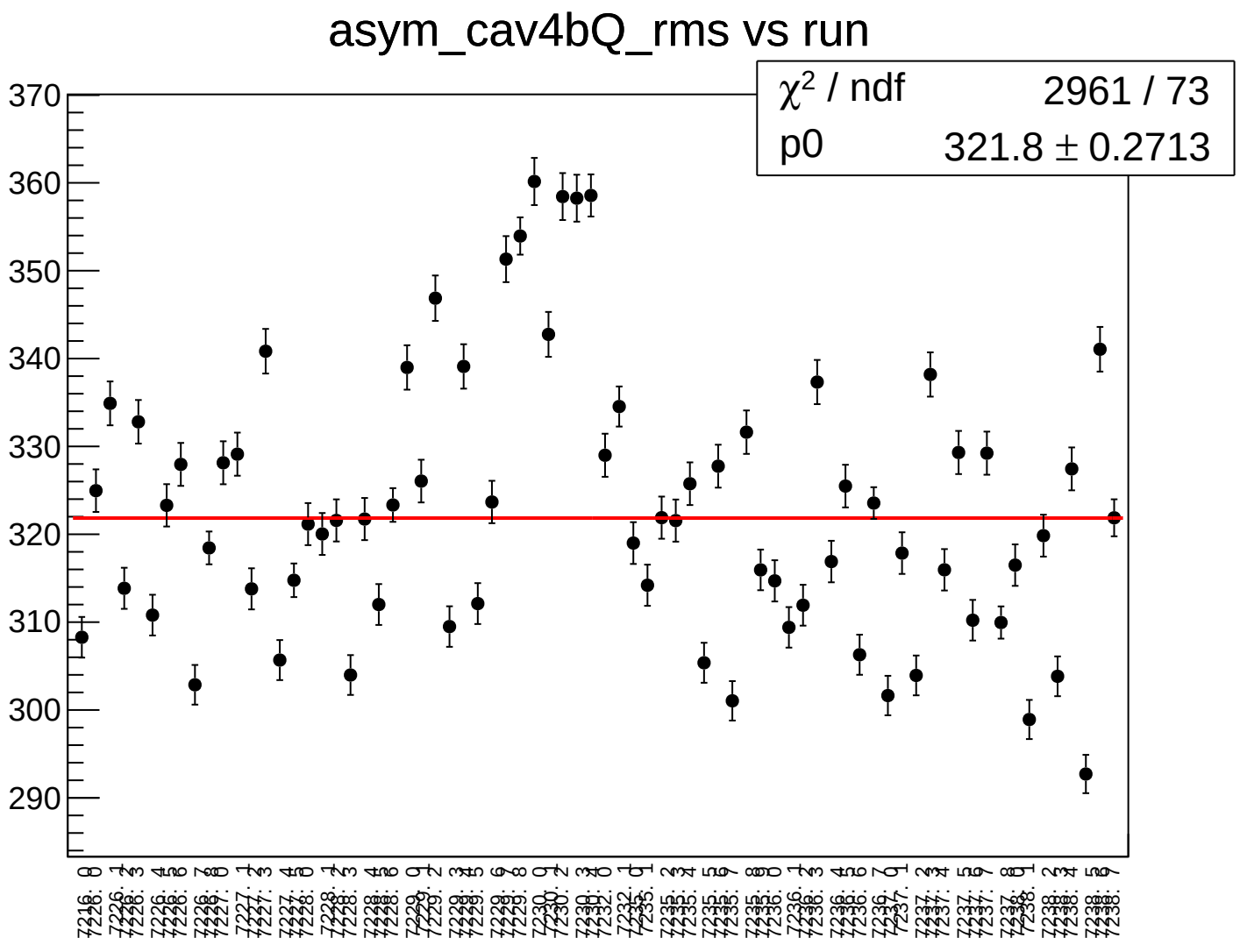

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.88 / 73
p0 100.6 ± 232
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 439.9
Std Dev 410.6
1.5
1
0.5
0
−0.5
−1

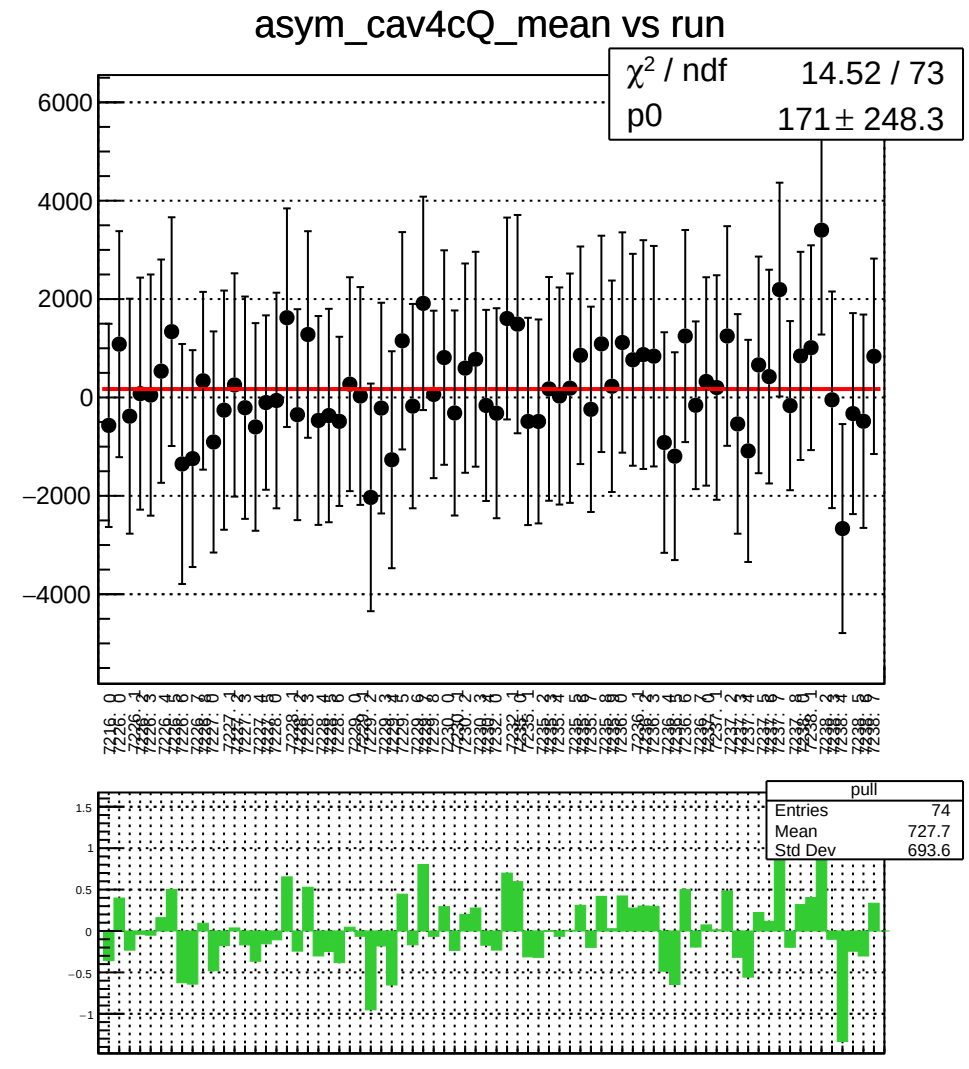

pull1D
Entries 74
Mean 0.002128
Std Dev 0.4171
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

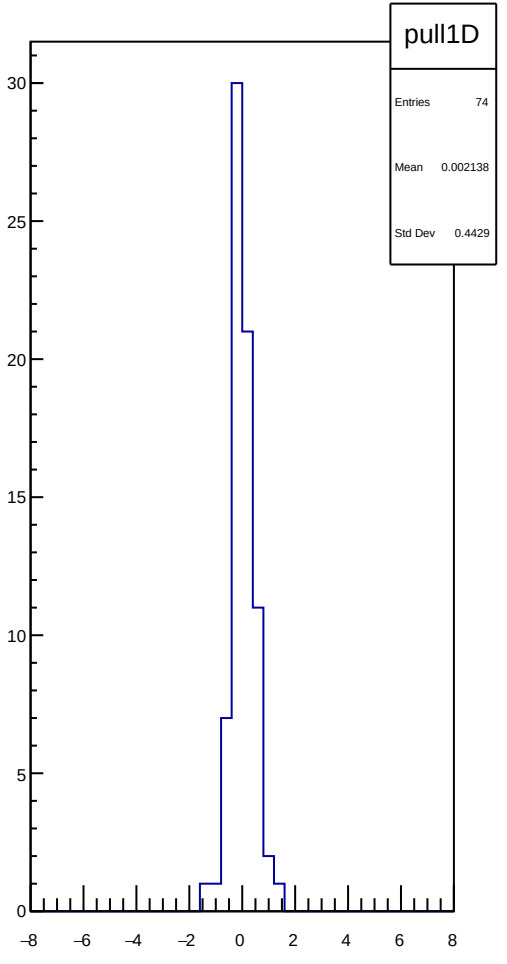

asym_bcm_dg_ds_rms vs run
χ² / ndf 1869 / 73
p0 194.7 ± 0.1641
215
210
205
200
195
190
185
180

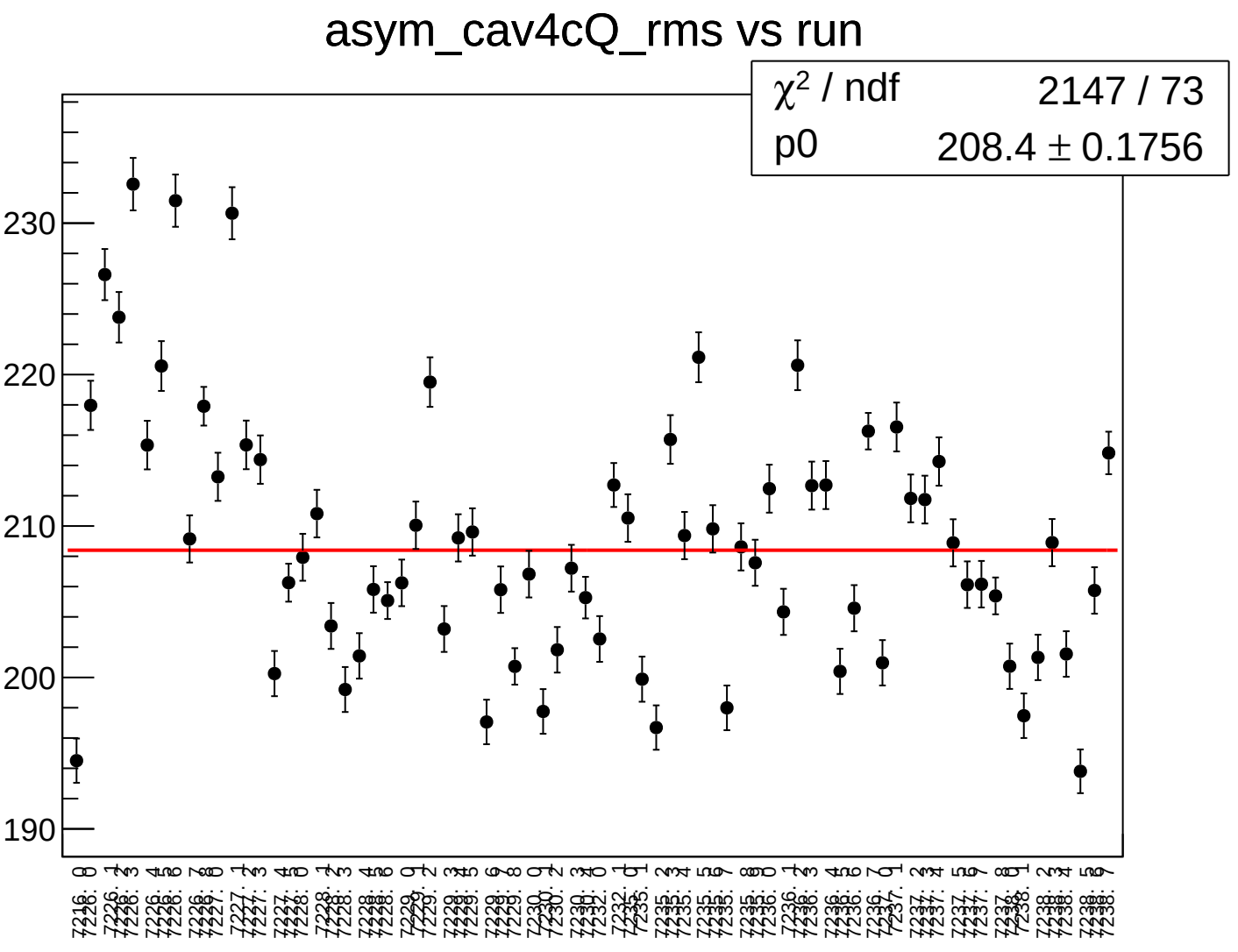

asym_cav4bQ_mean vs run
χ² / ndf 43.59 / 73
p0 −444.2 ± 383.6
pull
Entries 74
Mean −1465
Std Dev 1510

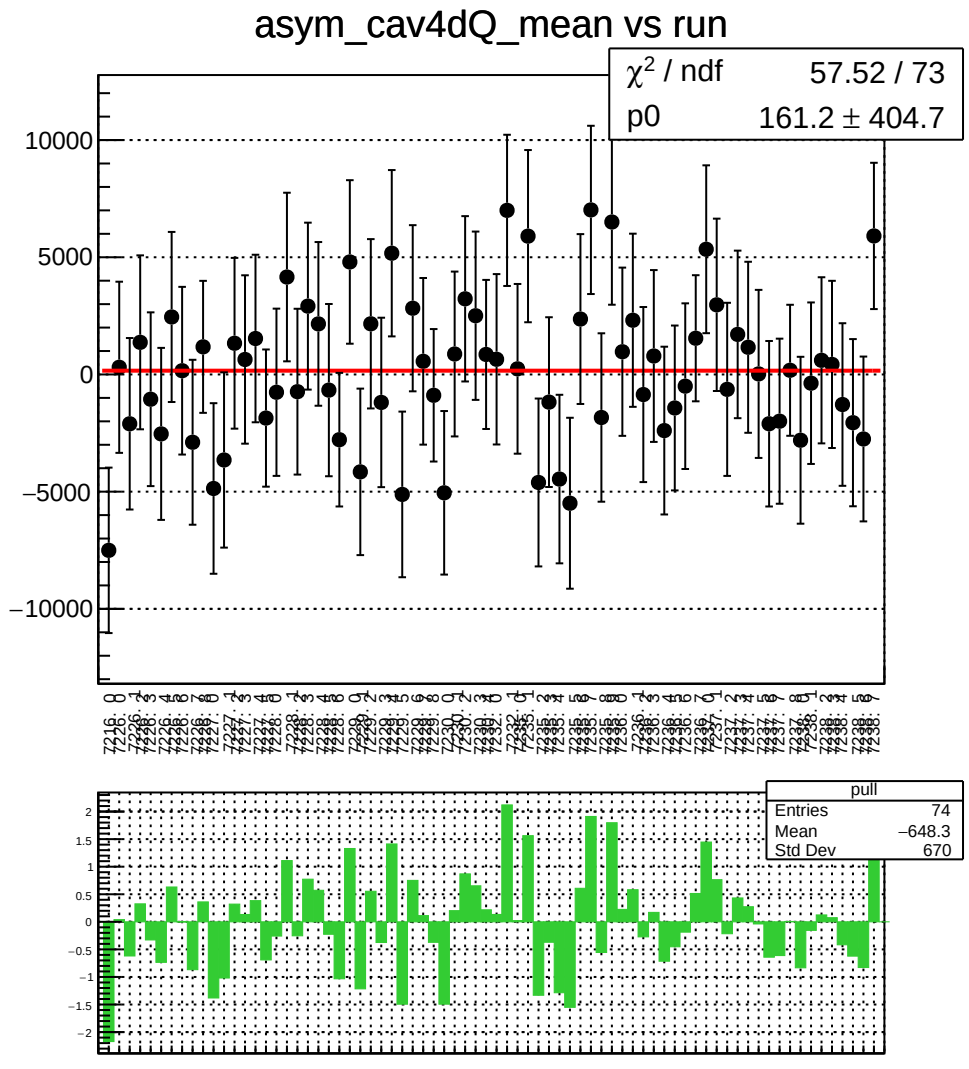

pull1D
Entries 74
Mean 0.0007237
Std Dev 0.7675

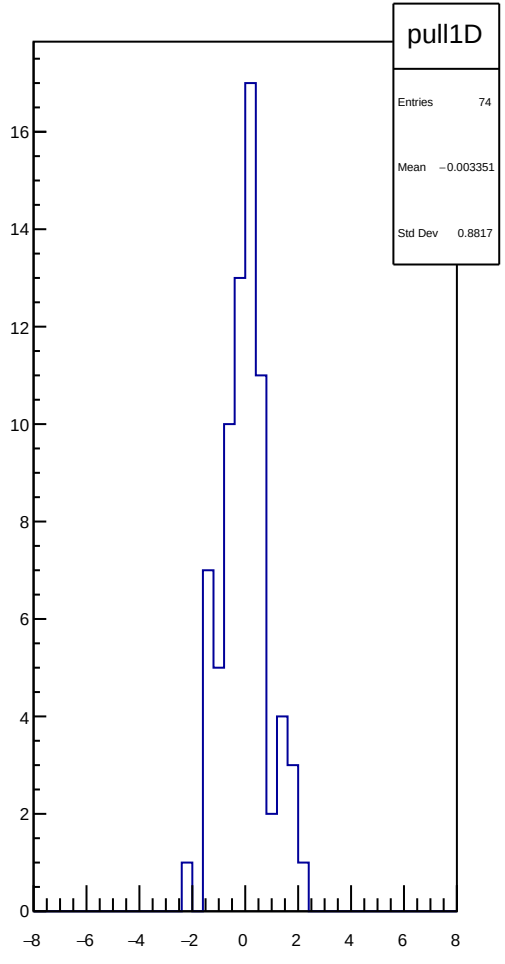

asym_cav4bQ_rms vs run
χ² / ndf 2961 / 73
p0 321.8 ± 0.2713
370
360
350
340
330
320
310
300
290

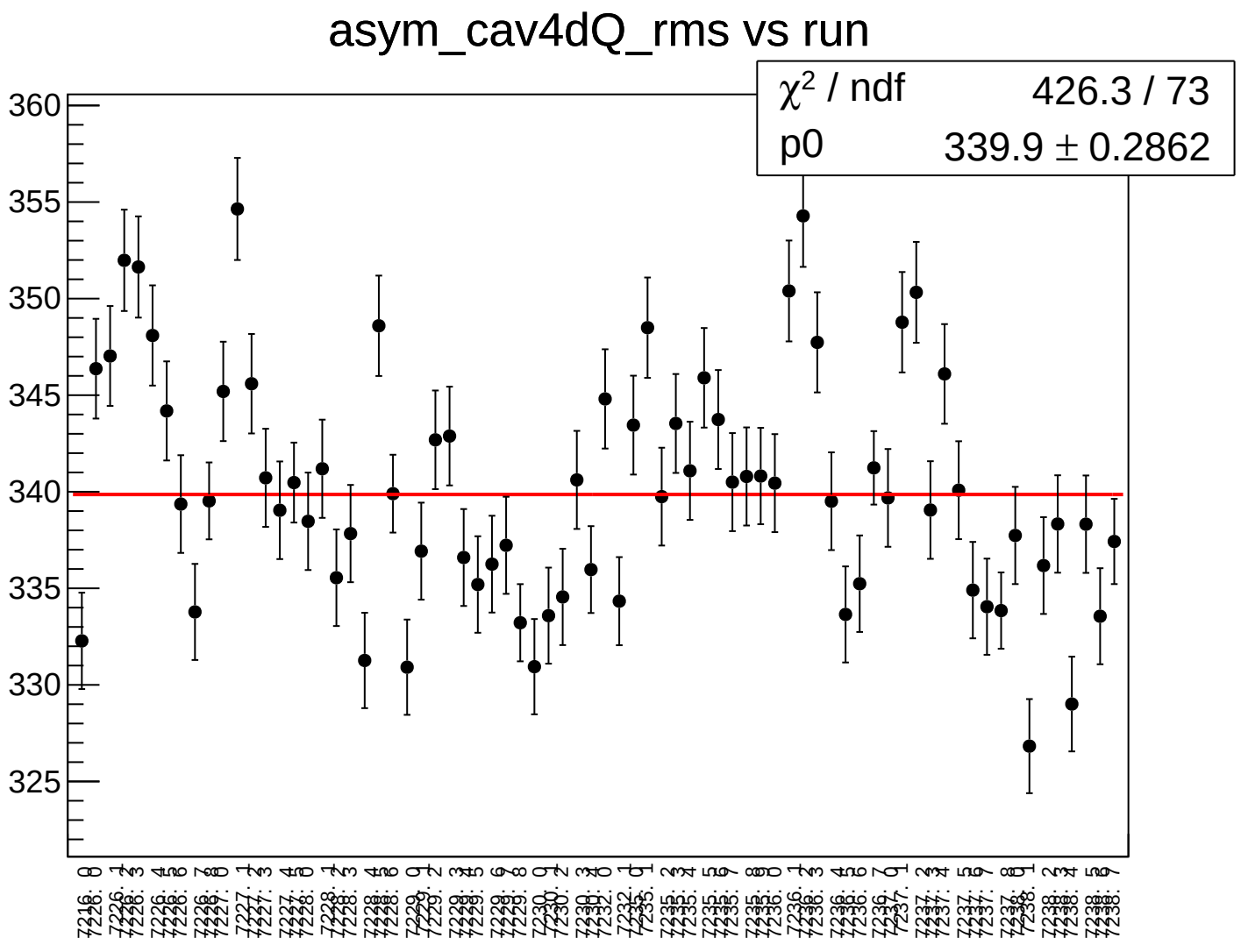

asym_cav4cQ_mean vs run
χ² / ndf 14.52 / 73
p0 171 ± 248.3
6000
4000
2000
0
−2000
−4000
pull
Entries 74
Mean 727.7
Std Dev 693.6
1.5
1
0.5
0
−0.5
−1

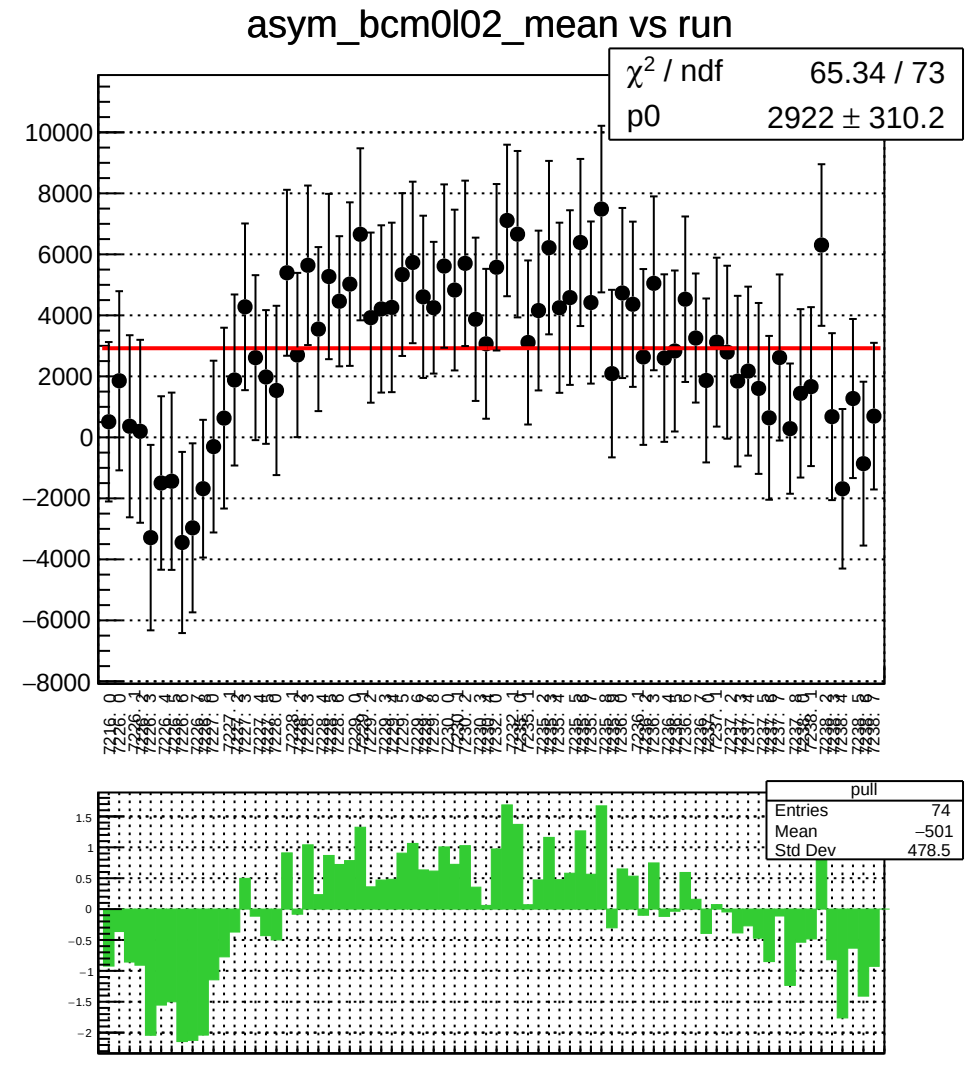

pull1D
Entries 74
Mean 0.002138
Std Dev 0.4429
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

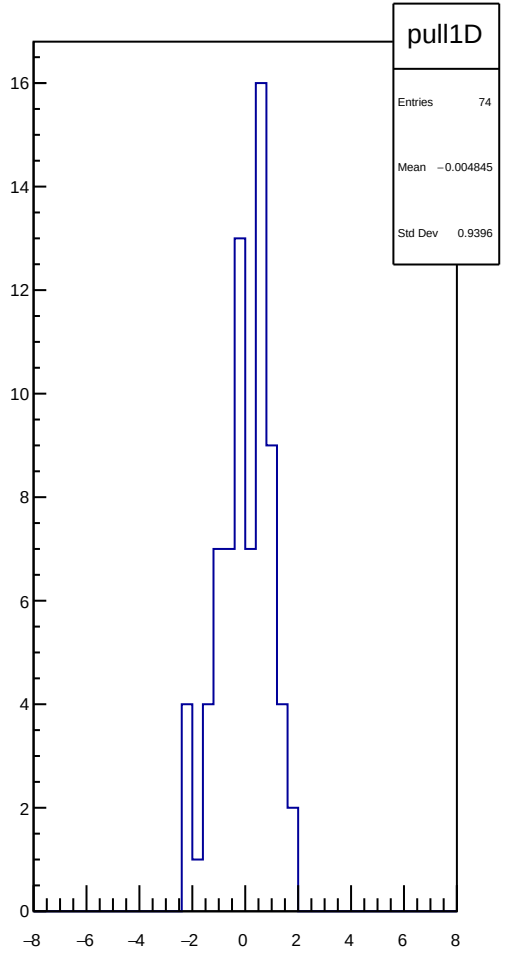

asym_cav4cQ_rms vs run
χ^2 / ndf 2147 / 73
p0 208.4 ± 0.1756
230
220
210
200
190

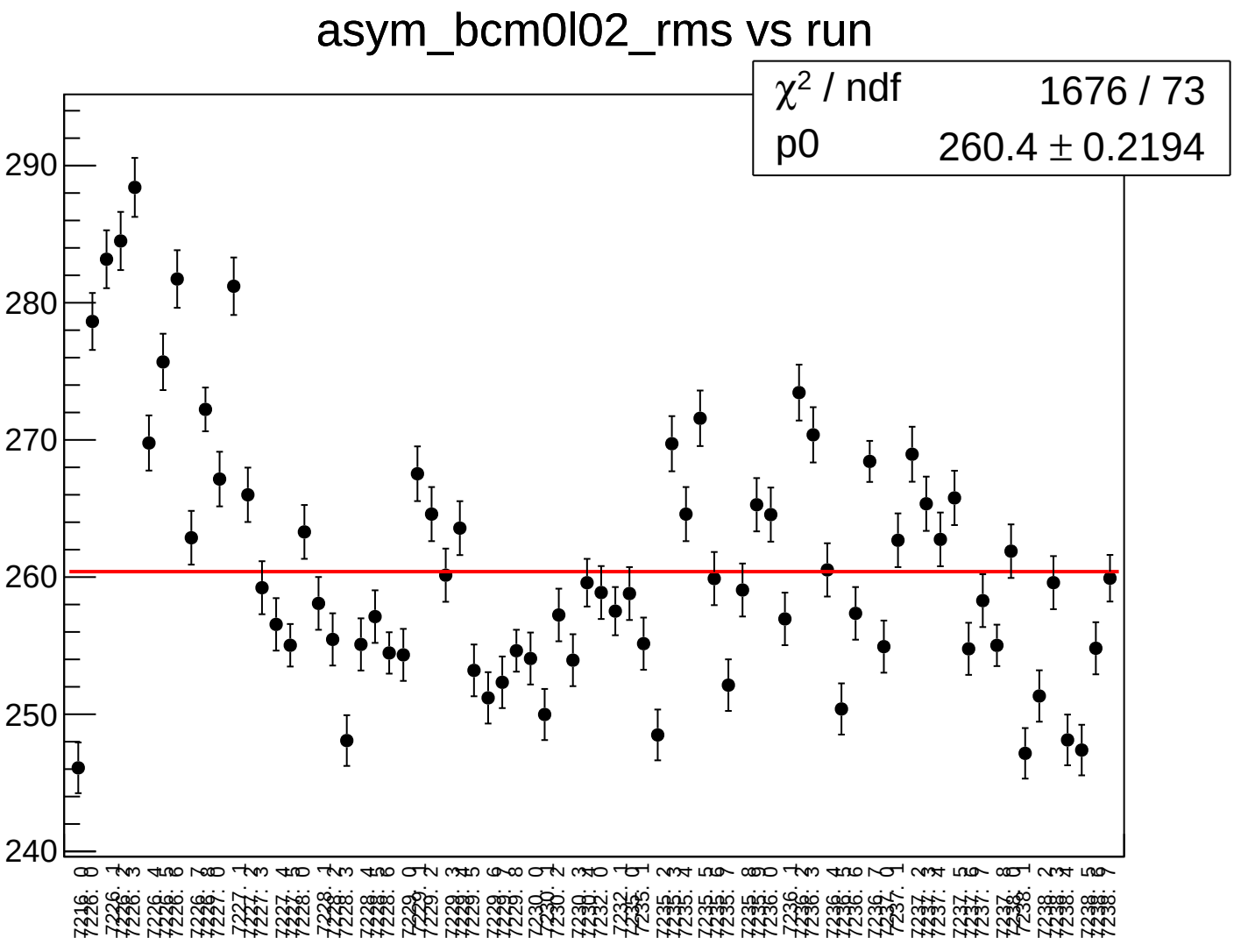

asym_cav4dQ_mean vs run
χ² / ndf 57.52 / 73
p0 161.2 ± 404.7
10000
5000
0
−5000
−10000
pull
Entries 74
Mean −648.3
Std Dev 670
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

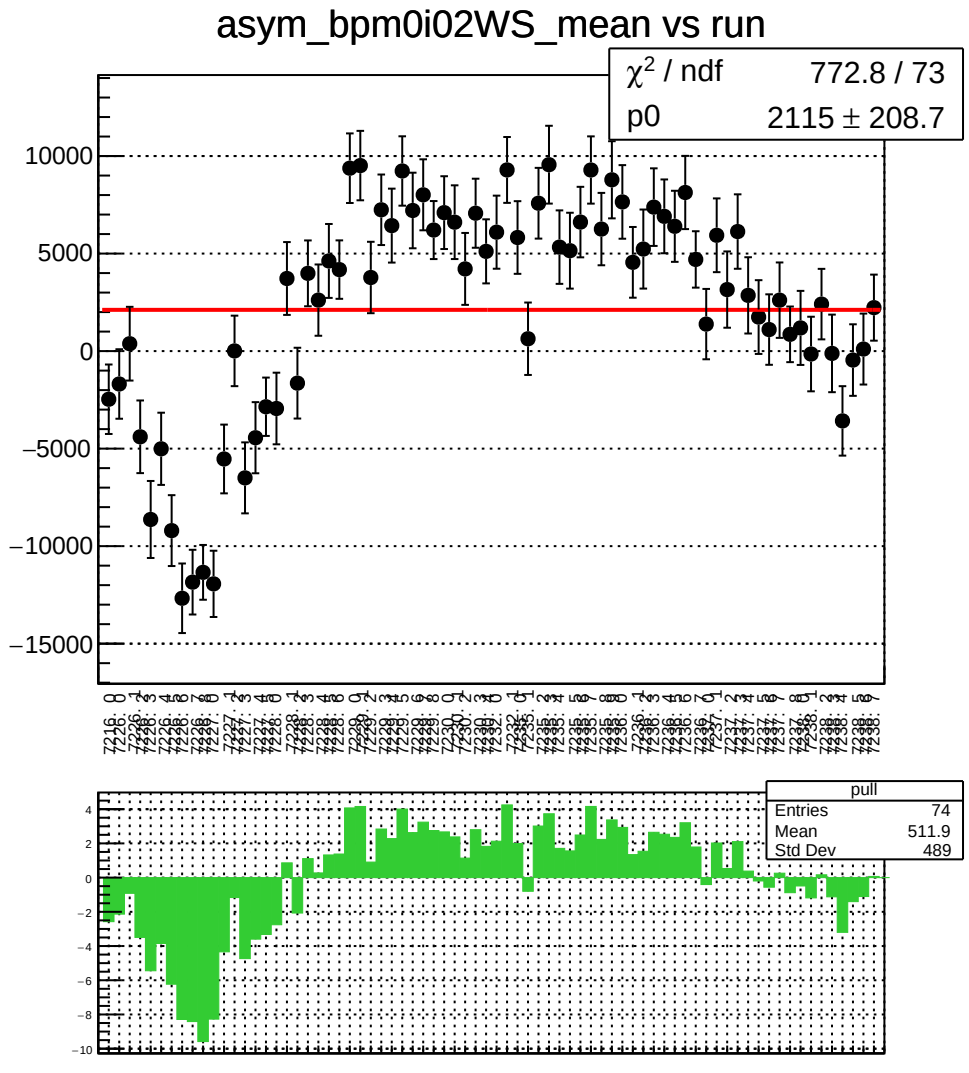

pull1D
Entries 74
Mean −0.003351
Std Dev 0.8817
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

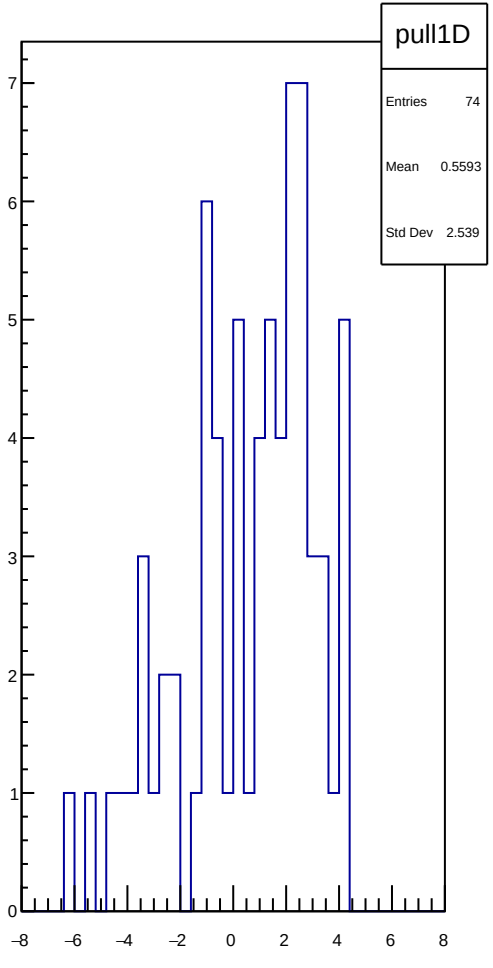

asym_cav4dQ_rms vs run
χ^2 / ndf 426.3 / 73
p0 339.9 ± 0.2862
360
355
350
345
340
335
330
325

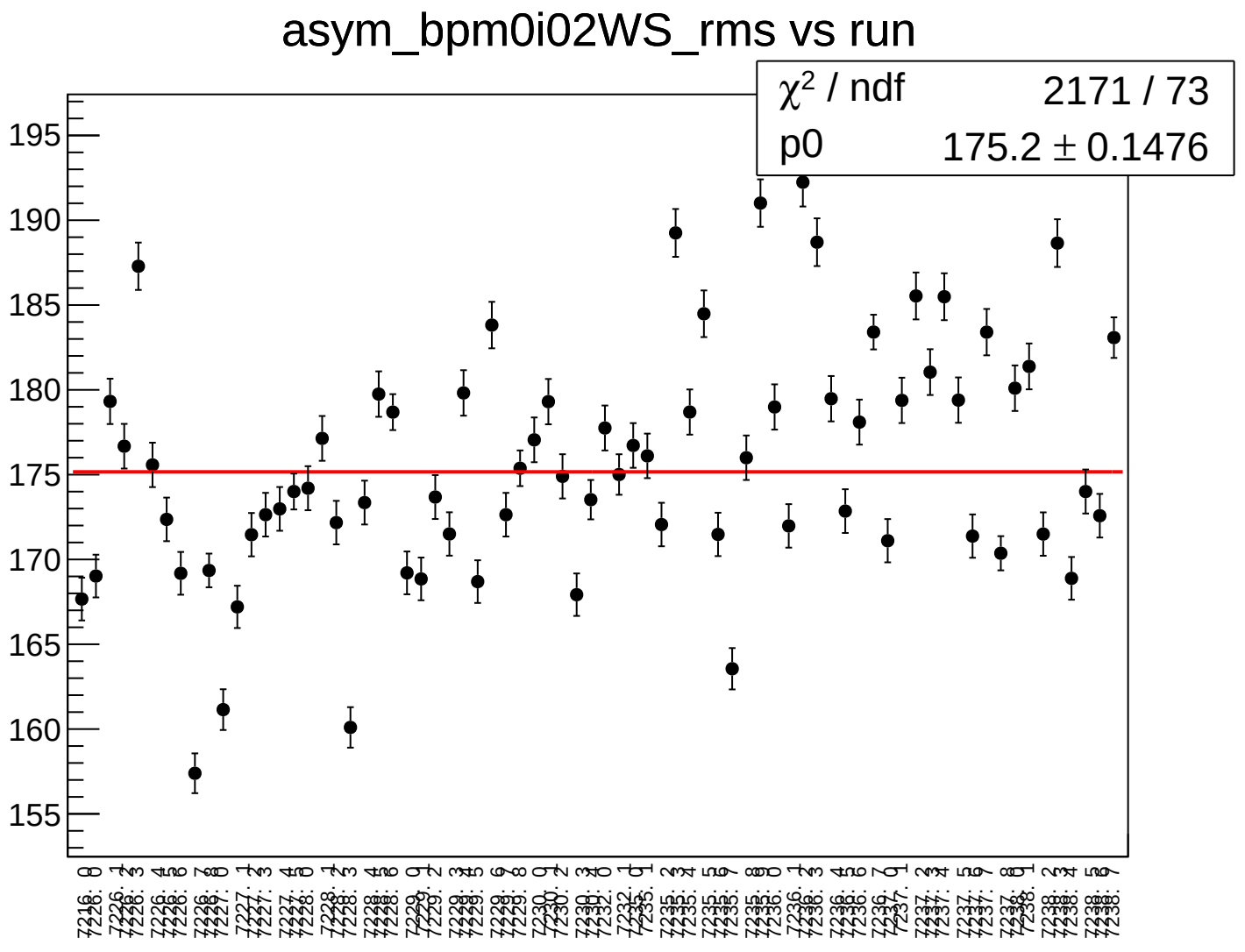

asym_bcm0l02_mean vs run
χ² / ndf 65.34 / 73
p0 2922 ± 310.2
pull
Entries 74
Mean −501
Std Dev 478.5

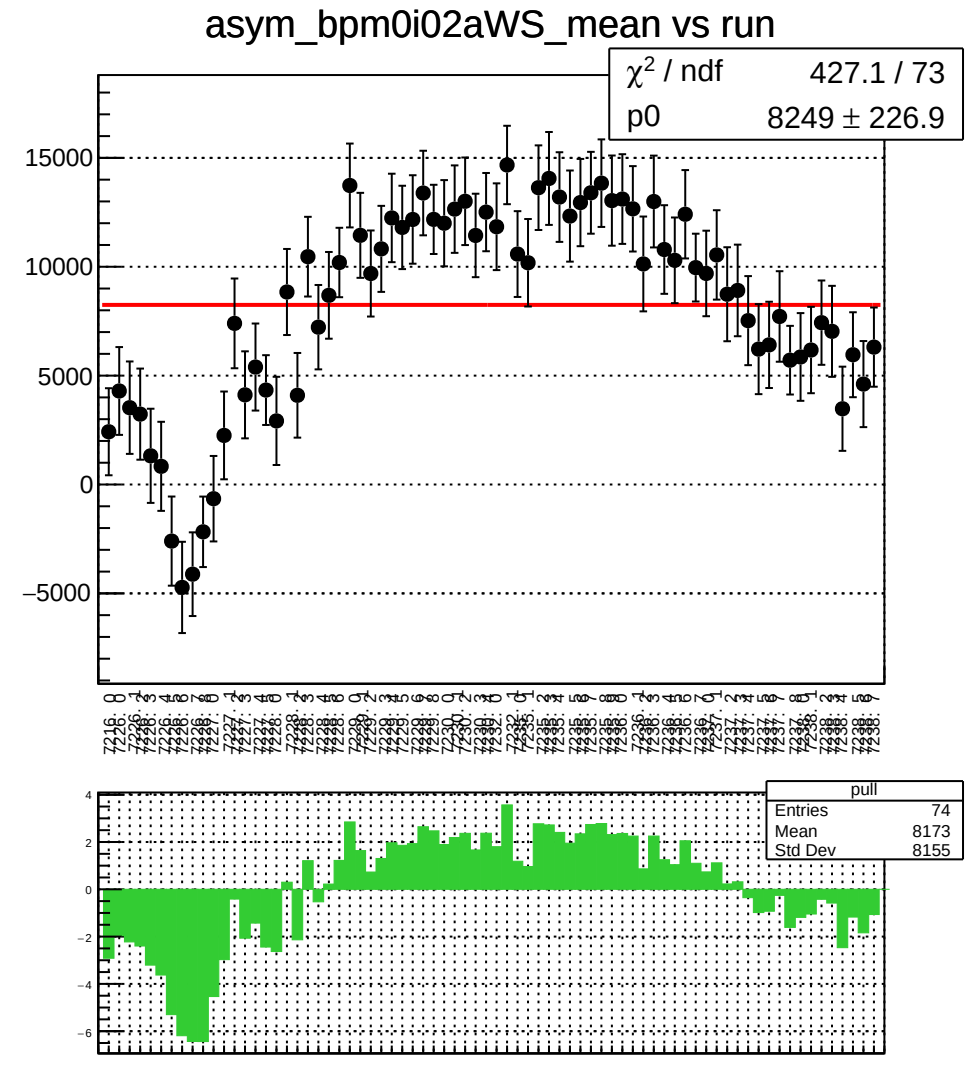

pull1D
Entries 74
Mean −0.004845
Std Dev 0.9396

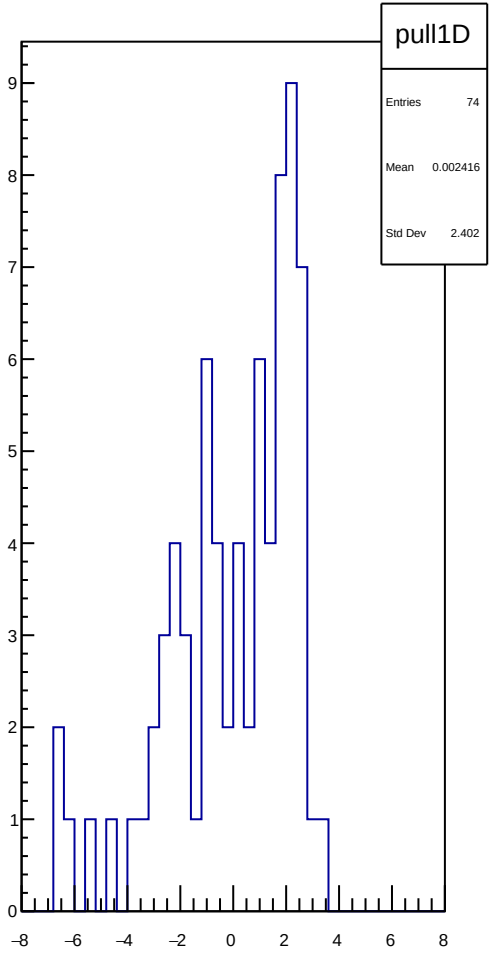

asym_bcm0l02_rms vs run
χ^2 / ndf 1676 / 73
p0 260.4 ± 0.2194
290
280
270
260
250
240

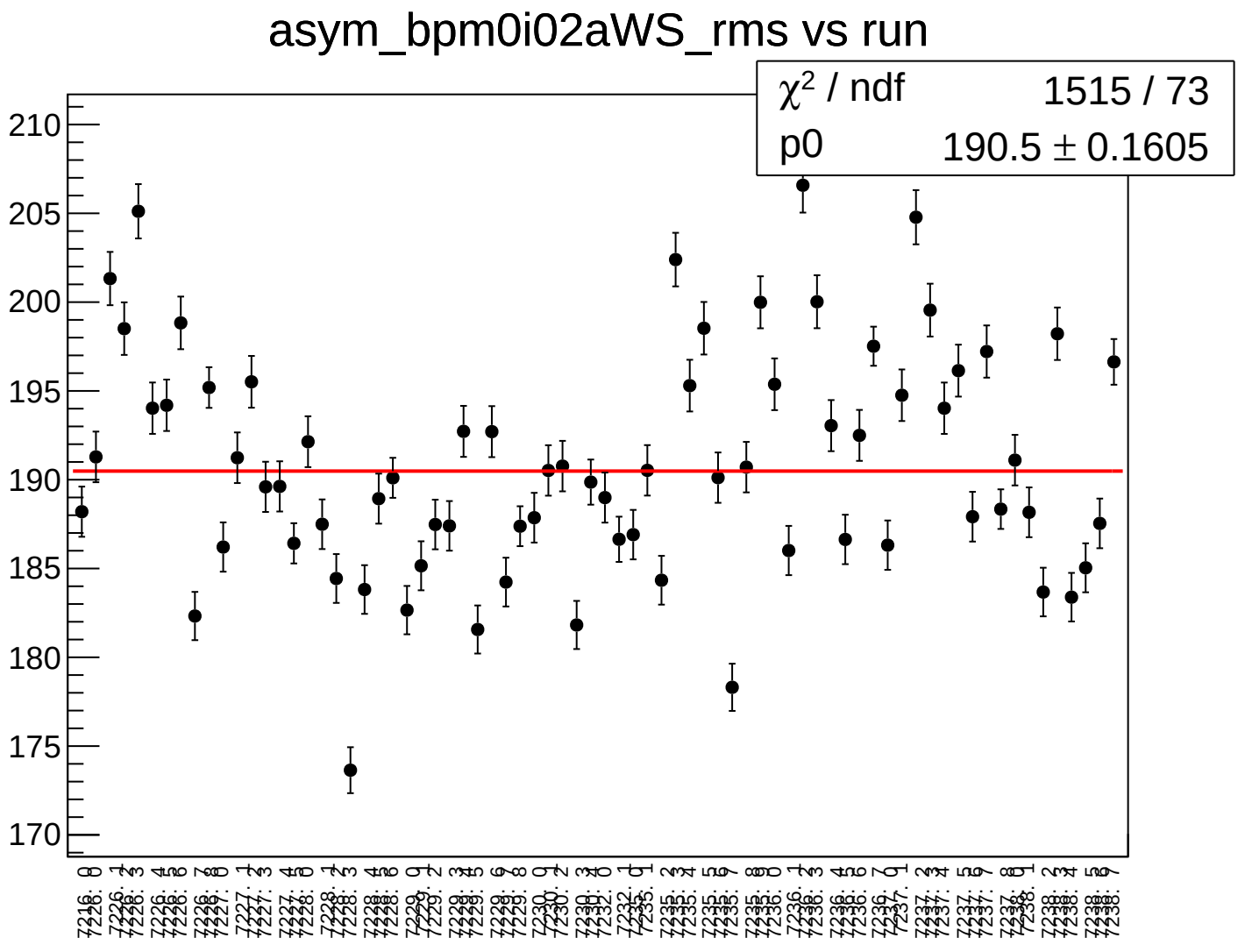

asym_bpm0i02WS_mean vs run
χ^2 / ndf 772.8 / 73
p0 2115 ± 208.7
pull
Entries 74
Mean 511.9
Std Dev 489

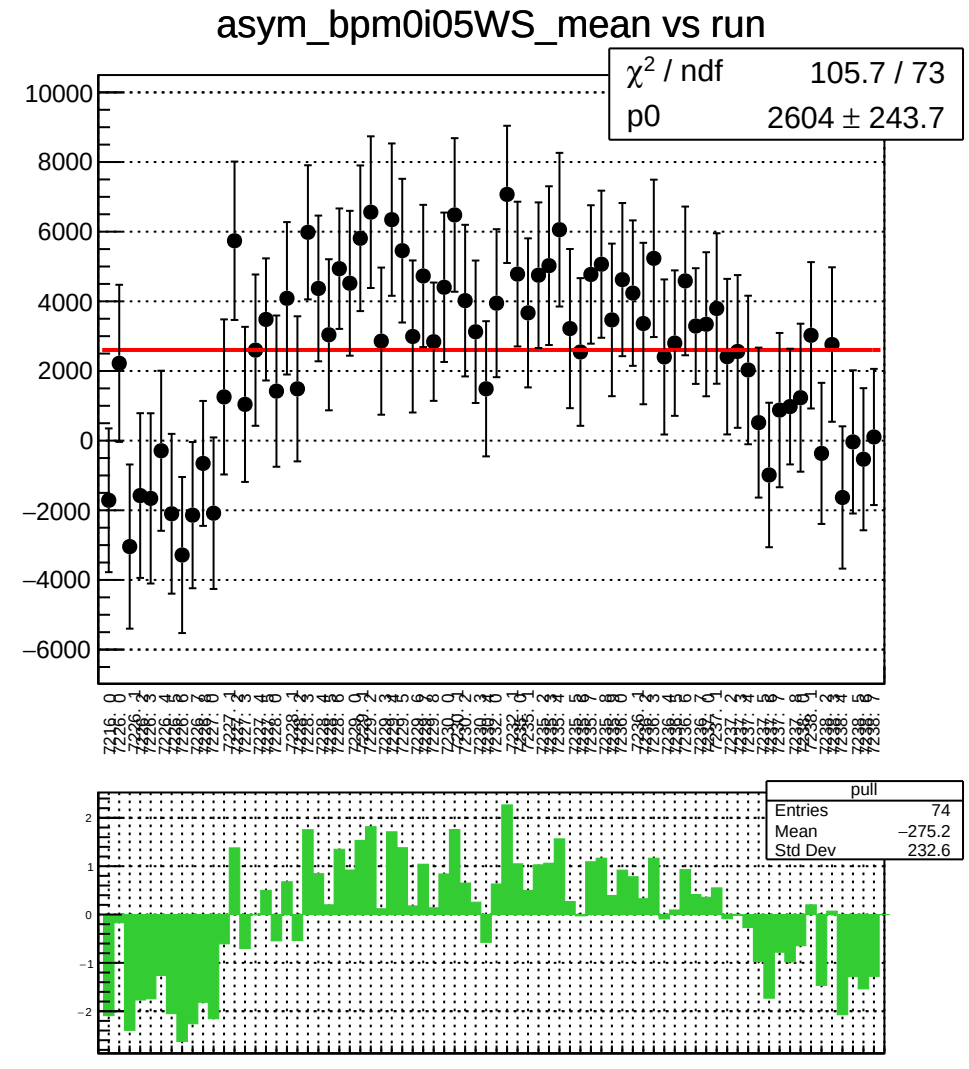

pull1D
Entries 74
Mean 0.5593
Std Dev 2.539

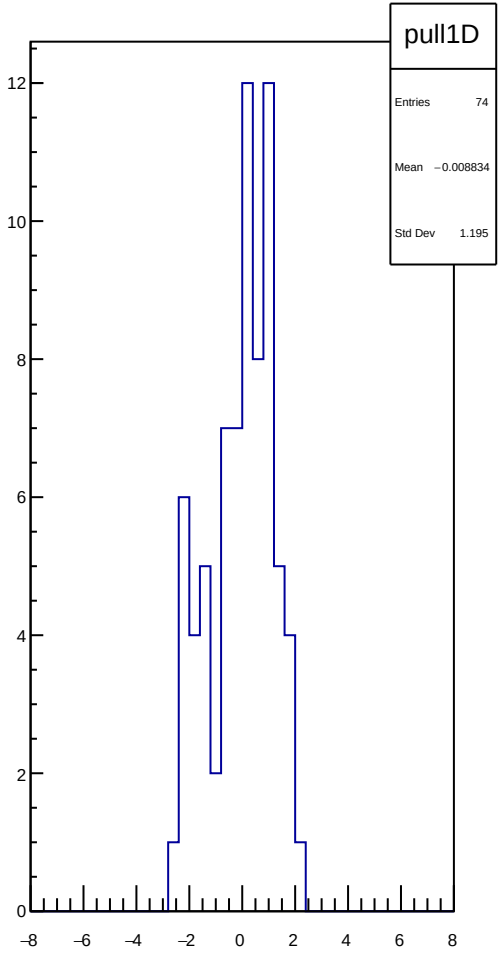

asym_bpm0i02WS_rms vs run
χ² / ndf 2171 / 73
p0 175.2 ± 0.1476
195
190
185
180
175
170
165
160
155

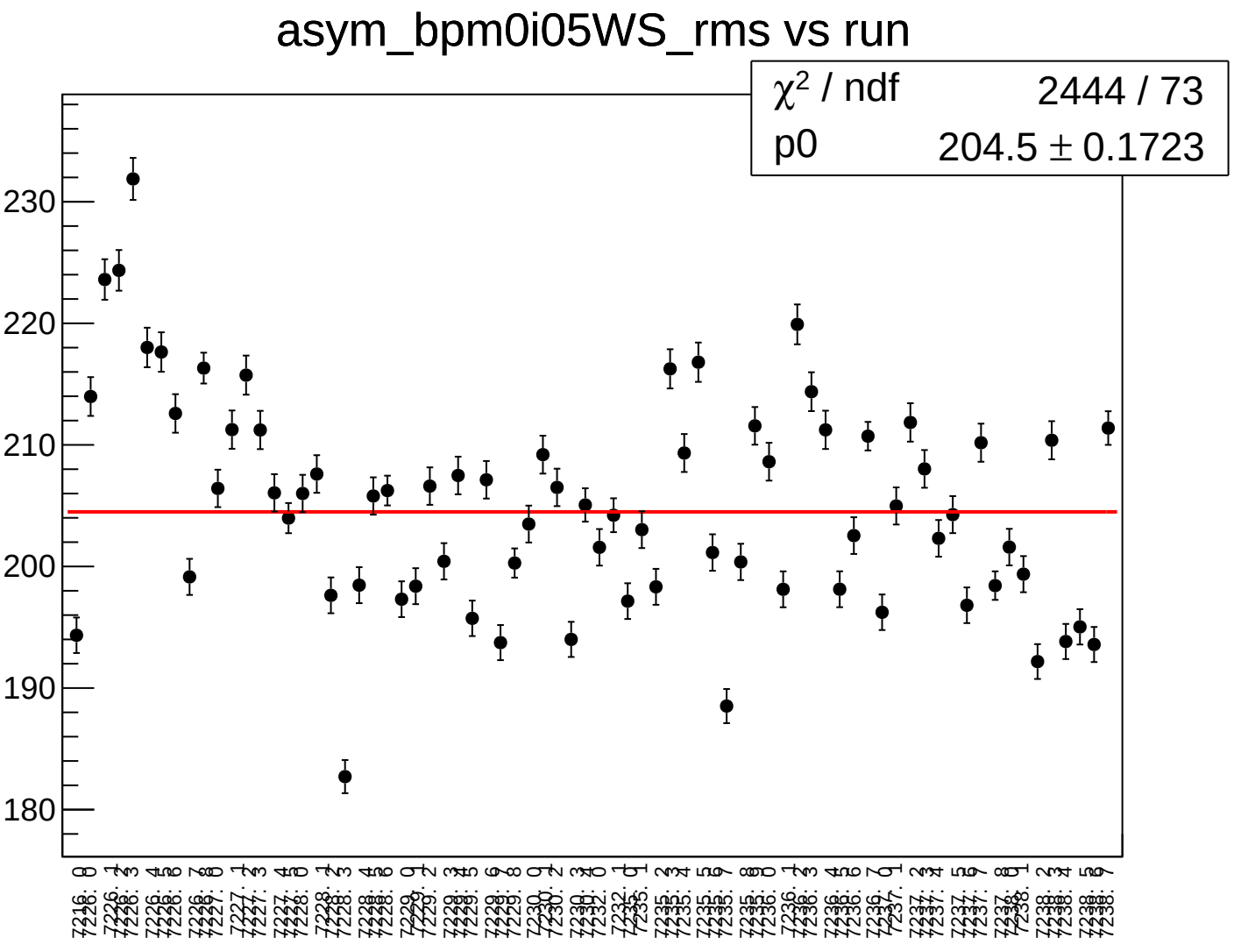

asym_bpm0i02aWS_mean vs run
χ² / ndf 427.1 / 73
p0 8249 ± 226.9
15000
10000
5000
0
−5000
pull
Entries 74
Mean 8173
Std Dev 8155
4
2
0
−2
−4
−6

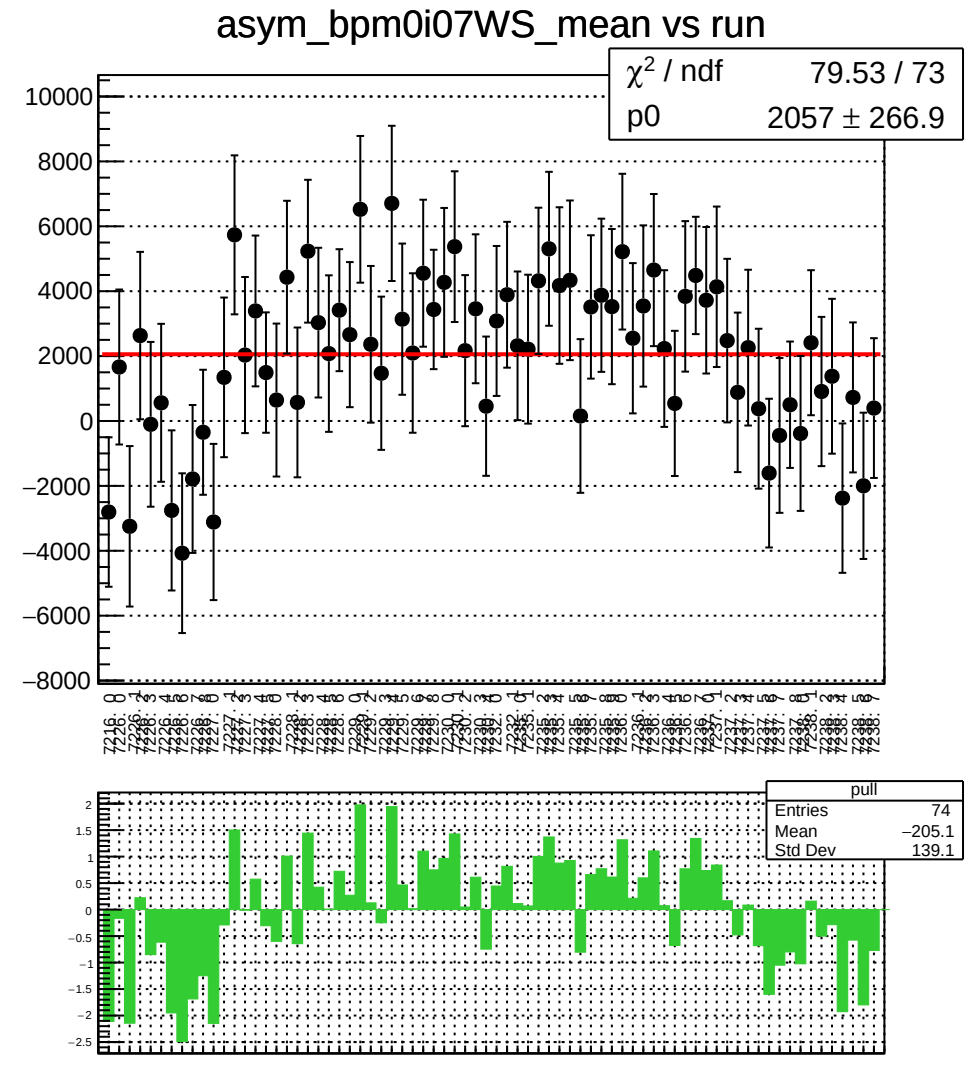

pull1D
Entries 74
Mean 0.002416
Std Dev 2.402
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

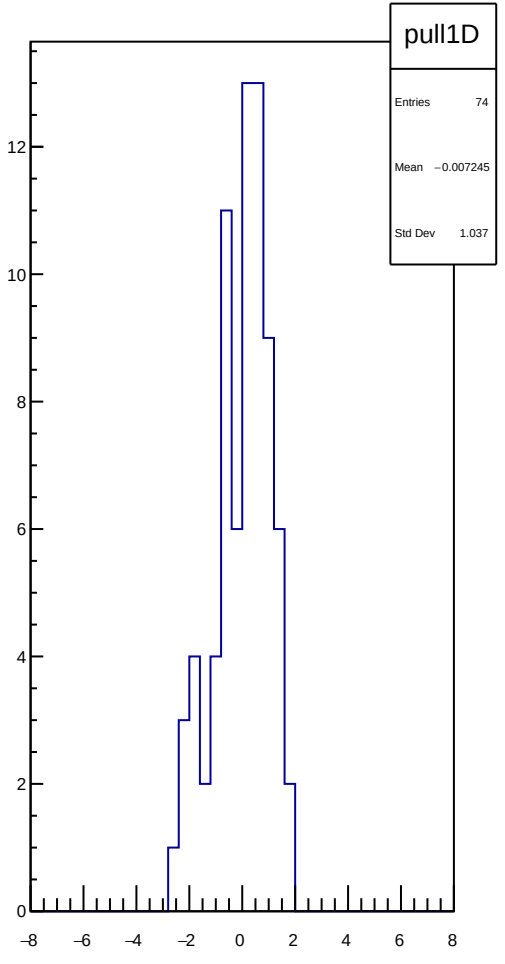

asym_bpm0i02aWS_rms vs run
χ² / ndf 1515 / 73
p0 190.5 ± 0.1605
210
205
200
195
190
185
180
175
170

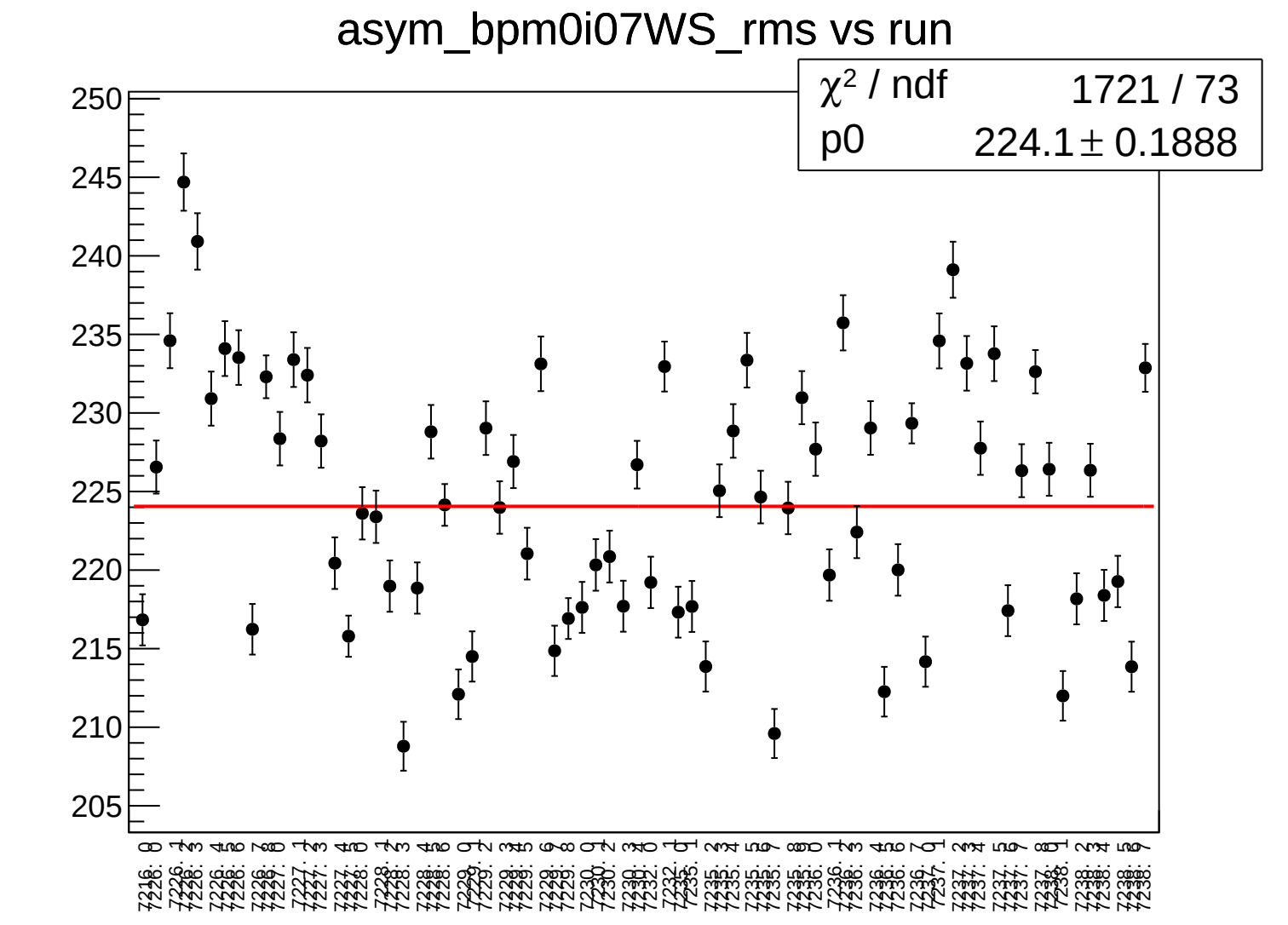

asym_bpm0i05WS_mean vs run
χ² / ndf 105.7 / 73
p0 2604 ± 243.7
pull
Entries 74
Mean −275.2
Std Dev 232.6

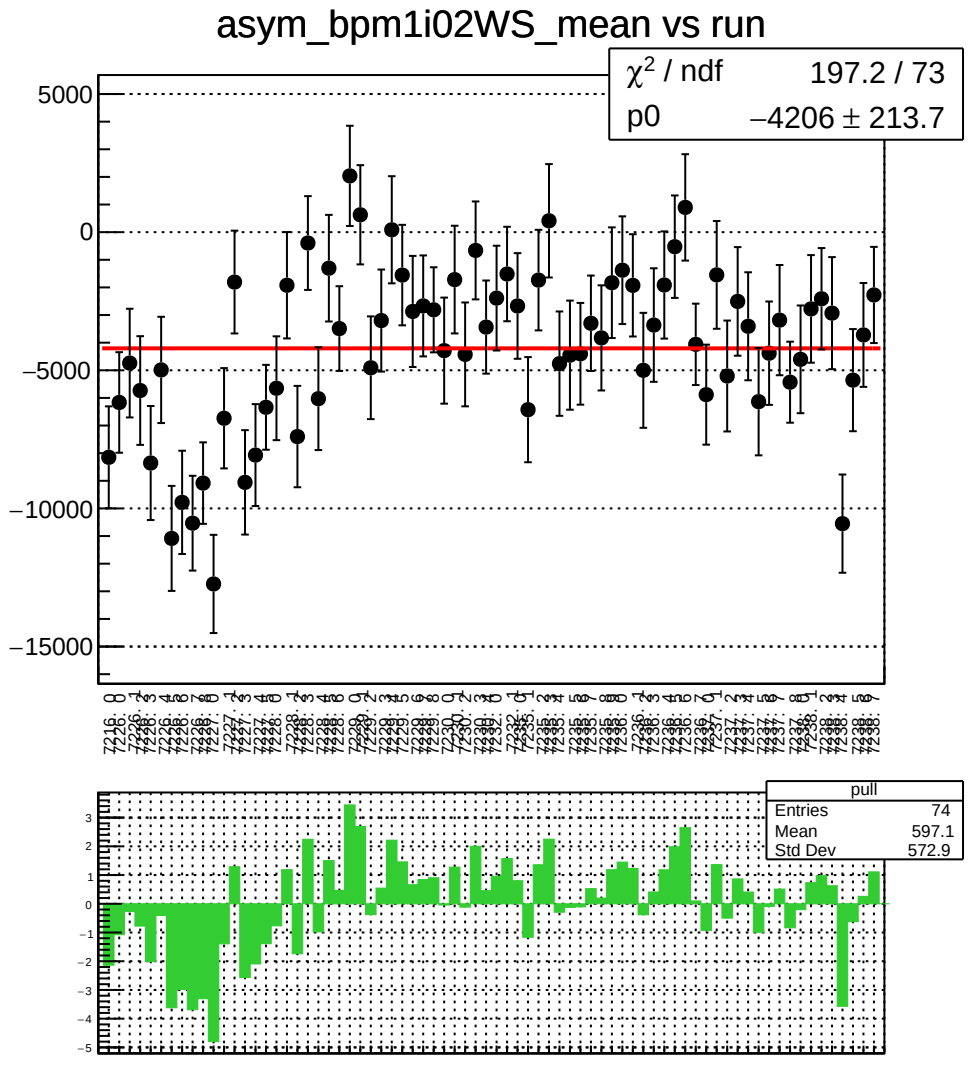

pull1D
Entries 74
Mean −0.008834
Std Dev 1.195

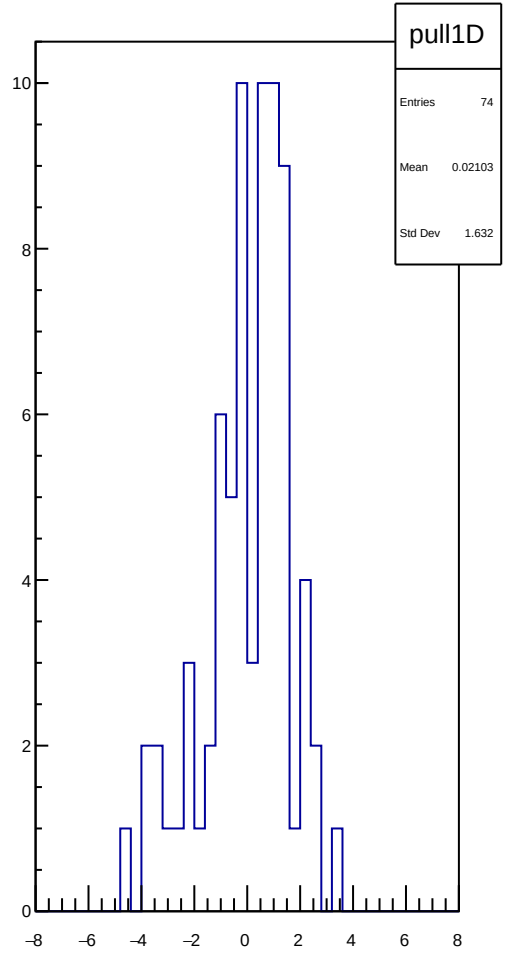

asym_bpm0i05WS_rms vs run
χ² / ndf 2444 / 73
p0 204.5 ± 0.1723
230
220
210
200
190
180

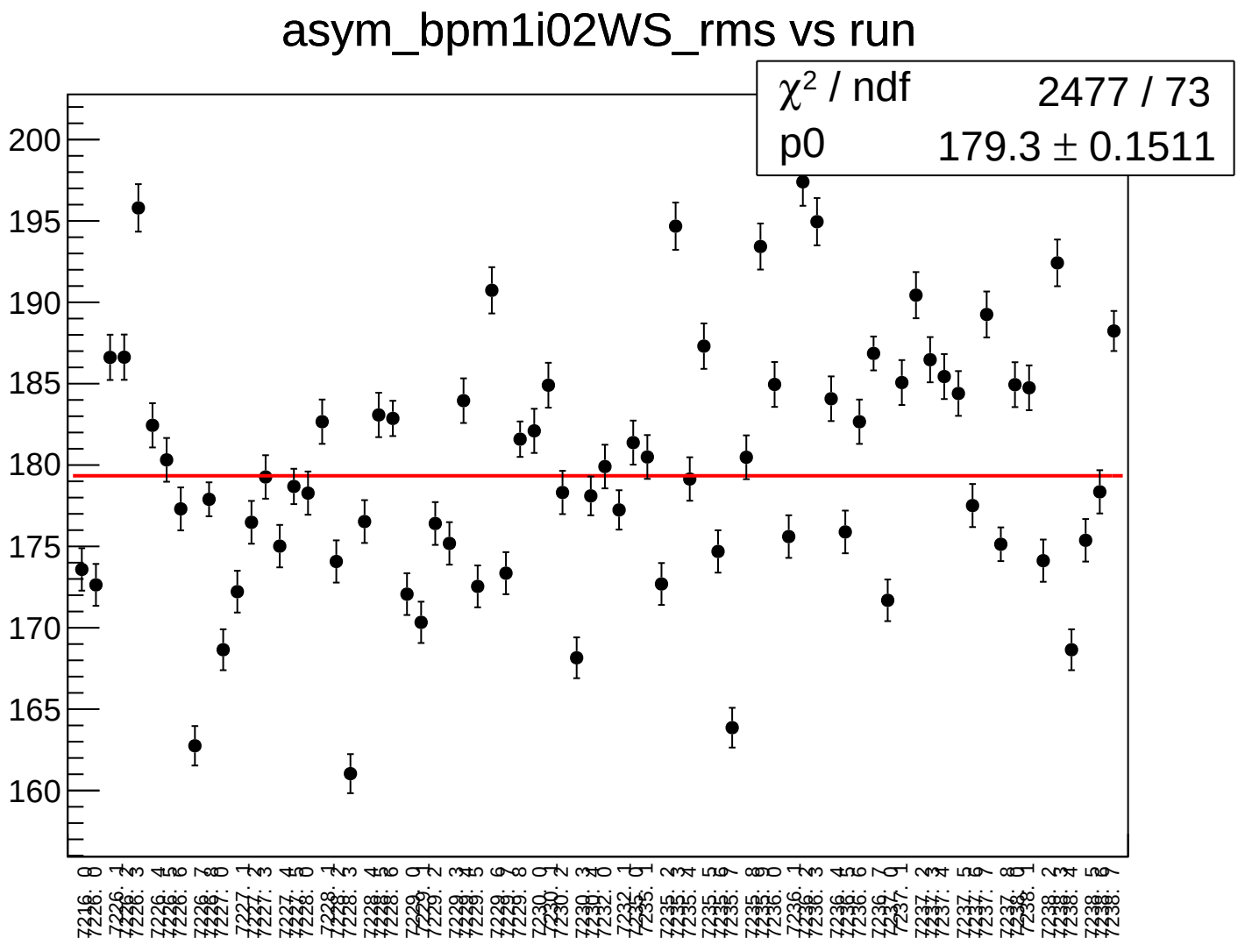

asym_bpm0i07WS_mean vs run
χ² / ndf 79.53 / 73
p0 2057 ± 266.9
pull
Entries 74
Mean −205.1
Std Dev 139.1

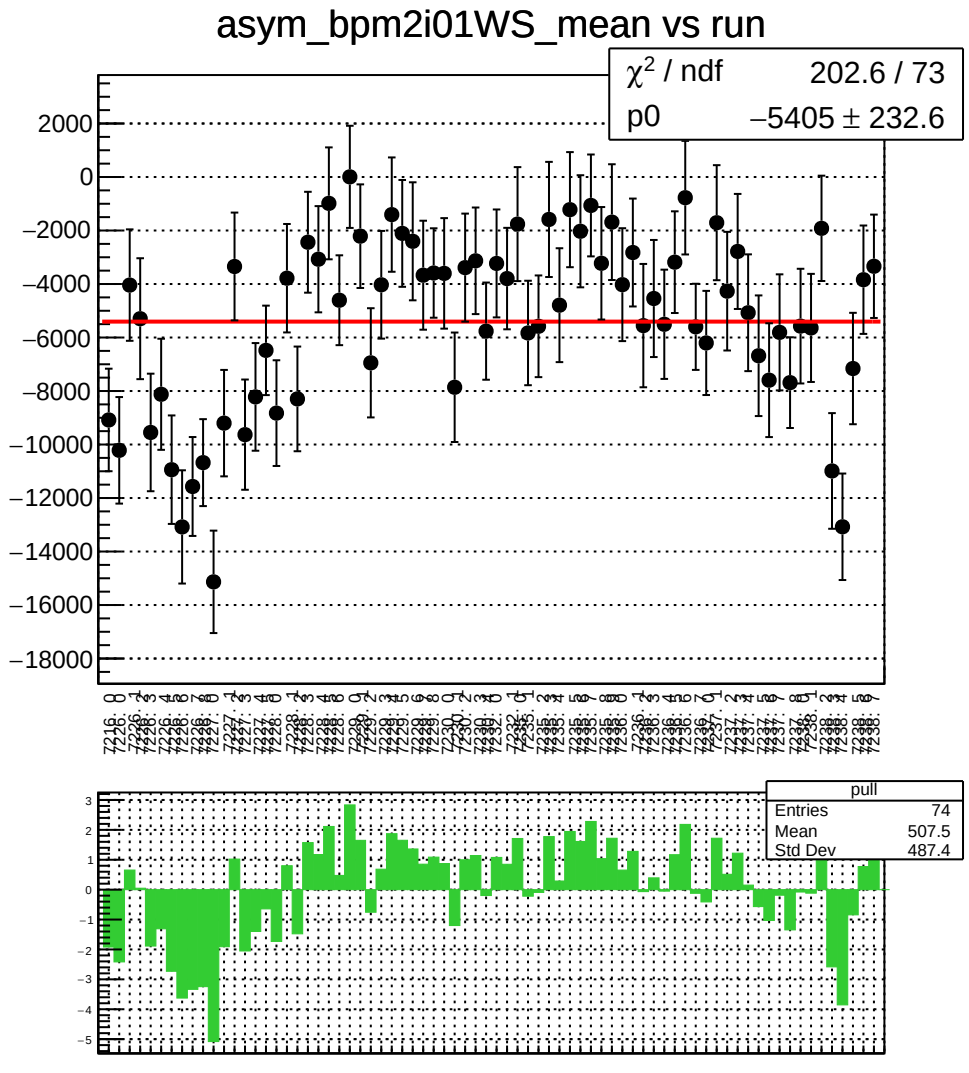

pull1D
Entries 74
Mean −0.007245
Std Dev 1.037

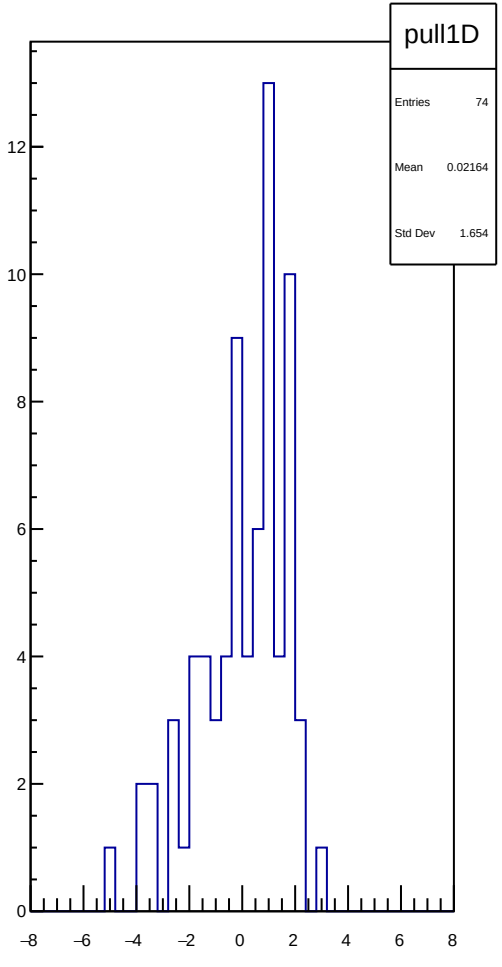

asym_bpm0i07WS_rms vs run
χ² / ndf 1721 / 73
p0 224.1 ± 0.1888
250
245
240
235
230
225
220
215
210
205

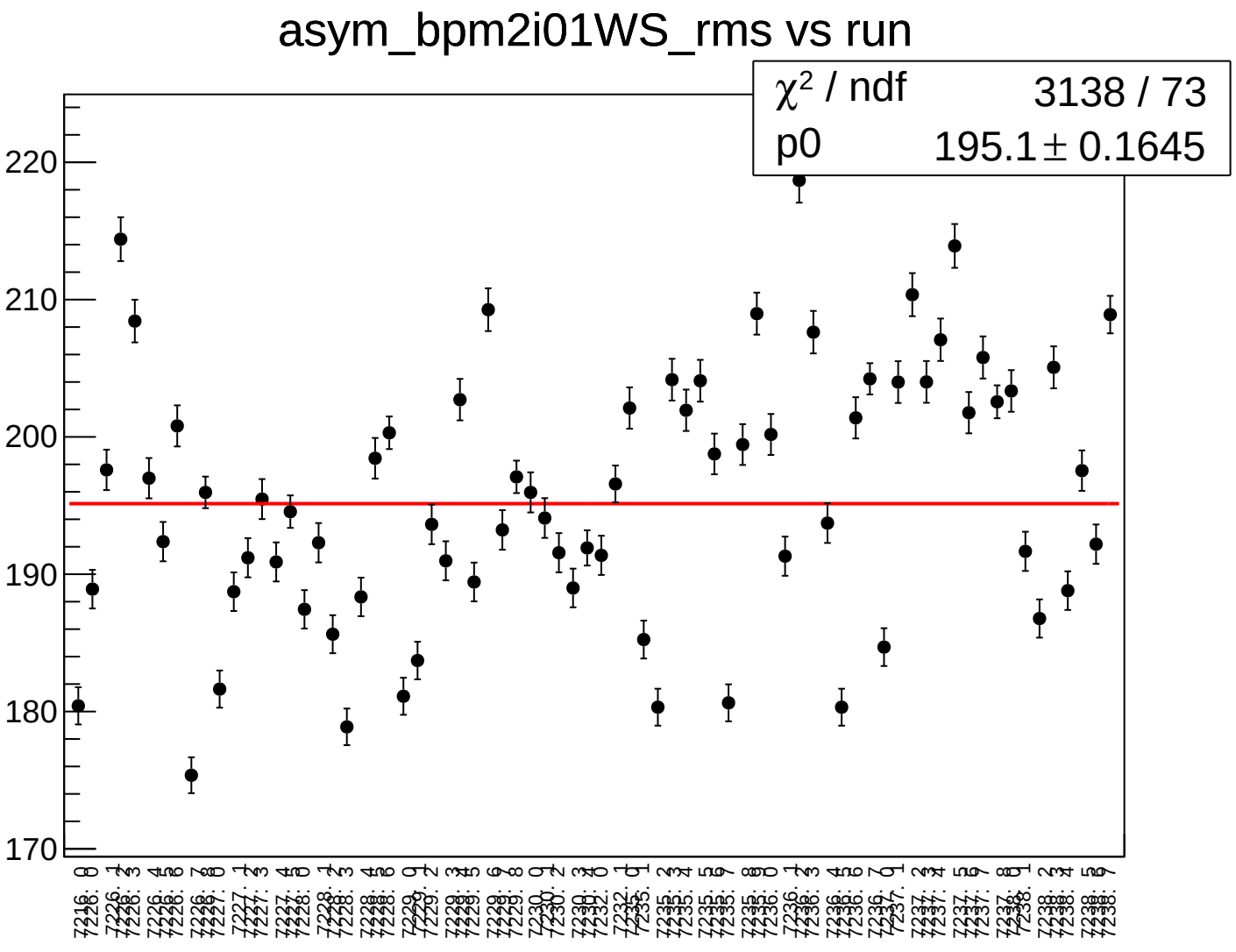

asym_bpm1i02WS_mean vs run
χ² / ndf 197.2 / 73
p0 −4206 ± 213.7
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 597.1
Std Dev 572.9
3
2
1
0
−1
−2
−3
−4
−5

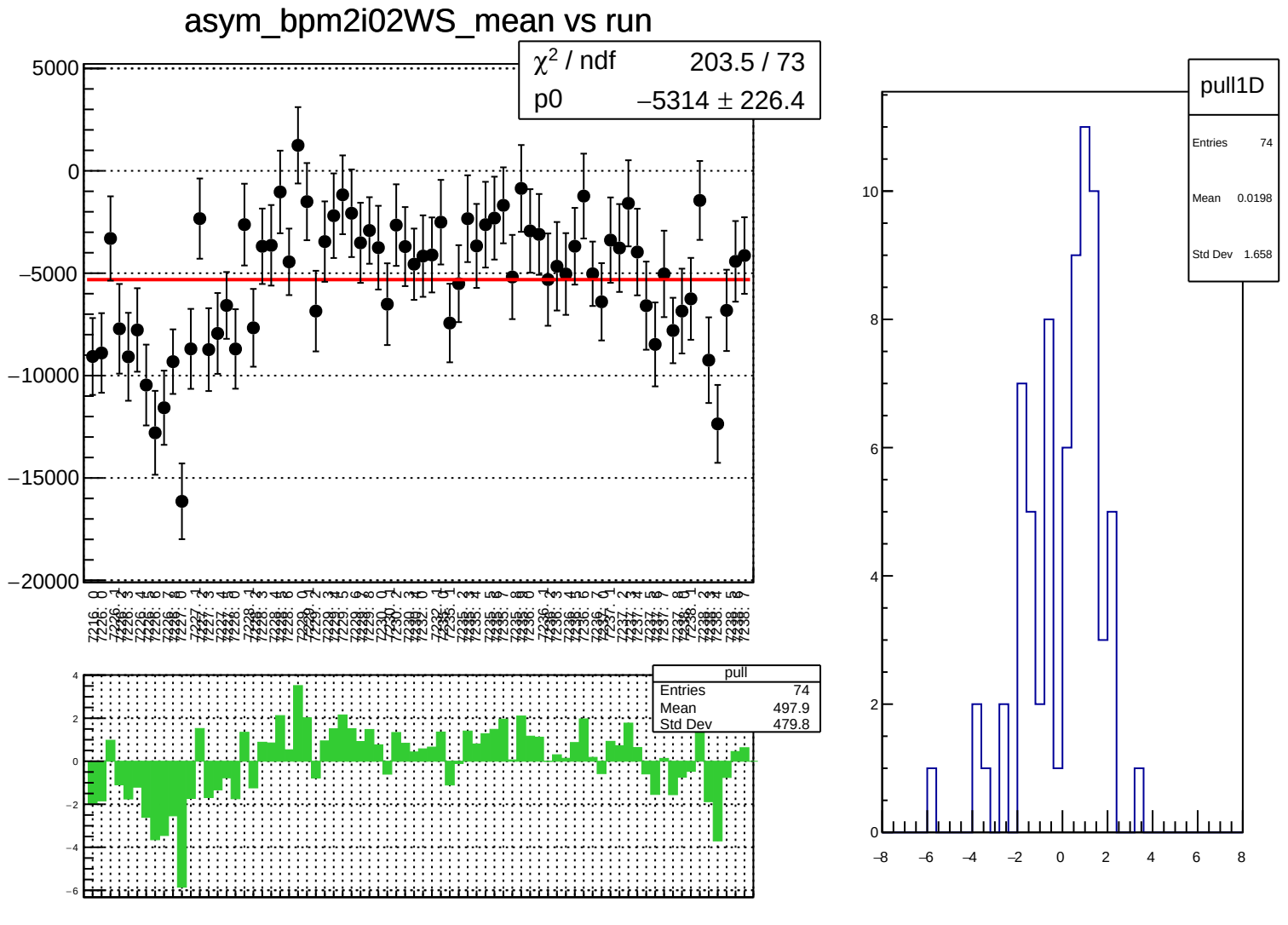

pull1D
Entries 74
Mean 0.02103
Std Dev 1.632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

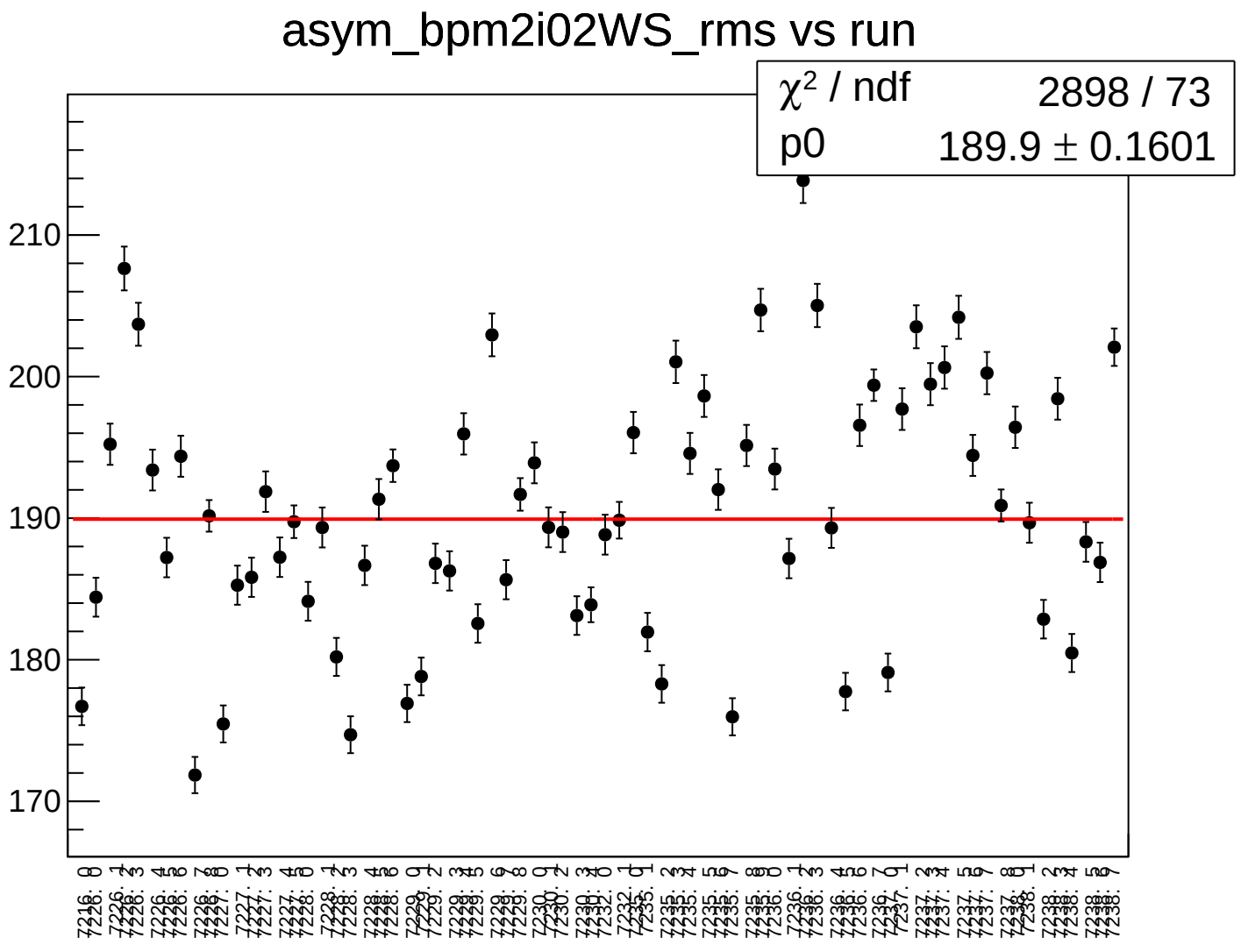

asym_bpm1i02WS_rms vs run
χ² / ndf 2477 / 73
p0 179.3 ± 0.1511
200
195
190
185
180
175
170
165
160

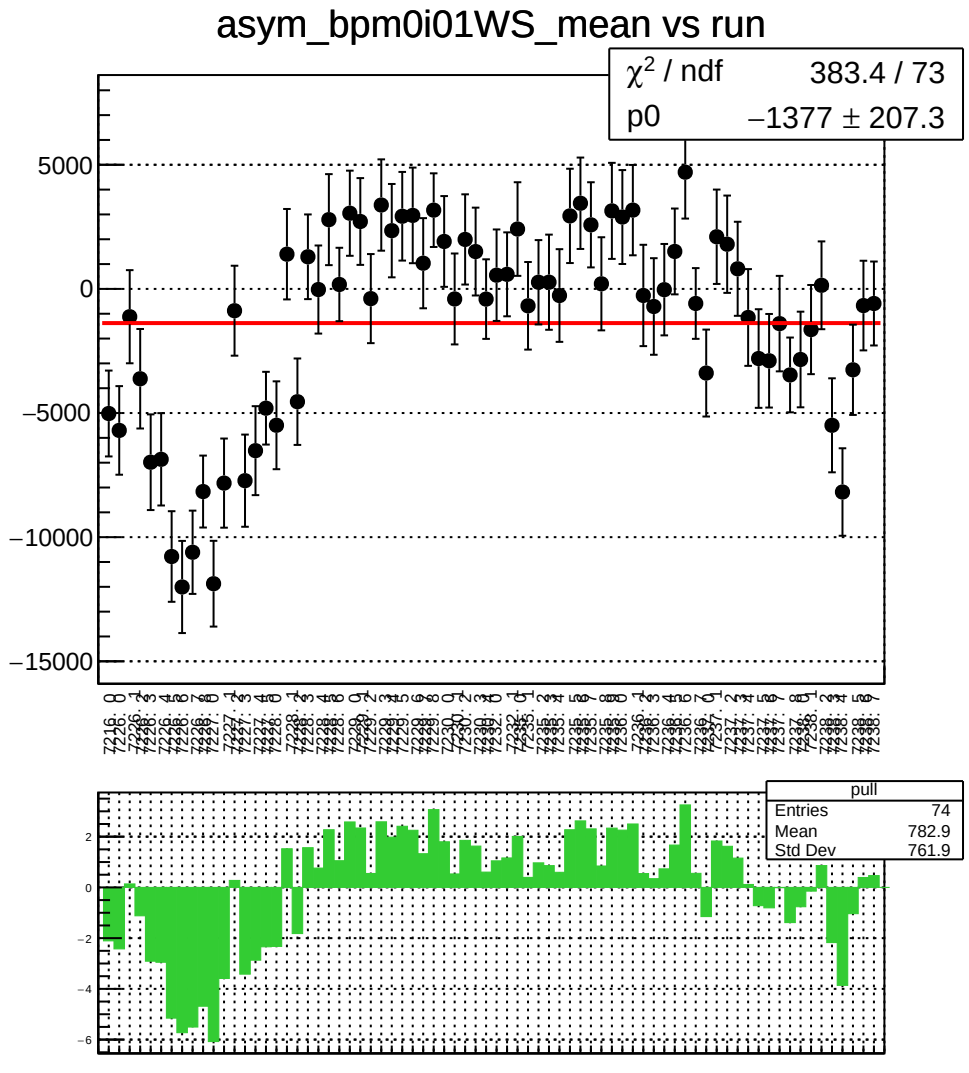

asym_bpm2i01WS_mean vs run
χ² / ndf 202.6 / 73
p0 −5405 ± 232.6
pull
Entries 74
Mean 507.5
Std Dev 487.4

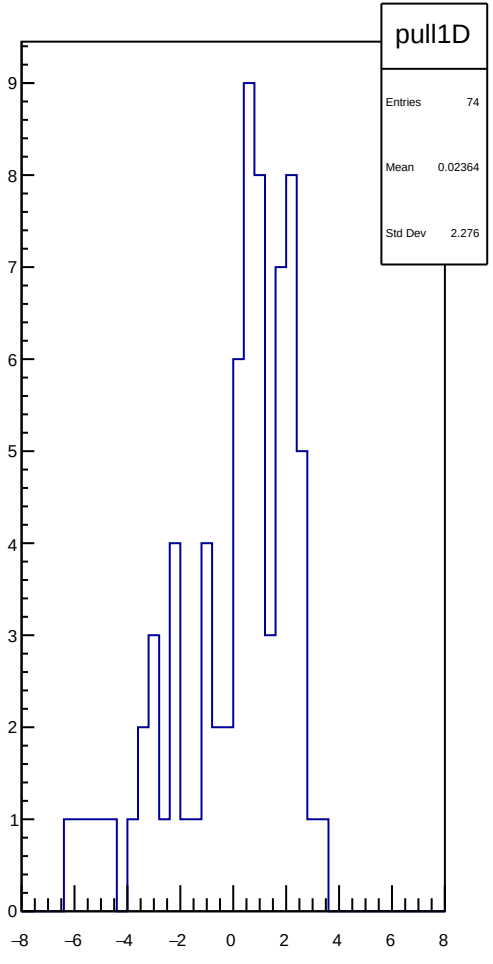

pull1D
Entries 74
Mean 0.02164
Std Dev 1.654

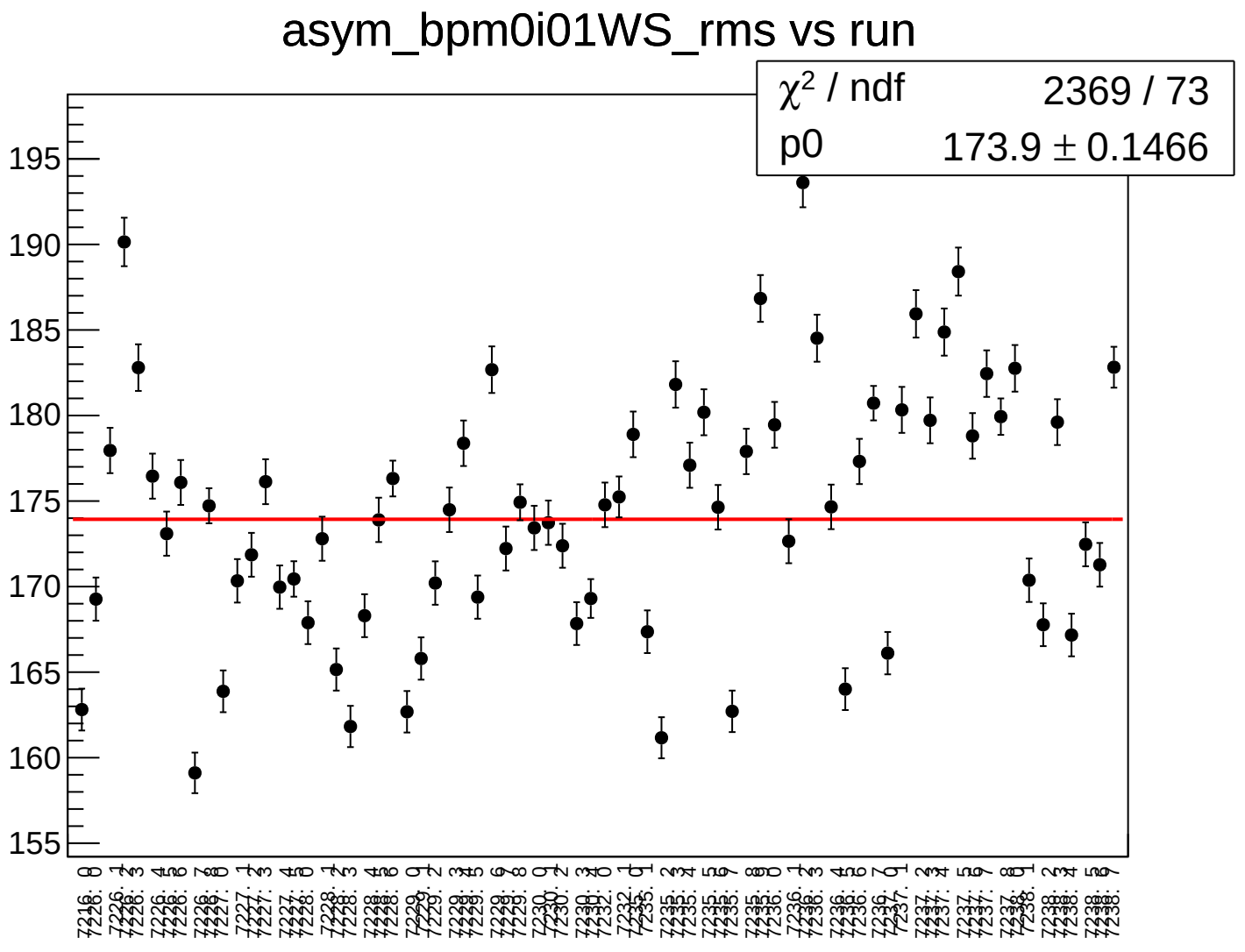

asym_bpm2i01WS_rms vs run
χ² / ndf 3138 / 73
p0 195.1 ± 0.1645
220
210
200
190
180
170

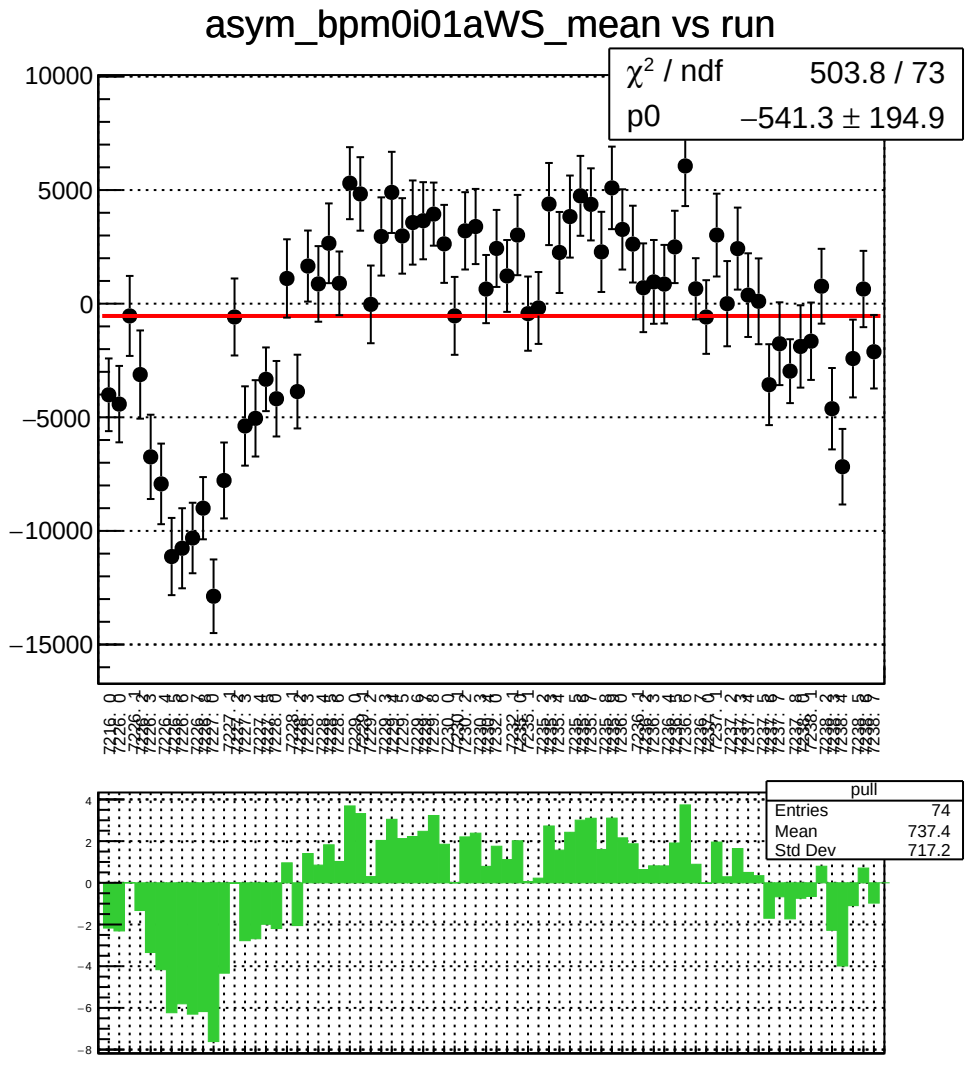

asym_bpm2i02WS_mean vs run
χ² / ndf 203.5 / 73
p0 −5314 ± 226.4
pull
Entries 74
Mean 497.9
Std Dev 479.8
pull1D
Entries 74
Mean 0.0198
Std Dev 1.658

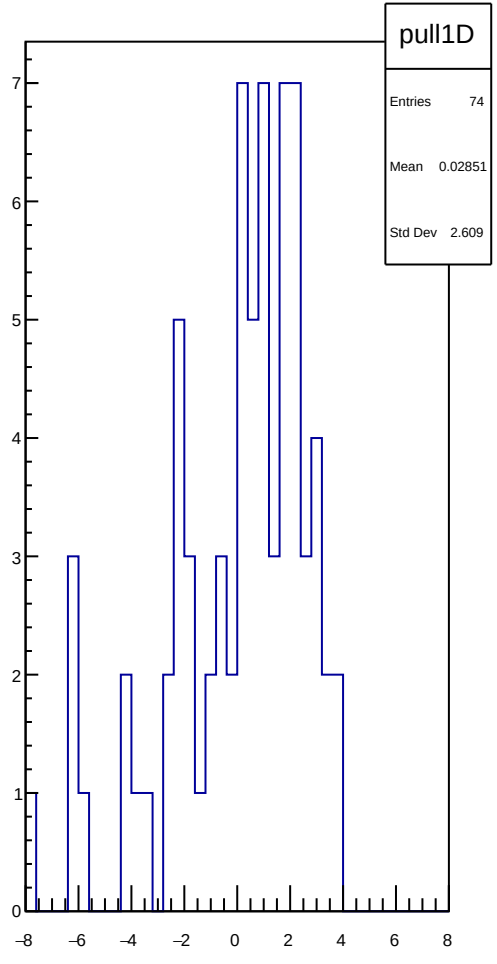

asym_bpm2i02WS_rms vs run
χ² / ndf 2898 / 73
p0 189.9 ± 0.1601
210
200
190
180
170

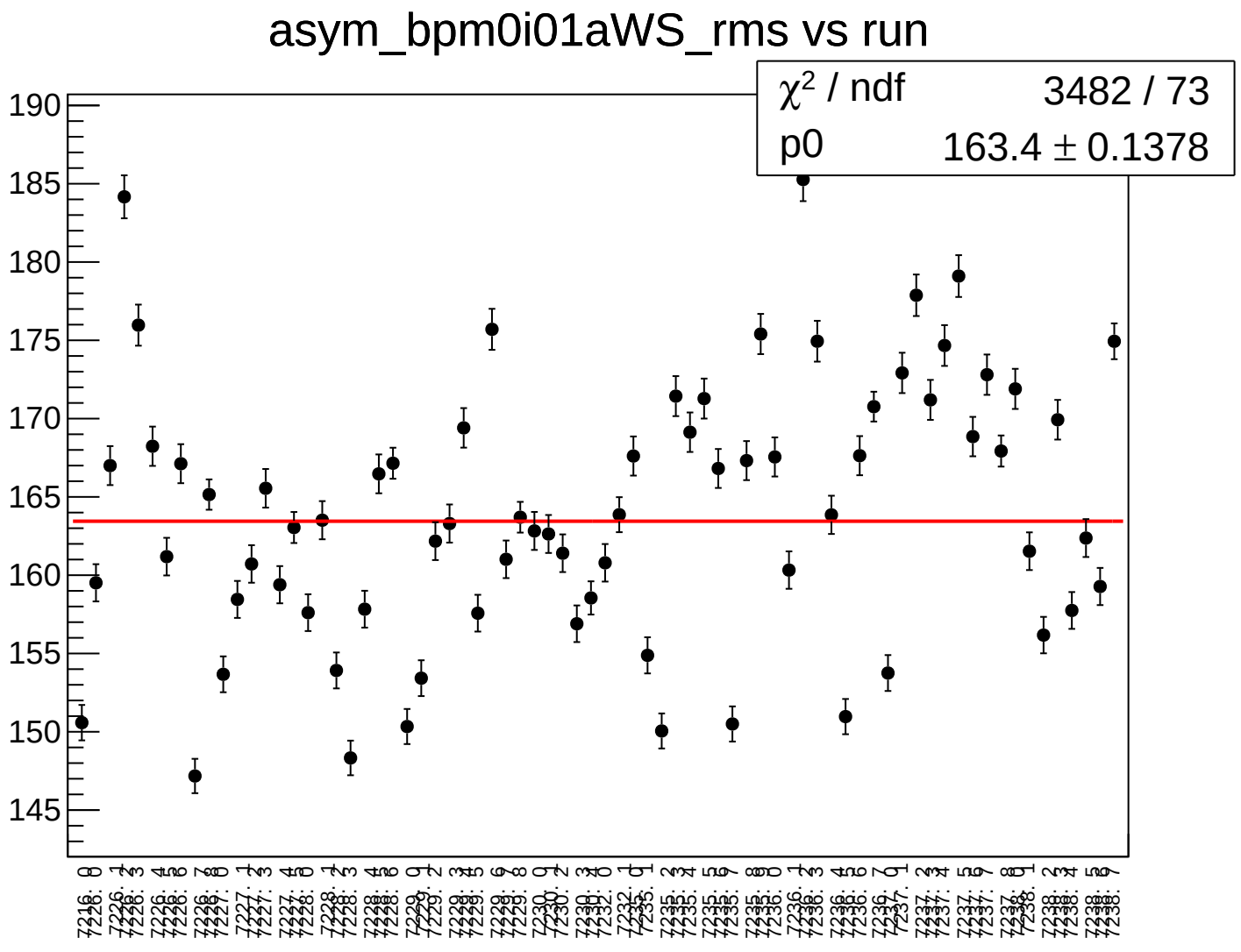

asym_bpm0i01WS_mean vs run
χ² / ndf 383.4 / 73
p0 −1377 ± 207.3
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 782.9
Std Dev 761.9
2
0
−2
−4
−6

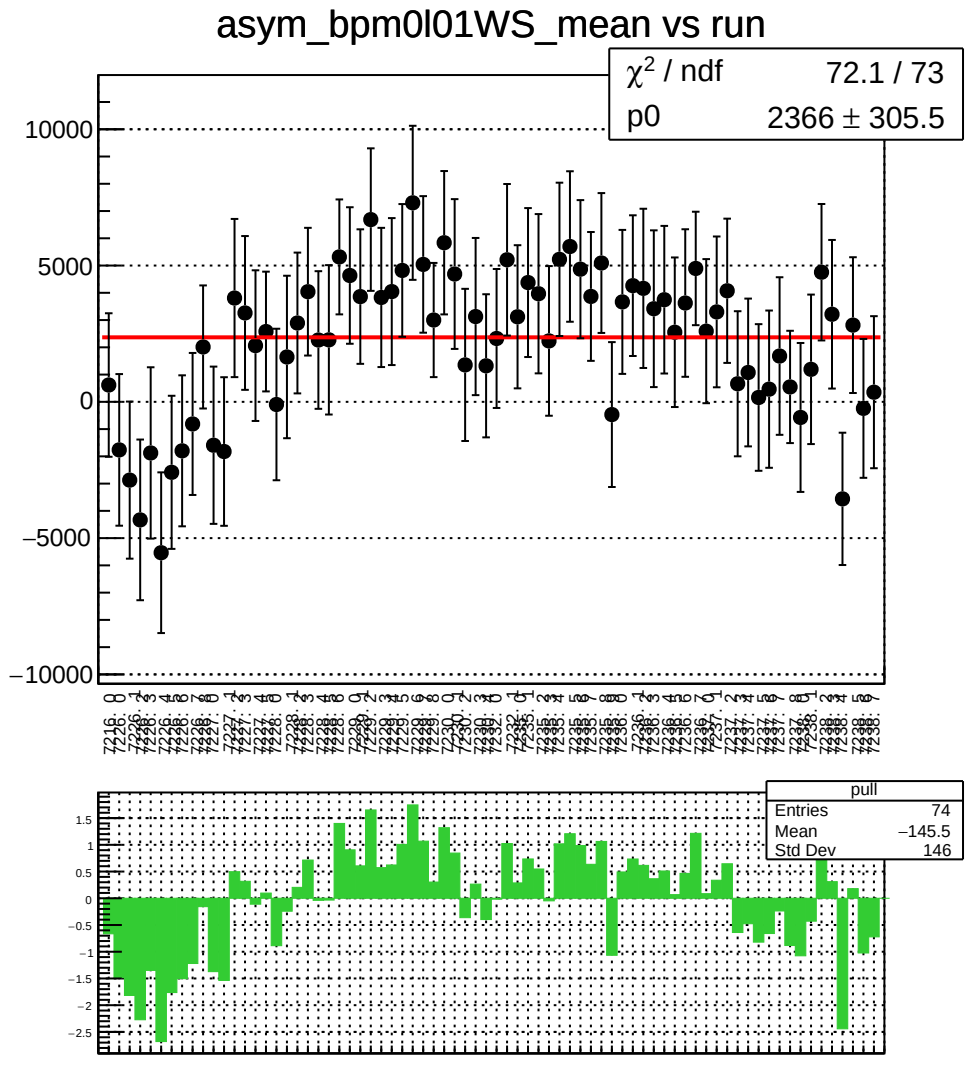

pull1D
Entries 74
Mean 0.02364
Std Dev 2.276
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

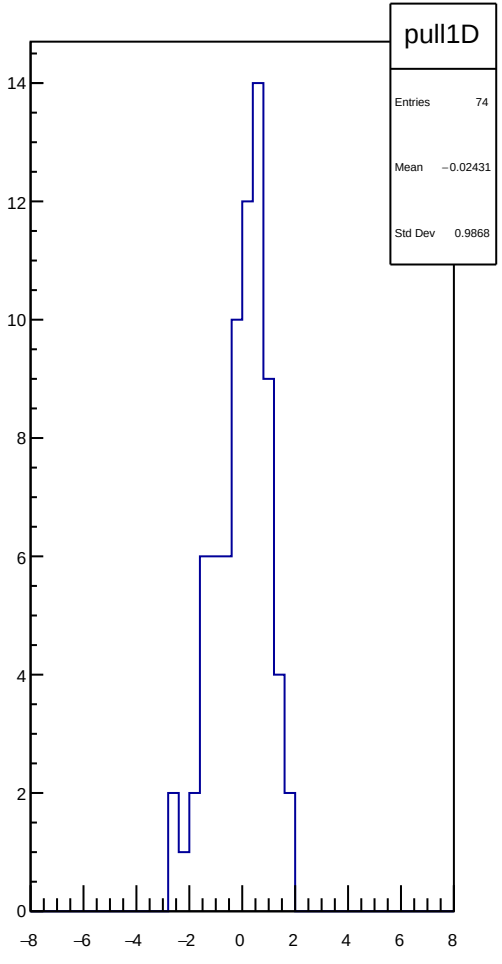

asym_bpm0i01WS_rms vs run
χ² / ndf 2369 / 73
p0 173.9 ± 0.1466
195
190
185
180
175
170
165
160
155

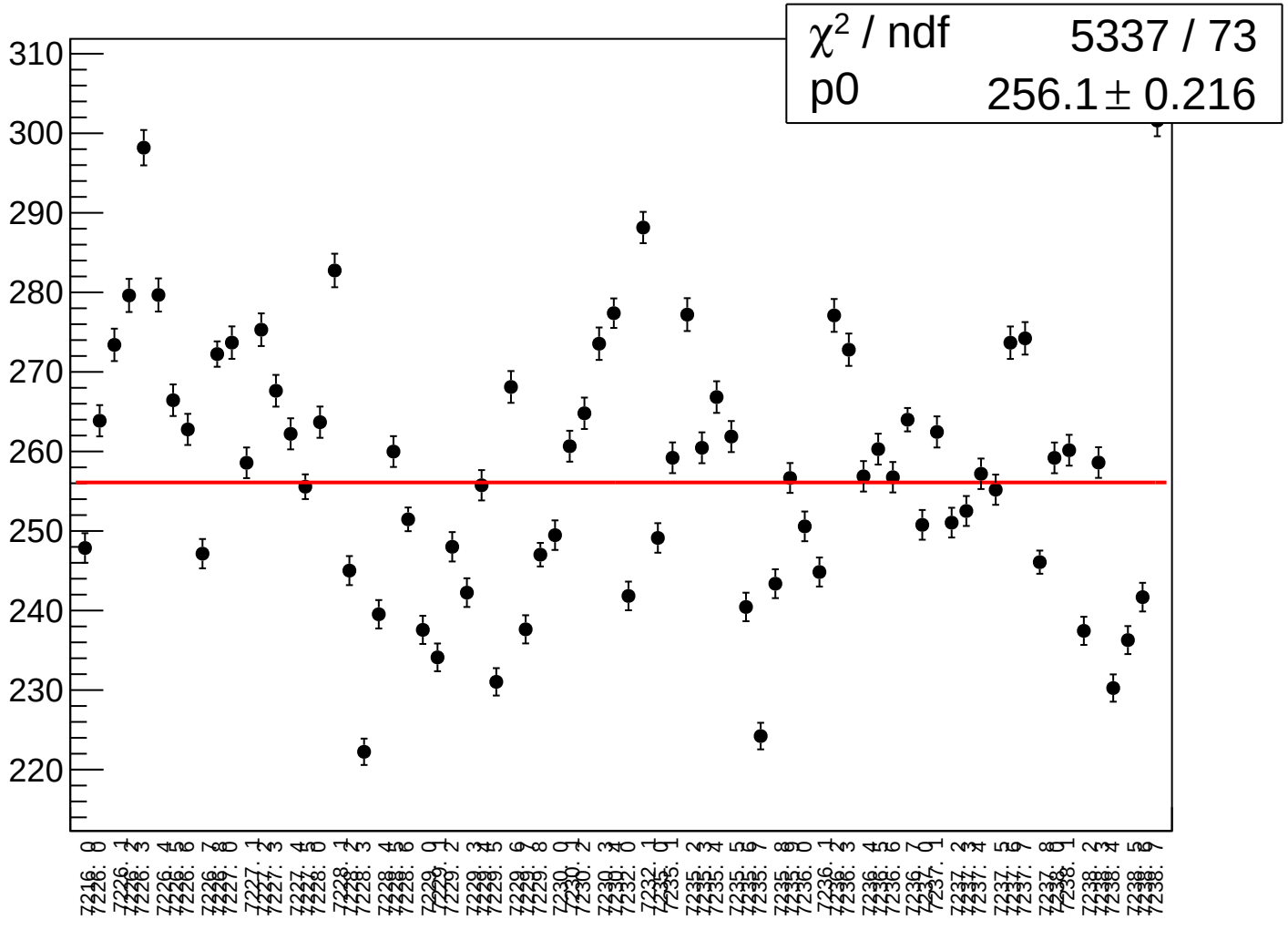

asym_bpm0i01aWS_mean vs run
χ² / ndf 503.8 / 73
p0 −541.3 ± 194.9
pull
Entries 74
Mean 737.4
Std Dev 717.2

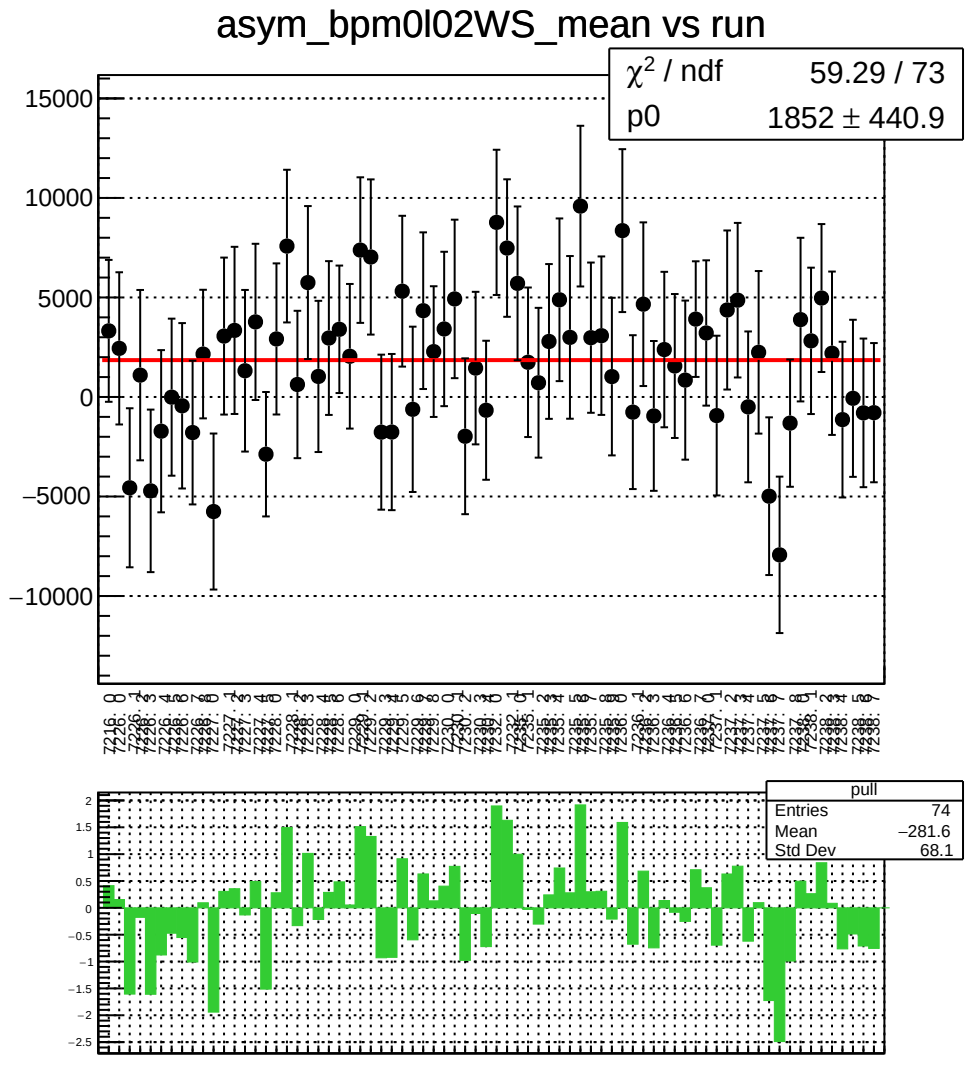

pull1D
Entries 74
Mean 0.02851
Std Dev 2.609

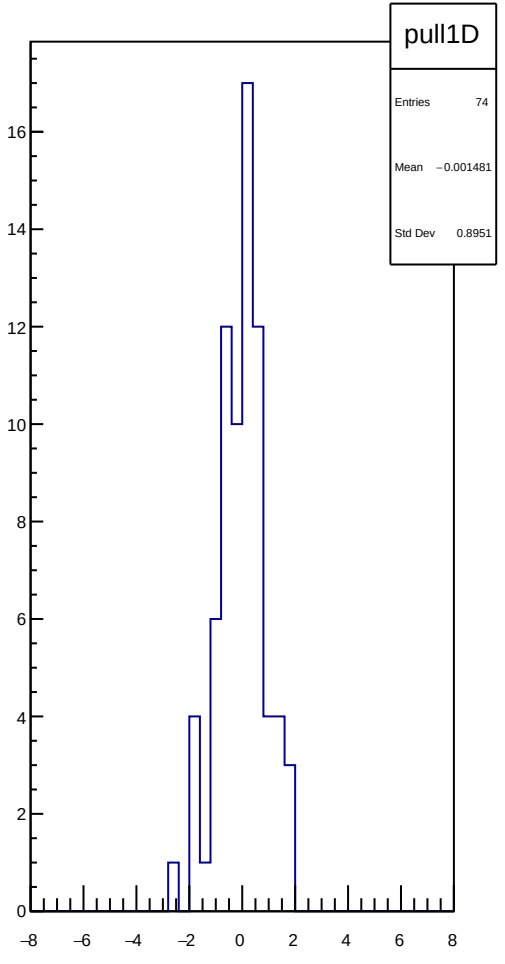

asym_bpm0i01aWS_rms vs run
χ² / ndf 3482 / 73
p0 163.4 ± 0.1378
190
185
180
175
170
165
160
155
150
145

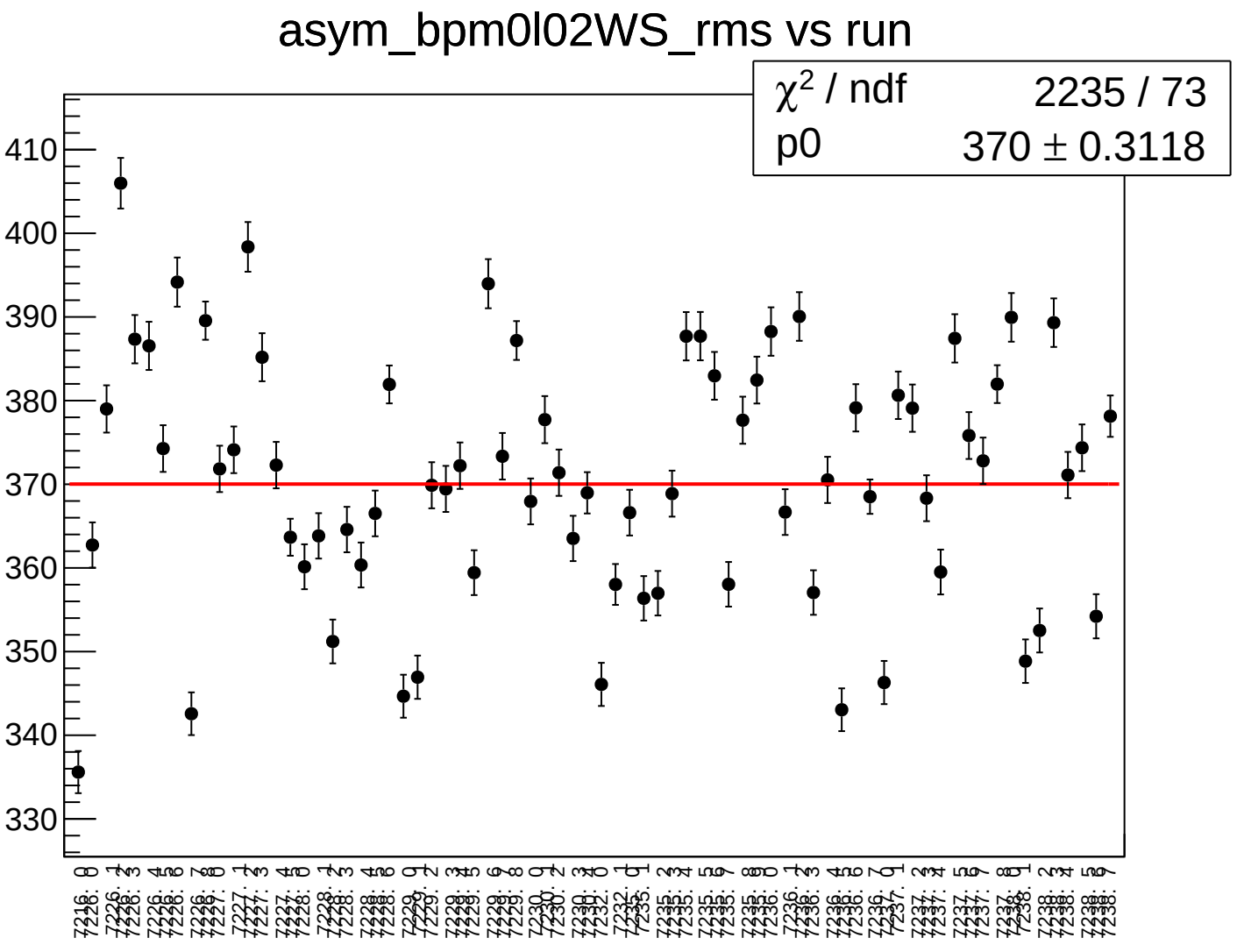

asym_bpm0l01WS_mean vs run
χ² / ndf 72.1 / 73
p0 2366 ± 305.5
pull
Entries 74
Mean −145.5
Std Dev 146

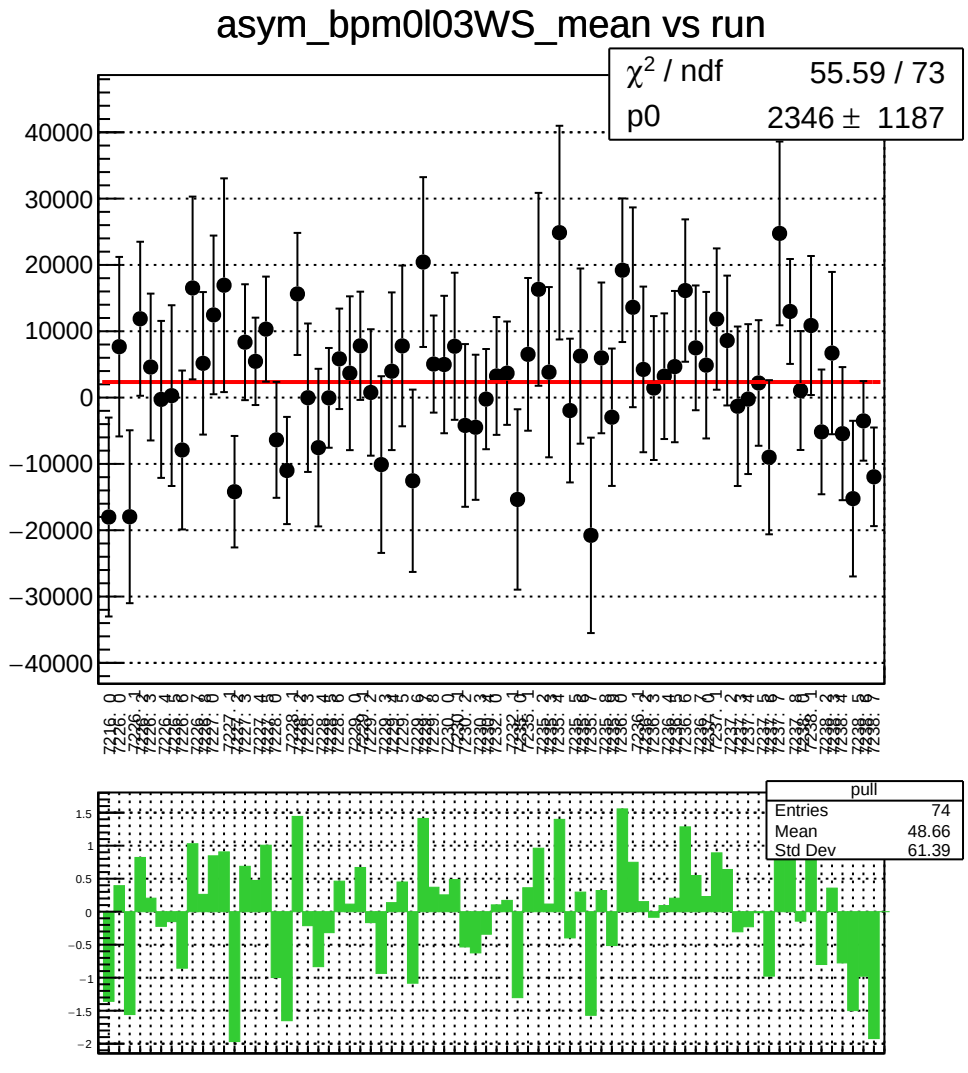

pull1D
Entries 74
Mean −0.02431
Std Dev 0.9868

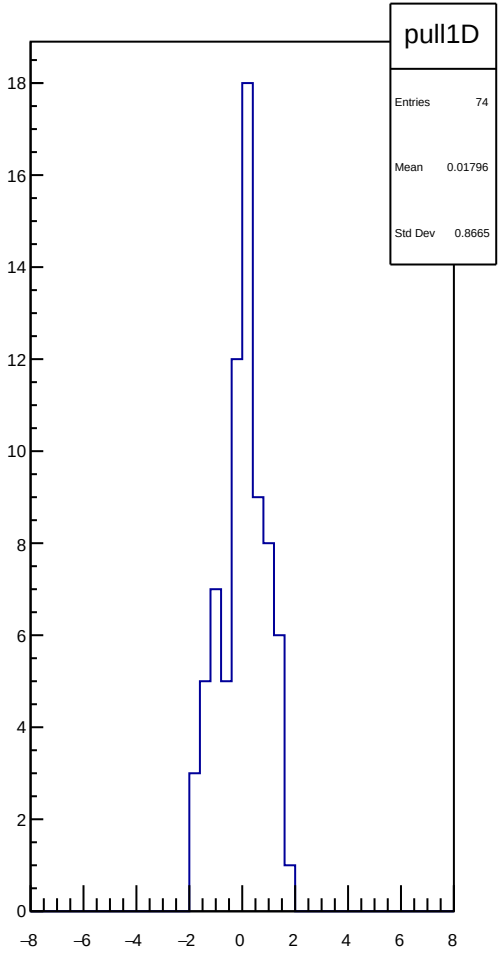

asym_bpm0l01WS_rms vs run
χ² / ndf 5337 / 73
p0 256.1 ± 0.216
310
300
290
280
270
260
250
240
230
220

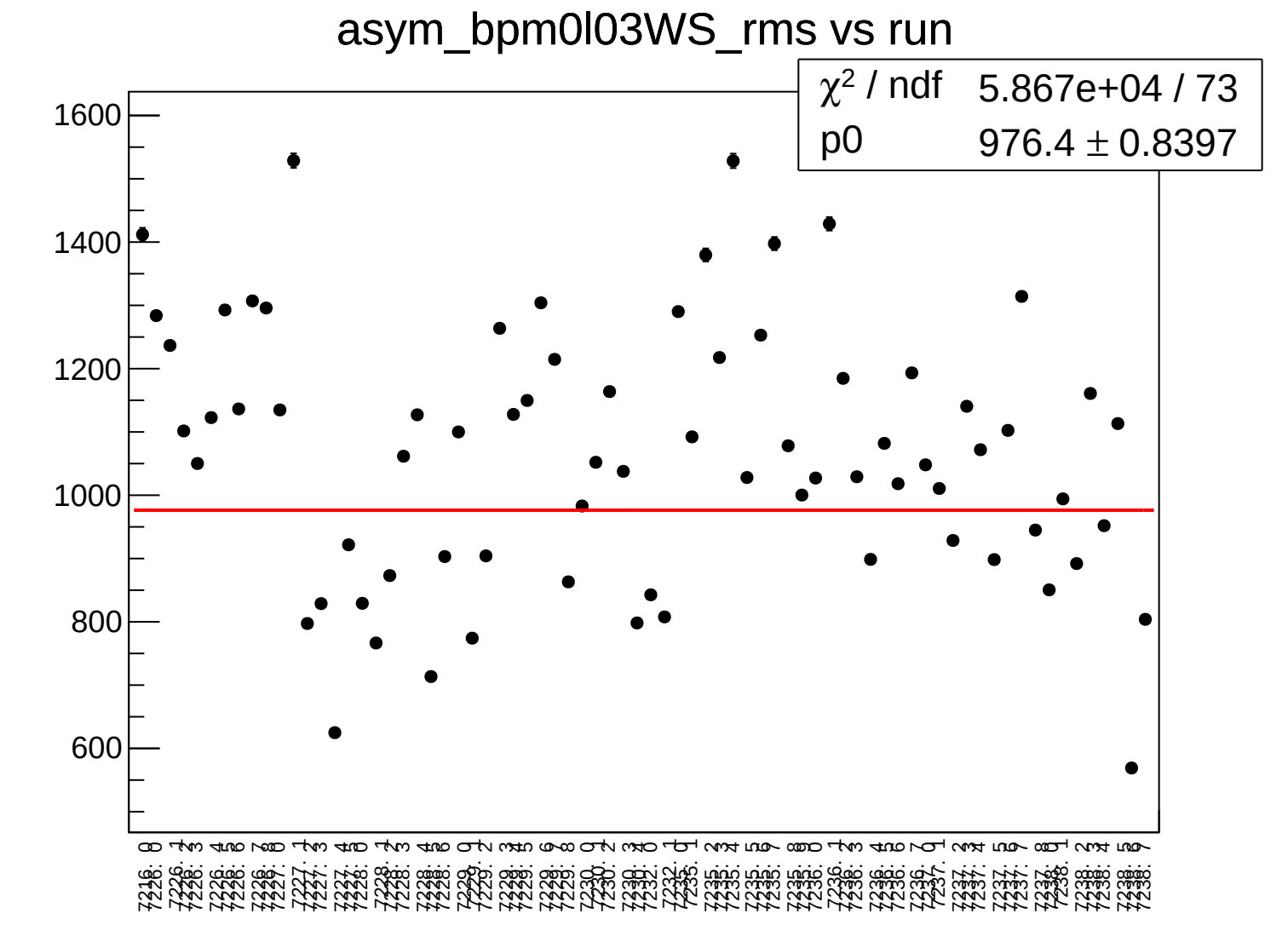

asym_bpm0l02WS_mean vs run
χ² / ndf 59.29 / 73
p0 1852 ± 440.9
15000
10000
5000
0
−5000
−10000
pull
Entries 74
Mean −281.6
Std Dev 68.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

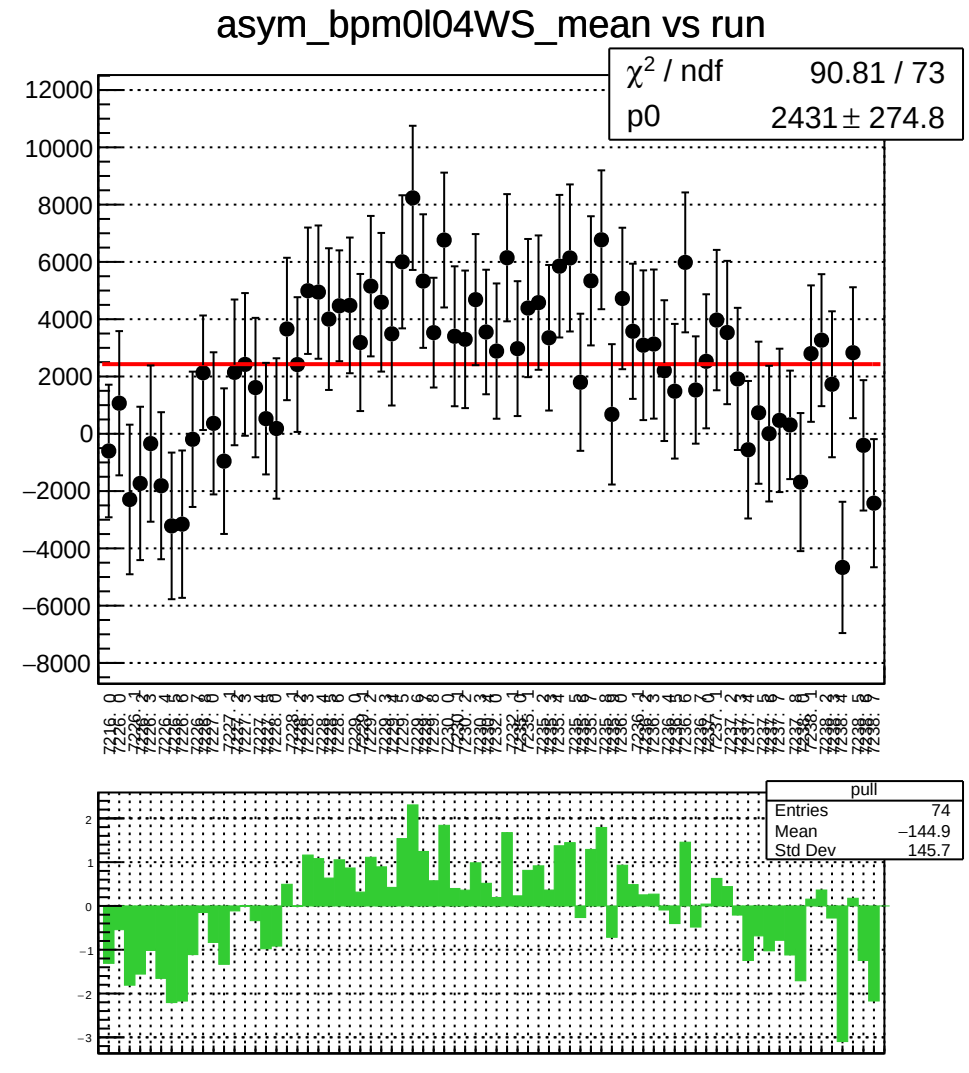

pull1D
Entries 74
Mean −0.001481
Std Dev 0.8951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

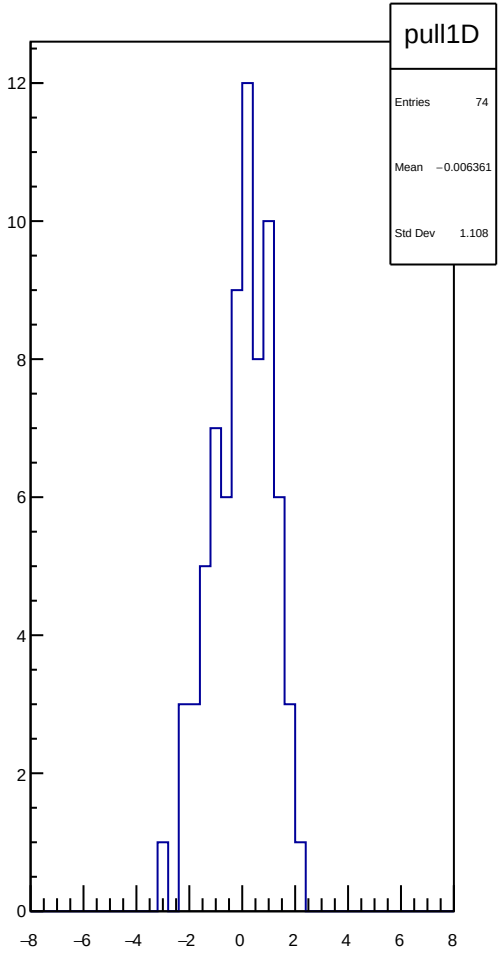

asym_bpm0l02WS_rms vs run
χ² / ndf 2235 / 73
p0 370 ± 0.3118
410
400
390
380
370
360
350
340
330

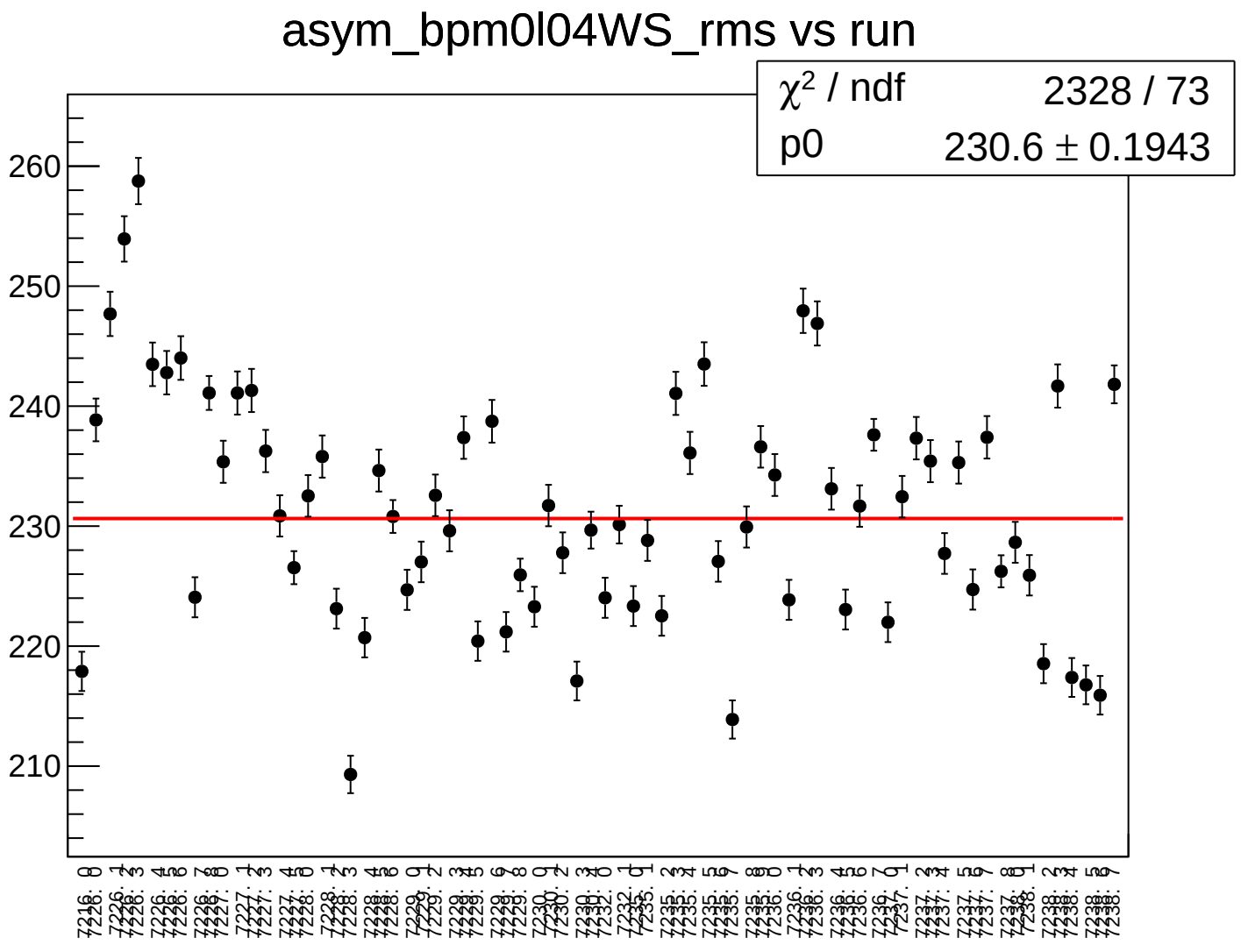

asym_bpm0l03WS_mean vs run
χ² / ndf 55.59 / 73
p0 2346 ± 1187
pull
Entries 74
Mean 48.66
Std Dev 61.39

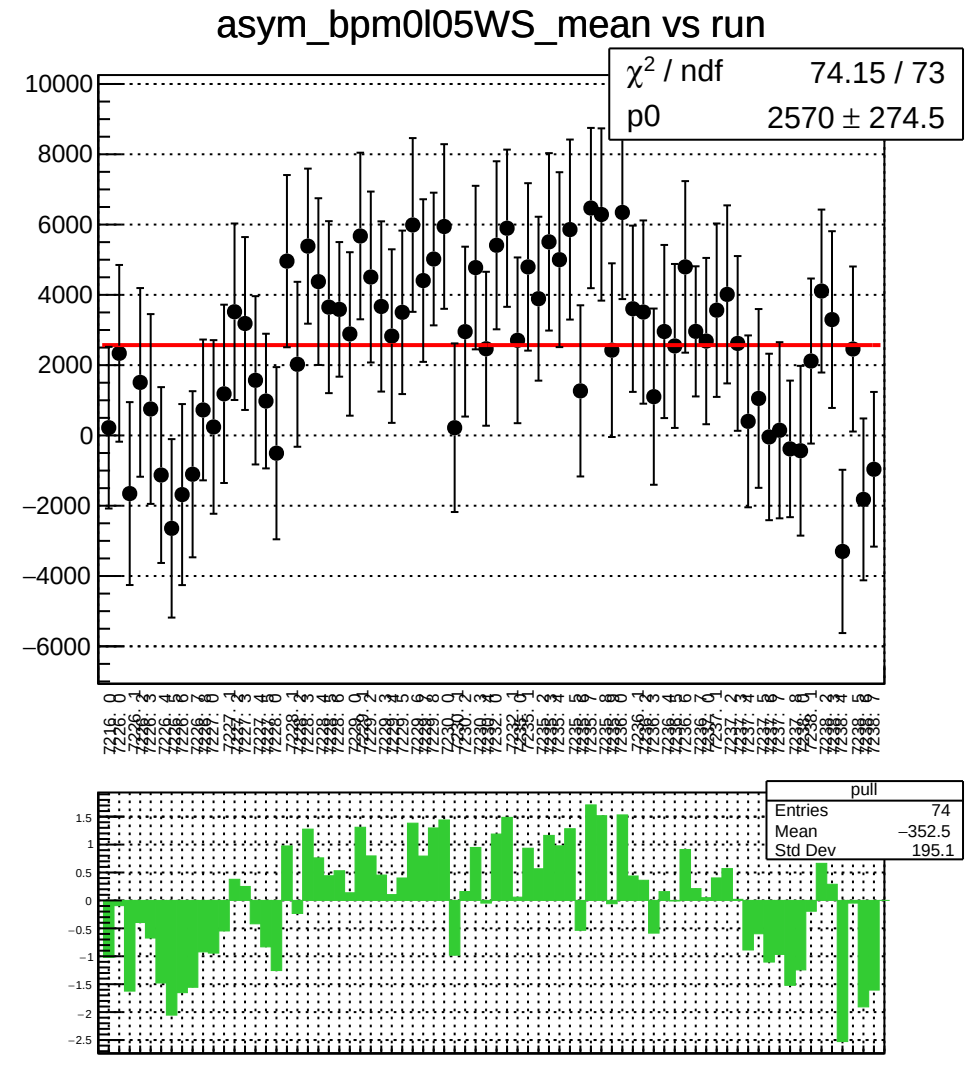

pull1D
Entries 74
Mean 0.01796
Std Dev 0.8665

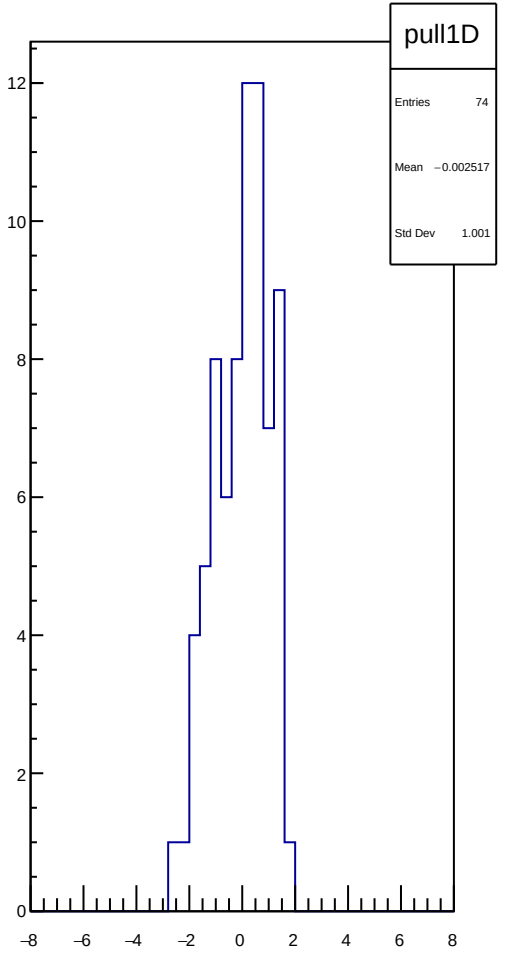

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.867e+04 / 73
p0 976.4 ± 0.8397
1600
1400
1200
1000
800
600

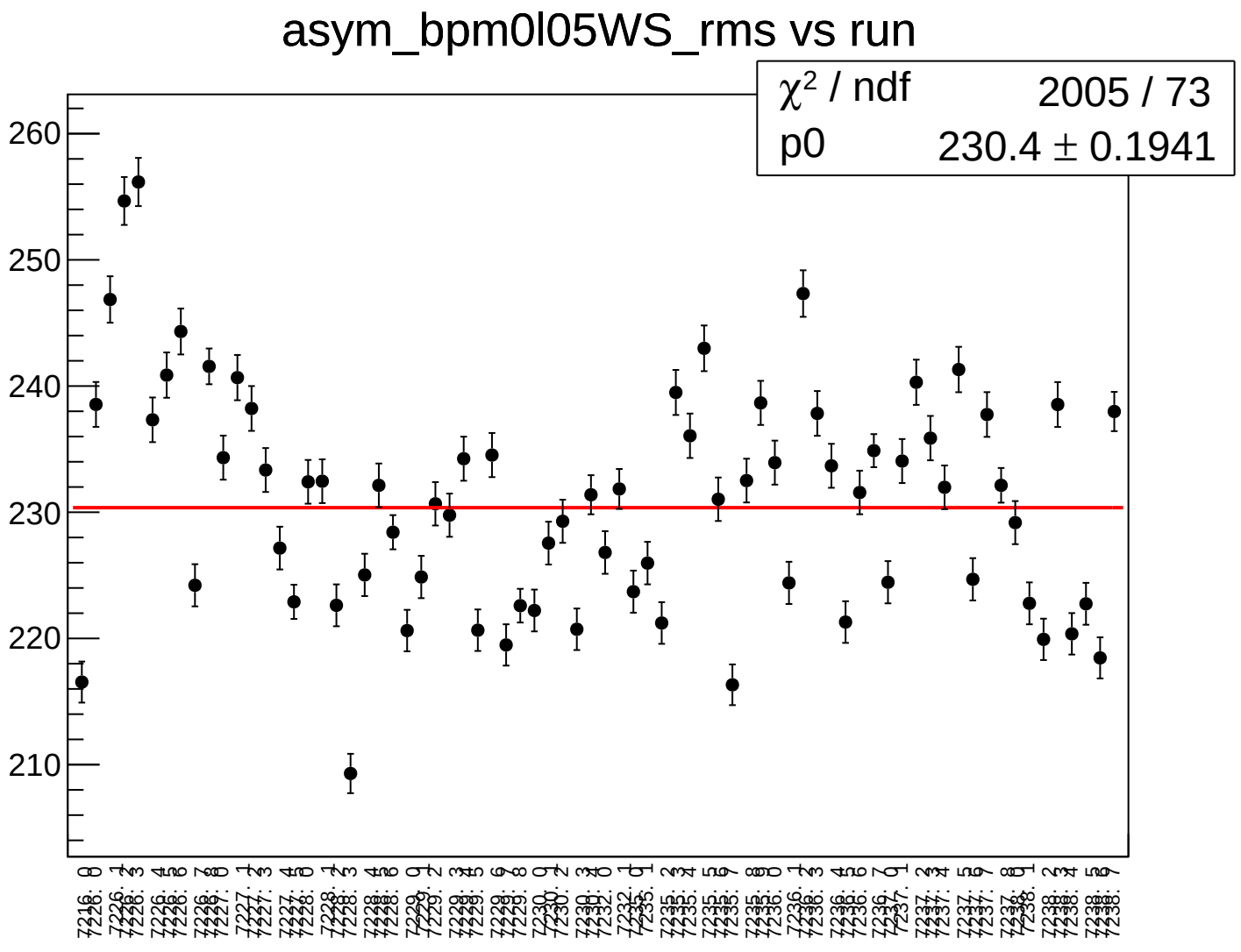

asym_bpm0l04WS_mean vs run
χ² / ndf 90.81 / 73
p0 2431 ± 274.8
pull
Entries 74
Mean −144.9
Std Dev 145.7

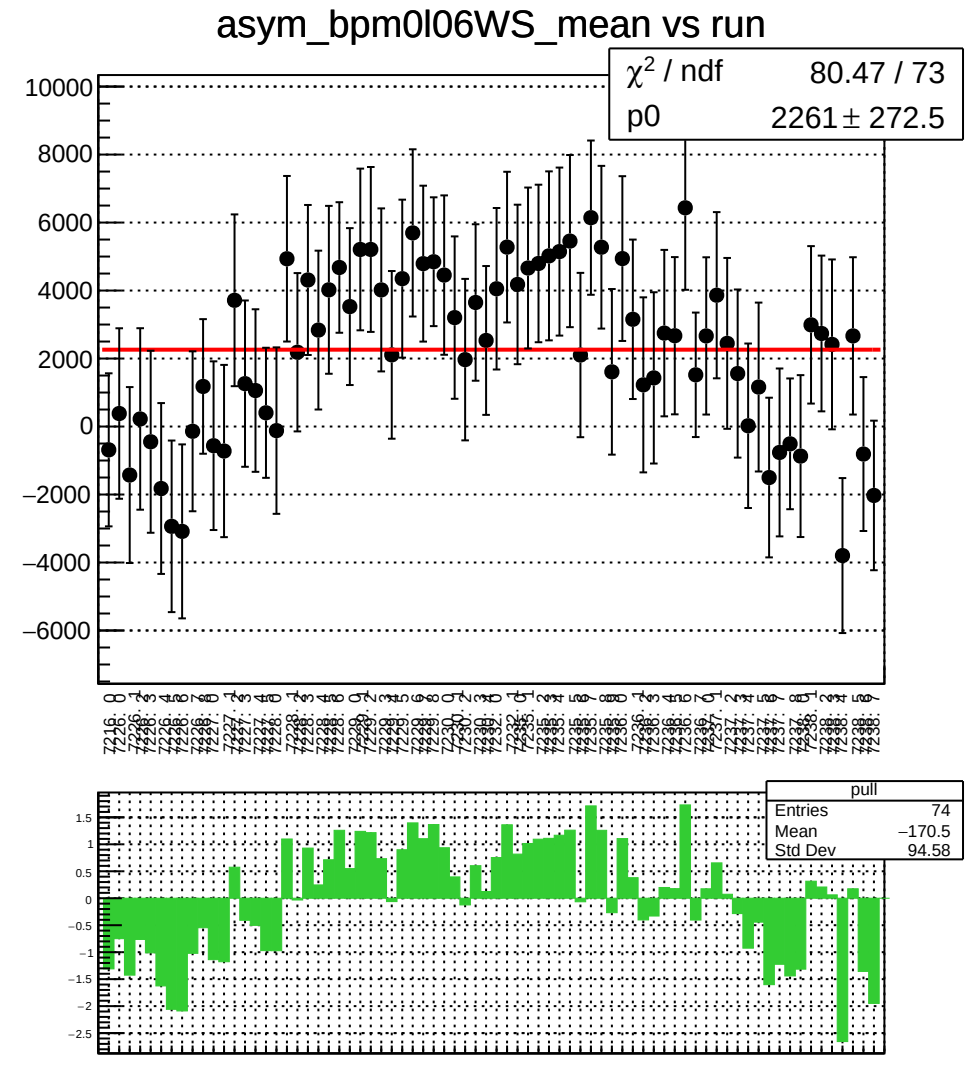

pull1D
Entries 74
Mean −0.006361
Std Dev 1.108

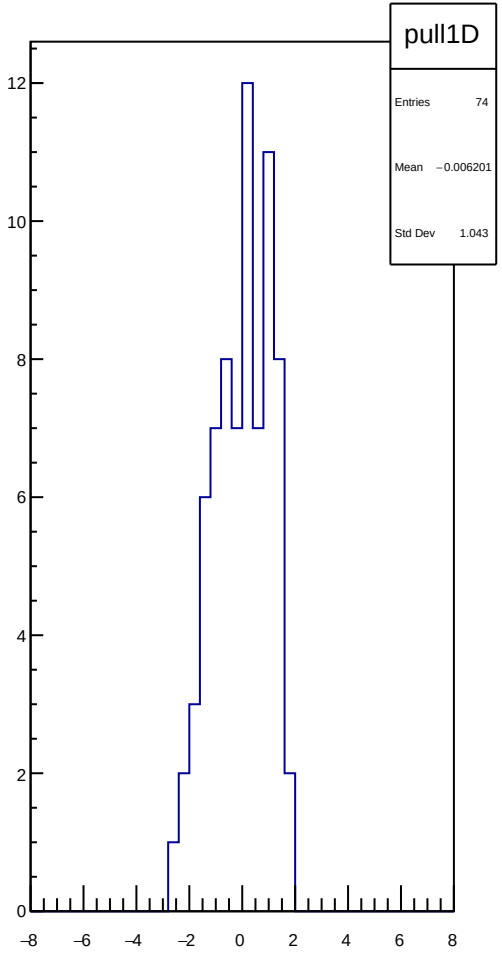

asym_bpm0l04WS_rms vs run
χ² / ndf 2328 / 73
p0 230.6 ± 0.1943
260
250
240
230
220
210

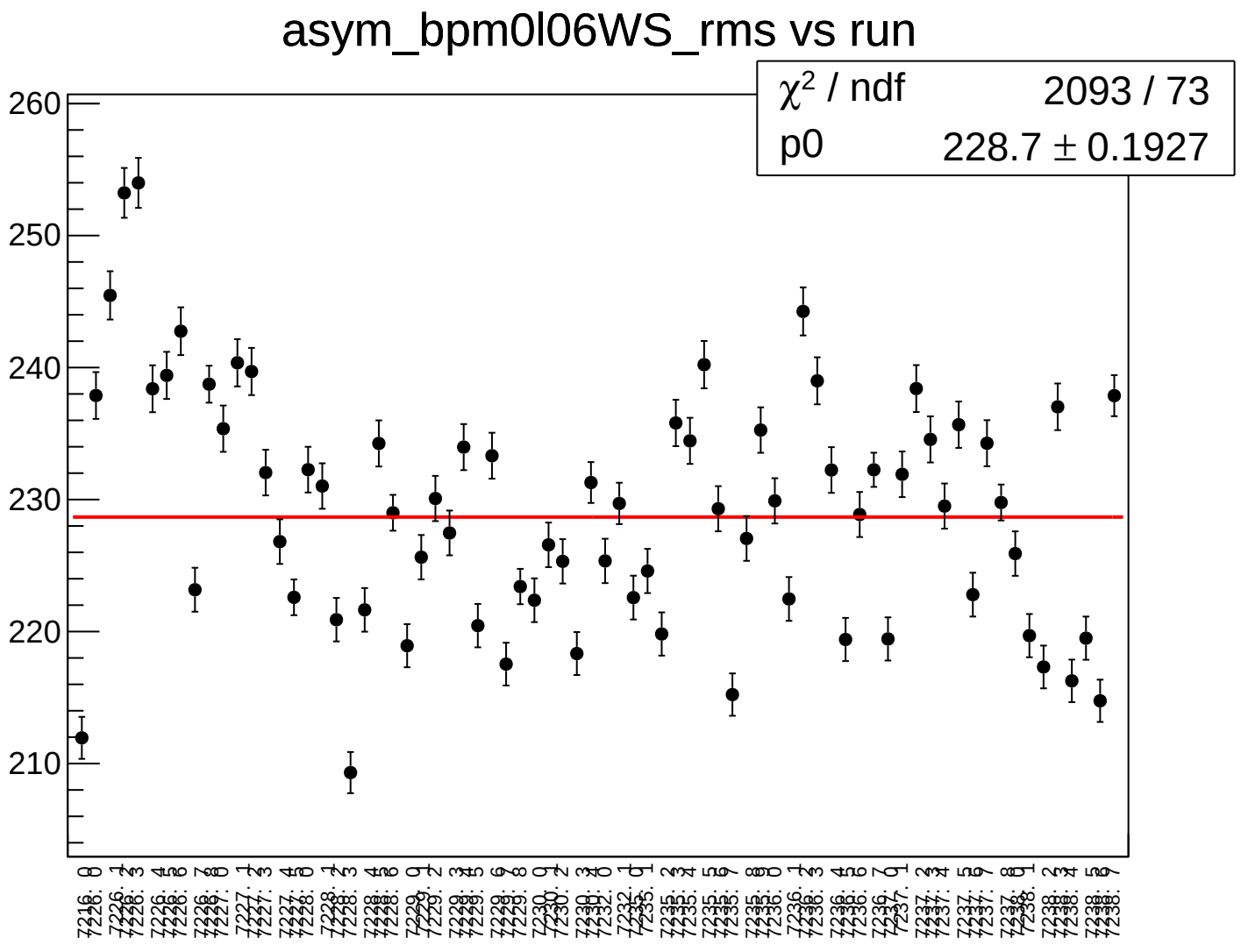

asym_bpm0l05WS_mean vs run
χ^2 / ndf 74.15 / 73
p0 2570 ± 274.5
pull
Entries 74
Mean −352.5
Std Dev 195.1

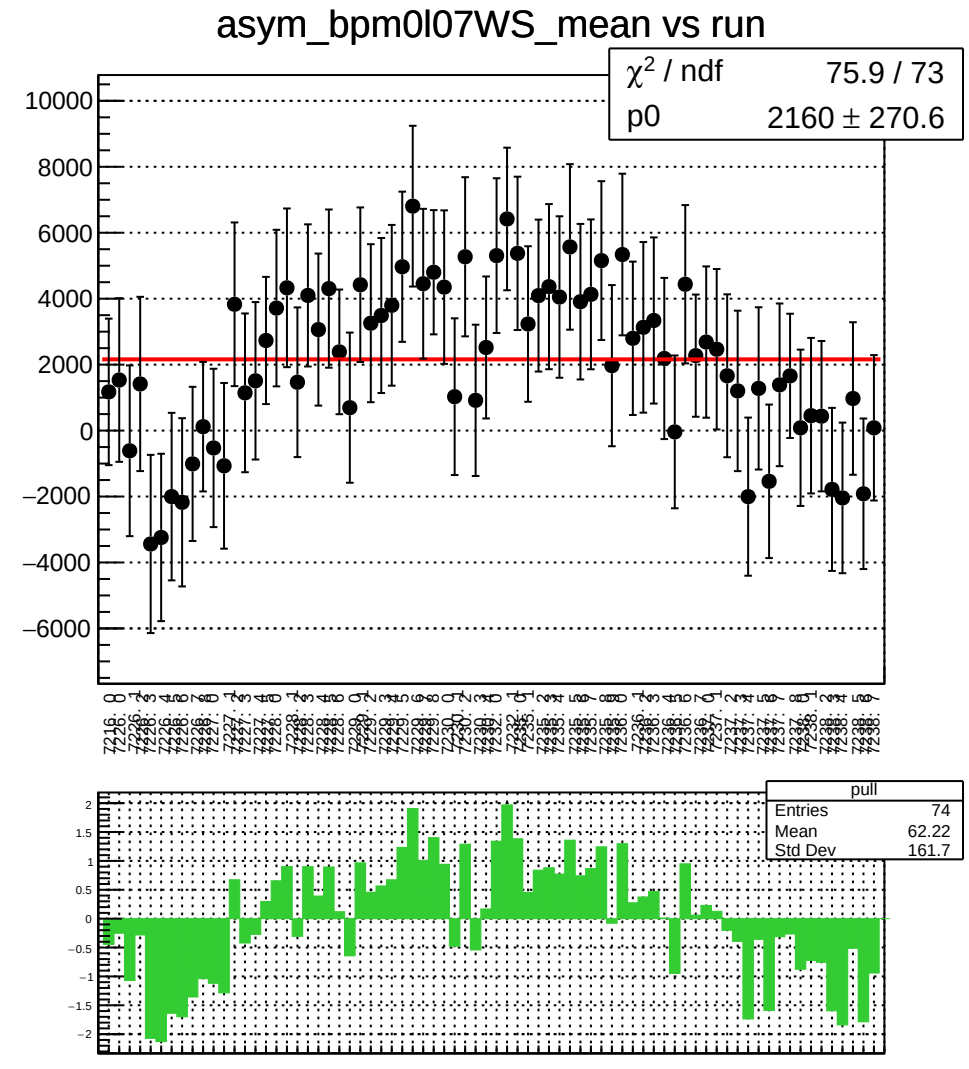

pull1D
Entries 74
Mean −0.002517
Std Dev 1.001

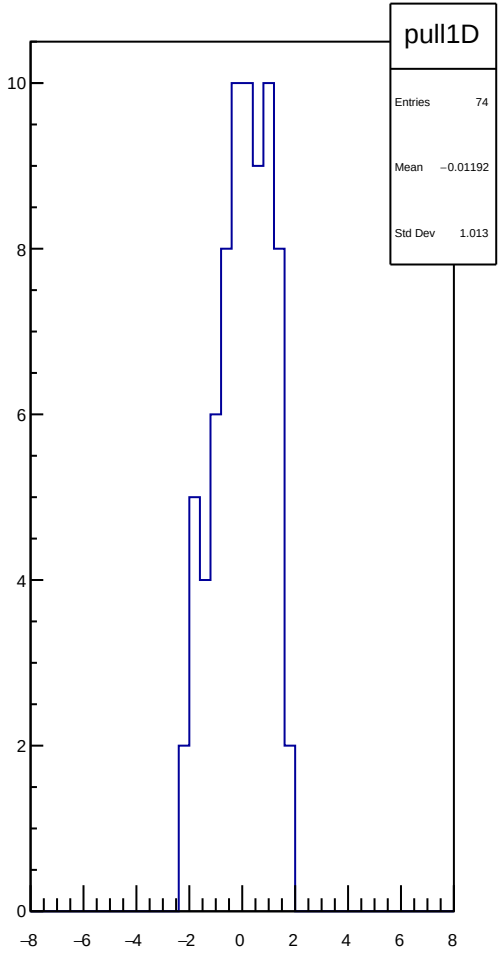

asym_bpm0l05WS_rms vs run
χ² / ndf 2005 / 73
p0 230.4 ± 0.1941
260
250
240
230
220
210

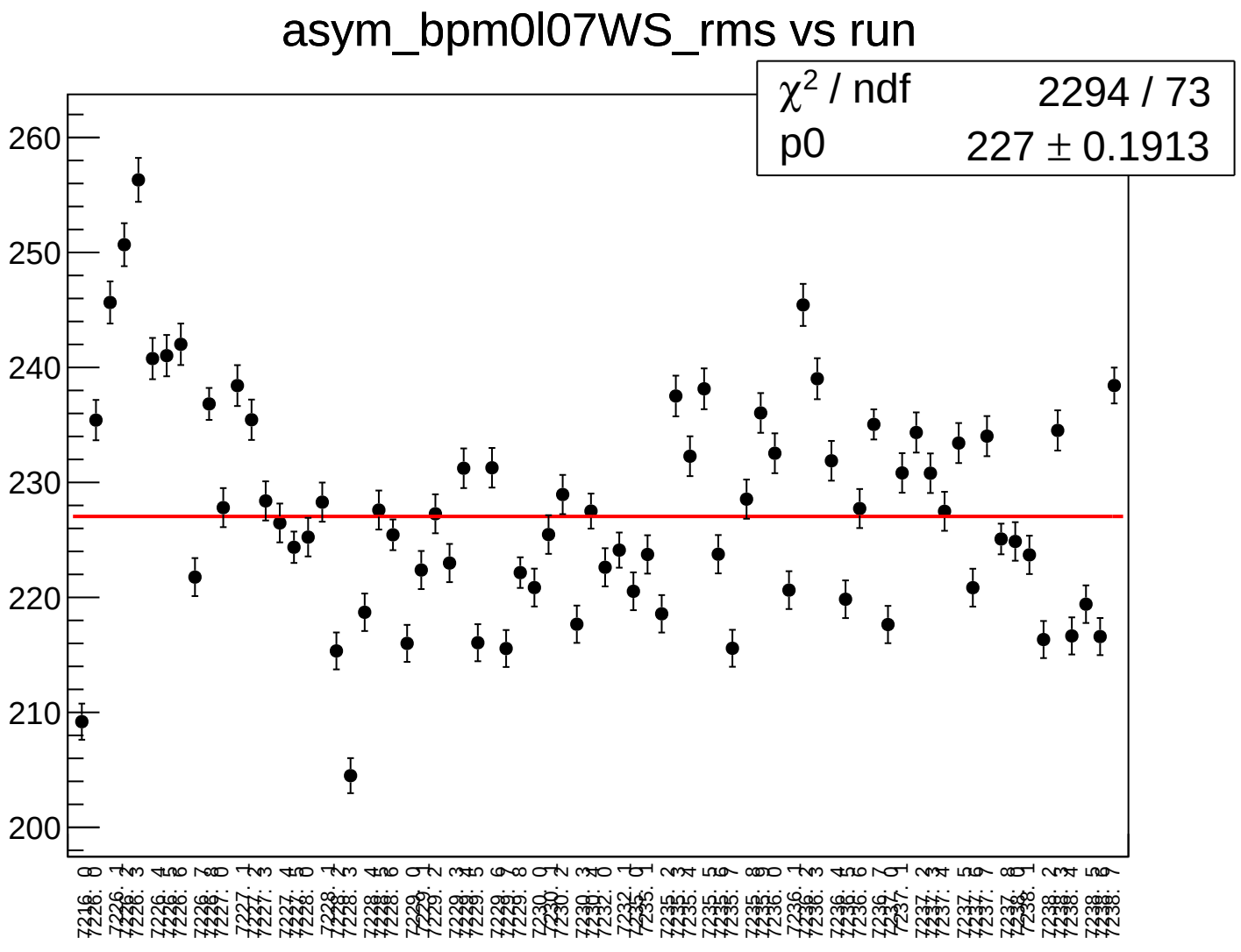

asym_bpm0l06WS_mean vs run
χ² / ndf 80.47 / 73
p0 2261 ± 272.5
pull
Entries 74
Mean −170.5
Std Dev 94.58

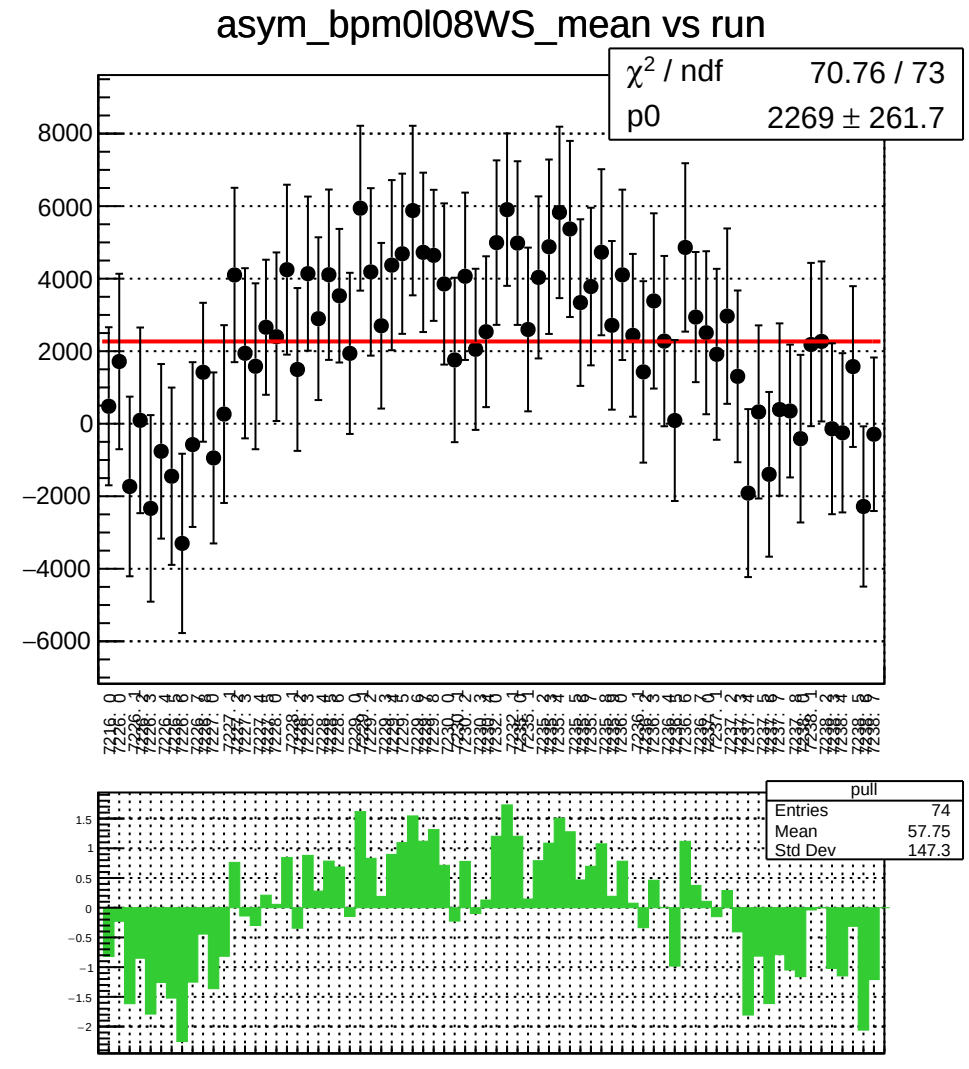

pull1D
Entries 74
Mean −0.006201
Std Dev 1.043

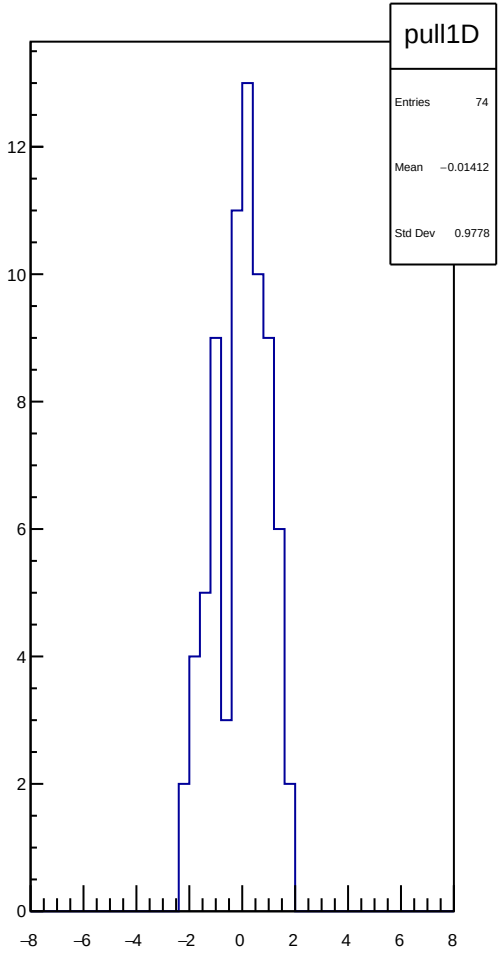

asym_bpm0l06WS_rms vs run
χ² / ndf 2093 / 73
p0 228.7 ± 0.1927
260
250
240
230
220
210

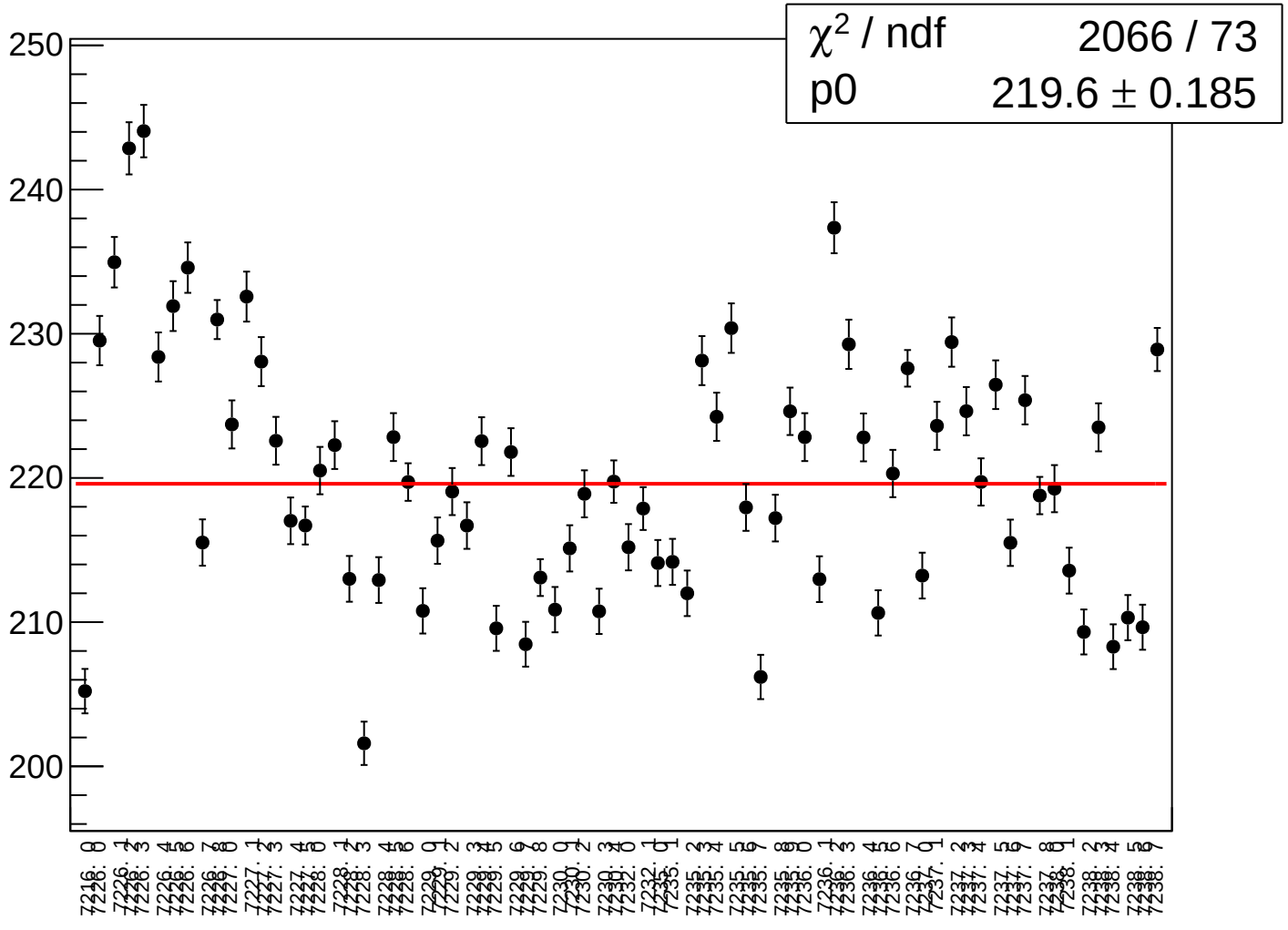

asym_bpm0l07WS_mean vs run
χ^2 / ndf 75.9 / 73
p0 2160 ± 270.6
pull
Entries 74
Mean 62.22
Std Dev 161.7

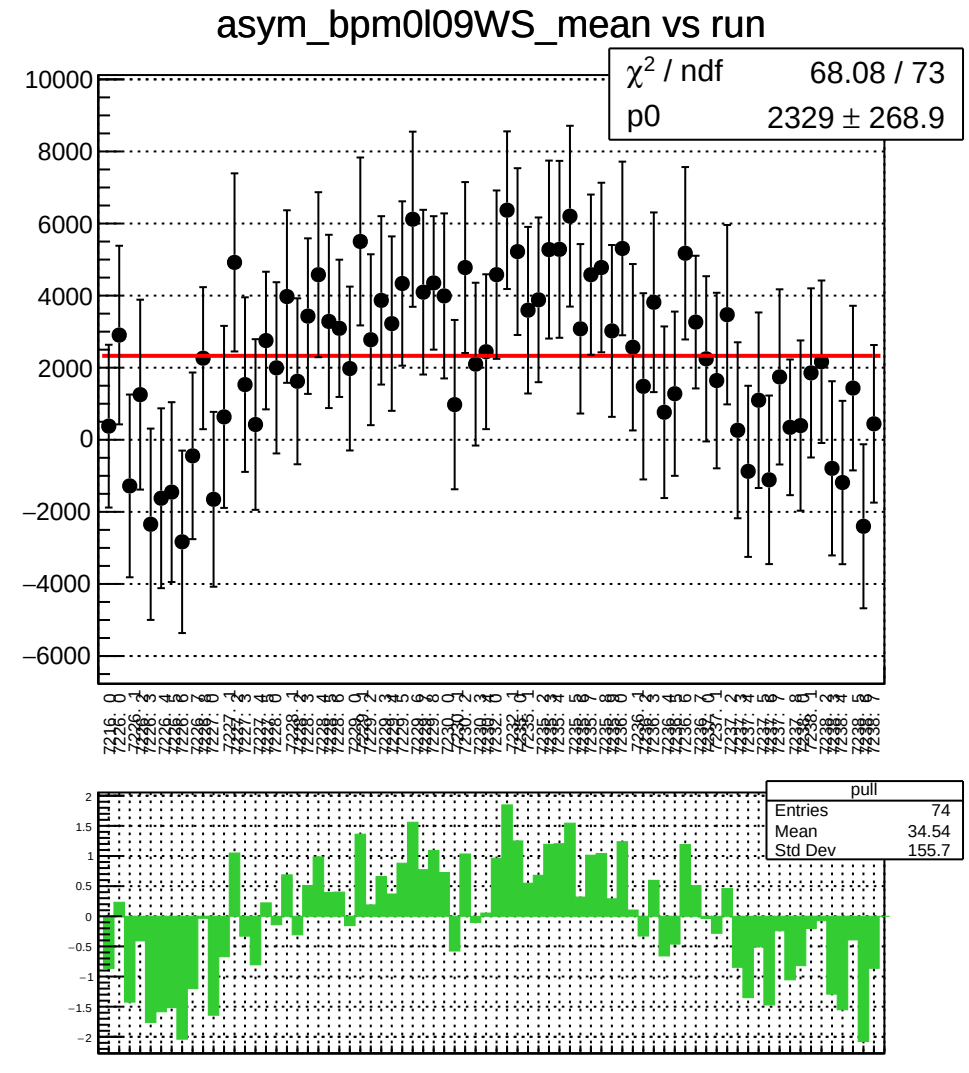

pull1D
Entries 74
Mean −0.01192
Std Dev 1.013

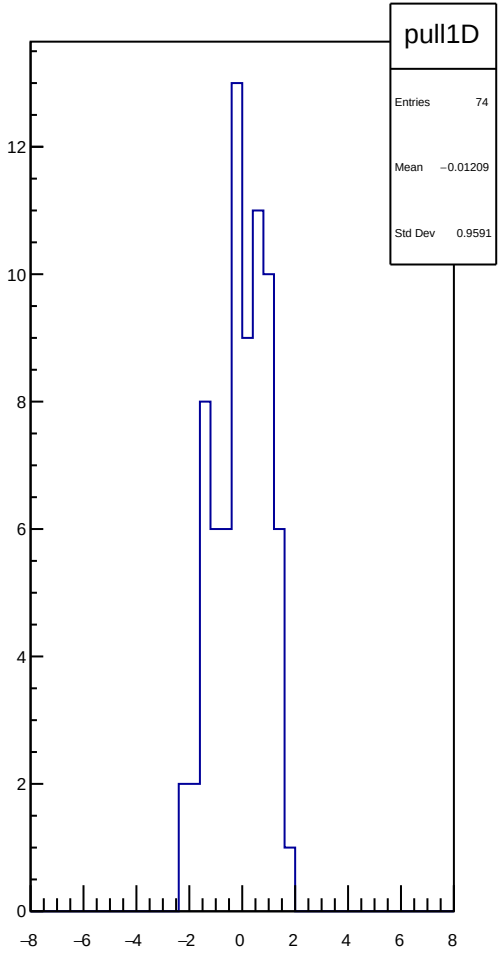

asym_bpm0l07WS_rms vs run
χ² / ndf 2294 / 73
p0 227 ± 0.1913
260
250
240
230
220
210
200

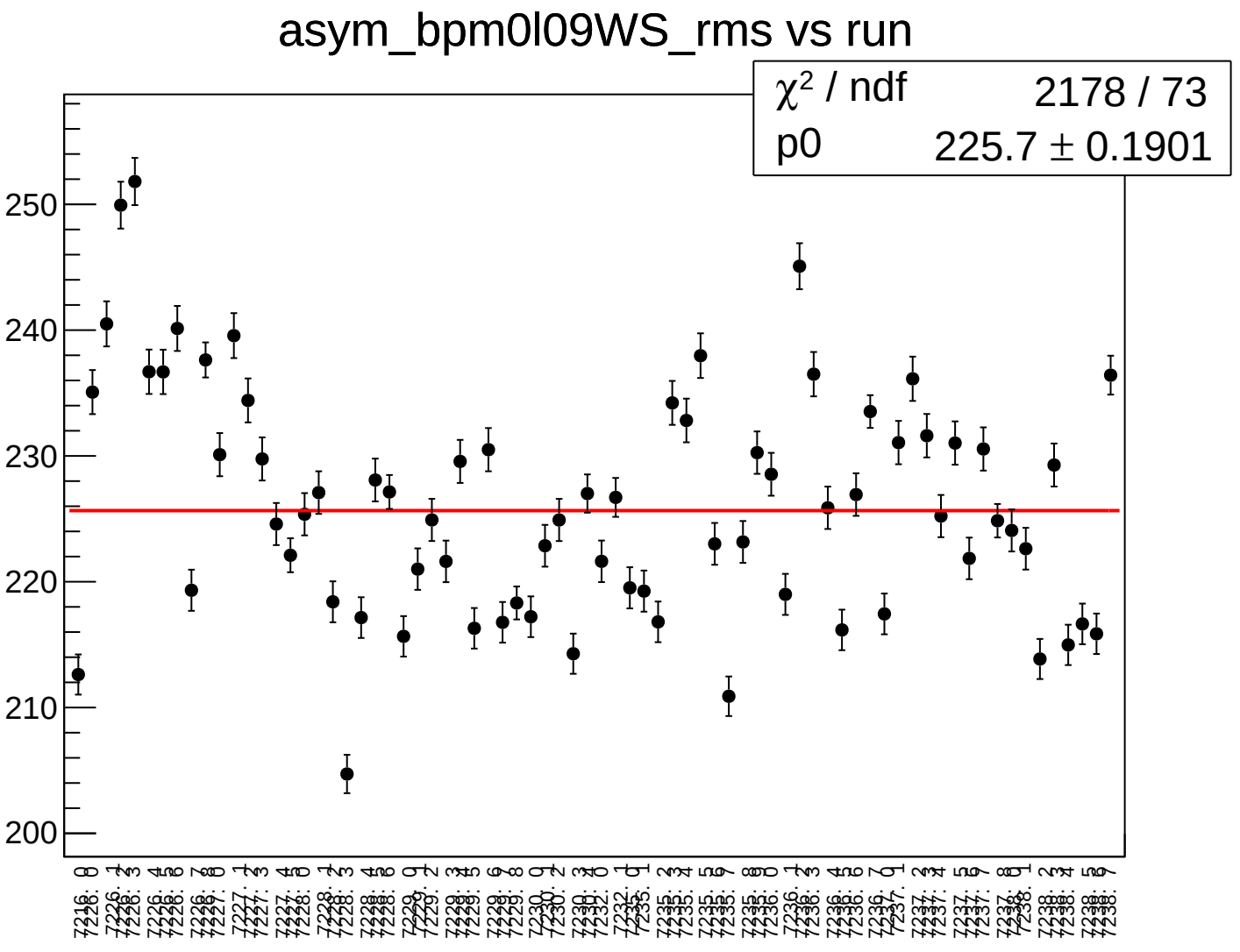

asym_bpm0l08WS_mean vs run
χ² / ndf 70.76 / 73
p0 2269 ± 261.7
pull
Entries 74
Mean 57.75
Std Dev 147.3

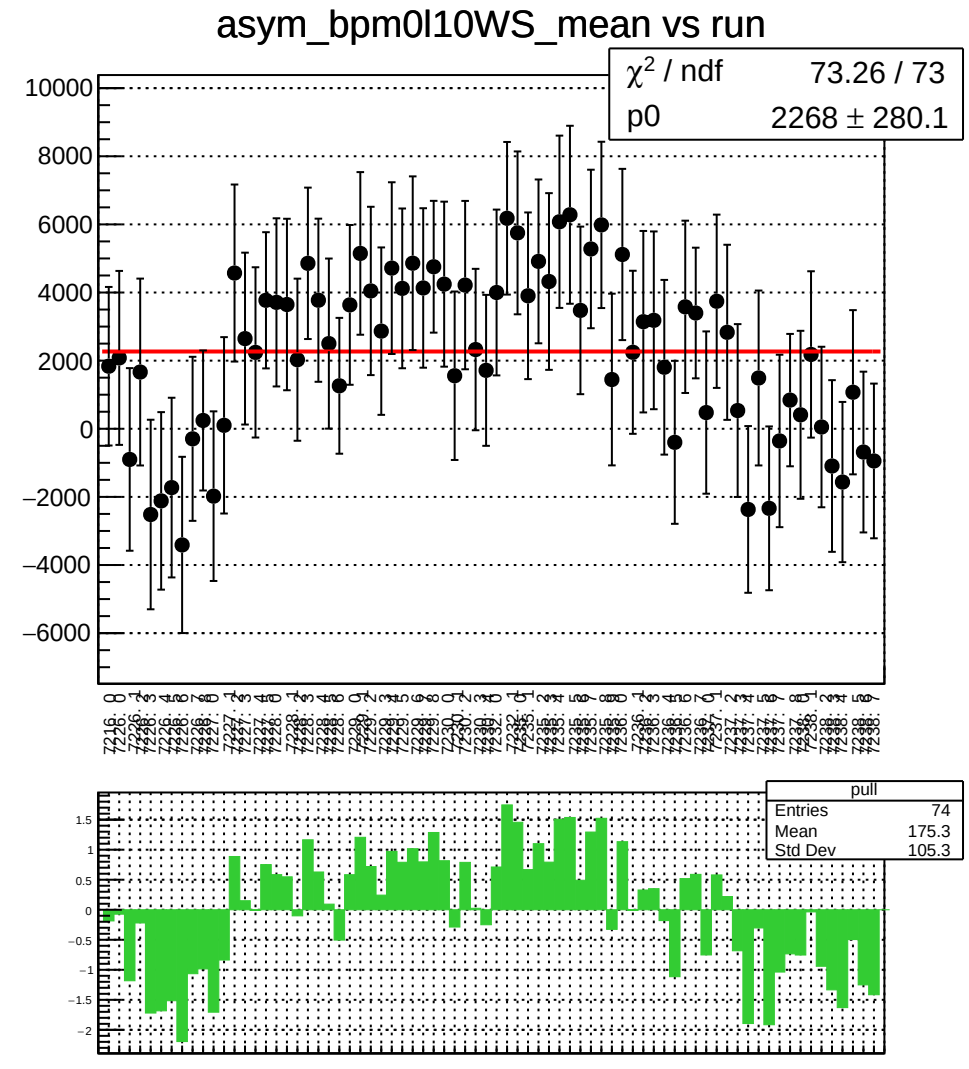

pull1D
Entries 74
Mean −0.01412
Std Dev 0.9778

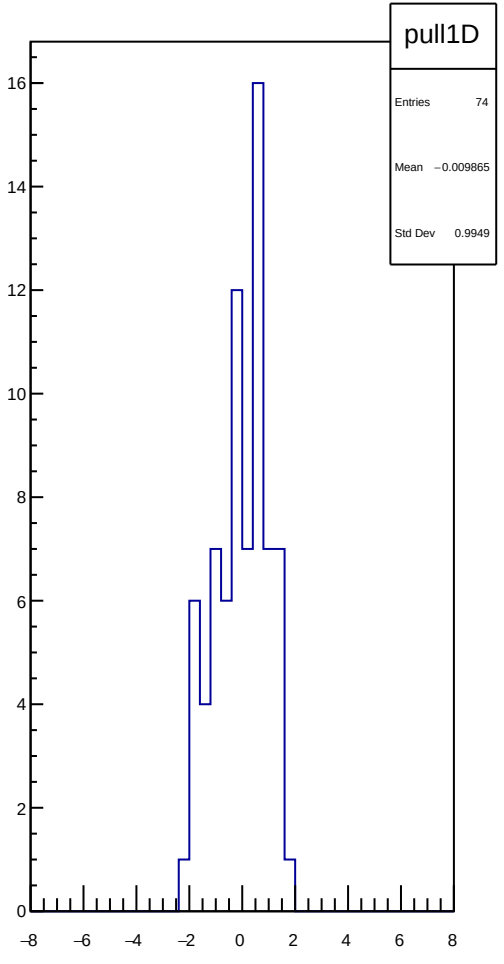

asym_bpm0l08WS_rms vs run
χ² / ndf 2066 / 73
p0 219.6 ± 0.185
250
240
230
220
210
200

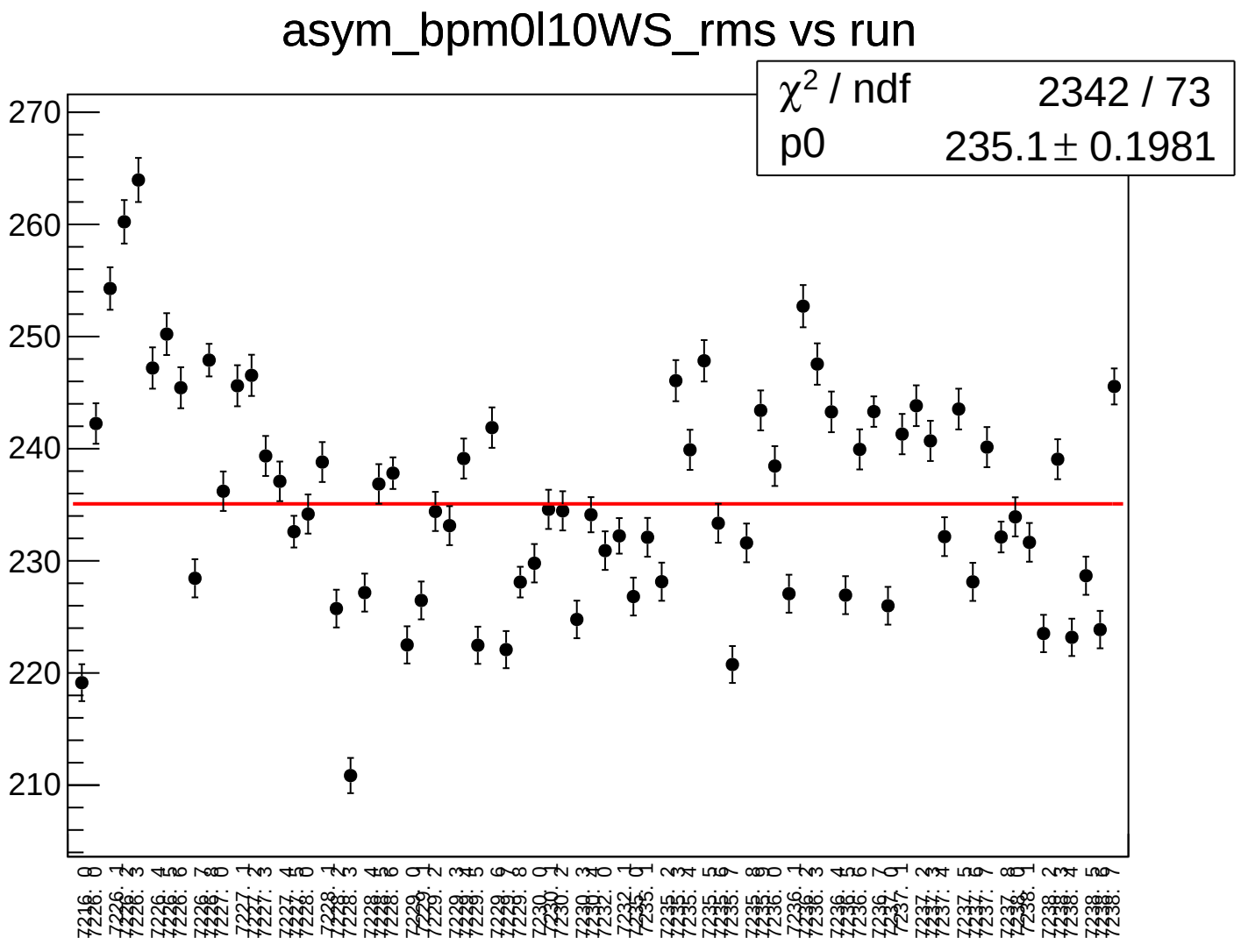

asym_bpm0l09WS_mean vs run
χ^2 / ndf 68.08 / 73
p0 2329 ± 268.9
pull
Entries 74
Mean 34.54
Std Dev 155.7

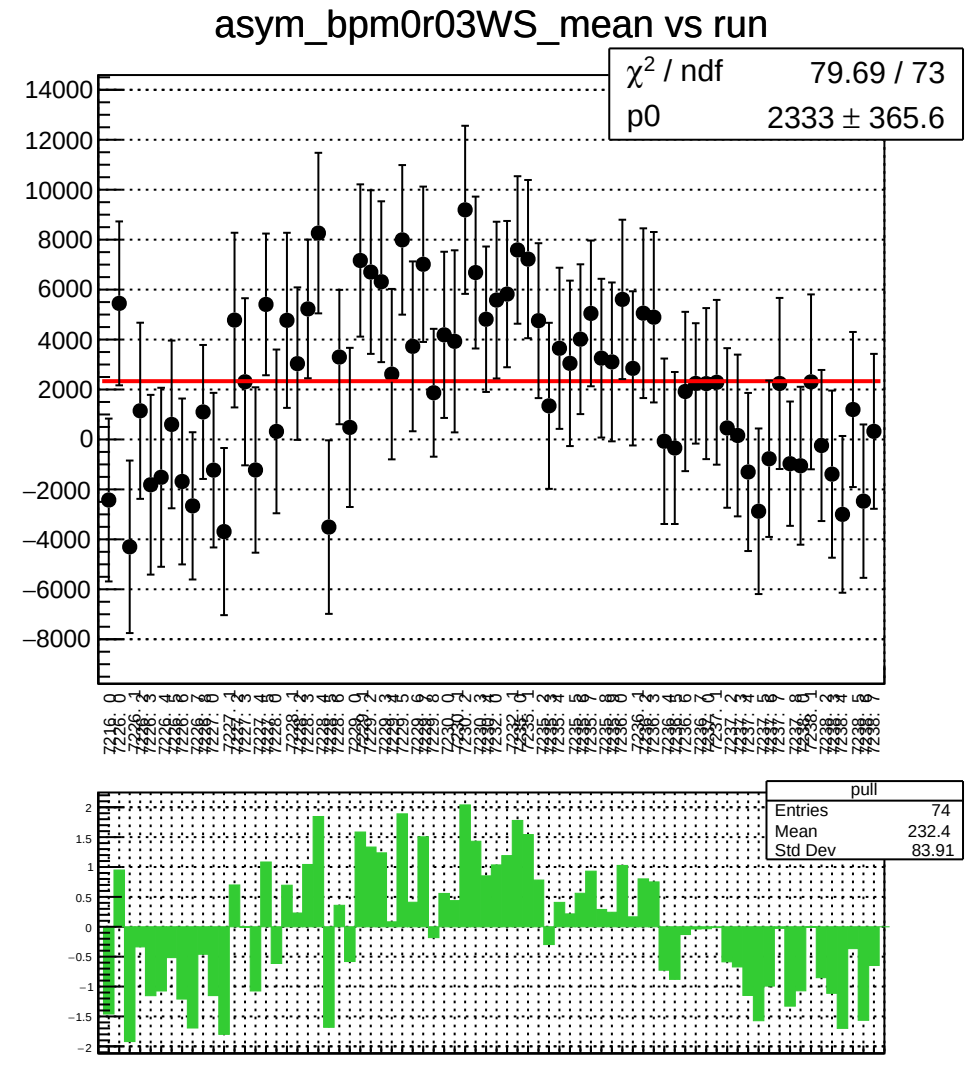

pull1D
Entries 74
Mean −0.01209
Std Dev 0.9591

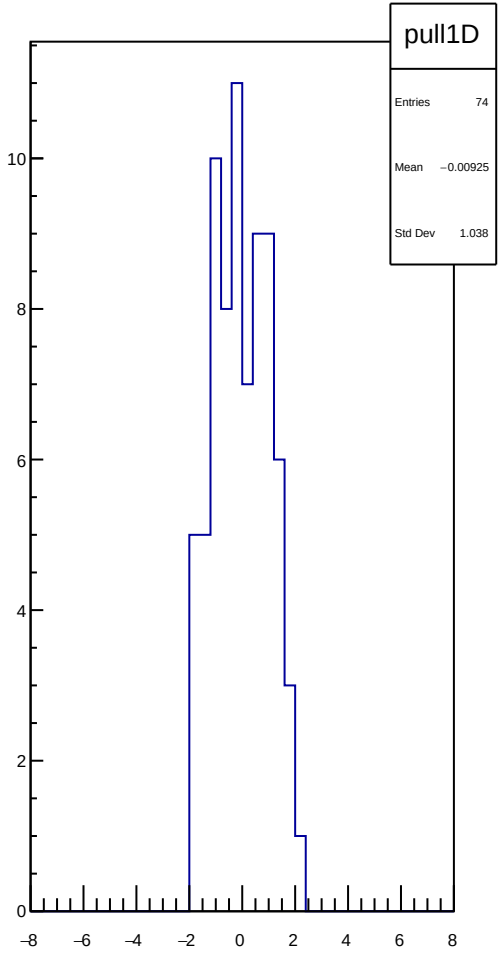

asym_bpm0l09WS_rms vs run
χ² / ndf 2178 / 73
p0 225.7 ± 0.1901
250
240
230
220
210
200

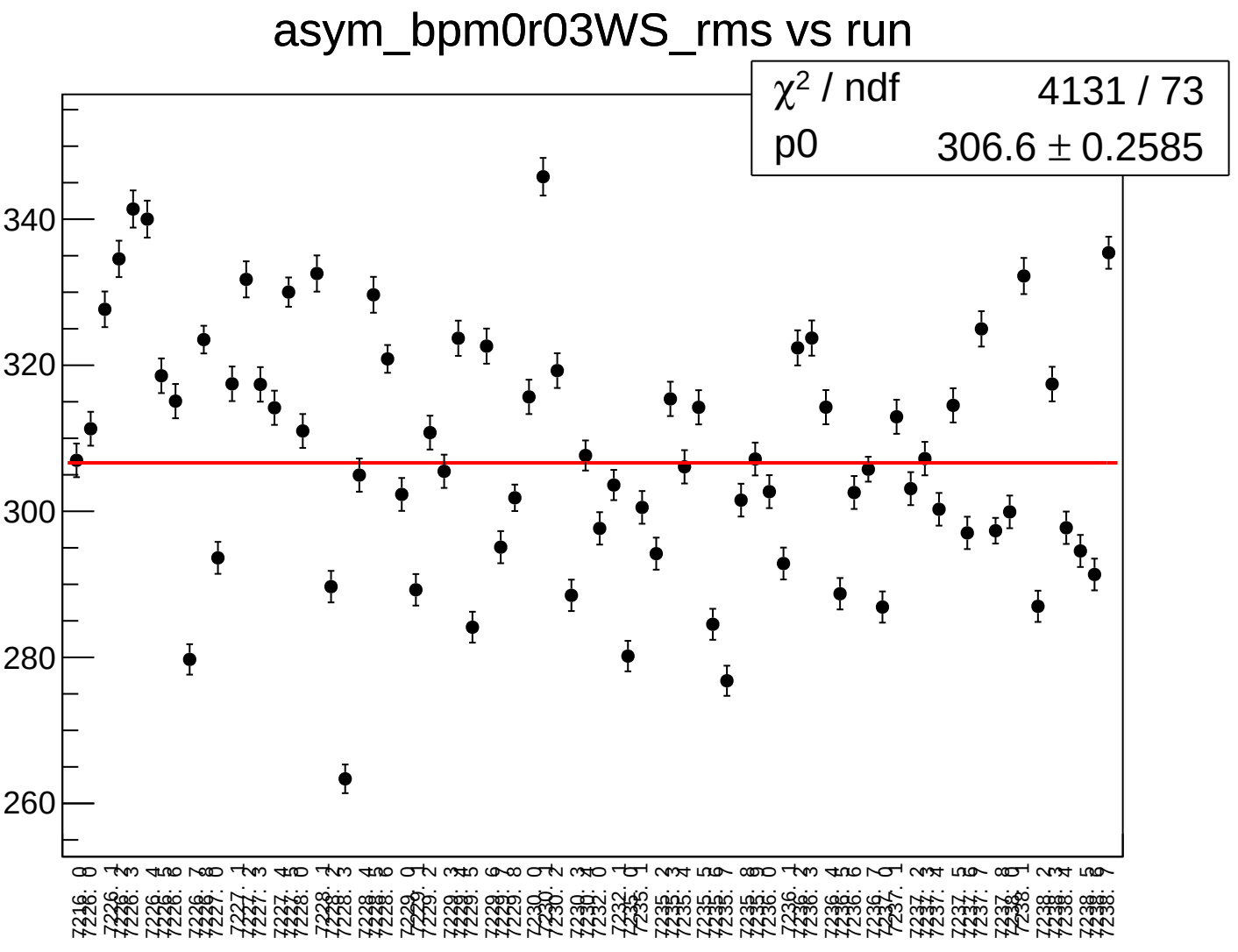

asym_bpm0l10WS_mean vs run
χ² / ndf 73.26 / 73
p0 2268 ± 280.1
pull
Entries 74
Mean 175.3
Std Dev 105.3

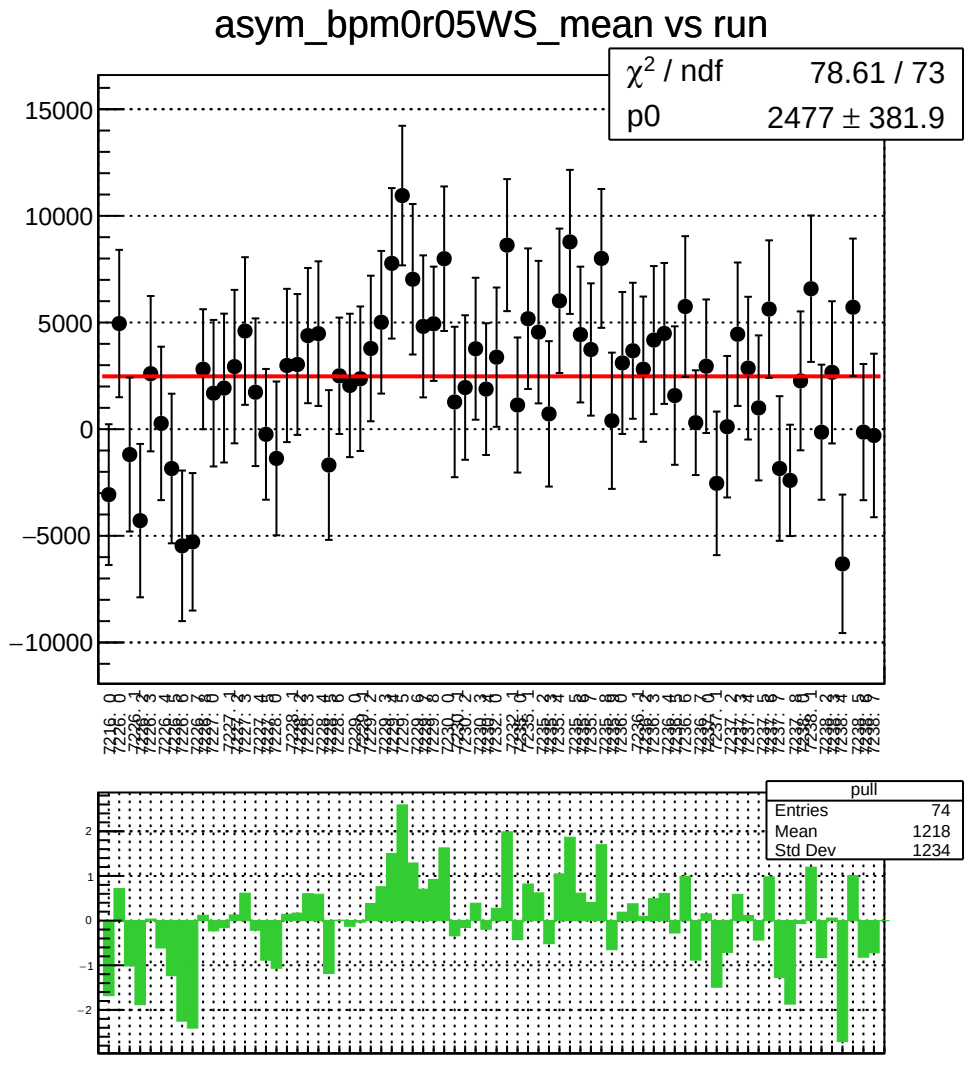

pull1D
Entries 74
Mean −0.009865
Std Dev 0.9949

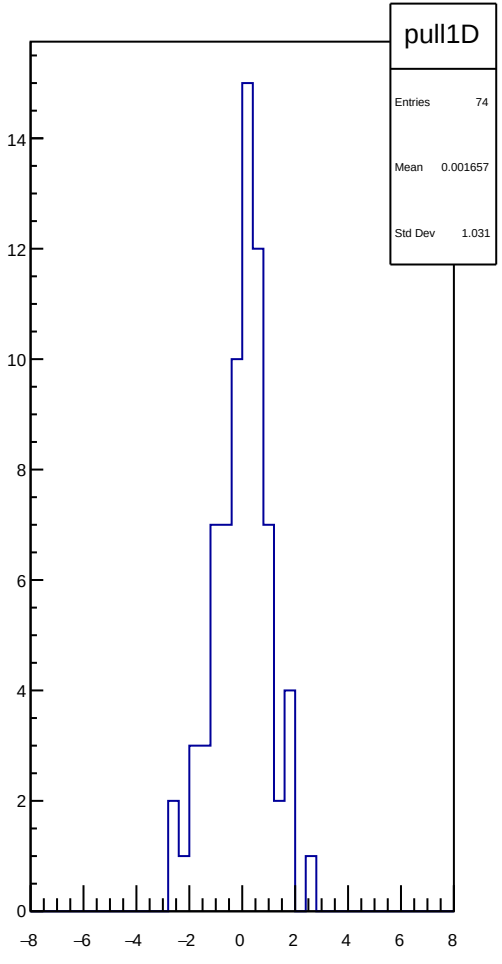

asym_bpm0l10WS_rms vs run
χ² / ndf 2342 / 73
p0 235.1 ± 0.1981
270
260
250
240
230
220
210

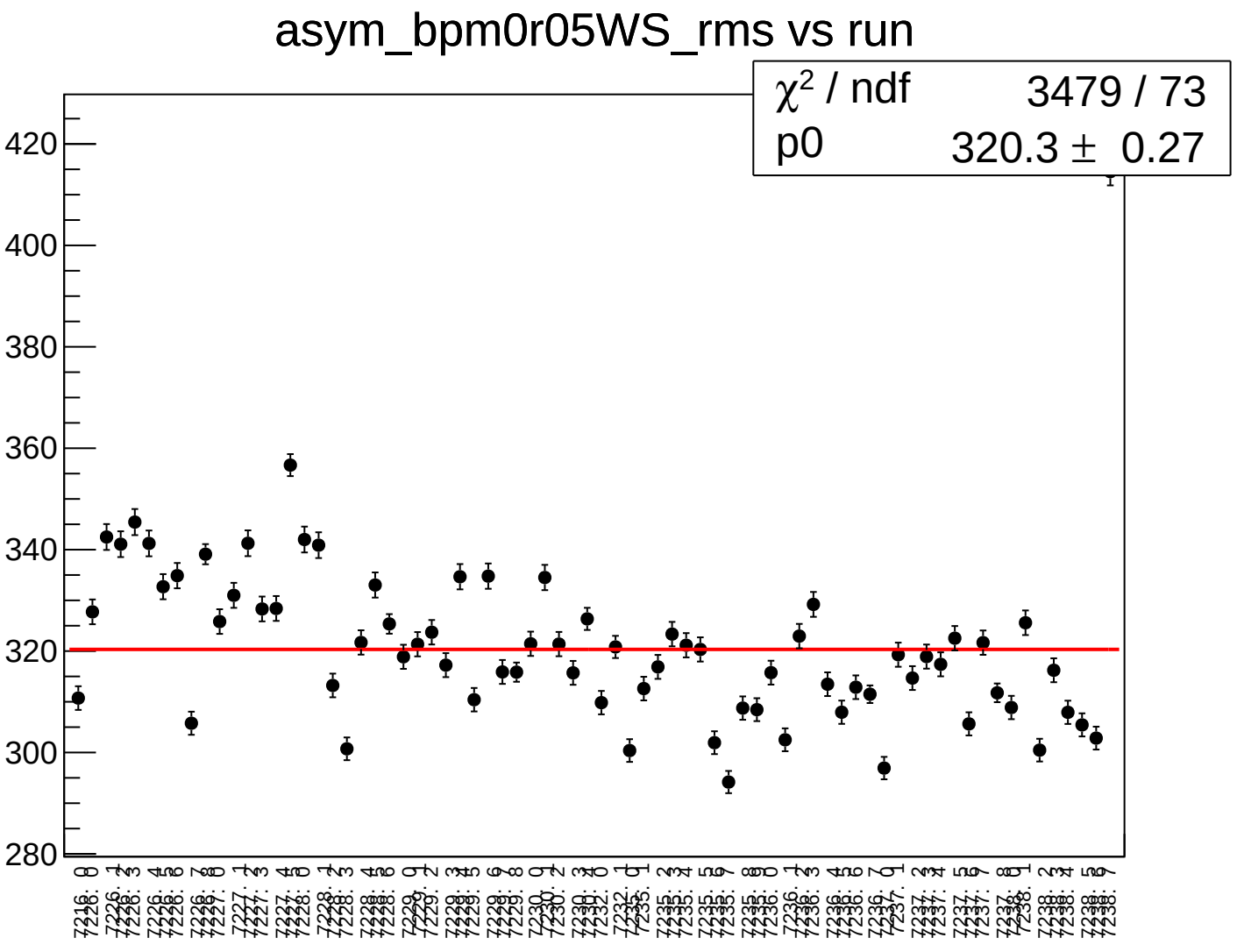

asym_bpm0r03WS_mean vs run
χ² / ndf 79.69 / 73
p0 2333 ± 365.6
pull
Entries 74
Mean 232.4
Std Dev 83.91

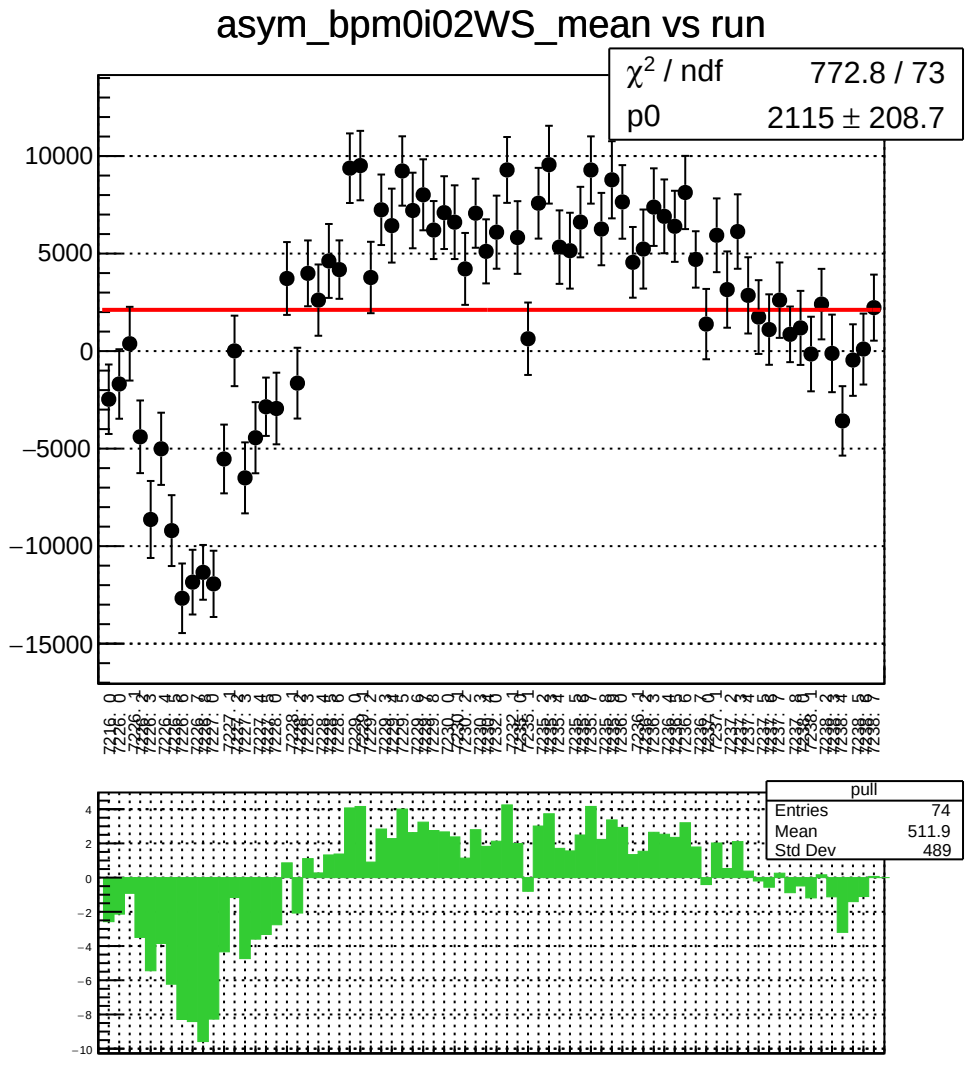

pull1D
Entries 74
Mean −0.00925
Std Dev 1.038

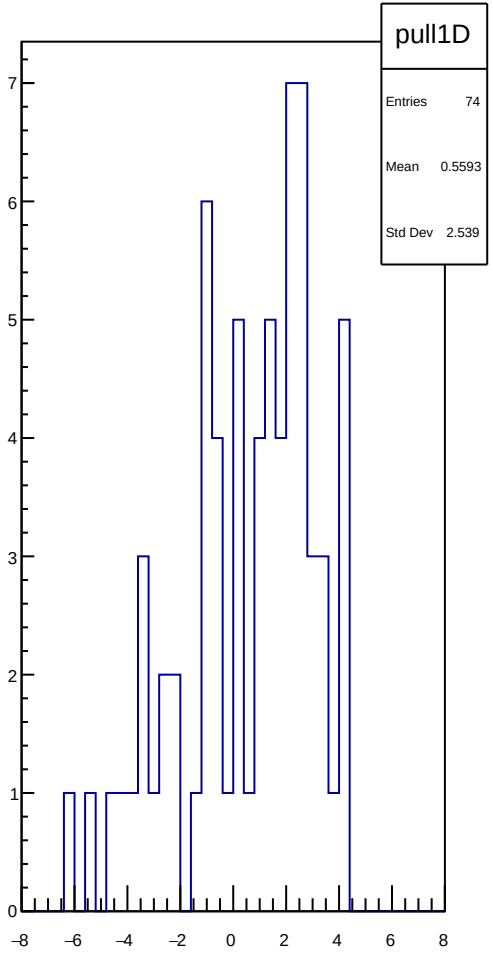

asym_bpm0r03WS_rms vs run
χ² / ndf 4131 / 73
p0 306.6 ± 0.2585
340
320
300
280
260

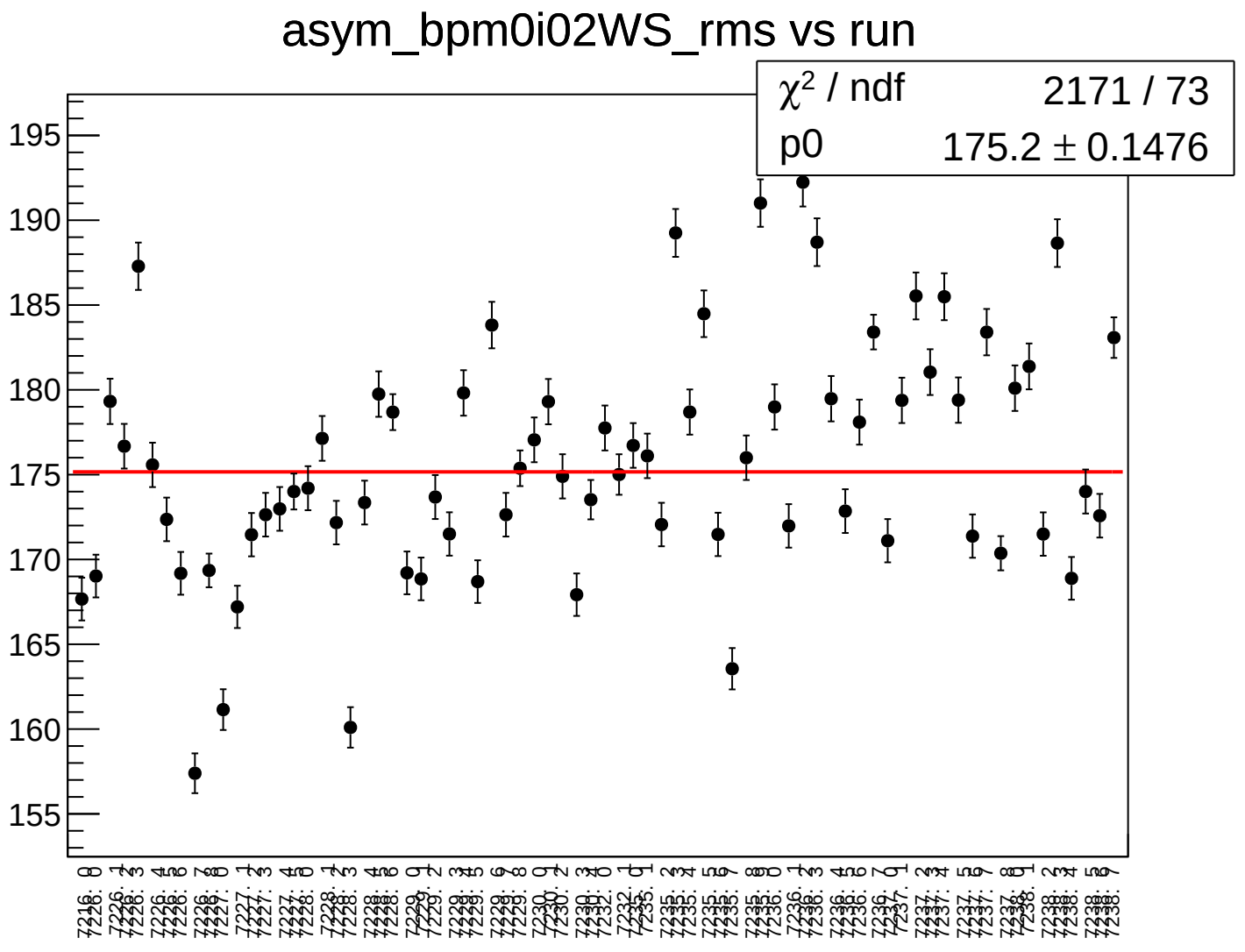

asym_bpm0r05WS_mean vs run
χ² / ndf 78.61 / 73
p0 2477 ± 381.9
15000
10000
5000
0
−5000
−10000
pull
Entries 74
Mean 1218
Std Dev 1234
2
1
0
−1
−2

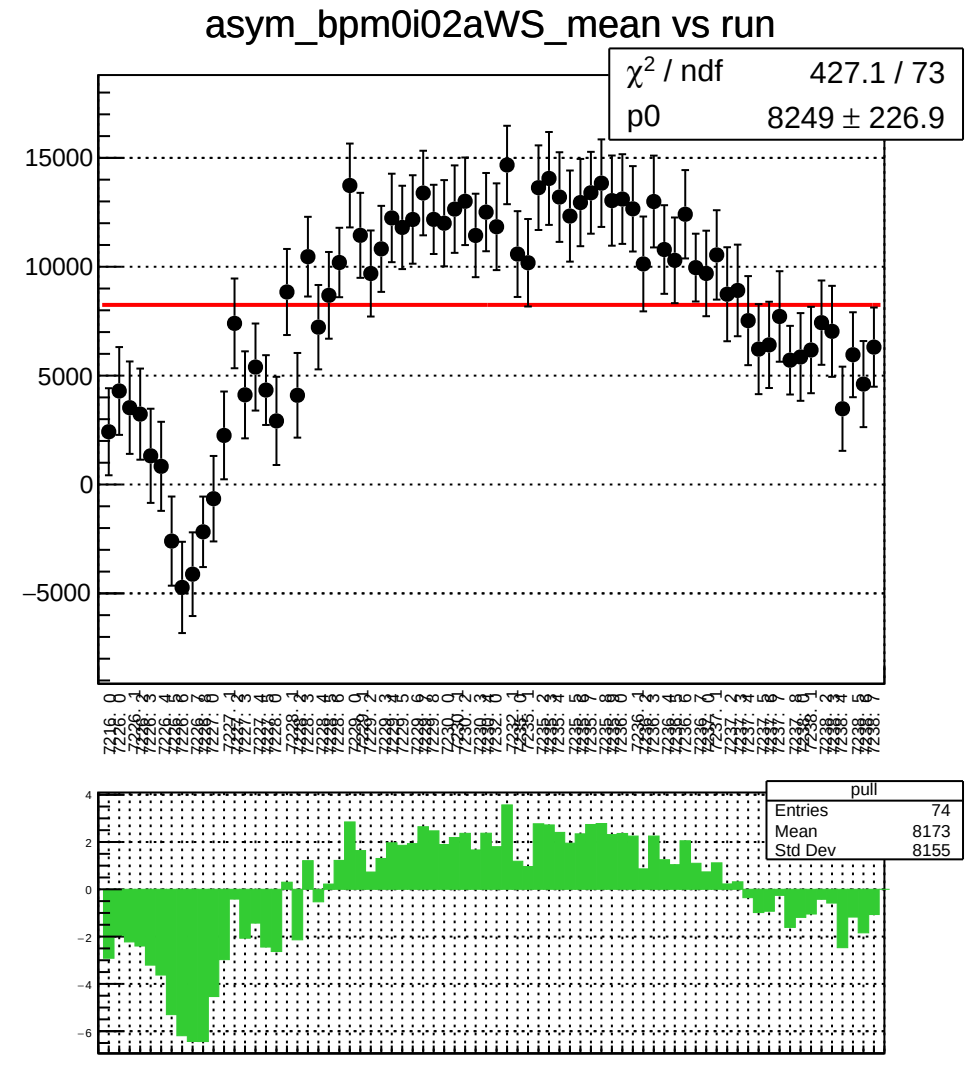

pull1D
Entries 74
Mean 0.001657
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

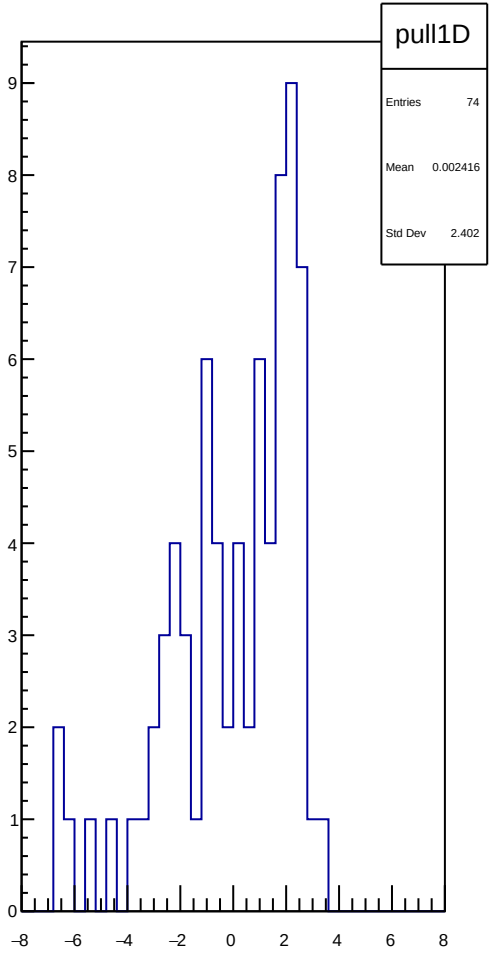

asym_bpm0r05WS_rms vs run
χ² / ndf 3479 / 73
p0 320.3 ± 0.27
420
400
380
360
340
320
300
280

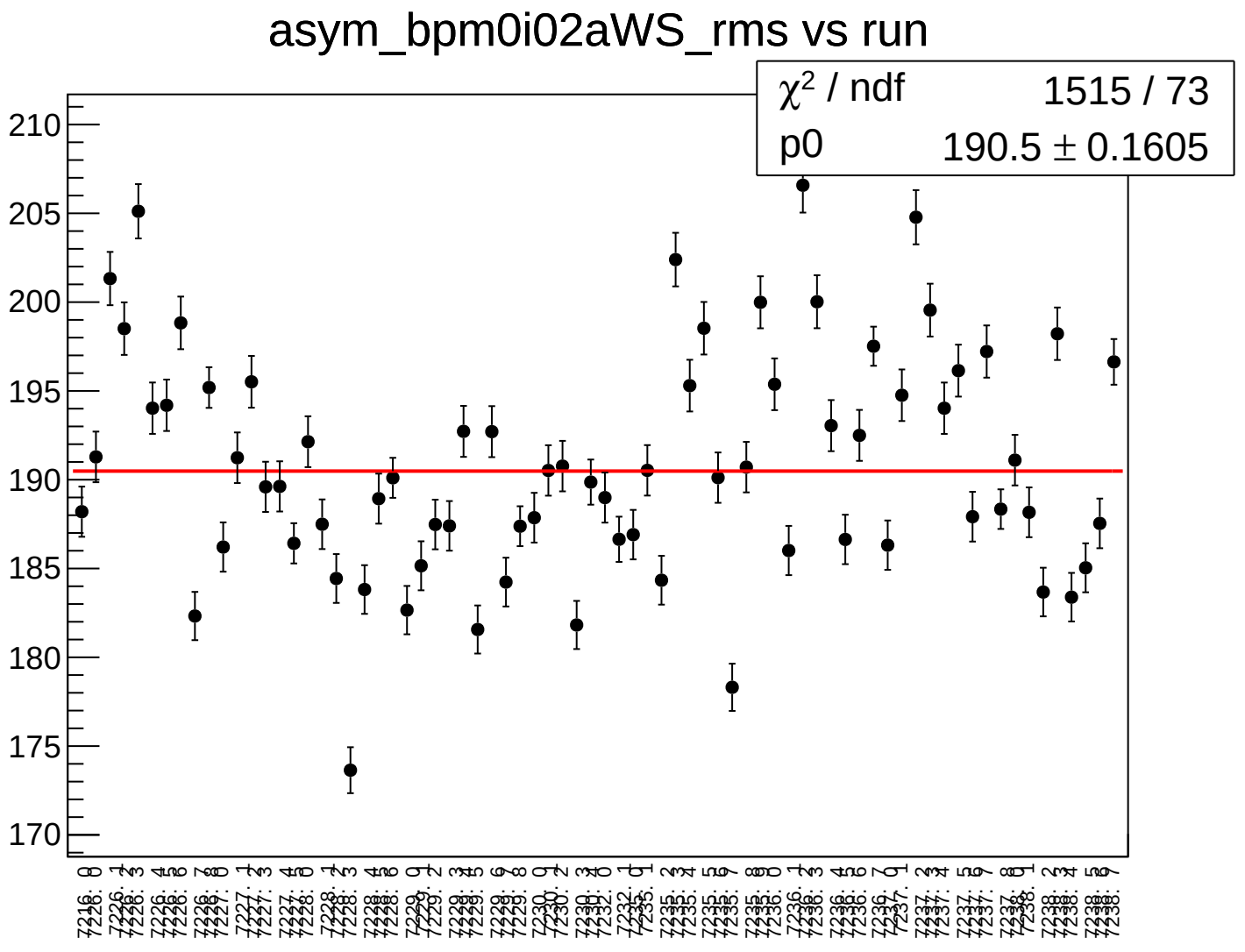

asym_bpm0i02WS_mean vs run
χ^2 / ndf 772.8 / 73
p0 2115 ± 208.7
pull
Entries 74
Mean 511.9
Std Dev 489

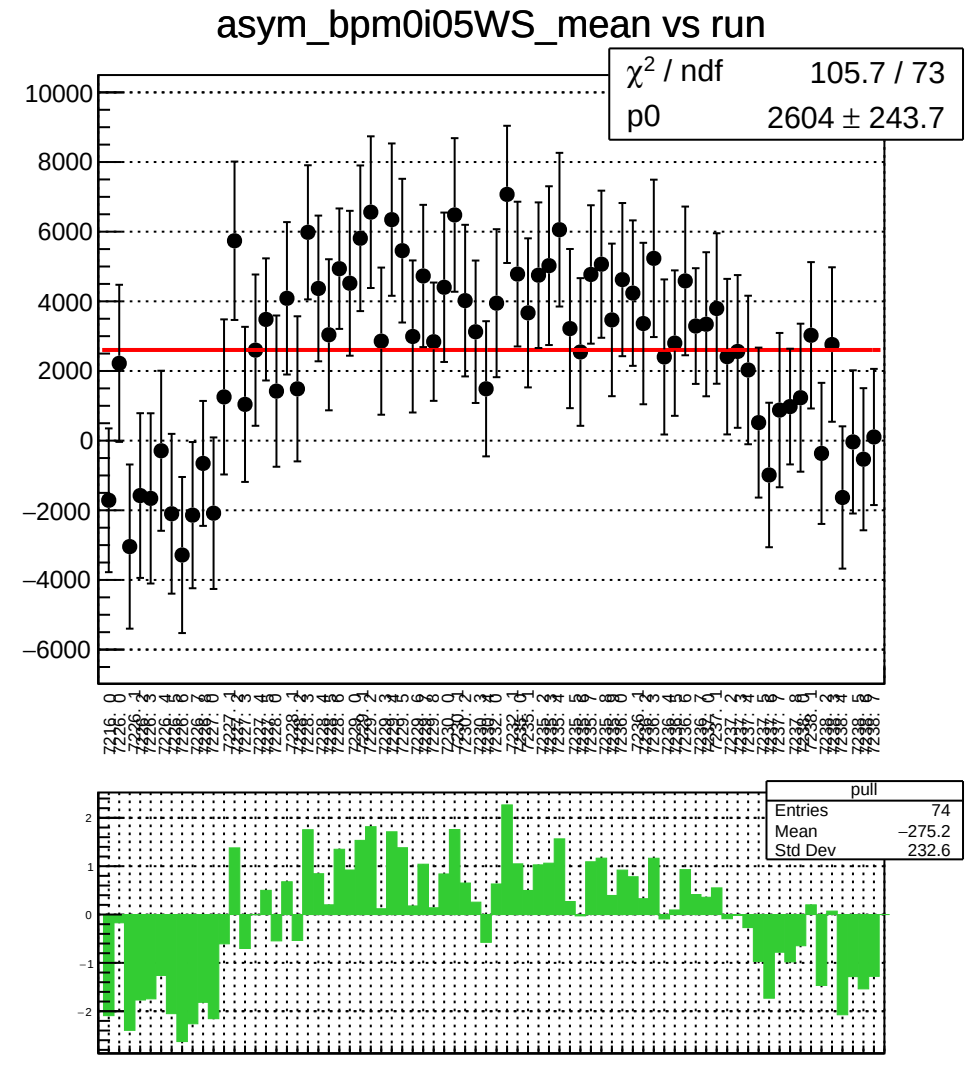

pull1D
Entries 74
Mean 0.5593
Std Dev 2.539

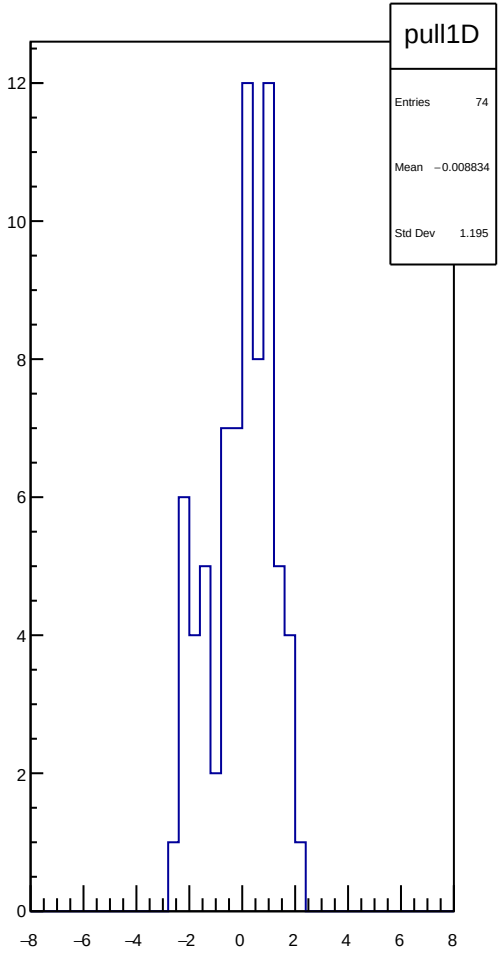

asym_bpm0i02WS_rms vs run
χ² / ndf 2171 / 73
p0 175.2 ± 0.1476
195
190
185
180
175
170
165
160
155

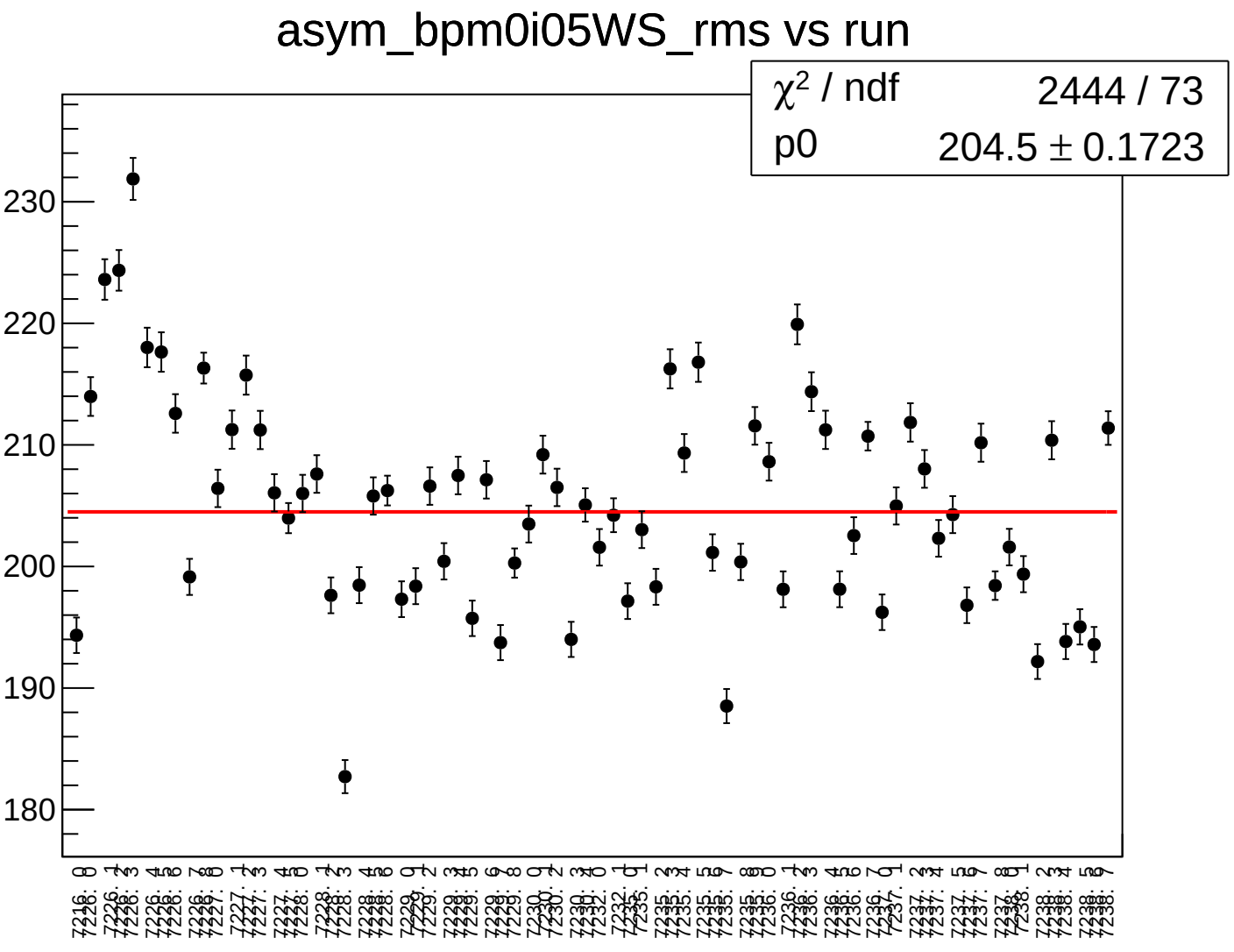

asym_bpm0i02aWS_mean vs run
χ² / ndf 427.1 / 73
p0 8249 ± 226.9
15000
10000
5000
0
−5000
pull
Entries 74
Mean 8173
Std Dev 8155
4
2
0
−2
−4
−6

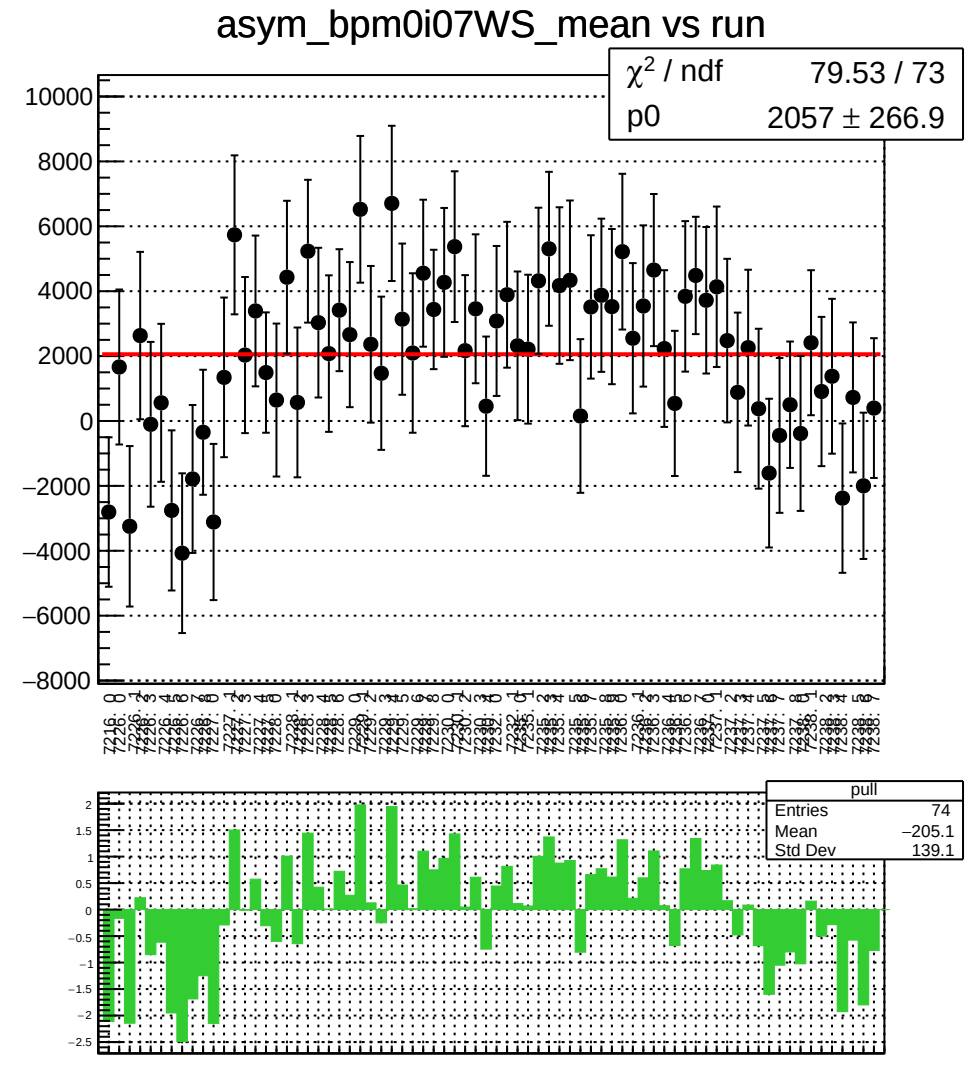

pull1D
Entries 74
Mean 0.002416
Std Dev 2.402
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

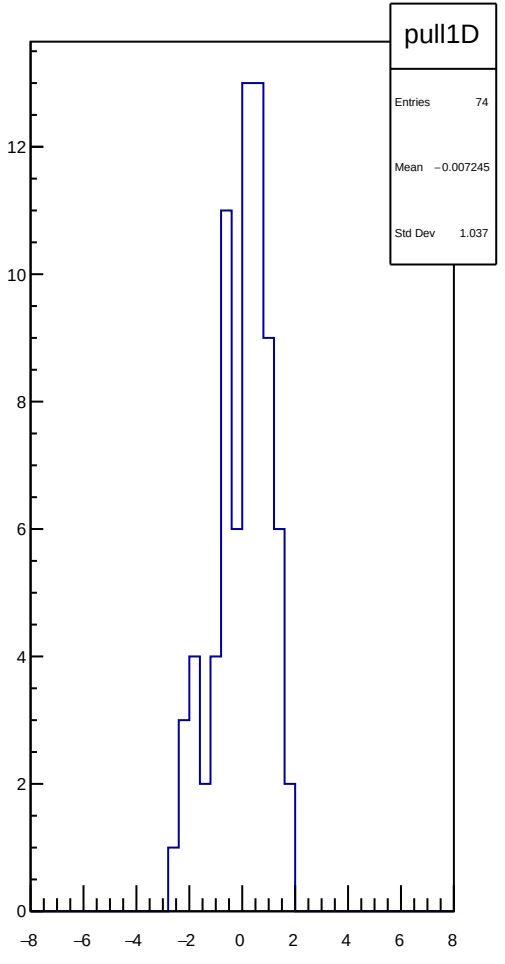

asym_bpm0i02aWS_rms vs run
χ² / ndf 1515 / 73
p0 190.5 ± 0.1605
210
205
200
195
190
185
180
175
170

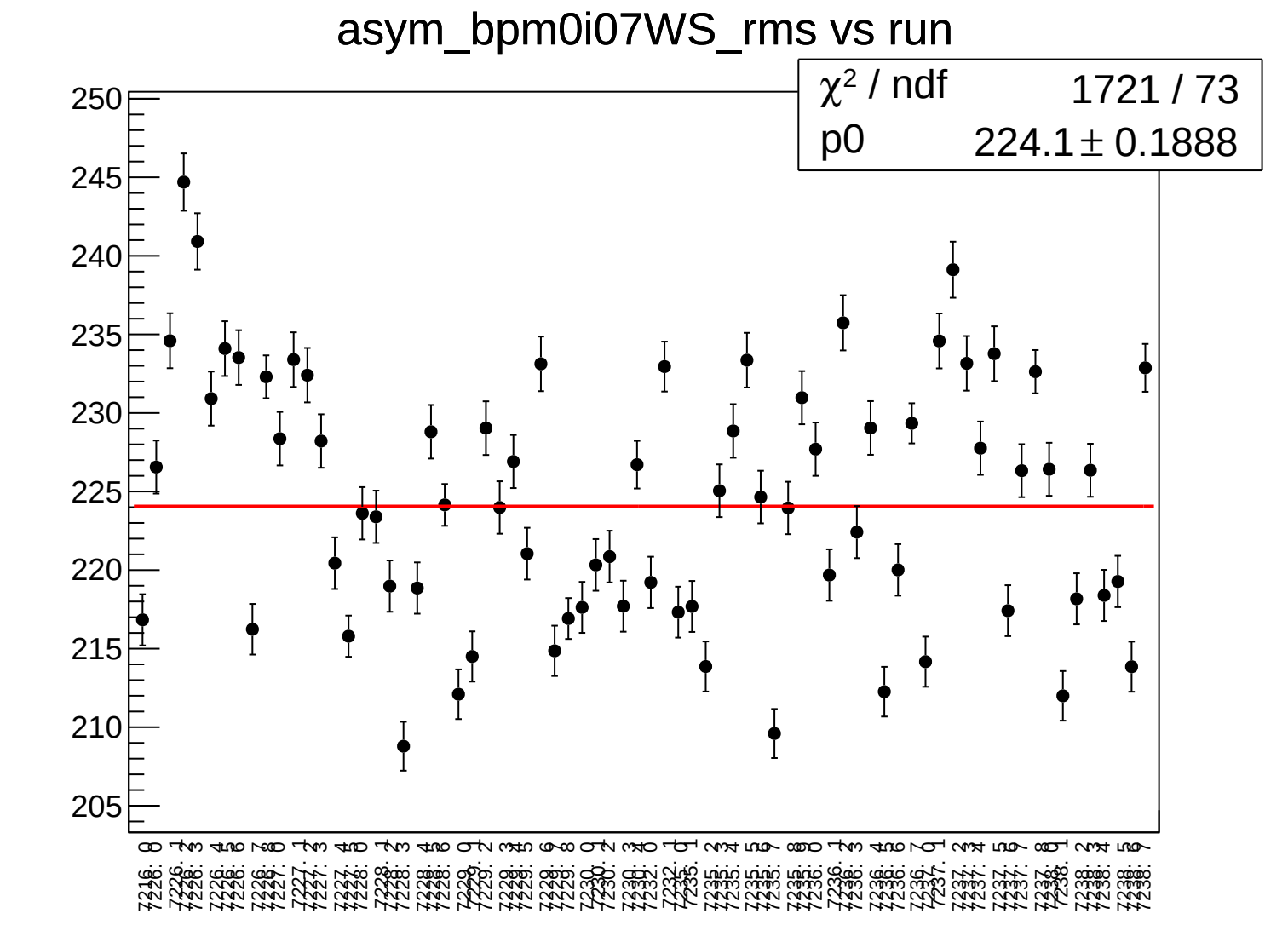

asym_bpm0i05WS_mean vs run
χ² / ndf 105.7 / 73
p0 2604 ± 243.7
pull
Entries 74
Mean −275.2
Std Dev 232.6

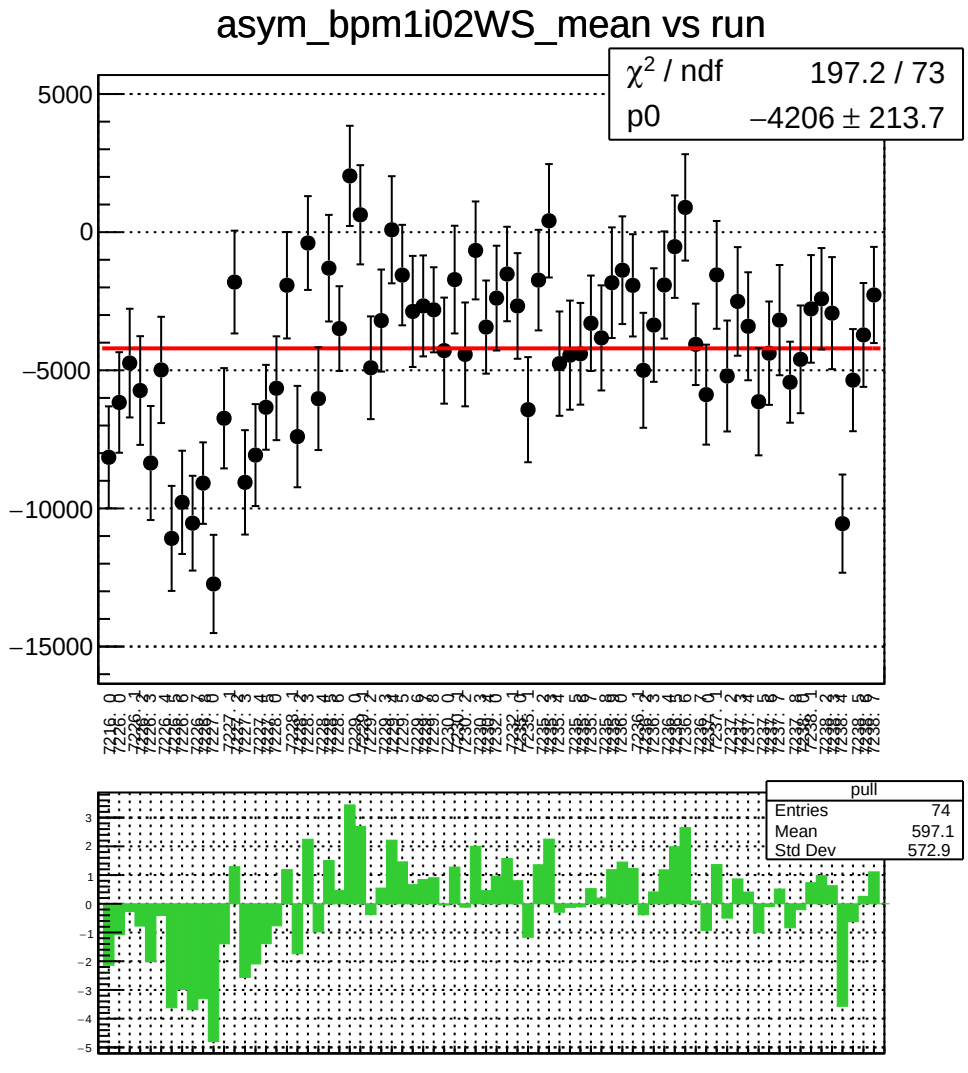

pull1D
Entries 74
Mean −0.008834
Std Dev 1.195

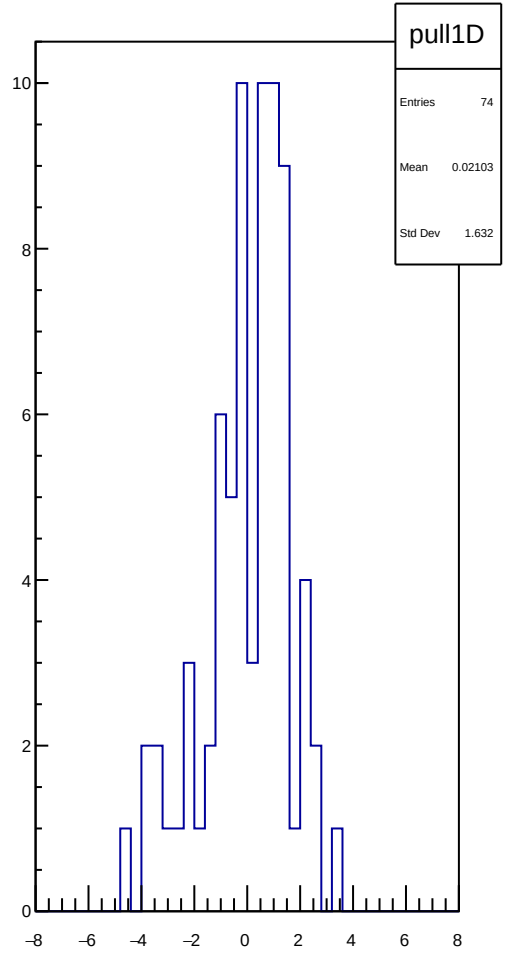

asym_bpm0i05WS_rms vs run
χ² / ndf 2444 / 73
p0 204.5 ± 0.1723
230
220
210
200
190
180

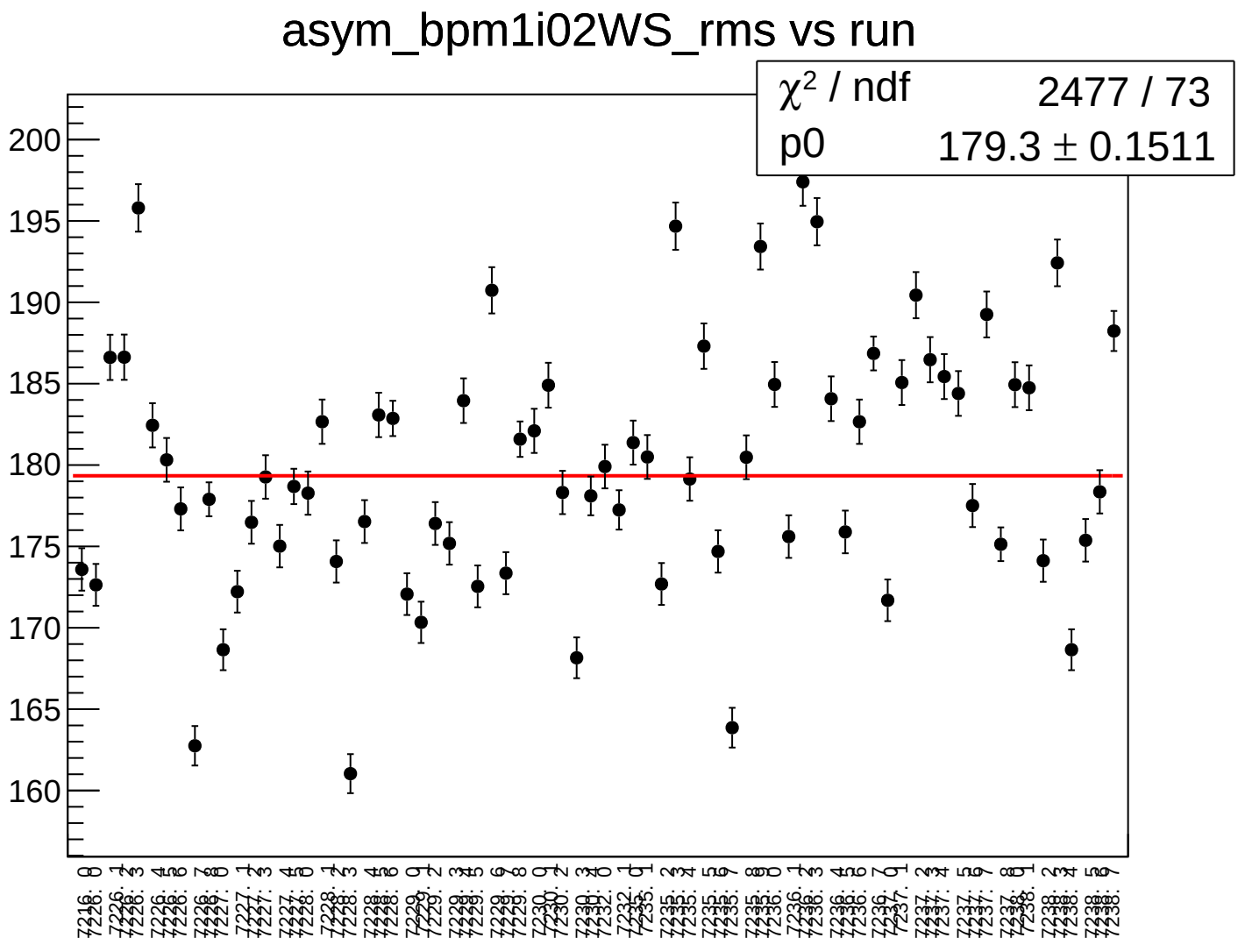

asym_bpm0i07WS_mean vs run
χ² / ndf 79.53 / 73
p0 2057 ± 266.9
pull
Entries 74
Mean −205.1
Std Dev 139.1

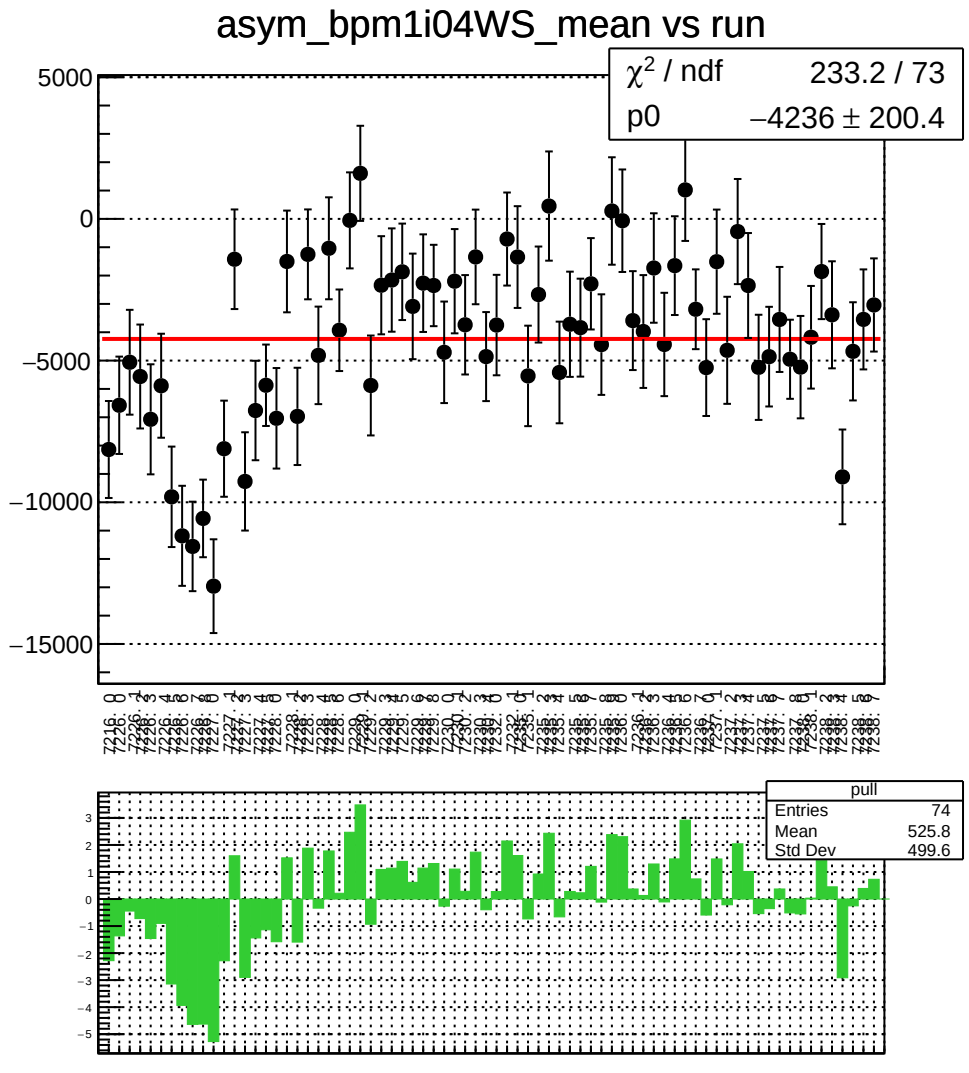

pull1D
Entries 74
Mean −0.007245
Std Dev 1.037

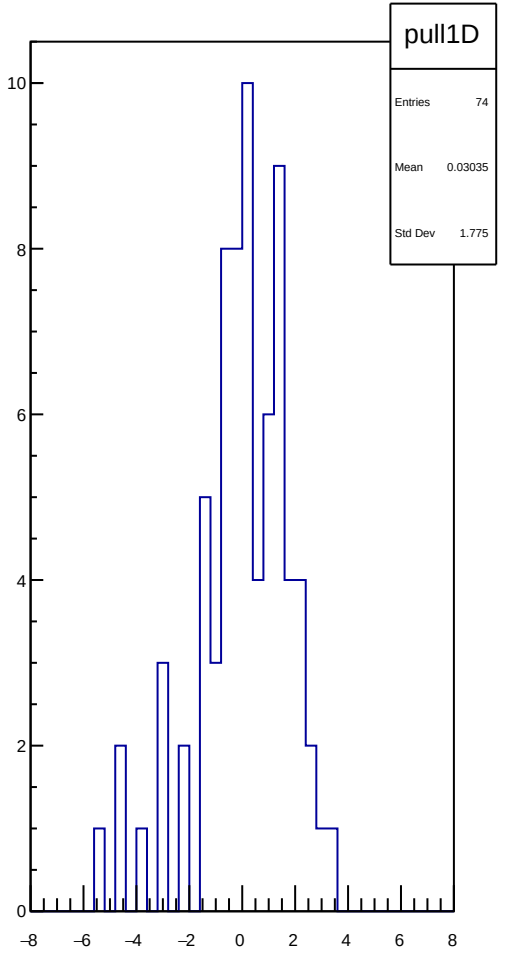

asym_bpm0i07WS_rms vs run
χ² / ndf 1721 / 73
p0 224.1 ± 0.1888
250
245
240
235
230
225
220
215
210
205

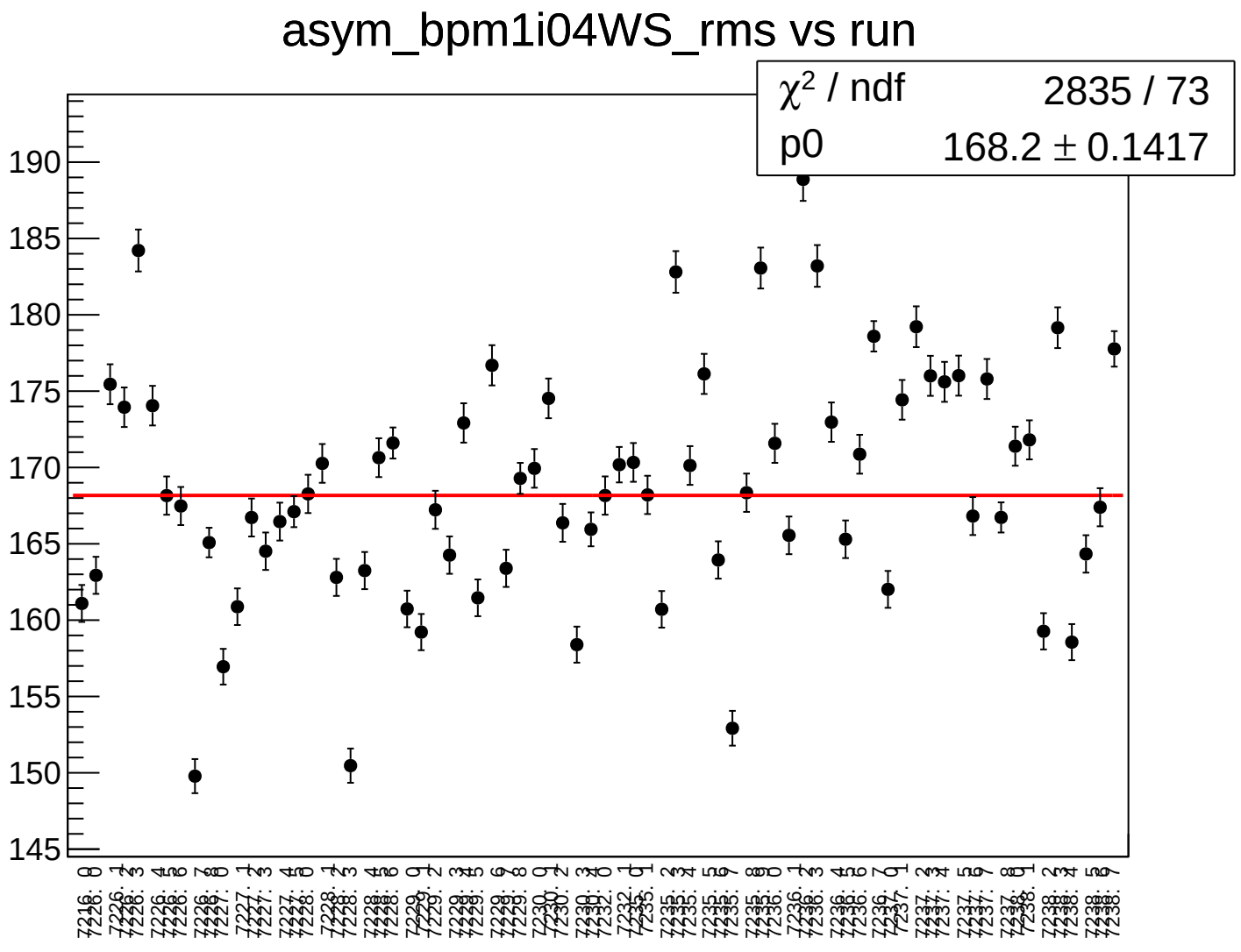

asym_bpm1i02WS_mean vs run
χ² / ndf 197.2 / 73
p0 −4206 ± 213.7
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 597.1
Std Dev 572.9
3
2
1
0
−1
−2
−3
−4
−5

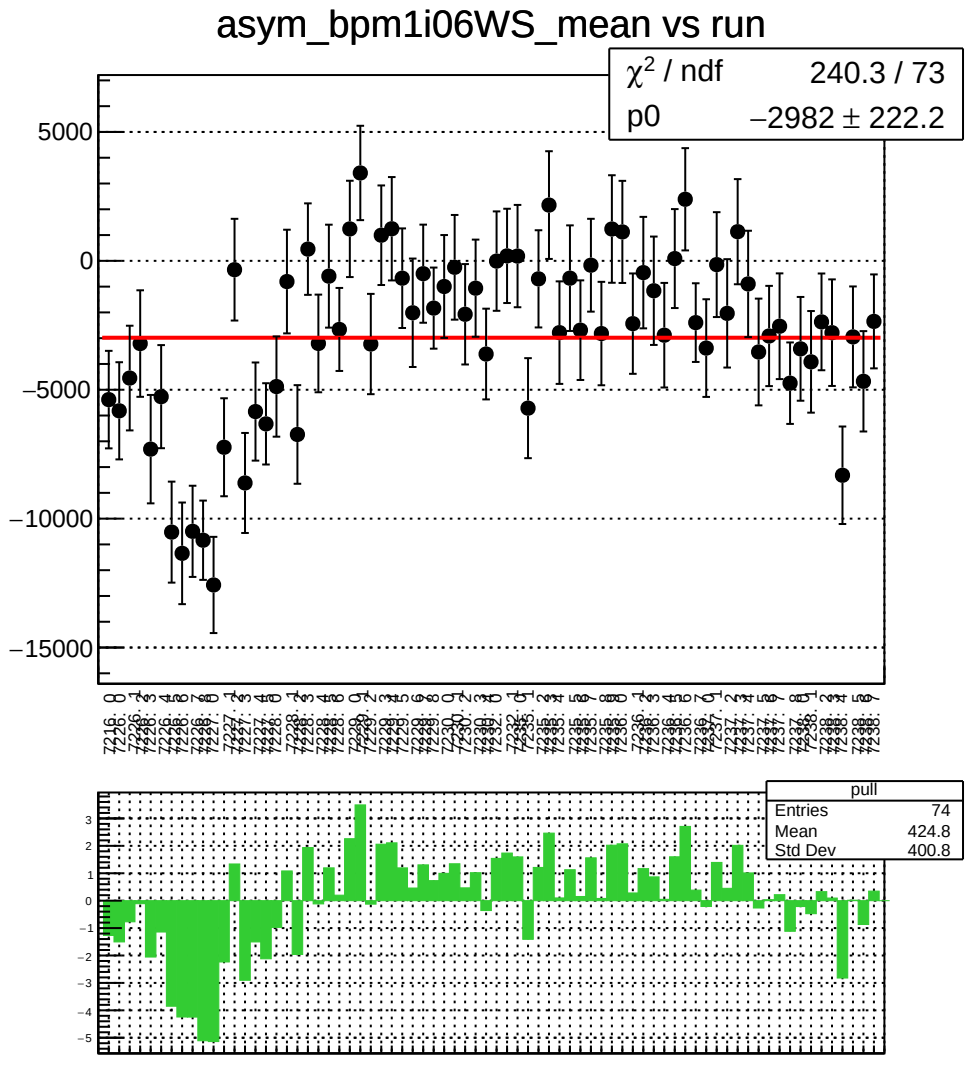

pull1D
Entries 74
Mean 0.02103
Std Dev 1.632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

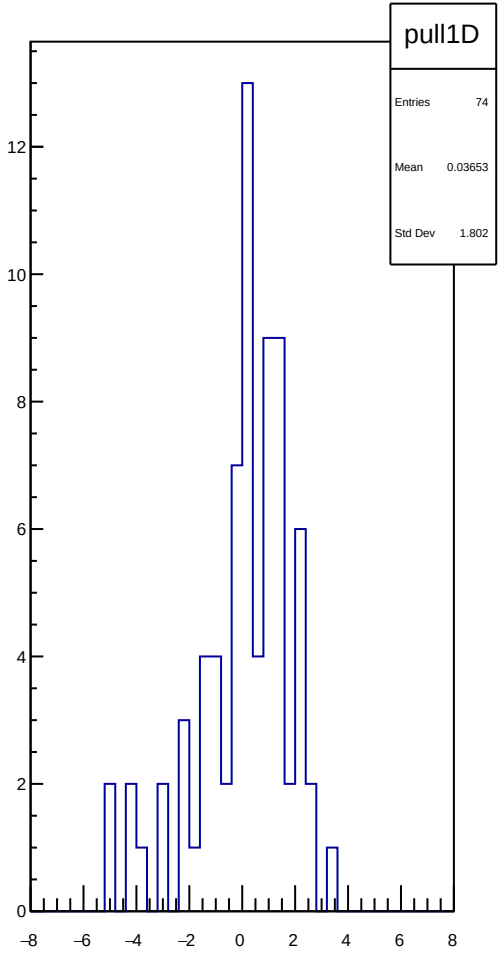

asym_bpm1i02WS_rms vs run
χ² / ndf 2477 / 73
p0 179.3 ± 0.1511
200
195
190
185
180
175
170
165
160

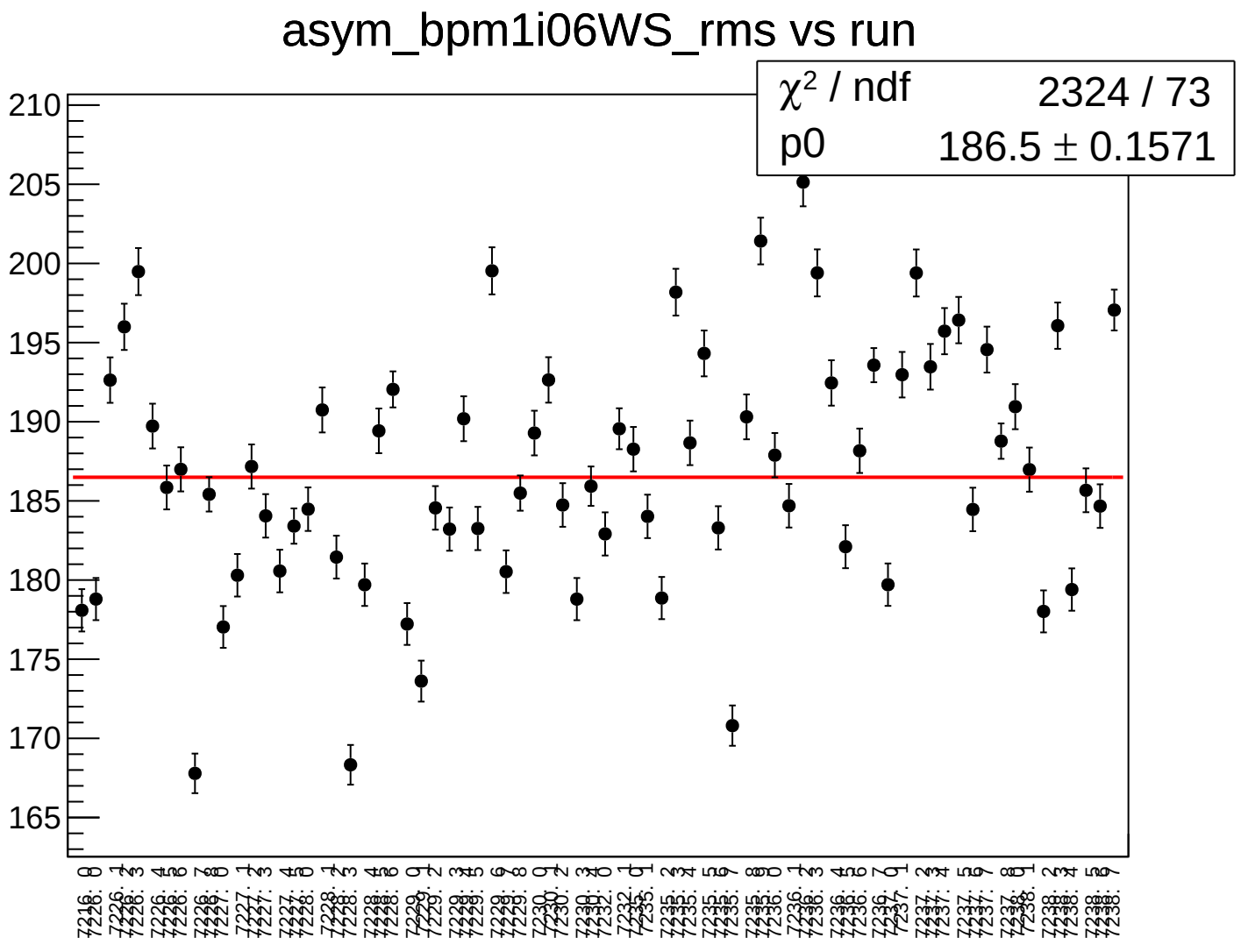

asym_bpm1i04WS_mean vs run
χ² / ndf 233.2 / 73
p0 −4236 ± 200.4
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 525.8
Std Dev 499.6
3
2
1
0
−1
−2
−3
−4
−5

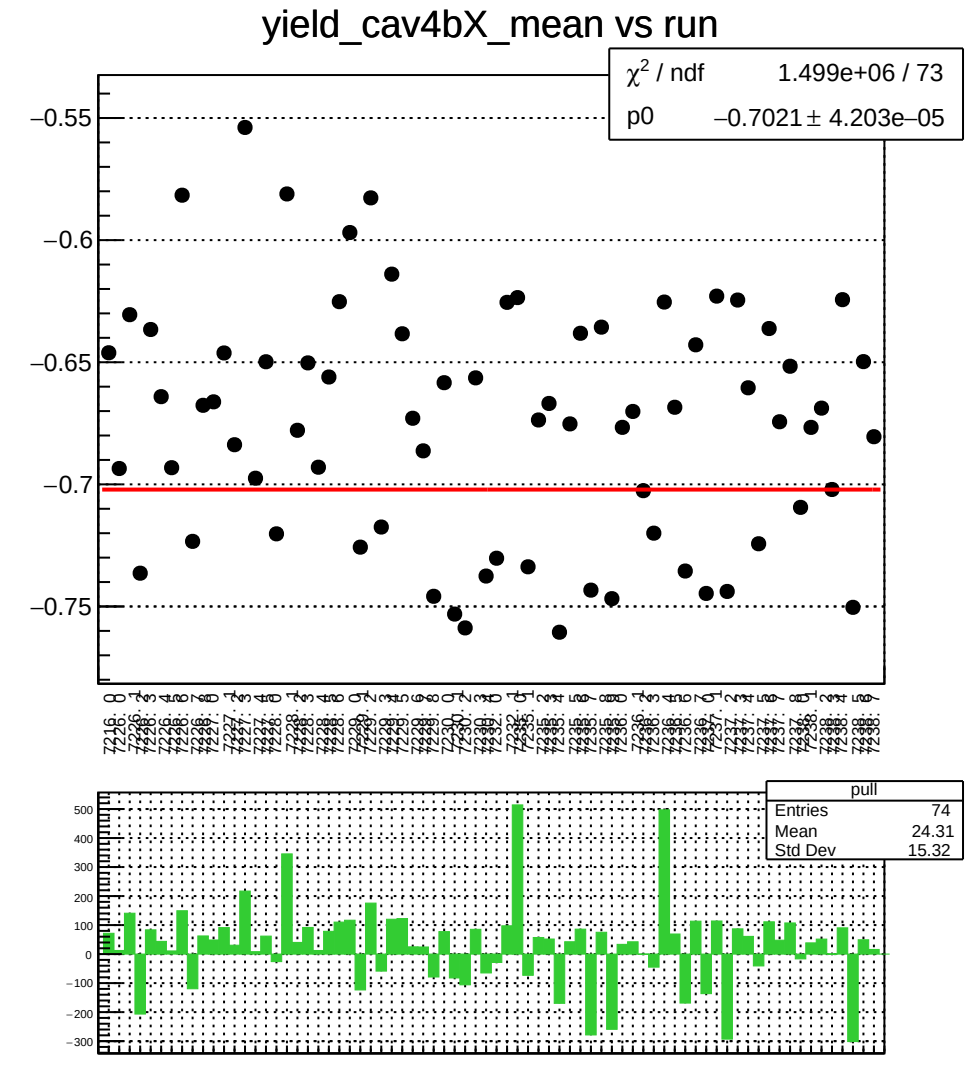

pull1D
Entries 74
Mean 0.03035
Std Dev 1.775
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

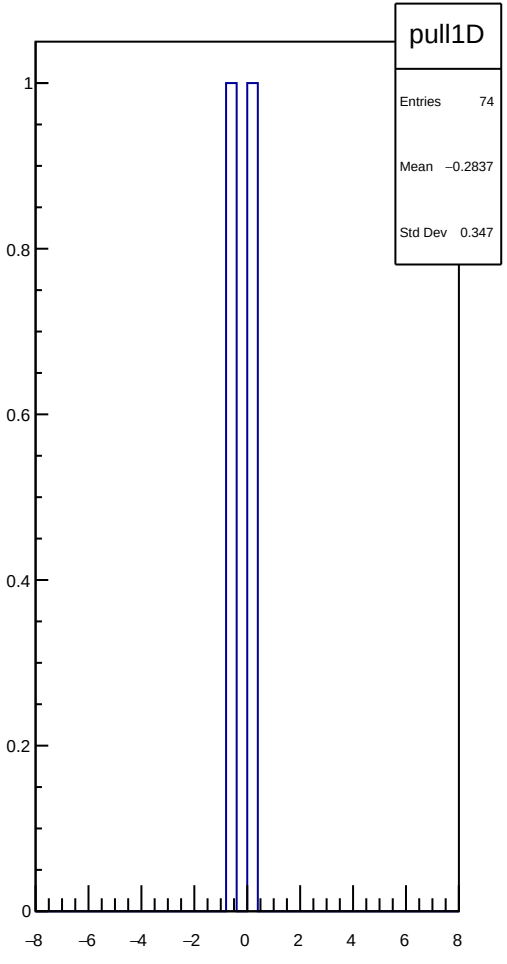

asym_bpm1i04WS_rms vs run
χ² / ndf 2835 / 73
p0 168.2 ± 0.1417
190
185
180
175
170
165
160
155
150
145

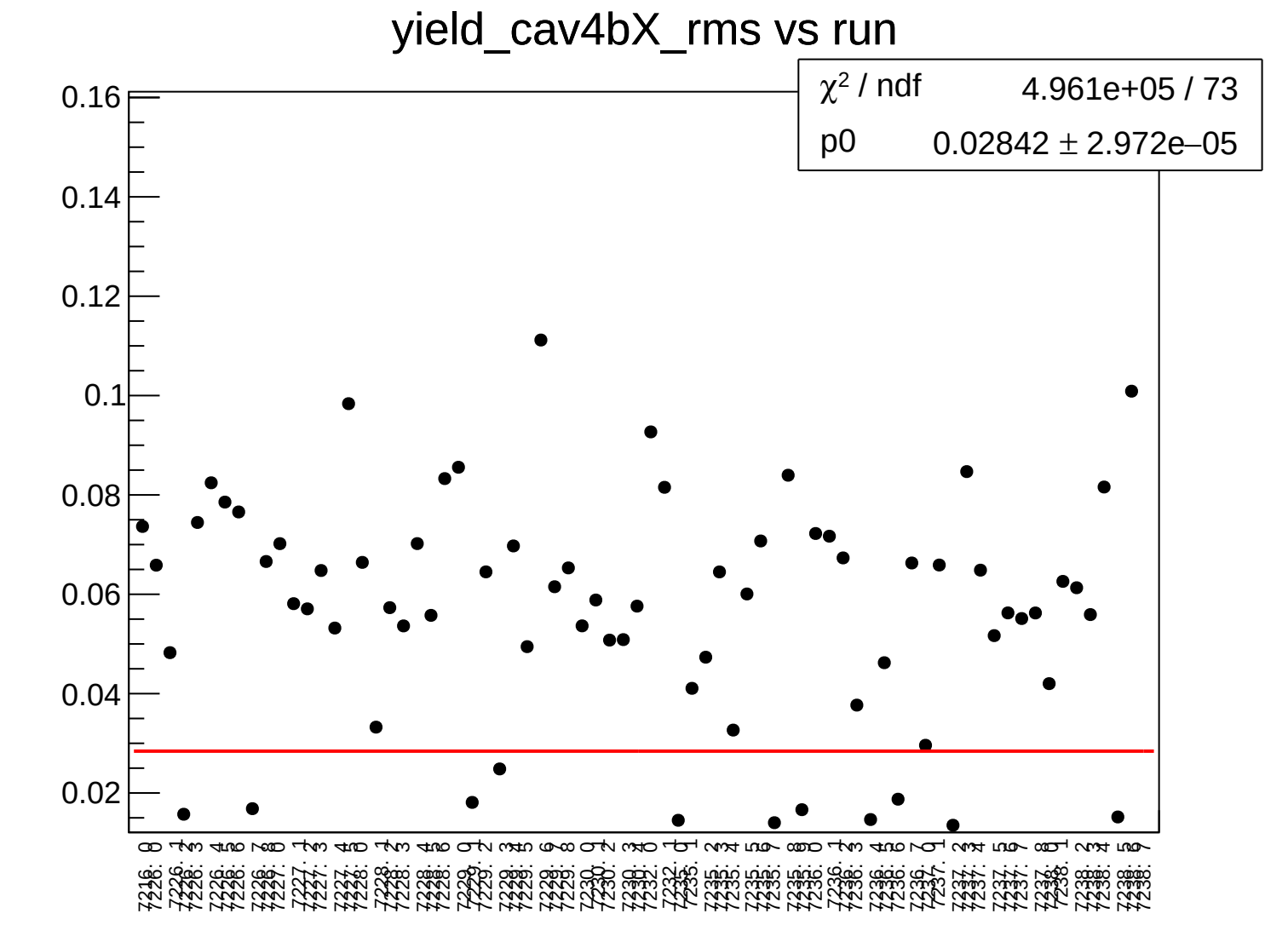

asym_bpm1i06WS_mean vs run
χ² / ndf 240.3 / 73
p0 −2982 ± 222.2
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 424.8
Std Dev 400.8
3
2
1
0
−1
−2
−3
−4
−5

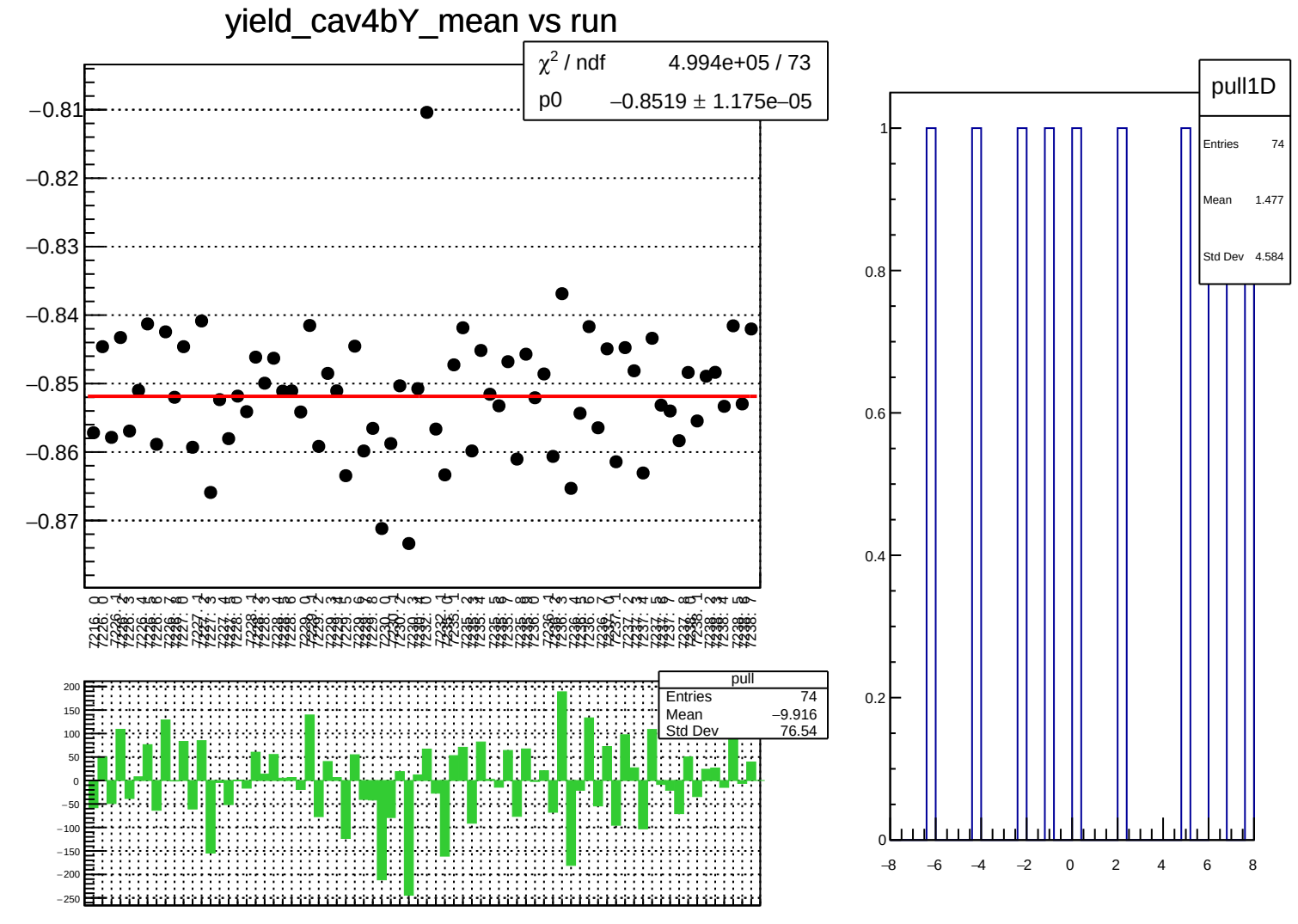

pull1D
Entries 74
Mean 0.03653
Std Dev 1.802
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

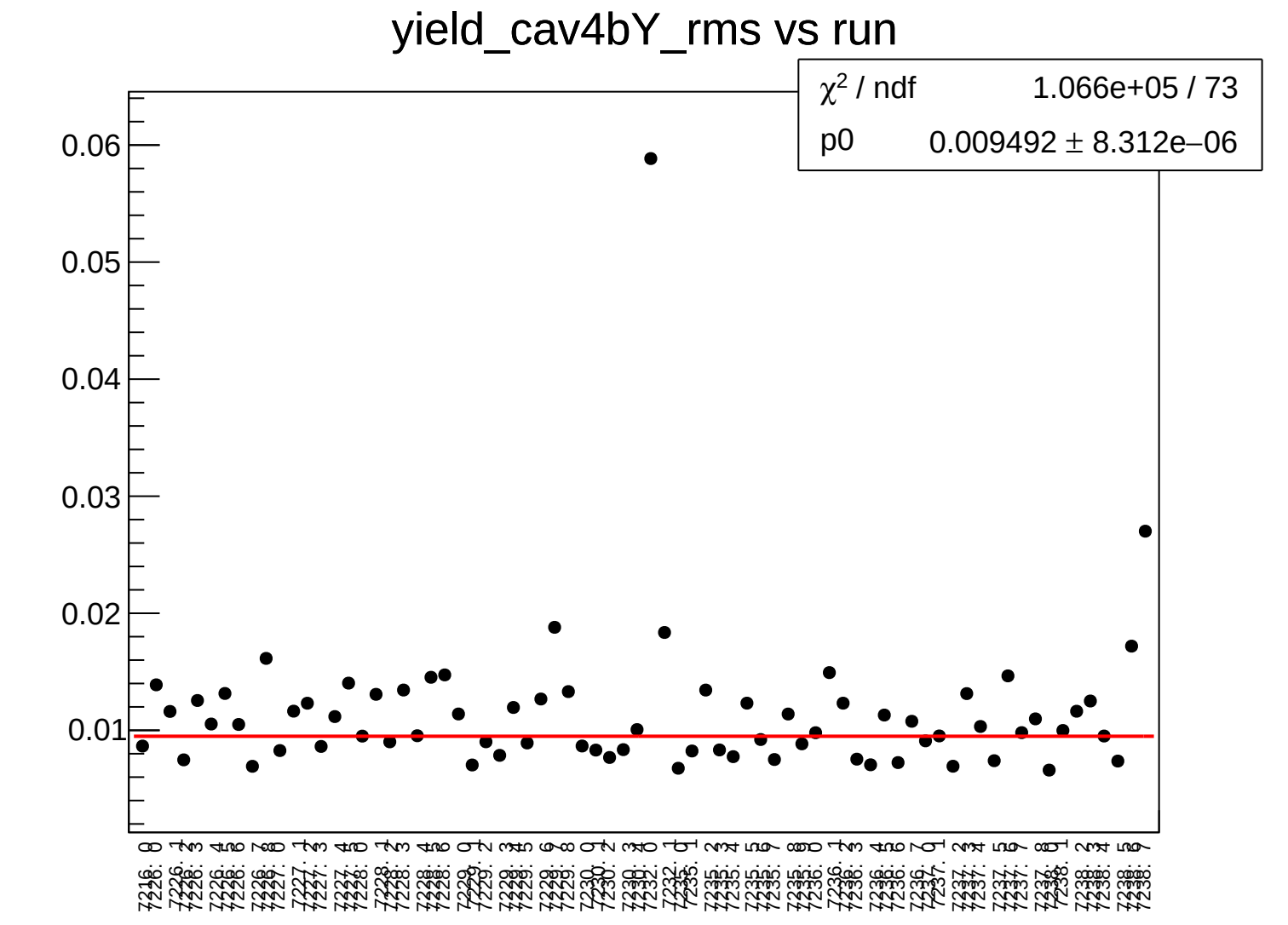

asym_bpm1i06WS_rms vs run
χ² / ndf 2324 / 73
p0 186.5 ± 0.1571
210
205
200
195
190
185
180
175
170
165

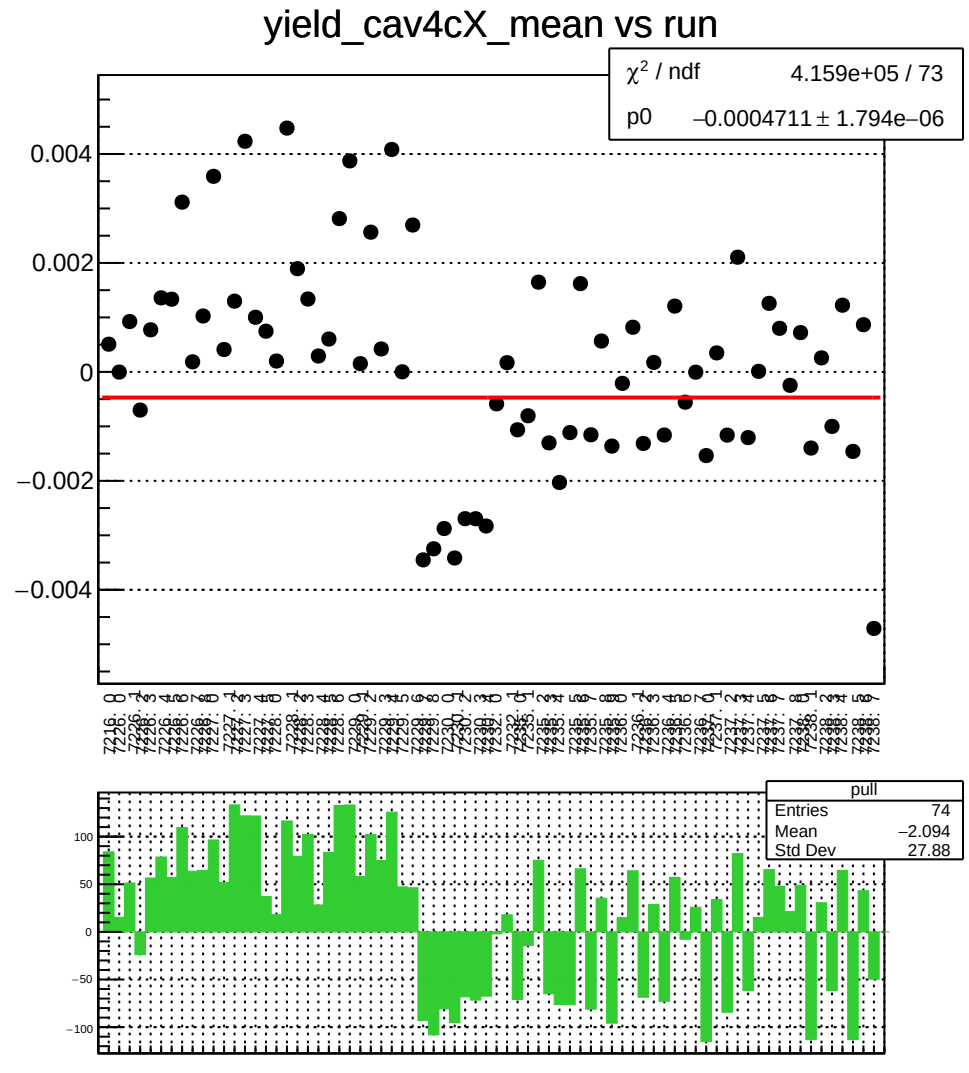

yield_cav4bX_mean vs run
χ² / ndf 1.499e+06 / 73
p0 −0.7021 ± 4.203e−05
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 74
Mean 24.31
Std Dev 15.32
500
400
300
200
100
0
−100
−200
−300

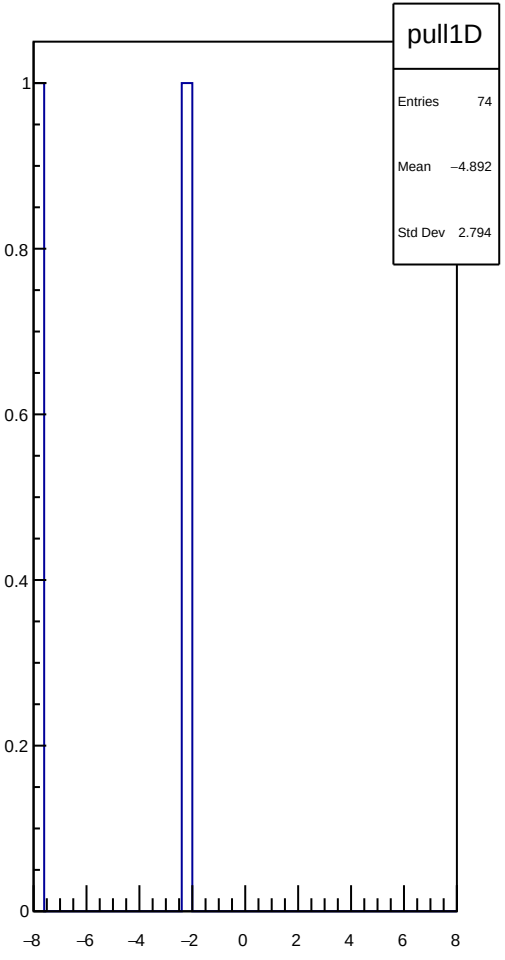

pull1D
Entries 74
Mean −0.2837
Std Dev 0.347
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

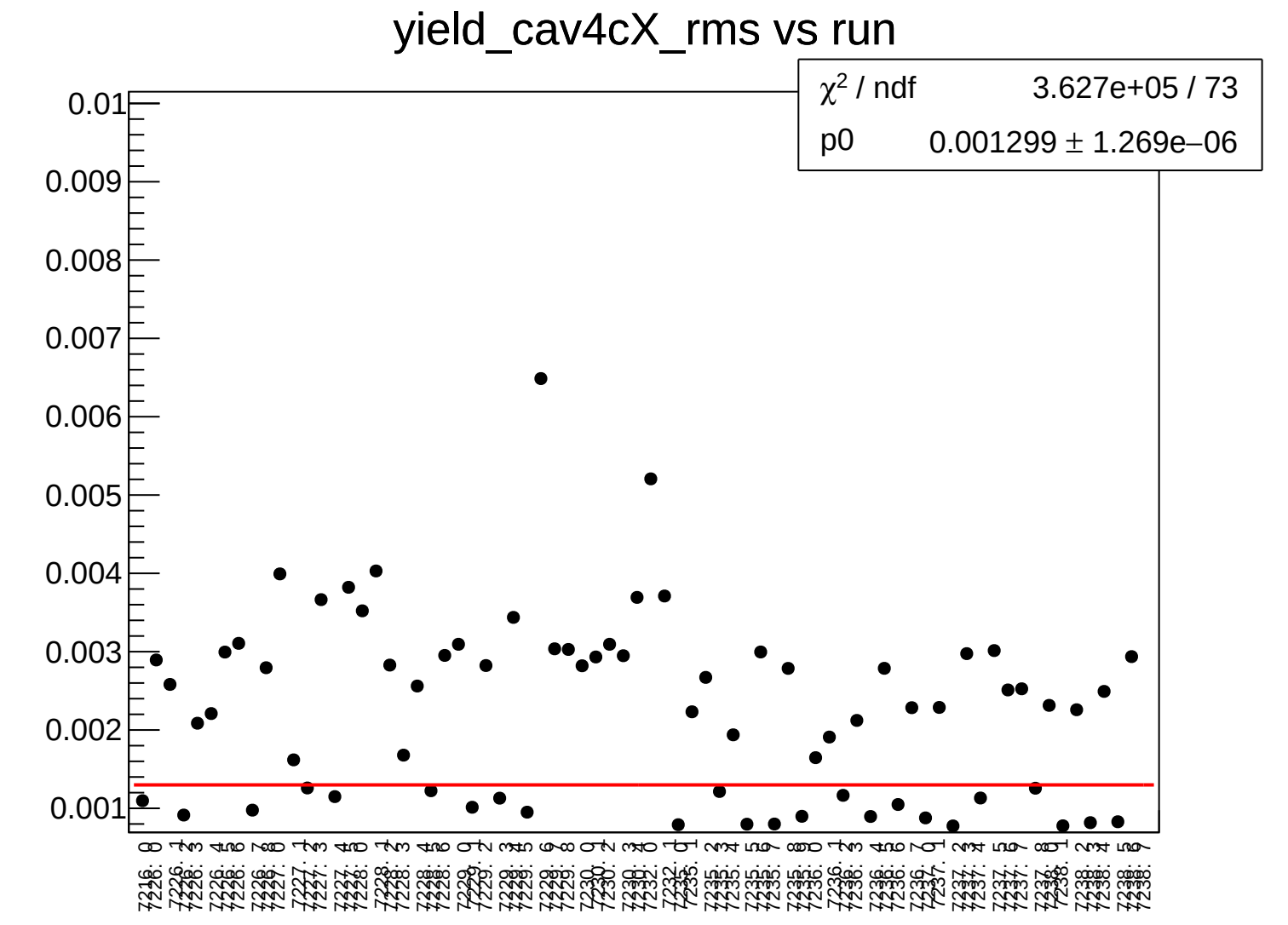

yield_cav4bX_rms vs run
χ² / ndf 4.961e+05 / 73
p0 0.02842 ± 2.972e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

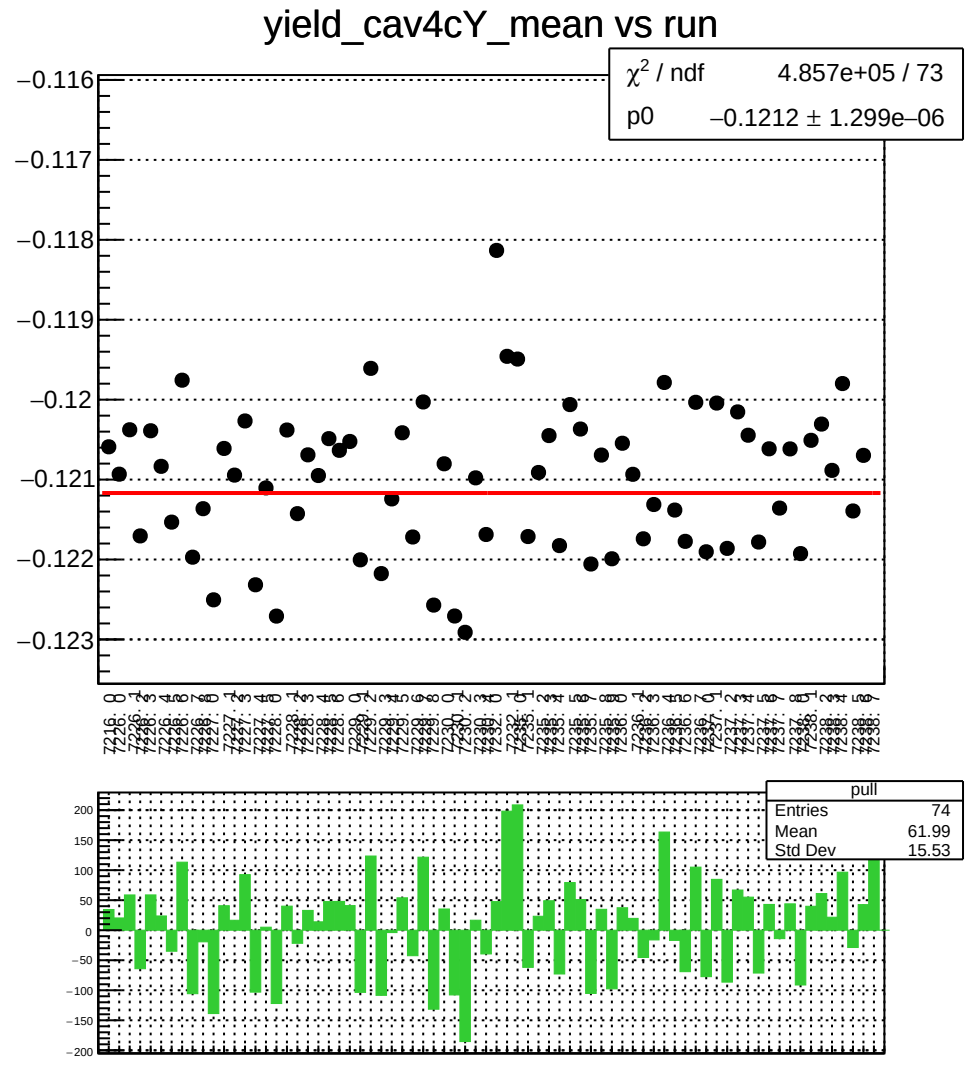

yield_cav4bY_mean vs run
χ² / ndf 4.994e+05 / 73
p0 −0.8519 ± 1.175e−05
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
−0.87
pull
Entries 74
Mean −9.916
Std Dev 76.54
200
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 74
Mean 1.477
Std Dev 4.584
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

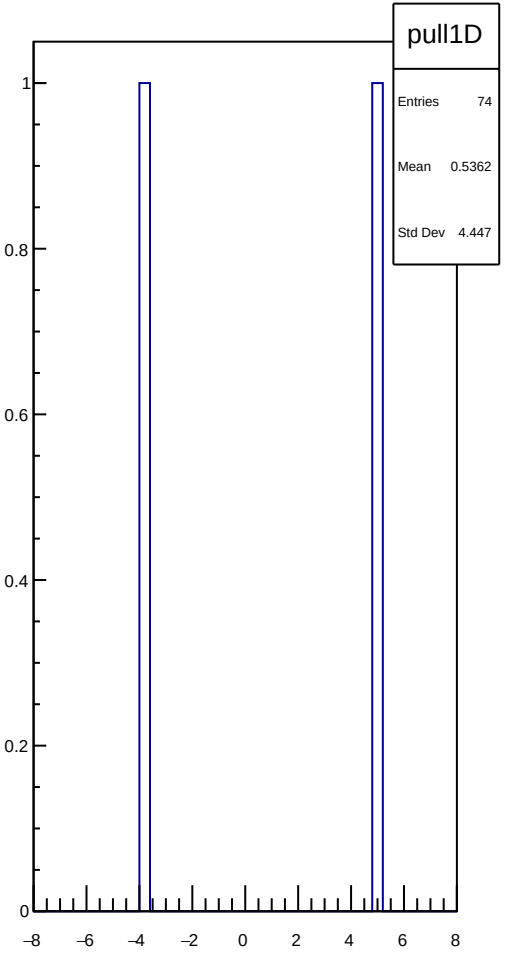

yield_cav4bY_rms vs run
χ² / ndf 1.066e+05 / 73
p0 0.009492 ± 8.312e−06
0.06
0.05
0.04
0.03
0.02
0.01

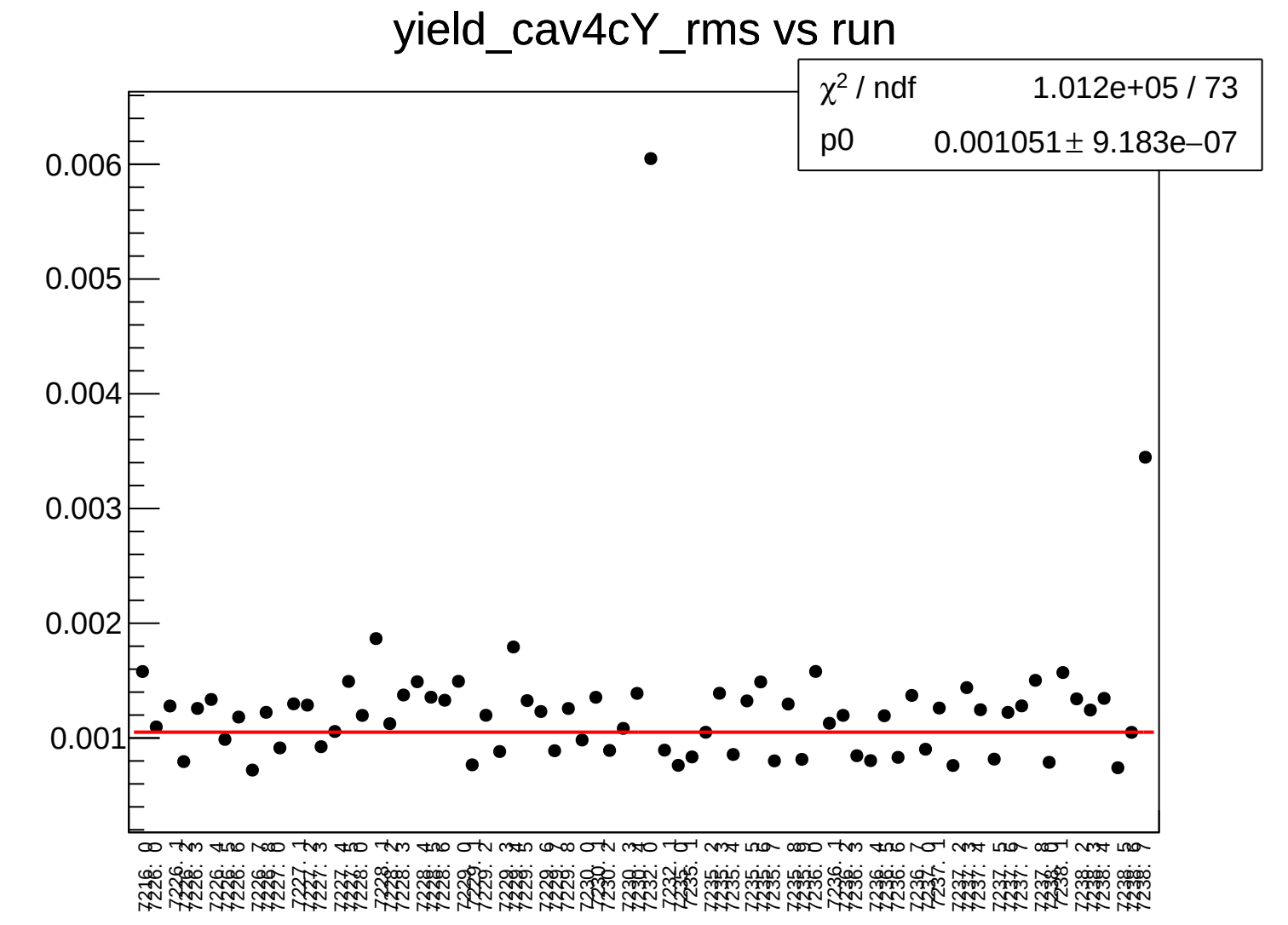

yield_cav4cX_mean vs run
χ² / ndf 4.159e+05 / 73
p0 −0.0004711 ± 1.794e−06
0.004
0.002
0
−0.002
−0.004
pull
Entries 74
Mean −2.094
Std Dev 27.88
100
50
0
−50
−100

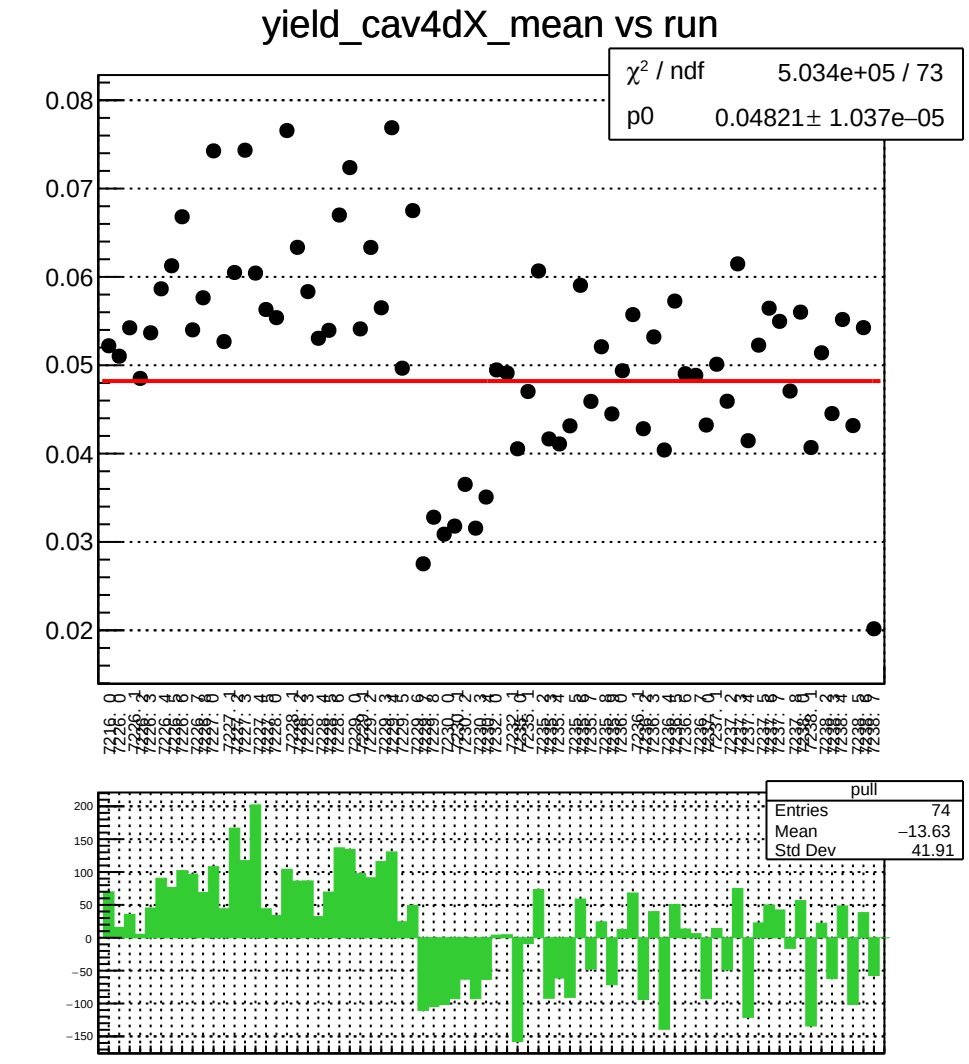

pull1D
Entries 74
Mean −4.892
Std Dev 2.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

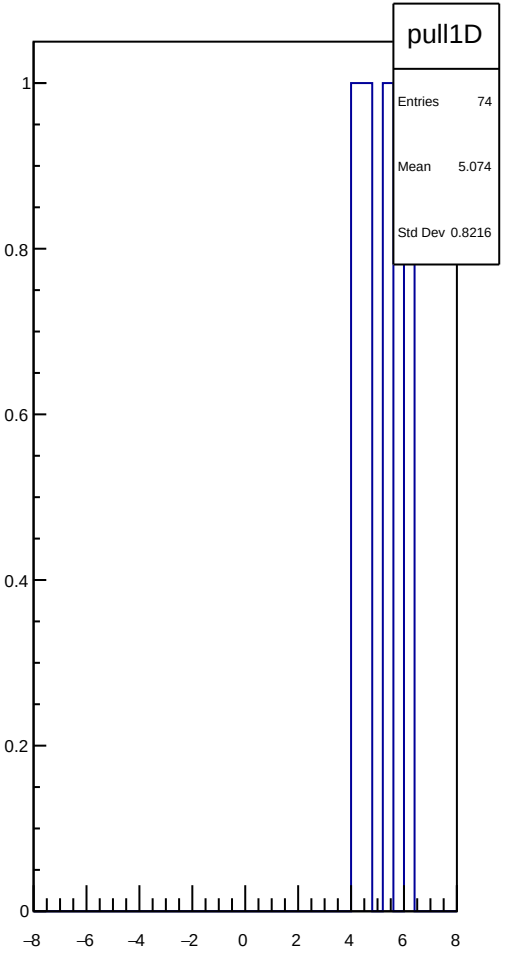

yield_cav4cX_rms vs run
χ^2 / ndf 3.627e+05 / 73
p0 0.001299 ± 1.269e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

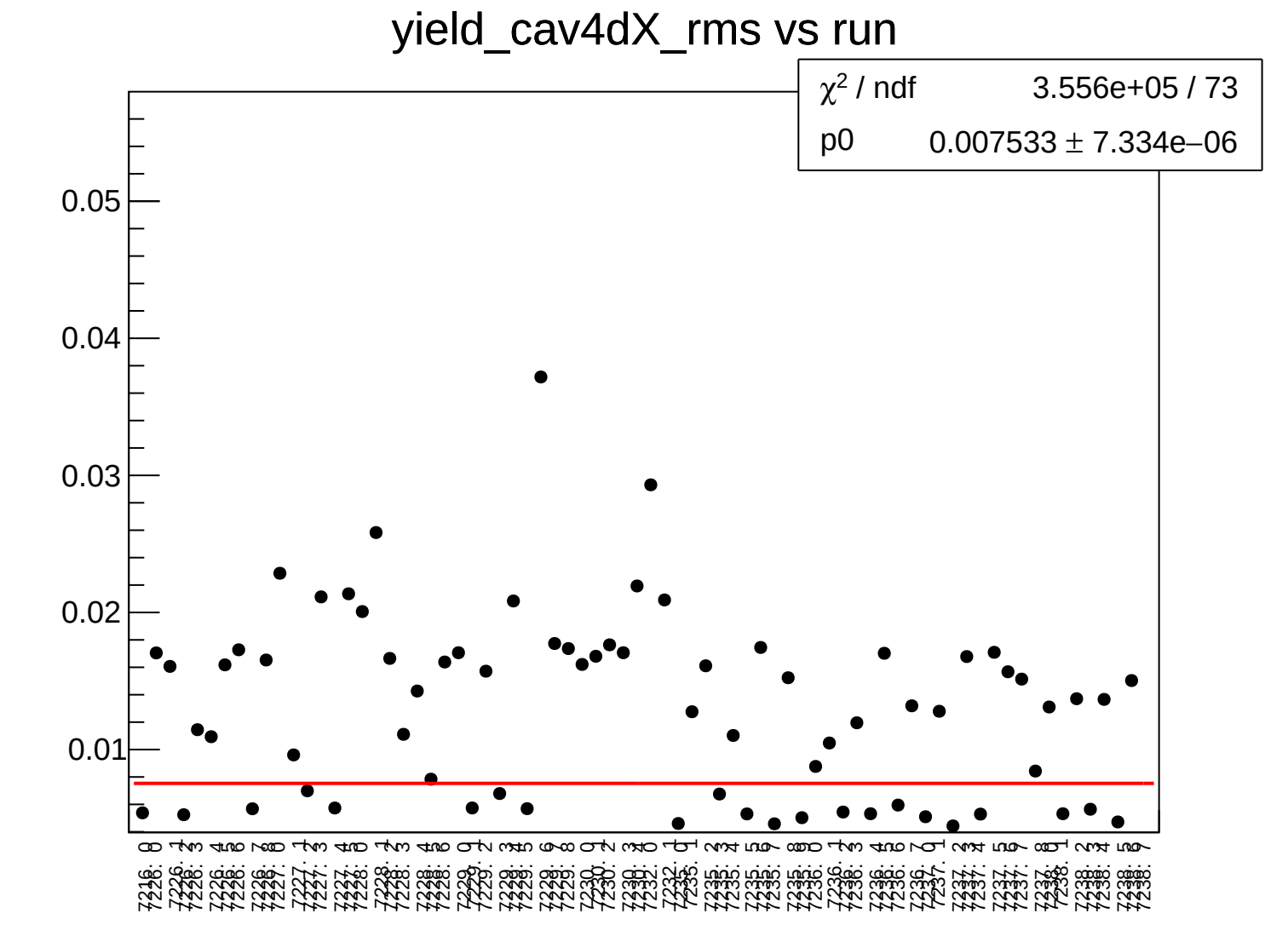

yield_cav4cY_mean vs run
χ² / ndf 4.857e+05 / 73
p0 −0.1212 ± 1.299e−06
pull
Entries 74
Mean 61.99
Std Dev 15.53

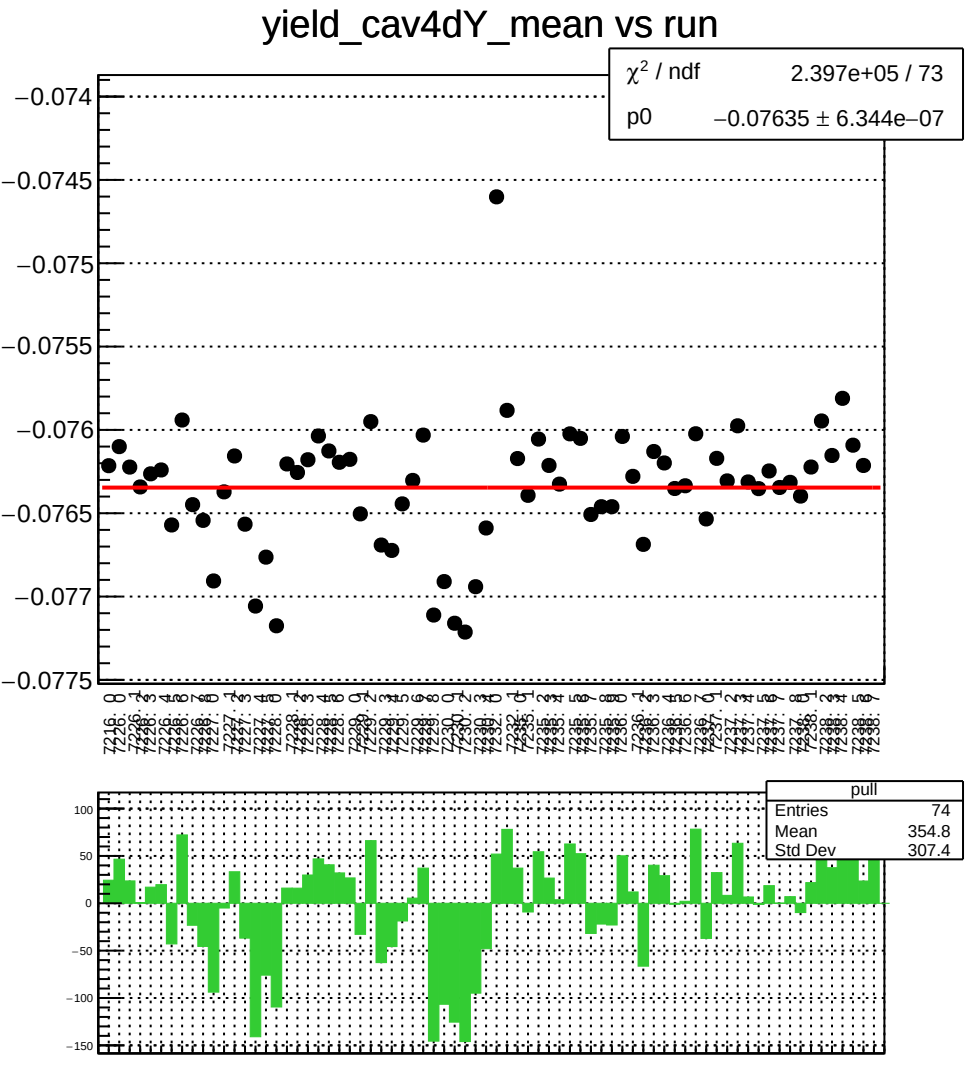

pull1D
Entries 74
Mean 0.5362
Std Dev 4.447

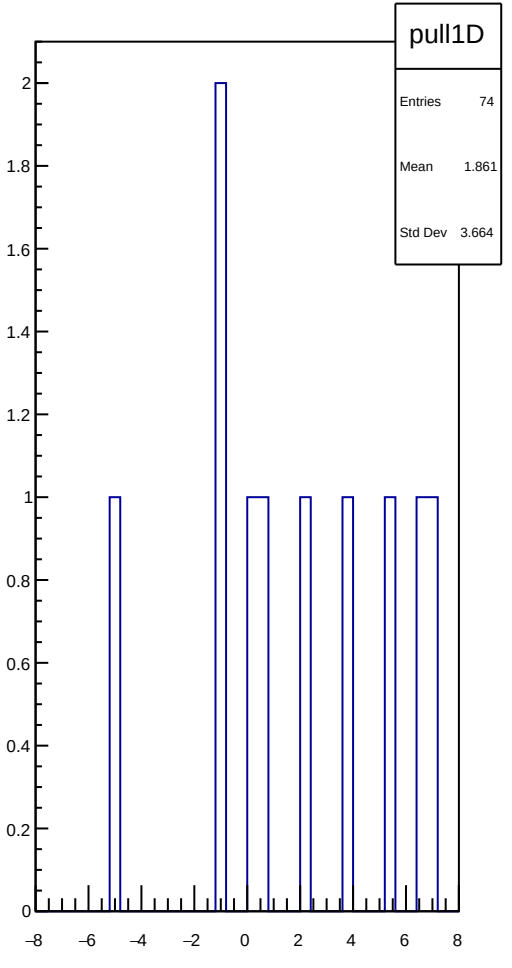

yield_cav4cY_rms vs run
χ² / ndf 1.012e+05 / 73
p0 0.001051 ± 9.183e−07
0.006
0.005
0.004
0.003
0.002
0.001

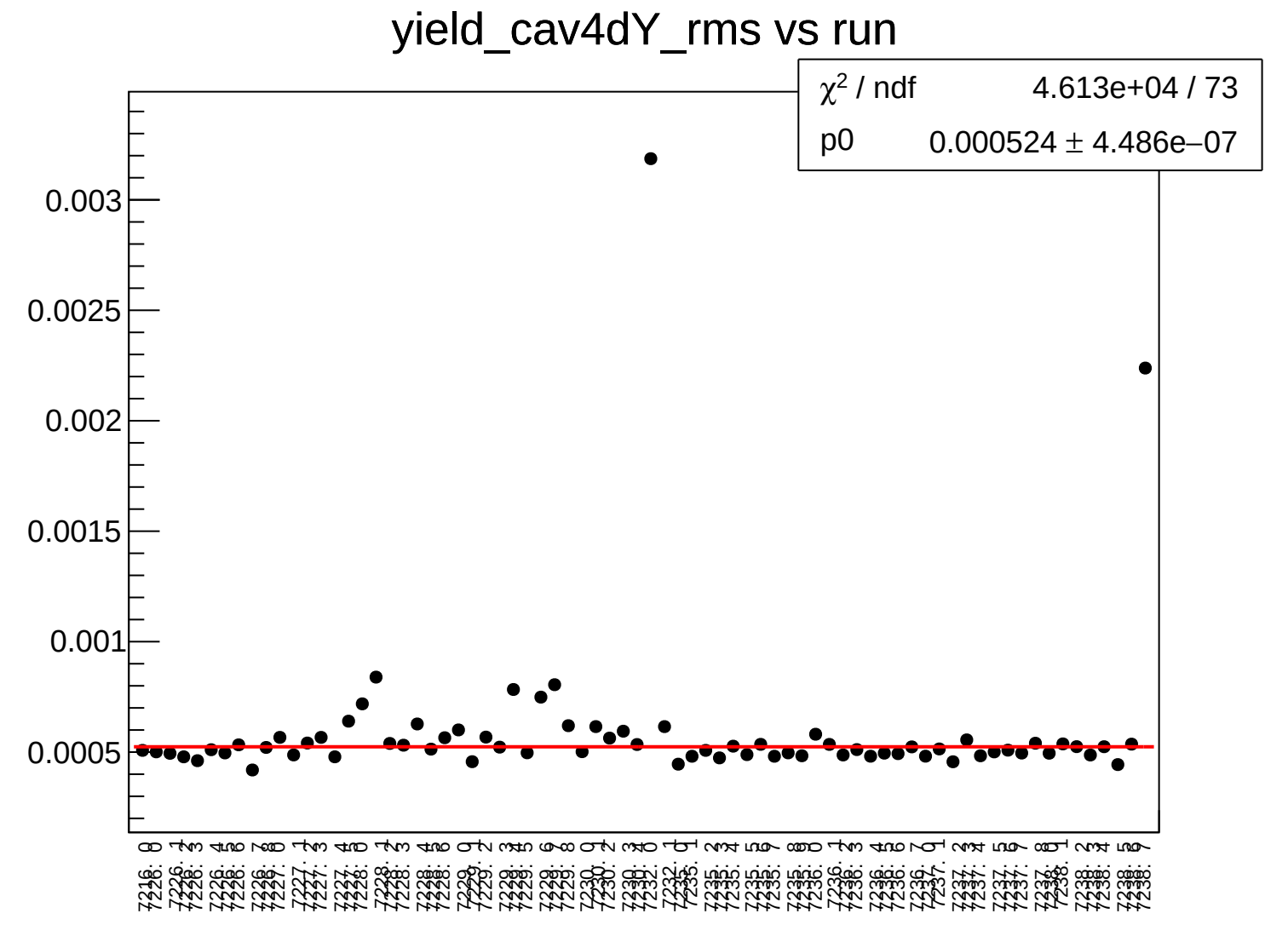

yield_cav4dX_mean vs run
χ² / ndf 5.034e+05 / 73
p0 0.04821± 1.037e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 74
Mean −13.63
Std Dev 41.91
200
150
100
50
0
−50
−100
−150

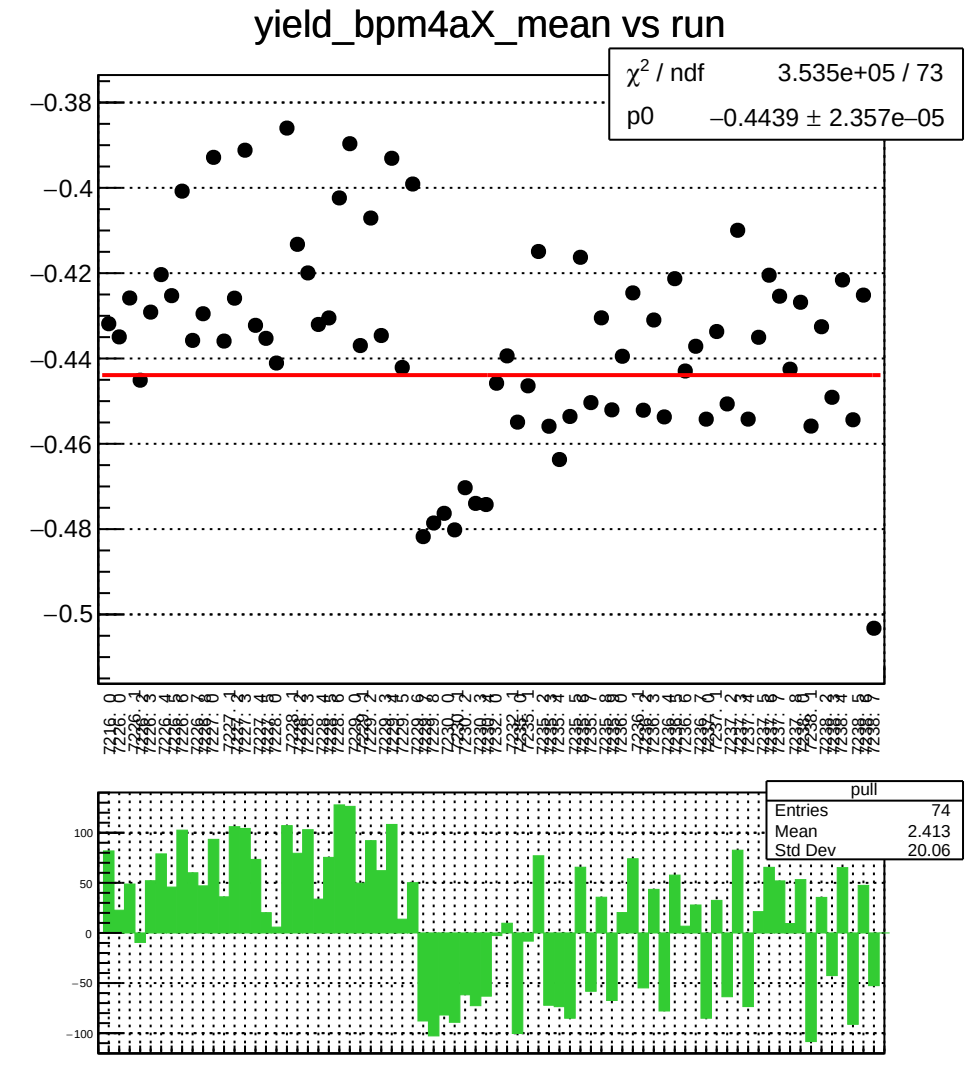

pull1D
Entries 74
Mean 5.074
Std Dev 0.8216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

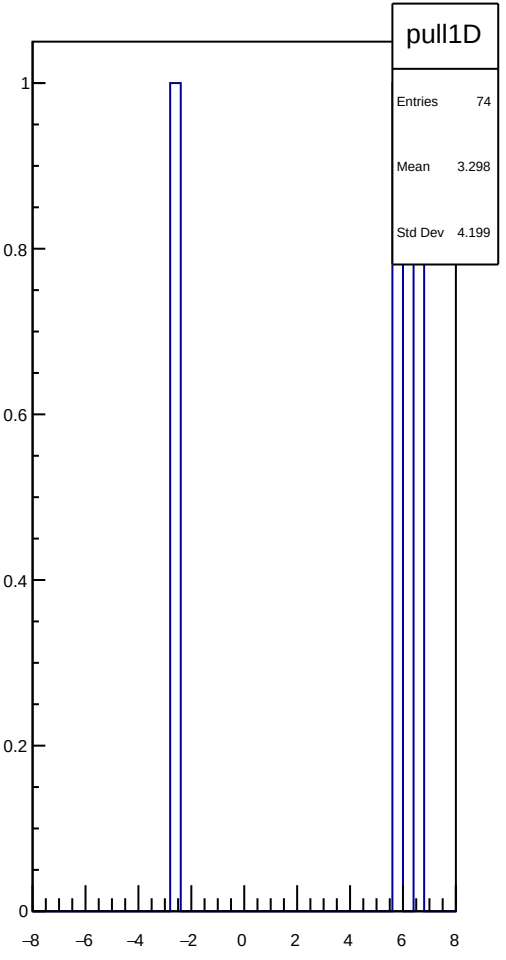

yield_cav4dX_rms vs run
χ² / ndf 3.556e+05 / 73
p0 0.007533 ± 7.334e−06
0.05
0.04
0.03
0.02
0.01

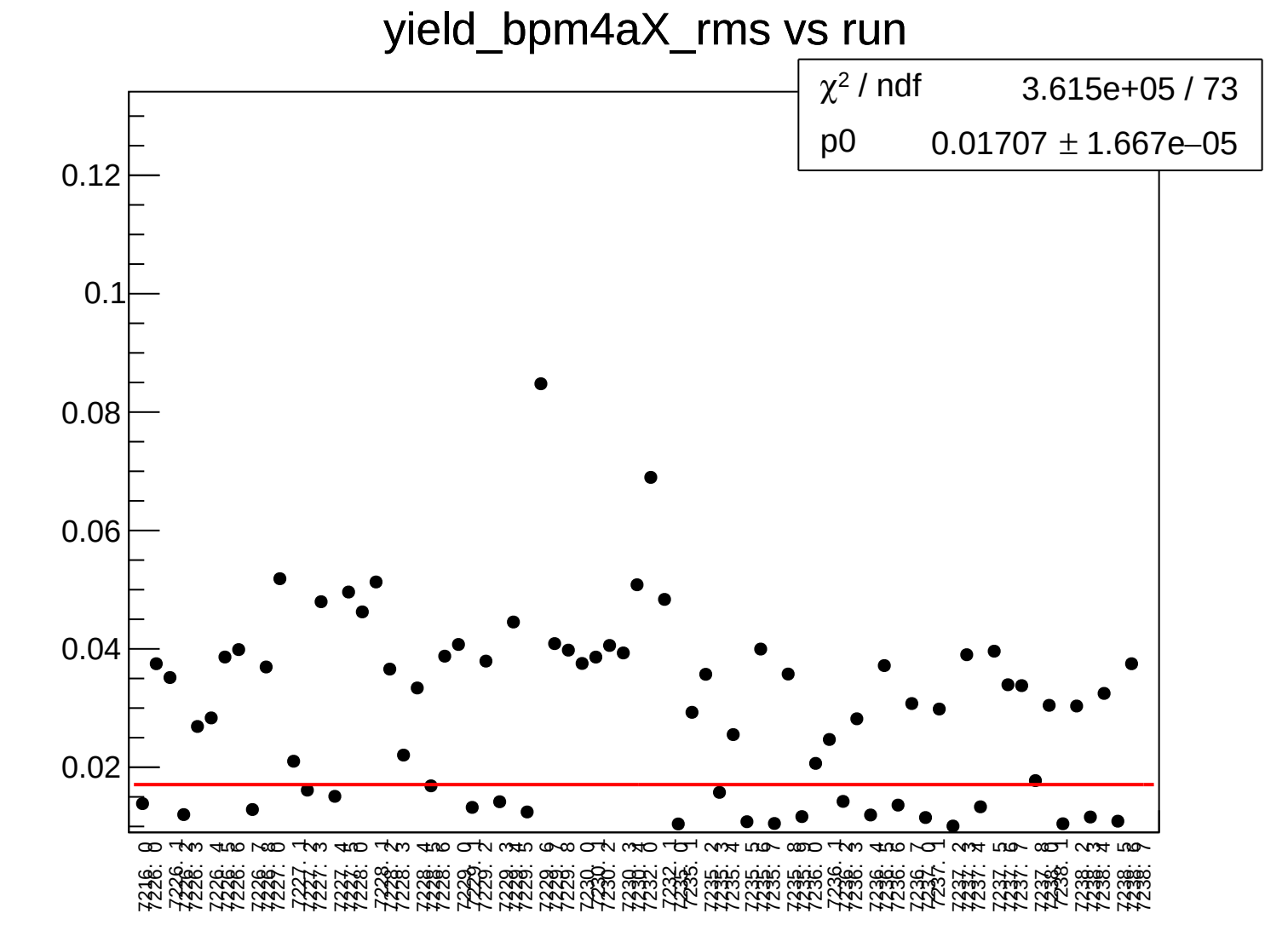

yield_cav4dY_mean vs run
χ² / ndf 2.397e+05 / 73
p0 −0.07635 ± 6.344e−07
pull
Entries 74
Mean 354.8
Std Dev 307.4

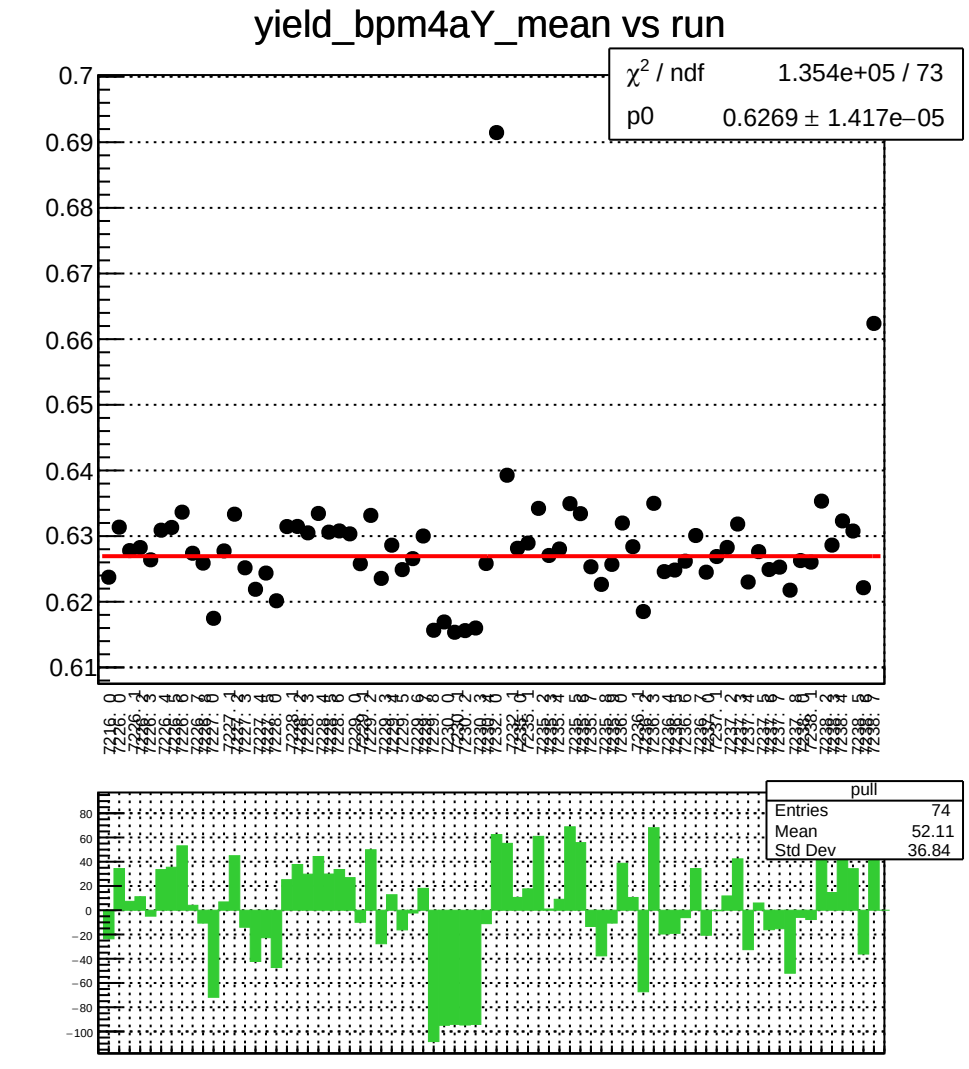

pull1D
Entries 74
Mean 1.861
Std Dev 3.664

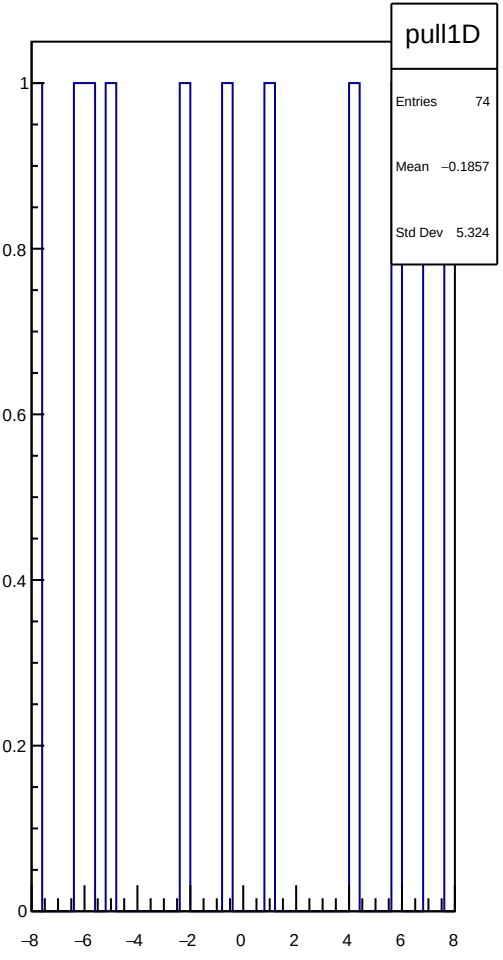

yield_cav4dY_rms vs run
χ² / ndf 4.613e+04 / 73
p0 0.000524 ± 4.486e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

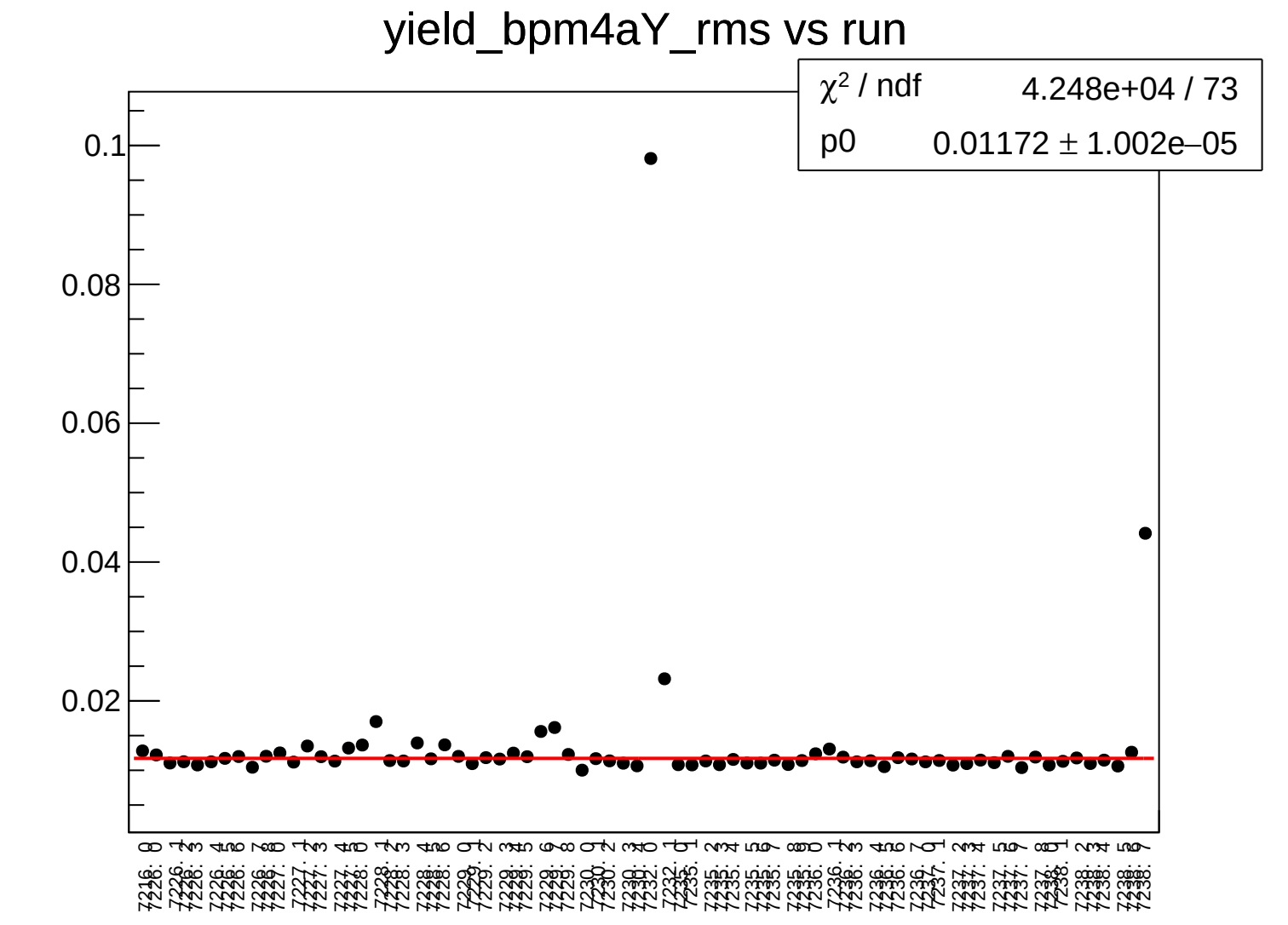

yield_bpm4aX_mean vs run
χ² / ndf 3.535e+05 / 73
p0 −0.4439 ± 2.357e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 74
Mean 2.413
Std Dev 20.06
100
50
0
−50
−100

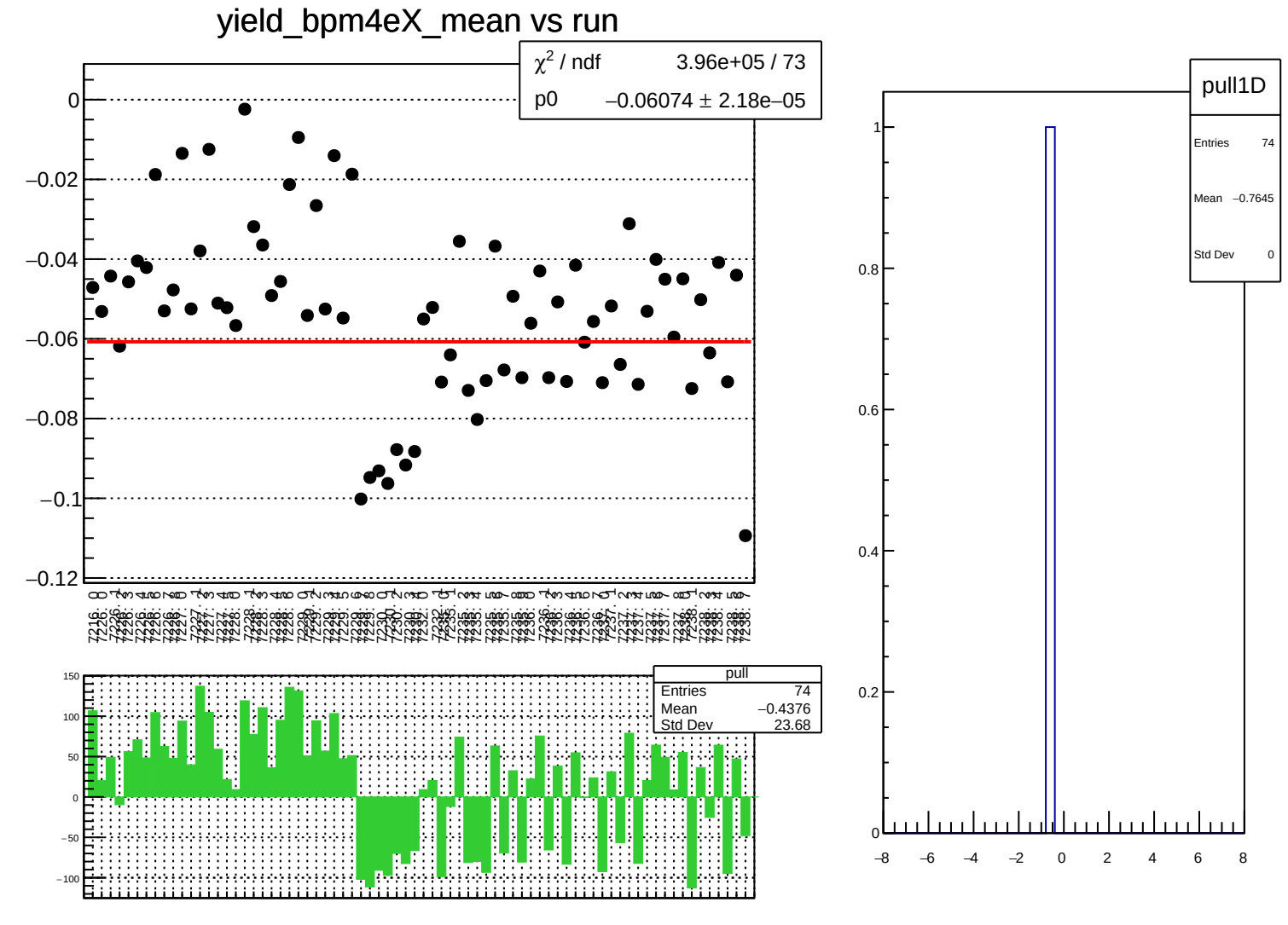

pull1D
Entries 74
Mean 3.298
Std Dev 4.199
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

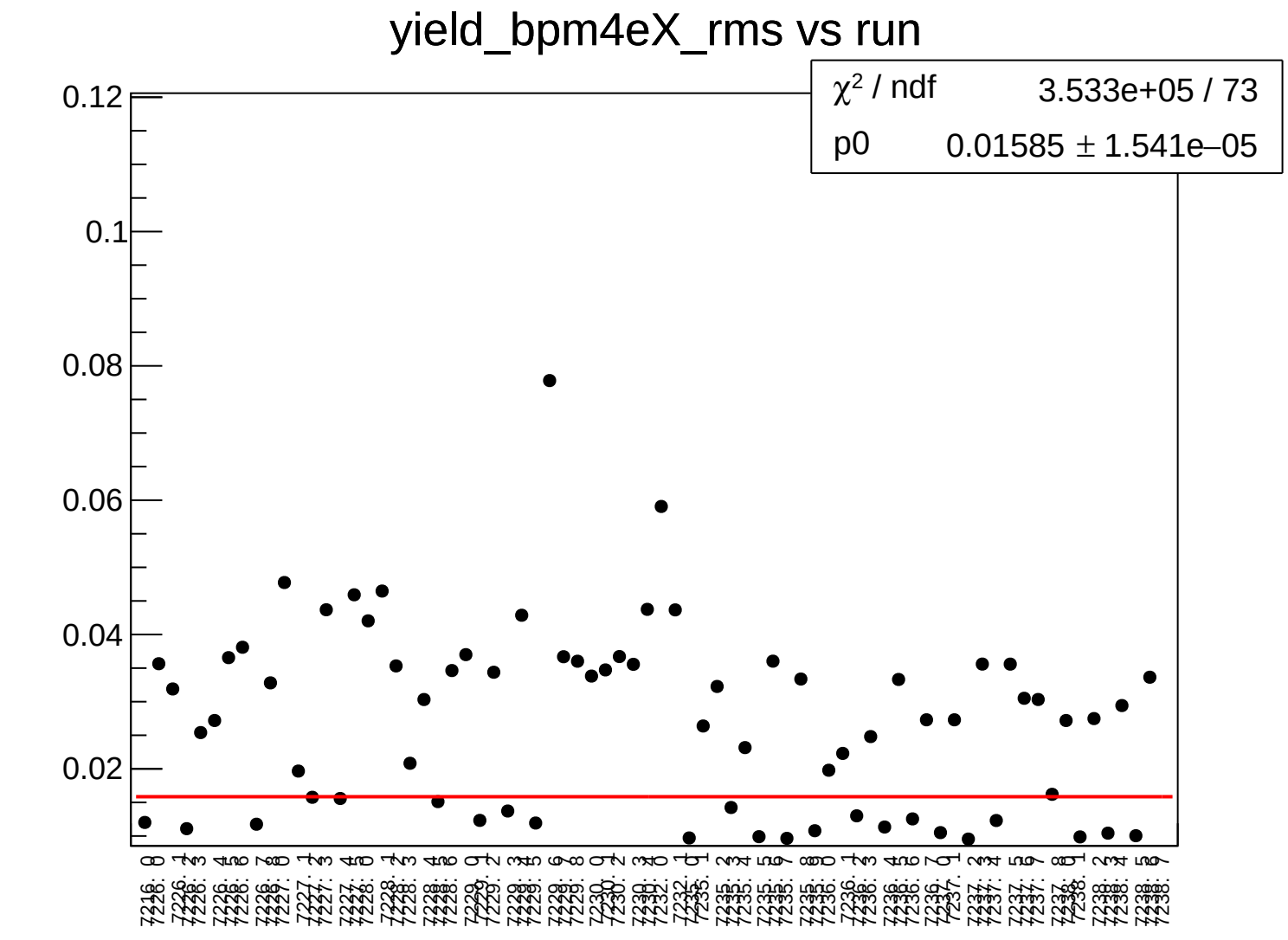

yield_bpm4aX_rms vs run
χ² / ndf 3.615e+05 / 73
p0 0.01707 ± 1.667e–05
0.12
0.1
0.08
0.06
0.04
0.02

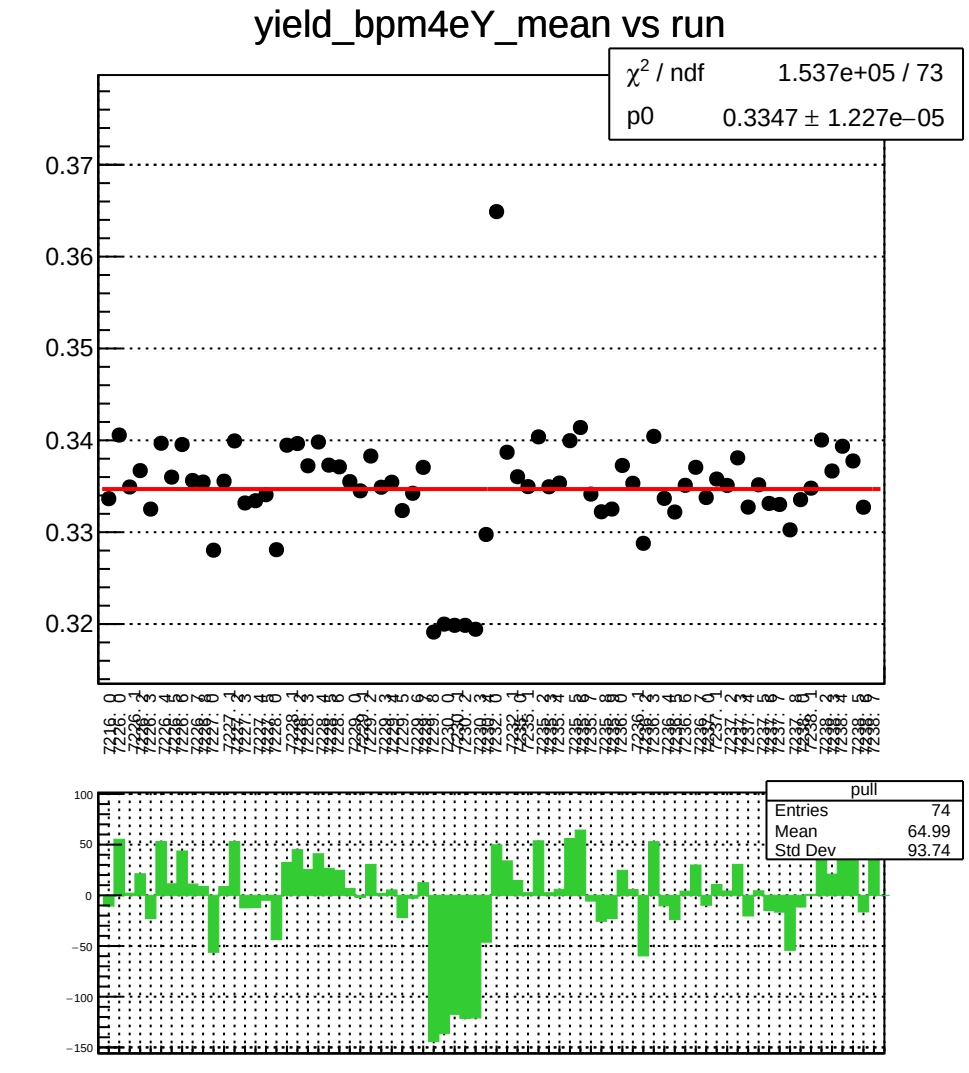

yield_bpm4aY_mean vs run
χ² / ndf 1.354e+05 / 73
p0 0.6269 ± 1.417e−05
pull
Entries 74
Mean 52.11
Std Dev 36.84

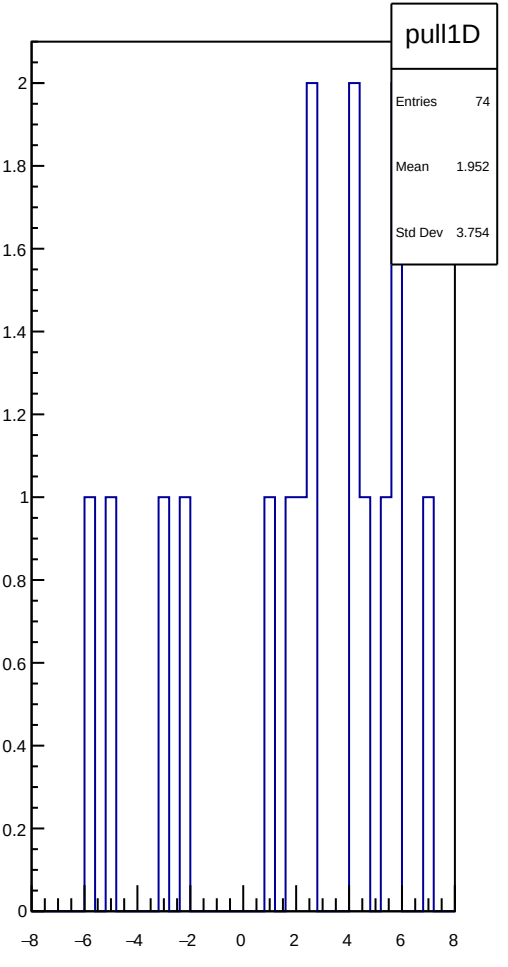

pull1D
Entries 74
Mean −0.1857
Std Dev 5.324

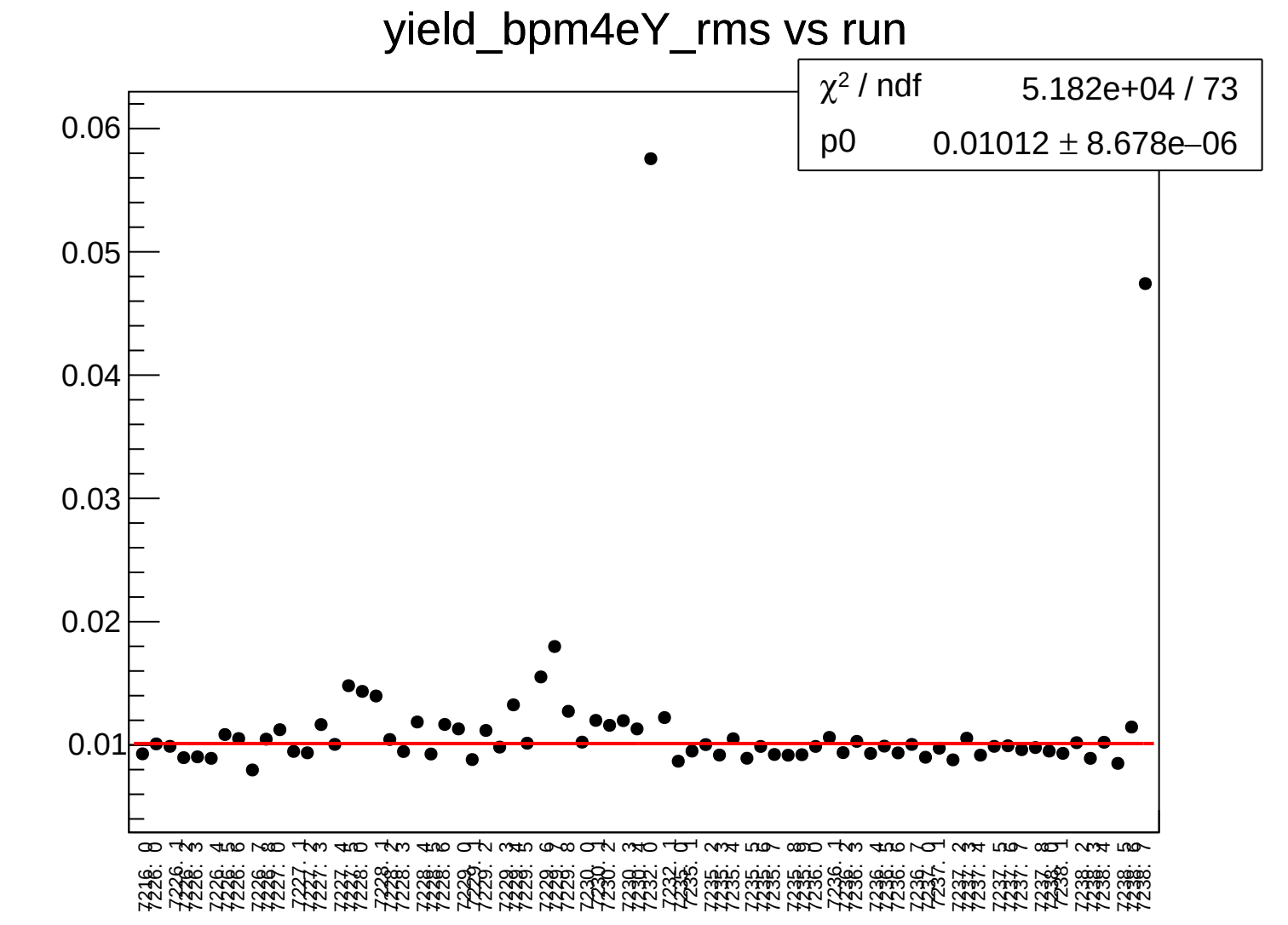

yield_bpm4aY_rms vs run
χ² / ndf 4.248e+04 / 73
p0 0.01172 ± 1.002e−05
0.1
0.08
0.06
0.04
0.02

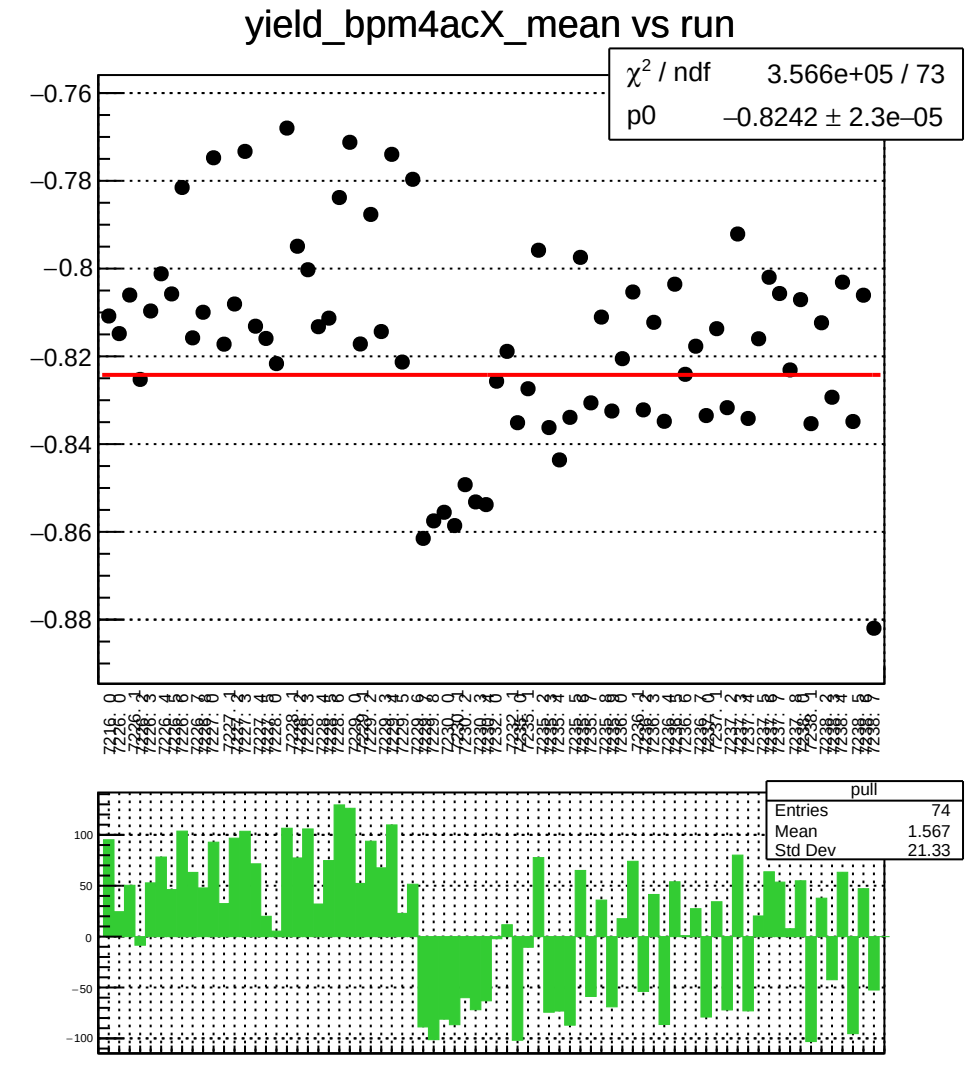

yield_bpm4eX_mean vs run
χ² / ndf 3.96e+05 / 73
p0 −0.06074 ± 2.18e−05
pull
Entries 74
Mean −0.4376
Std Dev 23.68
pull1D
Entries 74
Mean −0.7645
Std Dev 0

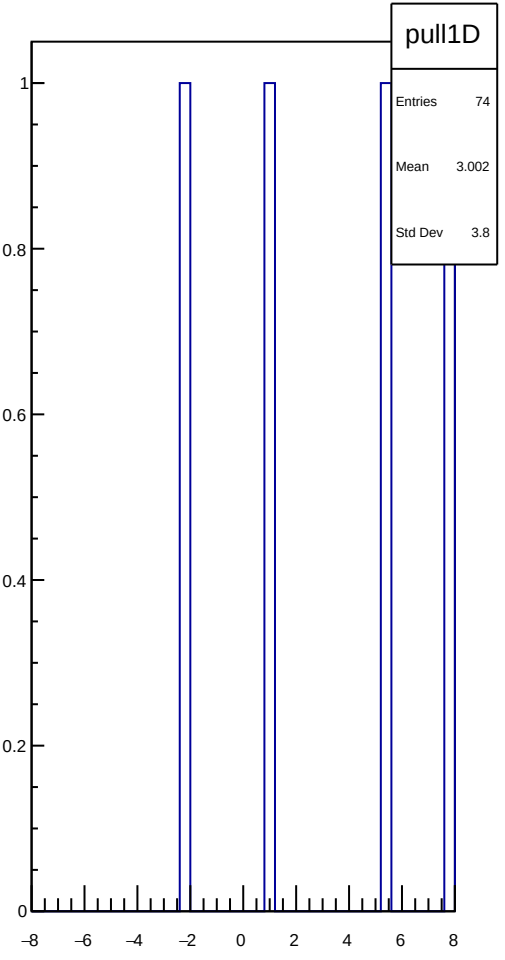

yield_bpm4eX_rms vs run
χ² / ndf 3.533e+05 / 73
p0 0.01585 ± 1.541e−05
0.12
0.1
0.08
0.06
0.04
0.02

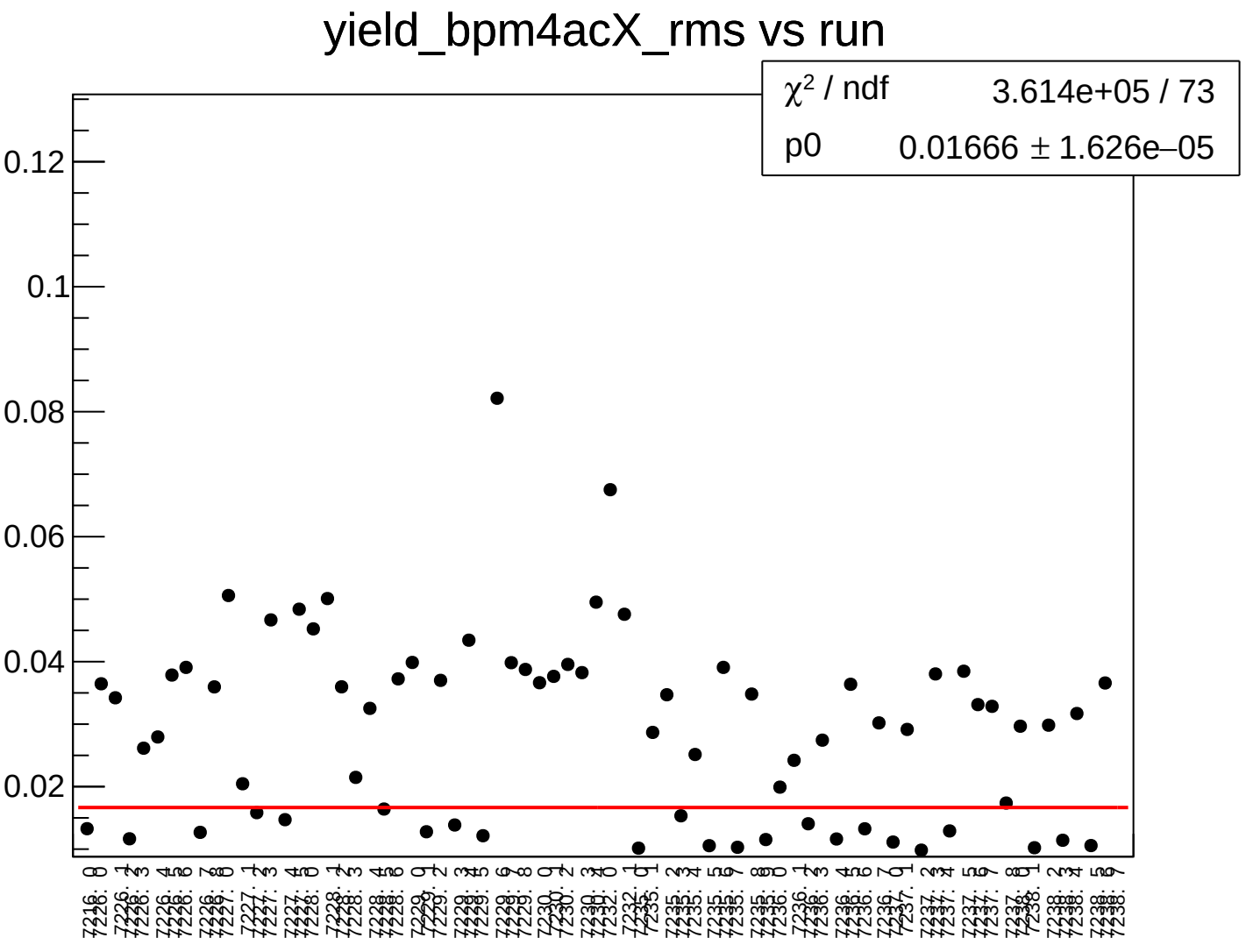

yield_bpm4eY_mean vs run
χ² / ndf 1.537e+05 / 73
p0 0.3347 ± 1.227e−05
0.37
0.36
0.35
0.34
0.33
0.32
pull
Entries 74
Mean 64.99
Std Dev 93.74
100
50
0
−50
−100
−150

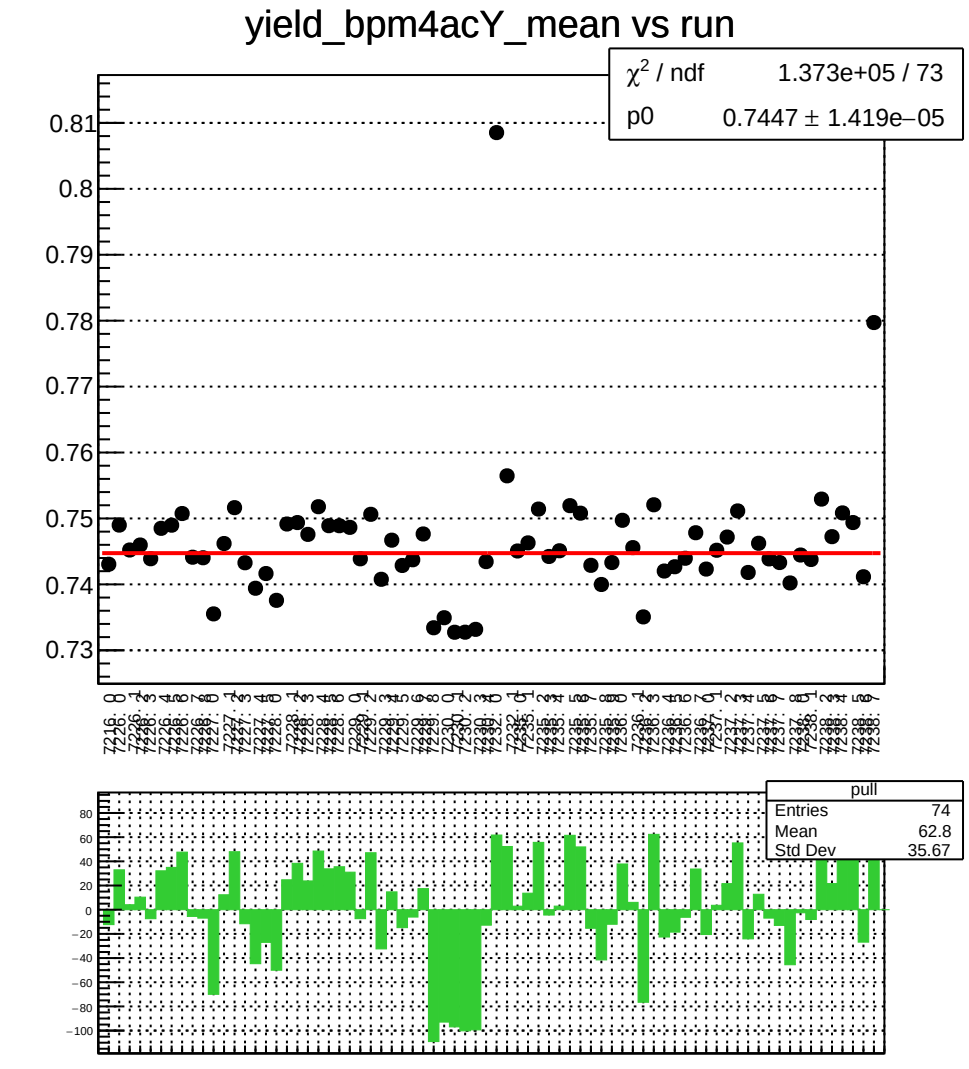

pull1D
Entries 74
Mean 1.952
Std Dev 3.754
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

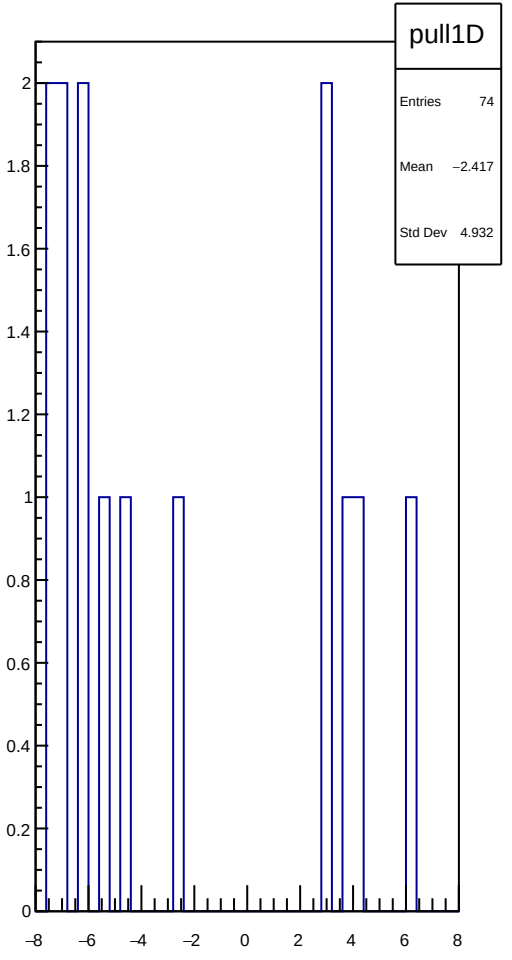

yield_bpm4eY_rms vs run
χ² / ndf 5.182e+04 / 73
p0 0.01012 ± 8.678e–06
0.06
0.05
0.04
0.03
0.02
0.01

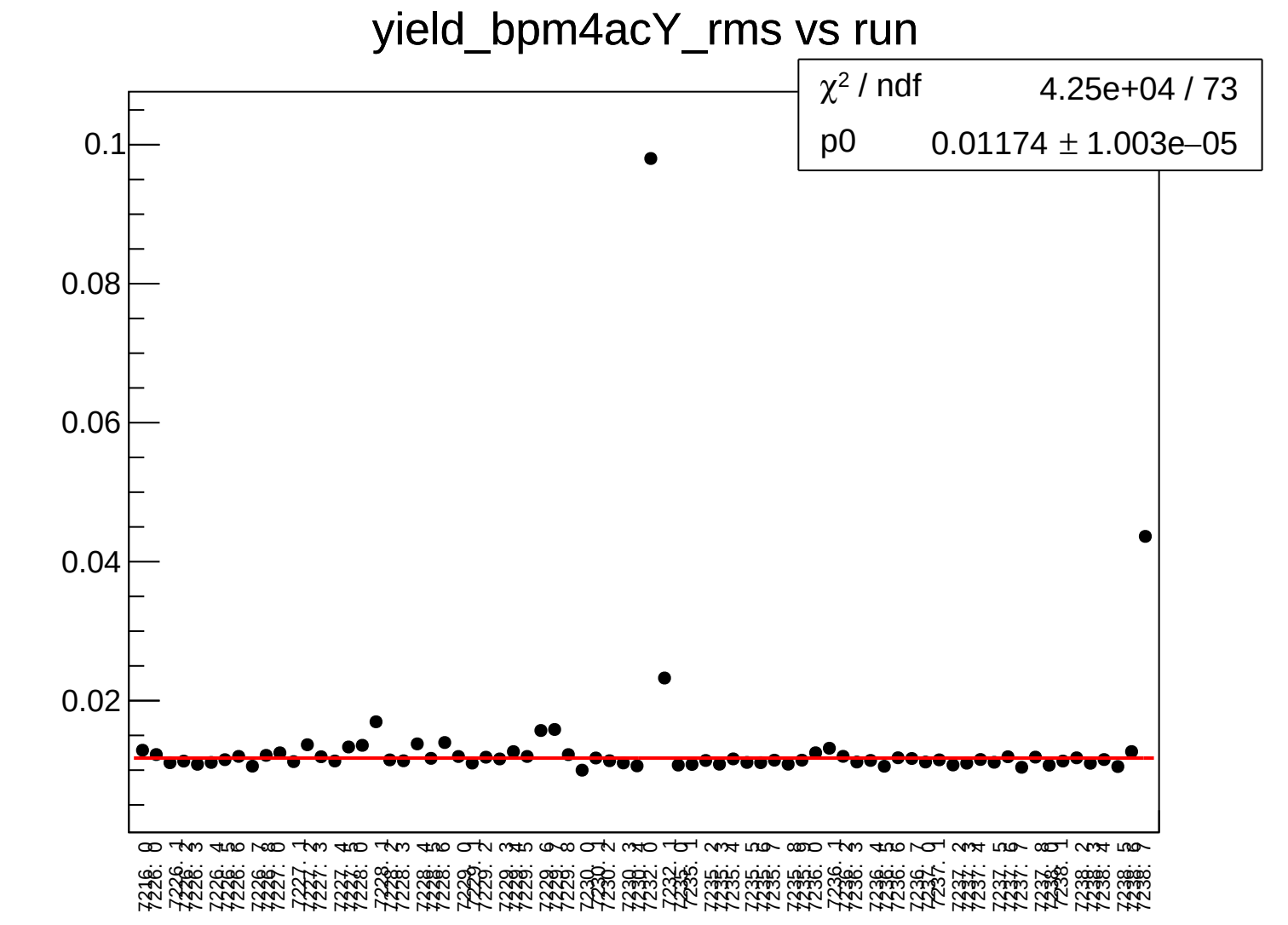

yield_bpm4acX_mean vs run
χ² / ndf 3.566e+05 / 73
p0 –0.8242 ± 2.3e–05
–0.76
–0.78
–0.8
–0.82
–0.84
–0.86
–0.88
pull
Entries 74
Mean 1.567
Std Dev 21.33
100
50
0
–50
–100

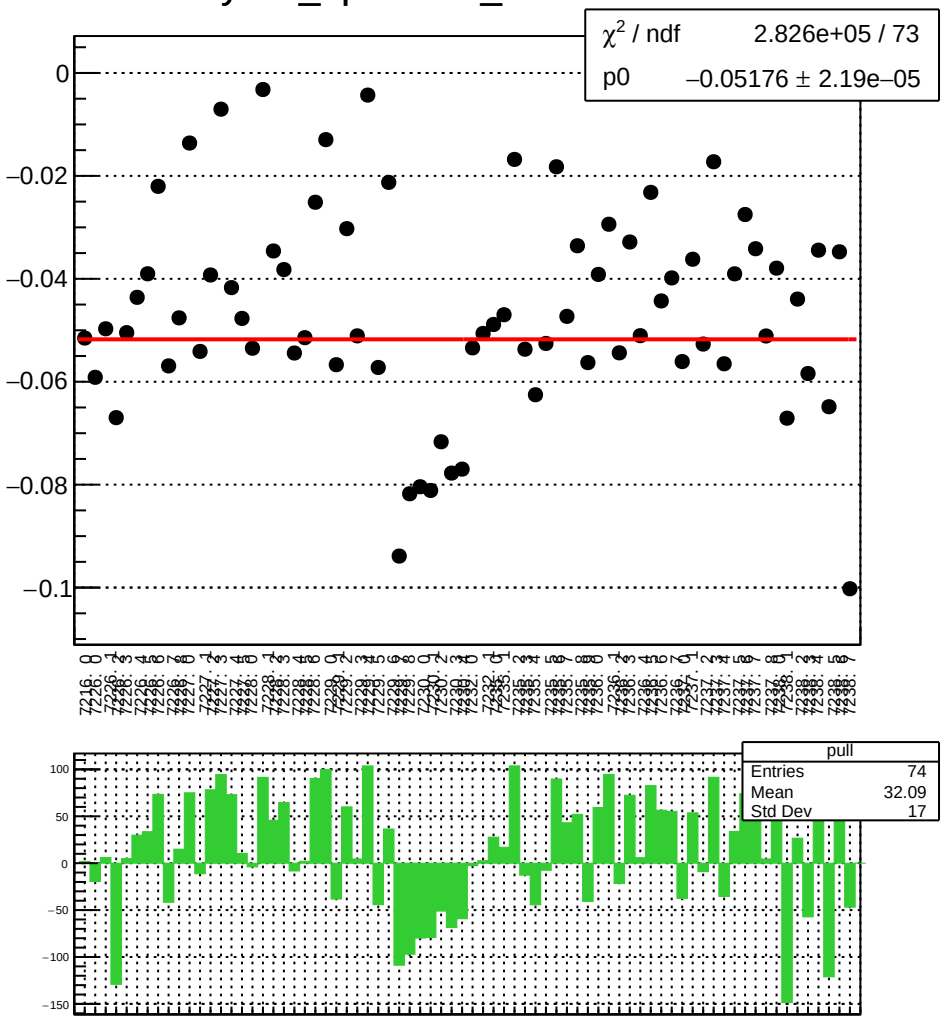

pull1D
Entries 74
Mean 3.002
Std Dev 3.8
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

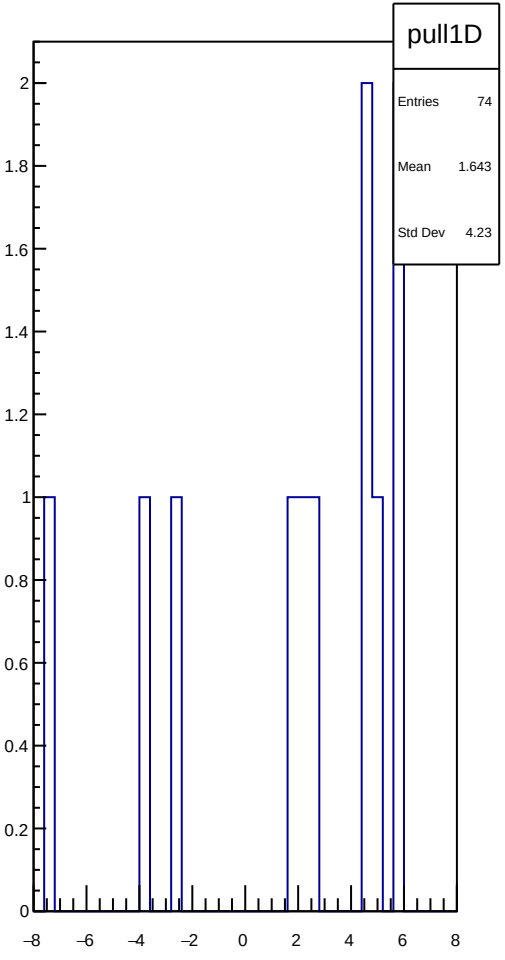

yield_bpm4acX_rms vs run
χ² / ndf 3.614e+05 / 73
p0 0.01666 ± 1.626e−05
0.12
0.1
0.08
0.06
0.04
0.02

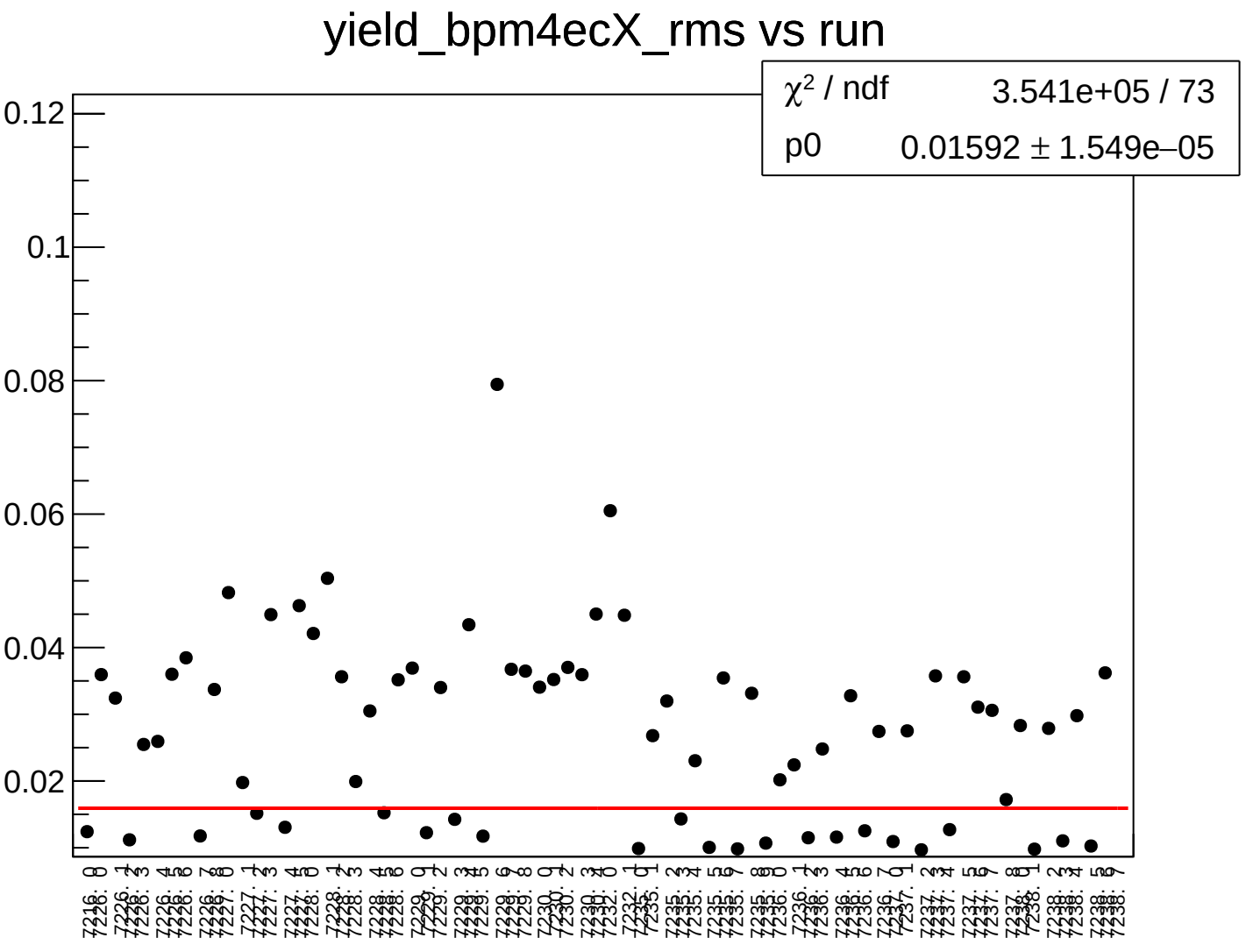

yield_bpm4acY_mean vs run
χ² / ndf 1.373e+05 / 73
p0 0.7447 ± 1.419e−05
0.81
0.8
0.79
0.78
0.77
0.76
0.75
0.74
0.73
pull
Entries 74
Mean 62.8
Std Dev 35.67
80
60
40
20
0
−20
−40
−60
−80
−100

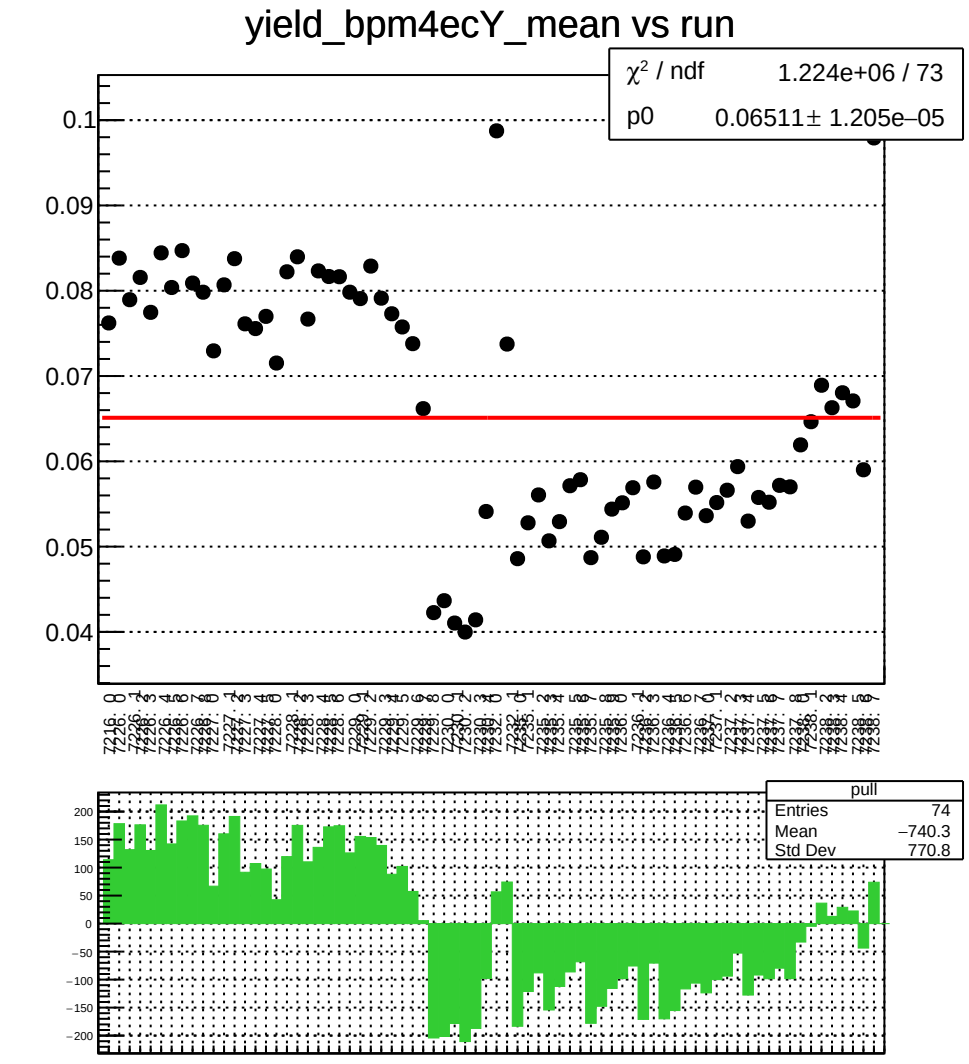

pull1D
Entries 74
Mean −2.417
Std Dev 4.932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

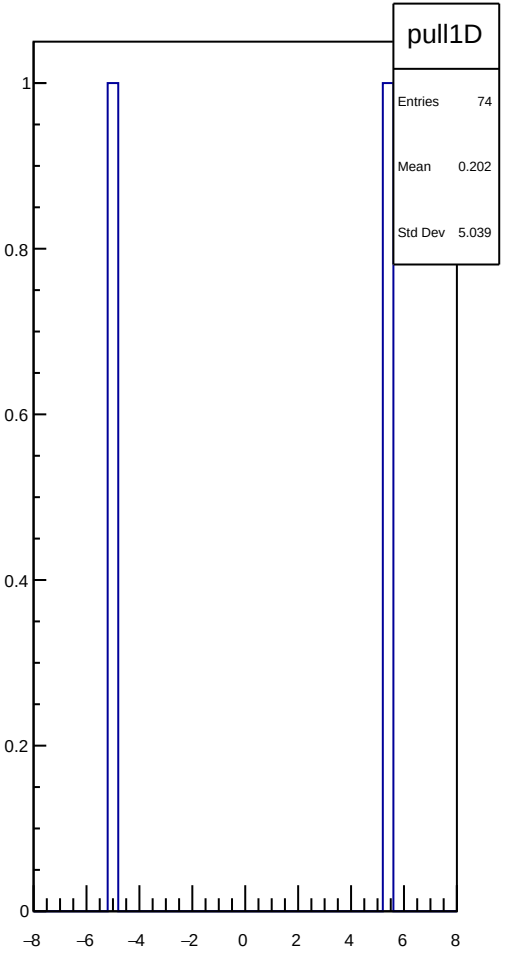

yield_bpm4acY_rms vs run
χ² / ndf 4.25e+04 / 73
p0 0.01174 ± 1.003e−05
0.1
0.08
0.06
0.04
0.02

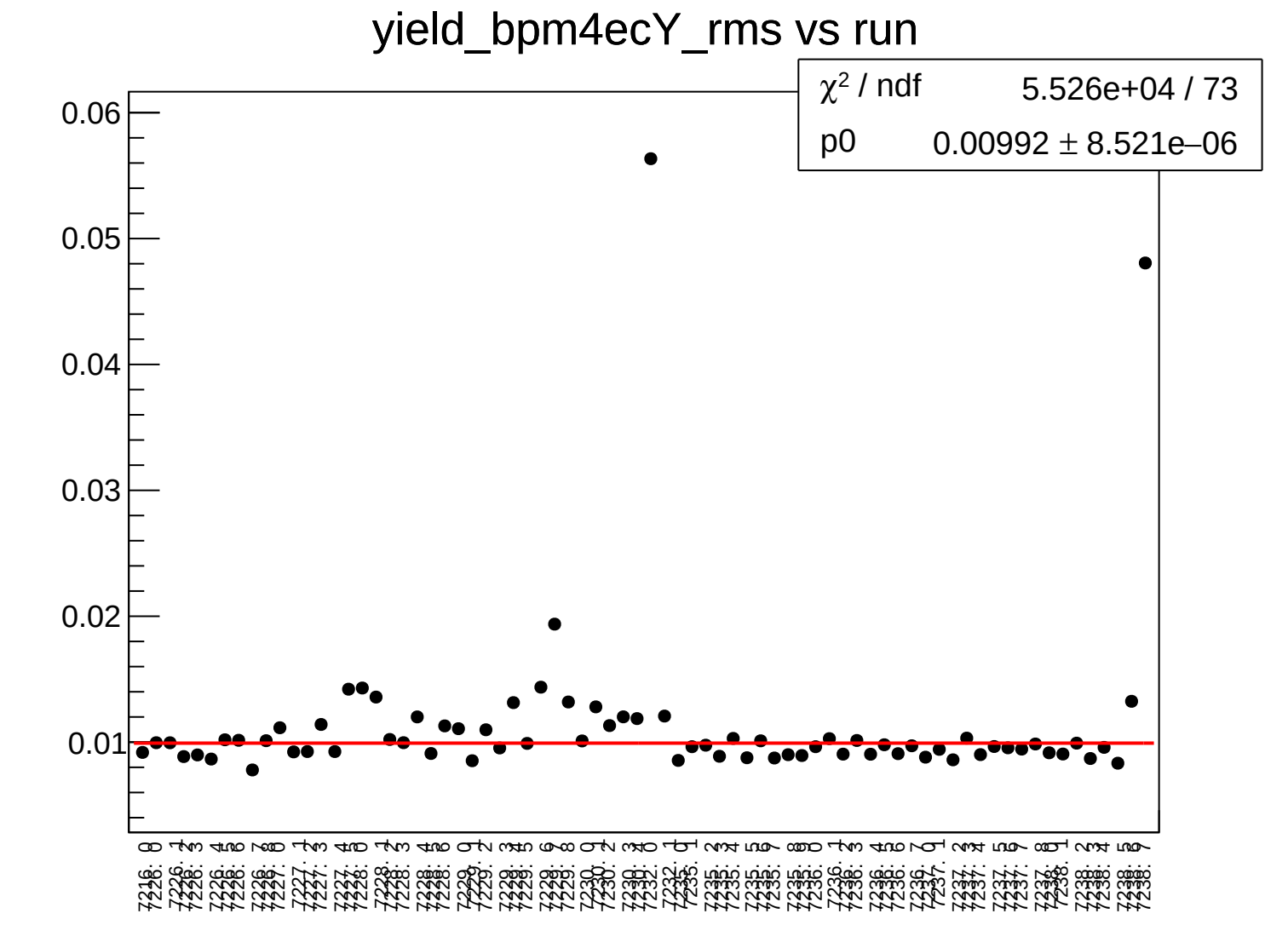

yield_bpm4ecX_mean vs run
χ² / ndf 2.826e+05 / 73
p0 −0.05176 ± 2.19e−05
pull
Entries 74
Mean 32.09
Std Dev 17

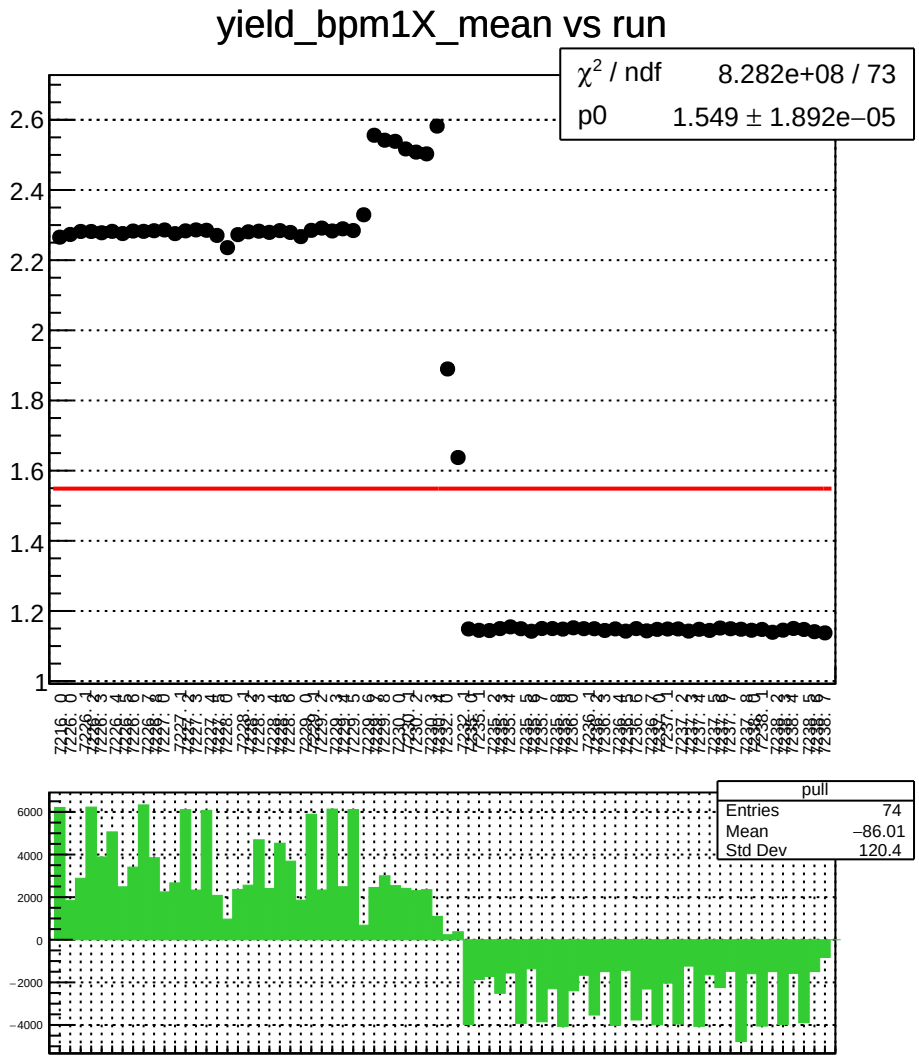

pull1D
Entries 74
Mean 1.643
Std Dev 4.23

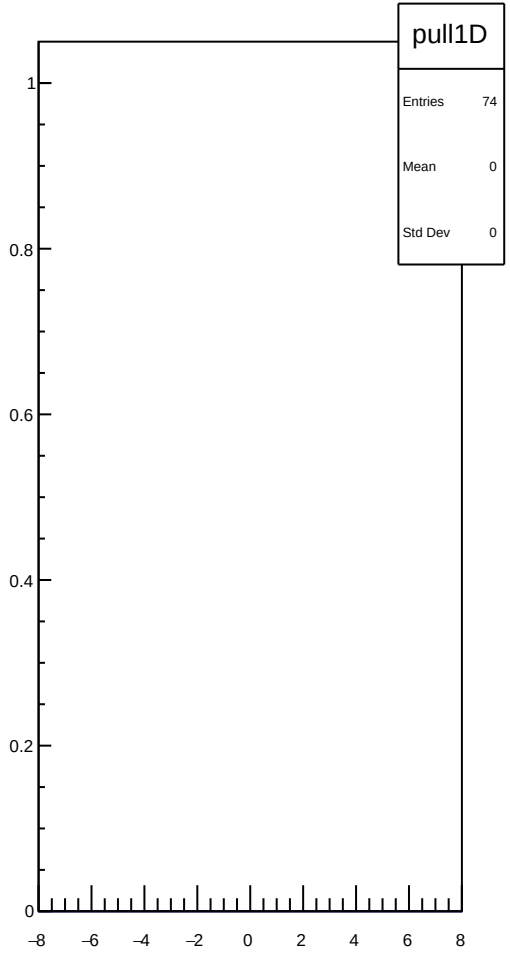

yield_bpm4ecX_rms vs run
χ² / ndf 3.541e+05 / 73
p0 0.01592 ± 1.549e−05
0.12
0.1
0.08
0.06
0.04
0.02

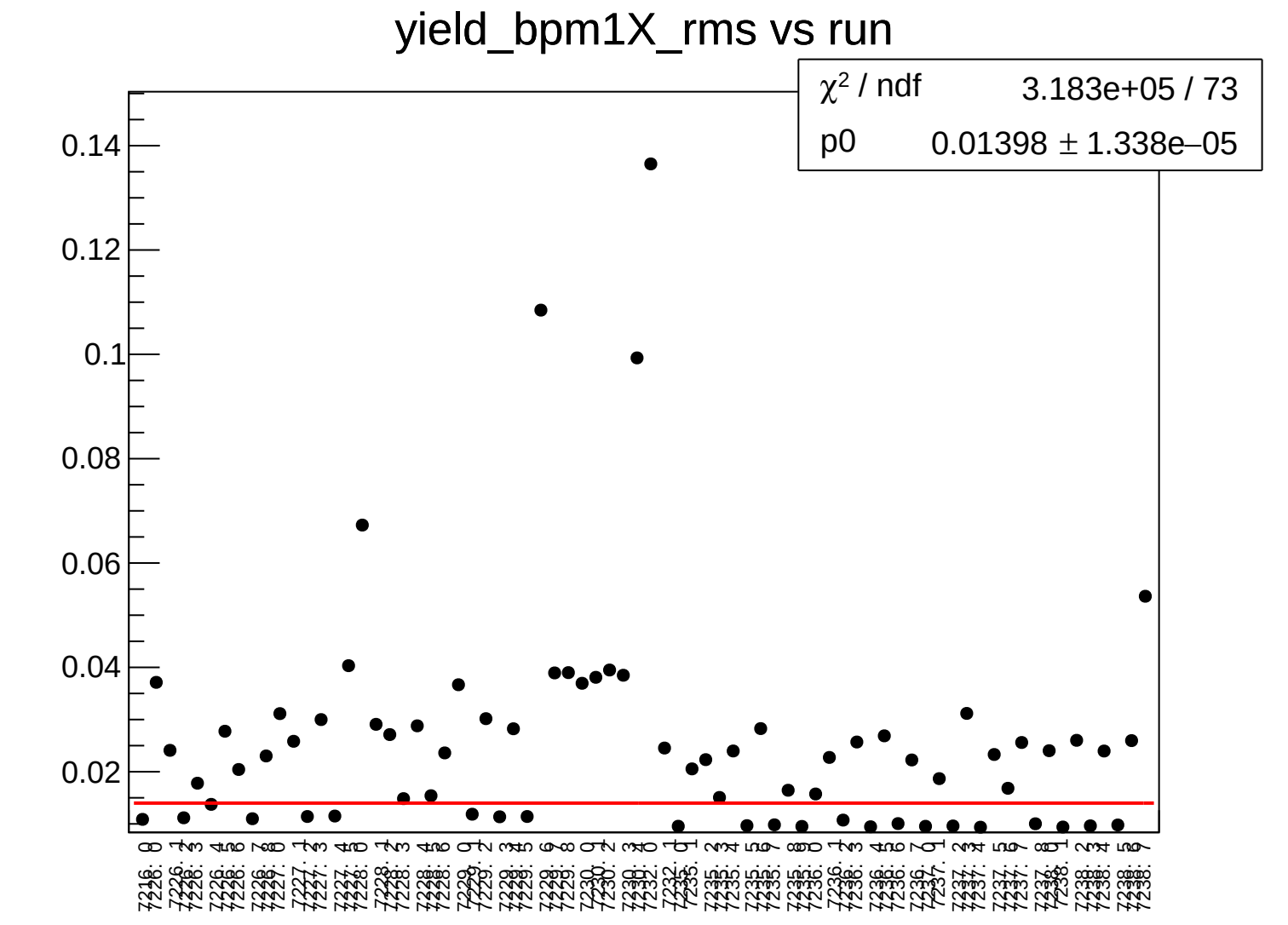

yield_bpm4ecY_mean vs run
χ² / ndf 1.224e+06 / 73
p0 0.06511± 1.205e–05
pull
Entries 74
Mean –740.3
Std Dev 770.8

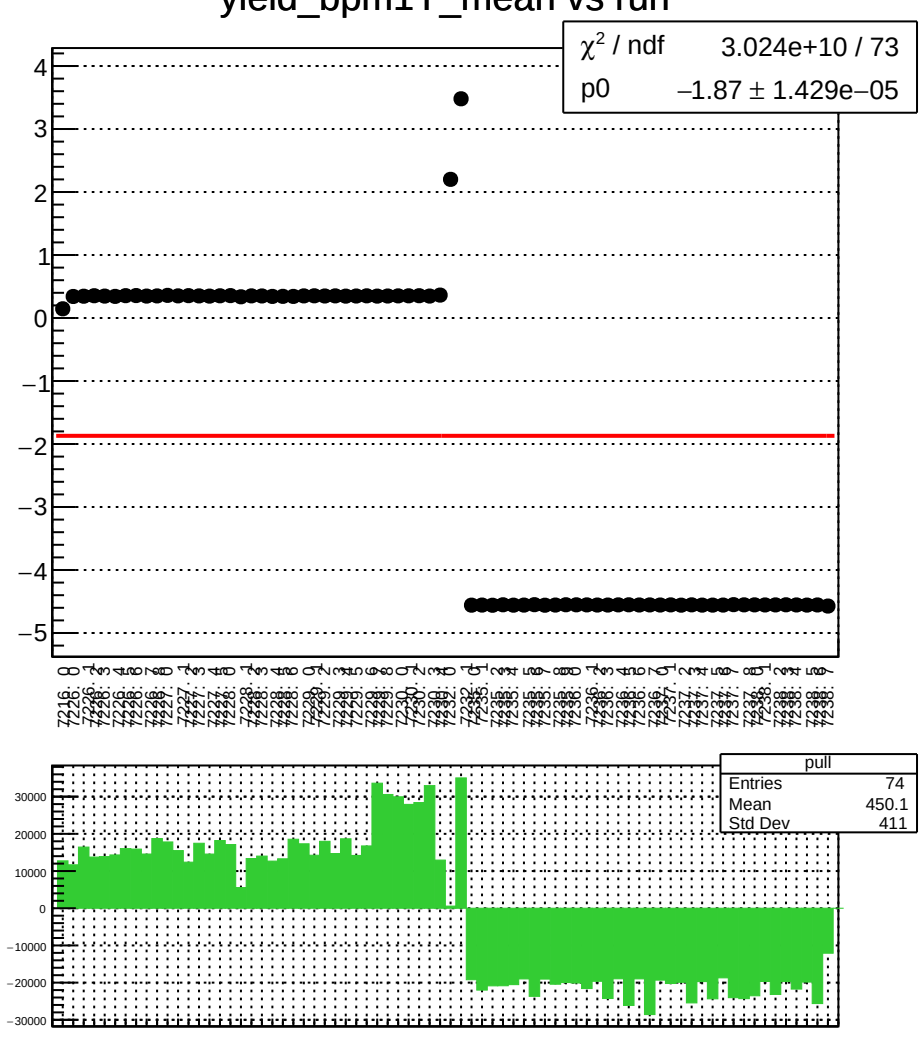

pull1D
Entries 74
Mean 0.202
Std Dev 5.039

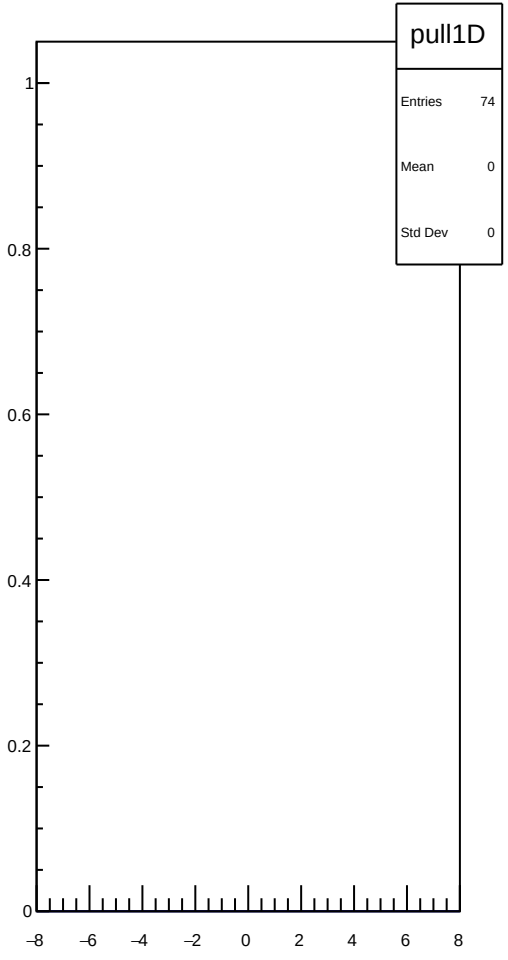

yield_bpm4ecY_rms vs run
χ² / ndf 5.526e+04 / 73
p0 0.00992 ± 8.521e–06
0.06
0.05
0.04
0.03
0.02
0.01

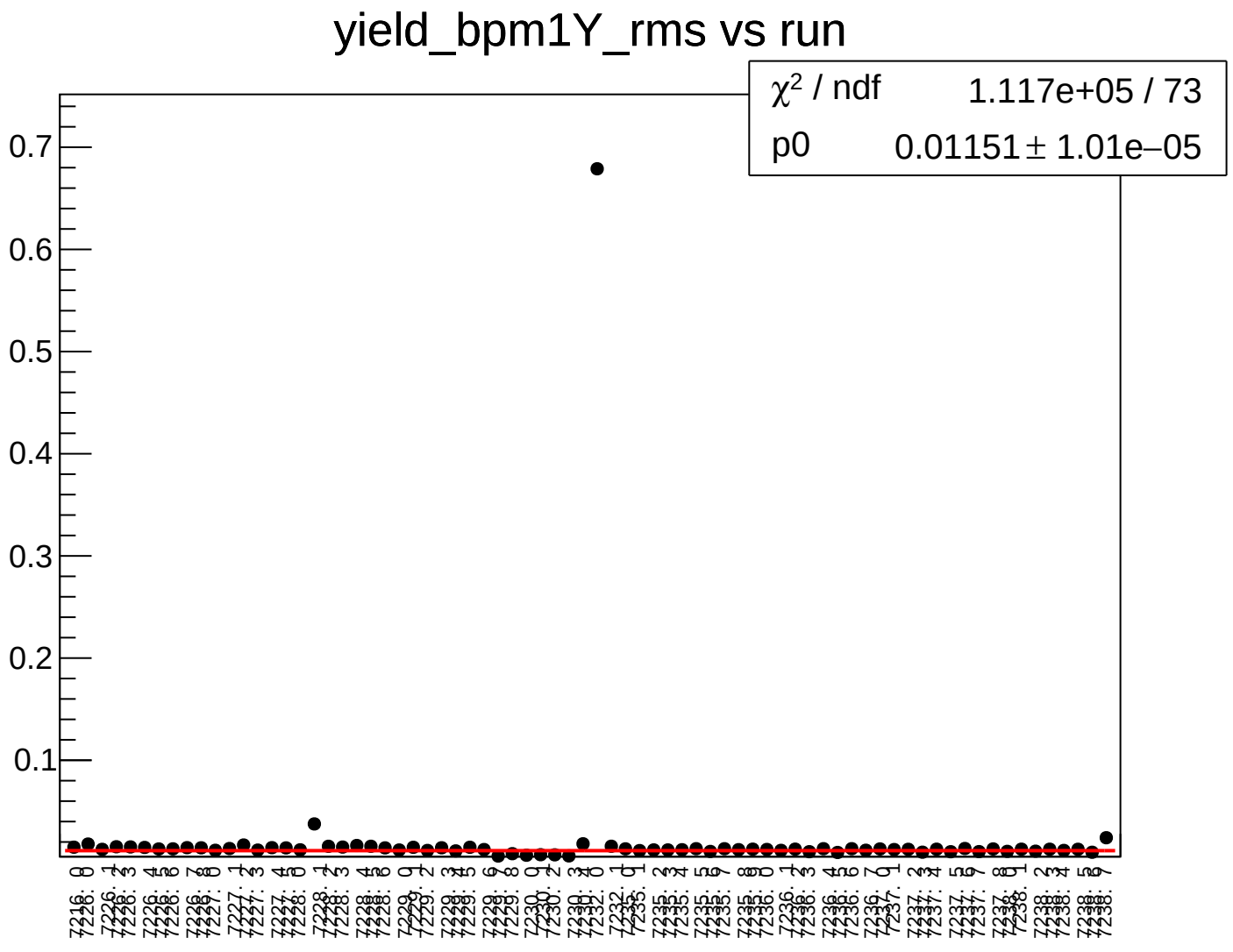

yield_bpm1X_mean vs run
χ² / ndf 8.282e+08 / 73
p0 1.549 ± 1.892e−05
pull
Entries 74
Mean −86.01
Std Dev 120.4

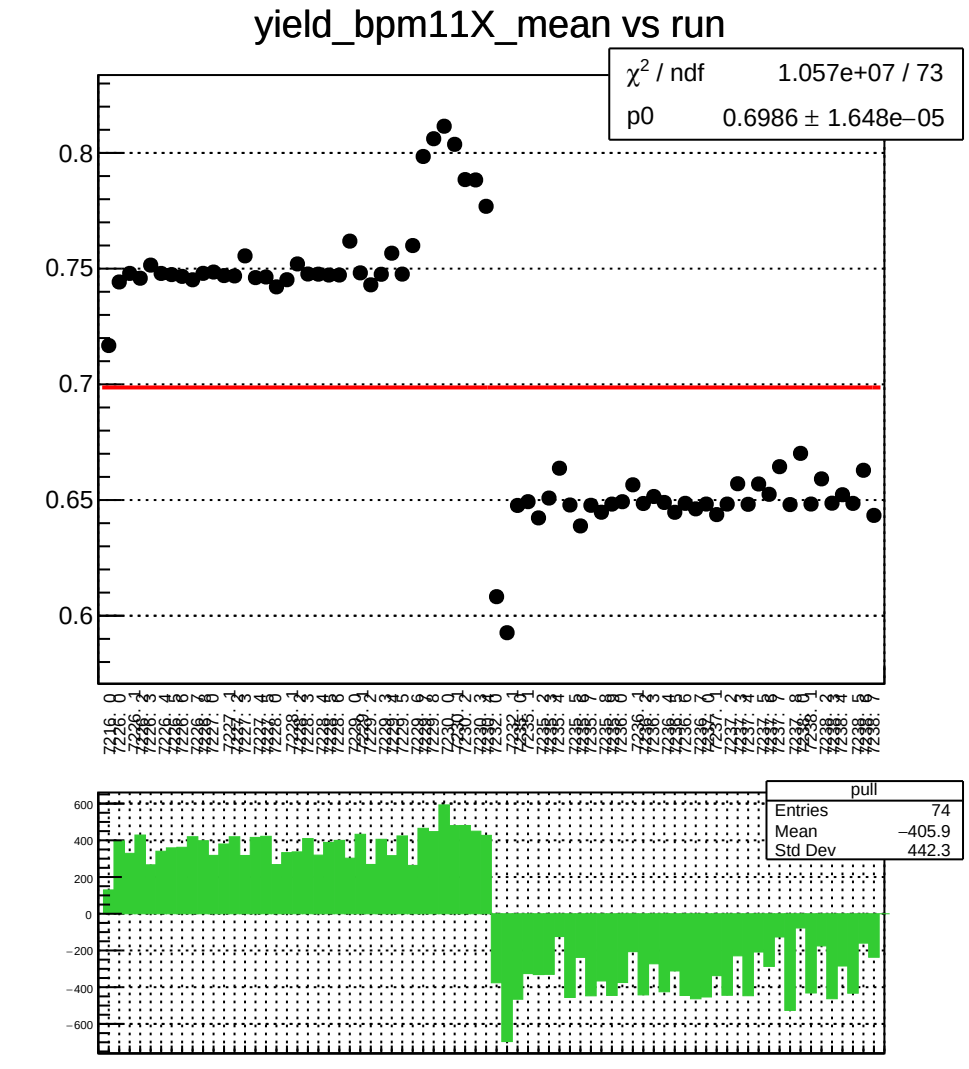

pull1D
Entries 74
Mean 0
Std Dev 0

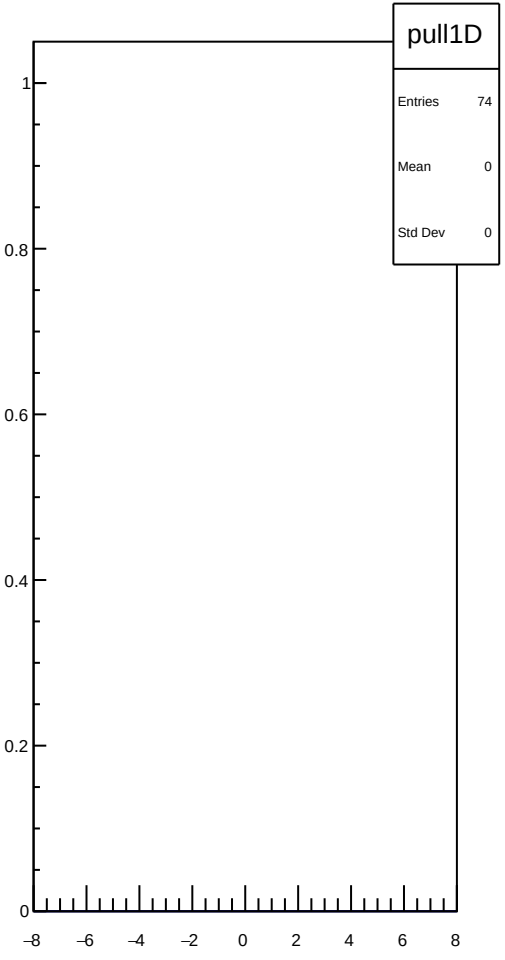

yield_bpm1X_rms vs run
χ² / ndf 3.183e+05 / 73
p0 0.01398 ± 1.338e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

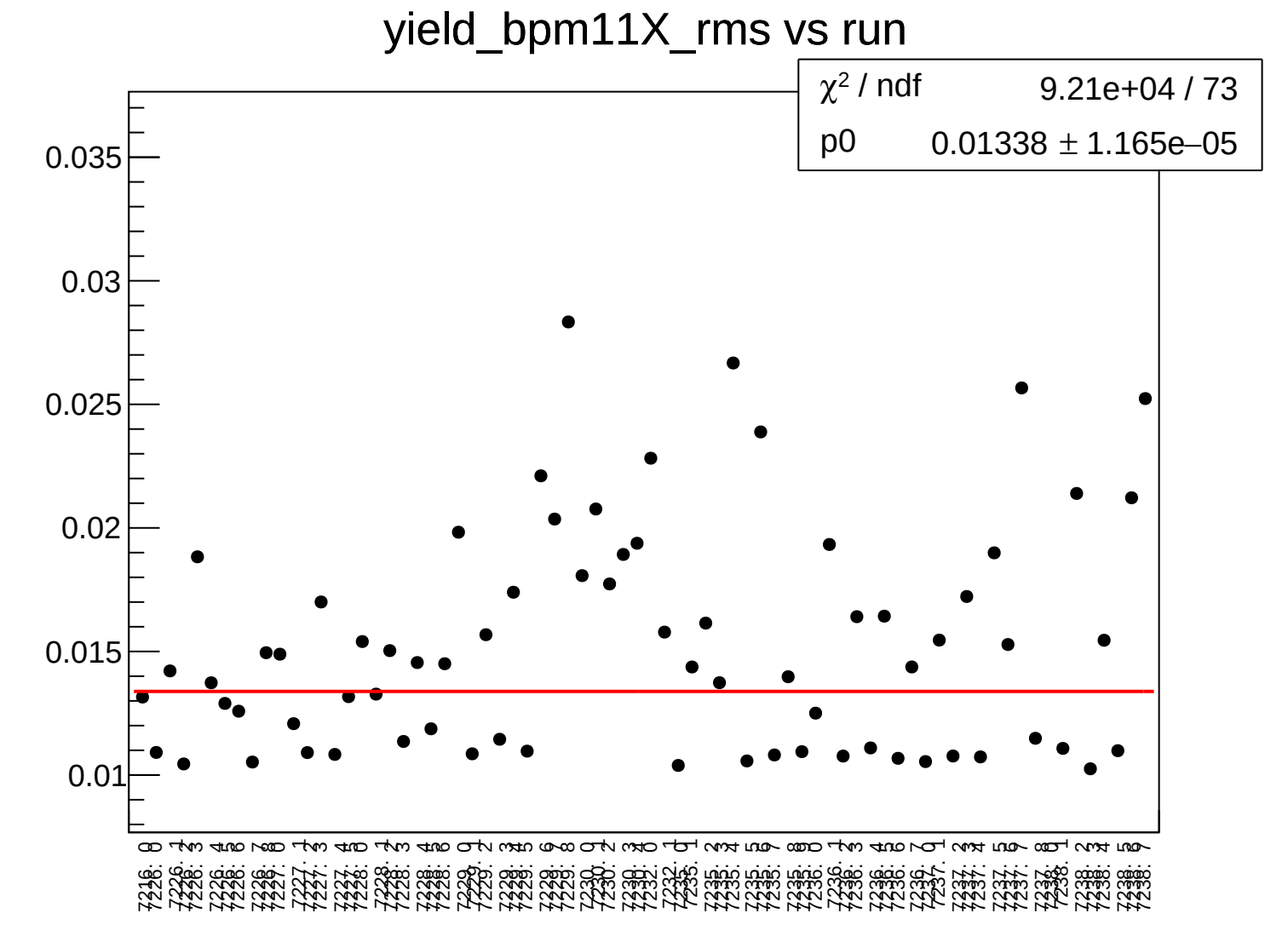

yield_bpm1Y_mean vs run
χ² / ndf 3.024e+10 / 73
p0 −1.87 ± 1.429e−05
pull
Entries 74
Mean 450.1
Std Dev 411

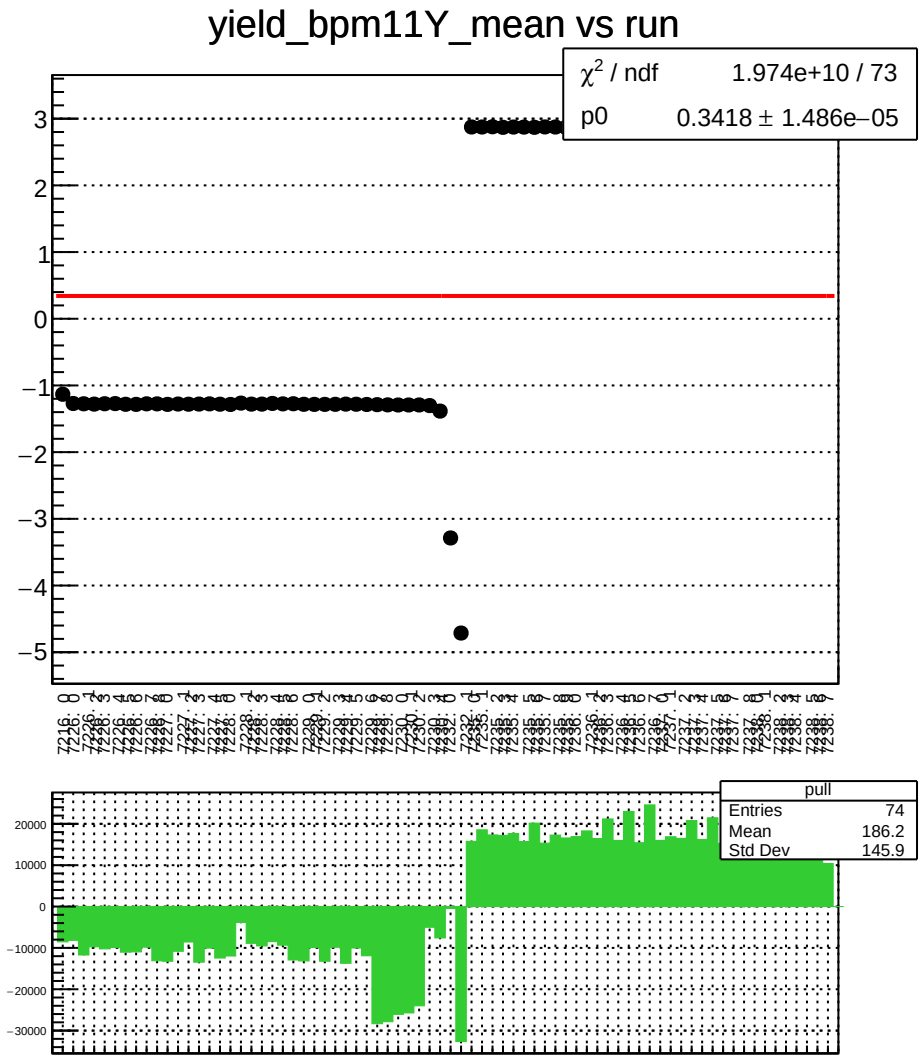

pull1D
Entries 74
Mean 0
Std Dev 0

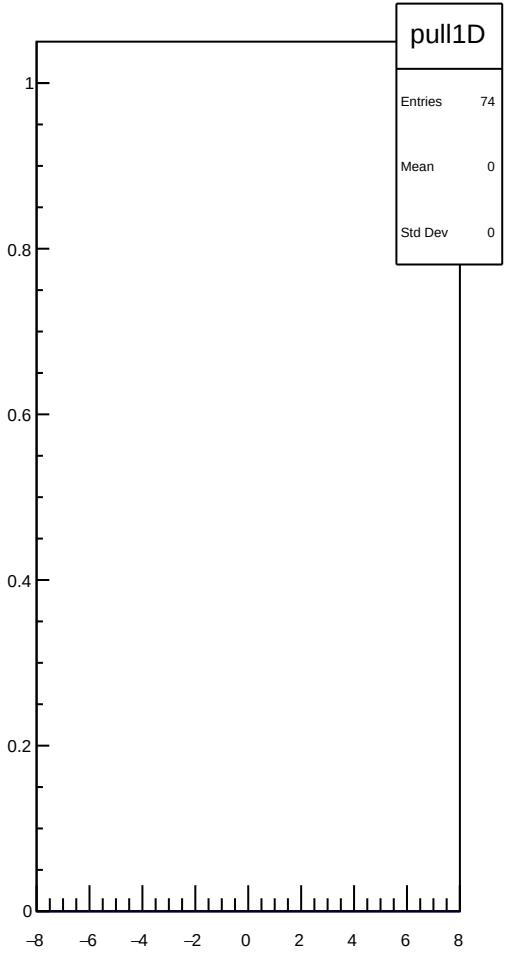

yield_bpm1Y_rms vs run
χ² / ndf 1.117e+05 / 73
p0 0.01151 ± 1.01e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

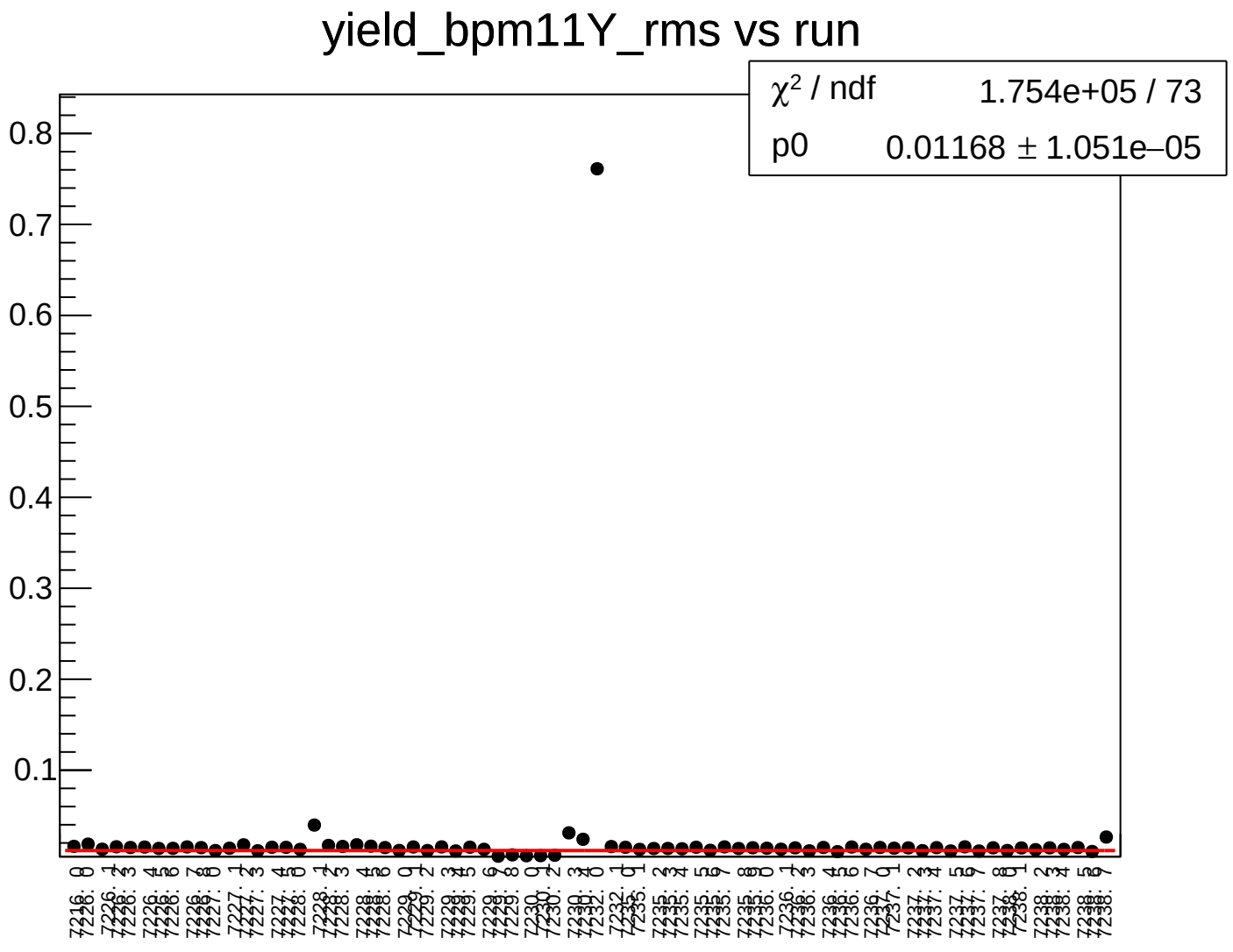

yield_bpm11X_mean vs run
χ² / ndf 1.057e+07 / 73
p0 0.6986 ± 1.648e−05
0.8
0.75
0.7
0.65
0.6
pull
Entries 74
Mean −405.9
Std Dev 442.3
600
400
200
0
−200
−400
−600

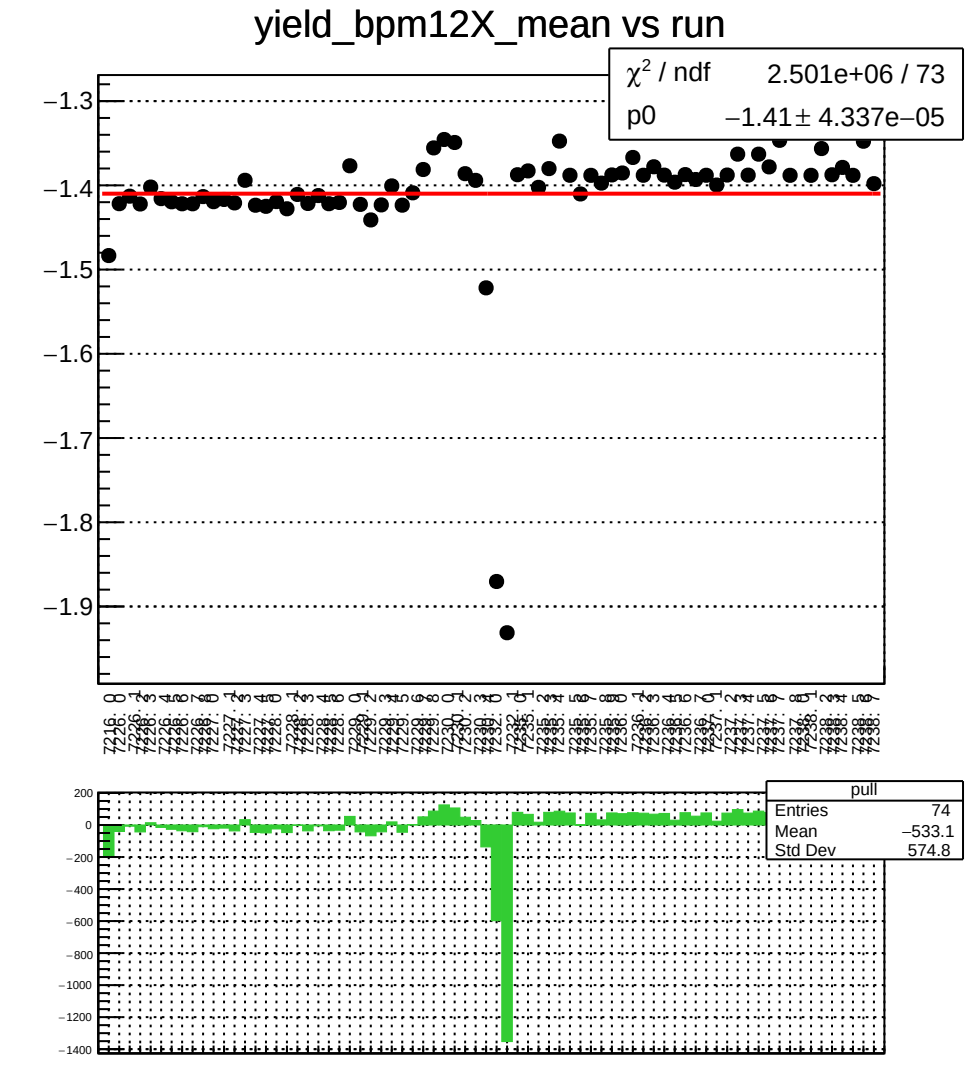

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

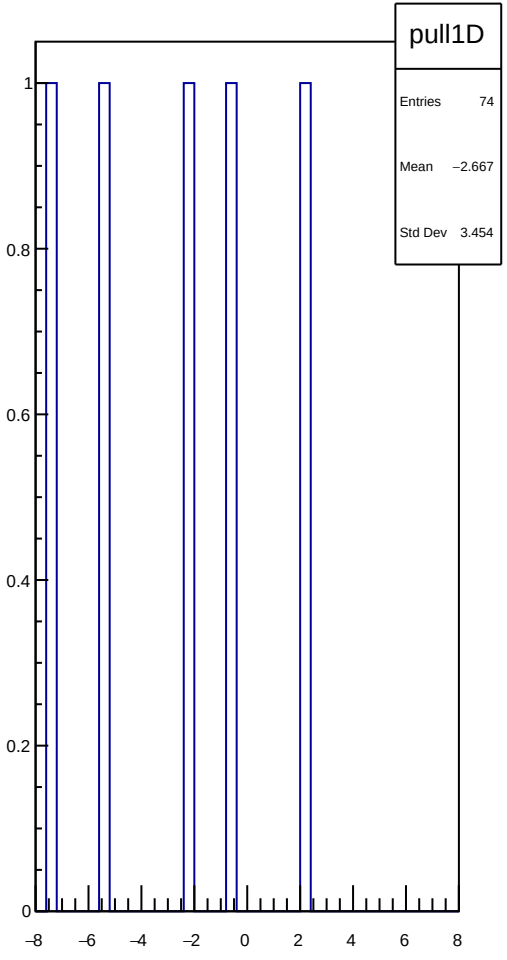

yield_bpm11X_rms vs run
χ² / ndf 9.21e+04 / 73
p0 0.01338 ± 1.165e−05
0.035
0.03
0.025
0.02
0.015
0.01

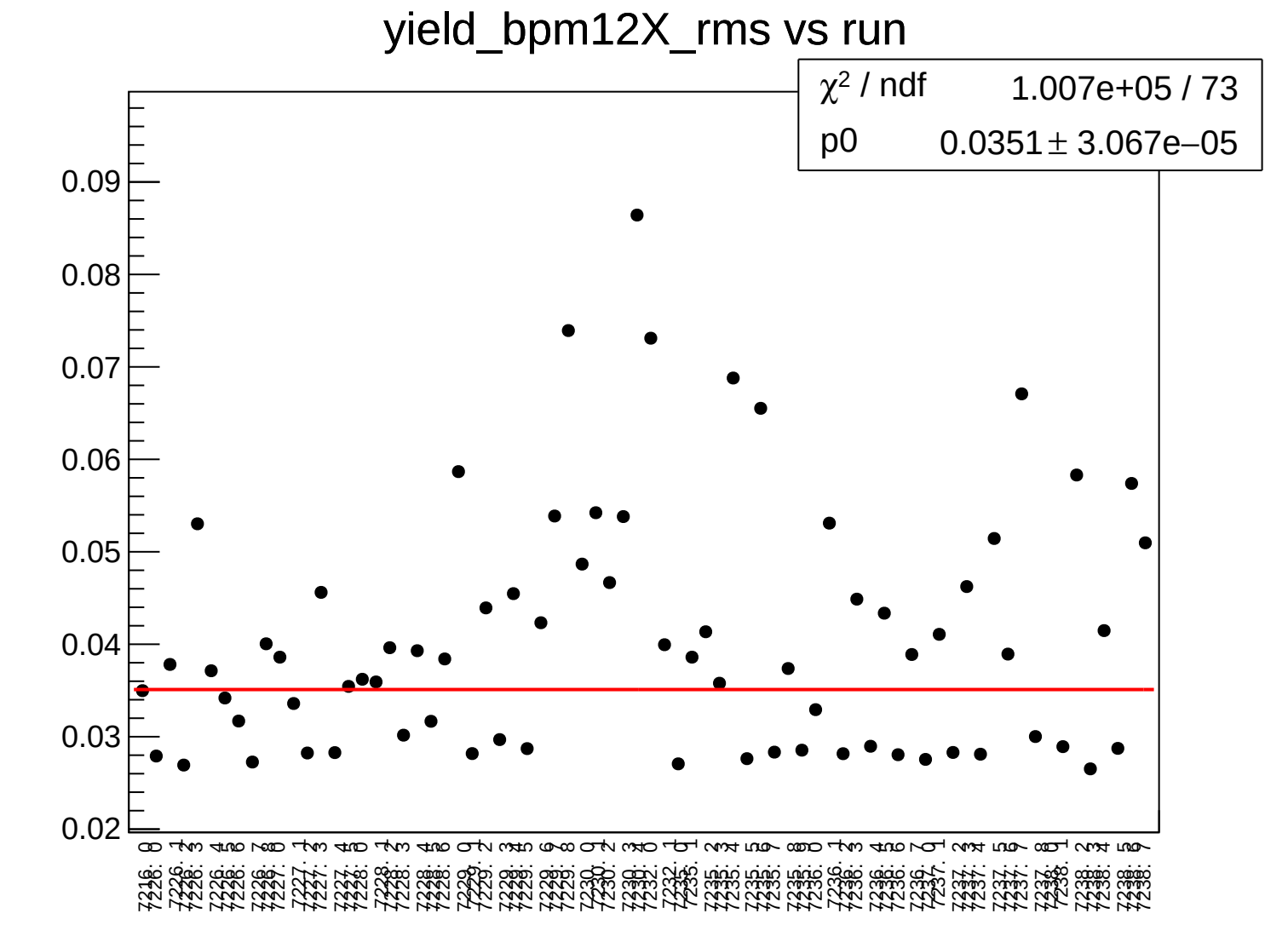

yield_bpm11Y_mean vs run
χ² / ndf 1.974e+10 / 73
p0 0.3418 ± 1.486e−05
pull
Entries 74
Mean 186.2
Std Dev 145.9

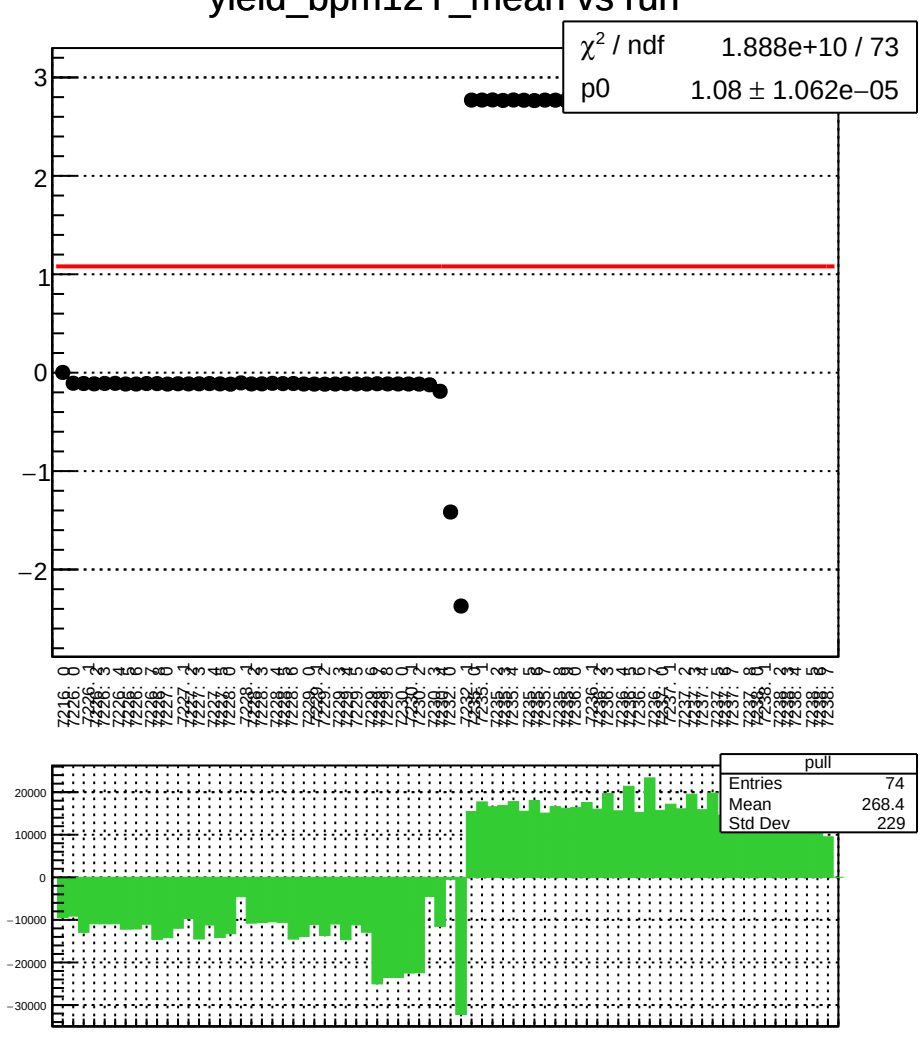

pull1D
Entries 74
Mean 0
Std Dev 0

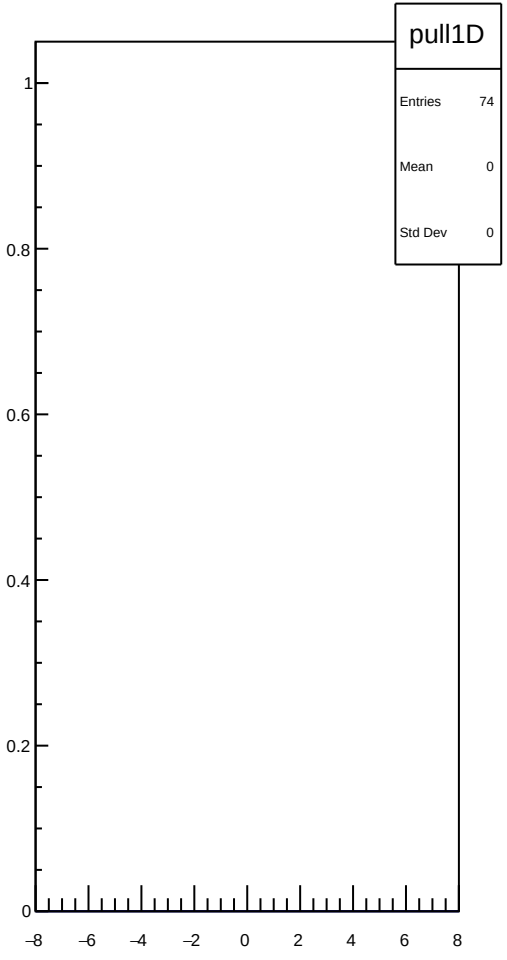

yield_bpm11Y_rms vs run
χ² / ndf 1.754e+05 / 73
p0 0.01168 ± 1.051e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

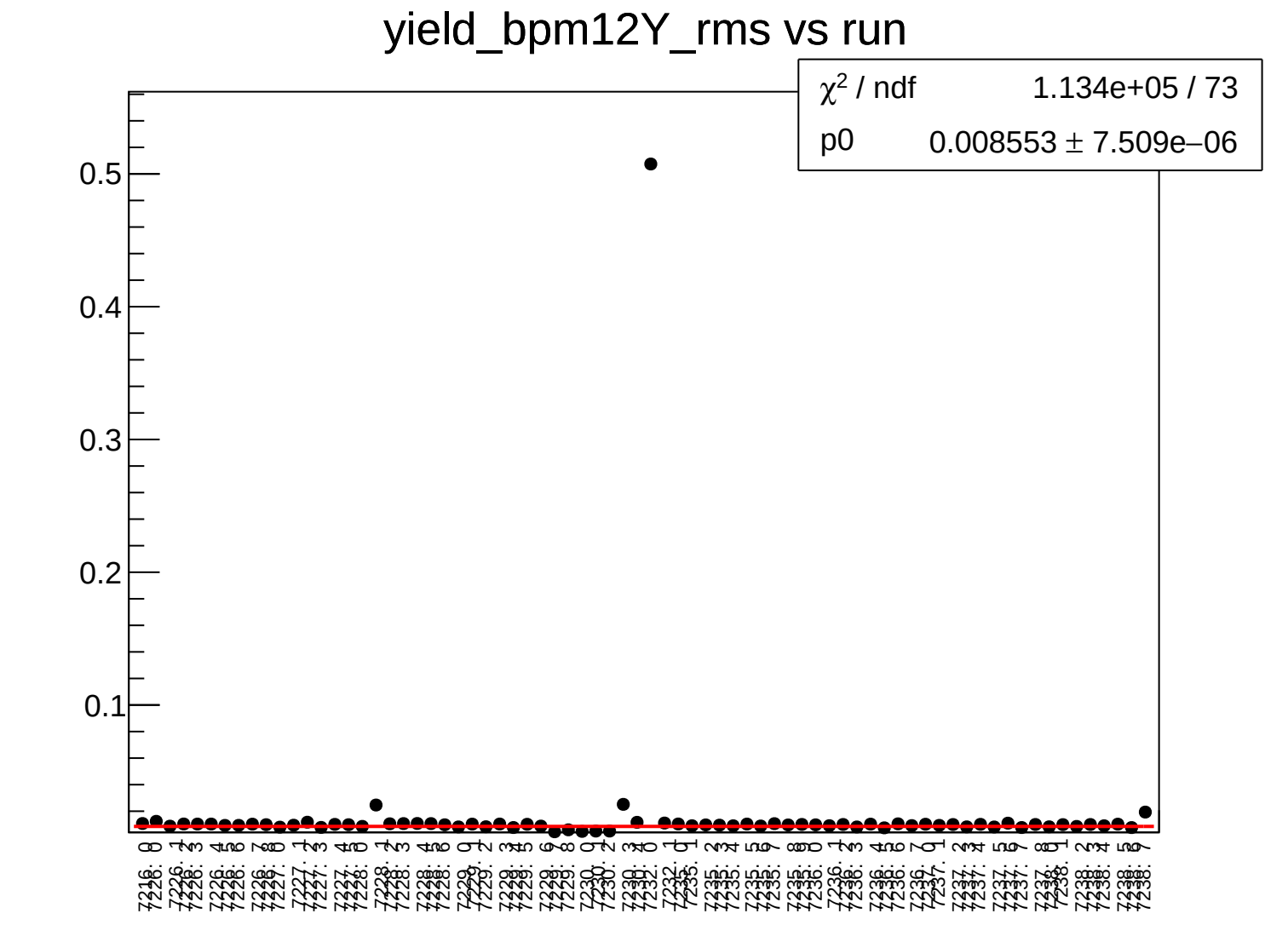

yield_bpm12X_mean vs run
χ² / ndf 2.501e+06 / 73
p0 −1.41 ± 4.337e−05
pull
Entries 74
Mean −533.1
Std Dev 574.8

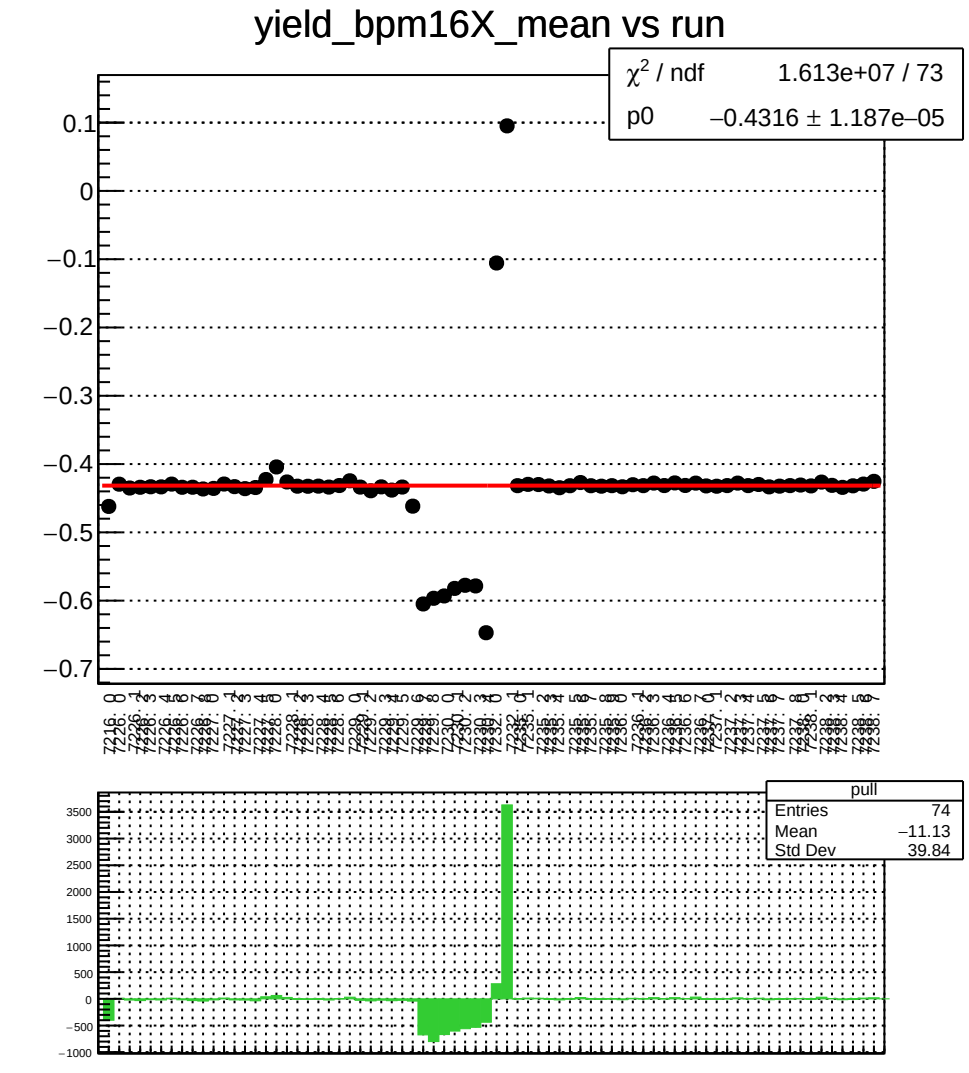

pull1D
Entries 74
Mean −2.667
Std Dev 3.454

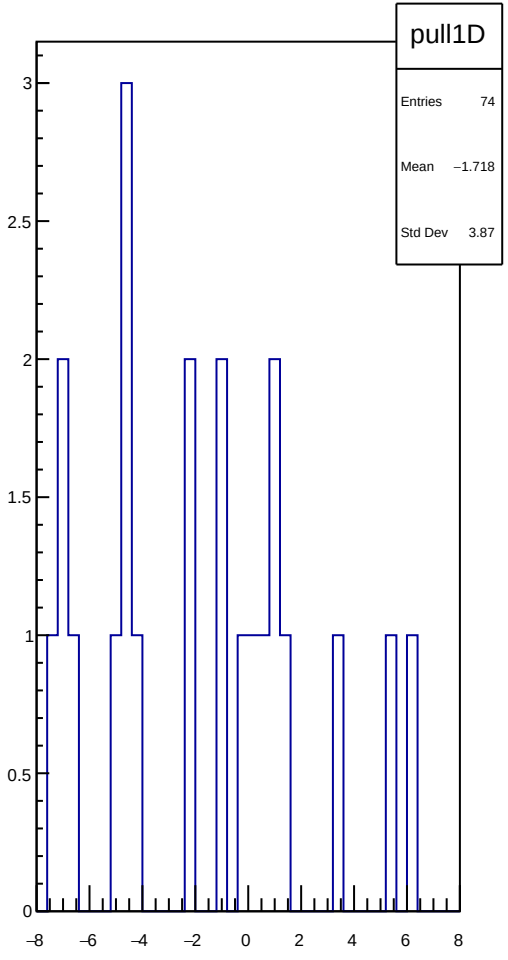

yield_bpm12X_rms vs run
χ² / ndf 1.007e+05 / 73
p0 0.0351 ± 3.067e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

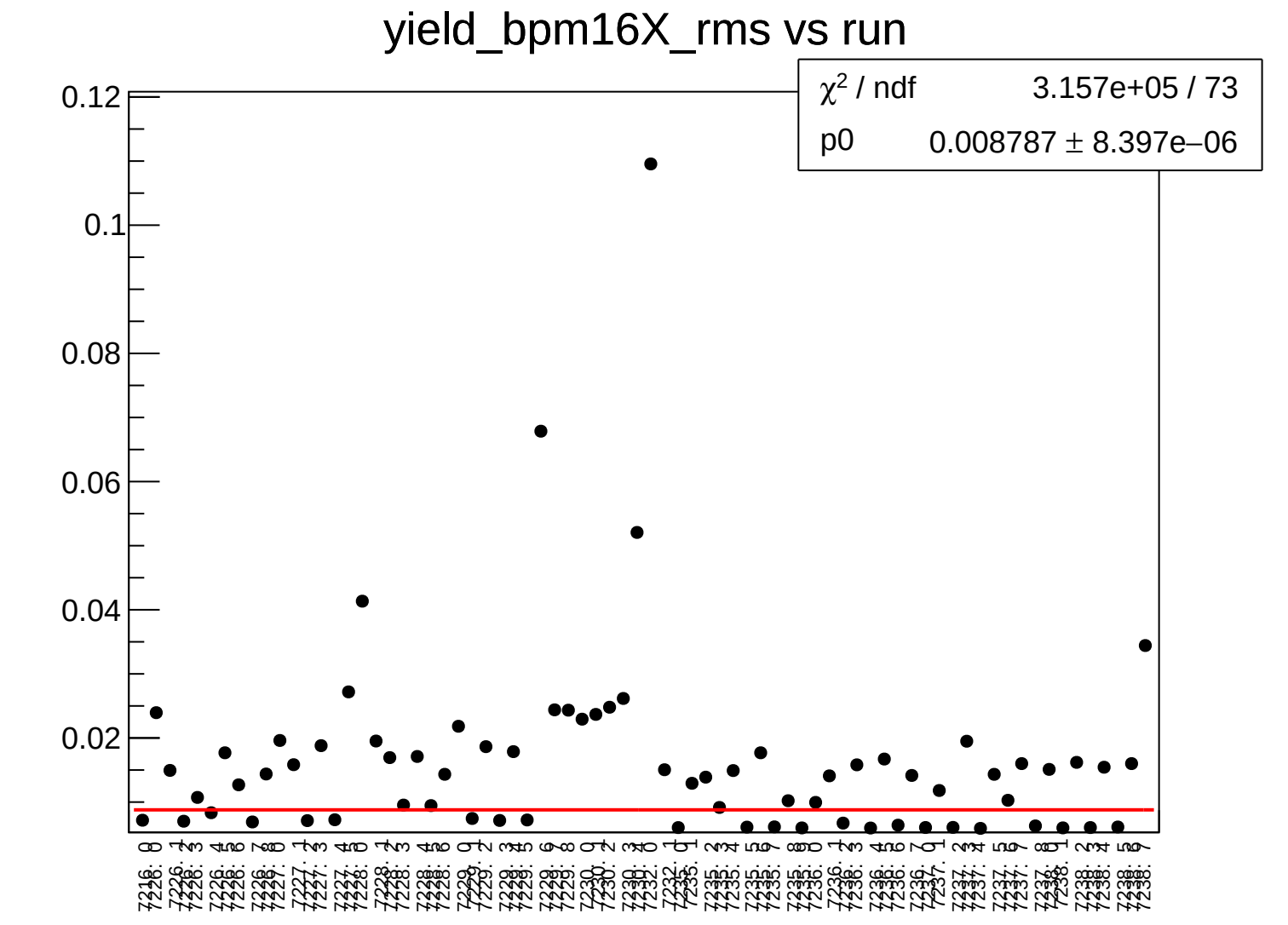

yield_bpm12Y_mean vs run
χ² / ndf 1.888e+10 / 73
p0 1.08 ± 1.062e−05
pull
Entries 74
Mean 268.4
Std Dev 229

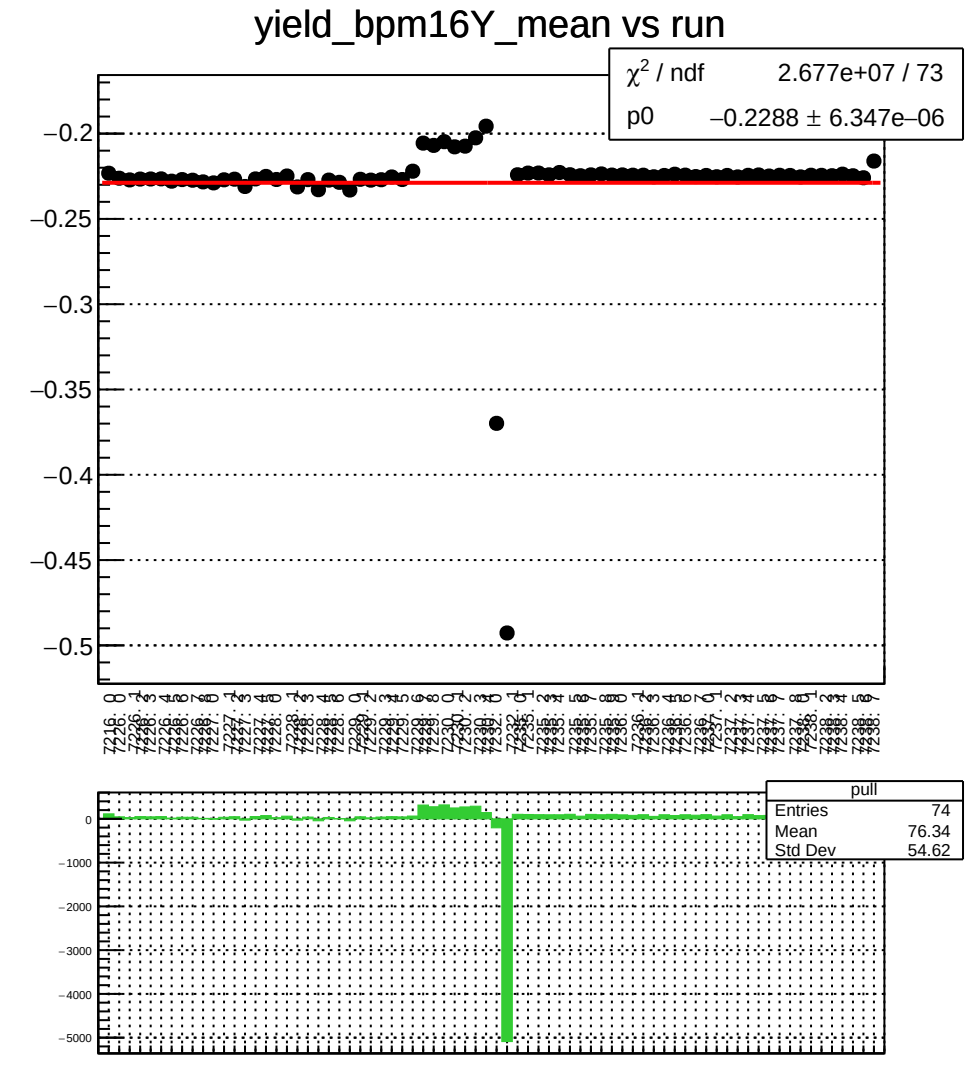

pull1D
Entries 74
Mean 0
Std Dev 0

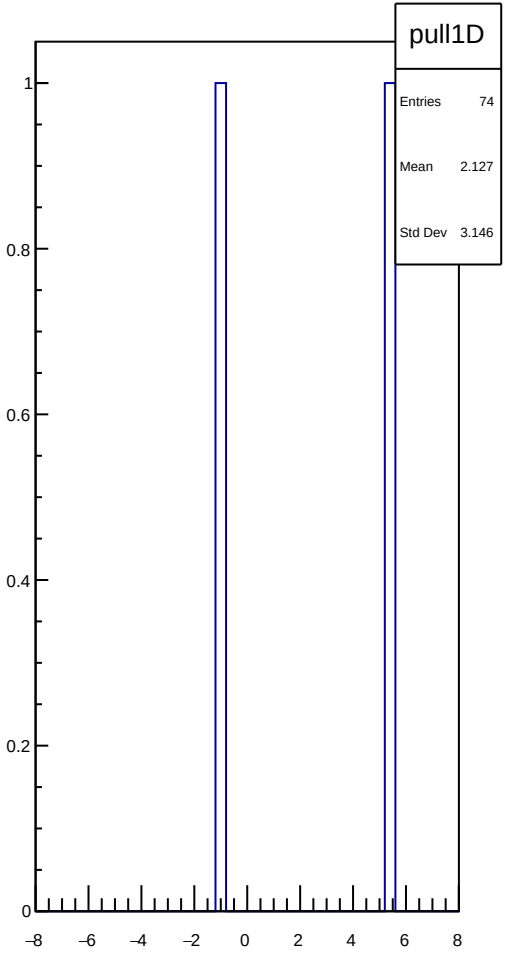

yield_bpm12Y_rms vs run
χ² / ndf 1.134e+05 / 73
p0 0.008553 ± 7.509e−06
0.5
0.4
0.3
0.2
0.1

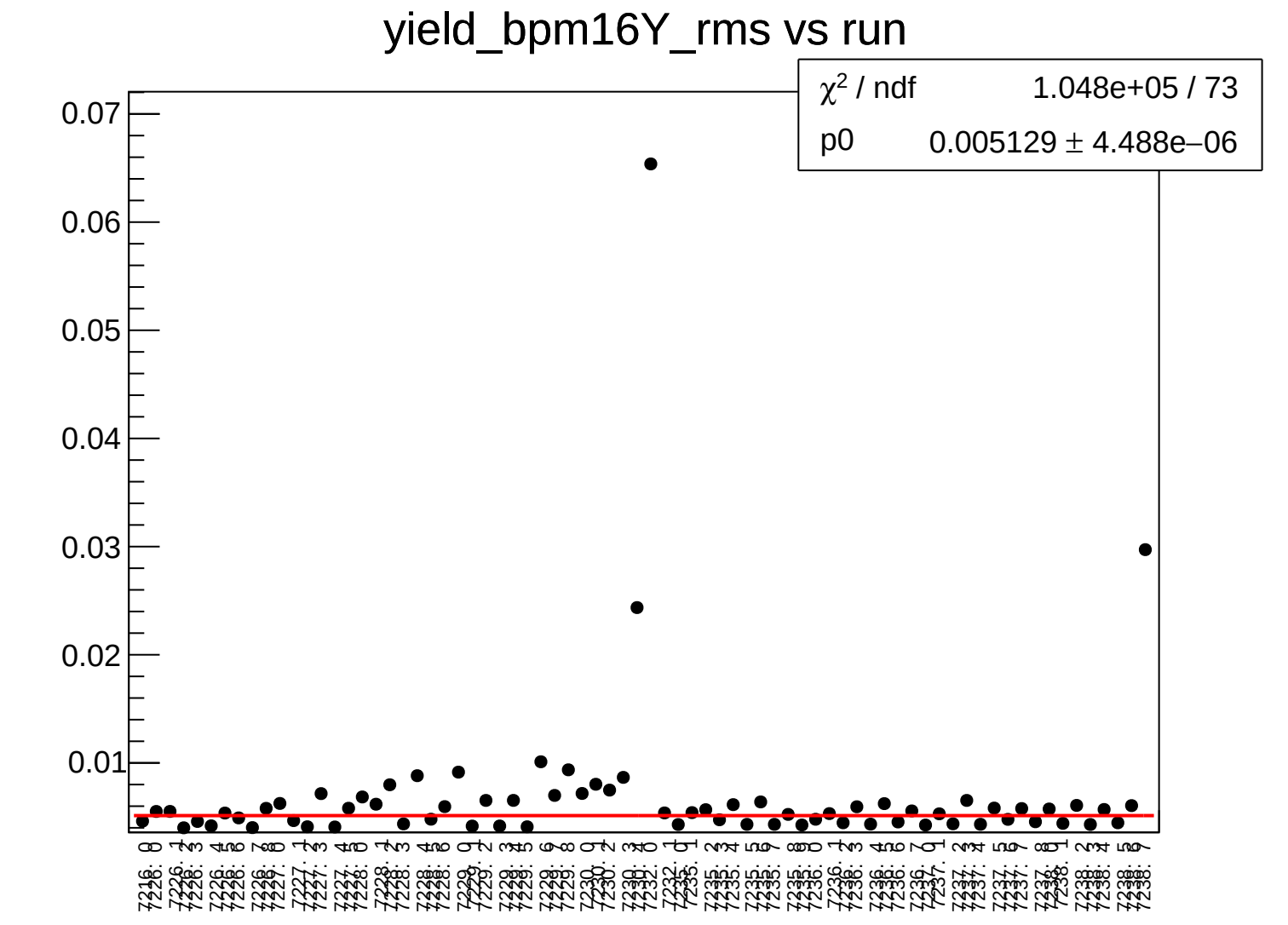

yield_bpm16X_mean vs run
χ² / ndf 1.613e+07 / 73
p0 −0.4316 ± 1.187e−05
pull
Entries 74
Mean −11.13
Std Dev 39.84

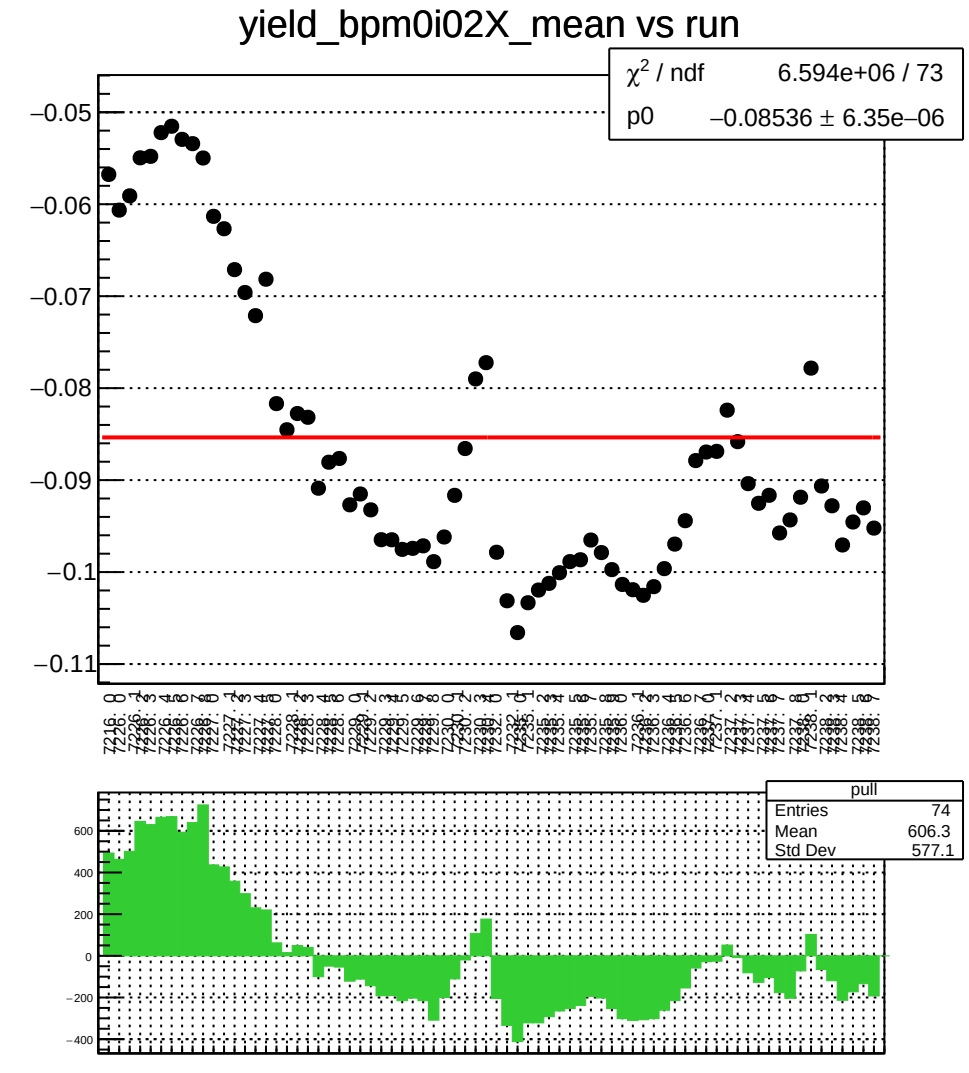

pull1D
Entries 74
Mean −1.718
Std Dev 3.87

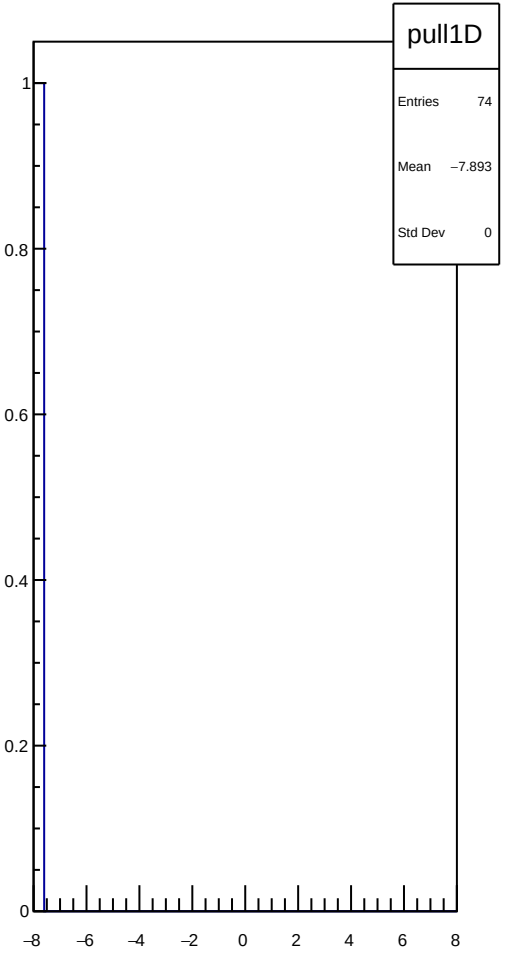

yield_bpm16X_rms vs run
χ² / ndf 3.157e+05 / 73
p0 0.008787 ± 8.397e−06
0.12
0.1
0.08
0.06
0.04
0.02

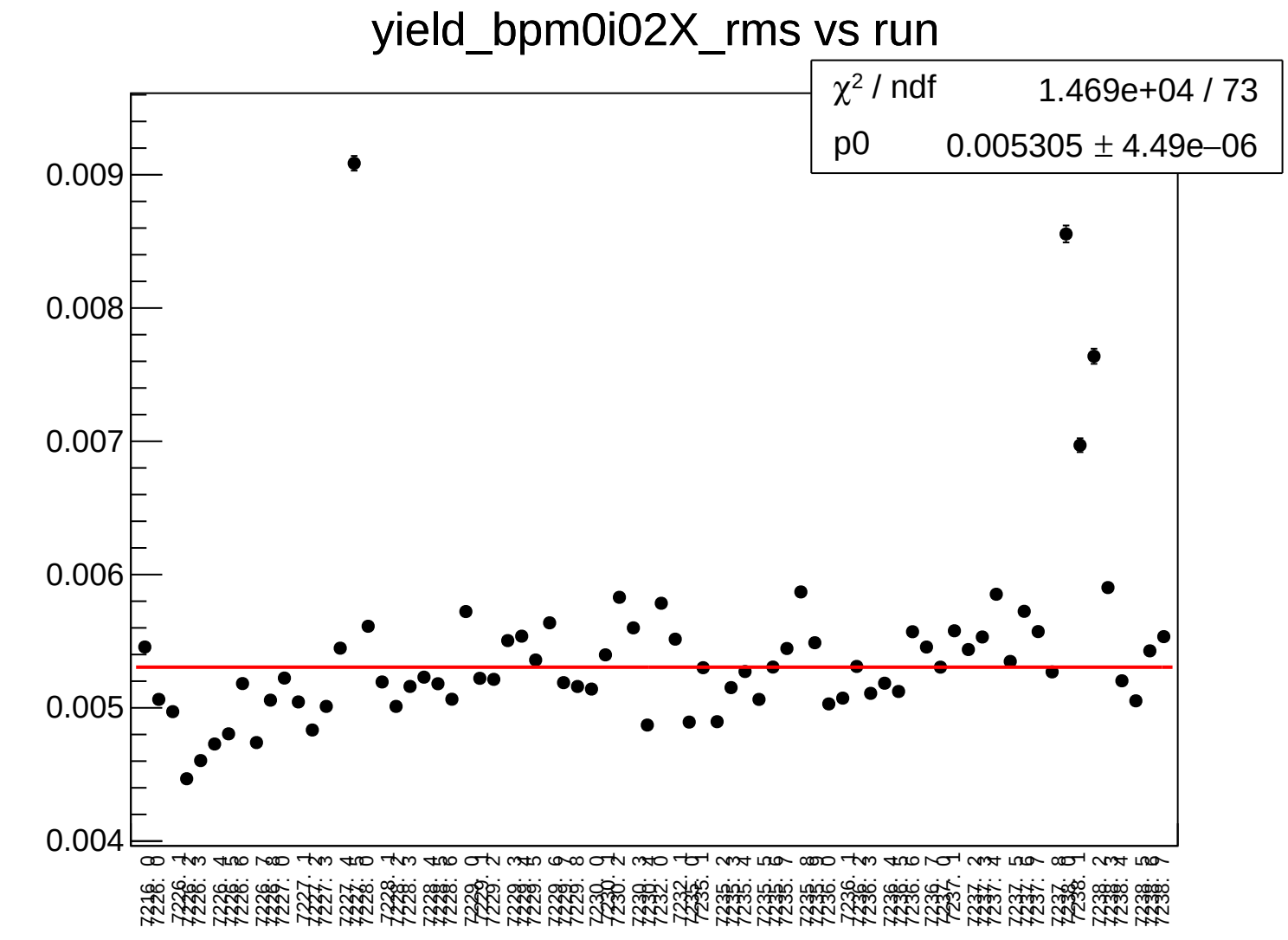

yield_bpm16Y_mean vs run
χ² / ndf 2.677e+07 / 73
p0 −0.2288 ± 6.347e−06
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 74
Mean 76.34
Std Dev 54.62
0
−1000
−2000
−3000
−4000
−5000

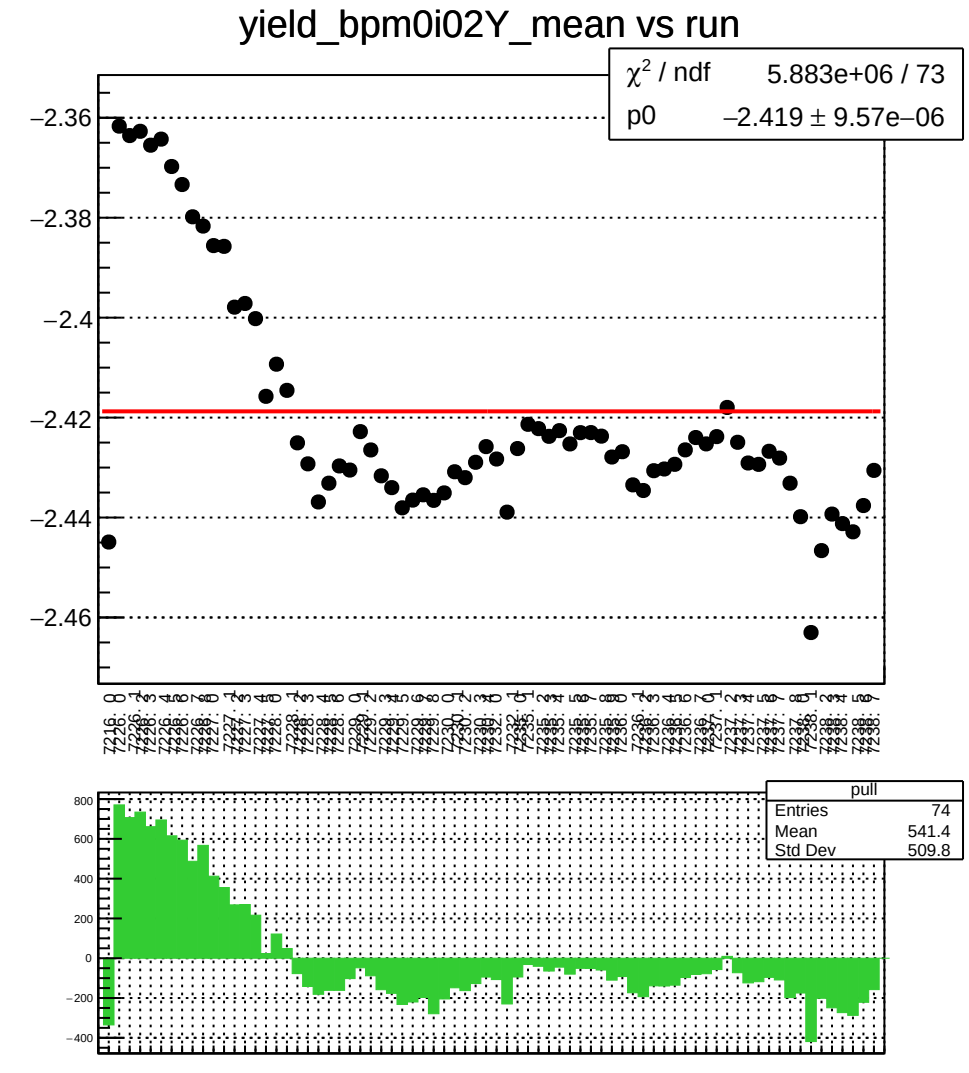

pull1D
Entries 74
Mean 2.127
Std Dev 3.146
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

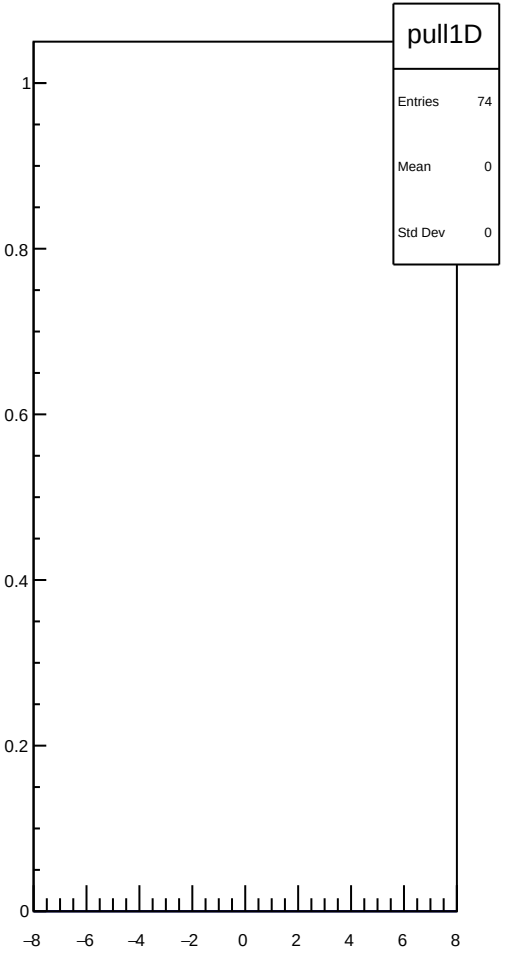

yield_bpm16Y_rms vs run
χ^2 / ndf 1.048e+05 / 73
p0 0.005129 ± 4.488e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

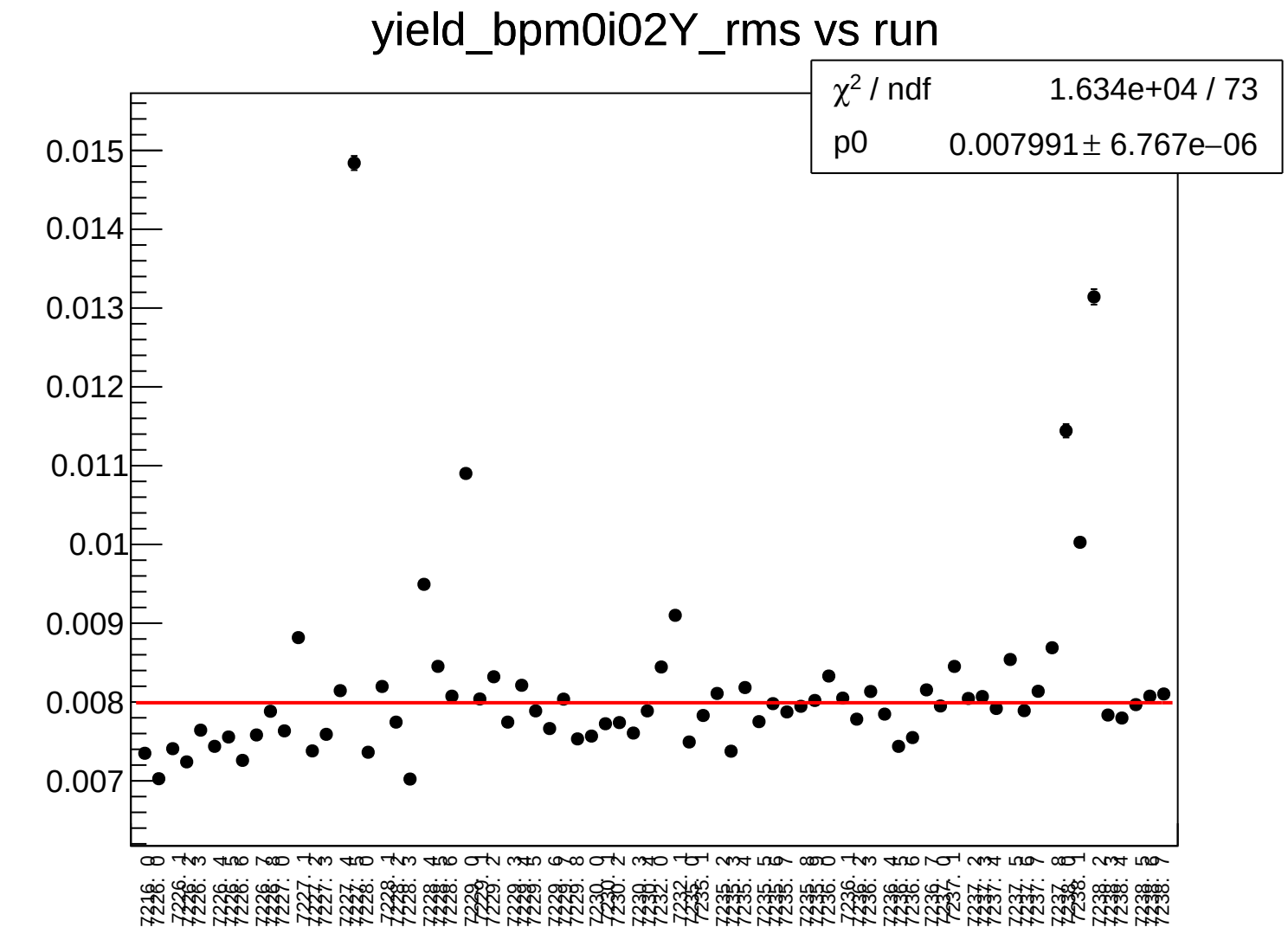

yield_bpm0i02X_mean vs run
χ² / ndf 6.594e+06 / 73
p0 −0.08536 ± 6.35e−06
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
−0.11
pull
Entries 74
Mean 606.3
Std Dev 577.1
600
400
200
0
−200
−400

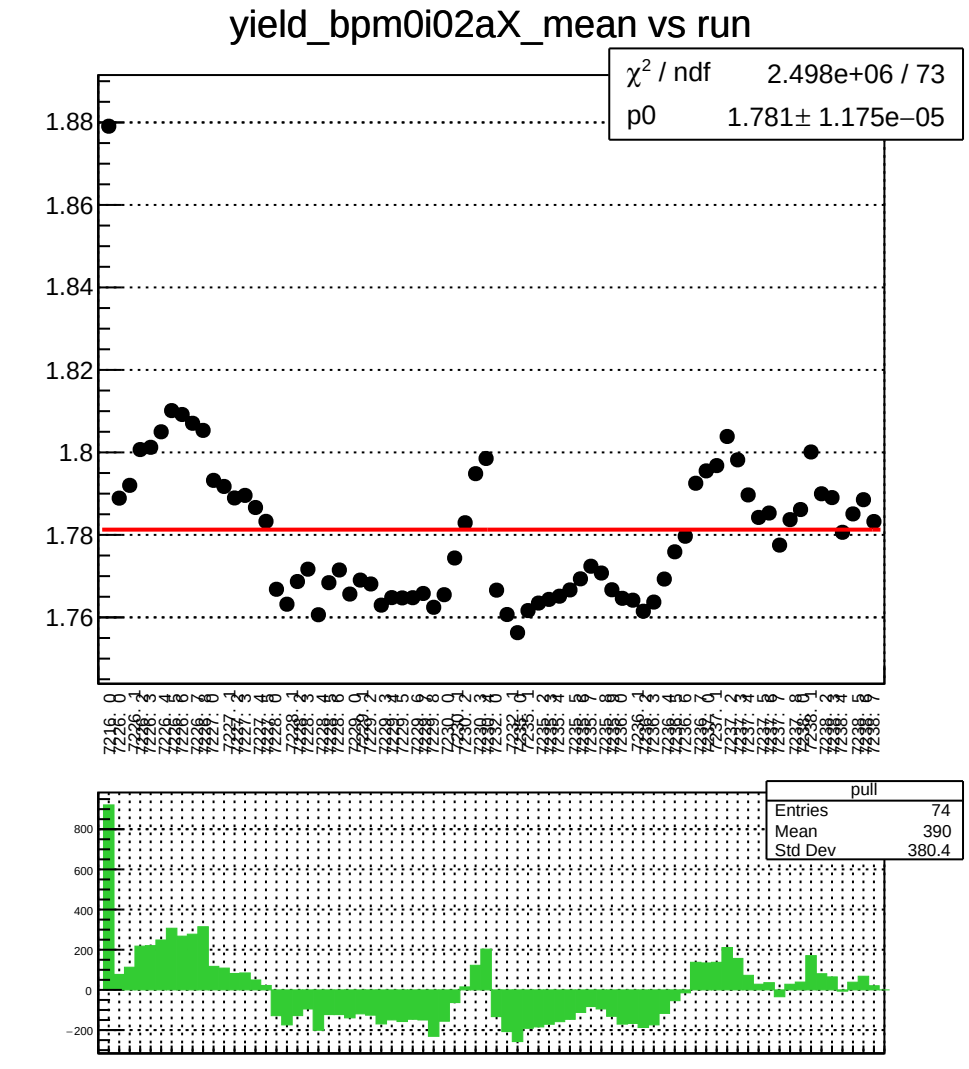

pull1D
Entries 74
Mean −7.893
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

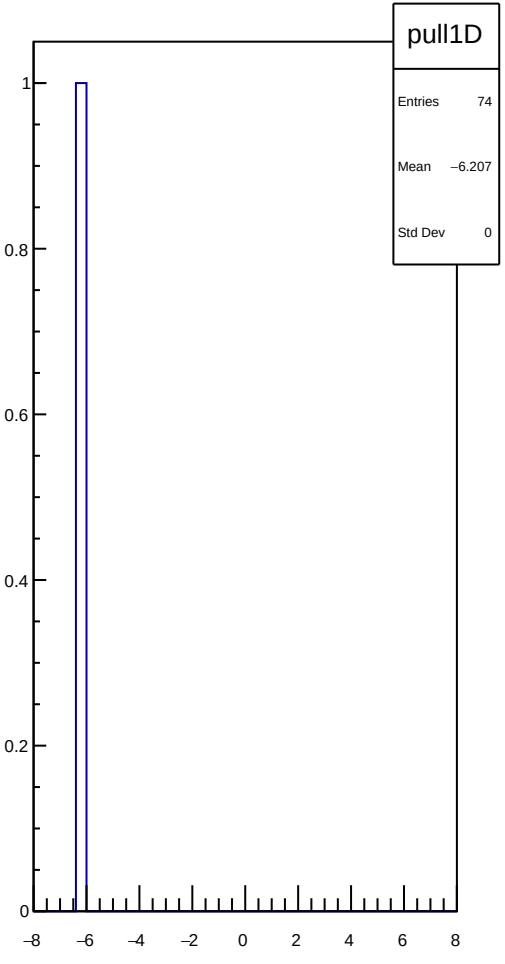

yield_bpm0i02X_rms vs run
χ² / ndf 1.469e+04 / 73
p0 0.005305 ± 4.49e−06
0.009
0.008
0.007
0.006
0.005
0.004

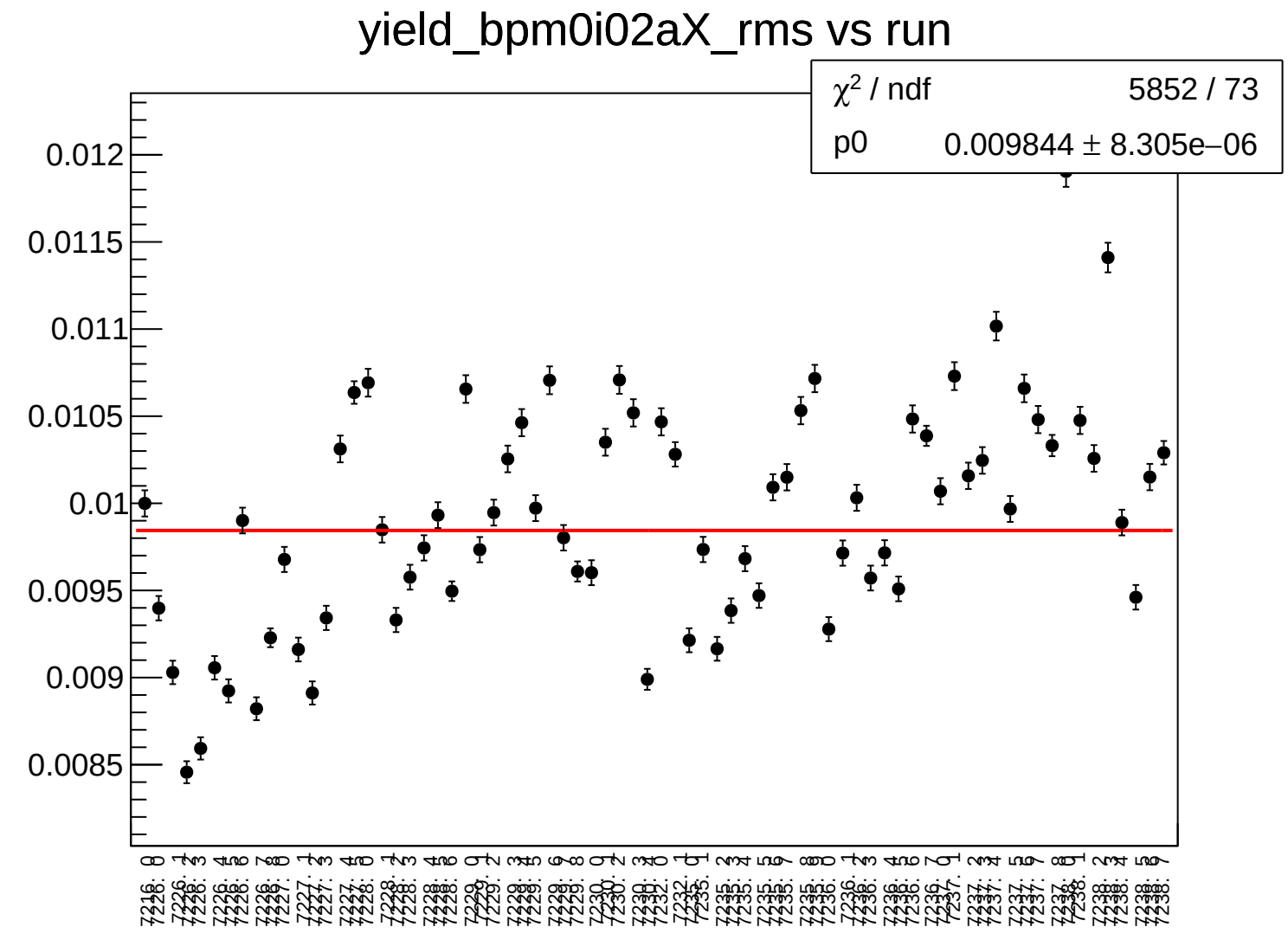

yield_bpm0i02Y_mean vs run
χ² / ndf 5.883e+06 / 73
p0 −2.419 ± 9.57e−06
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
pull
Entries 74
Mean 541.4
Std Dev 509.8
800
600
400
200
0
−200
−400

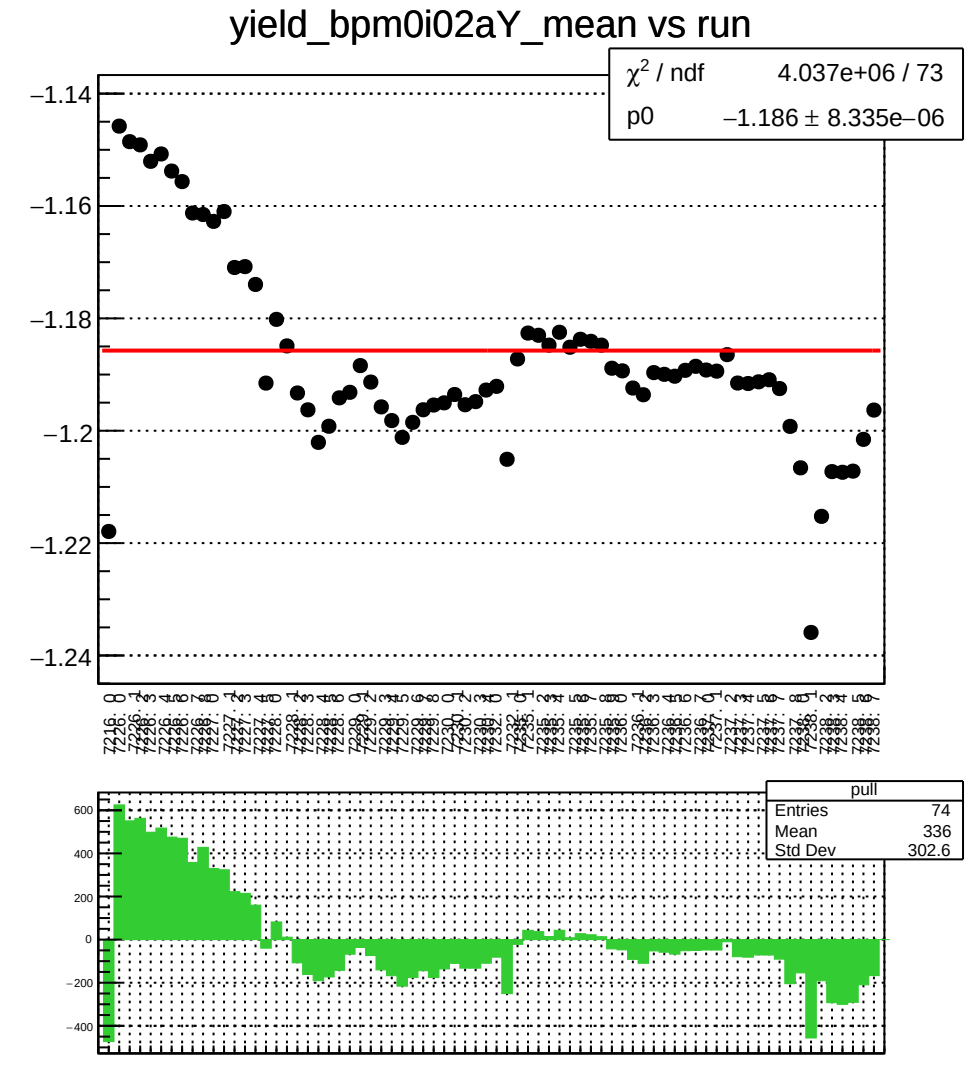

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

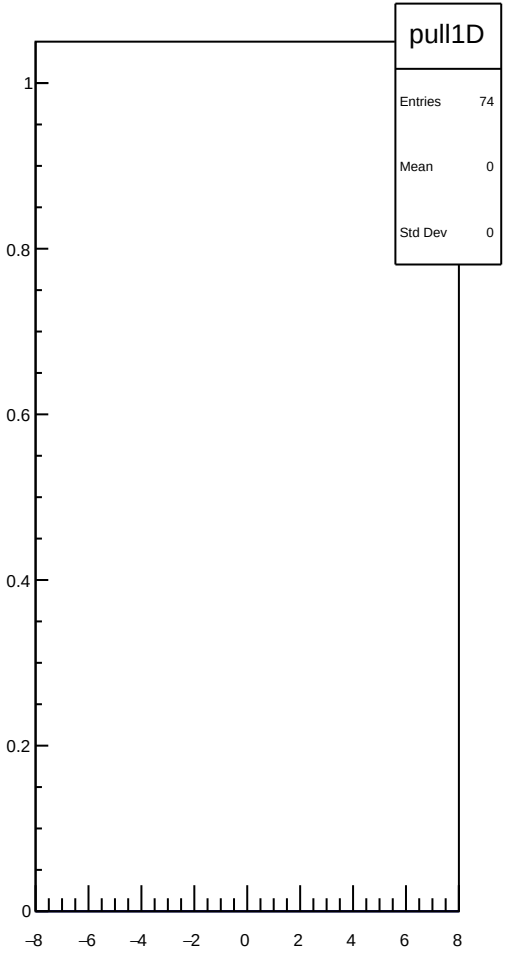

yield_bpm0i02Y_rms vs run
χ² / ndf 1.634e+04 / 73
p0 0.007991 ± 6.767e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

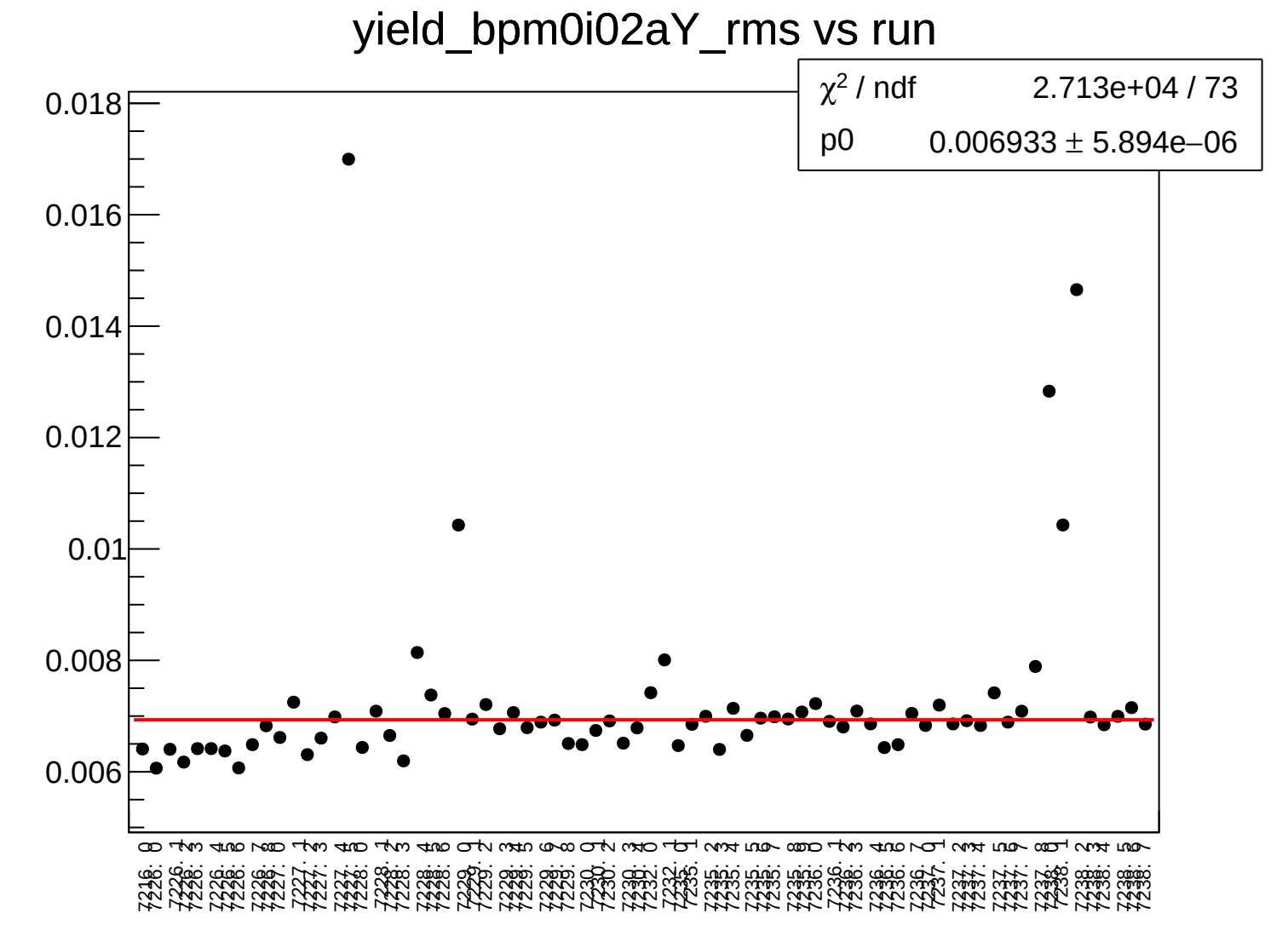

yield_bpm0i02aX_mean vs run
χ² / ndf 2.498e+06 / 73
p0 1.781± 1.175e−05
1.88
1.86
1.84
1.82
1.8
1.78
1.76
pull
Entries 74
Mean 390
Std Dev 380.4
800
600
400
200
0
−200

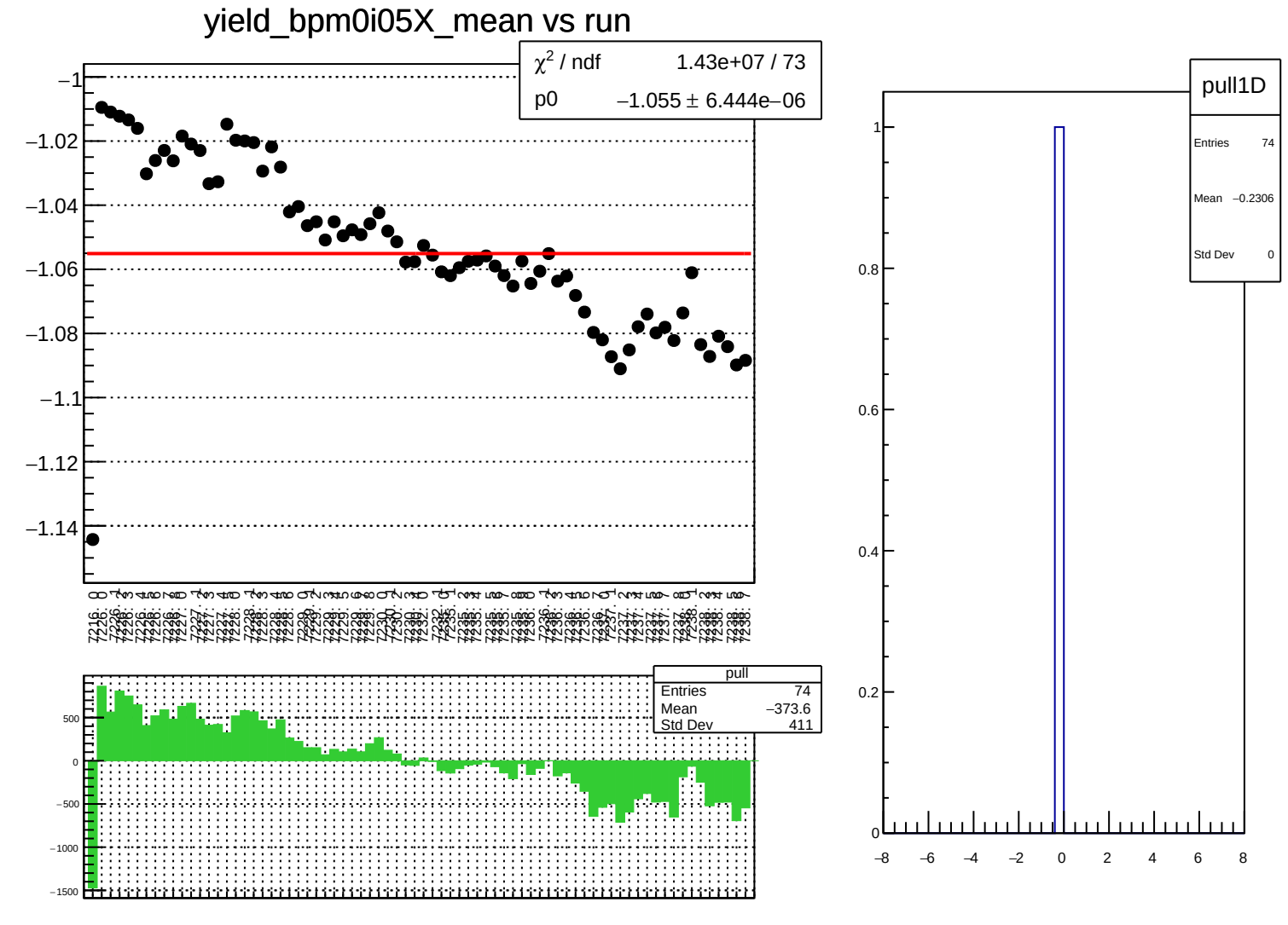

pull1D
Entries 74
Mean −6.207
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

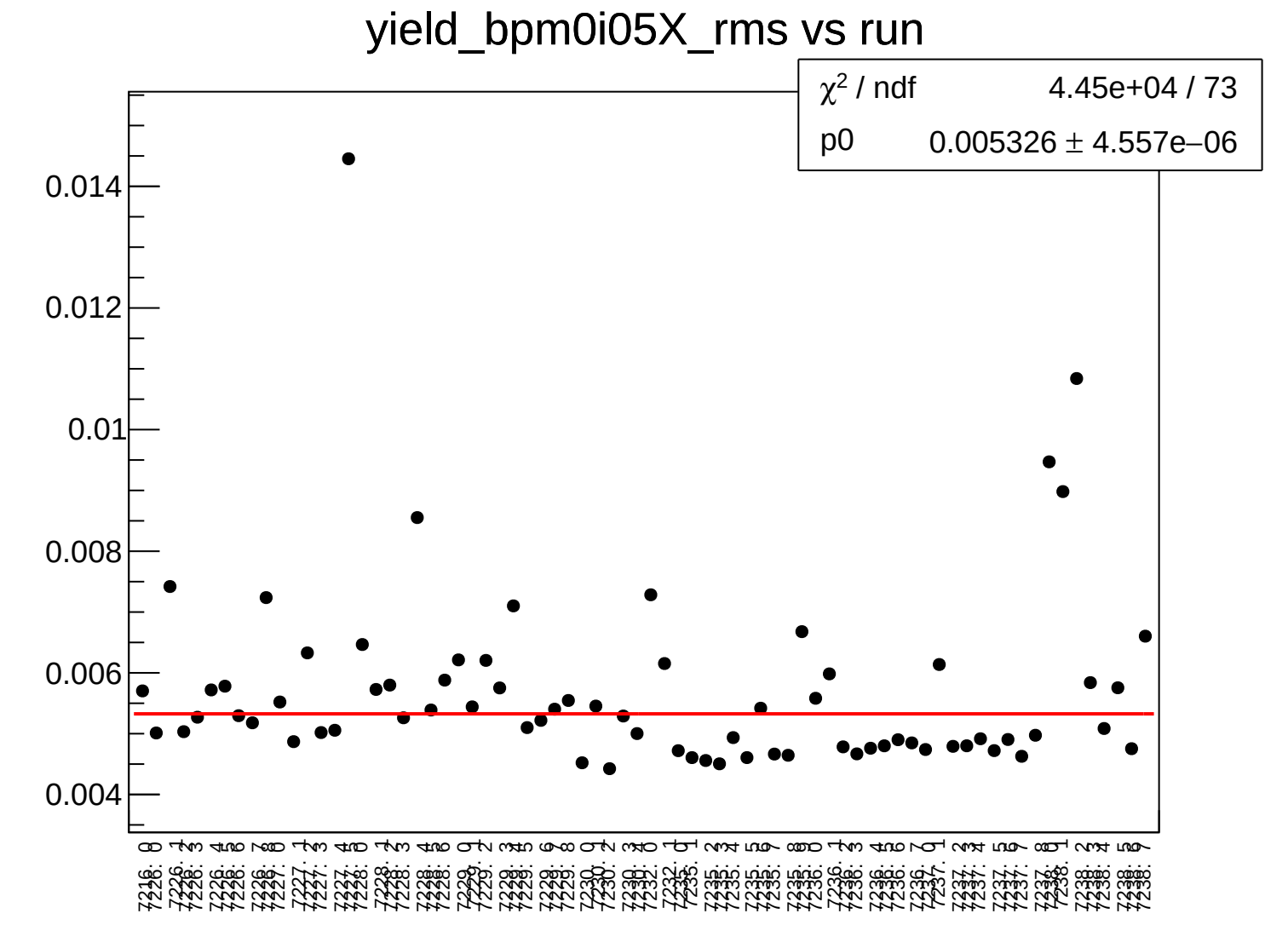

yield_bpm0i02aX_rms vs run
χ² / ndf 5852 / 73
p0 0.009844 ± 8.305e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

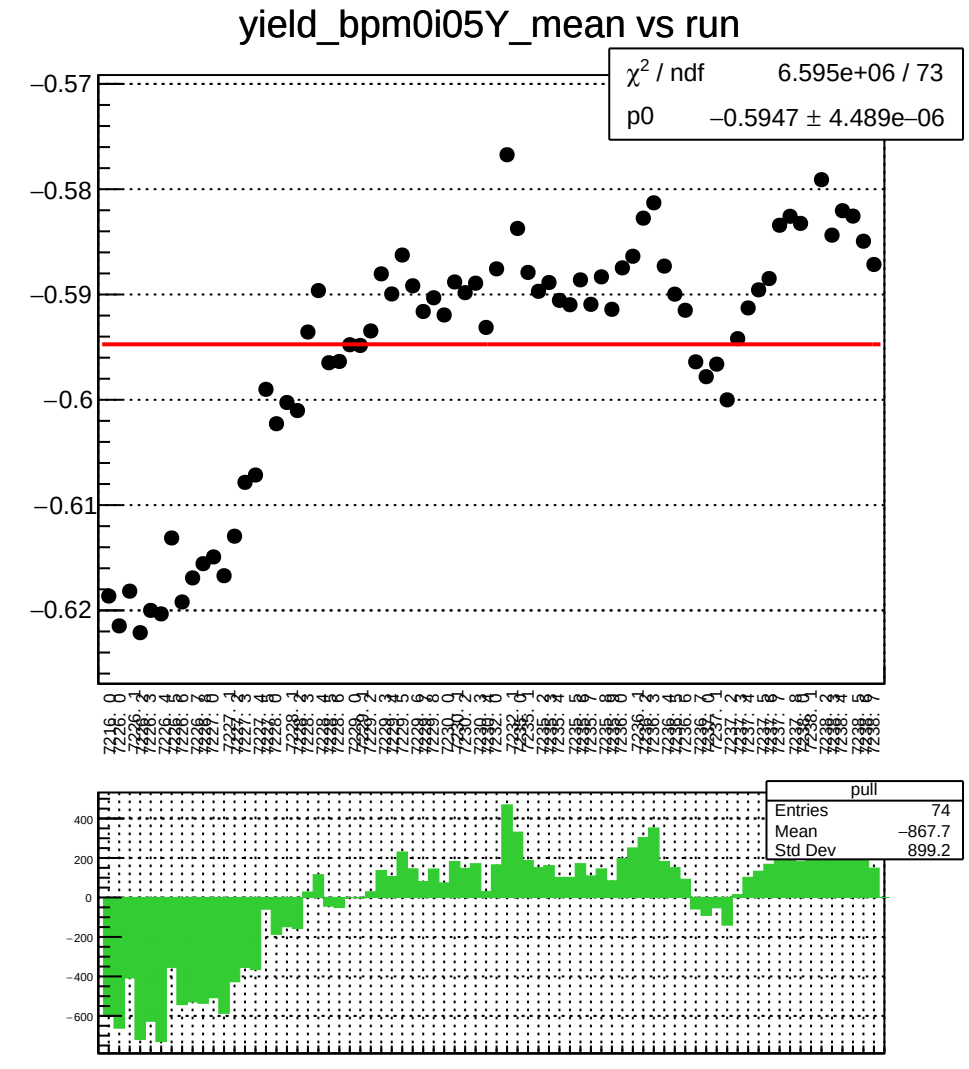

yield_bpm0i02aY_mean vs run
χ² / ndf 4.037e+06 / 73
p0 −1.186 ± 8.335e−06
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 74
Mean 336
Std Dev 302.6
600
400
200
0
−200
−400

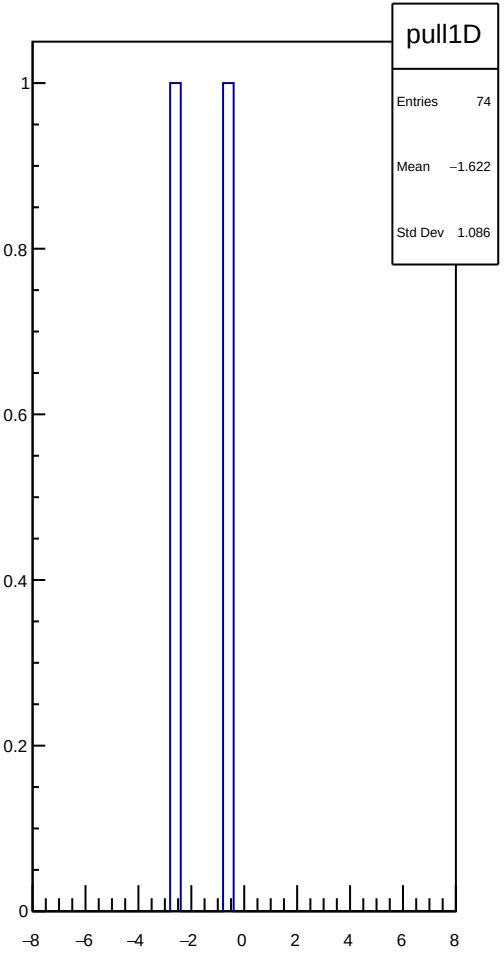

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

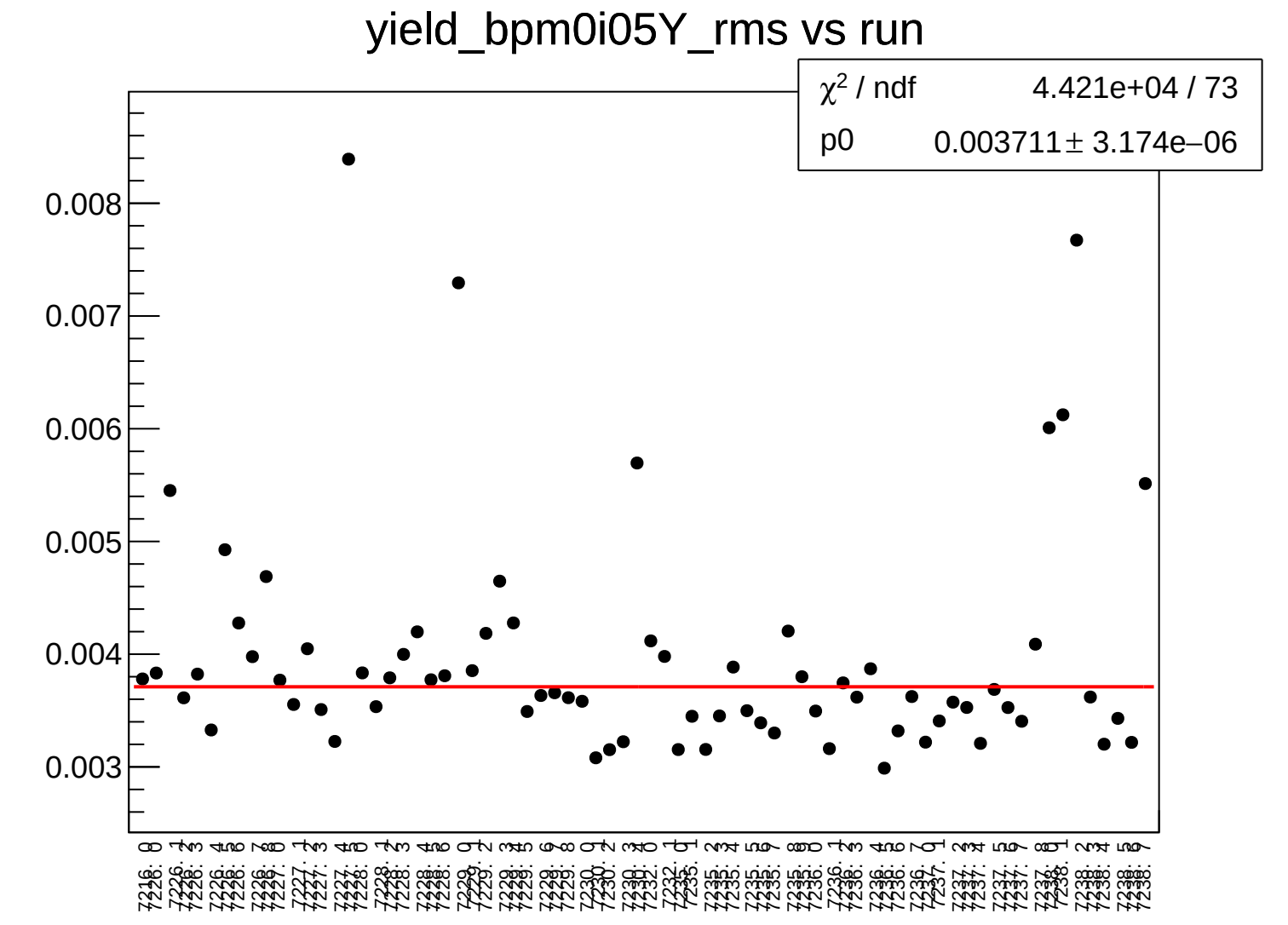

yield_bpm0i02aY_rms vs run
χ² / ndf 2.713e+04 / 73
p0 0.006933 ± 5.894e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

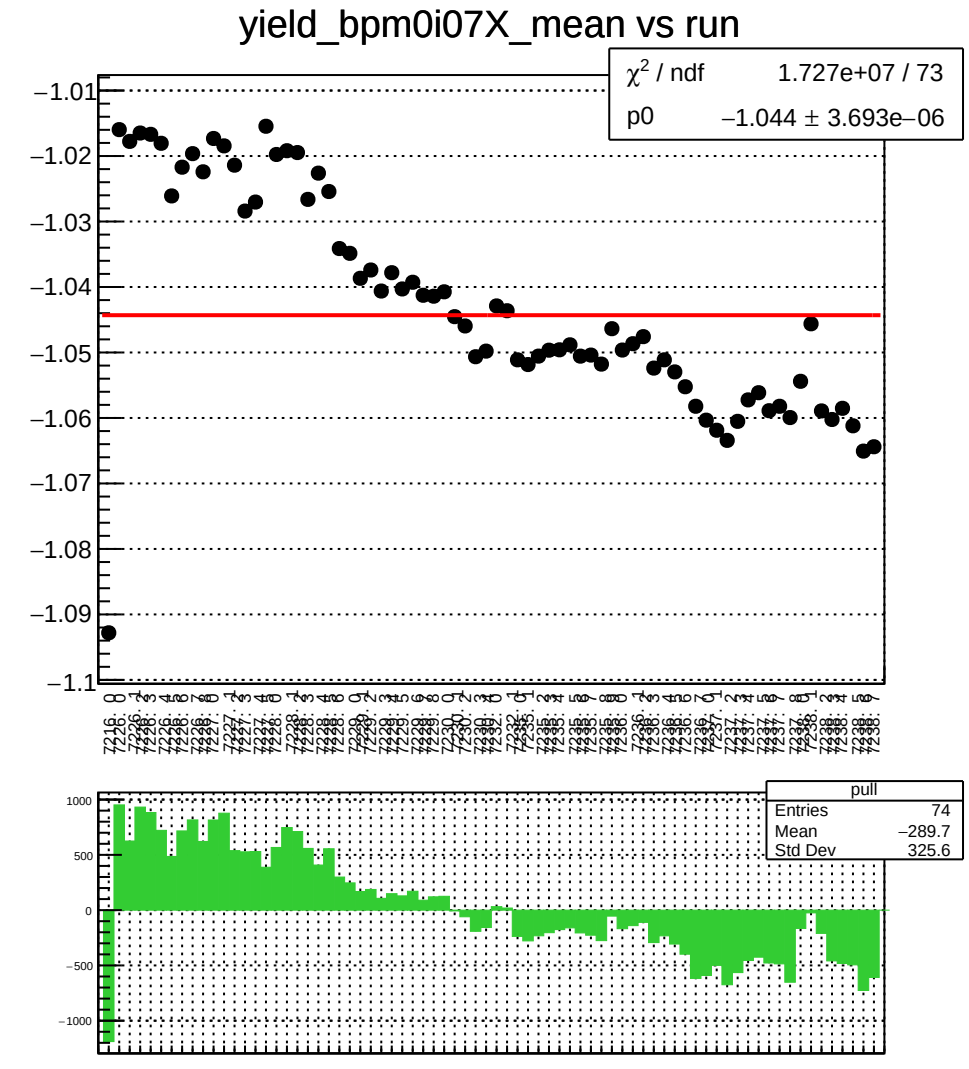

yield_bpm0i05X_mean vs run
χ² / ndf 1.43e+07 / 73
p0 −1.055 ± 6.444e−06
pull
Entries 74
Mean −373.6
Std Dev 411
pull1D
Entries 74
Mean −0.2306
Std Dev 0

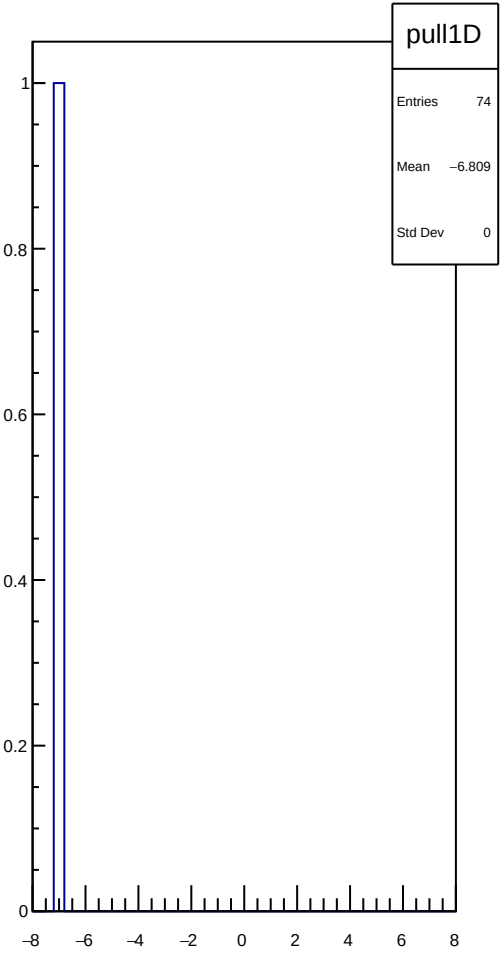

yield_bpm0i05X_rms vs run
χ^2 / ndf 4.45e+04 / 73
p0 0.005326 ± 4.557e−06
0.014
0.012
0.01
0.008
0.006
0.004

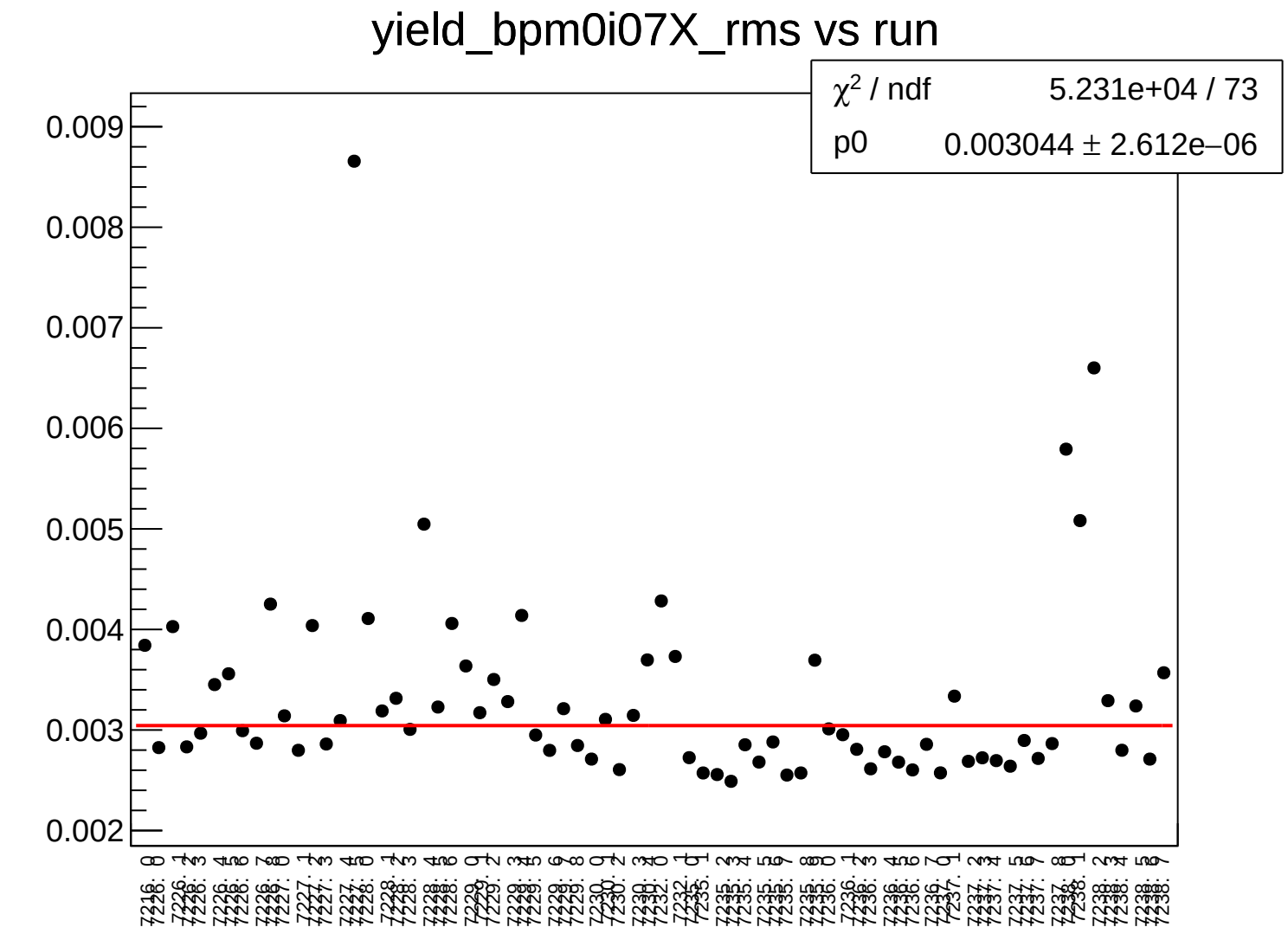

yield_bpm0i05Y_mean vs run
χ² / ndf 6.595e+06 / 73
p0 −0.5947 ± 4.489e−06
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
pull
Entries 74
Mean −867.7
Std Dev 899.2
400
200
0
−200
−400
−600

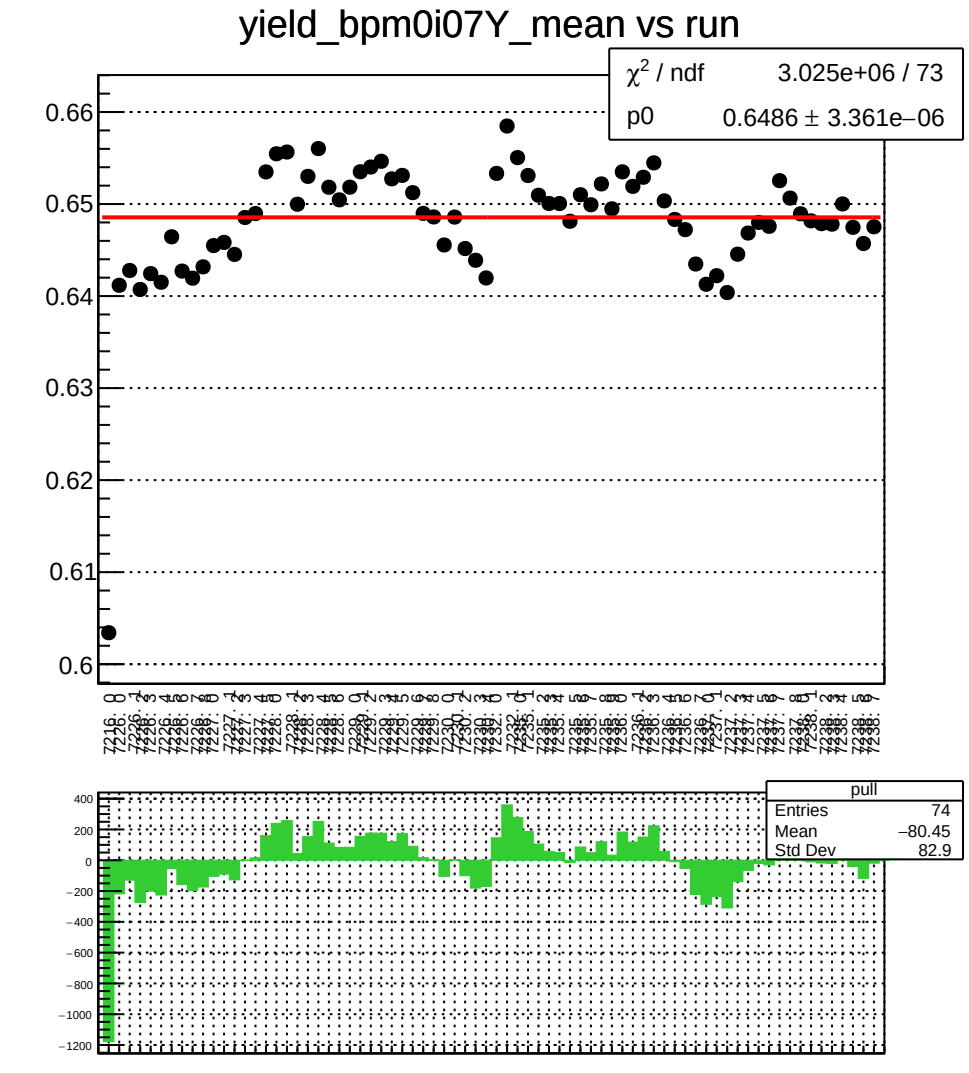

pull1D
Entries 74
Mean −1.622
Std Dev 1.086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

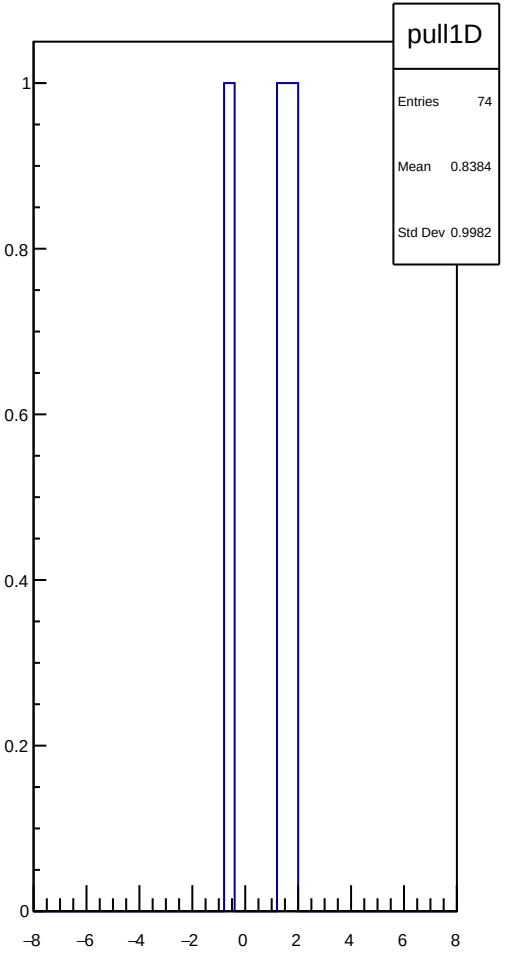

yield_bpm0i05Y_rms vs run
χ² / ndf 4.421e+04 / 73
p0 0.003711 ± 3.174e−06
0.008
0.007
0.006
0.005
0.004
0.003

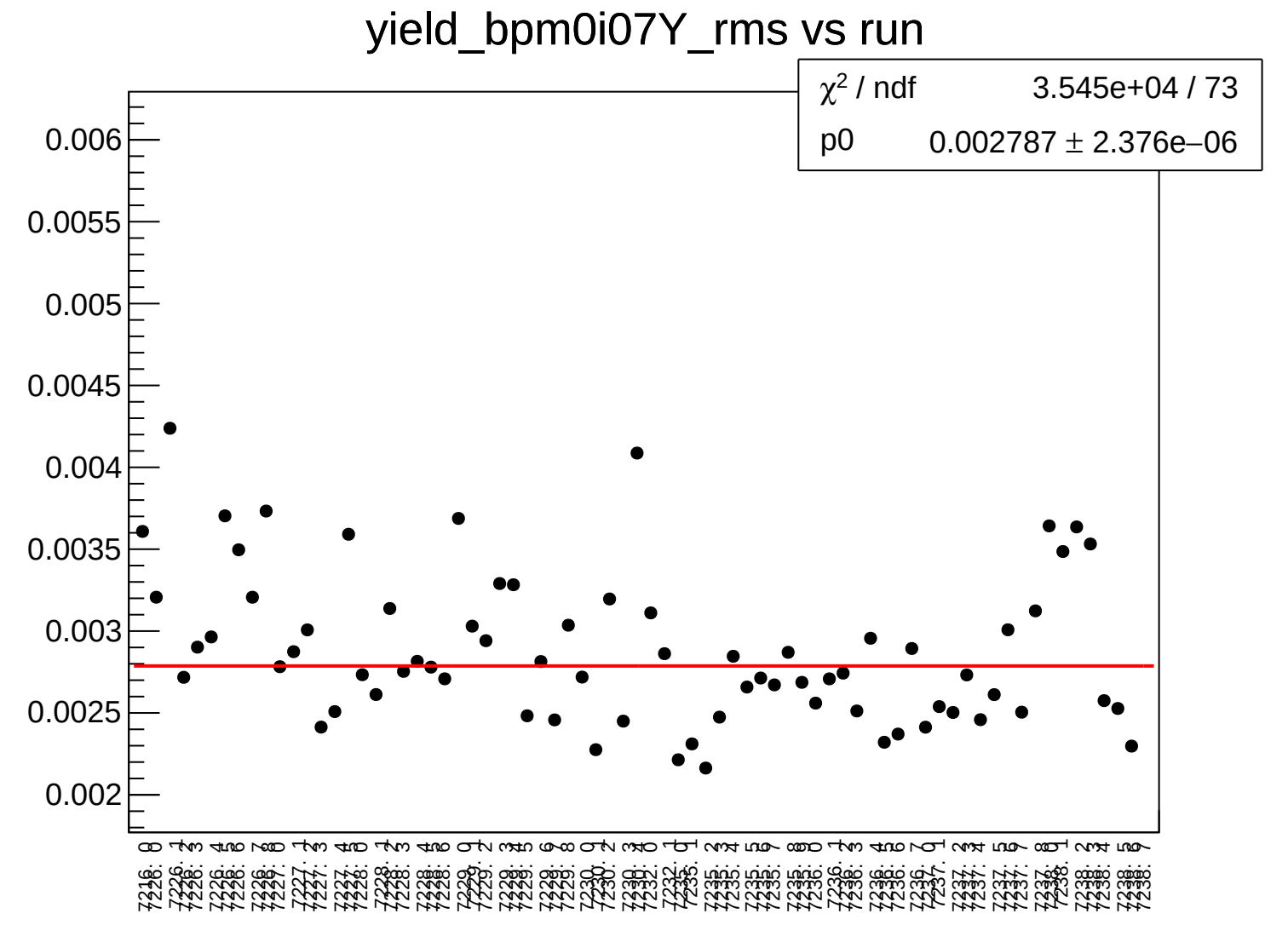

yield_bpm0i07X_mean vs run
χ² / ndf 1.727e+07 / 73
p0 −1.044 ± 3.693e−06
−1.01
−1.02
−1.03
−1.04
−1.05
−1.06
−1.07
−1.08
−1.09
−1.1
pull
Entries 74
Mean −289.7
Std Dev 325.6
1000
500
0
−500
−1000

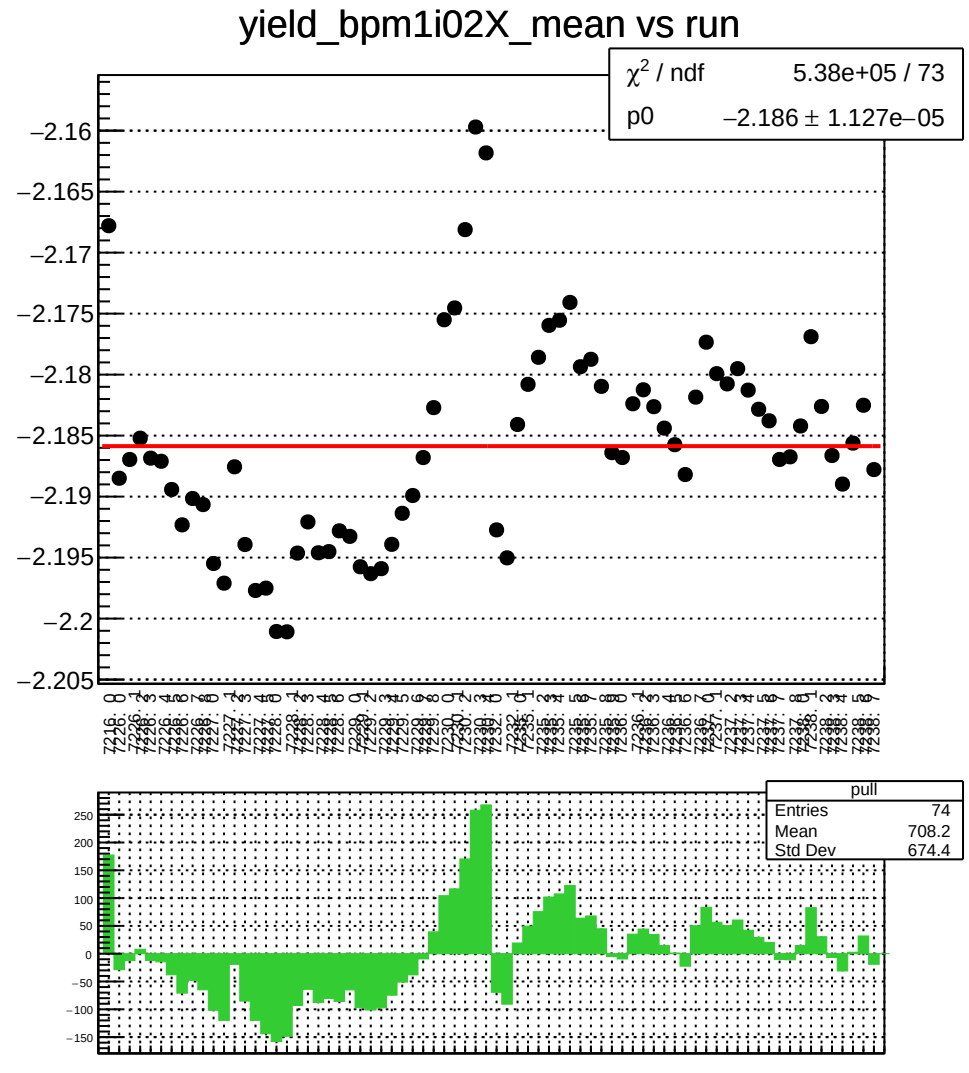

pull1D
Entries 74
Mean −6.809
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

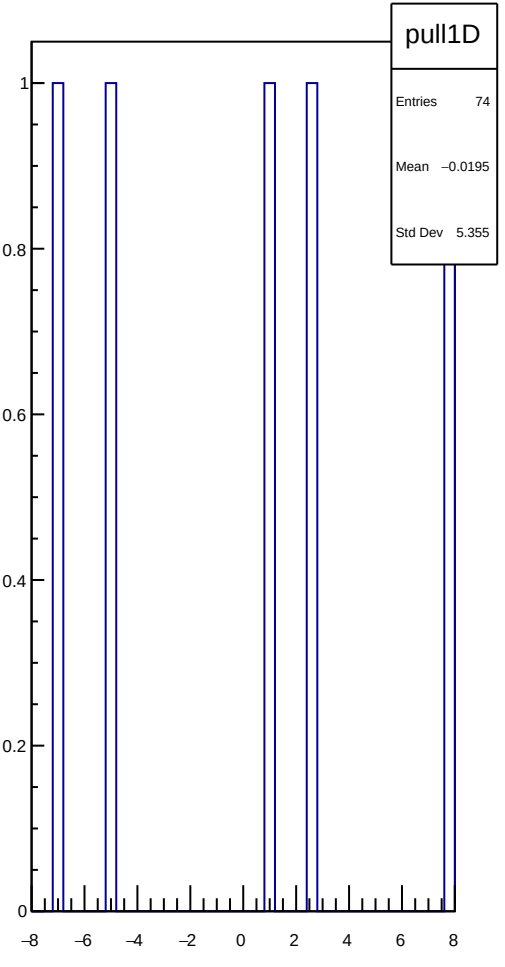

yield_bpm0i07X_rms vs run
χ² / ndf 5.231e+04 / 73
p0 0.003044 ± 2.612e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

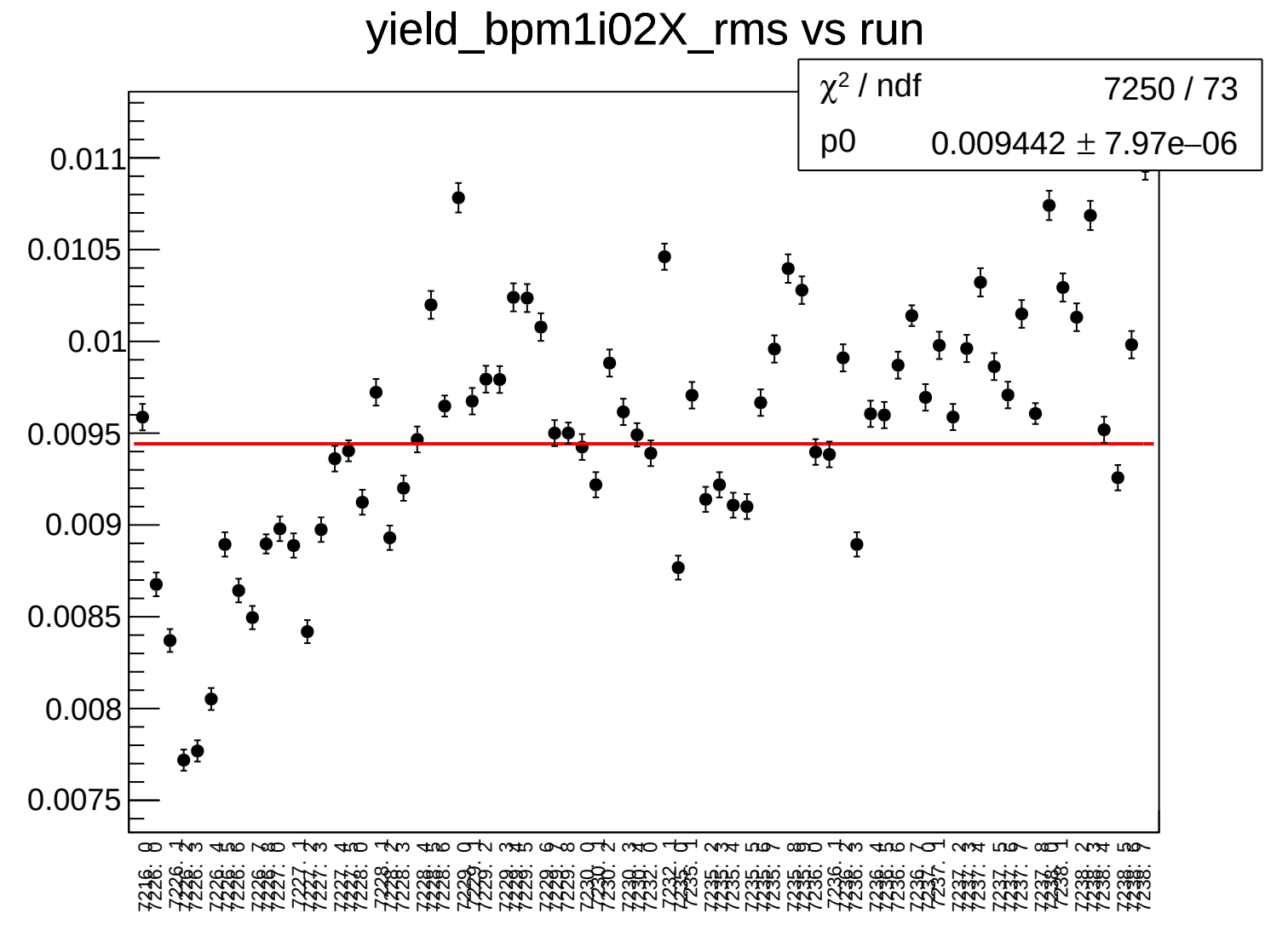

yield_bpm0i07Y_mean vs run
χ² / ndf 3.025e+06 / 73
p0 0.6486 ± 3.361e−06
0.66
0.65
0.64
0.63
0.62
0.61
0.6
pull
Entries 74
Mean −80.45
Std Dev 82.9
400
200
0
−200
−400
−600
−800
−1000
−1200

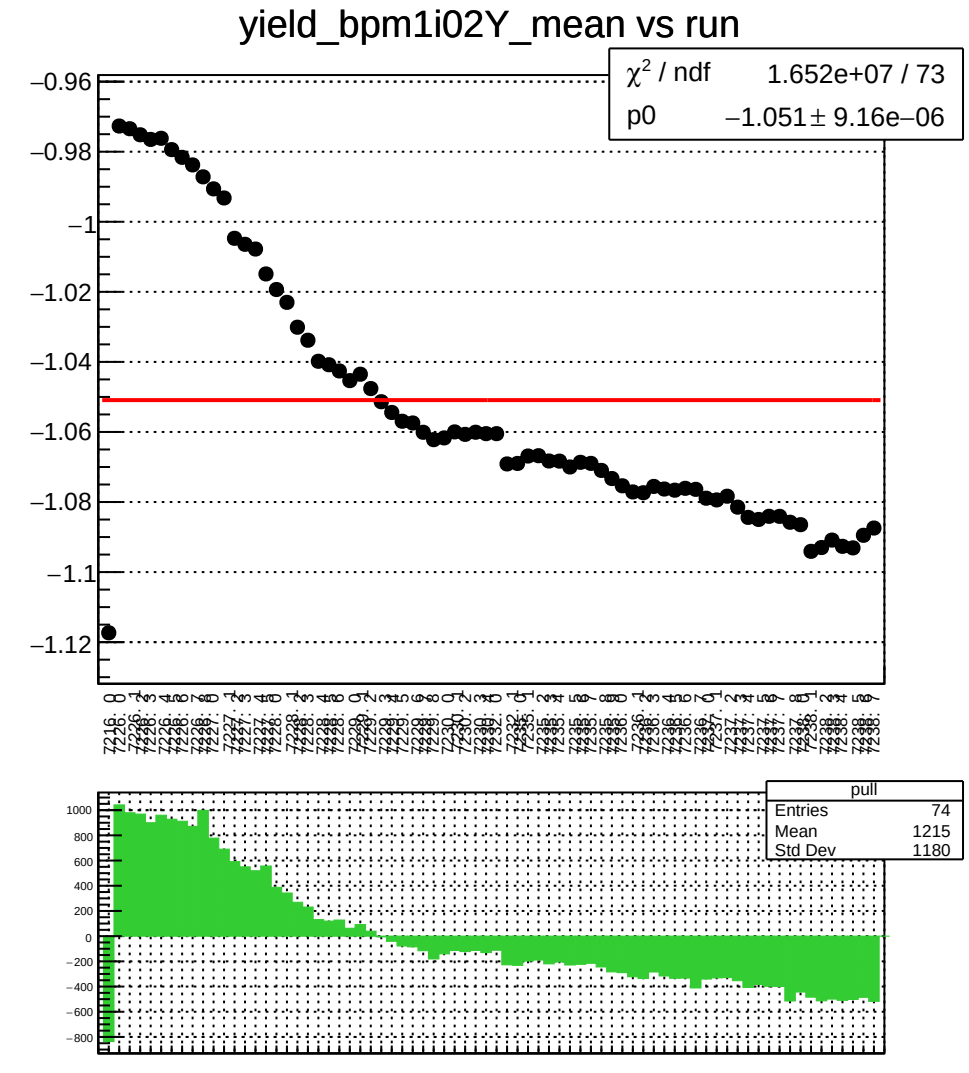

pull1D
Entries 74
Mean 0.8384
Std Dev 0.9982
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

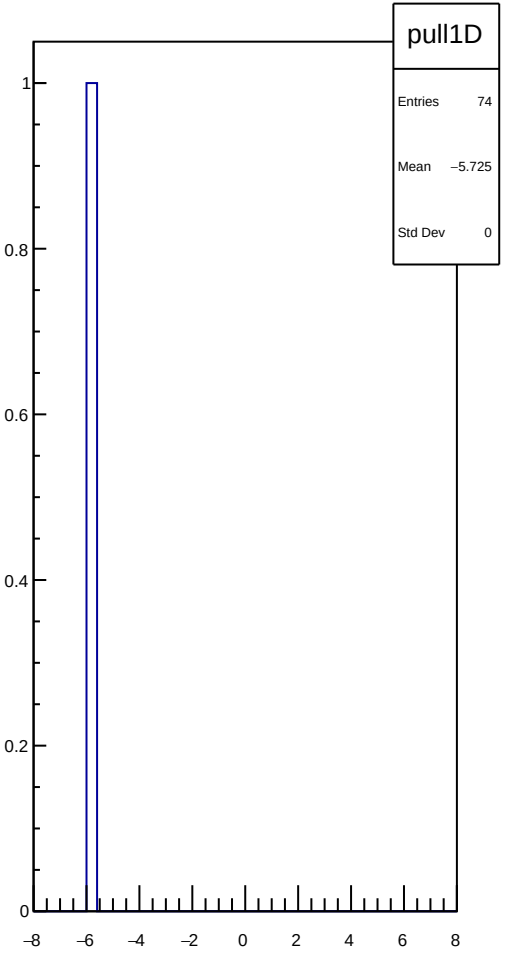

yield_bpm0i07Y_rms vs run
χ^2 / ndf 3.545e+04 / 73
p0 0.002787 ± 2.376e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

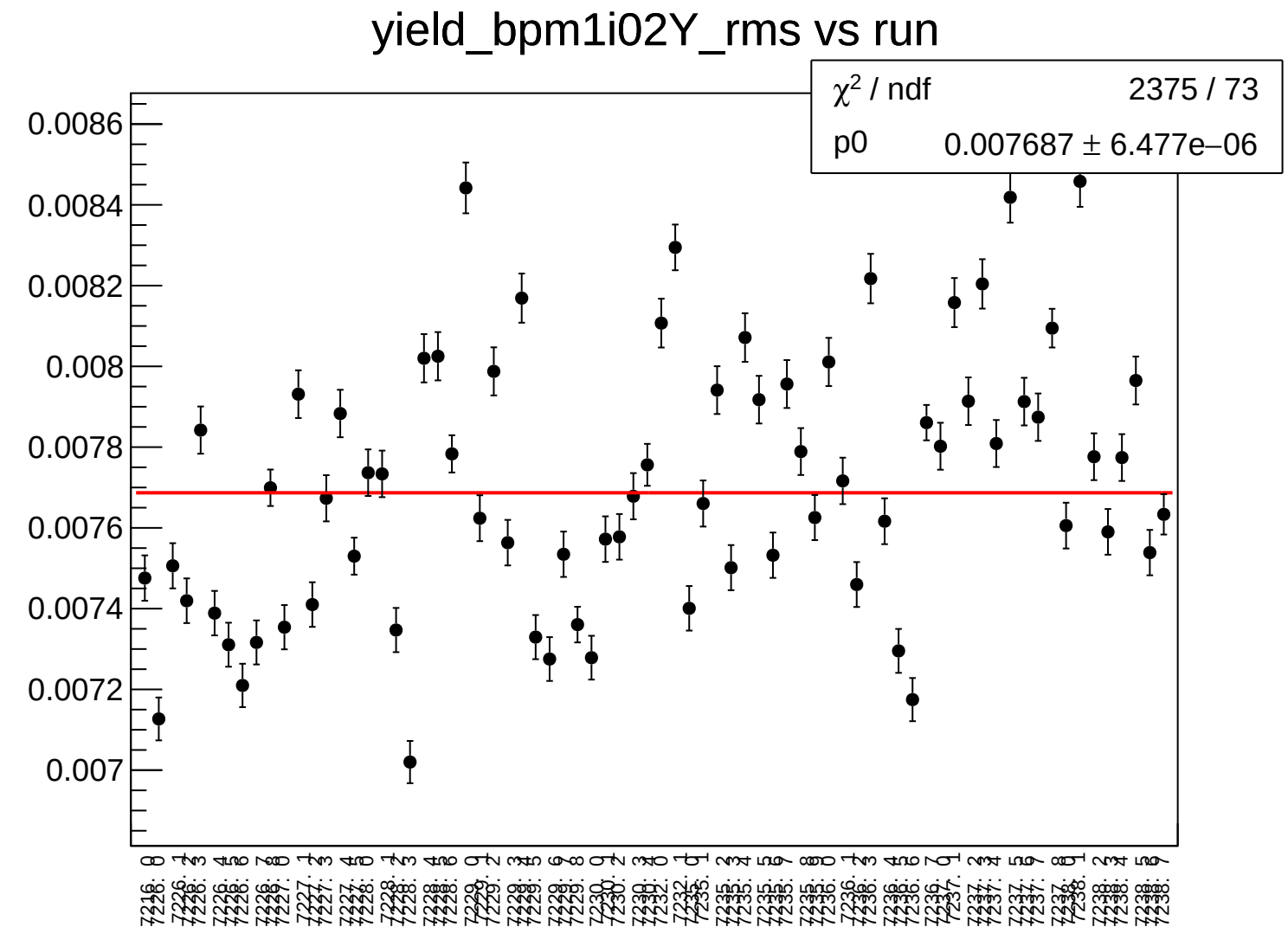

yield_bpm1i02X_mean vs run
χ² / ndf 5.38e+05 / 73
p0 −2.186 ± 1.127e−05
−2.16
−2.165
−2.17
−2.175
−2.18
−2.185
−2.19
−2.195
−2.2
−2.205
pull
Entries 74
Mean 708.2
Std Dev 674.4
250
200
150
100
50
0
−50
−100
−150

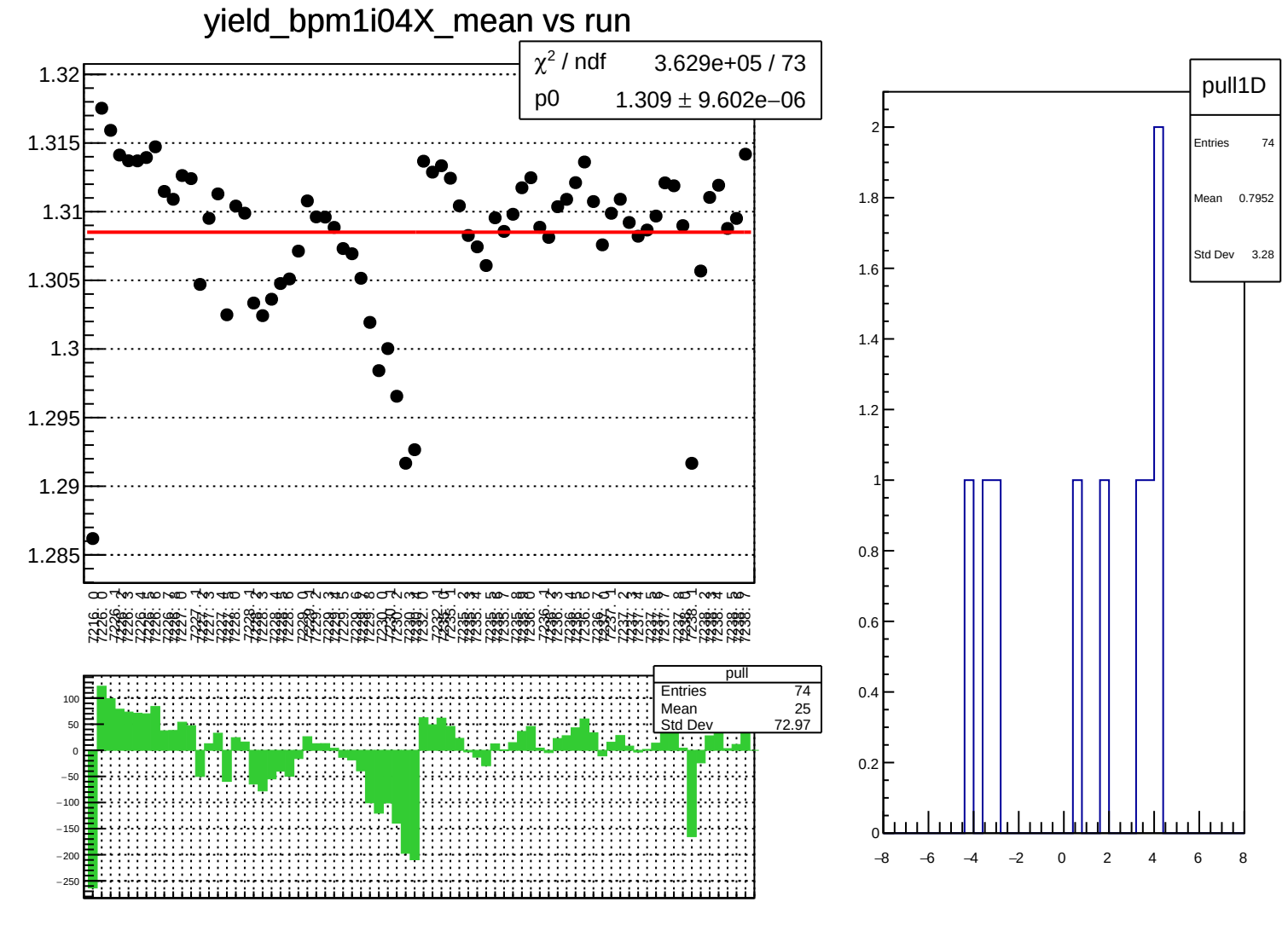

pull1D
Entries 74
Mean −0.0195
Std Dev 5.355
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

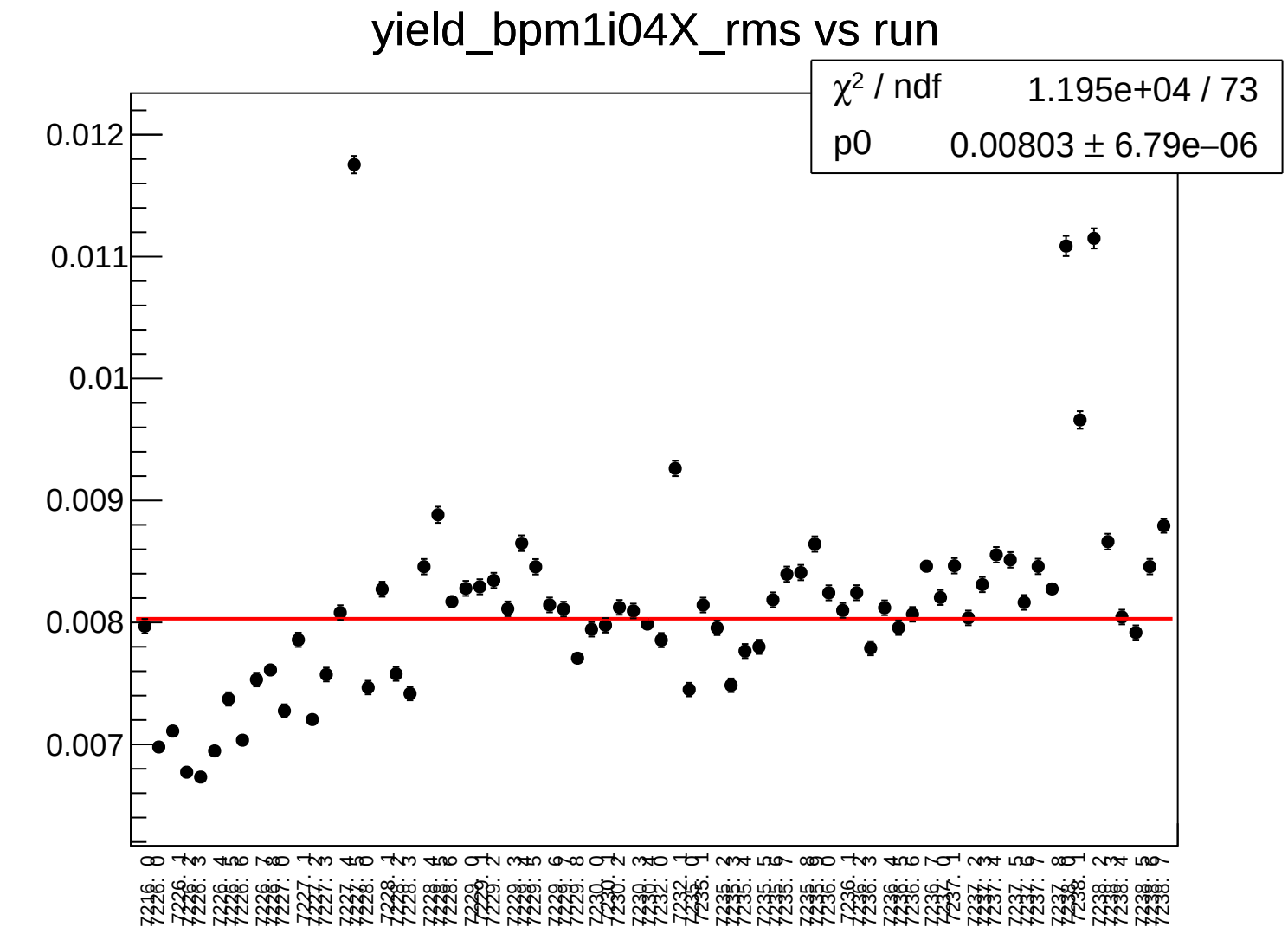

yield_bpm1i02X_rms vs run
χ² / ndf 7250 / 73
p0 0.009442 ± 7.97e–06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

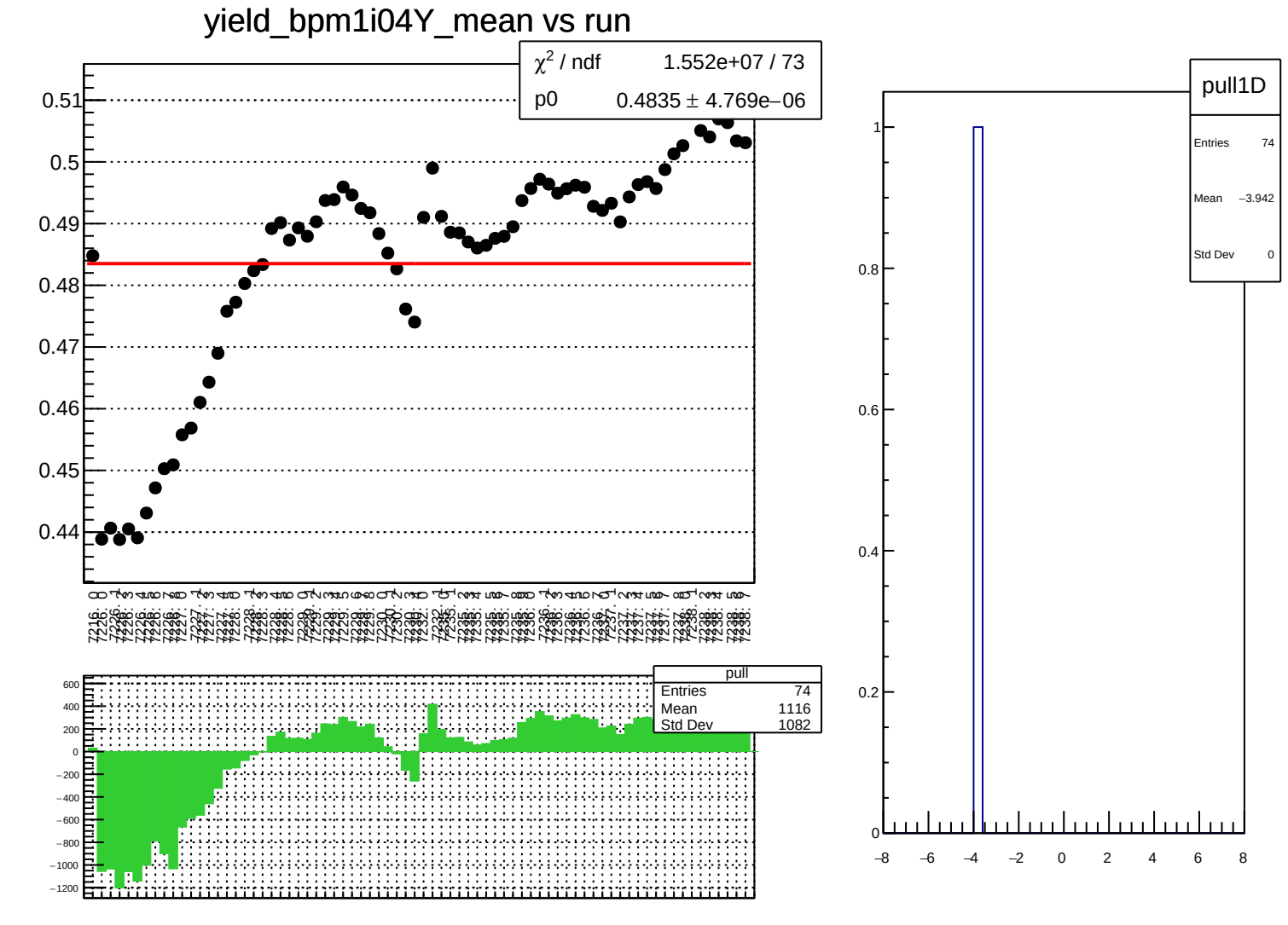

yield_bpm1i02Y_mean vs run
χ² / ndf 1.652e+07 / 73
p0 −1.051 ± 9.16e−06
pull
Entries 74
Mean 1215
Std Dev 1180

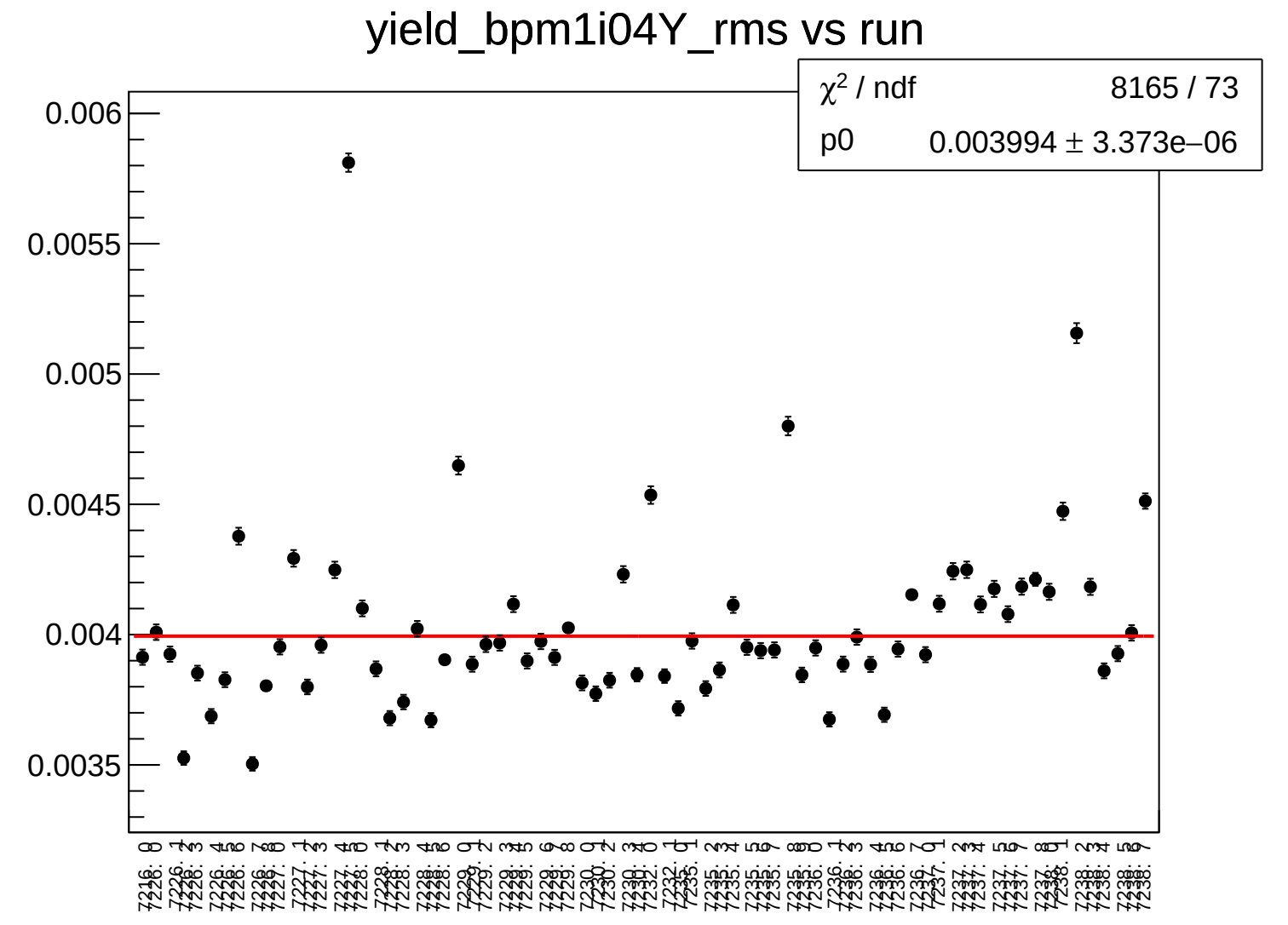

pull1D
Entries 74
Mean −5.725
Std Dev 0

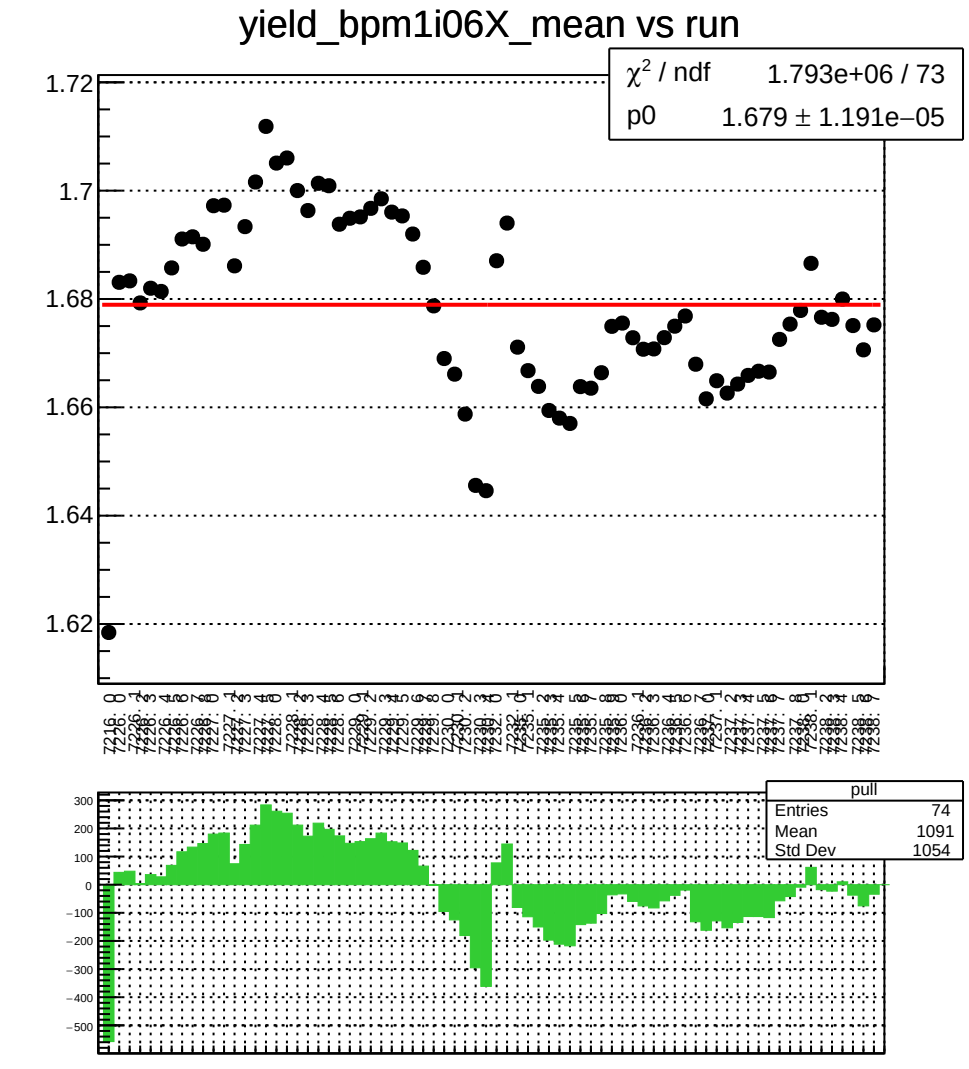

yield_bpm1i02Y_rms vs run
χ² / ndf 2375 / 73
p0 0.007687 ± 6.477e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

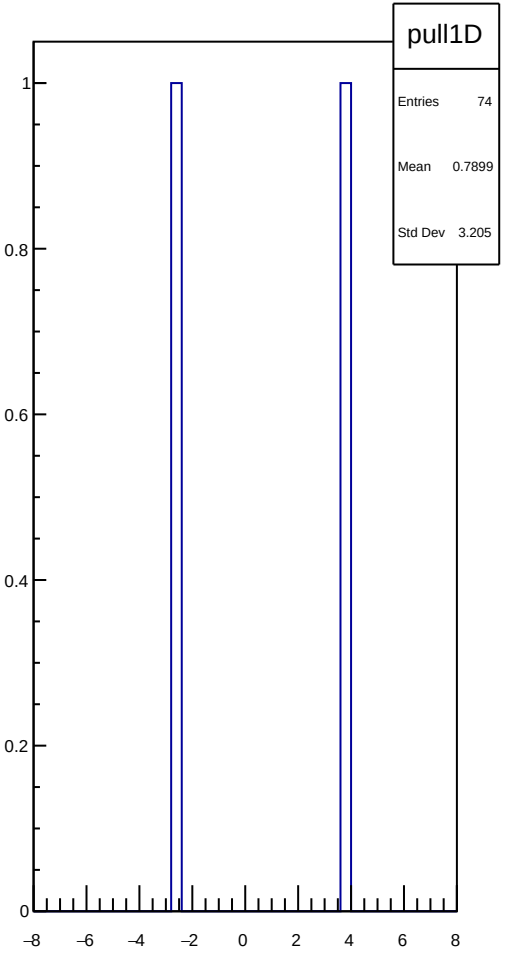

yield_bpm1i04X_mean vs run
χ² / ndf 3.629e+05 / 73
p0 1.309 ± 9.602e−06
1.32
1.315
1.31
1.305
1.3
1.295
1.29
1.285
pull
Entries 74
Mean 25
Std Dev 72.97
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 74
Mean 0.7952
Std Dev 3.28
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

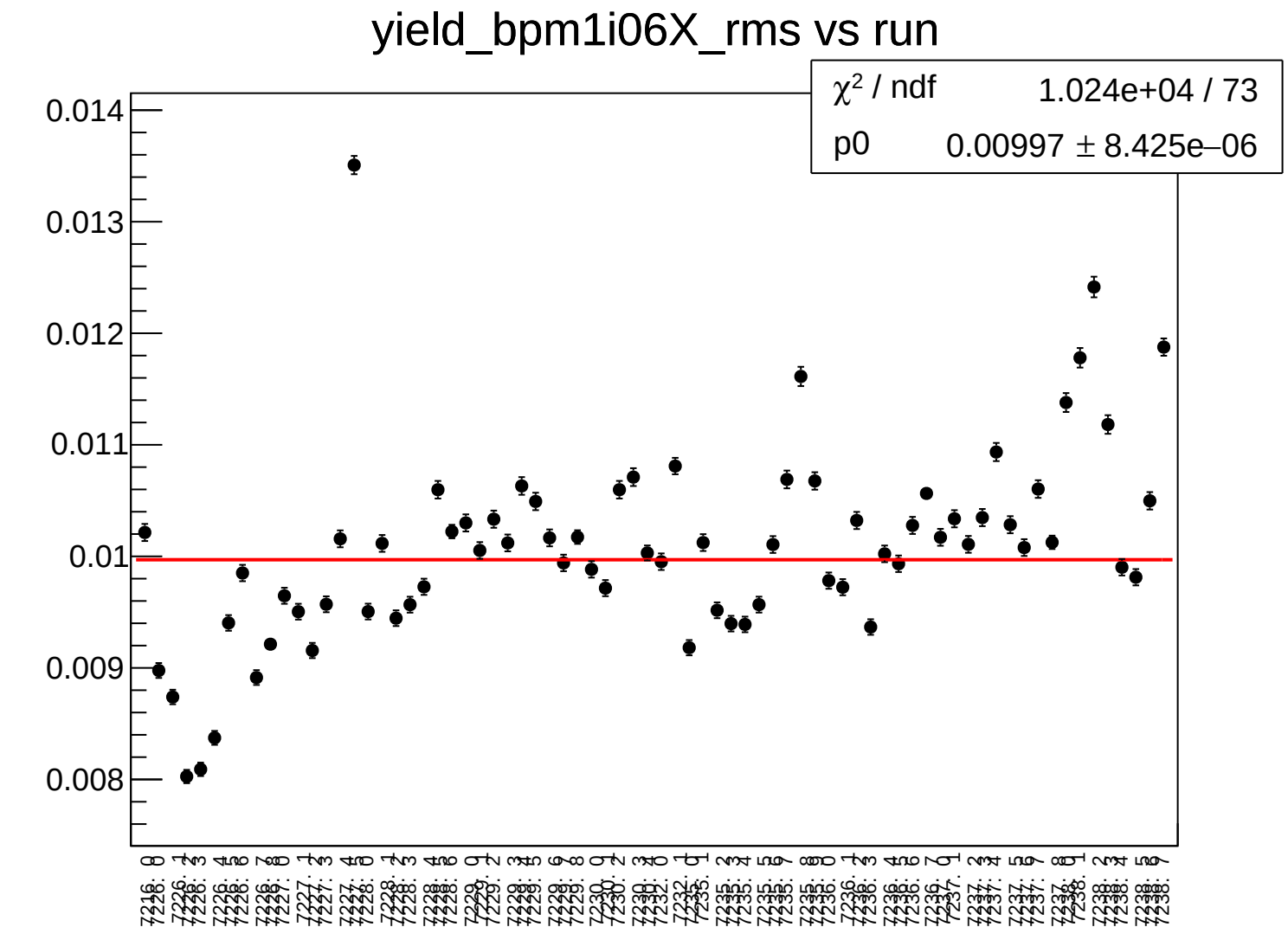

yield_bpm1i04X_rms vs run
χ² / ndf 1.195e+04 / 73
p0 0.00803 ± 6.79e–06
0.012
0.011
0.01
0.009
0.008
0.007

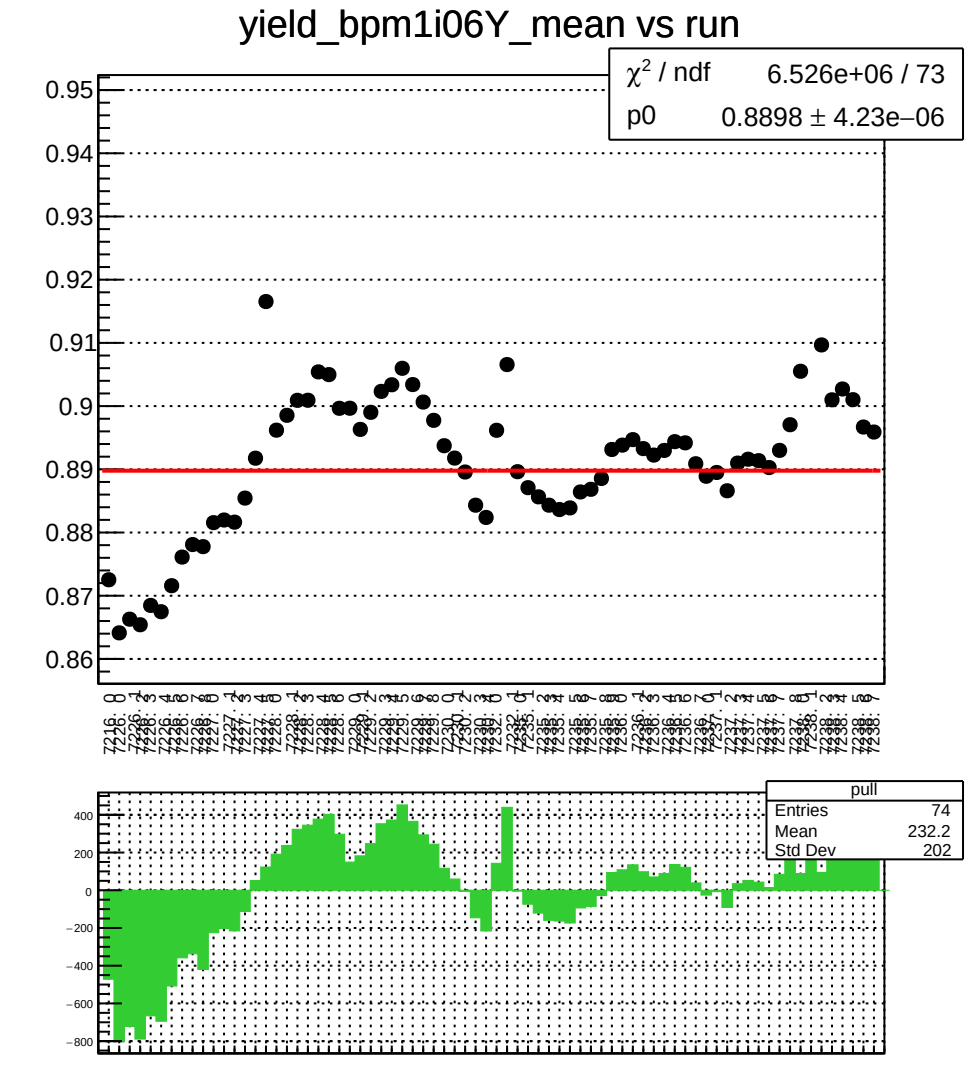

yield_bpm1i04Y_mean vs run
χ² / ndf 1.552e+07 / 73
p0 0.4835 ± 4.769e−06
pull
Entries 74
Mean 1116
Std Dev 1082
pull1D
Entries 74
Mean −3.942
Std Dev 0

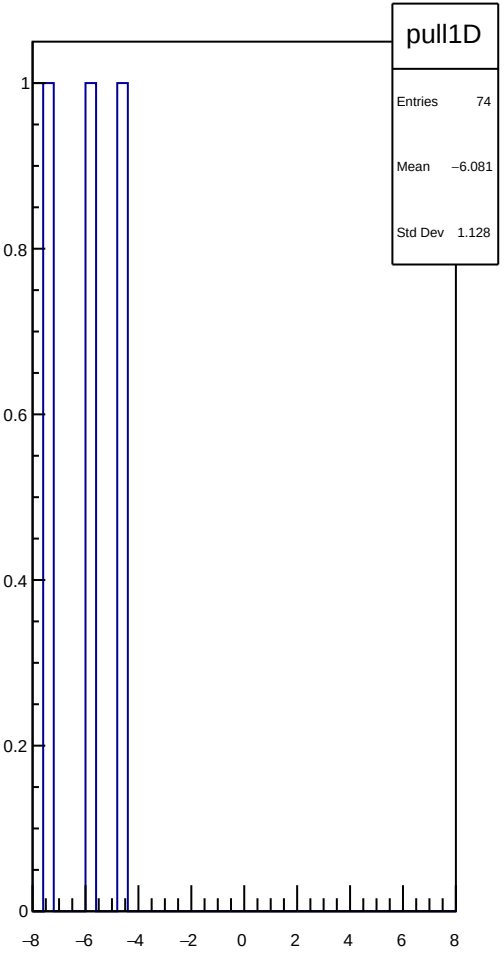

yield_bpm1i04Y_rms vs run
χ² / ndf 8165 / 73
p0 0.003994 ± 3.373e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

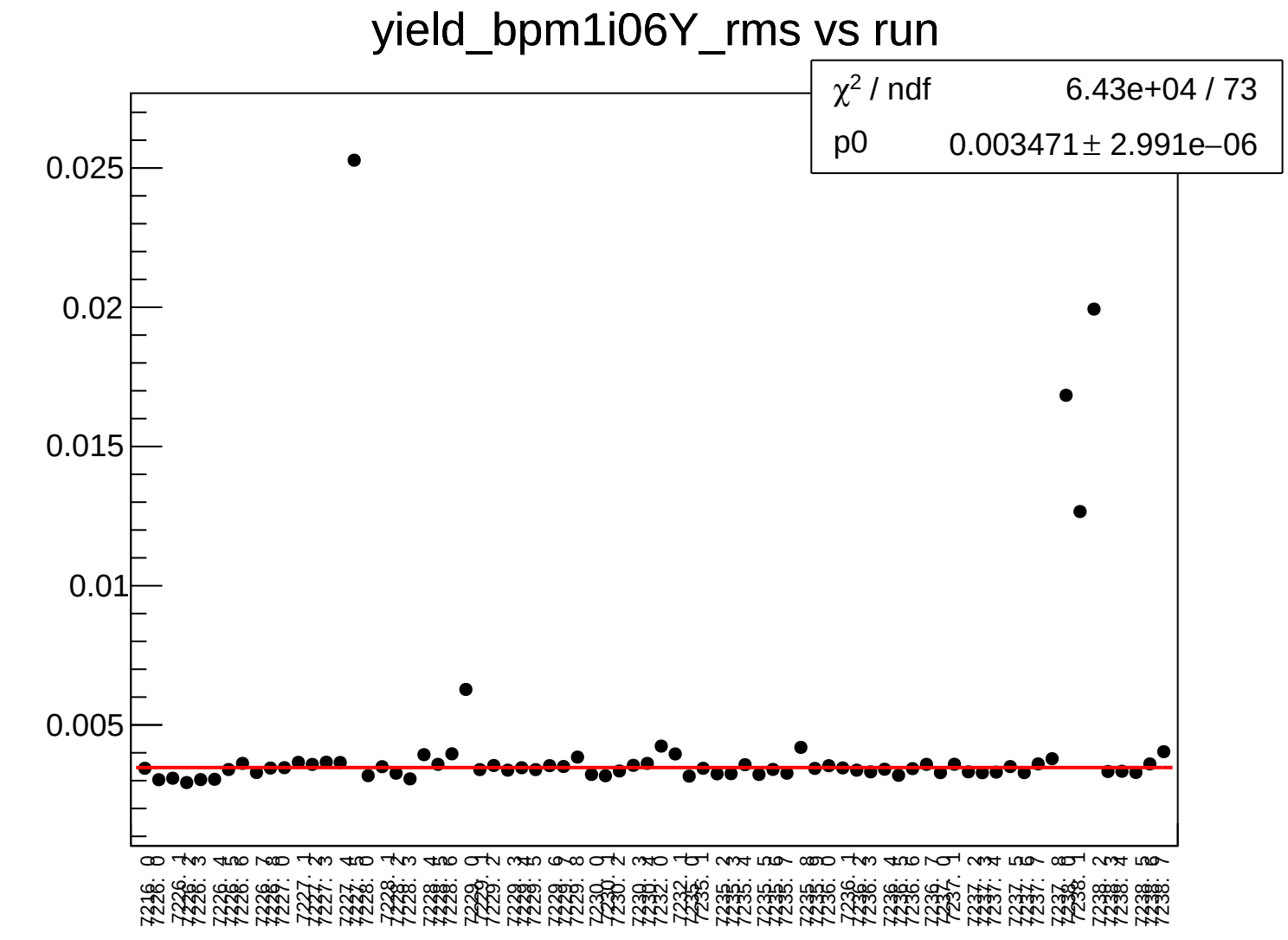

yield_bpm1i06X_mean vs run
χ² / ndf 1.793e+06 / 73
p0 1.679 ± 1.191e−05
1.72
1.7
1.68
1.66
1.64
1.62
pull
Entries 74
Mean 1091
Std Dev 1054
300
200
100
0
−100
−200
−300
−400
−500

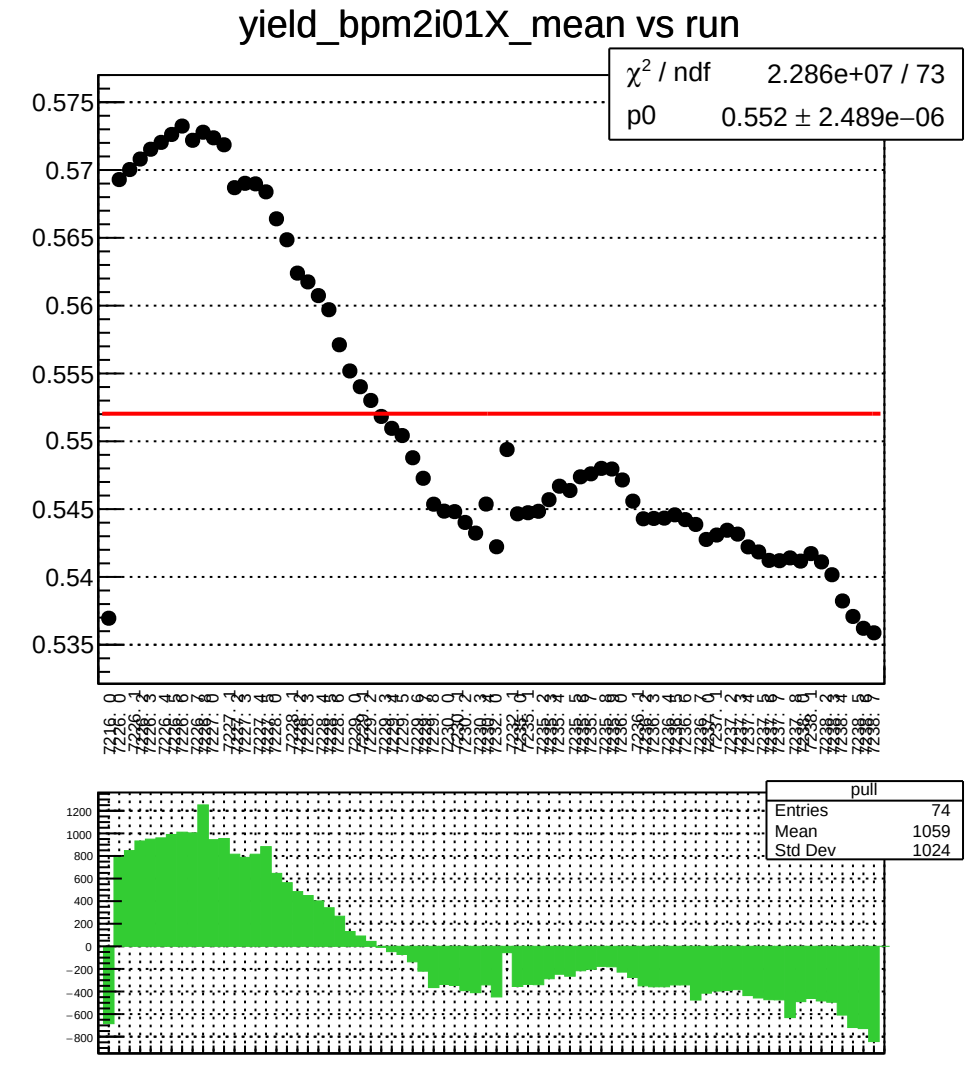

pull1D
Entries 74
Mean 0.7899
Std Dev 3.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

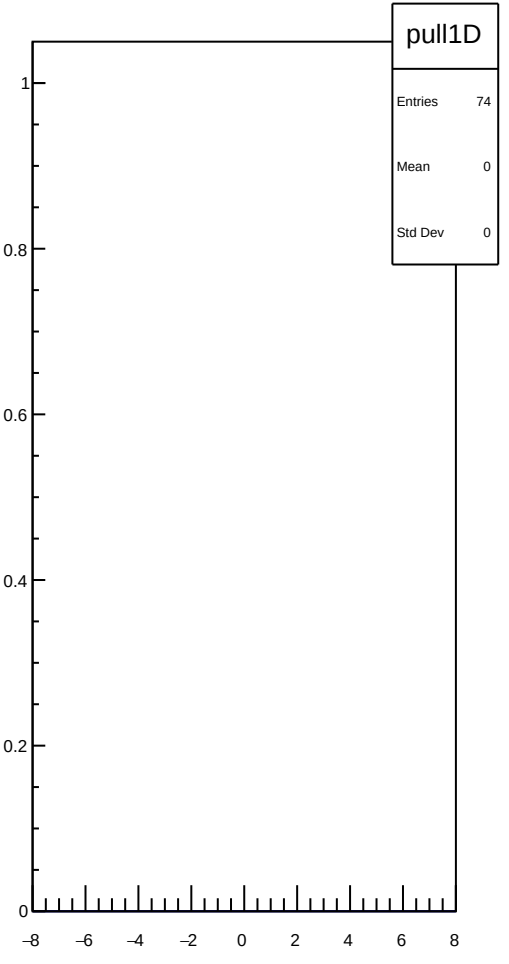

yield_bpm1i06X_rms vs run
χ² / ndf 1.024e+04 / 73
p0 0.00997 ± 8.425e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008

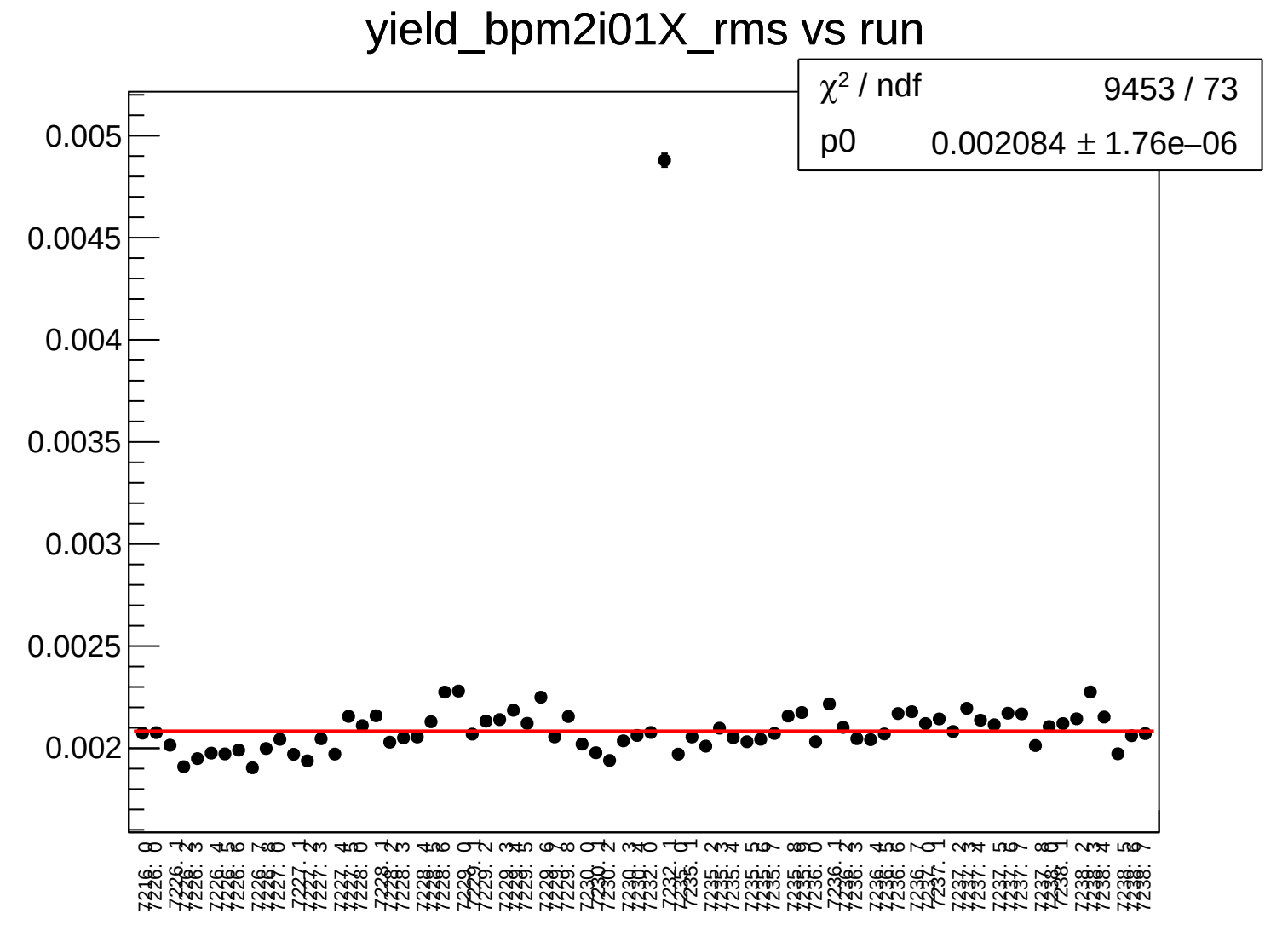

yield_bpm1i06Y_mean vs run
χ² / ndf 6.526e+06 / 73
p0 0.8898 ± 4.23e−06
pull
Entries 74
Mean 232.2
Std Dev 202

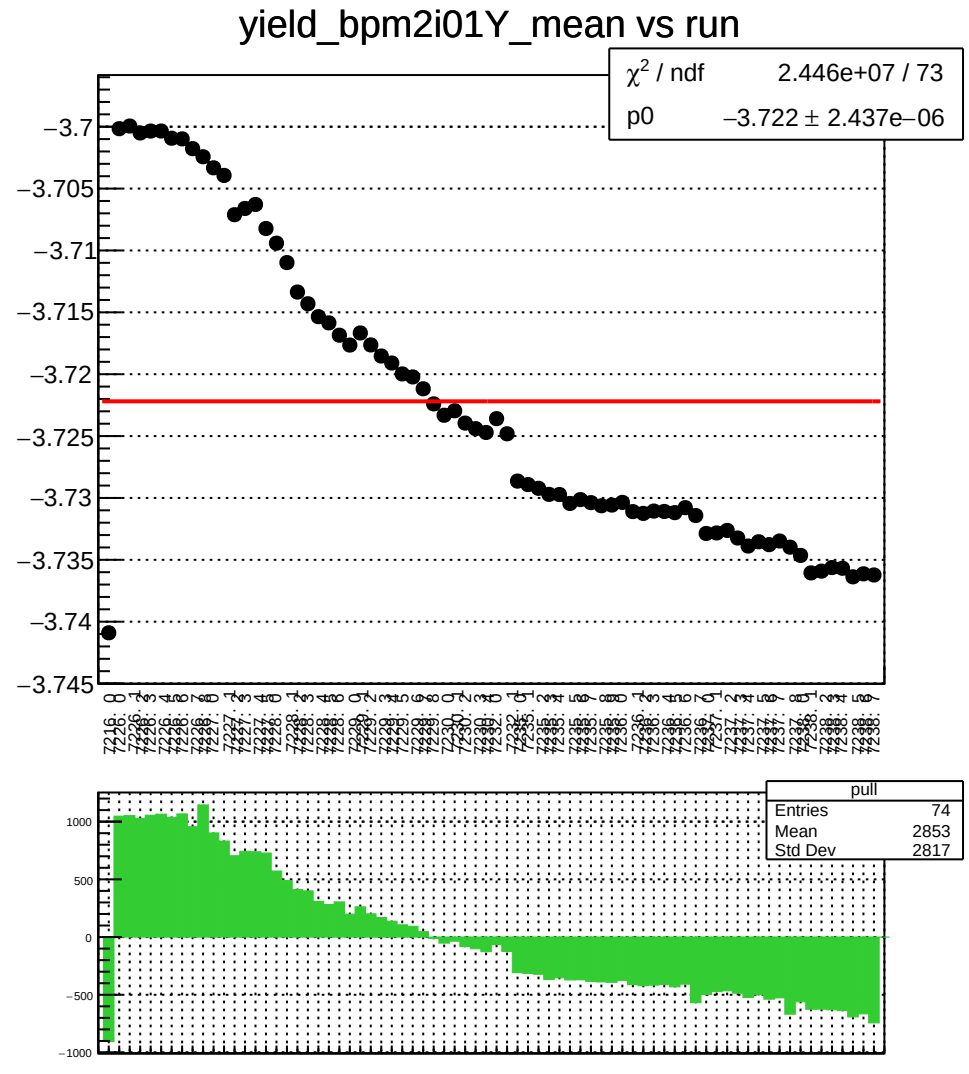

pull1D
Entries 74
Mean −6.081
Std Dev 1.128

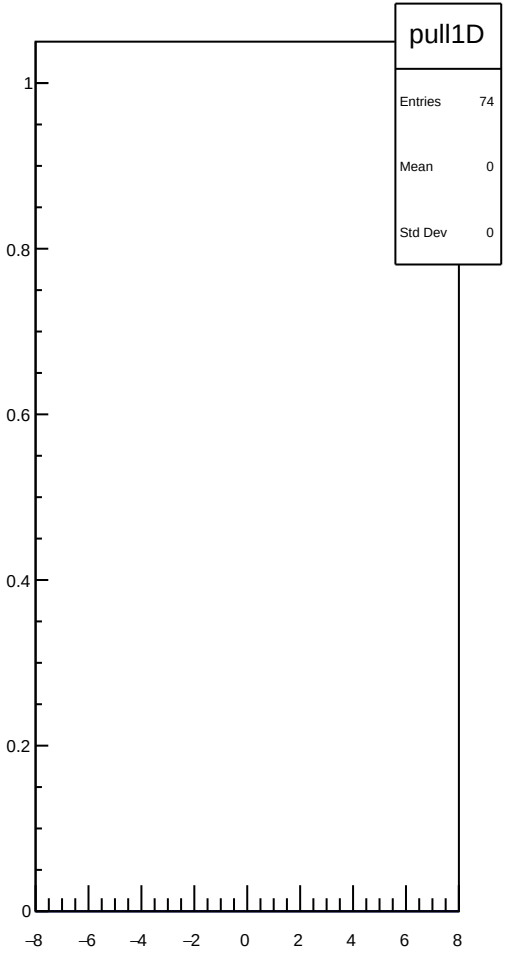

yield_bpm1i06Y_rms vs run
χ² / ndf 6.43e+04 / 73
p0 0.003471 ± 2.991e−06
0.025
0.02
0.015
0.01
0.005

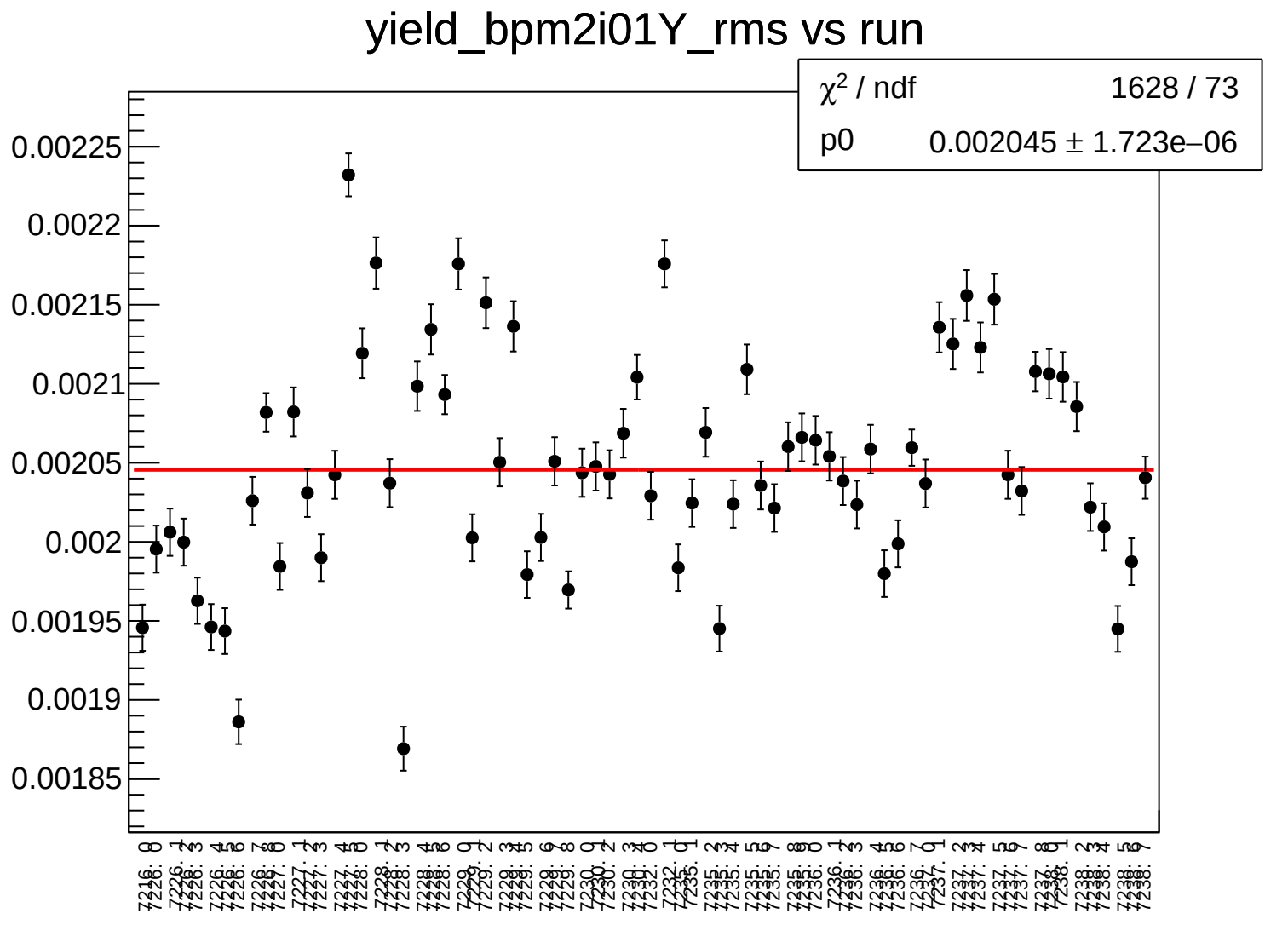

yield_bpm2i01X_mean vs run
χ² / ndf 2.286e+07 / 73
p0 0.552 ± 2.489e−06
0.575
0.57
0.565
0.56
0.555
0.55
0.545
0.54
0.535
pull
Entries 74
Mean 1059
Std Dev 1024
1200
1000
800
600
400
200
0
−200
−400
−600
−800

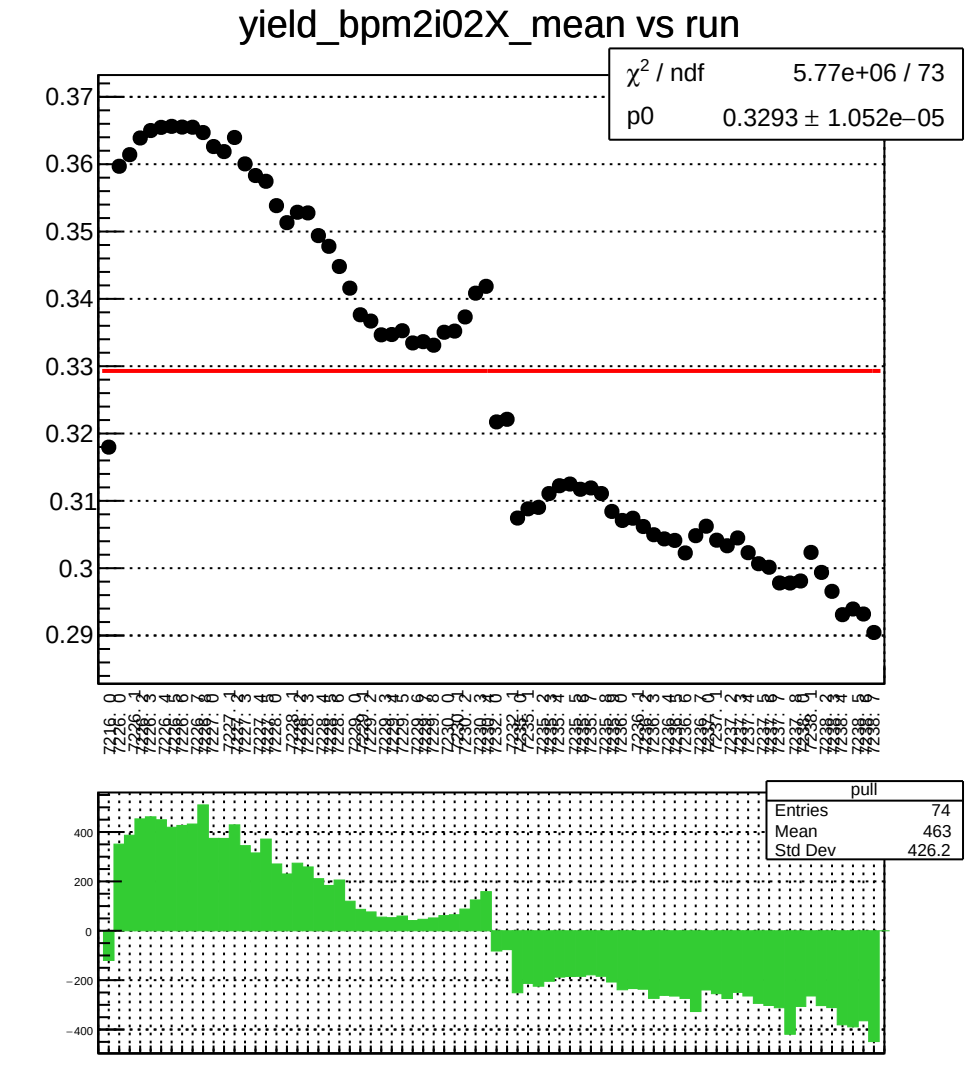

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

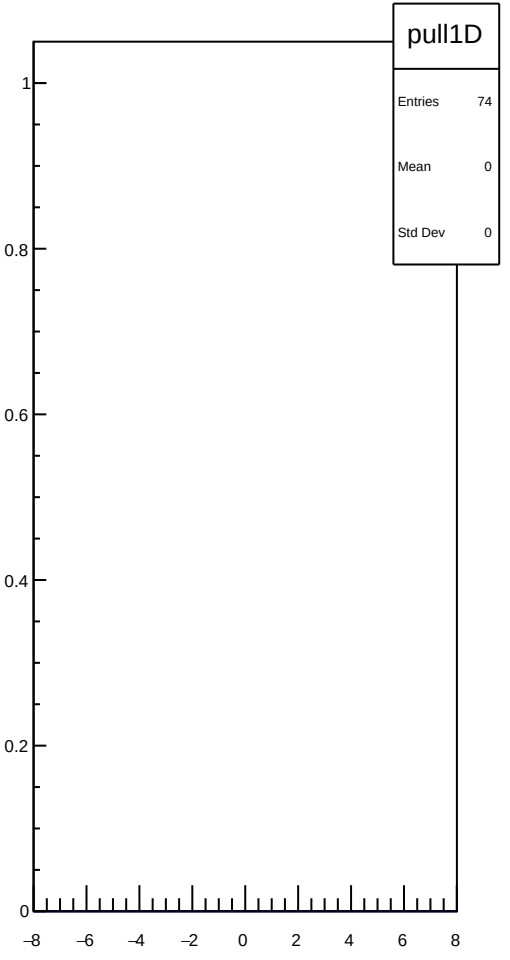

yield_bpm2i01X_rms vs run
χ² / ndf 9453 / 73
p0 0.002084 ± 1.76e–06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

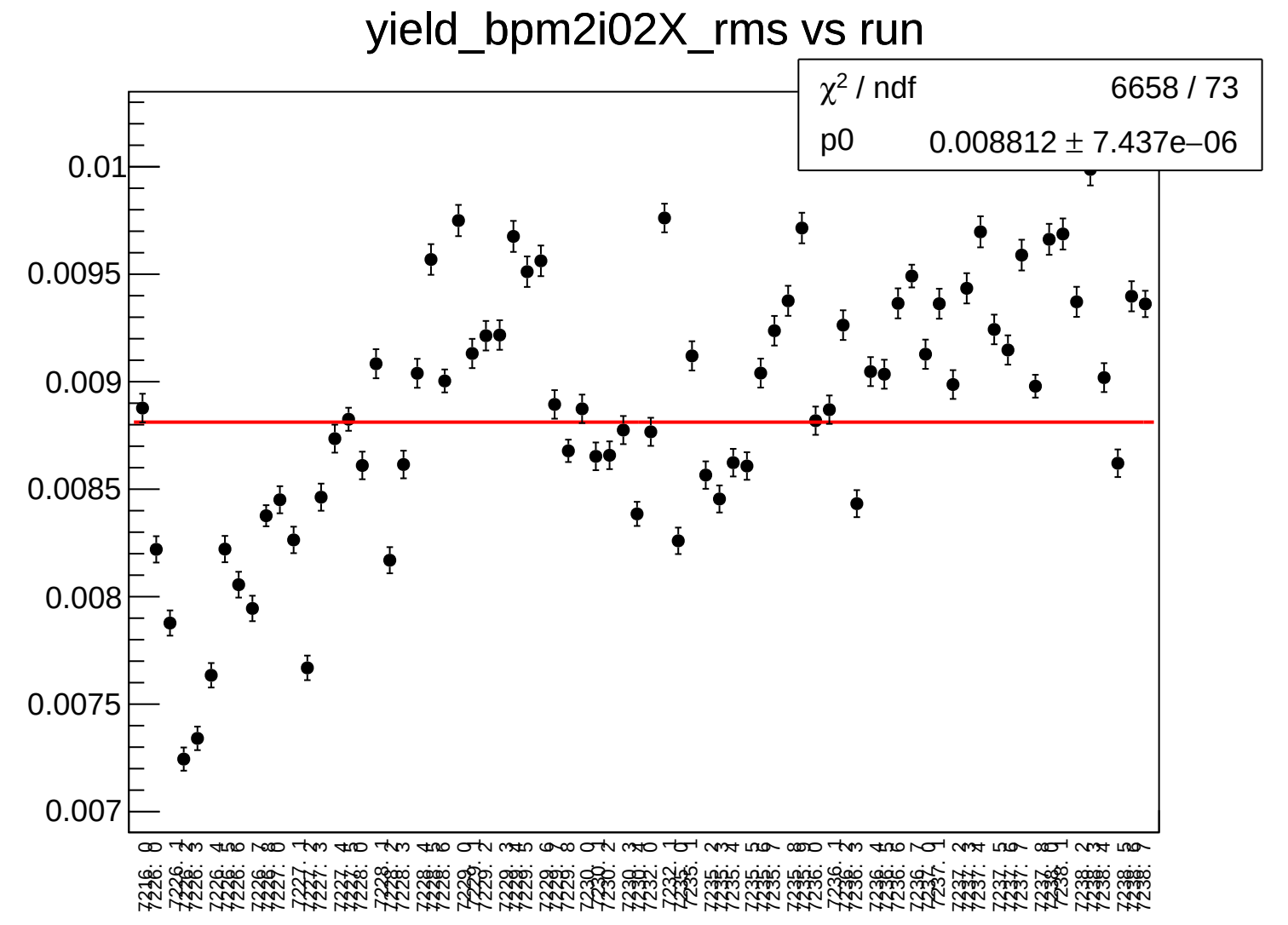

yield_bpm2i01Y_mean vs run
χ² / ndf 2.446e+07 / 73
p0 −3.722 ± 2.437e−06
−3.7
−3.705
−3.71
−3.715
−3.72
−3.725
−3.73
−3.735
−3.74
−3.745
pull
Entries 74
Mean 2853
Std Dev 2817
1000
500
0
−500
−1000

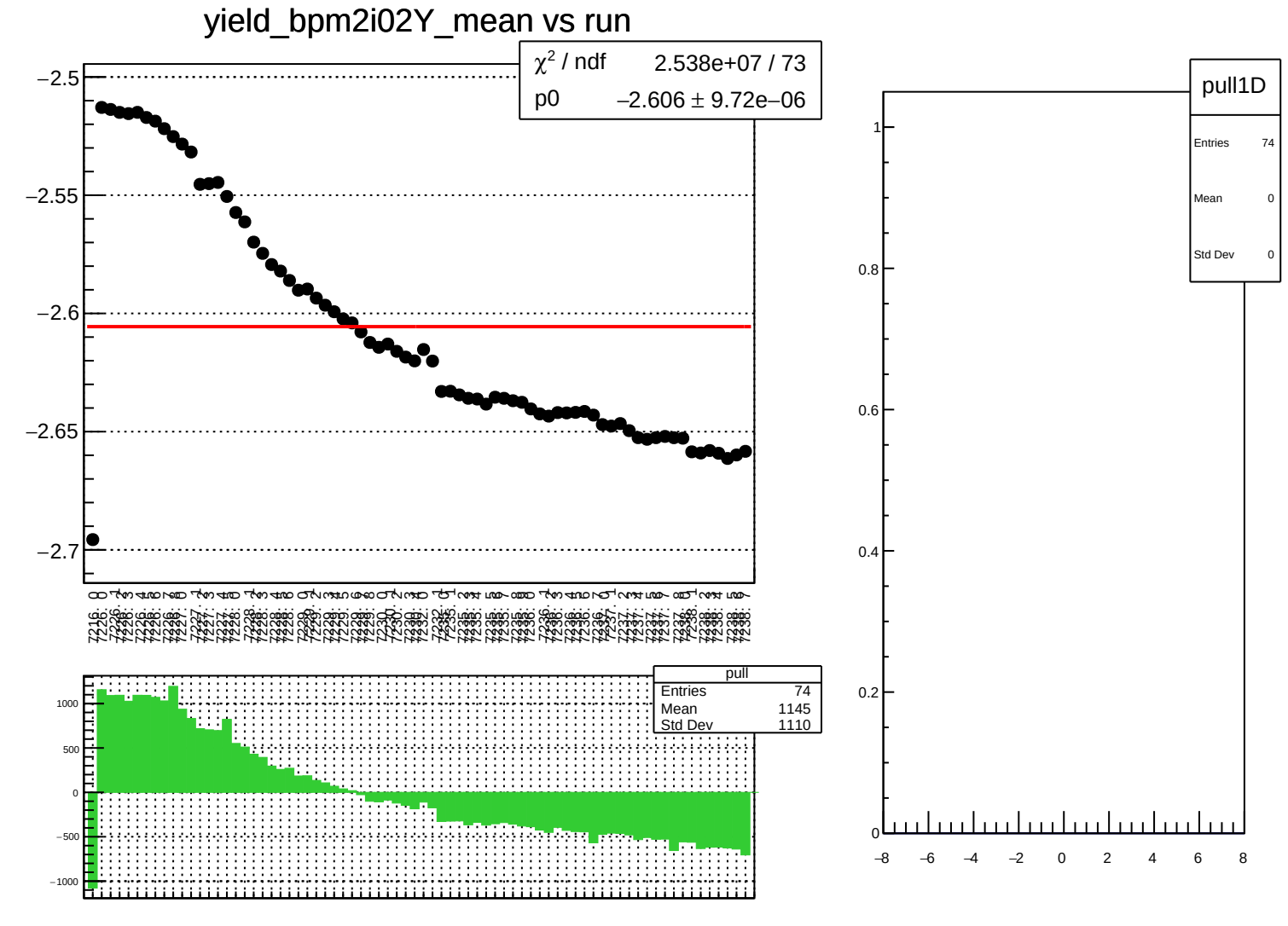

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

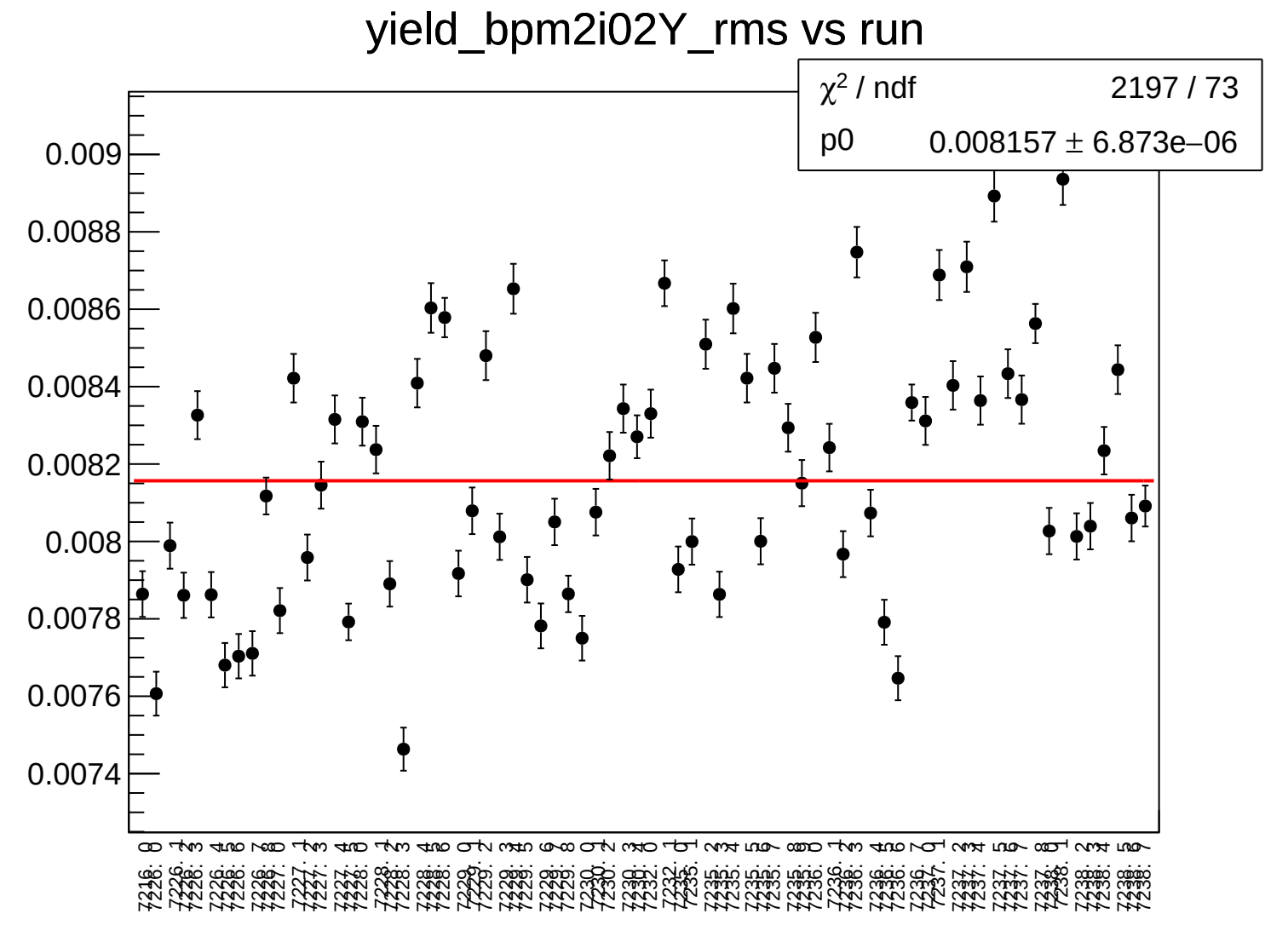

yield_bpm2i01Y_rms vs run
χ² / ndf 1628 / 73
p0 0.002045 ± 1.723e−06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185

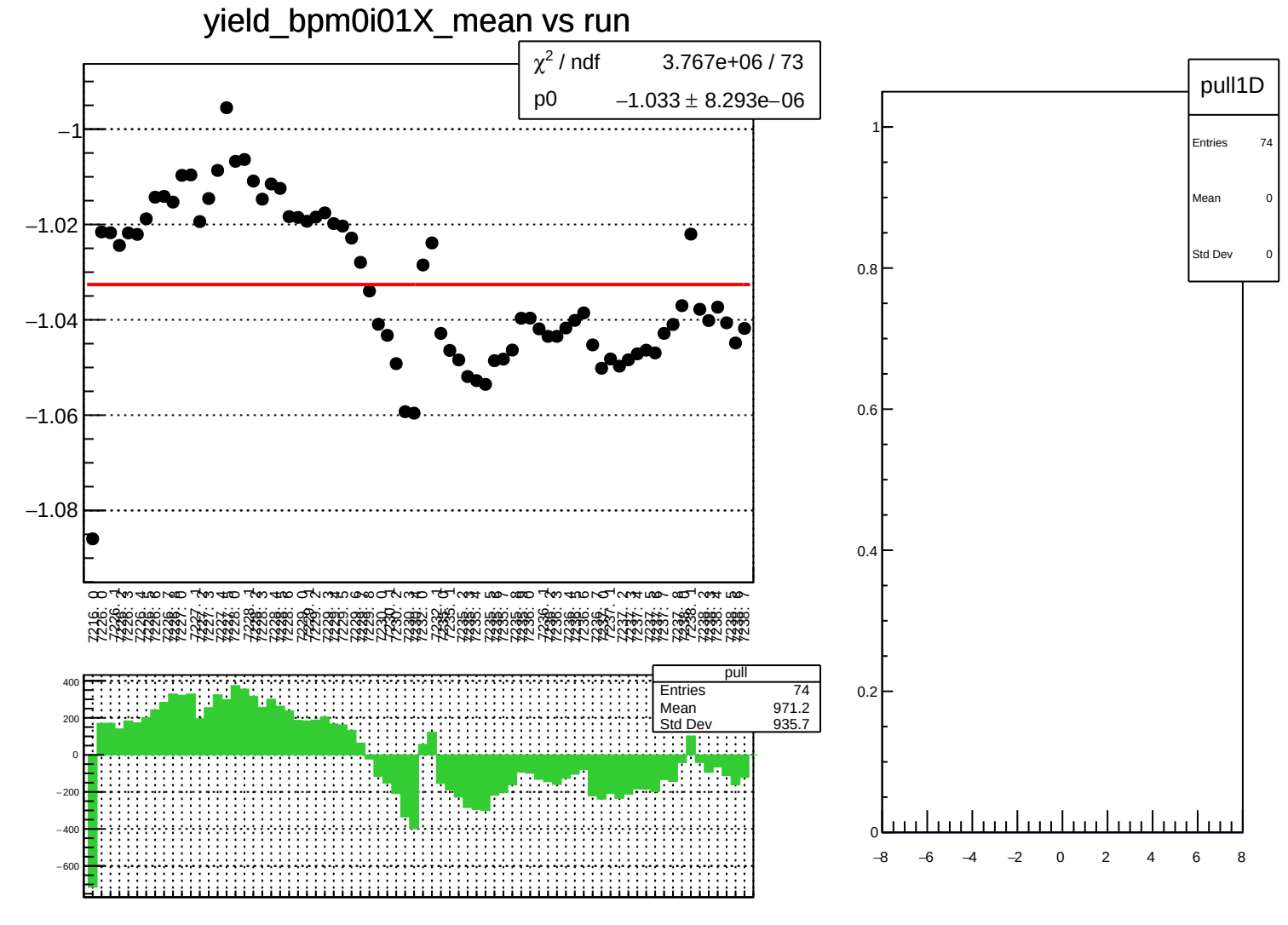

yield_bpm2i02X_mean vs run
χ² / ndf 5.77e+06 / 73
p0 0.3293 ± 1.052e−05
pull
Entries 74
Mean 463
Std Dev 426.2

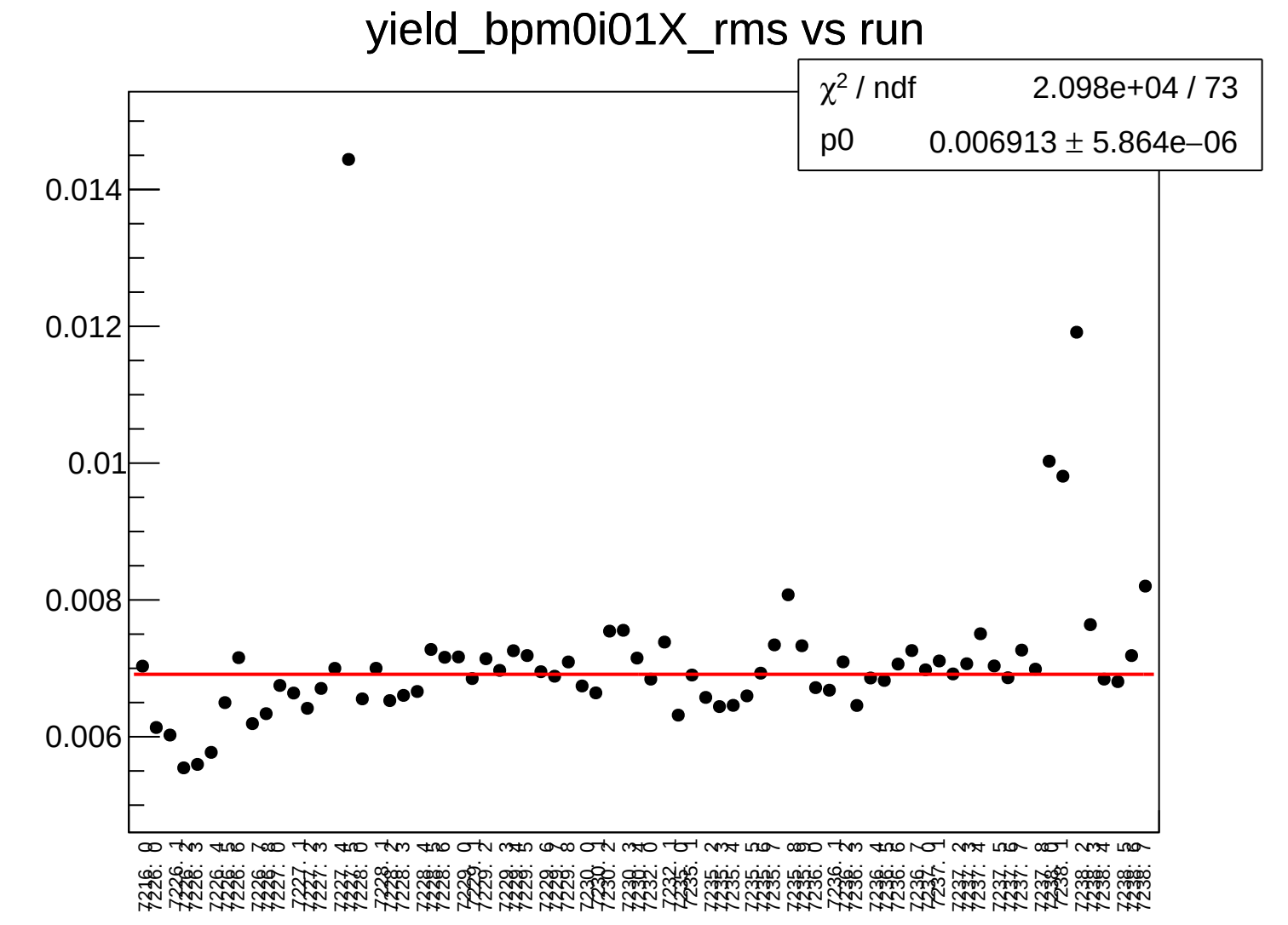

pull1D
Entries 74
Mean 0
Std Dev 0

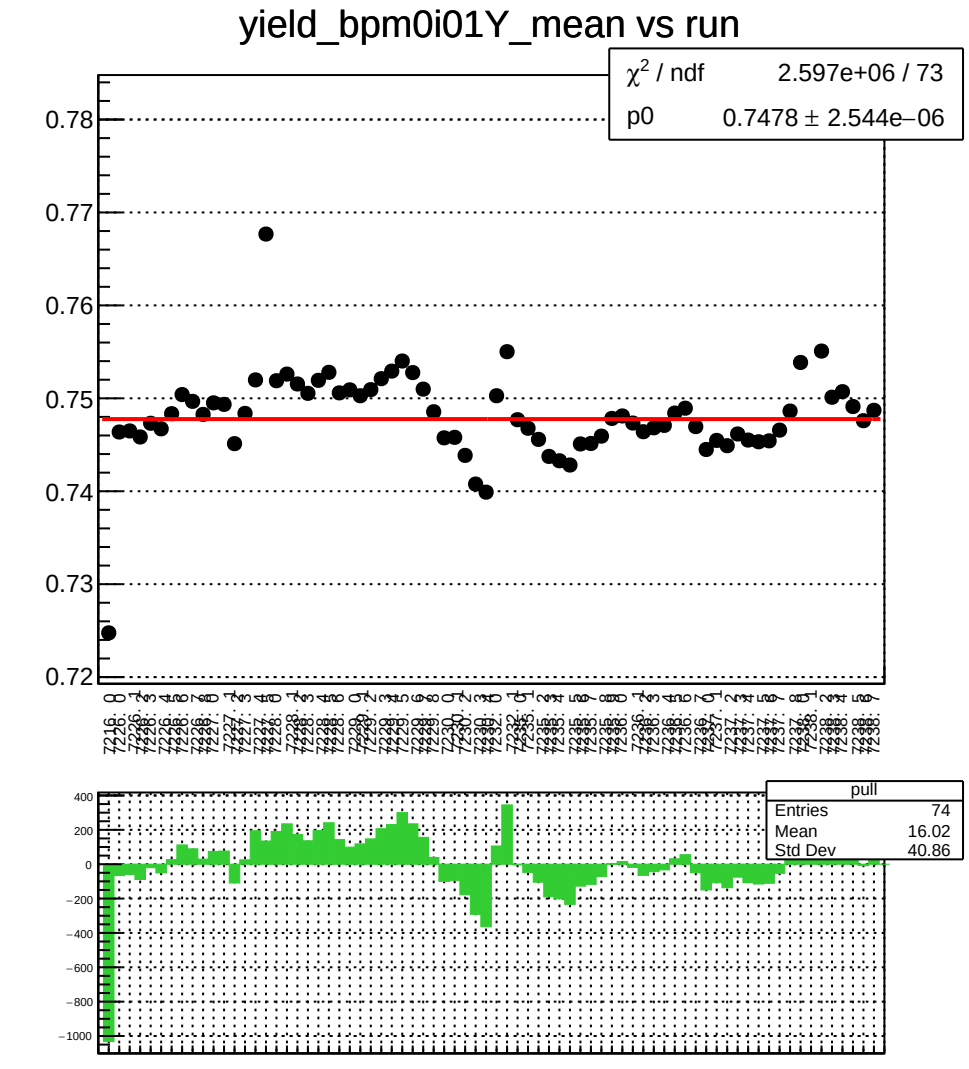

yield_bpm2i02X_rms vs run
χ² / ndf 6658 / 73
p0 0.008812 ± 7.437e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

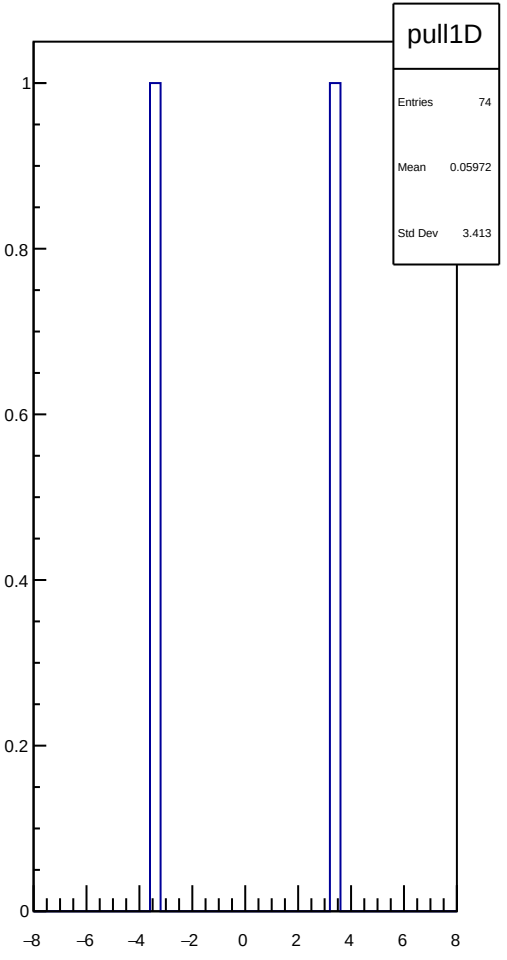

yield_bpm2i02Y_mean vs run
χ² / ndf 2.538e+07 / 73
p0 –2.606 ± 9.72e–06
–2.5
–2.55
–2.6
–2.65
–2.7
pull
Entries 74
Mean 1145
Std Dev 1110
1000
500
0
–500
–1000
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

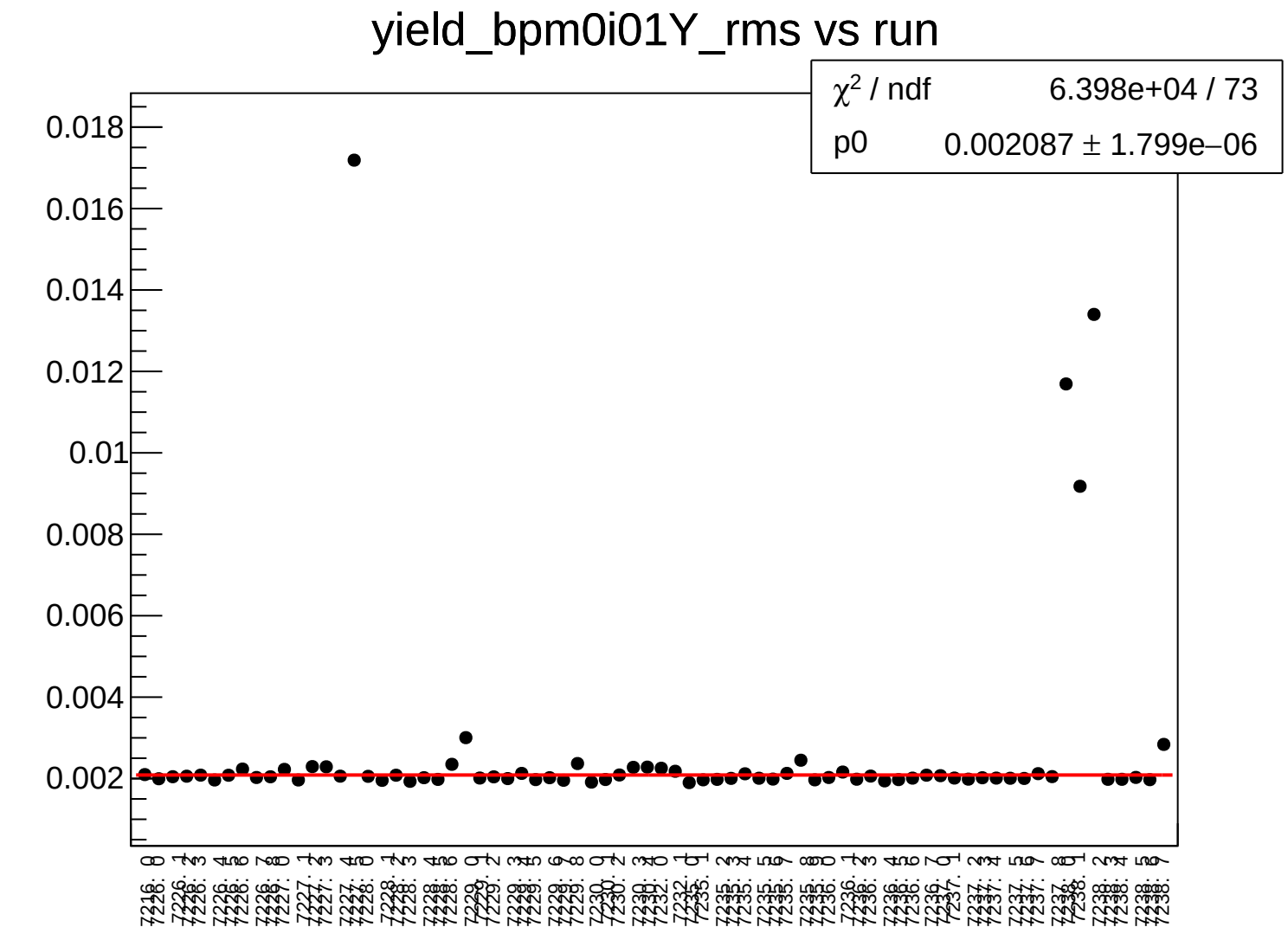

yield_bpm2i02Y_rms vs run
χ² / ndf 2197 / 73
p0 0.008157 ± 6.873e−06
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074

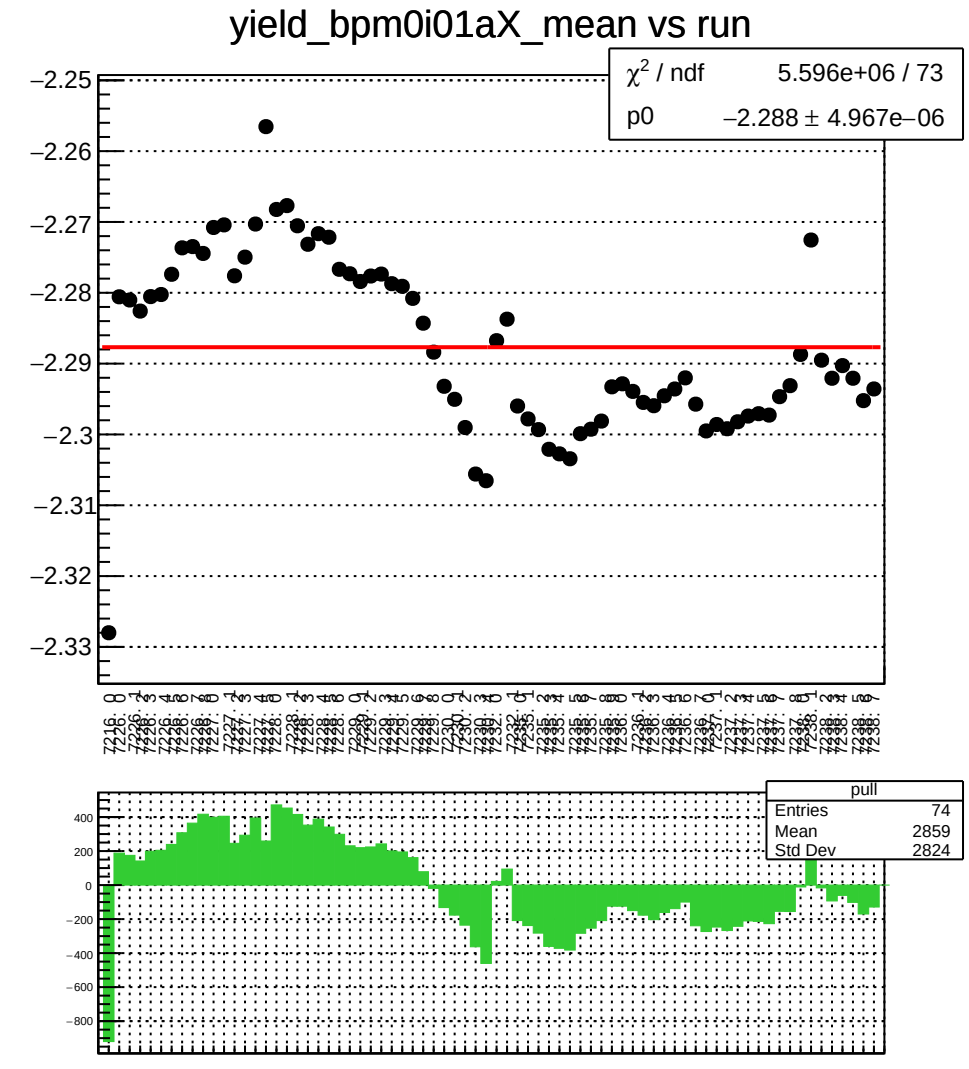

yield_bpm0i01X_mean vs run
χ² / ndf 3.767e+06 / 73
p0 −1.033 ± 8.293e−06
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 74
Mean 971.2
Std Dev 935.7
400
200
0
−200
−400
−600
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

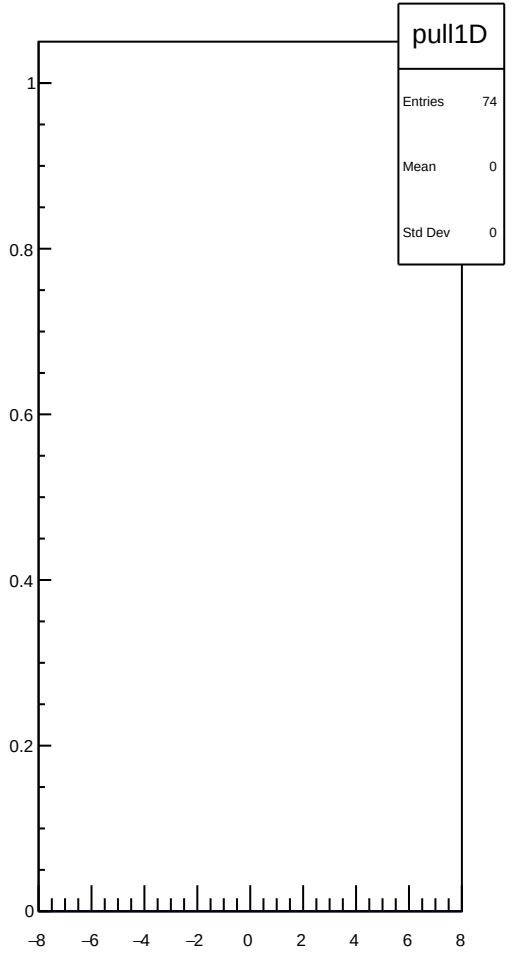

yield_bpm0i01X_rms vs run
χ^2 / ndf 2.098e+04 / 73
p0 0.006913 ± 5.864e−06
0.014
0.012
0.01
0.008
0.006

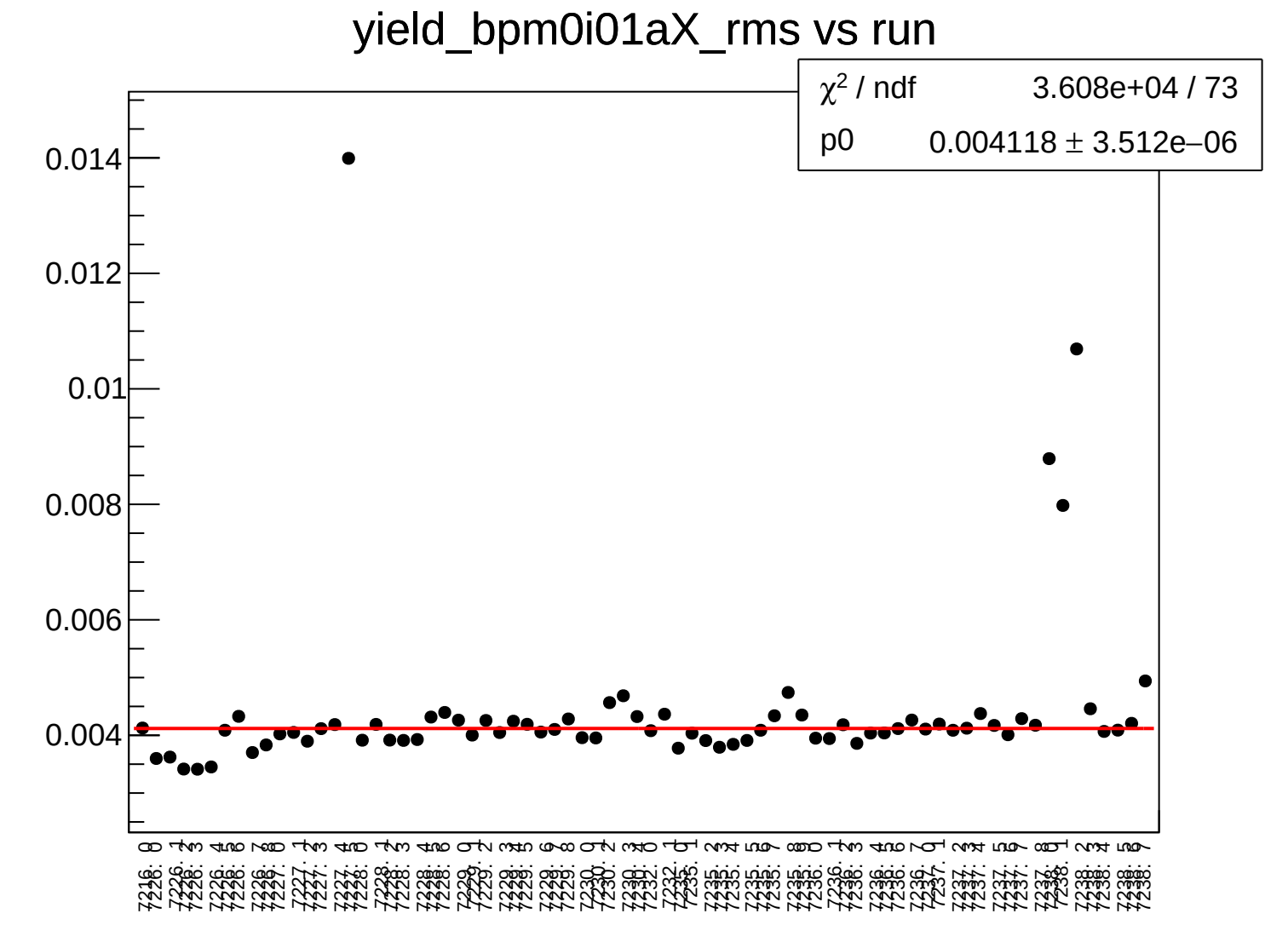

yield_bpm0i01Y_mean vs run
χ² / ndf 2.597e+06 / 73
p0 0.7478 ± 2.544e−06
0.78
0.77
0.76
0.75
0.74
0.73
0.72
pull
Entries 74
Mean 16.02
Std Dev 40.86
400
200
0
−200
−400
−600
−800
−1000

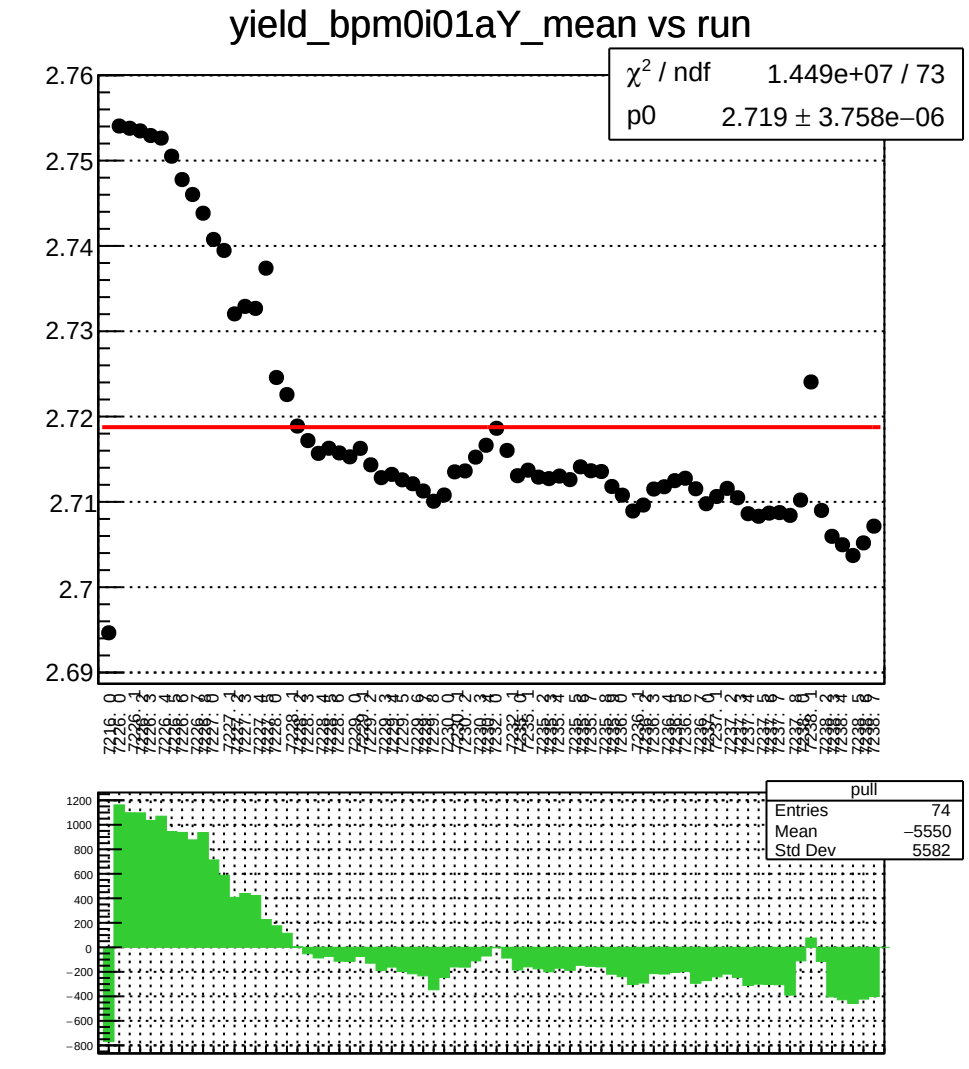

pull1D
Entries 74
Mean 0.05972
Std Dev 3.413
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

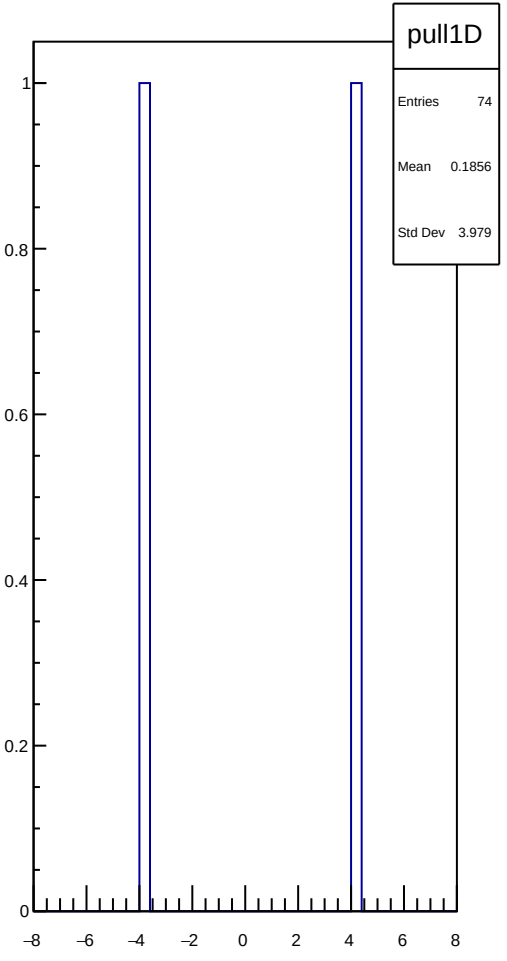

yield_bpm0i01Y_rms vs run
χ² / ndf 6.398e+04 / 73
p0 0.002087 ± 1.799e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

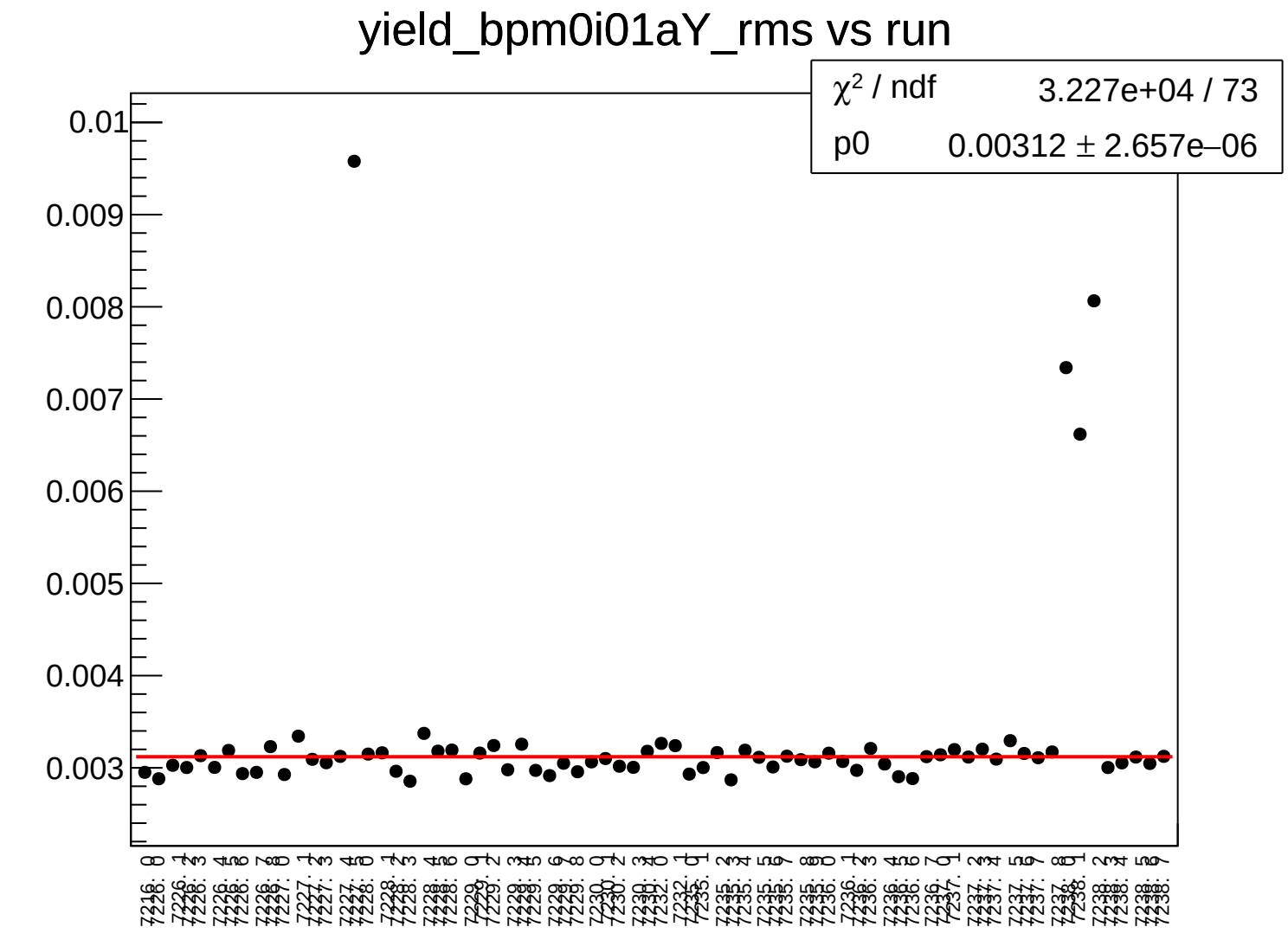

yield_bpm0i01aX_mean vs run
χ² / ndf 5.596e+06 / 73
p0 −2.288 ± 4.967e−06
−2.25
−2.26
−2.27
−2.28
−2.29
−2.3
−2.31
−2.32
−2.33
pull
Entries 74
Mean 2859
Std Dev 2824
400
200
0
−200
−400
−600
−800

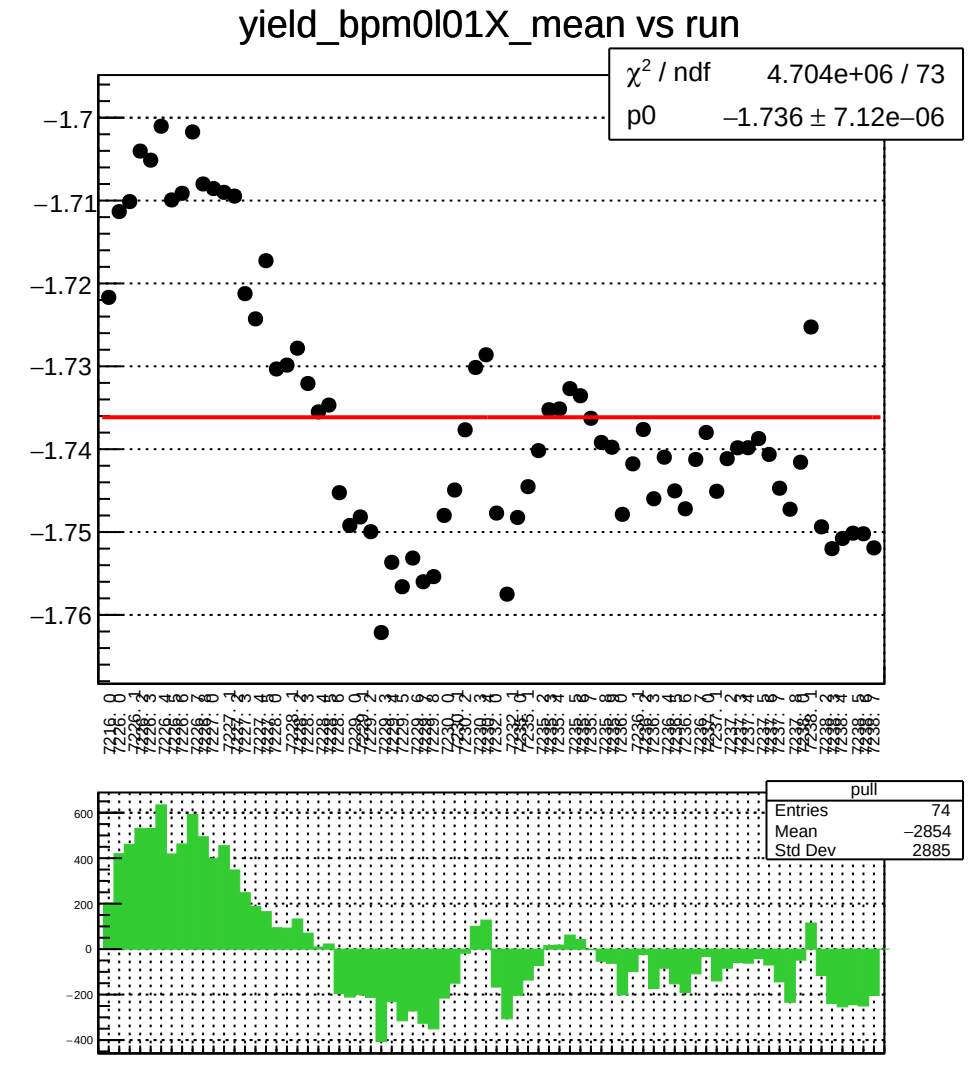

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

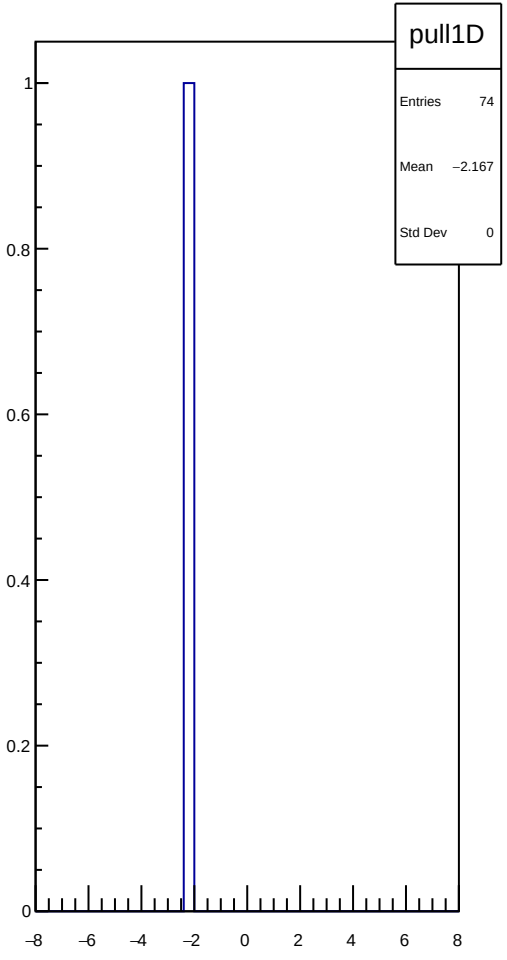

yield_bpm0i01aX_rms vs run
χ^2 / ndf 3.608e+04 / 73
p0 0.004118 ± 3.512e−06
0.014
0.012
0.01
0.008
0.006
0.004

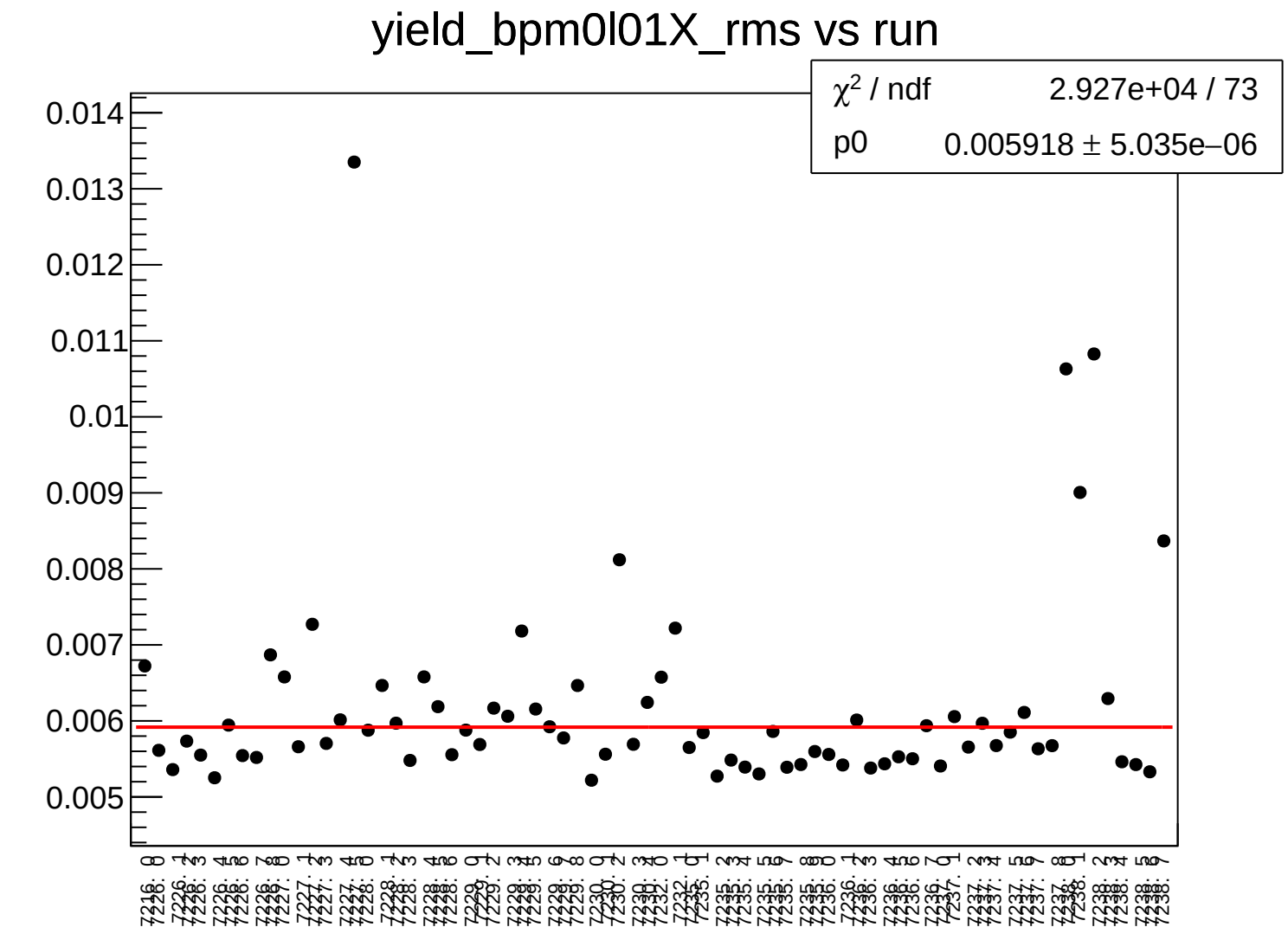

yield_bpm0i01aY_mean vs run
χ² / ndf 1.449e+07 / 73
p0 2.719 ± 3.758e−06
2.76
2.75
2.74
2.73
2.72
2.71
2.7
2.69
pull
Entries 74
Mean −5550
Std Dev 5582
1200
1000
800
600
400
200
0
−200
−400
−600
−800

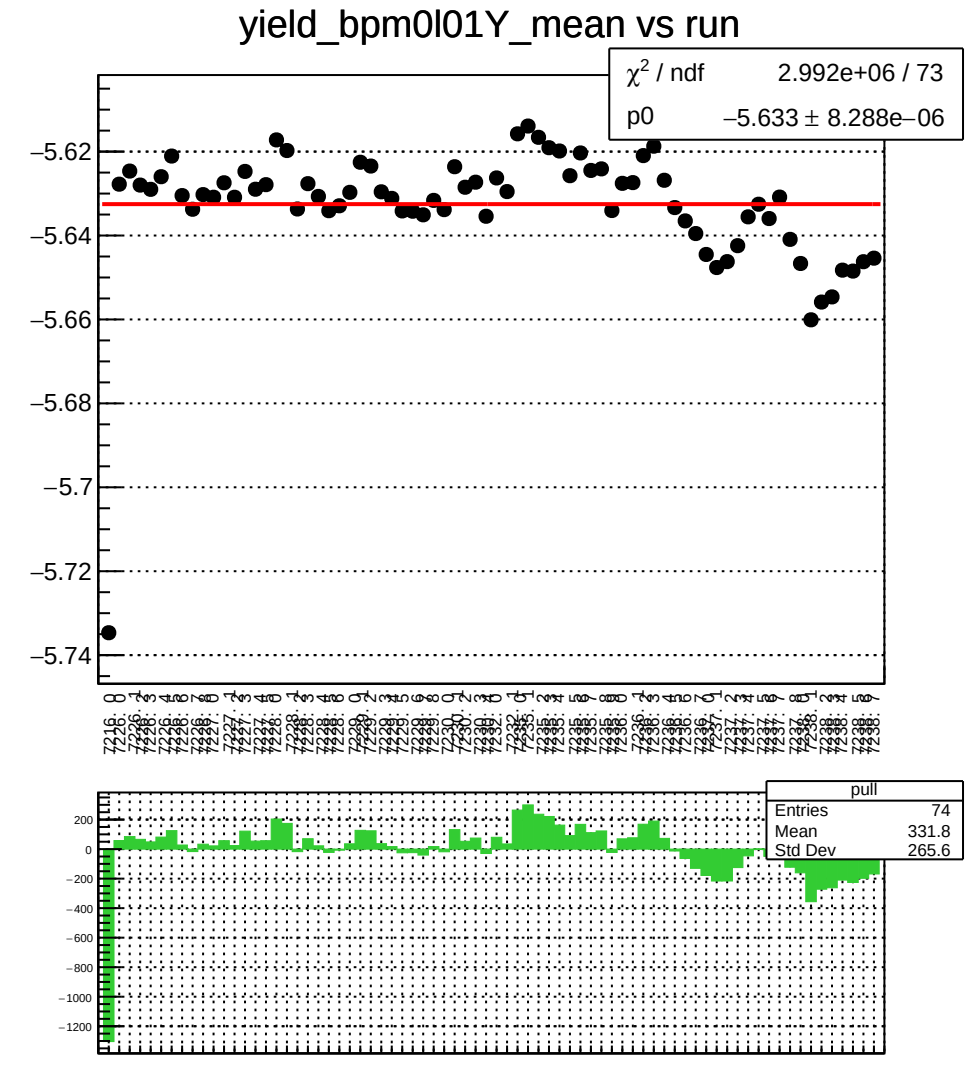

pull1D
Entries 74
Mean 0.1856
Std Dev 3.979
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

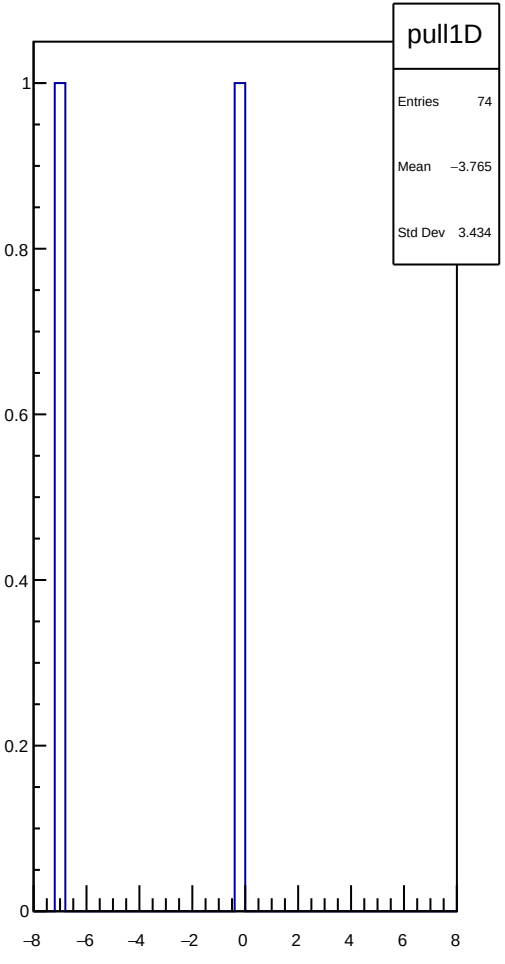

yield_bpm0i01aY_rms vs run
χ² / ndf 3.227e+04 / 73
p0 0.00312 ± 2.657e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

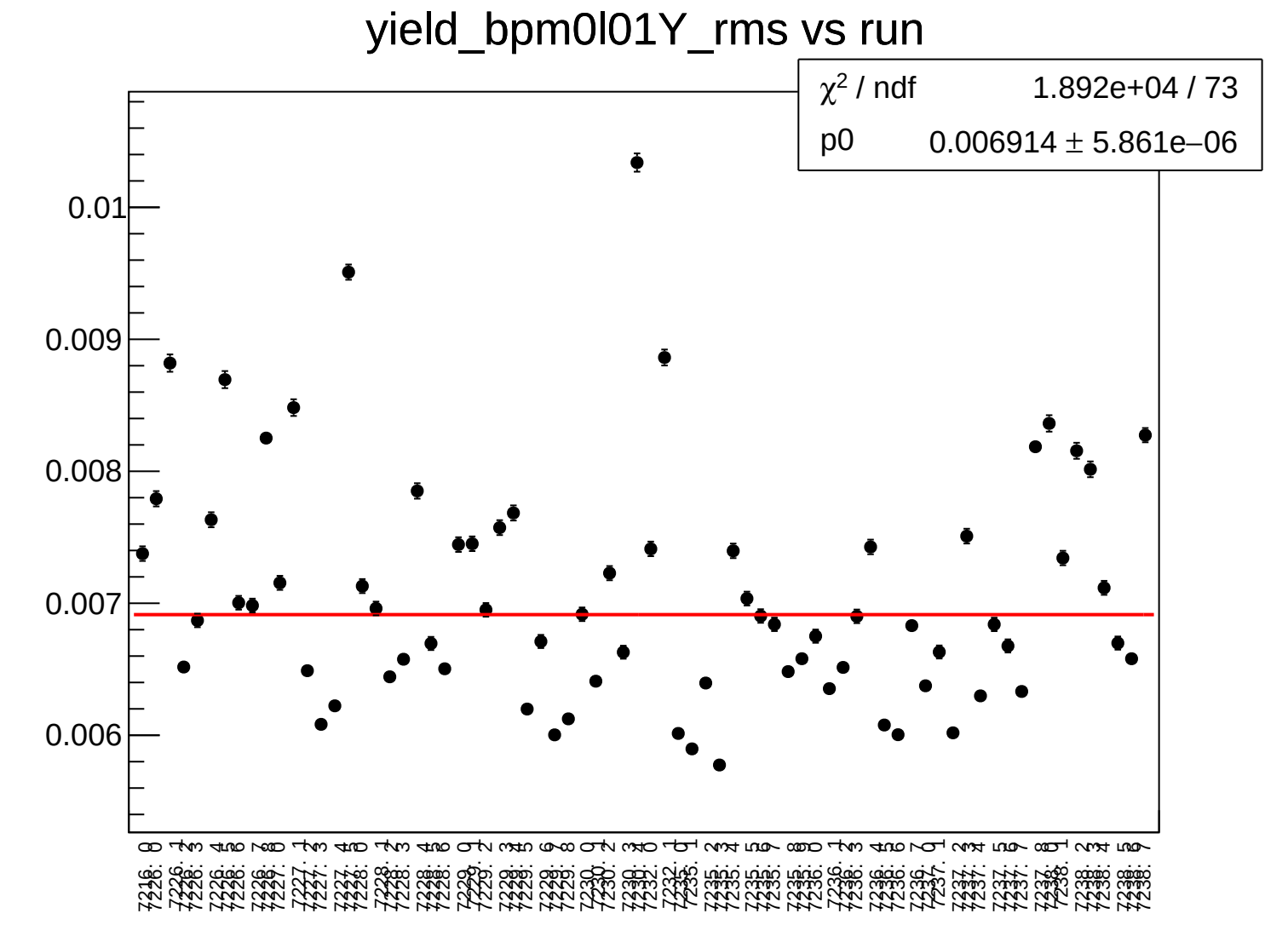

yield_bpm0l01X_mean vs run
χ² / ndf 4.704e+06 / 73
p0 −1.736 ± 7.12e−06
−1.7
−1.71
−1.72
−1.73
−1.74
−1.75
−1.76
pull
Entries 74
Mean −2854
Std Dev 2885
600
400
200
0
−200
−400

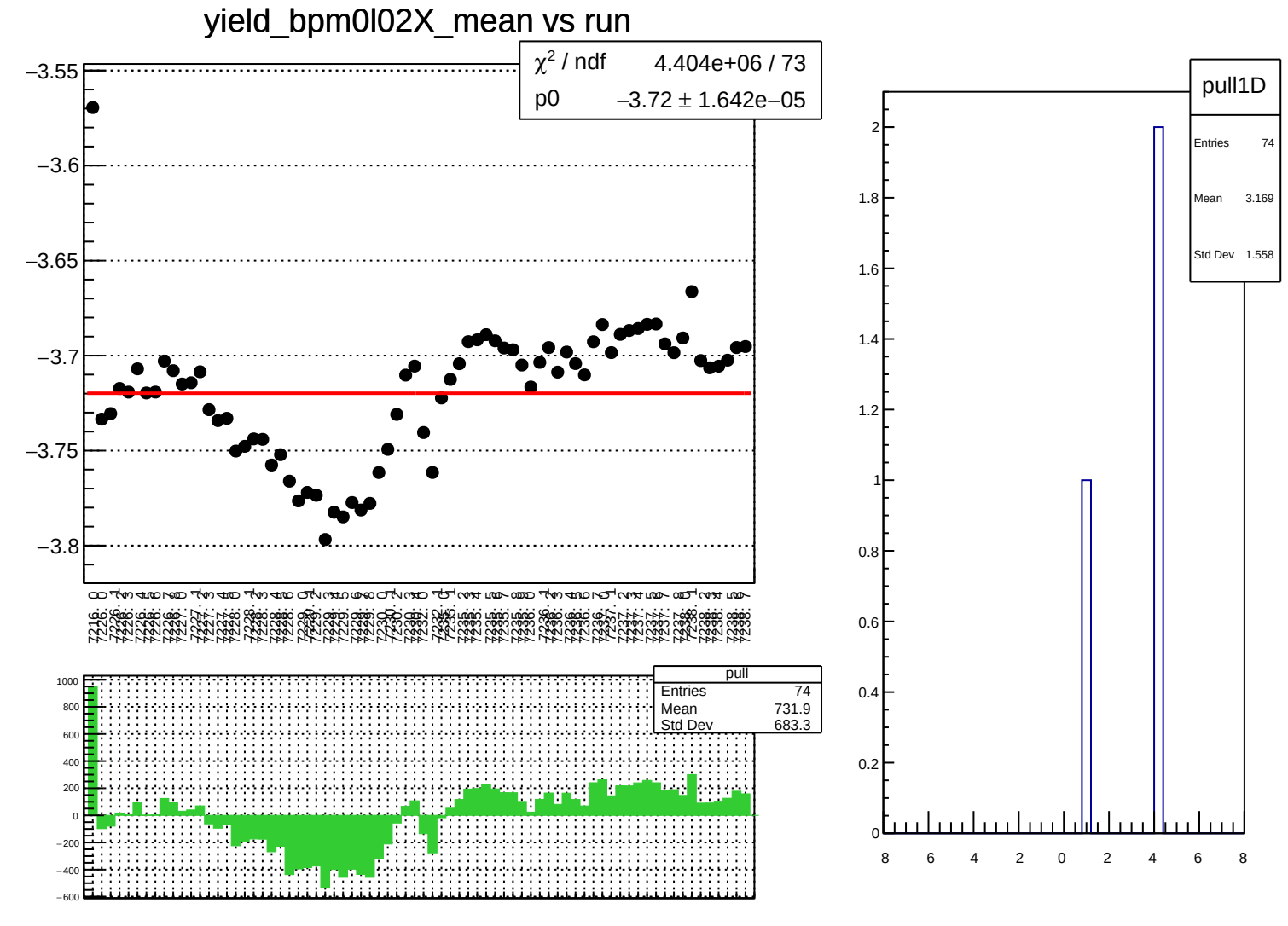

pull1D
Entries 74
Mean −2.167
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

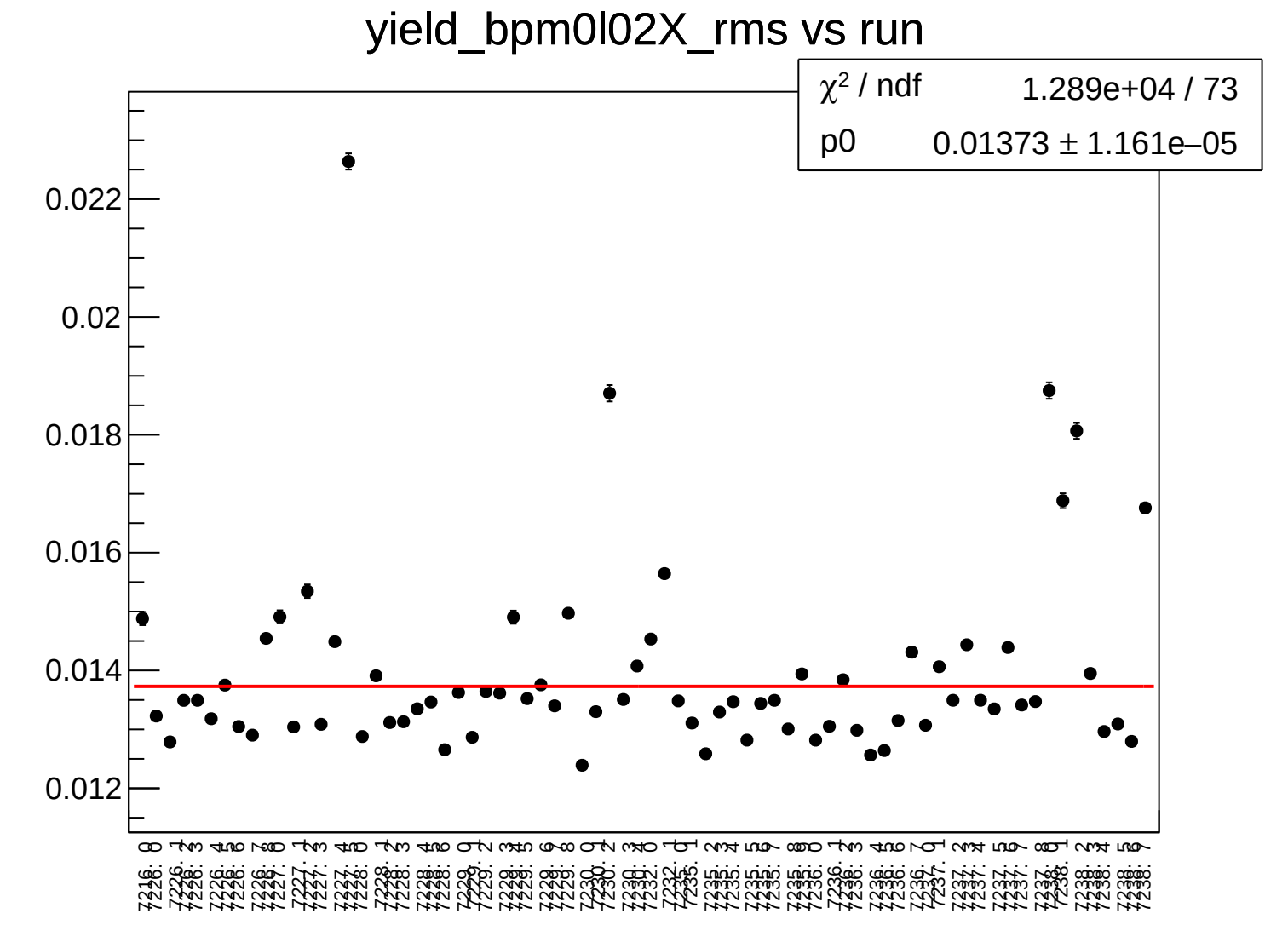

yield_bpm0l01X_rms vs run
χ^2 / ndf 2.927e+04 / 73
p0 0.005918 ± 5.035e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

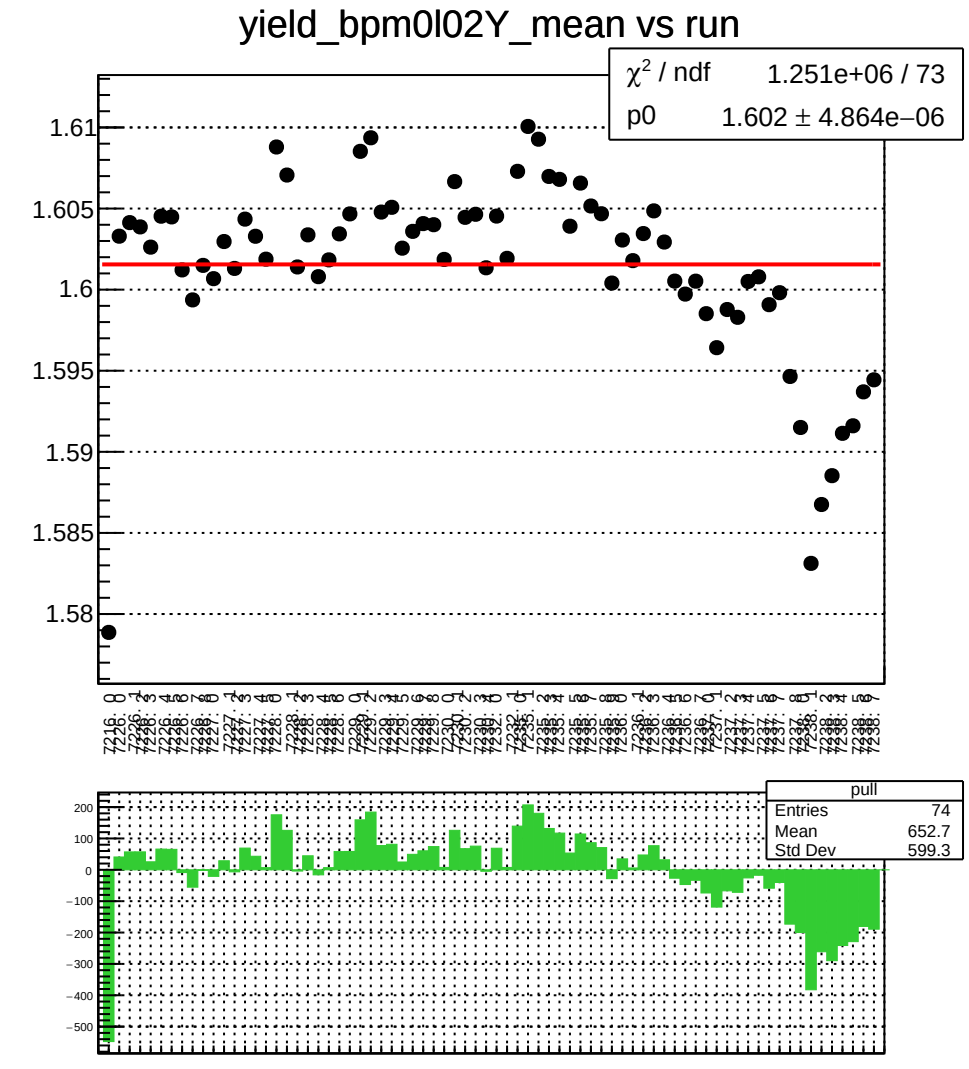

yield_bpm0l01Y_mean vs run
χ² / ndf 2.992e+06 / 73
p0 −5.633 ± 8.288e−06
−5.62
−5.64
−5.66
−5.68
−5.7
−5.72
−5.74
pull
Entries 74
Mean 331.8
Std Dev 265.6
200
0
−200
−400
−600
−800
−1000
−1200

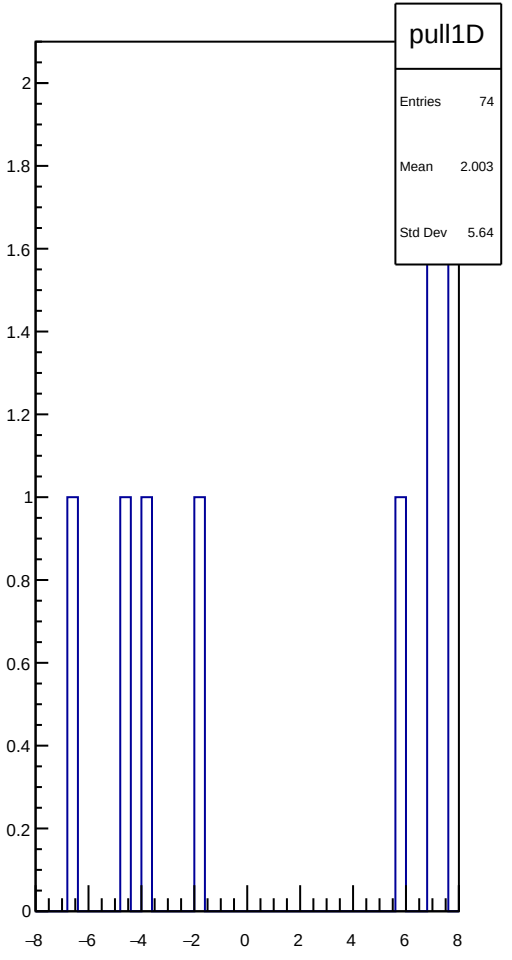

pull1D
Entries 74
Mean −3.765
Std Dev 3.434
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

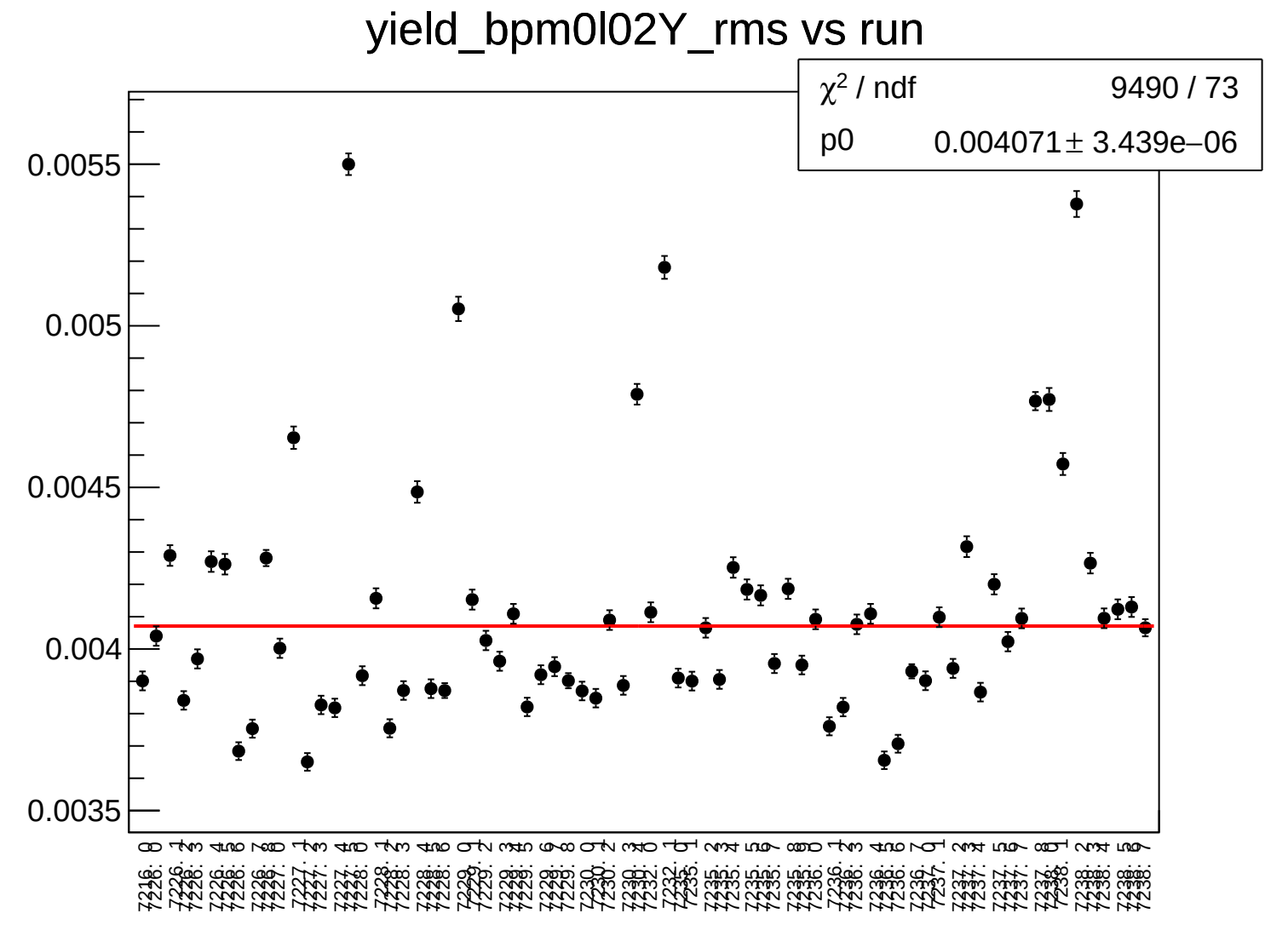

yield_bpm0l01Y_rms vs run
χ² / ndf 1.892e+04 / 73
p0 0.006914 ± 5.861e−06
0.01
0.009
0.008
0.007
0.006

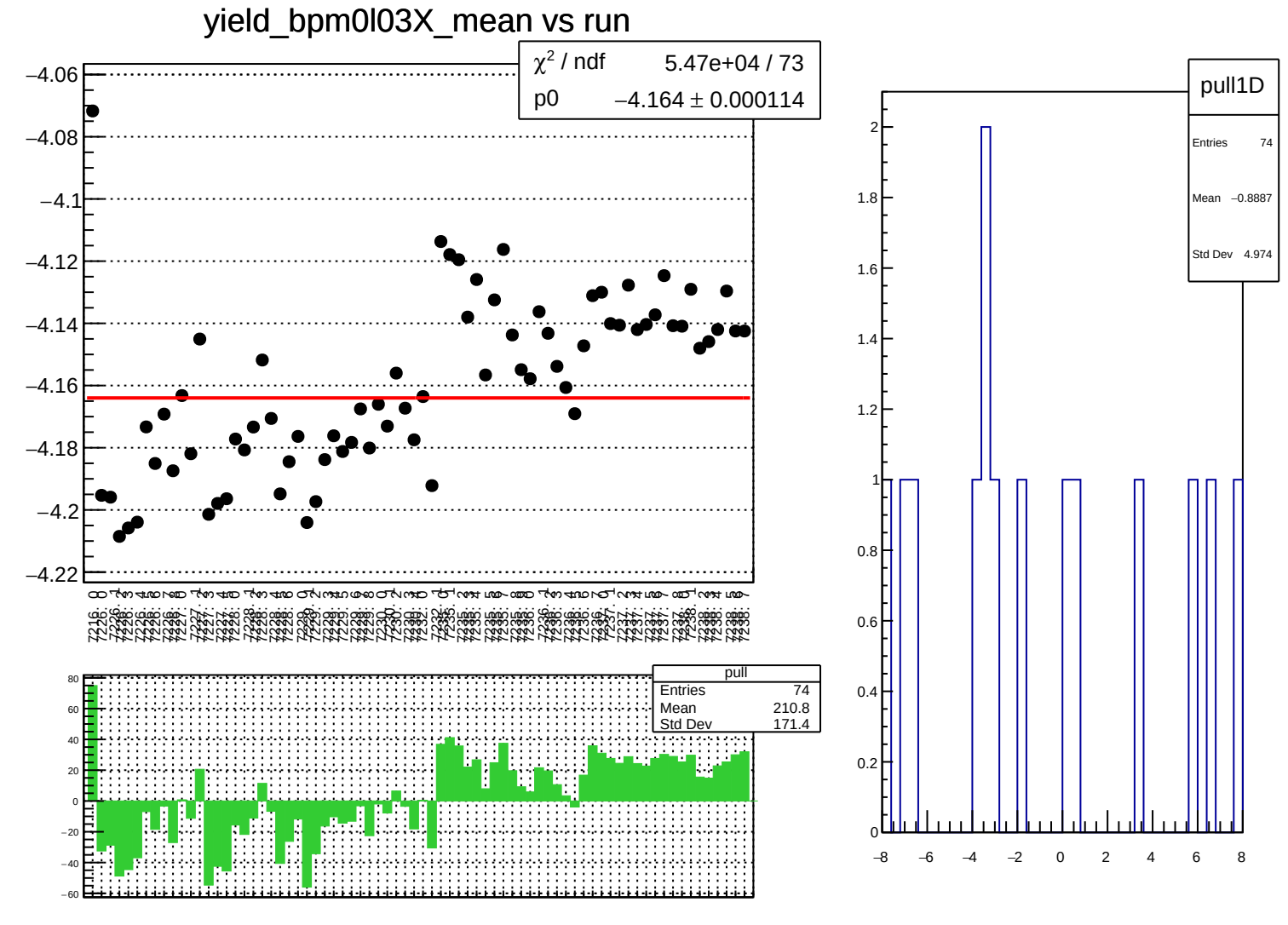

yield_bpm0l02X_mean vs run
χ² / ndf 4.404e+06 / 73
p0 −3.72 ± 1.642e−05
−3.55
−3.6
−3.65
−3.7
−3.75
−3.8
pull
Entries 74
Mean 731.9
Std Dev 683.3
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 74
Mean 3.169
Std Dev 1.558
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

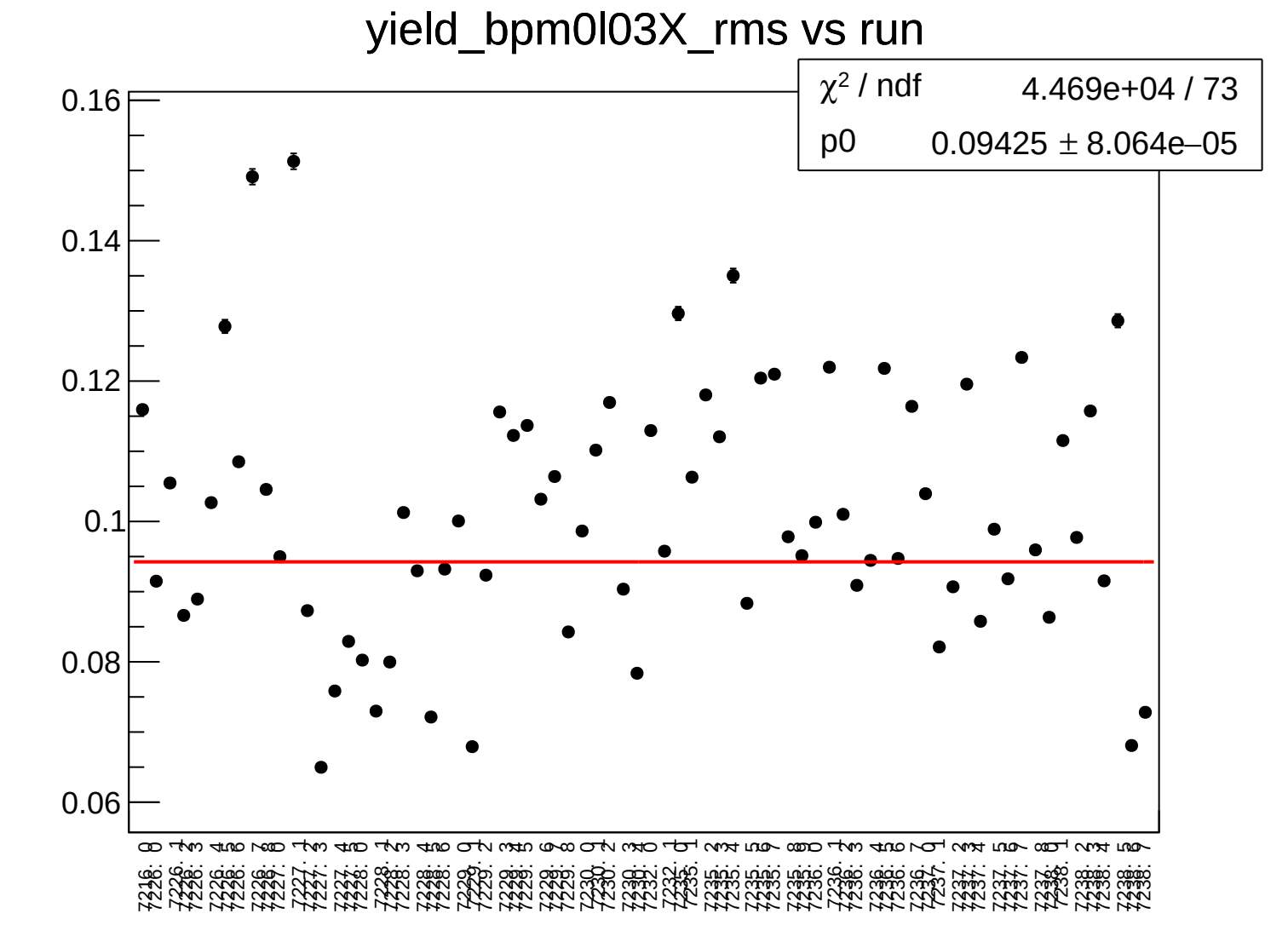

yield_bpm0l02X_rms vs run
χ² / ndf 1.289e+04 / 73
p0 0.01373 ± 1.161e–05
0.022
0.02
0.018
0.016
0.014
0.012

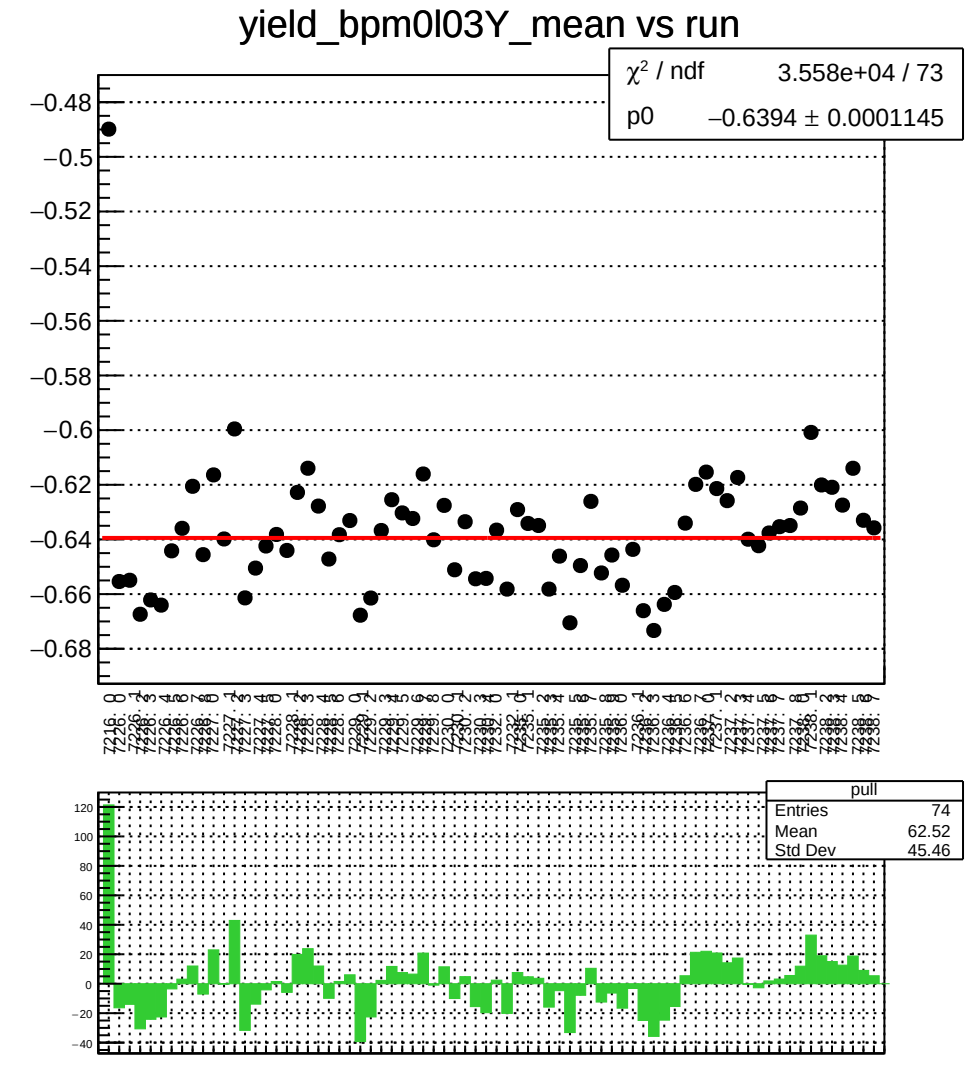

yield_bpm0l02Y_mean vs run
χ² / ndf 1.251e+06 / 73
p0 1.602 ± 4.864e−06
1.61
1.605
1.6
1.595
1.59
1.585
1.58
pull
Entries 74
Mean 652.7
Std Dev 599.3
200
100
0
−100
−200
−300
−400
−500

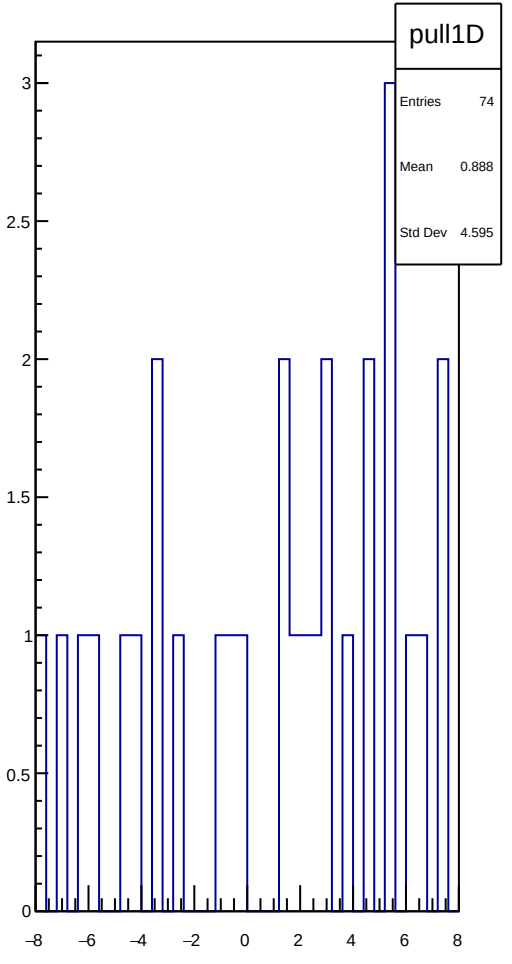

pull1D
Entries 74
Mean 2.003
Std Dev 5.64
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

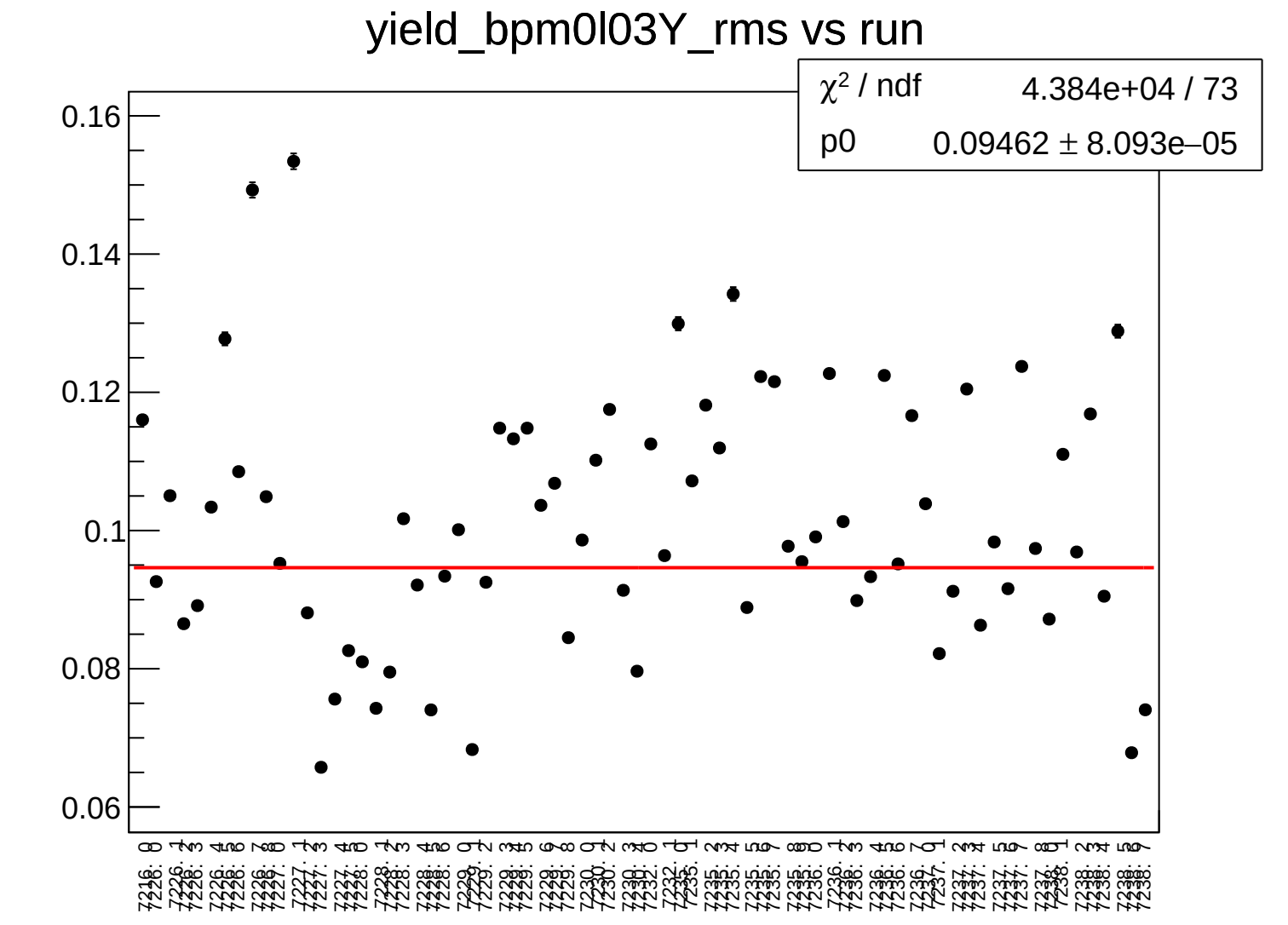

yield_bpm0l02Y_rms vs run
χ² / ndf 9490 / 73
p0 0.004071 ± 3.439e−06
0.0055
0.005
0.0045
0.004
0.0035

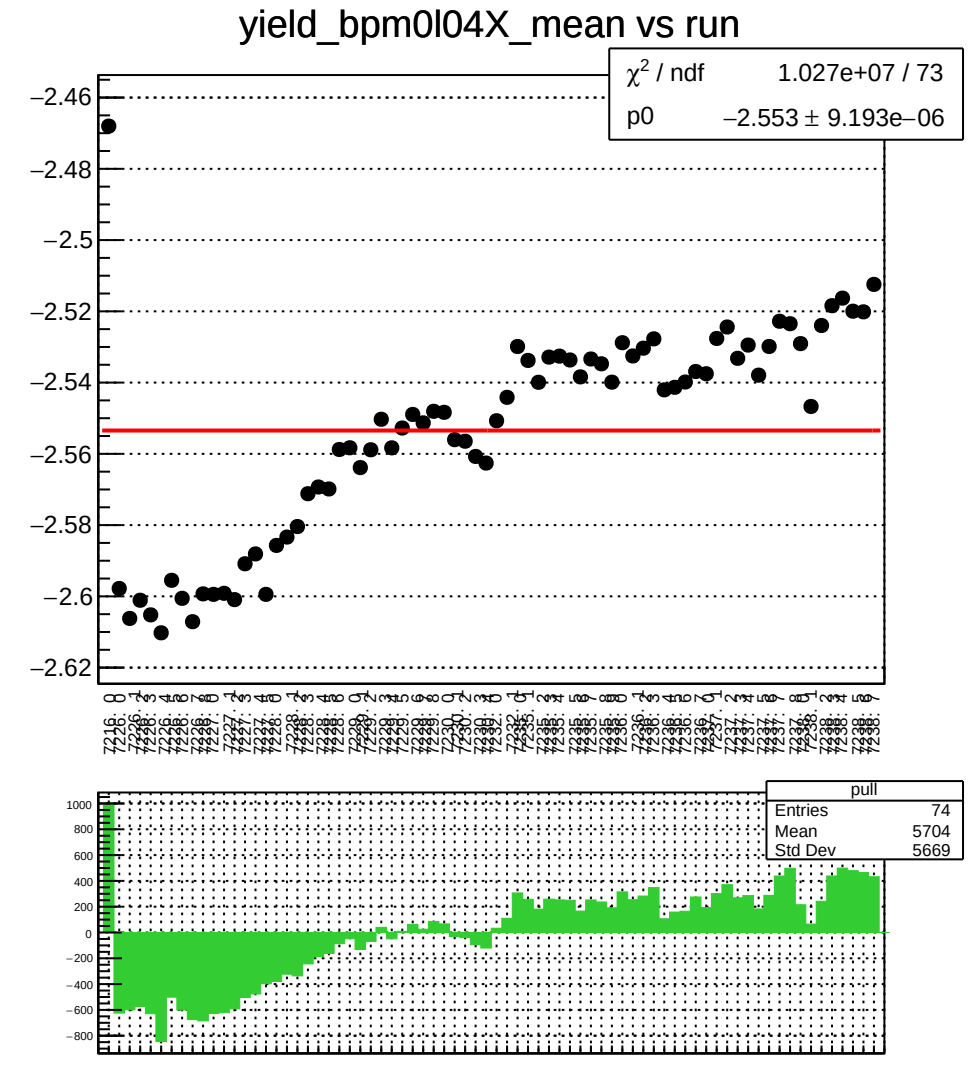

yield_bpm0l03X_mean vs run
χ² / ndf 5.47e+04 / 73
p0 −4.164 ± 0.000114
−4.06
−4.08
−4.1
−4.12
−4.14
−4.16
−4.18
−4.2
−4.22
pull
Entries 74
Mean 210.8
Std Dev 171.4
80
60
40
20
0
−20
−40
−60
pull1D
Entries 74
Mean −0.8887
Std Dev 4.974
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

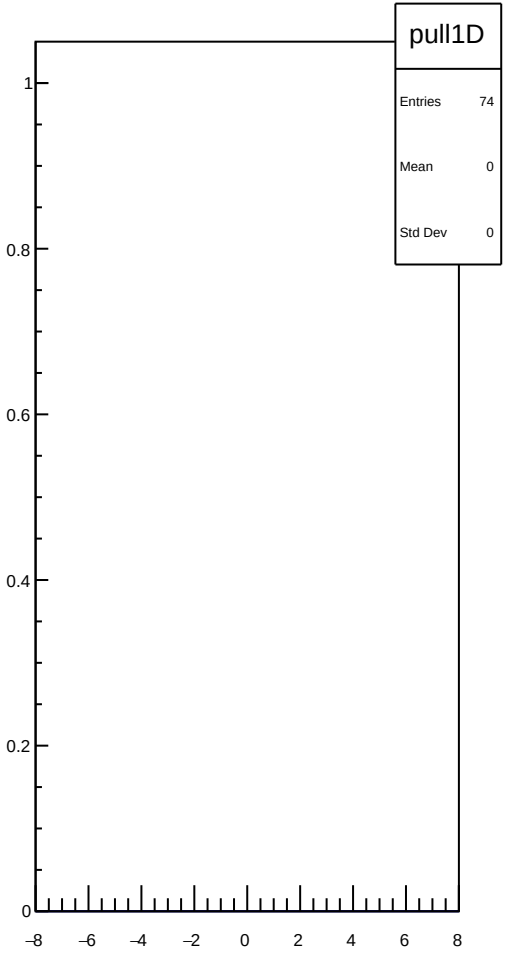

yield_bpm0l03X_rms vs run
χ² / ndf 4.469e+04 / 73
p0 0.09425 ± 8.064e–05
0.16
0.14
0.12
0.1
0.08
0.06

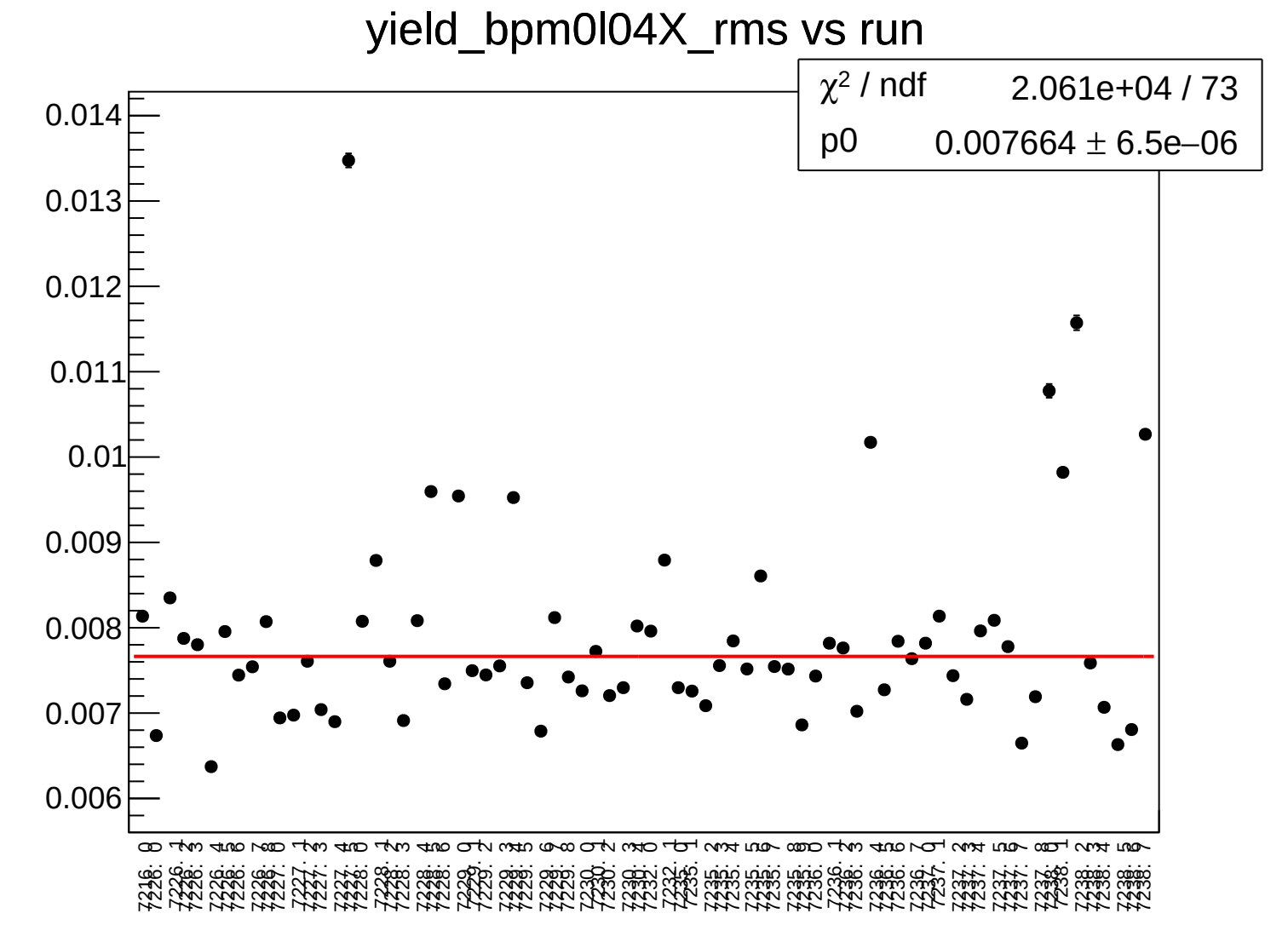

yield_bpm0l03Y_mean vs run
χ² / ndf 3.558e+04 / 73
p0 −0.6394 ± 0.0001145
pull
Entries 74
Mean 62.52
Std Dev 45.46

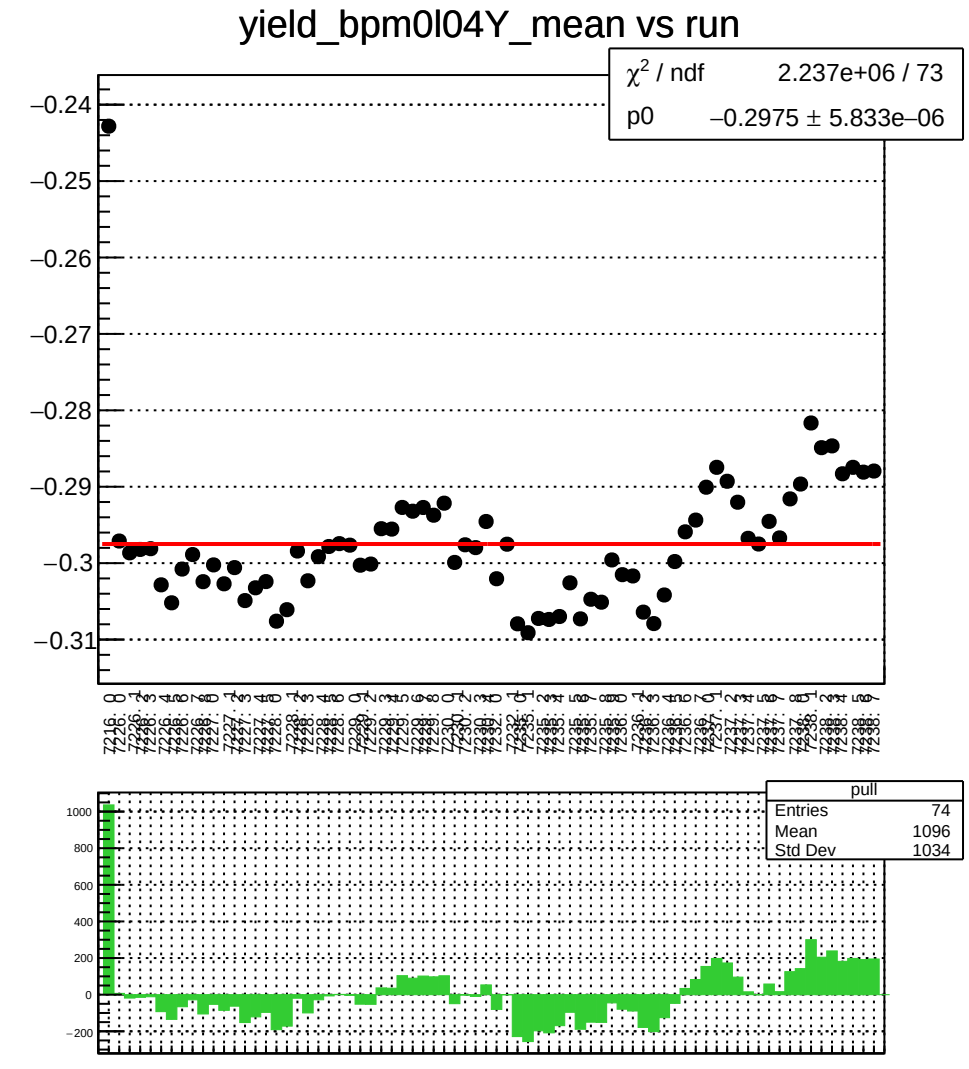

pull1D
Entries 74
Mean 0.888
Std Dev 4.595

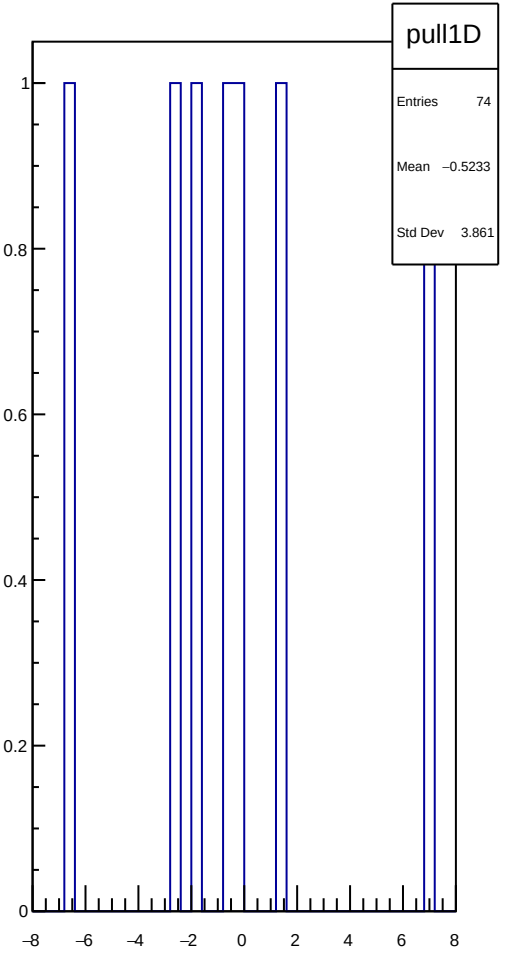

yield_bpm0l03Y_rms vs run
χ² / ndf 4.384e+04 / 73
p0 0.09462 ± 8.093e−05
0.16
0.14
0.12
0.1
0.08
0.06

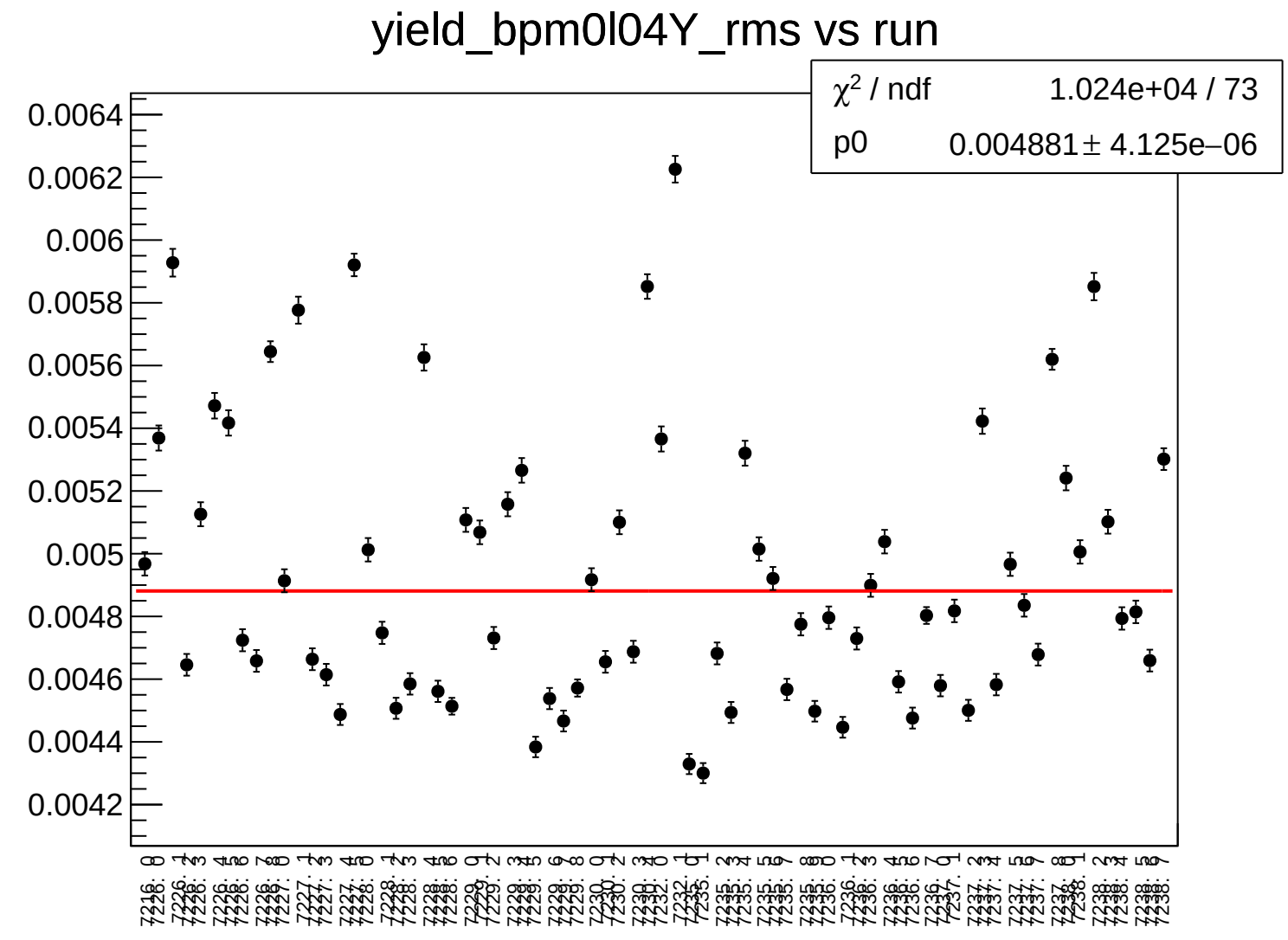

yield_bpm0l04X_mean vs run
χ² / ndf 1.027e+07 / 73
p0 −2.553 ± 9.193e−06
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
pull
Entries 74
Mean 5704
Std Dev 5669
1000
800
600
400
200
0
−200
−400
−600
−800

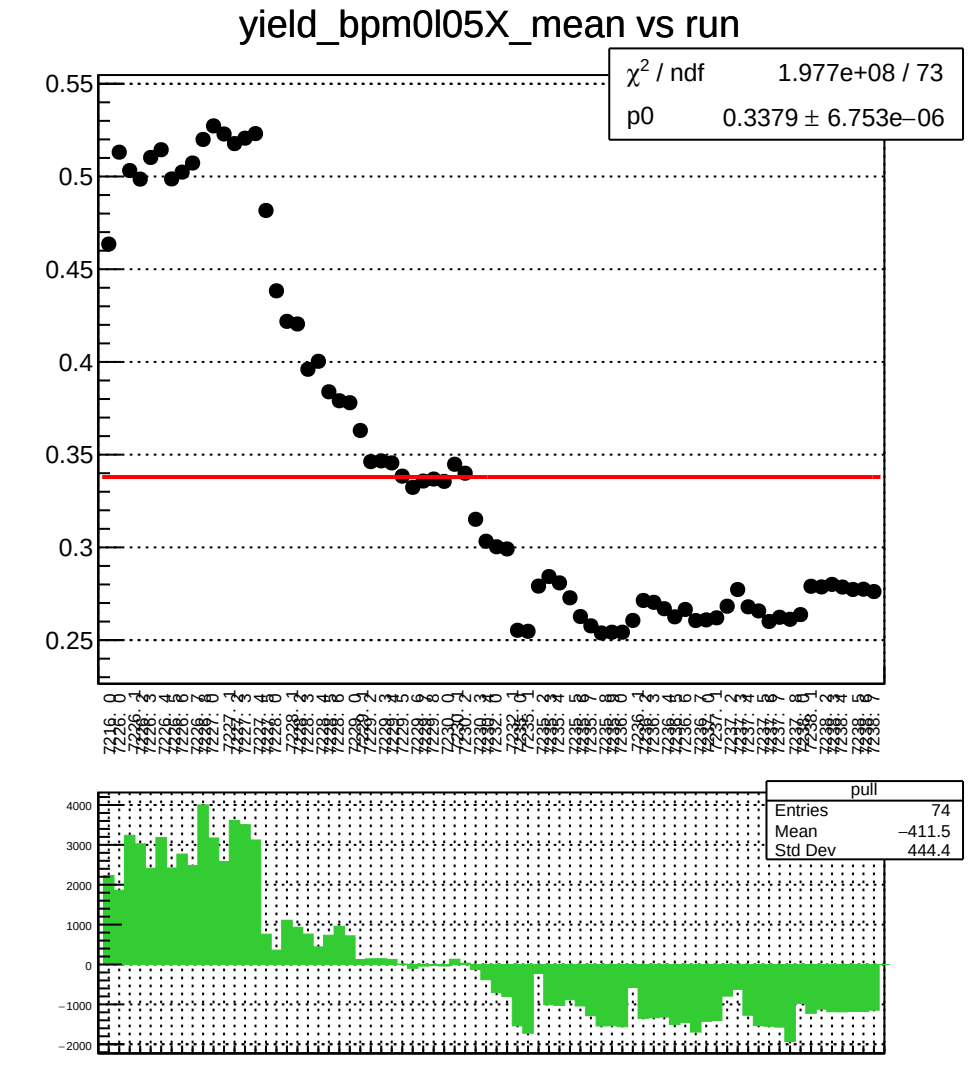

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

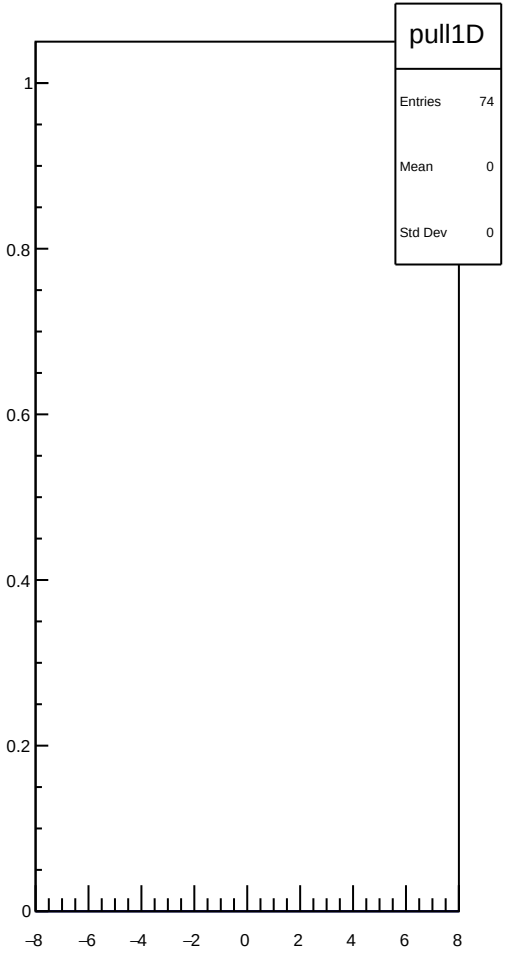

yield_bpm0l04X_rms vs run
χ^2 / ndf 2.061e+04 / 73
p0 0.007664 ± 6.5e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

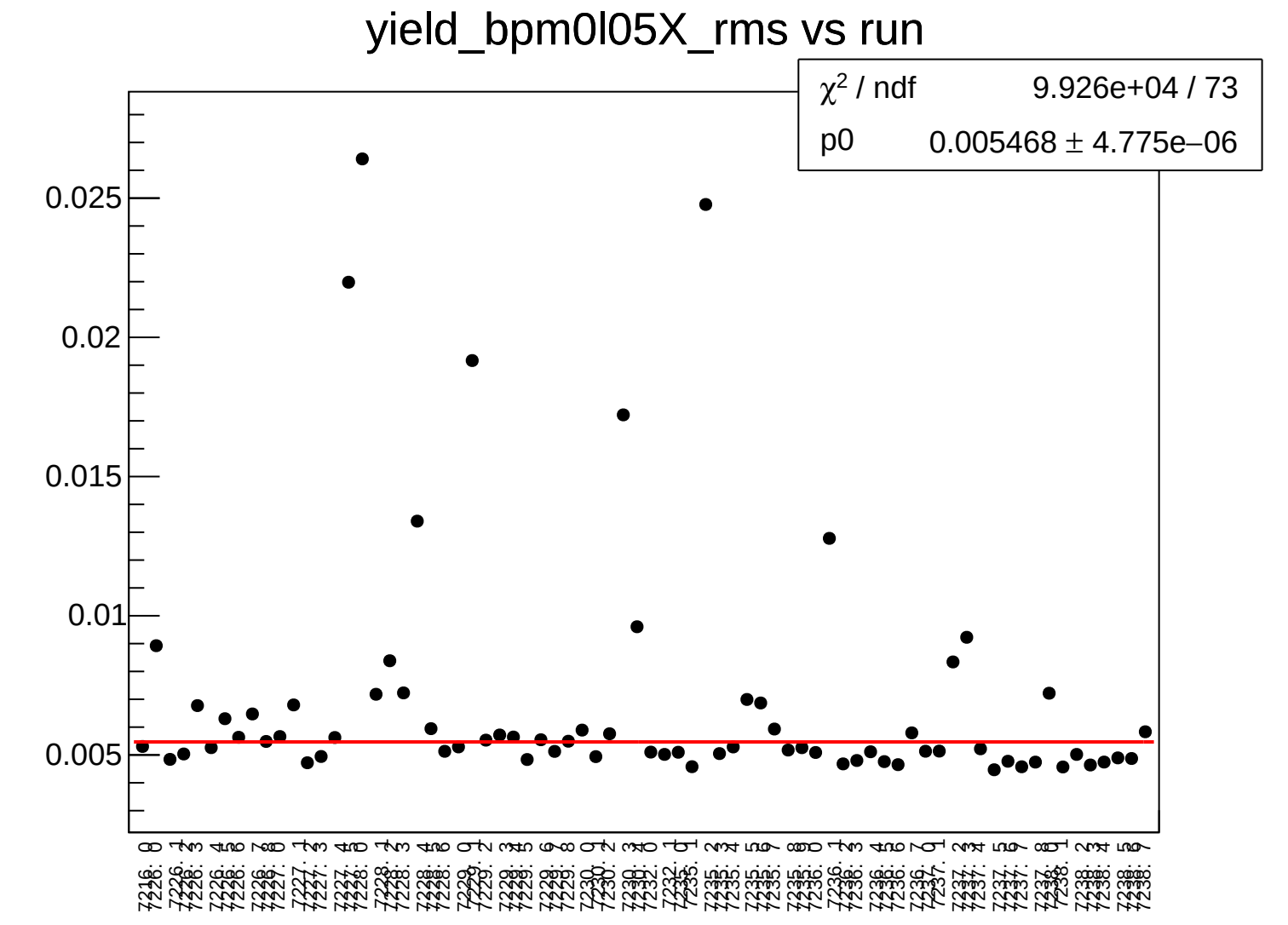

yield_bpm0l04Y_mean vs run
χ² / ndf 2.237e+06 / 73
p0 −0.2975 ± 5.833e−06
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
pull
Entries 74
Mean 1096
Std Dev 1034
1000
800
600
400
200
0
−200

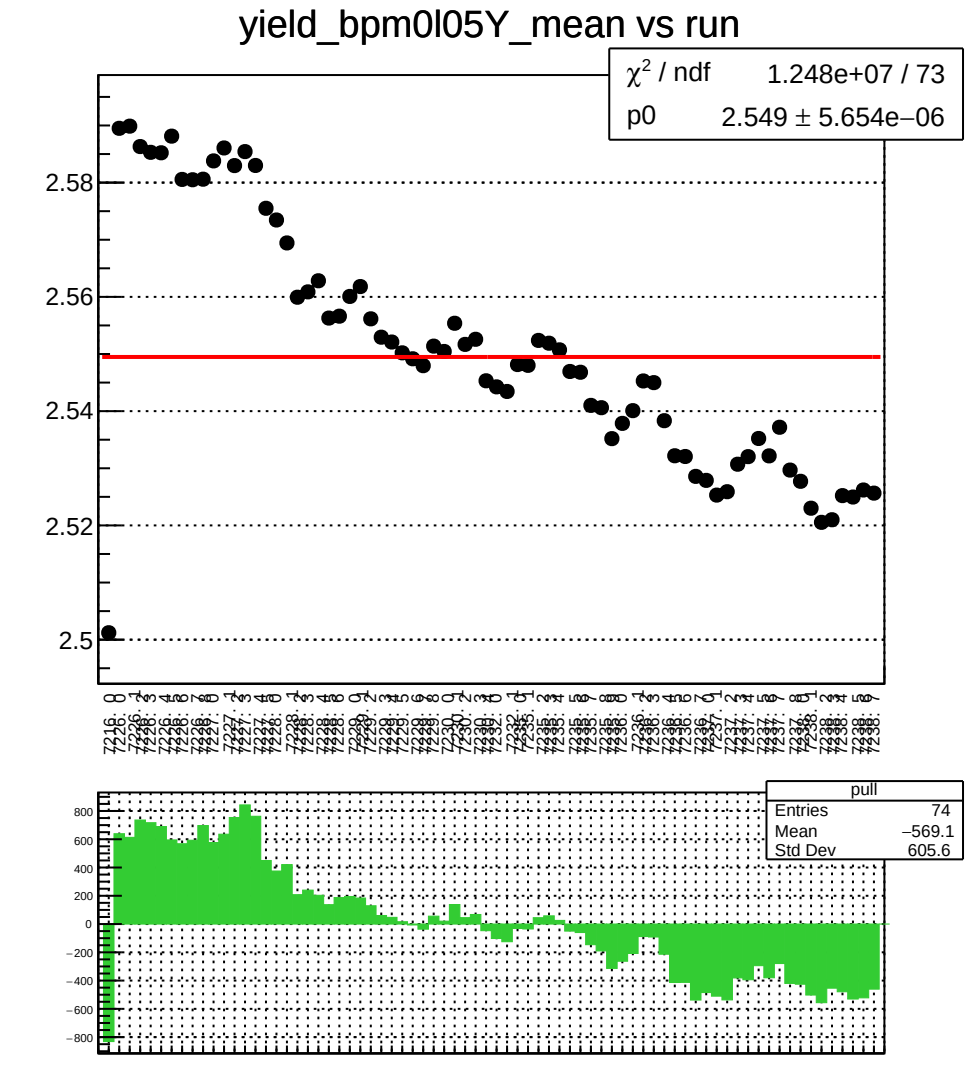

pull1D
Entries 74
Mean −0.5233
Std Dev 3.861
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

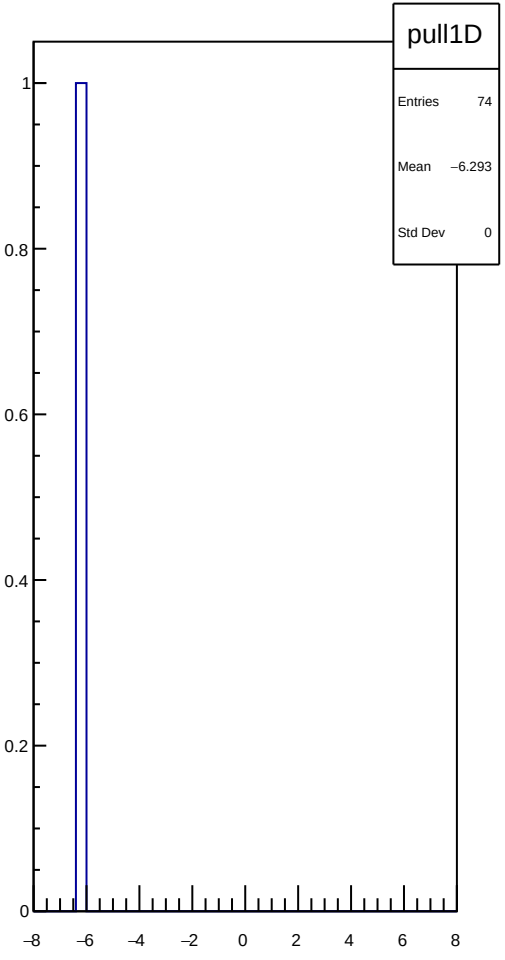

yield_bpm0l04Y_rms vs run
χ² / ndf 1.024e+04 / 73
p0 0.004881 ± 4.125e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

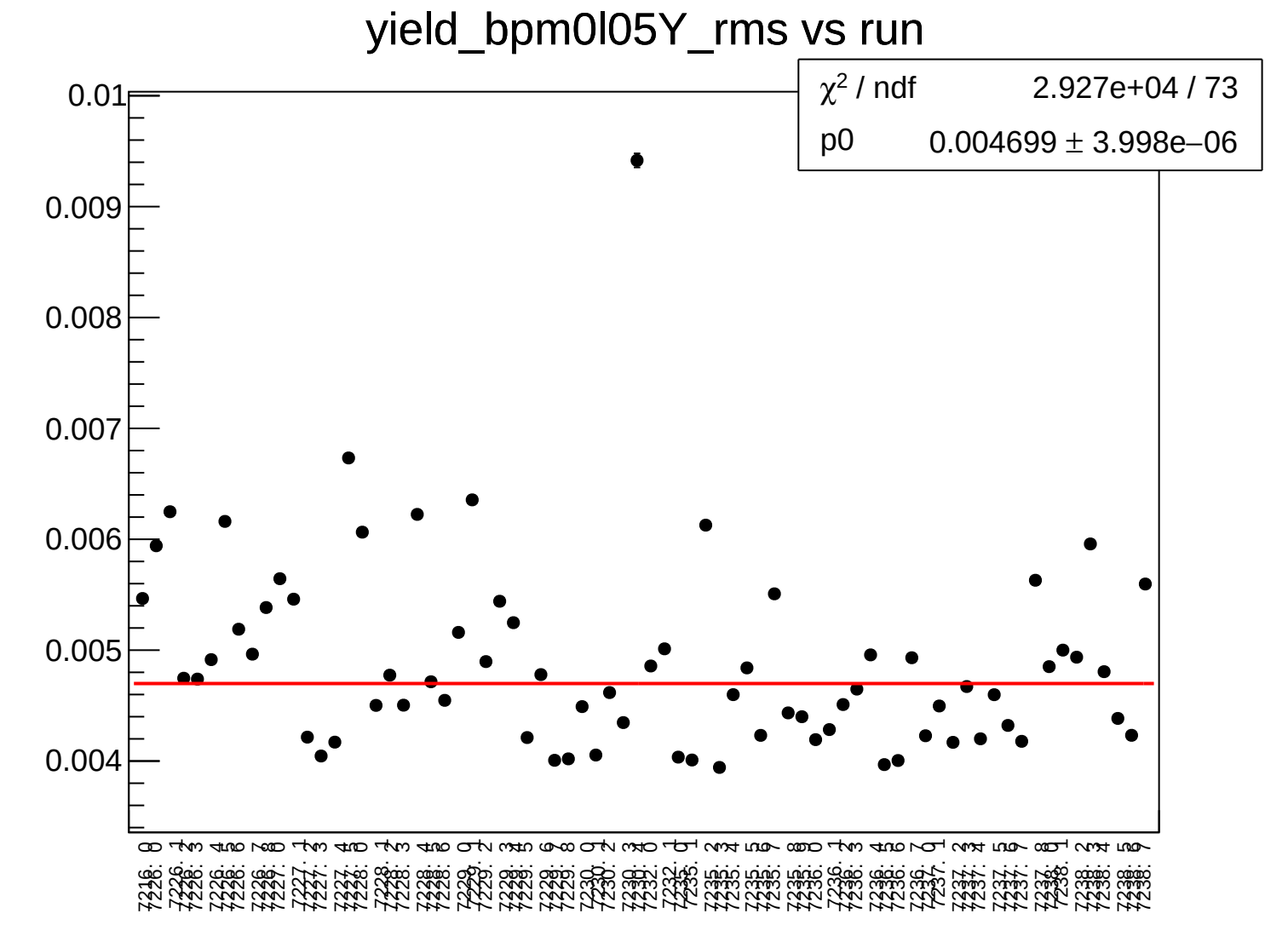

yield_bpm0l05X_mean vs run
χ² / ndf 1.977e+08 / 73
p0 0.3379 ± 6.753e−06
0.55
0.5
0.45
0.4
0.35
0.3
0.25
pull
Entries 74
Mean −411.5
Std Dev 444.4
4000
3000
2000
1000
0
−1000
−2000

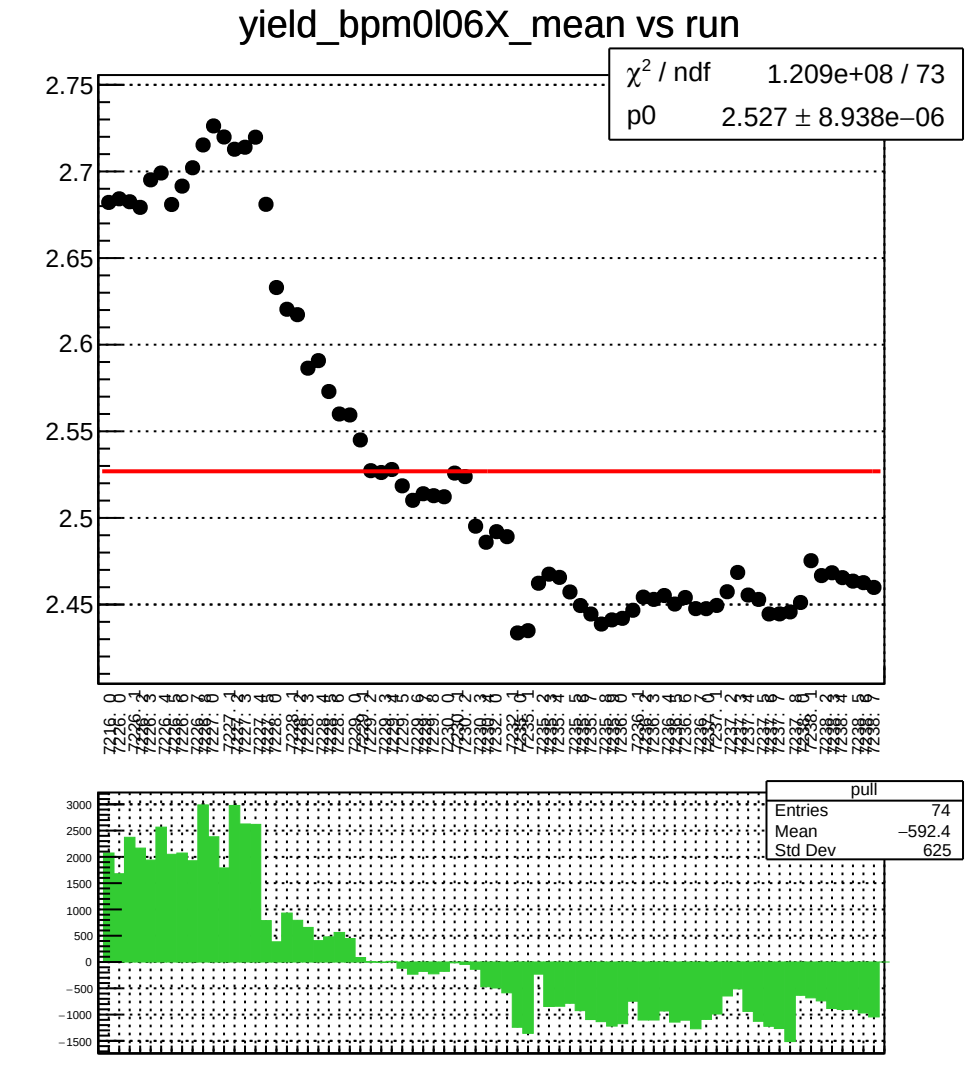

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

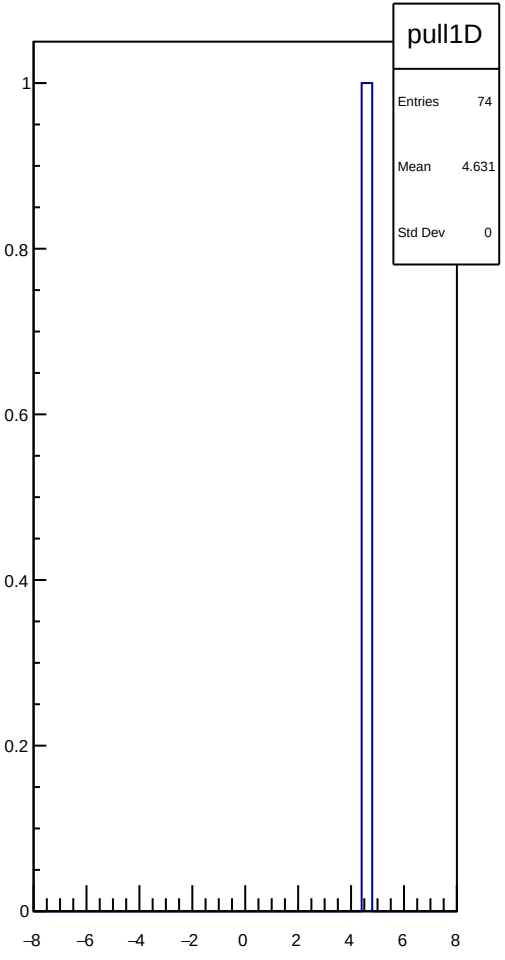

yield_bpm0l05X_rms vs run
χ^2 / ndf 9.926e+04 / 73
p0 0.005468 ± 4.775e−06
0.025
0.02
0.015
0.01
0.005

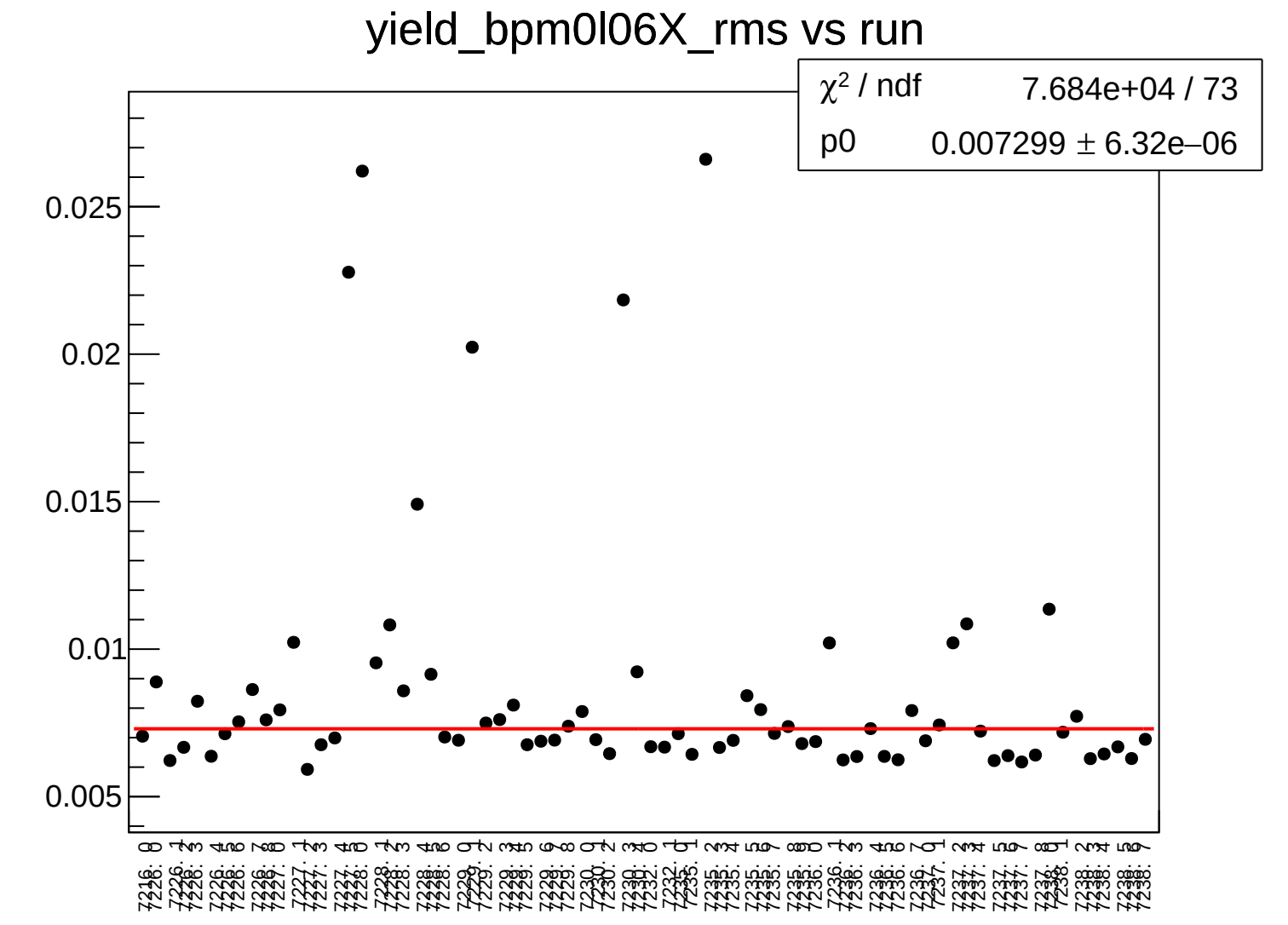

yield_bpm0l05Y_mean vs run
χ² / ndf 1.248e+07 / 73
p0 2.549 ± 5.654e−06
2.58
2.56
2.54
2.52
2.5
pull
Entries 74
Mean −569.1
Std Dev 605.6
800
600
400
200
0
−200
−400
−600
−800

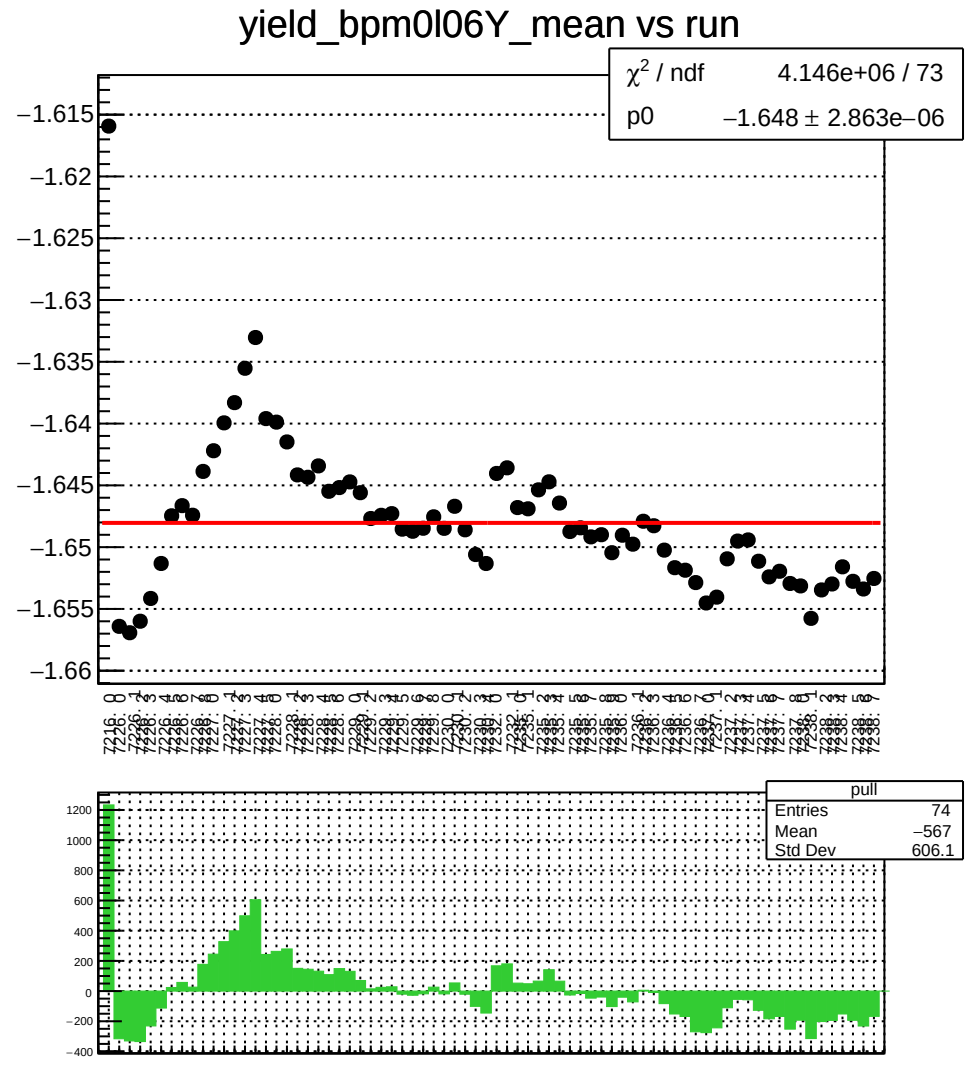

pull1D
Entries 74
Mean −6.293
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

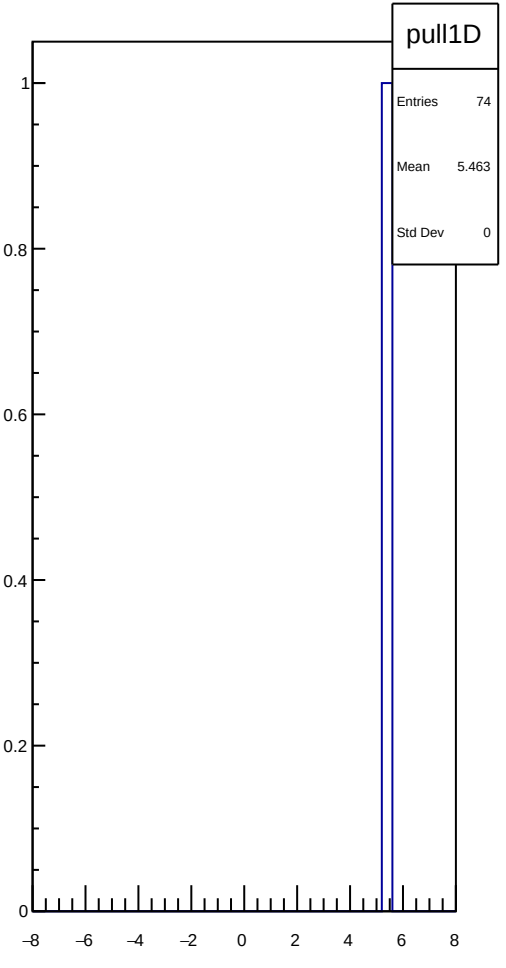

yield_bpm0l05Y_rms vs run
χ² / ndf 2.927e+04 / 73
p0 0.004699 ± 3.998e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

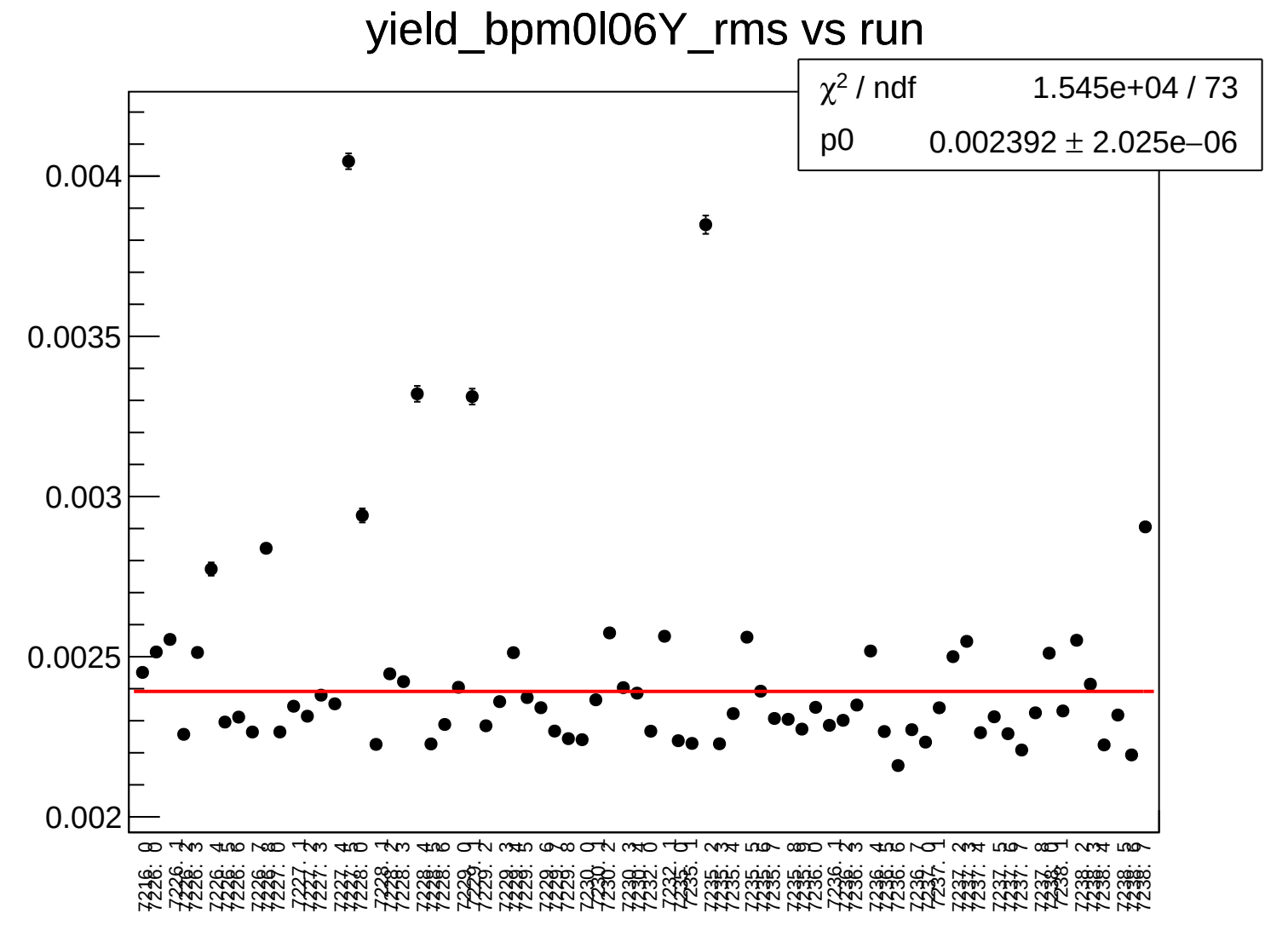

yield_bpm0l06X_mean vs run
χ² / ndf 1.209e+08 / 73
p0 2.527 ± 8.938e−06
pull
Entries 74
Mean −592.4
Std Dev 625

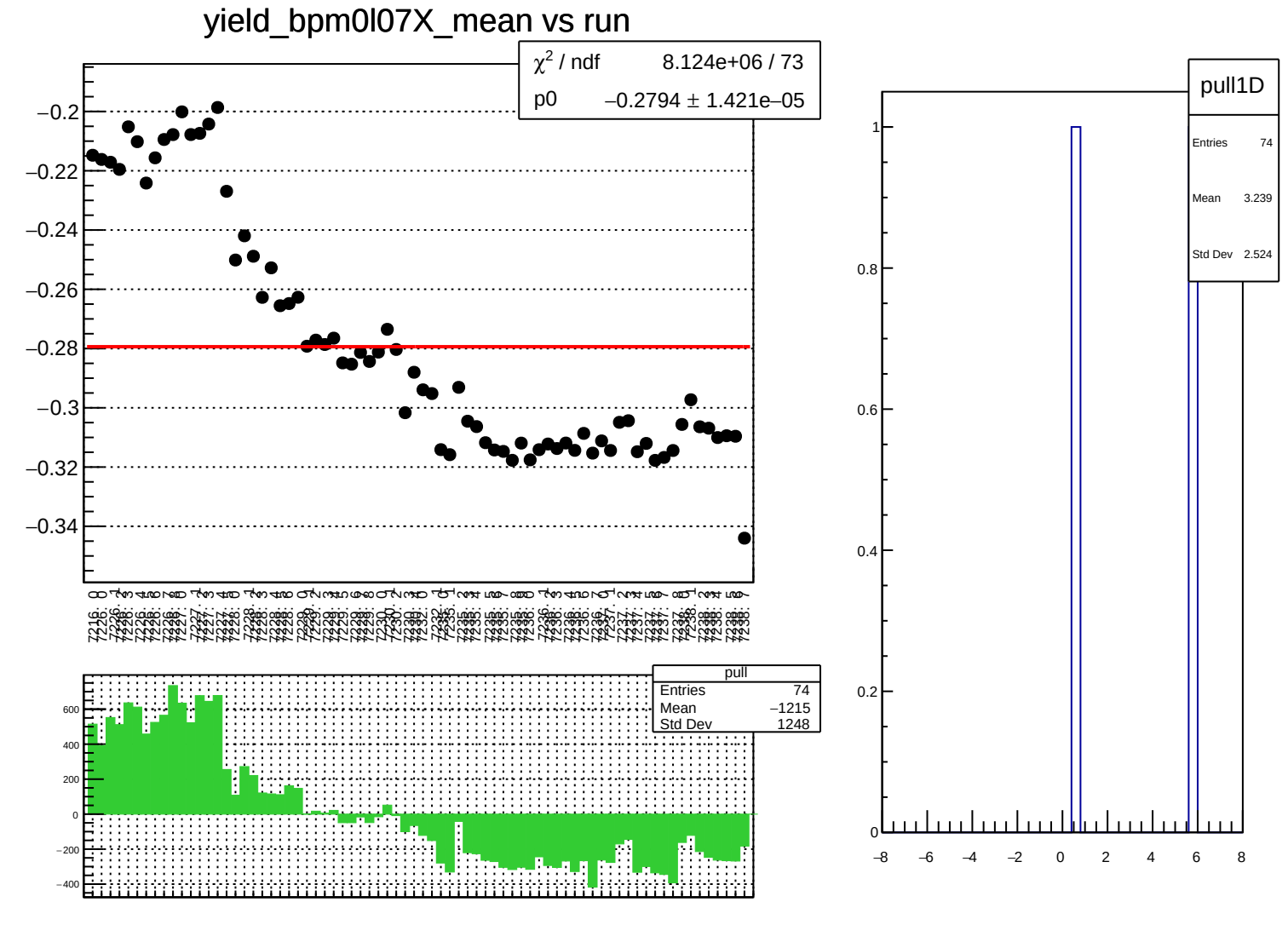

pull1D
Entries 74
Mean 4.631
Std Dev 0

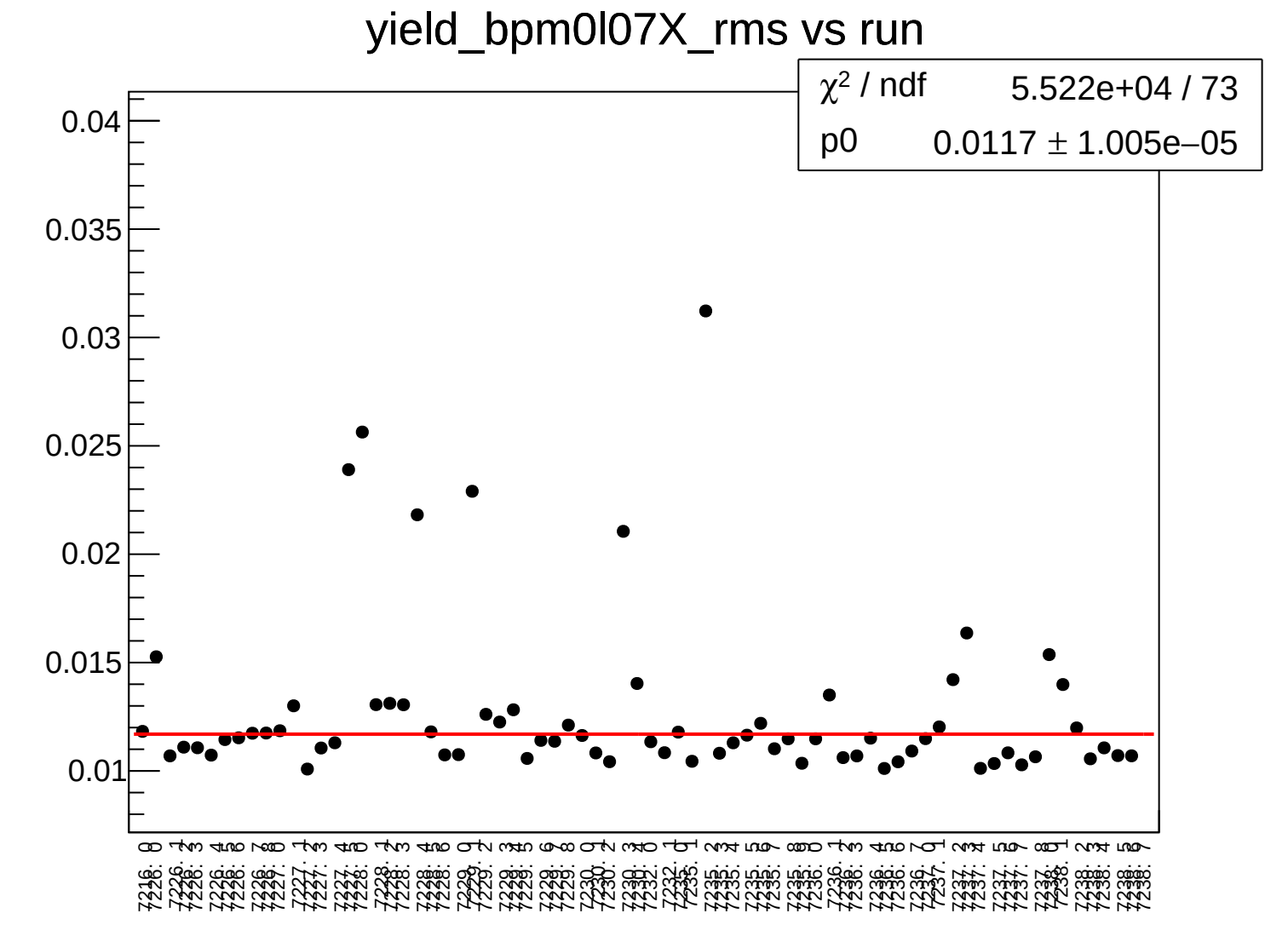

yield_bpm0l06X_rms vs run
χ² / ndf 7.684e+04 / 73
p0 0.007299 ± 6.32e–06
0.025
0.02
0.015
0.01
0.005

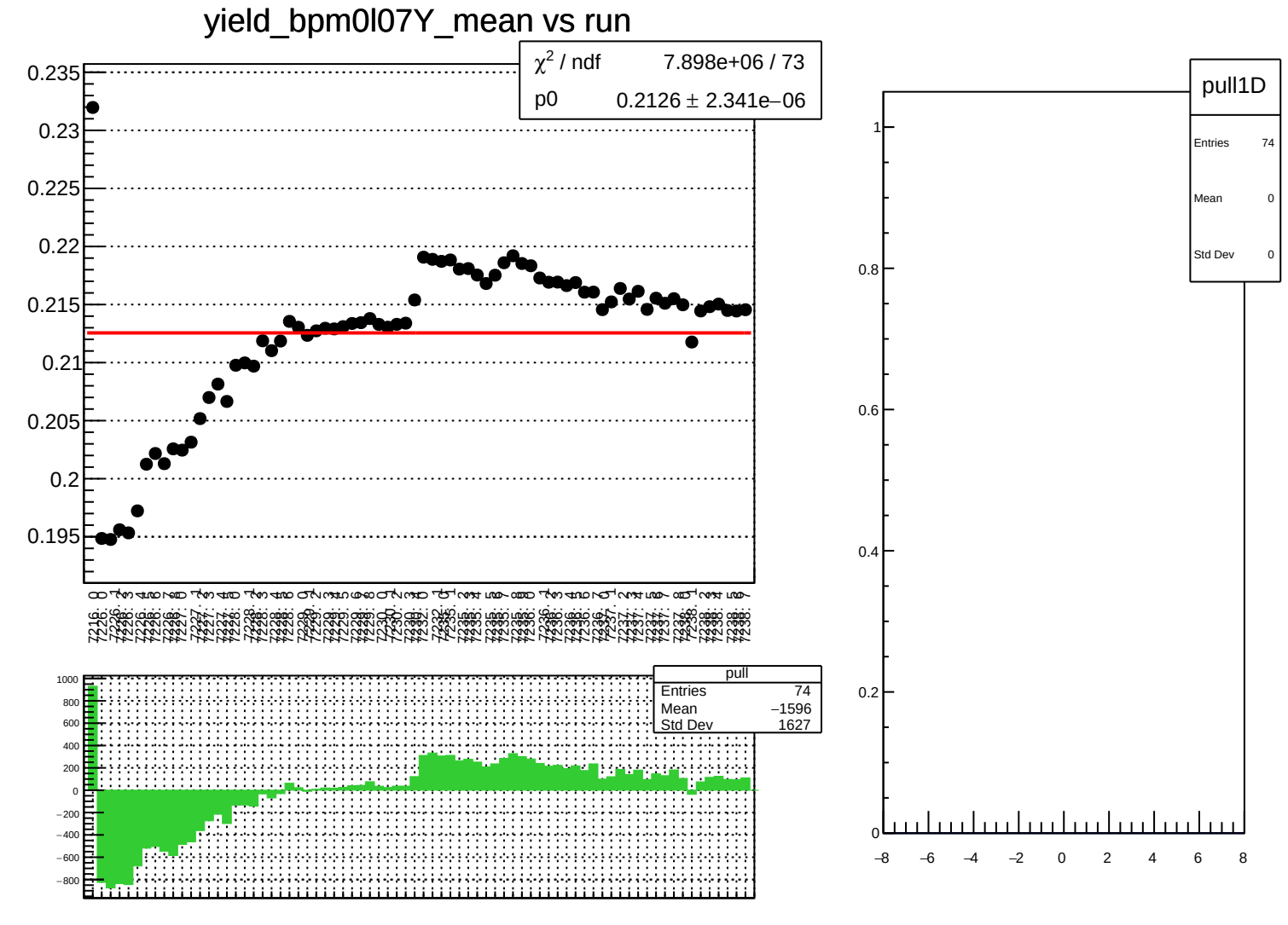

yield_bpm0l06Y_mean vs run
χ² / ndf 4.146e+06 / 73
p0 −1.648 ± 2.863e−06
−1.615
−1.62
−1.625
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
−1.66
pull
Entries 74
Mean −567
Std Dev 606.1
1200
1000
800
600
400
200
0
−200
−400

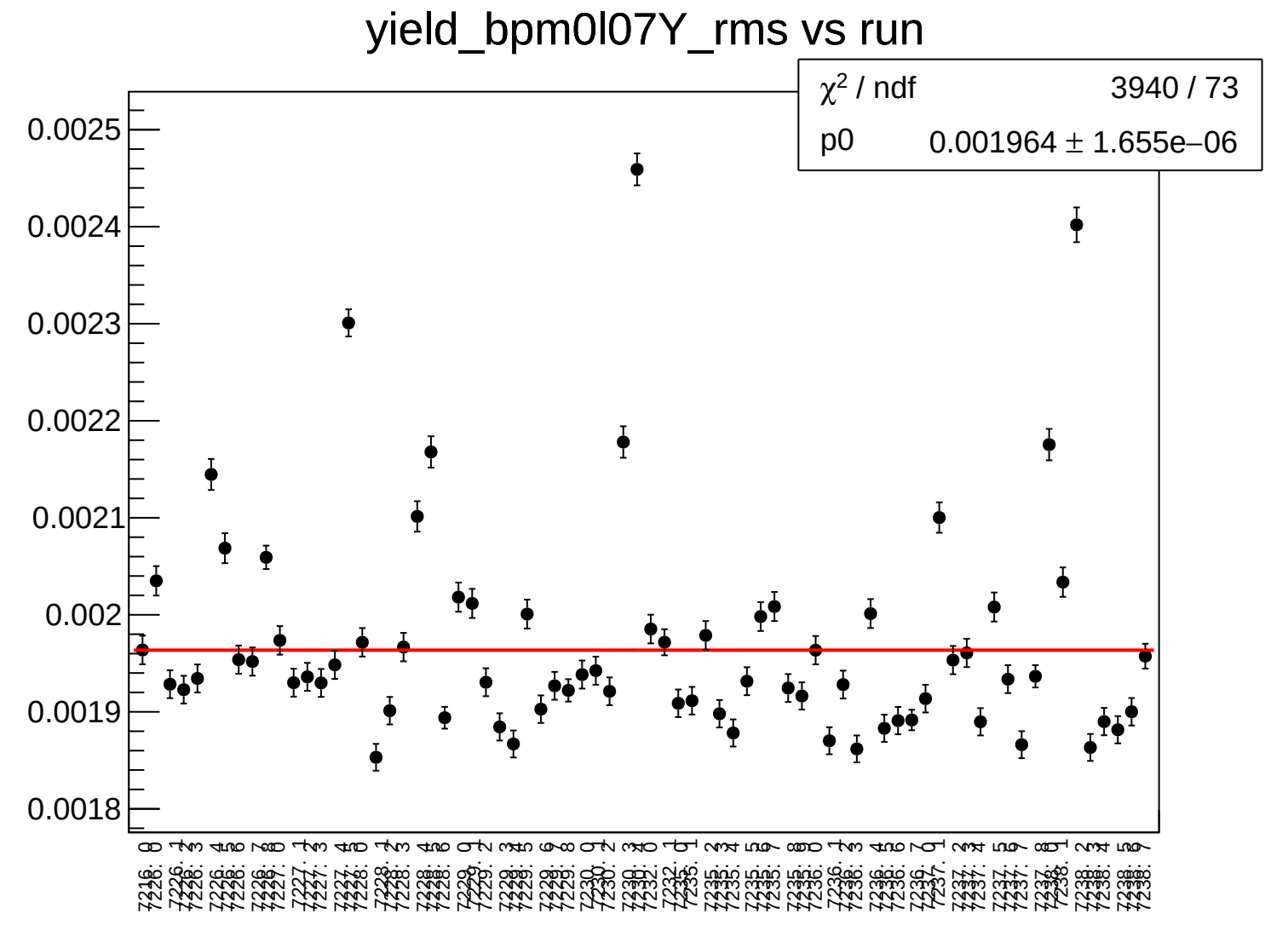

pull1D
Entries 74
Mean 5.463
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

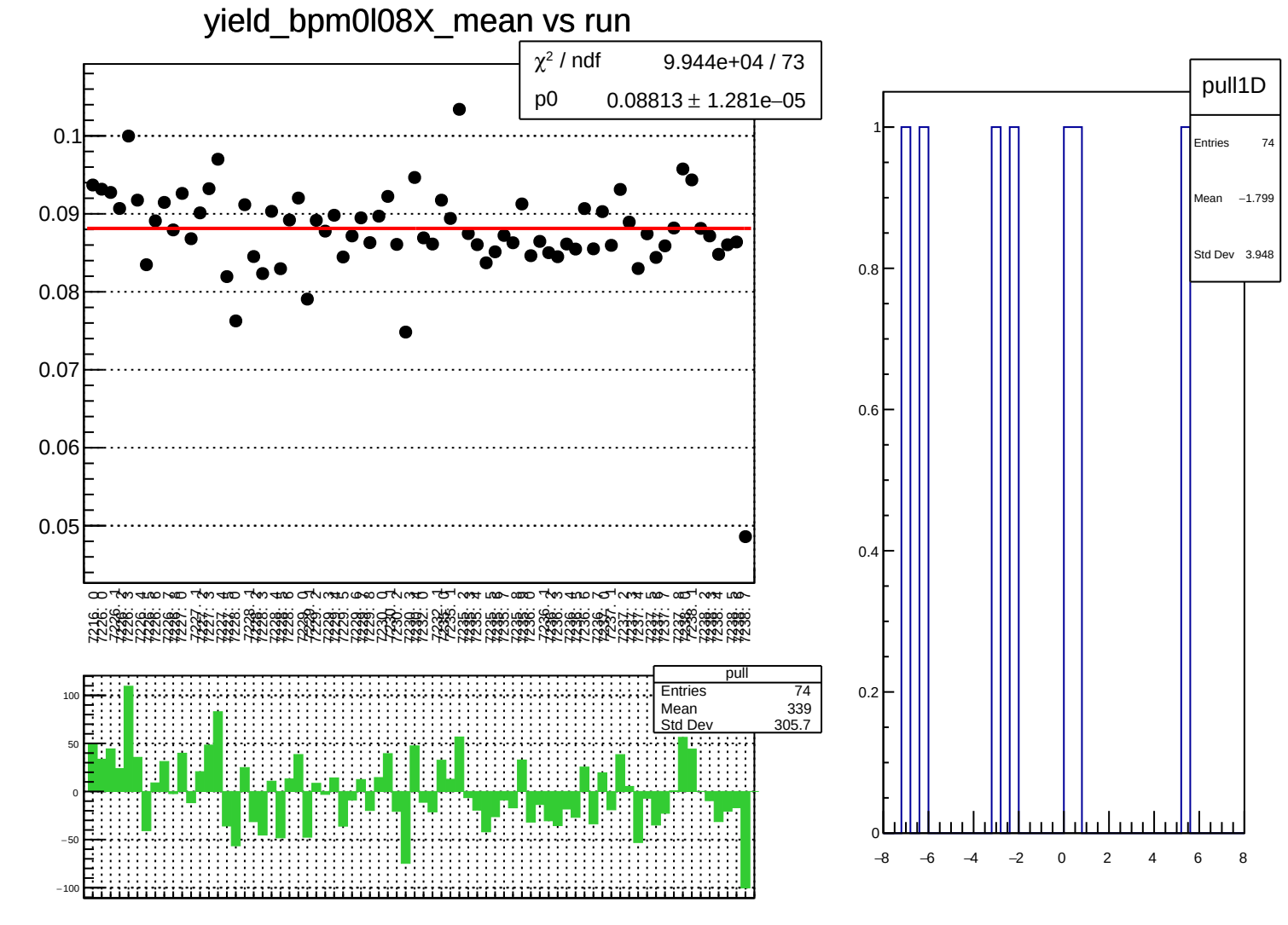

yield_bpm0l06Y_rms vs run
χ² / ndf 1.545e+04 / 73
p0 0.002392 ± 2.025e−06
0.004
0.0035
0.003
0.0025
0.002

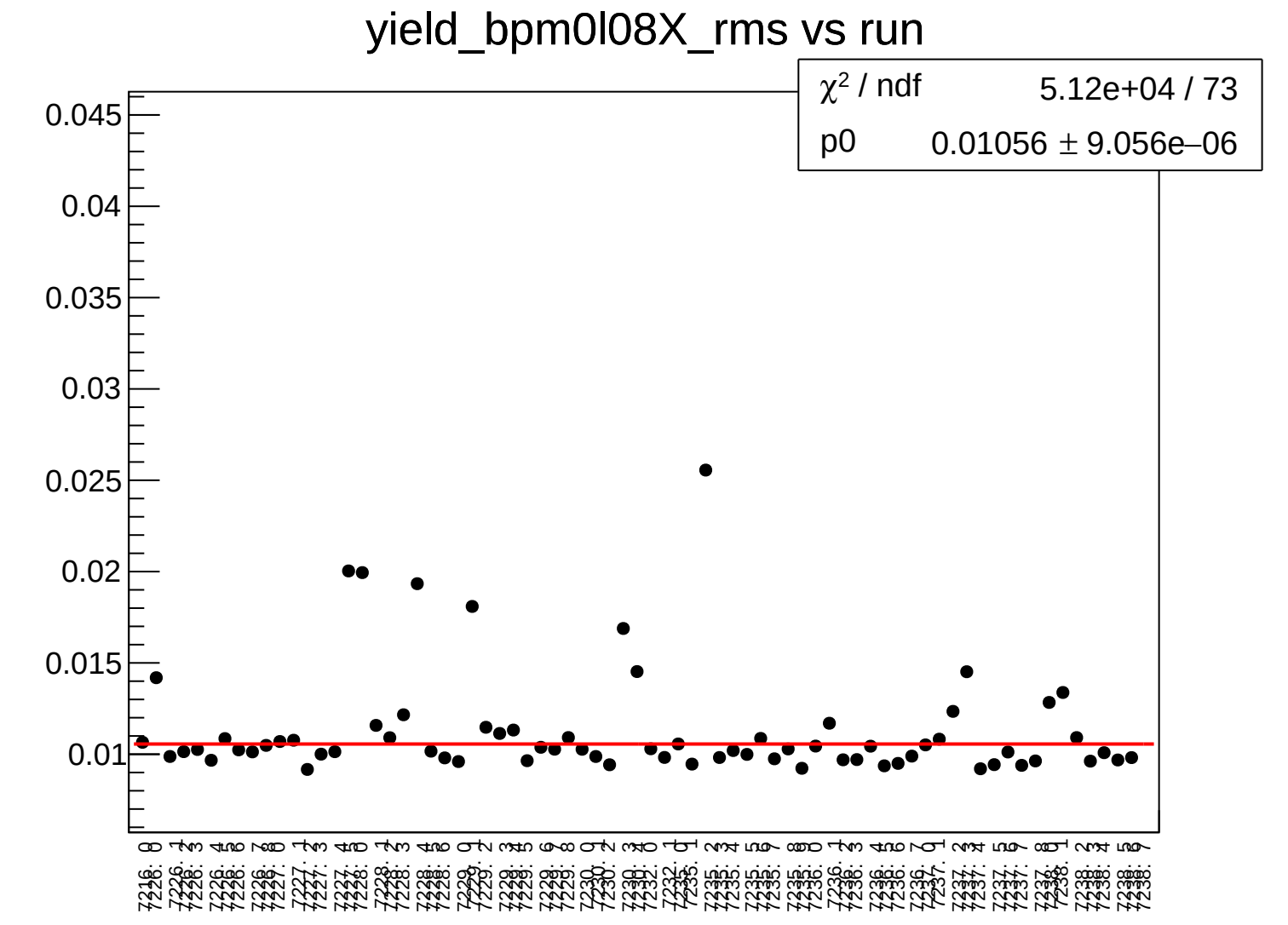

yield_bpm0l07X_mean vs run
χ² / ndf 8.124e+06 / 73
p0 −0.2794 ± 1.421e−05
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 74
Mean −1215
Std Dev 1248
600
400
200
0
−200
−400
pull1D
Entries 74
Mean 3.239
Std Dev 2.524
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

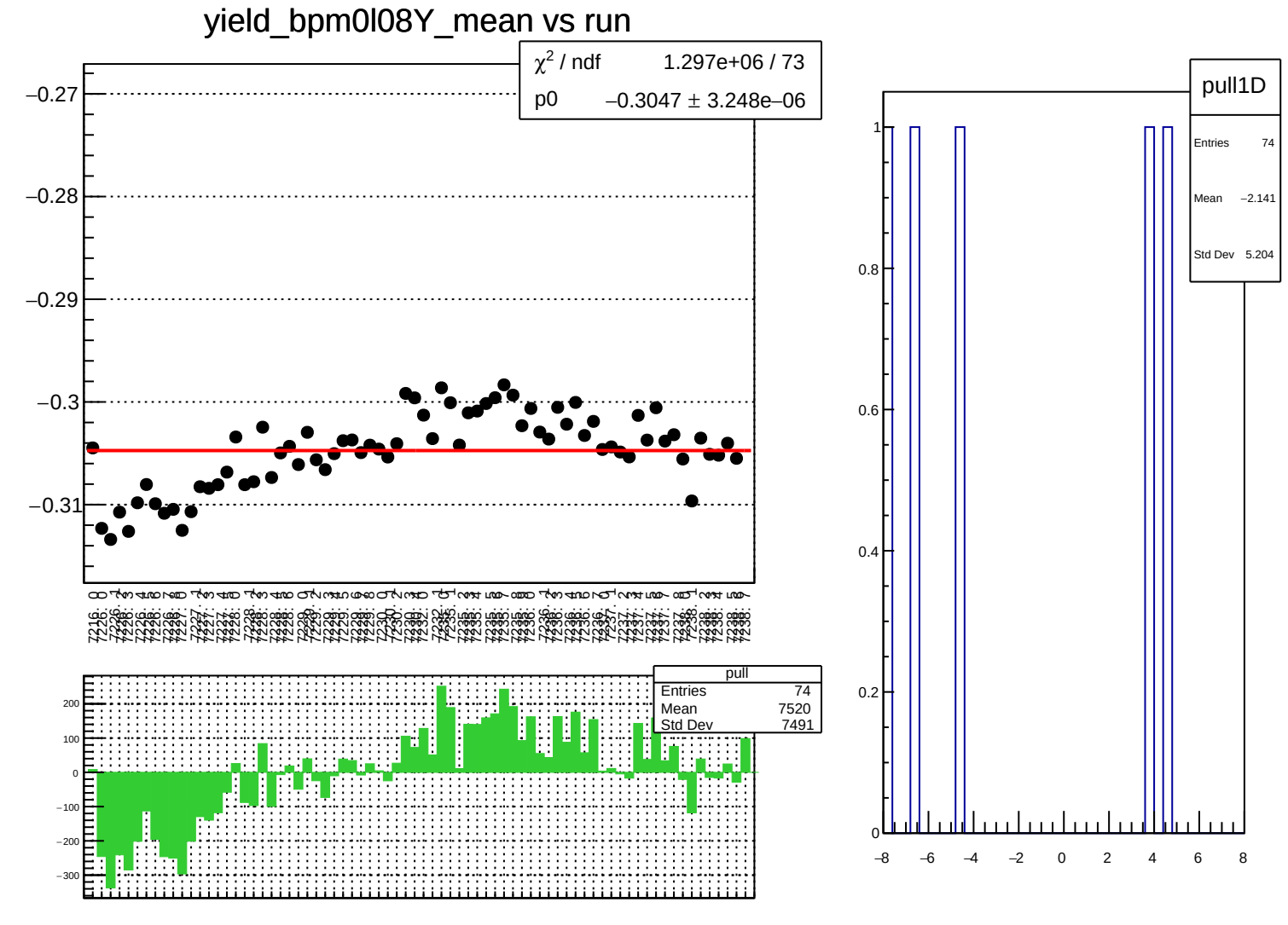

yield_bpm0l07X_rms vs run
χ^2 / ndf 5.522e+04 / 73
p0 0.0117 ± 1.005e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

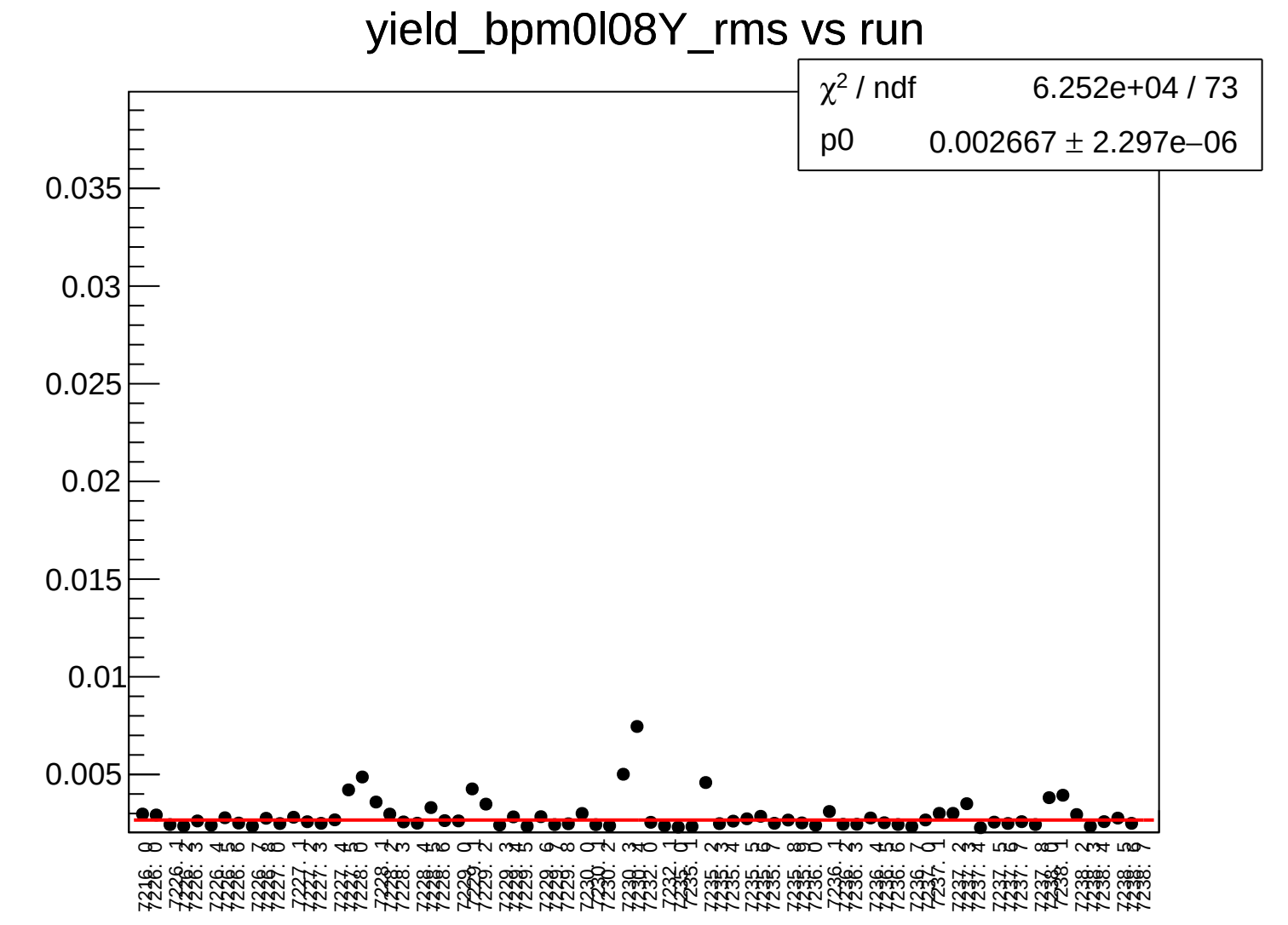

yield_bpm0l07Y_mean vs run
χ² / ndf 7.898e+06 / 73
p0 0.2126 ± 2.341e−06
pull
Entries 74
Mean −1596
Std Dev 1627
pull1D
Entries 74
Mean 0
Std Dev 0

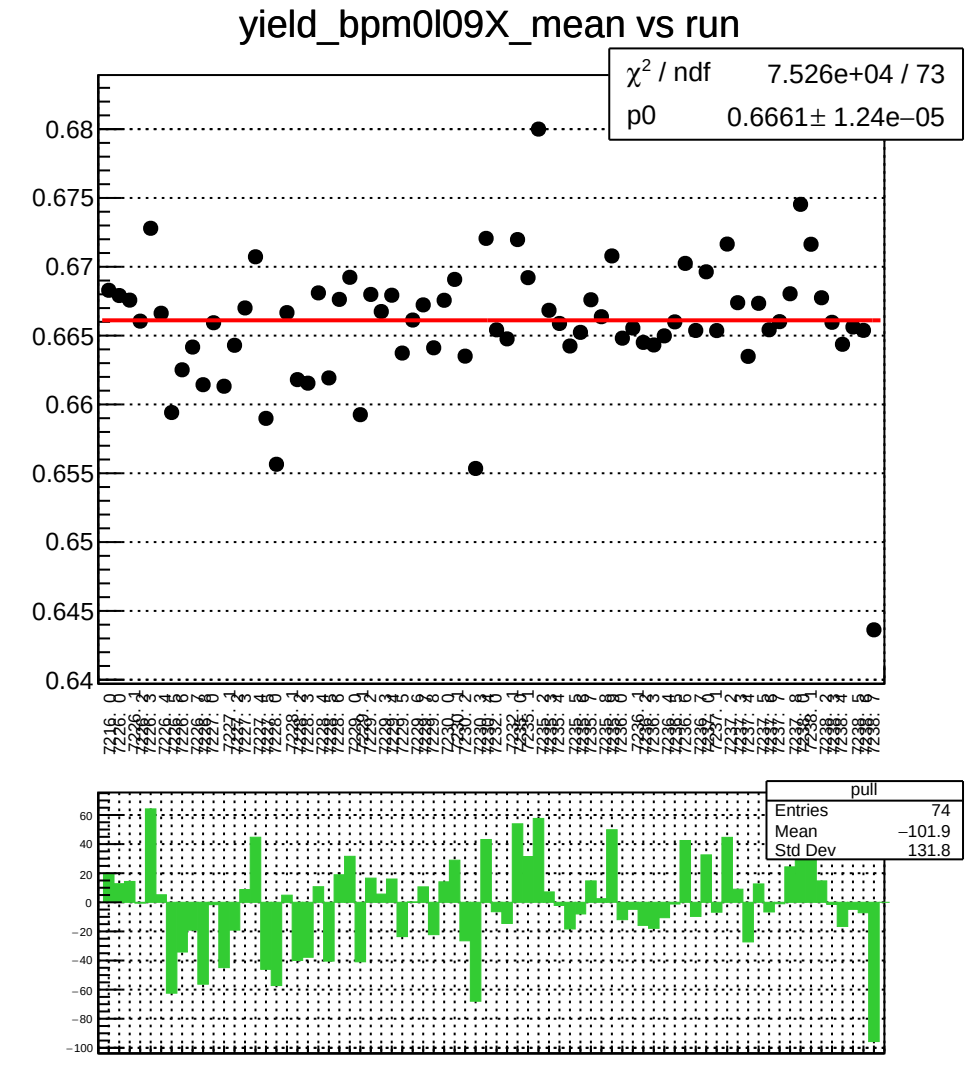

yield_bpm0l07Y_rms vs run
χ² / ndf 3940 / 73
p0 0.001964 ± 1.655e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

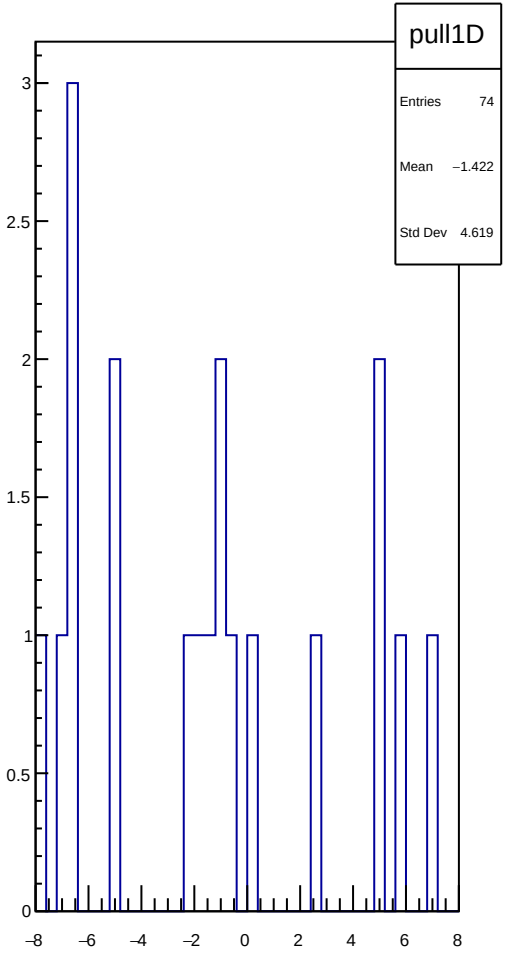

yield_bpm0l08X_mean vs run
χ² / ndf 9.944e+04 / 73
p0 0.08813 ± 1.281e−05
0.1
0.09
0.08
0.07
0.06
0.05
pull
Entries 74
Mean 339
Std Dev 305.7
100
50
0
−50
−100
pull1D
Entries 74
Mean −1.799
Std Dev 3.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

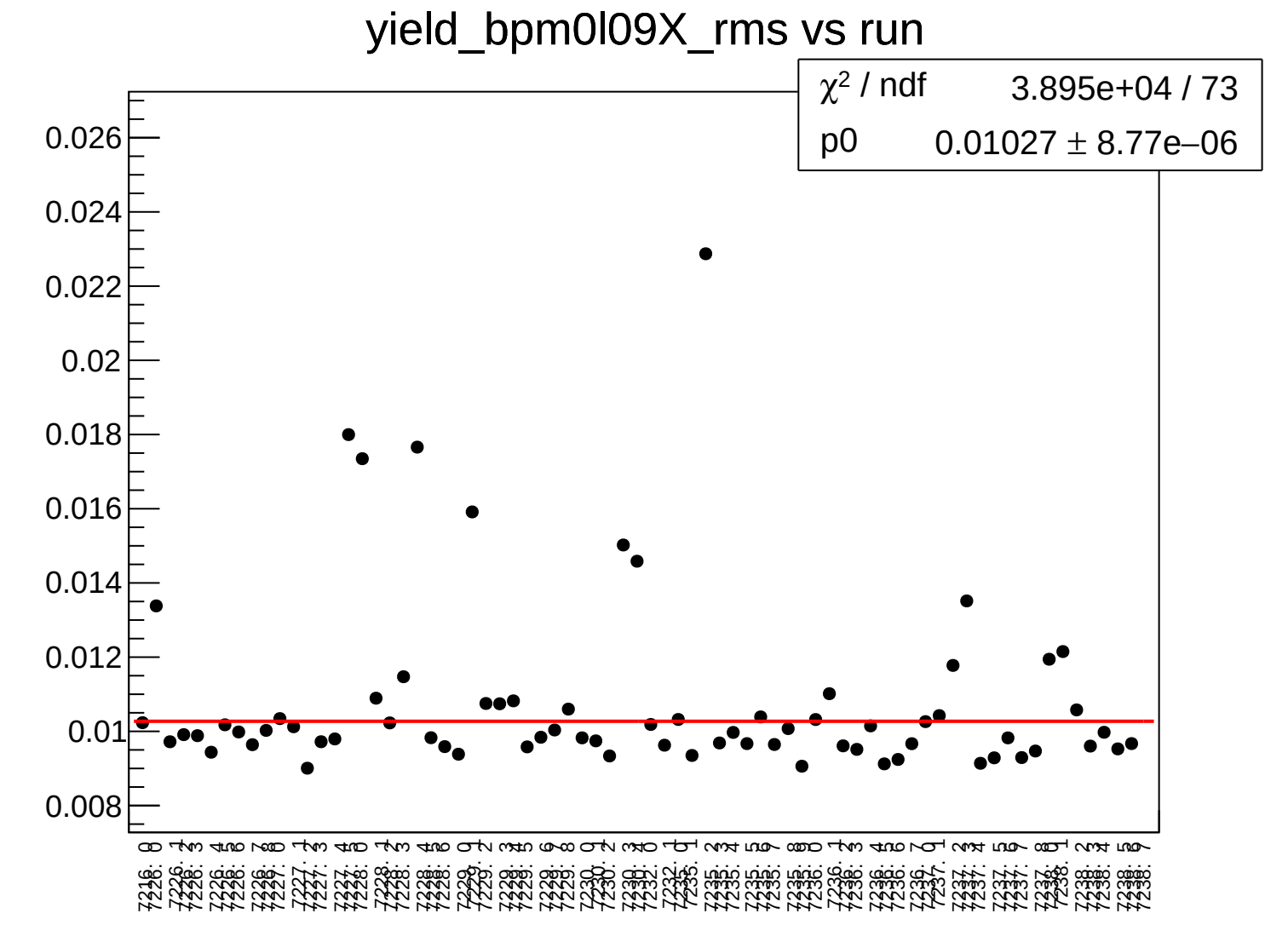

yield_bpm0l08X_rms vs run
χ² / ndf 5.12e+04 / 73
p0 0.01056 ± 9.056e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

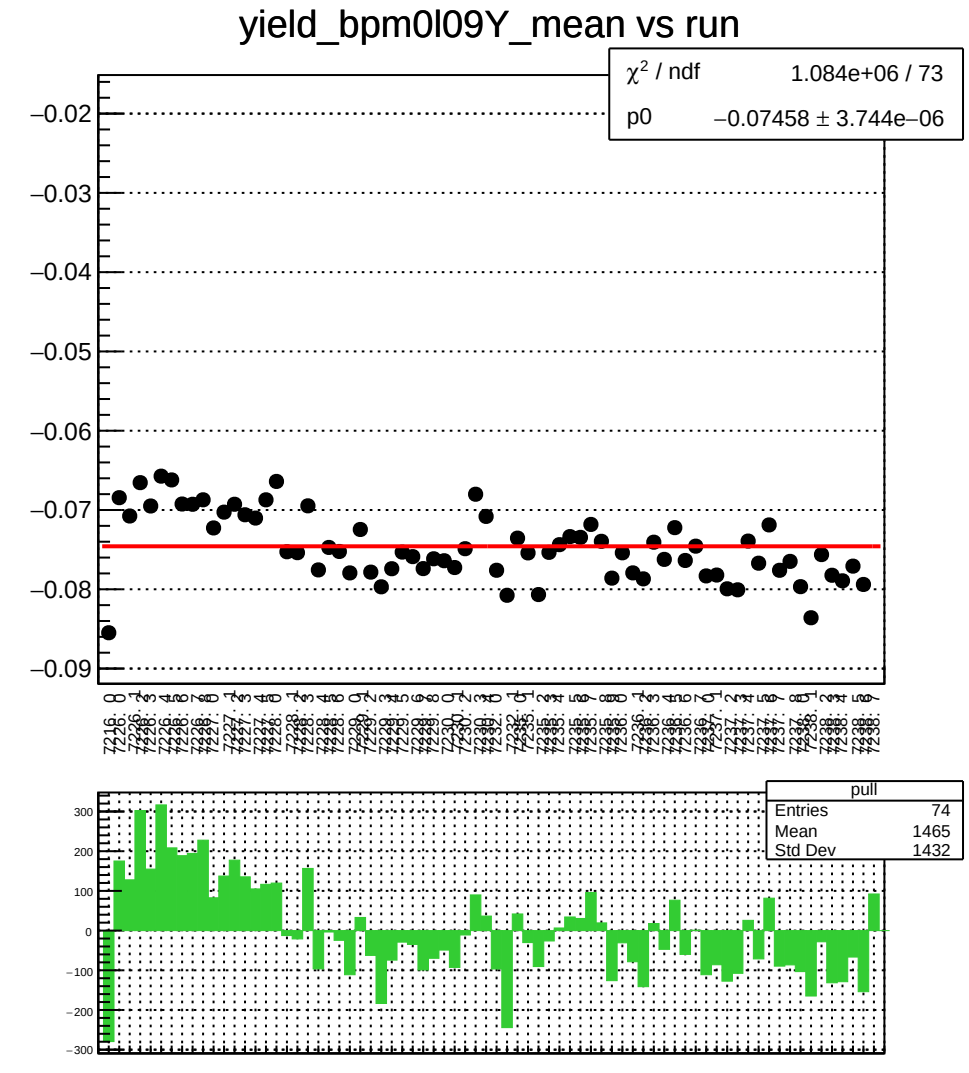

yield_bpm0l08Y_mean vs run
χ² / ndf 1.297e+06 / 73
p0 −0.3047 ± 3.248e−06
−0.27
−0.28
−0.29
−0.3
−0.31
pull
Entries 74
Mean 7520
Std Dev 7491
200
100
0
−100
−200
−300
pull1D
Entries 74
Mean −2.141
Std Dev 5.204
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

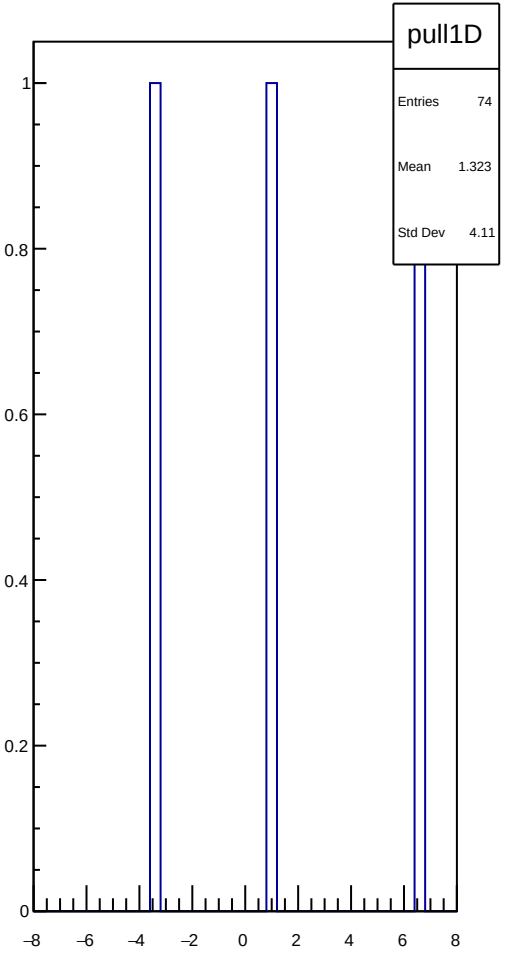

yield_bpm0l08Y_rms vs run
χ^2 / ndf 6.252e+04 / 73
p0 0.002667 ± 2.297e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

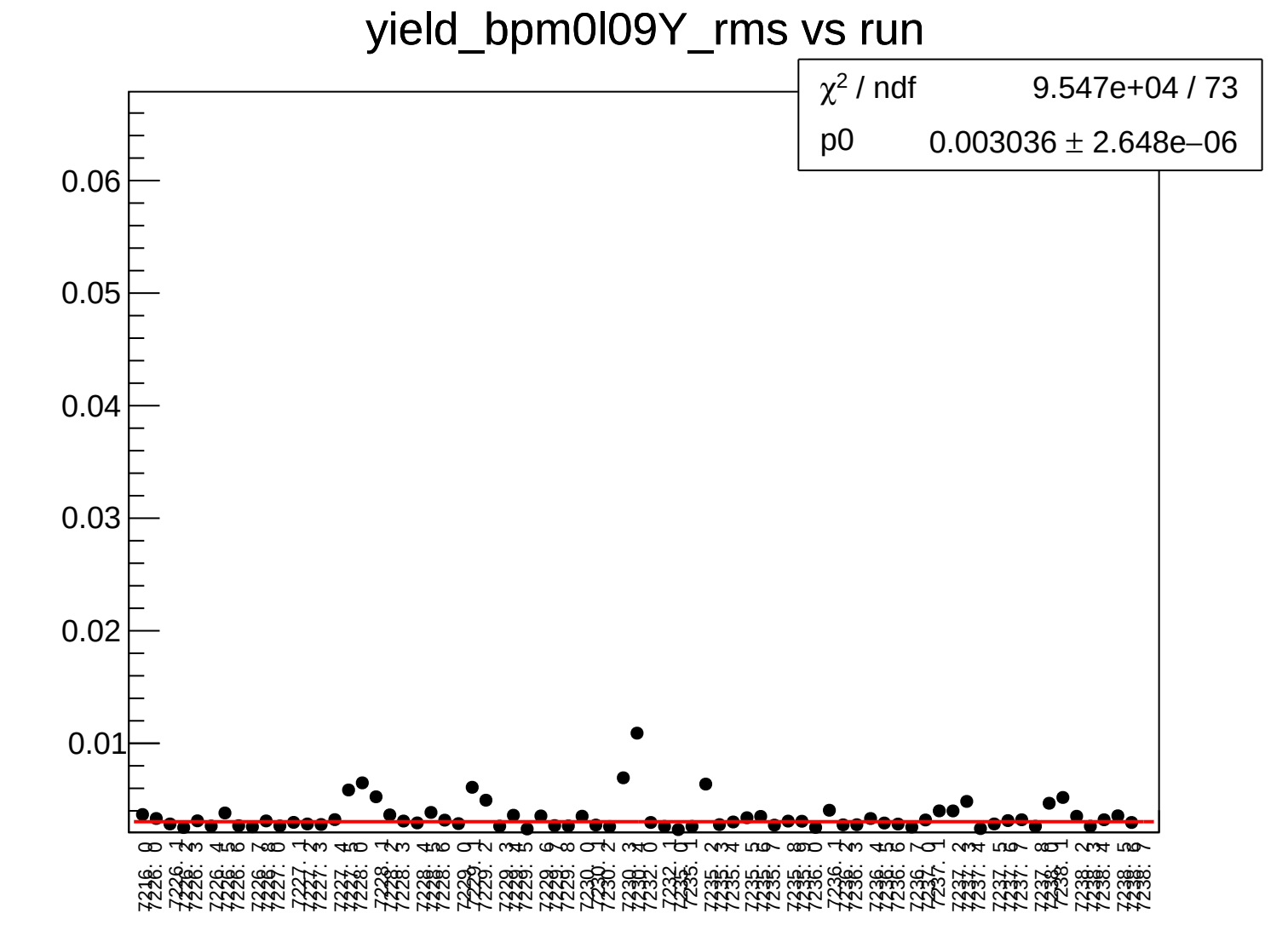

yield_bpm0l09X_mean vs run
χ² / ndf 7.526e+04 / 73
p0 0.6661± 1.24e−05
0.68
0.675
0.67
0.665
0.66
0.655
0.65
0.645
0.64
pull
Entries 74
Mean −101.9
Std Dev 131.8
60
40
20
0
−20
−40
−60
−80
−100

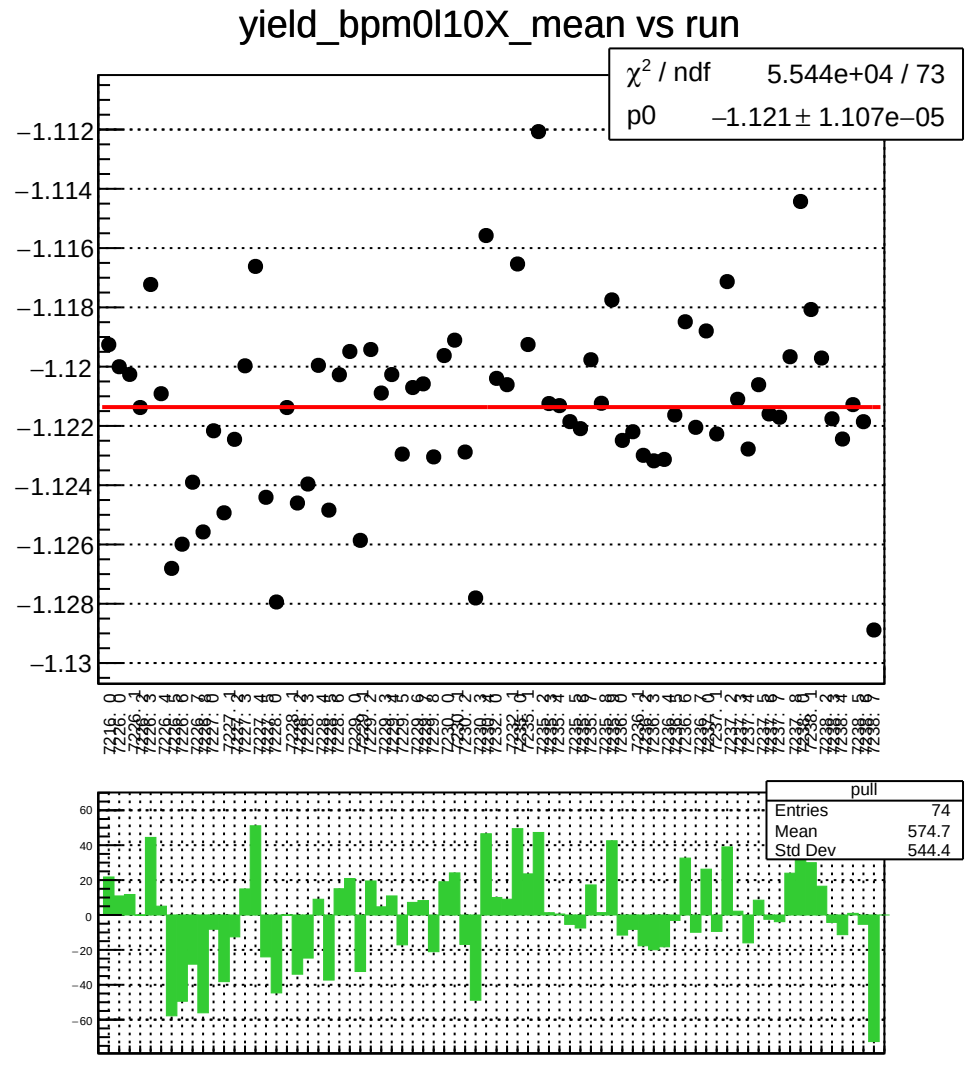

pull1D
Entries 74
Mean −1.422
Std Dev 4.619
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

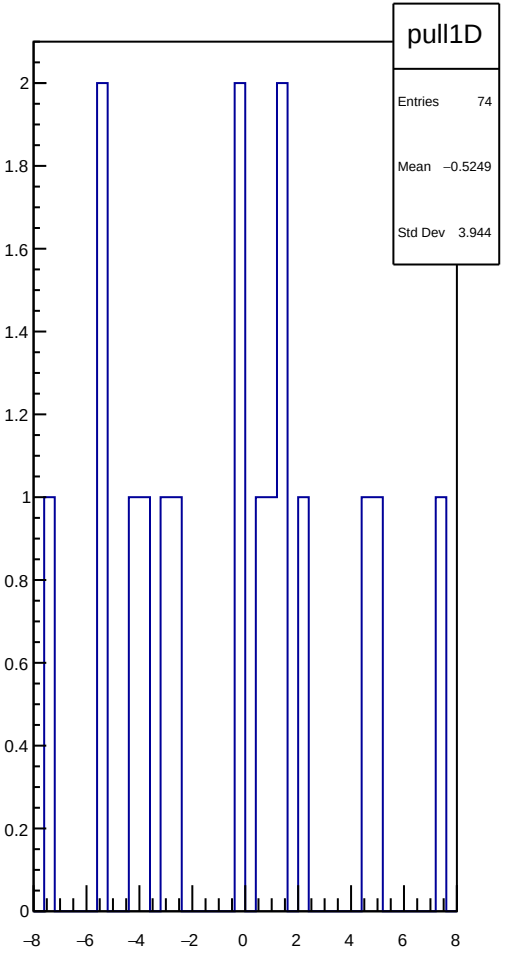

yield_bpm0l09X_rms vs run
χ² / ndf 3.895e+04 / 73
p0 0.01027 ± 8.77e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

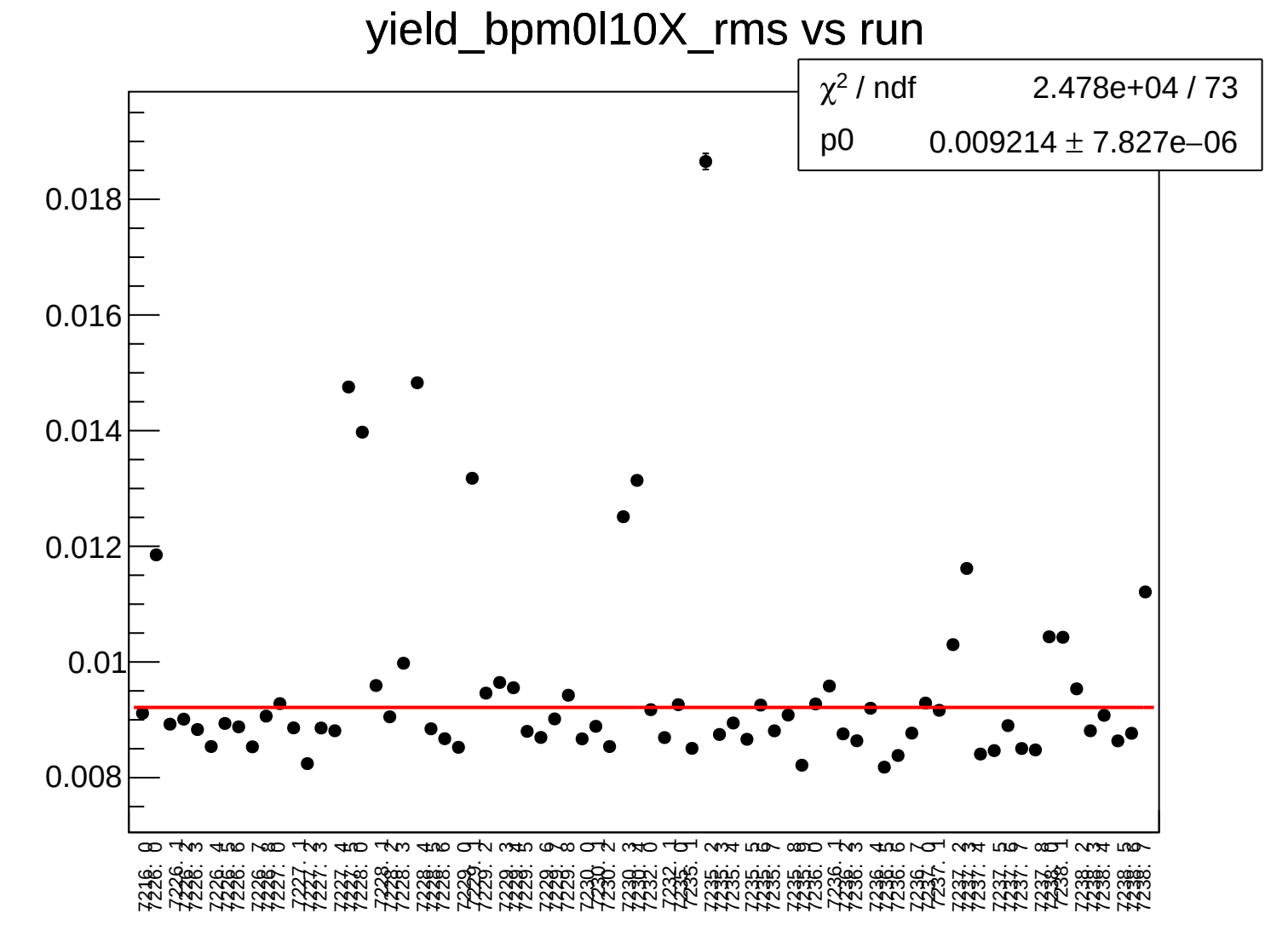

yield_bpm0l09Y_mean vs run
χ² / ndf 1.084e+06 / 73
p0 −0.07458 ± 3.744e−06
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
pull
Entries 74
Mean 1465
Std Dev 1432
300
200
100
0
−100
−200
−300

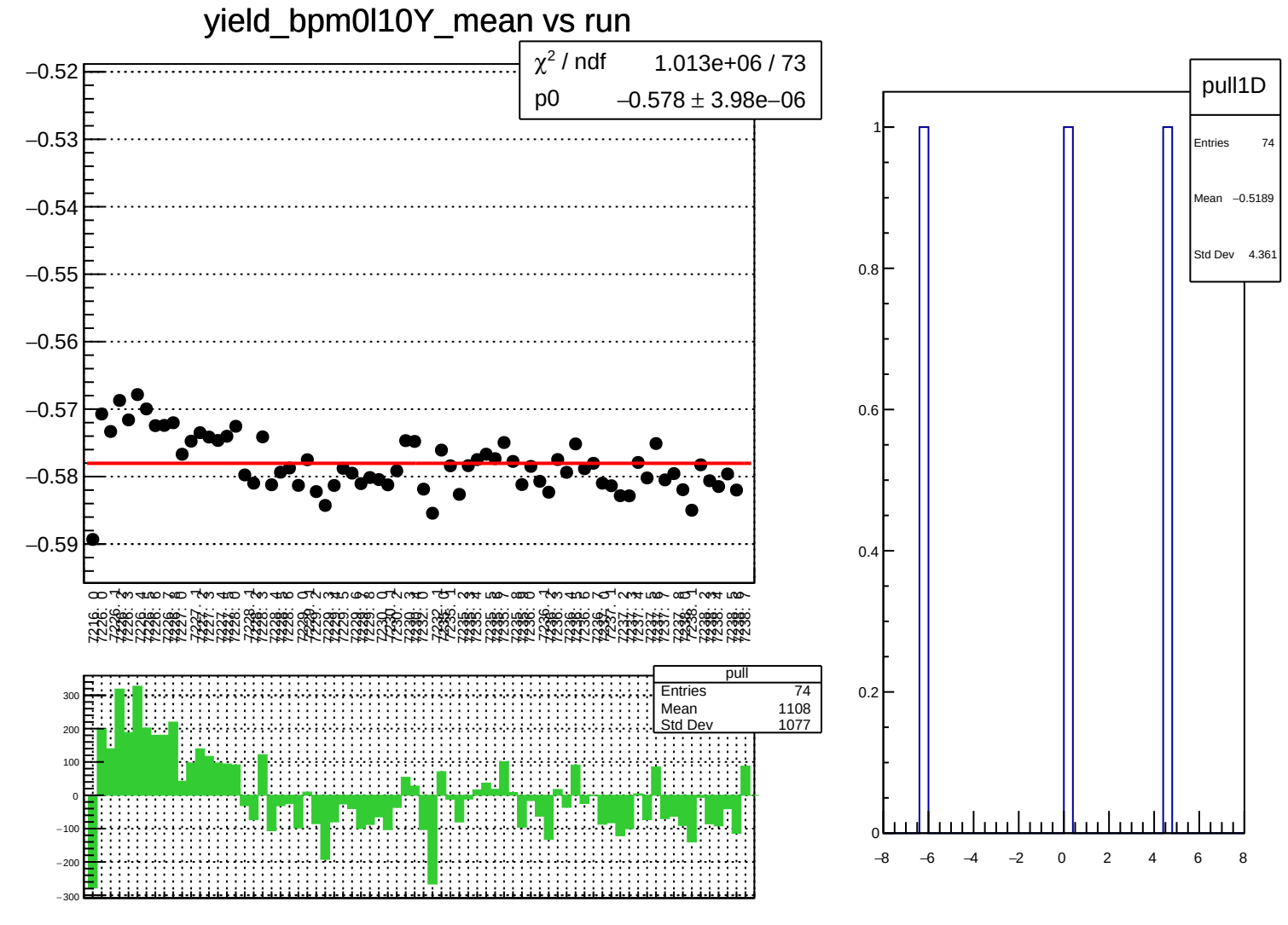

pull1D
Entries 74
Mean 1.323
Std Dev 4.11
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

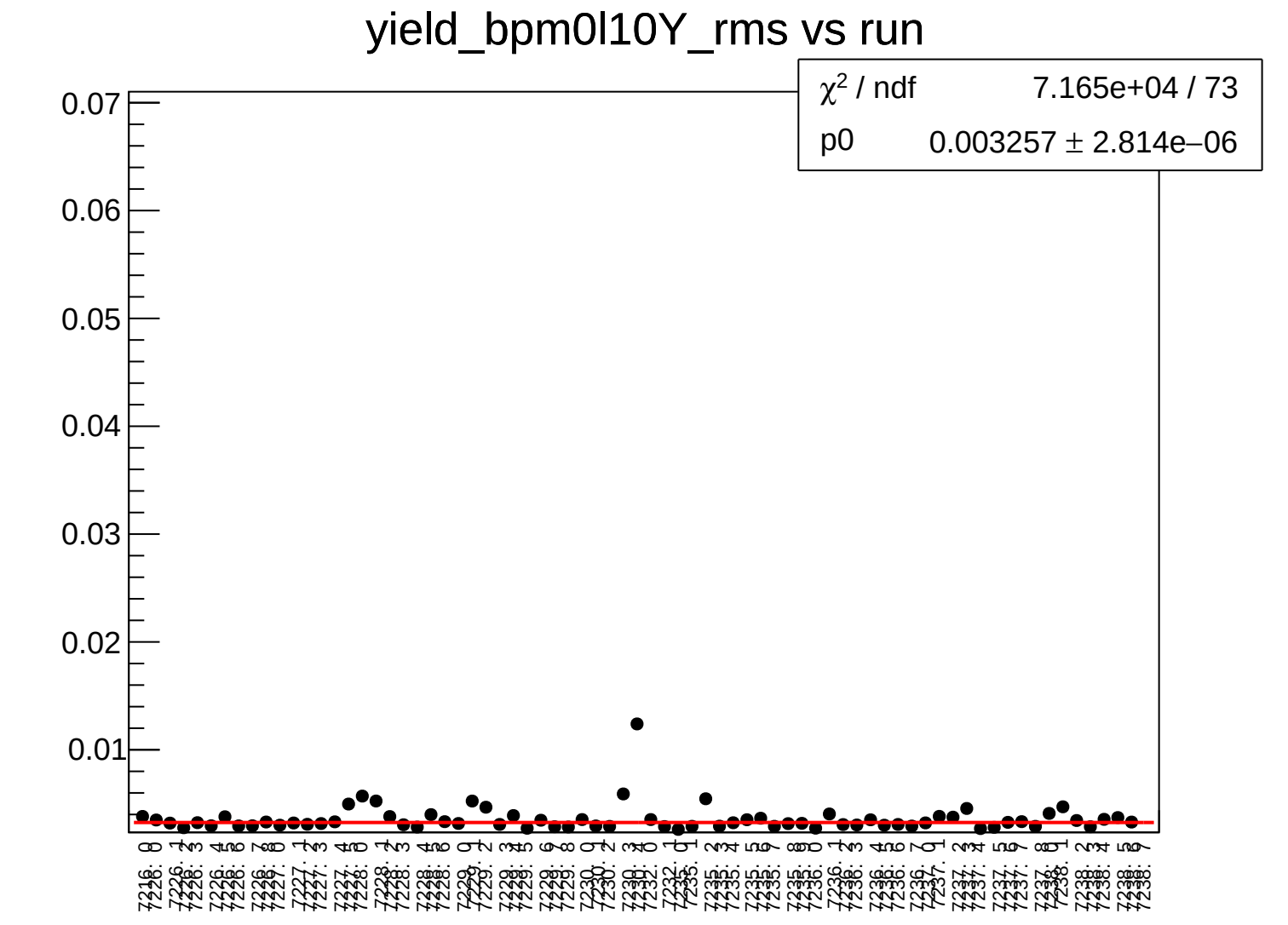

yield_bpm0l09Y_rms vs run
χ^2 / ndf 9.547e+04 / 73
p0 0.003036 ± 2.648e−06
0.06
0.05
0.04
0.03
0.02
0.01

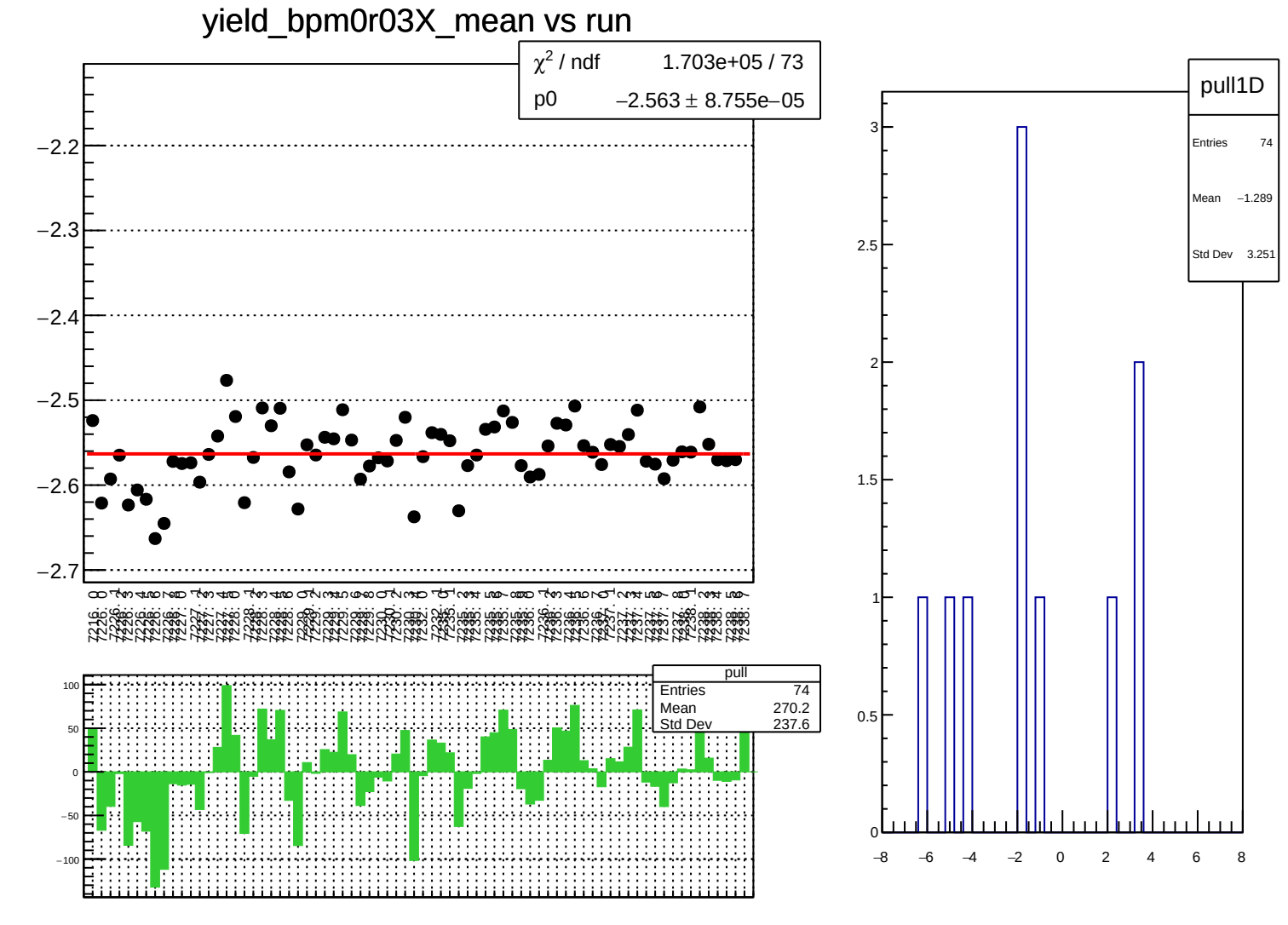

yield_bpm0l10X_mean vs run
χ² / ndf 5.544e+04 / 73
p0 −1.121 ± 1.107e−05
−1.112
−1.114
−1.116
−1.118
−1.12
−1.122
−1.124
−1.126
−1.128
−1.13
pull
Entries 74
Mean 574.7
Std Dev 544.4
60
40
20
0
−20
−40
−60

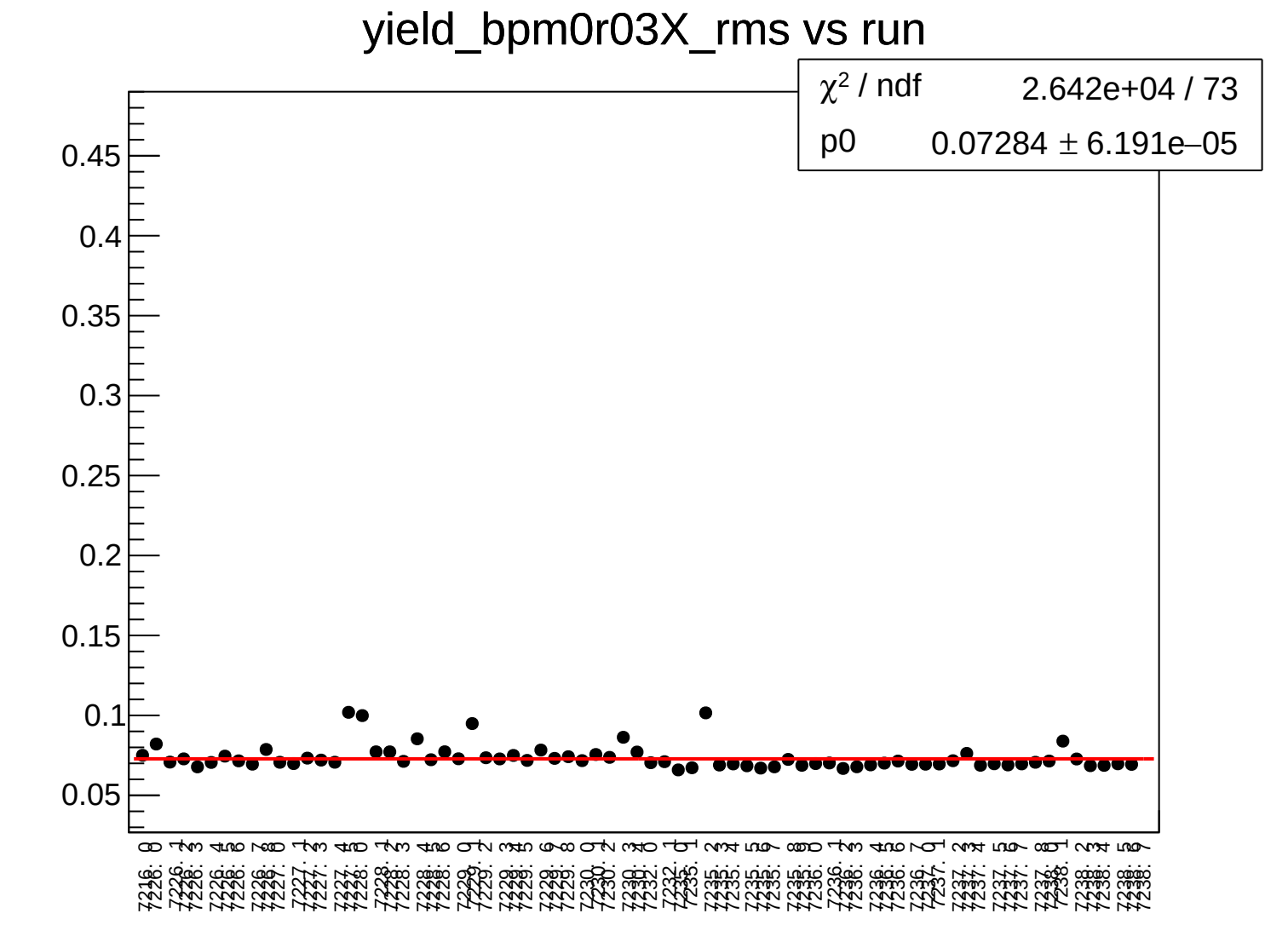

pull1D
Entries 74
Mean −0.5249
Std Dev 3.944
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

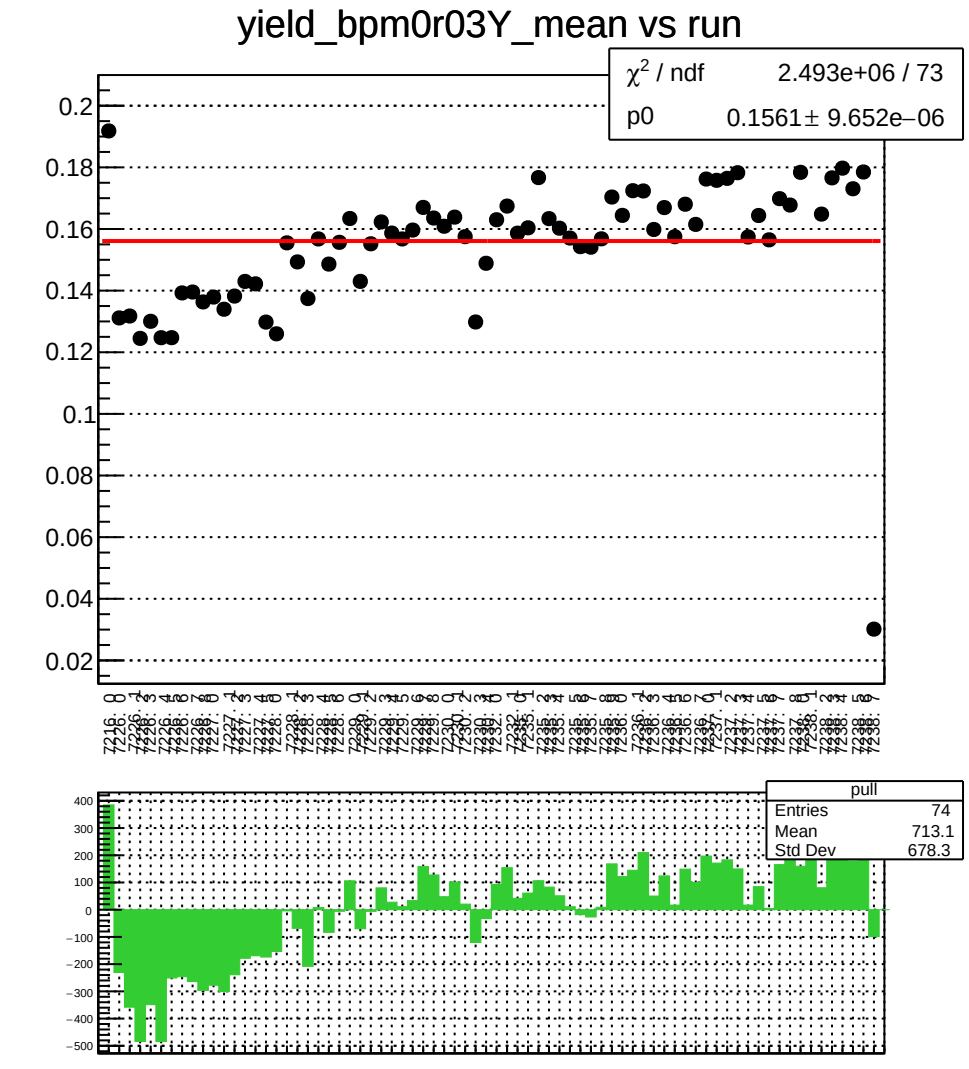

yield_bpm0l10X_rms vs run
χ² / ndf 2.478e+04 / 73
p0 0.009214 ± 7.827e−06
0.018
0.016
0.014
0.012
0.01
0.008

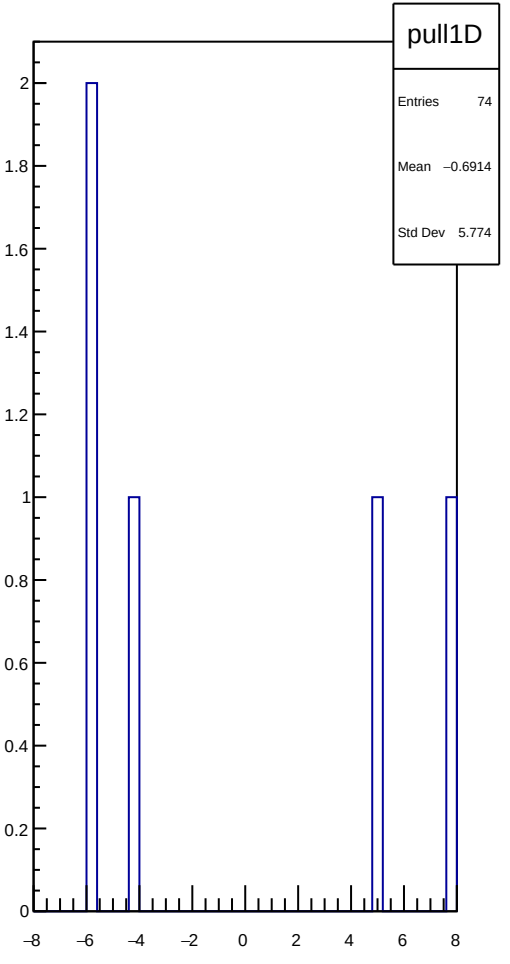

yield_bpm0l10Y_mean vs run
χ² / ndf 1.013e+06 / 73
p0 −0.578 ± 3.98e−06
pull
Entries 74
Mean 1108
Std Dev 1077
pull1D
Entries 74
Mean −0.5189
Std Dev 4.361

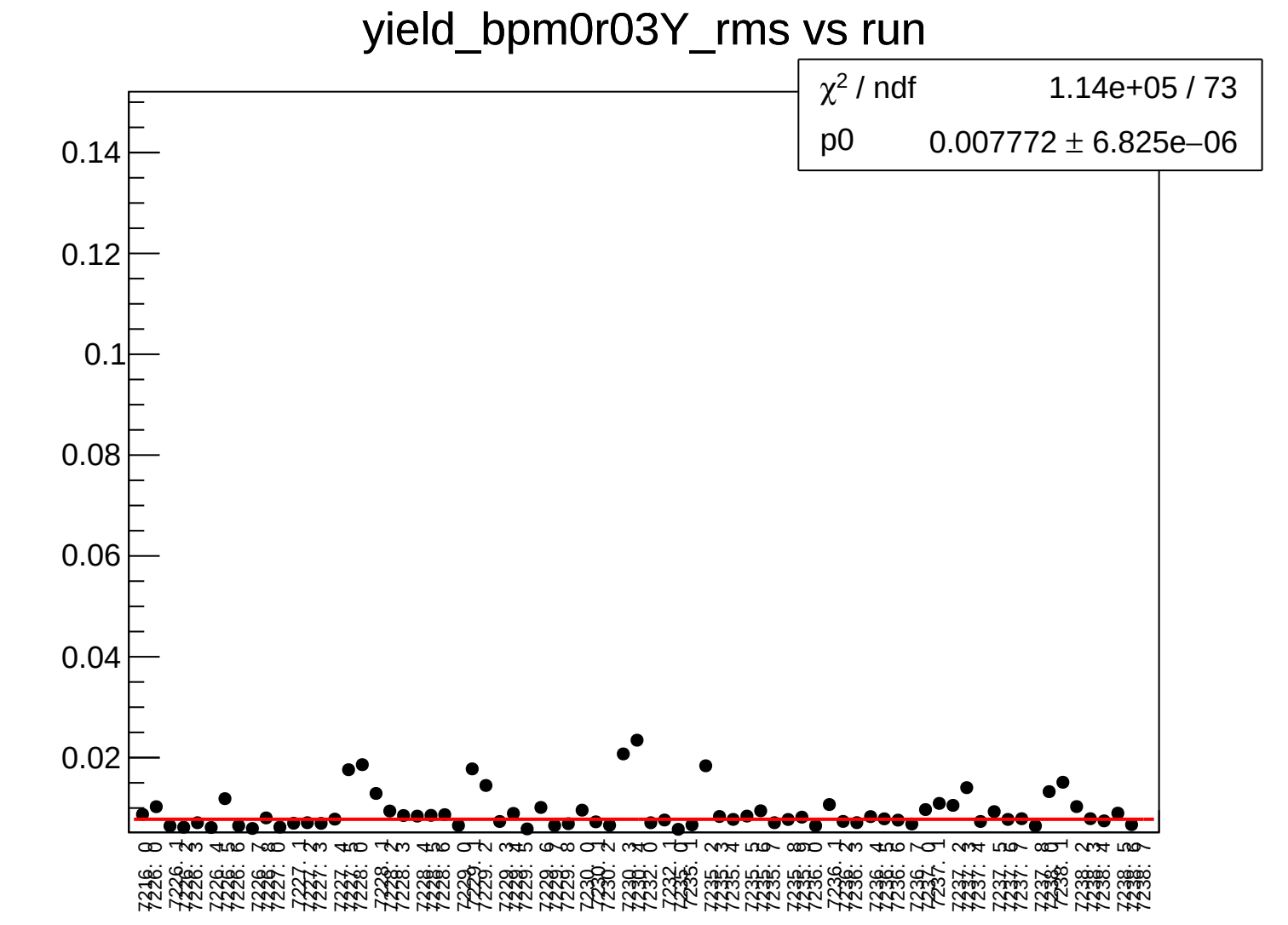

yield_bpm0l10Y_rms vs run
χ² / ndf 7.165e+04 / 73
p0 0.003257 ± 2.814e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

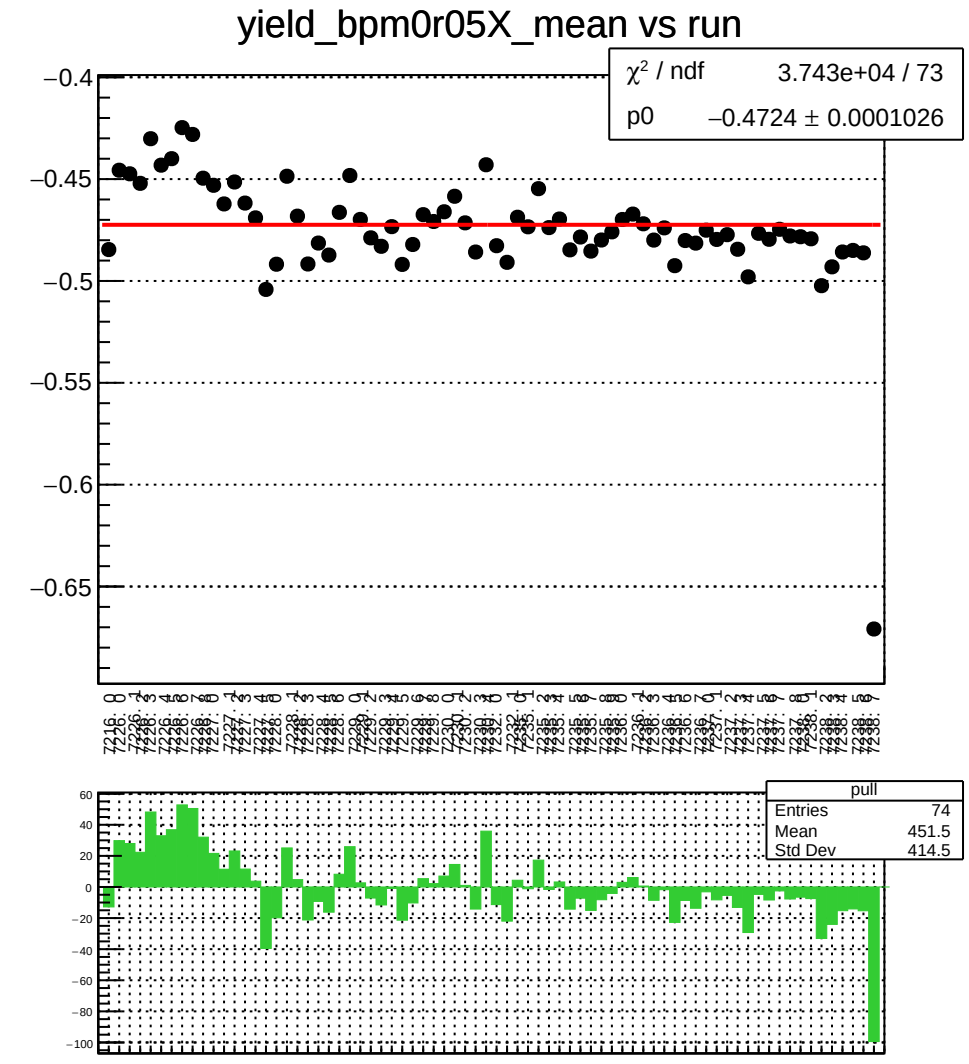

yield_bpm0r03X_mean vs run
χ² / ndf 1.703e+05 / 73
p0 −2.563 ± 8.755e−05
−2.2
−2.3
−2.4
−2.5
−2.6
−2.7
pull
Entries 74
Mean 270.2
Std Dev 237.6
100
50
0
−50
−100
pull1D
Entries 74
Mean −1.289
Std Dev 3.251
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

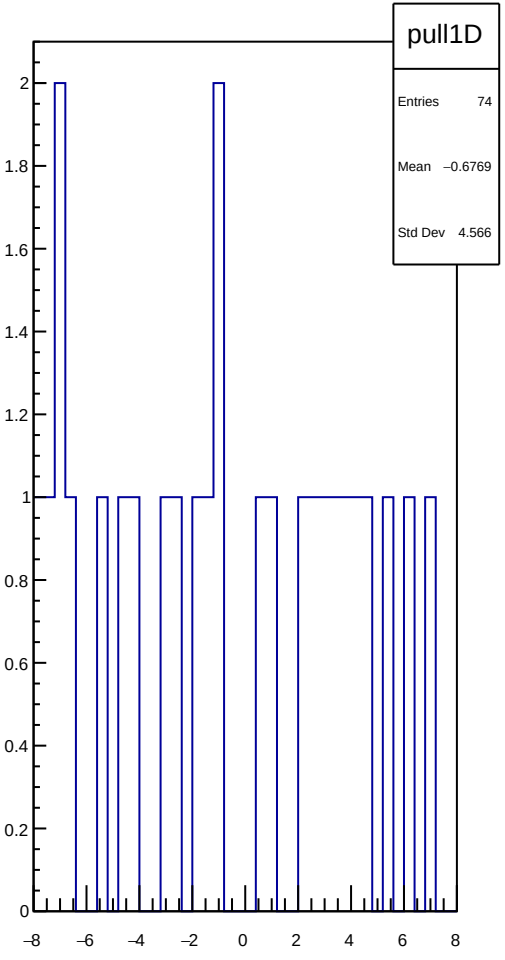

yield_bpm0r03X_rms vs run
χ² / ndf 2.642e+04 / 73
p0 0.07284 ± 6.191e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

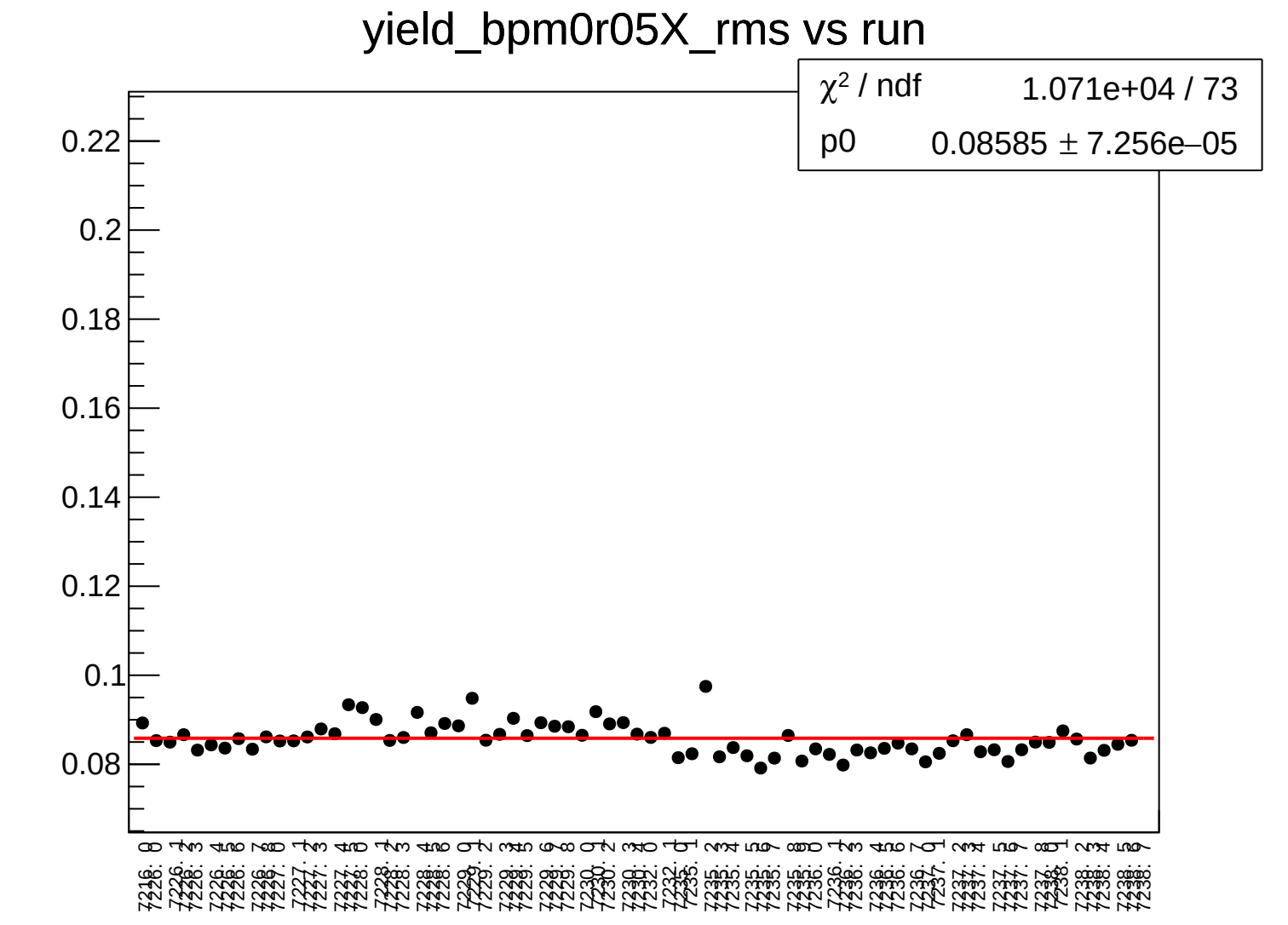

yield_bpm0r03Y_mean vs run
χ² / ndf 2.493e+06 / 73
p0 0.1561 ± 9.652e−06
pull
Entries 74
Mean 713.1
Std Dev 678.3

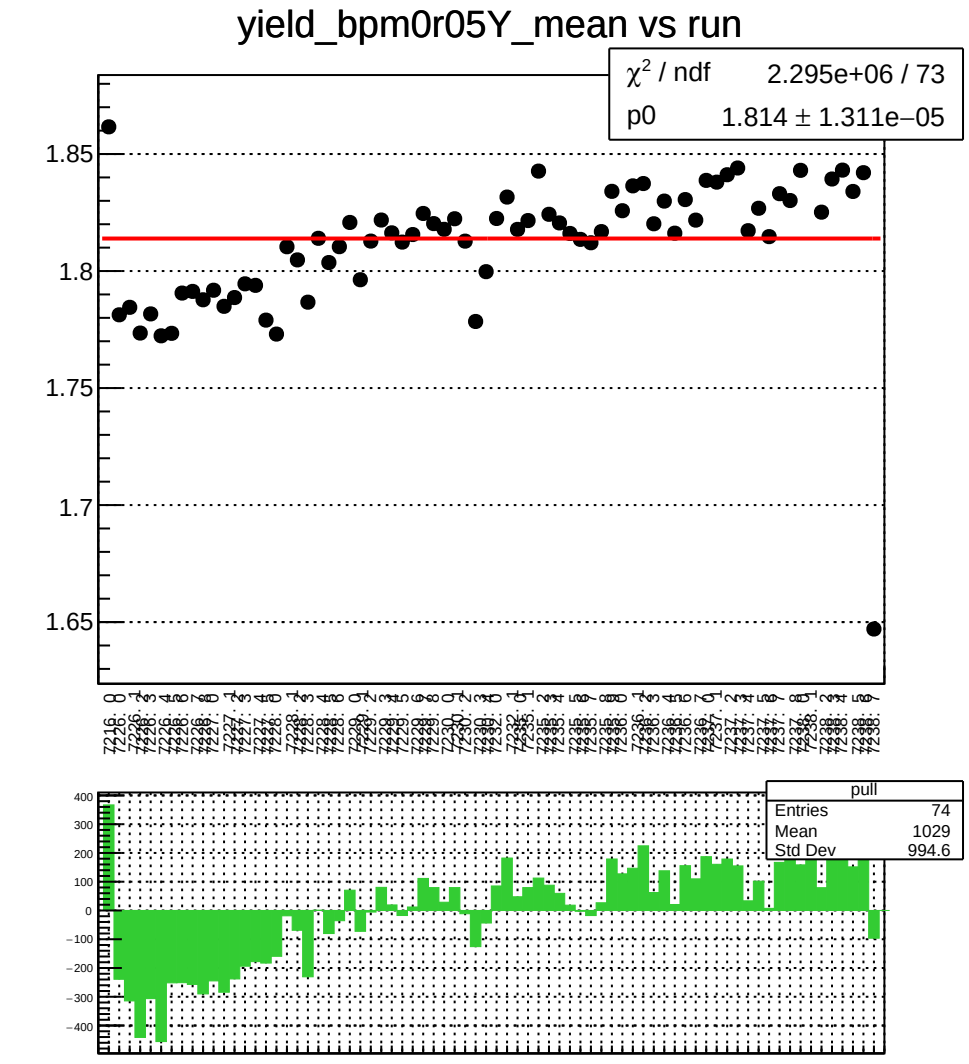

pull1D
Entries 74
Mean −0.6914
Std Dev 5.774

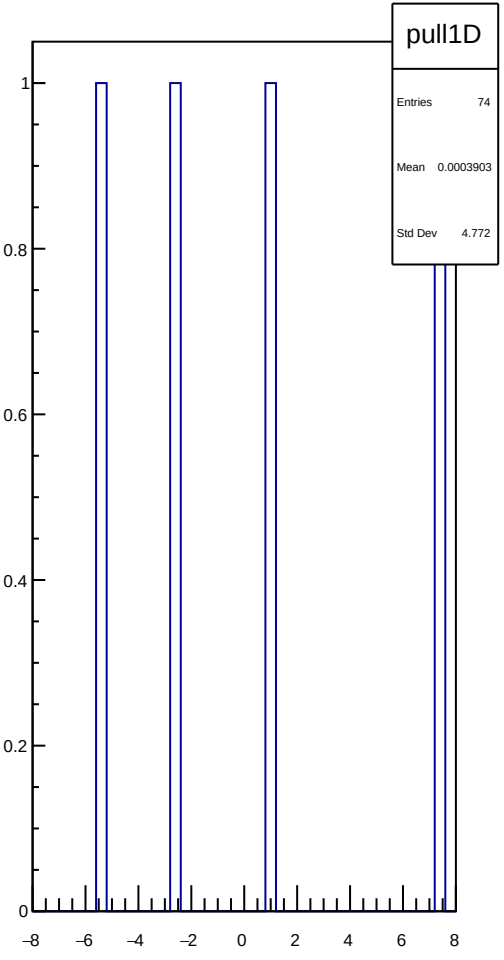

yield_bpm0r03Y_rms vs run
χ^2 / ndf 1.14e+05 / 73
p0 0.007772 ± 6.825e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

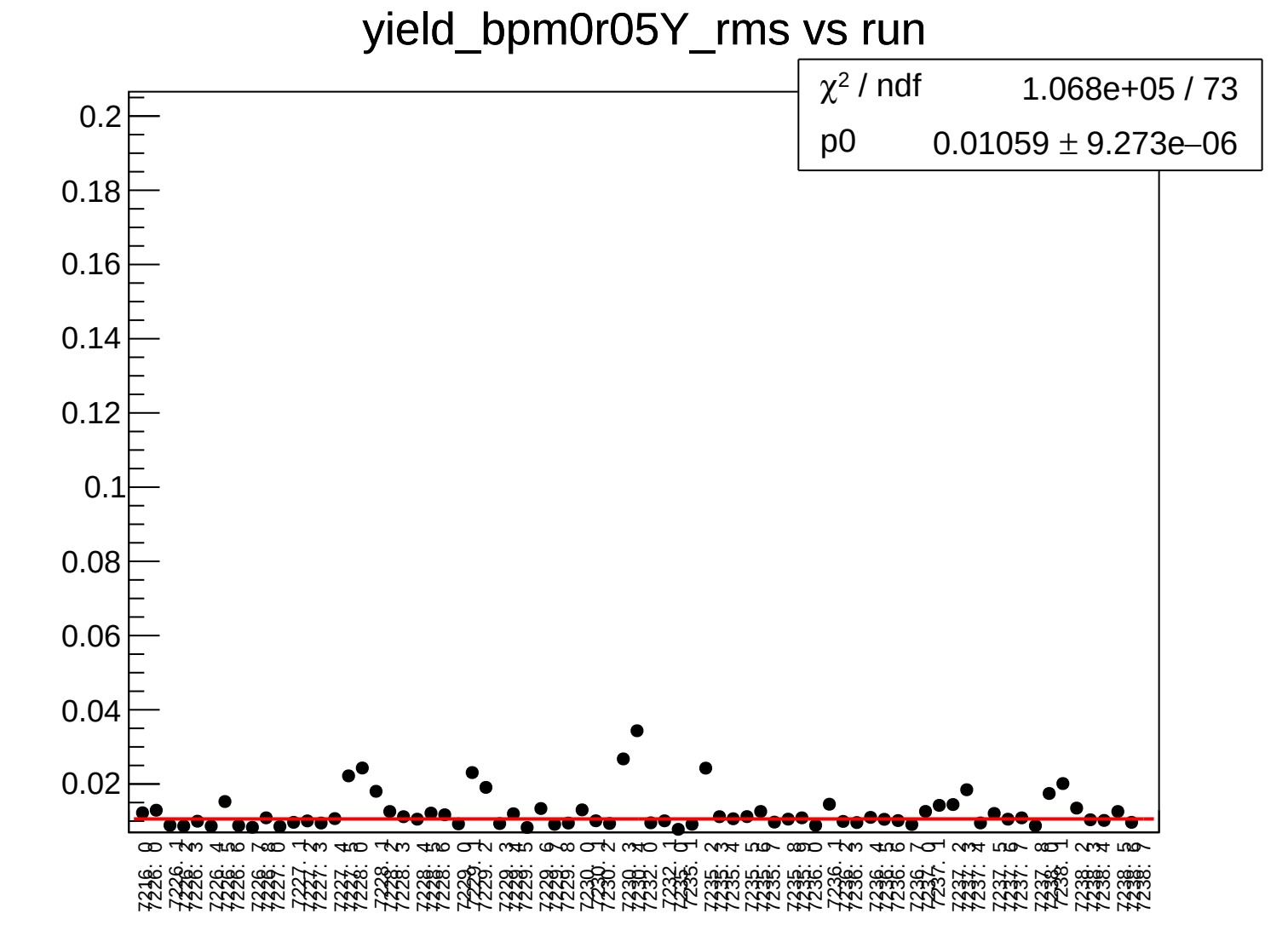

yield_bpm0r05X_mean vs run
χ² / ndf 3.743e+04 / 73
p0 −0.4724 ± 0.0001026
pull
Entries 74
Mean 451.5
Std Dev 414.5

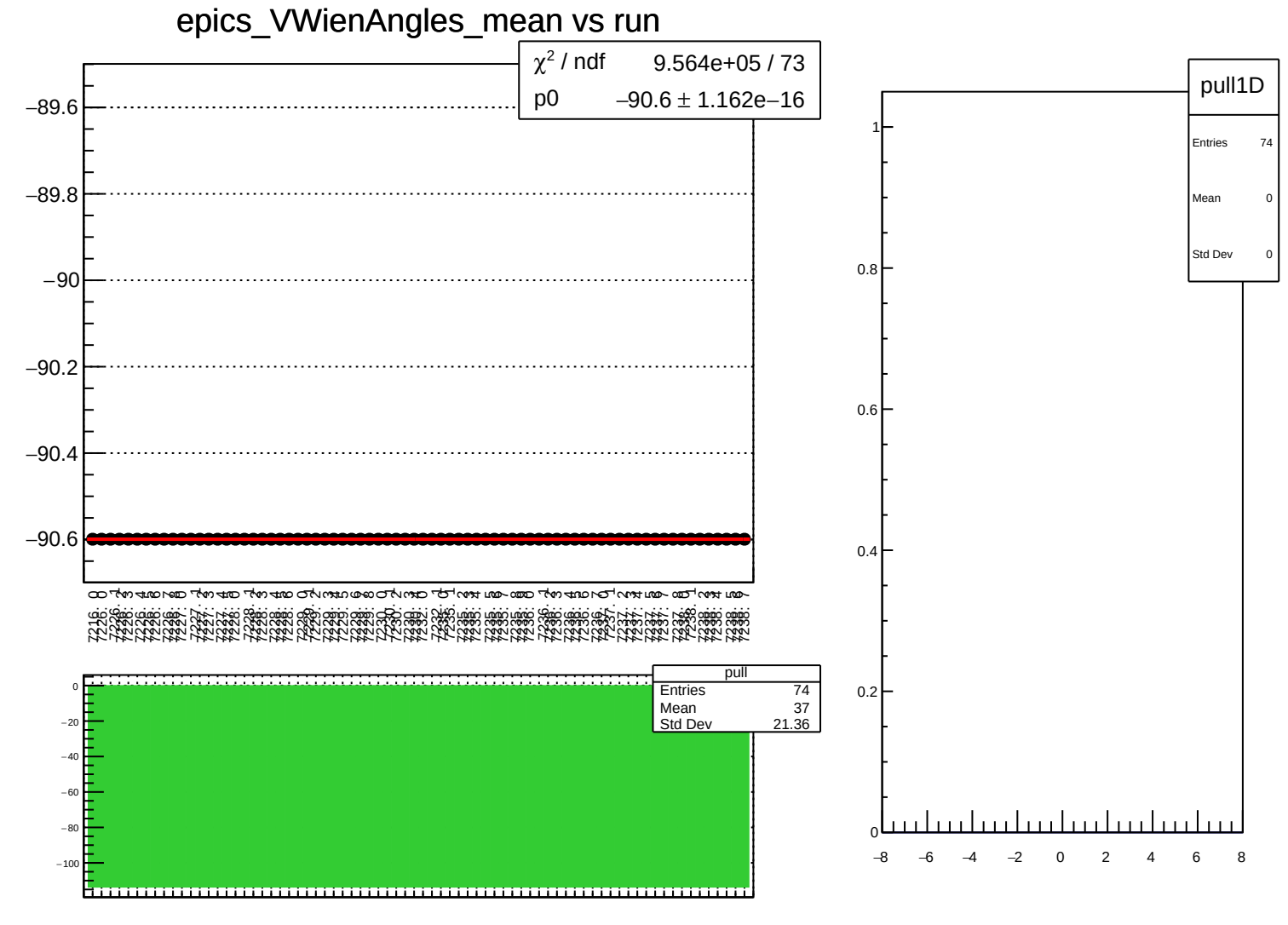

pull1D
Entries 74
Mean −0.6769
Std Dev 4.566

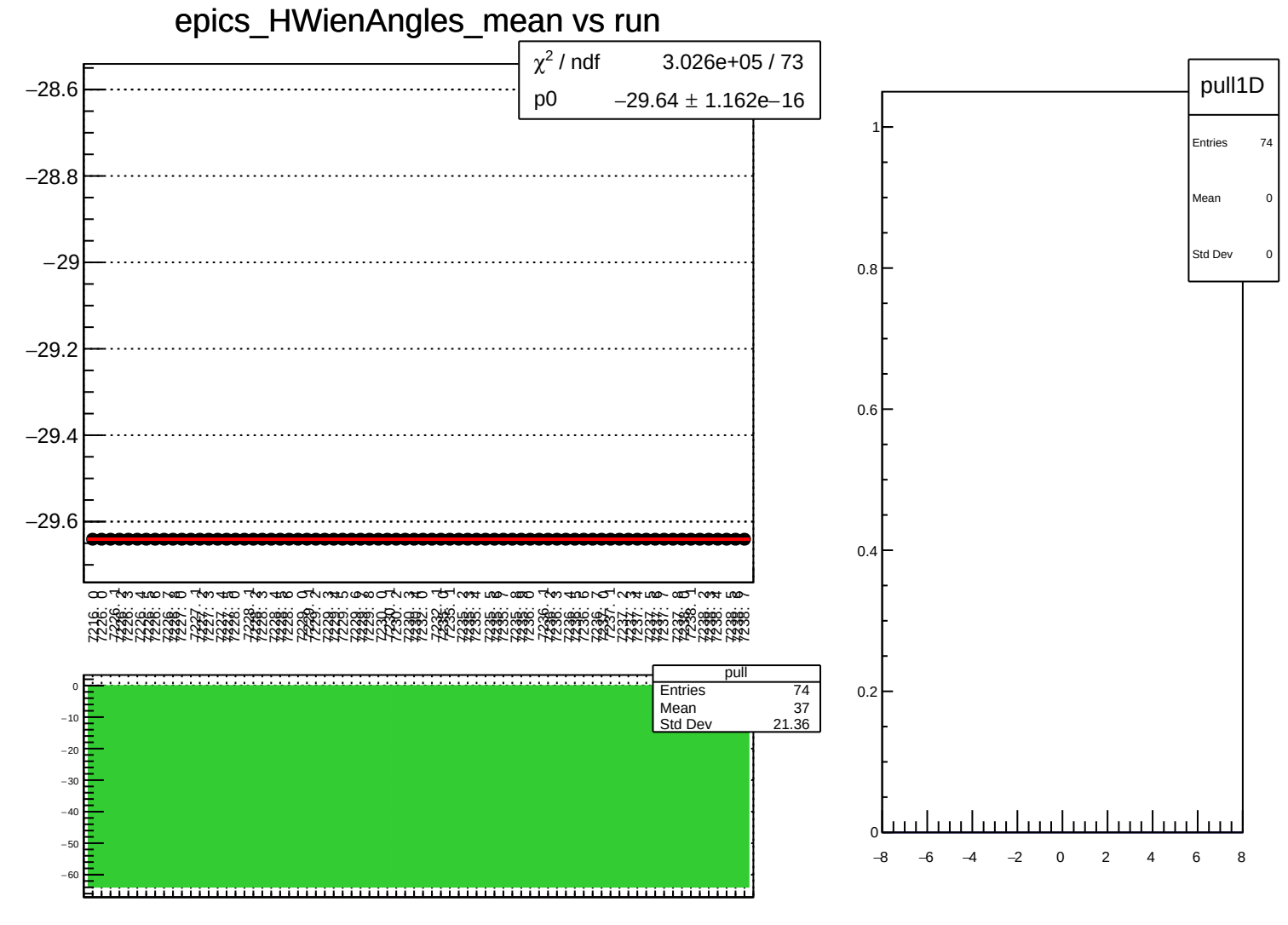

yield_bpm0r05X_rms vs run
χ² / ndf 1.071e+04 / 73
p0 0.08585 ± 7.256e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

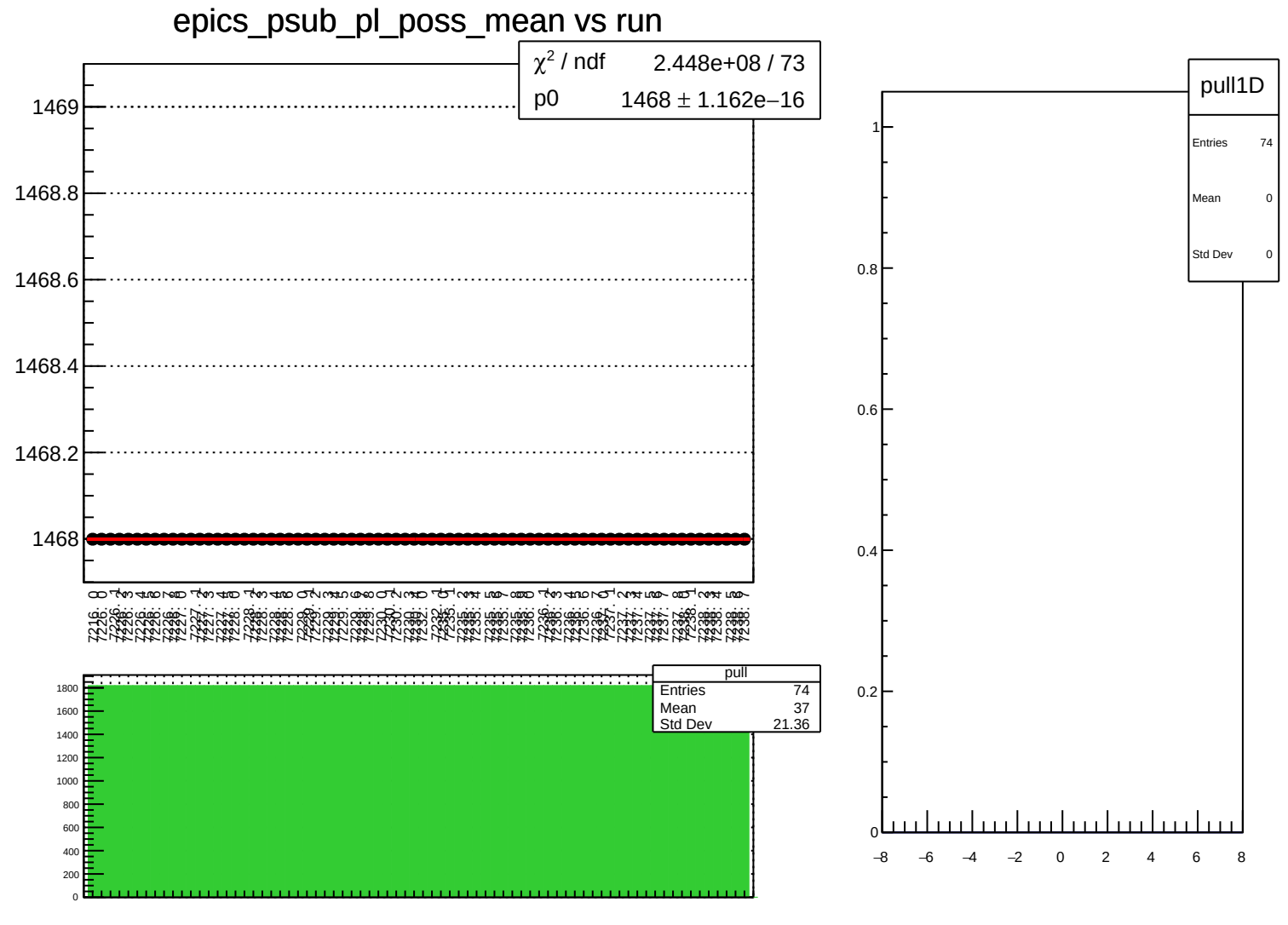

yield_bpm0r05Y_mean vs run
χ² / ndf 2.295e+06 / 73
p0 1.814 ± 1.311e−05
1.85
1.8
1.75
1.7
1.65
pull
Entries 74
Mean 1029
Std Dev 994.6
400
300
200
100
0
−100
−200
−300
−400

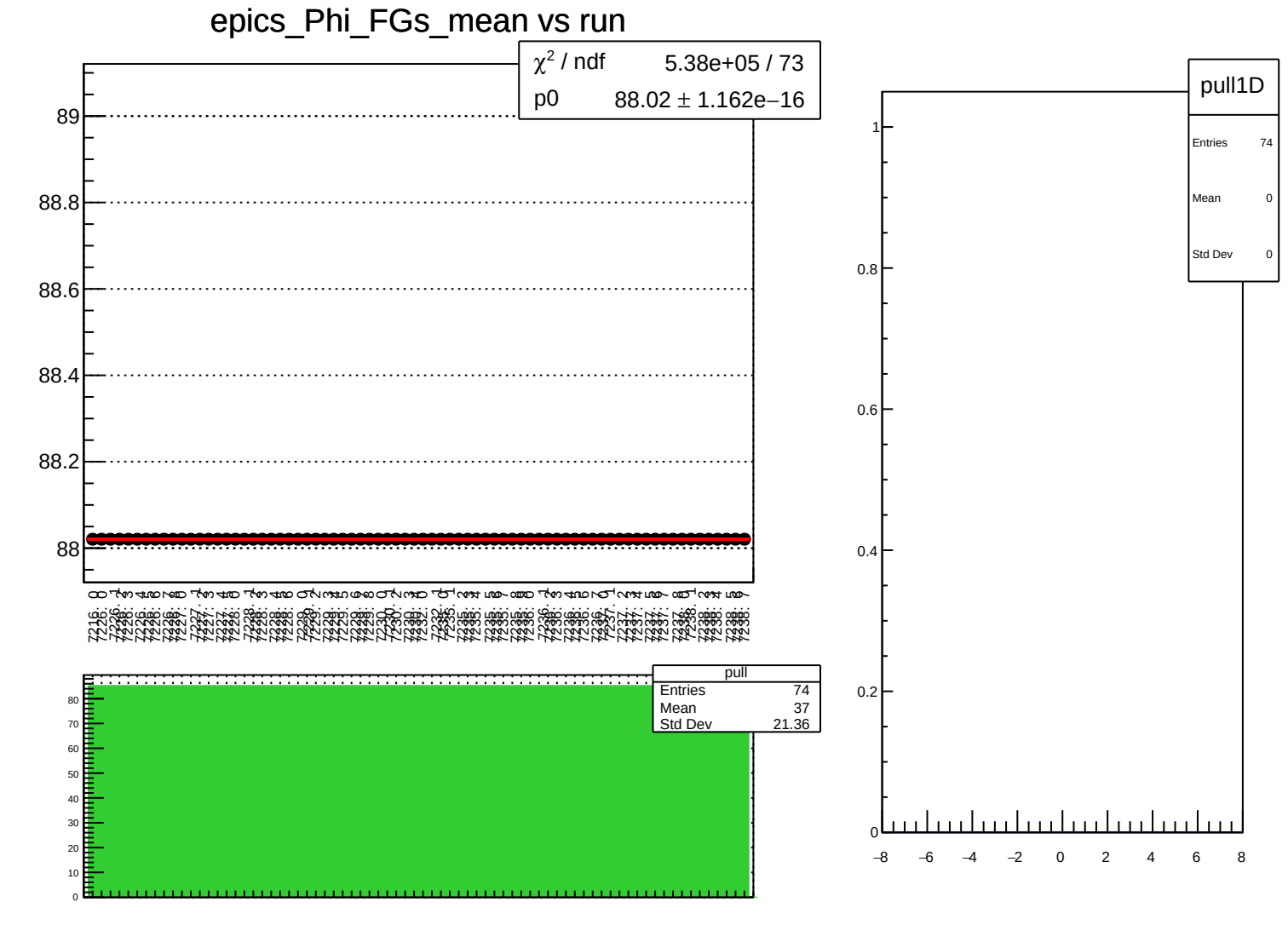

pull1D
Entries 74
Mean 0.0003903
Std Dev 4.772
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

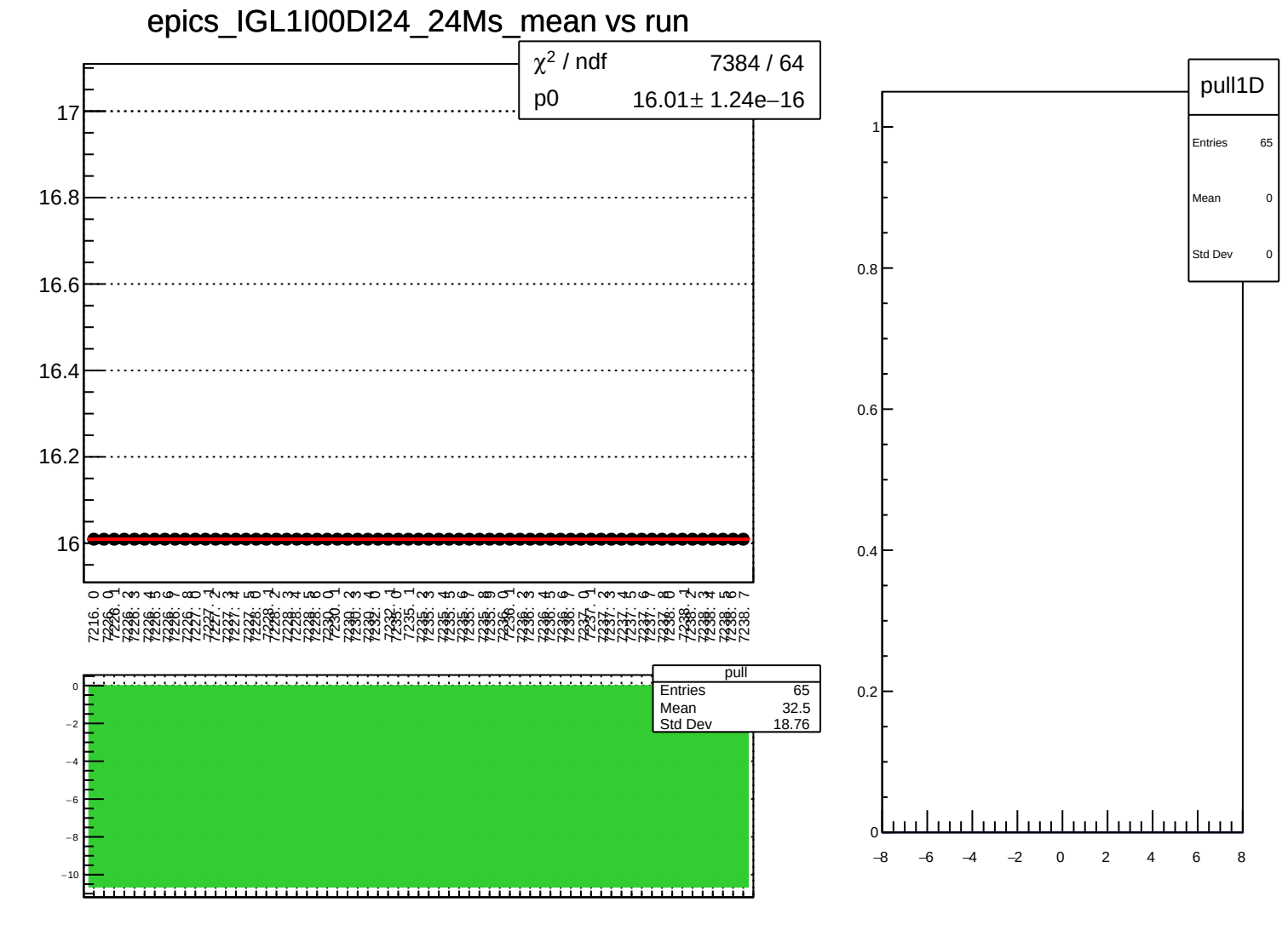

yield_bpm0r05Y_rms vs run
χ² / ndf 1.068e+05 / 73
p0 0.01059 ± 9.273e–06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

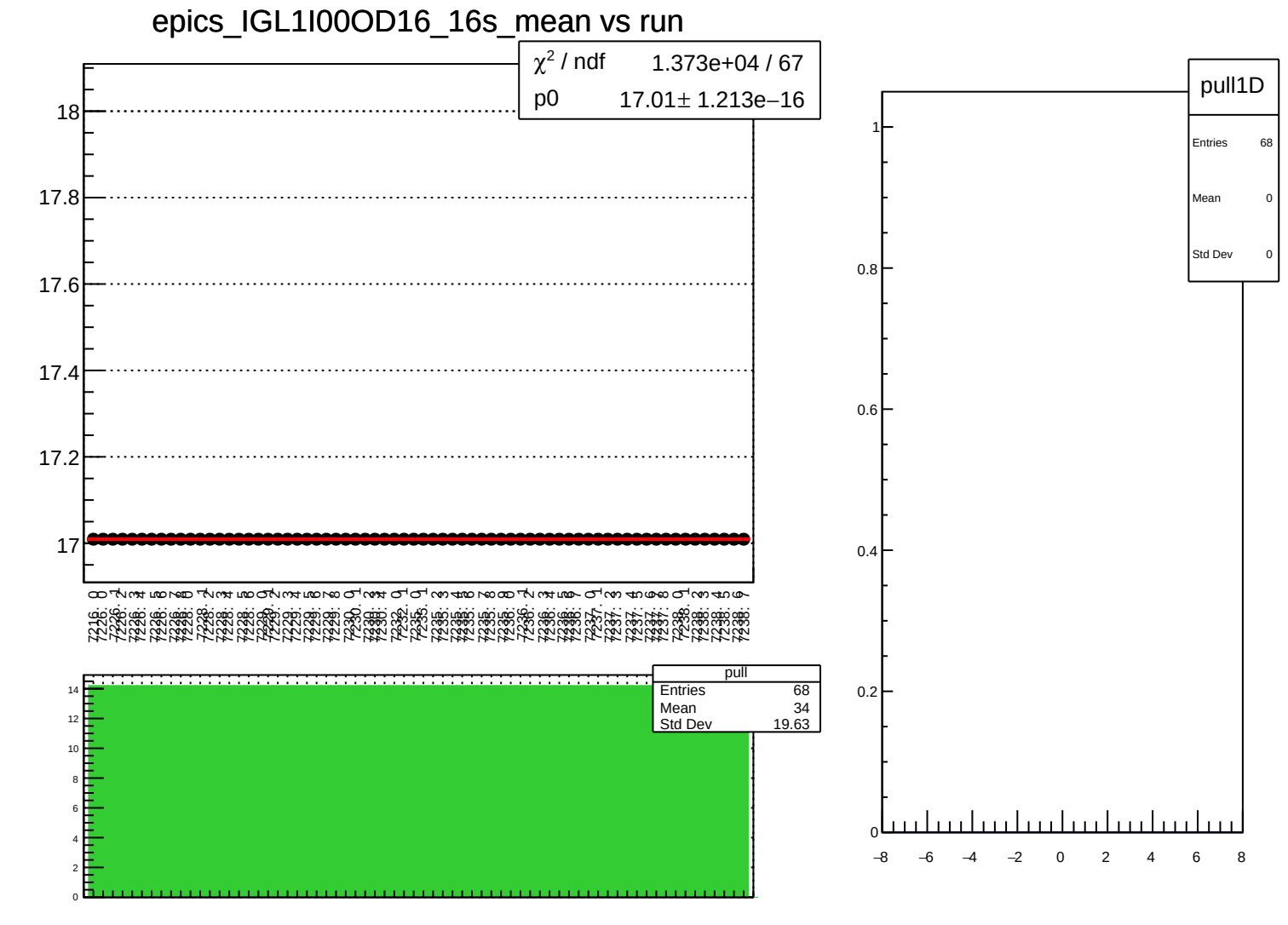

epics_VWienAngles_mean vs run
χ² / ndf 9.564e+05 / 73
p0 −90.6 ± 1.162e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 74
Mean 37
Std Dev 21.36
0
−20
−40
−60
−80
−100
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

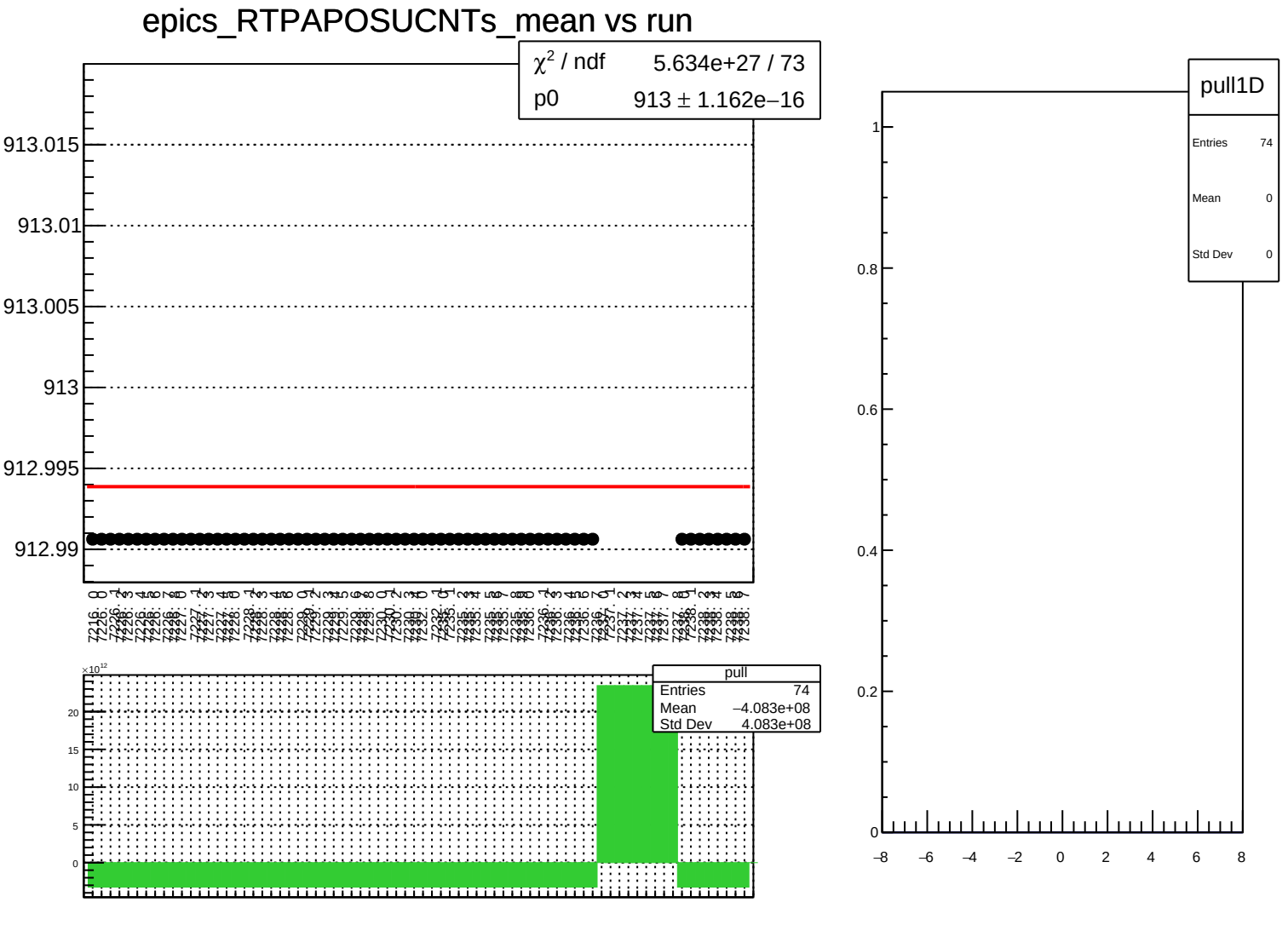

epics_HWienAngles_mean vs run
χ² / ndf 3.026e+05 / 73
p0 −29.64 ± 1.162e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 74
Mean 37
Std Dev 21.36
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

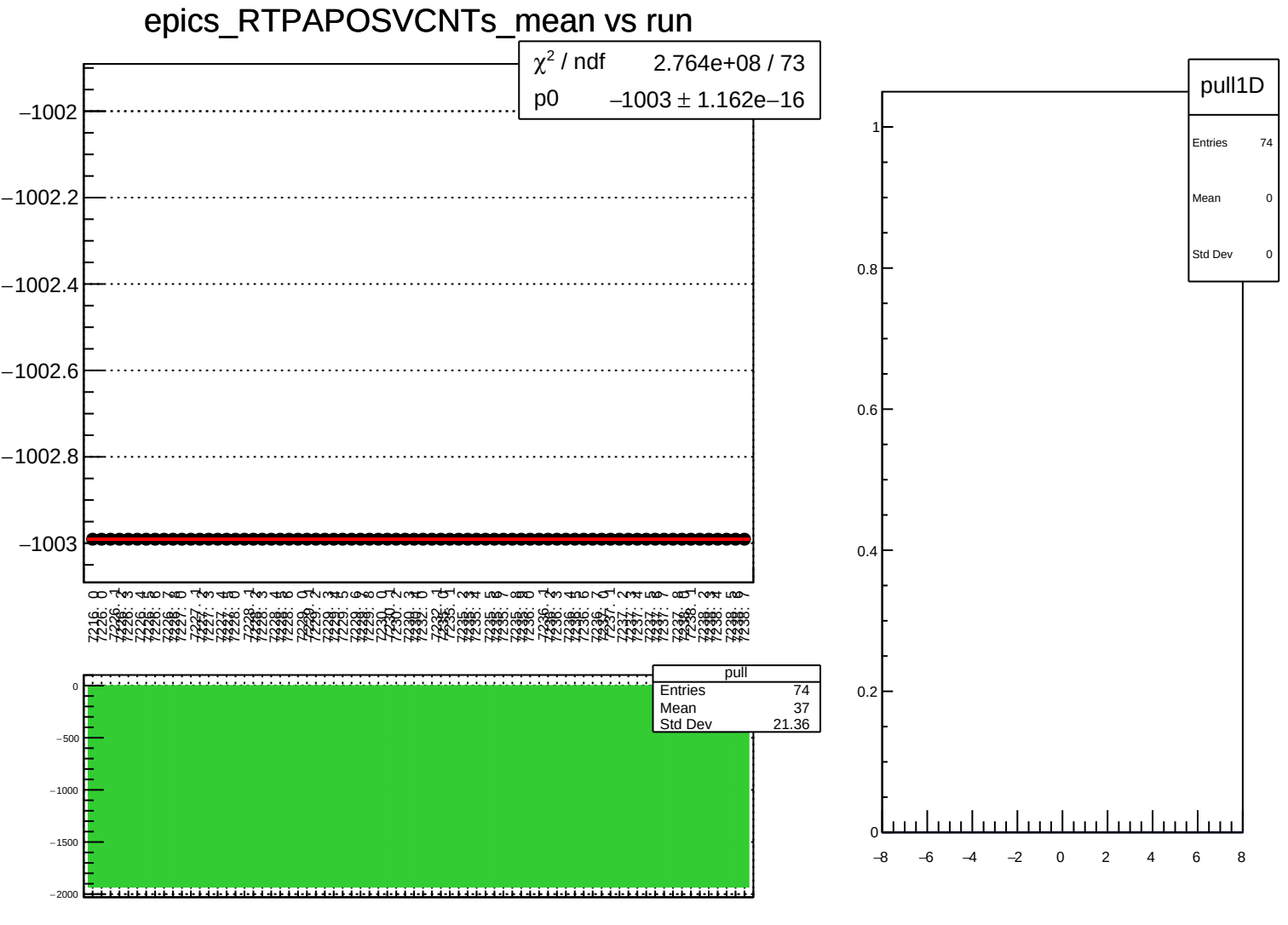

epics_psub_pl_poss_mean vs run
χ² / ndf 2.448e+08 / 73
p0 1468 ± 1.162e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 74
Mean 37
Std Dev 21.36
1800
1600
1400
1200
1000
800
600
400
200
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_Phi_FGs_mean vs run
χ² / ndf 5.38e+05 / 73
p0 88.02 ± 1.162e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 74
Mean 37
Std Dev 21.36
80
70
60
50
40
30
20
10
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 7384 / 64
p0 16.01± 1.24e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 65
Mean 32.5
Std Dev 18.76
0
−2
−4
−6
−8
−10
pull1D
Entries 65
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 1.373e+04 / 67
p0 17.01± 1.213e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 68
Mean 34
Std Dev 19.63
14
12
10
8
6
4
2
0
pull1D
Entries 68
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 5.634e+27 / 73
p0 913 ± 1.162e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 74
Mean −4.083e+08
Std Dev 4.083e+08
pull1D
Entries 74
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 2.764e+08 / 73
p0 −1003 ± 1.162e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 74
Mean 37
Std Dev 21.36
0
−500
−1000
−1500
−2000
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8