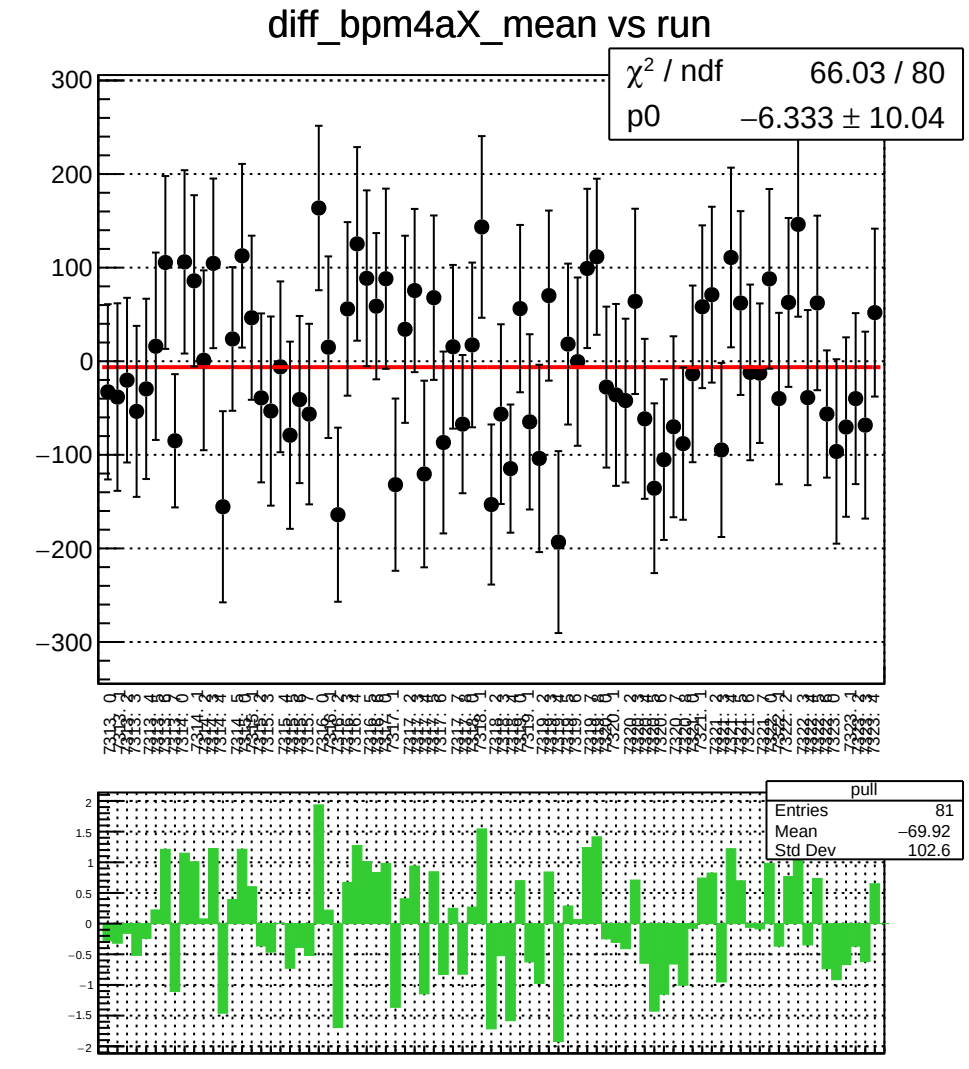
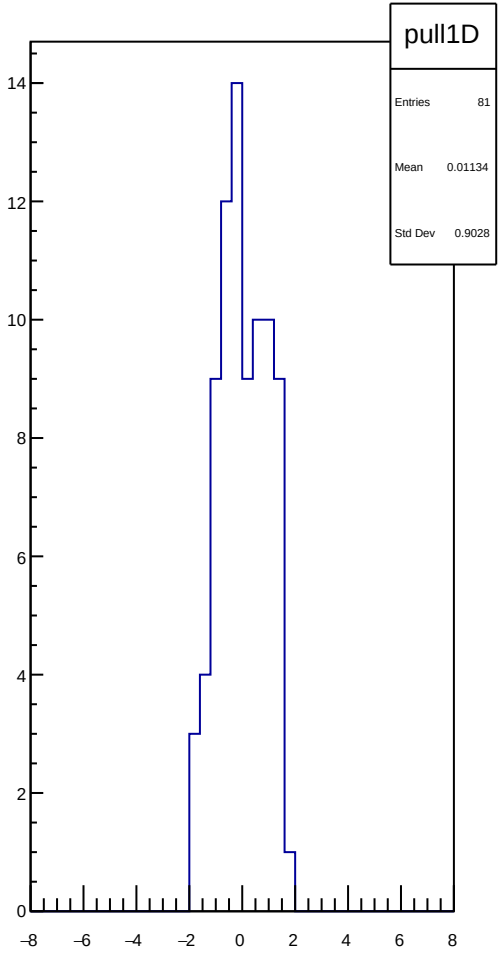
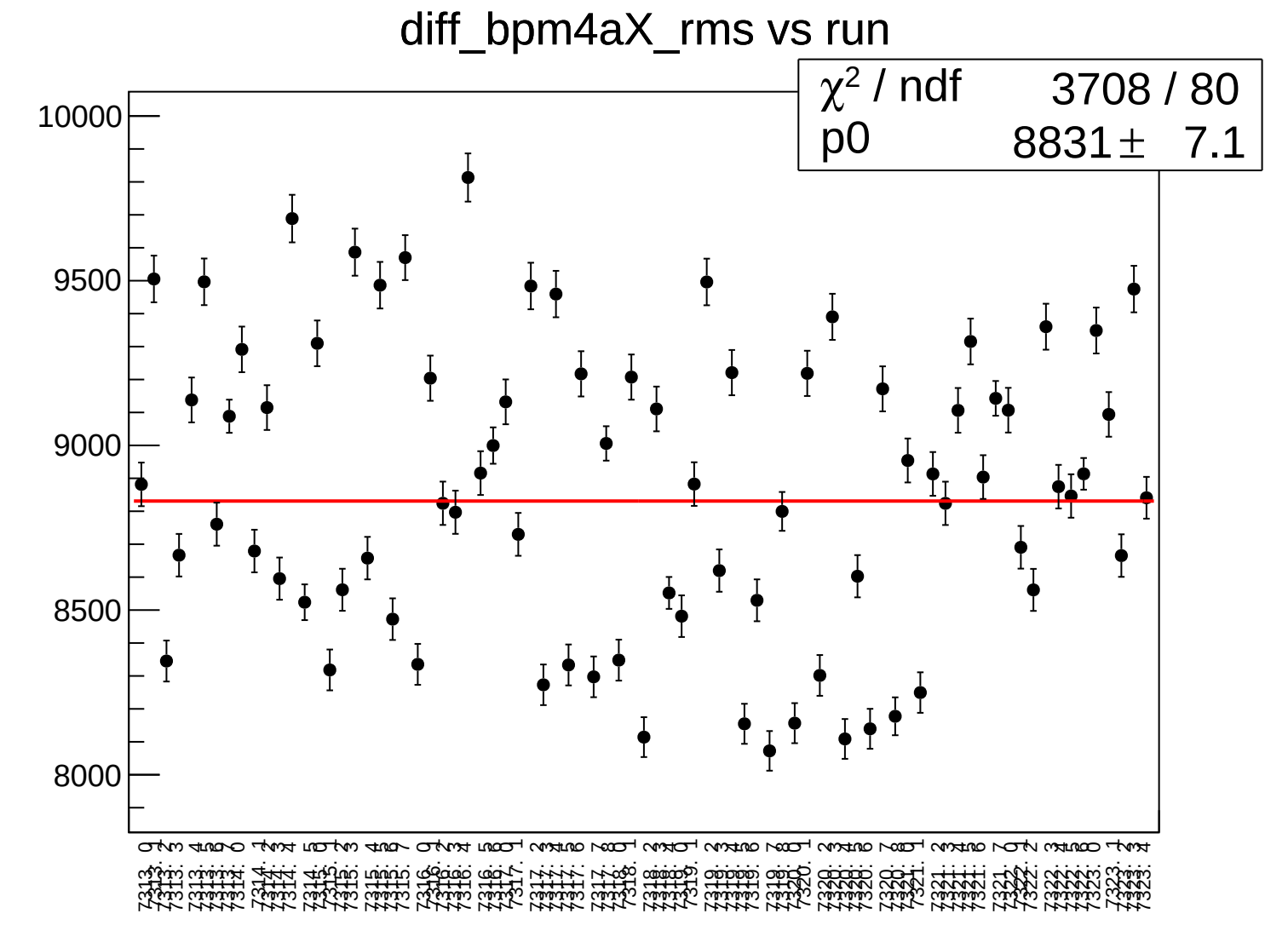
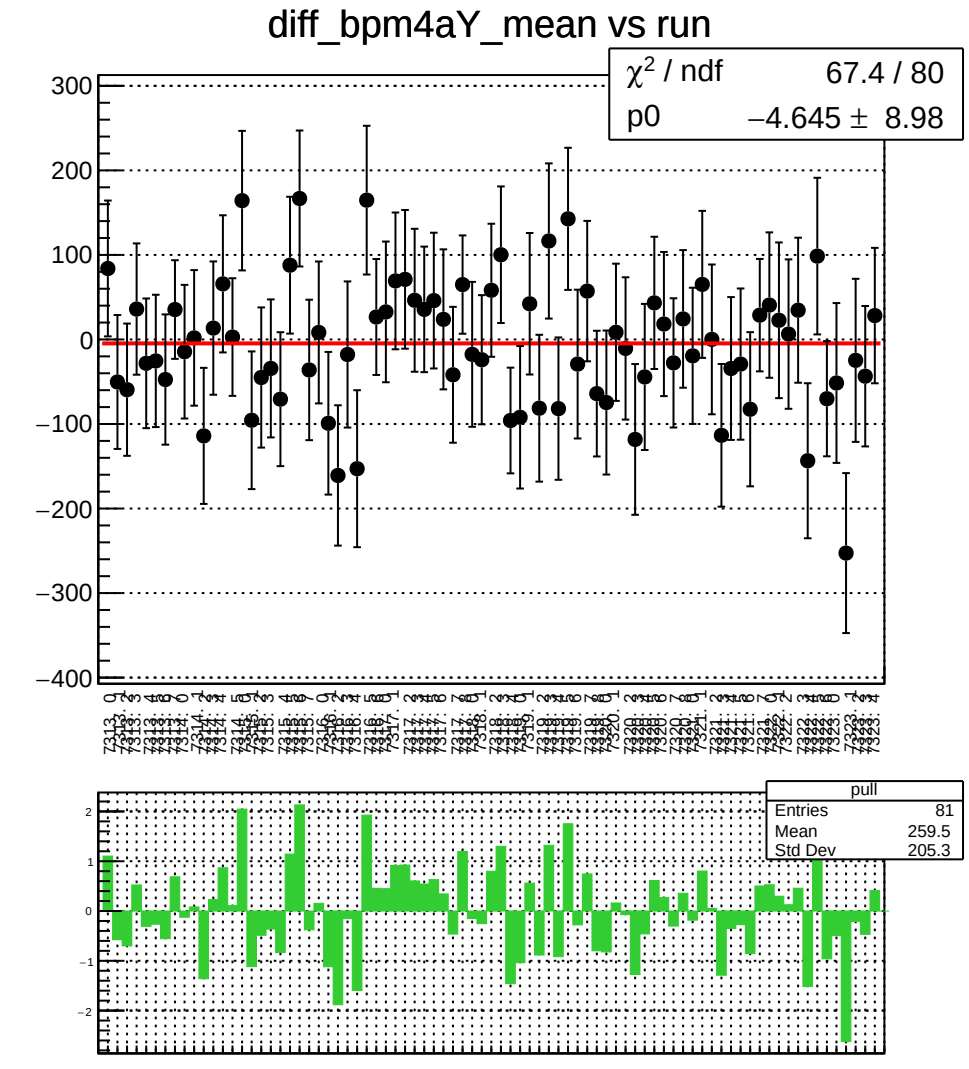
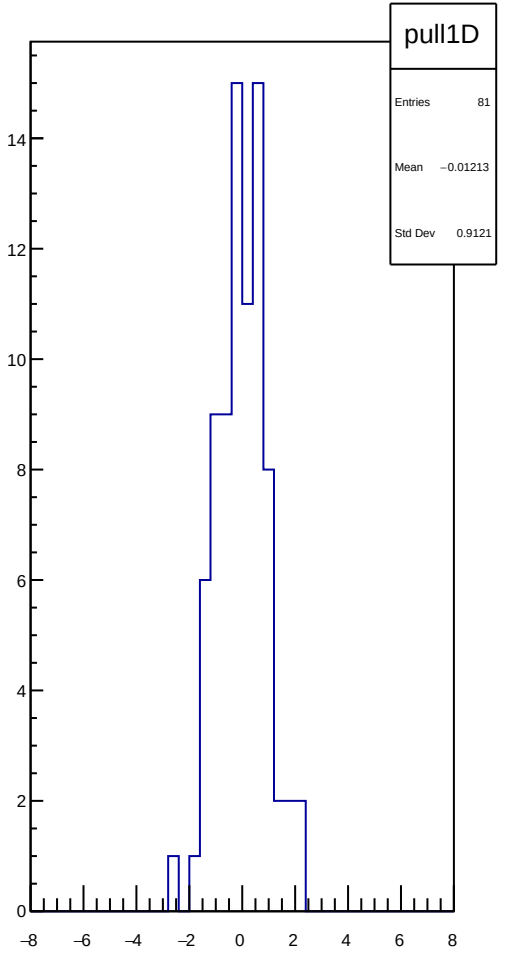
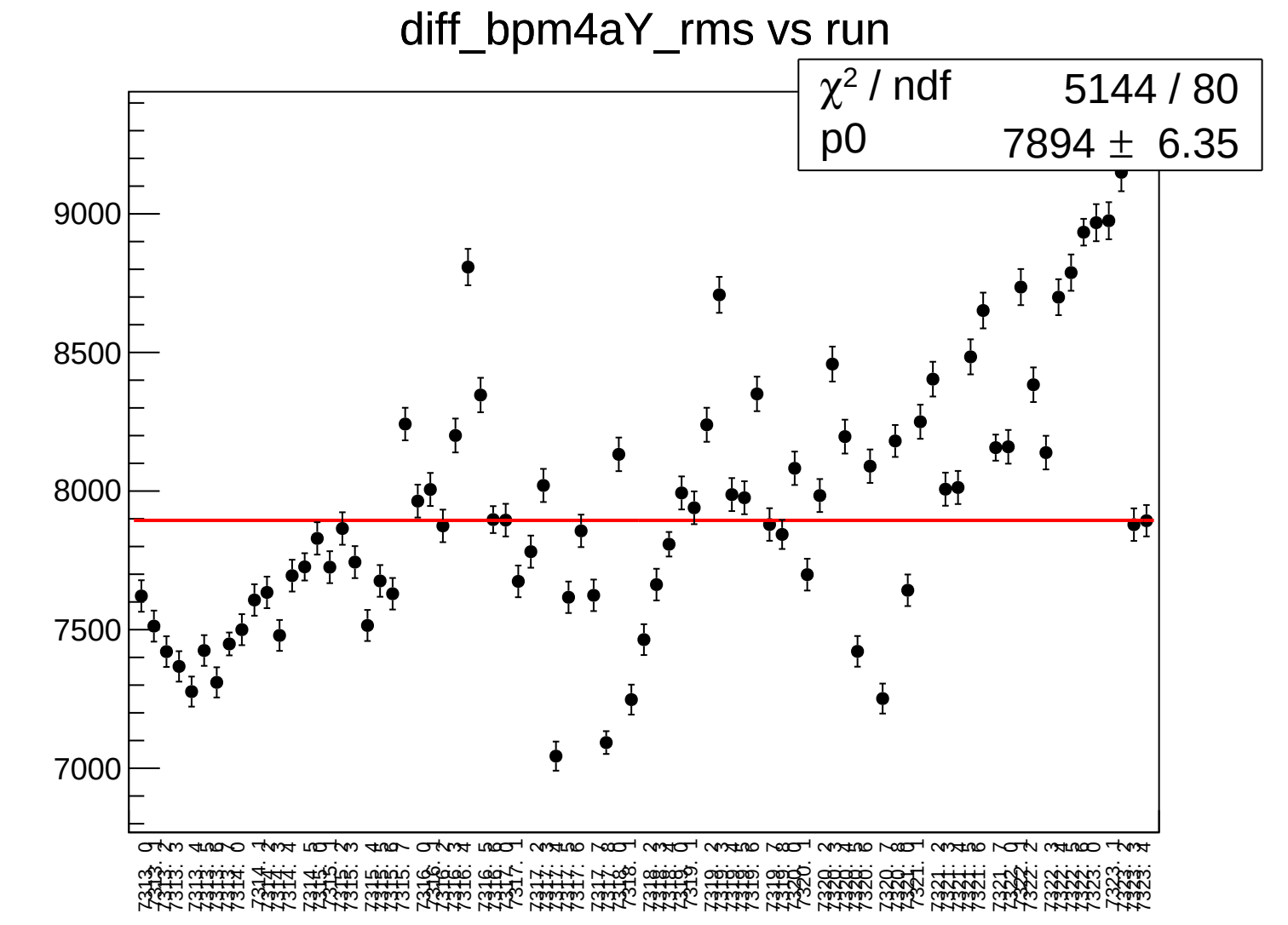

diff_bpm4aX_mean vs run
χ² / ndf 66.03 / 80
p0 −6.333 ± 10.04
pull
Entries 81
Mean −69.92
Std Dev 102.6

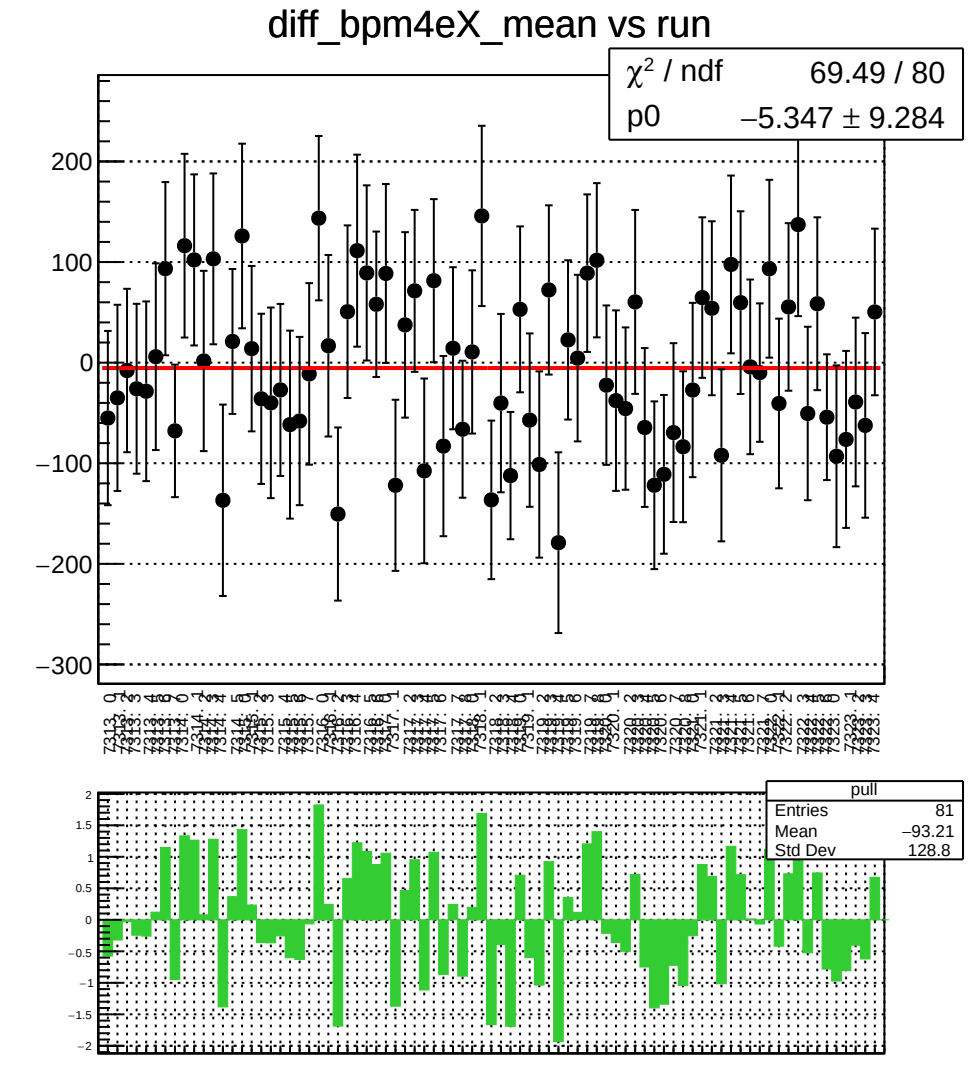

pull1D
Entries 81
Mean 0.01134
Std Dev 0.9028

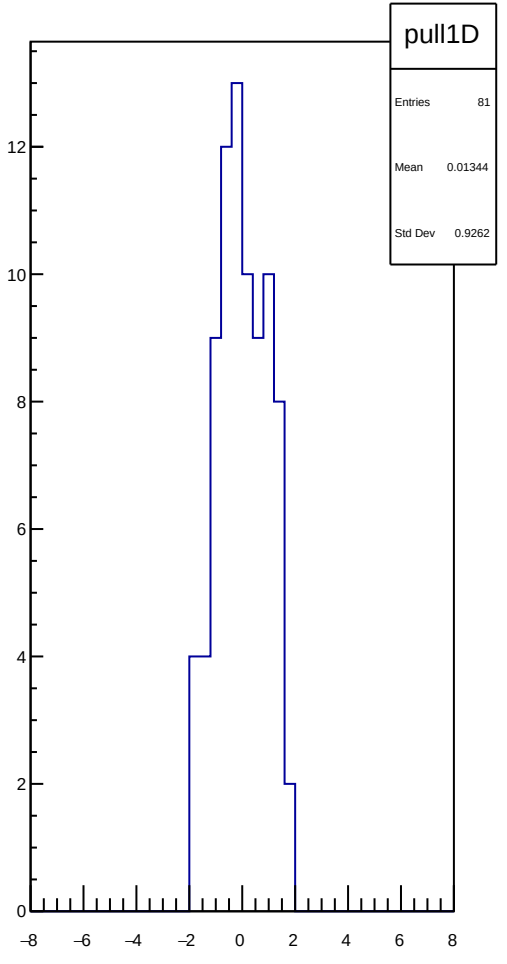

diff_bpm4aX_rms vs run
χ² / ndf 3708 / 80
p0 8831 ± 7.1
10000
9500
9000
8500
8000

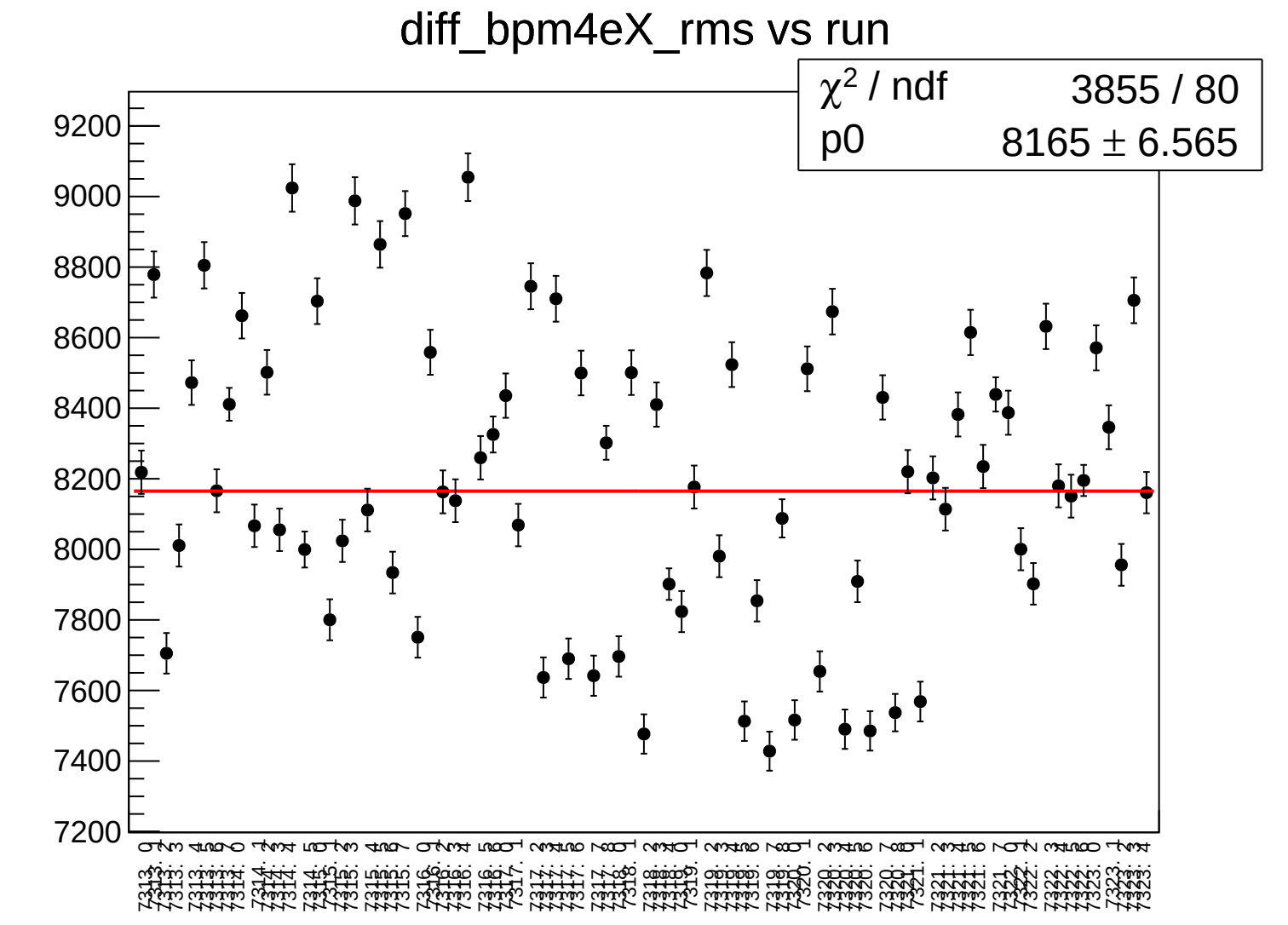

diff_bpm4aY_mean vs run
χ² / ndf 67.4 / 80
p0 −4.645 ± 8.98
pull
Entries 81
Mean 259.5
Std Dev 205.3

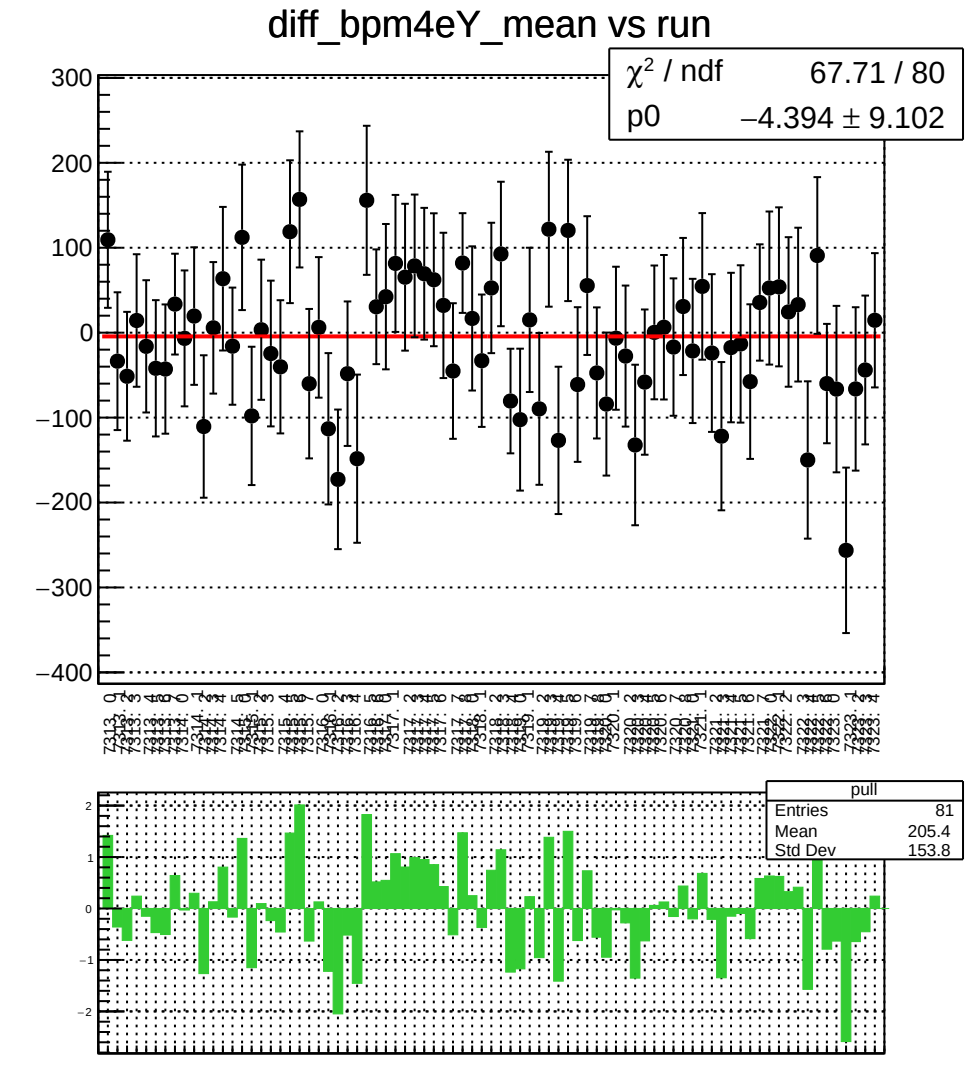

pull1D
Entries 81
Mean −0.01213
Std Dev 0.9121

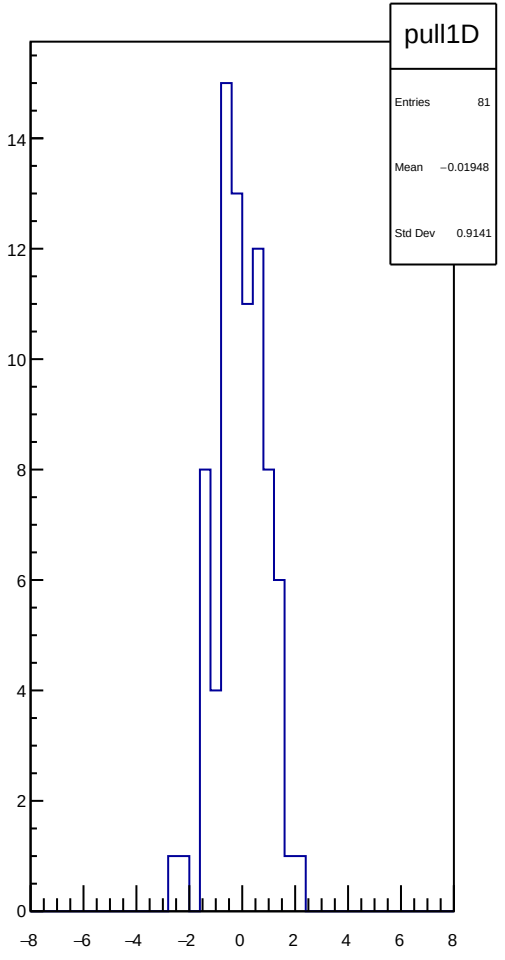

diff_bpm4aY_rms vs run
χ² / ndf 5144 / 80
p0 7894 ± 6.35
9000
8500
8000
7500
7000

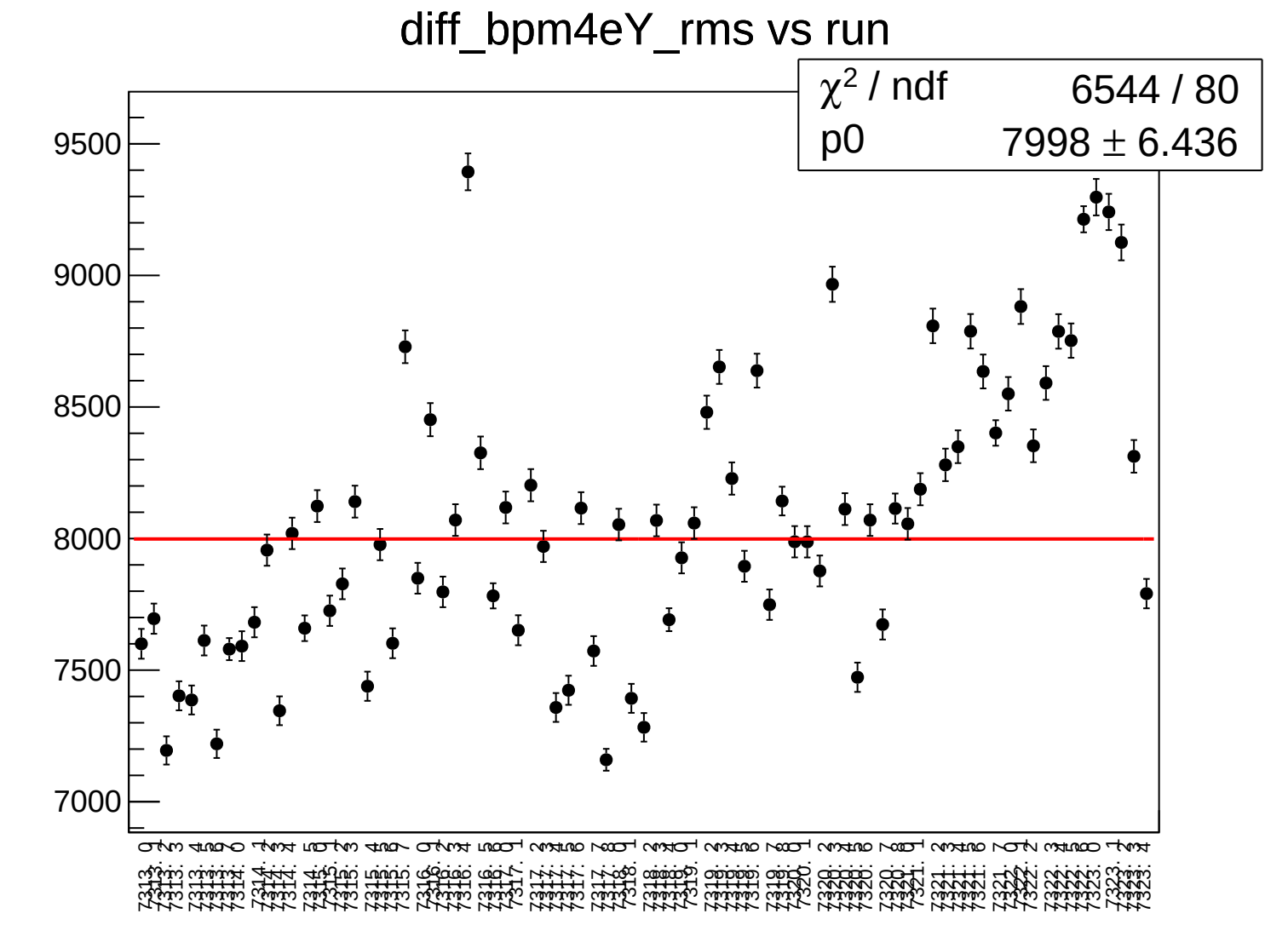

diff_bpm4eX_mean vs run
χ² / ndf 69.49 / 80
p0 −5.347 ± 9.284
pull
Entries 81
Mean −93.21
Std Dev 128.8

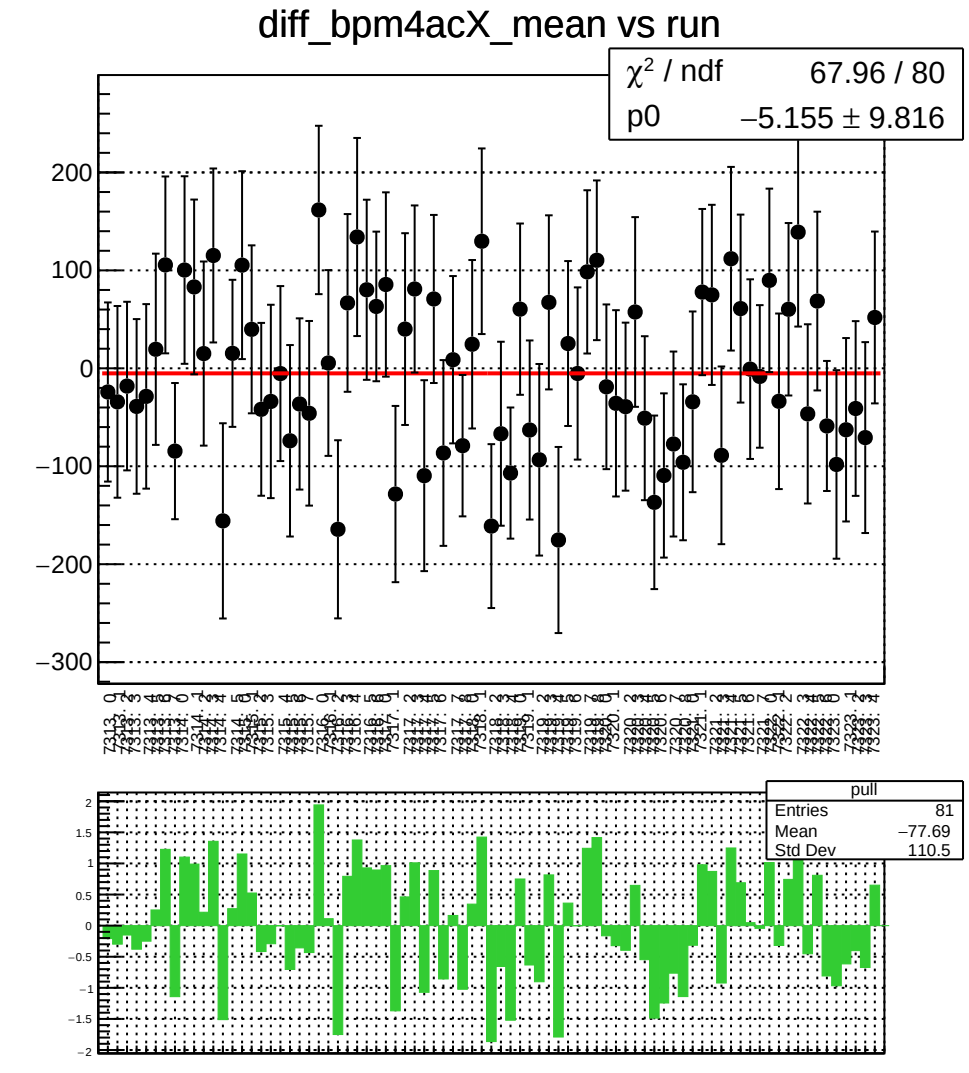

pull1D
Entries 81
Mean 0.01344
Std Dev 0.9262

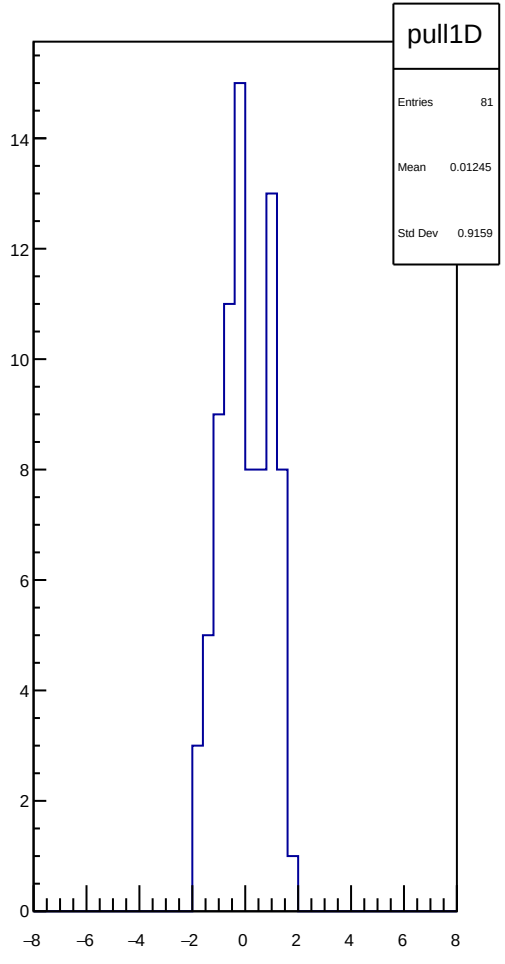

diff_bpm4eX_rms vs run
χ^2 / ndf 3855 / 80
p0 8165 ± 6.565
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

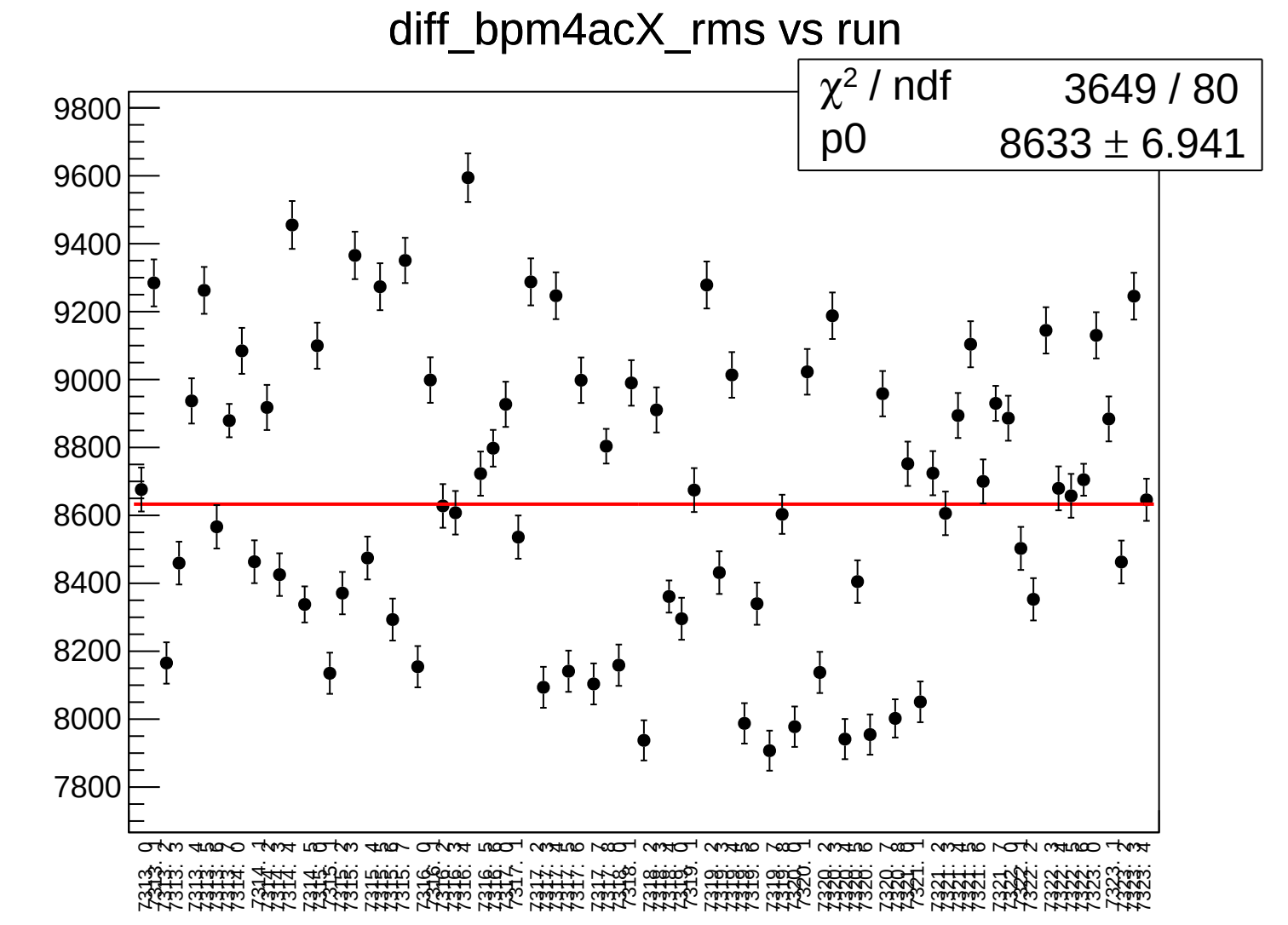

diff_bpm4eY_mean vs run
χ² / ndf 67.71 / 80
p0 −4.394 ± 9.102
pull
Entries 81
Mean 205.4
Std Dev 153.8

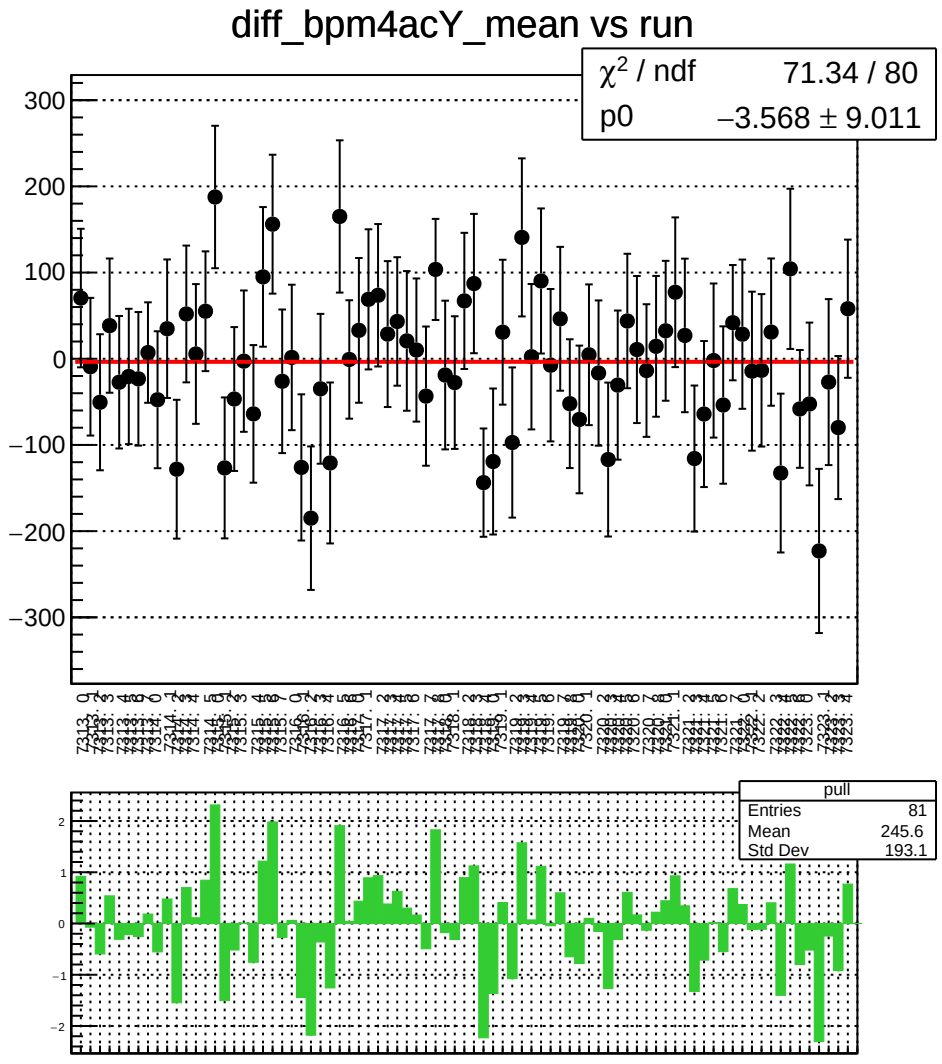

pull1D
Entries 81
Mean −0.01948
Std Dev 0.9141

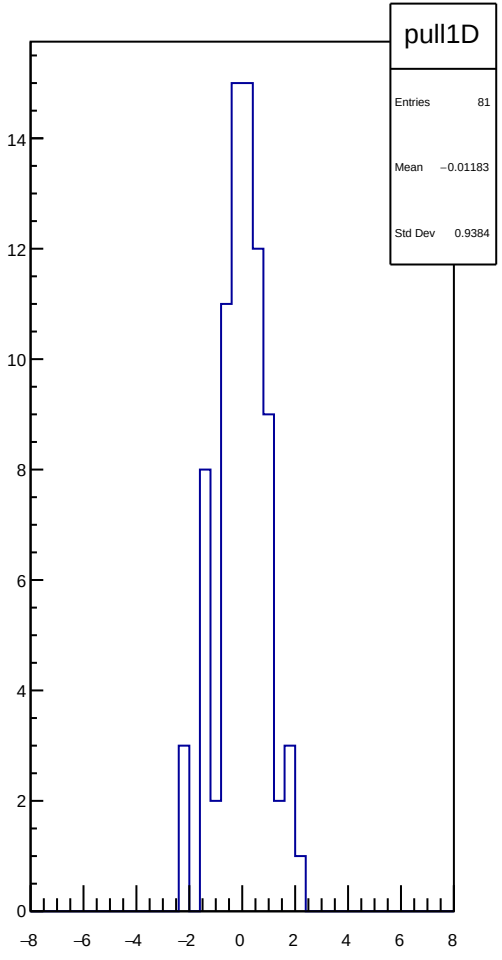

diff_bpm4eY_rms vs run
χ^2 / ndf 6544 / 80
p0 7998 ± 6.436
9500
9000
8500
8000
7500
7000

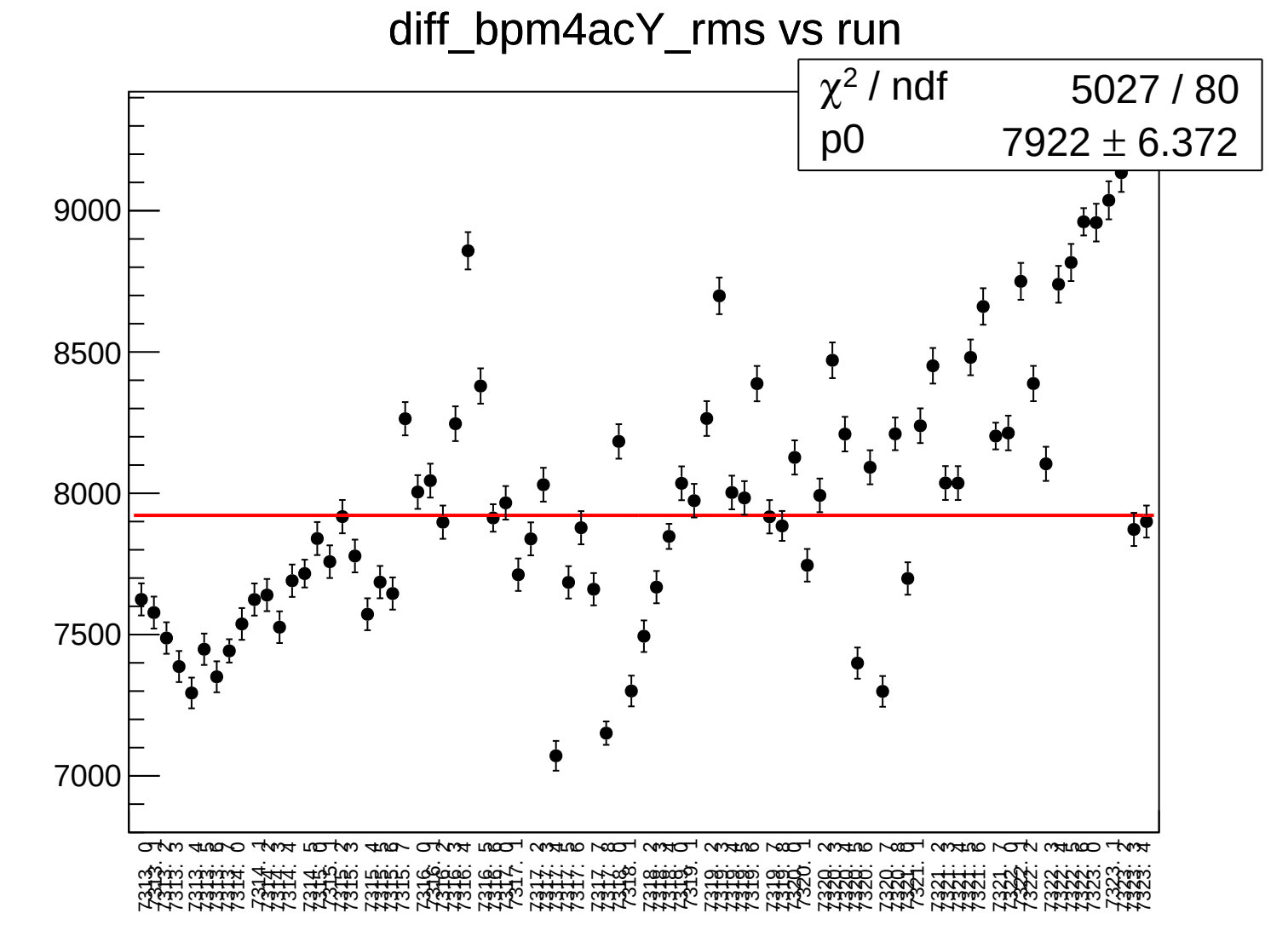

diff_bpm4acX_mean vs run
χ² / ndf 67.96 / 80
p0 −5.155 ± 9.816
pull
Entries 81
Mean −77.69
Std Dev 110.5

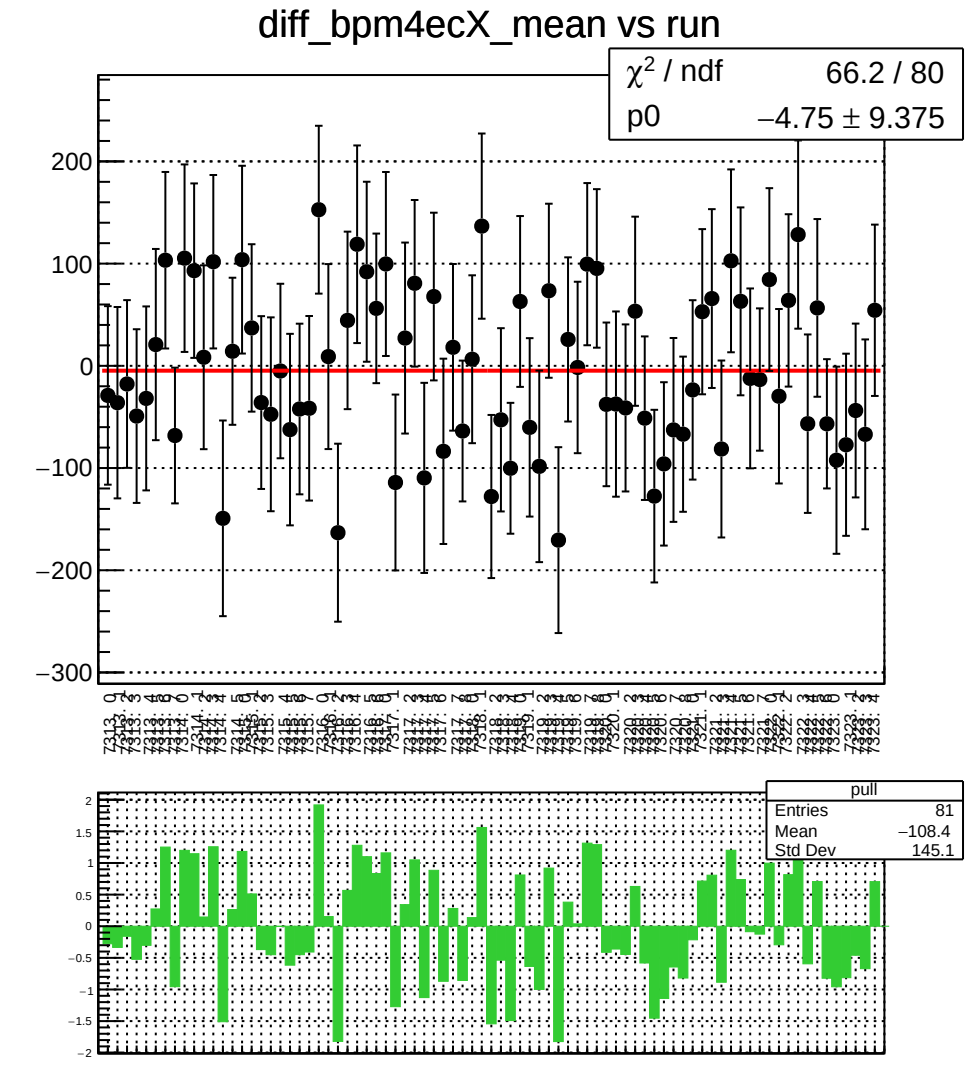

pull1D
Entries 81
Mean 0.01245
Std Dev 0.9159

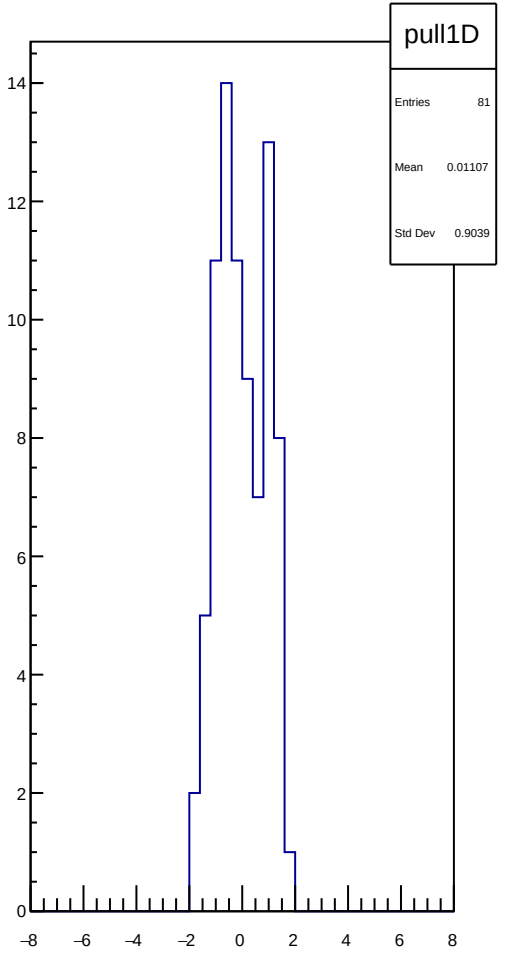

diff_bpm4acX_rms vs run
χ² / ndf 3649 / 80
p0 8633 ± 6.941
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

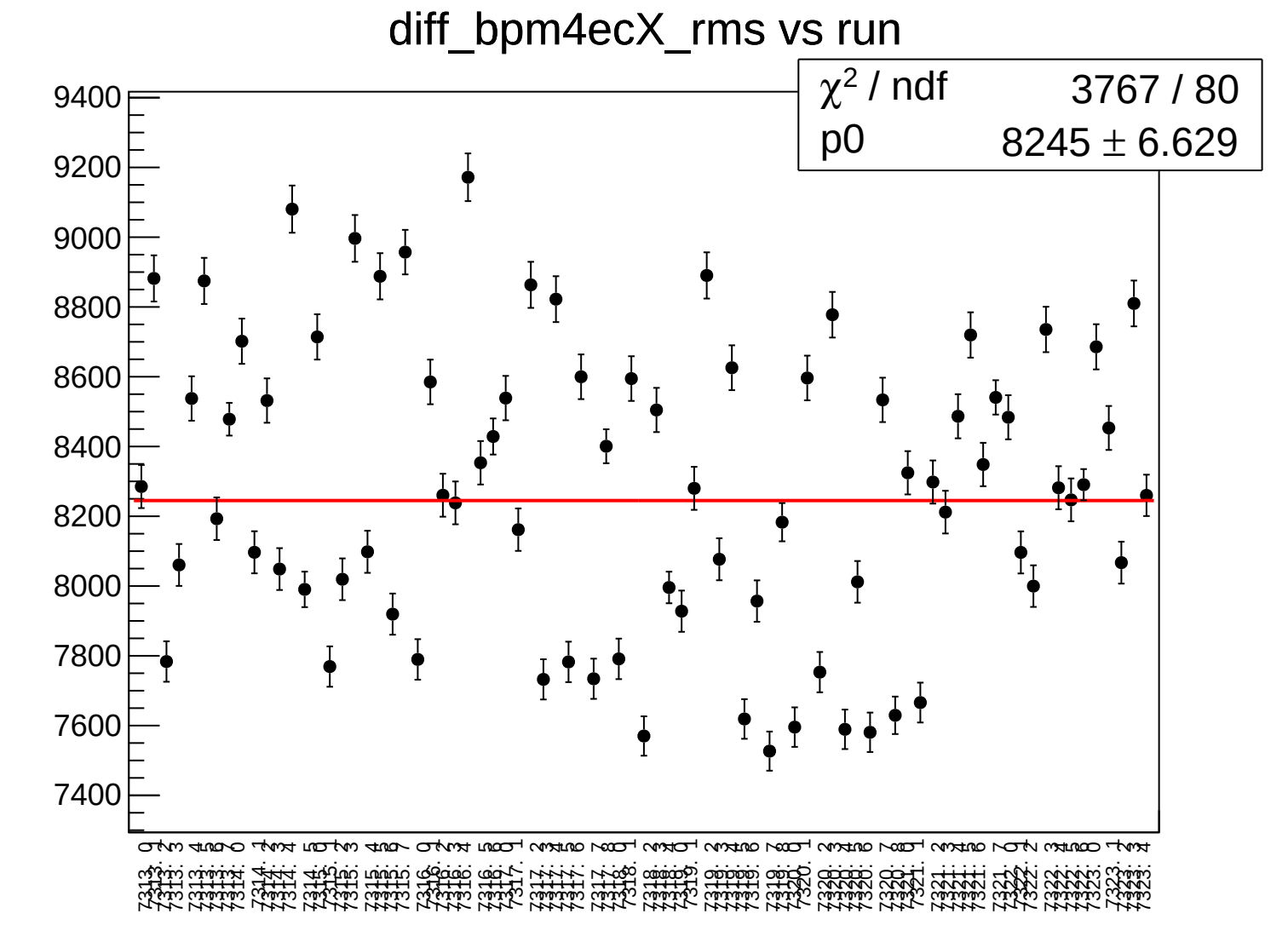

diff_bpm4acY_mean vs run
χ² / ndf 71.34 / 80
p0 −3.568 ± 9.011
pull
Entries 81
Mean 245.6
Std Dev 193.1

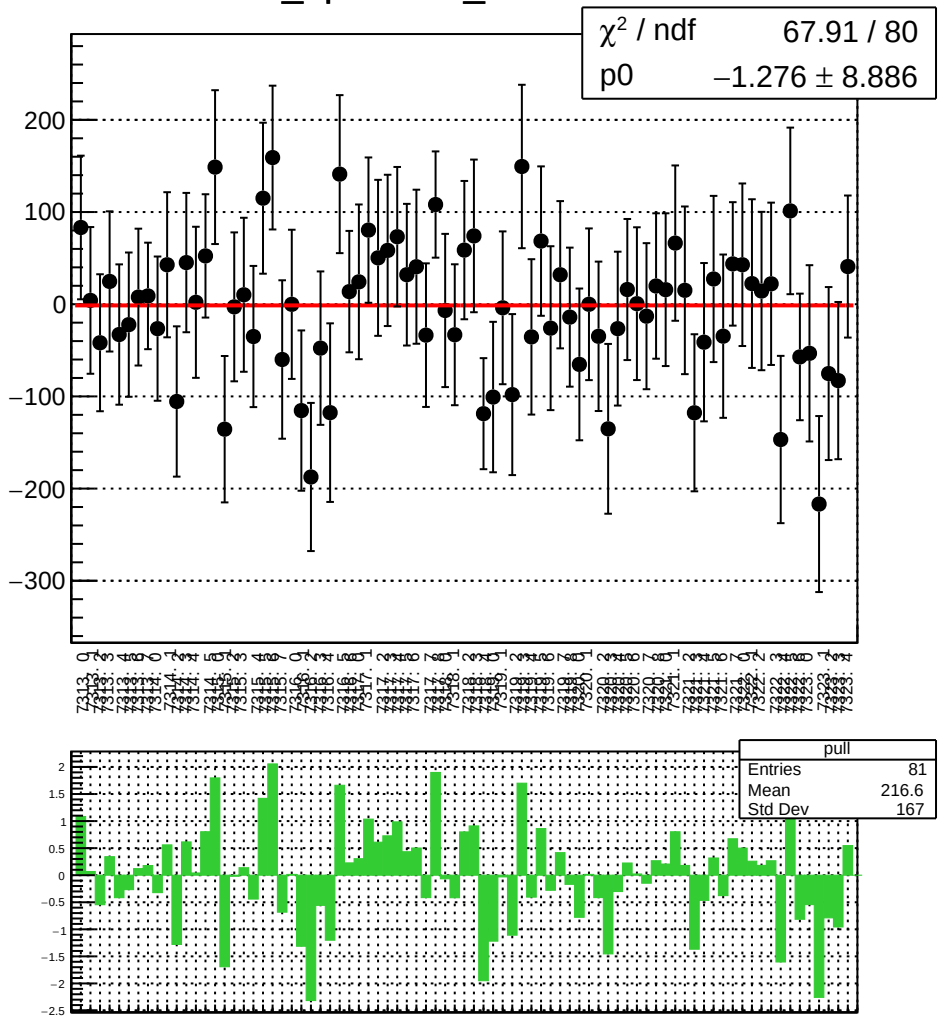

pull1D
Entries 81
Mean −0.01183
Std Dev 0.9384

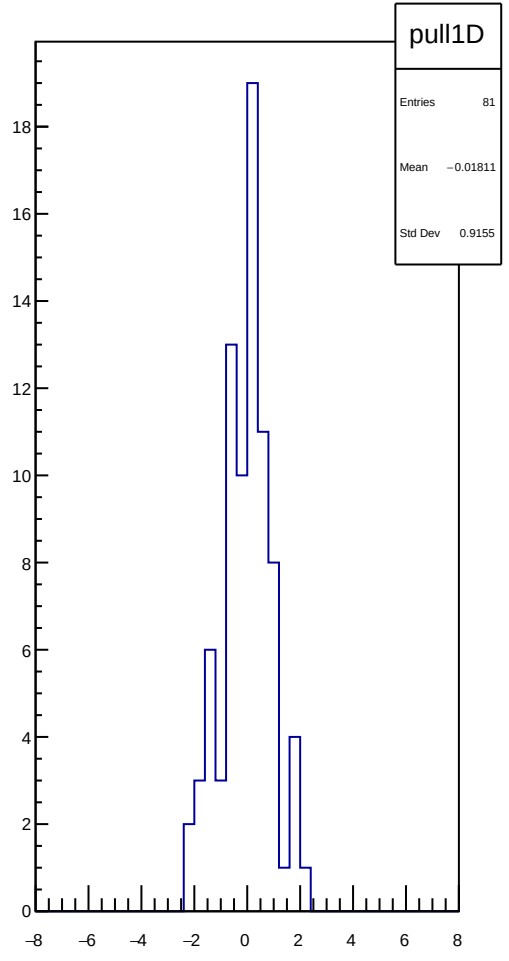

diff_bpm4acY_rms vs run
χ² / ndf 5027 / 80
p0 7922 ± 6.372
9000
8500
8000
7500
7000

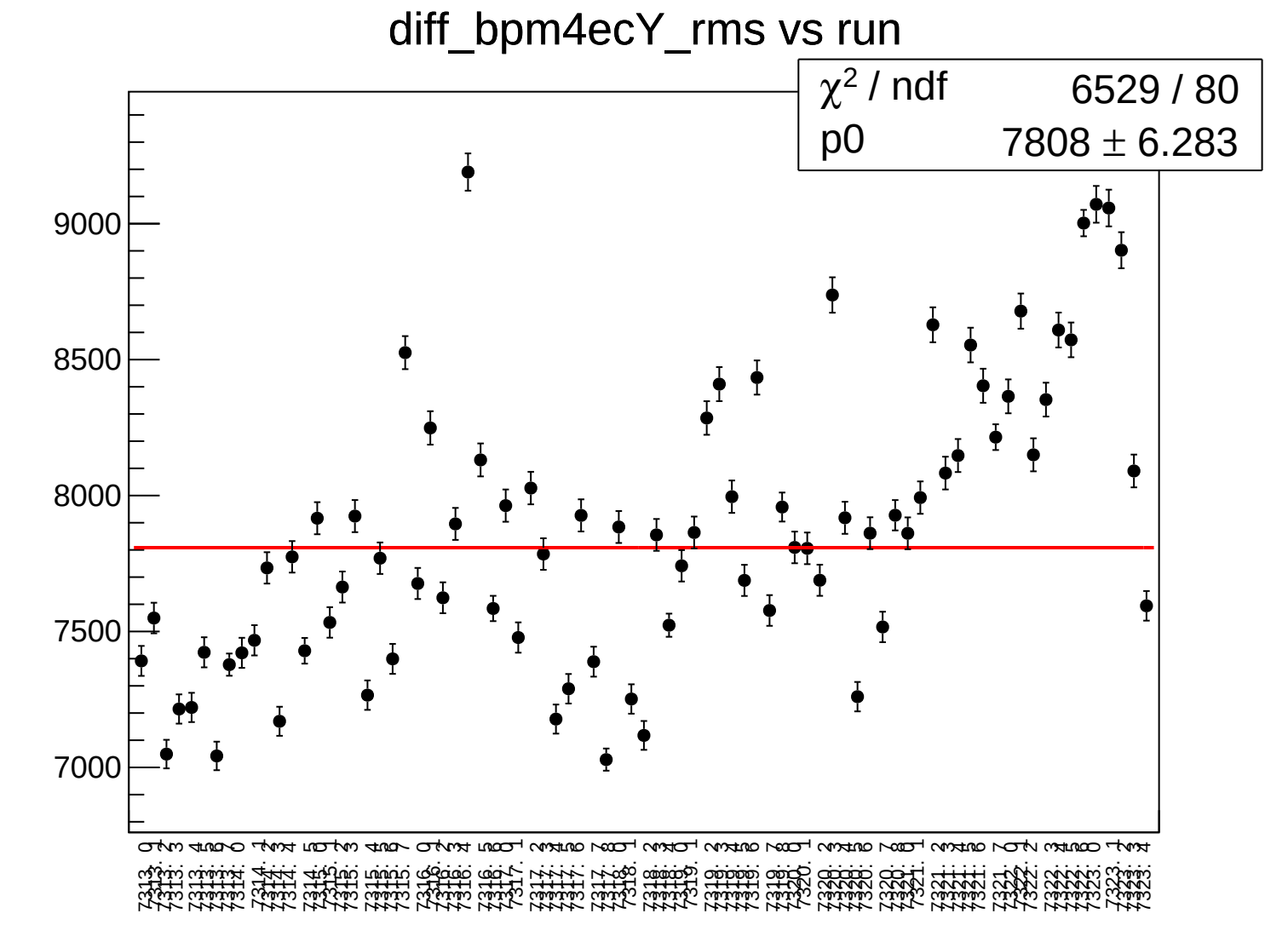

diff_bpm4ecX_mean vs run
χ² / ndf 66.2 / 80
p0 −4.75 ± 9.375
pull
Entries 81
Mean −108.4
Std Dev 145.1

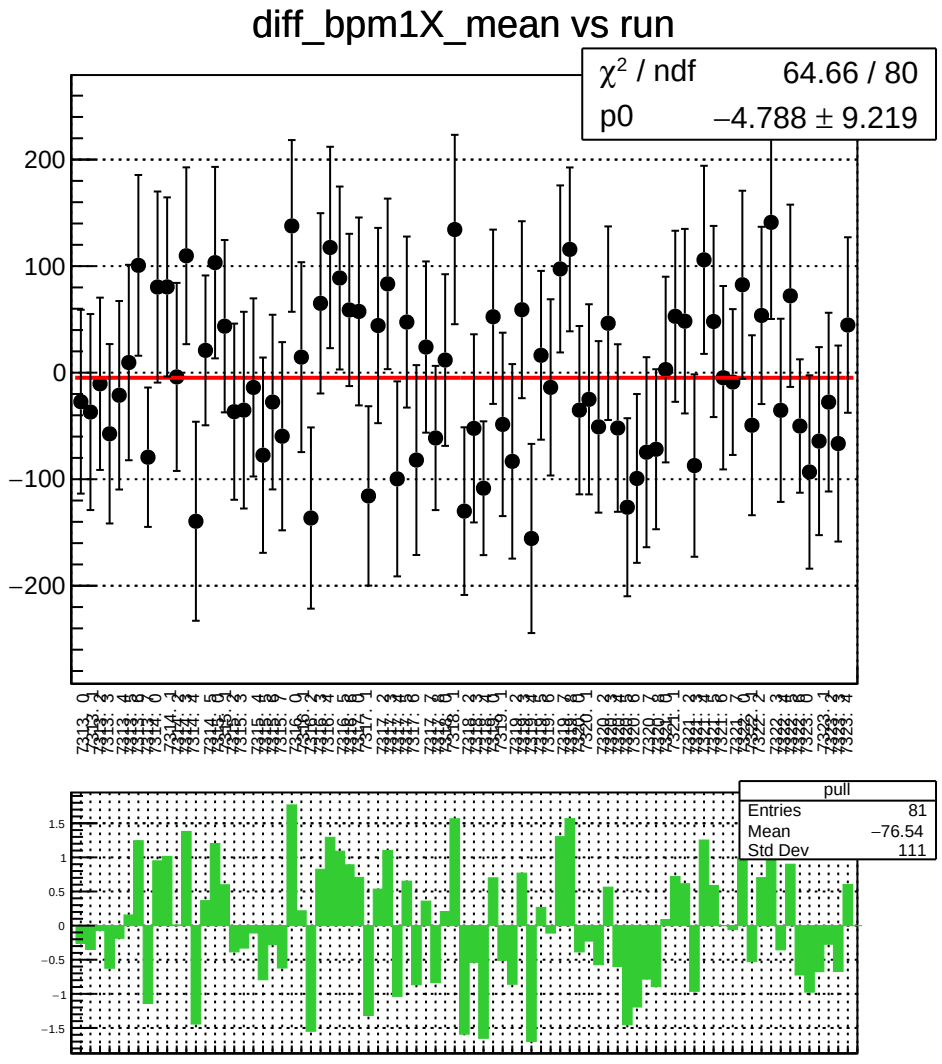

pull1D
Entries 81
Mean 0.01107
Std Dev 0.9039

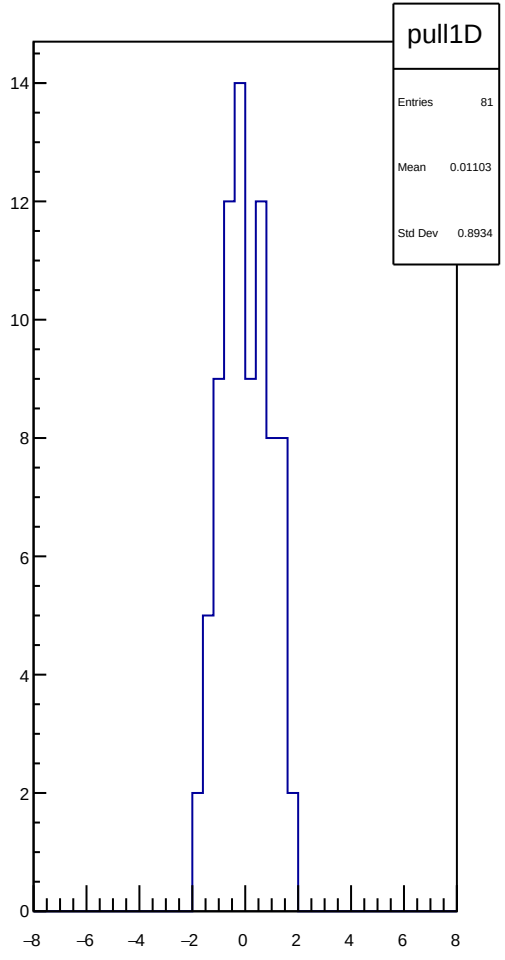

diff_bpm4ecX_rms vs run
χ² / ndf 3767 / 80
p0 8245 ± 6.629
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

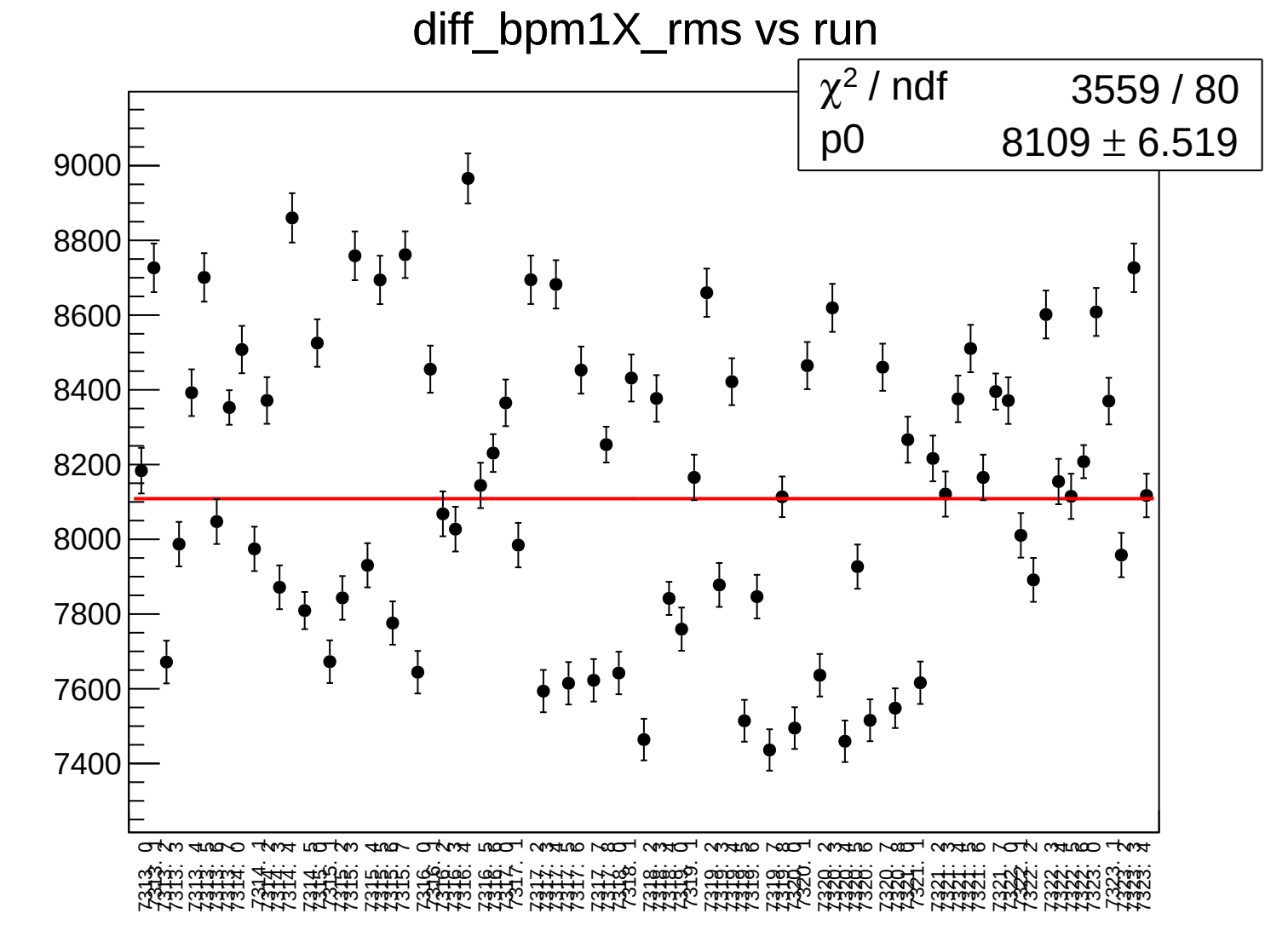

diff_bpm4ecY_mean vs run
χ^2 / ndf 67.91 / 80
p0 −1.276 ± 8.886
200
100
0
−100
−200
−300
pull
Entries 81
Mean 216.6
Std Dev 167
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

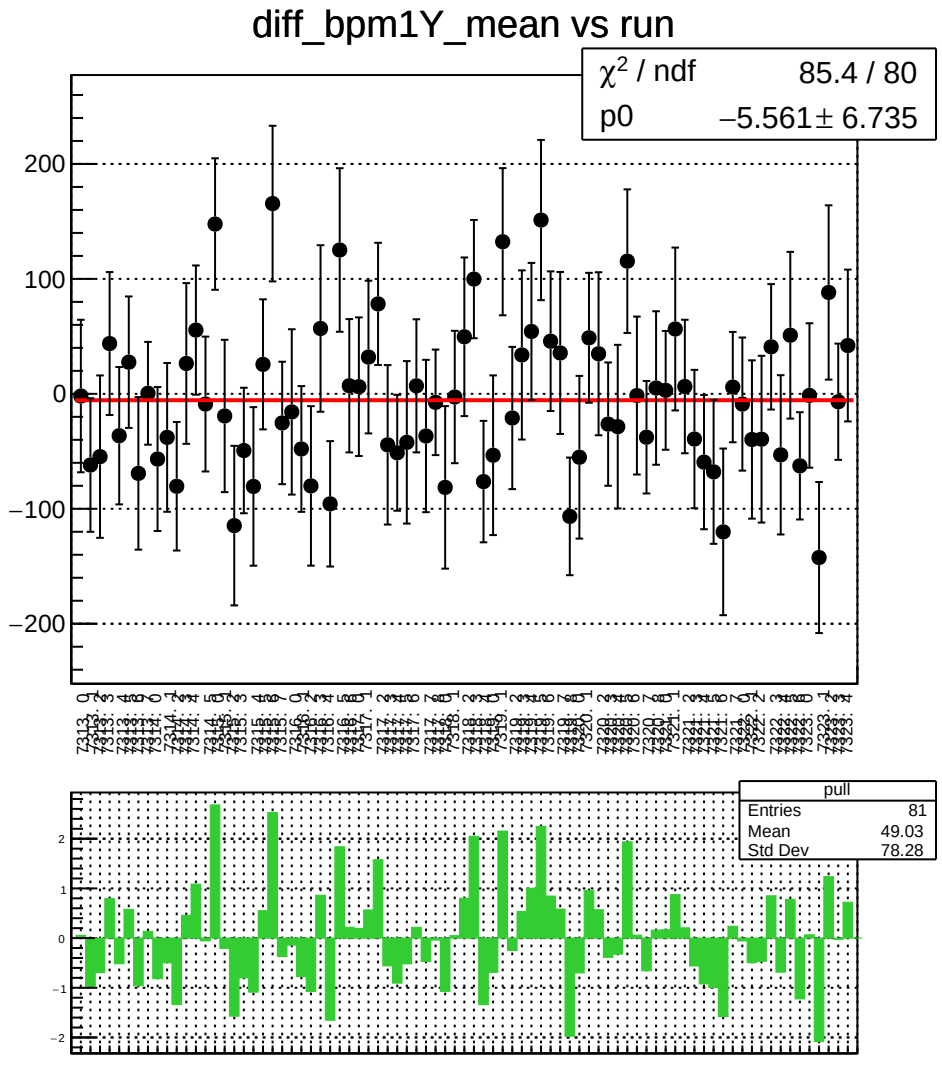

pull1D
Entries 81
Mean −0.01811
Std Dev 0.9155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

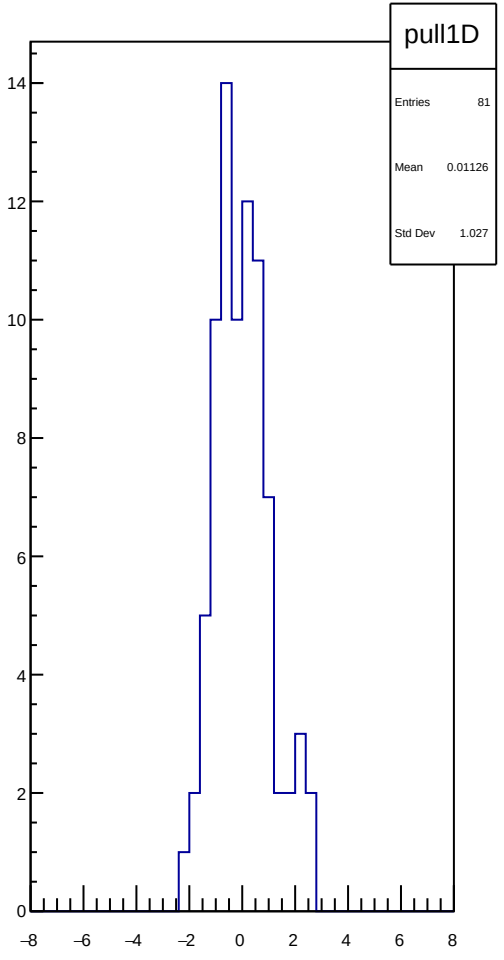

diff_bpm4ecY_rms vs run
χ² / ndf 6529 / 80
p0 7808 ± 6.283
9000
8500
8000
7500
7000

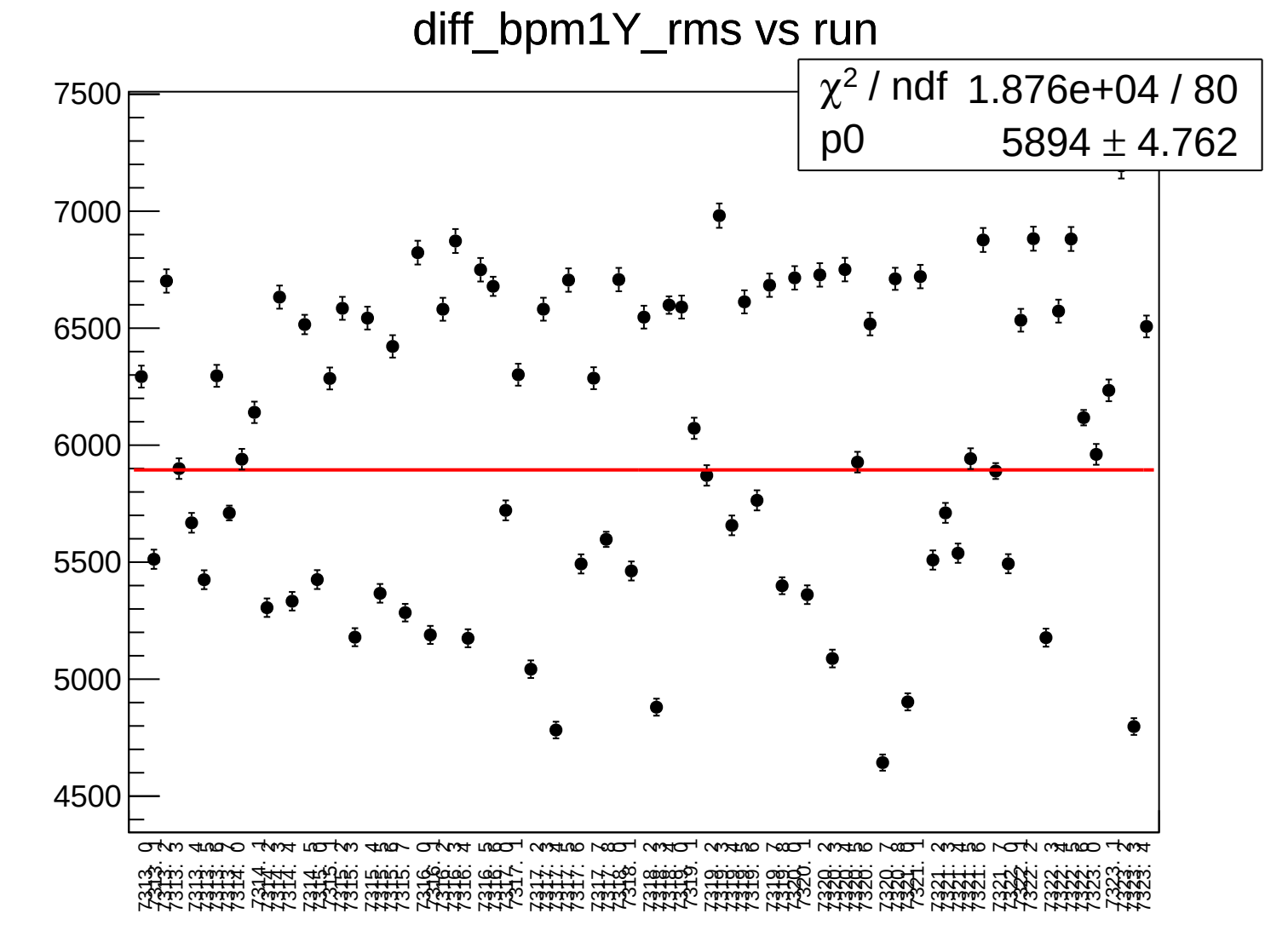

diff_bpm1X_mean vs run
χ² / ndf 64.66 / 80
p0 −4.788 ± 9.219
200
100
0
−100
−200
pull
Entries 81
Mean −76.54
Std Dev 111
1.5
1
0.5
0
−0.5
−1
−1.5

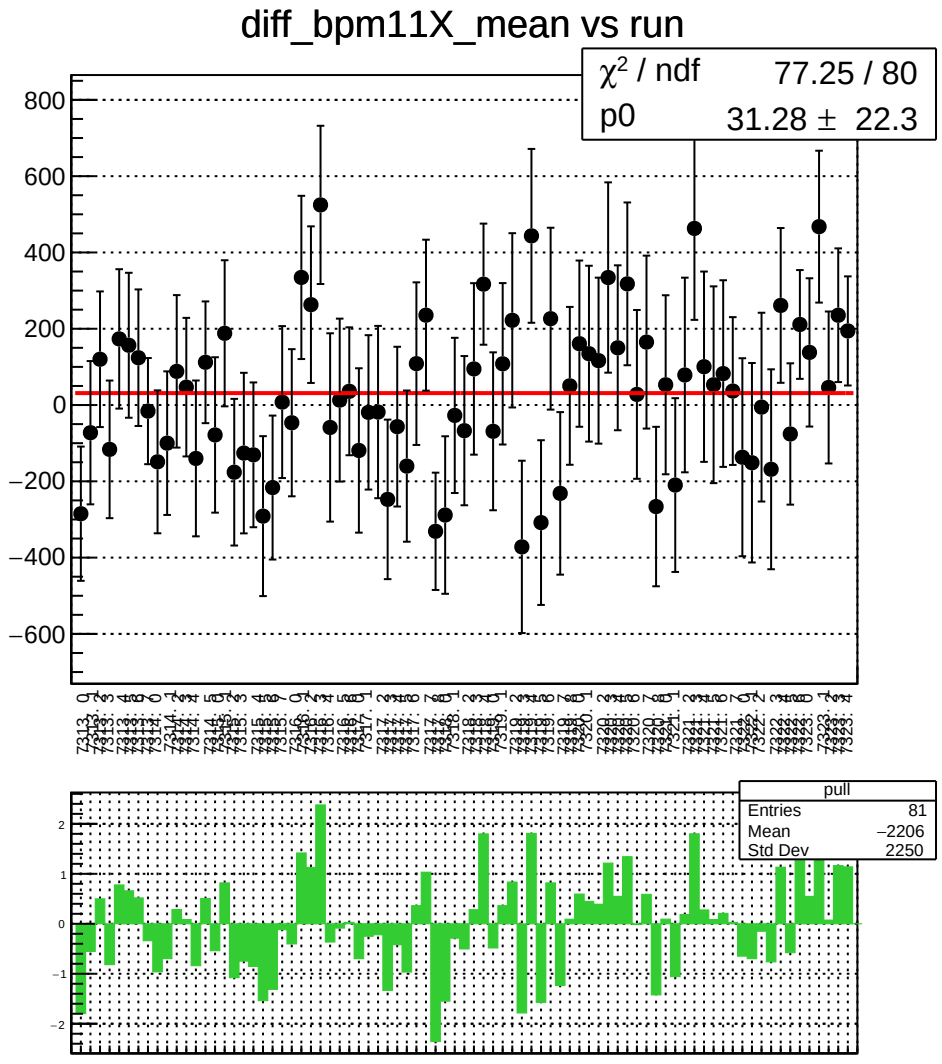

pull1D
Entries 81
Mean 0.01103
Std Dev 0.8934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

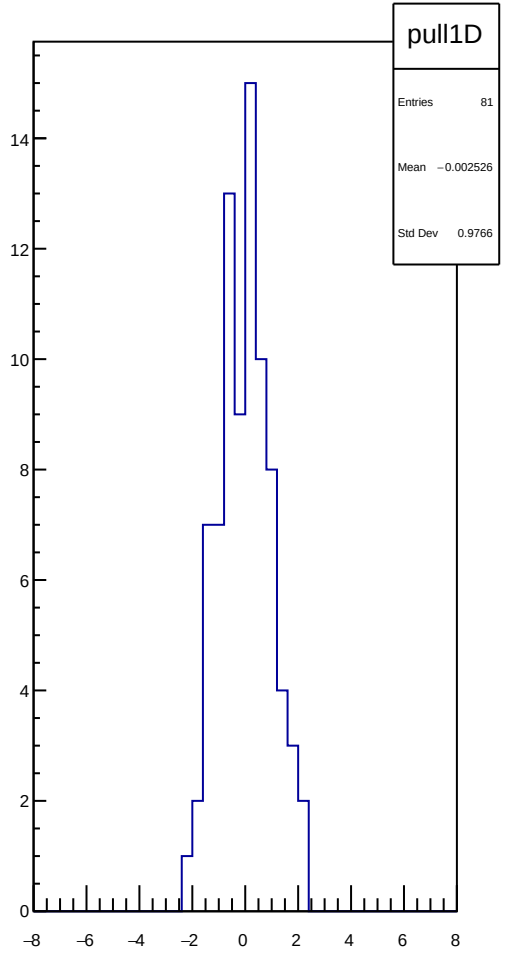

diff_bpm1X_rms vs run
χ^2 / ndf 3559 / 80
p0 8109 ± 6.519
9000
8800
8600
8400
8200
8000
7800
7600
7400

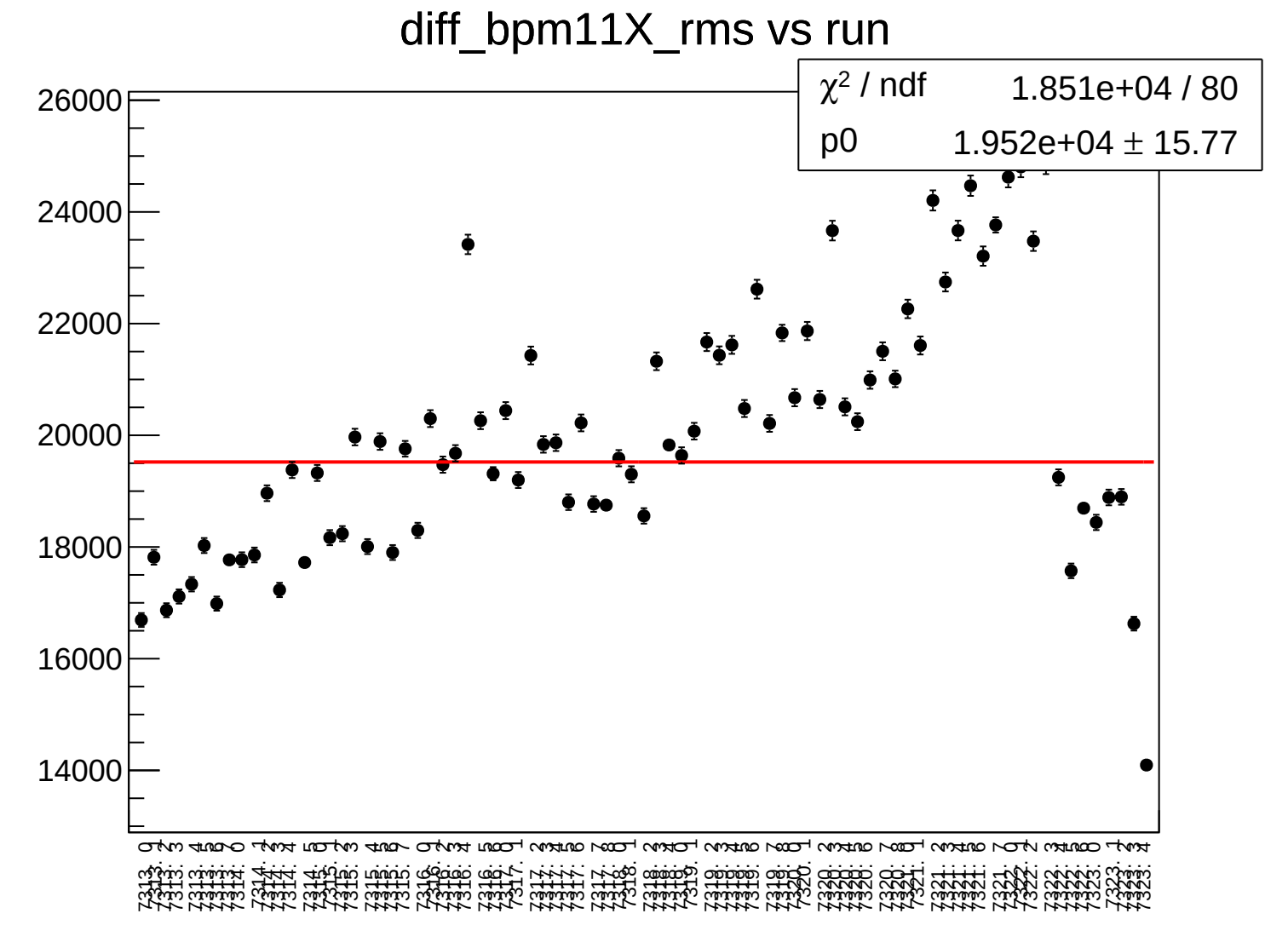

diff_bpm1Y_mean vs run
χ² / ndf 85.4 / 80
p0 −5.561 ± 6.735
200
100
0
−100
−200
pull
Entries 81
Mean 49.03
Std Dev 78.28
2
1
0
−1
−2

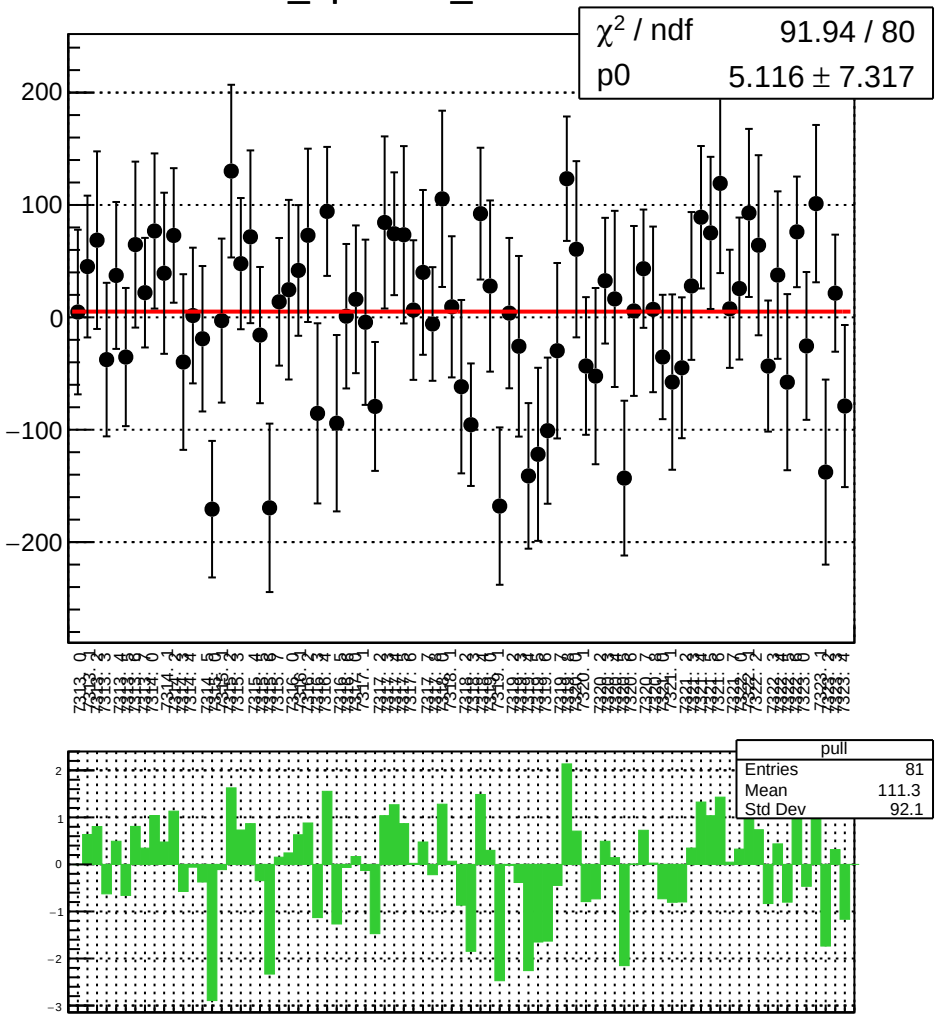

pull1D
Entries 81
Mean 0.01126
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

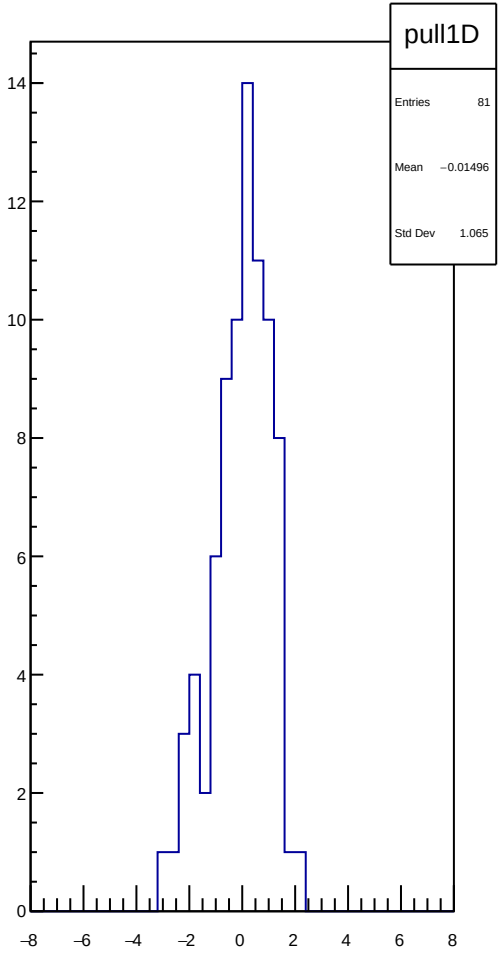

diff_bpm1Y_rms vs run
χ² / ndf 1.876e+04 / 80
p0 5894 ± 4.762
7500
7000
6500
6000
5500
5000
4500

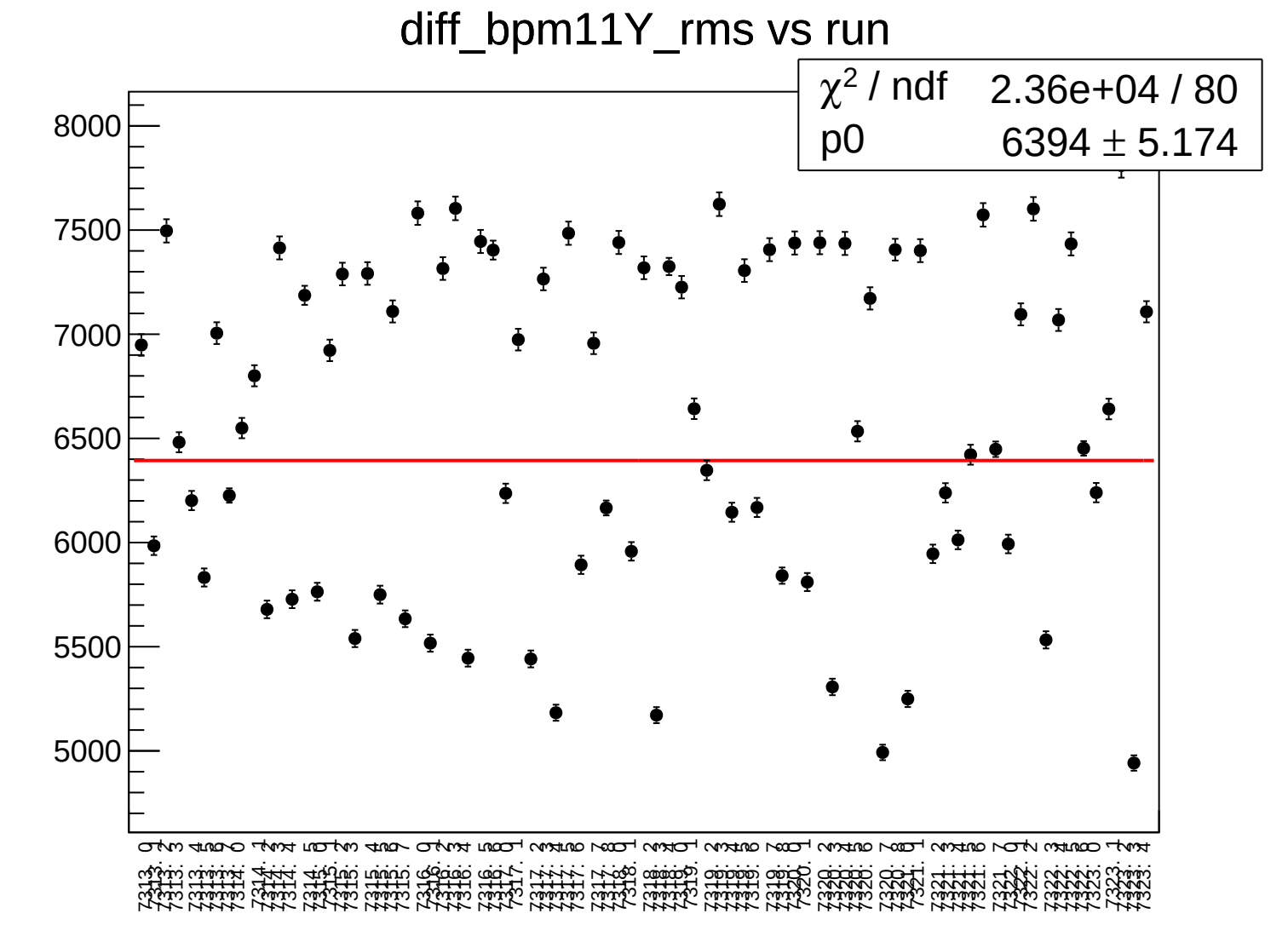

diff_bpm11X_mean vs run
χ² / ndf 77.25 / 80
p0 31.28 ± 22.3
pull
Entries 81
Mean −2206
Std Dev 2250

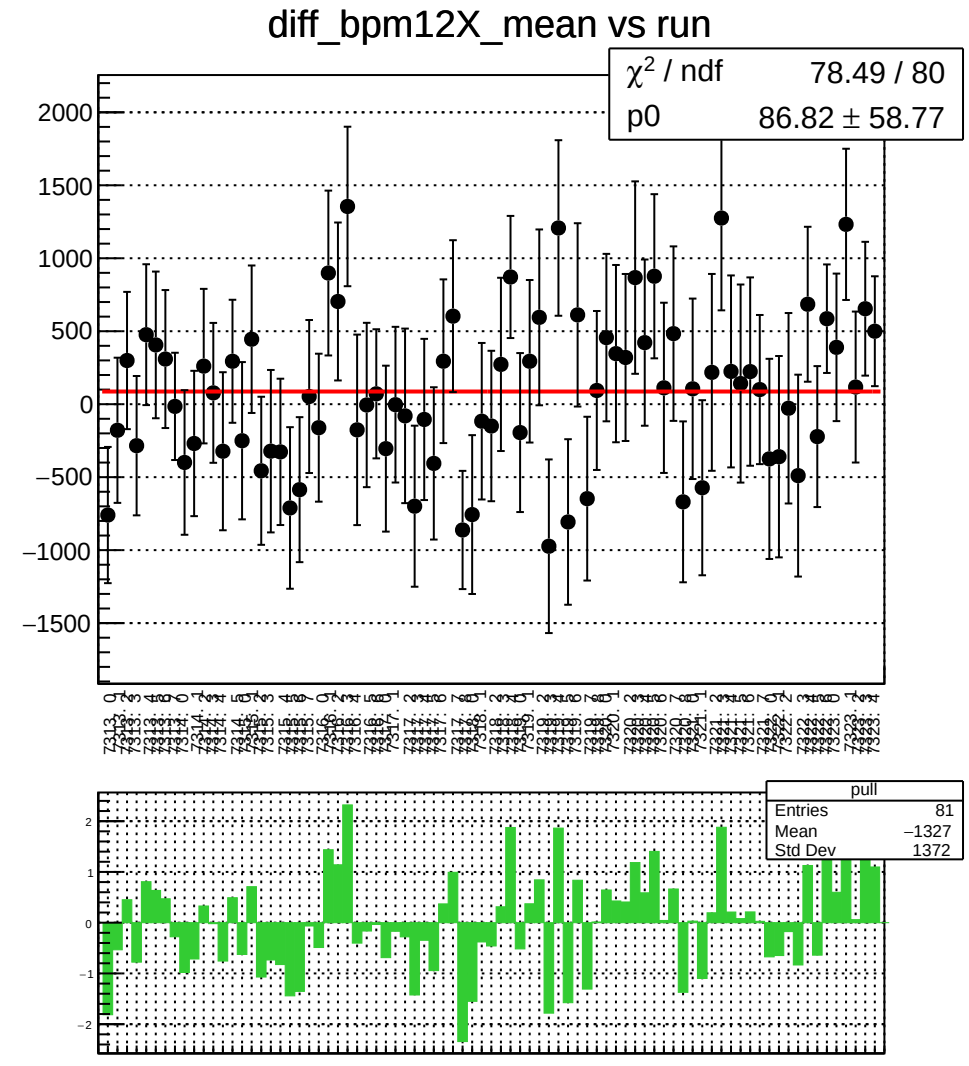

pull1D
Entries 81
Mean −0.002526
Std Dev 0.9766

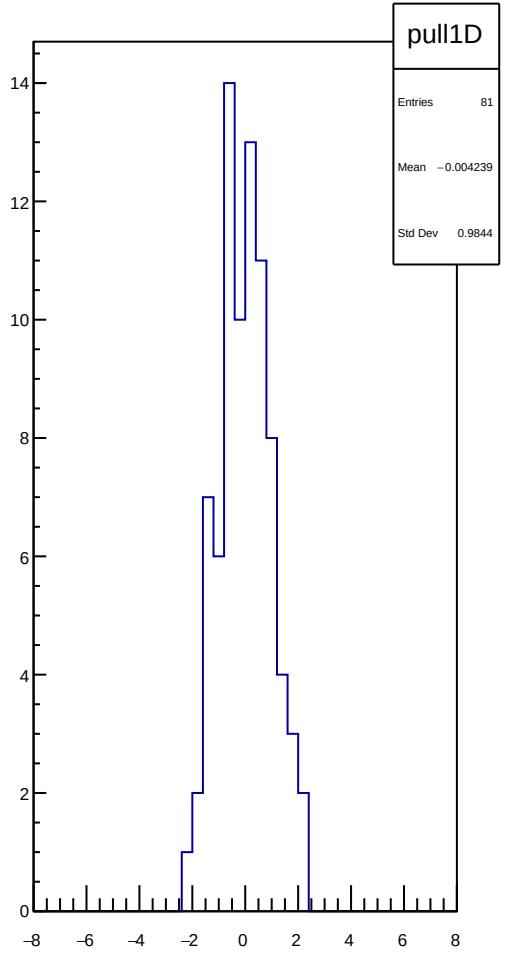

diff_bpm11X_rms vs run
χ² / ndf 1.851e+04 / 80
p0 1.952e+04 ± 15.77
26000
24000
22000
20000
18000
16000
14000

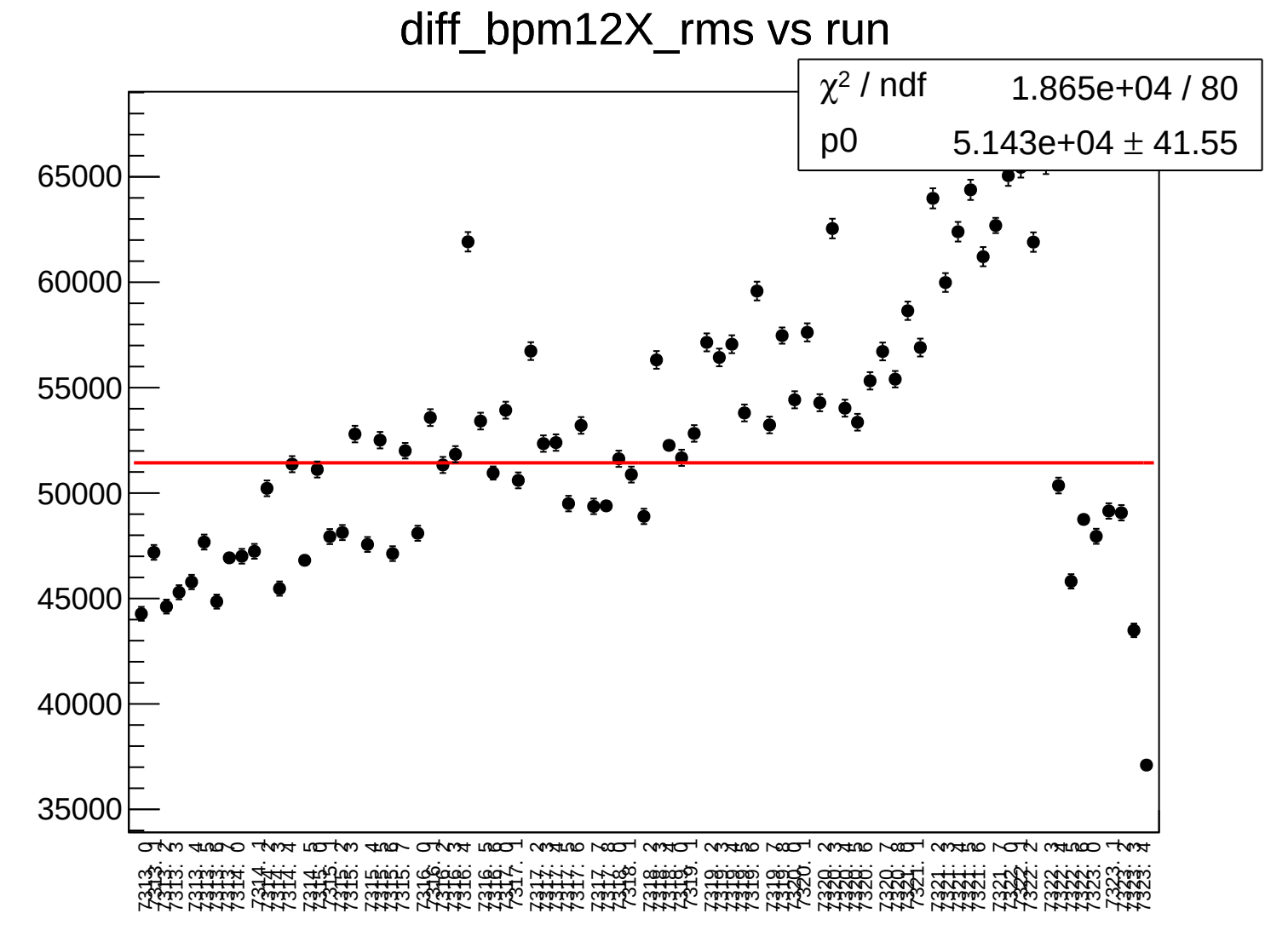

diff_bpm11Y_mean vs run
χ² / ndf 91.94 / 80
p0 5.116 ± 7.317
200
100
0
−100
−200
pull
Entries 81
Mean 111.3
Std Dev 92.1
2
1
0
−1
−2
−3

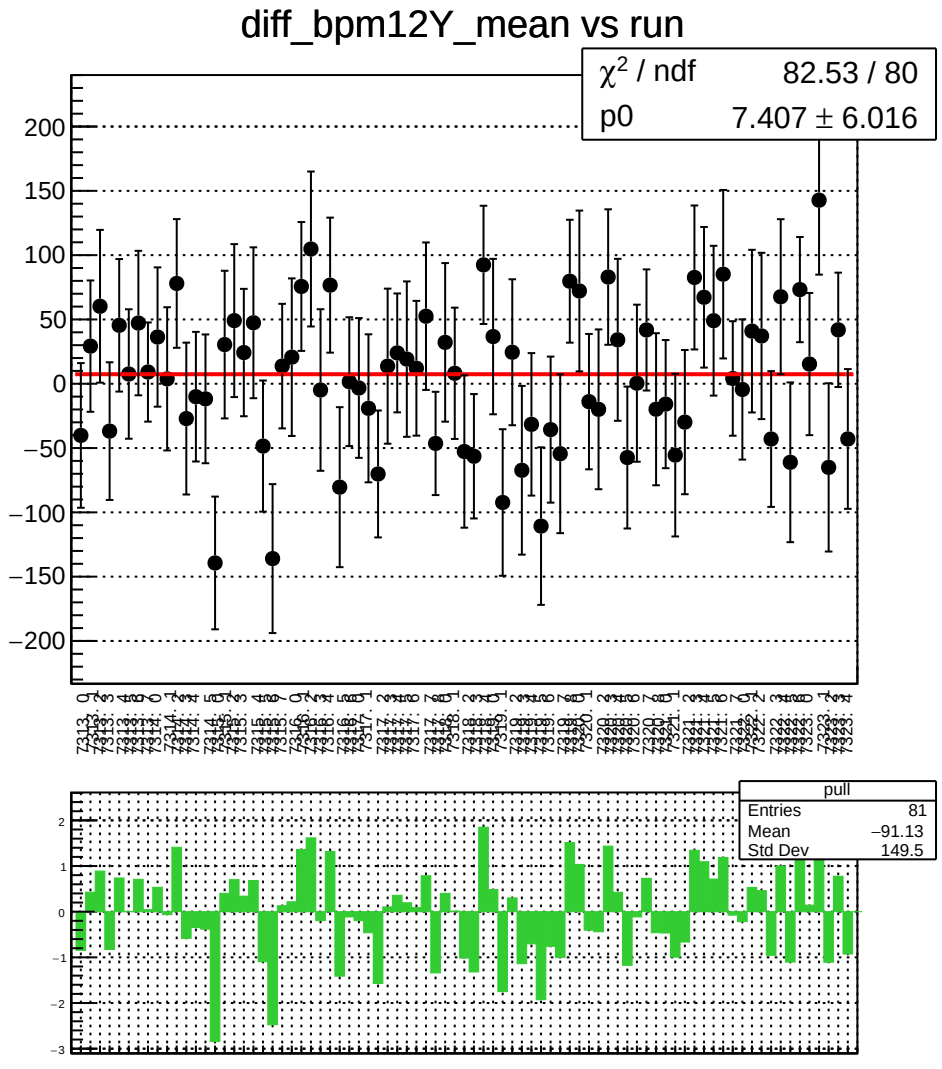

pull1D
Entries 81
Mean −0.01496
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

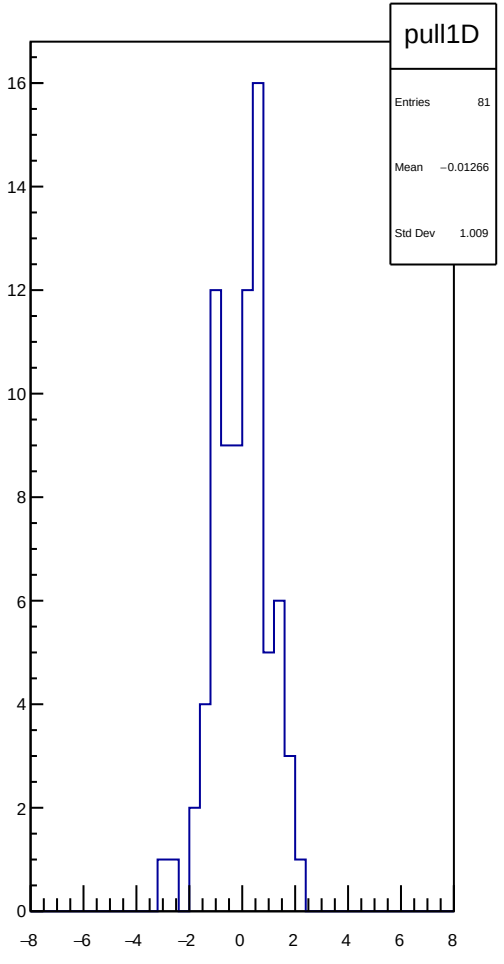

diff_bpm11Y_rms vs run
χ² / ndf 2.36e+04 / 80
p0 6394 ± 5.174
8000
7500
7000
6500
6000
5500
5000

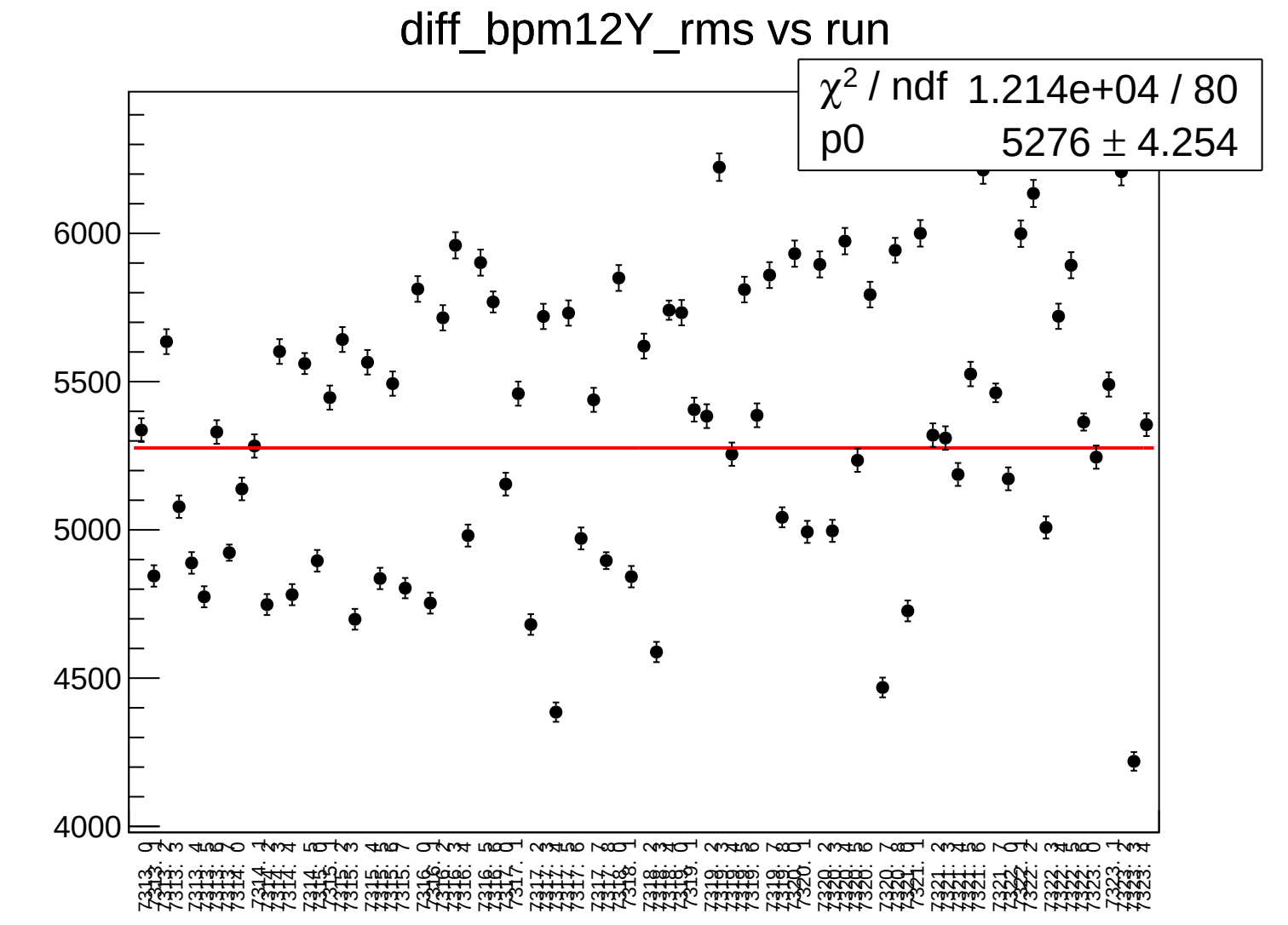

diff_bpm12X_mean vs run
χ² / ndf 78.49 / 80
p0 86.82 ± 58.77
pull
Entries 81
Mean −1327
Std Dev 1372

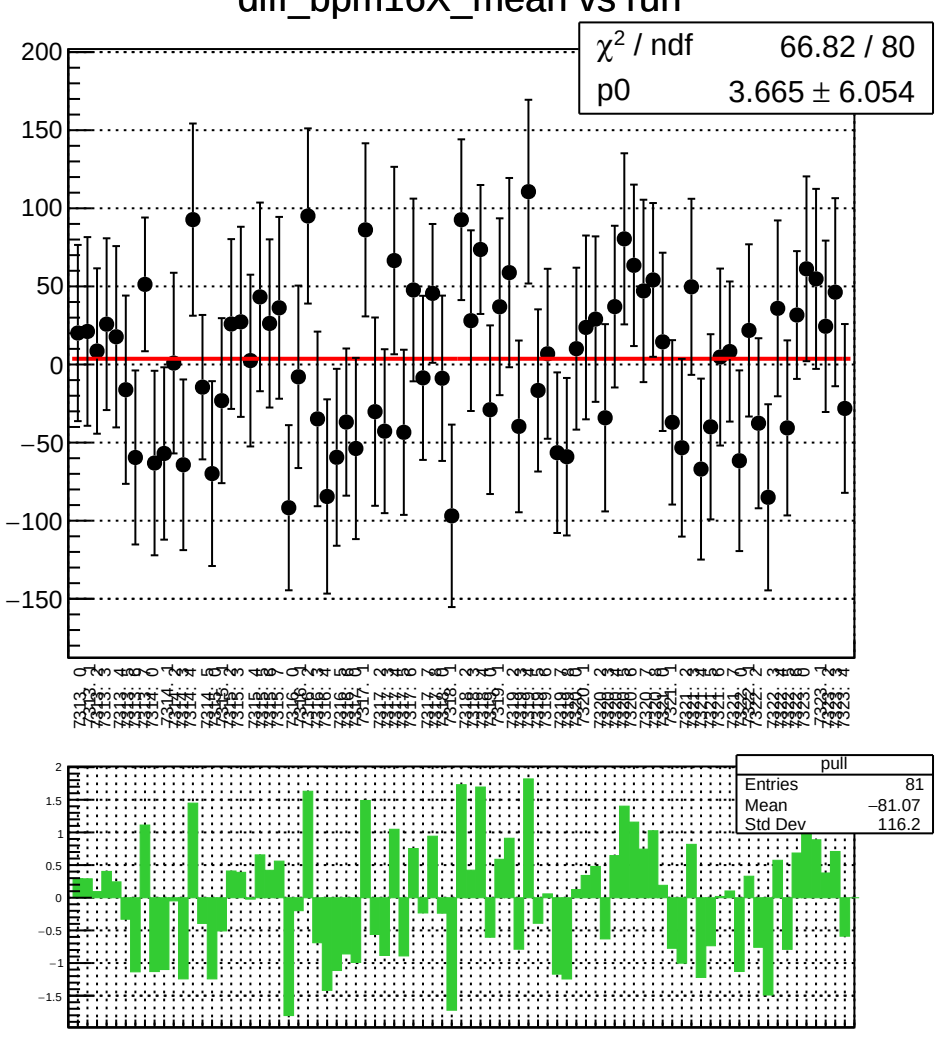

pull1D
Entries 81
Mean −0.004239
Std Dev 0.9844

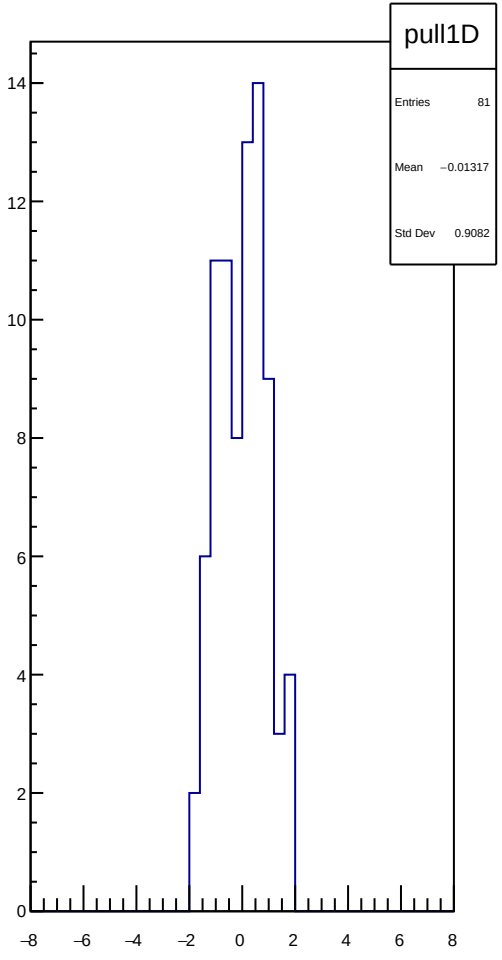

diff_bpm12X_rms vs run
χ² / ndf 1.865e+04 / 80
p0 5.143e+04 ± 41.55
65000
60000
55000
50000
45000
40000
35000

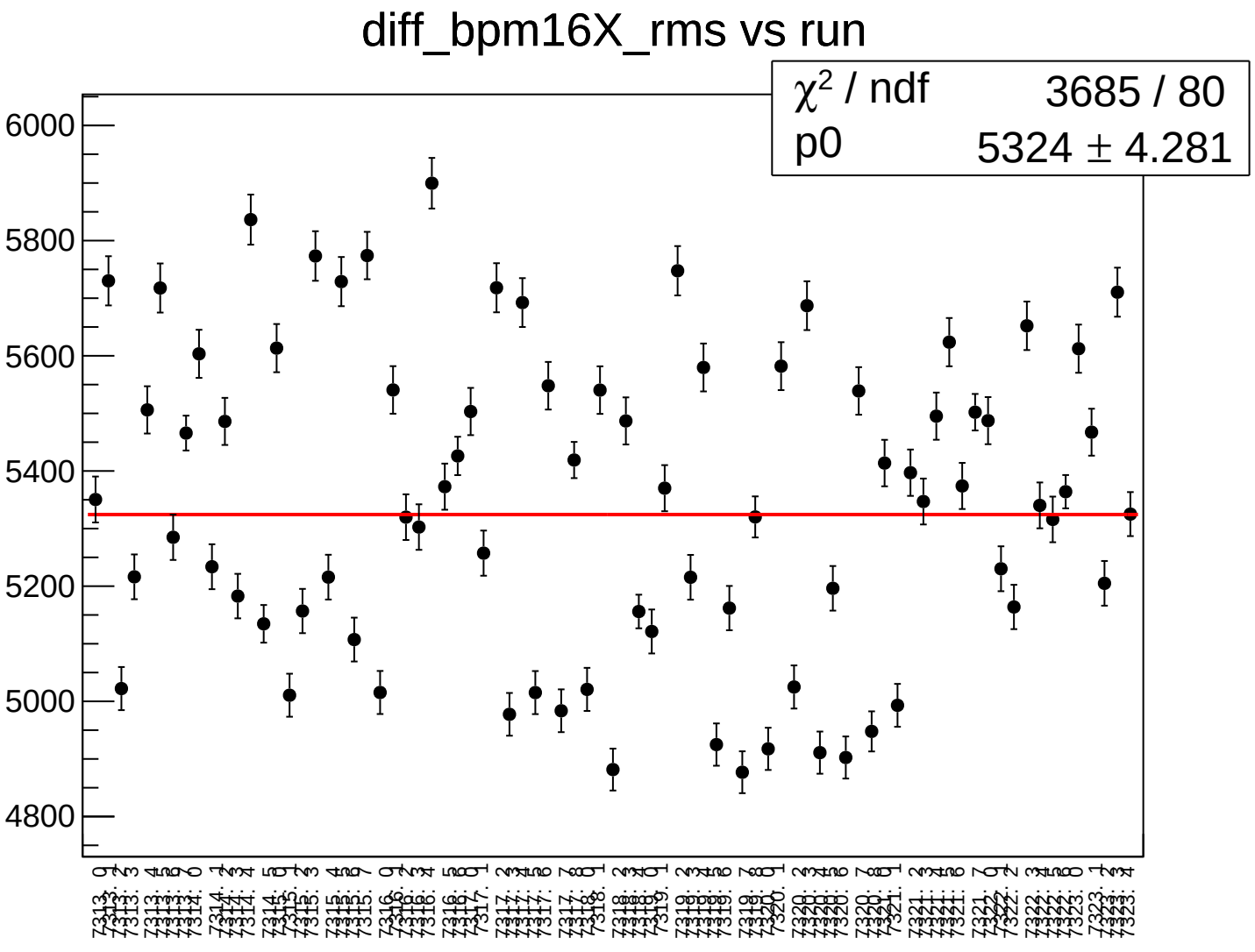

diff_bpm12Y_mean vs run
χ² / ndf 82.53 / 80
p0 7.407 ± 6.016
pull
Entries 81
Mean −91.13
Std Dev 149.5

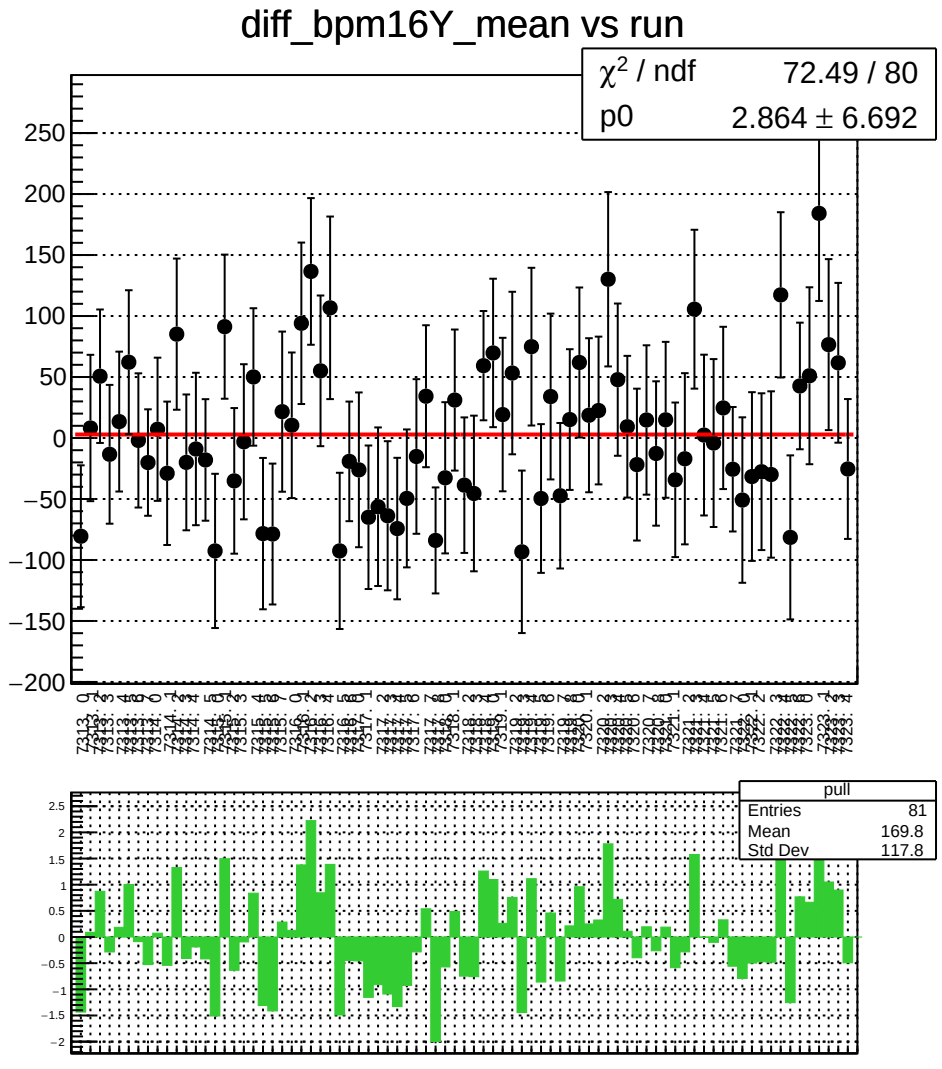

pull1D
Entries 81
Mean −0.01266
Std Dev 1.009

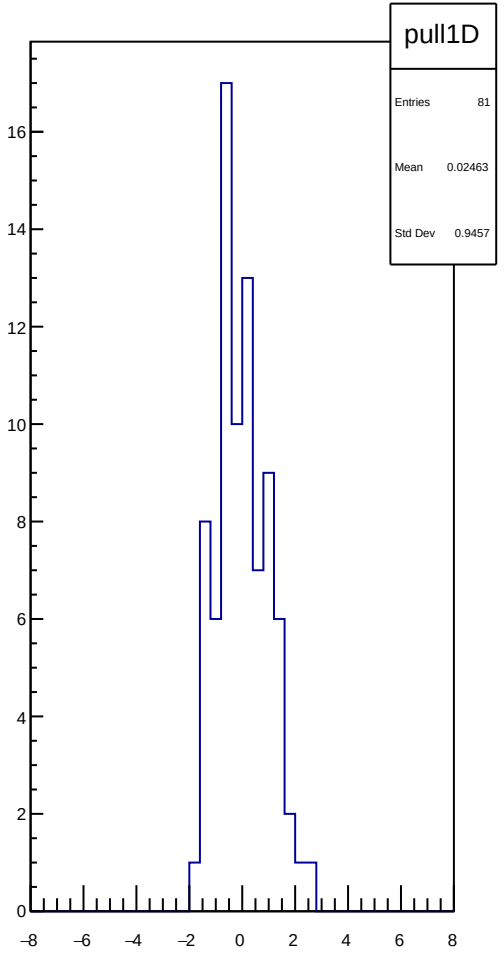

diff_bpm12Y_rms vs run
χ² / ndf 1.214e+04 / 80
p0 5276 ± 4.254
6000
5500
5000
4500
4000

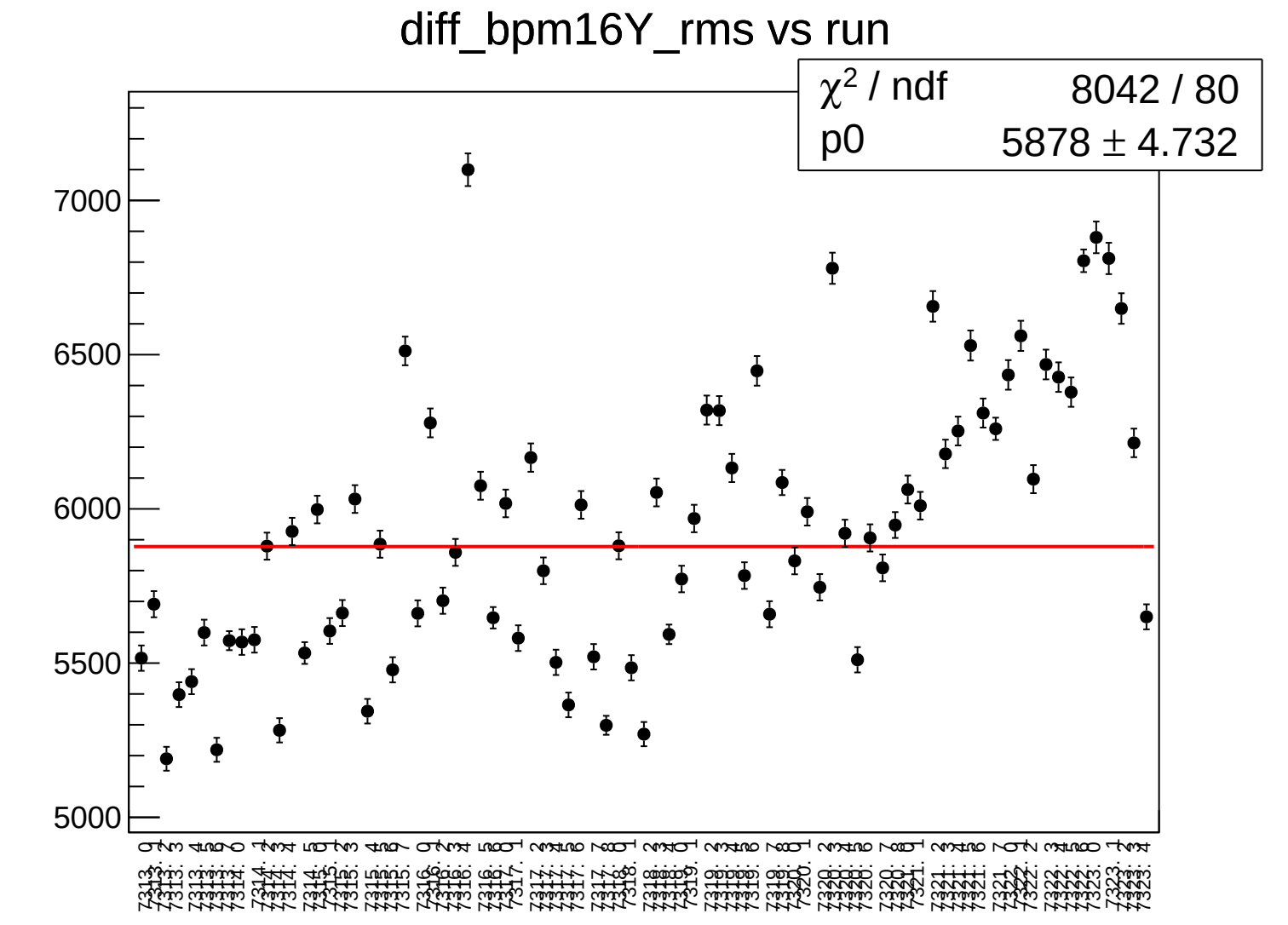

diff_bpm16X_mean vs run
χ^2 / ndf 66.82 / 80
p0 3.665 ± 6.054
pull
Entries 81
Mean −81.07
Std Dev 116.2

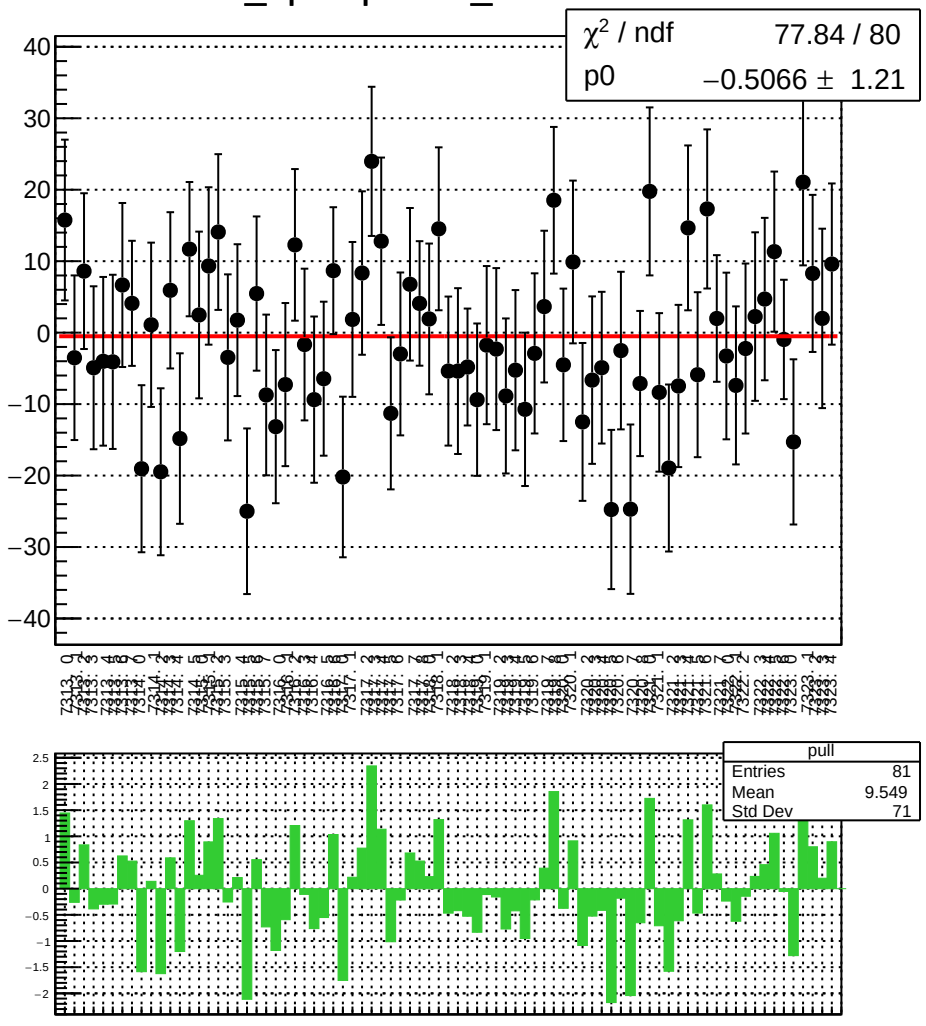

pull1D
Entries 81
Mean −0.01317
Std Dev 0.9082

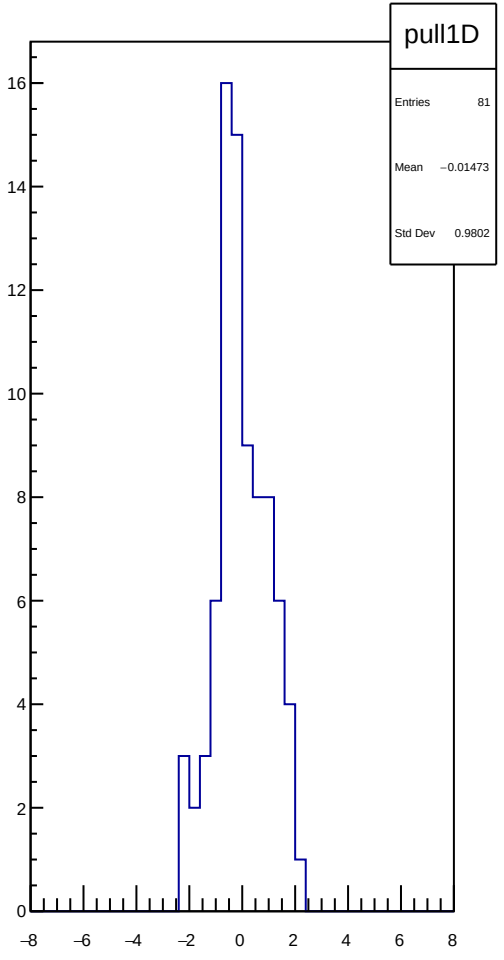

diff_bpm16X_rms vs run
χ² / ndf 3685 / 80
p0 5324 ± 4.281
6000
5800
5600
5400
5200
5000
4800

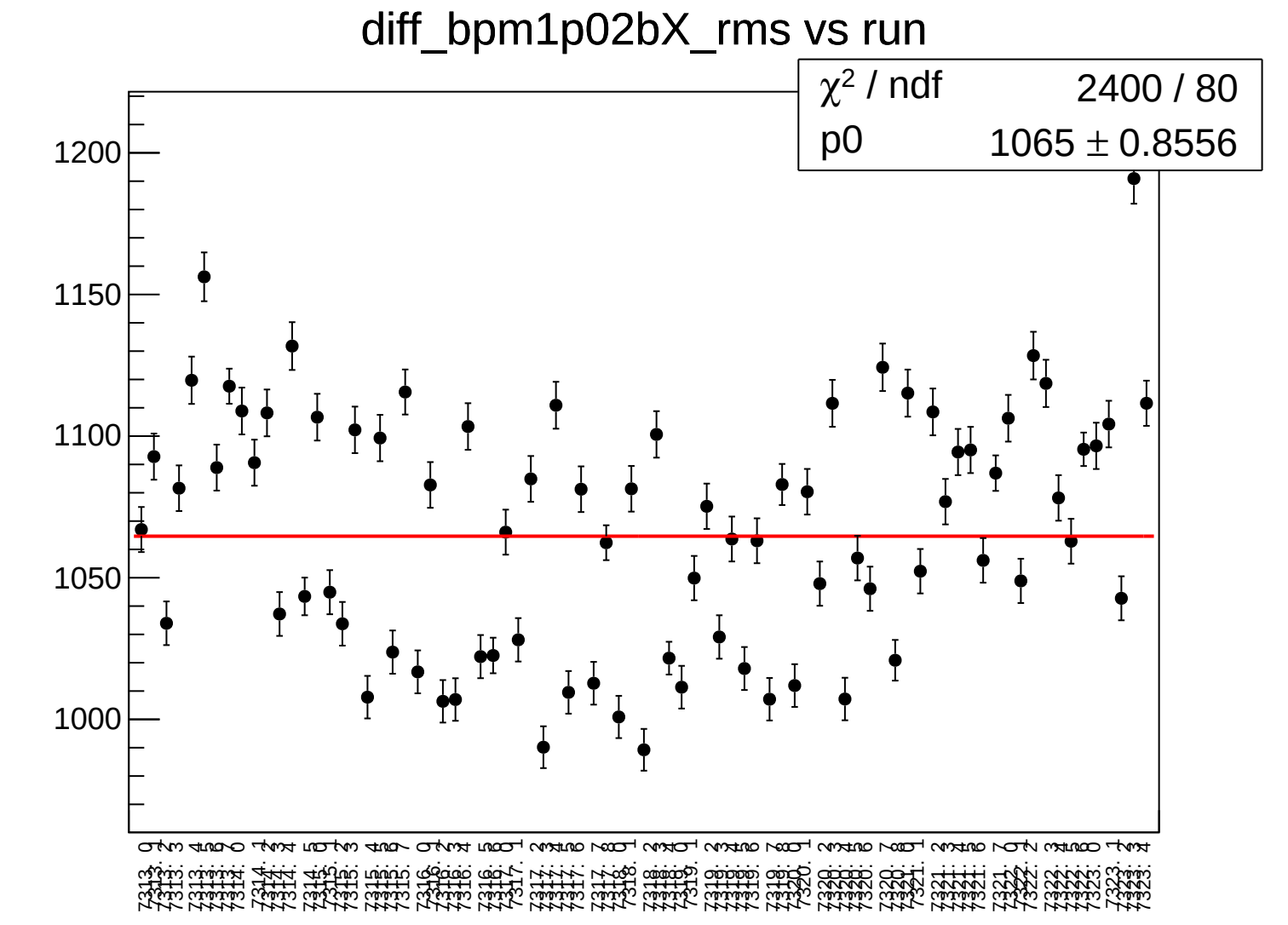

diff_bpm16Y_mean vs run
χ² / ndf 72.49 / 80
p0 2.864 ± 6.692
pull
Entries 81
Mean 169.8
Std Dev 117.8

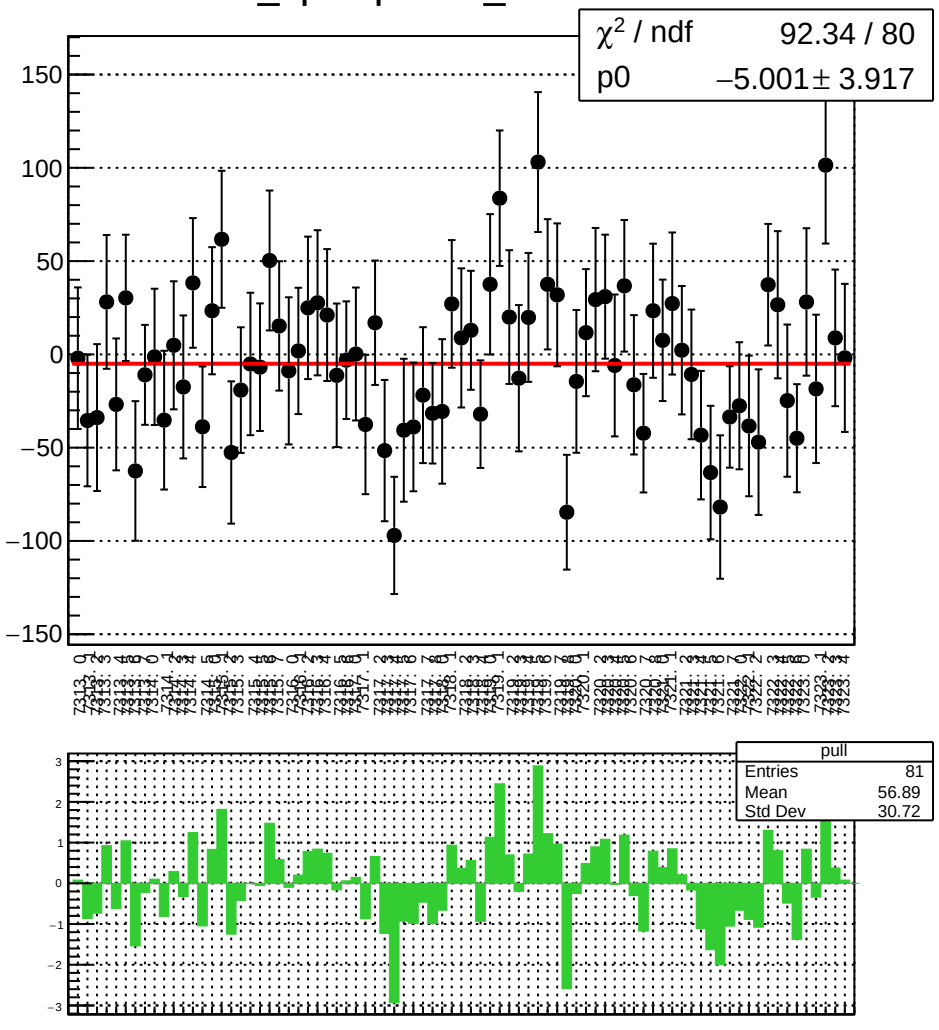

pull1D
Entries 81
Mean 0.02463
Std Dev 0.9457

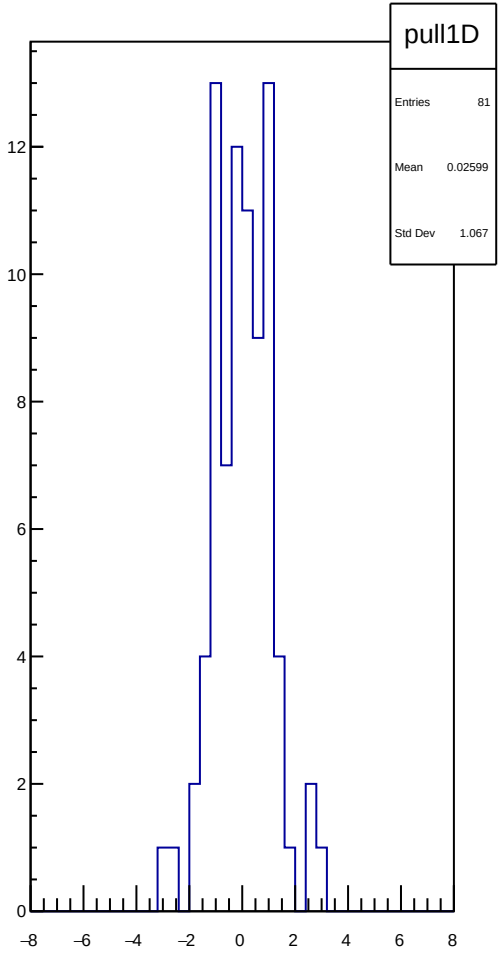

diff_bpm16Y_rms vs run
χ² / ndf 8042 / 80
p0 5878 ± 4.732
7000
6500
6000
5500
5000

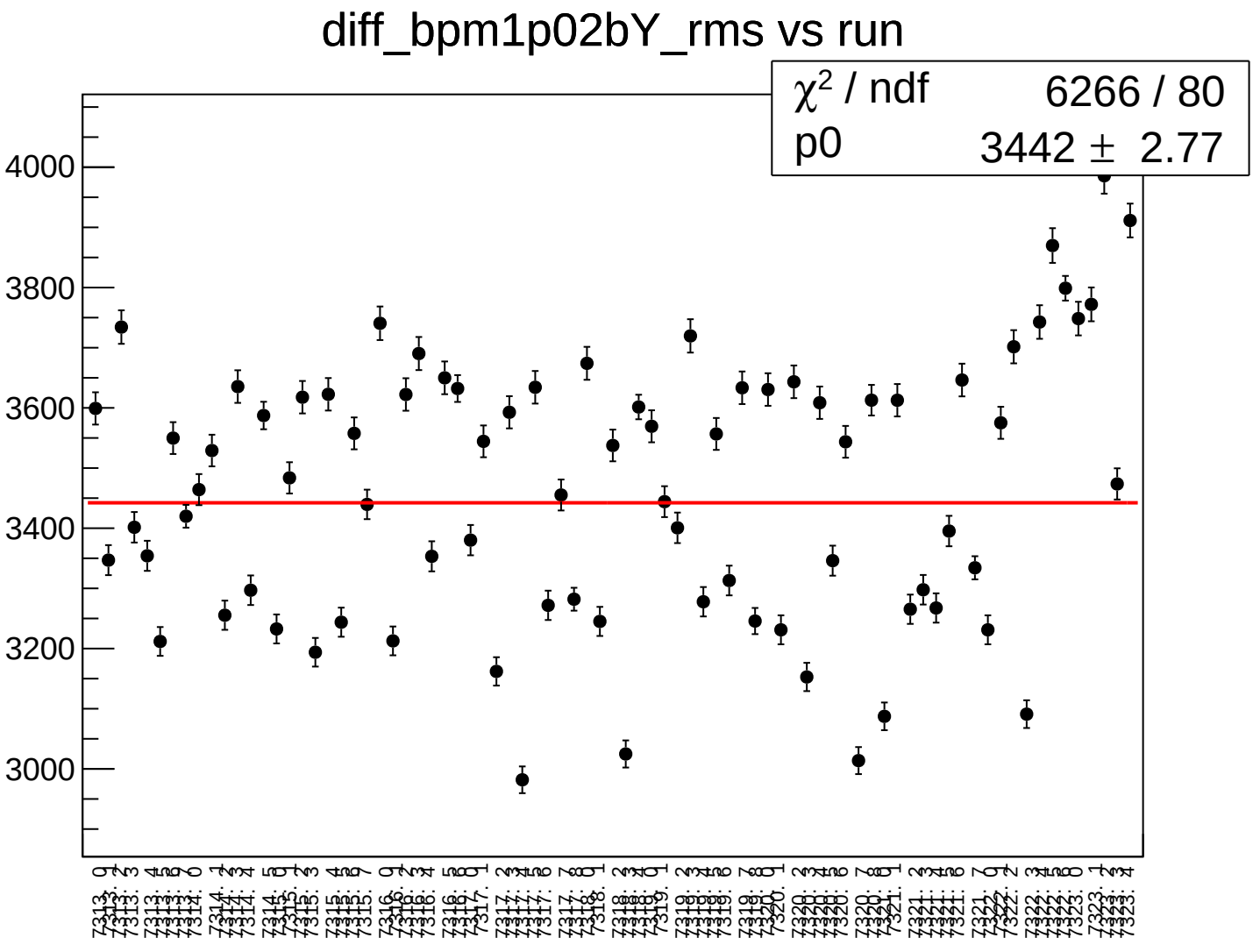

diff_bpm1p02bX_mean vs run
χ² / ndf 77.84 / 80
p0 −0.5066 ± 1.21
pull
Entries 81
Mean 9.549
Std Dev 71

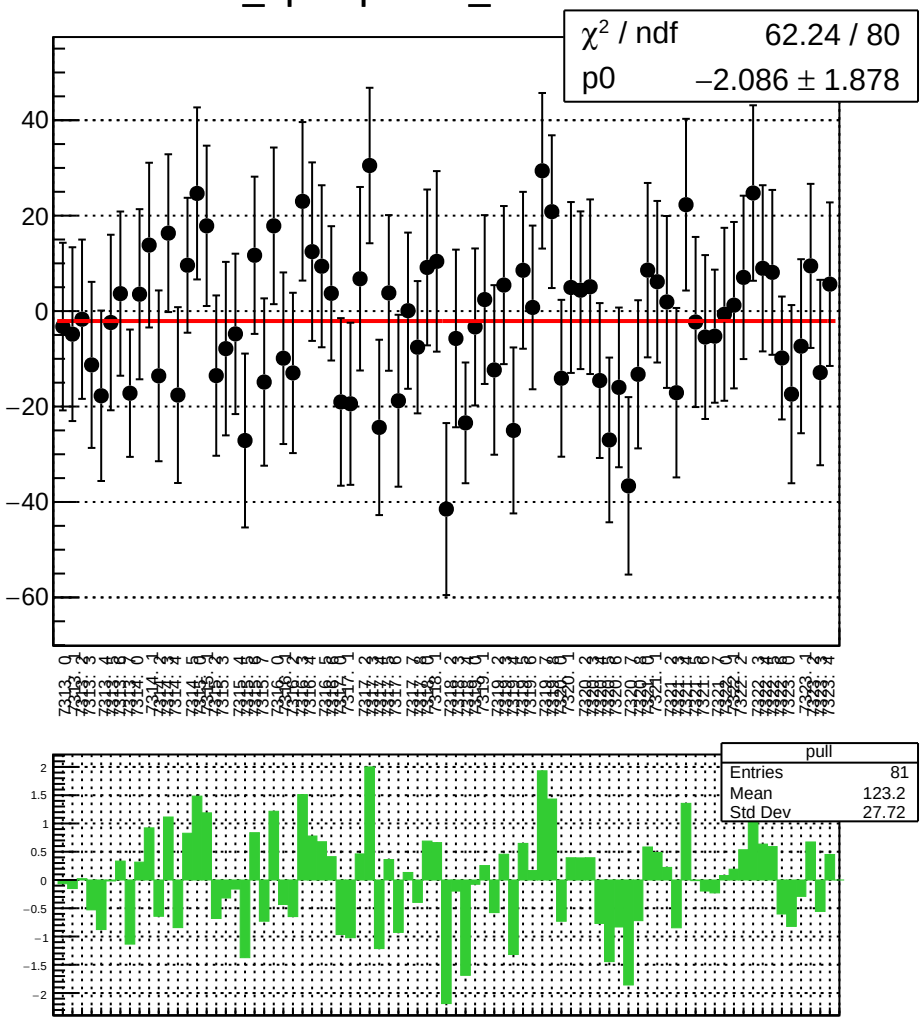

pull1D
Entries 81
Mean −0.01473
Std Dev 0.9802

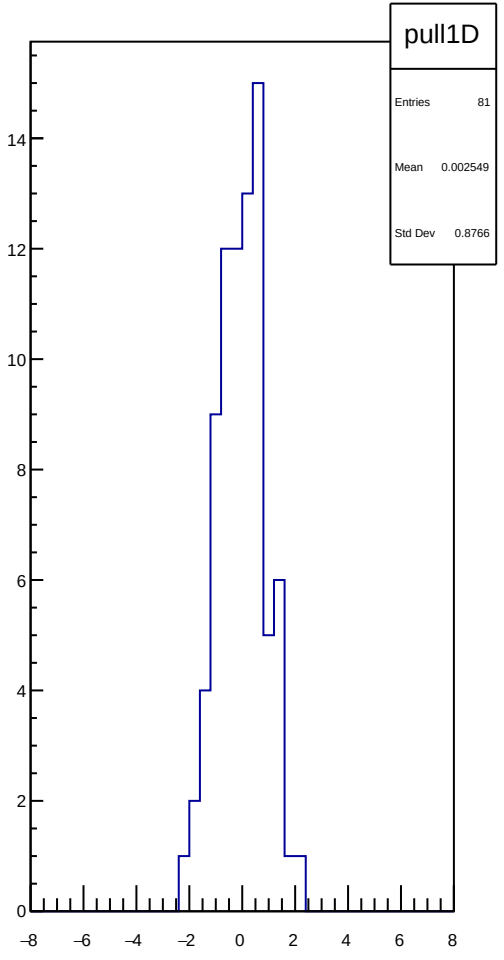

diff_bpm1p02bX_rms vs run
χ² / ndf 2400 / 80
p0 1065 ± 0.8556
1200
1150
1100
1050
1000

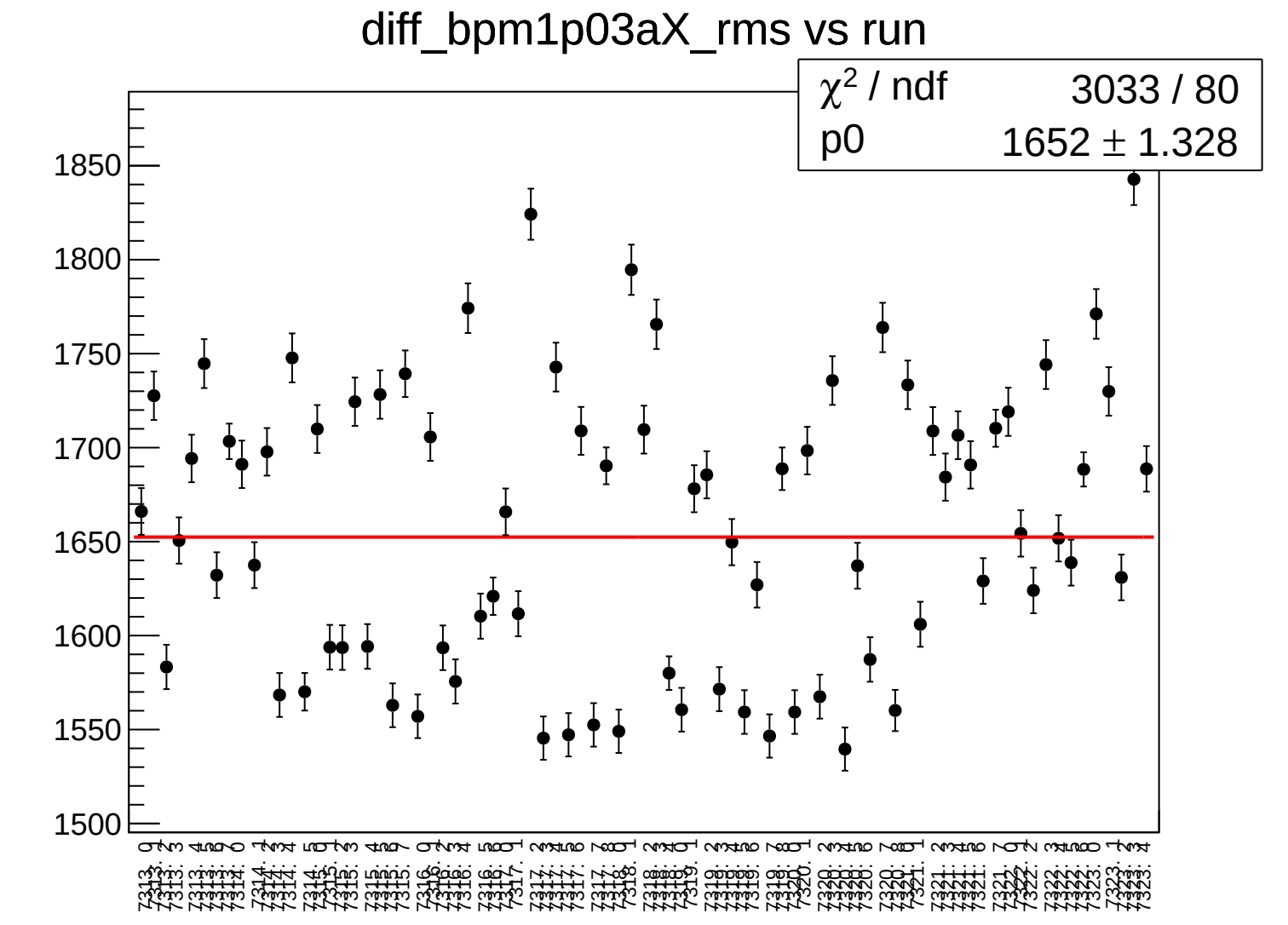

diff_bpm1p02bY_mean vs run
χ² / ndf 92.34 / 80
p0 −5.001 ± 3.917
pull
Entries 81
Mean 56.89
Std Dev 30.72

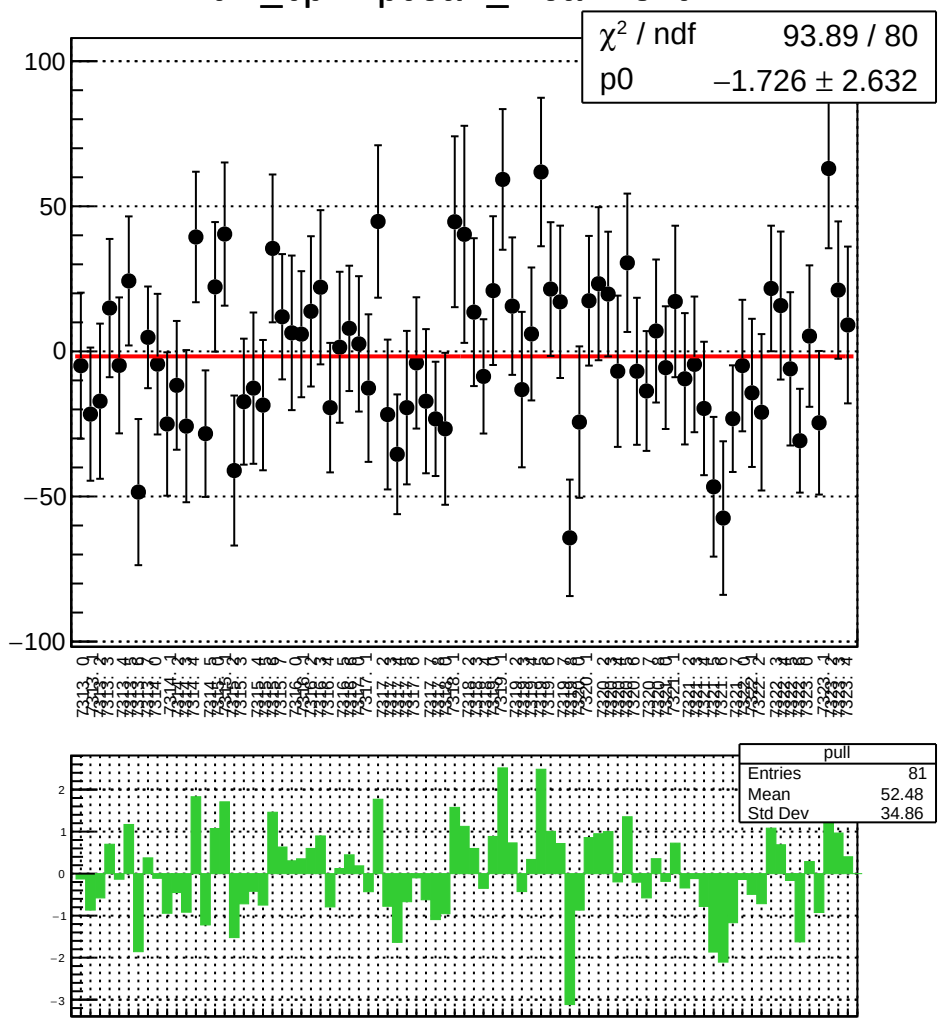

pull1D
Entries 81
Mean 0.02599
Std Dev 1.067

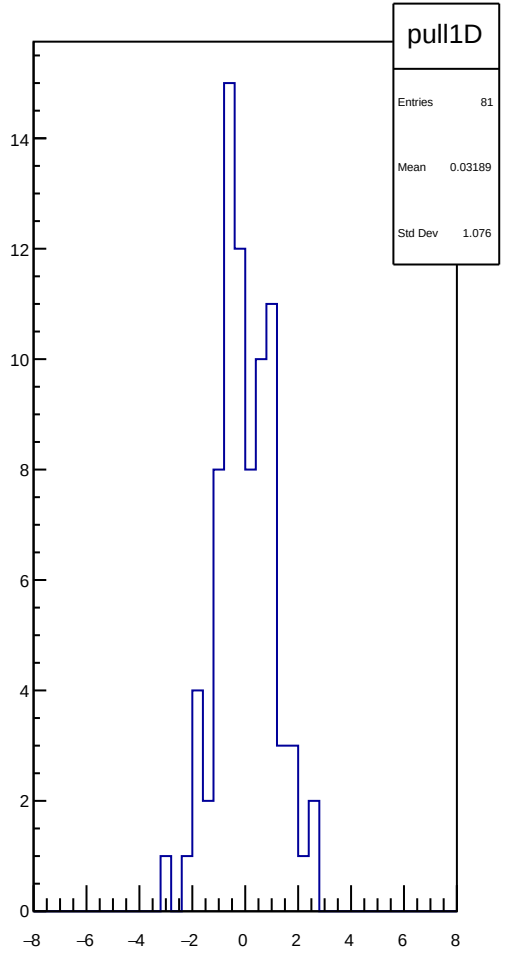

diff_bpm1p02bY_rms vs run
χ² / ndf 6266 / 80
p0 3442 ± 2.77
4000
3800
3600
3400
3200
3000

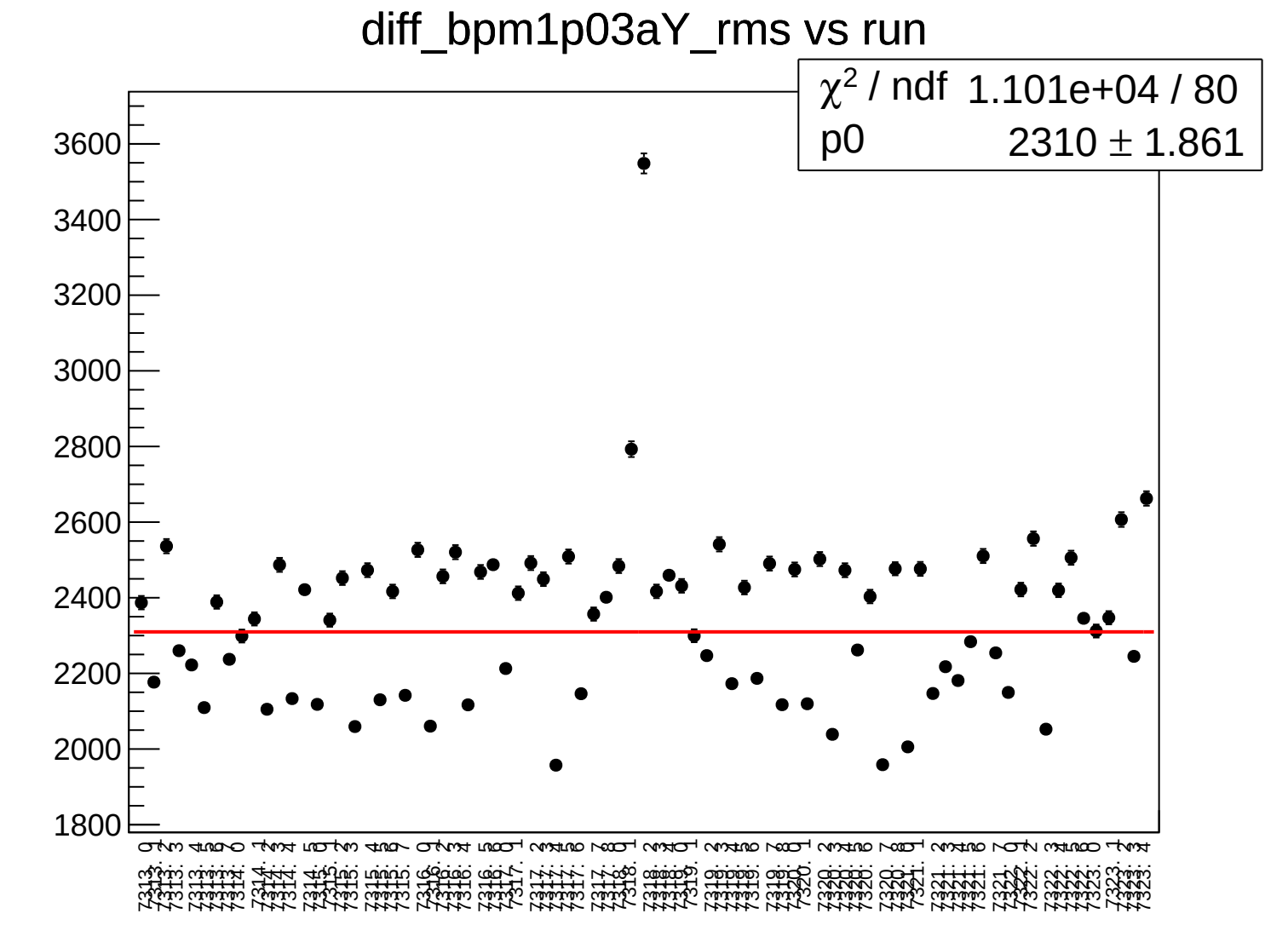

diff_bpm1p03aX_mean vs run
χ² / ndf 62.24 / 80
p0 −2.086 ± 1.878
pull
Entries 81
Mean 123.2
Std Dev 27.72

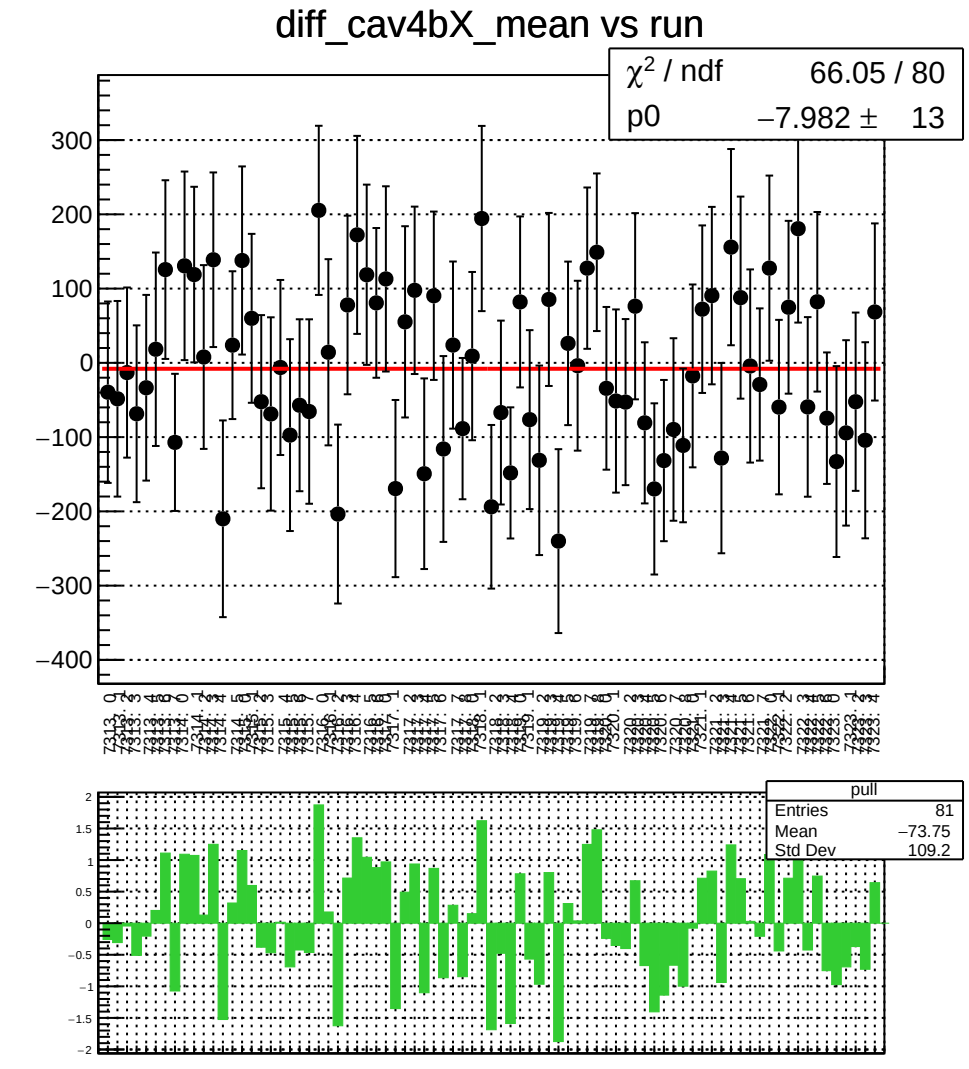

pull1D
Entries 81
Mean 0.002549
Std Dev 0.8766

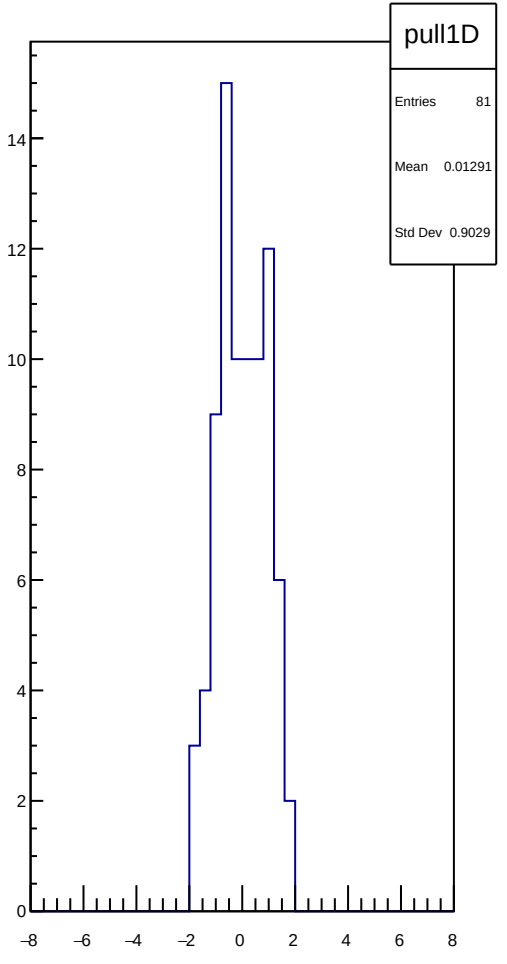

diff_bpm1p03aX_rms vs run
χ² / ndf 3033 / 80
p0 1652 ± 1.328
1850
1800
1750
1700
1650
1600
1550
1500

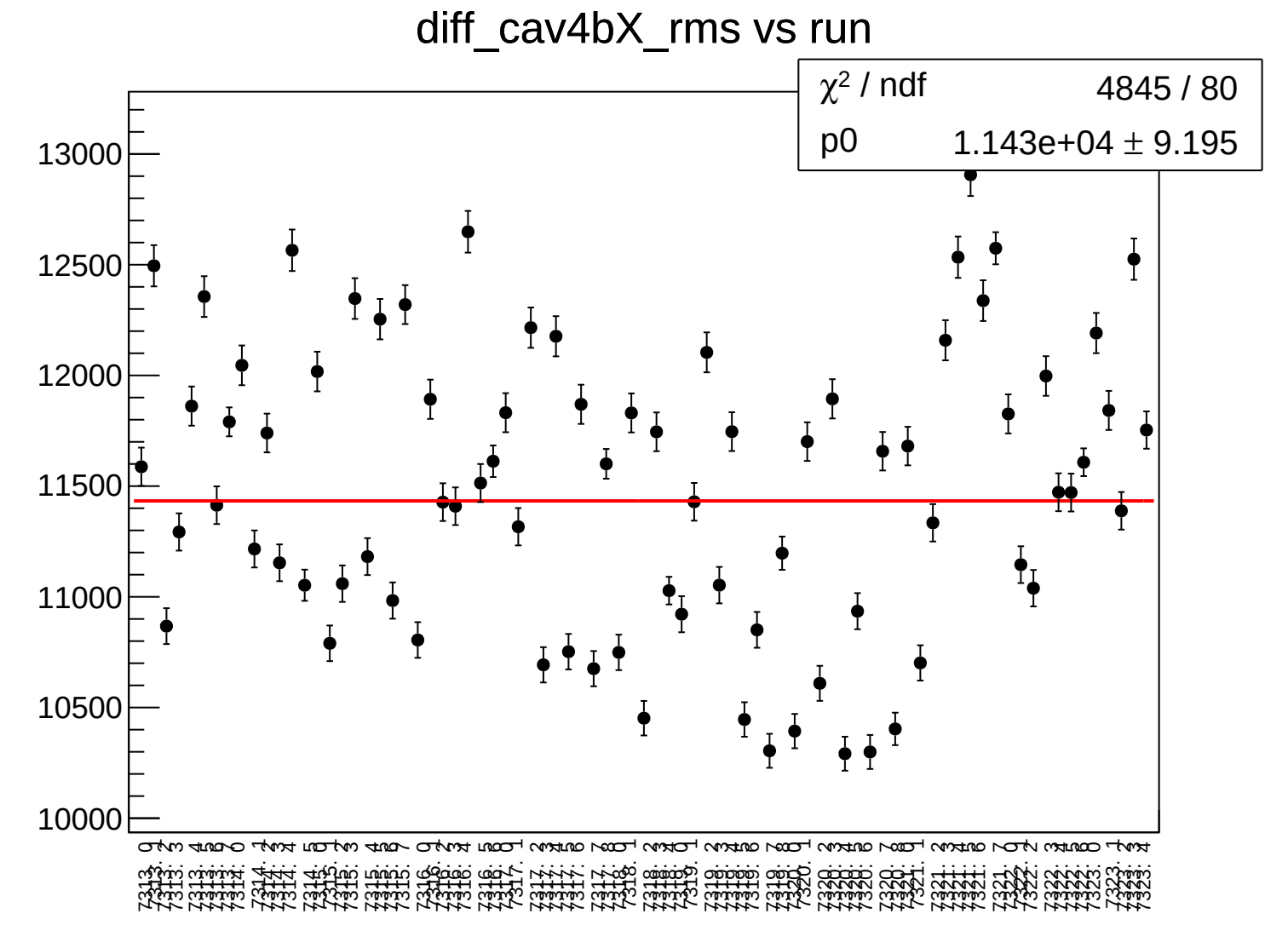

diff_bpm1p03aY_mean vs run
χ² / ndf 93.89 / 80
p0 −1.726 ± 2.632
pull
Entries 81
Mean 52.48
Std Dev 34.86

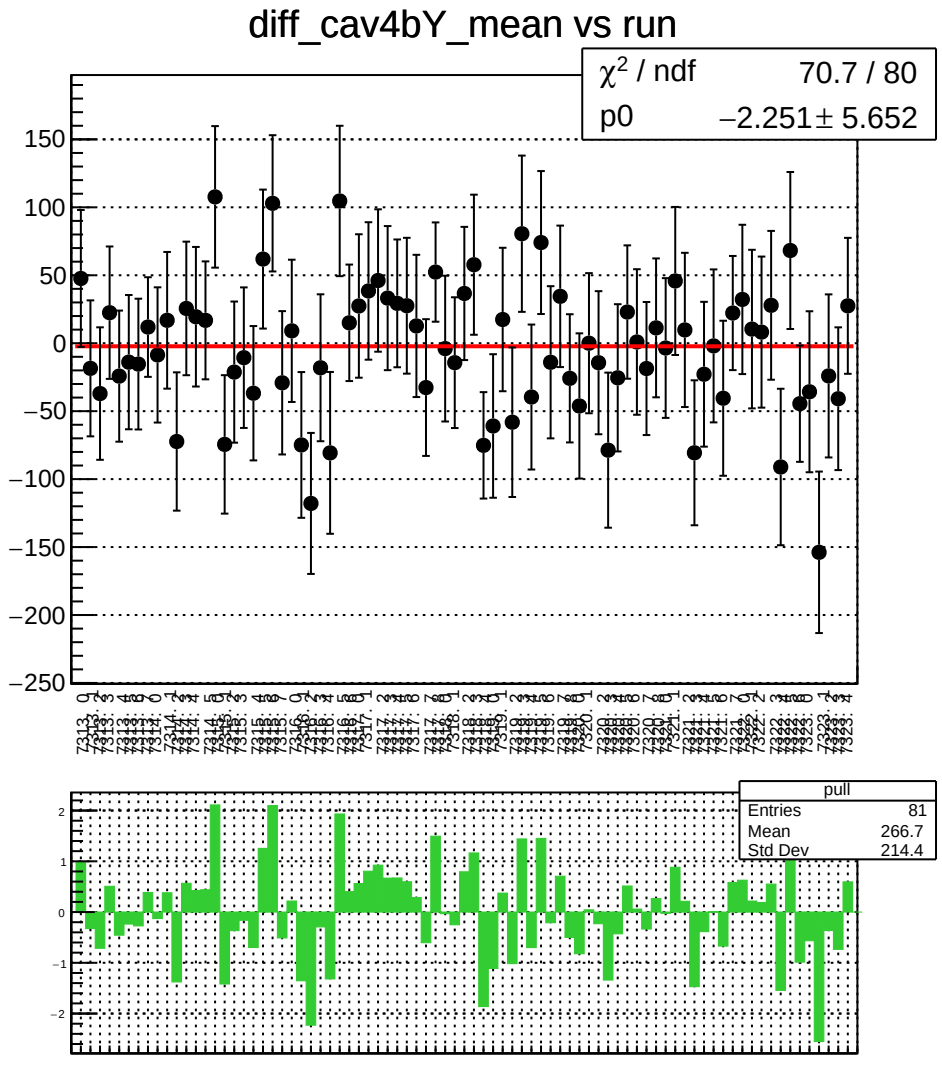

pull1D
Entries 81
Mean 0.03189
Std Dev 1.076

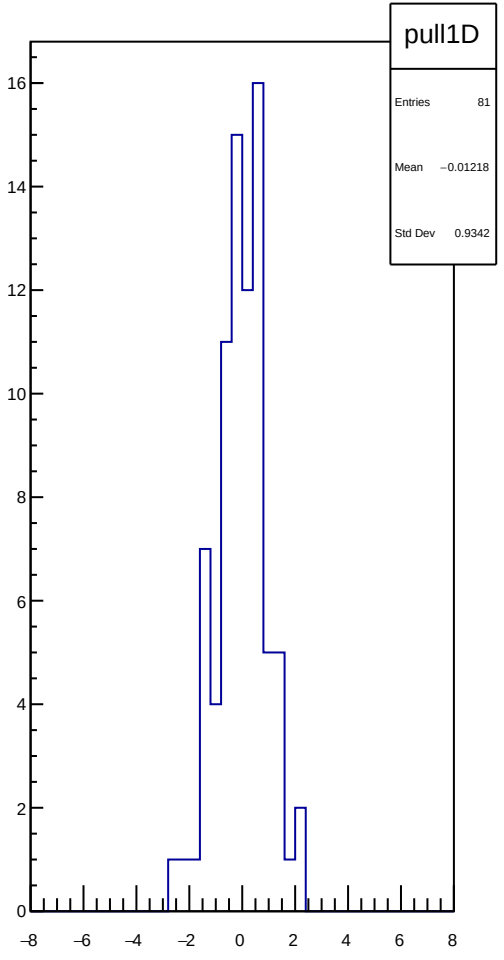

diff_bpm1p03aY_rms vs run
χ² / ndf 1.101e+04 / 80
p0 2310 ± 1.861
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

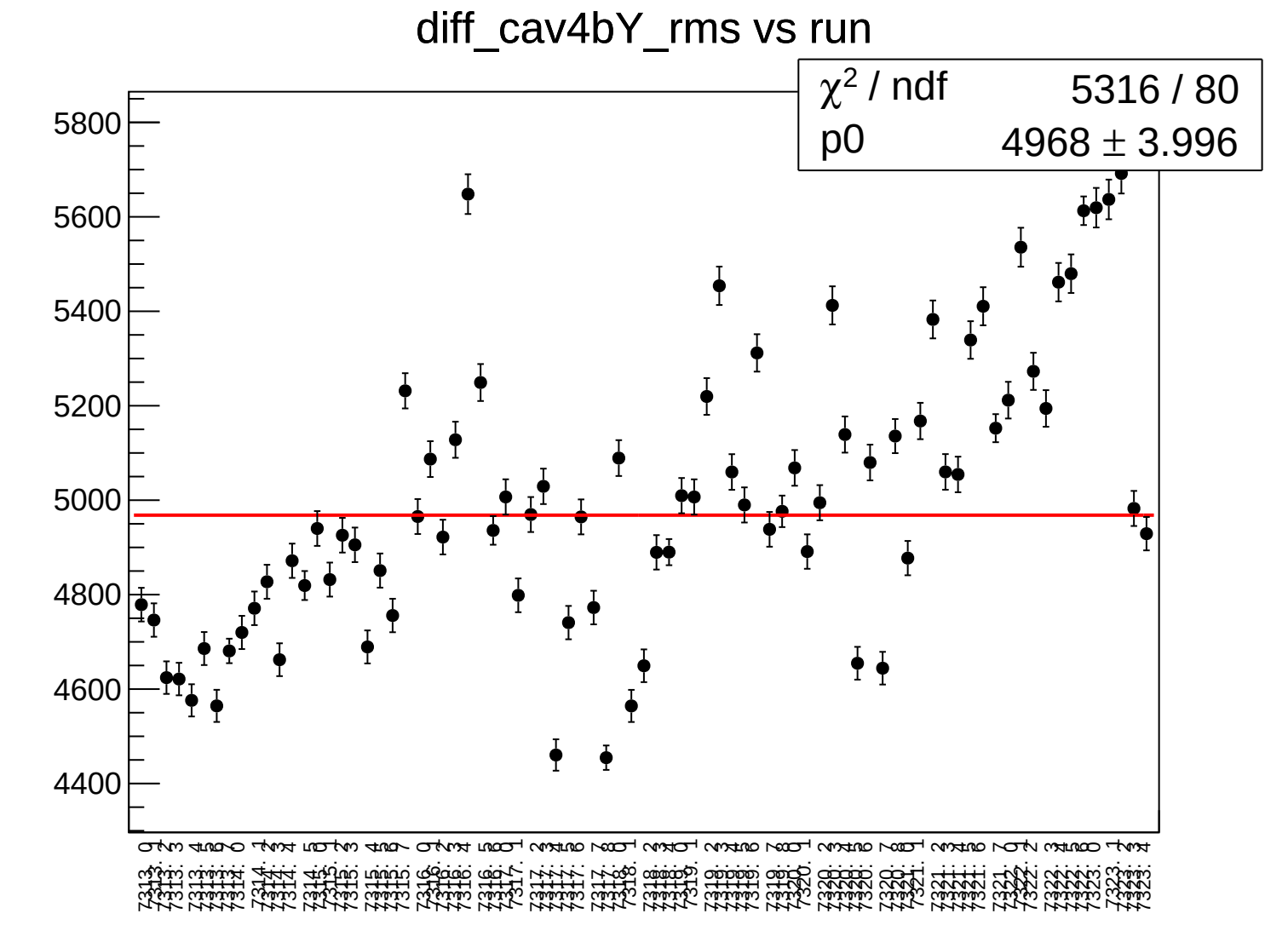

diff_cav4bX_mean vs run
χ² / ndf 66.05 / 80
p0 −7.982 ± 13
pull
Entries 81
Mean −73.75
Std Dev 109.2

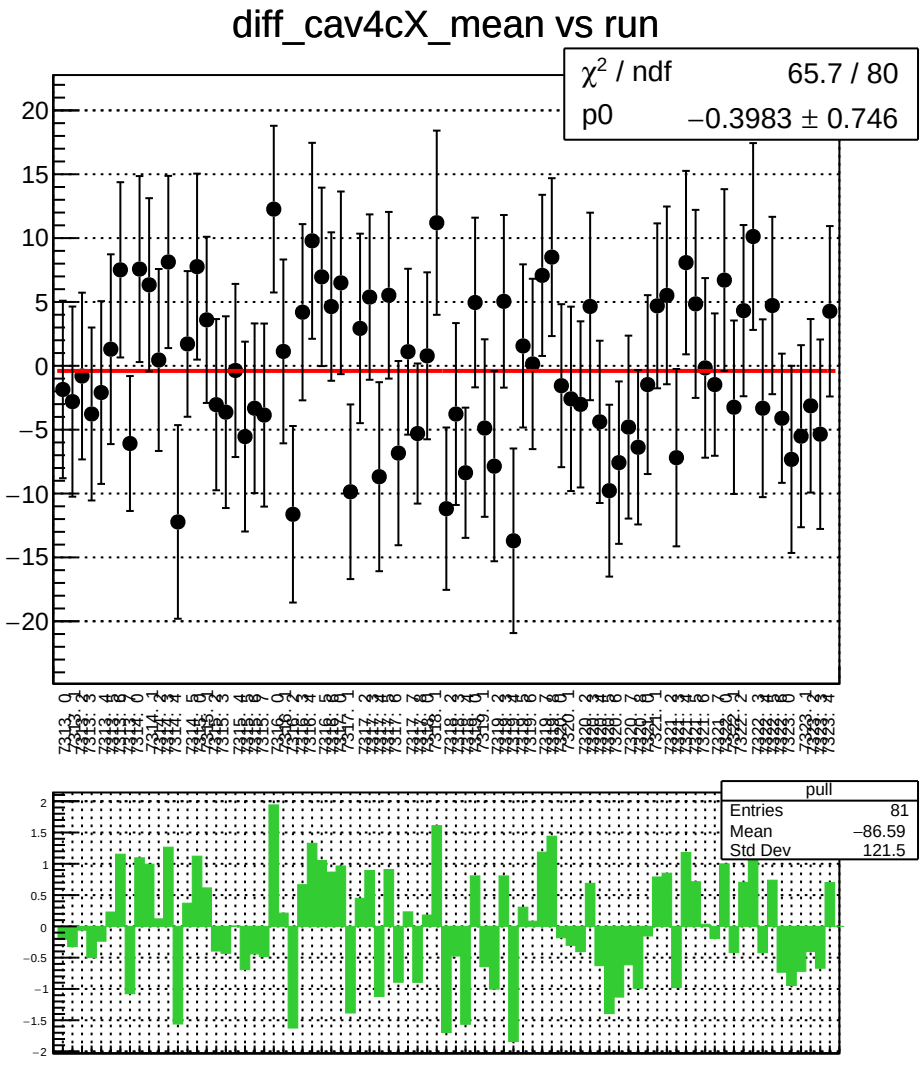

pull1D
Entries 81
Mean 0.01291
Std Dev 0.9029

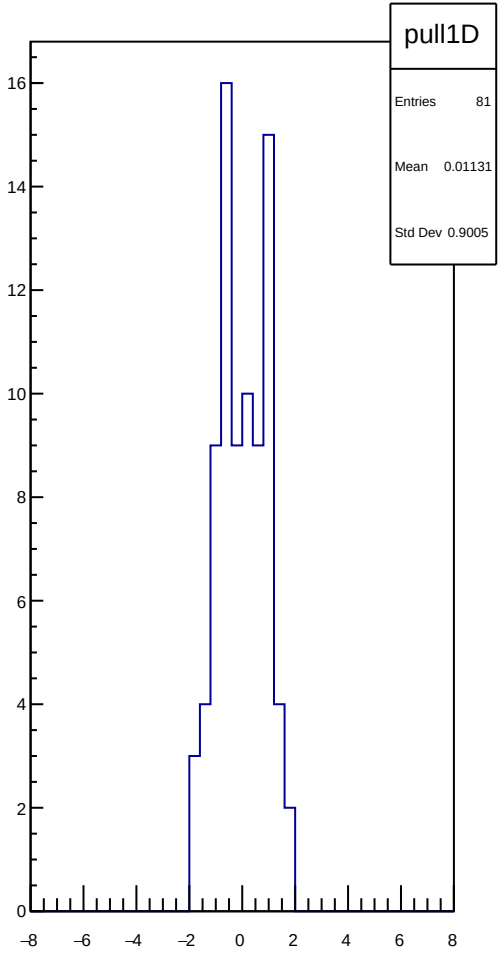

diff_cav4bX_rms vs run
χ² / ndf 4845 / 80
p0 1.143e+04 ± 9.195
13000
12500
12000
11500
11000
10500
10000

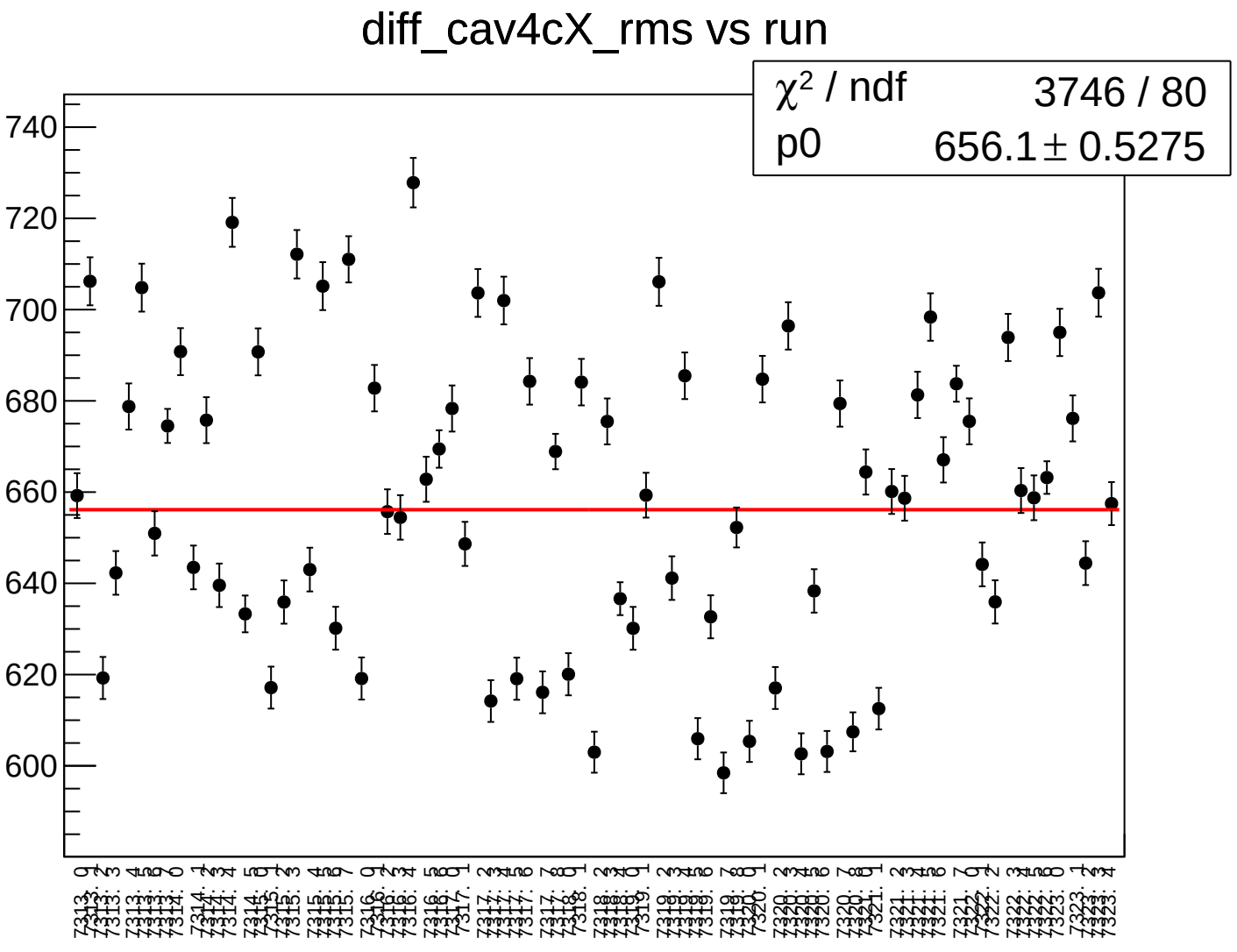

diff_cav4bY_mean vs run
χ^2 / ndf 70.7 / 80
p0 −2.251 ± 5.652
pull
Entries 81
Mean 266.7
Std Dev 214.4

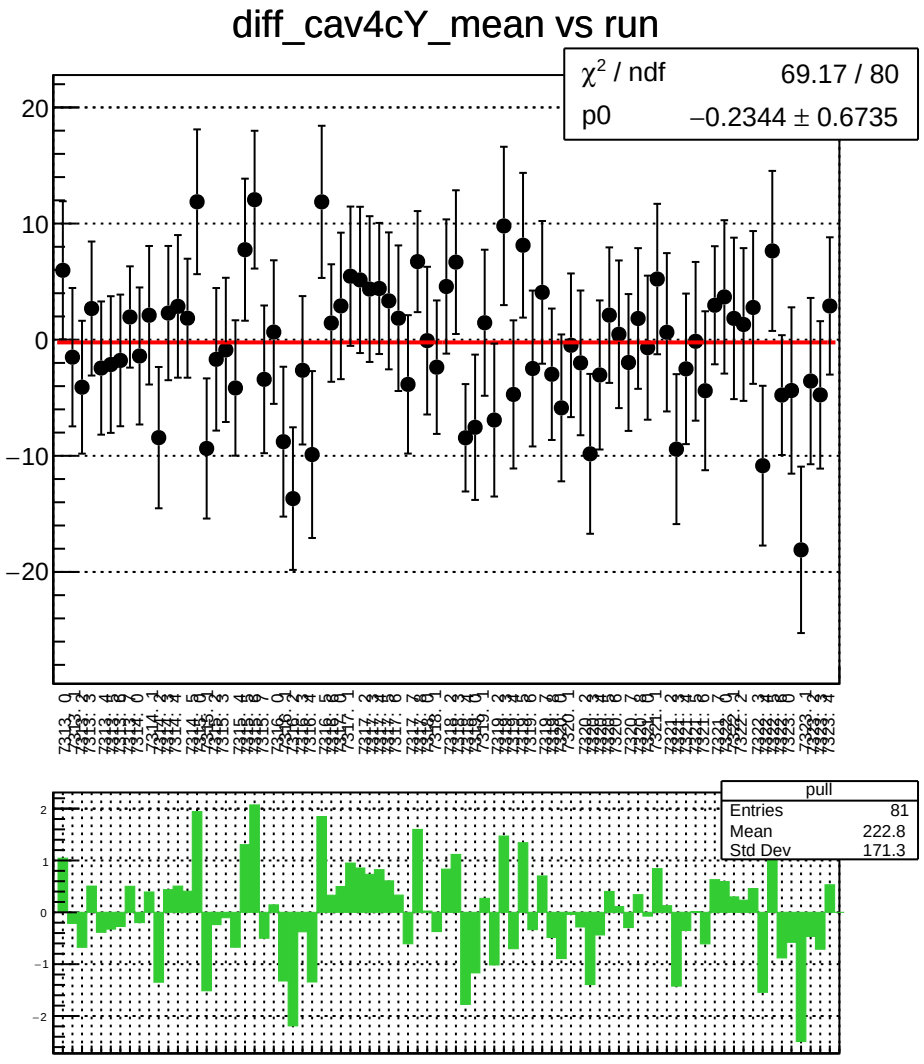

pull1D
Entries 81
Mean −0.01218
Std Dev 0.9342

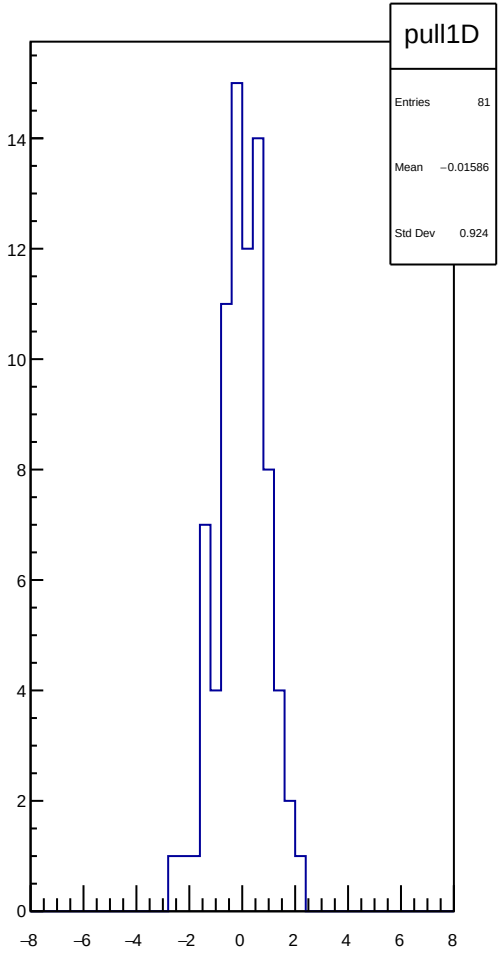

diff_cav4bY_rms vs run
χ² / ndf 5316 / 80
p0 4968 ± 3.996
5800
5600
5400
5200
5000
4800
4600
4400

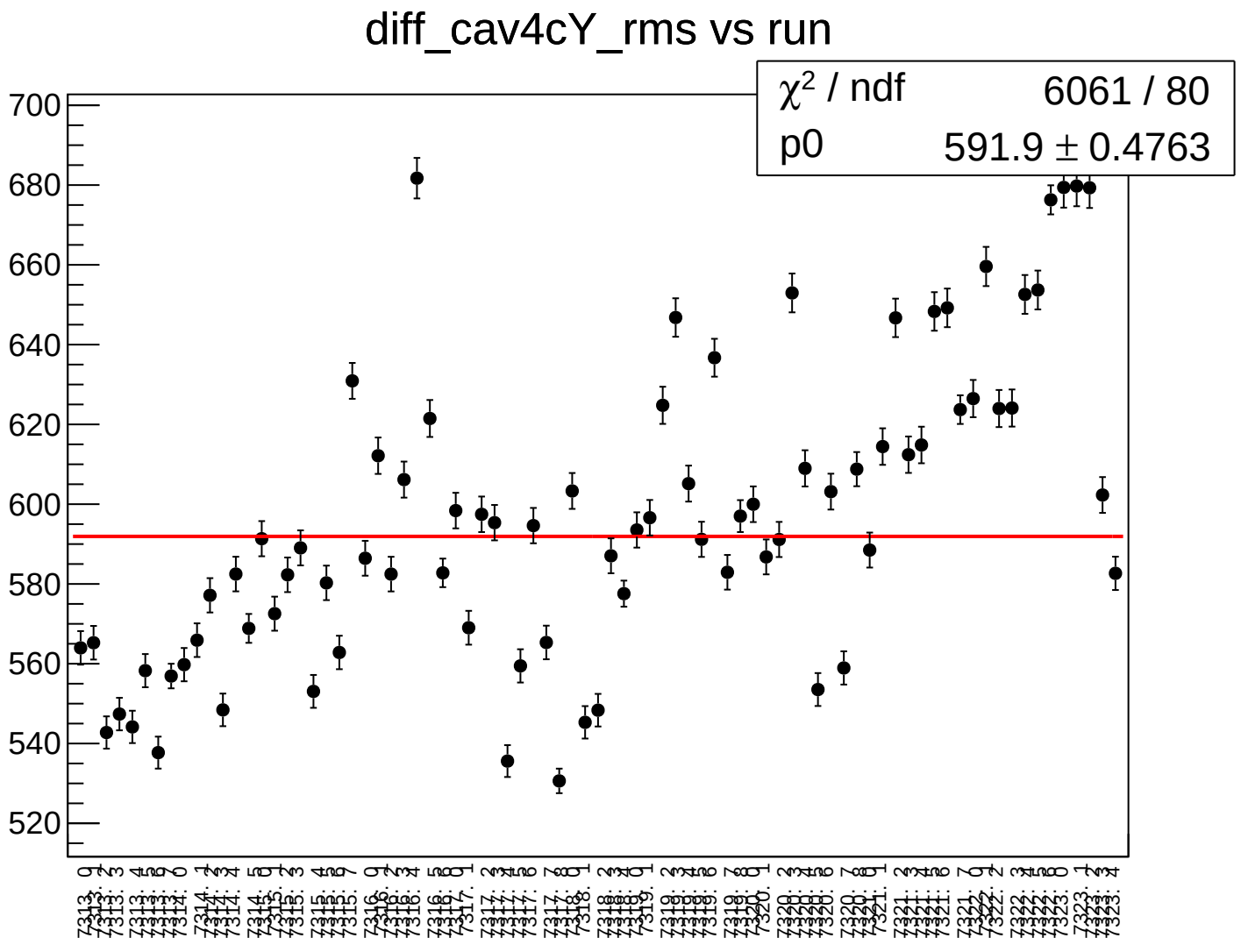

diff_cav4cX_mean vs run
χ² / ndf 65.7 / 80
p0 −0.3983 ± 0.746
pull
Entries 81
Mean −86.59
Std Dev 121.5

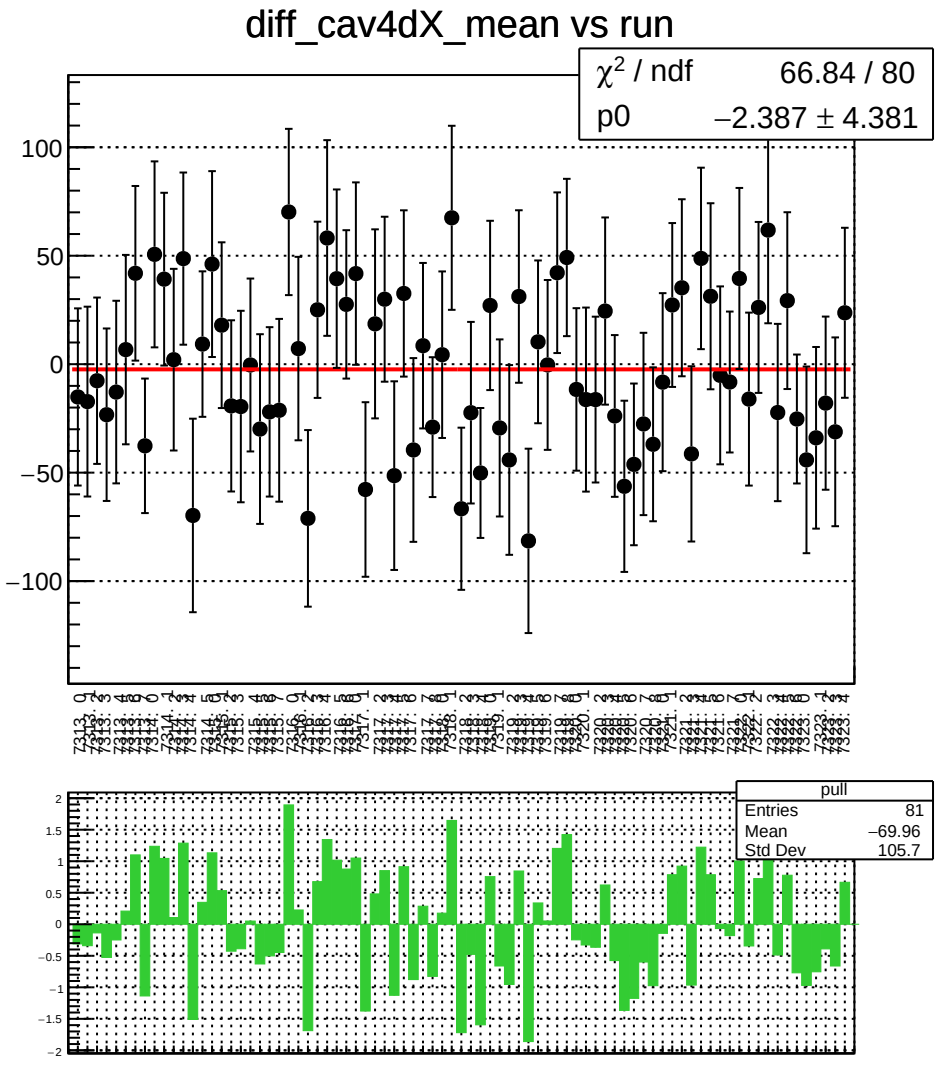

pull1D
Entries 81
Mean 0.01131
Std Dev 0.9005

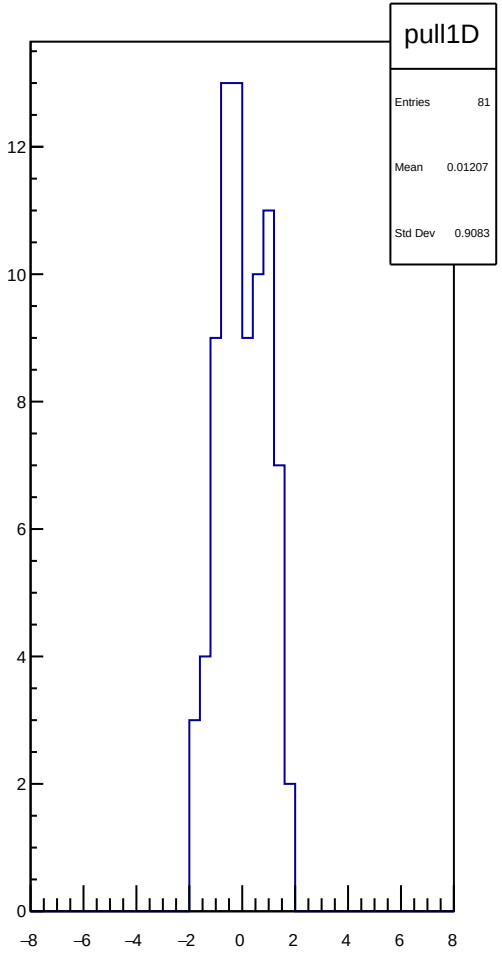

diff_cav4cX_rms vs run
χ² / ndf 3746 / 80
p0 656.1 ± 0.5275
740
720
700
680
660
640
620
600

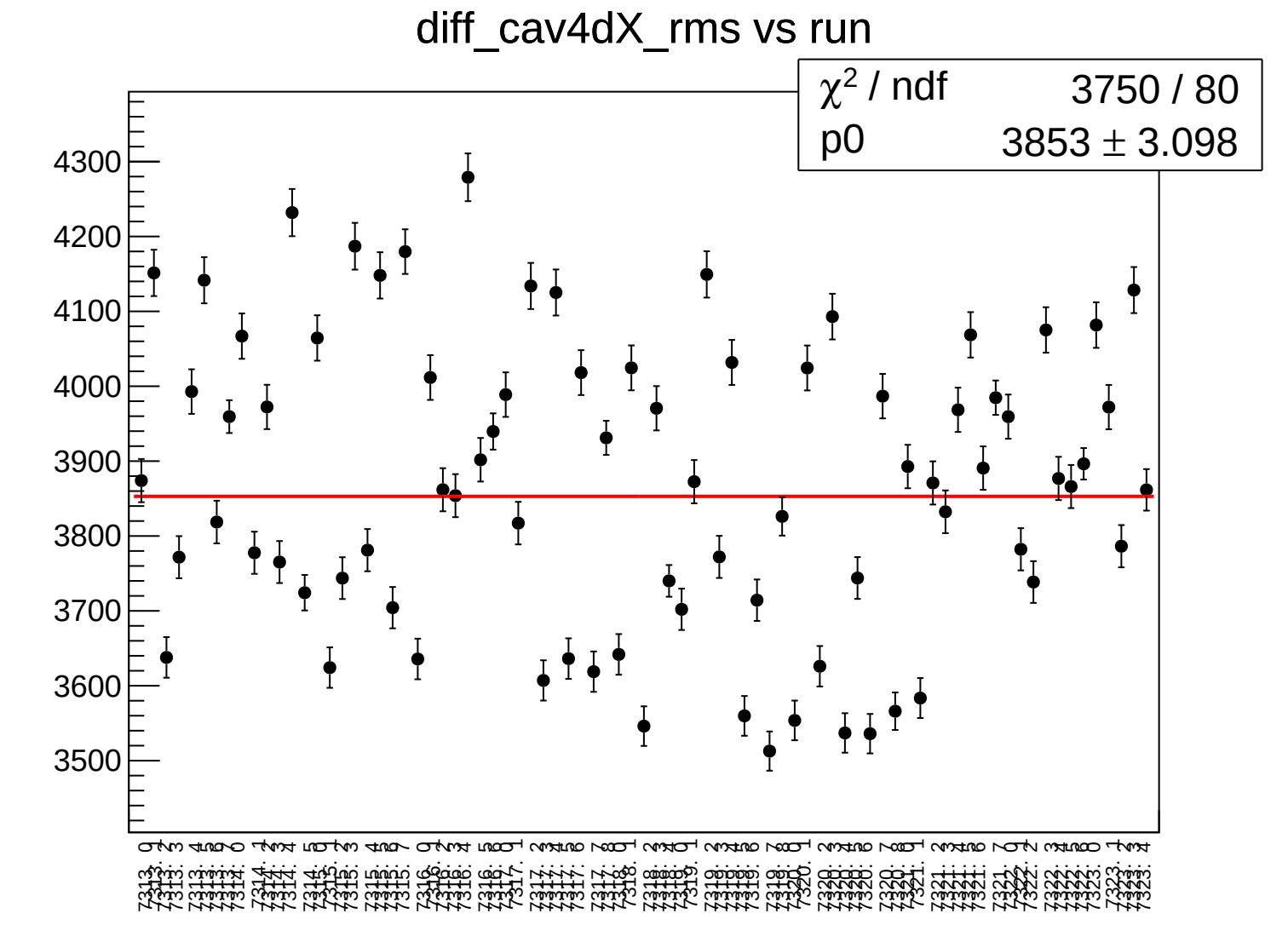

diff_cav4cY_mean vs run
χ^2 / ndf 69.17 / 80
p0 −0.2344 ± 0.6735
pull
Entries 81
Mean 222.8
Std Dev 171.3

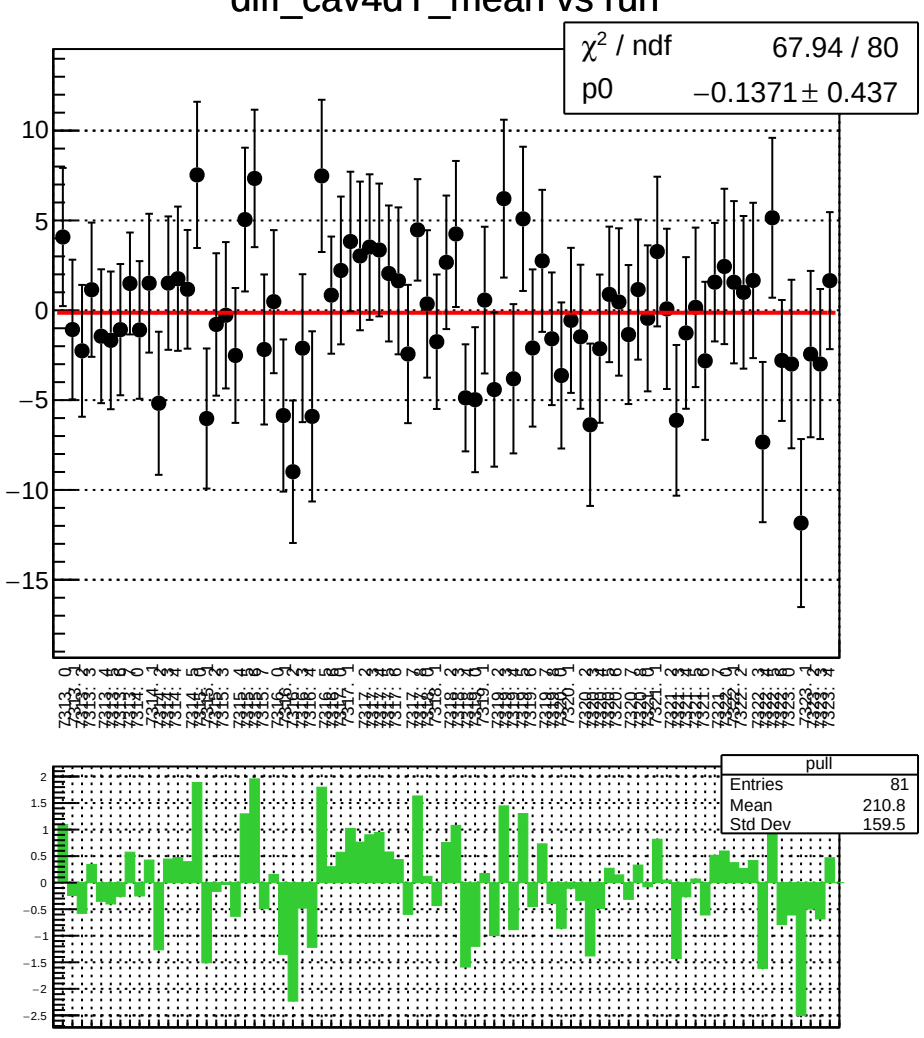

pull1D
Entries 81
Mean −0.01586
Std Dev 0.924

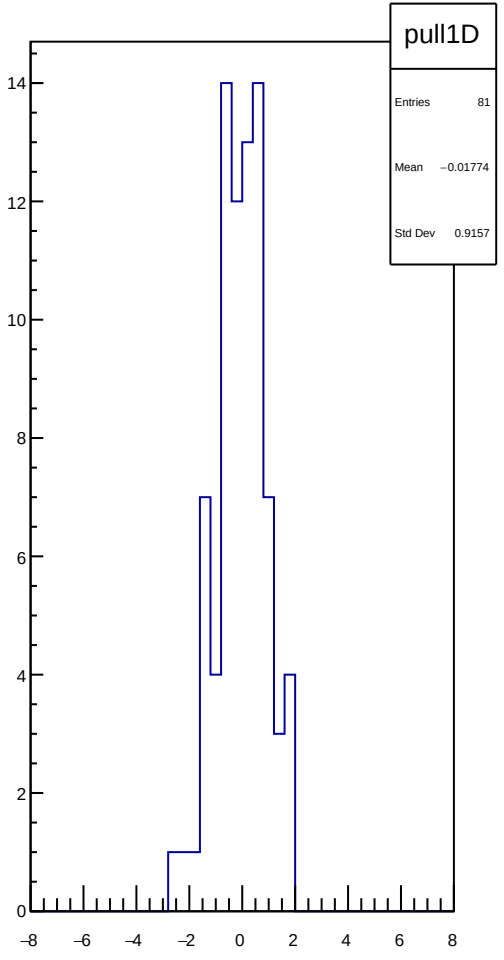

diff_cav4cY_rms vs run
χ² / ndf 6061 / 80
p0 591.9 ± 0.4763
700
680
660
640
620
600
580
560
540
520

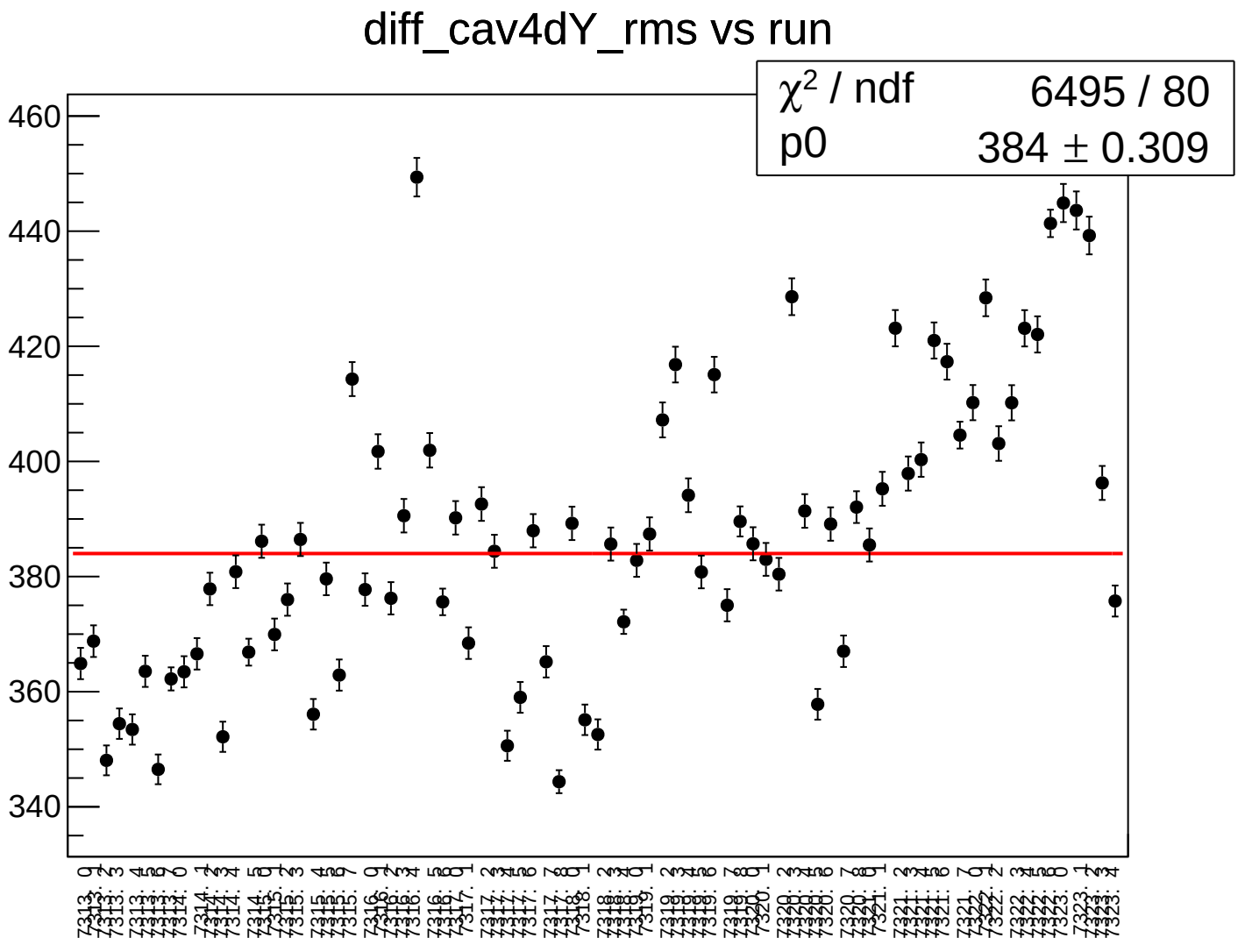

diff_cav4dX_mean vs run
χ² / ndf 66.84 / 80
p0 −2.387 ± 4.381
pull
Entries 81
Mean −69.96
Std Dev 105.7

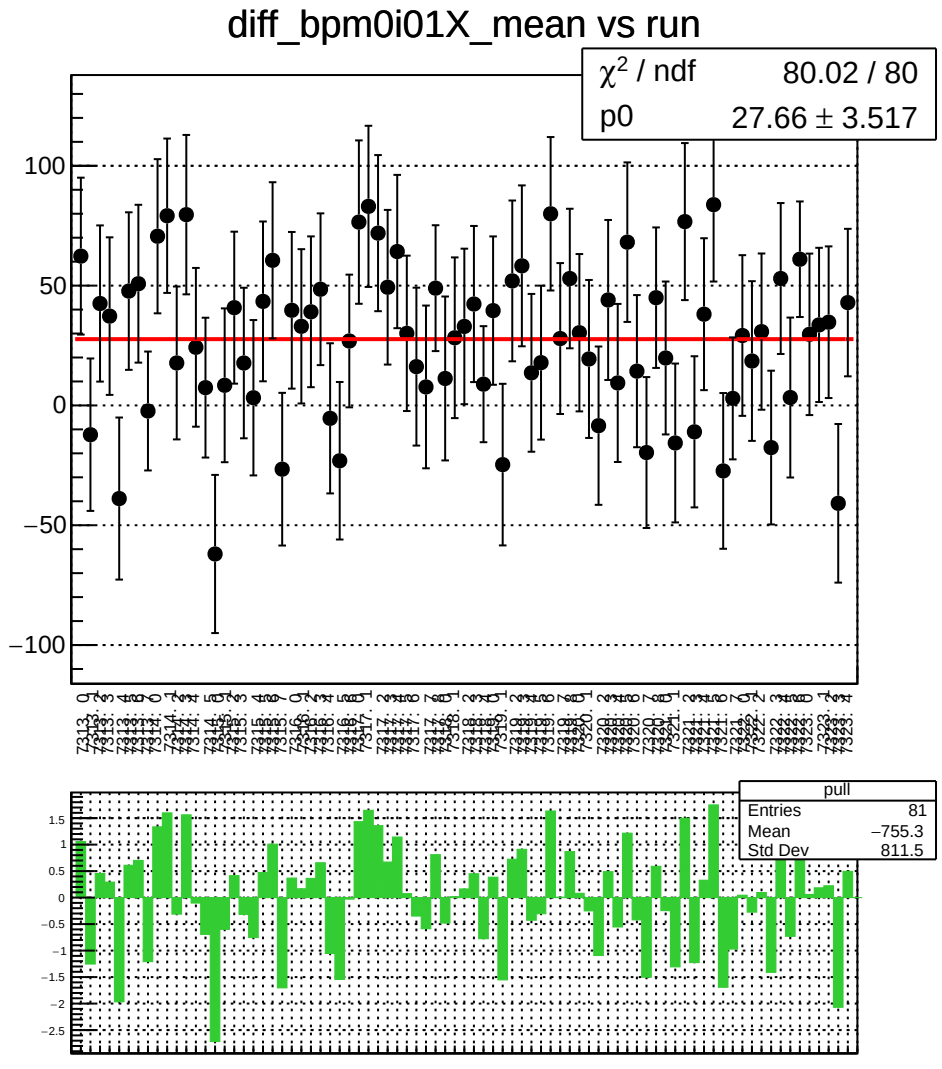

pull1D
Entries 81
Mean 0.01207
Std Dev 0.9083

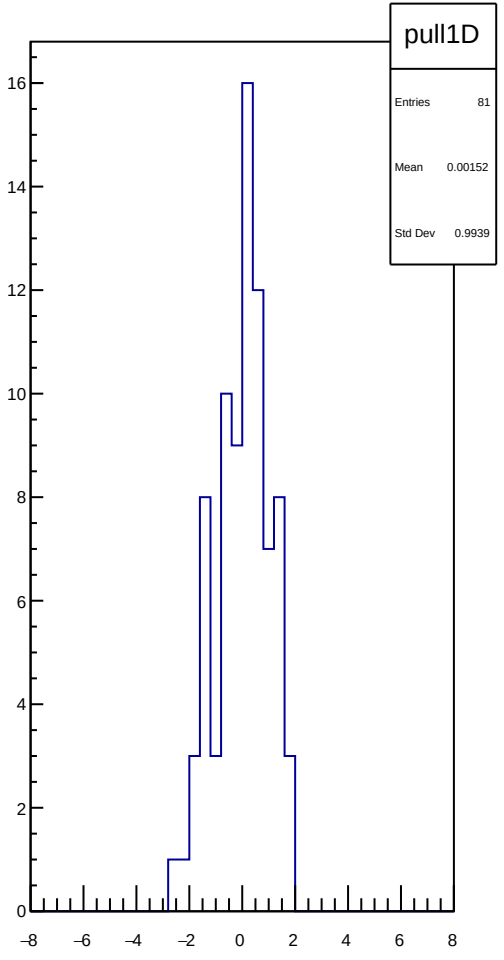

diff_cav4dX_rms vs run
χ² / ndf 3750 / 80
p0 3853 ± 3.098
4300
4200
4100
4000
3900
3800
3700
3600
3500

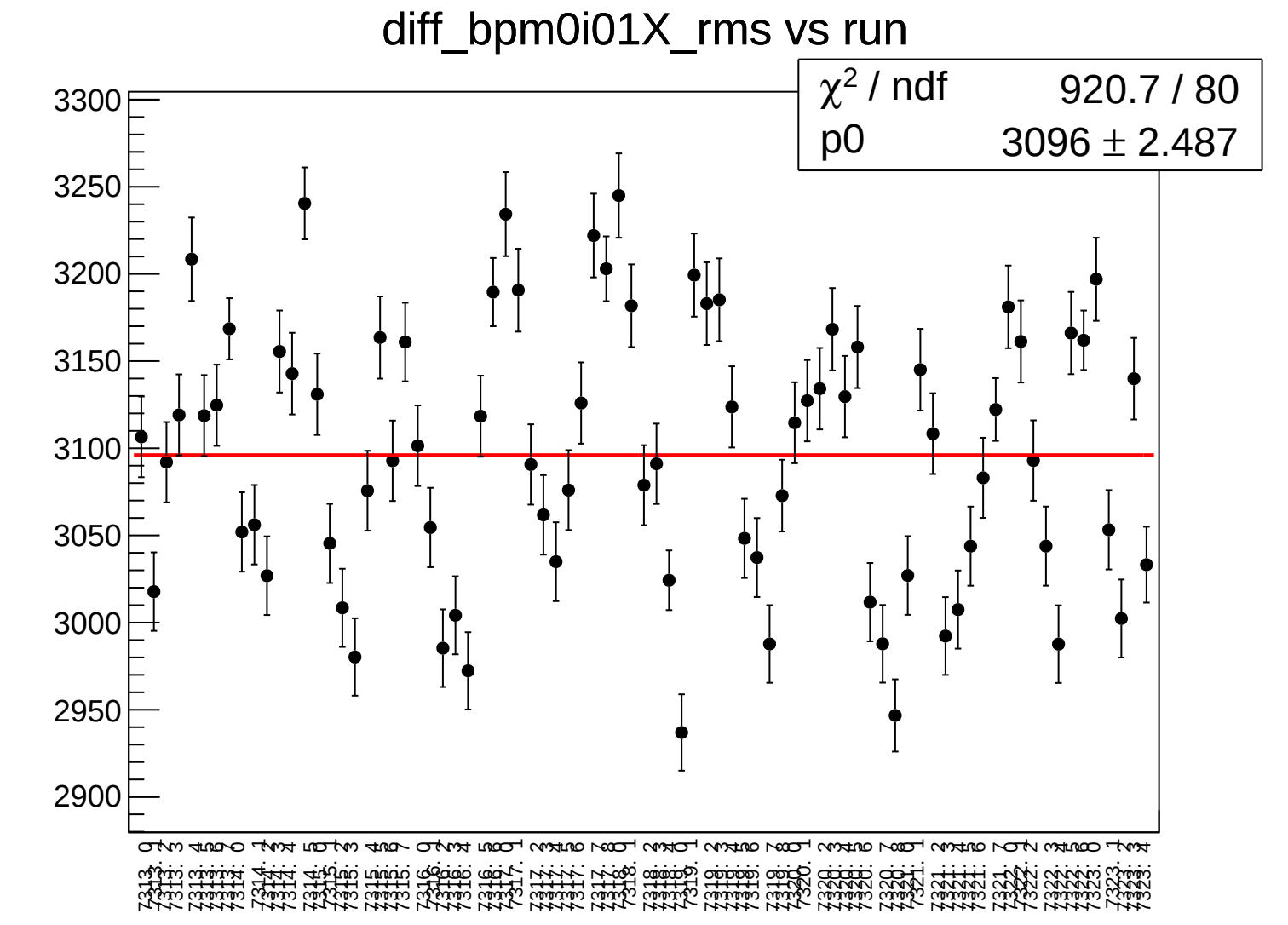

diff_cav4dY_mean vs run
χ² / ndf 67.94 / 80
p0 −0.1371 ± 0.437
pull
Entries 81
Mean 210.8
Std Dev 159.5

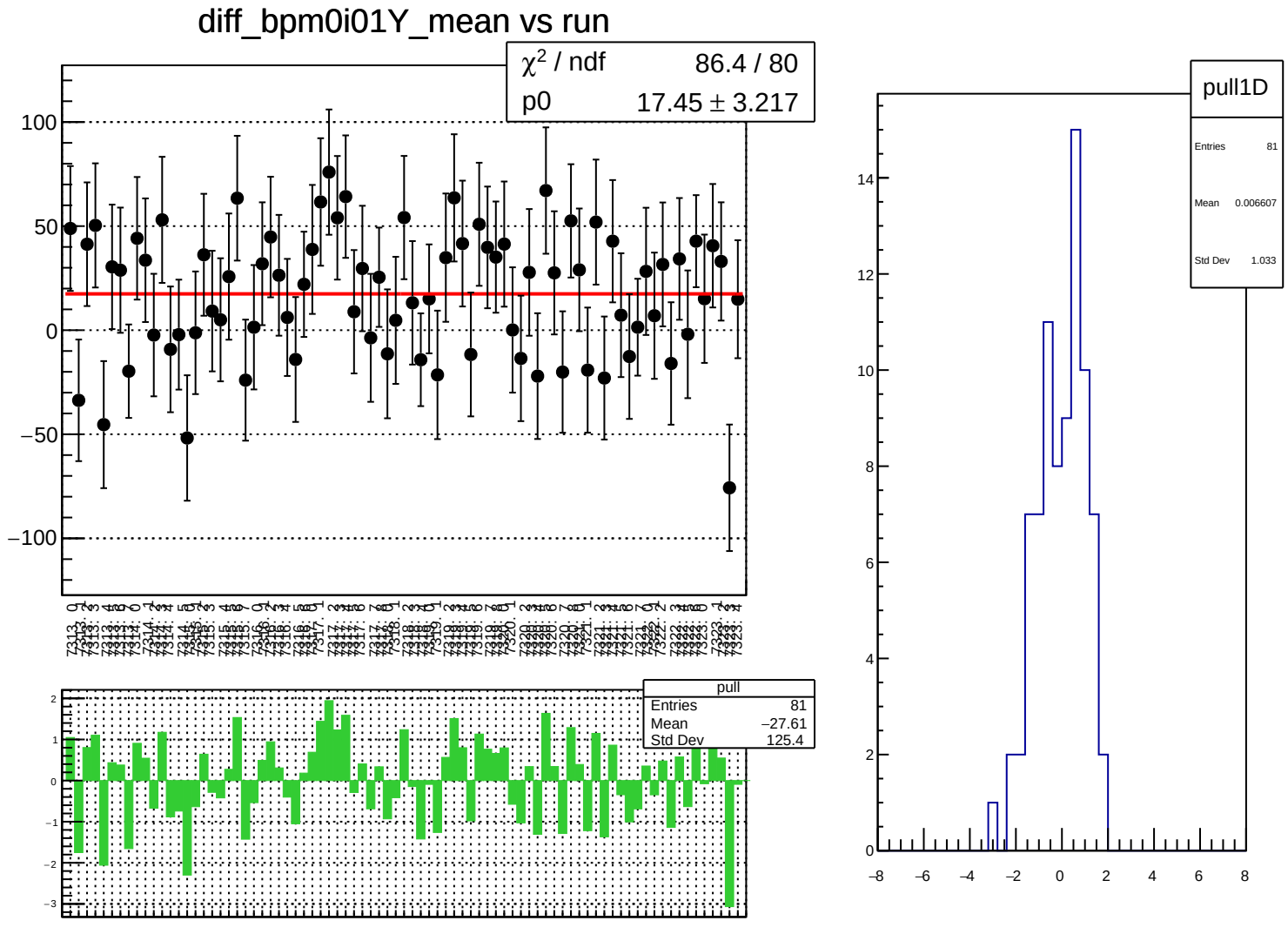

pull1D
Entries 81
Mean −0.01774
Std Dev 0.9157

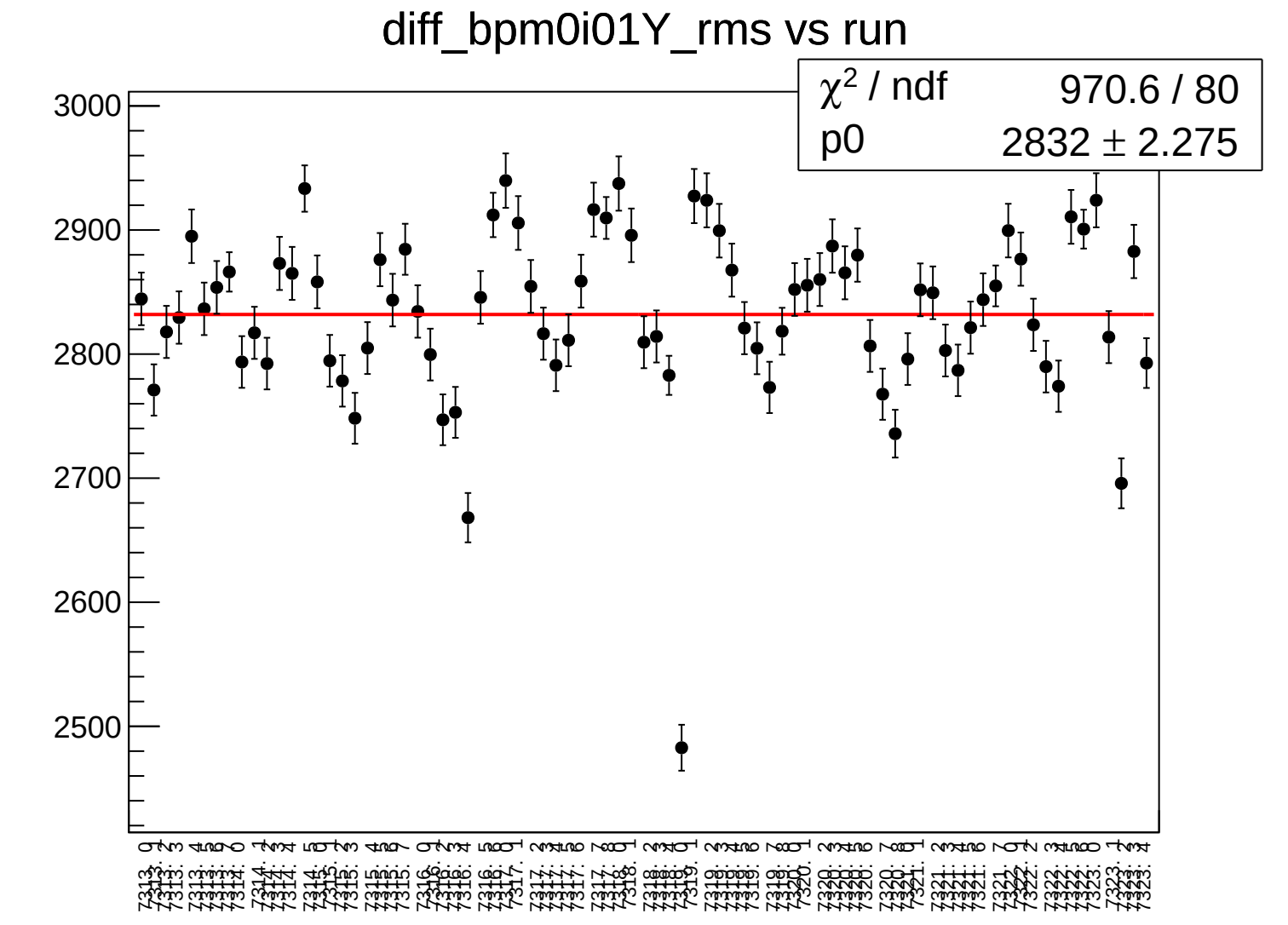

diff_cav4dY_rms vs run
χ² / ndf 6495 / 80
p0 384 ± 0.309
460
440
420
400
380
360
340

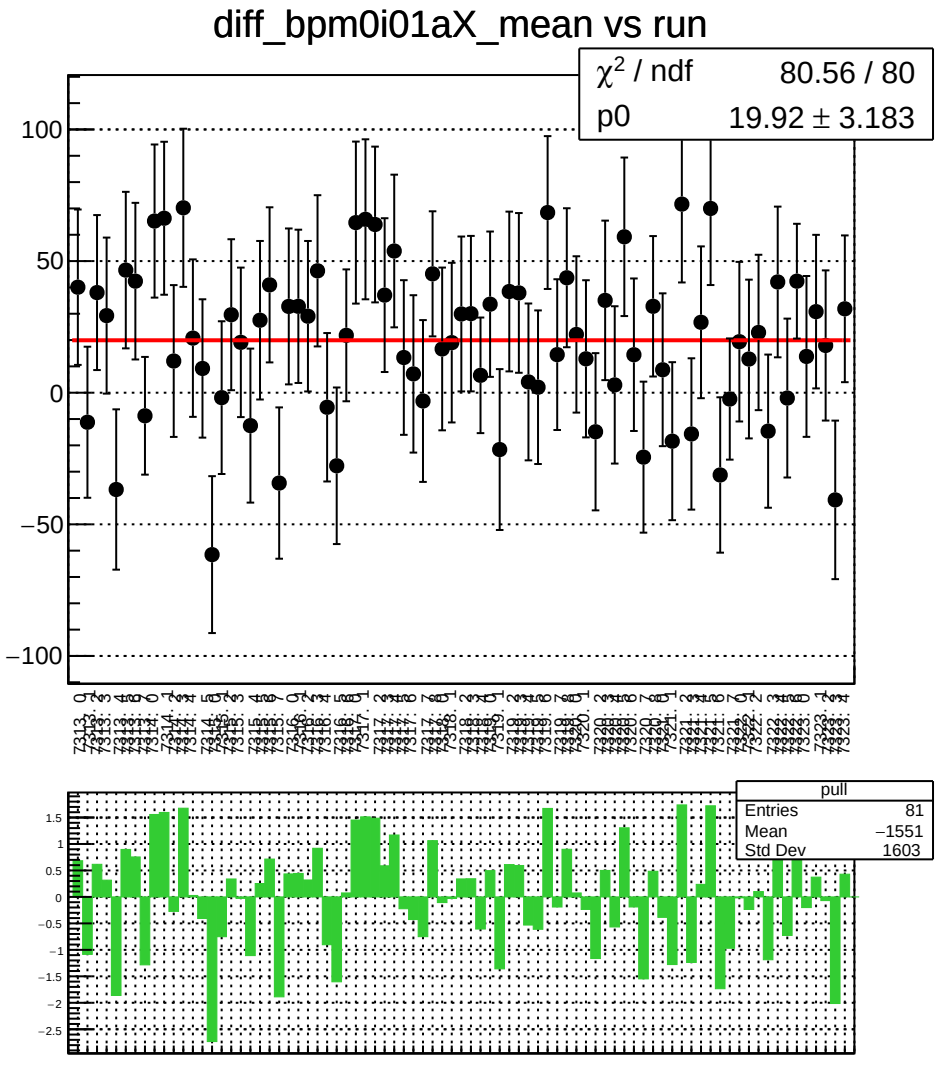

diff_bpm0i01X_mean vs run
χ^2 / ndf 80.02 / 80
p0 27.66 ± 3.517
pull
Entries 81
Mean −755.3
Std Dev 811.5

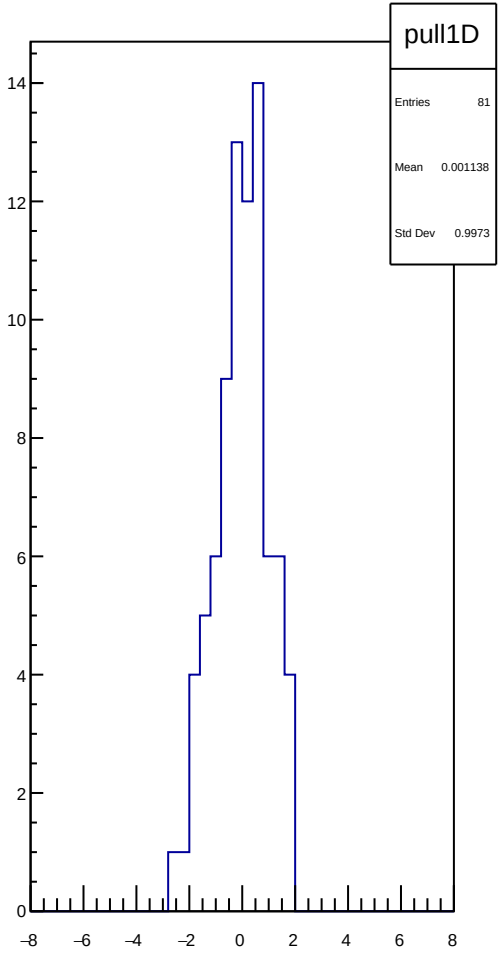

pull1D
Entries 81
Mean 0.00152
Std Dev 0.9939

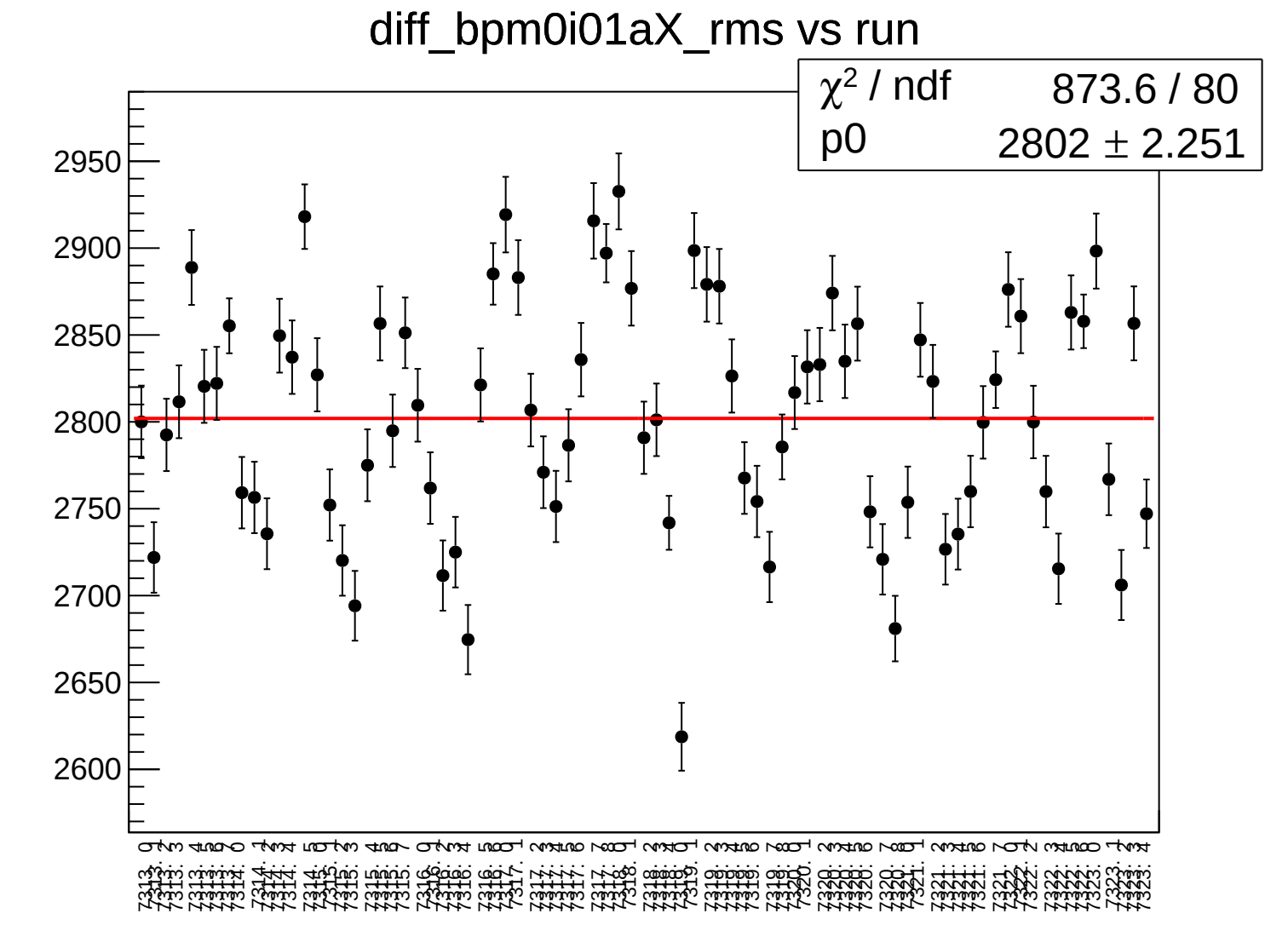

diff_bpm0i01X_rms vs run
χ² / ndf 920.7 / 80
p0 3096 ± 2.487
3300
3250
3200
3150
3100
3050
3000
2950
2900

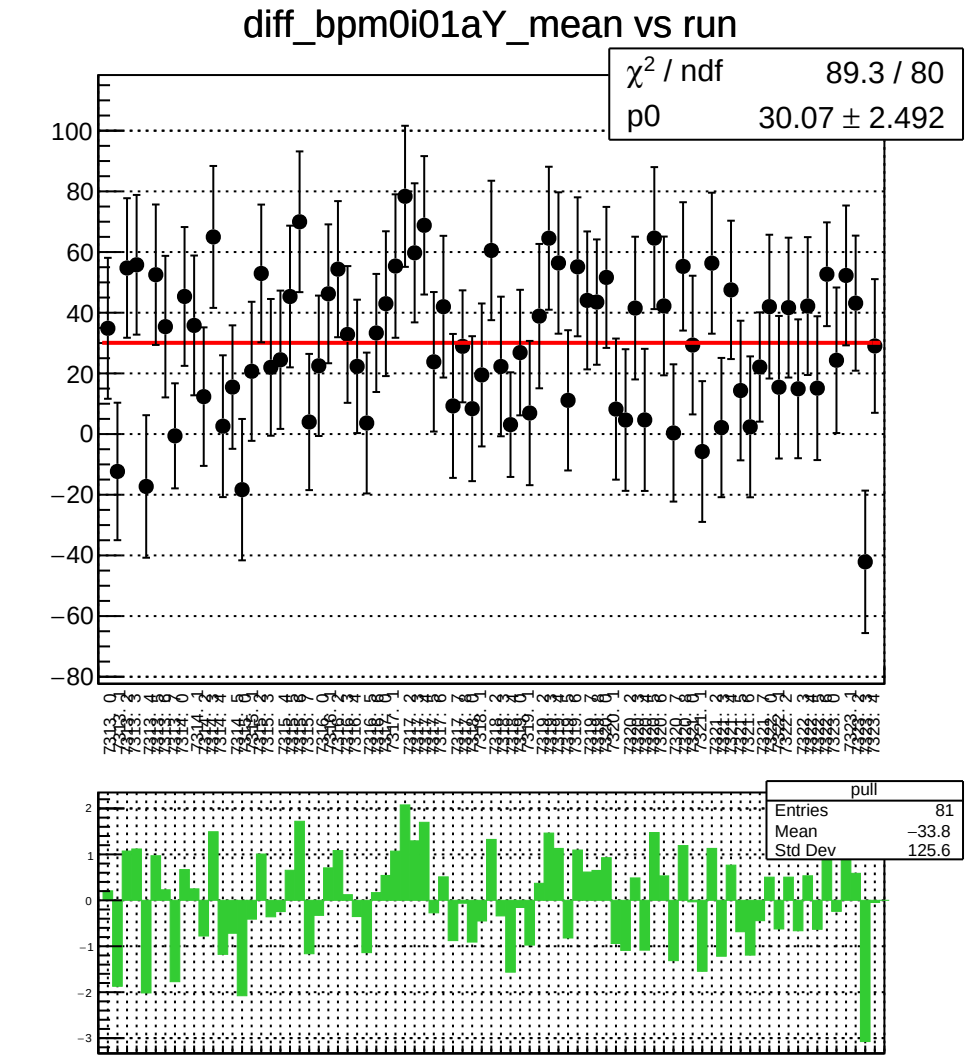

diff_bpm0i01Y_mean vs run
χ² / ndf 86.4 / 80
p0 17.45 ± 3.217
pull
Entries 81
Mean −27.61
Std Dev 125.4
pull1D
Entries 81
Mean 0.006607
Std Dev 1.033

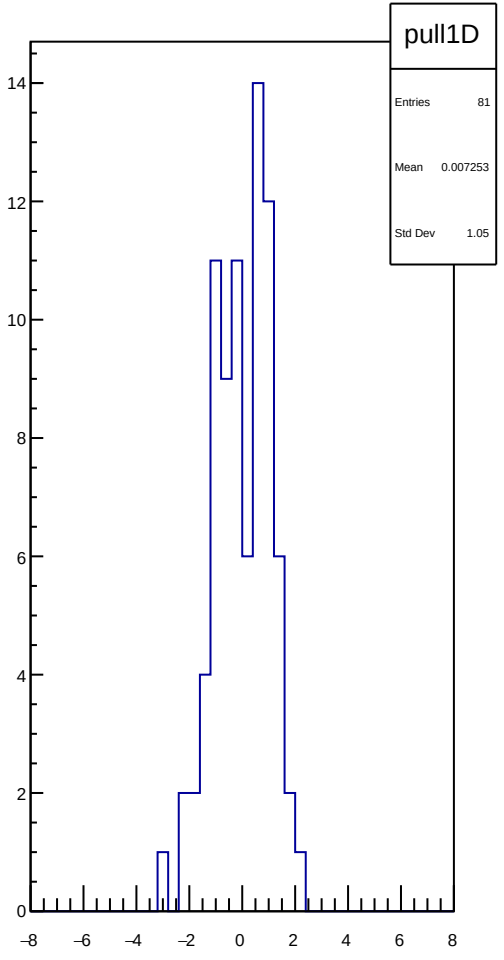

diff_bpm0i01Y_rms vs run
χ^2 / ndf 970.6 / 80
p0 2832 ± 2.275
3000
2900
2800
2700
2600
2500

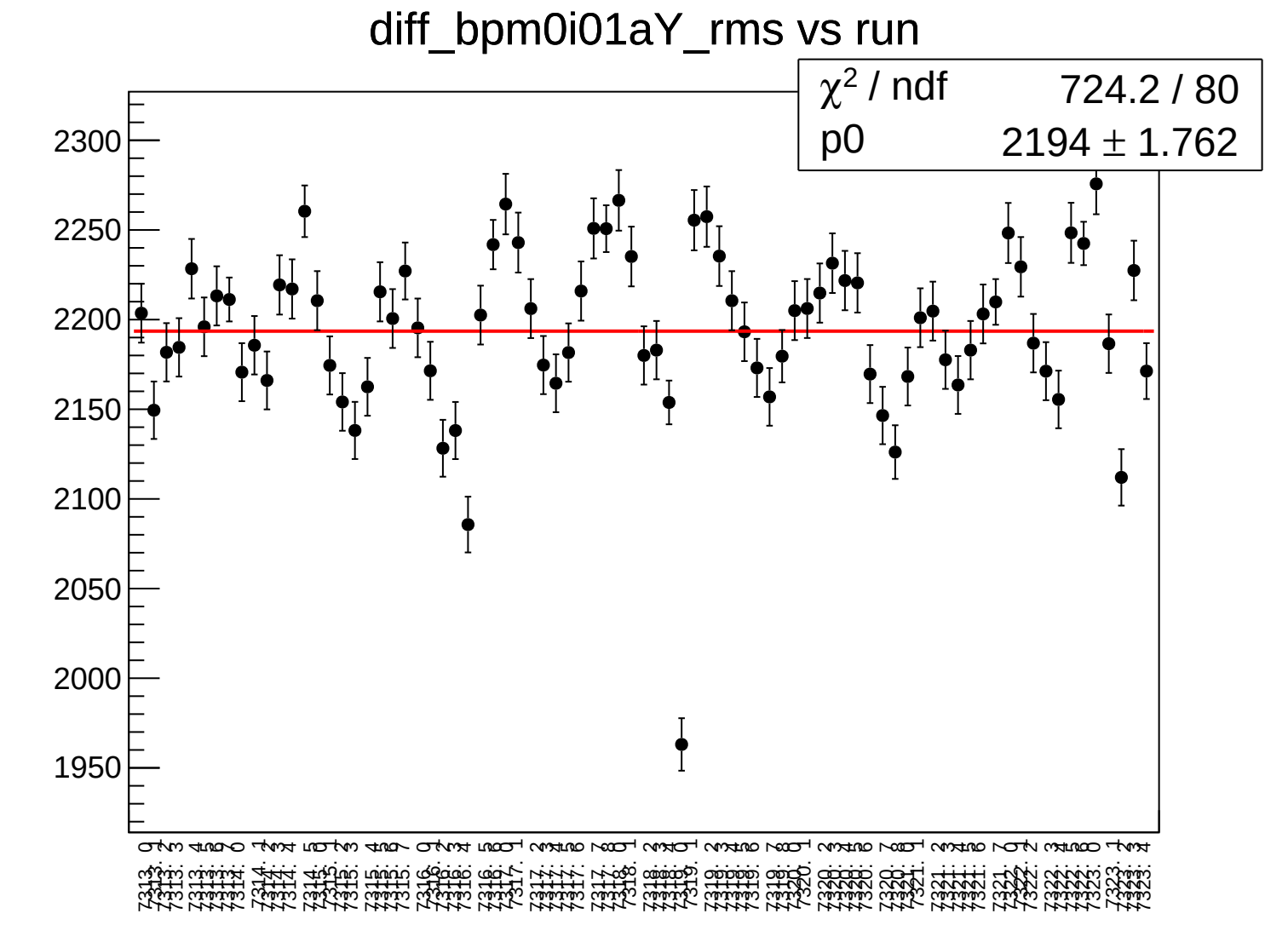

diff_bpm0i01aX_mean vs run
χ² / ndf 80.56 / 80
p0 19.92 ± 3.183
pull
Entries 81
Mean −1551
Std Dev 1603

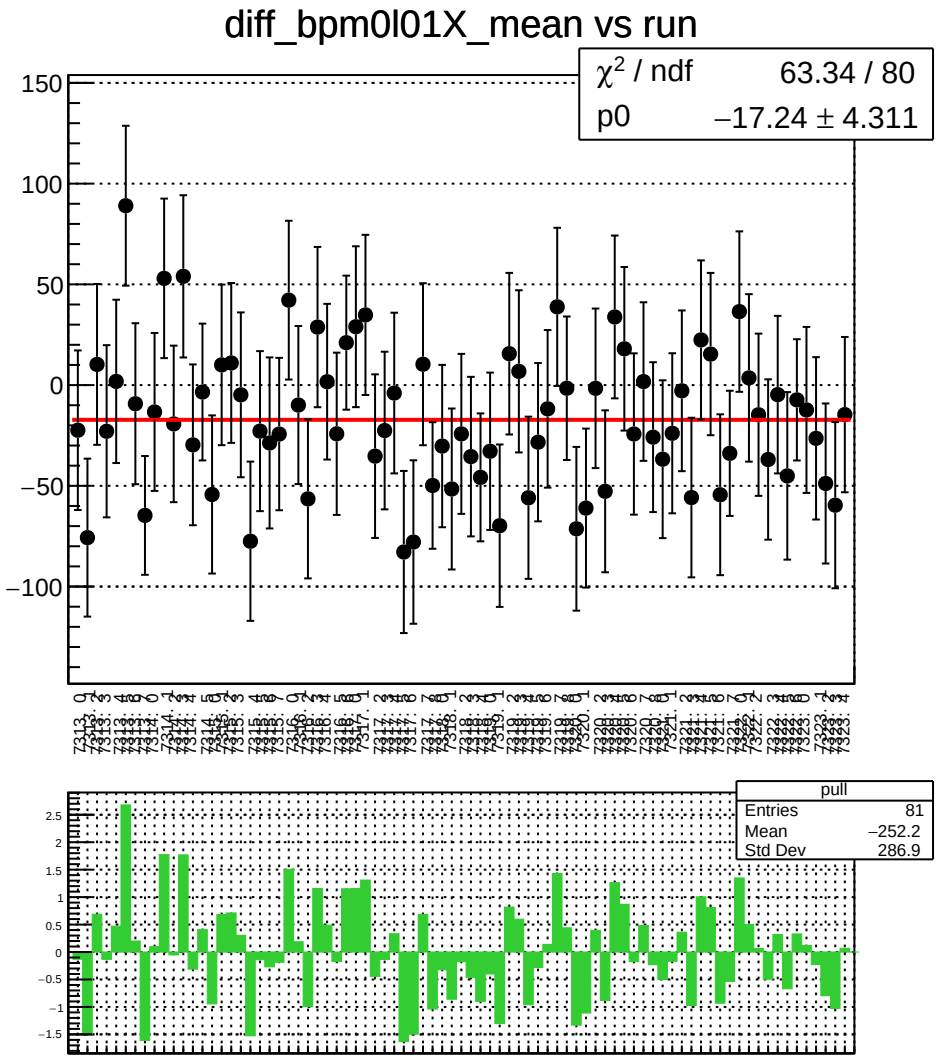

pull1D
Entries 81
Mean 0.001138
Std Dev 0.9973

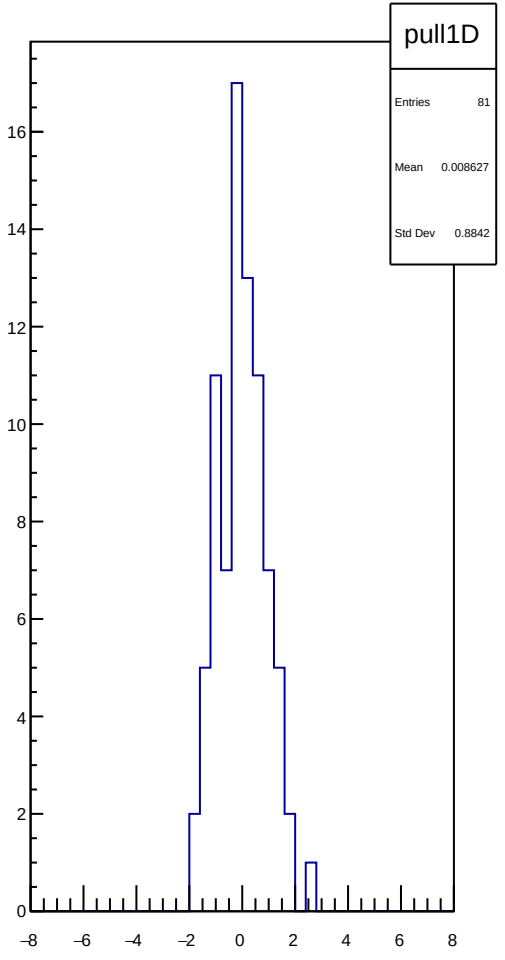

diff_bpm0i01aX_rms vs run
χ^2 / ndf 873.6 / 80
p0 2802 ± 2.251
2950
2900
2850
2800
2750
2700
2650
2600

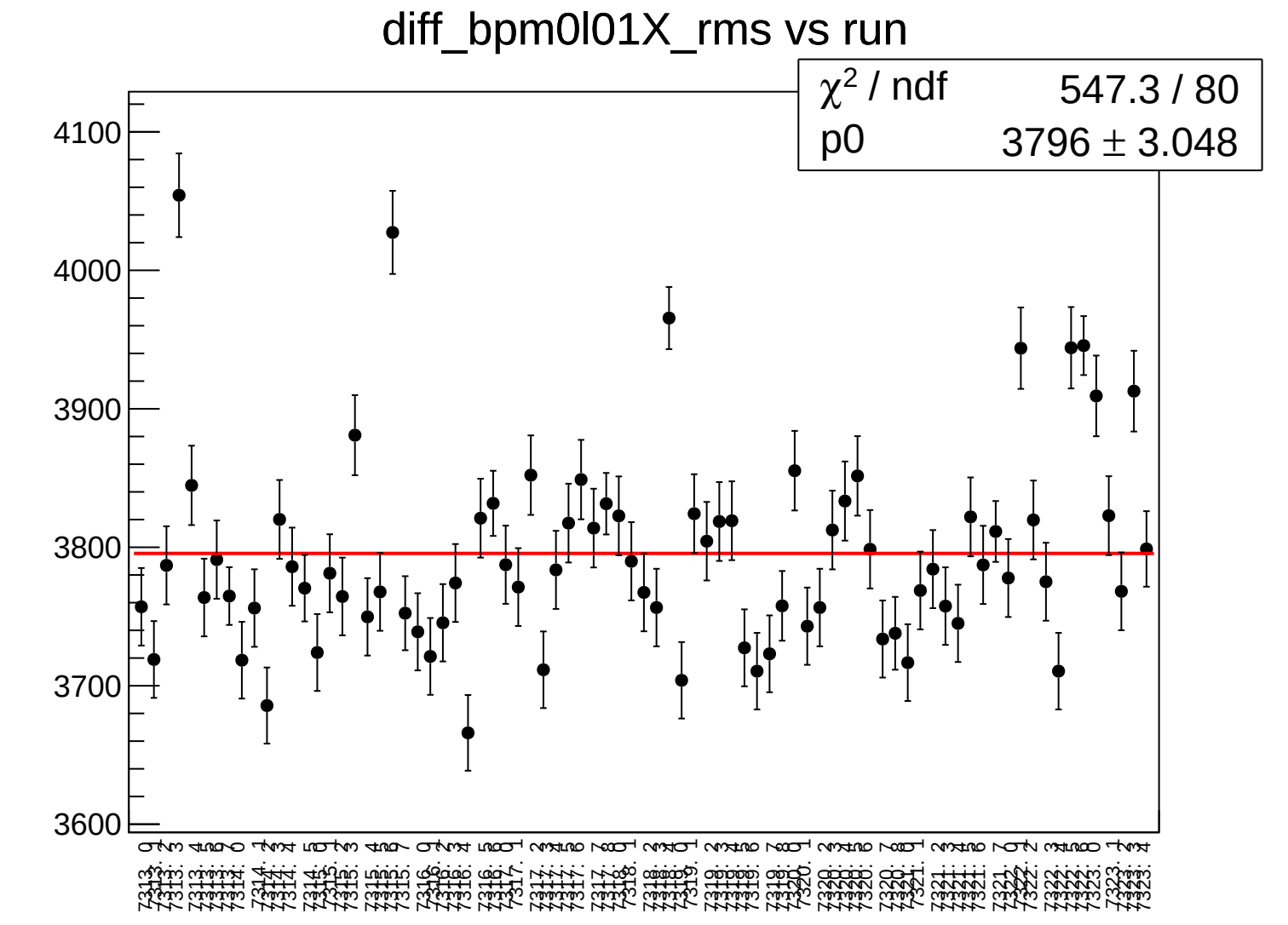

diff_bpm0i01aY_mean vs run
χ² / ndf 89.3 / 80
p0 30.07 ± 2.492
pull
Entries 81
Mean −33.8
Std Dev 125.6

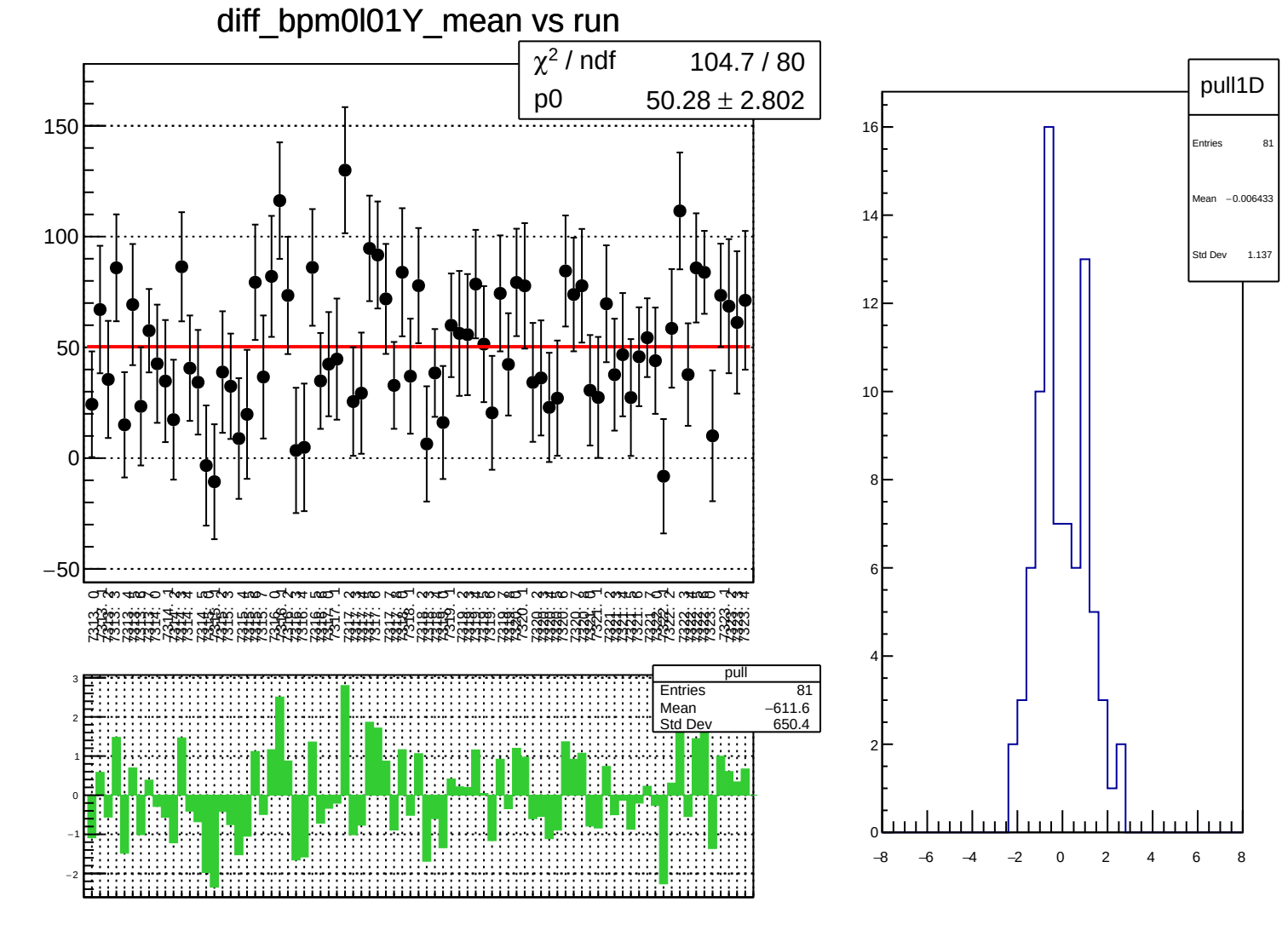

pull1D
Entries 81
Mean 0.007253
Std Dev 1.05

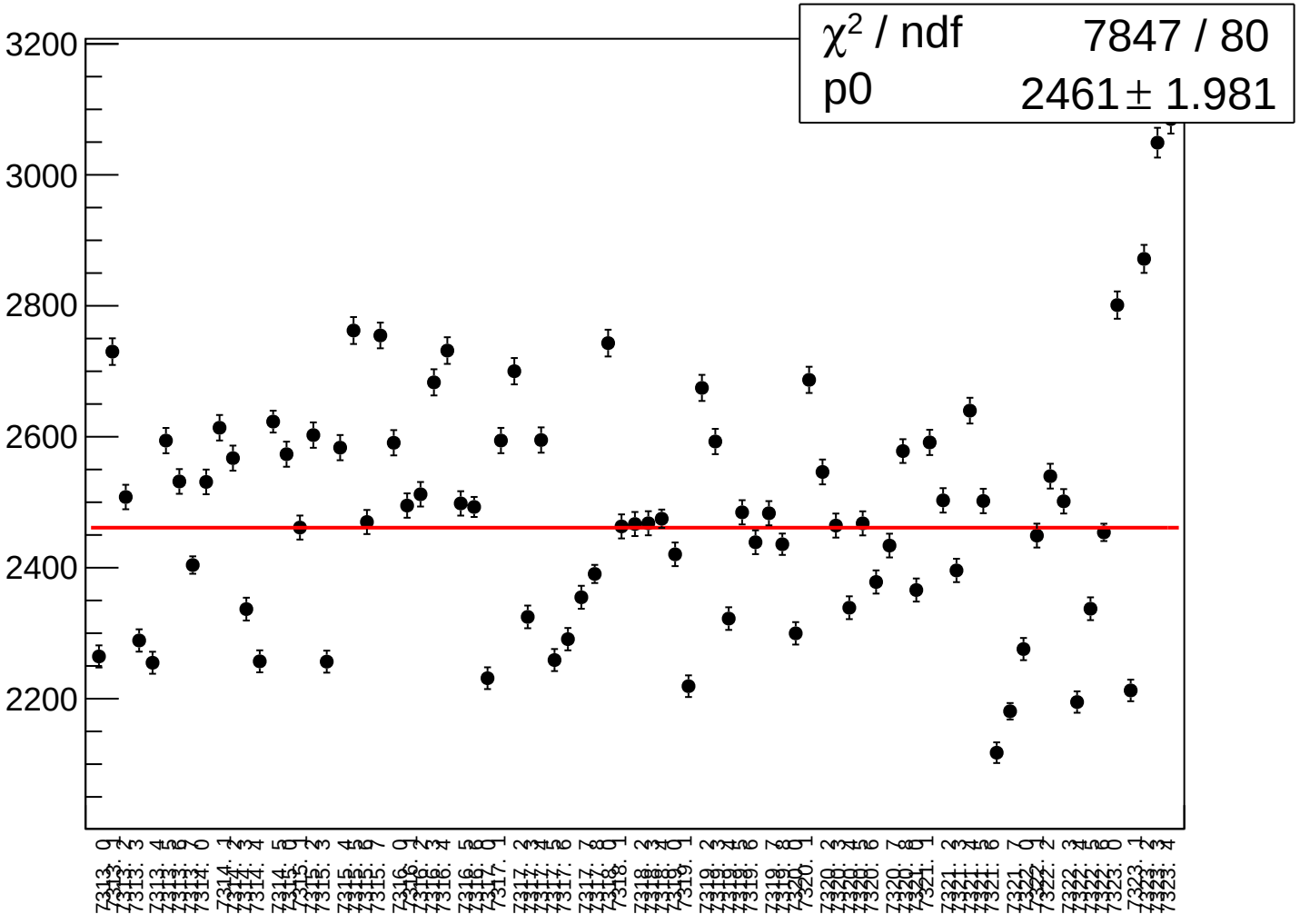

diff_bpm0i01aY_rms vs run
χ^2 / ndf 724.2 / 80
p0 2194 ± 1.762
2300
2250
2200
2150
2100
2050
2000
1950

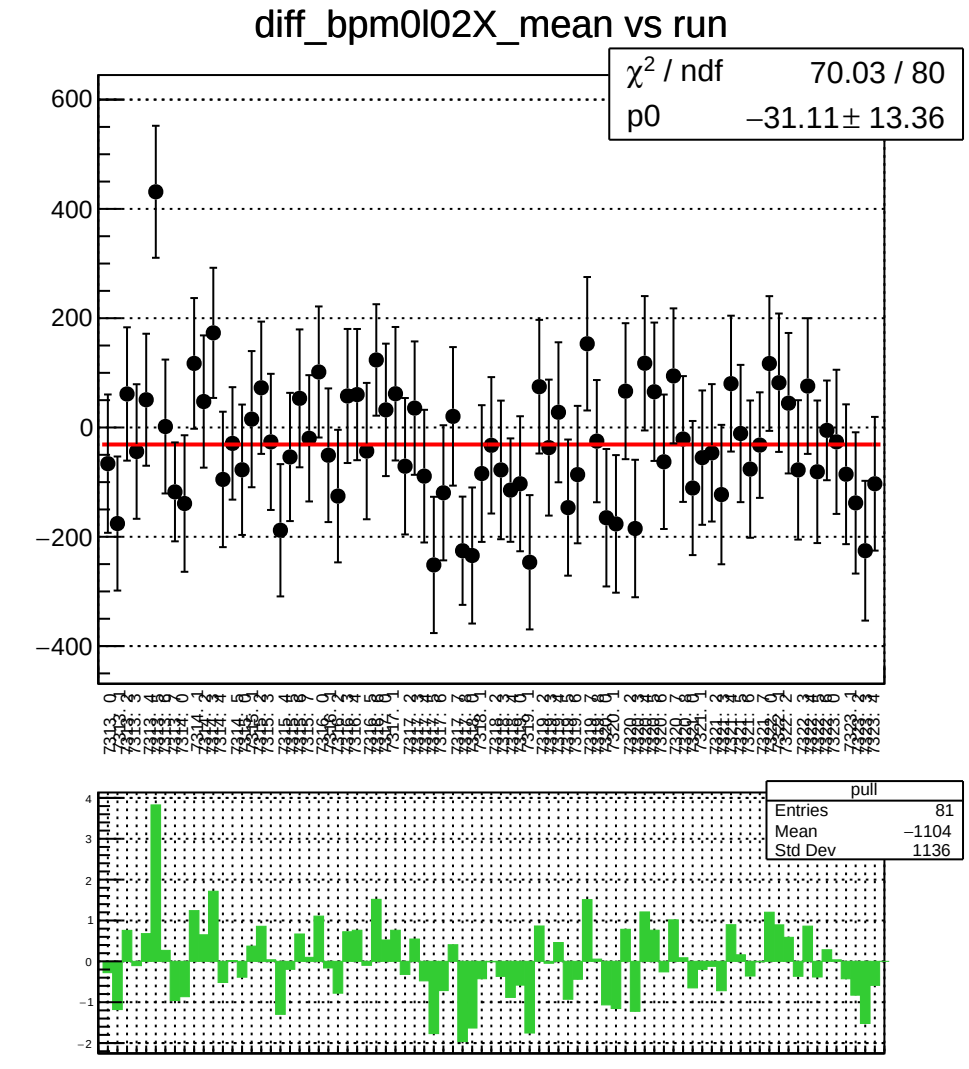

diff_bpm0l01X_mean vs run
χ² / ndf 63.34 / 80
p0 −17.24 ± 4.311
150
100
50
0
−50
−100
pull
Entries 81
Mean −252.2
Std Dev 286.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

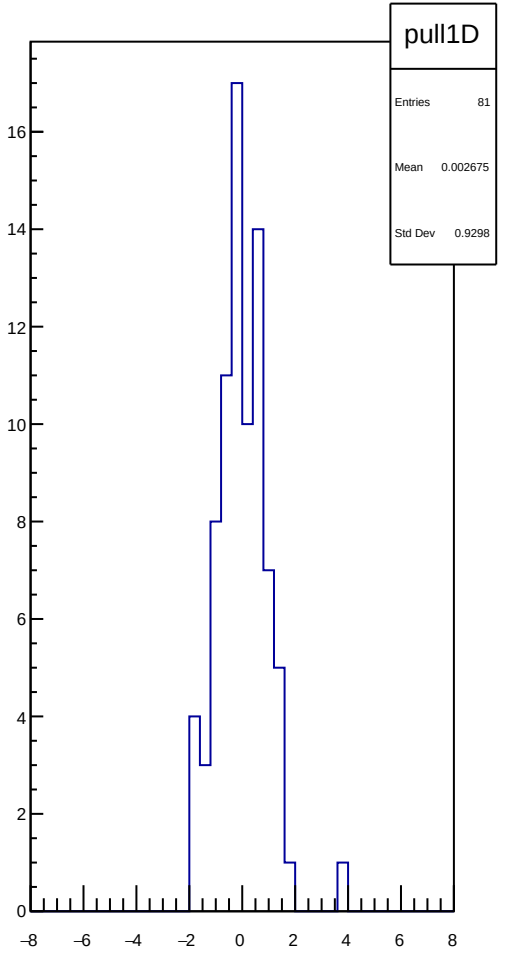

pull1D
Entries 81
Mean 0.008627
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

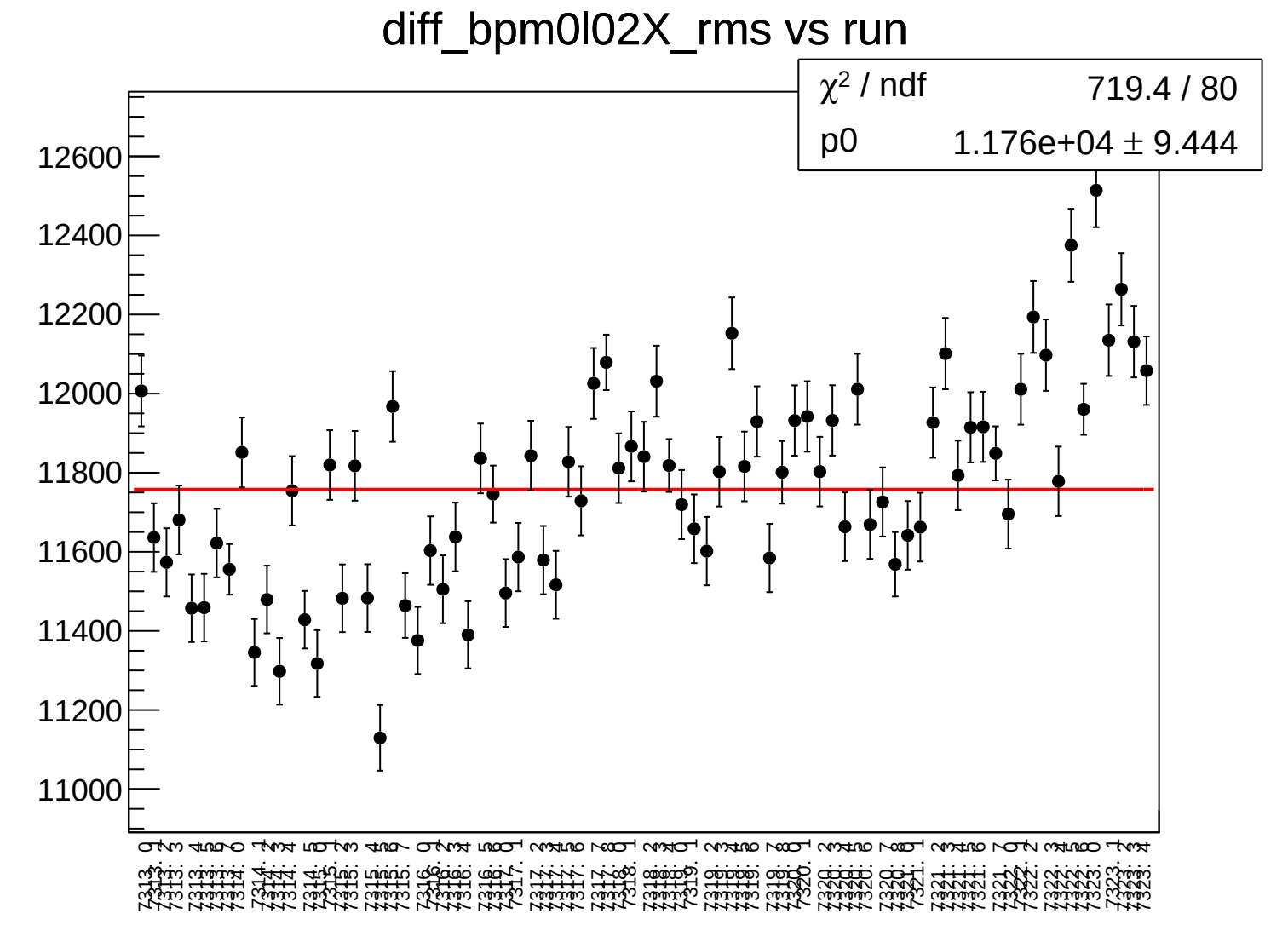

diff_bpm0l01X_rms vs run
χ² / ndf 547.3 / 80
p0 3796 ± 3.048
4100
4000
3900
3800
3700
3600

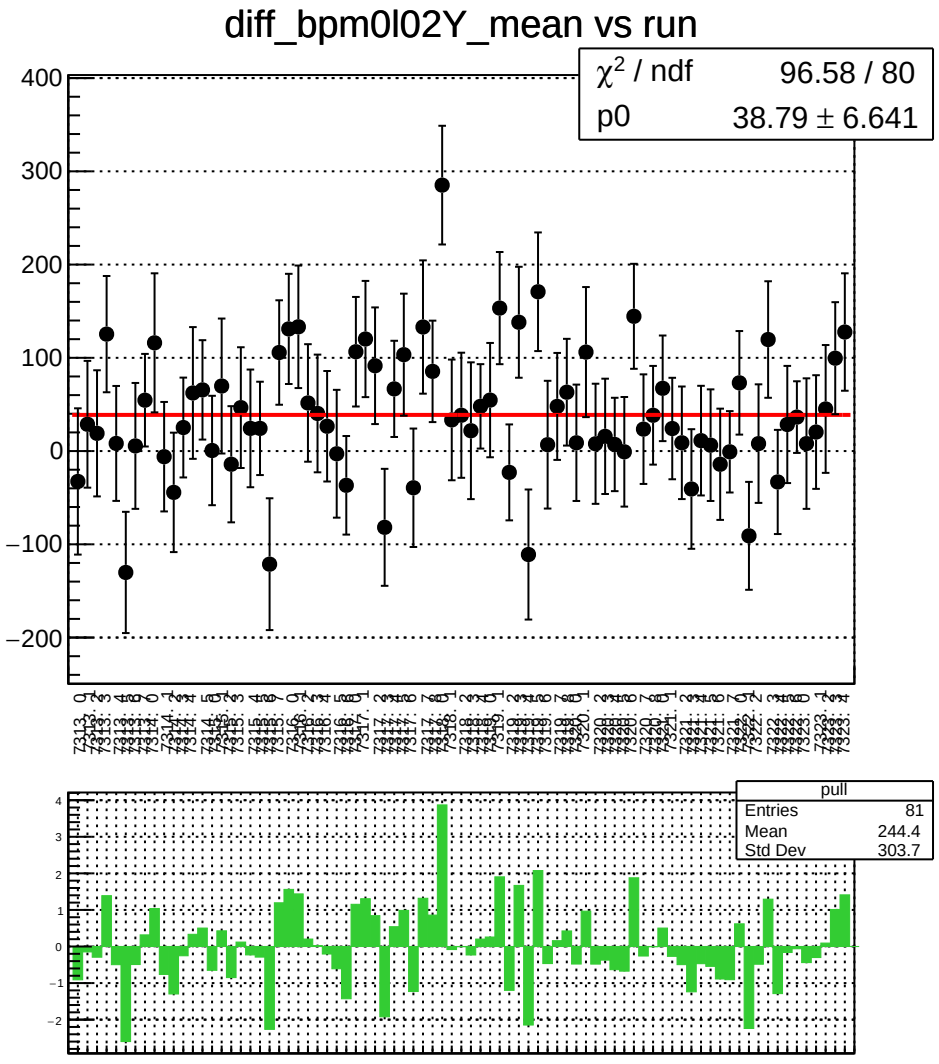

diff_bpm0l01Y_mean vs run
χ² / ndf 104.7 / 80
p0 50.28 ± 2.802
pull
Entries 81
Mean −611.6
Std Dev 650.4
pull1D
Entries 81
Mean −0.006433
Std Dev 1.137

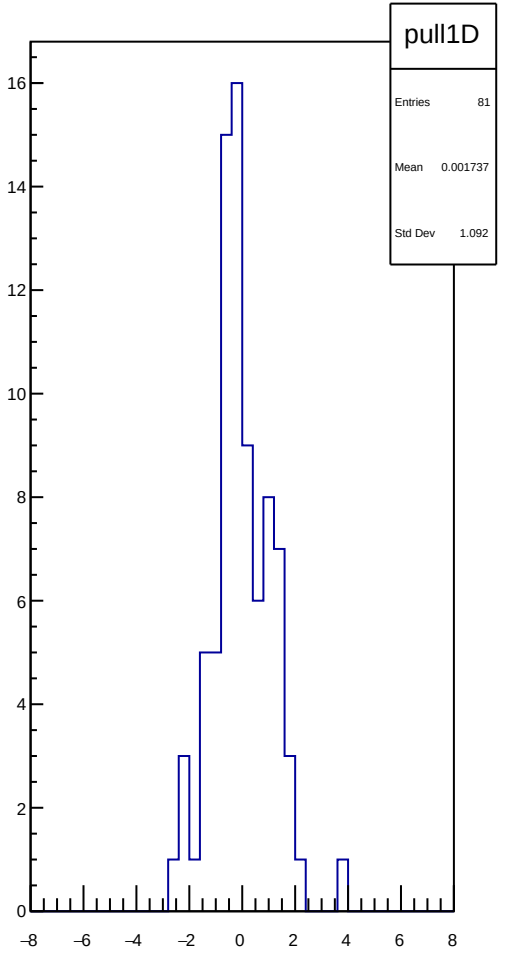

diff_bpm0l01Y_rms vs run
χ² / ndf 7847 / 80
p0 2461 ± 1.981
3200
3000
2800
2600
2400
2200

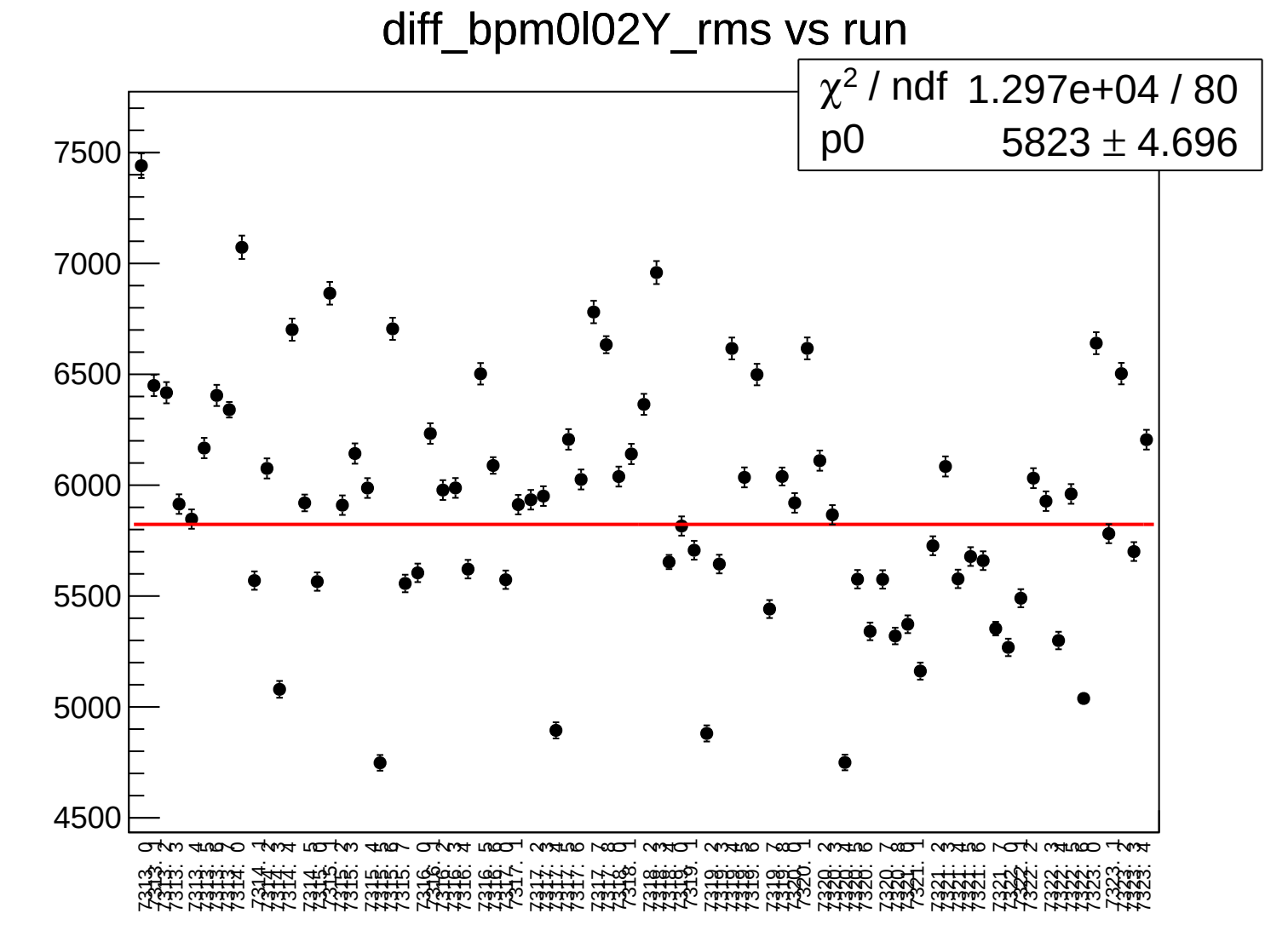

diff_bpm0l02X_mean vs run
χ² / ndf 70.03 / 80
p0 −31.11 ± 13.36
pull
Entries 81
Mean −1104
Std Dev 1136

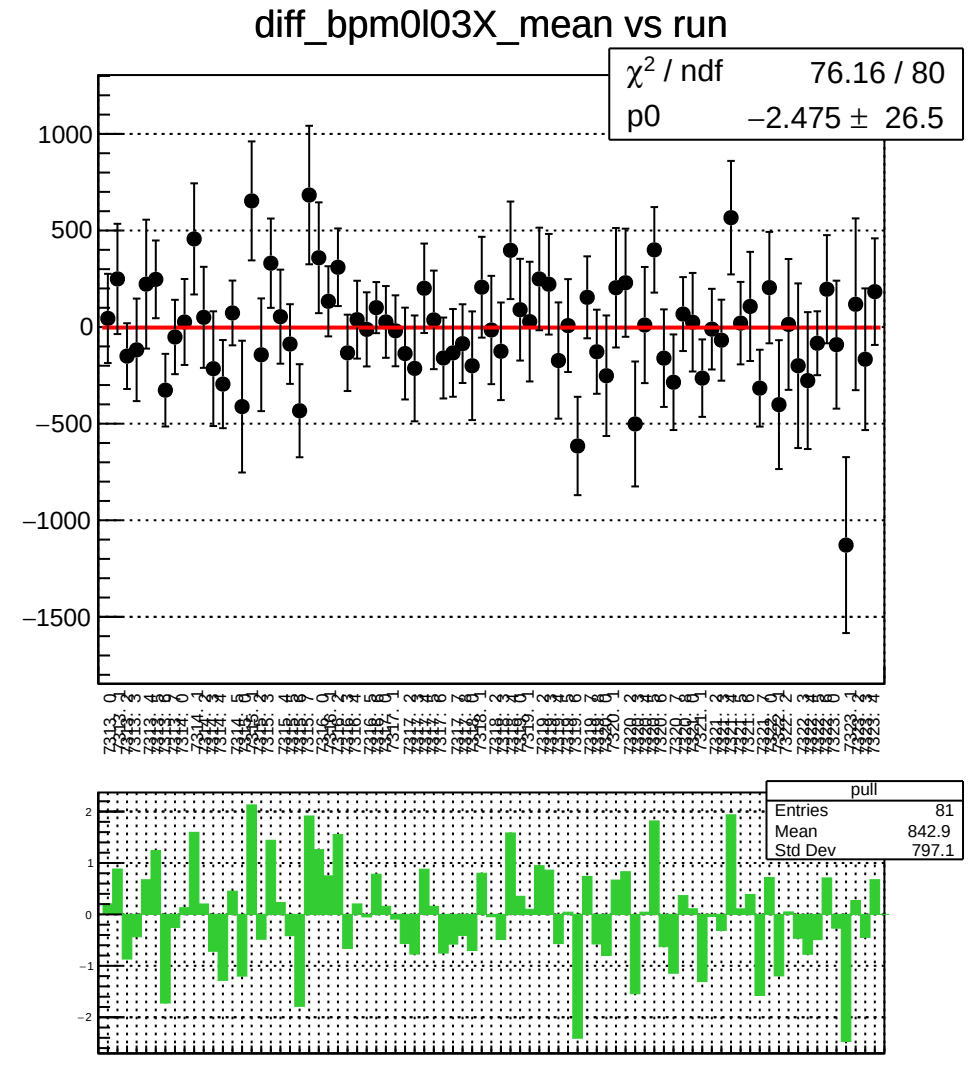

pull1D
Entries 81
Mean 0.002675
Std Dev 0.9298

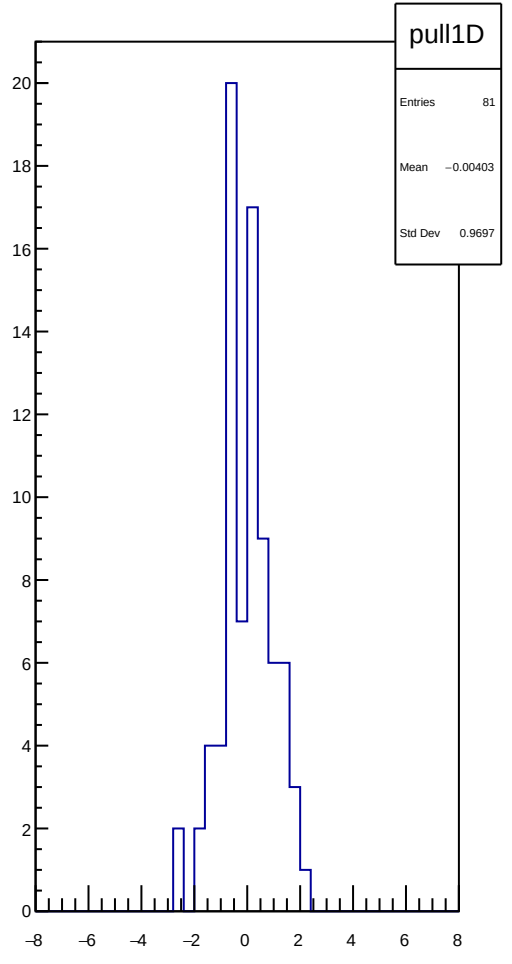

diff_bpm0l02X_rms vs run
χ² / ndf 719.4 / 80
p0 1.176e+04 ± 9.444
12600
12400
12200
12000
11800
11600
11400
11200
11000


diff_bpm0l02Y_mean vs run
χ^2 / ndf 96.58 / 80
p0 38.79 ± 6.641
pull
Entries 81
Mean 244.4
Std Dev 303.7

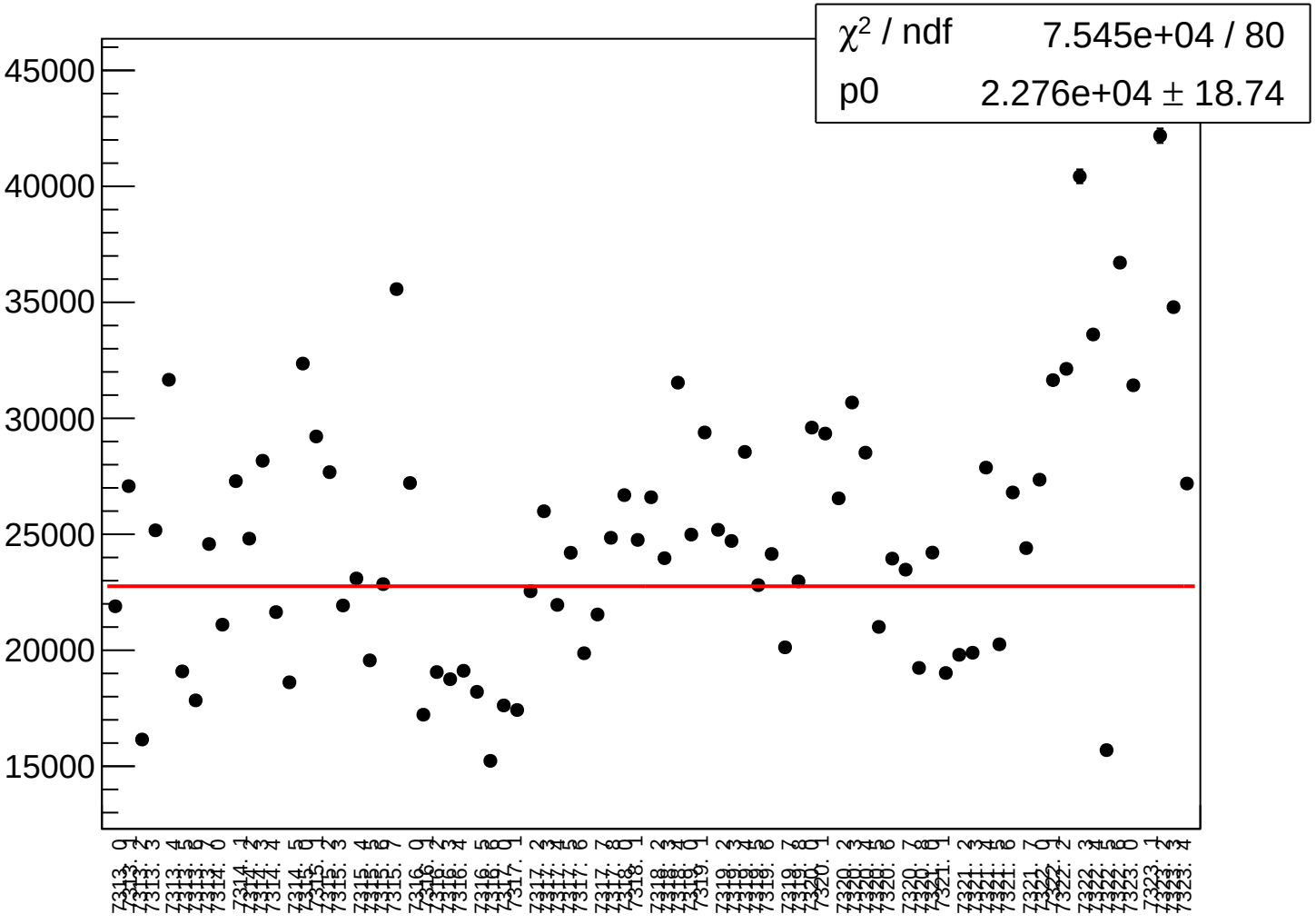

pull1D
Entries 81
Mean 0.001737
Std Dev 1.092

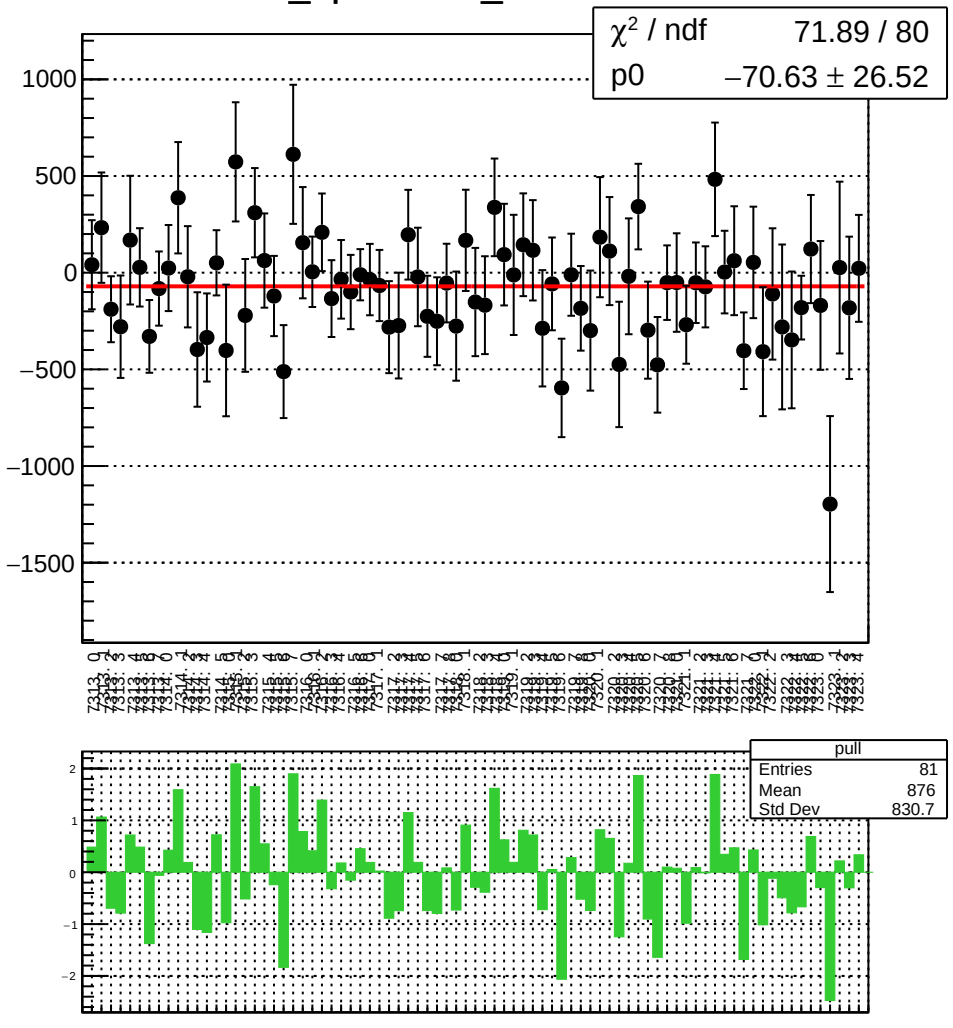

diff_bpm0l02Y_rms vs run
χ² / ndf 1.297e+04 / 80
p0 5823 ± 4.696
7500
7000
6500
6000
5500
5000
4500

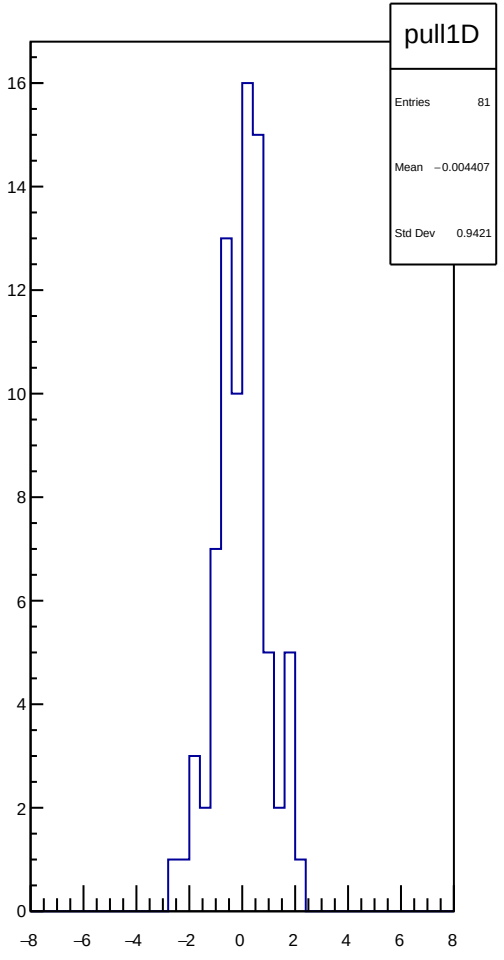

diff_bpm0l03X_mean vs run
χ² / ndf 76.16 / 80
p0 −2.475 ± 26.5
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean 842.9
Std Dev 797.1
2
1
0
−1
−2

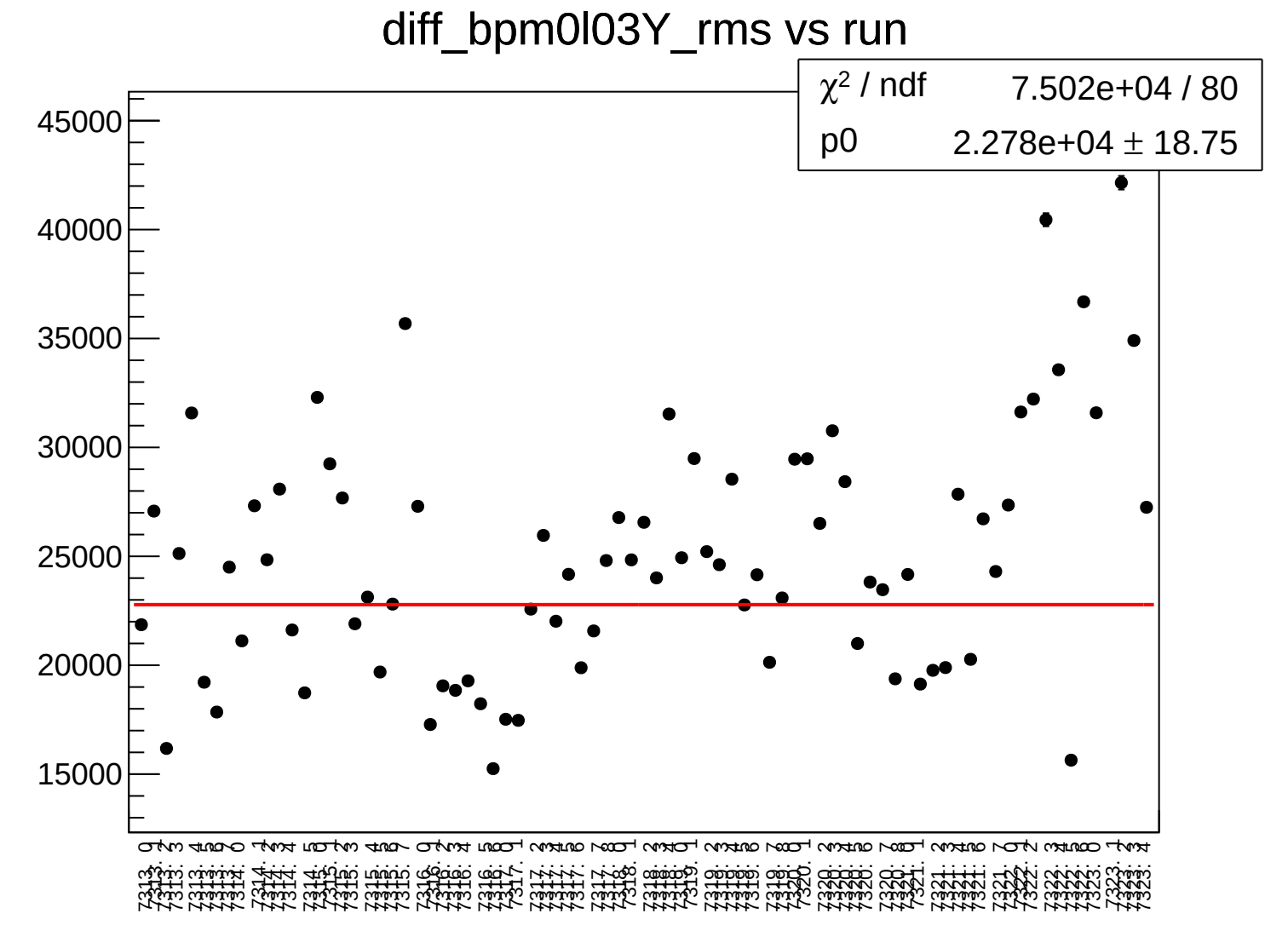

pull1D
Entries 81
Mean −0.00403
Std Dev 0.9697
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

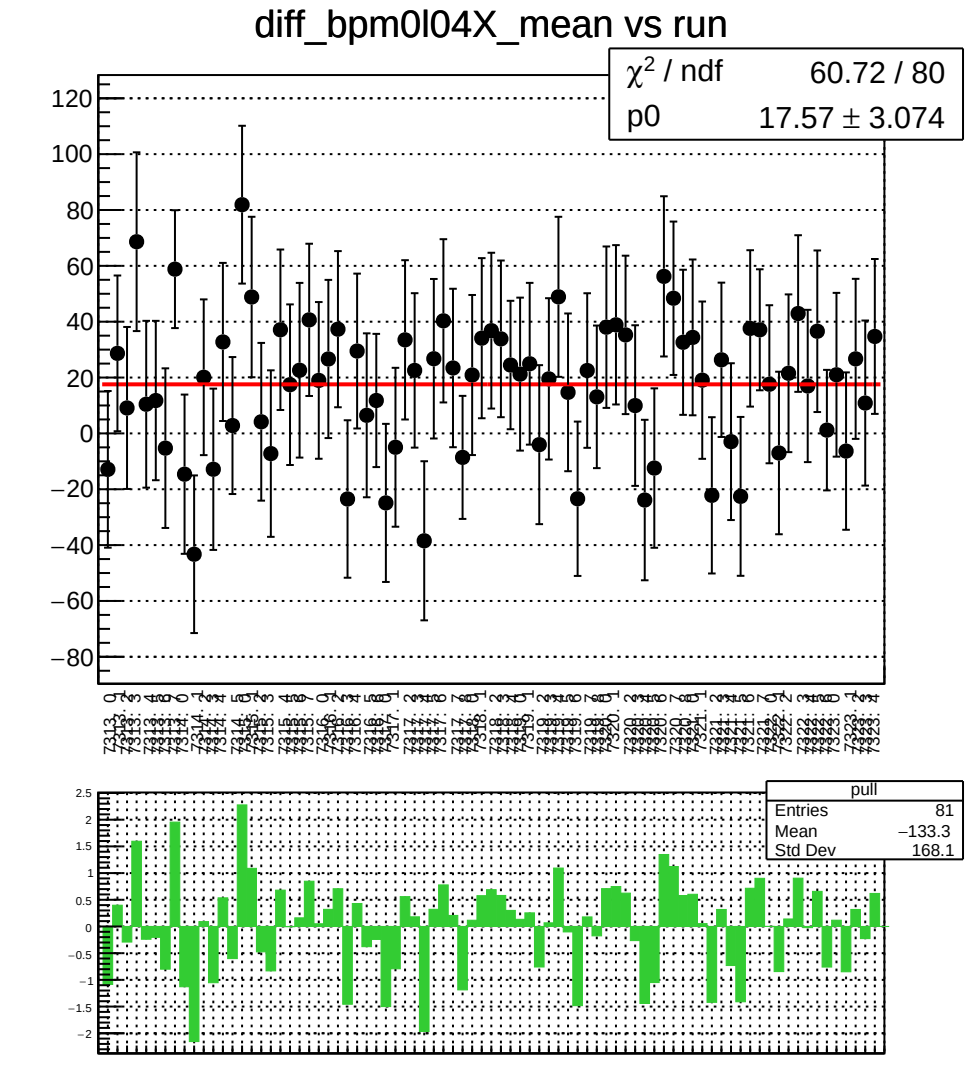
diff_bpm0l03X_rms vs run

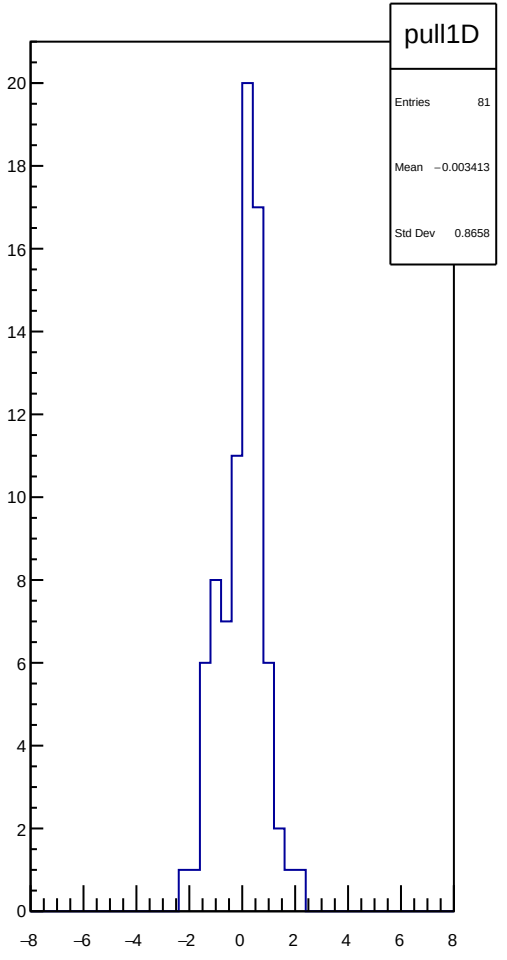


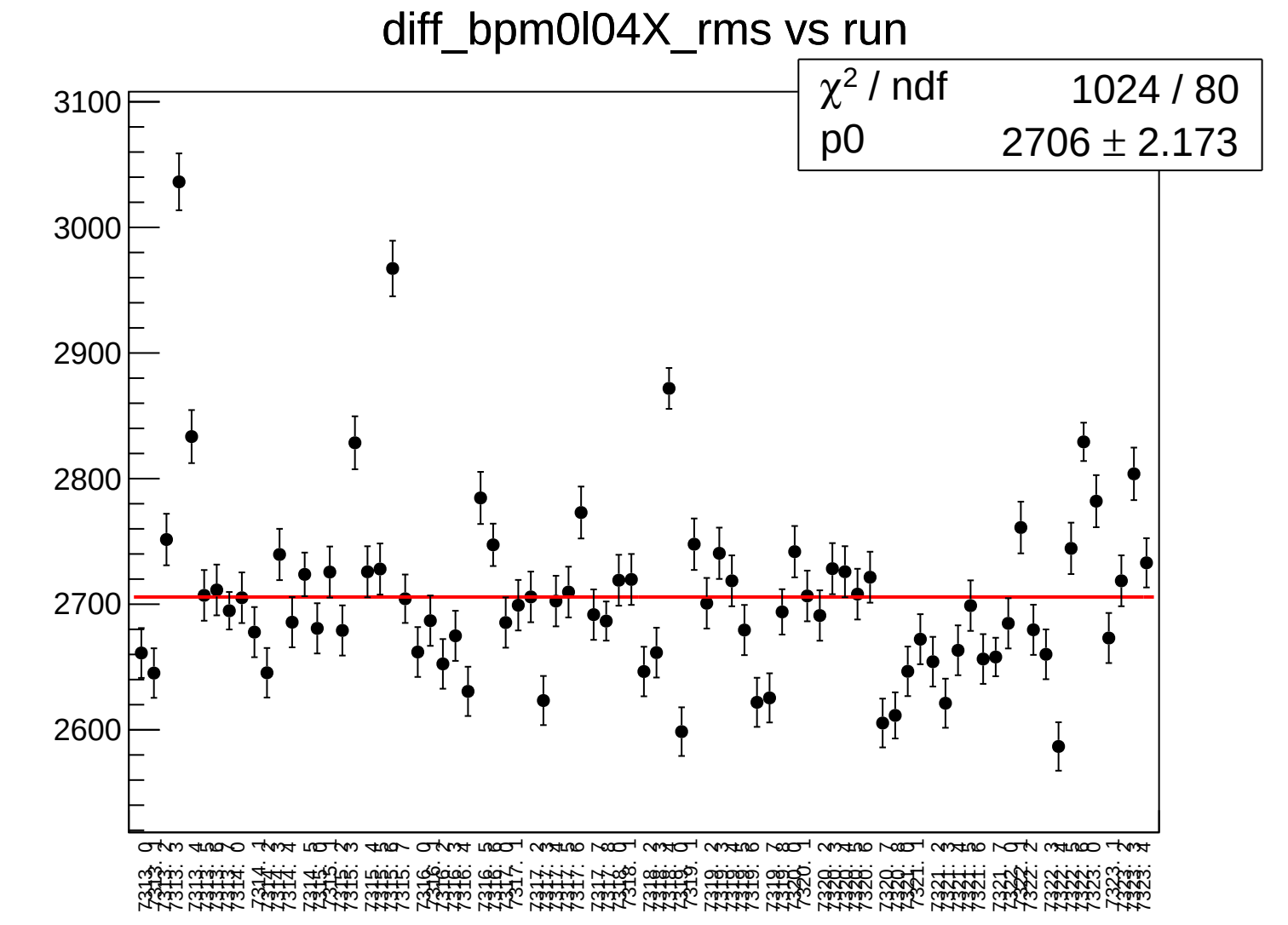

diff_bpm0l03Y_mean vs run
χ² / ndf 71.89 / 80
p0 −70.63 ± 26.52
pull
Entries 81
Mean 876
Std Dev 830.7

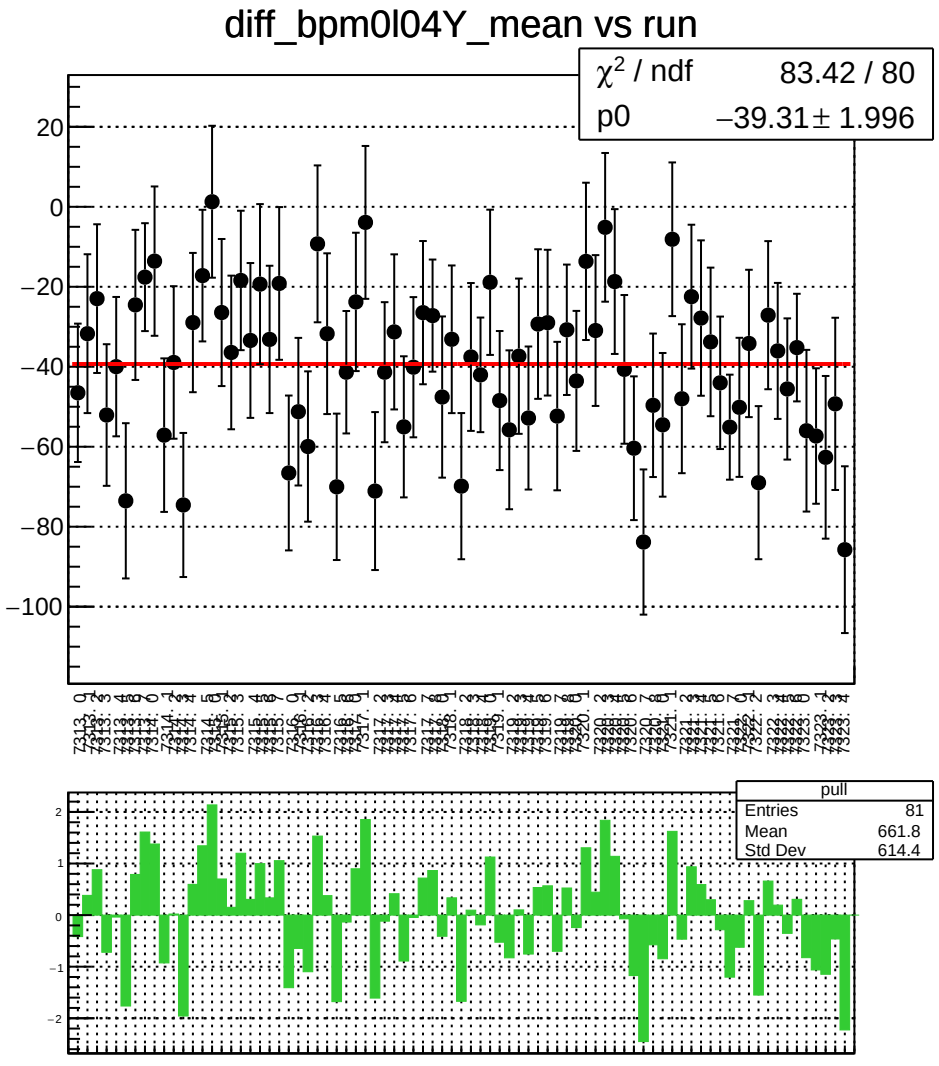

pull1D
Entries 81
Mean −0.004407
Std Dev 0.9421

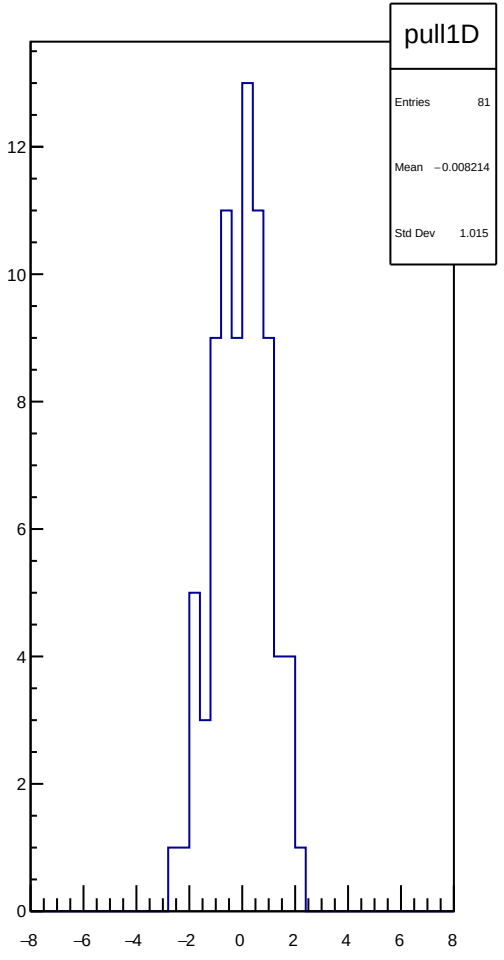

diff_bpm0l03Y_rms vs run
χ² / ndf 7.502e+04 / 80
p0 2.278e+04 ± 18.75
45000
40000
35000
30000
25000
20000
15000

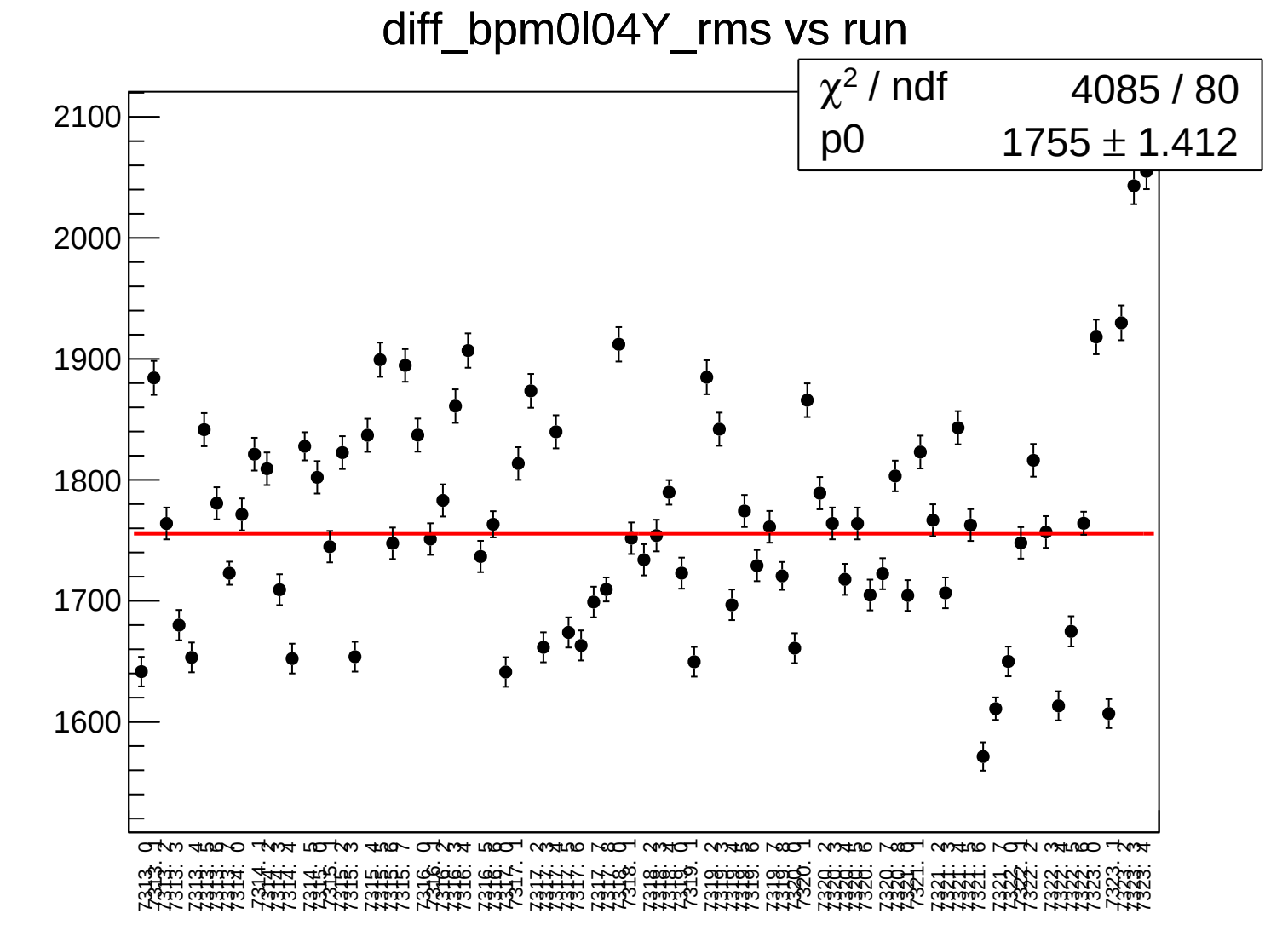

diff_bpm0l04X_mean vs run
χ^2 / ndf 60.72 / 80
p0 17.57 ± 3.074
pull
Entries 81
Mean −133.3
Std Dev 168.1

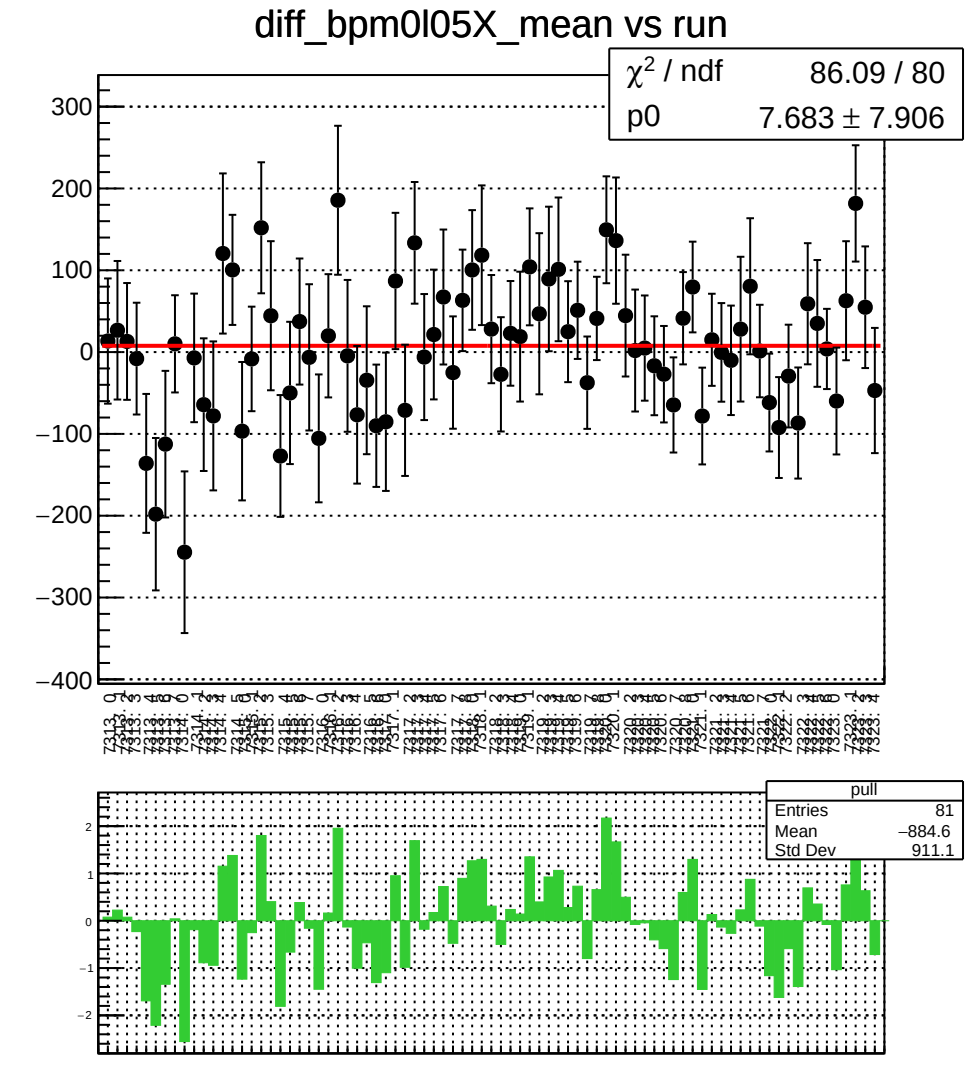

pull1D
Entries 81
Mean −0.003413
Std Dev 0.8658

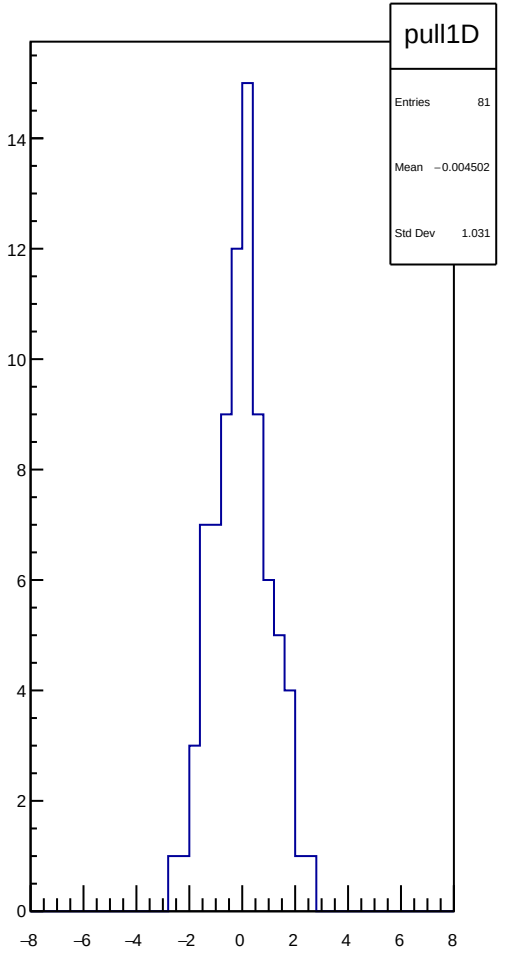

diff_bpm0l04X_rms vs run
χ² / ndf 1024 / 80
p0 2706 ± 2.173
3100
3000
2900
2800
2700
2600

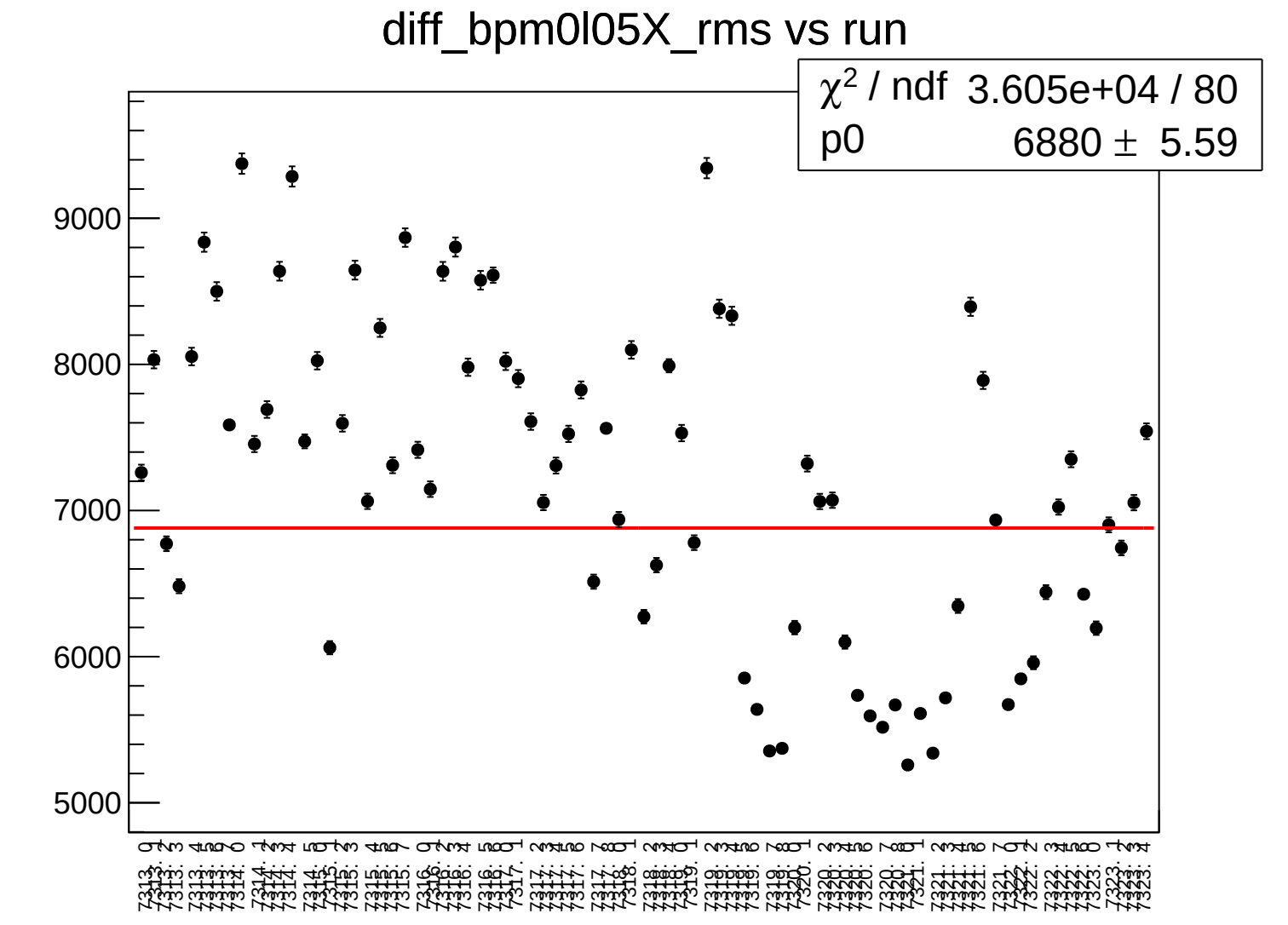

diff_bpm0l04Y_mean vs run
χ² / ndf 83.42 / 80
p0 −39.31 ± 1.996
pull
Entries 81
Mean 661.8
Std Dev 614.4

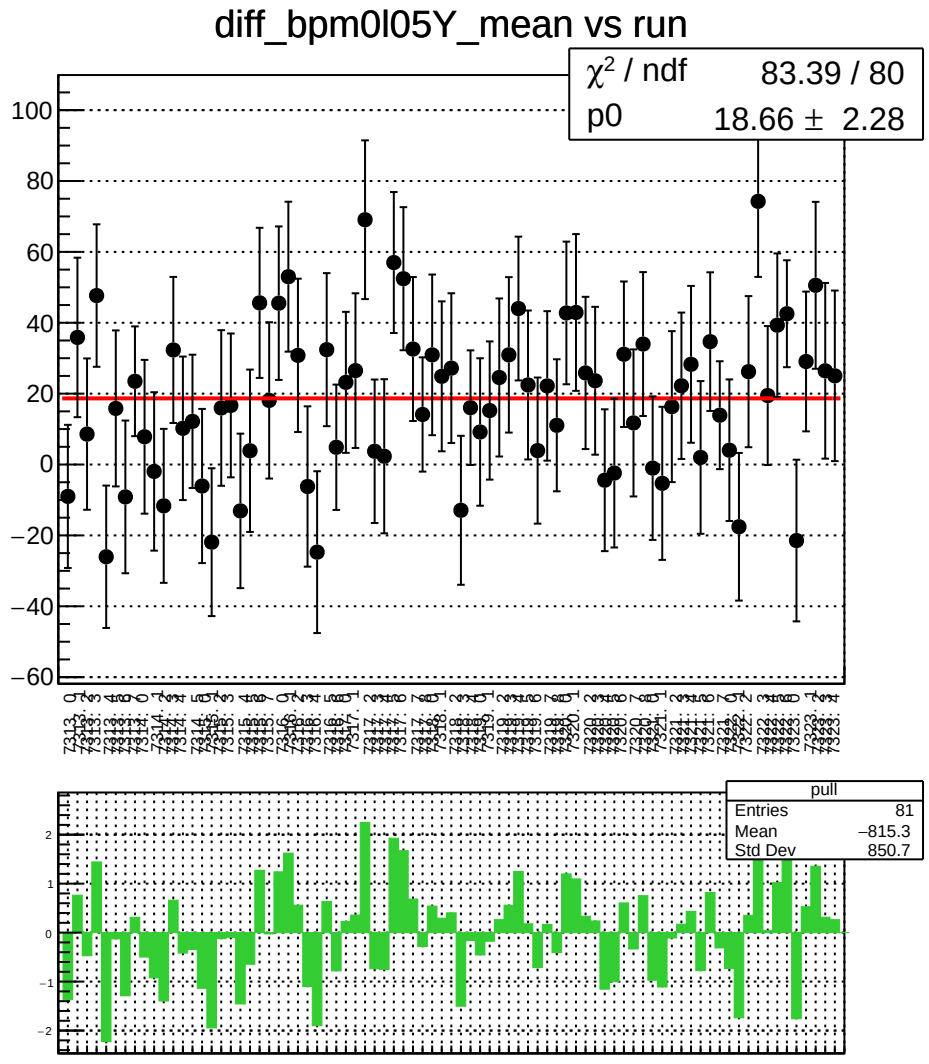

pull1D
Entries 81
Mean −0.008214
Std Dev 1.015

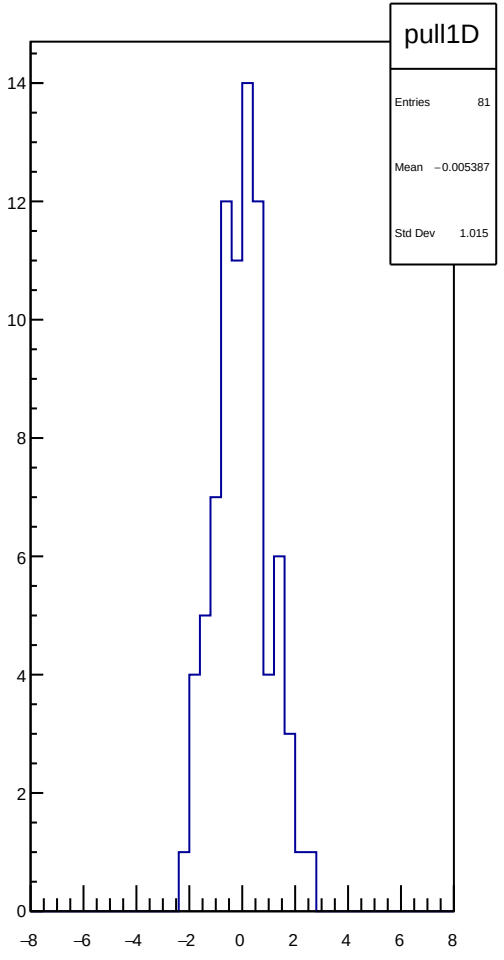

diff_bpm0l04Y_rms vs run
χ² / ndf 4085 / 80
p0 1755 ± 1.412
2100
2000
1900
1800
1700
1600

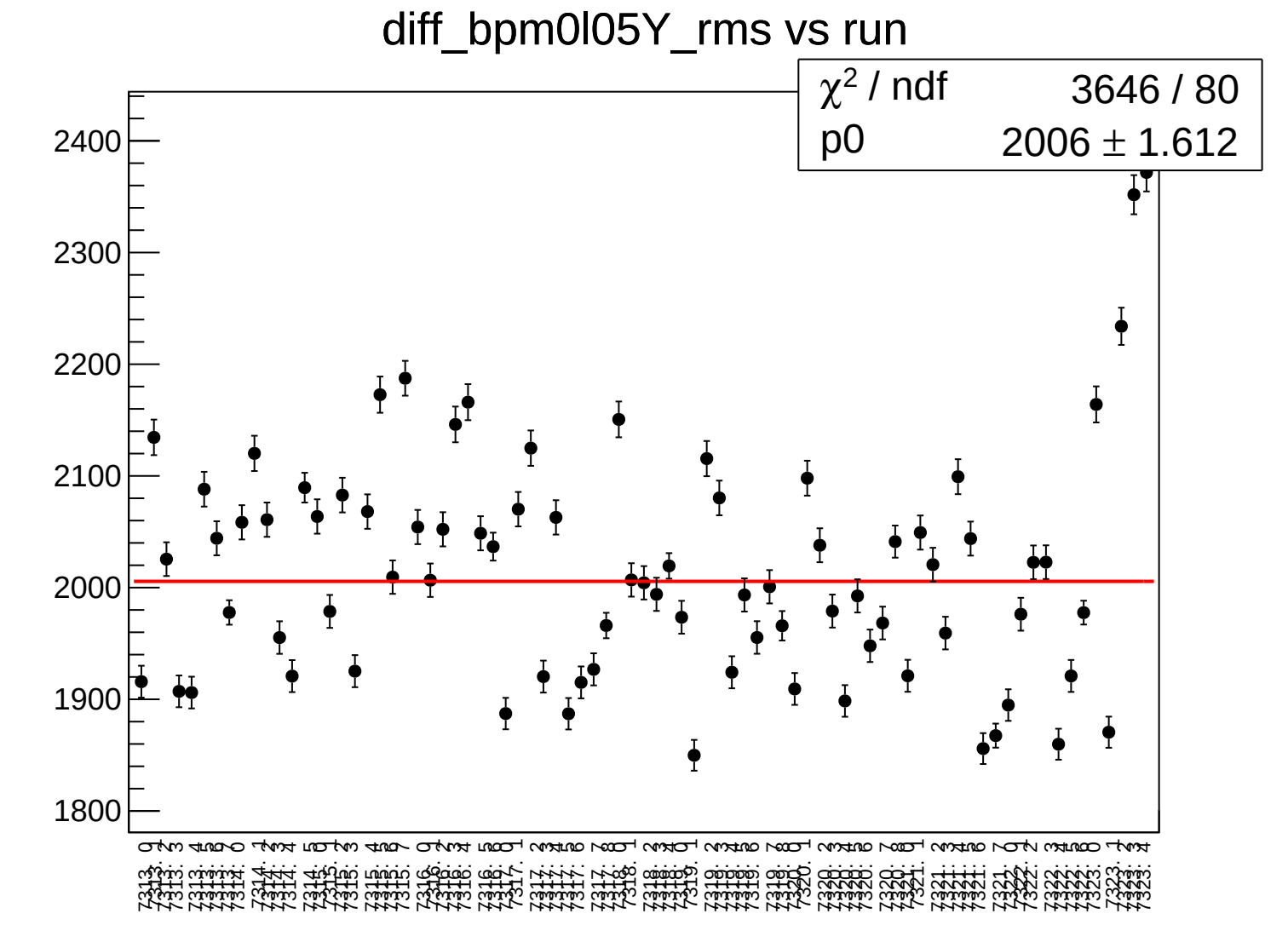

diff_bpm0l05X_mean vs run
χ² / ndf 86.09 / 80
p0 7.683 ± 7.906
pull
Entries 81
Mean −884.6
Std Dev 911.1

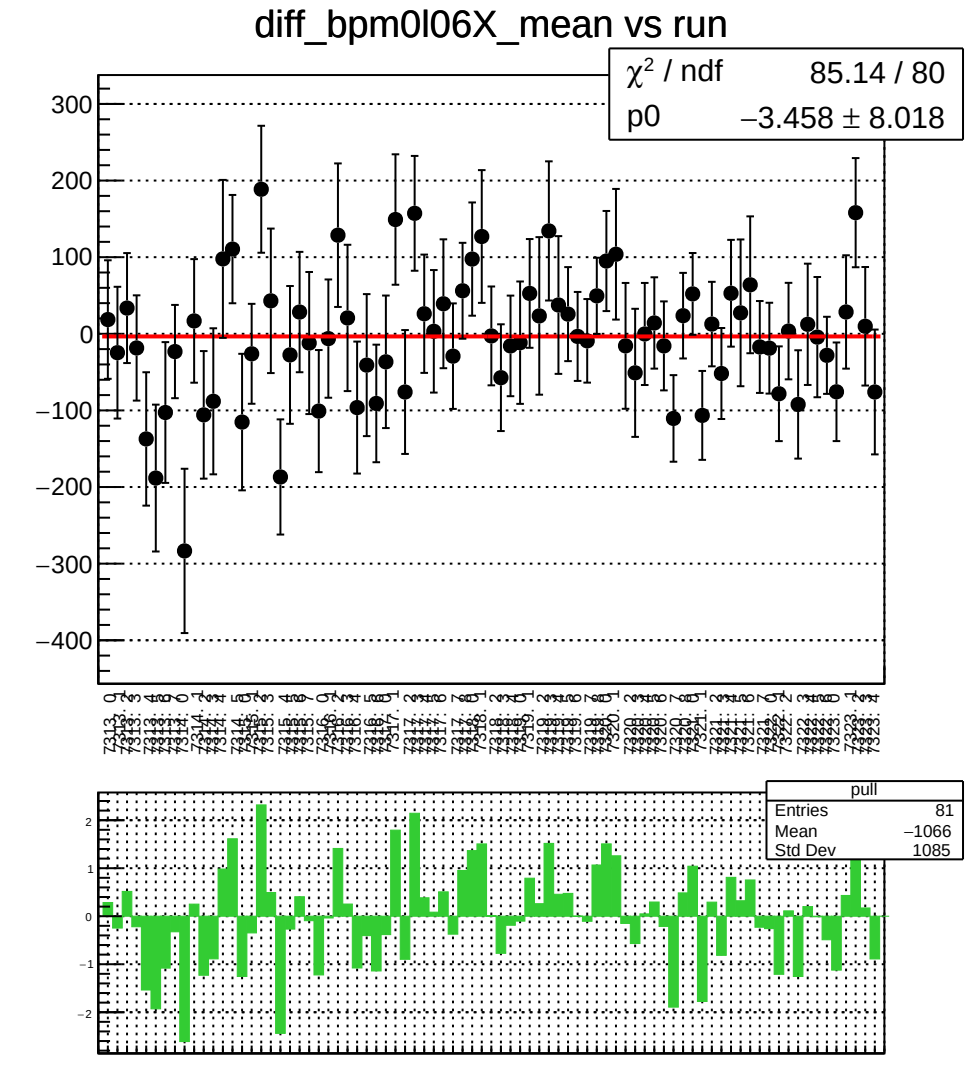

pull1D
Entries 81
Mean −0.004502
Std Dev 1.031

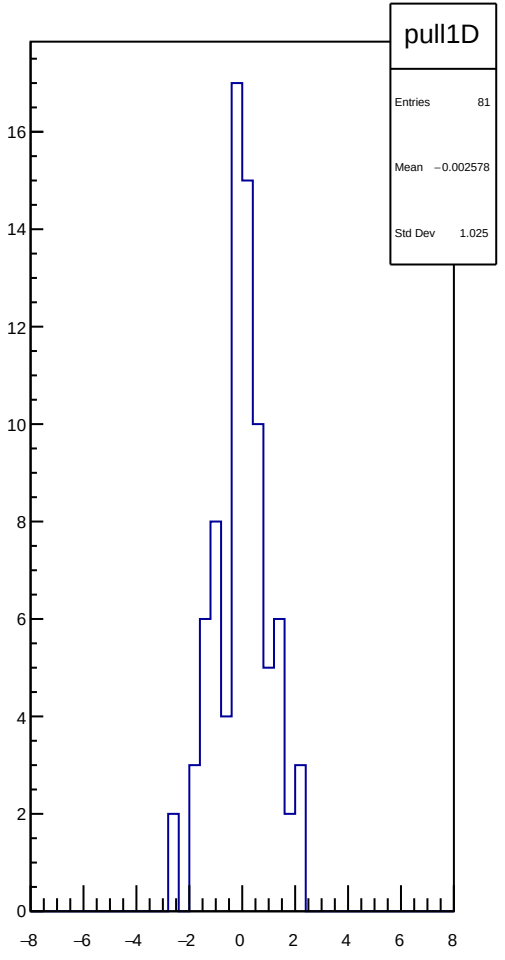

diff_bpm0l05X_rms vs run
χ² / ndf 3.605e+04 / 80
p0 6880 ± 5.59
9000
8000
7000
6000
5000

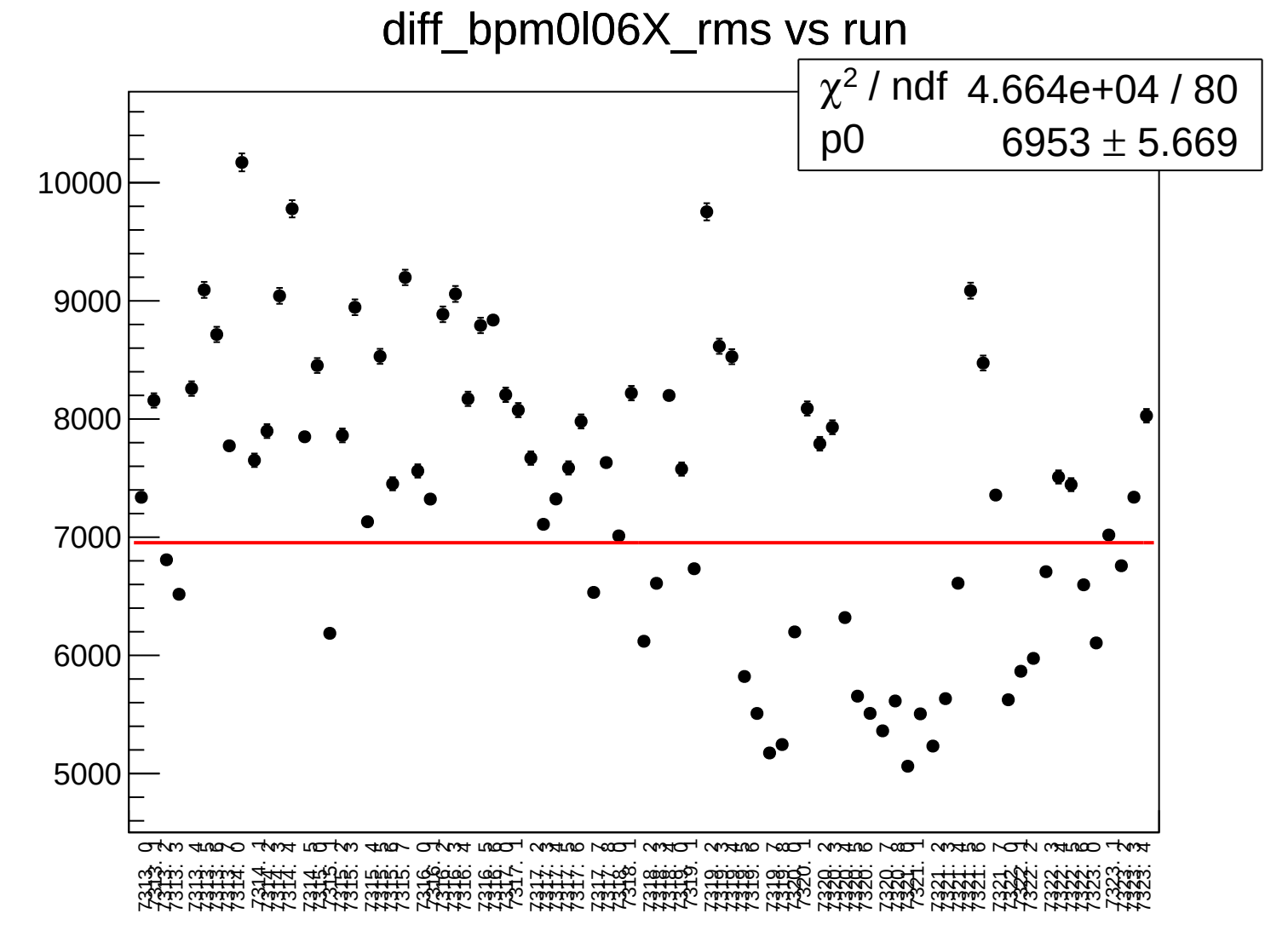

diff_bpm0l05Y_mean vs run
χ² / ndf 83.39 / 80
p0 18.66 ± 2.28
pull
Entries 81
Mean −815.3
Std Dev 850.7

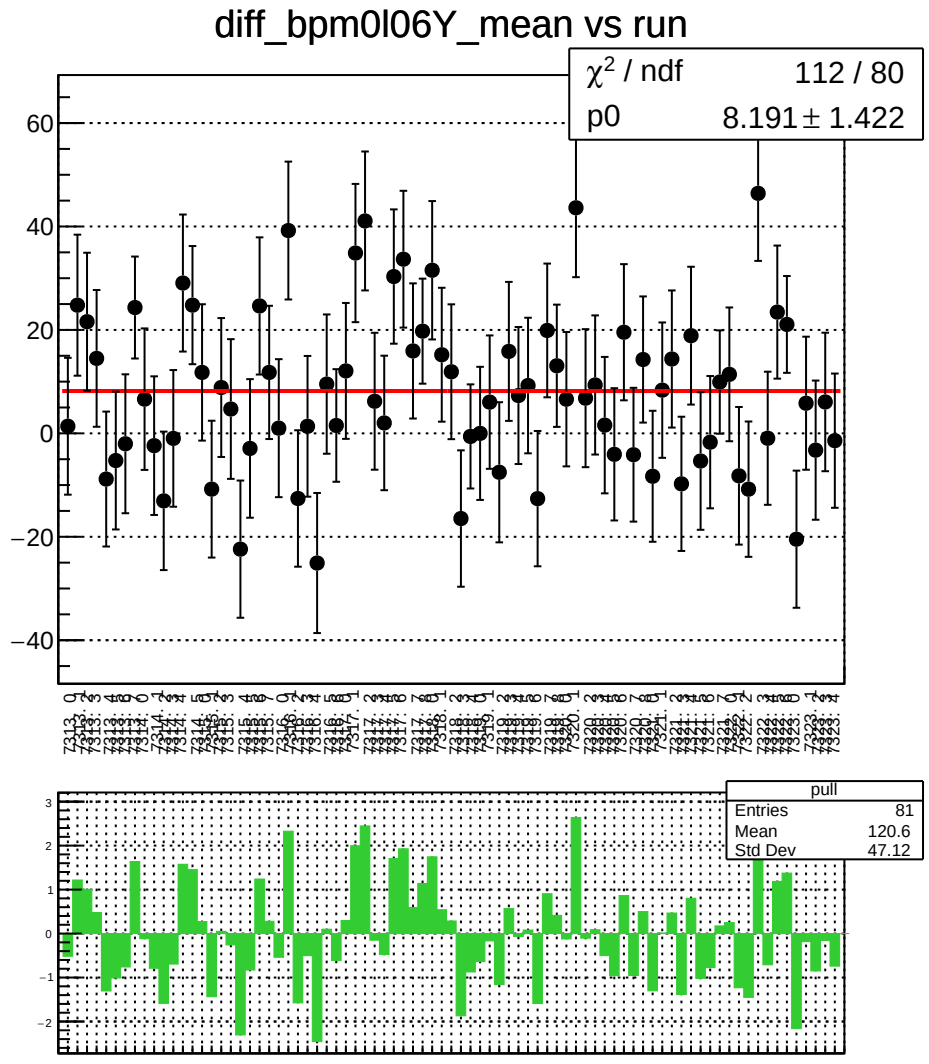

pull1D
Entries 81
Mean −0.005387
Std Dev 1.015

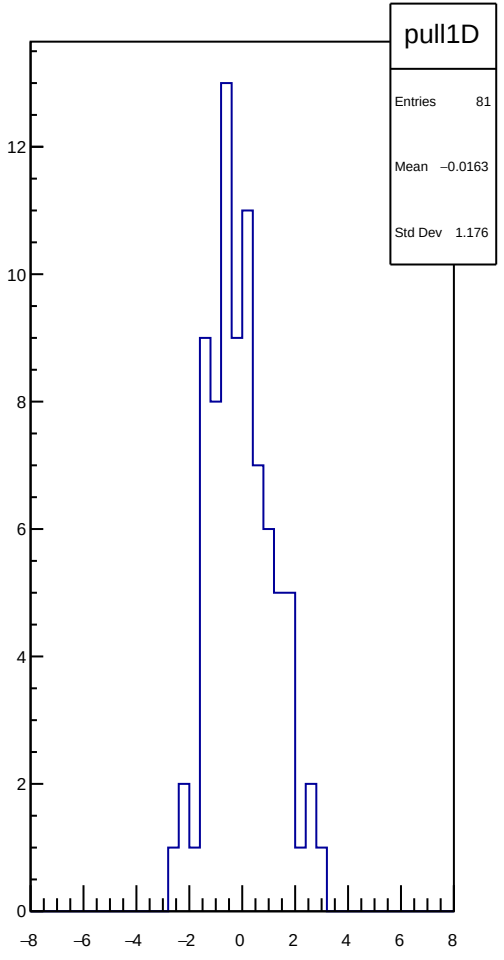

diff_bpm0l05Y_rms vs run
χ² / ndf 3646 / 80
p0 2006 ± 1.612
2400
2300
2200
2100
2000
1900
1800

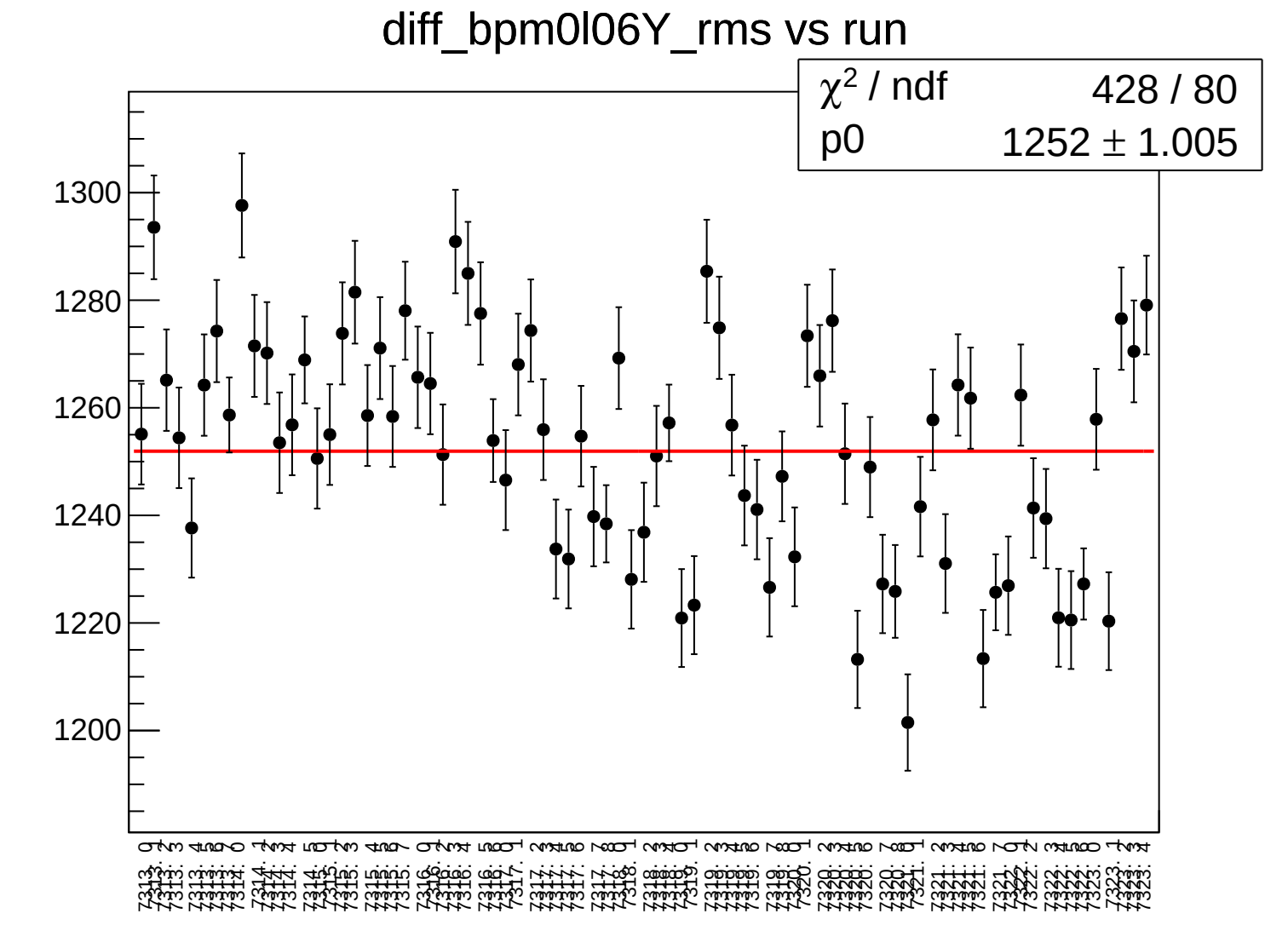

diff_bpm0l06X_mean vs run
χ² / ndf 85.14 / 80
p0 −3.458 ± 8.018
pull
Entries 81
Mean −1066
Std Dev 1085

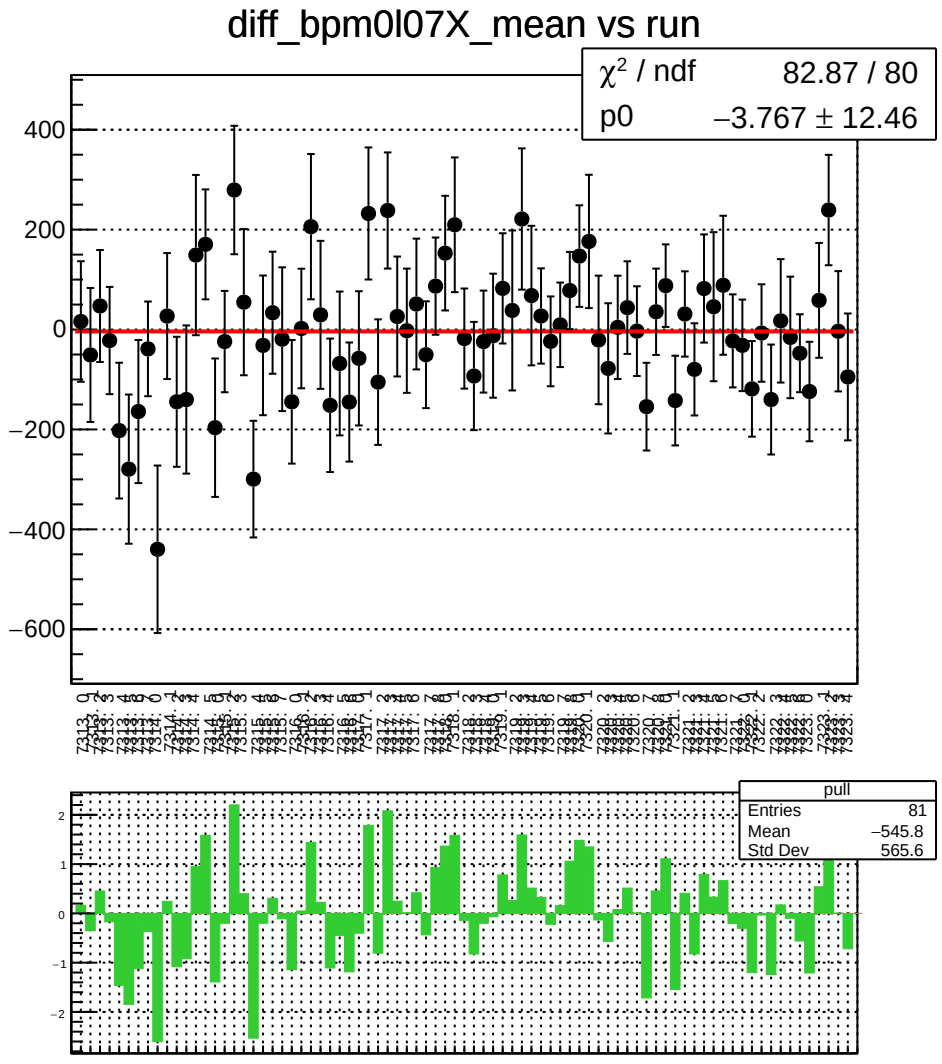

pull1D
Entries 81
Mean −0.002578
Std Dev 1.025

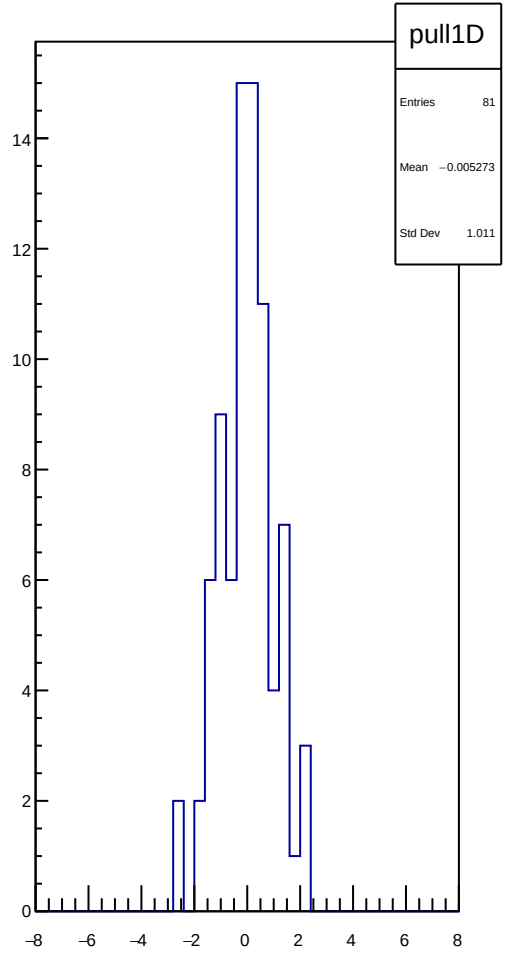

diff_bpm0l06X_rms vs run
χ² / ndf 4.664e+04 / 80
p0 6953 ± 5.669
10000
9000
8000
7000
6000
5000

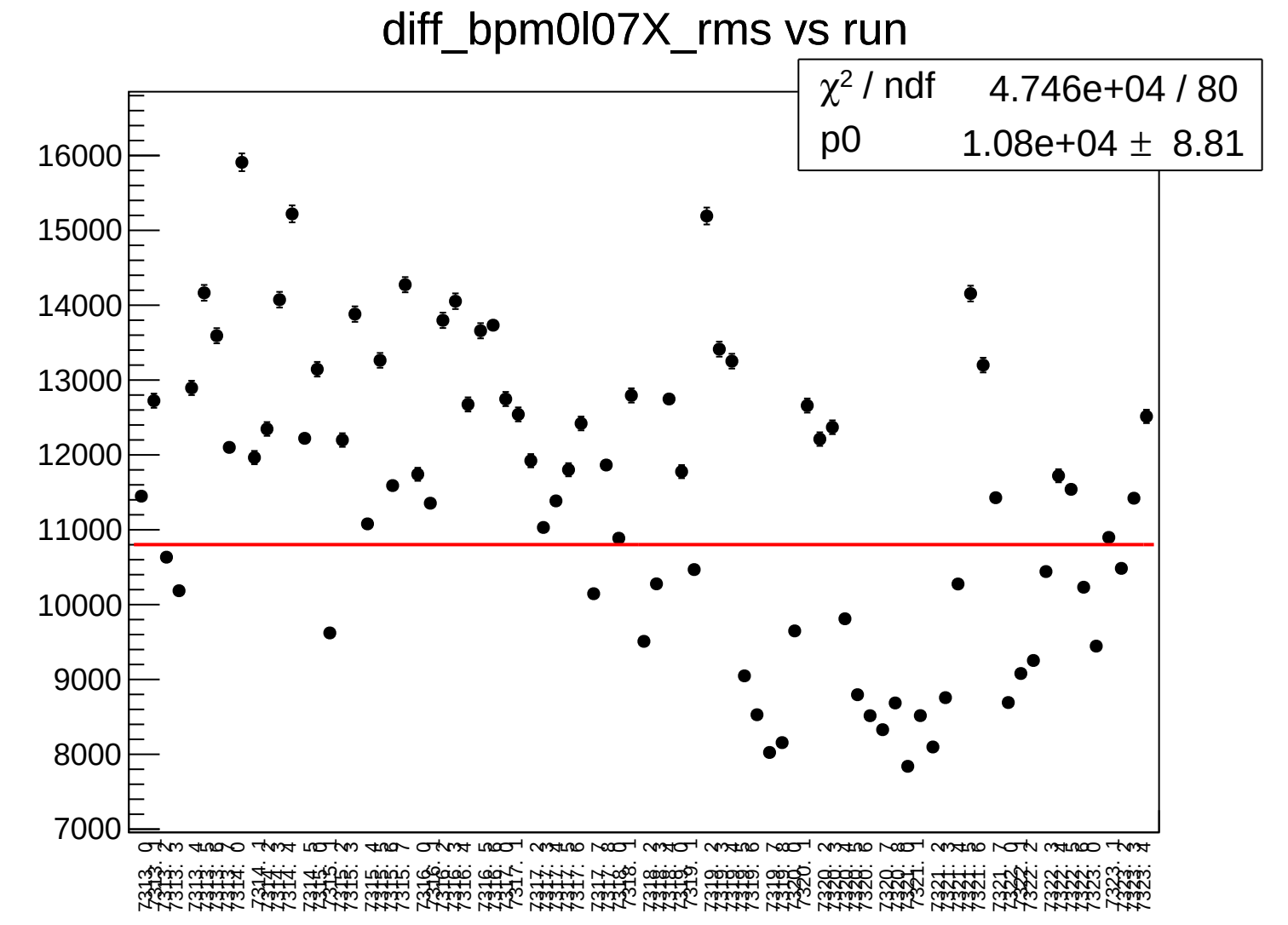

diff_bpm0l06Y_mean vs run
χ² / ndf 112 / 80
p0 8.191 ± 1.422
pull
Entries 81
Mean 120.6
Std Dev 47.12

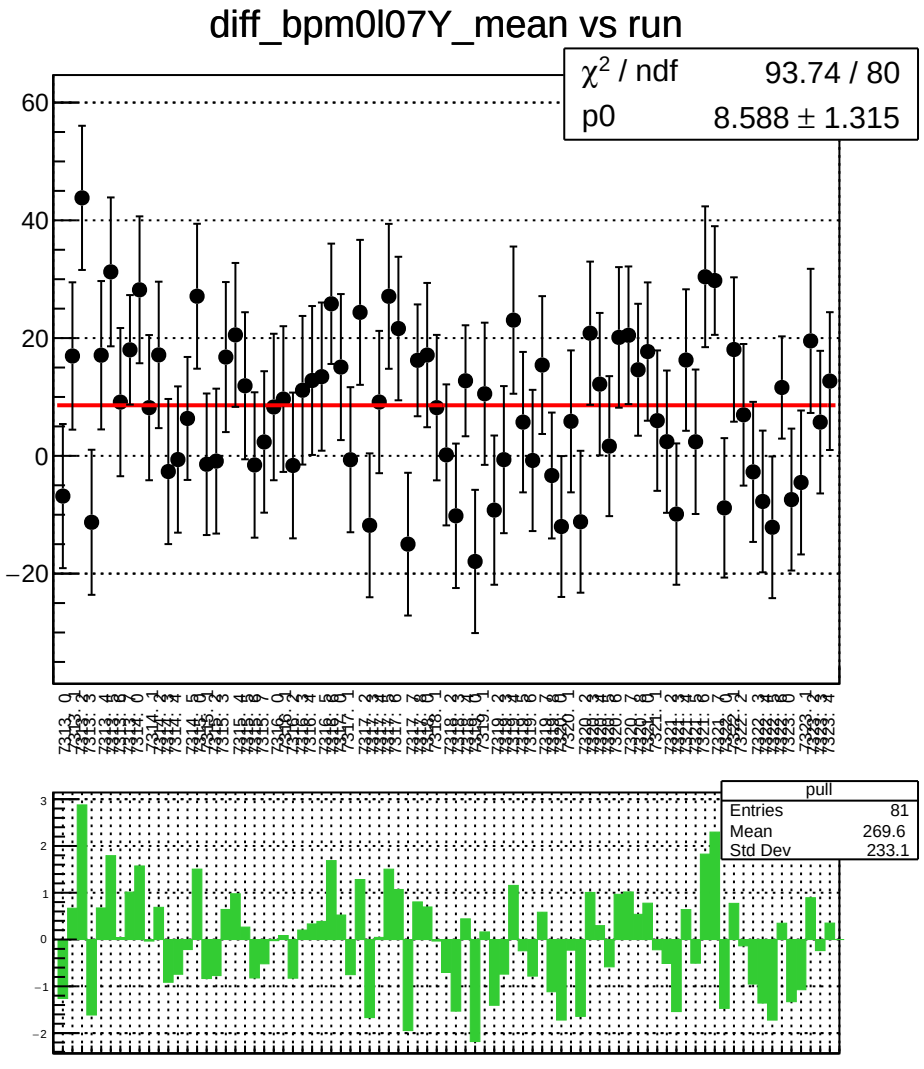

pull1D
Entries 81
Mean −0.0163
Std Dev 1.176

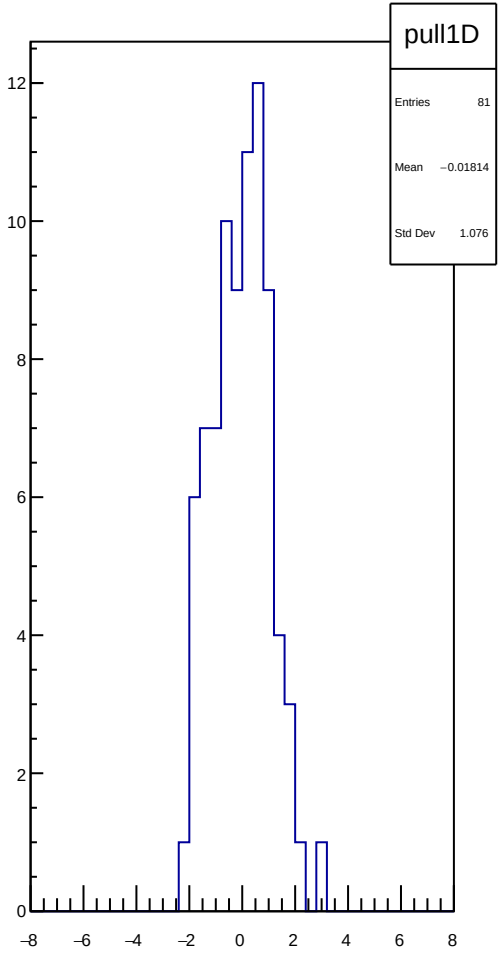

diff_bpm0l06Y_rms vs run
χ² / ndf 428 / 80
p0 1252 ± 1.005
1300
1280
1260
1240
1220
1200

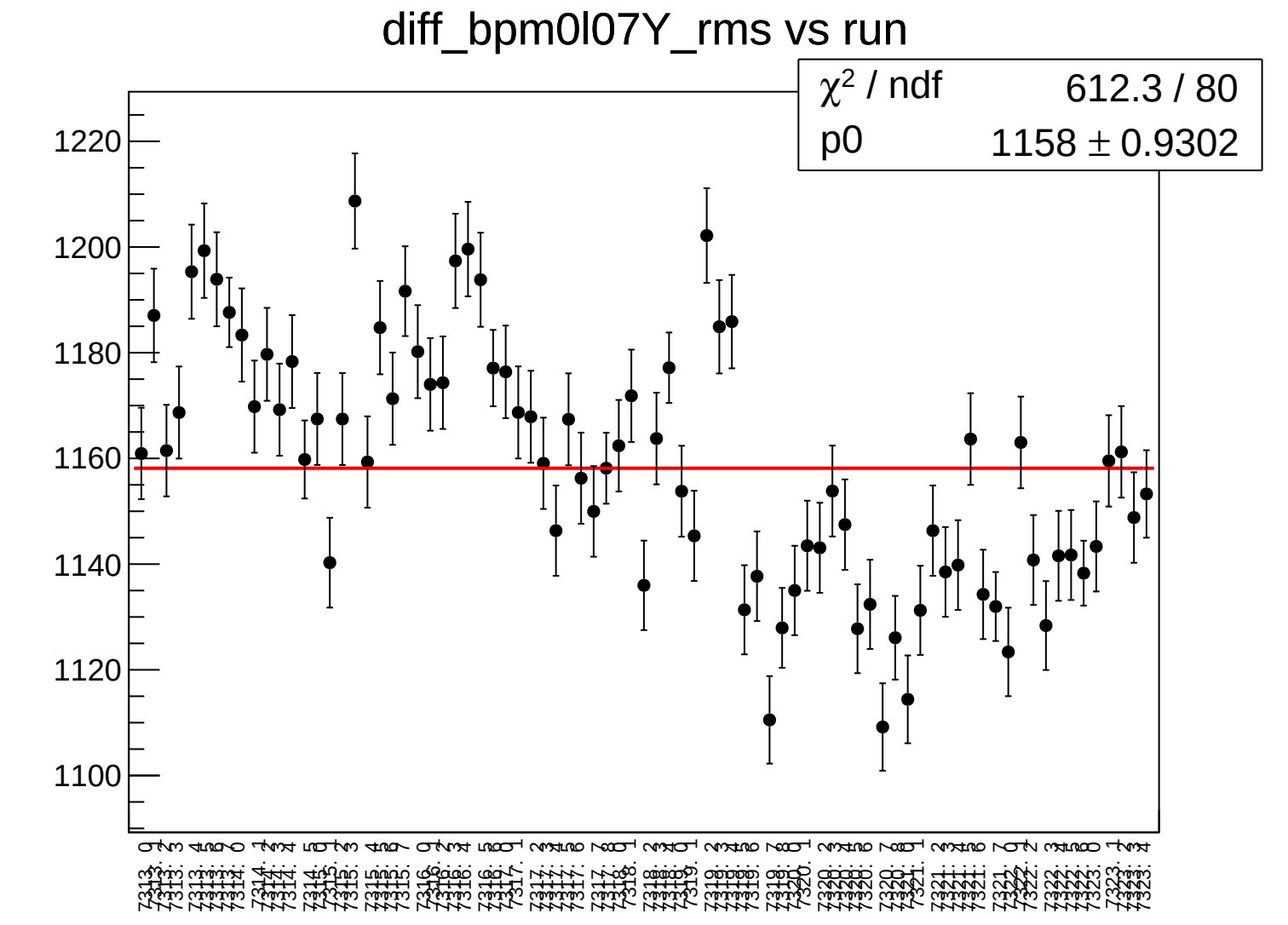

diff_bpm0l07X_mean vs run
χ² / ndf 82.87 / 80
p0 −3.767 ± 12.46
400
200
0
−200
−400
−600
pull
Entries 81
Mean −545.8
Std Dev 565.6
2
1
0
−1
−2

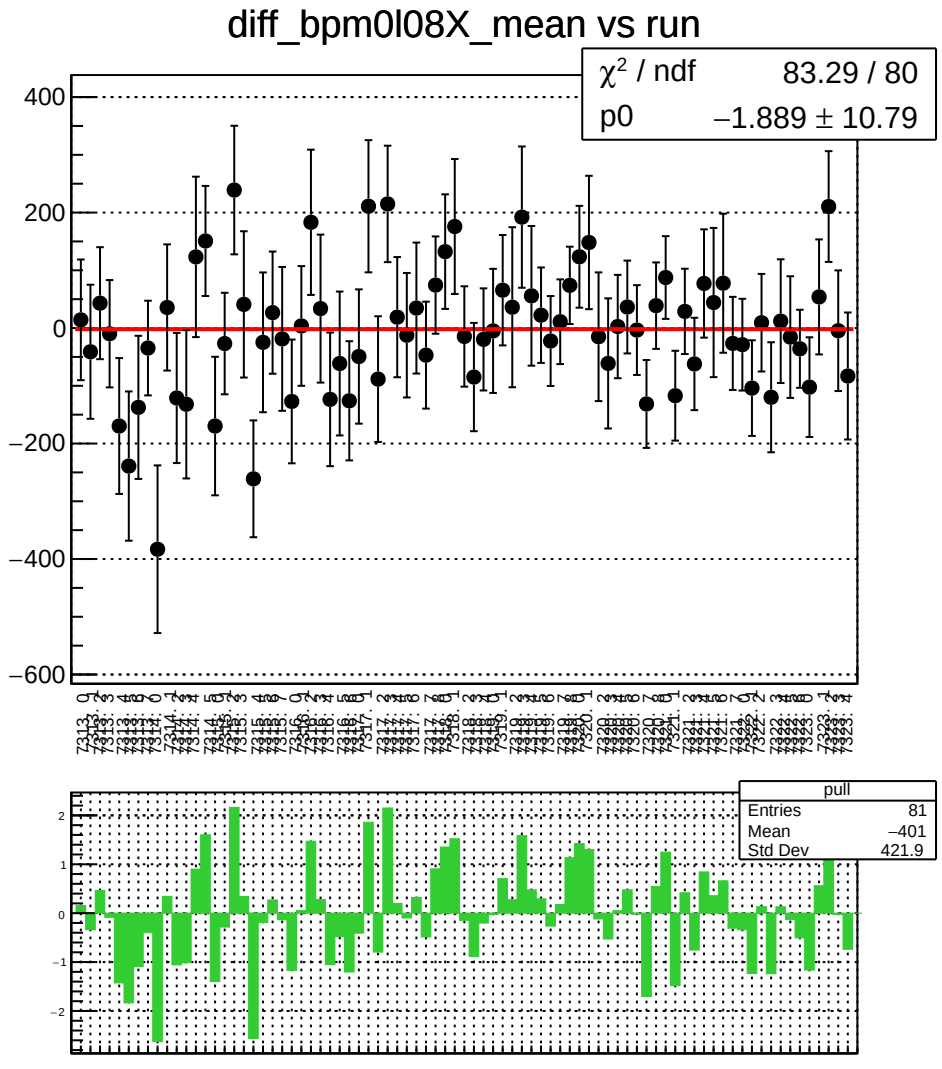

pull1D
Entries 81
Mean −0.005273
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

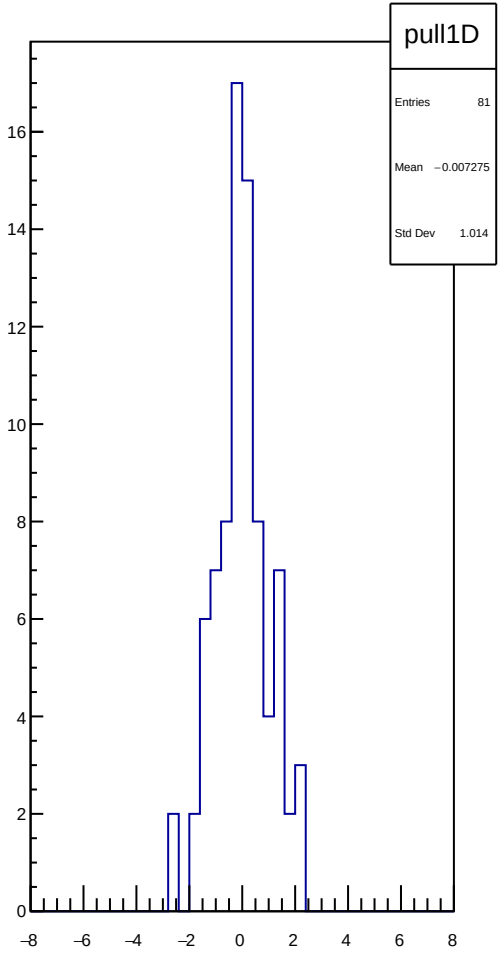

diff_bpm0l07X_rms vs run
χ² / ndf 4.746e+04 / 80
p0 1.08e+04 ± 8.81
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000

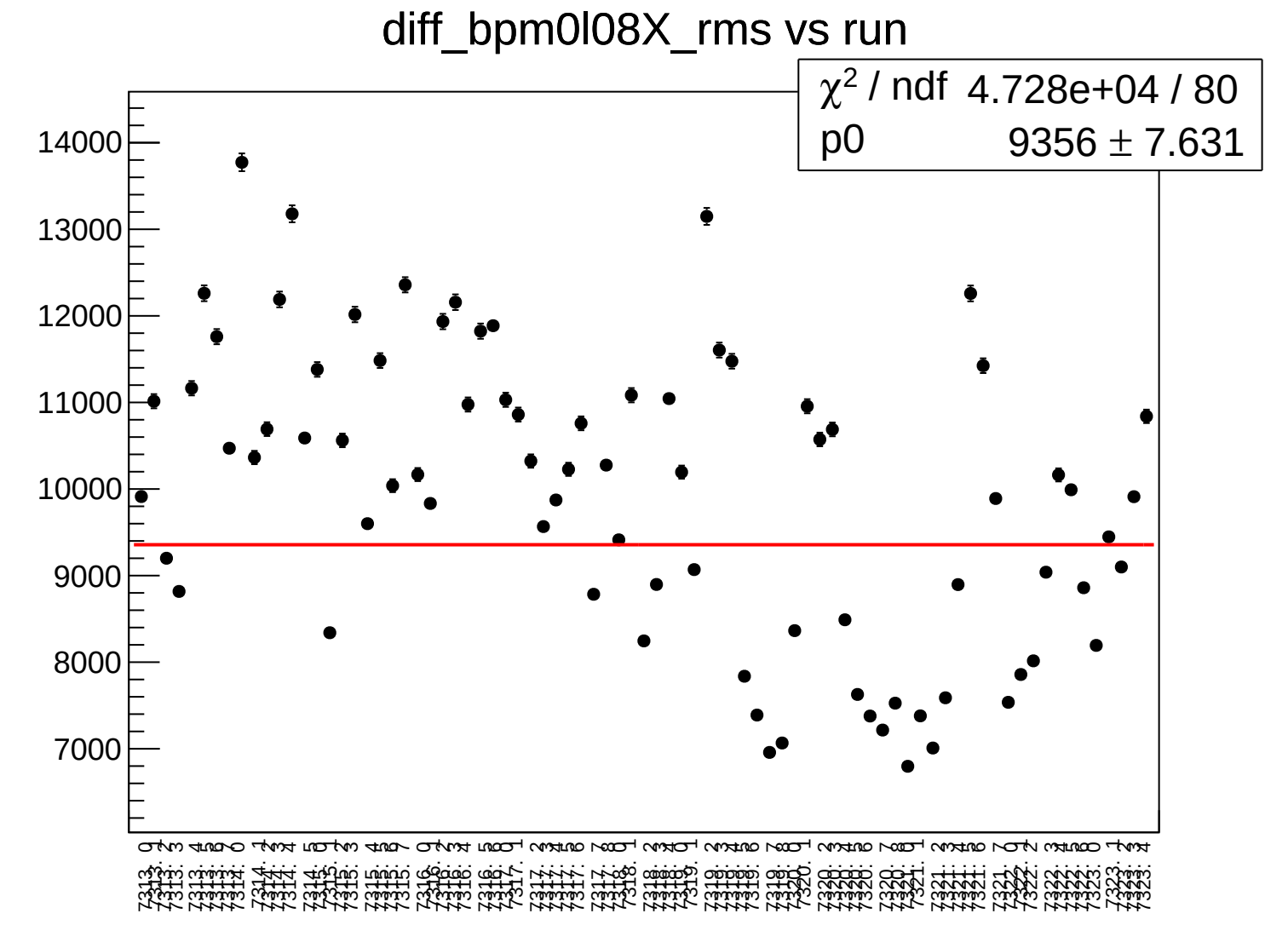

diff_bpm0l07Y_mean vs run
χ² / ndf 93.74 / 80
p0 8.588 ± 1.315
pull
Entries 81
Mean 269.6
Std Dev 233.1

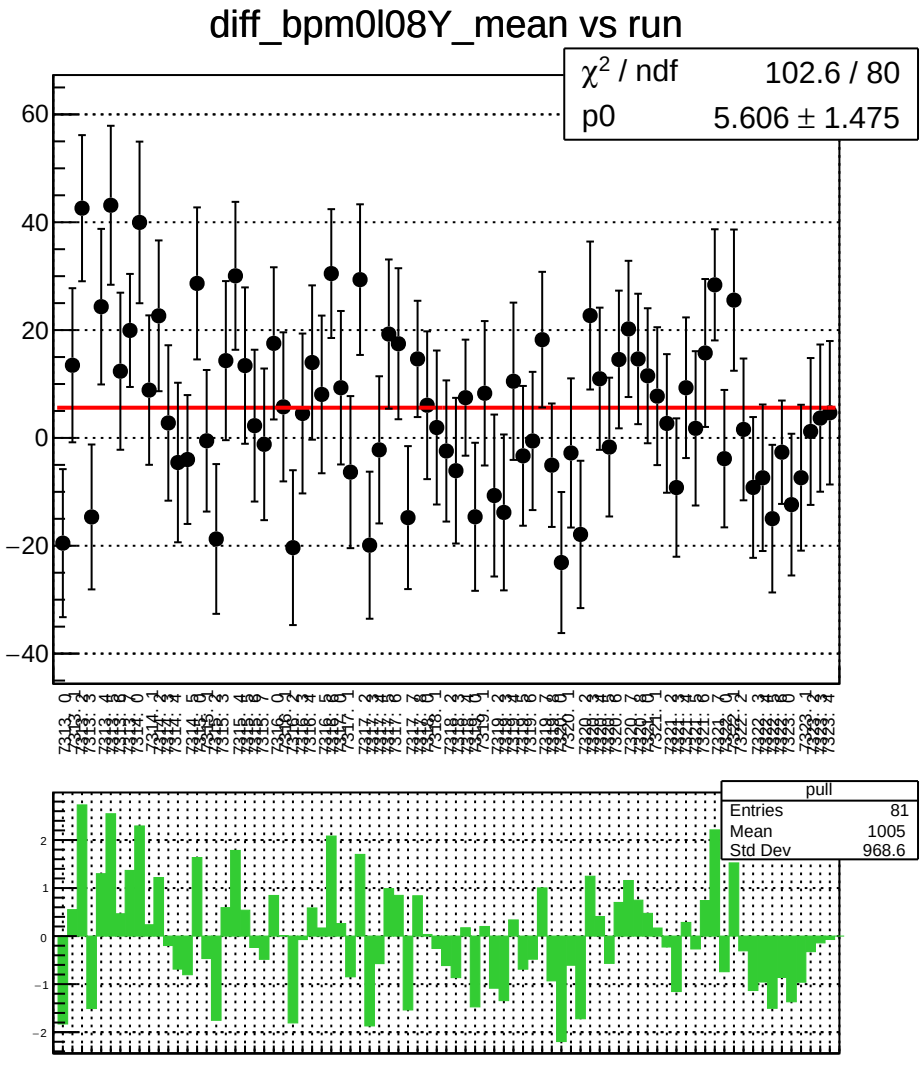

pull1D
Entries 81
Mean −0.01814
Std Dev 1.076

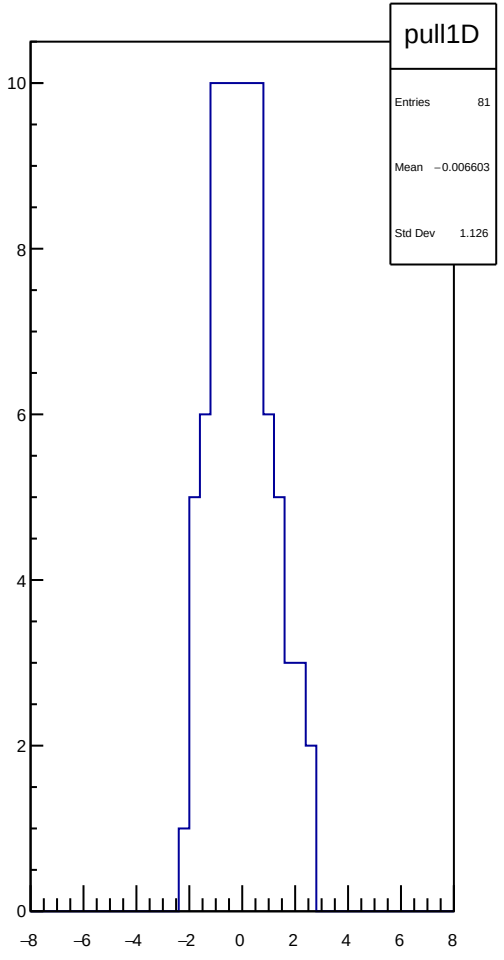

diff_bpm0l07Y_rms vs run
χ² / ndf 612.3 / 80
p0 1158 ± 0.9302
1220
1200
1180
1160
1140
1120
1100

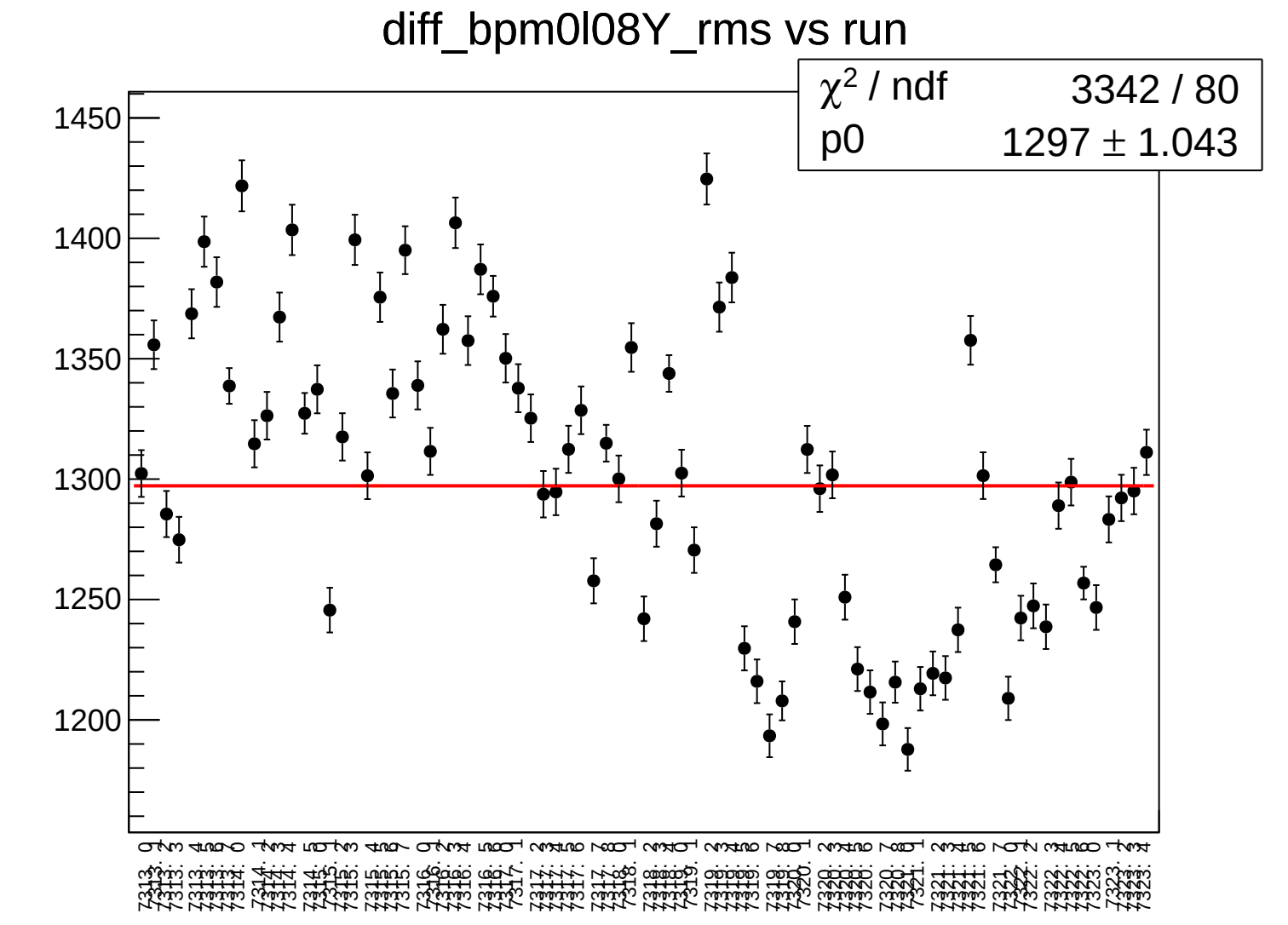

diff_bpm0l08X_mean vs run
χ² / ndf 83.29 / 80
p0 −1.889 ± 10.79
pull
Entries 81
Mean −401
Std Dev 421.9

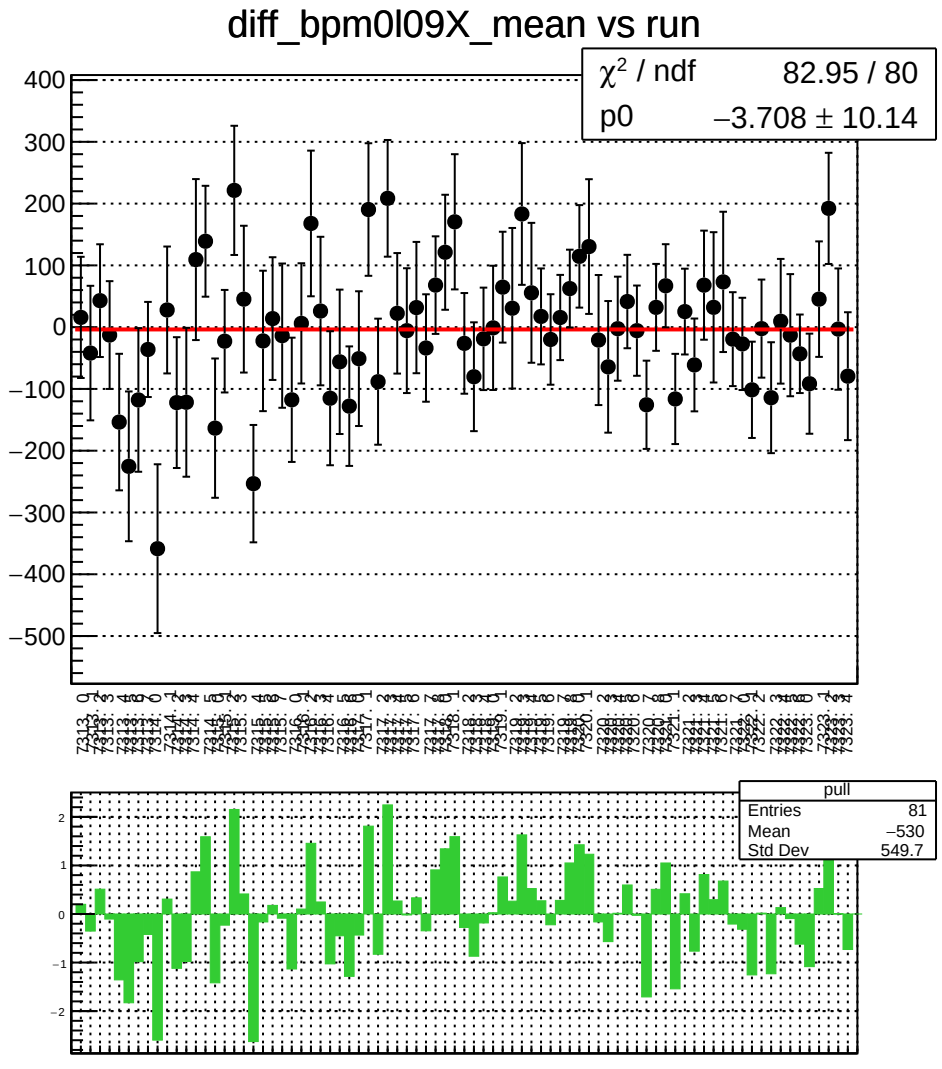

pull1D
Entries 81
Mean −0.007275
Std Dev 1.014

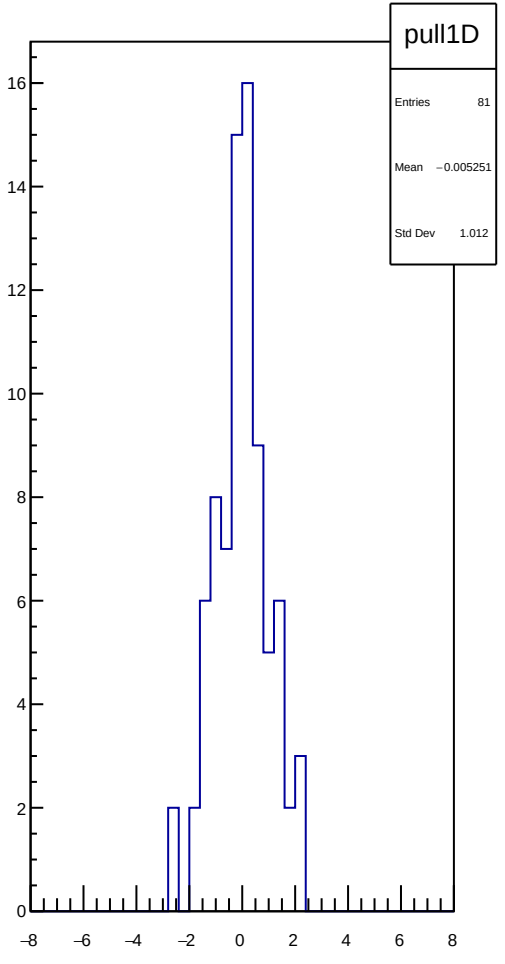

diff_bpm0l08X_rms vs run
χ² / ndf 4.728e+04 / 80
p0 9356 ± 7.631
14000
13000
12000
11000
10000
9000
8000
7000

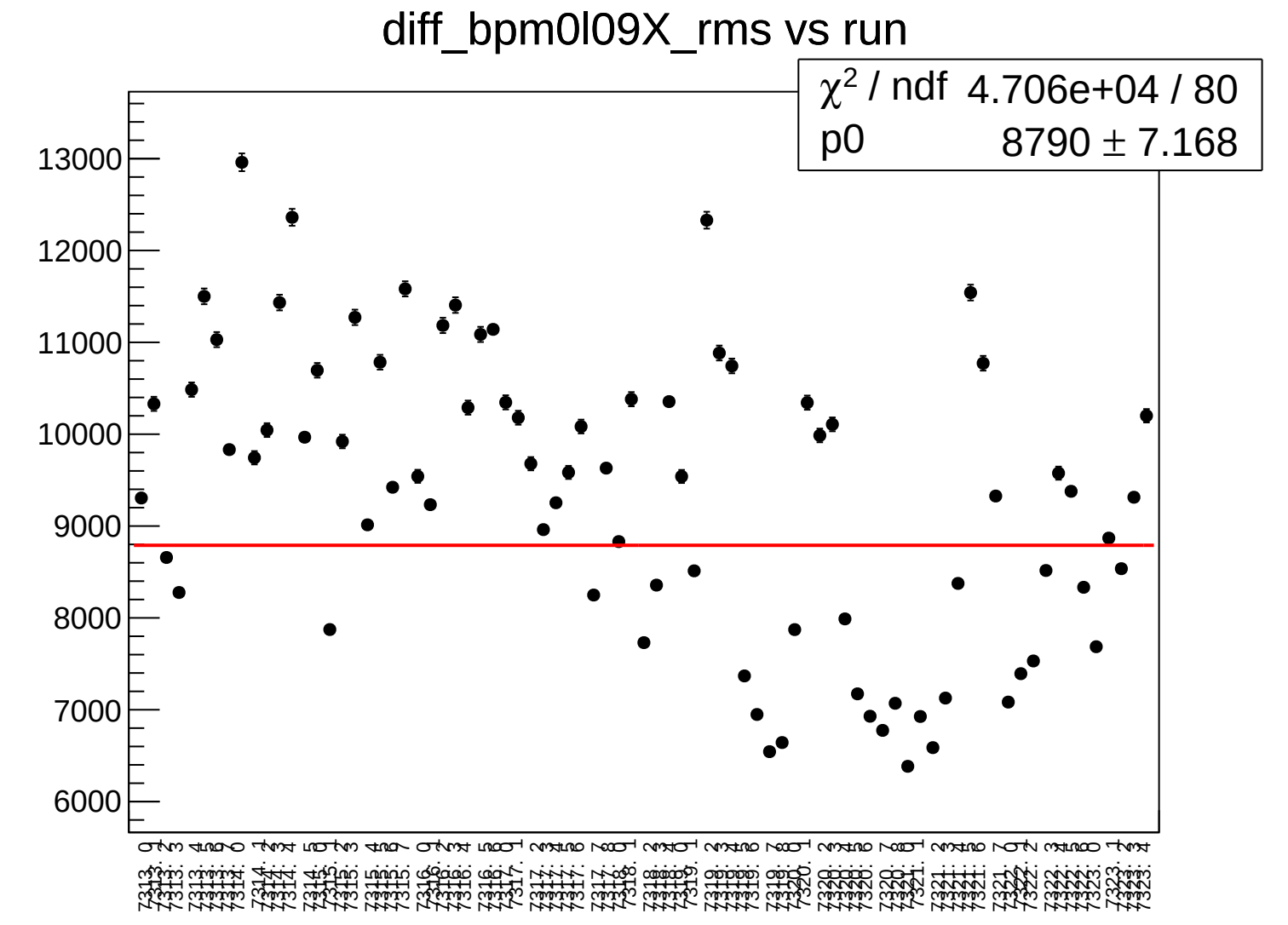

diff_bpm0l08Y_mean vs run
χ^2 / ndf 102.6 / 80
p0 5.606 ± 1.475
pull
Entries 81
Mean 1005
Std Dev 968.6

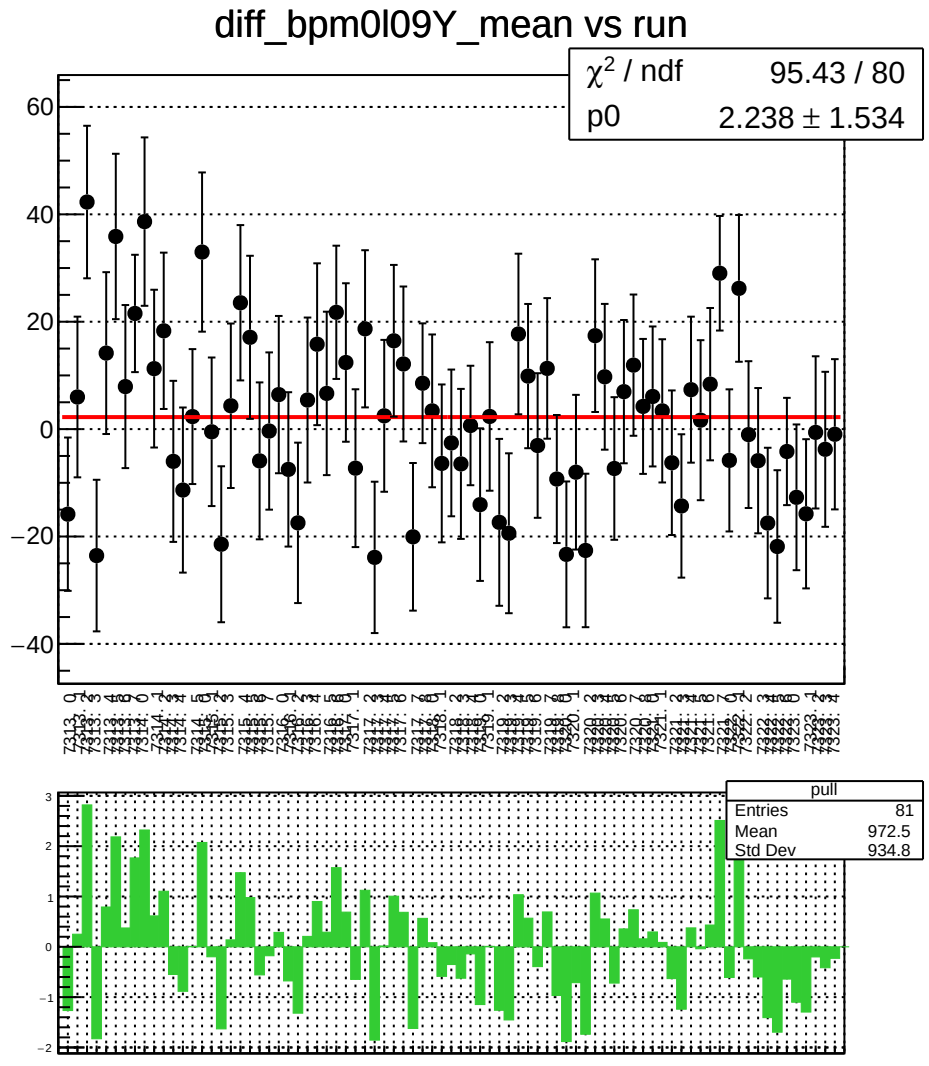

pull1D
Entries 81
Mean −0.006603
Std Dev 1.126

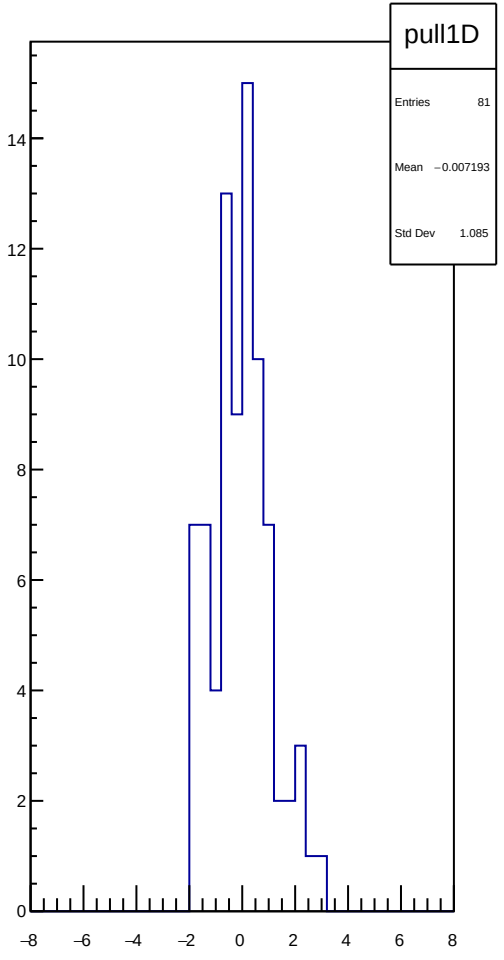

diff_bpm0l08Y_rms vs run
χ² / ndf 3342 / 80
p0 1297 ± 1.043
1450
1400
1350
1300
1250
1200

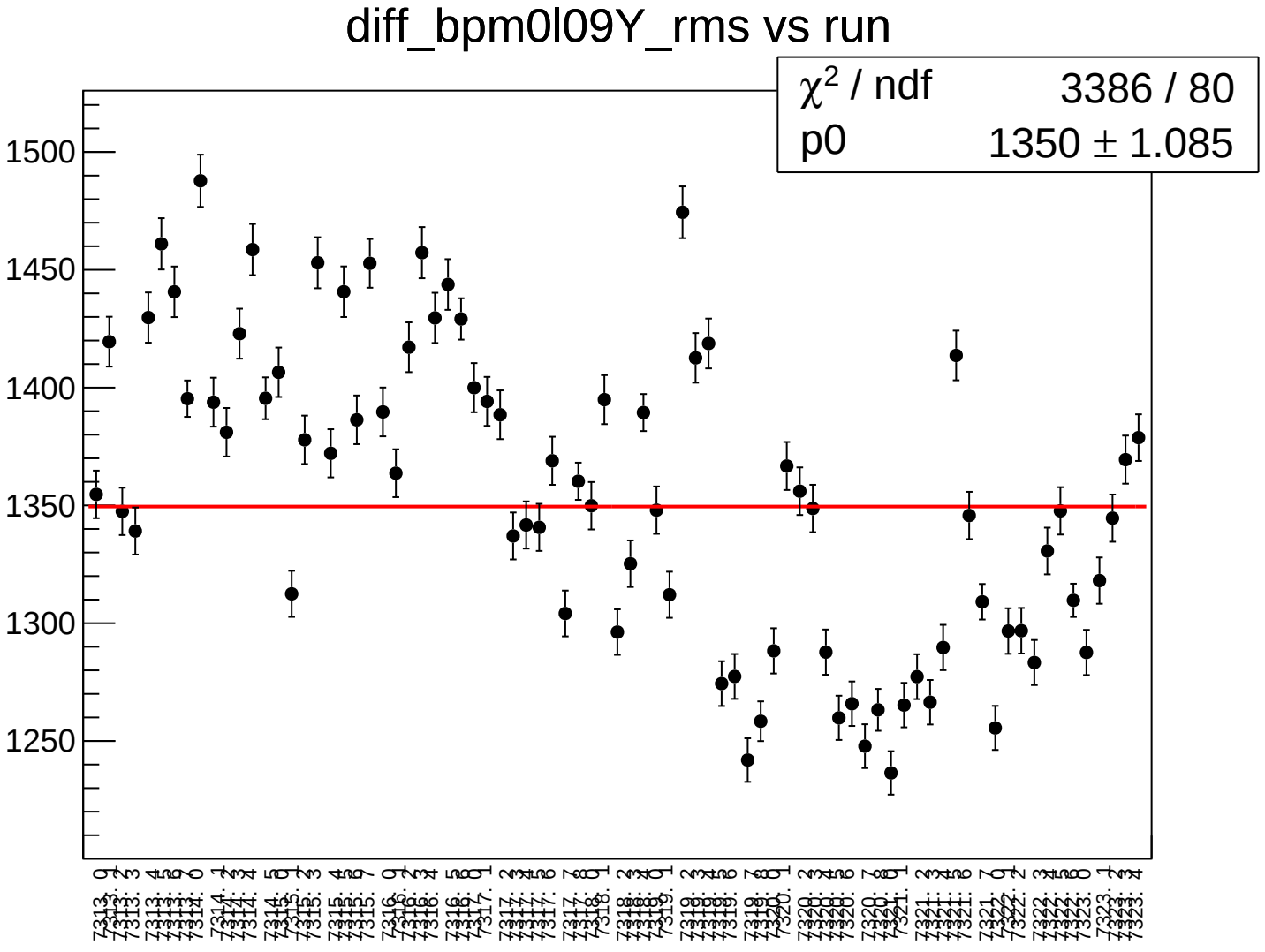

diff_bpm0l09X_mean vs run
χ² / ndf 82.95 / 80
p0 −3.708 ± 10.14
pull
Entries 81
Mean −530
Std Dev 549.7

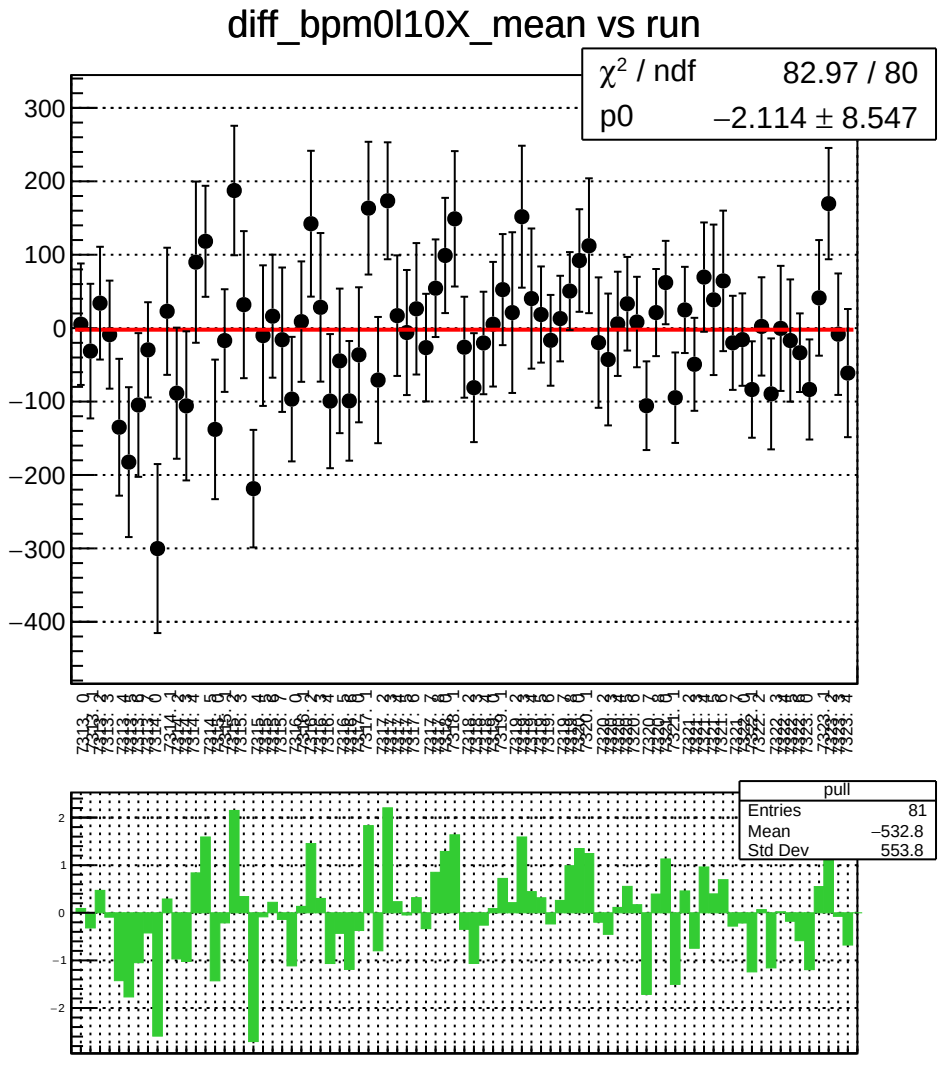

pull1D
Entries 81
Mean −0.005251
Std Dev 1.012

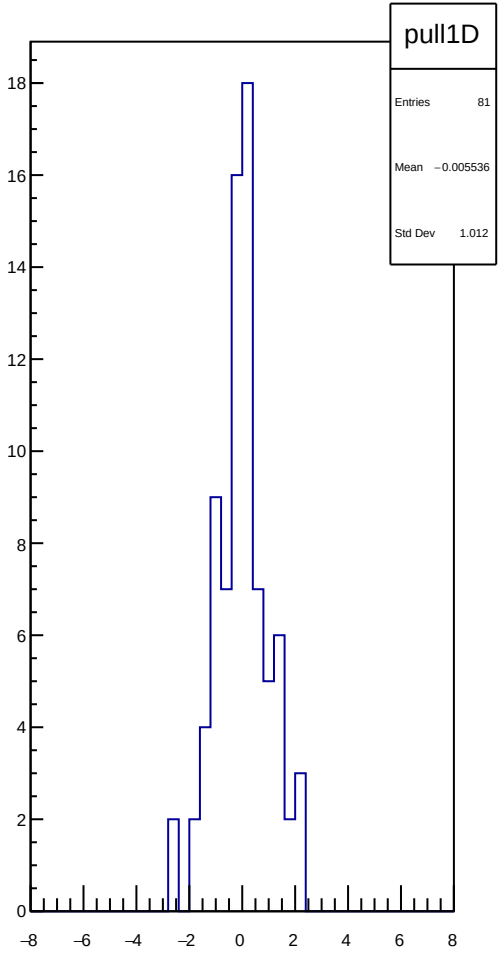

diff_bpm0l09X_rms vs run
χ² / ndf 4.706e+04 / 80
p0 8790 ± 7.168
13000
12000
11000
10000
9000
8000
7000
6000

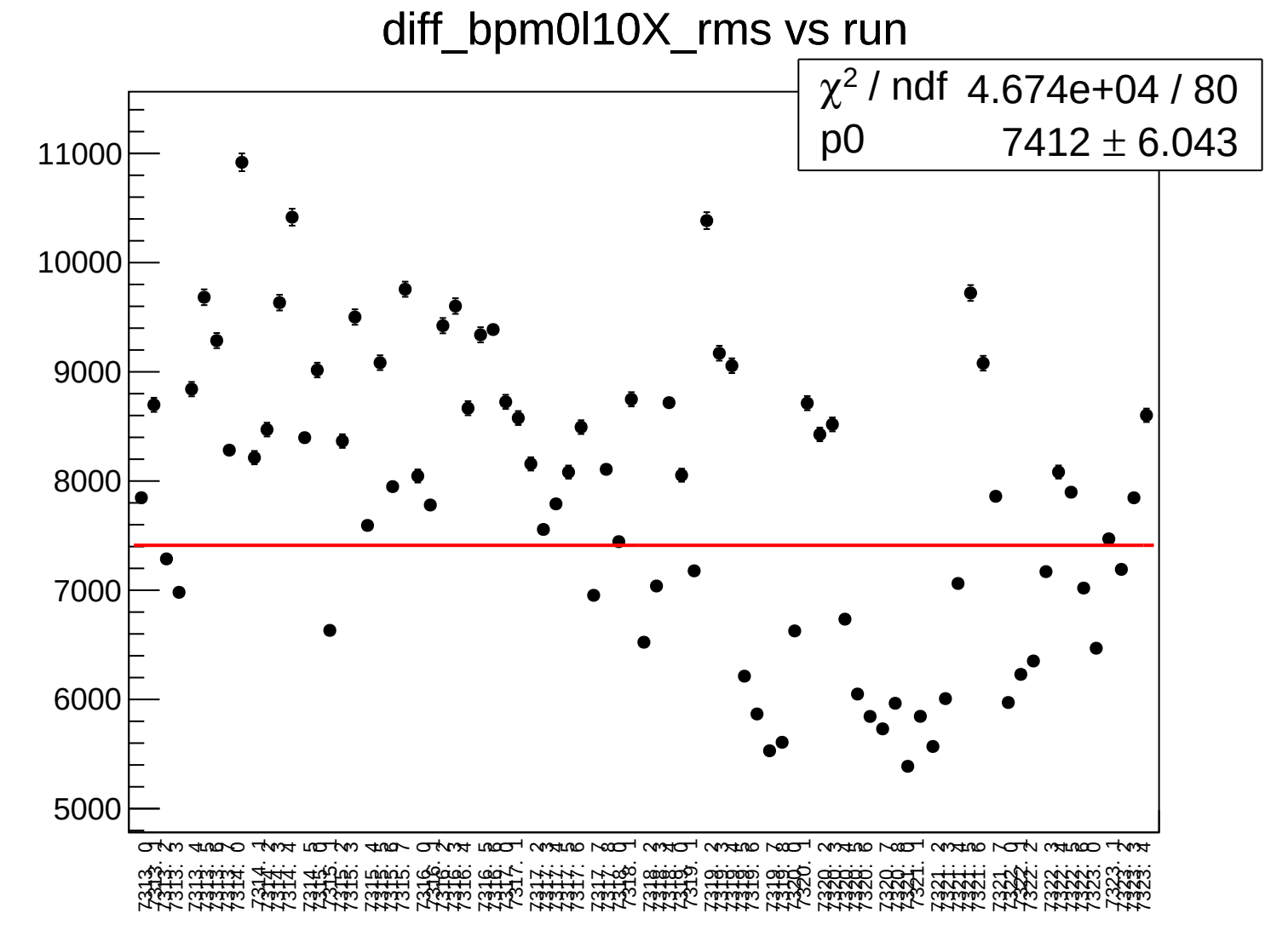

diff_bpm0l09Y_mean vs run
χ² / ndf 95.43 / 80
p0 2.238 ± 1.534
pull
Entries 81
Mean 972.5
Std Dev 934.8

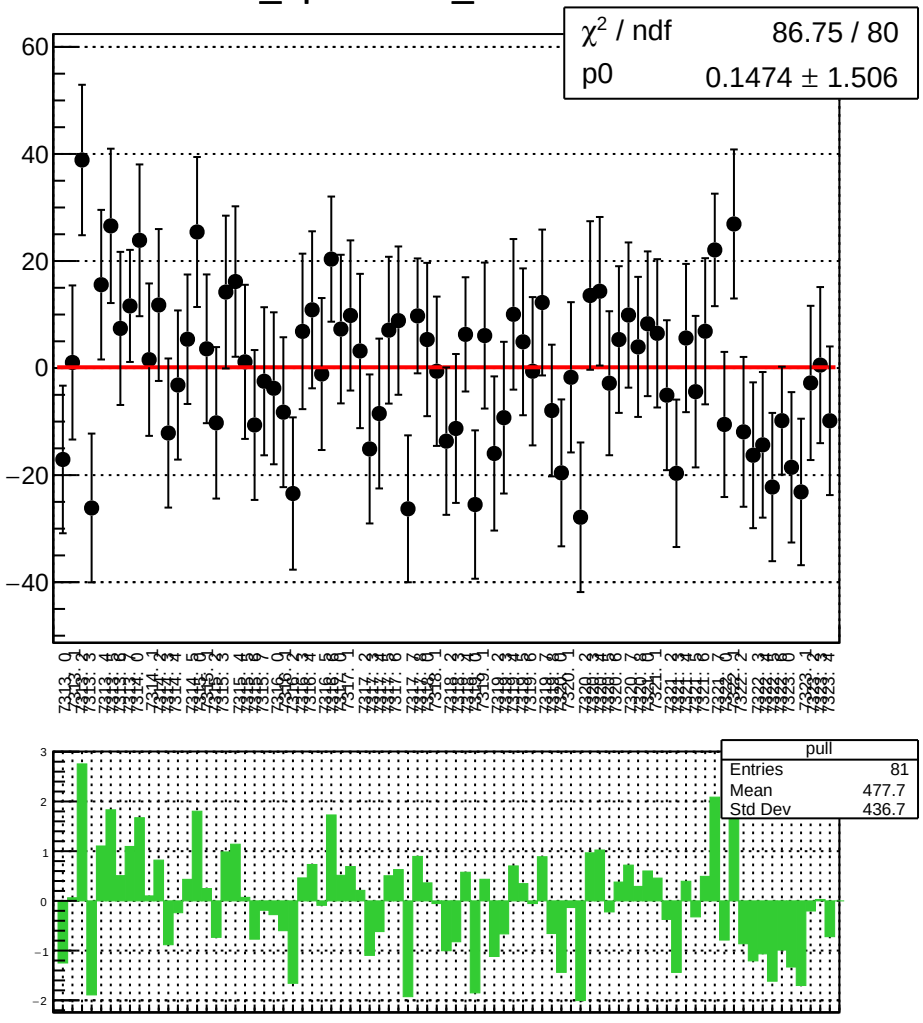

pull1D
Entries 81
Mean −0.007193
Std Dev 1.085

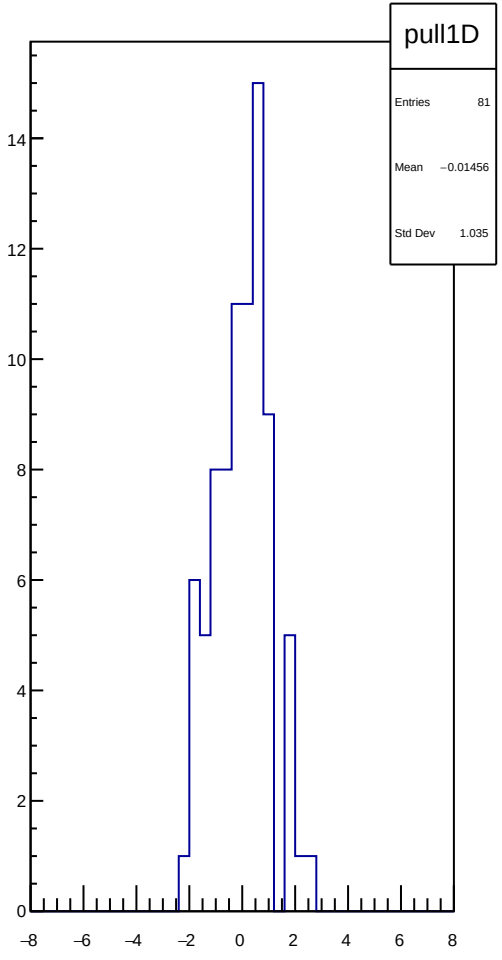

diff_bpm0l09Y_rms vs run
χ² / ndf 3386 / 80
p0 1350 ± 1.085
1500
1450
1400
1350
1300
1250

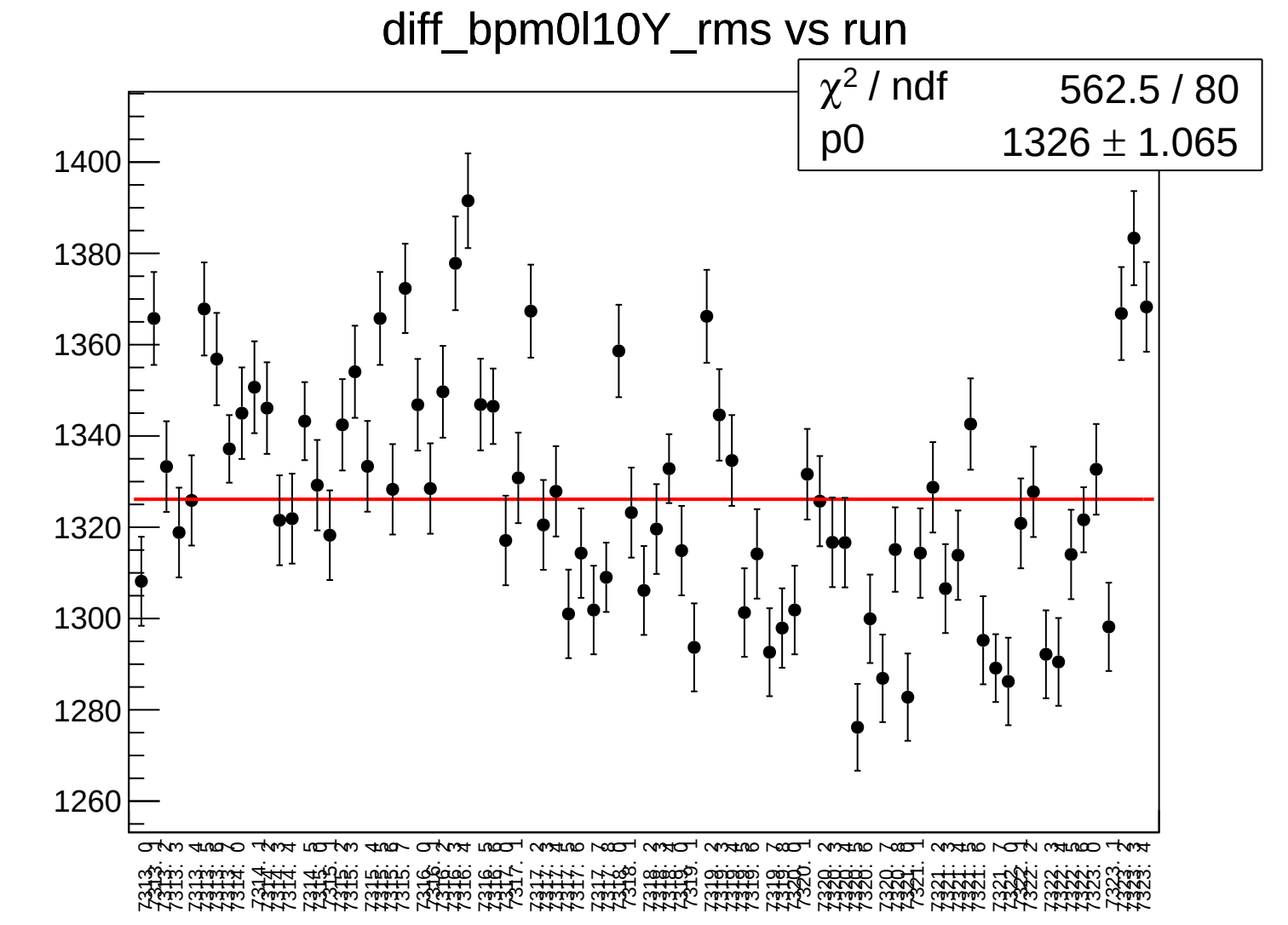

diff_bpm0l10X_mean vs run
χ² / ndf 82.97 / 80
p0 −2.114 ± 8.547
pull
Entries 81
Mean −532.8
Std Dev 553.8

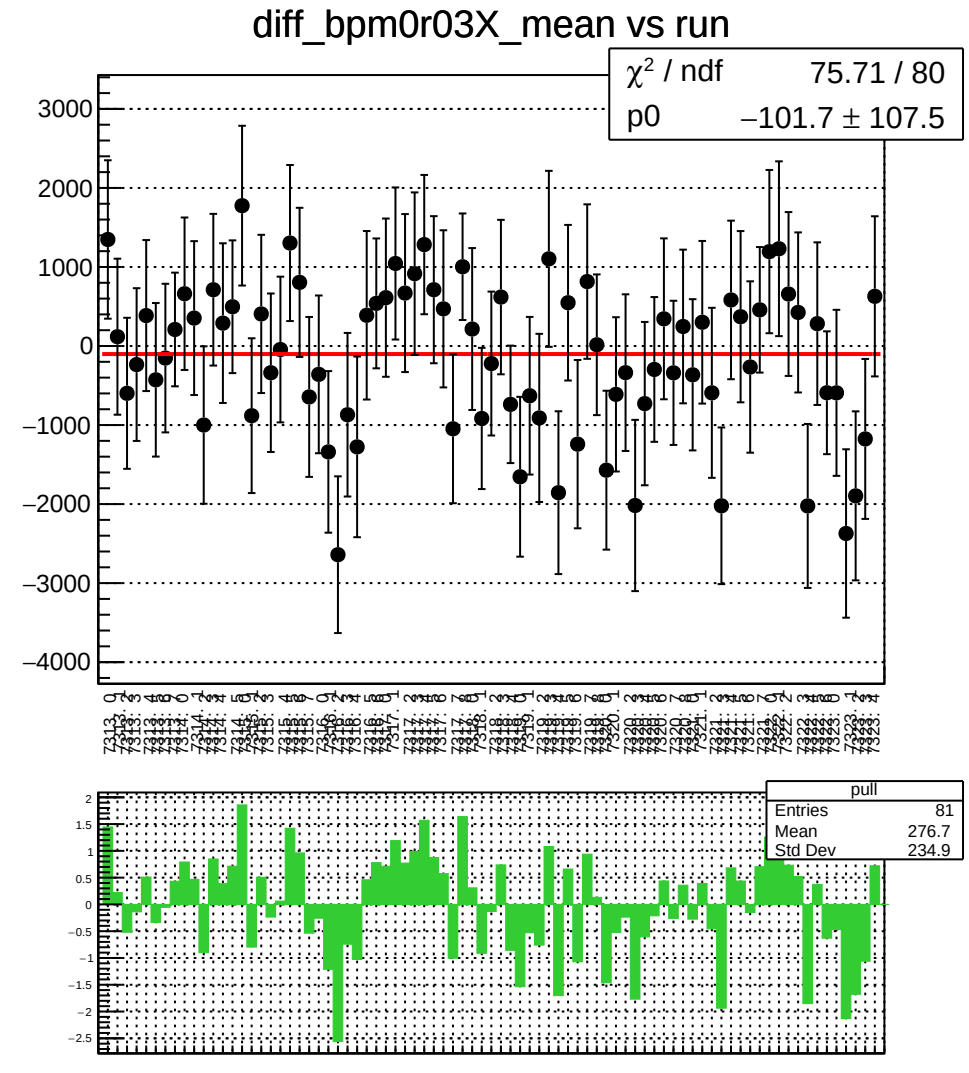

pull1D
Entries 81
Mean −0.005536
Std Dev 1.012

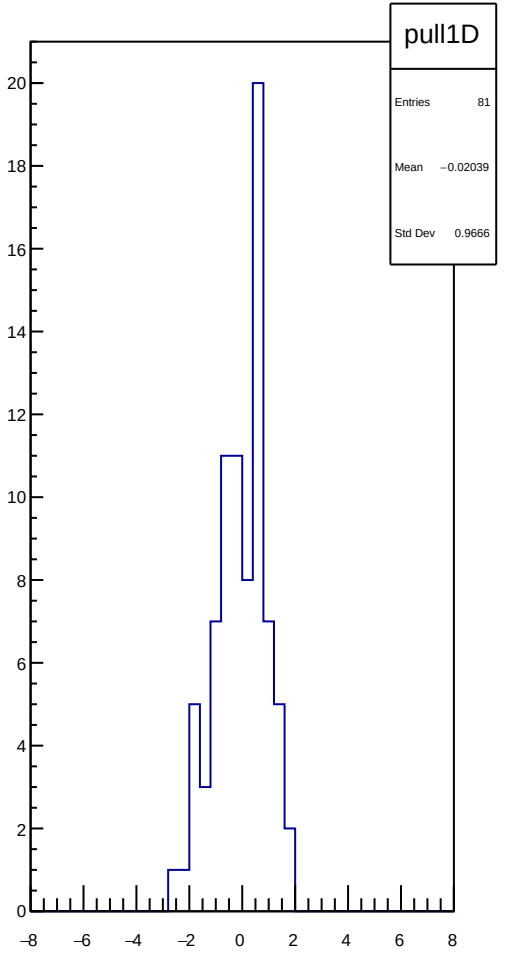

diff_bpm0l10X_rms vs run
χ² / ndf 4.674e+04 / 80
p0 7412 ± 6.043
11000
10000
9000
8000
7000
6000
5000

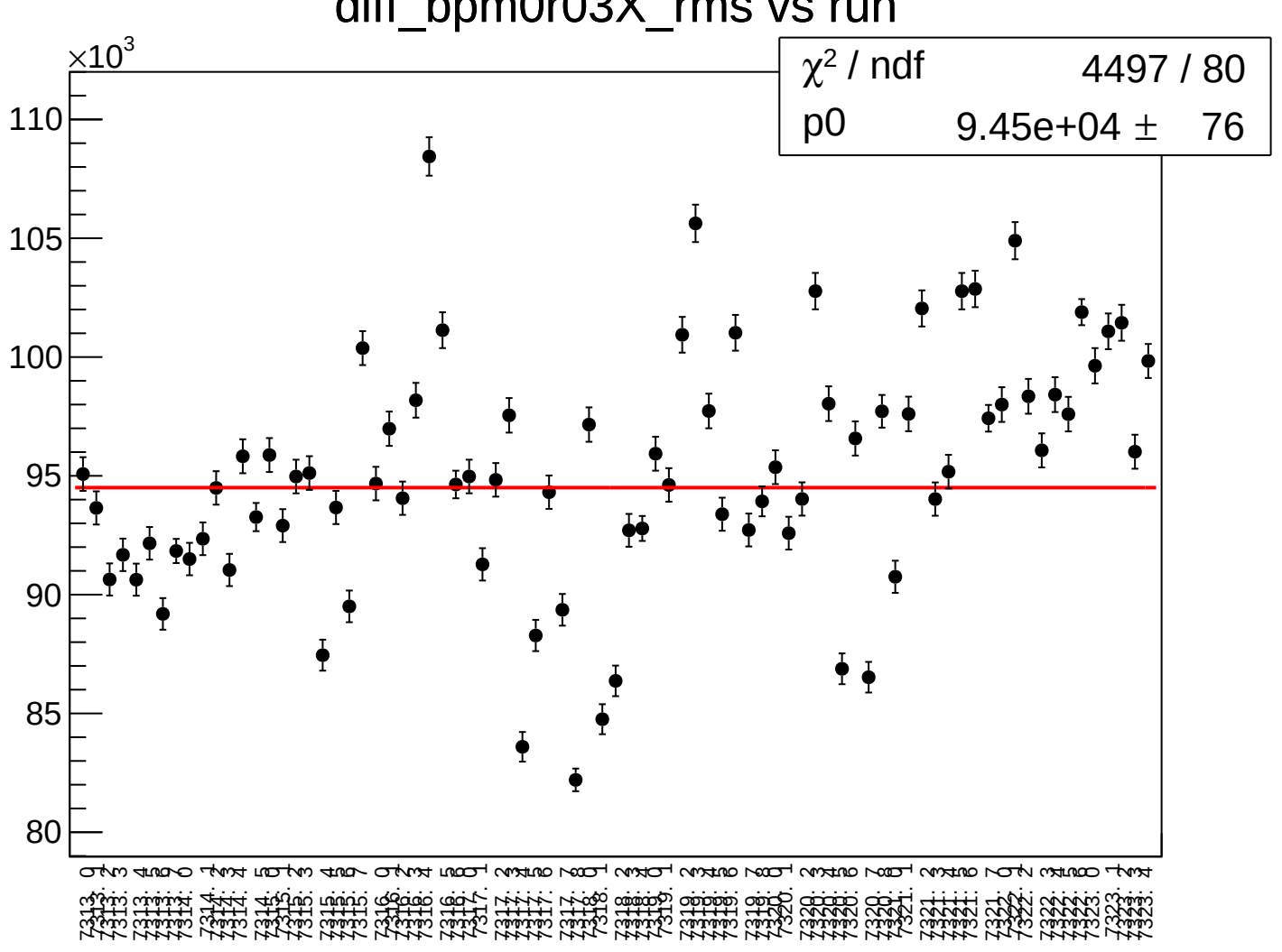

diff_bpm0l10Y_mean vs run
χ² / ndf 86.75 / 80
p0 0.1474 ± 1.506
pull
Entries 81
Mean 477.7
Std Dev 436.7

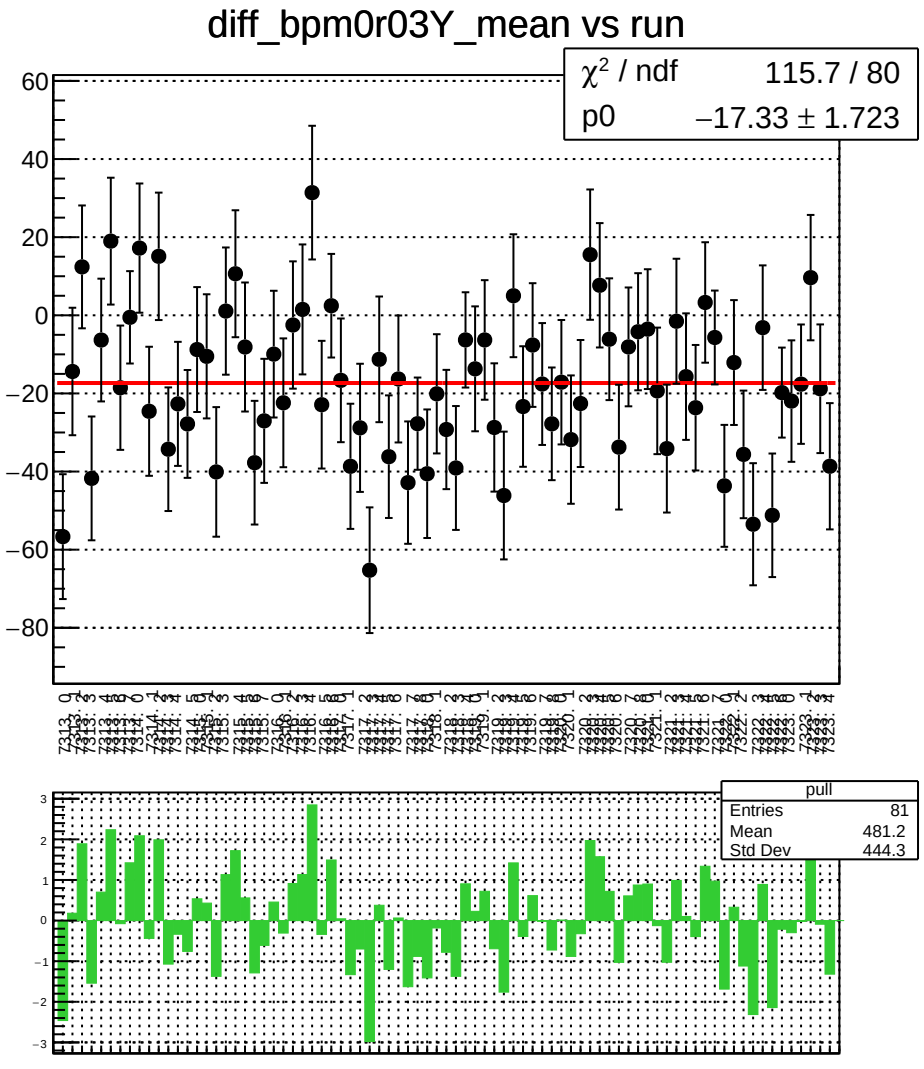

pull1D
Entries 81
Mean −0.01456
Std Dev 1.035

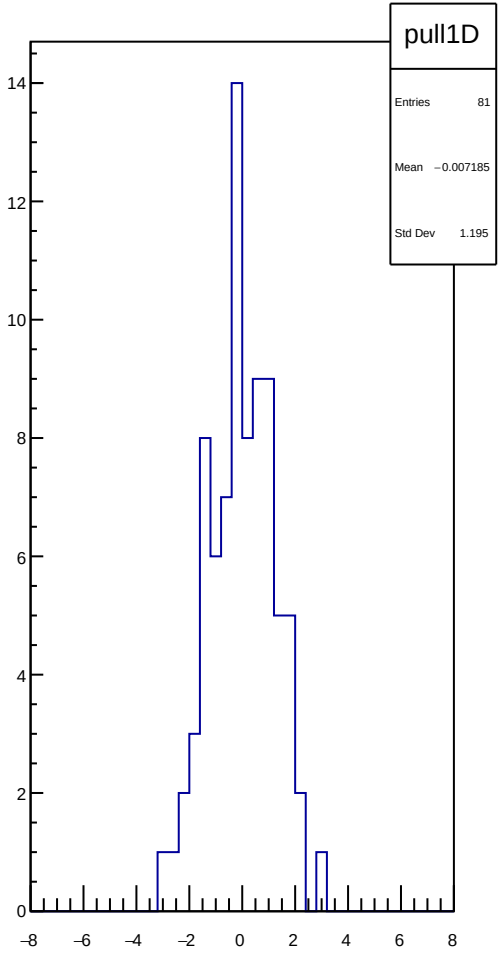

diff_bpm0l10Y_rms vs run
χ² / ndf 562.5 / 80
p0 1326 ± 1.065
1400
1380
1360
1340
1320
1300
1280
1260

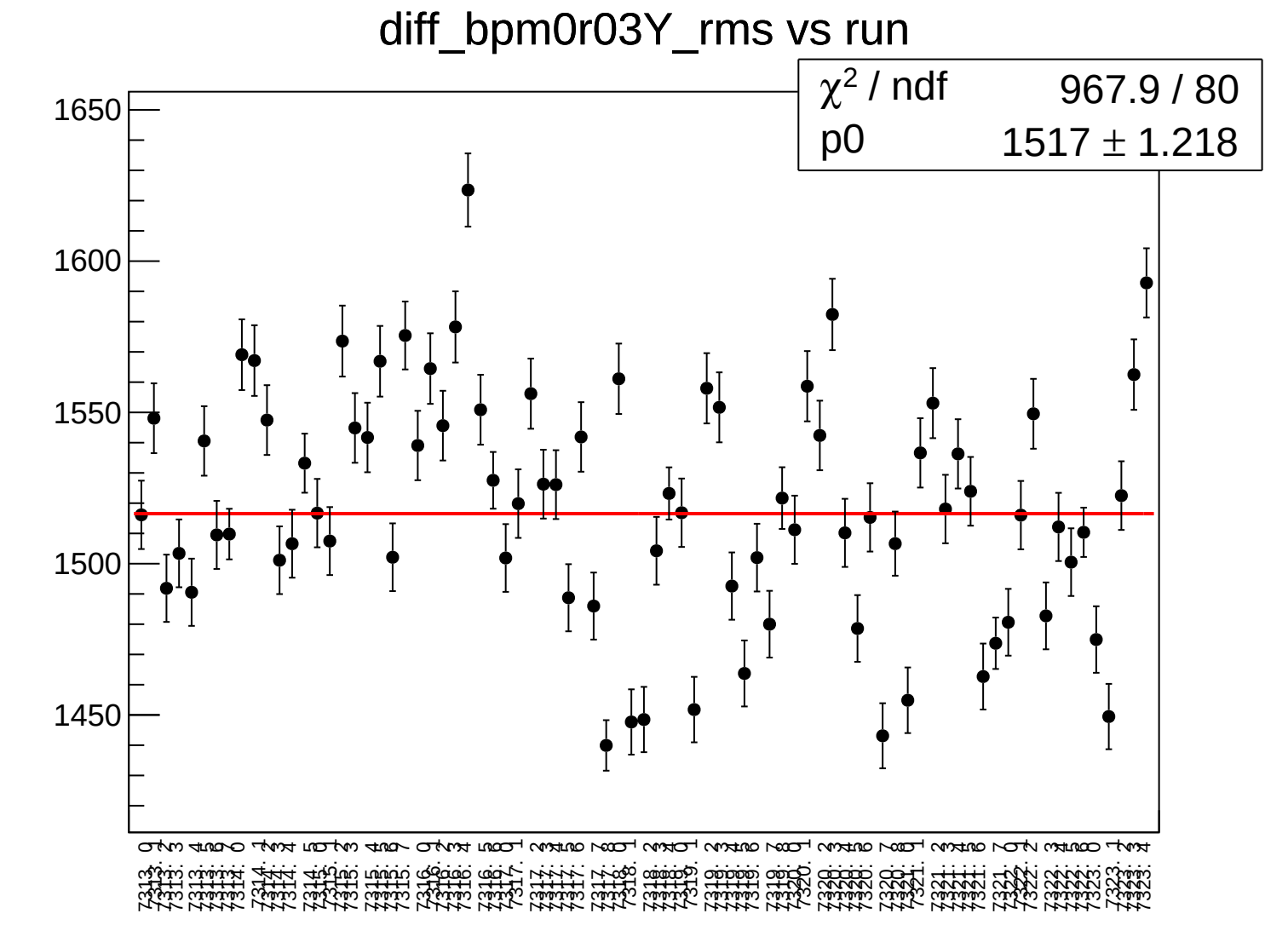

diff_bpm0r03X_mean vs run
χ² / ndf 75.71 / 80
p0 −101.7 ± 107.5
pull
Entries 81
Mean 276.7
Std Dev 234.9

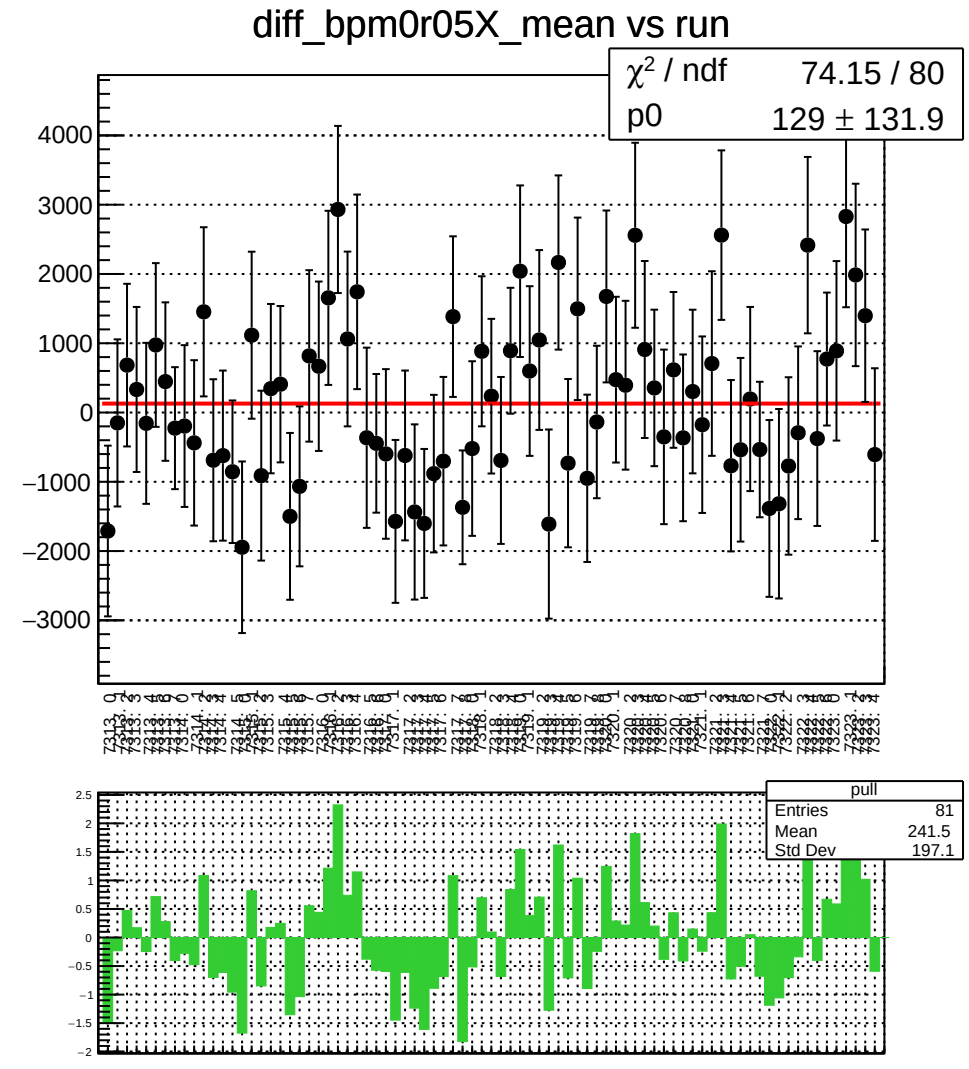

pull1D
Entries 81
Mean −0.02039
Std Dev 0.9666

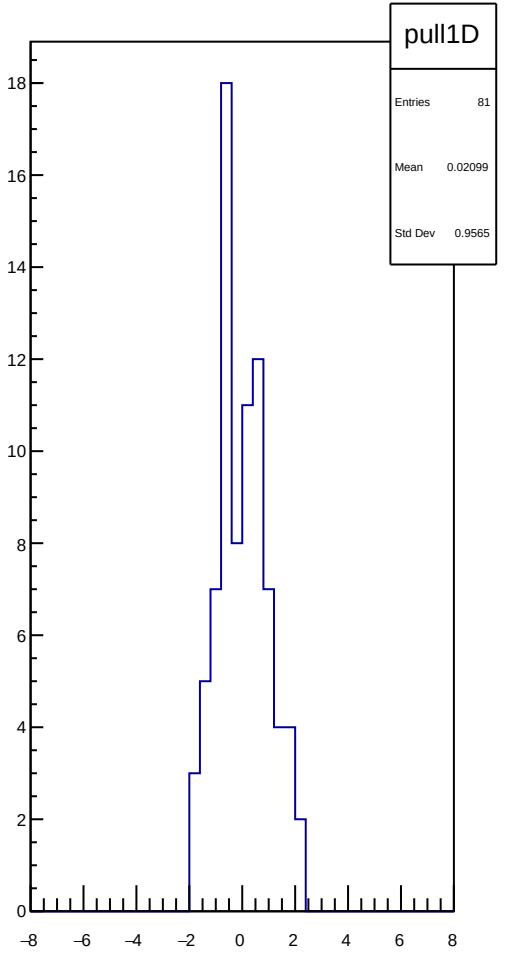

diff_bpm0r03X_rms vs run
×10^3
110
105
100
95
90
85
80
χ² / ndf 4497 / 80
p0 9.45e+04 ± 76

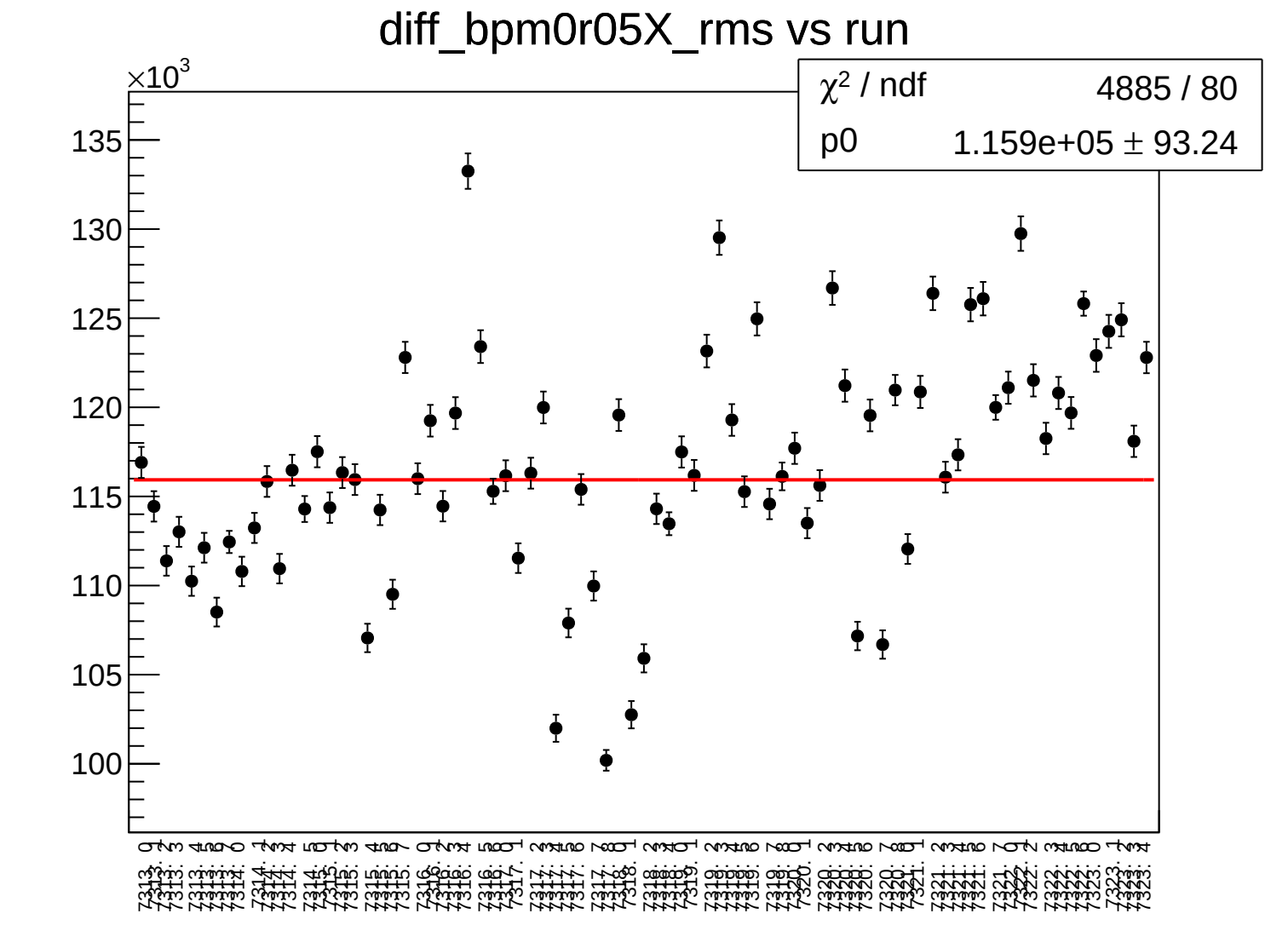

diff_bpm0r03Y_mean vs run
χ^2 / ndf 115.7 / 80
p0 −17.33 ± 1.723
pull
Entries 81
Mean 481.2
Std Dev 444.3

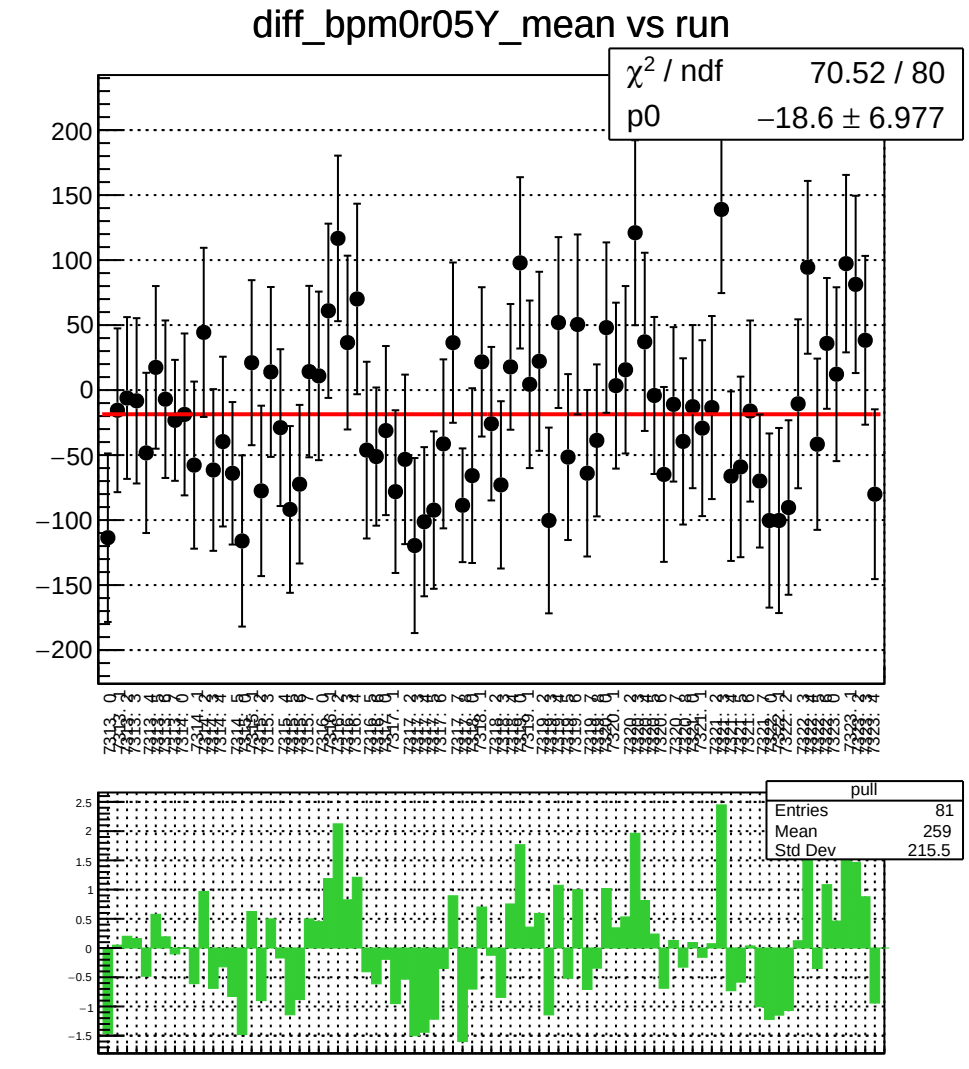

pull1D
Entries 81
Mean −0.007185
Std Dev 1.195

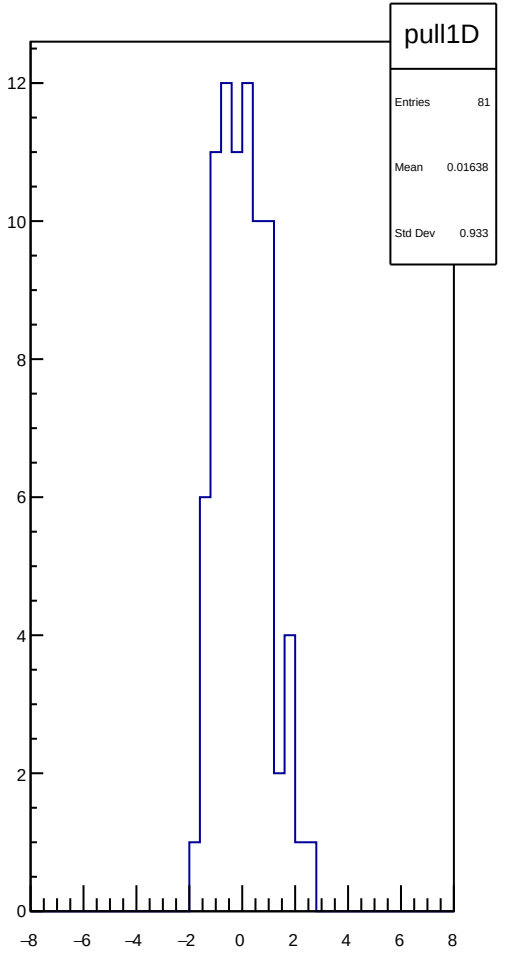

diff_bpm0r03Y_rms vs run
χ² / ndf 967.9 / 80
p0 1517 ± 1.218
1650
1600
1550
1500
1450

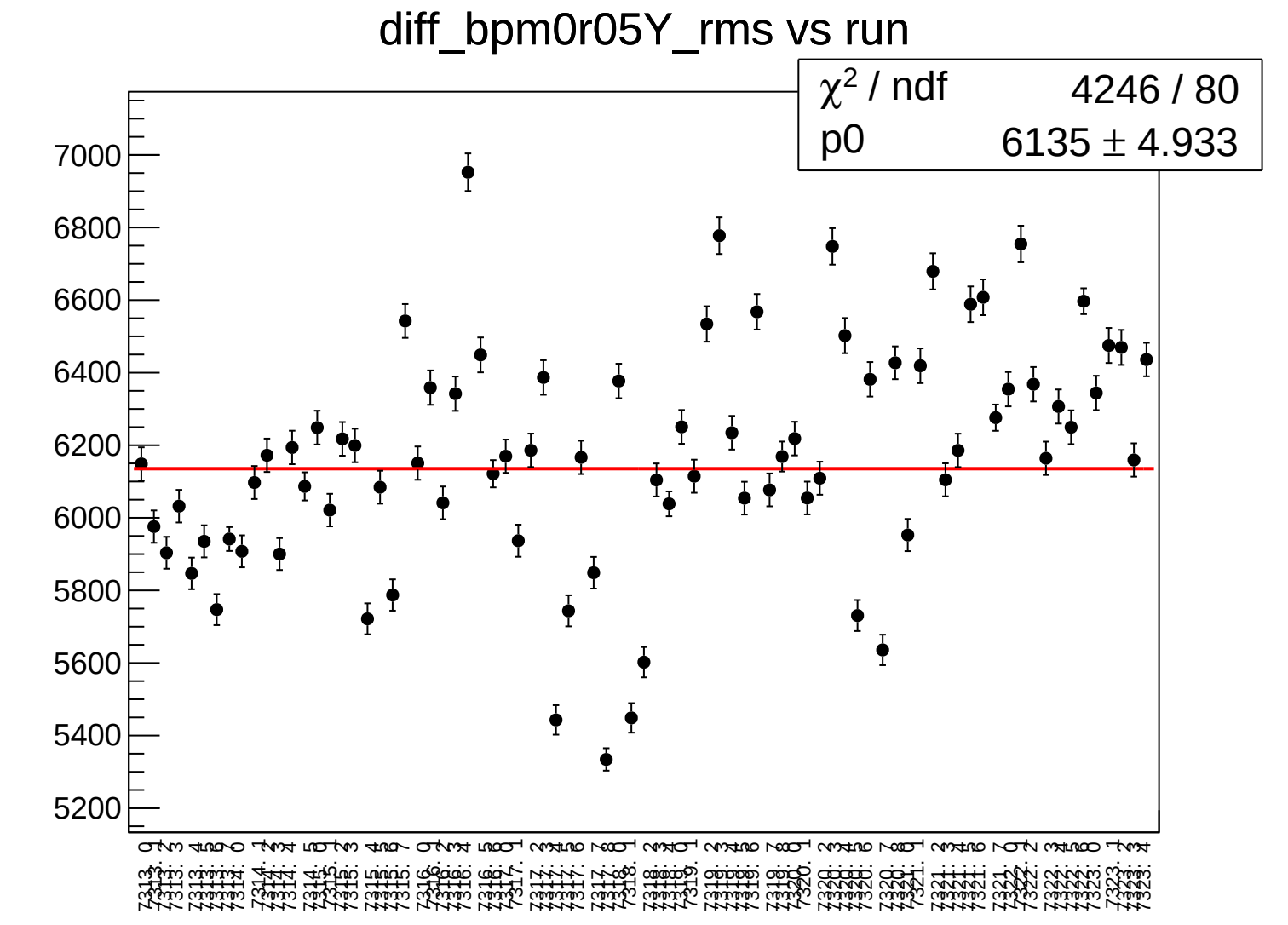

diff_bpm0r05X_mean vs run
χ² / ndf 74.15 / 80
p0 129 ± 131.9
pull
Entries 81
Mean 241.5
Std Dev 197.1

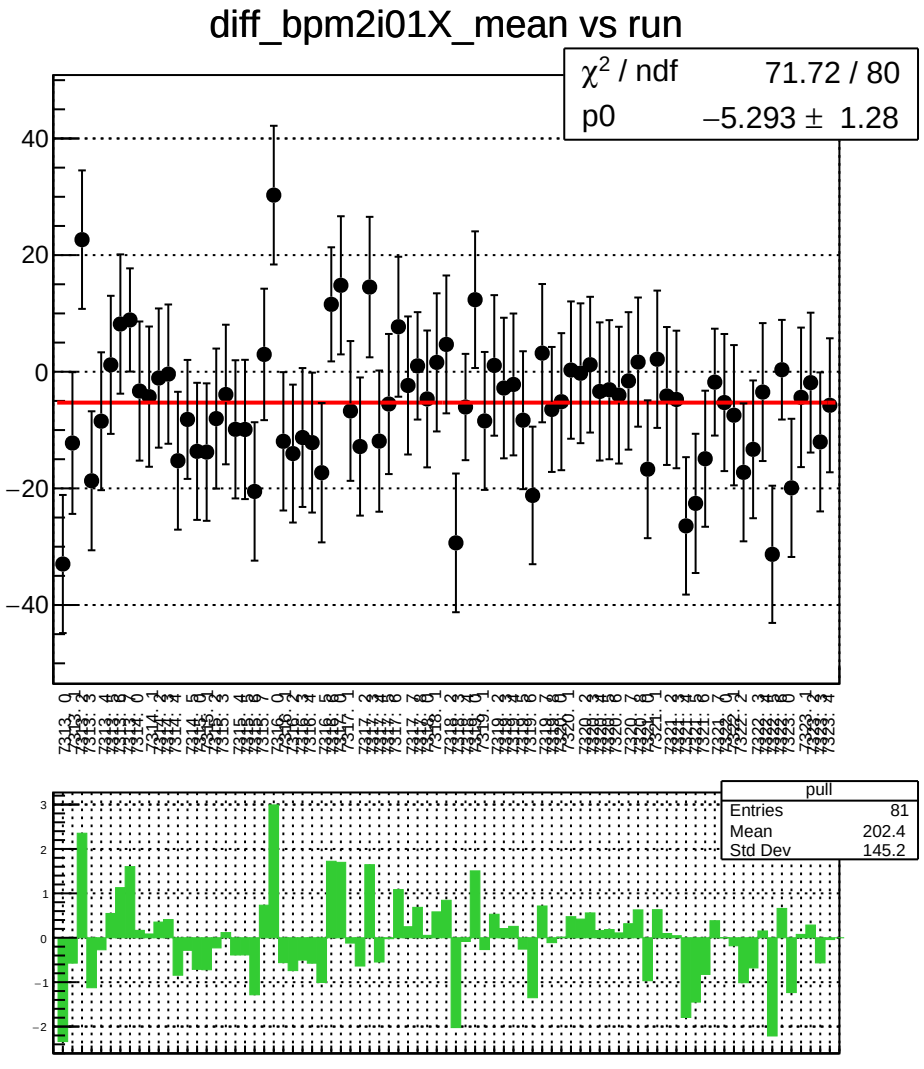

pull1D
Entries 81
Mean 0.02099
Std Dev 0.9565

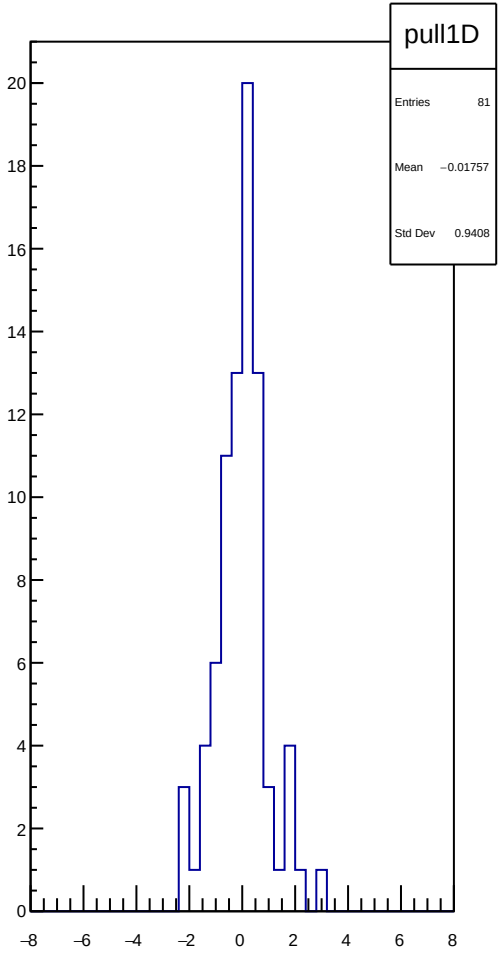

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 4885 / 80
p0 1.159e+05 ± 93.24
135
130
125
120
115
110
105
100

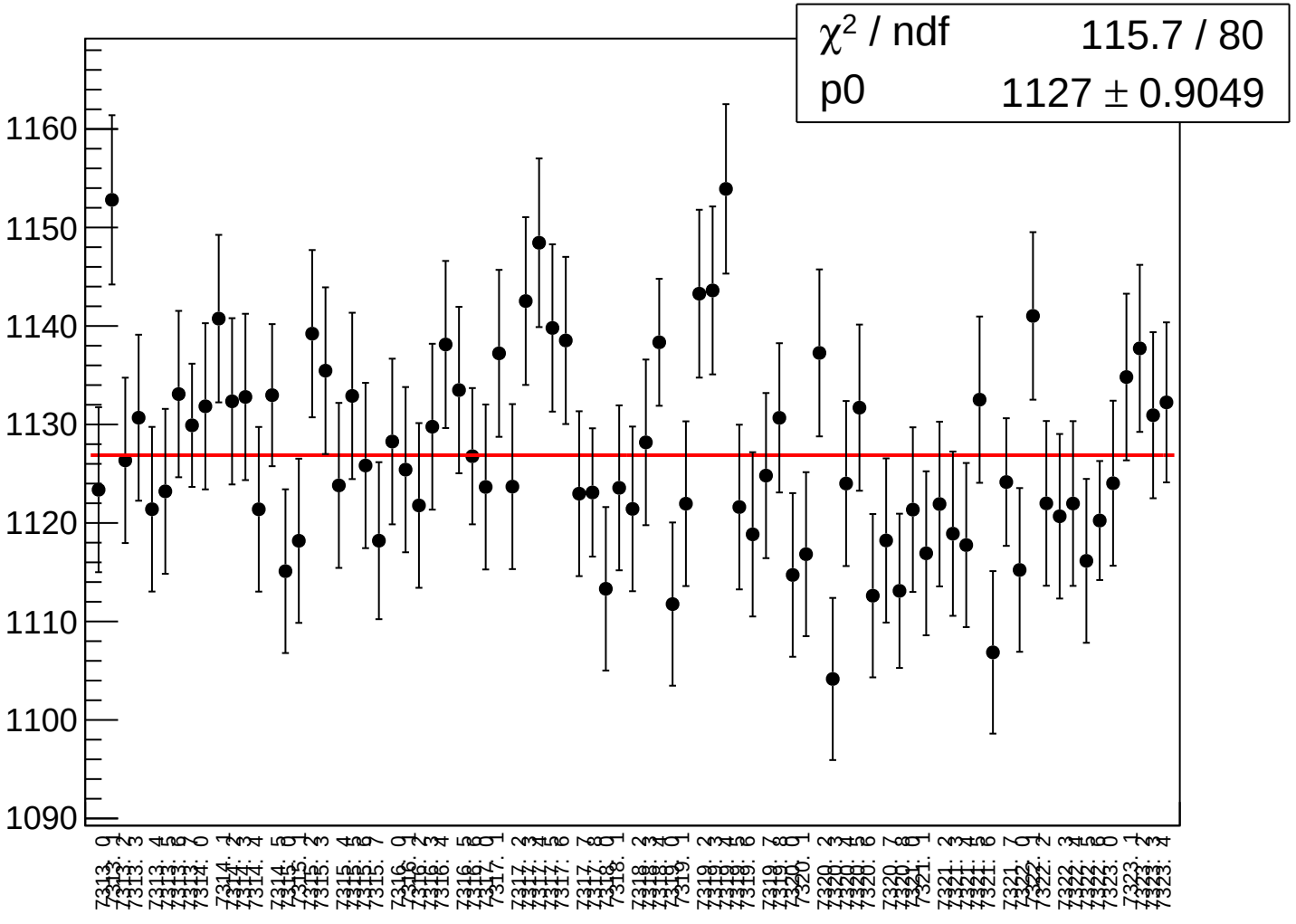

diff_bpm0r05Y_mean vs run
χ² / ndf 70.52 / 80
p0 −18.6 ± 6.977
pull
Entries 81
Mean 259
Std Dev 215.5

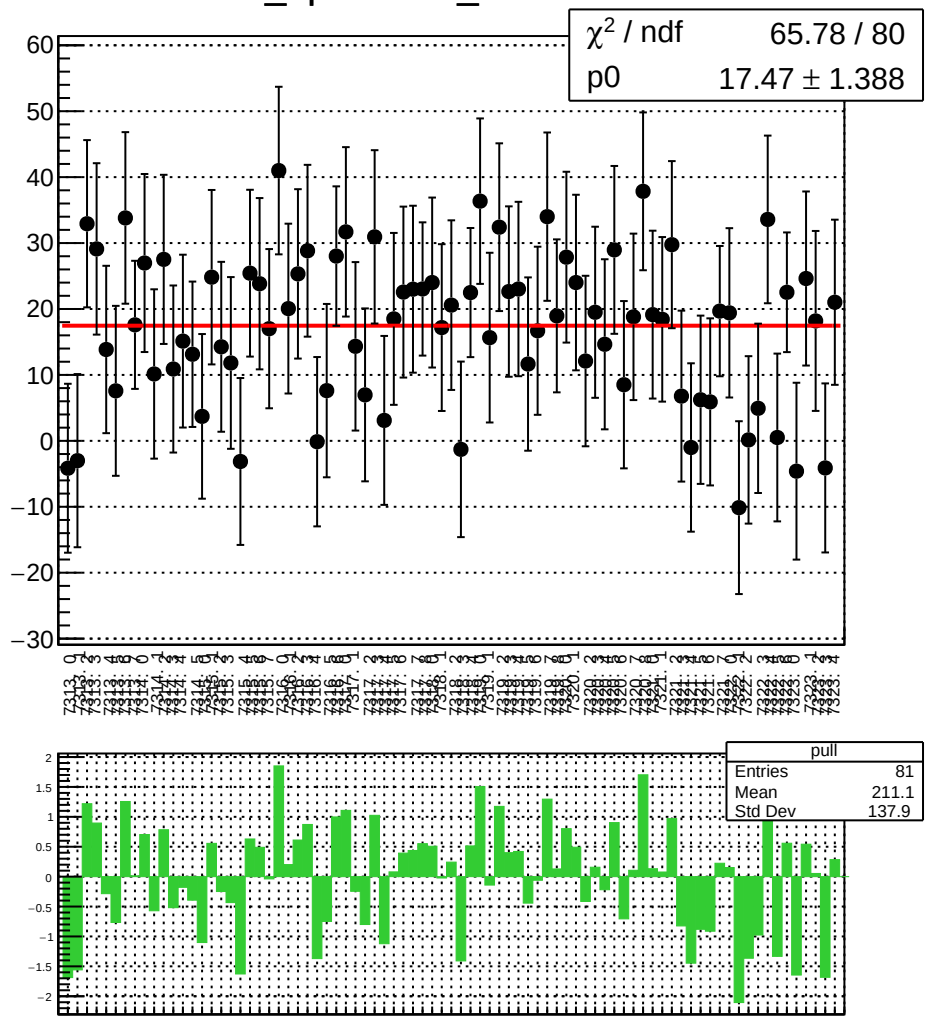

pull1D
Entries 81
Mean 0.01638
Std Dev 0.933

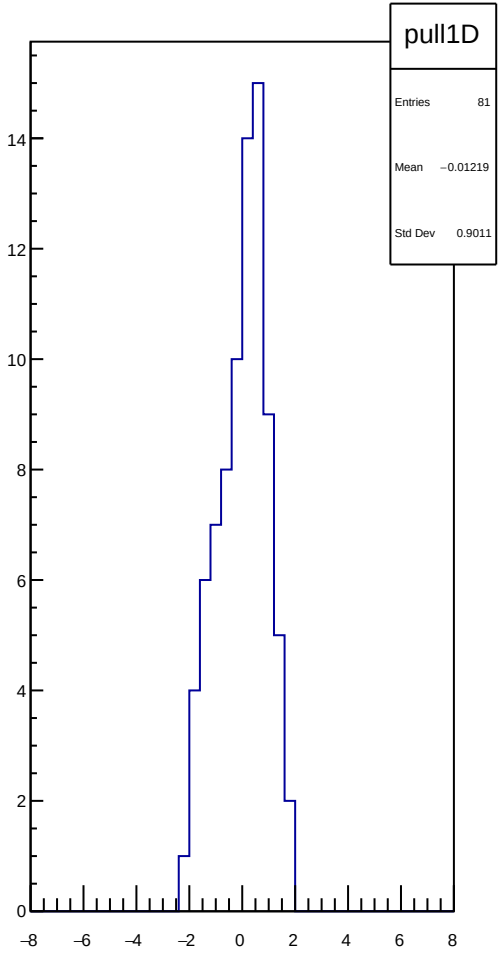

diff_bpm0r05Y_rms vs run
χ^2 / ndf 4246 / 80
p0 6135 ± 4.933
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

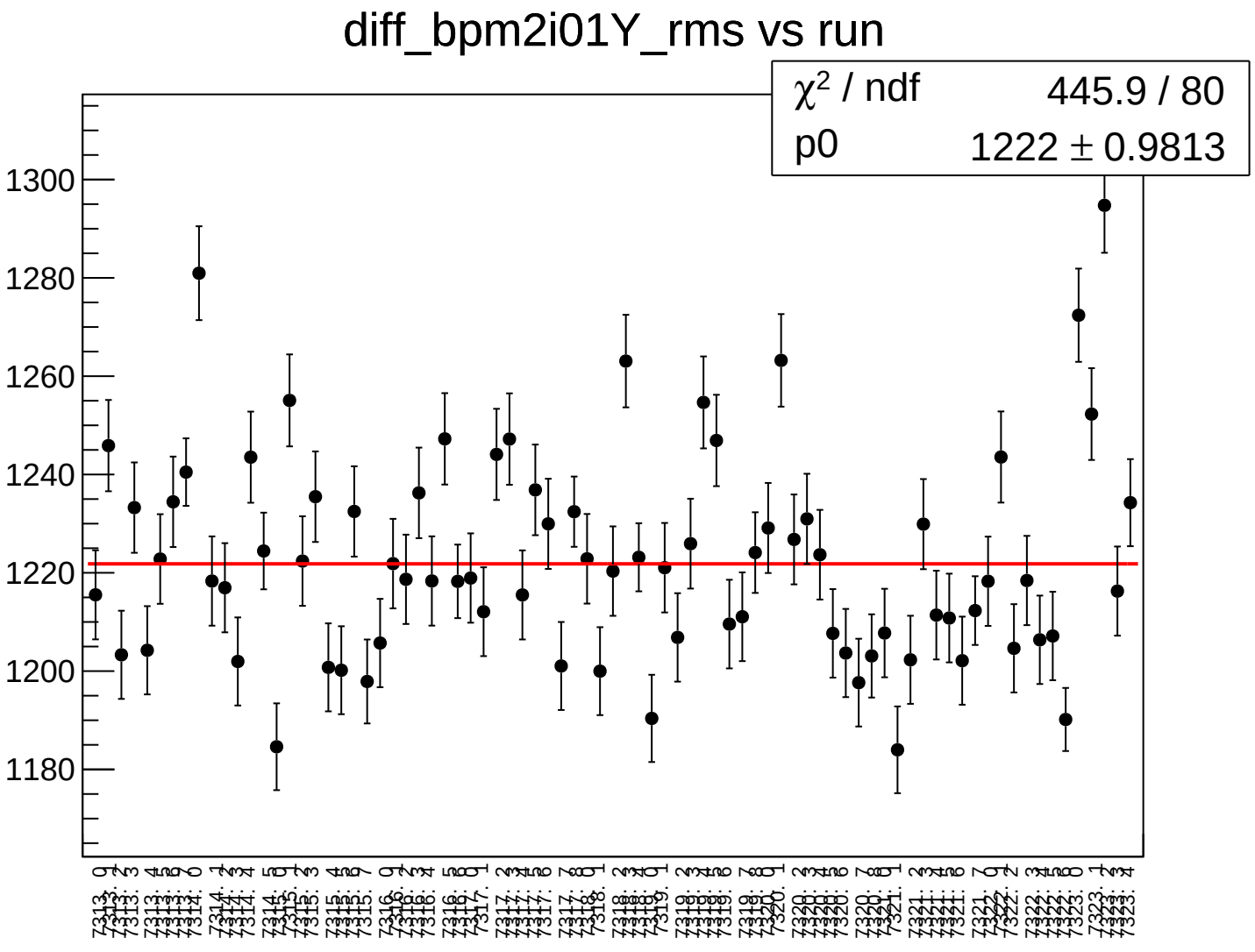

diff_bpm2i01X_mean vs run
χ² / ndf 71.72 / 80
p0 −5.293 ± 1.28
pull
Entries 81
Mean 202.4
Std Dev 145.2

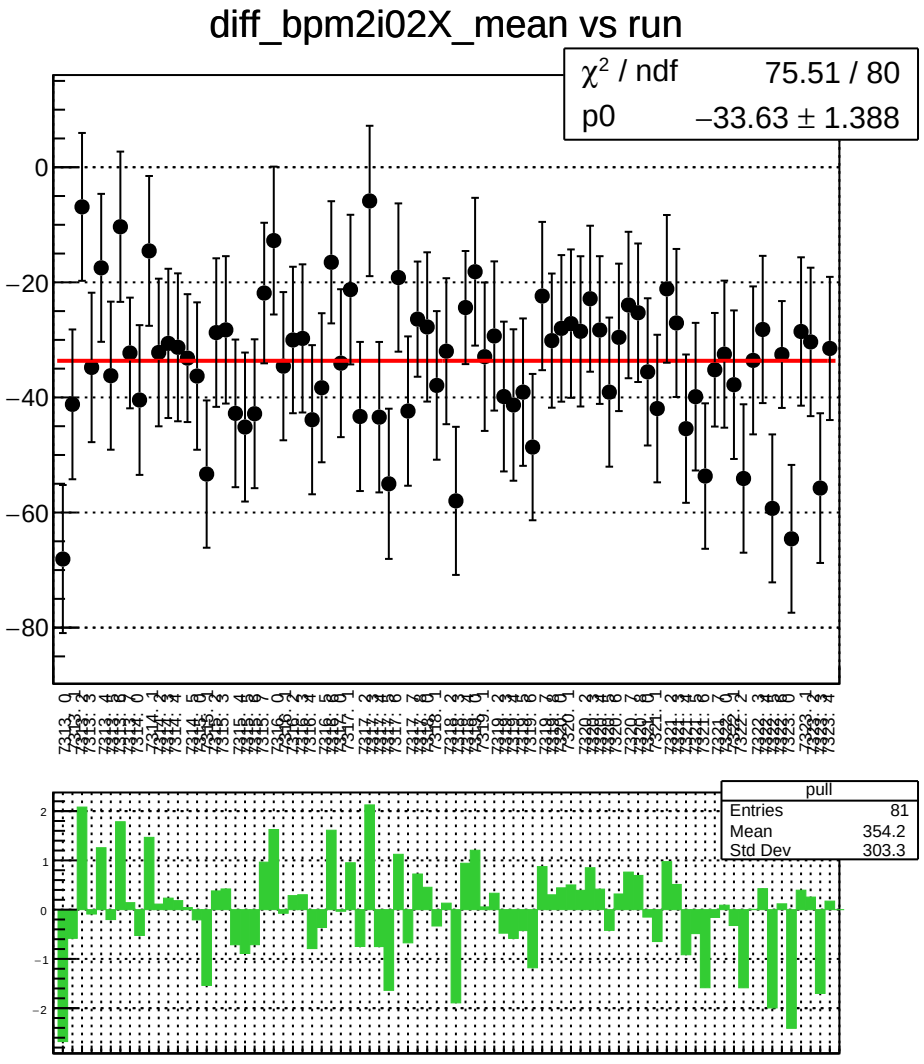

pull1D
Entries 81
Mean −0.01757
Std Dev 0.9408

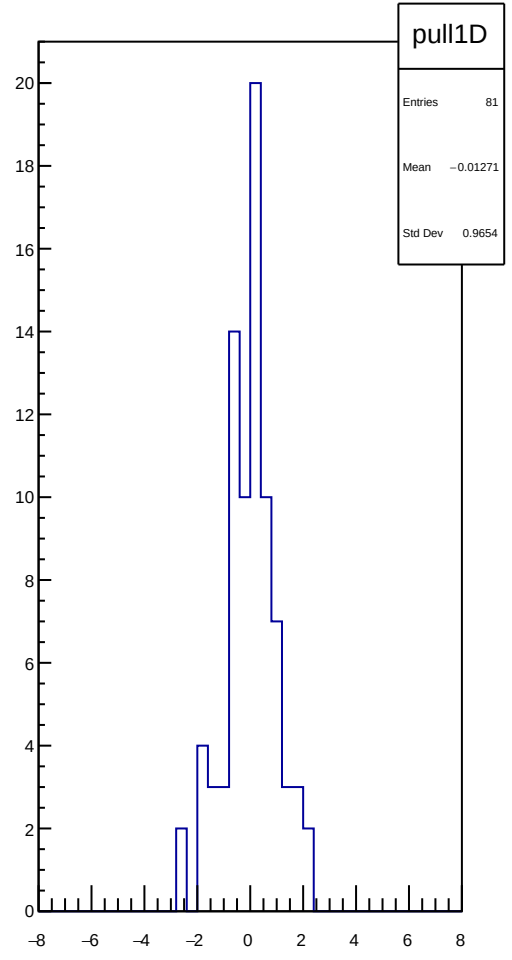

diff_bpm2i01X_rms vs run
χ² / ndf 115.7 / 80
p0 1127 ± 0.9049
1160
1150
1140
1130
1120
1110
1100
1090

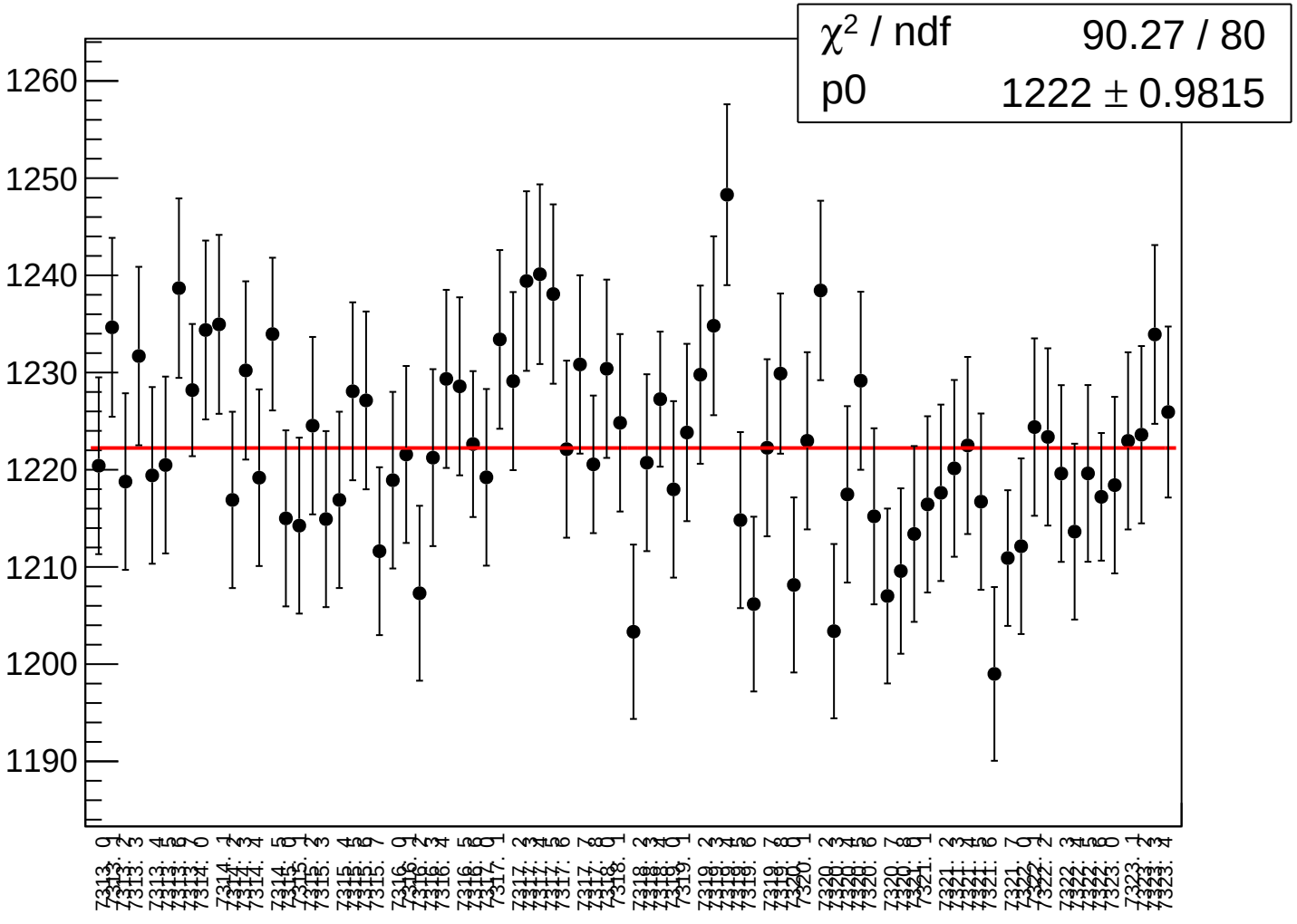

diff_bpm2i01Y_mean vs run
χ^2 / ndf 65.78 / 80
p0 17.47 ± 1.388
pull
Entries 81
Mean 211.1
Std Dev 137.9

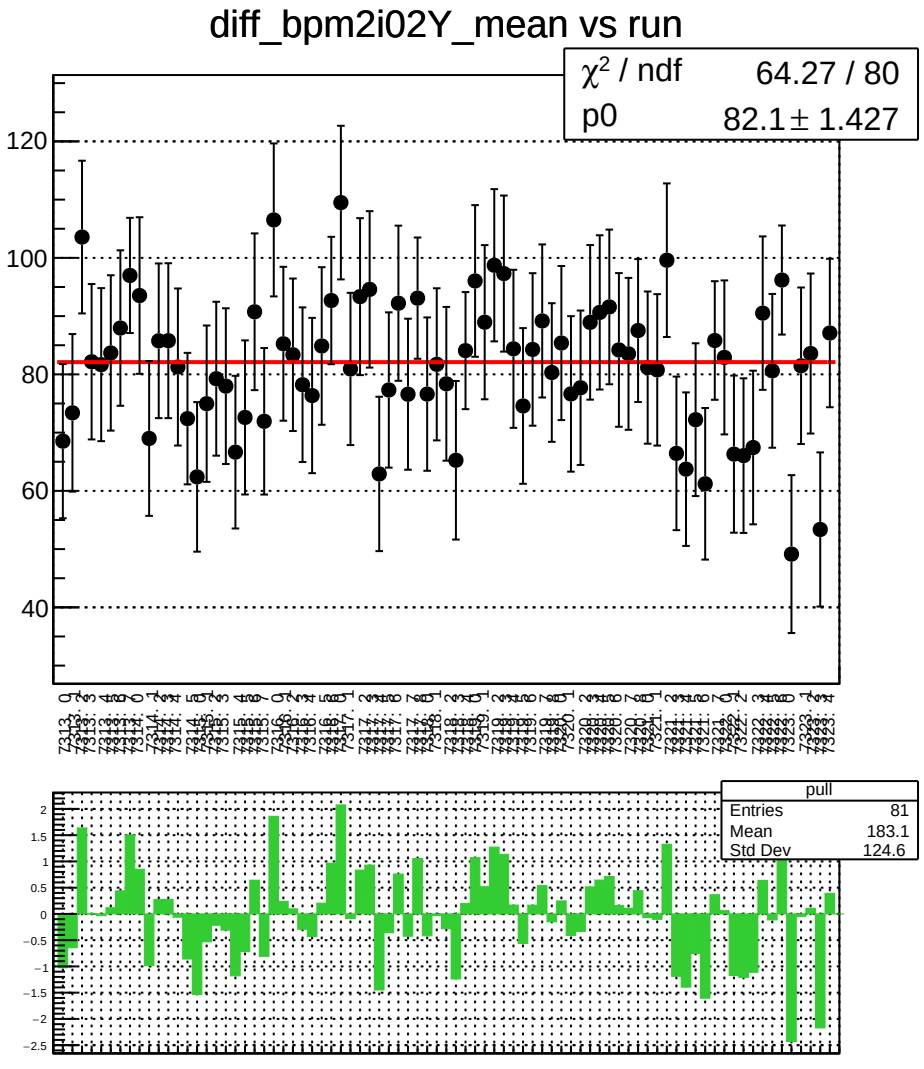

pull1D
Entries 81
Mean −0.01219
Std Dev 0.9011

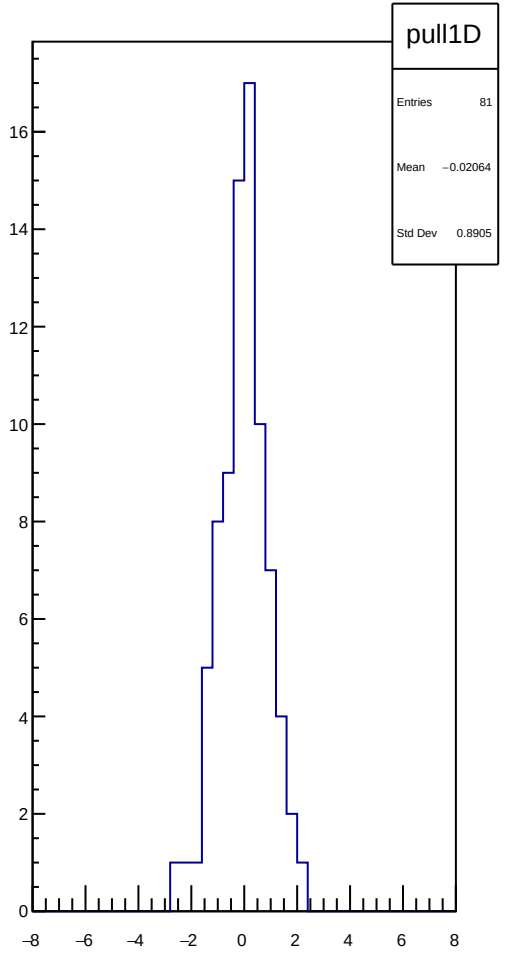

diff_bpm2i01Y_rms vs run
χ² / ndf 445.9 / 80
p0 1222 ± 0.9813
1300
1280
1260
1240
1220
1200
1180

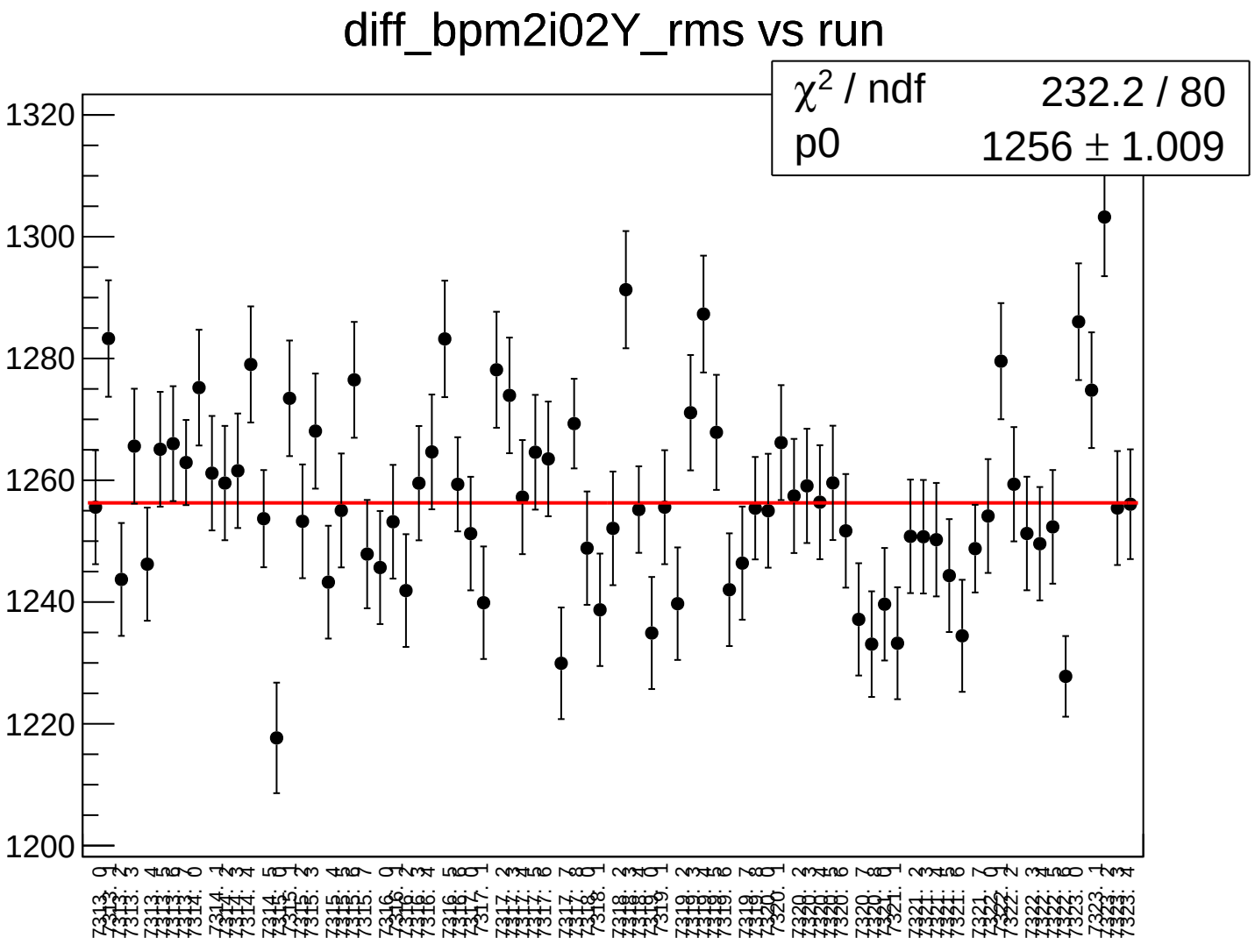

diff_bpm2i02X_mean vs run
χ^2 / ndf 75.51 / 80
p0 −33.63 ± 1.388
pull
Entries 81
Mean 354.2
Std Dev 303.3

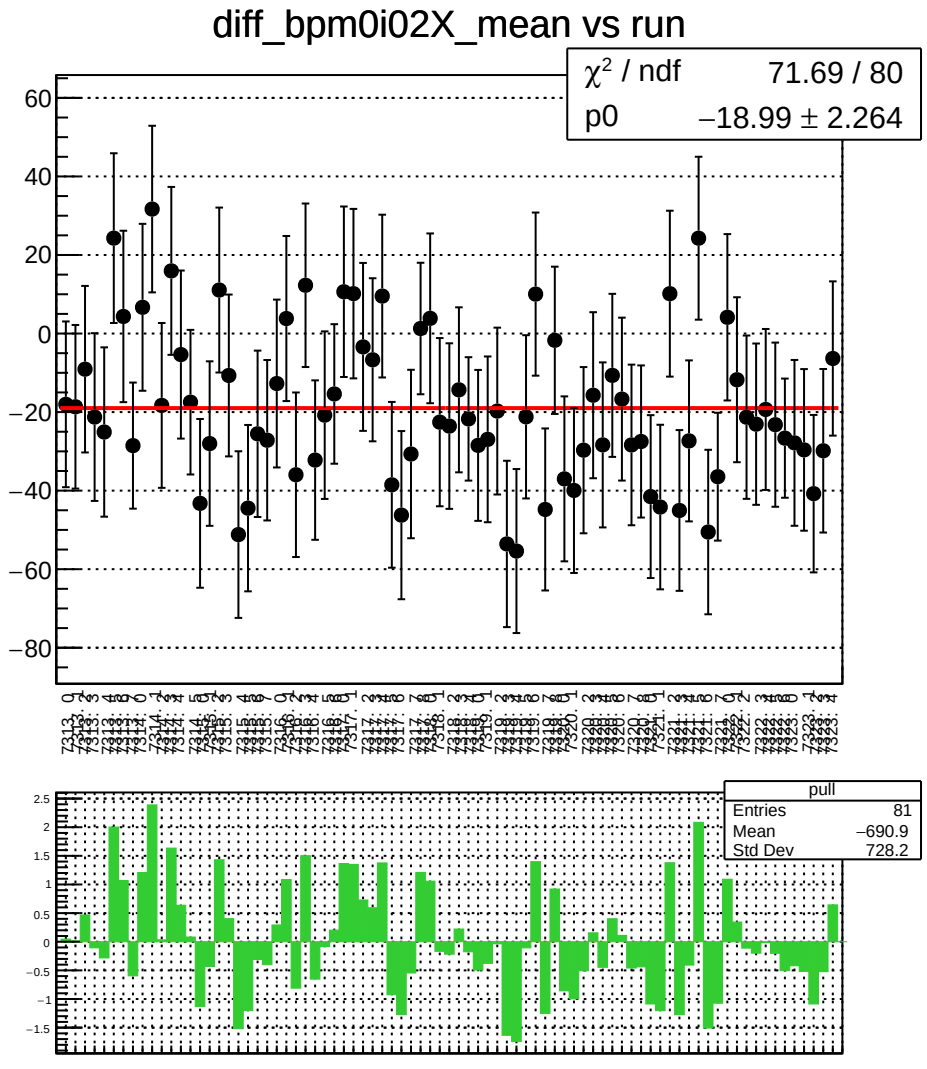

pull1D
Entries 81
Mean −0.01271
Std Dev 0.9654

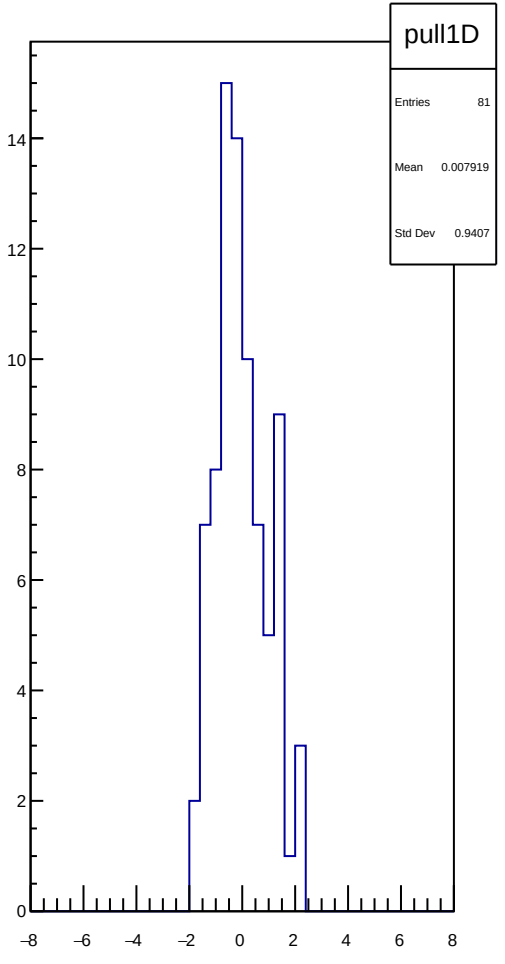

diff_bpm2i02X_rms vs run
χ² / ndf 90.27 / 80
p0 1222 ± 0.9815
1260
1250
1240
1230
1220
1210
1200
1190

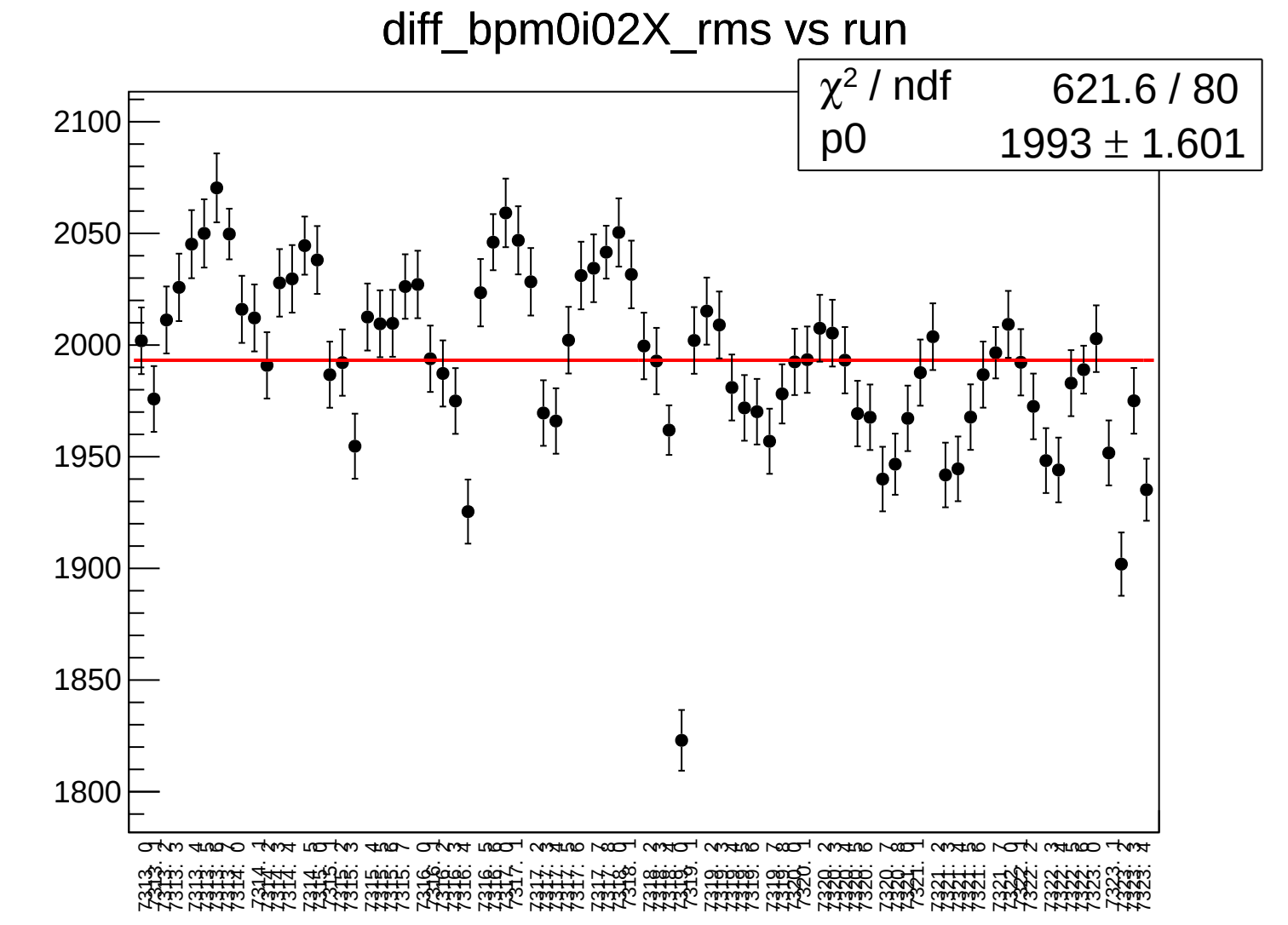

diff_bpm2i02Y_mean vs run
χ² / ndf 64.27 / 80
p0 82.1 ± 1.427
120
100
80
60
40
pull
Entries 81
Mean 183.1
Std Dev 124.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

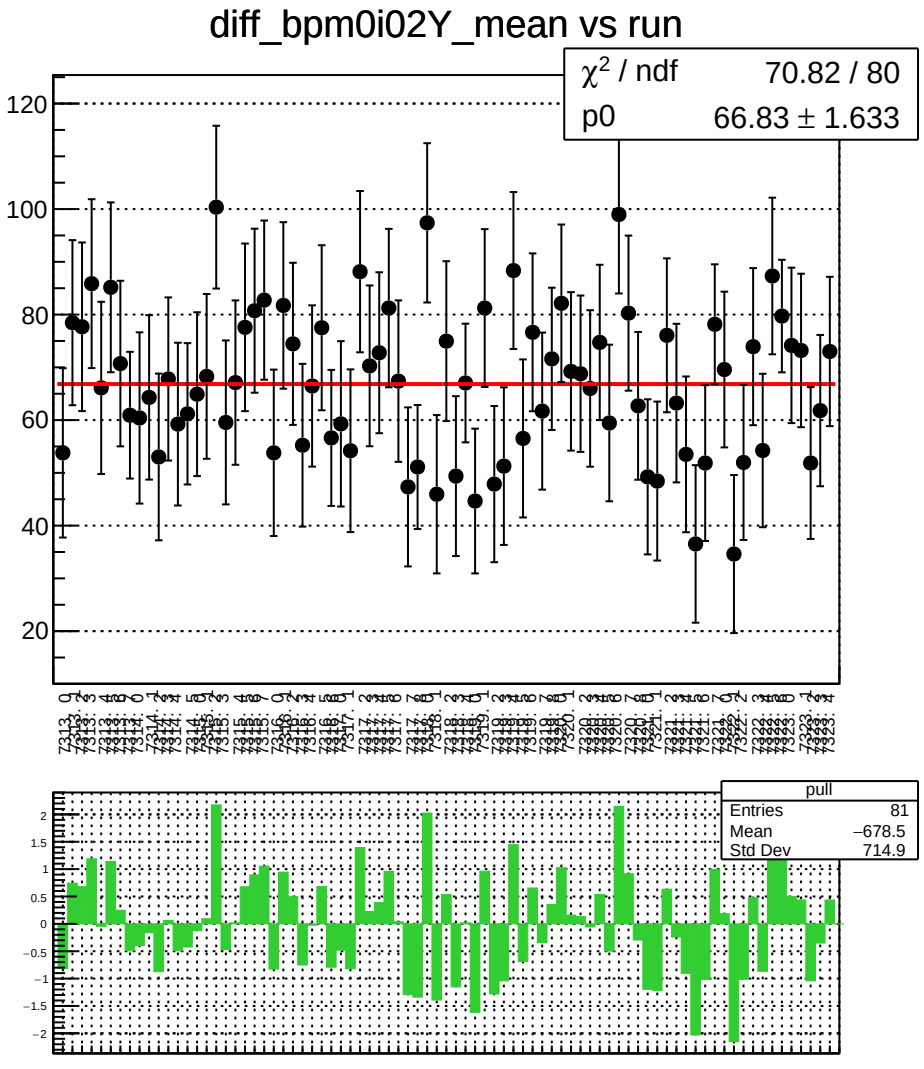

pull1D
Entries 81
Mean −0.02064
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

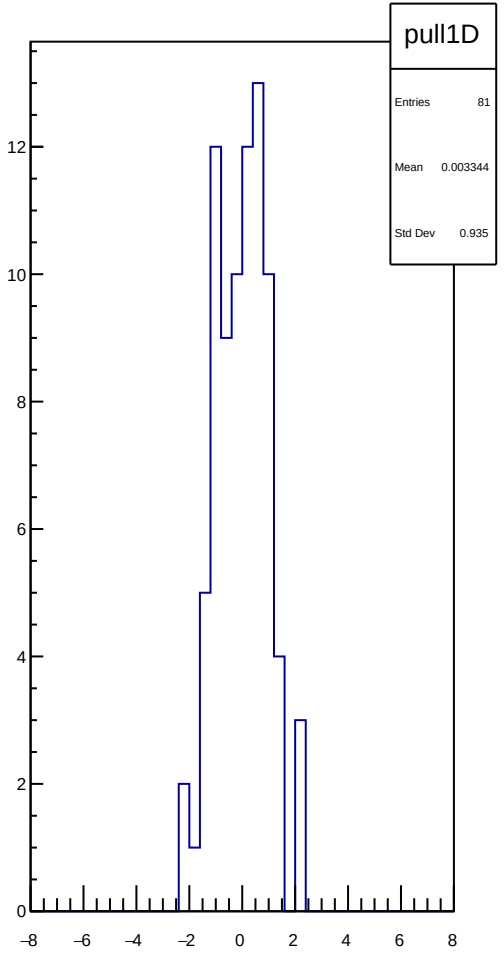

diff_bpm2i02Y_rms vs run
χ² / ndf 232.2 / 80
p0 1256 ± 1.009
1320
1300
1280
1260
1240
1220
1200

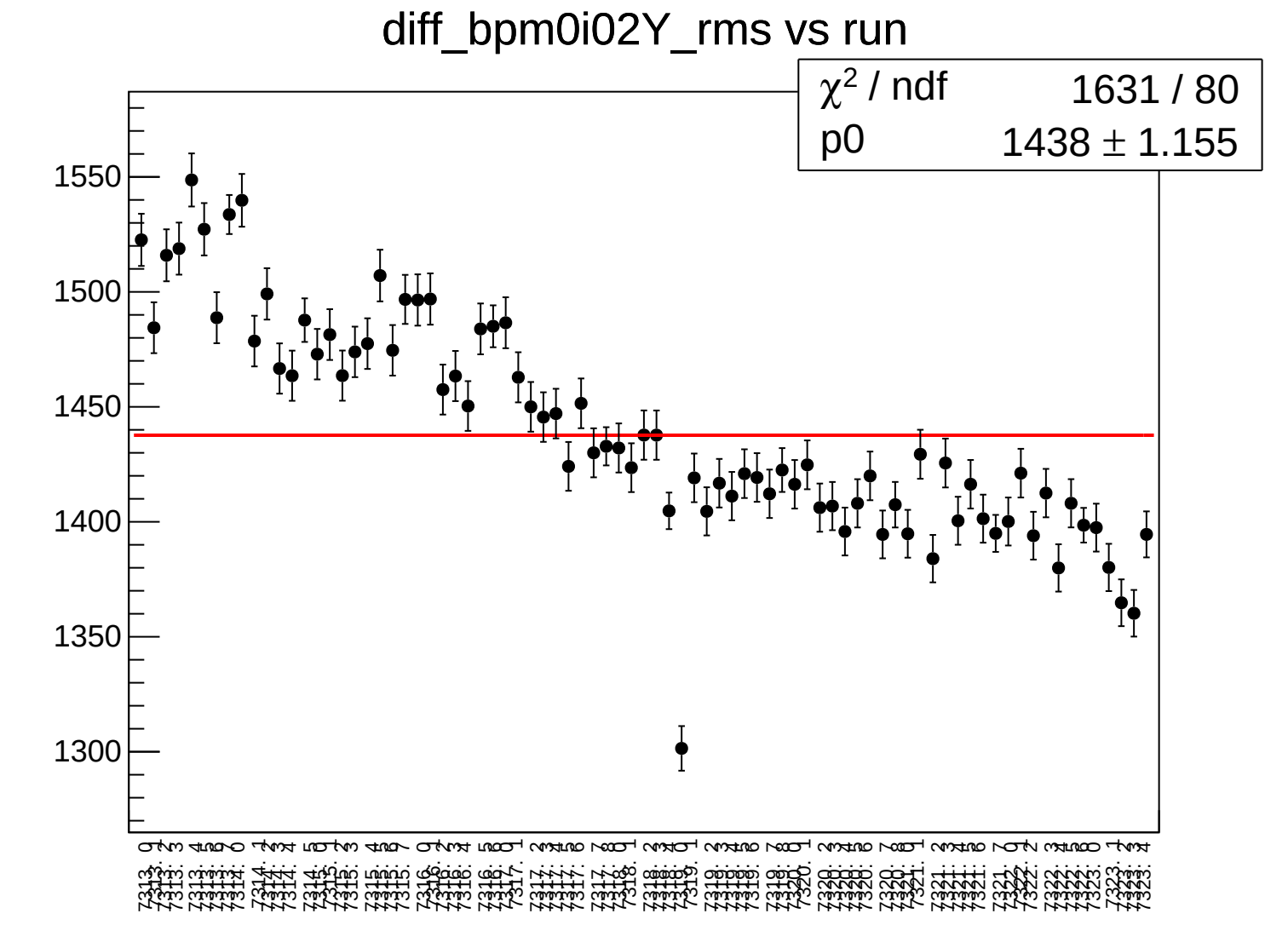

diff_bpm0i02X_mean vs run
χ² / ndf 71.69 / 80
p0 −18.99 ± 2.264
pull
Entries 81
Mean −690.9
Std Dev 728.2

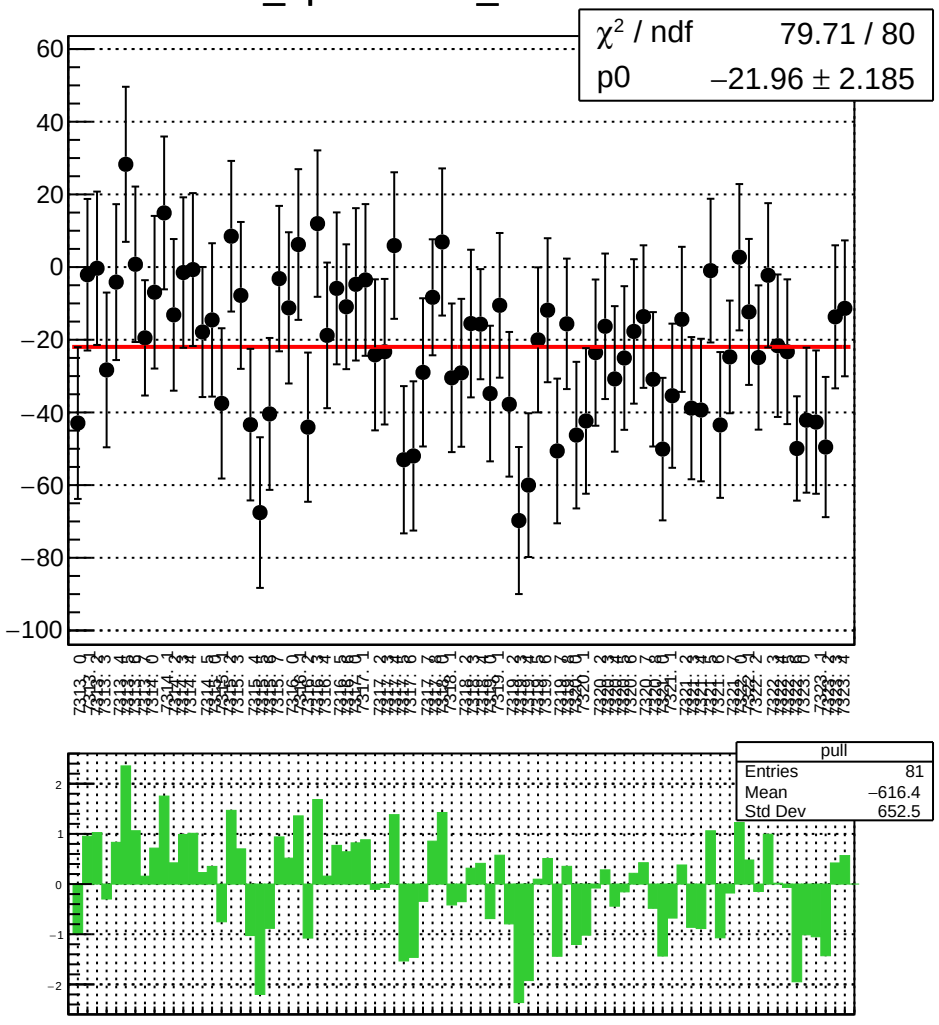

pull1D
Entries 81
Mean 0.007919
Std Dev 0.9407

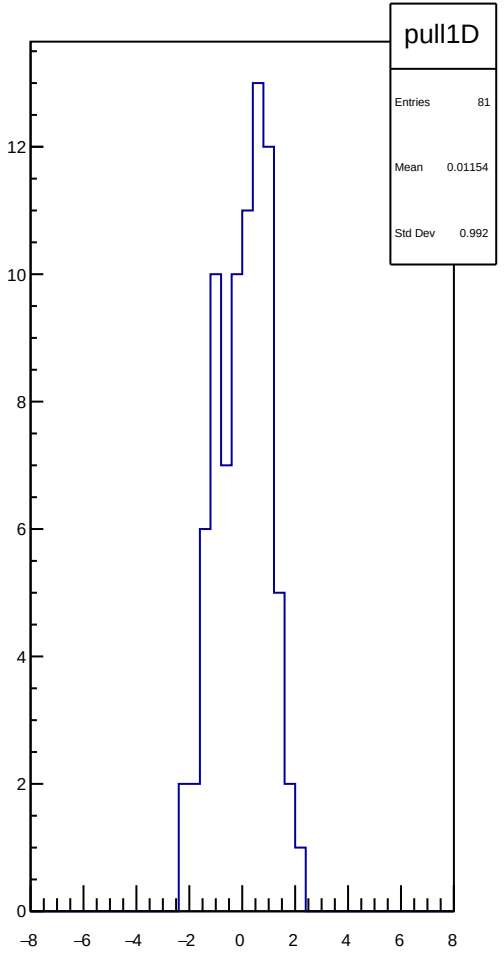

diff_bpm0i02X_rms vs run
χ² / ndf 621.6 / 80
p0 1993 ± 1.601
2100
2050
2000
1950
1900
1850
1800

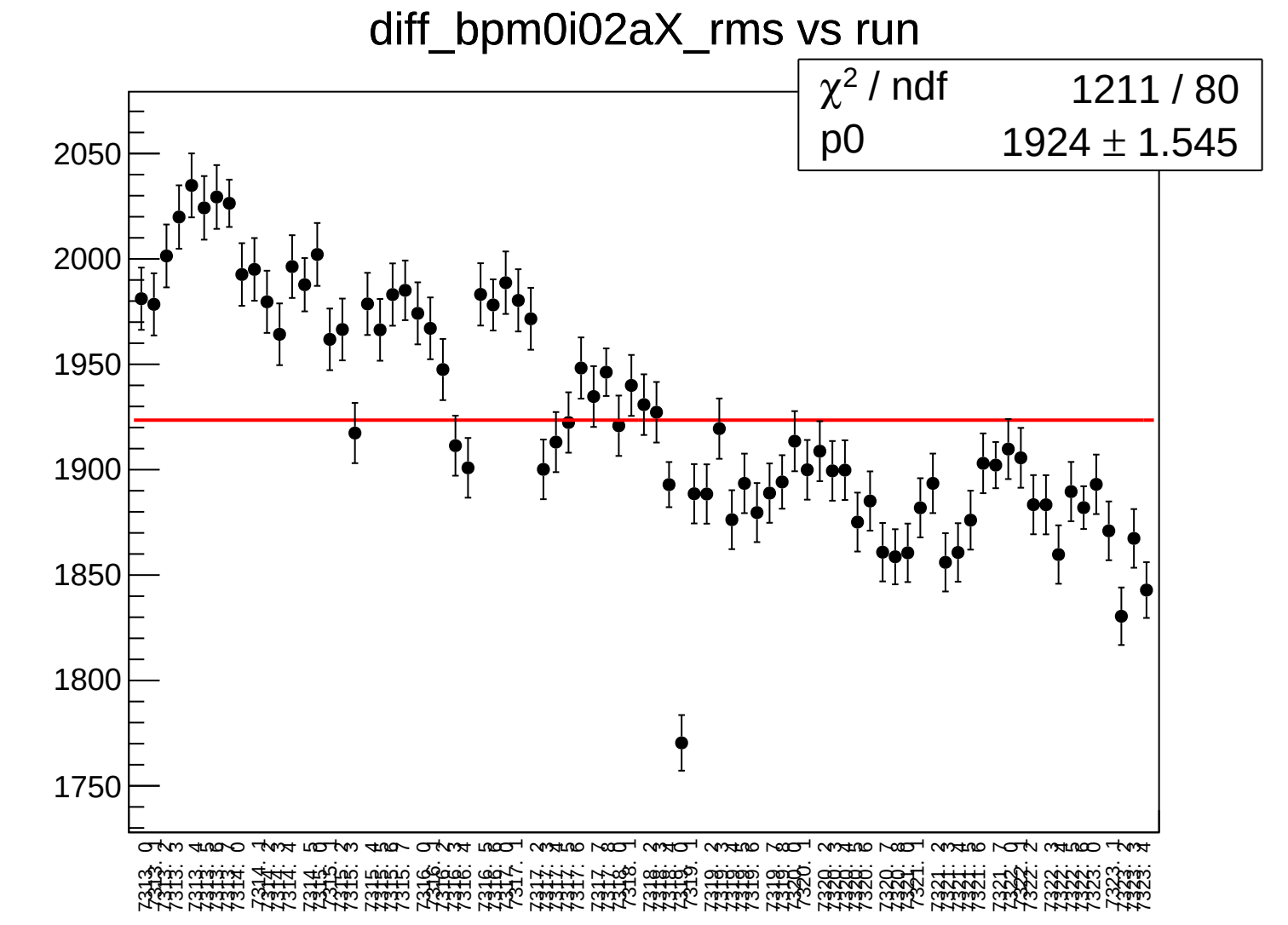

diff_bpm0i02Y_mean vs run
χ^2 / ndf 70.82 / 80
p0 66.83 ± 1.633
pull
Entries 81
Mean −678.5
Std Dev 714.9

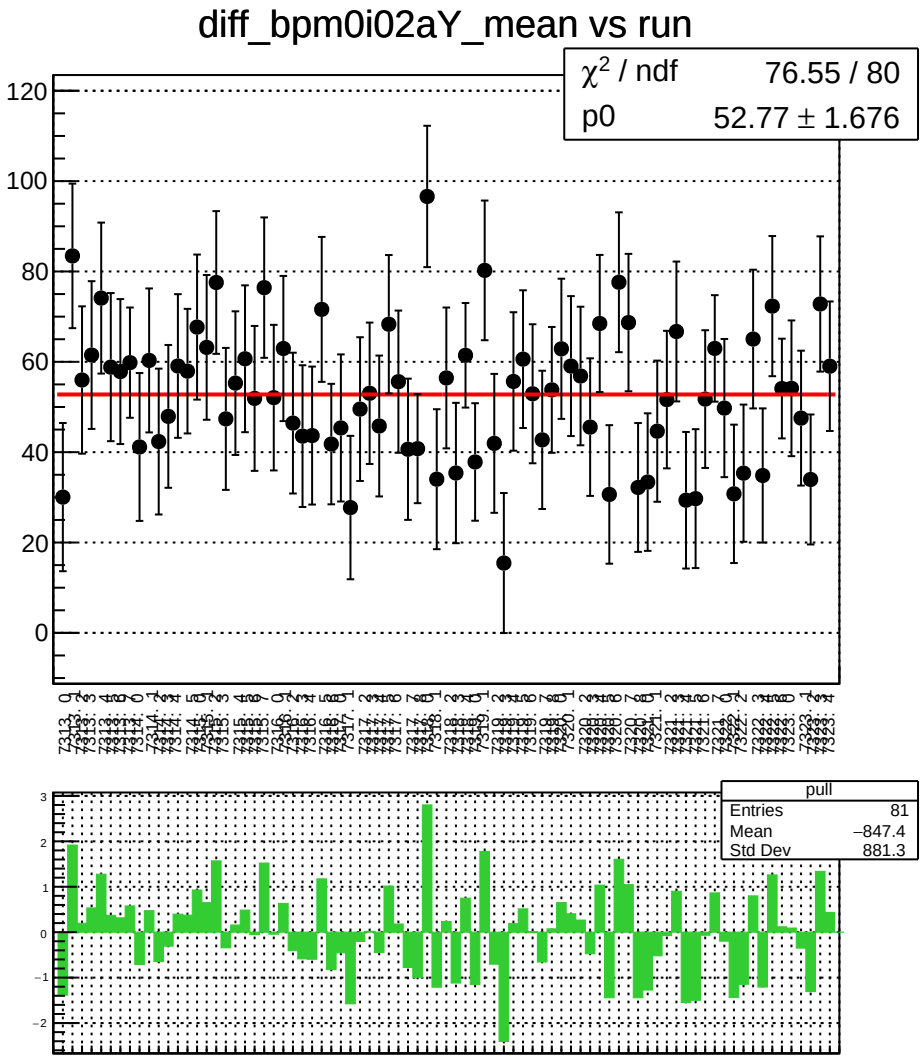

pull1D
Entries 81
Mean 0.003344
Std Dev 0.935

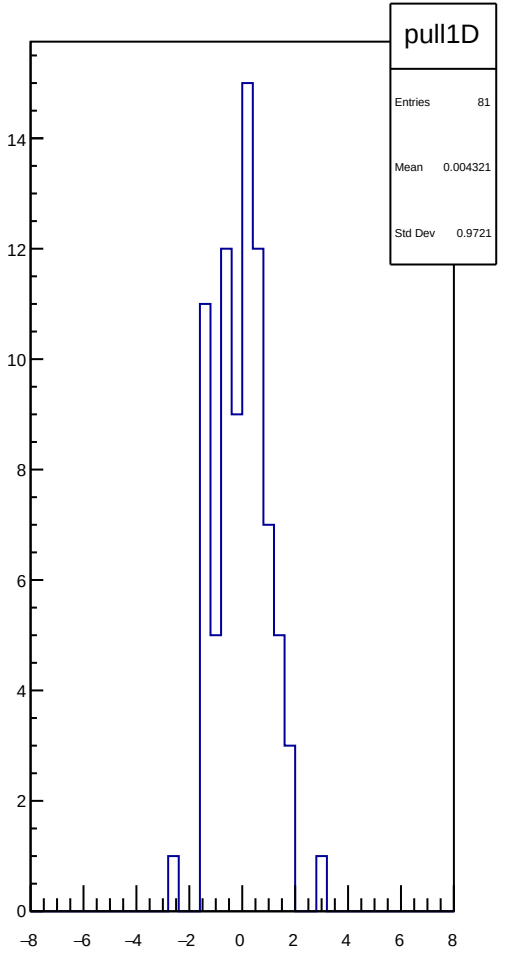

diff_bpm0i02Y_rms vs run
χ^2 / ndf 1631 / 80
p0 1438 ± 1.155
1550
1500
1450
1400
1350
1300

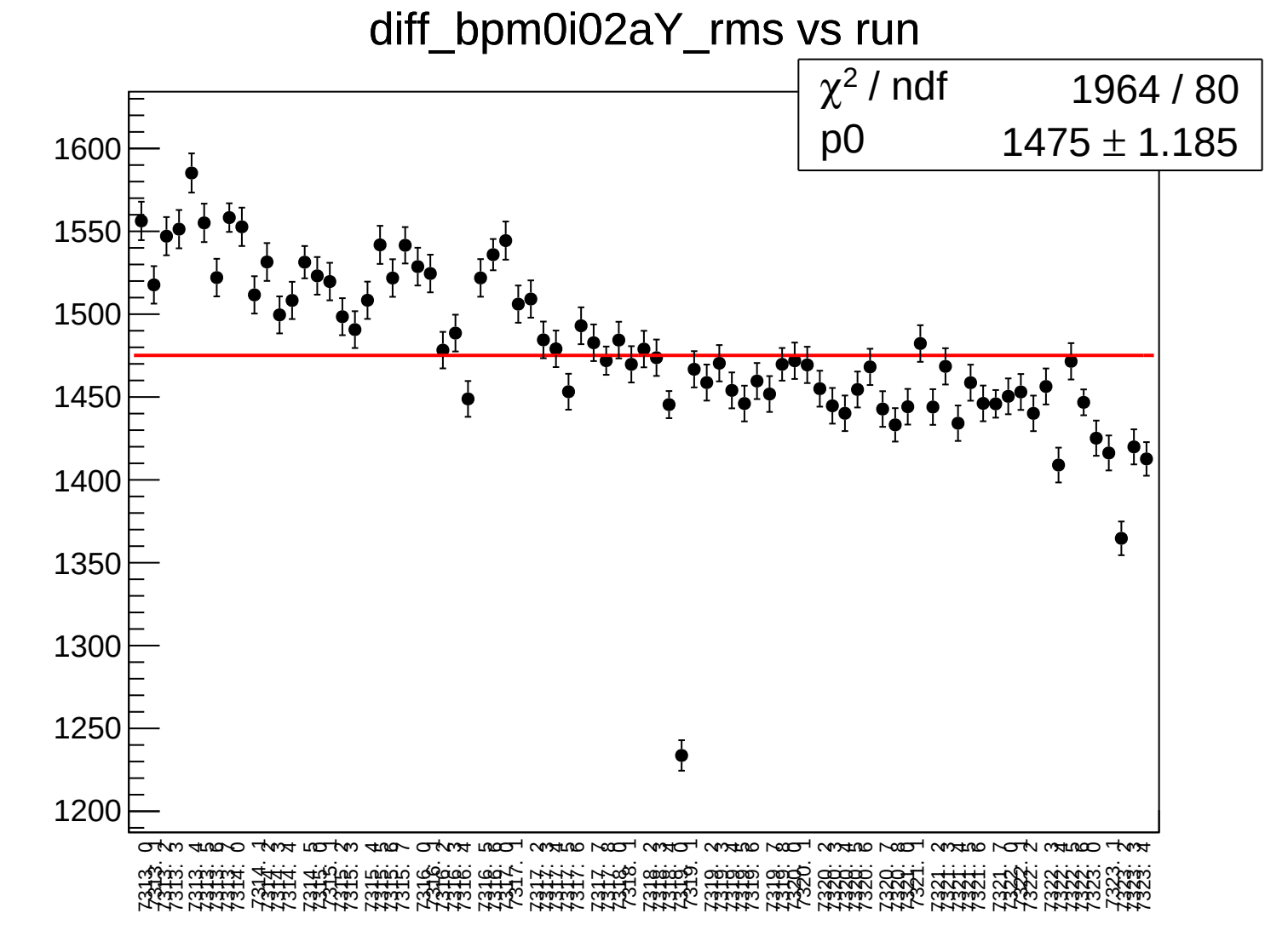

diff_bpm0i02aX_mean vs run
χ² / ndf 79.71 / 80
p0 −21.96 ± 2.185
pull
Entries 81
Mean −616.4
Std Dev 652.5

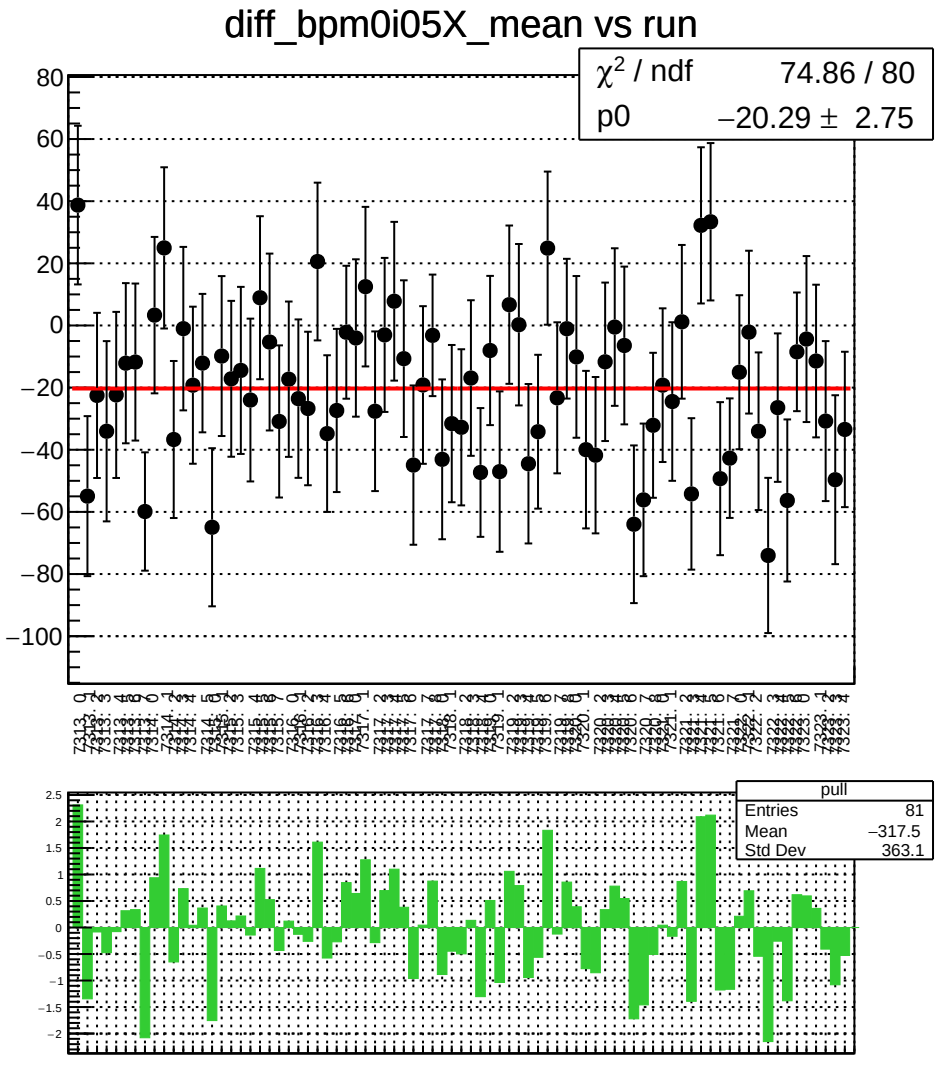

pull1D
Entries 81
Mean 0.01154
Std Dev 0.992

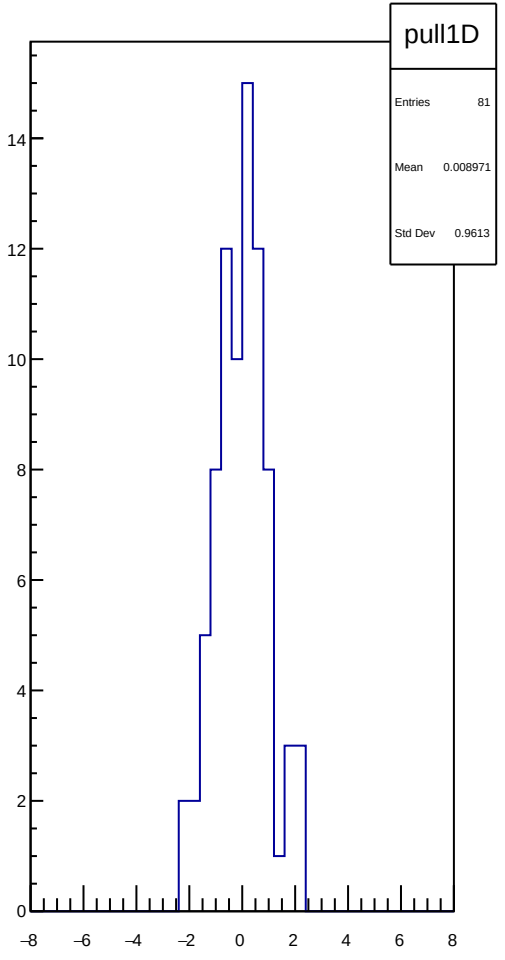

diff_bpm0i02aX_rms vs run
χ² / ndf 1211 / 80
p0 1924 ± 1.545
2050
2000
1950
1900
1850
1800
1750

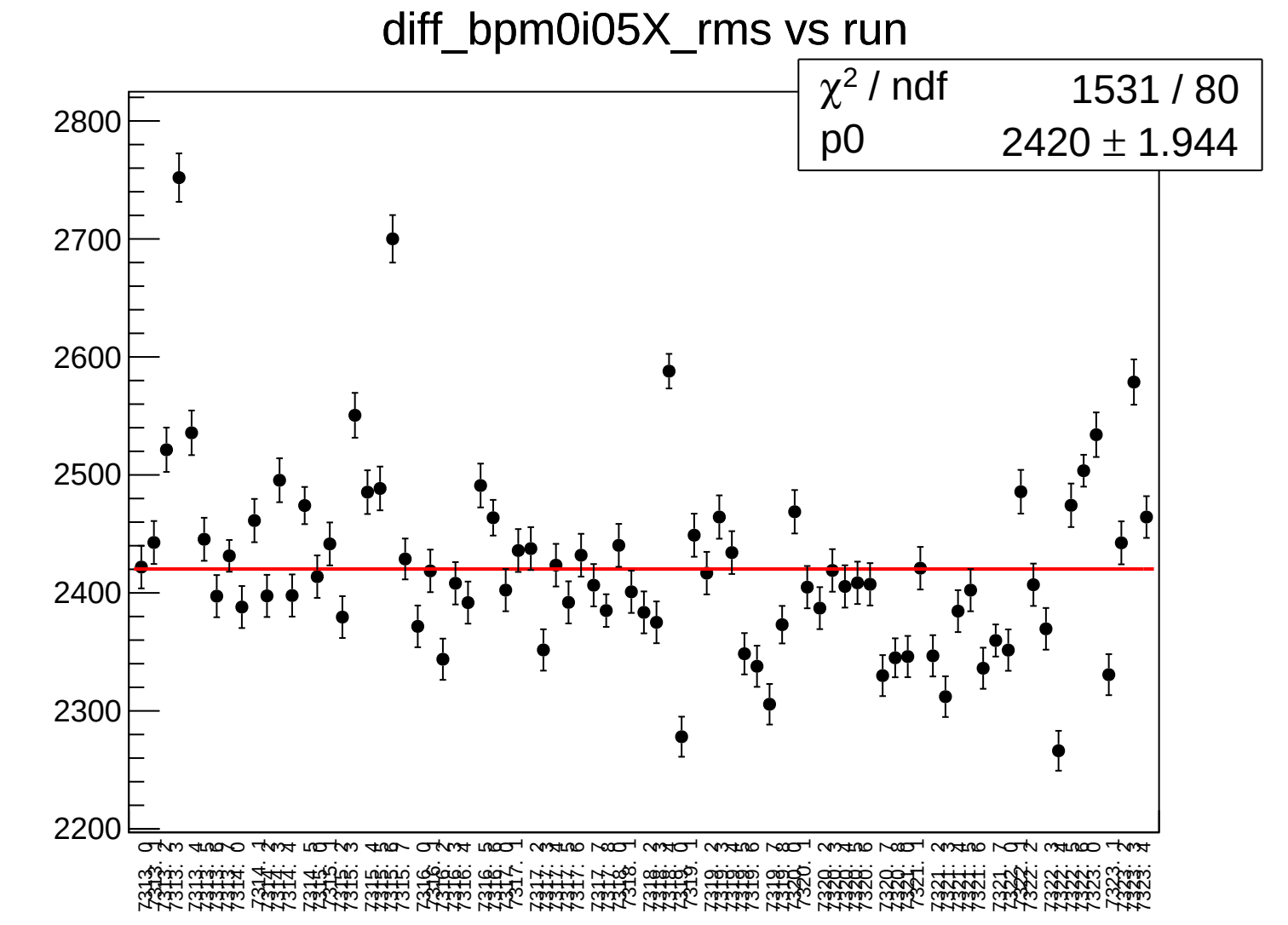

diff_bpm0i02aY_mean vs run
χ^2 / ndf 76.55 / 80
p0 52.77 ± 1.676
pull
Entries 81
Mean −847.4
Std Dev 881.3

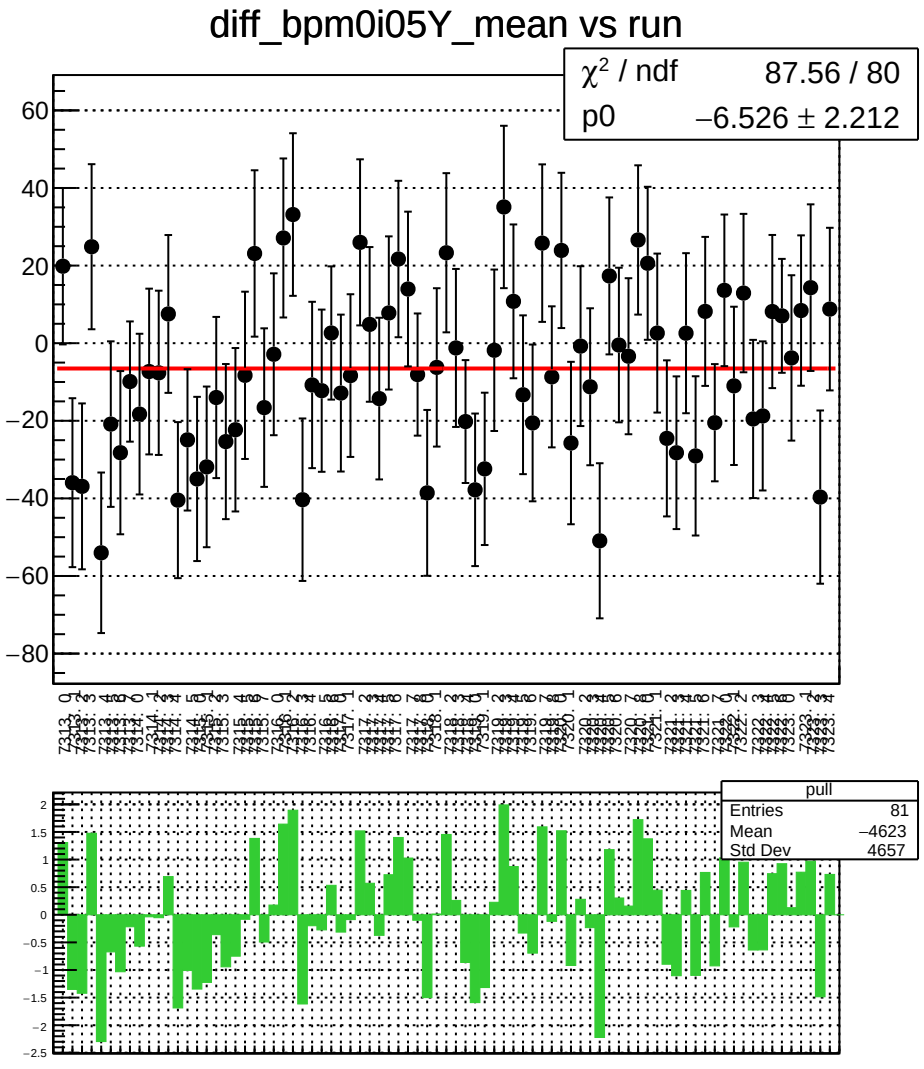

pull1D
Entries 81
Mean 0.004321
Std Dev 0.9721

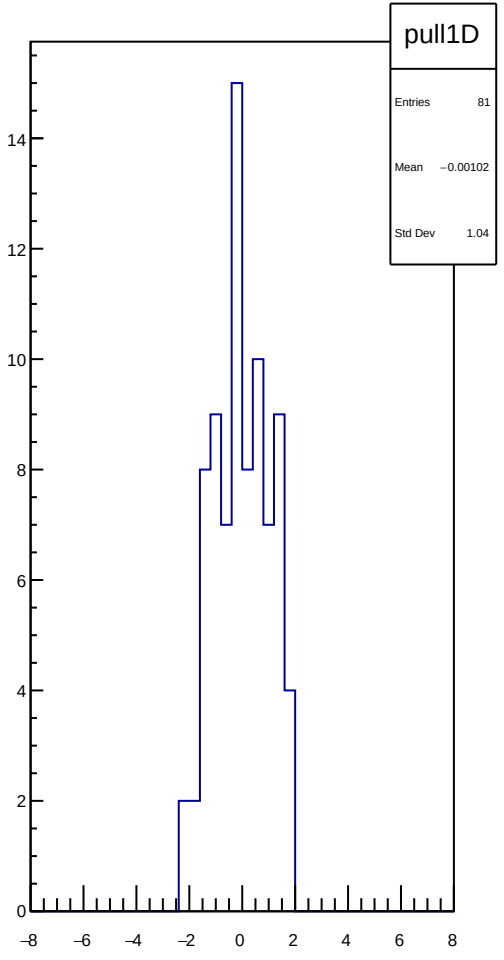

diff_bpm0i02aY_rms vs run
χ² / ndf 1964 / 80
p0 1475 ± 1.185
1600
1550
1500
1450
1400
1350
1300
1250
1200

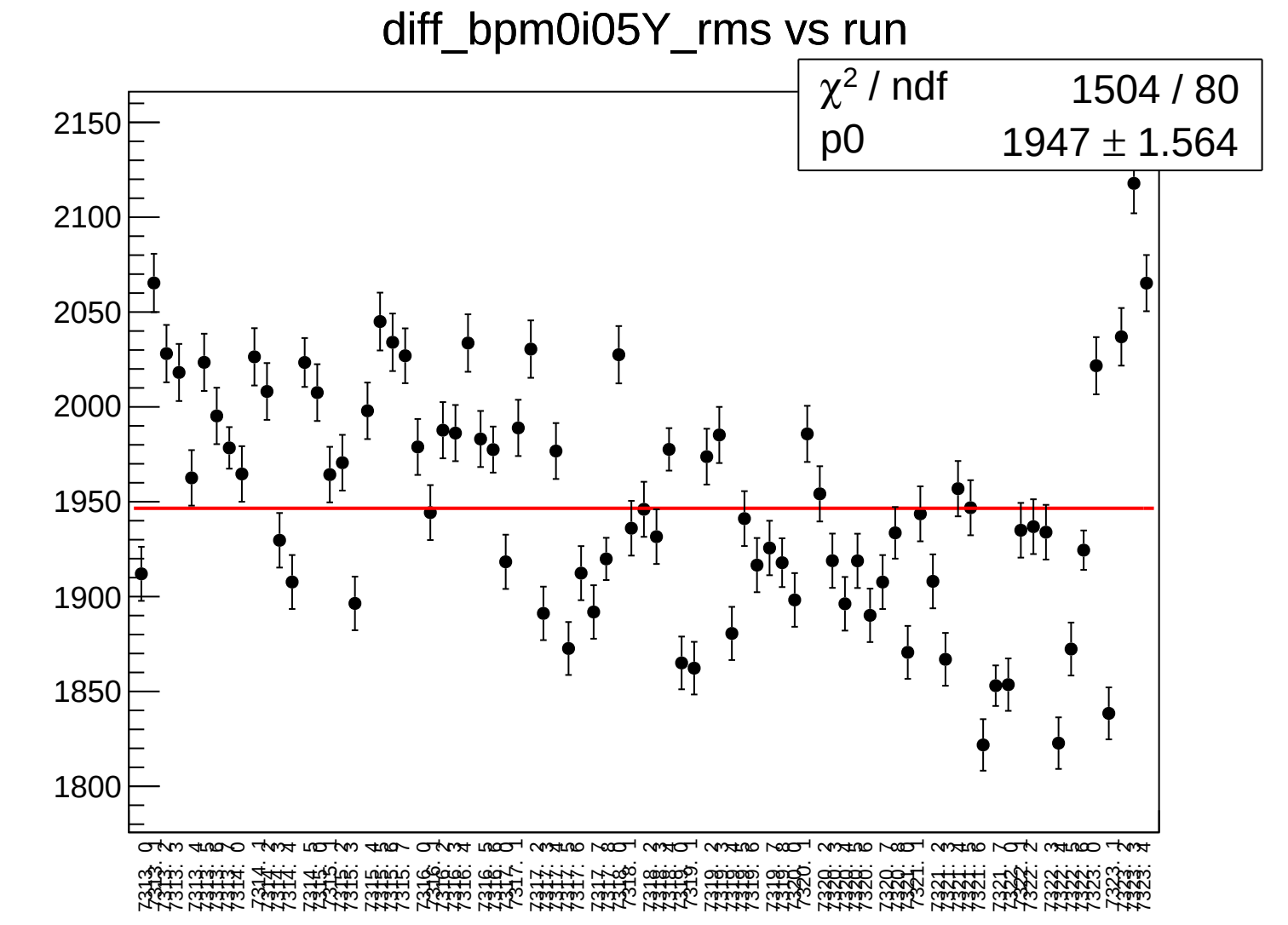

diff_bpm0i05X_mean vs run
χ^2 / ndf 74.86 / 80
p0 −20.29 ± 2.75
pull
Entries 81
Mean −317.5
Std Dev 363.1

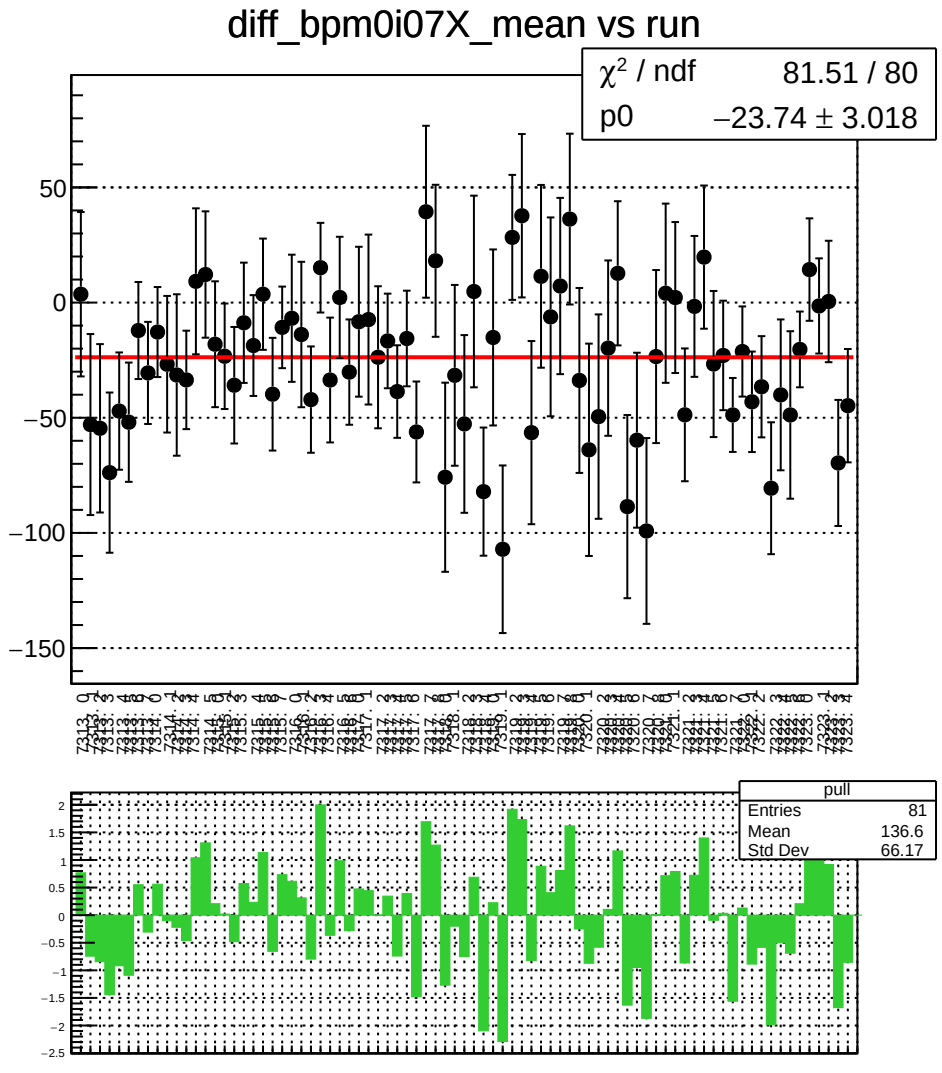

pull1D
Entries 81
Mean 0.008971
Std Dev 0.9613

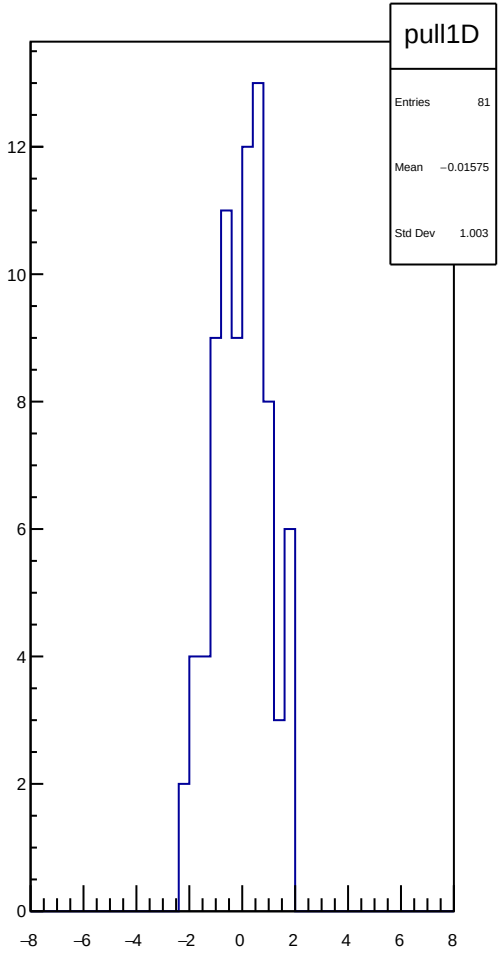

diff_bpm0i05X_rms vs run
χ² / ndf 1531 / 80
p0 2420 ± 1.944
2800
2700
2600
2500
2400
2300
2200

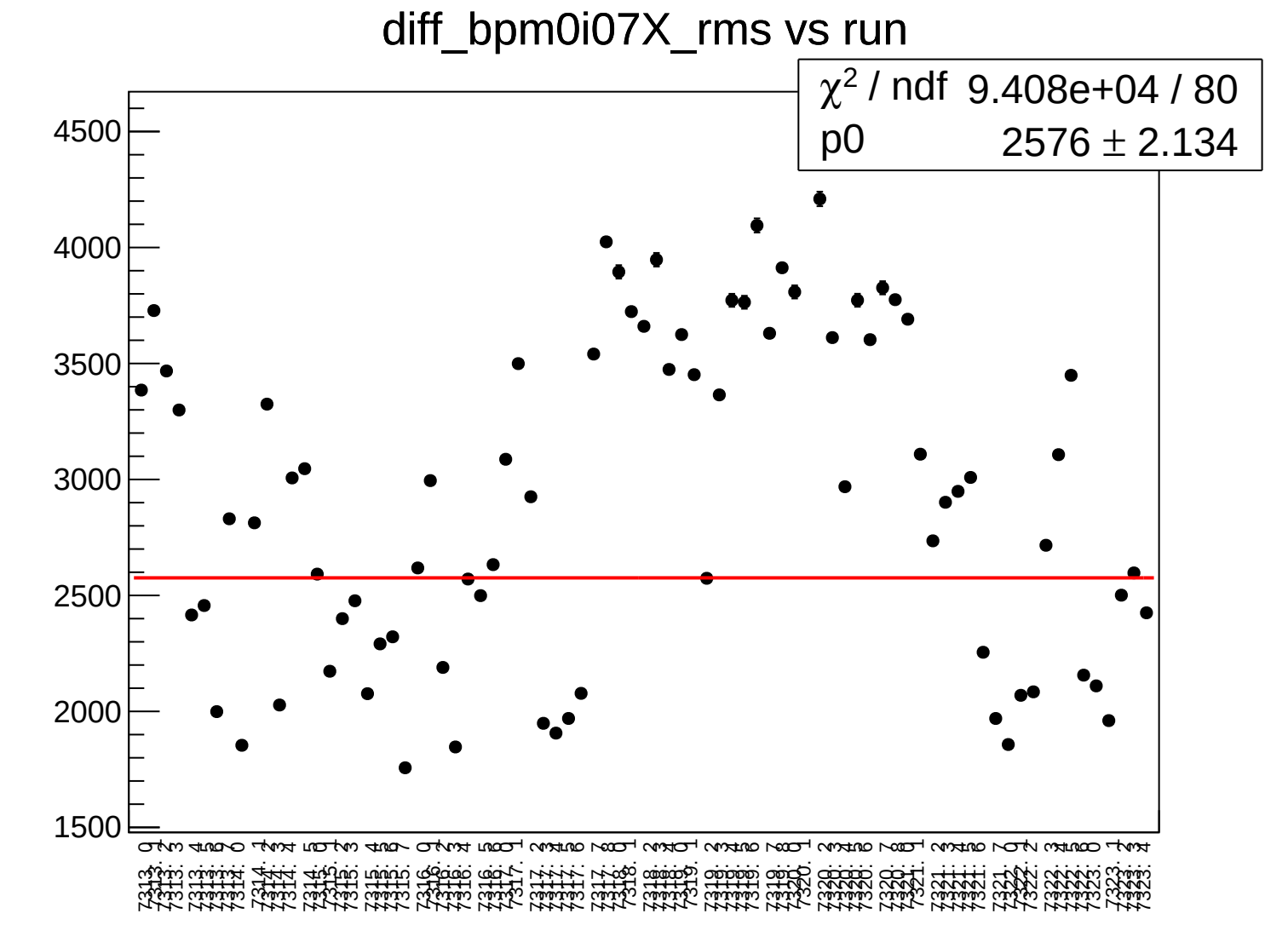

diff_bpm0i05Y_mean vs run
χ² / ndf 87.56 / 80
p0 −6.526 ± 2.212
pull
Entries 81
Mean −4623
Std Dev 4657

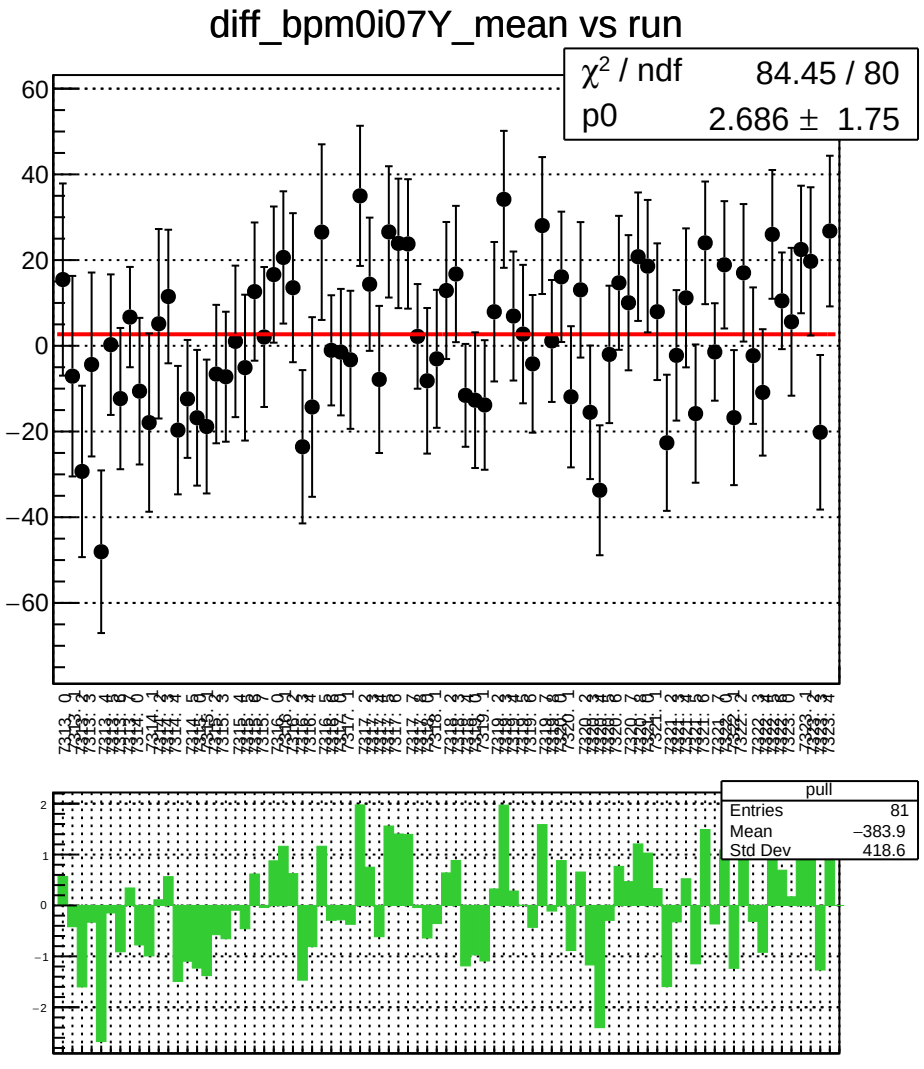

pull1D
Entries 81
Mean −0.00102
Std Dev 1.04

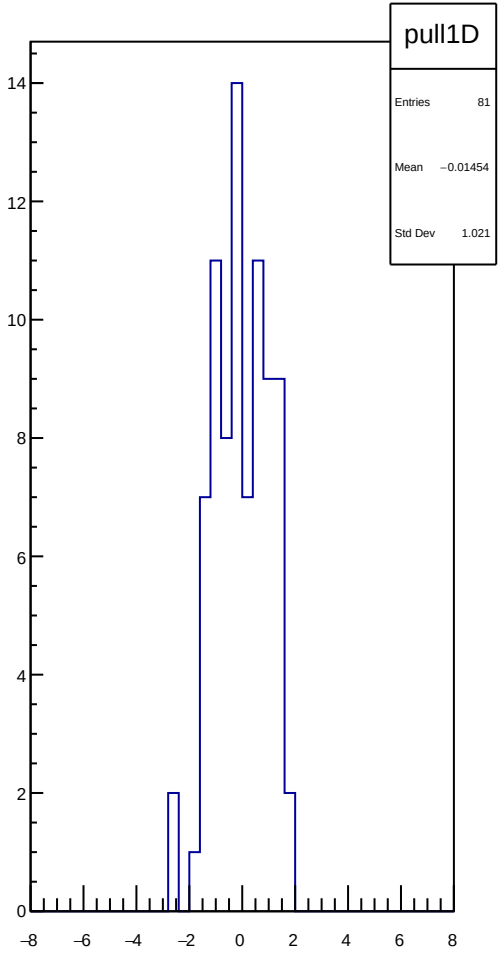

diff_bpm0i05Y_rms vs run
χ² / ndf 1504 / 80
p0 1947 ± 1.564
2150
2100
2050
2000
1950
1900
1850
1800

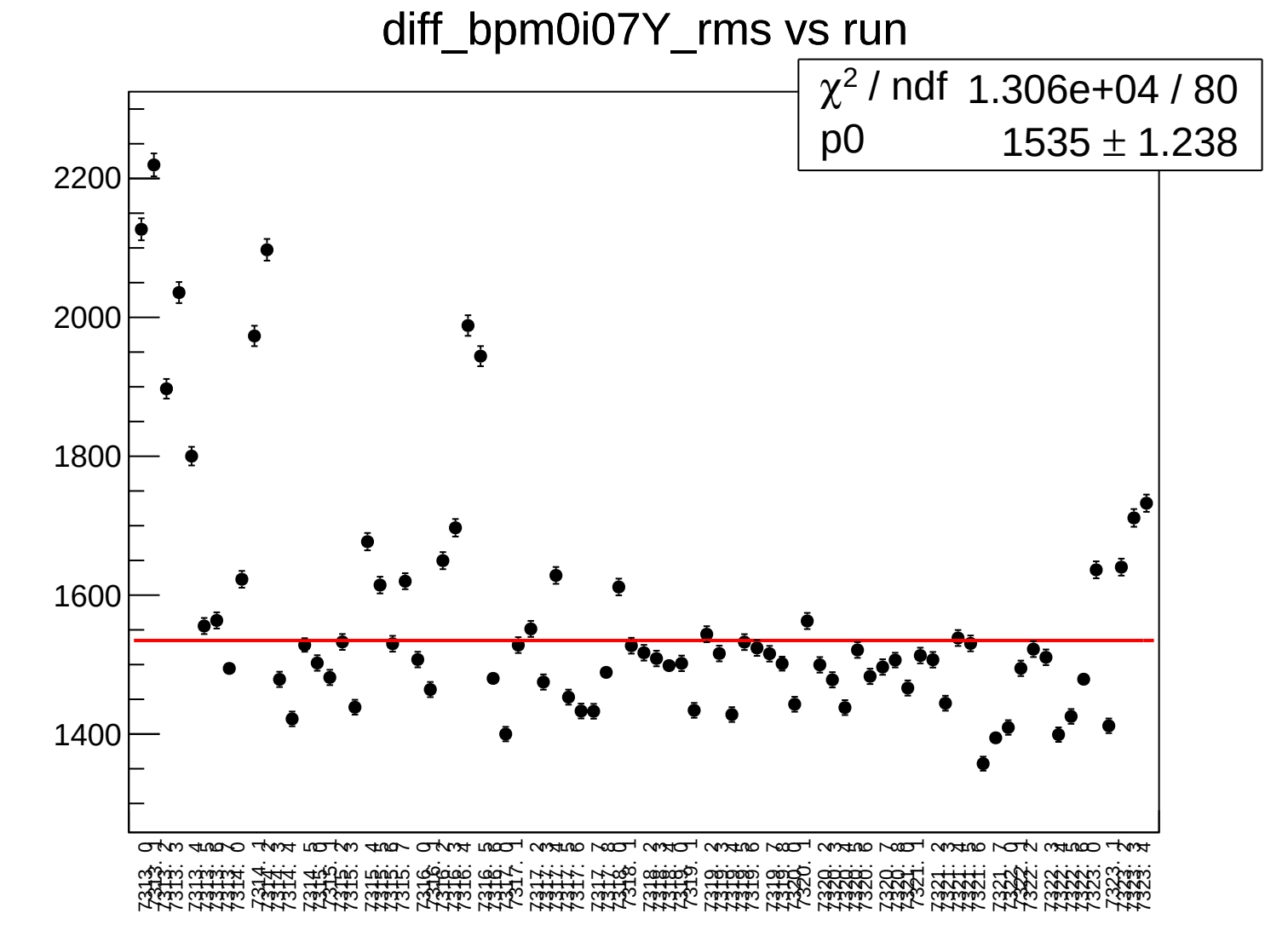

diff_bpm0i07X_mean vs run
χ² / ndf 81.51 / 80
p0 −23.74 ± 3.018
50
0
−50
−100
−150
pull
Entries 81
Mean 136.6
Std Dev 66.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

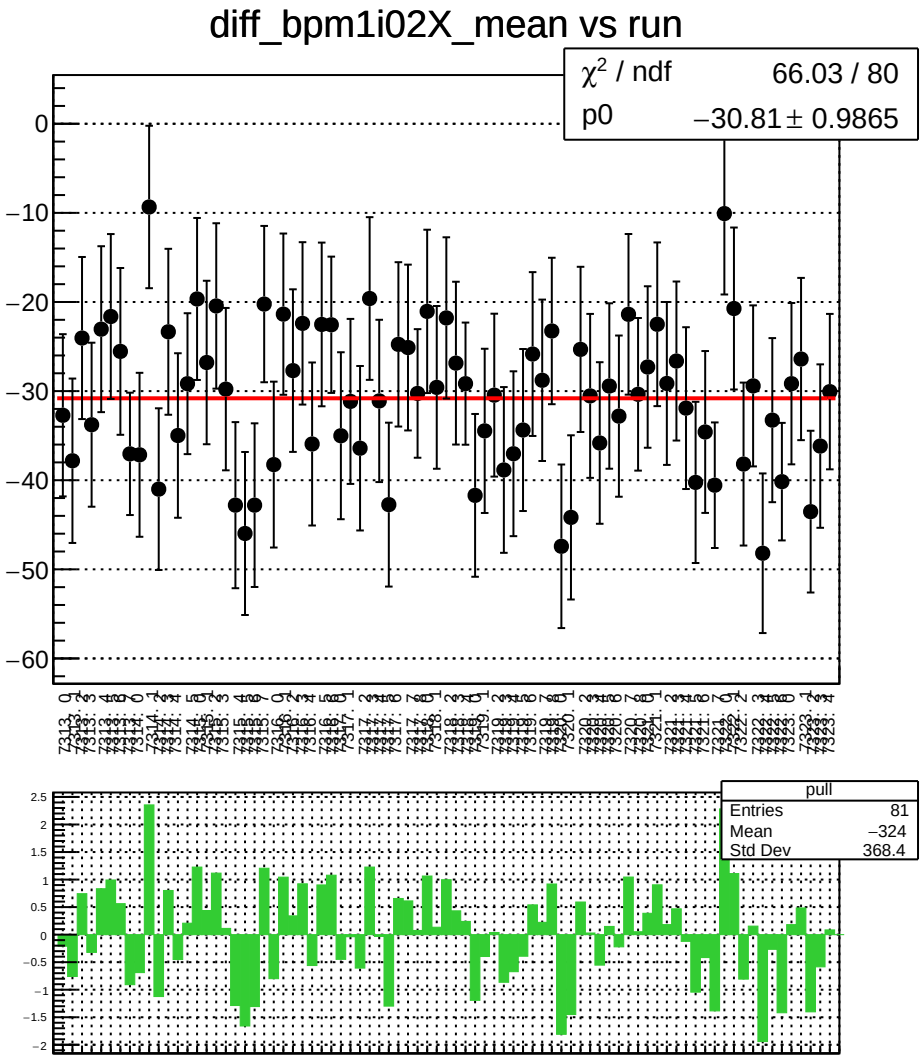

pull1D
Entries 81
Mean −0.01575
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

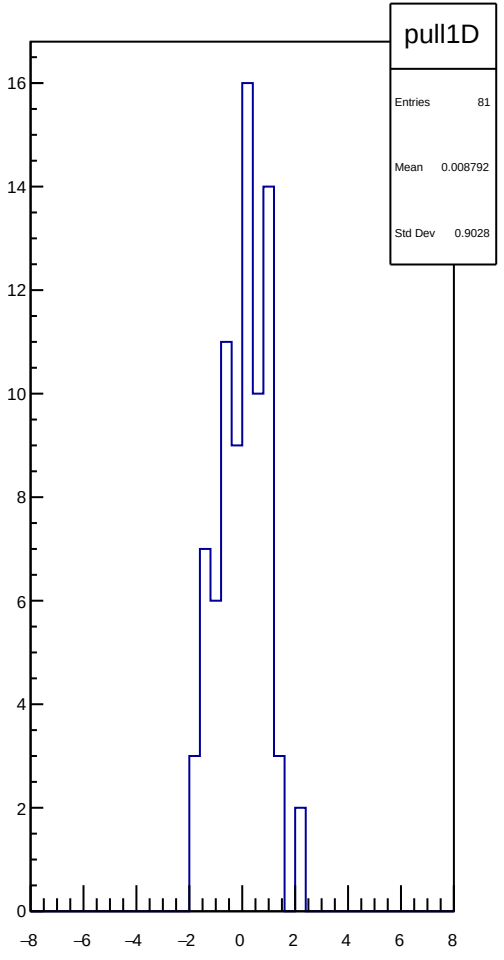

diff_bpm0i07X_rms vs run
χ² / ndf 9.408e+04 / 80
p0 2576 ± 2.134
4500
4000
3500
3000
2500
2000
1500

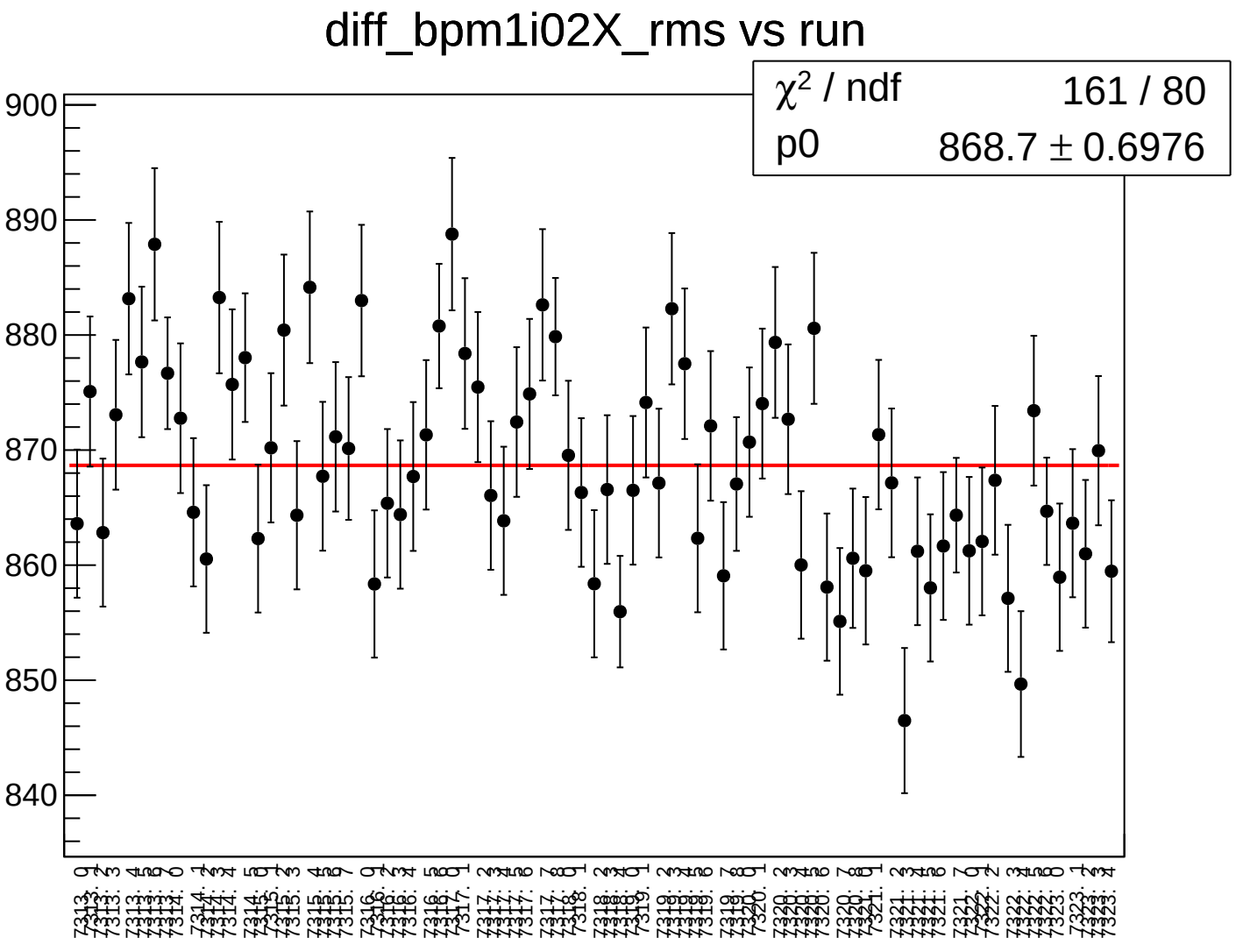

diff_bpm0i07Y_mean vs run
χ² / ndf 84.45 / 80
p0 2.686 ± 1.75
pull
Entries 81
Mean −383.9
Std Dev 418.6

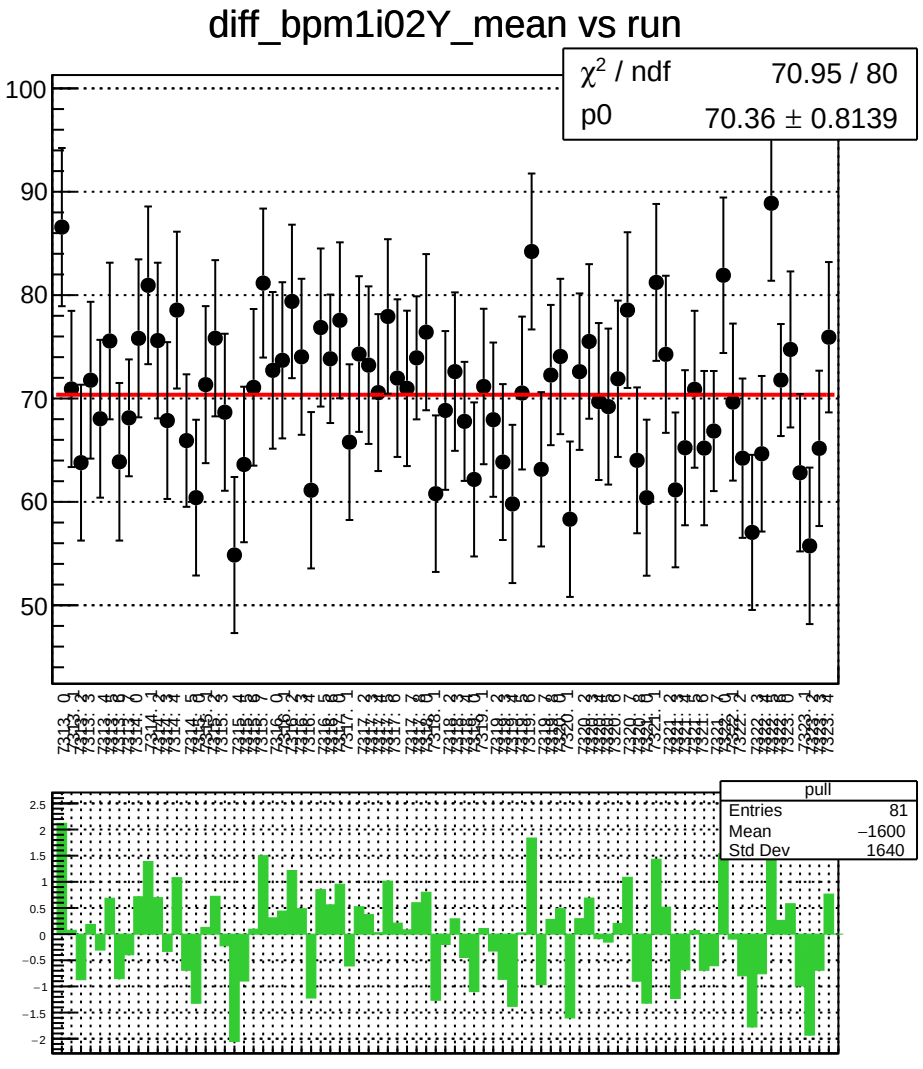

pull1D
Entries 81
Mean −0.01454
Std Dev 1.021

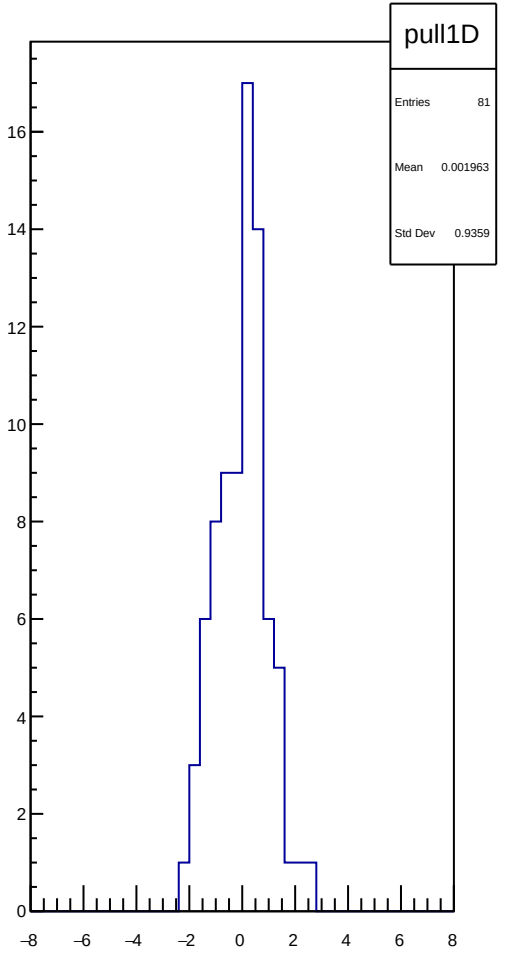

diff_bpm0i07Y_rms vs run
χ² / ndf 1.306e+04 / 80
p0 1535 ± 1.238
2200
2000
1800
1600
1400

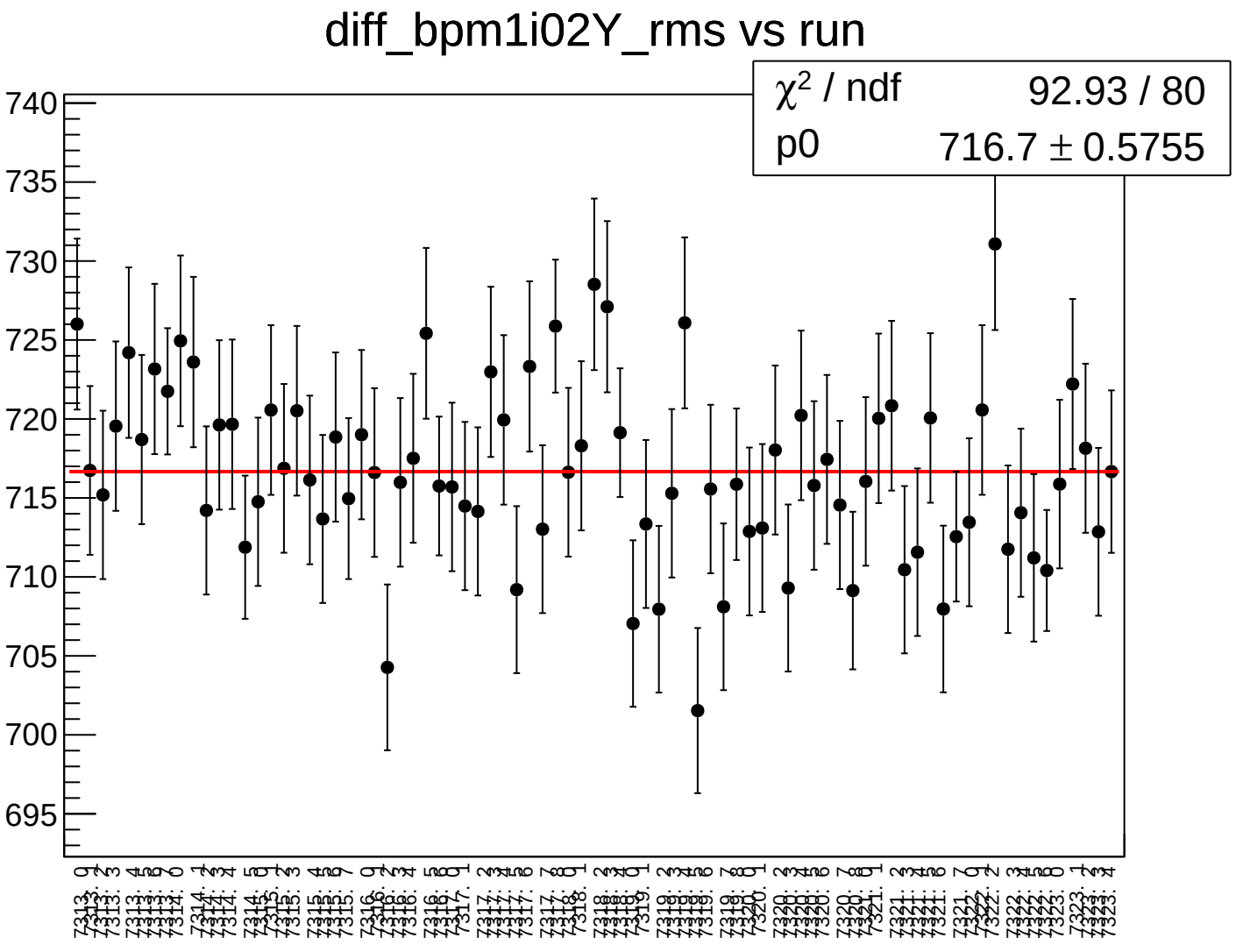

diff_bpm1i02X_mean vs run
χ² / ndf 66.03 / 80
p0 −30.81 ± 0.9865
pull
Entries 81
Mean −324
Std Dev 368.4

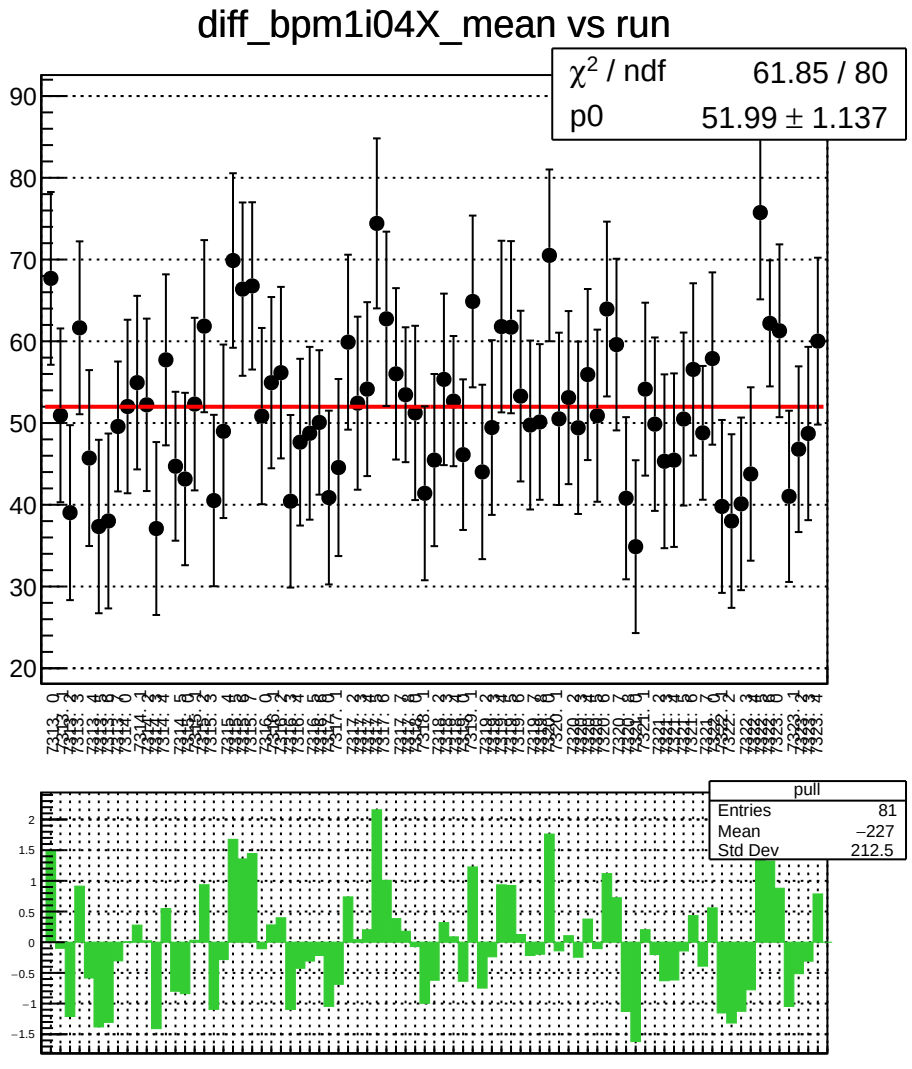

pull1D
Entries 81
Mean 0.008792
Std Dev 0.9028

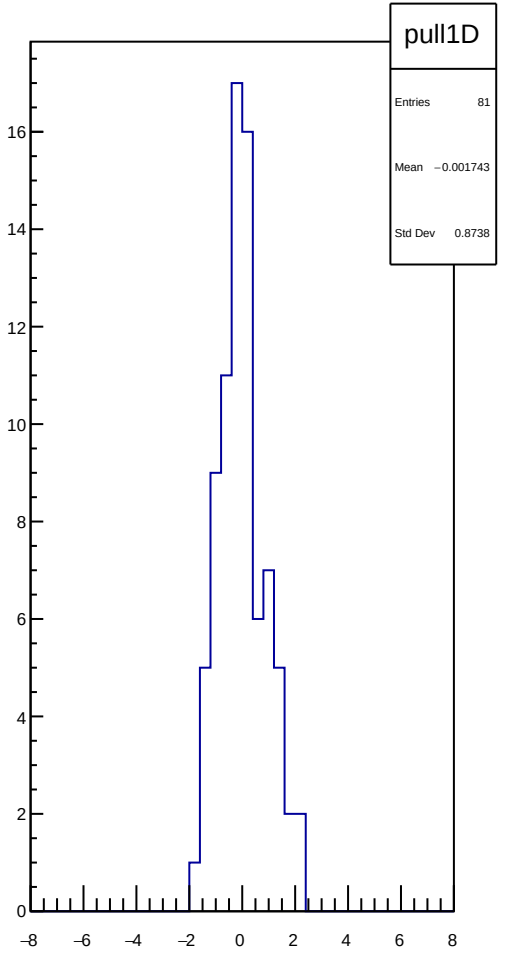

diff_bpm1i02X_rms vs run
χ² / ndf 161 / 80
p0 868.7 ± 0.6976
900
890
880
870
860
850
840

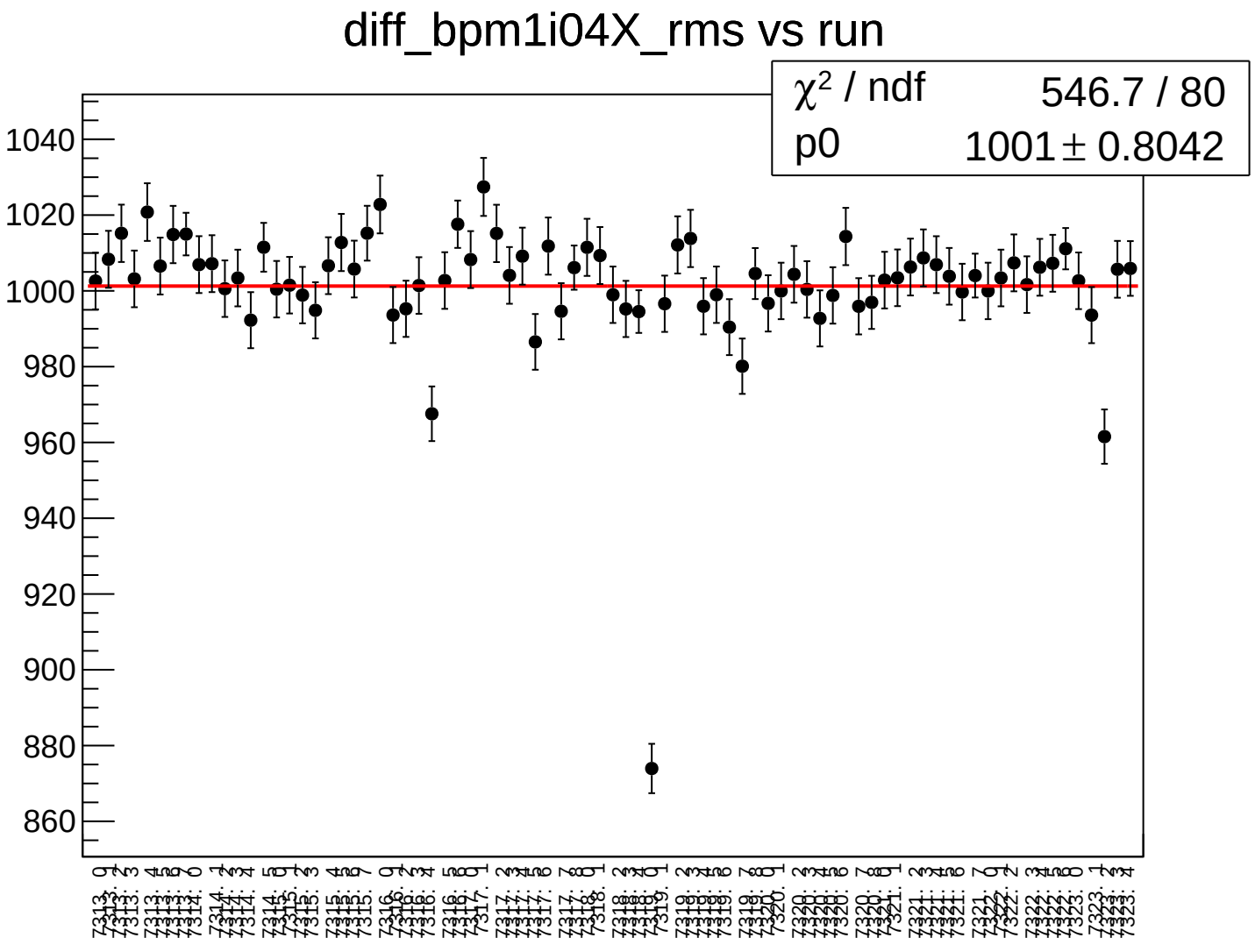

diff_bpm1i02Y_mean vs run
χ² / ndf 70.95 / 80
p0 70.36 ± 0.8139
pull
Entries 81
Mean −1600
Std Dev 1640

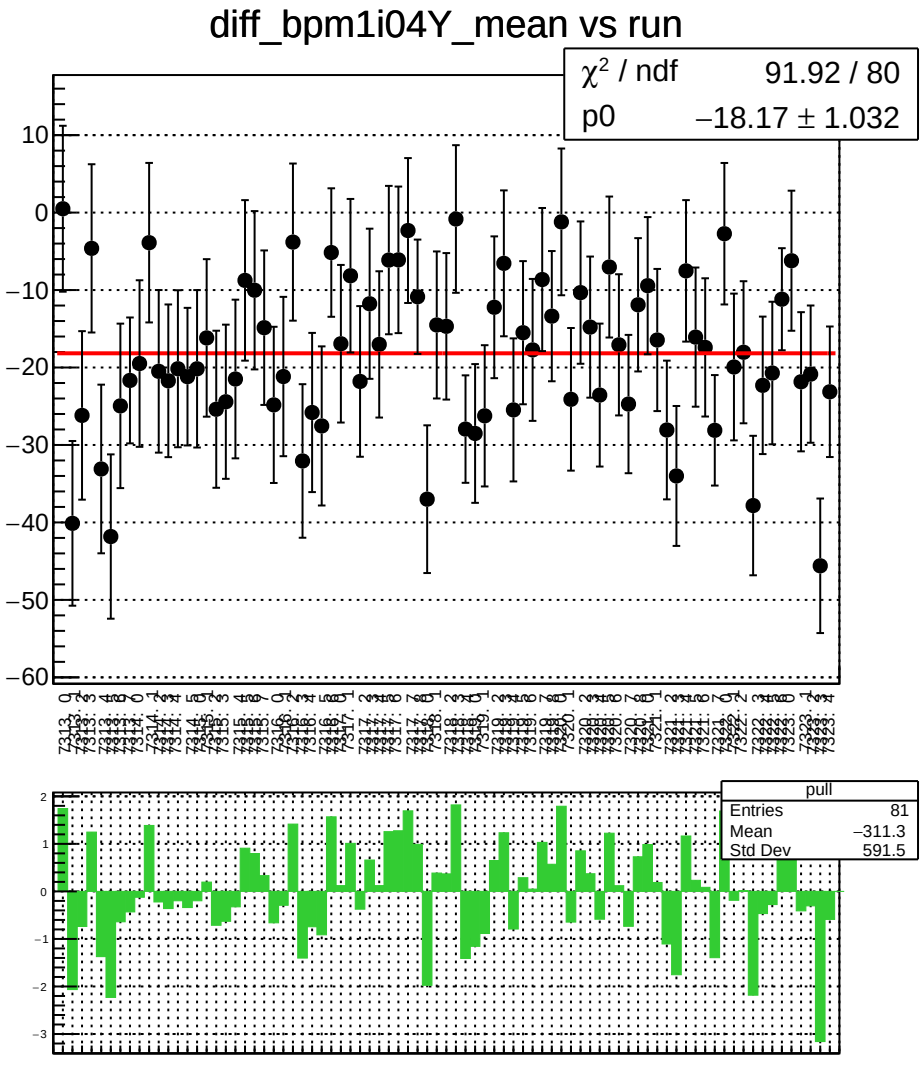

pull1D
Entries 81
Mean 0.001963
Std Dev 0.9359

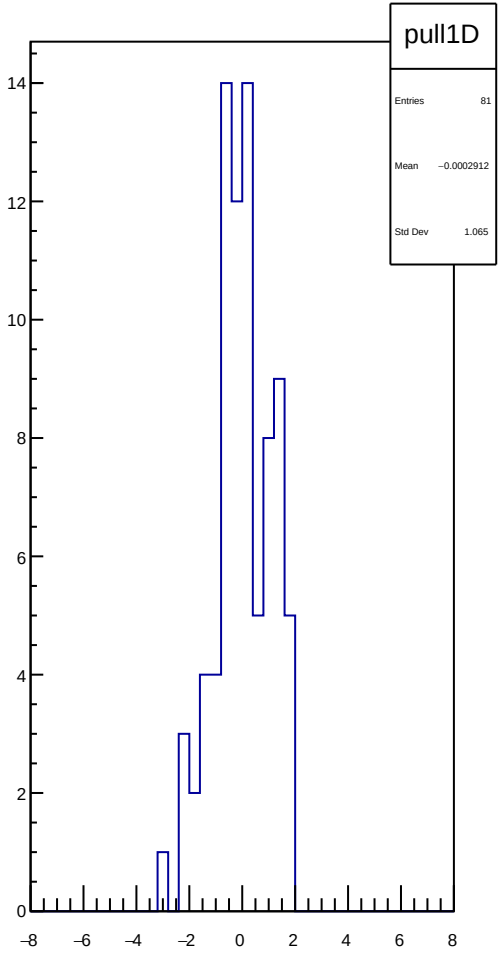

diff_bpm1i02Y_rms vs run
χ² / ndf 92.93 / 80
p0 716.7 ± 0.5755
740
735
730
725
720
715
710
705
700
695

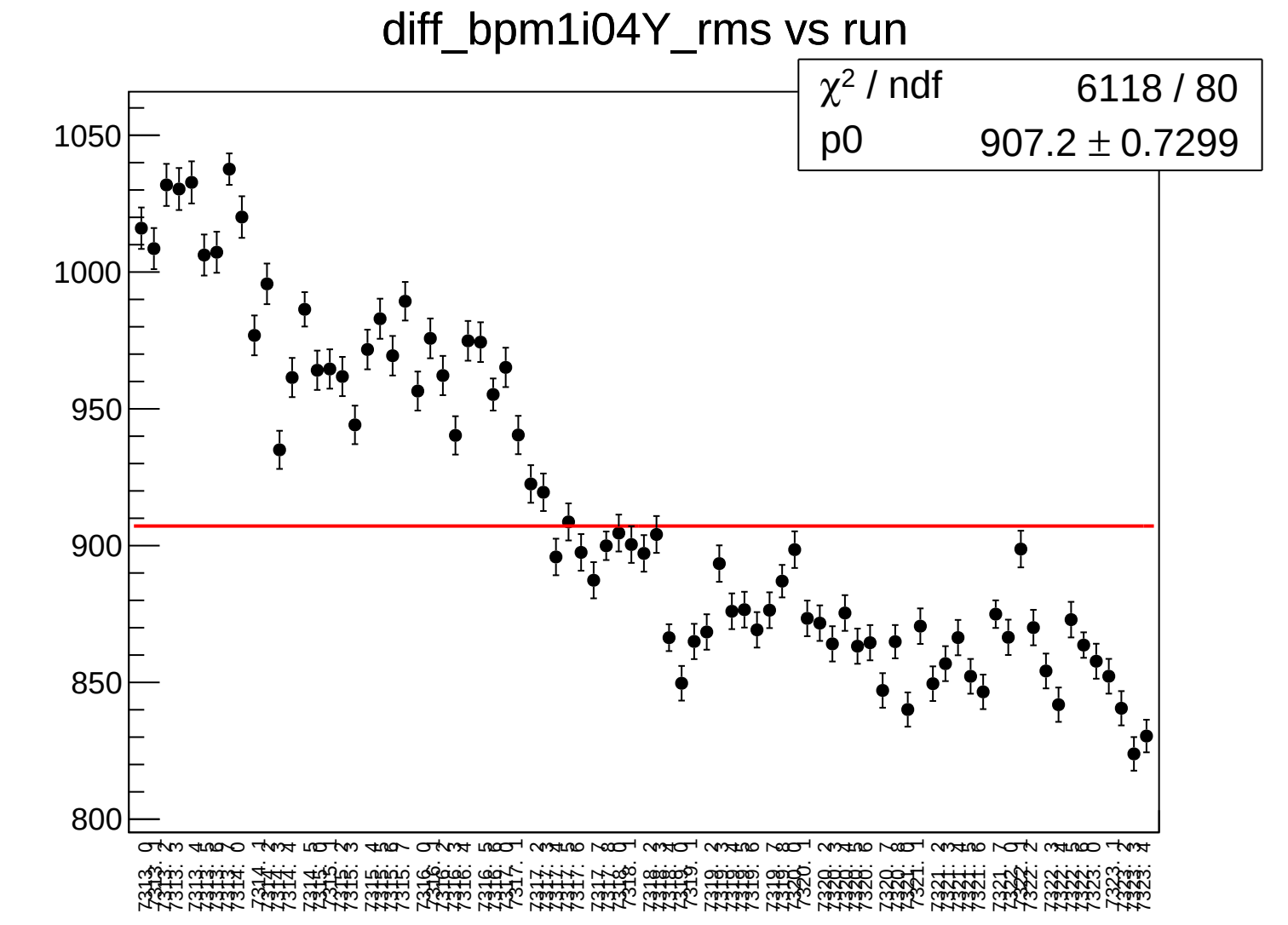

diff_bpm1i04X_mean vs run
χ^2 / ndf 61.85 / 80
p0 51.99 ± 1.137
pull
Entries 81
Mean −227
Std Dev 212.5

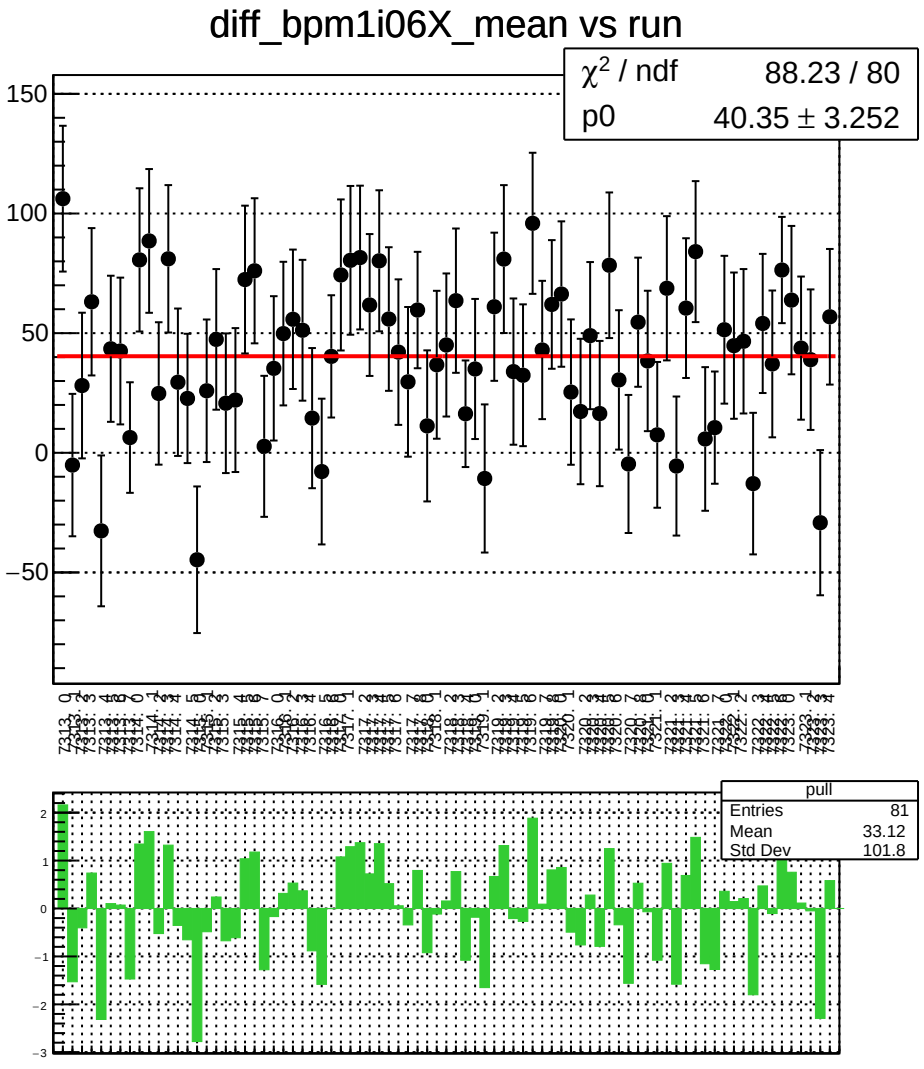

pull1D
Entries 81
Mean −0.001743
Std Dev 0.8738

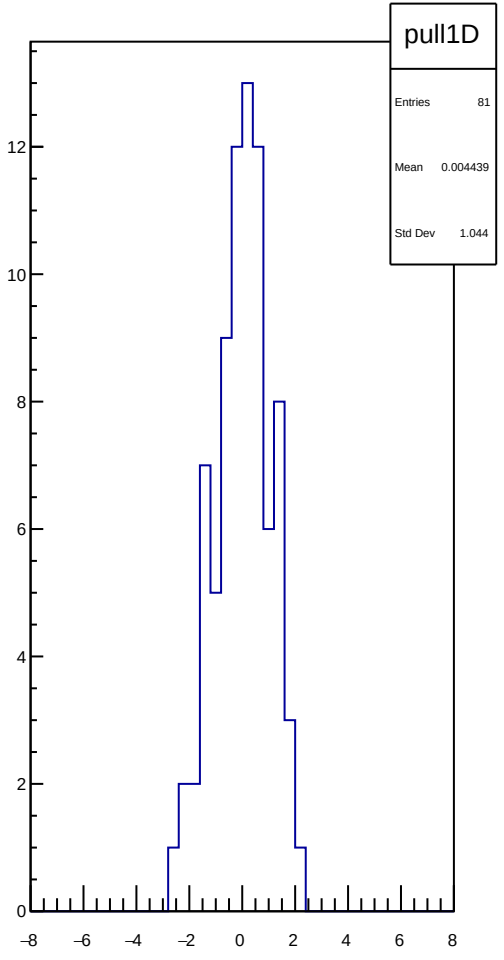

diff_bpm1i04X_rms vs run
χ² / ndf 546.7 / 80
p0 1001 ± 0.8042
1040
1020
1000
980
960
940
920
900
880
860

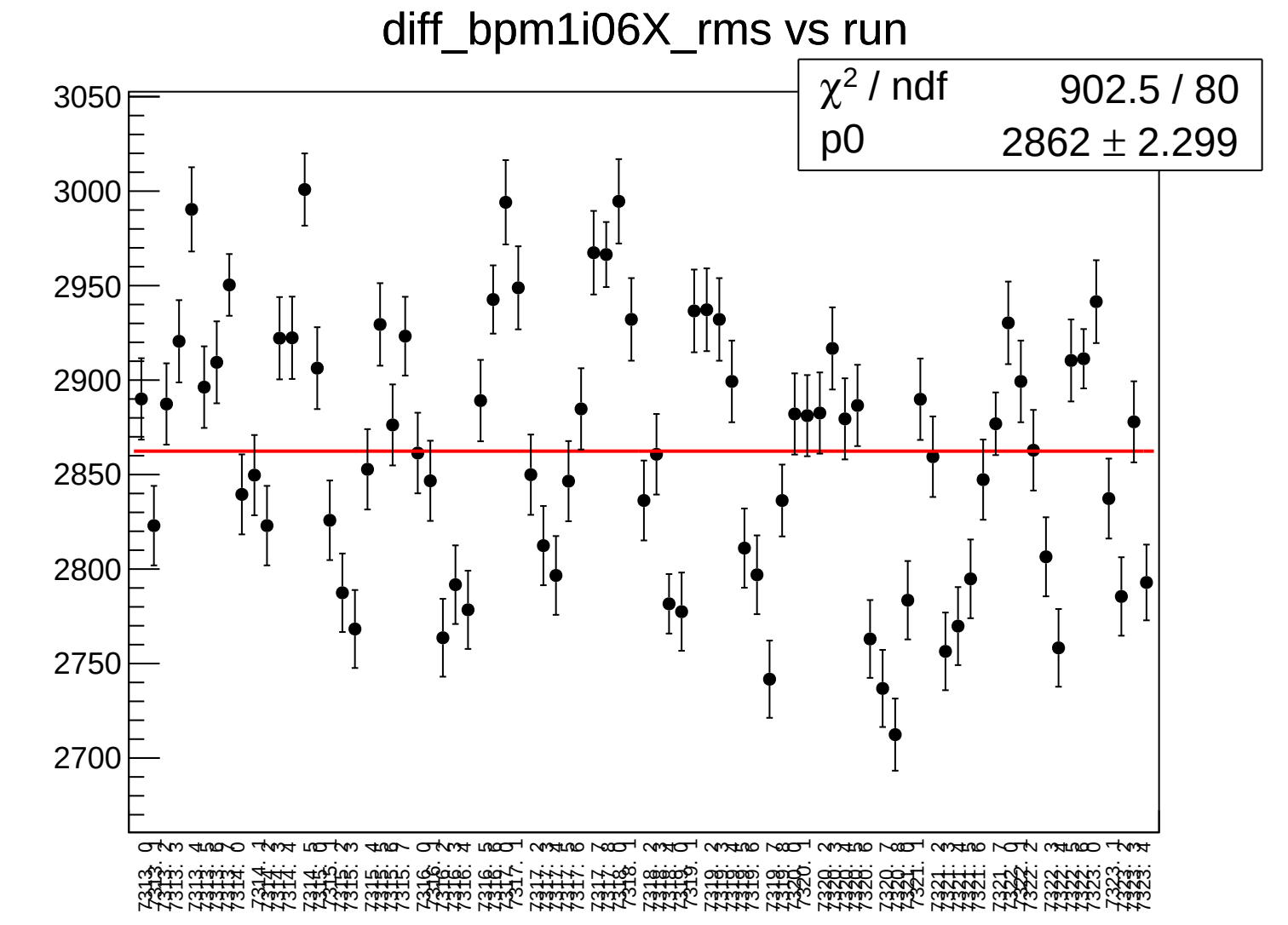

diff_bpm1i04Y_mean vs run
χ^2 / ndf 91.92 / 80
p0 −18.17 ± 1.032
pull
Entries 81
Mean −311.3
Std Dev 591.5

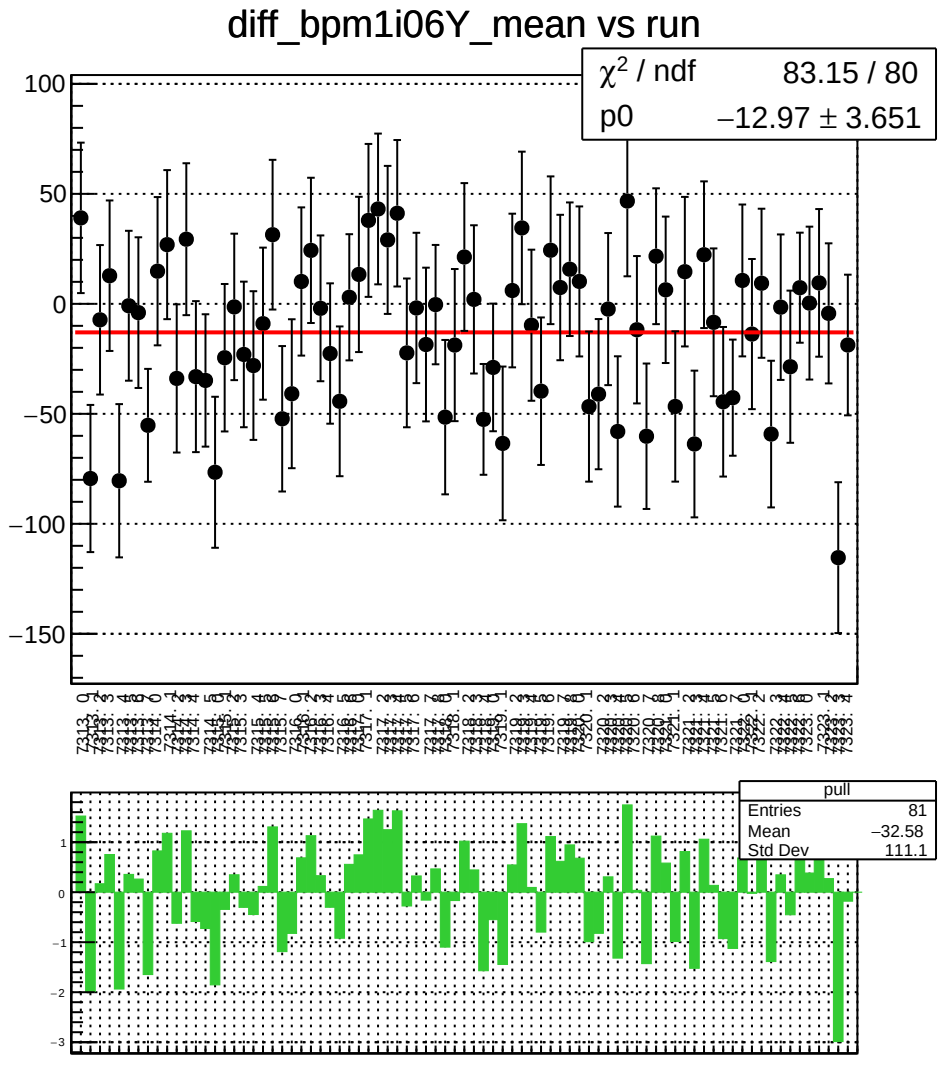

pull1D
Entries 81
Mean −0.0002912
Std Dev 1.065

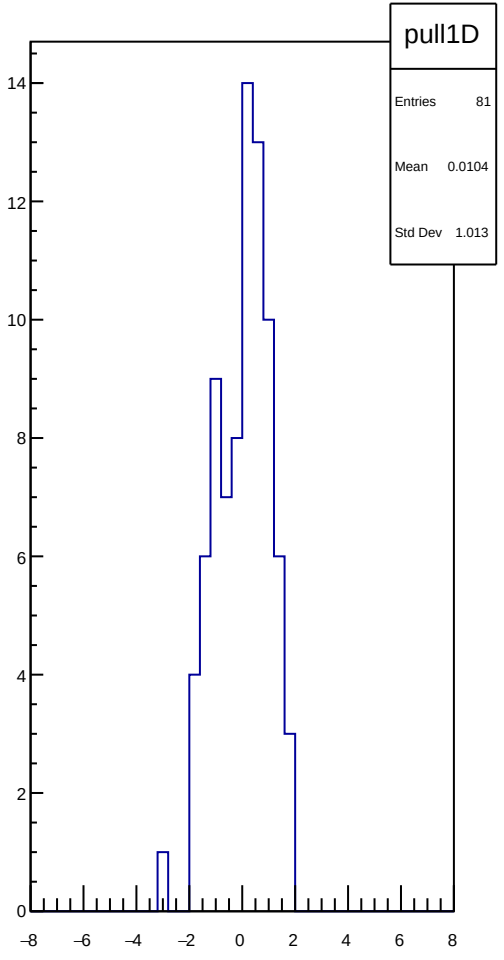

diff_bpm1i04Y_rms vs run
χ² / ndf 6118 / 80
p0 907.2 ± 0.7299
1050
1000
950
900
850
800

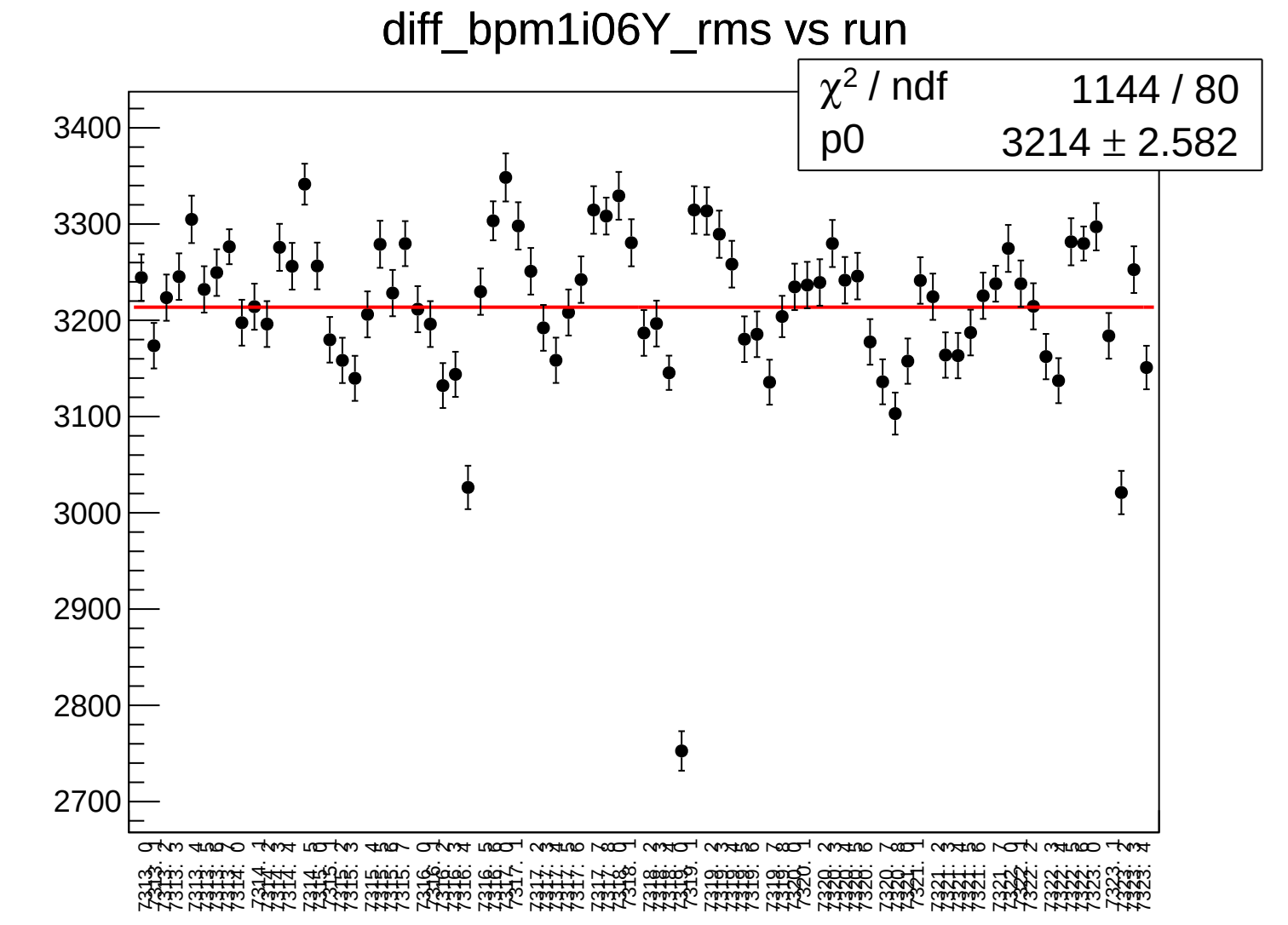

diff_bpm1i06X_mean vs run
χ² / ndf 88.23 / 80
p0 40.35 ± 3.252
150
100
50
0
−50
pull
Entries 81
Mean 33.12
Std Dev 101.8
2
1
0
−1
−2
−3

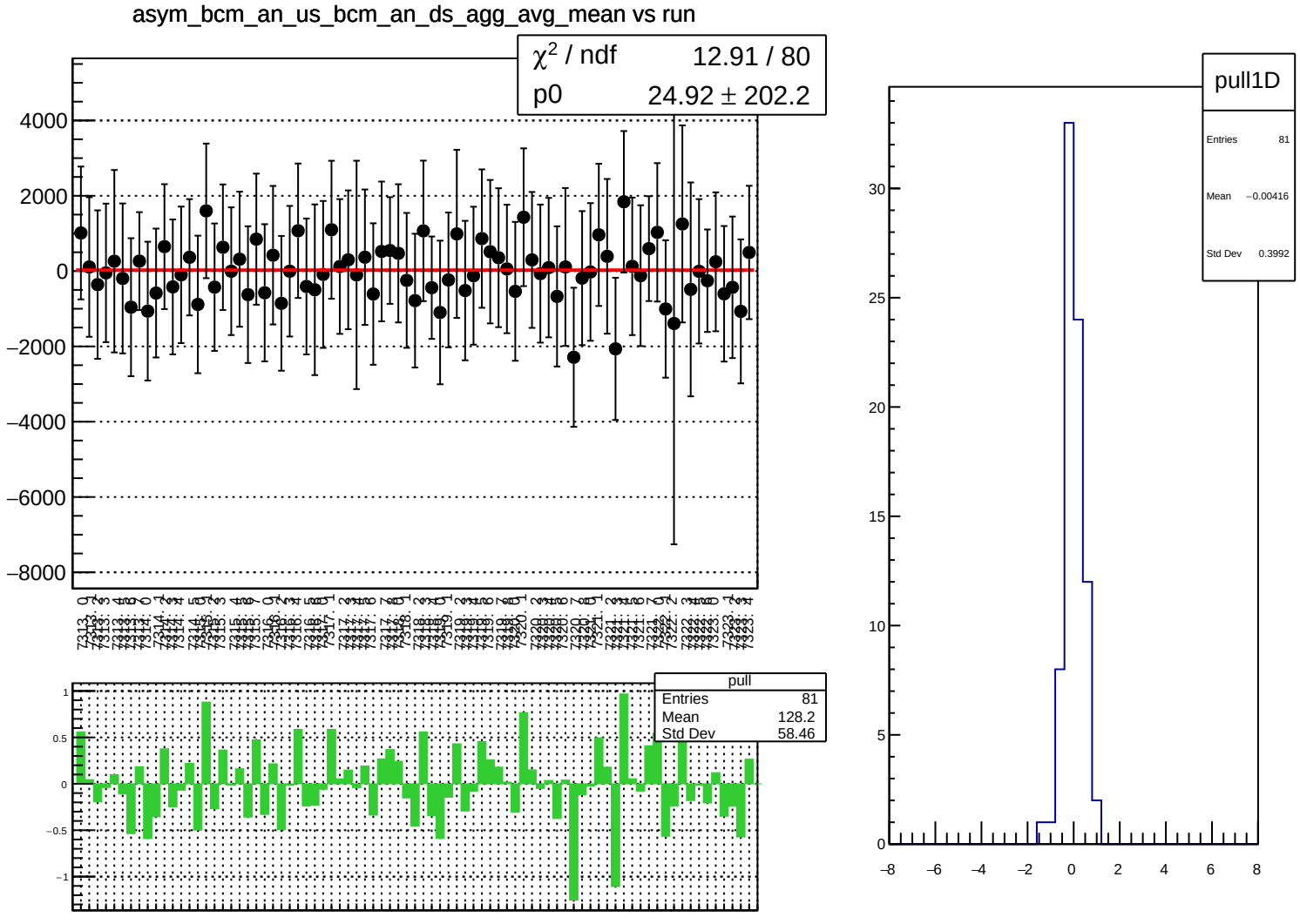

pull1D
Entries 81
Mean 0.004439
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

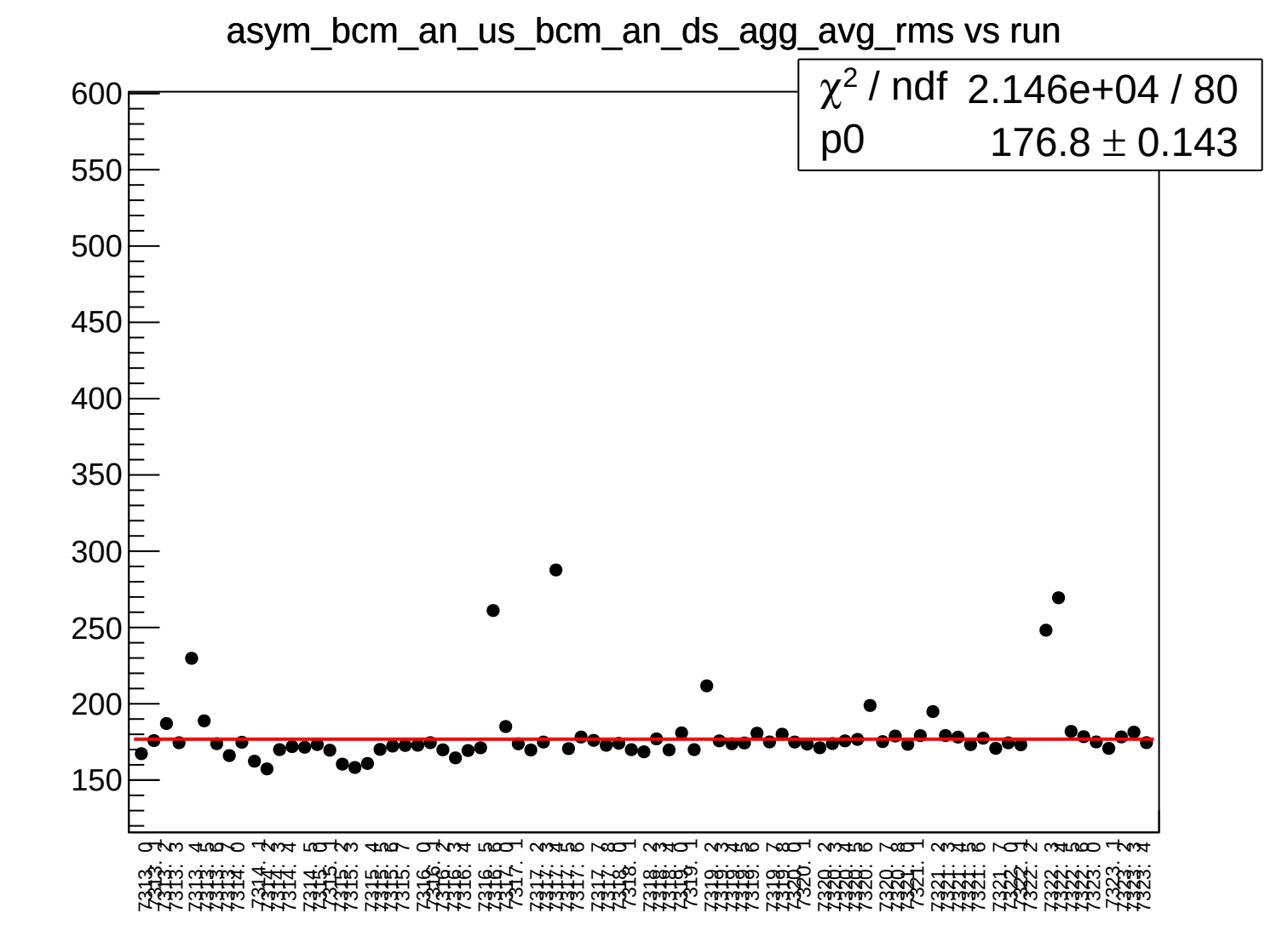

diff_bpm1i06X_rms vs run
χ² / ndf 902.5 / 80
p0 2862 ± 2.299
3050
3000
2950
2900
2850
2800
2750
2700

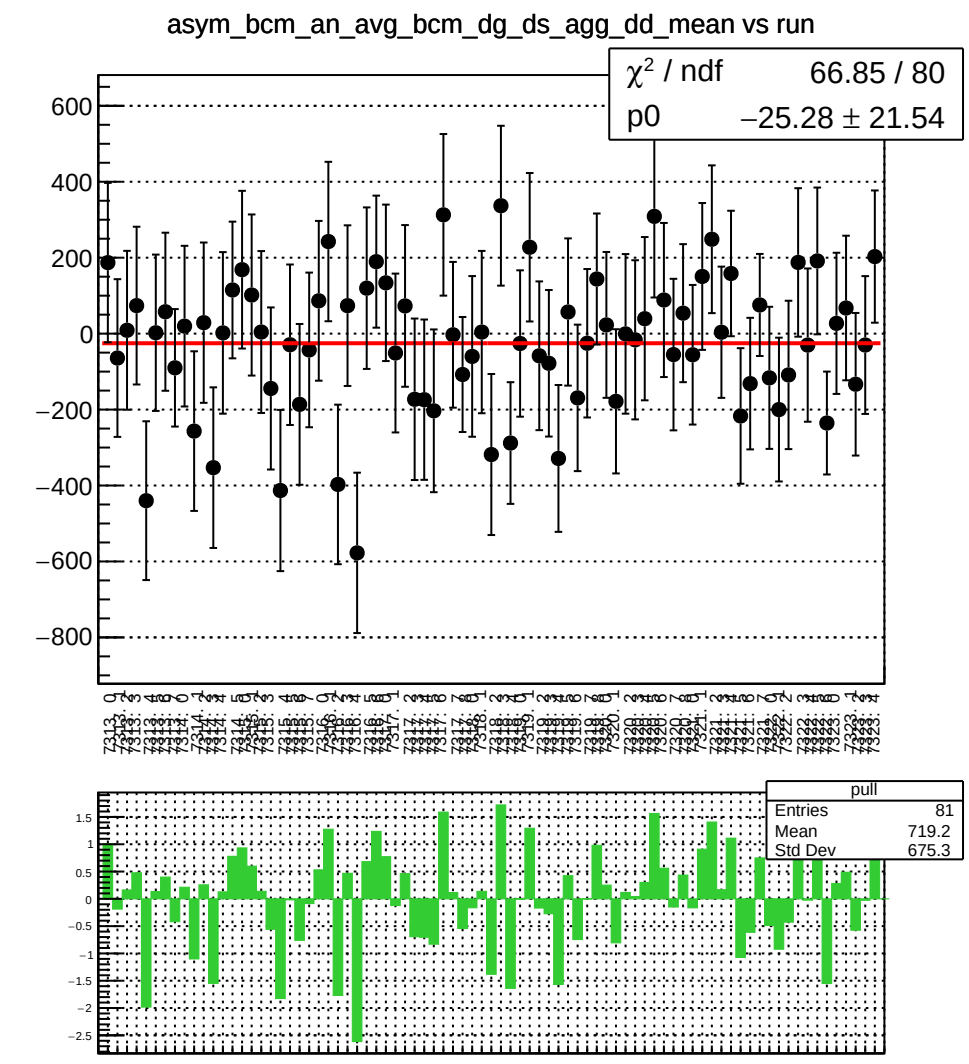

diff_bpm1i06Y_mean vs run
χ^2 / ndf 83.15 / 80
p0 −12.97 ± 3.651
pull
Entries 81
Mean −32.58
Std Dev 111.1

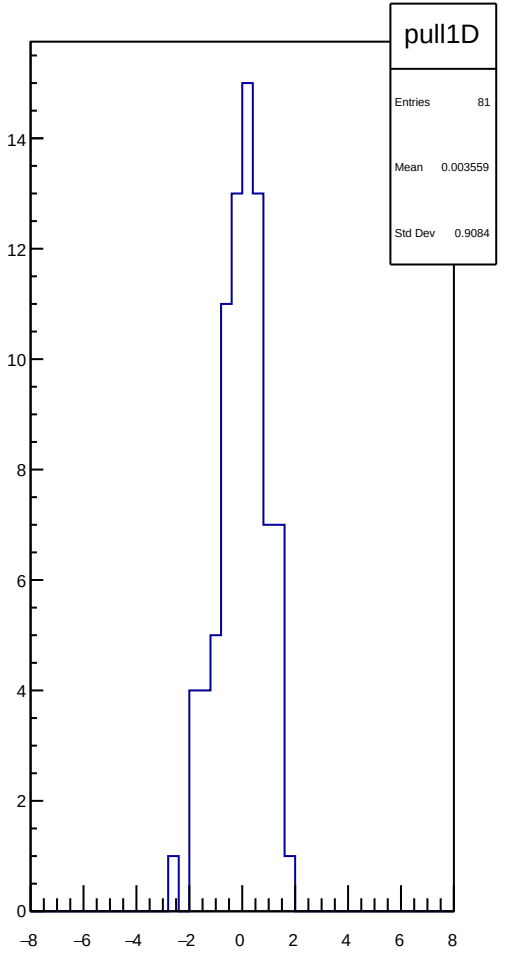

pull1D
Entries 81
Mean 0.0104
Std Dev 1.013

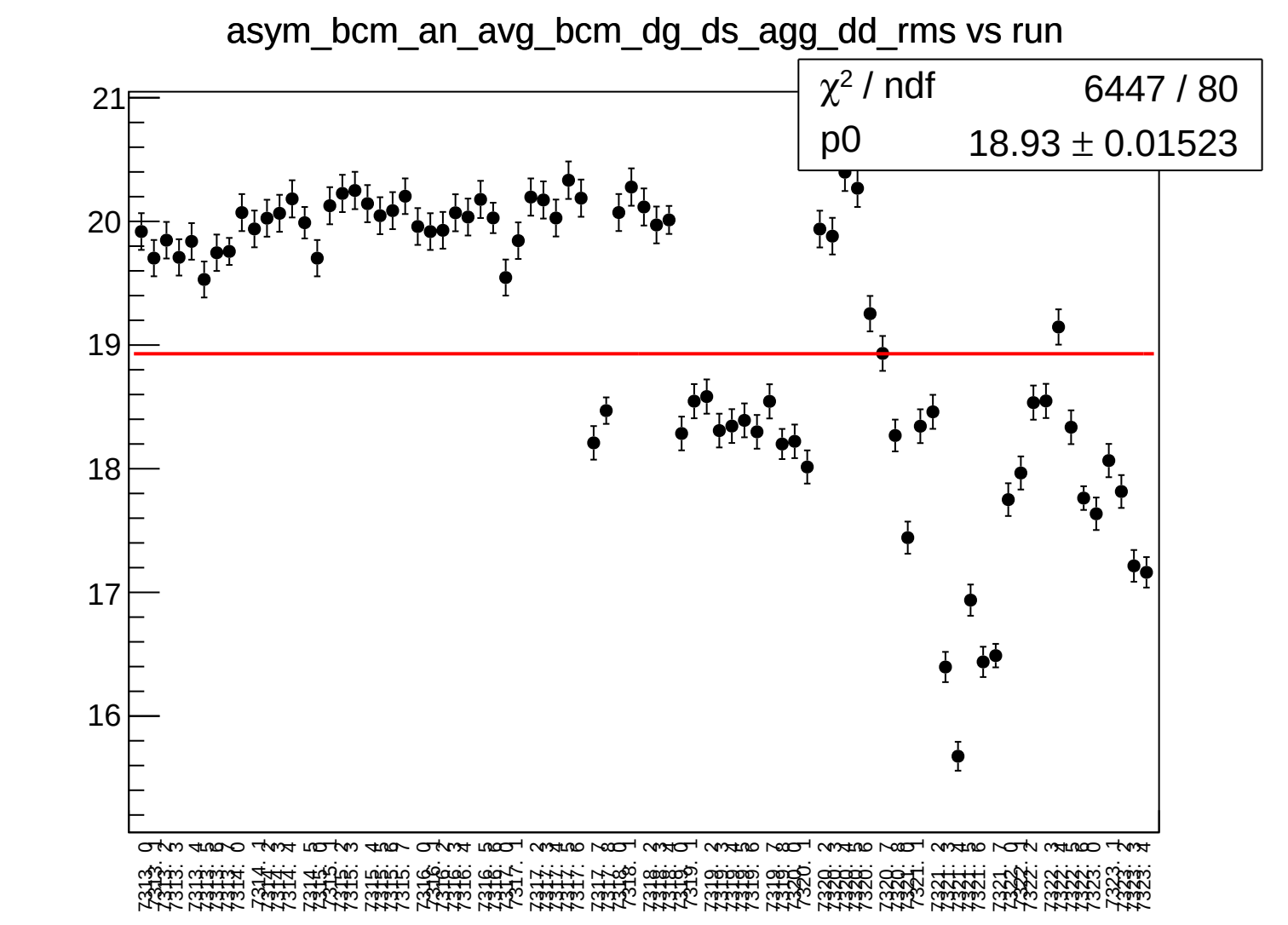

diff_bpm1i06Y_rms vs run
χ² / ndf 1144 / 80
p0 3214 ± 2.582
3400
3300
3200
3100
3000
2900
2800
2700

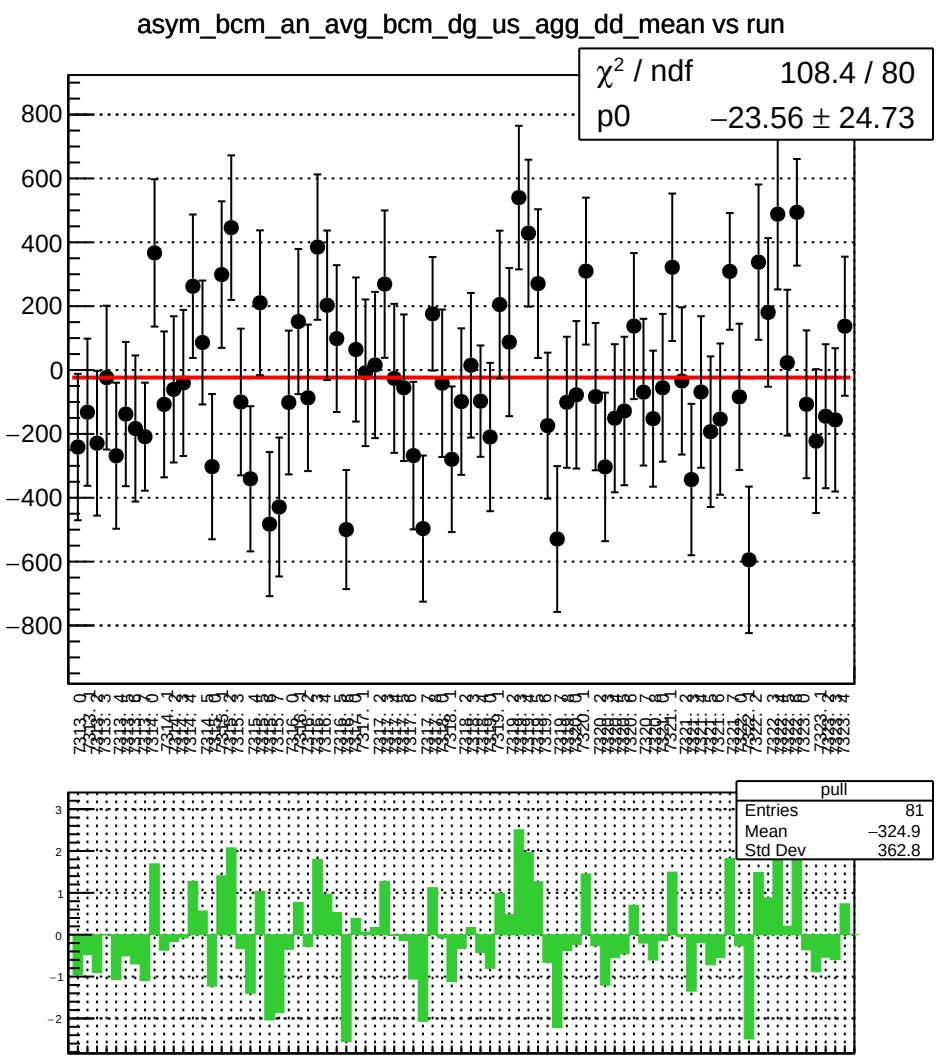

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.91 / 80
p0 24.92 ± 202.2
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 128.2
Std Dev 58.46
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.00416
Std Dev 0.3992
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

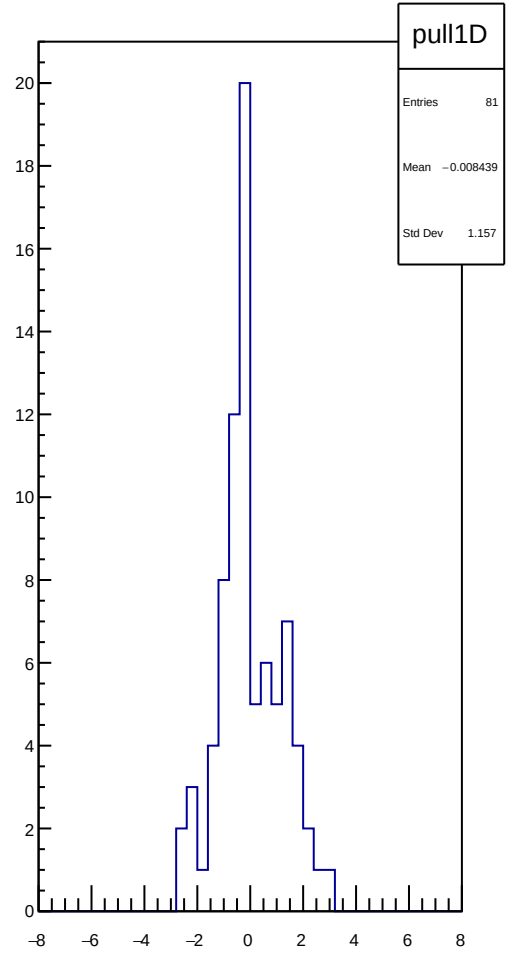

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.146e+04 / 80
p0 176.8 ± 0.143
600
550
500
450
400
350
300
250
200
150

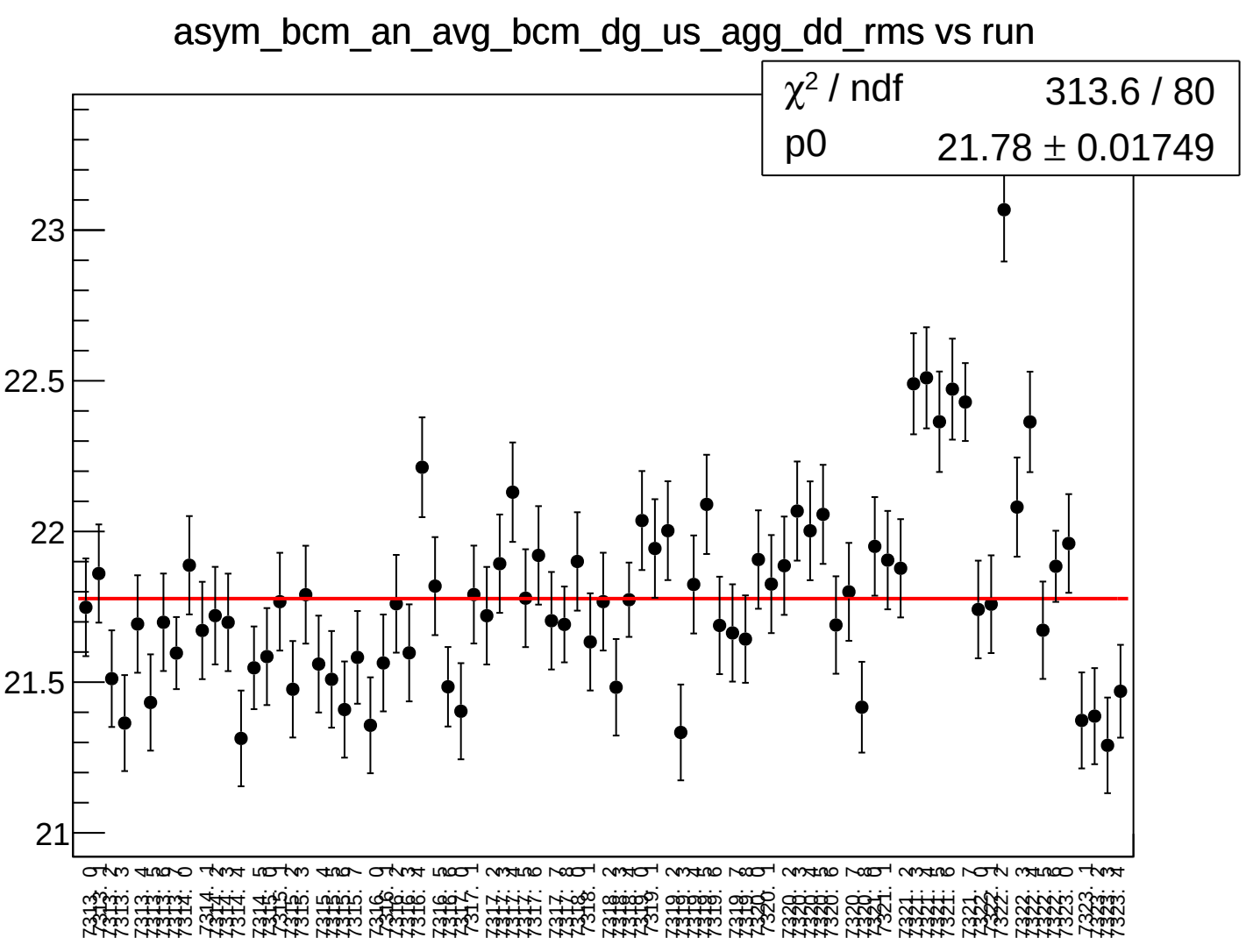

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 66.85 / 80
p0 −25.28 ± 21.54
pull
Entries 81
Mean 719.2
Std Dev 675.3

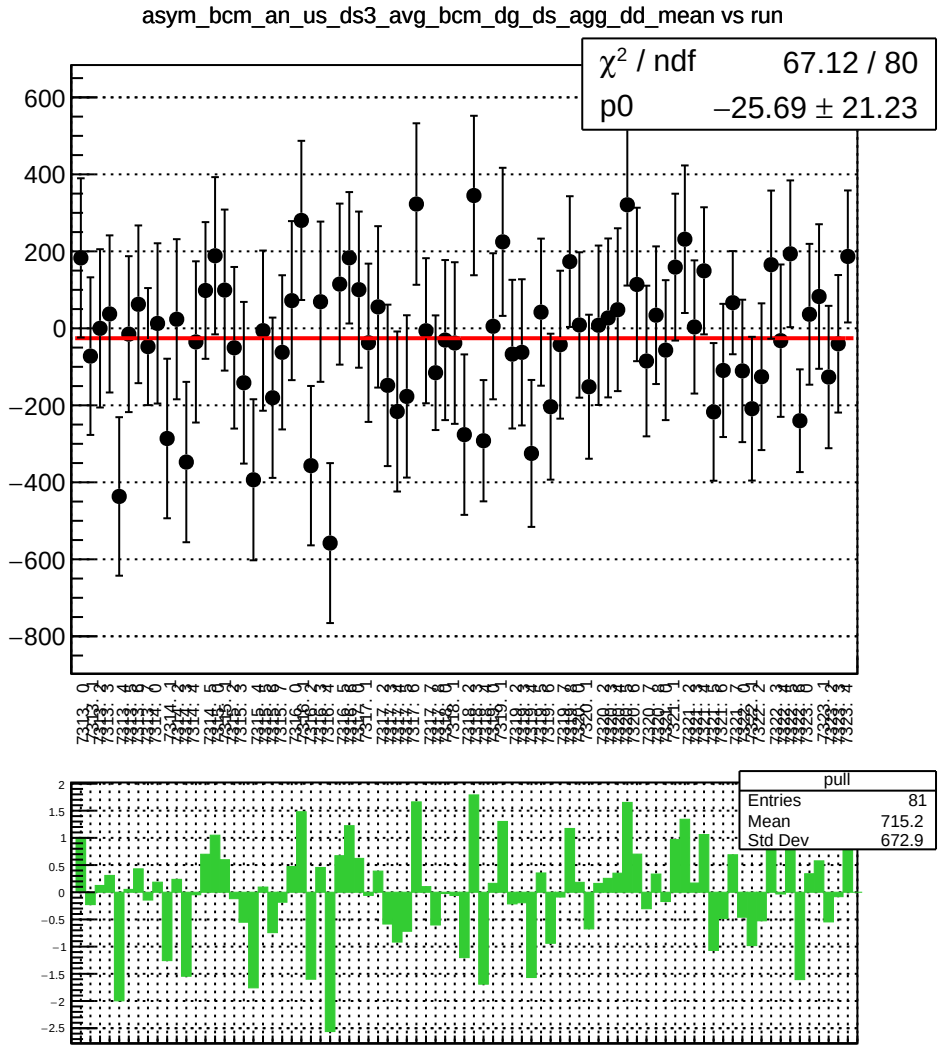

pull1D
Entries 81
Mean 0.003559
Std Dev 0.9084

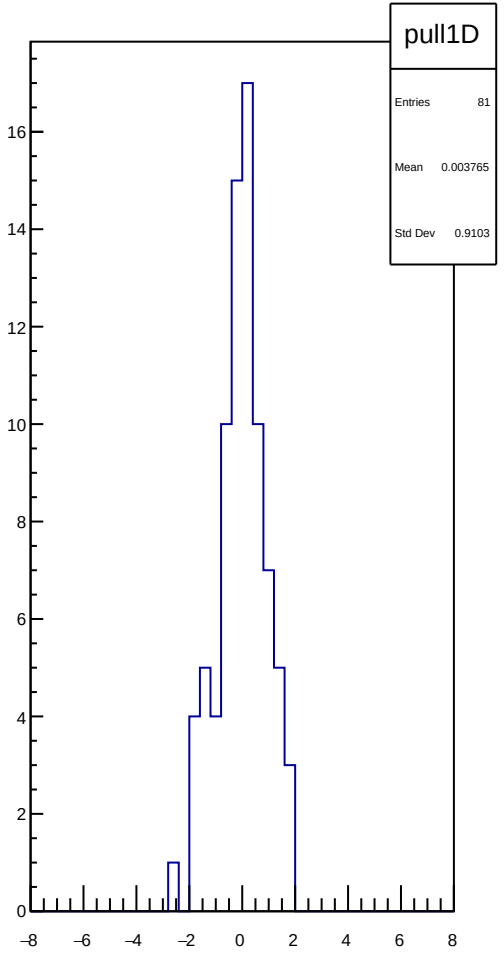

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6447 / 80
p0 18.93 ± 0.01523
21
20
19
18
17
16

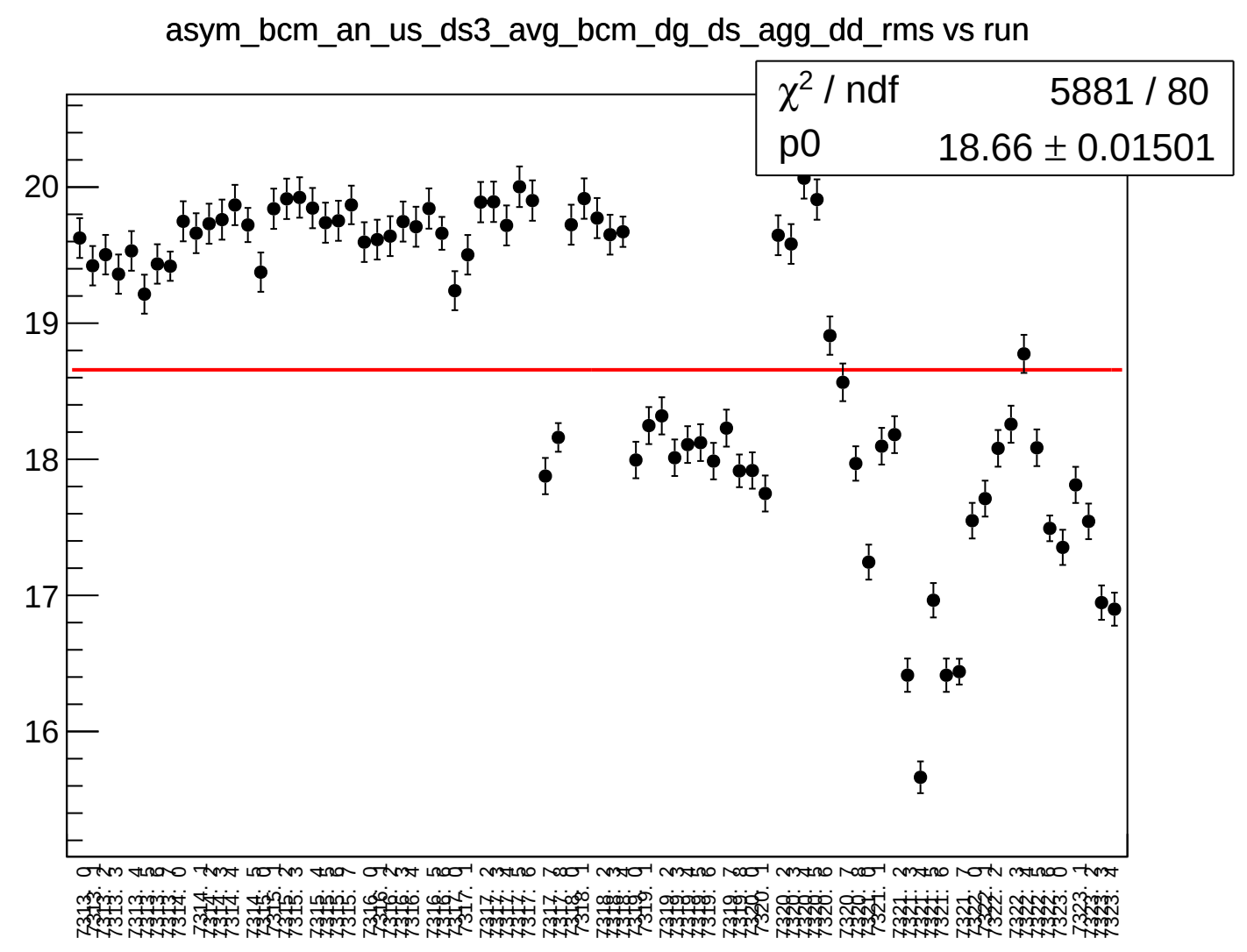

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 108.4 / 80
p0 −23.56 ± 24.73
pull
Entries 81
Mean −324.9
Std Dev 362.8

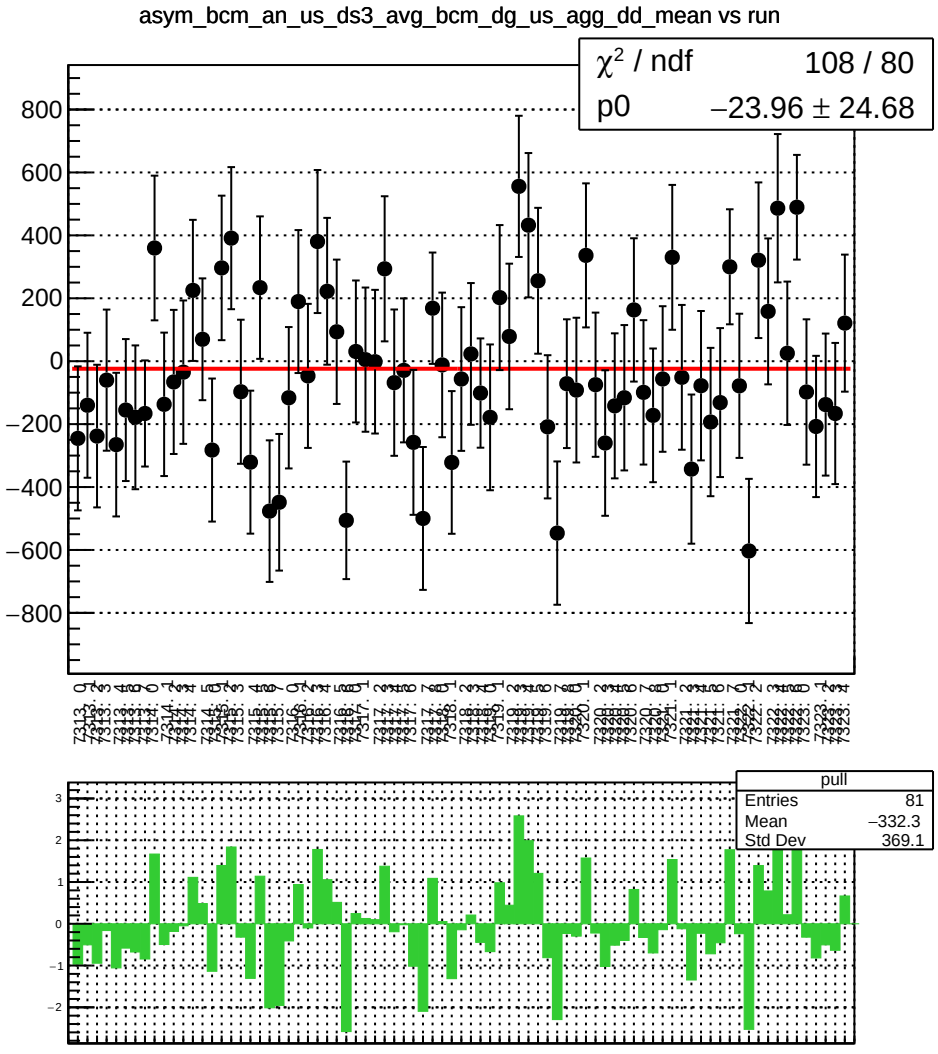

pull1D
Entries 81
Mean −0.008439
Std Dev 1.157

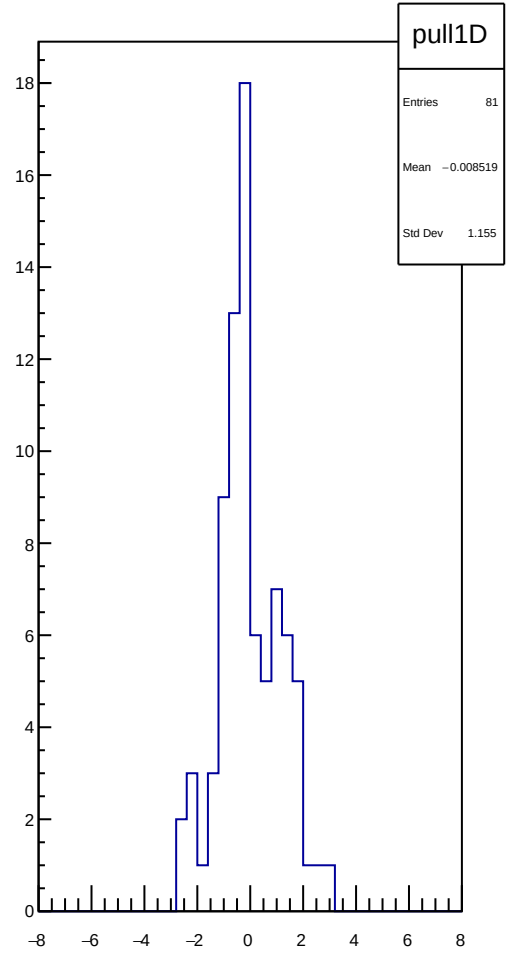

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 313.6 / 80
p0 21.78 ± 0.01749
23
22.5
22
21.5
21

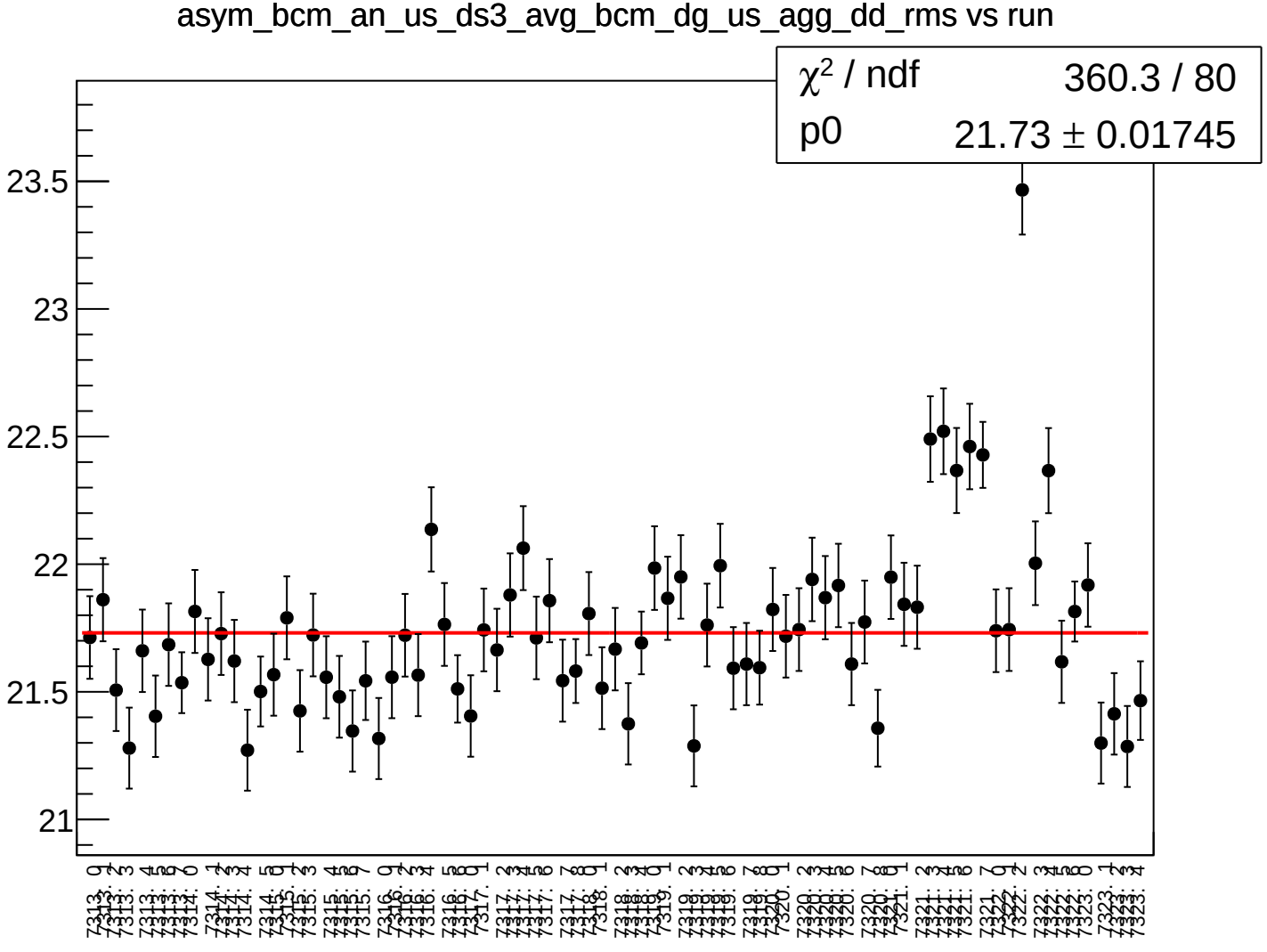

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 67.12 / 80
p0 −25.69 ± 21.23
pull
Entries 81
Mean 715.2
Std Dev 672.9

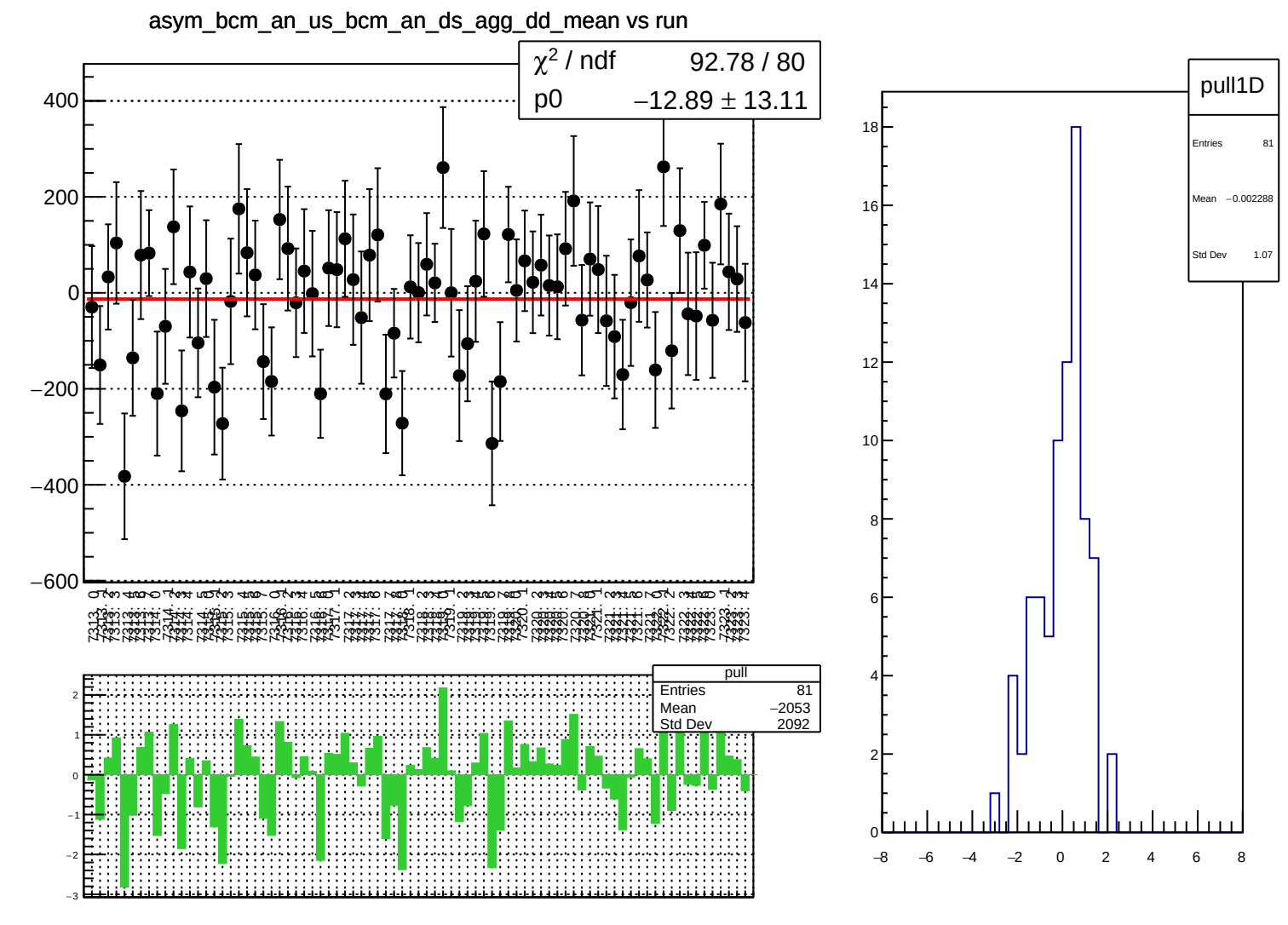

pull1D
Entries 81
Mean 0.003765
Std Dev 0.9103

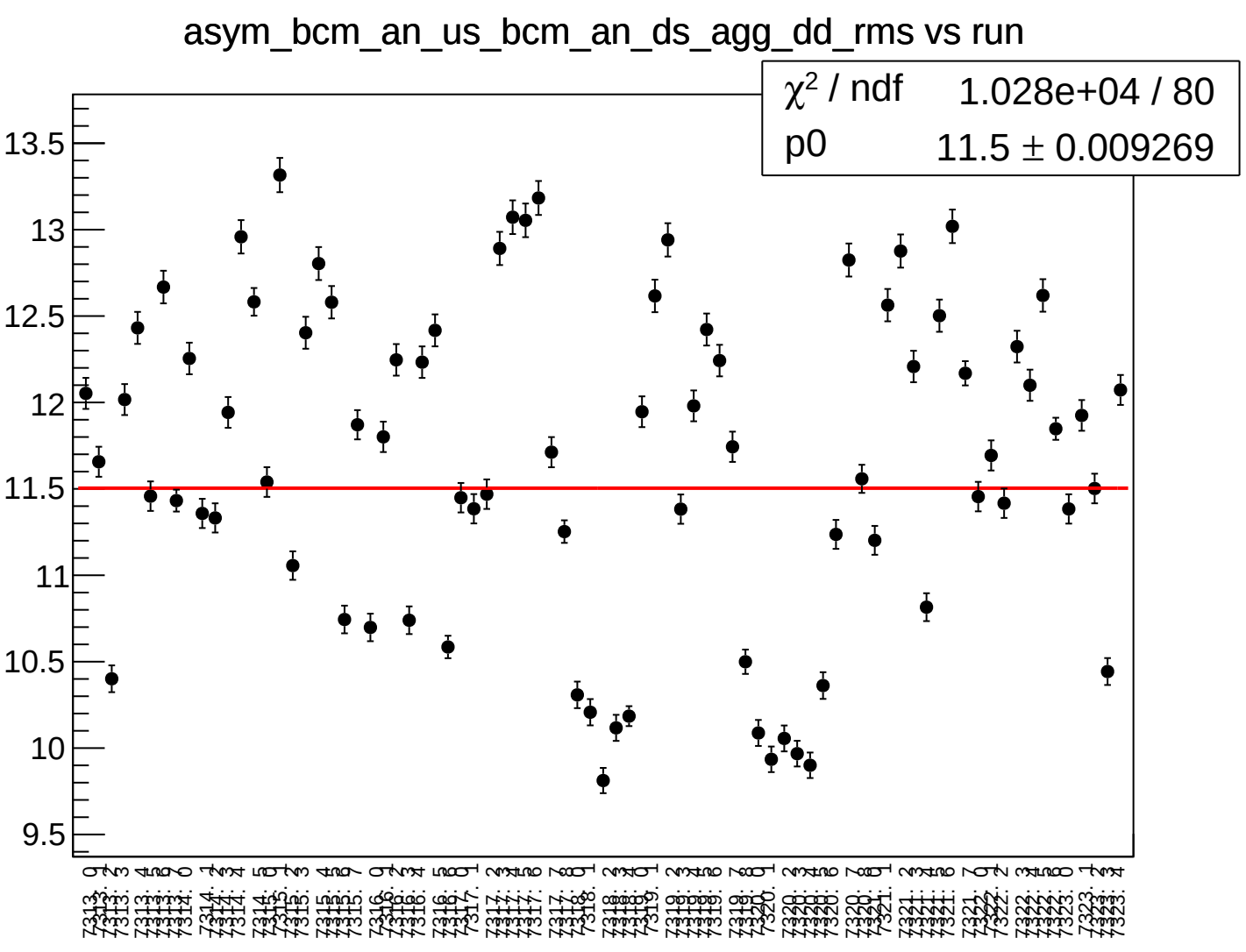

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5881 / 80
p0 18.66 ± 0.01501
20
19
18
17
16

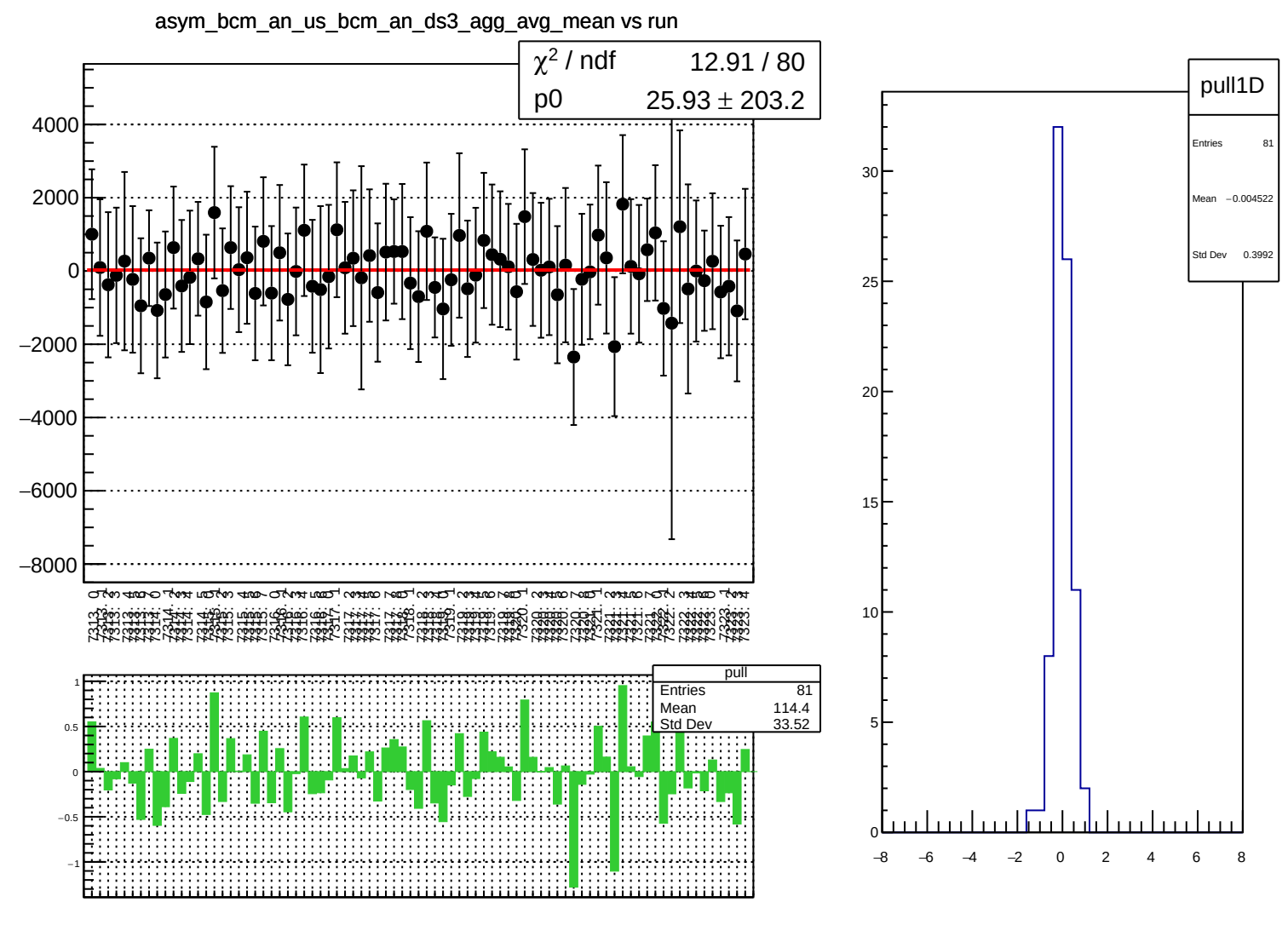

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 108 / 80
p0 −23.96 ± 24.68
pull
Entries 81
Mean −332.3
Std Dev 369.1

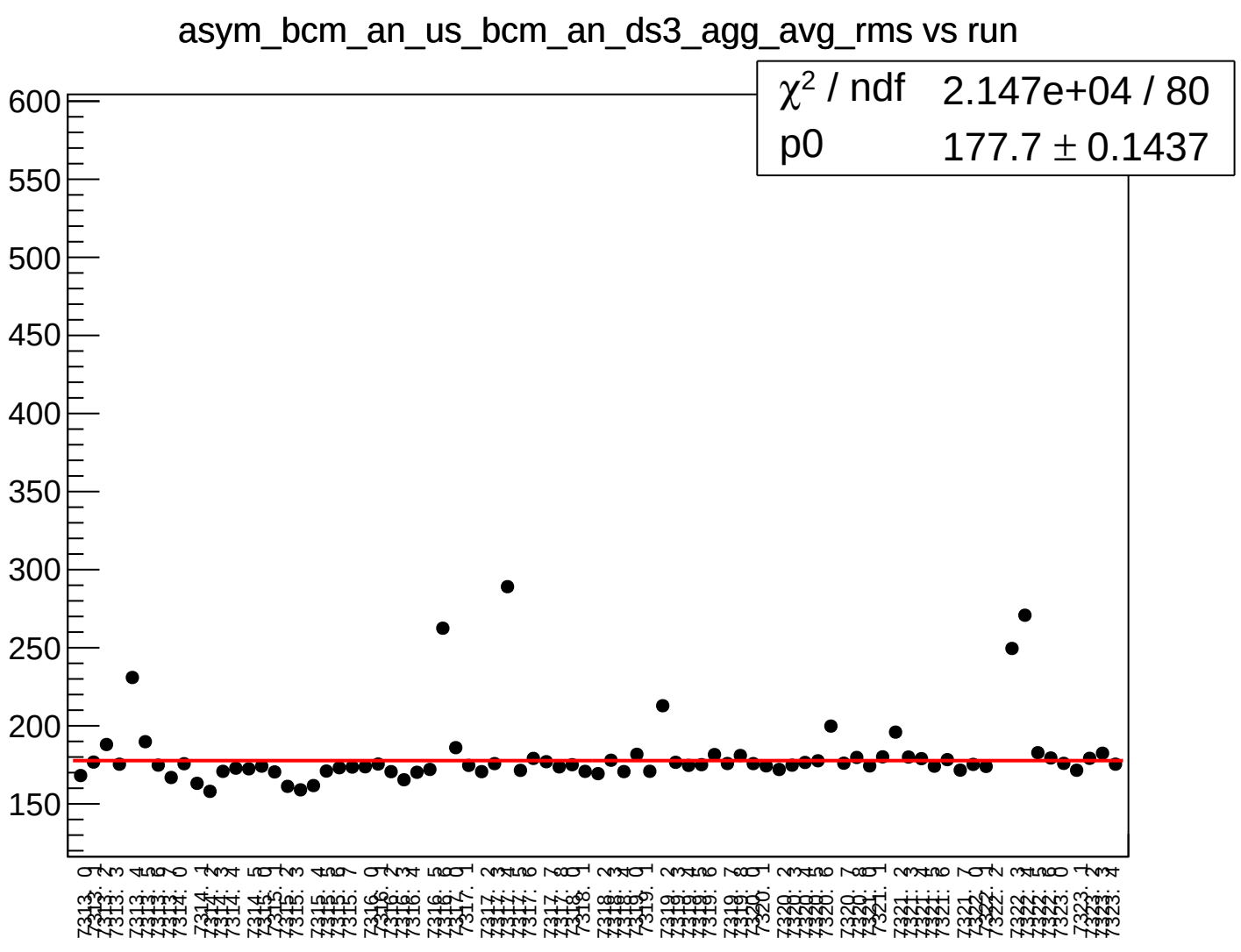

pull1D
Entries 81
Mean −0.008519
Std Dev 1.155

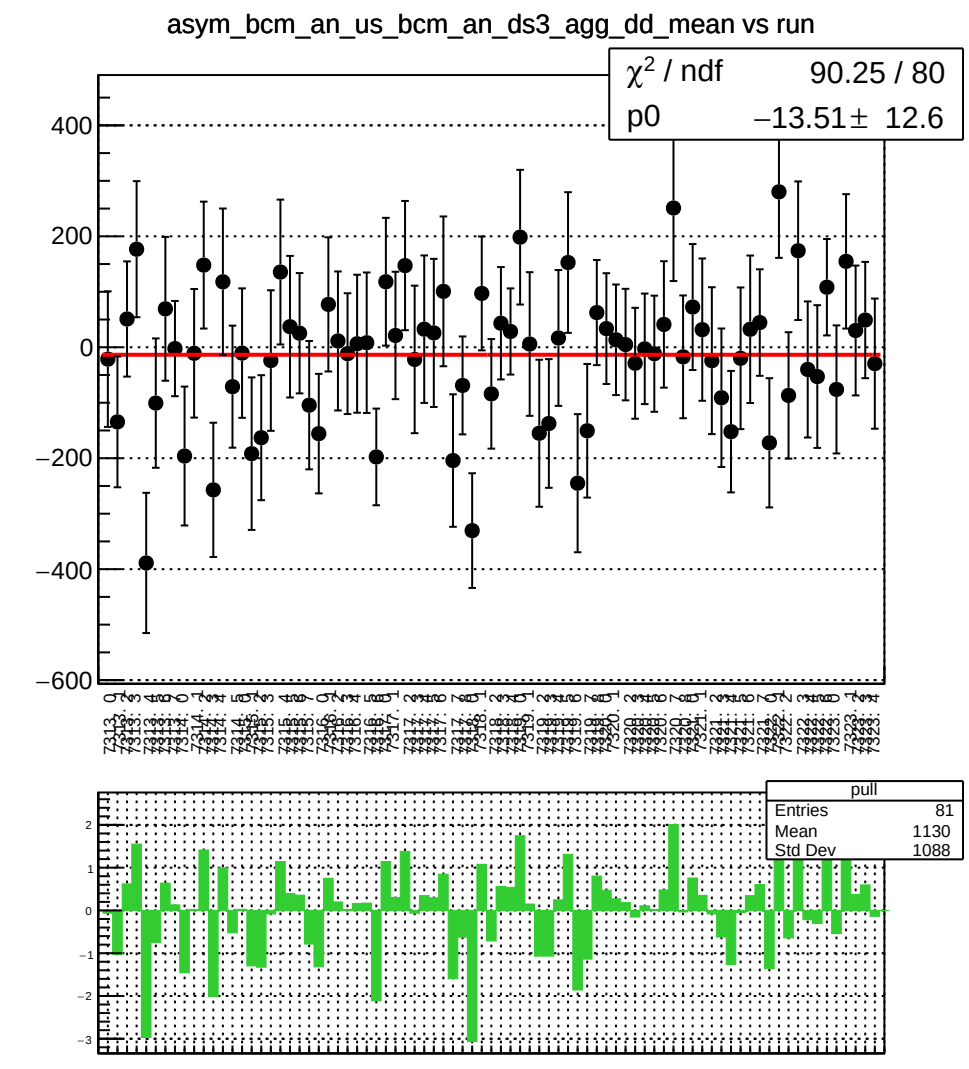

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 360.3 / 80
p0 21.73 ± 0.01745
23.5
23
22.5
22
21.5
21

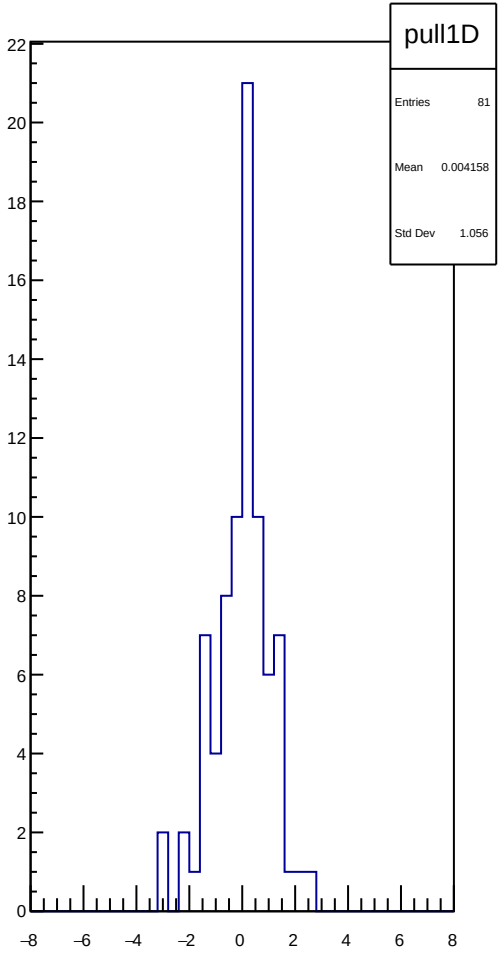

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 92.78 / 80
p0 −12.89 ± 13.11
pull
Entries 81
Mean −2053
Std Dev 2092
pull1D
Entries 81
Mean −0.002288
Std Dev 1.07

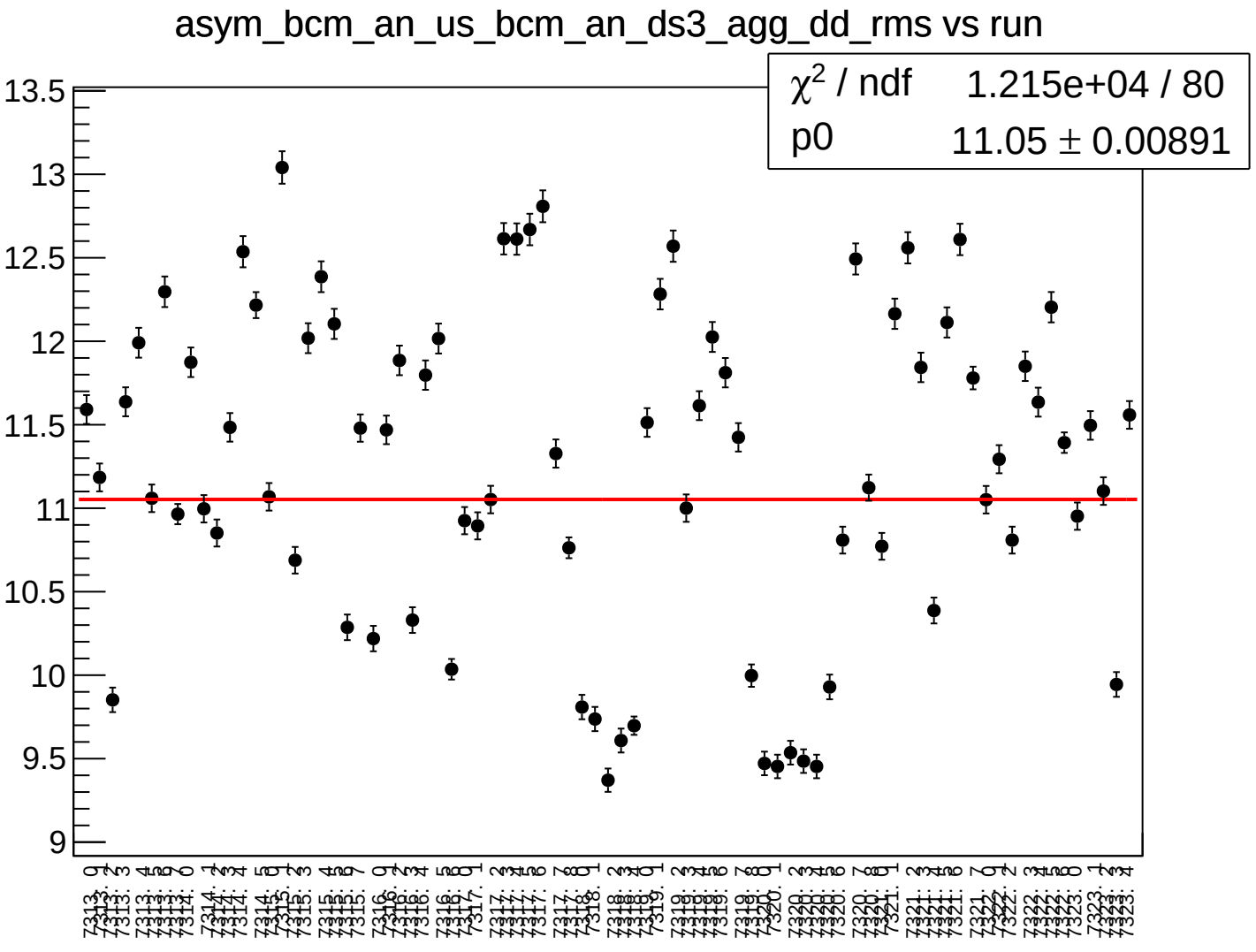

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.028e+04 / 80
p0 11.5 ± 0.009269
13.5
13
12.5
12
11.5
11
10.5
10
9.5

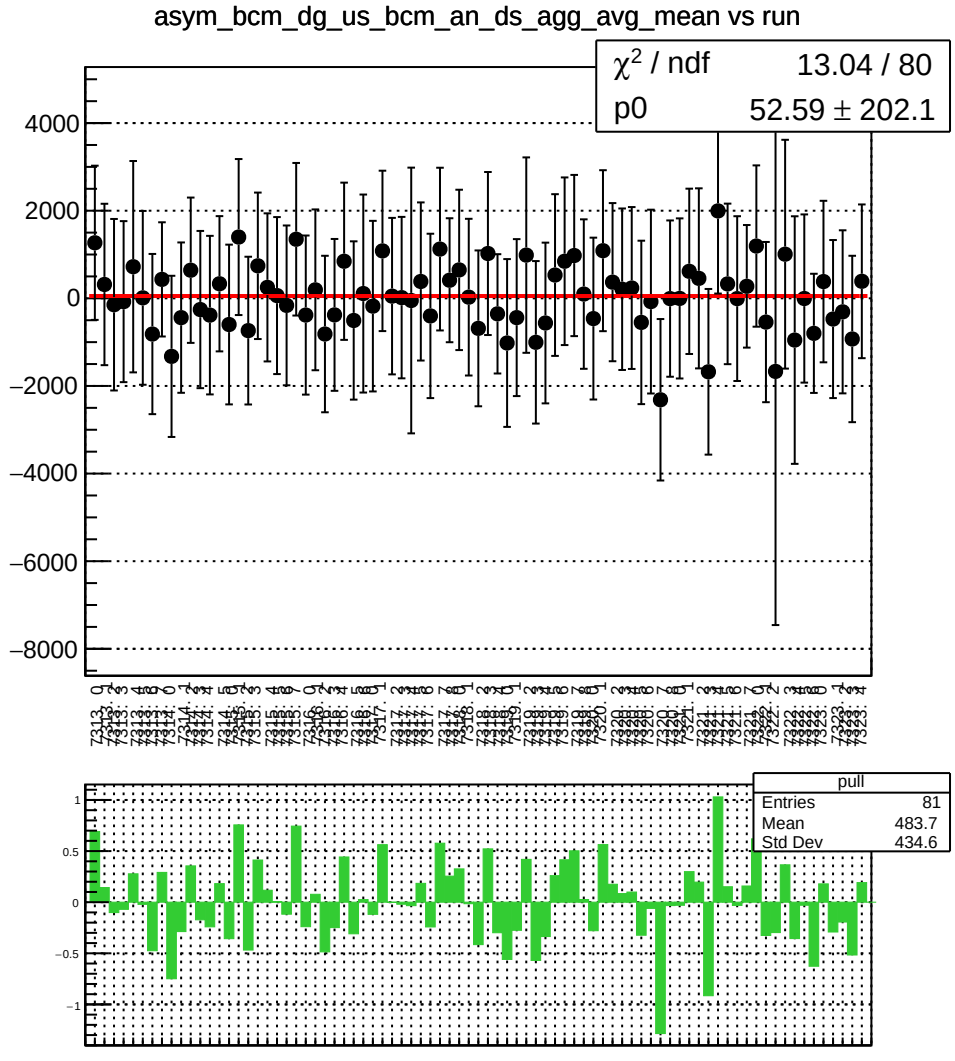

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.91 / 80
p0 25.93 ± 203.2
pull
Entries 81
Mean 114.4
Std Dev 33.52
pull1D
Entries 81
Mean −0.004522
Std Dev 0.3992

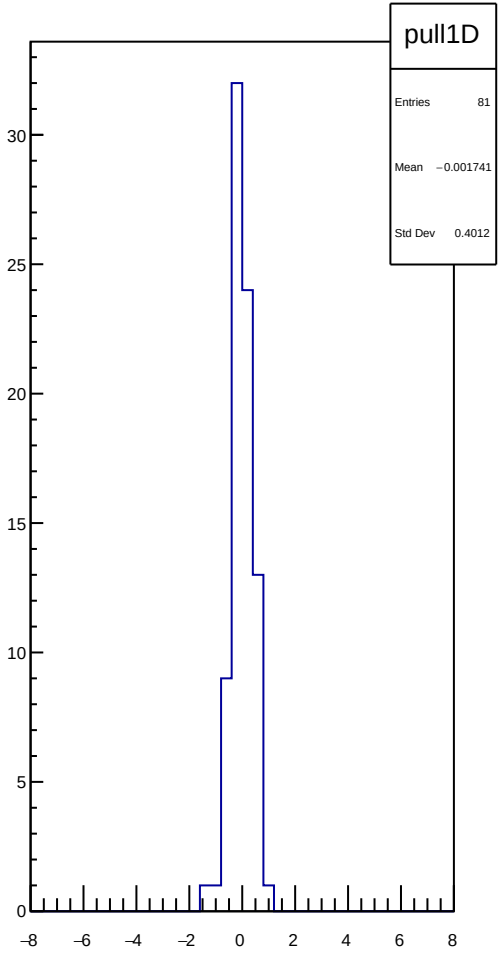

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.147e+04 / 80
p0 177.7 ± 0.1437
600
550
500
450
400
350
300
250
200
150

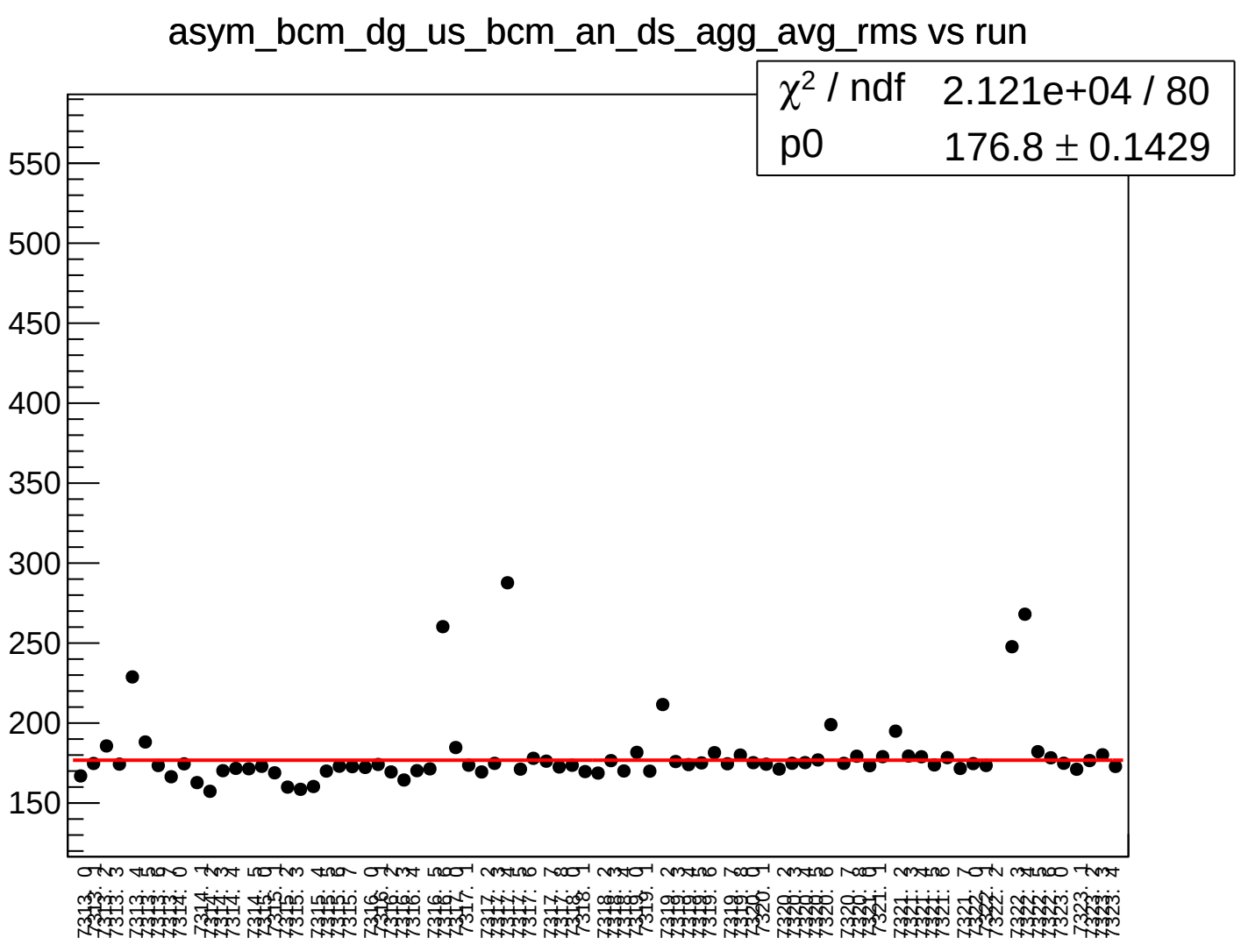

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 90.25 / 80
p0 −13.51 ± 12.6
pull
Entries 81
Mean 1130
Std Dev 1088

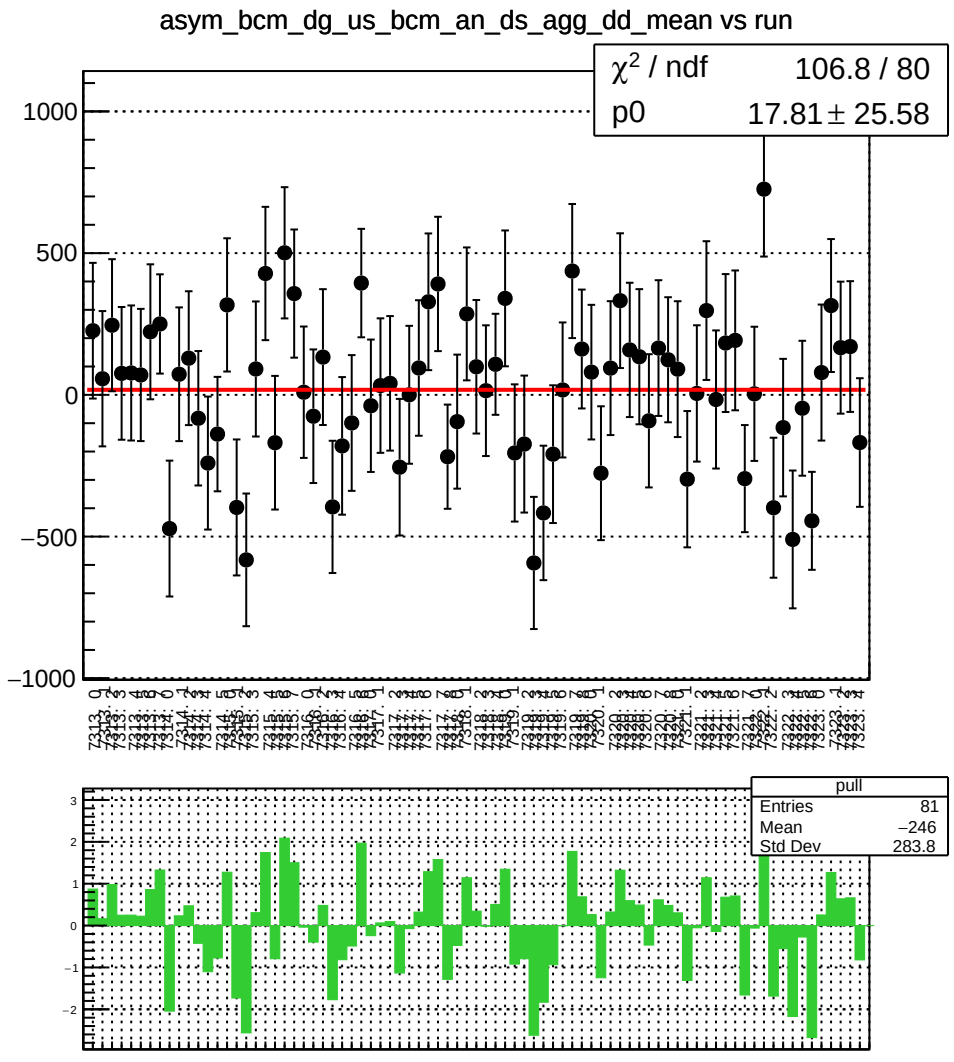

pull1D
Entries 81
Mean 0.004158
Std Dev 1.056

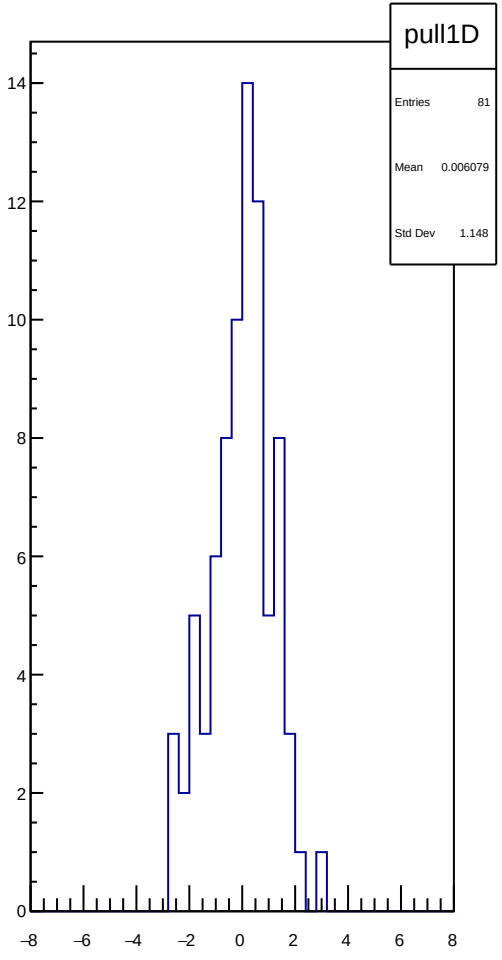

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.215e+04 / 80
p0 11.05 ± 0.00891
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9

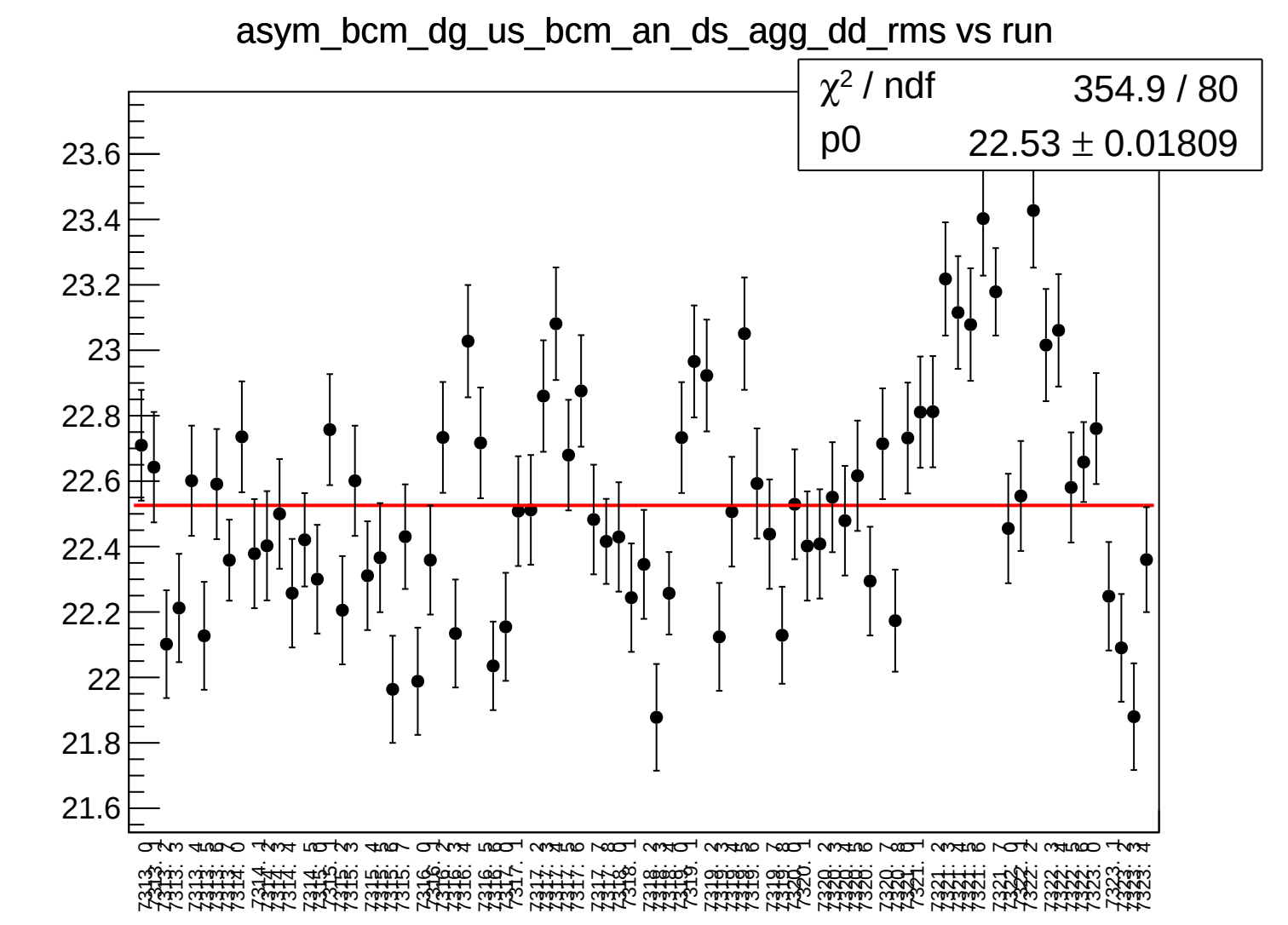

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.04 / 80
p0 52.59 ± 202.1
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 483.7
Std Dev 434.6
1
0.5
0
−0.5
−1

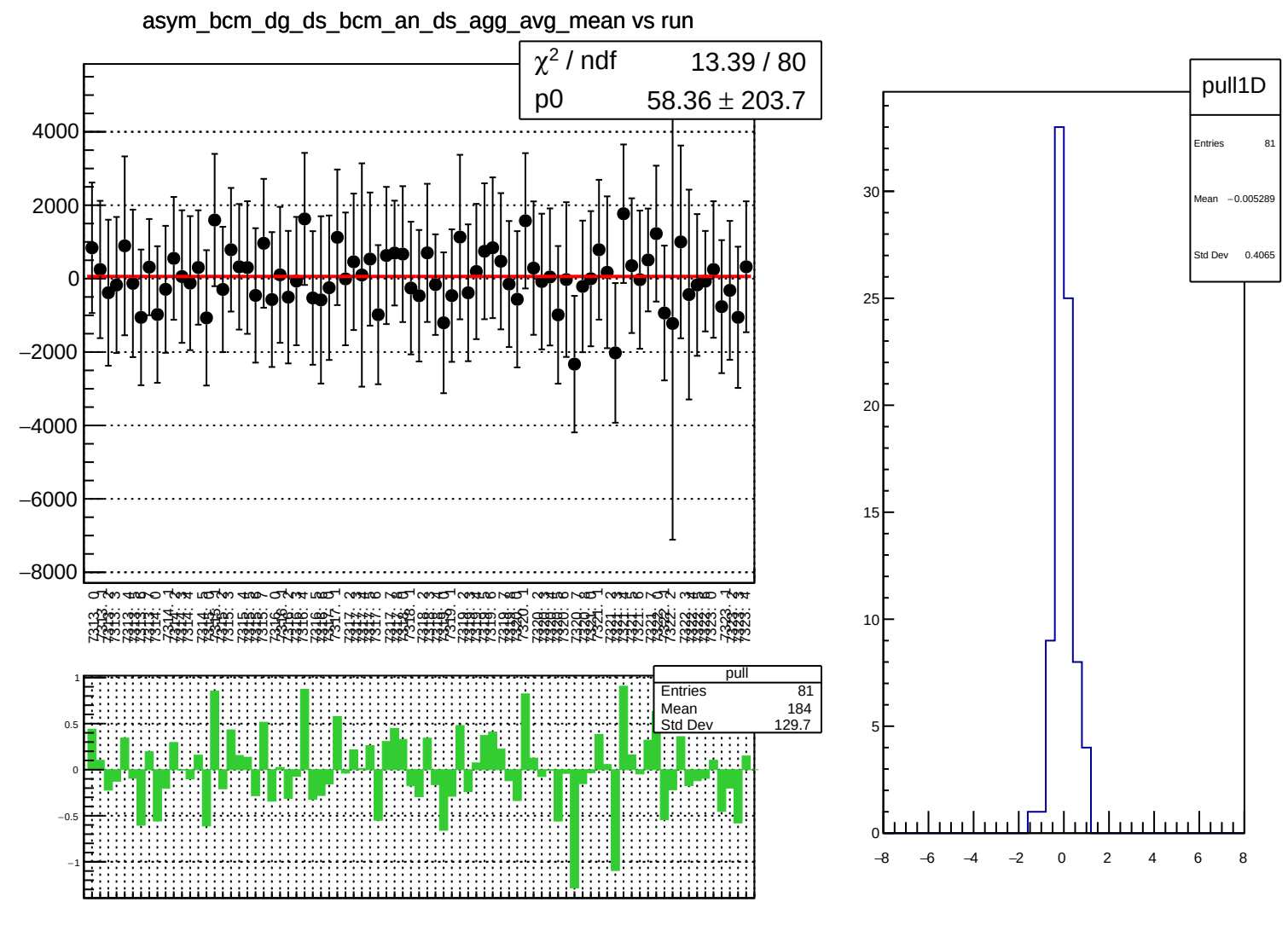

pull1D
Entries 81
Mean −0.001741
Std Dev 0.4012
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

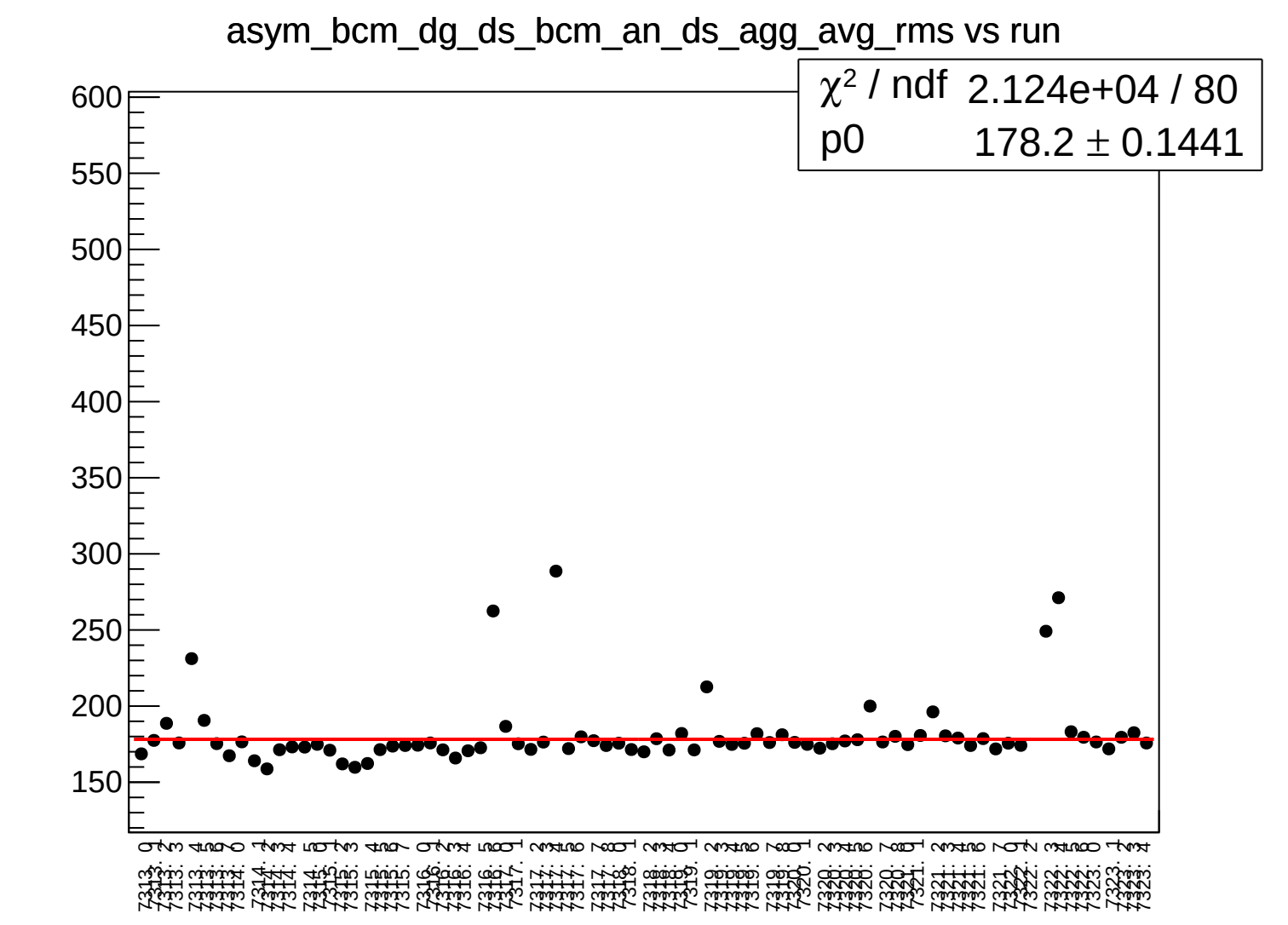

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.121e+04 / 80
p0 176.8 ± 0.1429
550
500
450
400
350
300
250
200
150

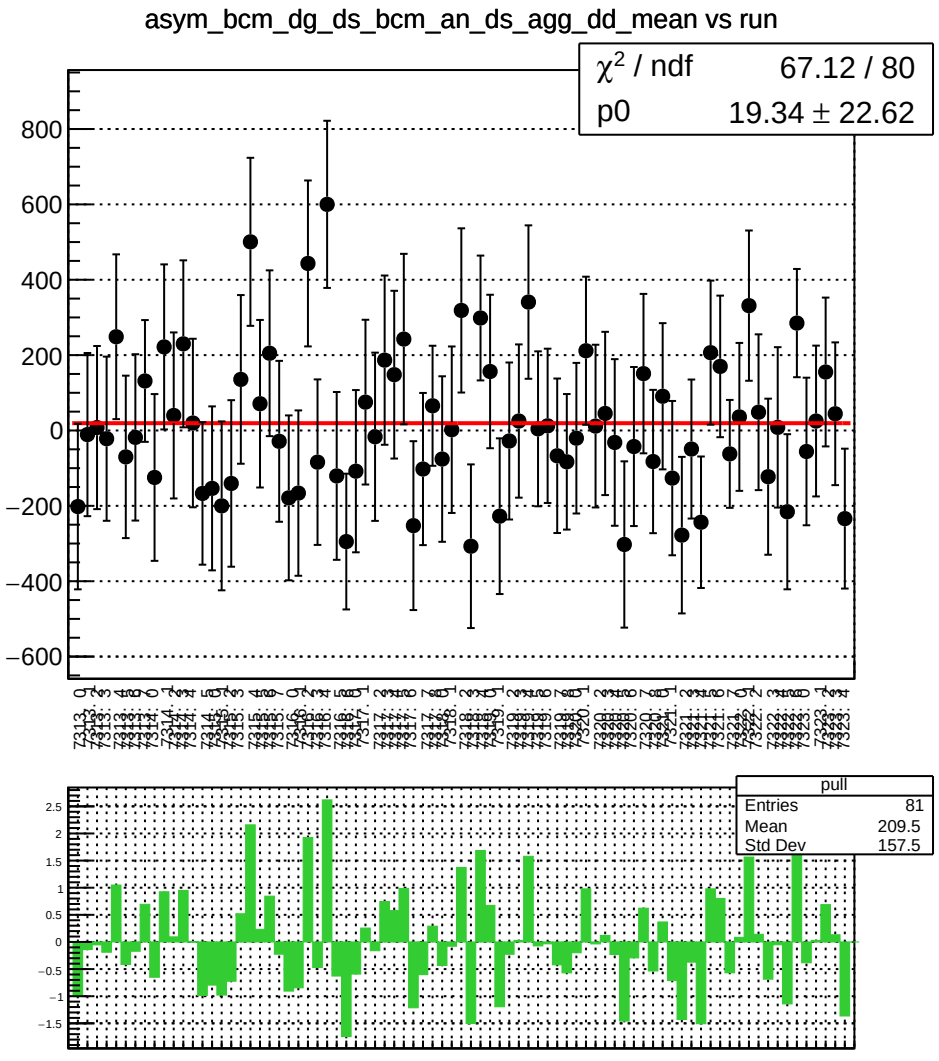

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 106.8 / 80
p0 17.81 ± 25.58
1000
500
0
−500
−1000
pull
Entries 81
Mean −246
Std Dev 283.8
3
2
1
0
−1
−2

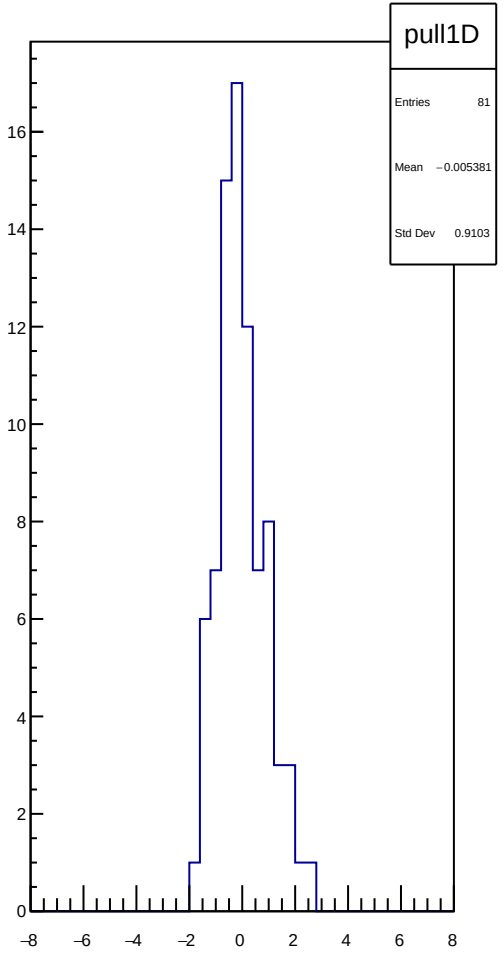

pull1D
Entries 81
Mean 0.006079
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

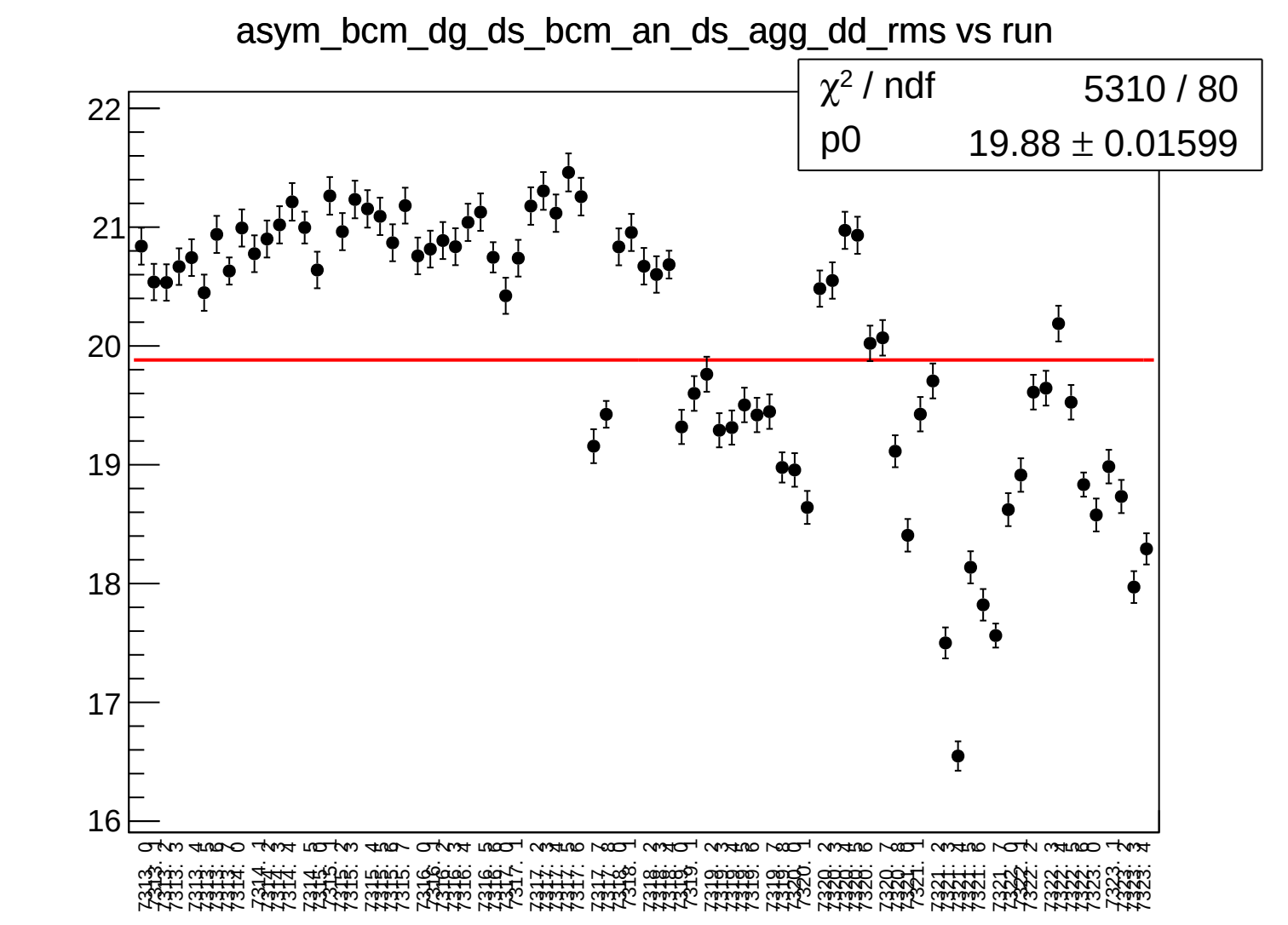

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 354.9 / 80
p0 22.53 ± 0.01809
23.6
23.4
23.2
23
22.8
22.6
22.4
22.2
22
21.8
21.6

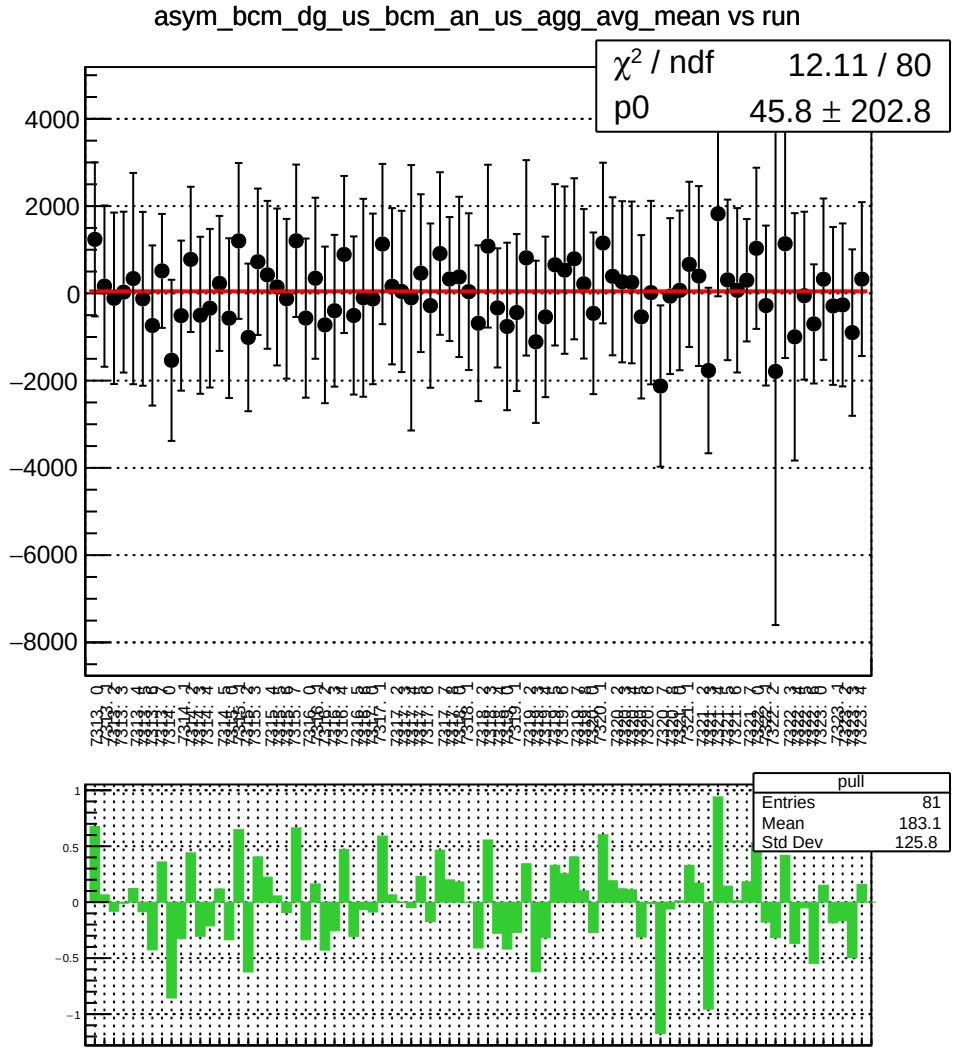

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.39 / 80
p0 58.36 ± 203.7
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 184
Std Dev 129.7
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.005289
Std Dev 0.4065
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

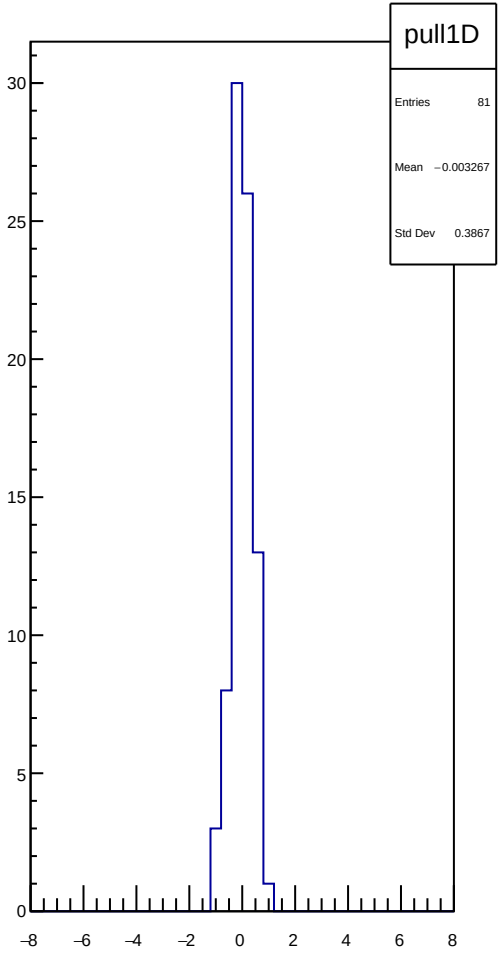

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.124e+04 / 80
p0 178.2 ± 0.1441
600
550
500
450
400
350
300
250
200
150

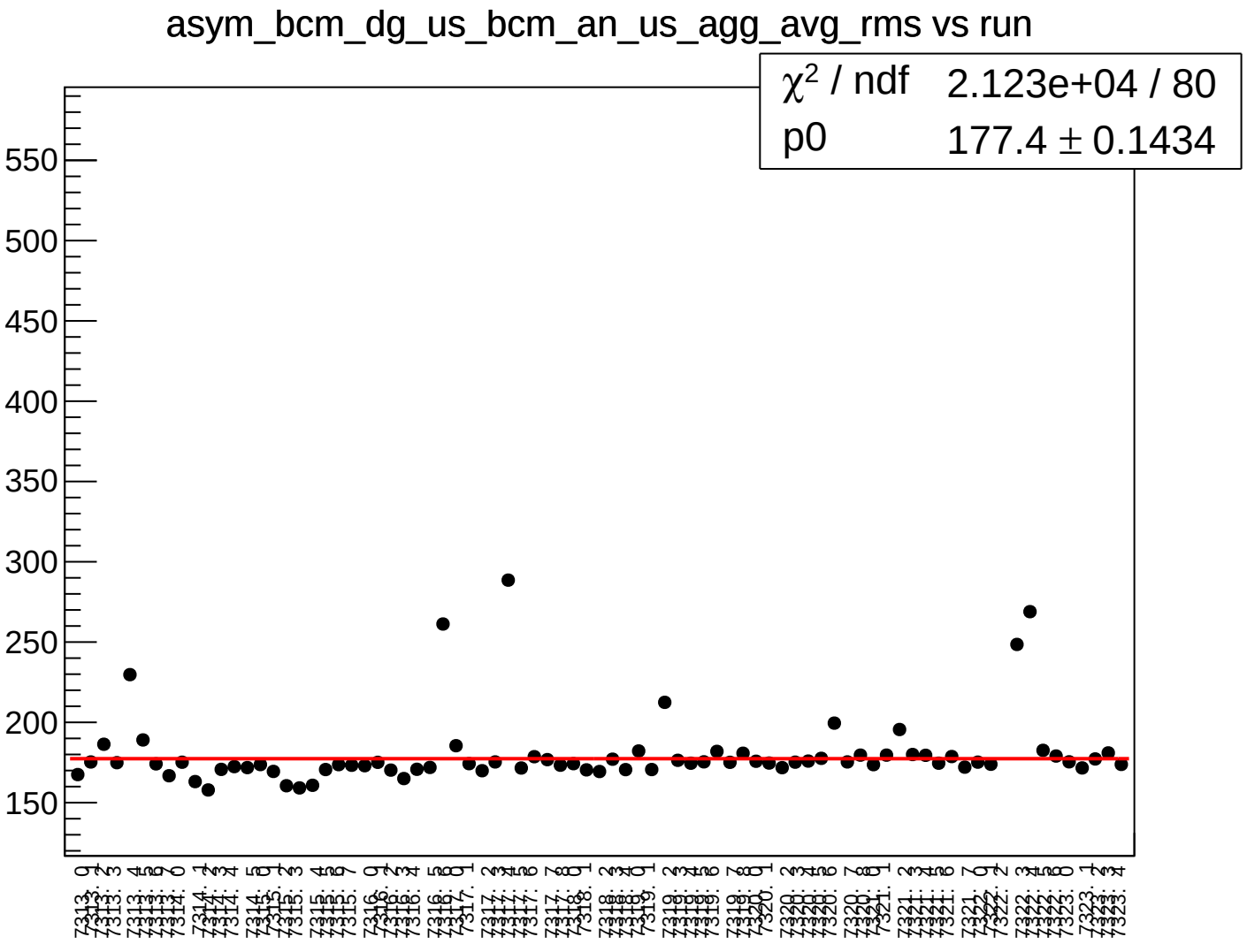

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.12 / 80
p0 19.34 ± 22.62
pull
Entries 81
Mean 209.5
Std Dev 157.5

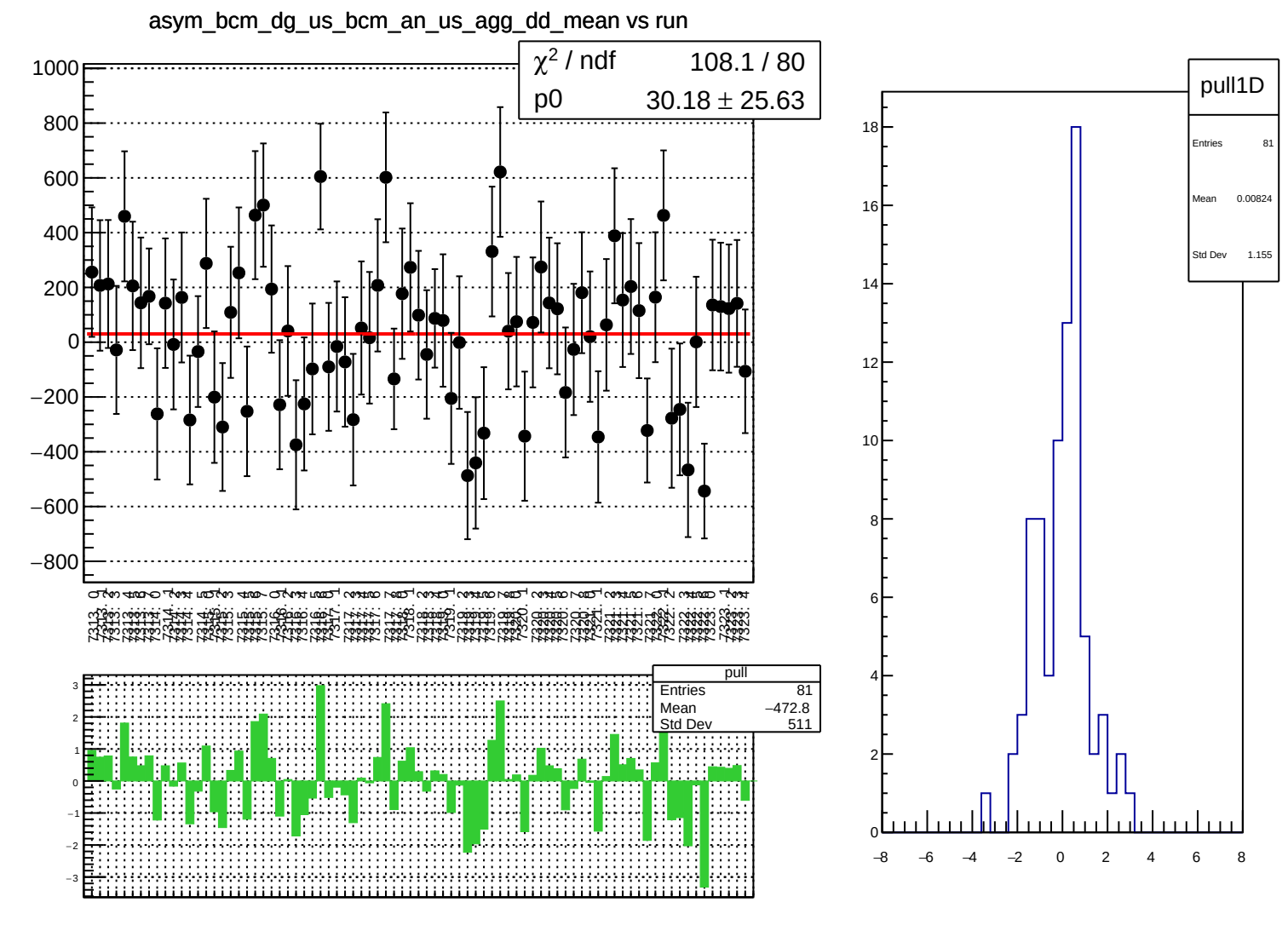

pull1D
Entries 81
Mean −0.005381
Std Dev 0.9103

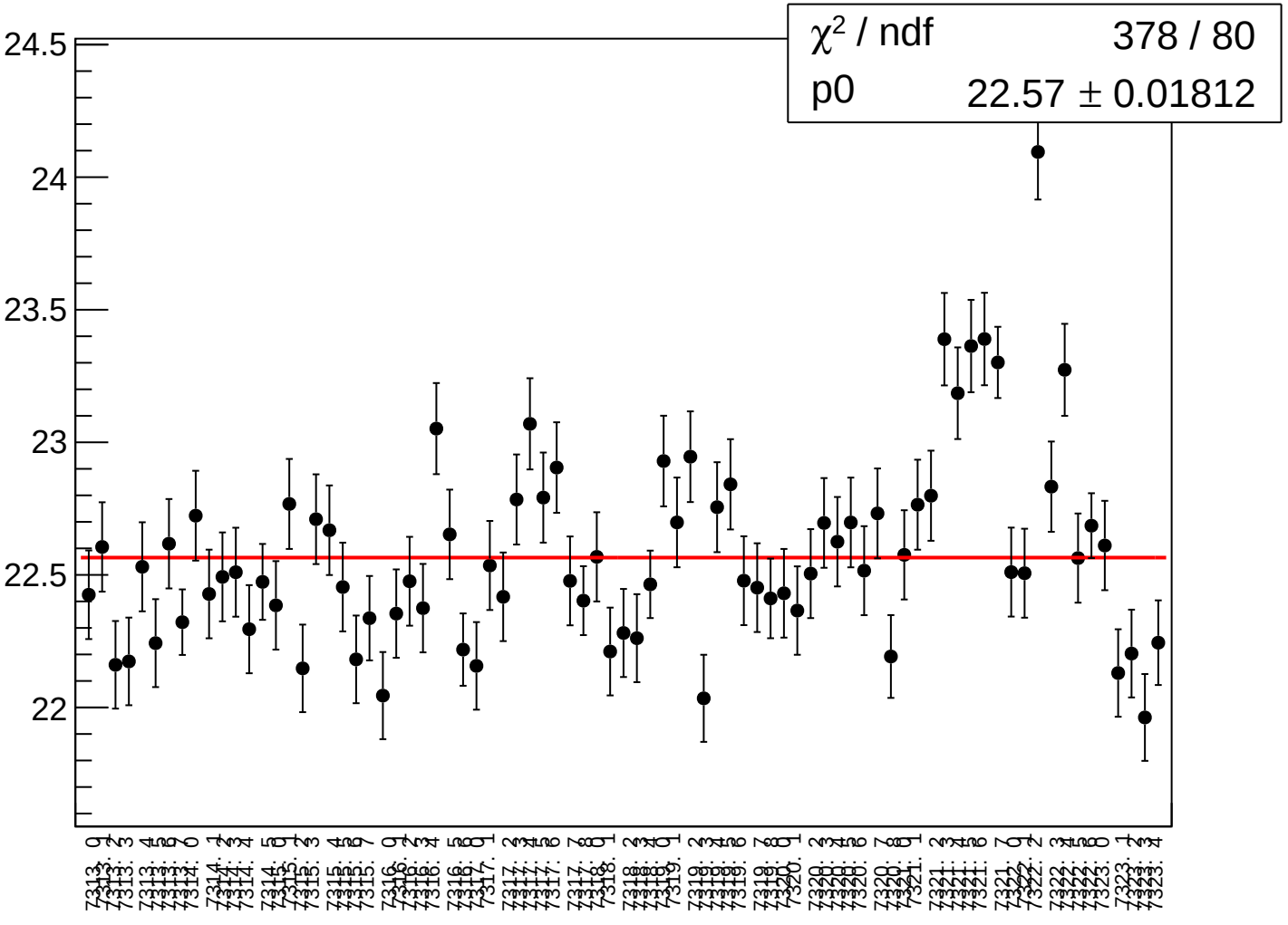

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5310 / 80
p0 19.88 ± 0.01599
22
21
20
19
18
17
16

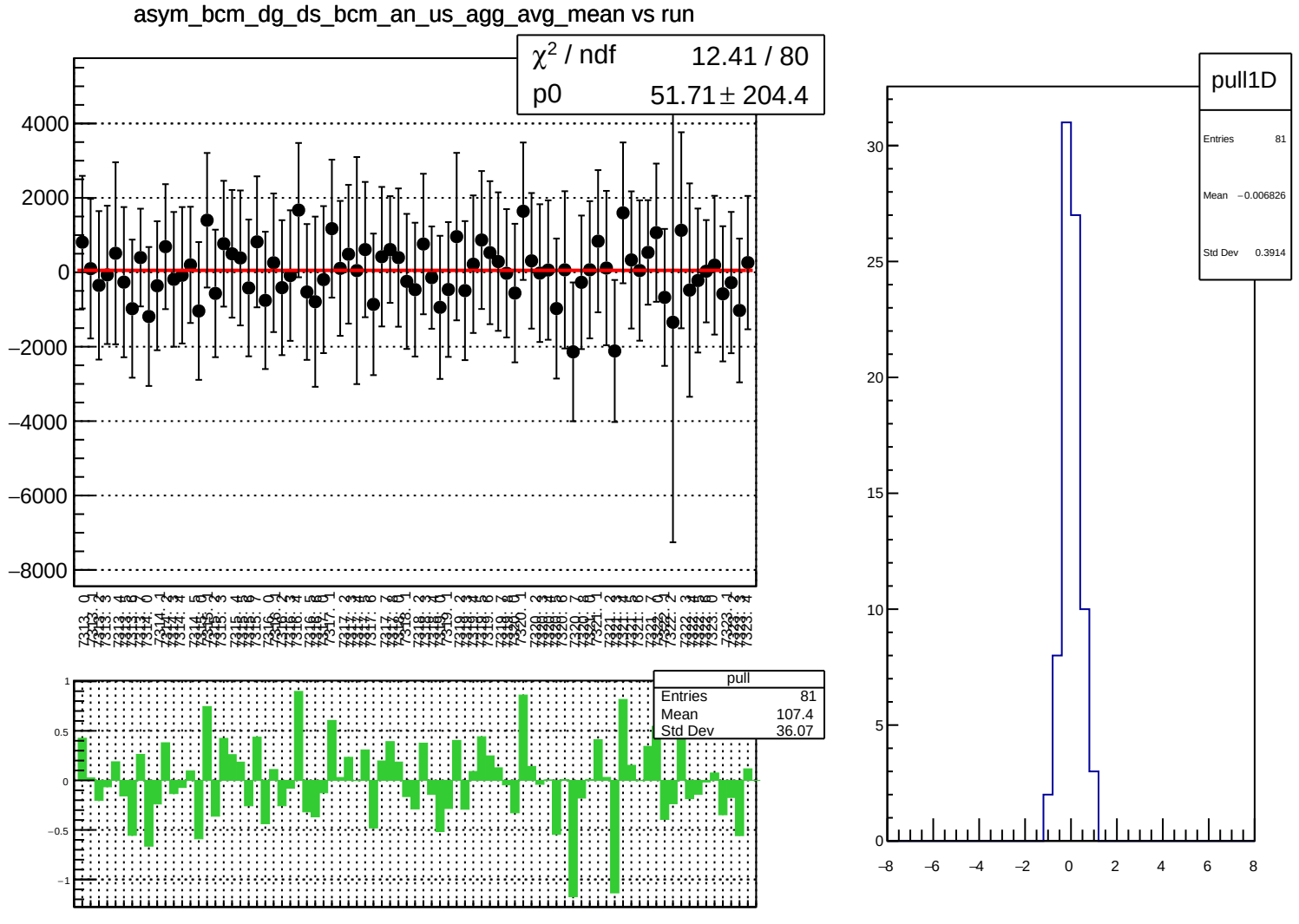

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.11 / 80
p0 45.8 ± 202.8
pull
Entries 81
Mean 183.1
Std Dev 125.8

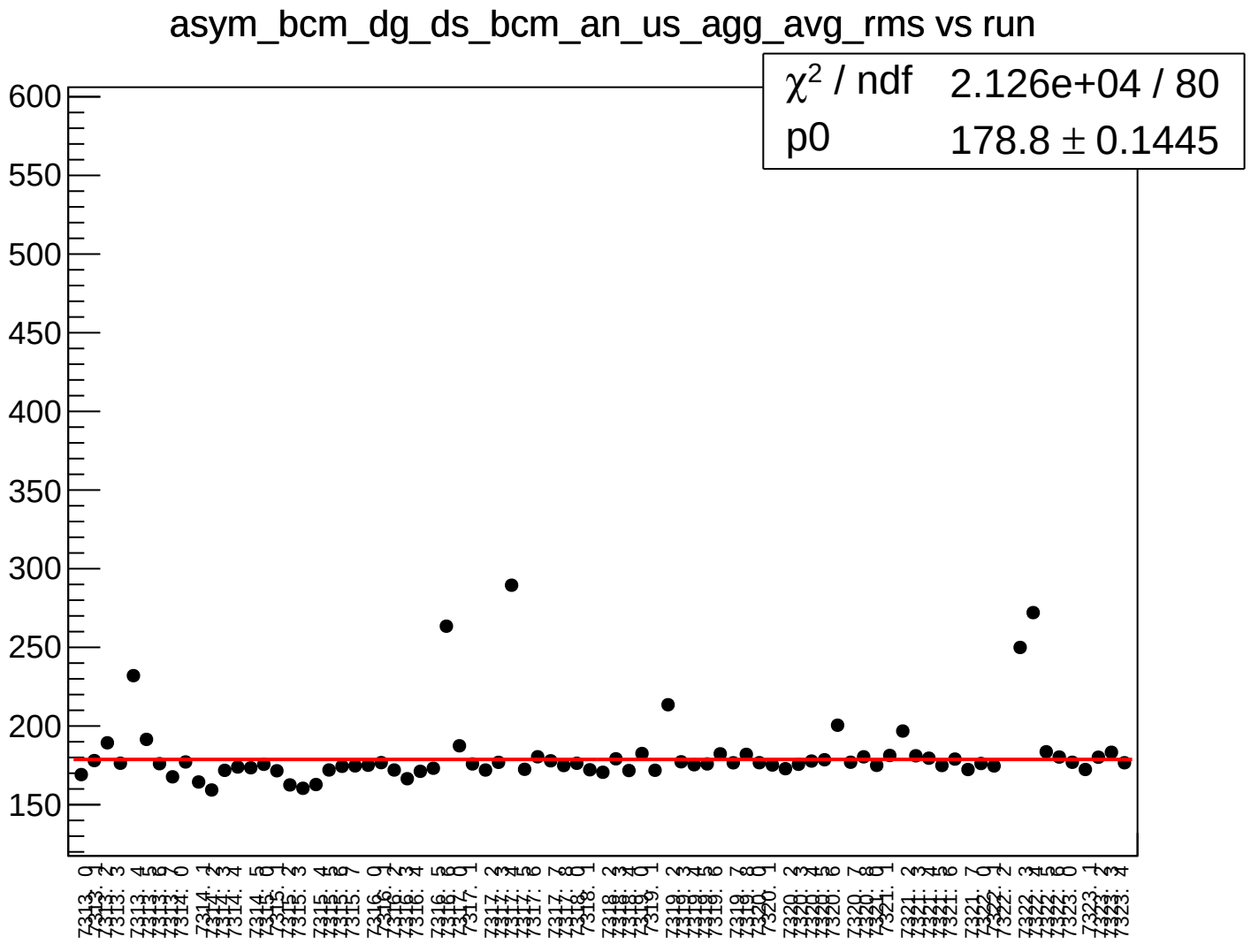

pull1D
Entries 81
Mean −0.003267
Std Dev 0.3867

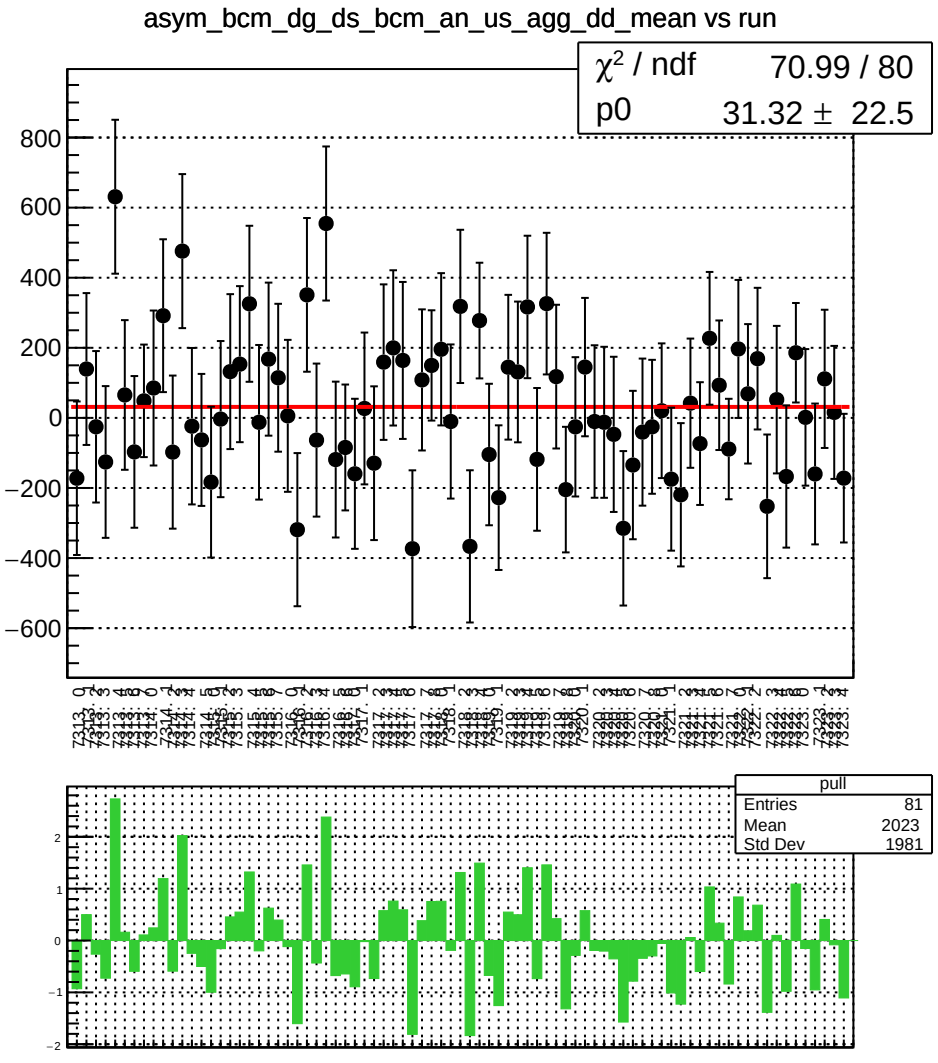

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.123e+04 / 80
p0 177.4 ± 0.1434
550
500
450
400
350
300
250
200
150

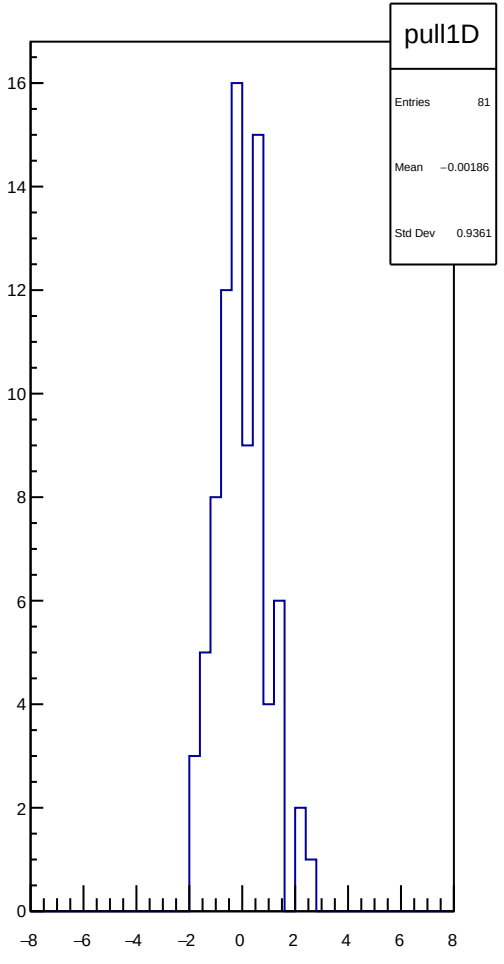

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 108.1 / 80
p0 30.18 ± 25.63
pull
Entries 81
Mean −472.8
Std Dev 511
pull1D
Entries 81
Mean 0.00824
Std Dev 1.155

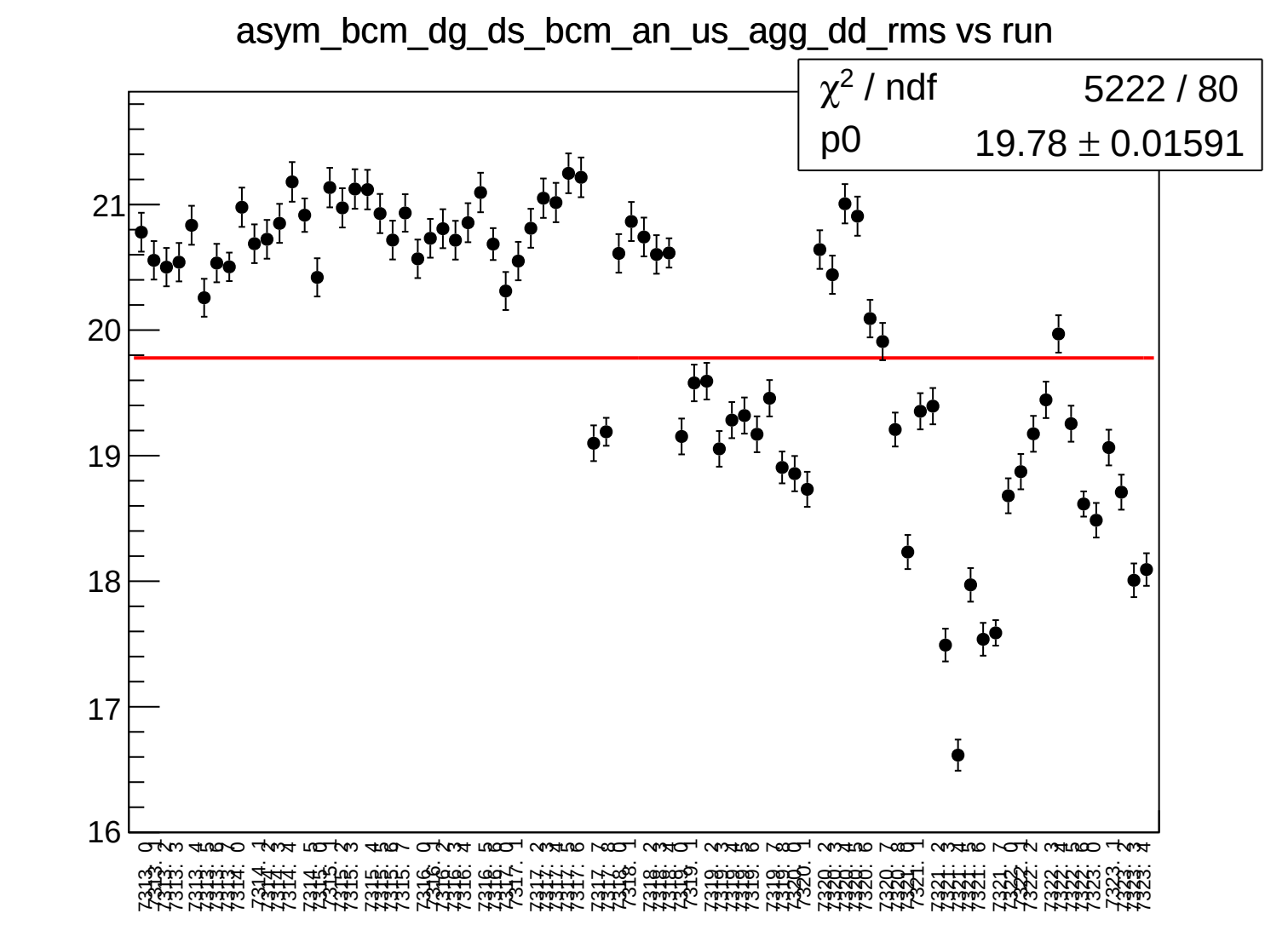

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 378 / 80
p0 22.57 ± 0.01812
24.5
24
23.5
23
22.5
22

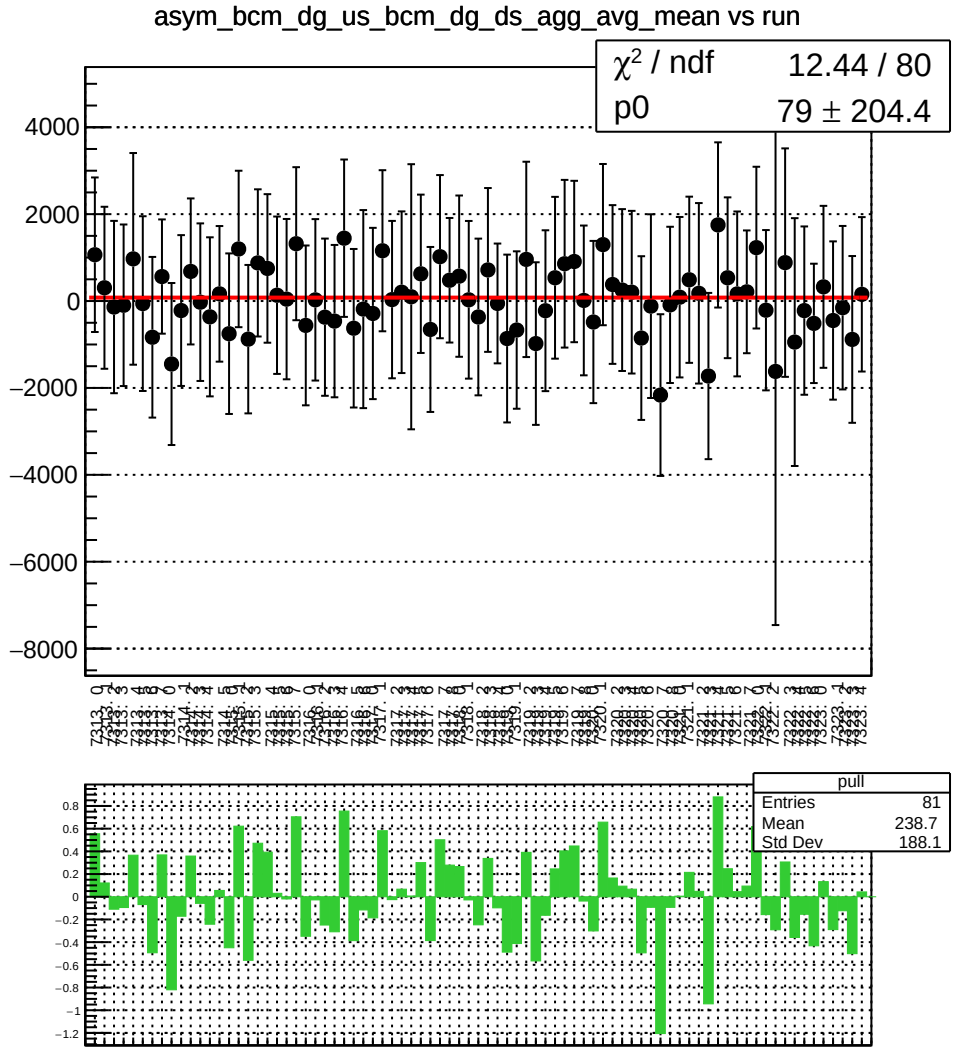

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.41 / 80
p0 51.71 ± 204.4
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 107.4
Std Dev 36.07
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.006826
Std Dev 0.3914
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

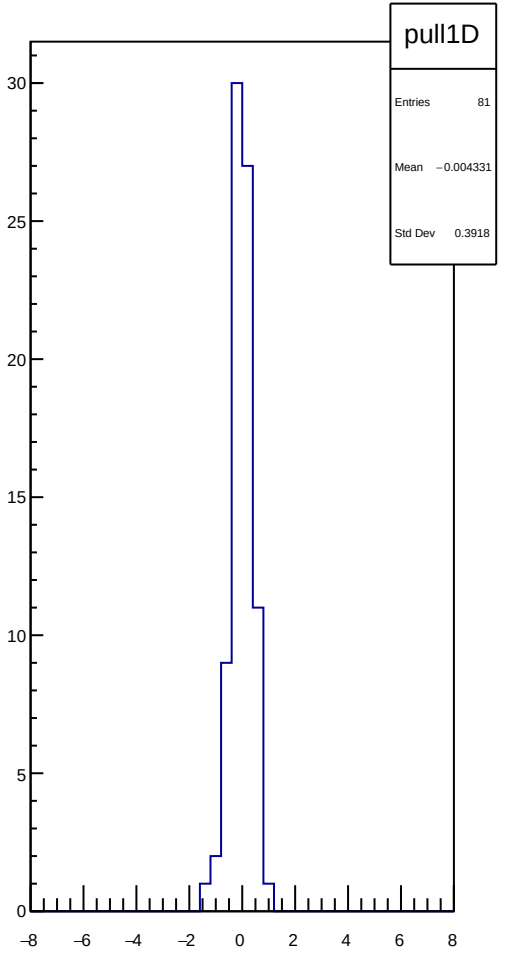

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 2.126e+04 / 80
p0 178.8 ± 0.1445
600
550
500
450
400
350
300
250
200
150

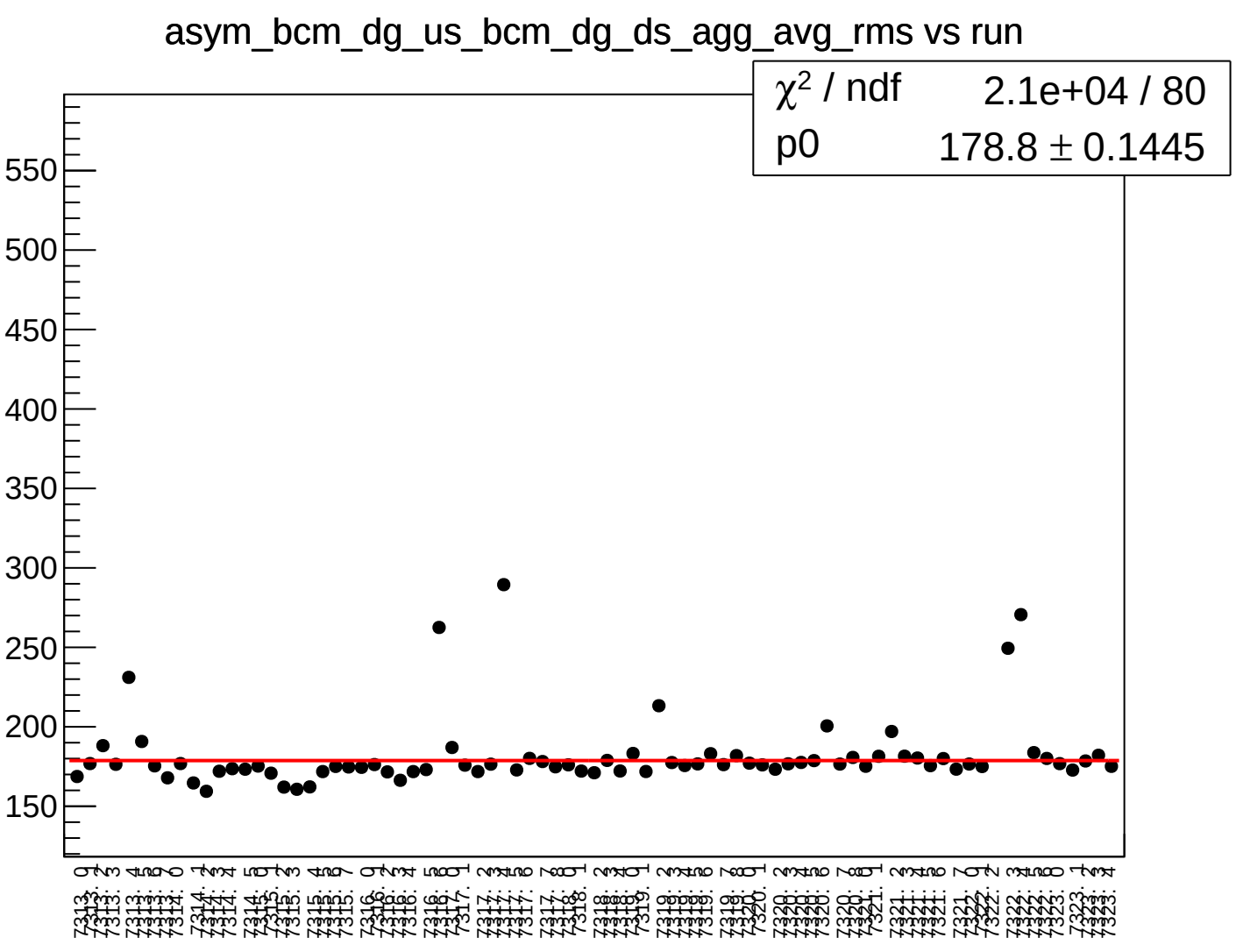

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 70.99 / 80
p0 31.32 ± 22.5
pull
Entries 81
Mean 2023
Std Dev 1981

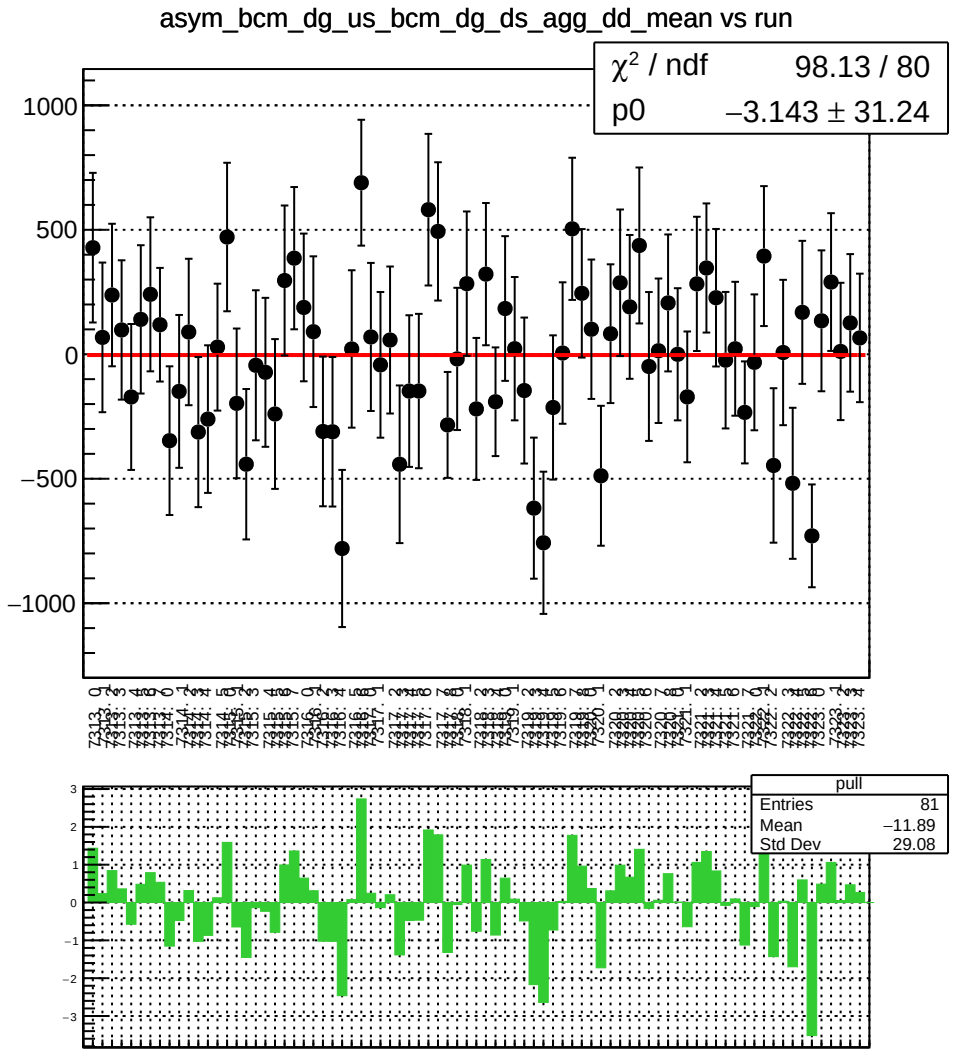

pull1D
Entries 81
Mean −0.00186
Std Dev 0.9361

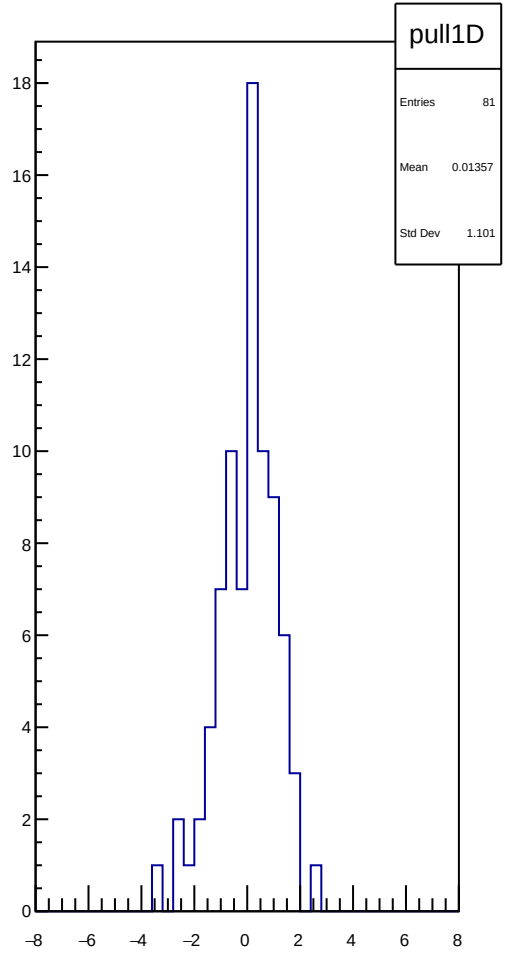

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5222 / 80
p0 19.78 ± 0.01591
21
20
19
18
17
16

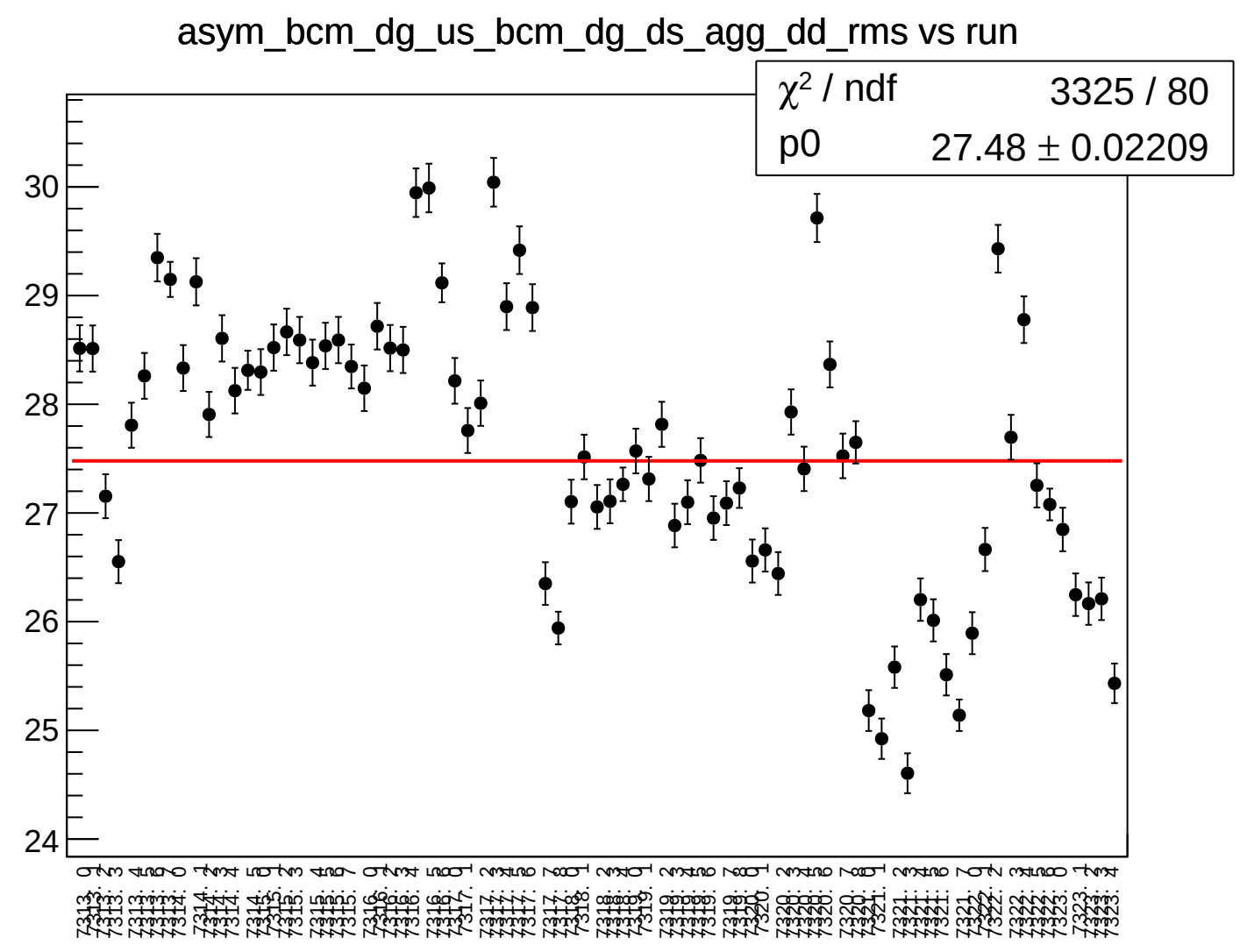

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.44 / 80
p0 79 ± 204.4
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 238.7
Std Dev 188.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

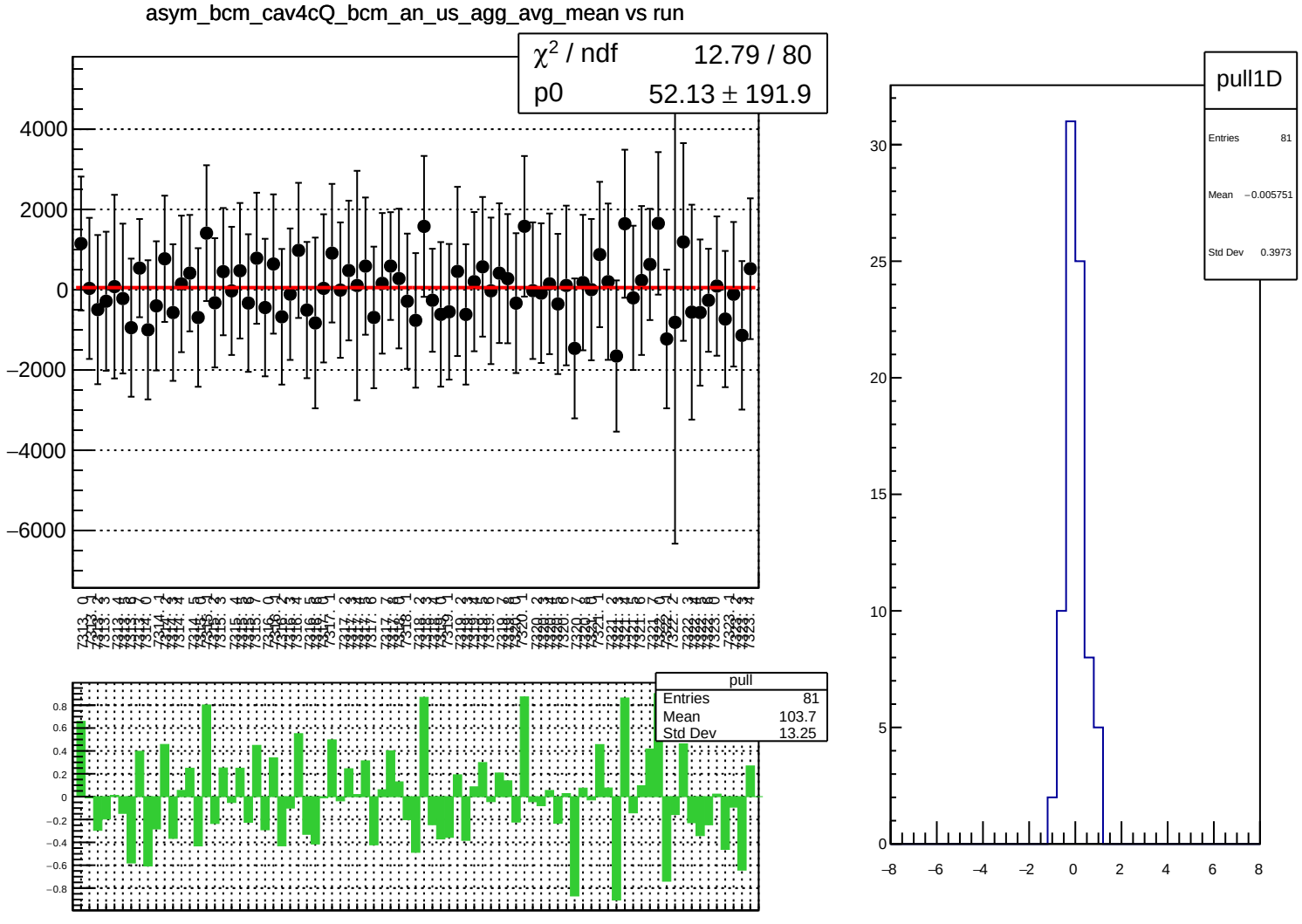

pull1D
Entries 81
Mean −0.004331
Std Dev 0.3918
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

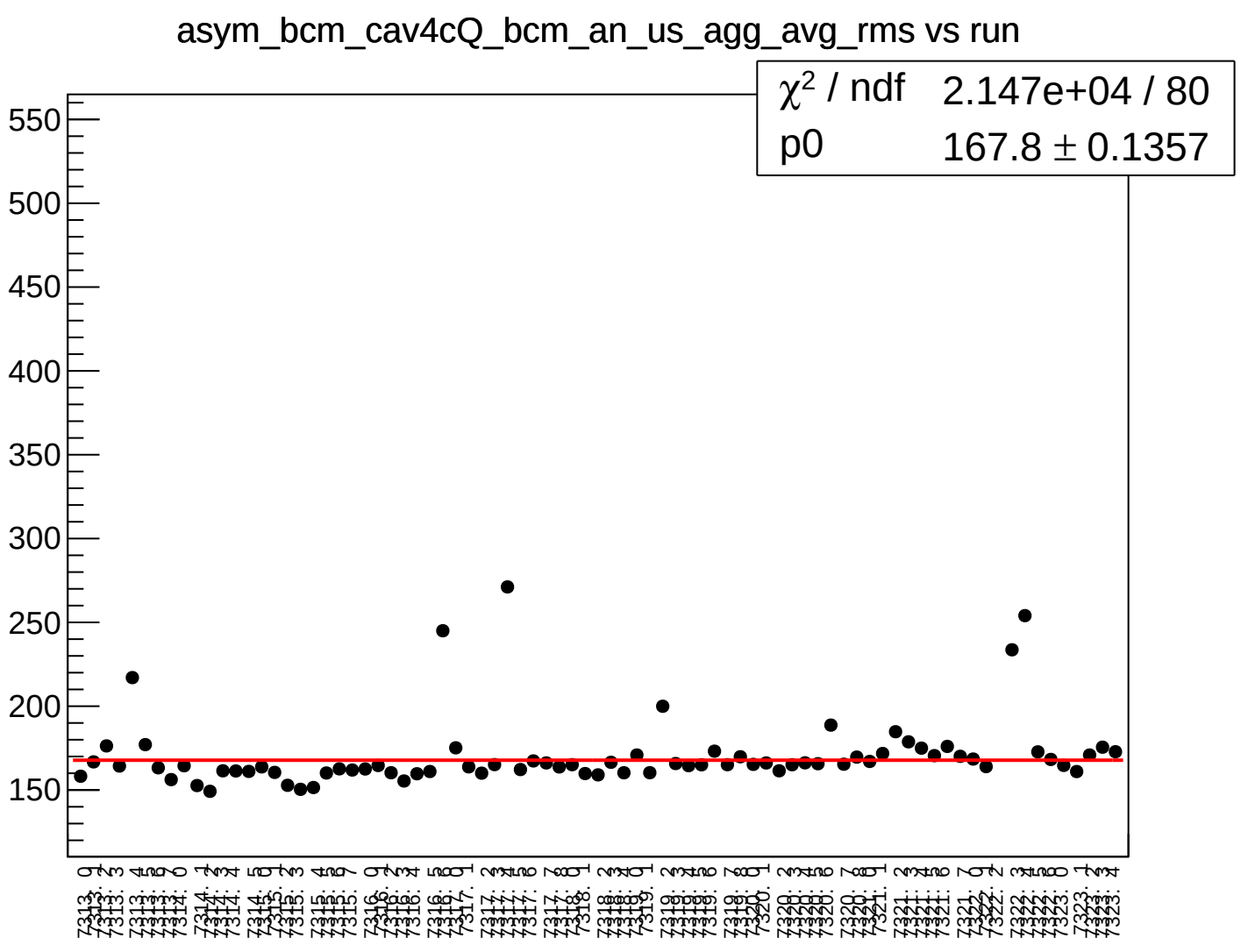

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.1e+04 / 80
p0 178.8 ± 0.1445
550
500
450
400
350
300
250
200
150

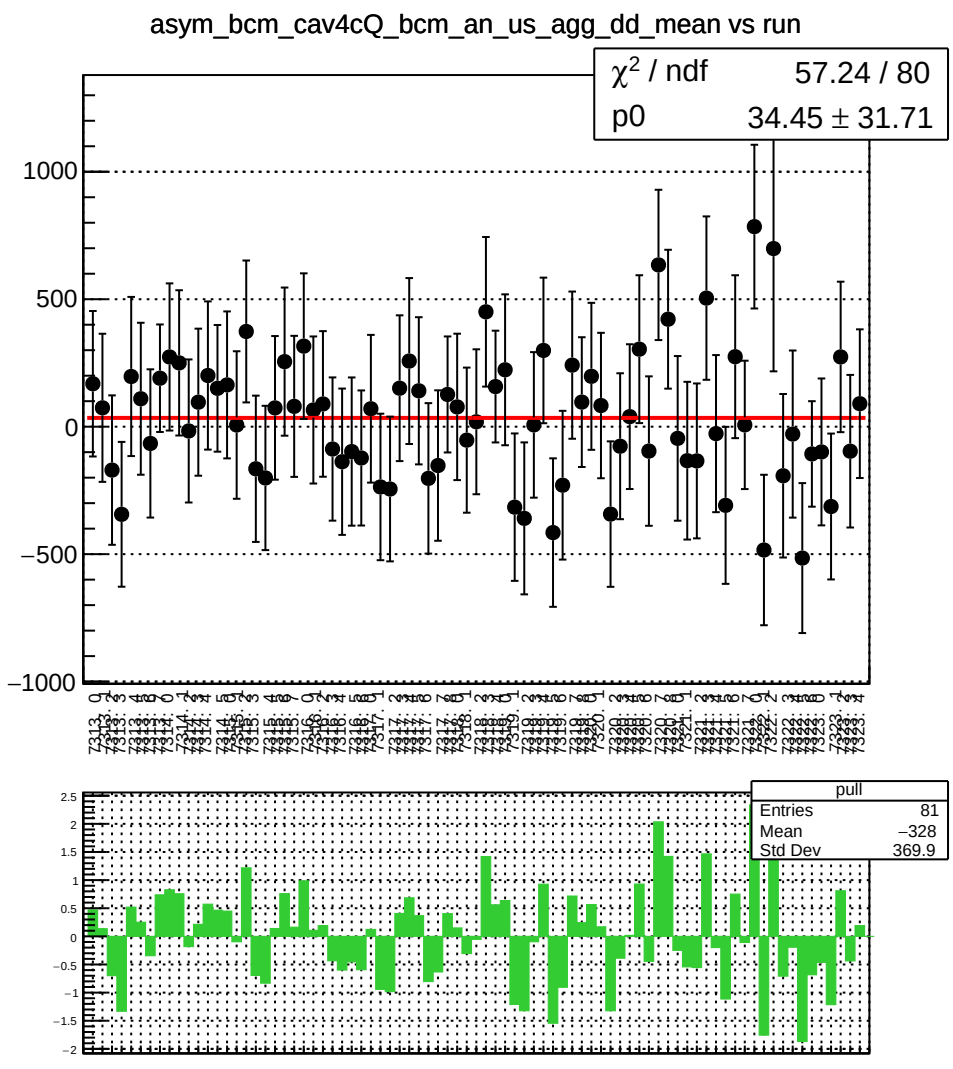

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 98.13 / 80
p0 −3.143 ± 31.24
1000
500
0
−500
−1000
pull
Entries 81
Mean −11.89
Std Dev 29.08
3
2
1
0
−1
−2
−3

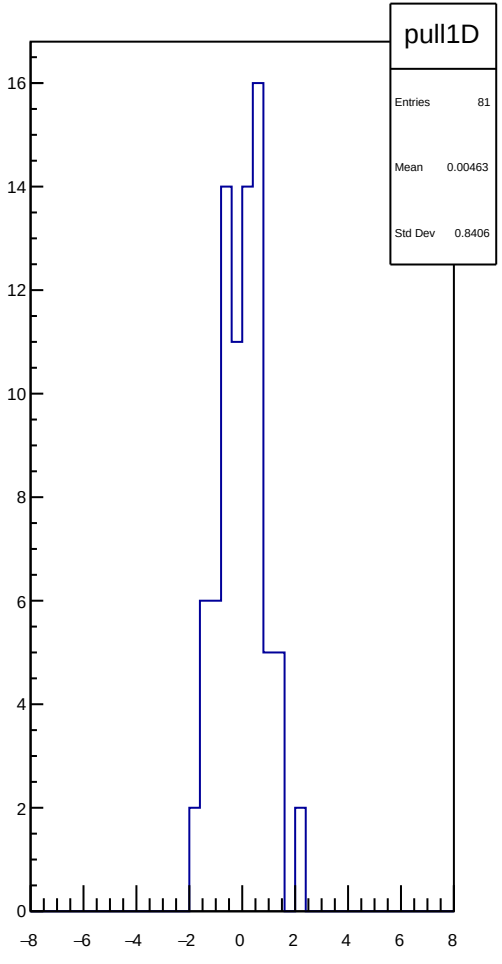

pull1D
Entries 81
Mean 0.01357
Std Dev 1.101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

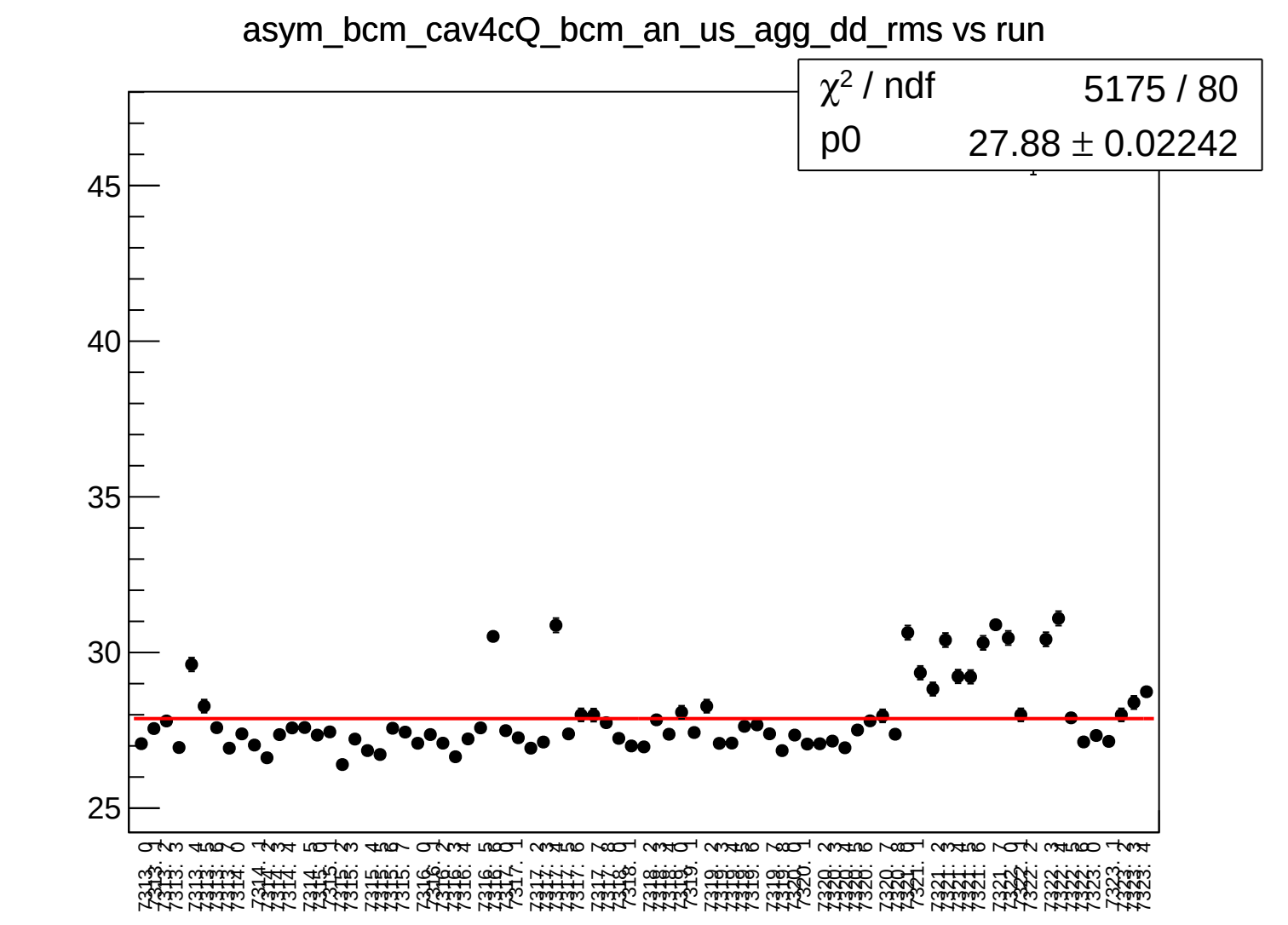

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3325 / 80
p0 27.48 ± 0.02209
30
29
28
27
26
25
24

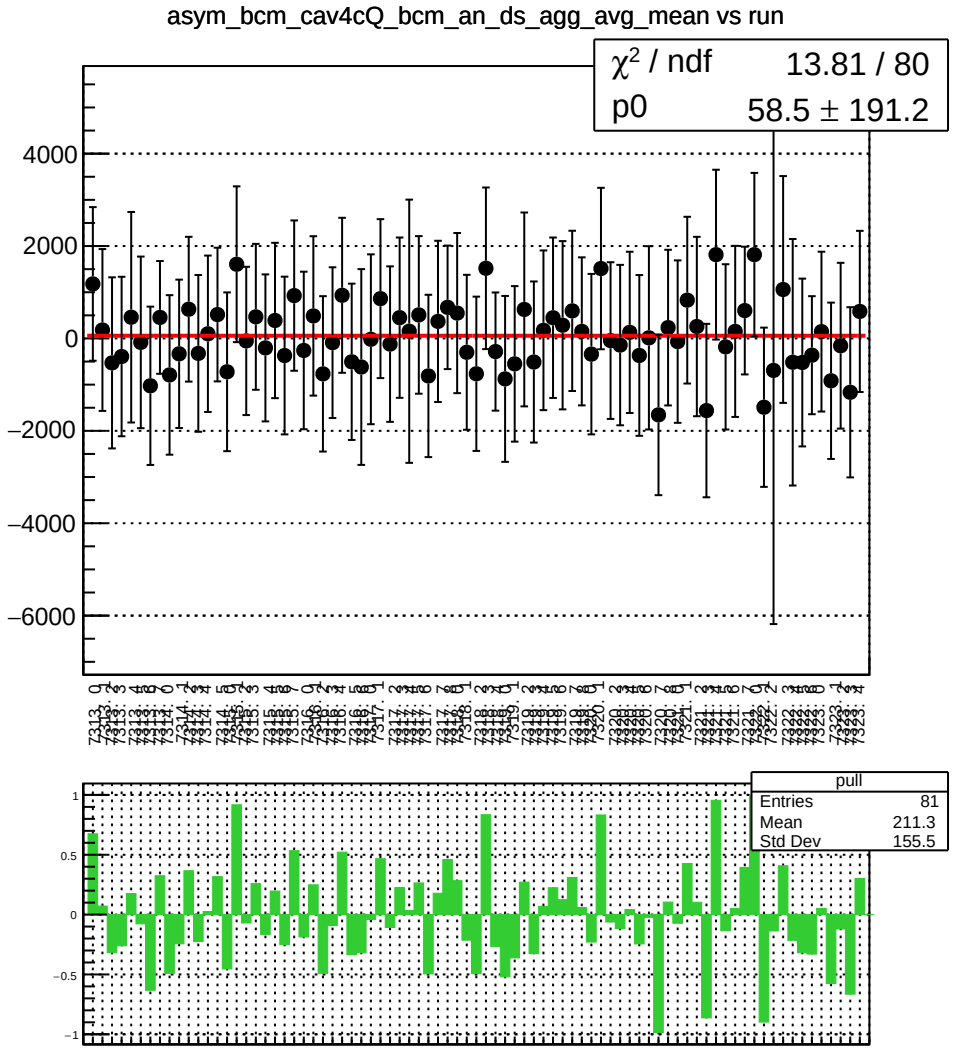

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.79 / 80
p0 52.13 ± 191.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 103.7
Std Dev 13.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 81
Mean −0.005751
Std Dev 0.3973
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

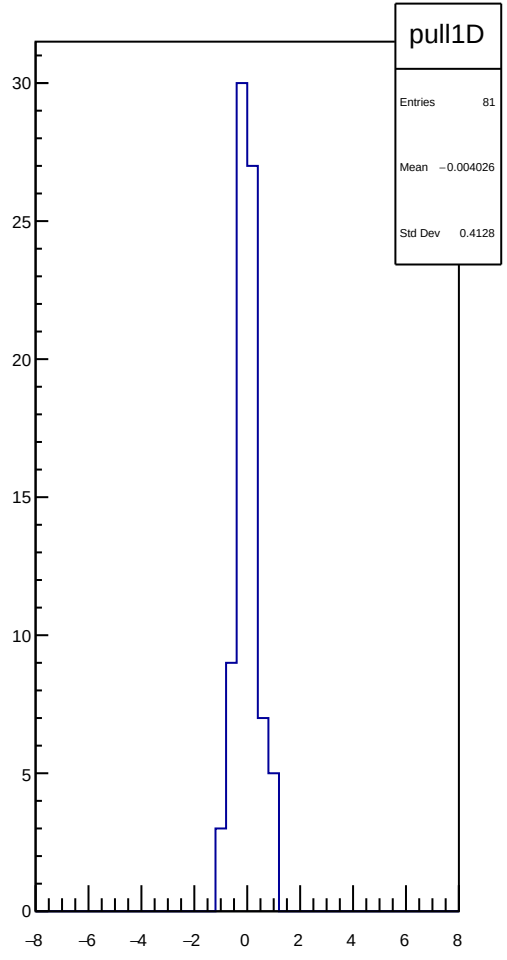

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.147e+04 / 80
p0 167.8 ± 0.1357
550
500
450
400
350
300
250
200
150

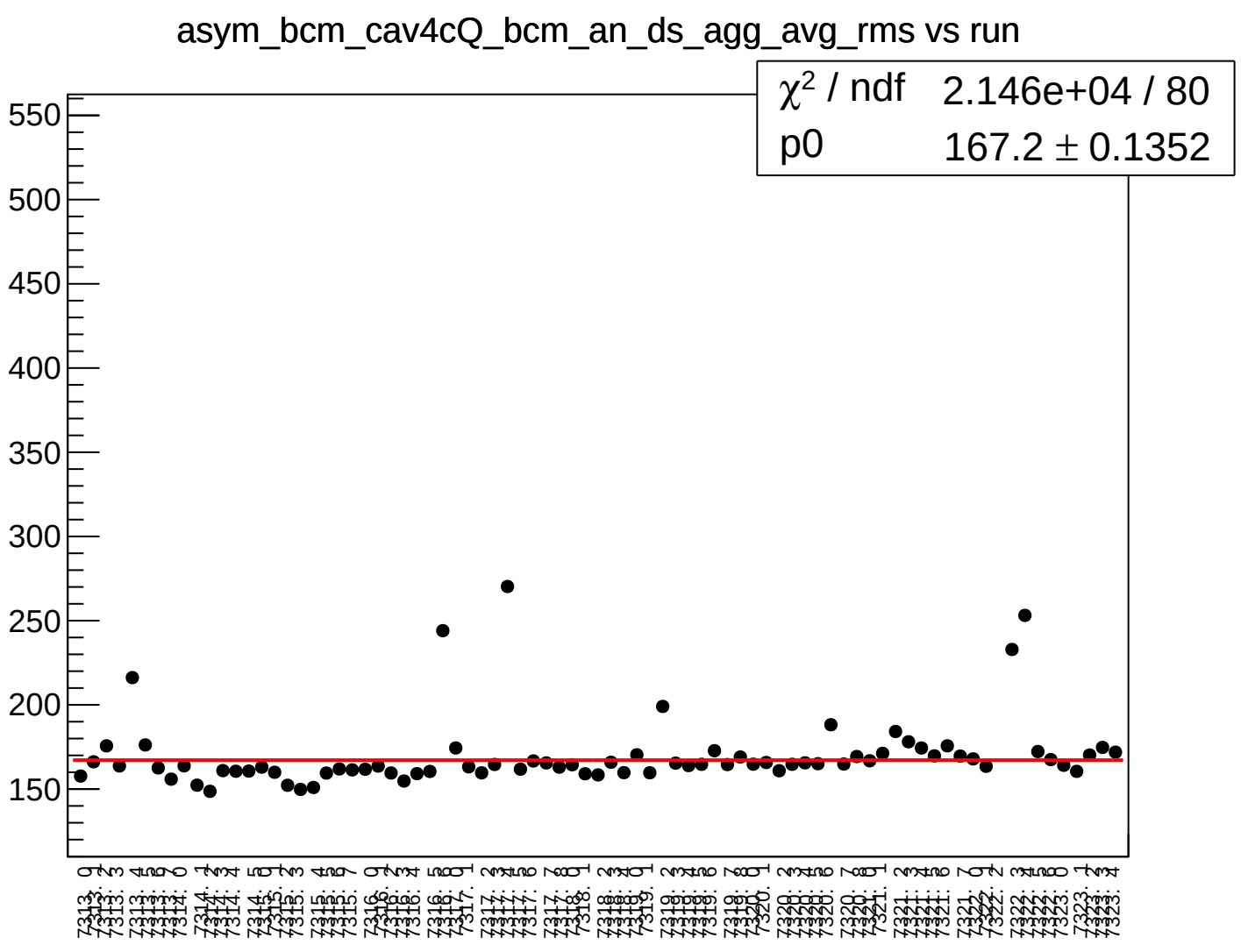

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 57.24 / 80
p0 34.45 ± 31.71
pull
Entries 81
Mean −328
Std Dev 369.9

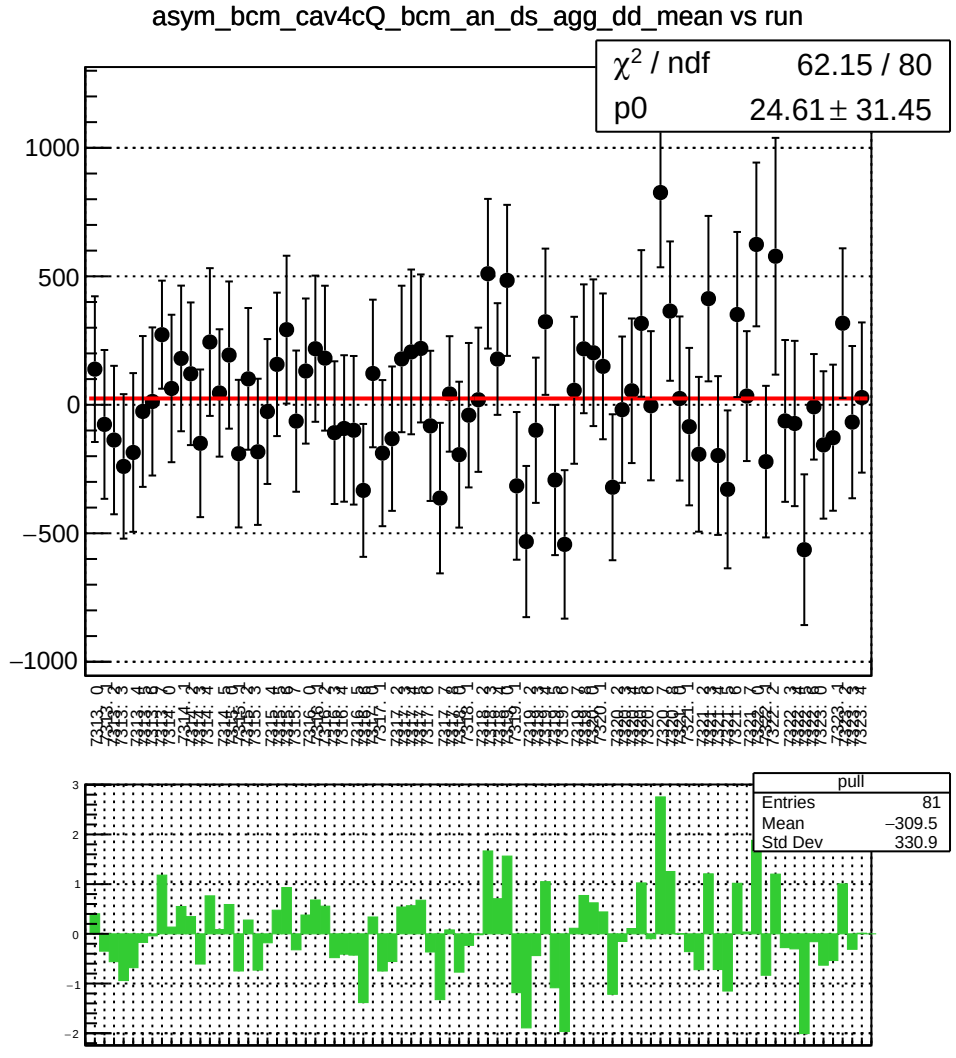

pull1D
Entries 81
Mean 0.00463
Std Dev 0.8406

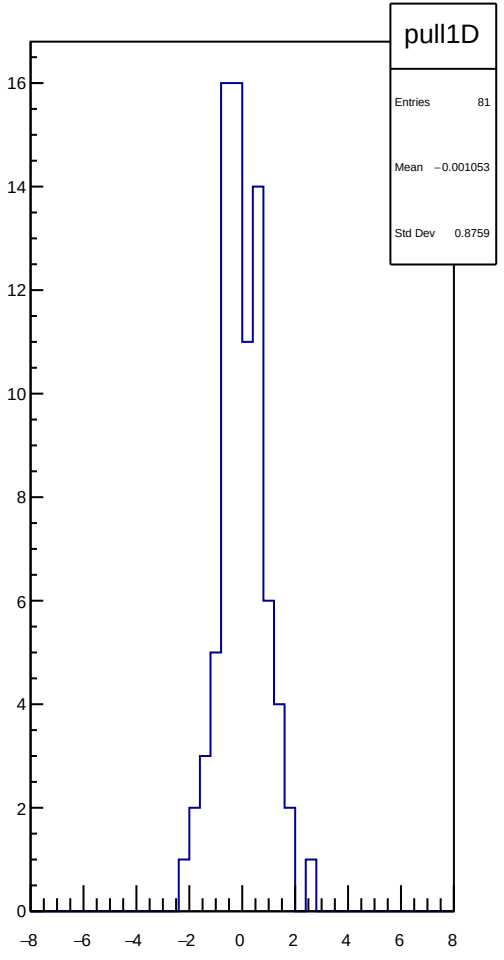

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5175 / 80
p0 27.88 ± 0.02242
45
40
35
30
25

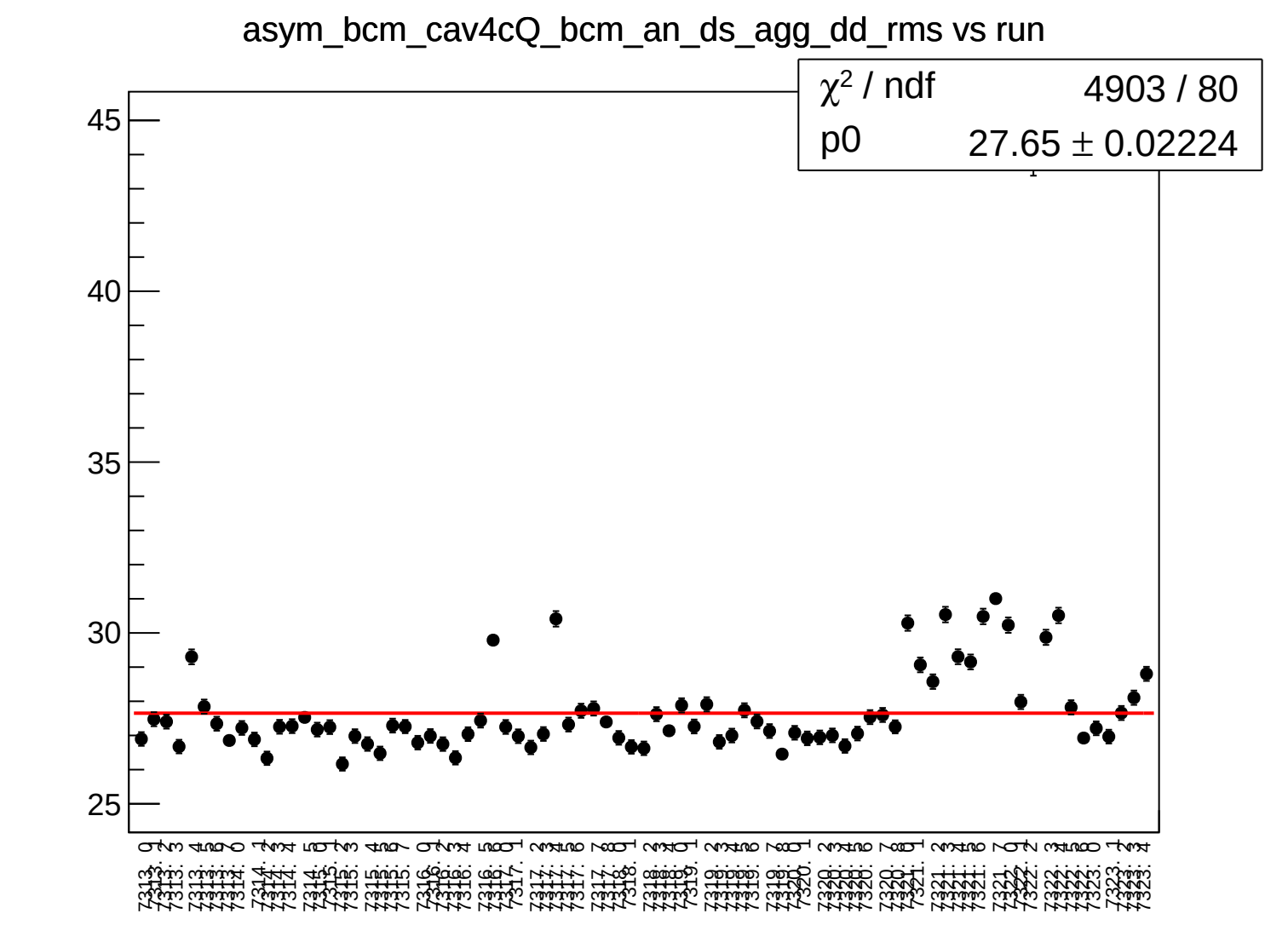

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.81 / 80
p0 58.5 ± 191.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 211.3
Std Dev 155.5
1
0.5
0
−0.5
−1

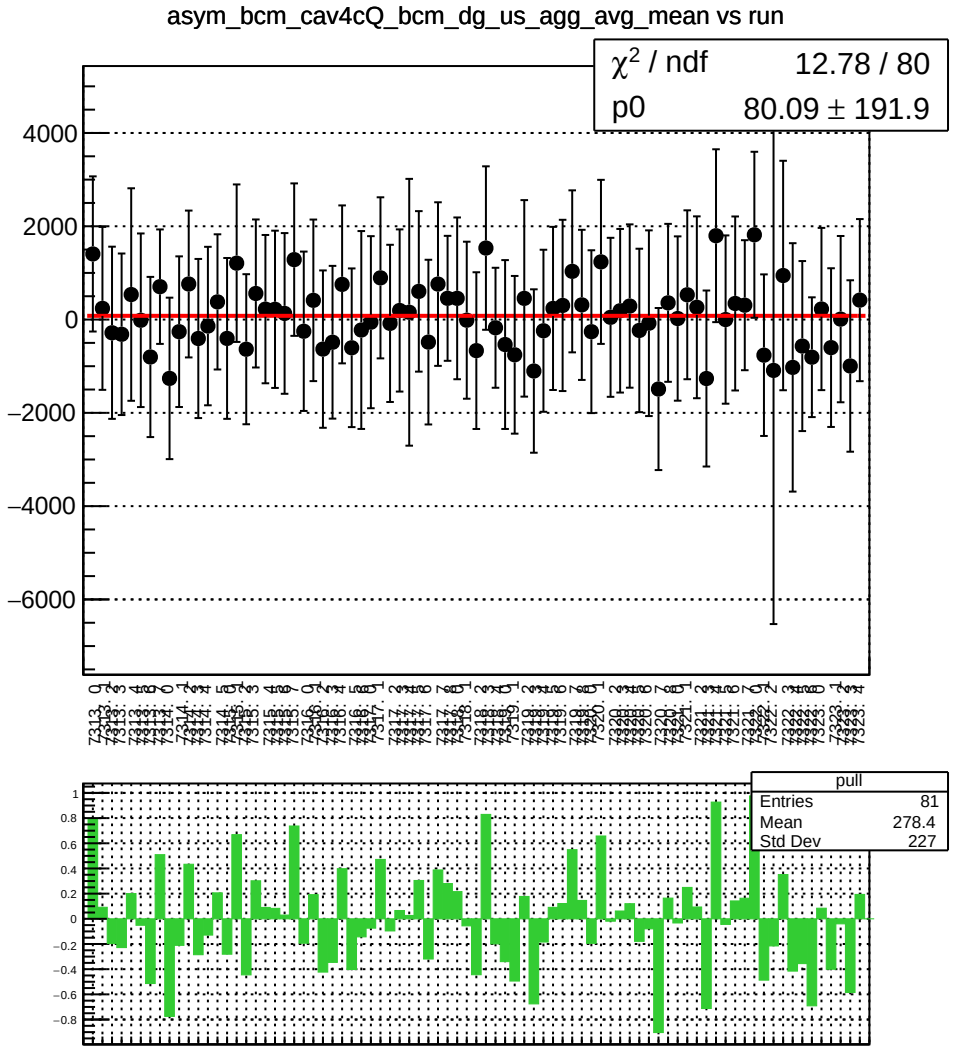

pull1D
Entries 81
Mean −0.004026
Std Dev 0.4128
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

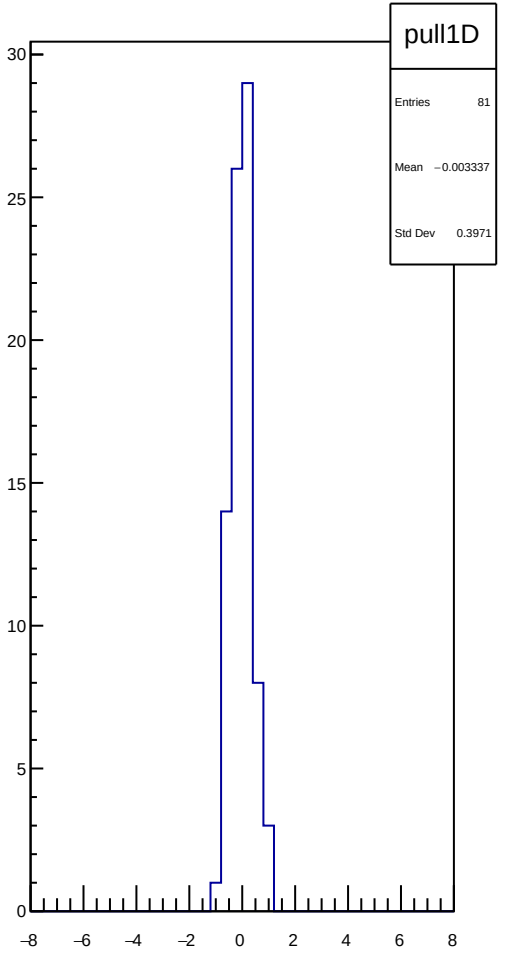

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 2.146e+04 / 80
p0 167.2 ± 0.1352
550
500
450
400
350
300
250
200
150

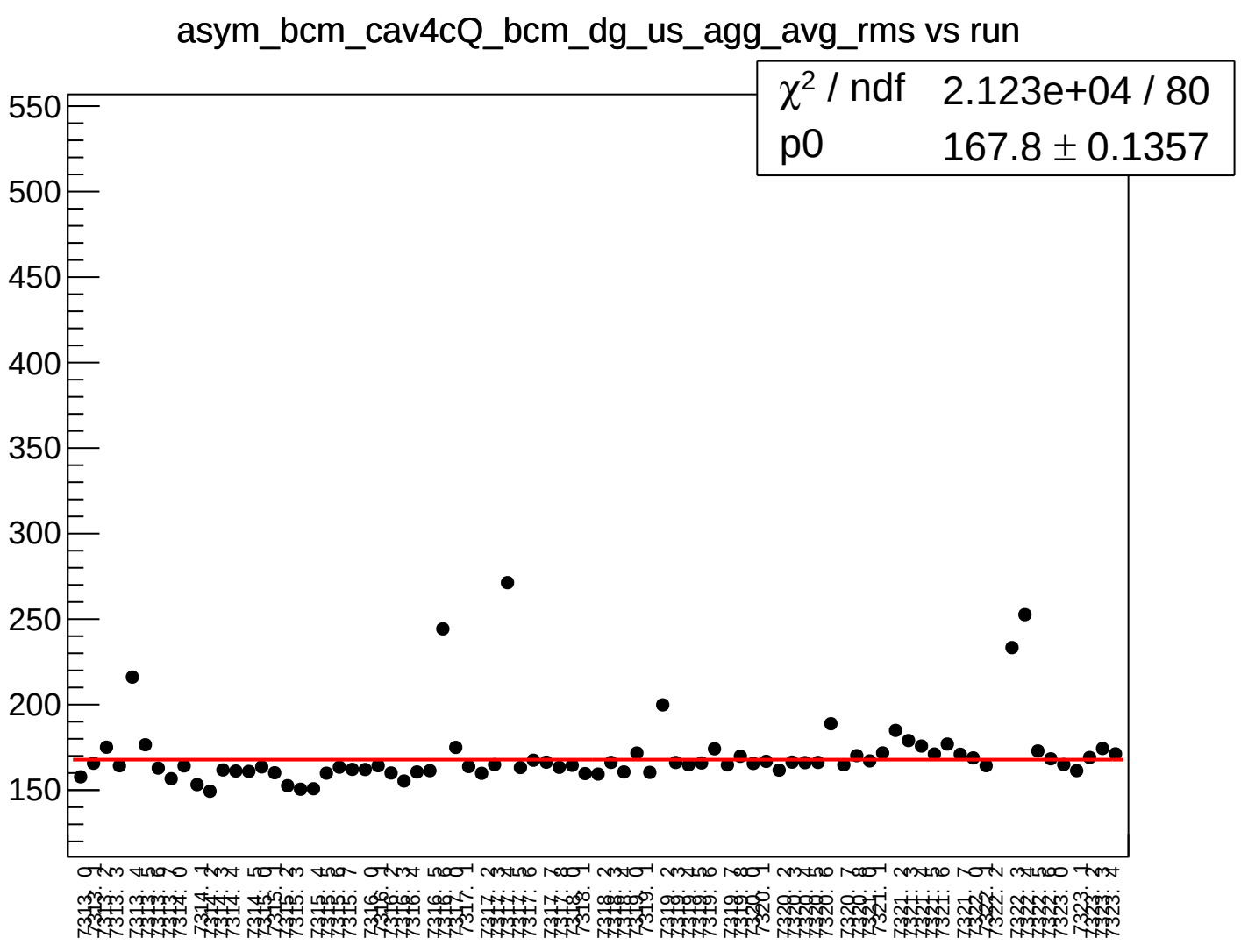

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 62.15 / 80
p0 24.61 ± 31.45
1000
500
0
−500
−1000
pull
Entries 81
Mean −309.5
Std Dev 330.9
3
2
1
0
−1
−2

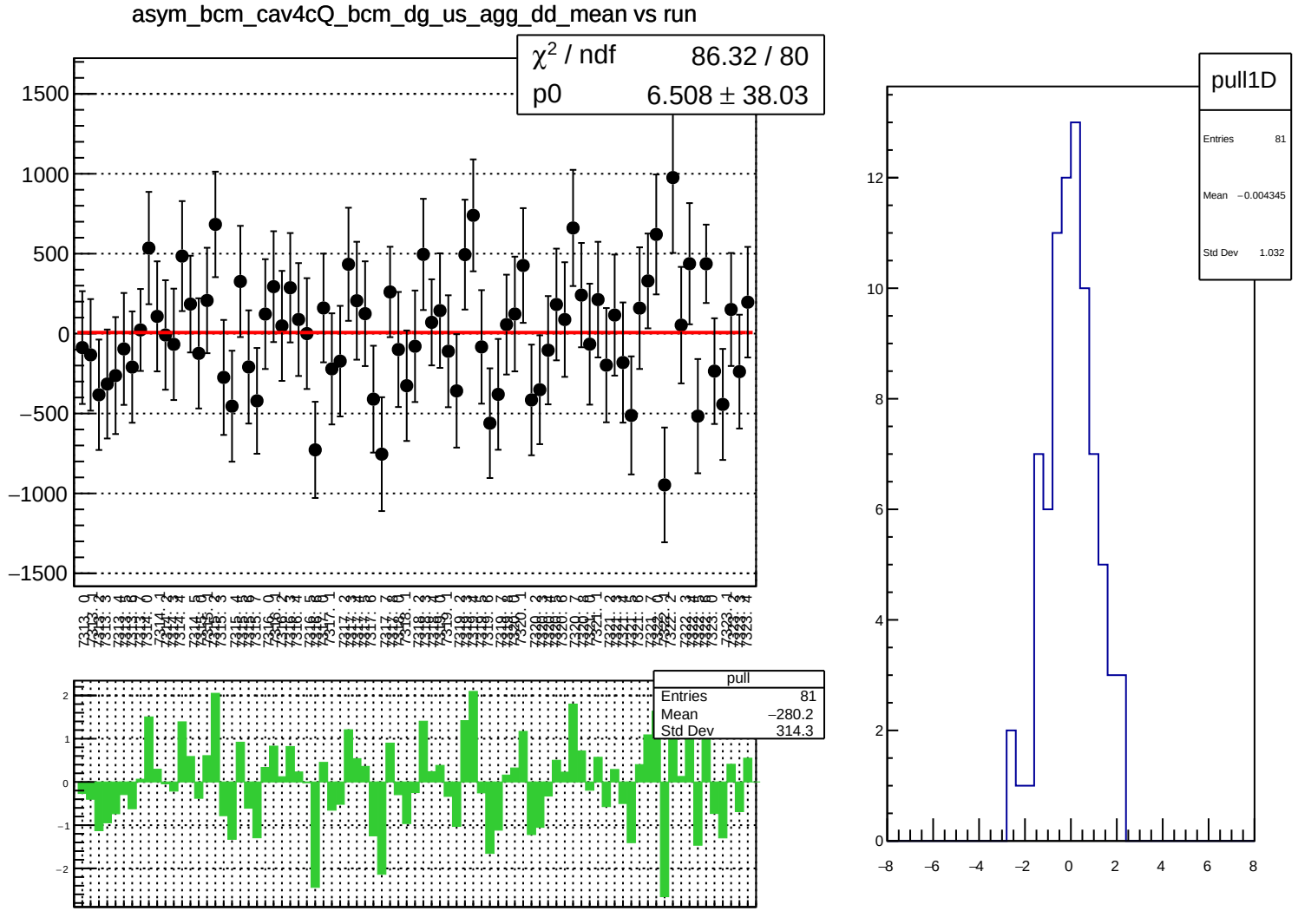

pull1D
Entries 81
Mean −0.001053
Std Dev 0.8759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

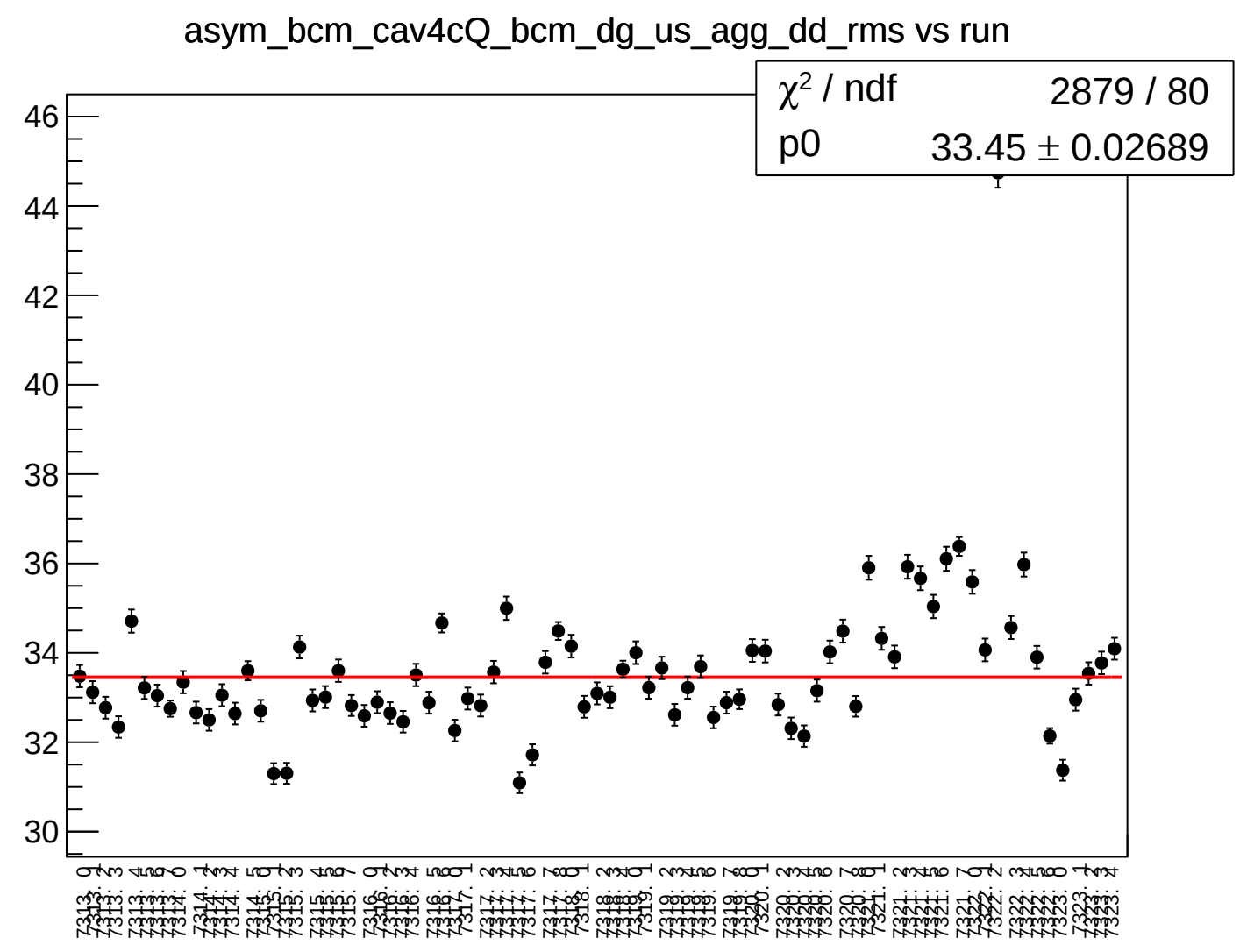

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4903 / 80
p0 27.65 ± 0.02224
45
40
35
30
25

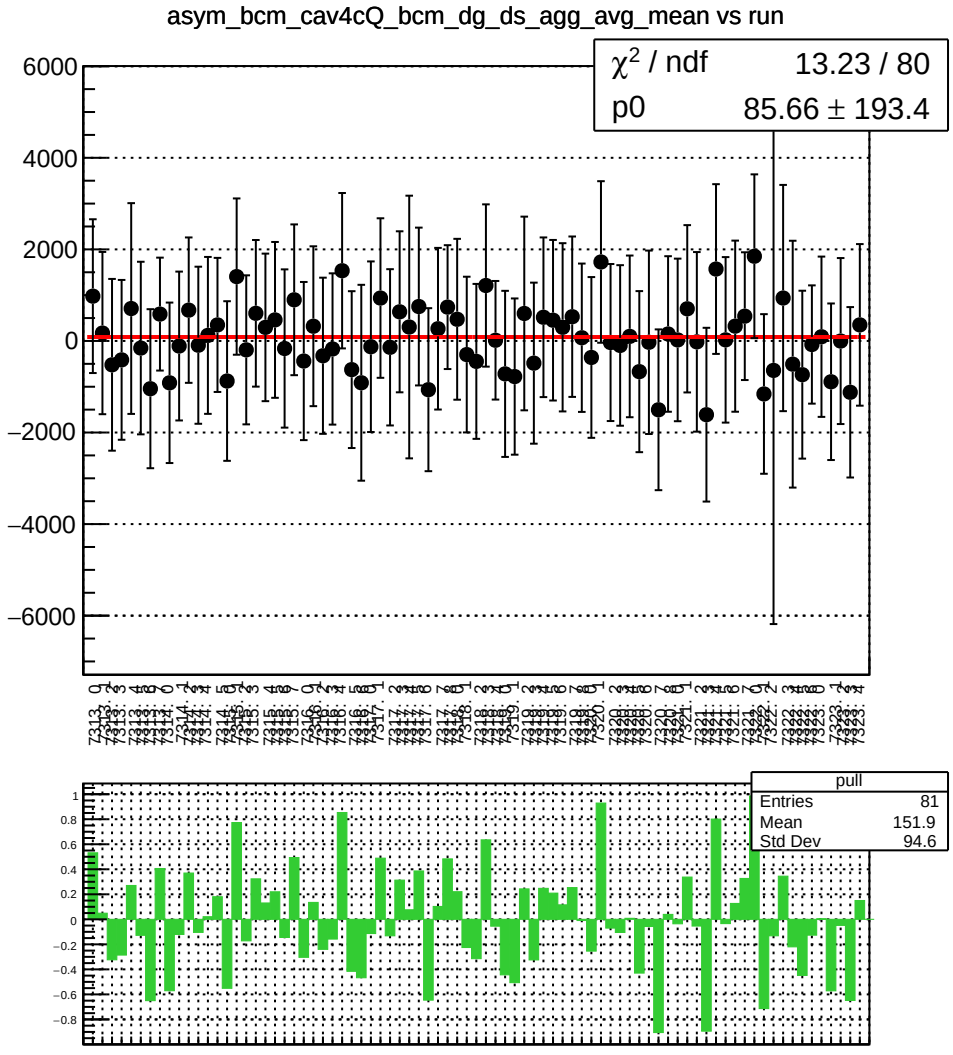

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.78 / 80
p0 80.09 ± 191.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 278.4
Std Dev 227
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

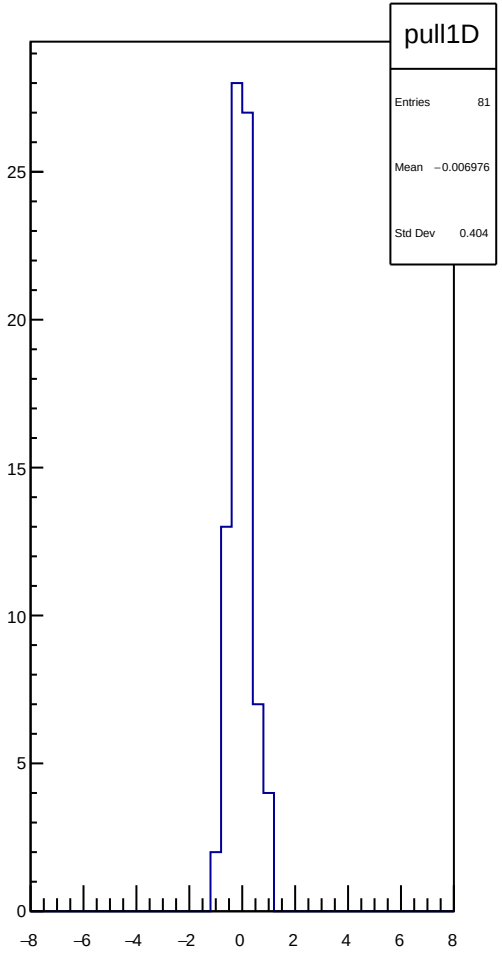

pull1D
Entries 81
Mean −0.003337
Std Dev 0.3971
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

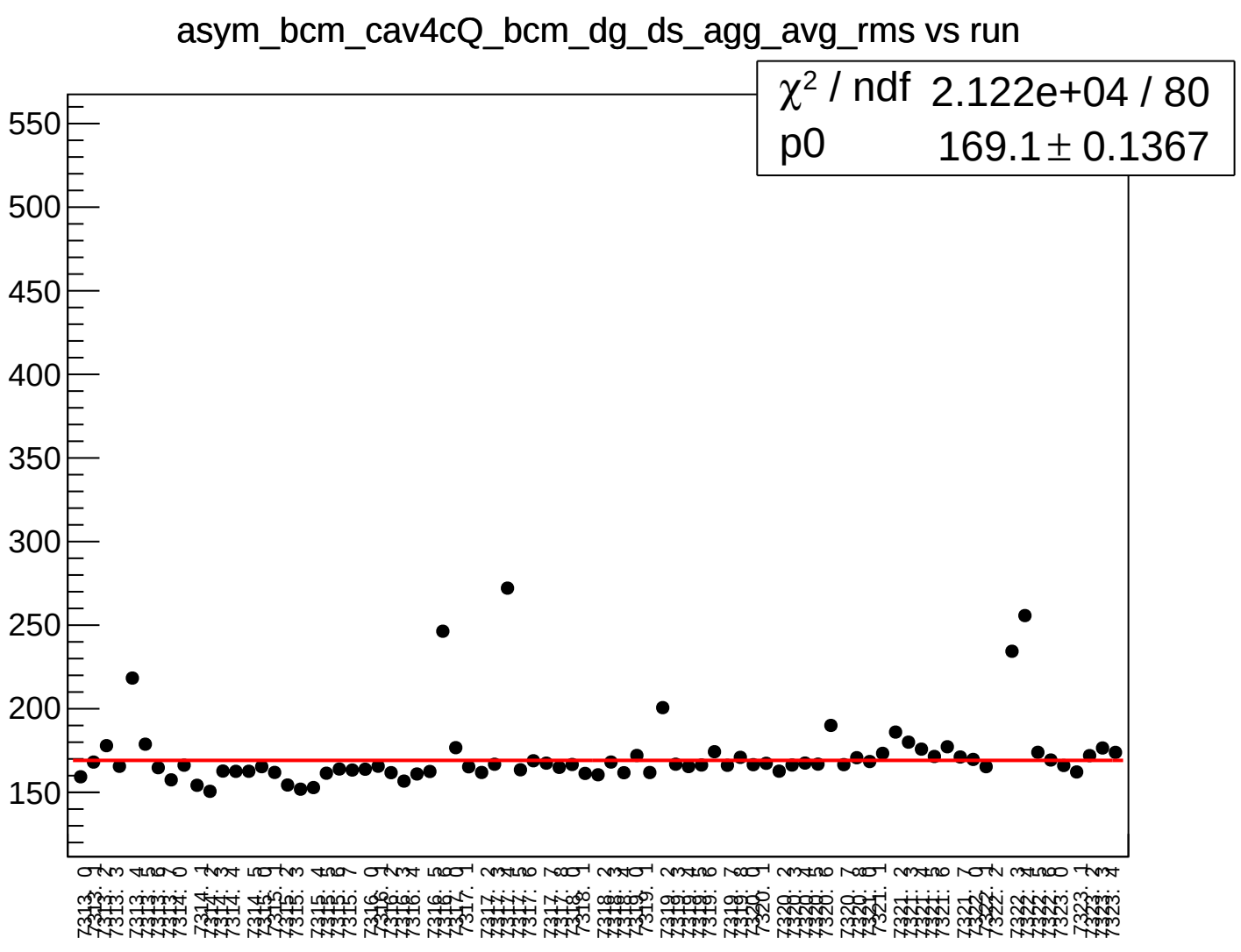

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.123e+04 / 80
p0 167.8 ± 0.1357
550
500
450
400
350
300
250
200
150

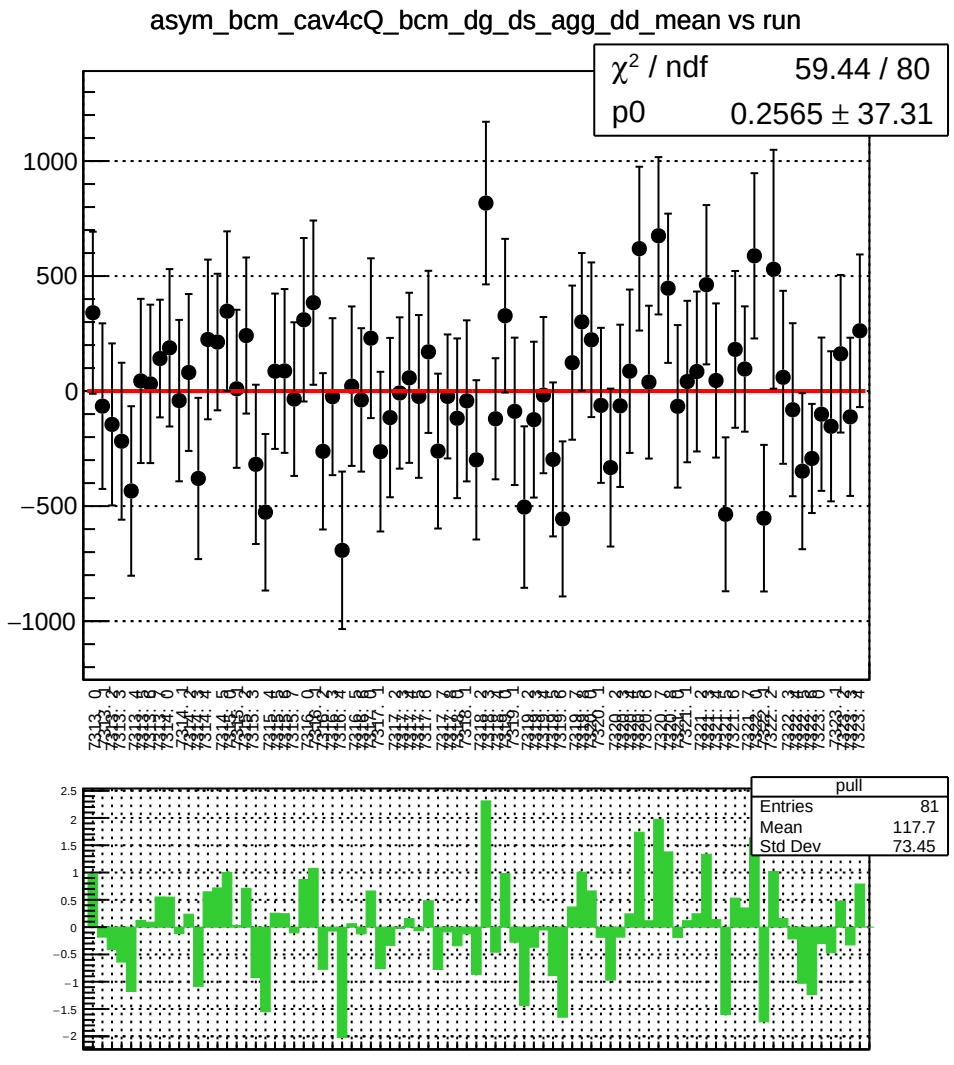

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 86.32 / 80
p0 6.508 ± 38.03
pull
Entries 81
Mean −280.2
Std Dev 314.3
pull1D
Entries 81
Mean −0.004345
Std Dev 1.032

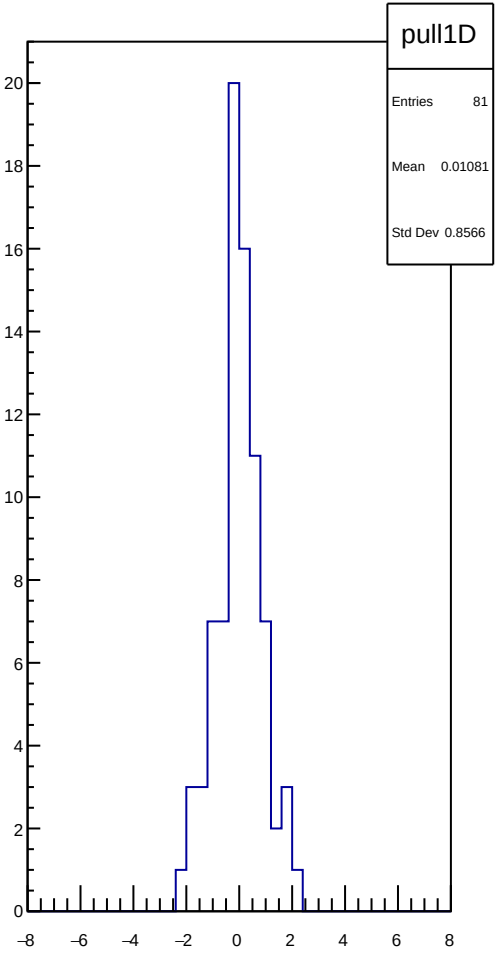

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2879 / 80
p0 33.45 ± 0.02689
46
44
42
40
38
36
34
32
30

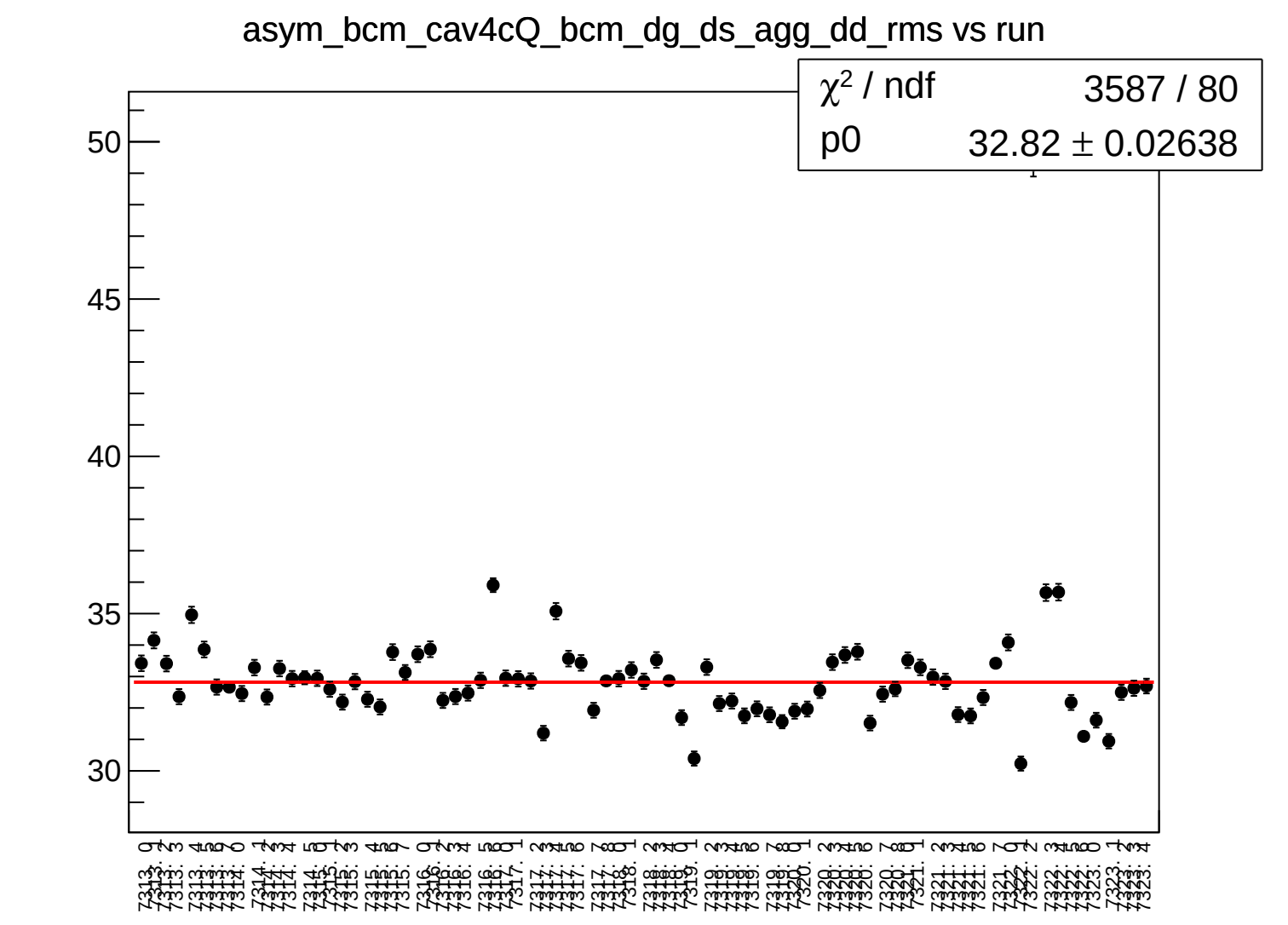

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.23 / 80
p0 85.66 ± 193.4
pull
Entries 81
Mean 151.9
Std Dev 94.6

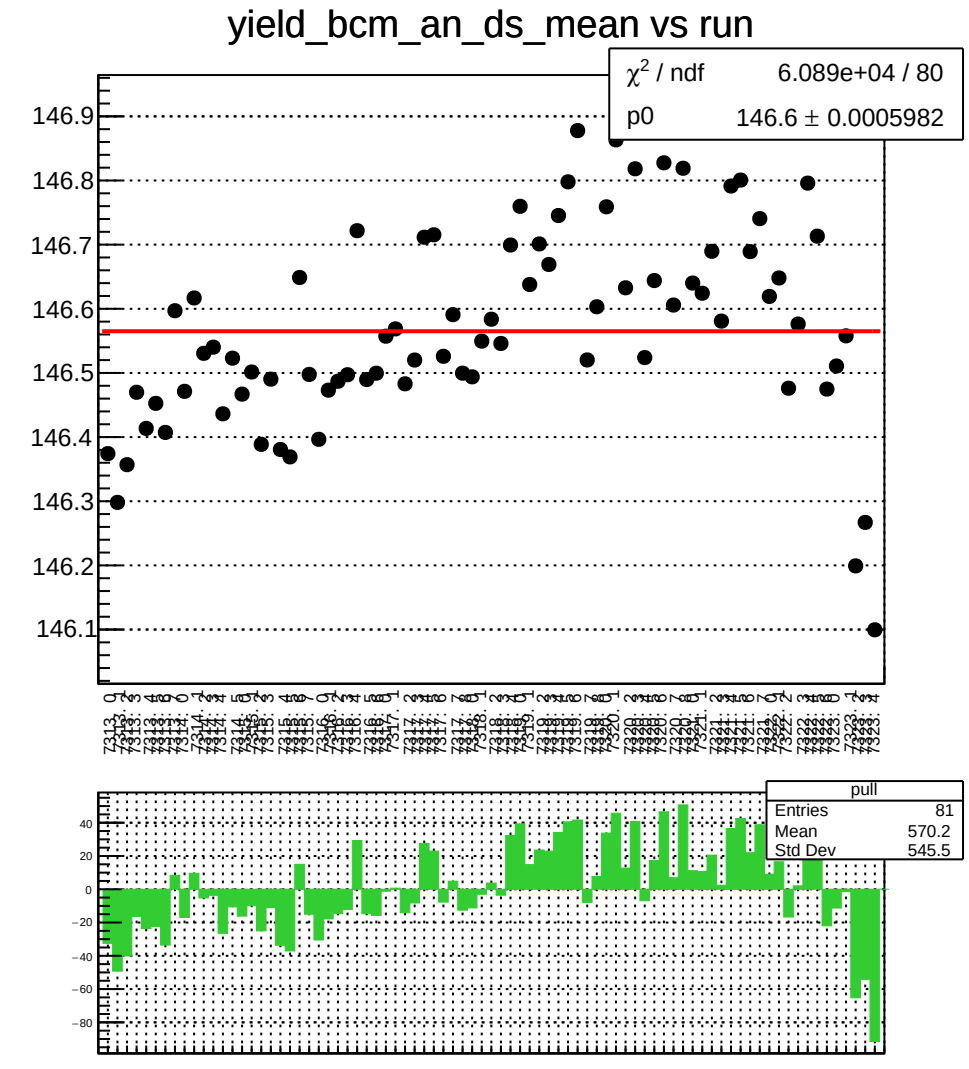

pull1D
Entries 81
Mean −0.006976
Std Dev 0.404

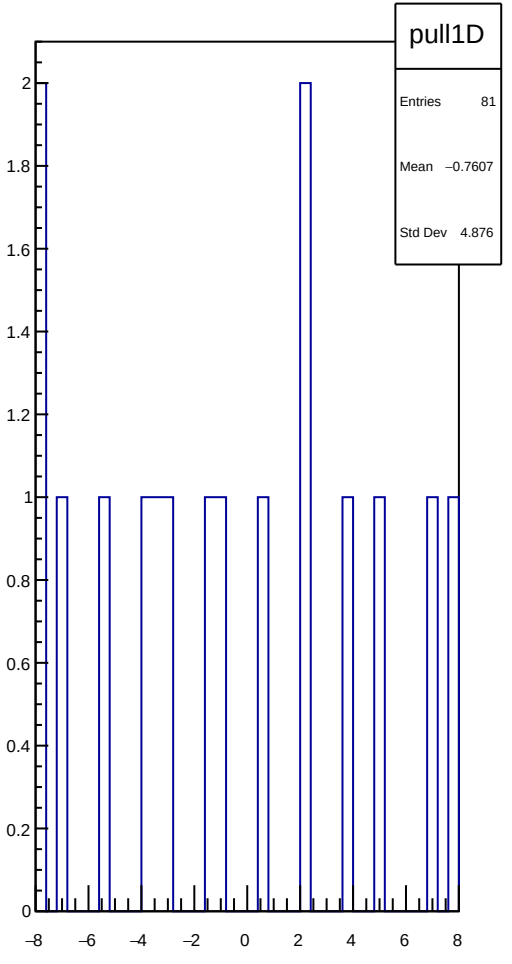

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.122e+04 / 80
p0 169.1 ± 0.1367
550
500
450
400
350
300
250
200
150

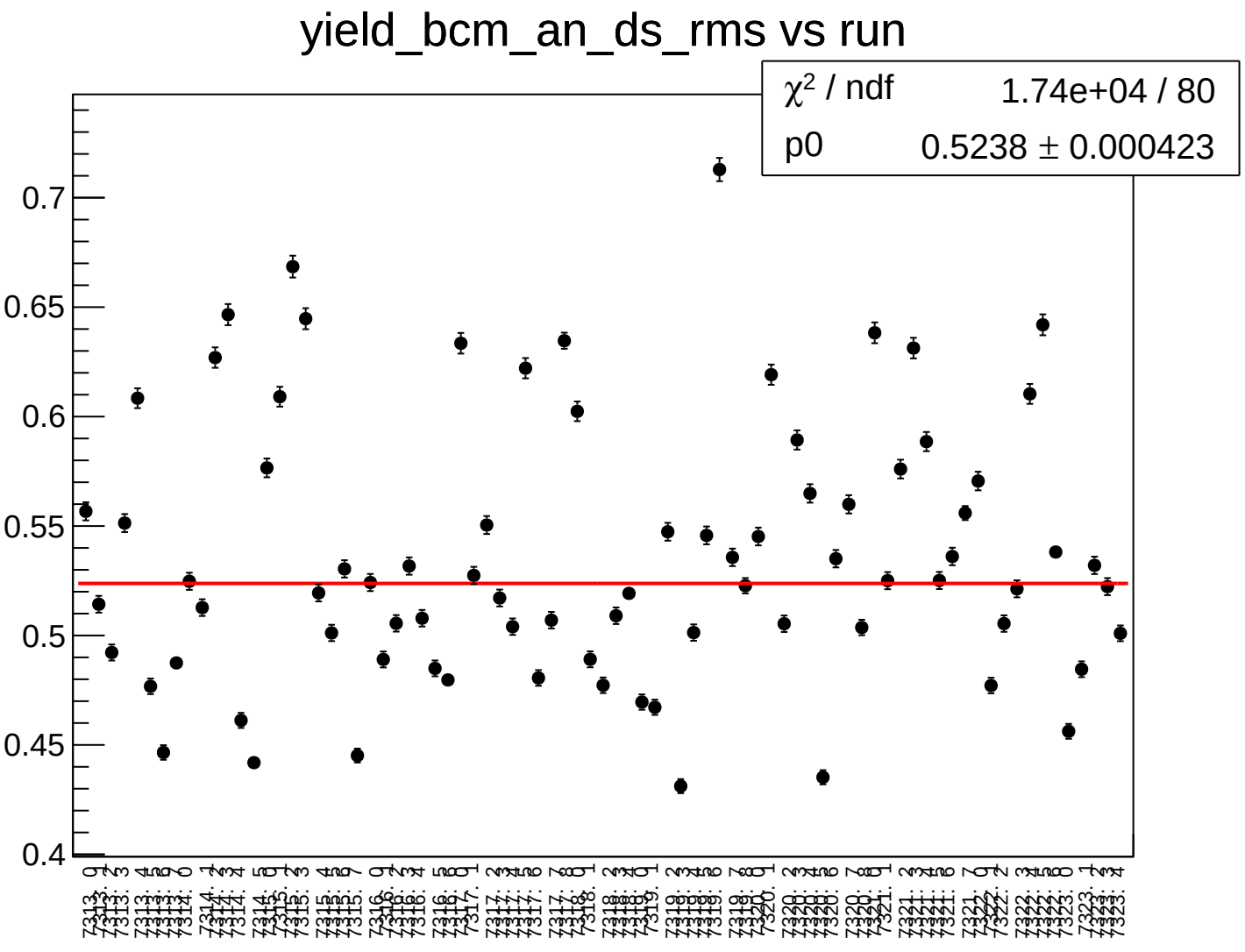

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 59.44 / 80
p0 0.2565 ± 37.31
pull
Entries 81
Mean 117.7
Std Dev 73.45

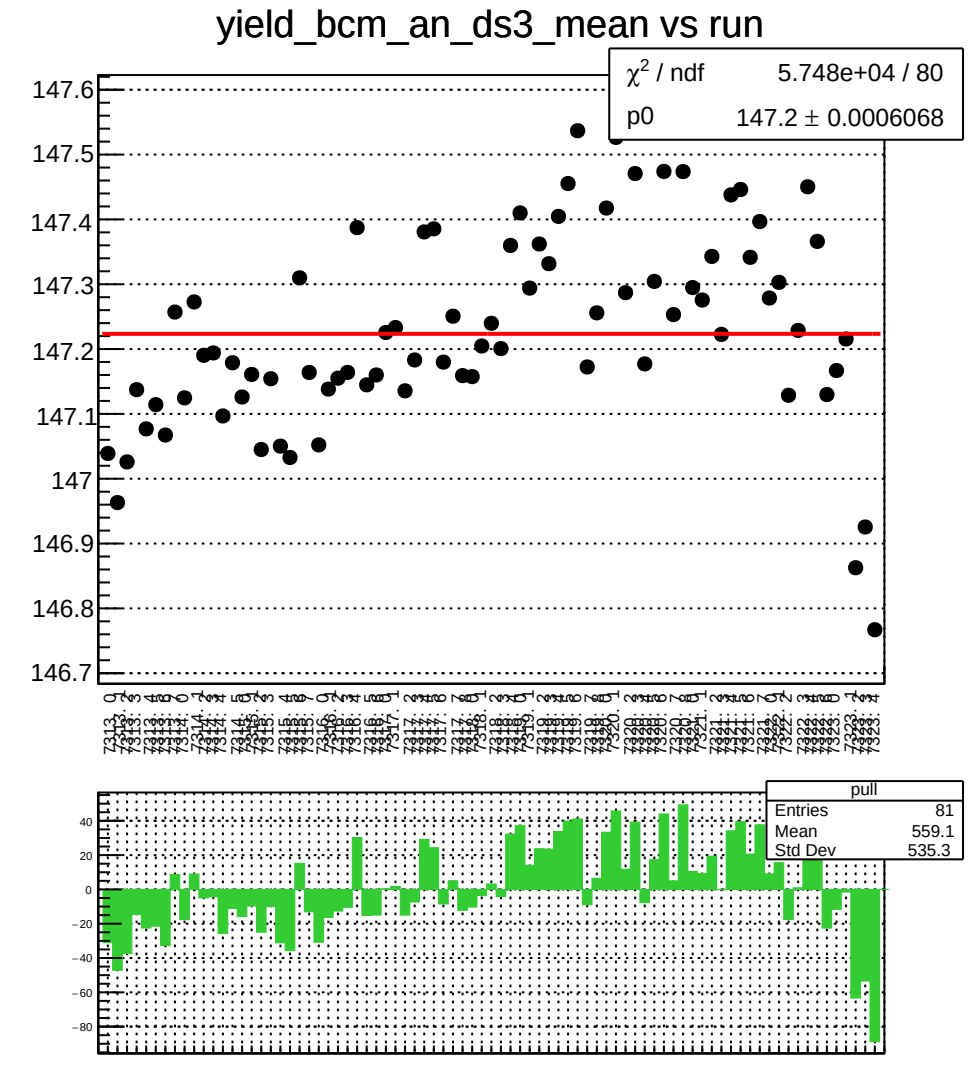

pull1D
Entries 81
Mean 0.01081
Std Dev 0.8566

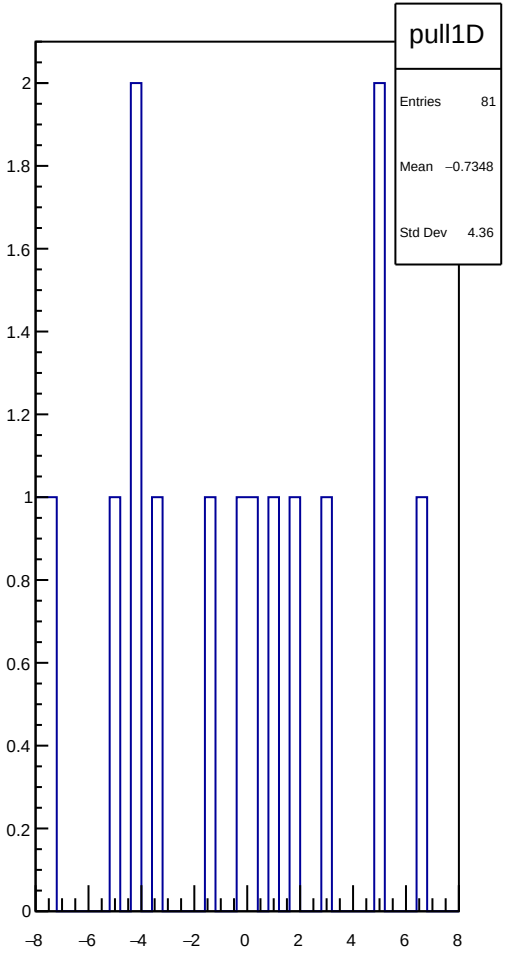

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3587 / 80
p0 32.82 ± 0.02638
50
45
40
35
30

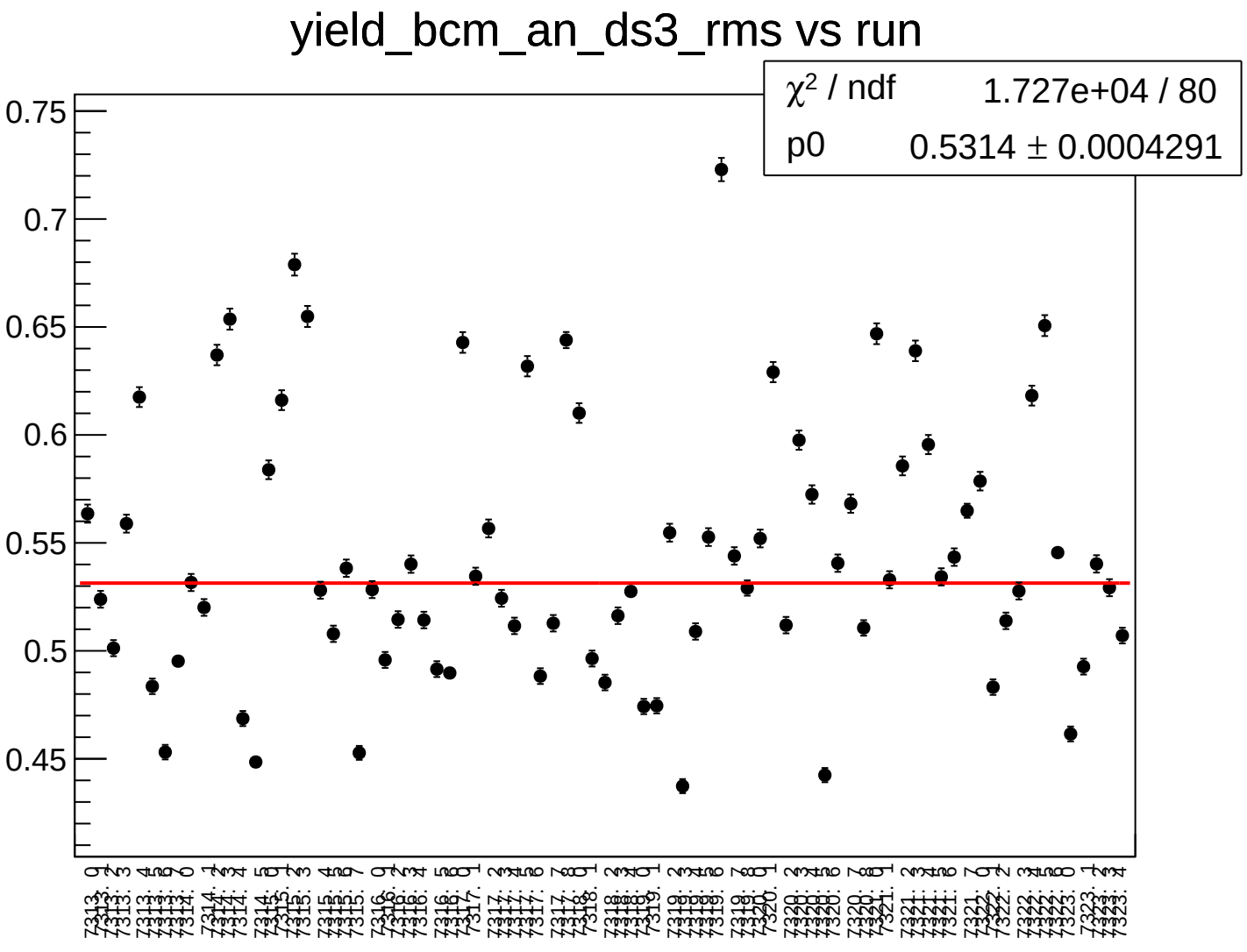

yield_bcm_an_ds_mean vs run
χ² / ndf 6.089e+04 / 80
p0 146.6 ± 0.0005982
146.9
146.8
146.7
146.6
146.5
146.4
146.3
146.2
146.1
pull
Entries 81
Mean 570.2
Std Dev 545.5
40
20
0
−20
−40
−60
−80

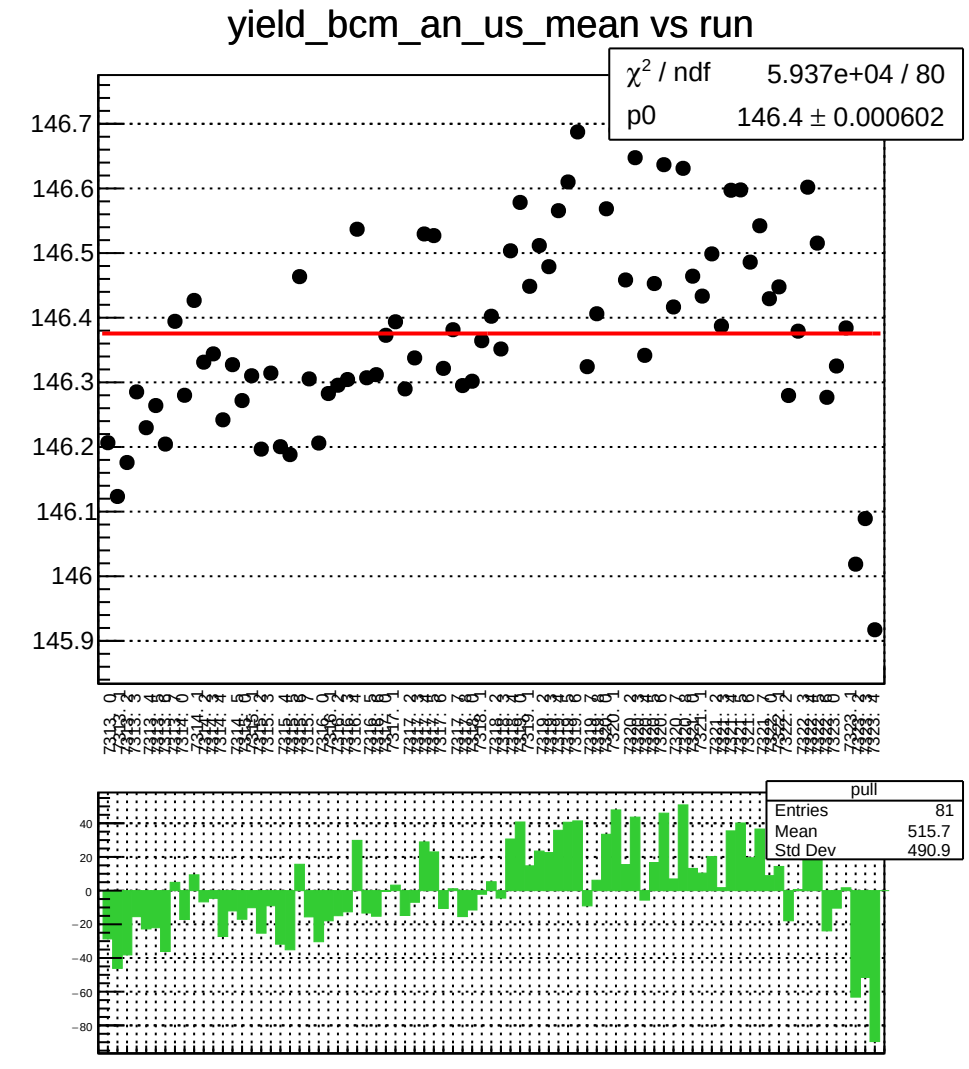

pull1D
Entries 81
Mean −0.7607
Std Dev 4.876
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

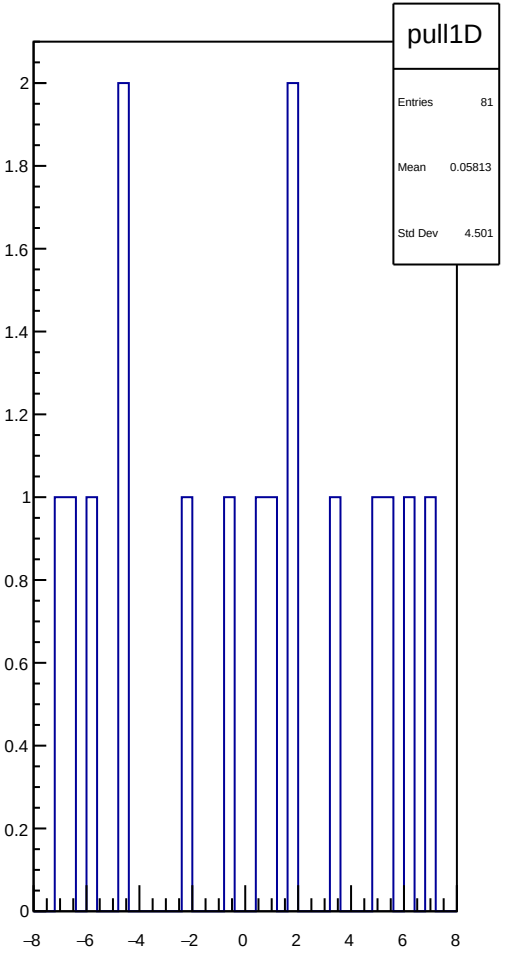

yield_bcm_an_ds_rms vs run
χ² / ndf 1.74e+04 / 80
p0 0.5238 ± 0.000423
0.7
0.65
0.6
0.55
0.5
0.45
0.4

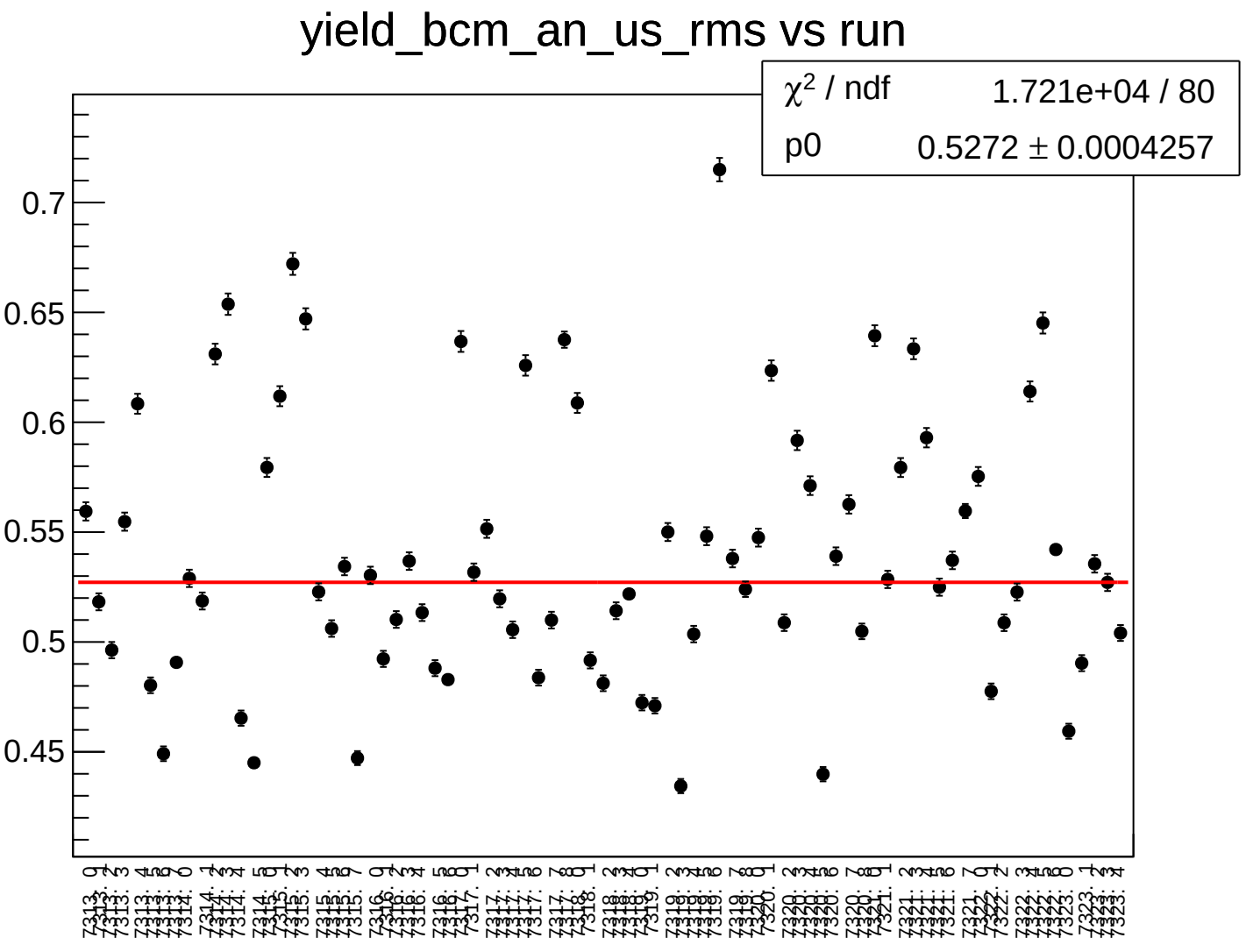

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.748e+04 / 80
p0 147.2 ± 0.0006068
147.6
147.5
147.4
147.3
147.2
147.1
147
146.9
146.8
146.7
pull
Entries 81
Mean 559.1
Std Dev 535.3
40
20
0
−20
−40
−60
−80

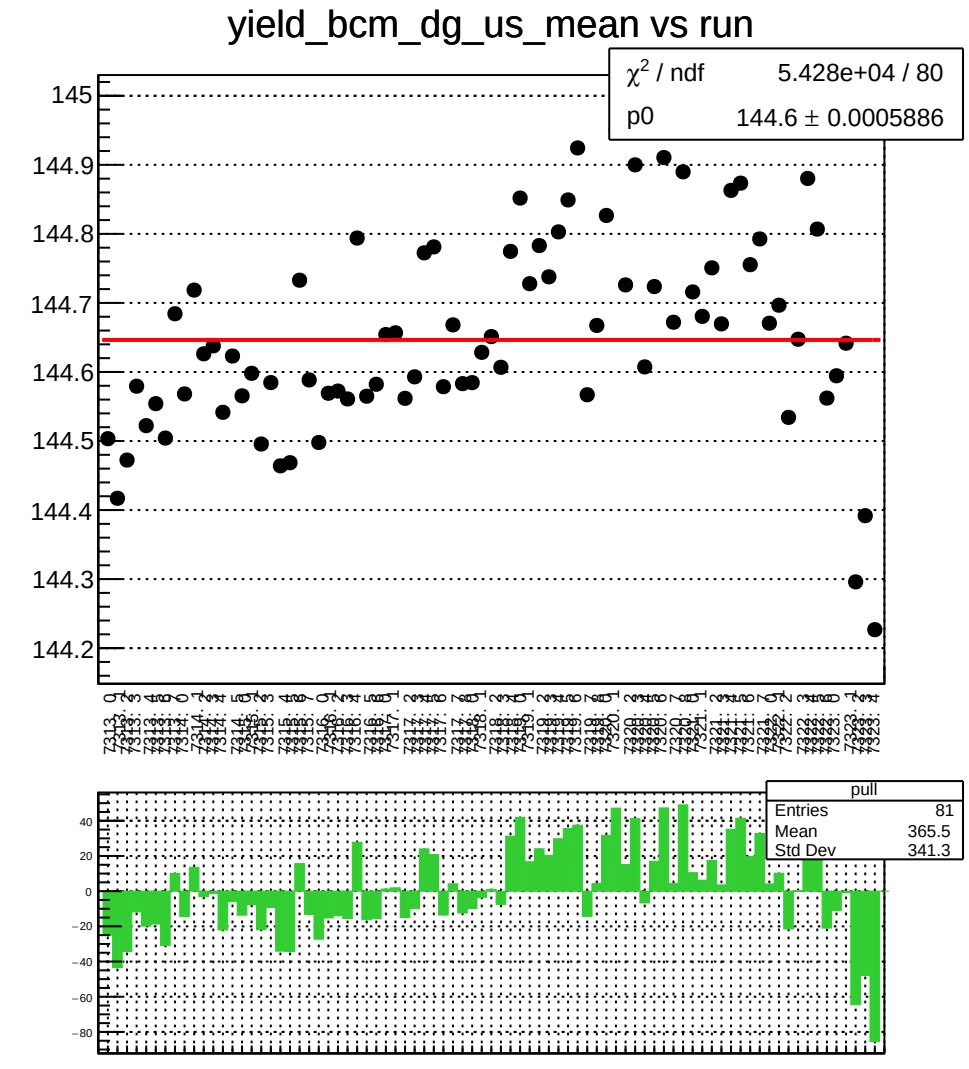

pull1D
Entries 81
Mean −0.7348
Std Dev 4.36
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

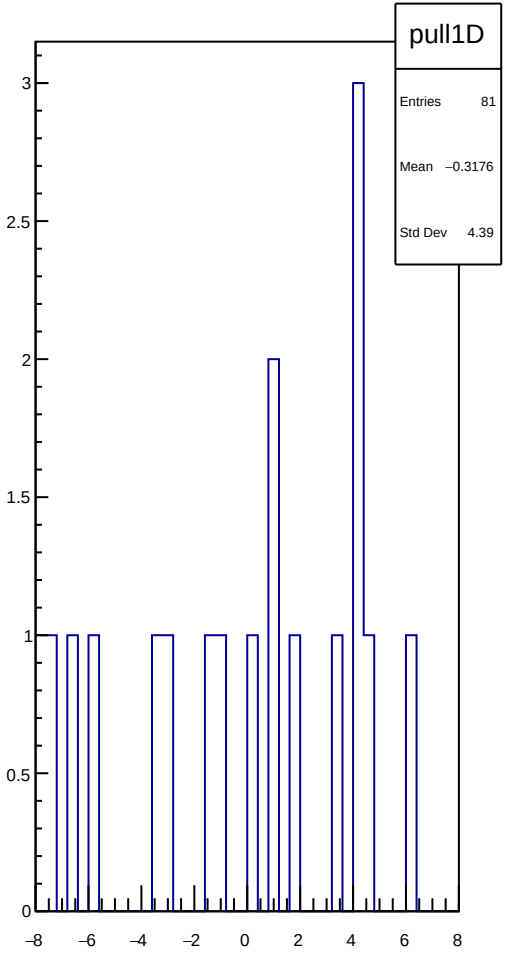

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.727e+04 / 80
p0 0.5314 ± 0.0004291
0.75
0.7
0.65
0.6
0.55
0.5
0.45

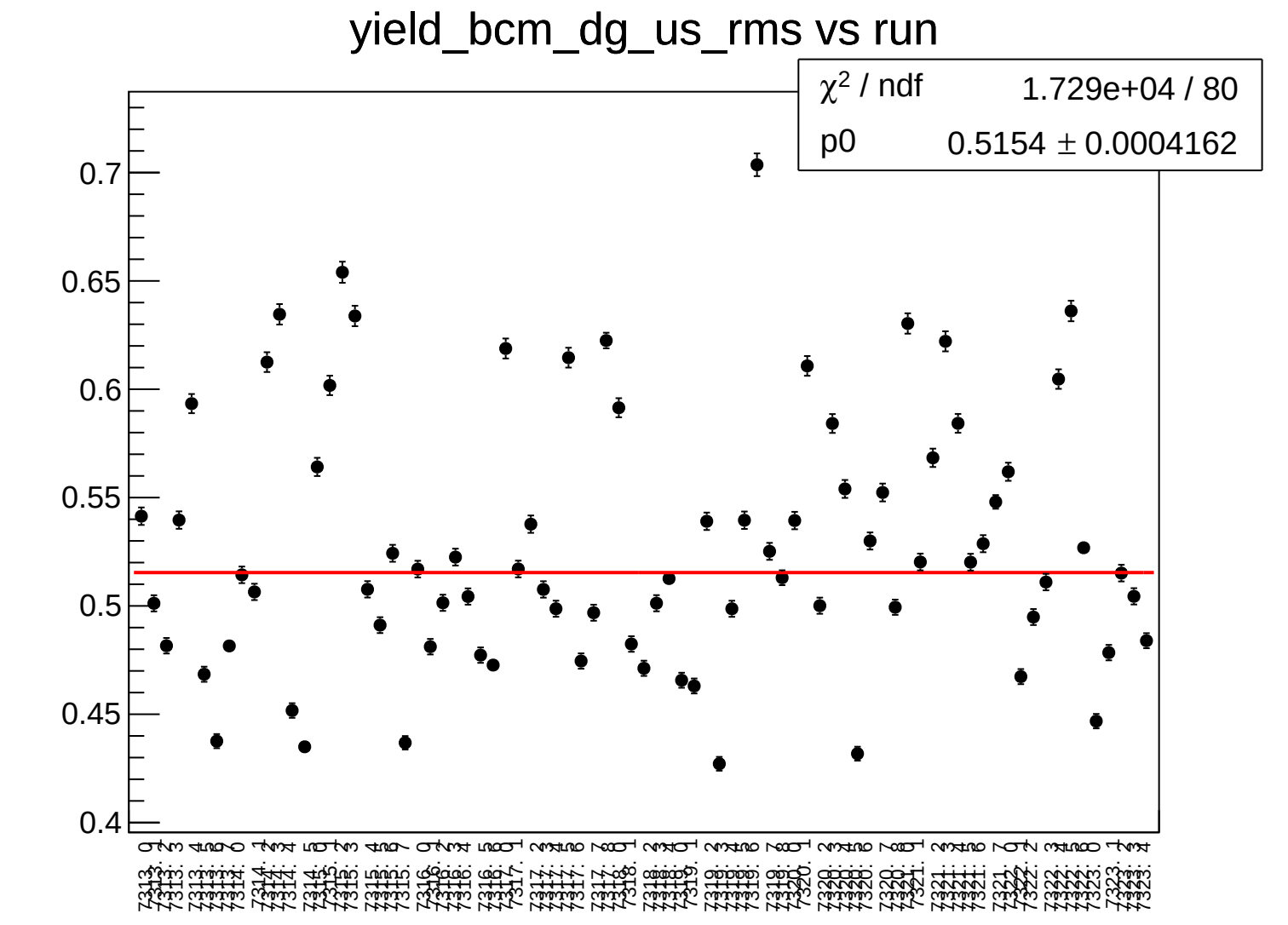

yield_bcm_an_us_mean vs run
χ² / ndf 5.937e+04 / 80
p0 146.4 ± 0.000602
146.7
146.6
146.5
146.4
146.3
146.2
146.1
146
145.9
pull
Entries 81
Mean 515.7
Std Dev 490.9
40
20
0
−20
−40
−60
−80

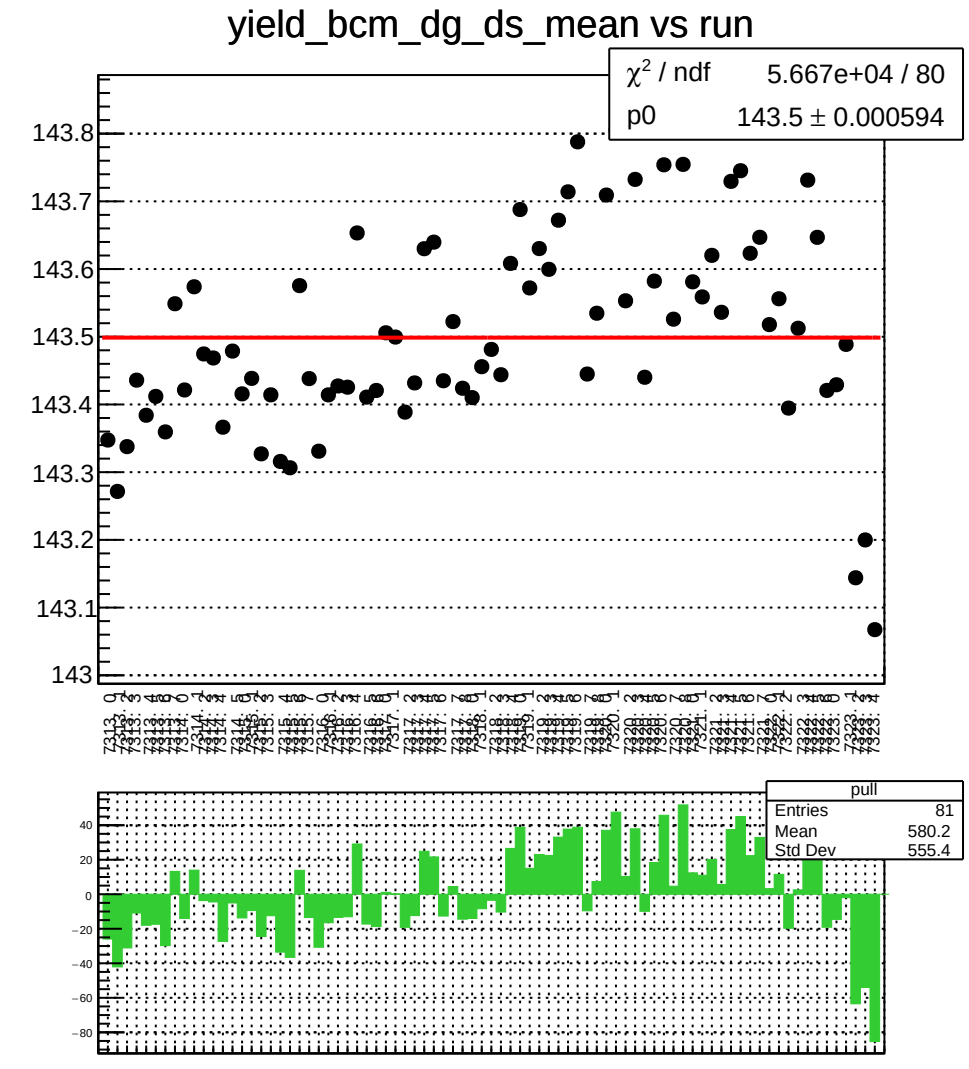

pull1D
Entries 81
Mean 0.05813
Std Dev 4.501
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

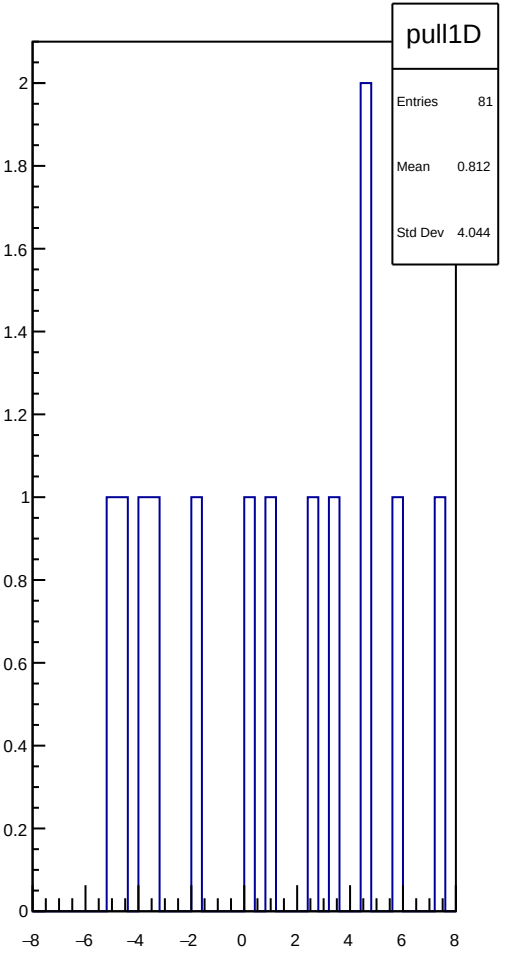

yield_bcm_an_us_rms vs run
χ² / ndf 1.721e+04 / 80
p0 0.5272 ± 0.0004257
0.7
0.65
0.6
0.55
0.5
0.45

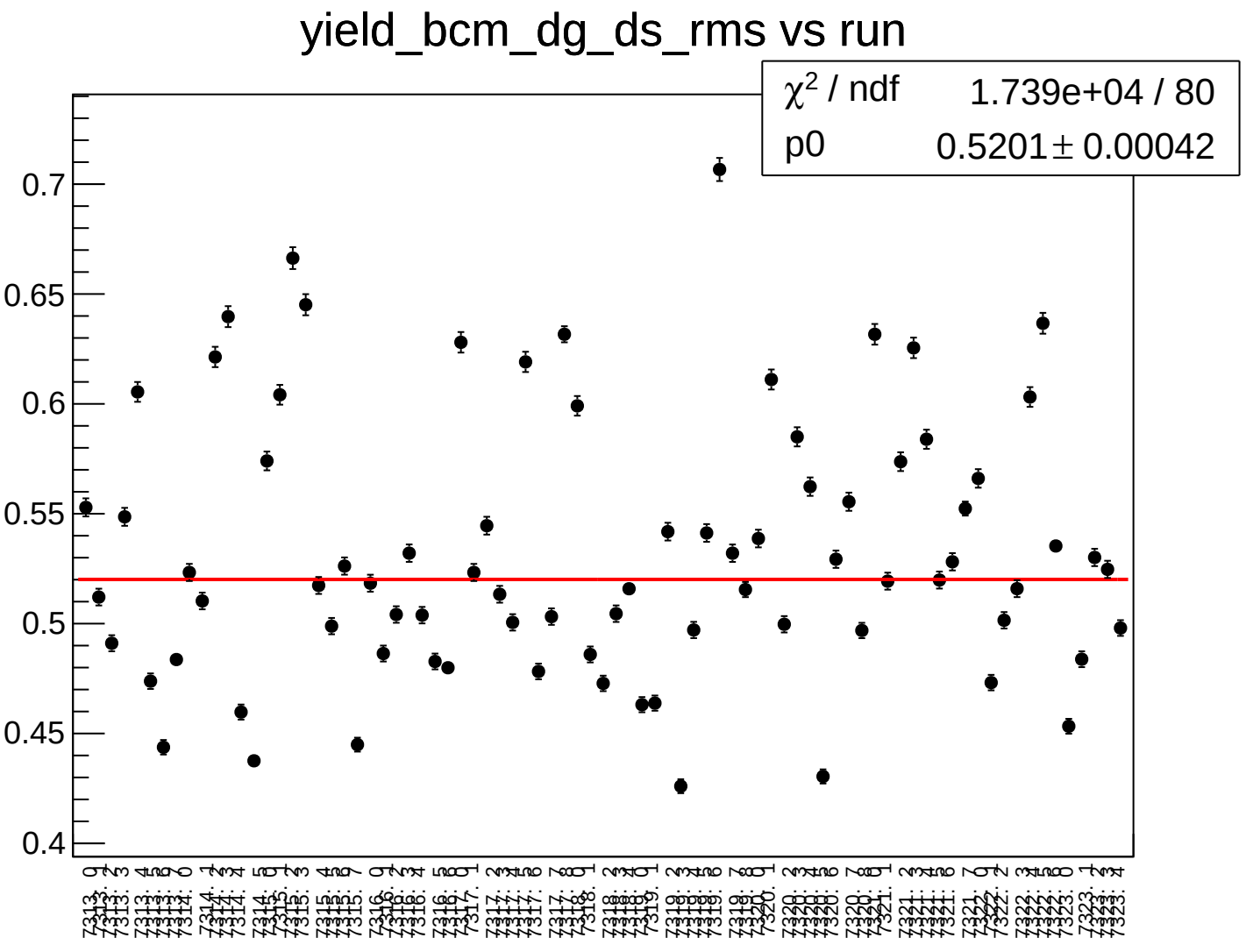

yield_bcm_dg_us_mean vs run
χ² / ndf 5.428e+04 / 80
p0 144.6 ± 0.0005886
145
144.9
144.8
144.7
144.6
144.5
144.4
144.3
144.2
pull
Entries 81
Mean 365.5
Std Dev 341.3
40
20
0
−20
−40
−60
−80

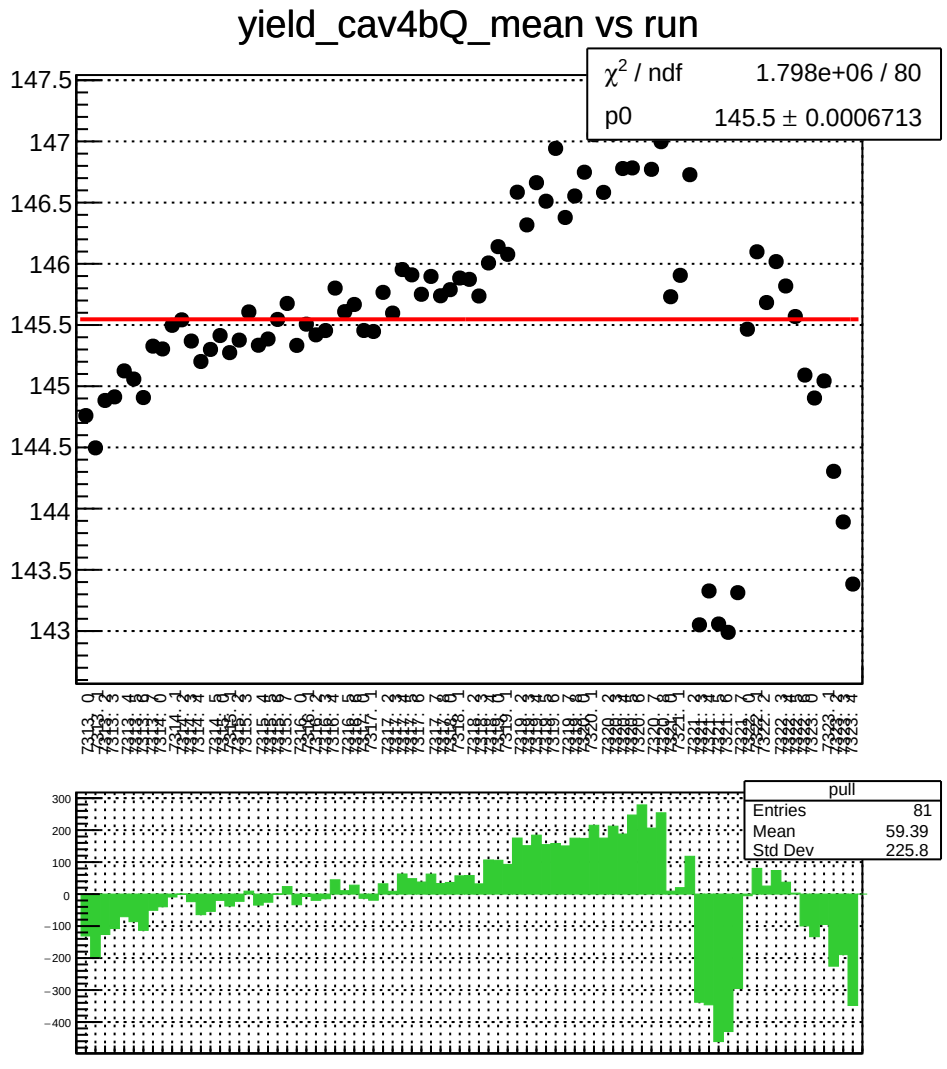

pull1D
Entries 81
Mean −0.3176
Std Dev 4.39
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

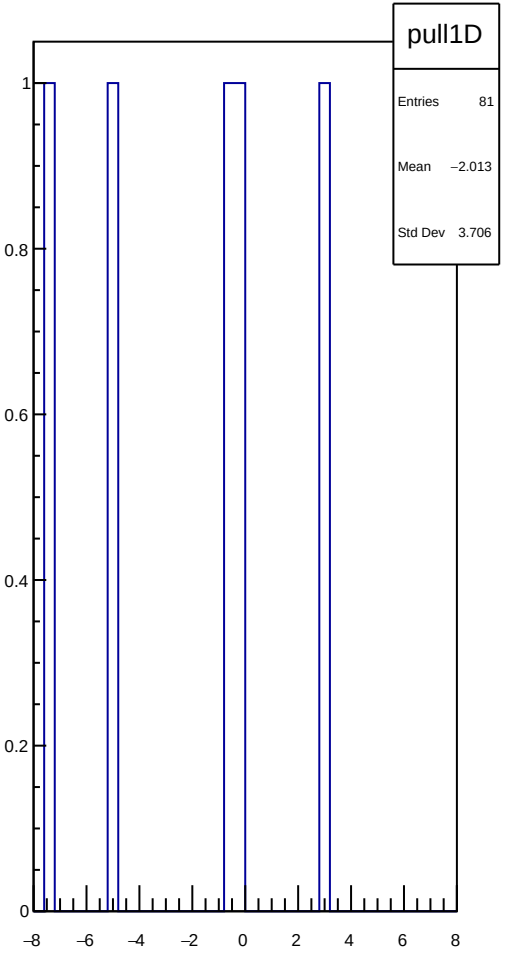

yield_bcm_dg_us_rms vs run
χ² / ndf 1.729e+04 / 80
p0 0.5154 ± 0.0004162
0.7
0.65
0.6
0.55
0.5
0.45
0.4

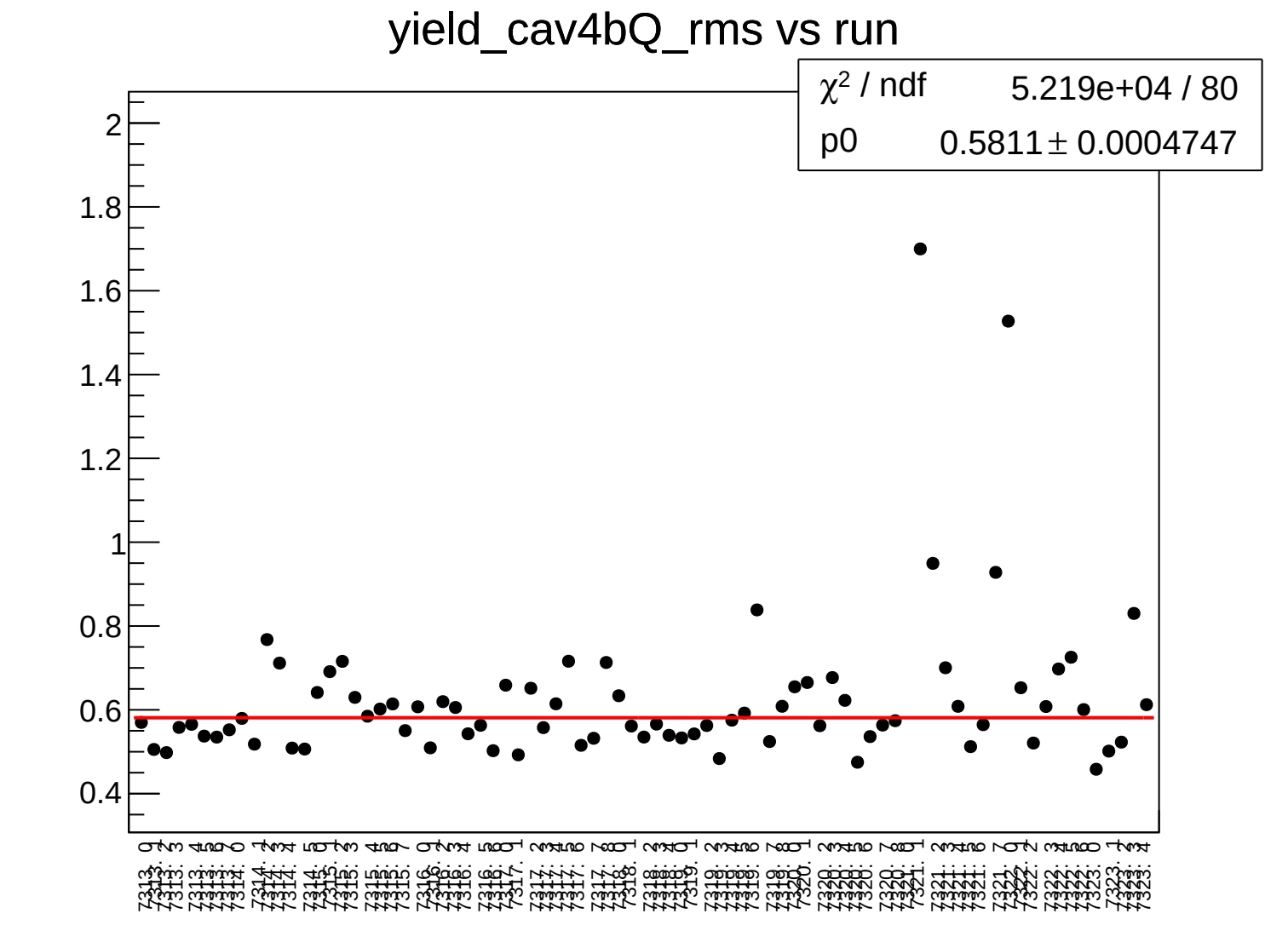

yield_bcm_dg_ds_mean vs run
χ² / ndf 5.667e+04 / 80
p0 143.5 ± 0.000594
143.8
143.7
143.6
143.5
143.4
143.3
143.2
143.1
143
pull
Entries 81
Mean 580.2
Std Dev 555.4
40
20
0
−20
−40
−60
−80

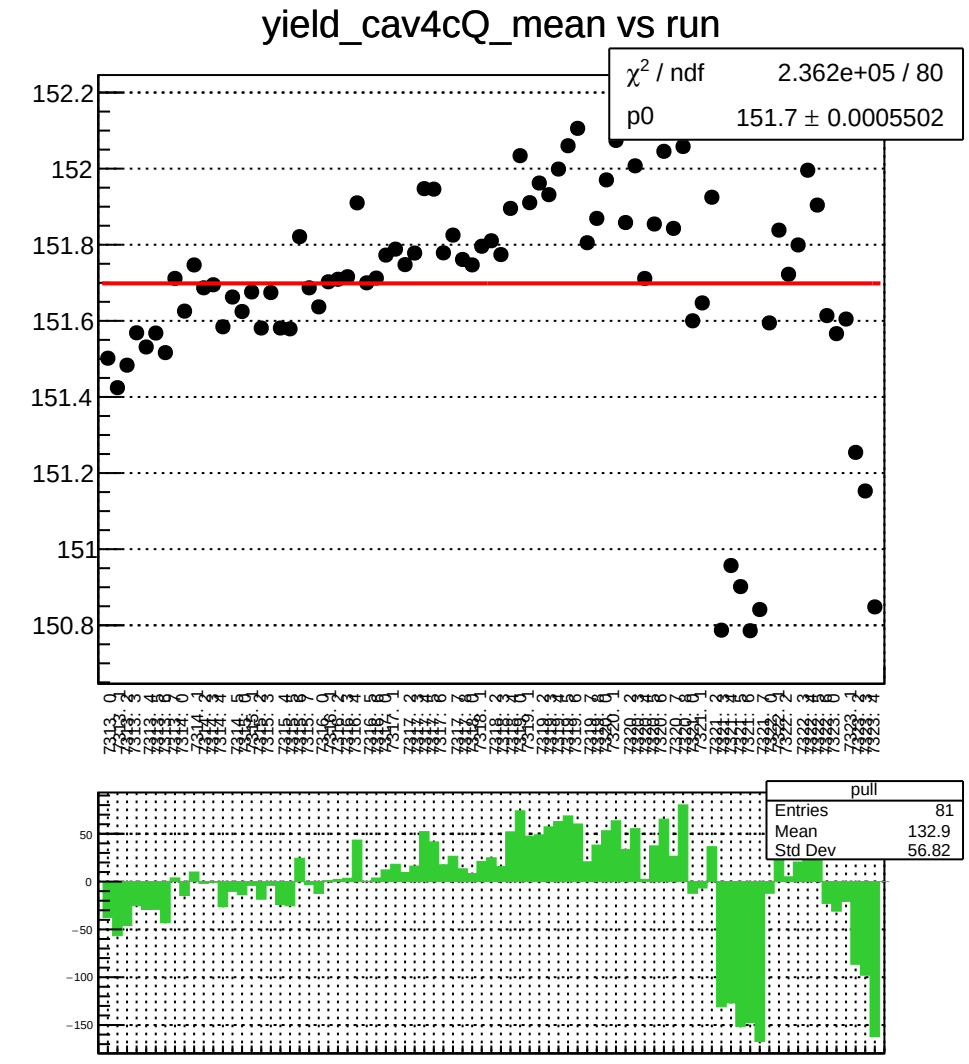

pull1D
Entries 81
Mean 0.812
Std Dev 4.044
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

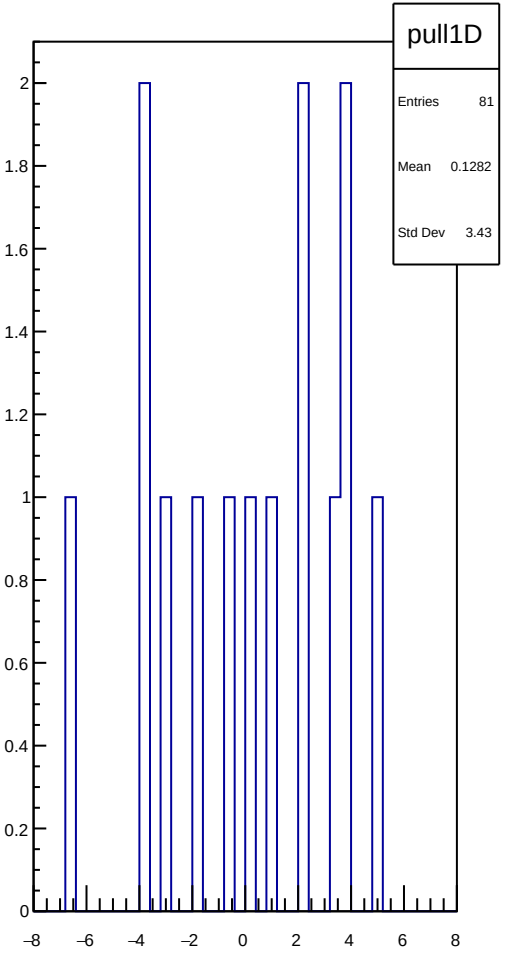

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.739e+04 / 80
p0 0.5201 ± 0.00042
0.7
0.65
0.6
0.55
0.5
0.45
0.4

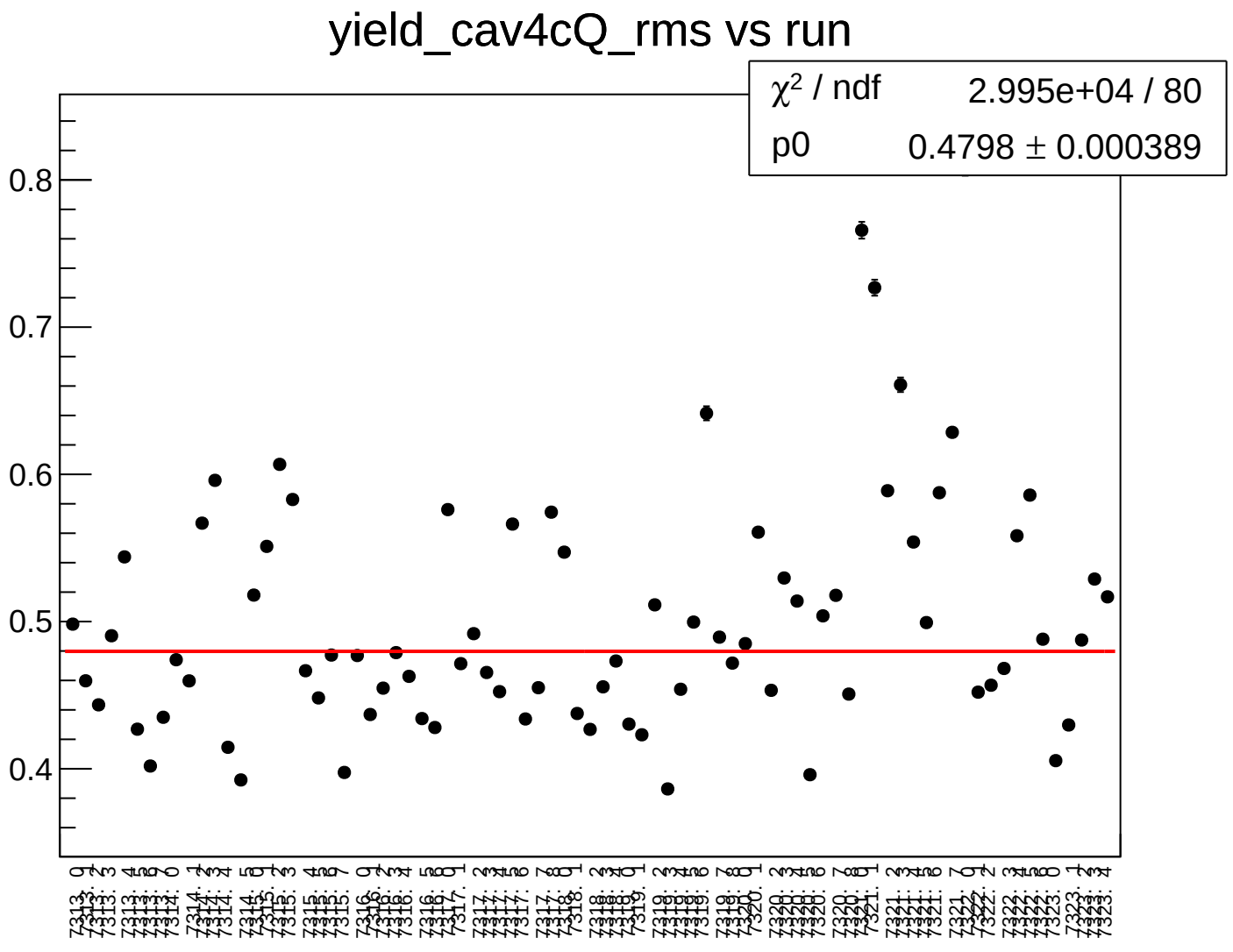

yield_cav4bQ_mean vs run
χ² / ndf 1.798e+06 / 80
p0 145.5 ± 0.0006713
147.5
147
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 81
Mean 59.39
Std Dev 225.8
300
200
100
0
−100
−200
−300
−400

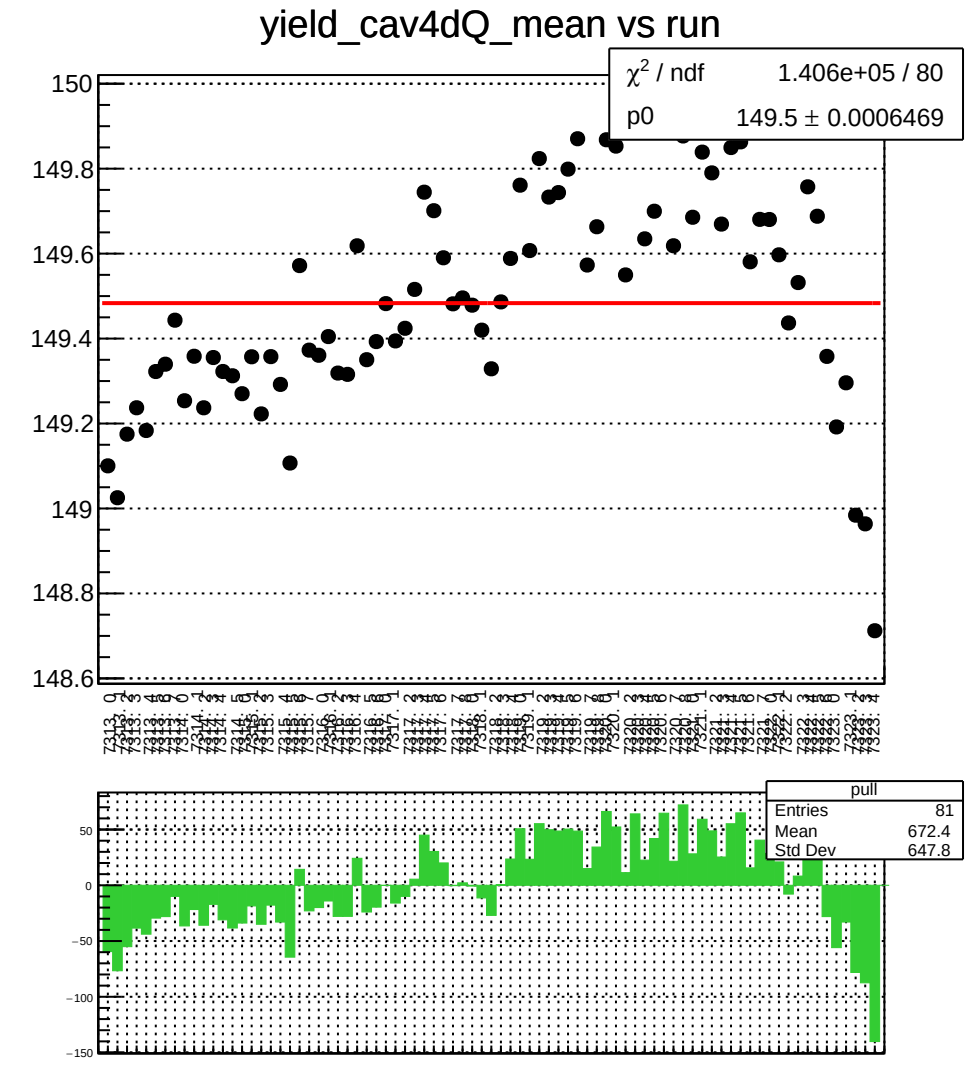

pull1D
Entries 81
Mean −2.013
Std Dev 3.706
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

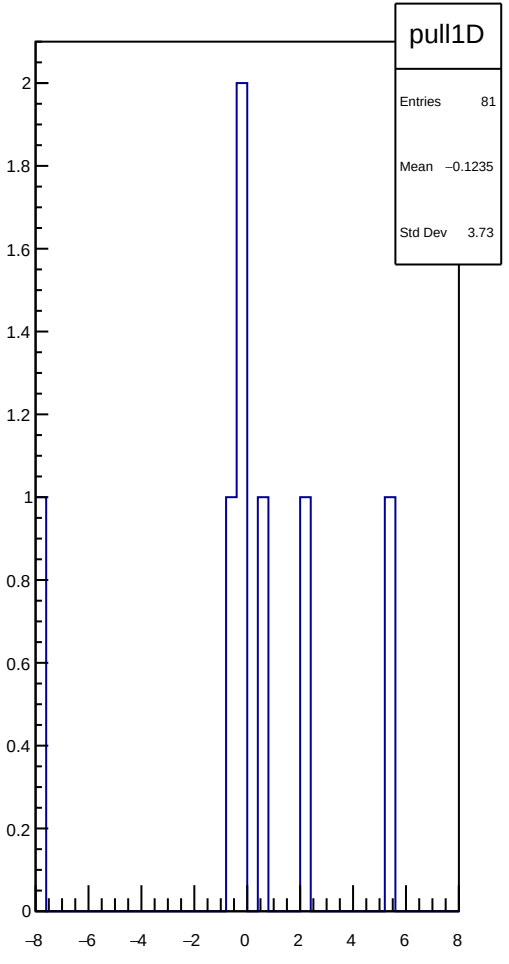

yield_cav4bQ_rms vs run
χ² / ndf 5.219e+04 / 80
p0 0.5811 ± 0.0004747
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

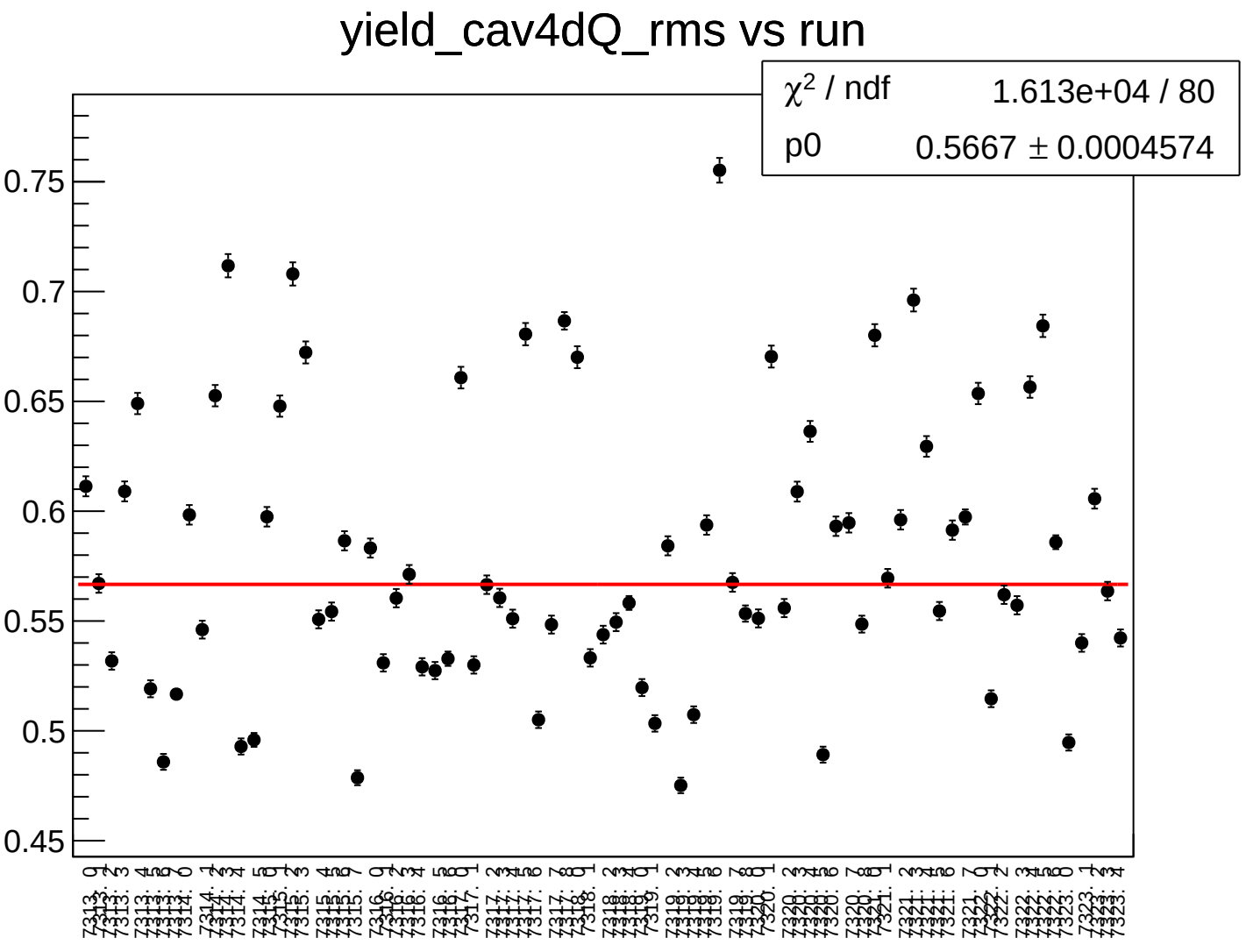

yield_cav4cQ_mean vs run
χ² / ndf 2.362e+05 / 80
p0 151.7 ± 0.0005502
152.2
152
151.8
151.6
151.4
151.2
151
150.8
pull
Entries 81
Mean 132.9
Std Dev 56.82
50
0
−50
−100
−150

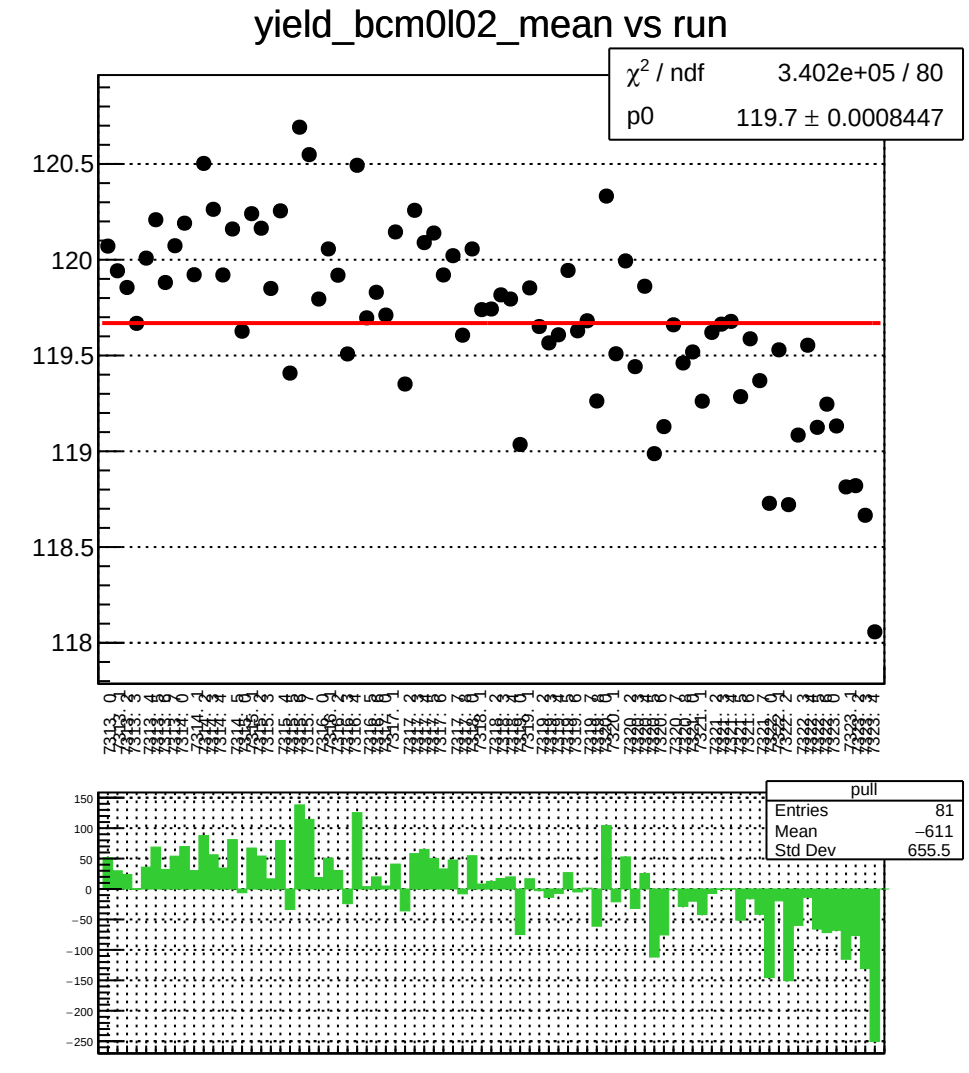

pull1D
Entries 81
Mean 0.1282
Std Dev 3.43
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

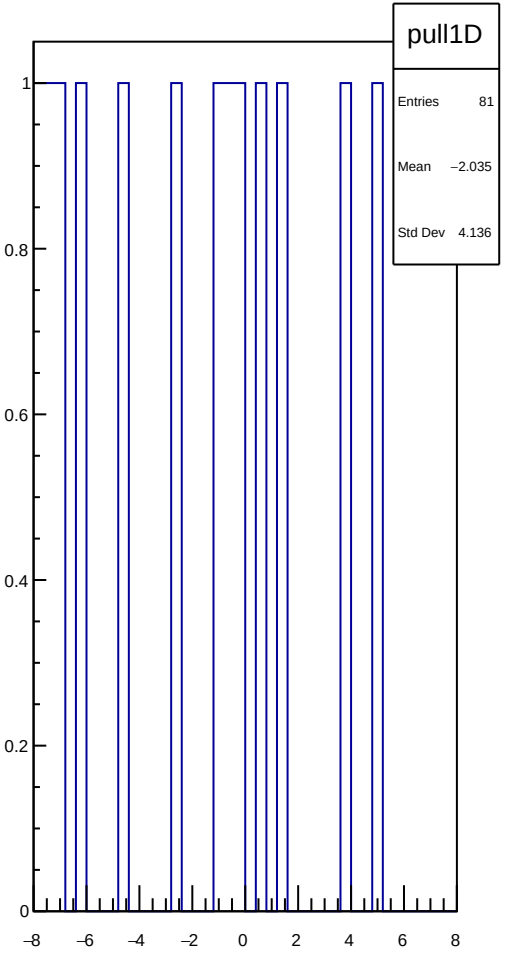

yield_cav4cQ_rms vs run
χ² / ndf 2.995e+04 / 80
p0 0.4798 ± 0.000389
0.8
0.7
0.6
0.5
0.4

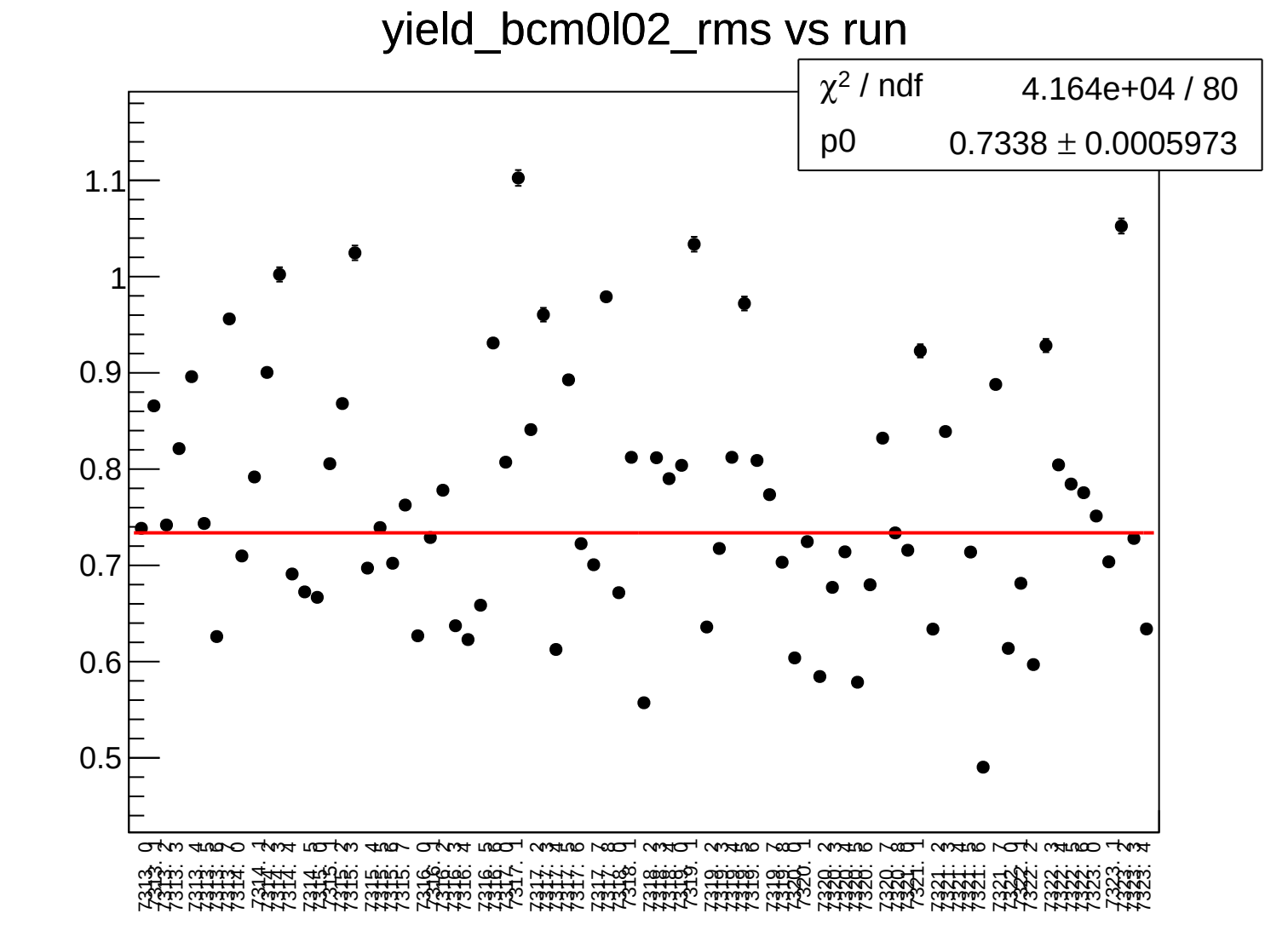

yield_cav4dQ_mean vs run
χ² / ndf 1.406e+05 / 80
p0 149.5 ± 0.0006469
150
149.8
149.6
149.4
149.2
149
148.8
148.6
pull
Entries 81
Mean 672.4
Std Dev 647.8
50
0
−50
−100
−150

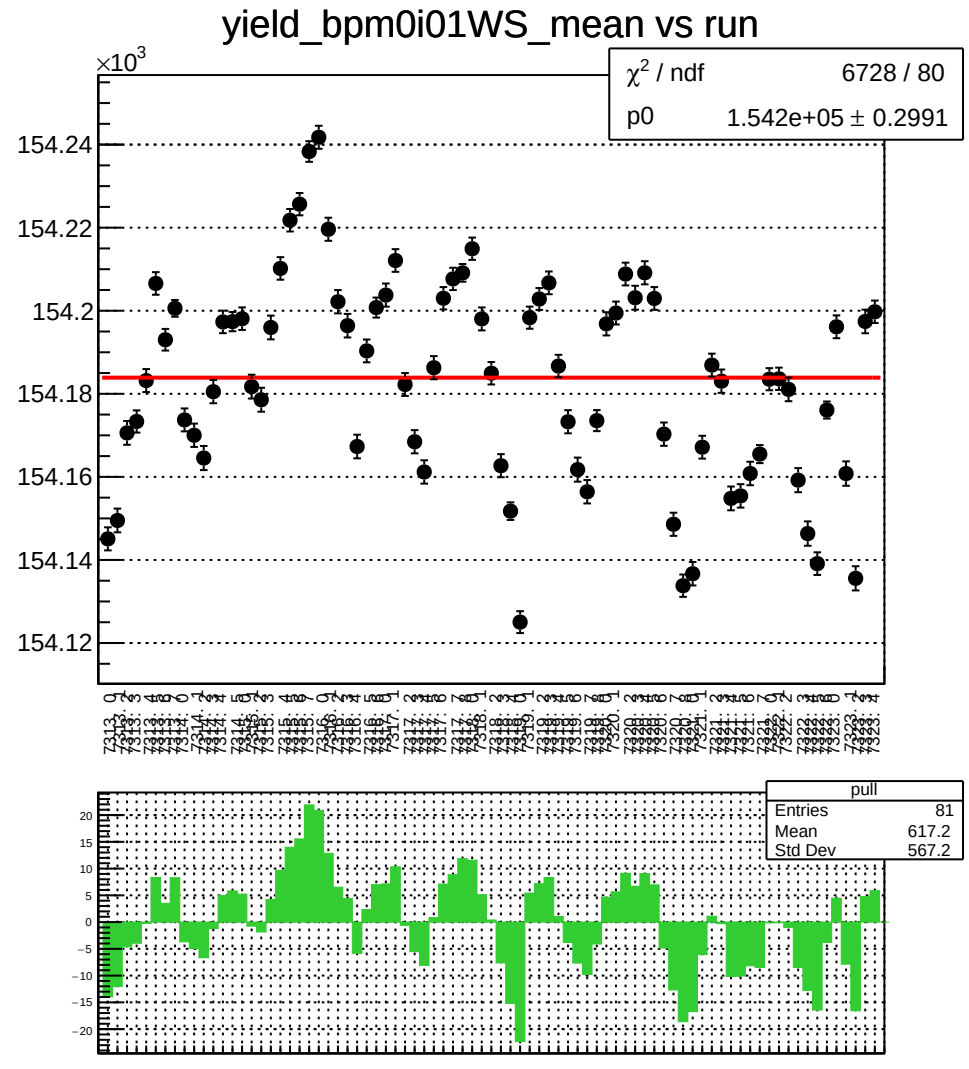

pull1D
Entries 81
Mean −0.1235
Std Dev 3.73
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

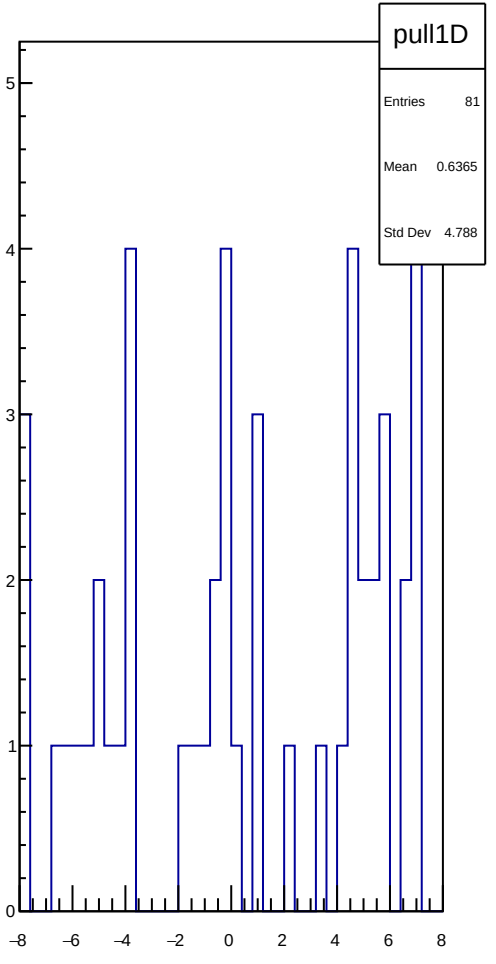

yield_cav4dQ_rms vs run
χ² / ndf 1.613e+04 / 80
p0 0.5667 ± 0.0004574
0.75
0.7
0.65
0.6
0.55
0.5
0.45

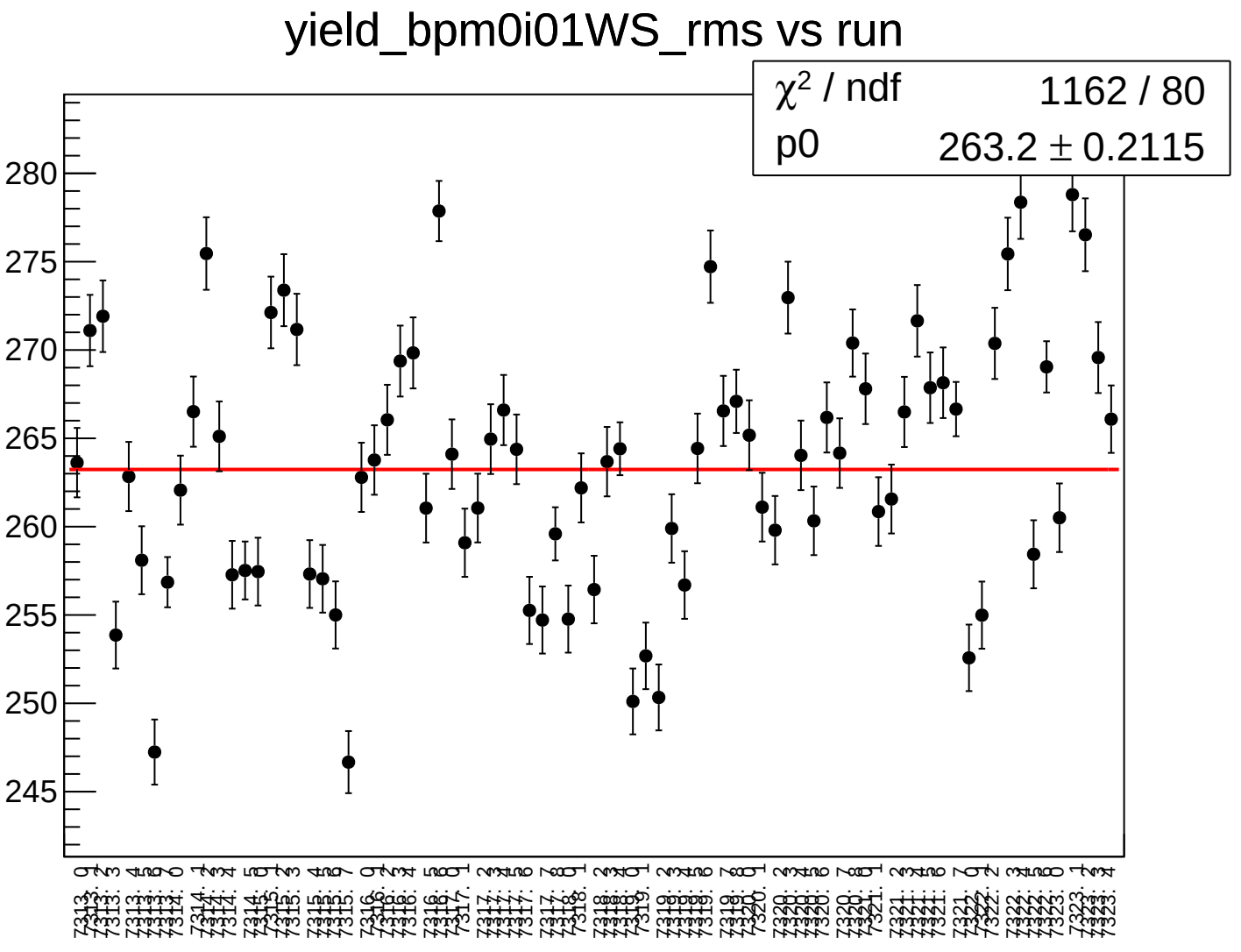

yield_bcm0l02_mean vs run
χ² / ndf 3.402e+05 / 80
p0 119.7 ± 0.0008447
120.5
120
119.5
119
118.5
118
pull
Entries 81
Mean −611
Std Dev 655.5
150
100
50
0
−50
−100
−150
−200
−250

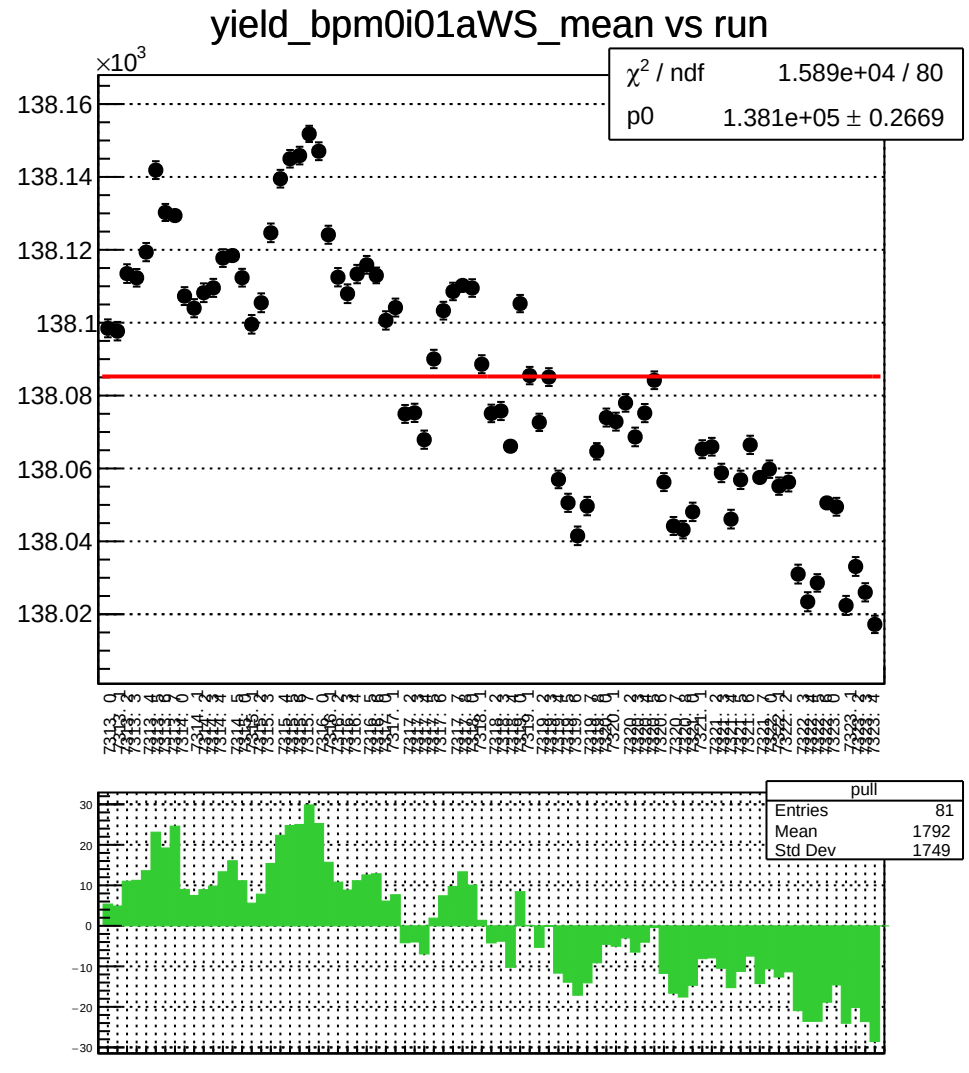

pull1D
Entries 81
Mean −2.035
Std Dev 4.136
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

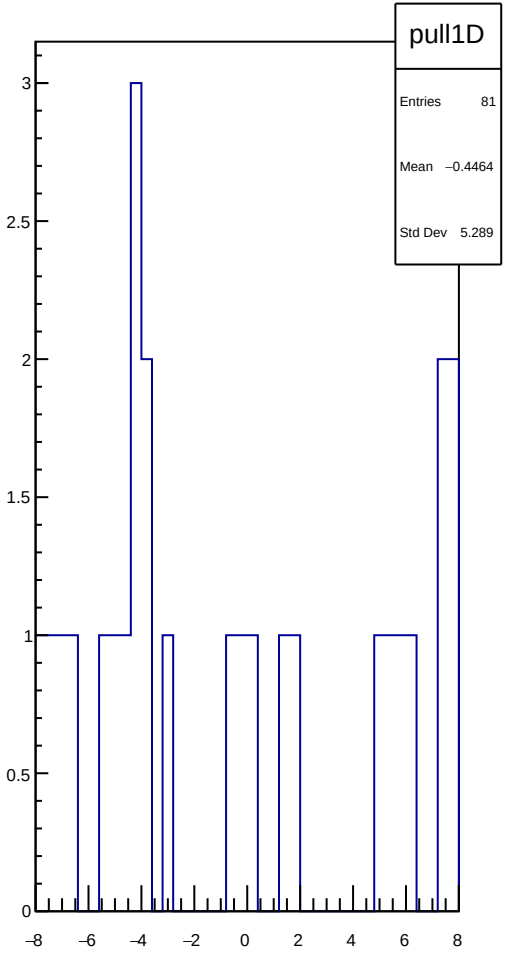

yield_bcm0l02_rms vs run
χ² / ndf 4.164e+04 / 80
p0 0.7338 ± 0.0005973
1.1
1
0.9
0.8
0.7
0.6
0.5

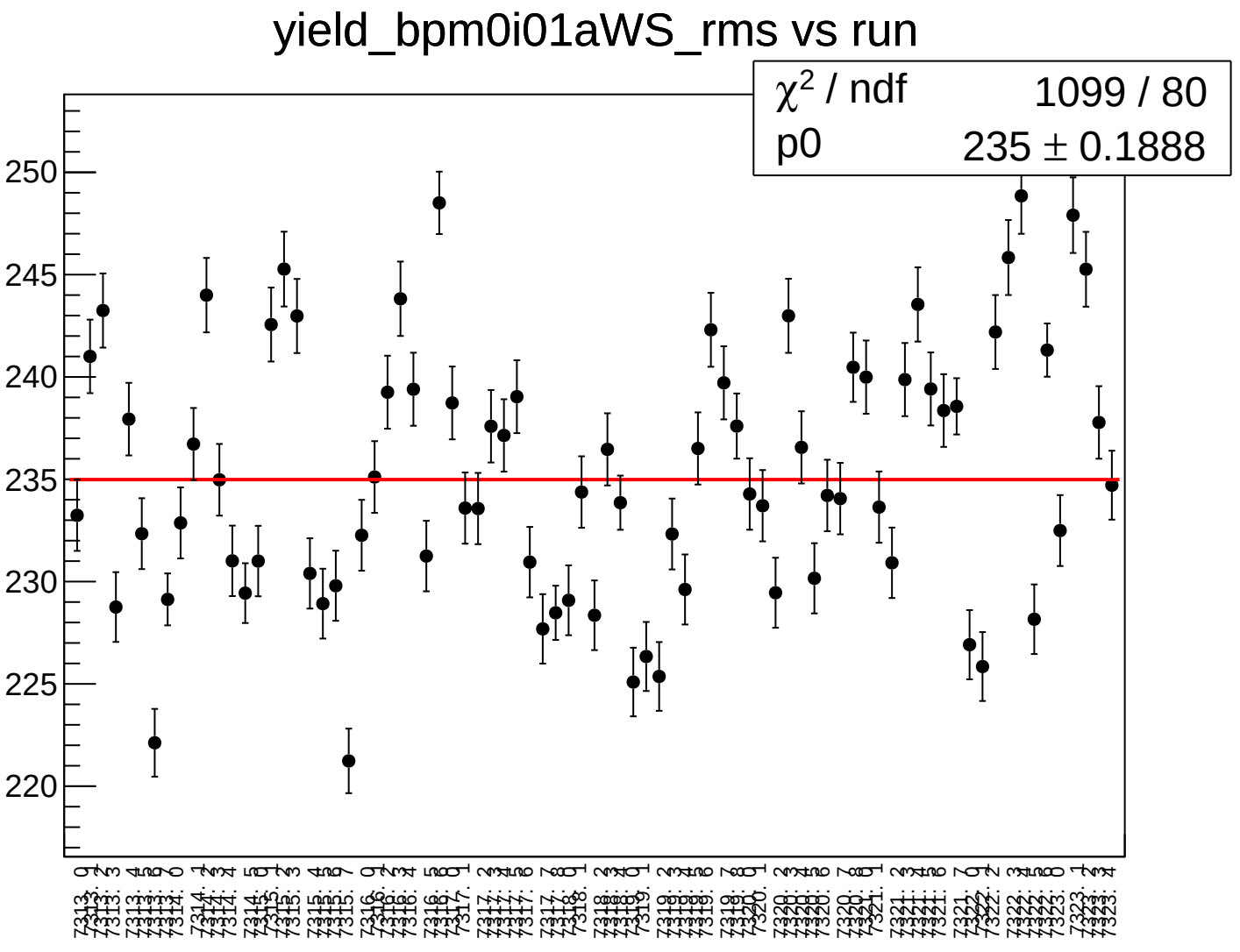

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 6728 / 80
p0 1.542e+05 ± 0.2991
154.24
154.22
154.2
154.18
154.16
154.14
154.12
pull
Entries 81
Mean 617.2
Std Dev 567.2
20
15
10
5
0
−5
−10
−15
−20

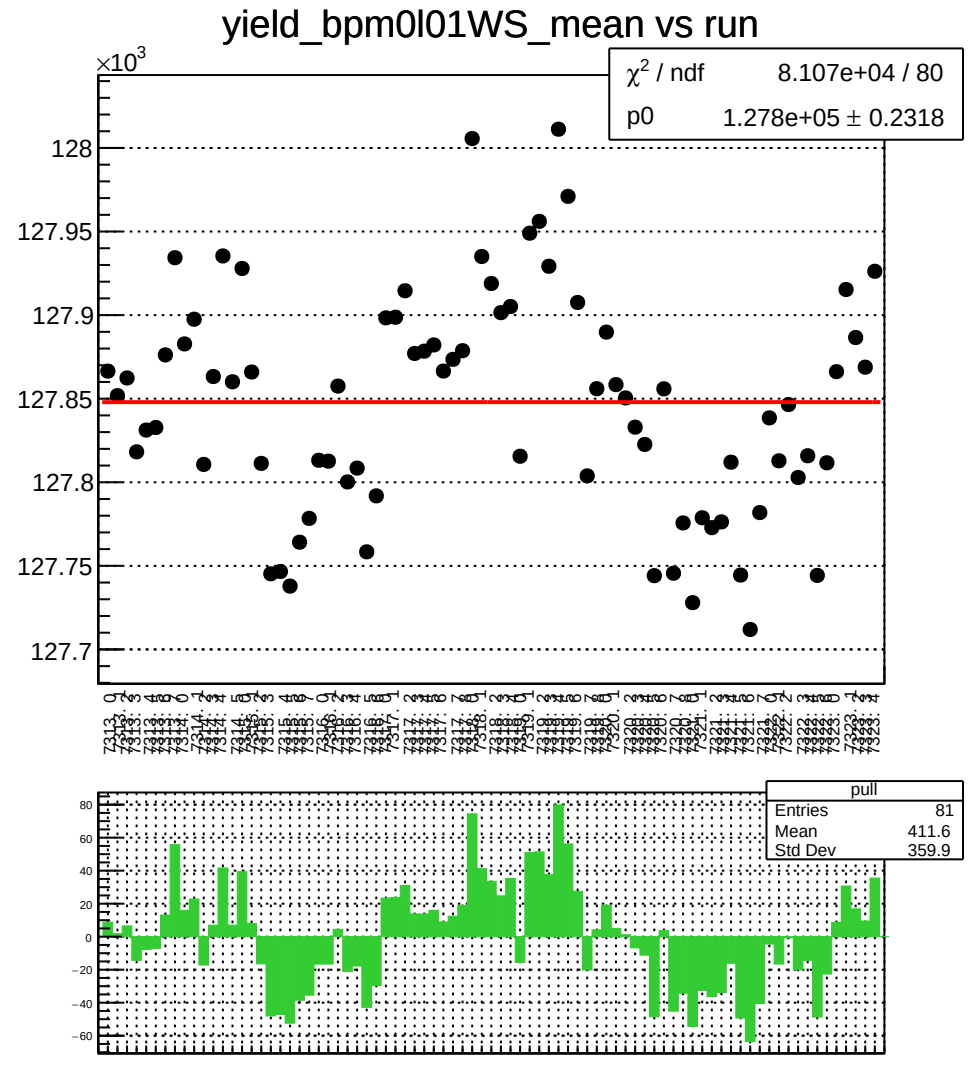

pull1D
Entries 81
Mean 0.6365
Std Dev 4.788
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

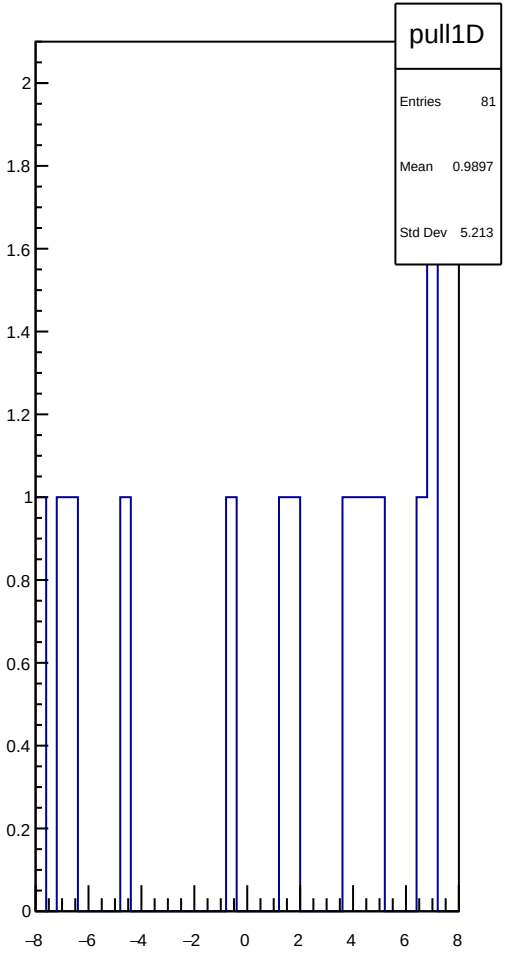

yield_bpm0i01WS_rms vs run
χ² / ndf 1162 / 80
p0 263.2 ± 0.2115
280
275
270
265
260
255
250
245

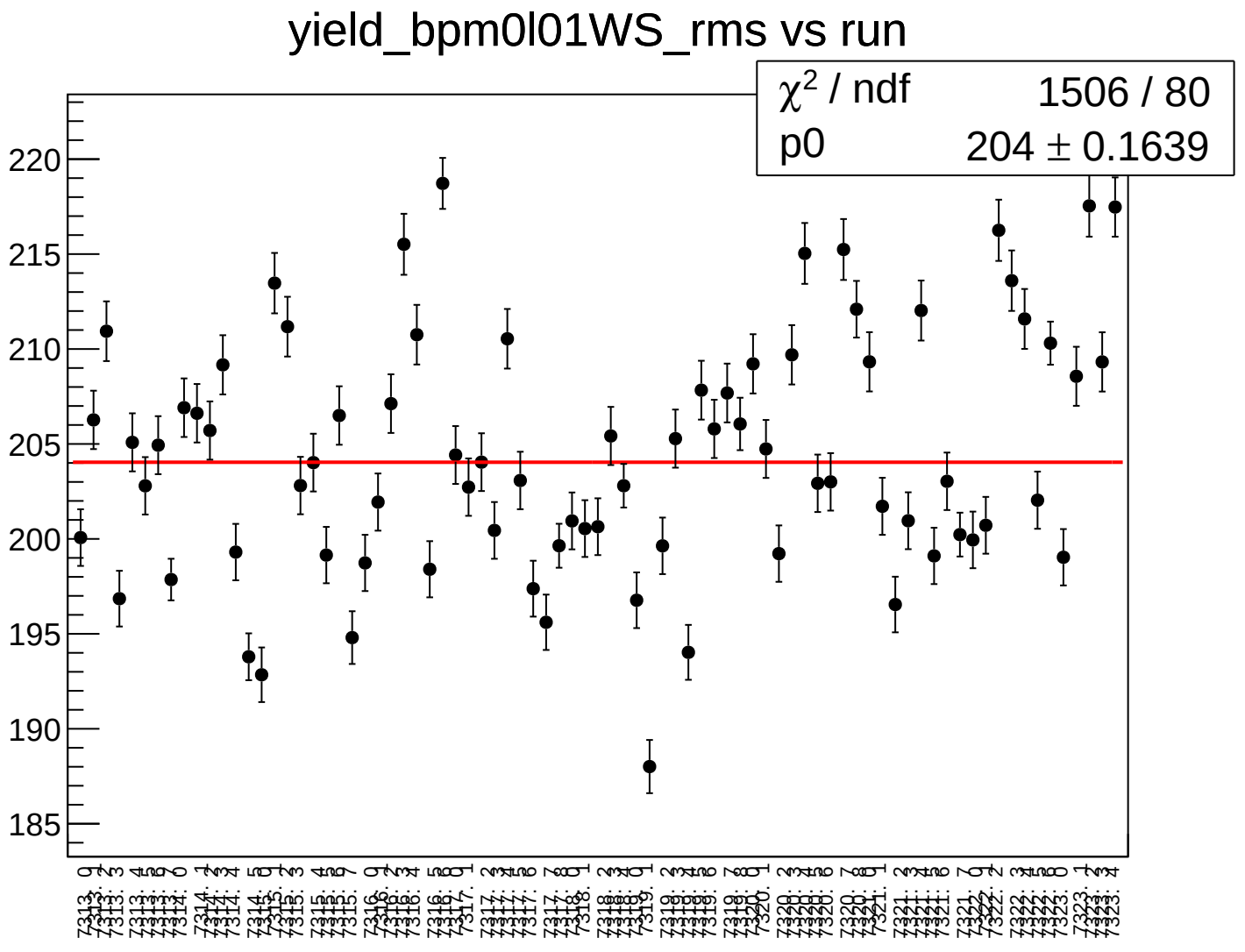

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.589e+04 / 80
p0 1.381e+05 ± 0.2669
138.16
138.14
138.12
138.1
138.08
138.06
138.04
138.02
pull
Entries 81
Mean 1792
Std Dev 1749
30
20
10
0
−10
−20
−30

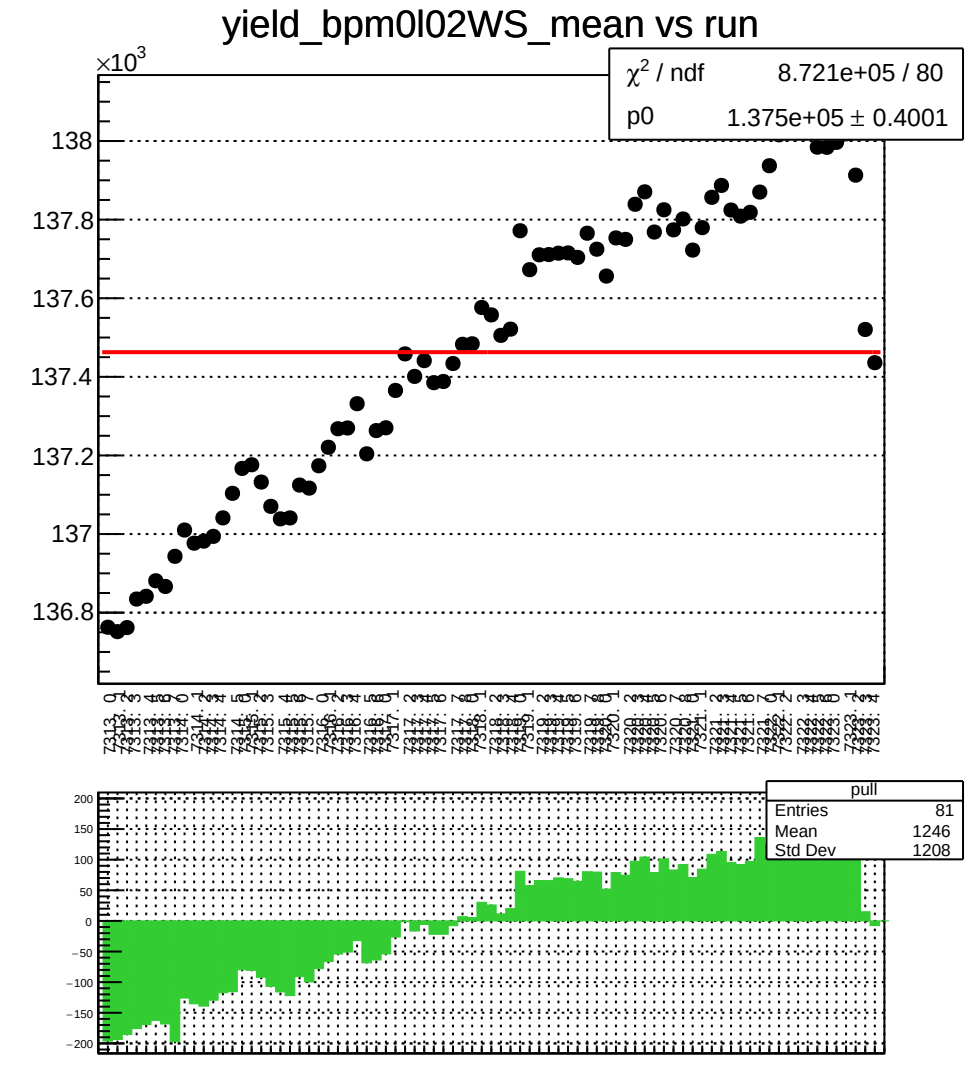

pull1D
Entries 81
Mean −0.4464
Std Dev 5.289
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

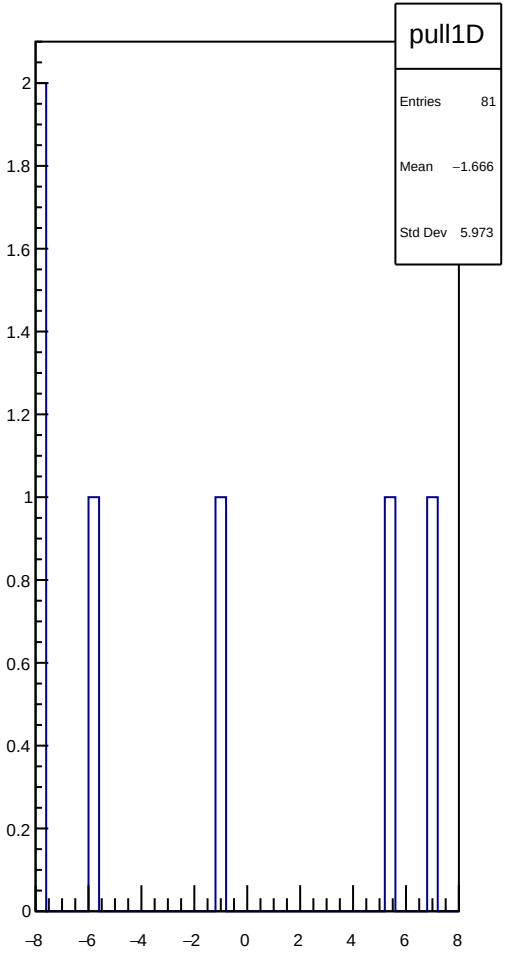

yield_bpm0i01aWS_rms vs run
χ^2 / ndf 1099 / 80
p0 235 ± 0.1888
250
245
240
235
230
225
220

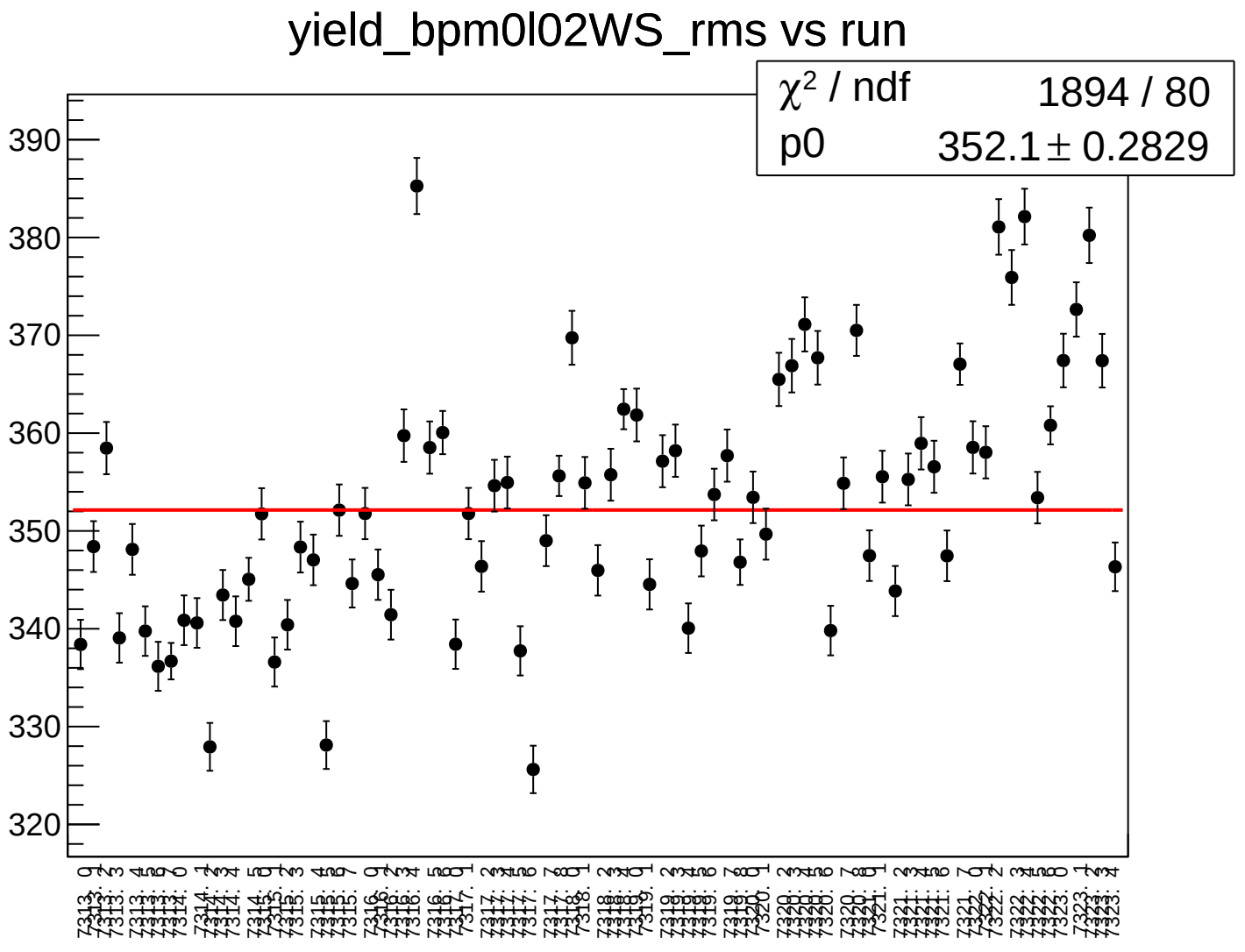

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.107e+04 / 80
p0 1.278e+05 ± 0.2318
128
127.95
127.9
127.85
127.8
127.75
127.7
pull
Entries 81
Mean 411.6
Std Dev 359.9
80
60
40
20
0
−20
−40
−60

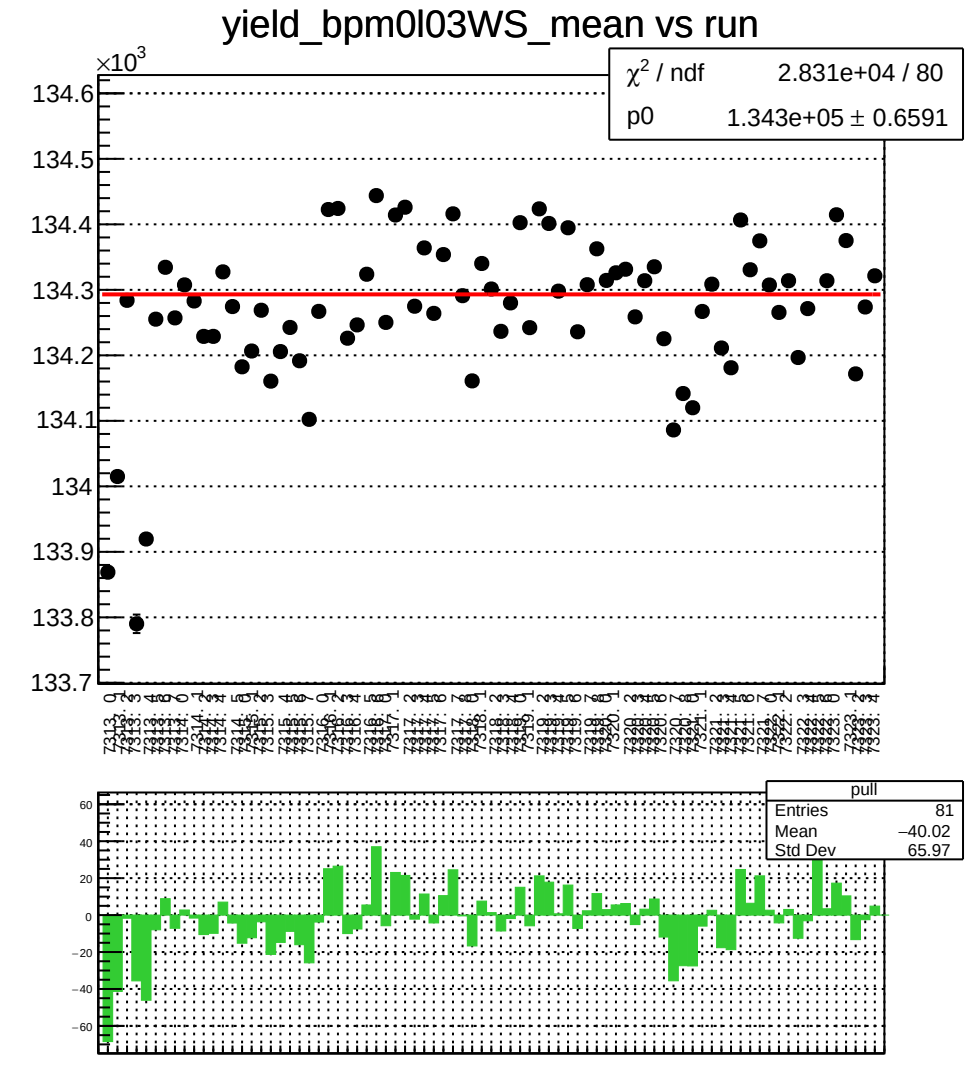

pull1D
Entries 81
Mean 0.9897
Std Dev 5.213
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

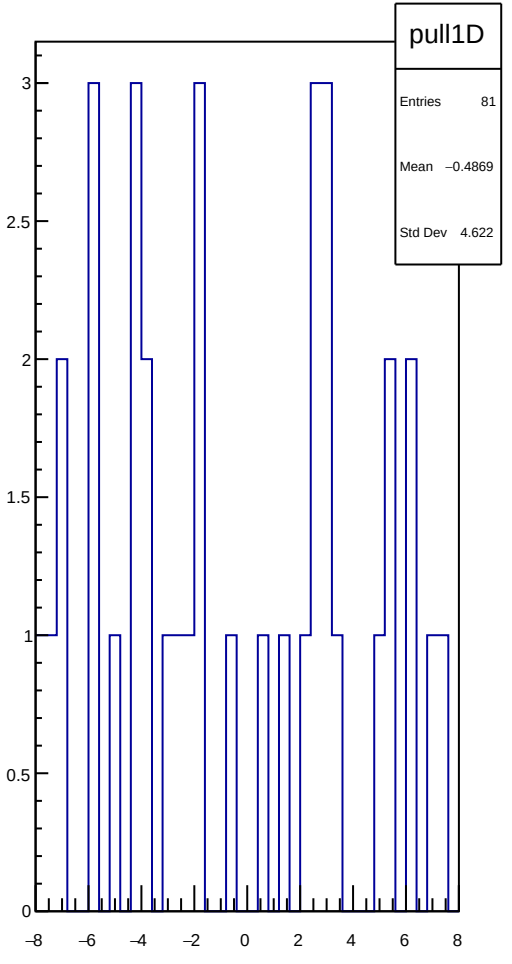

yield_bpm0l01WS_rms vs run
χ² / ndf 1506 / 80
p0 204 ± 0.1639
220
215
210
205
200
195
190
185

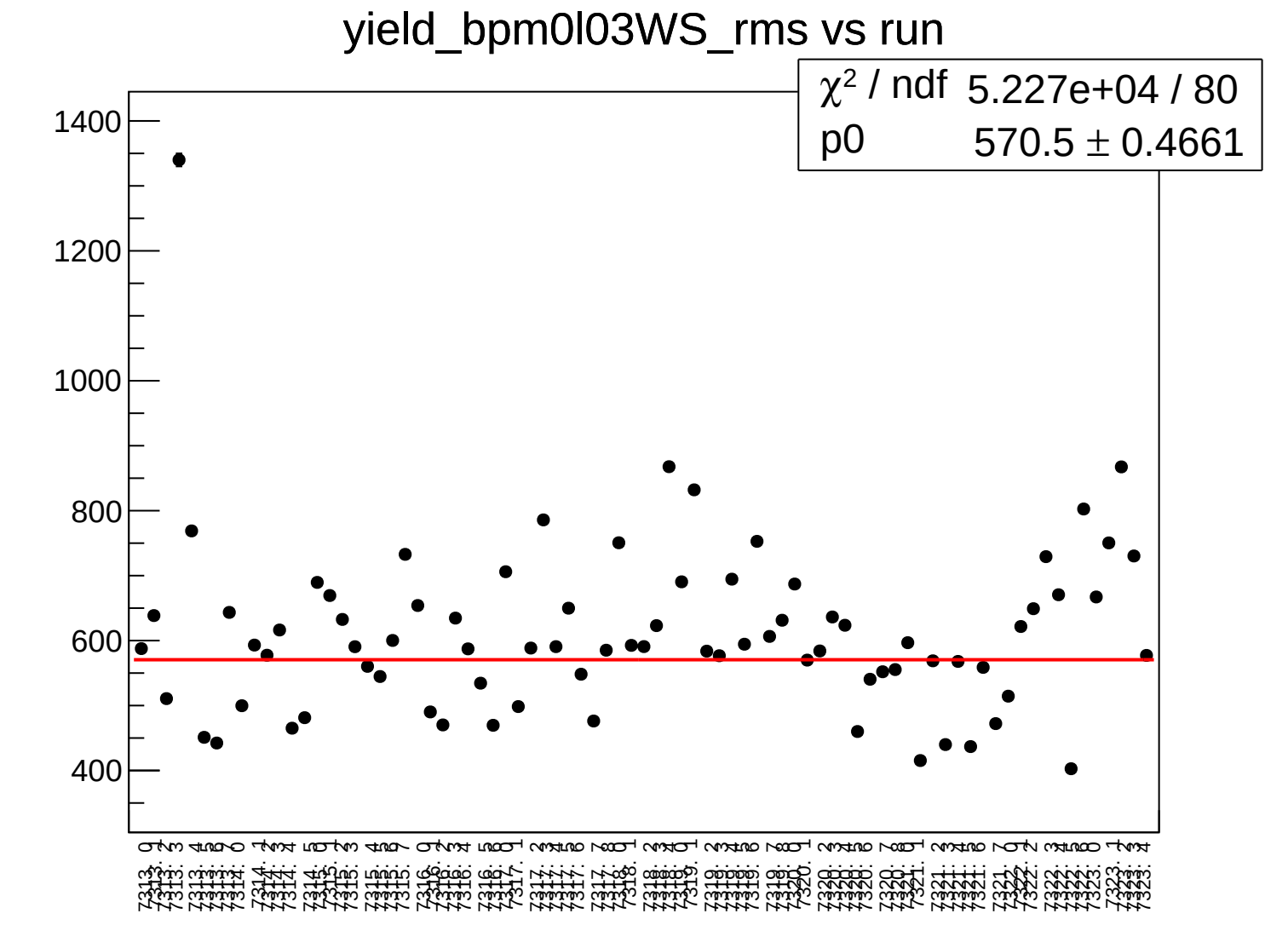

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 8.721e+05 / 80
p0 1.375e+05 ± 0.4001
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 81
Mean 1246
Std Dev 1208
200
150
100
50
0
−50
−100
−150
−200

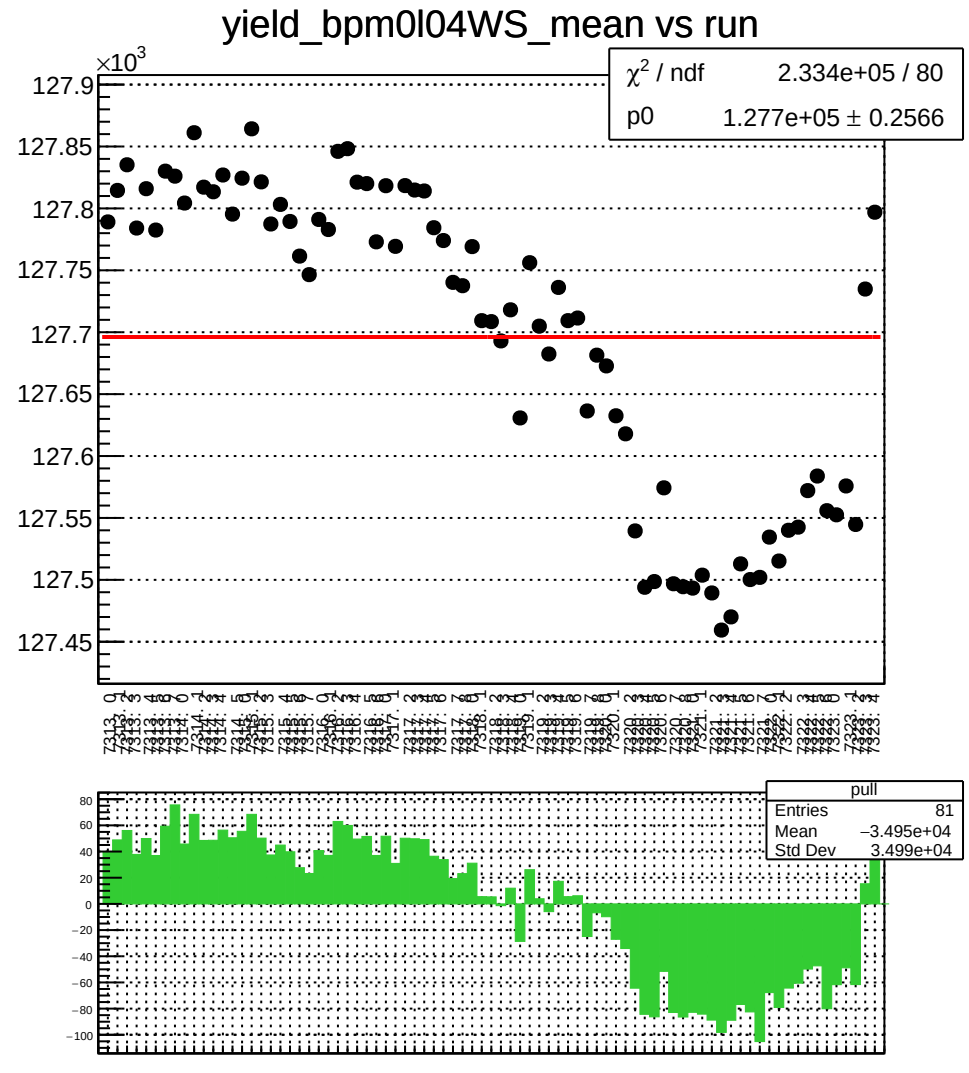

pull1D
Entries 81
Mean −1.666
Std Dev 5.973
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

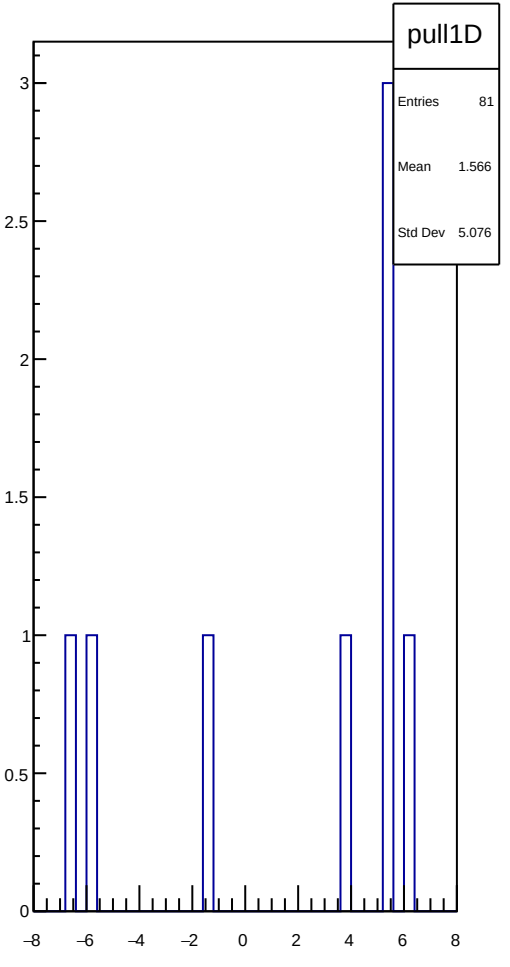

yield_bpm0l02WS_rms vs run
χ² / ndf 1894 / 80
p0 352.1 ± 0.2829
390
380
370
360
350
340
330
320

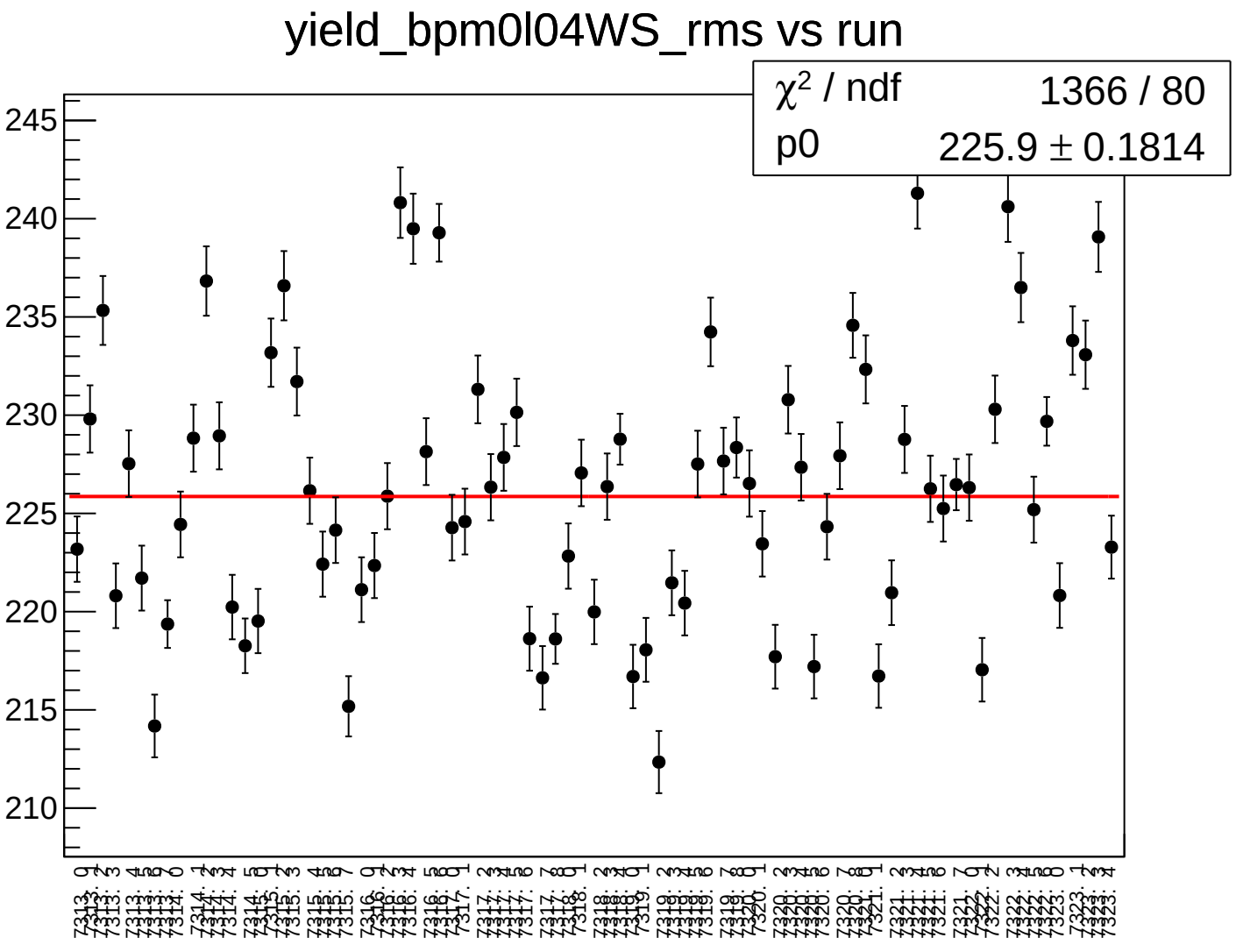

yield_bpm0l03WS_mean vs run
χ² / ndf 2.831e+04 / 80
p0 1.343e+05 ± 0.6591
×10³
134.6
134.5
134.4
134.3
134.2
134.1
134
133.9
133.8
133.7
pull
Entries 81
Mean −40.02
Std Dev 65.97
60
40
20
0
−20
−40
−60

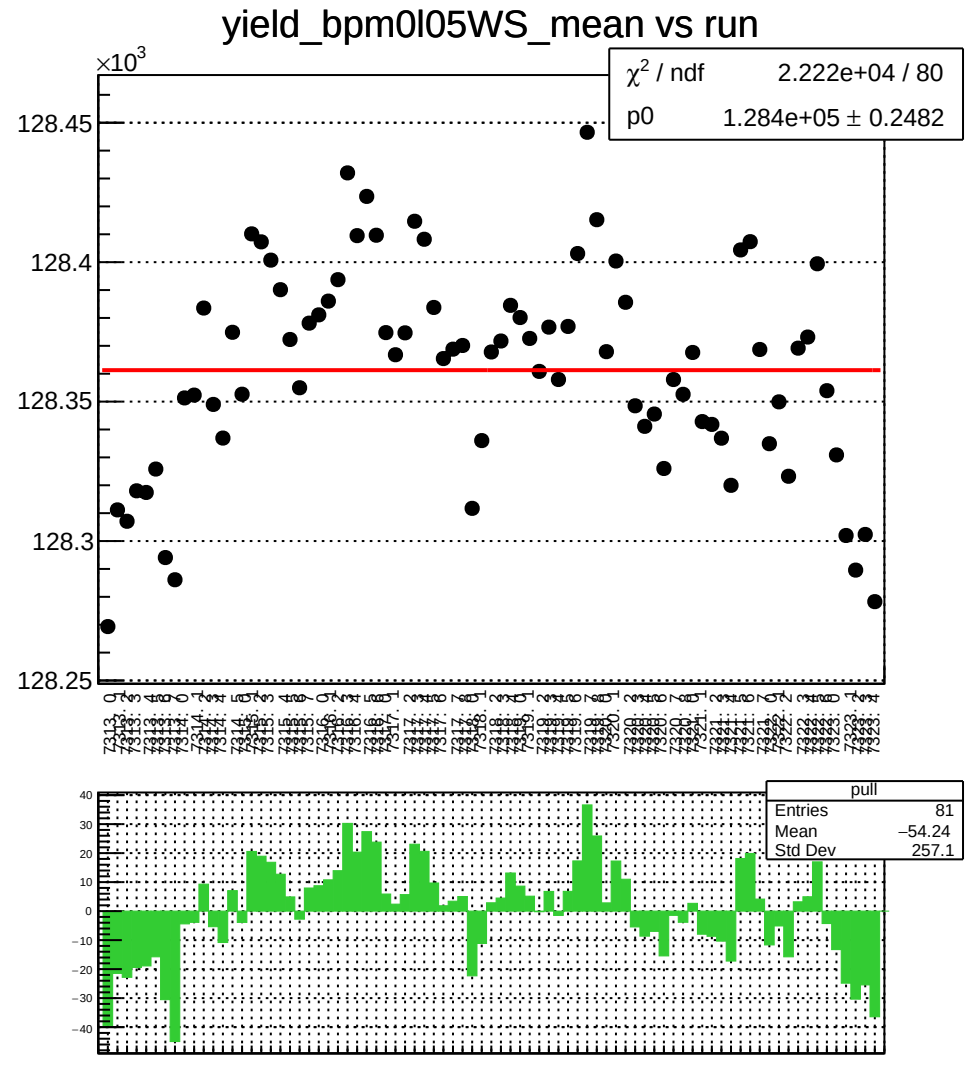

pull1D
Entries 81
Mean −0.4869
Std Dev 4.622
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

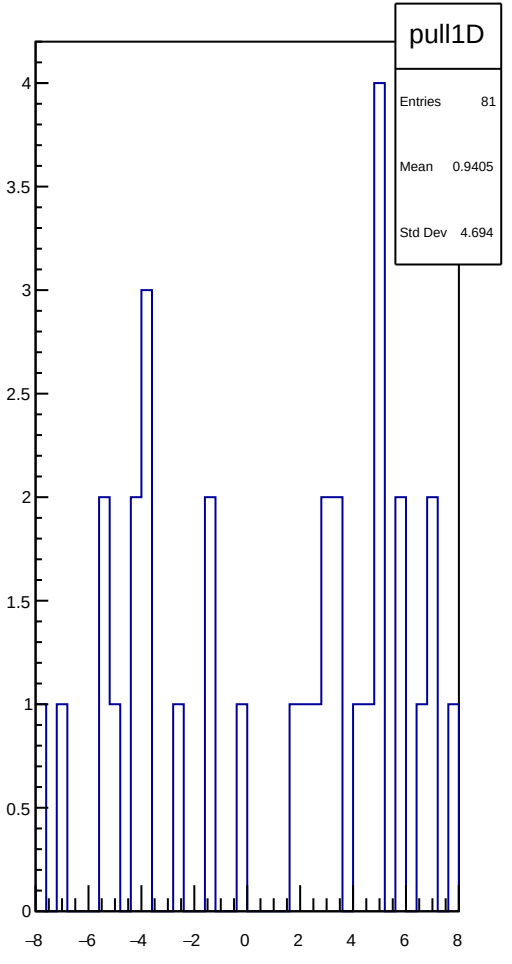

yield_bpm0l03WS_rms vs run
χ² / ndf 5.227e+04 / 80
p0 570.5 ± 0.4661
1400
1200
1000
800
600
400

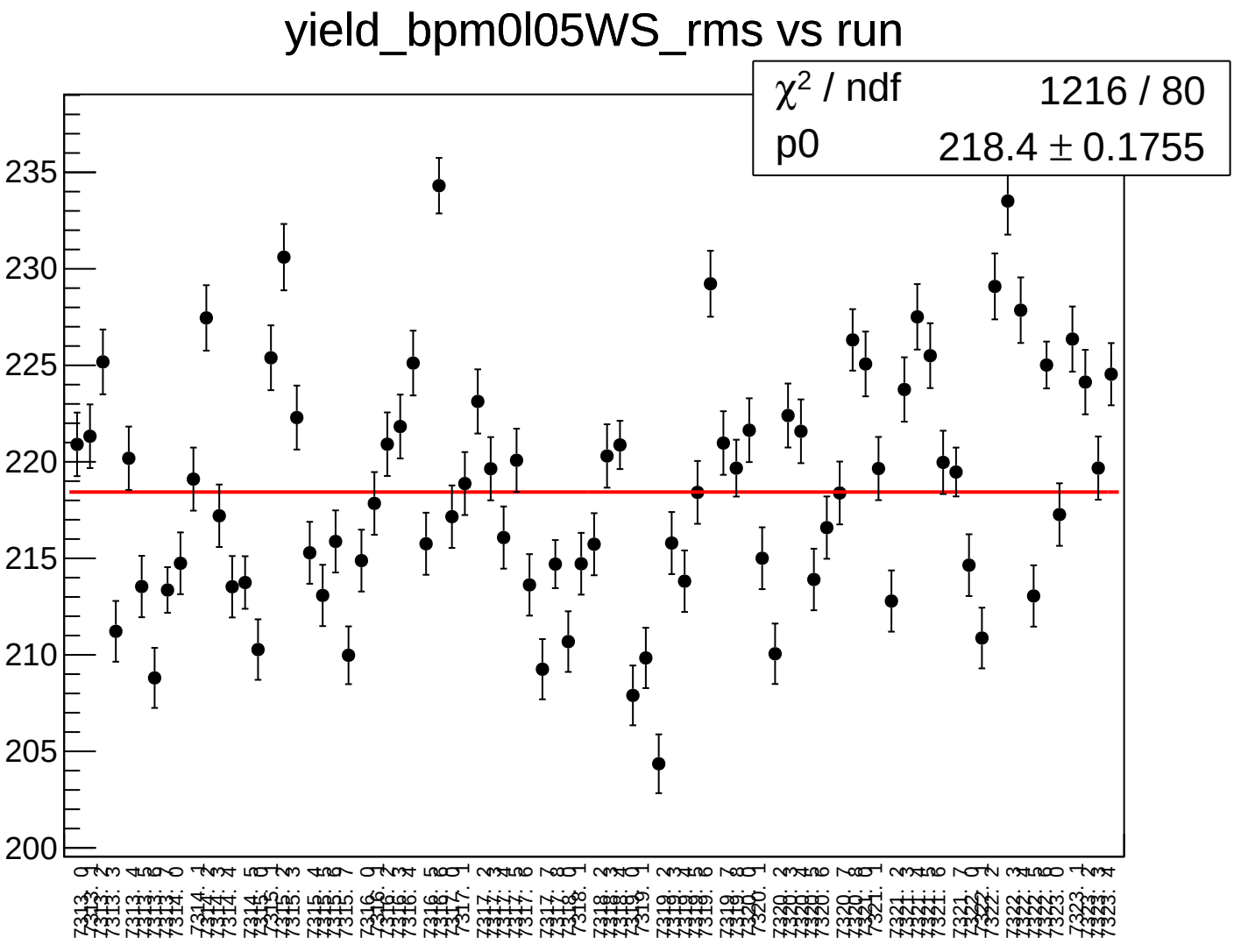

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.334e+05 / 80
p0 1.277e+05 ± 0.2566
127.9
127.85
127.8
127.75
127.7
127.65
127.6
127.55
127.5
127.45
pull
Entries 81
Mean −3.495e+04
Std Dev 3.499e+04
80
60
40
20
0
−20
−40
−60
−80
−100

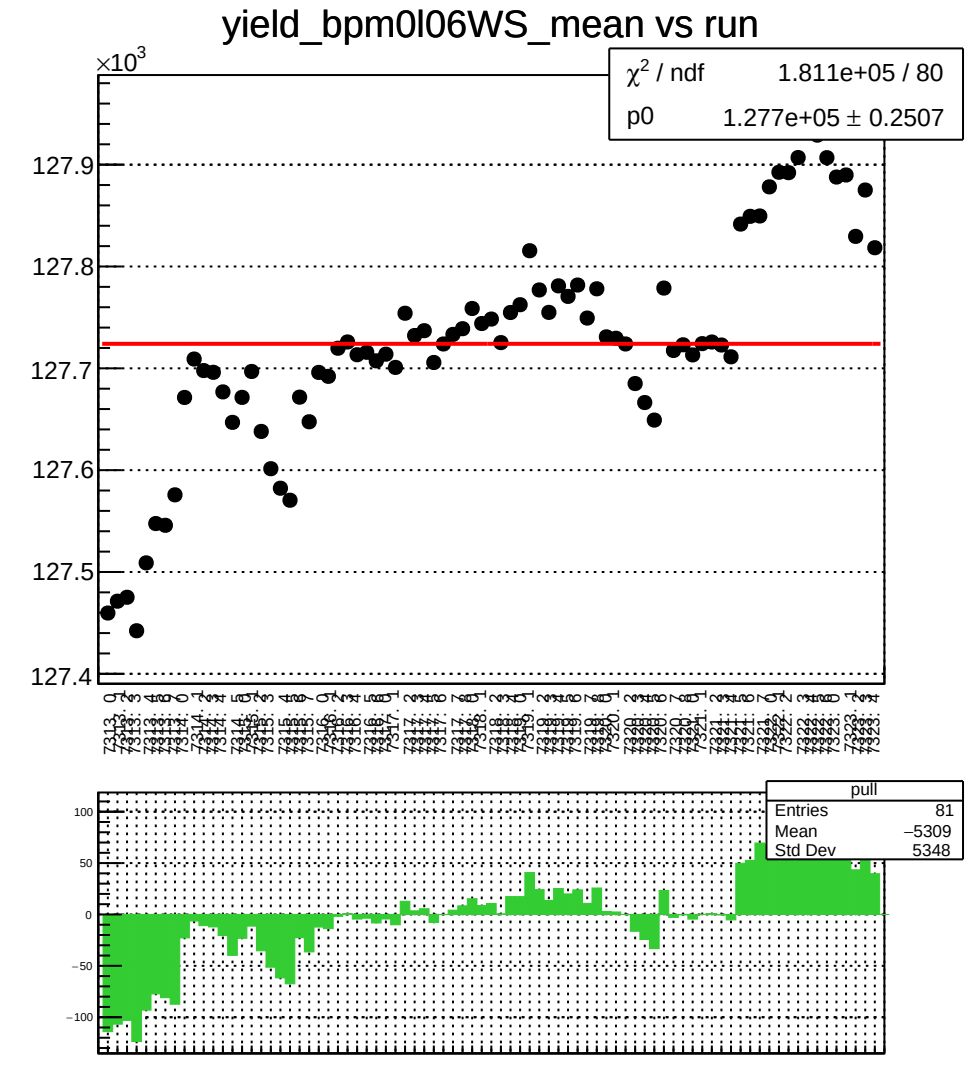

pull1D
Entries 81
Mean 1.566
Std Dev 5.076
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

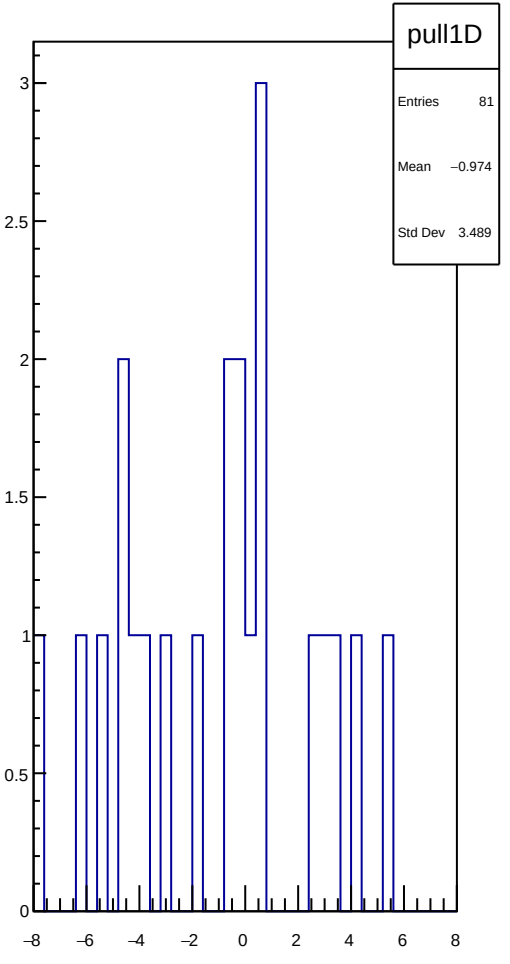

yield_bpm0l04WS_rms vs run
χ² / ndf 1366 / 80
p0 225.9 ± 0.1814
245
240
235
230
225
220
215
210

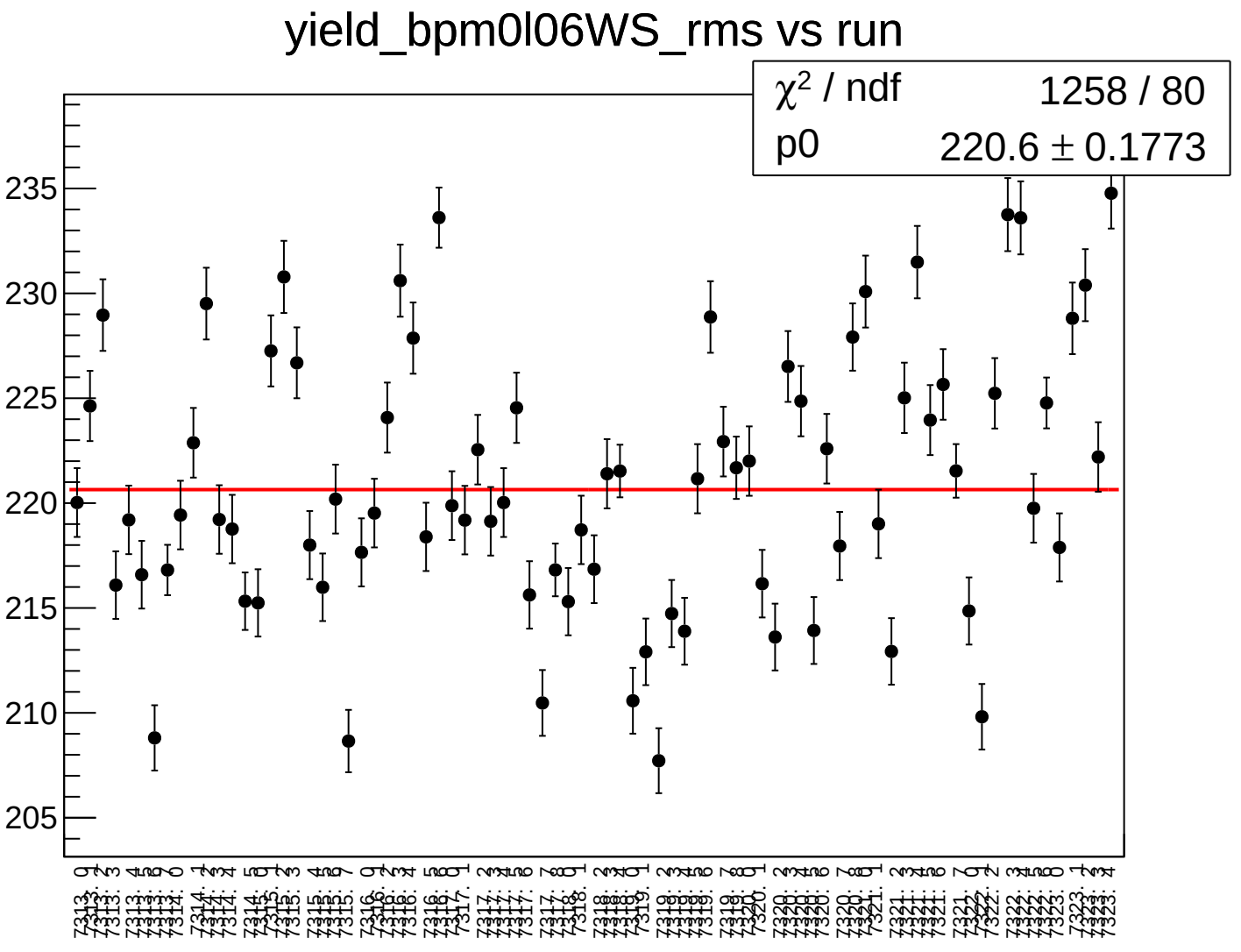

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.222e+04 / 80
p0 1.284e+05 ± 0.2482
128.45
128.4
128.35
128.3
128.25
pull
Entries 81
Mean −54.24
Std Dev 257.1
40
30
20
10
0
−10
−20
−30
−40

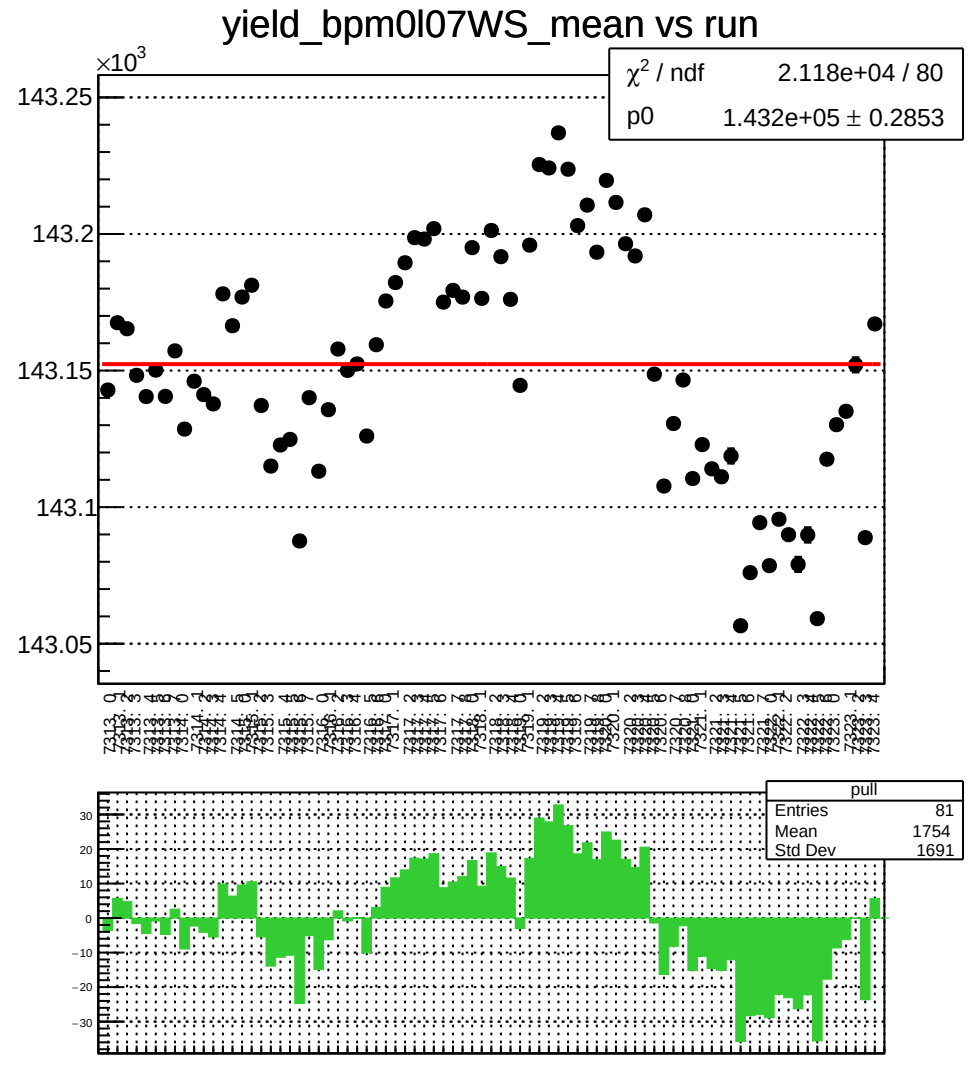

pull1D
Entries 81
Mean 0.9405
Std Dev 4.694
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

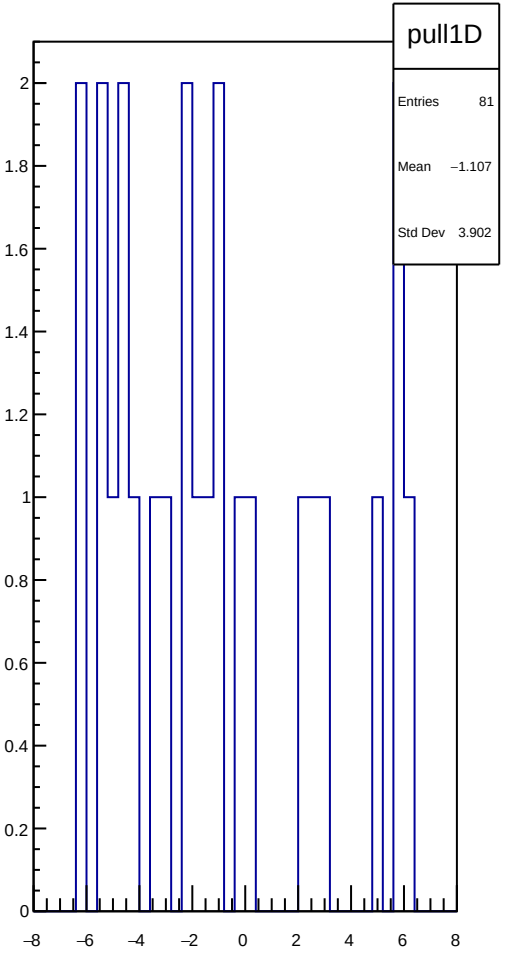

yield_bpm0l05WS_rms vs run
χ² / ndf 1216 / 80
p0 218.4 ± 0.1755
235
230
225
220
215
210
205
200

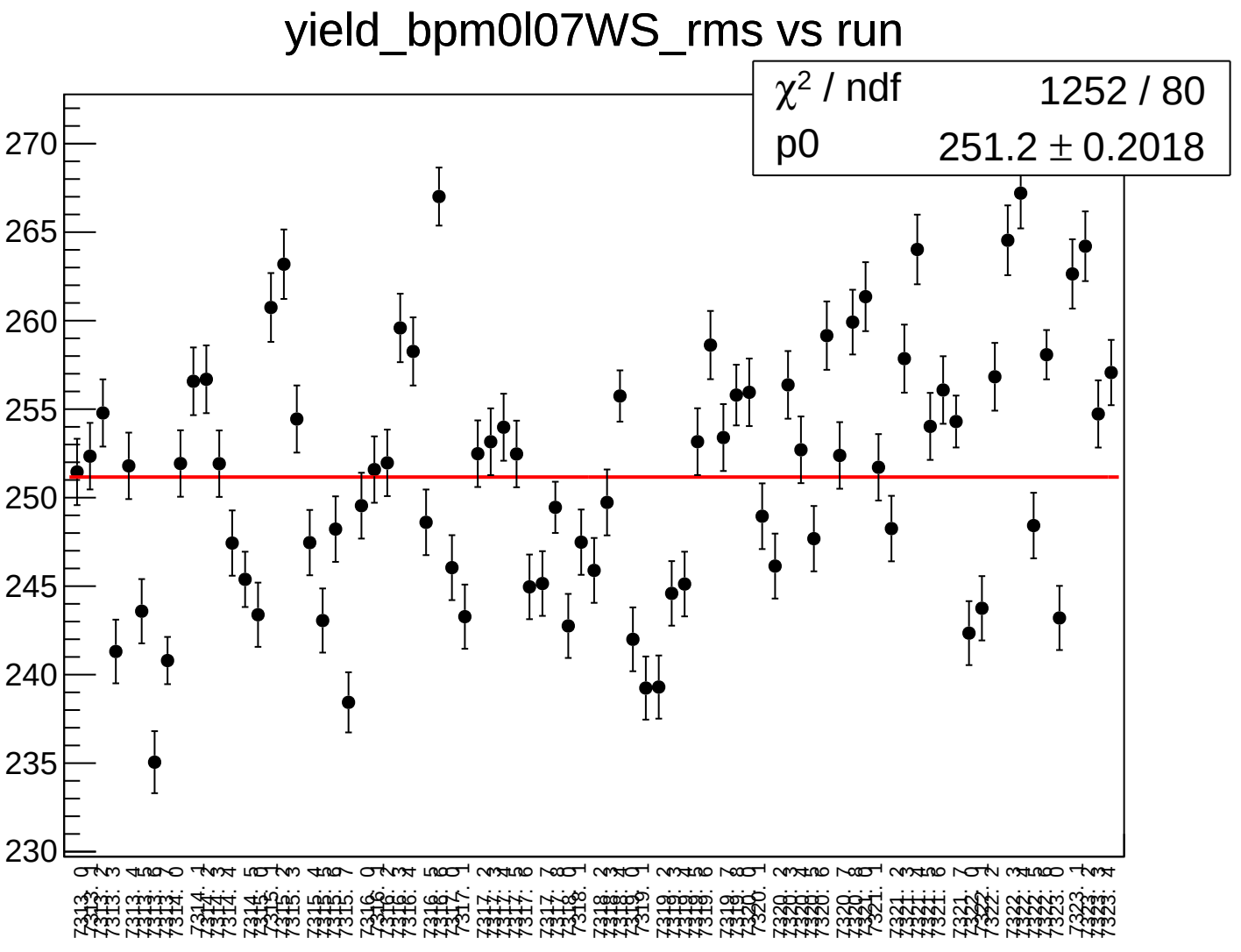

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.811e+05 / 80
p0 1.277e+05 ± 0.2507
127.9
127.8
127.7
127.6
127.5
127.4
pull
Entries 81
Mean −5309
Std Dev 5348
100
50
0
−50
−100

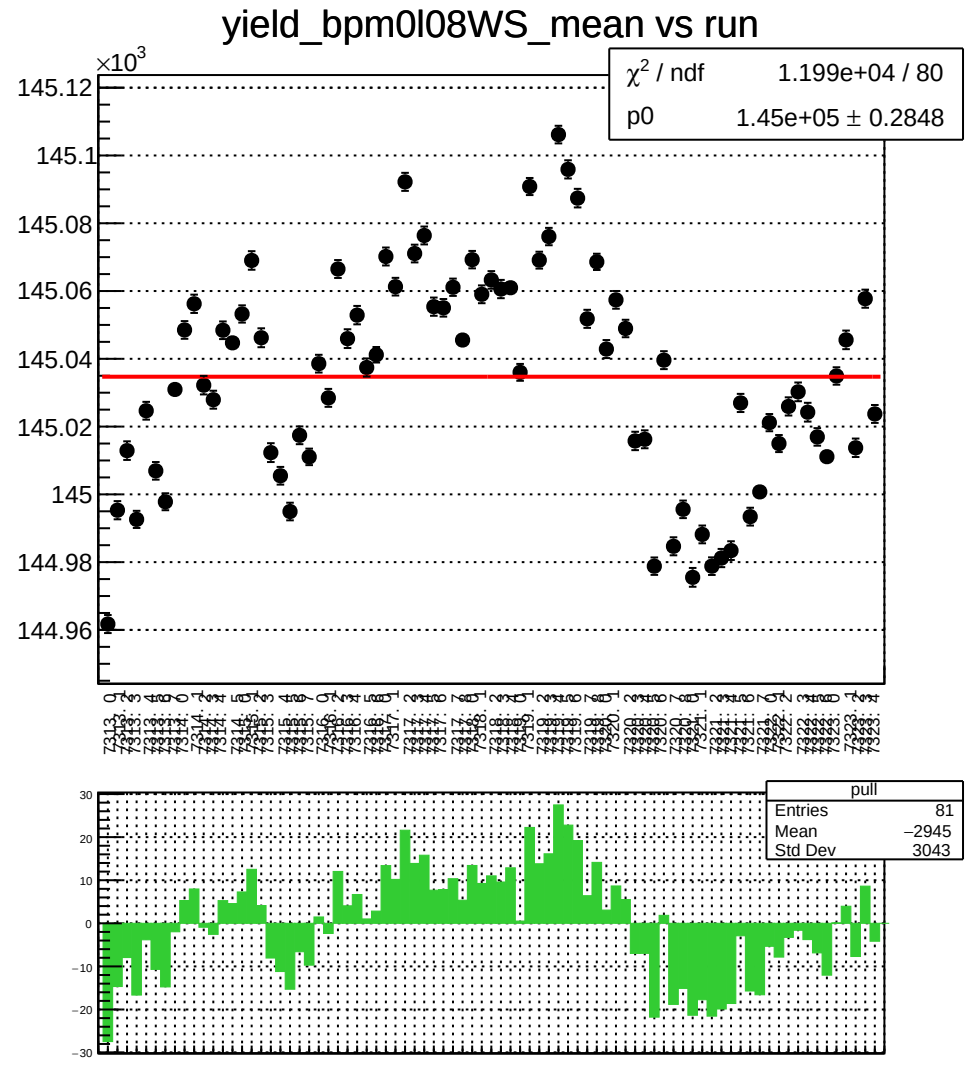

pull1D
Entries 81
Mean −0.974
Std Dev 3.489
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

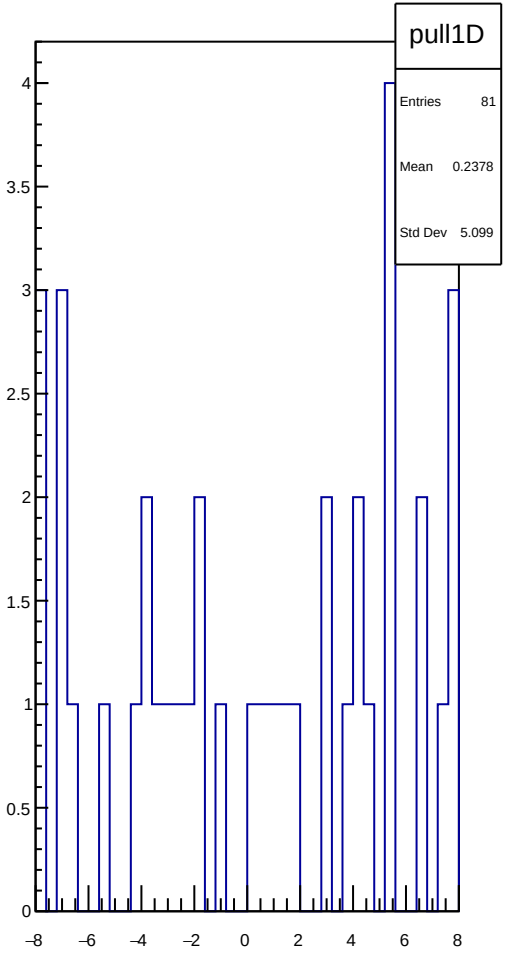

yield_bpm0l06WS_rms vs run
χ² / ndf 1258 / 80
p0 220.6 ± 0.1773
235
230
225
220
215
210
205

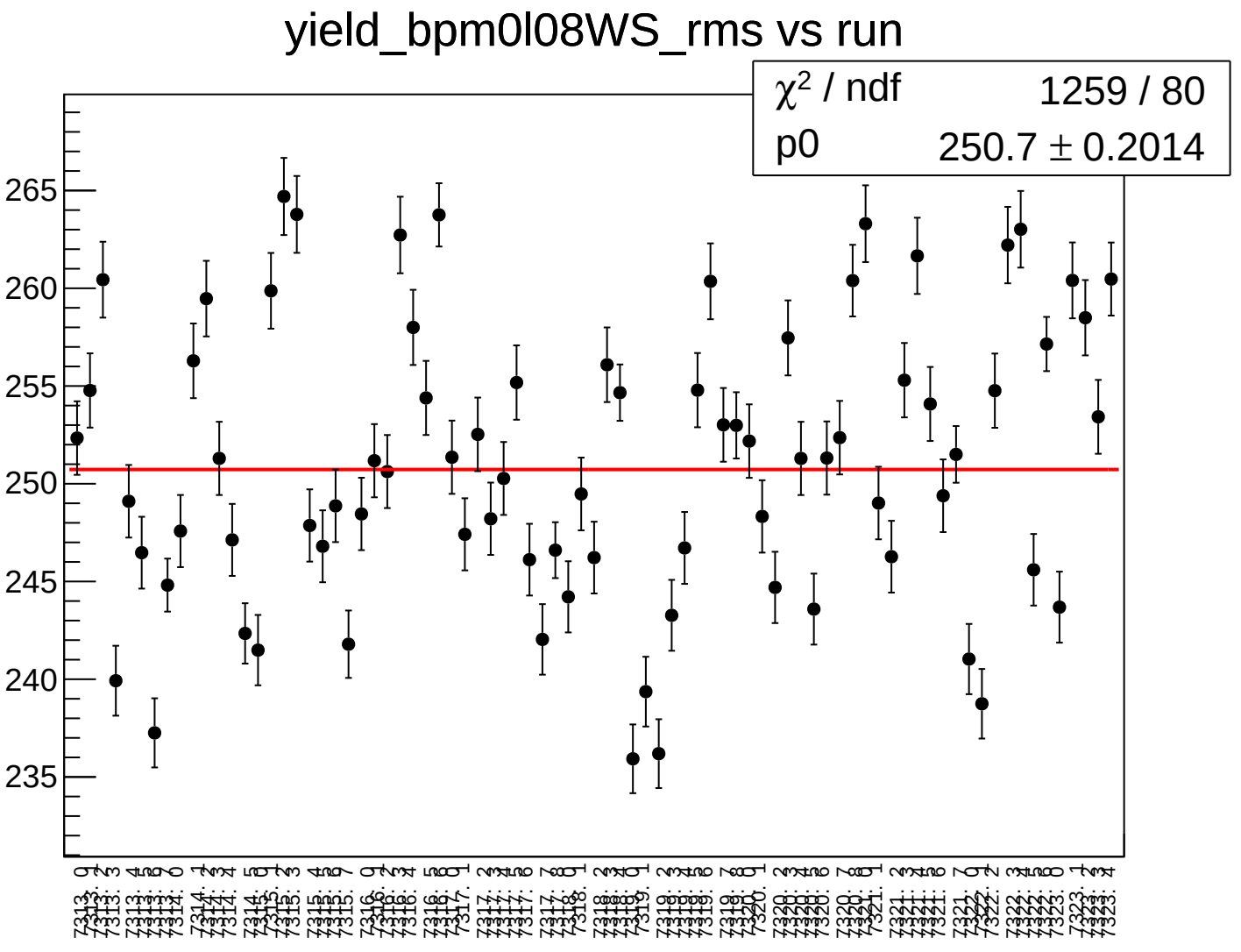

yield_bpm0l07WS_mean vs run
×10^3
143.25
143.2
143.15
143.1
143.05
χ² / ndf 2.118e+04 / 80
p0 1.432e+05 ± 0.2853
pull
Entries 81
Mean 1754
Std Dev 1691
30
20
10
0
−10
−20
−30

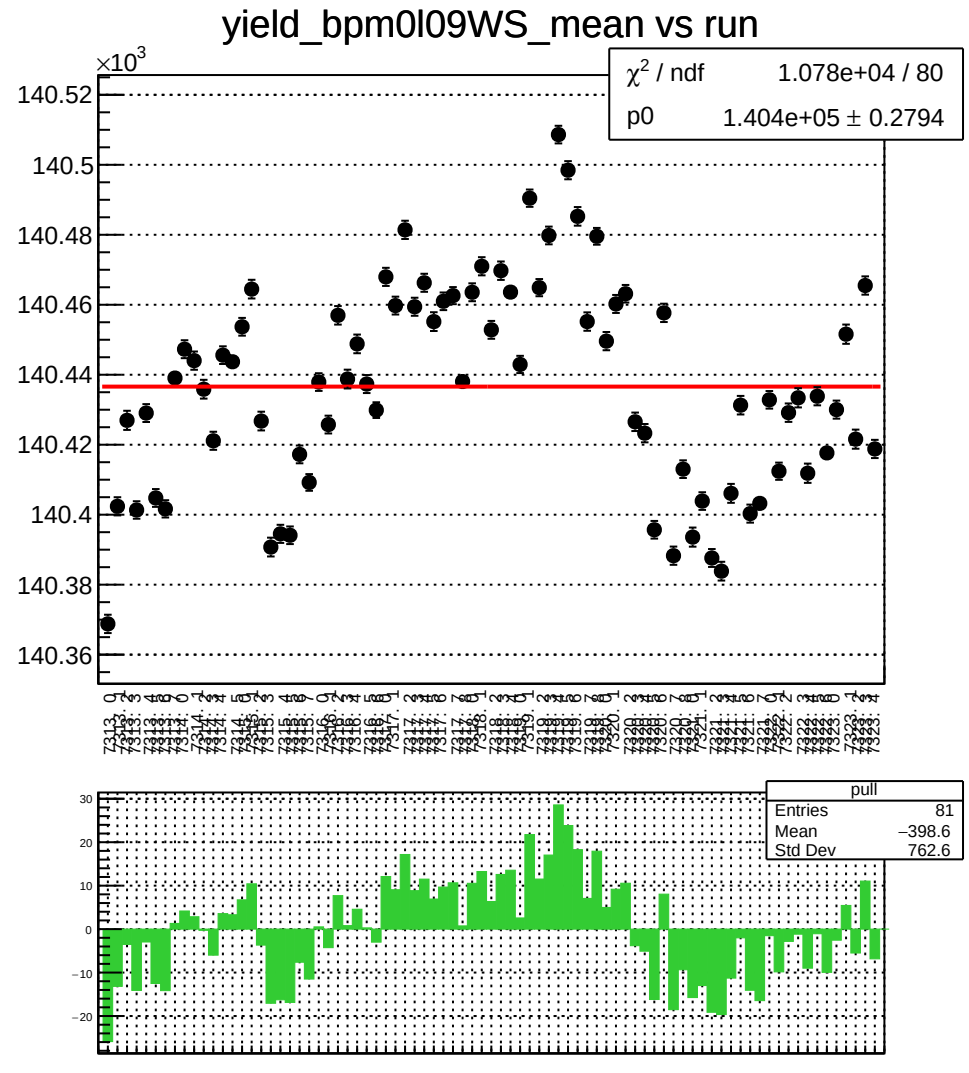

pull1D
Entries 81
Mean −1.107
Std Dev 3.902
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

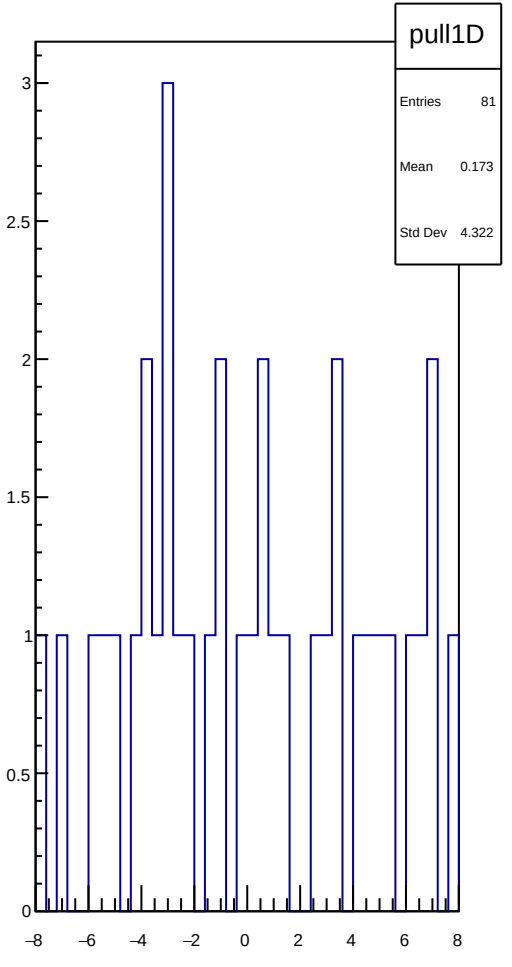

yield_bpm0l07WS_rms vs run
χ² / ndf 1252 / 80
p0 251.2 ± 0.2018
270
265
260
255
250
245
240
235
230

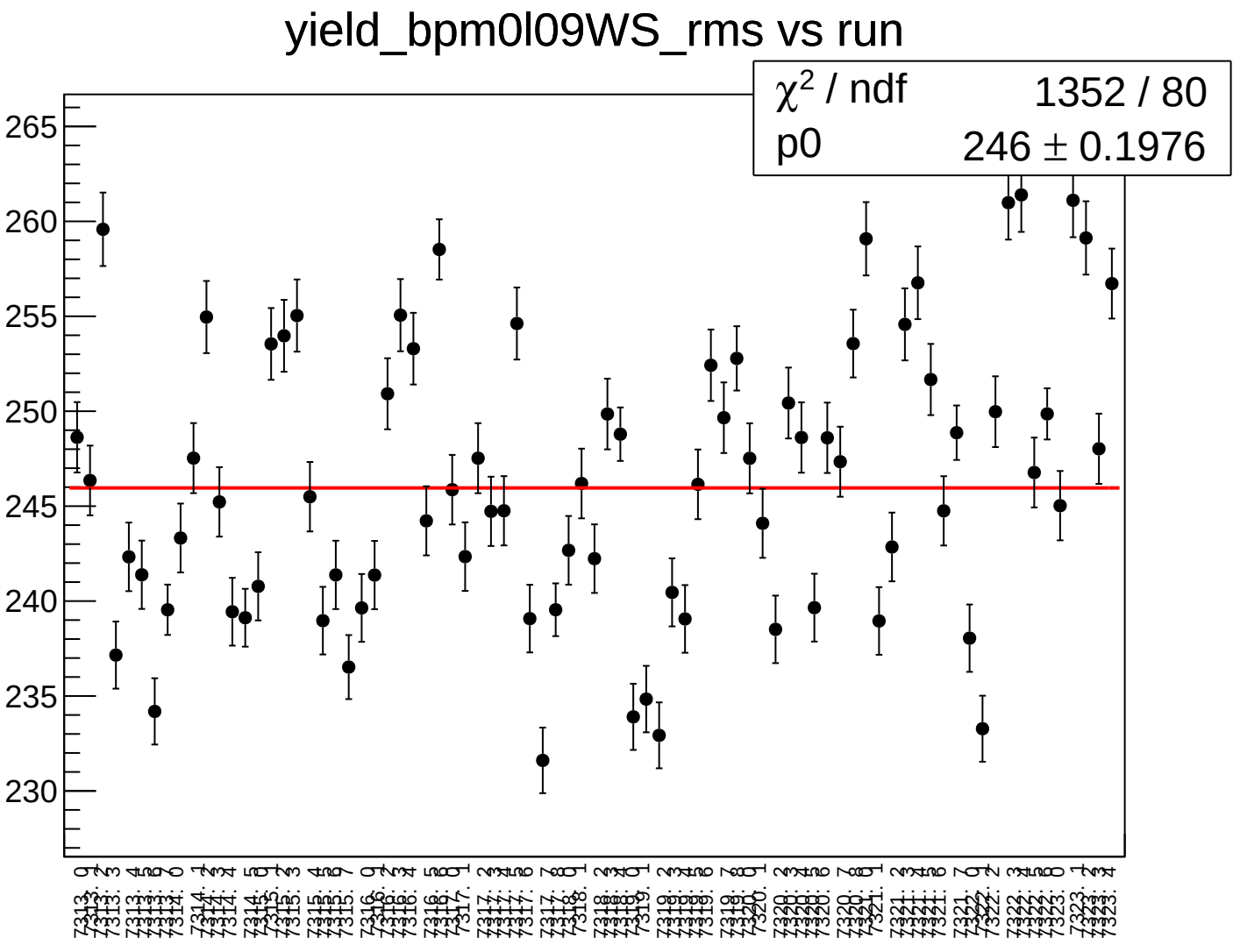

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.199e+04 / 80
p0 1.45e+05 ± 0.2848
145.12
145.1
145.08
145.06
145.04
145.02
145
144.98
144.96
pull
Entries 81
Mean −2945
Std Dev 3043
30
20
10
0
−10
−20
−30

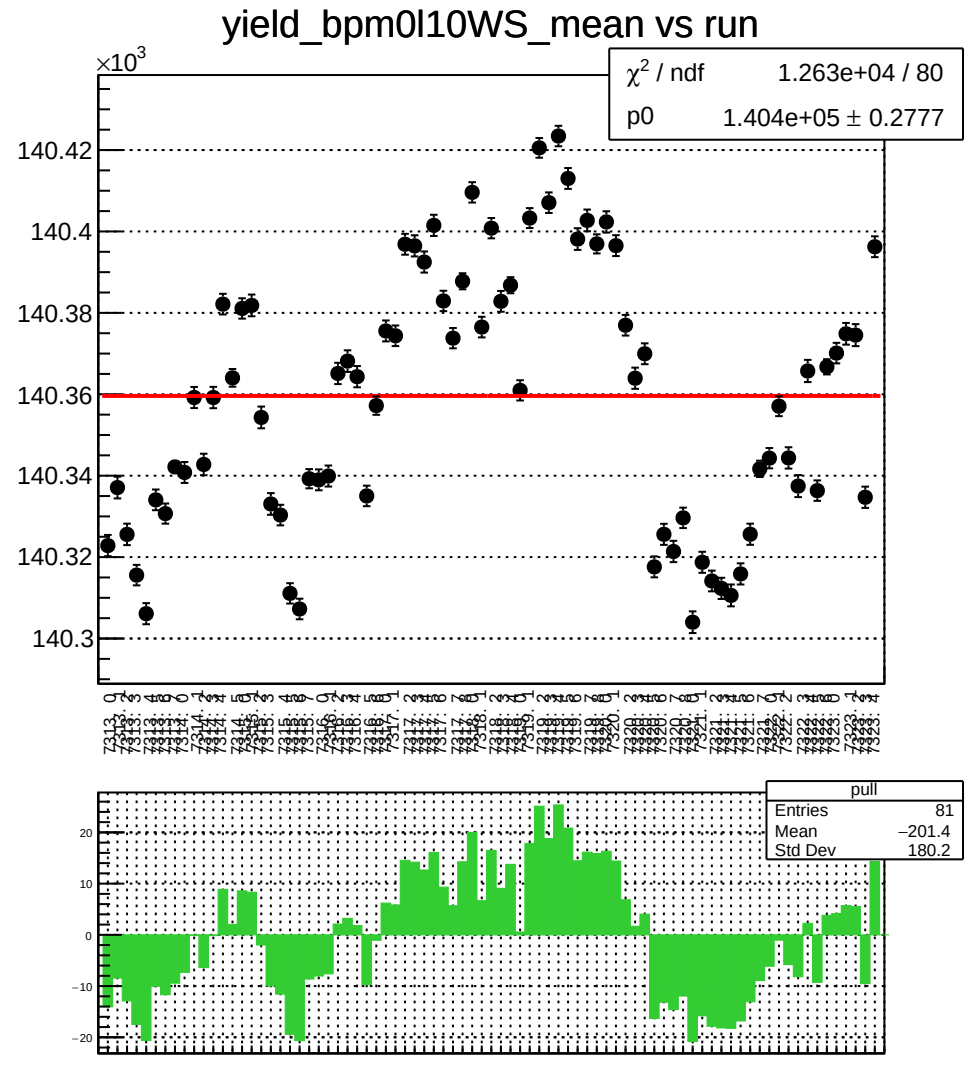

pull1D
Entries 81
Mean 0.2378
Std Dev 5.099
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

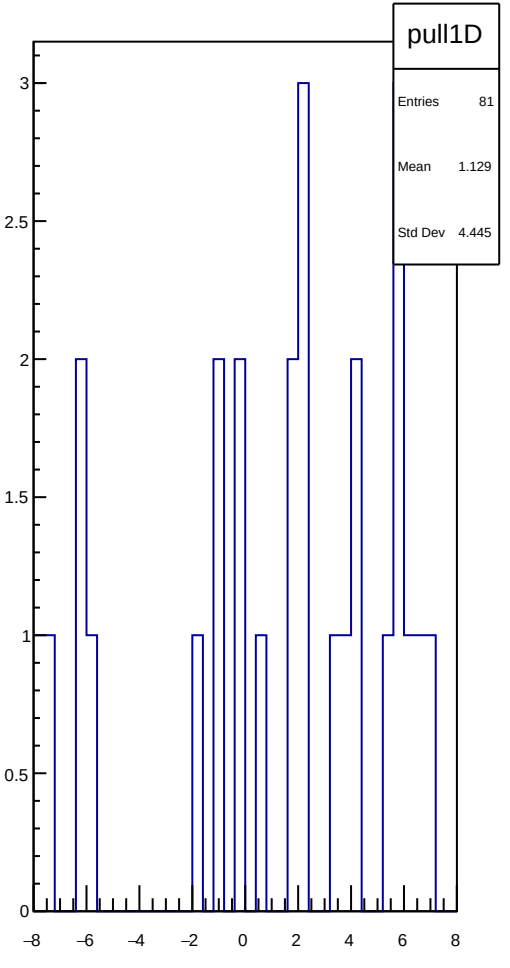

yield_bpm0l08WS_rms vs run
χ² / ndf 1259 / 80
p0 250.7 ± 0.2014
265
260
255
250
245
240
235

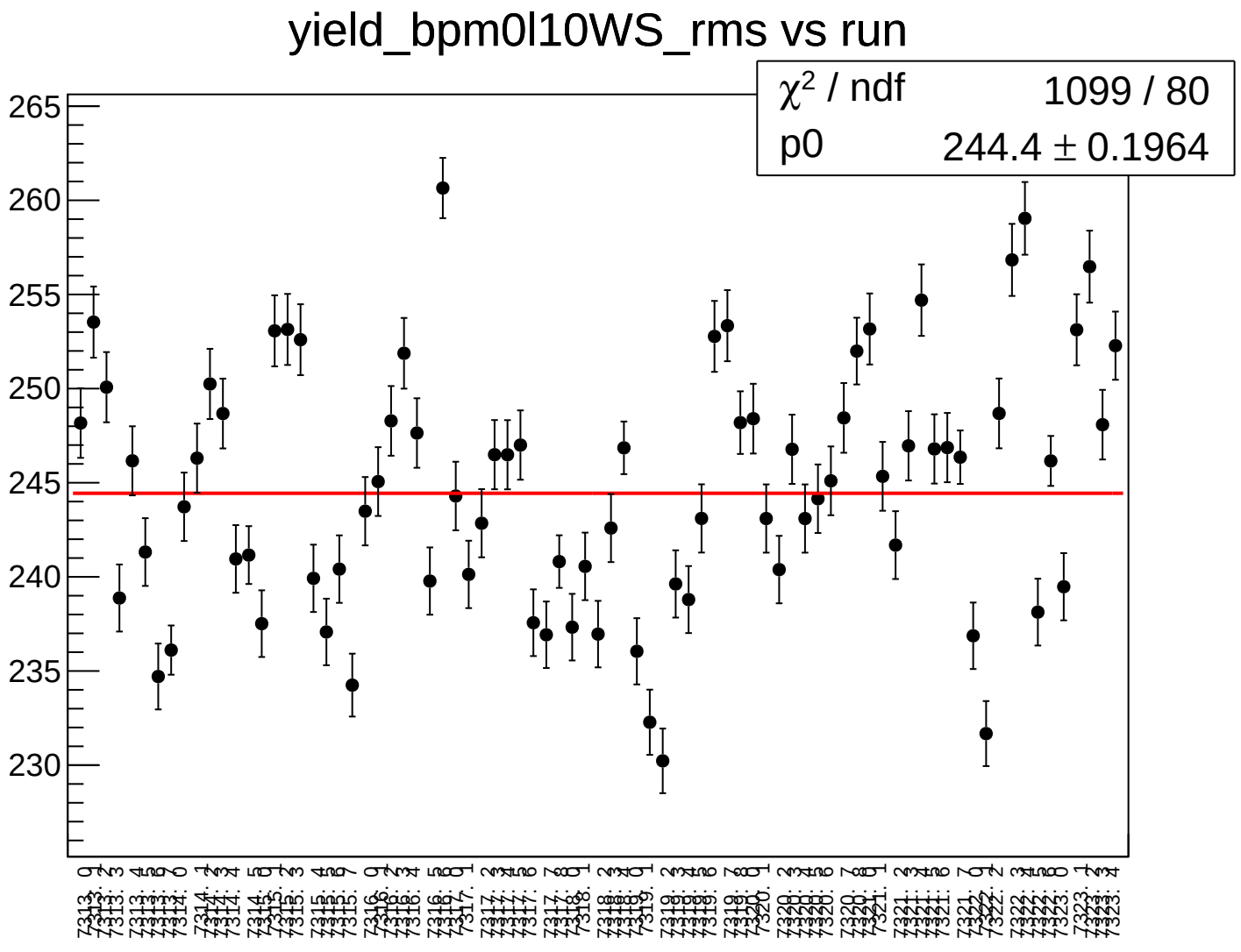

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.078e+04 / 80
p0 1.404e+05 ± 0.2794
140.52
140.5
140.48
140.46
140.44
140.42
140.4
140.38
140.36
pull
Entries 81
Mean −398.6
Std Dev 762.6
30
20
10
0
−10
−20

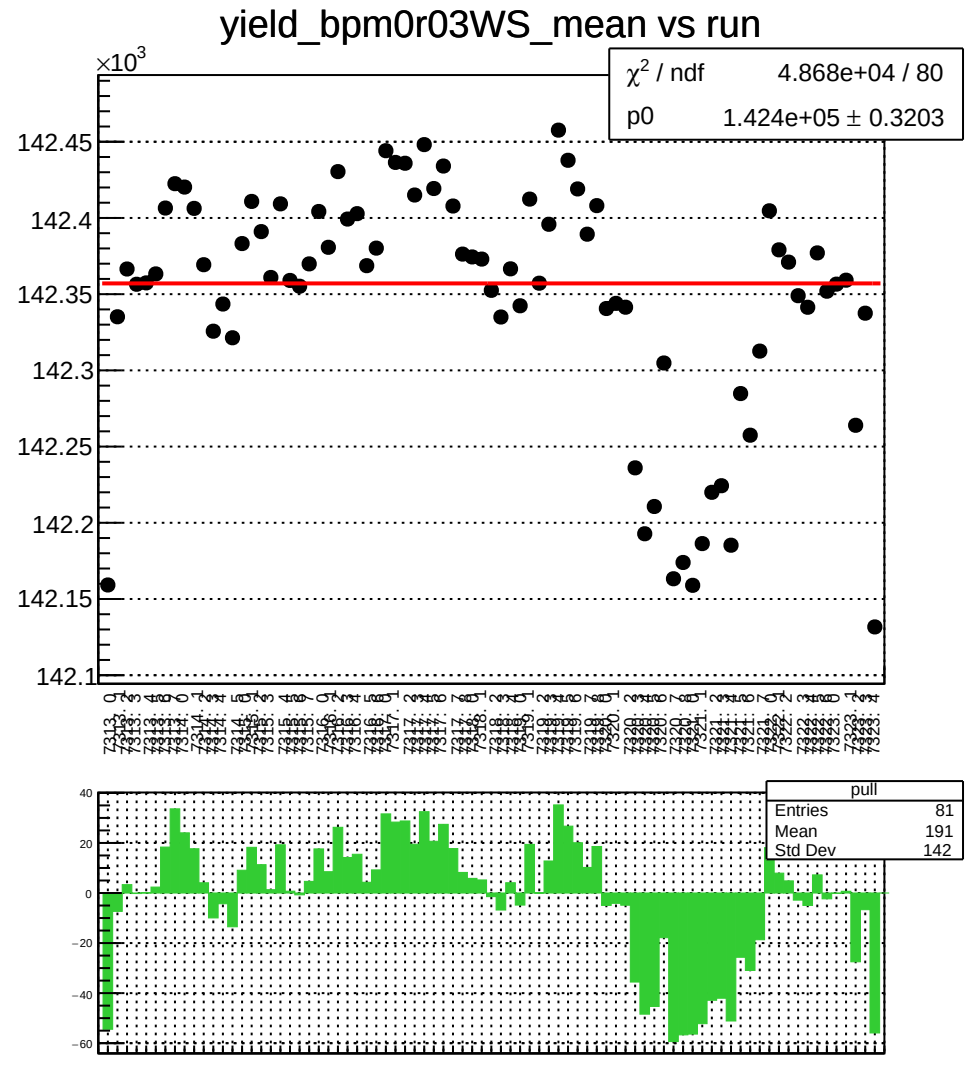

pull1D
Entries 81
Mean 0.173
Std Dev 4.322
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

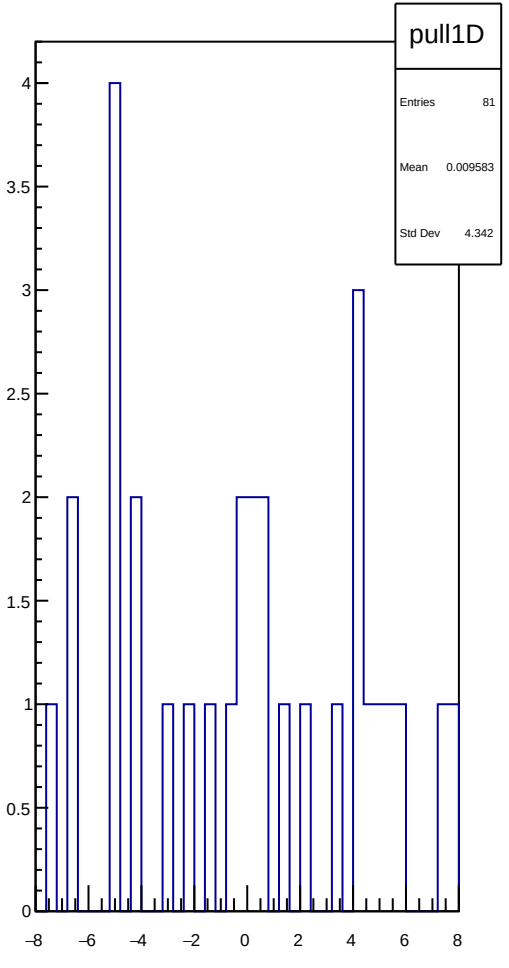

yield_bpm0l09WS_rms vs run
χ² / ndf 1352 / 80
p0 246 ± 0.1976
265
260
255
250
245
240
235
230

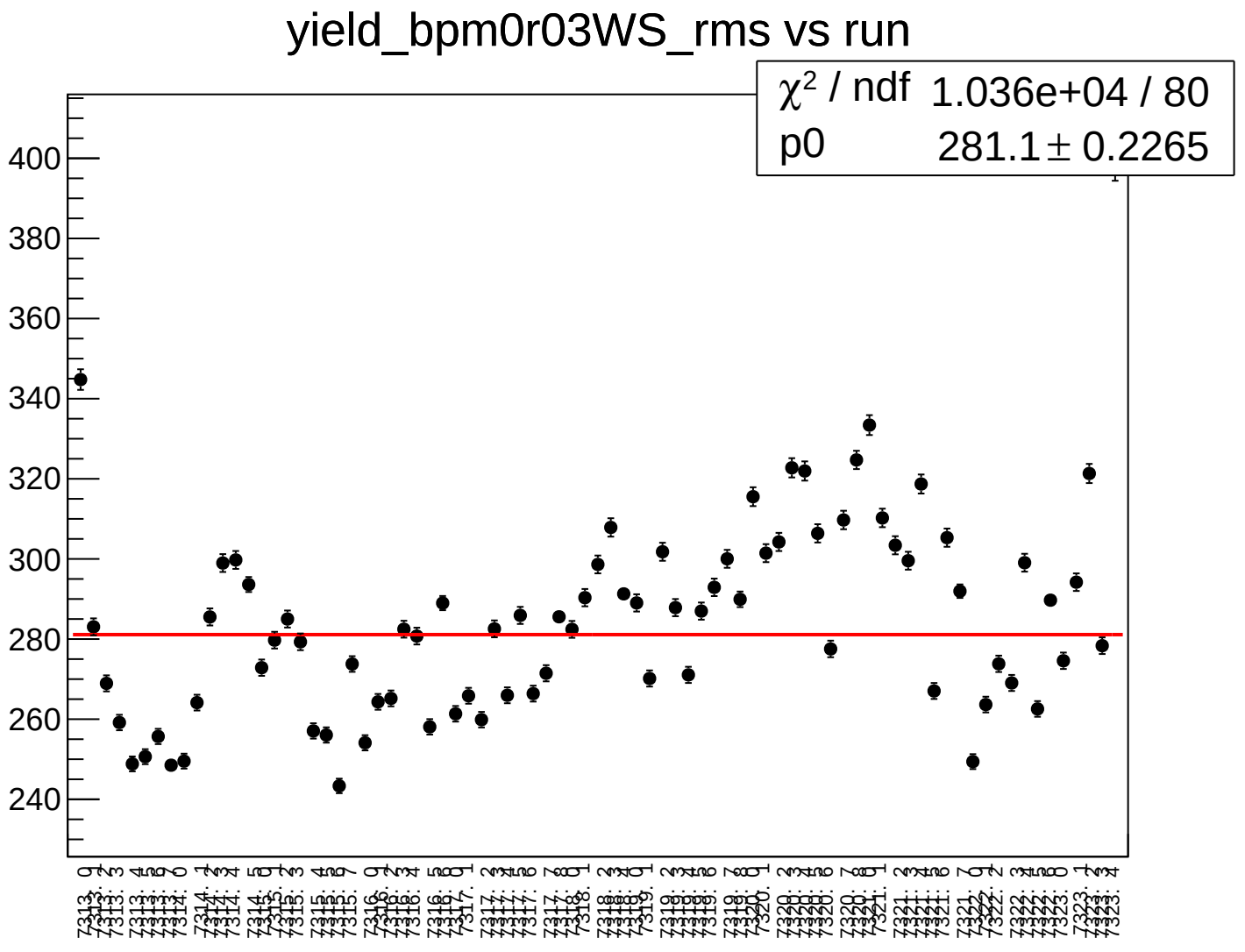

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.263e+04 / 80
p0 1.404e+05 ± 0.2777
140.42
140.4
140.38
140.36
140.34
140.32
140.3
pull
Entries 81
Mean −201.4
Std Dev 180.2
20
10
0
−10
−20

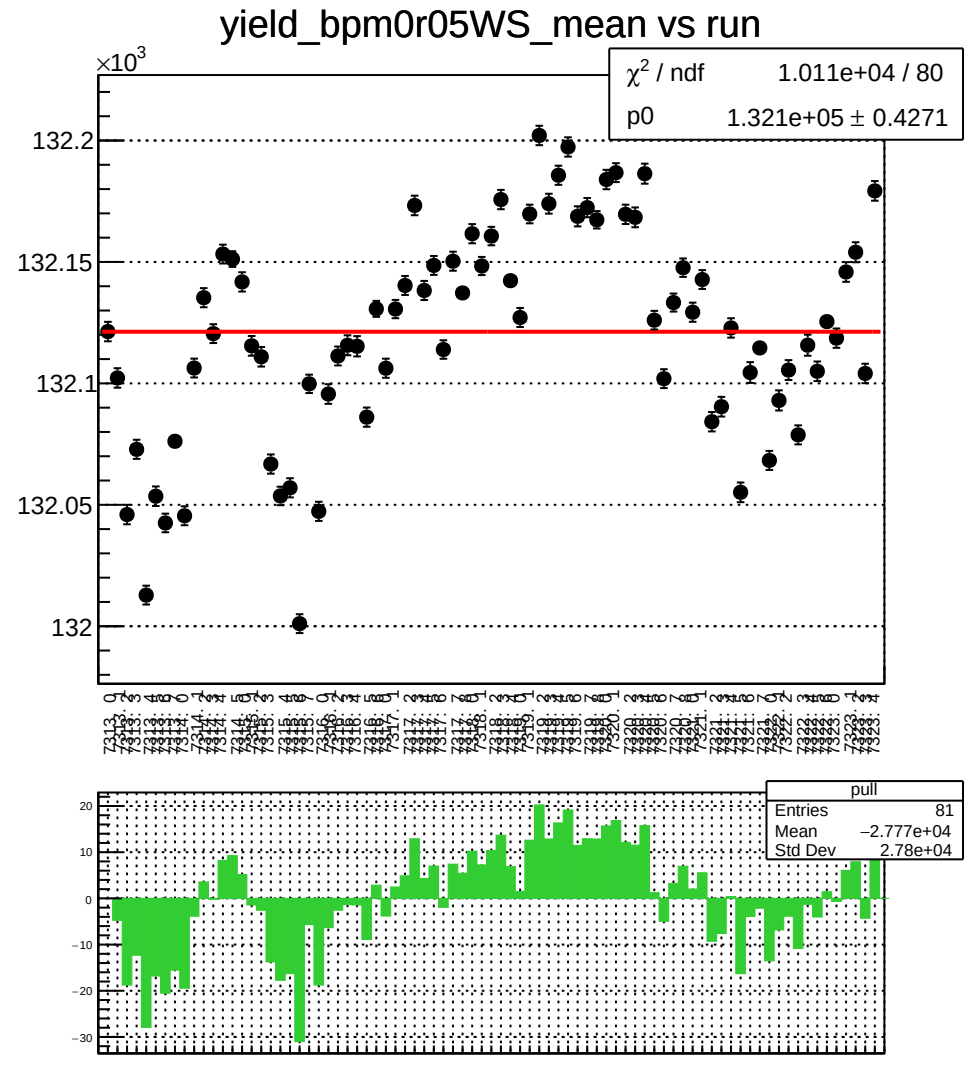

pull1D
Entries 81
Mean 1.129
Std Dev 4.445
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

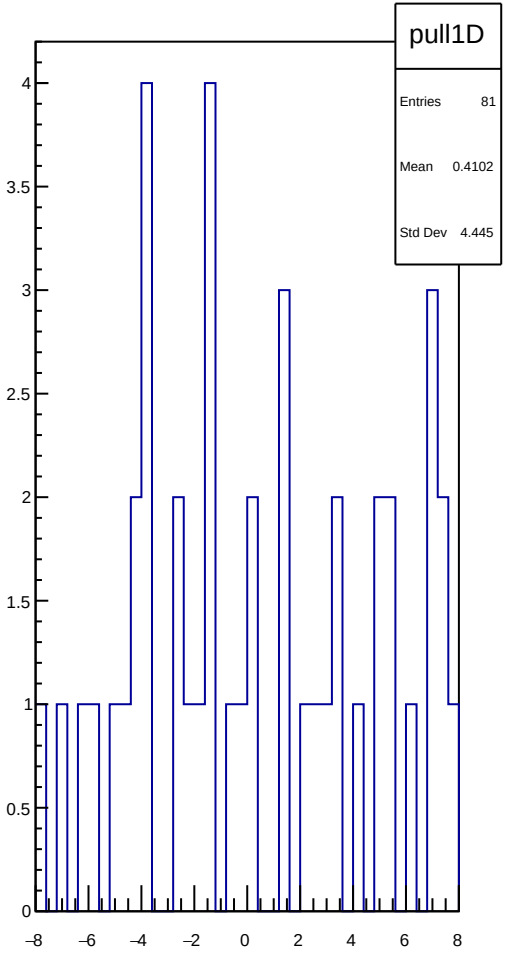

yield_bpm0l10WS_rms vs run
χ² / ndf 1099 / 80
p0 244.4 ± 0.1964
265
260
255
250
245
240
235
230

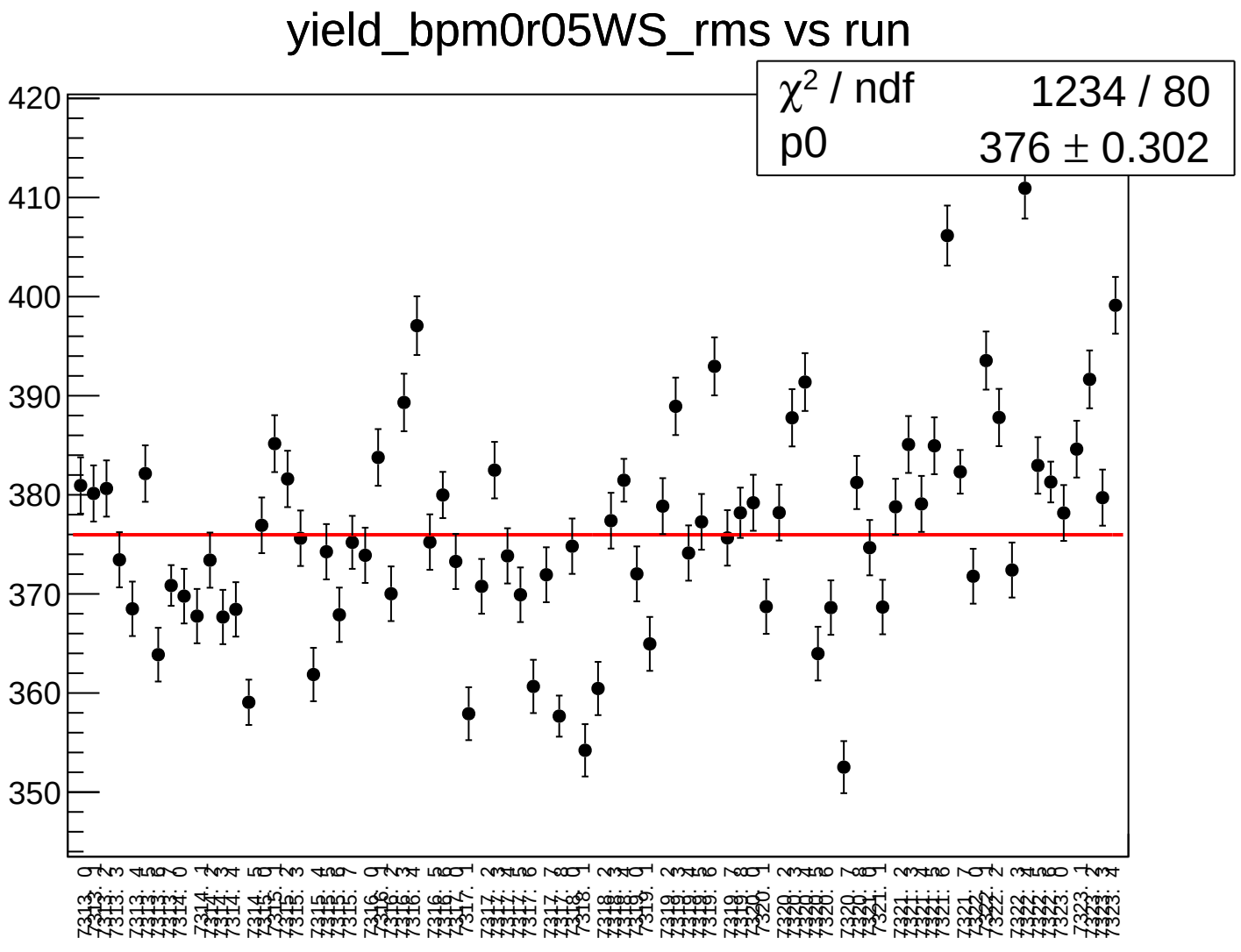

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.868e+04 / 80
p0 1.424e+05 ± 0.3203
142.45
142.4
142.35
142.3
142.25
142.2
142.15
142.1
pull
Entries 81
Mean 191
Std Dev 142
40
20
0
−20
−40
−60

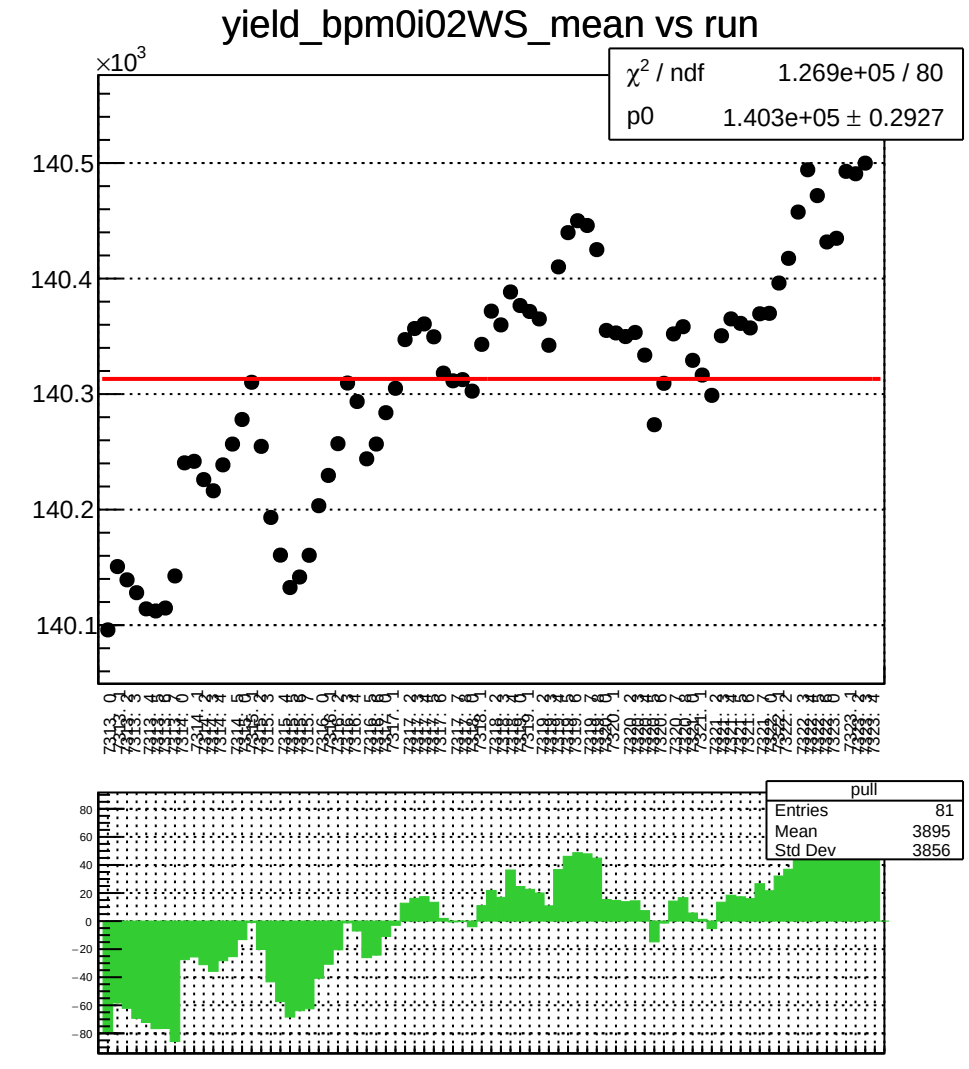

pull1D
Entries 81
Mean 0.009583
Std Dev 4.342
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

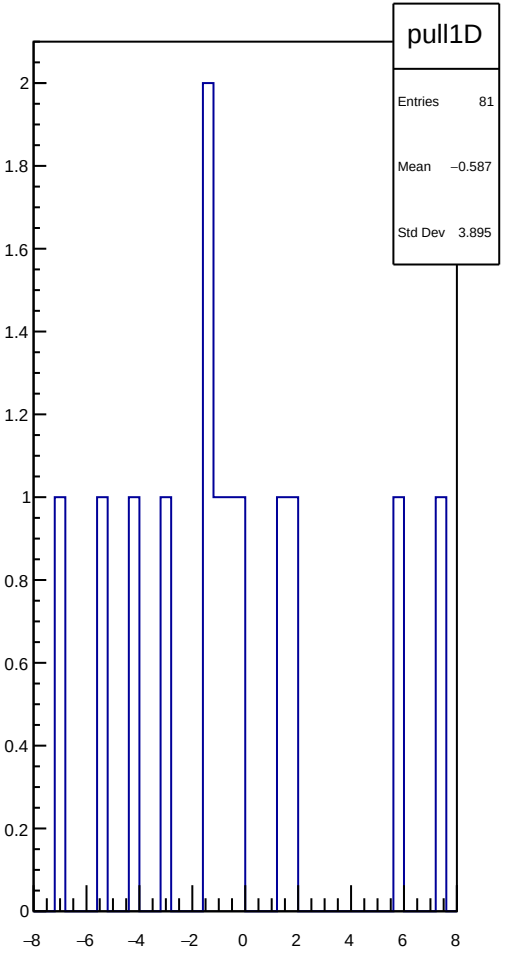

yield_bpm0r03WS_rms vs run
χ² / ndf 1.036e+04 / 80
p0 281.1 ± 0.2265
400
380
360
340
320
300
280
260
240

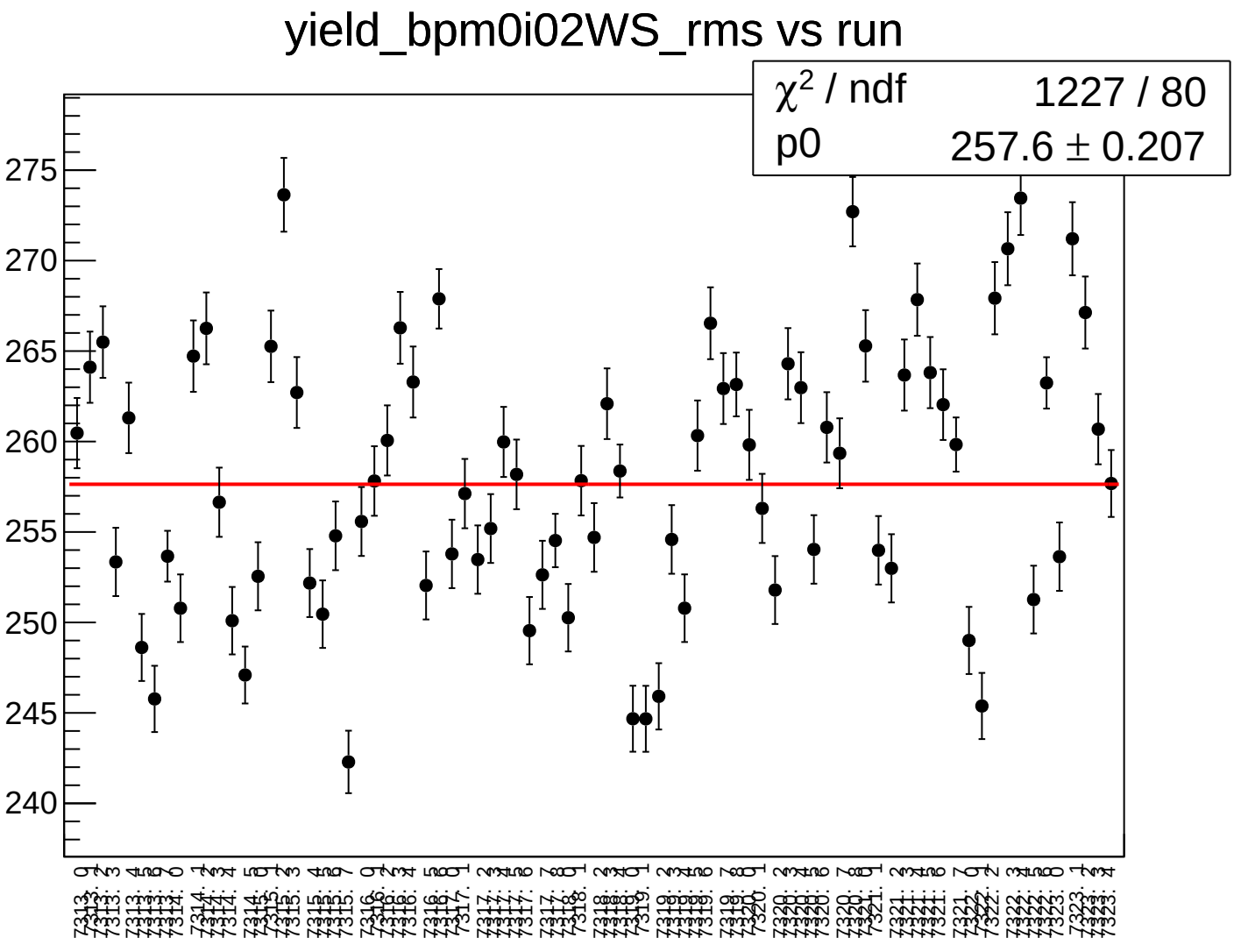

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.011e+04 / 80
p0 1.321e+05 ± 0.4271
132.2
132.15
132.1
132.05
132
pull
Entries 81
Mean −2.777e+04
Std Dev 2.78e+04
20
10
0
−10
−20
−30

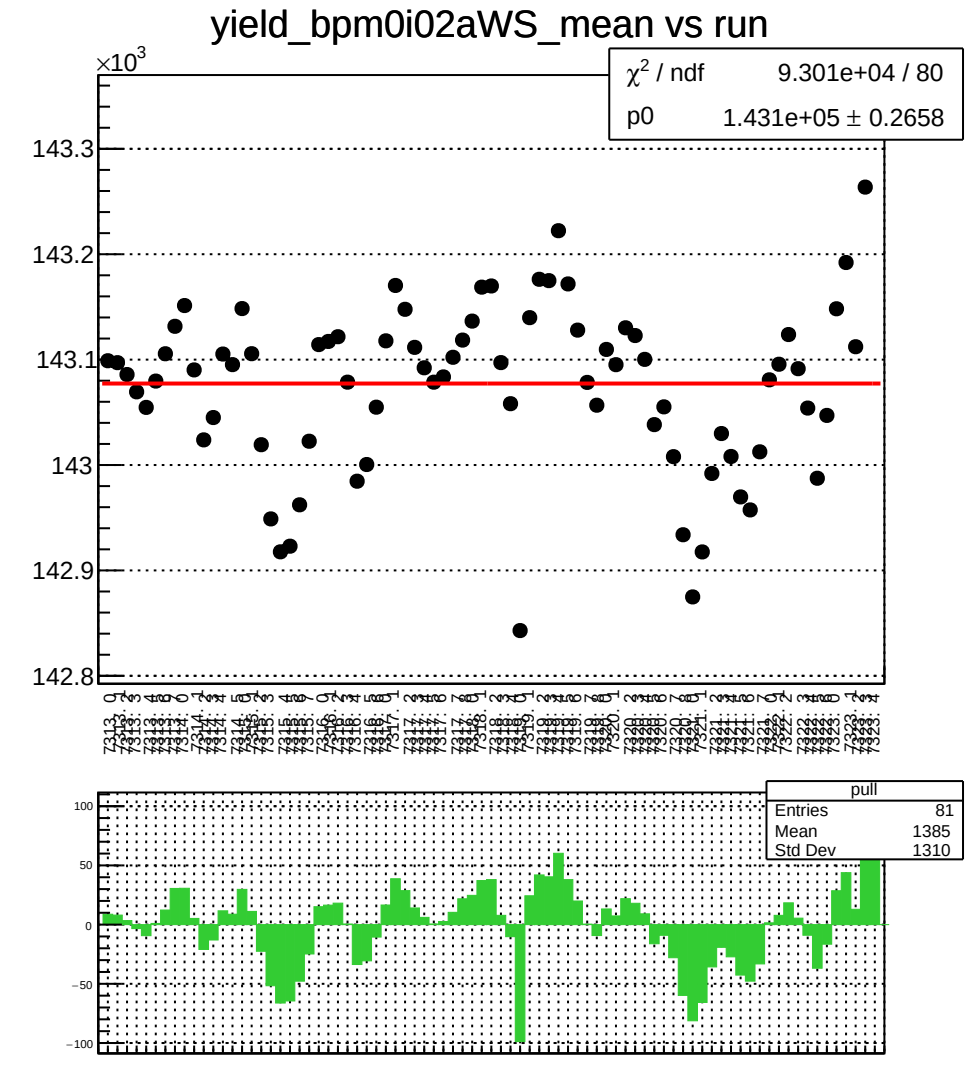

pull1D
Entries 81
Mean 0.4102
Std Dev 4.445
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

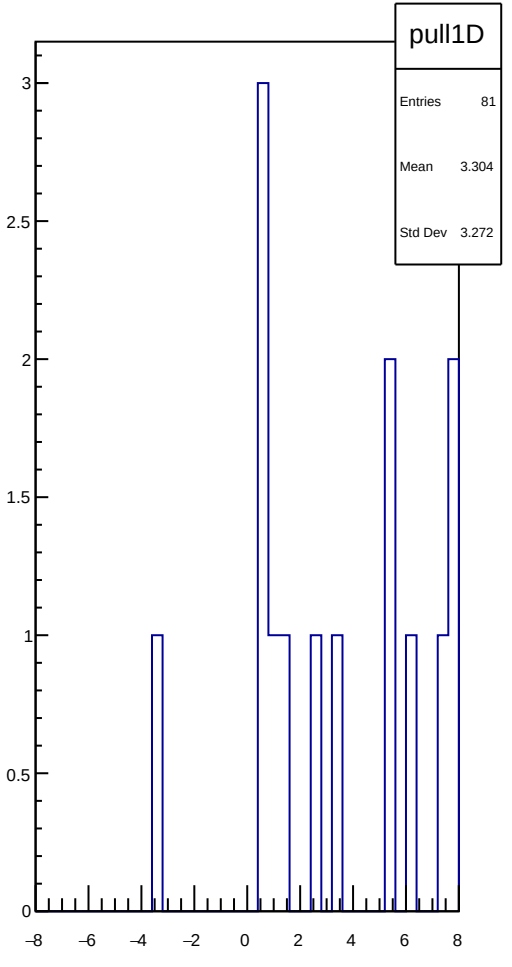

yield_bpm0r05WS_rms vs run
χ² / ndf 1234 / 80
p0 376 ± 0.302
420
410
400
390
380
370
360
350

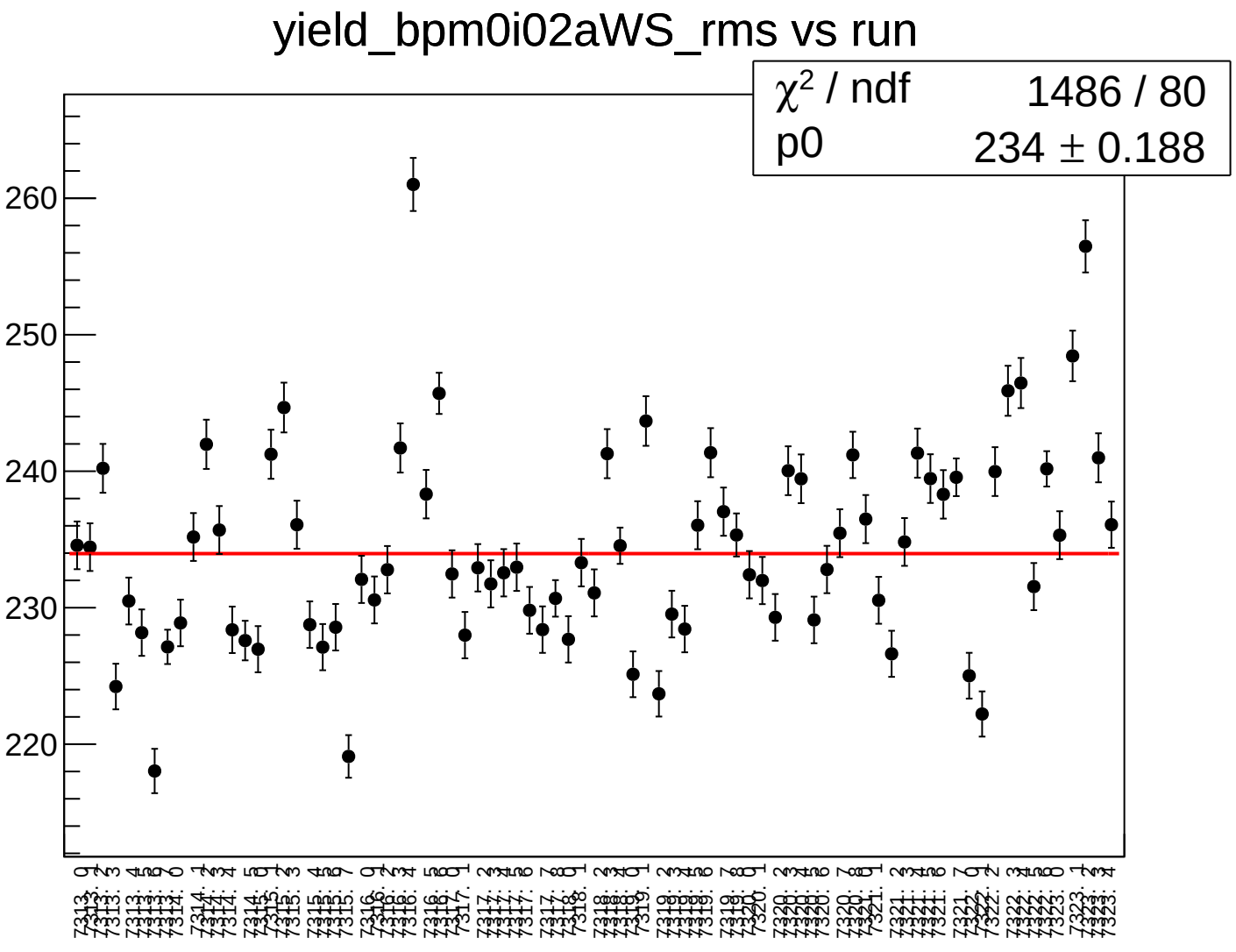

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.269e+05 / 80
p0 1.403e+05 ± 0.2927
140.5
140.4
140.3
140.2
140.1
pull
Entries 81
Mean 3895
Std Dev 3856
80
60
40
20
0
−20
−40
−60
−80

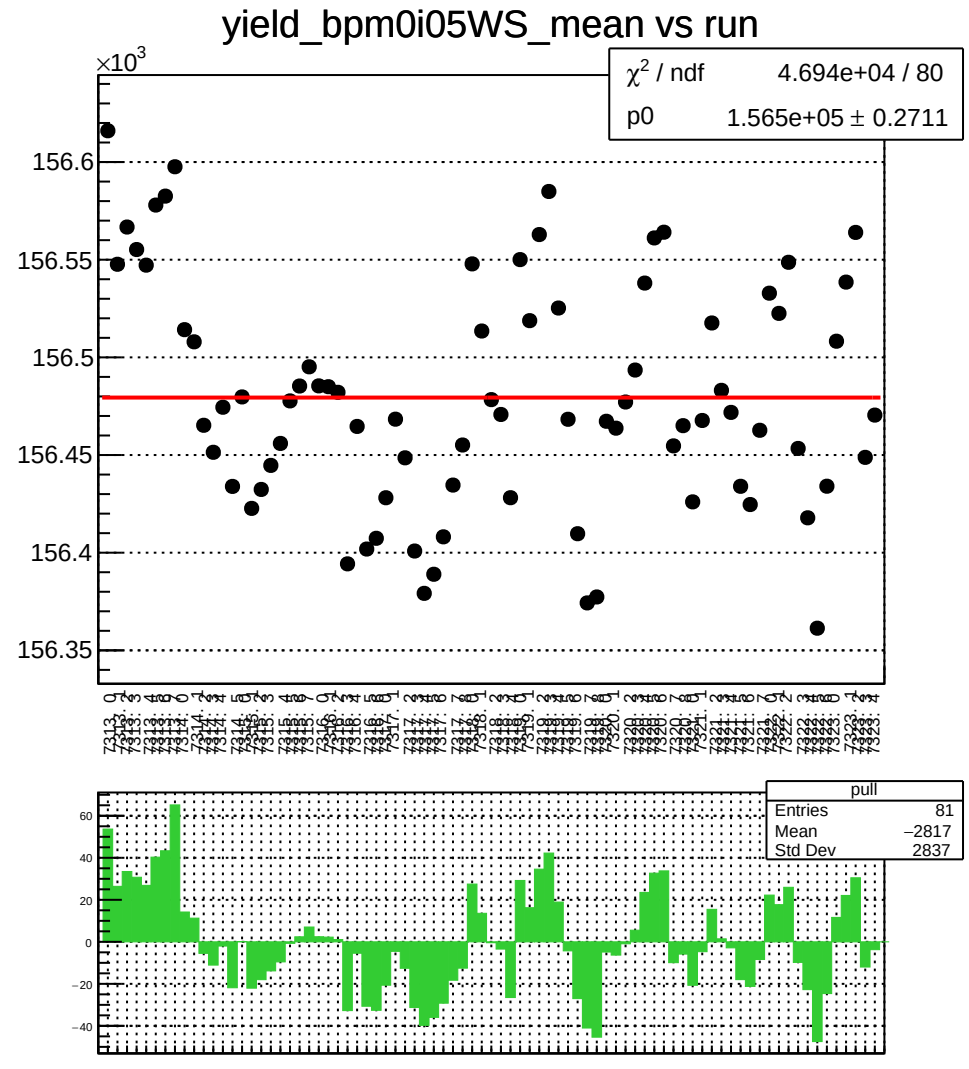

pull1D
Entries 81
Mean −0.587
Std Dev 3.895
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

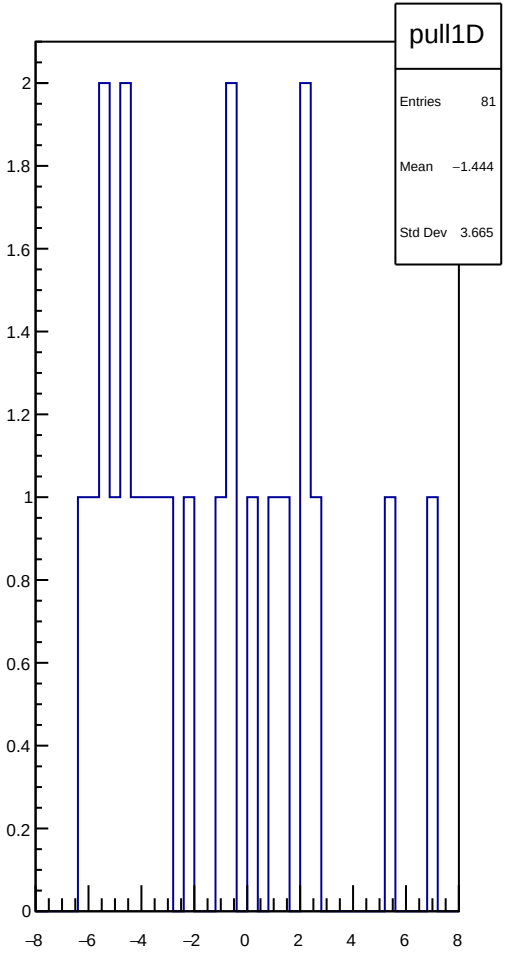

yield_bpm0i02WS_rms vs run
χ^2 / ndf 1227 / 80
p0 257.6 ± 0.207
275
270
265
260
255
250
245
240

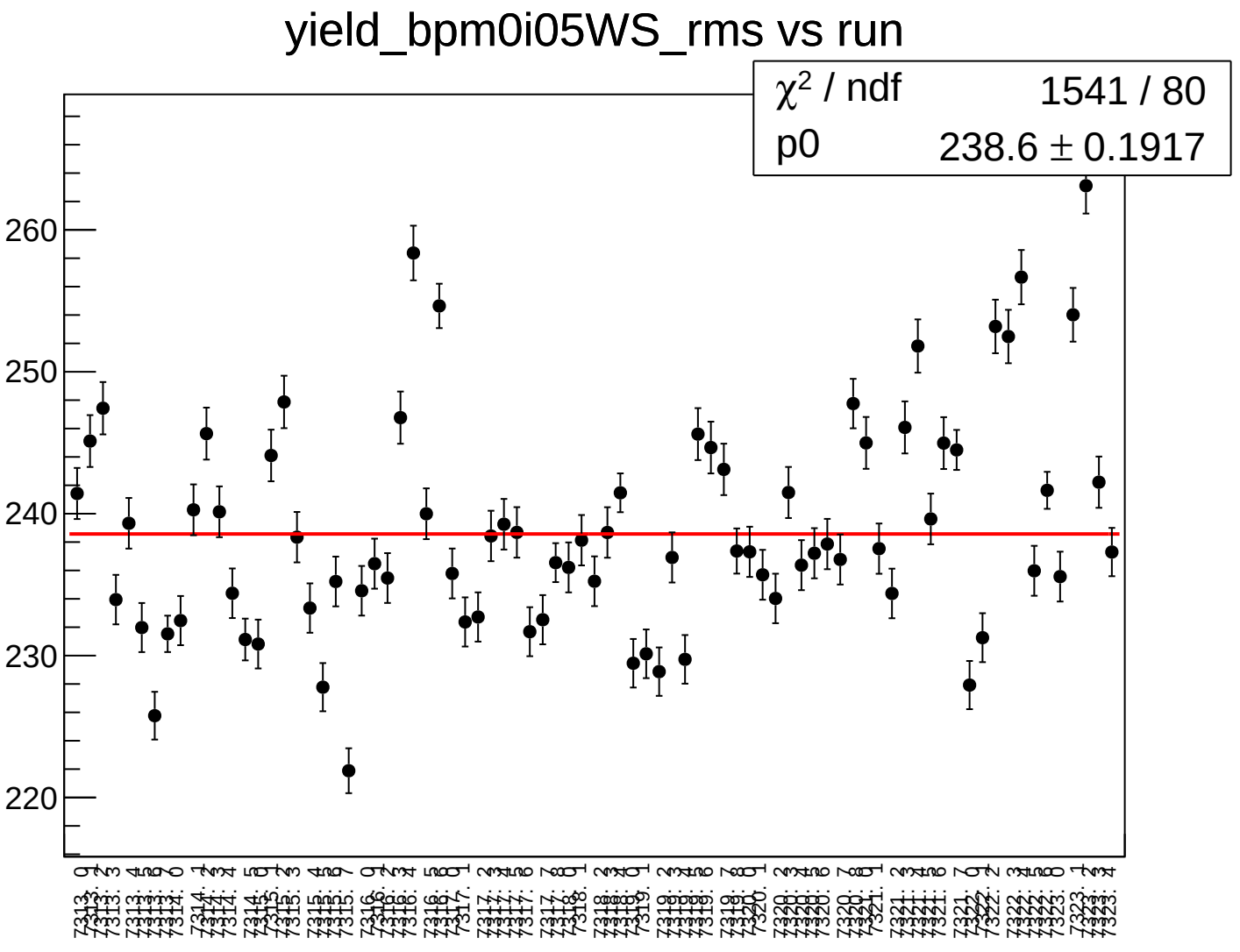

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.301e+04 / 80
p0 1.431e+05 ± 0.2658
143.3
143.2
143.1
143
142.9
142.8
pull
Entries 81
Mean 1385
Std Dev 1310
100
50
0
−50
−100

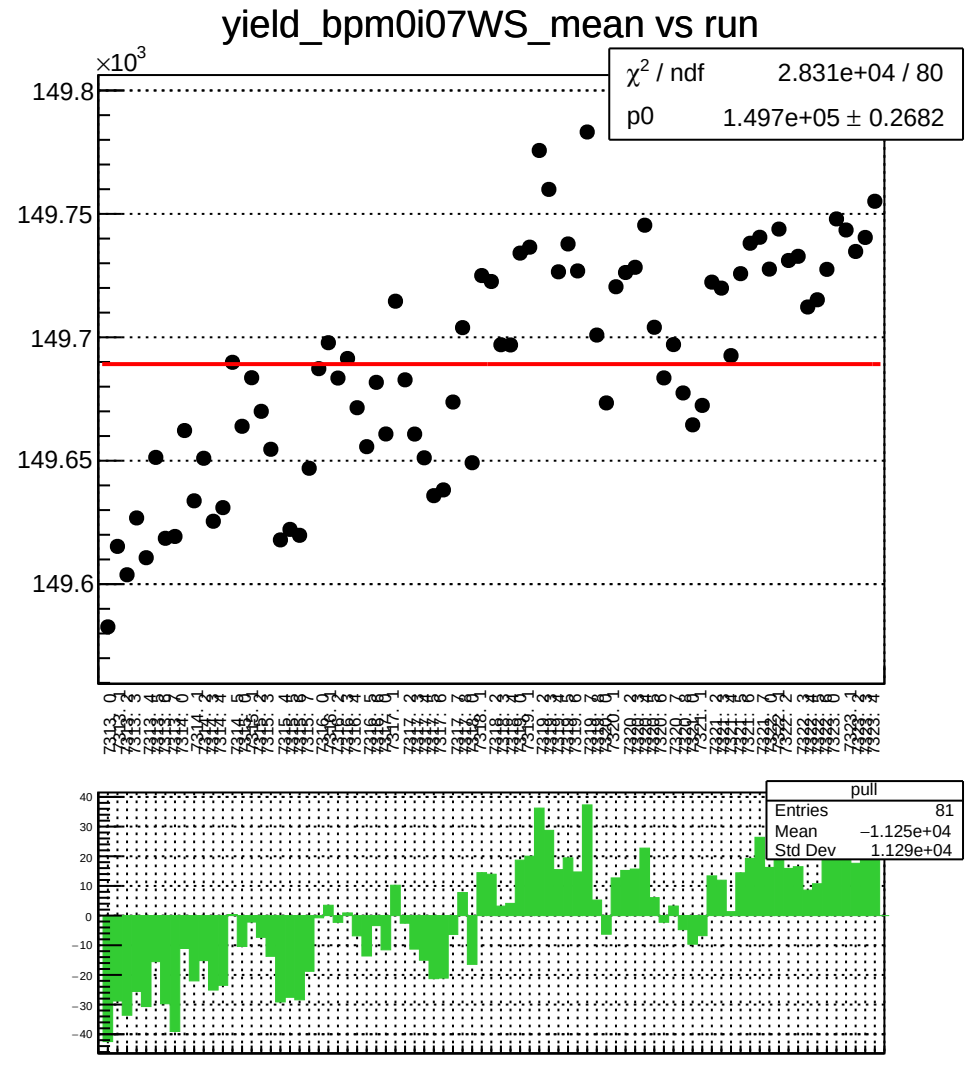

pull1D
Entries 81
Mean 3.304
Std Dev 3.272
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

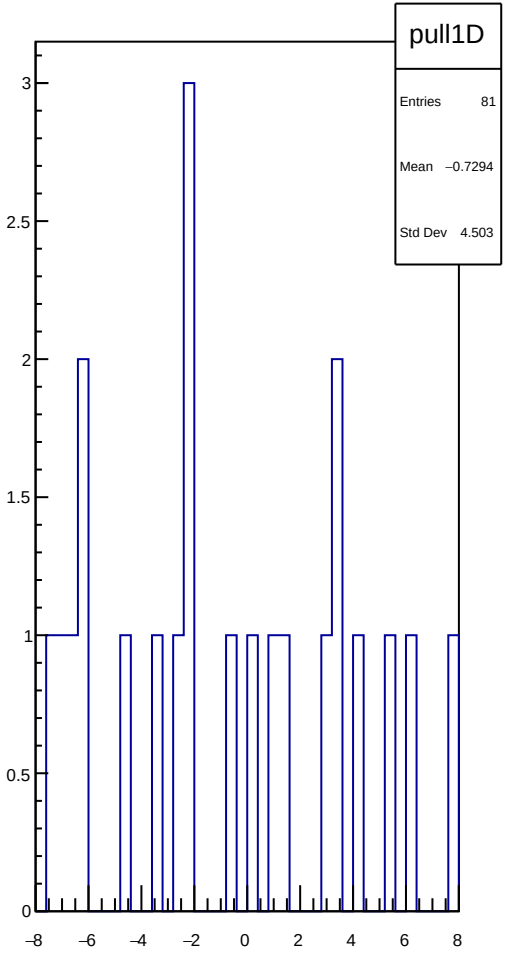

yield_bpm0i02aWS_rms vs run
χ² / ndf 1486 / 80
p0 234 ± 0.188
260
250
240
230
220

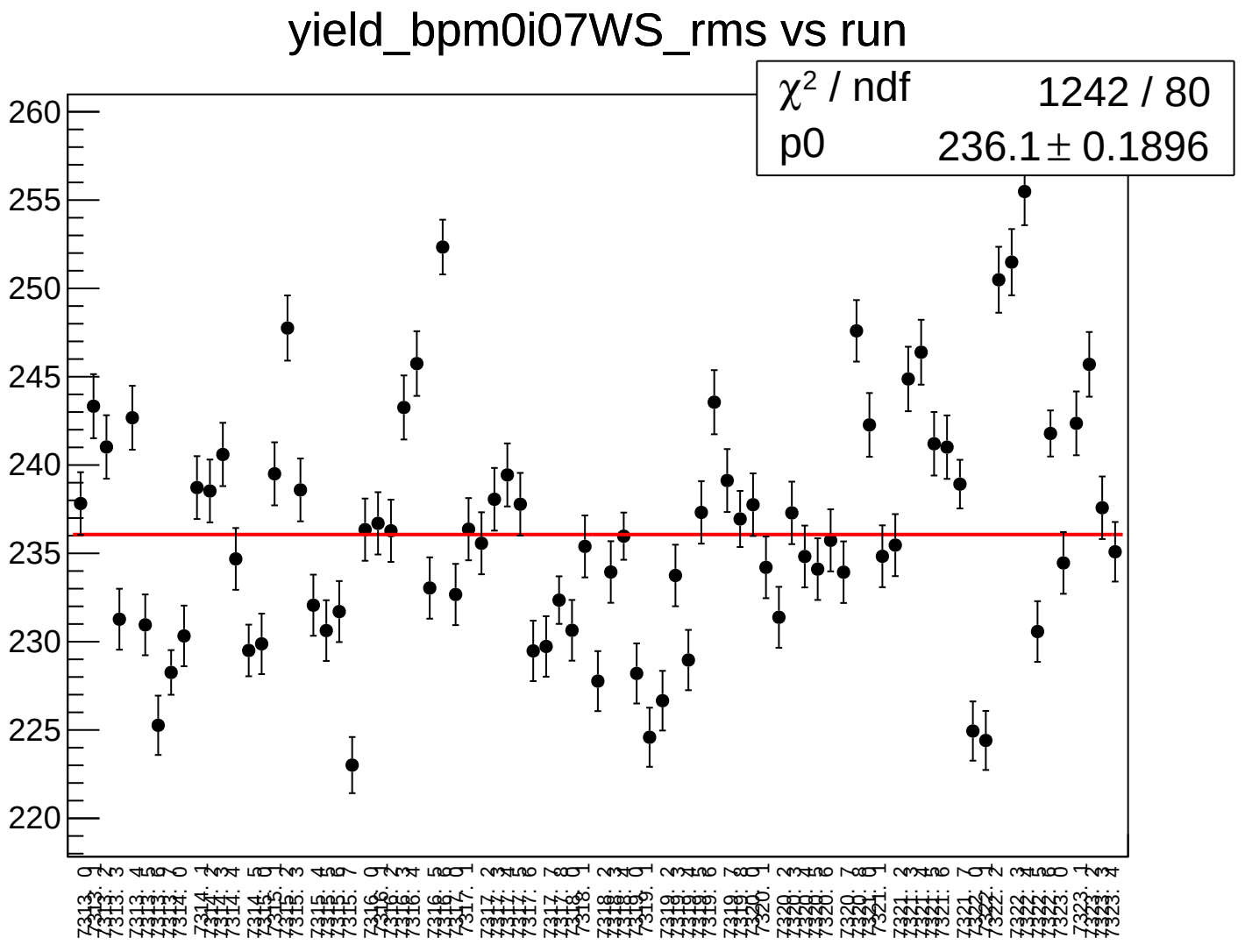

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.694e+04 / 80
p0 1.565e+05 ± 0.2711
156.6
156.55
156.5
156.45
156.4
156.35
pull
Entries 81
Mean −2817
Std Dev 2837
60
40
20
0
−20
−40

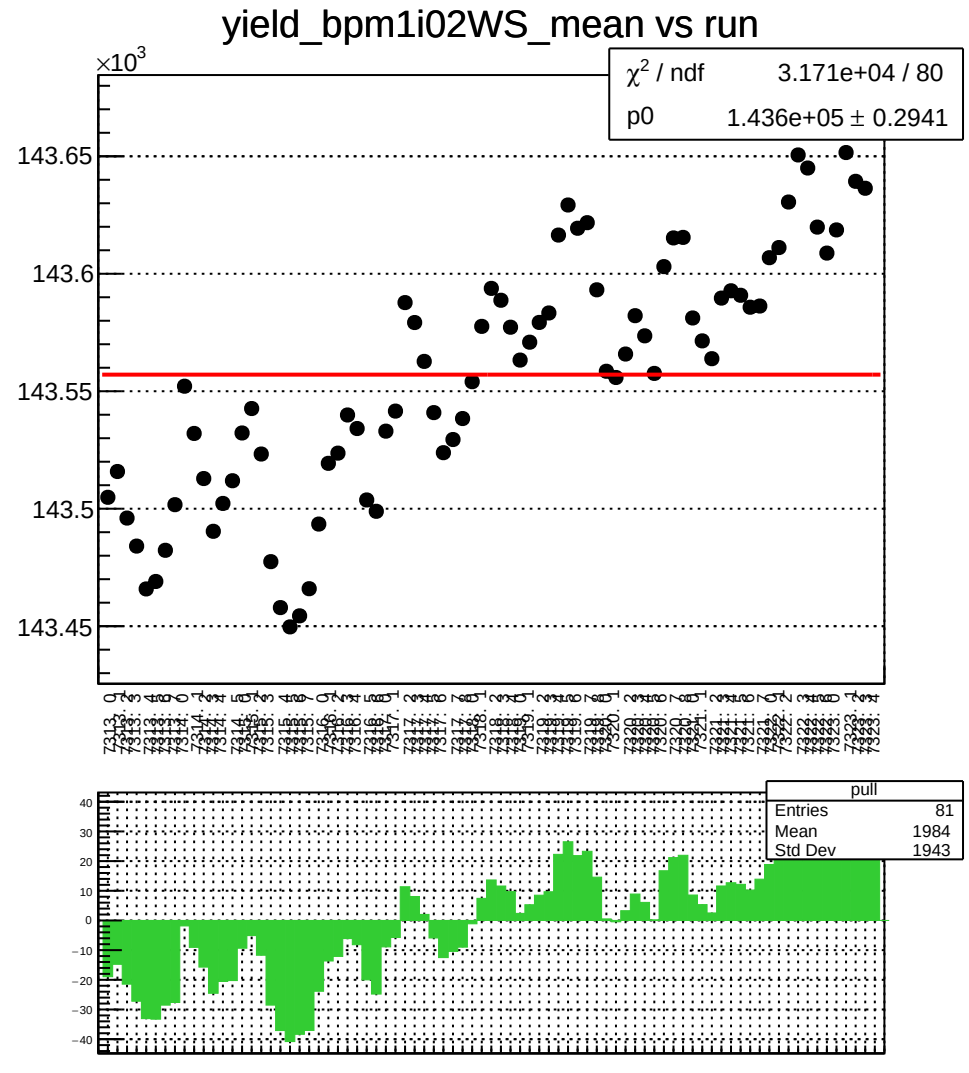

pull1D
Entries 81
Mean −1.444
Std Dev 3.665
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

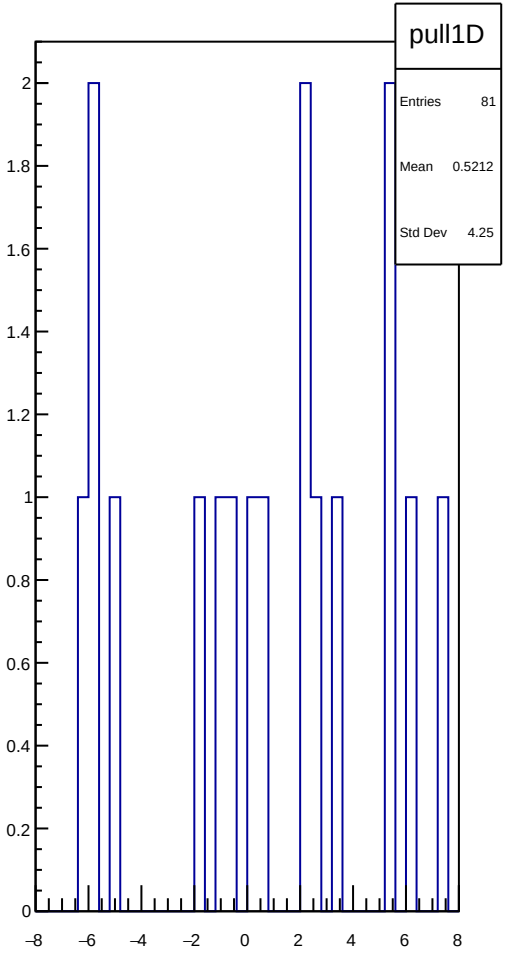

yield_bpm0i05WS_rms vs run
χ² / ndf 1541 / 80
p0 238.6 ± 0.1917
260
250
240
230
220

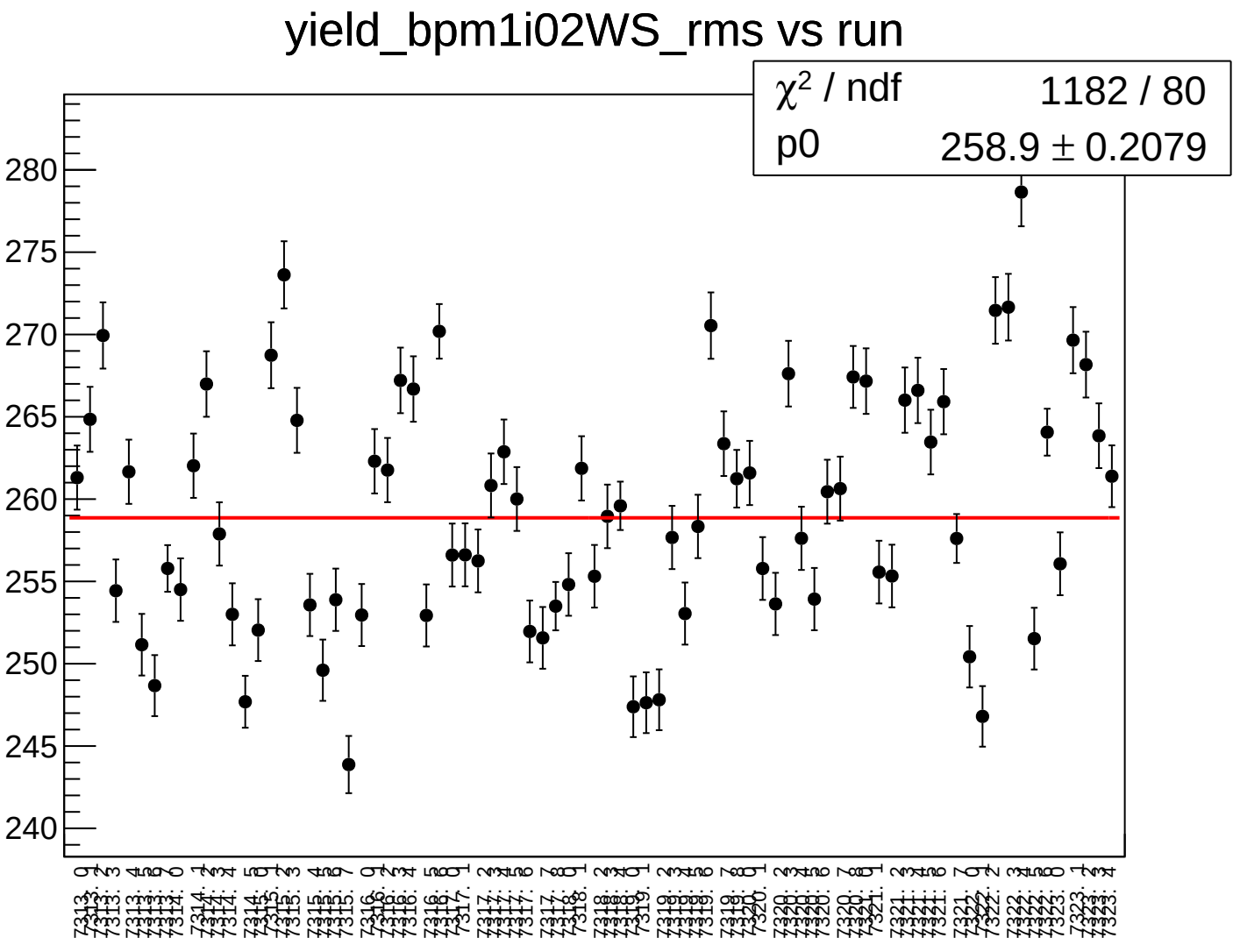

yield_bpm0i07WS_mean vs run
×10^3
149.8
149.75
149.7
149.65
149.6
χ² / ndf 2.831e+04 / 80
p0 1.497e+05 ± 0.2682
pull
Entries 81
Mean −1.125e+04
Std Dev 1.129e+04
40
30
20
10
0
−10
−20
−30
−40

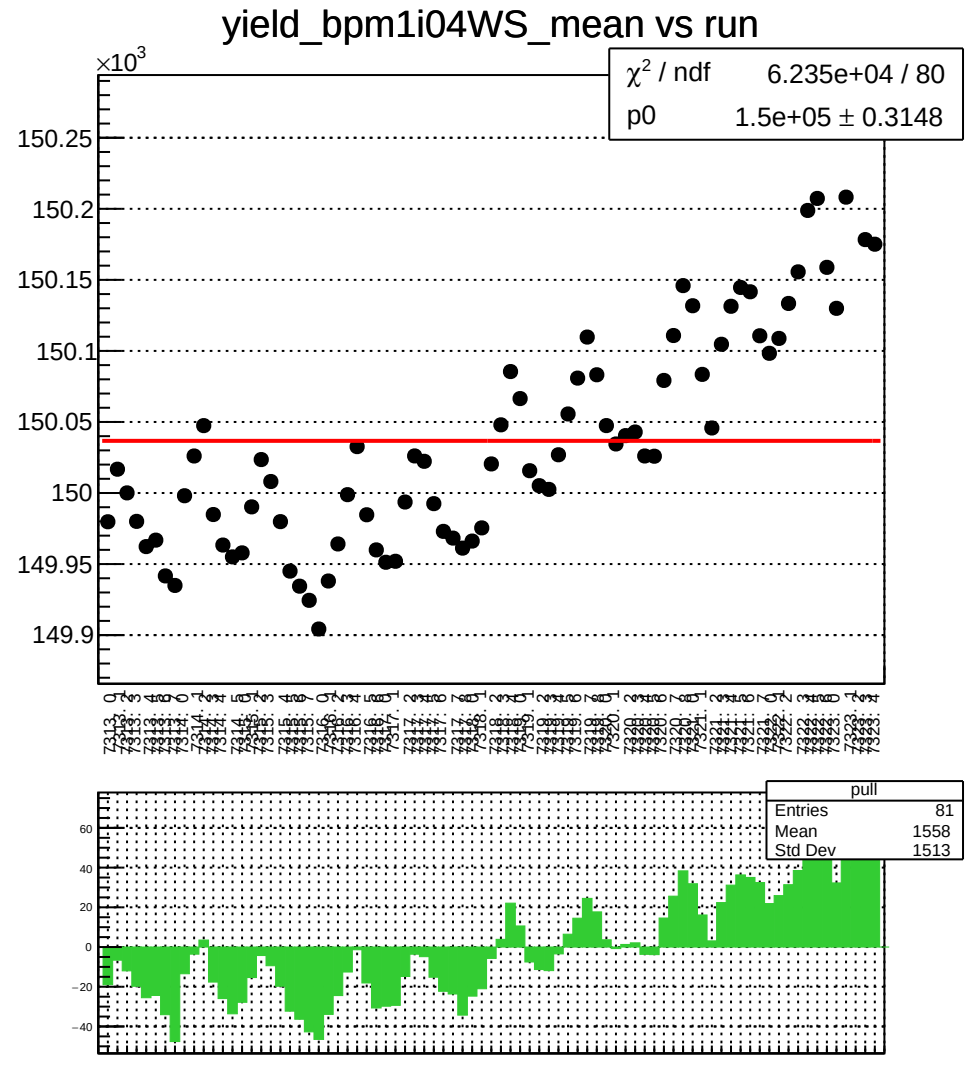

pull1D
Entries 81
Mean −0.7294
Std Dev 4.503
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

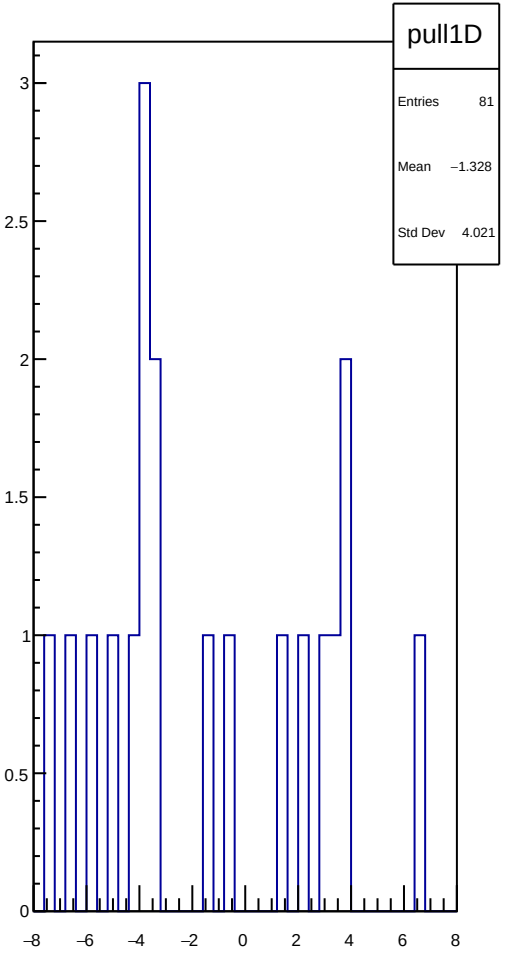

yield_bpm0i07WS_rms vs run
χ² / ndf 1242 / 80
p0 236.1 ± 0.1896
260
255
250
245
240
235
230
225
220

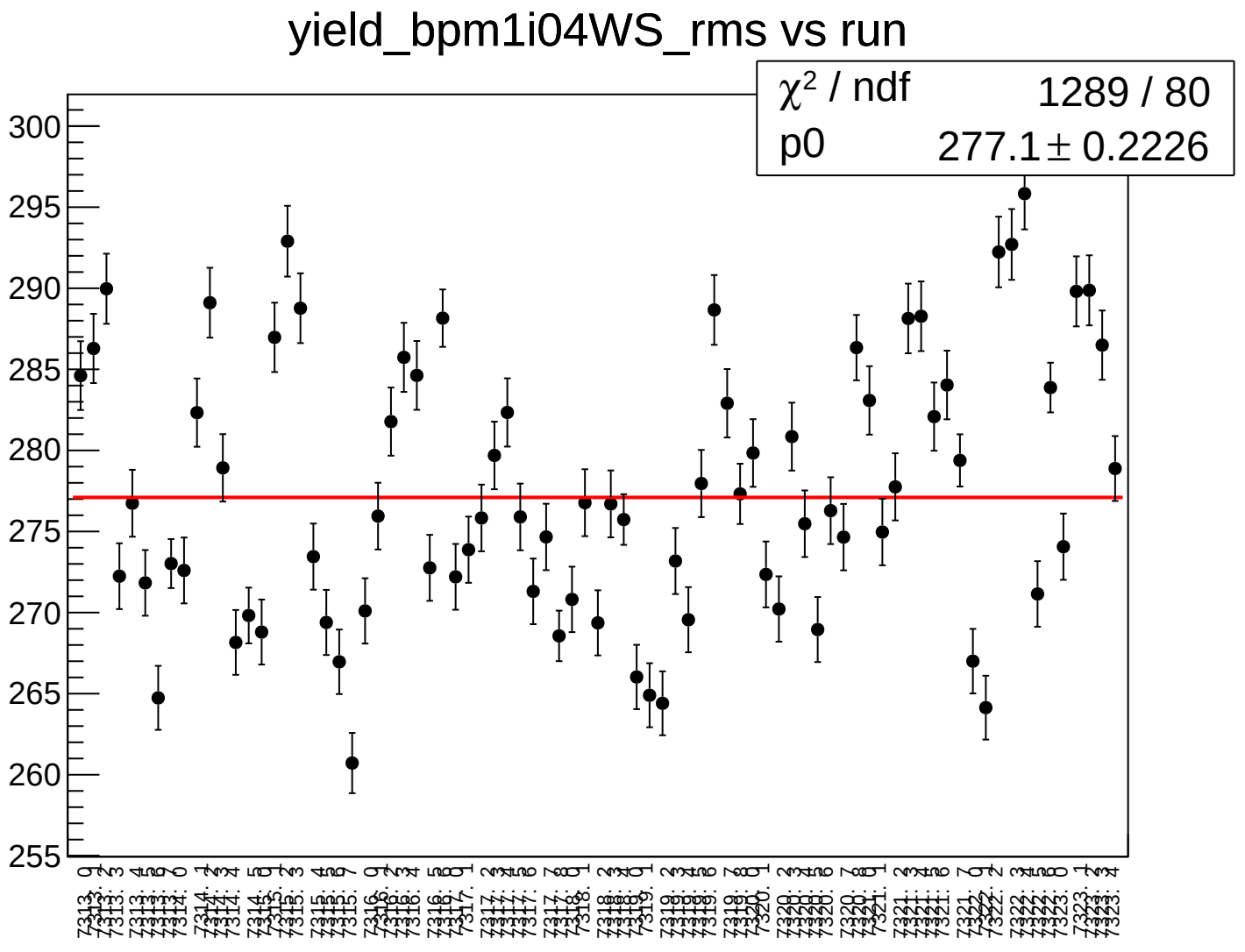

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.171e+04 / 80
p0 1.436e+05 ± 0.2941
143.65
143.6
143.55
143.5
143.45
pull
Entries 81
Mean 1984
Std Dev 1943
40
30
20
10
0
−10
−20
−30
−40

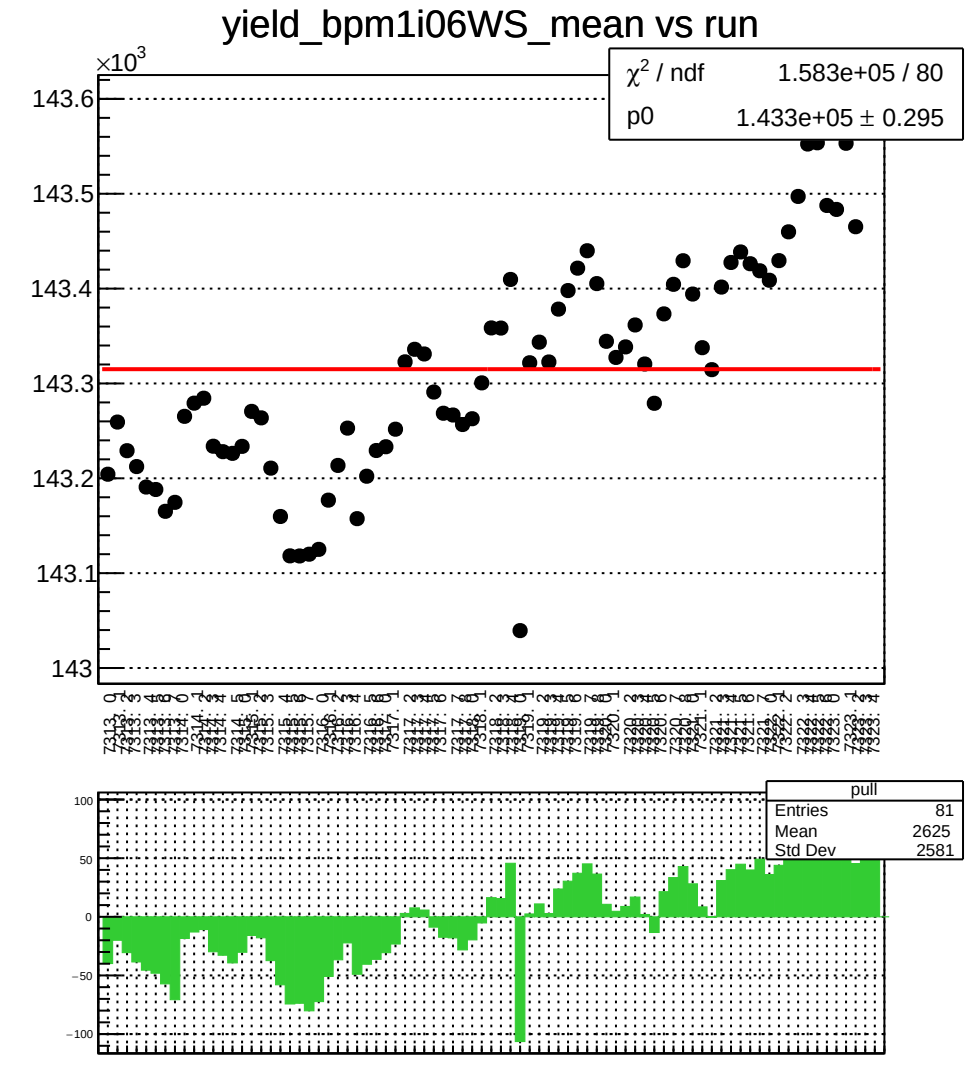

pull1D
Entries 81
Mean 0.5212
Std Dev 4.25
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

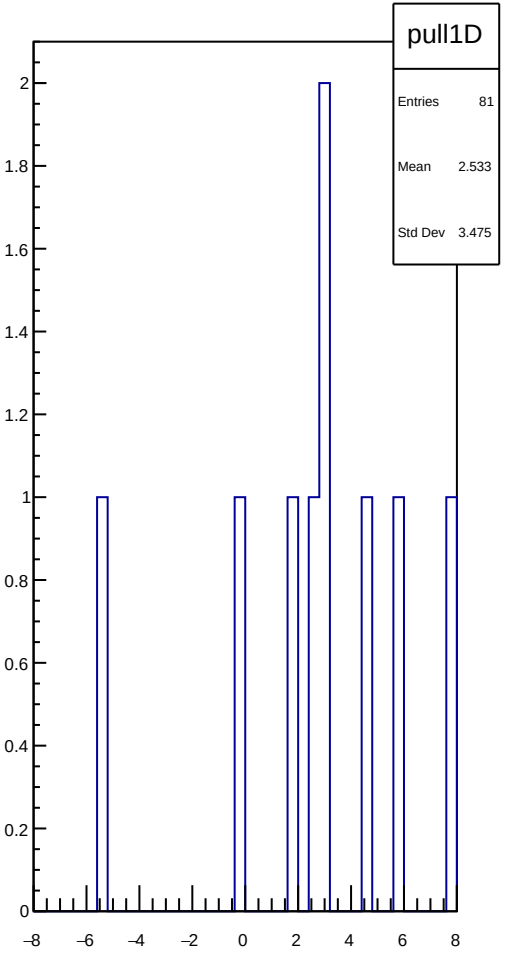

yield_bpm1i02WS_rms vs run
χ^2 / ndf 1182 / 80
p0 258.9 ± 0.2079
280
275
270
265
260
255
250
245
240

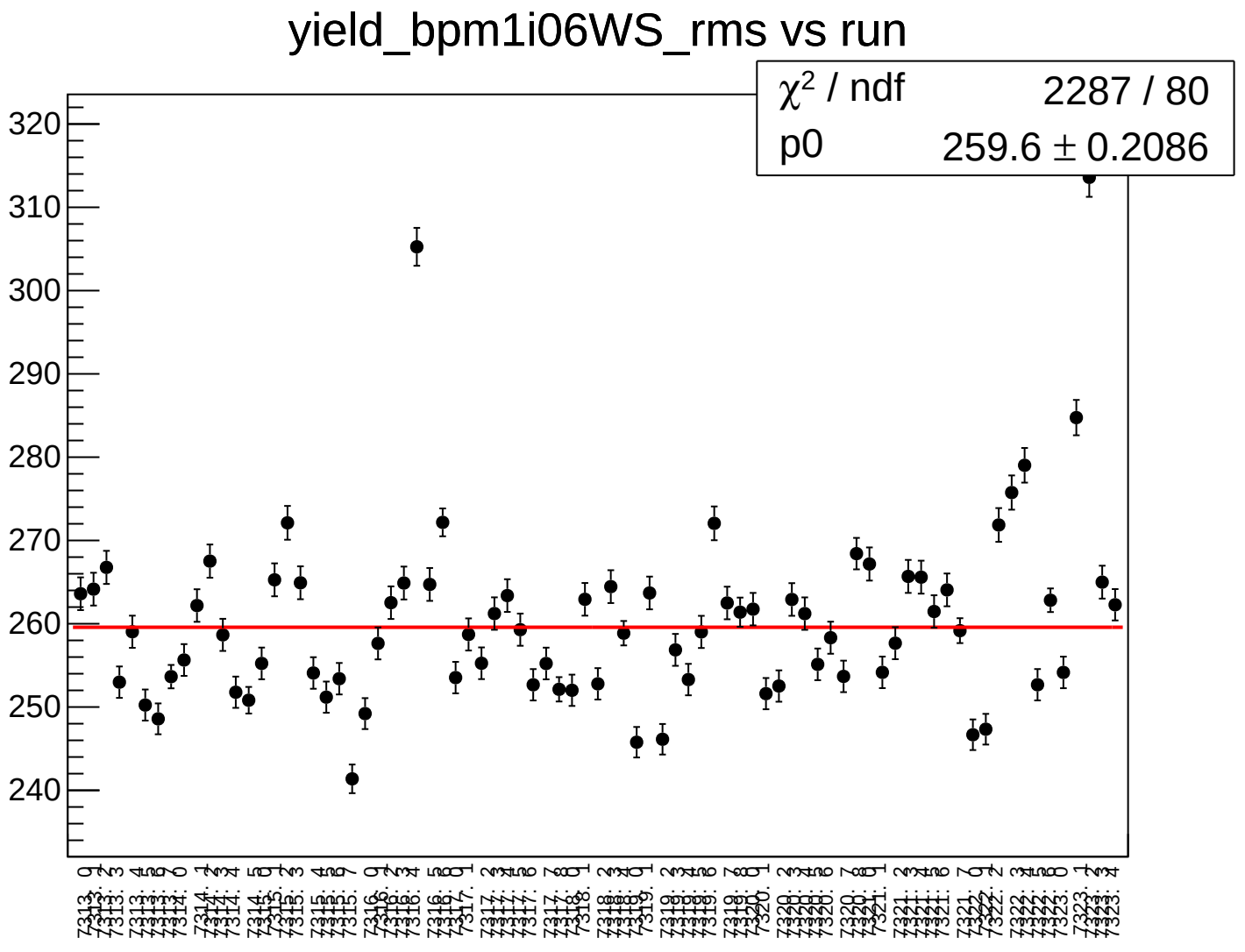

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 6.235e+04 / 80
p0 1.5e+05 ± 0.3148
150.25
150.2
150.15
150.1
150.05
150
149.95
149.9
pull
Entries 81
Mean 1558
Std Dev 1513
60
40
20
0
−20
−40

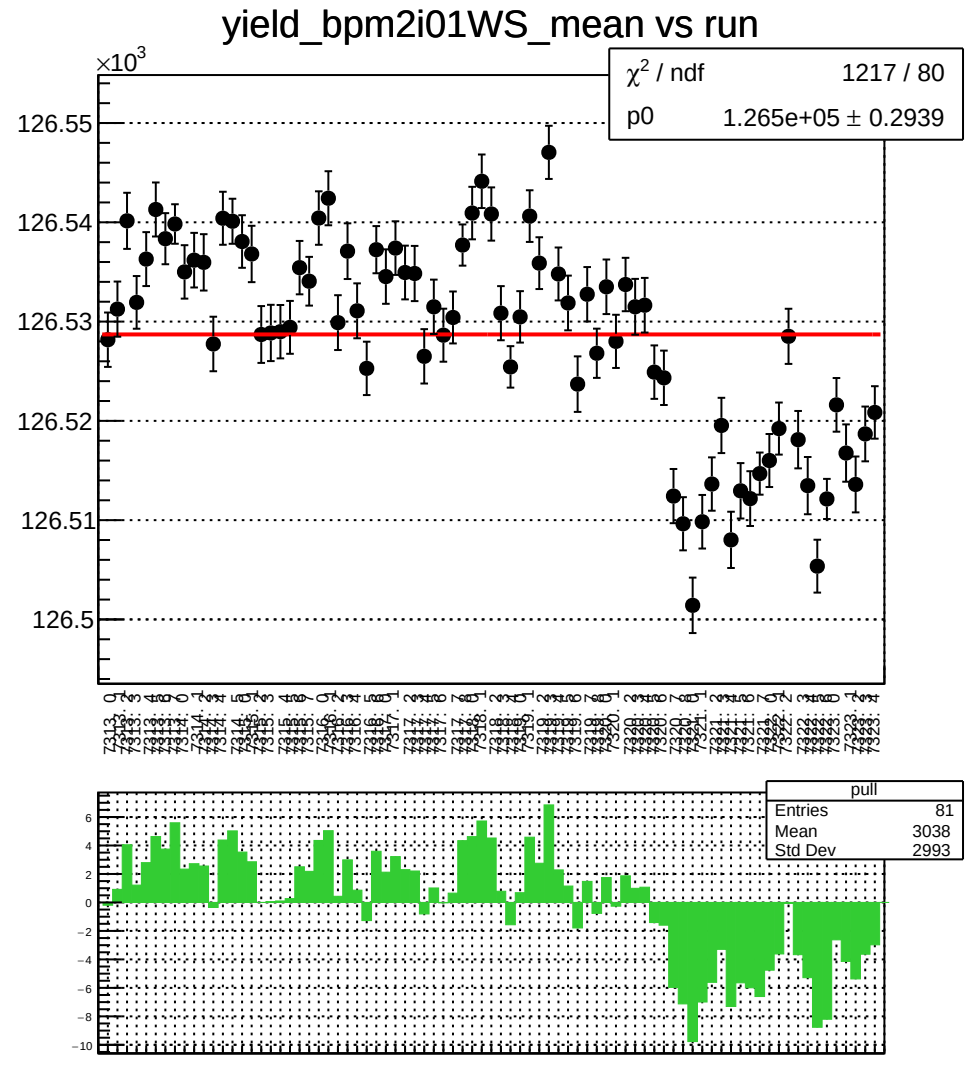

pull1D
Entries 81
Mean −1.328
Std Dev 4.021
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

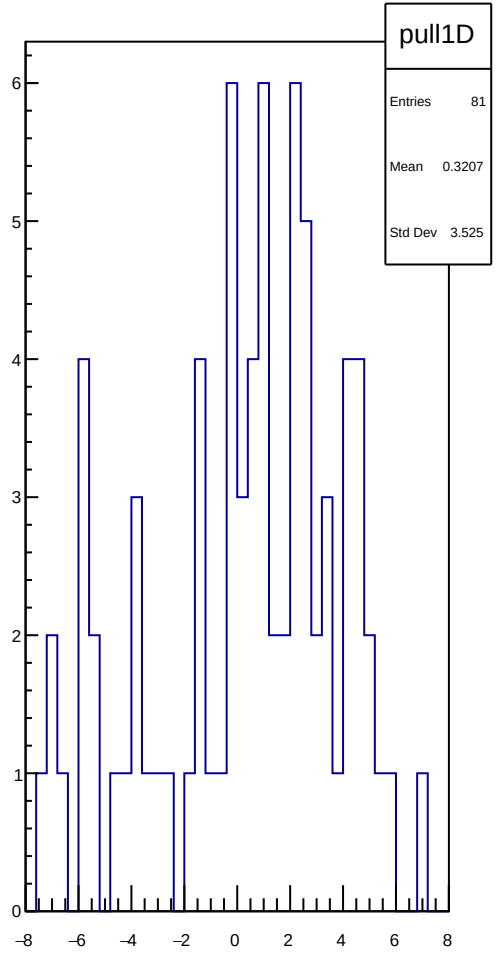

yield_bpm1i04WS_rms vs run
χ² / ndf 1289 / 80
p0 277.1 ± 0.2226
300
295
290
285
280
275
270
265
260
255

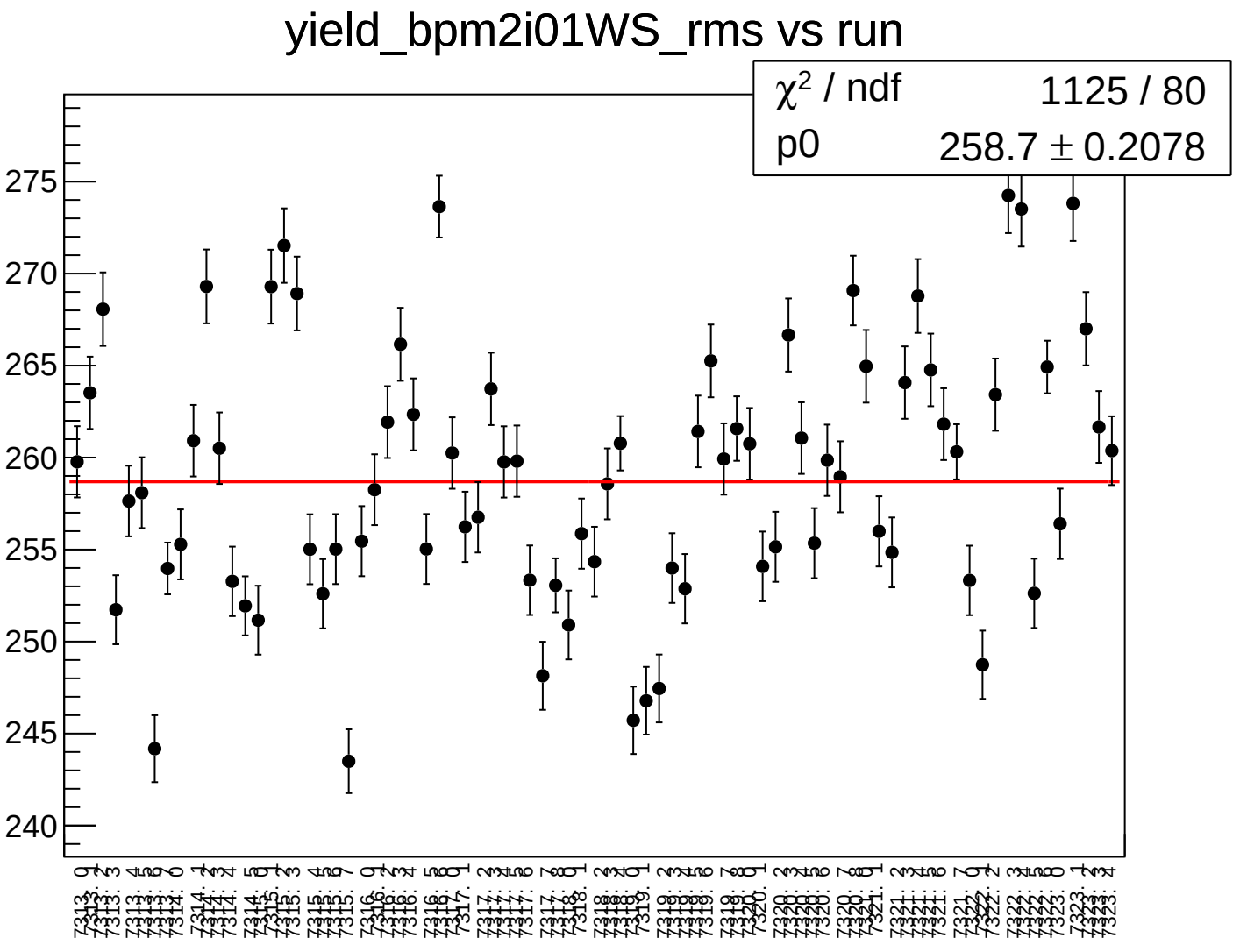

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.583e+05 / 80
p0 1.433e+05 ± 0.295
143.6
143.5
143.4
143.3
143.2
143.1
143
pull
Entries 81
Mean 2625
Std Dev 2581
100
50
0
−50
−100

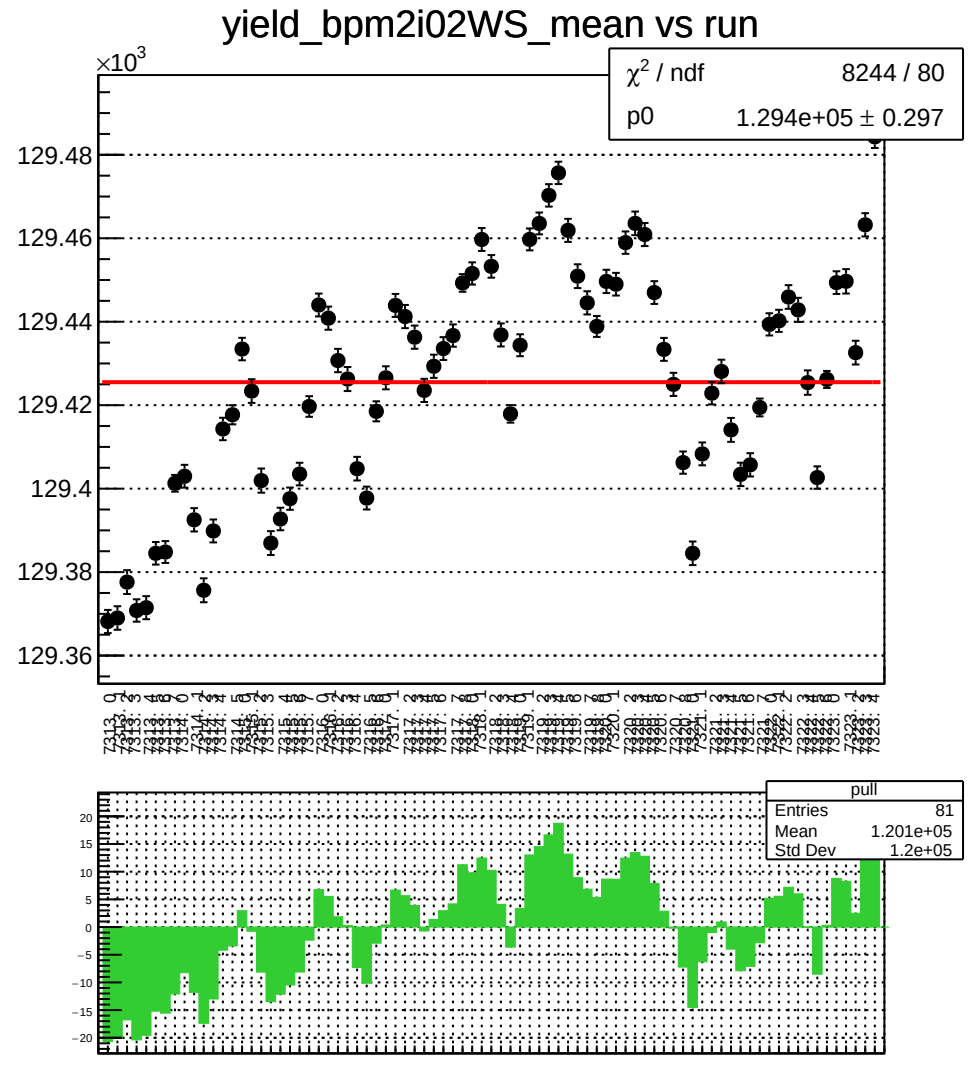

pull1D
Entries 81
Mean 2.533
Std Dev 3.475
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

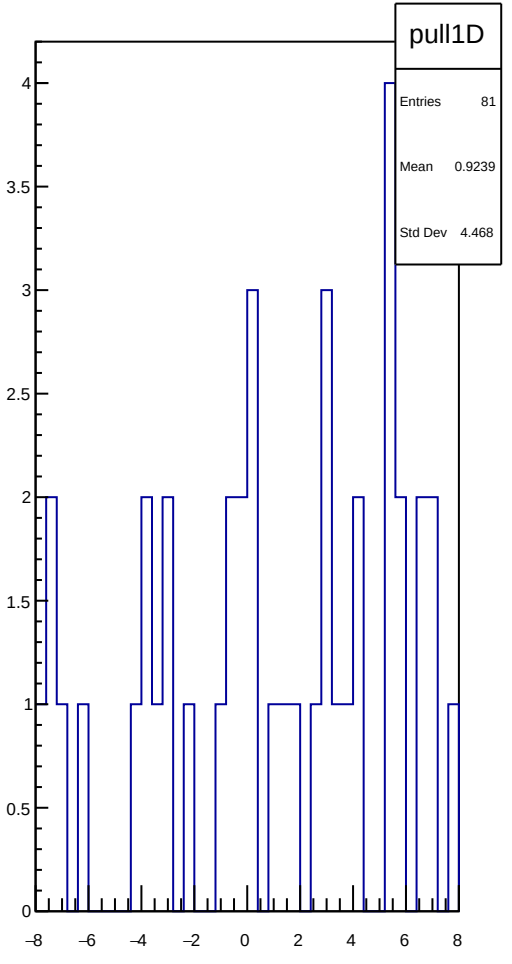

yield_bpm1i06WS_rms vs run
χ² / ndf 2287 / 80
p0 259.6 ± 0.2086
320
310
300
290
280
270
260
250
240

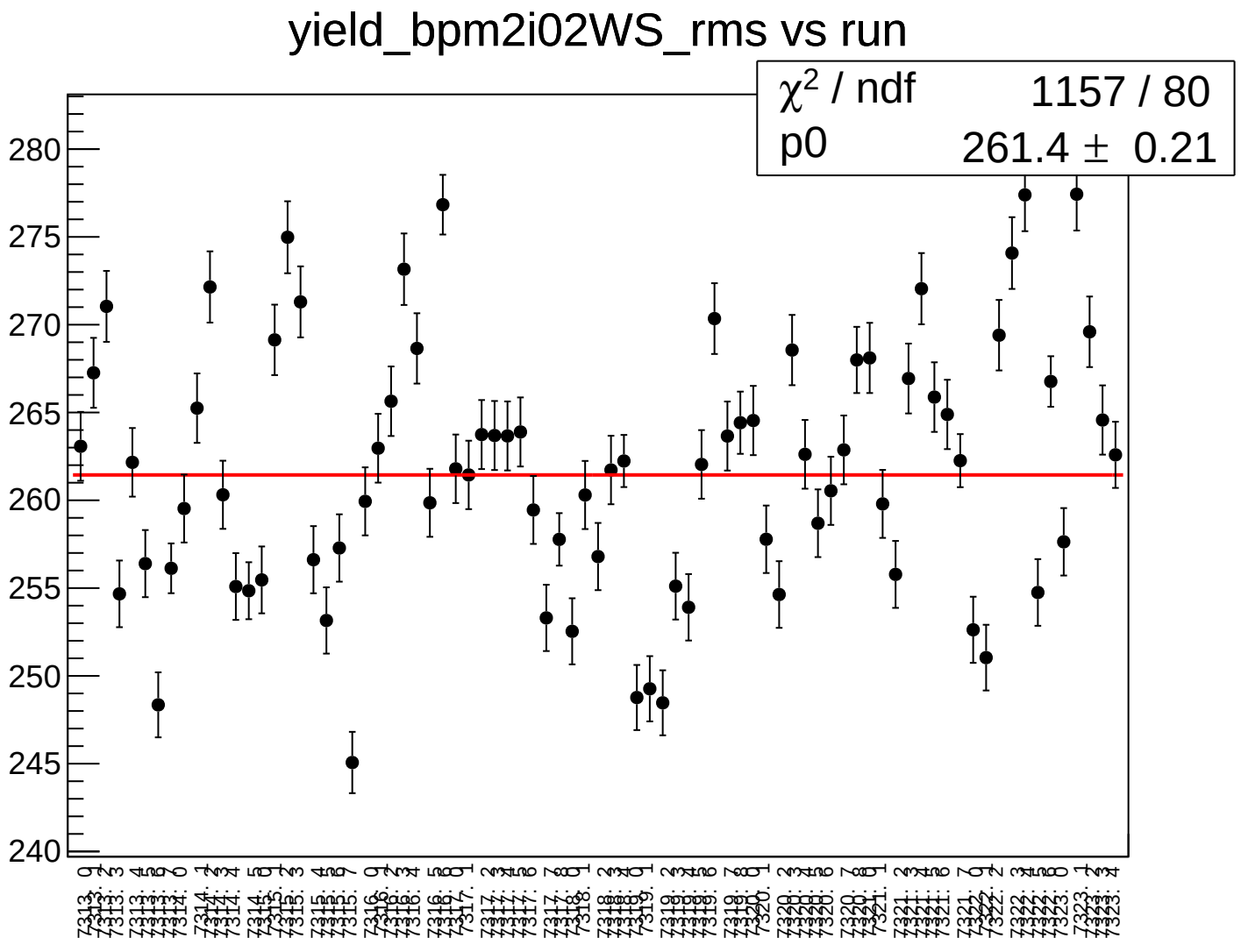

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1217 / 80
p0 1.265e+05 ± 0.2939
126.55
126.54
126.53
126.52
126.51
126.5
pull
Entries 81
Mean 3038
Std Dev 2993

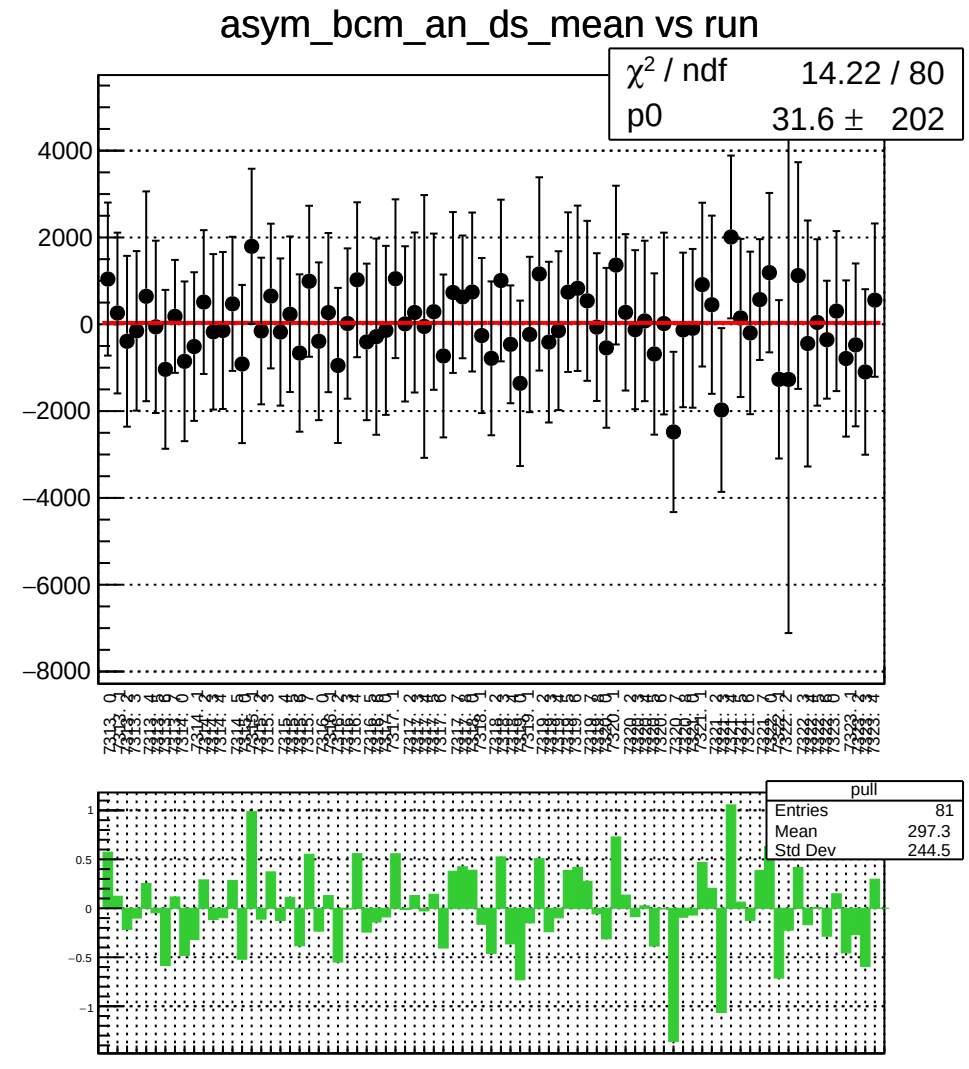

pull1D
Entries 81
Mean 0.3207
Std Dev 3.525

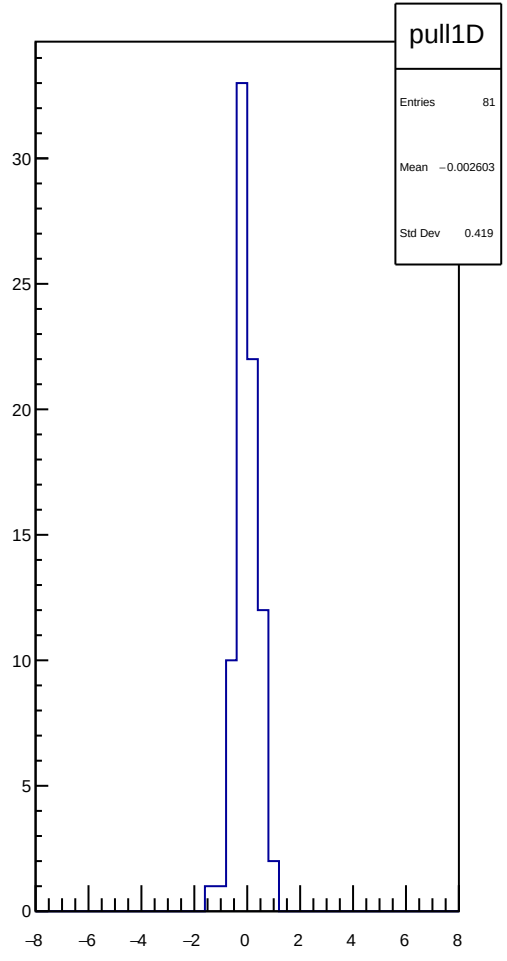

yield_bpm2i01WS_rms vs run
χ² / ndf 1125 / 80
p0 258.7 ± 0.2078
275
270
265
260
255
250
245
240

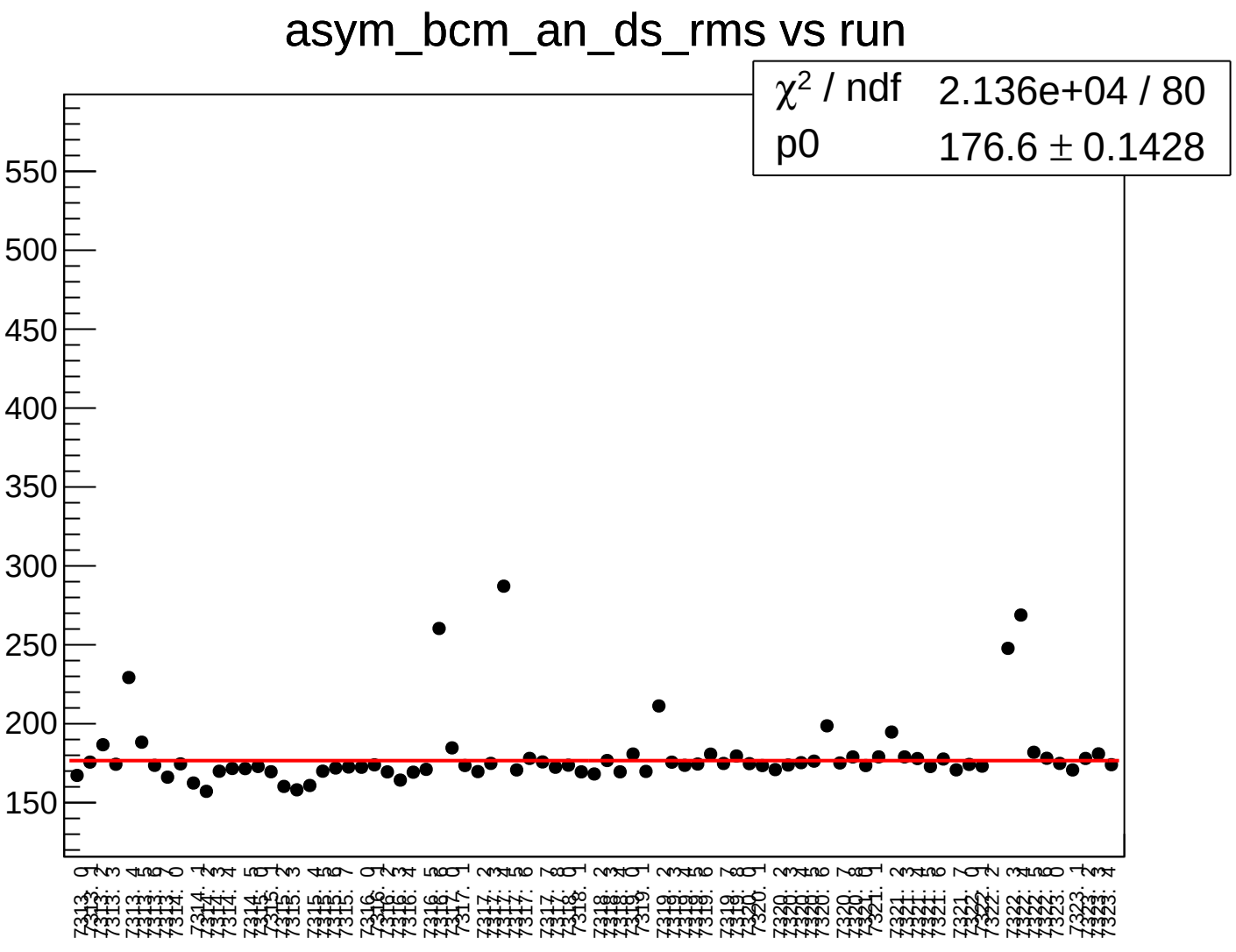

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 8244 / 80
p0 1.294e+05 ± 0.297
129.48
129.46
129.44
129.42
129.4
129.38
129.36
pull
Entries 81
Mean 1.201e+05
Std Dev 1.2e+05
20
15
10
5
0
−5
−10
−15
−20

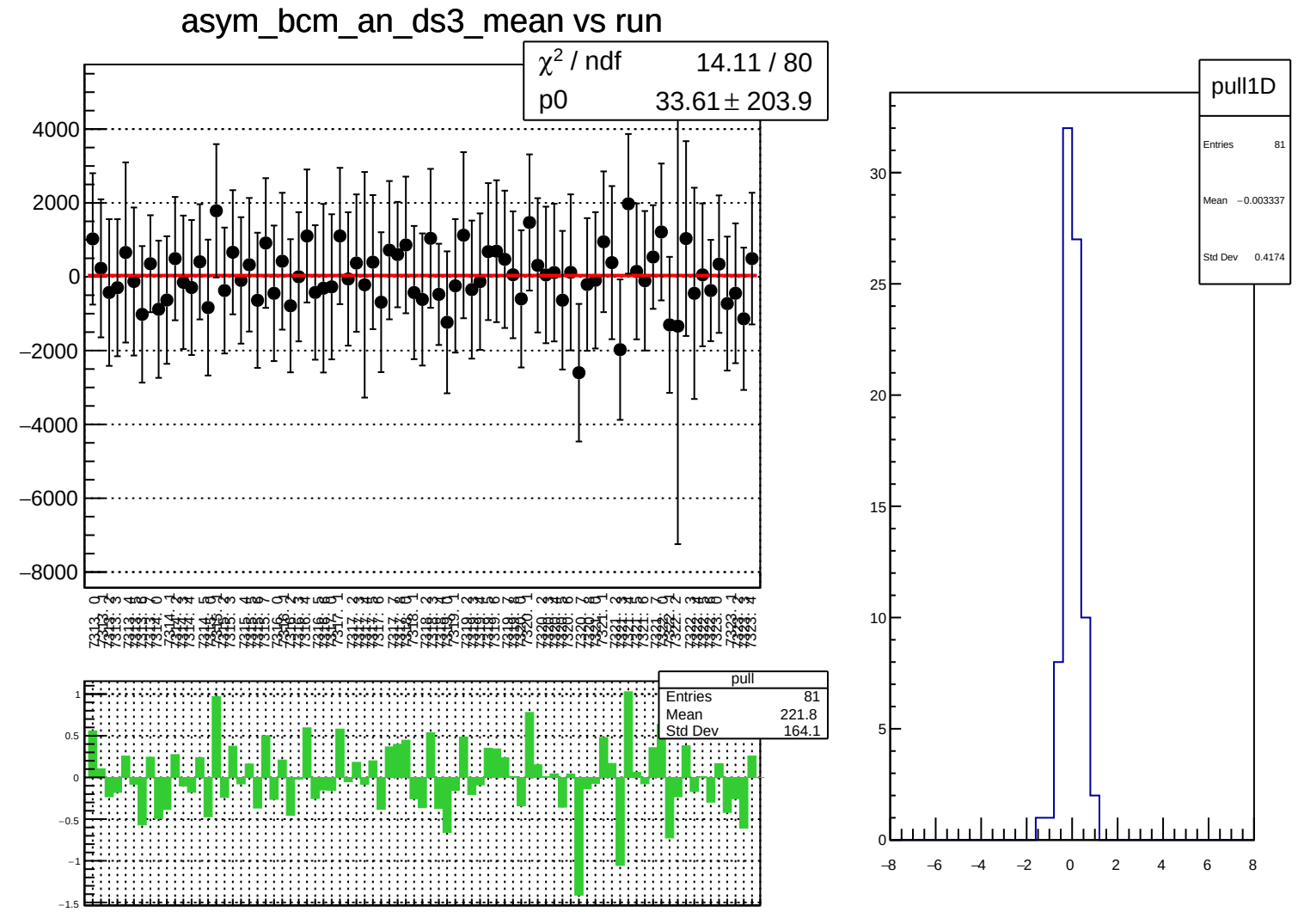

pull1D
Entries 81
Mean 0.9239
Std Dev 4.468
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

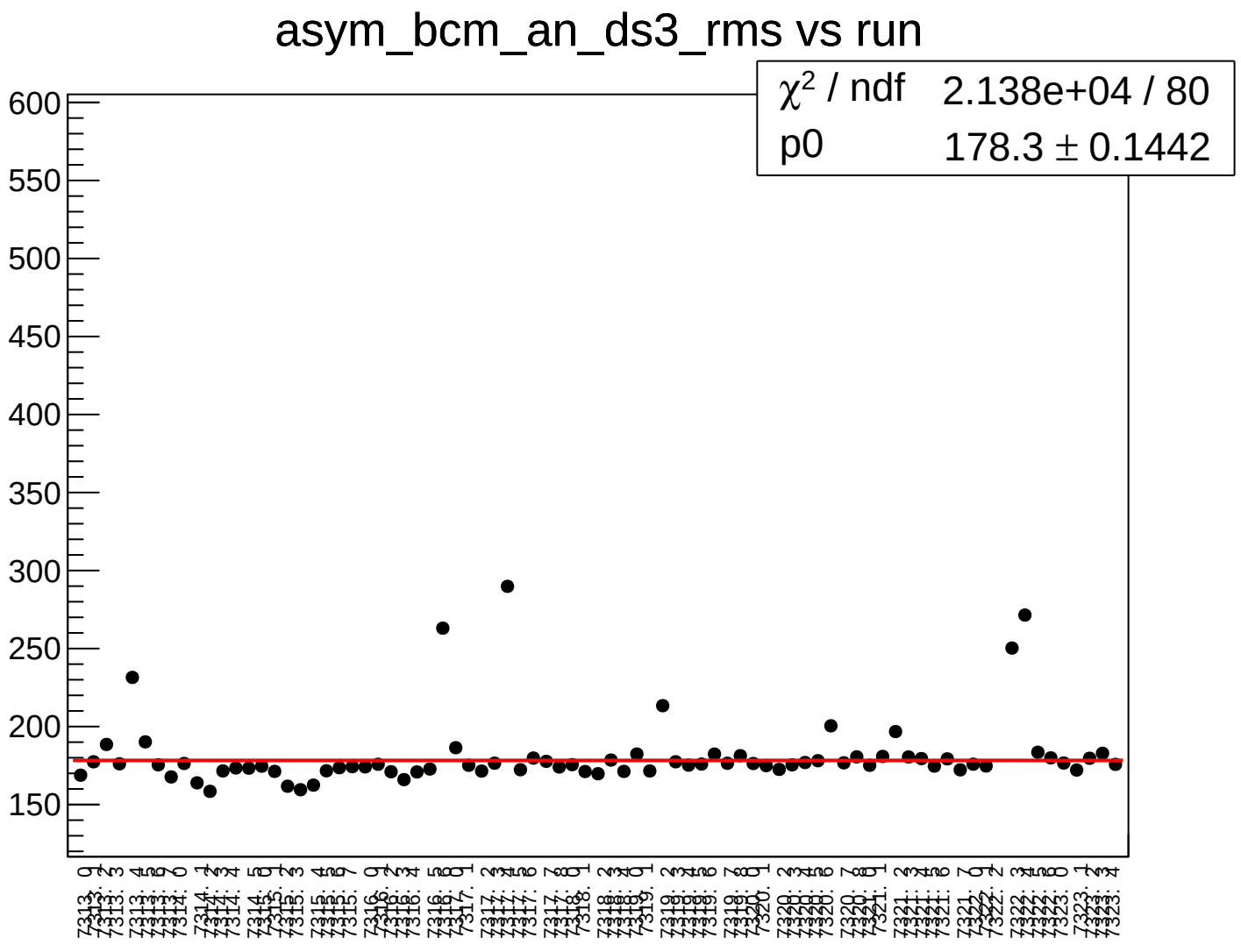

yield_bpm2i02WS_rms vs run
χ^2 / ndf 1157 / 80
p0 261.4 ± 0.21
280
275
270
265
260
255
250
245
240

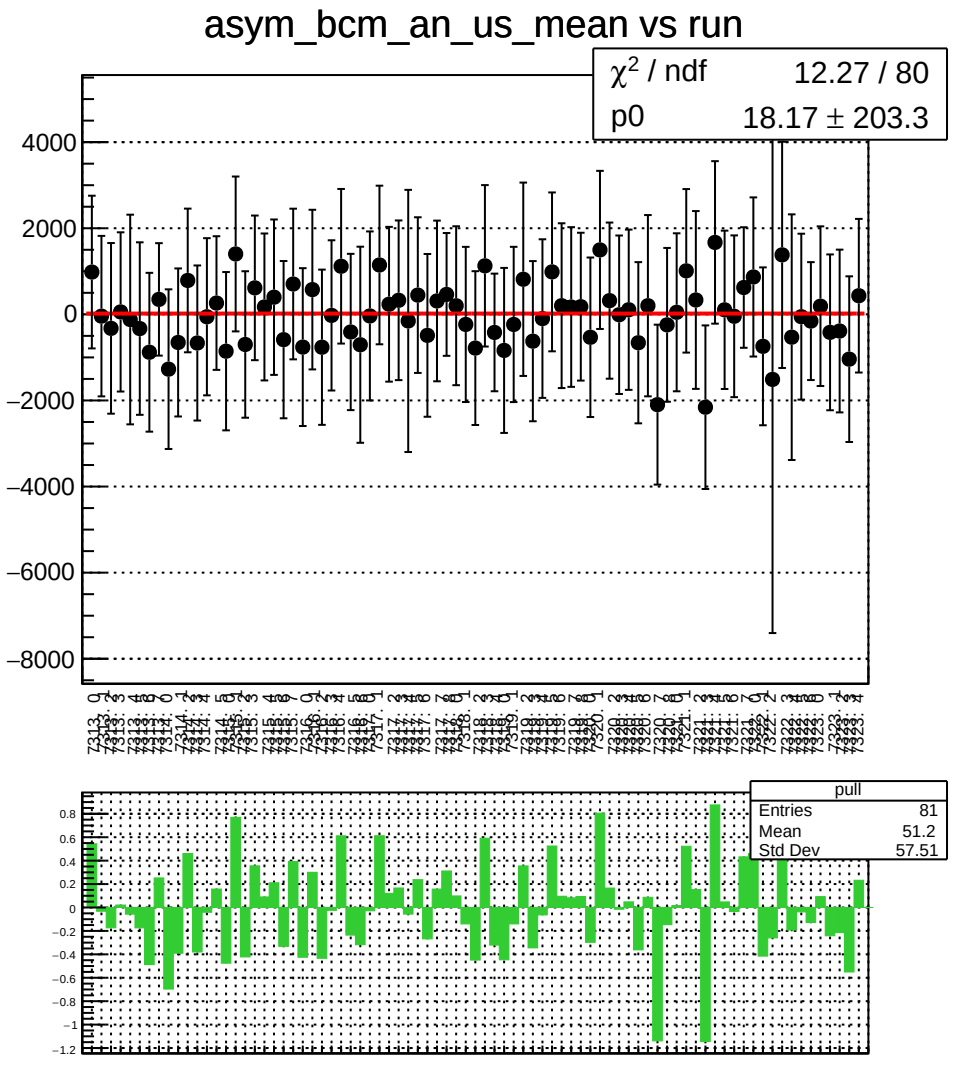

asym_bcm_an_ds_mean vs run
χ² / ndf 14.22 / 80
p0 31.6 ± 202
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 297.3
Std Dev 244.5
1
0.5
0
−0.5
−1

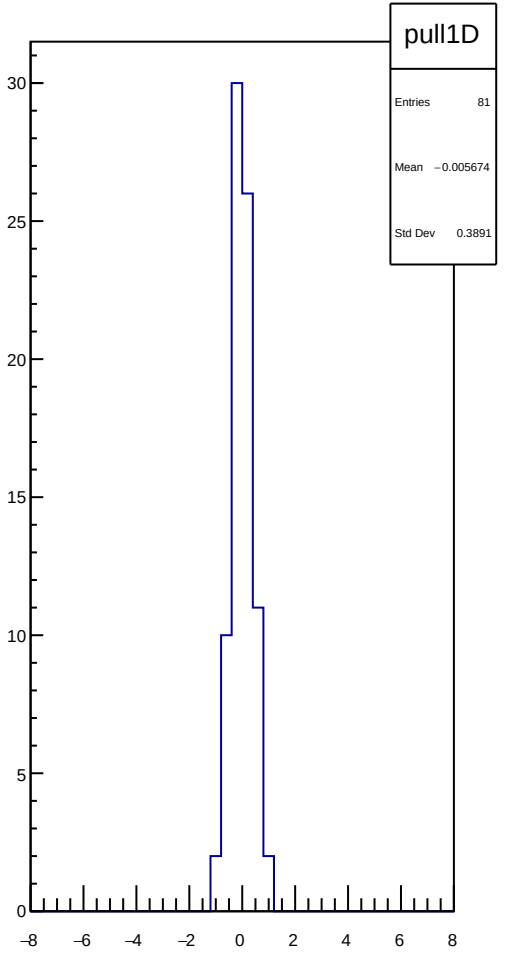

pull1D
Entries 81
Mean −0.002603
Std Dev 0.419
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

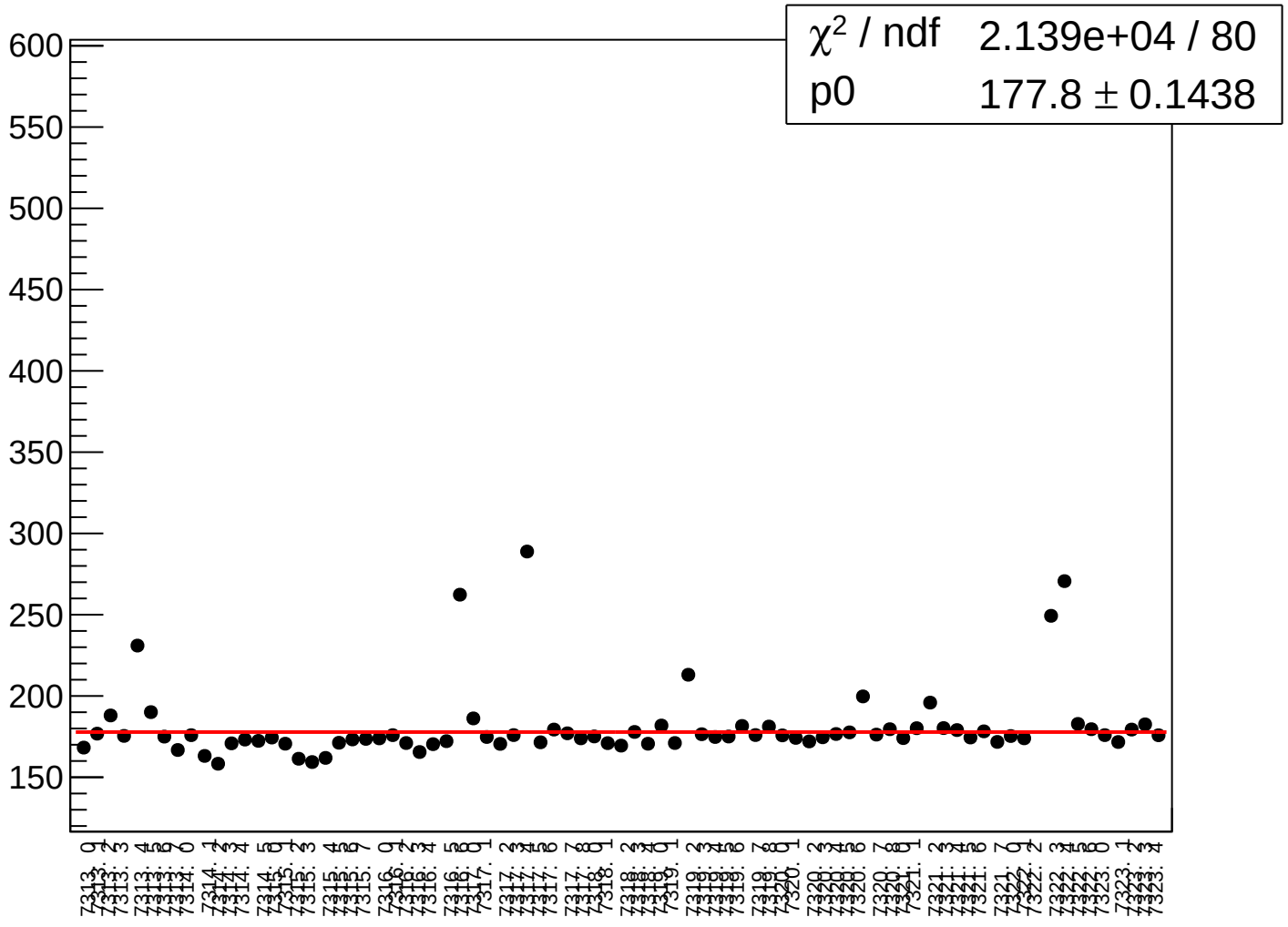

asym_bcm_an_ds_rms vs run
χ^2 / ndf 2.136e+04 / 80
p0 176.6 ± 0.1428
550
500
450
400
350
300
250
200
150

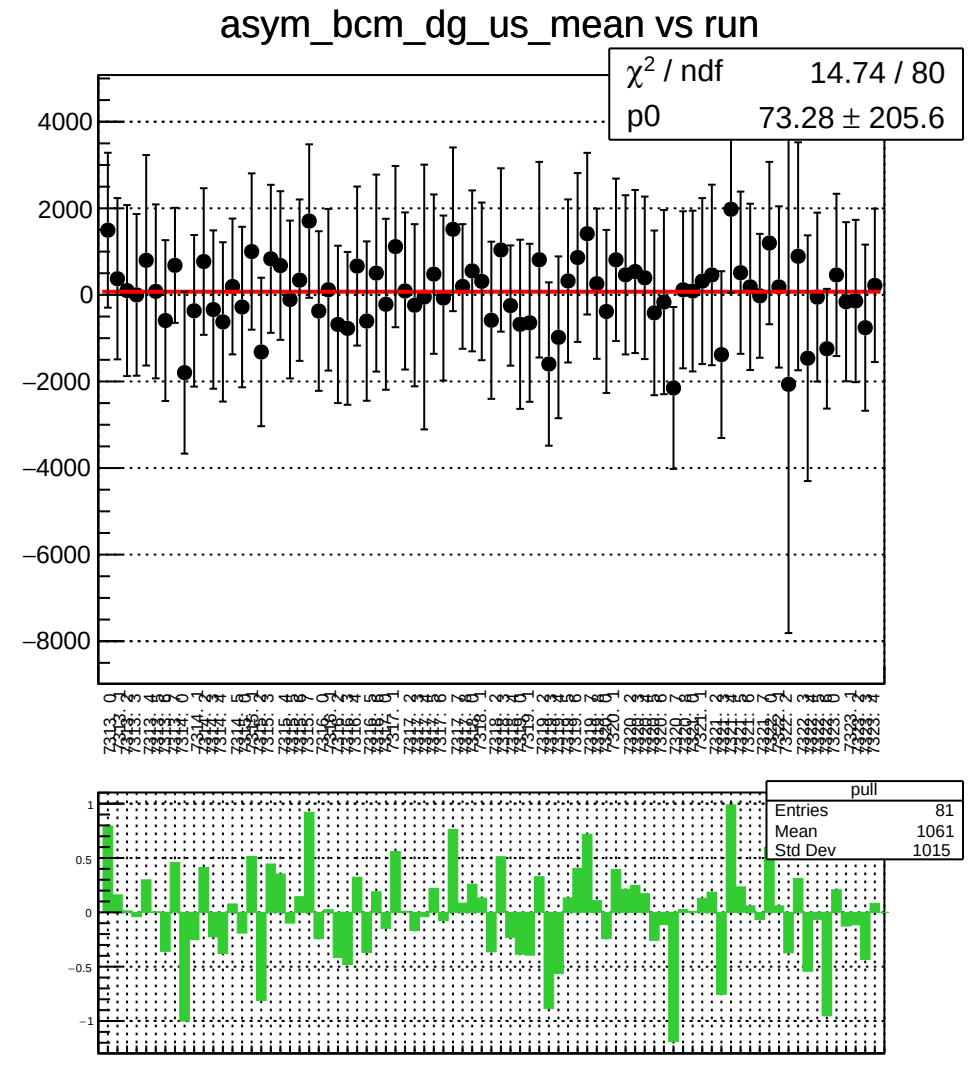

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.11 / 80
p0 33.61 ± 203.9
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 221.8
Std Dev 164.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.003337
Std Dev 0.4174
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

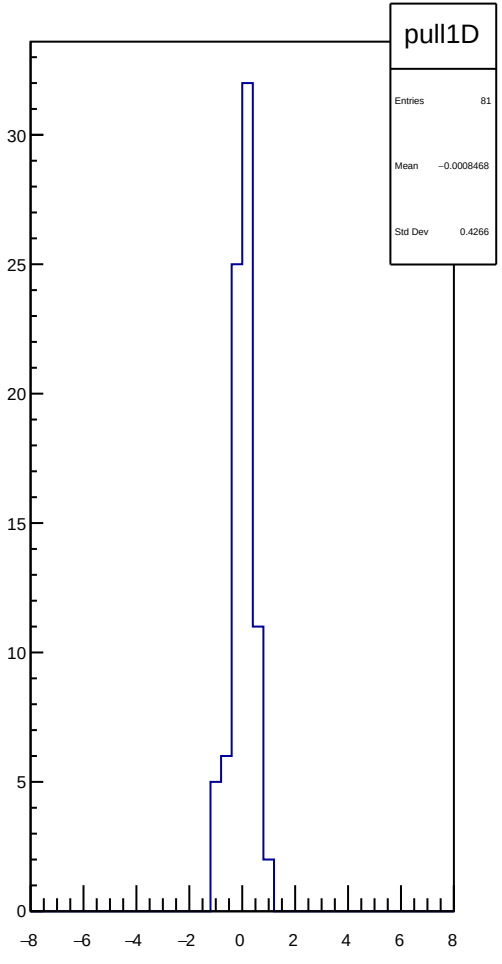

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2.138e+04 / 80
p0 178.3 ± 0.1442
600
550
500
450
400
350
300
250
200
150

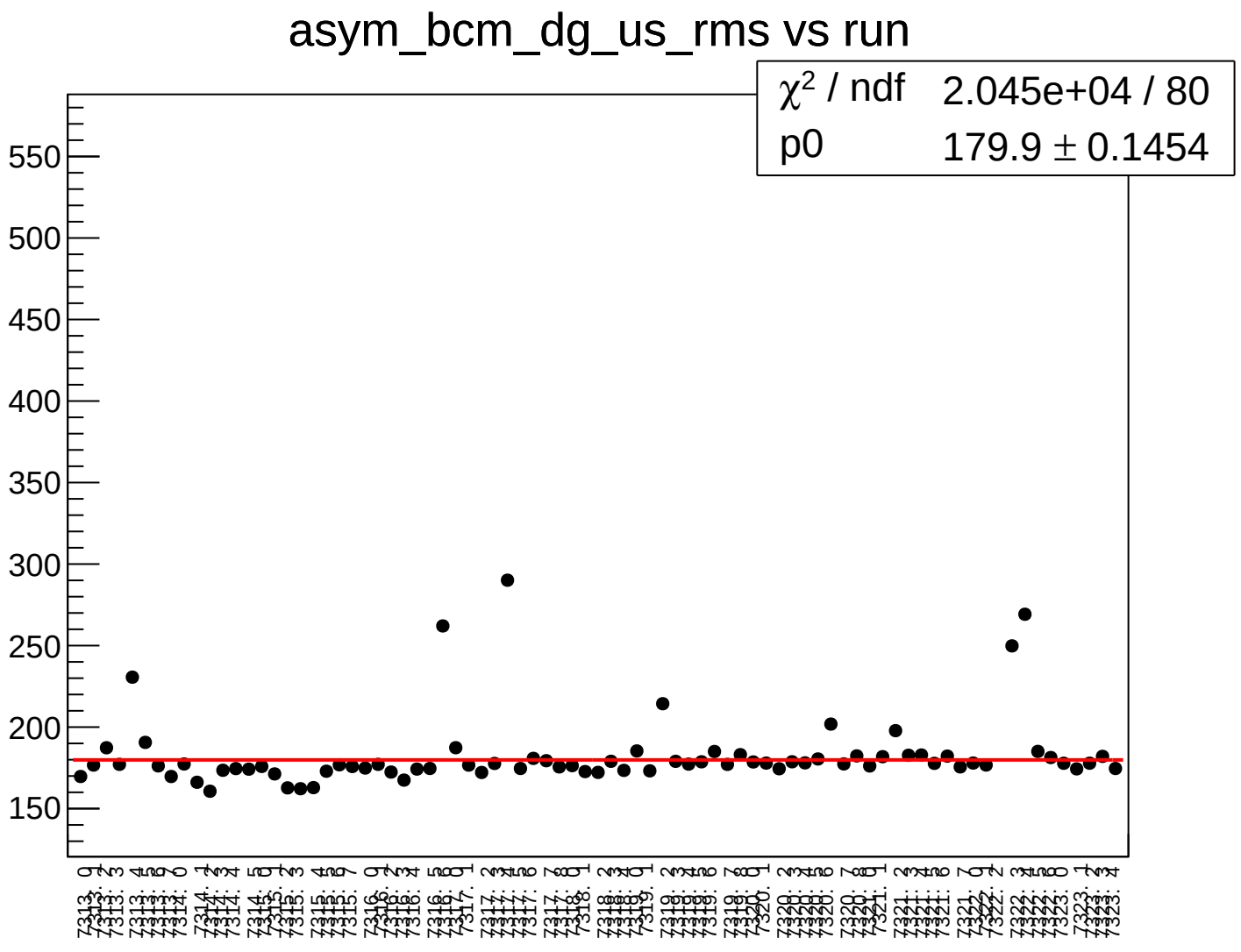

asym_bcm_an_us_mean vs run
χ² / ndf 12.27 / 80
p0 18.17 ± 203.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 51.2
Std Dev 57.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

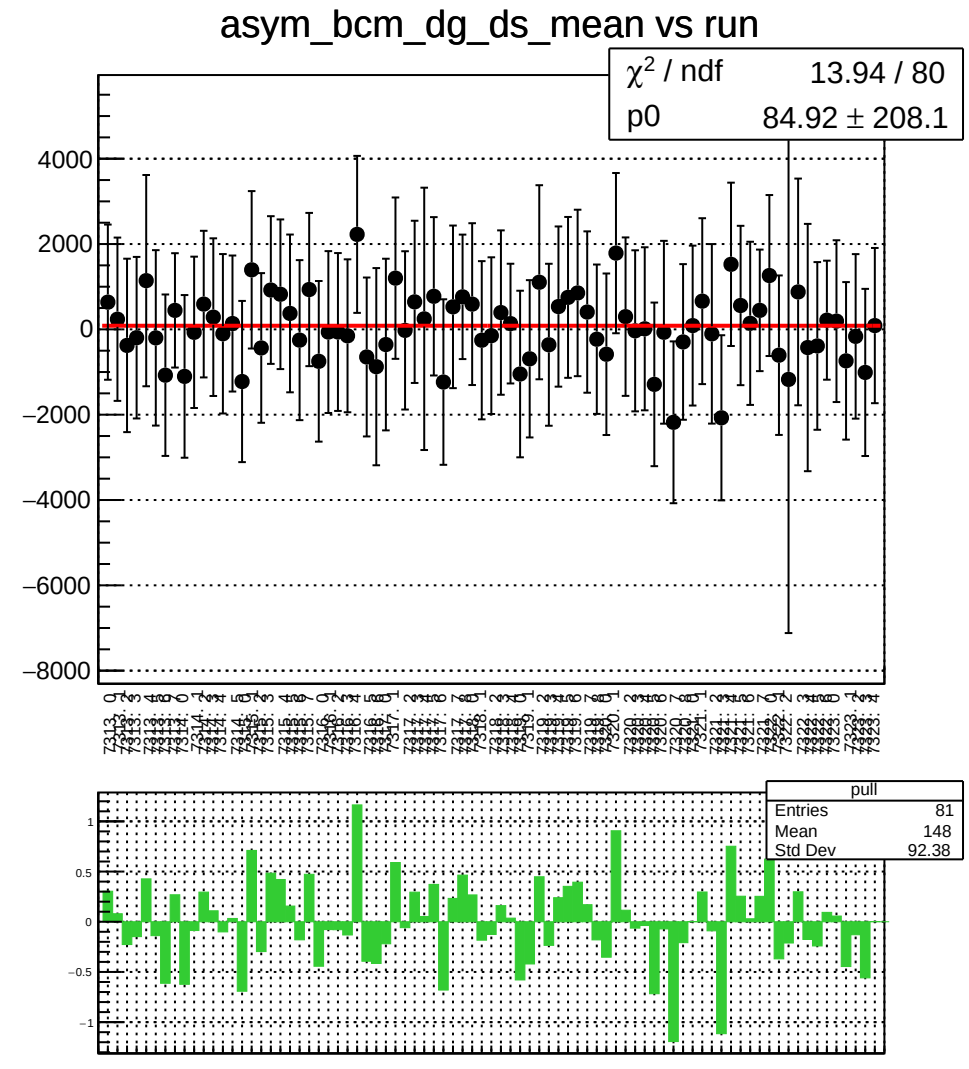

pull1D
Entries 81
Mean −0.005674
Std Dev 0.3891
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

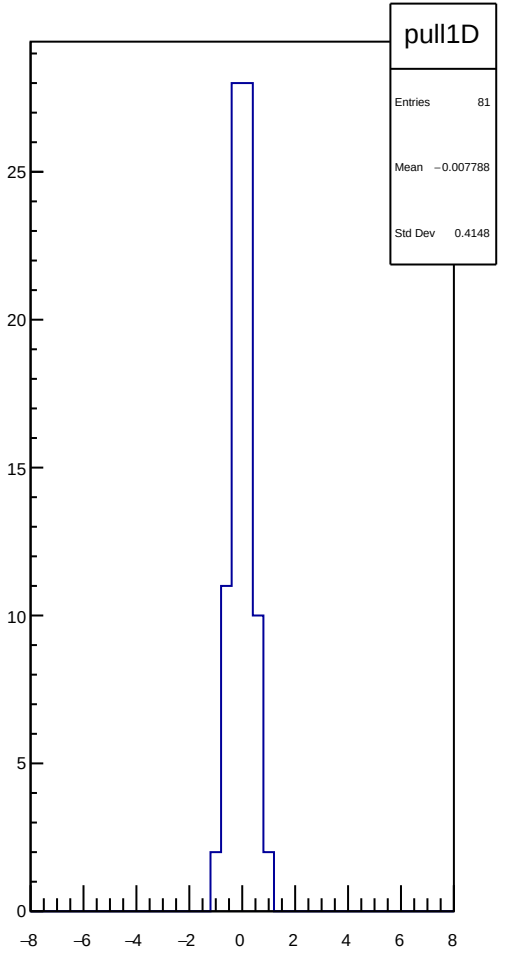

asym_bcm_an_us_rms vs run
χ^2 / ndf 2.139e+04 / 80
p0 177.8 ± 0.1438
600
550
500
450
400
350
300
250
200
150

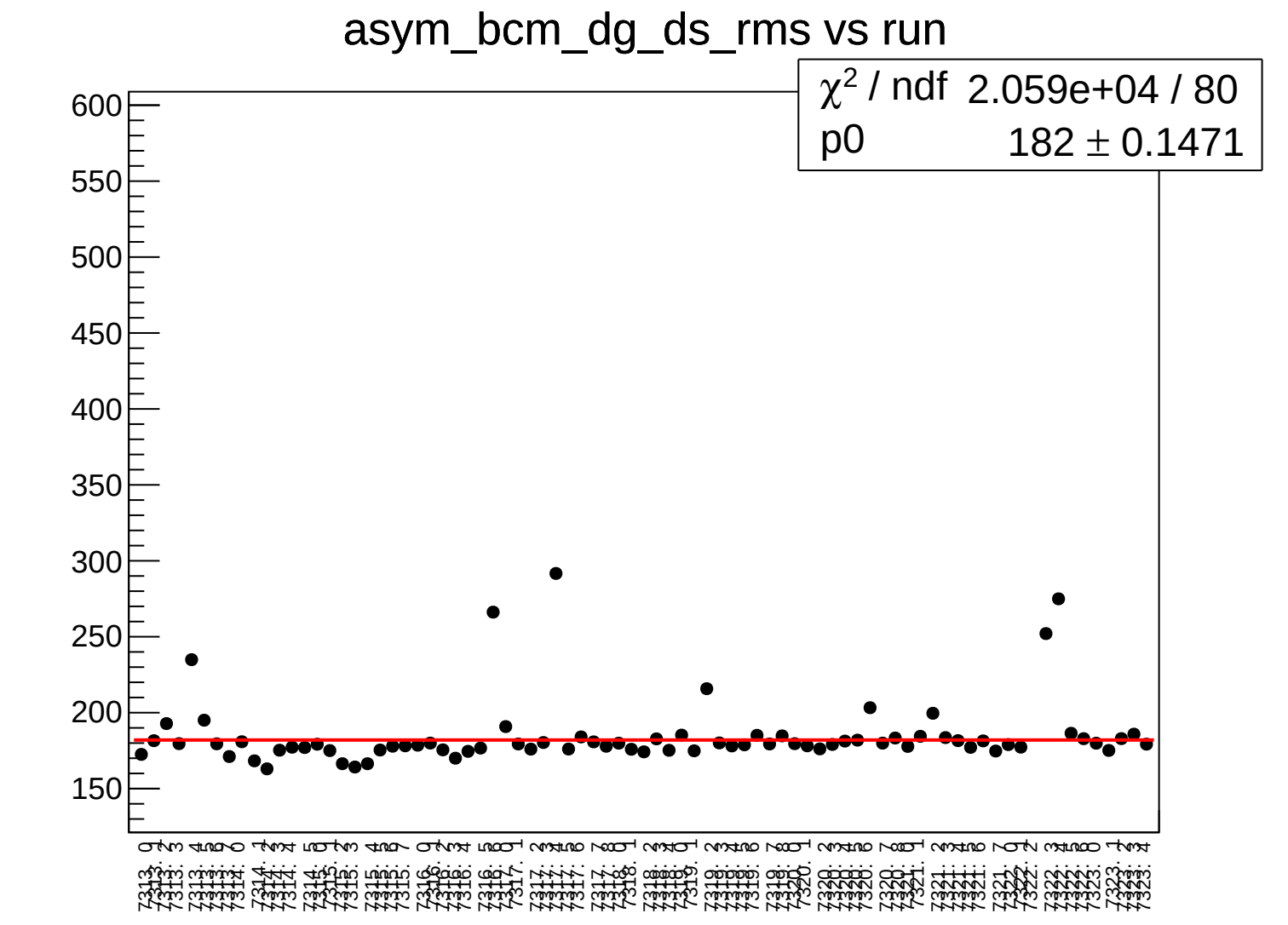

asym_bcm_dg_us_mean vs run
χ² / ndf 14.74 / 80
p0 73.28 ± 205.6
pull
Entries 81
Mean 1061
Std Dev 1015

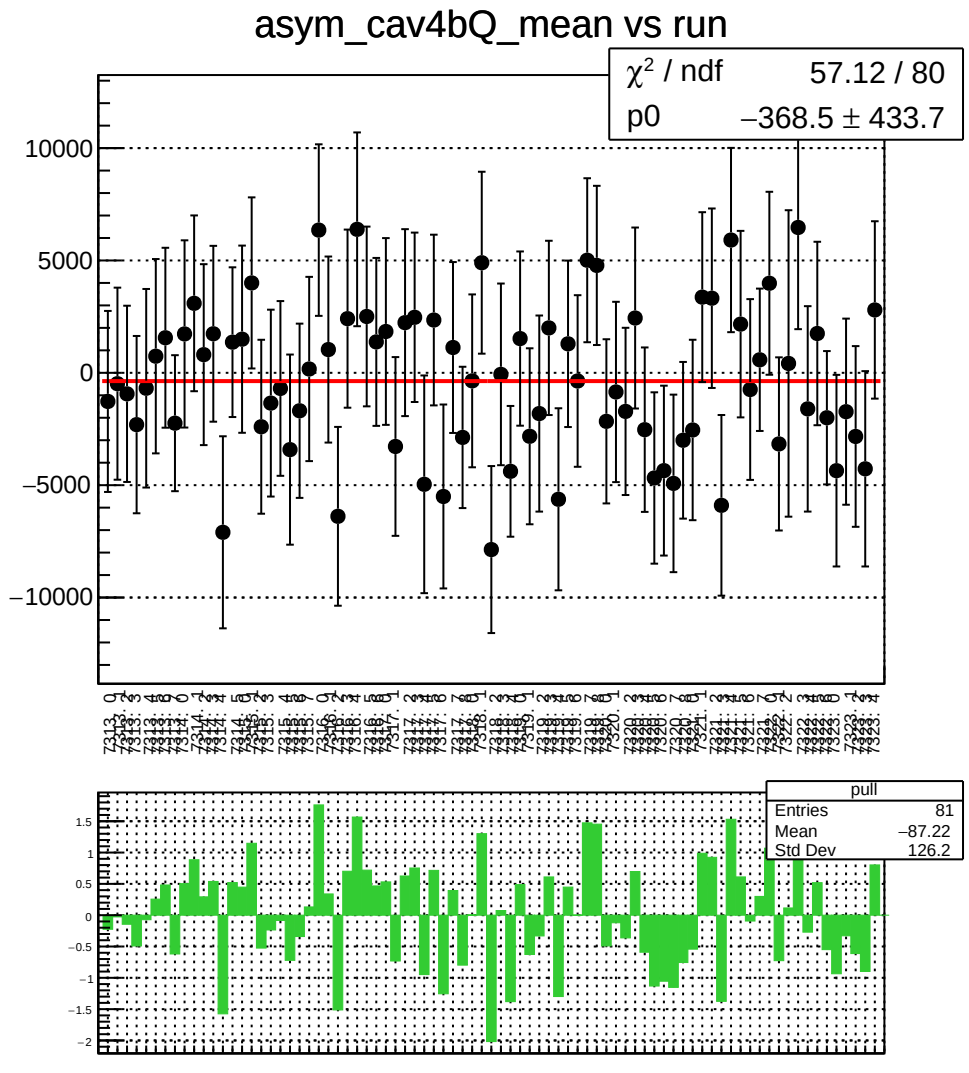

pull1D
Entries 81
Mean −0.0008468
Std Dev 0.4266

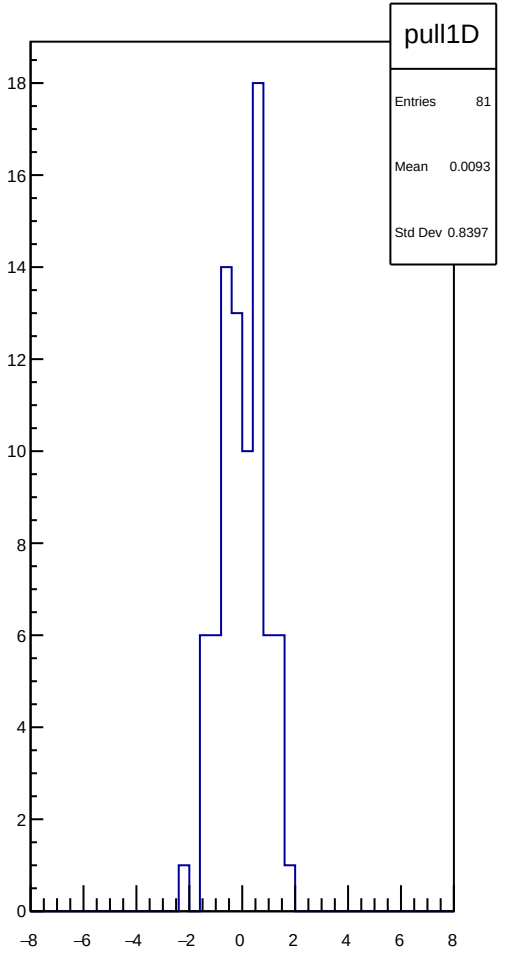

asym_bcm_dg_us_rms vs run
χ² / ndf 2.045e+04 / 80
p0 179.9 ± 0.1454
550
500
450
400
350
300
250
200
150

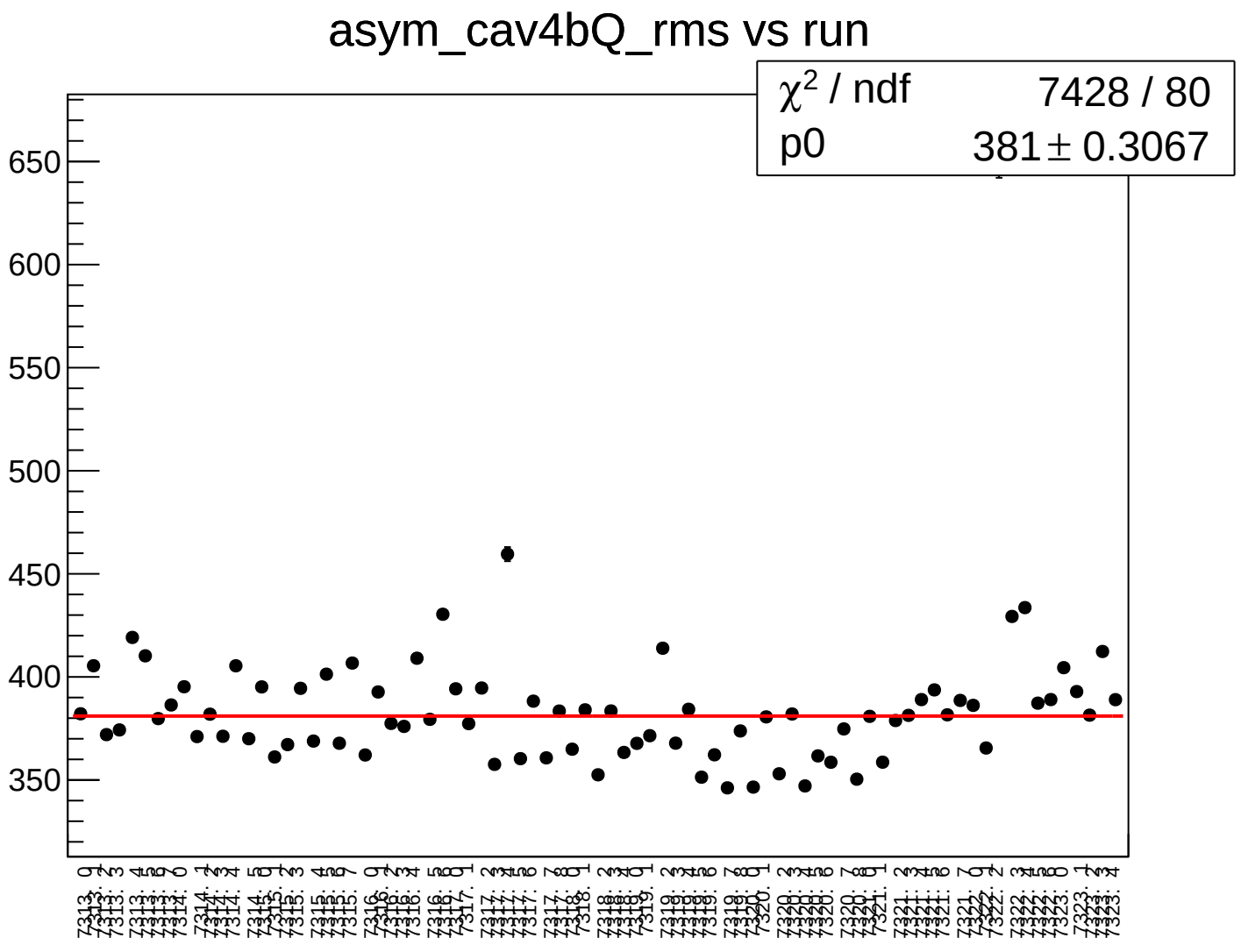

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.94 / 80
p0 84.92 ± 208.1
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 148
Std Dev 92.38
1
0.5
0
−0.5
−1

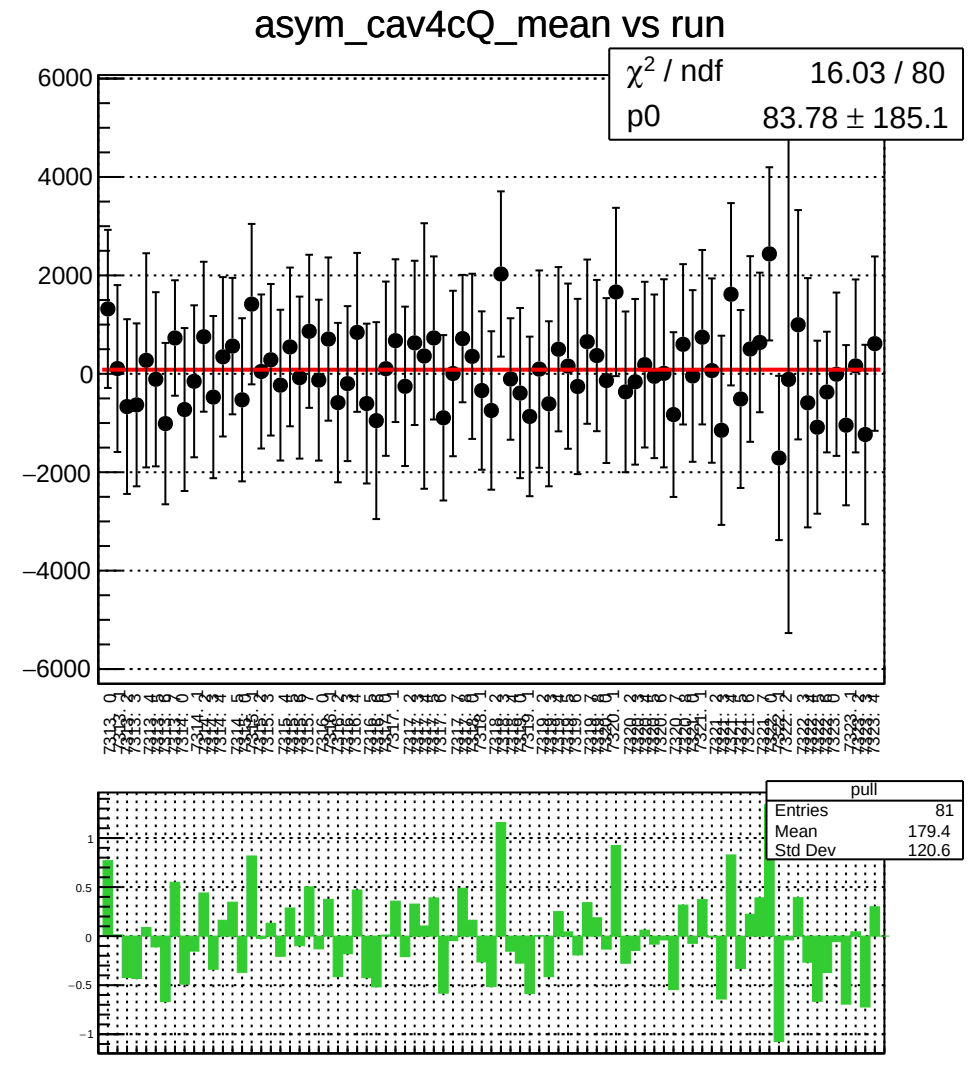

pull1D
Entries 81
Mean −0.007788
Std Dev 0.4148
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

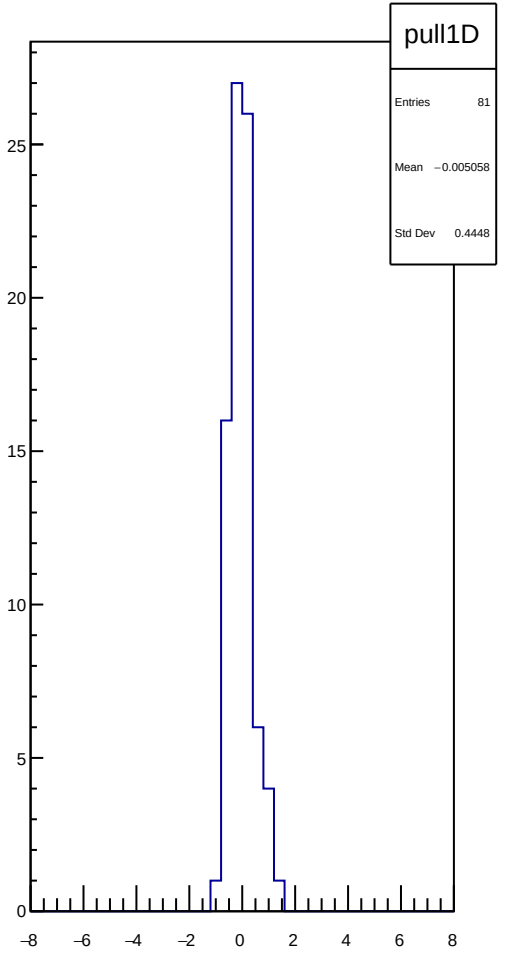

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2.059e+04 / 80
p0 182 ± 0.1471
600
550
500
450
400
350
300
250
200
150

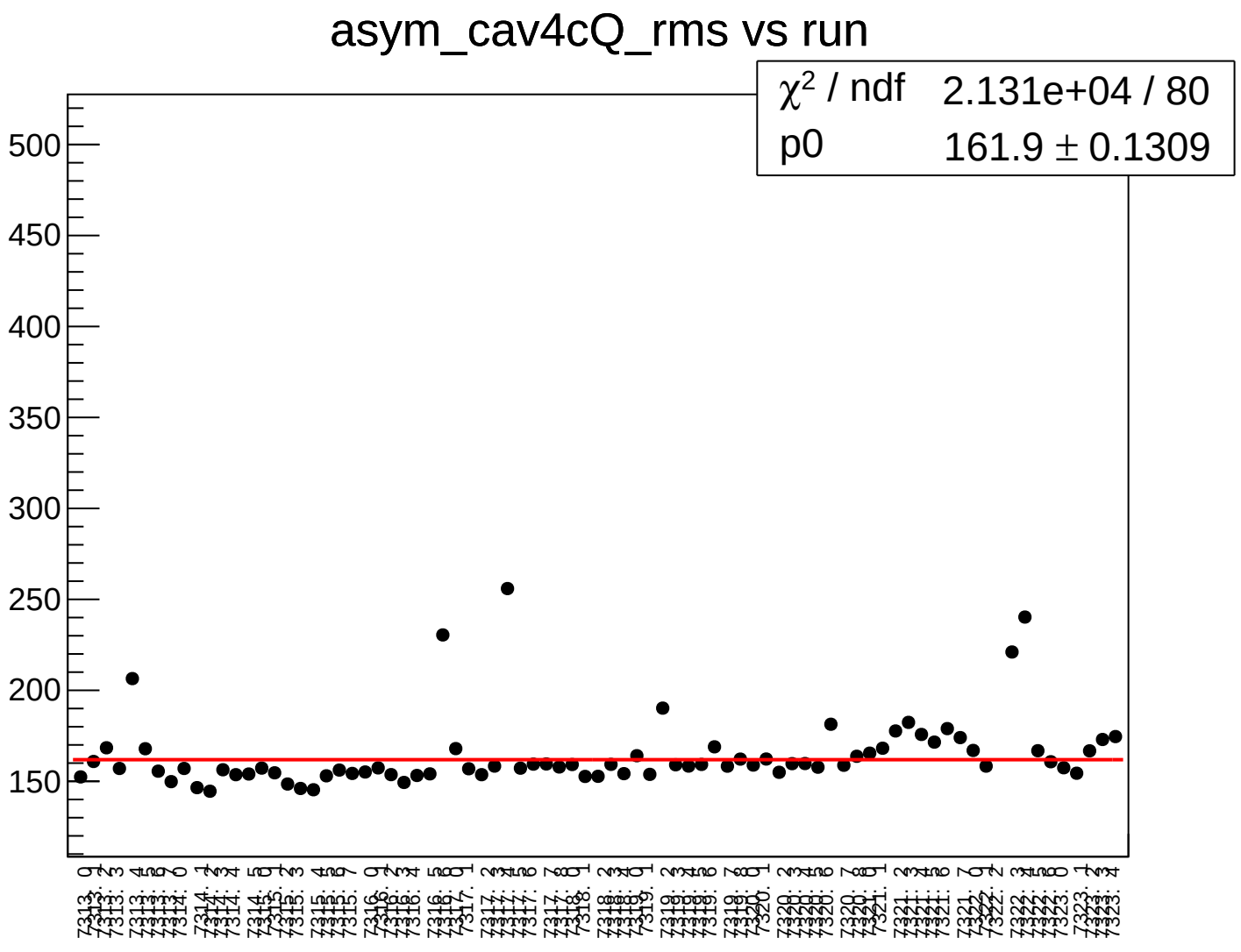

asym_cav4bQ_mean vs run
χ² / ndf 57.12 / 80
p0 −368.5 ± 433.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −87.22
Std Dev 126.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

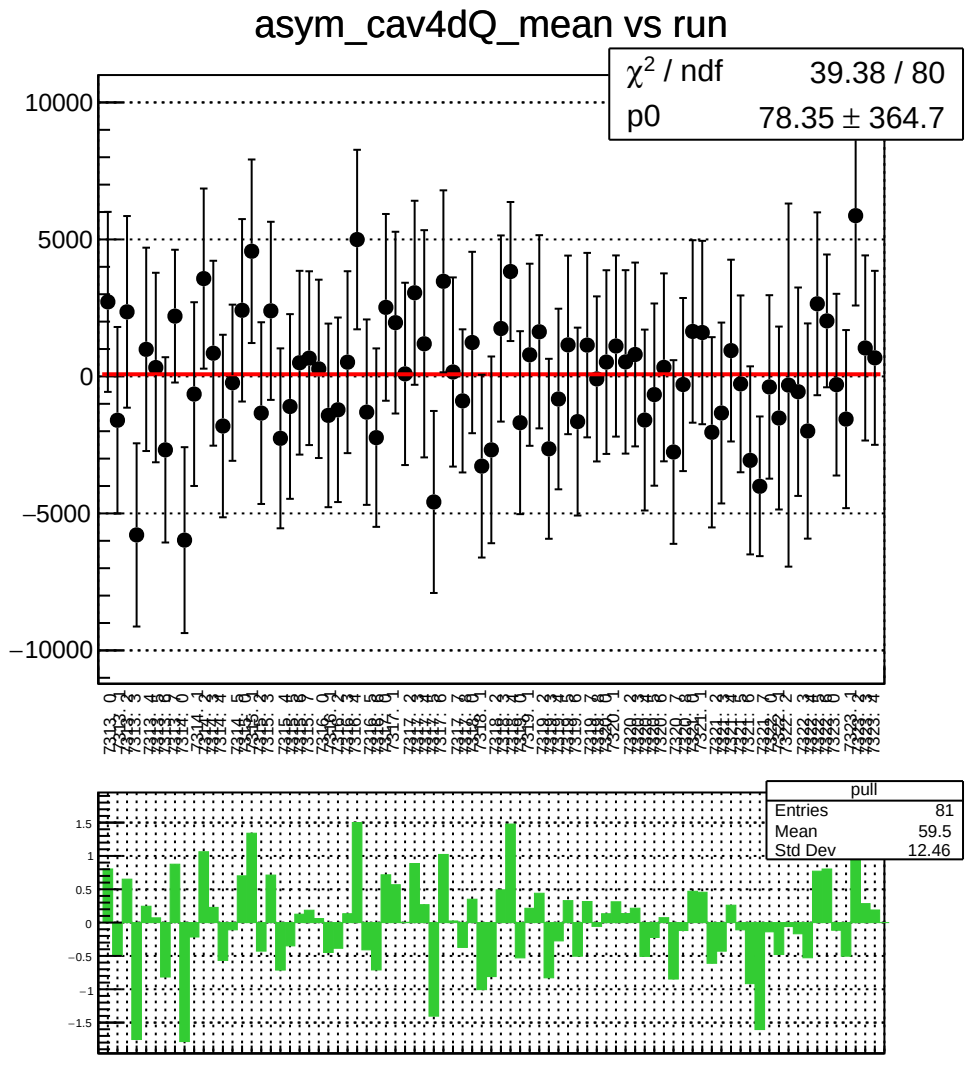

pull1D
Entries 81
Mean 0.0093
Std Dev 0.8397
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

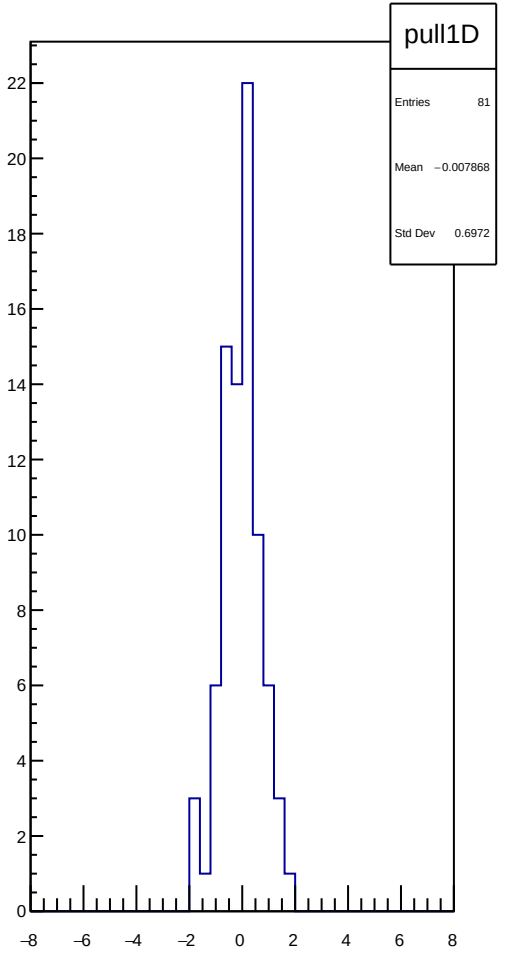

asym_cav4bQ_rms vs run
χ² / ndf 7428 / 80
p0 381 ± 0.3067
650
600
550
500
450
400
350

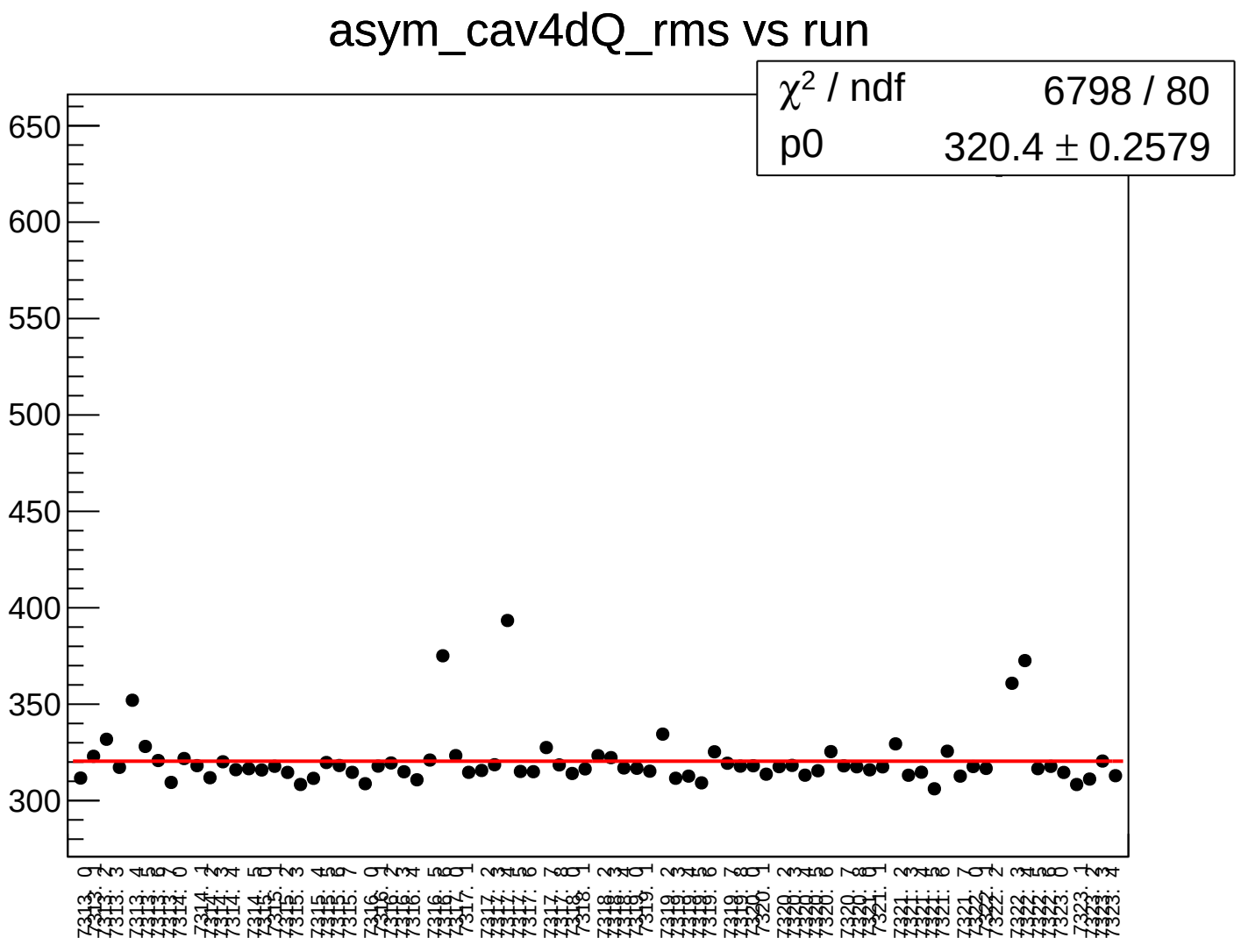

asym_cav4cQ_mean vs run
χ² / ndf 16.03 / 80
p0 83.78 ± 185.1
pull
Entries 81
Mean 179.4
Std Dev 120.6

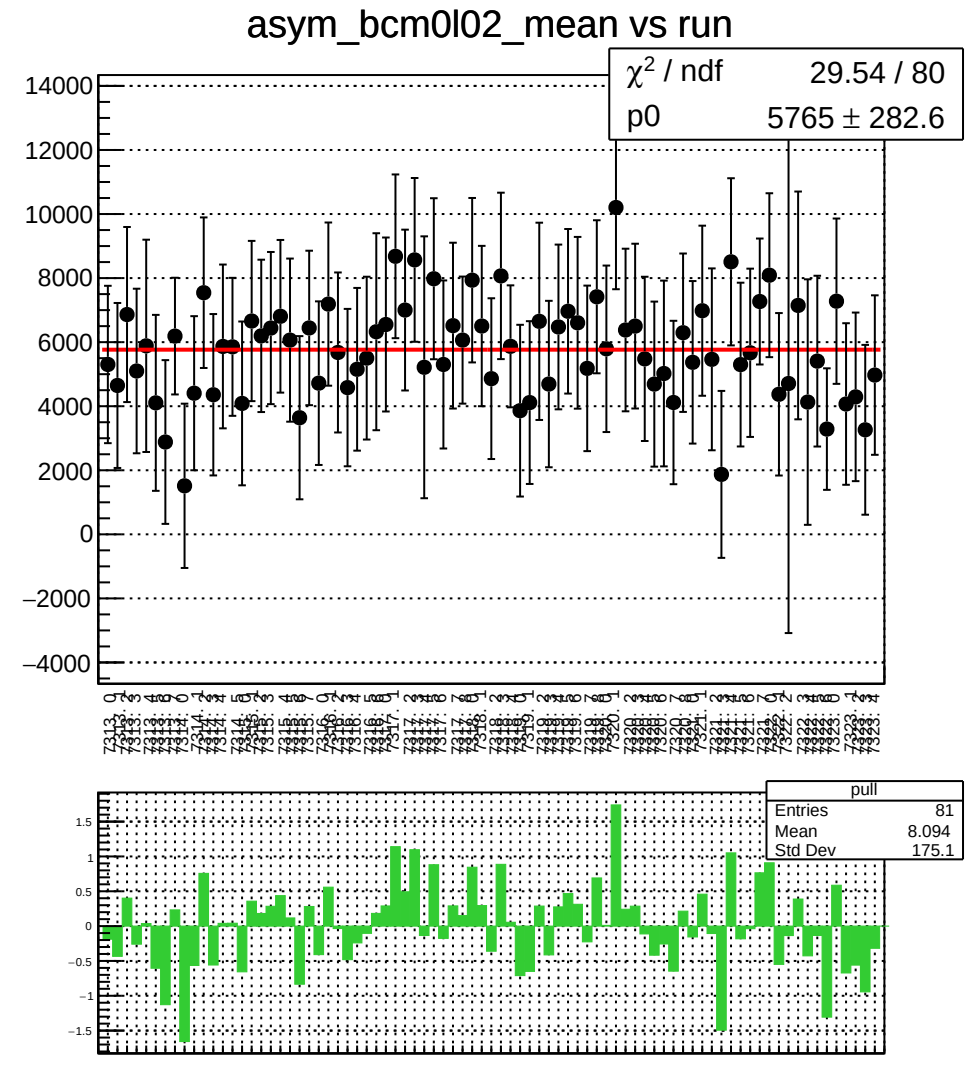

pull1D
Entries 81
Mean −0.005058
Std Dev 0.4448

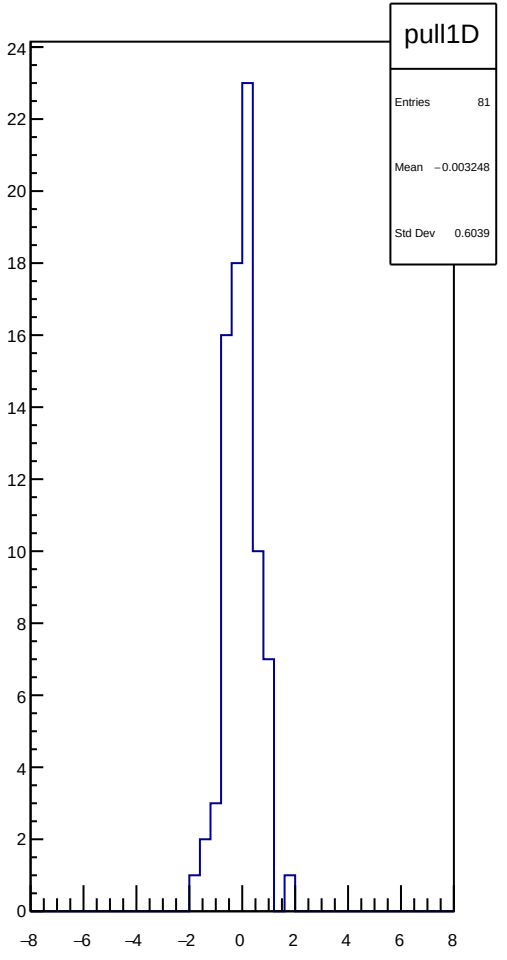

asym_cav4cQ_rms vs run
χ² / ndf 2.131e+04 / 80
p0 161.9 ± 0.1309
500
450
400
350
300
250
200
150

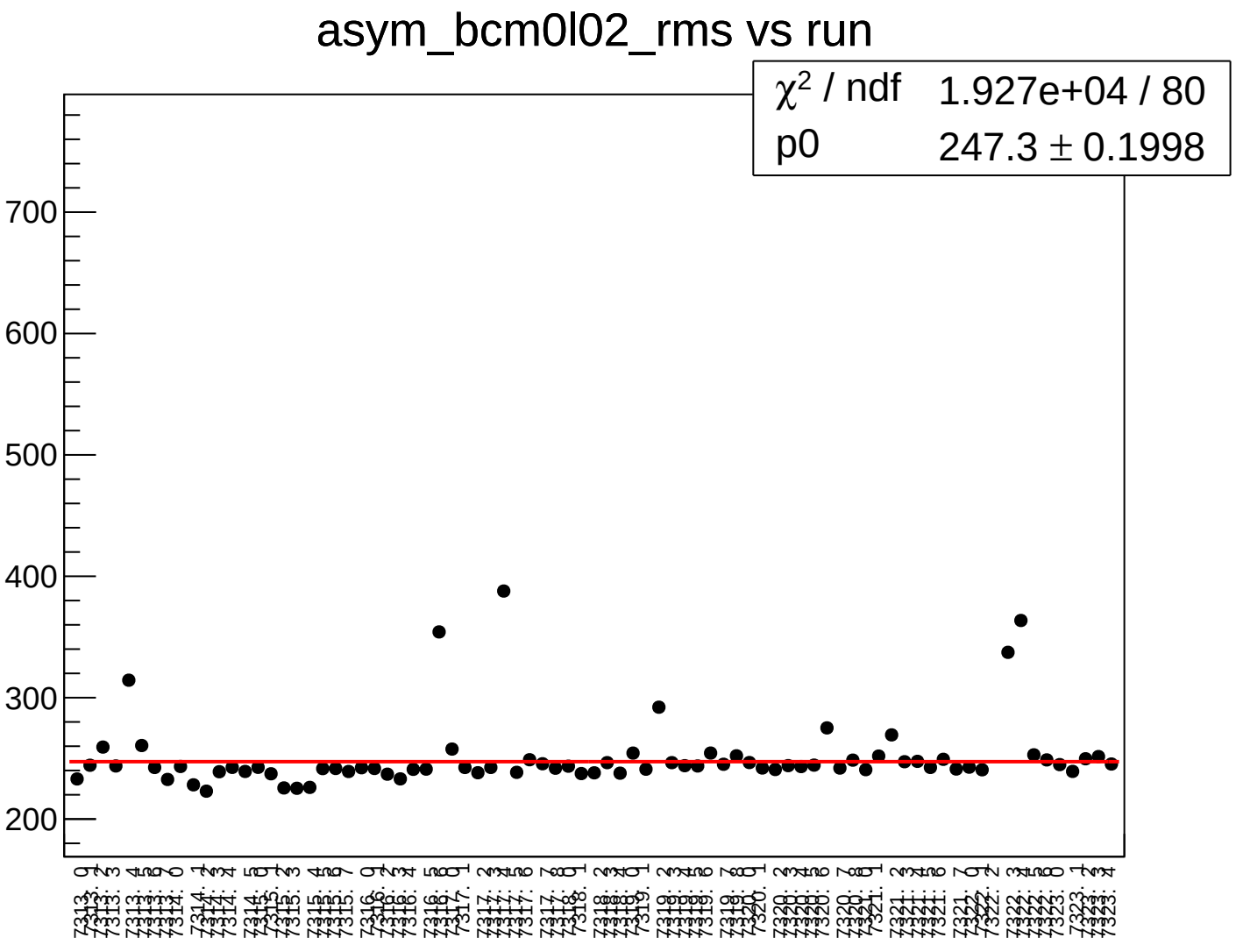

asym_cav4dQ_mean vs run
χ² / ndf 39.38 / 80
p0 78.35 ± 364.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 59.5
Std Dev 12.46
1.5
1
0.5
0
−0.5
−1
−1.5

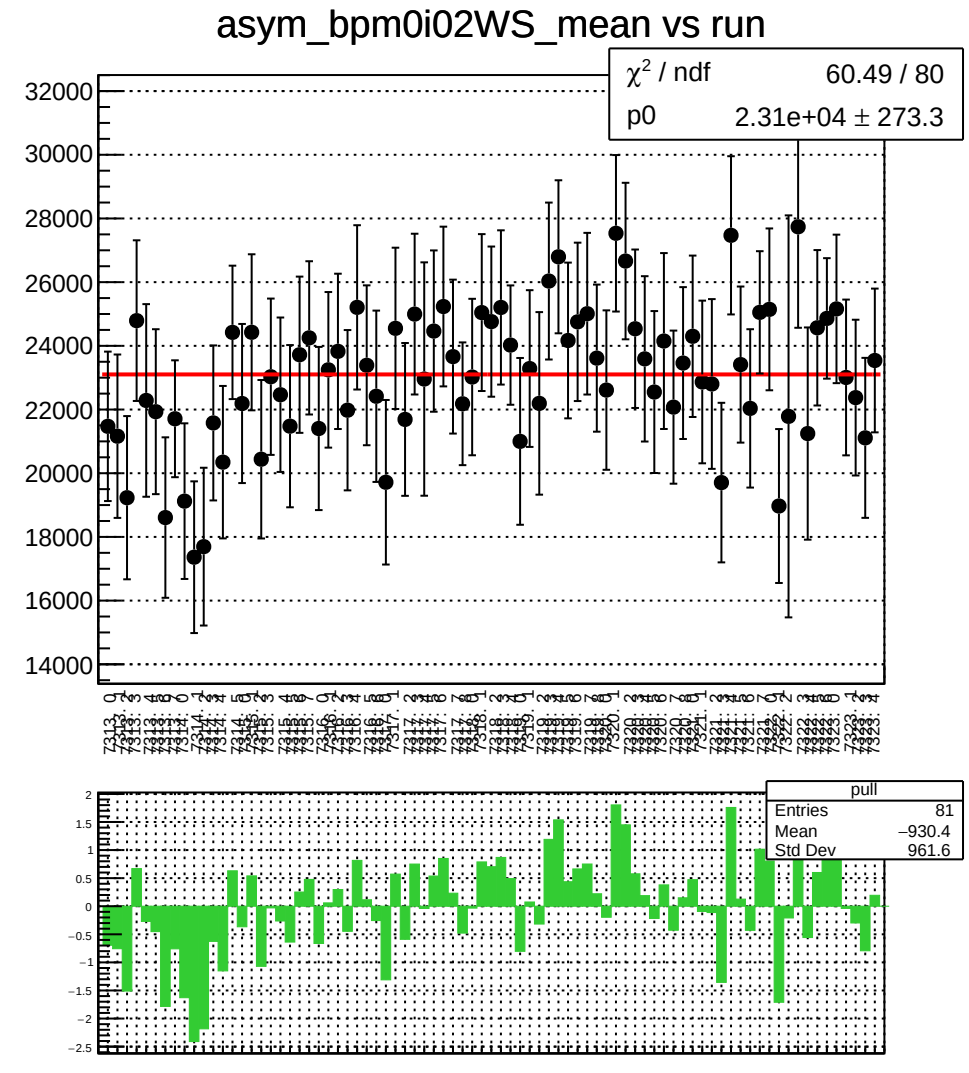

pull1D
Entries 81
Mean −0.007868
Std Dev 0.6972
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

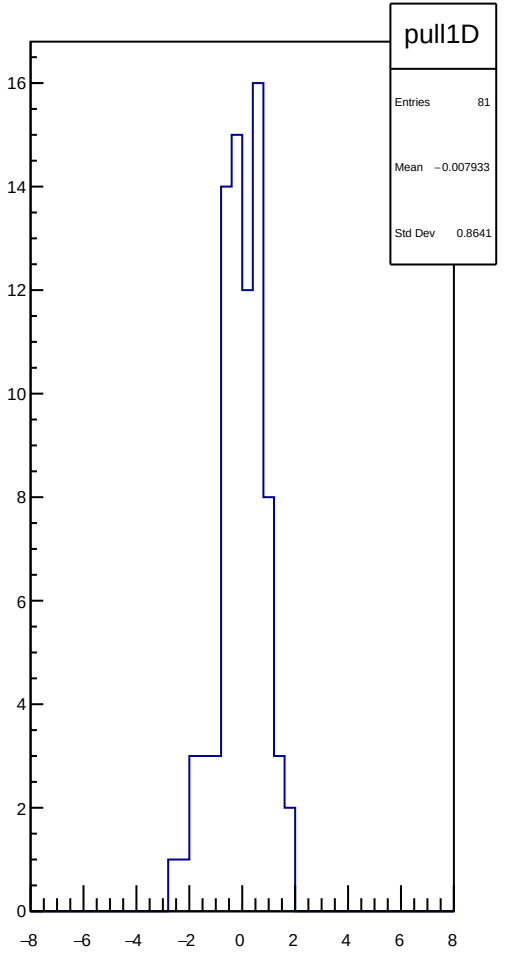

asym_cav4dQ_rms vs run
χ² / ndf 6798 / 80
p0 320.4 ± 0.2579
650
600
550
500
450
400
350
300

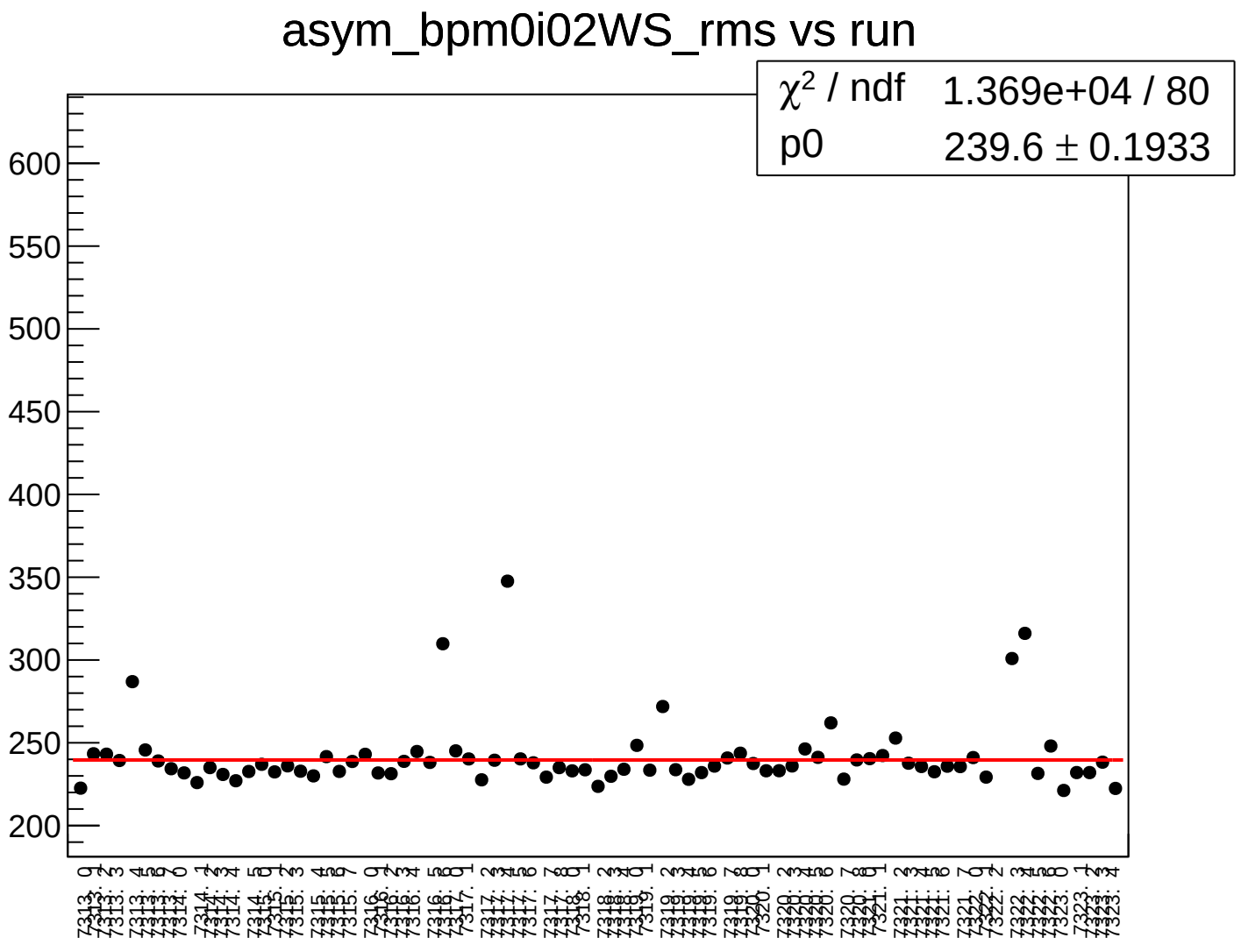

asym_bcm0l02_mean vs run
χ² / ndf 29.54 / 80
p0 5765 ± 282.6
pull
Entries 81
Mean 8.094
Std Dev 175.1

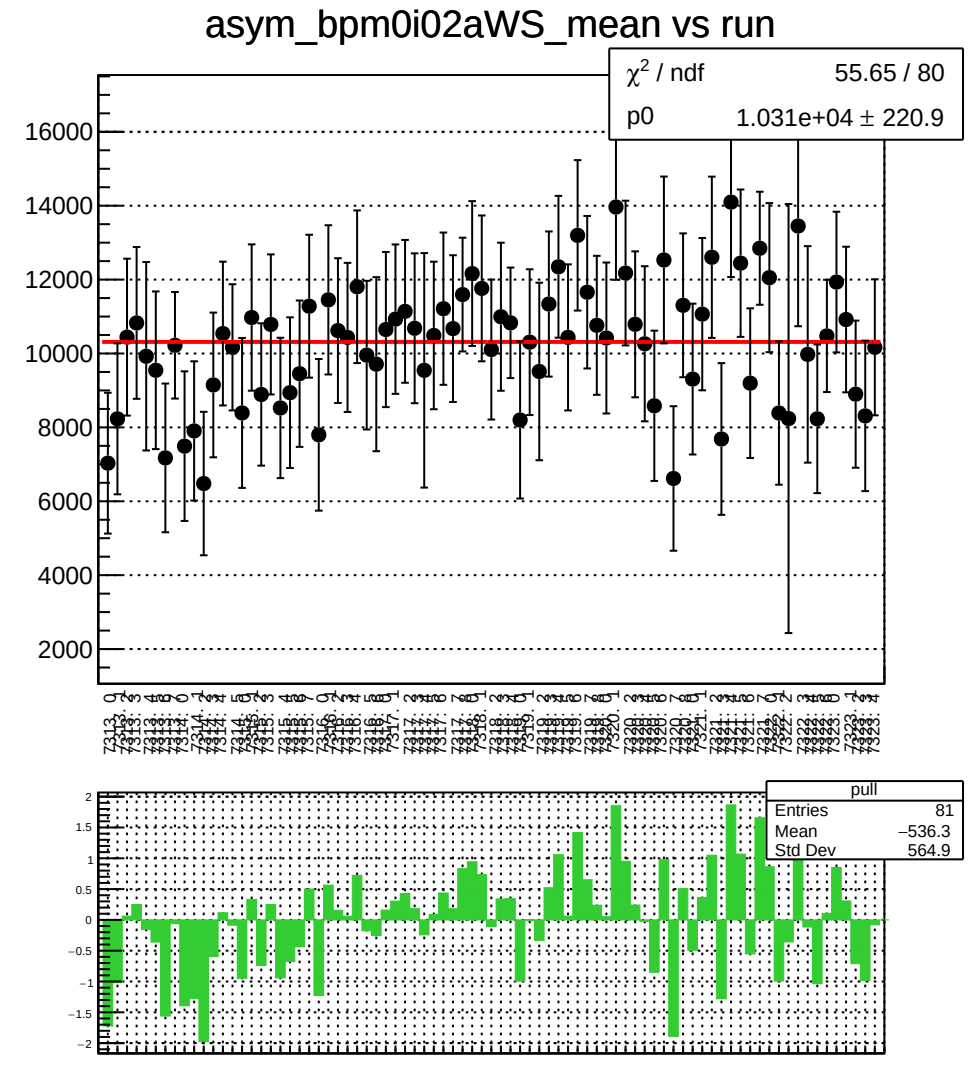

pull1D
Entries 81
Mean −0.003248
Std Dev 0.6039

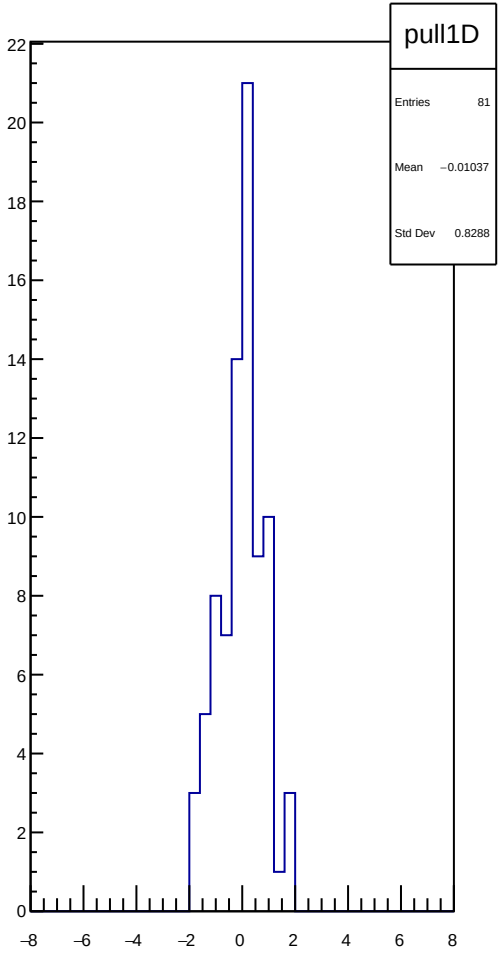

asym_bcm0l02_rms vs run
χ^2 / ndf 1.927e+04 / 80
p0 247.3 ± 0.1998
700
600
500
400
300
200

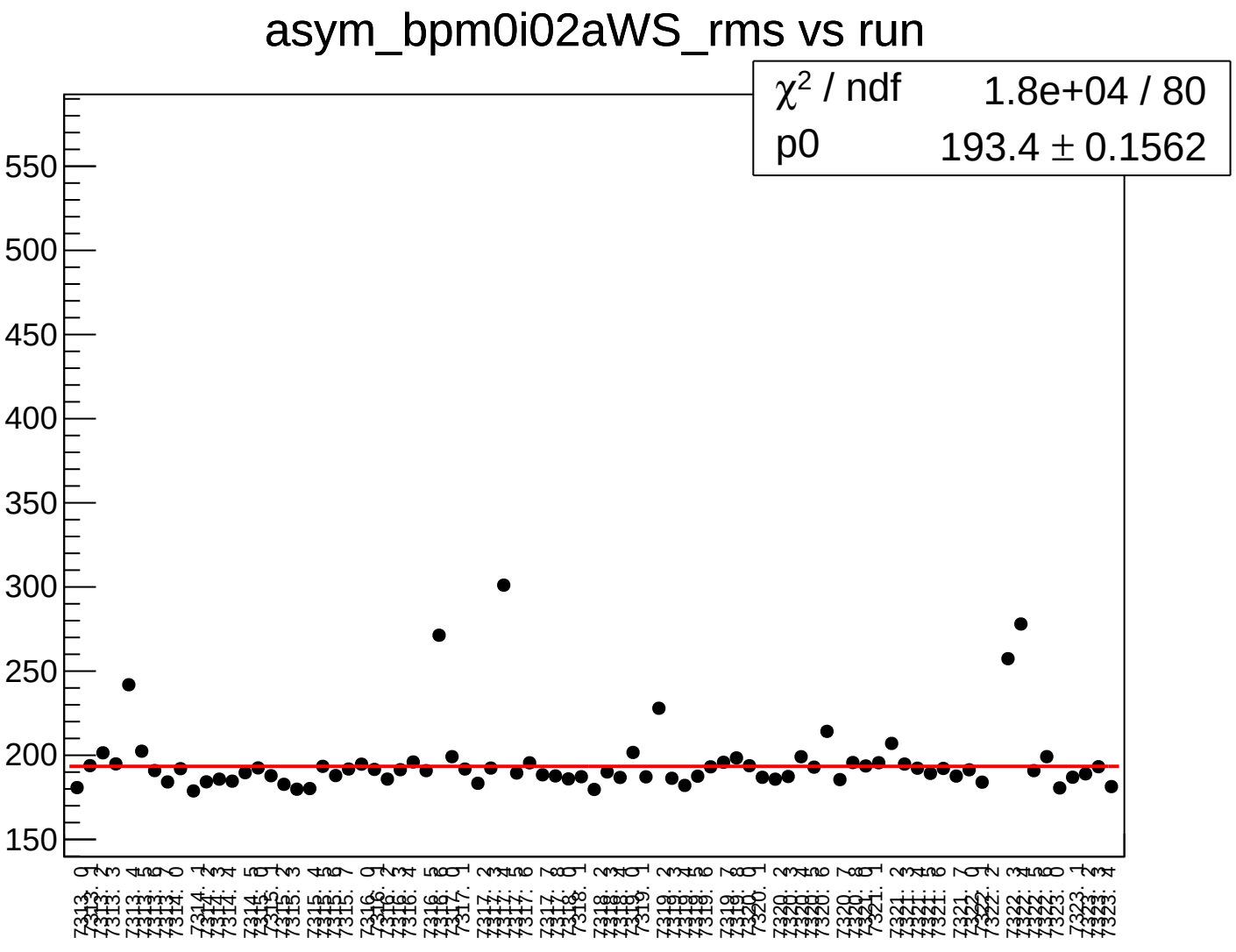

asym_bpm0i02WS_mean vs run
χ² / ndf 60.49 / 80
p0 2.31e+04 ± 273.3
pull
Entries 81
Mean −930.4
Std Dev 961.6

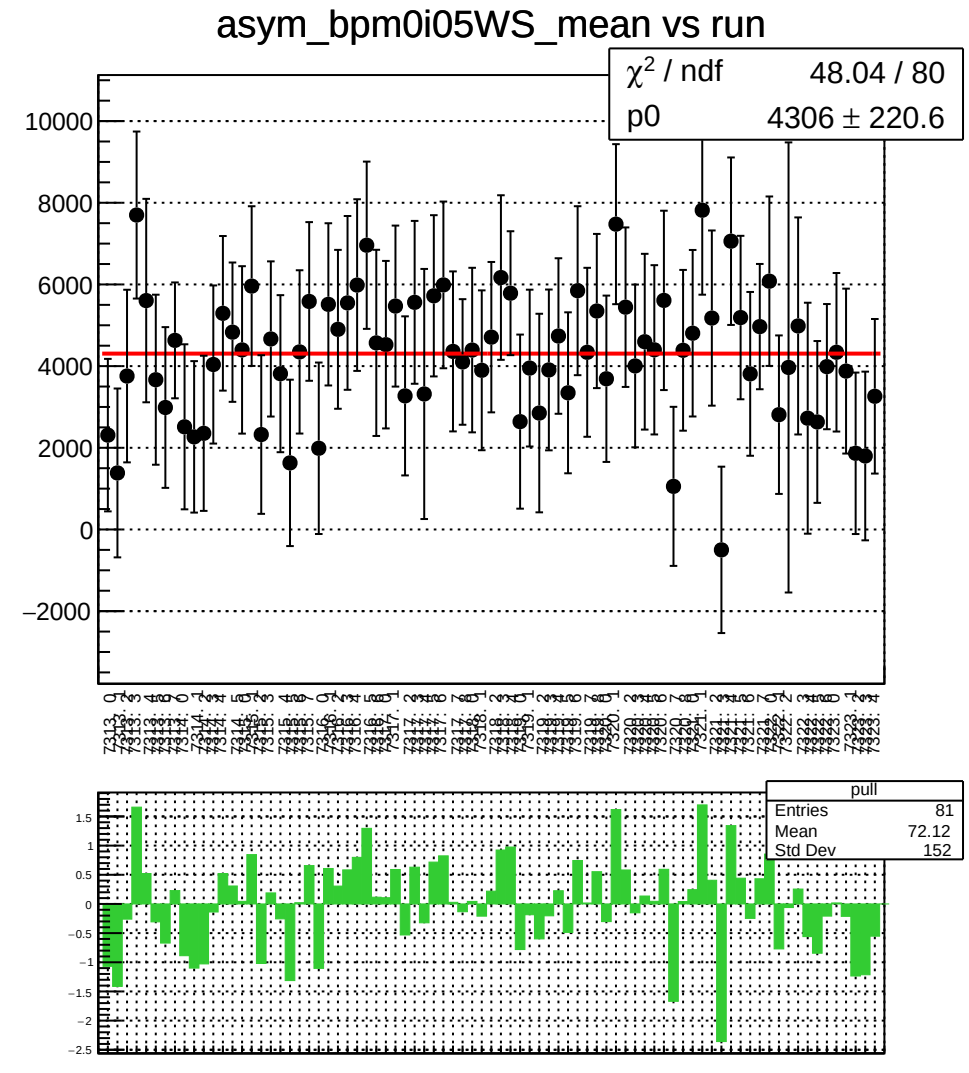

pull1D
Entries 81
Mean −0.007933
Std Dev 0.8641

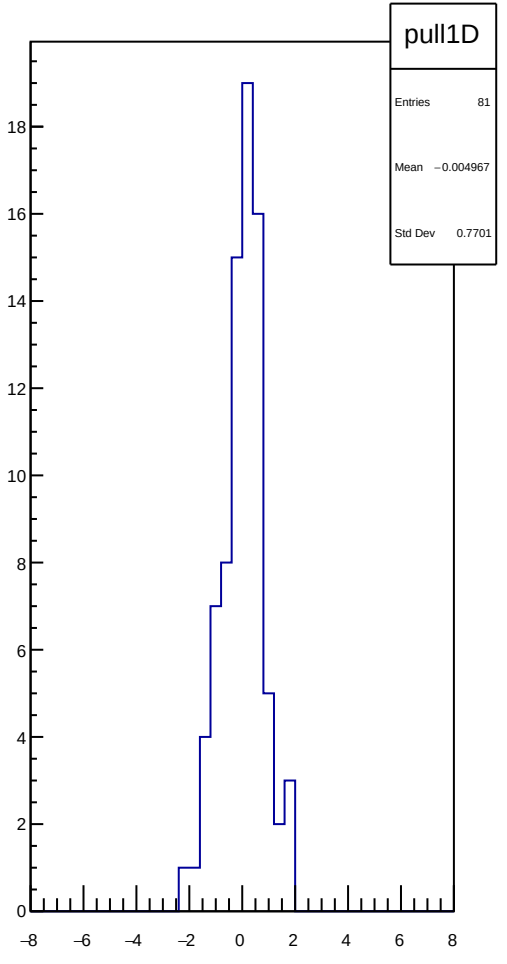

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.369e+04 / 80
p0 239.6 ± 0.1933
600
550
500
450
400
350
300
250
200

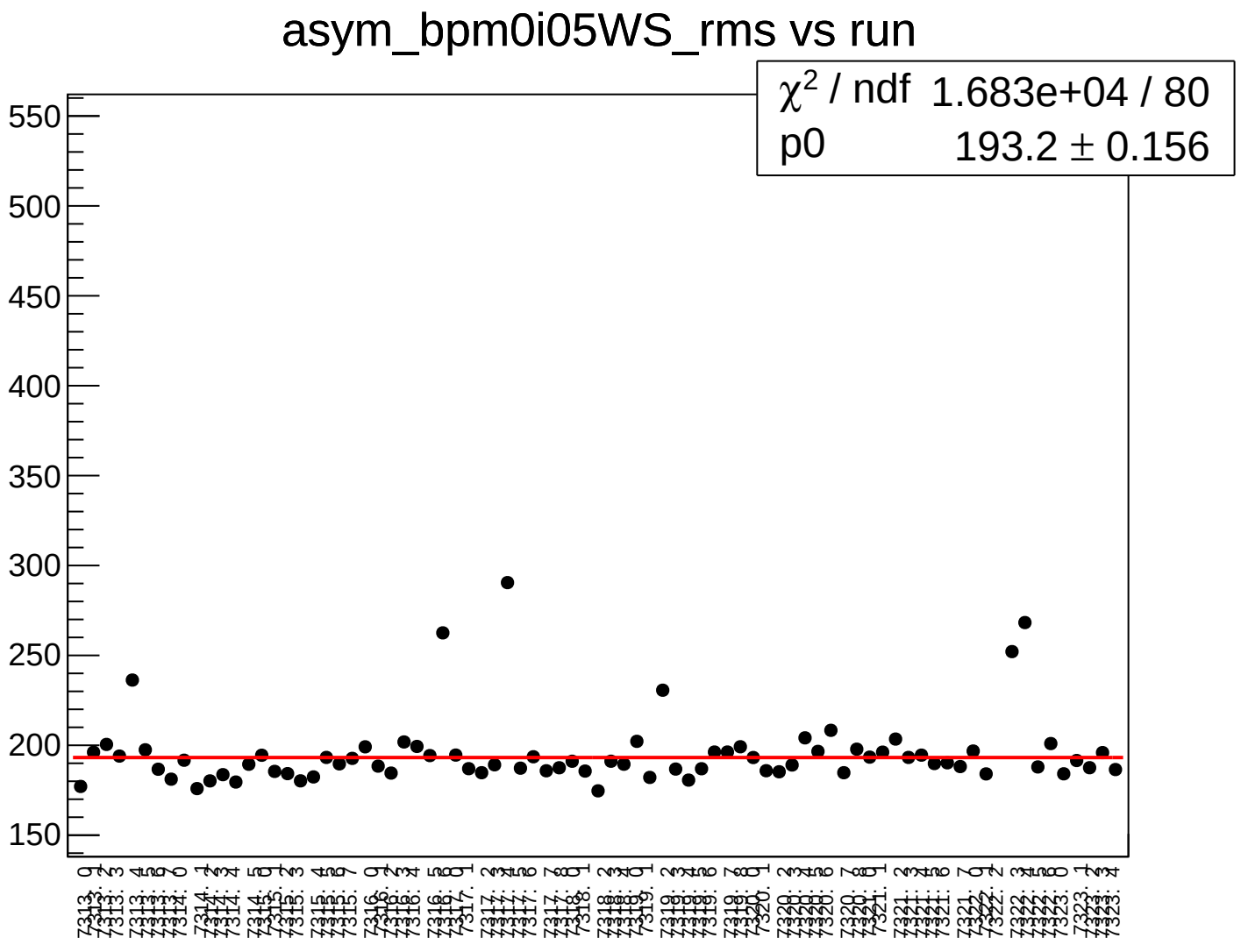

asym_bpm0i02aWS_mean vs run
χ² / ndf 55.65 / 80
p0 1.031e+04 ± 220.9
pull
Entries 81
Mean −536.3
Std Dev 564.9

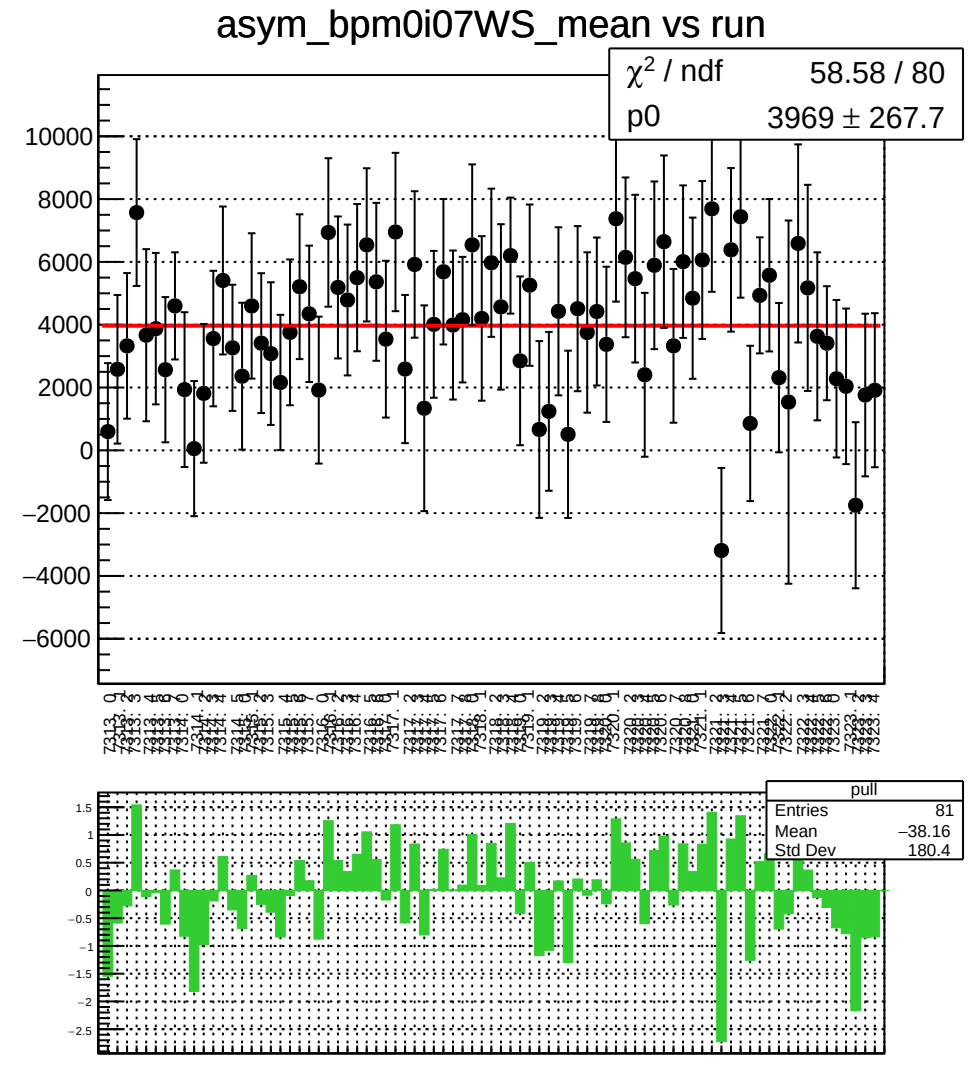

pull1D
Entries 81
Mean −0.01037
Std Dev 0.8288

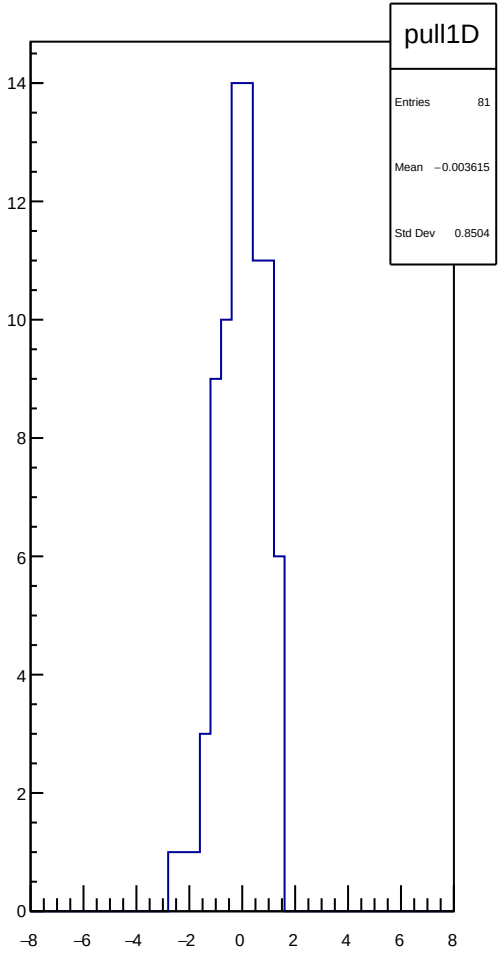

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.8e+04 / 80
p0 193.4 ± 0.1562
550
500
450
400
350
300
250
200
150

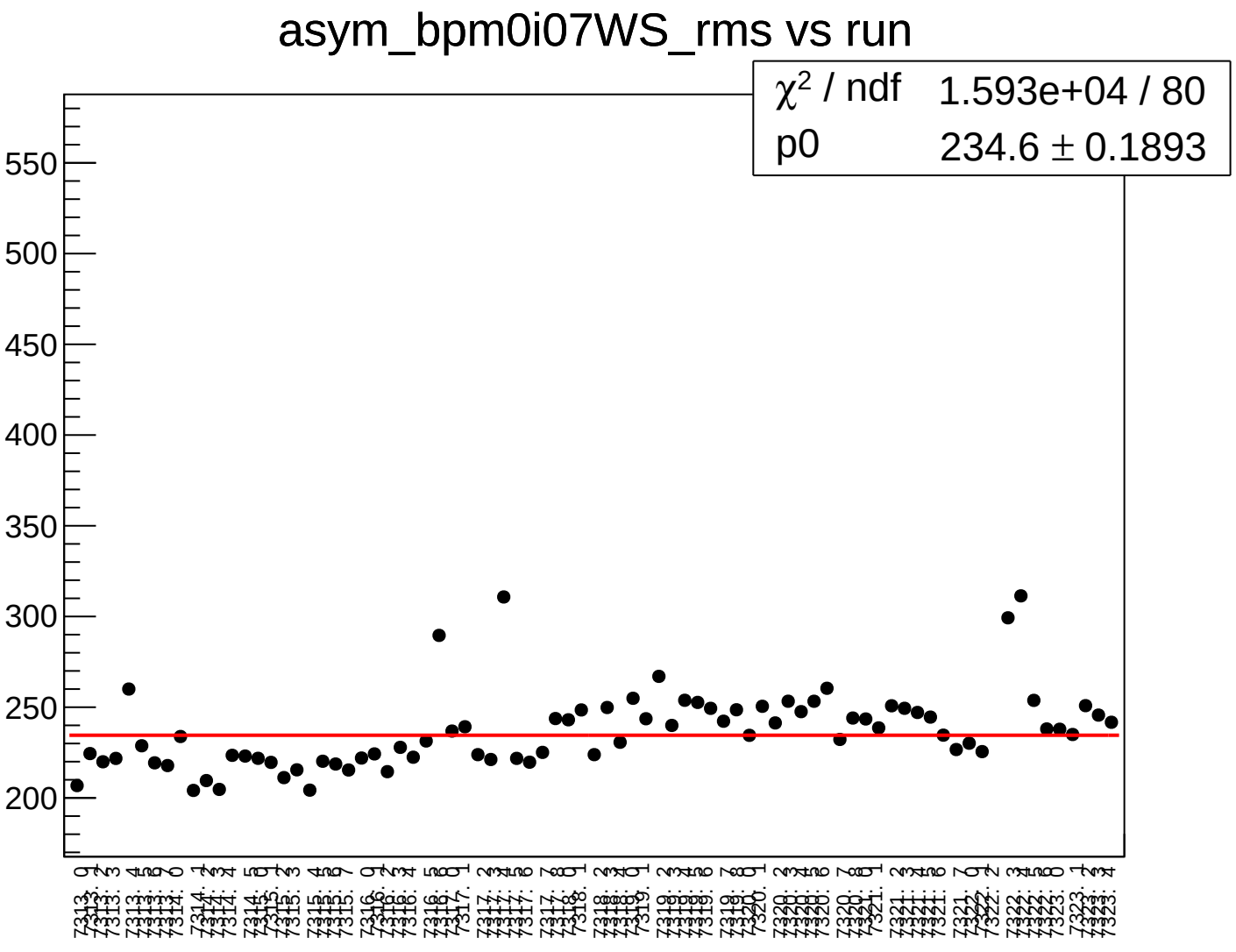

asym_bpm0i05WS_mean vs run
χ² / ndf 48.04 / 80
p0 4306 ± 220.6
pull
Entries 81
Mean 72.12
Std Dev 152

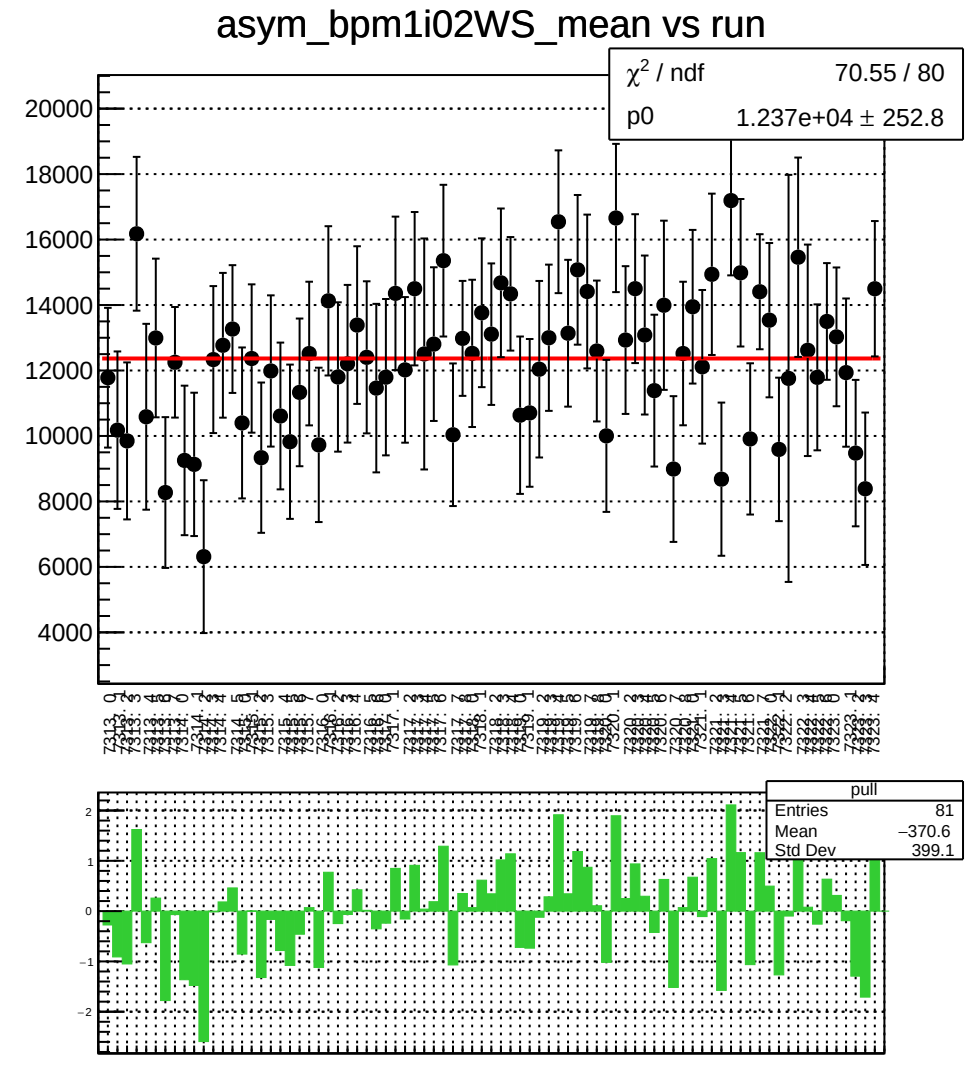

pull1D
Entries 81
Mean −0.004967
Std Dev 0.7701

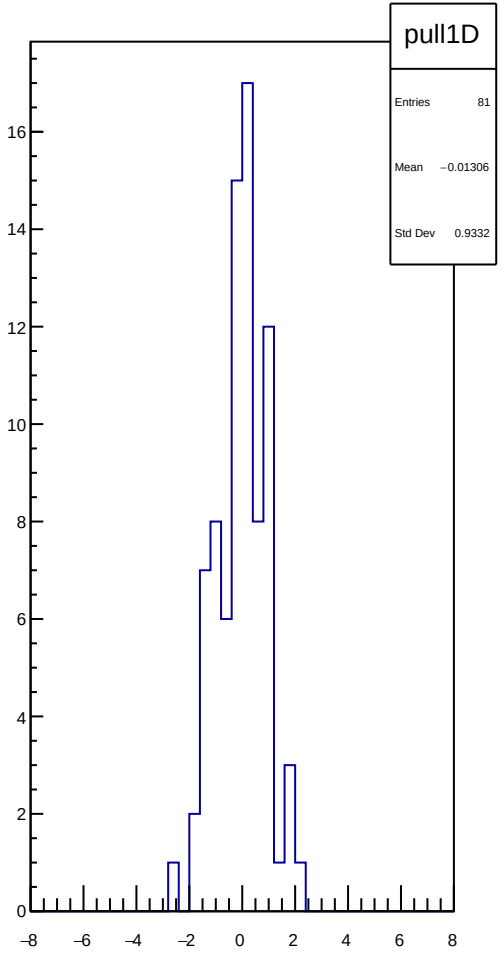

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.683e+04 / 80
p0 193.2 ± 0.156
550
500
450
400
350
300
250
200
150

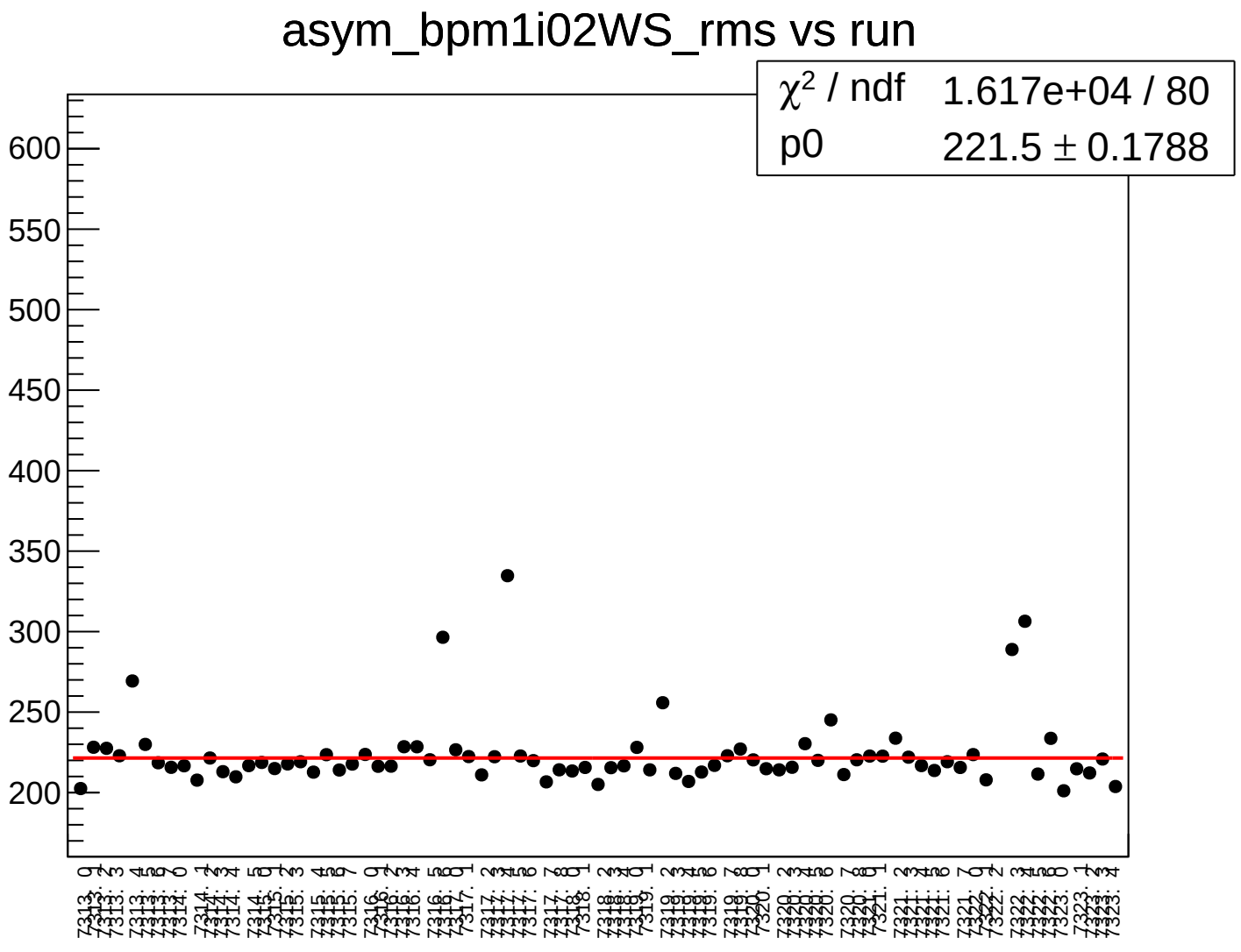

asym_bpm0i07WS_mean vs run
χ² / ndf 58.58 / 80
p0 3969 ± 267.7
pull
Entries 81
Mean −38.16
Std Dev 180.4

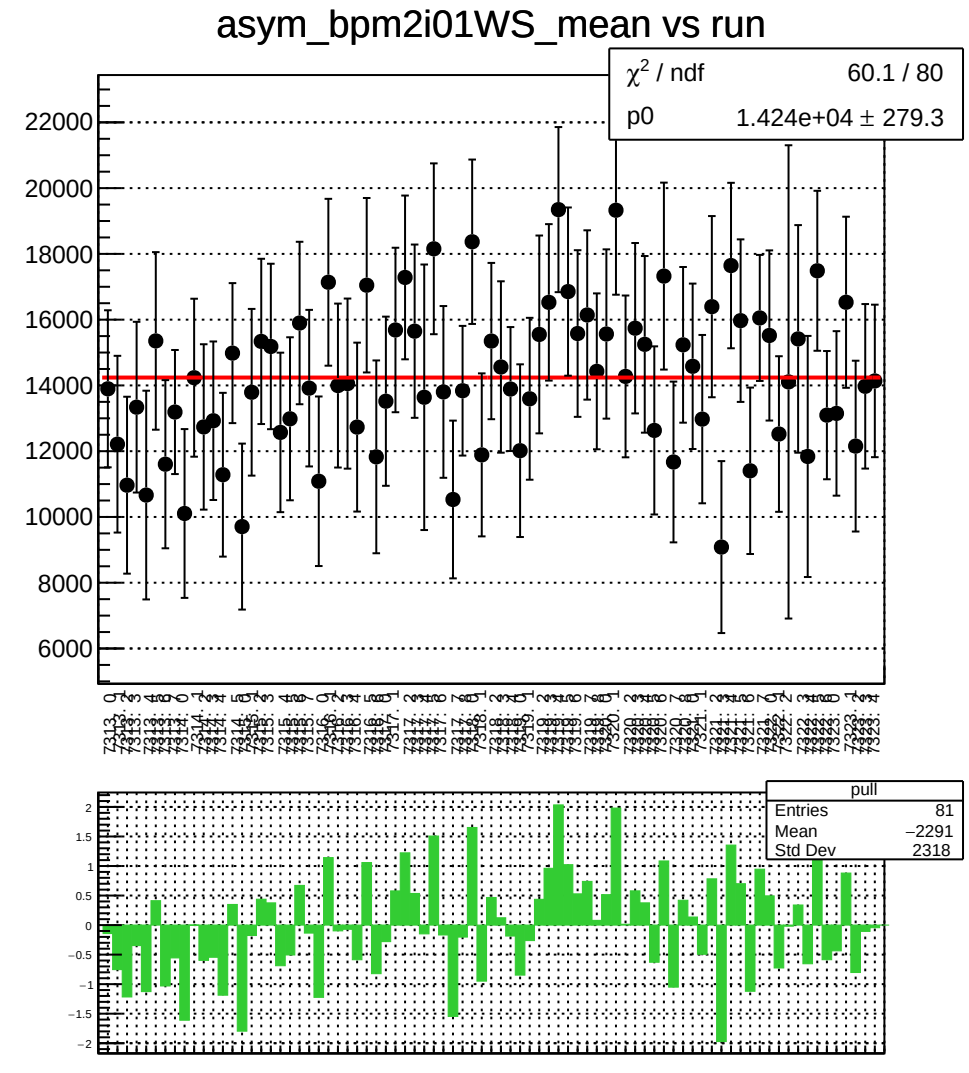

pull1D
Entries 81
Mean −0.003615
Std Dev 0.8504

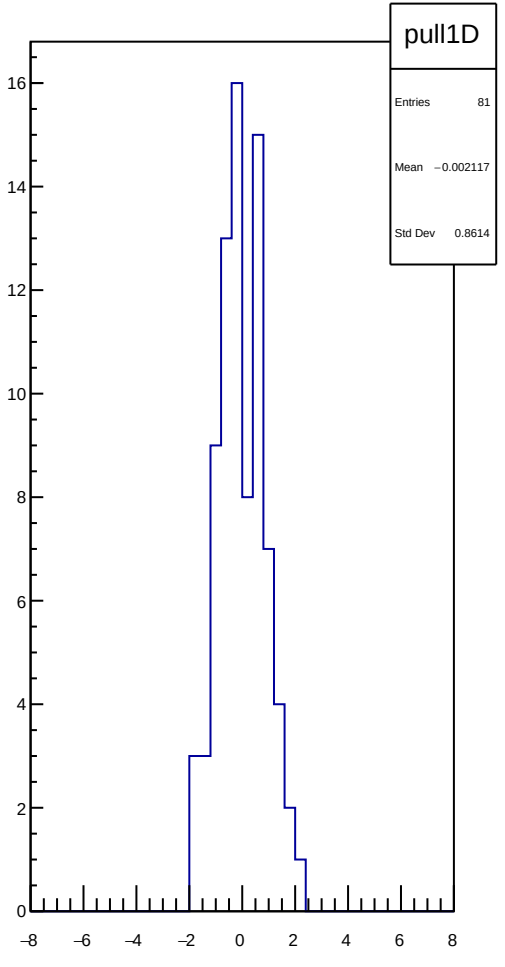

asym_bpm0i07WS_rms vs run
χ² / ndf 1.593e+04 / 80
p0 234.6 ± 0.1893
550
500
450
400
350
300
250
200

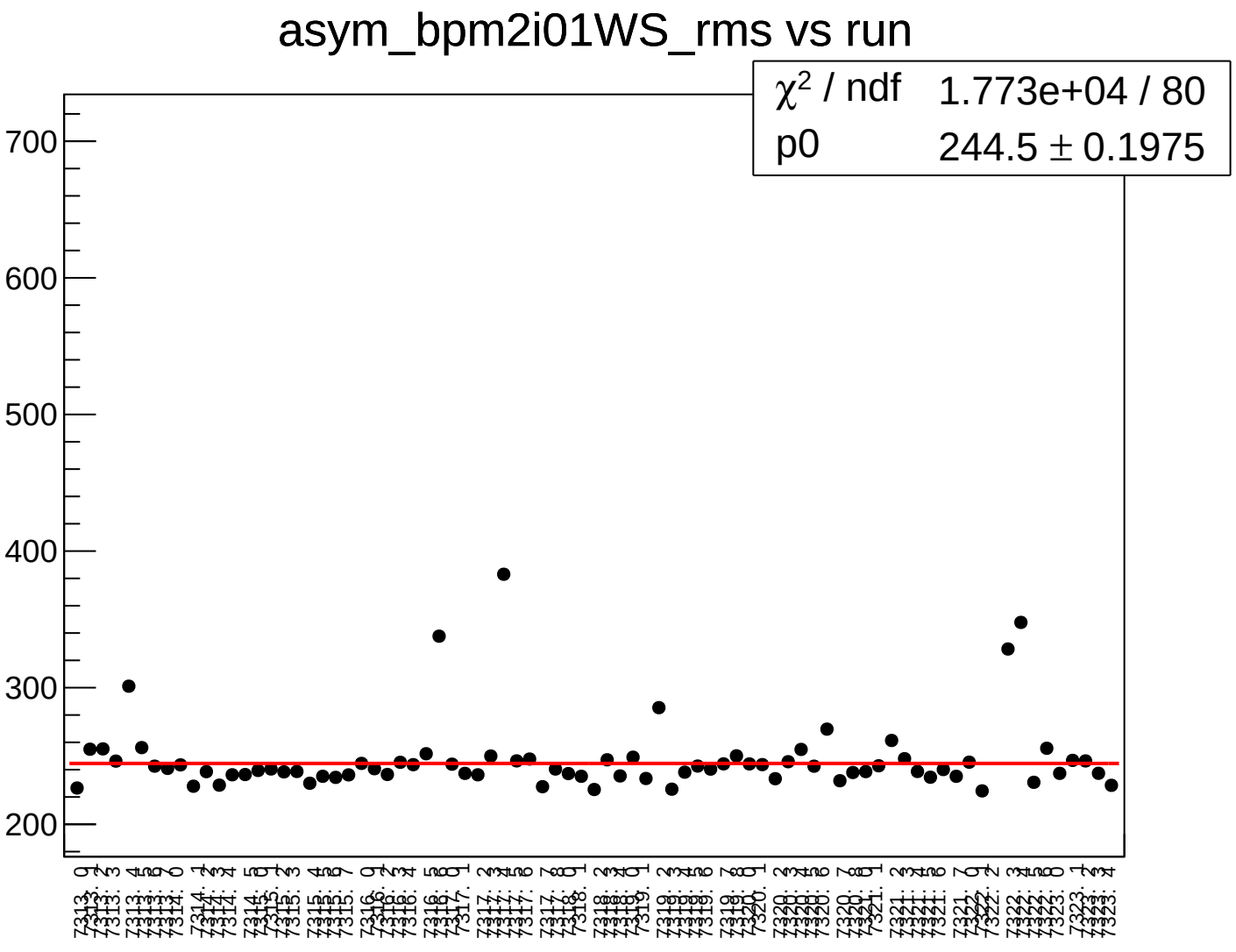

asym_bpm1i02WS_mean vs run
χ² / ndf 70.55 / 80
p0 1.237e+04 ± 252.8
pull
Entries 81
Mean −370.6
Std Dev 399.1

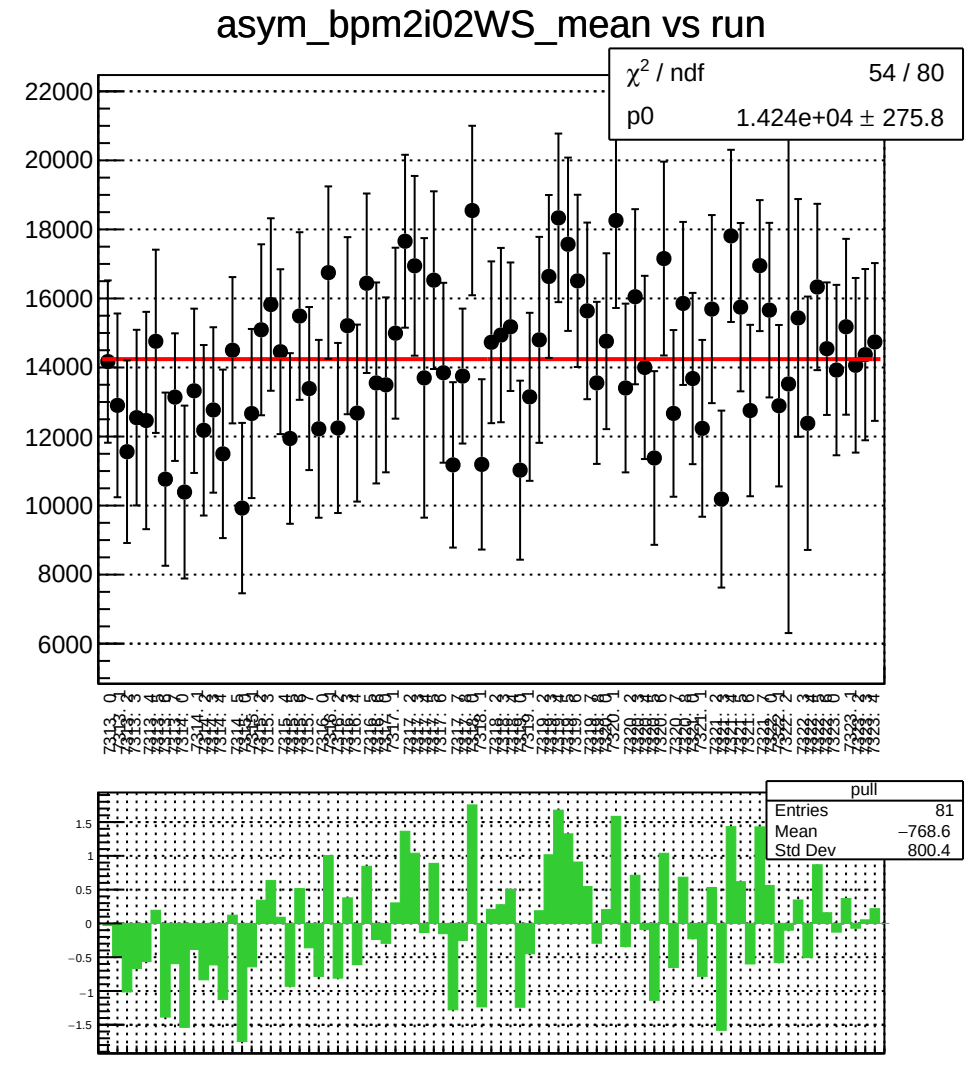

pull1D
Entries 81
Mean −0.01306
Std Dev 0.9332

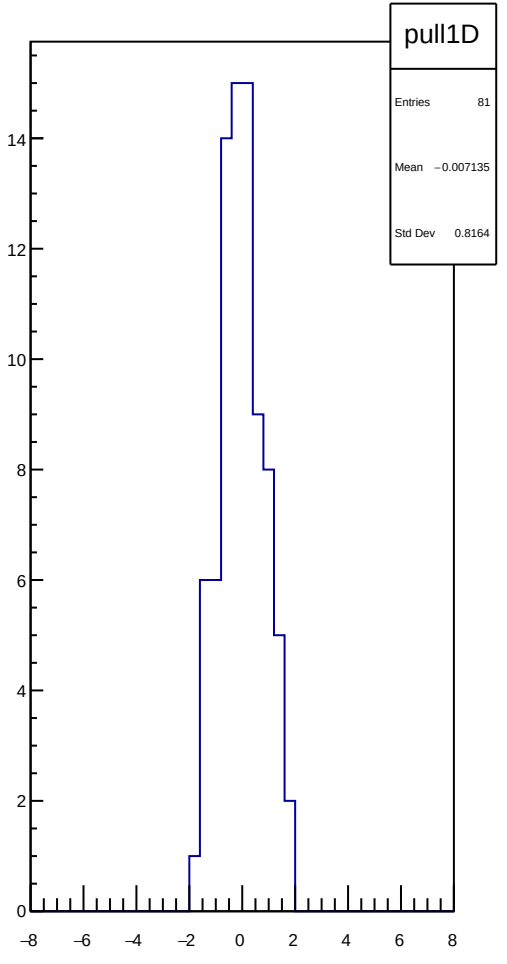

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.617e+04 / 80
p0 221.5 ± 0.1788
600
550
500
450
400
350
300
250
200

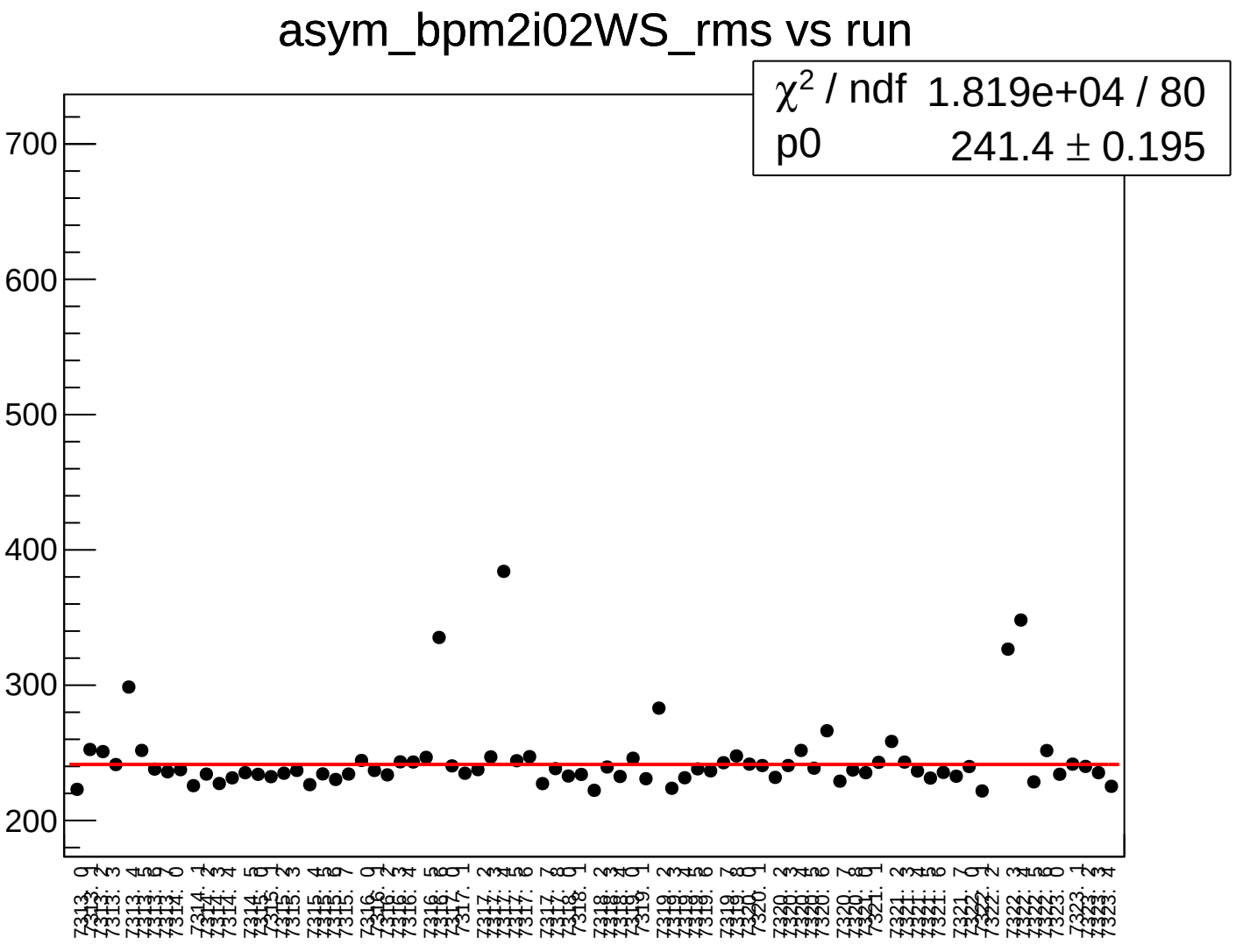

asym_bpm2i01WS_mean vs run
χ² / ndf 60.1 / 80
p0 1.424e+04 ± 279.3
pull
Entries 81
Mean −2291
Std Dev 2318

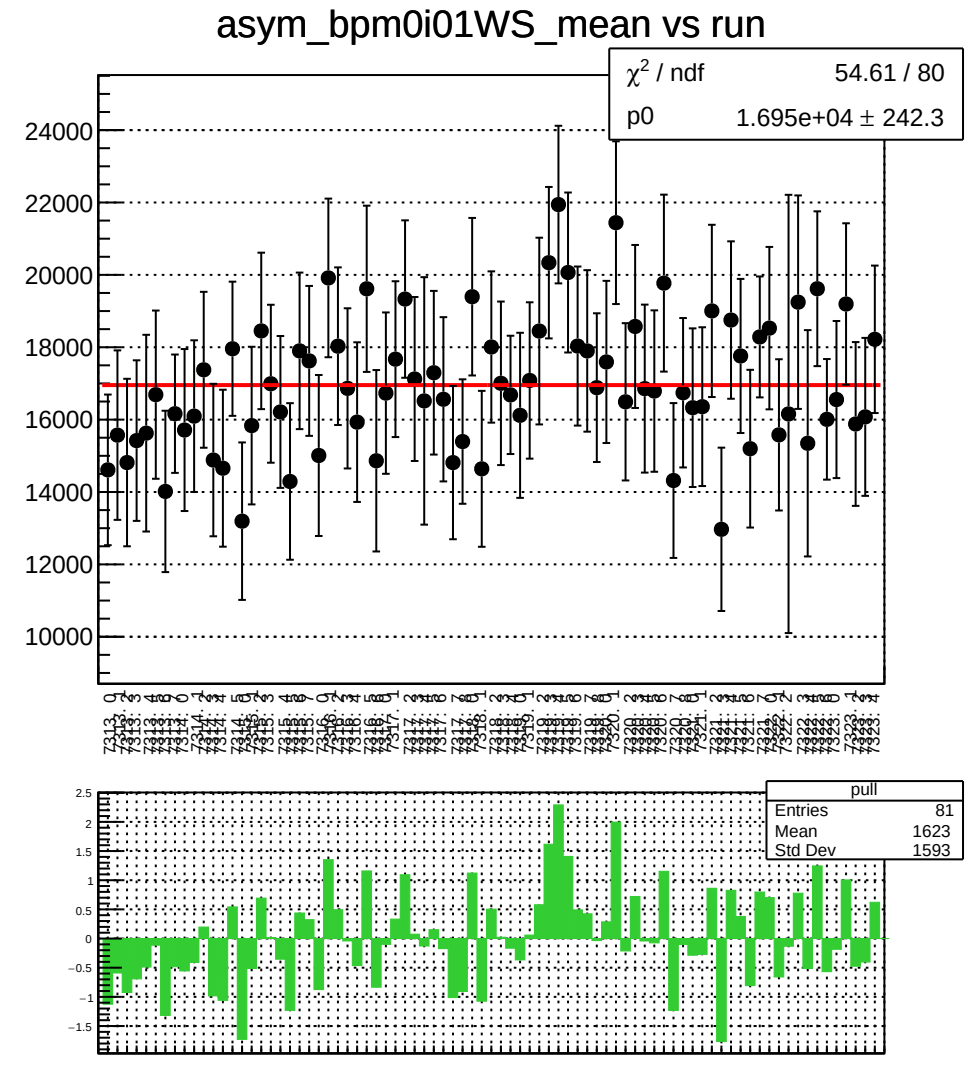

pull1D
Entries 81
Mean −0.002117
Std Dev 0.8614

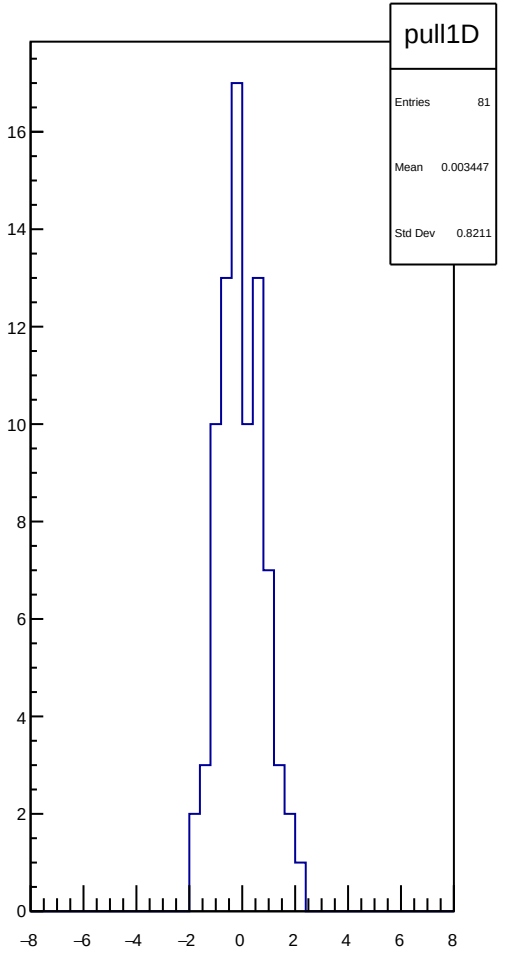

asym_bpm2i01WS_rms vs run
χ² / ndf 1.773e+04 / 80
p0 244.5 ± 0.1975
700
600
500
400
300
200

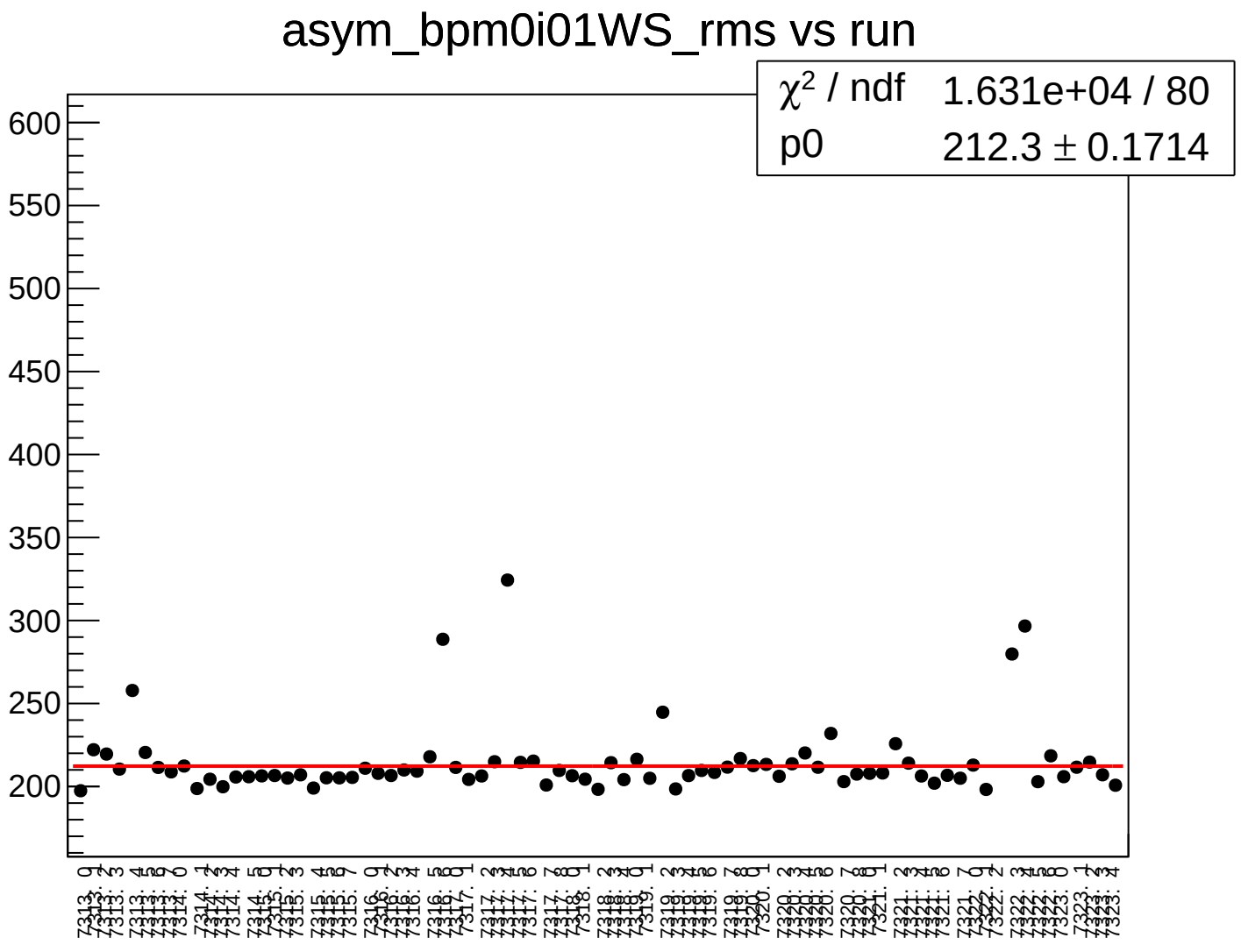

asym_bpm2i02WS_mean vs run
χ² / ndf 54 / 80
p0 1.424e+04 ± 275.8
pull
Entries 81
Mean −768.6
Std Dev 800.4

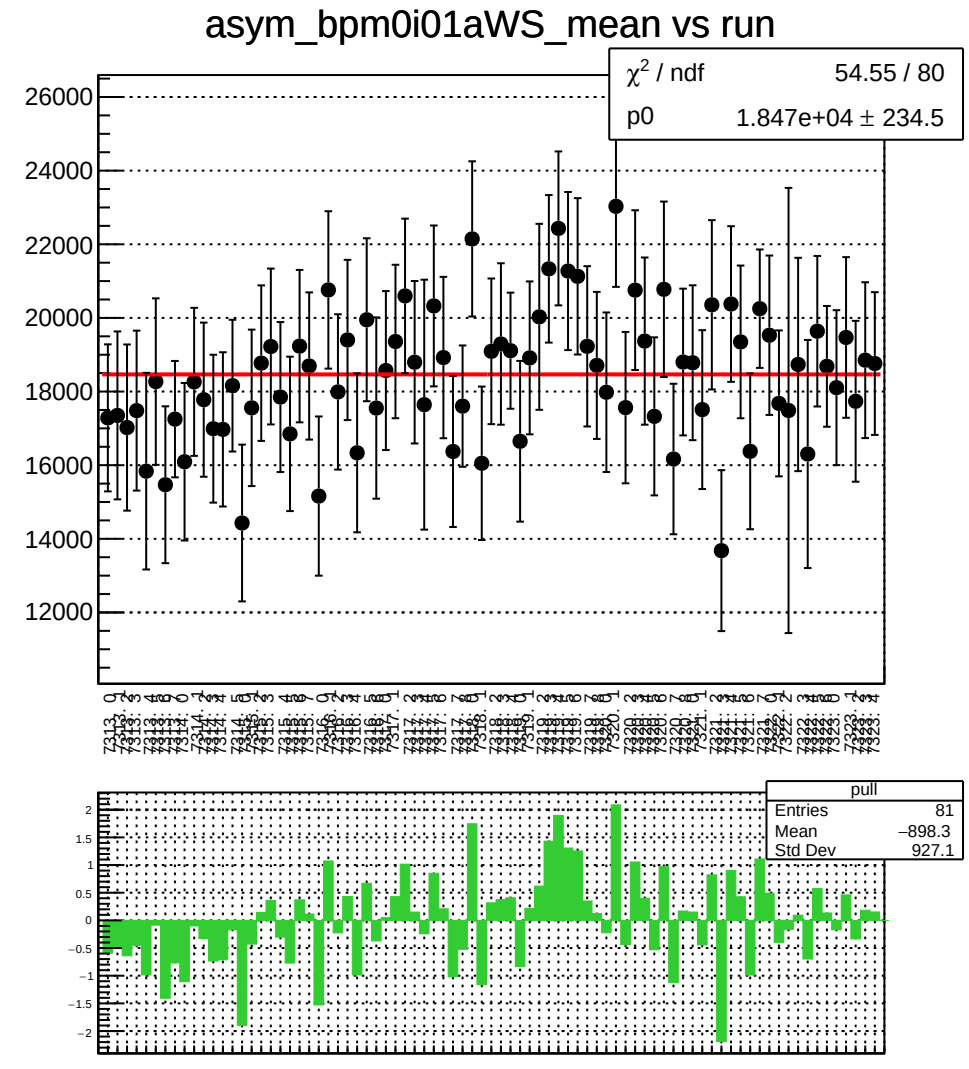

pull1D
Entries 81
Mean −0.007135
Std Dev 0.8164

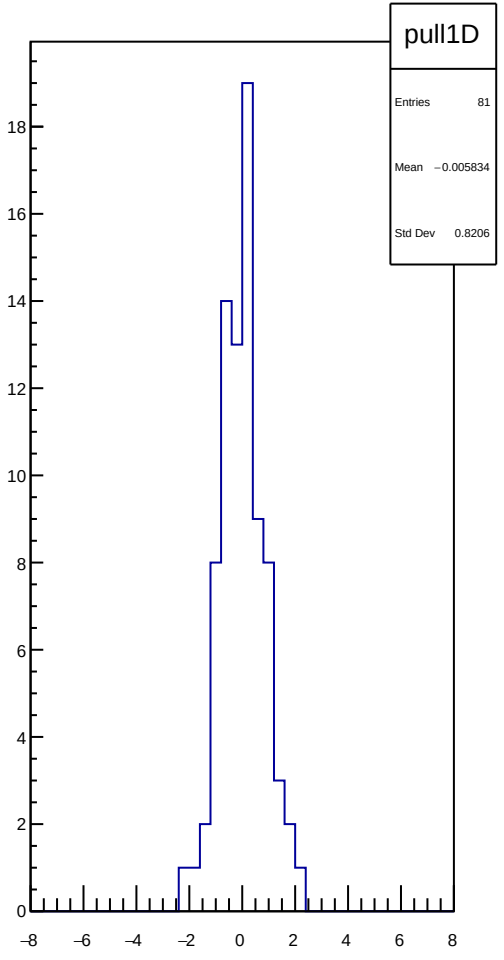

asym_bpm2i02WS_rms vs run
χ^2 / ndf 1.819e+04 / 80
p0 241.4 ± 0.195
700
600
500
400
300
200

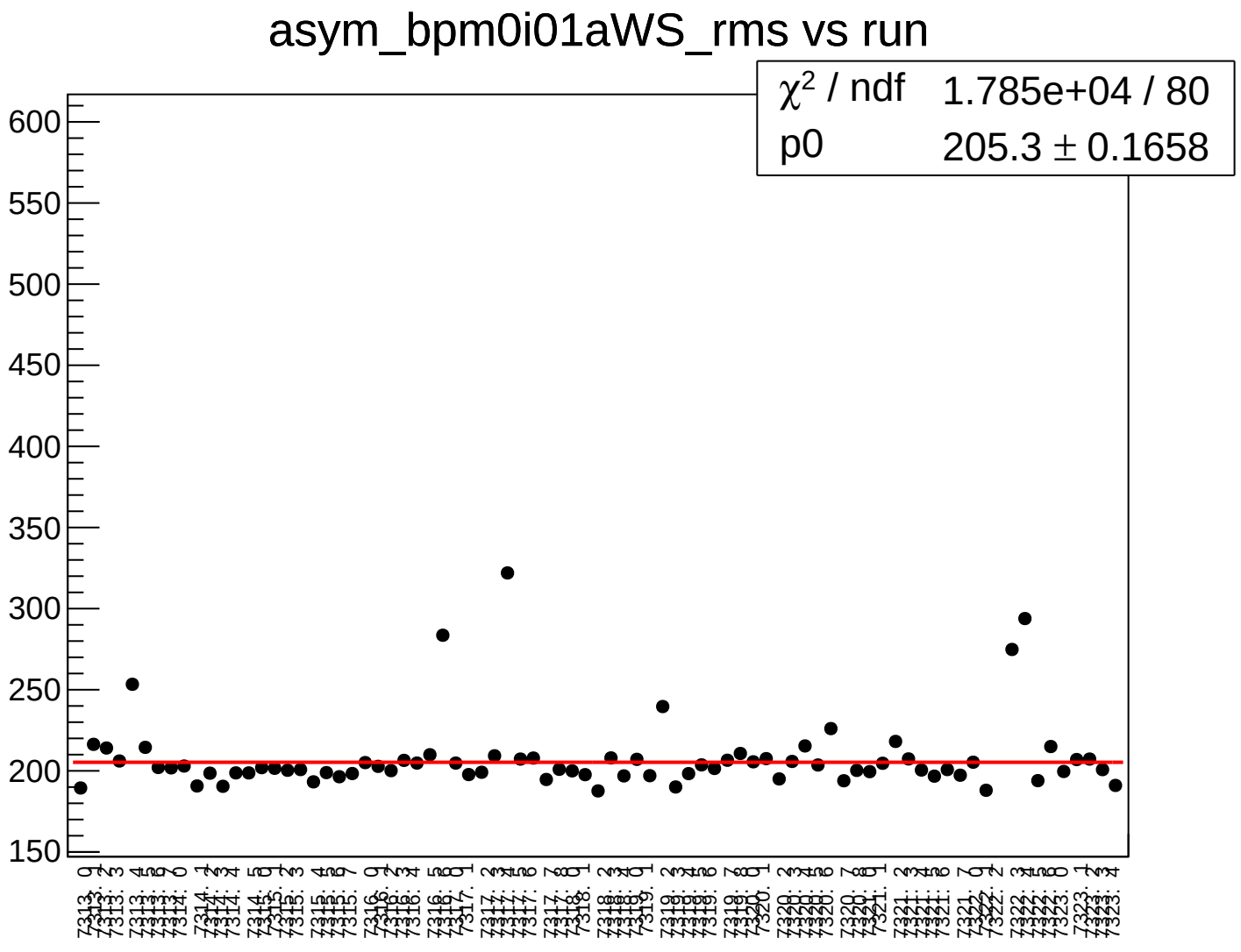

asym_bpm0i01WS_mean vs run
χ² / ndf 54.61 / 80
p0 1.695e+04 ± 242.3
pull
Entries 81
Mean 1623
Std Dev 1593

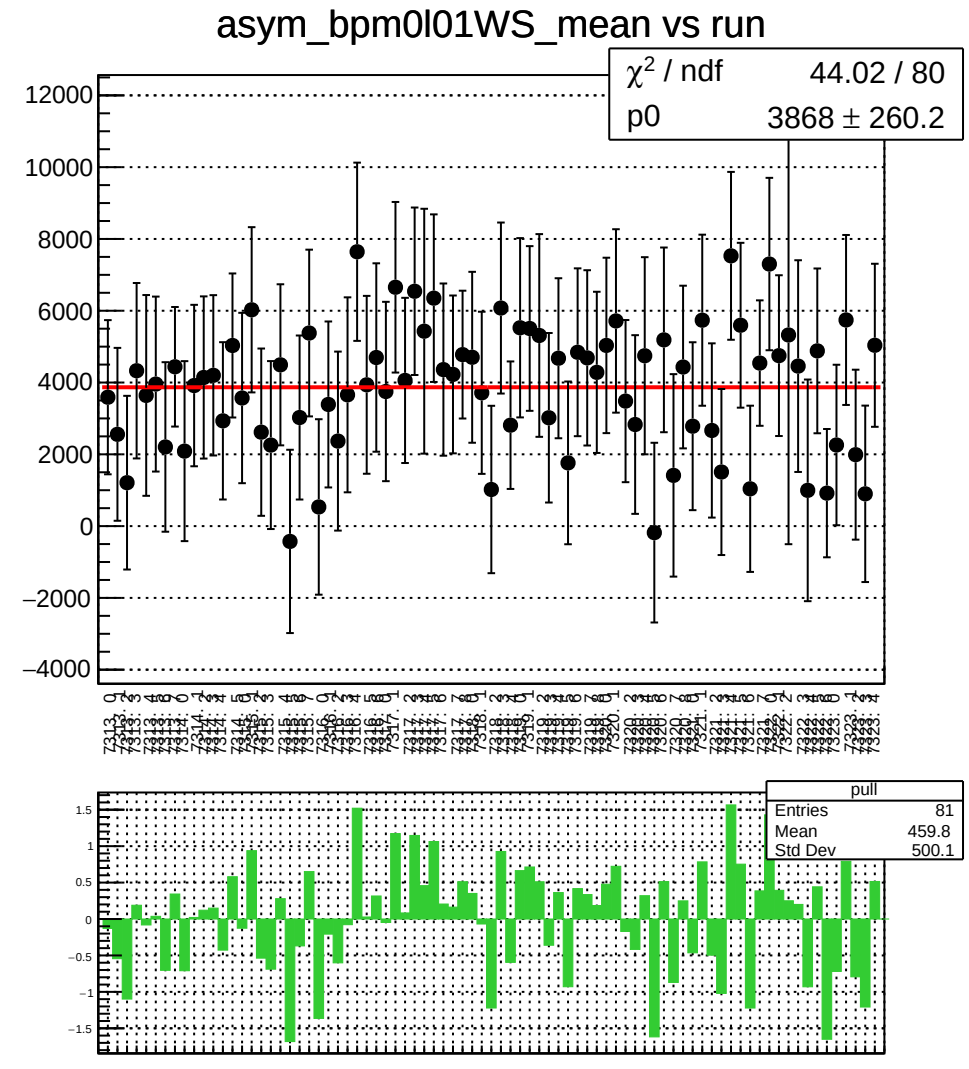

pull1D
Entries 81
Mean 0.003447
Std Dev 0.8211

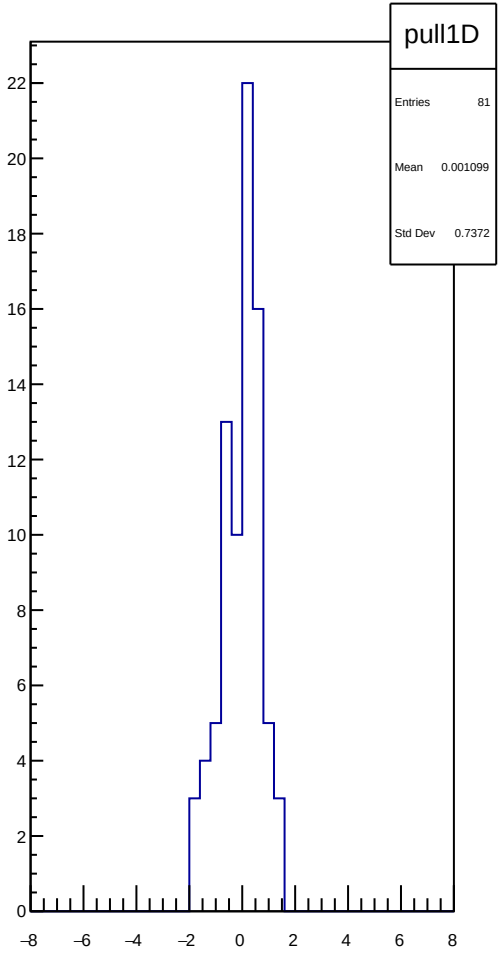

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.631e+04 / 80
p0 212.3 ± 0.1714
600
550
500
450
400
350
300
250
200

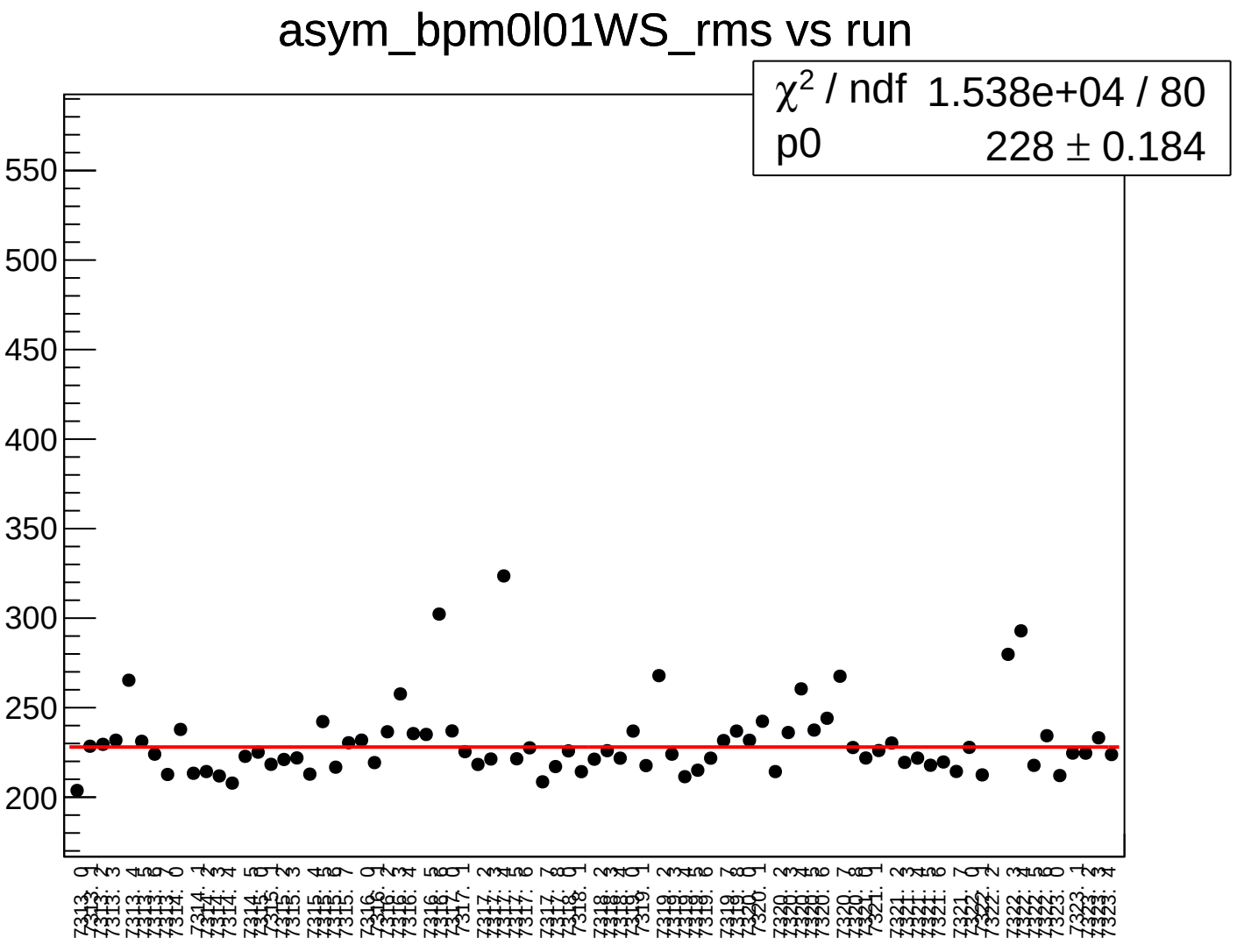

asym_bpm0i01aWS_mean vs run
χ² / ndf 54.55 / 80
p0 1.847e+04 ± 234.5
pull
Entries 81
Mean −898.3
Std Dev 927.1

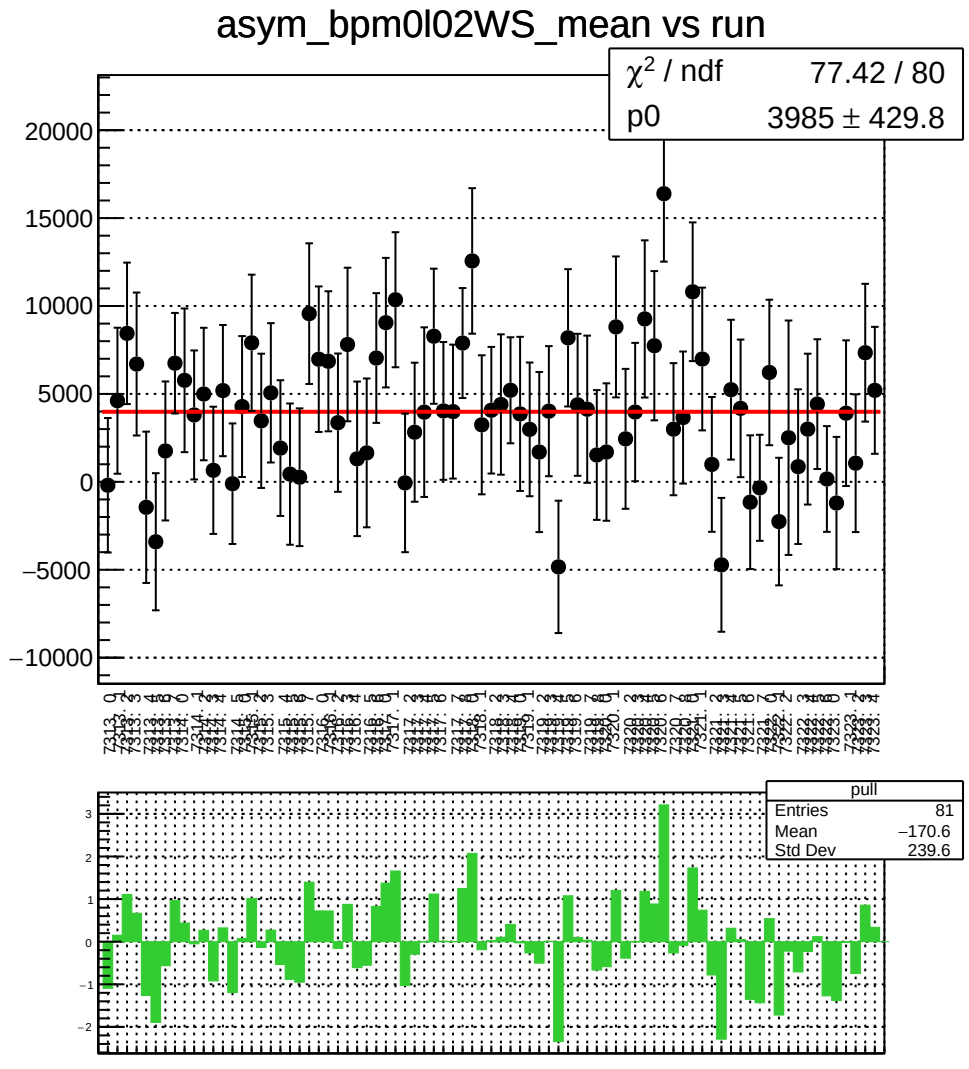

pull1D
Entries 81
Mean −0.005834
Std Dev 0.8206

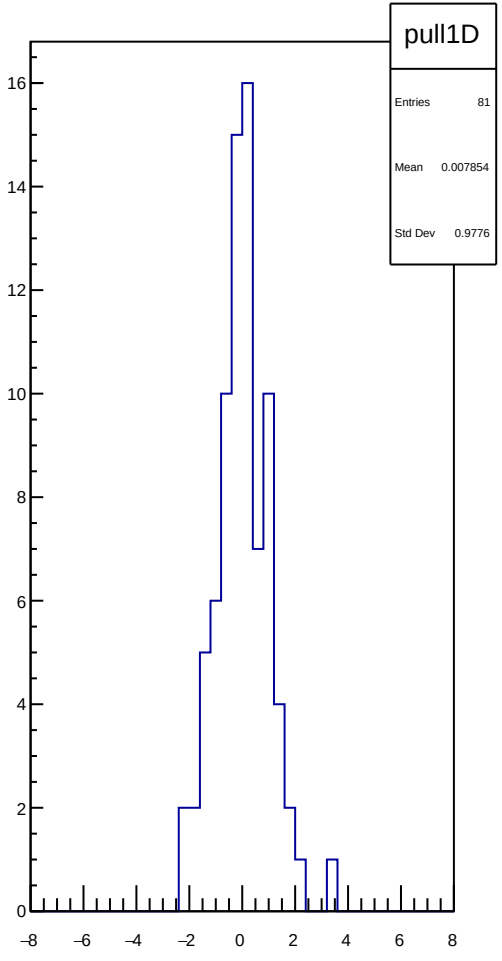

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 1.785e+04 / 80
p0 205.3 ± 0.1658
600
550
500
450
400
350
300
250
200
150

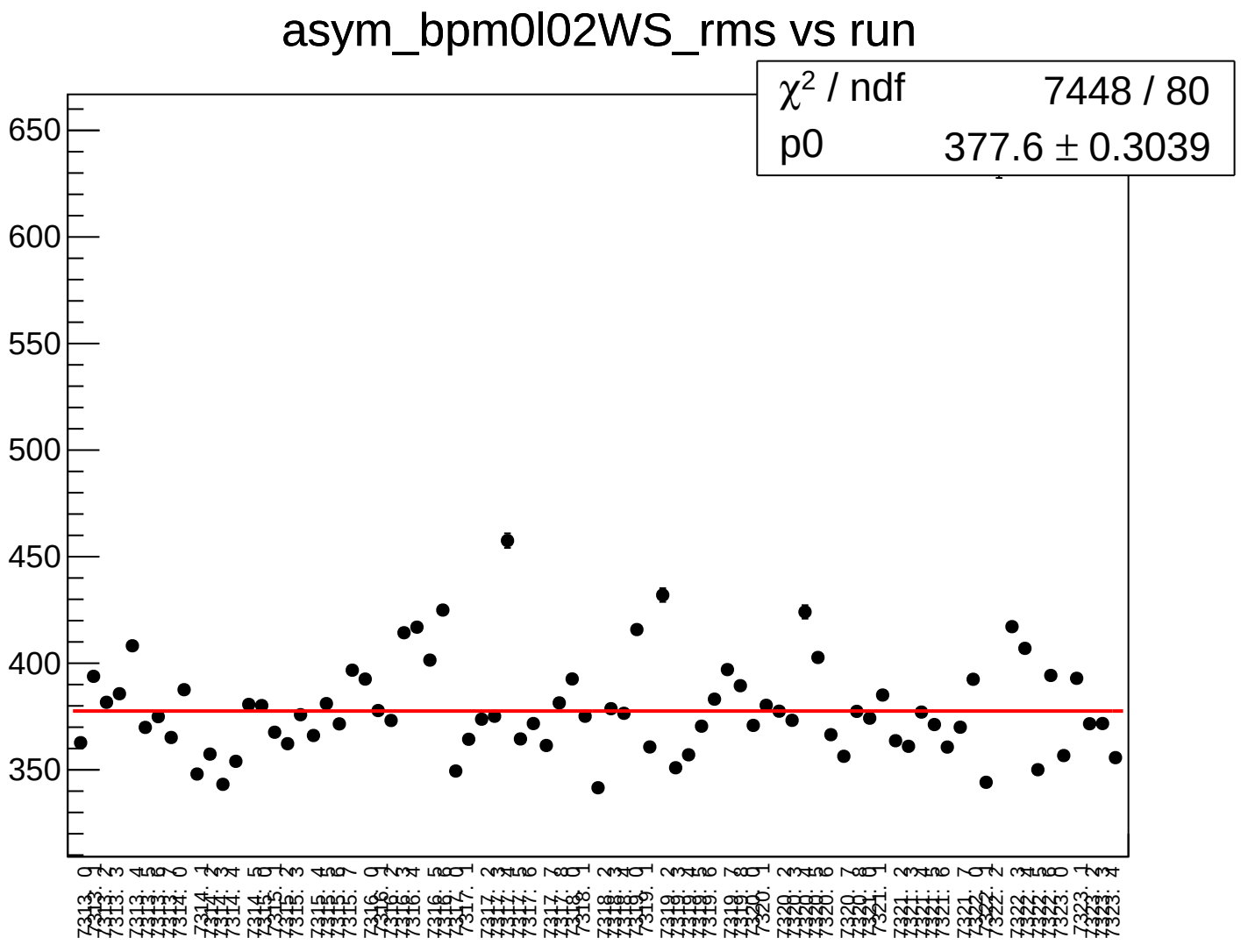

asym_bpm0l01WS_mean vs run
χ² / ndf 44.02 / 80
p0 3868 ± 260.2
pull
Entries 81
Mean 459.8
Std Dev 500.1

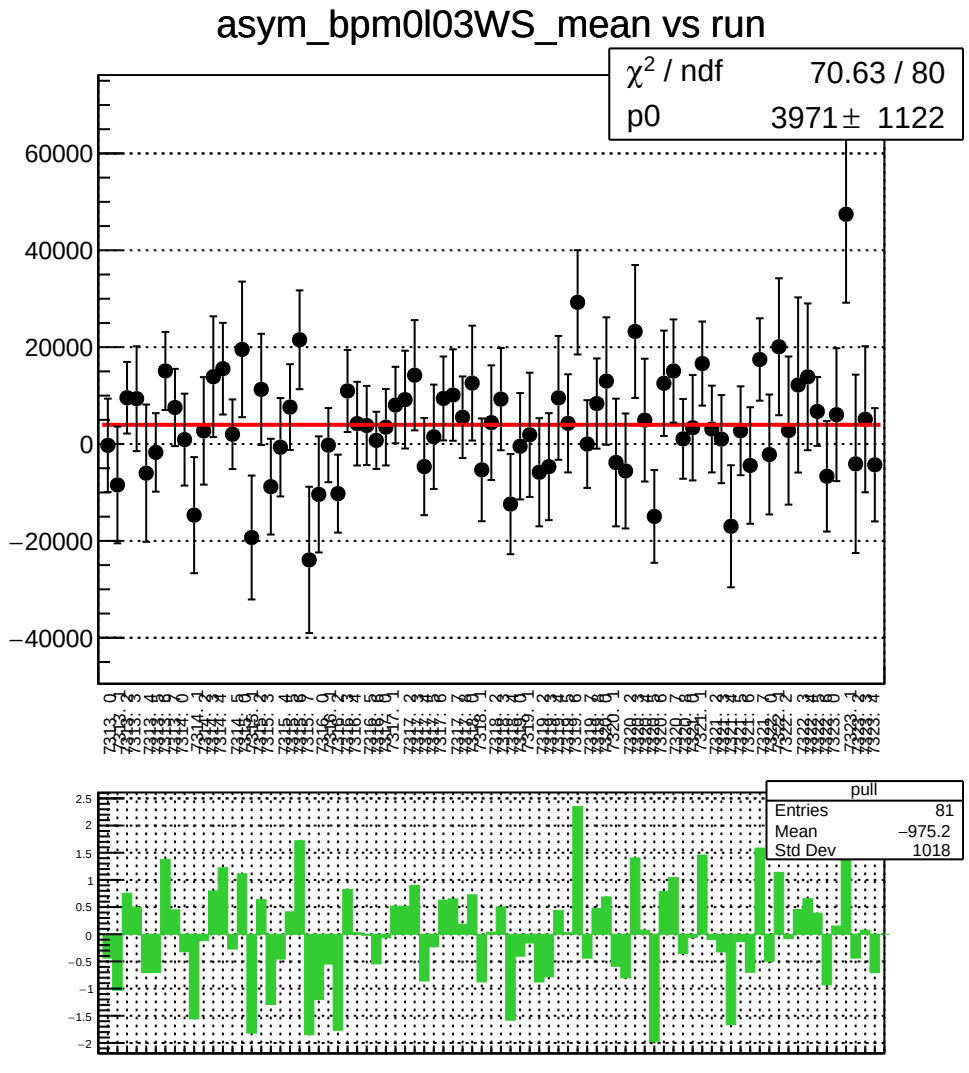

pull1D
Entries 81
Mean 0.001099
Std Dev 0.7372

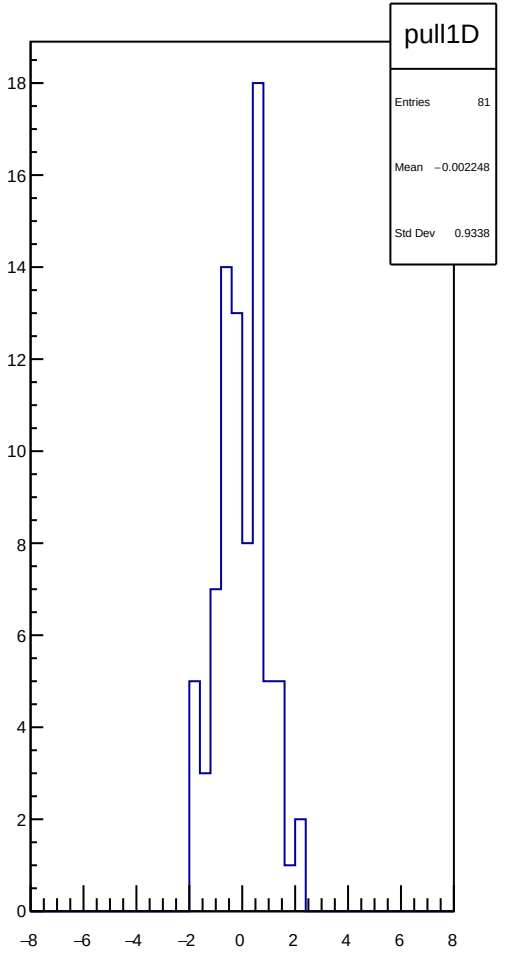

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.538e+04 / 80
p0 228 ± 0.184
550
500
450
400
350
300
250
200

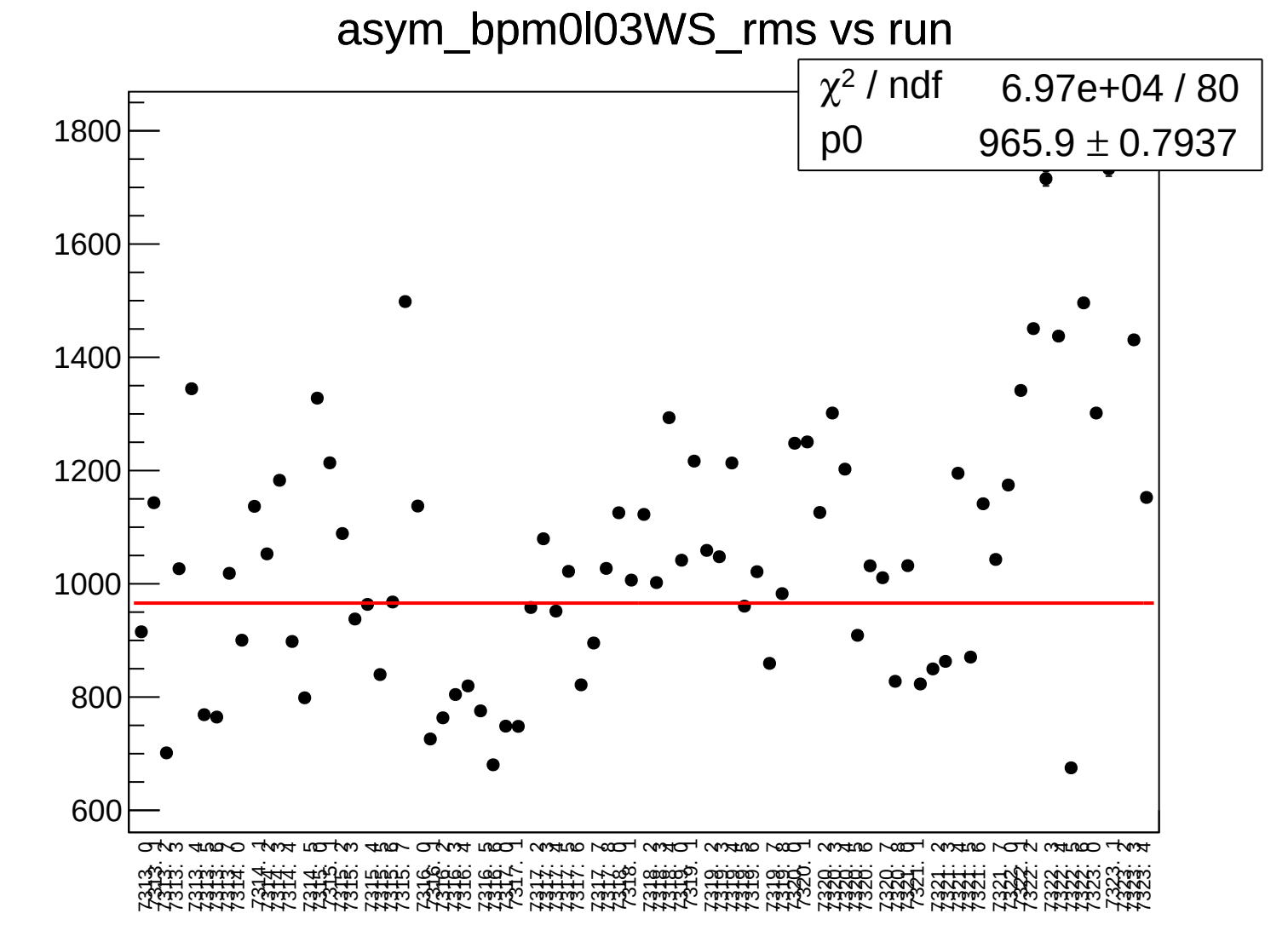

asym_bpm0l02WS_mean vs run
χ² / ndf 77.42 / 80
p0 3985 ± 429.8
pull
Entries 81
Mean −170.6
Std Dev 239.6

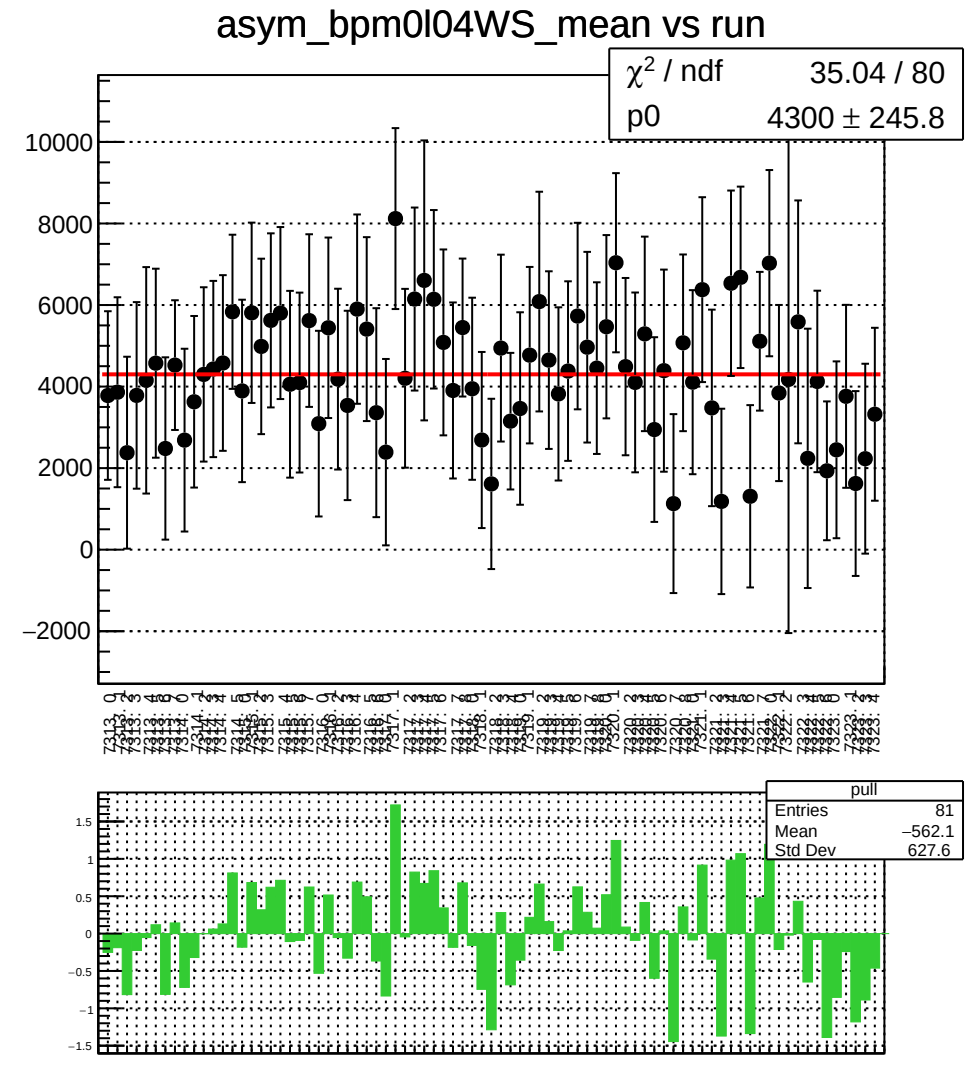

pull1D
Entries 81
Mean 0.007854
Std Dev 0.9776

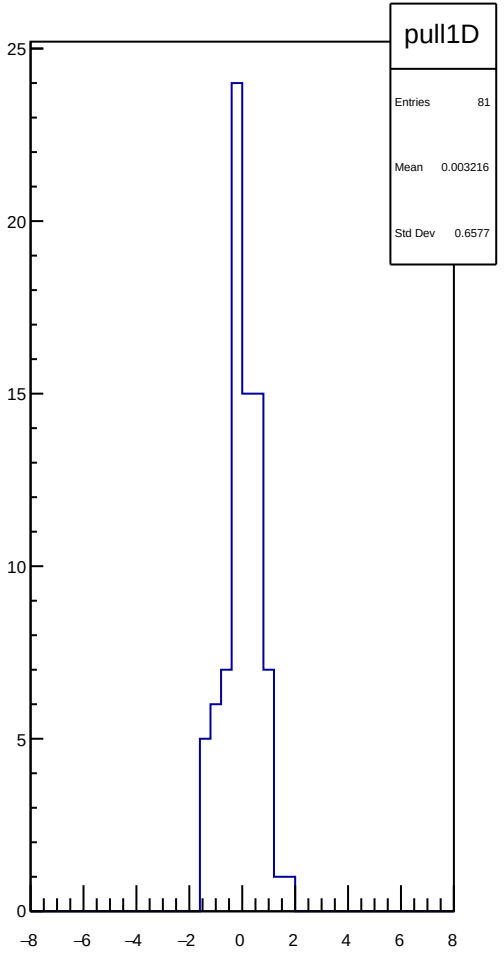

asym_bpm0l02WS_rms vs run
χ² / ndf 7448 / 80
p0 377.6 ± 0.3039
650
600
550
500
450
400
350

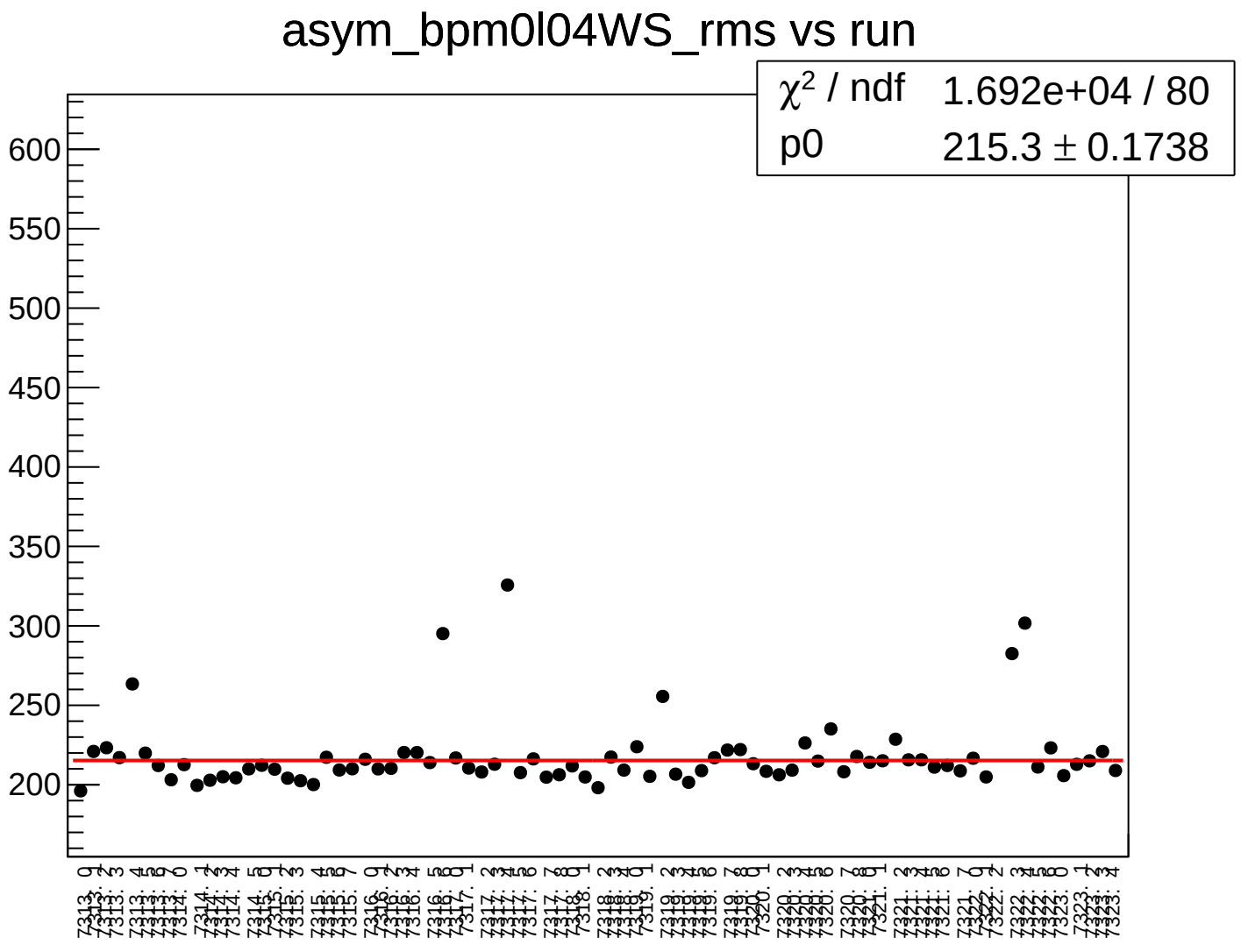

asym_bpm0l03WS_mean vs run
χ² / ndf 70.63 / 80
p0 3971 ± 1122
pull
Entries 81
Mean −975.2
Std Dev 1018

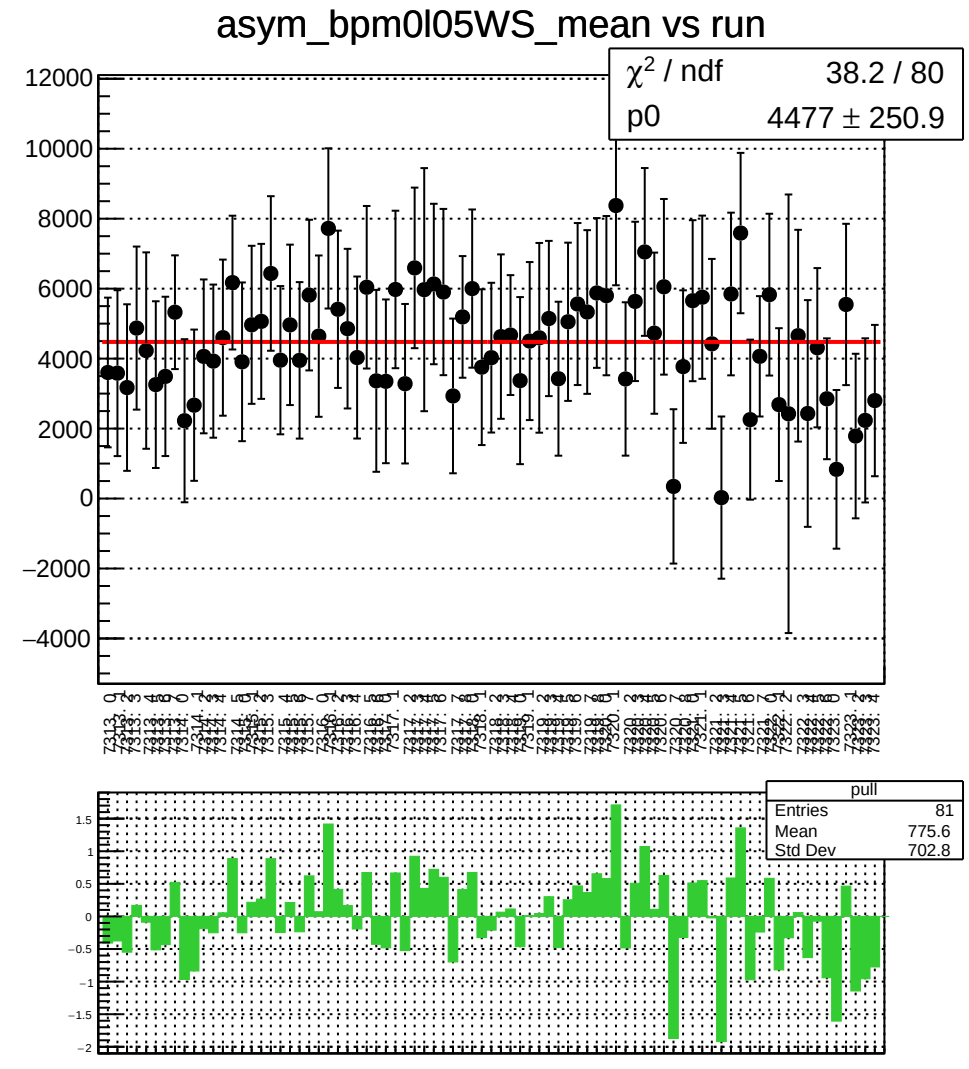

pull1D
Entries 81
Mean −0.002248
Std Dev 0.9338

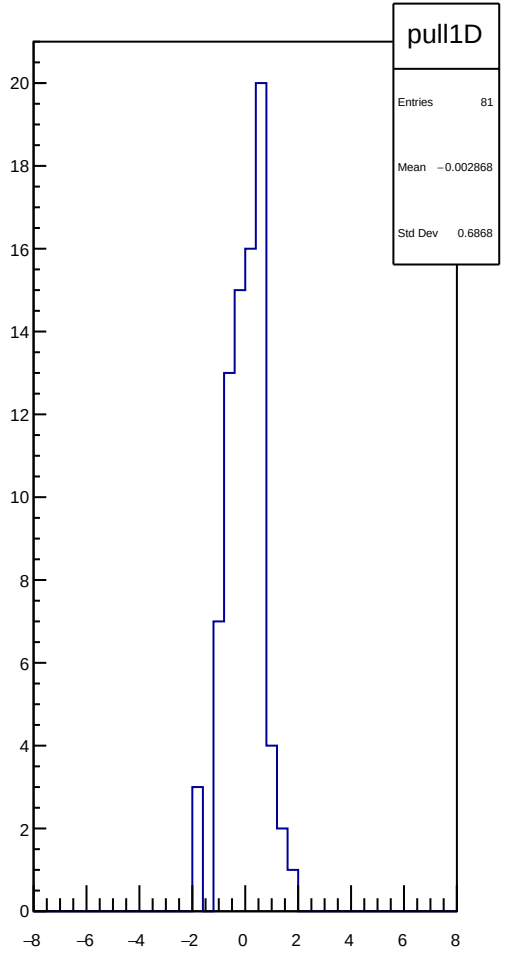

asym_bpm0l03WS_rms vs run
χ² / ndf 6.97e+04 / 80
p0 965.9 ± 0.7937
1800
1600
1400
1200
1000
800
600

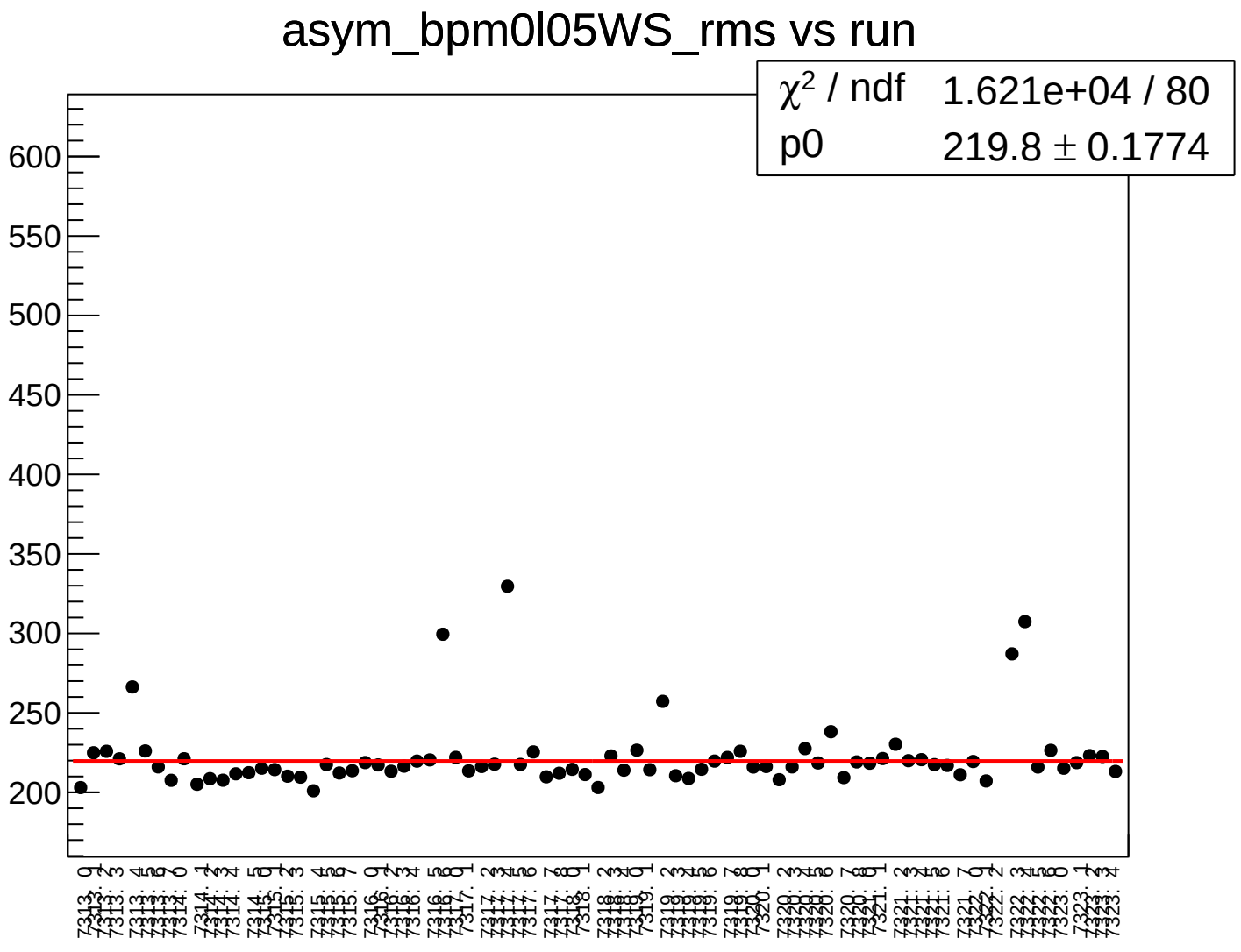

asym_bpm0l04WS_mean vs run
χ^2 / ndf 35.04 / 80
p0 4300 ± 245.8
pull
Entries 81
Mean −562.1
Std Dev 627.6

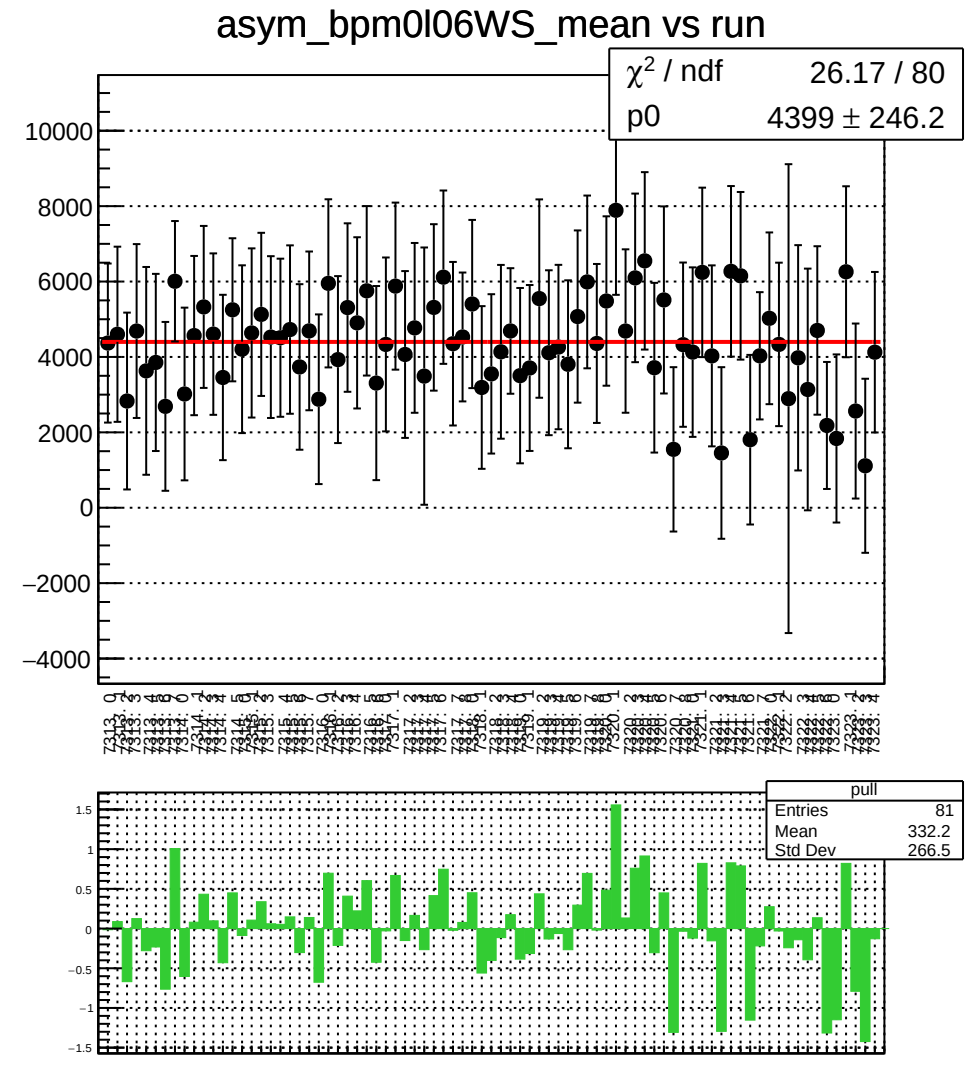

pull1D
Entries 81
Mean 0.003216
Std Dev 0.6577

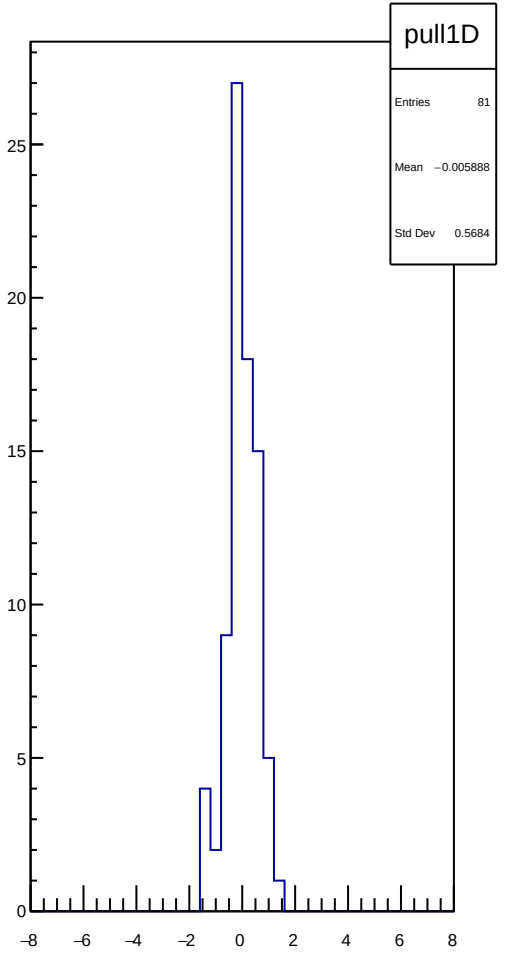

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.692e+04 / 80
p0 215.3 ± 0.1738
600
550
500
450
400
350
300
250
200

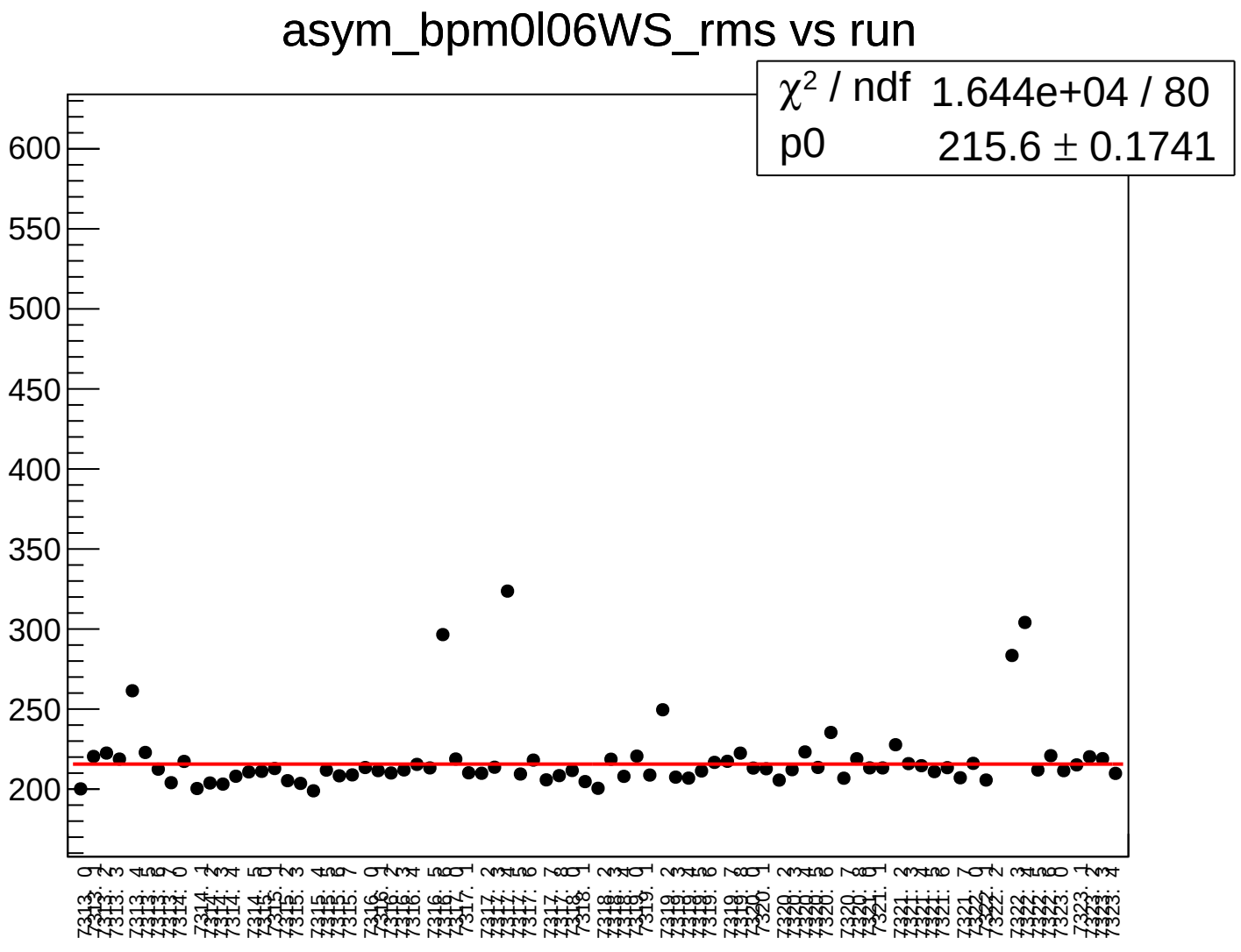

asym_bpm0l05WS_mean vs run
χ² / ndf 38.2 / 80
p0 4477 ± 250.9
pull
Entries 81
Mean 775.6
Std Dev 702.8

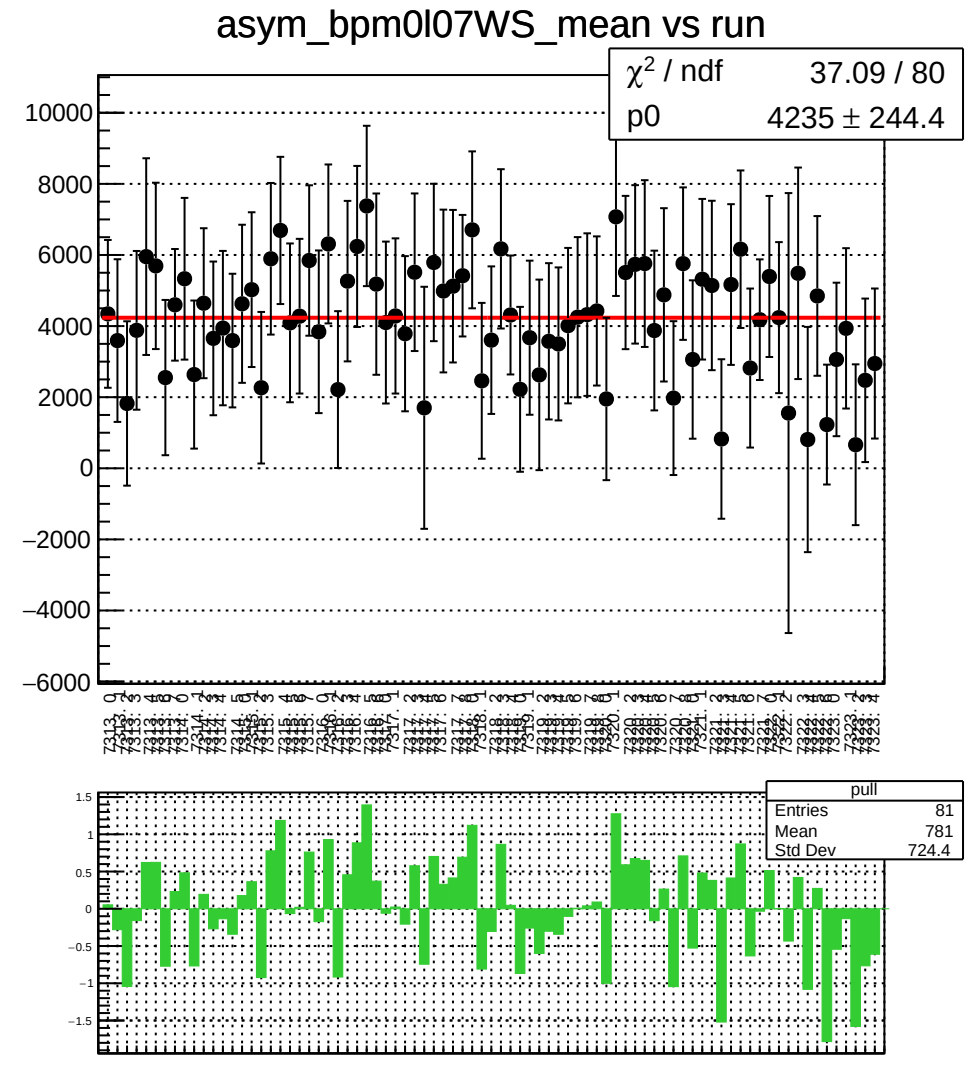

pull1D
Entries 81
Mean −0.002868
Std Dev 0.6868

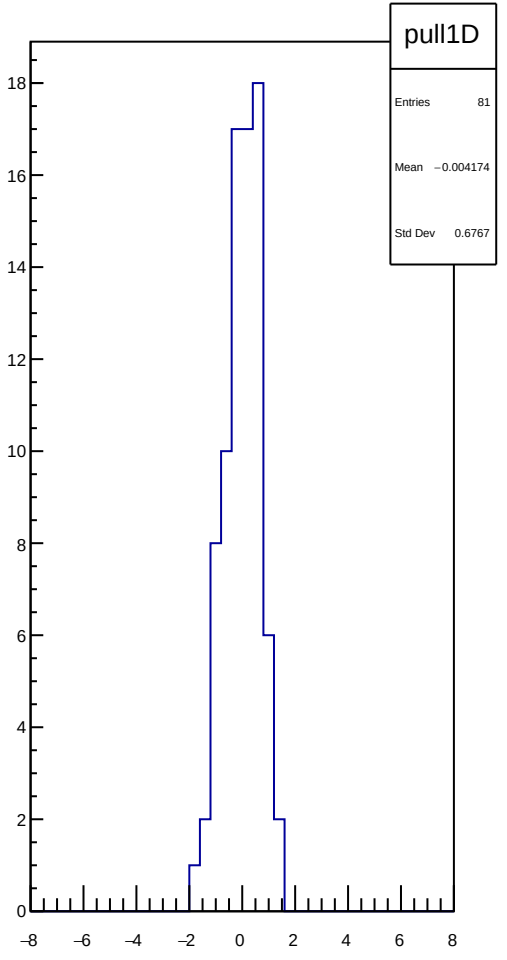

asym_bpm0l05WS_rms vs run
χ^2 / ndf 1.621e+04 / 80
p0 219.8 ± 0.1774
600
550
500
450
400
350
300
250
200

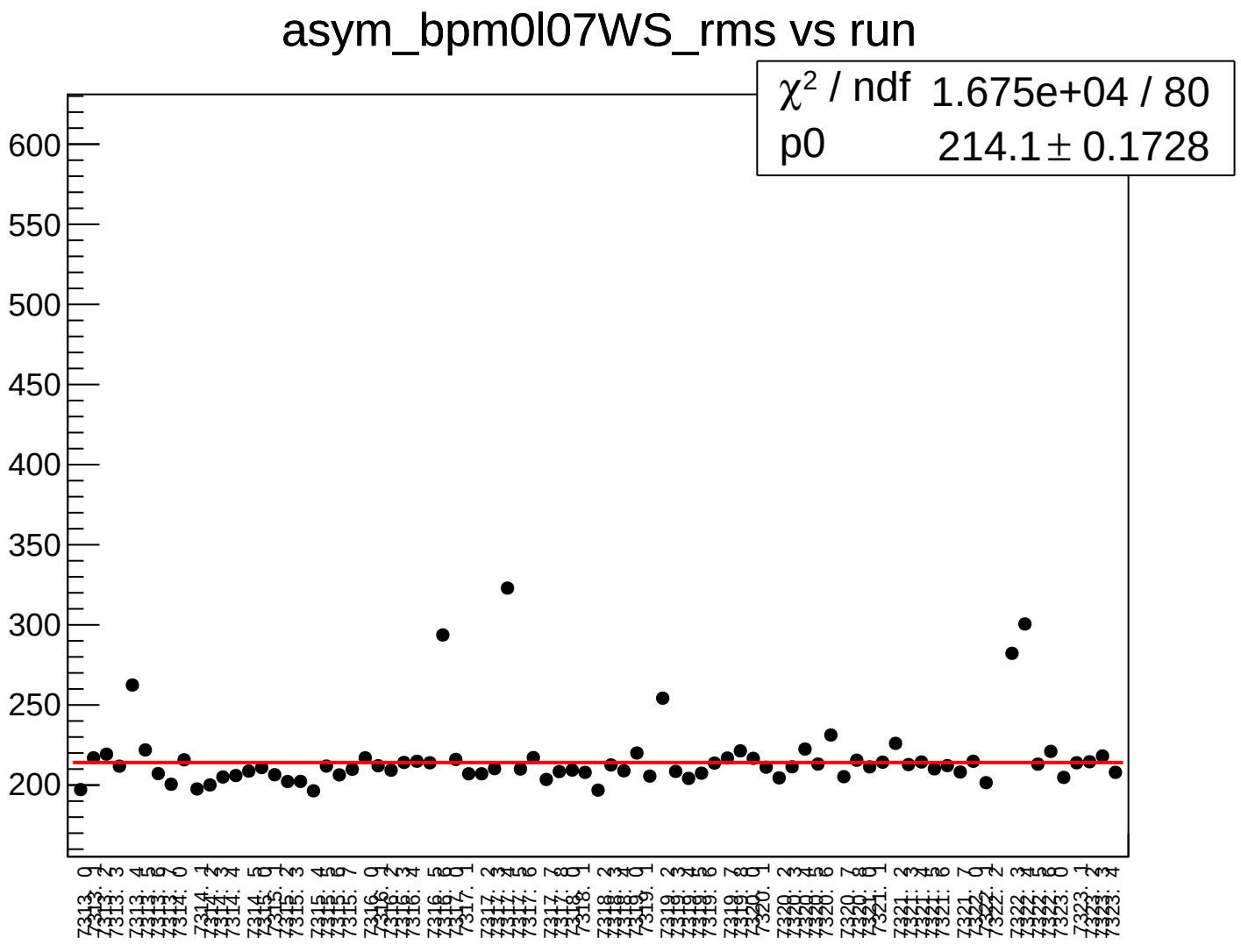

asym_bpm0l06WS_mean vs run
χ² / ndf 26.17 / 80
p0 4399 ± 246.2
pull
Entries 81
Mean 332.2
Std Dev 266.5

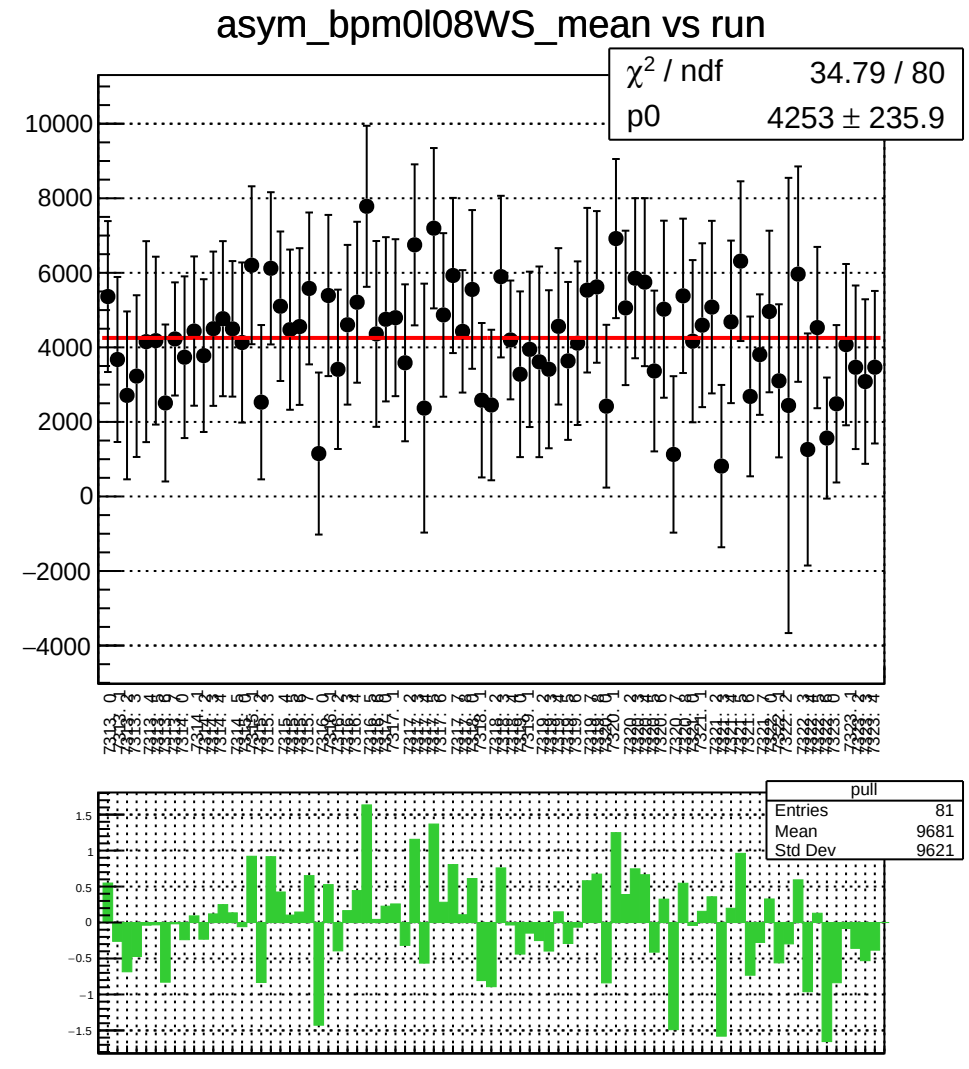

pull1D
Entries 81
Mean −0.005888
Std Dev 0.5684

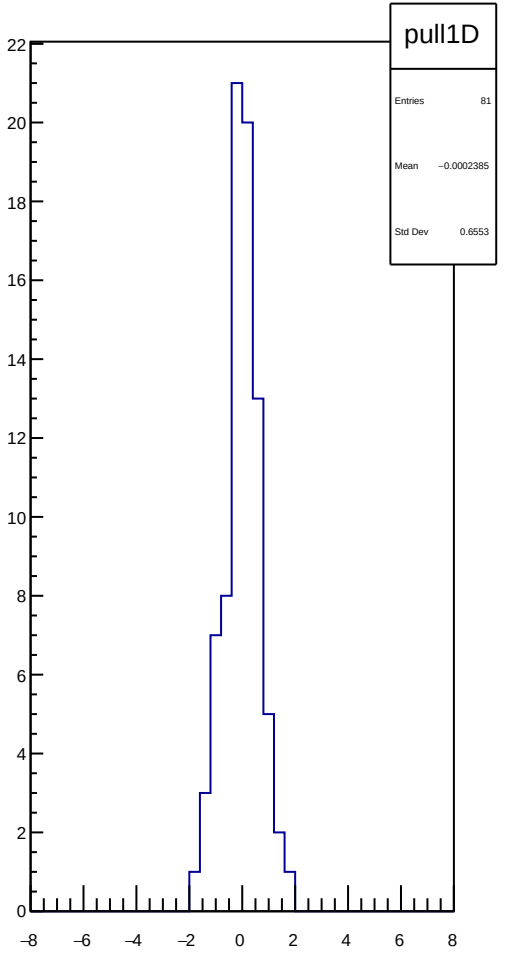

asym_bpm0l06WS_rms vs run
χ² / ndf 1.644e+04 / 80
p0 215.6 ± 0.1741
600
550
500
450
400
350
300
250
200

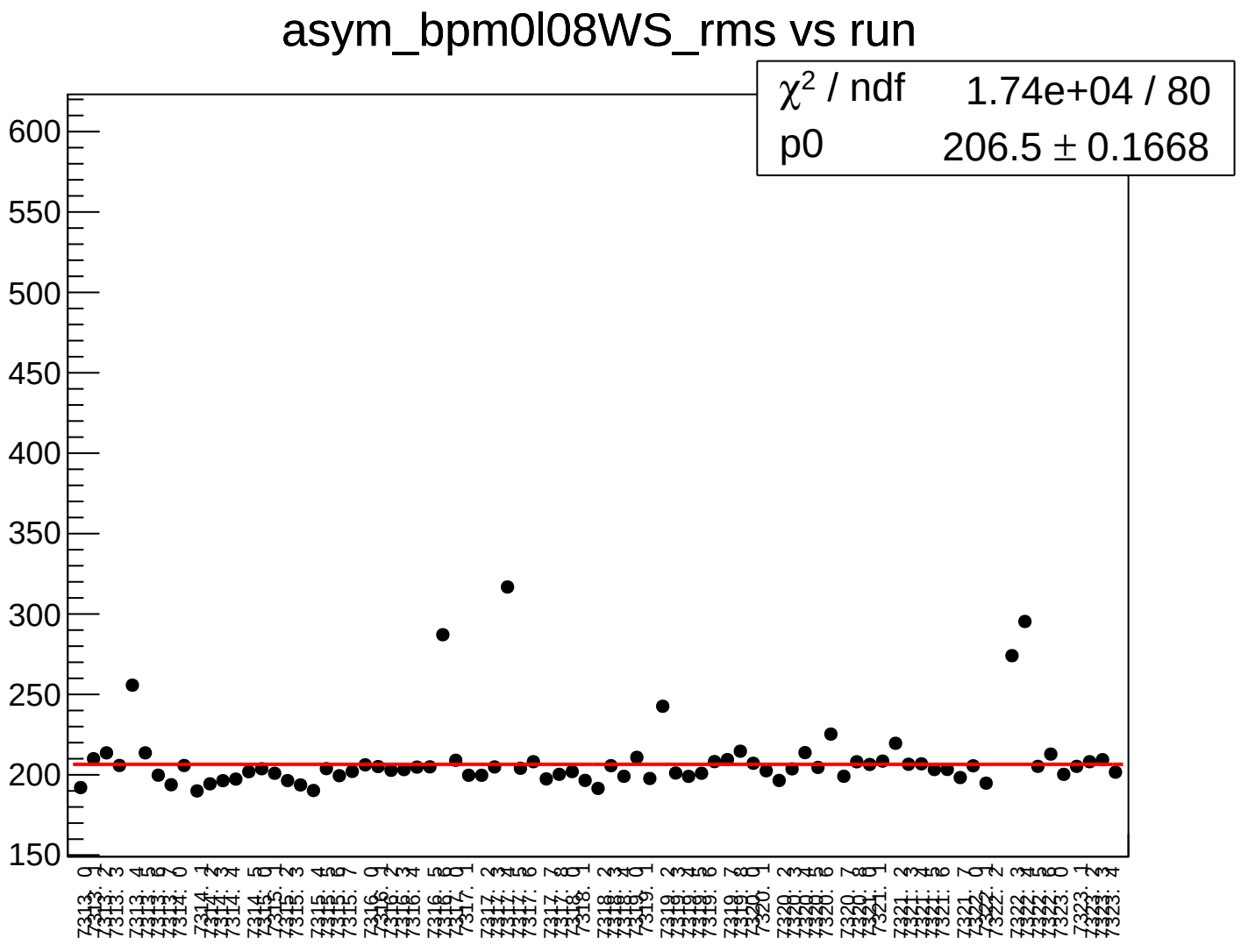

asym_bpm0l07WS_mean vs run
χ² / ndf 37.09 / 80
p0 4235 ± 244.4
pull
Entries 81
Mean 781
Std Dev 724.4

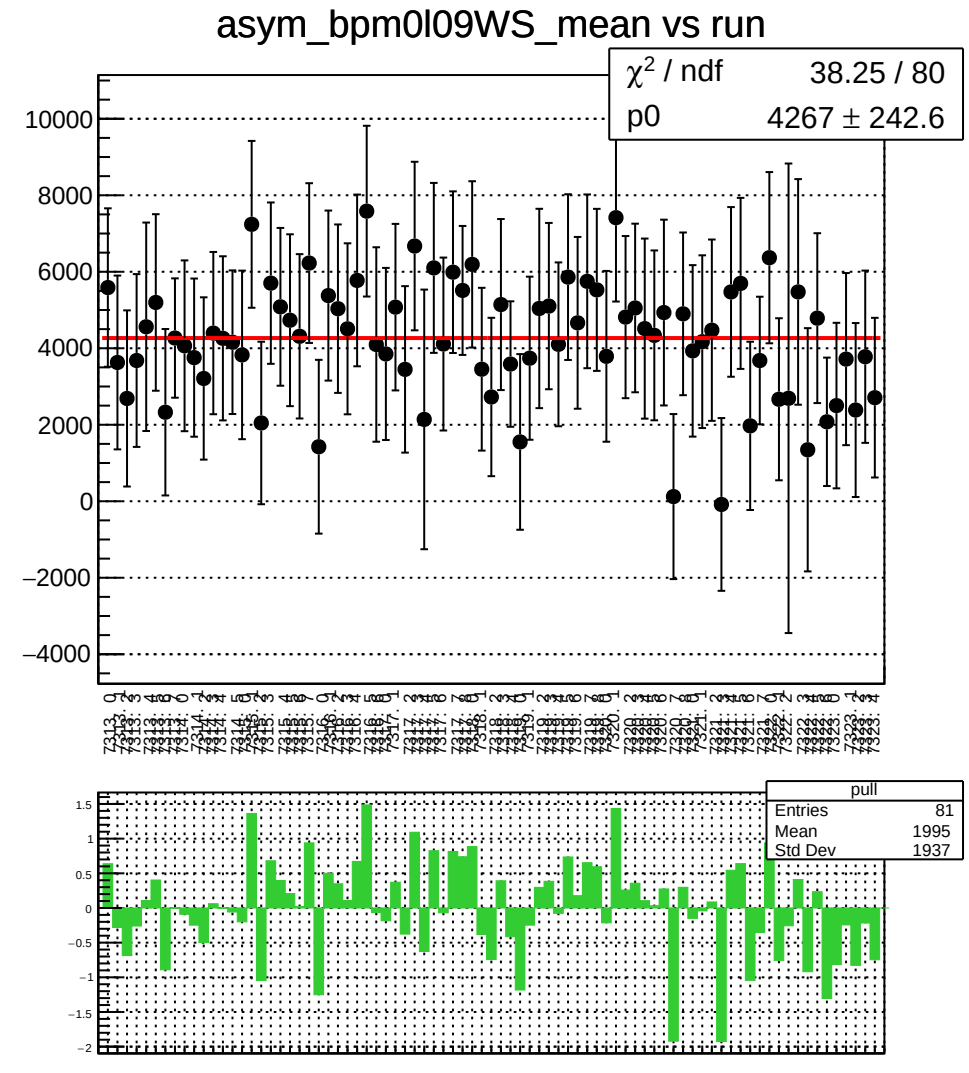

pull1D
Entries 81
Mean −0.004174
Std Dev 0.6767

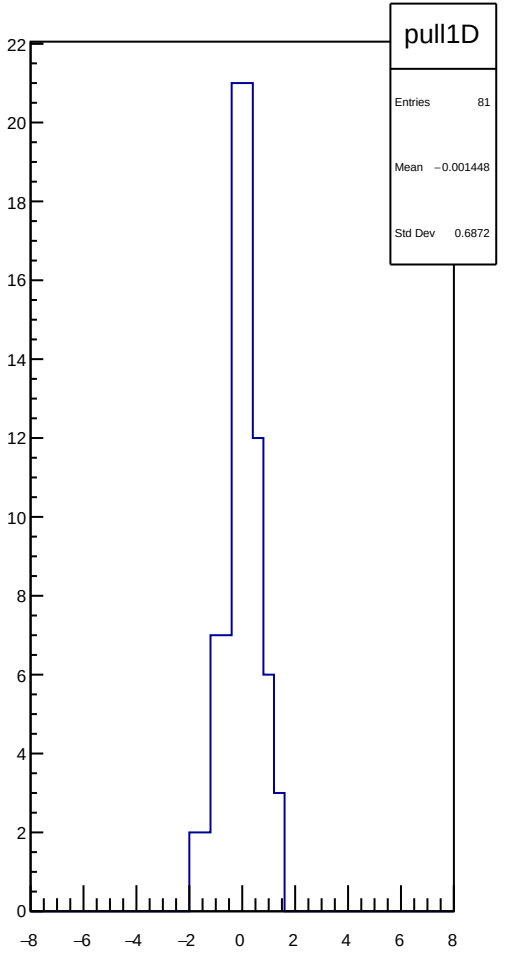

asym_bpm0l07WS_rms vs run
χ² / ndf 1.675e+04 / 80
p0 214.1 ± 0.1728
600
550
500
450
400
350
300
250
200

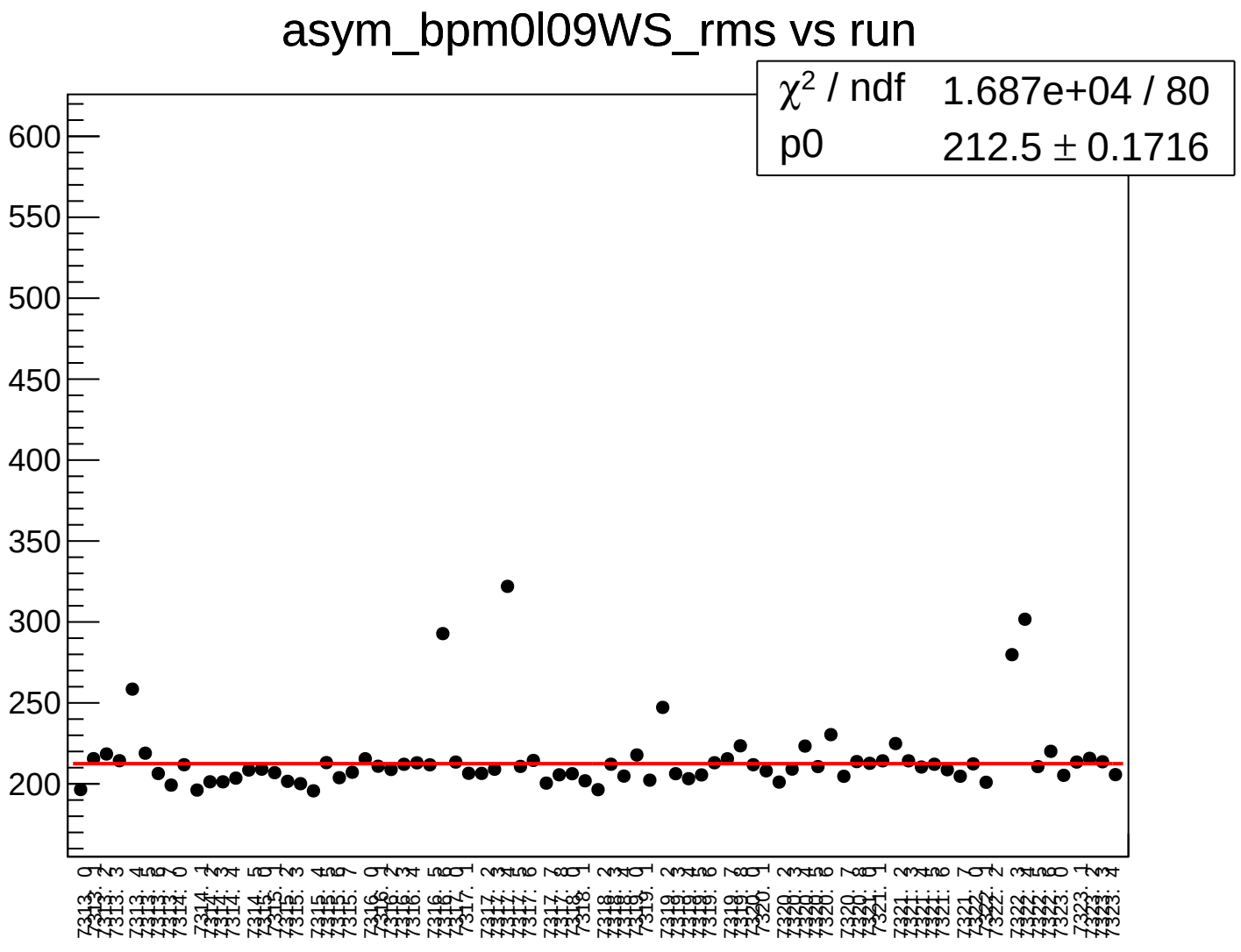

asym_bpm0l08WS_mean vs run
χ² / ndf 34.79 / 80
p0 4253 ± 235.9
pull
Entries 81
Mean 9681
Std Dev 9621

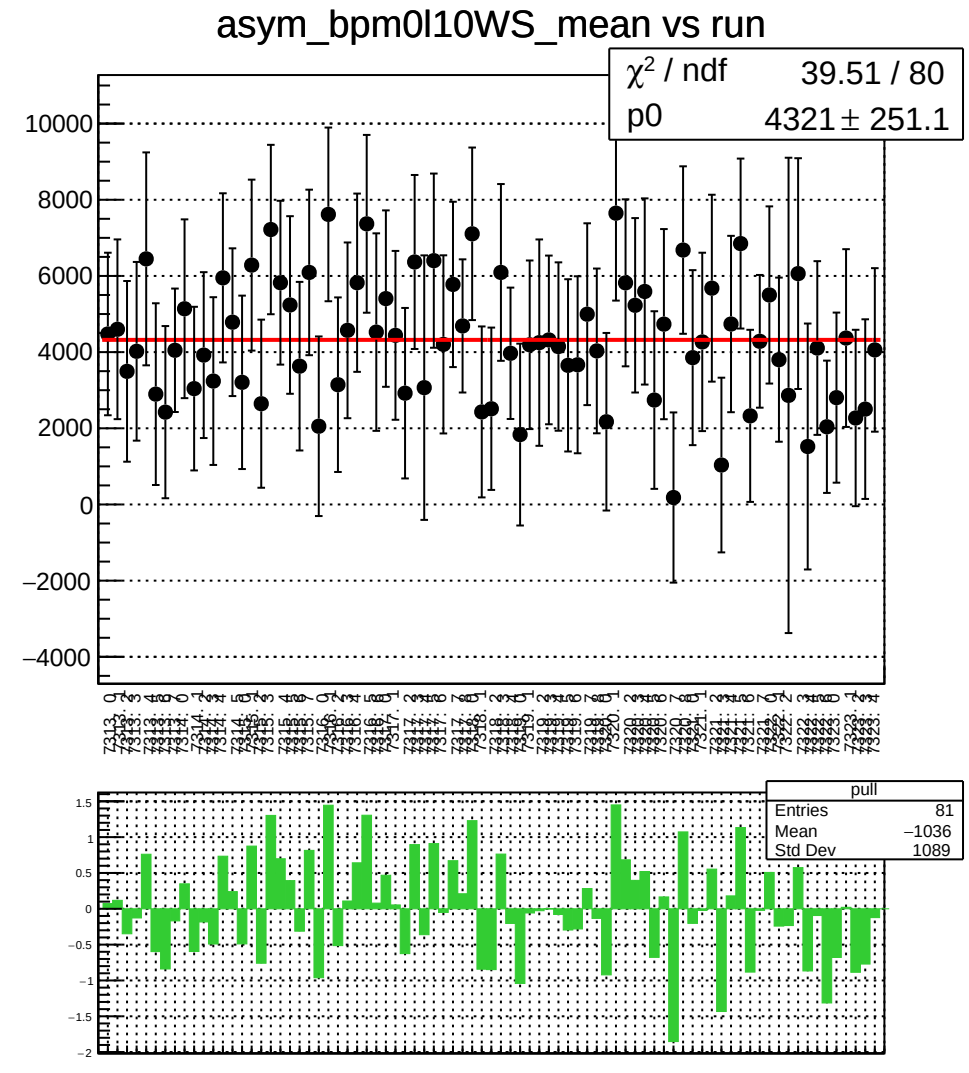

pull1D
Entries 81
Mean −0.0002385
Std Dev 0.6553

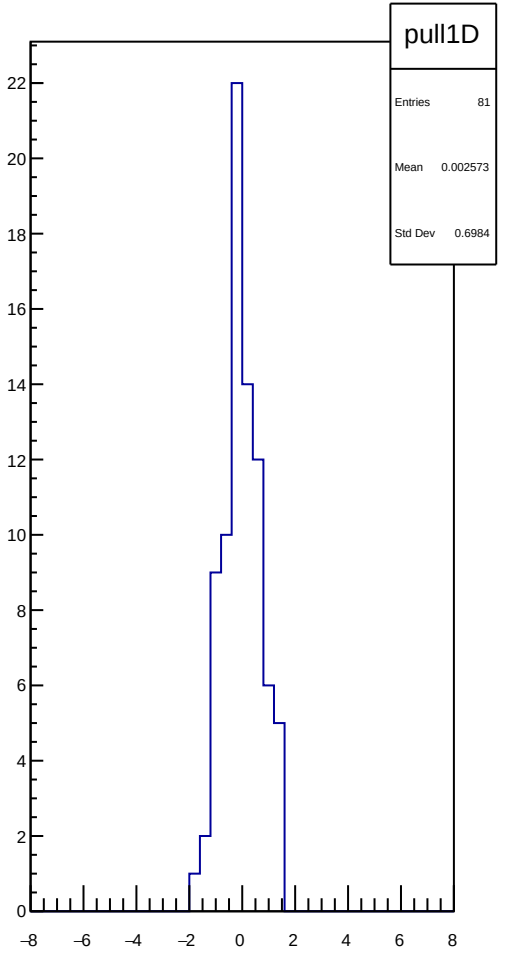

asym_bpm0l08WS_rms vs run
χ^2 / ndf 1.74e+04 / 80
p0 206.5 ± 0.1668
600
550
500
450
400
350
300
250
200
150

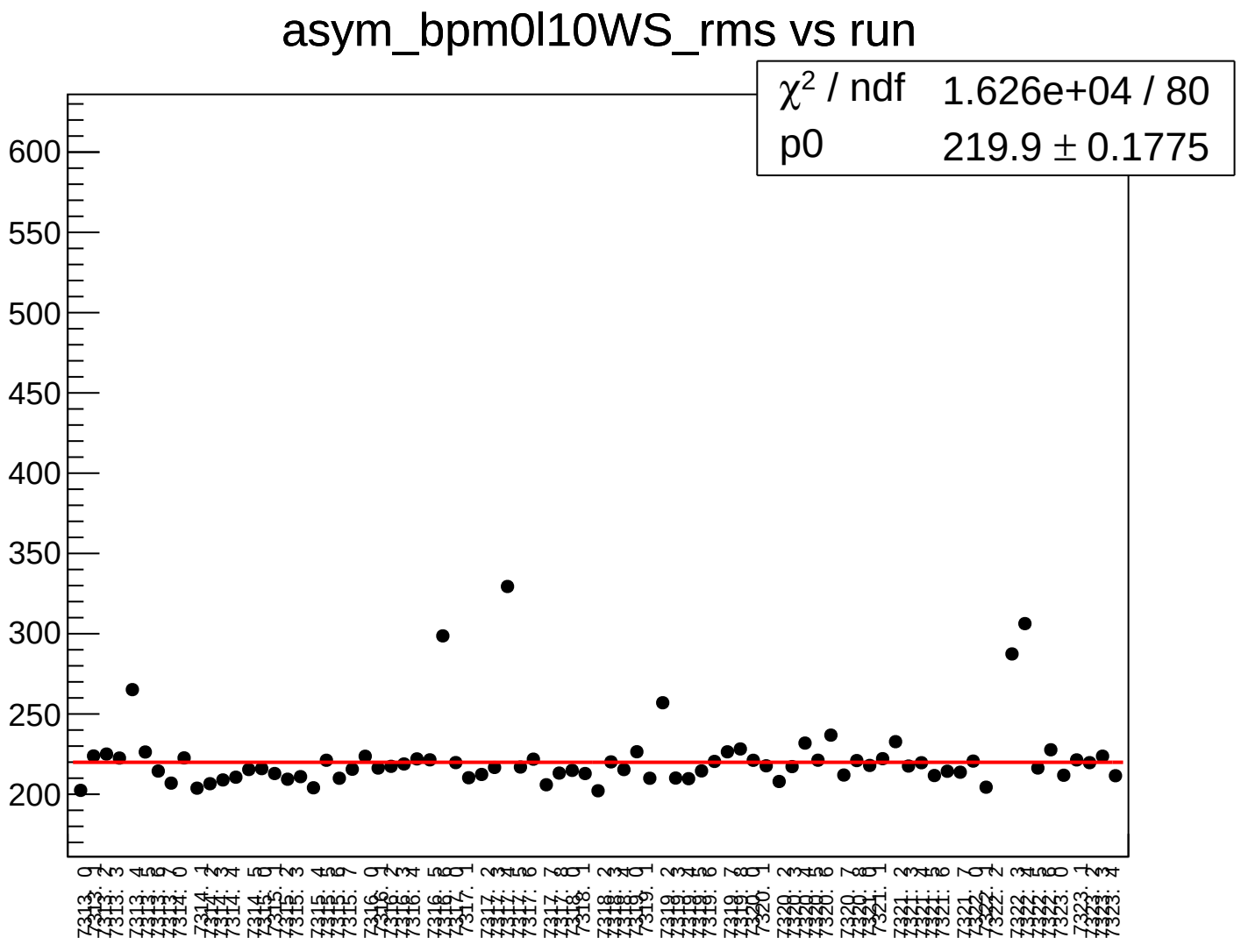

asym_bpm0l09WS_mean vs run
χ² / ndf 38.25 / 80
p0 4267 ± 242.6
pull
Entries 81
Mean 1995
Std Dev 1937

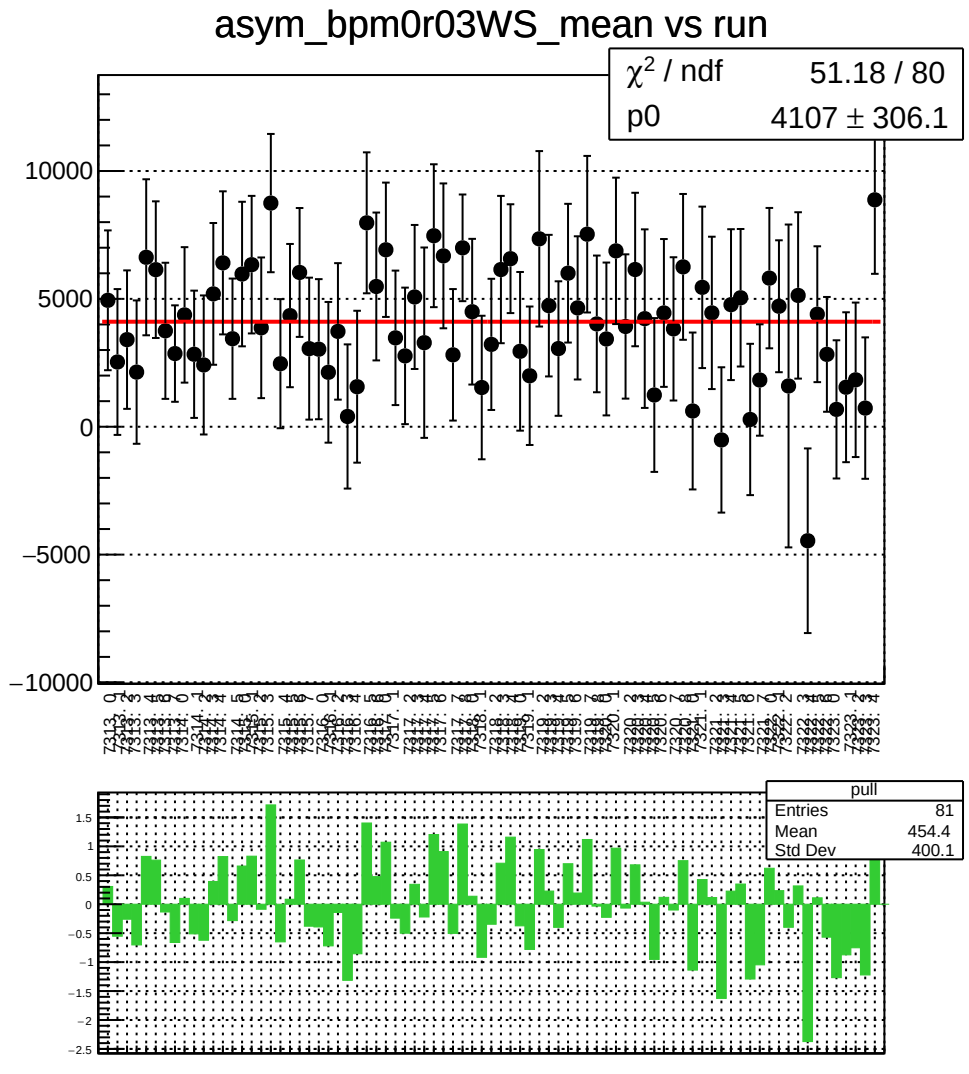

pull1D
Entries 81
Mean −0.001448
Std Dev 0.6872

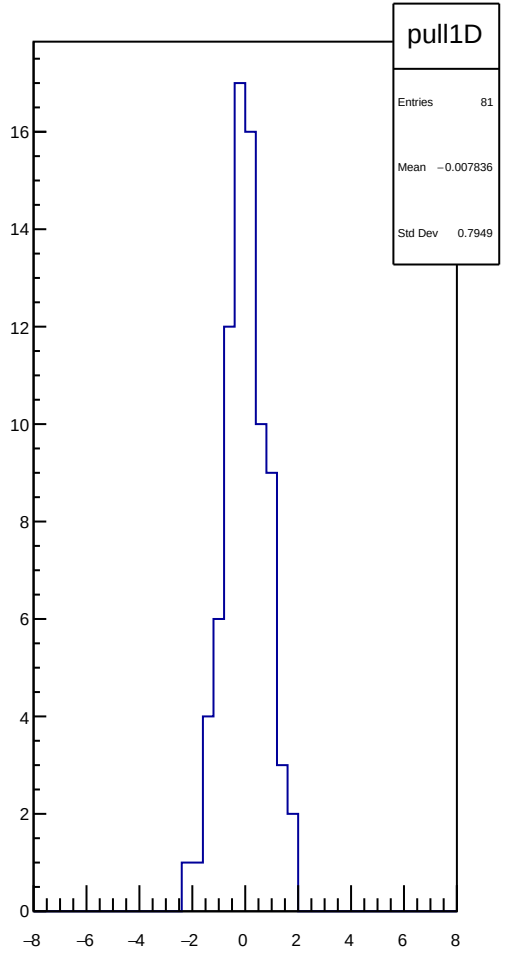

asym_bpm0l09WS_rms vs run
χ² / ndf 1.687e+04 / 80
p0 212.5 ± 0.1716
600
550
500
450
400
350
300
250
200

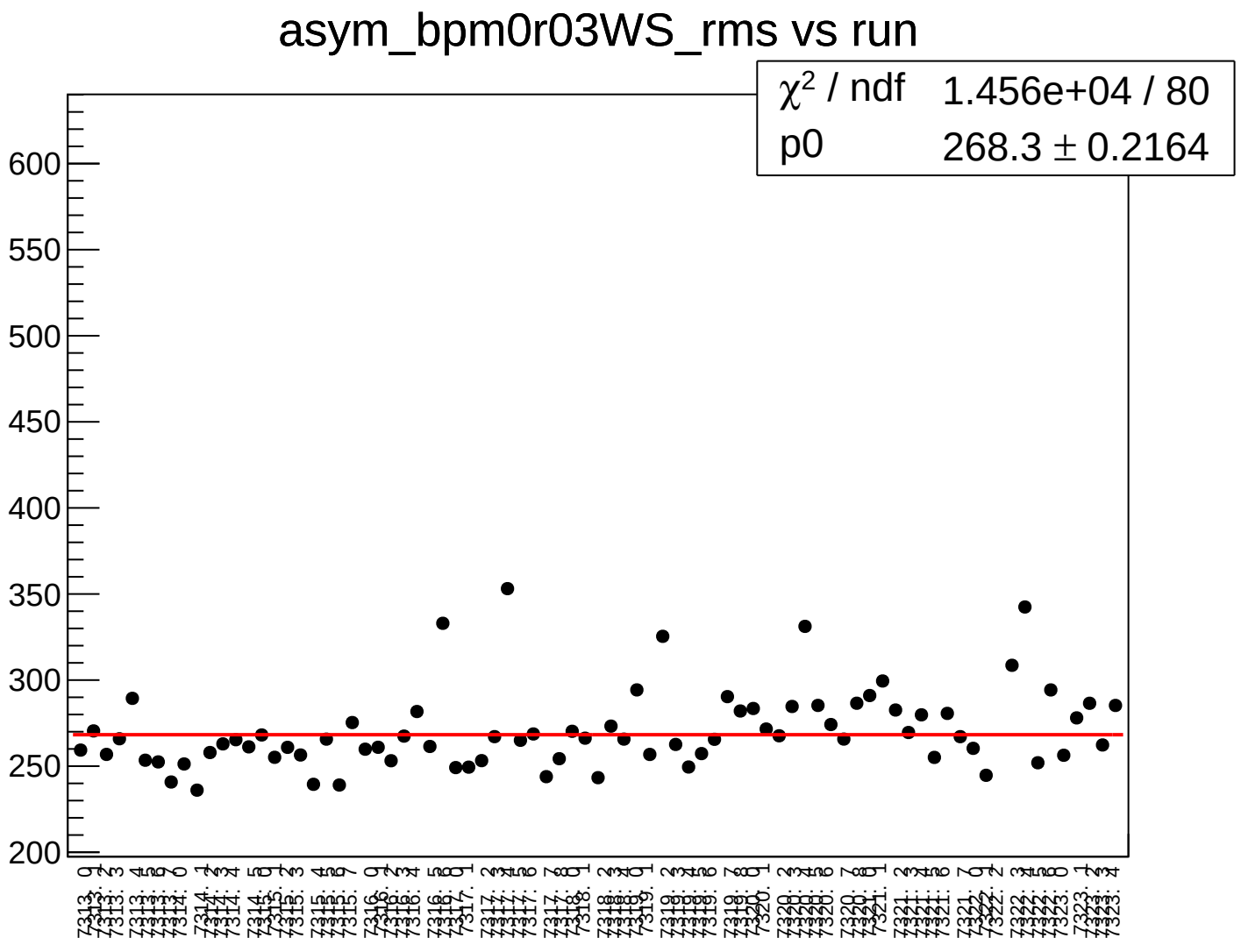

asym_bpm0l10WS_mean vs run
χ² / ndf 39.51 / 80
p0 4321 ± 251.1
pull
Entries 81
Mean −1036
Std Dev 1089

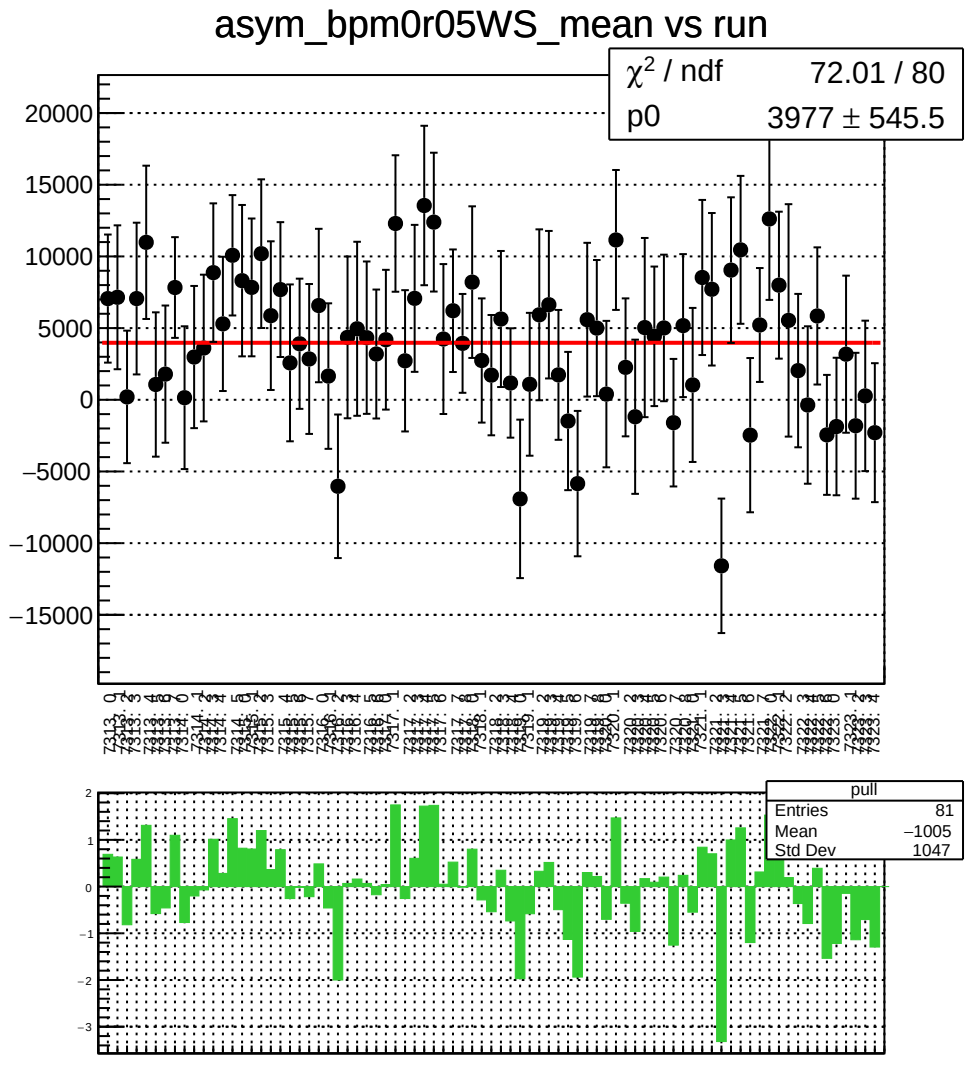

pull1D
Entries 81
Mean 0.002573
Std Dev 0.6984

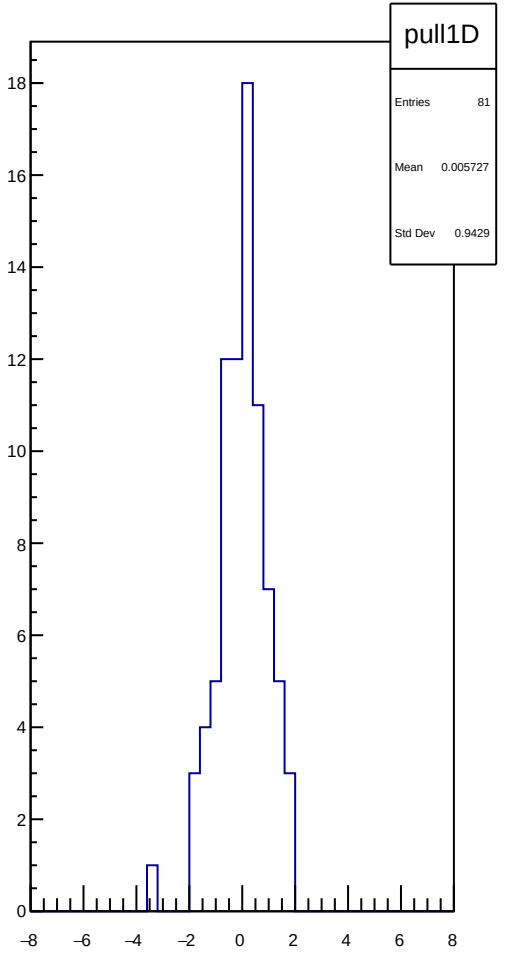

asym_bpm0l10WS_rms vs run
χ^2 / ndf 1.626e+04 / 80
p0 219.9 ± 0.1775
600
550
500
450
400
350
300
250
200

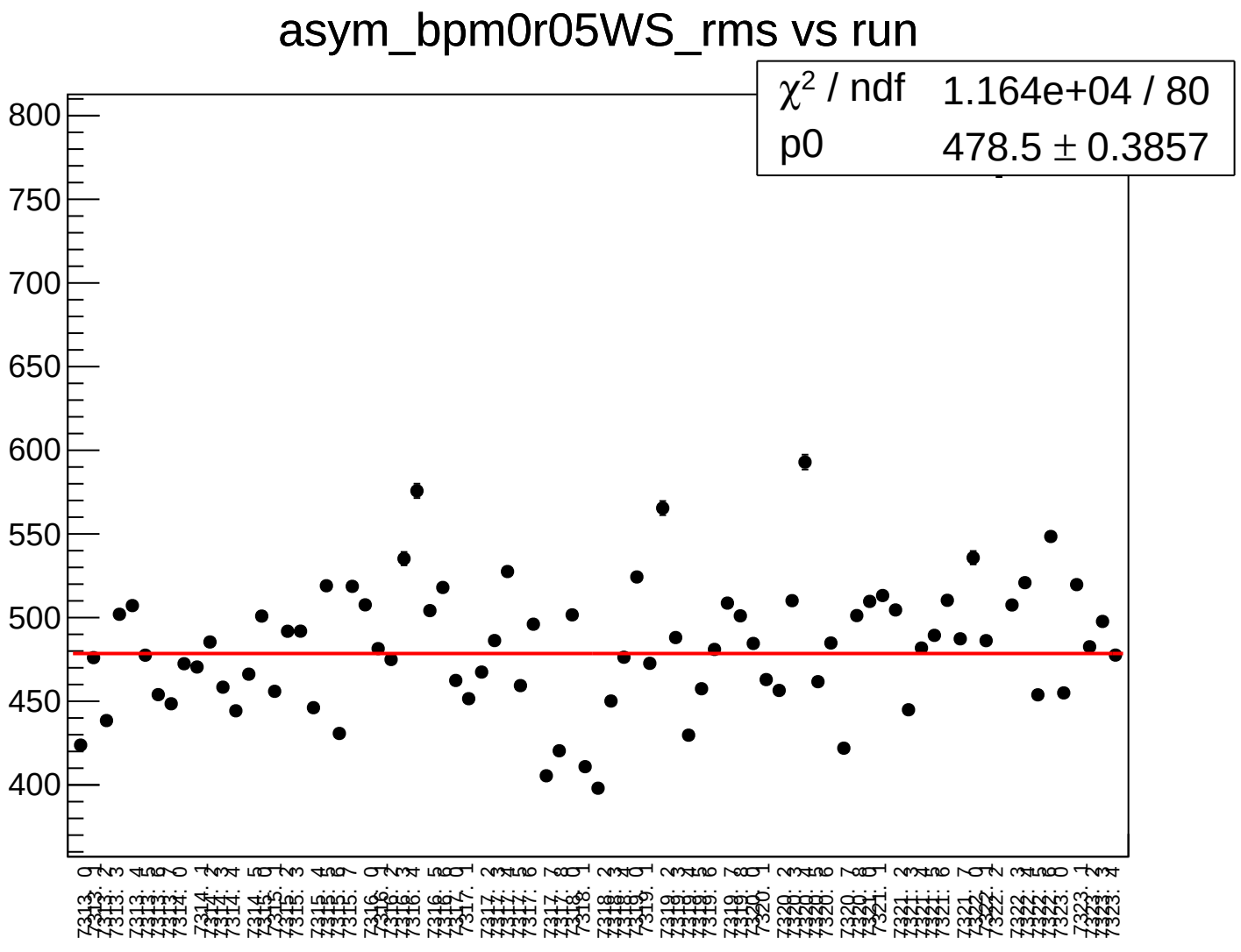

asym_bpm0r03WS_mean vs run
χ^2 / ndf 51.18 / 80
p0 4107 ± 306.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 454.4
Std Dev 400.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

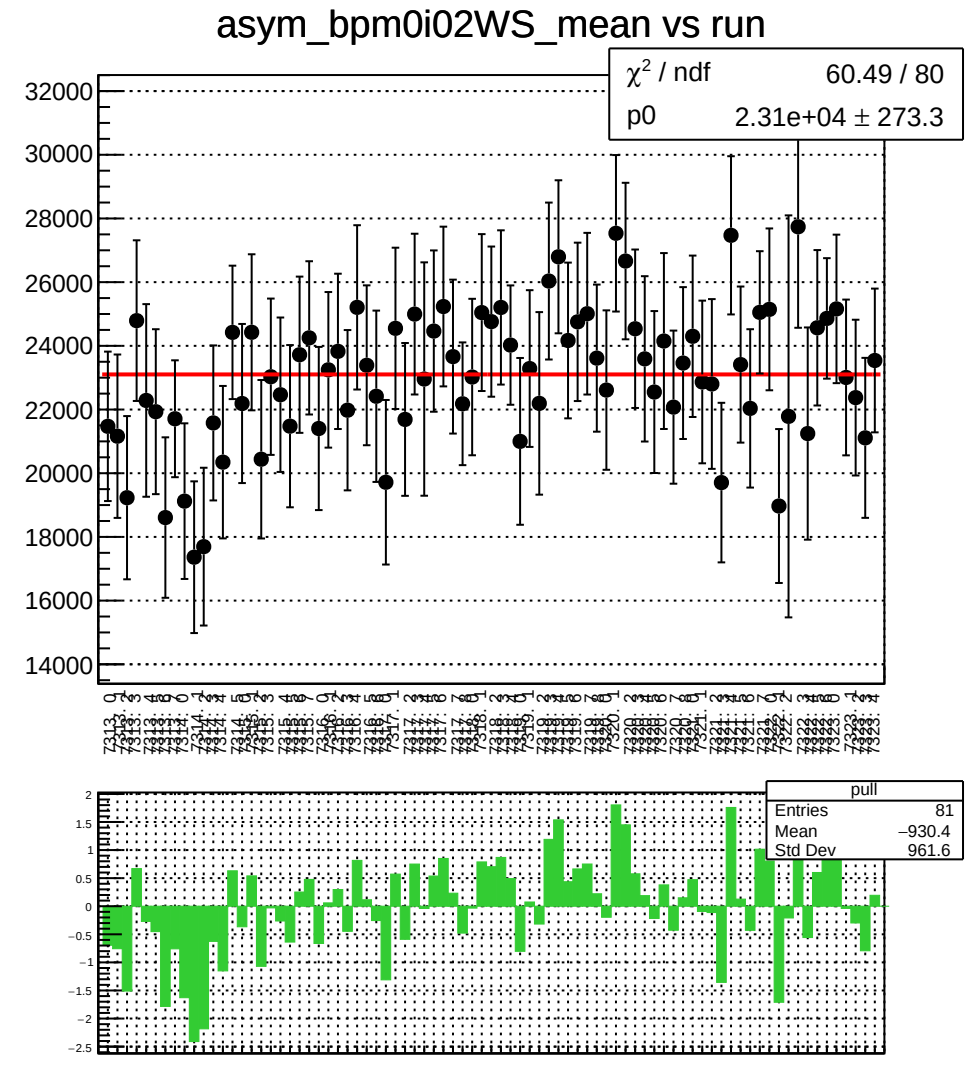

pull1D
Entries 81
Mean −0.007836
Std Dev 0.7949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

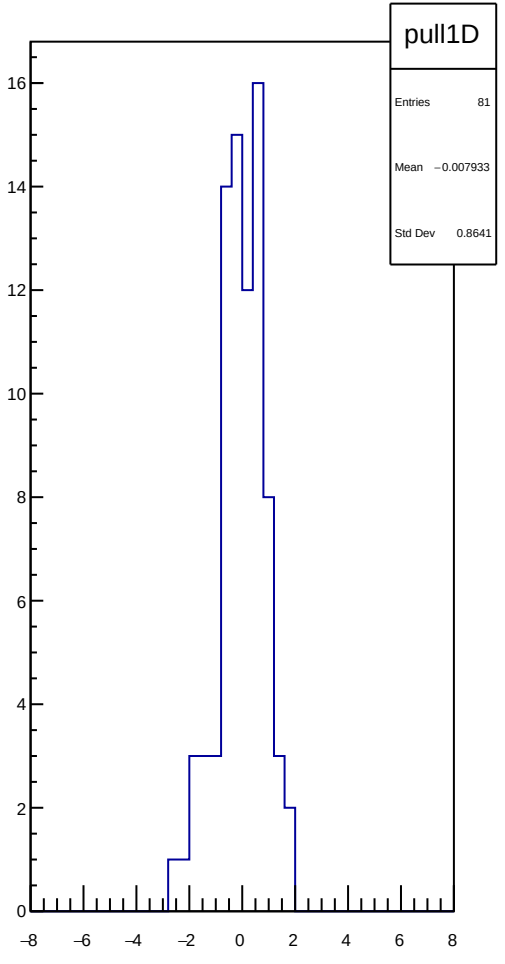

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.456e+04 / 80
p0 268.3 ± 0.2164
600
550
500
450
400
350
300
250
200

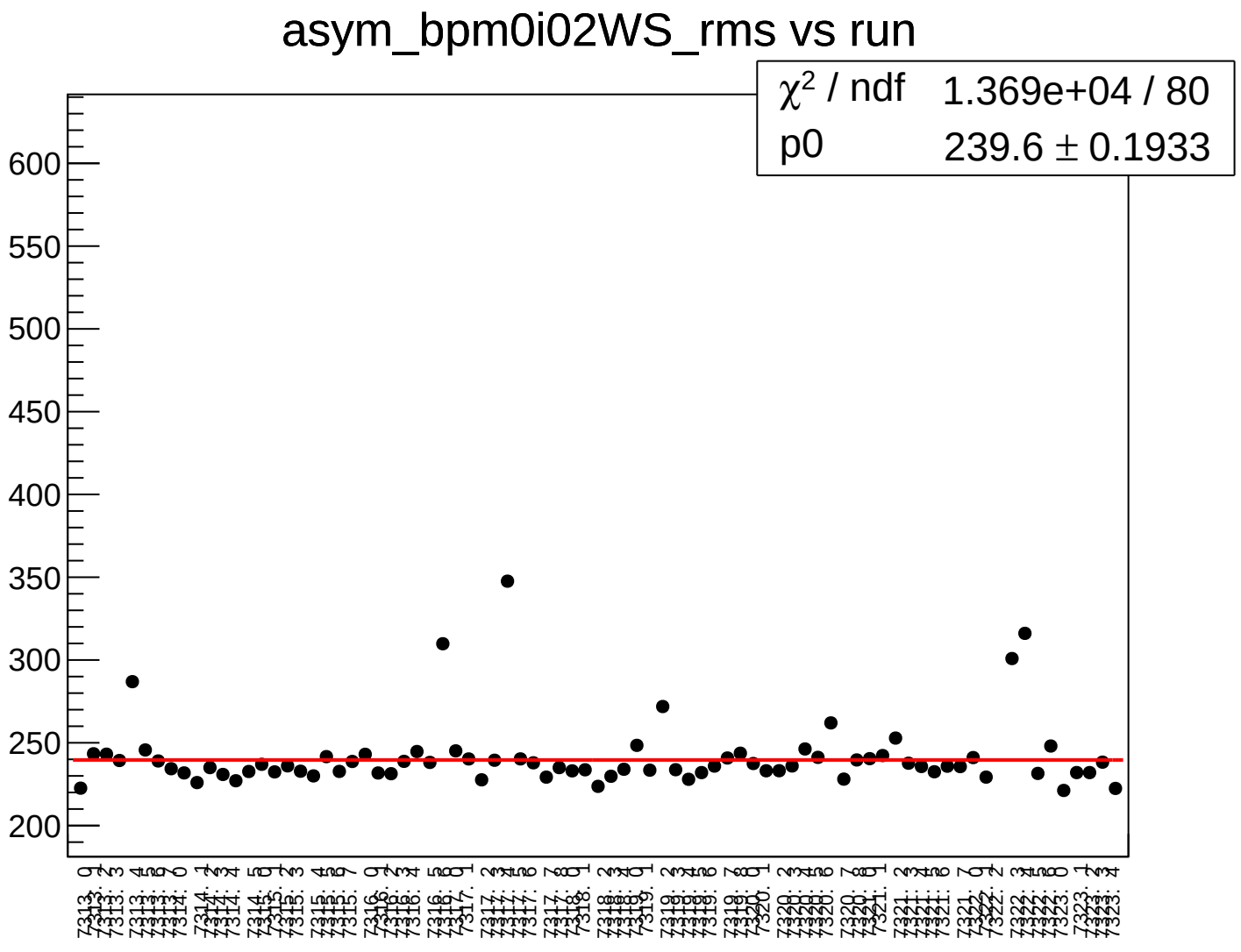

asym_bpm0r05WS_mean vs run
χ² / ndf 72.01 / 80
p0 3977 ± 545.5
pull
Entries 81
Mean −1005
Std Dev 1047

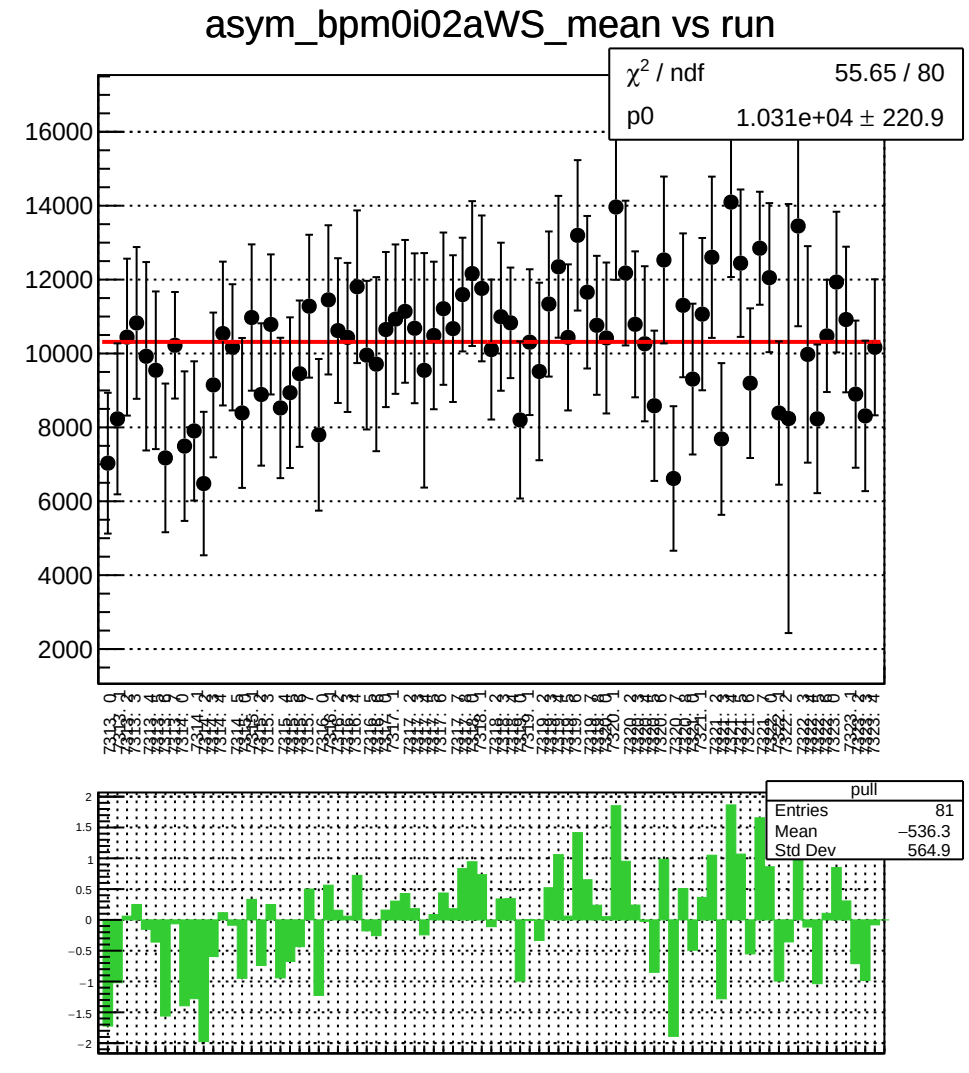

pull1D
Entries 81
Mean 0.005727
Std Dev 0.9429

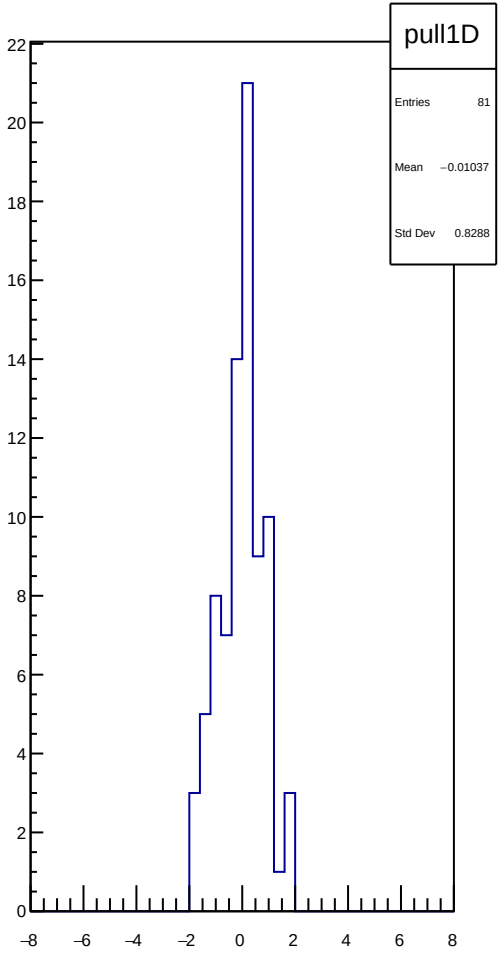

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.164e+04 / 80
p0 478.5 ± 0.3857
800
750
700
650
600
550
500
450
400

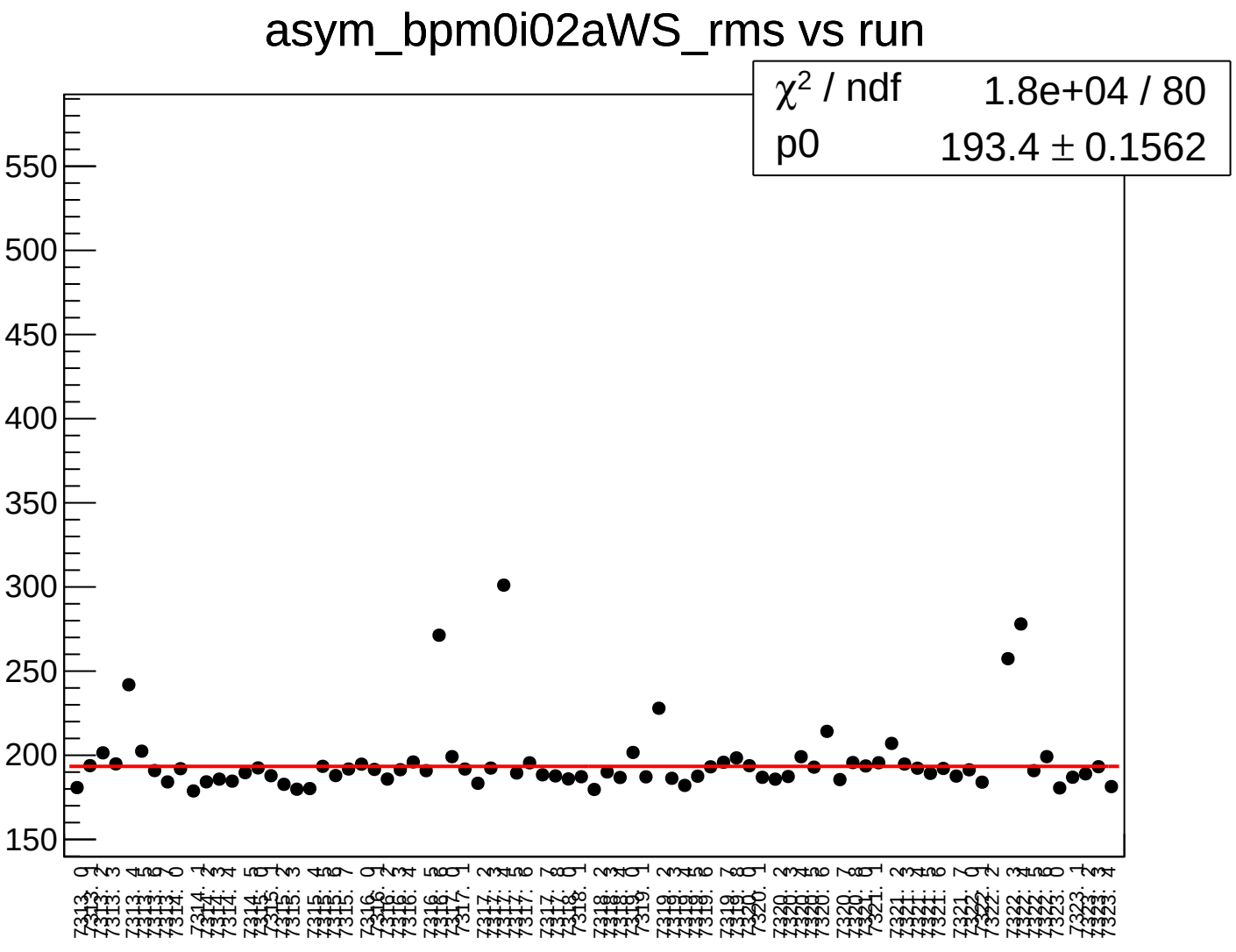

asym_bpm0i02WS_mean vs run
χ² / ndf 60.49 / 80
p0 2.31e+04 ± 273.3
pull
Entries 81
Mean −930.4
Std Dev 961.6

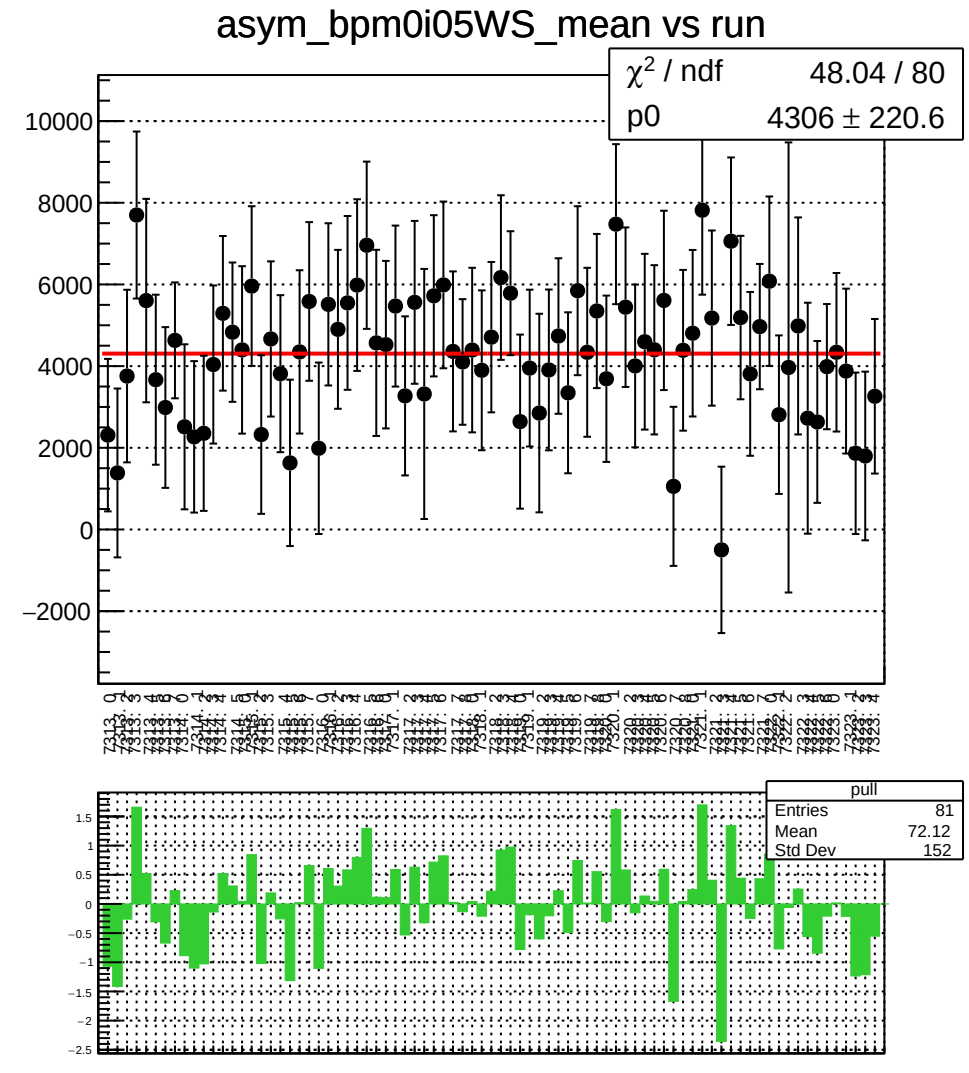

pull1D
Entries 81
Mean −0.007933
Std Dev 0.8641

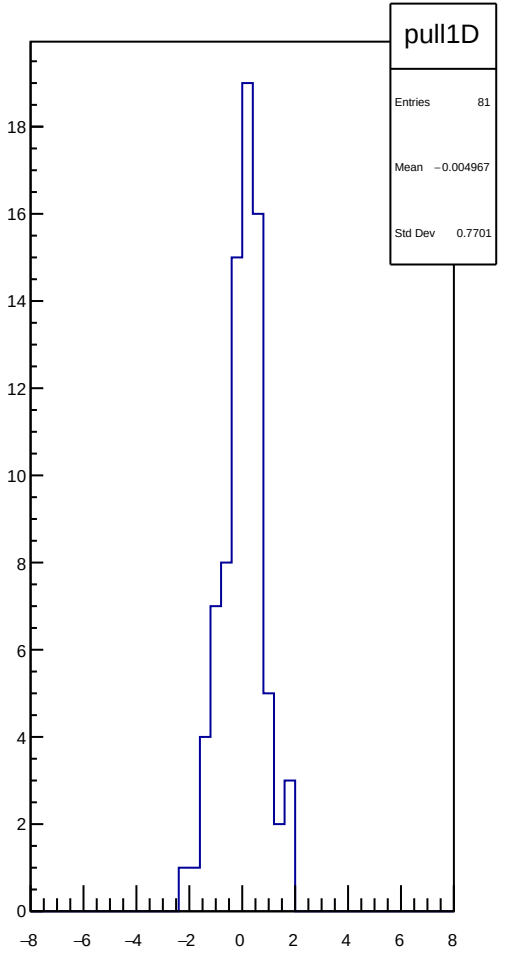

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.369e+04 / 80
p0 239.6 ± 0.1933
600
550
500
450
400
350
300
250
200

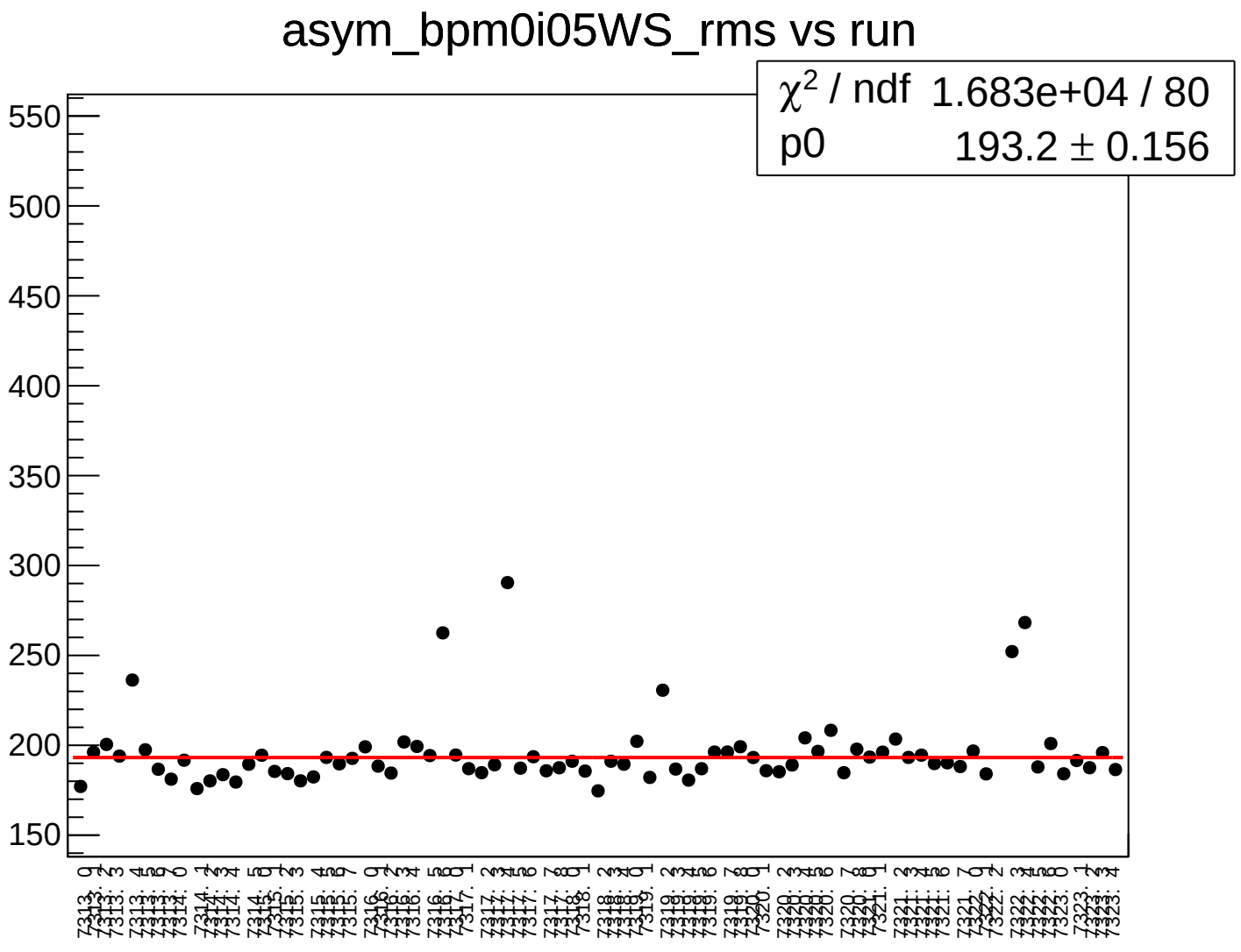

asym_bpm0i02aWS_mean vs run
χ² / ndf 55.65 / 80
p0 1.031e+04 ± 220.9
pull
Entries 81
Mean −536.3
Std Dev 564.9

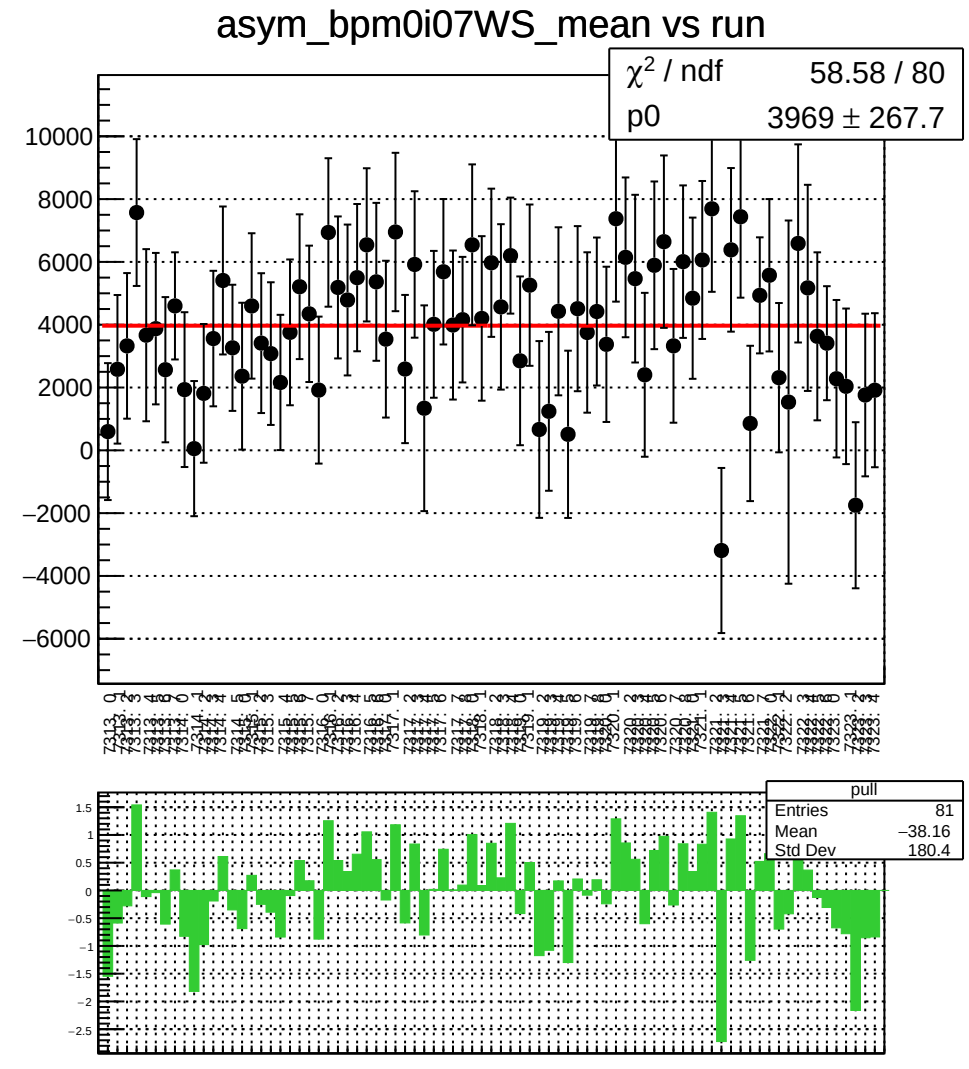

pull1D
Entries 81
Mean −0.01037
Std Dev 0.8288

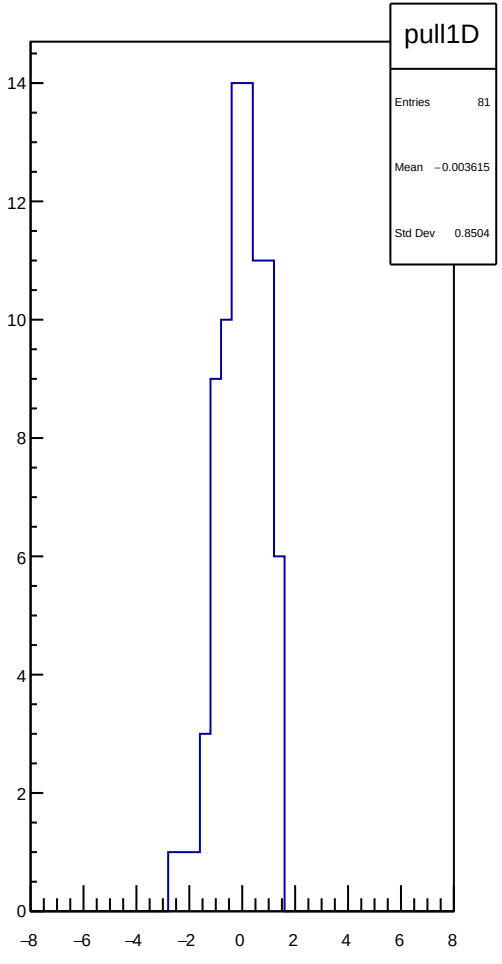

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.8e+04 / 80
p0 193.4 ± 0.1562
550
500
450
400
350
300
250
200
150

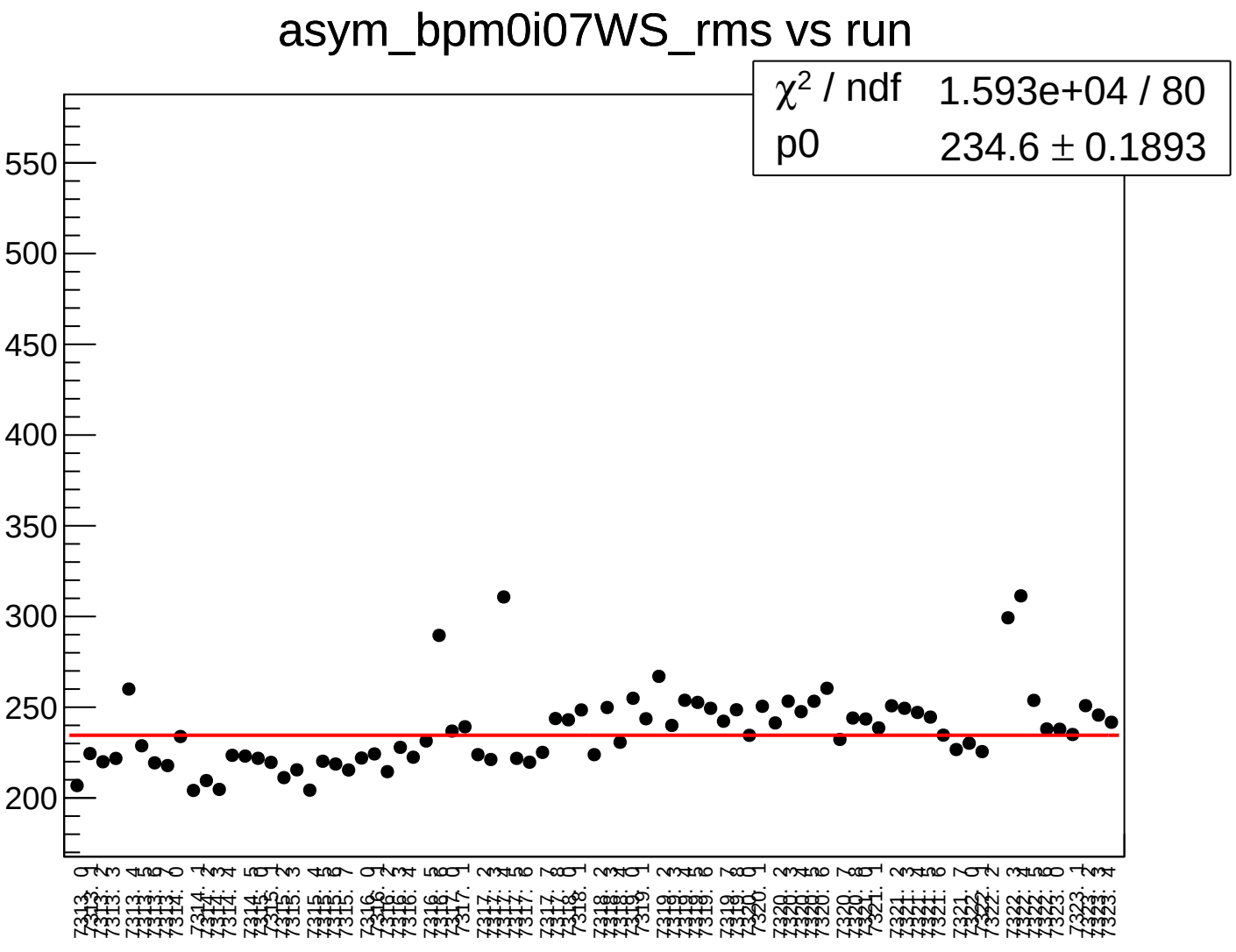

asym_bpm0i05WS_mean vs run
χ² / ndf 48.04 / 80
p0 4306 ± 220.6
pull
Entries 81
Mean 72.12
Std Dev 152

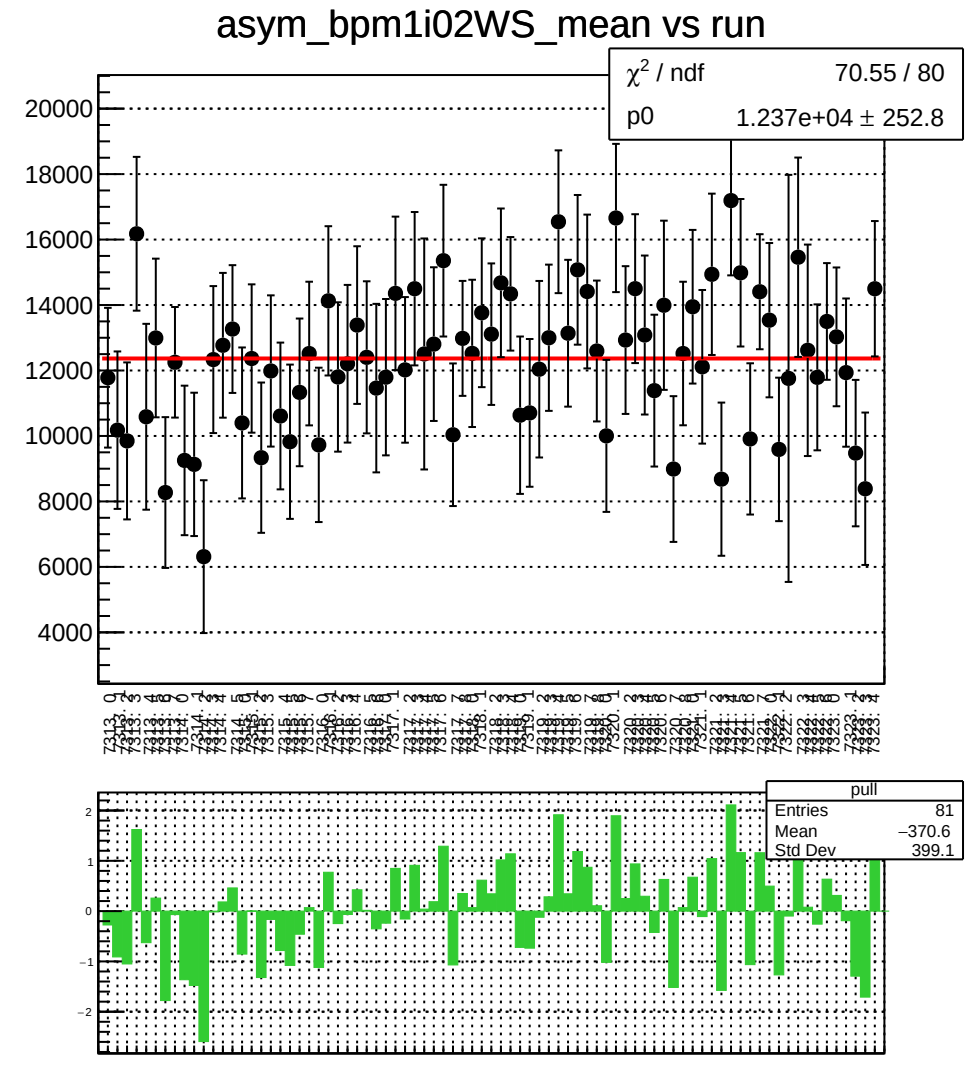

pull1D
Entries 81
Mean −0.004967
Std Dev 0.7701

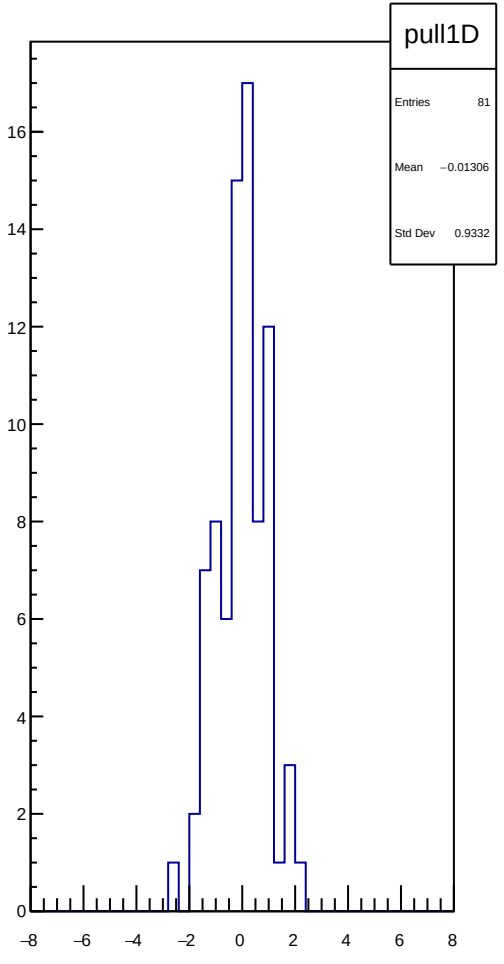

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.683e+04 / 80
p0 193.2 ± 0.156
550
500
450
400
350
300
250
200
150

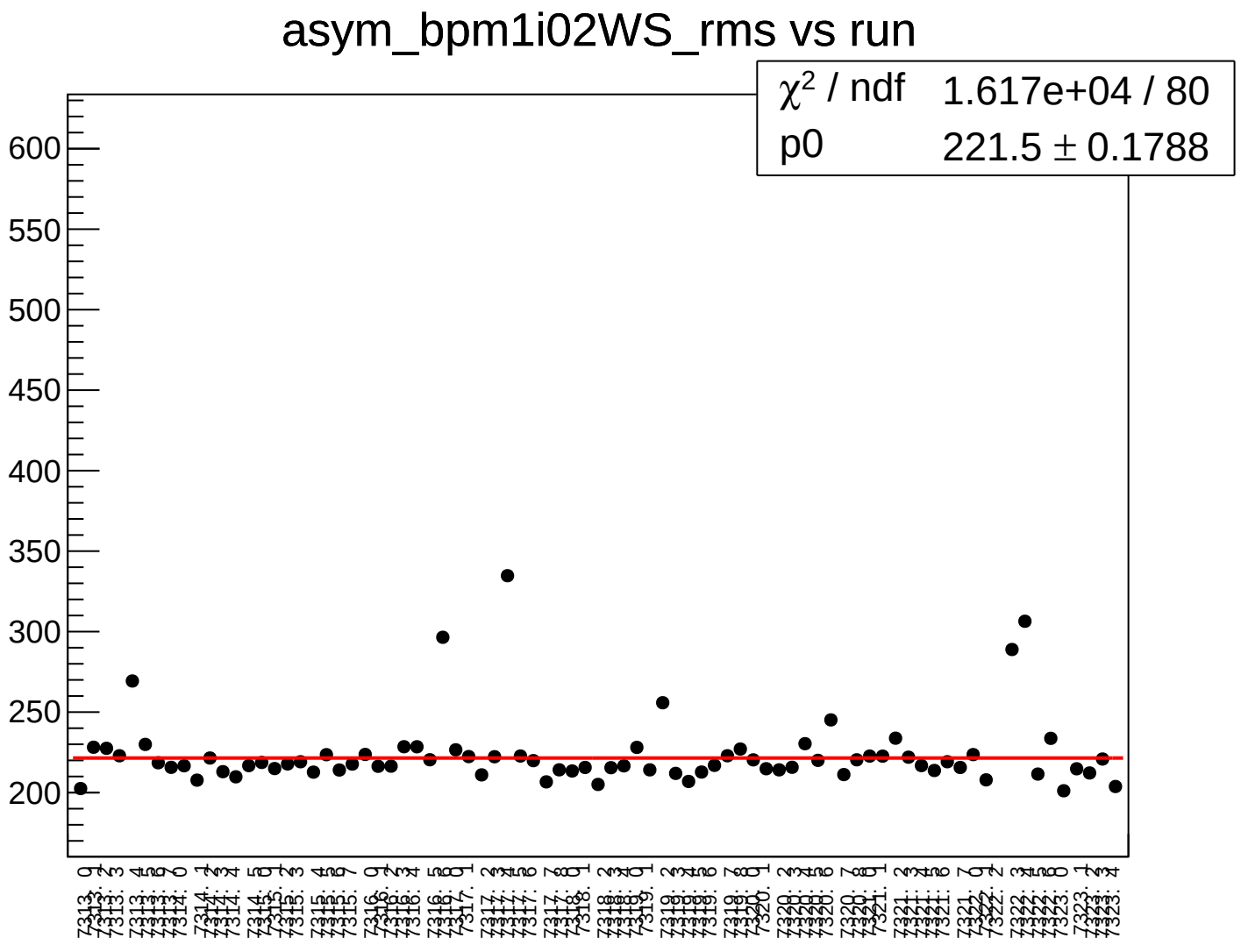

asym_bpm0i07WS_mean vs run
χ² / ndf 58.58 / 80
p0 3969 ± 267.7
pull
Entries 81
Mean −38.16
Std Dev 180.4

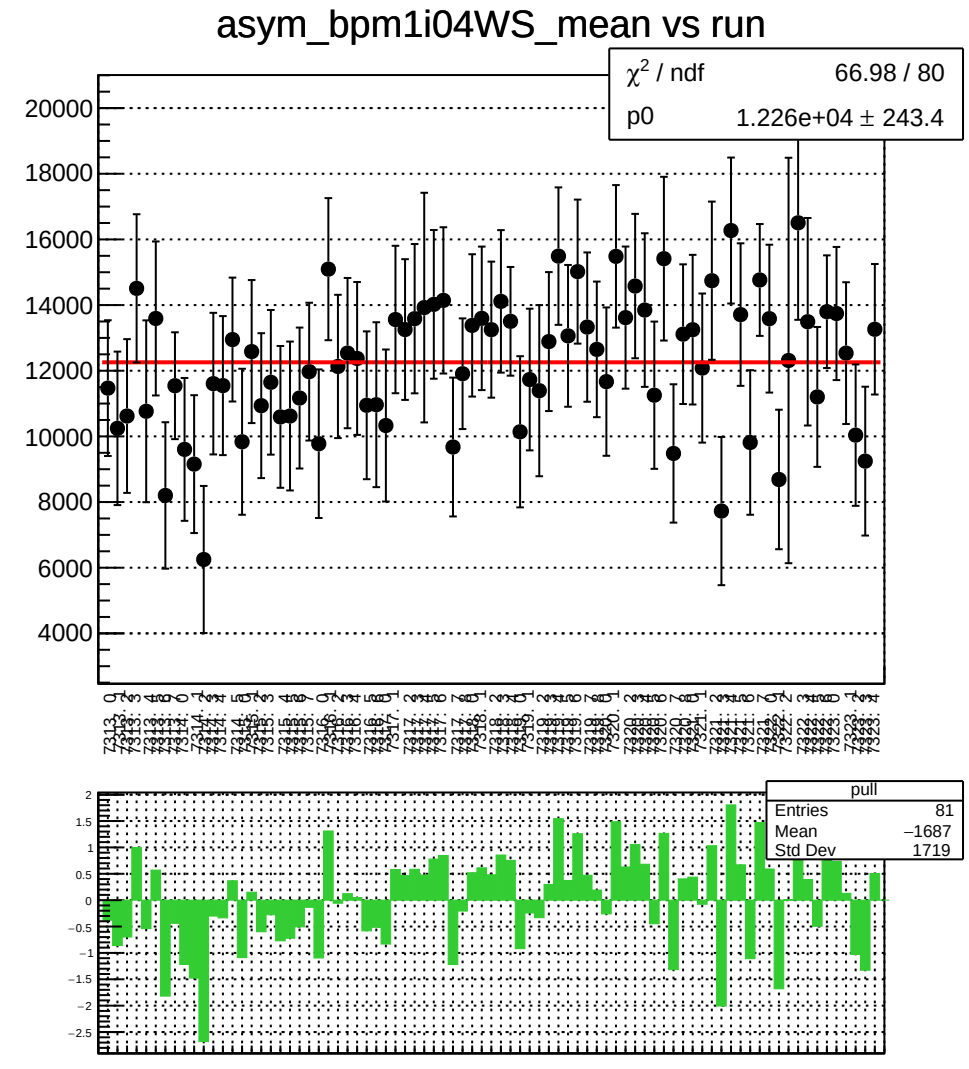

pull1D
Entries 81
Mean −0.003615
Std Dev 0.8504

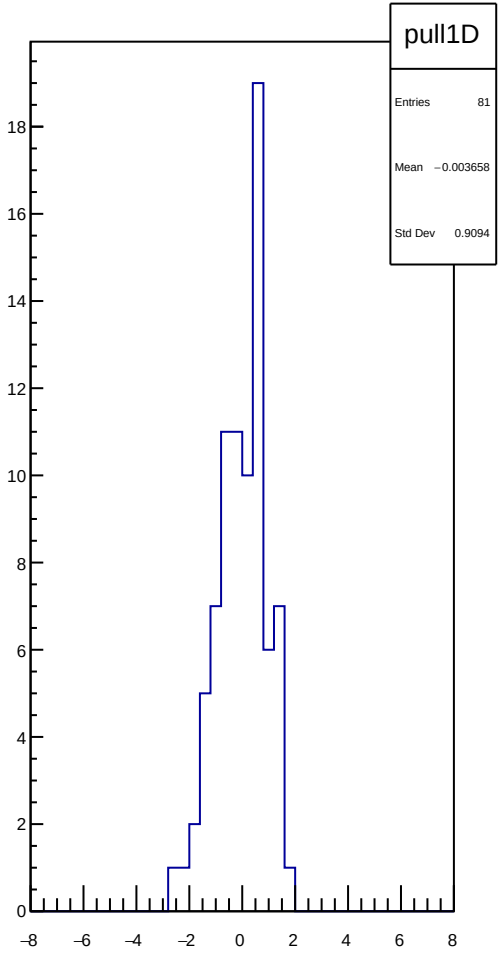

asym_bpm0i07WS_rms vs run
χ² / ndf 1.593e+04 / 80
p0 234.6 ± 0.1893
550
500
450
400
350
300
250
200

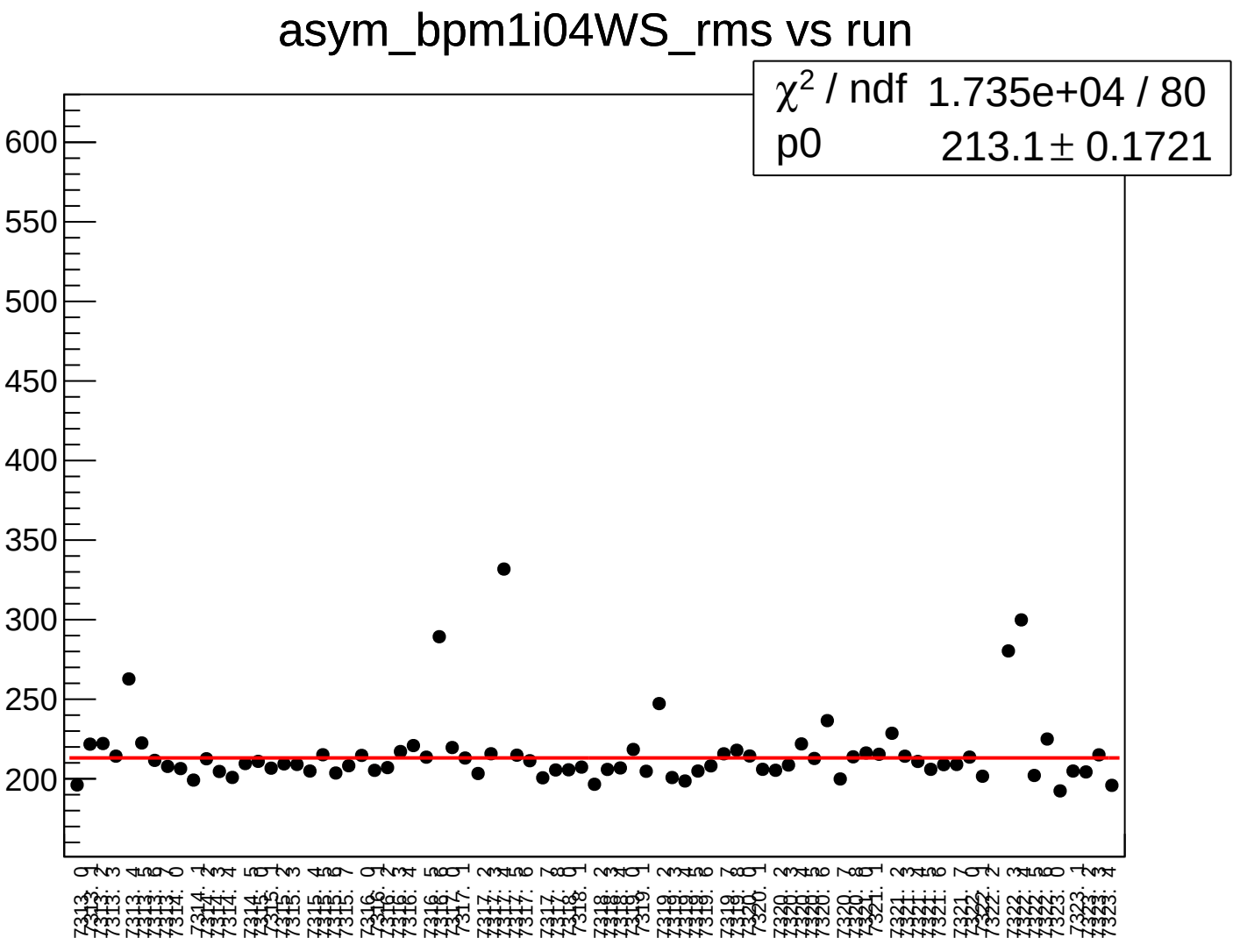

asym_bpm1i02WS_mean vs run
χ² / ndf 70.55 / 80
p0 1.237e+04 ± 252.8
pull
Entries 81
Mean −370.6
Std Dev 399.1

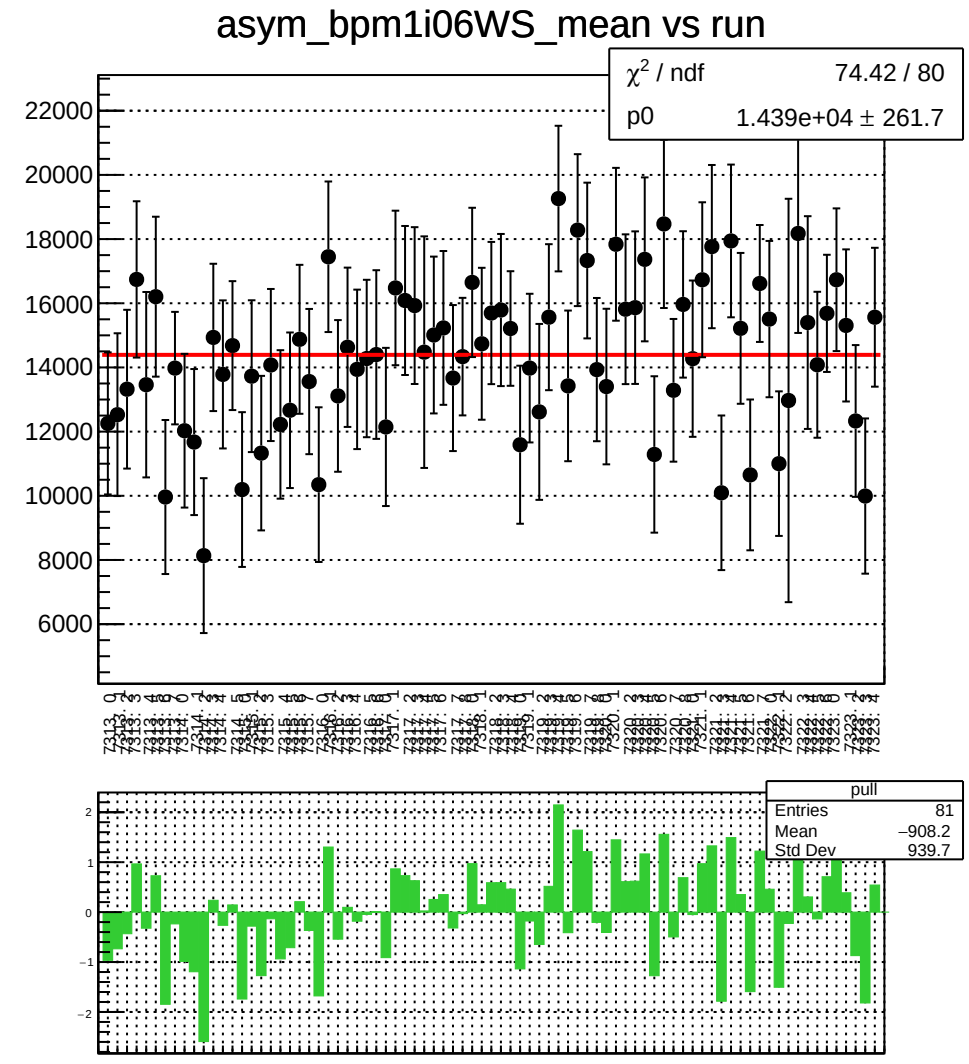

pull1D
Entries 81
Mean −0.01306
Std Dev 0.9332

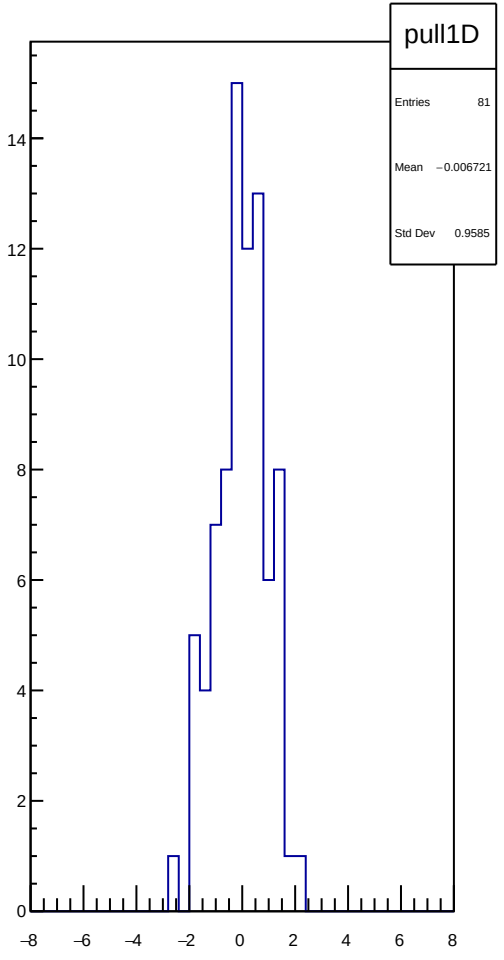

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.617e+04 / 80
p0 221.5 ± 0.1788
600
550
500
450
400
350
300
250
200

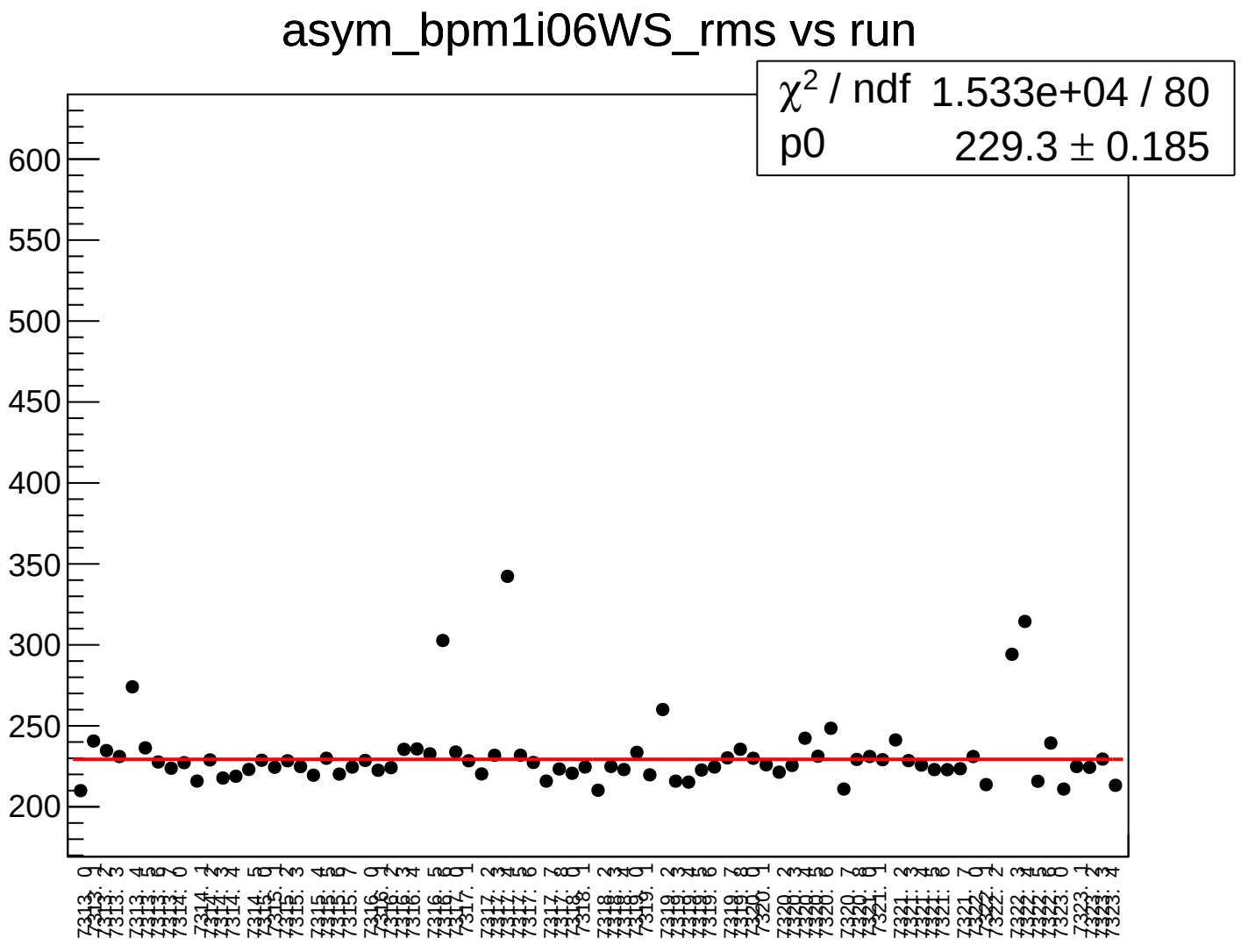

asym_bpm1i04WS_mean vs run
χ² / ndf 66.98 / 80
p0 1.226e+04 ± 243.4
pull
Entries 81
Mean −1687
Std Dev 1719

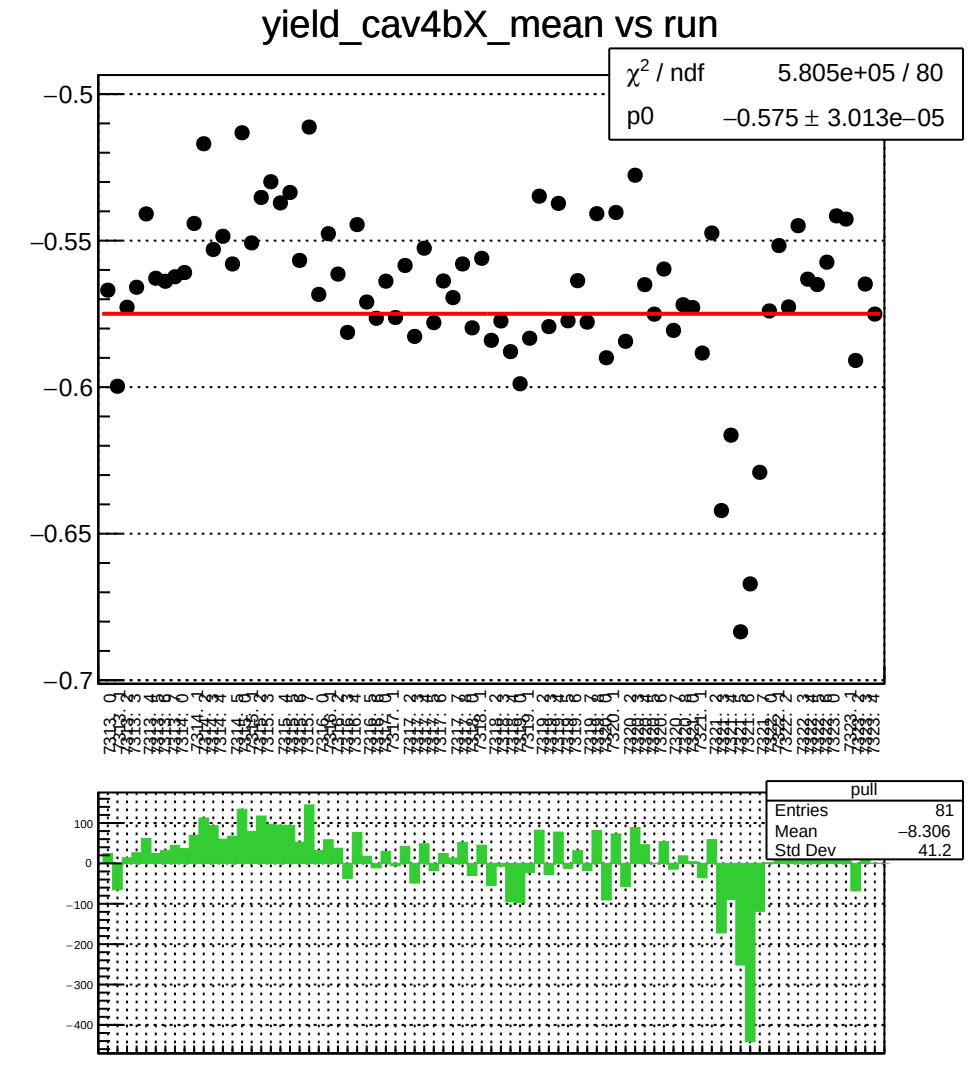

pull1D
Entries 81
Mean −0.003658
Std Dev 0.9094

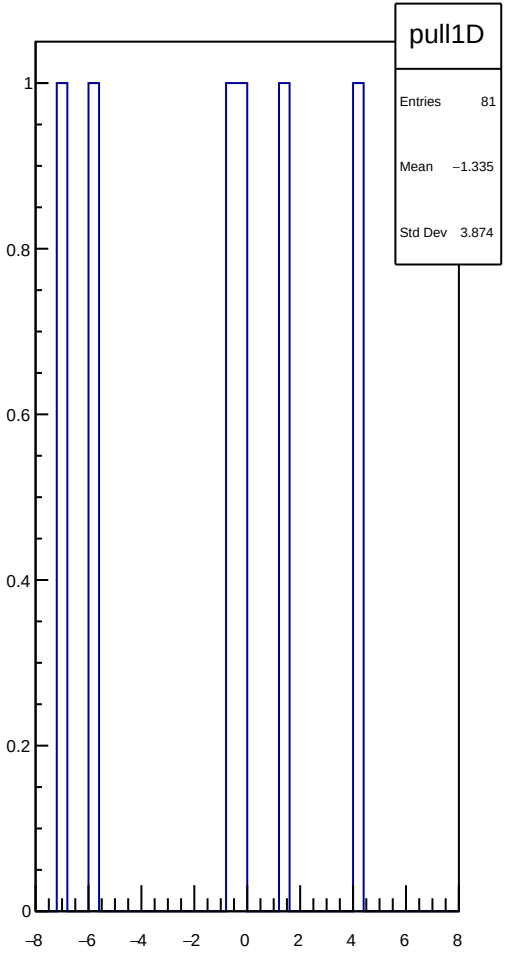

asym_bpm1i04WS_rms vs run
χ^2 / ndf 1.735e+04 / 80
p0 213.1 ± 0.1721
600
550
500
450
400
350
300
250
200

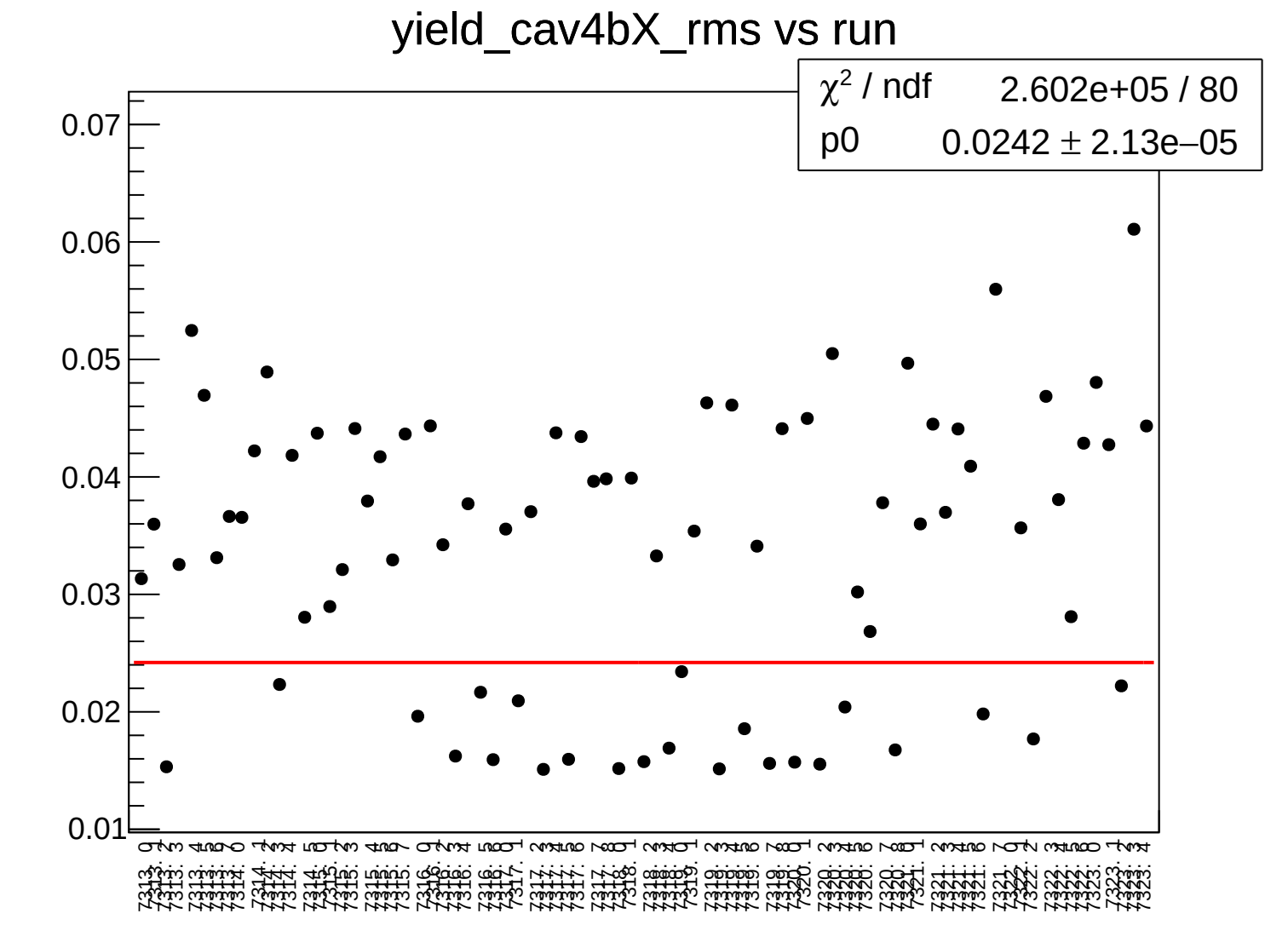

asym_bpm1i06WS_mean vs run
χ² / ndf 74.42 / 80
p0 1.439e+04 ± 261.7
pull
Entries 81
Mean −908.2
Std Dev 939.7

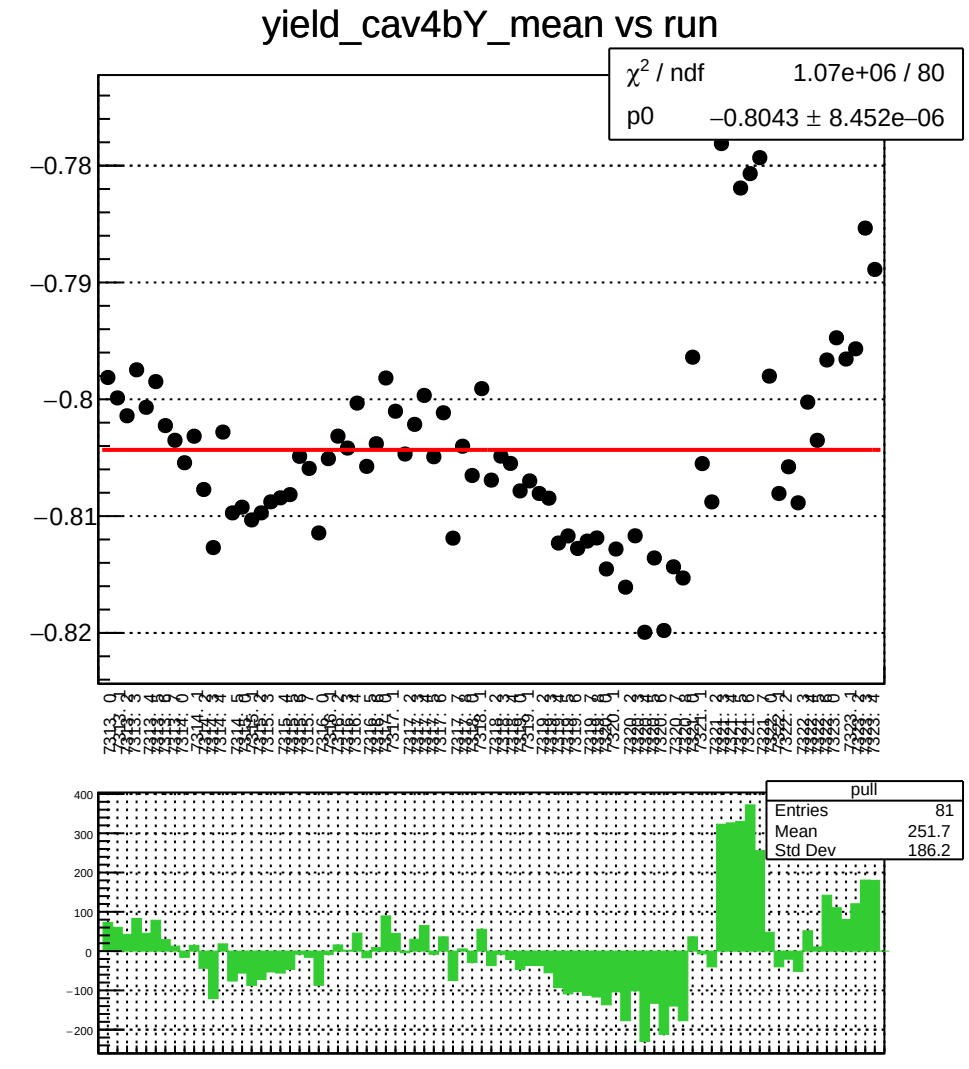

pull1D
Entries 81
Mean −0.006721
Std Dev 0.9585

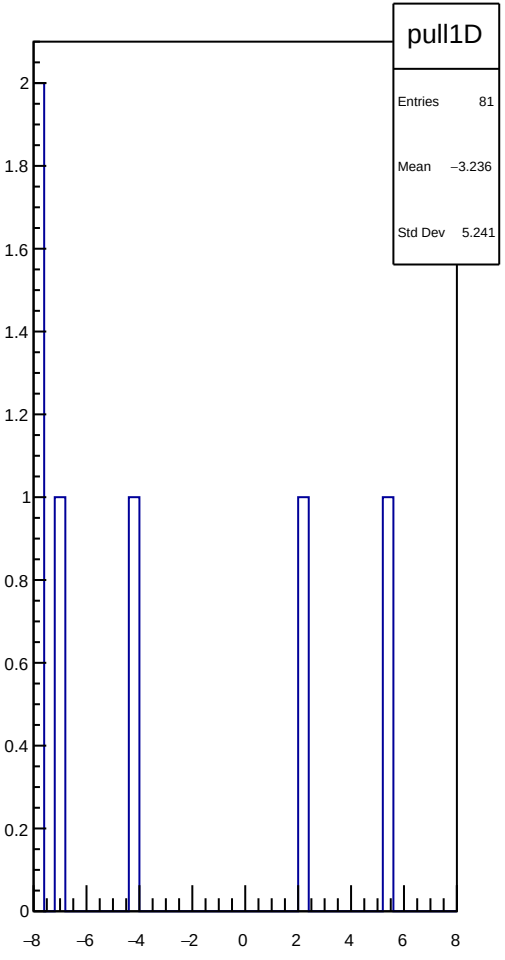

asym_bpm1i06WS_rms vs run
χ^2 / ndf 1.533e+04 / 80
p0 229.3 ± 0.185
600
550
500
450
400
350
300
250
200

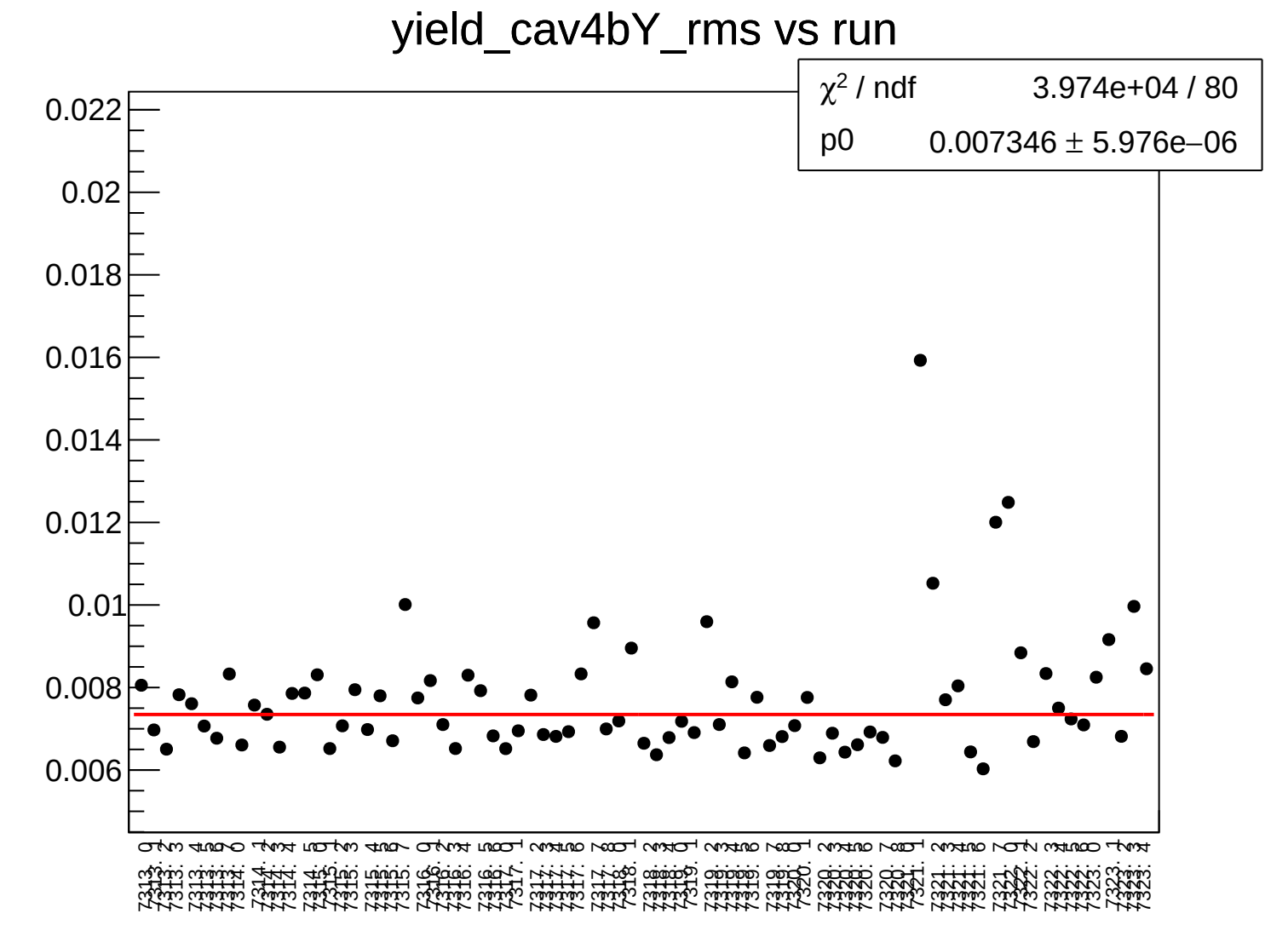

yield_cav4bX_mean vs run
χ² / ndf 5.805e+05 / 80
p0 −0.575 ± 3.013e−05
pull
Entries 81
Mean −8.306
Std Dev 41.2

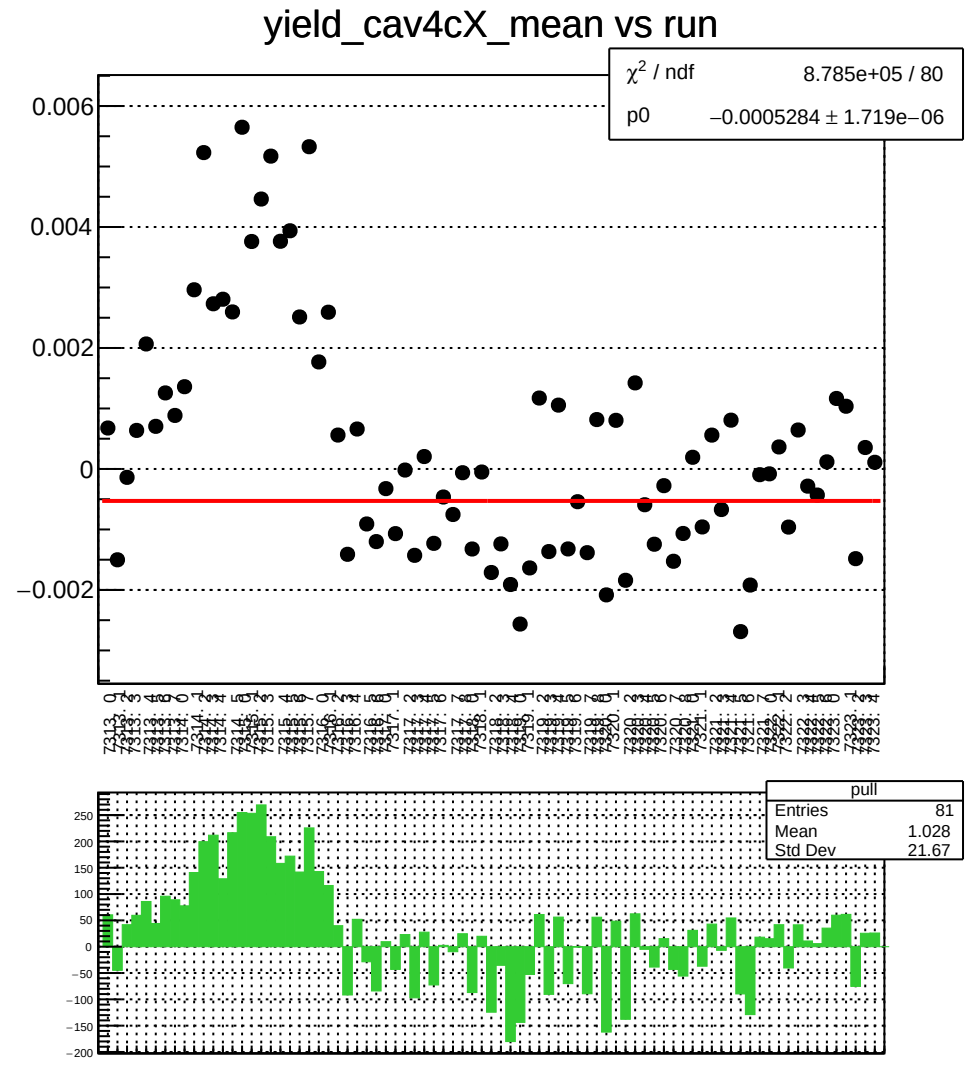

pull1D
Entries 81
Mean −1.335
Std Dev 3.874

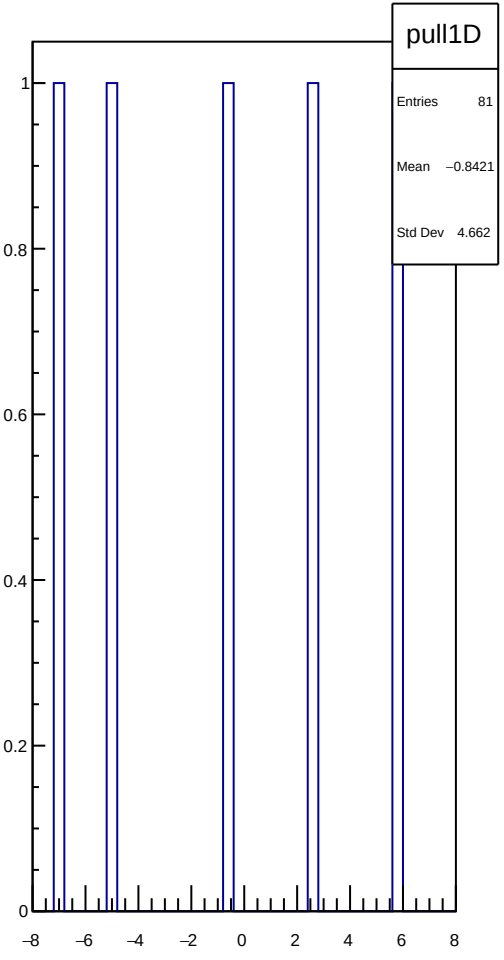

yield_cav4bX_rms vs run
χ² / ndf 2.602e+05 / 80
p0 0.0242 ± 2.13e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

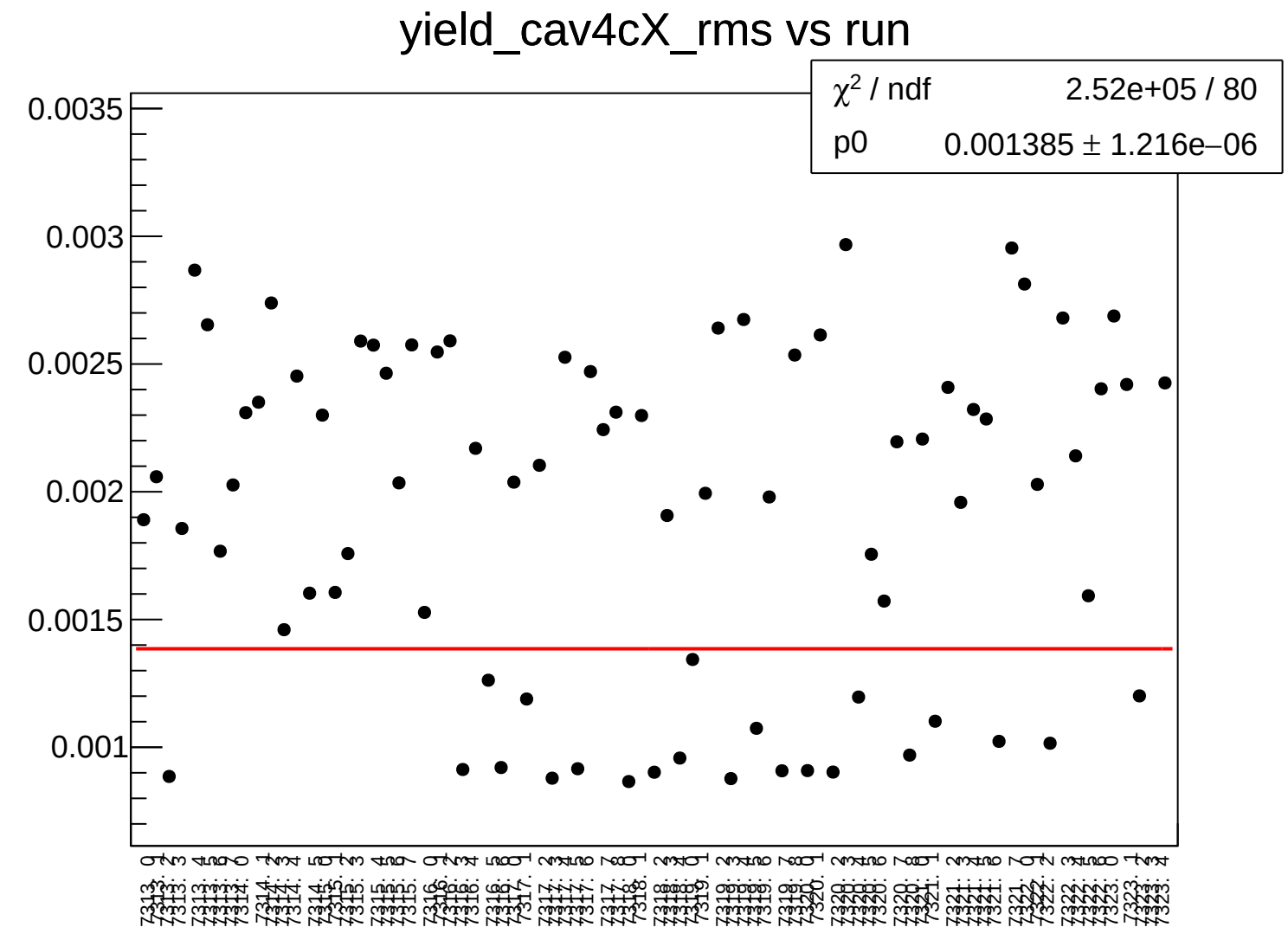

yield_cav4bY_mean vs run
χ² / ndf 1.07e+06 / 80
p0 −0.8043 ± 8.452e−06
−0.78
−0.79
−0.8
−0.81
−0.82
pull
Entries 81
Mean 251.7
Std Dev 186.2
400
300
200
100
0
−100
−200

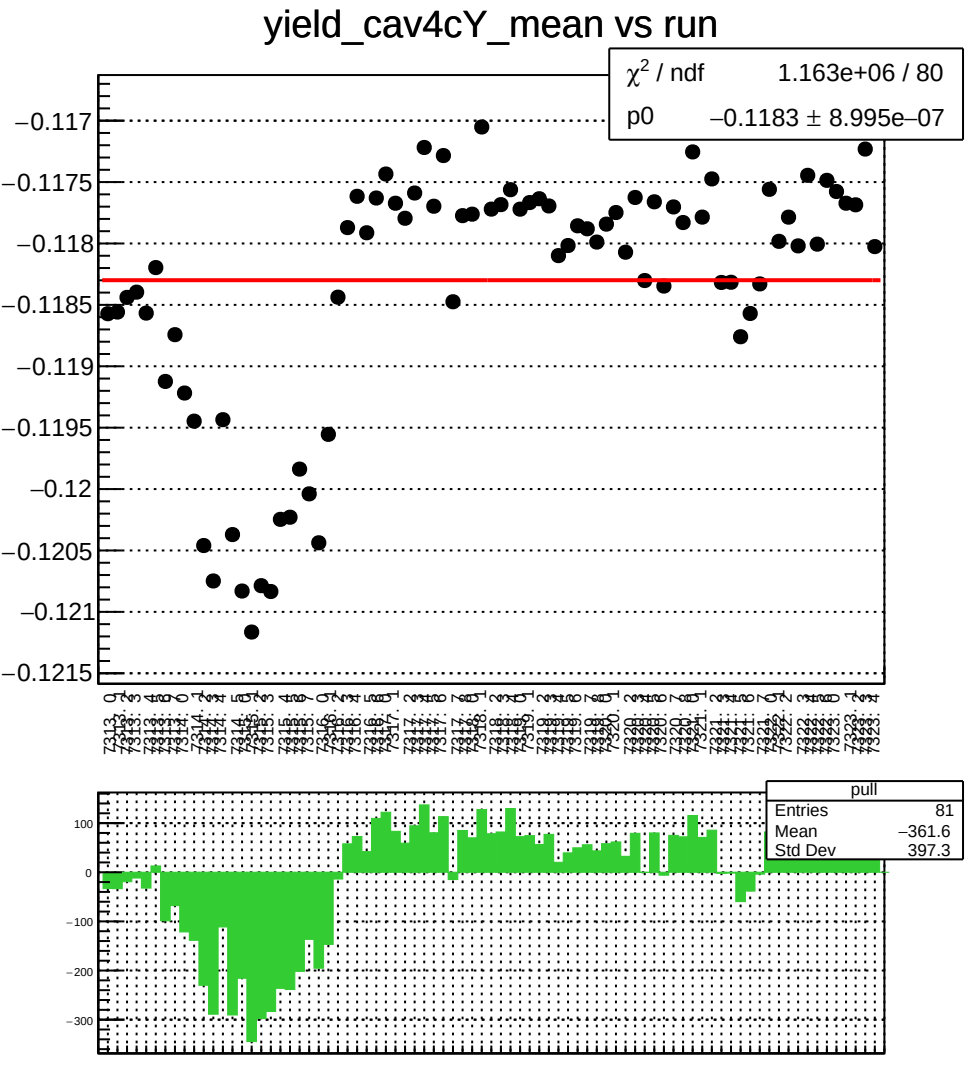

pull1D
Entries 81
Mean −3.236
Std Dev 5.241
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

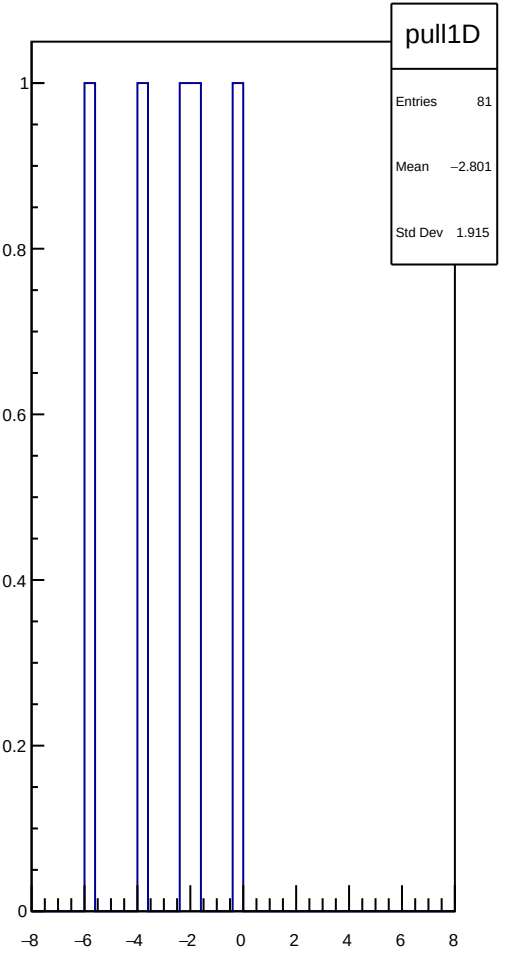

yield_cav4bY_rms vs run
χ² / ndf 3.974e+04 / 80
p0 0.007346 ± 5.976e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

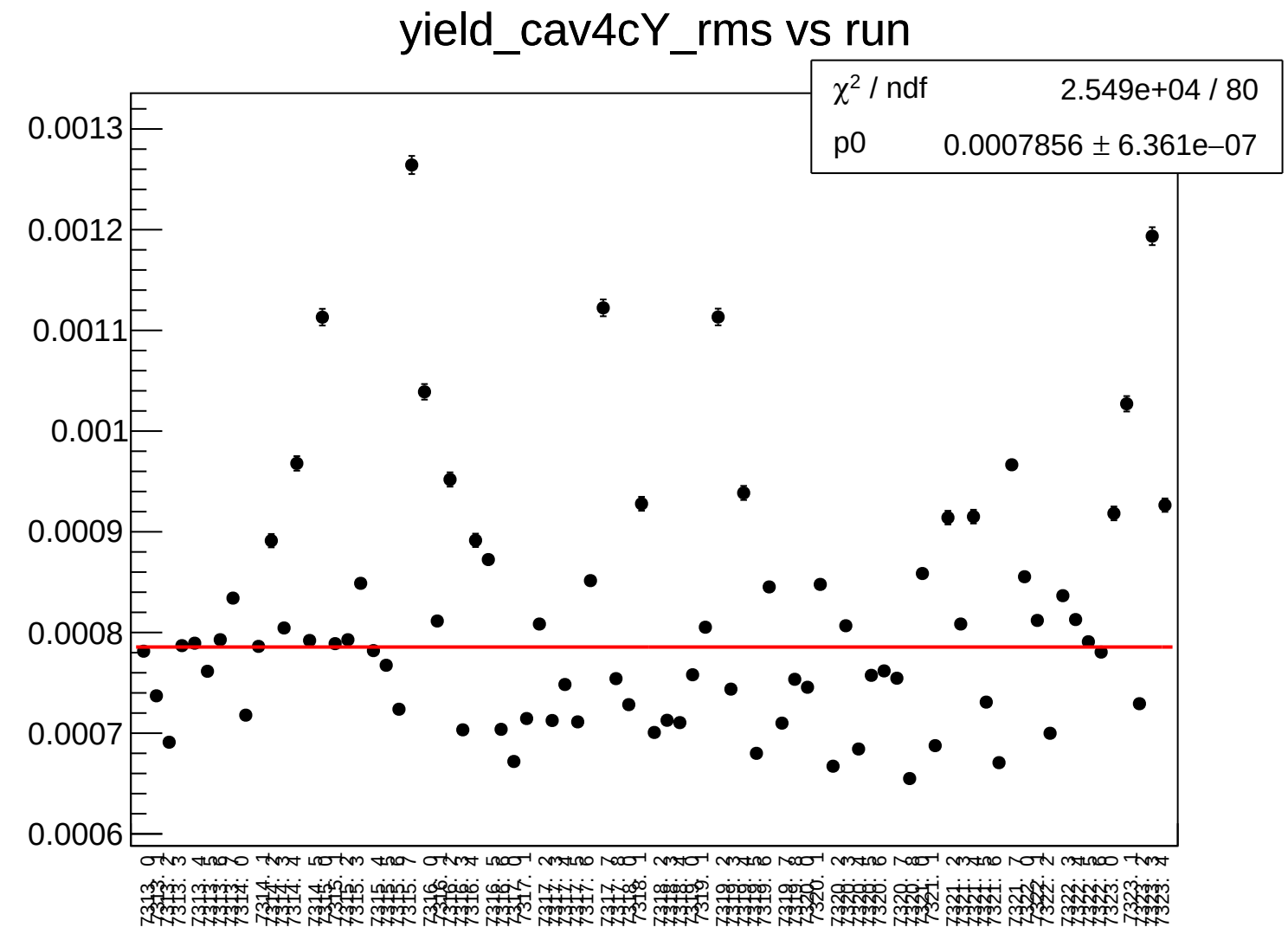

yield_cav4cX_mean vs run
χ² / ndf 8.785e+05 / 80
p0 −0.0005284 ± 1.719e−06
0.006
0.004
0.002
0
−0.002
pull
Entries 81
Mean 1.028
Std Dev 21.67
250
200
150
100
50
0
−50
−100
−150
−200

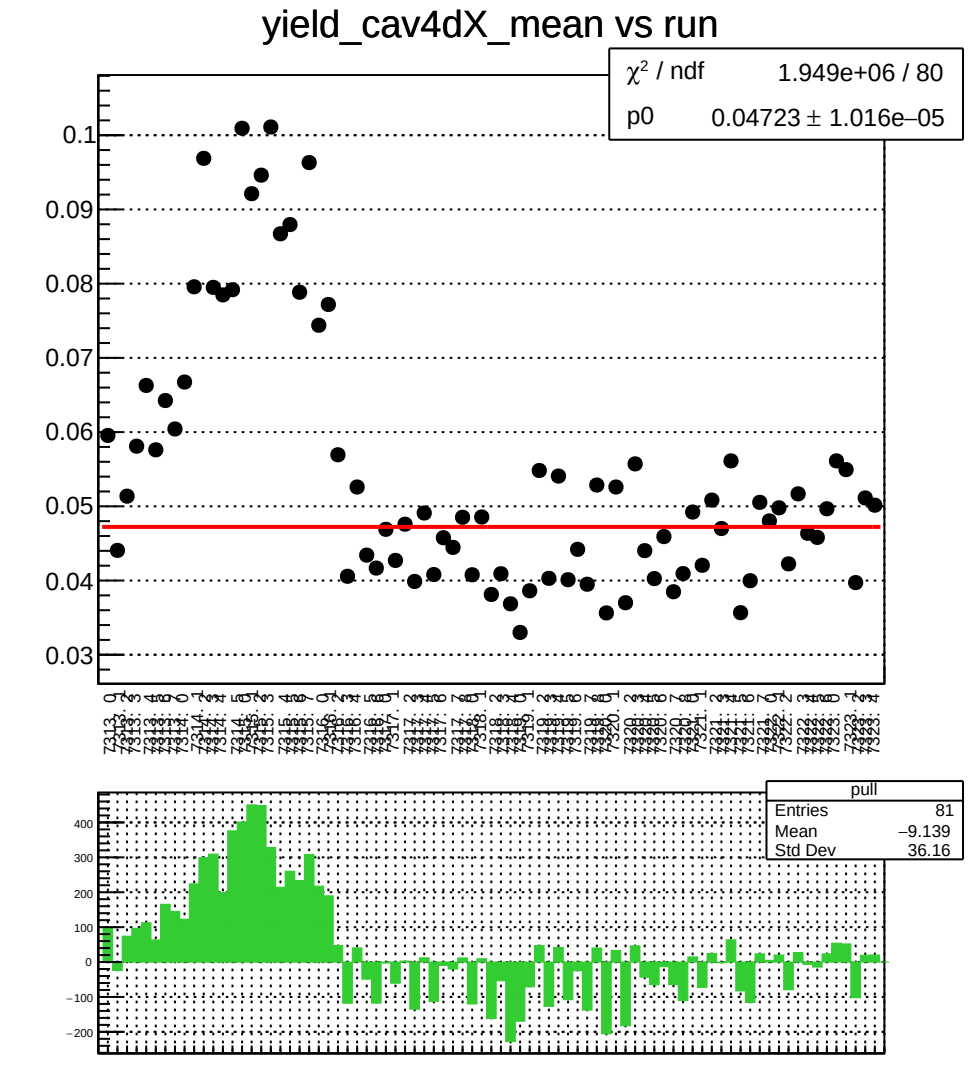

pull1D
Entries 81
Mean −0.8421
Std Dev 4.662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

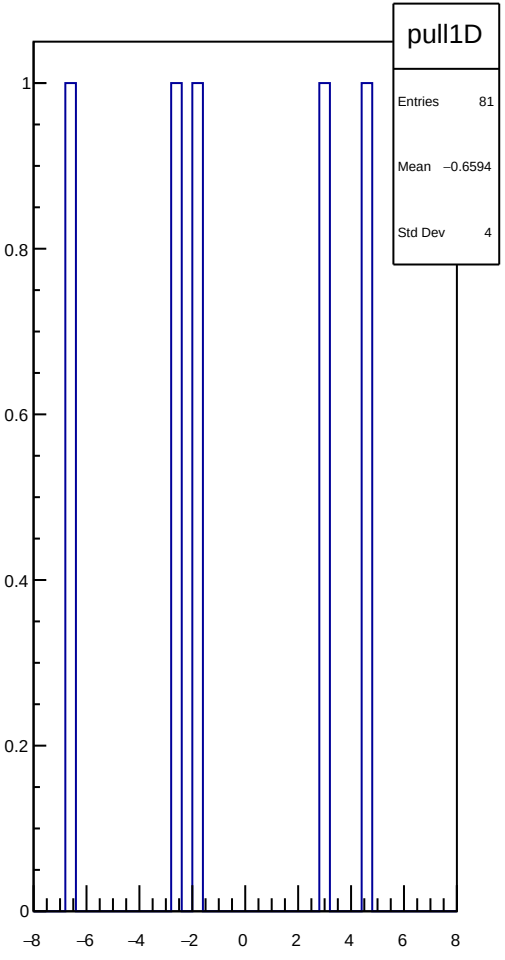

yield_cav4cX_rms vs run
χ² / ndf 2.52e+05 / 80
p0 0.001385 ± 1.216e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

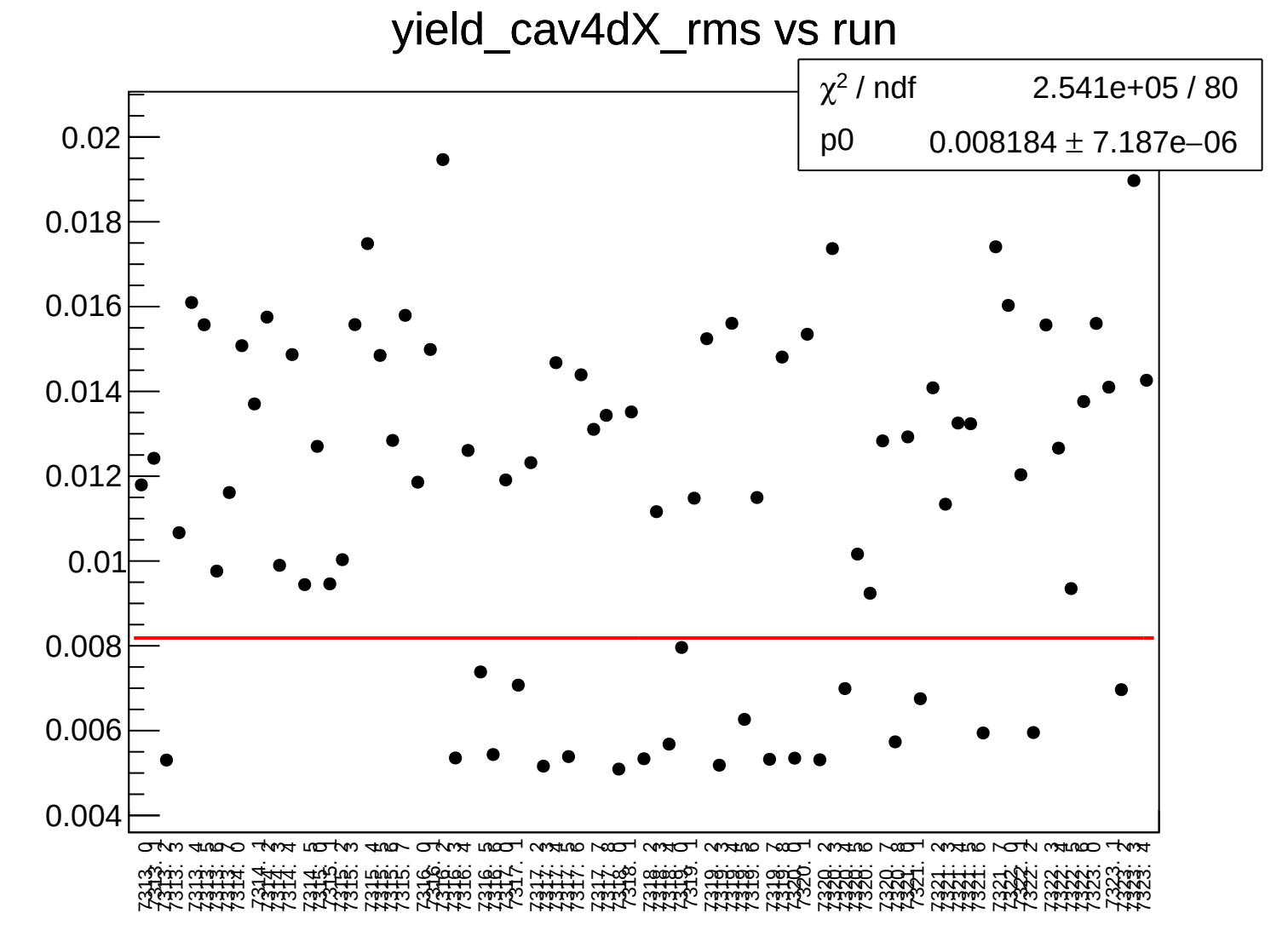

yield_cav4cY_mean vs run
χ² / ndf 1.163e+06 / 80
p0 −0.1183 ± 8.995e−07
pull
Entries 81
Mean −361.6
Std Dev 397.3

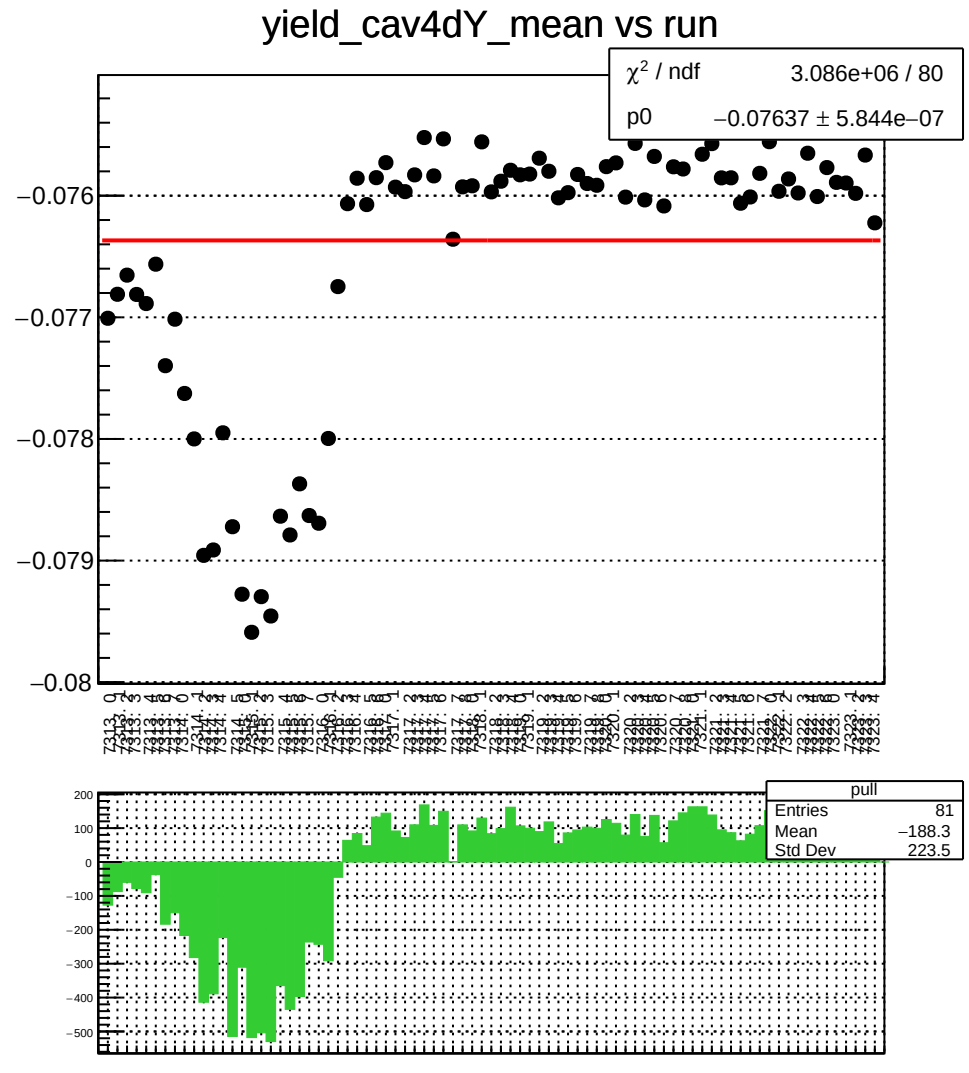

pull1D
Entries 81
Mean −2.801
Std Dev 1.915

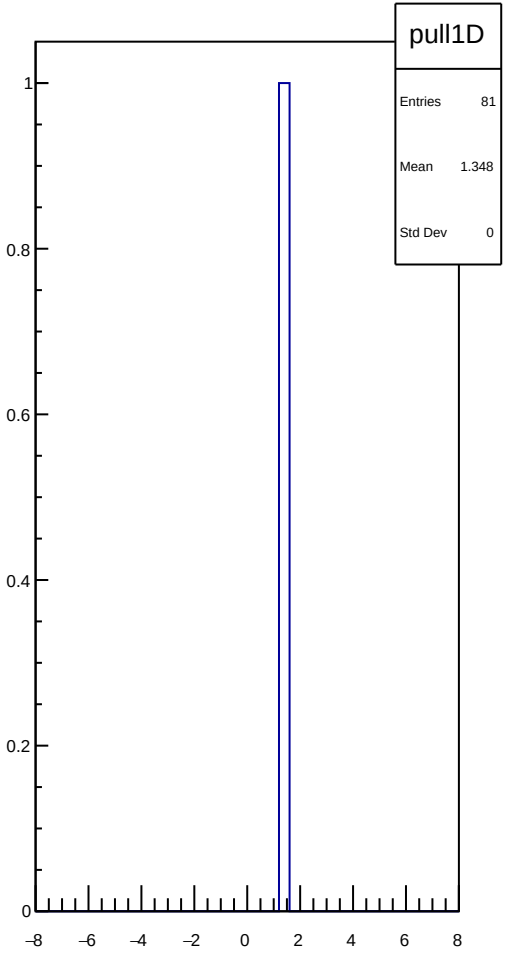

yield_cav4cY_rms vs run
χ² / ndf 2.549e+04 / 80
p0 0.0007856 ± 6.361e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

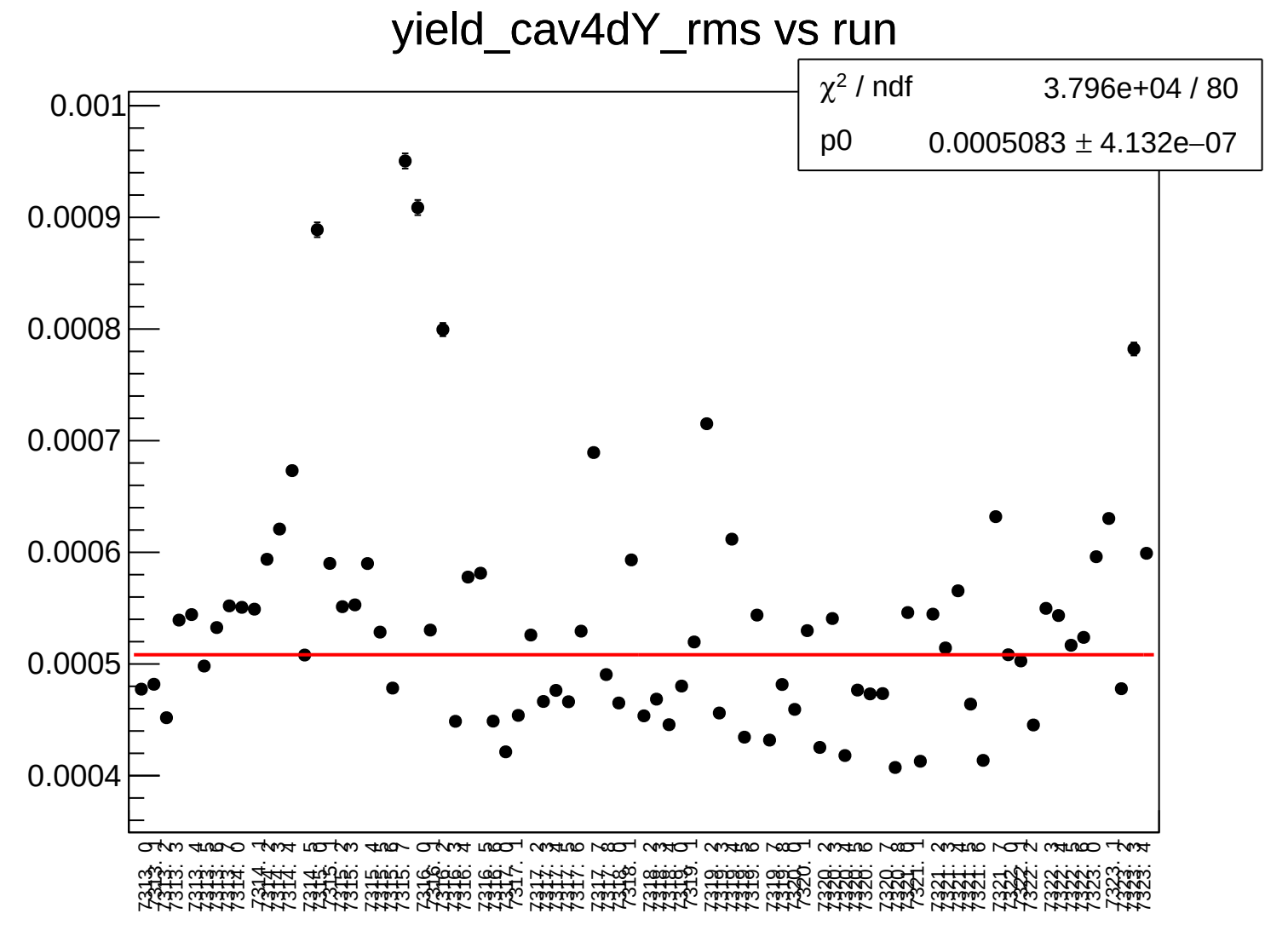

yield_cav4dX_mean vs run
χ² / ndf 1.949e+06 / 80
p0 0.04723 ± 1.016e−05
pull
Entries 81
Mean −9.139
Std Dev 36.16

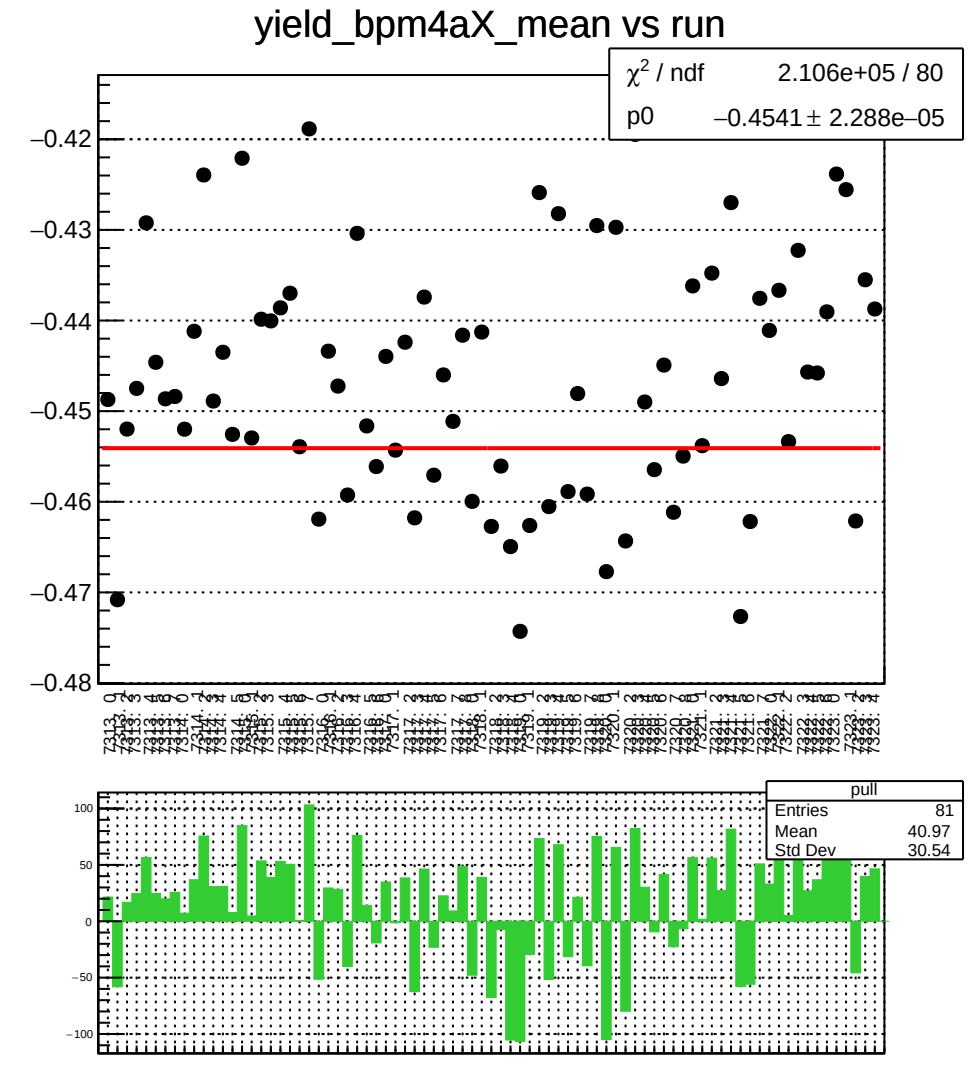

pull1D
Entries 81
Mean −0.6594
Std Dev 4

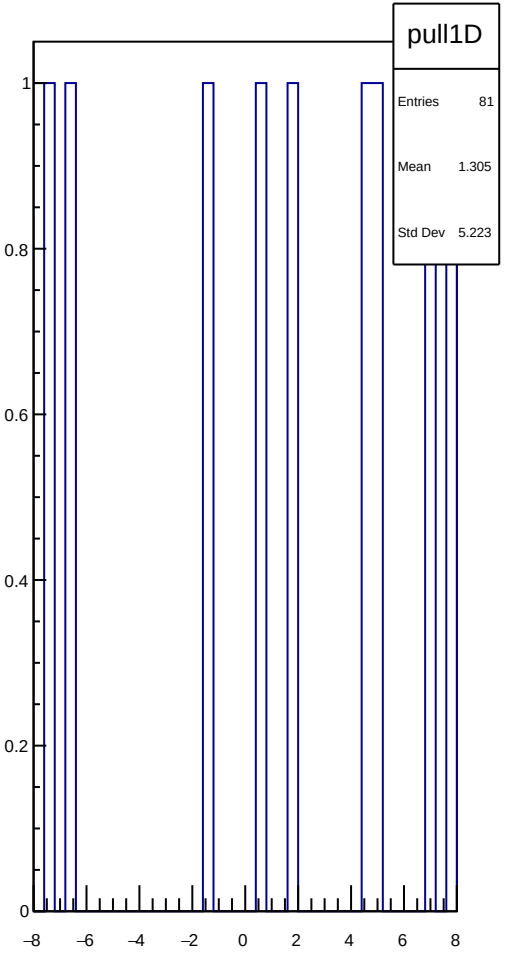

yield_cav4dX_rms vs run
χ² / ndf 2.541e+05 / 80
p0 0.008184 ± 7.187e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

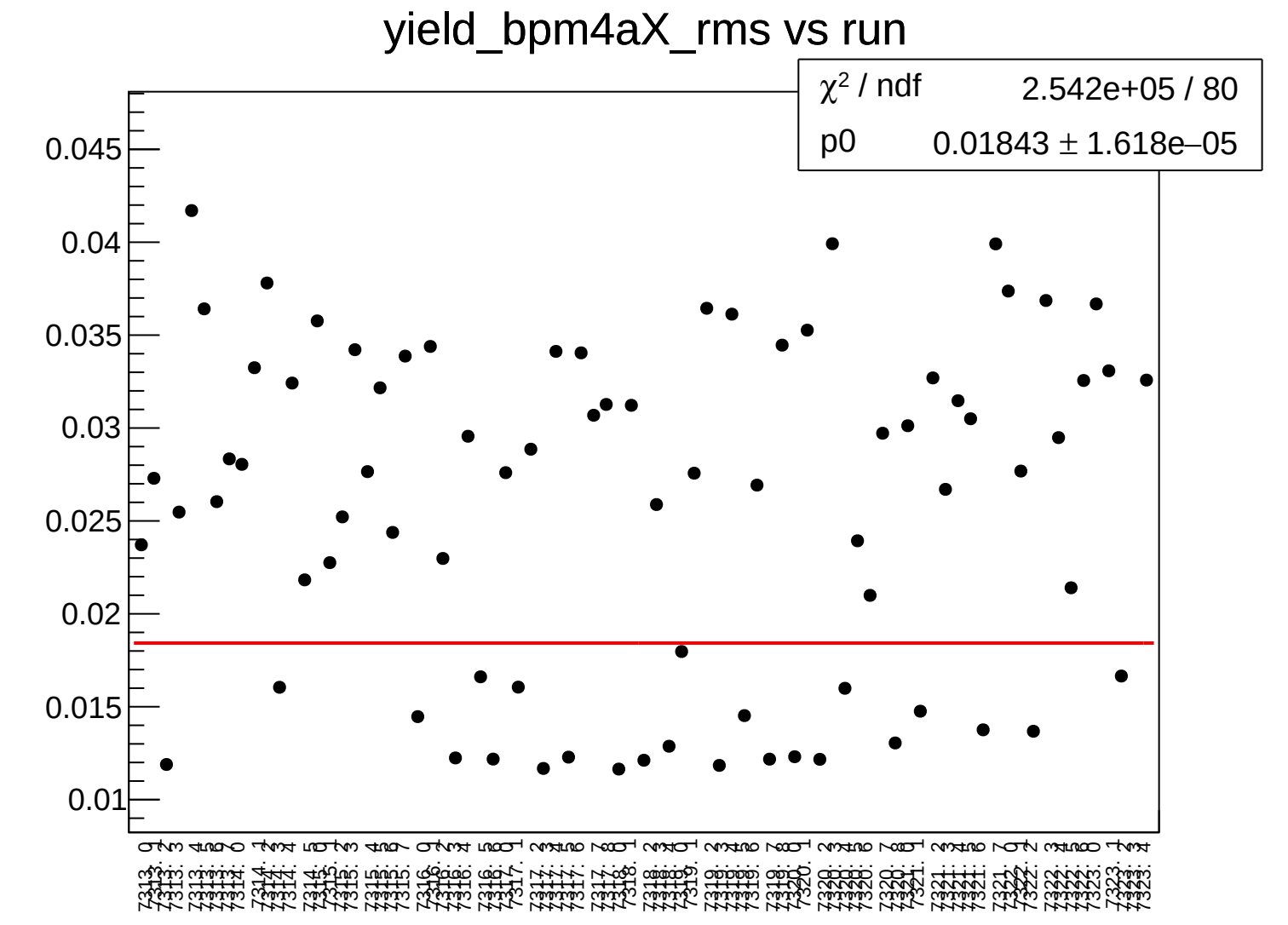

yield_cav4dY_mean vs run
χ² / ndf 3.086e+06 / 80
p0 −0.07637 ± 5.844e−07
−0.076
−0.077
−0.078
−0.079
−0.08
pull
Entries 81
Mean −188.3
Std Dev 223.5
200
100
0
−100
−200
−300
−400
−500

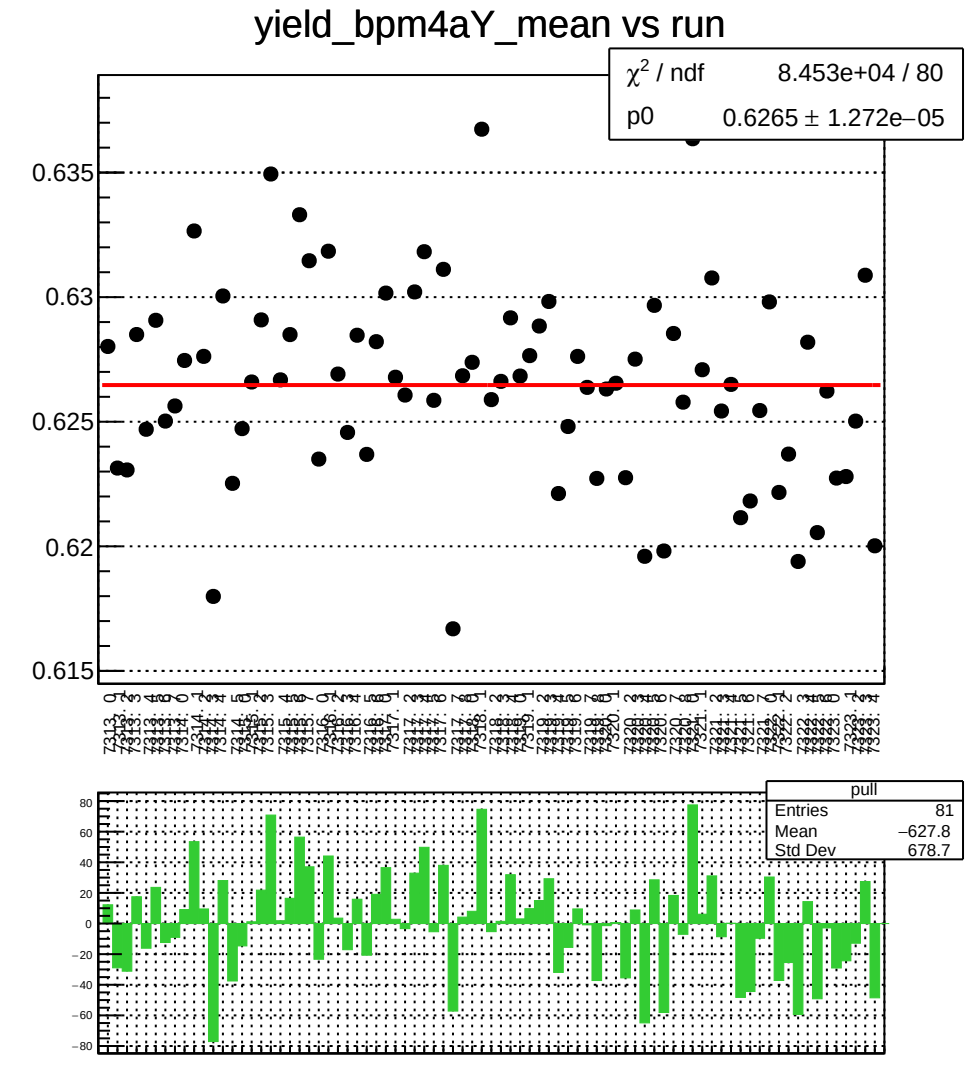

pull1D
Entries 81
Mean 1.348
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

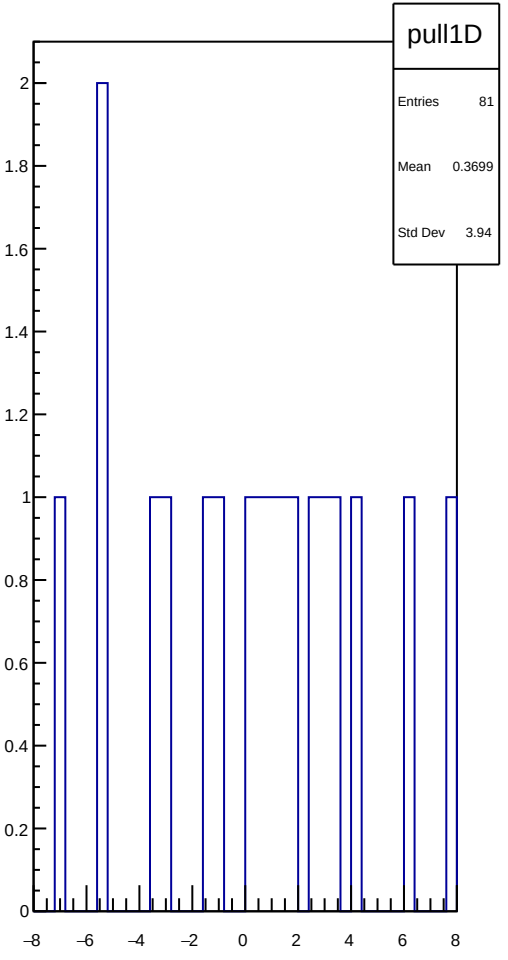

yield_cav4dY_rms vs run
χ² / ndf 3.796e+04 / 80
p0 0.0005083 ± 4.132e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

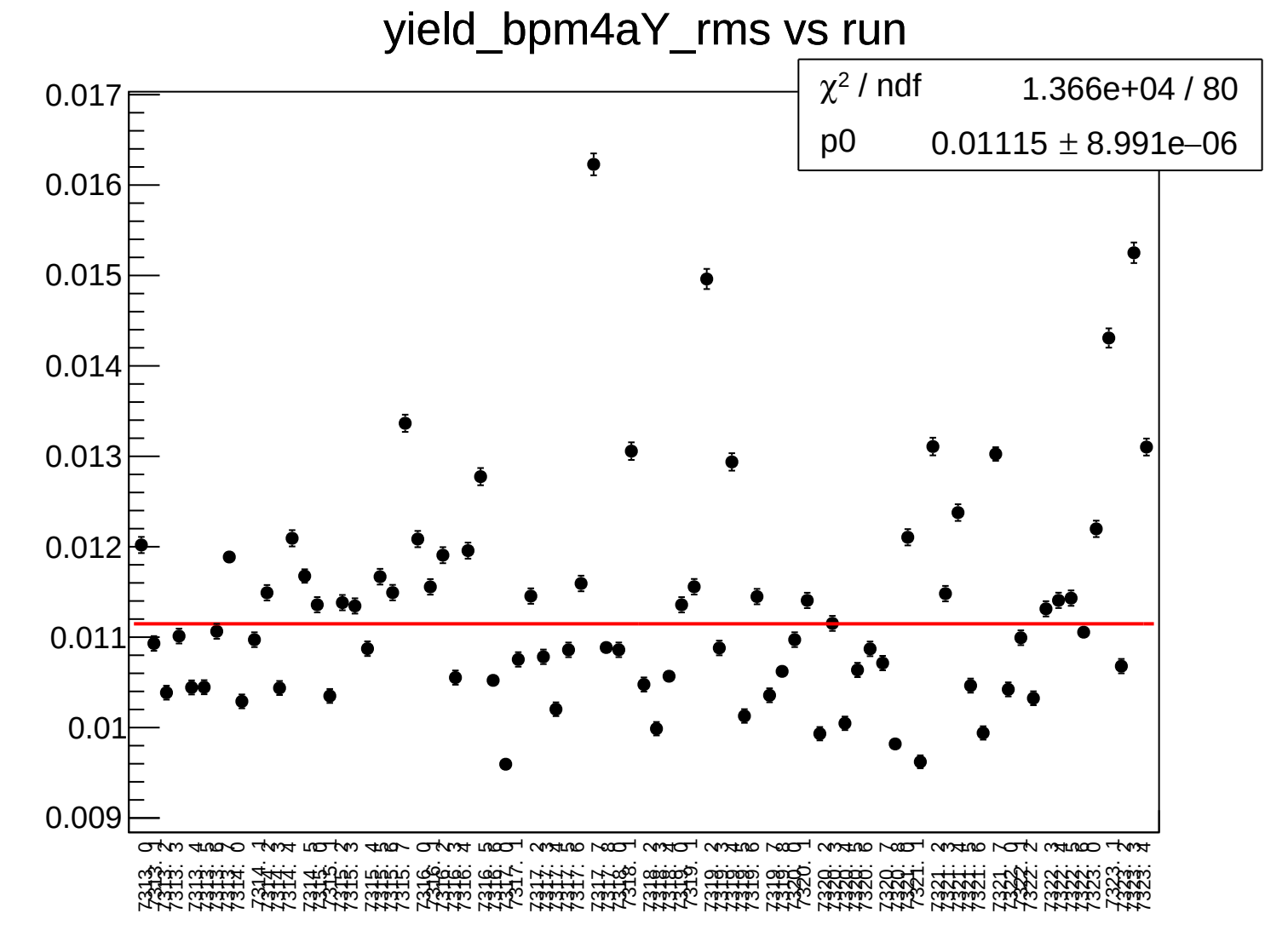

yield_bpm4aX_mean vs run
χ² / ndf 2.106e+05 / 80
p0 −0.4541 ± 2.288e−05
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
pull
Entries 81
Mean 40.97
Std Dev 30.54
100
50
0
−50
−100

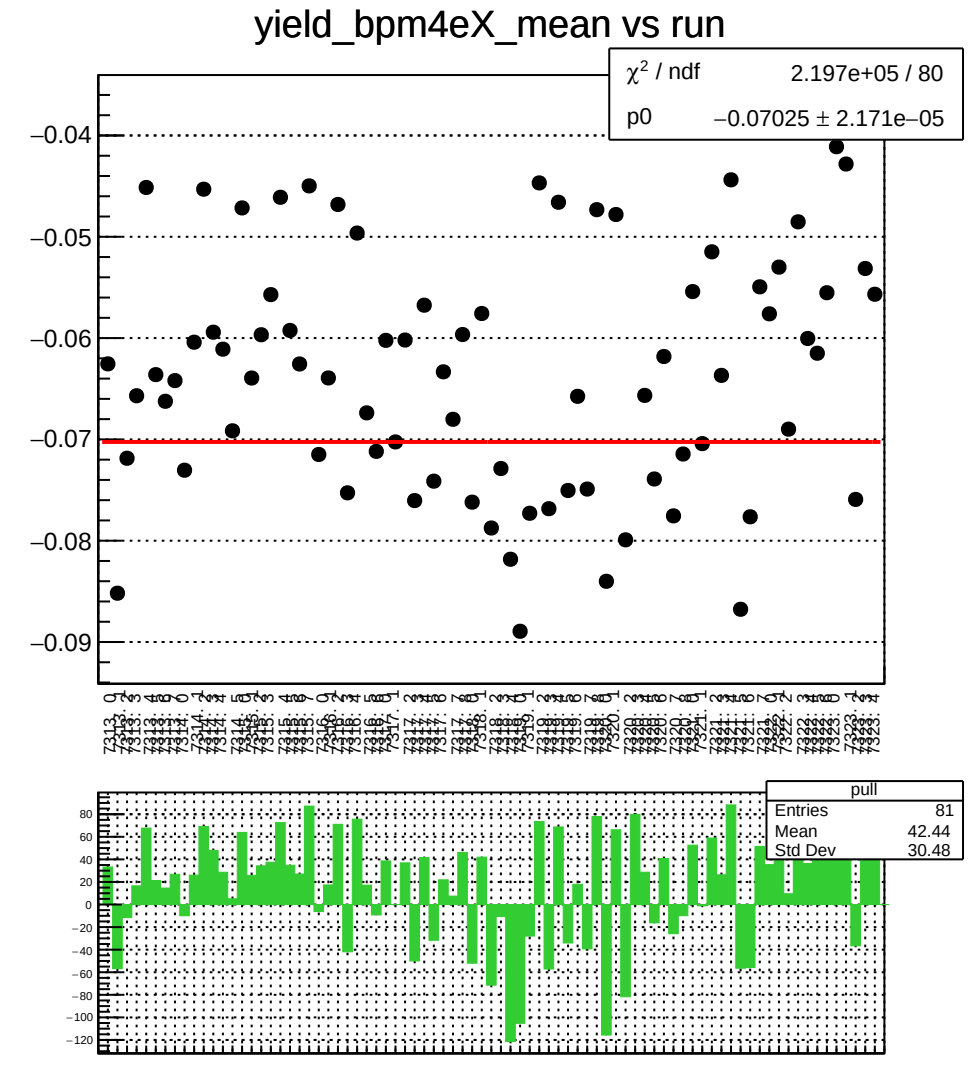

pull1D
Entries 81
Mean 1.305
Std Dev 5.223
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

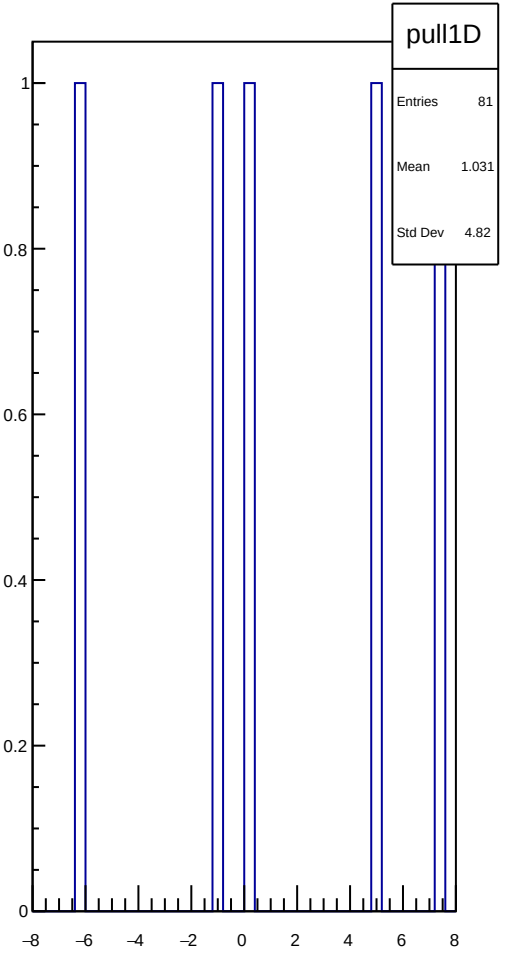

yield_bpm4aX_rms vs run
χ² / ndf 2.542e+05 / 80
p0 0.01843 ± 1.618e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

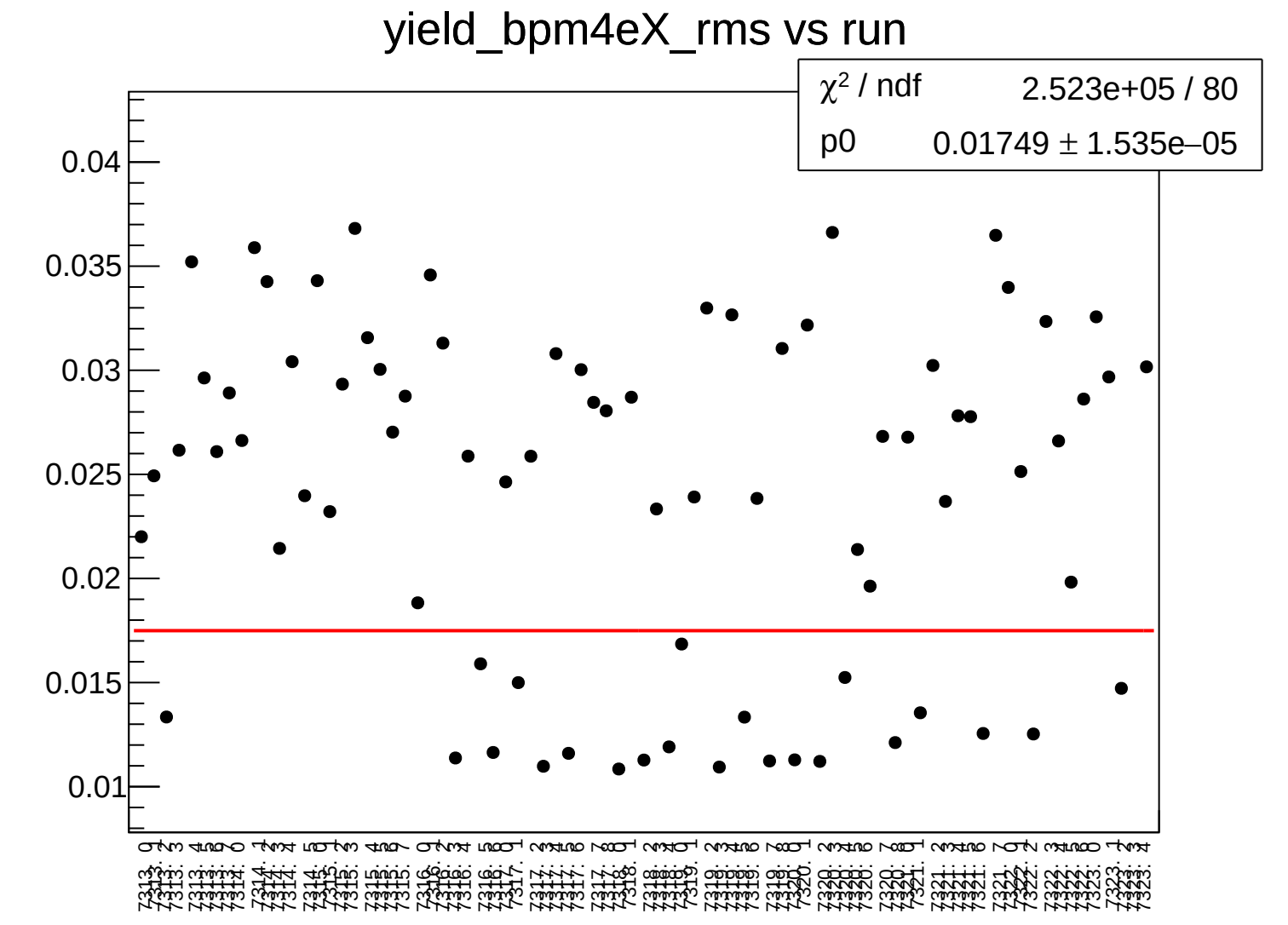

yield_bpm4aY_mean vs run
χ² / ndf 8.453e+04 / 80
p0 0.6265 ± 1.272e−05
0.635
0.63
0.625
0.62
0.615
pull
Entries 81
Mean −627.8
Std Dev 678.7
80
60
40
20
0
−20
−40
−60
−80

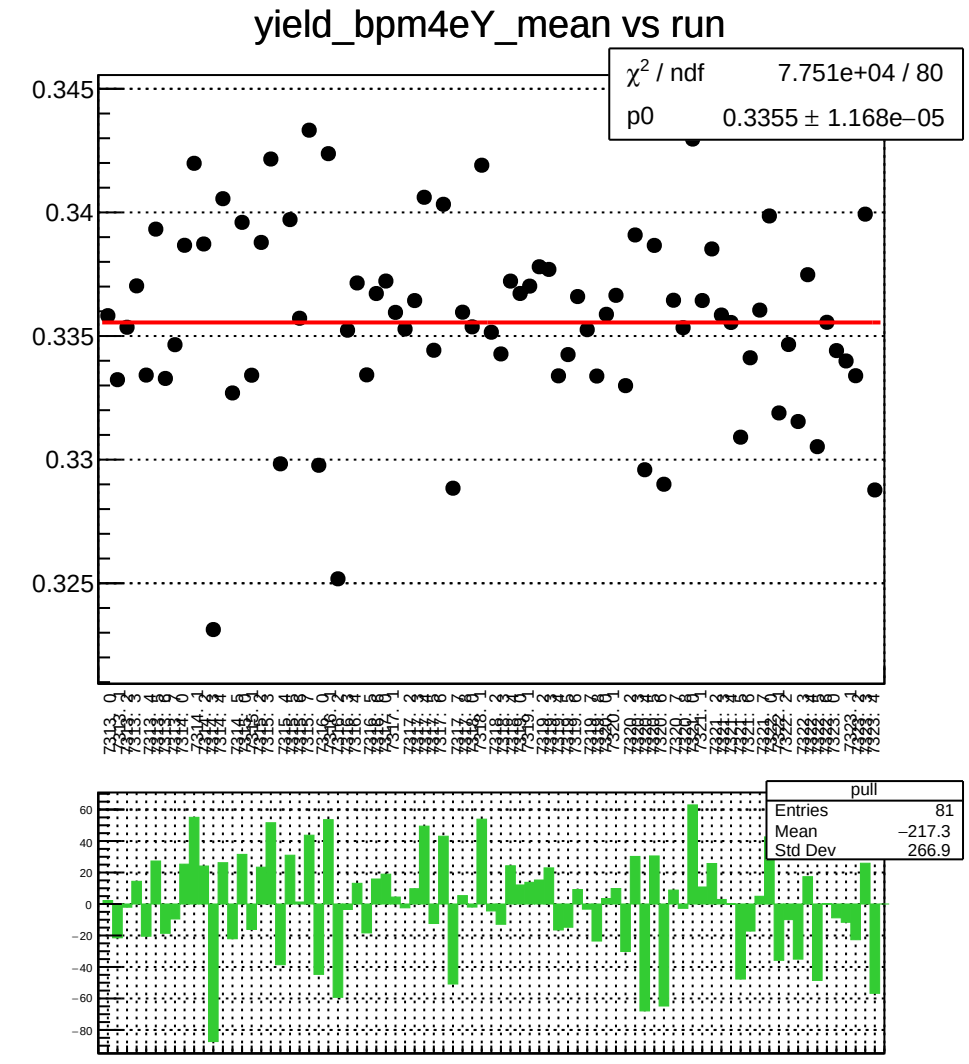

pull1D
Entries 81
Mean 0.3699
Std Dev 3.94
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

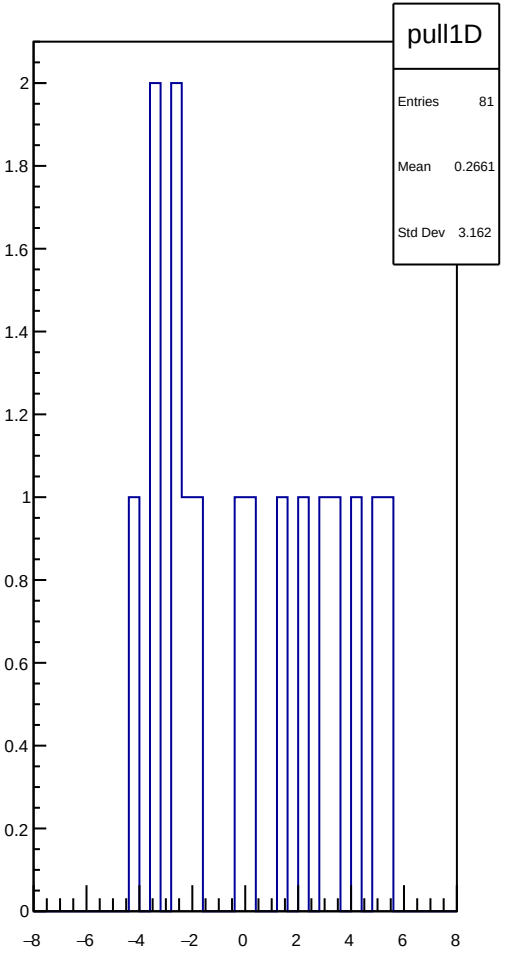

yield_bpm4aY_rms vs run
χ² / ndf 1.366e+04 / 80
p0 0.01115 ± 8.991e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

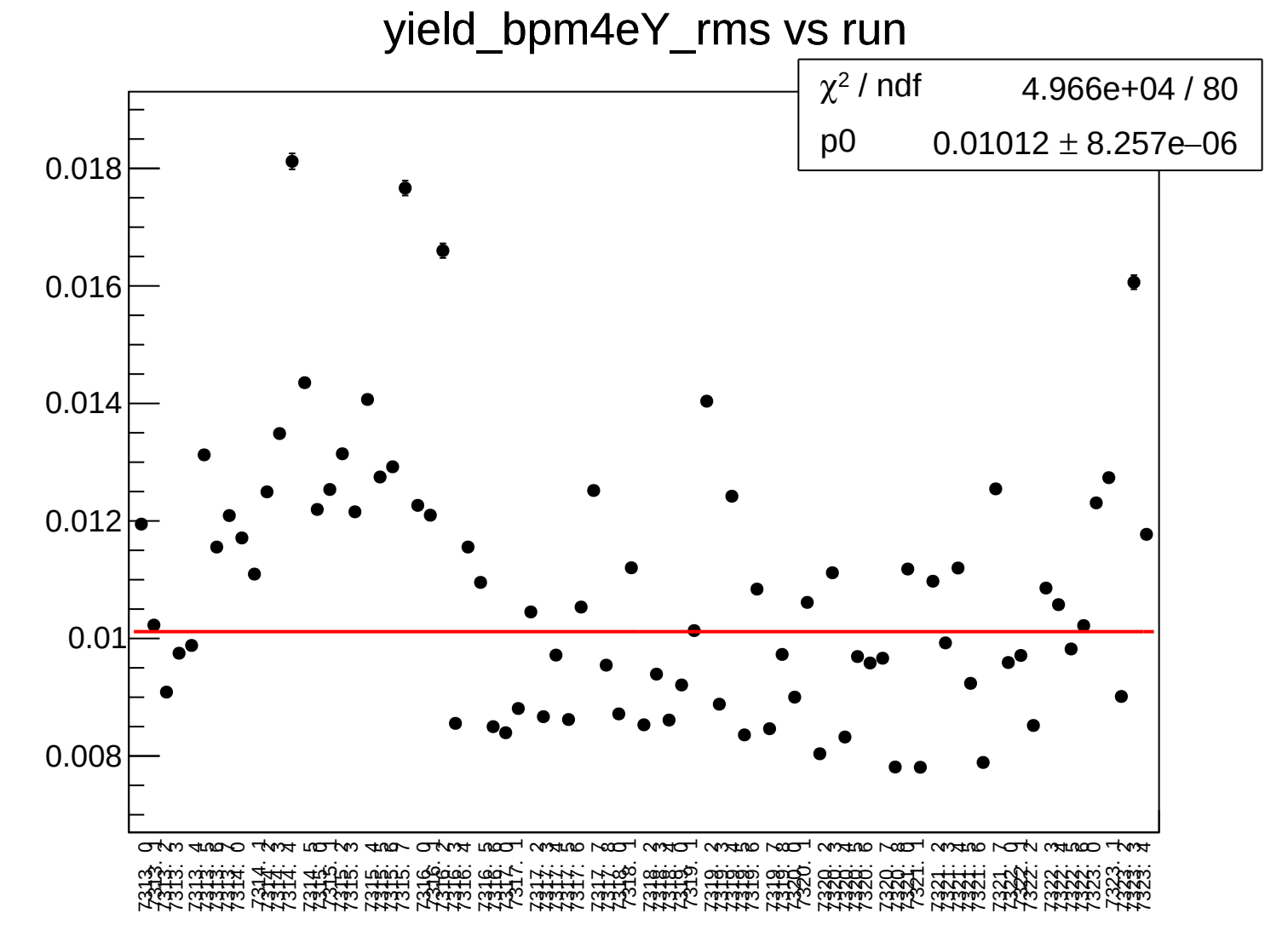

yield_bpm4eX_mean vs run
χ² / ndf 2.197e+05 / 80
p0 −0.07025 ± 2.171e−05
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
pull
Entries 81
Mean 42.44
Std Dev 30.48
80
60
40
20
0
−20
−40
−60
−80
−100
−120

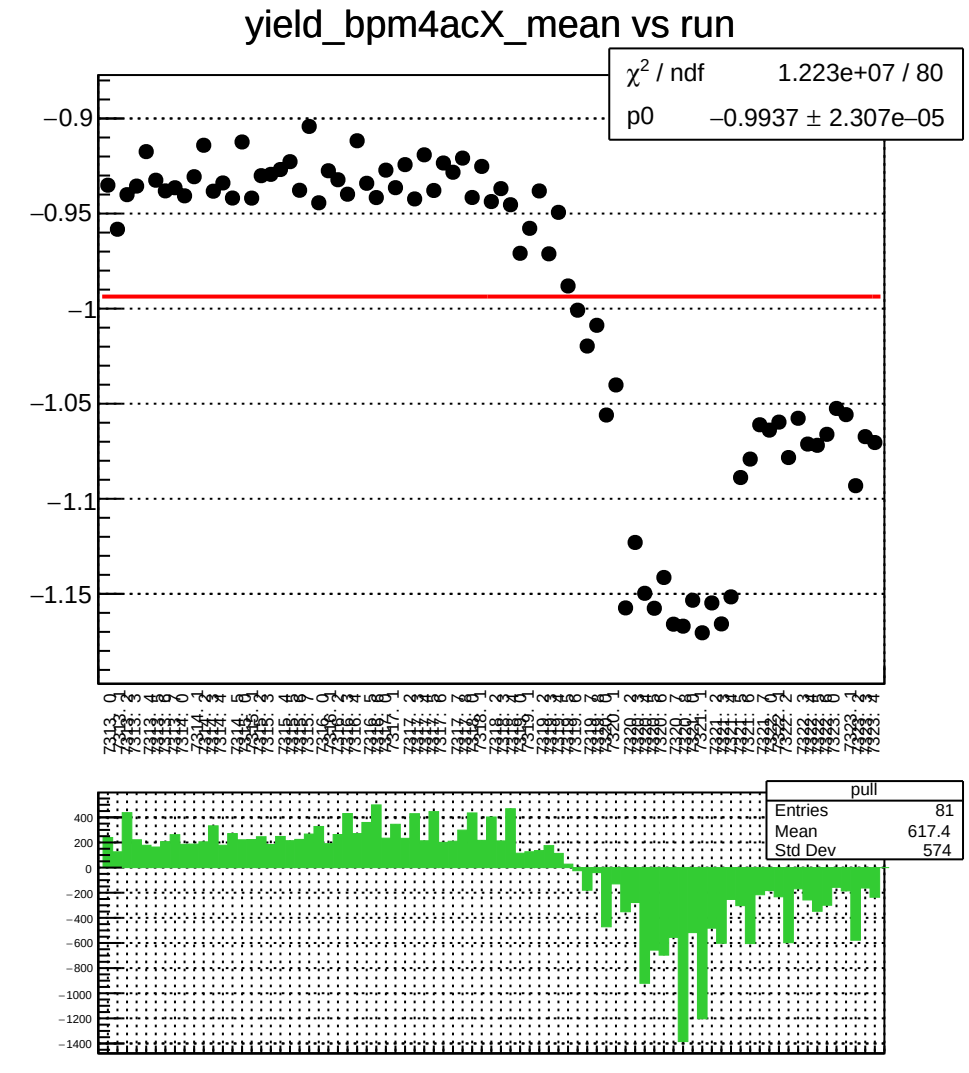

pull1D
Entries 81
Mean 1.031
Std Dev 4.82
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

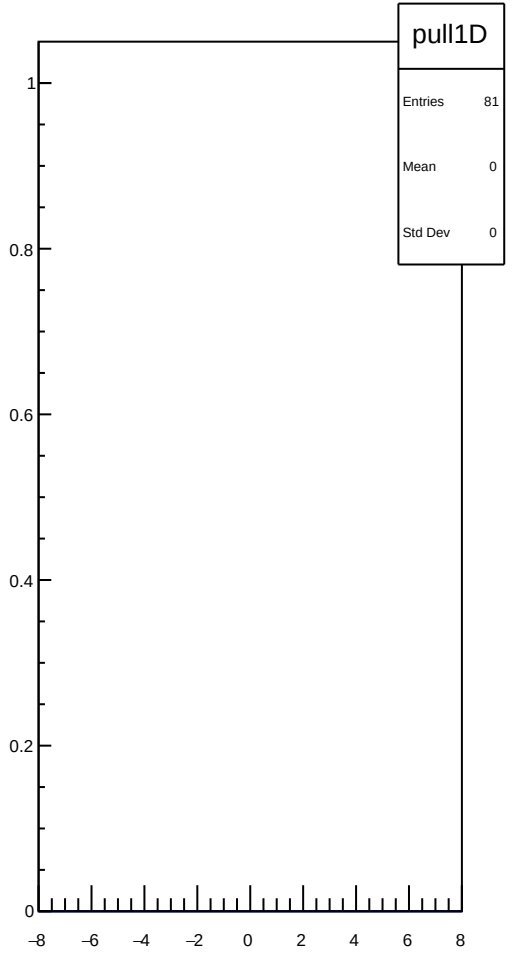

yield_bpm4eX_rms vs run
χ² / ndf 2.523e+05 / 80
p0 0.01749 ± 1.535e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

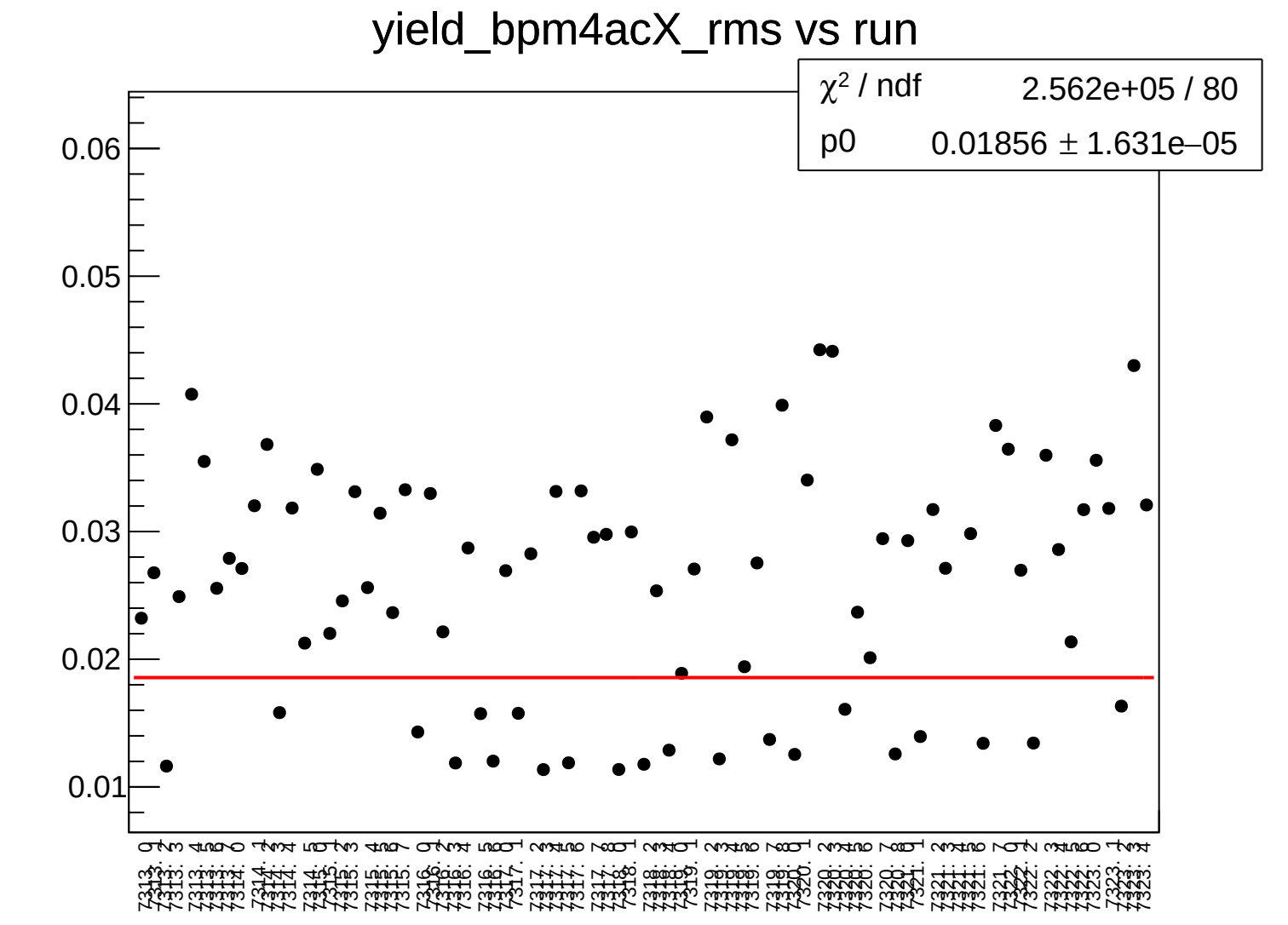

yield_bpm4eY_mean vs run
χ² / ndf 7.751e+04 / 80
p0 0.3355 ± 1.168e−05
0.345
0.34
0.335
0.33
0.325
pull
Entries 81
Mean −217.3
Std Dev 266.9
60
40
20
0
−20
−40
−60
−80

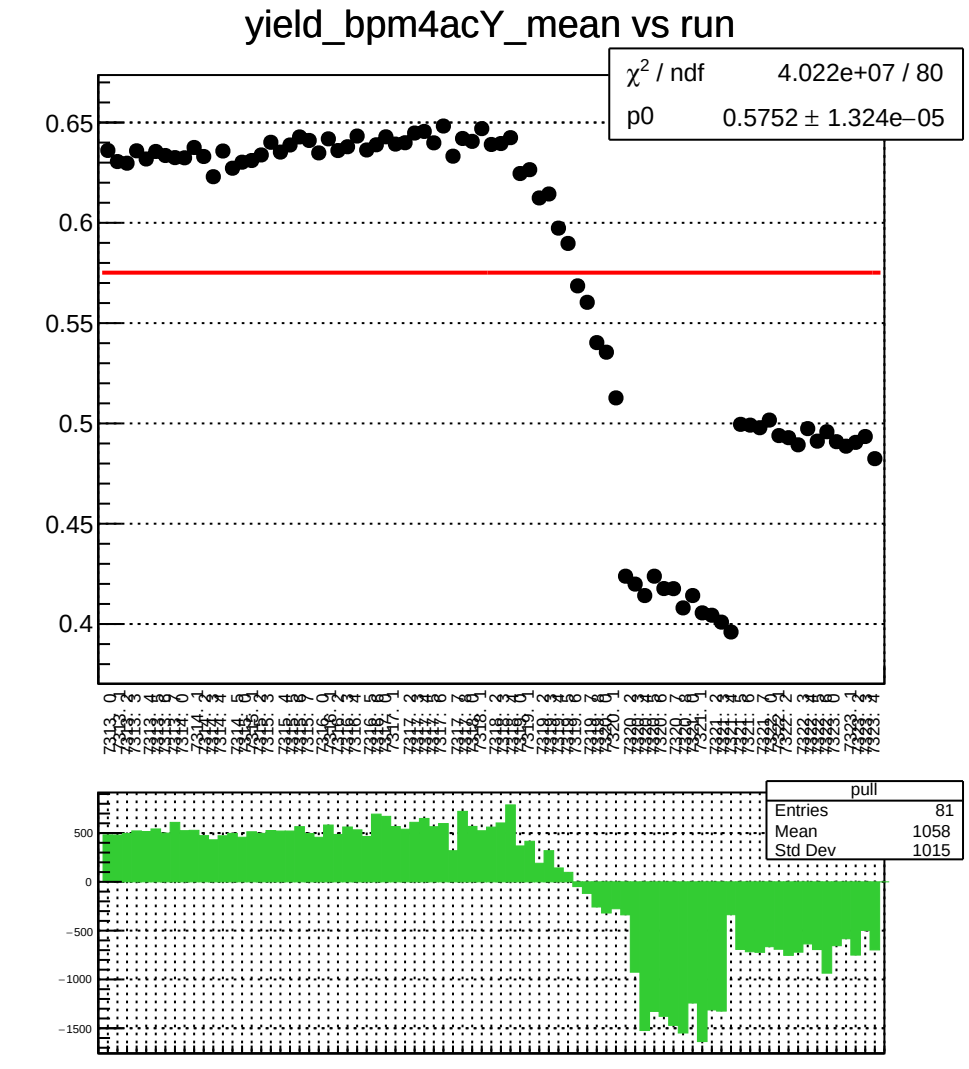

pull1D
Entries 81
Mean 0.2661
Std Dev 3.162
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

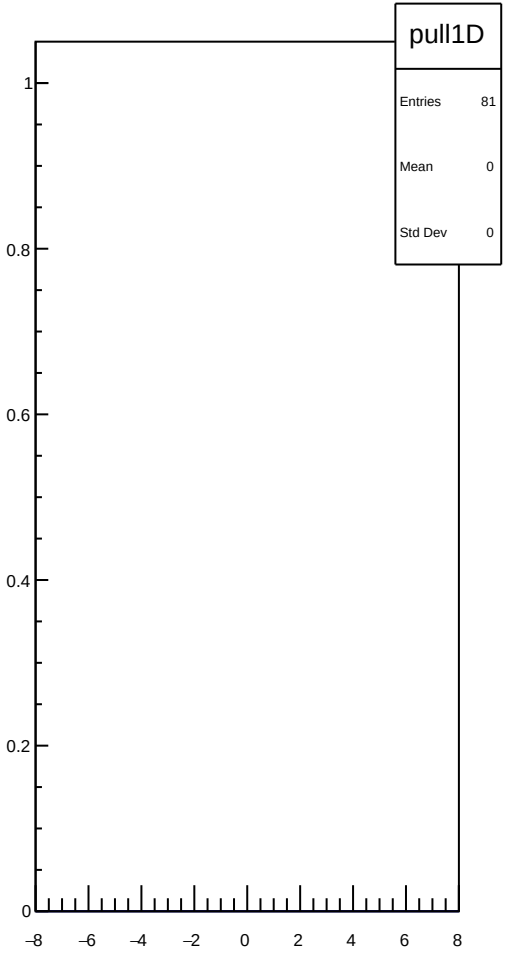

yield_bpm4eY_rms vs run
χ² / ndf 4.966e+04 / 80
p0 0.01012 ± 8.257e–06
0.018
0.016
0.014
0.012
0.01
0.008

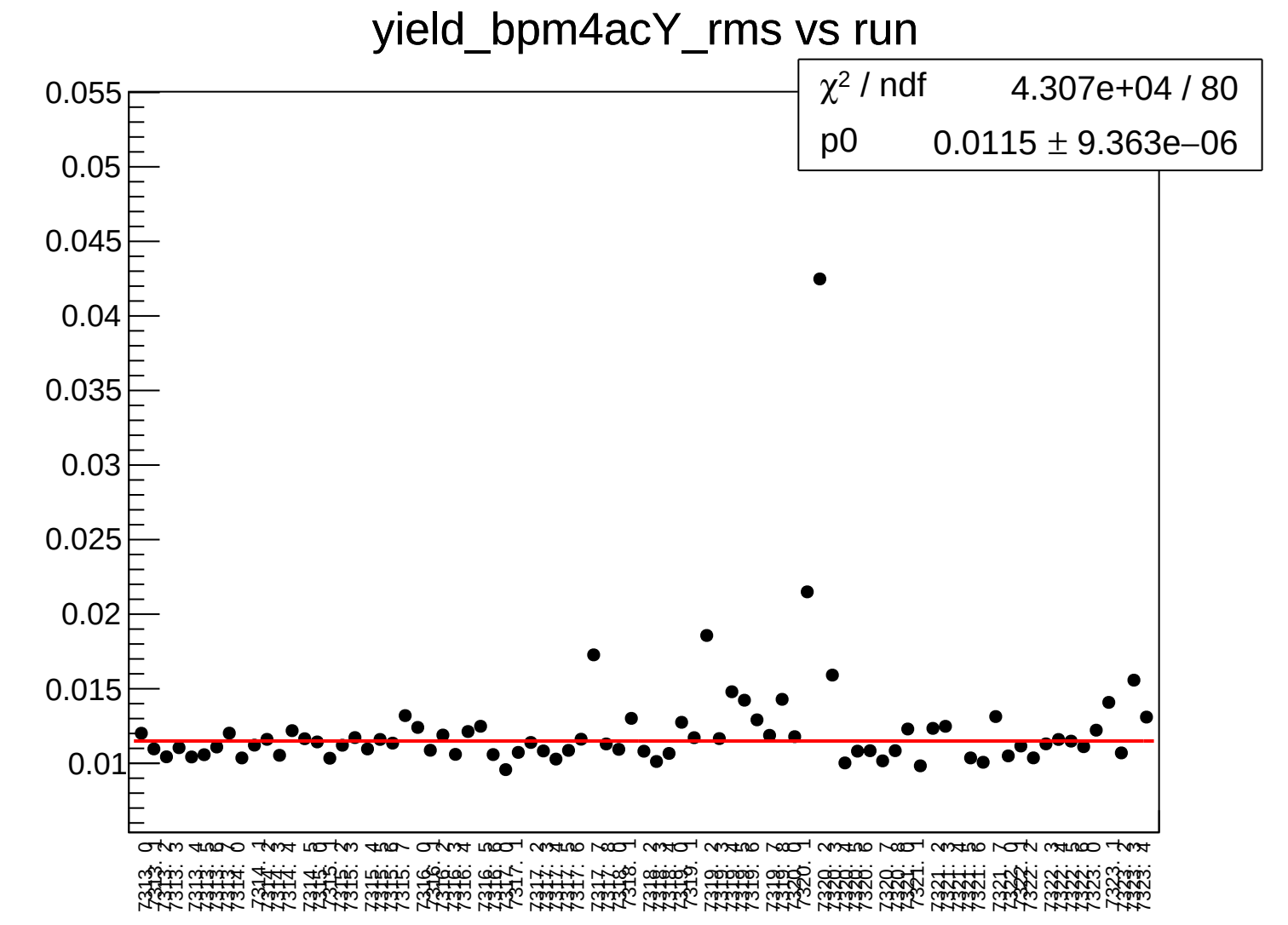

yield_bpm4acX_mean vs run
χ² / ndf 1.223e+07 / 80
p0 −0.9937 ± 2.307e−05
−0.9
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 81
Mean 617.4
Std Dev 574
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

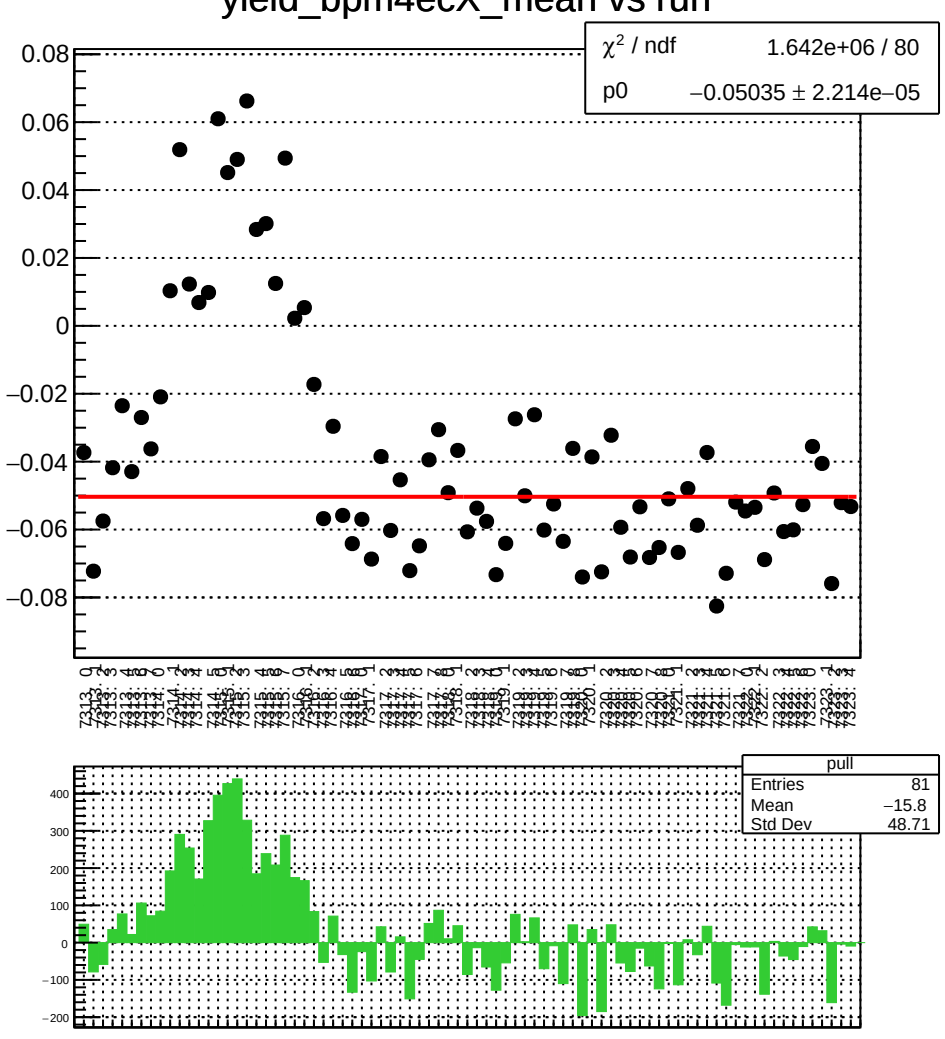

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

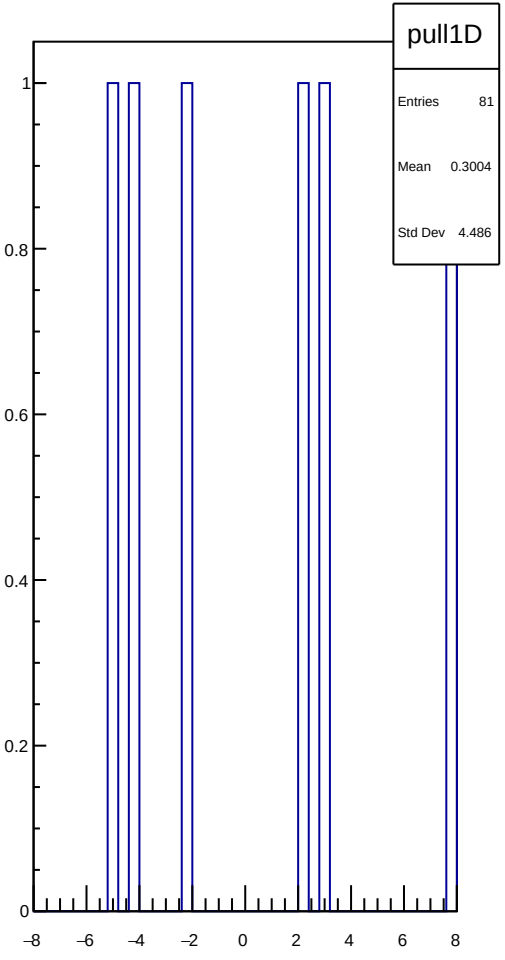

yield_bpm4acX_rms vs run
χ² / ndf 2.562e+05 / 80
p0 0.01856 ± 1.631e–05
0.06
0.05
0.04
0.03
0.02
0.01

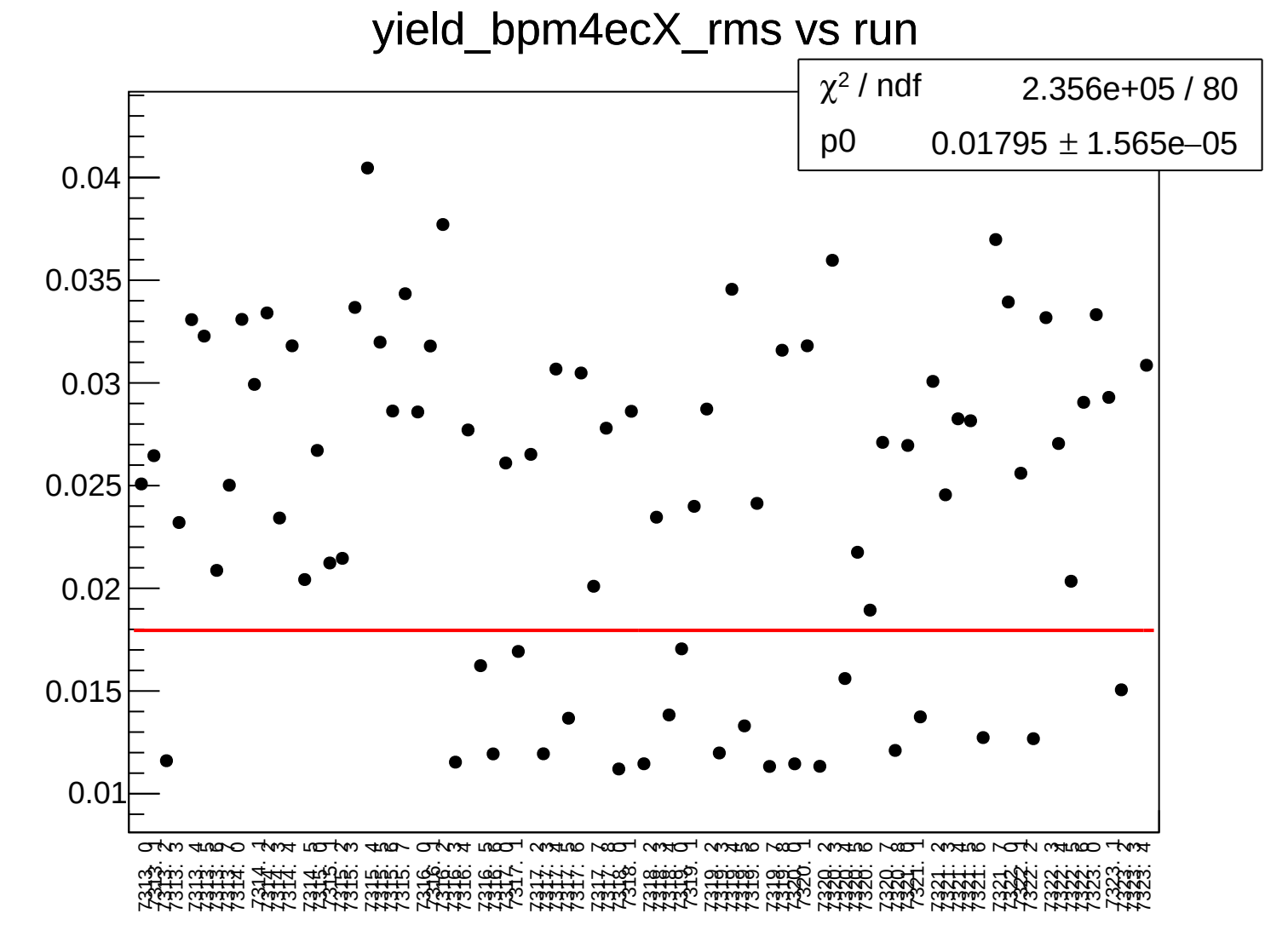

yield_bpm4acY_mean vs run
χ² / ndf 4.022e+07 / 80
p0 0.5752 ± 1.324e−05
0.65
0.6
0.55
0.5
0.45
0.4
pull
Entries 81
Mean 1058
Std Dev 1015
500
0
−500
−1000
−1500

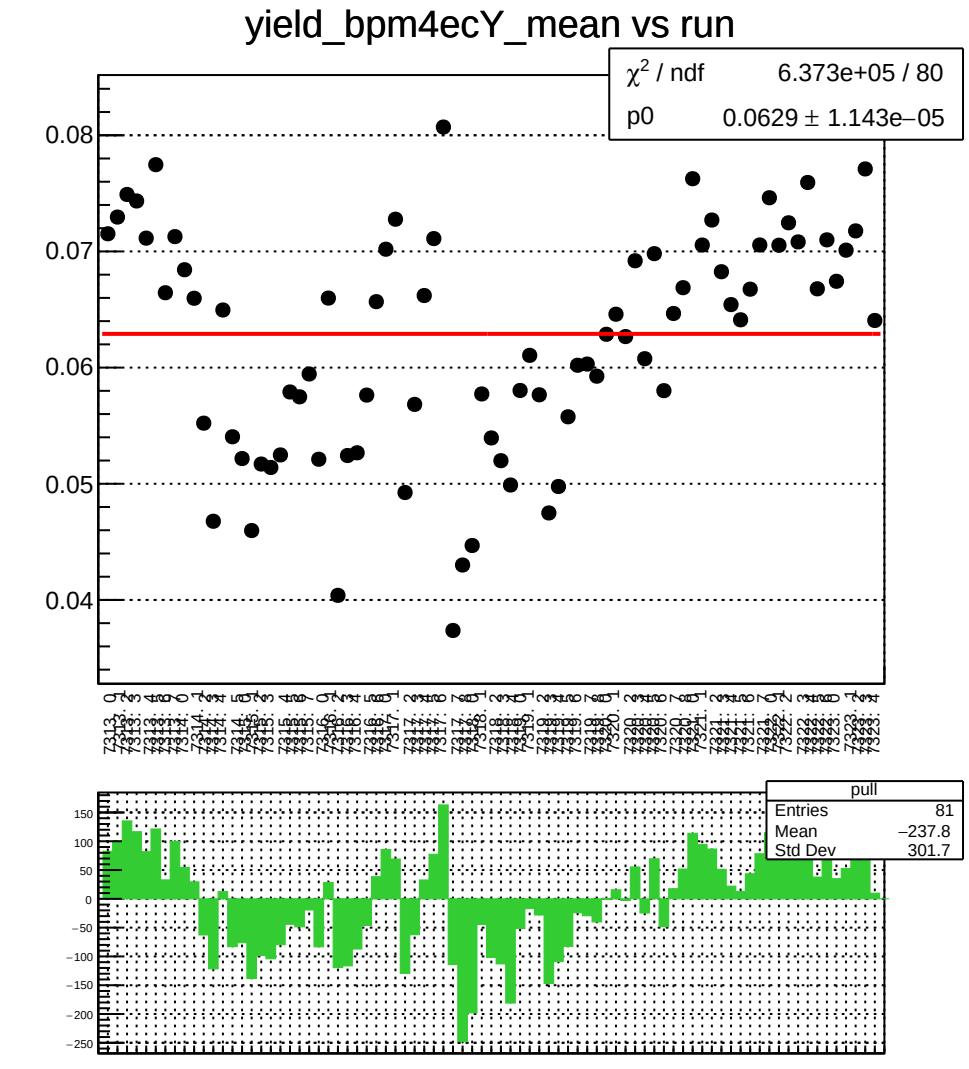

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

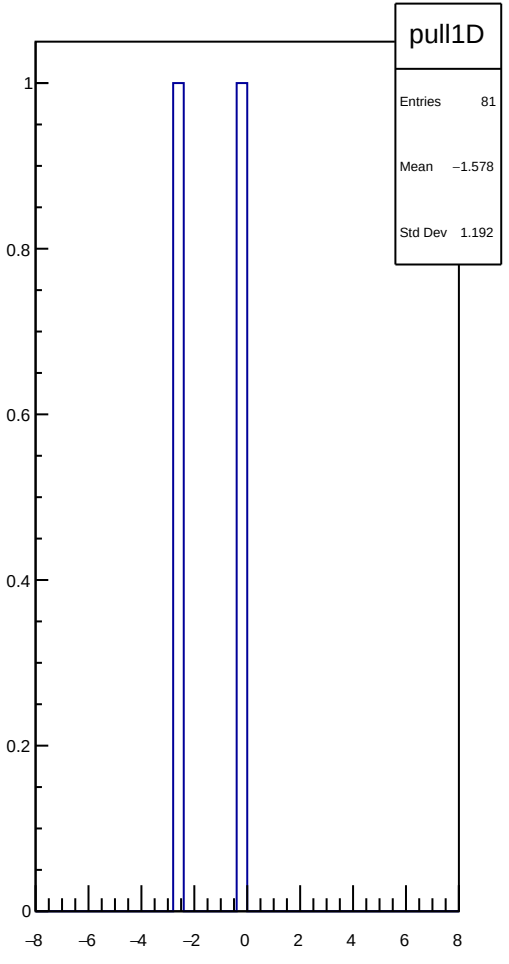

yield_bpm4acY_rms vs run
χ² / ndf 4.307e+04 / 80
p0 0.0115 ± 9.363e−06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

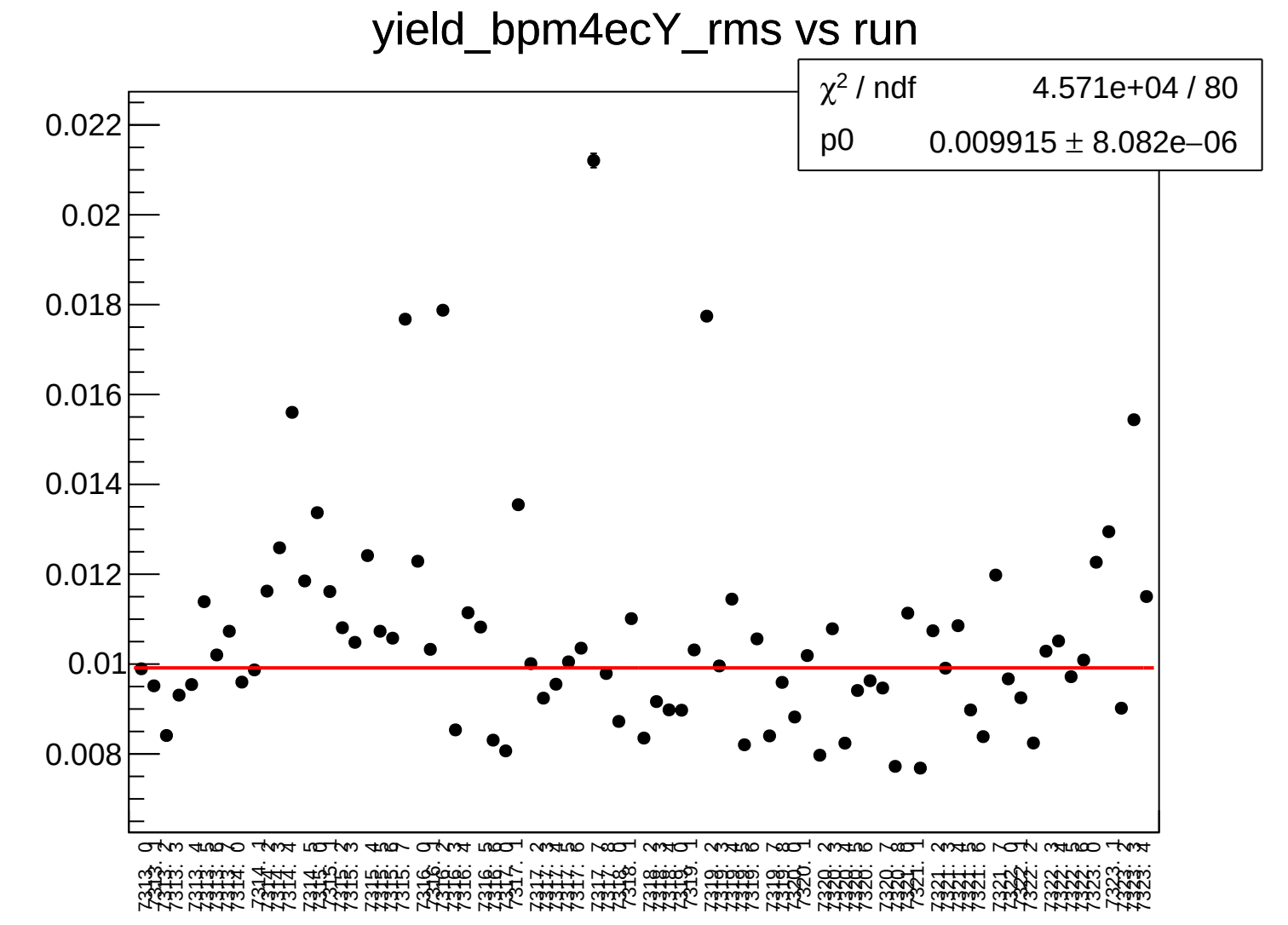

yield_bpm4ecX_mean vs run
χ² / ndf 1.642e+06 / 80
p0 −0.05035 ± 2.214e−05
pull
Entries 81
Mean −15.8
Std Dev 48.71

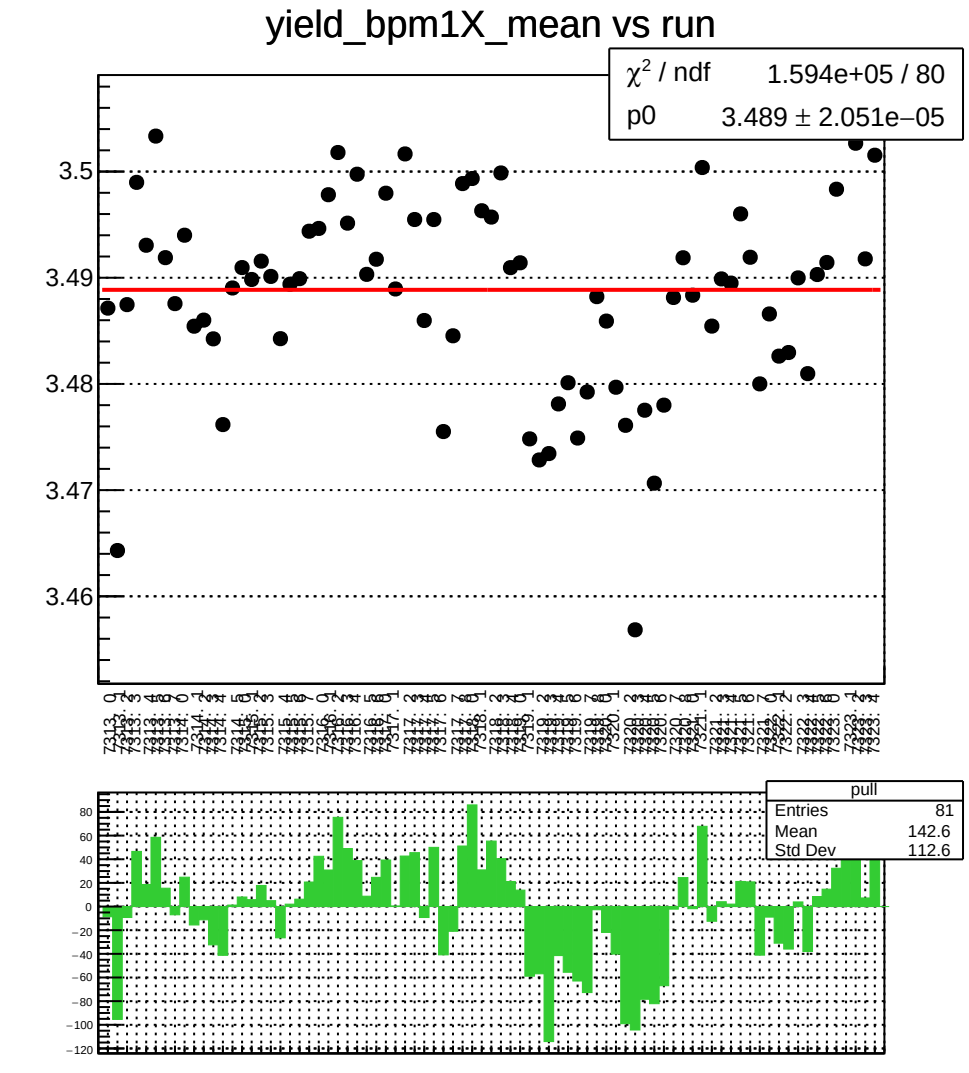

pull1D
Entries 81
Mean 0.3004
Std Dev 4.486

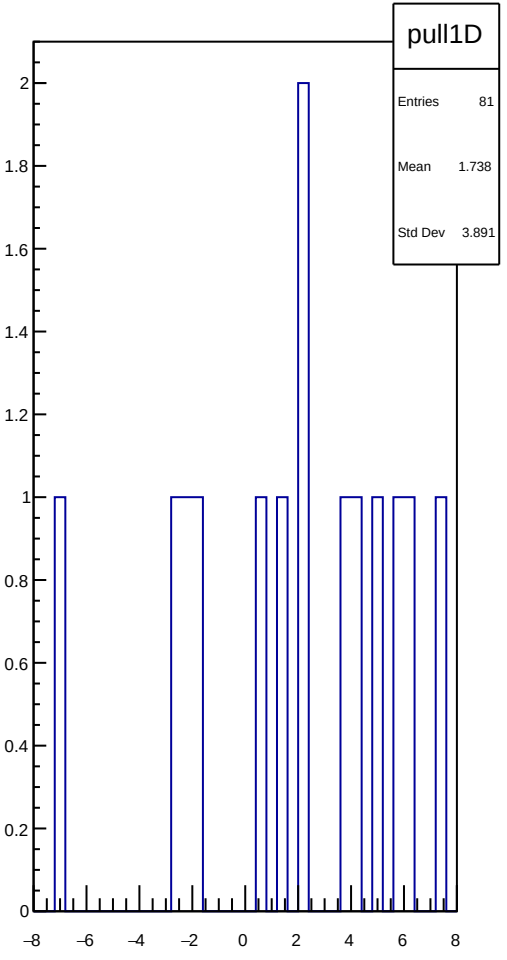

yield_bpm4ecX_rms vs run
χ² / ndf 2.356e+05 / 80
p0 0.01795 ± 1.565e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

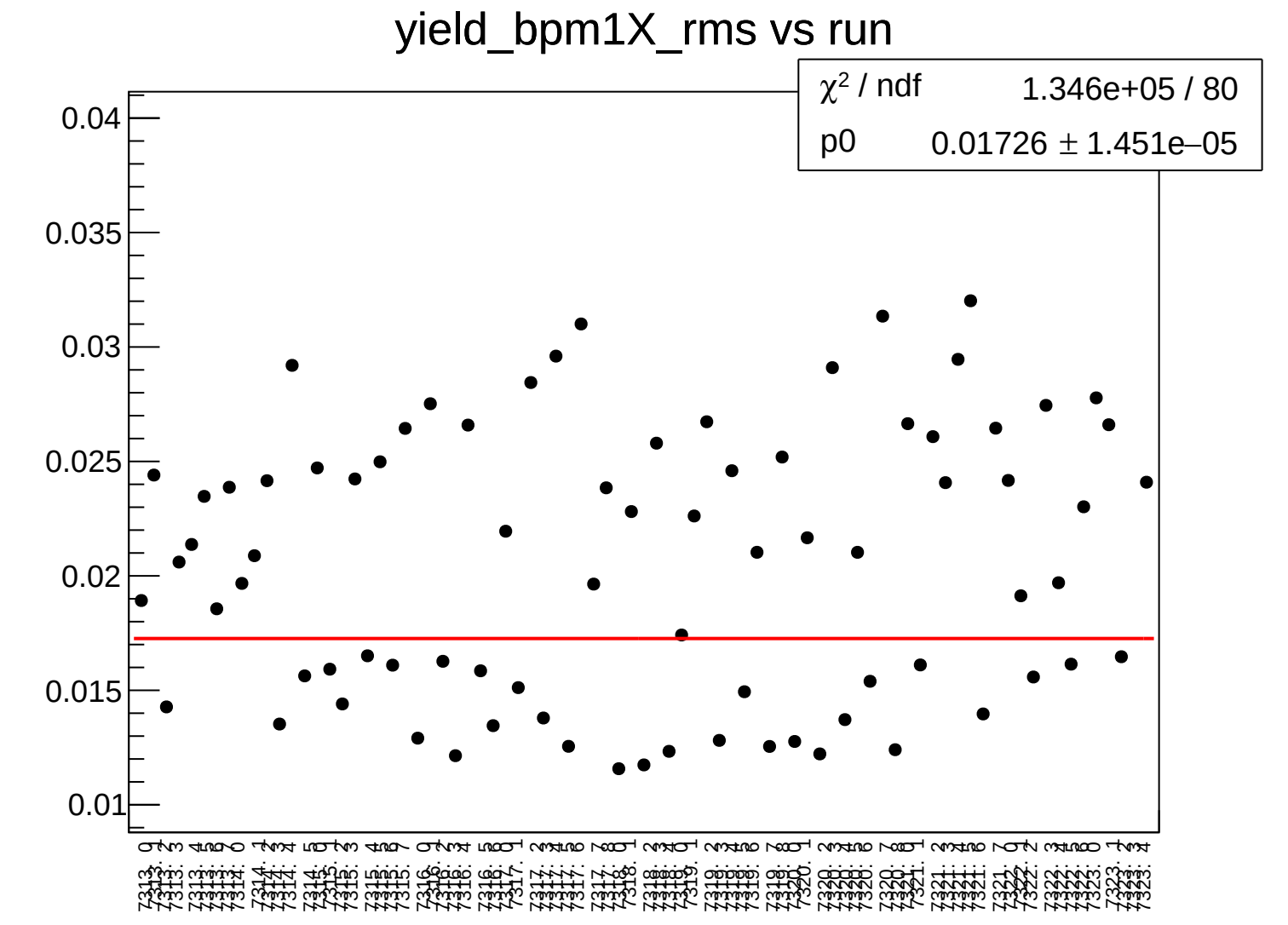

yield_bpm4ecY_mean vs run
χ² / ndf 6.373e+05 / 80
p0 0.0629 ± 1.143e−05
0.08
0.07
0.06
0.05
0.04
pull
Entries 81
Mean −237.8
Std Dev 301.7
150
100
50
0
−50
−100
−150
−200
−250

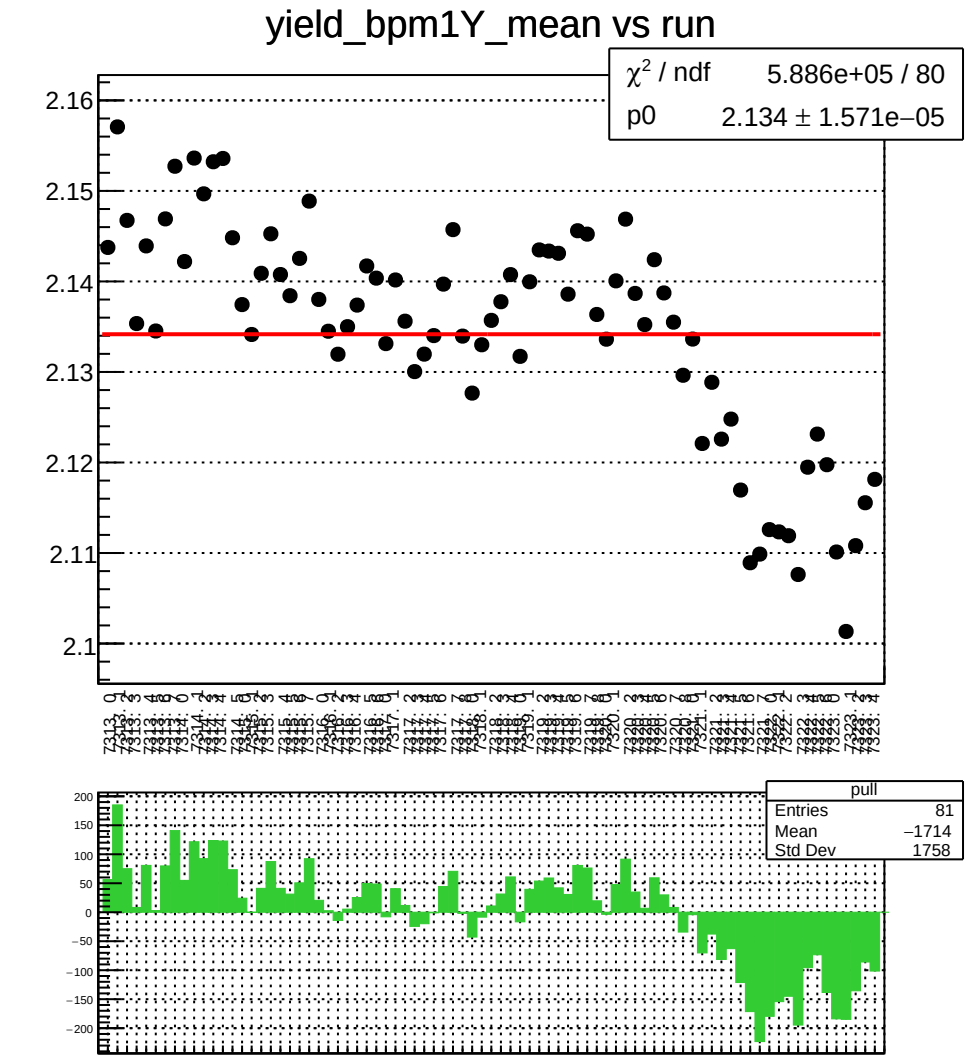

pull1D
Entries 81
Mean −1.578
Std Dev 1.192
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

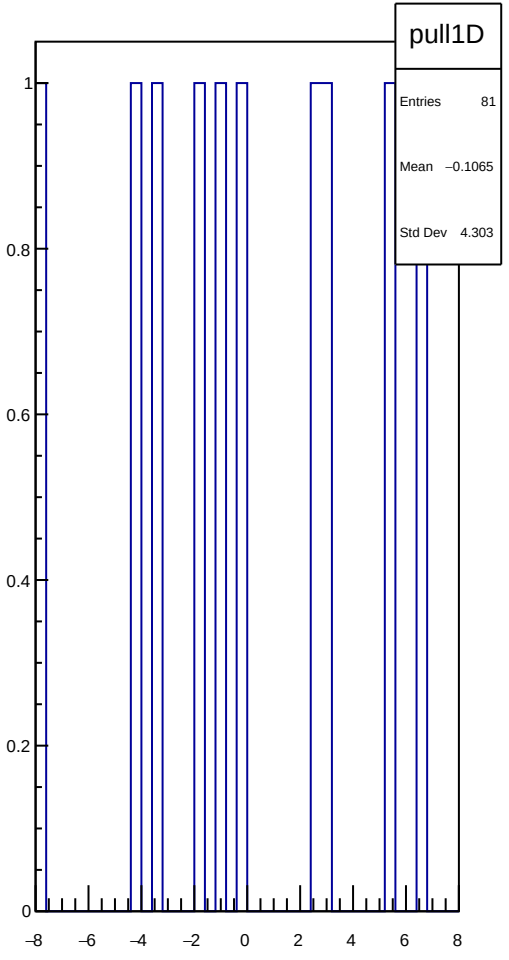

yield_bpm4ecY_rms vs run
χ² / ndf 4.571e+04 / 80
p0 0.009915 ± 8.082e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

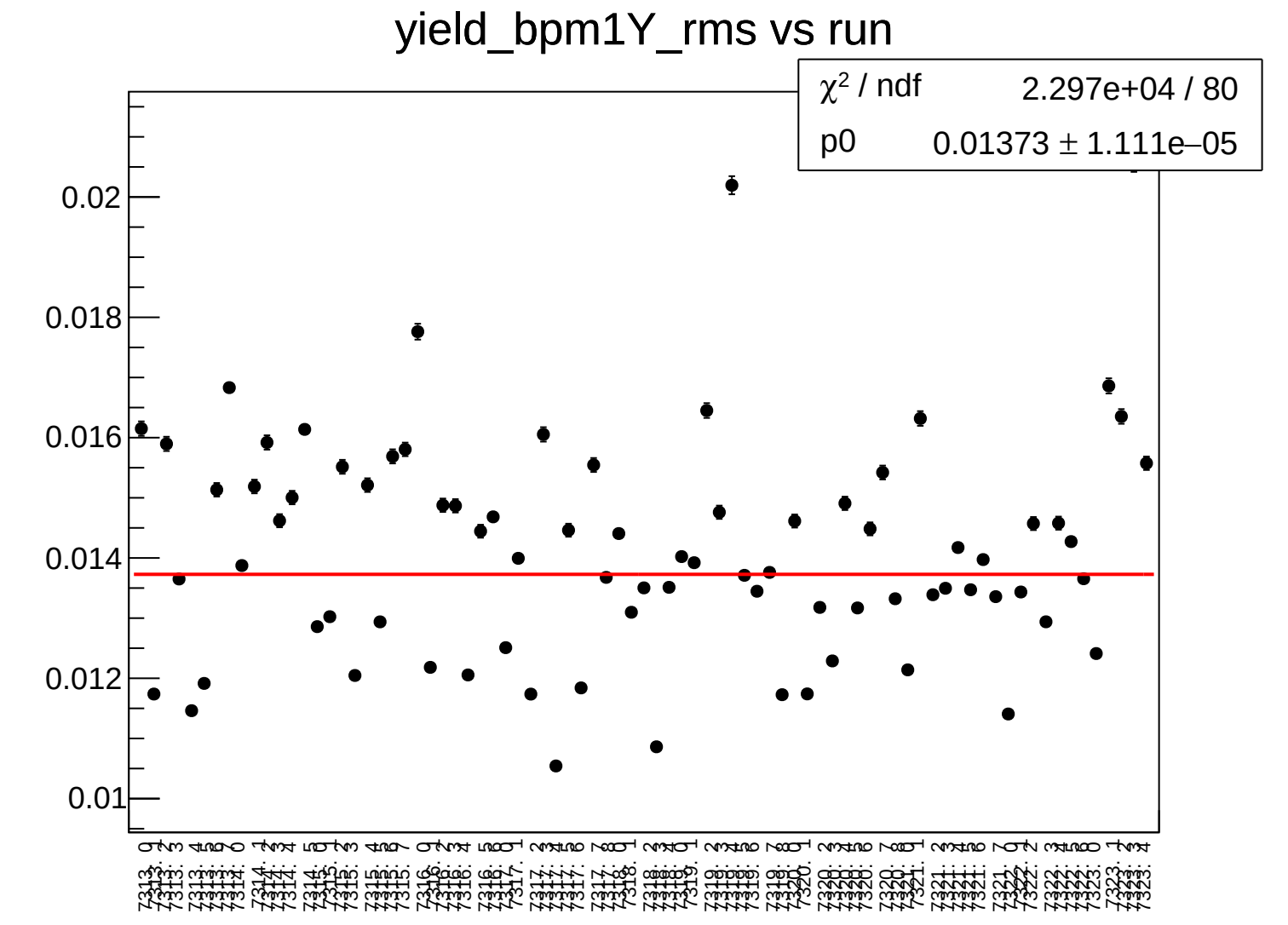

yield_bpm1X_mean vs run
χ² / ndf 1.594e+05 / 80
p0 3.489 ± 2.051e−05
3.5
3.49
3.48
3.47
3.46
pull
Entries 81
Mean 142.6
Std Dev 112.6
80
60
40
20
0
−20
−40
−60
−80
−100
−120

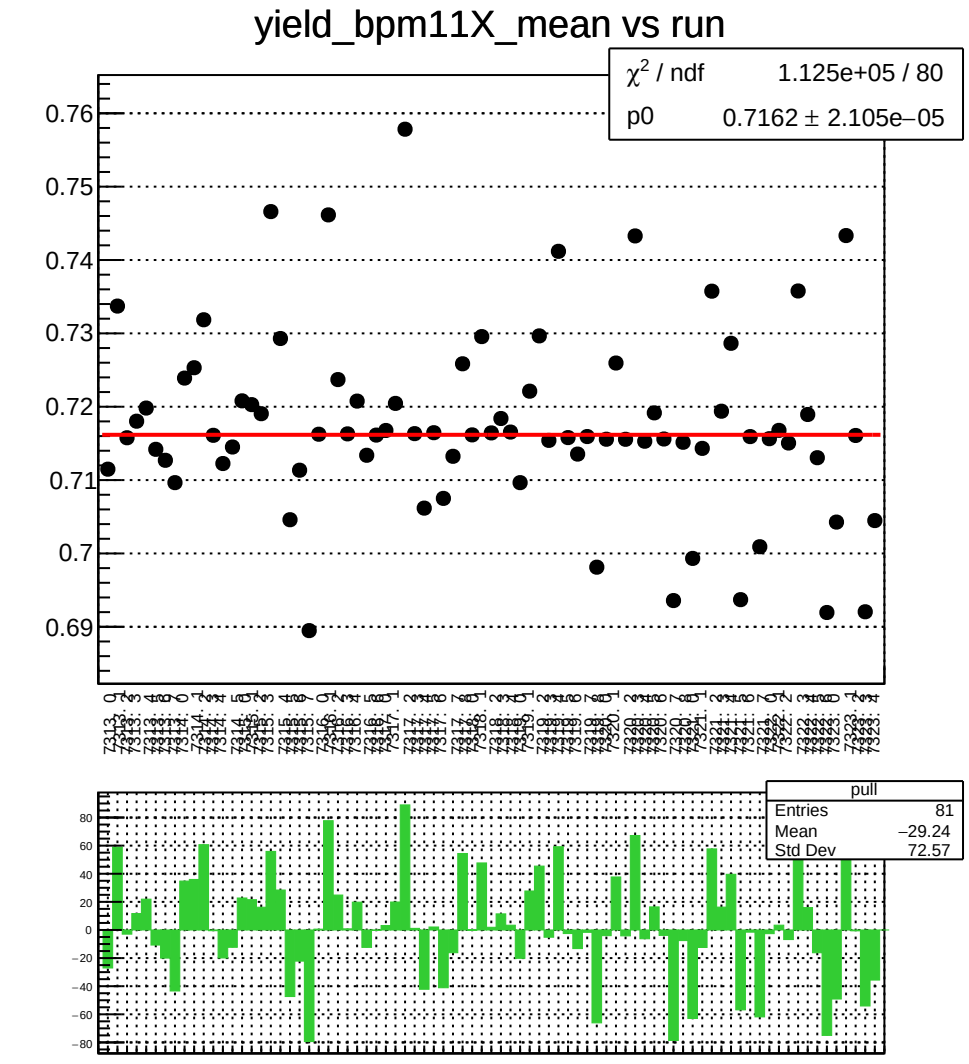

pull1D
Entries 81
Mean 1.738
Std Dev 3.891
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

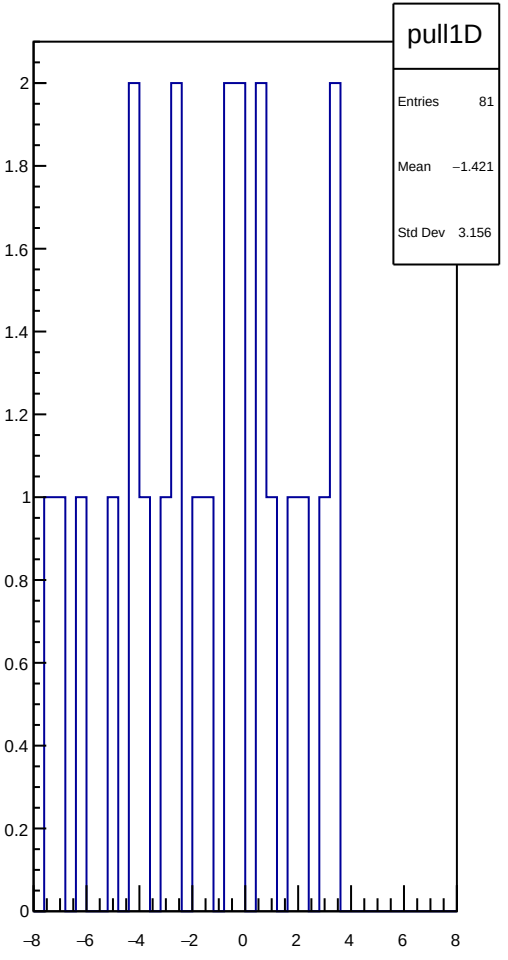

yield_bpm1X_rms vs run
χ² / ndf 1.346e+05 / 80
p0 0.01726 ± 1.451e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

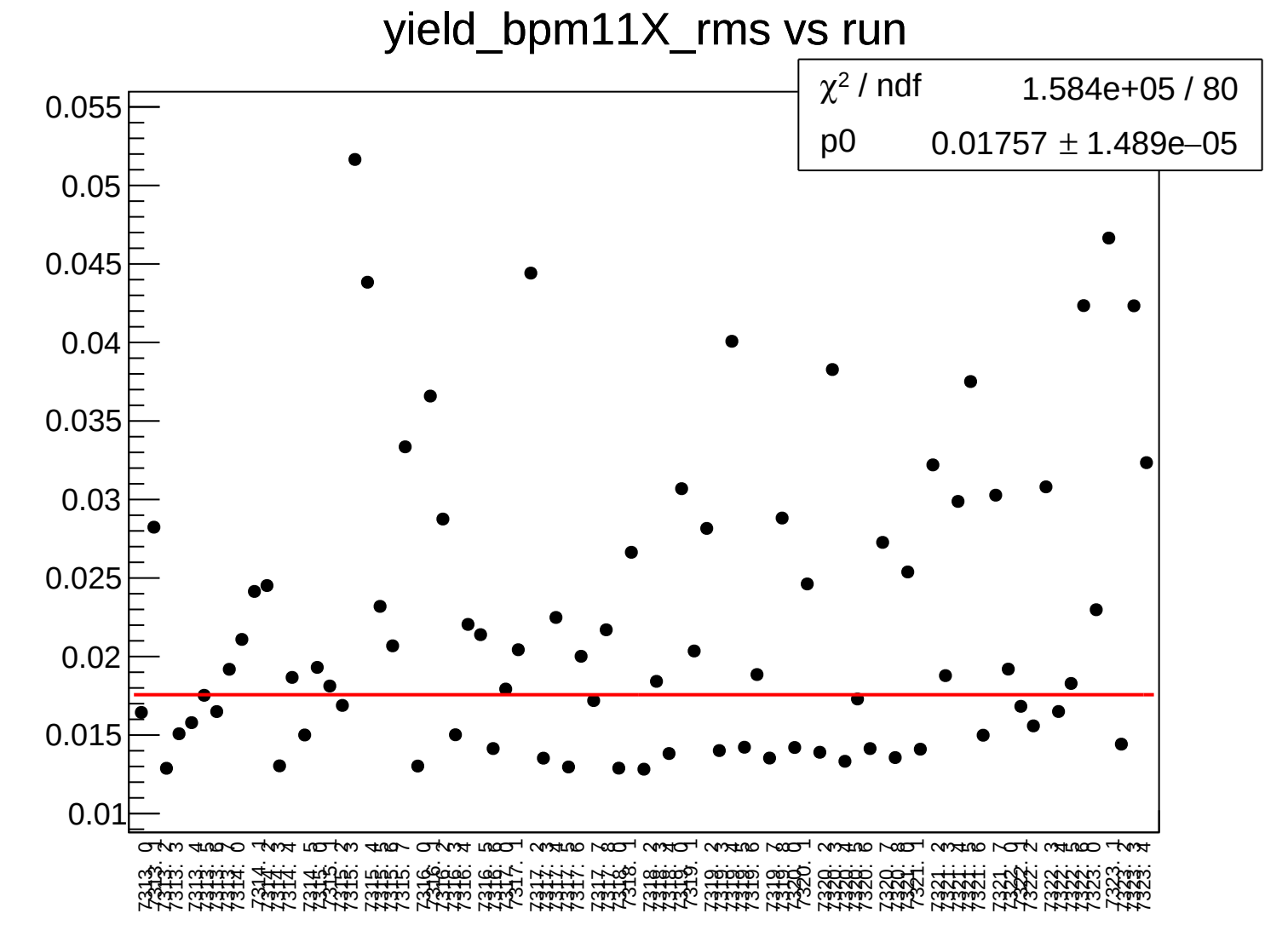

yield_bpm1Y_mean vs run
χ² / ndf 5.886e+05 / 80
p0 2.134 ± 1.571e−05
2.16
2.15
2.14
2.13
2.12
2.11
2.1
pull
Entries 81
Mean −1714
Std Dev 1758
200
150
100
50
0
−50
−100
−150
−200

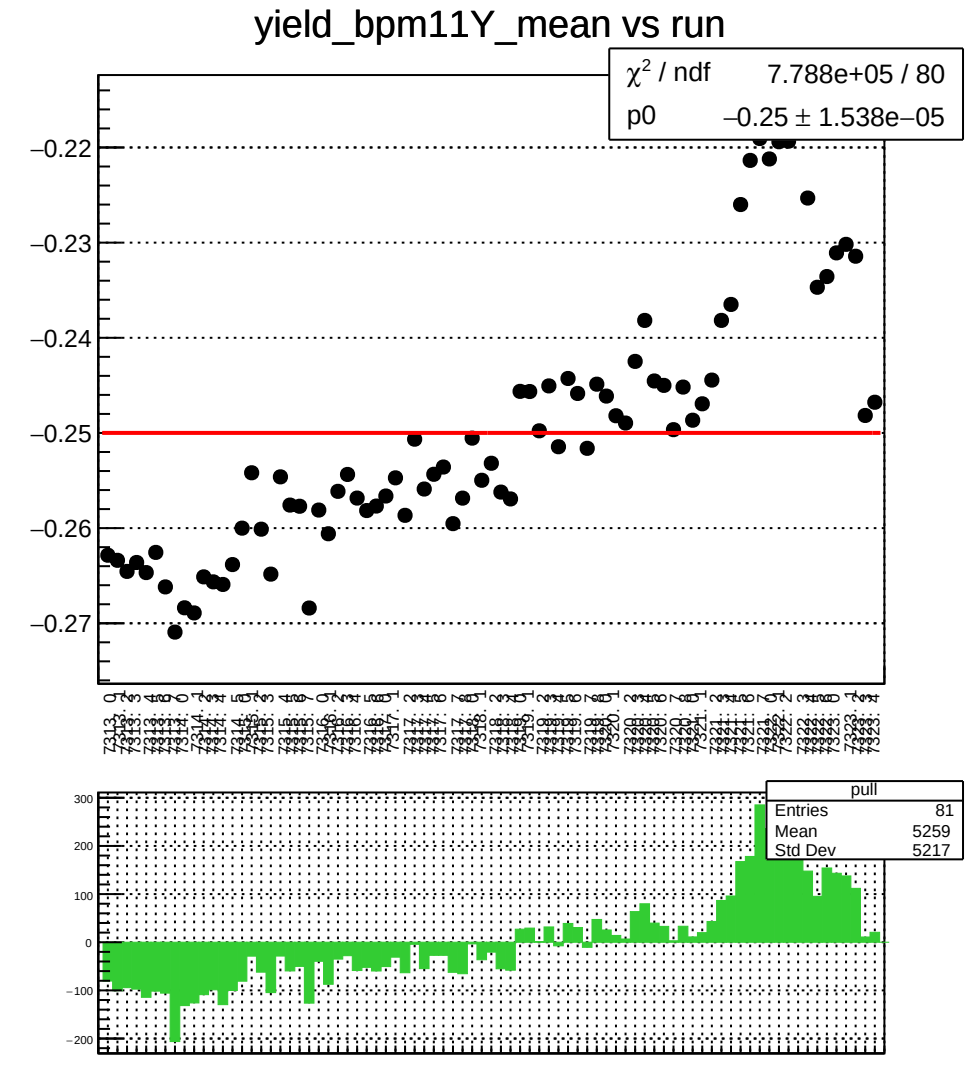

pull1D
Entries 81
Mean −0.1065
Std Dev 4.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

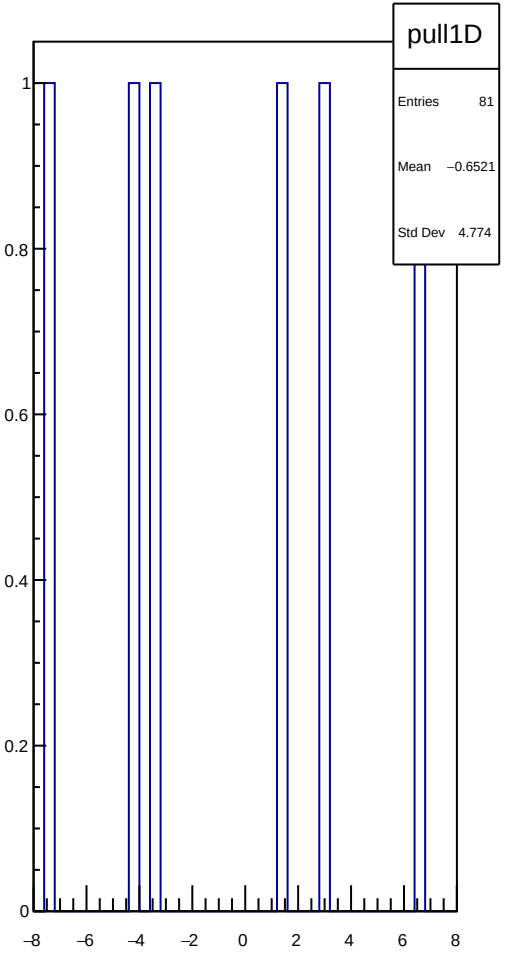

yield_bpm1Y_rms vs run
χ² / ndf 2.297e+04 / 80
p0 0.01373 ± 1.111e−05
0.02
0.018
0.016
0.014
0.012
0.01

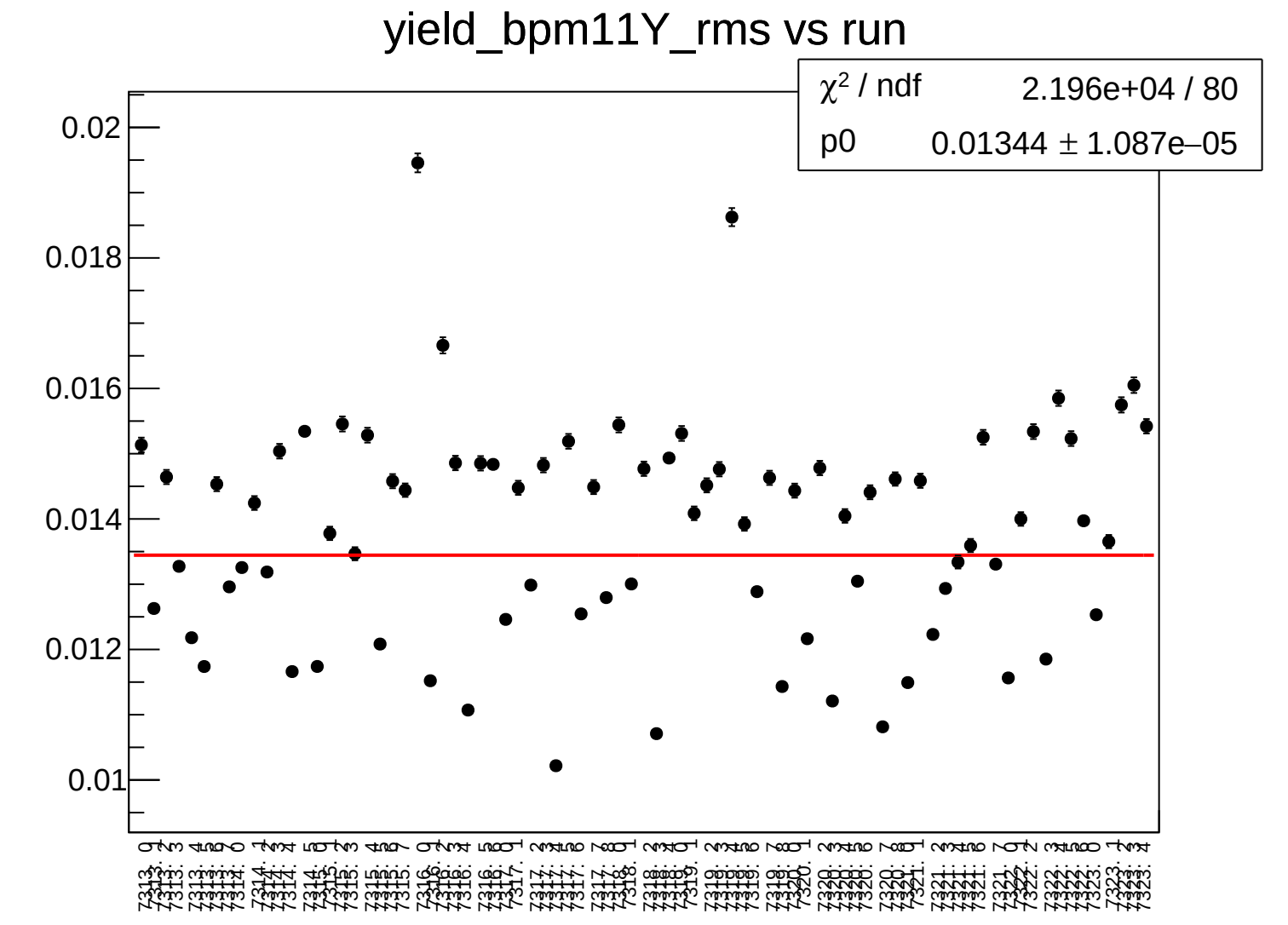

yield_bpm11X_mean vs run
χ² / ndf 1.125e+05 / 80
p0 0.7162 ± 2.105e−05
pull
Entries 81
Mean −29.24
Std Dev 72.57

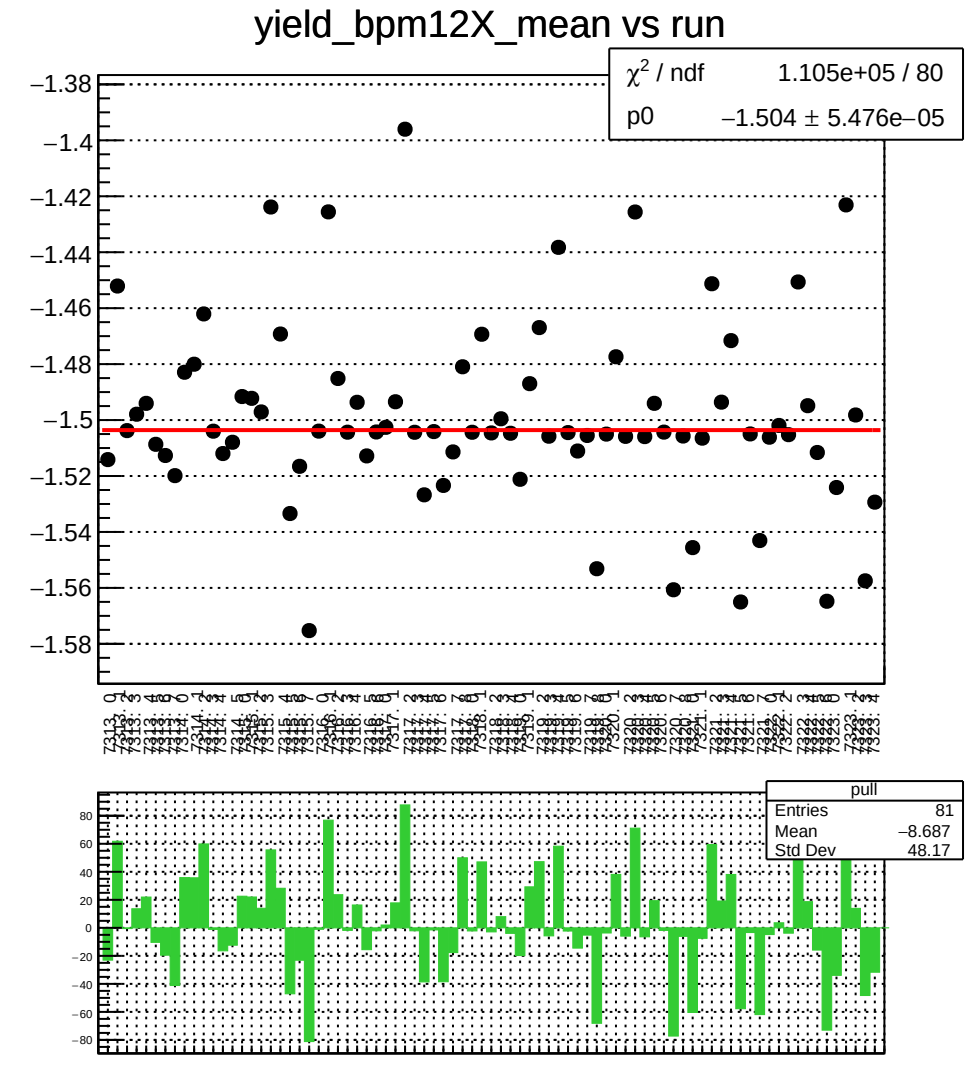

pull1D
Entries 81
Mean −1.421
Std Dev 3.156

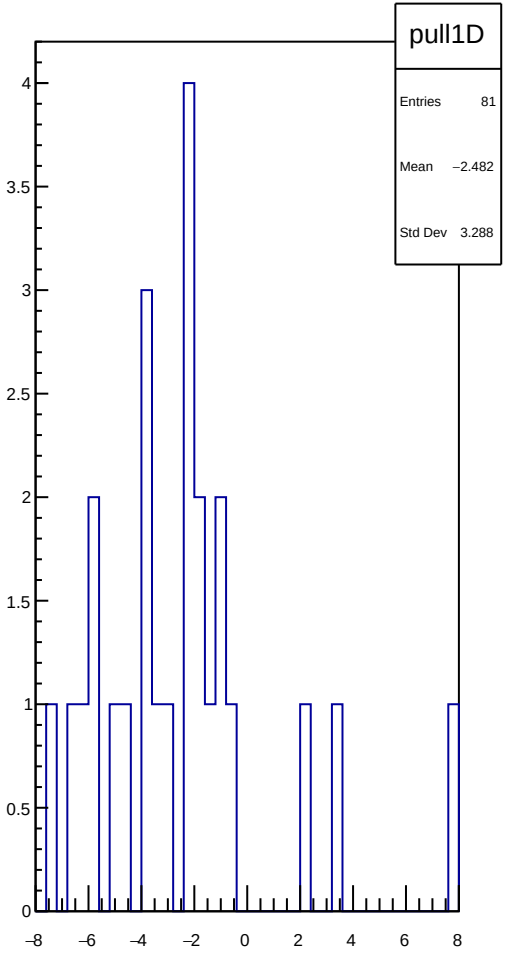

yield_bpm11X_rms vs run
χ² / ndf 1.584e+05 / 80
p0 0.01757 ± 1.489e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

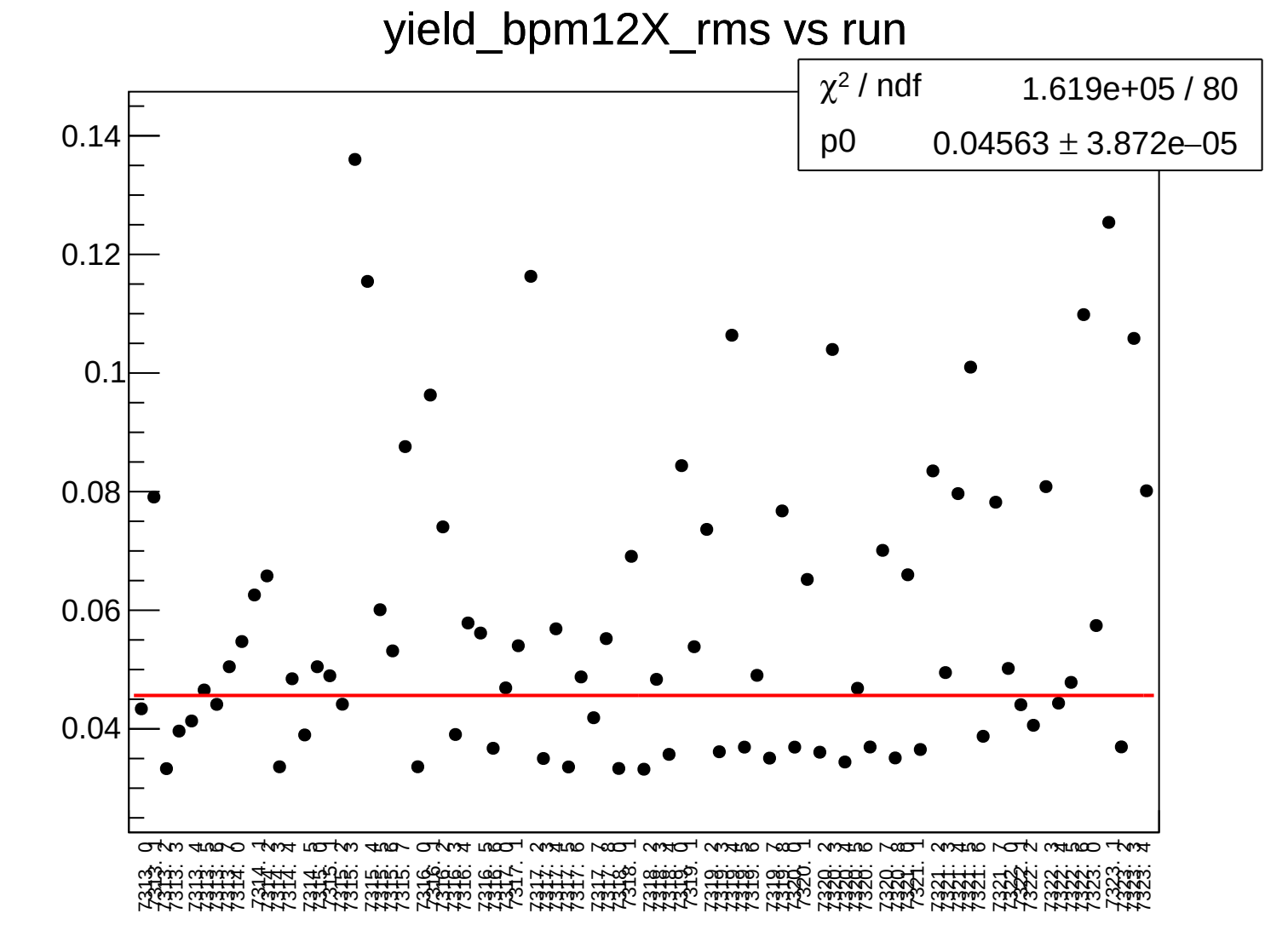

yield_bpm11Y_mean vs run
χ² / ndf 7.788e+05 / 80
p0 −0.25 ± 1.538e−05
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
pull
Entries 81
Mean 5259
Std Dev 5217
300
200
100
0
−100
−200

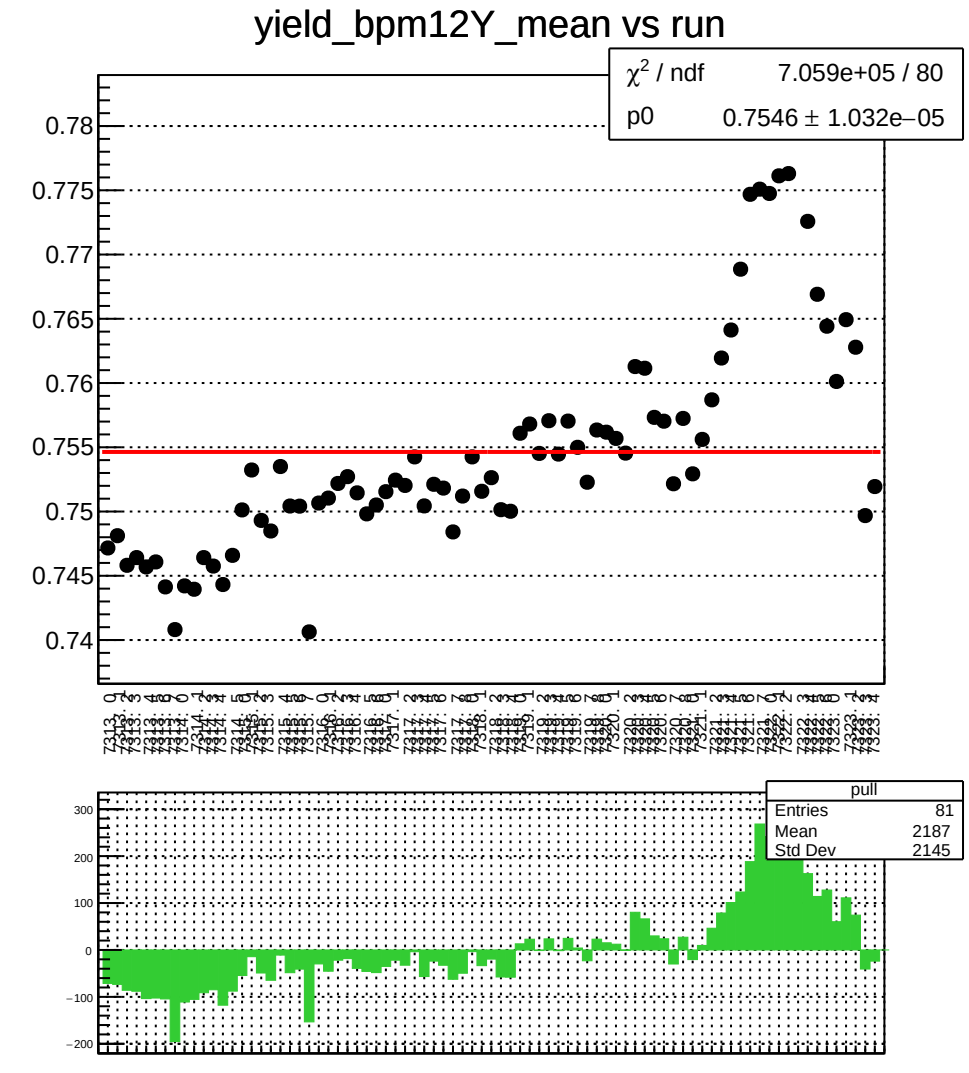

pull1D
Entries 81
Mean −0.6521
Std Dev 4.774
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

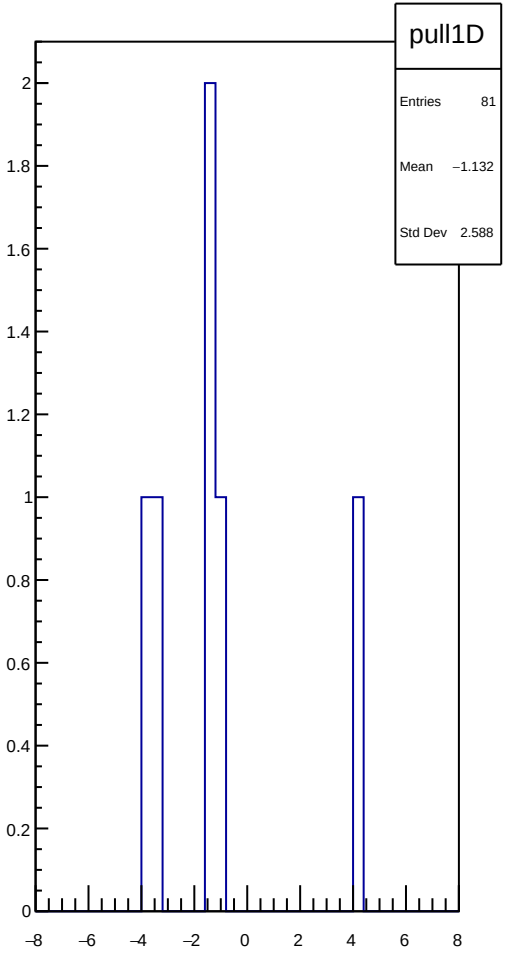

yield_bpm11Y_rms vs run
χ² / ndf 2.196e+04 / 80
p0 0.01344 ± 1.087e–05
0.02
0.018
0.016
0.014
0.012
0.01

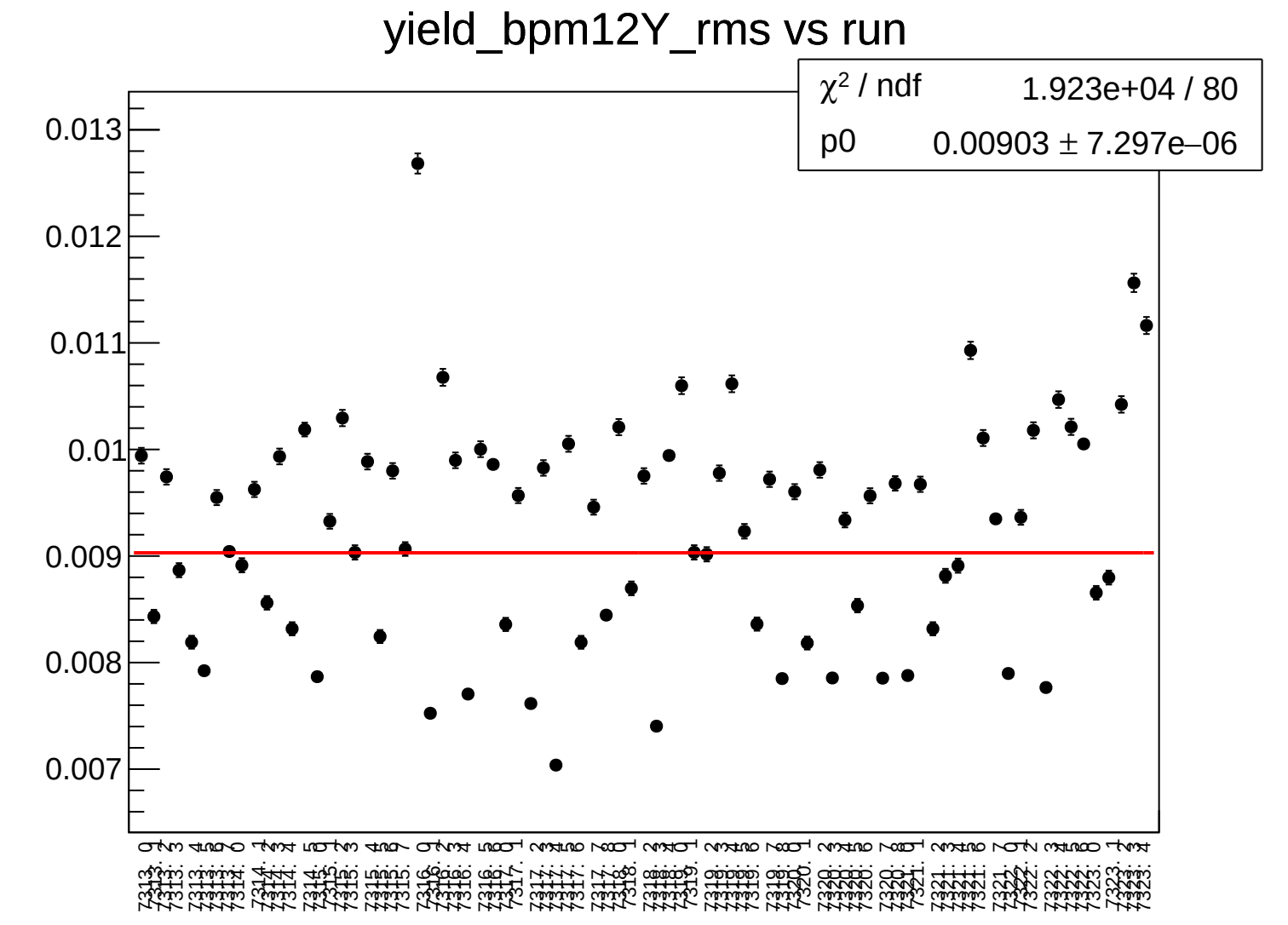

yield_bpm12X_mean vs run
χ² / ndf 1.105e+05 / 80
p0 −1.504 ± 5.476e−05
pull
Entries 81
Mean −8.687
Std Dev 48.17

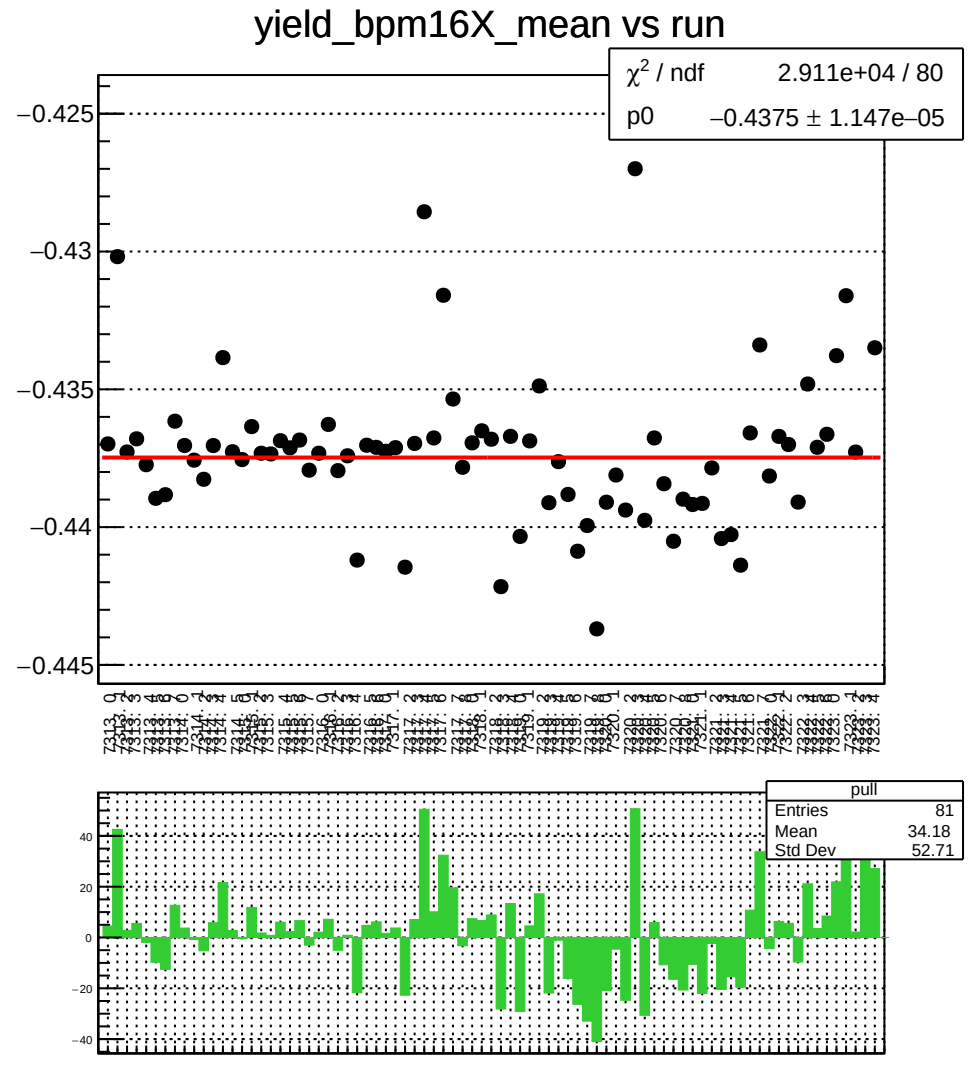

pull1D
Entries 81
Mean −2.482
Std Dev 3.288

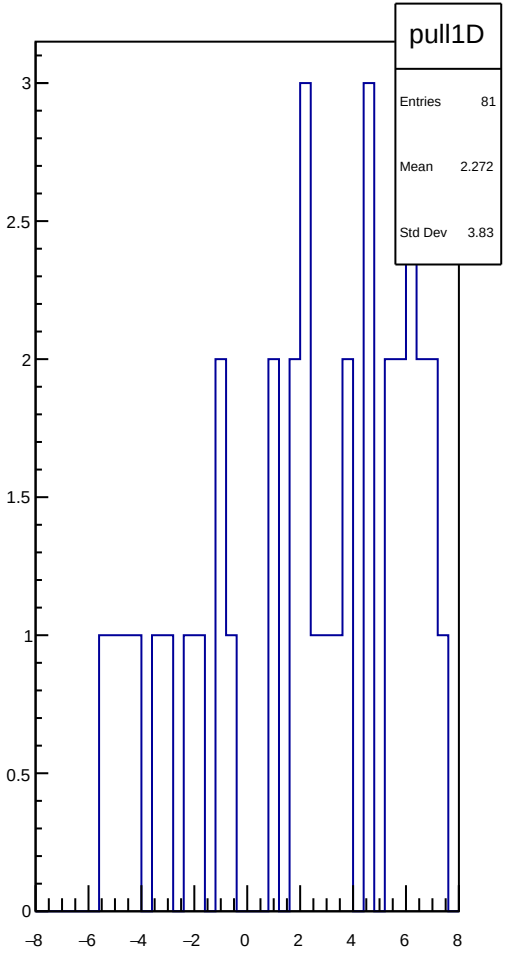

yield_bpm12X_rms vs run
χ² / ndf 1.619e+05 / 80
p0 0.04563 ± 3.872e–05
0.14
0.12
0.1
0.08
0.06
0.04

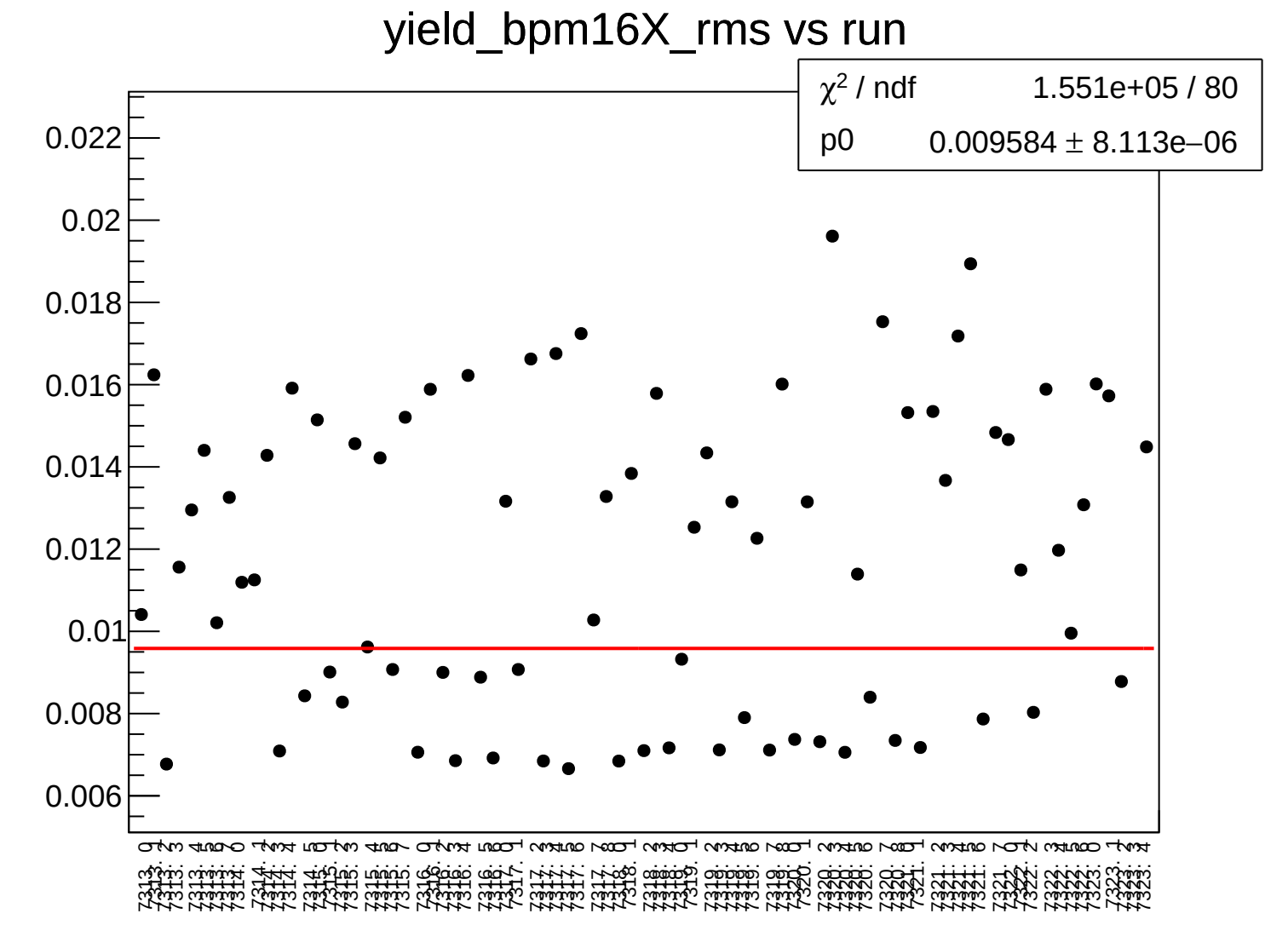

yield_bpm12Y_mean vs run
χ² / ndf 7.059e+05 / 80
p0 0.7546 ± 1.032e−05
0.78
0.775
0.77
0.765
0.76
0.755
0.75
0.745
0.74
pull
Entries 81
Mean 2187
Std Dev 2145
300
200
100
0
−100
−200

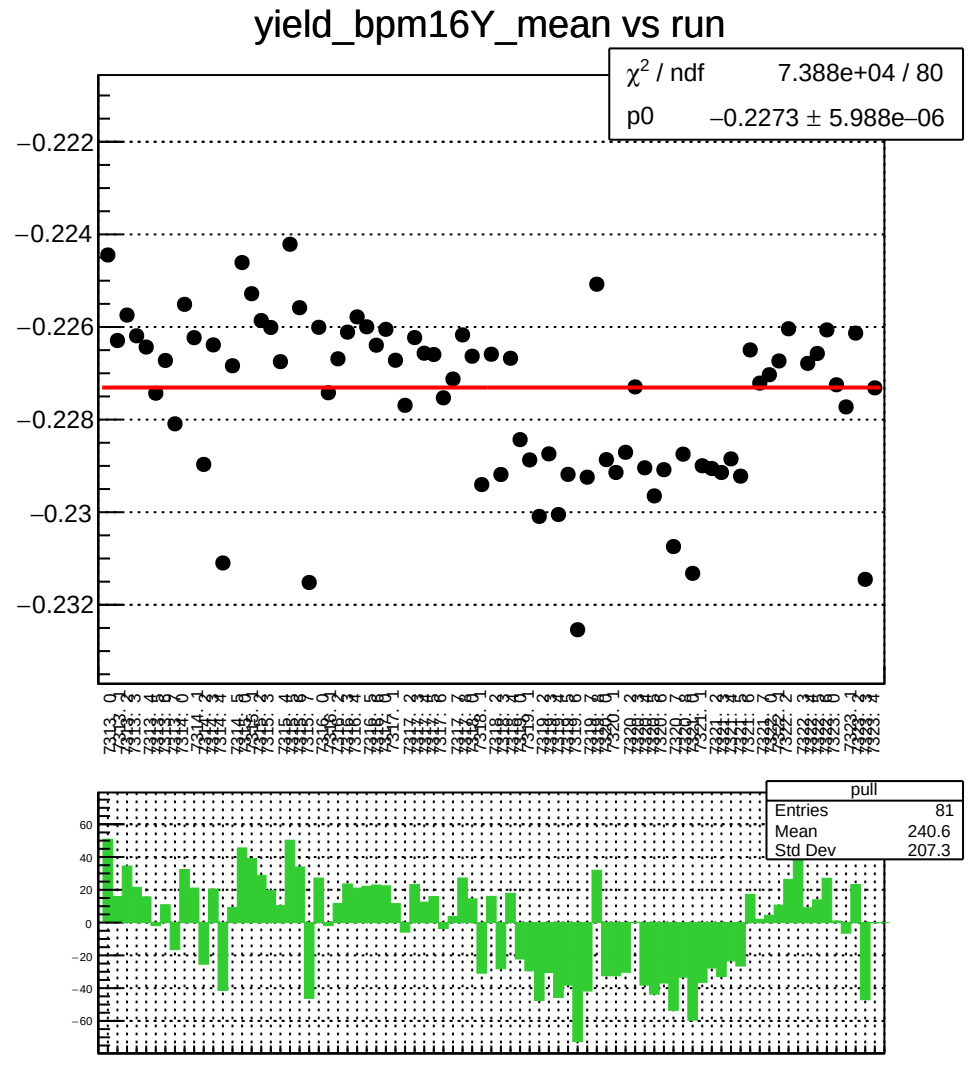

pull1D
Entries 81
Mean −1.132
Std Dev 2.588
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

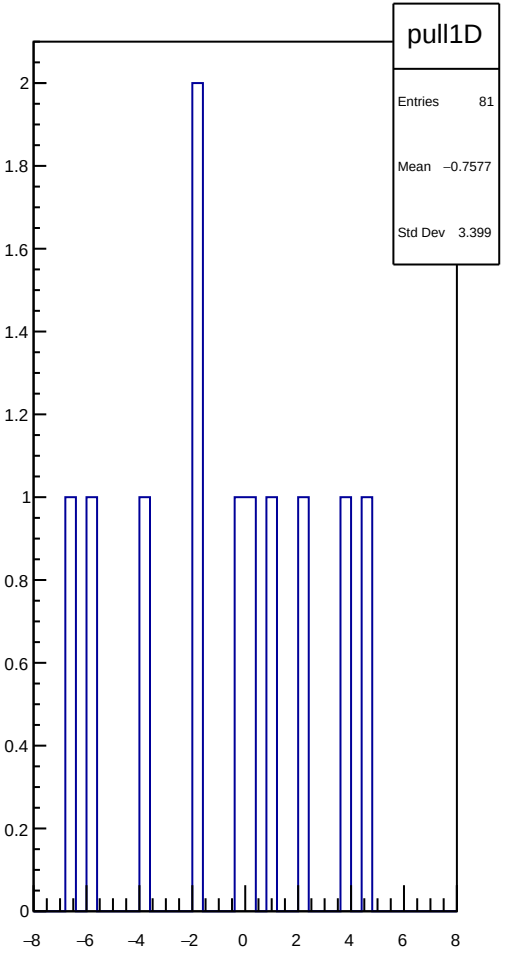

yield_bpm12Y_rms vs run
χ² / ndf 1.923e+04 / 80
p0 0.00903 ± 7.297e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

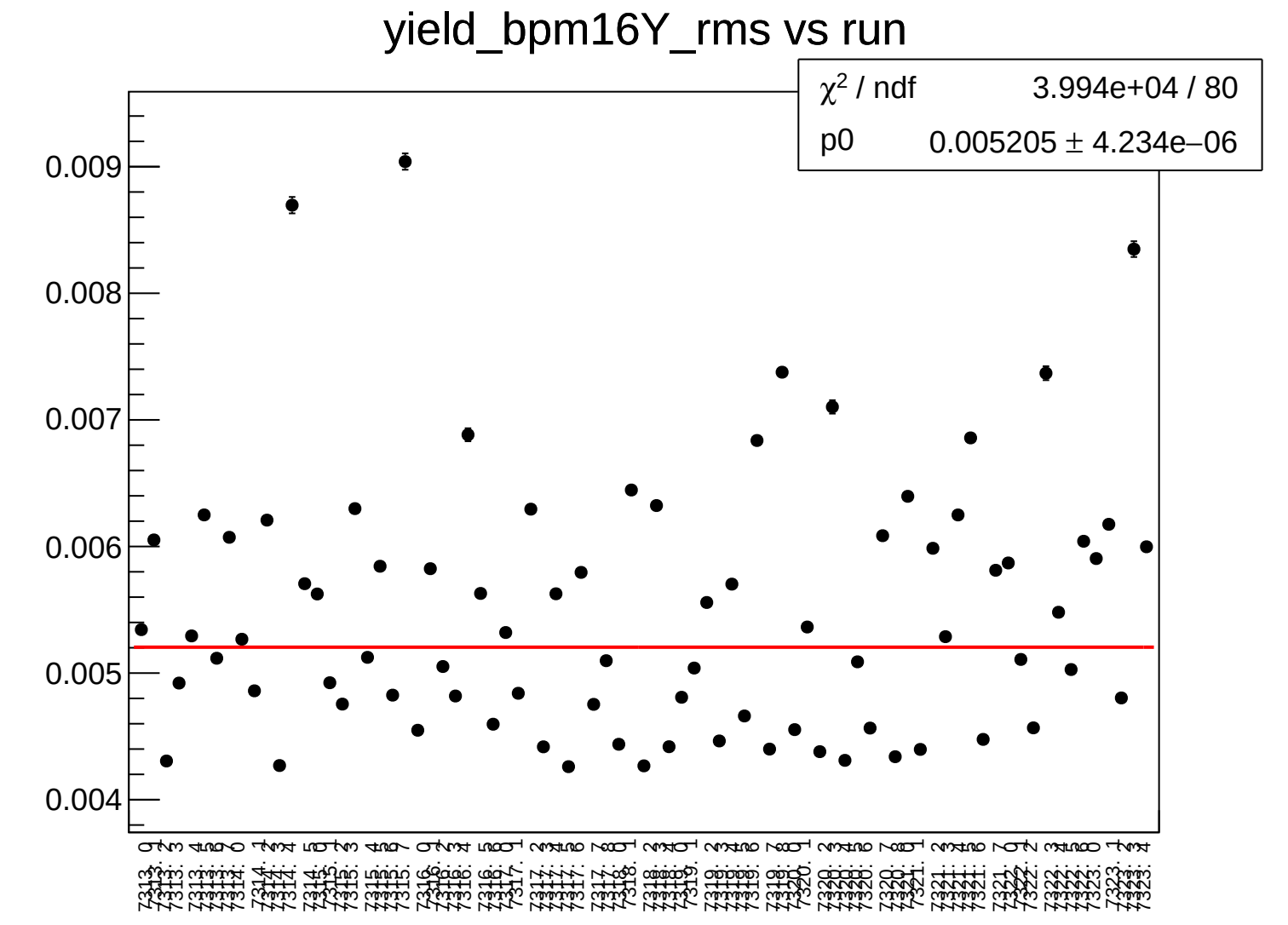

yield_bpm16X_mean vs run
χ² / ndf 2.911e+04 / 80
p0 −0.4375 ± 1.147e−05
−0.425
−0.43
−0.435
−0.44
−0.445
pull
Entries 81
Mean 34.18
Std Dev 52.71
40
20
0
−20
−40

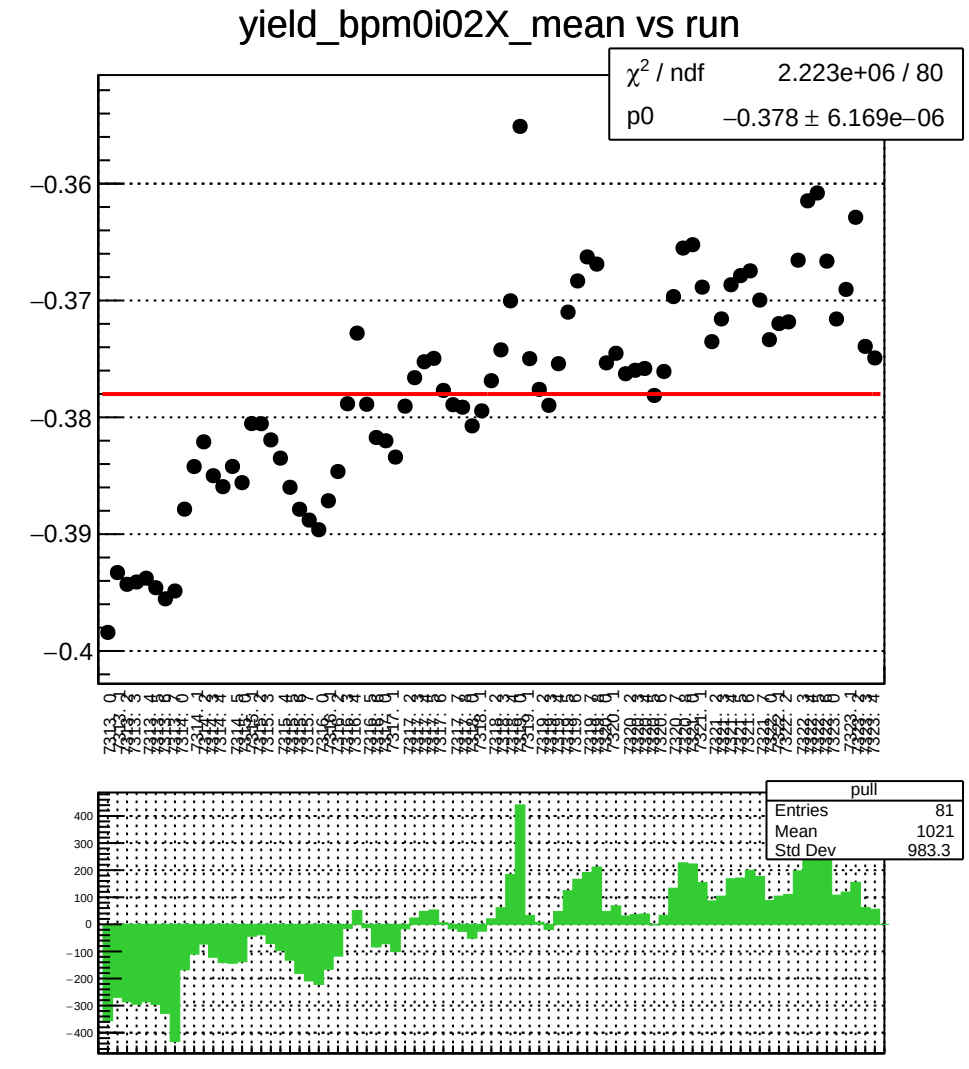

pull1D
Entries 81
Mean 2.272
Std Dev 3.83
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

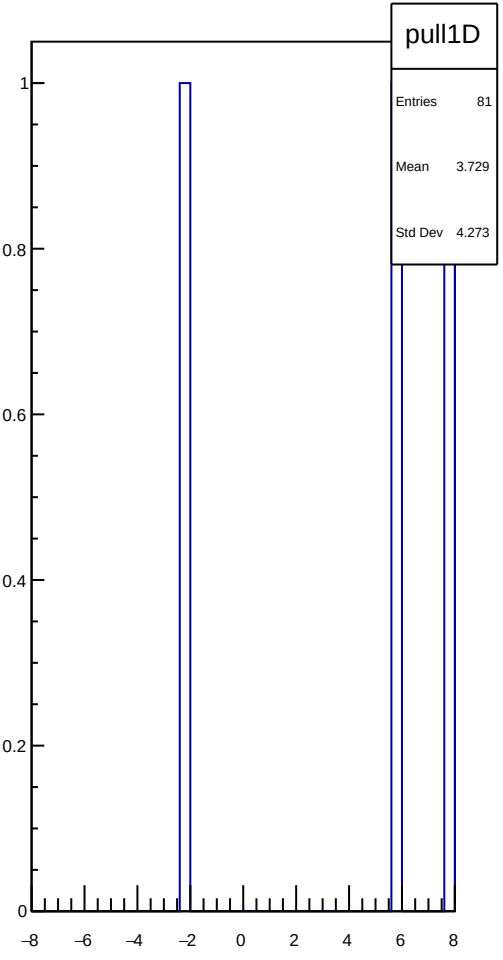

yield_bpm16X_rms vs run
χ² / ndf 1.551e+05 / 80
p0 0.009584 ± 8.113e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

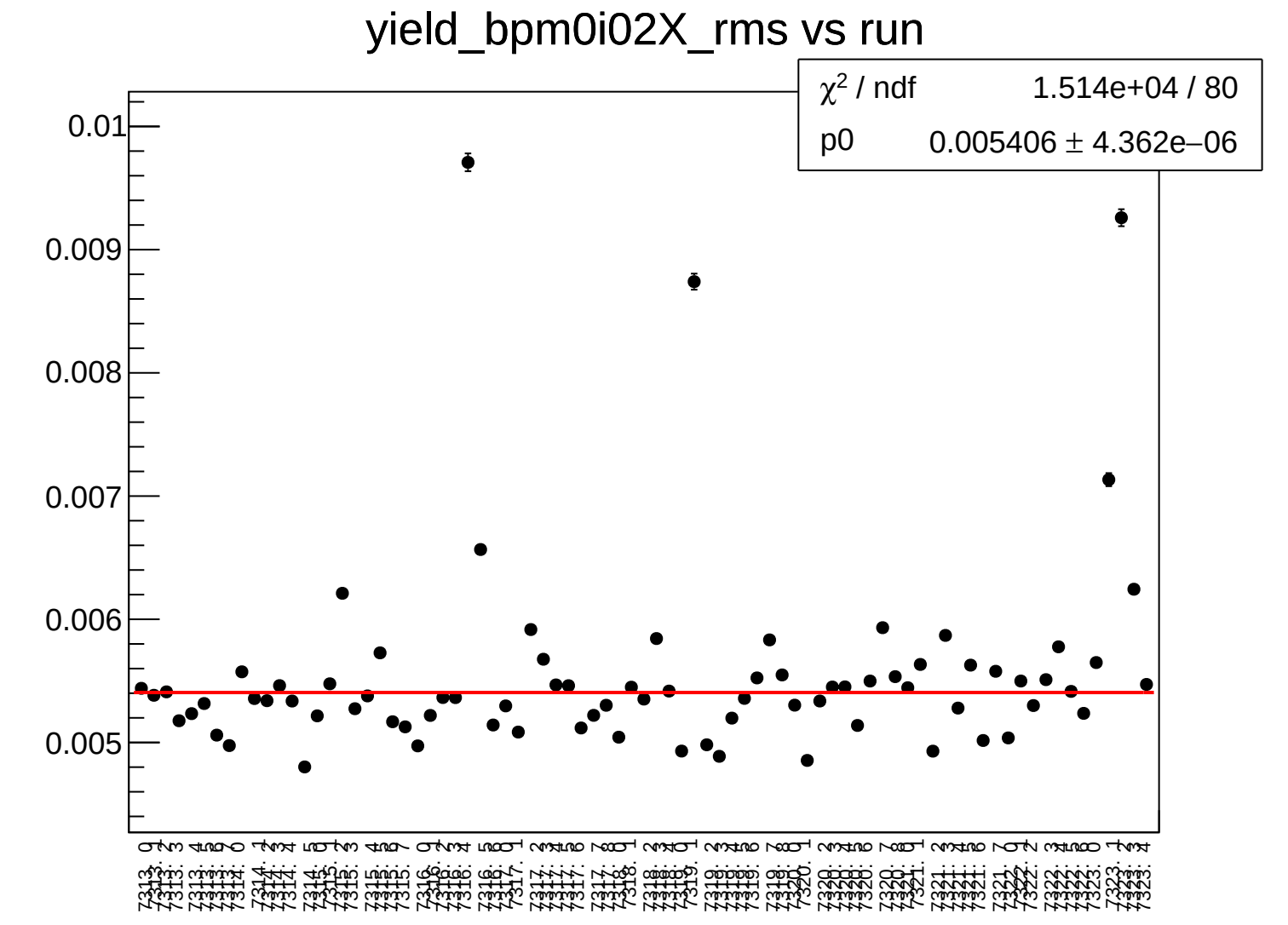

yield_bpm16Y_mean vs run
χ² / ndf 7.388e+04 / 80
p0 −0.2273 ± 5.988e−06
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
pull
Entries 81
Mean 240.6
Std Dev 207.3
60
40
20
0
−20
−40
−60

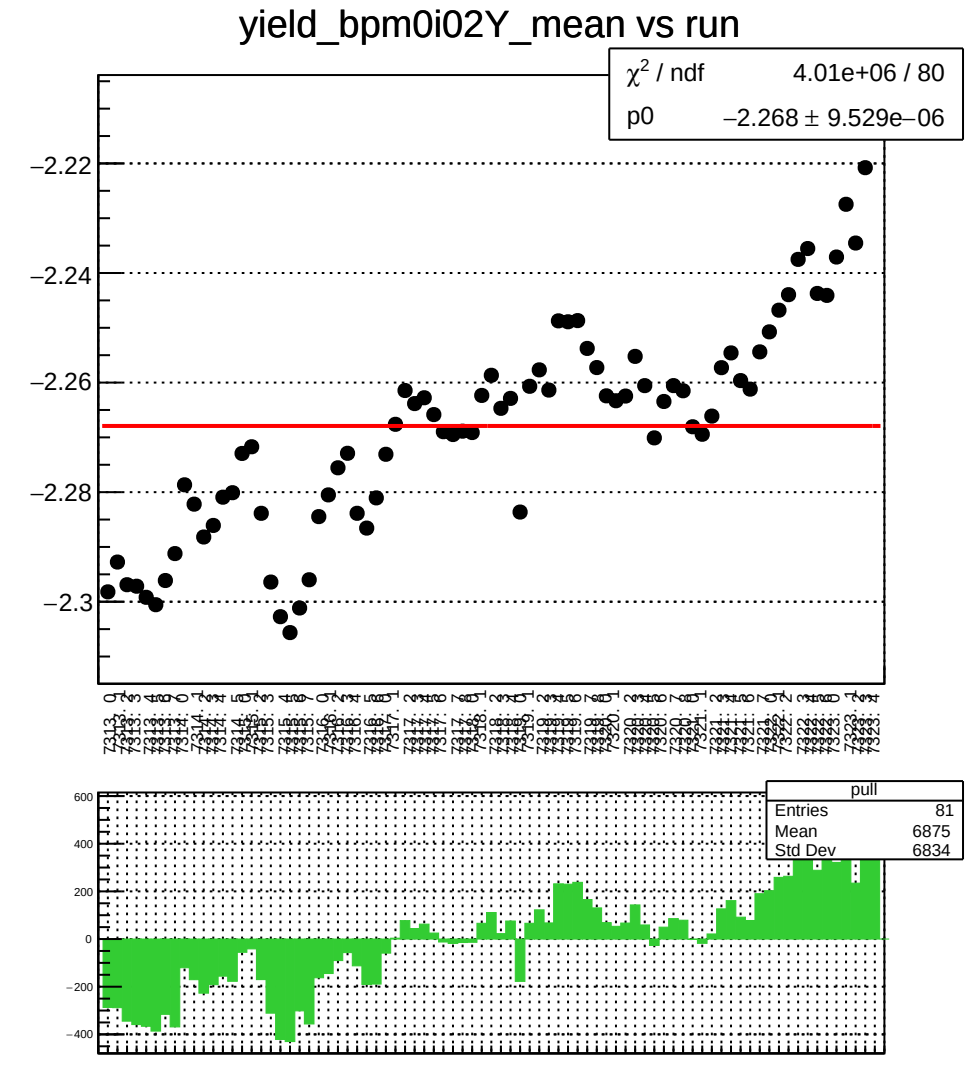

pull1D
Entries 81
Mean −0.7577
Std Dev 3.399
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

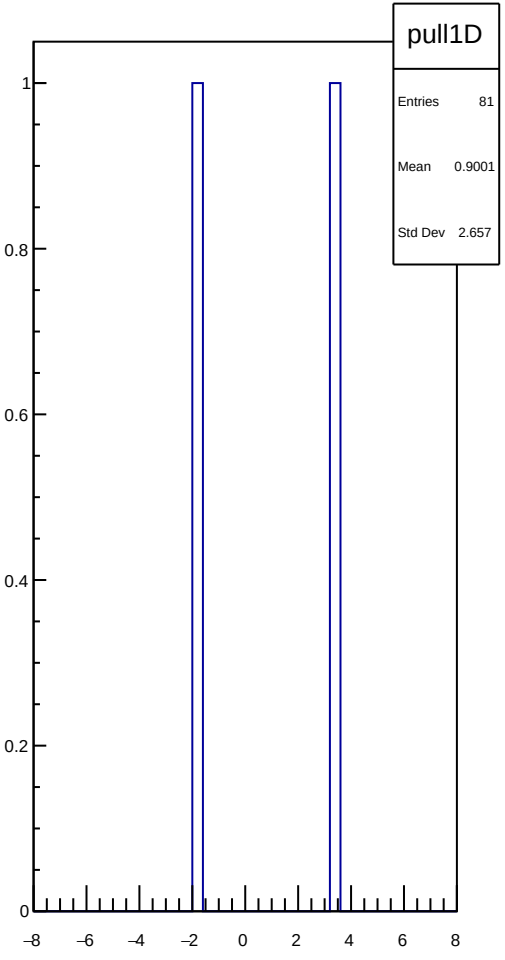

yield_bpm16Y_rms vs run
χ² / ndf 3.994e+04 / 80
p0 0.005205 ± 4.234e−06
0.009
0.008
0.007
0.006
0.005
0.004

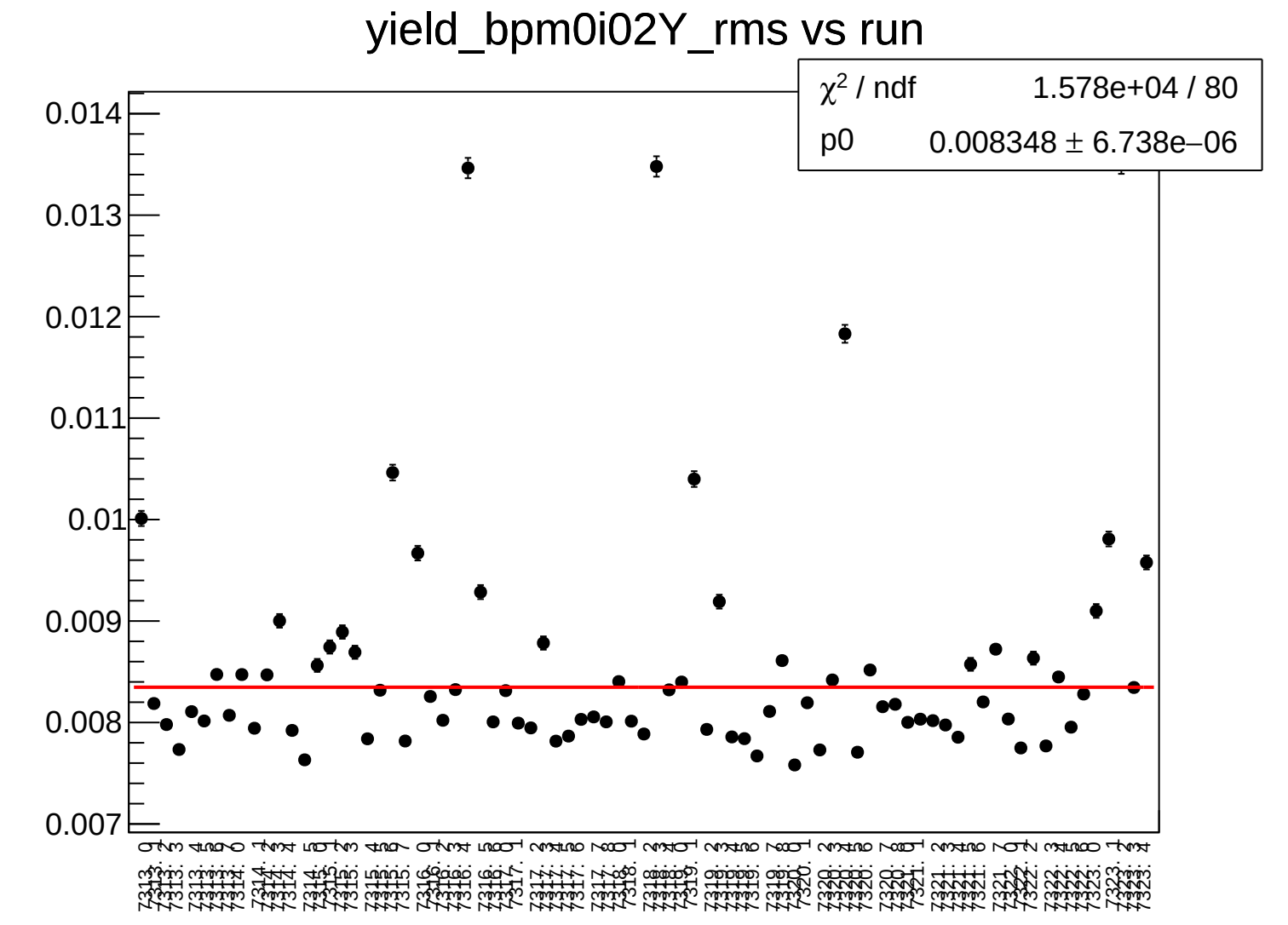

yield_bpm0i02X_mean vs run
χ² / ndf 2.223e+06 / 80
p0 −0.378 ± 6.169e−06
−0.36
−0.37
−0.38
−0.39
−0.4
pull
Entries 81
Mean 1021
Std Dev 983.3
400
300
200
100
0
−100
−200
−300
−400

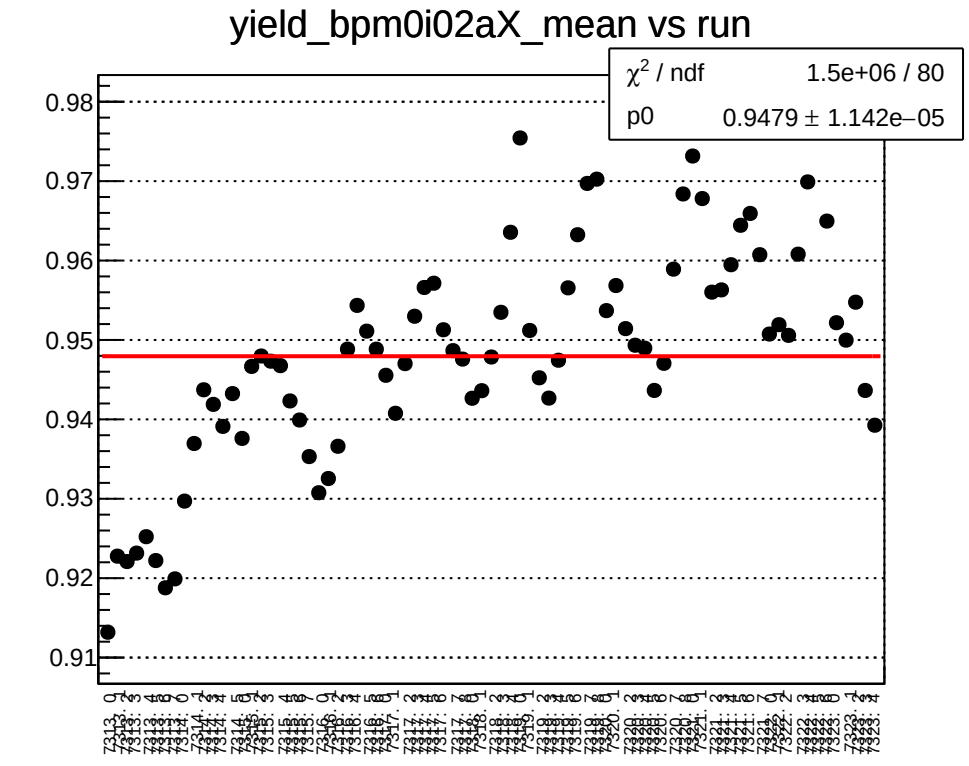

pull1D
Entries 81
Mean 3.729
Std Dev 4.273
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

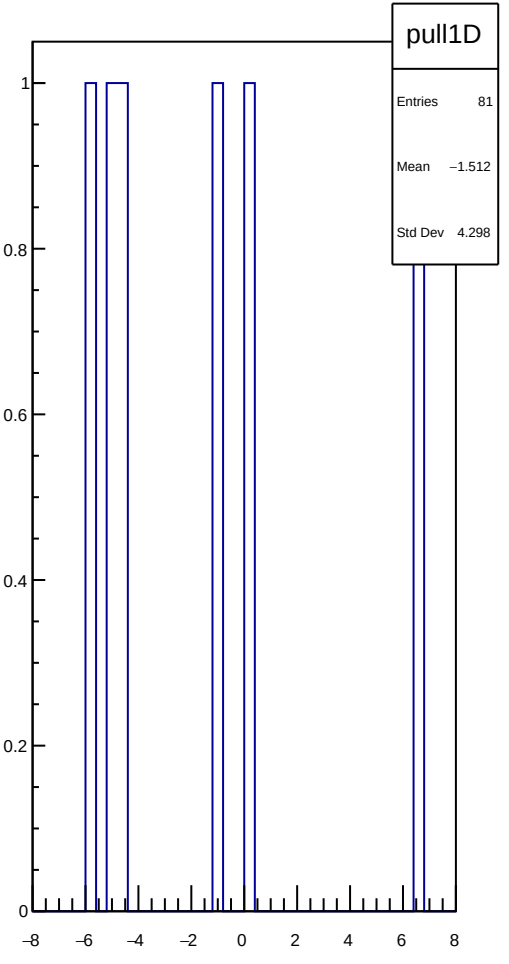

yield_bpm0i02X_rms vs run
χ^2 / ndf 1.514e+04 / 80
p0 0.005406 ± 4.362e−06
0.01
0.009
0.008
0.007
0.006
0.005

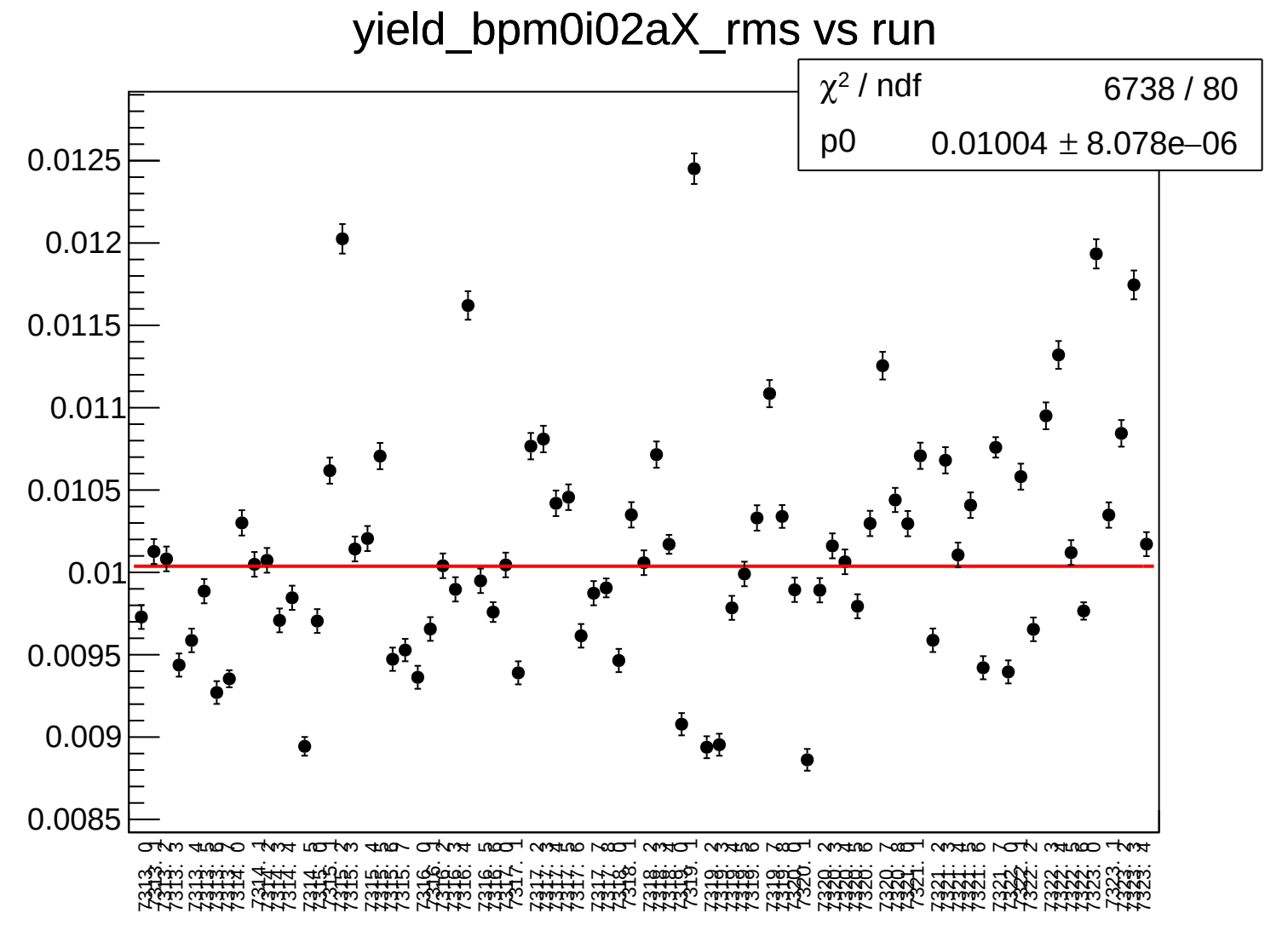

yield_bpm0i02Y_mean vs run
χ² / ndf 4.01e+06 / 80
p0 −2.268 ± 9.529e−06
−2.22
−2.24
−2.26
−2.28
−2.3
pull
Entries 81
Mean 6875
Std Dev 6834
600
400
200
0
−200
−400

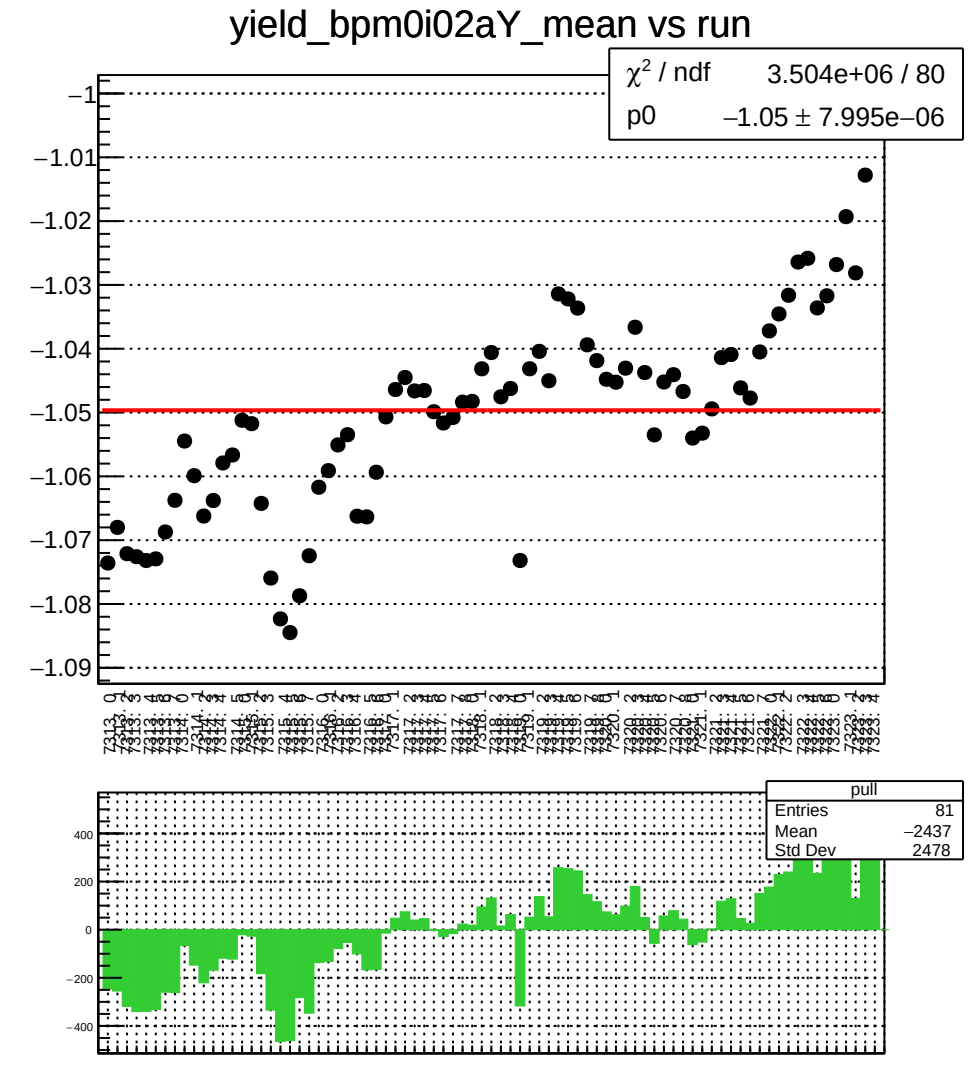

pull1D
Entries 81
Mean 0.9001
Std Dev 2.657
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

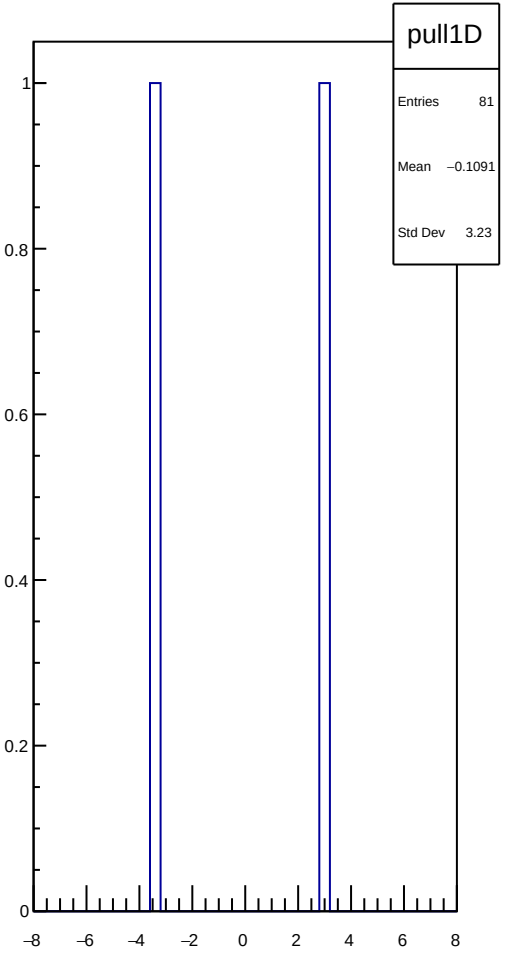

yield_bpm0i02Y_rms vs run
χ² / ndf 1.578e+04 / 80
p0 0.008348 ± 6.738e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

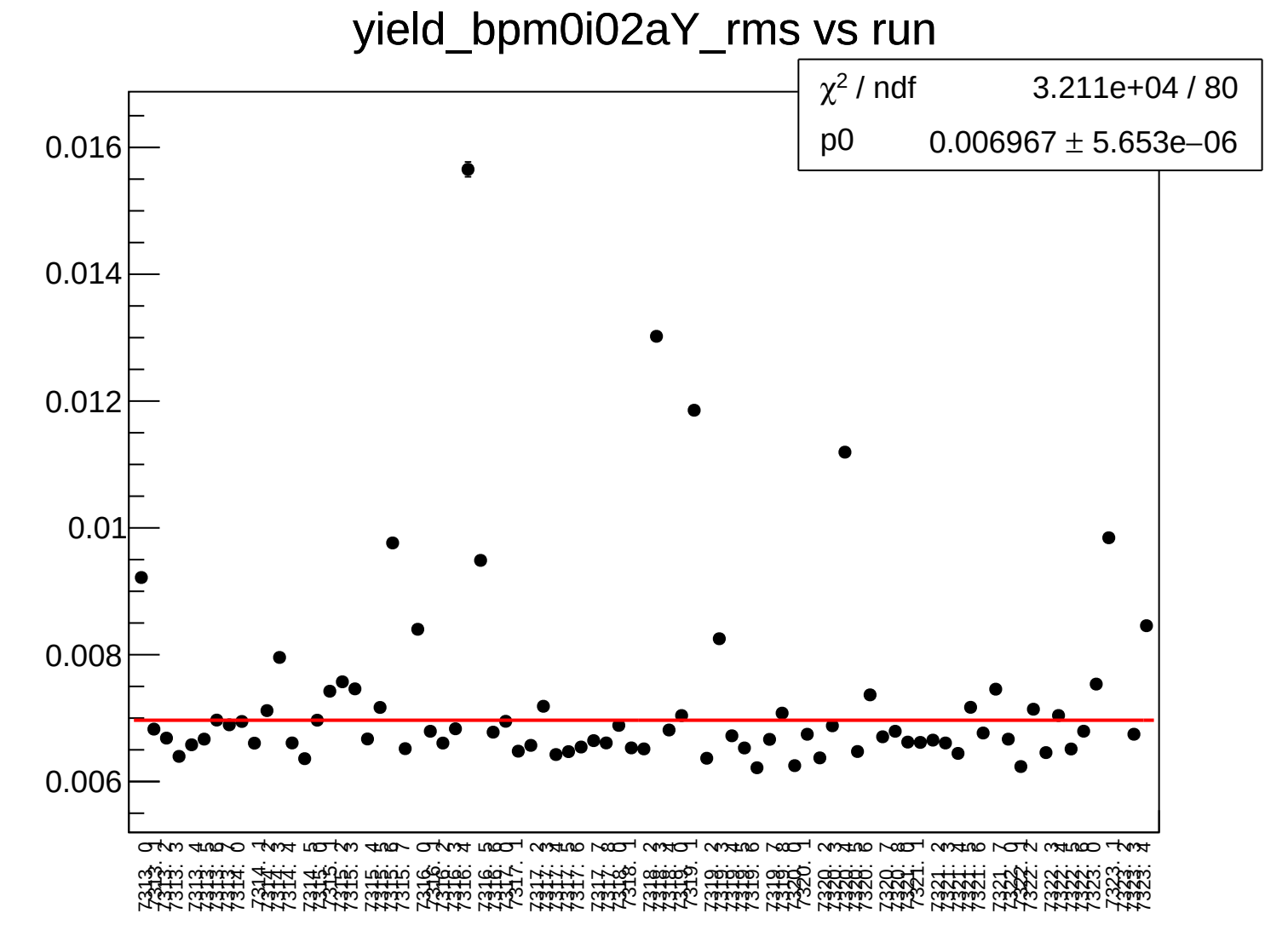

yield_bpm0i02aX_mean vs run
χ² / ndf 1.5e+06 / 80
p0 0.9479 ± 1.142e−05
0.98
0.97
0.96
0.95
0.94
0.93
0.92
0.91
pull
Entries 81
Mean 1197
Std Dev 1162
300
200
100
0
−100
−200
−300
−400

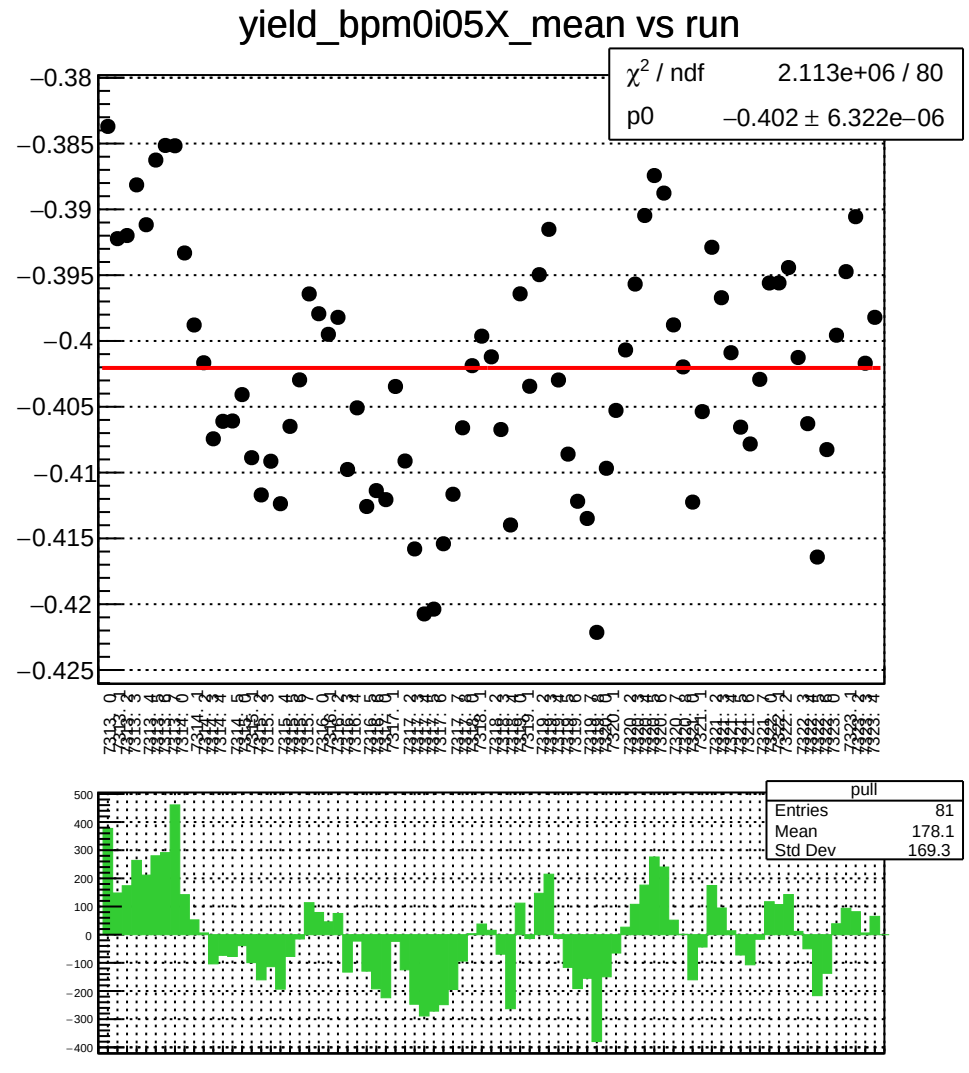

pull1D
Entries 81
Mean −1.512
Std Dev 4.298
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

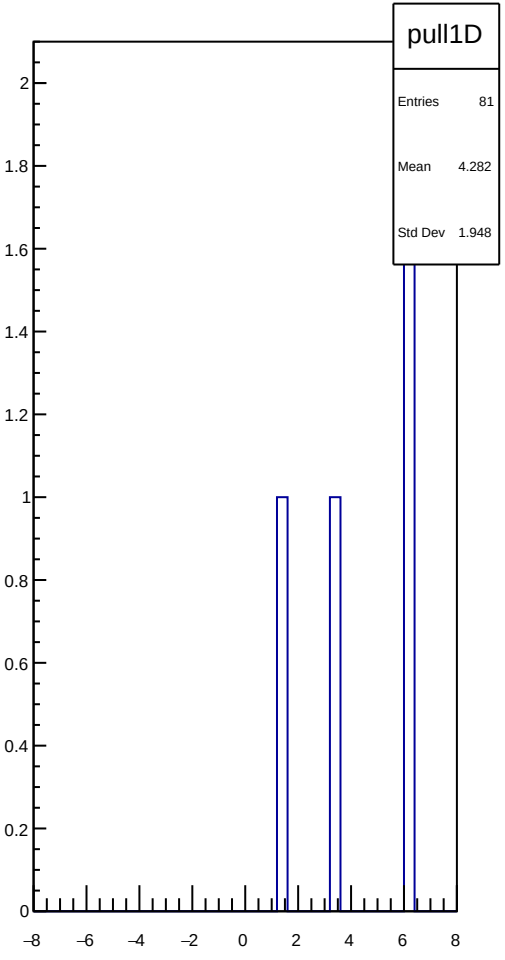

yield_bpm0i02aX_rms vs run
χ² / ndf 6738 / 80
p0 0.01004 ± 8.078e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

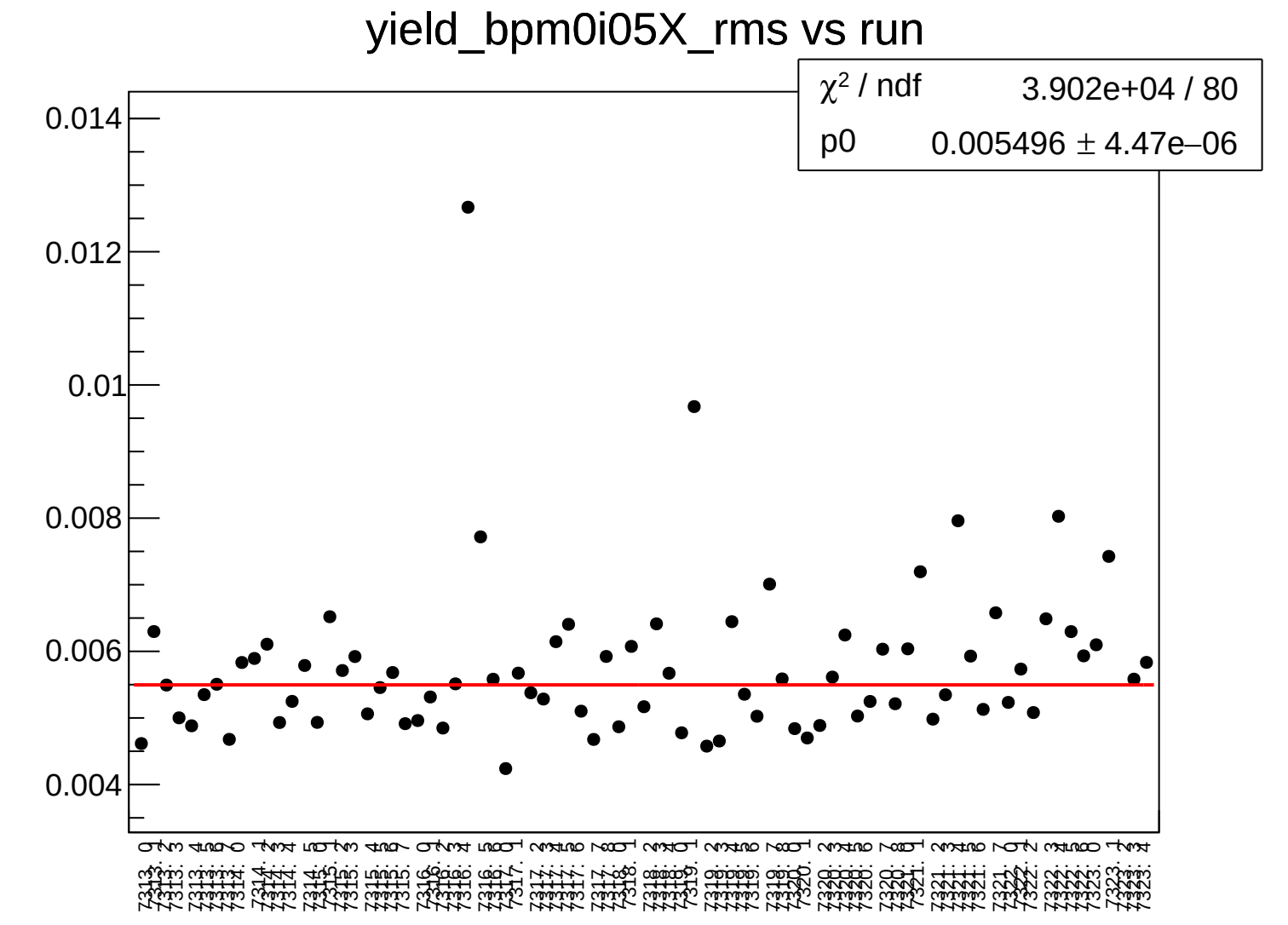

yield_bpm0i02aY_mean vs run
χ² / ndf 3.504e+06 / 80
p0 −1.05 ± 7.995e−06
pull
Entries 81
Mean −2437
Std Dev 2478

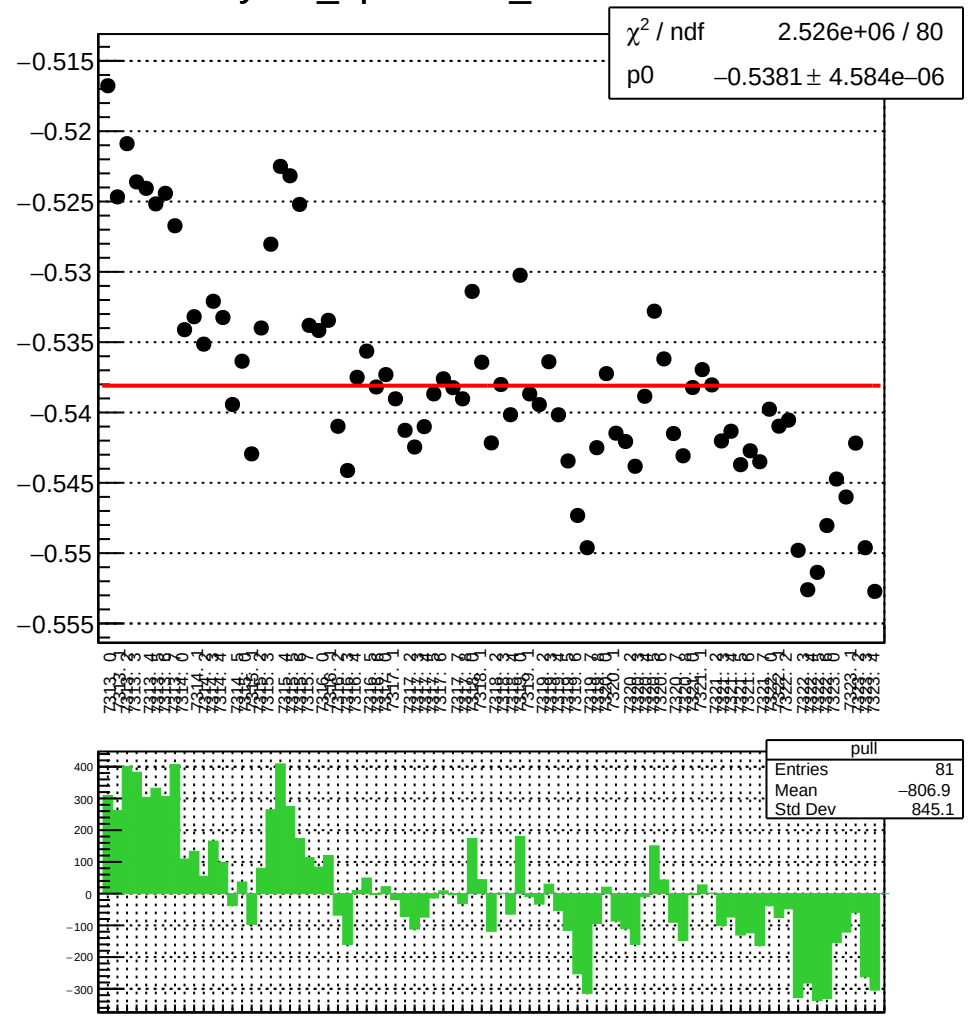

pull1D
Entries 81
Mean −0.1091
Std Dev 3.23

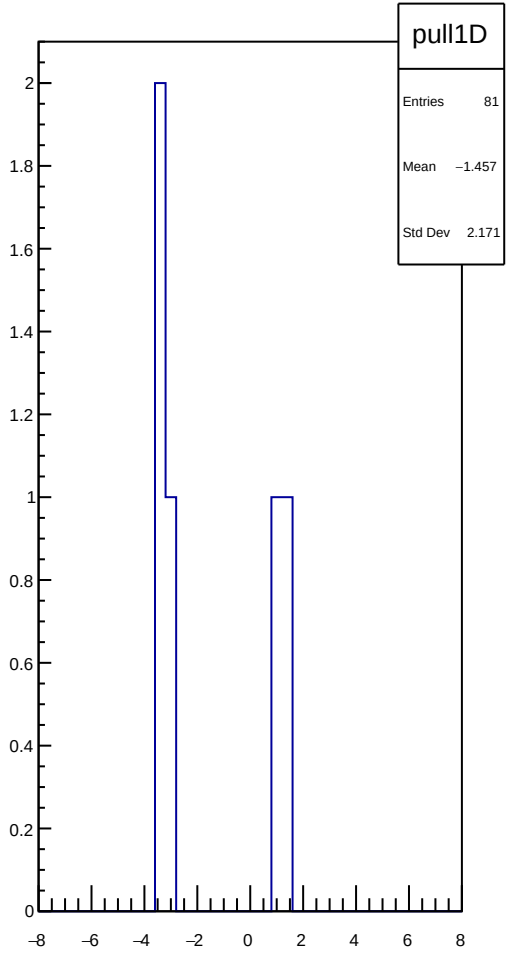

yield_bpm0i02aY_rms vs run
χ² / ndf 3.211e+04 / 80
p0 0.006967 ± 5.653e−06
0.016
0.014
0.012
0.01
0.008
0.006

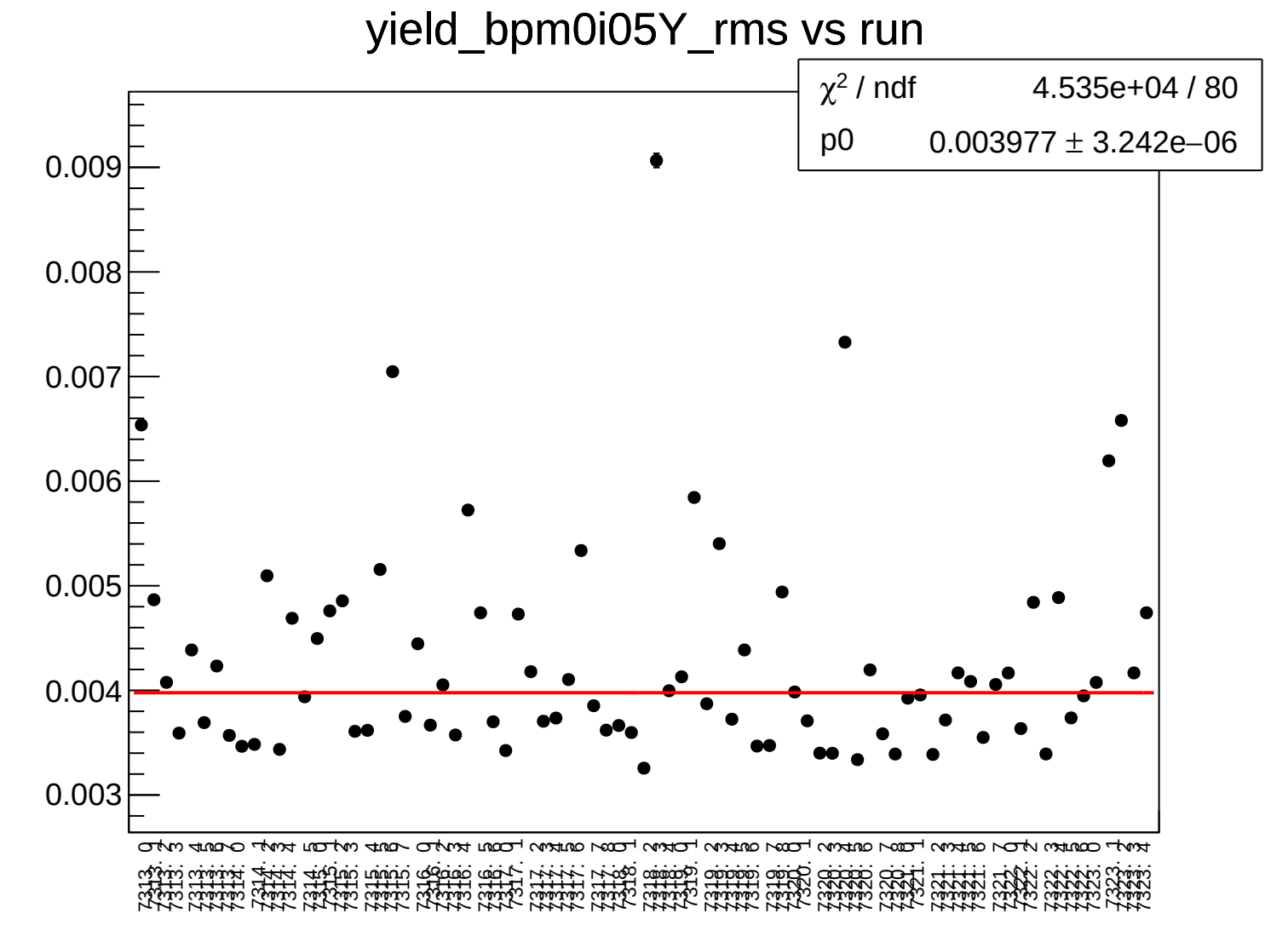

yield_bpm0i05X_mean vs run
χ² / ndf 2.113e+06 / 80
p0 −0.402 ± 6.322e−06
pull
Entries 81
Mean 178.1
Std Dev 169.3

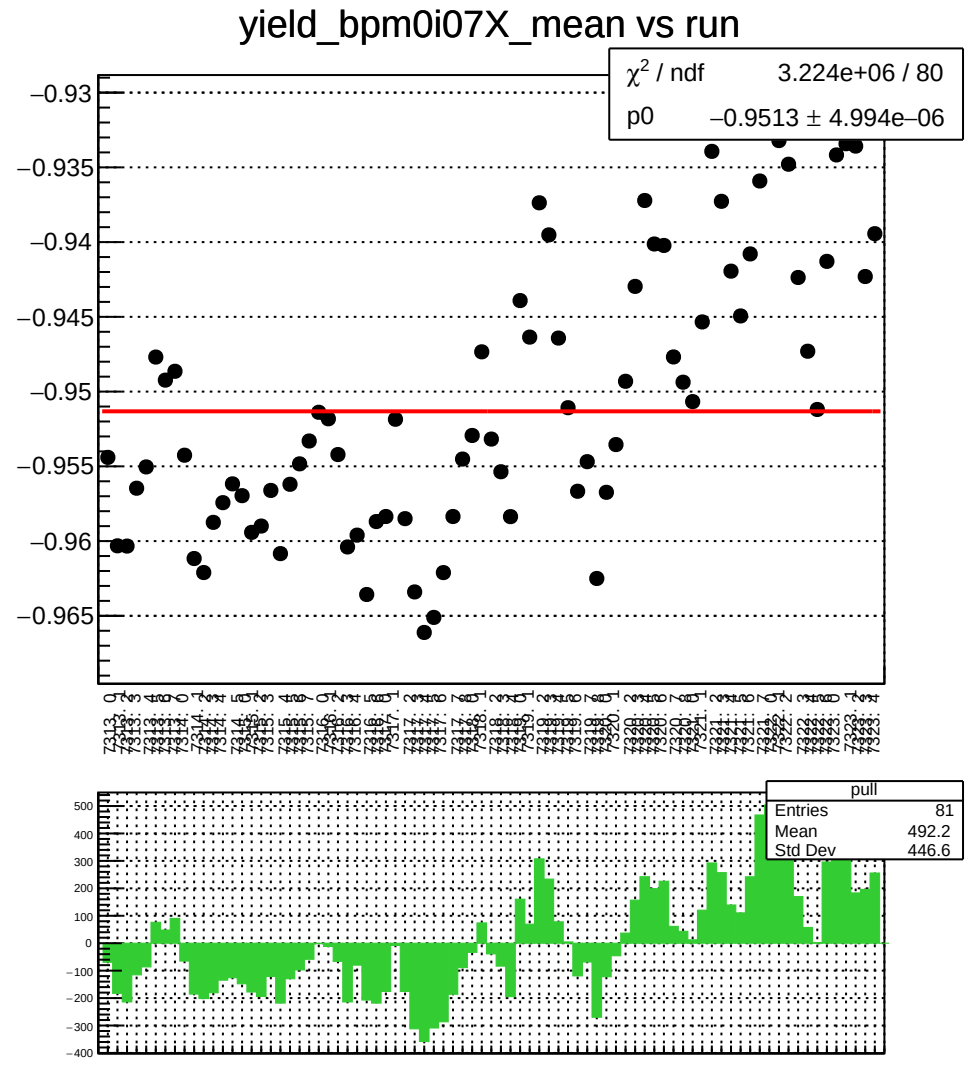

pull1D
Entries 81
Mean 4.282
Std Dev 1.948

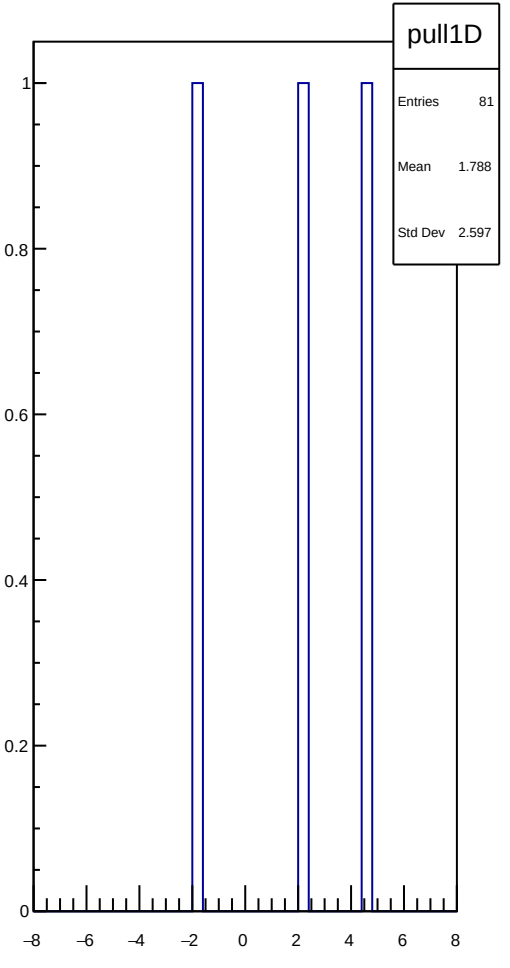

yield_bpm0i05X_rms vs run
χ² / ndf 3.902e+04 / 80
p0 0.005496 ± 4.47e–06
0.014
0.012
0.01
0.008
0.006
0.004

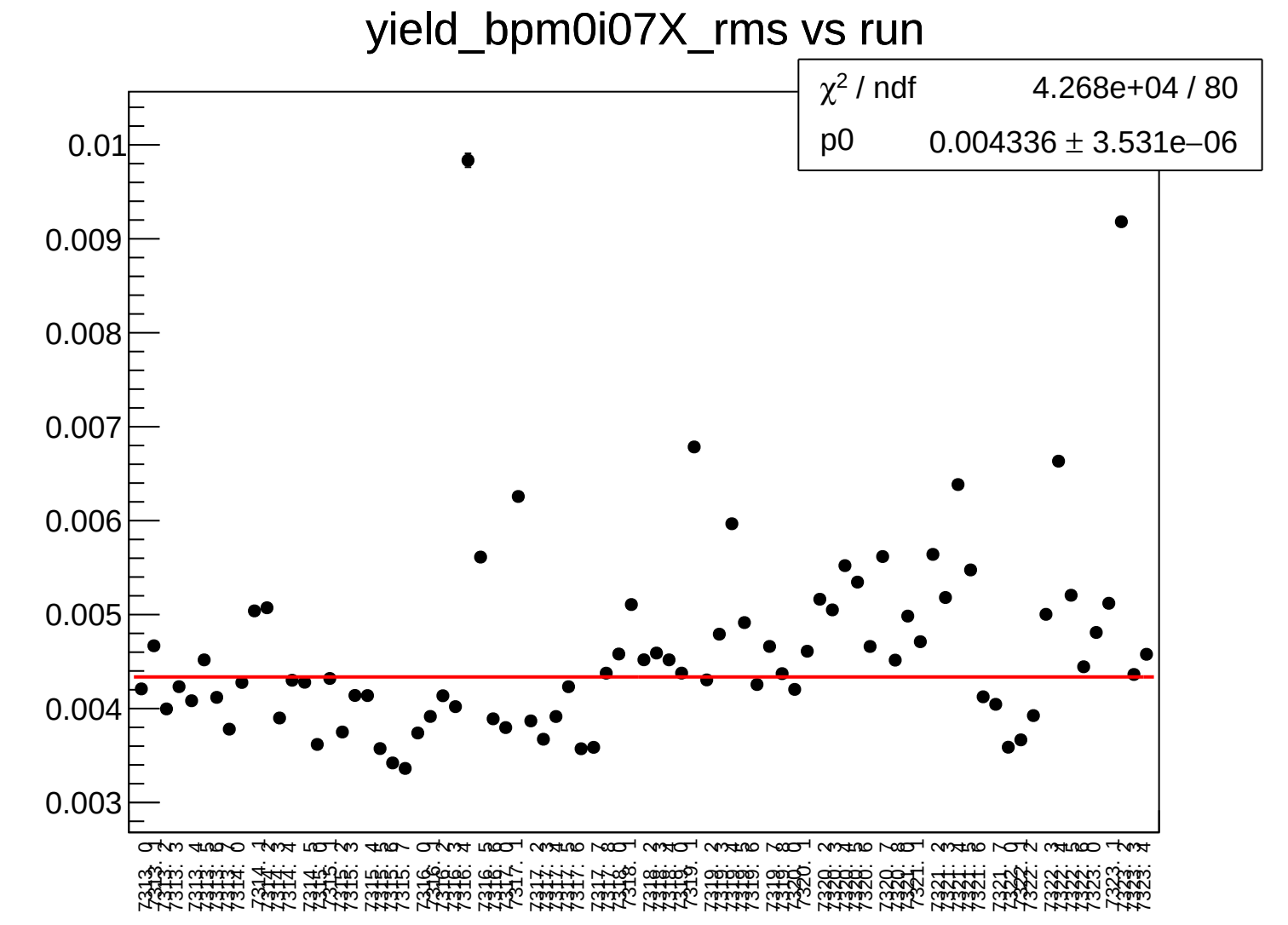

yield_bpm0i05Y_mean vs run
χ² / ndf 2.526e+06 / 80
p0 −0.5381 ± 4.584e−06
pull
Entries 81
Mean −806.9
Std Dev 845.1

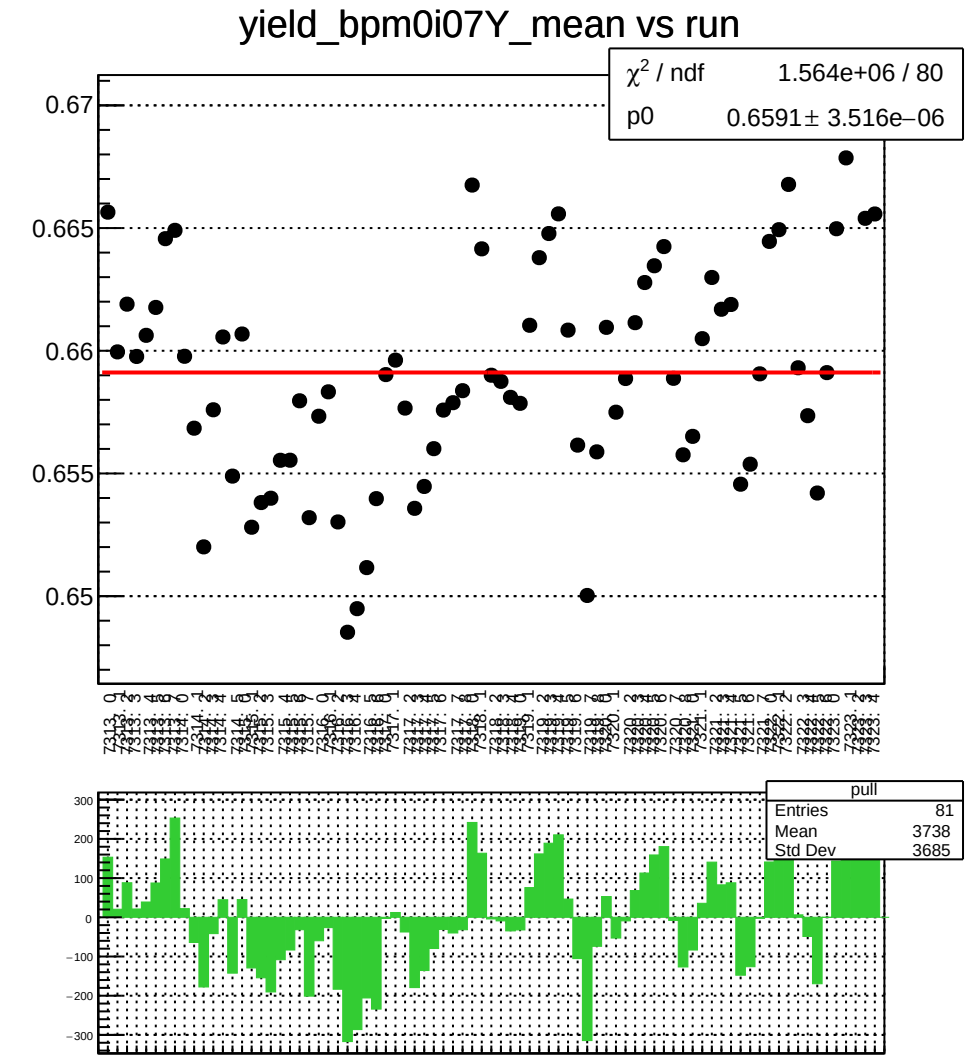

pull1D
Entries 81
Mean −1.457
Std Dev 2.171

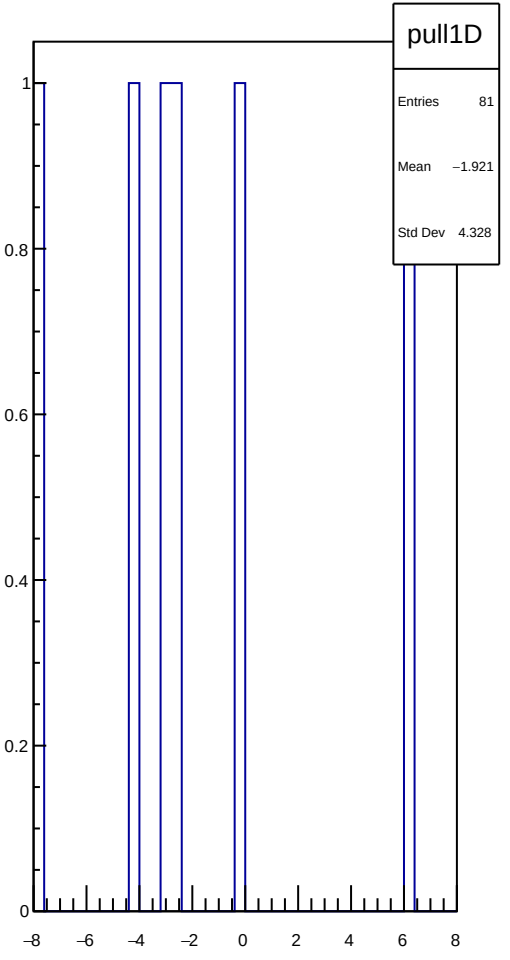

yield_bpm0i05Y_rms vs run
χ² / ndf 4.535e+04 / 80
p0 0.003977 ± 3.242e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

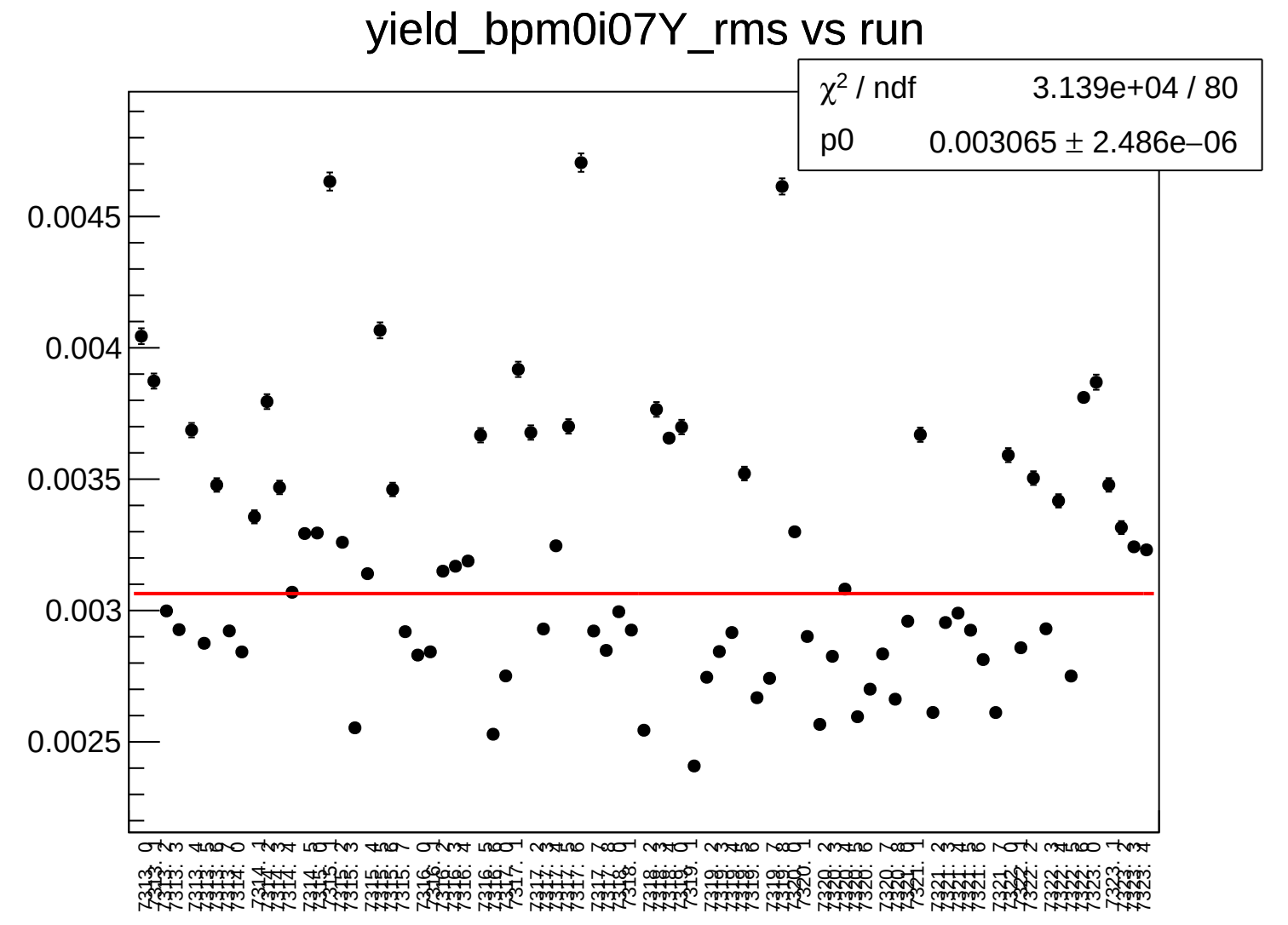

yield_bpm0i07X_mean vs run
χ² / ndf 3.224e+06 / 80
p0 −0.9513 ± 4.994e−06
−0.93
−0.935
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
pull
Entries 81
Mean 492.2
Std Dev 446.6
500
400
300
200
100
0
−100
−200
−300
−400

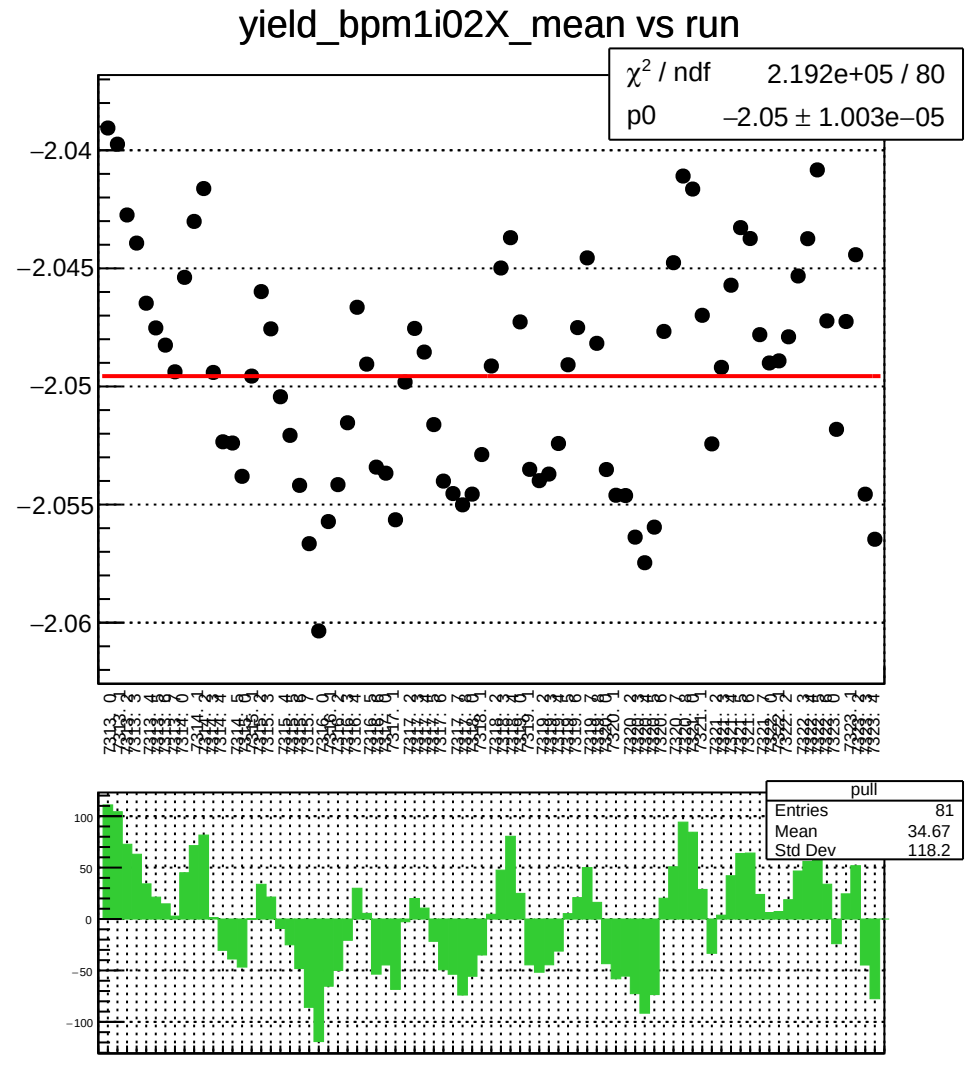

pull1D
Entries 81
Mean 1.788
Std Dev 2.597
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

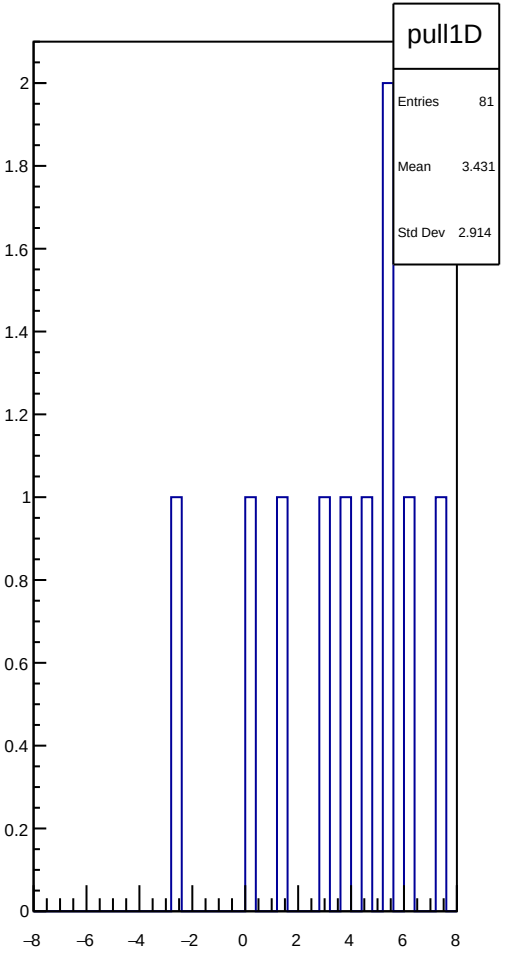

yield_bpm0i07X_rms vs run
χ^2 / ndf 4.268e+04 / 80
p0 0.004336 ± 3.531e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

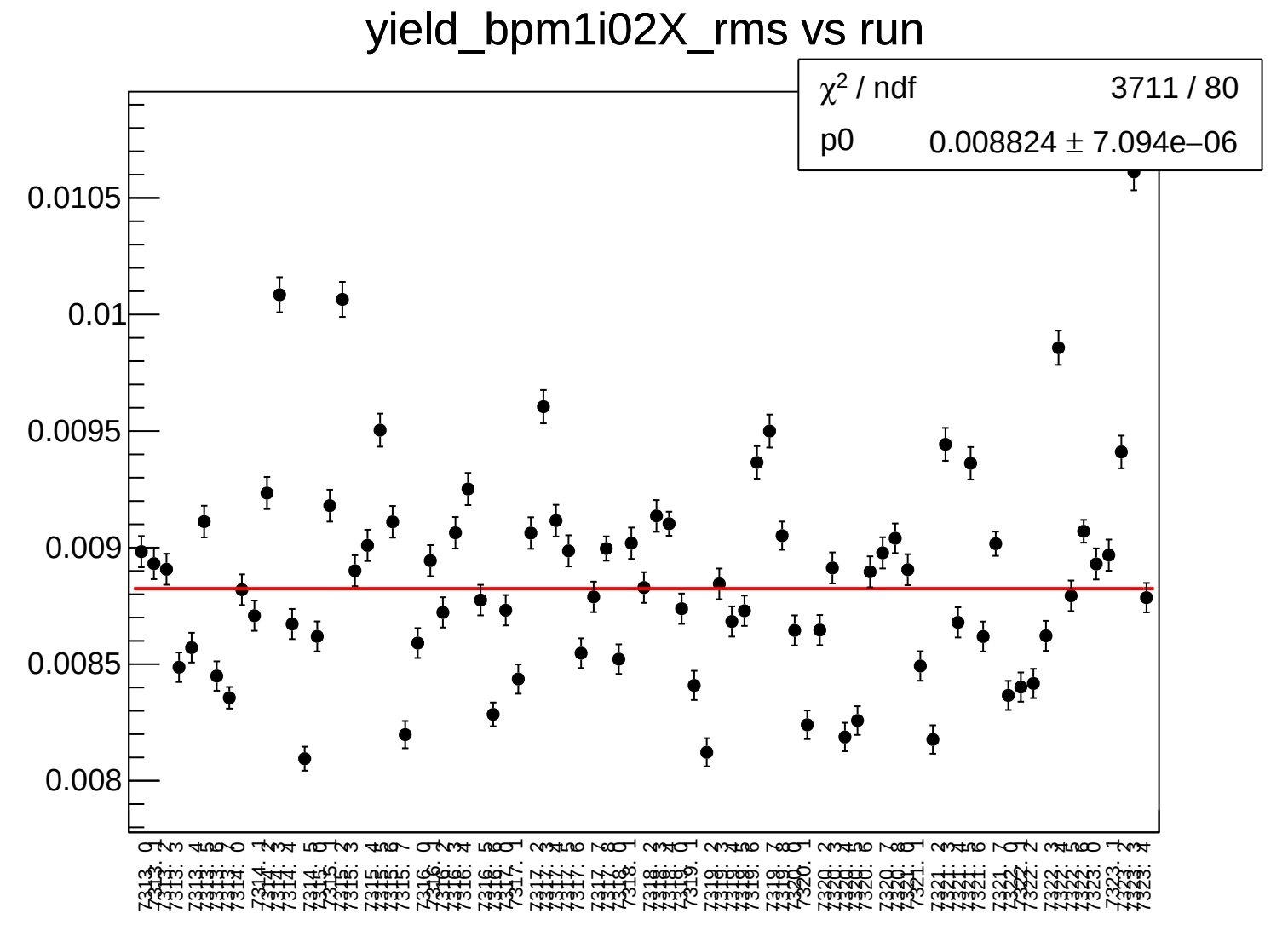

yield_bpm0i07Y_mean vs run
χ² / ndf 1.564e+06 / 80
p0 0.6591 ± 3.516e−06
0.67
0.665
0.66
0.655
0.65
pull
Entries 81
Mean 3738
Std Dev 3685
300
200
100
0
−100
−200
−300

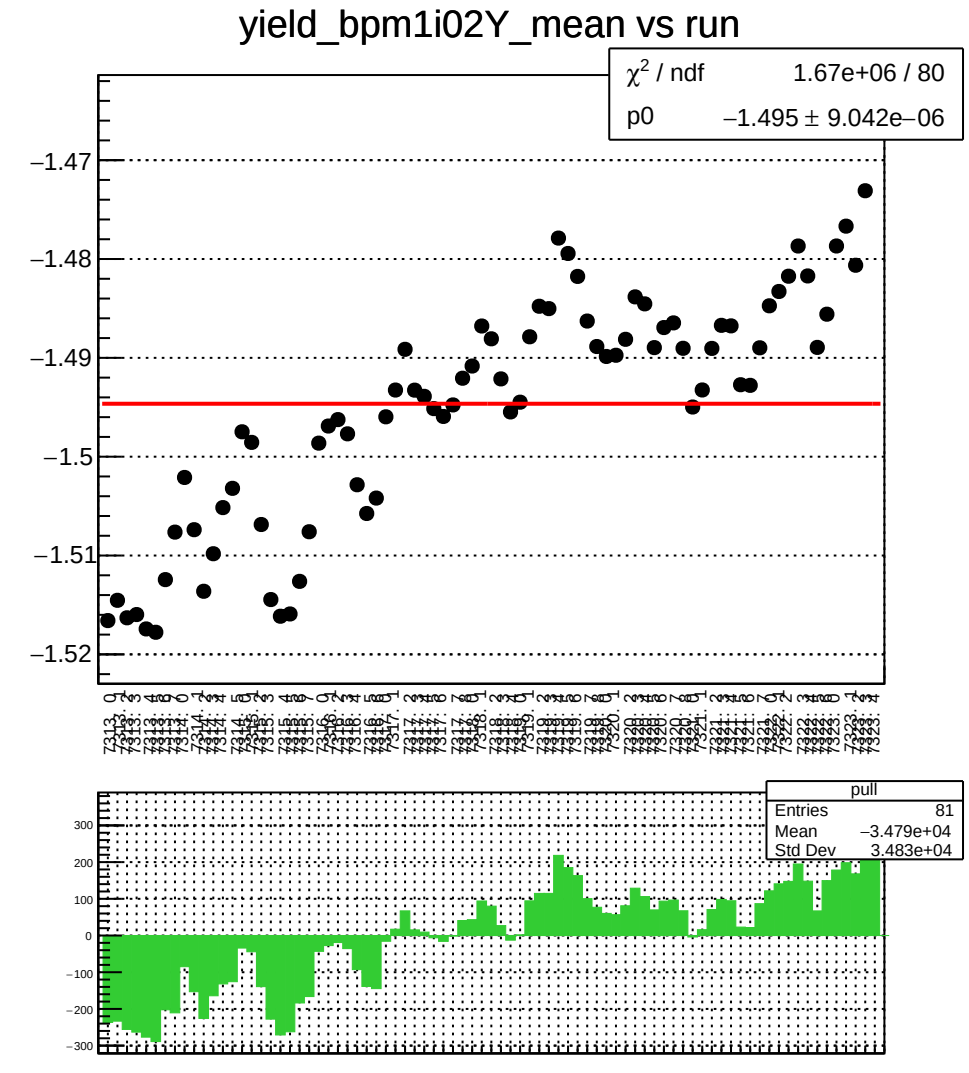

pull1D
Entries 81
Mean −1.921
Std Dev 4.328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

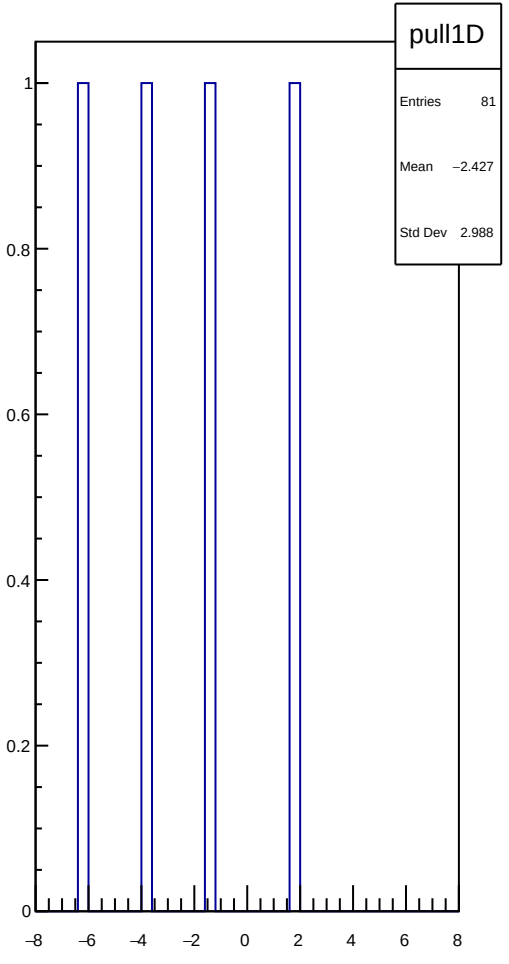

yield_bpm0i07Y_rms vs run
χ² / ndf 3.139e+04 / 80
p0 0.003065 ± 2.486e−06
0.0045
0.004
0.0035
0.003
0.0025

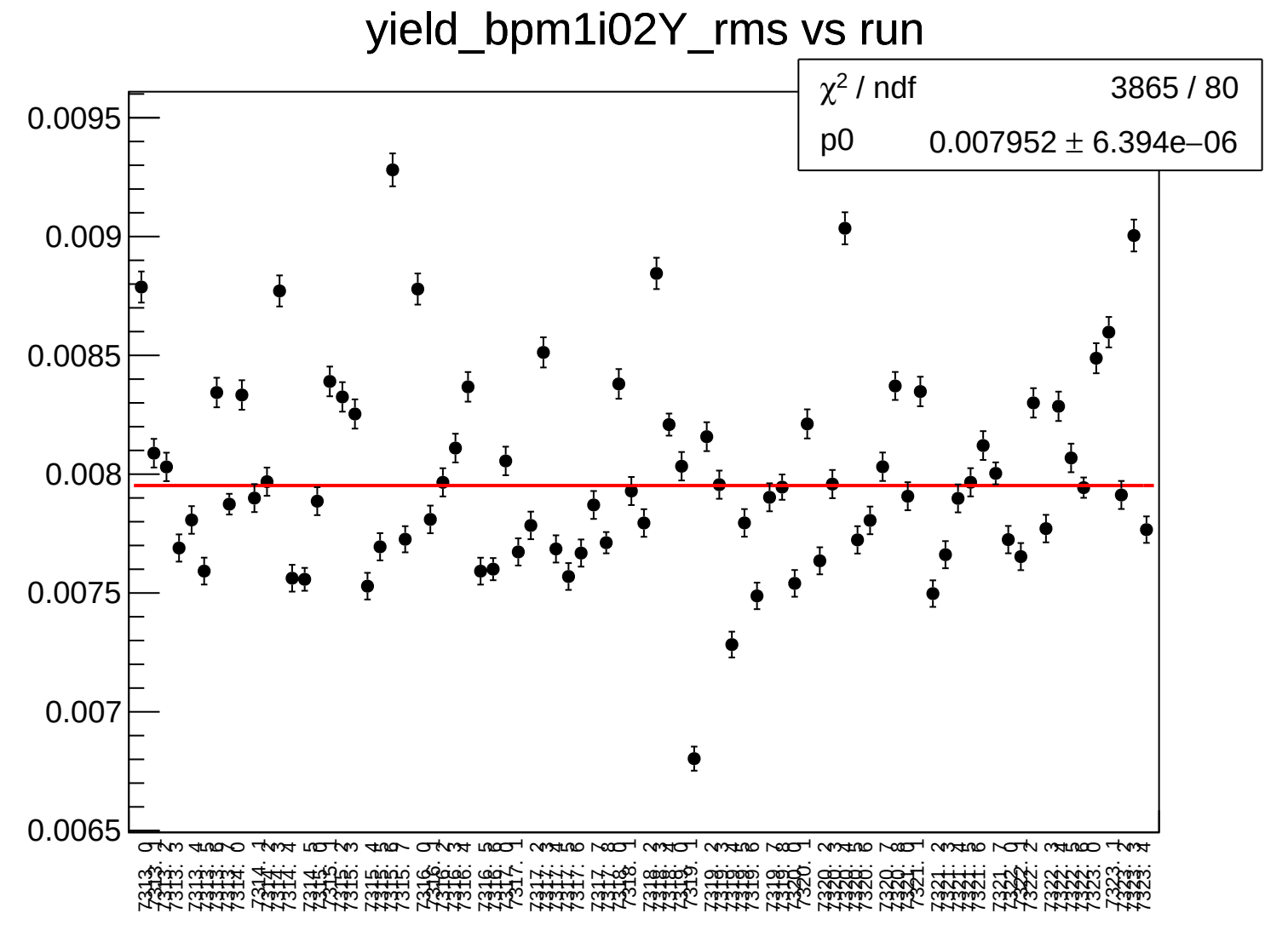

yield_bpm1i02X_mean vs run
χ² / ndf 2.192e+05 / 80
p0 −2.05 ± 1.003e−05
−2.04
−2.045
−2.05
−2.055
−2.06
pull
Entries 81
Mean 34.67
Std Dev 118.2
100
50
0
−50
−100

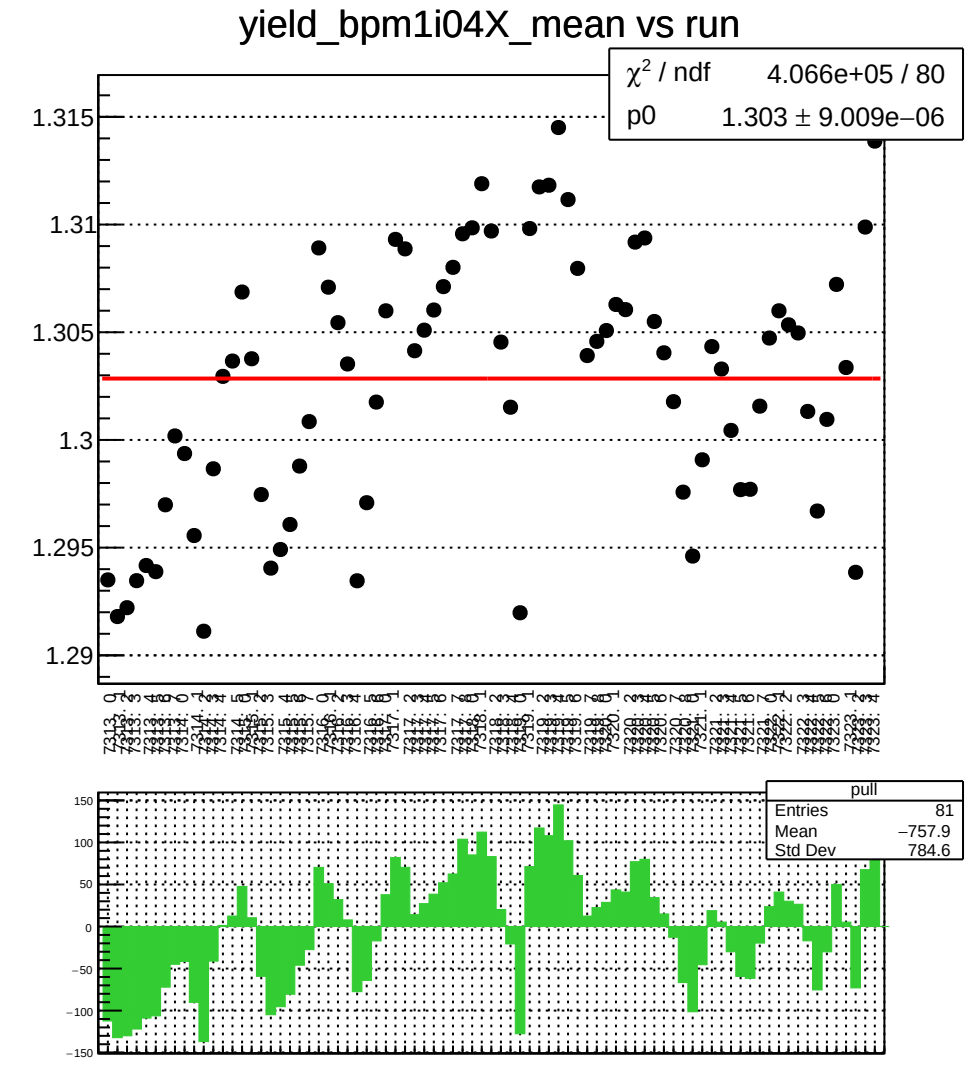

pull1D
Entries 81
Mean 3.431
Std Dev 2.914
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

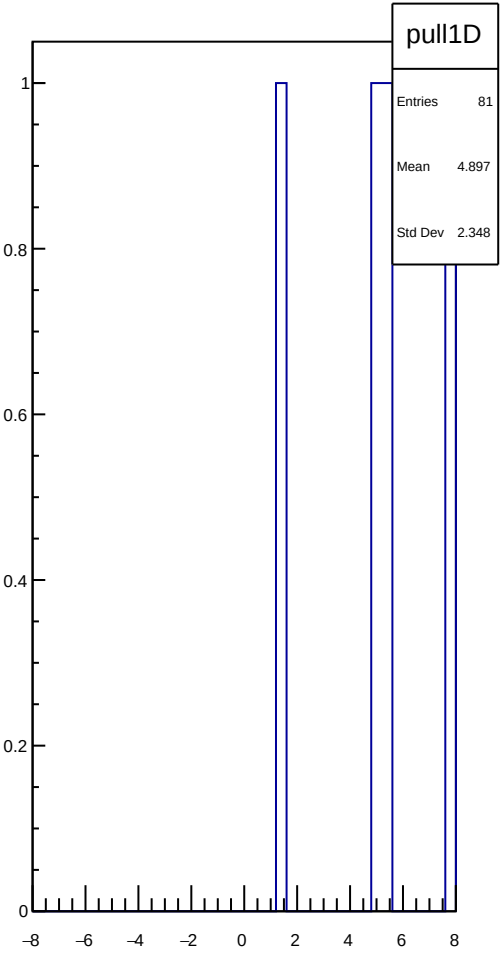

yield_bpm1i02X_rms vs run
χ² / ndf 3711 / 80
p0 0.008824 ± 7.094e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

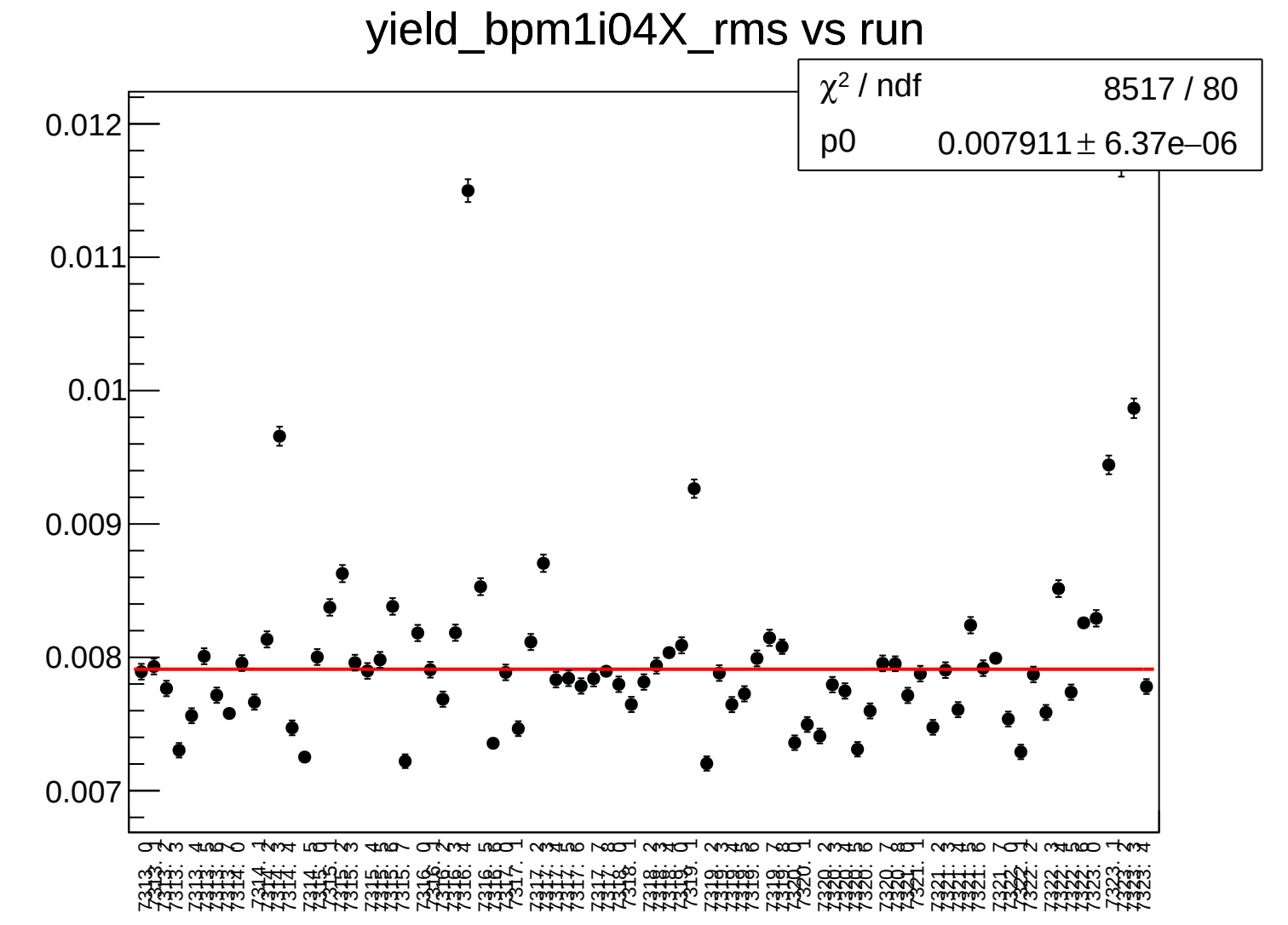

yield_bpm1i02Y_mean vs run
χ² / ndf 1.67e+06 / 80
p0 −1.495 ± 9.042e−06
−1.47
−1.48
−1.49
−1.5
−1.51
−1.52
pull
Entries 81
Mean −3.479e+04
Std Dev 3.483e+04
300
200
100
0
−100
−200
−300

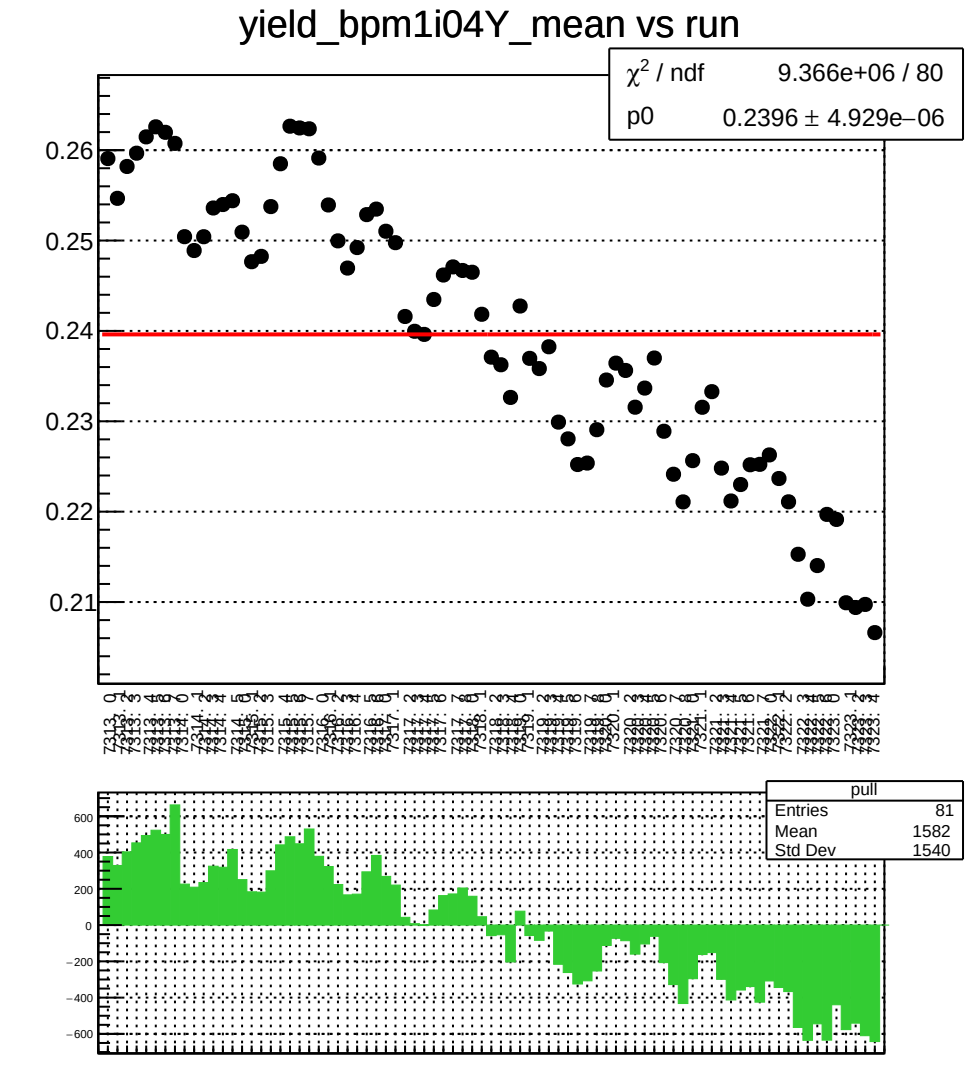

pull1D
Entries 81
Mean −2.427
Std Dev 2.988
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

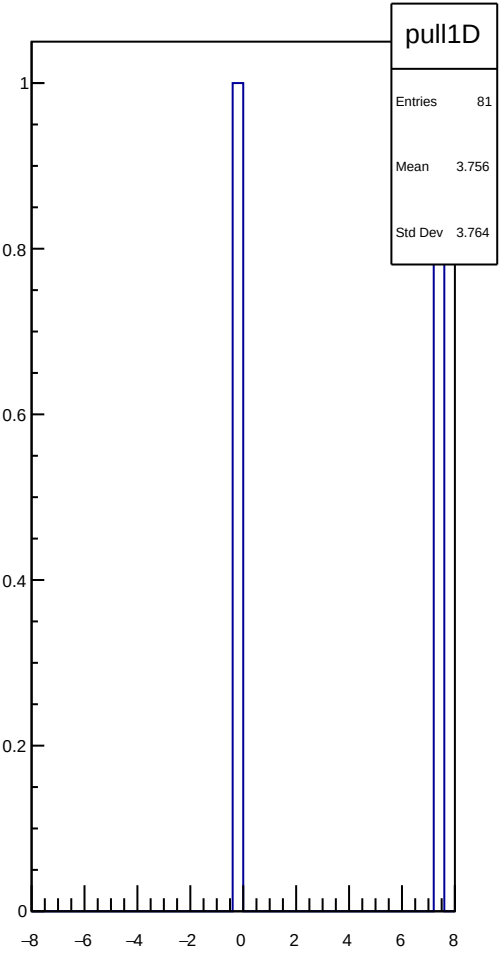

yield_bpm1i02Y_rms vs run
χ² / ndf 3865 / 80
p0 0.007952 ± 6.394e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

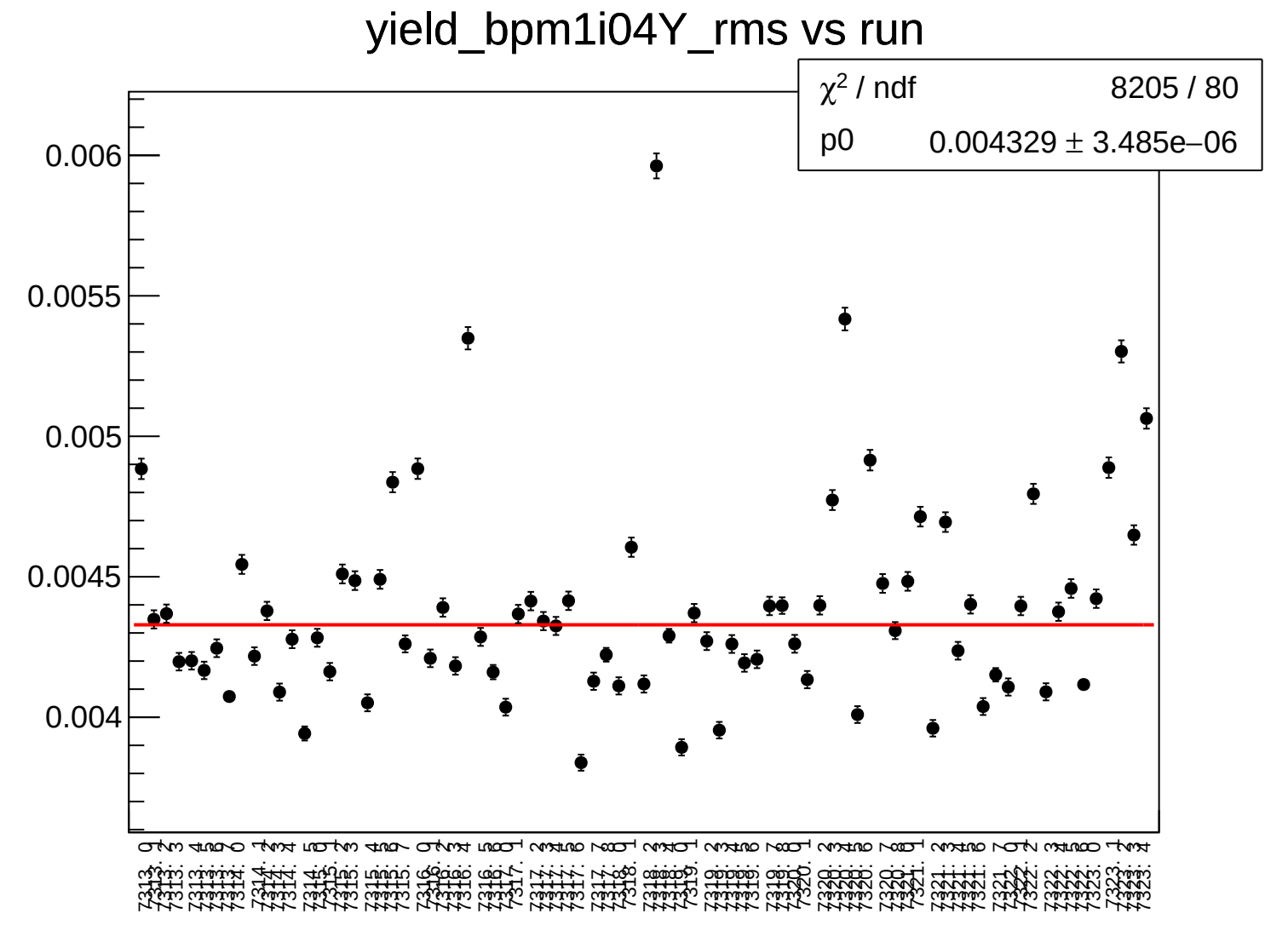

yield_bpm1i04X_mean vs run
χ² / ndf 4.066e+05 / 80
p0 1.303 ± 9.009e−06
1.315
1.31
1.305
1.3
1.295
1.29
pull
Entries 81
Mean −757.9
Std Dev 784.6
150
100
50
0
−50
−100
−150

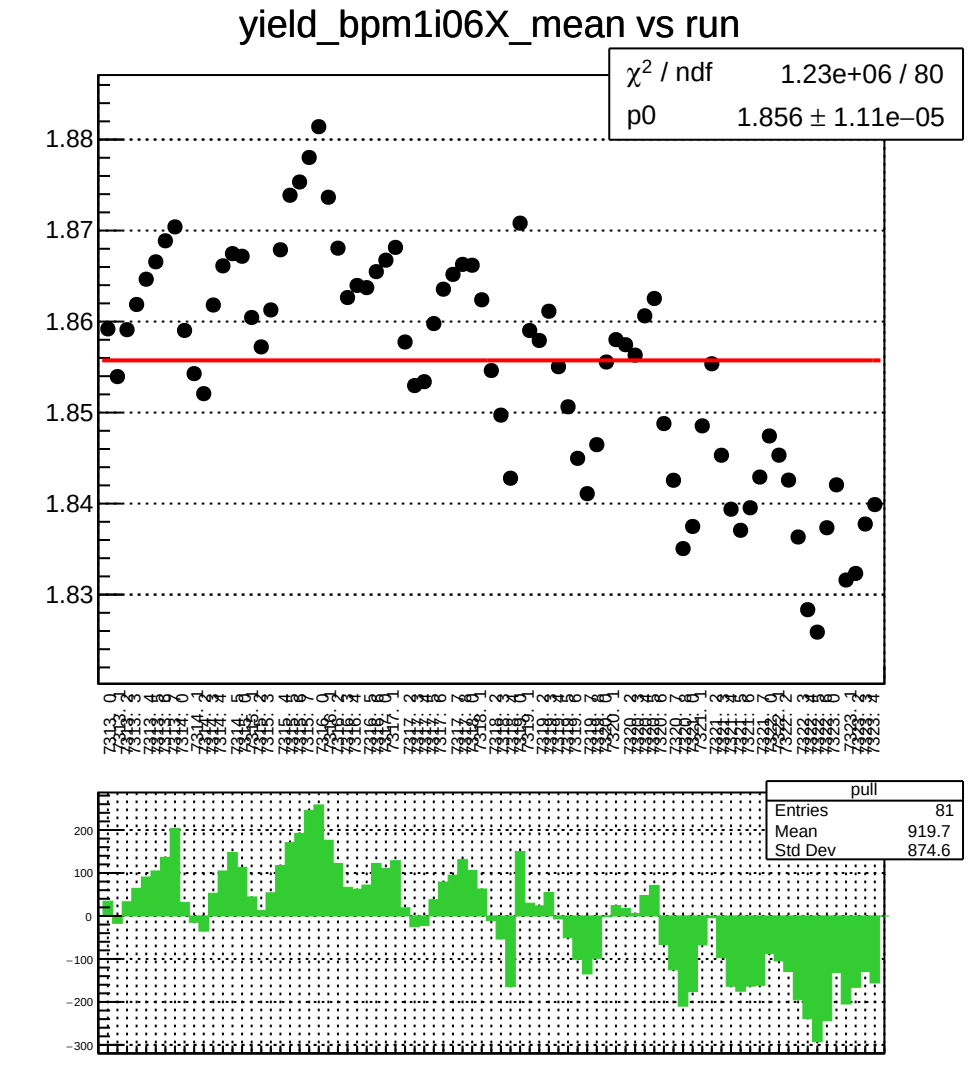

pull1D
Entries 81
Mean 4.897
Std Dev 2.348
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

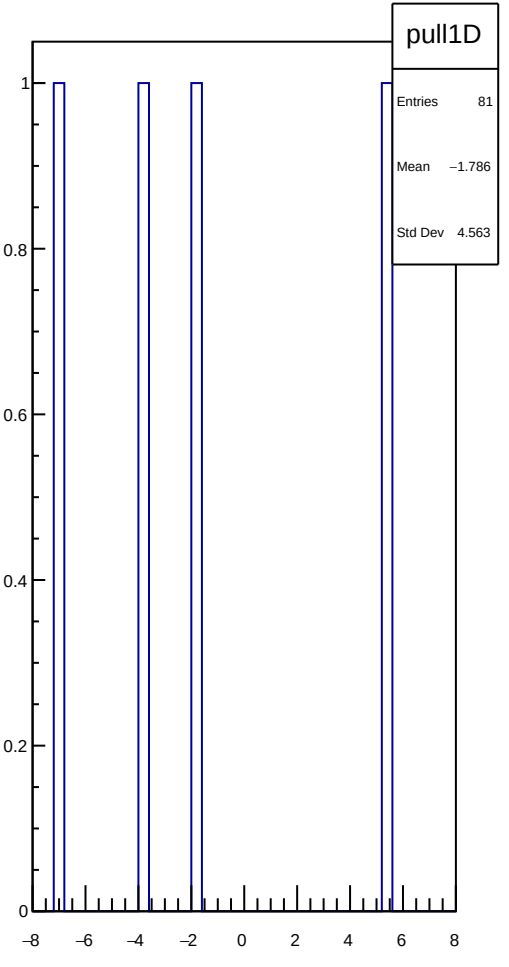

yield_bpm1i04X_rms vs run
χ² / ndf 8517 / 80
p0 0.007911 ± 6.37e–06
0.012
0.011
0.01
0.009
0.008
0.007

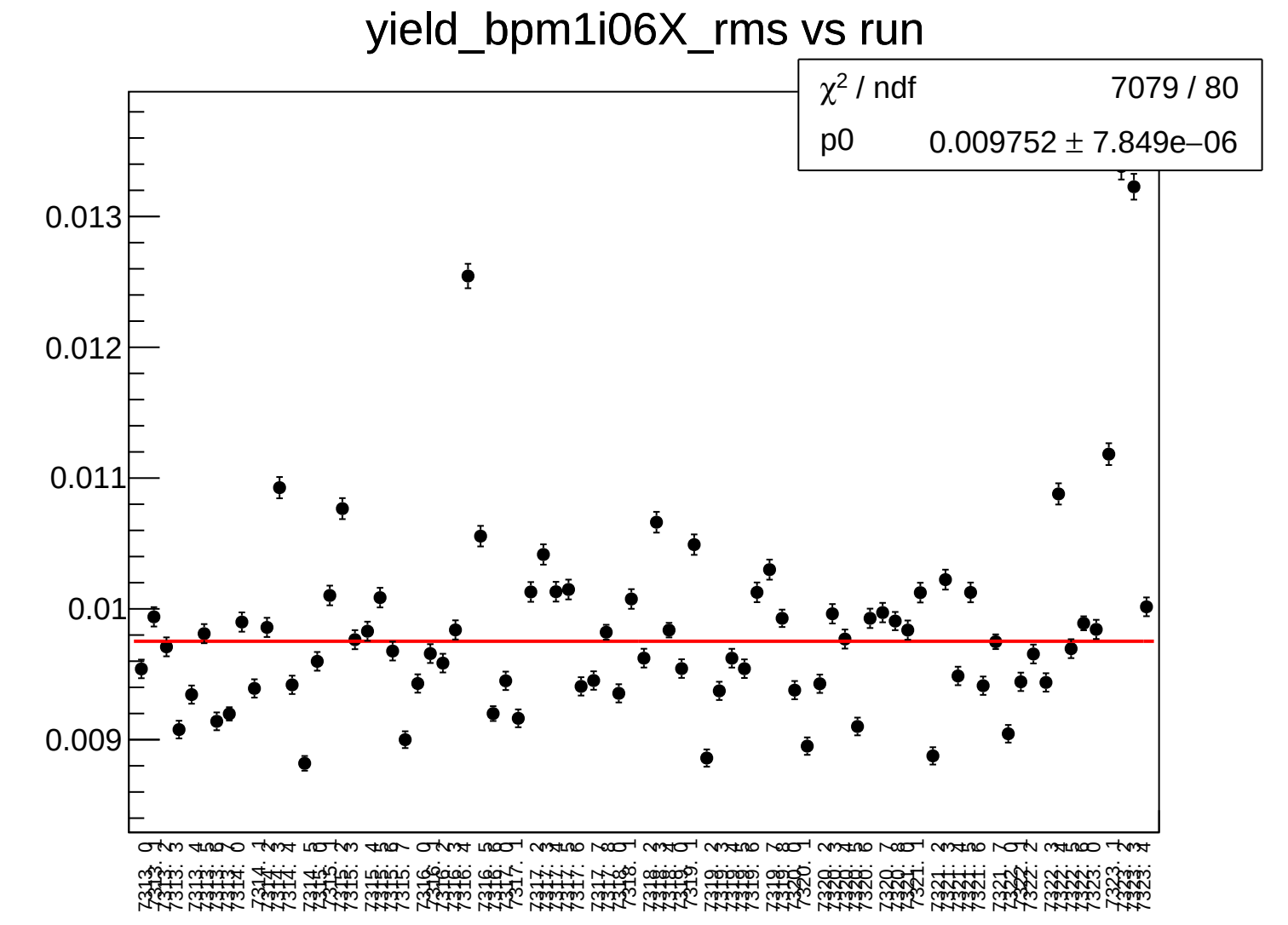

yield_bpm1i04Y_mean vs run
χ² / ndf 9.366e+06 / 80
p0 0.2396 ± 4.929e−06
0.26
0.25
0.24
0.23
0.22
0.21
pull
Entries 81
Mean 1582
Std Dev 1540
600
400
200
0
−200
−400
−600

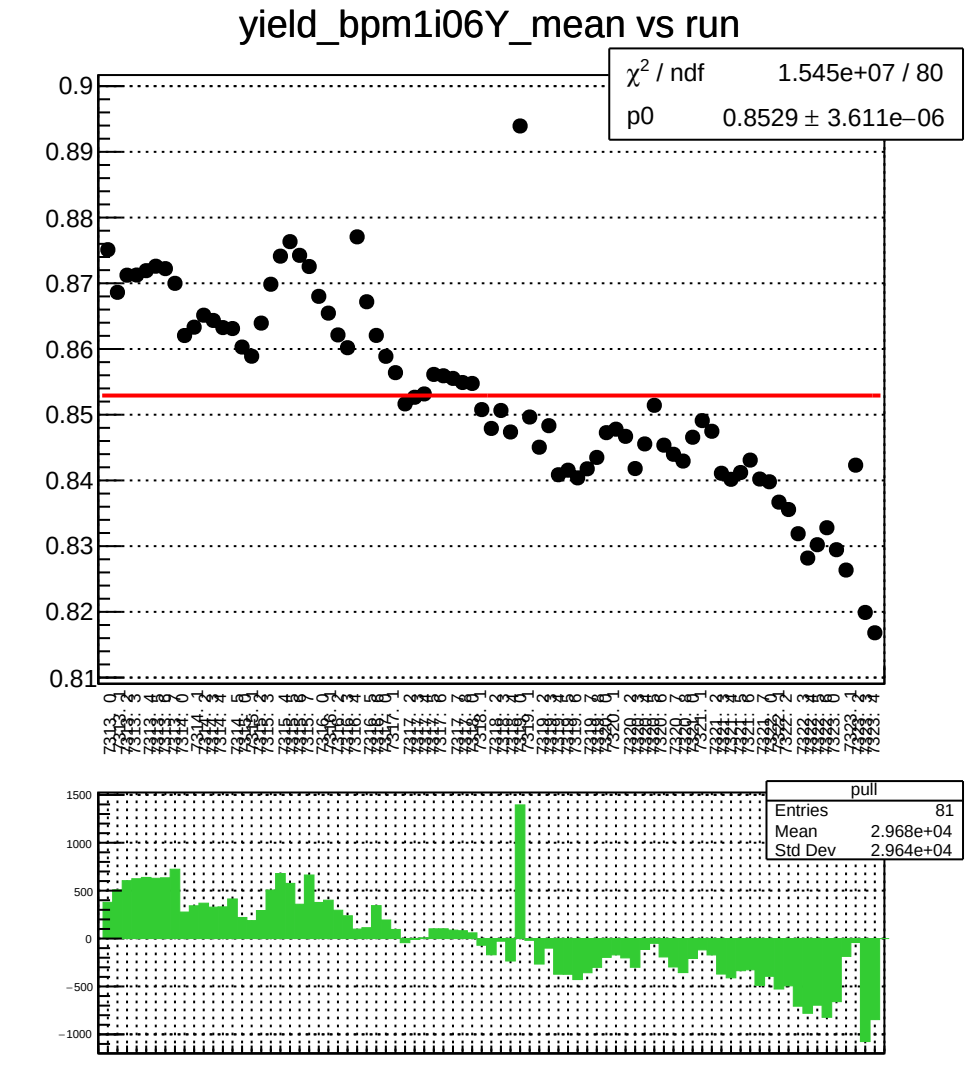

pull1D
Entries 81
Mean 3.756
Std Dev 3.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

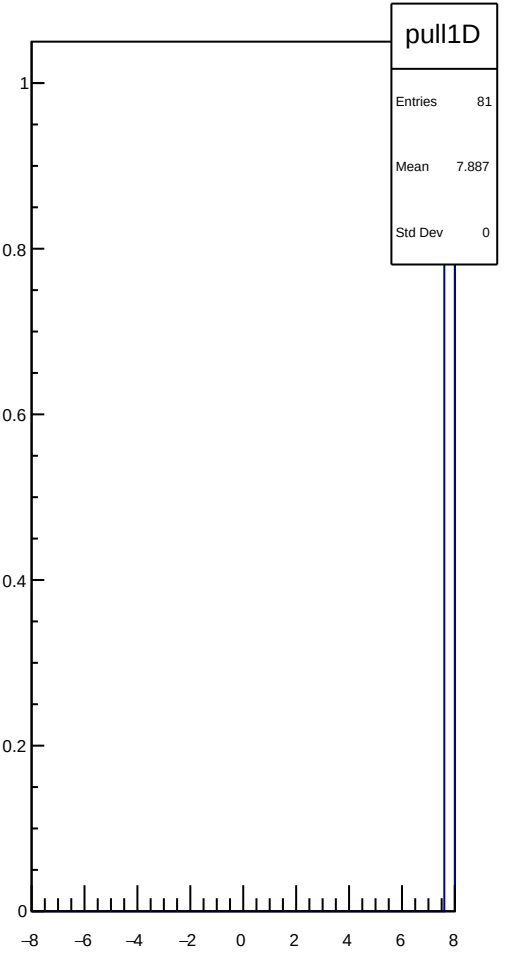

yield_bpm1i04Y_rms vs run
χ² / ndf 8205 / 80
p0 0.004329 ± 3.485e−06
0.006
0.0055
0.005
0.0045
0.004

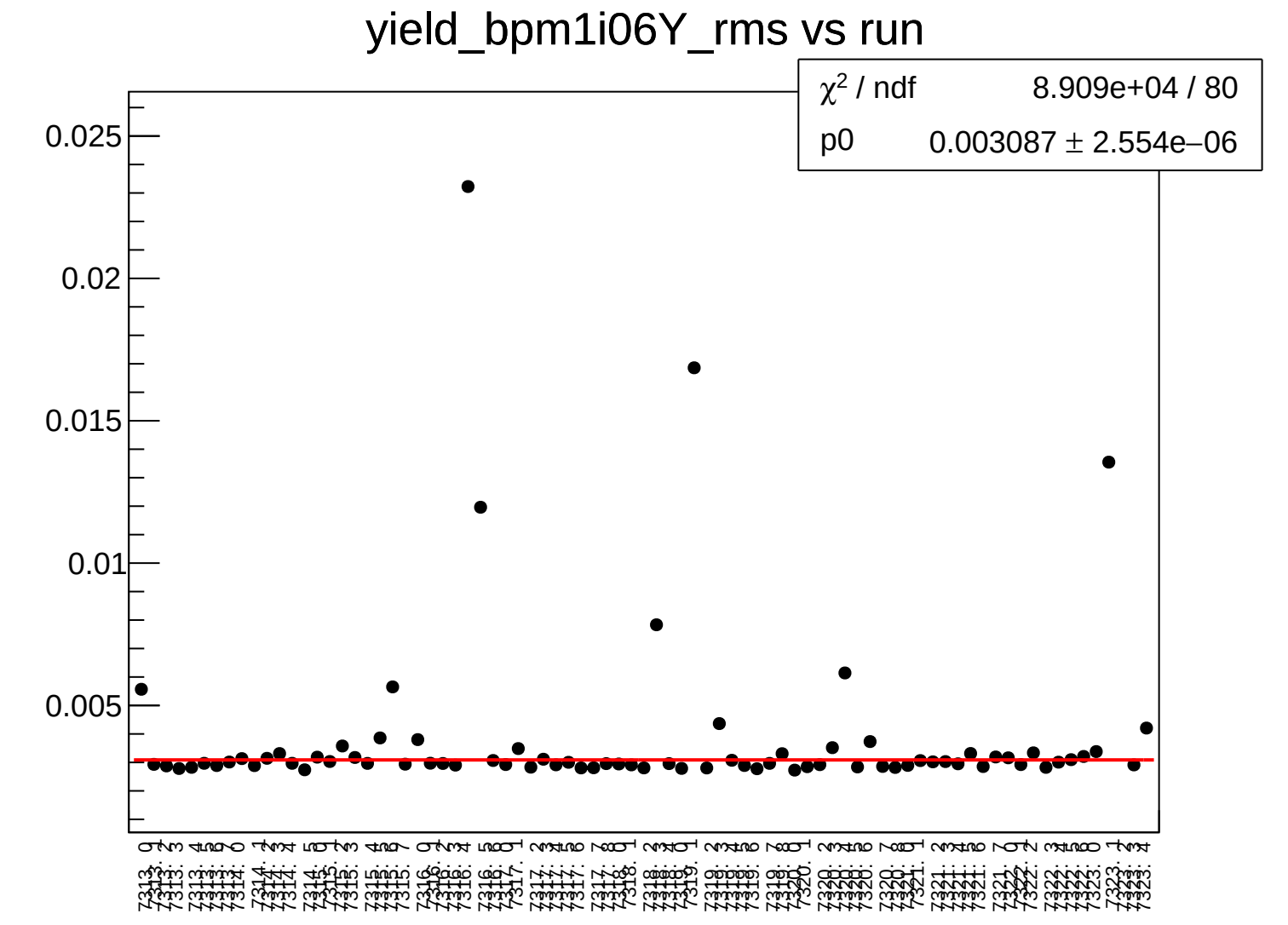

yield_bpm1i06X_mean vs run
χ² / ndf 1.23e+06 / 80
p0 1.856 ± 1.11e−05
1.88
1.87
1.86
1.85
1.84
1.83
pull
Entries 81
Mean 919.7
Std Dev 874.6
200
100
0
−100
−200
−300

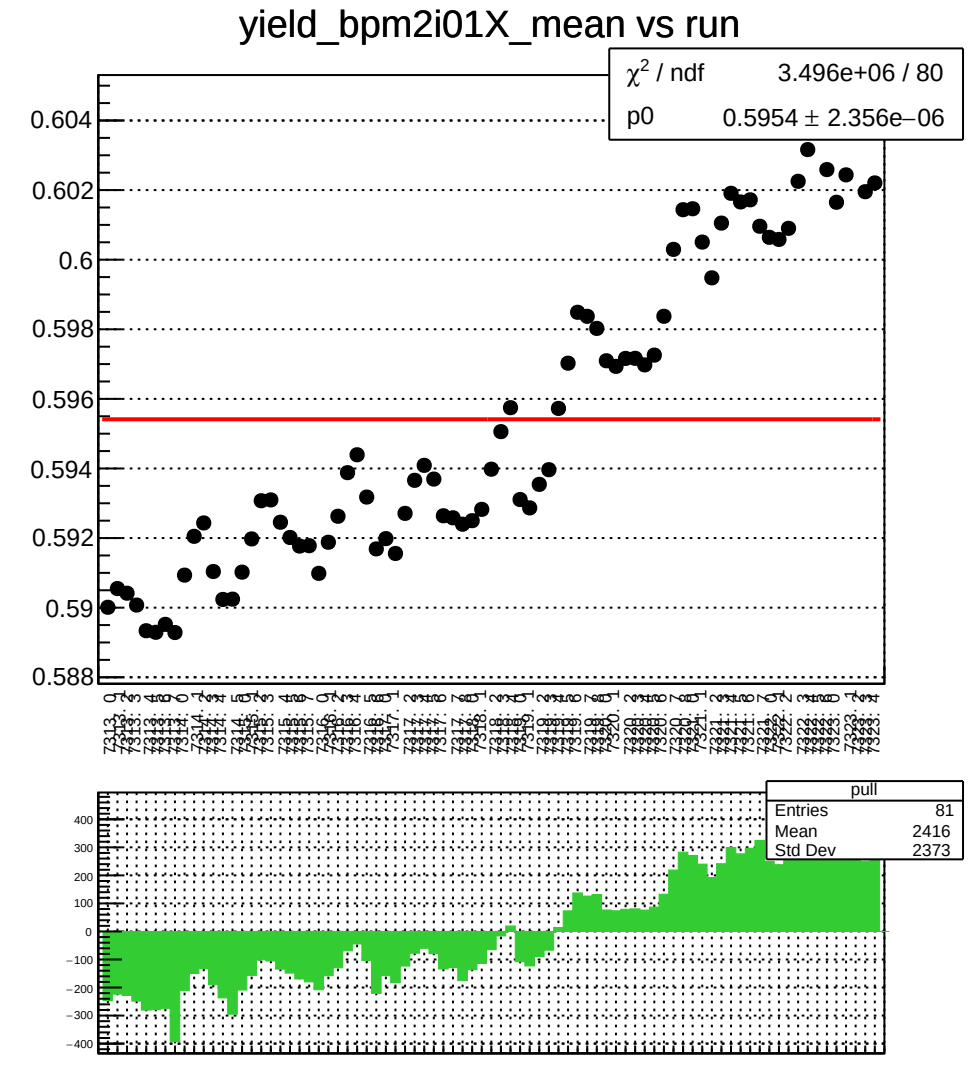

pull1D
Entries 81
Mean −1.786
Std Dev 4.563
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

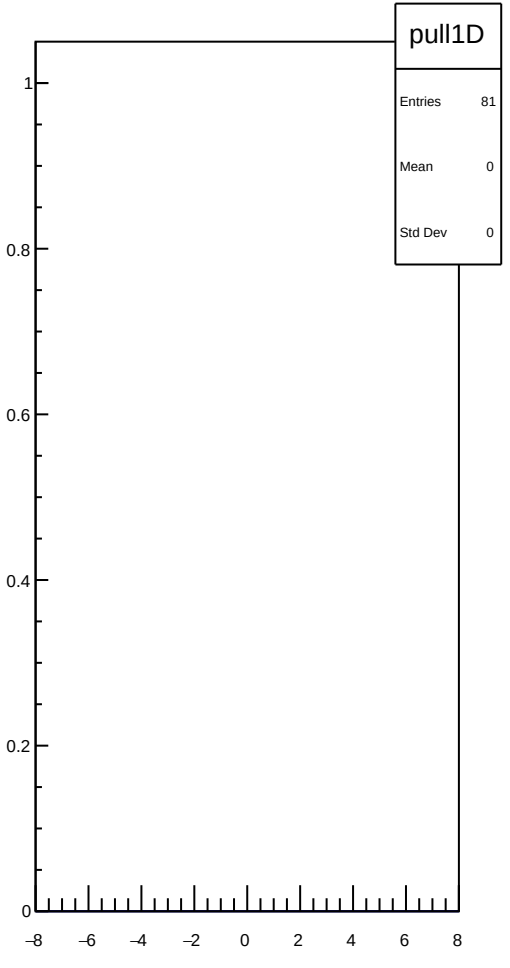

yield_bpm1i06X_rms vs run
χ² / ndf 7079 / 80
p0 0.009752 ± 7.849e−06
0.013
0.012
0.011
0.01
0.009

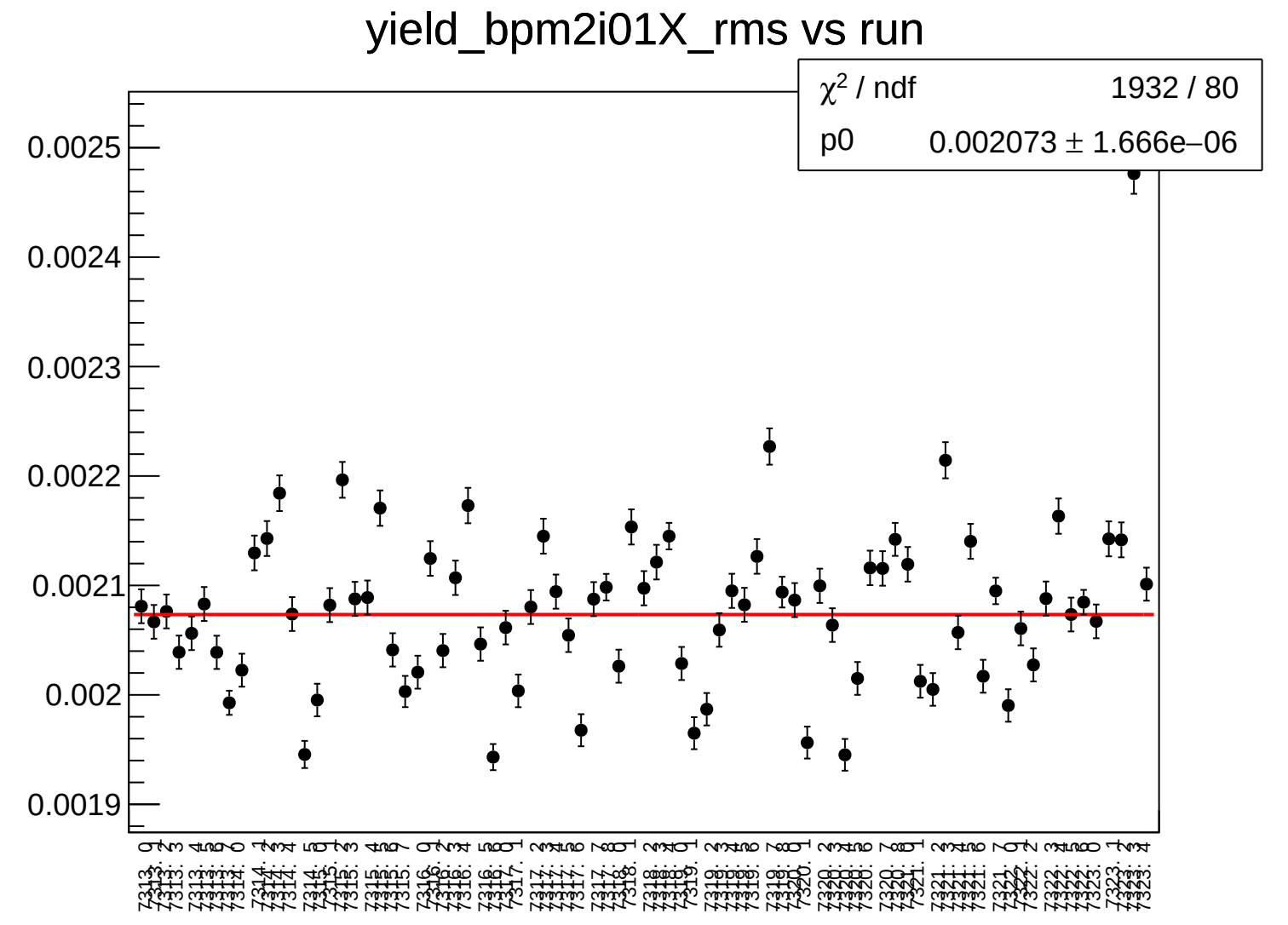

yield_bpm1i06Y_mean vs run
χ² / ndf 1.545e+07 / 80
p0 0.8529 ± 3.611e−06
pull
Entries 81
Mean 2.968e+04
Std Dev 2.964e+04

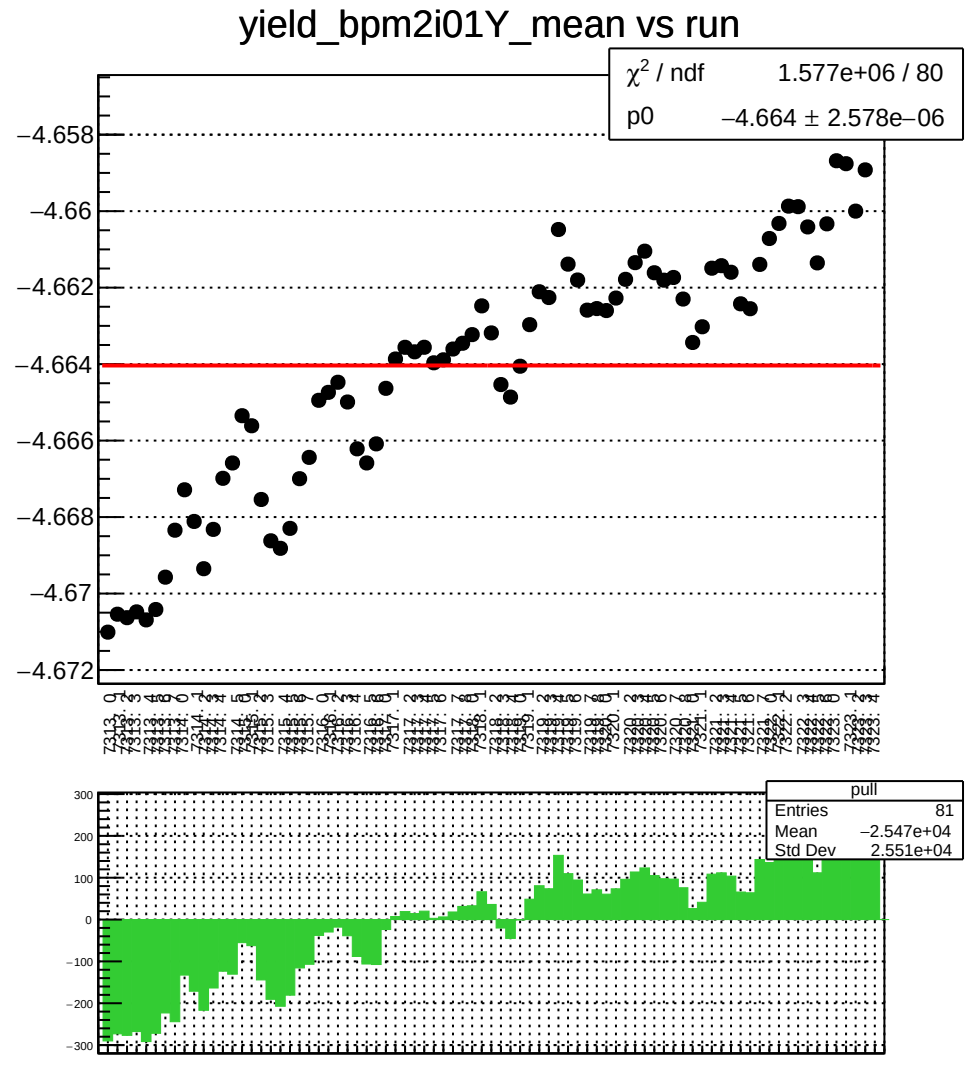

pull1D
Entries 81
Mean 7.887
Std Dev 0

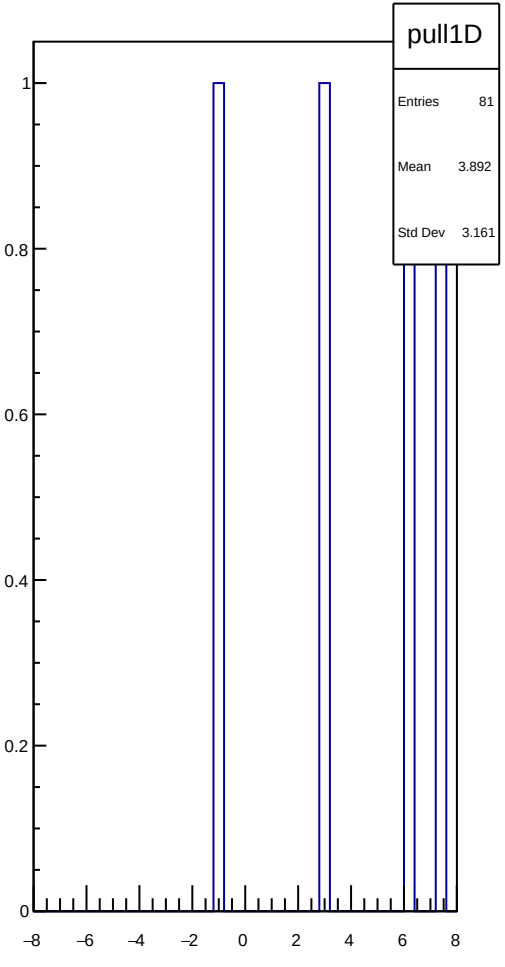

yield_bpm1i06Y_rms vs run
χ^2 / ndf 8.909e+04 / 80
p0 0.003087 ± 2.554e−06
0.025
0.02
0.015
0.01
0.005

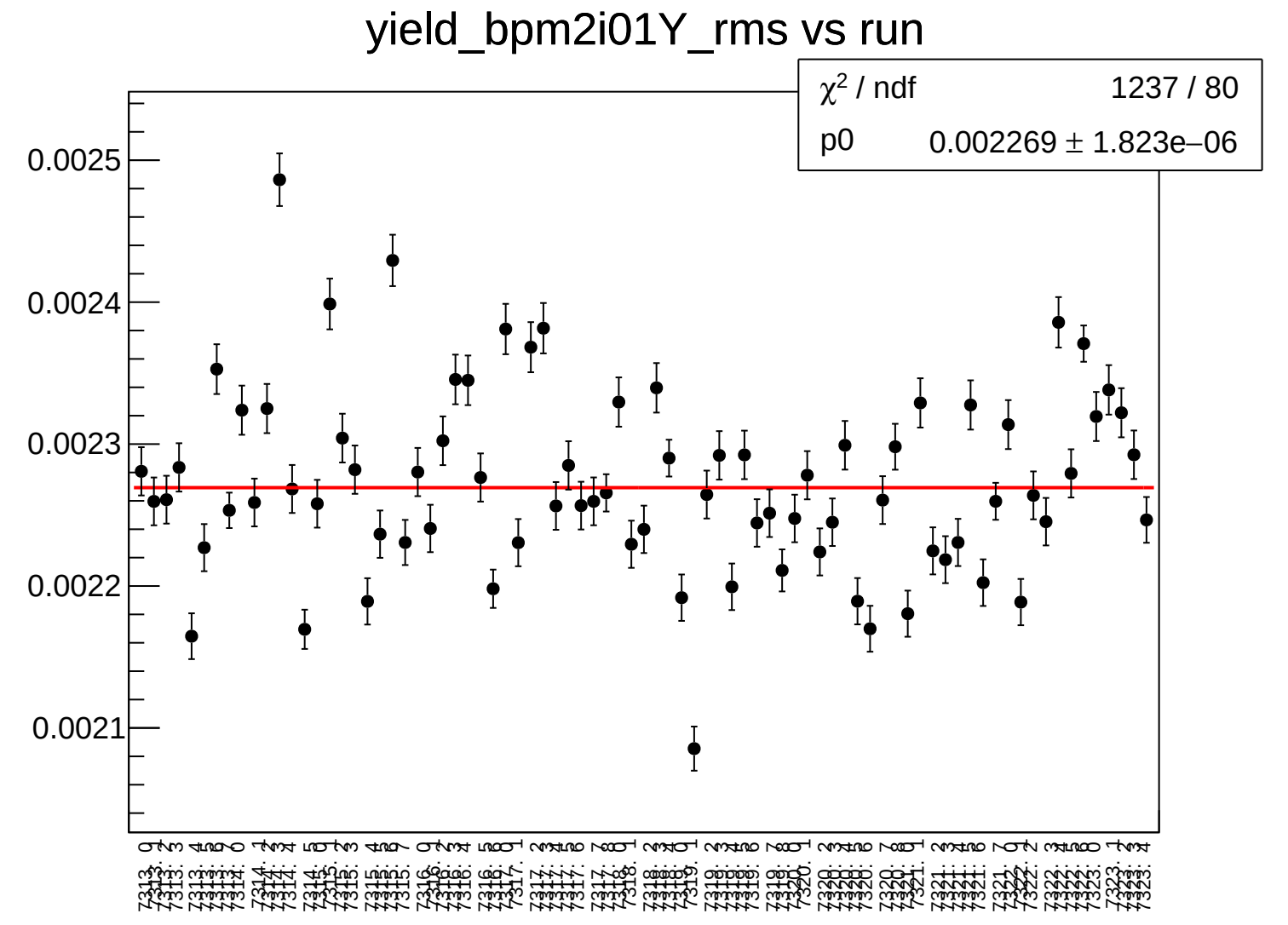

yield_bpm2i01X_mean vs run
χ² / ndf 3.496e+06 / 80
p0 0.5954 ± 2.356e−06
0.604
0.602
0.6
0.598
0.596
0.594
0.592
0.59
0.588
pull
Entries 81
Mean 2416
Std Dev 2373
400
300
200
100
0
−100
−200
−300
−400

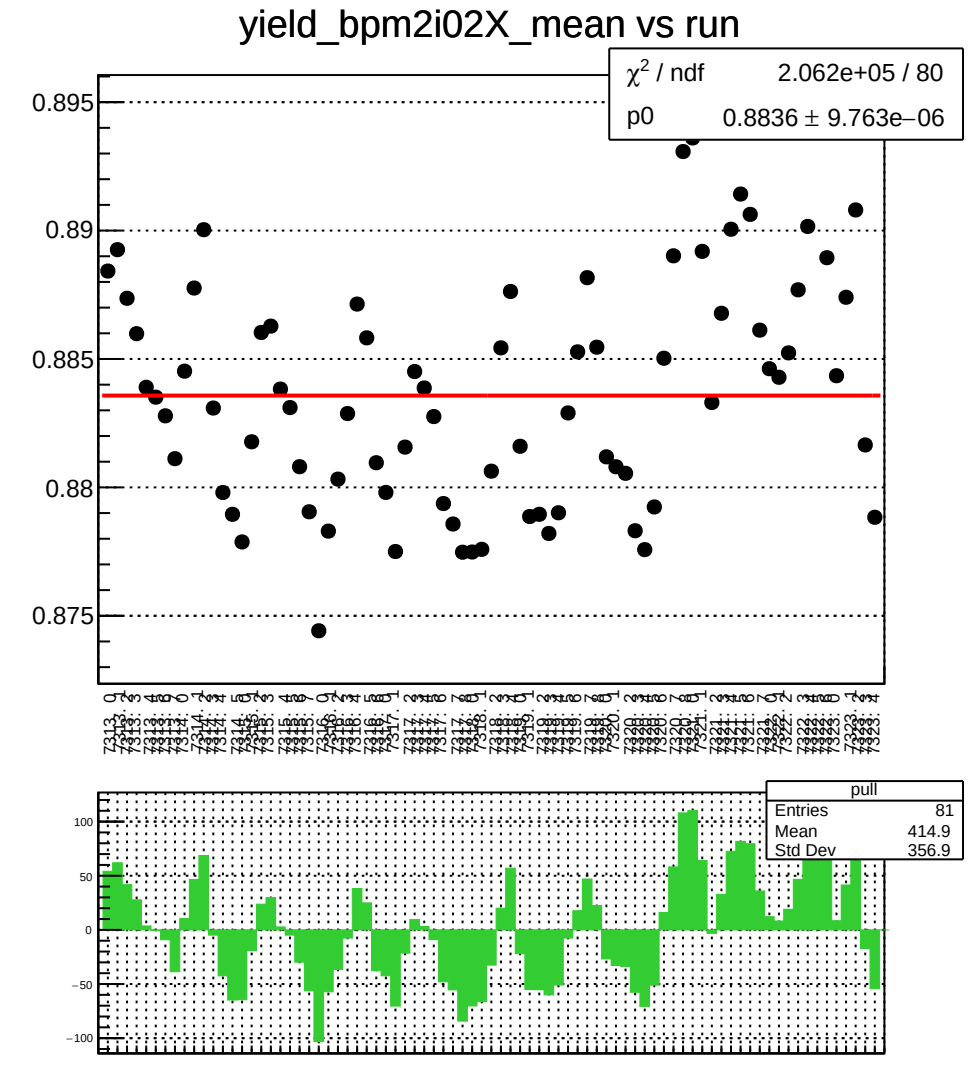

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

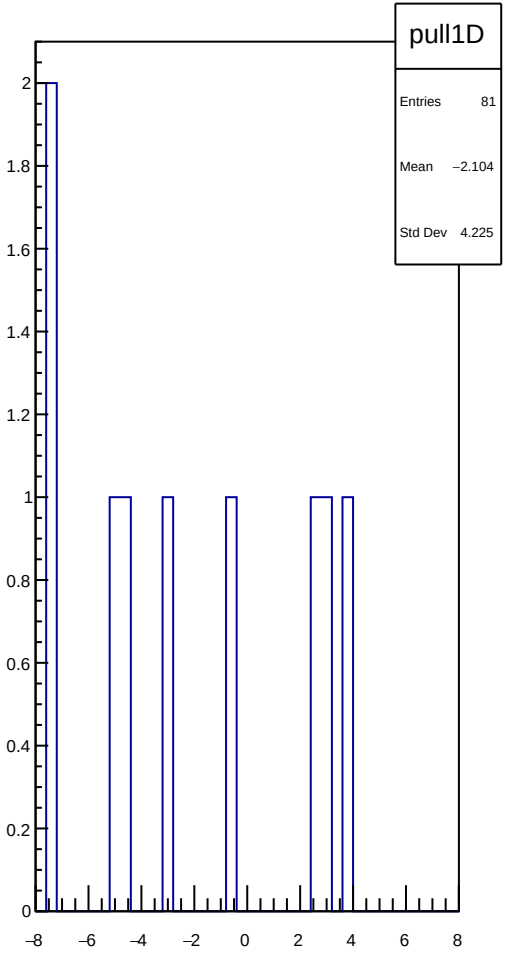

yield_bpm2i01X_rms vs run
χ² / ndf 1932 / 80
p0 0.002073 ± 1.666e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019


yield_bpm2i01Y_mean vs run
χ² / ndf 1.577e+06 / 80
p0 −4.664 ± 2.578e−06
−4.658
−4.66
−4.662
−4.664
−4.666
−4.668
−4.67
−4.672
pull
Entries 81
Mean −2.547e+04
Std Dev 2.551e+04
300
200
100
0
−100
−200
−300

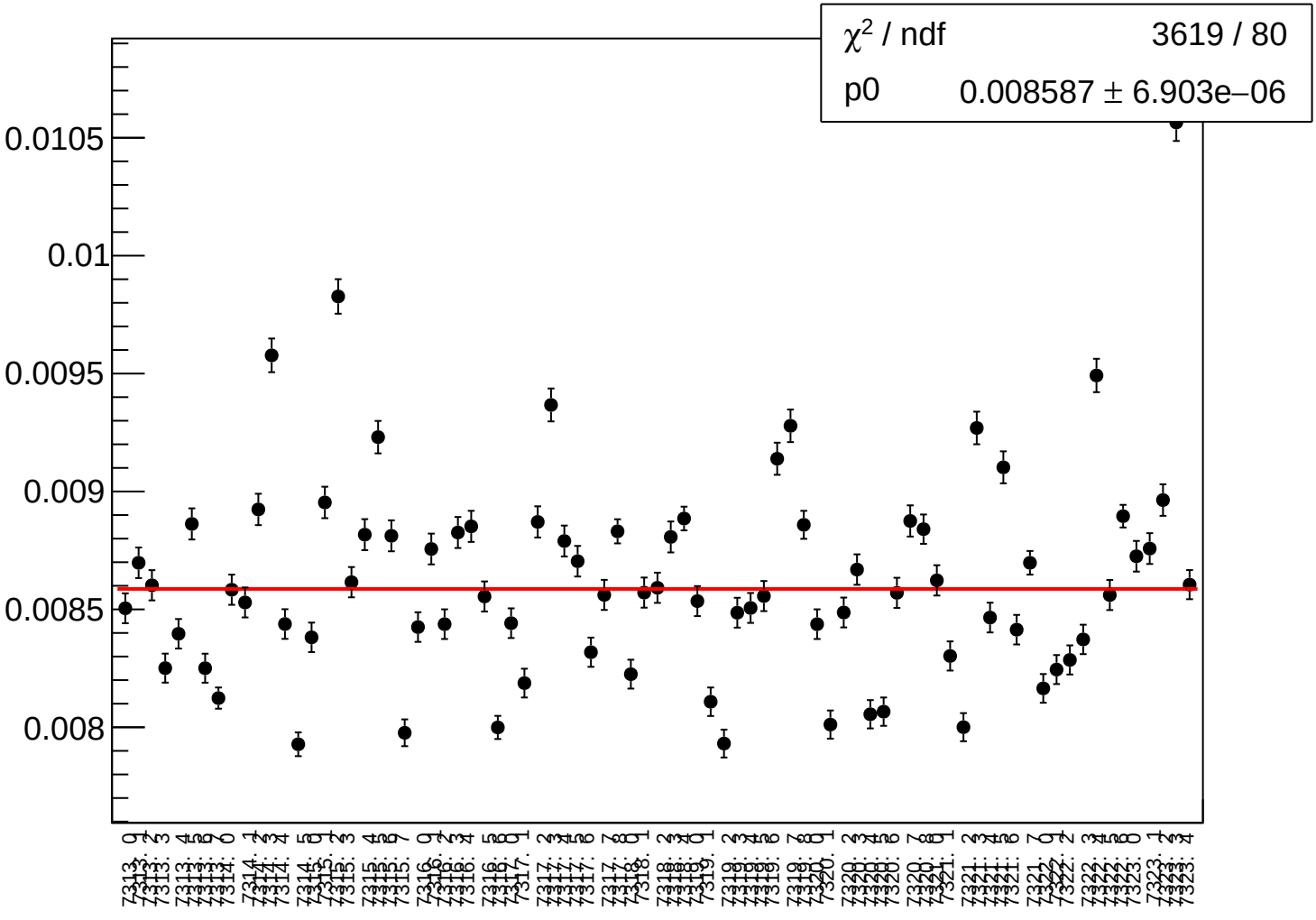

pull1D
Entries 81
Mean 3.892
Std Dev 3.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

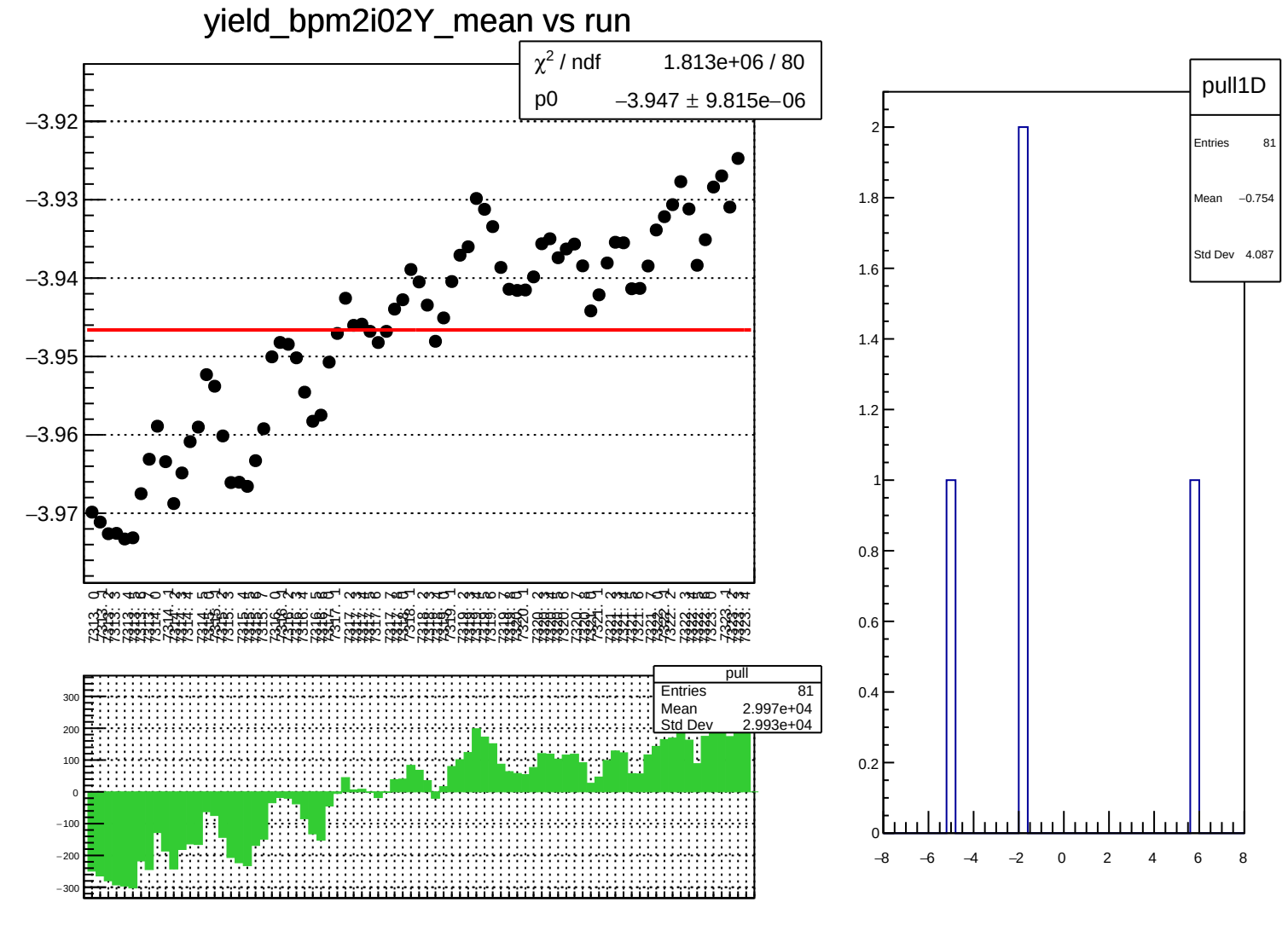

yield_bpm2i01Y_rms vs run
χ² / ndf 1237 / 80
p0 0.002269 ± 1.823e−06
0.0025
0.0024
0.0023
0.0022
0.0021

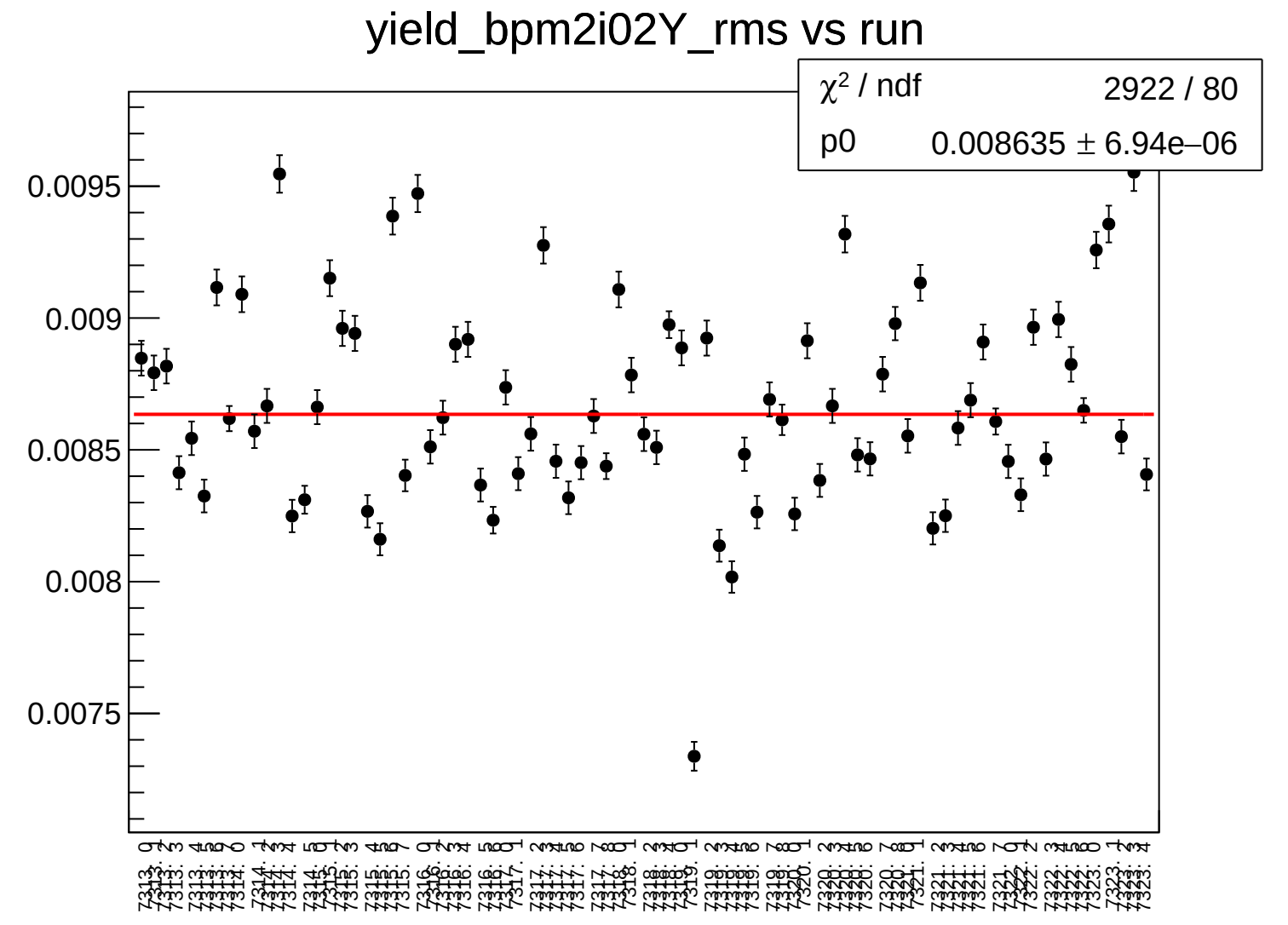

yield_bpm2i02X_mean vs run
χ² / ndf 2.062e+05 / 80
p0 0.8836 ± 9.763e−06
0.895
0.89
0.885
0.88
0.875
pull
Entries 81
Mean 414.9
Std Dev 356.9
100
50
0
−50
−100

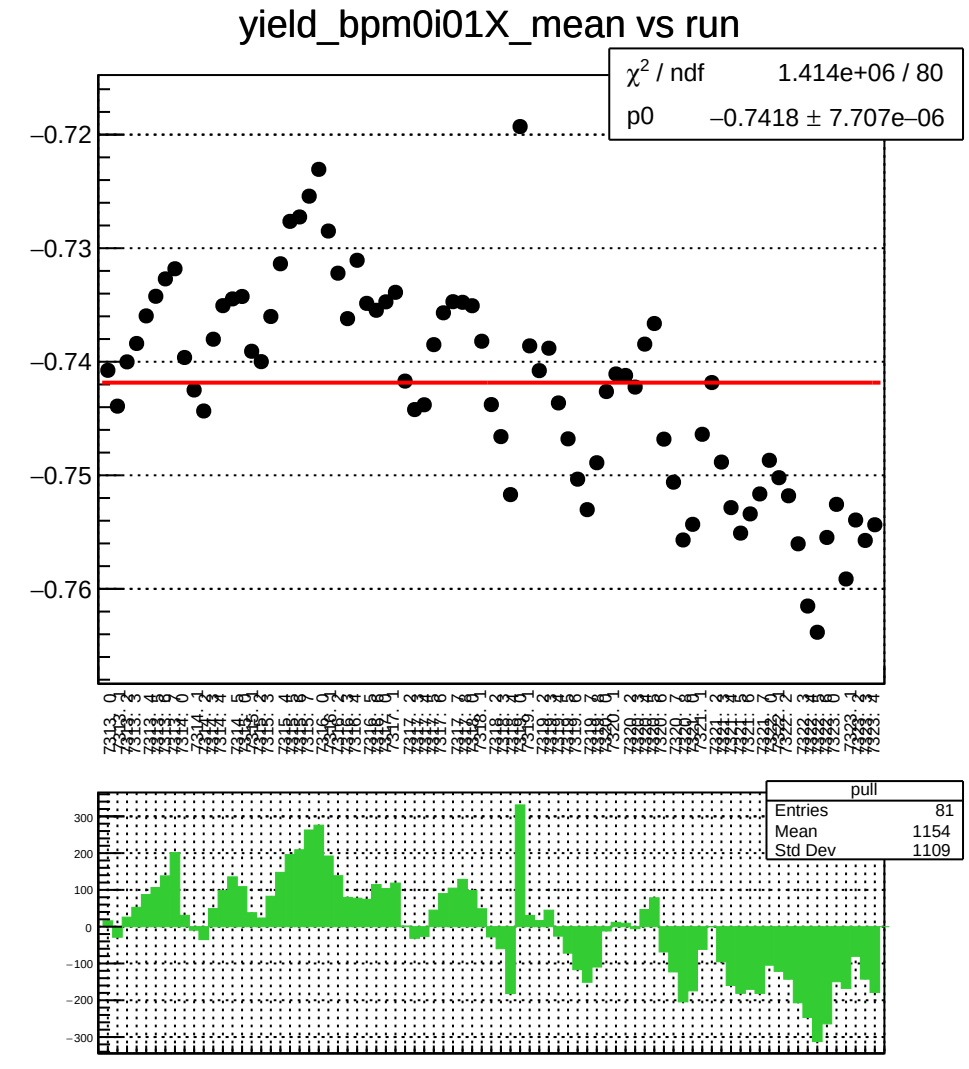

pull1D
Entries 81
Mean −2.104
Std Dev 4.225
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

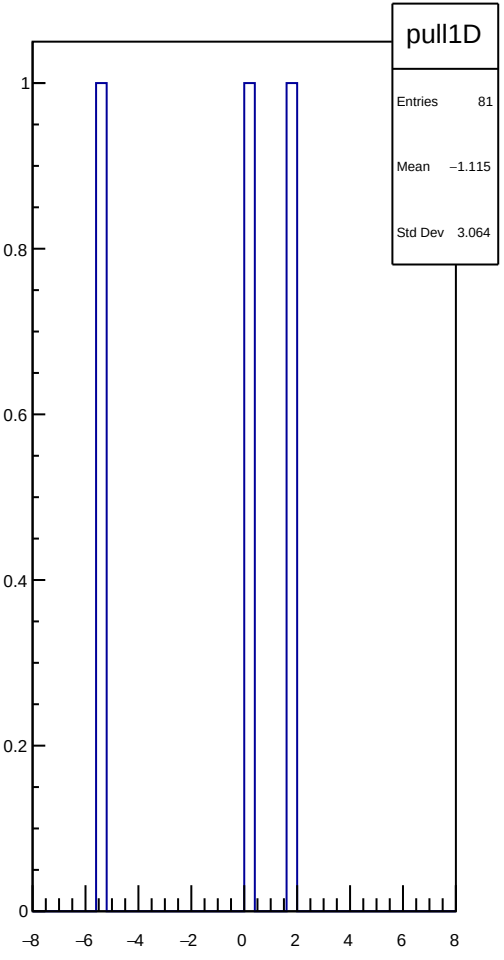
yield_bpm2i02X_rms vs run

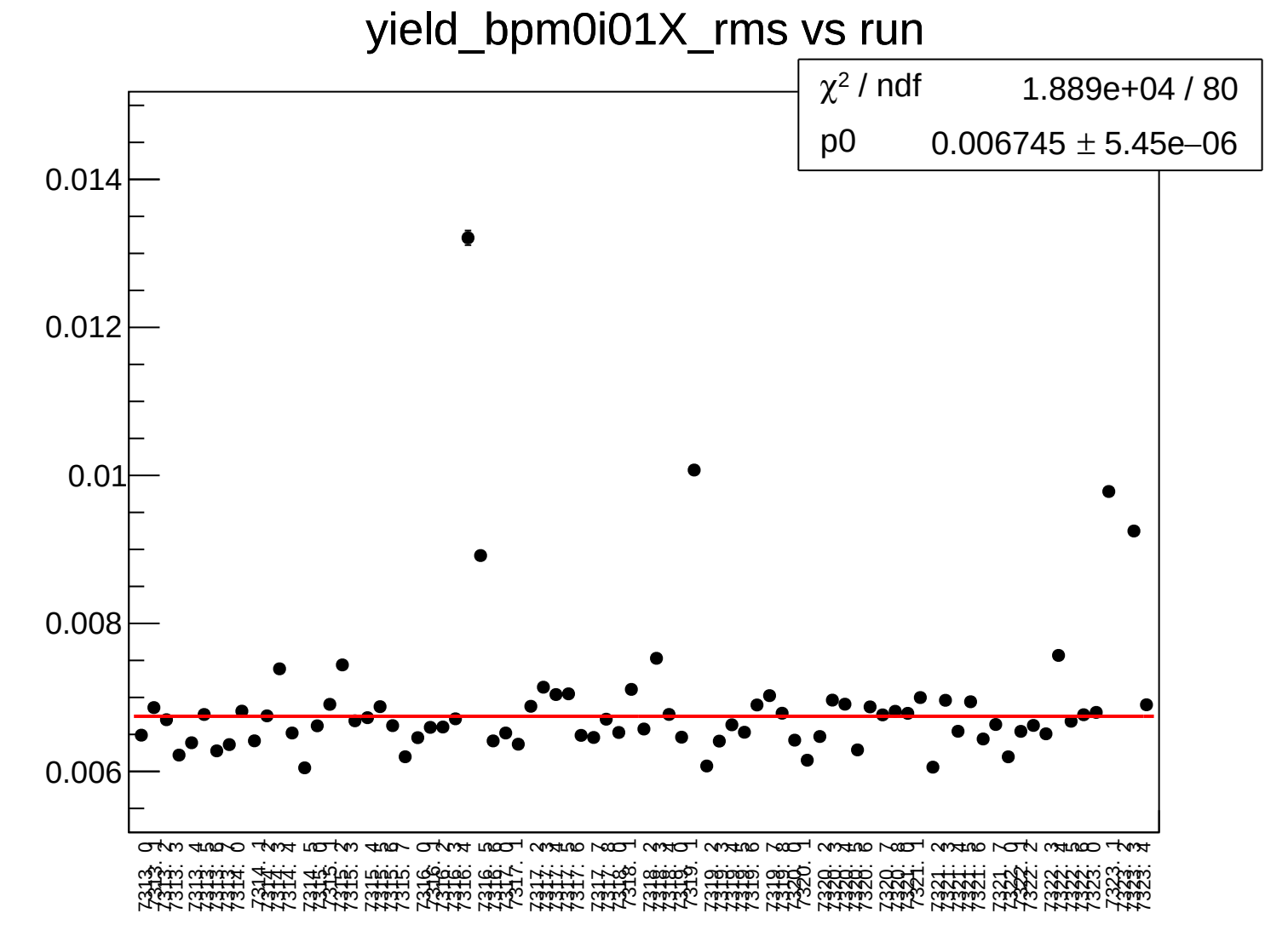


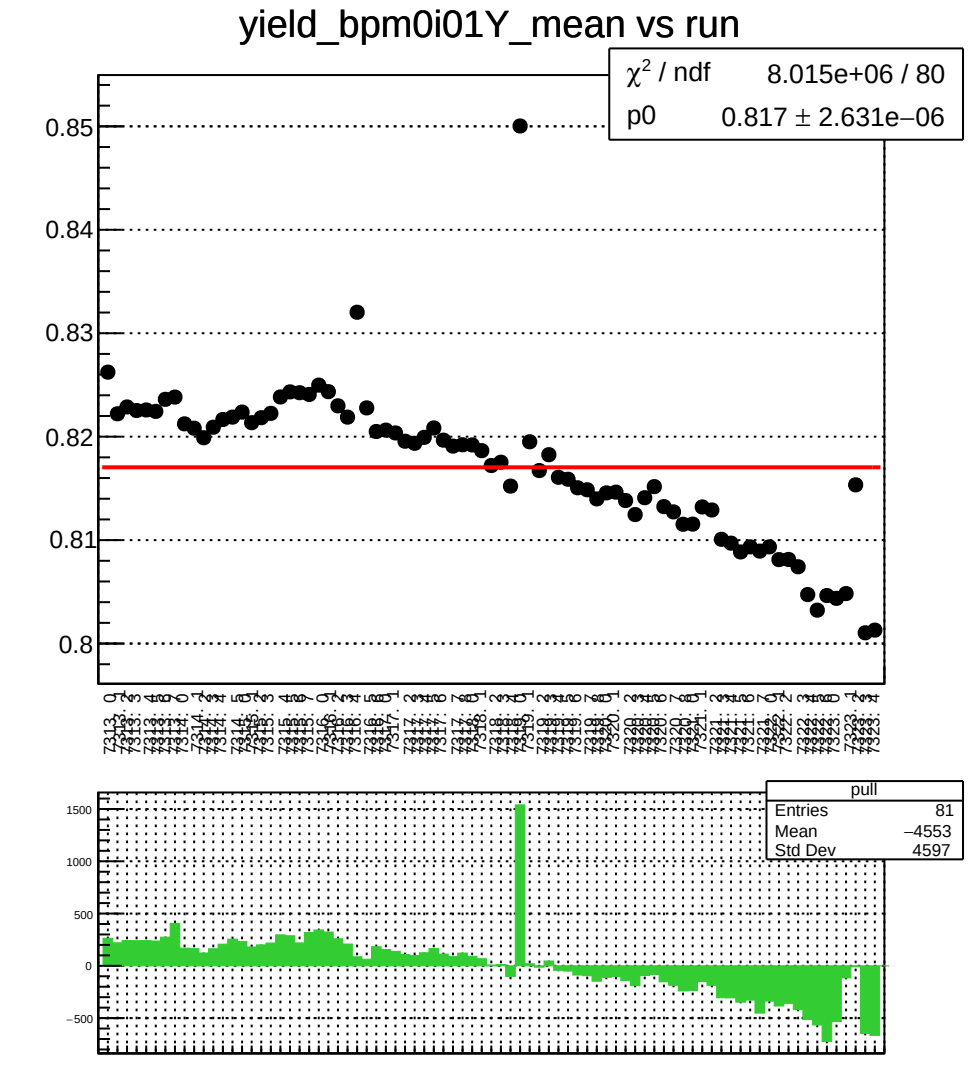

yield_bpm2i02Y_mean vs run
χ² / ndf 1.813e+06 / 80
p0 −3.947 ± 9.815e−06
−3.92
−3.93
−3.94
−3.95
−3.96
−3.97
pull
Entries 81
Mean 2.997e+04
Std Dev 2.993e+04
300
200
100
0
−100
−200
−300
pull1D
Entries 81
Mean −0.754
Std Dev 4.087
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

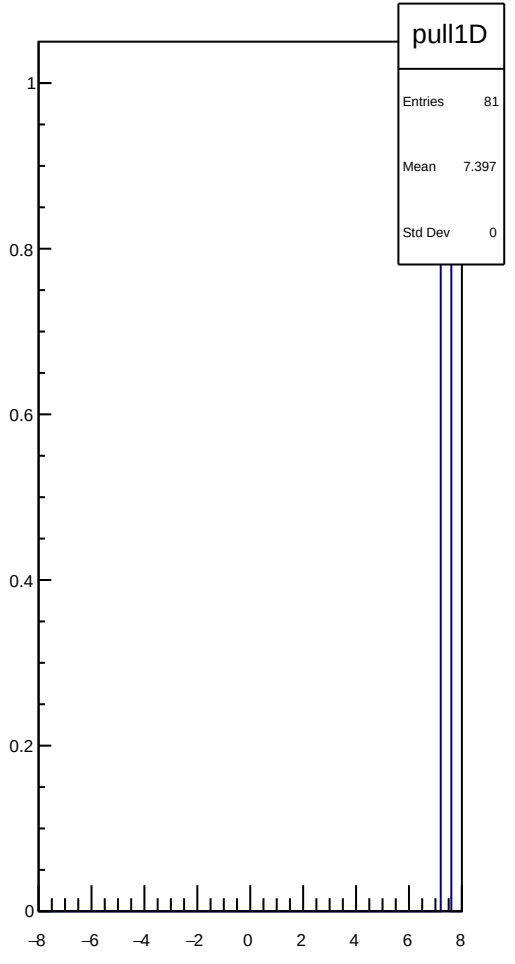

yield_bpm2i02Y_rms vs run
χ² / ndf 2922 / 80
p0 0.008635 ± 6.94e−06
0.0095
0.009
0.0085
0.008
0.0075

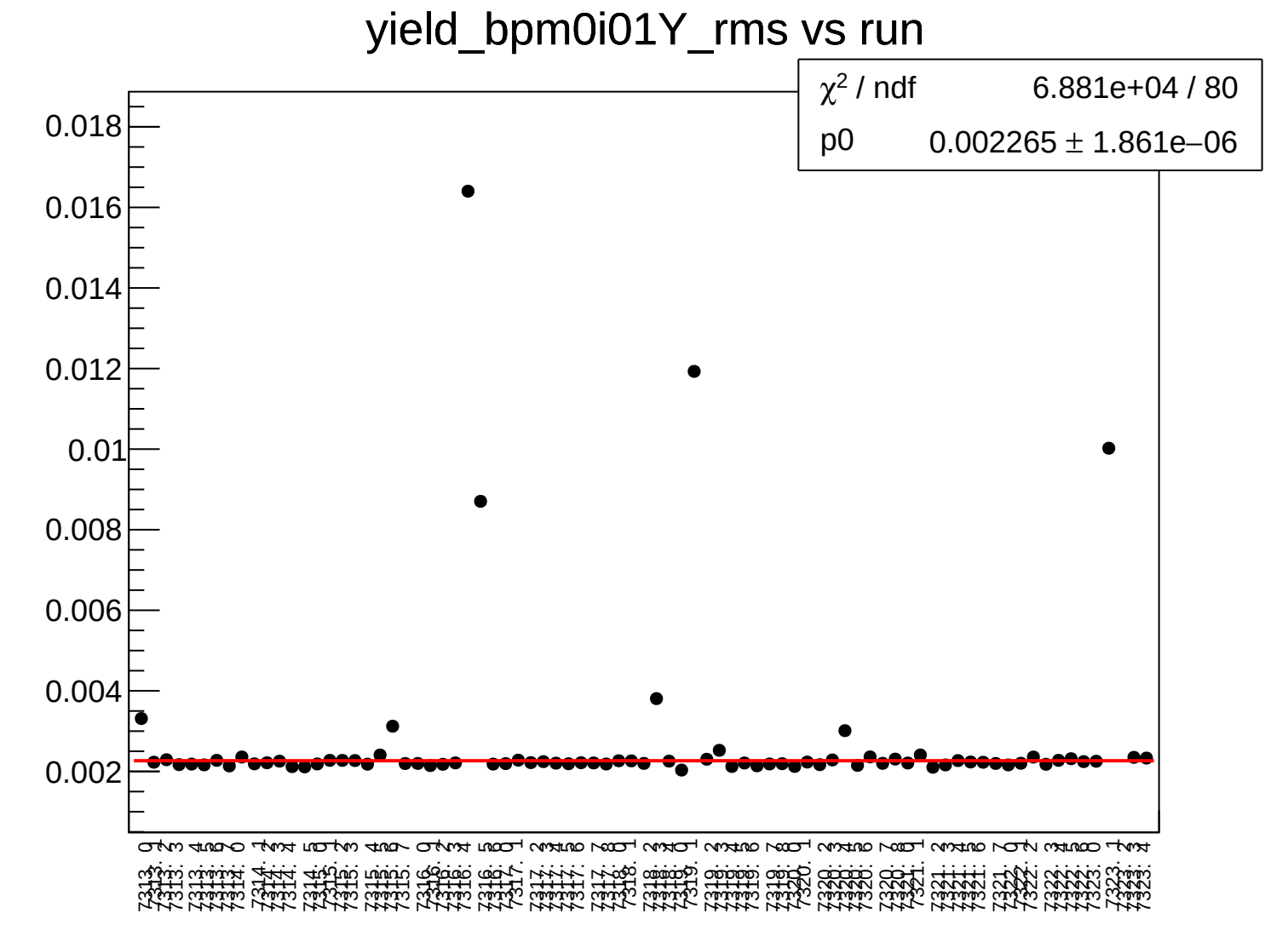

yield_bpm0i01X_mean vs run
χ² / ndf 1.414e+06 / 80
p0 −0.7418 ± 7.707e−06
−0.72
−0.73
−0.74
−0.75
−0.76
pull
Entries 81
Mean 1154
Std Dev 1109
300
200
100
0
−100
−200
−300

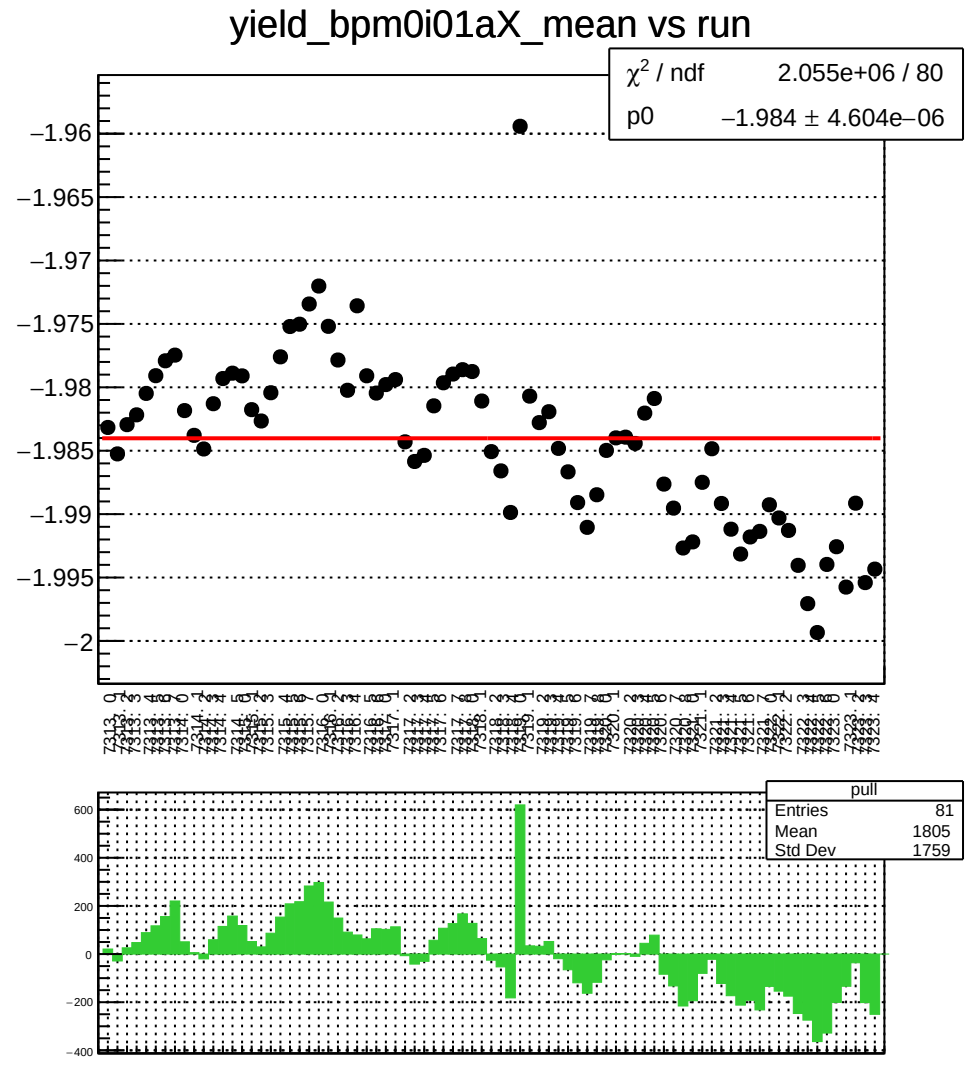

pull1D
Entries 81
Mean −1.115
Std Dev 3.064
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

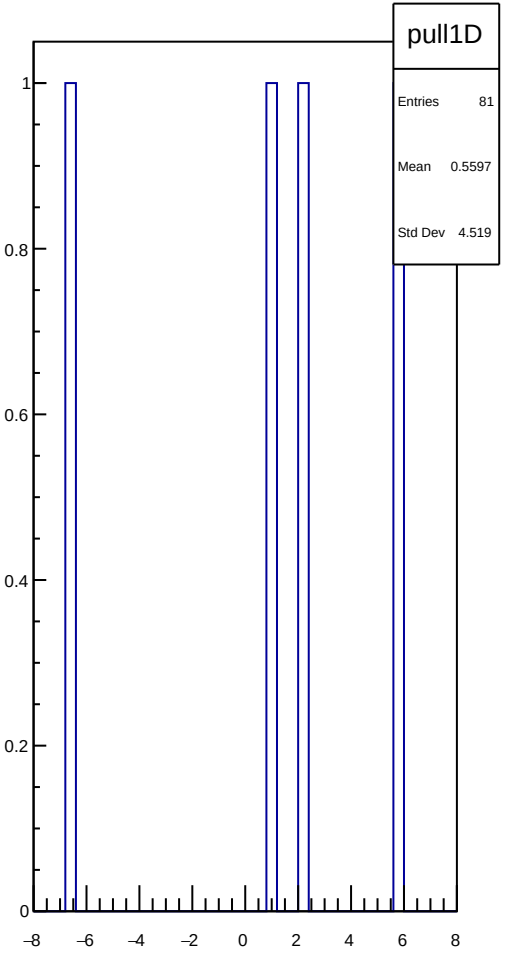

yield_bpm0i01X_rms vs run
χ² / ndf 1.889e+04 / 80
p0 0.006745 ± 5.45e−06
0.014
0.012
0.01
0.008
0.006

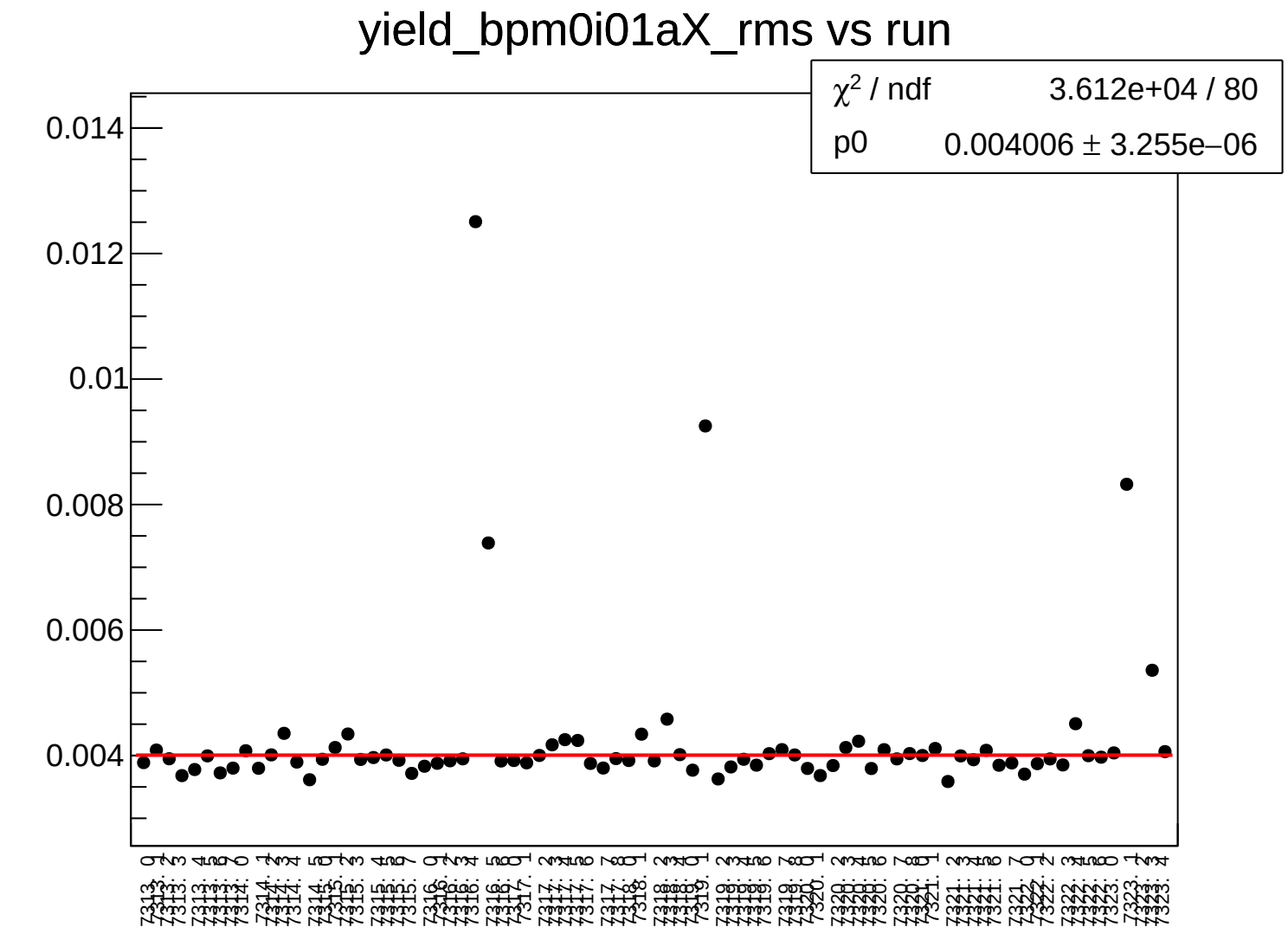

yield_bpm0i01Y_mean vs run
χ² / ndf 8.015e+06 / 80
p0 0.817 ± 2.631e−06
0.85
0.84
0.83
0.82
0.81
0.8
pull
Entries 81
Mean −4553
Std Dev 4597
1500
1000
500
0
−500

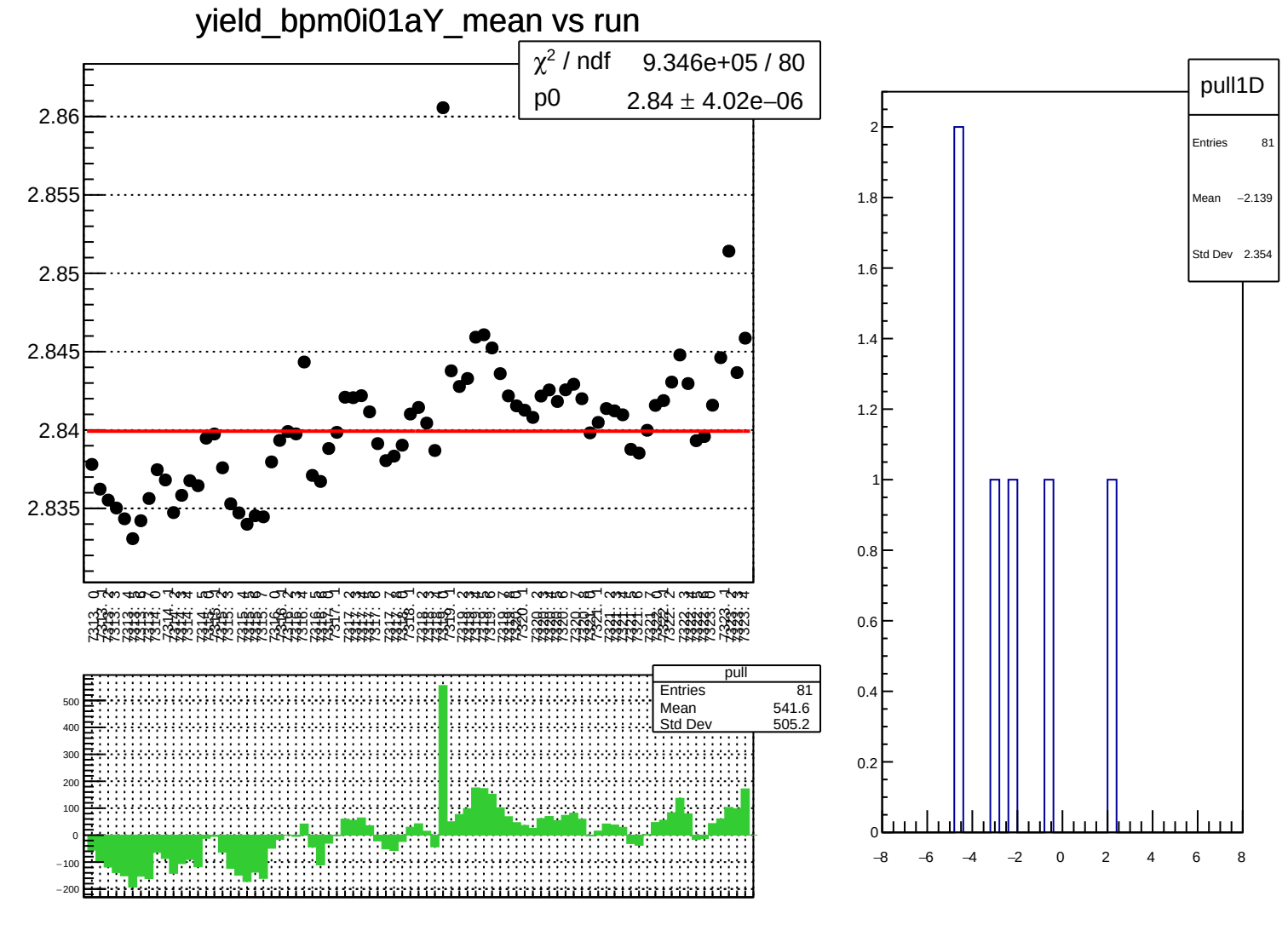

pull1D
Entries 81
Mean 7.397
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

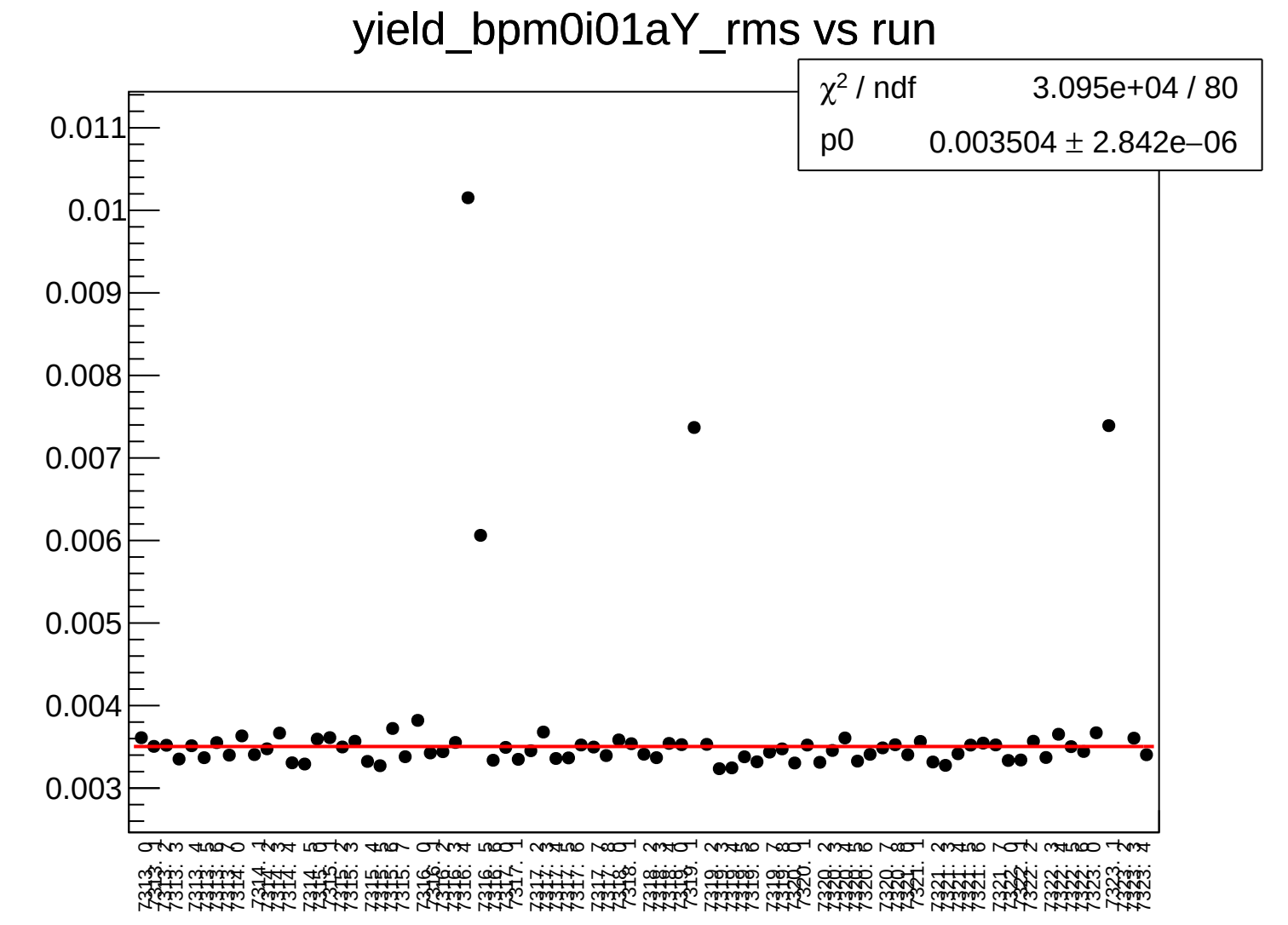

yield_bpm0i01Y_rms vs run
χ² / ndf 6.881e+04 / 80
p0 0.002265 ± 1.861e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

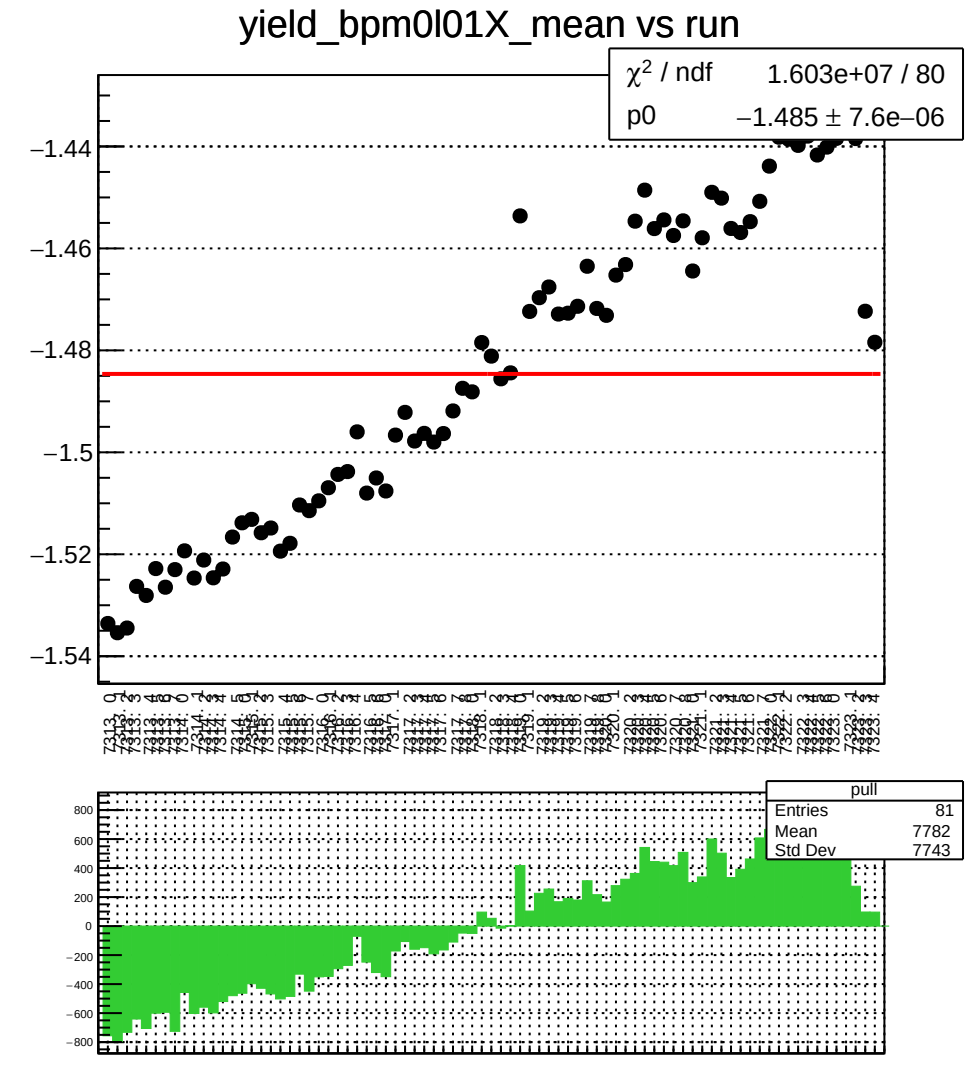

yield_bpm0i01aX_mean vs run
χ² / ndf 2.055e+06 / 80
p0 −1.984 ± 4.604e−06
−1.96
−1.965
−1.97
−1.975
−1.98
−1.985
−1.99
−1.995
−2
pull
Entries 81
Mean 1805
Std Dev 1759
600
400
200
0
−200
−400

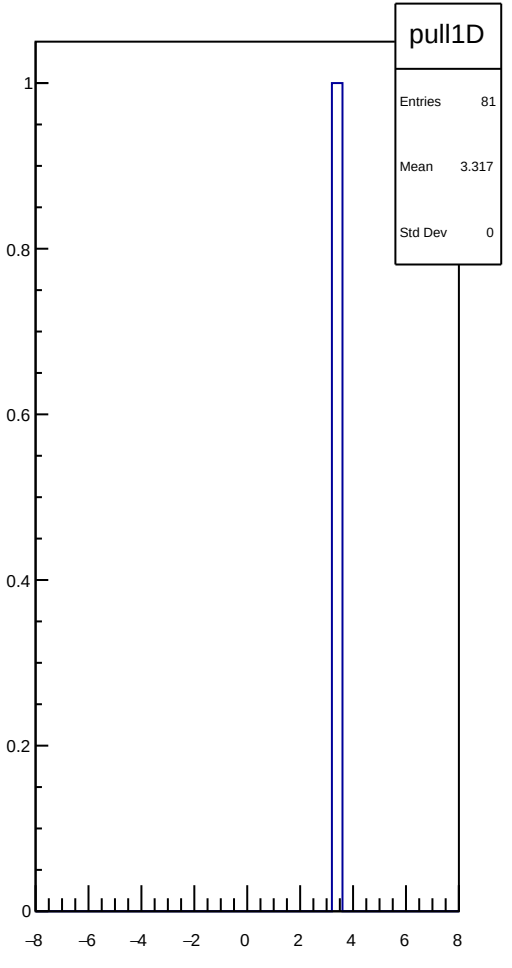

pull1D
Entries 81
Mean 0.5597
Std Dev 4.519
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

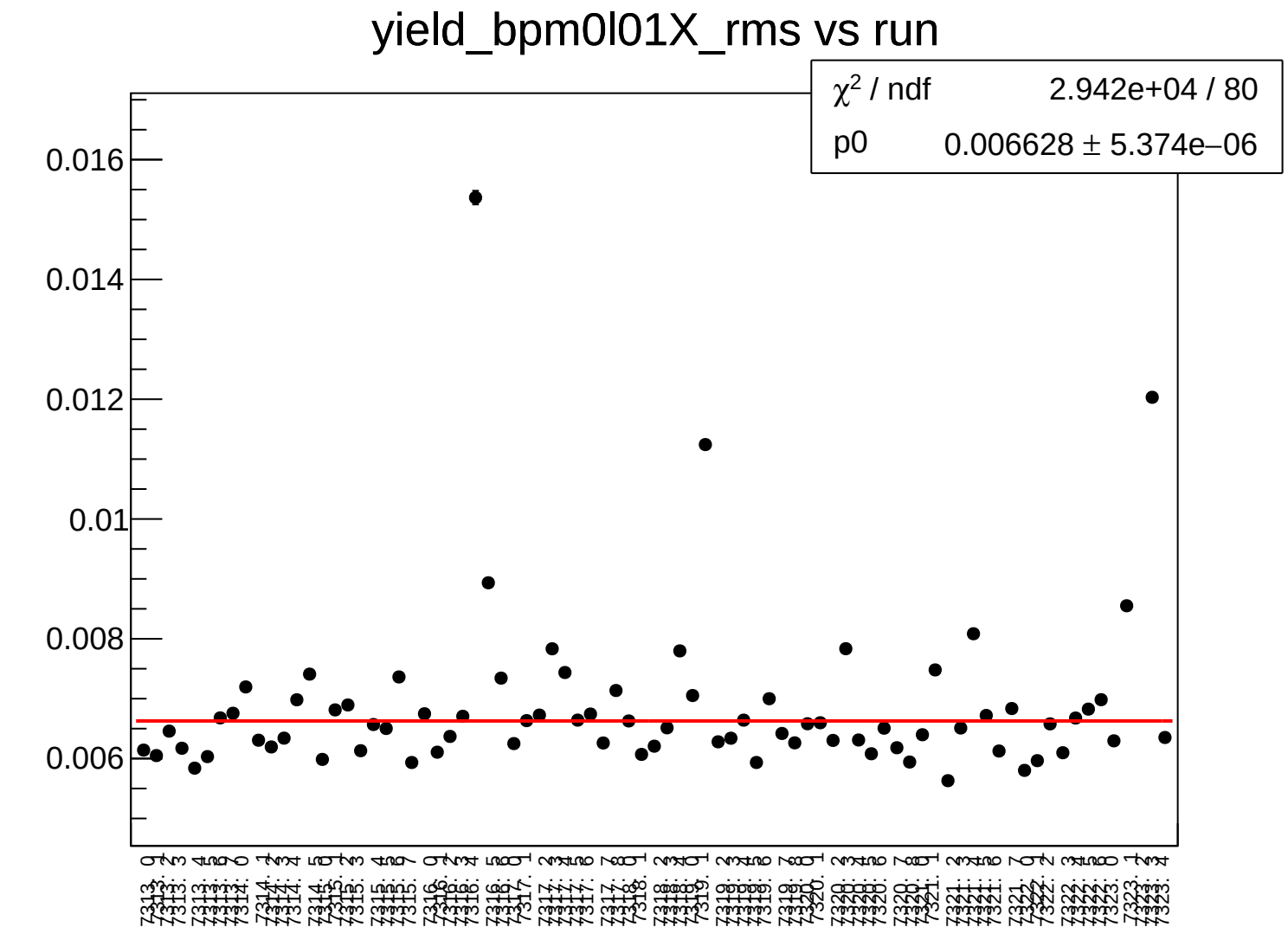

yield_bpm0i01aX_rms vs run
χ² / ndf 3.612e+04 / 80
p0 0.004006 ± 3.255e−06
0.014
0.012
0.01
0.008
0.006
0.004

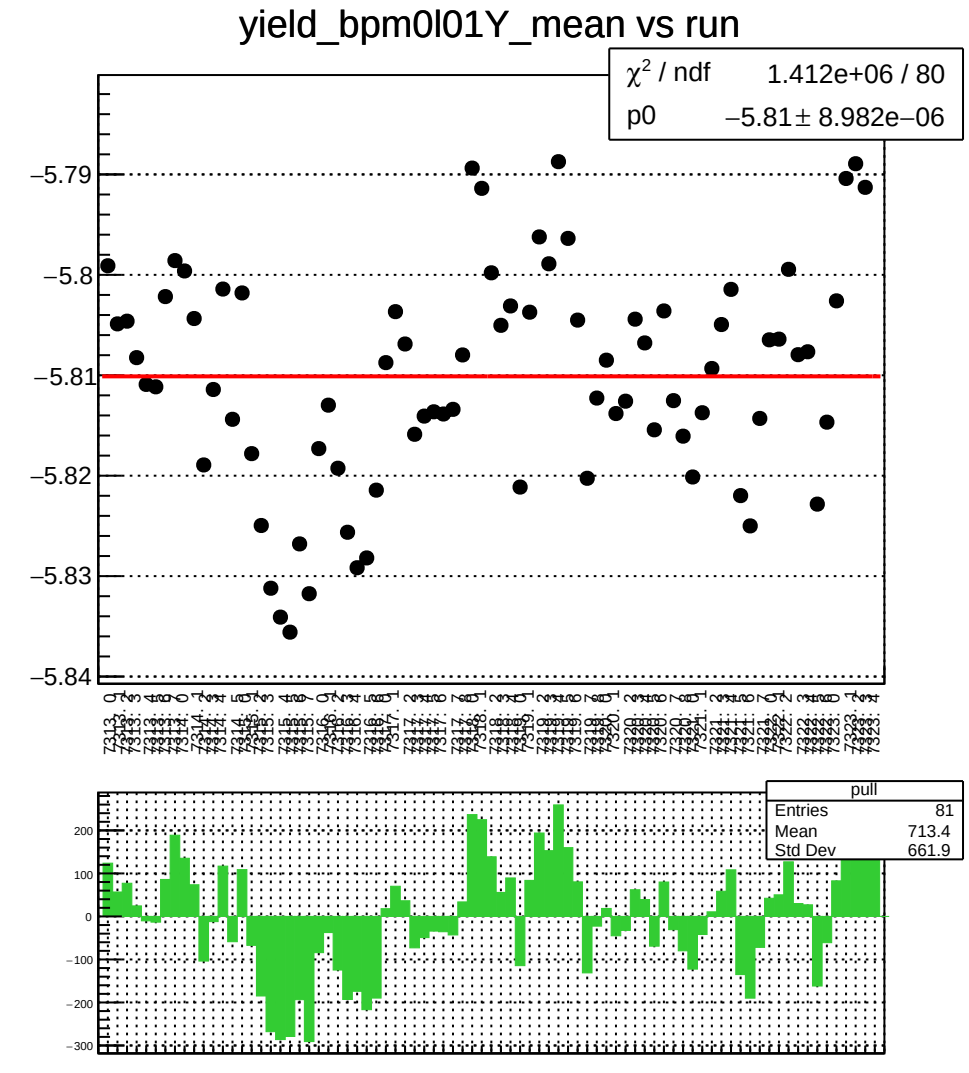

yield_bpm0i01aY_mean vs run
χ² / ndf 9.346e+05 / 80
p0 2.84 ± 4.02e−06
2.86
2.855
2.85
2.845
2.84
2.835
pull
Entries 81
Mean 541.6
Std Dev 505.2
500
400
300
200
100
0
−100
−200
pull1D
Entries 81
Mean −2.139
Std Dev 2.354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

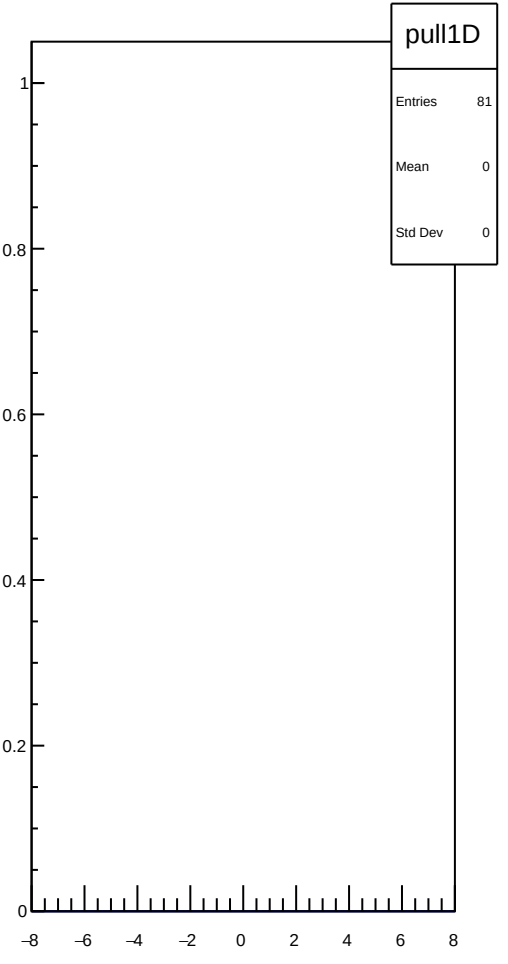

yield_bpm0i01aY_rms vs run
χ² / ndf 3.095e+04 / 80
p0 0.003504 ± 2.842e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

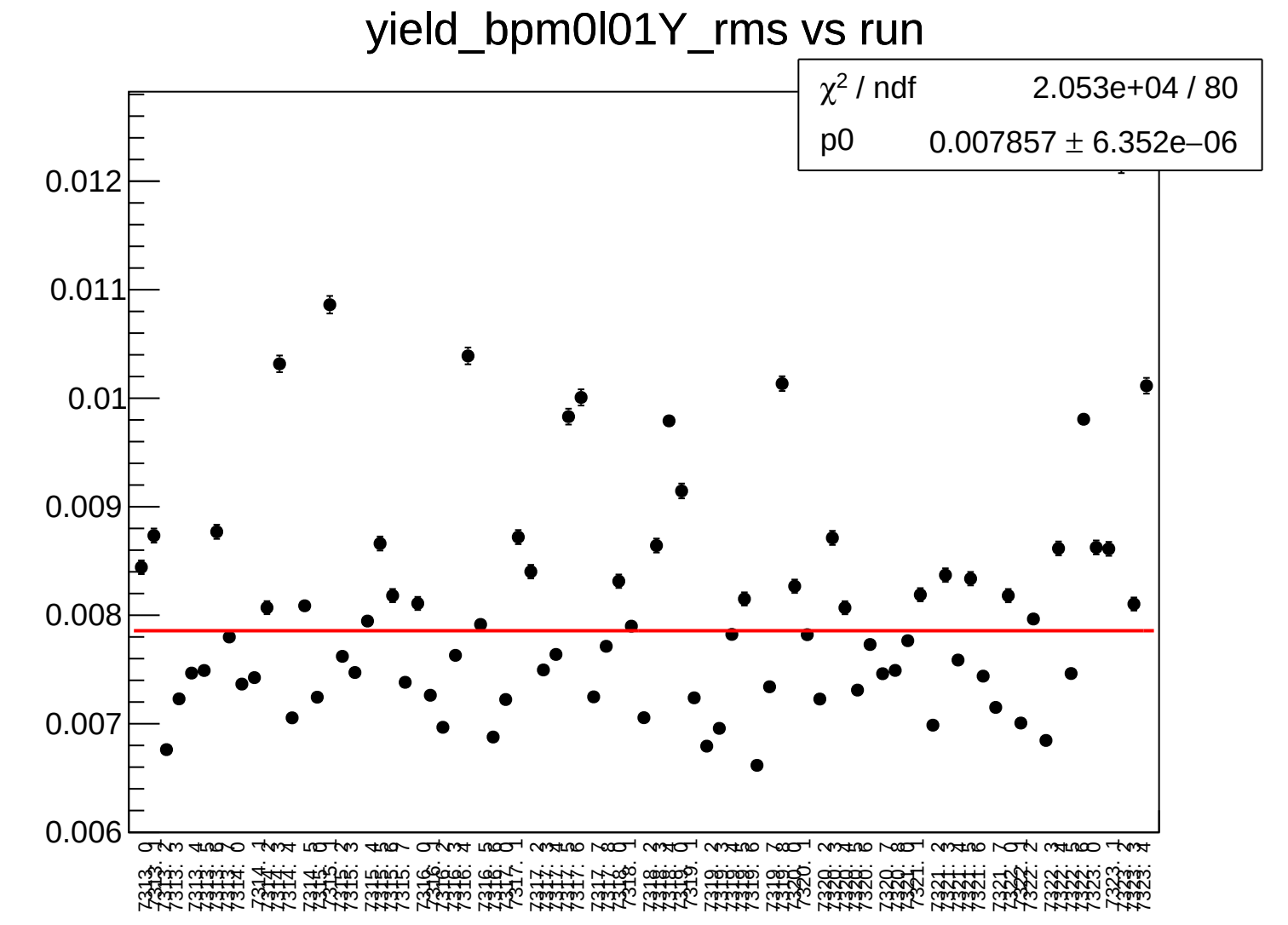

yield_bpm0l01X_mean vs run
χ² / ndf 1.603e+07 / 80
p0 −1.485 ± 7.6e−06
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
pull
Entries 81
Mean 7782
Std Dev 7743
800
600
400
200
0
−200
−400
−600
−800

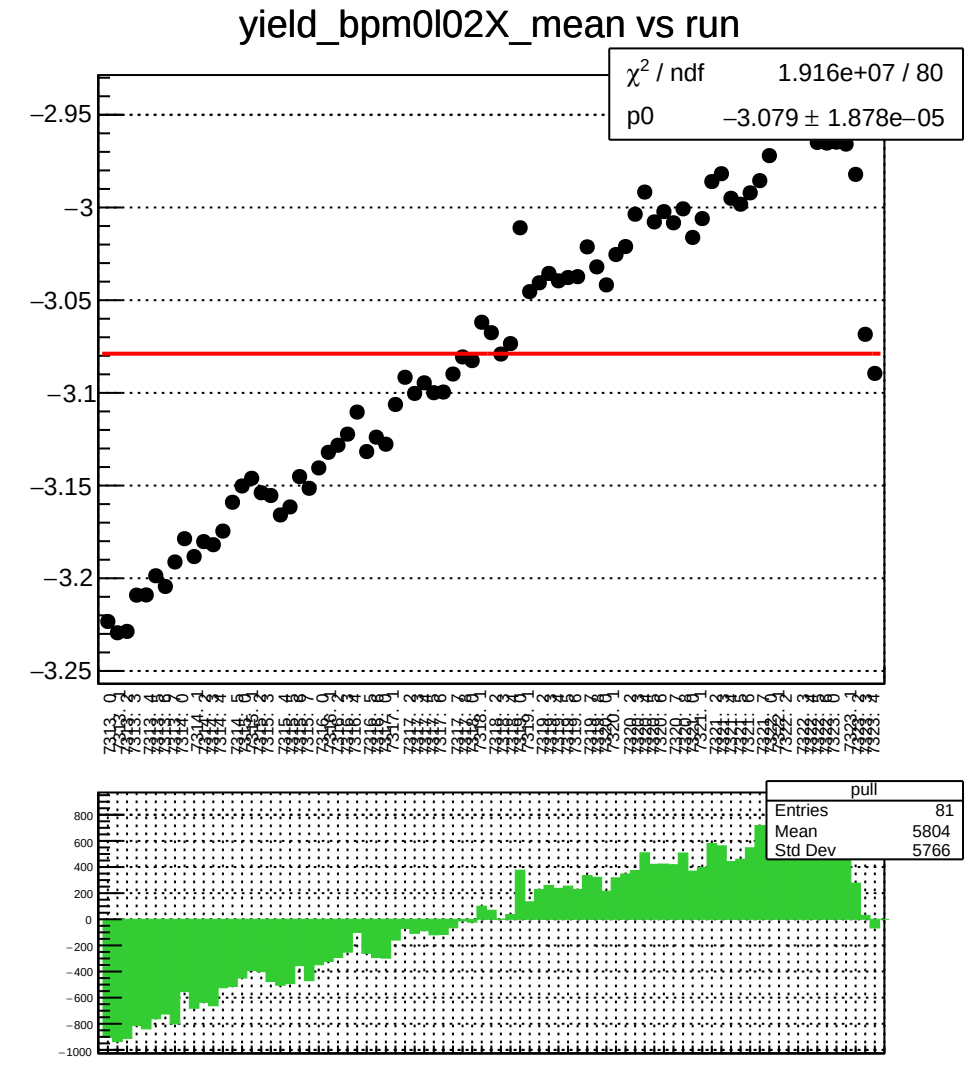

pull1D
Entries 81
Mean 3.317
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

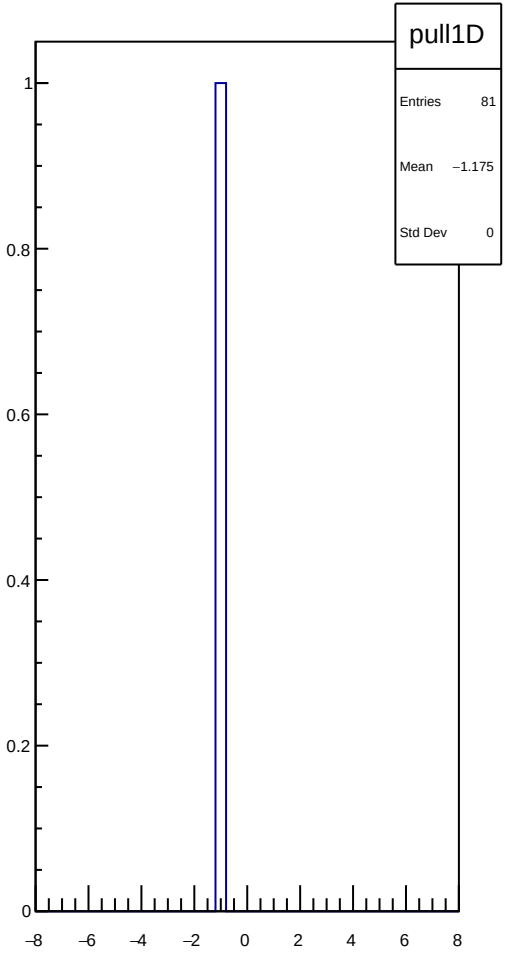

yield_bpm0l01X_rms vs run
χ² / ndf 2.942e+04 / 80
p0 0.006628 ± 5.374e−06
0.016
0.014
0.012
0.01
0.008
0.006

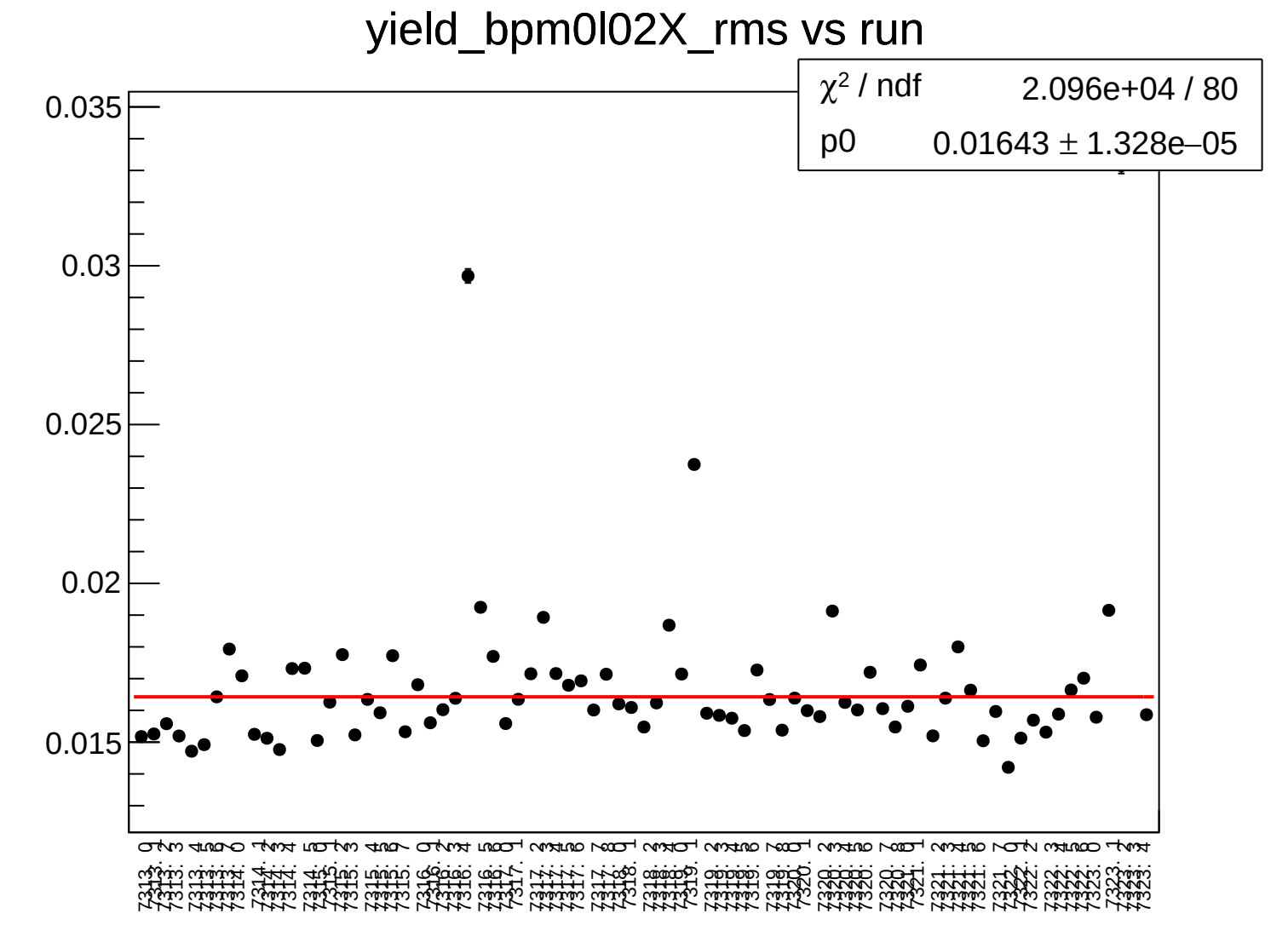

yield_bpm0l01Y_mean vs run
χ² / ndf 1.412e+06 / 80
p0 −5.81 ± 8.982e−06
−5.79
−5.8
−5.81
−5.82
−5.83
−5.84
pull
Entries 81
Mean 713.4
Std Dev 661.9
200
100
0
−100
−200
−300

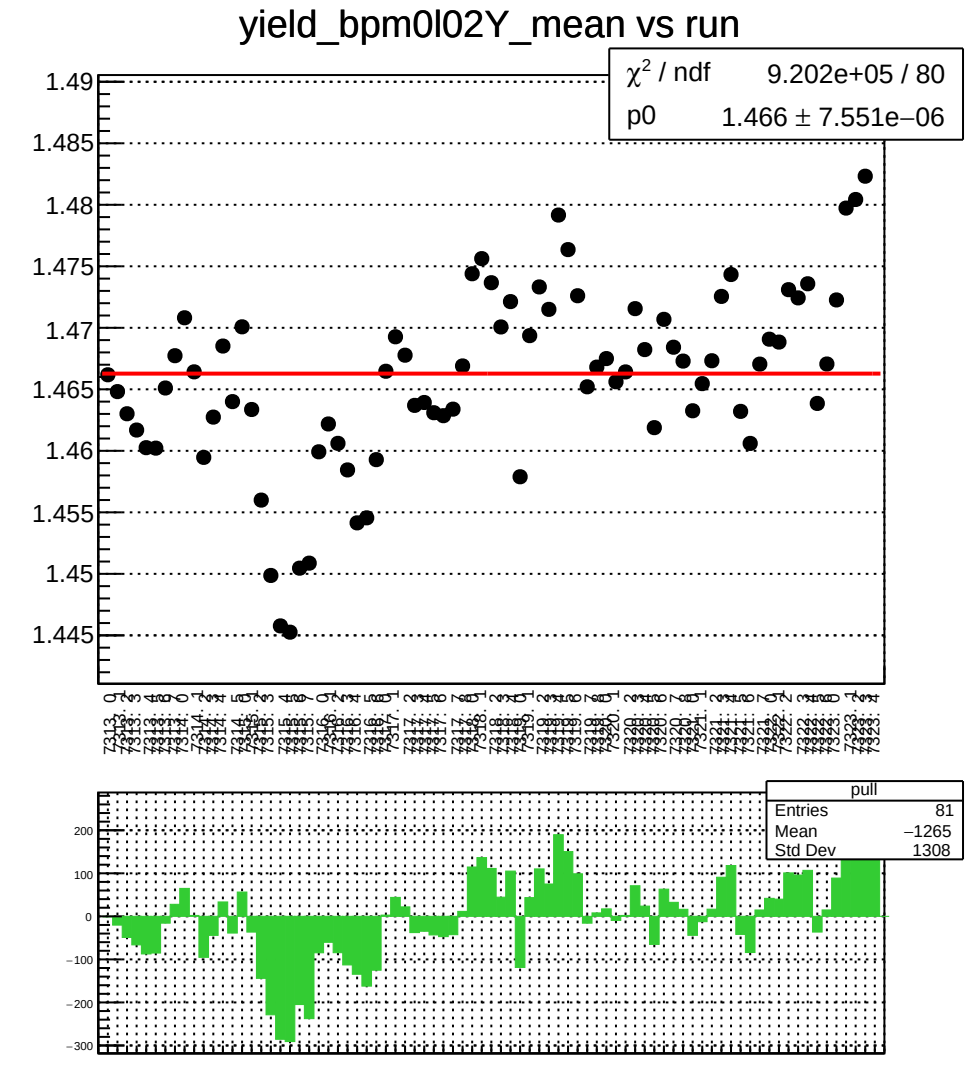

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

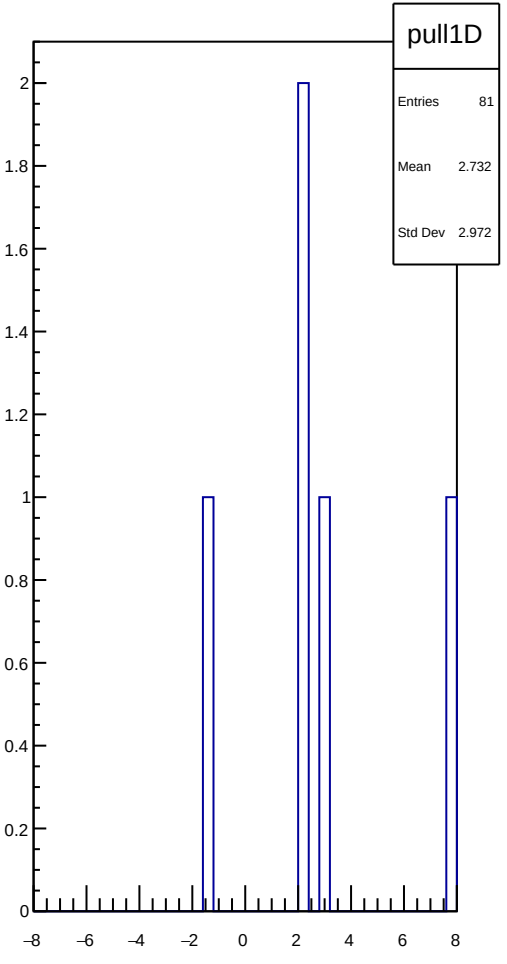

yield_bpm0l01Y_rms vs run
χ² / ndf 2.053e+04 / 80
p0 0.007857 ± 6.352e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

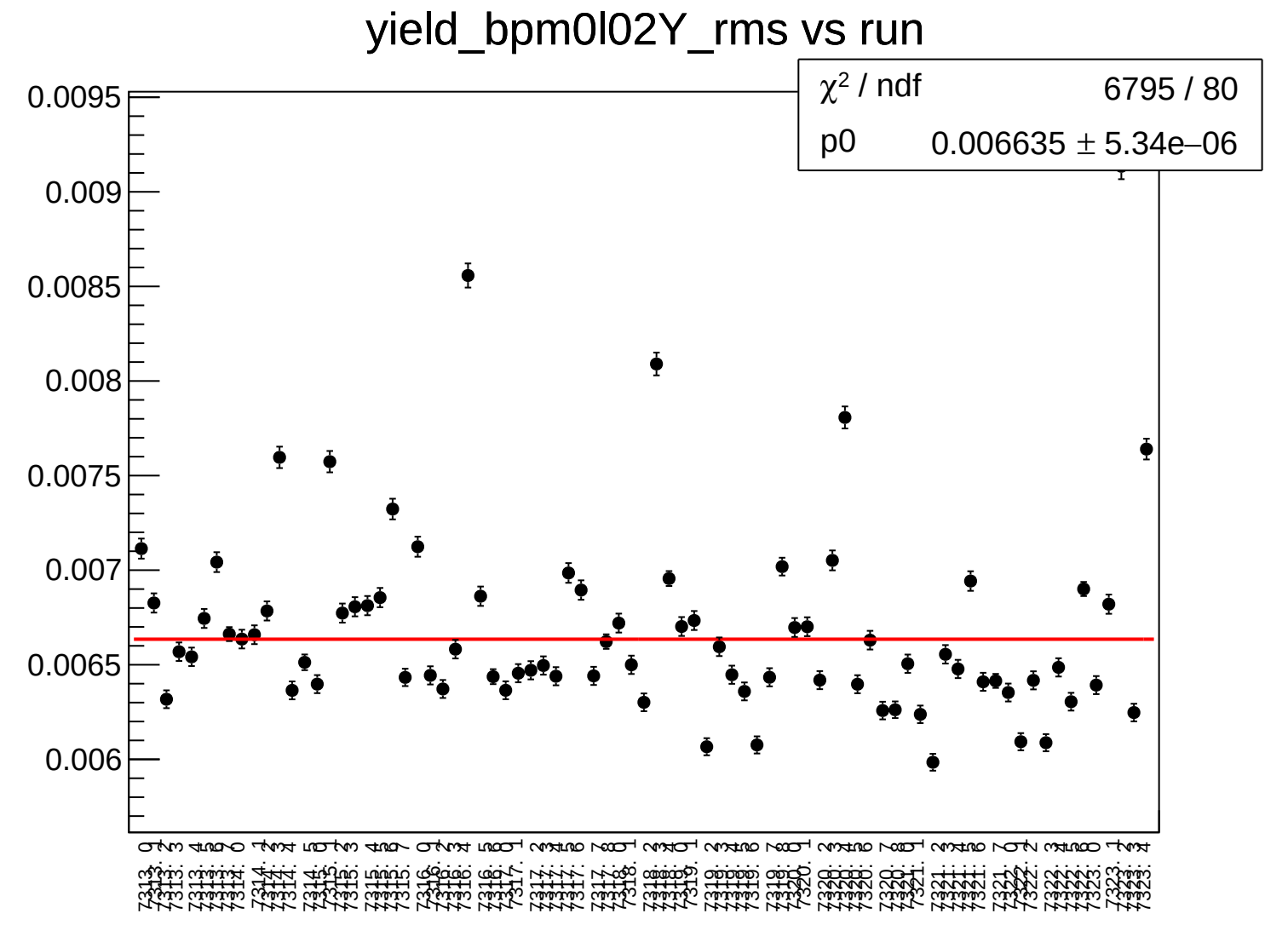

yield_bpm0l02X_mean vs run
χ² / ndf 1.916e+07 / 80
p0 −3.079 ± 1.878e−05
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
pull
Entries 81
Mean 5804
Std Dev 5766
800
600
400
200
0
−200
−400
−600
−800
−1000

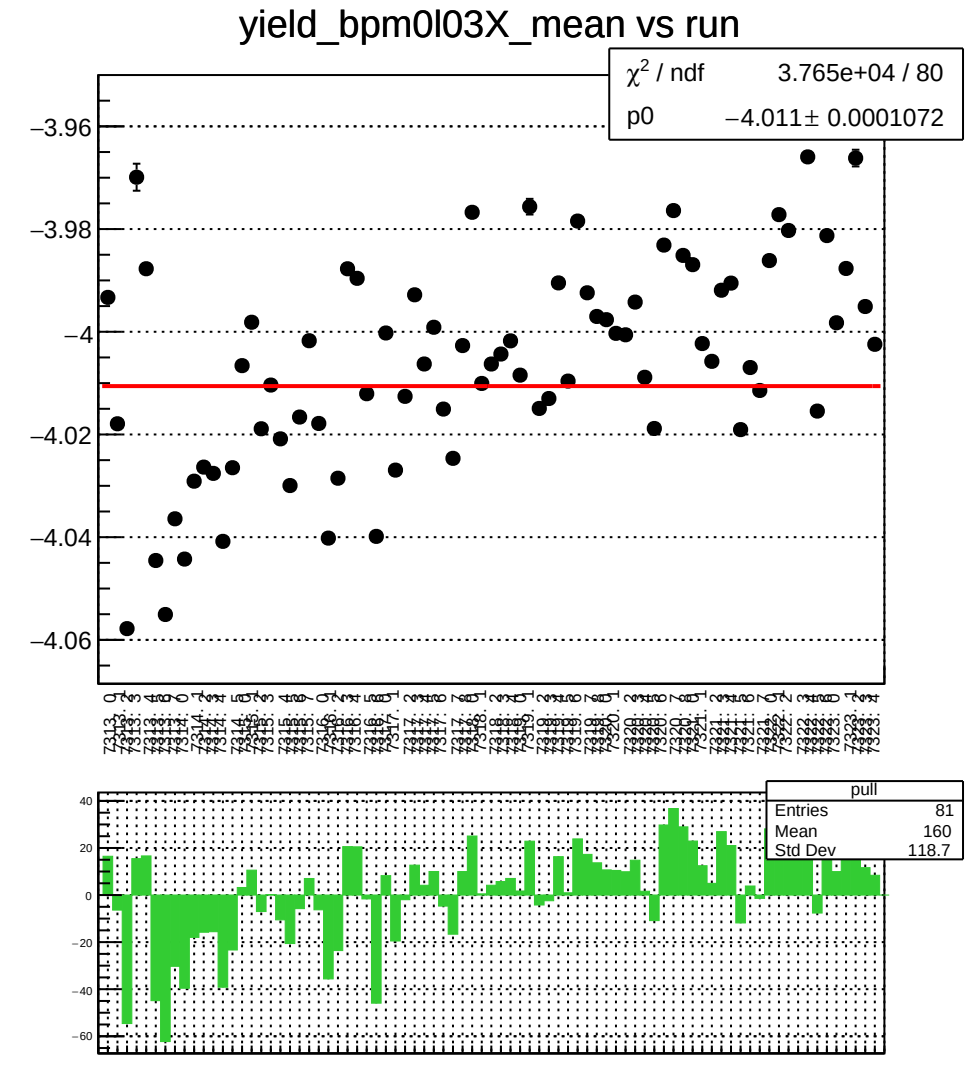

pull1D
Entries 81
Mean −1.175
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

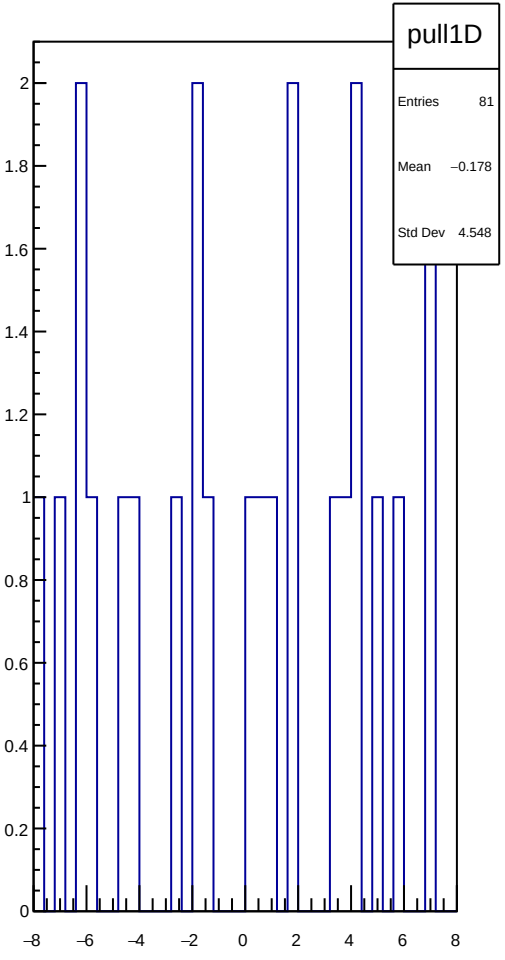

yield_bpm0l02X_rms vs run
χ² / ndf 2.096e+04 / 80
p0 0.01643 ± 1.328e−05
0.035
0.03
0.025
0.02
0.015

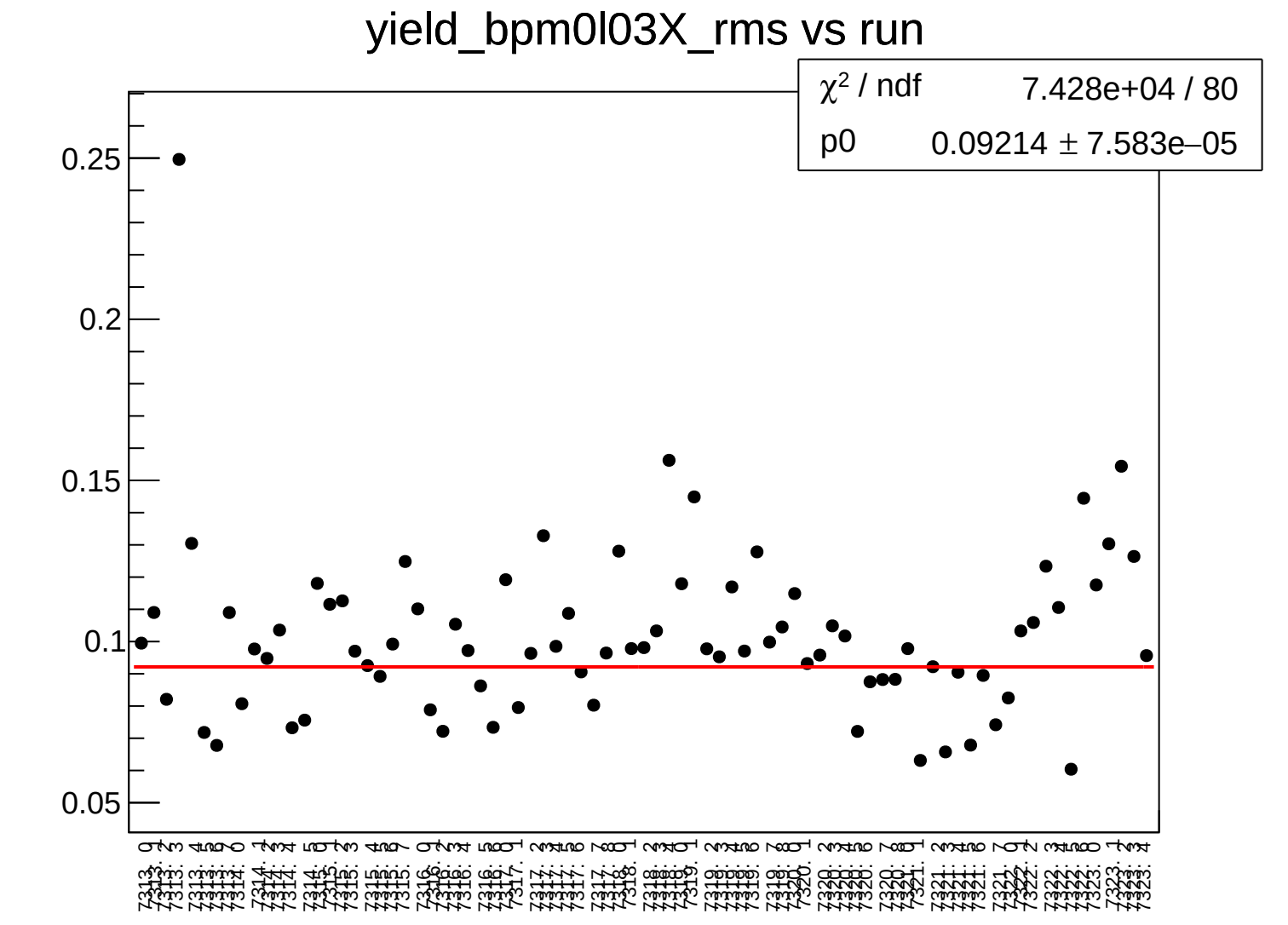

yield_bpm0l02Y_mean vs run
χ² / ndf 9.202e+05 / 80
p0 1.466 ± 7.551e−06
pull
Entries 81
Mean −1265
Std Dev 1308

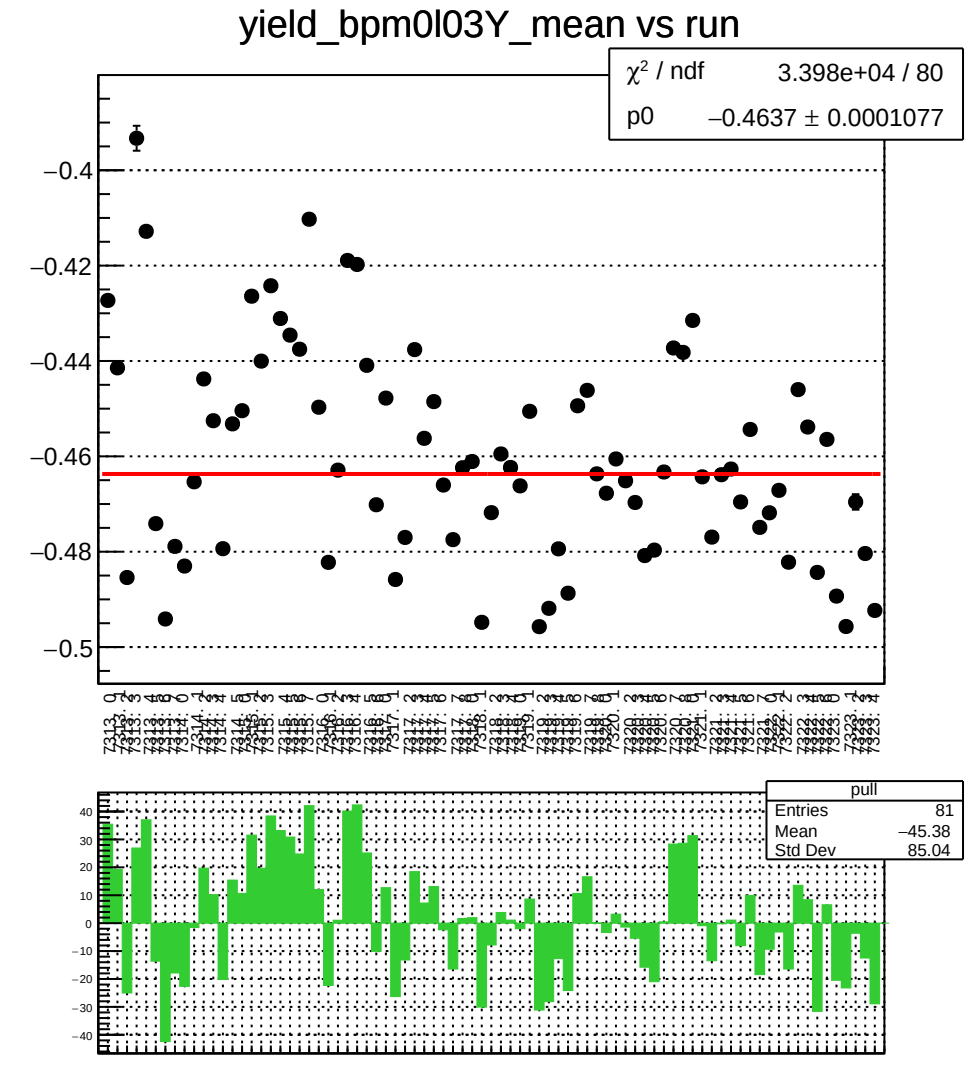

pull1D
Entries 81
Mean 2.732
Std Dev 2.972

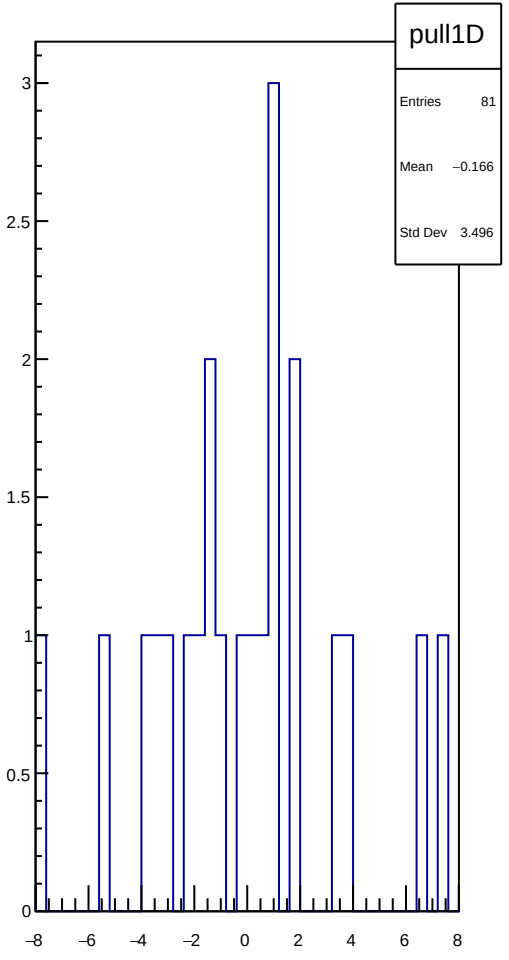

yield_bpm0l02Y_rms vs run
χ² / ndf 6795 / 80
p0 0.006635 ± 5.34e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

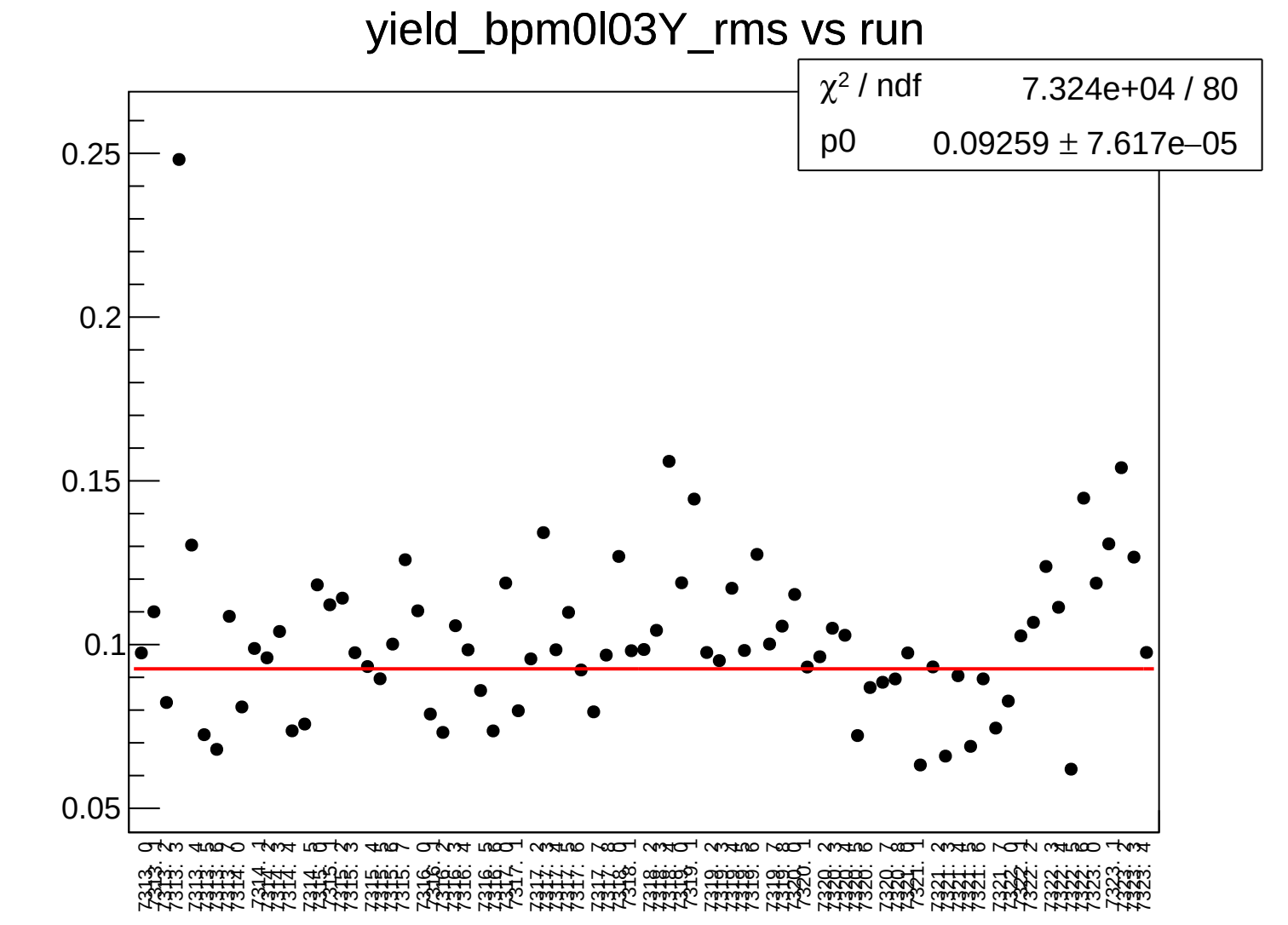

yield_bpm0l03X_mean vs run
χ² / ndf 3.765e+04 / 80
p0 −4.011 ± 0.0001072
−3.96
−3.98
−4
−4.02
−4.04
−4.06
pull
Entries 81
Mean 160
Std Dev 118.7
40
20
0
−20
−40
−60

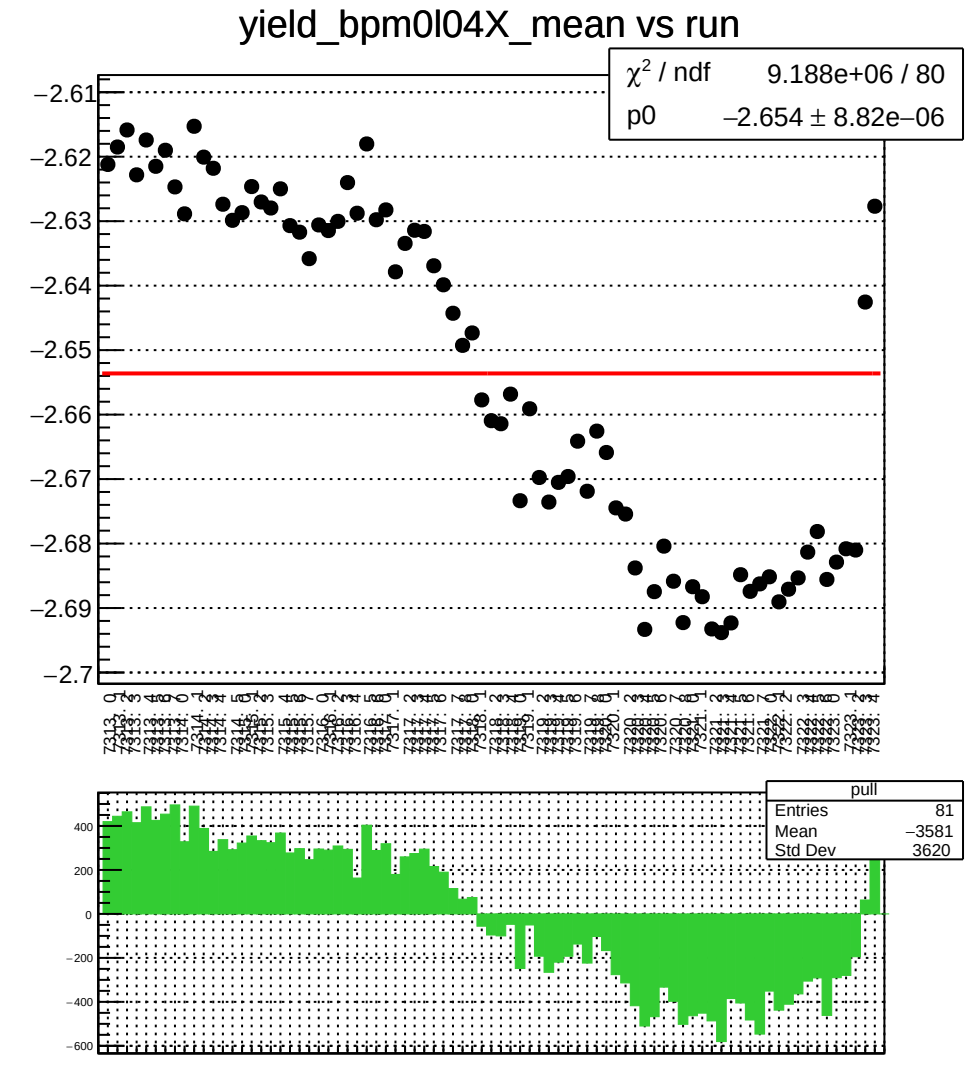

pull1D
Entries 81
Mean −0.178
Std Dev 4.548
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

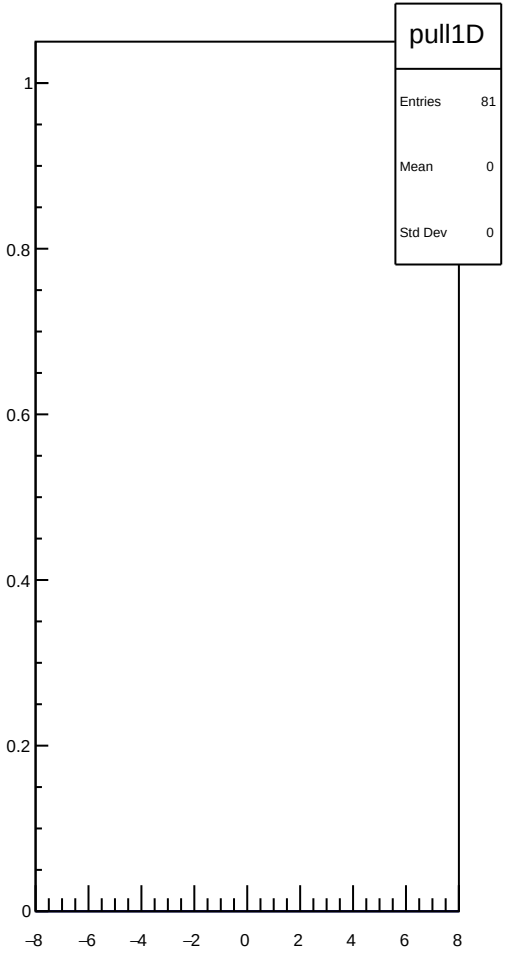

yield_bpm0l03X_rms vs run
χ² / ndf 7.428e+04 / 80
p0 0.09214 ± 7.583e–05
0.25
0.2
0.15
0.1
0.05

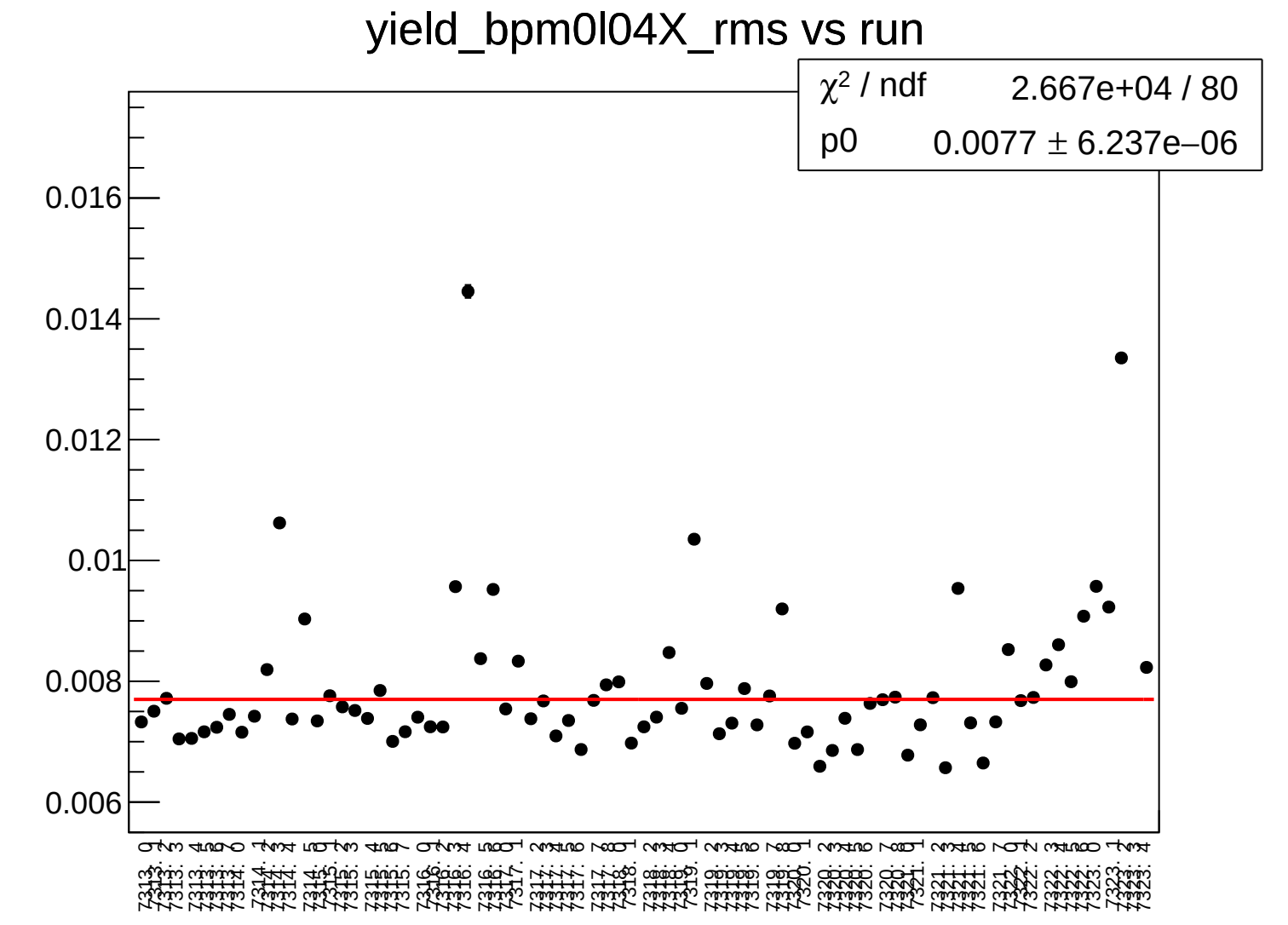

yield_bpm0l03Y_mean vs run
χ² / ndf 3.398e+04 / 80
p0 −0.4637 ± 0.0001077
pull
Entries 81
Mean −45.38
Std Dev 85.04

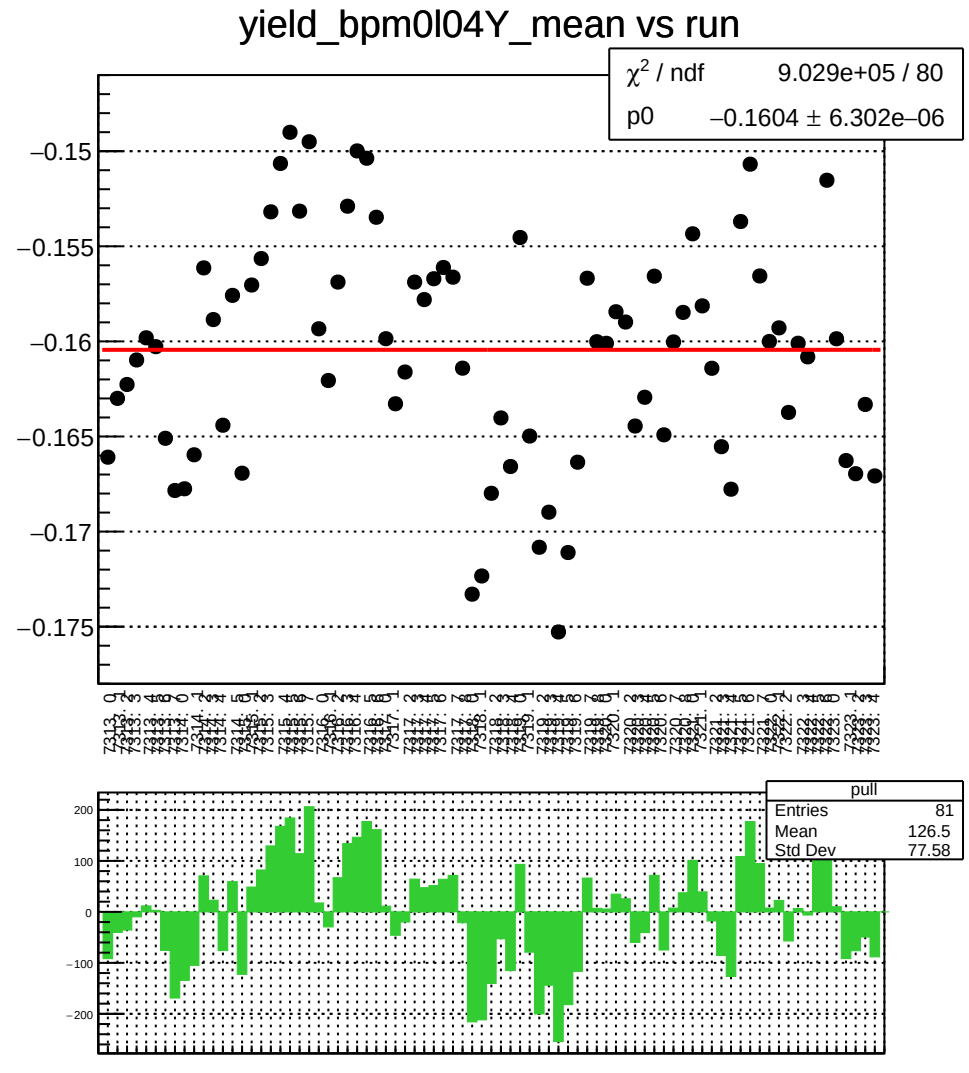

pull1D
Entries 81
Mean −0.166
Std Dev 3.496

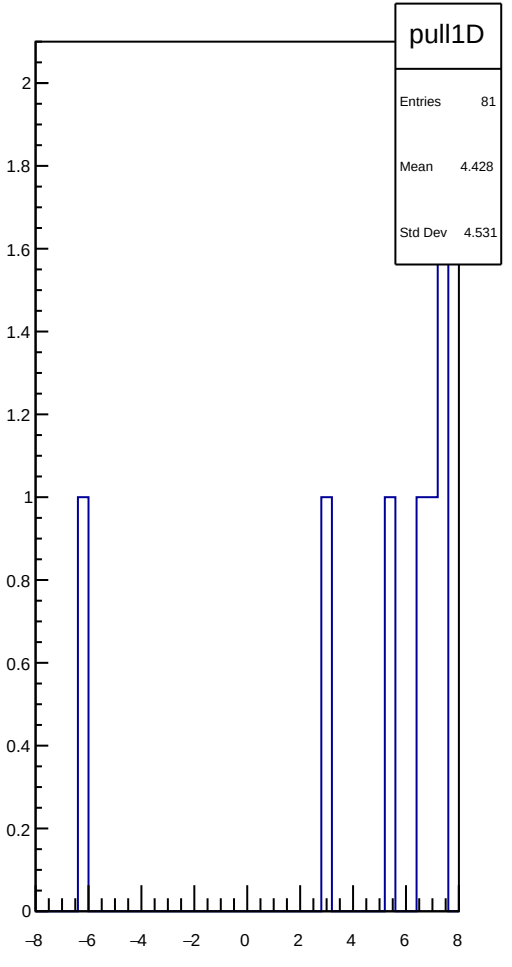

yield_bpm0l03Y_rms vs run
χ² / ndf 7.324e+04 / 80
p0 0.09259 ± 7.617e–05
0.25
0.2
0.15
0.1
0.05

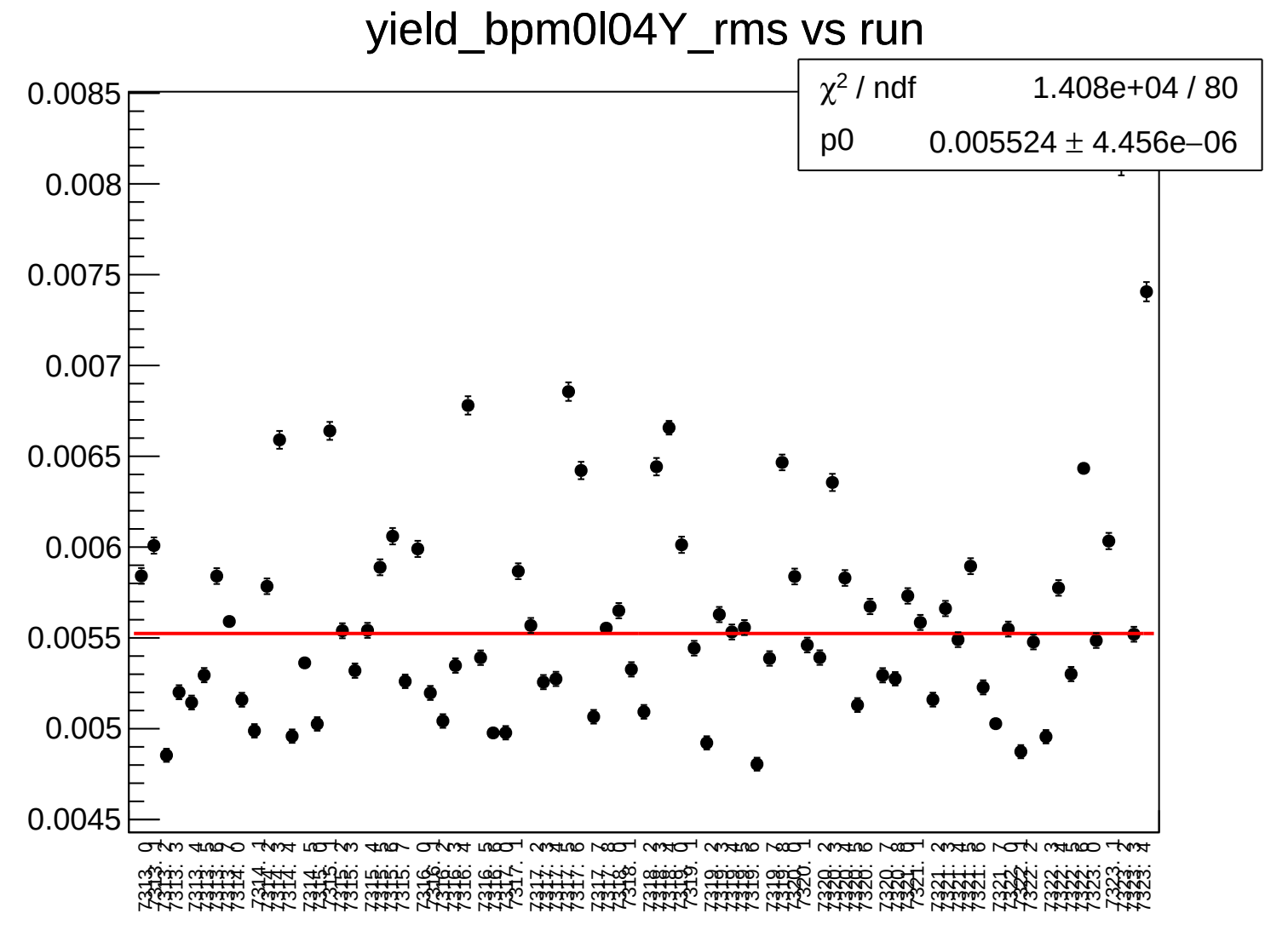

yield_bpm0l04X_mean vs run
χ² / ndf 9.188e+06 / 80
p0 −2.654 ± 8.82e−06
−2.61
−2.62
−2.63
−2.64
−2.65
−2.66
−2.67
−2.68
−2.69
−2.7
pull
Entries 81
Mean −3581
Std Dev 3620
400
200
0
−200
−400
−600

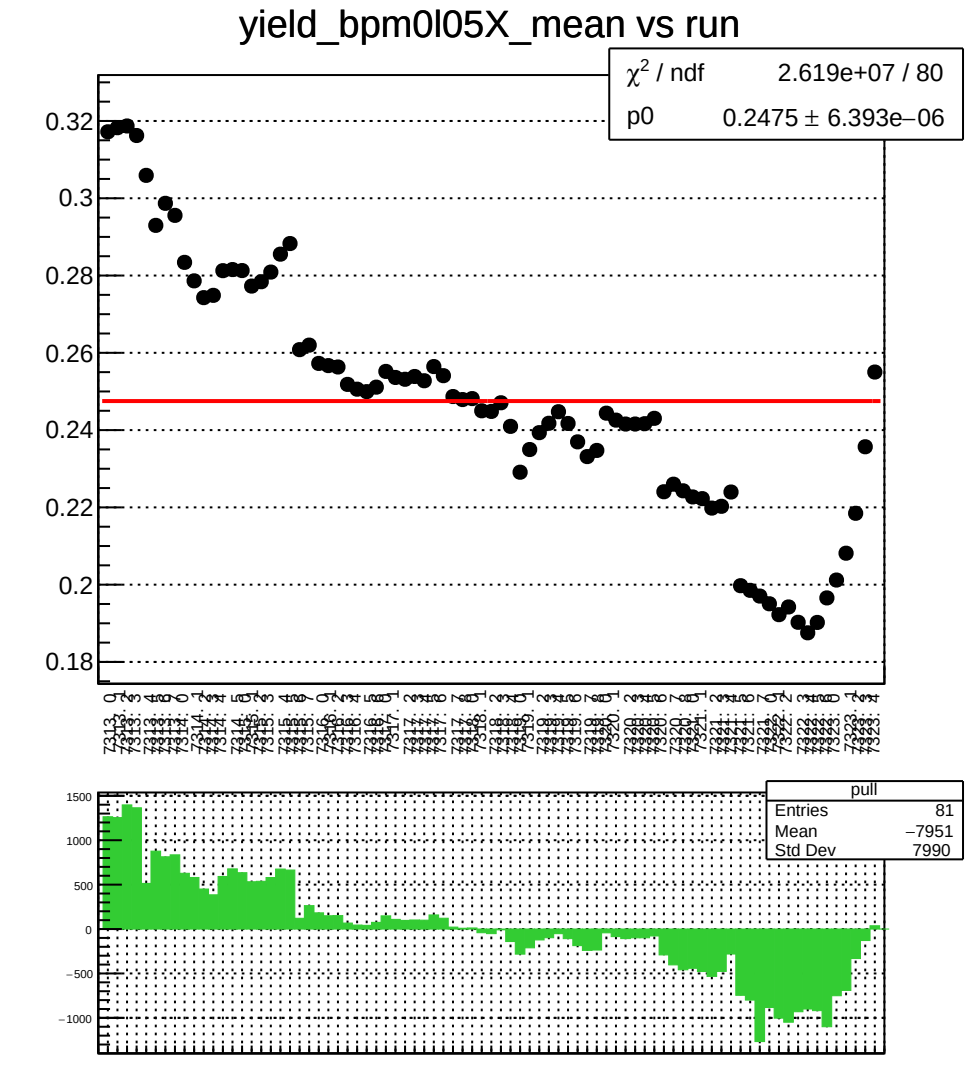

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

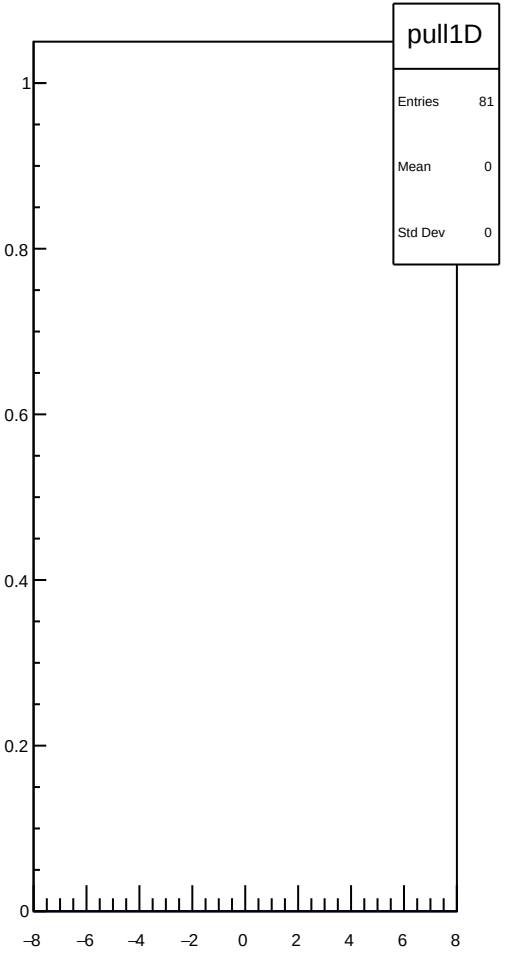

yield_bpm0l04X_rms vs run
χ² / ndf 2.667e+04 / 80
p0 0.0077 ± 6.237e−06
0.016
0.014
0.012
0.01
0.008
0.006

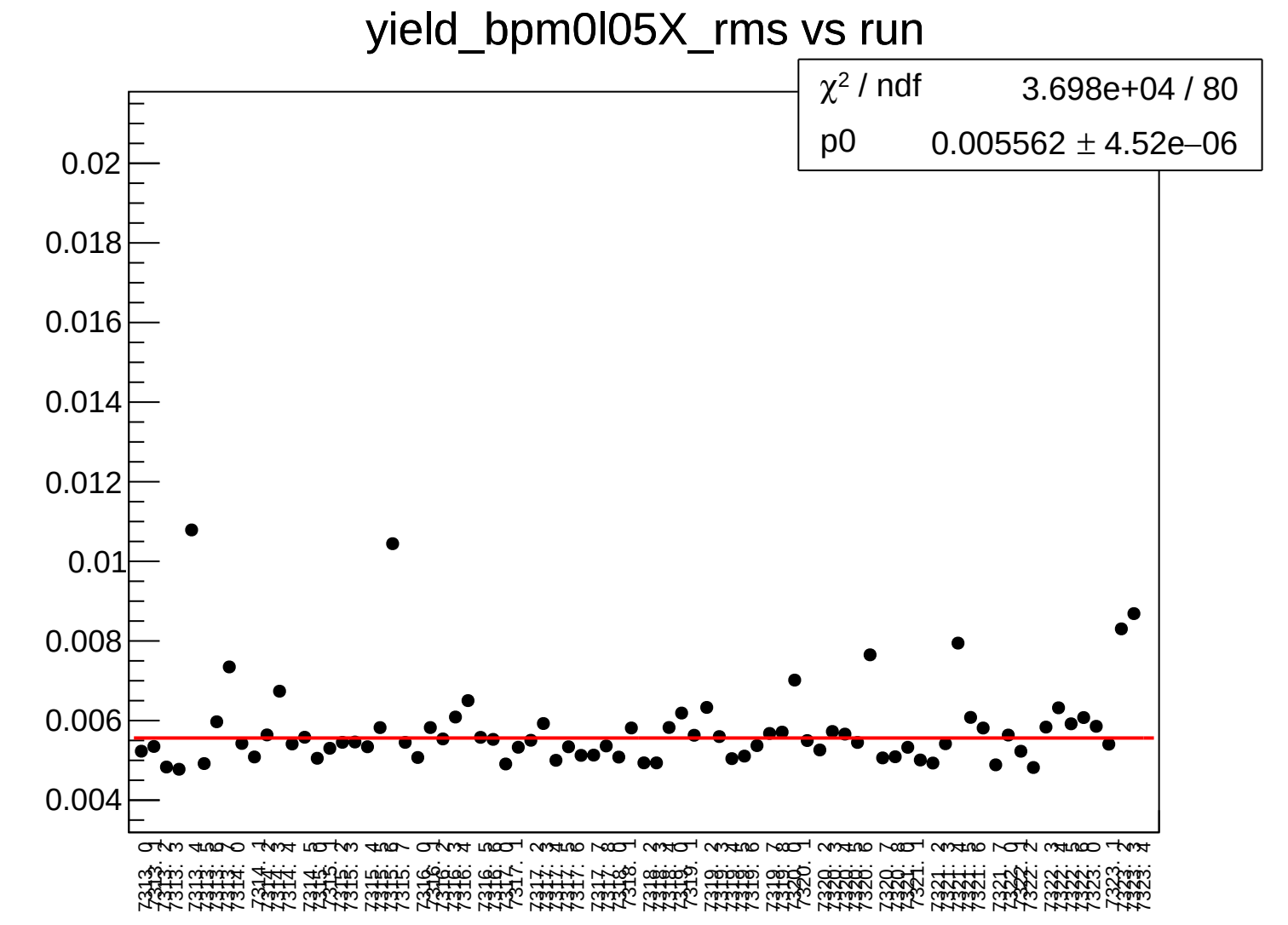

yield_bpm0l04Y_mean vs run
χ² / ndf 9.029e+05 / 80
p0 −0.1604 ± 6.302e−06
−0.15
−0.155
−0.16
−0.165
−0.17
−0.175
pull
Entries 81
Mean 126.5
Std Dev 77.58
200
100
0
−100
−200

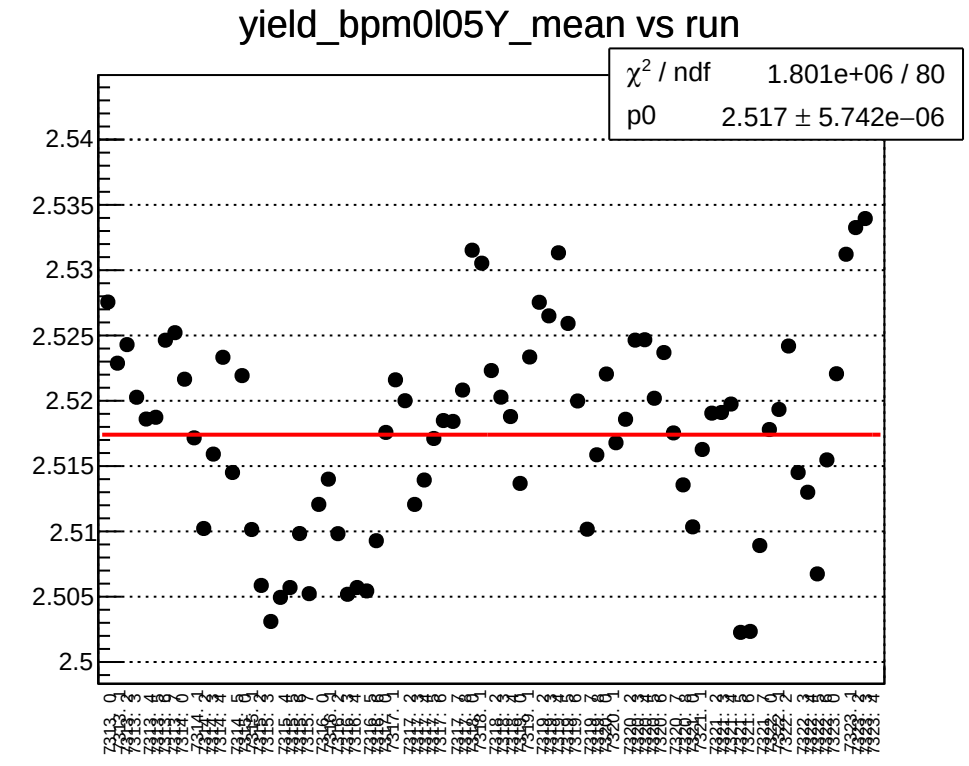

pull1D
Entries 81
Mean 4.428
Std Dev 4.531
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

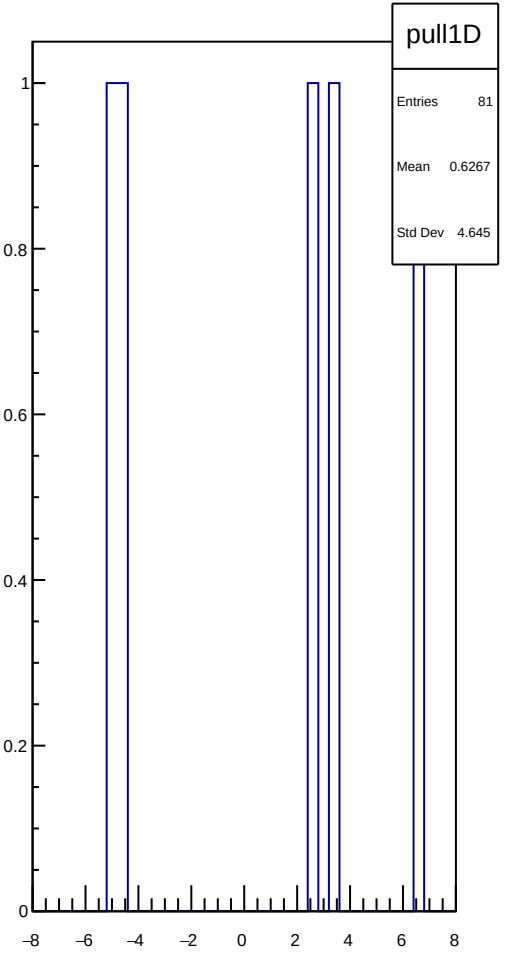

yield_bpm0l04Y_rms vs run
χ² / ndf 1.408e+04 / 80
p0 0.005524 ± 4.456e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

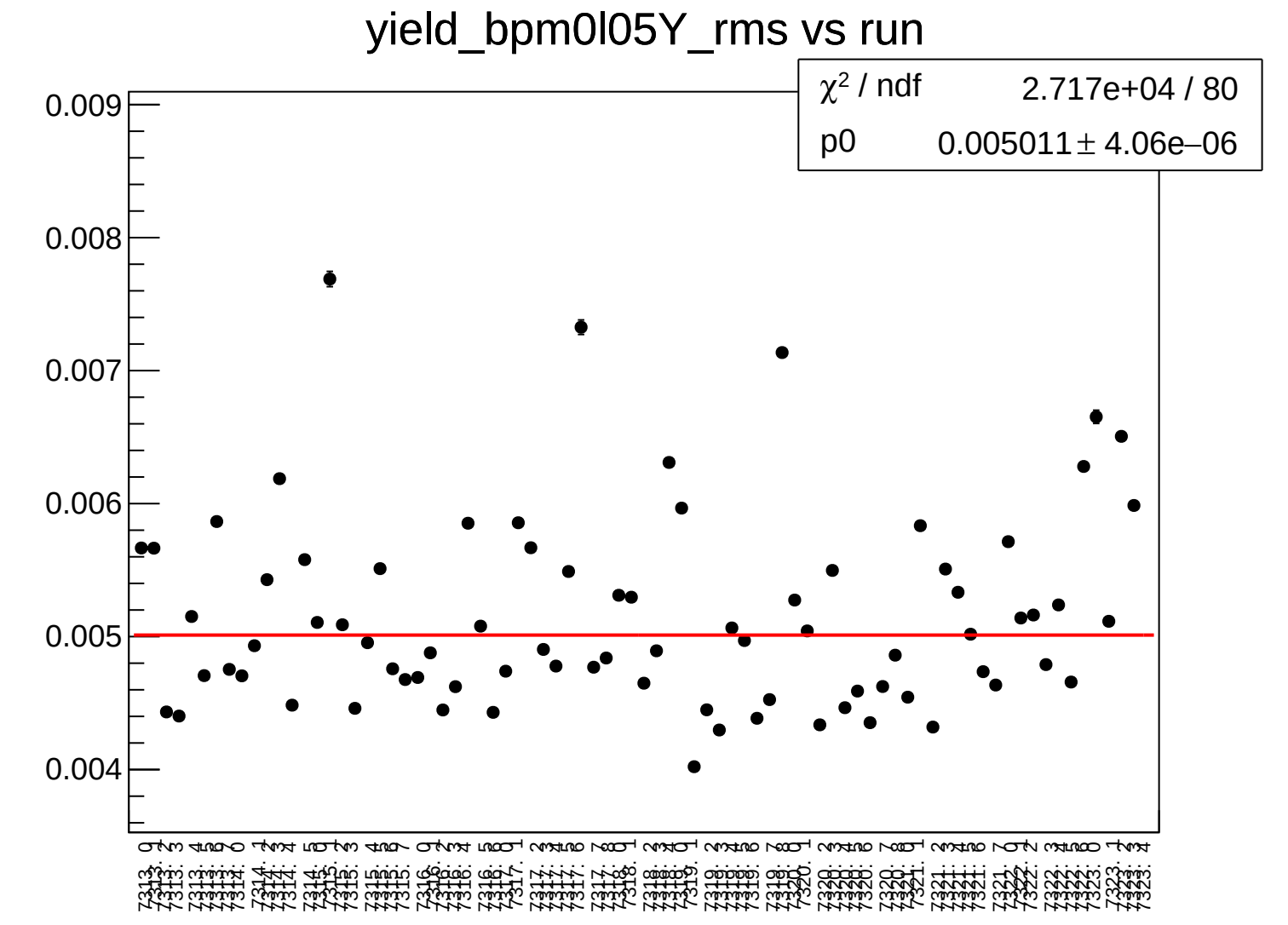

yield_bpm0l05X_mean vs run
χ² / ndf 2.619e+07 / 80
p0 0.2475 ± 6.393e−06
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
pull
Entries 81
Mean −7951
Std Dev 7990
1500
1000
500
0
−500
−1000

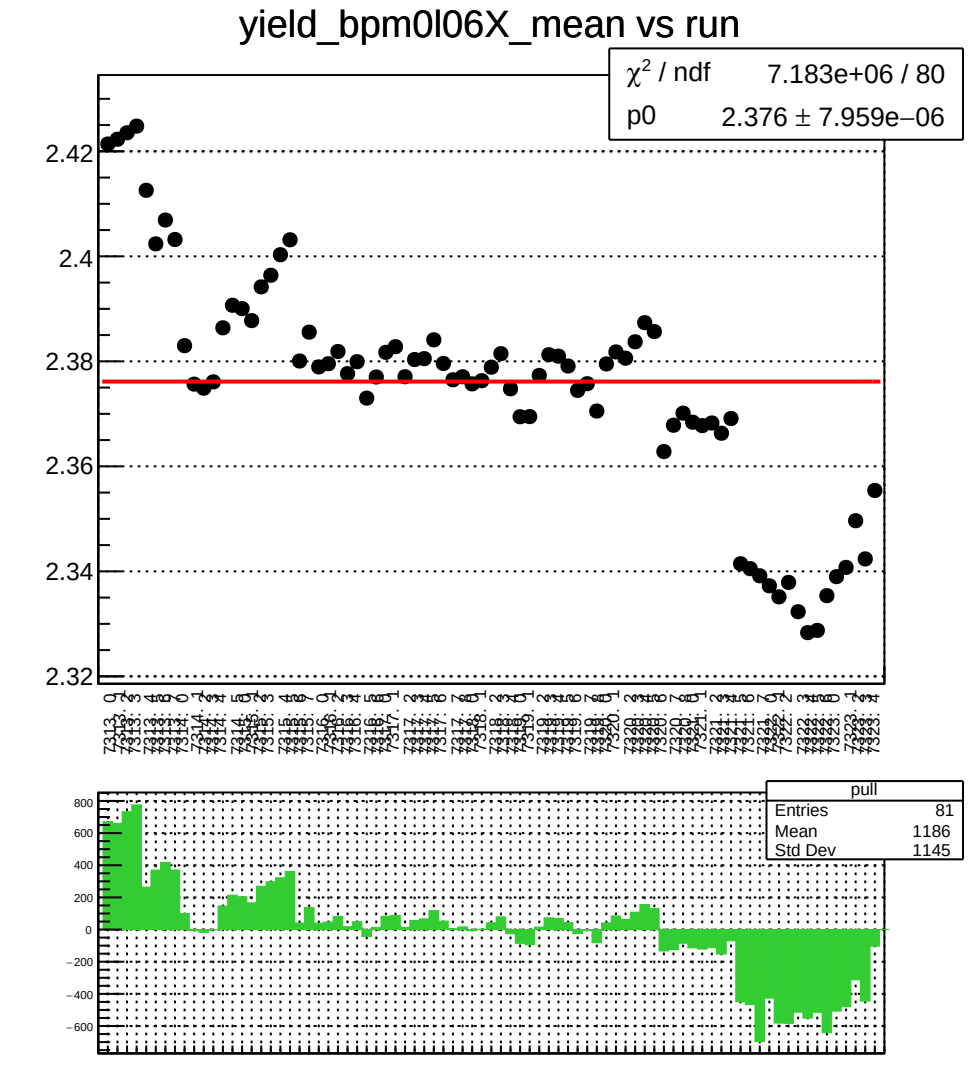

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

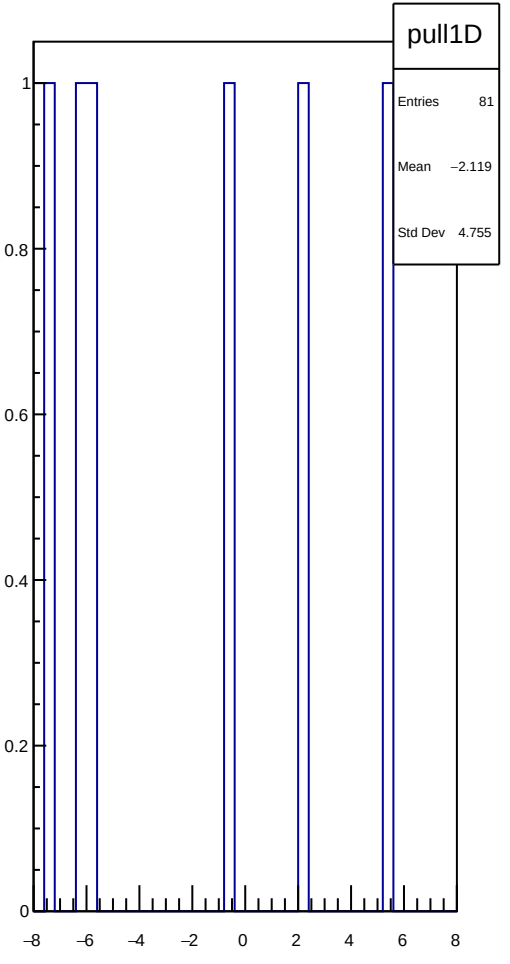

yield_bpm0l05X_rms vs run
χ² / ndf 3.698e+04 / 80
p0 0.005562 ± 4.52e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

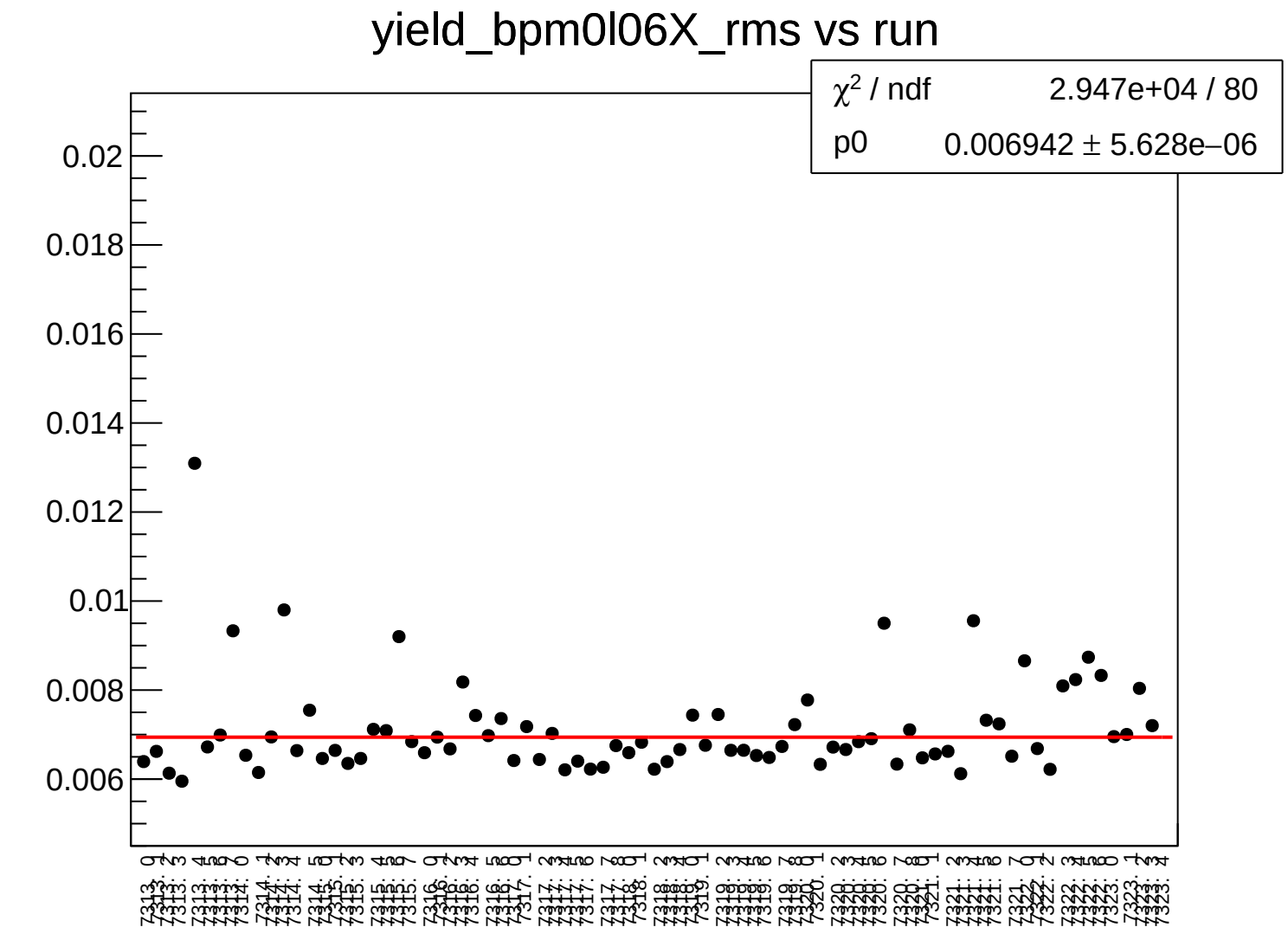

yield_bpm0l05Y_mean vs run
χ² / ndf 1.801e+06 / 80
p0 2.517 ± 5.742e−06
2.54
2.535
2.53
2.525
2.52
2.515
2.51
2.505
2.5
pull
Entries 81
Mean 177.2
Std Dev 121.4
300
200
100
0
−100
−200
−300

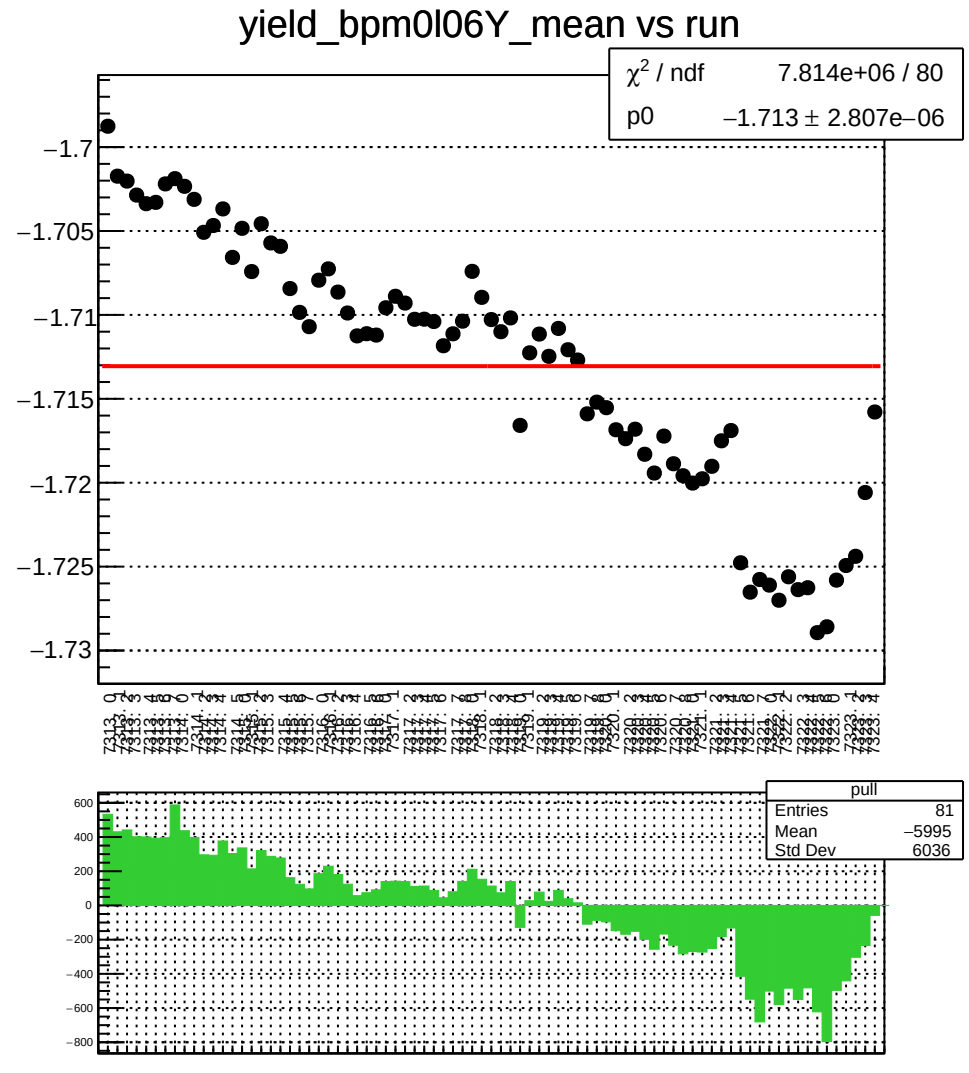

pull1D
Entries 81
Mean 0.6267
Std Dev 4.645
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

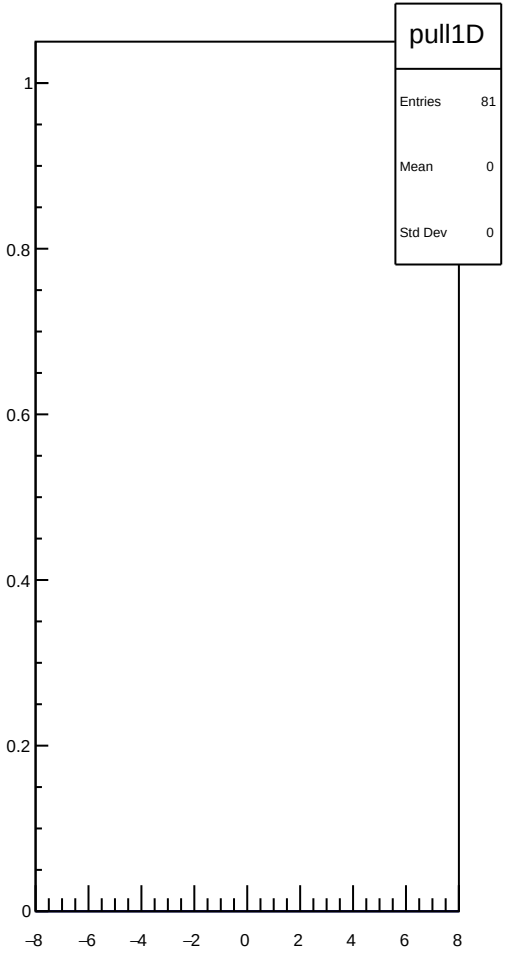

yield_bpm0l05Y_rms vs run
χ² / ndf 2.717e+04 / 80
p0 0.005011 ± 4.06e–06
0.009
0.008
0.007
0.006
0.005
0.004

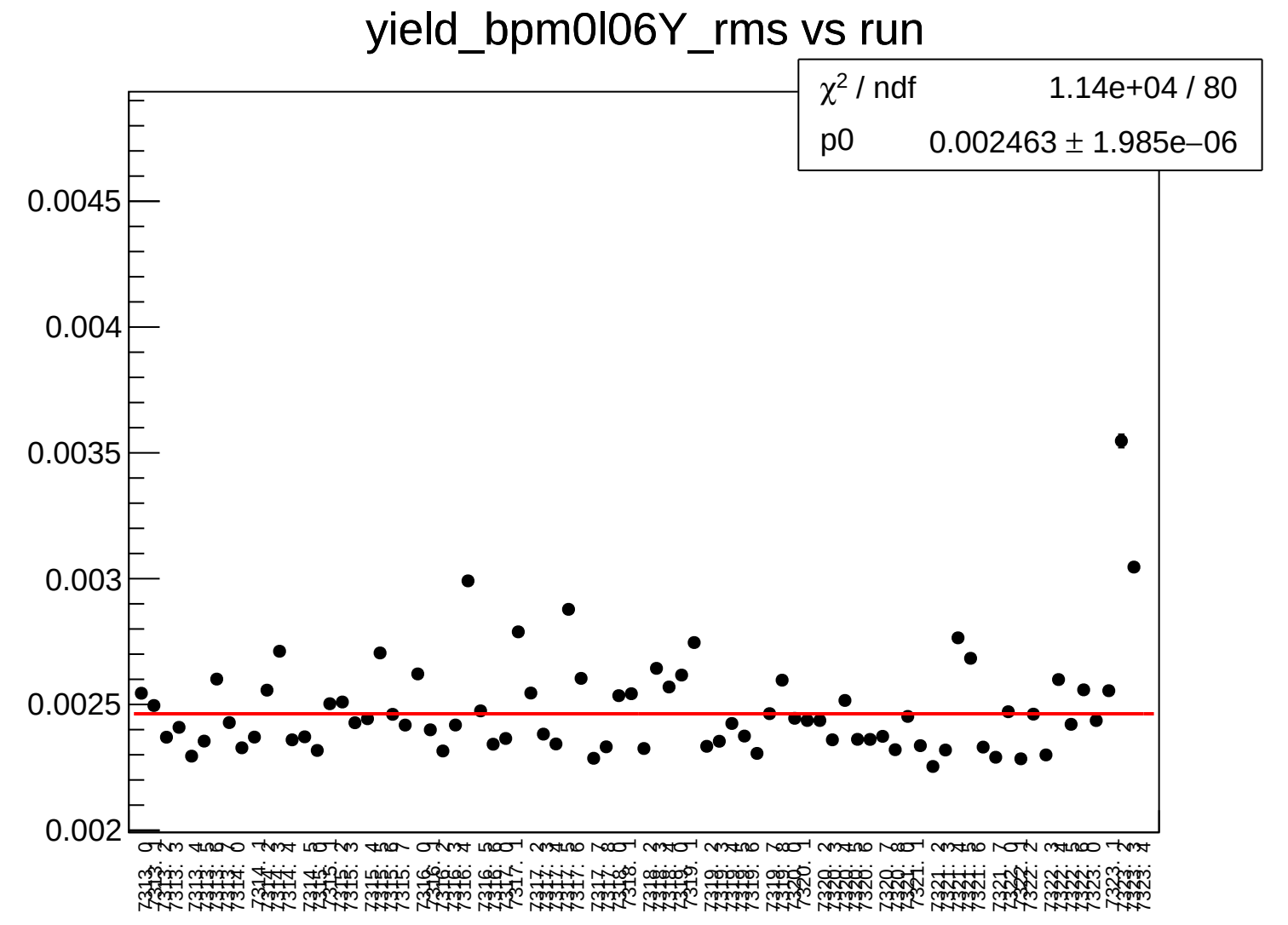

yield_bpm0l06X_mean vs run
χ² / ndf 7.183e+06 / 80
p0 2.376 ± 7.959e−06
2.42
2.4
2.38
2.36
2.34
2.32
pull
Entries 81
Mean 1186
Std Dev 1145
800
600
400
200
0
−200
−400
−600

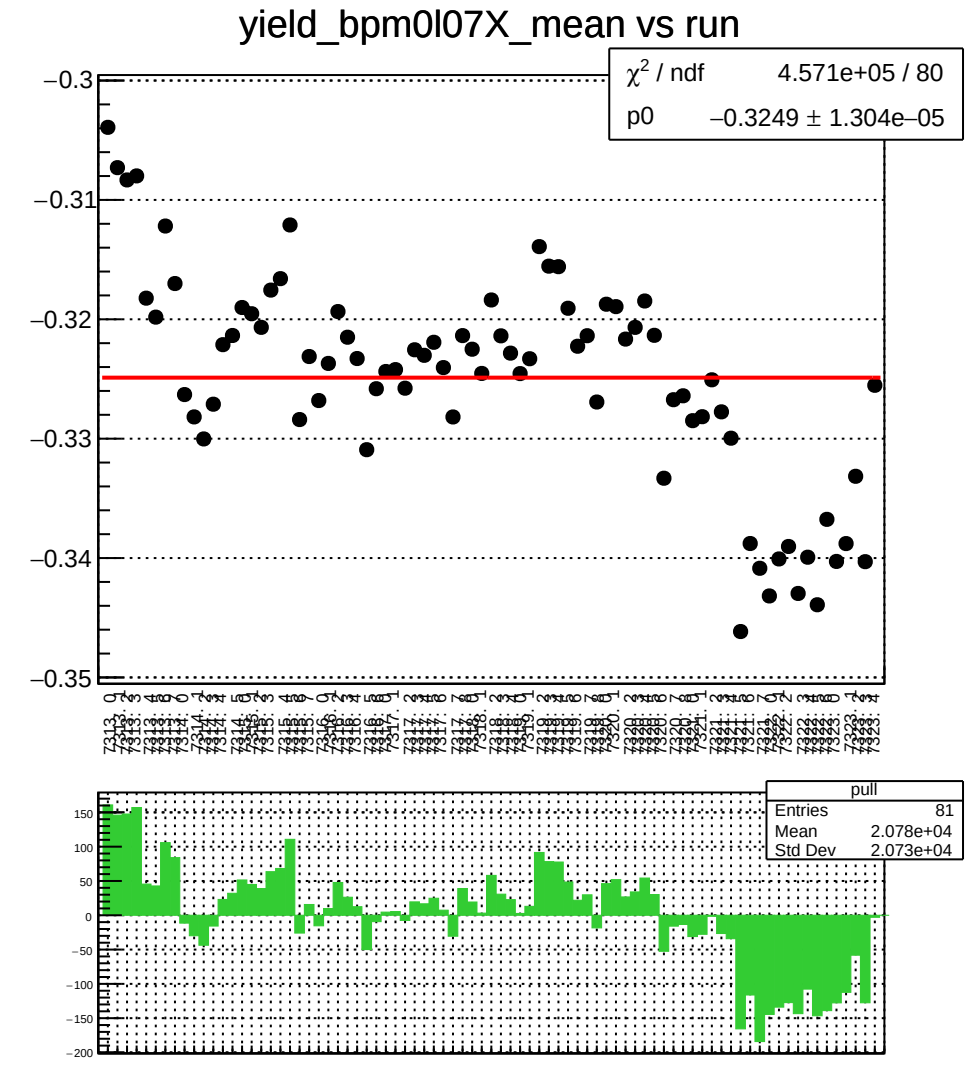

pull1D
Entries 81
Mean −2.119
Std Dev 4.755
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

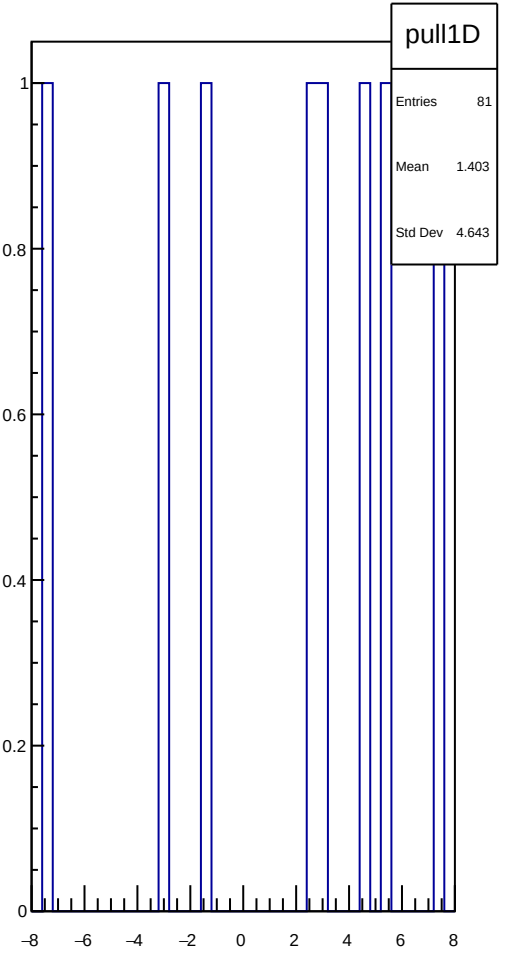

yield_bpm0l06X_rms vs run
χ² / ndf 2.947e+04 / 80
p0 0.006942 ± 5.628e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

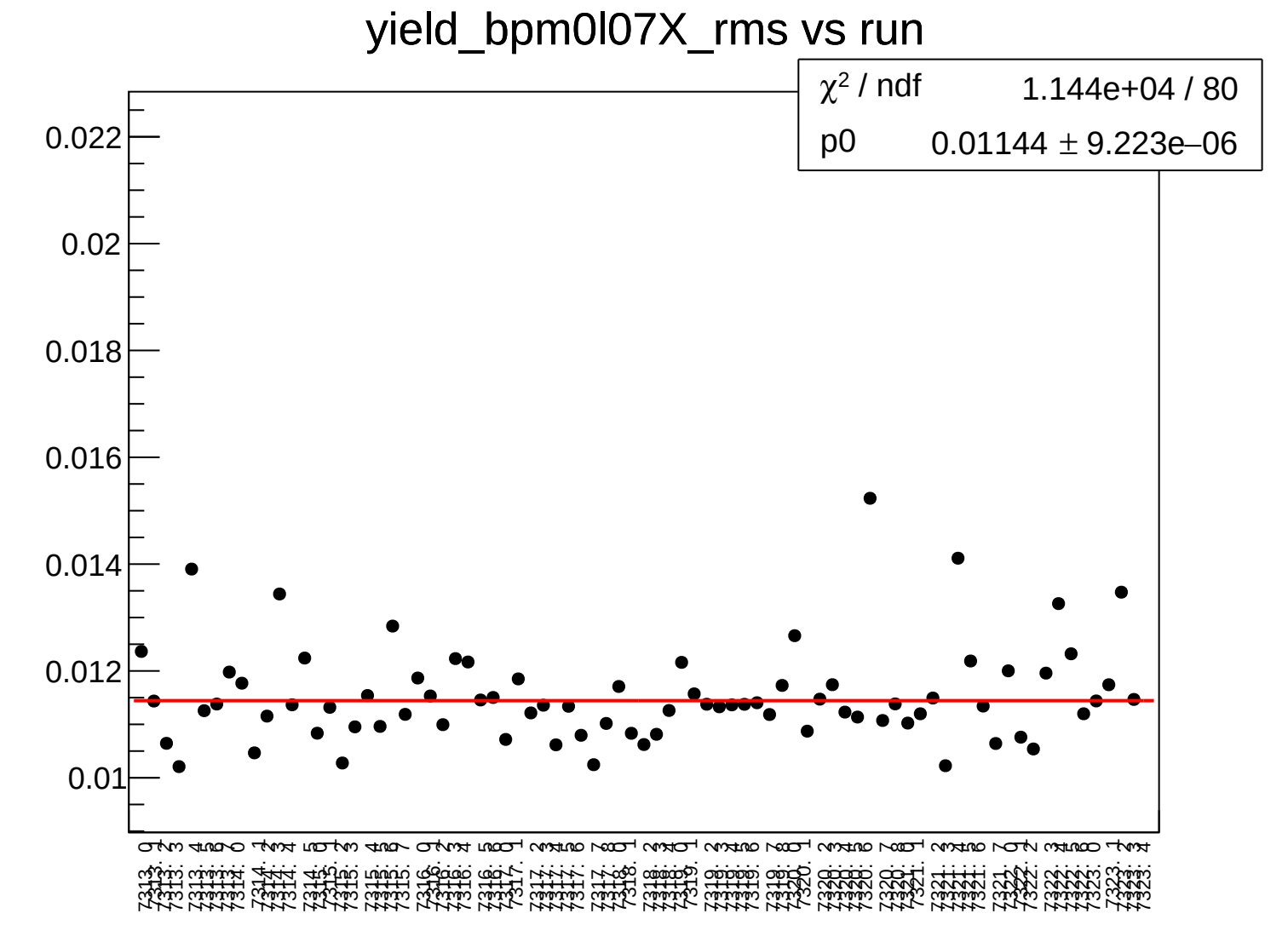

yield_bpm0l06Y_mean vs run
χ² / ndf 7.814e+06 / 80
p0 −1.713 ± 2.807e−06
−1.7
−1.705
−1.71
−1.715
−1.72
−1.725
−1.73
pull
Entries 81
Mean −5995
Std Dev 6036
600
400
200
0
−200
−400
−600
−800

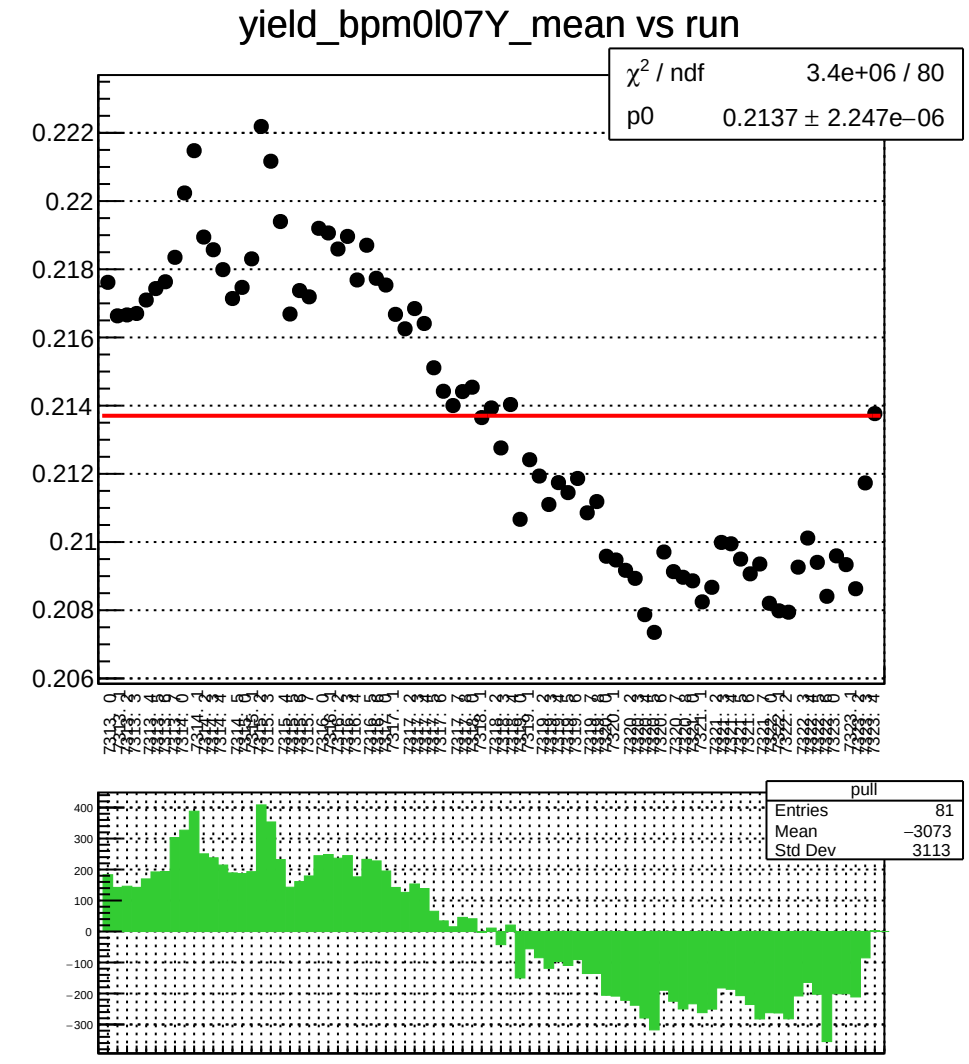

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

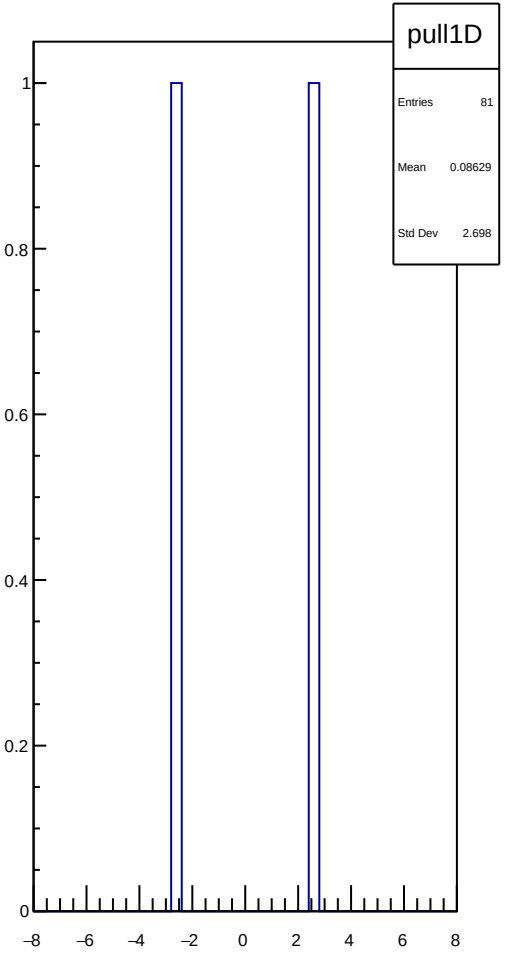

yield_bpm0l06Y_rms vs run
χ² / ndf 1.14e+04 / 80
p0 0.002463 ± 1.985e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

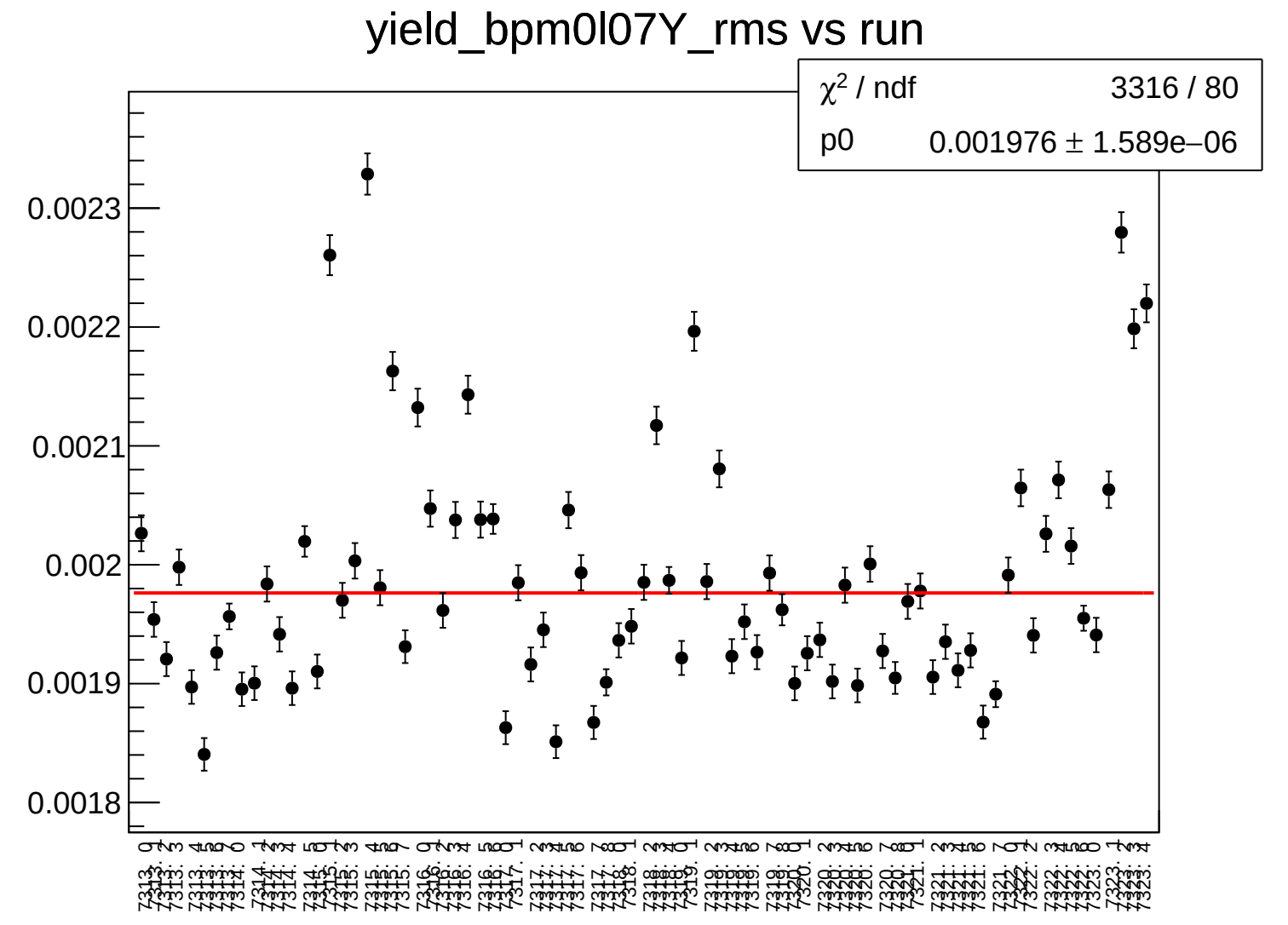

yield_bpm0l07X_mean vs run
χ² / ndf 4.571e+05 / 80
p0 −0.3249 ± 1.304e−05
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
pull
Entries 81
Mean 2.078e+04
Std Dev 2.073e+04
150
100
50
0
−50
−100
−150
−200

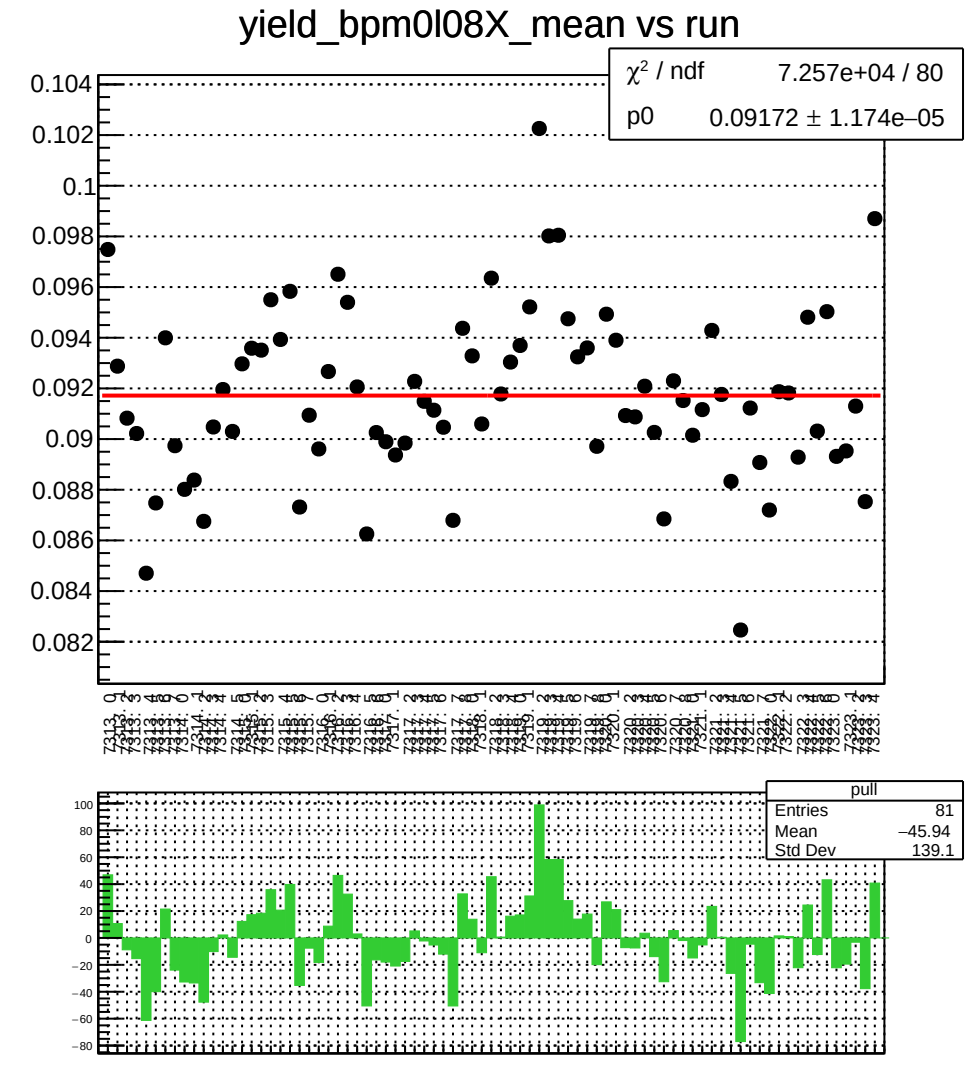

pull1D
Entries 81
Mean 1.403
Std Dev 4.643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

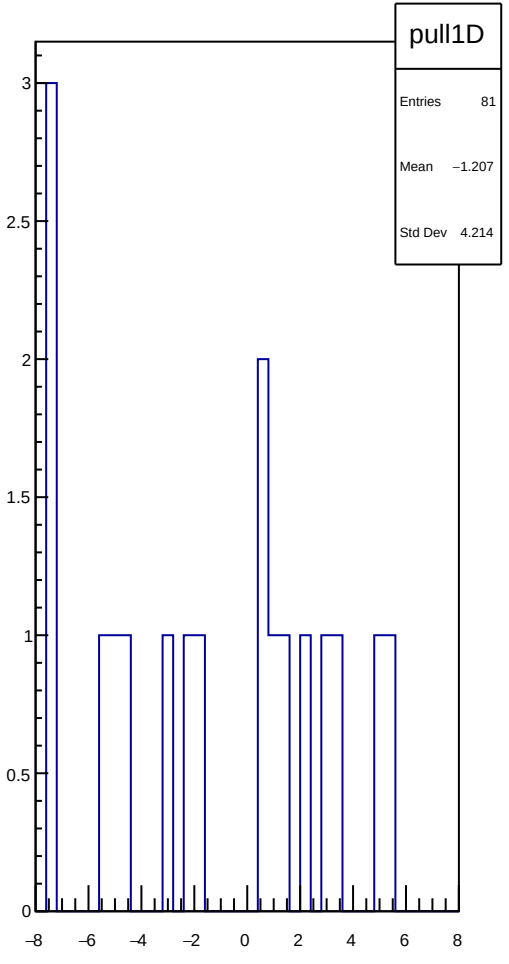

yield_bpm0l07X_rms vs run
χ² / ndf 1.144e+04 / 80
p0 0.01144 ± 9.223e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

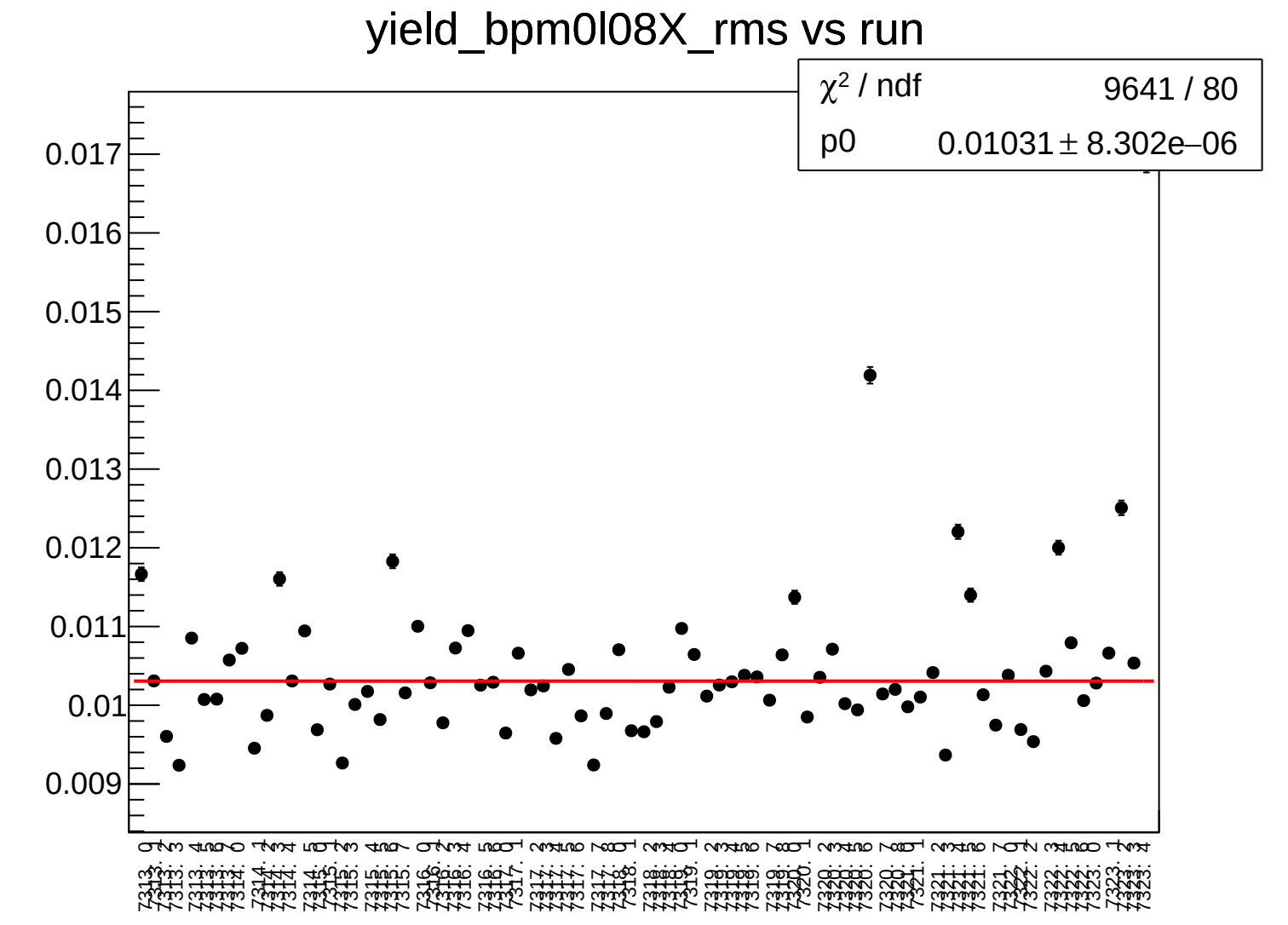

yield_bpm0l07Y_mean vs run
χ² / ndf 3.4e+06 / 80
p0 0.2137 ± 2.247e−06
0.222
0.22
0.218
0.216
0.214
0.212
0.21
0.208
0.206
pull
Entries 81
Mean −3073
Std Dev 3113
400
300
200
100
0
−100
−200
−300

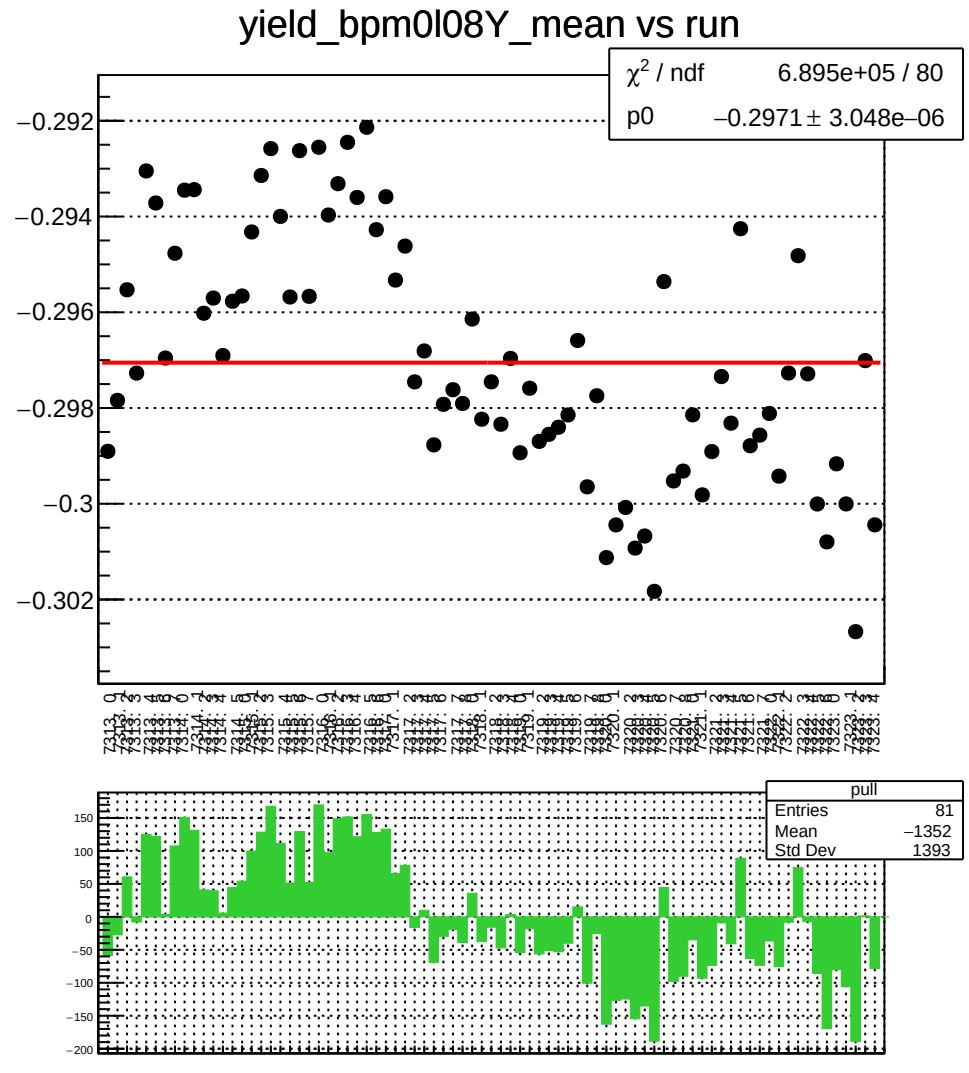

pull1D
Entries 81
Mean 0.08629
Std Dev 2.698
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

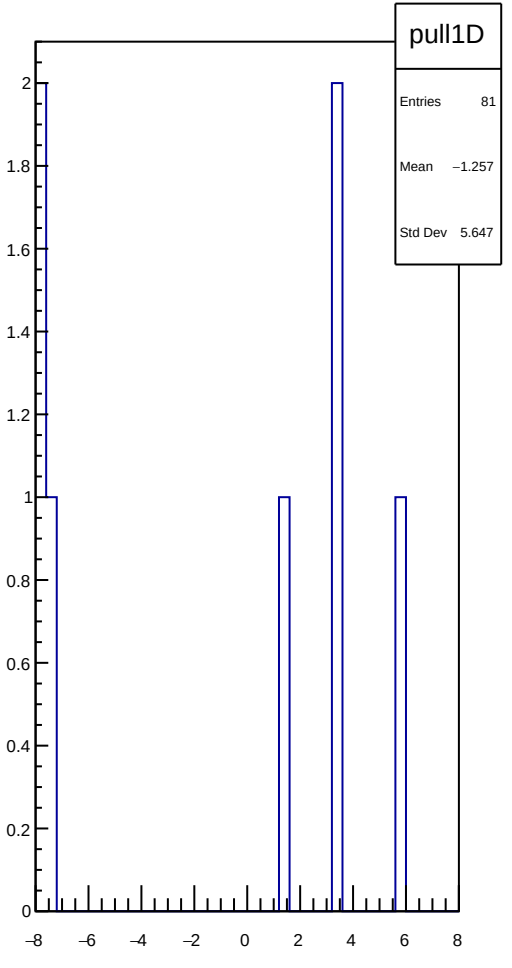

yield_bpm0l07Y_rms vs run
χ² / ndf 3316 / 80
p0 0.001976 ± 1.589e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

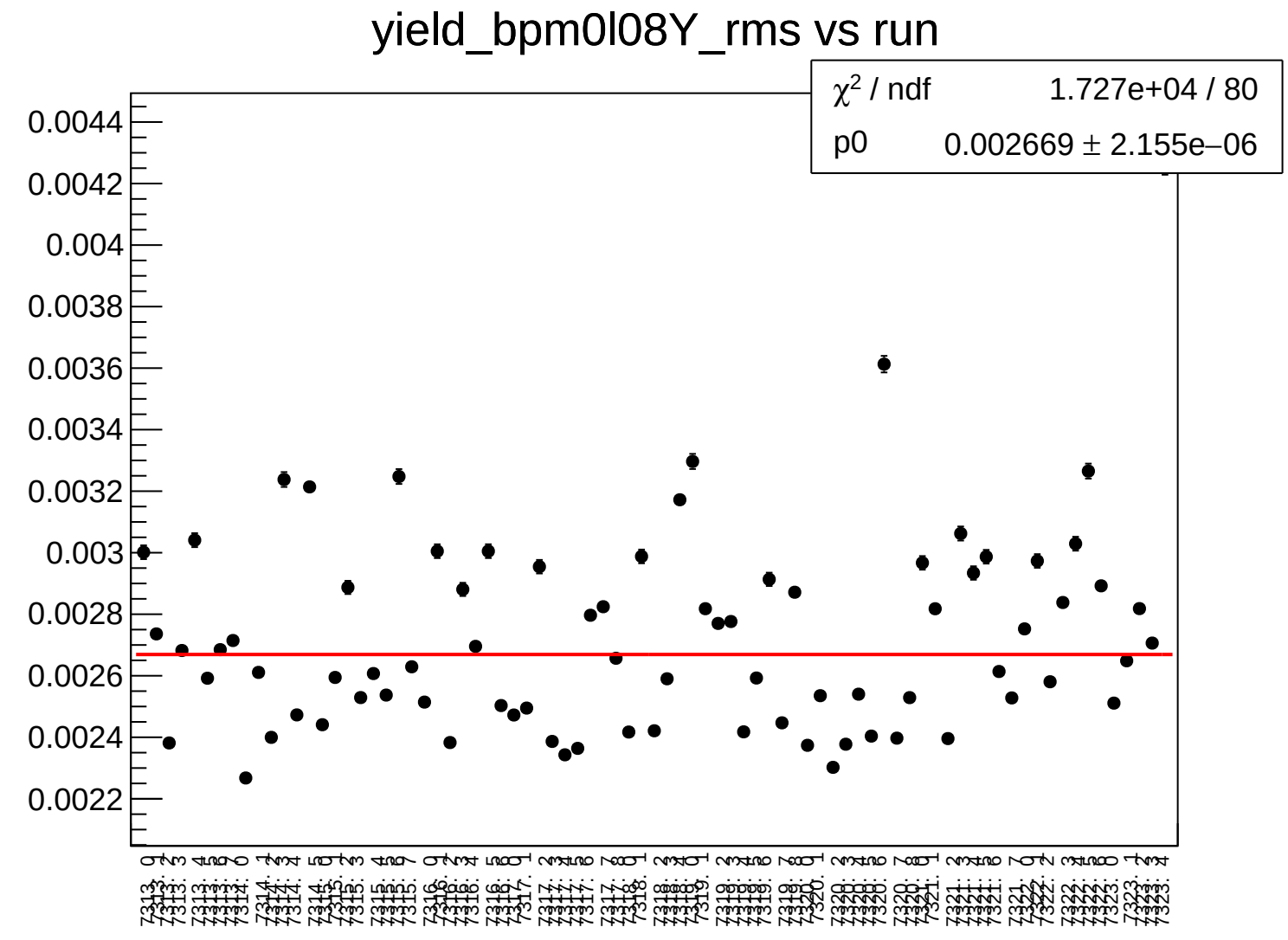

yield_bpm0l08X_mean vs run
χ² / ndf 7.257e+04 / 80
p0 0.09172 ± 1.174e−05
pull
Entries 81
Mean −45.94
Std Dev 139.1

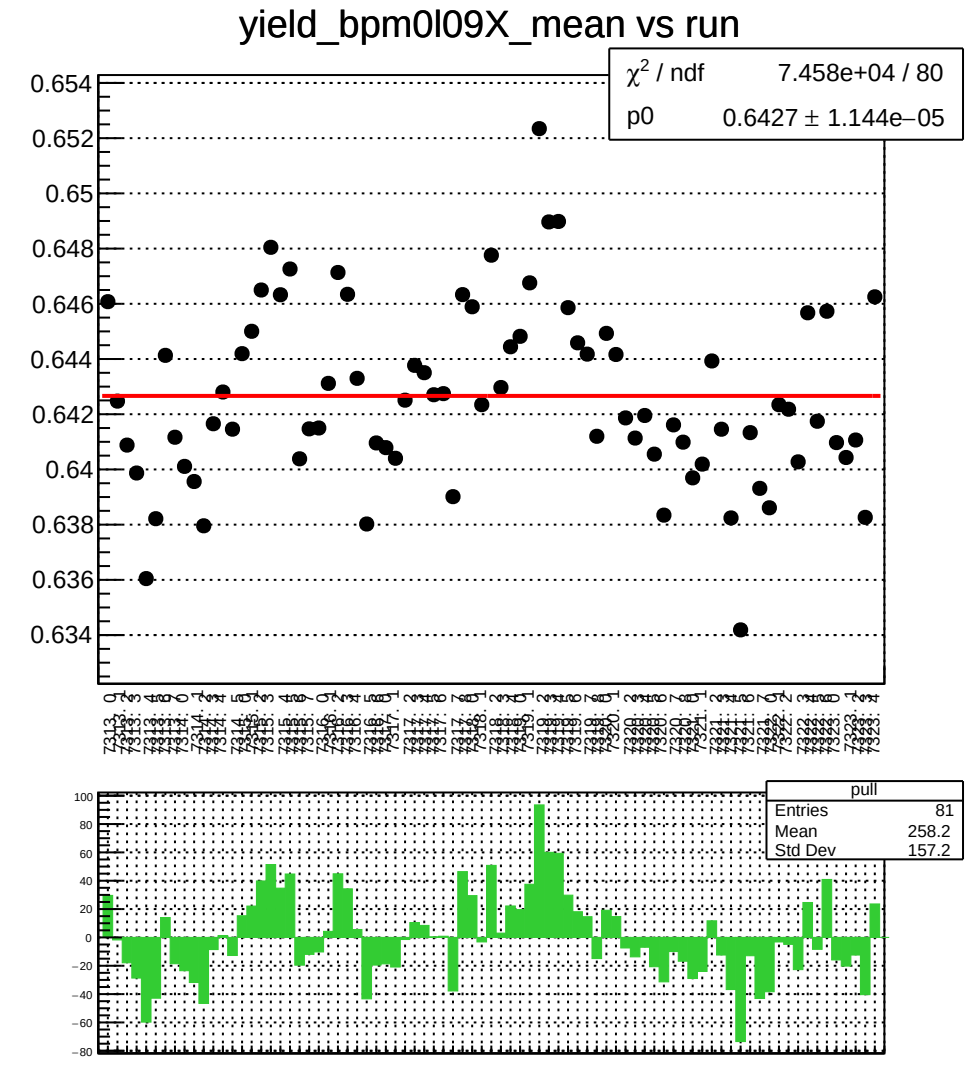

pull1D
Entries 81
Mean −1.207
Std Dev 4.214

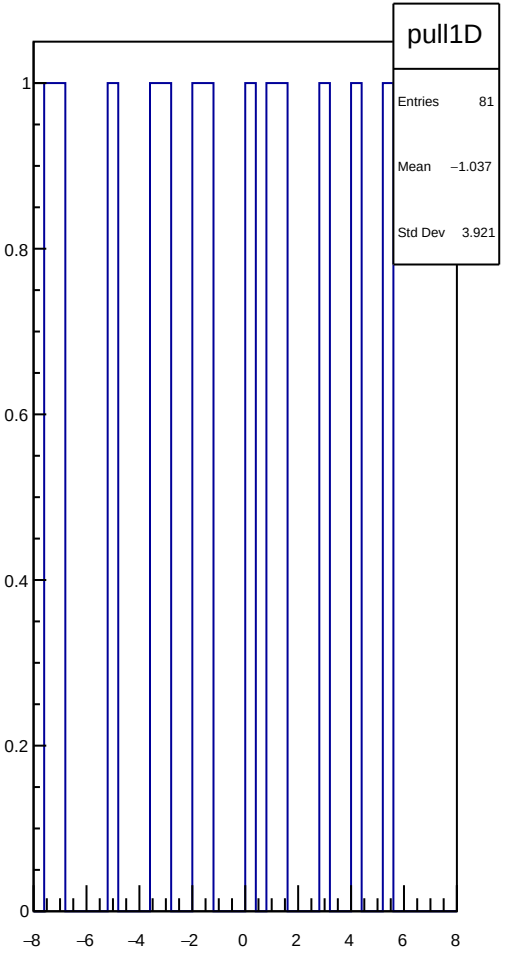

yield_bpm0l08X_rms vs run
χ² / ndf 9641 / 80
p0 0.01031 ± 8.302e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

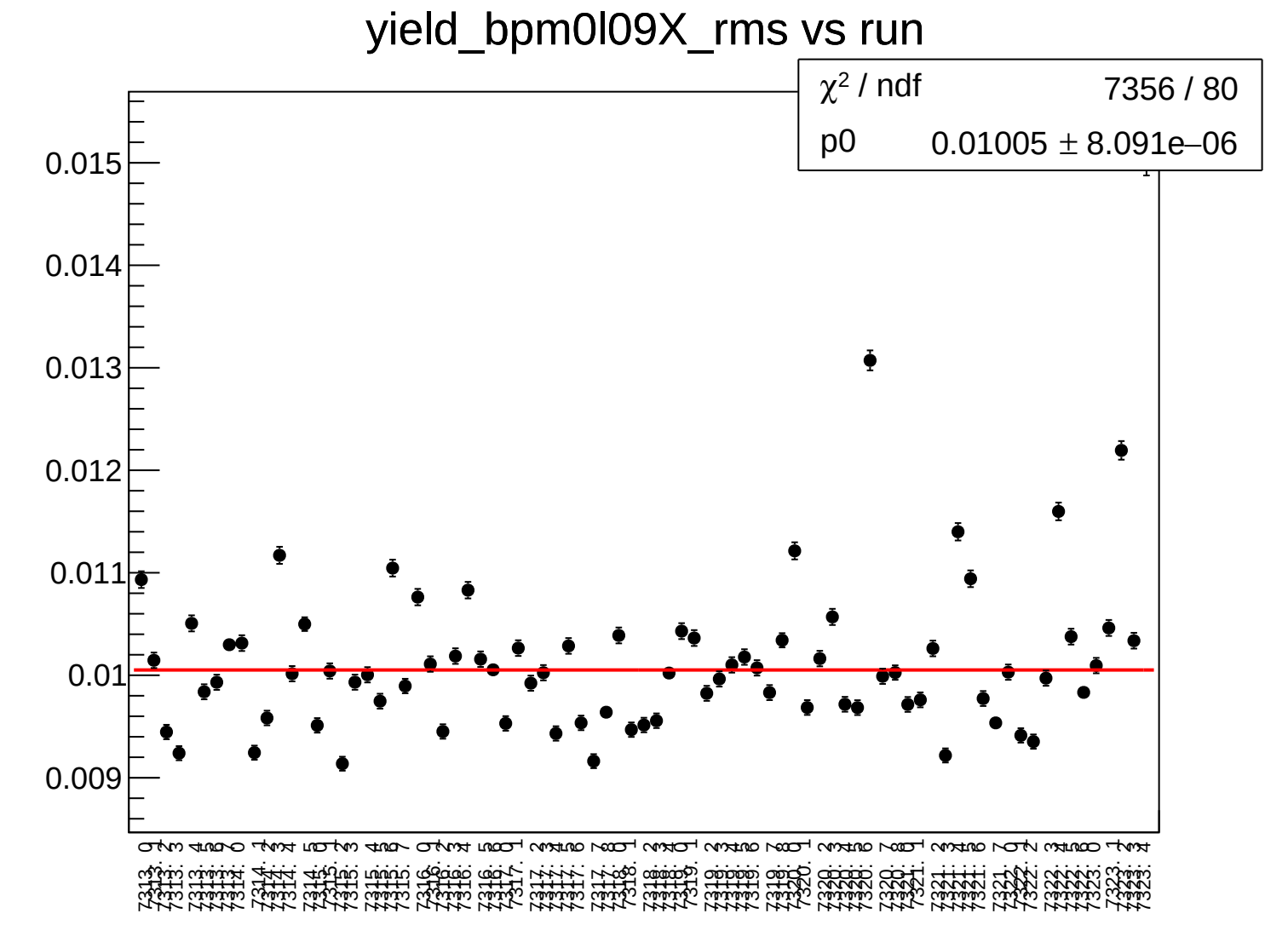

yield_bpm0l08Y_mean vs run
χ² / ndf 6.895e+05 / 80
p0 −0.2971 ± 3.048e−06
−0.292
−0.294
−0.296
−0.298
−0.3
−0.302
pull
Entries 81
Mean −1352
Std Dev 1393
150
100
50
0
−50
−100
−150
−200

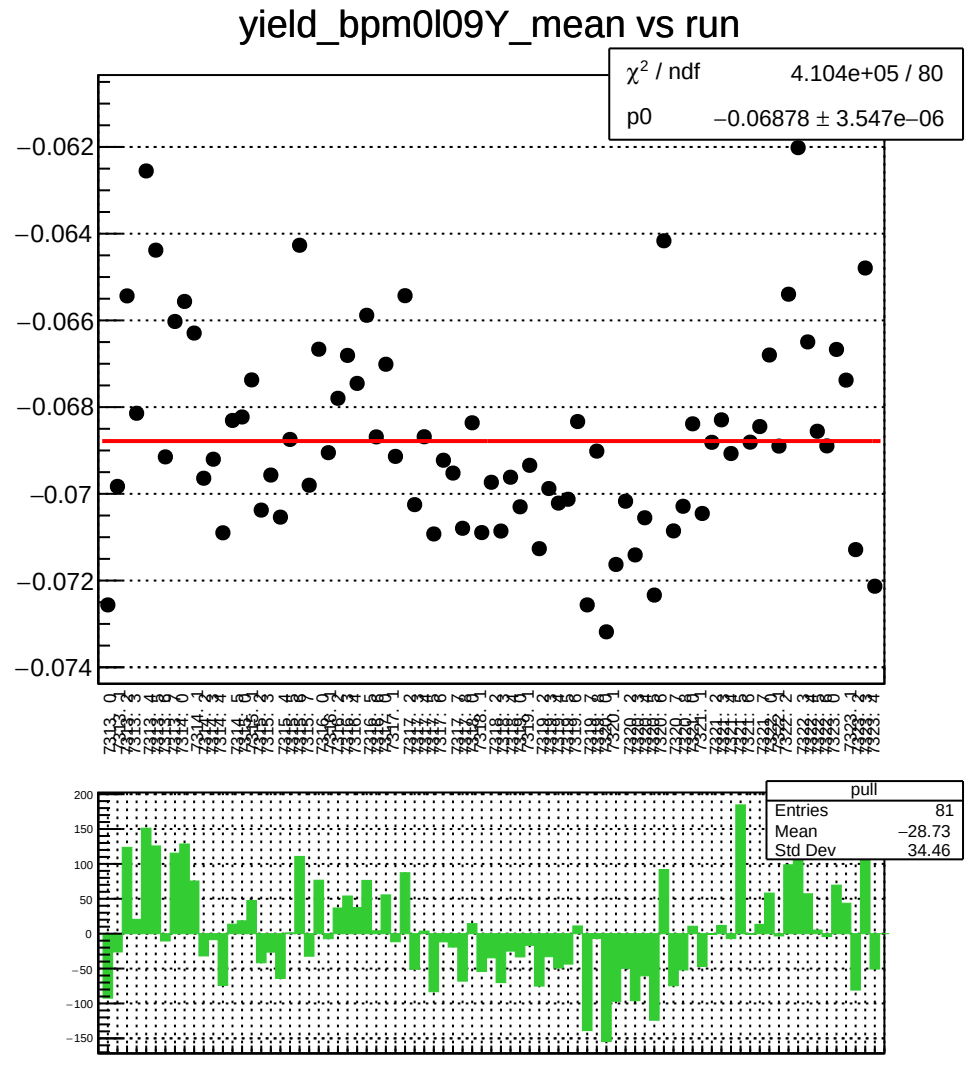

pull1D
Entries 81
Mean −1.257
Std Dev 5.647
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

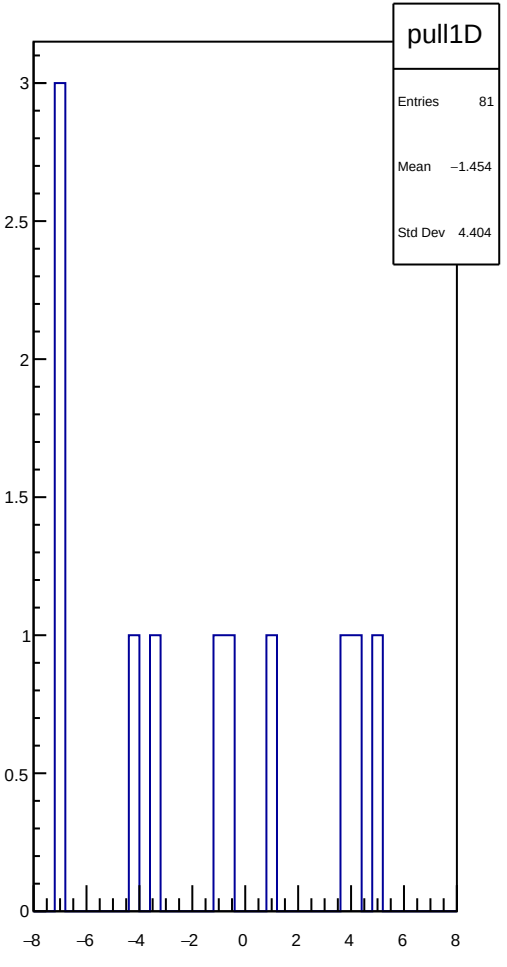

yield_bpm0l08Y_rms vs run
χ² / ndf 1.727e+04 / 80
p0 0.002669 ± 2.155e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

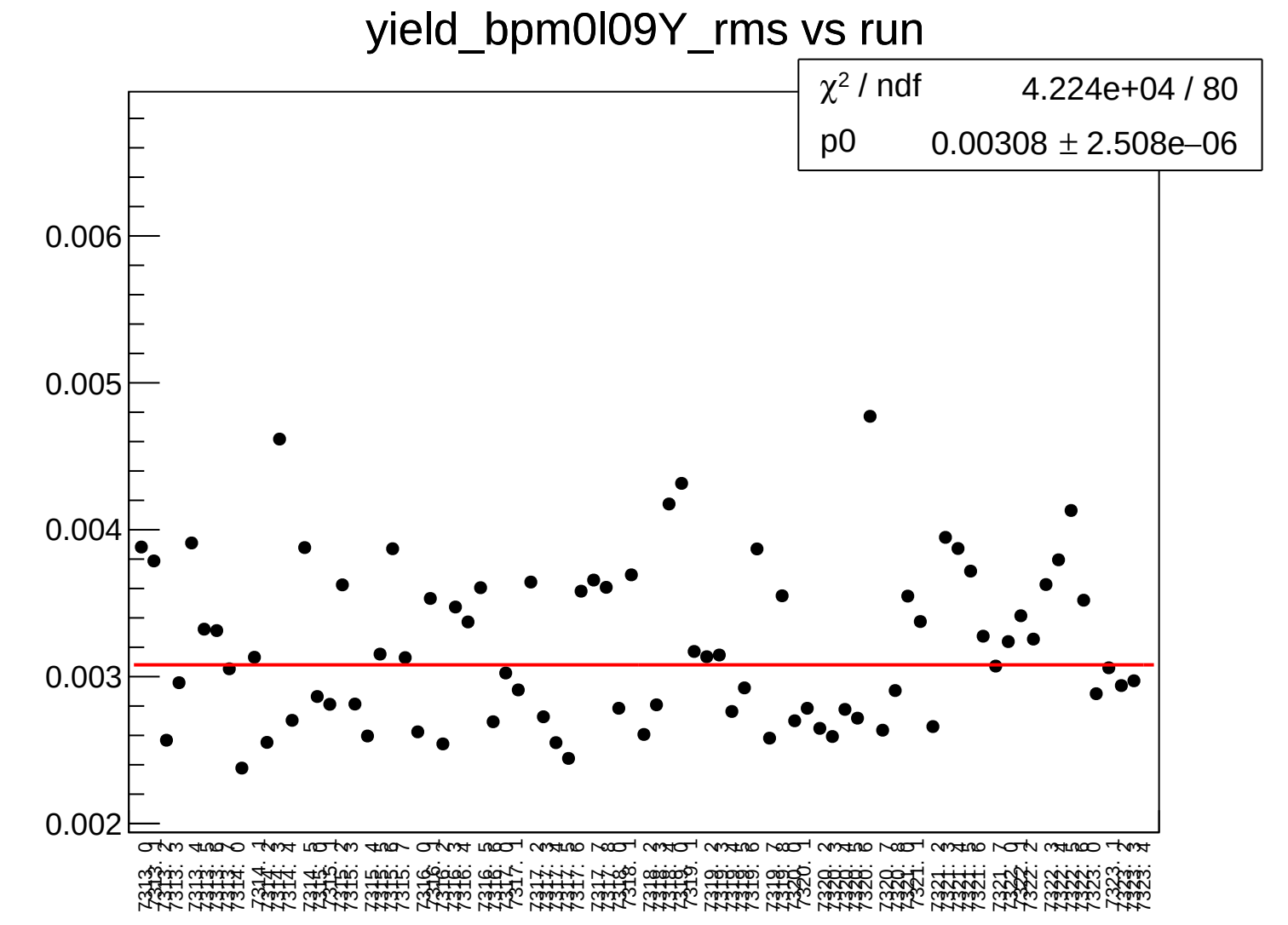

yield_bpm0l09X_mean vs run
χ² / ndf 7.458e+04 / 80
p0 0.6427 ± 1.144e−05
pull
Entries 81
Mean 258.2
Std Dev 157.2

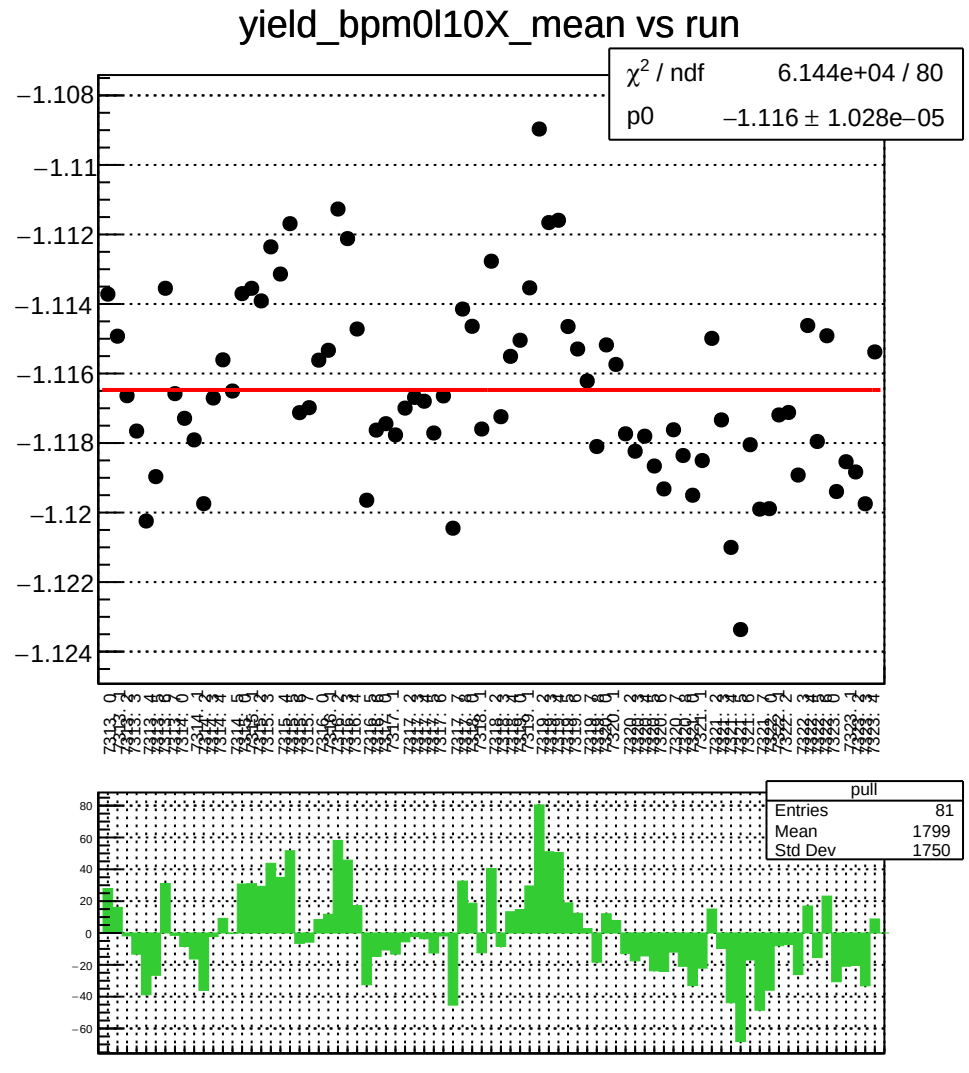

pull1D
Entries 81
Mean −1.037
Std Dev 3.921

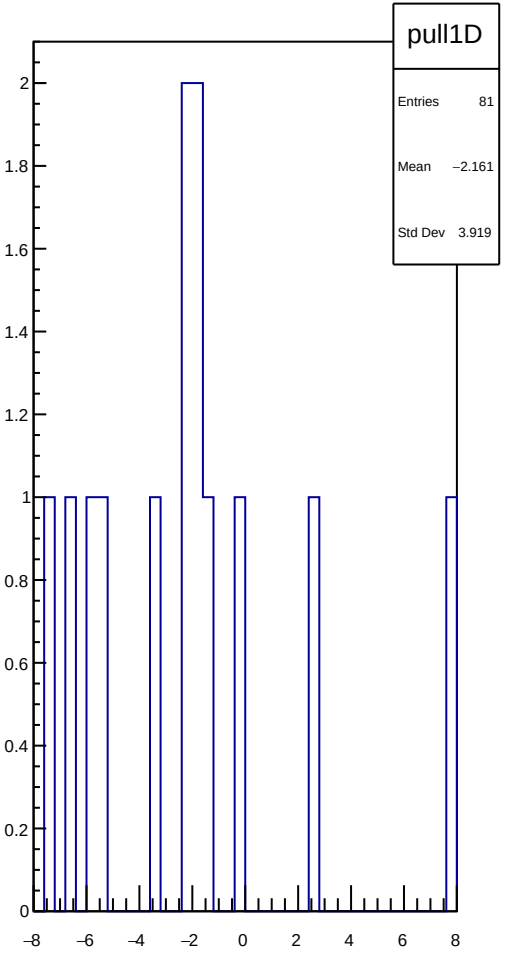

yield_bpm0l09X_rms vs run
χ² / ndf 7356 / 80
p0 0.01005 ± 8.091e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009


yield_bpm0l09Y_mean vs run
χ² / ndf 4.104e+05 / 80
p0 −0.06878 ± 3.547e−06
−0.062
−0.064
−0.066
−0.068
−0.07
−0.072
−0.074
pull
Entries 81
Mean −28.73
Std Dev 34.46
200
150
100
50
0
−50
−100
−150

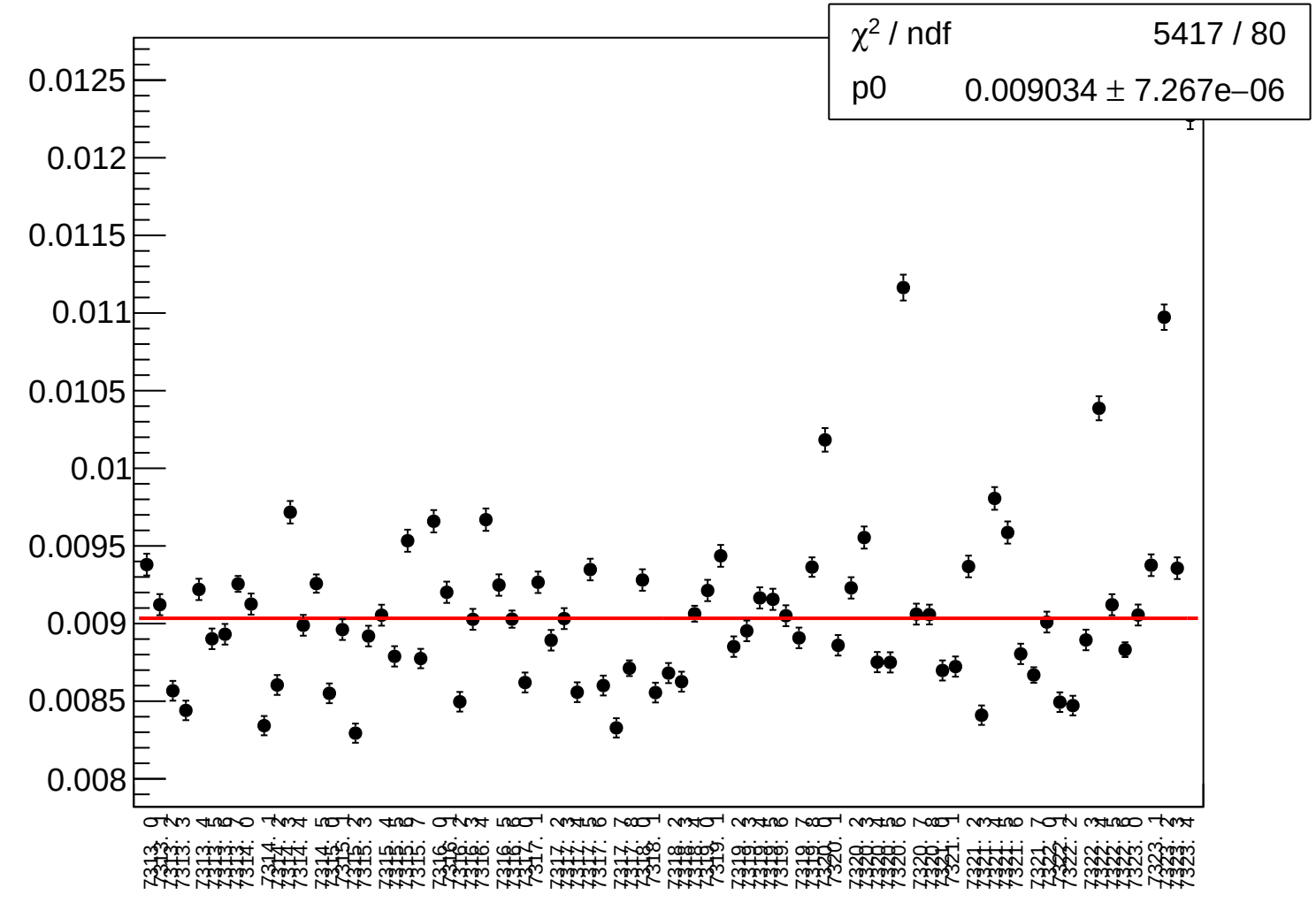

pull1D
Entries 81
Mean −1.454
Std Dev 4.404
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

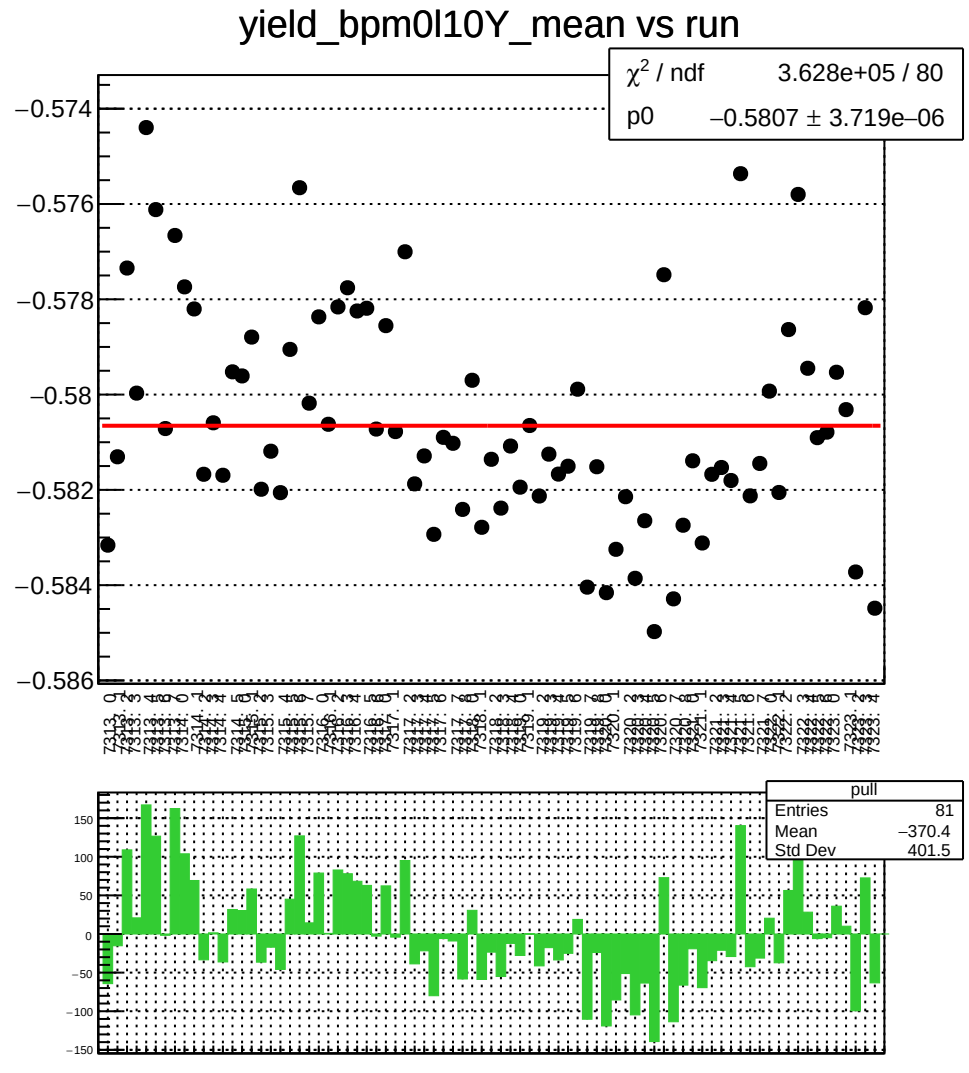

yield_bpm0l09Y_rms vs run
χ² / ndf 4.224e+04 / 80
p0 0.00308 ± 2.508e–06
0.006
0.005
0.004
0.003
0.002

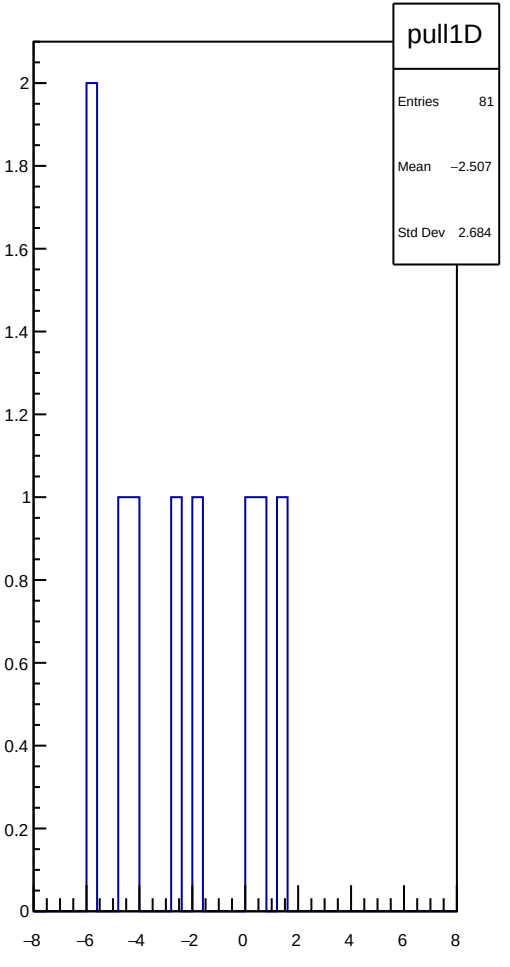

yield_bpm0l10X_mean vs run
χ² / ndf 6.144e+04 / 80
p0 −1.116 ± 1.028e−05
−1.108
−1.11
−1.112
−1.114
−1.116
−1.118
−1.12
−1.122
−1.124
pull
Entries 81
Mean 1799
Std Dev 1750
80
60
40
20
0
−20
−40
−60

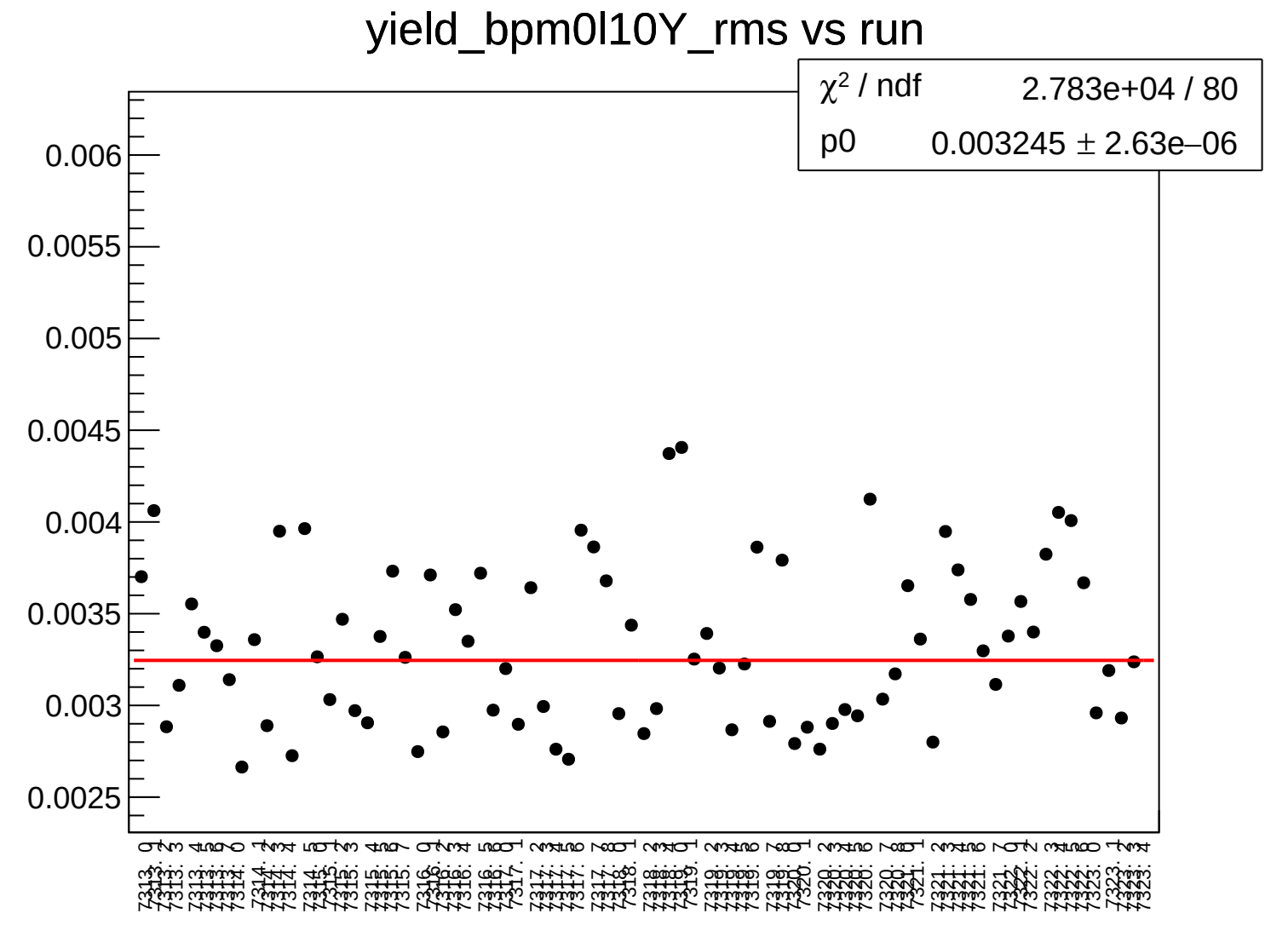

pull1D
Entries 81
Mean −2.161
Std Dev 3.919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

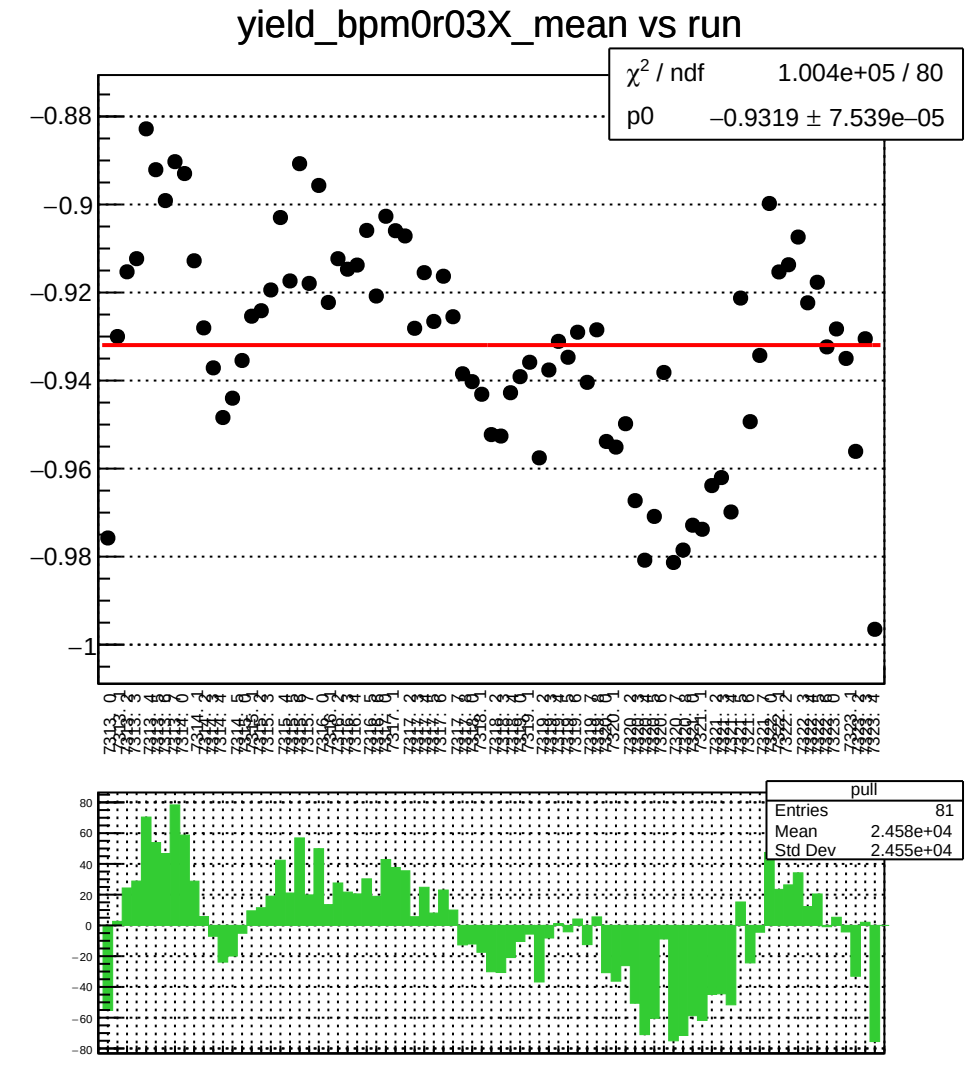
yield_bpm0l10X_rms vs run

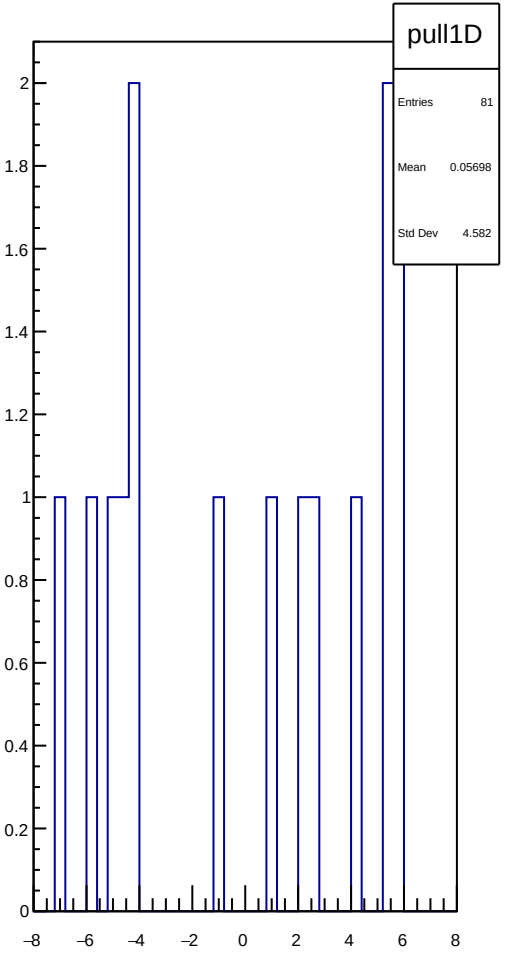


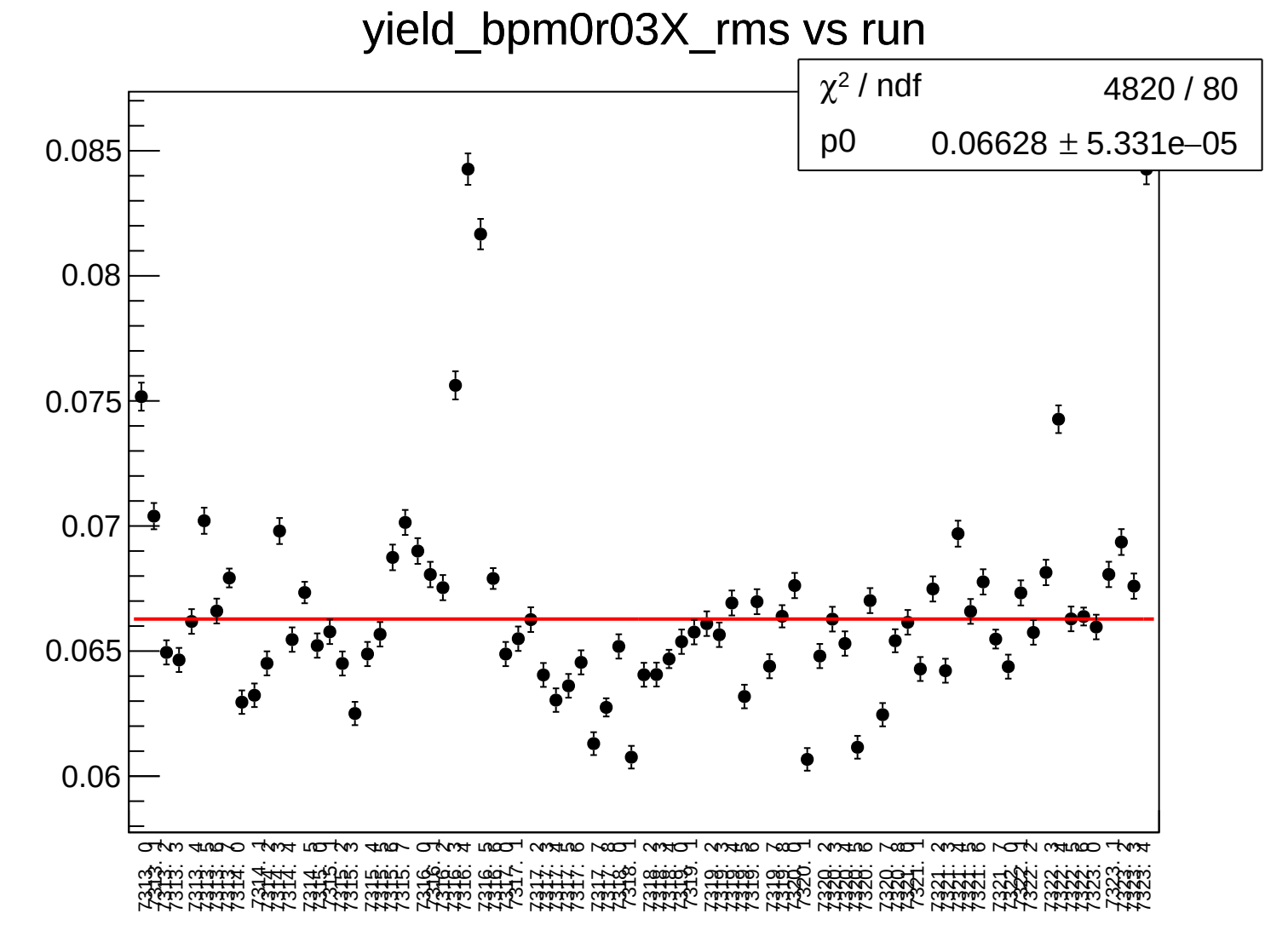

yield_bpm0l10Y_mean vs run
χ² / ndf 3.628e+05 / 80
p0 −0.5807 ± 3.719e−06
−0.574
−0.576
−0.578
−0.58
−0.582
−0.584
−0.586
pull
Entries 81
Mean −370.4
Std Dev 401.5
150
100
50
0
−50
−100
−150

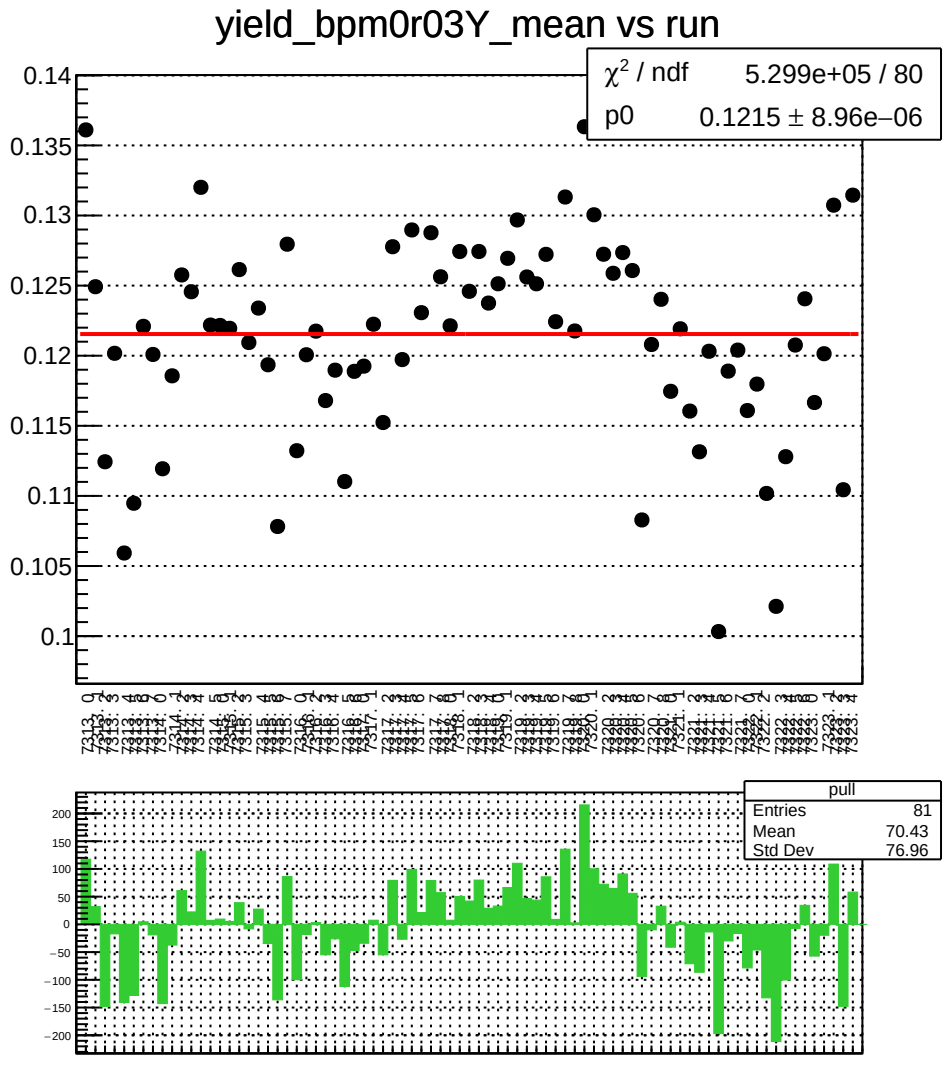

pull1D
Entries 81
Mean −2.507
Std Dev 2.684
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

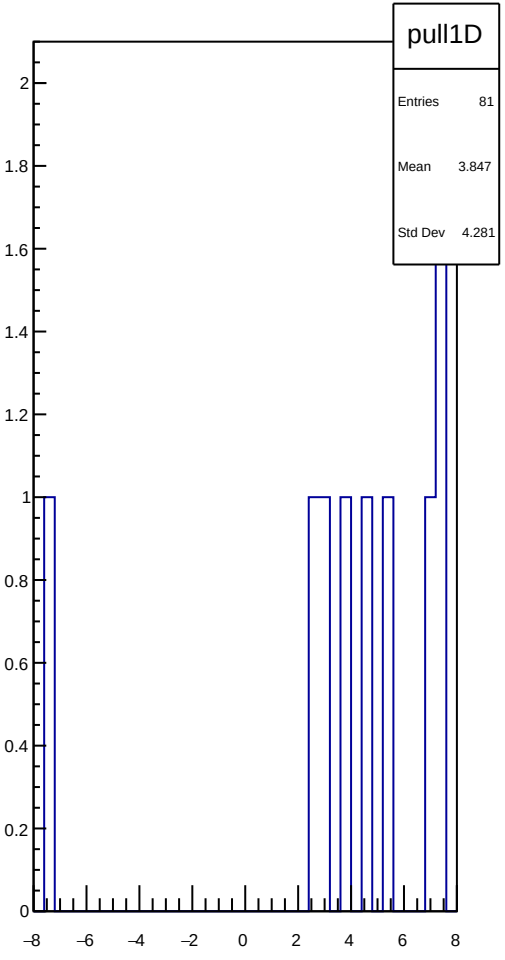

yield_bpm0l10Y_rms vs run
χ² / ndf 2.783e+04 / 80
p0 0.003245 ± 2.63e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

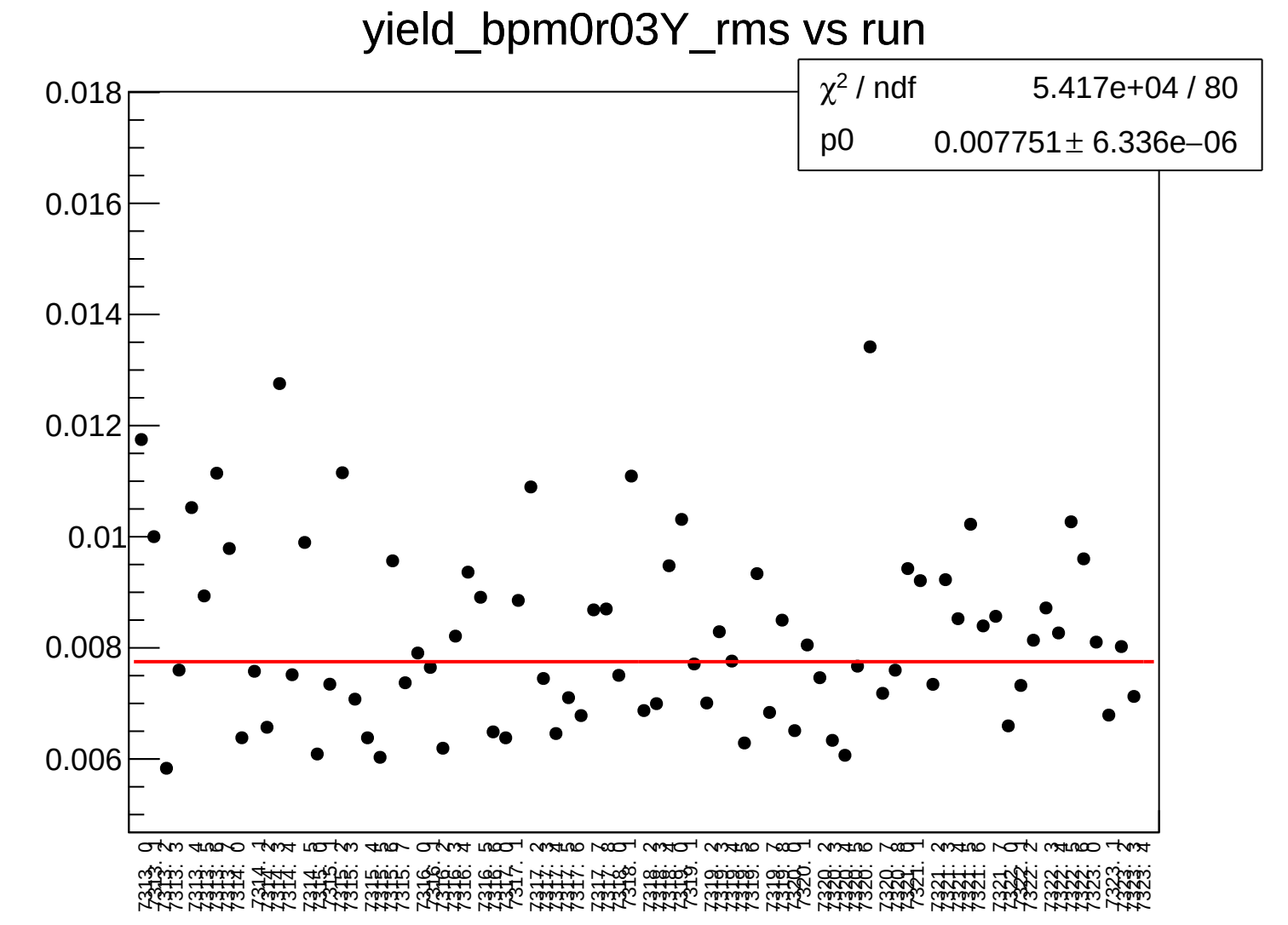

yield_bpm0r03X_mean vs run
χ² / ndf 1.004e+05 / 80
p0 −0.9319 ± 7.539e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
pull
Entries 81
Mean 2.458e+04
Std Dev 2.455e+04
80
60
40
20
0
−20
−40
−60
−80

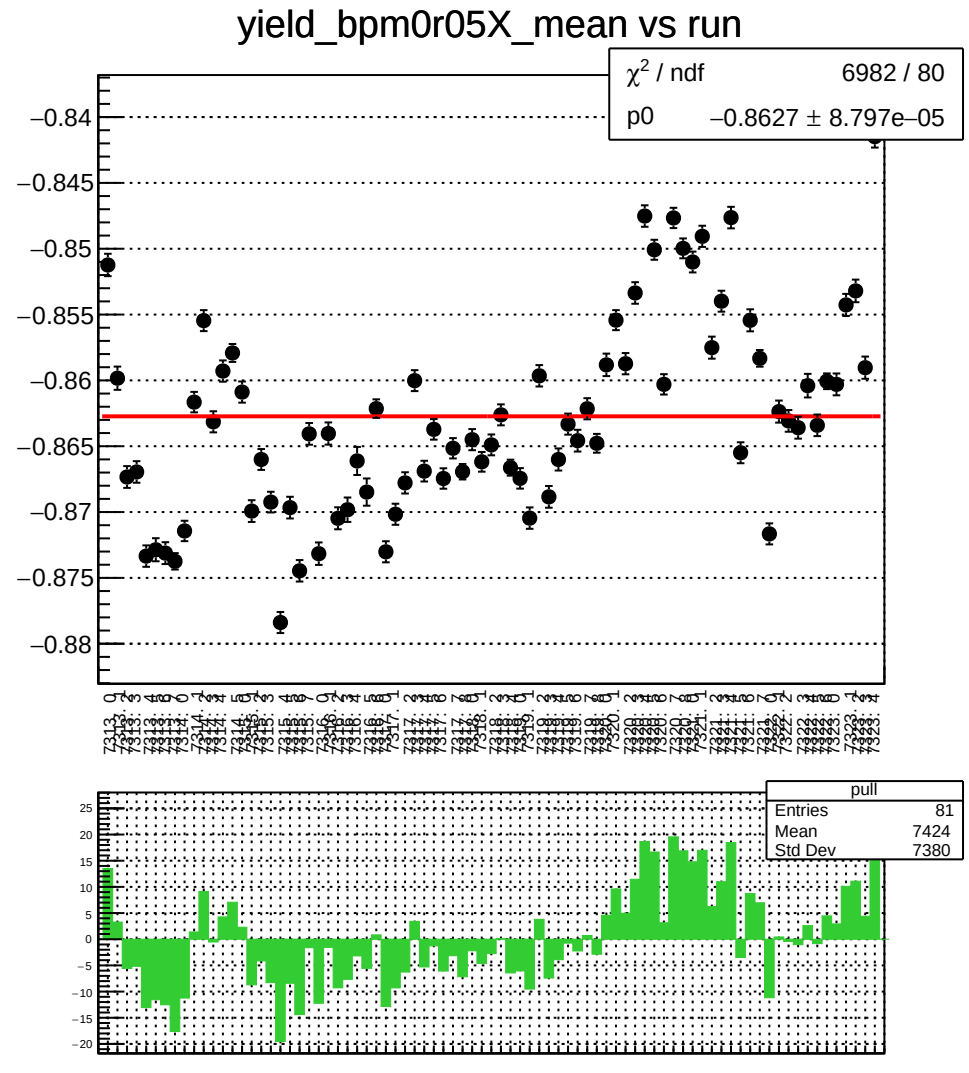

pull1D
Entries 81
Mean 0.05698
Std Dev 4.582
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

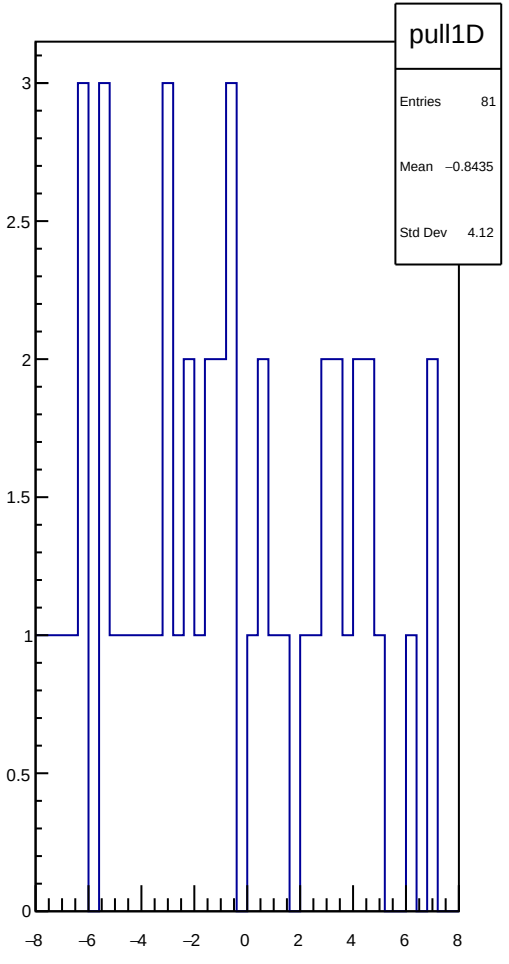

yield_bpm0r03X_rms vs run
χ² / ndf 4820 / 80
p0 0.06628 ± 5.331e–05
0.085
0.08
0.075
0.07
0.065
0.06

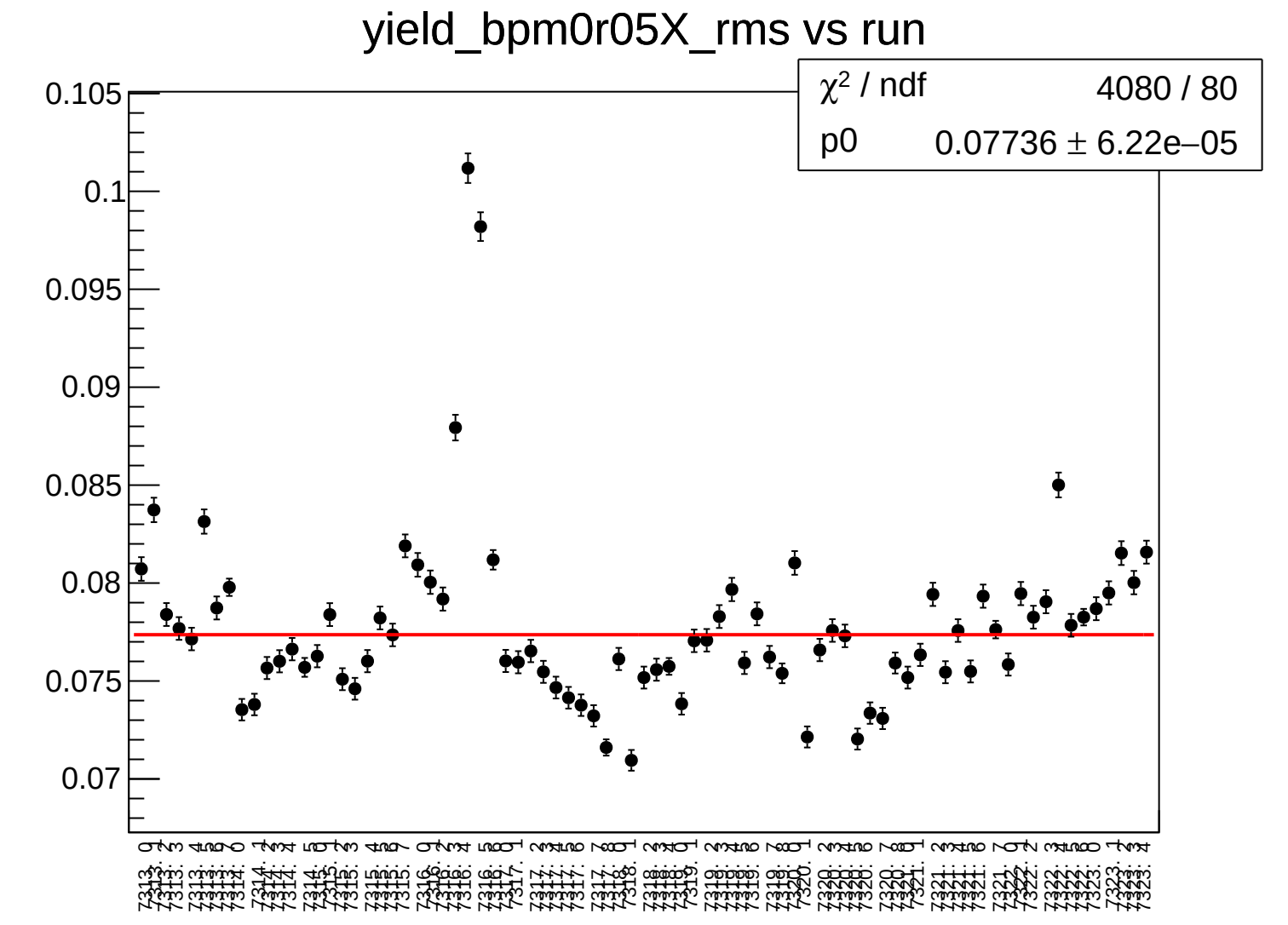

yield_bpm0r03Y_mean vs run
χ² / ndf 5.299e+05 / 80
p0 0.1215 ± 8.96e−06
pull
Entries 81
Mean 70.43
Std Dev 76.96

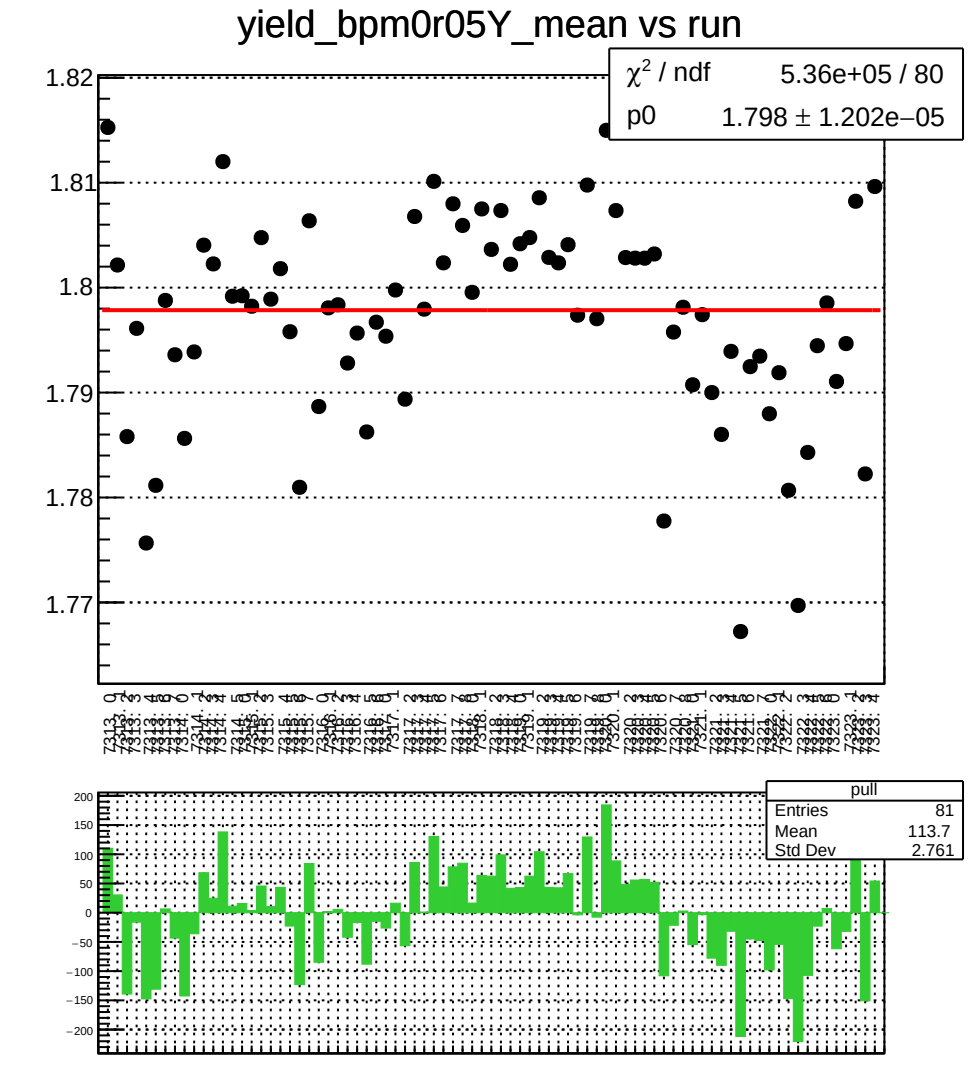

pull1D
Entries 81
Mean 3.847
Std Dev 4.281

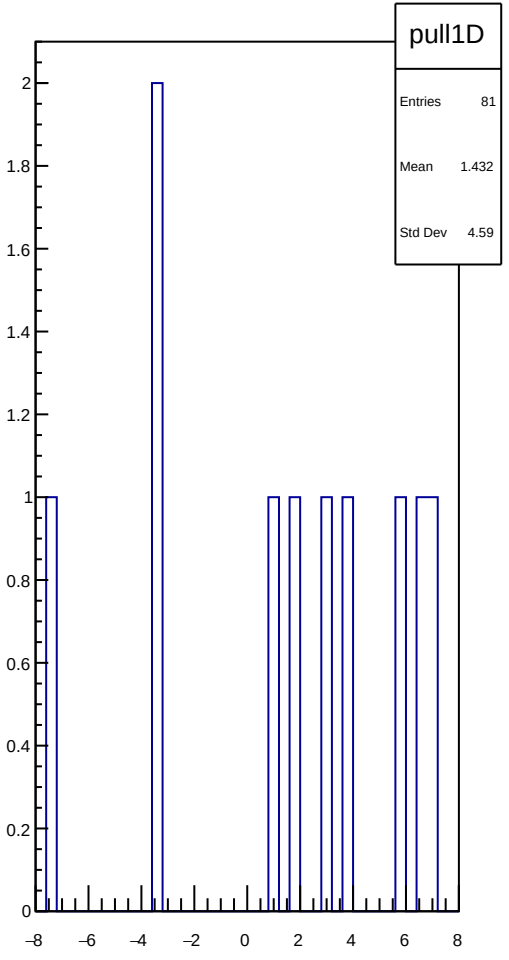

yield_bpm0r03Y_rms vs run
χ² / ndf 5.417e+04 / 80
p0 0.007751 ± 6.336e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

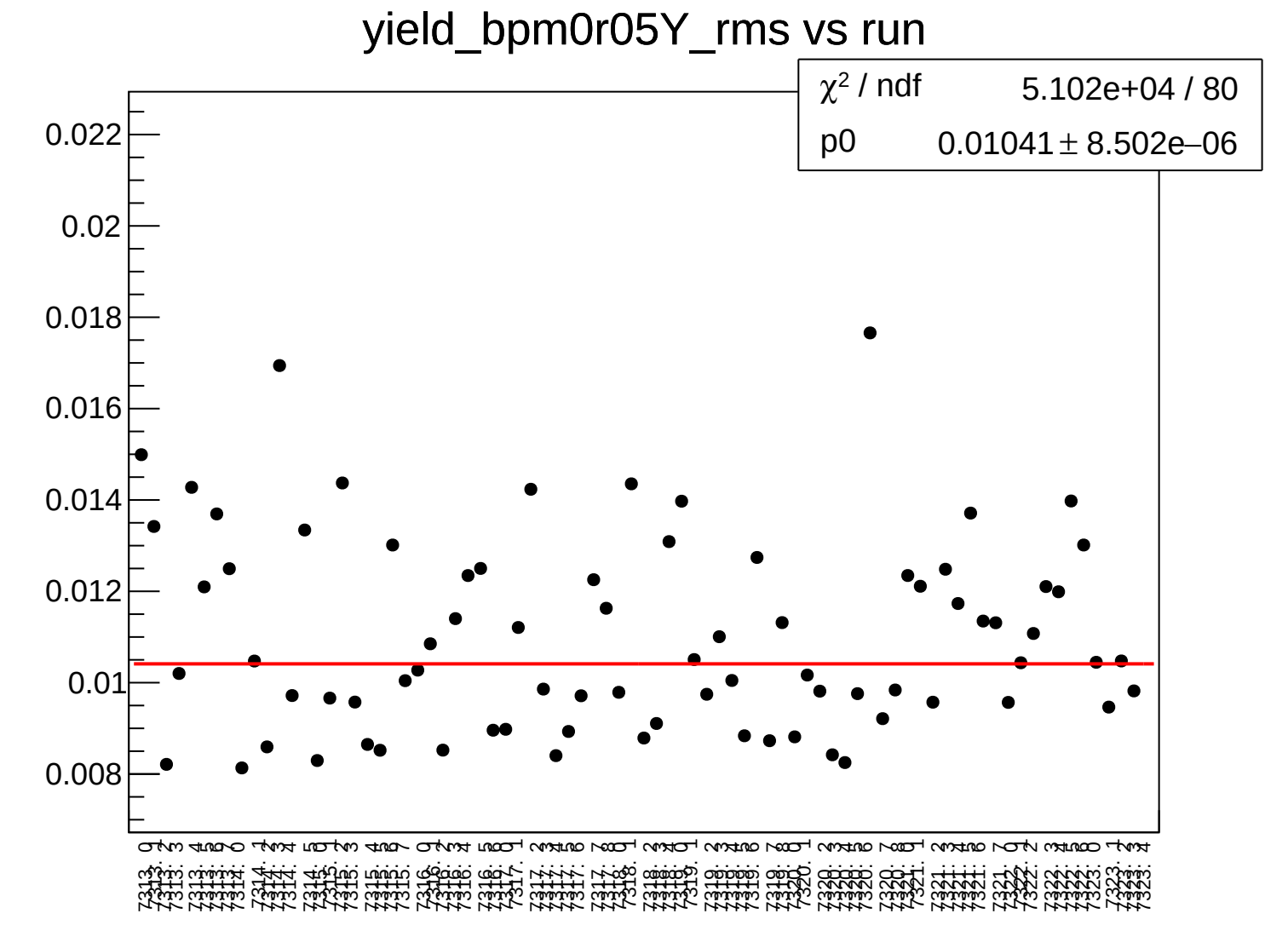

yield_bpm0r05X_mean vs run
χ² / ndf 6982 / 80
p0 −0.8627 ± 8.797e−05
pull
Entries 81
Mean 7424
Std Dev 7380

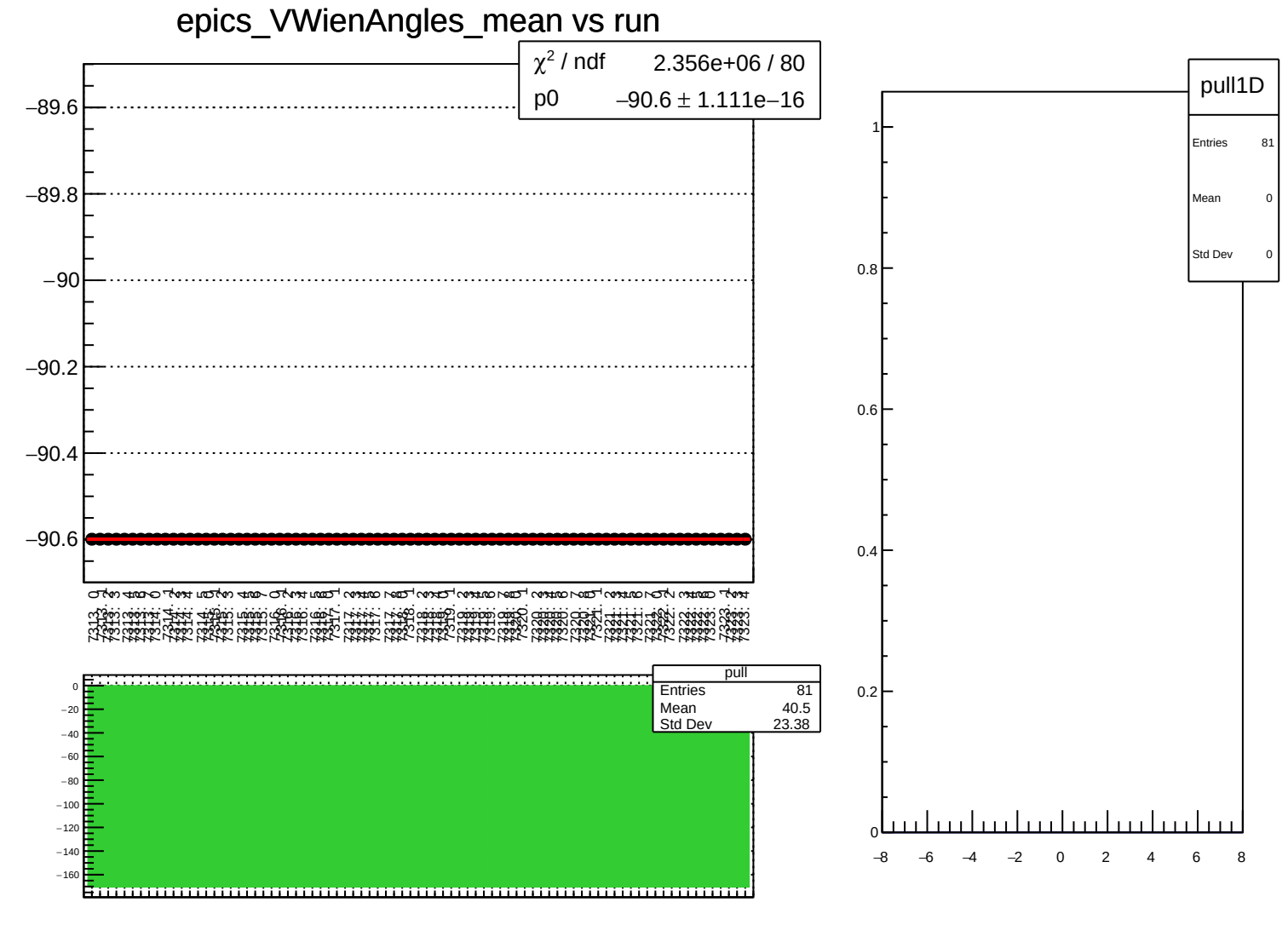

pull1D
Entries 81
Mean −0.8435
Std Dev 4.12

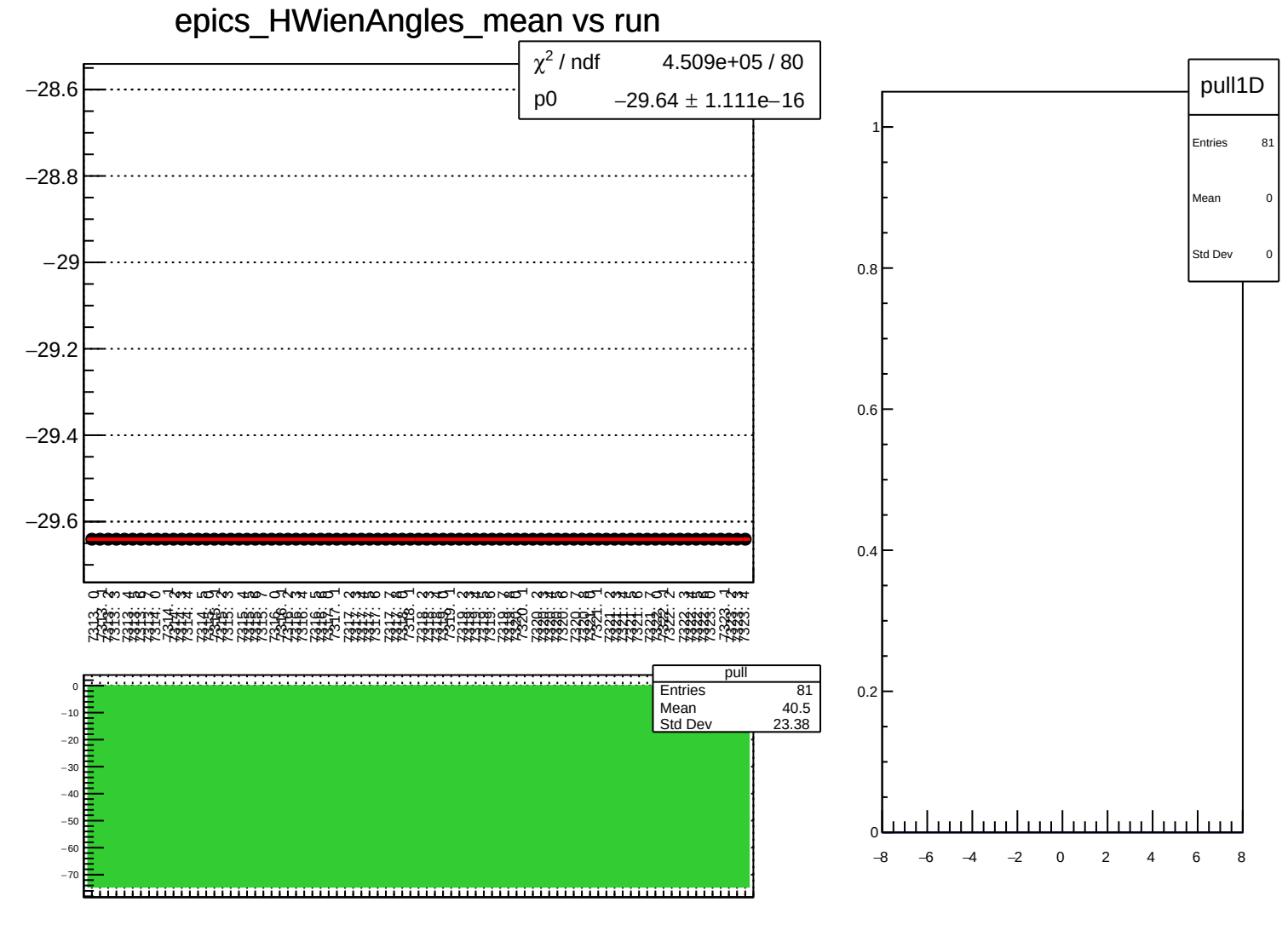

yield_bpm0r05X_rms vs run
χ² / ndf 4080 / 80
p0 0.07736 ± 6.22e–05
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

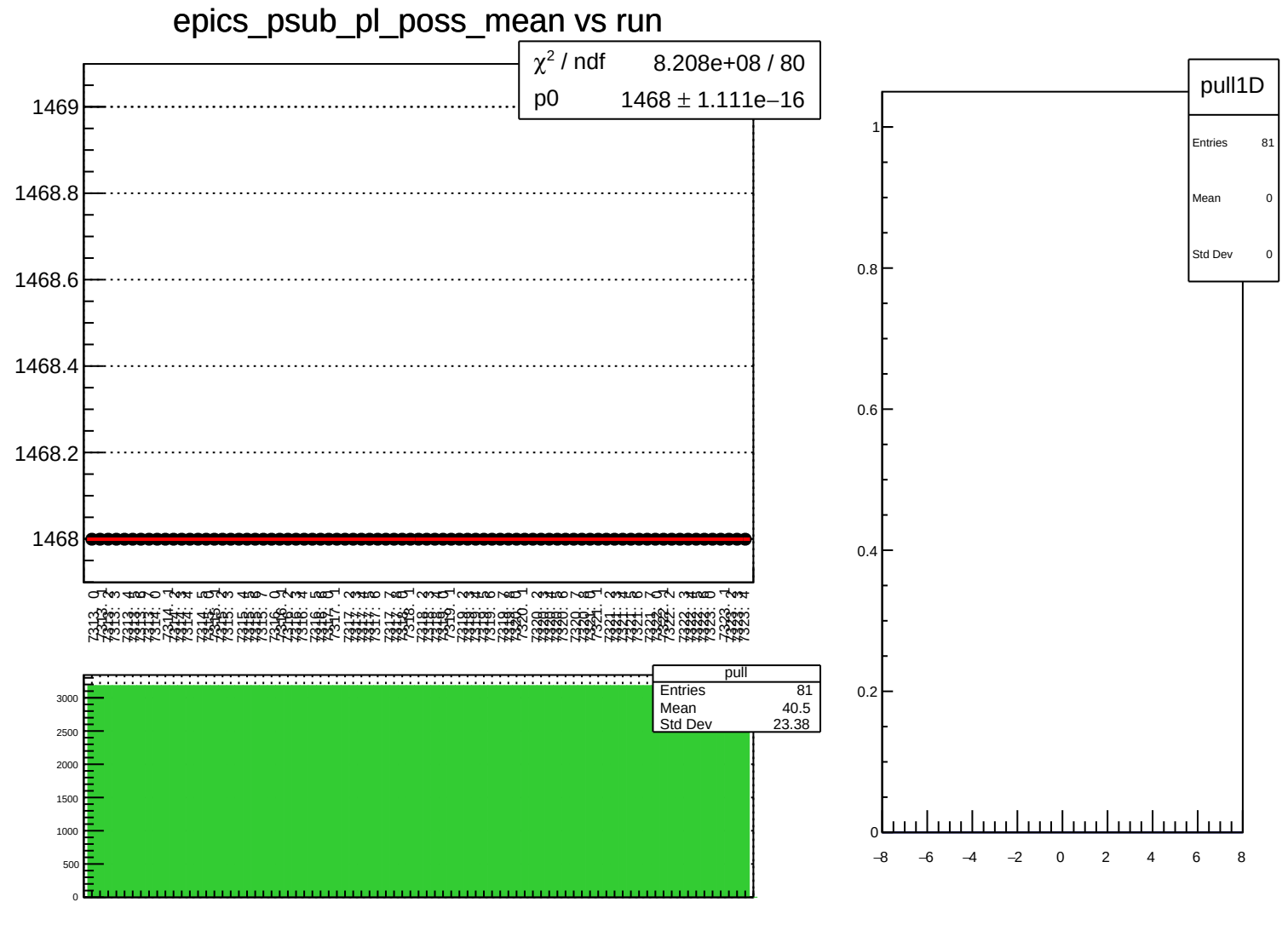

yield_bpm0r05Y_mean vs run
χ² / ndf 5.36e+05 / 80
p0 1.798 ± 1.202e−05
1.82
1.81
1.8
1.79
1.78
1.77
pull
Entries 81
Mean 113.7
Std Dev 2.761
200
150
100
50
0
−50
−100
−150
−200

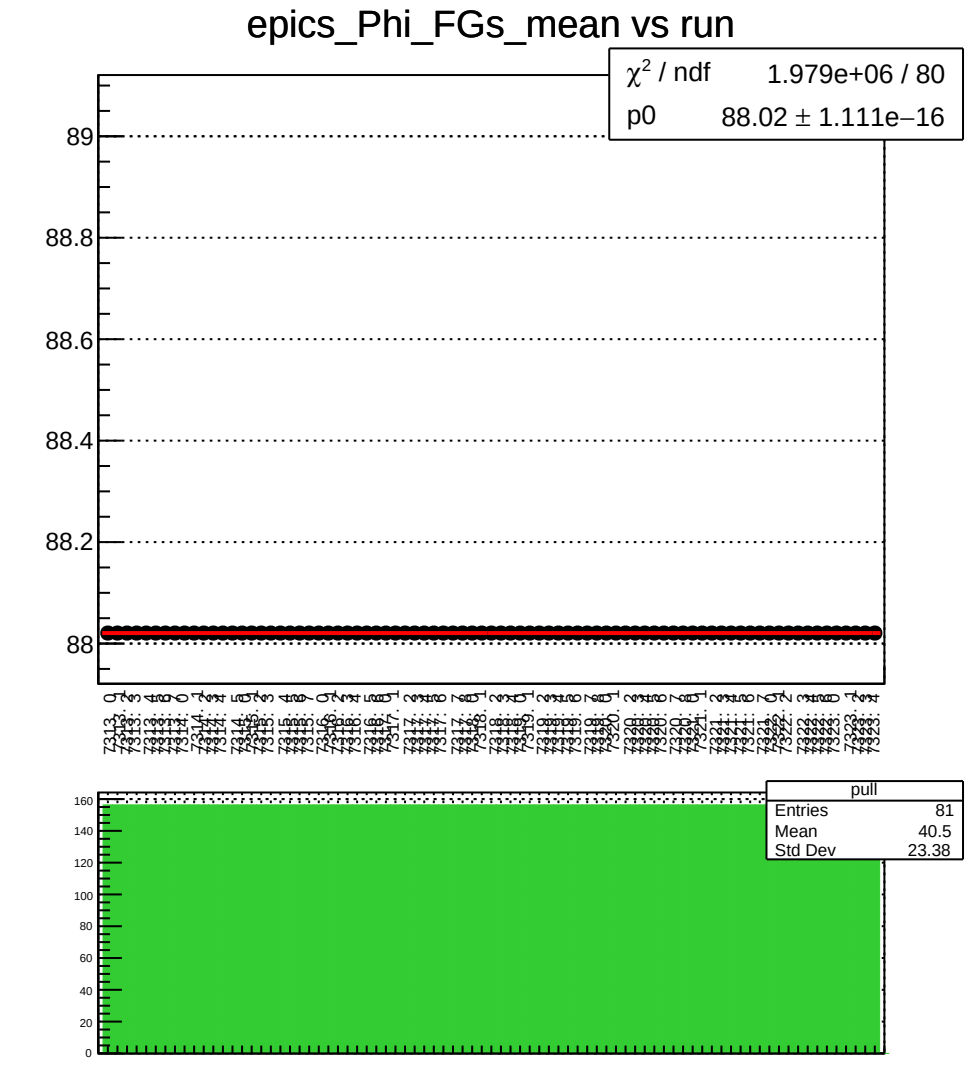

pull1D
Entries 81
Mean 1.432
Std Dev 4.59
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

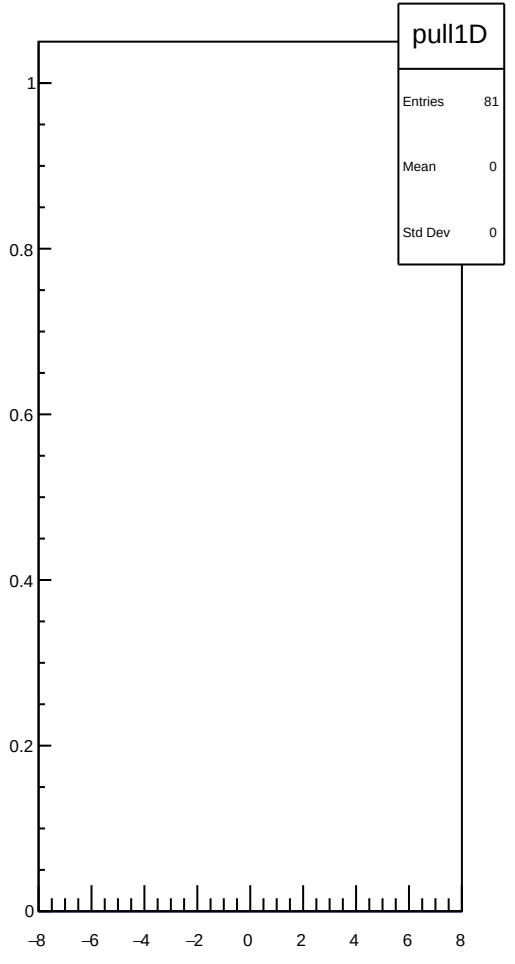

yield_bpm0r05Y_rms vs run
χ² / ndf 5.102e+04 / 80
p0 0.01041 ± 8.502e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

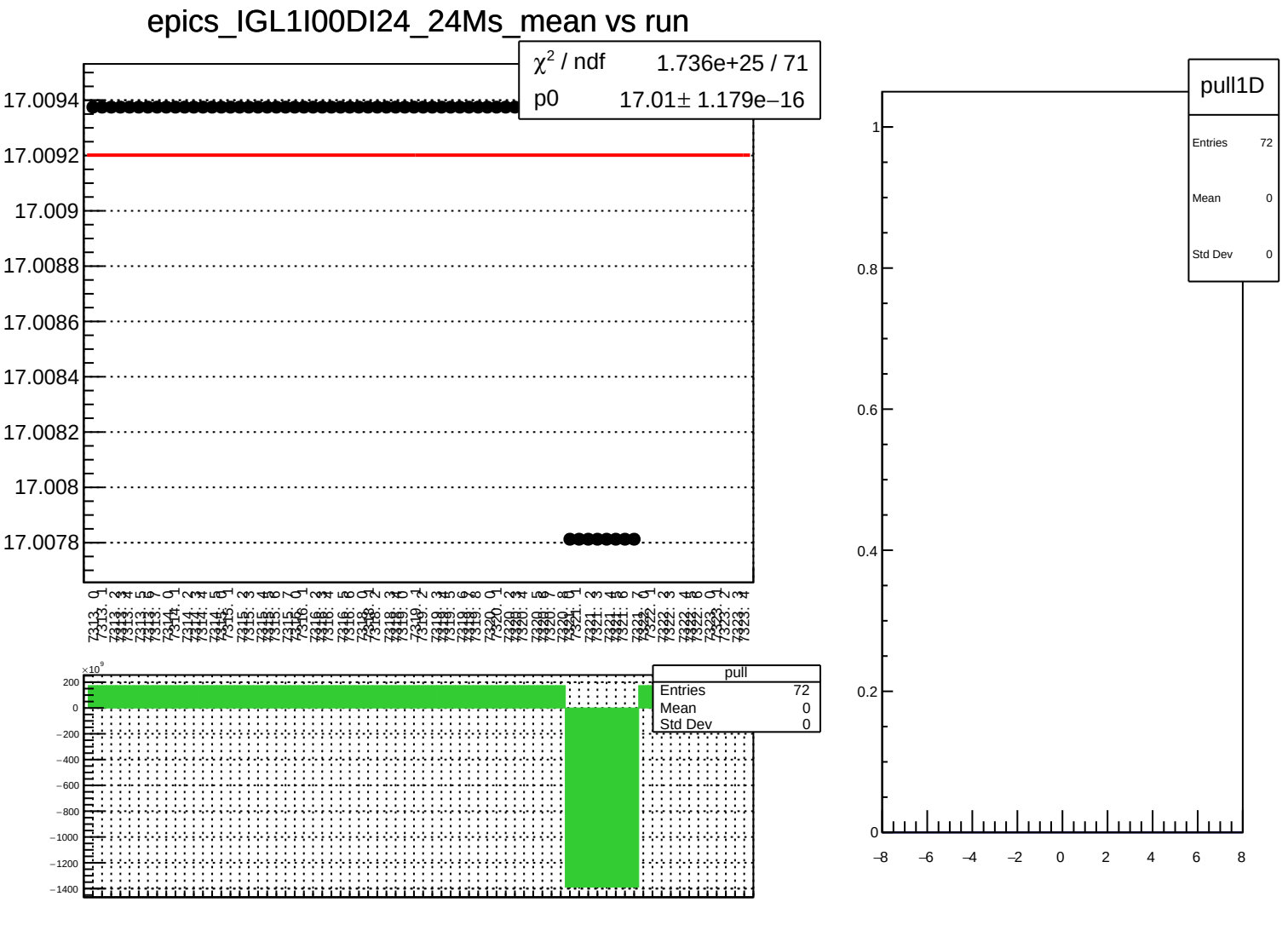

epics_VWienAngles_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

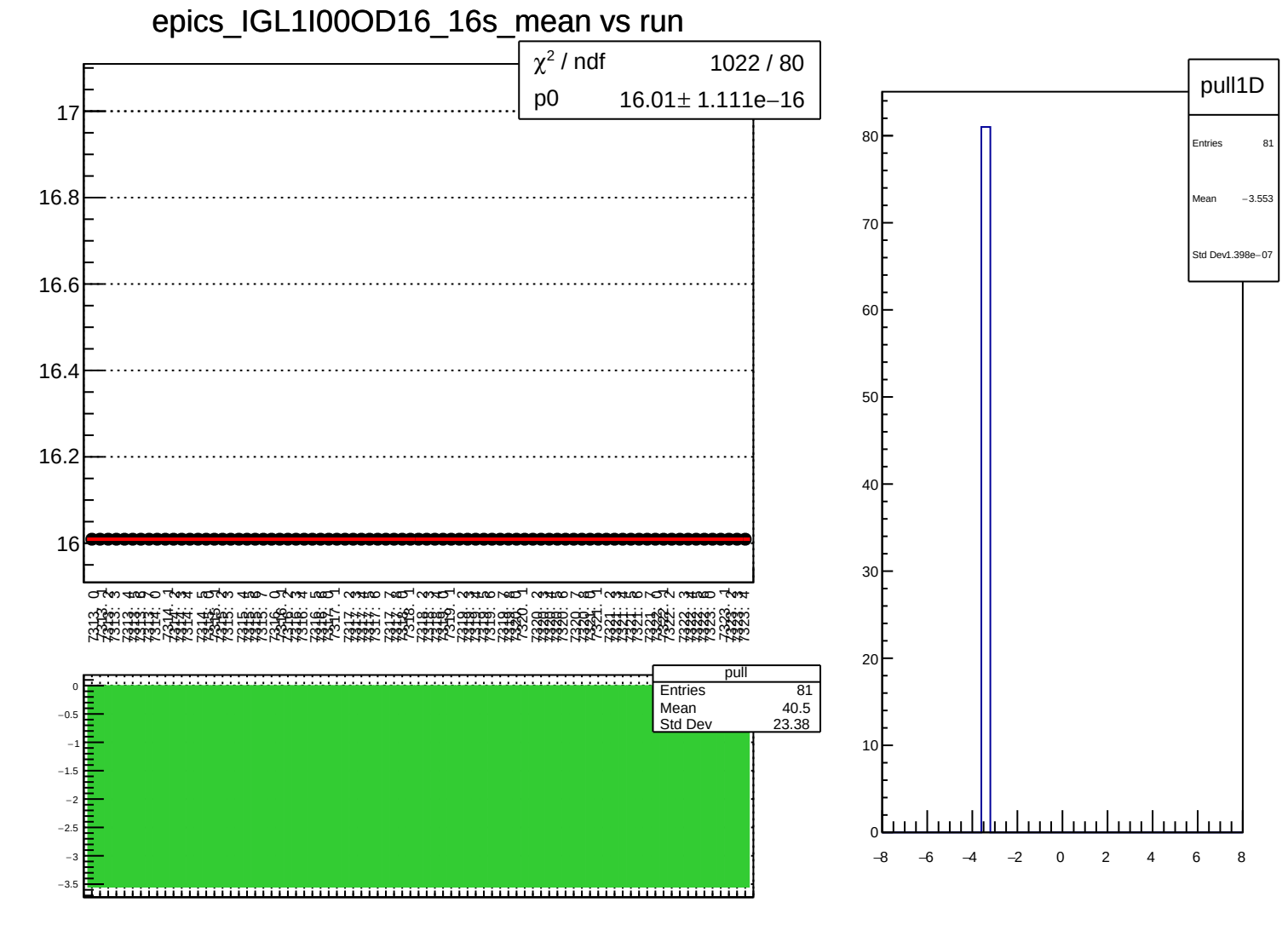

epics_HWienAngles_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

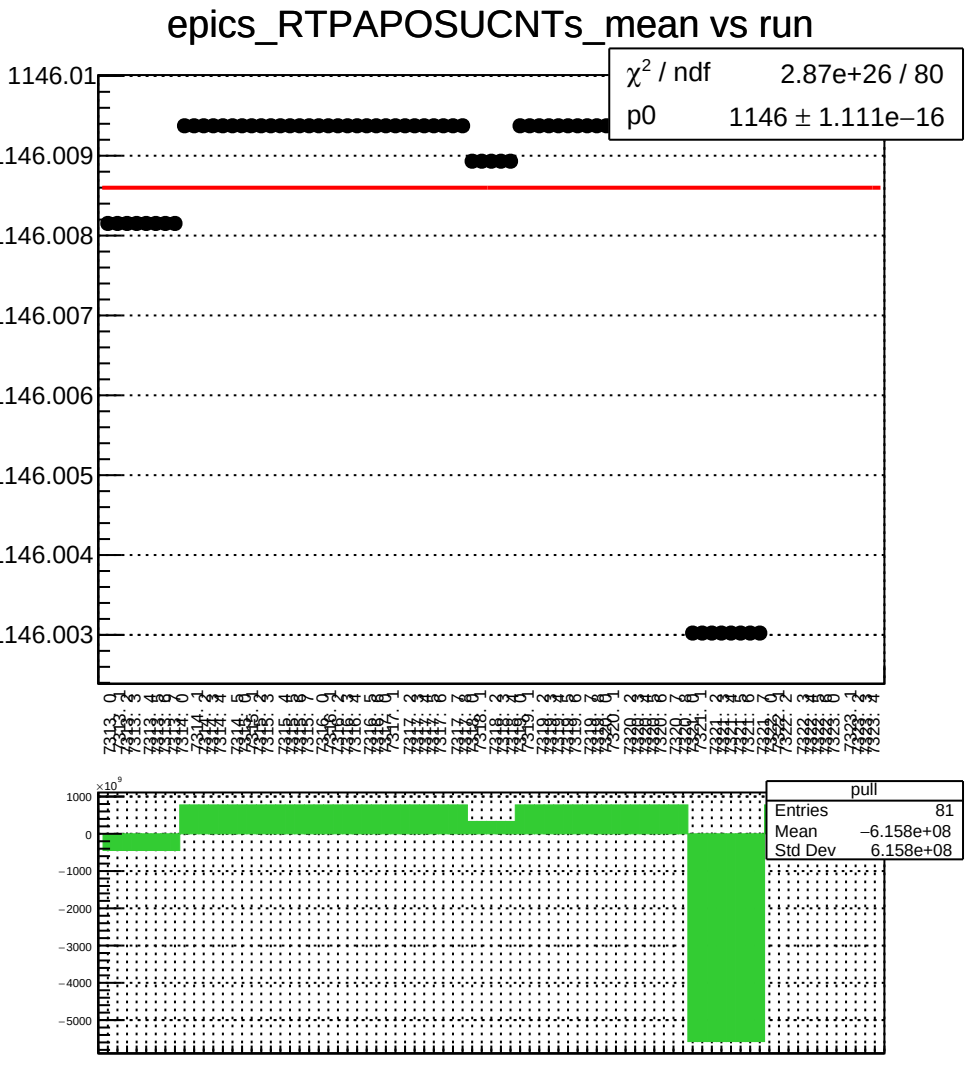

epics_psub_pl_poss_mean vs run
χ² / ndf 8.208e+08 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
3000
2500
2000
1500
1000
500
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

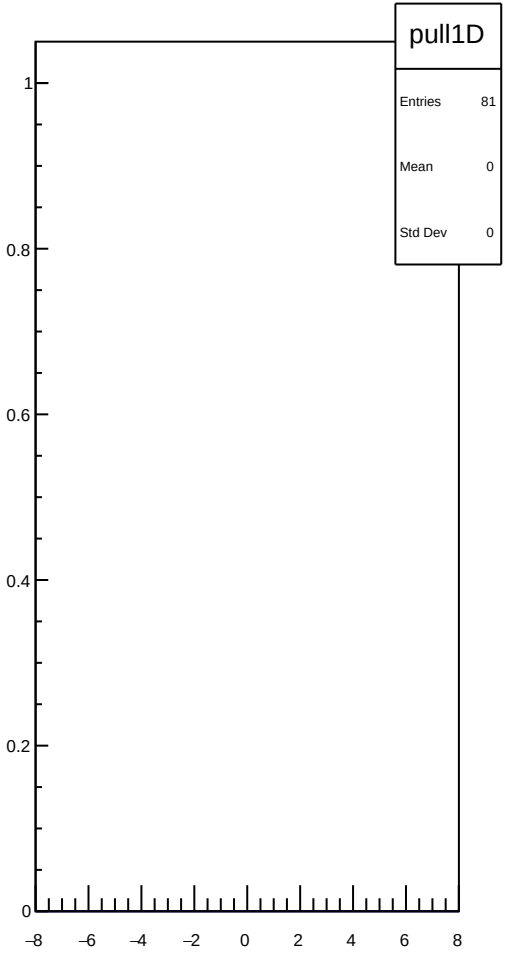

epics_Phi_FGs_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0

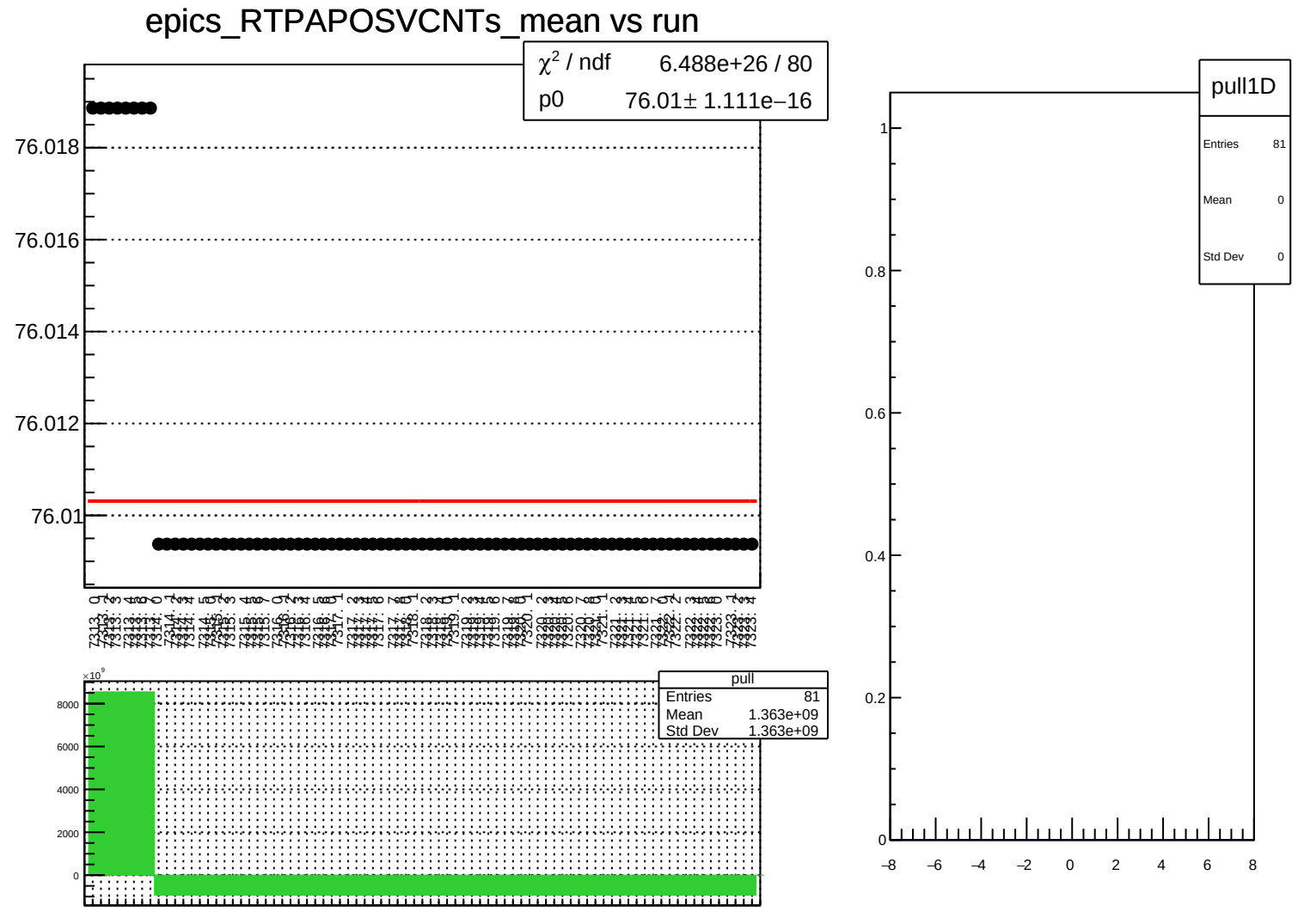

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.736e+25 / 71
p0 17.01± 1.179e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 72
Mean 0
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 72
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 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 2.87e+26 / 80
p0 1146 ± 1.111e−16
1146.01
1146.009
1146.008
1146.007
1146.006
1146.005
1146.004
1146.003
pull
Entries 81
Mean −6.158e+08
Std Dev 6.158e+08
×10⁹
1000
0
−1000
−2000
−3000
−4000
−5000


pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 6.488e+26 / 80
p0 76.01± 1.111e−16
76.018
76.016
76.014
76.012
76.01
pull
Entries 81
Mean 1.363e+09
Std Dev 1.363e+09
×10⁹
8000
6000
4000
2000
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8