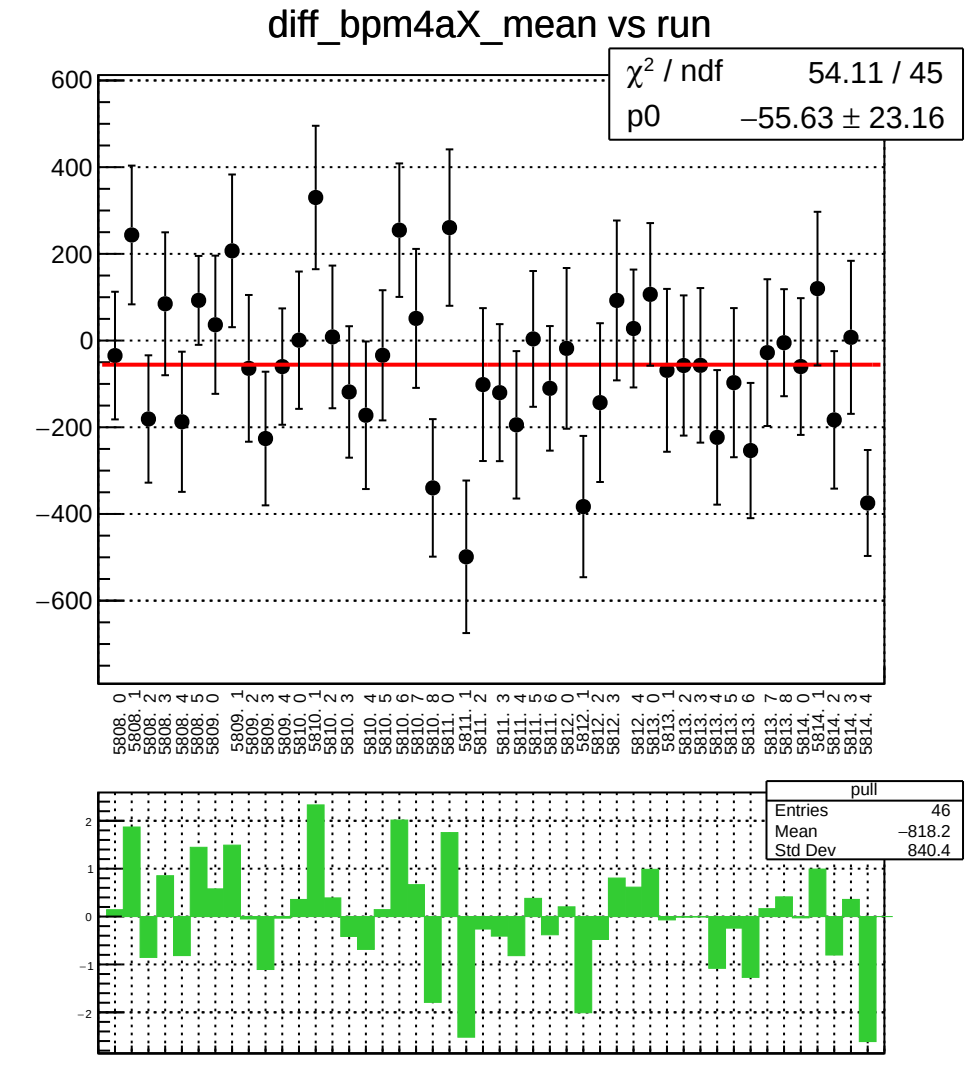
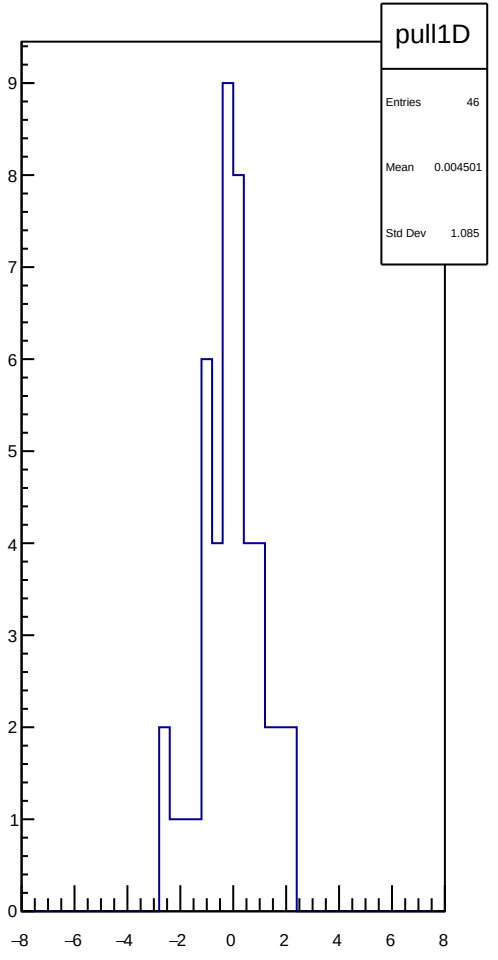
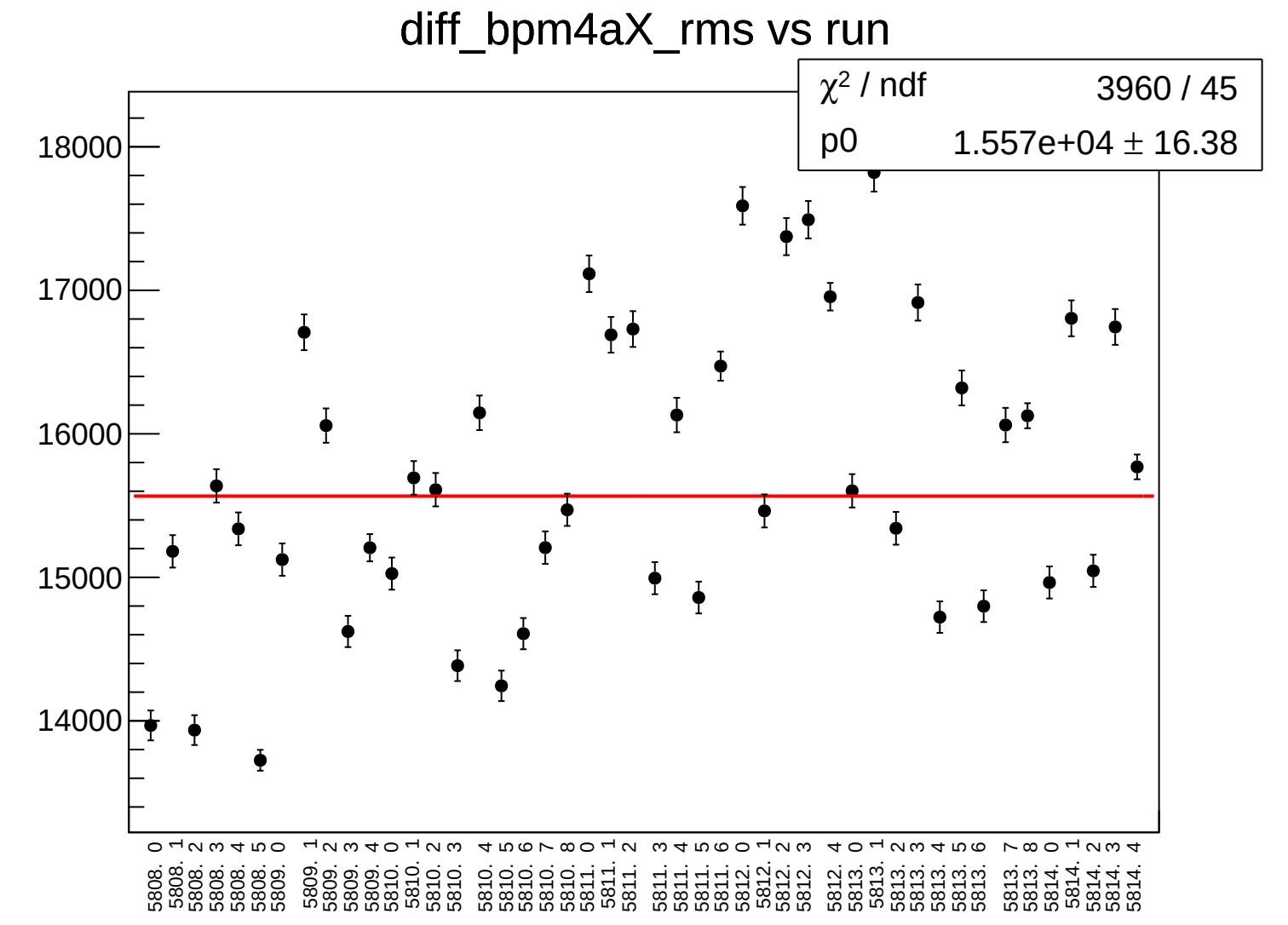
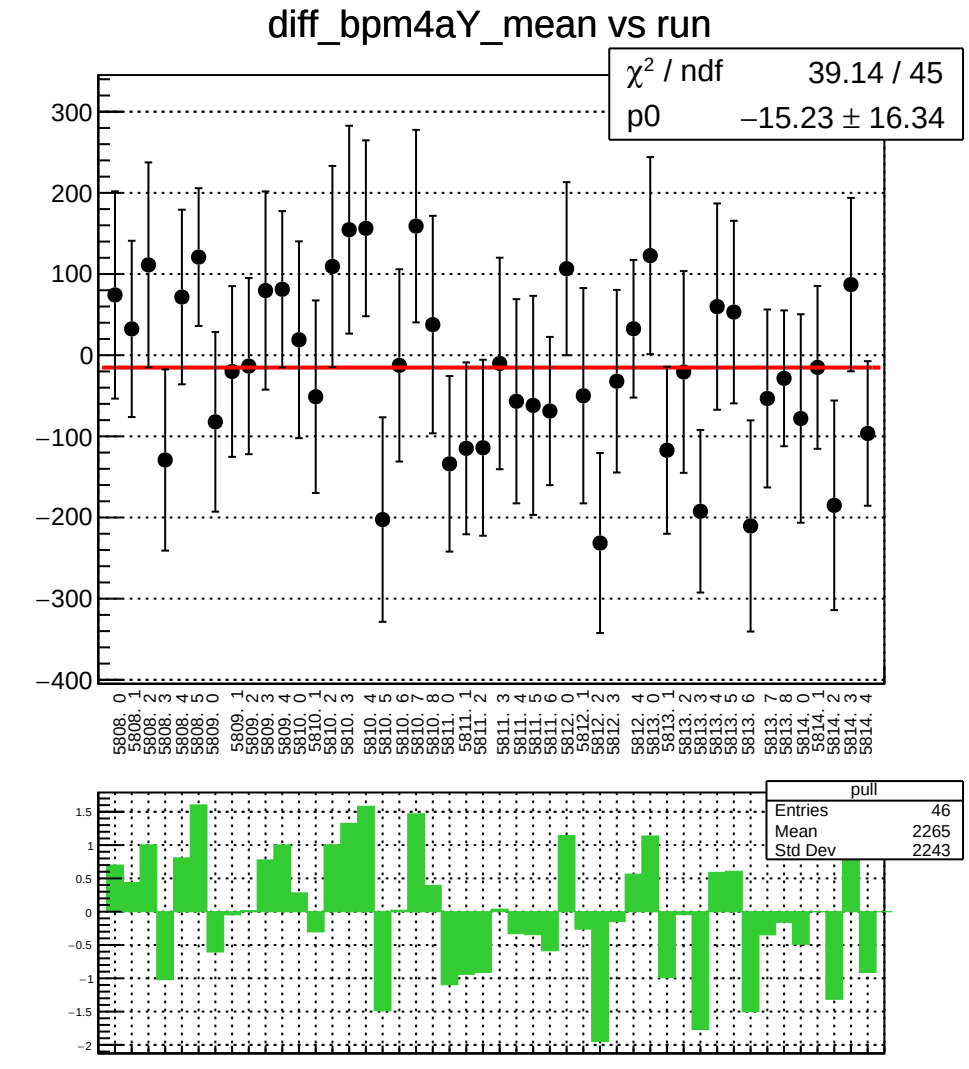
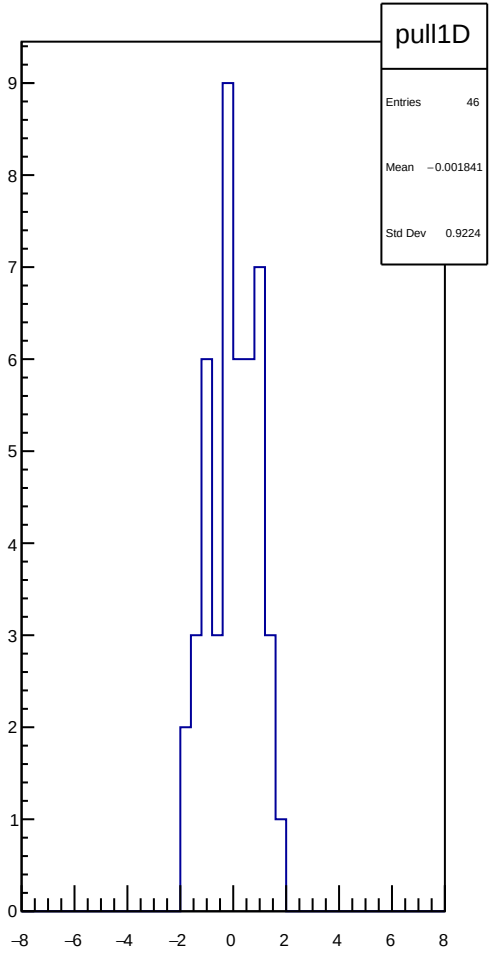
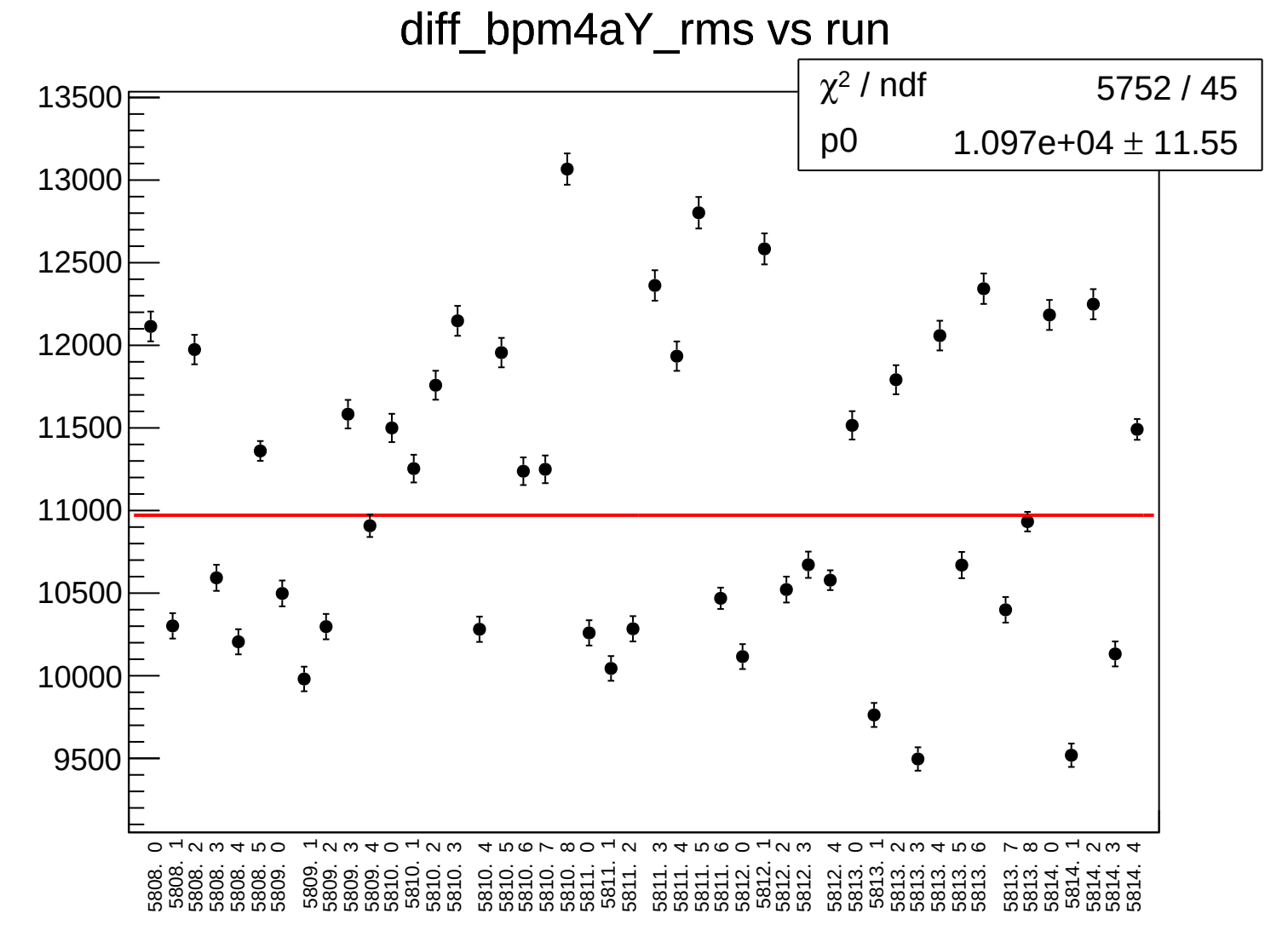

diff_bpm4aX_mean vs run
χ² / ndf 54.11 / 45
p0 −55.63 ± 23.16
600
400
200
0
−200
−400
−600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −818.2
Std Dev 840.4
2
1
0
−1
−2

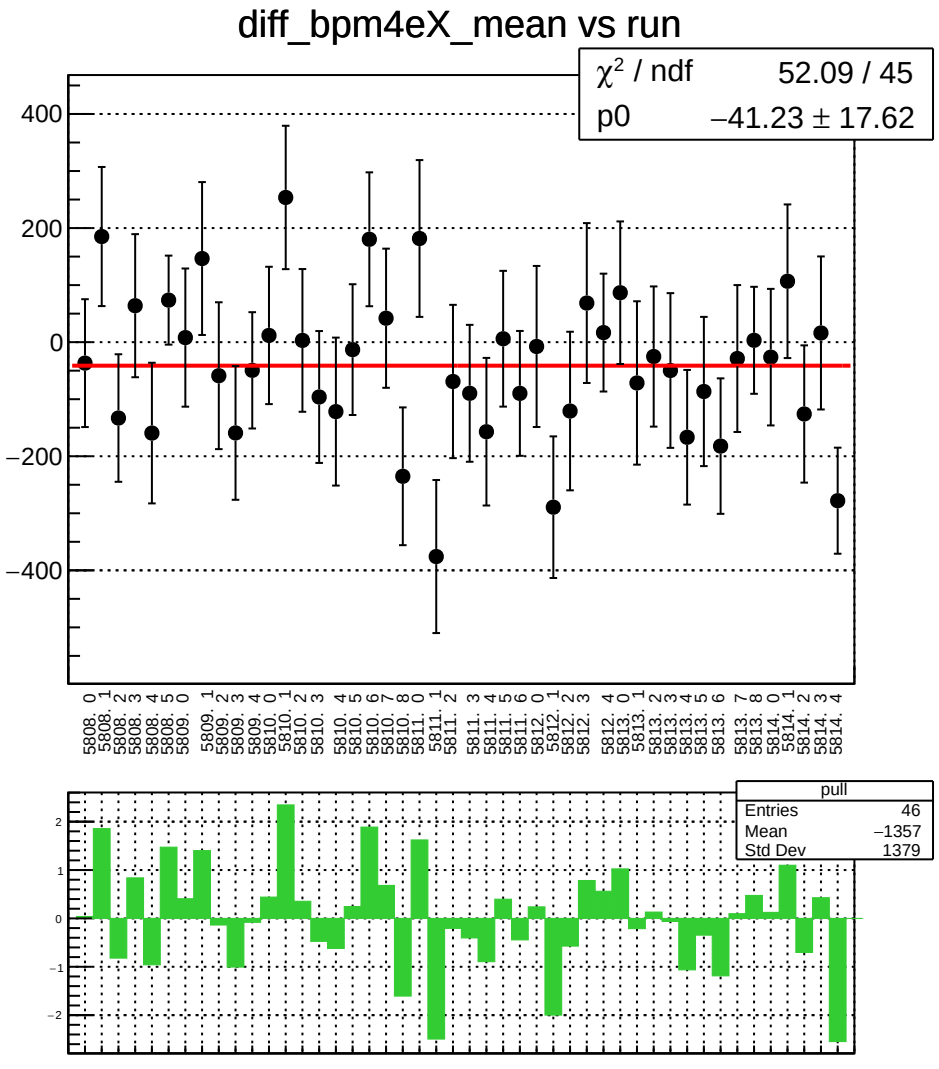

pull1D
Entries 46
Mean 0.004501
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

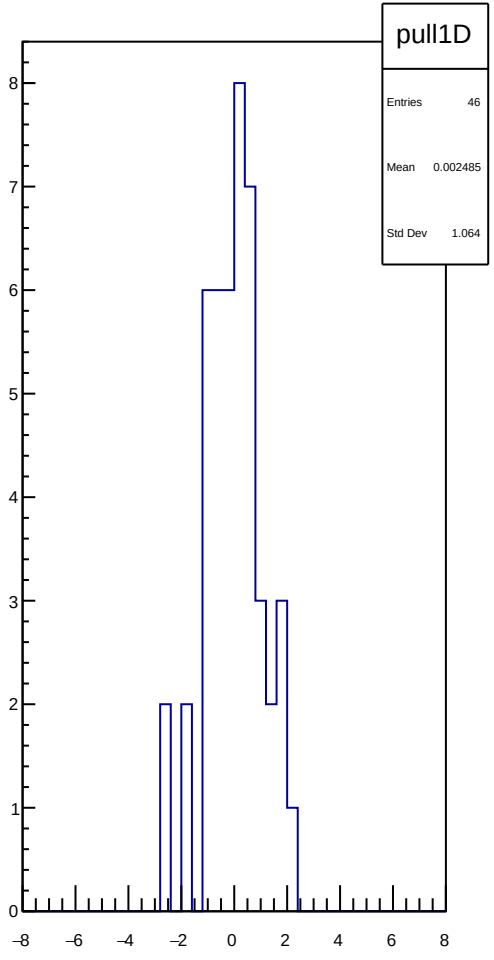

diff_bpm4aX_rms vs run
χ² / ndf 3960 / 45
p0 1.557e+04 ± 16.38
18000
17000
16000
15000
14000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

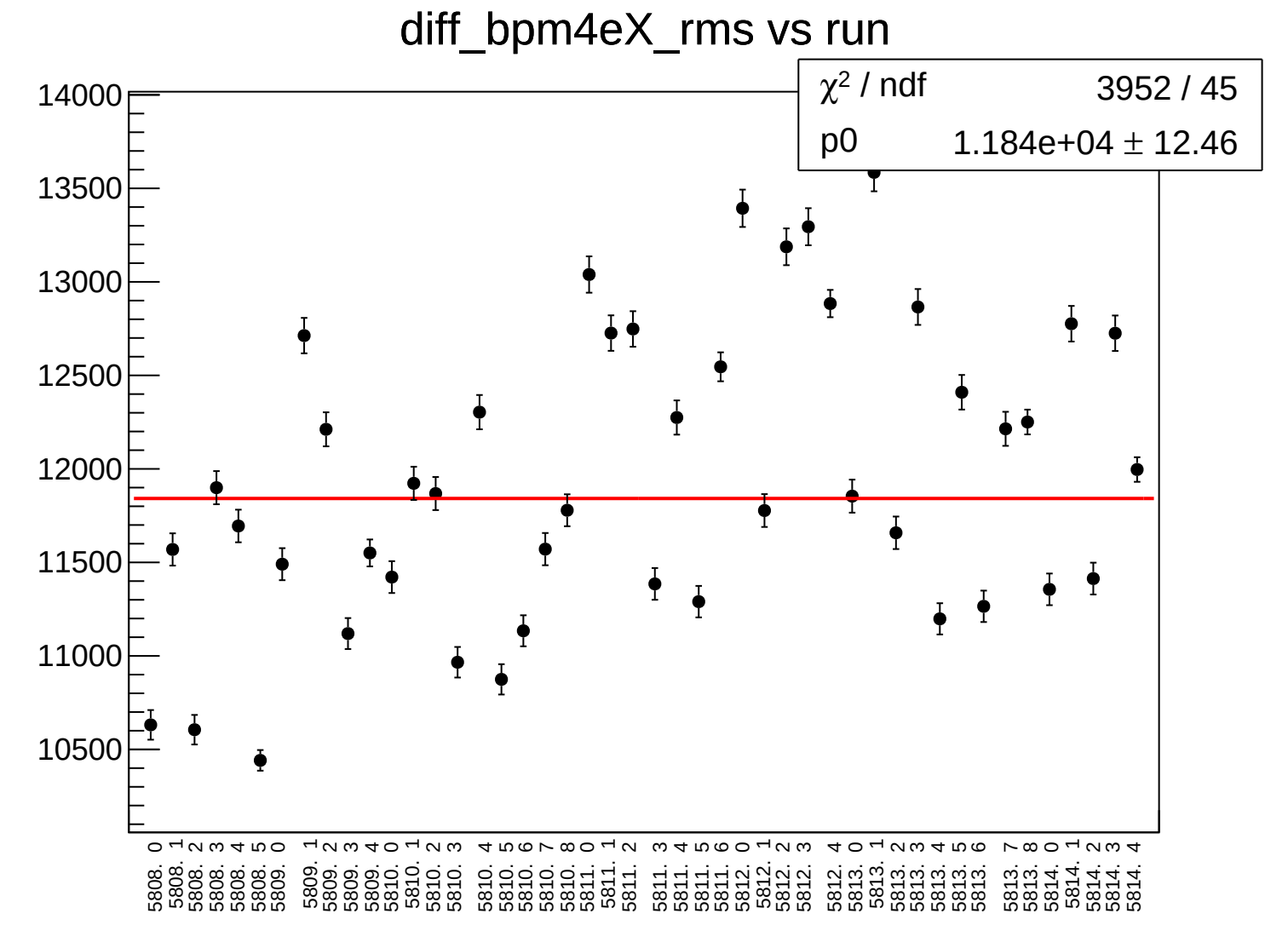

diff_bpm4aY_mean vs run
χ² / ndf 39.14 / 45
p0 −15.23 ± 16.34
pull
Entries 46
Mean 2265
Std Dev 2243

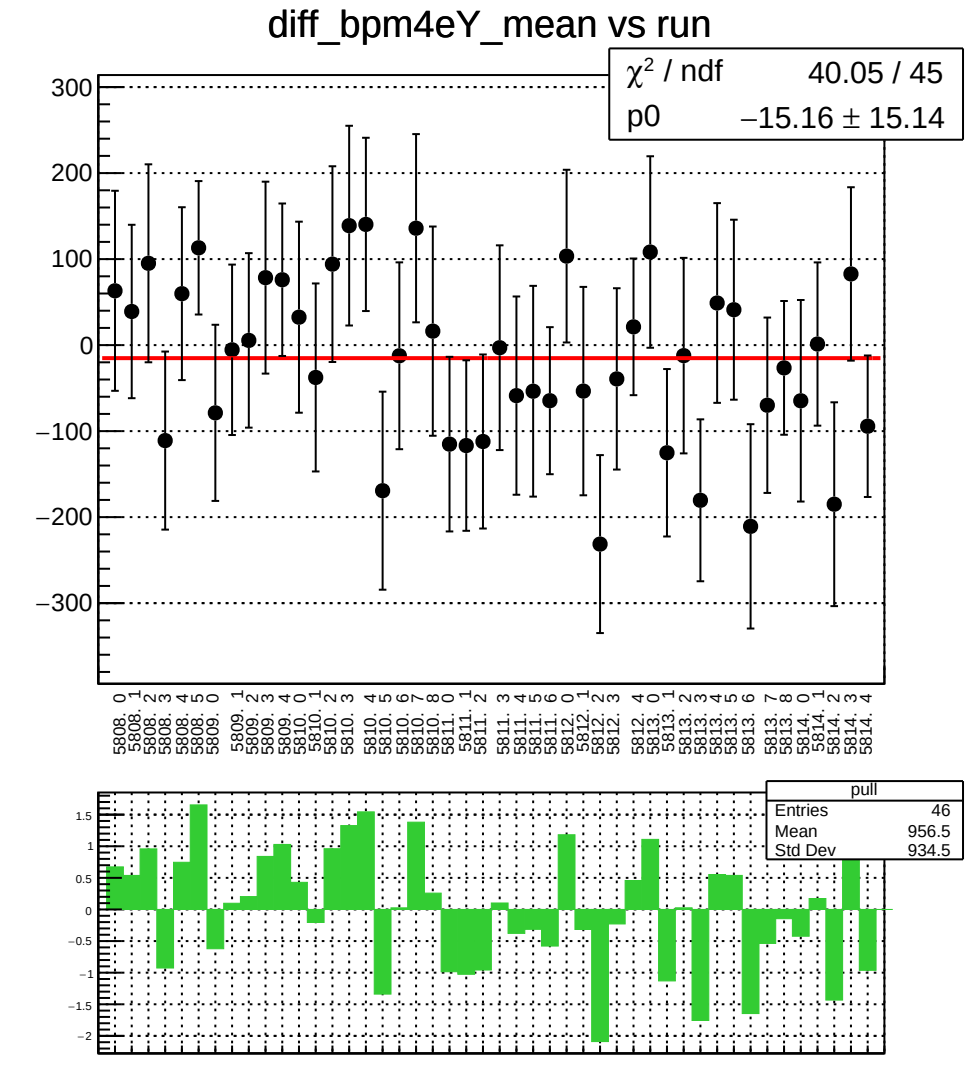

pull1D
Entries 46
Mean −0.001841
Std Dev 0.9224

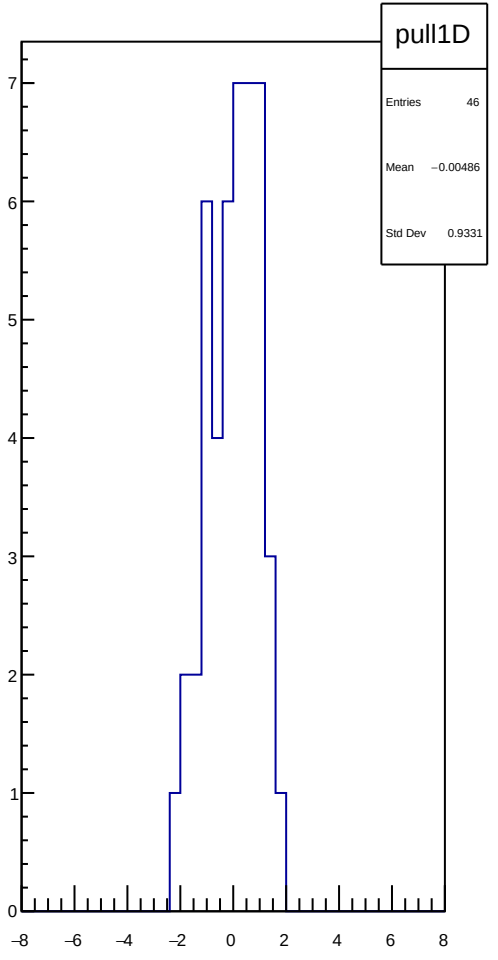

diff_bpm4aY_rms vs run
χ² / ndf 5752 / 45
p0 1.097e+04 ± 11.55
13500
13000
12500
12000
11500
11000
10500
10000
9500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

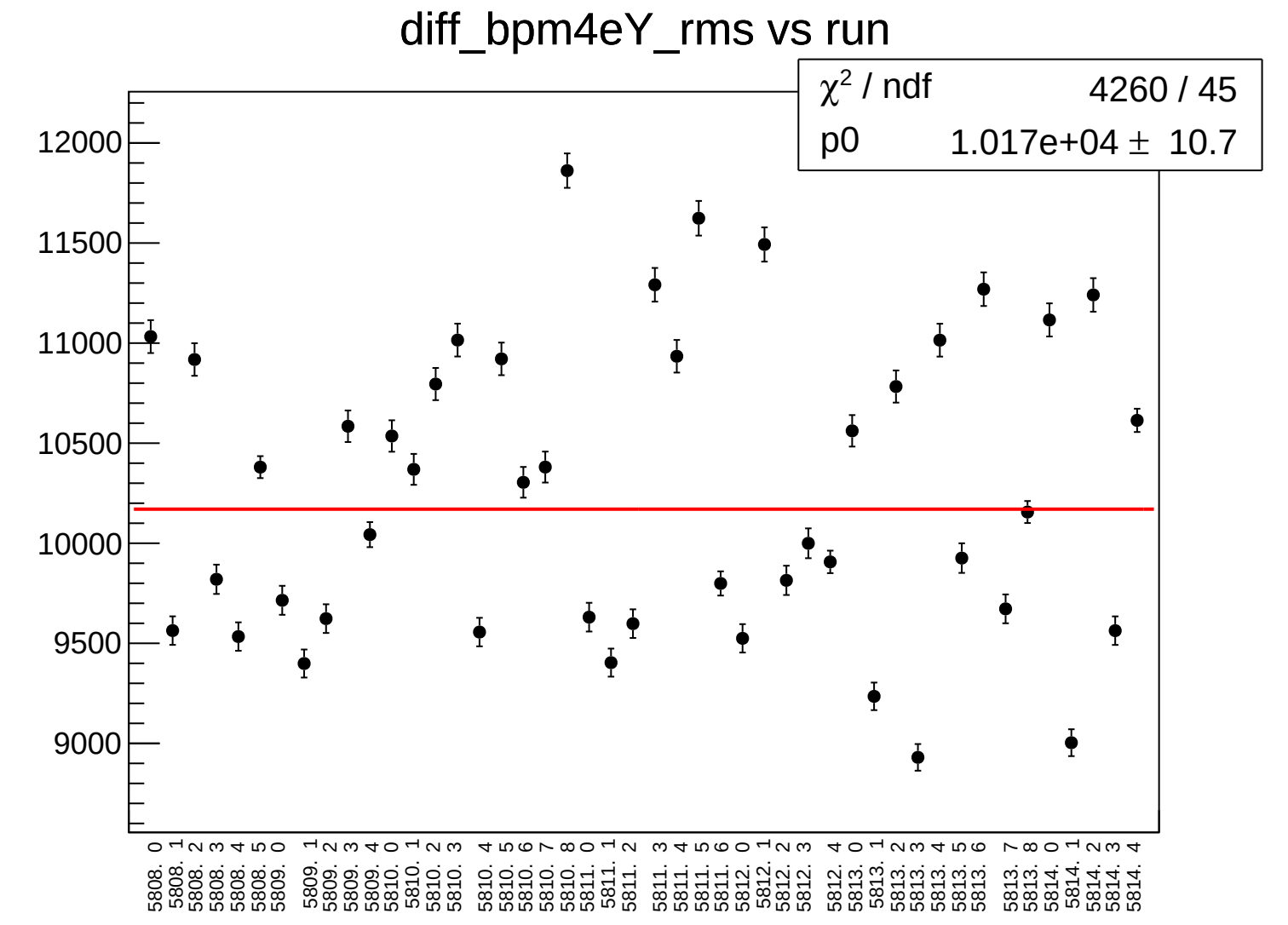

diff_bpm4eX_mean vs run
χ² / ndf 52.09 / 45
p0 −41.23 ± 17.62
400
200
0
−200
−400
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1357
Std Dev 1379
2
1
0
−1
−2

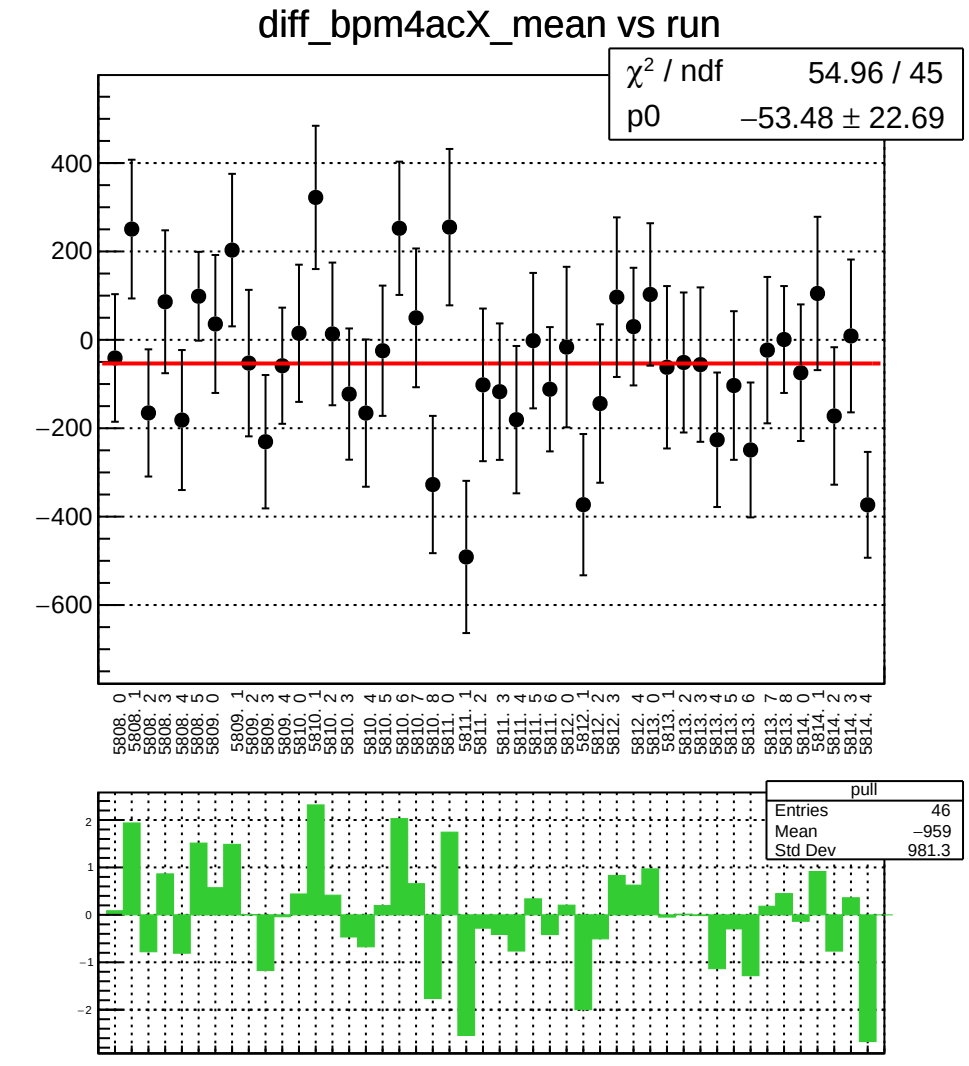

pull1D
Entries 46
Mean 0.002485
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

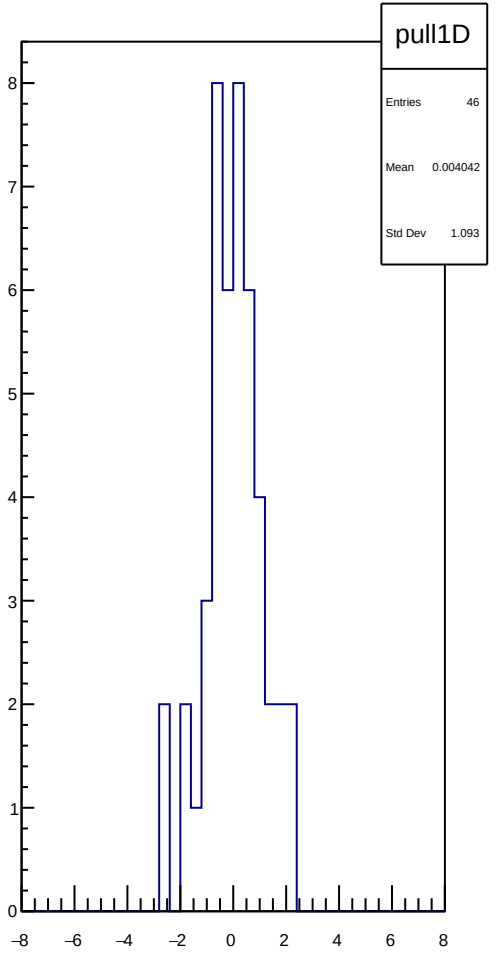

diff_bpm4eX_rms vs run
χ² / ndf 3952 / 45
p0 1.184e+04 ± 12.46
14000
13500
13000
12500
12000
11500
11000
10500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

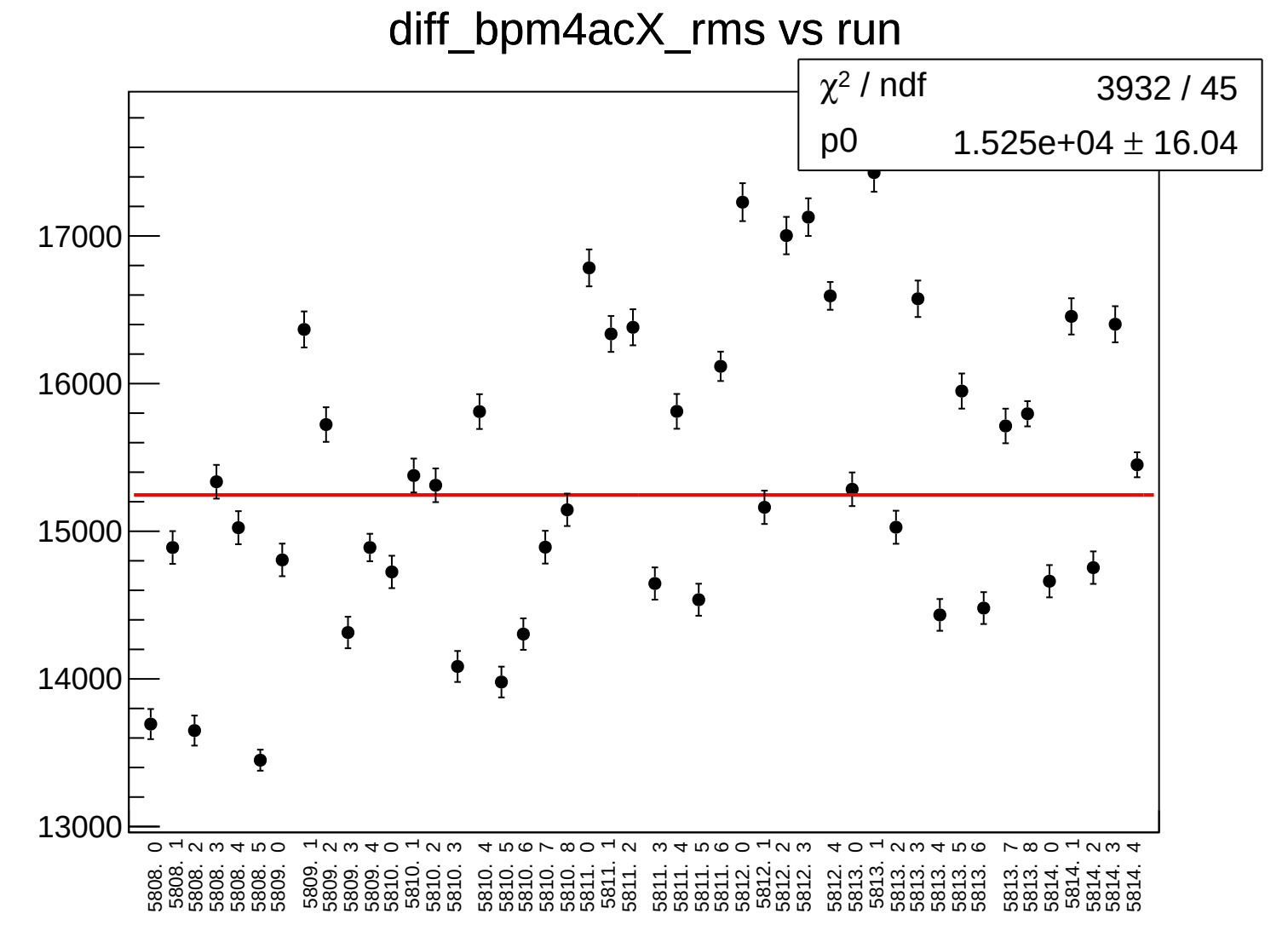

diff_bpm4eY_mean vs run
χ² / ndf 40.05 / 45
p0 −15.16 ± 15.14
300
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 956.5
Std Dev 934.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

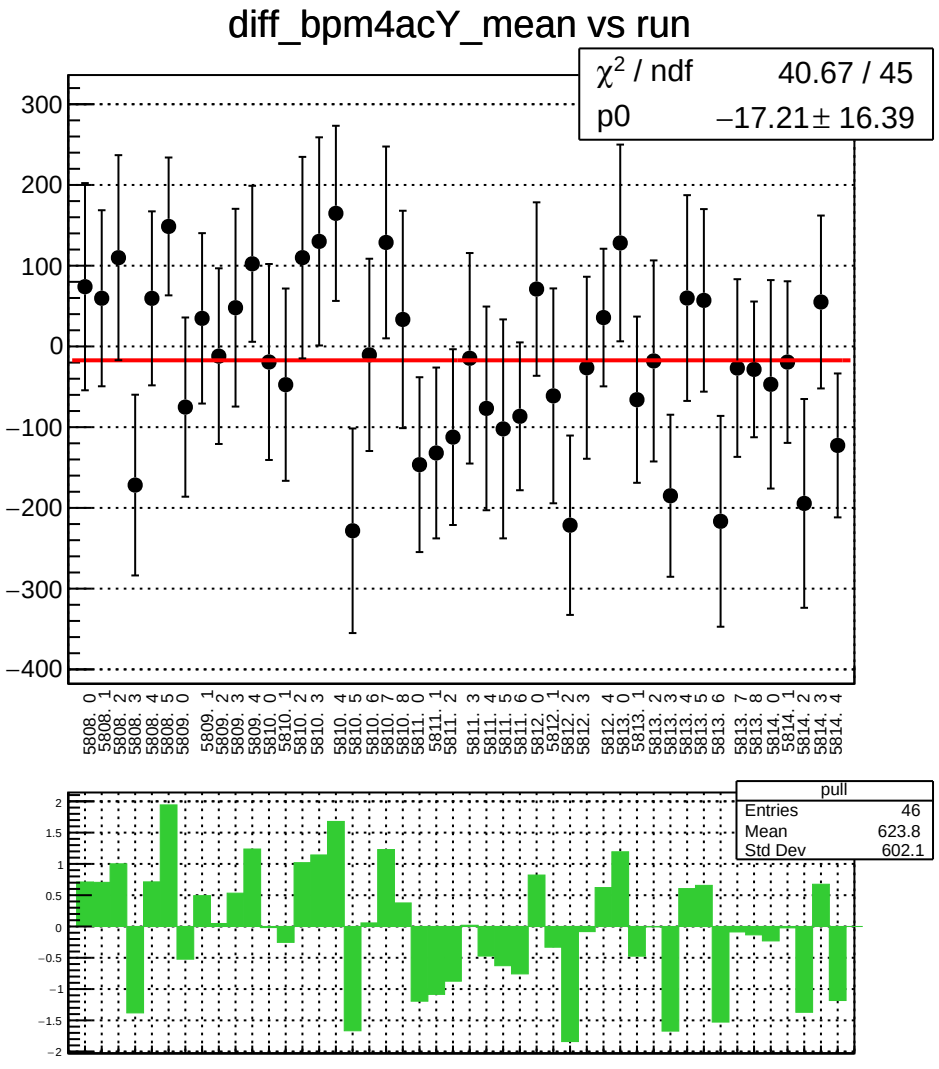

pull1D
Entries 46
Mean −0.00486
Std Dev 0.9331
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

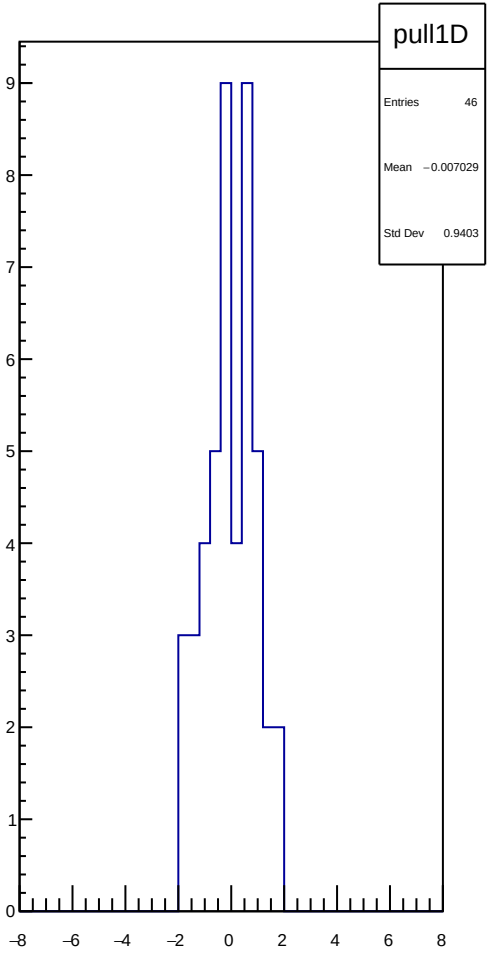

diff_bpm4eY_rms vs run
χ² / ndf 4260 / 45
p0 1.017e+04 ± 10.7
12000
11500
11000
10500
10000
9500
9000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

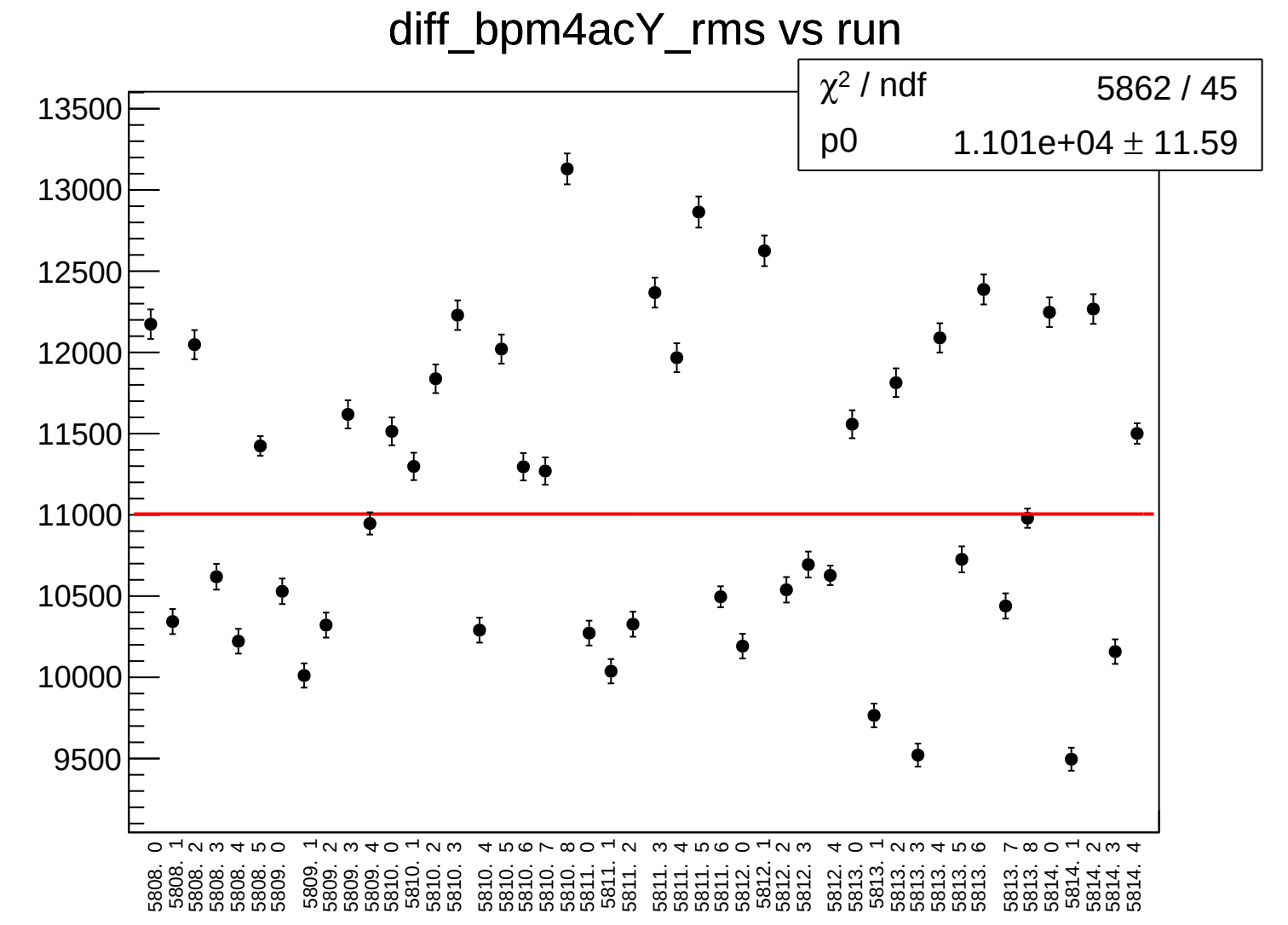

diff_bpm4acX_mean vs run
χ² / ndf 54.96 / 45
p0 −53.48 ± 22.69
400
200
0
−200
−400
−600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −959
Std Dev 981.3
2
1
0
−1
−2

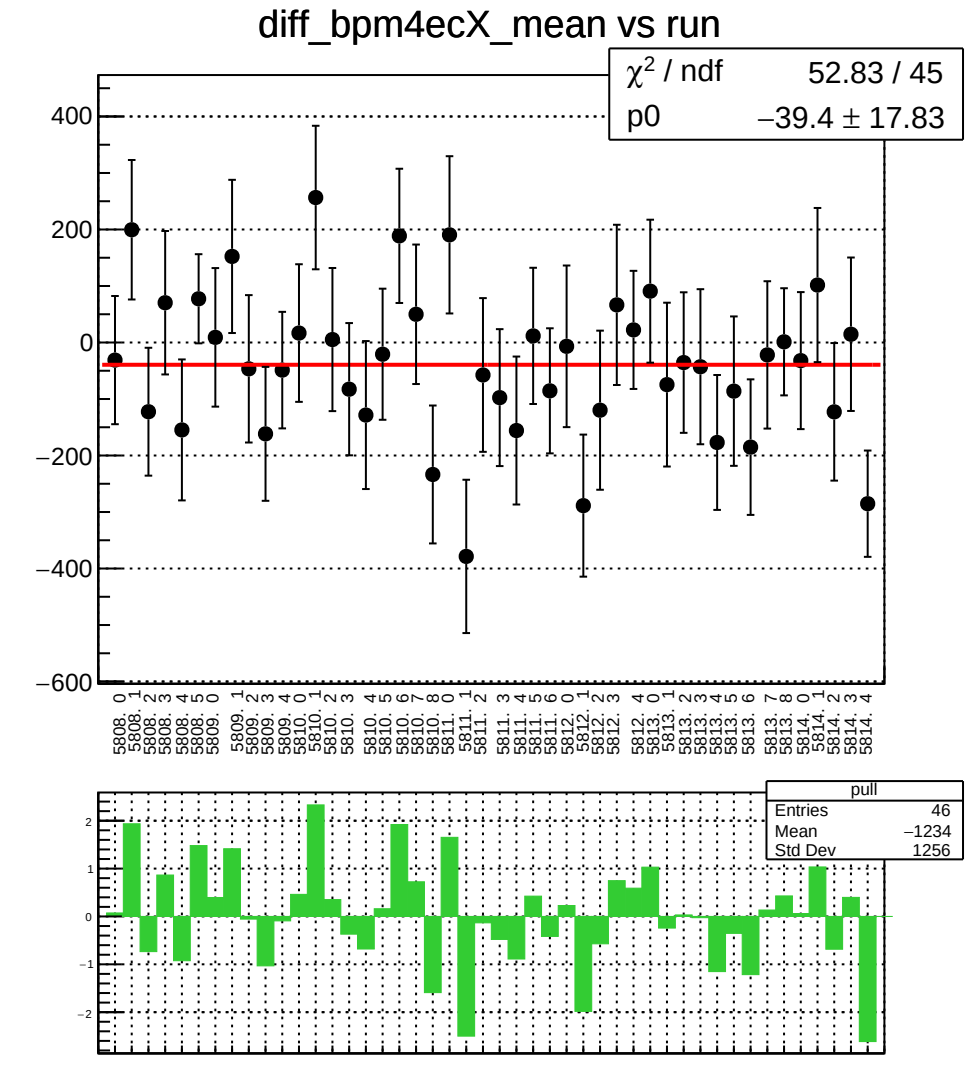

pull1D
Entries 46
Mean 0.004042
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

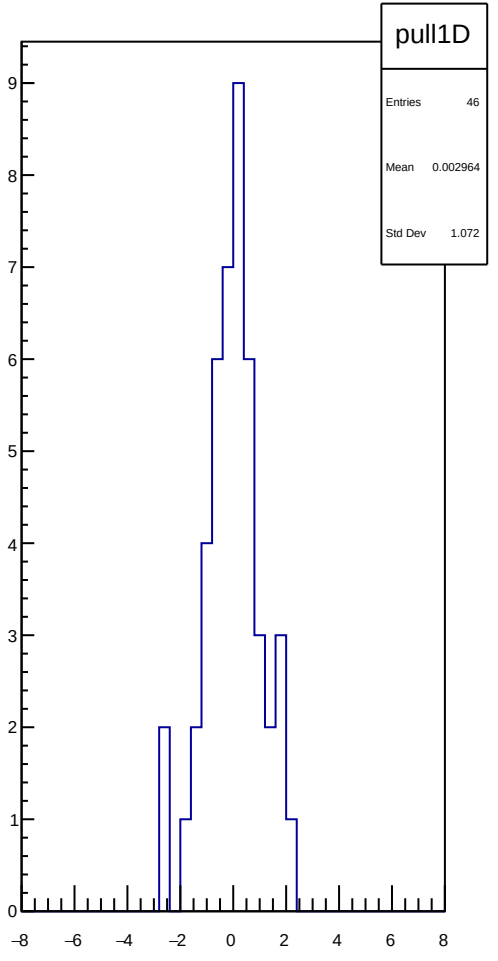

diff_bpm4acX_rms vs run
χ² / ndf 3932 / 45
p0 1.525e+04 ± 16.04
17000
16000
15000
14000
13000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

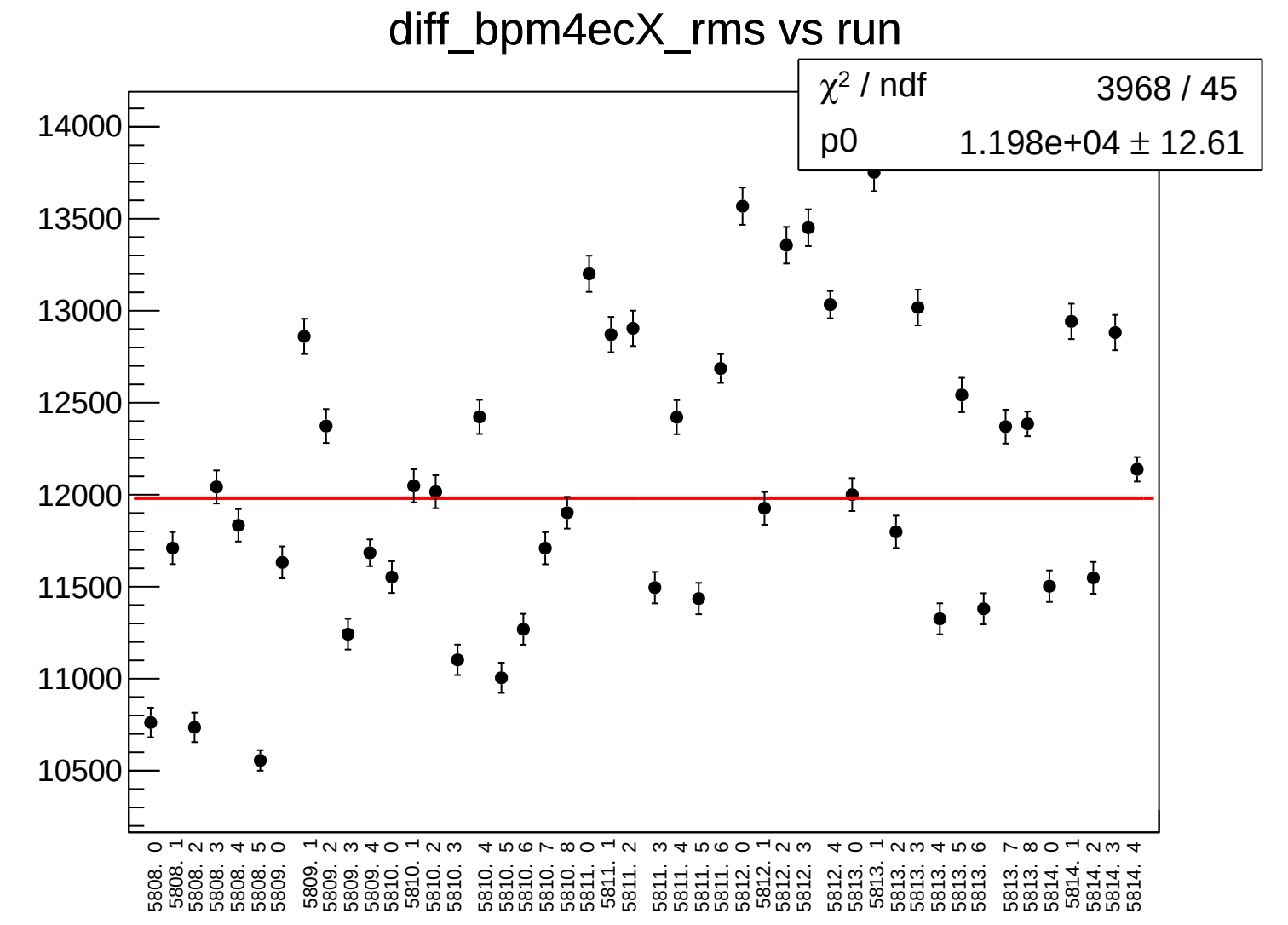

diff_bpm4acY_mean vs run
χ² / ndf 40.67 / 45
p0 −17.21± 16.39
pull
Entries 46
Mean 623.8
Std Dev 602.1

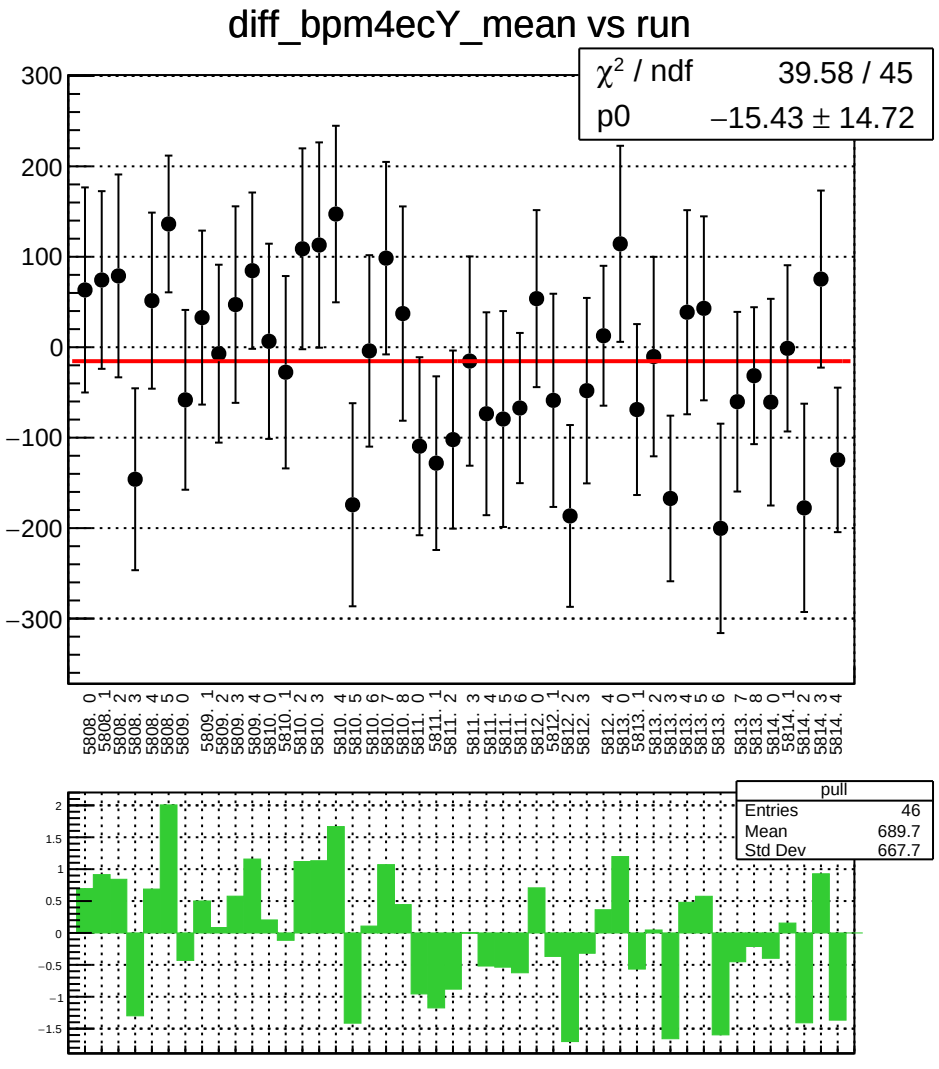

pull1D
Entries 46
Mean −0.007029
Std Dev 0.9403

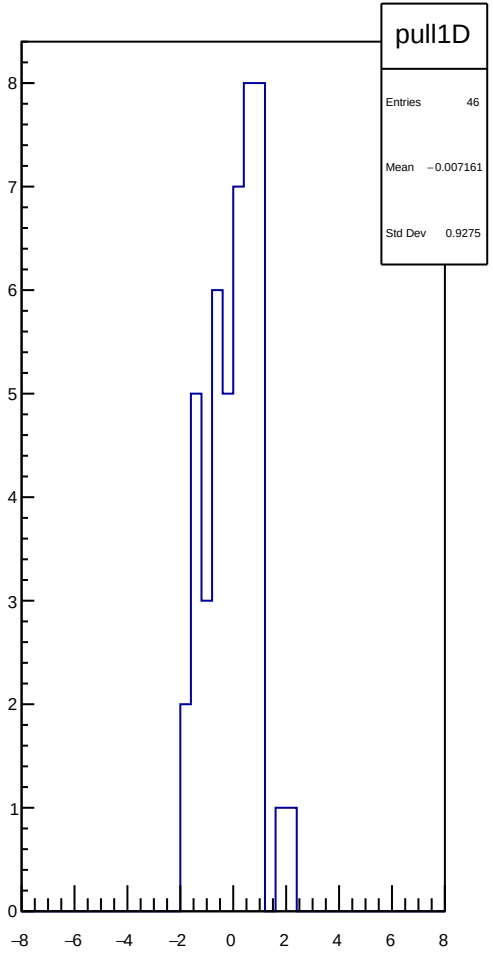

diff_bpm4acY_rms vs run
χ² / ndf 5862 / 45
p0 1.101e+04 ± 11.59
13500
13000
12500
12000
11500
11000
10500
10000
9500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

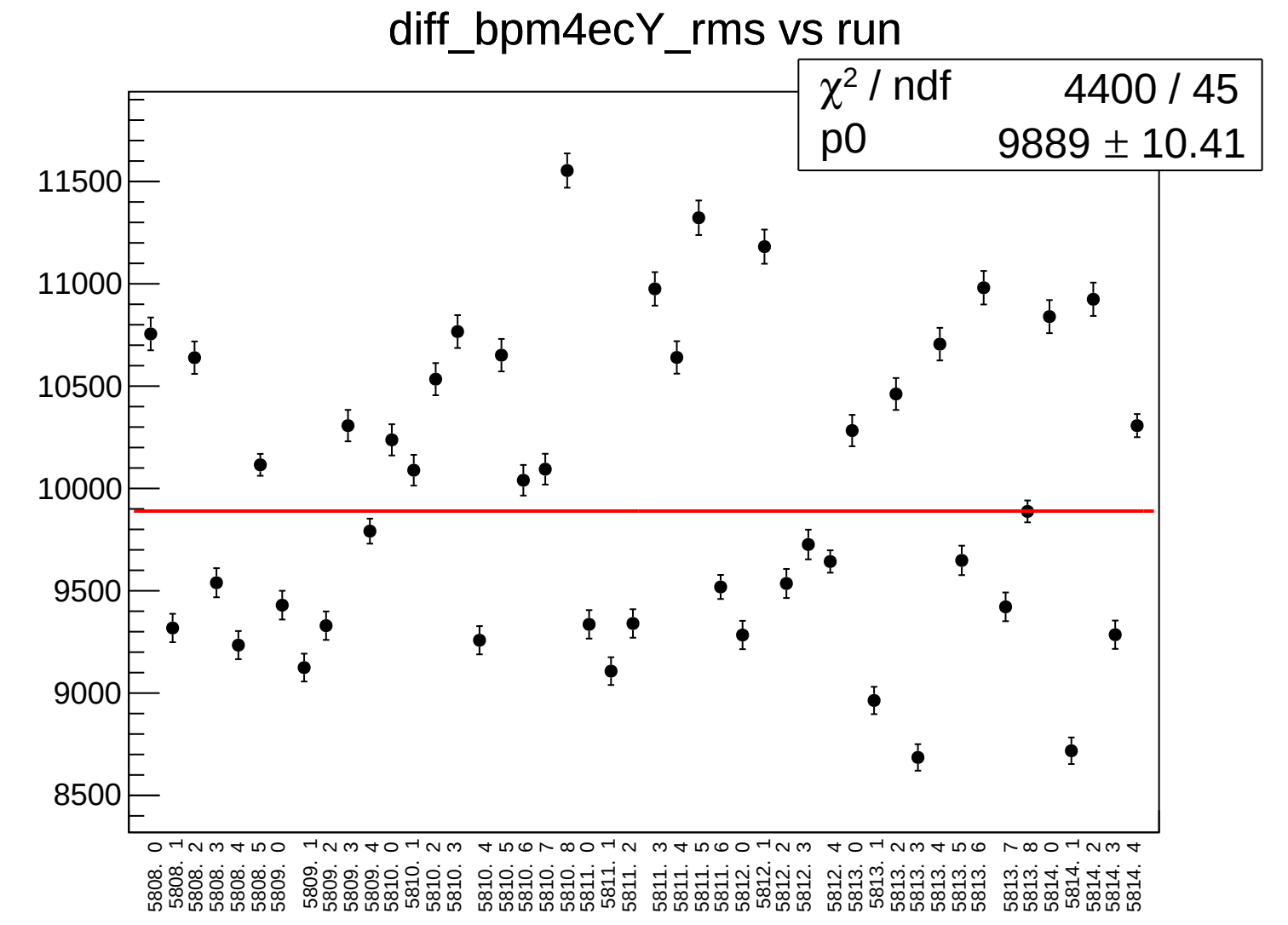

diff_bpm4ecX_mean vs run
χ² / ndf 52.83 / 45
p0 −39.4 ± 17.83
400
200
0
−200
−400
−600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1234
Std Dev 1256
2
1
0
−1
−2

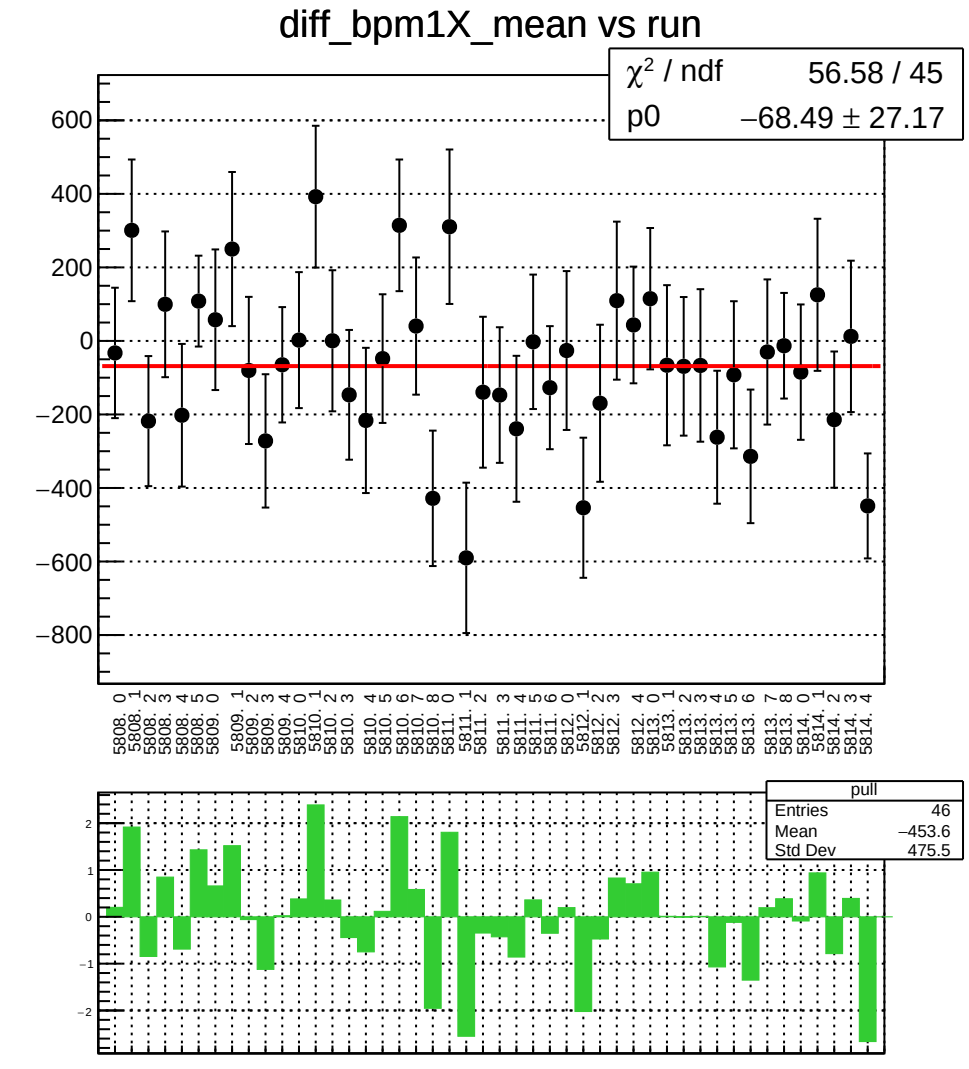

pull1D
Entries 46
Mean 0.002964
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

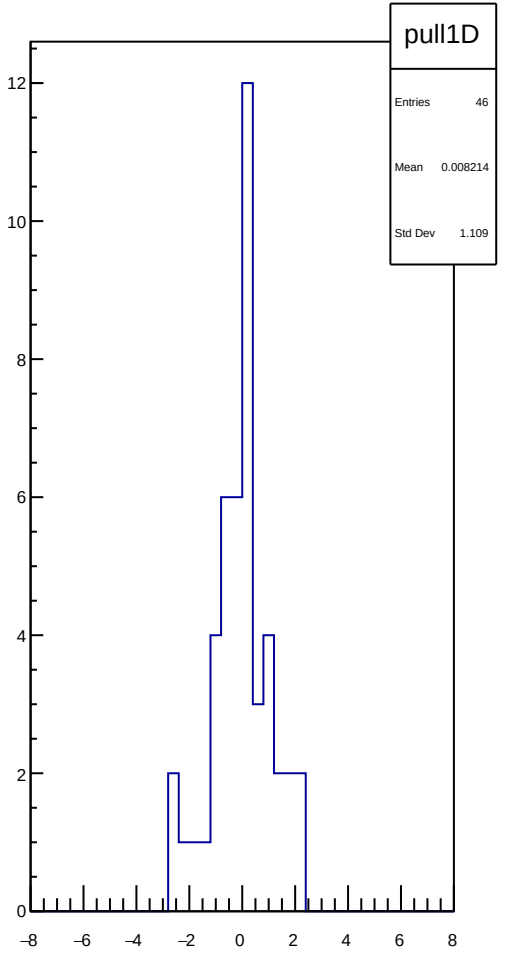

diff_bpm4ecX_rms vs run
χ² / ndf 3968 / 45
p0 1.198e+04 ± 12.61
14000
13500
13000
12500
12000
11500
11000
10500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

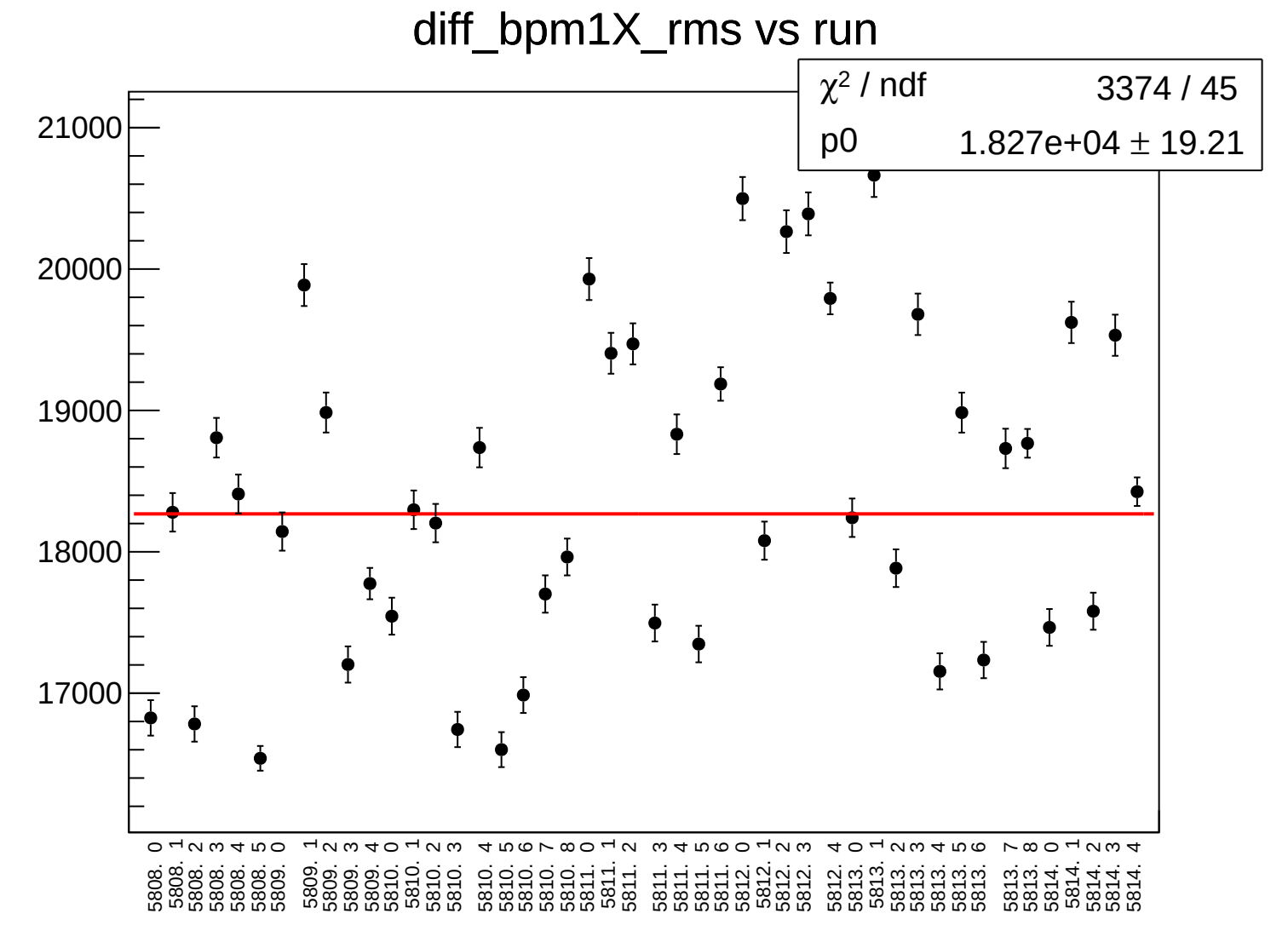

diff_bpm4ecY_mean vs run
χ² / ndf 39.58 / 45
p0 −15.43 ± 14.72
300
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 689.7
Std Dev 667.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

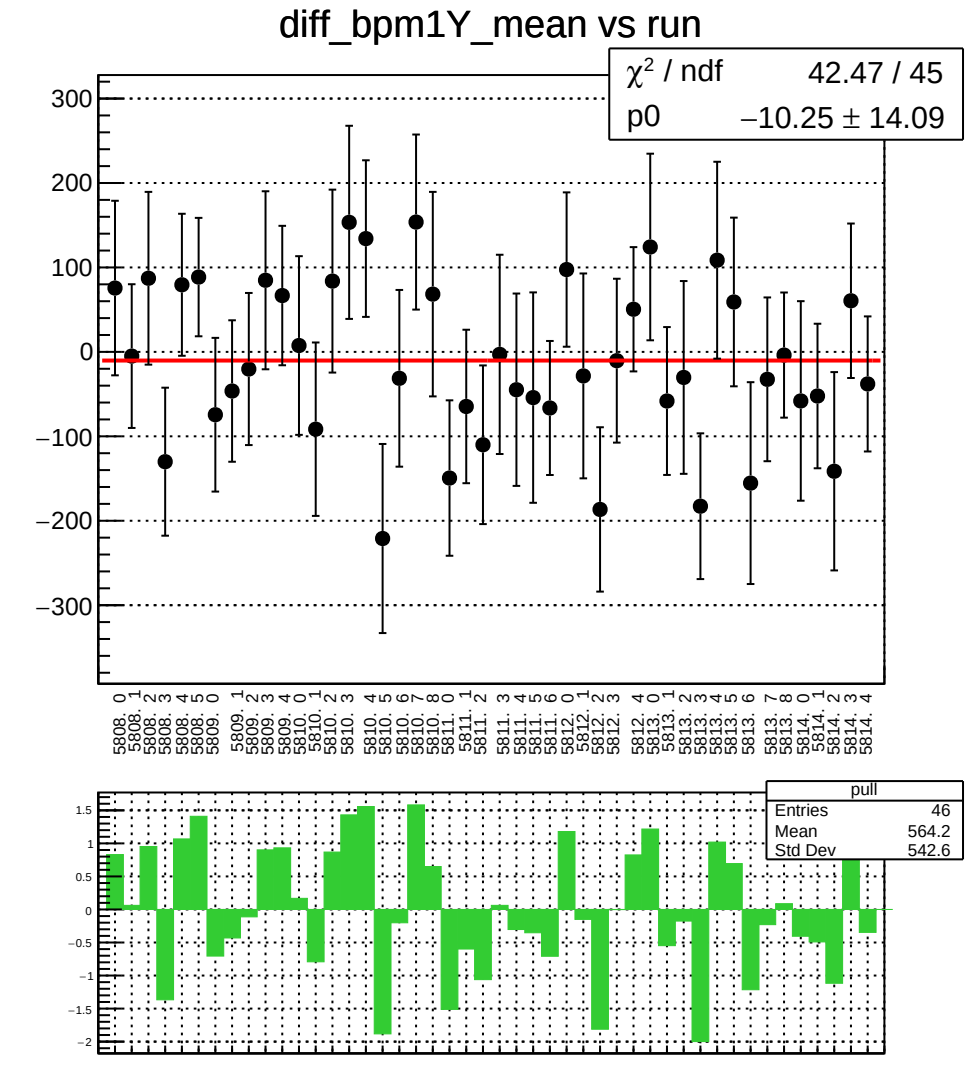

pull1D
Entries 46
Mean −0.007161
Std Dev 0.9275
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

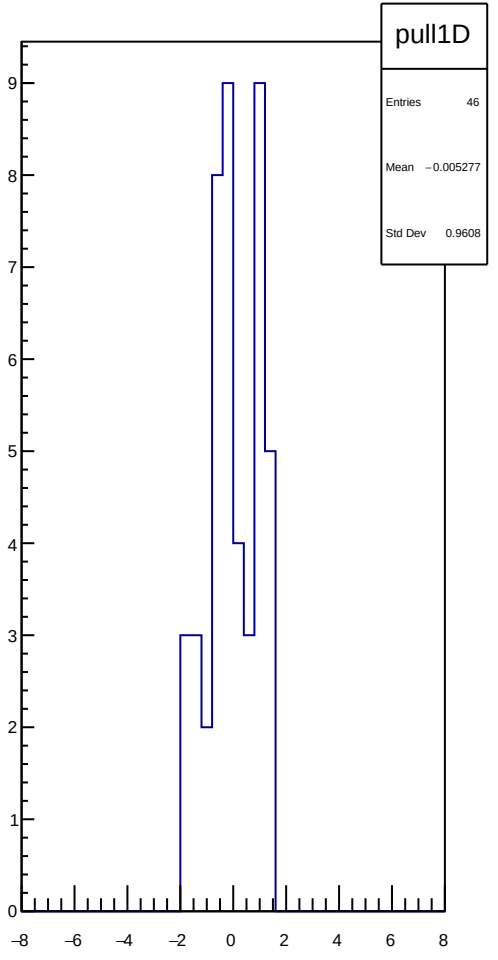

diff_bpm4ecY_rms vs run
χ² / ndf 4400 / 45
p0 9889 ± 10.41
11500
11000
10500
10000
9500
9000
8500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

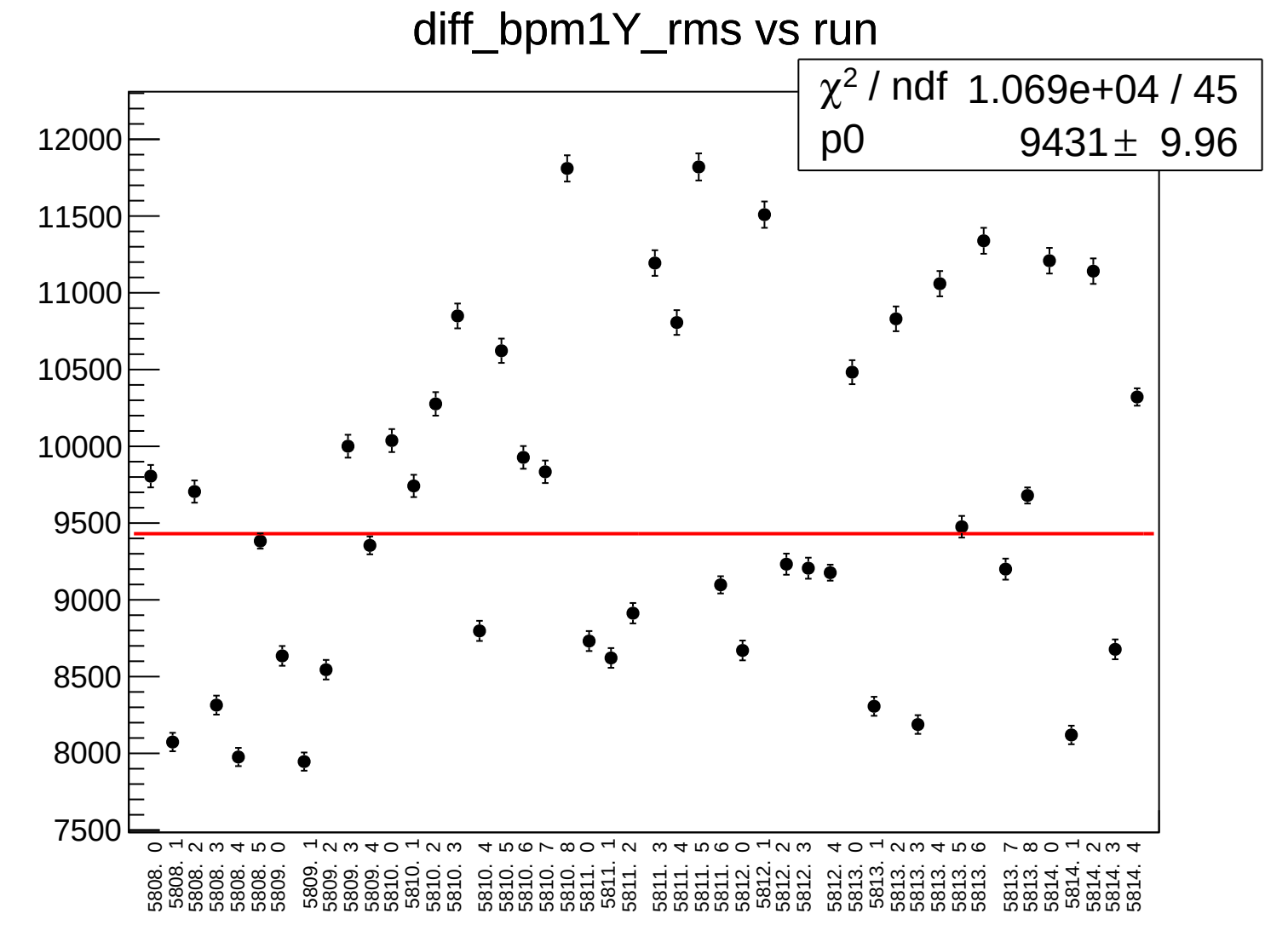

diff_bpm1X_mean vs run
χ² / ndf 56.58 / 45
p0 −68.49 ± 27.17
600
400
200
0
−200
−400
−600
−800
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 5
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −453.6
Std Dev 475.5
2
1
0
−1
−2

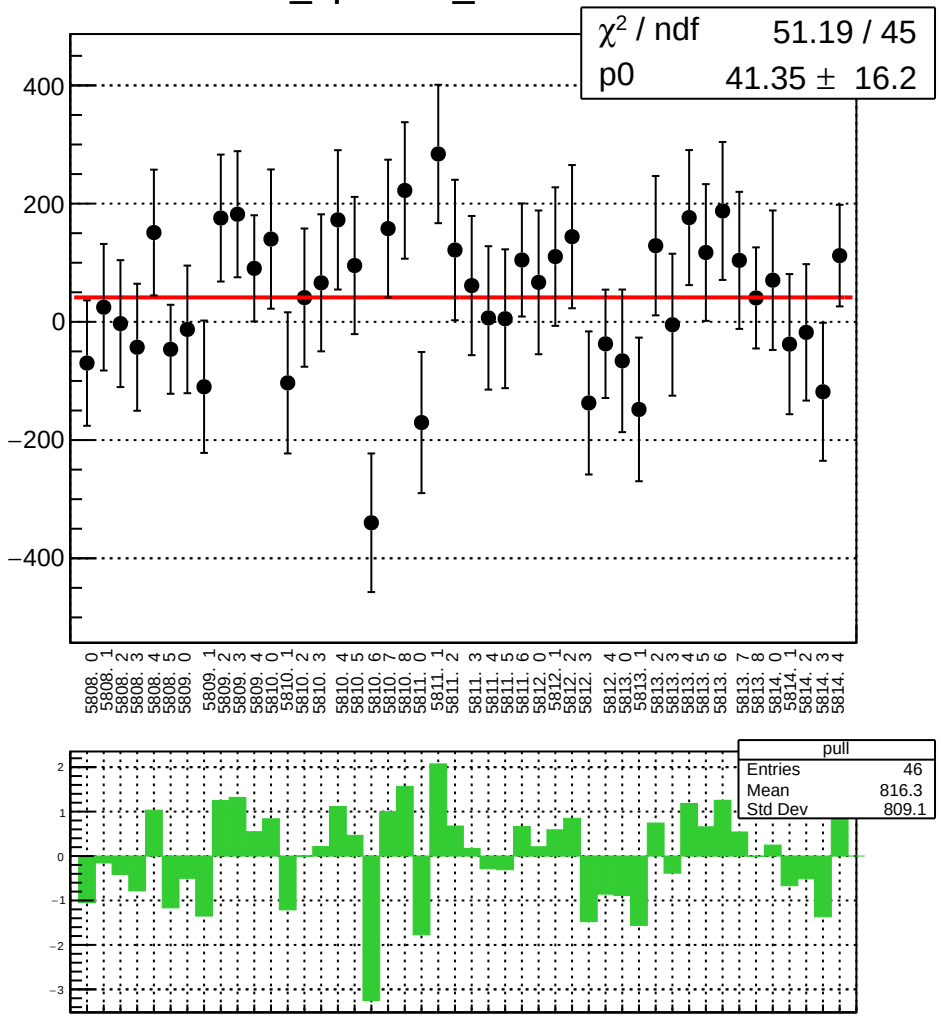

pull1D
Entries 46
Mean 0.008214
Std Dev 1.109
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

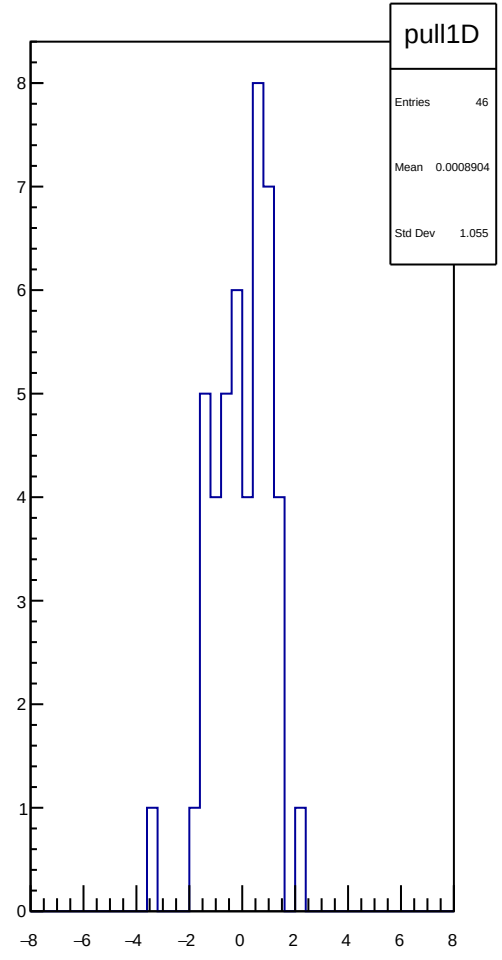

diff_bpm1X_rms vs run
χ² / ndf 3374 / 45
p0 1.827e+04 ± 19.21
21000
20000
19000
18000
17000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

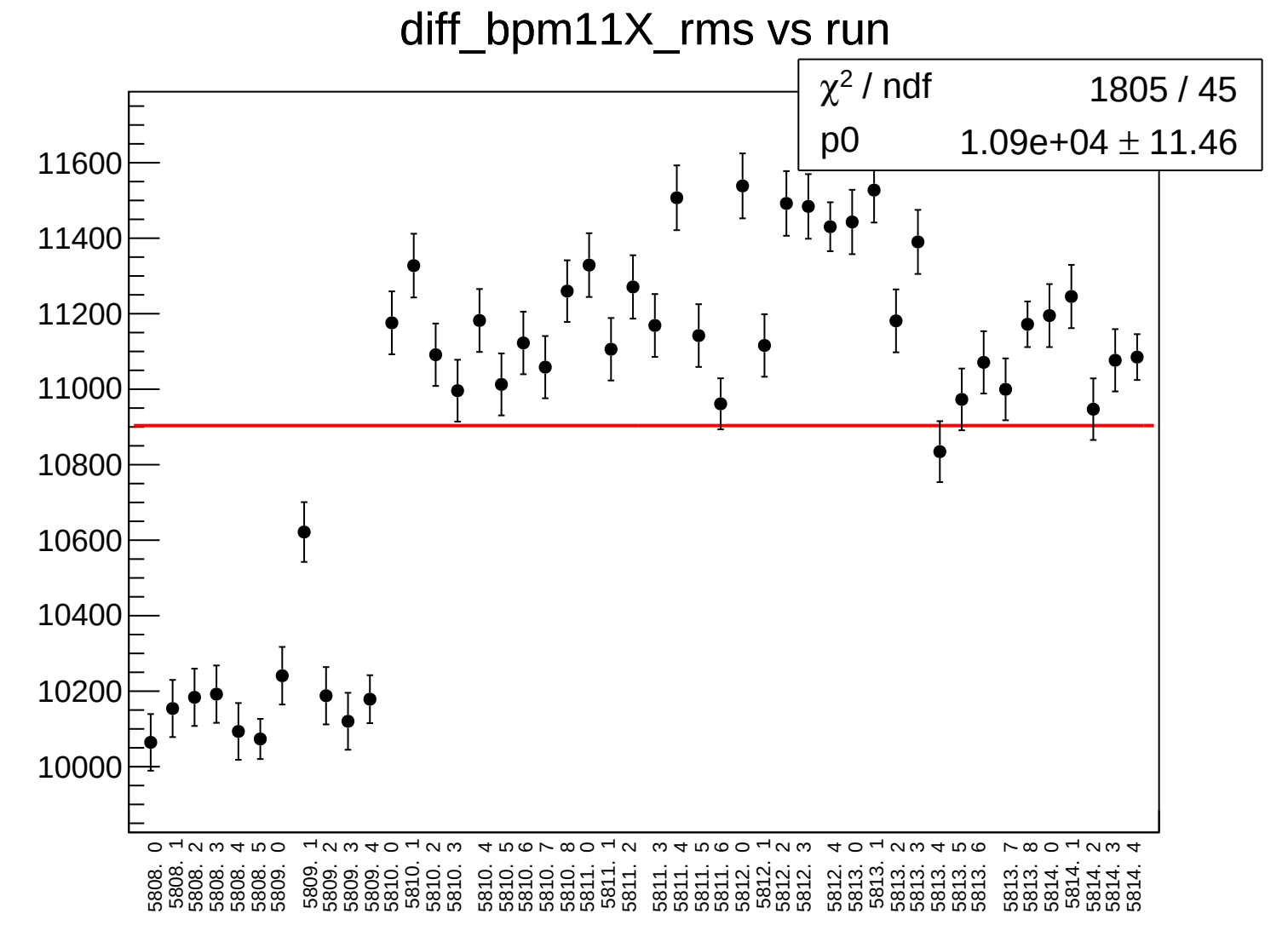

diff_bpm1Y_mean vs run
χ² / ndf 42.47 / 45
p0 −10.25 ± 14.09
300
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 564.2
Std Dev 542.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

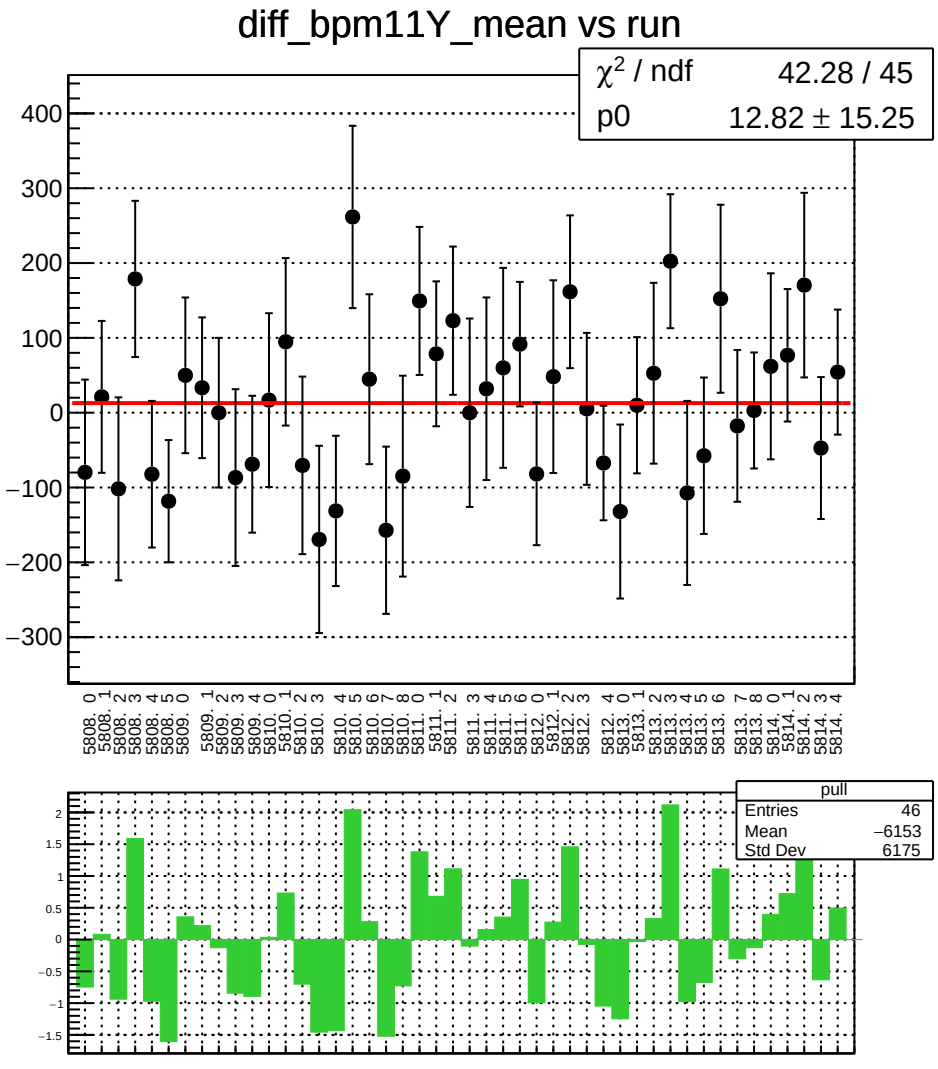

pull1D
Entries 46
Mean −0.005277
Std Dev 0.9608
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

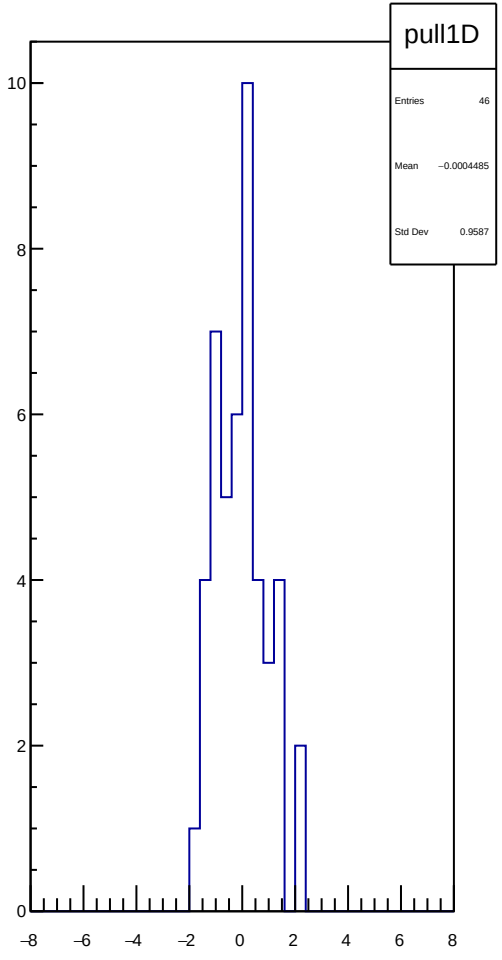

diff_bpm1Y_rms vs run
χ² / ndf 1.069e+04 / 45
p0 9431 ± 9.96
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

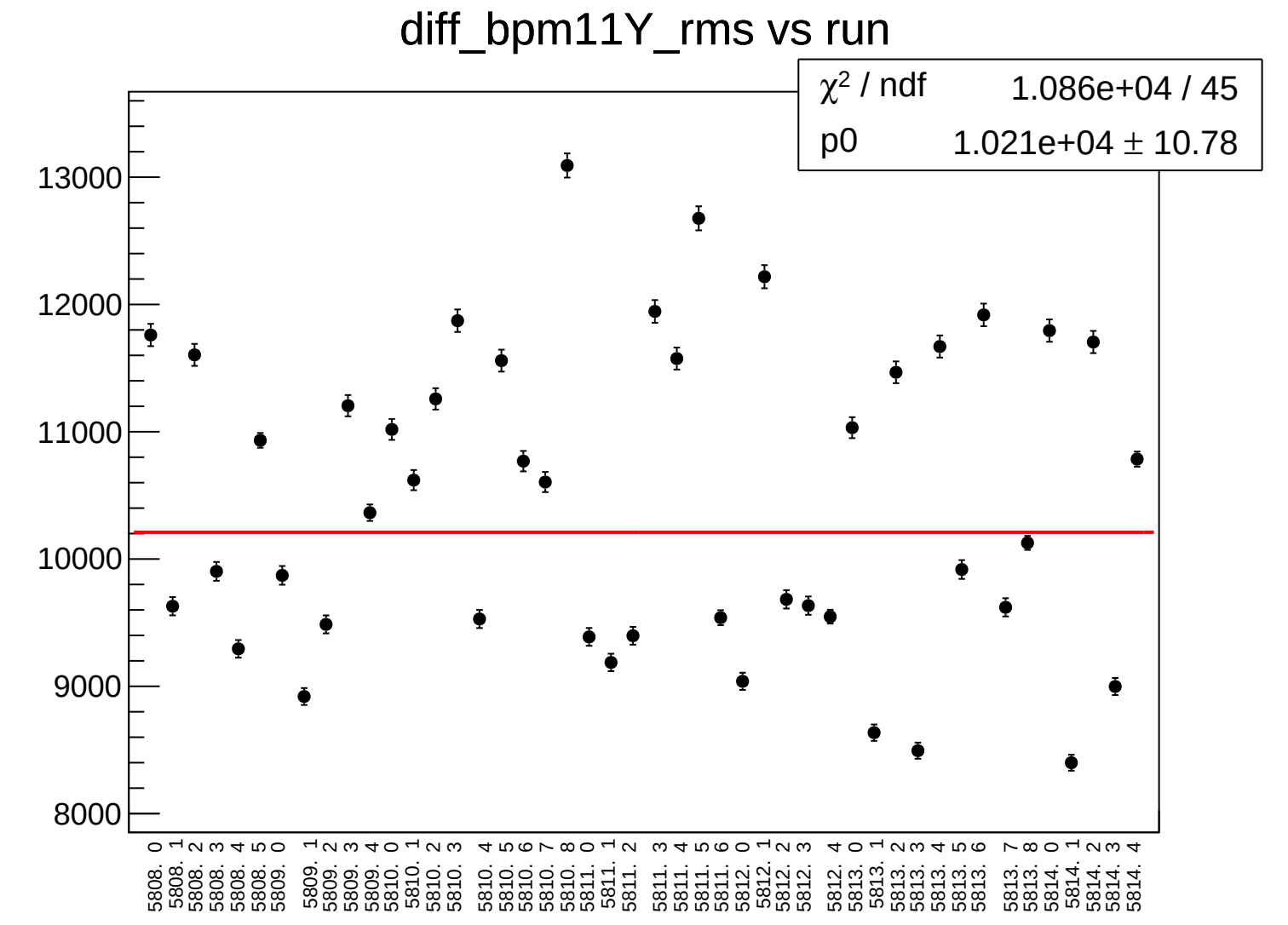

diff_bpm11X_mean vs run
χ² / ndf 51.19 / 45
p0 41.35 ± 16.2
400
200
0
−200
−400
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 816.3
Std Dev 809.1
2
1
0
−1
−2
−3

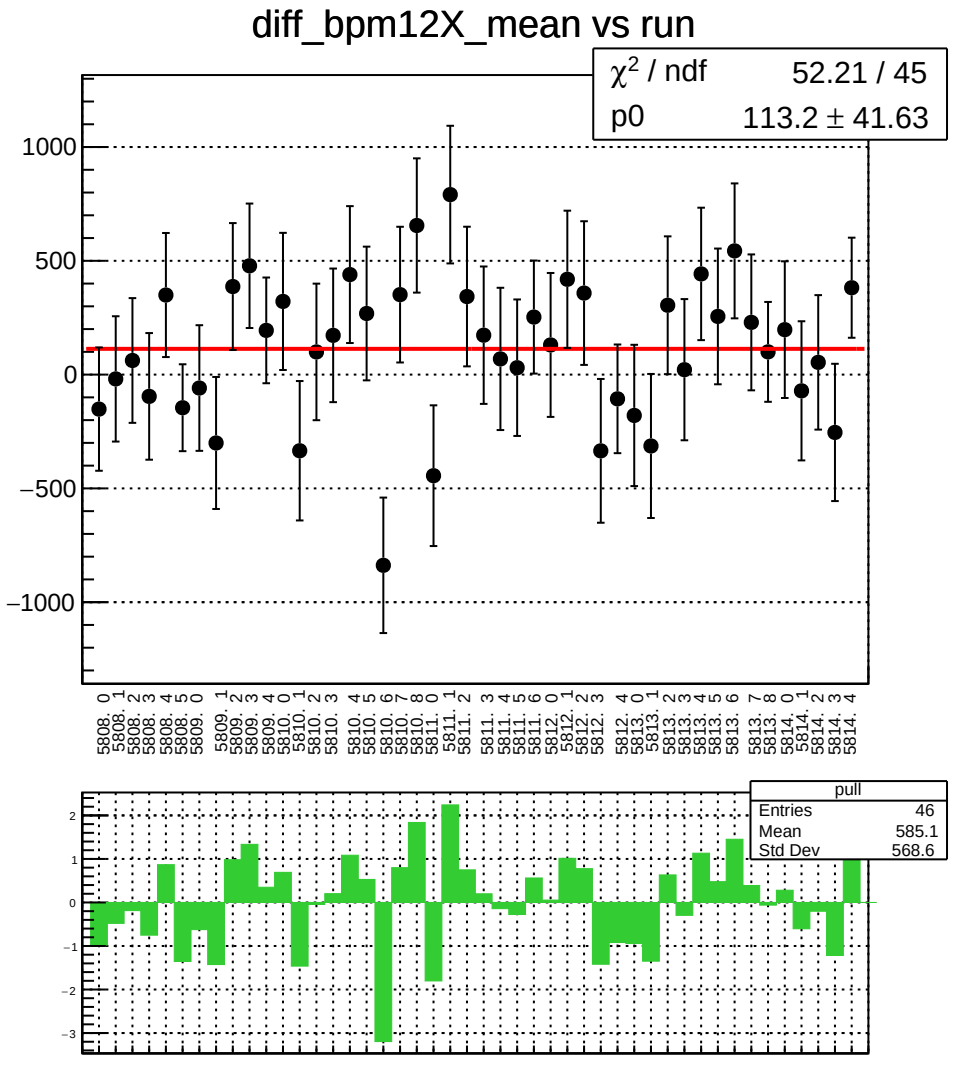

pull1D
Entries 46
Mean 0.0008904
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

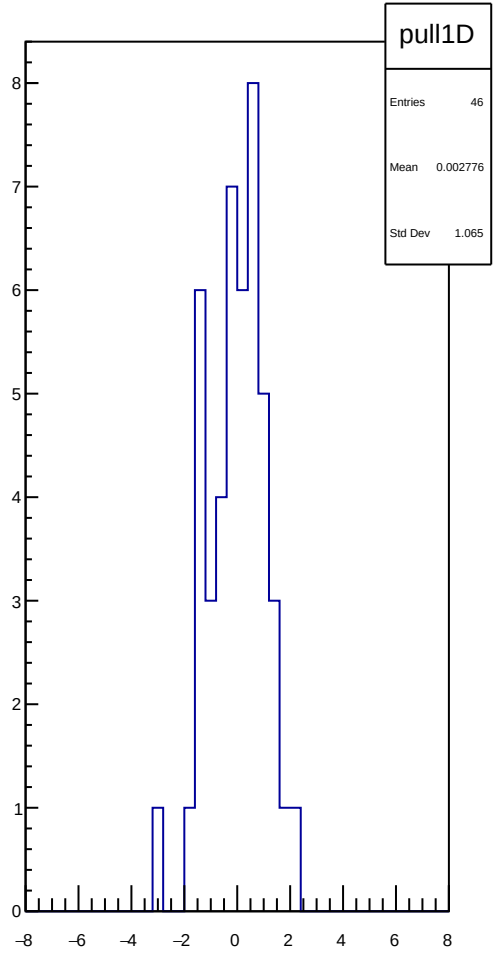

diff_bpm11X_rms vs run
χ² / ndf 1805 / 45
p0 1.09e+04 ± 11.46
11600
11400
11200
11000
10800
10600
10400
10200
10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

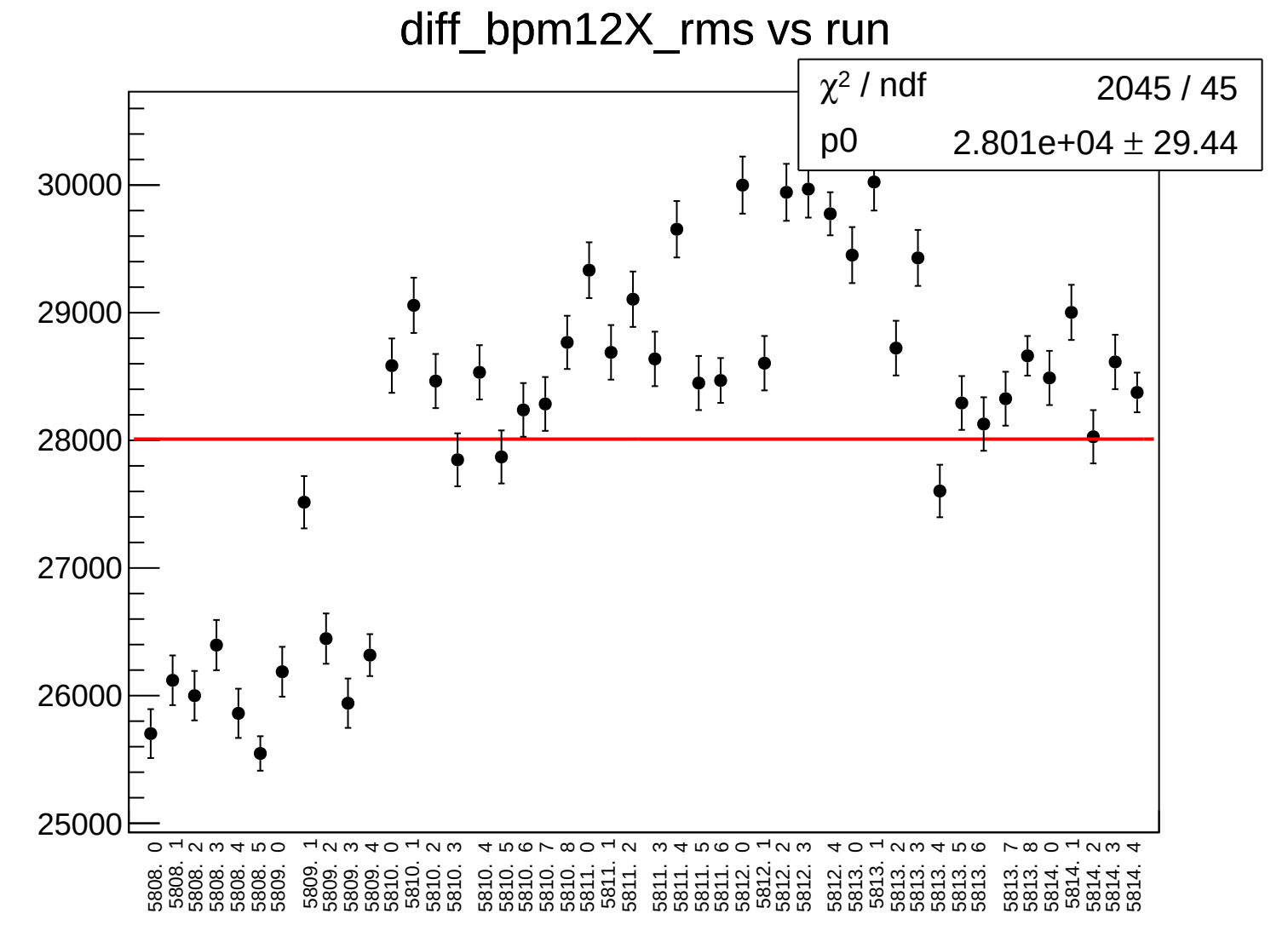

diff_bpm11Y_mean vs run
χ^2 / ndf 42.28 / 45
p0 12.82 ± 15.25
pull
Entries 46
Mean −6153
Std Dev 6175

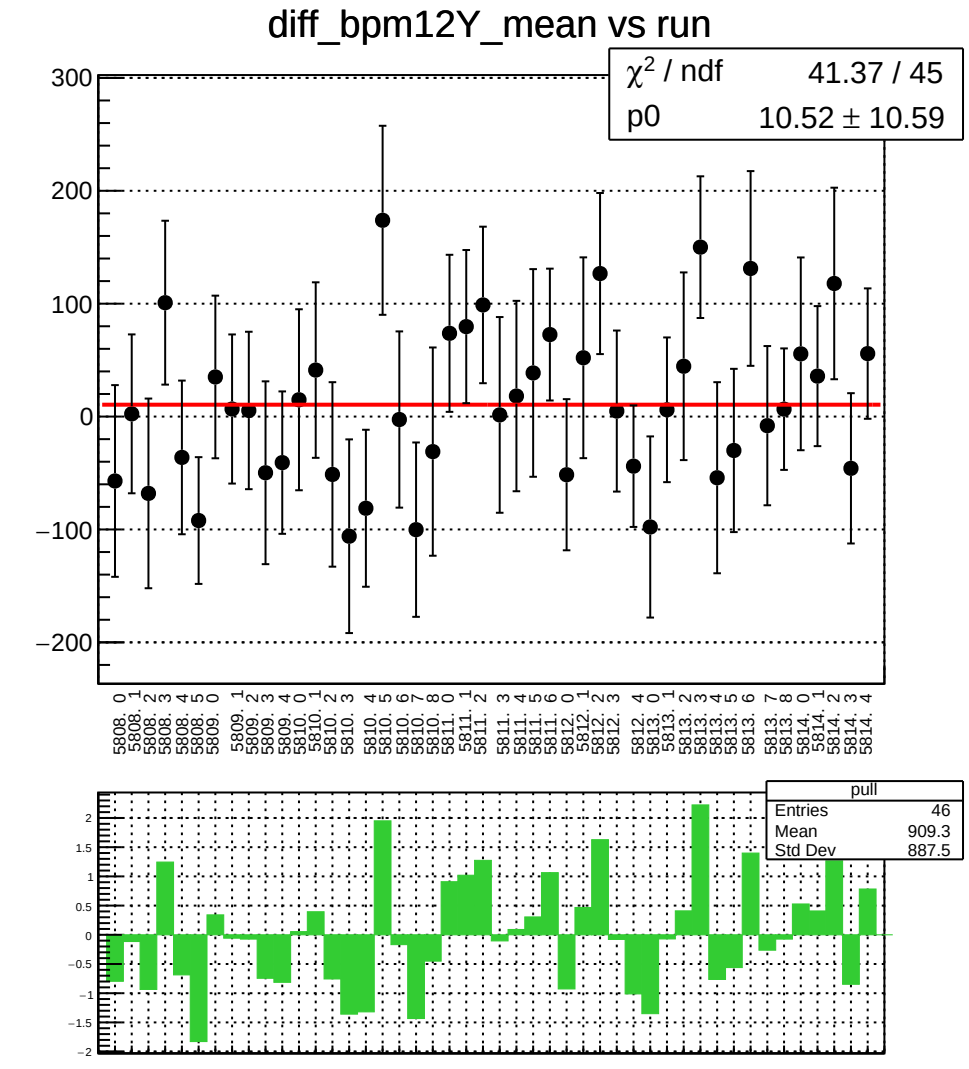

pull1D
Entries 46
Mean −0.0004485
Std Dev 0.9587

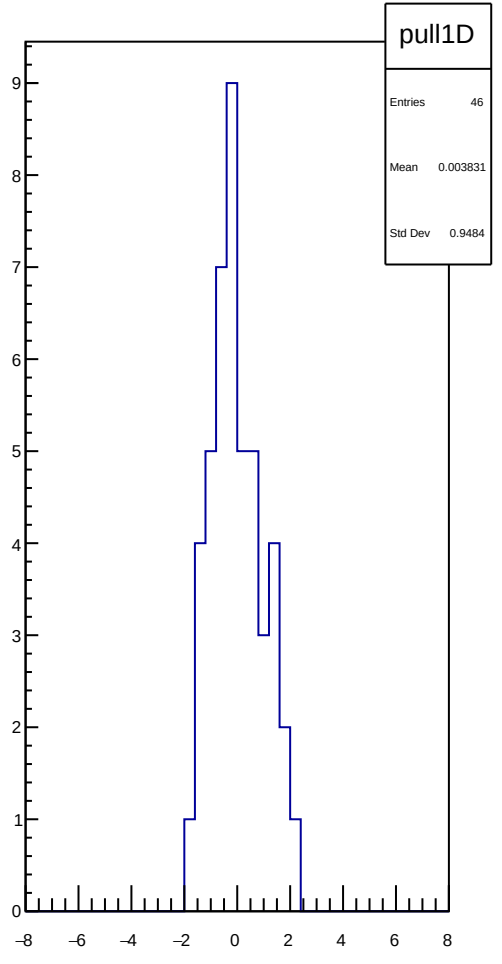

diff_bpm11Y_rms vs run
χ² / ndf 1.086e+04 / 45
p0 1.021e+04 ± 10.78
13000
12000
11000
10000
9000
8000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

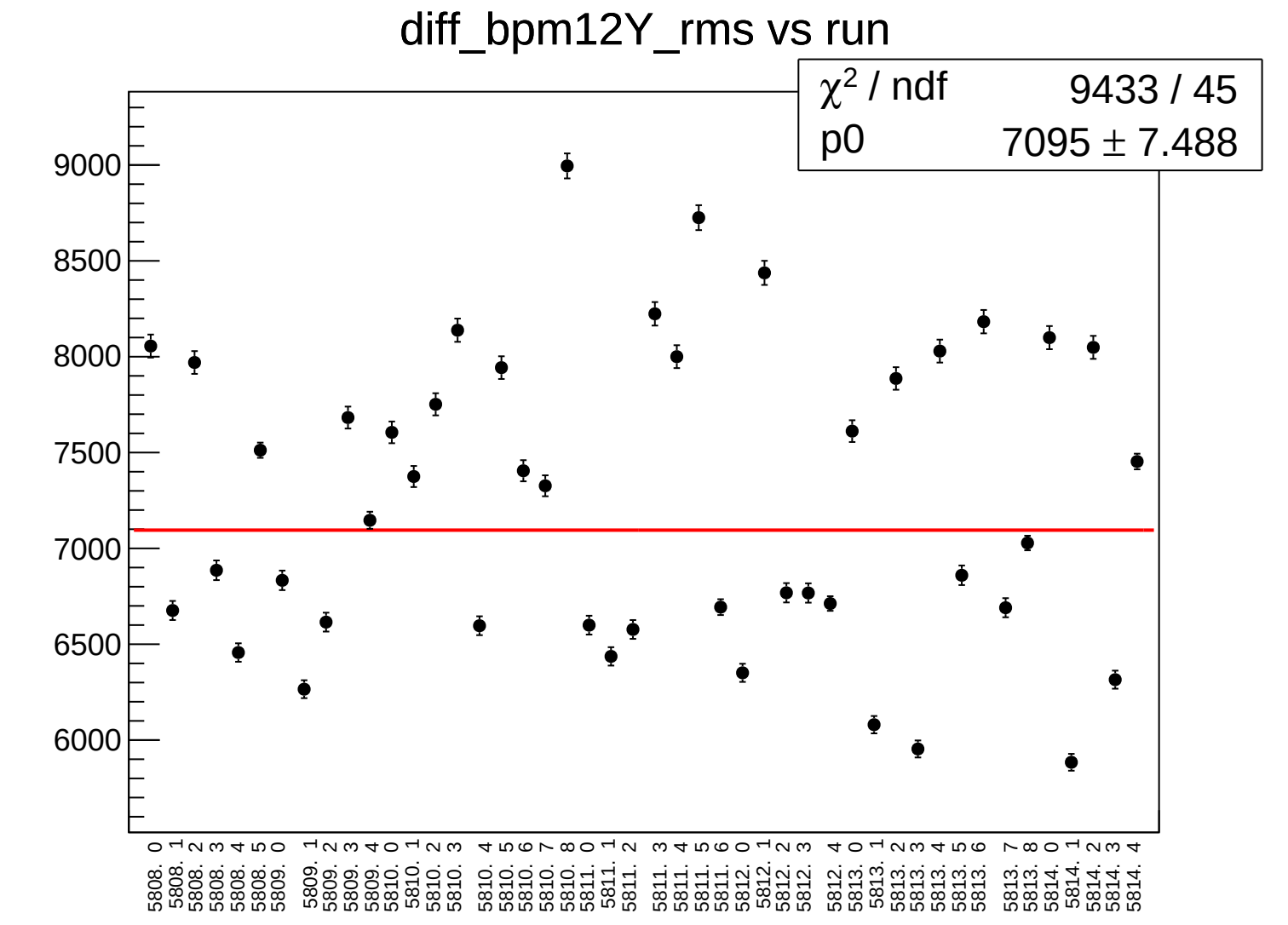

diff_bpm12X_mean vs run
χ² / ndf 52.21 / 45
p0 113.2 ± 41.63
1000
500
0
−500
−1000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 585.1
Std Dev 568.6
2
1
0
−1
−2
−3

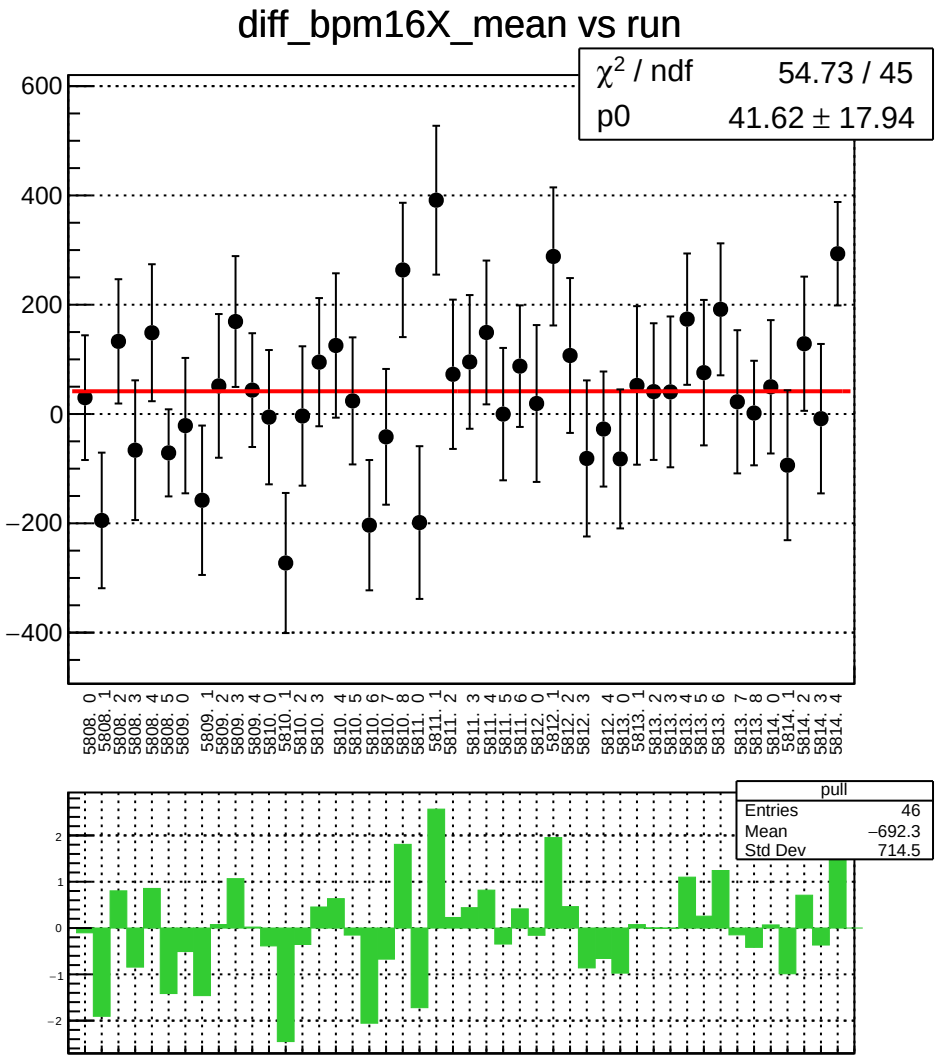

pull1D
Entries 46
Mean 0.002776
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

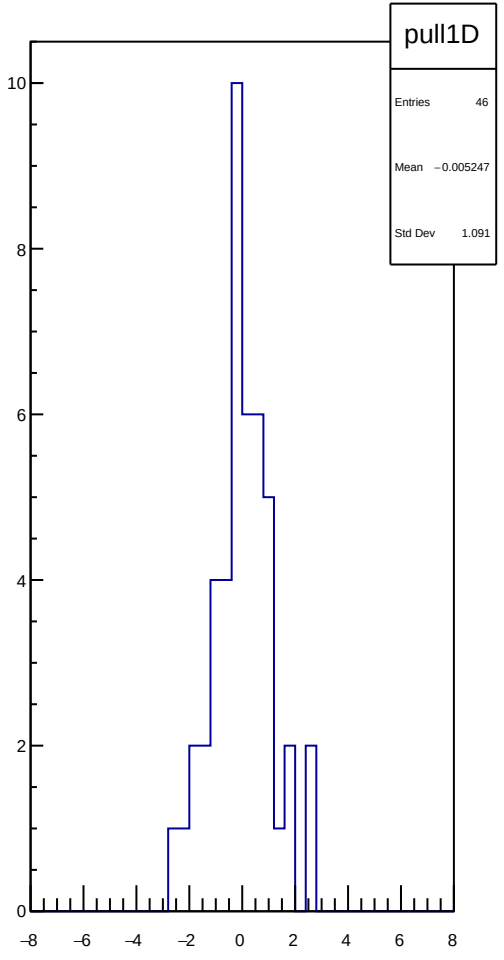

diff_bpm12X_rms vs run
χ² / ndf 2045 / 45
p0 2.801e+04 ± 29.44
30000
29000
28000
27000
26000
25000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

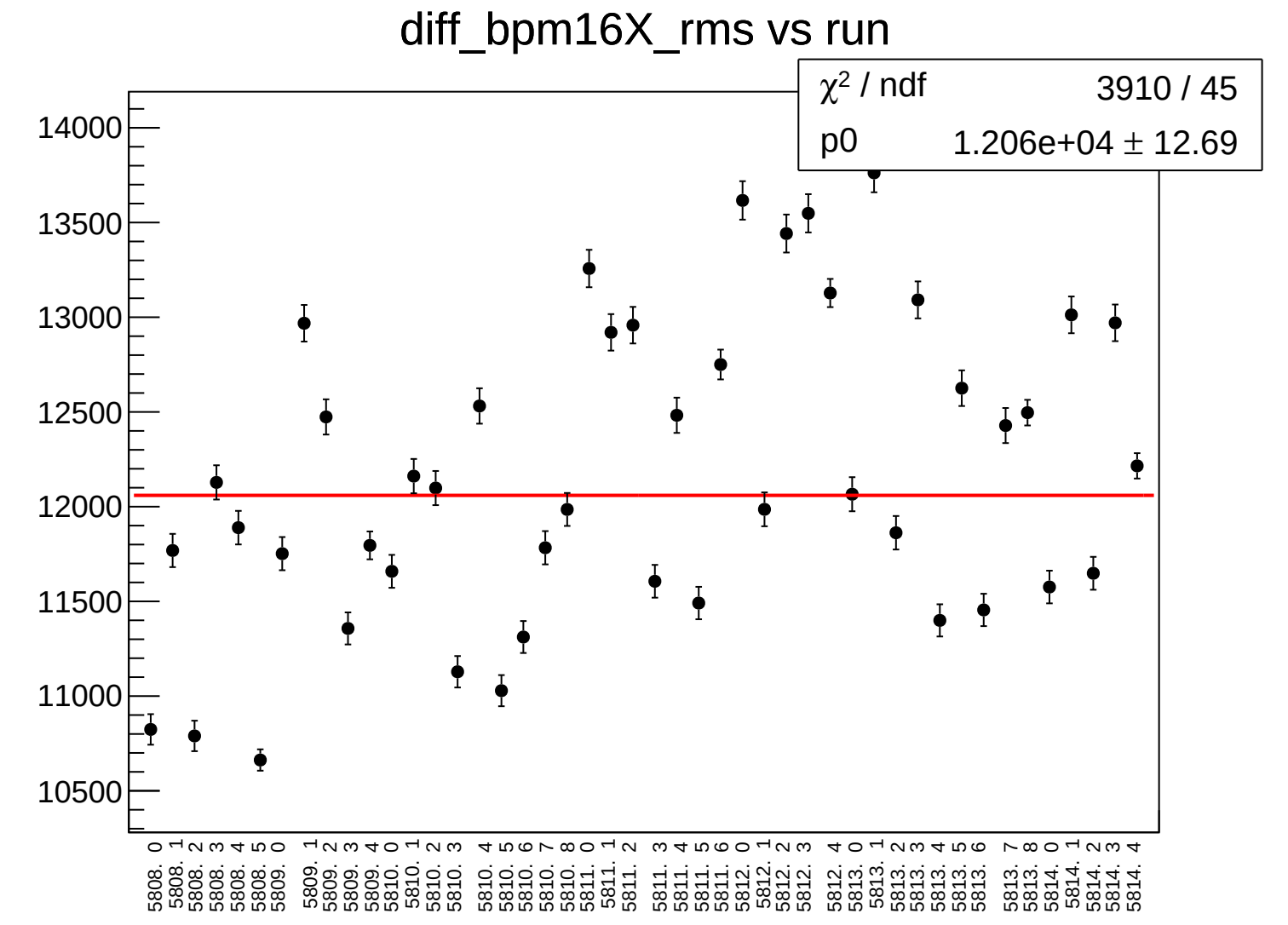

diff_bpm12Y_mean vs run
χ^2 / ndf 41.37 / 45
p0 10.52 ± 10.59
pull
Entries 46
Mean 909.3
Std Dev 887.5

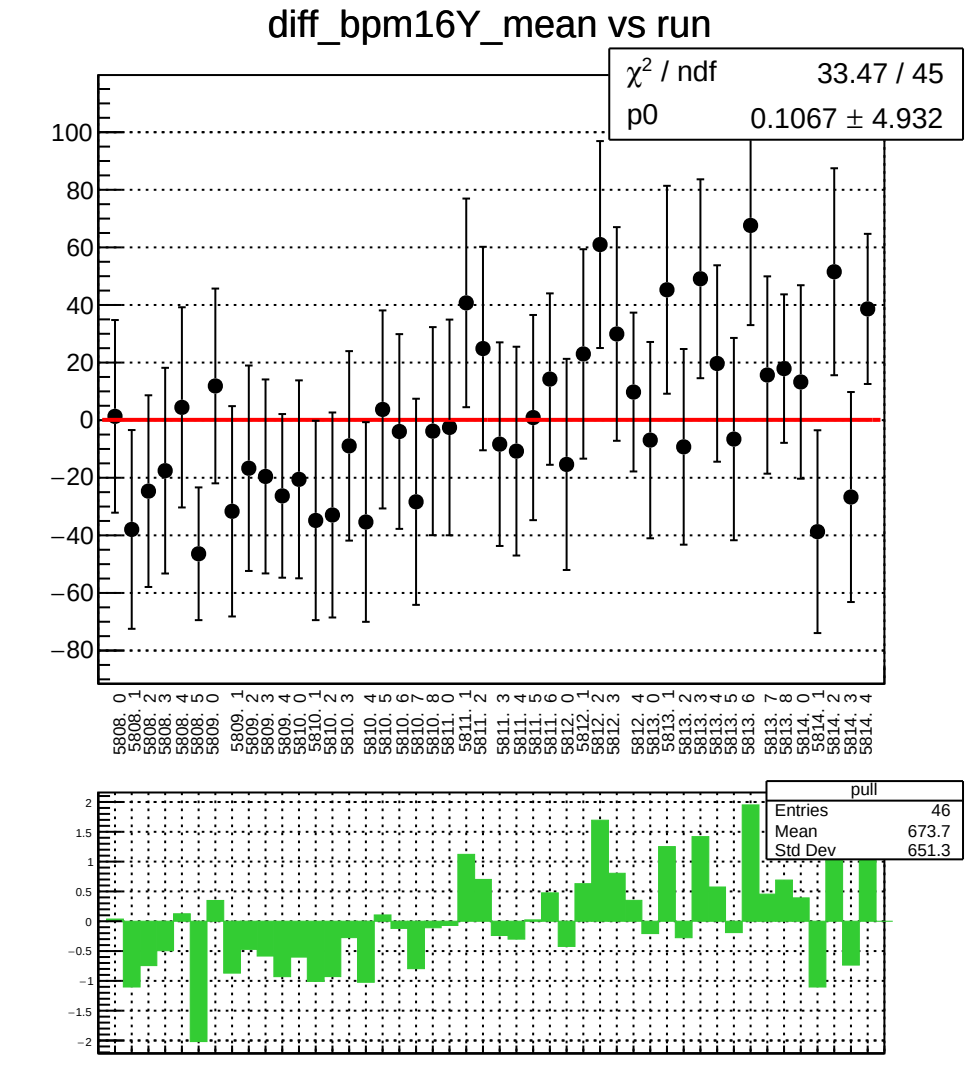

pull1D
Entries 46
Mean 0.003831
Std Dev 0.9484

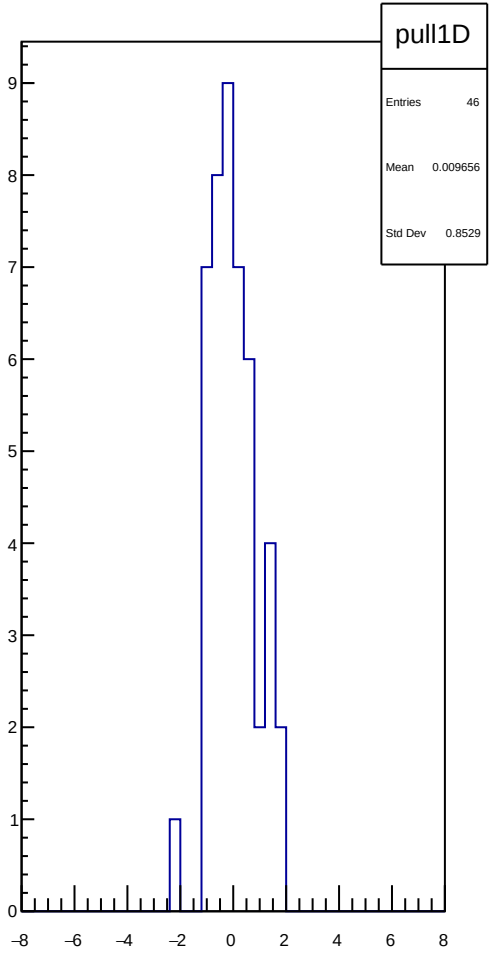

diff_bpm12Y_rms vs run
χ² / ndf 9433 / 45
p0 7095 ± 7.488
9000
8500
8000
7500
7000
6500
6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

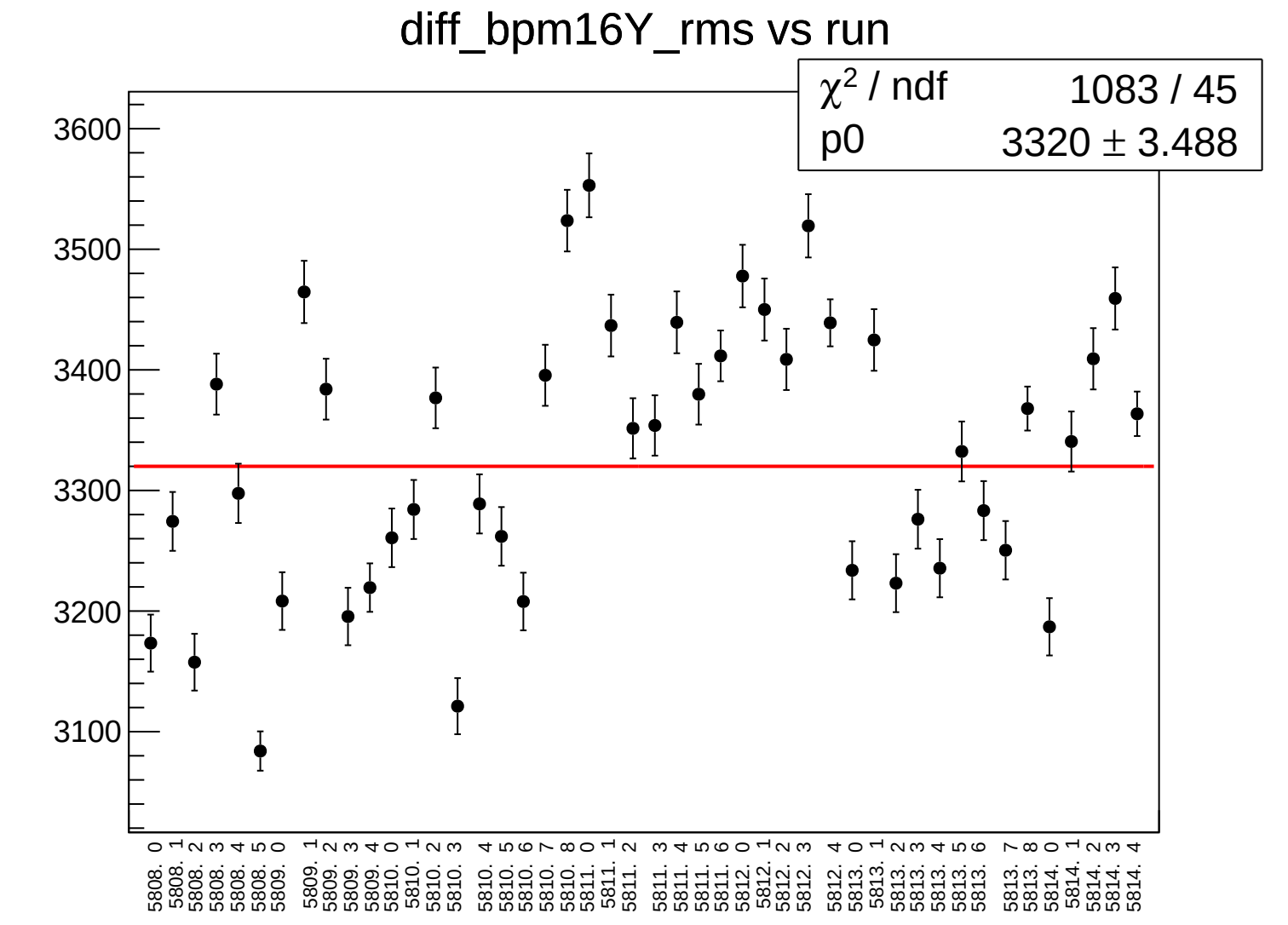

diff_bpm16X_mean vs run
χ^2 / ndf 54.73 / 45
p0 41.62 ± 17.94
600
400
200
0
−200
−400
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −692.3
Std Dev 714.5
2
1
0
−1
−2

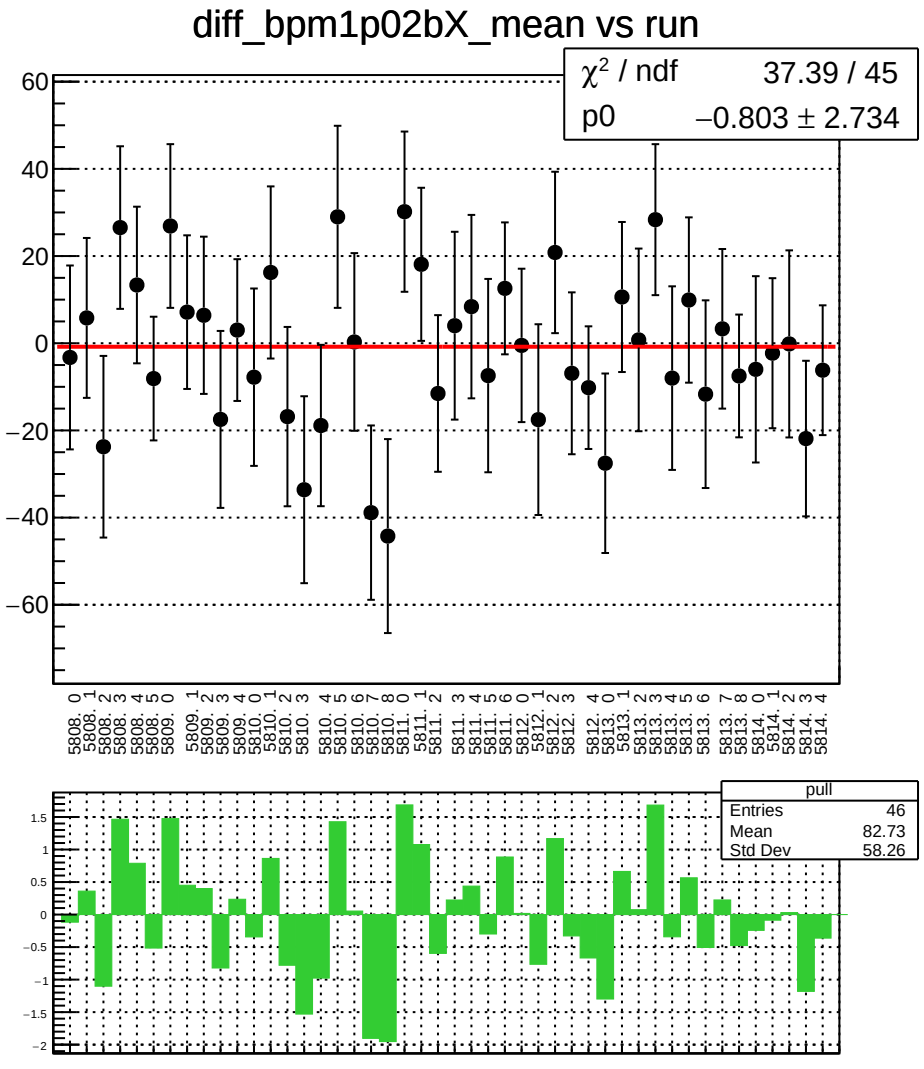

pull1D
Entries 46
Mean −0.005247
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

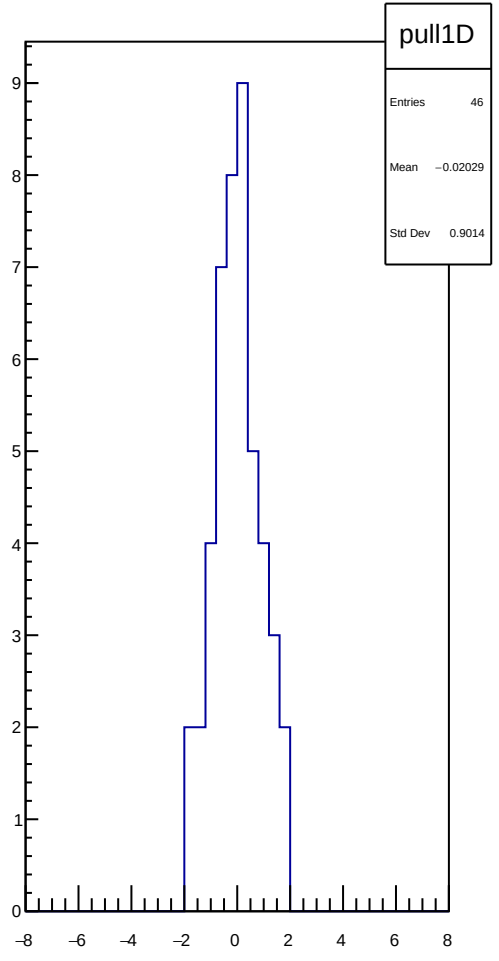

diff_bpm16X_rms vs run
χ² / ndf 3910 / 45
p0 1.206e+04 ± 12.69
14000
13500
13000
12500
12000
11500
11000
10500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

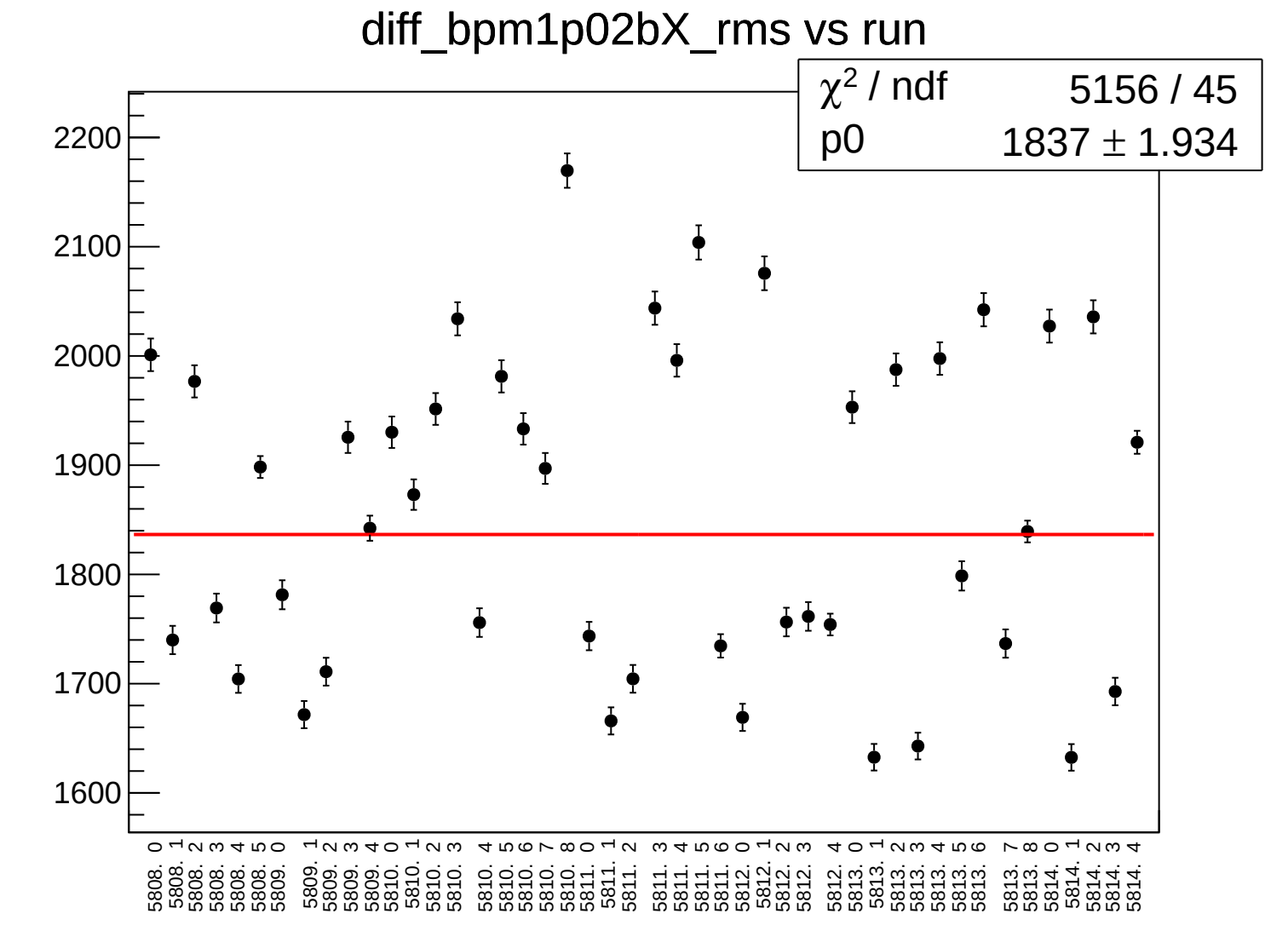

diff_bpm16Y_mean vs run
χ² / ndf 33.47 / 45
p0 0.1067 ± 4.932
pull
Entries 46
Mean 673.7
Std Dev 651.3

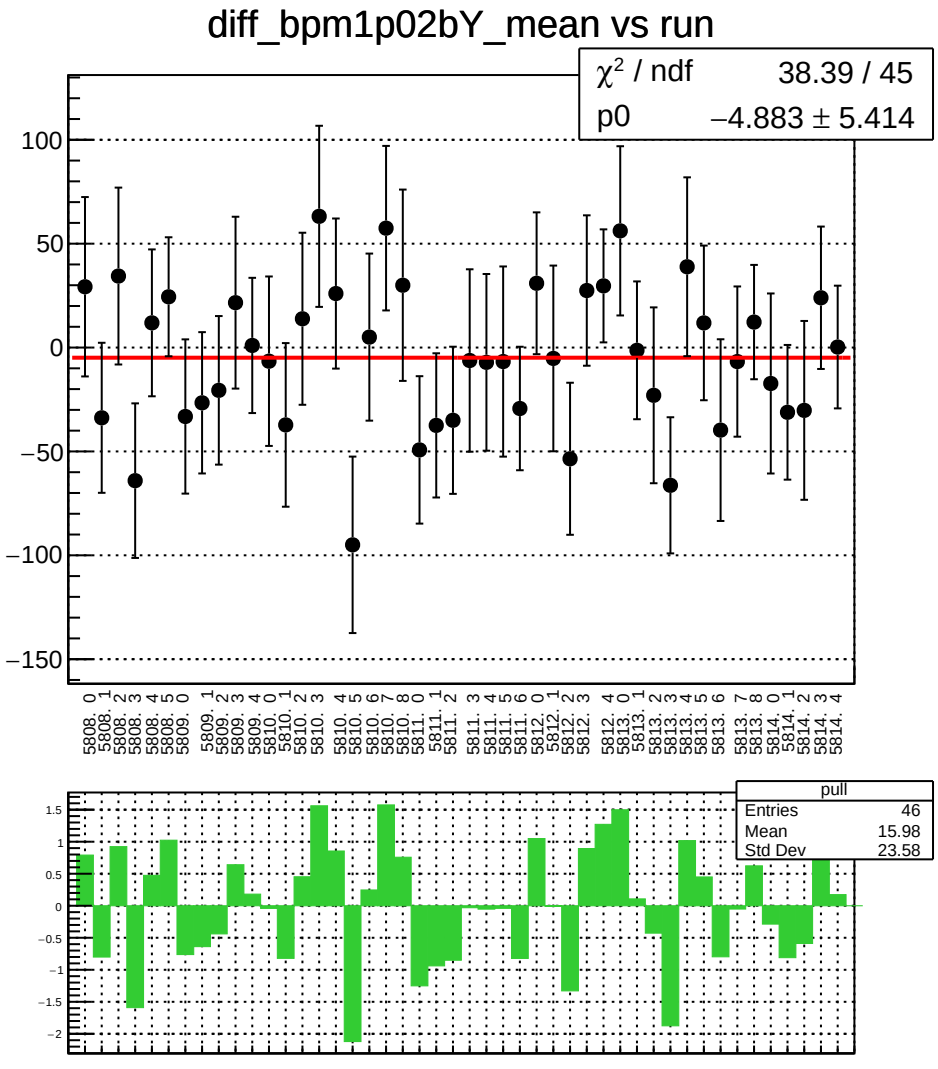

pull1D
Entries 46
Mean 0.009656
Std Dev 0.8529

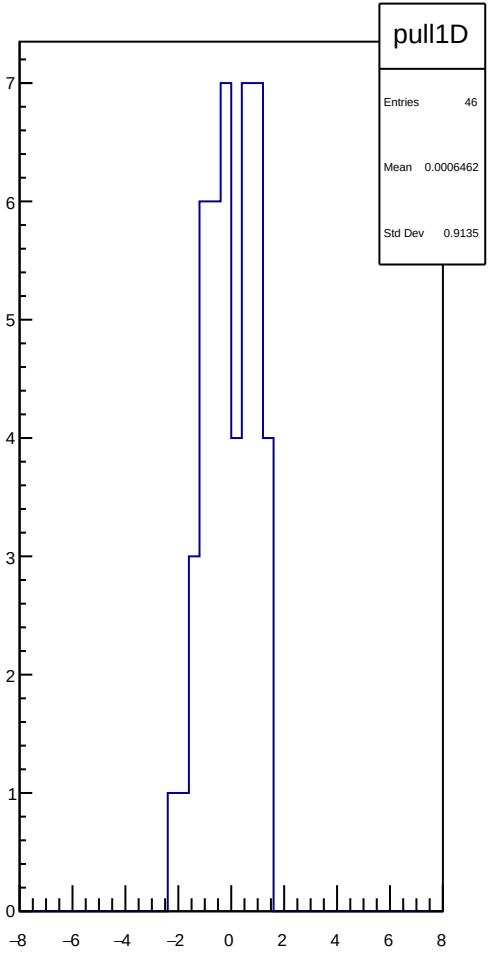

diff_bpm16Y_rms vs run
χ² / ndf 1083 / 45
p0 3320 ± 3.488
3600
3500
3400
3300
3200
3100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

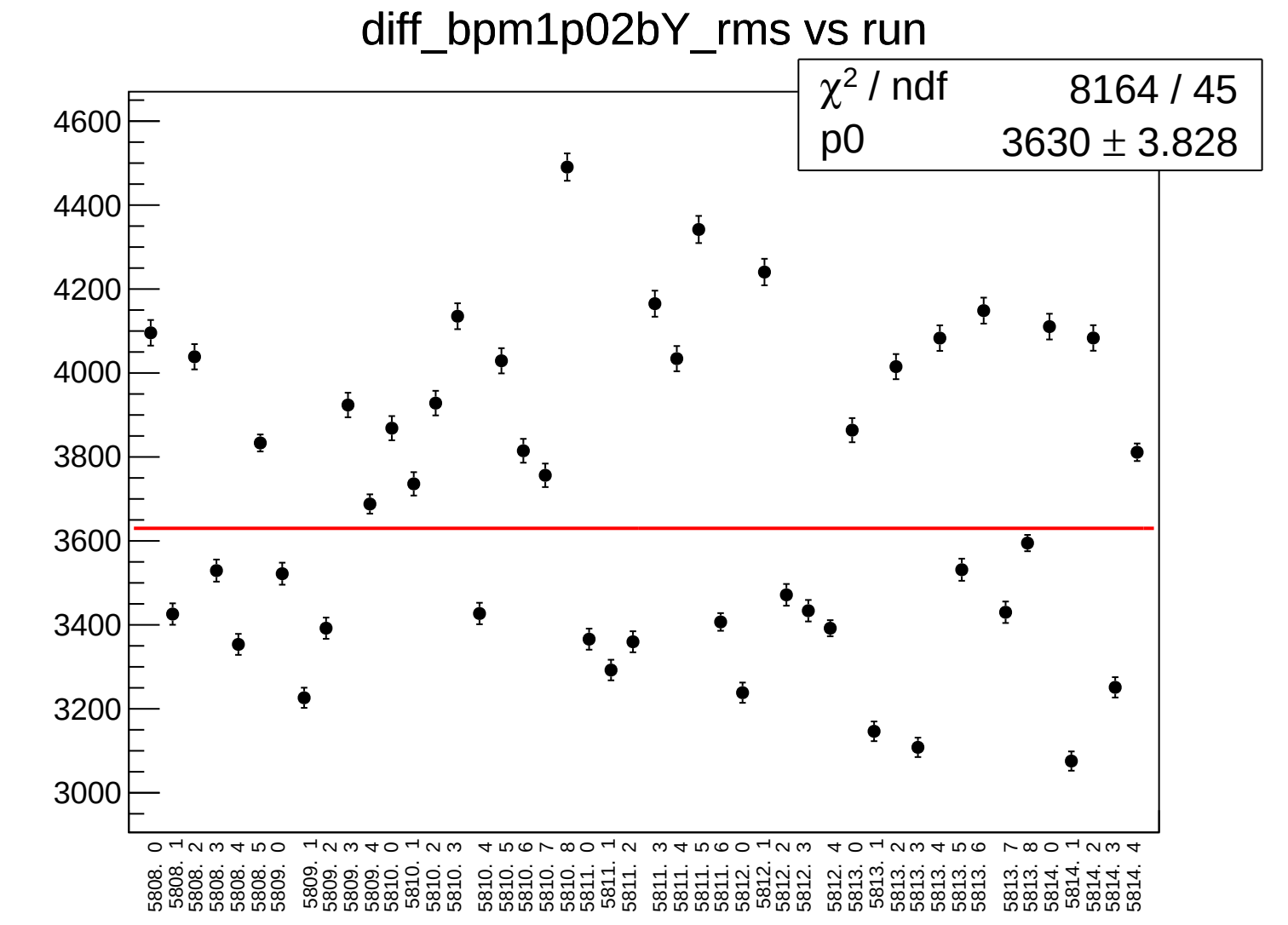

diff_bpm1p02bX_mean vs run
χ² / ndf 37.39 / 45
p0 −0.803 ± 2.734
pull
Entries 46
Mean 82.73
Std Dev 58.26

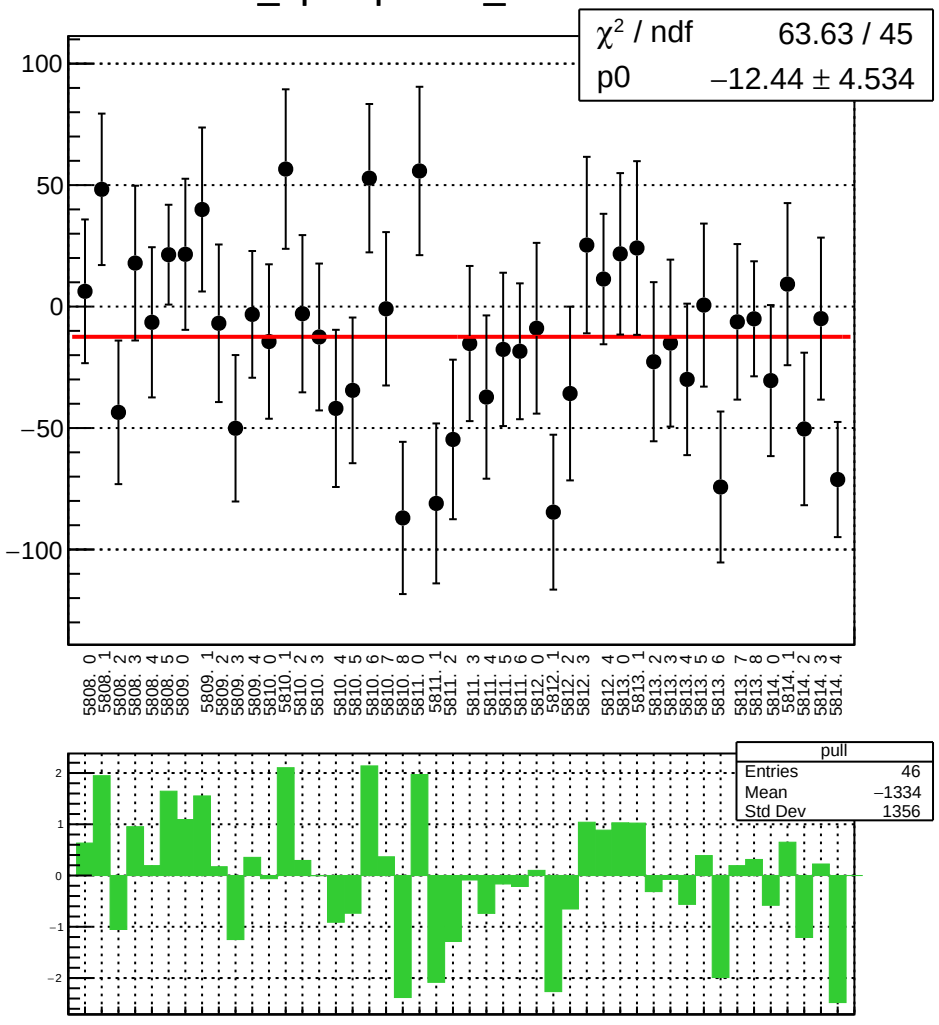

pull1D
Entries 46
Mean −0.02029
Std Dev 0.9014

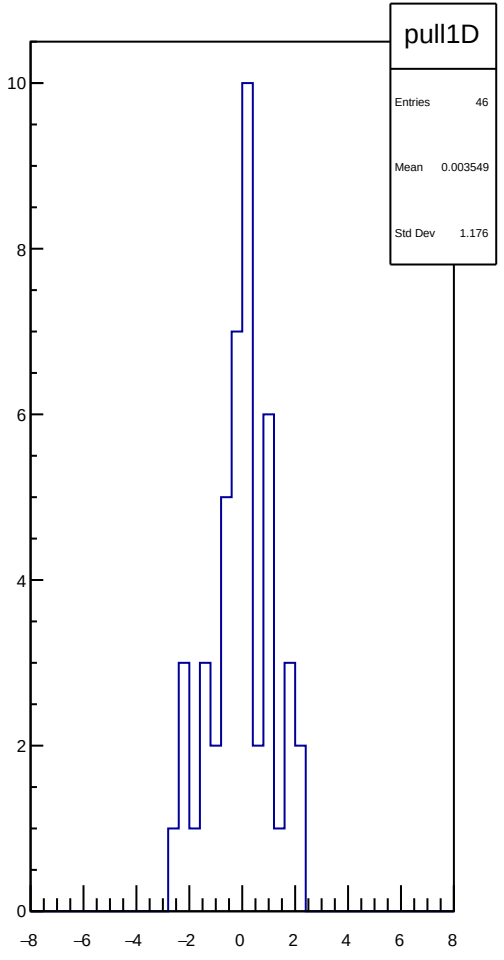

diff_bpm1p02bX_rms vs run
χ² / ndf 5156 / 45
p0 1837 ± 1.934
2200
2100
2000
1900
1800
1700
1600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

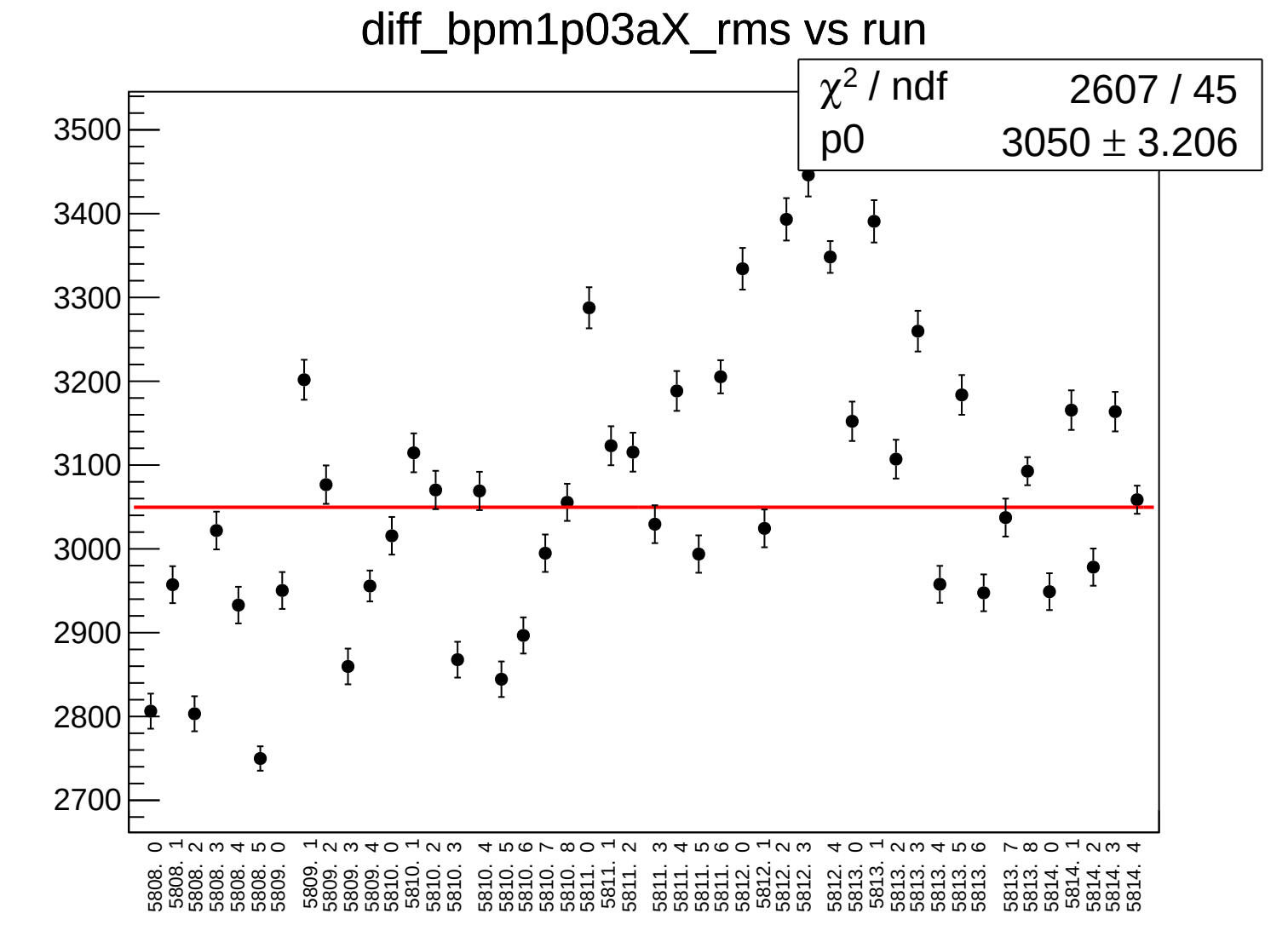

diff_bpm1p02bY_mean vs run
χ² / ndf 38.39 / 45
p0 −4.883 ± 5.414
100
50
0
−50
−100
−150
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 15.98
Std Dev 23.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

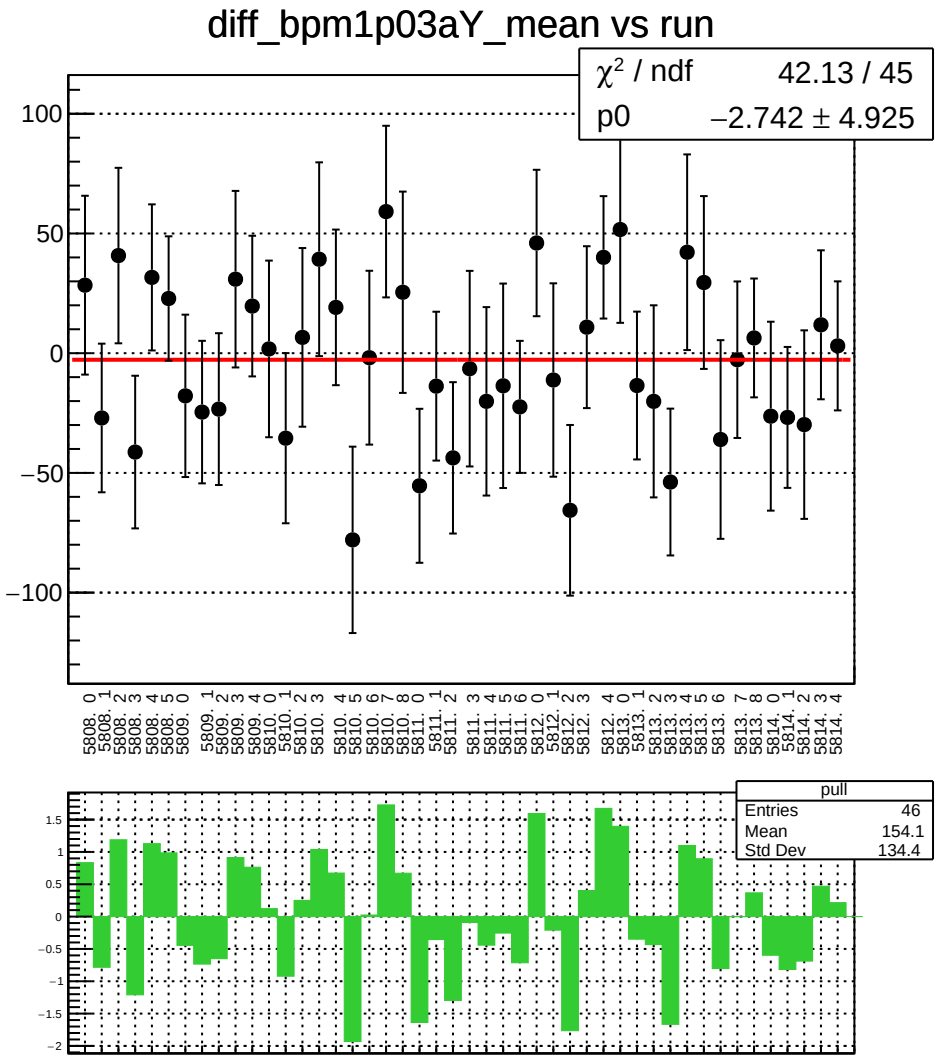

pull1D
Entries 46
Mean 0.0006462
Std Dev 0.9135
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

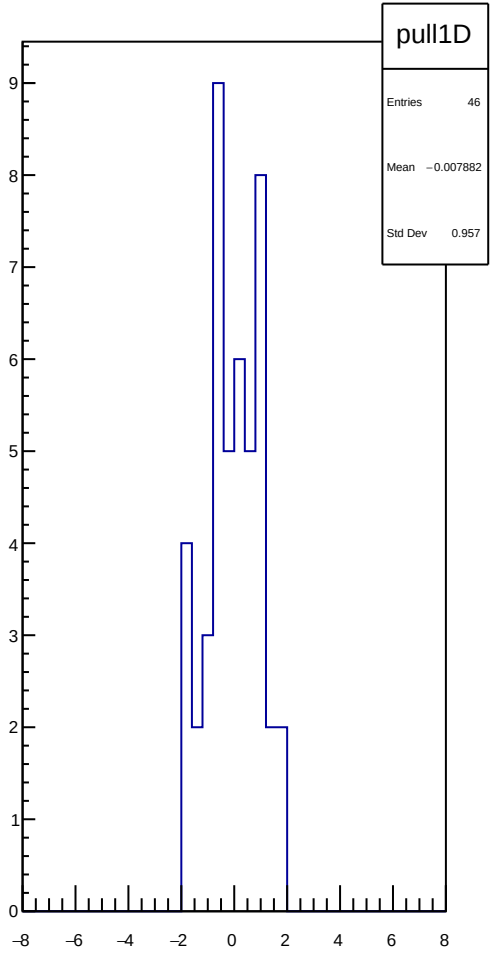

diff_bpm1p02bY_rms vs run
χ² / ndf 8164 / 45
p0 3630 ± 3.828
4600
4400
4200
4000
3800
3600
3400
3200
3000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

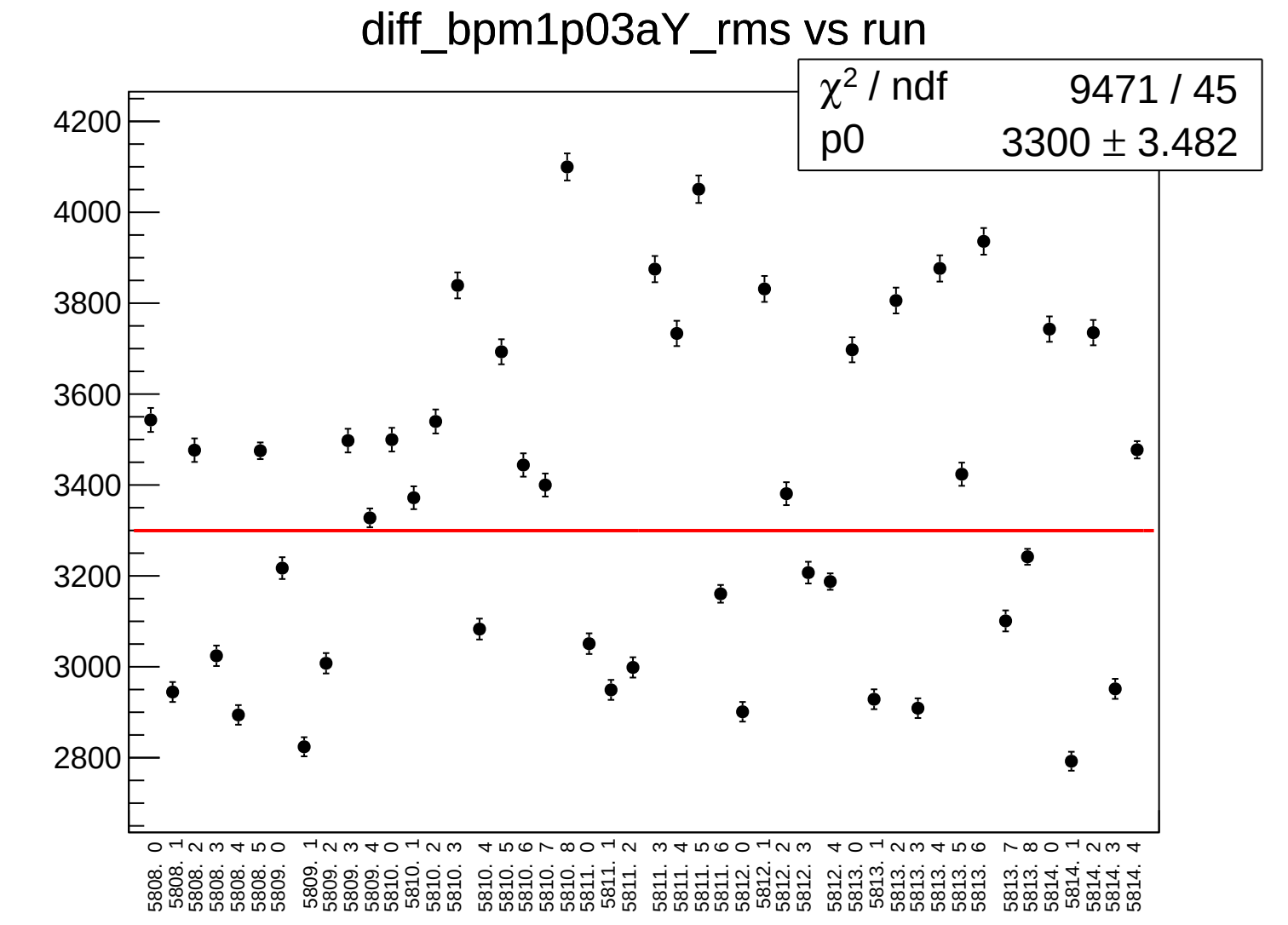

diff_bpm1p03aX_mean vs run
χ² / ndf 63.63 / 45
p0 −12.44 ± 4.534
100
50
0
−50
−100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1334
Std Dev 1356
2
1
0
−1
−2

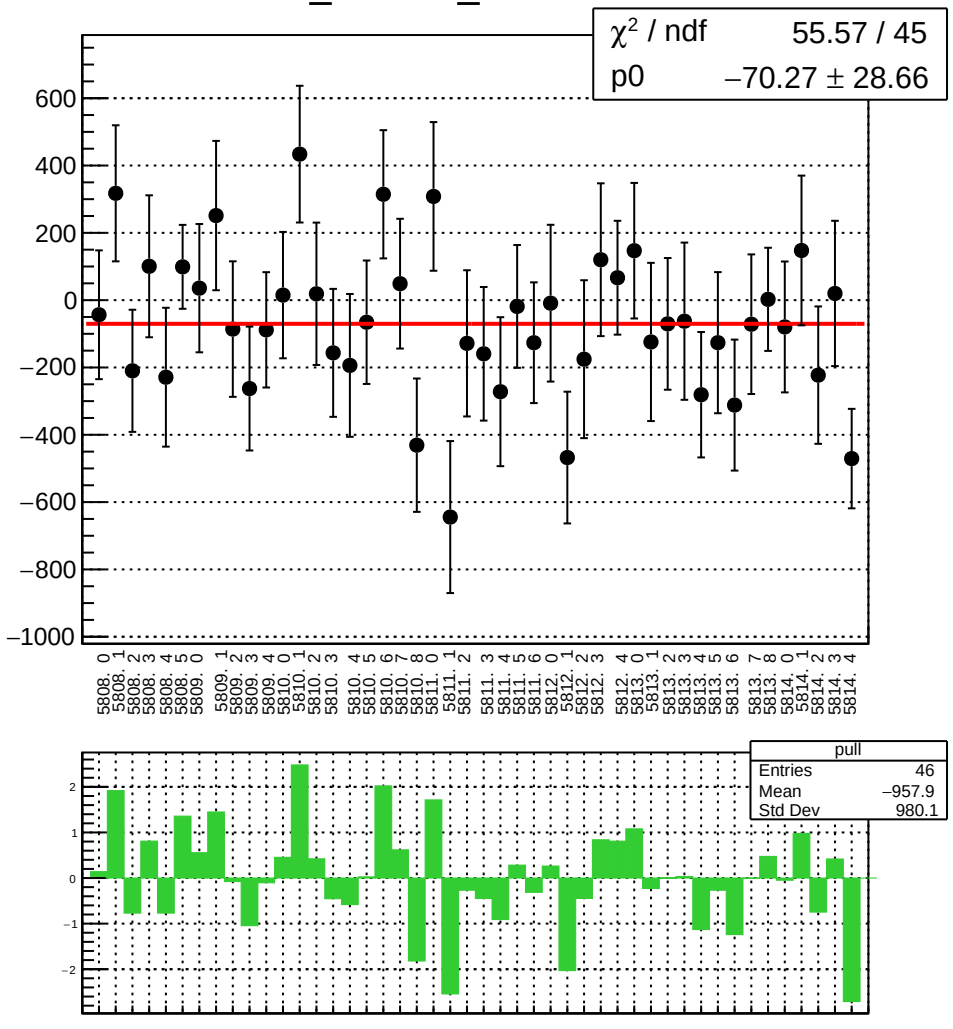

pull1D
Entries 46
Mean 0.003549
Std Dev 1.176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

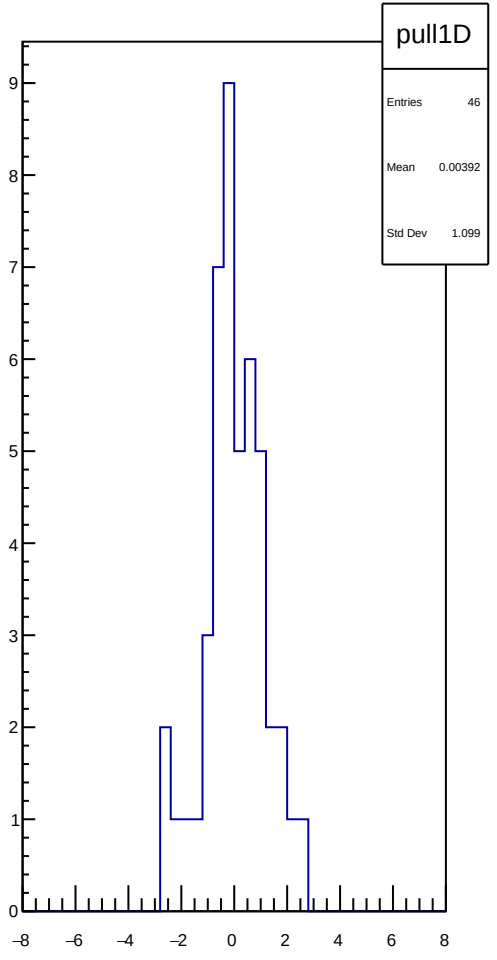

diff_bpm1p03aX_rms vs run
χ² / ndf 2607 / 45
p0 3050 ± 3.206
3500
3400
3300
3200
3100
3000
2900
2800
2700
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

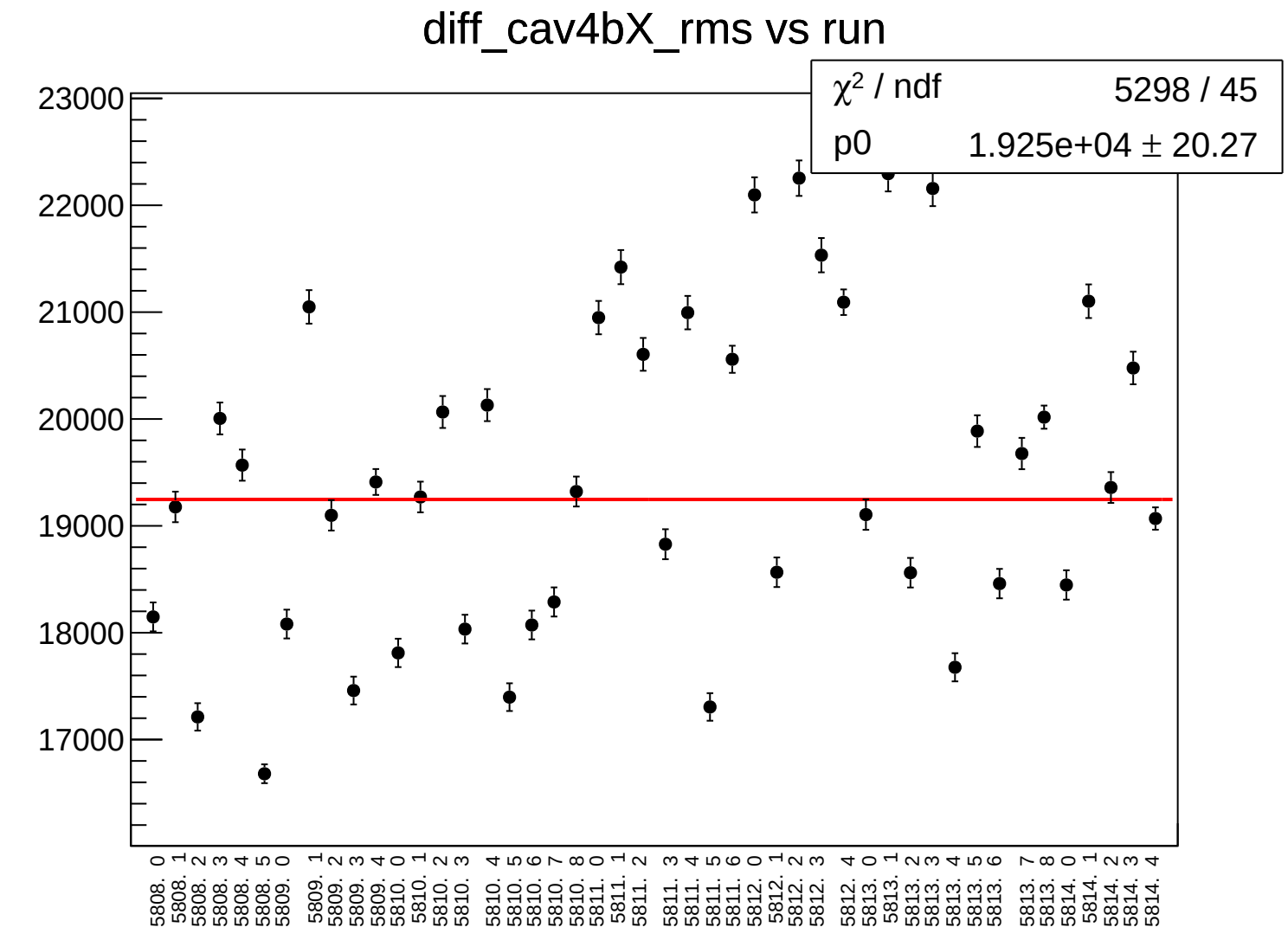

diff_bpm1p03aY_mean vs run
χ² / ndf 42.13 / 45
p0 −2.742 ± 4.925
100
50
0
−50
−100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 154.1
Std Dev 134.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

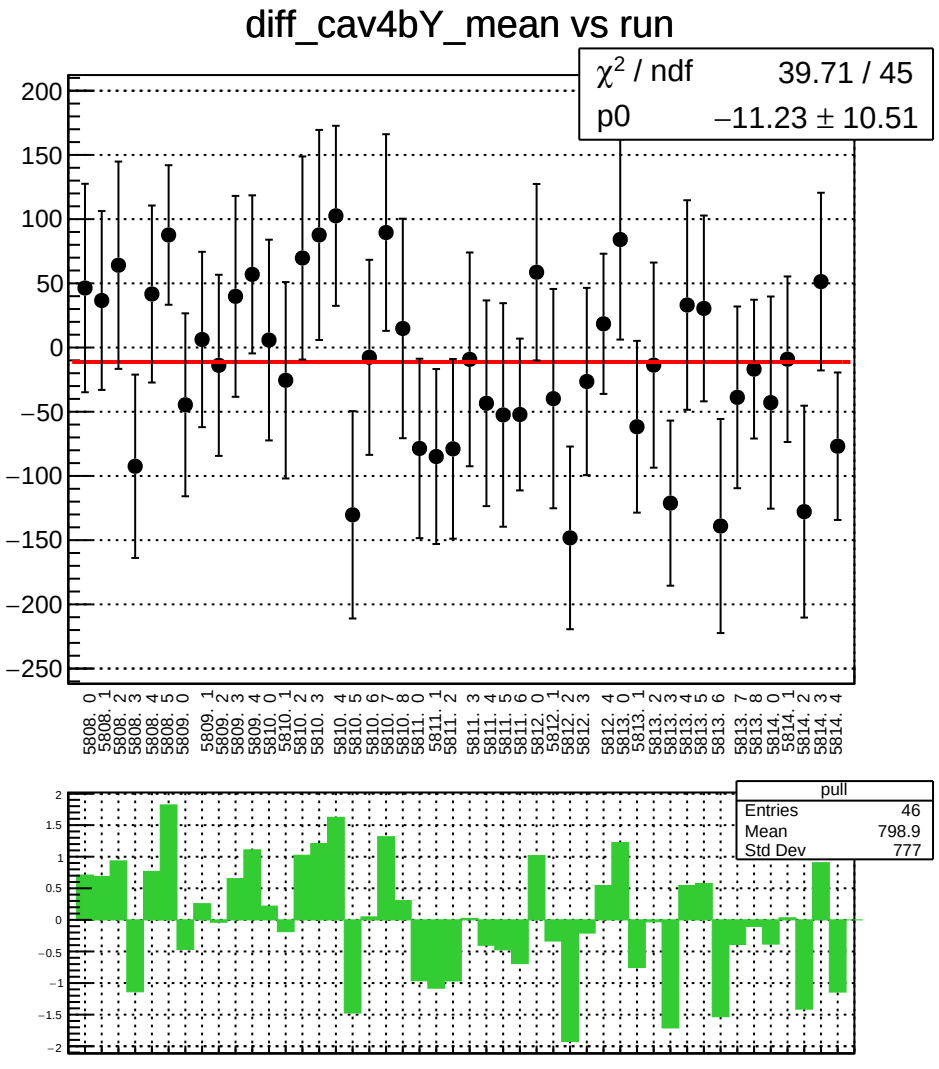

pull1D
Entries 46
Mean −0.007882
Std Dev 0.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

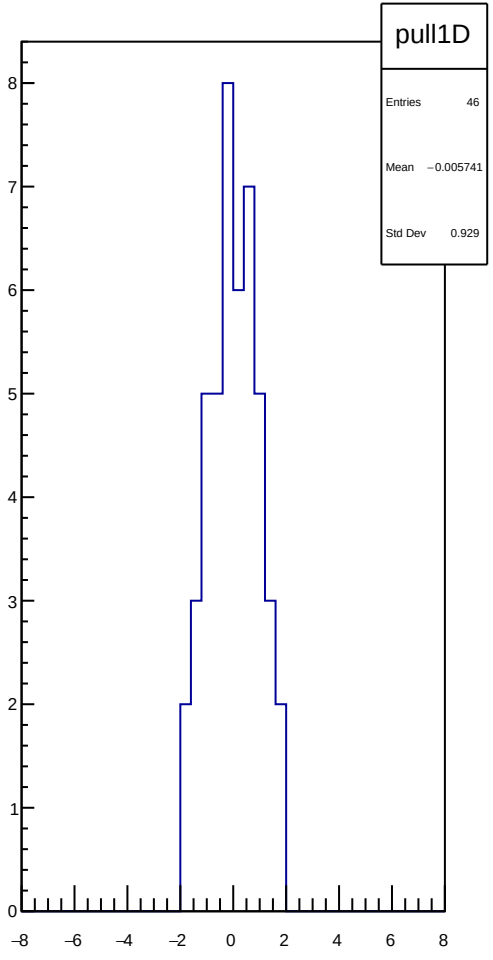

diff_bpm1p03aY_rms vs run
χ² / ndf 9471 / 45
p0 3300 ± 3.482
4200
4000
3800
3600
3400
3200
3000
2800
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

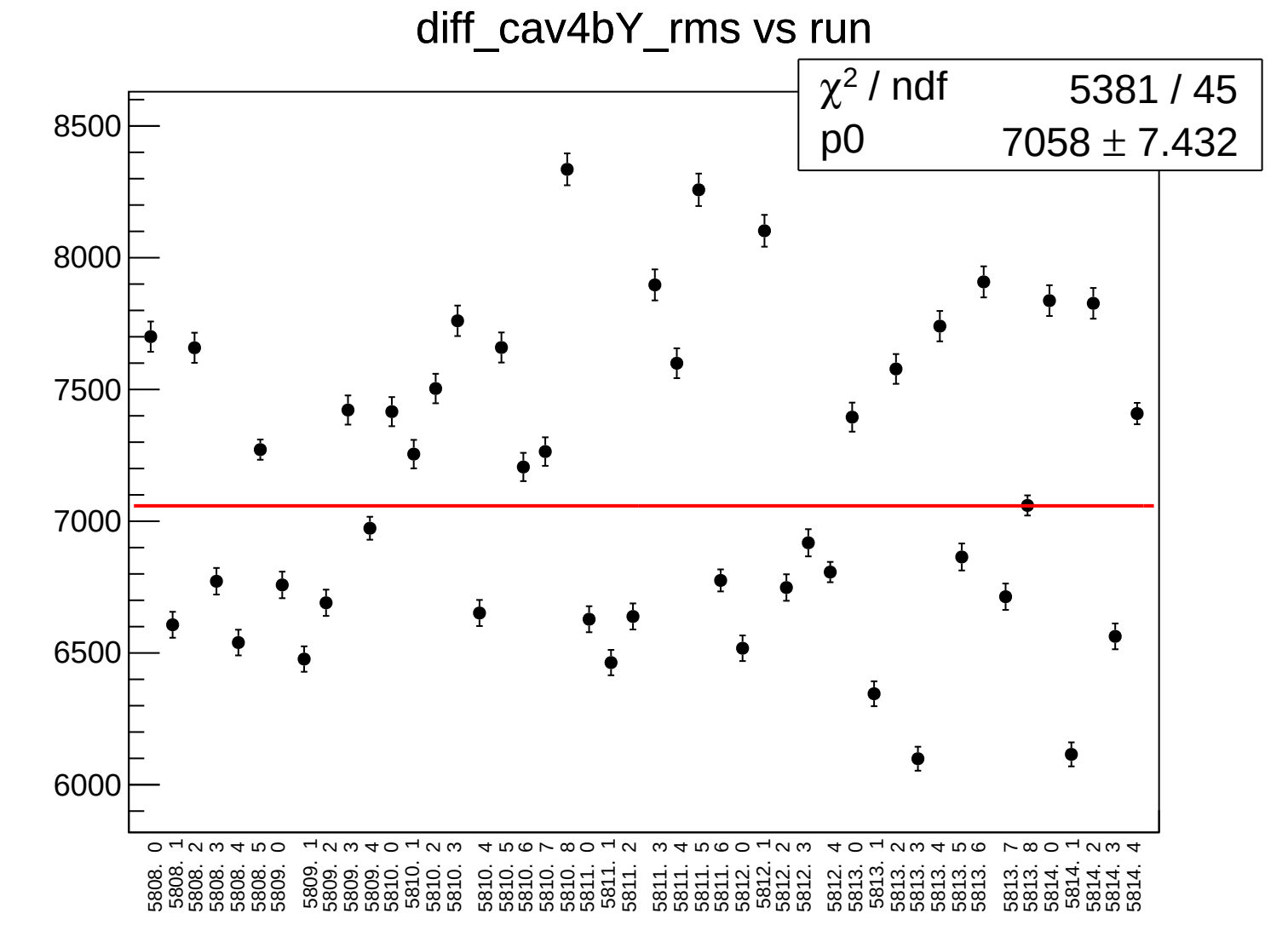

diff_cav4bX_mean vs run
χ² / ndf 55.57 / 45
p0 −70.27 ± 28.66
pull
Entries 46
Mean −957.9
Std Dev 980.1

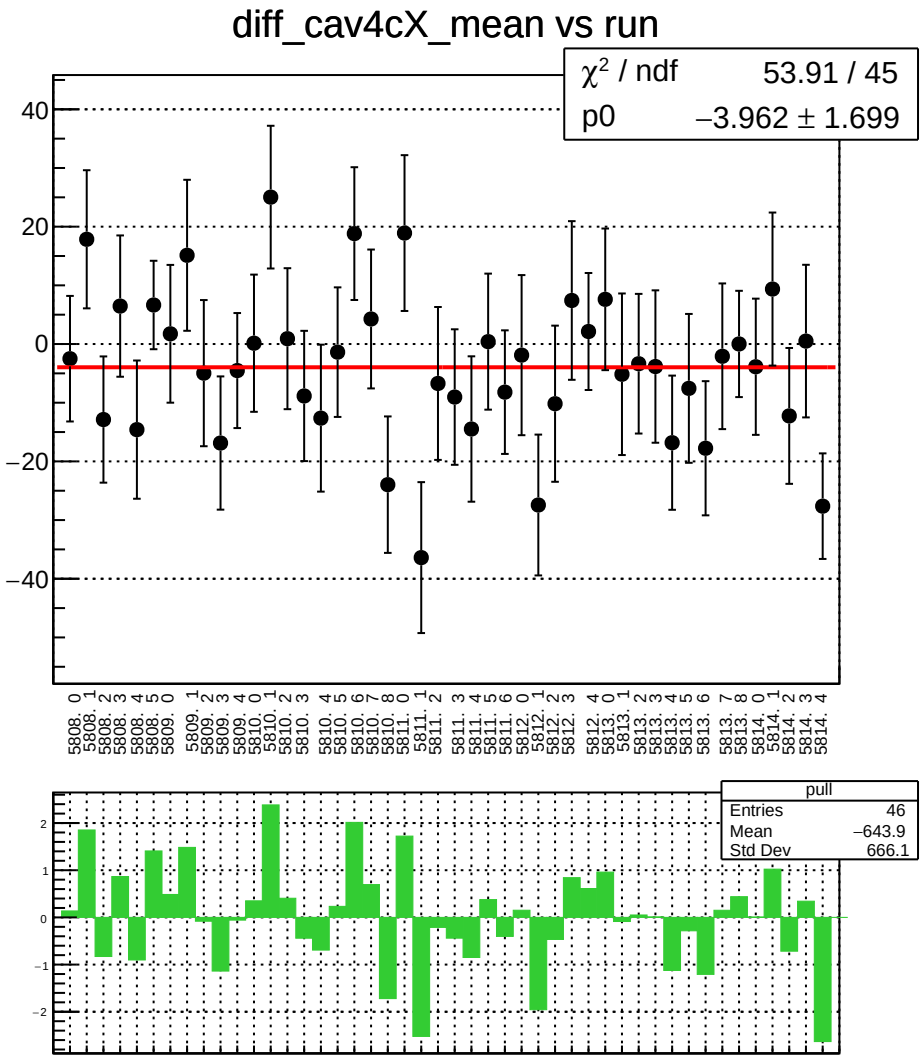

pull1D
Entries 46
Mean 0.00392
Std Dev 1.099

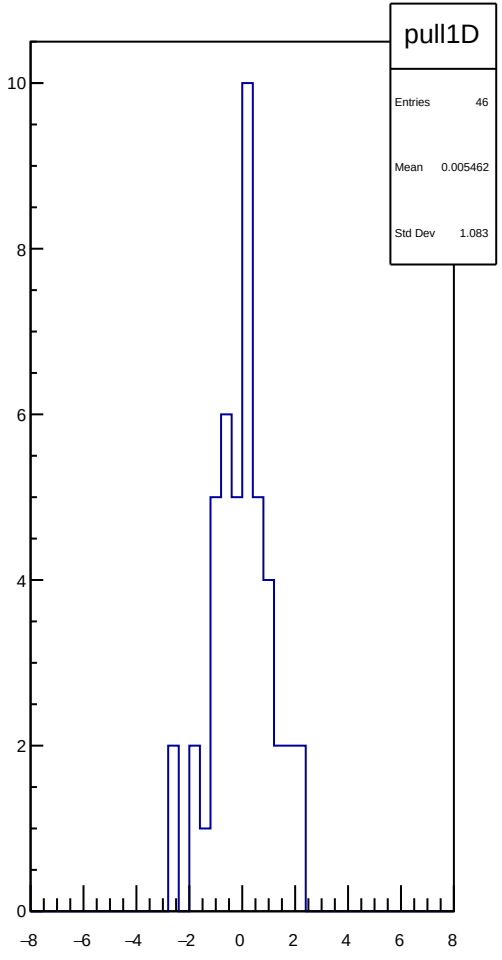

diff_cav4bX_rms vs run
χ² / ndf 5298 / 45
p0 1.925e+04 ± 20.27
23000
22000
21000
20000
19000
18000
17000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

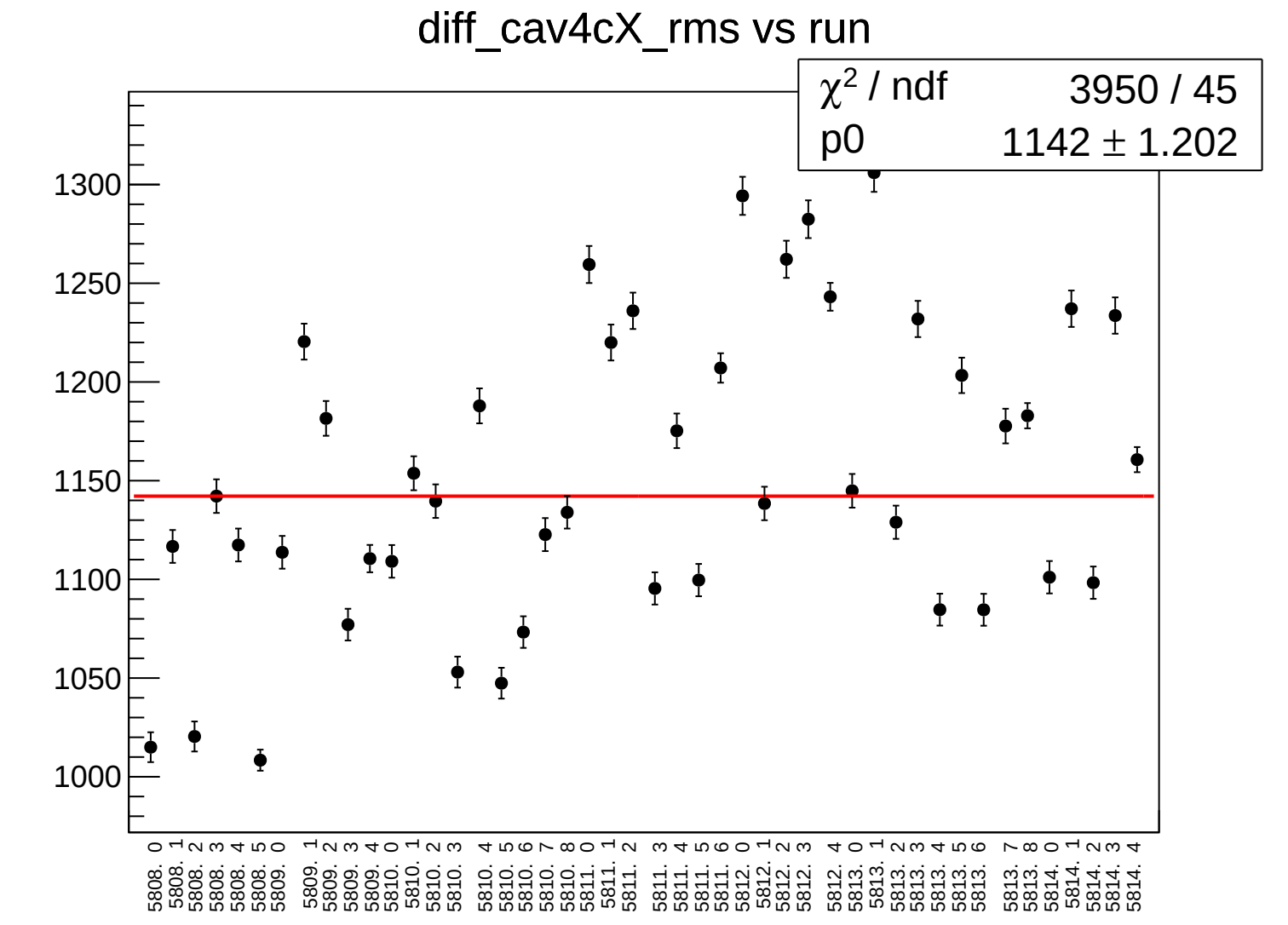

diff_cav4bY_mean vs run
χ² / ndf 39.71 / 45
p0 −11.23 ± 10.51
200
150
100
50
0
−50
−100
−150
−200
−250
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 798.9
Std Dev 777
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

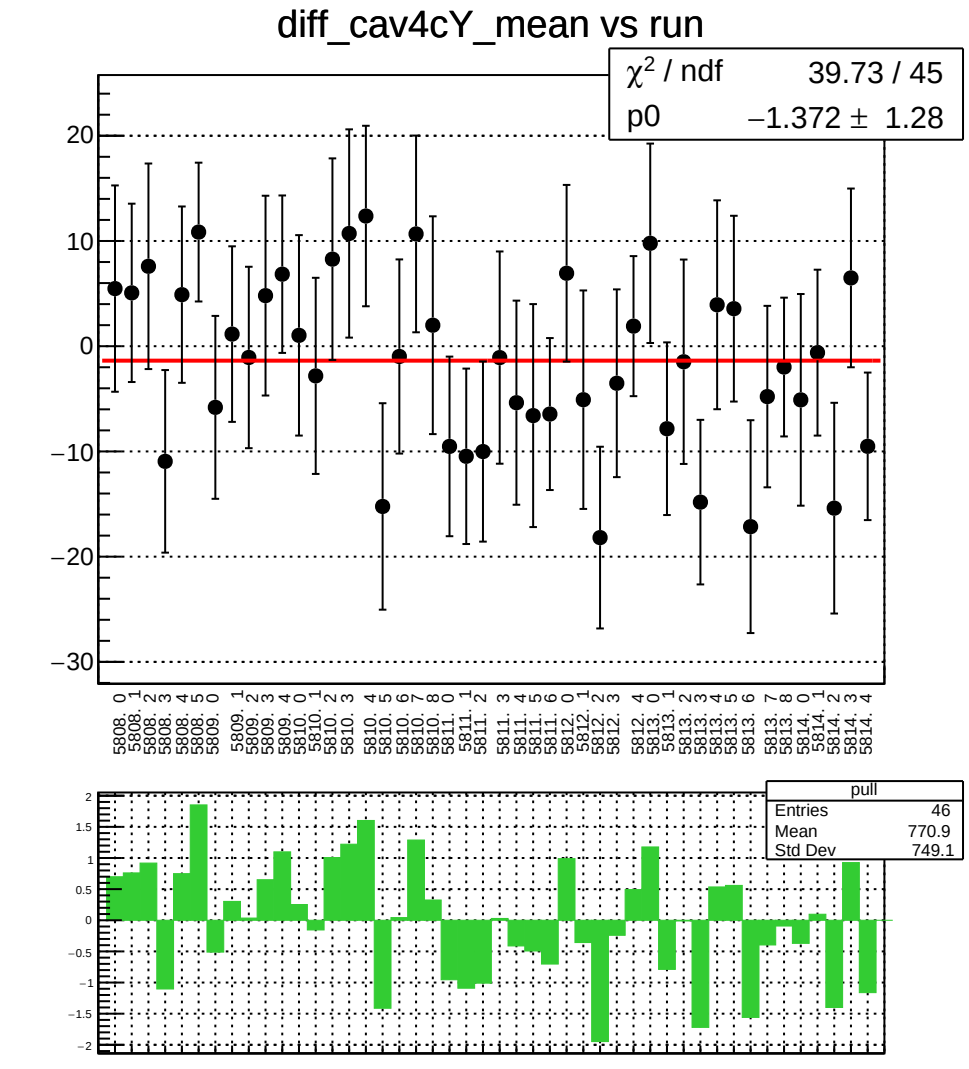

pull1D
Entries 46
Mean −0.005741
Std Dev 0.929
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

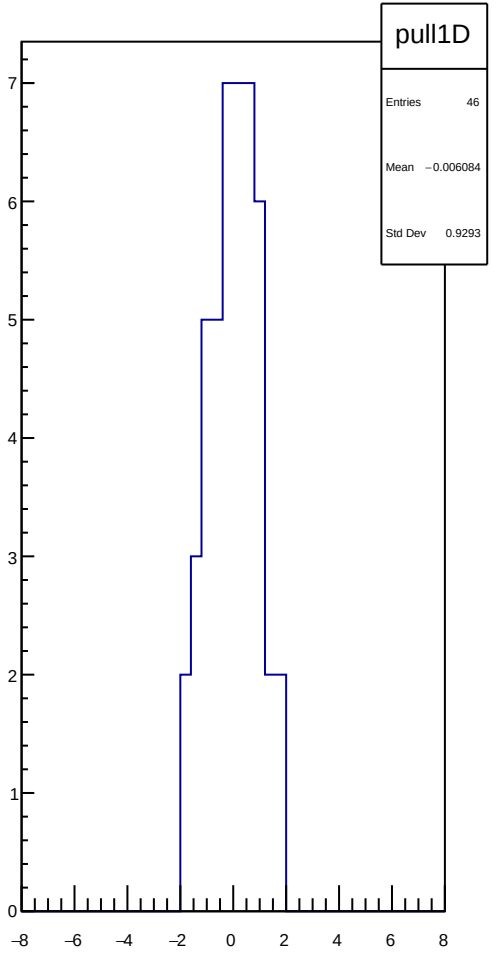

diff_cav4bY_rms vs run
χ² / ndf 5381 / 45
p0 7058 ± 7.432
8500
8000
7500
7000
6500
6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

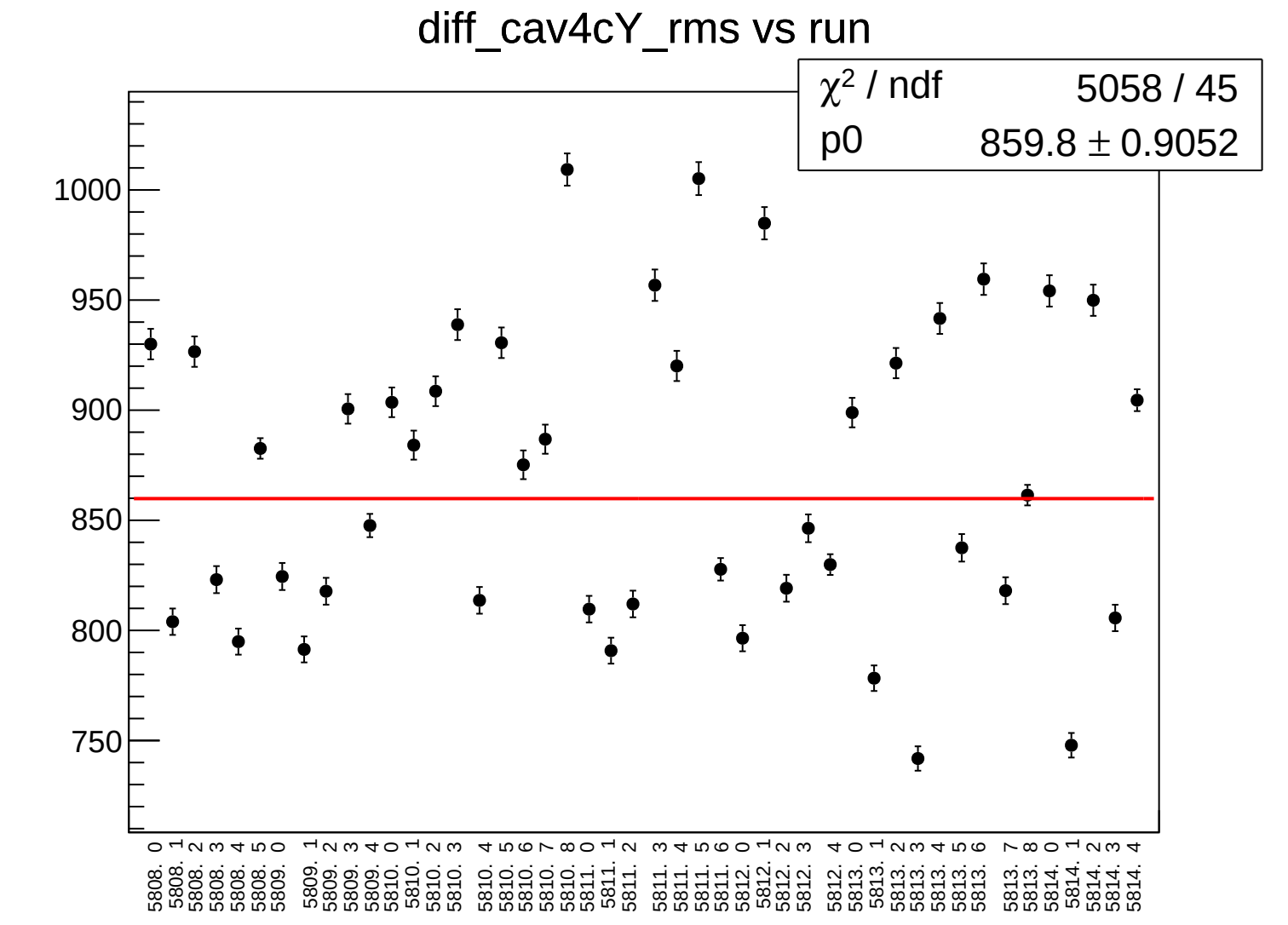

diff_cav4cX_mean vs run
χ² / ndf 53.91 / 45
p0 −3.962 ± 1.699
40
20
0
−20
−40
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −643.9
Std Dev 666.1
2
1
0
−1
−2

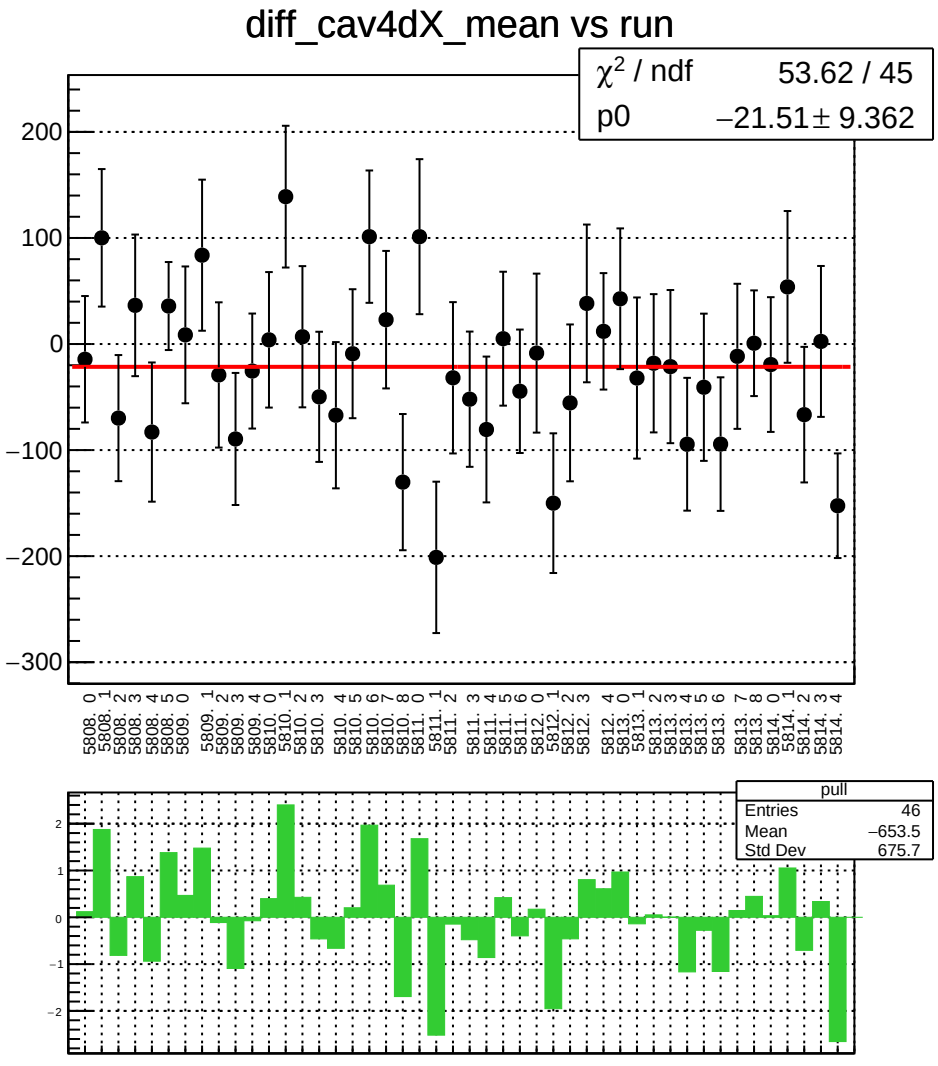

pull1D
Entries 46
Mean 0.005462
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

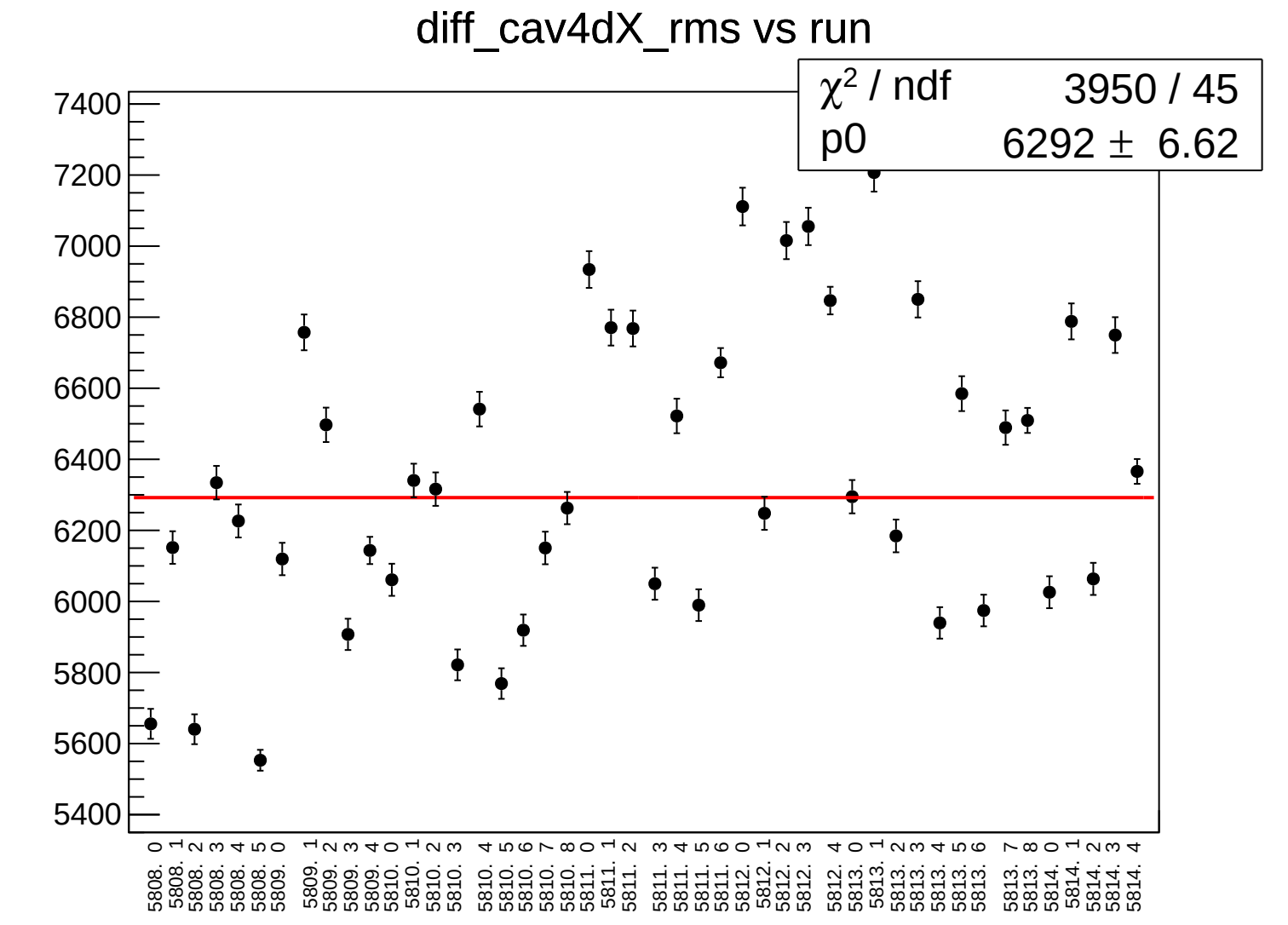

diff_cav4cX_rms vs run
χ² / ndf 3950 / 45
p0 1142 ± 1.202
1300
1250
1200
1150
1100
1050
1000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

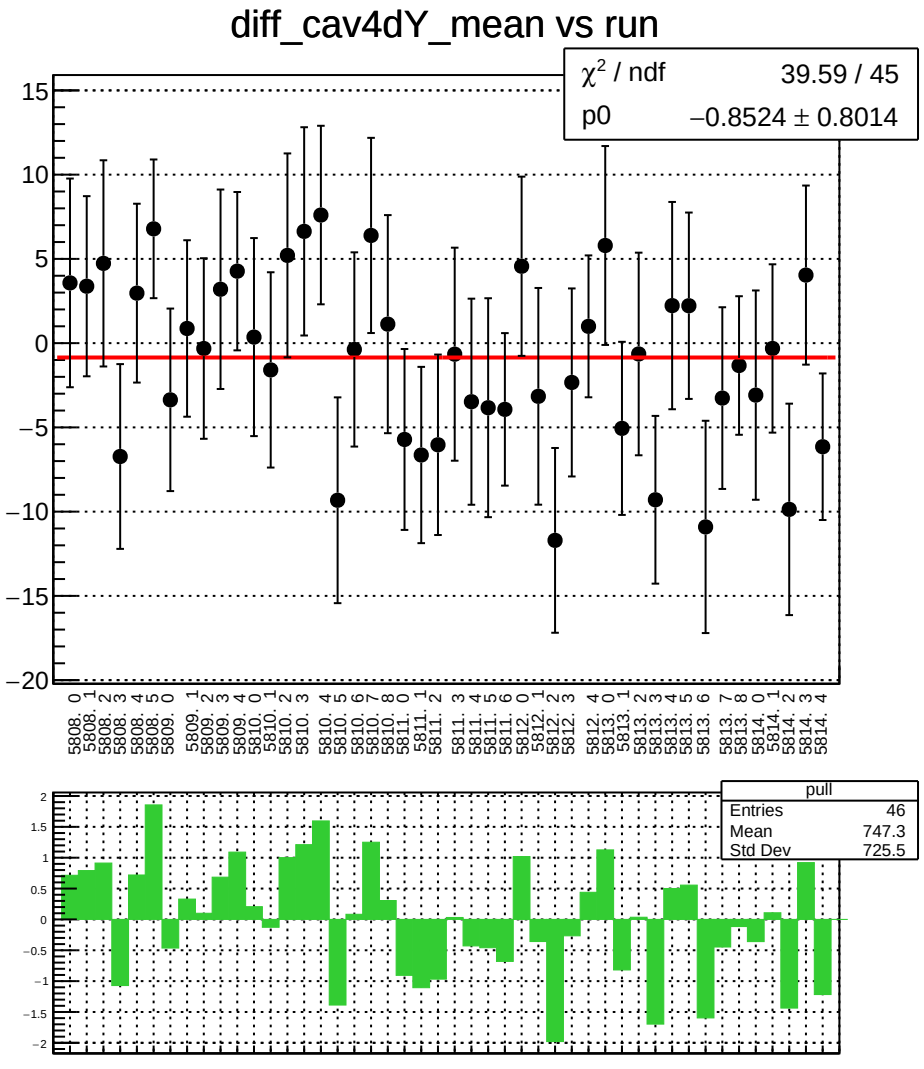

diff_cav4cY_mean vs run
χ² / ndf 39.73 / 45
p0 −1.372 ± 1.28
pull
Entries 46
Mean 770.9
Std Dev 749.1

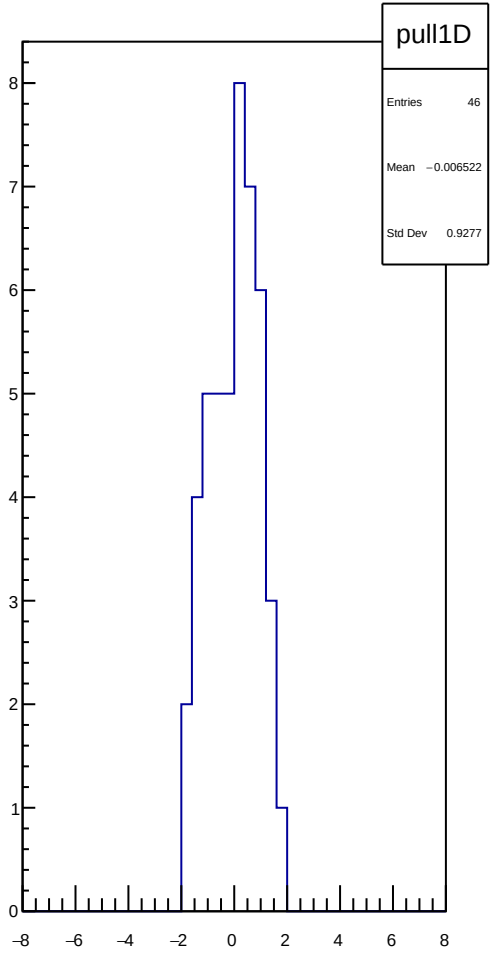

pull1D
Entries 46
Mean −0.006084
Std Dev 0.9293

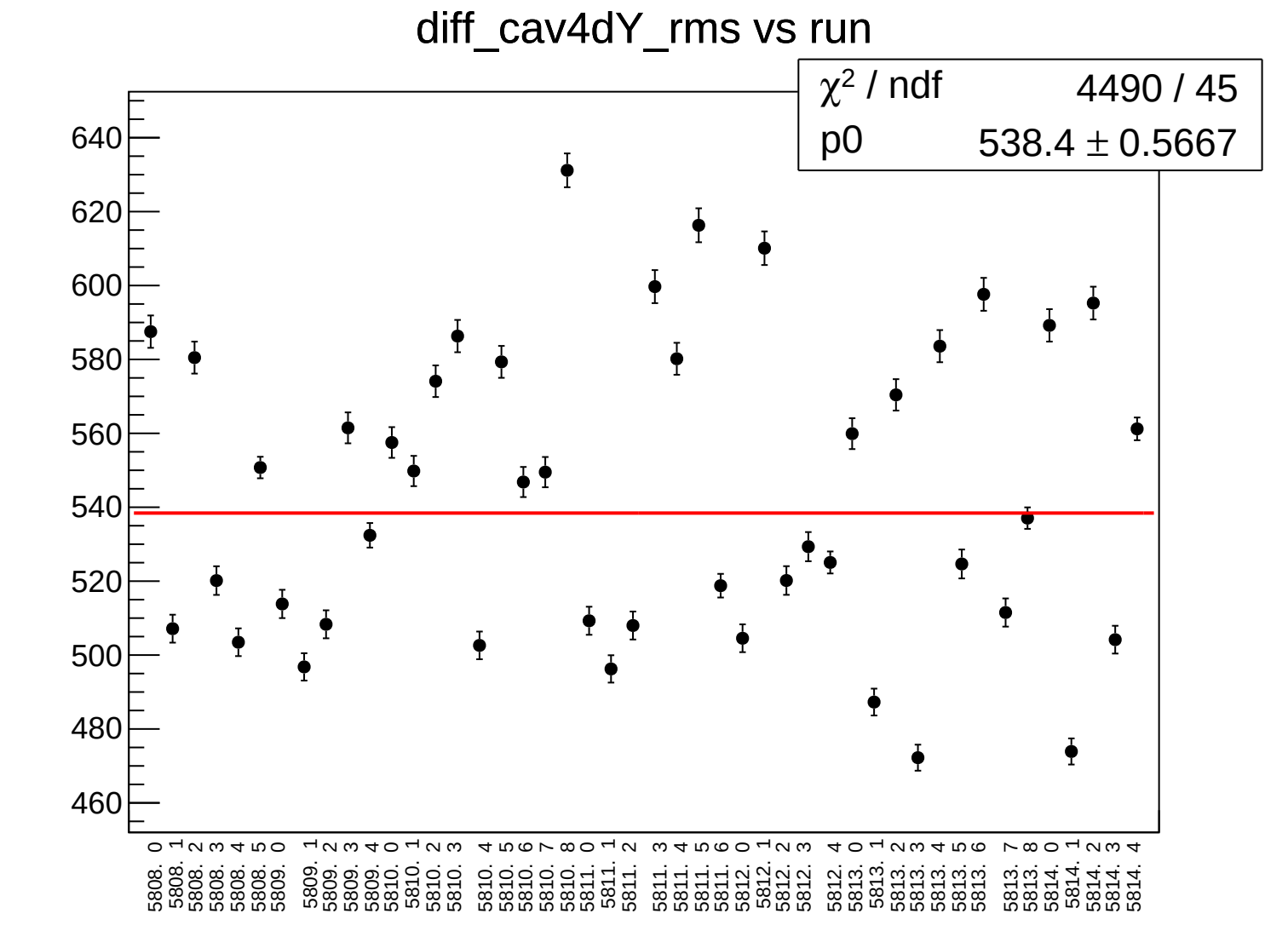

diff_cav4cY_rms vs run
χ² / ndf 5058 / 45
p0 859.8 ± 0.9052
1000
950
900
850
800
750
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

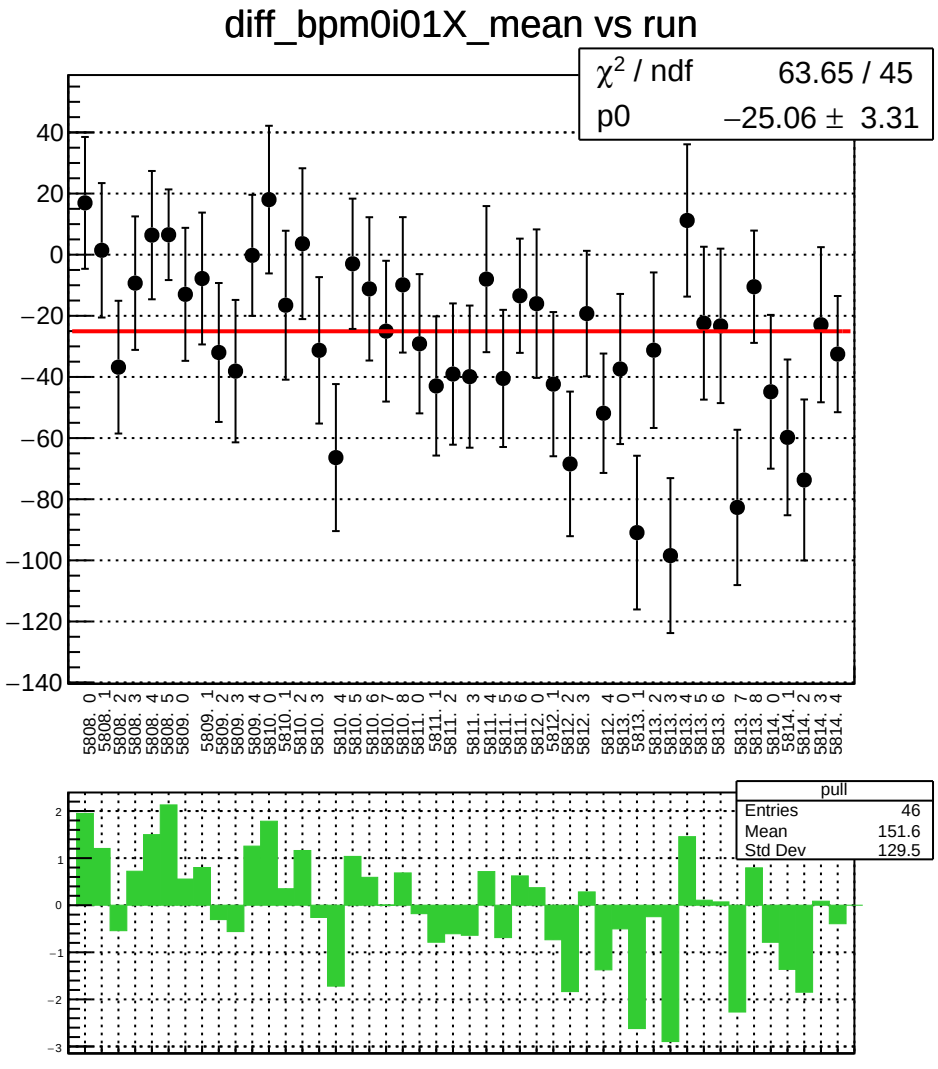

diff_cav4dX_mean vs run
χ² / ndf 53.62 / 45
p0 −21.51 ± 9.362
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −653.5
Std Dev 675.7
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.005354
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

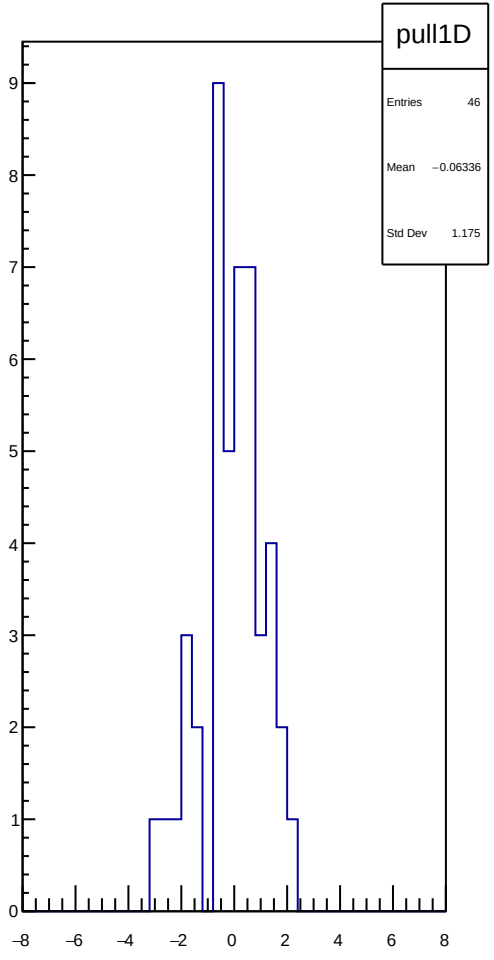

diff_cav4dX_rms vs run
χ² / ndf 3950 / 45
p0 6292 ± 6.62
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

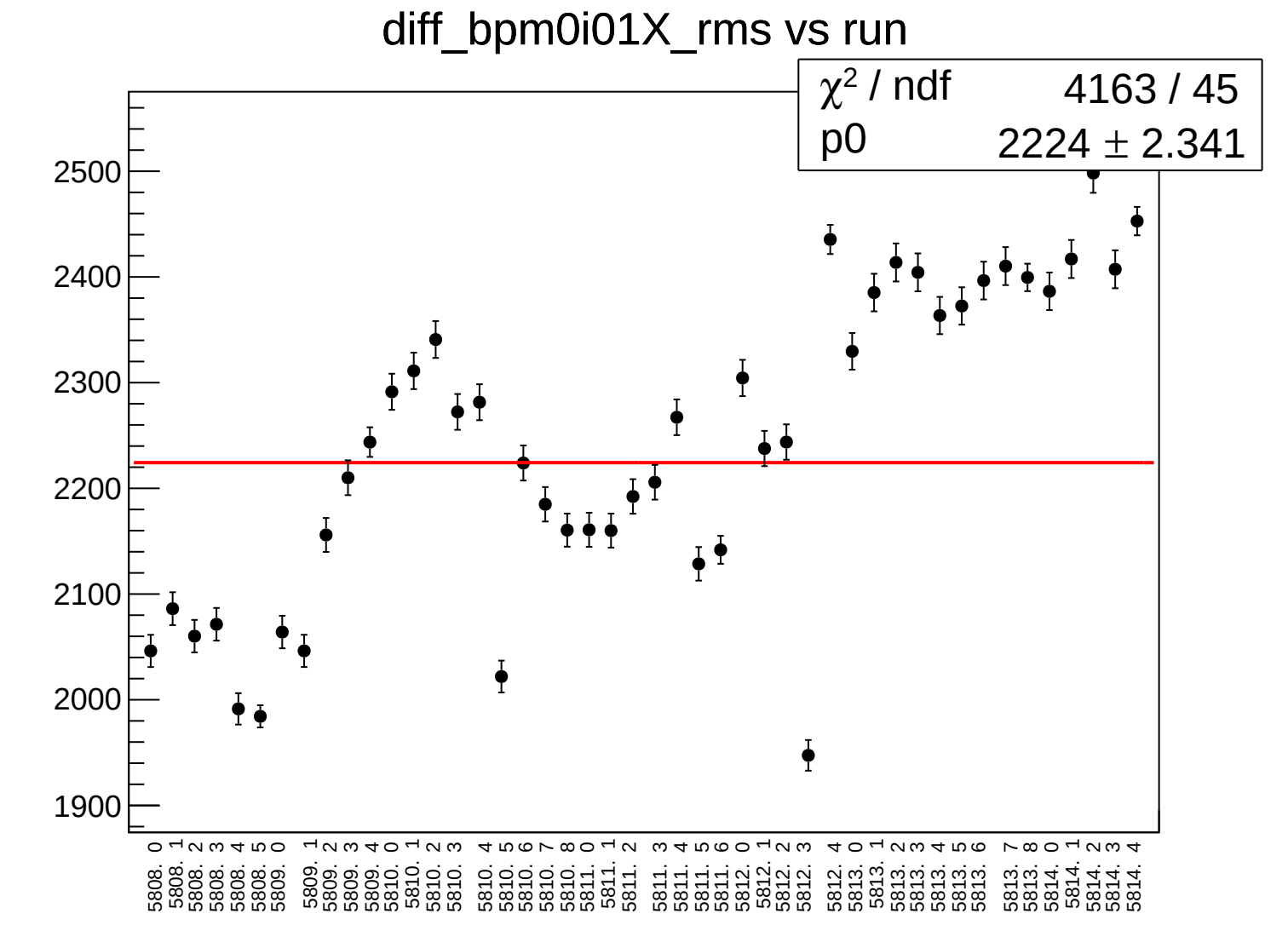

diff_cav4dY_mean vs run
χ² / ndf 39.59 / 45
p0 −0.8524 ± 0.8014
pull
Entries 46
Mean 747.3
Std Dev 725.5

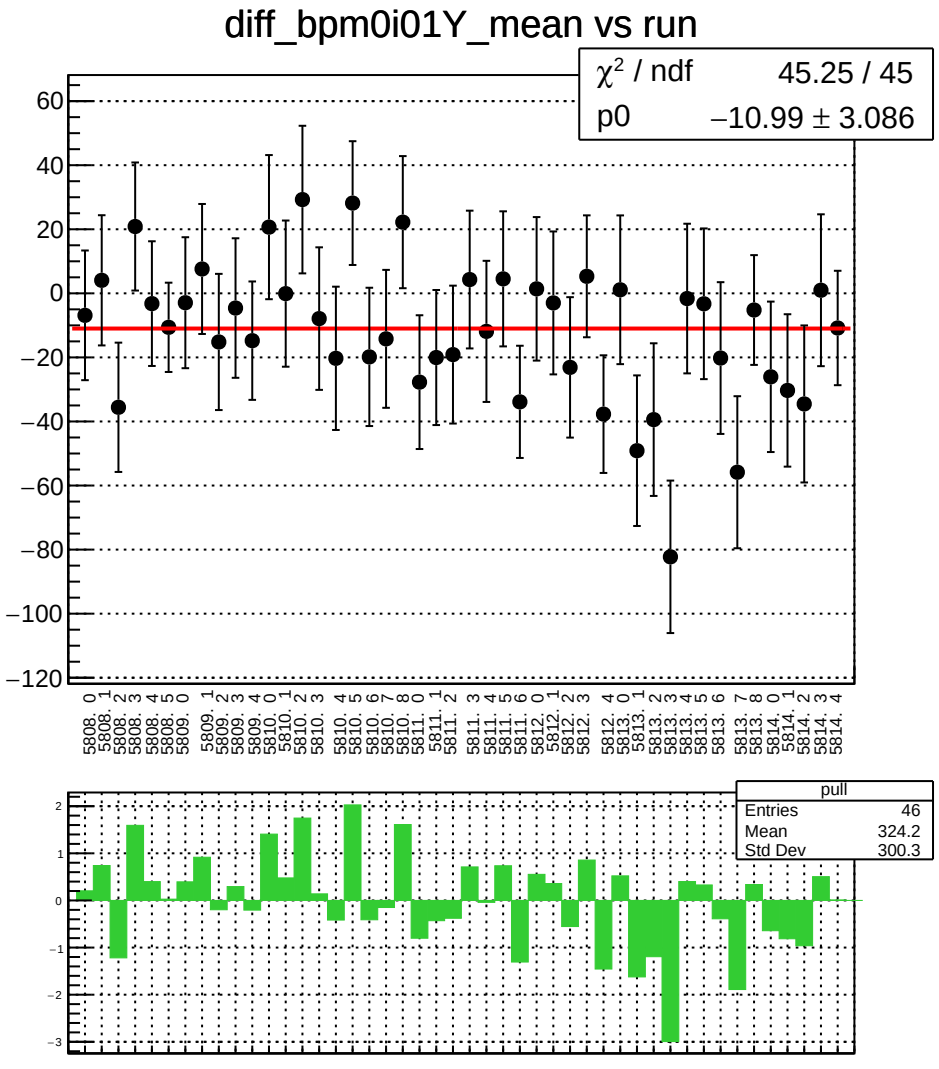

pull1D
Entries 46
Mean −0.006522
Std Dev 0.9277

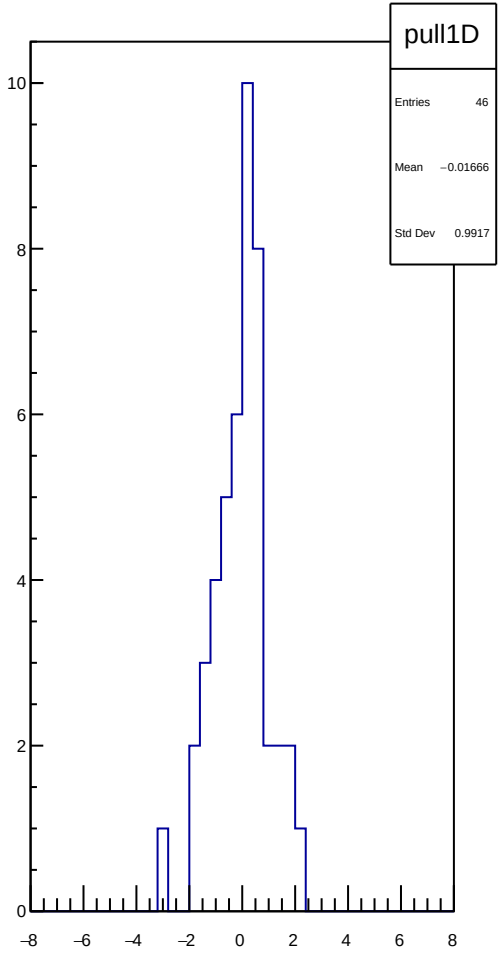

diff_cav4dY_rms vs run
χ² / ndf 4490 / 45
p0 538.4 ± 0.5667
640
620
600
580
560
540
520
500
480
460
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

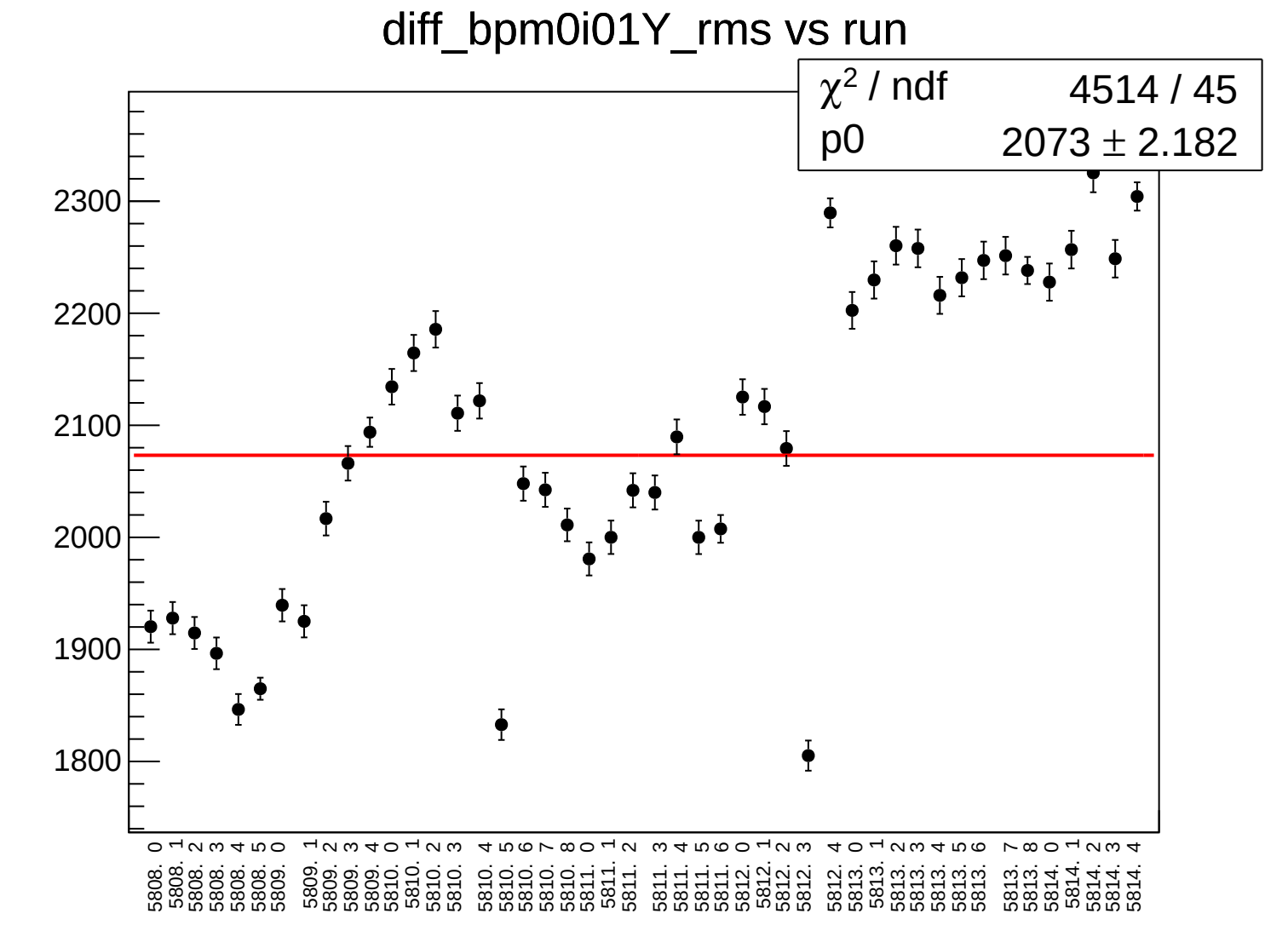

diff_bpm0i01X_mean vs run
χ² / ndf 63.65 / 45
p0 −25.06 ± 3.31
pull
Entries 46
Mean 151.6
Std Dev 129.5

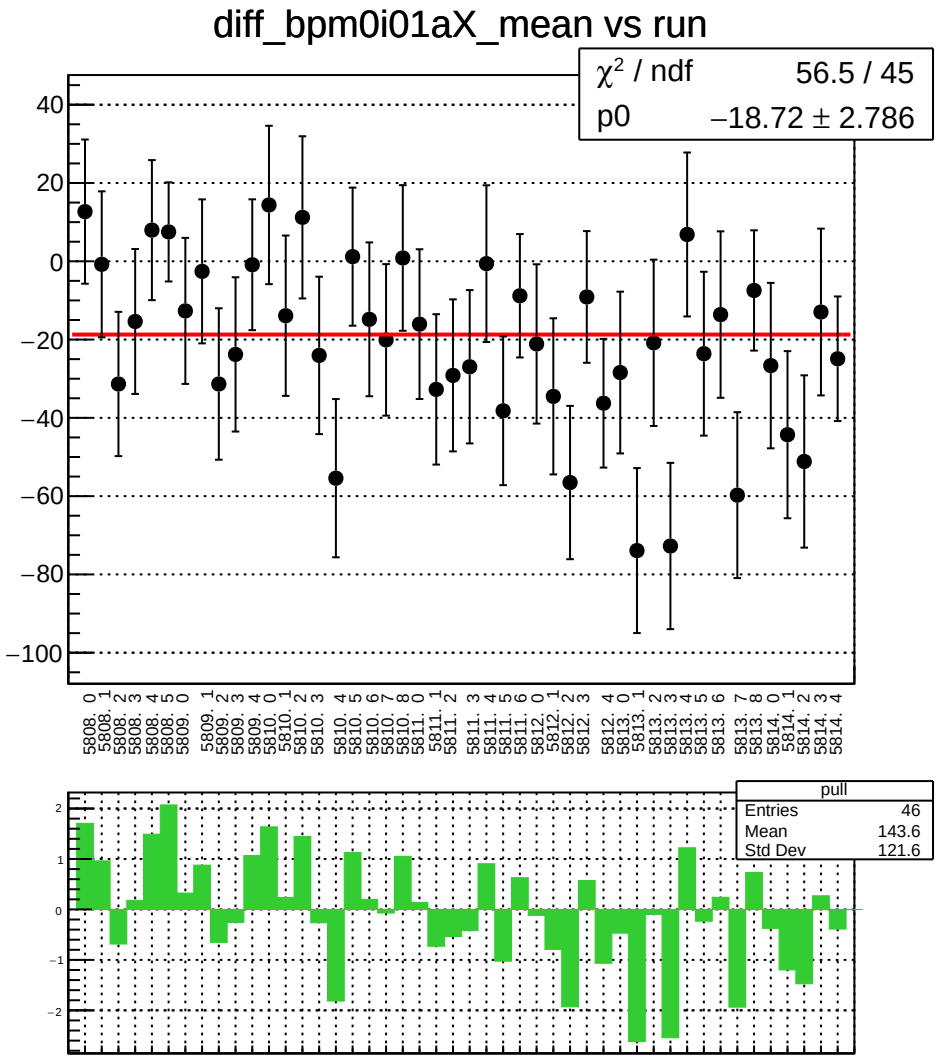

pull1D
Entries 46
Mean −0.06336
Std Dev 1.175

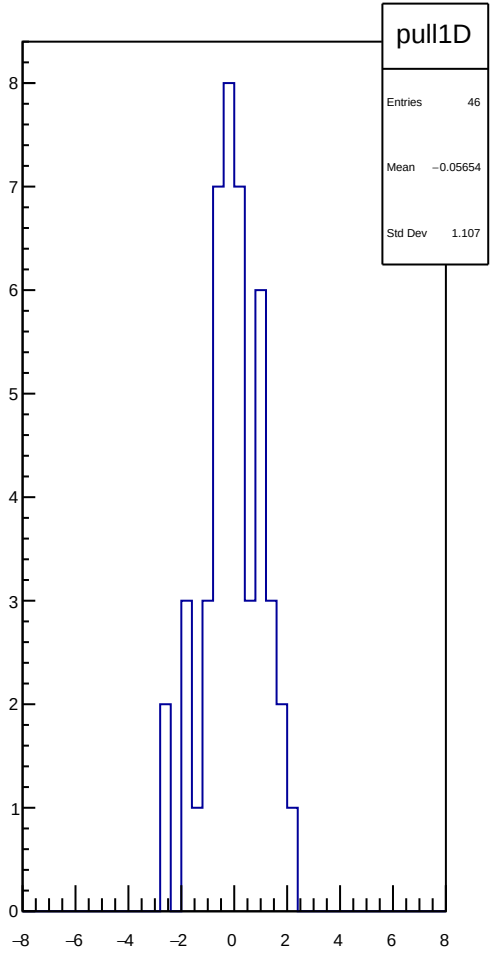

diff_bpm0i01X_rms vs run
χ² / ndf 4163 / 45
p0 2224 ± 2.341
2500
2400
2300
2200
2100
2000
1900
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

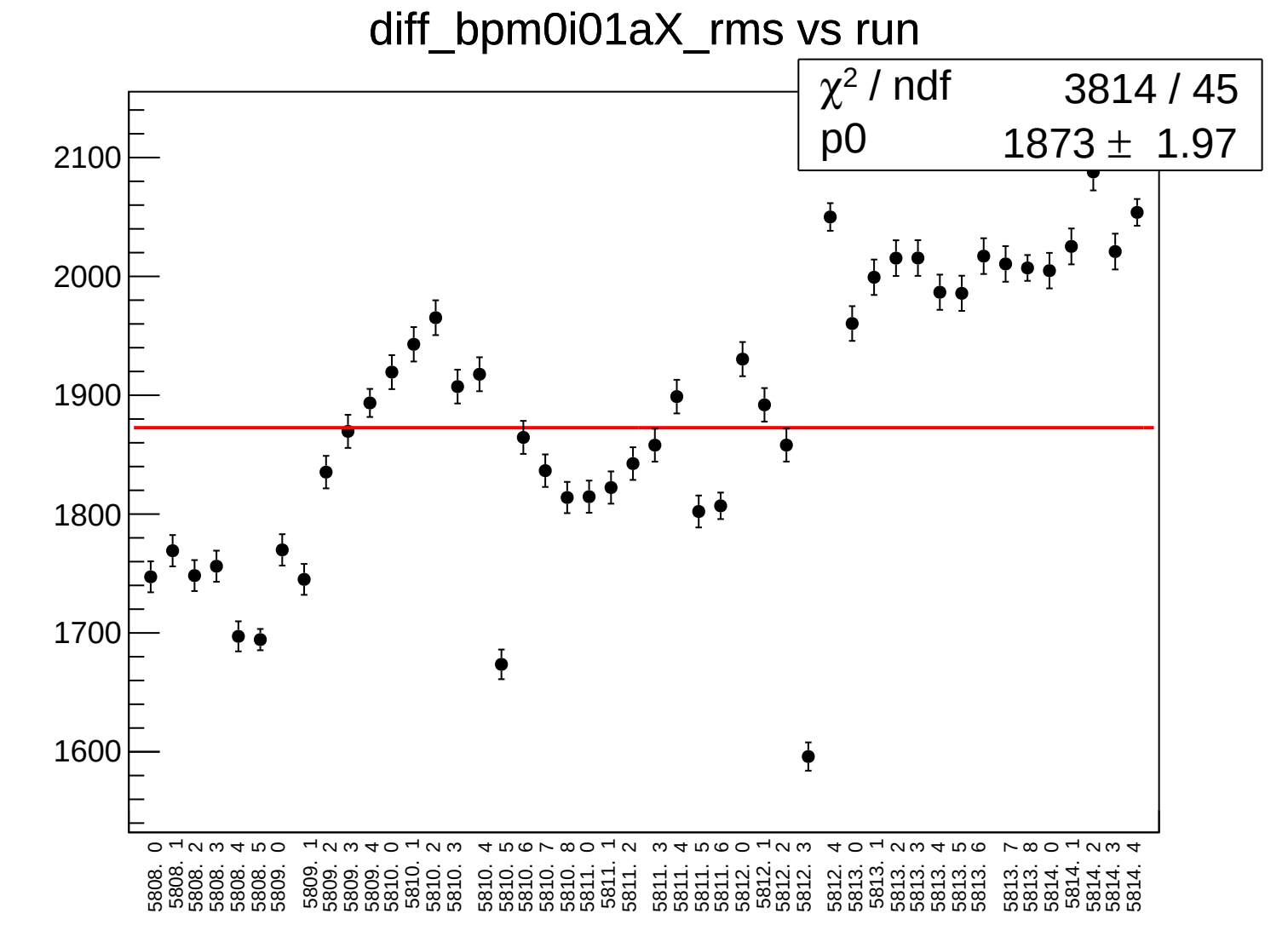

diff_bpm0i01Y_mean vs run
χ² / ndf 45.25 / 45
p0 −10.99 ± 3.086
pull
Entries 46
Mean 324.2
Std Dev 300.3

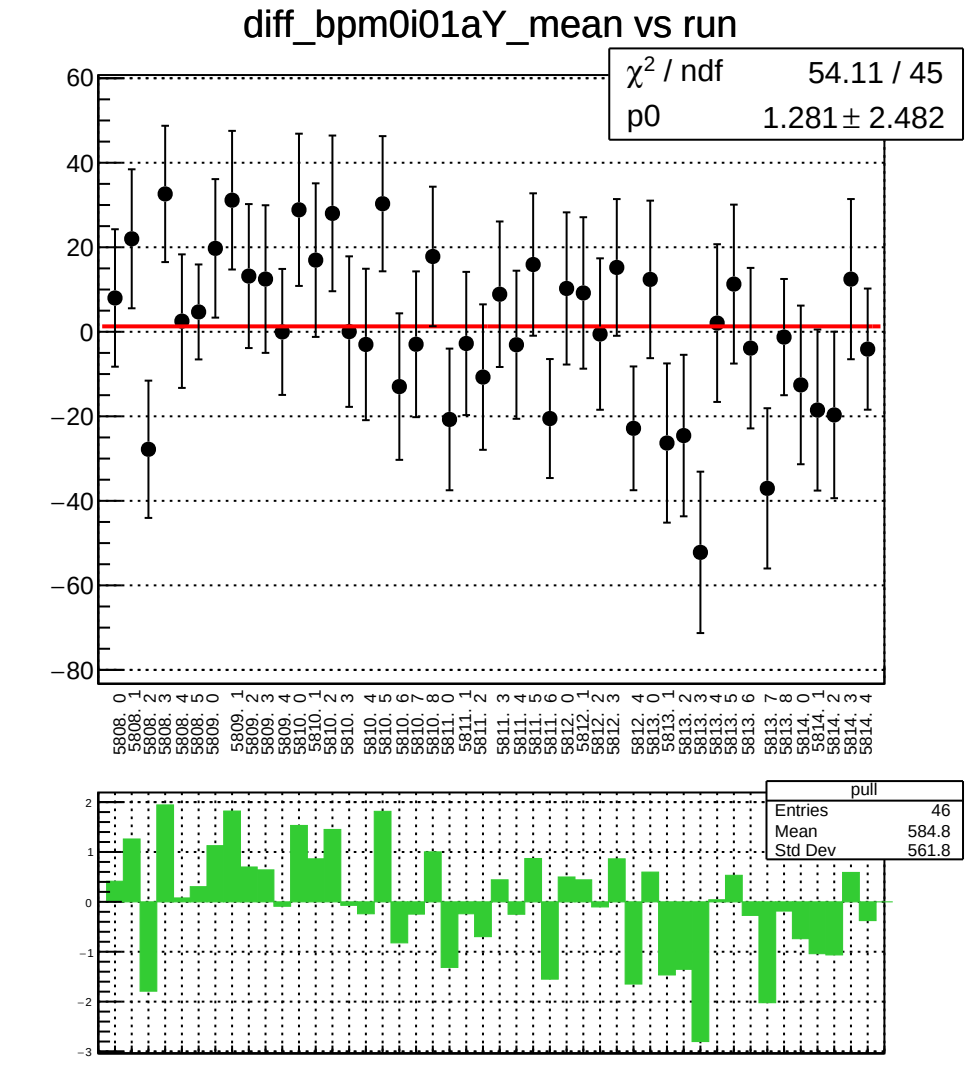

pull1D
Entries 46
Mean −0.01666
Std Dev 0.9917

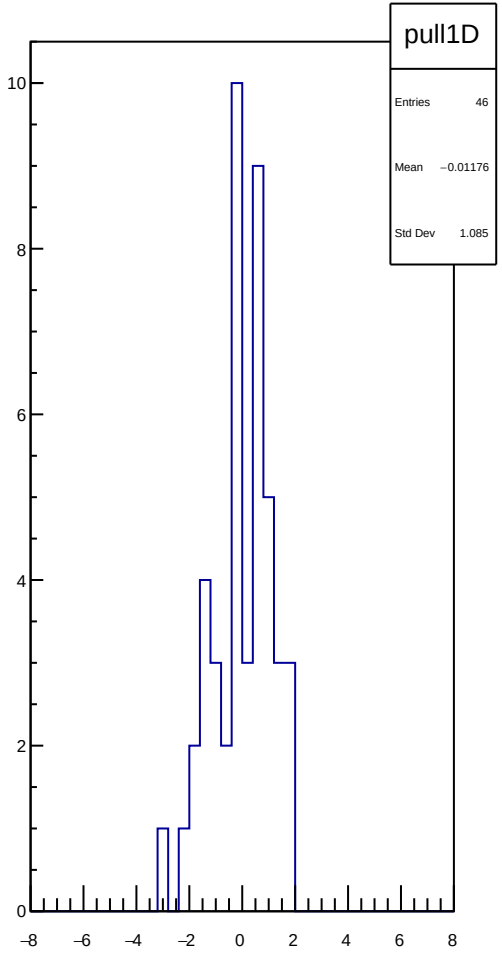

diff_bpm0i01Y_rms vs run
χ² / ndf 4514 / 45
p0 2073 ± 2.182
2300
2200
2100
2000
1900
1800
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

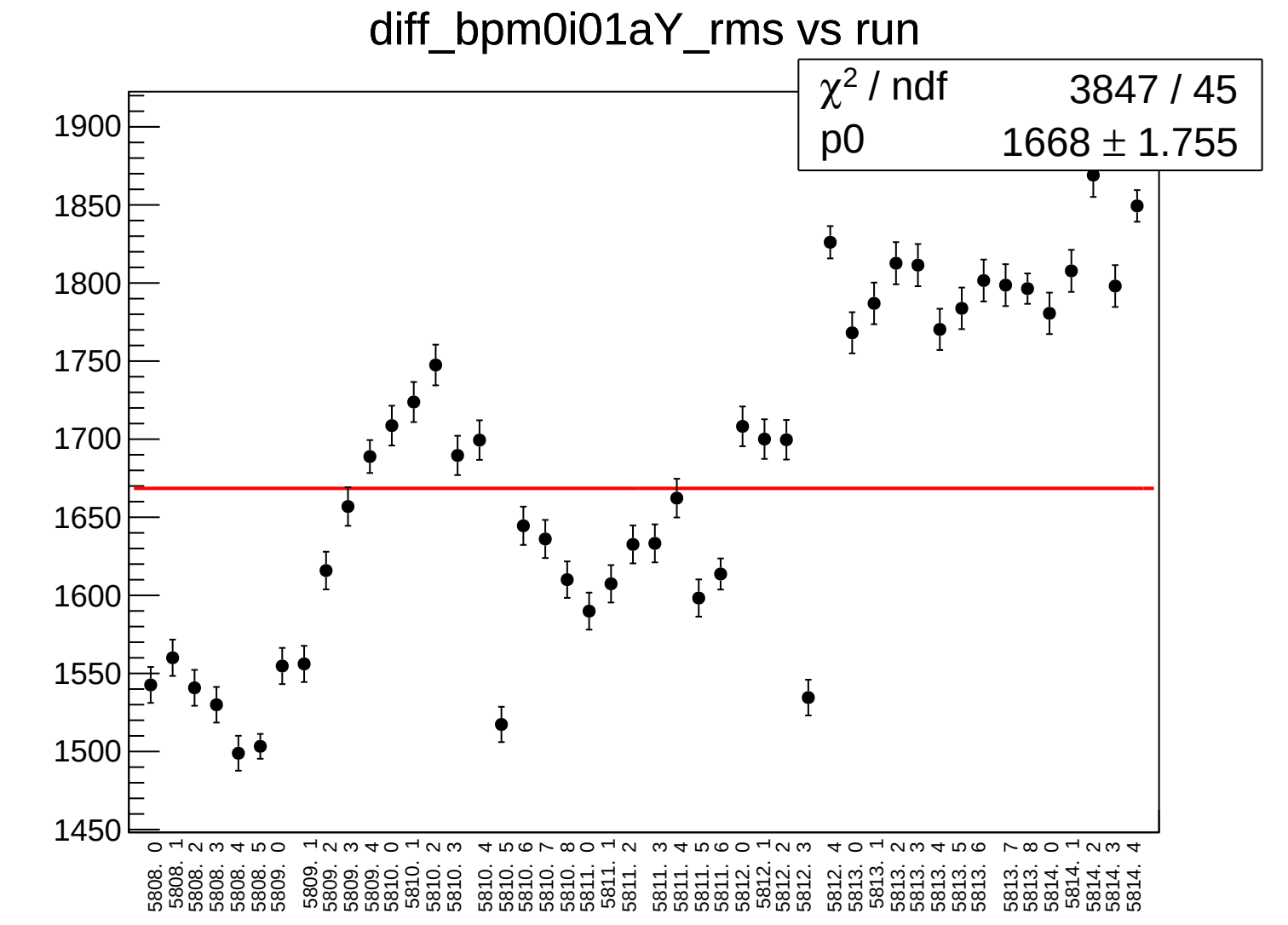

diff_bpm0i01aX_mean vs run
χ² / ndf 56.5 / 45
p0 −18.72 ± 2.786
pull
Entries 46
Mean 143.6
Std Dev 121.6

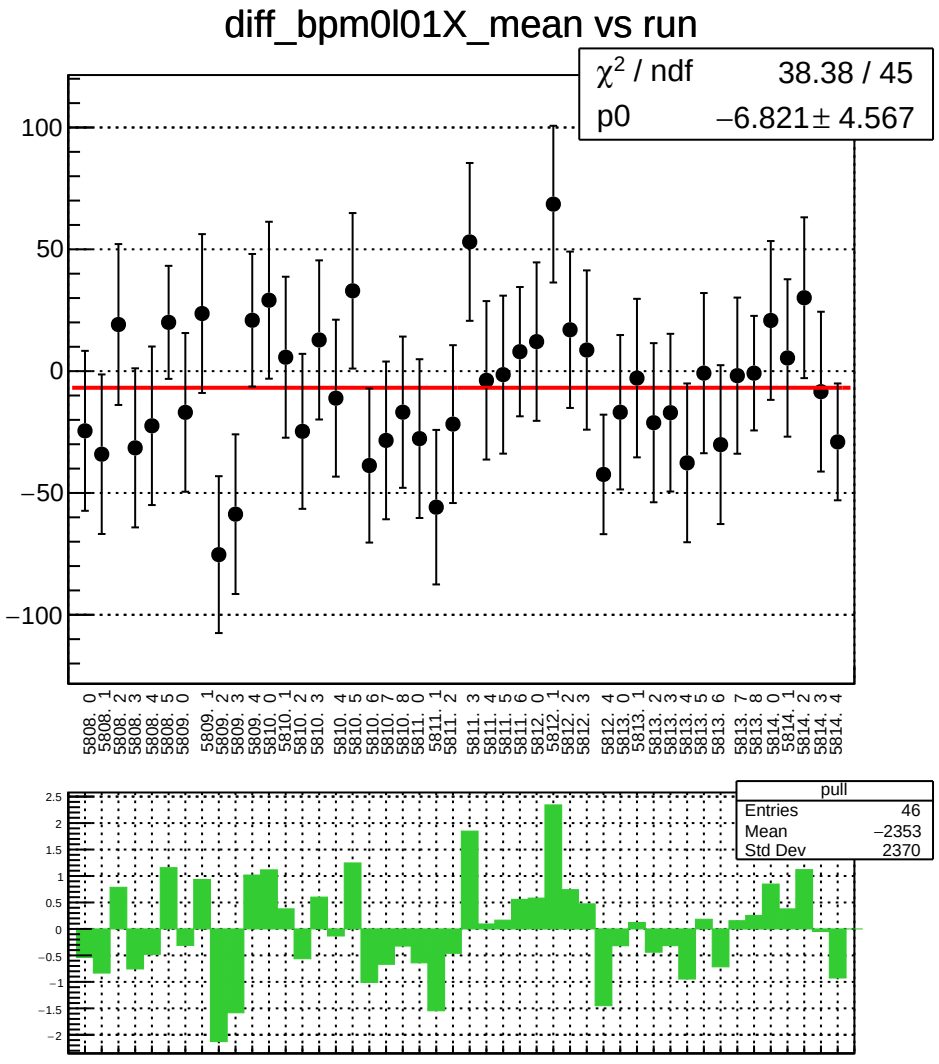

pull1D
Entries 46
Mean −0.05654
Std Dev 1.107

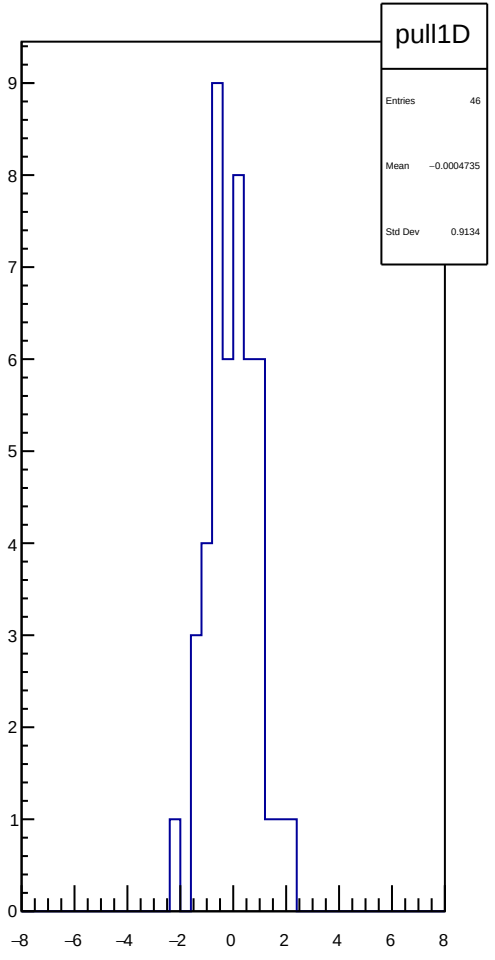

diff_bpm0i01aX_rms vs run
χ² / ndf 3814 / 45
p0 1873 ± 1.97
2100
2000
1900
1800
1700
1600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

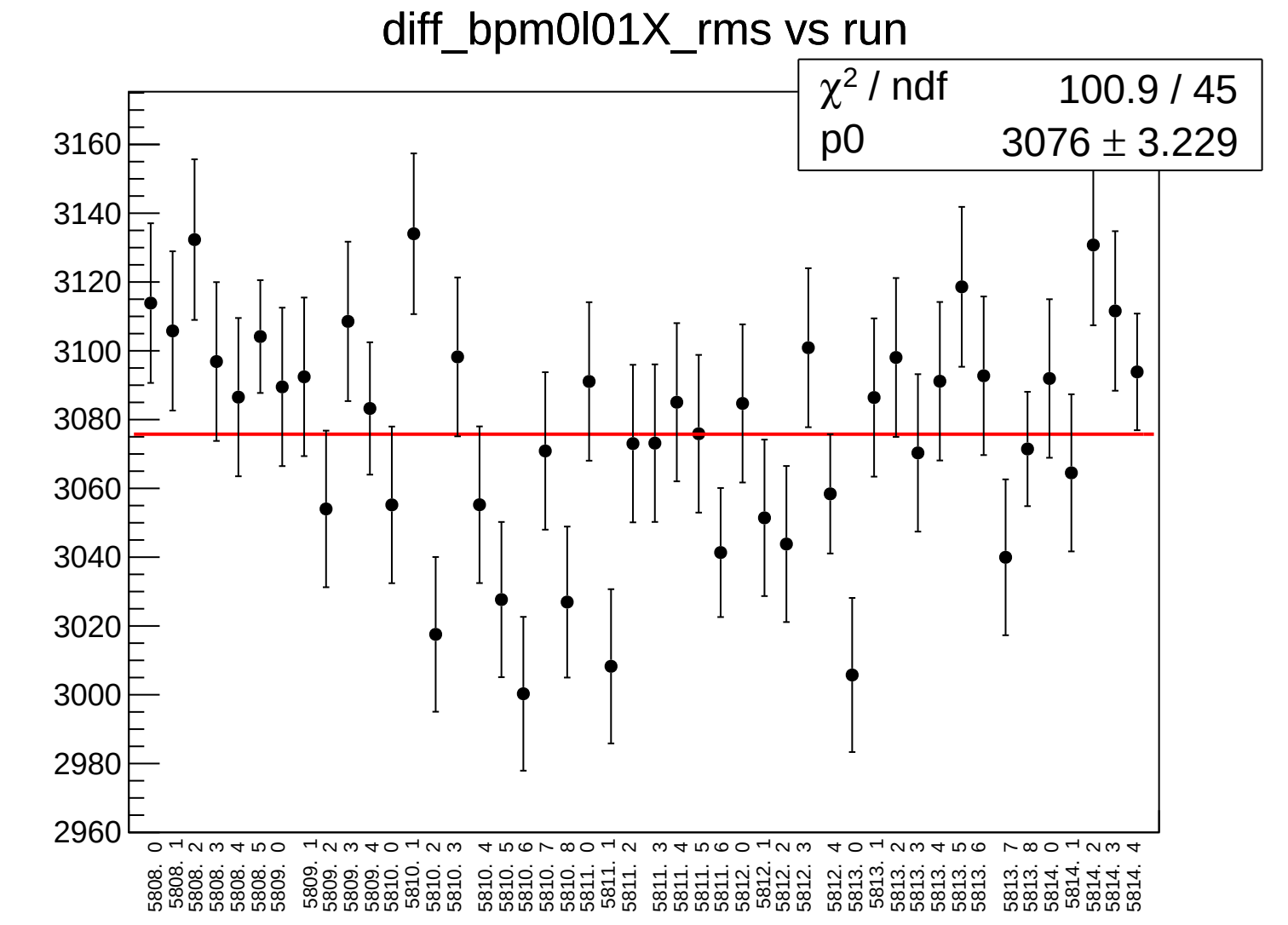

diff_bpm0i01aY_mean vs run
χ² / ndf 54.11 / 45
p0 1.281 ± 2.482
pull
Entries 46
Mean 584.8
Std Dev 561.8

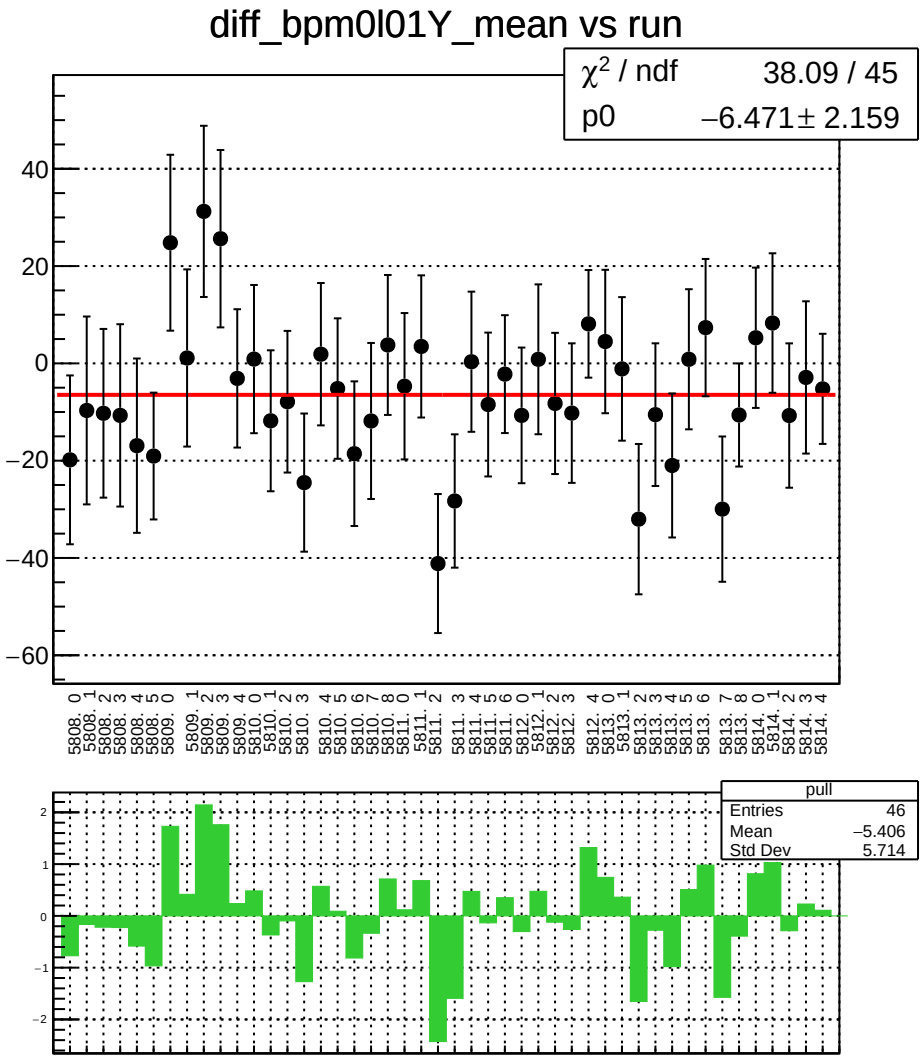

pull1D
Entries 46
Mean −0.01176
Std Dev 1.085

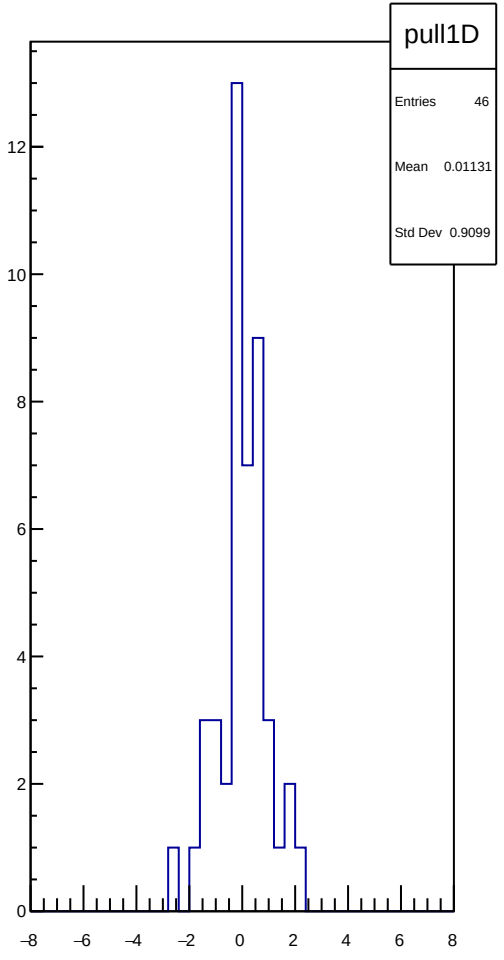

diff_bpm0i01aY_rms vs run
χ² / ndf 3847 / 45
p0 1668 ± 1.755
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

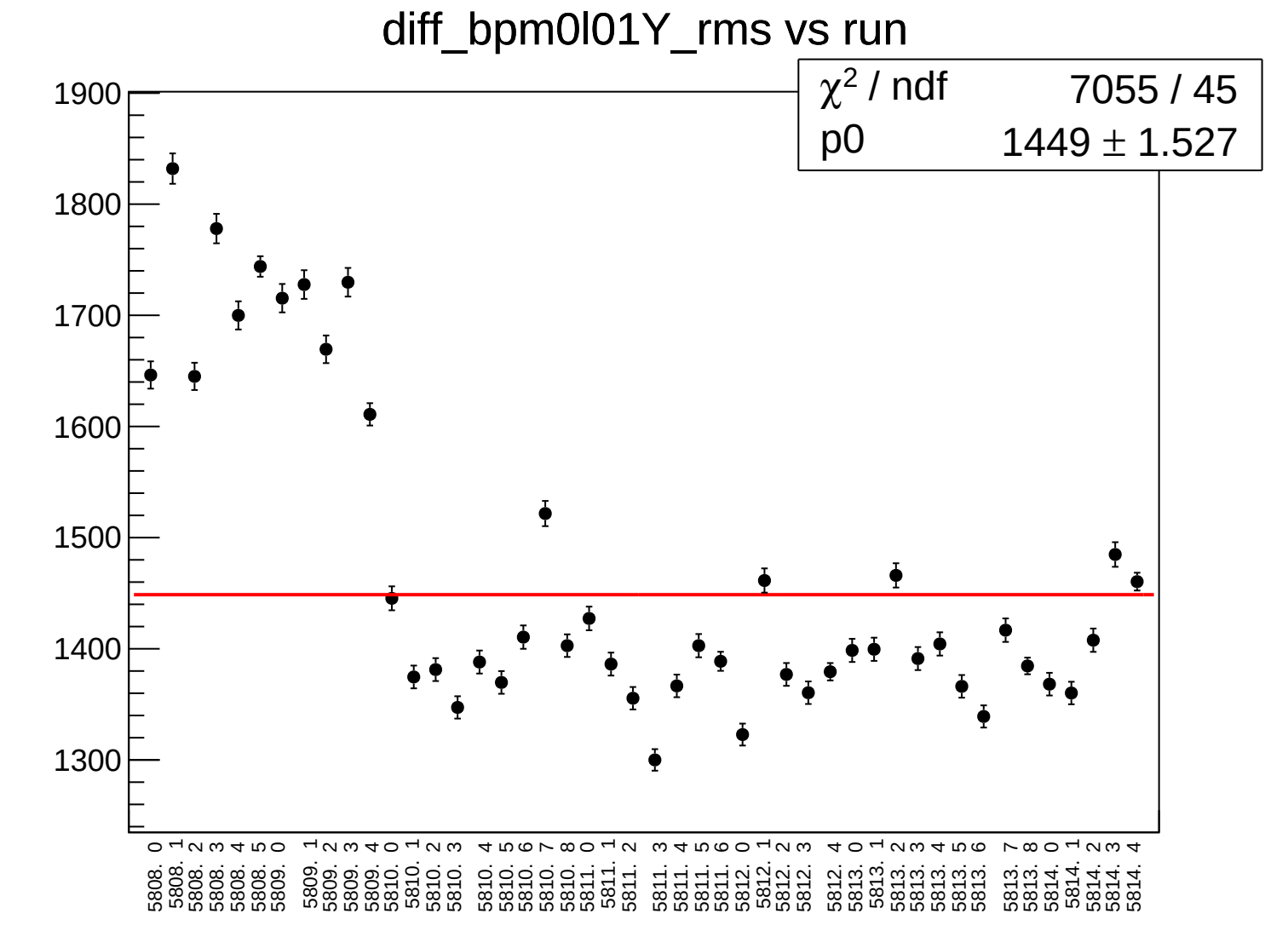

diff_bpm0l01X_mean vs run
χ² / ndf 38.38 / 45
p0 −6.821 ± 4.567
100
50
0
−50
−100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −2353
Std Dev 2370
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

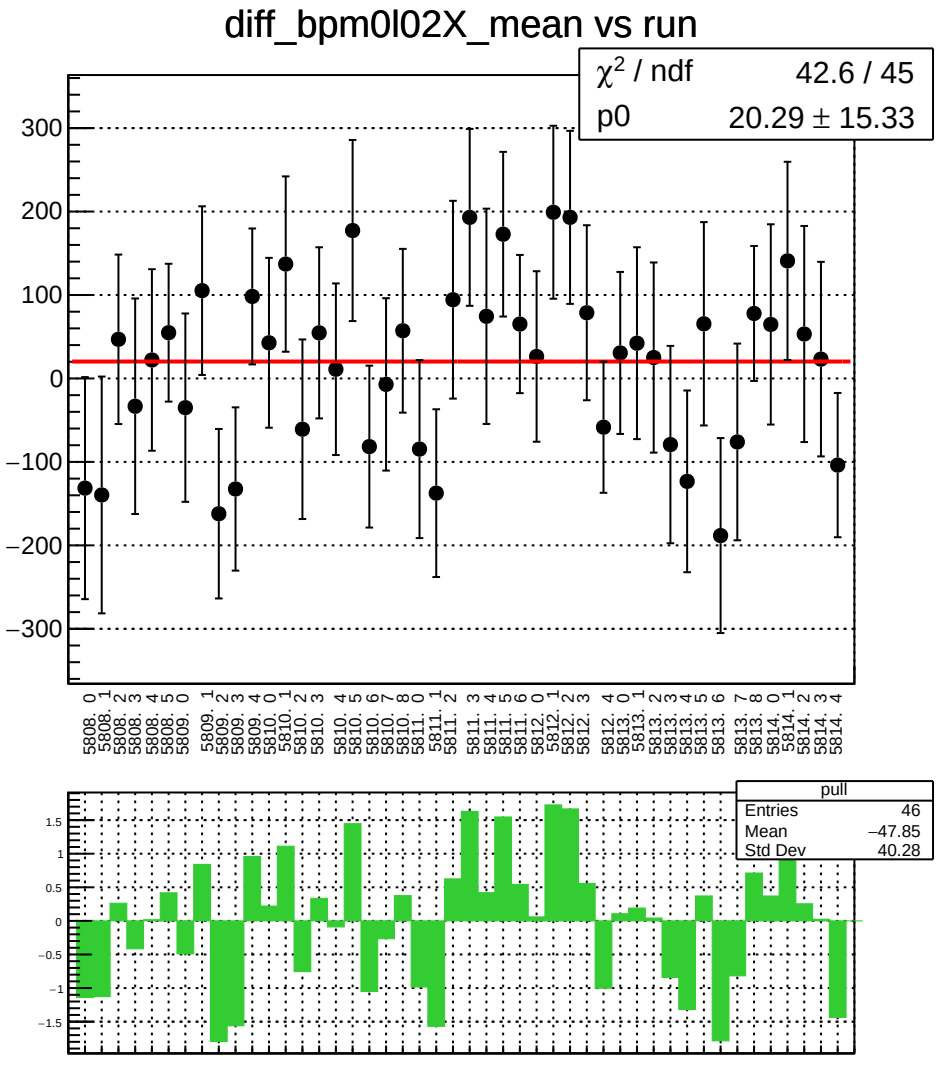

pull1D
Entries 46
Mean −0.0004735
Std Dev 0.9134
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

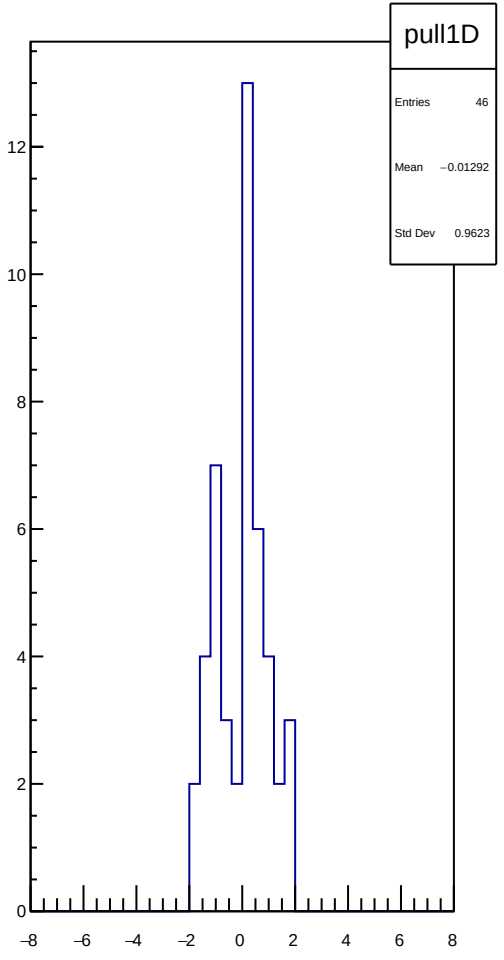

diff_bpm0l01X_rms vs run
χ² / ndf 100.9 / 45
p0 3076 ± 3.229
3160
3140
3120
3100
3080
3060
3040
3020
3000
2980
2960
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

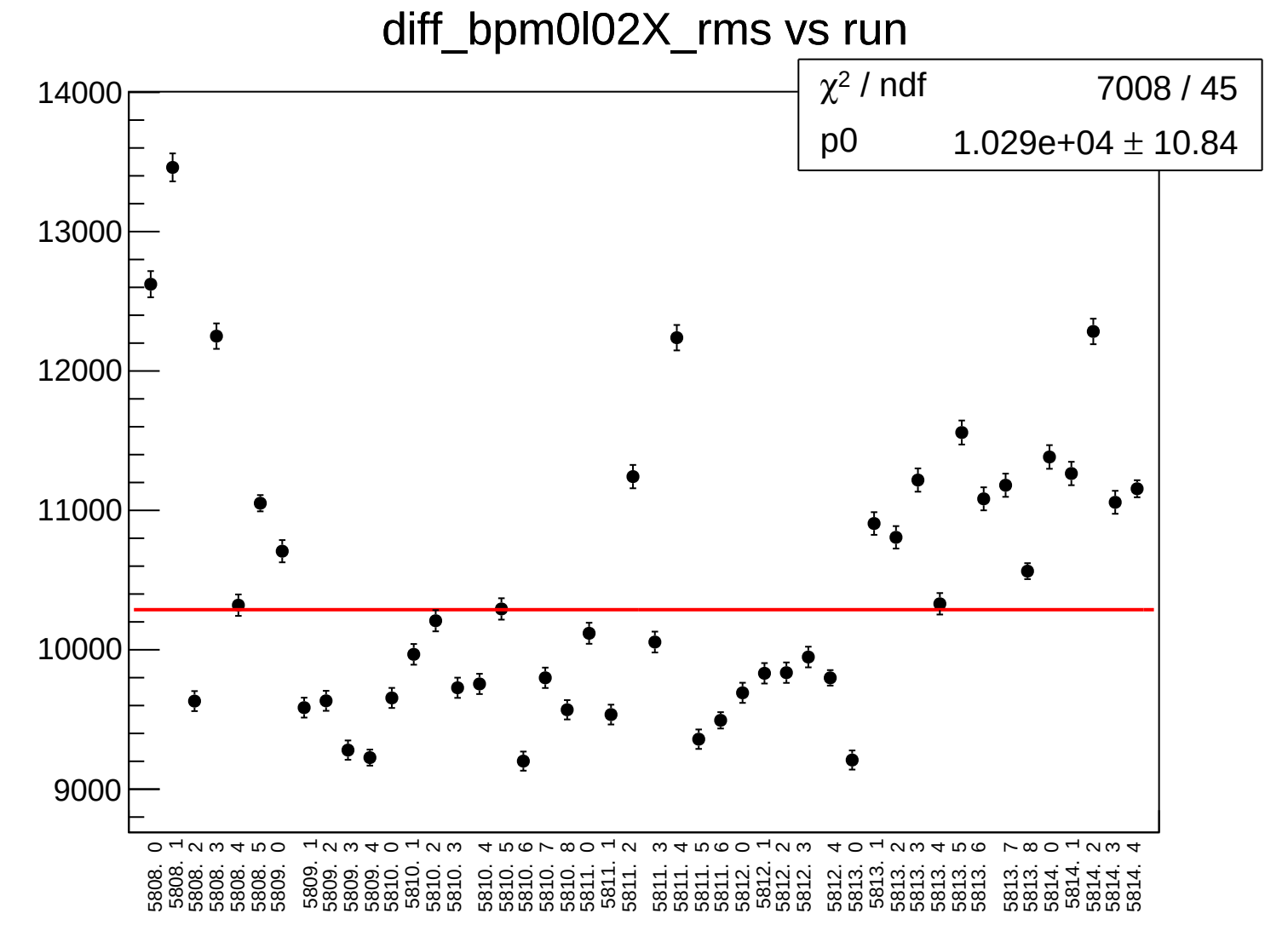

diff_bpm0l01Y_mean vs run
χ² / ndf 38.09 / 45
p0 −6.471 ± 2.159
pull
Entries 46
Mean −5.406
Std Dev 5.714

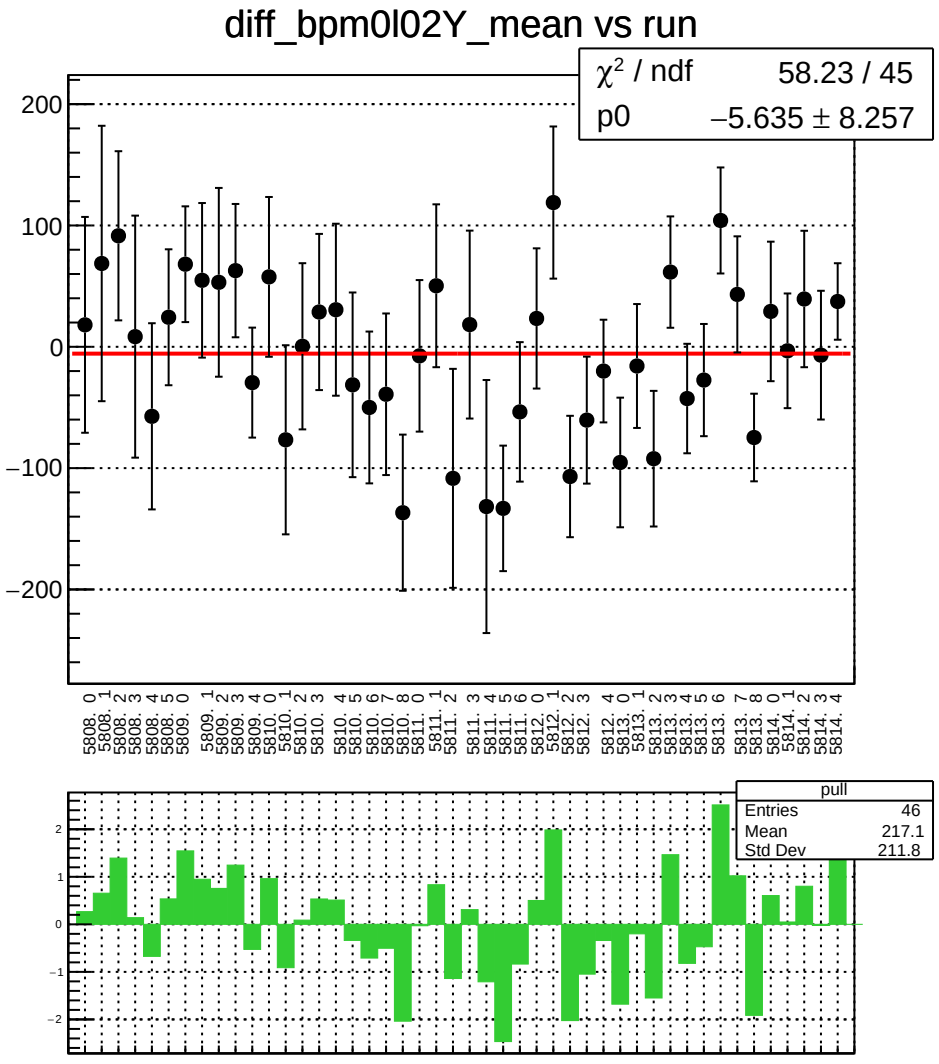

pull1D
Entries 46
Mean 0.01131
Std Dev 0.9099

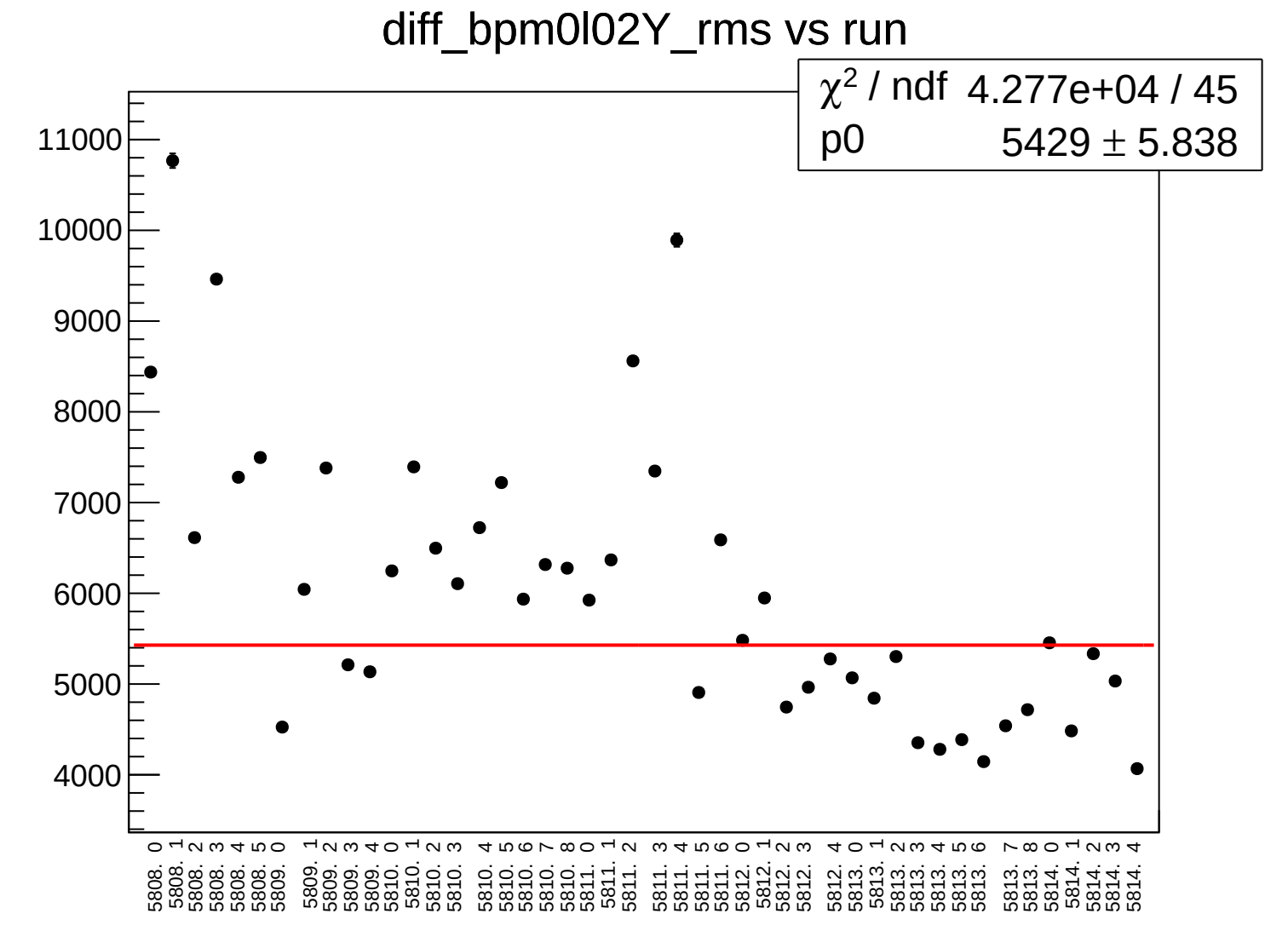

diff_bpm0l01Y_rms vs run
χ² / ndf 7055 / 45
p0 1449 ± 1.527
1900
1800
1700
1600
1500
1400
1300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

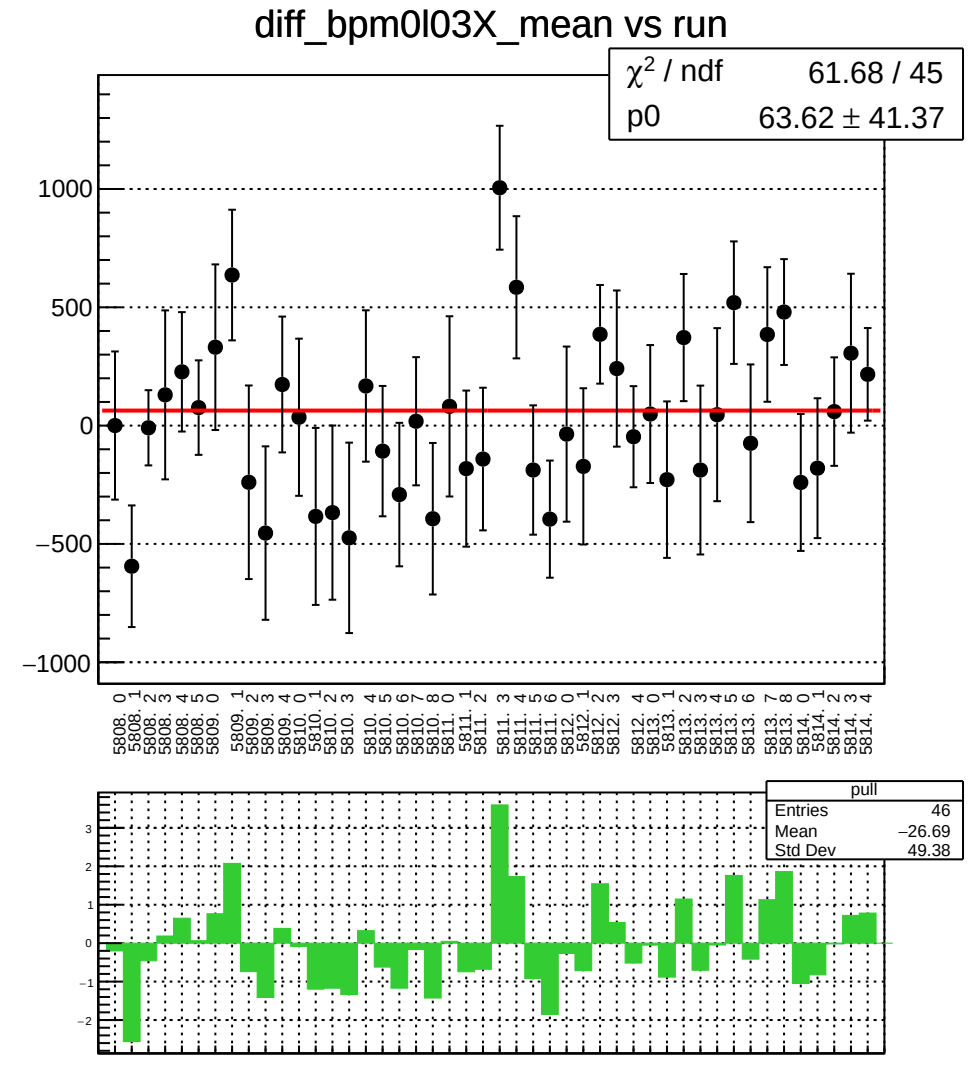

diff_bpm0l02X_mean vs run
χ^2 / ndf 42.6 / 45
p0 20.29 ± 15.33
300
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −47.85
Std Dev 40.28
1.5
1
0.5
0
−0.5
−1
−1.5

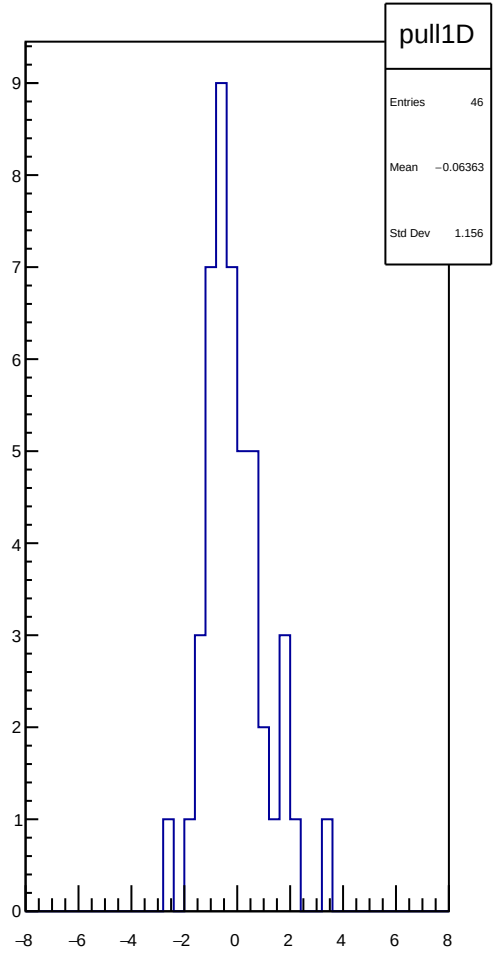

pull1D
Entries 46
Mean −0.01292
Std Dev 0.9623
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

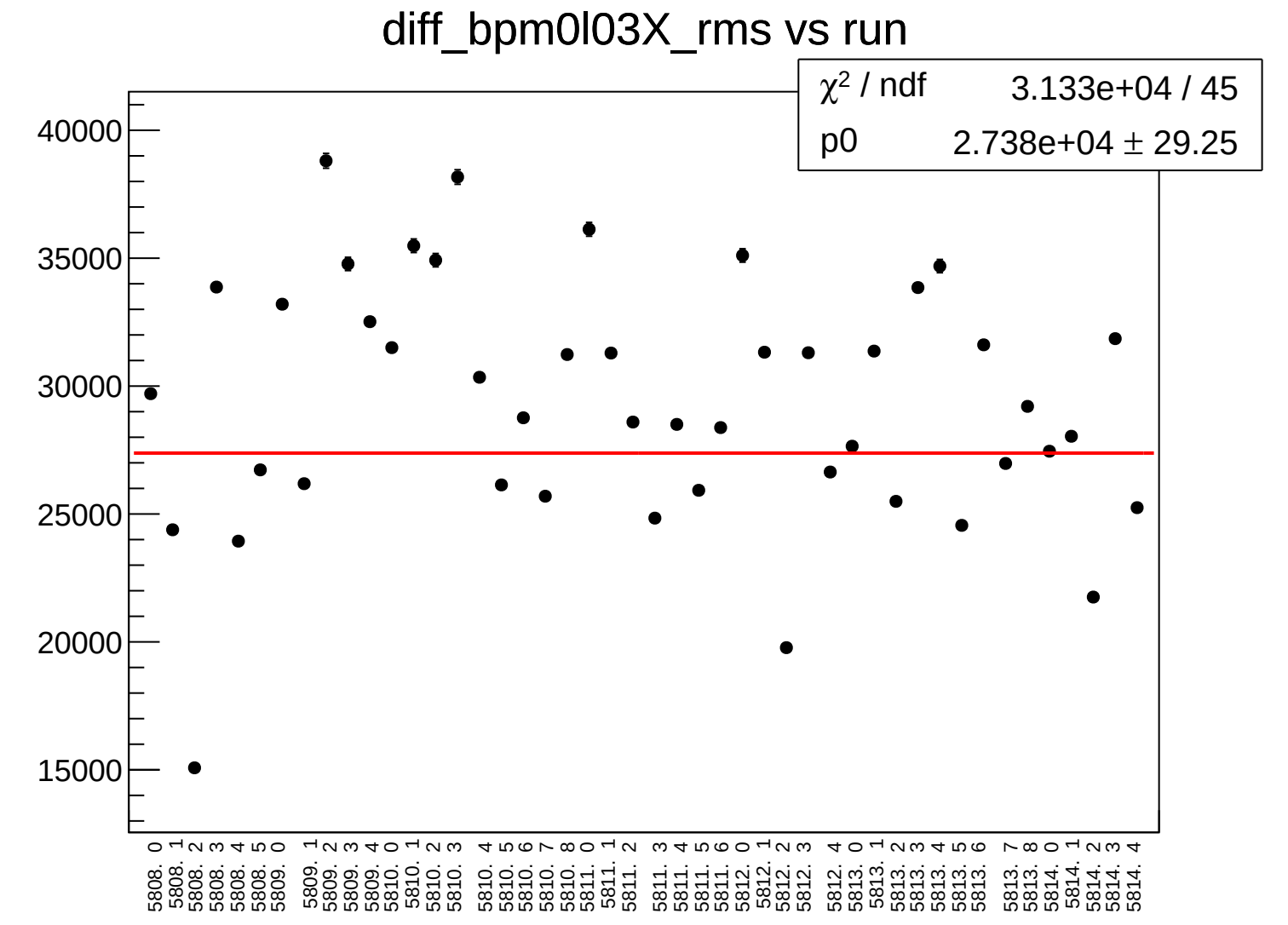

diff_bpm0l02X_rms vs run
χ² / ndf 7008 / 45
p0 1.029e+04 ± 10.84
14000
13000
12000
11000
10000
9000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

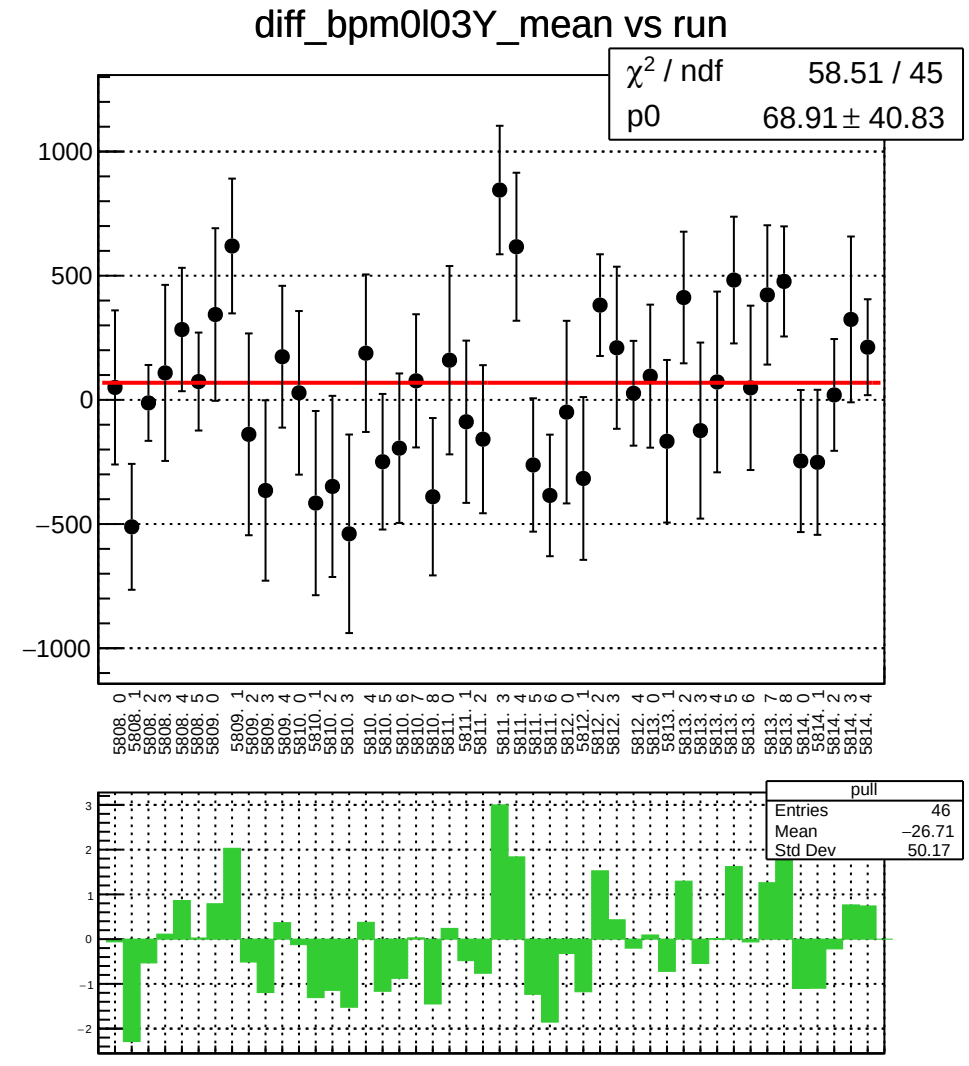

diff_bpm0l02Y_mean vs run
χ² / ndf 58.23 / 45
p0 −5.635 ± 8.257
200
100
0
−100
−200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 217.1
Std Dev 211.8
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009111
Std Dev 1.125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

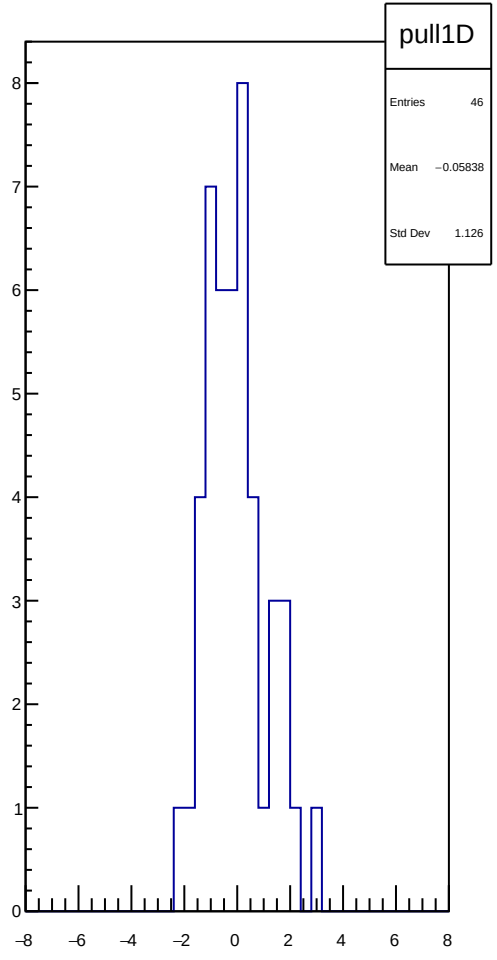

diff_bpm0l02Y_rms vs run
χ² / ndf 4.277e+04 / 45
p0 5429 ± 5.838
11000
10000
9000
8000
7000
6000
5000
4000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

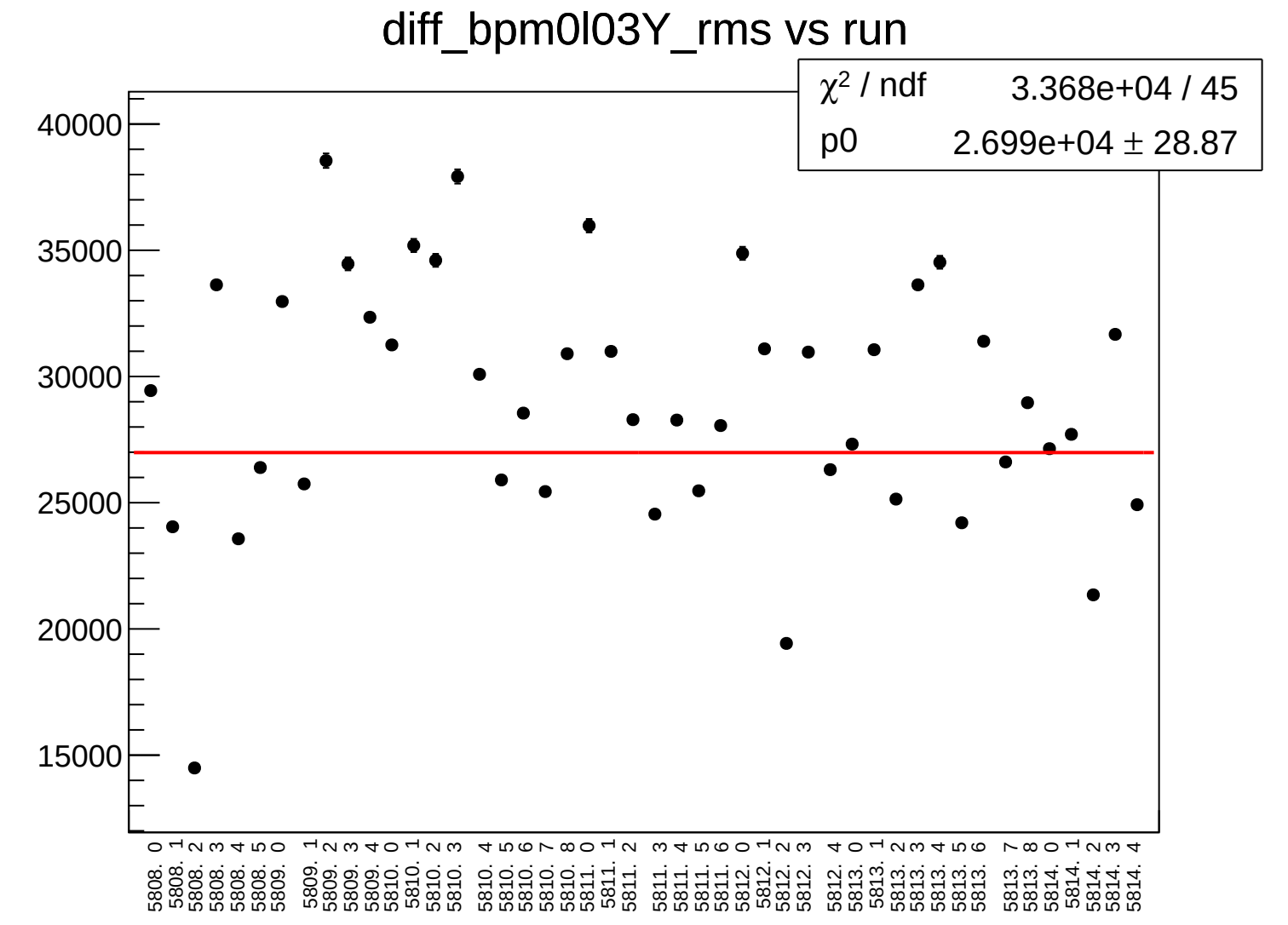

diff_bpm0l03X_mean vs run
χ^2 / ndf 61.68 / 45
p0 63.62 ± 41.37
1000
500
0
−500
−1000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 5
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −26.69
Std Dev 49.38
3
2
1
0
−1
−2

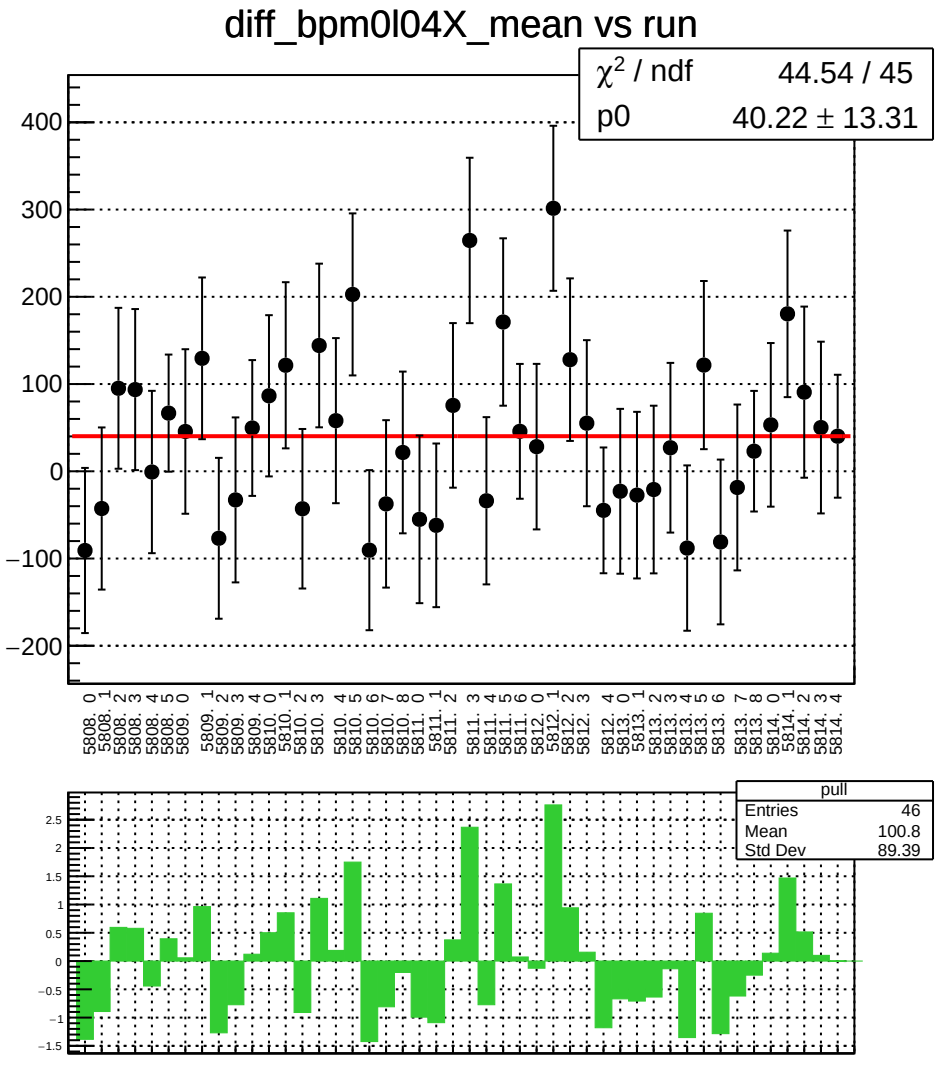

pull1D
Entries 46
Mean −0.06363
Std Dev 1.156
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

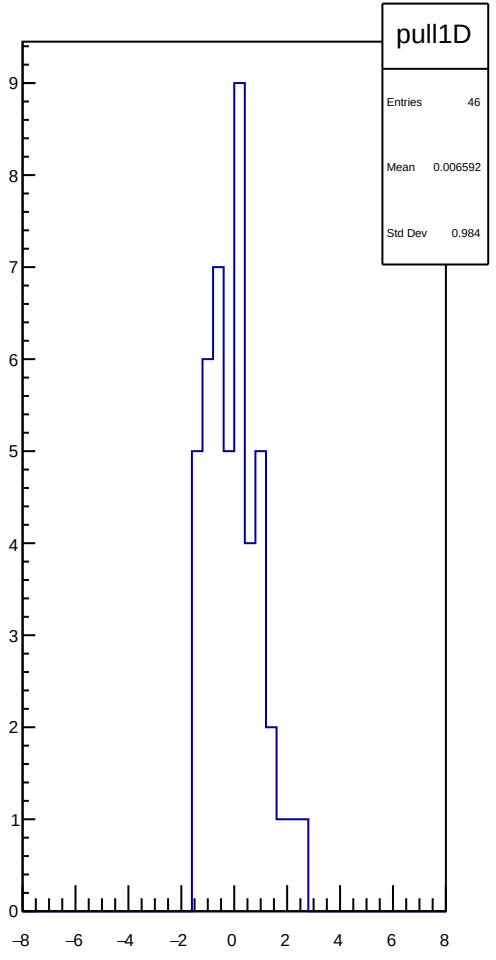

diff_bpm0l03X_rms vs run
χ² / ndf 3.133e+04 / 45
p0 2.738e+04 ± 29.25
40000
35000
30000
25000
20000
15000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

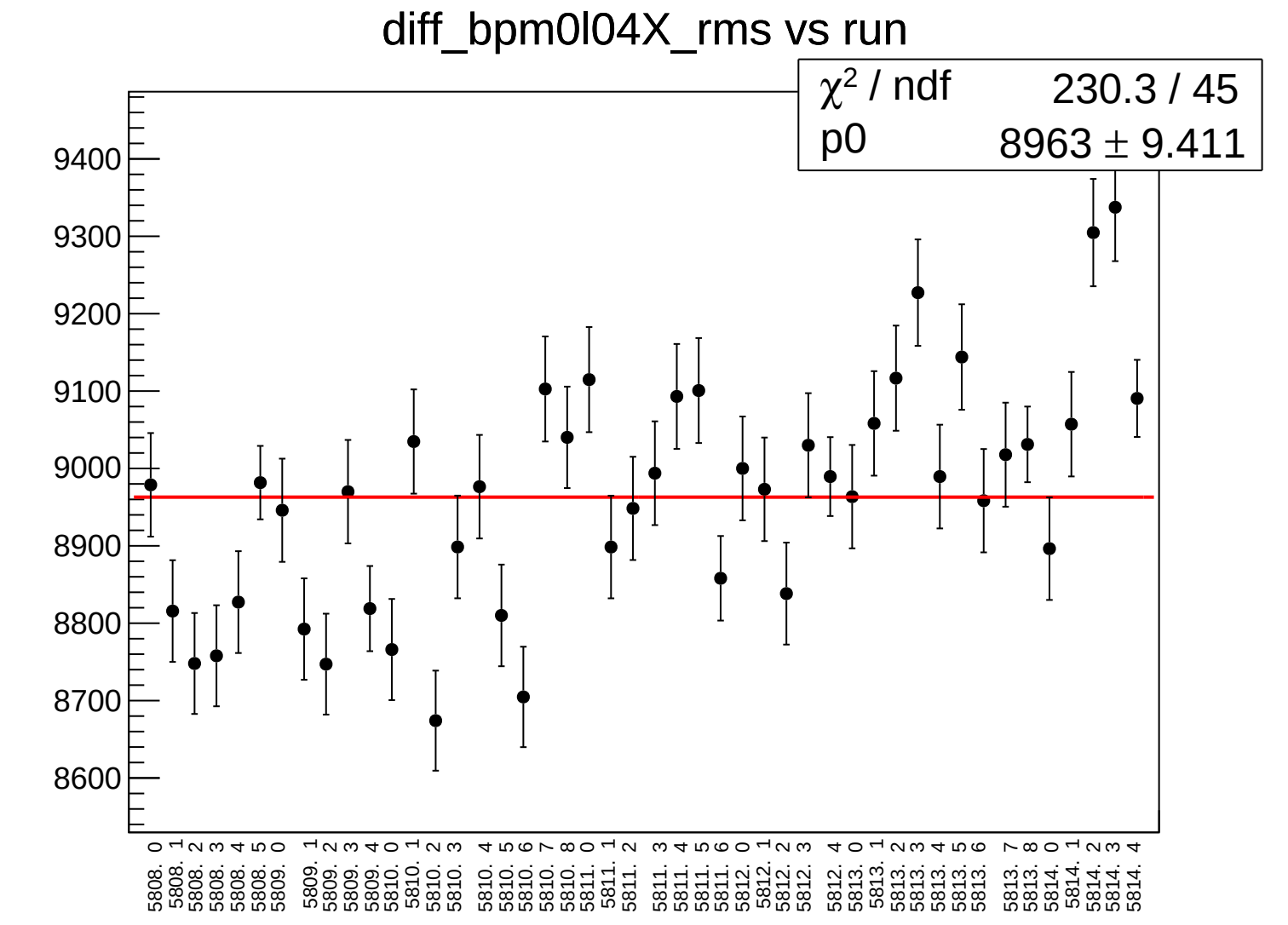

diff_bpm0l03Y_mean vs run
χ^2 / ndf 58.51 / 45
p0 68.91 ± 40.83
1000
500
0
−500
−1000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −26.71
Std Dev 50.17
3
2
1
0
−1
−2

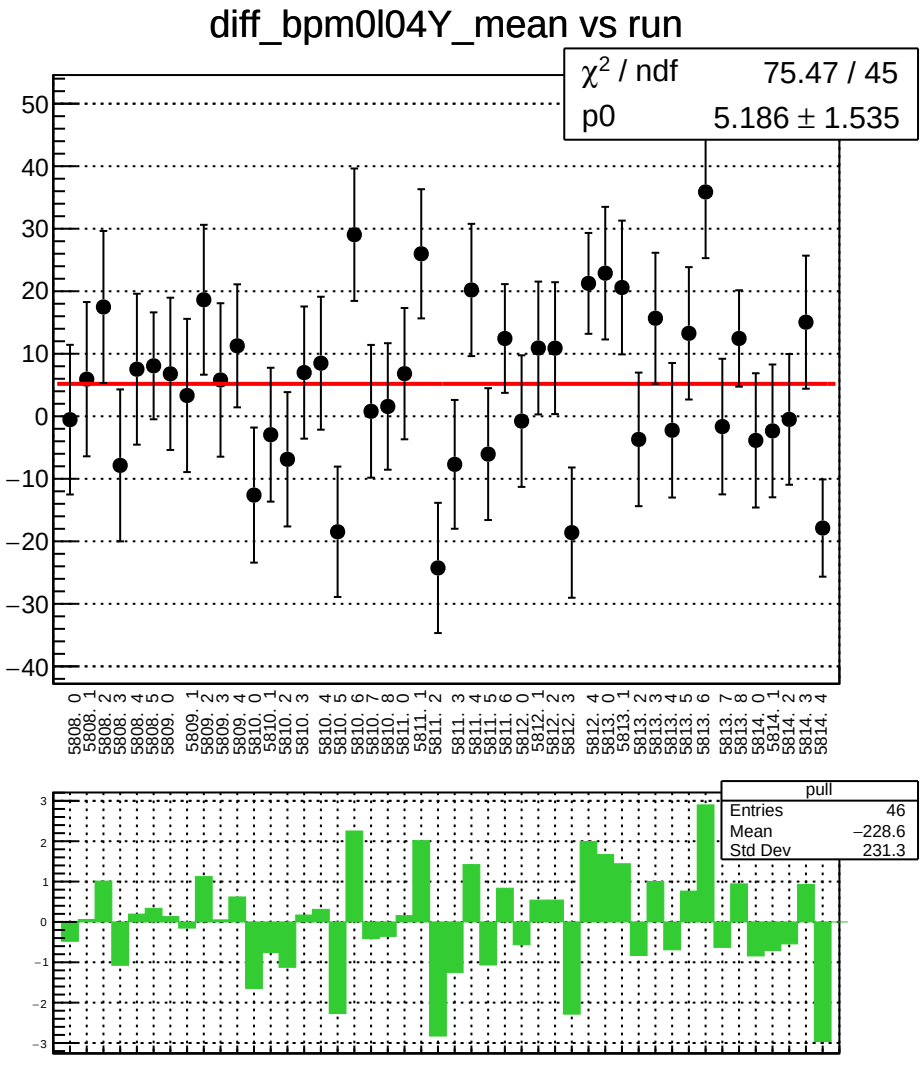

pull1D
Entries 46
Mean −0.05838
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

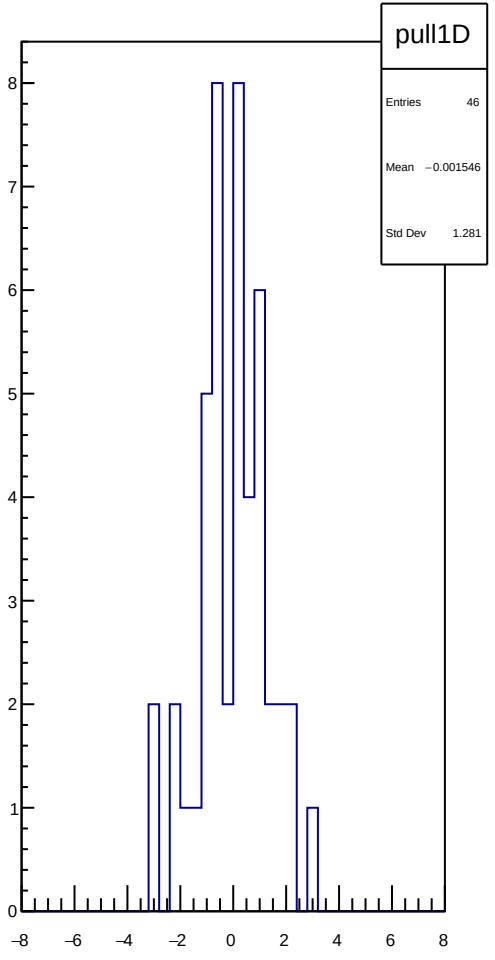

diff_bpm0l03Y_rms vs run
χ² / ndf 3.368e+04 / 45
p0 2.699e+04 ± 28.87
40000
35000
30000
25000
20000
15000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

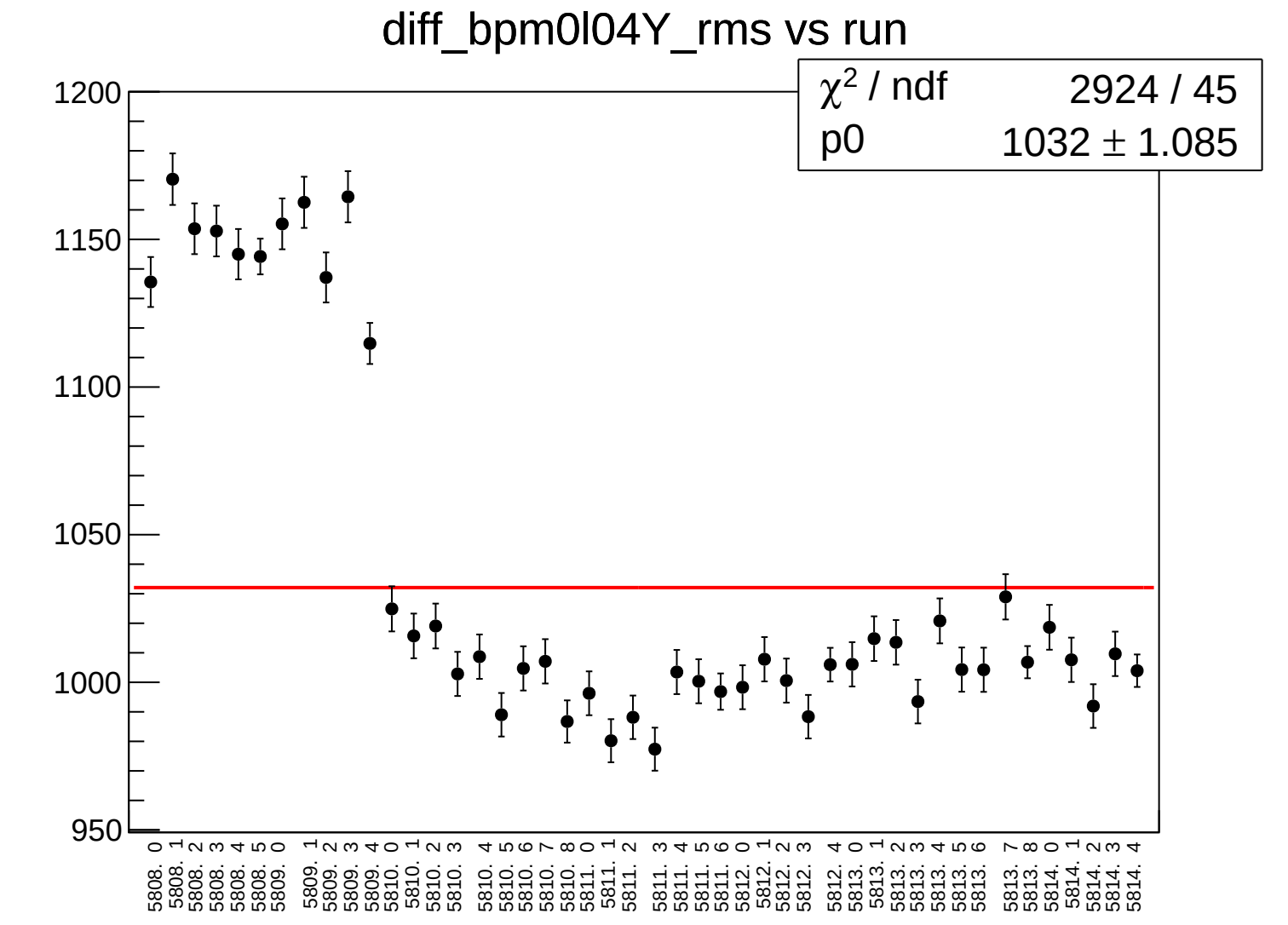

diff_bpm0l04X_mean vs run
χ^2 / ndf 44.54 / 45
p0 40.22 ± 13.31
pull
Entries 46
Mean 100.8
Std Dev 89.39

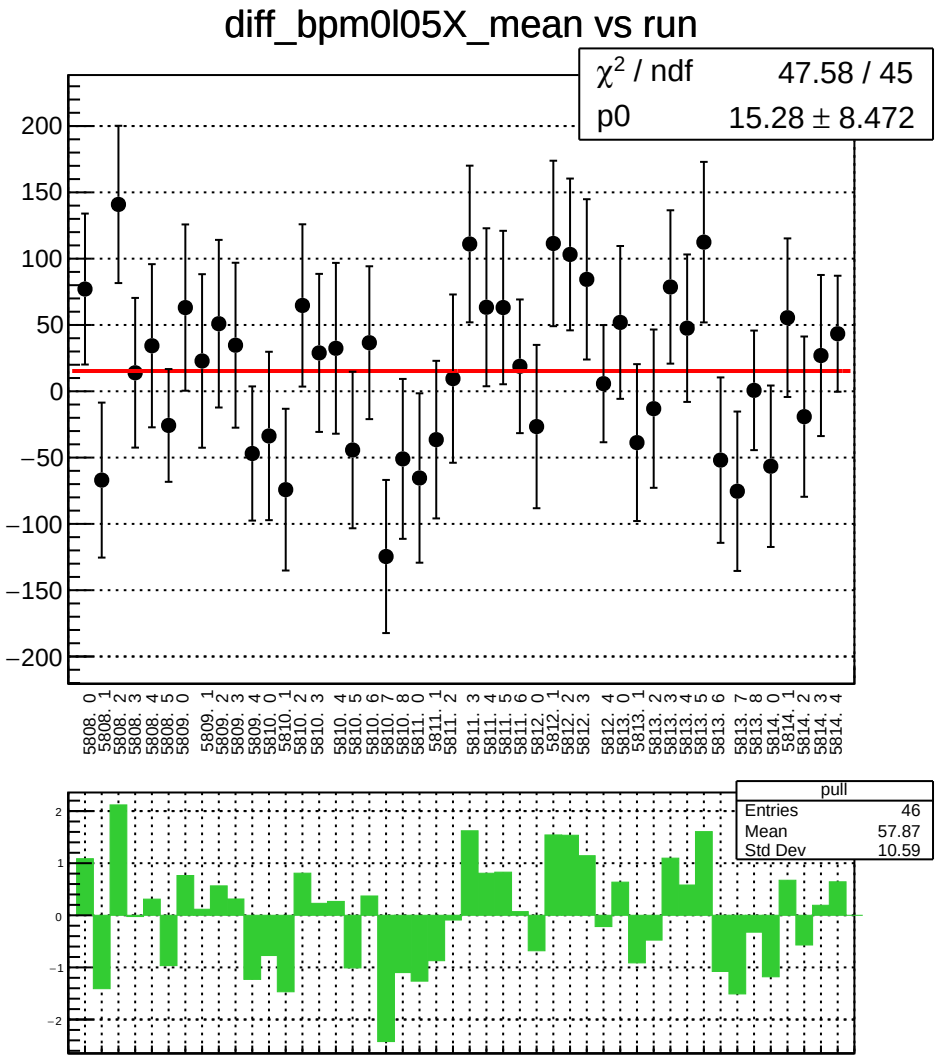

pull1D
Entries 46
Mean 0.006592
Std Dev 0.984

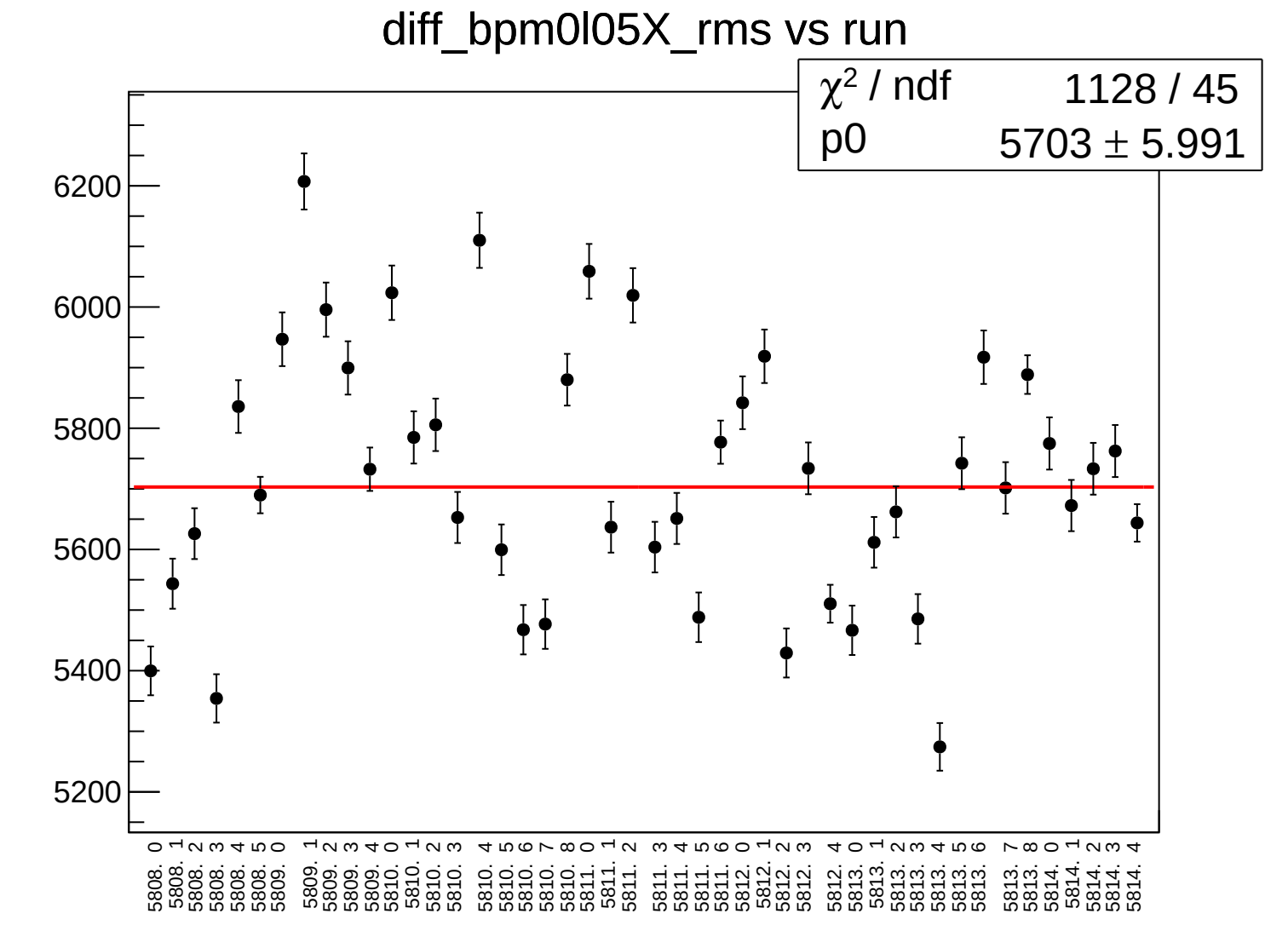

diff_bpm0l04X_rms vs run
χ² / ndf 230.3 / 45
p0 8963 ± 9.411
9400
9300
9200
9100
9000
8900
8800
8700
8600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

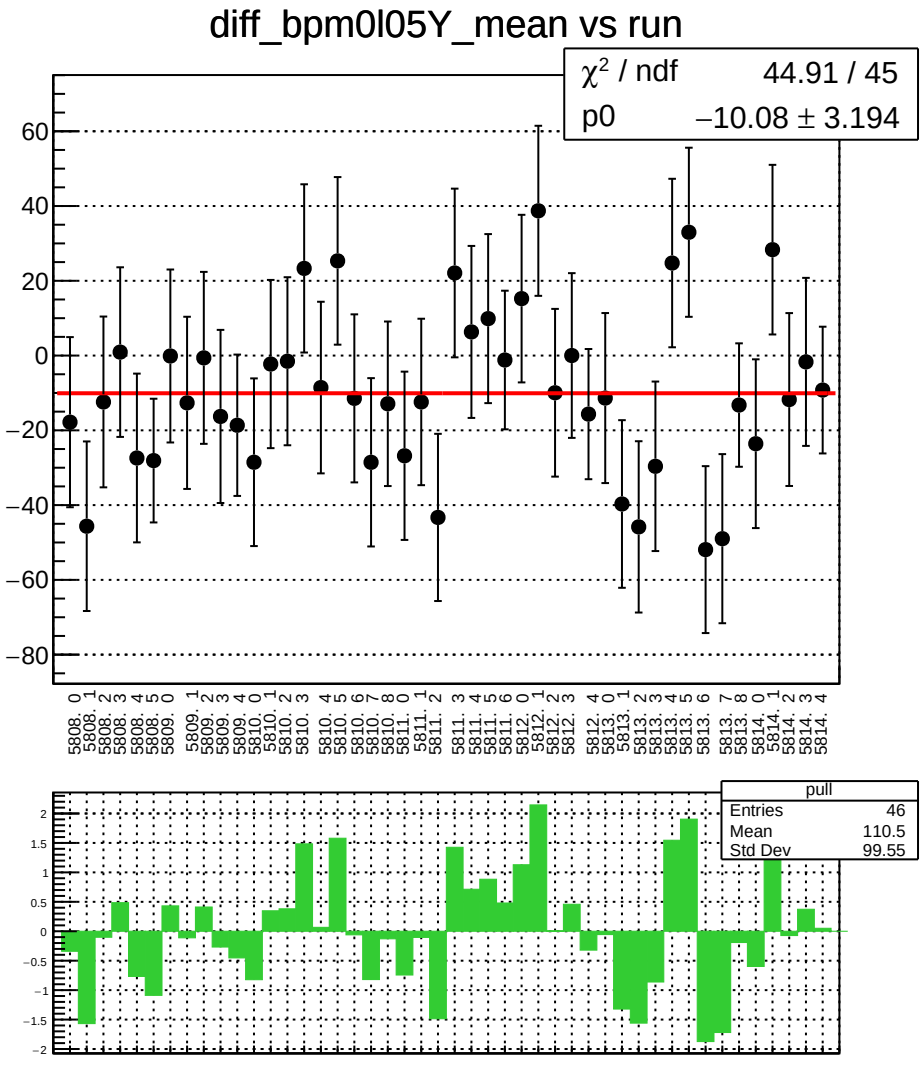

diff_bpm0l04Y_mean vs run
χ² / ndf 75.47 / 45
p0 5.186 ± 1.535
pull
Entries 46
Mean −228.6
Std Dev 231.3

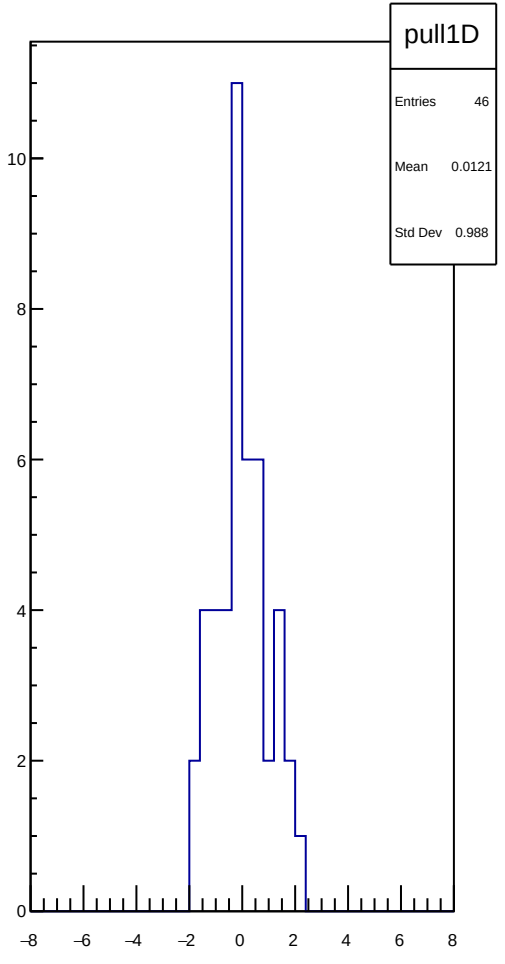

pull1D
Entries 46
Mean −0.001546
Std Dev 1.281

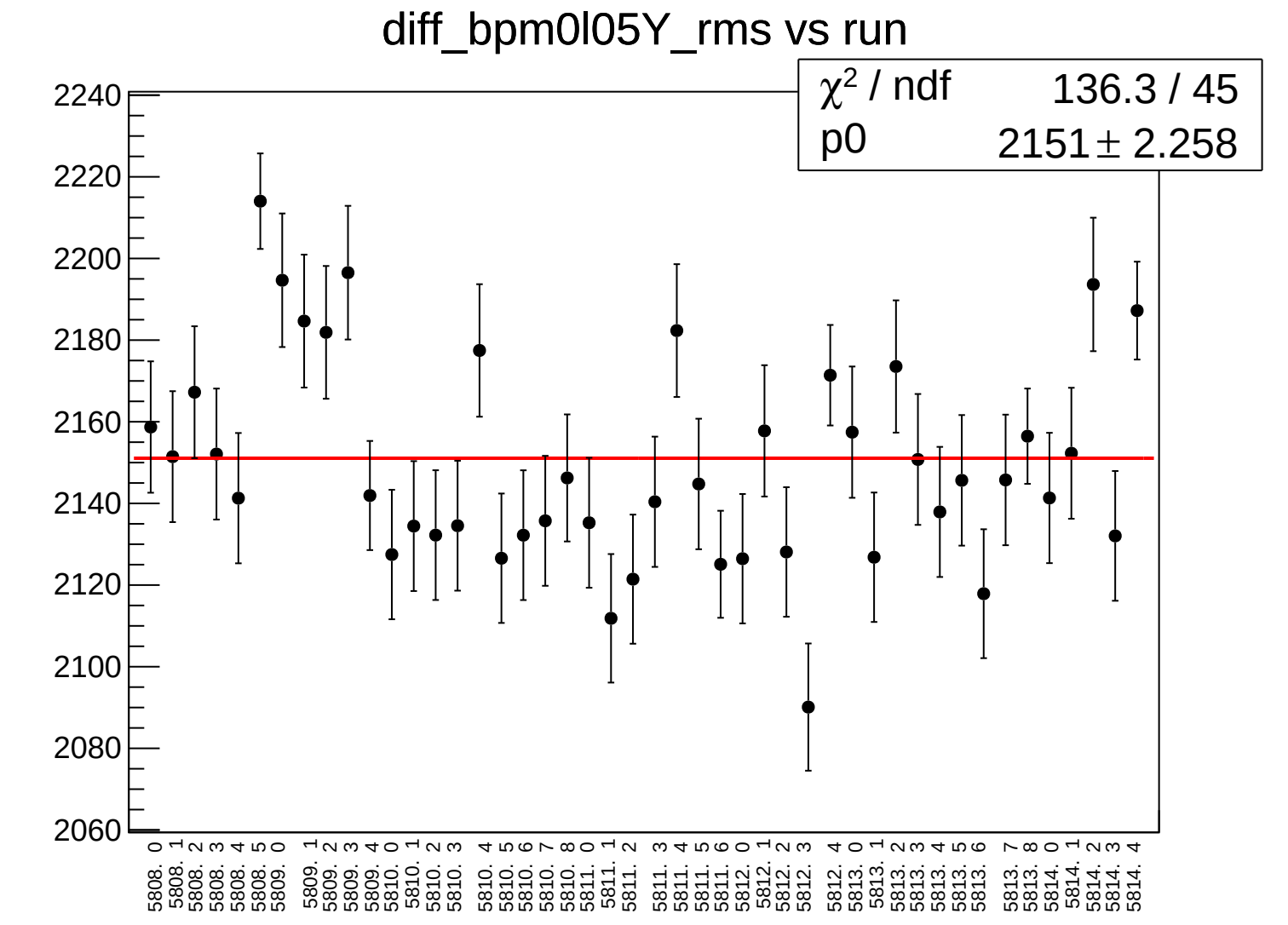

diff_bpm0l04Y_rms vs run
χ² / ndf 2924 / 45
p0 1032 ± 1.085
1200
1150
1100
1050
1000
950
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

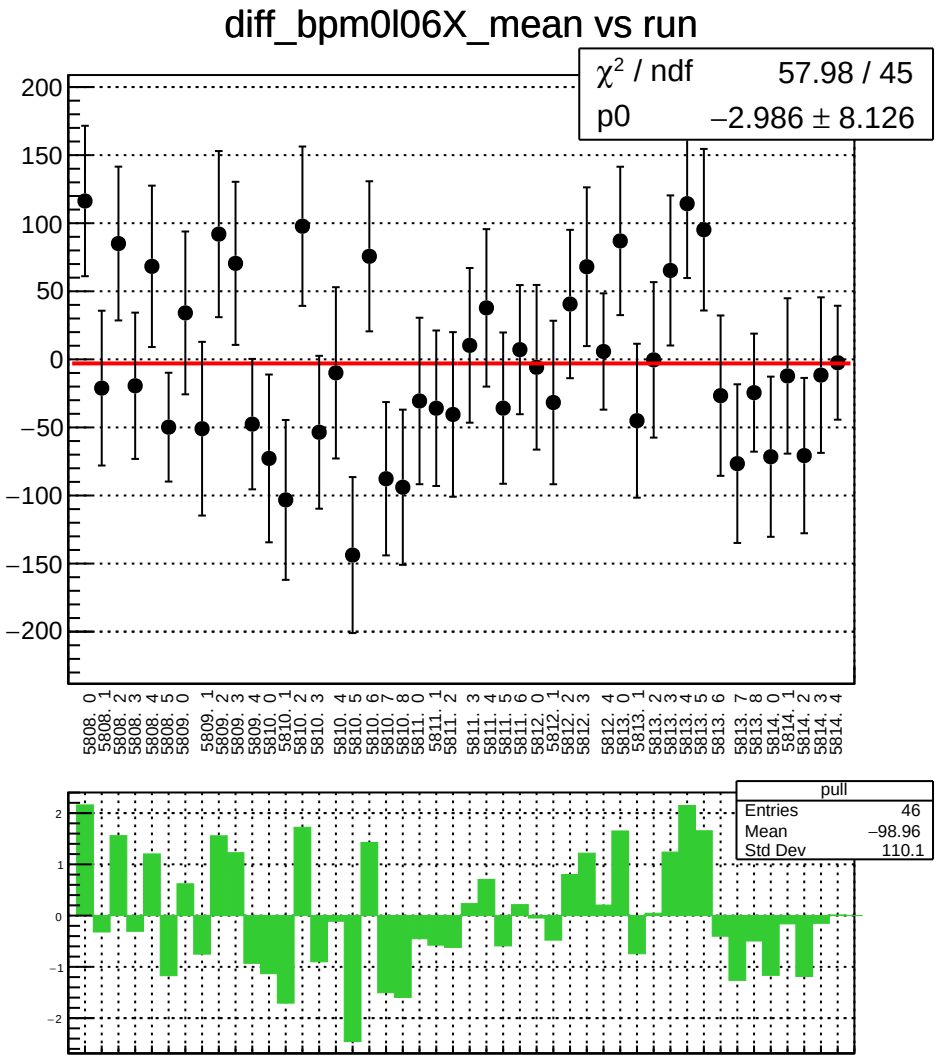

diff_bpm0l05X_mean vs run
χ^2 / ndf 47.58 / 45
p0 15.28 ± 8.472
200
150
100
50
0
−50
−100
−150
−200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 57.87
Std Dev 10.59
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.007659
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

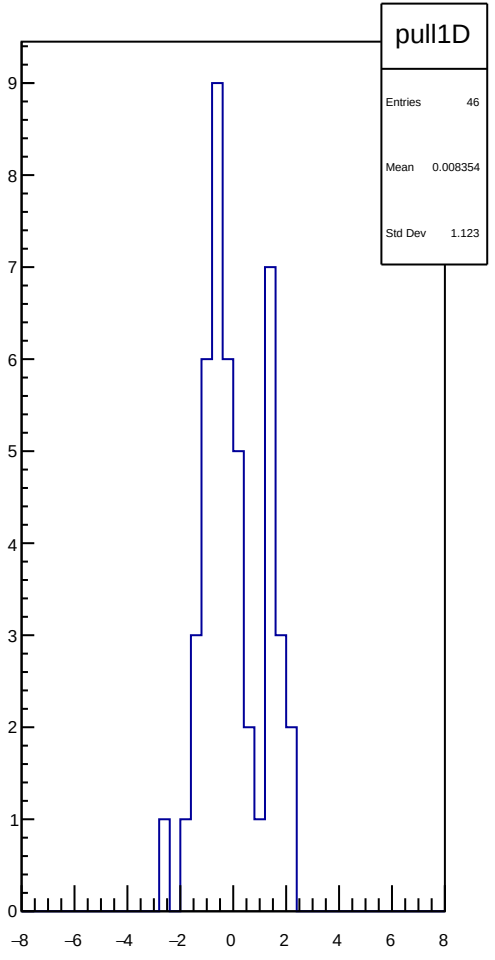

diff_bpm0l05X_rms vs run
χ² / ndf 1128 / 45
p0 5703 ± 5.991
6200
6000
5800
5600
5400
5200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

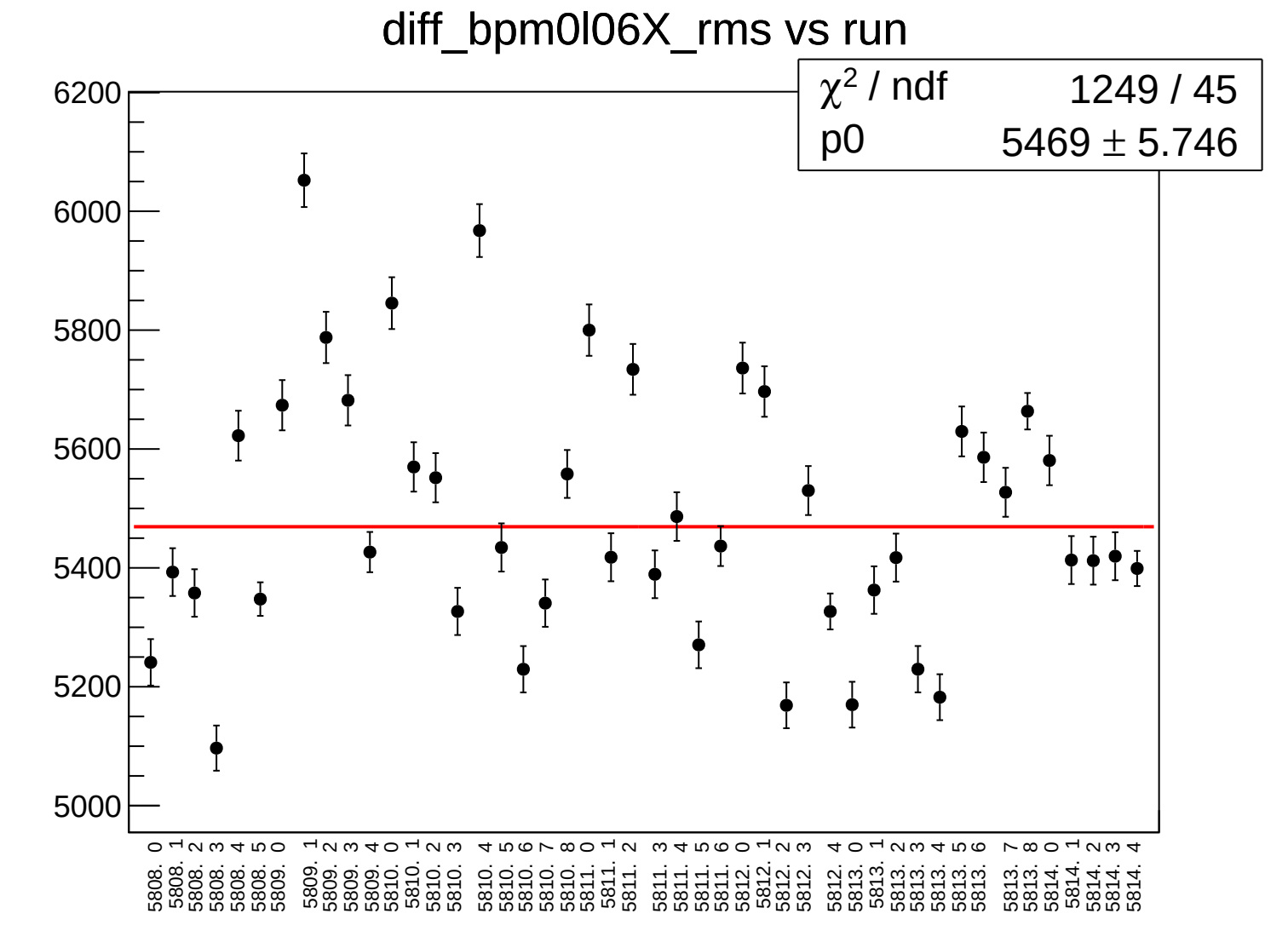

diff_bpm0l05Y_mean vs run
χ² / ndf 44.91 / 45
p0 −10.08 ± 3.194
pull
Entries 46
Mean 110.5
Std Dev 99.55

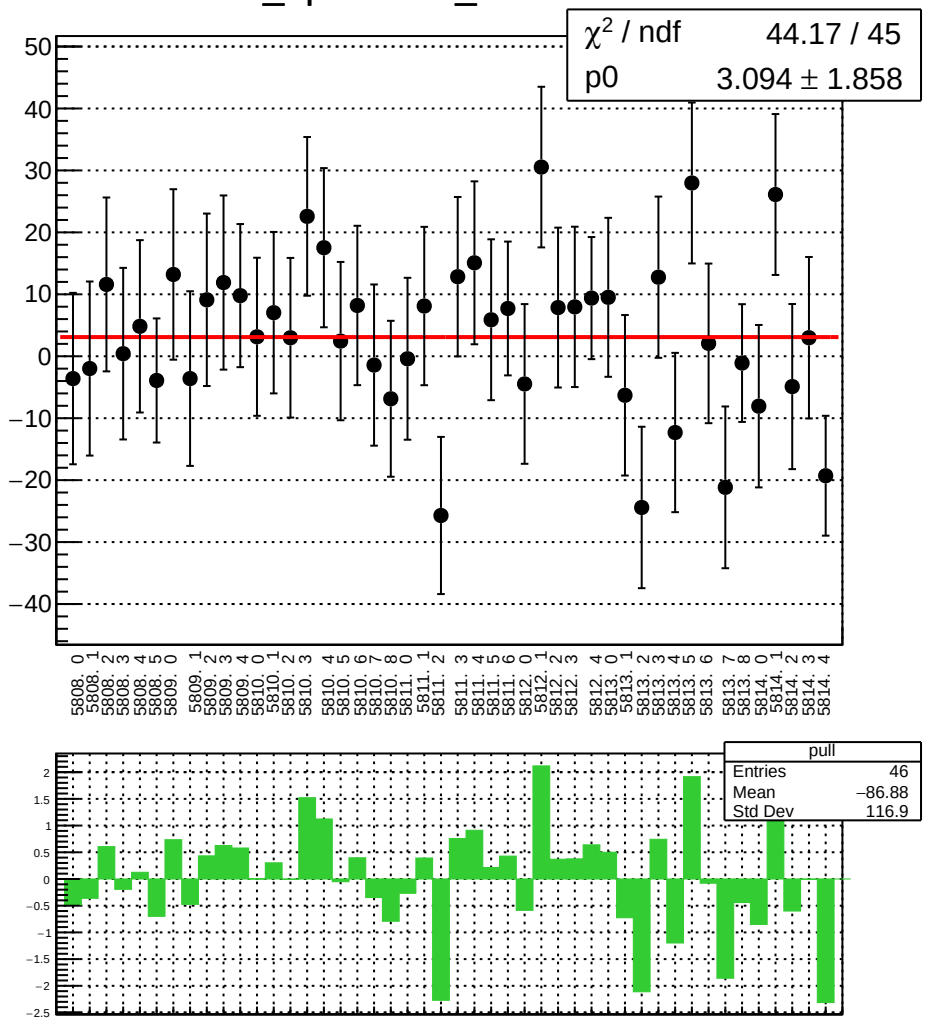

pull1D
Entries 46
Mean 0.0121
Std Dev 0.988

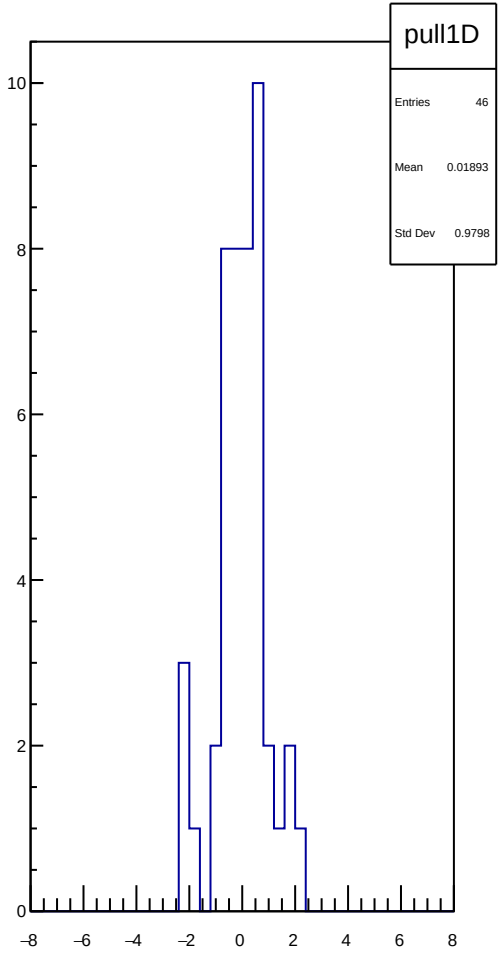

diff_bpm0l05Y_rms vs run
χ² / ndf 136.3 / 45
p0 2151 ± 2.258
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

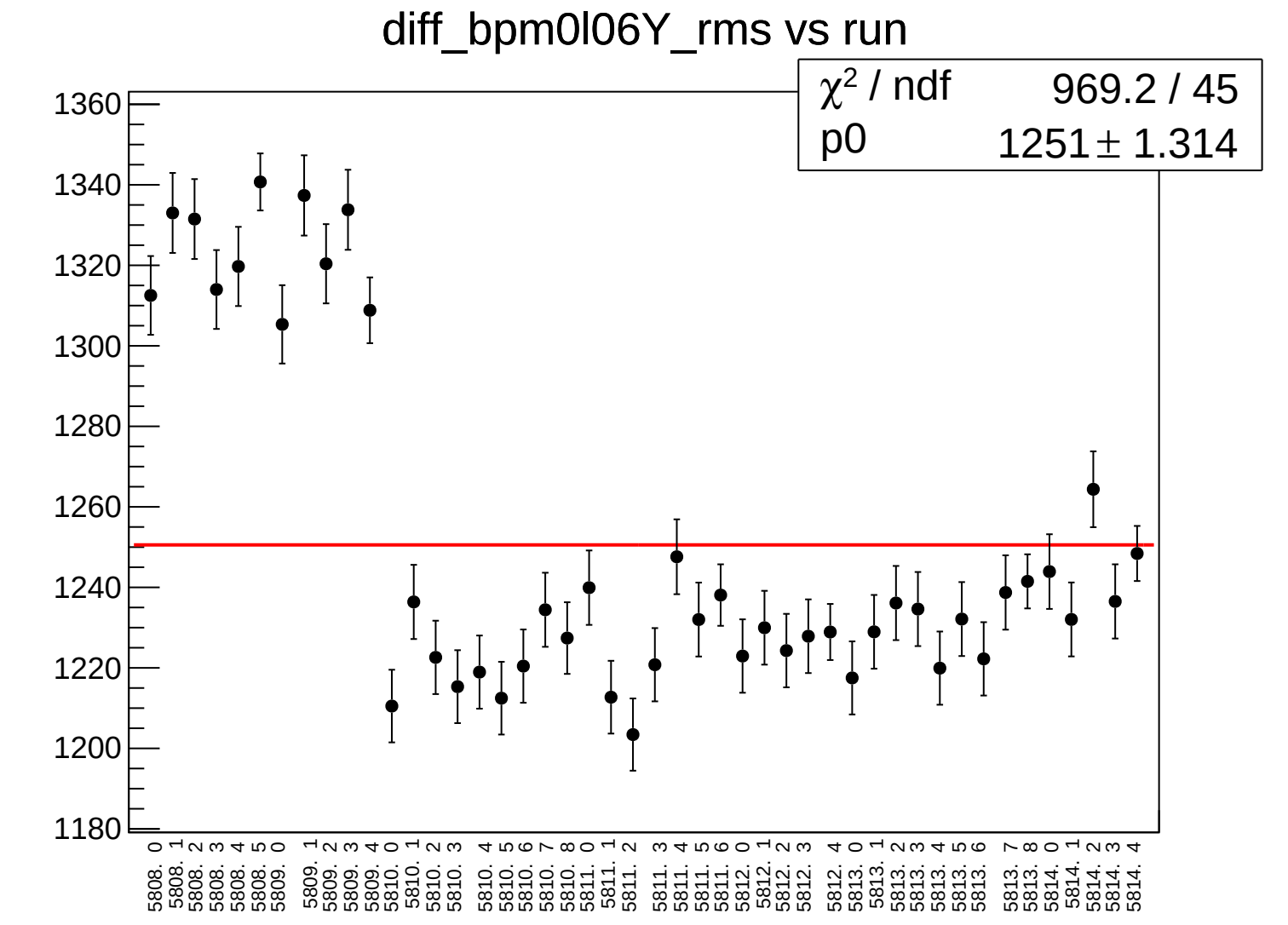

diff_bpm0l06X_mean vs run
χ² / ndf 57.98 / 45
p0 −2.986 ± 8.126
pull
Entries 46
Mean −98.96
Std Dev 110.1

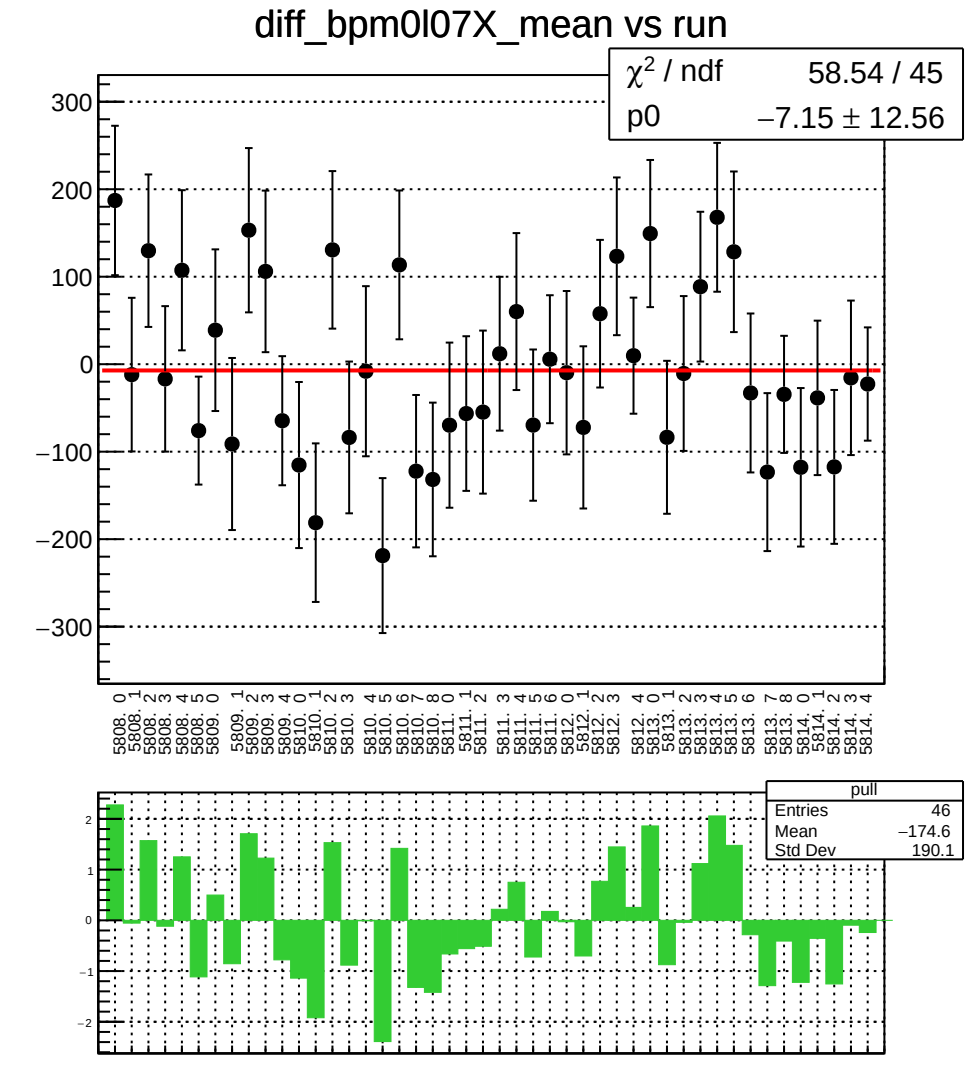

pull1D
Entries 46
Mean 0.008354
Std Dev 1.123

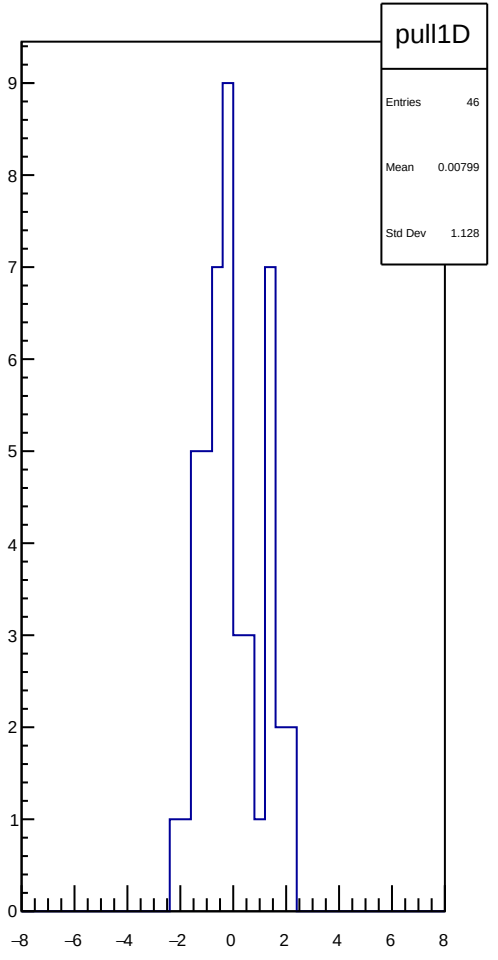

diff_bpm0l06X_rms vs run
χ² / ndf 1249 / 45
p0 5469 ± 5.746
6200
6000
5800
5600
5400
5200
5000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

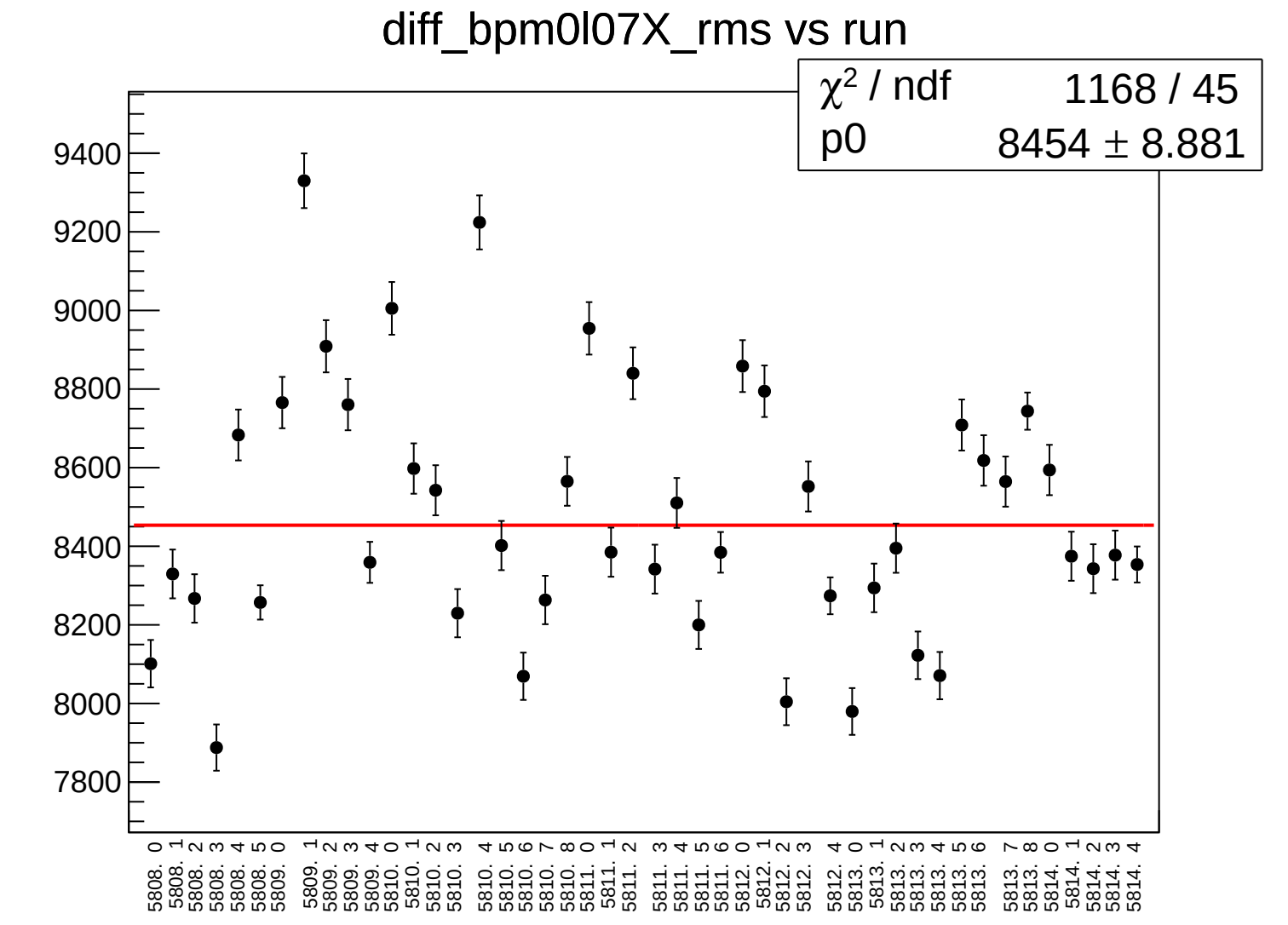

diff_bpm0l06Y_mean vs run
χ² / ndf 44.17 / 45
p0 3.094 ± 1.858
pull
Entries 46
Mean −86.88
Std Dev 116.9

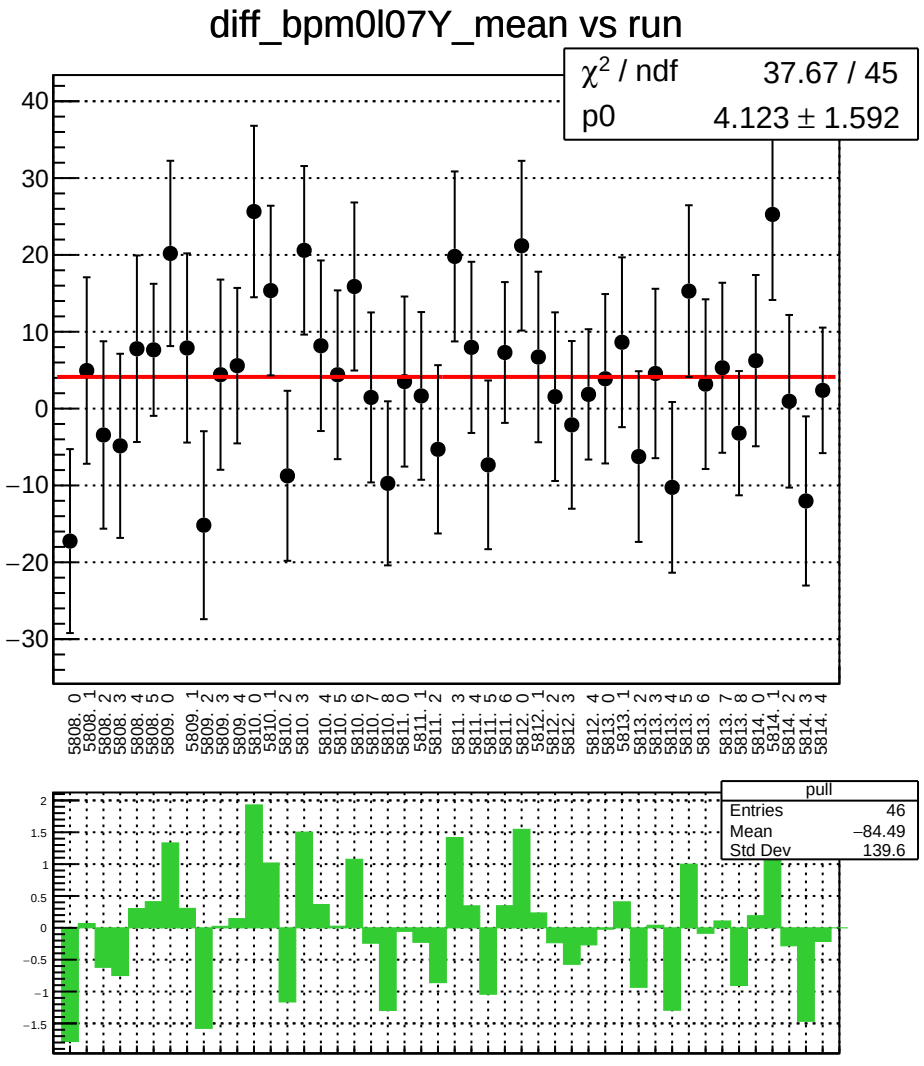

pull1D
Entries 46
Mean 0.01893
Std Dev 0.9798

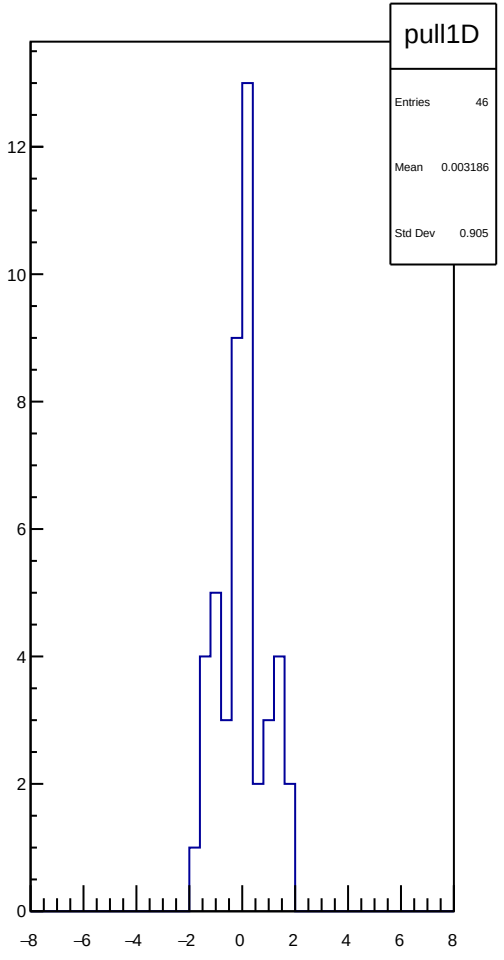

diff_bpm0l06Y_rms vs run
χ² / ndf 969.2 / 45
p0 1251 ± 1.314
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

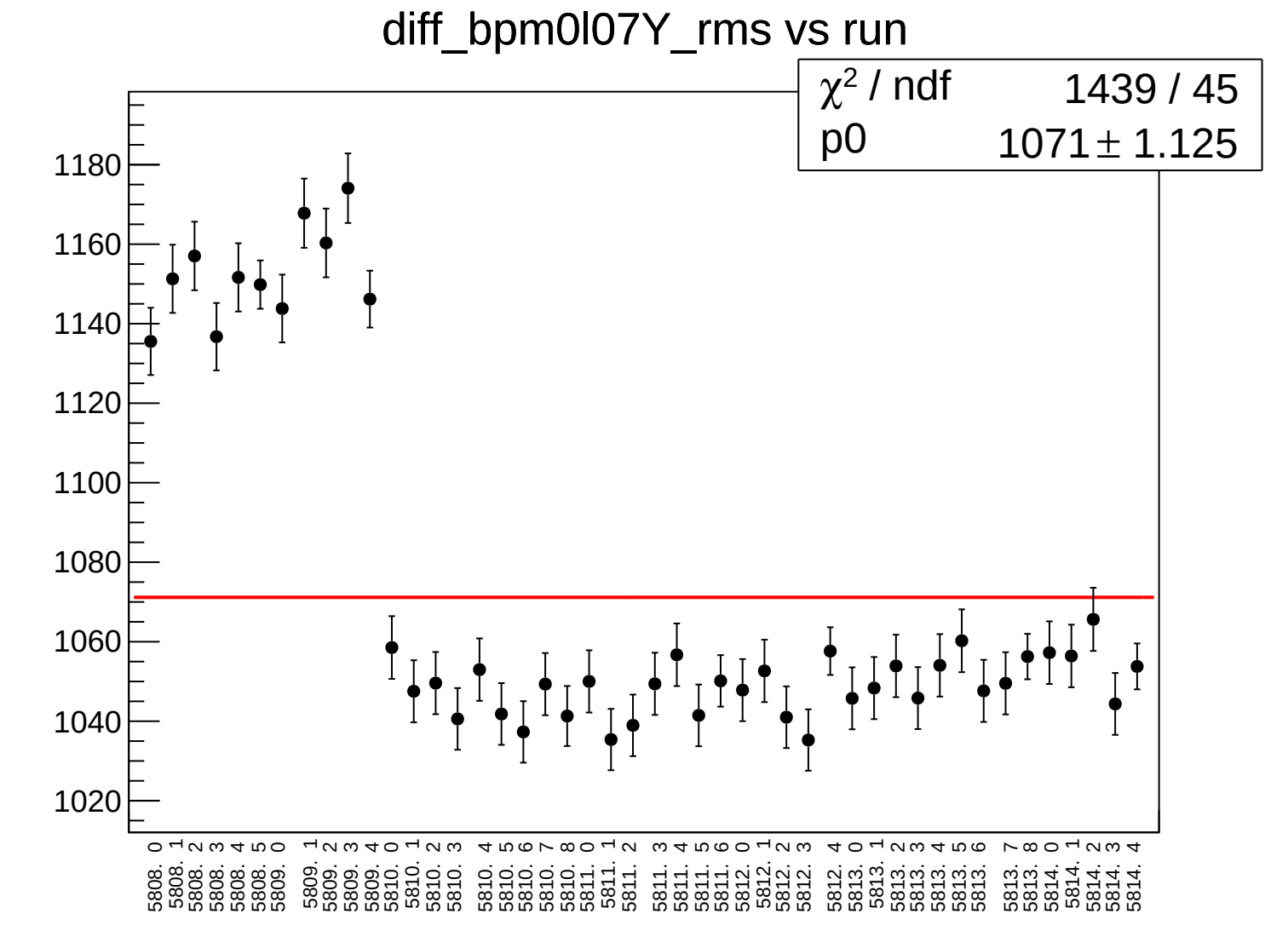

diff_bpm0l07X_mean vs run
χ² / ndf 58.54 / 45
p0 −7.15 ± 12.56
300
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −174.6
Std Dev 190.1
2
1
0
−1
−2

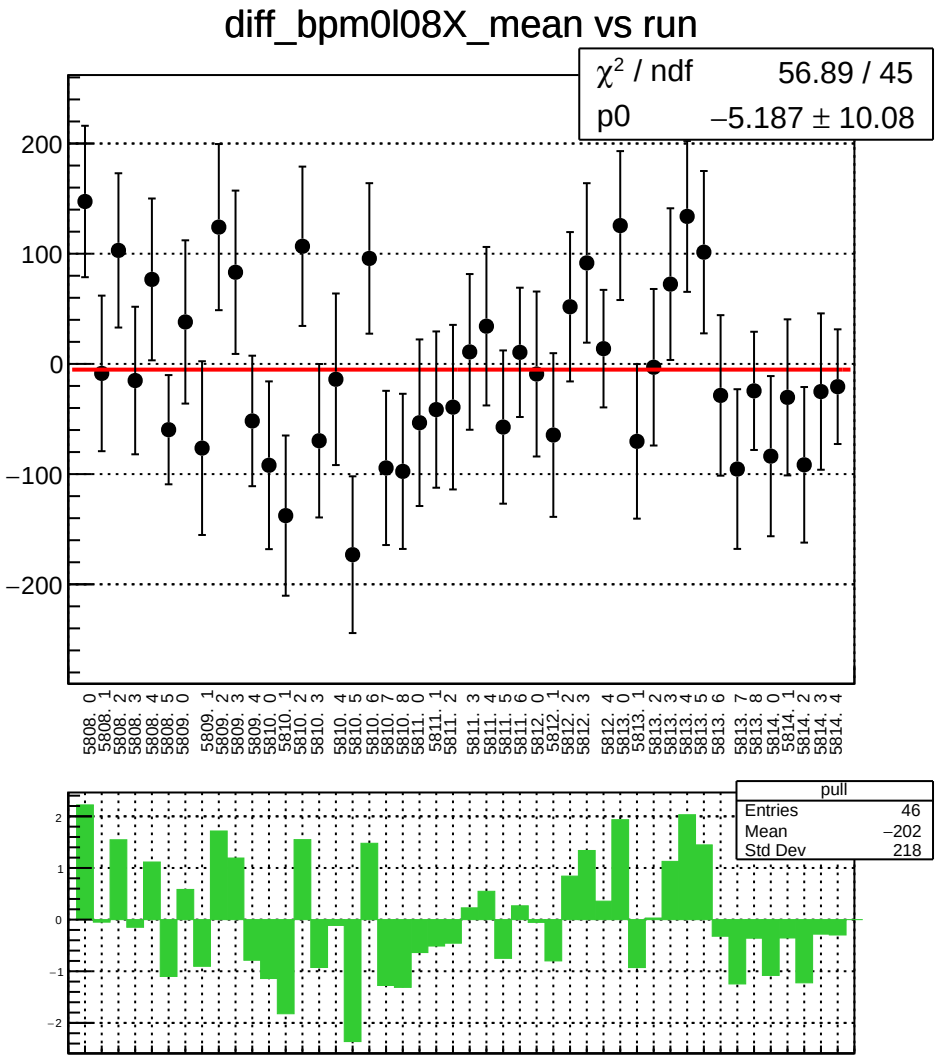

pull1D
Entries 46
Mean 0.00799
Std Dev 1.128
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

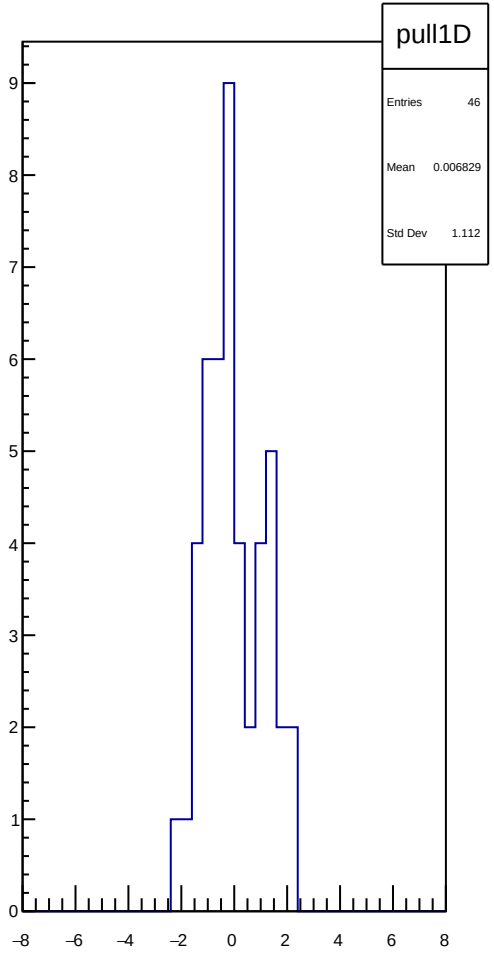

diff_bpm0l07X_rms vs run
χ² / ndf 1168 / 45
p0 8454 ± 8.881
9400
9200
9000
8800
8600
8400
8200
8000
7800
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

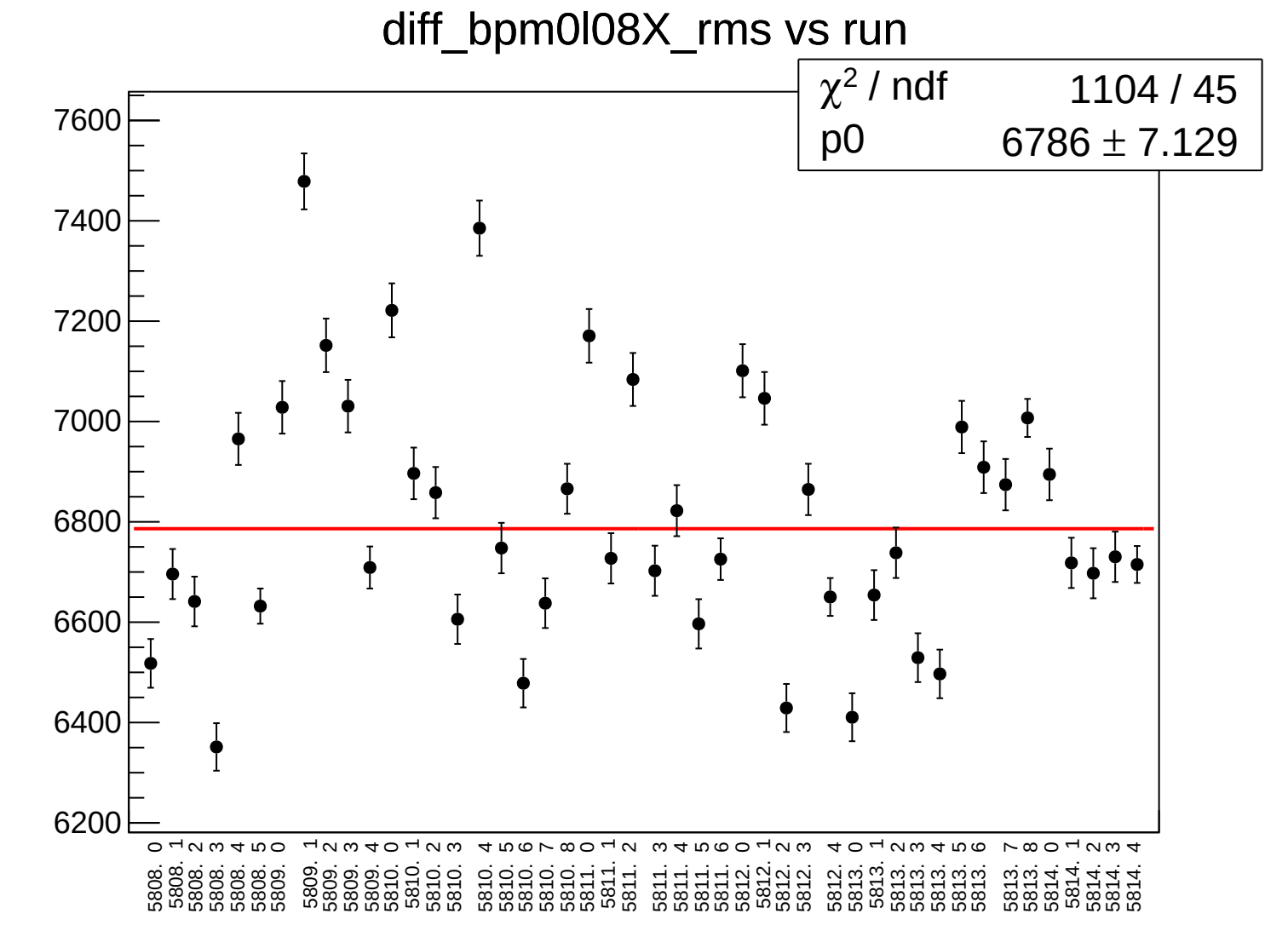

diff_bpm0l07Y_mean vs run
χ² / ndf 37.67 / 45
p0 4.123 ± 1.592
pull
Entries 46
Mean −84.49
Std Dev 139.6

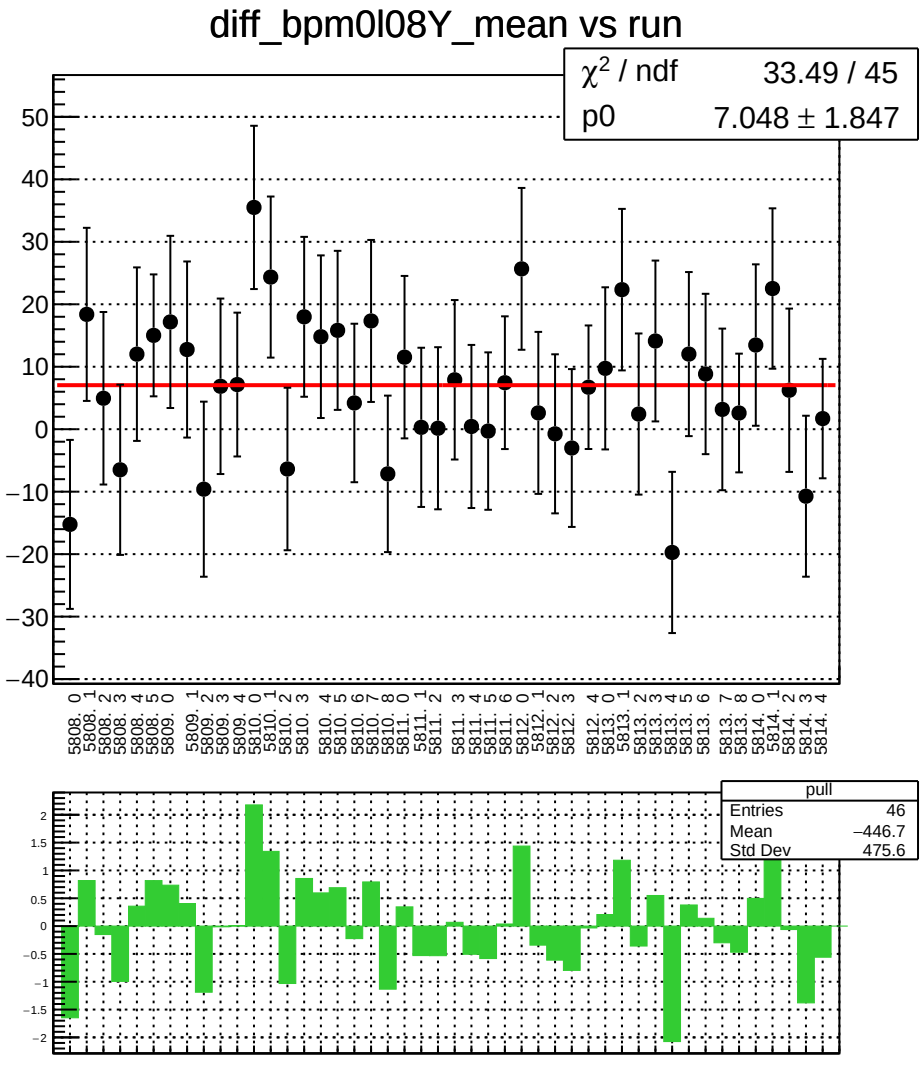

pull1D
Entries 46
Mean 0.003186
Std Dev 0.905

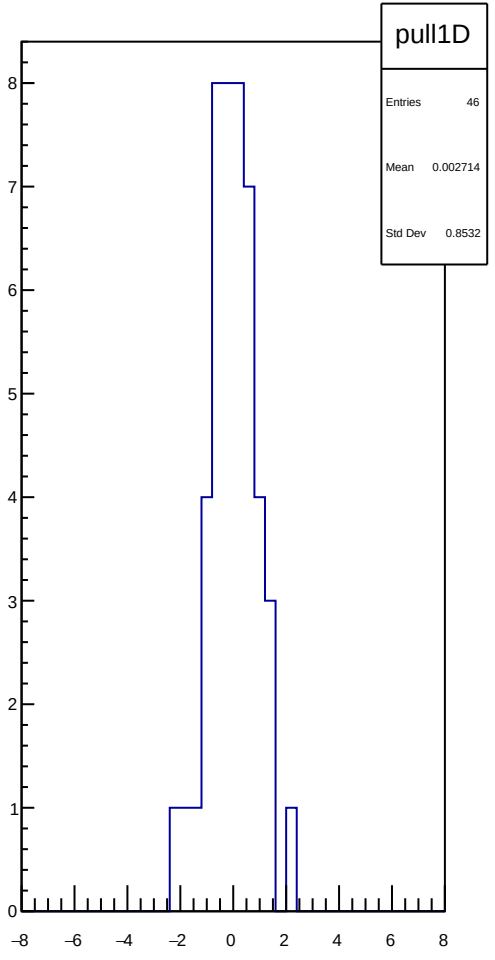

diff_bpm0l07Y_rms vs run
χ² / ndf 1439 / 45
p0 1071 ± 1.125
1180
1160
1140
1120
1100
1080
1060
1040
1020
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

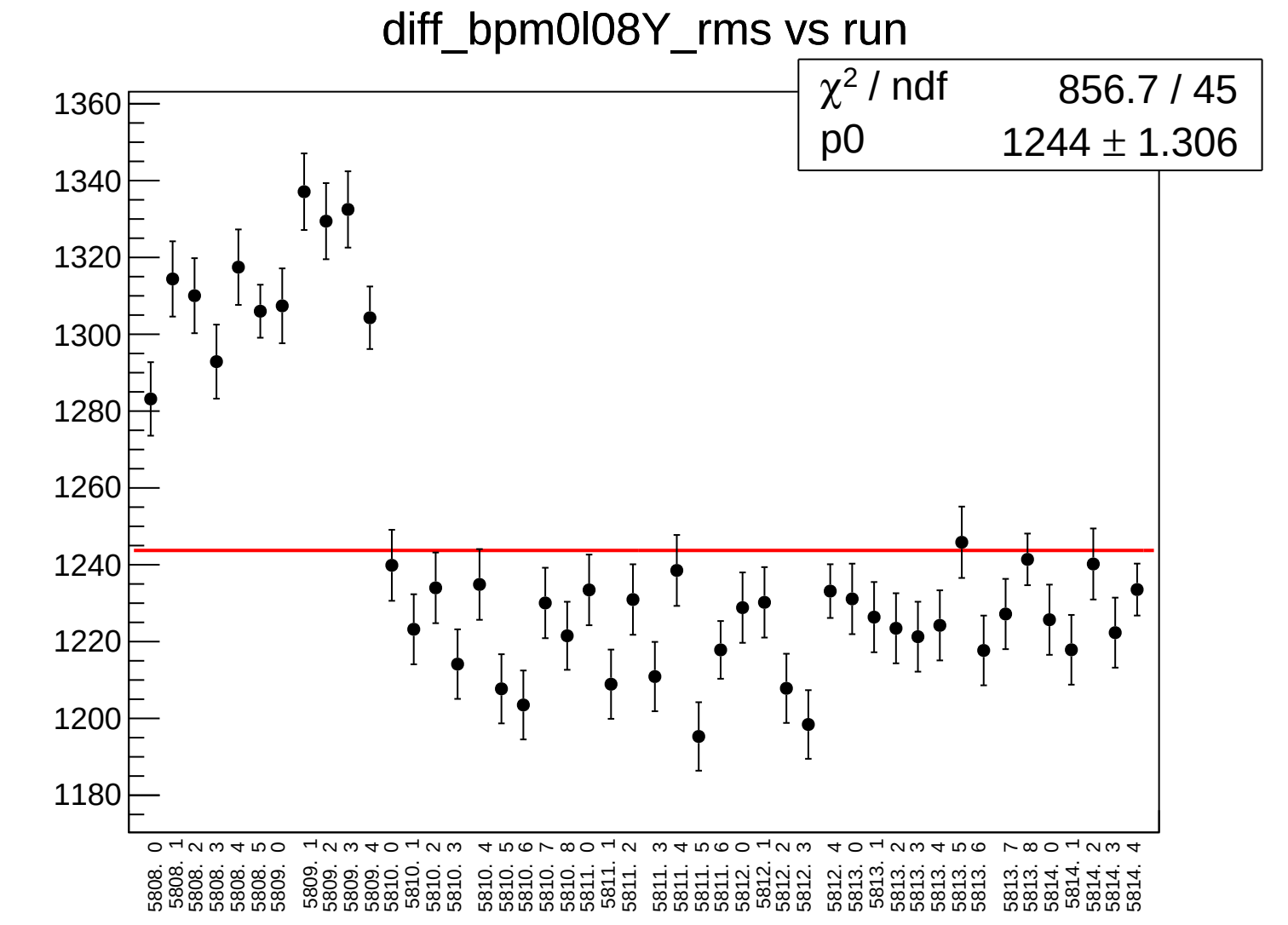

diff_bpm0l08X_mean vs run
χ² / ndf 56.89 / 45
p0 −5.187 ± 10.08
200
100
0
−100
−200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −202
Std Dev 218
2
1
0
−1
−2

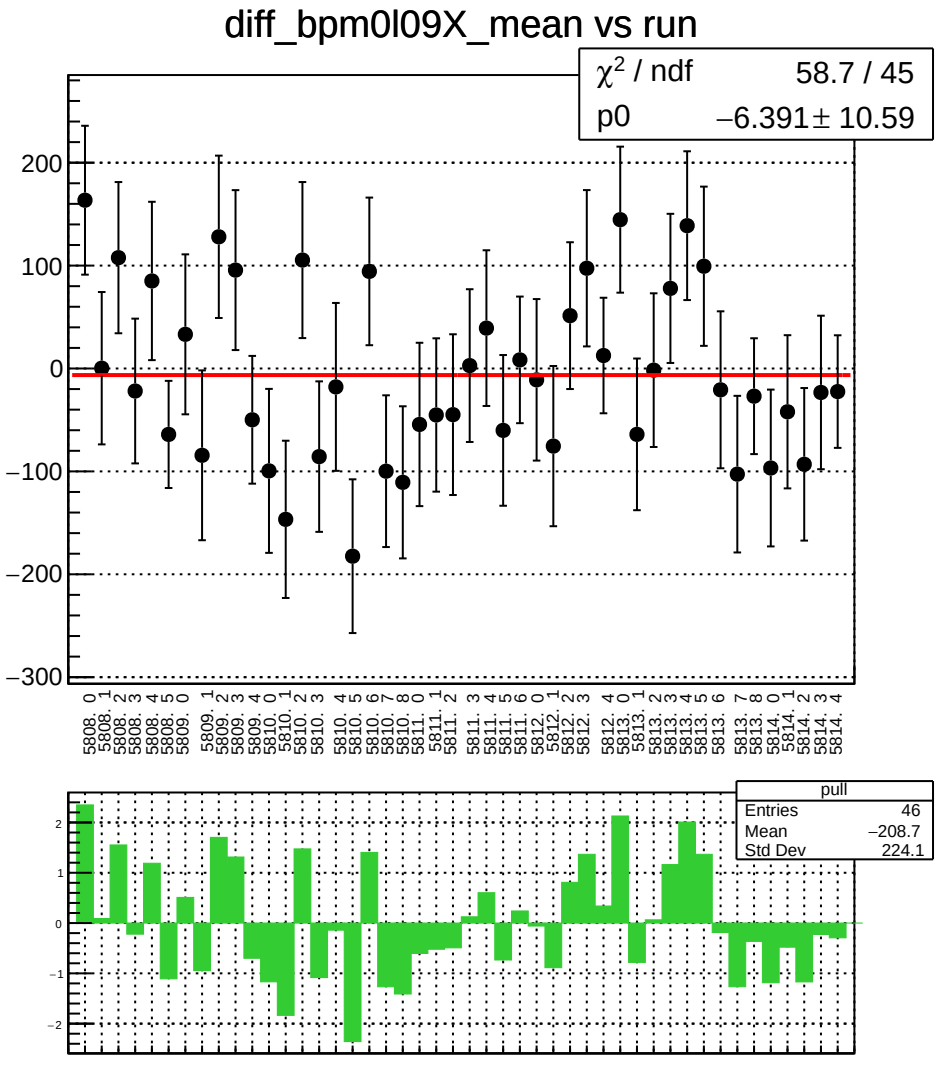

pull1D
Entries 46
Mean 0.006829
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

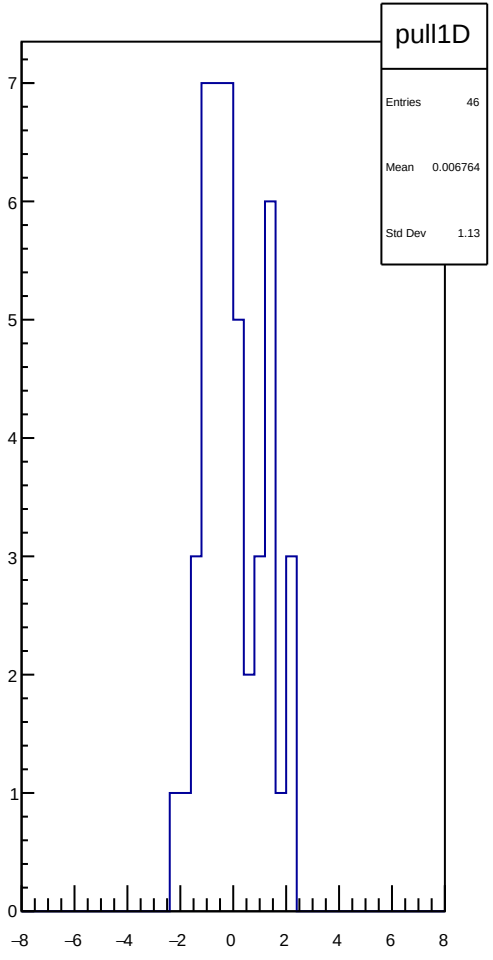

diff_bpm0l08X_rms vs run
χ² / ndf 1104 / 45
p0 6786 ± 7.129
7600
7400
7200
7000
6800
6600
6400
6200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

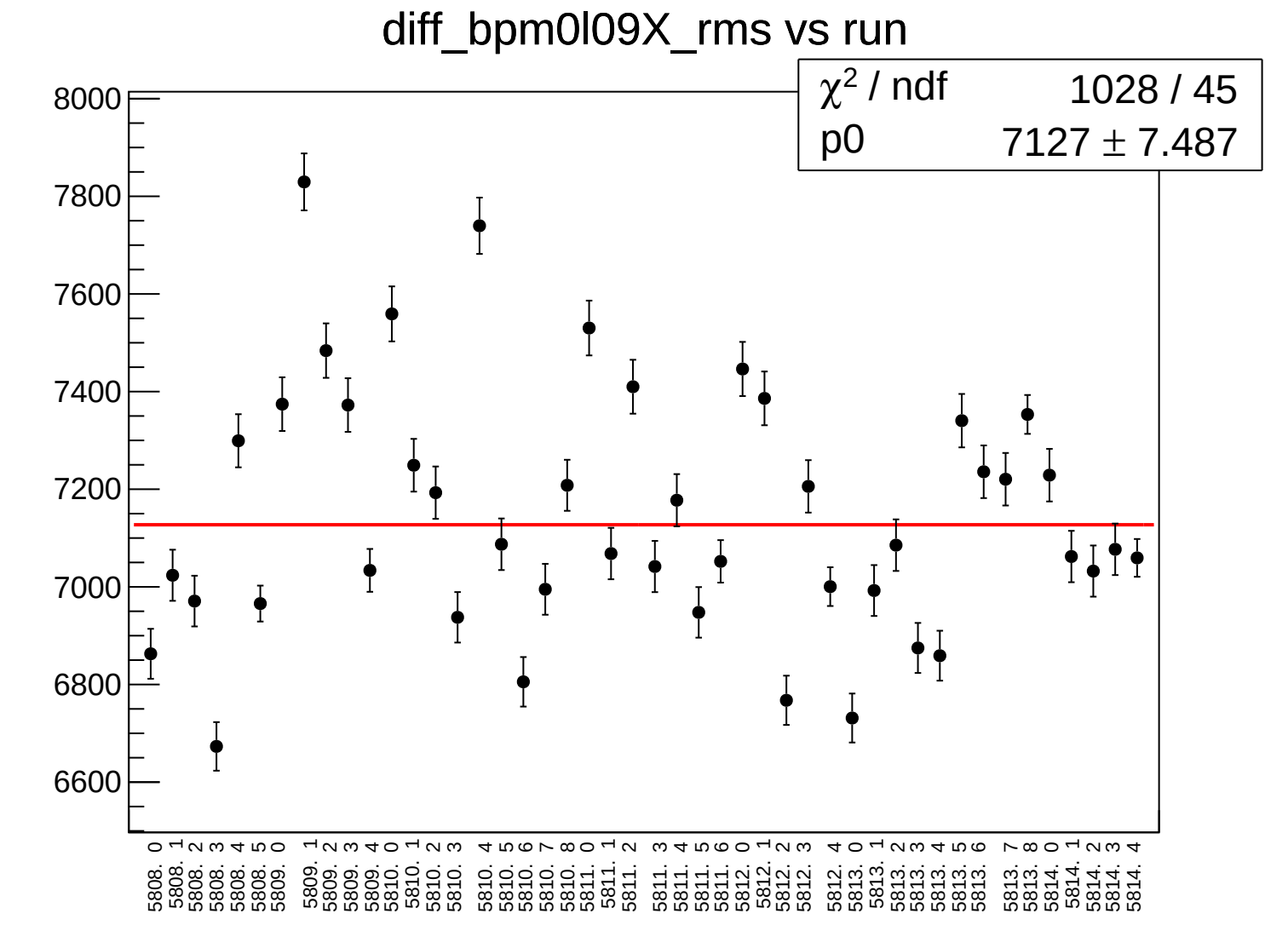

diff_bpm0l08Y_mean vs run
χ² / ndf 33.49 / 45
p0 7.048 ± 1.847
pull
Entries 46
Mean −446.7
Std Dev 475.6

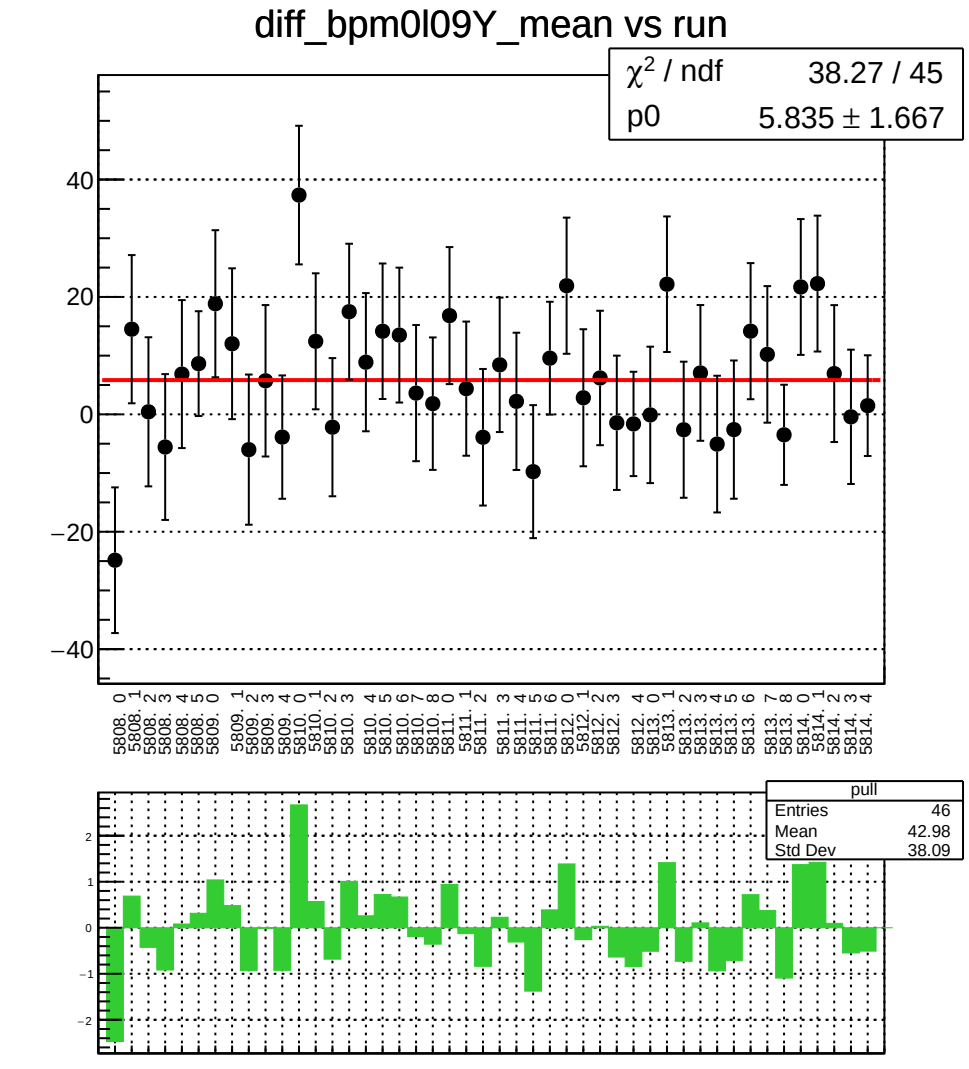

pull1D
Entries 46
Mean 0.002714
Std Dev 0.8532

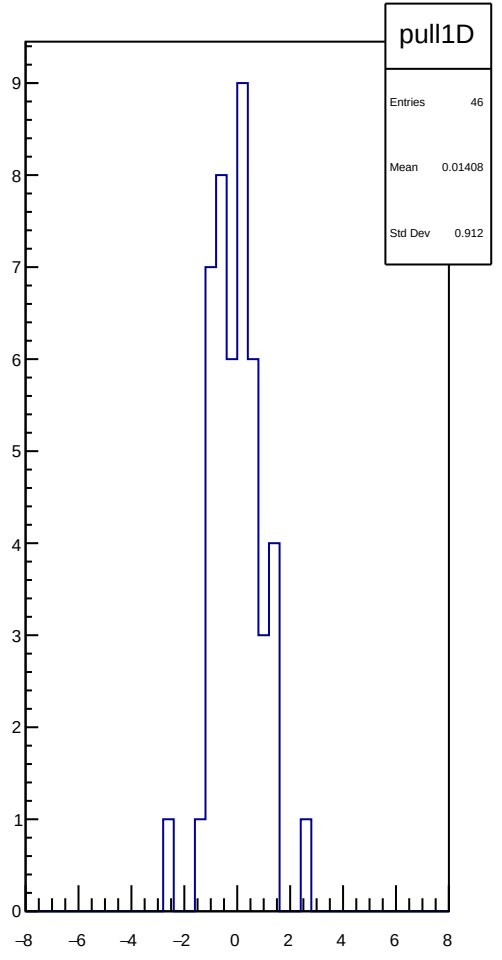

diff_bpm0l08Y_rms vs run
χ² / ndf 856.7 / 45
p0 1244 ± 1.306
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

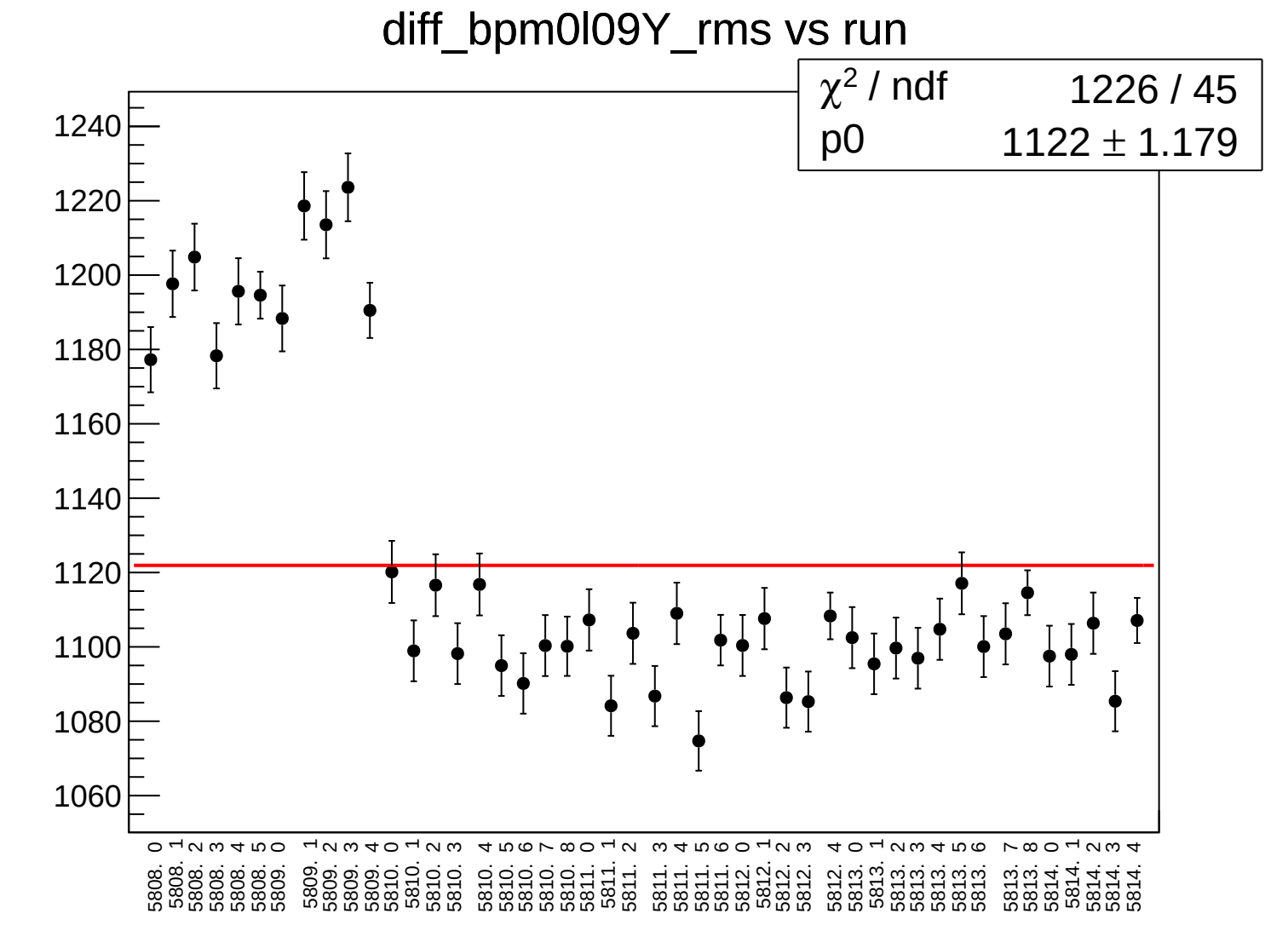

diff_bpm0l09X_mean vs run
χ² / ndf 58.7 / 45
p0 −6.391 ± 10.59
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −208.7
Std Dev 224.1
2
1
0
−1
−2

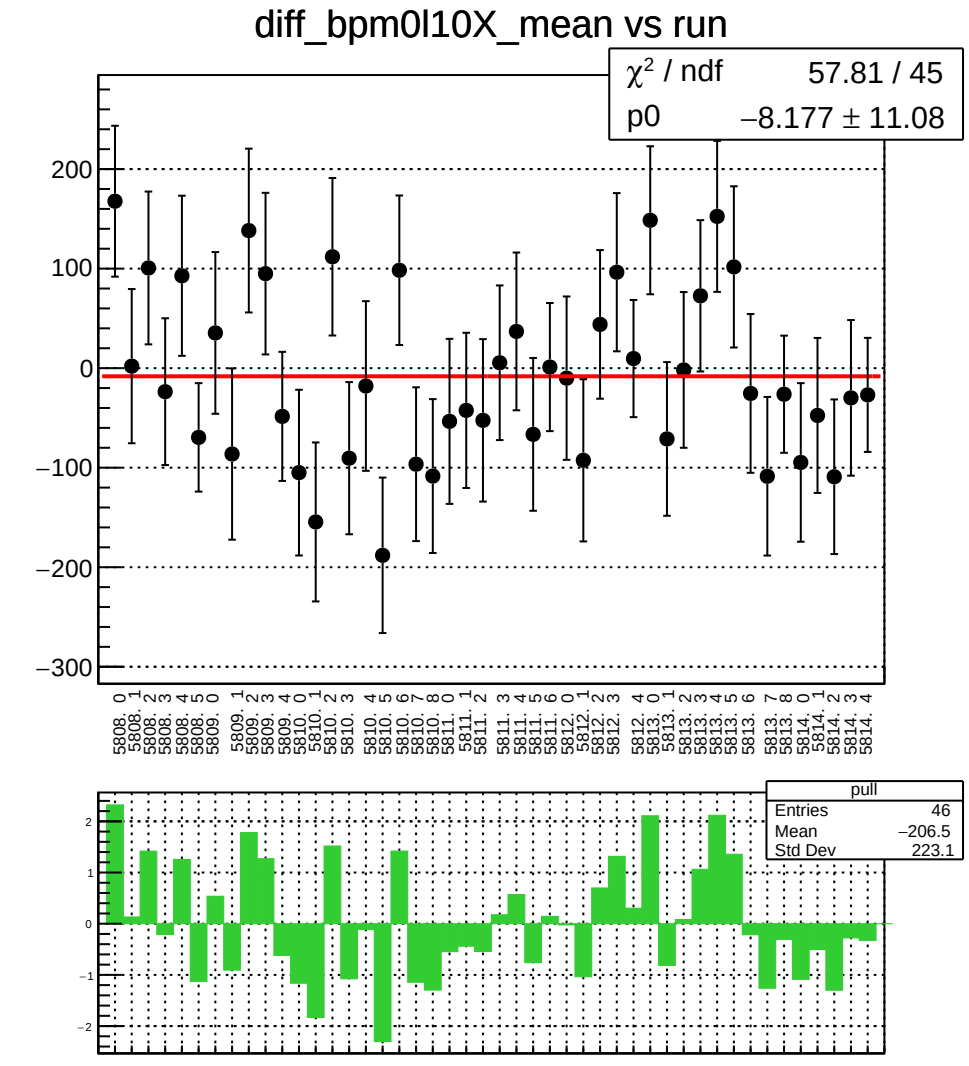

pull1D
Entries 46
Mean 0.006764
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

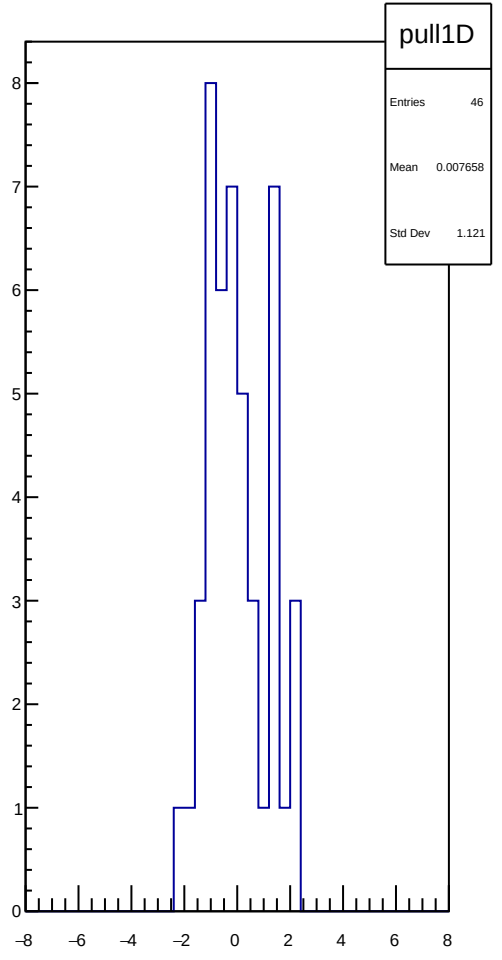

diff_bpm0l09X_rms vs run
χ² / ndf 1028 / 45
p0 7127 ± 7.487
8000
7800
7600
7400
7200
7000
6800
6600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

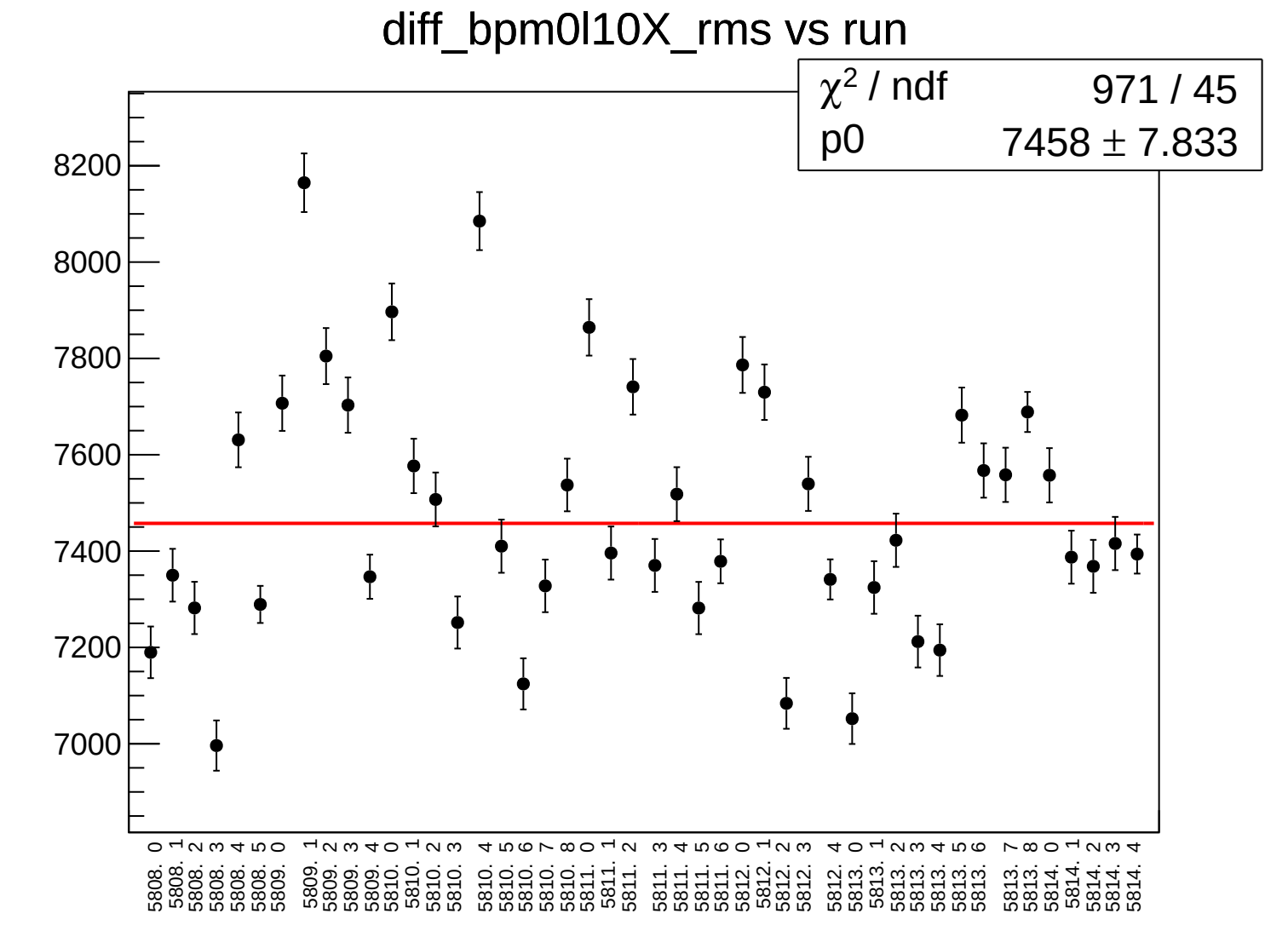

diff_bpm0l09Y_mean vs run
χ² / ndf 38.27 / 45
p0 5.835 ± 1.667
pull
Entries 46
Mean 42.98
Std Dev 38.09

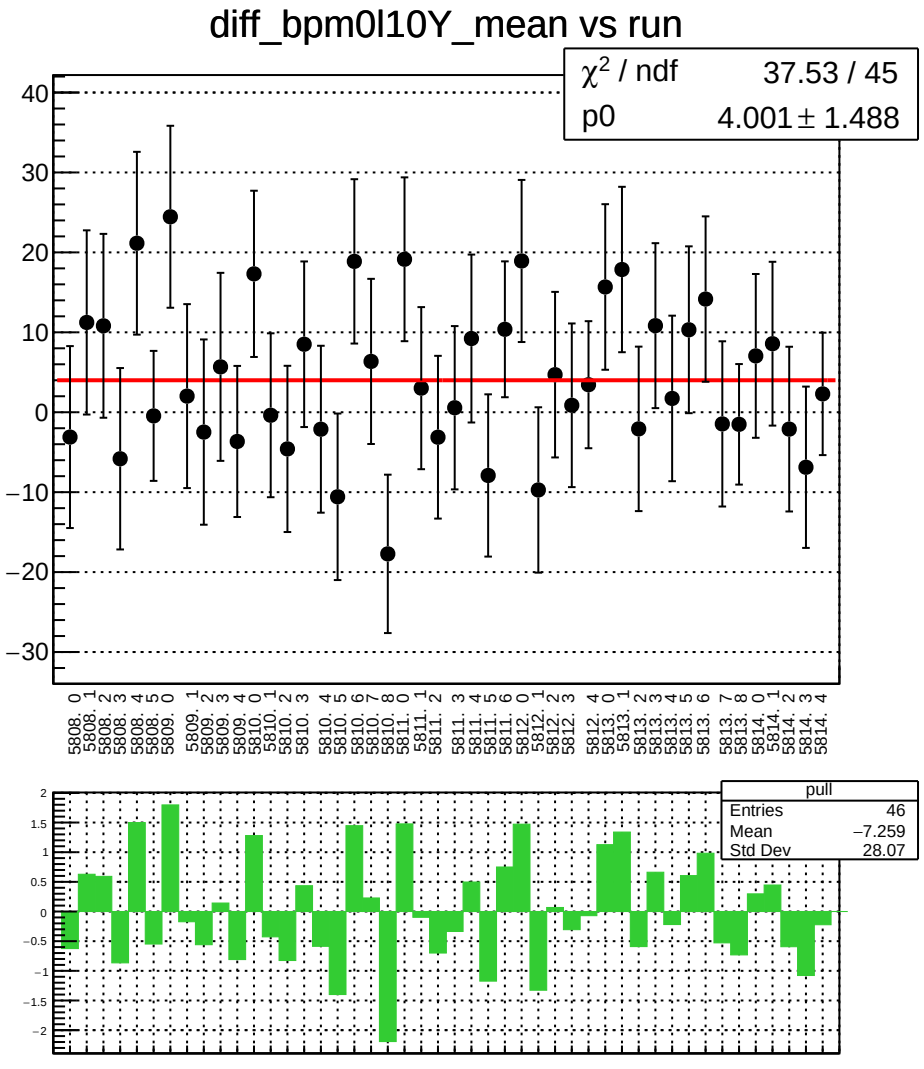

pull1D
Entries 46
Mean 0.01408
Std Dev 0.912

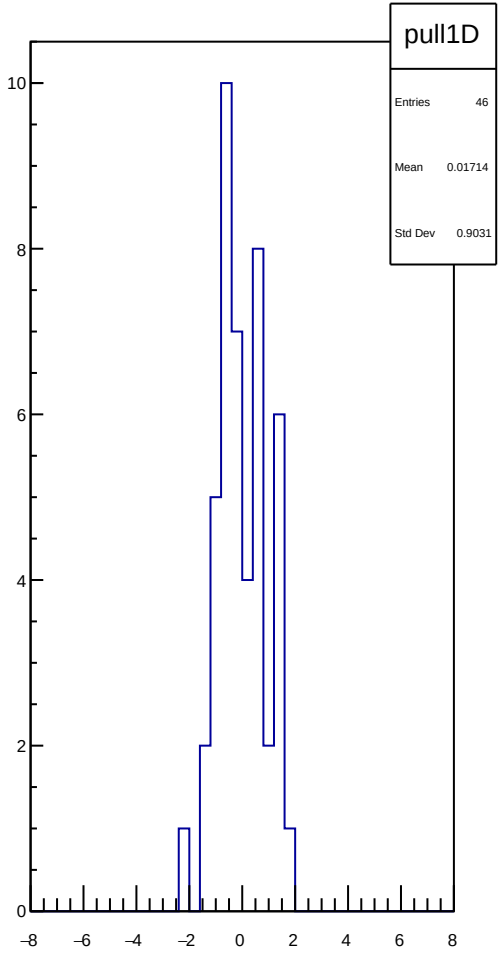

diff_bpm0l09Y_rms vs run
χ² / ndf 1226 / 45
p0 1122 ± 1.179
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

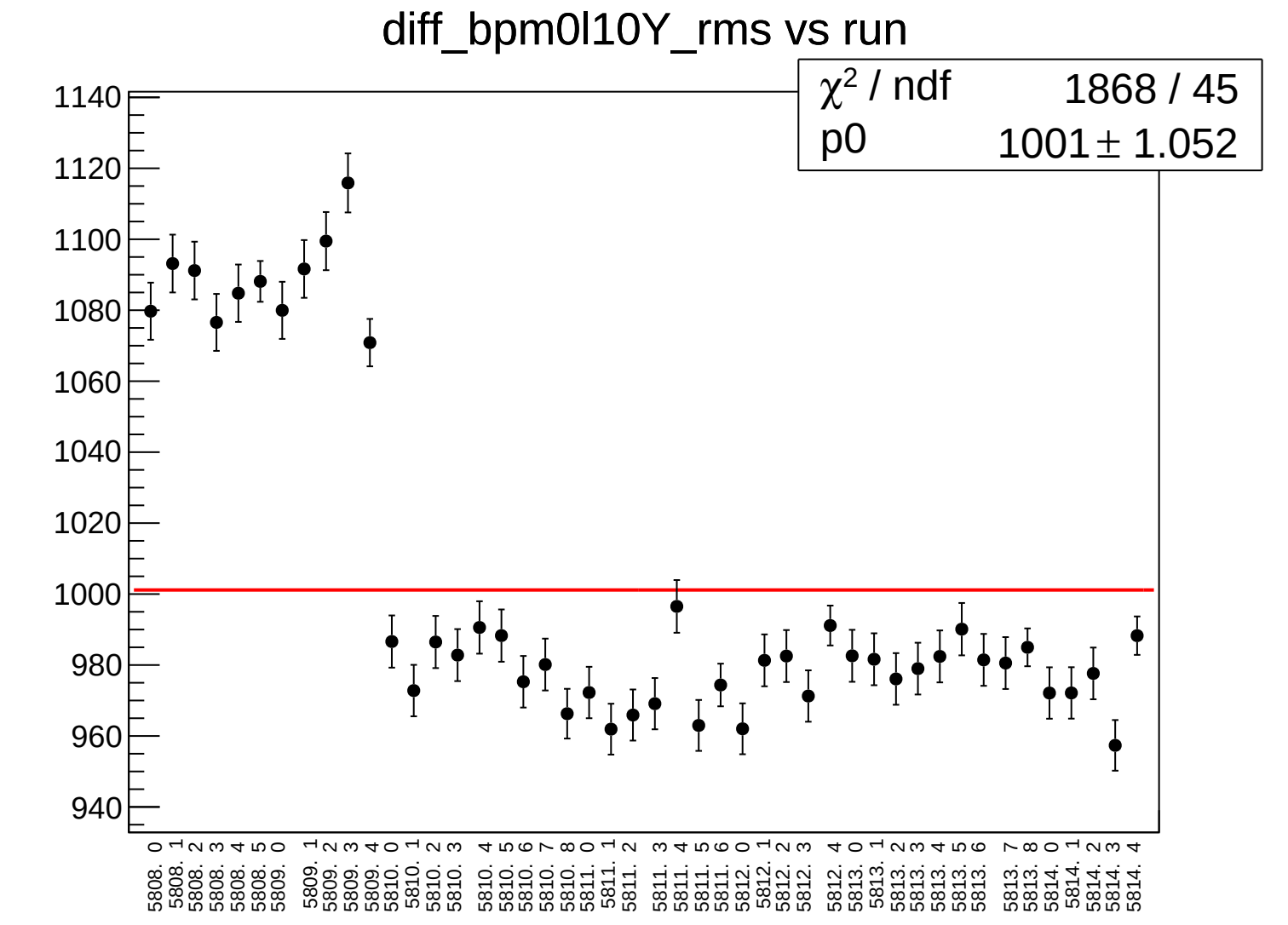

diff_bpm0l10X_mean vs run
χ² / ndf 57.81 / 45
p0 −8.177 ± 11.08
200
100
0
−100
−200
−300
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −206.5
Std Dev 223.1
2
1
0
−1
−2

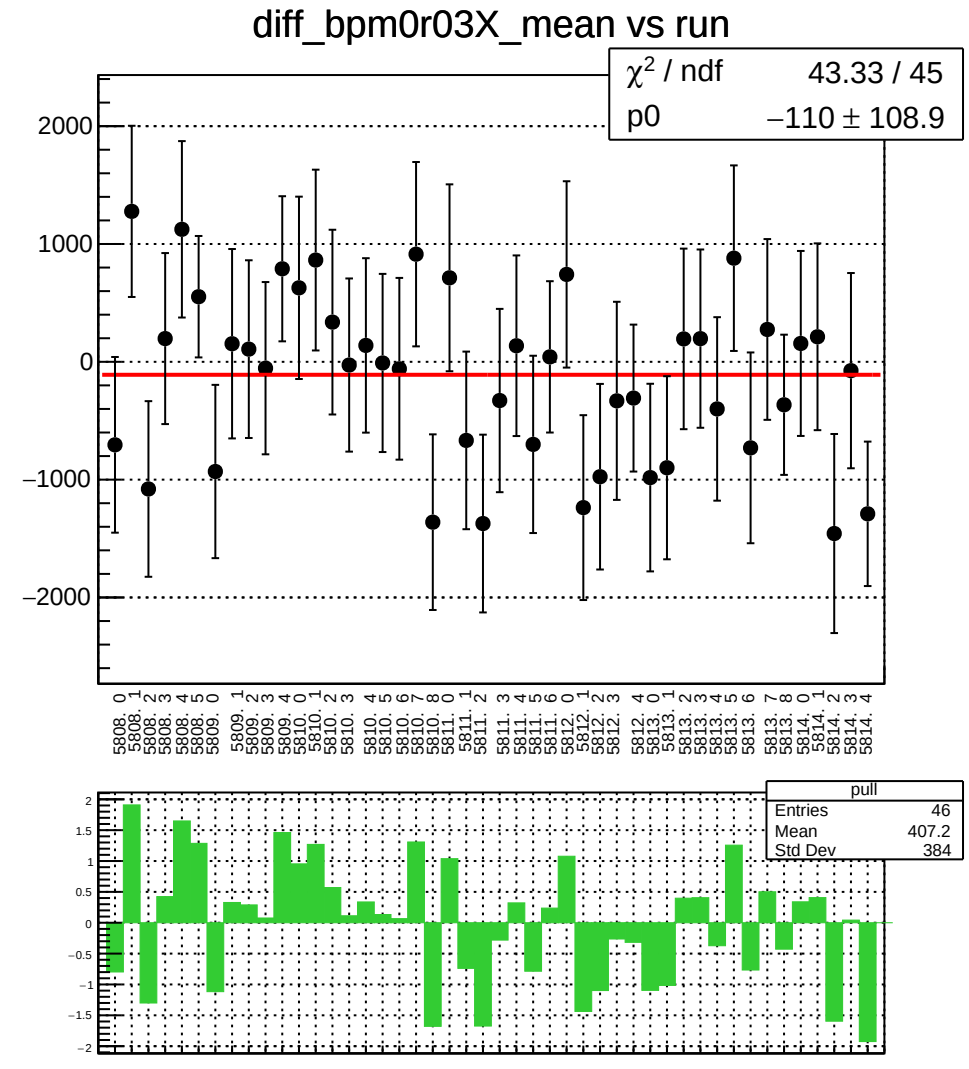

pull1D
Entries 46
Mean 0.007658
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

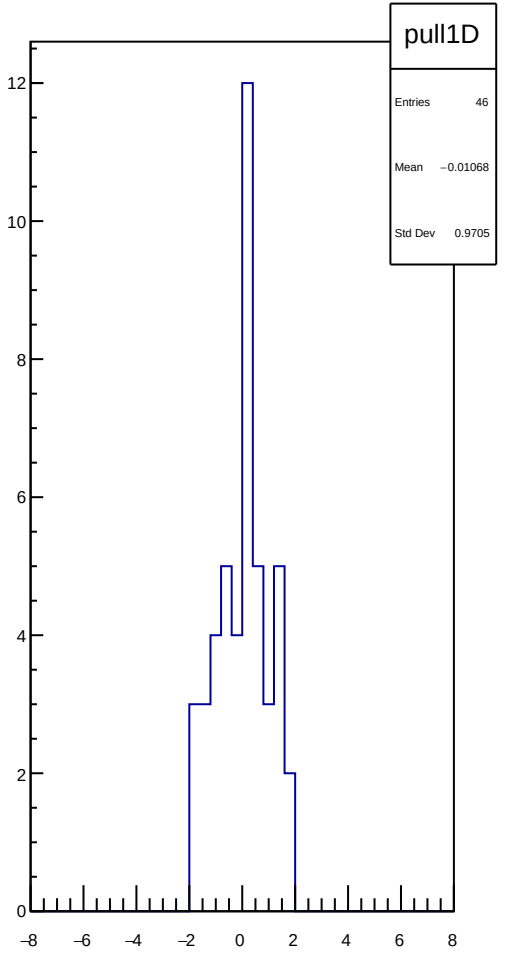

diff_bpm0l10X_rms vs run
χ² / ndf 971 / 45
p0 7458 ± 7.833
8200
8000
7800
7600
7400
7200
7000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

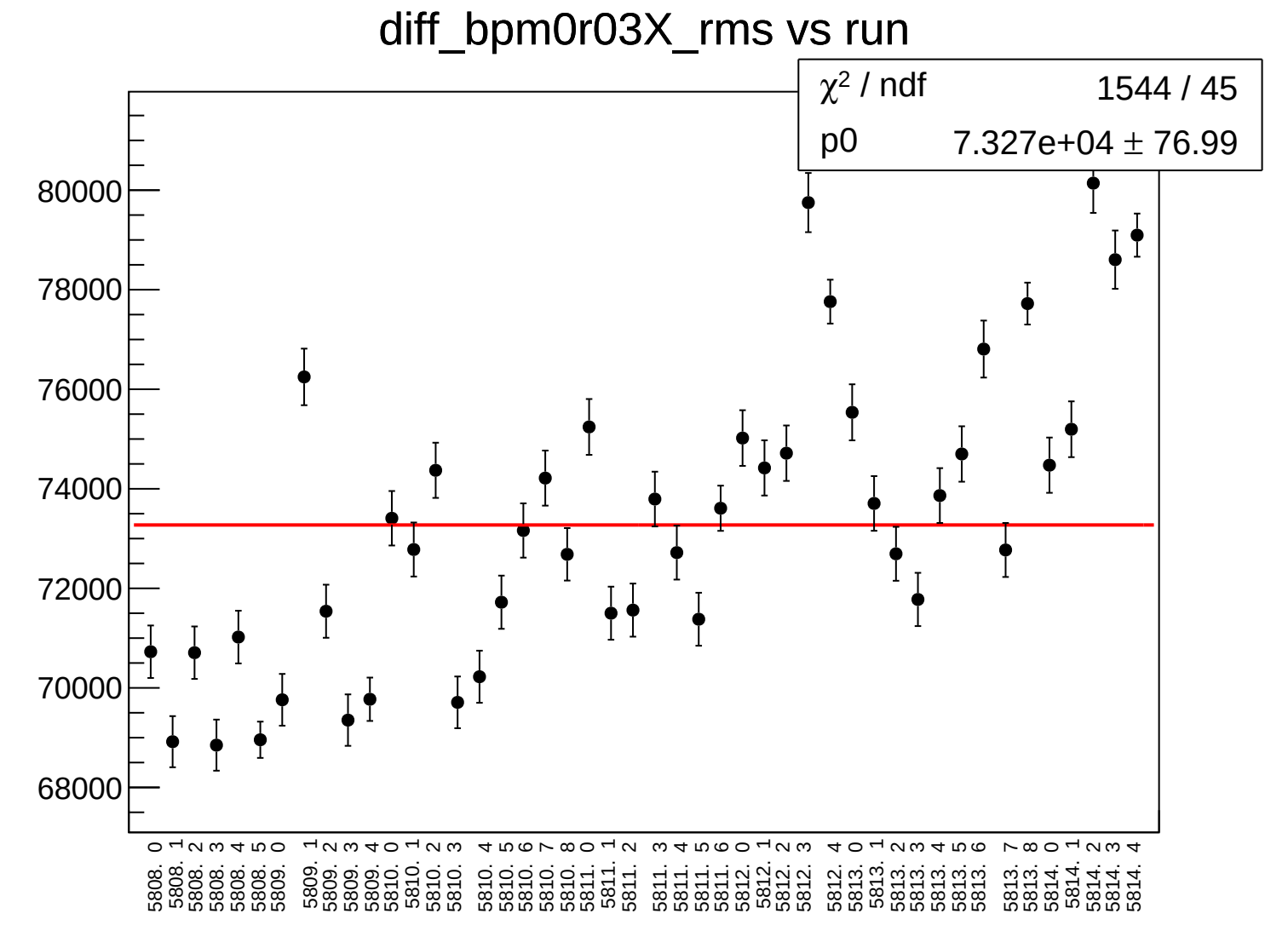

diff_bpm0l10Y_mean vs run
χ² / ndf 37.53 / 45
p0 4.001 ± 1.488
pull
Entries 46
Mean −7.259
Std Dev 28.07

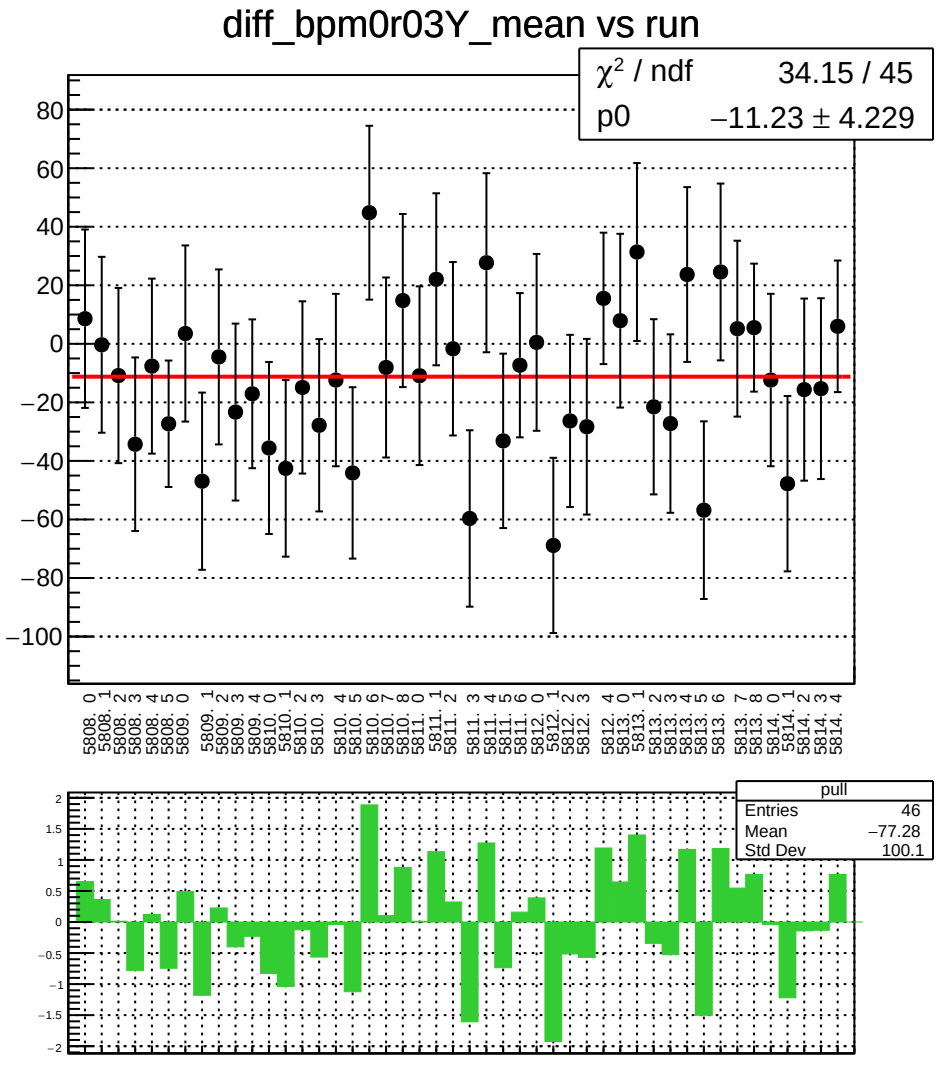

pull1D
Entries 46
Mean 0.01714
Std Dev 0.9031

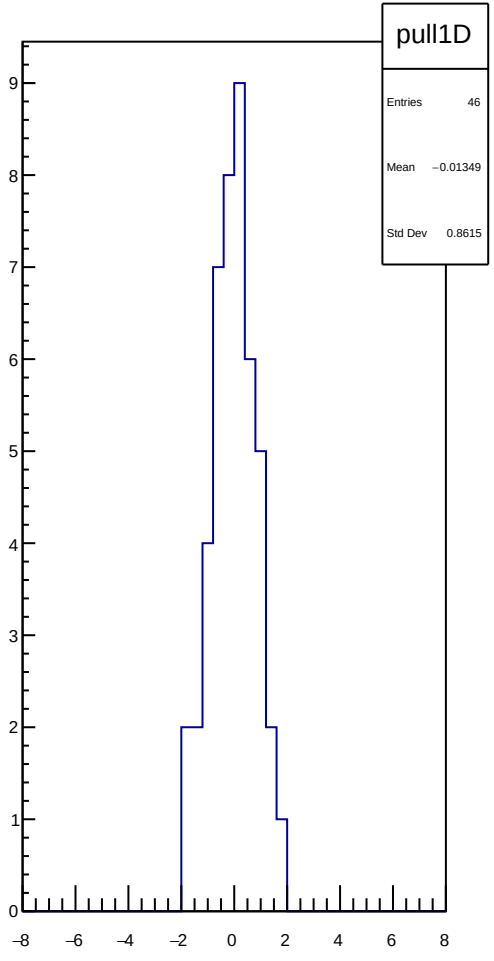

diff_bpm0l10Y_rms vs run
χ² / ndf 1868 / 45
p0 1001 ± 1.052
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

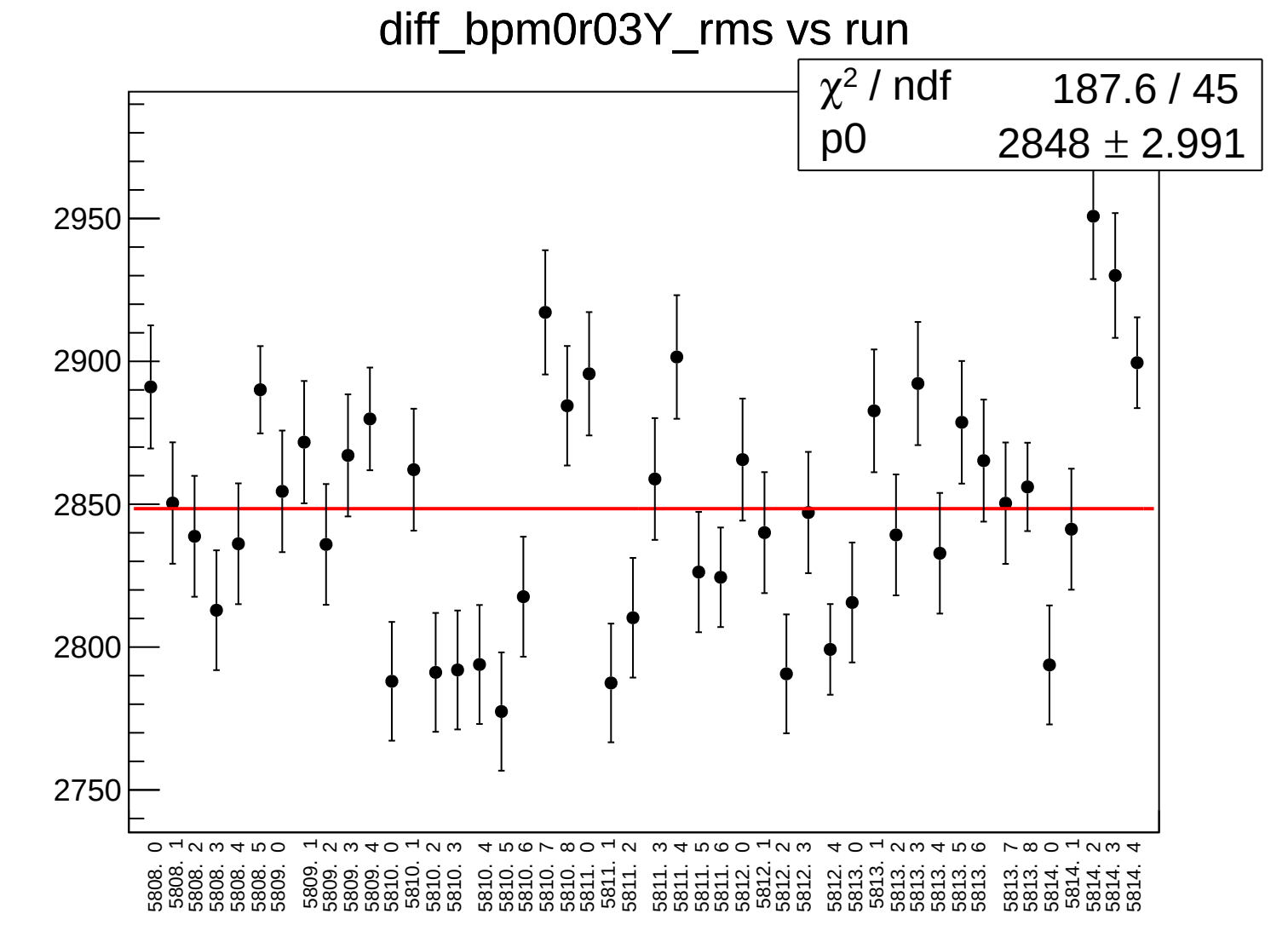

diff_bpm0r03X_mean vs run
χ² / ndf 43.33 / 45
p0 −110 ± 108.9
2000
1000
0
−1000
−2000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 407.2
Std Dev 384
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

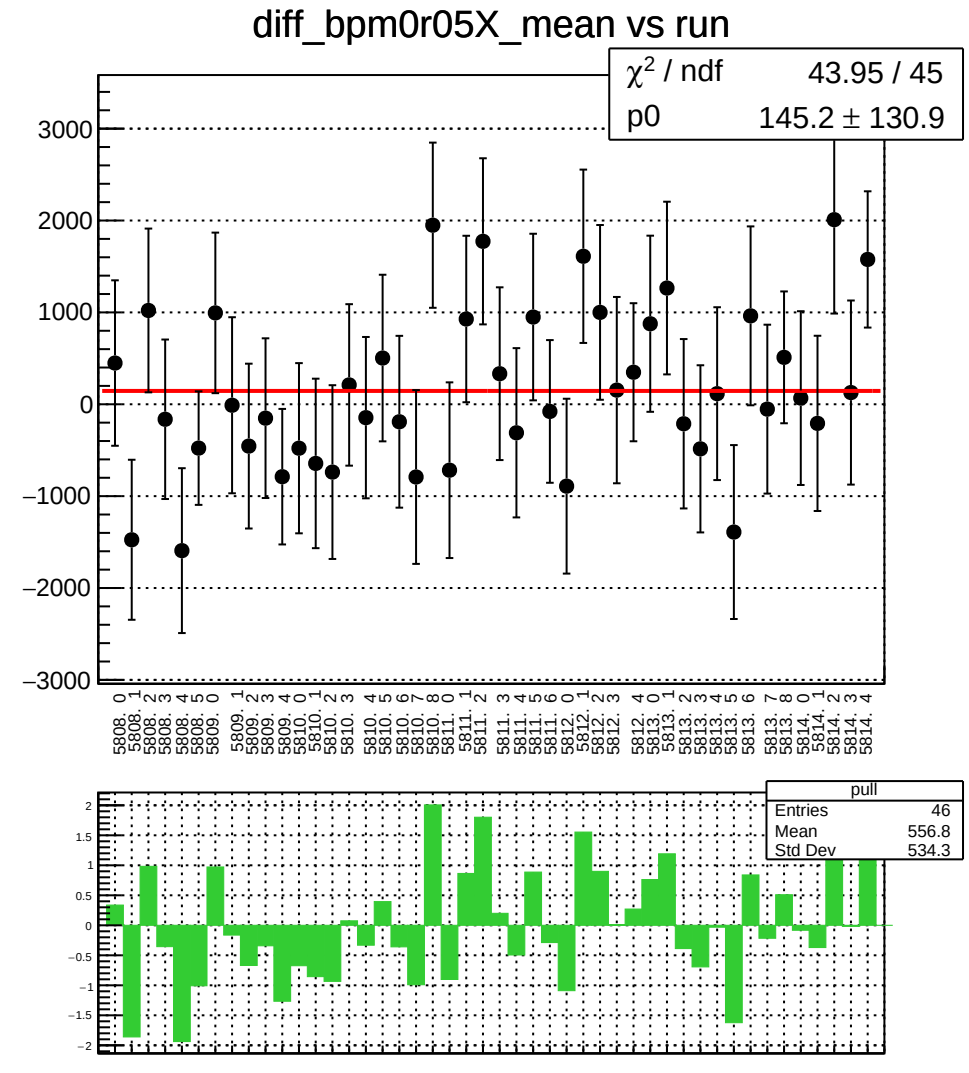

pull1D
Entries 46
Mean −0.01068
Std Dev 0.9705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

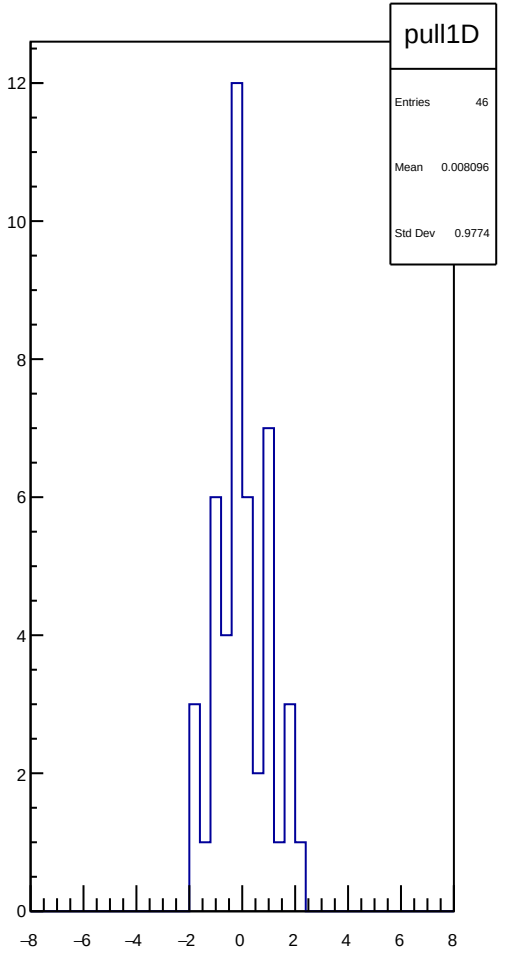

diff_bpm0r03X_rms vs run
χ² / ndf 1544 / 45
p0 7.327e+04 ± 76.99
80000
78000
76000
74000
72000
70000
68000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

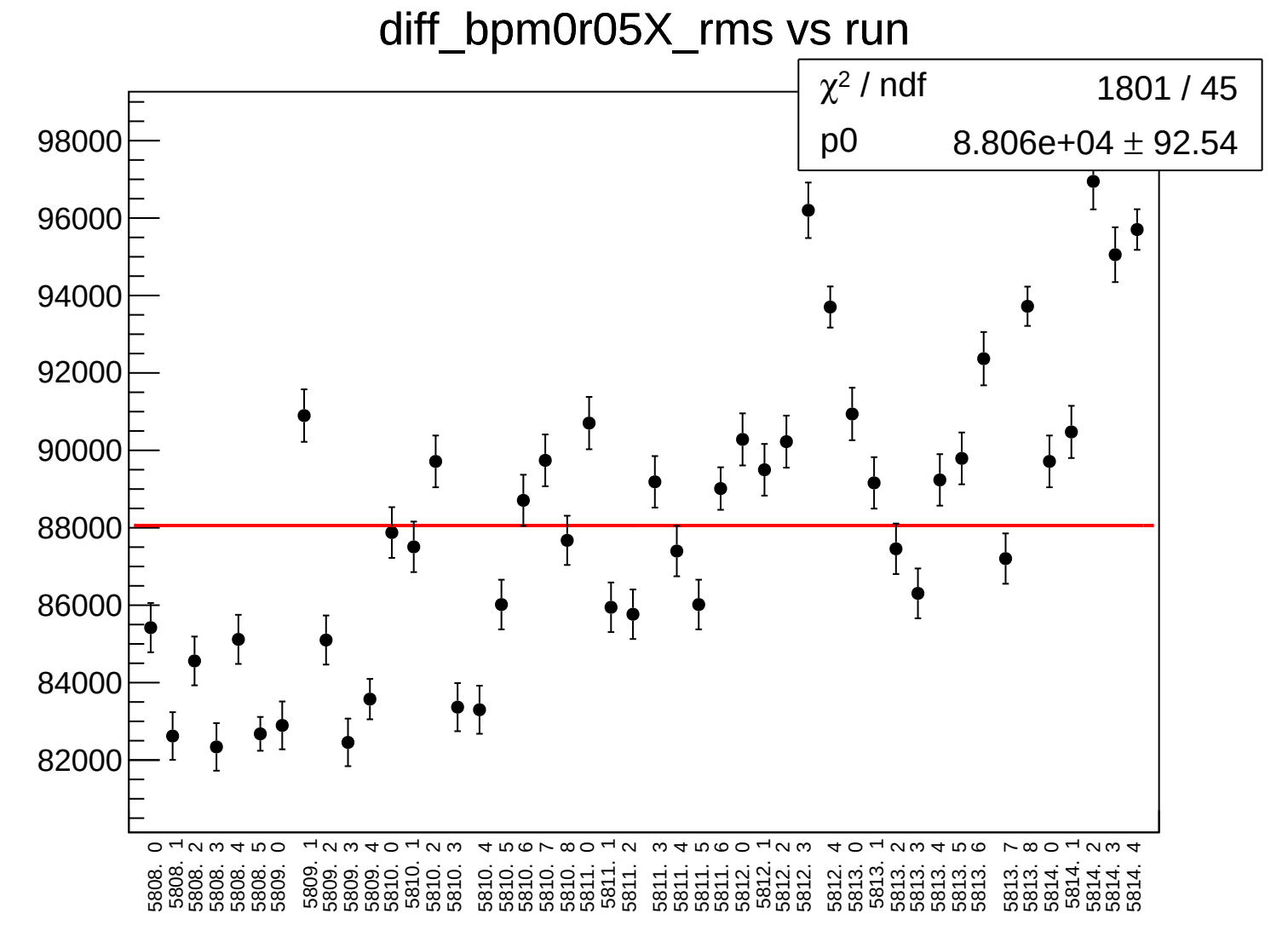

diff_bpm0r03Y_mean vs run
χ² / ndf 34.15 / 45
p0 −11.23 ± 4.229
pull
Entries 46
Mean −77.28
Std Dev 100.1

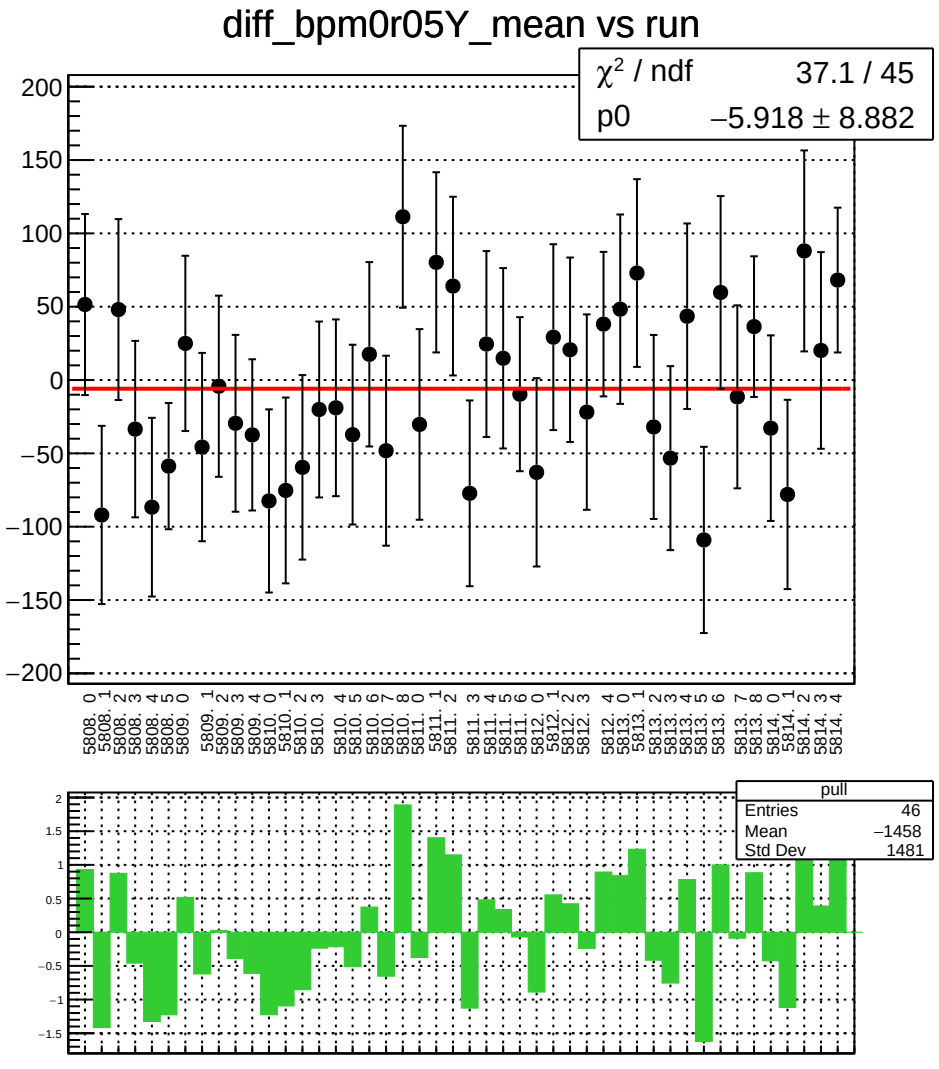

pull1D
Entries 46
Mean −0.01349
Std Dev 0.8615

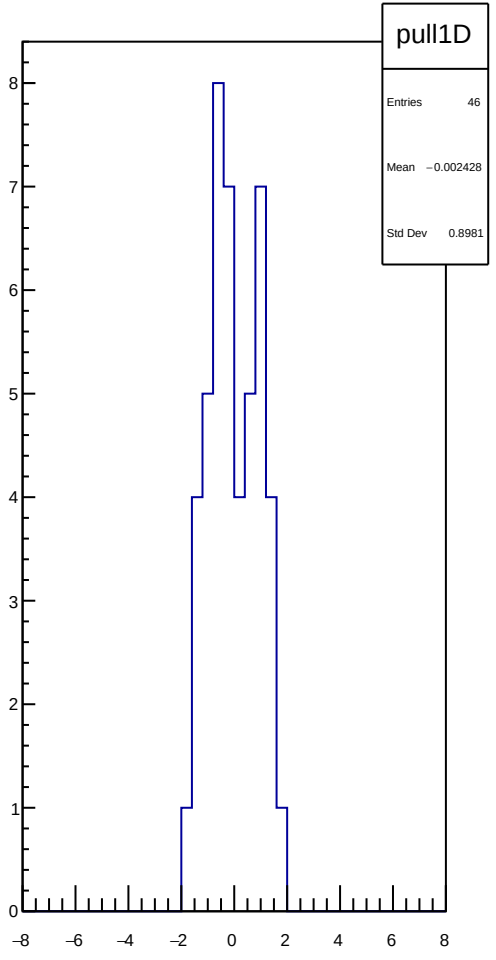

diff_bpm0r03Y_rms vs run
χ² / ndf 187.6 / 45
p0 2848 ± 2.991
2950
2900
2850
2800
2750
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

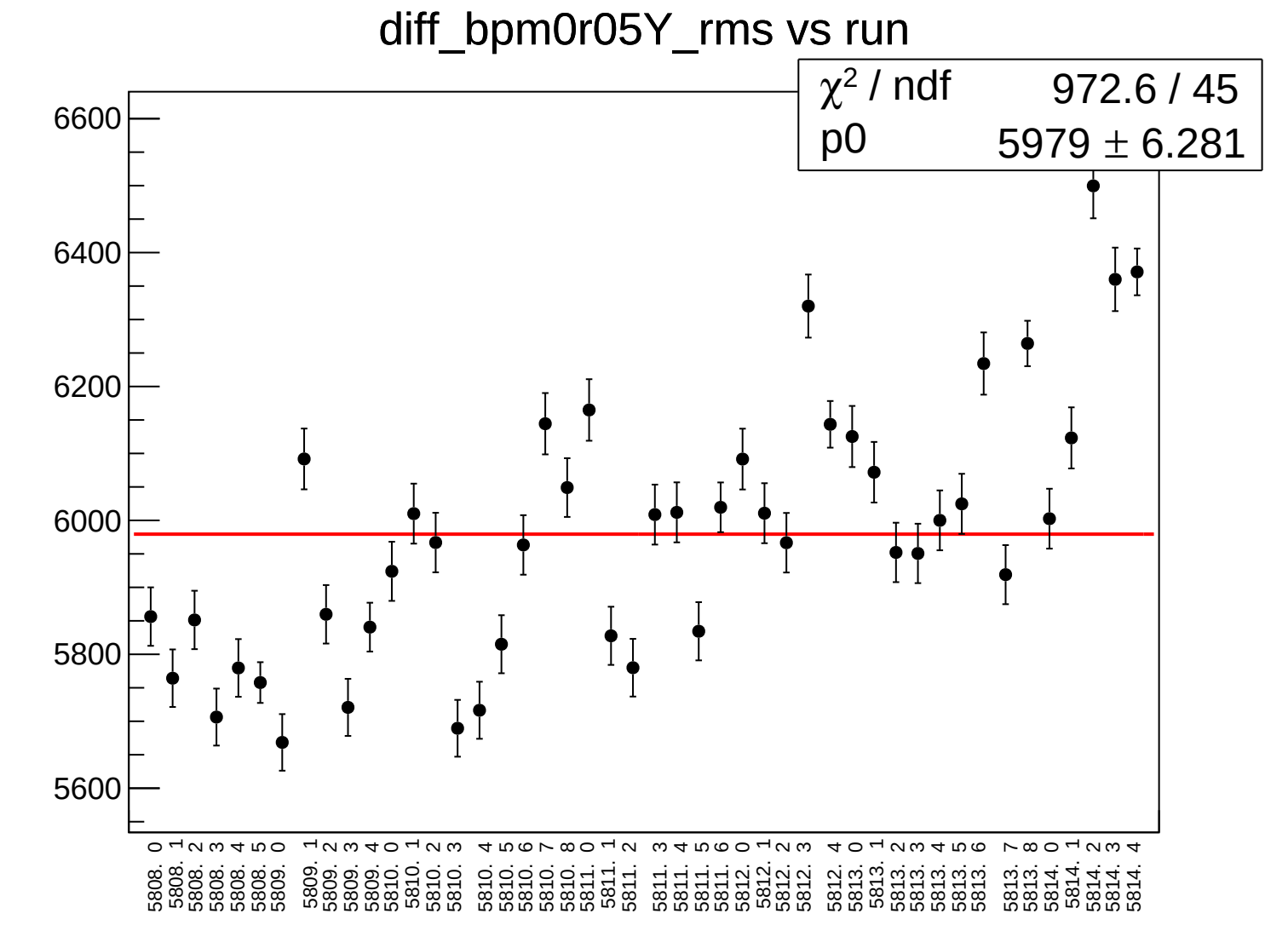

diff_bpm0r05X_mean vs run
χ^2 / ndf 43.95 / 45
p0 145.2 ± 130.9
3000
2000
1000
0
−1000
−2000
−3000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 556.8
Std Dev 534.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

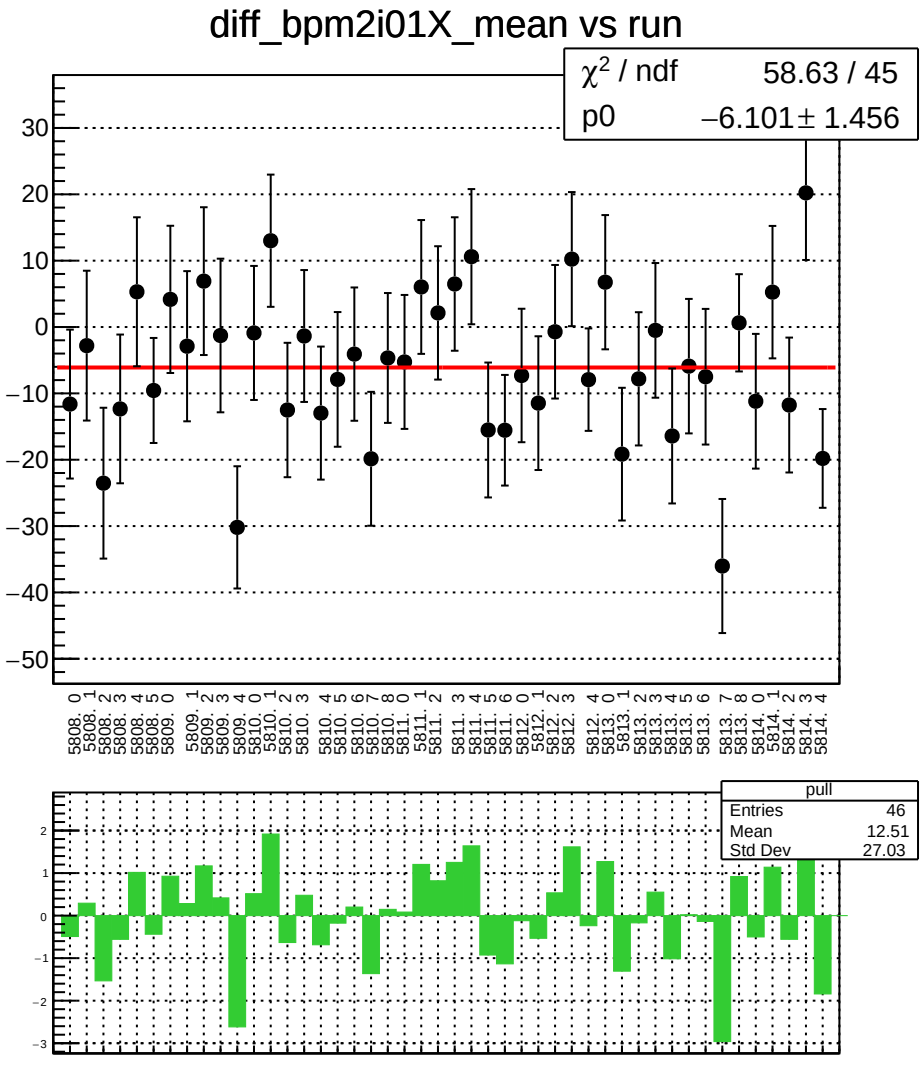

pull1D
Entries 46
Mean 0.008096
Std Dev 0.9774
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

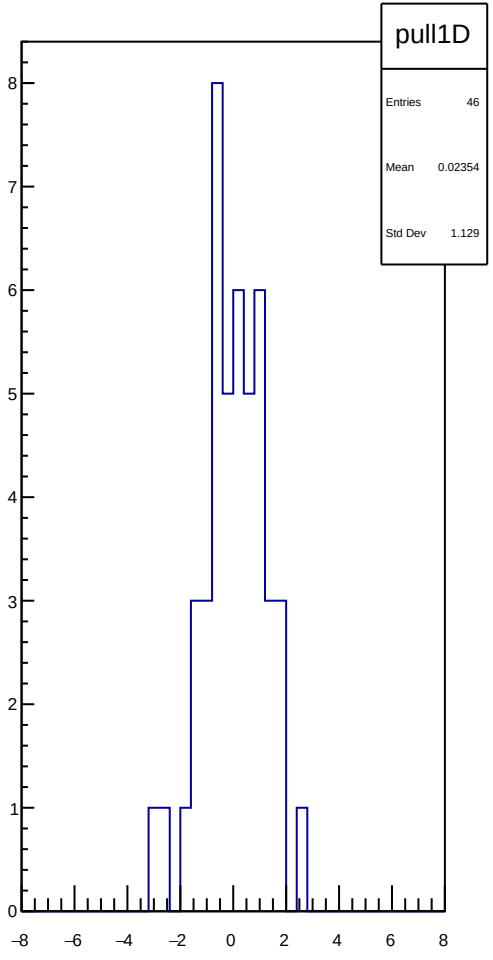

diff_bpm0r05X_rms vs run
χ² / ndf 1801 / 45
p0 8.806e+04 ± 92.54
98000
96000
94000
92000
90000
88000
86000
84000
82000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

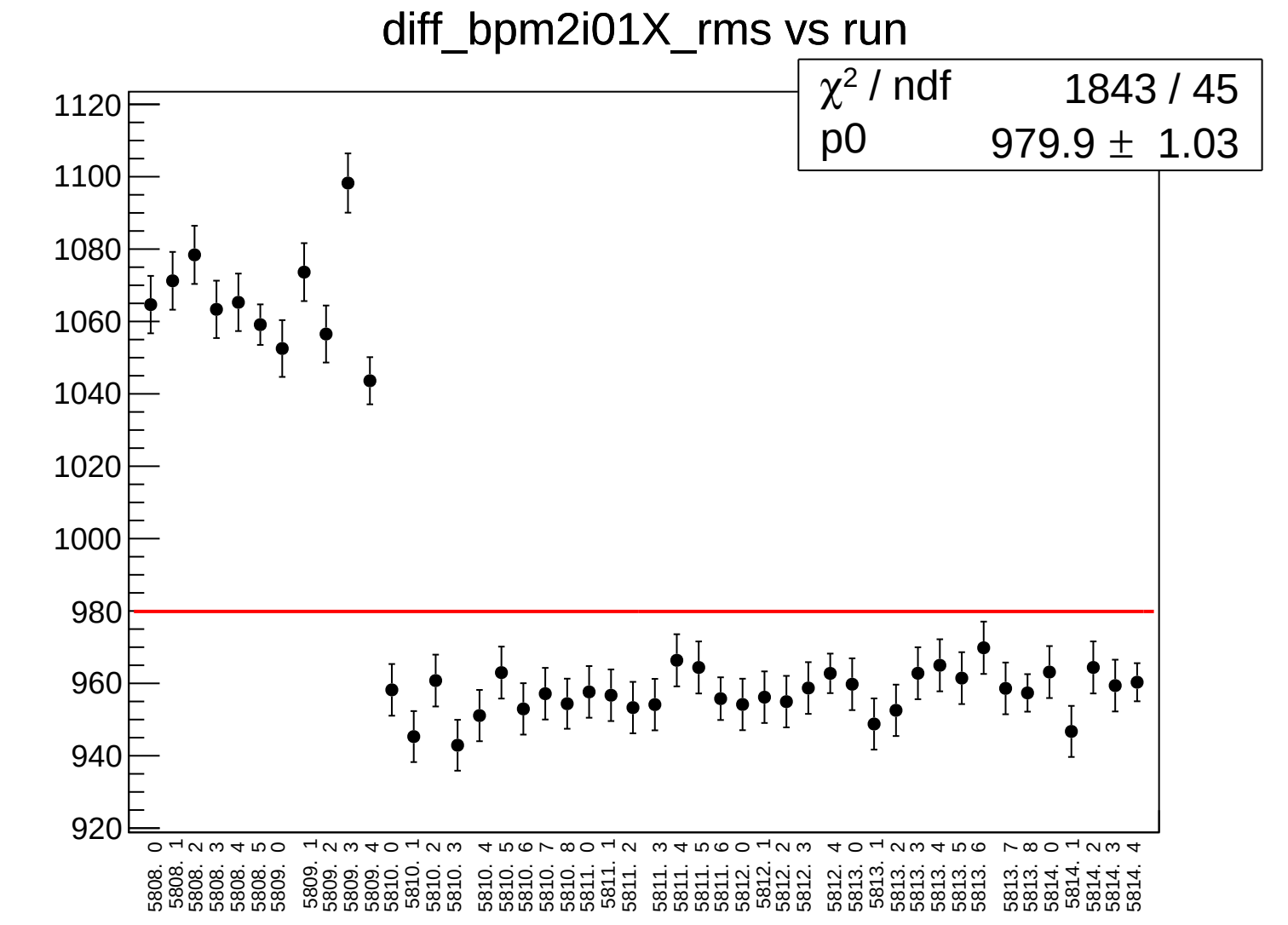

diff_bpm0r05Y_mean vs run
χ² / ndf 37.1 / 45
p0 −5.918 ± 8.882
pull
Entries 46
Mean −1458
Std Dev 1481

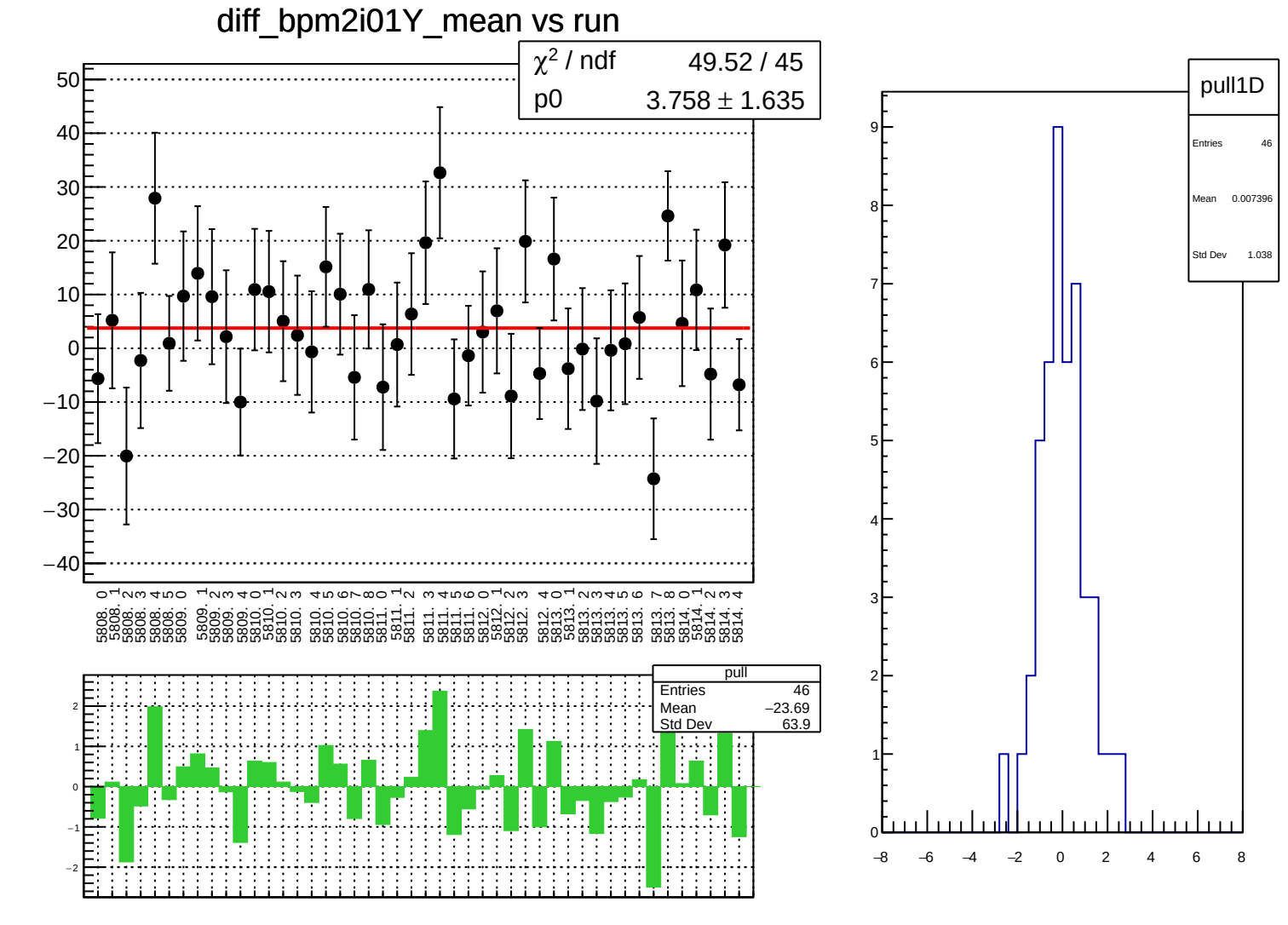

pull1D
Entries 46
Mean −0.002428
Std Dev 0.8981

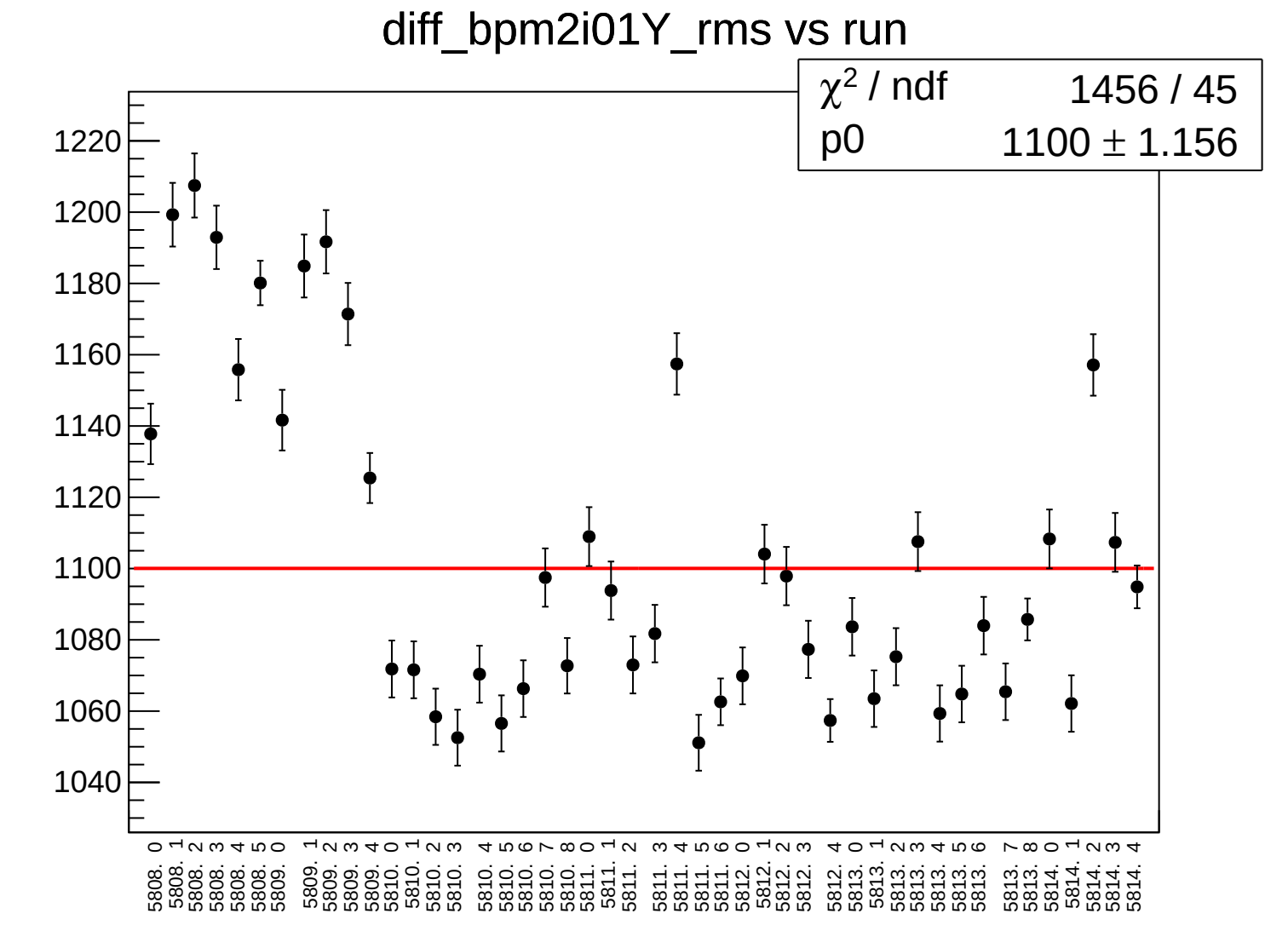

diff_bpm0r05Y_rms vs run
χ² / ndf 972.6 / 45
p0 5979 ± 6.281
6600
6400
6200
6000
5800
5600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

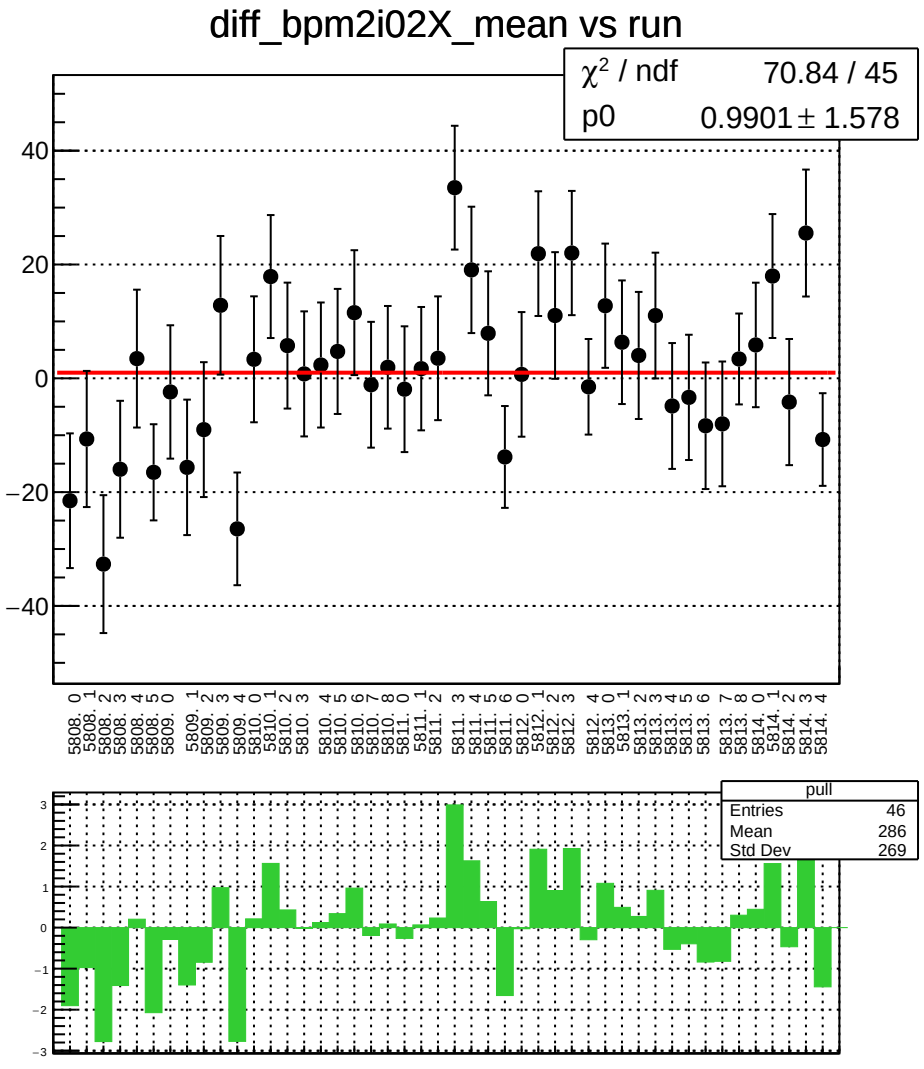

diff_bpm2i01X_mean vs run
χ² / ndf 58.63 / 45
p0 −6.101 ± 1.456
pull
Entries 46
Mean 12.51
Std Dev 27.03

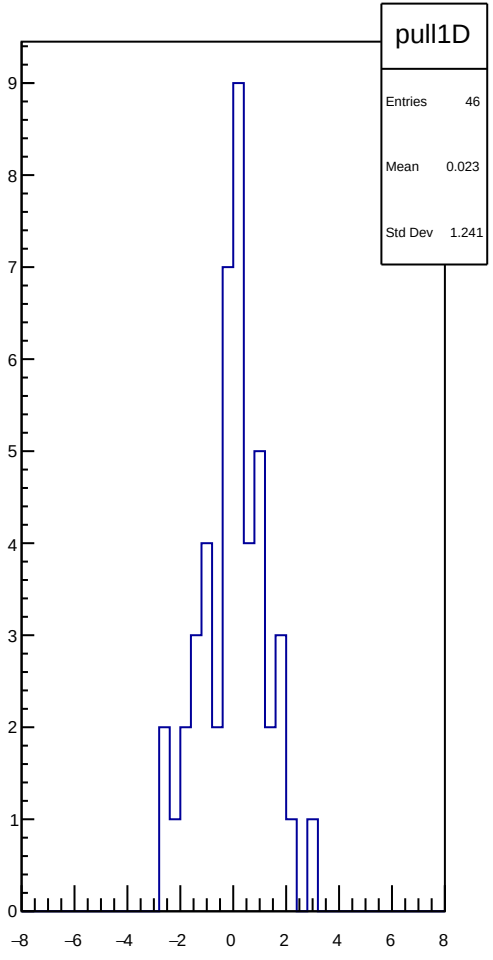

pull1D
Entries 46
Mean 0.02354
Std Dev 1.129

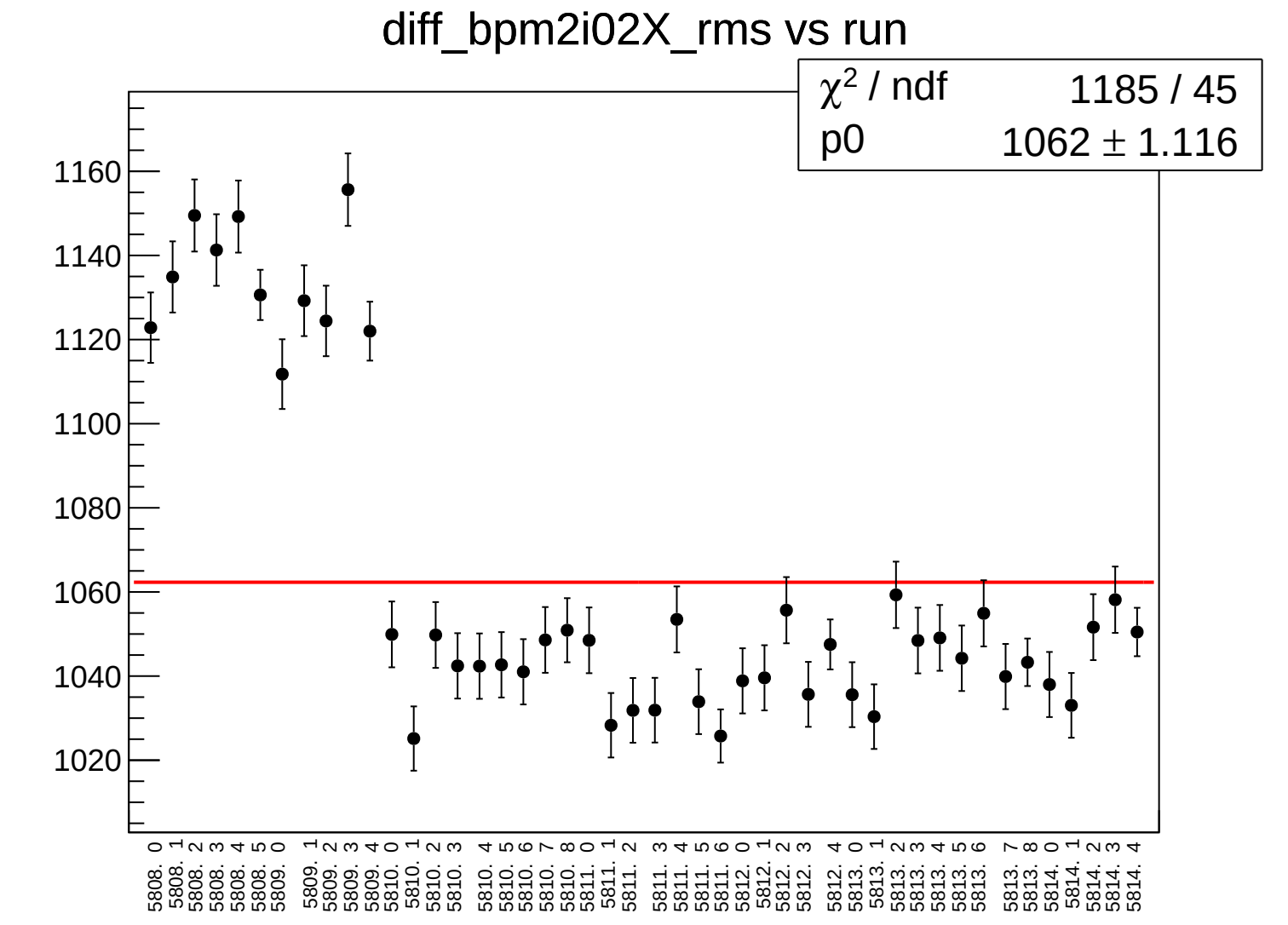

diff_bpm2i01X_rms vs run
χ² / ndf 1843 / 45
p0 979.9 ± 1.03
1120
1100
1080
1060
1040
1020
1000
980
960
940
920
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

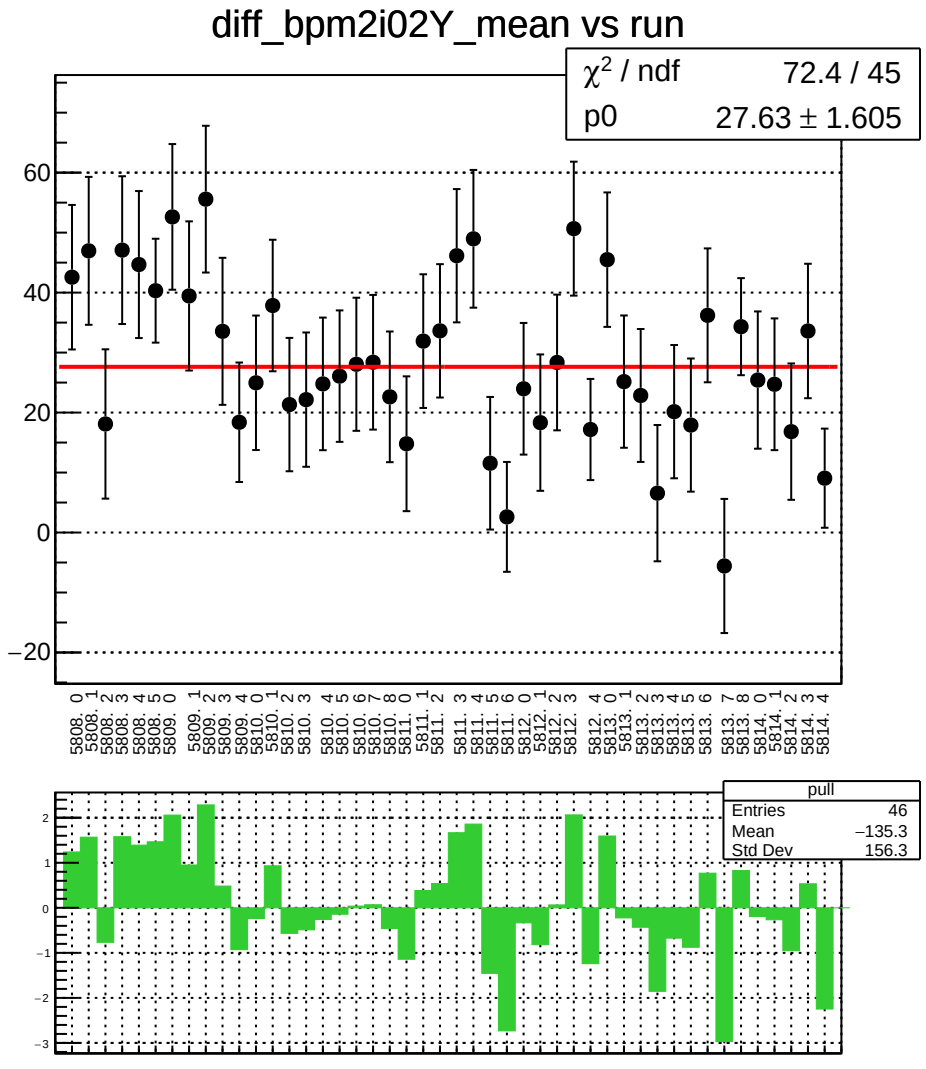

diff_bpm2i01Y_mean vs run
χ^2 / ndf 49.52 / 45
p0 3.758 ± 1.635
pull
Entries 46
Mean −23.69
Std Dev 63.9
pull1D
Entries 46
Mean 0.007396
Std Dev 1.038

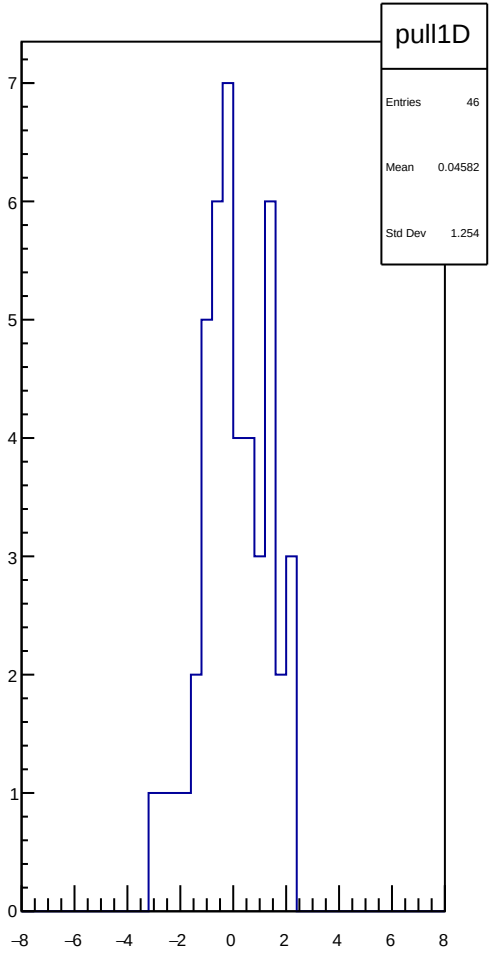

diff_bpm2i01Y_rms vs run
χ² / ndf 1456 / 45
p0 1100 ± 1.156
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

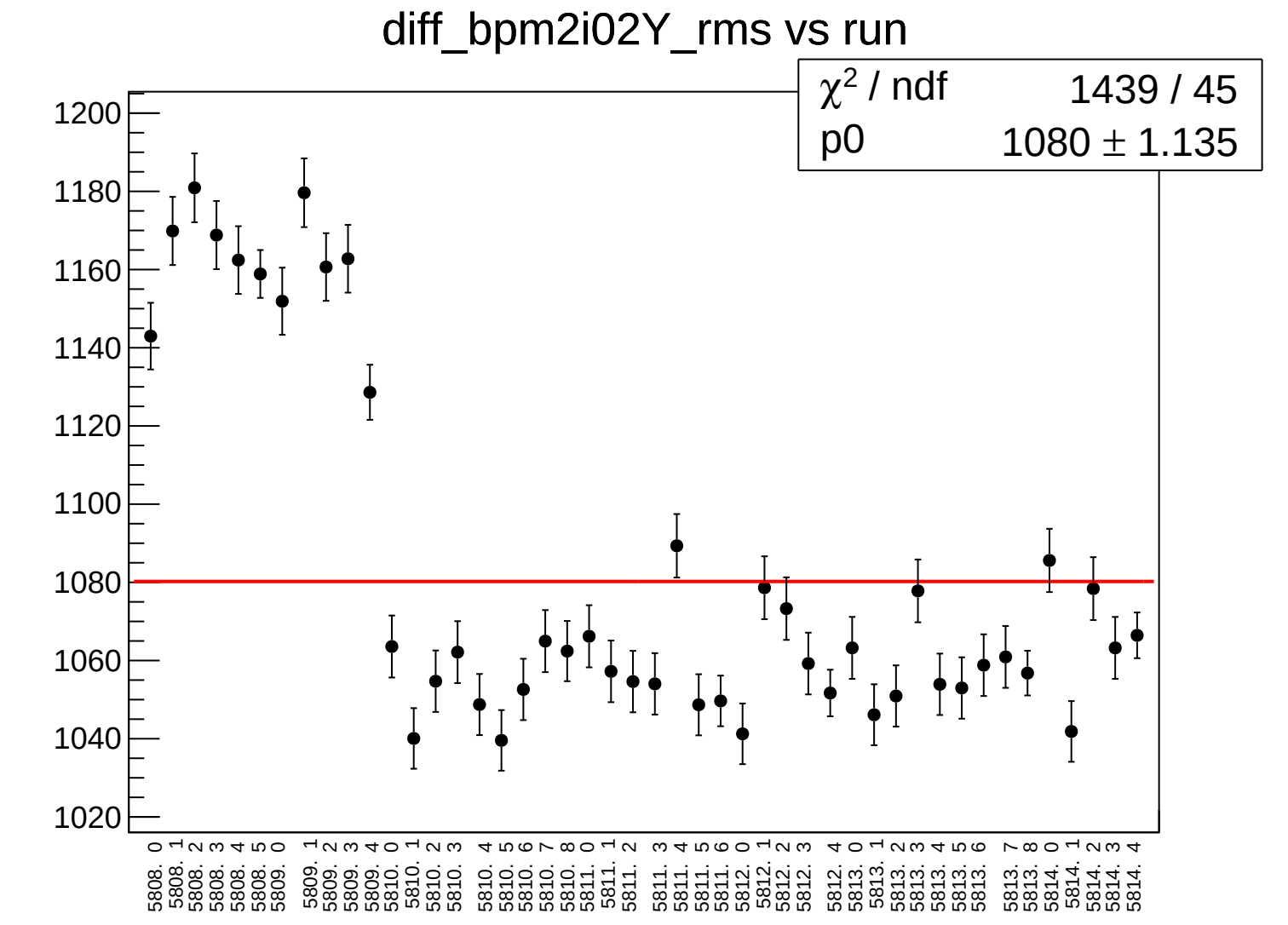

diff_bpm2i02X_mean vs run
χ² / ndf 70.84 / 45
p0 0.9901 ± 1.578
40
20
0
−20
−40
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 286
Std Dev 269
3
2
1
0
−1
−2
−3

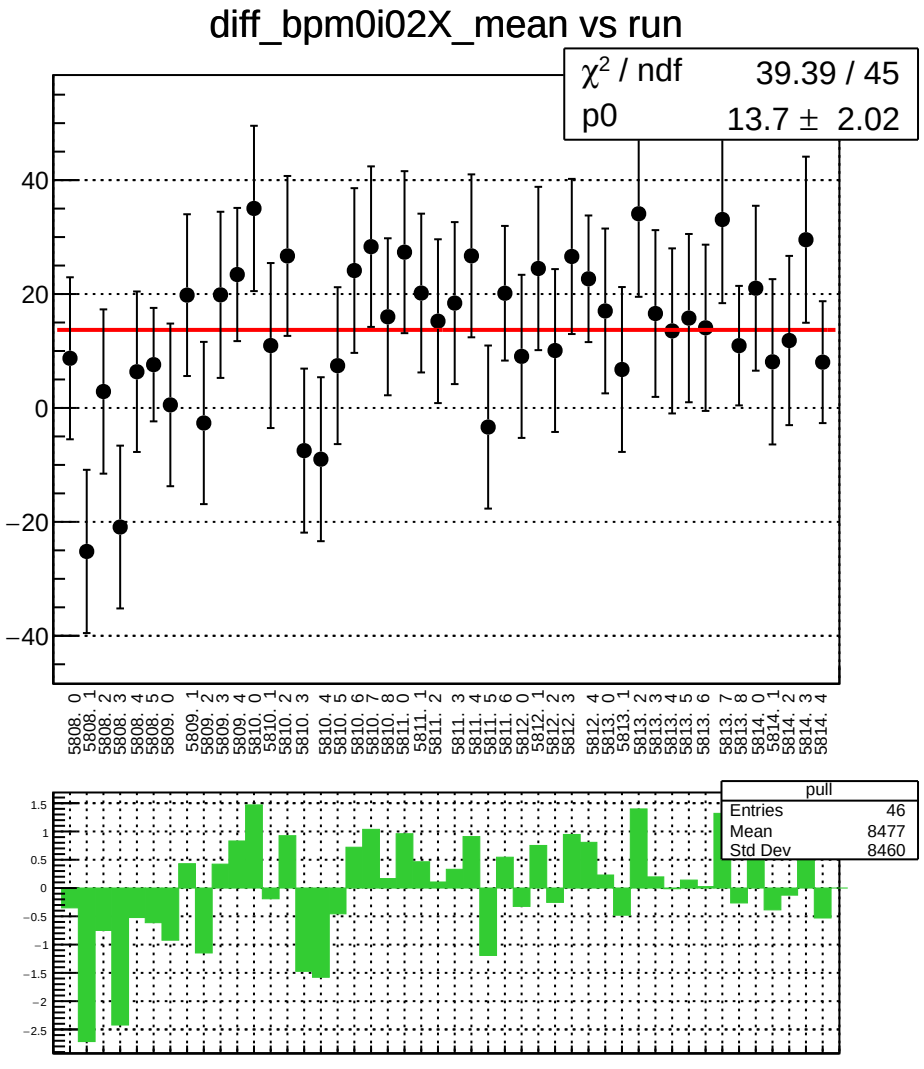

pull1D
Entries 46
Mean 0.023
Std Dev 1.241
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

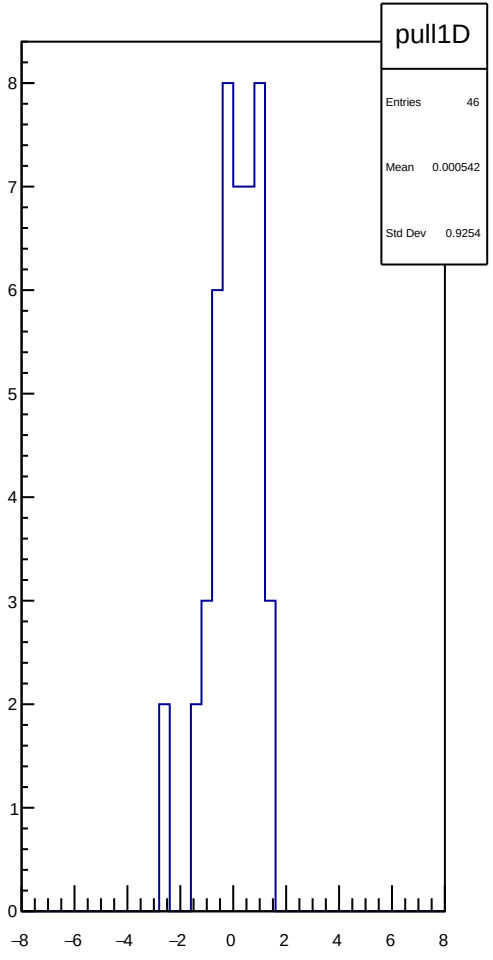

diff_bpm2i02X_rms vs run
χ² / ndf 1185 / 45
p0 1062 ± 1.116
1160
1140
1120
1100
1080
1060
1040
1020
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

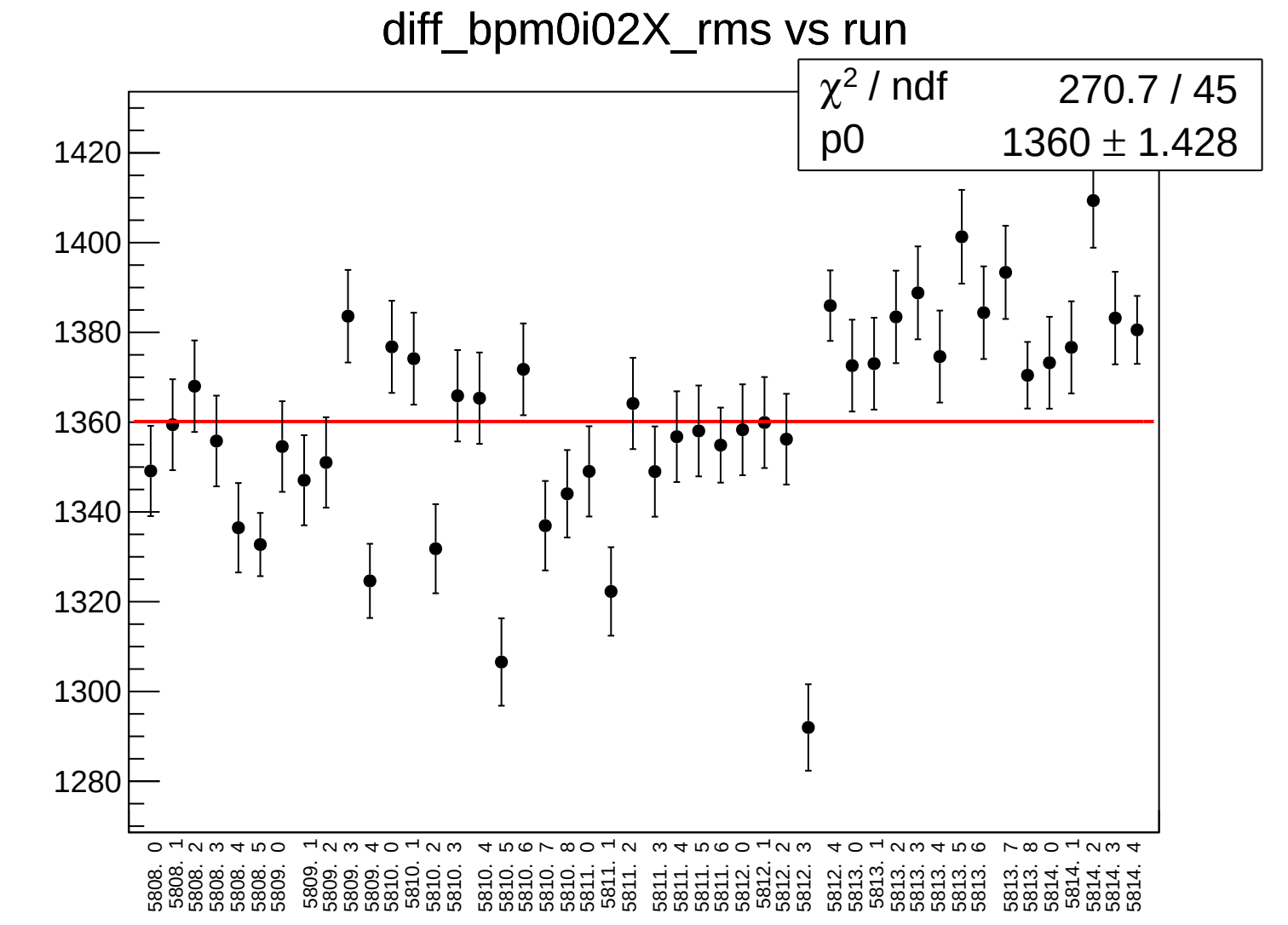

diff_bpm2i02Y_mean vs run
χ² / ndf 72.4 / 45
p0 27.63 ± 1.605
pull
Entries 46
Mean −135.3
Std Dev 156.3

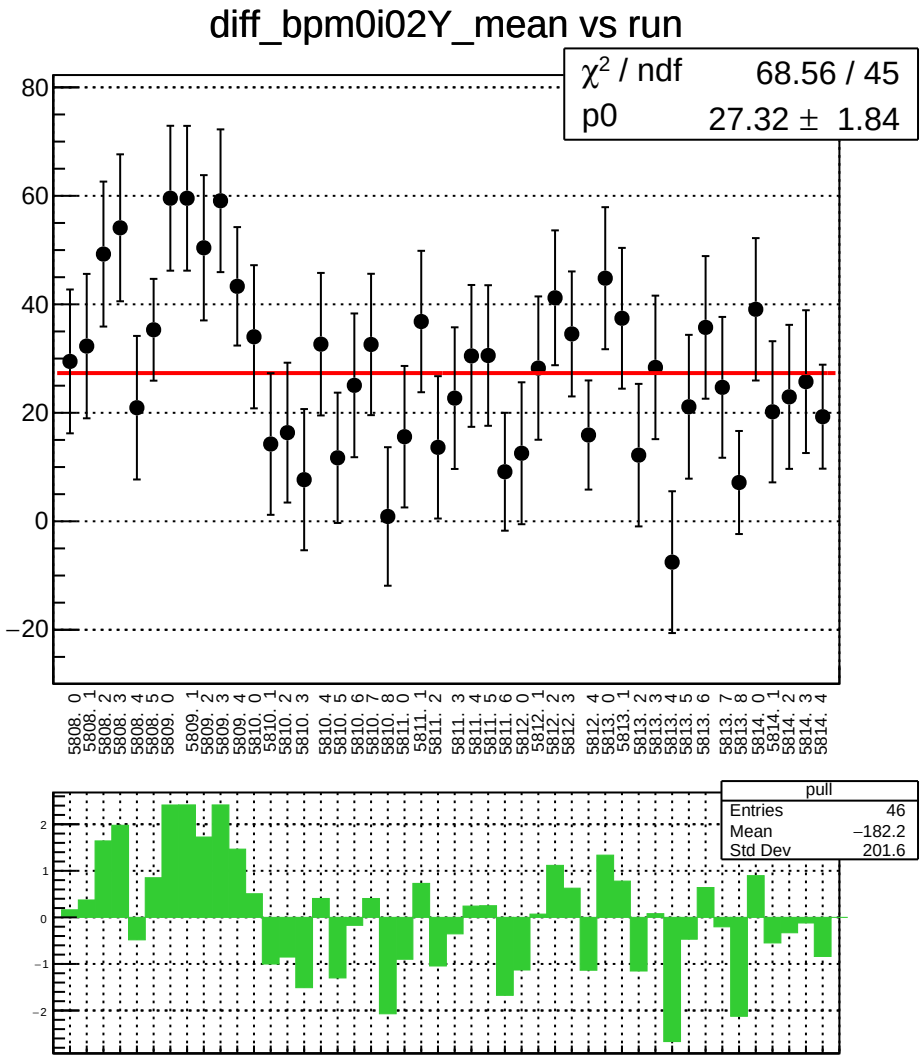

pull1D
Entries 46
Mean 0.04582
Std Dev 1.254

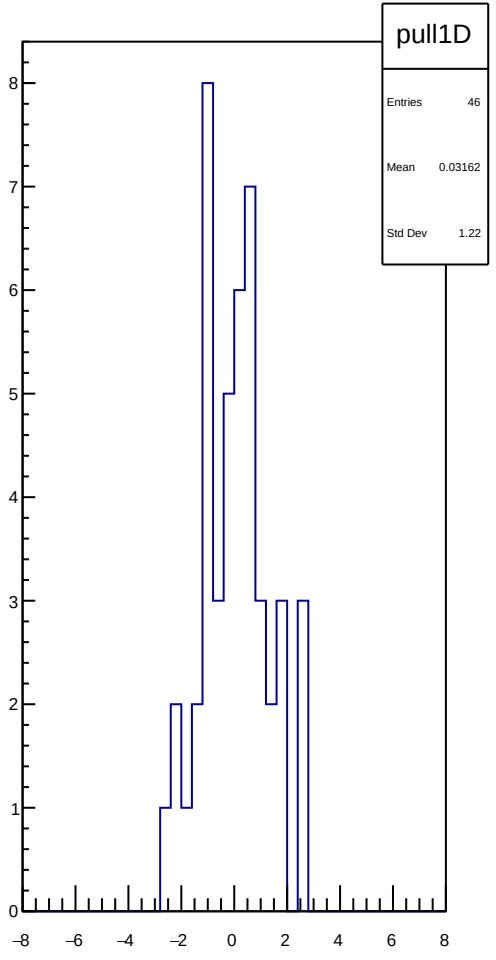

diff_bpm2i02Y_rms vs run
χ² / ndf 1439 / 45
p0 1080 ± 1.135
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

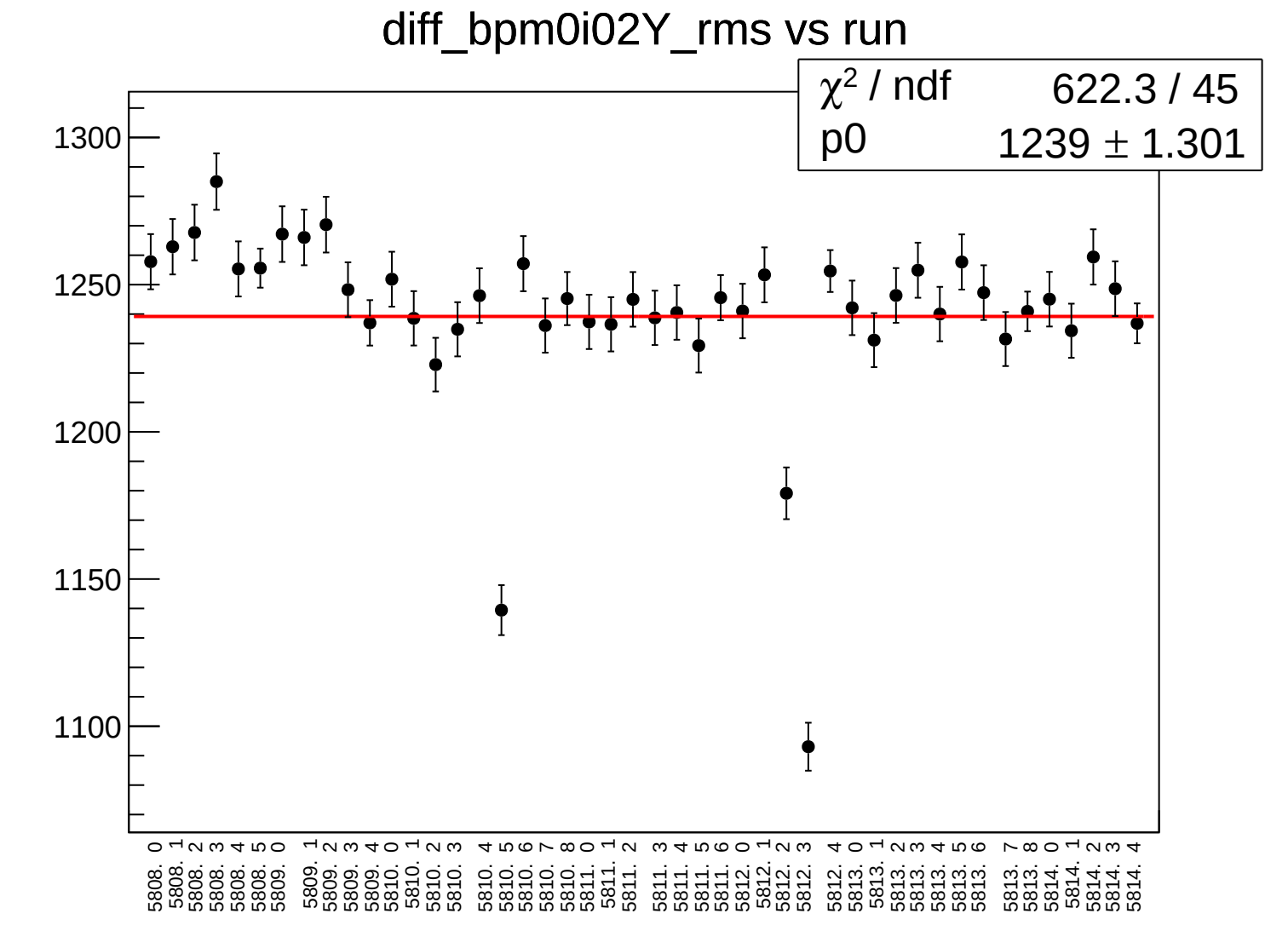

diff_bpm0i02X_mean vs run
χ² / ndf 39.39 / 45
p0 13.7 ± 2.02
40
20
0
−20
−40
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 8477
Std Dev 8460
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

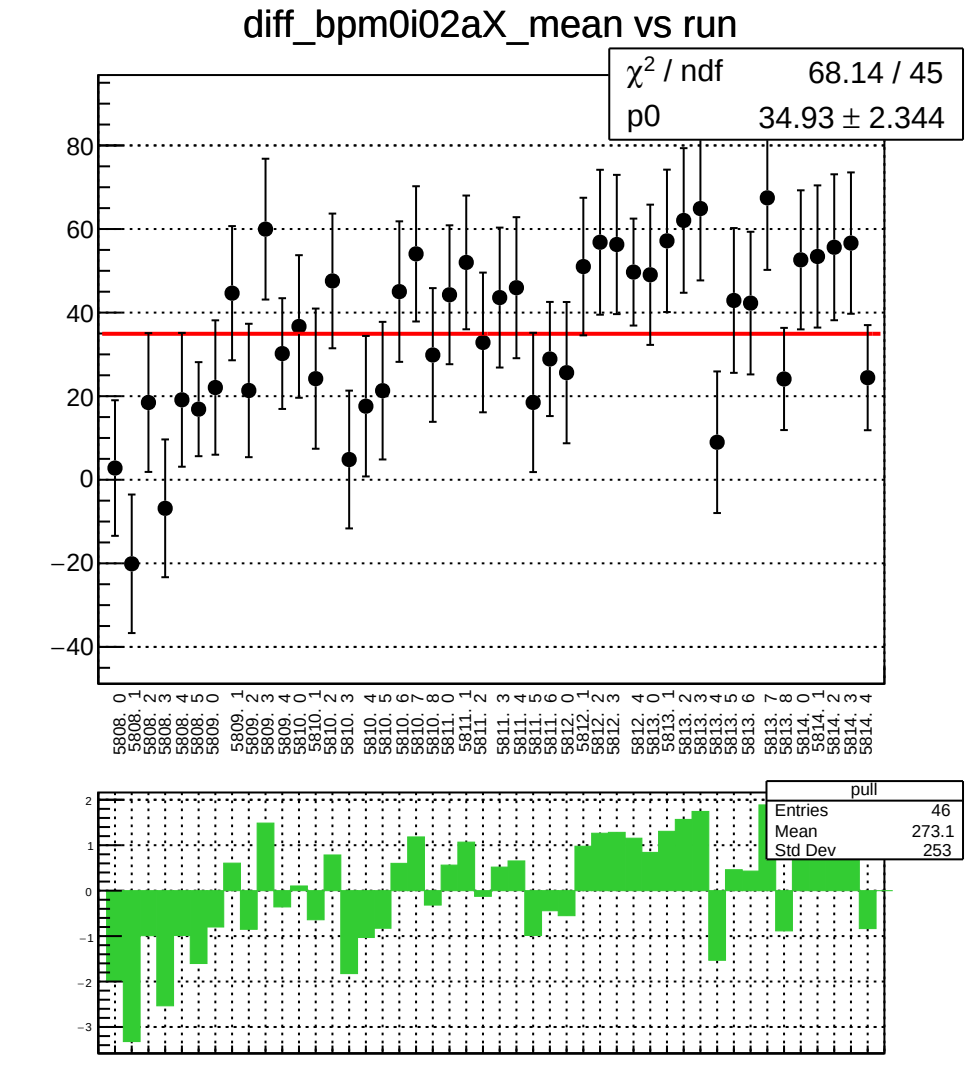

pull1D
Entries 46
Mean 0.000542
Std Dev 0.9254
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

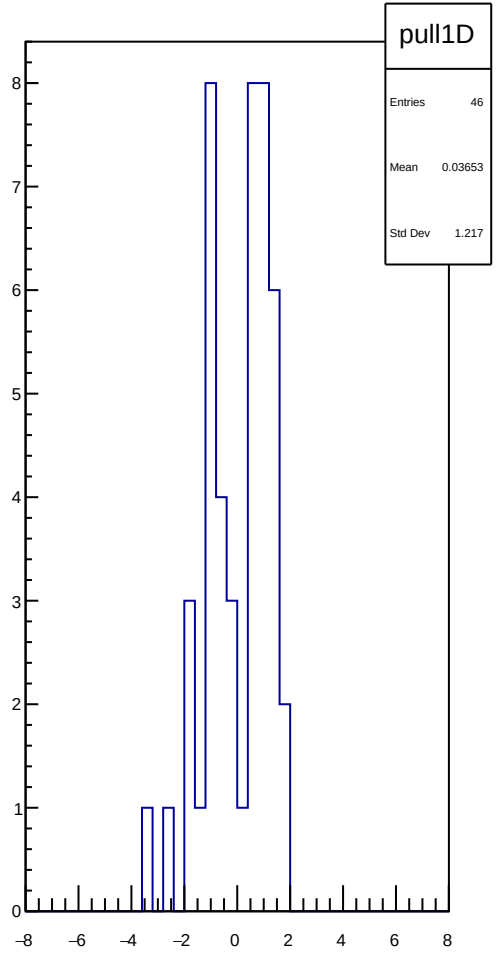

diff_bpm0i02X_rms vs run
χ² / ndf 270.7 / 45
p0 1360 ± 1.428
1420
1400
1380
1360
1340
1320
1300
1280
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

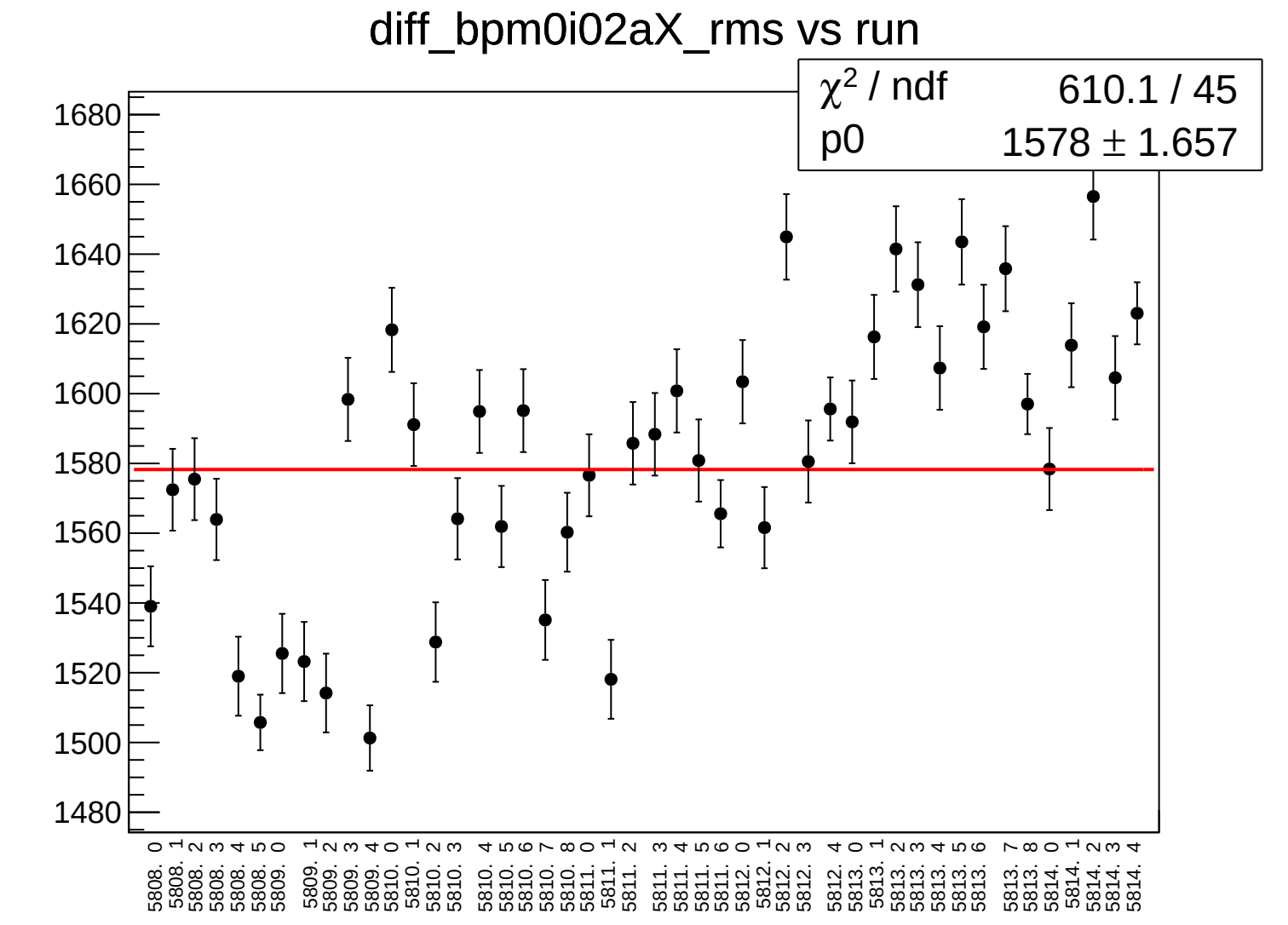

diff_bpm0i02Y_mean vs run
χ² / ndf 68.56 / 45
p0 27.32 ± 1.84
pull
Entries 46
Mean −182.2
Std Dev 201.6

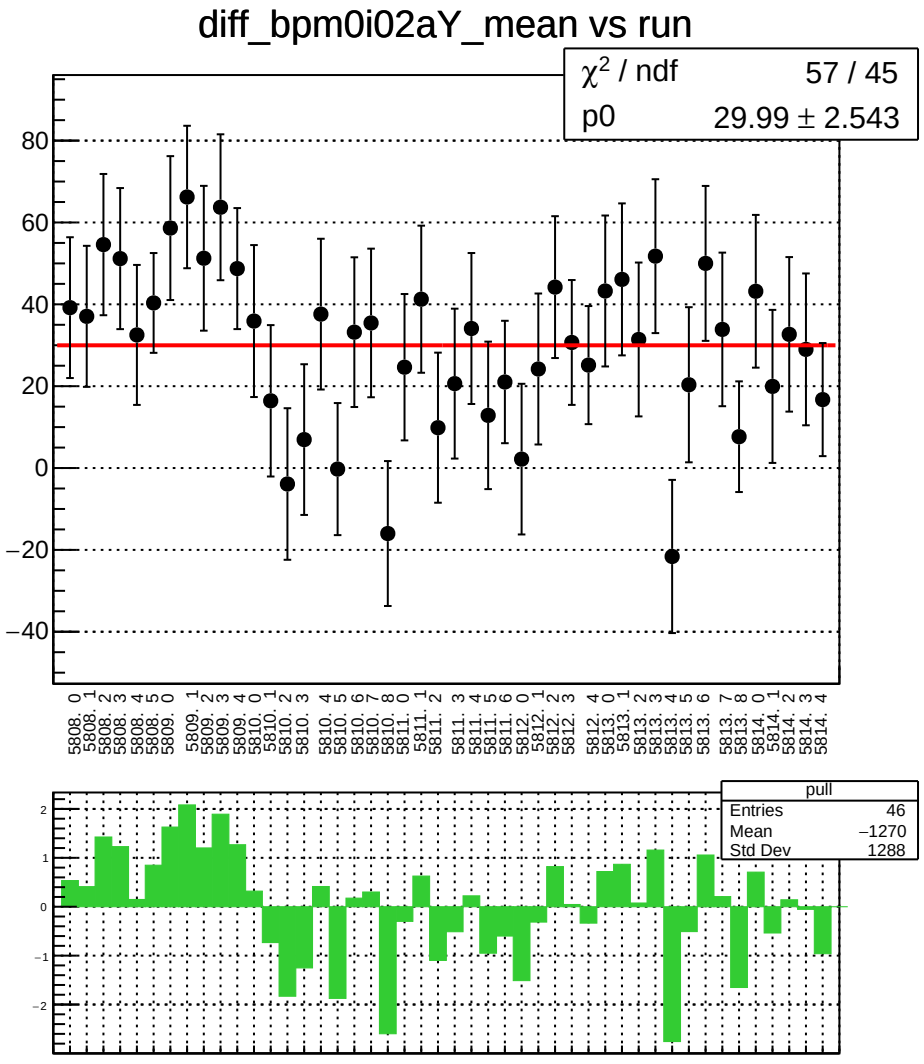

pull1D
Entries 46
Mean 0.03162
Std Dev 1.22

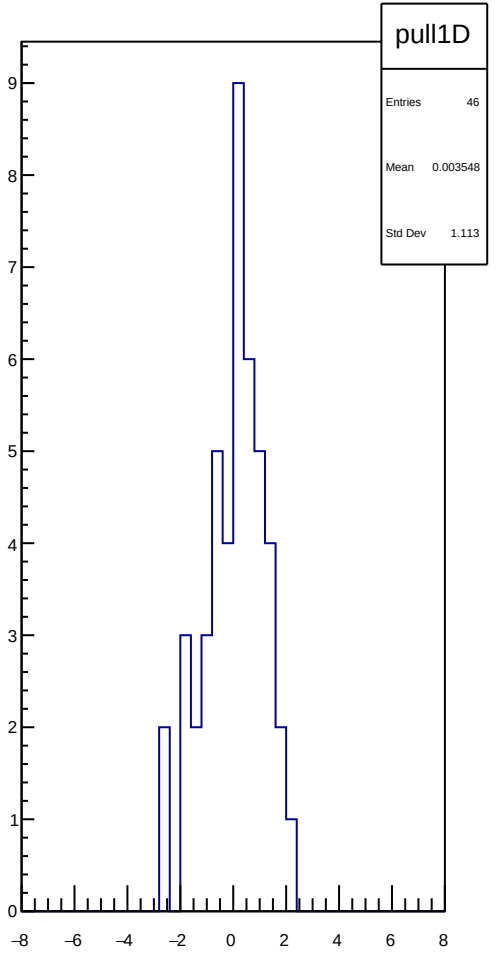

diff_bpm0i02Y_rms vs run
χ² / ndf 622.3 / 45
p0 1239 ± 1.301
1300
1250
1200
1150
1100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

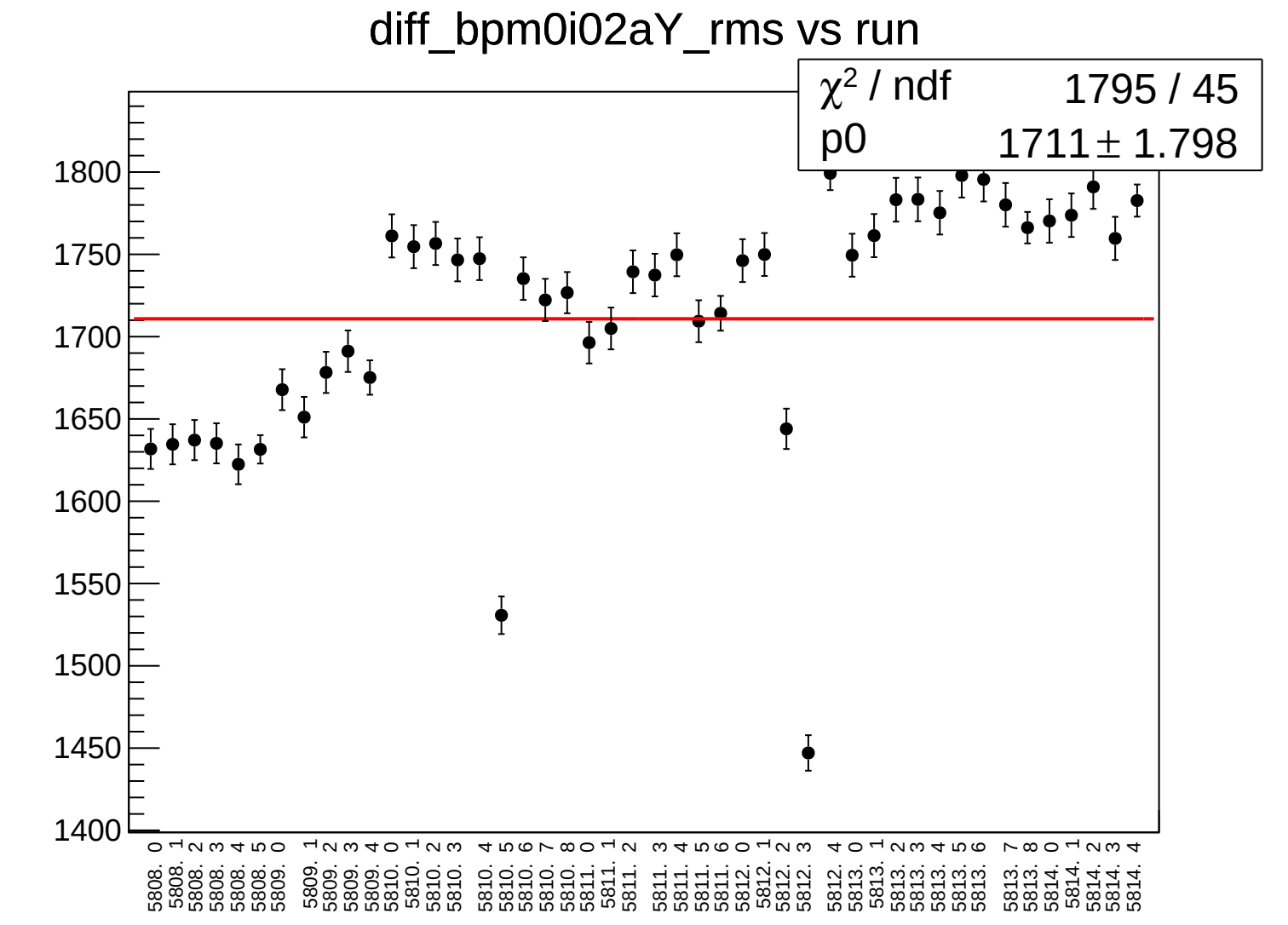

diff_bpm0i02aX_mean vs run
χ² / ndf 68.14 / 45
p0 34.93 ± 2.344
80
60
40
20
0
−20
−40
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 273.1
Std Dev 253
2
1
0
−1
−2
−3

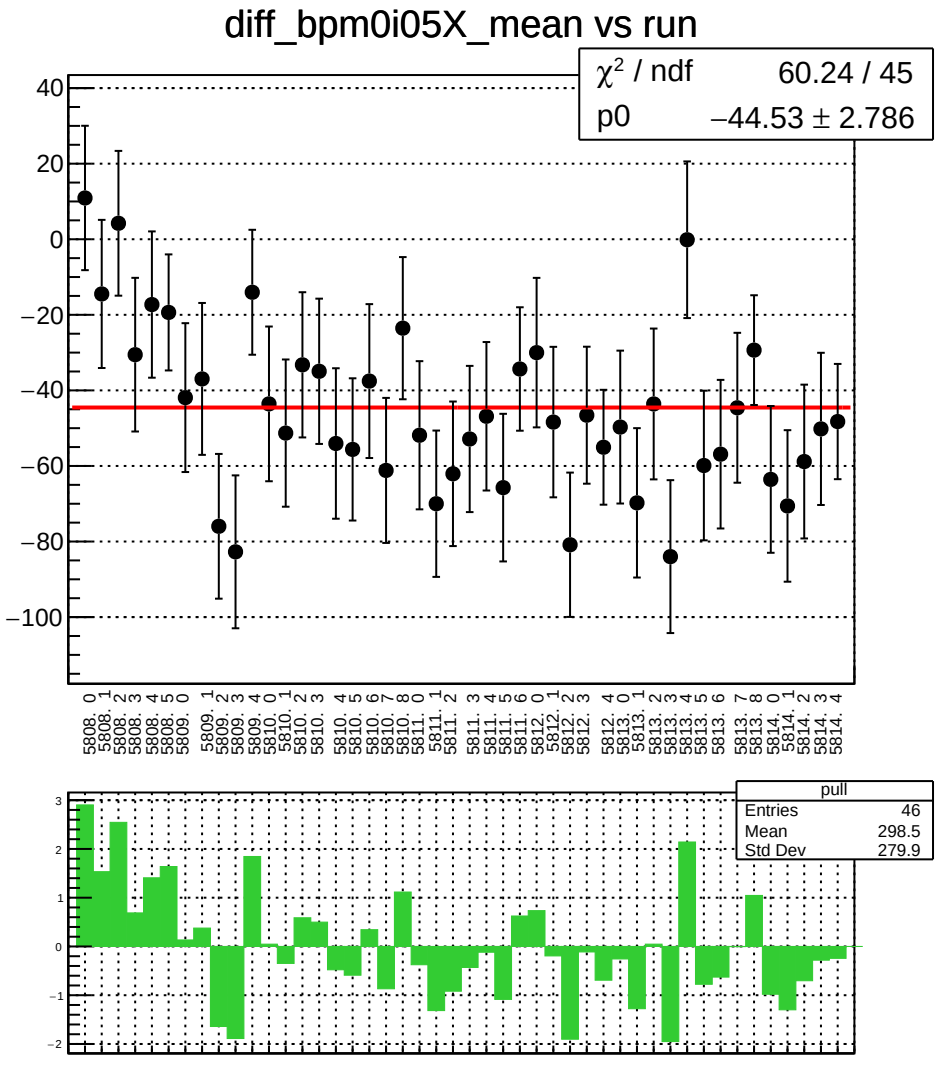

pull1D
Entries 46
Mean 0.03653
Std Dev 1.217
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

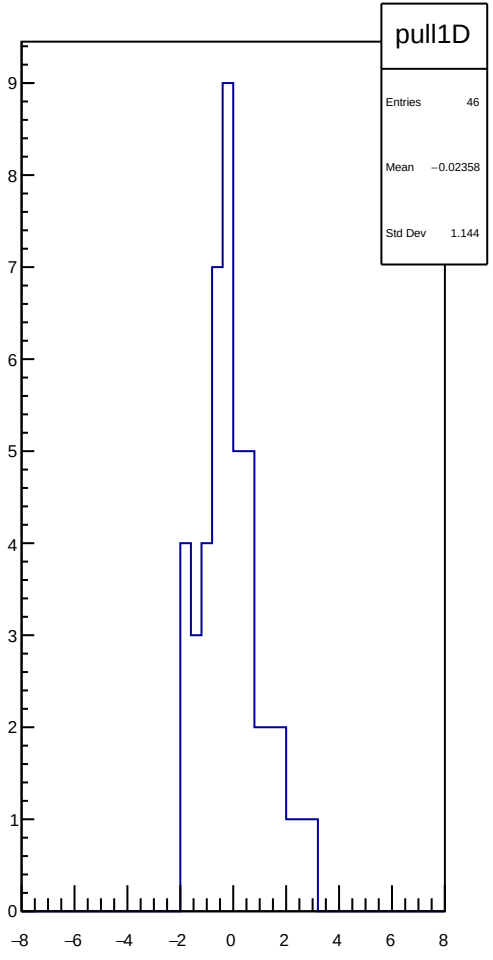

diff_bpm0i02aX_rms vs run
χ² / ndf 610.1 / 45
p0 1578 ± 1.657
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

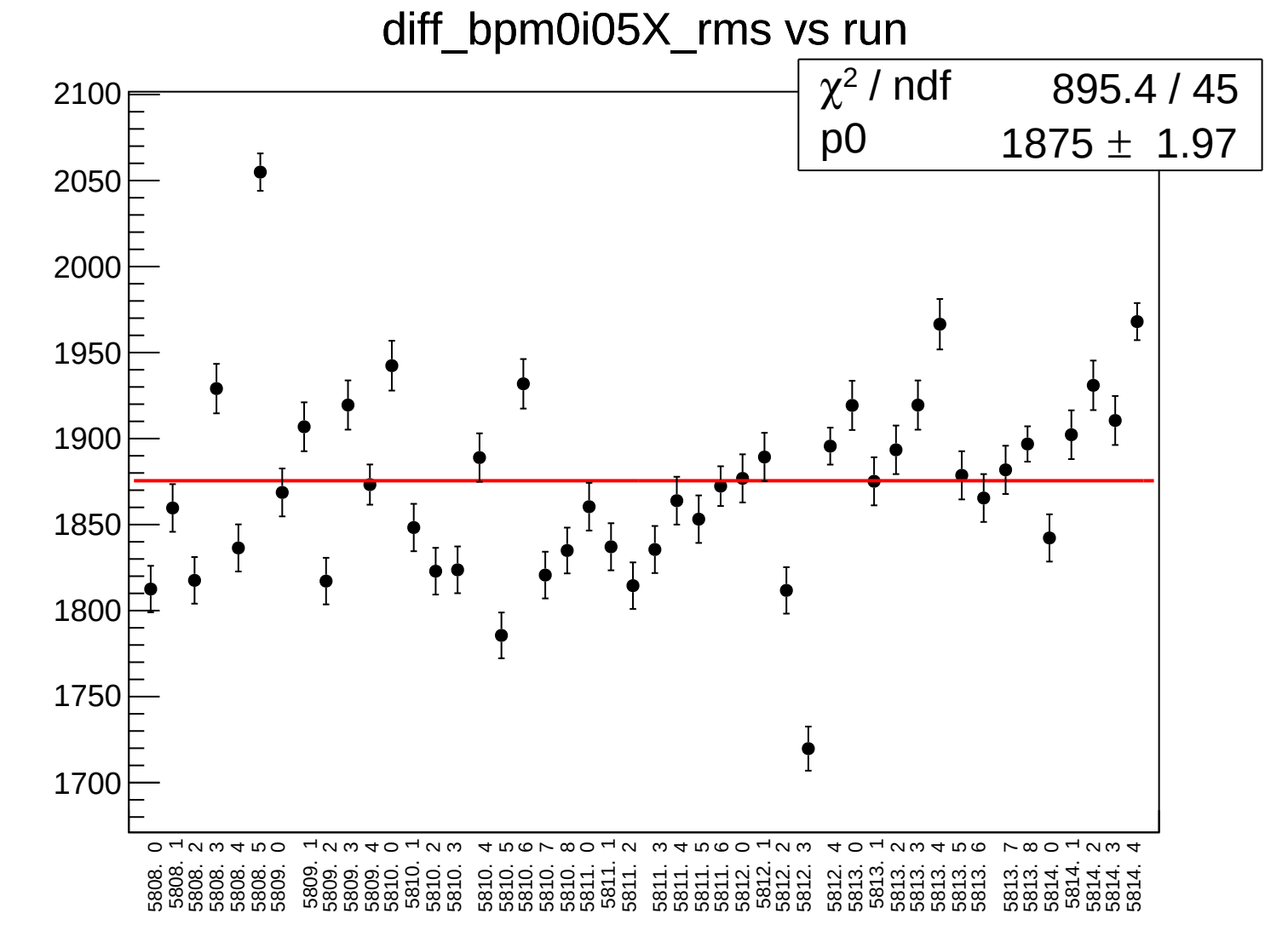

diff_bpm0i02aY_mean vs run
χ² / ndf 57 / 45
p0 29.99 ± 2.543
pull
Entries 46
Mean −1270
Std Dev 1288

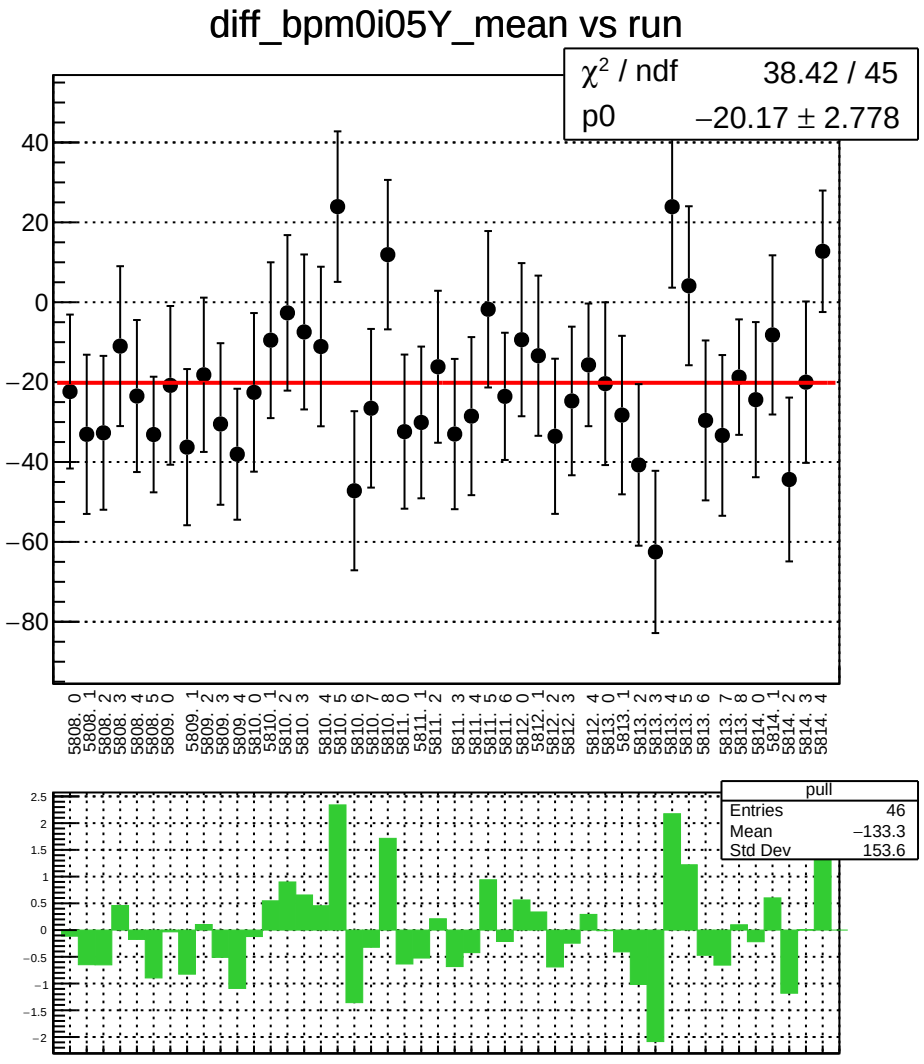

pull1D
Entries 46
Mean 0.003548
Std Dev 1.113

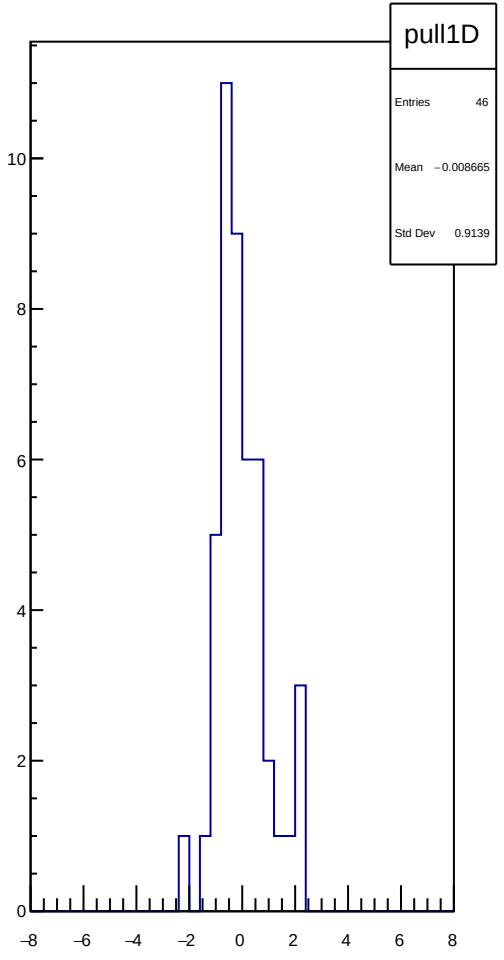

diff_bpm0i02aY_rms vs run
χ² / ndf 1795 / 45
p0 1711 ± 1.798
1800
1750
1700
1650
1600
1550
1500
1450
1400
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

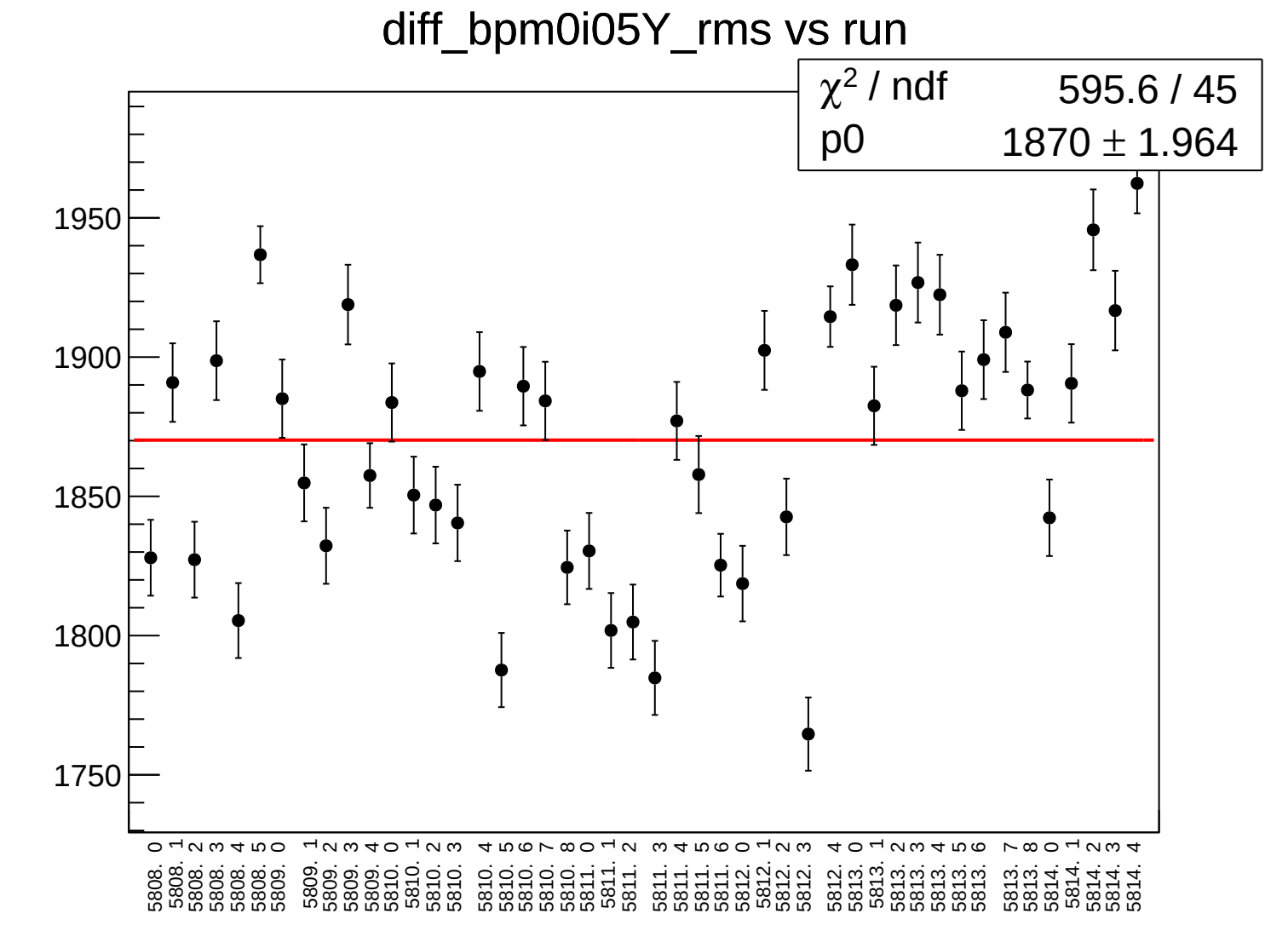

diff_bpm0i05X_mean vs run
χ² / ndf 60.24 / 45
p0 −44.53 ± 2.786
pull
Entries 46
Mean 298.5
Std Dev 279.9

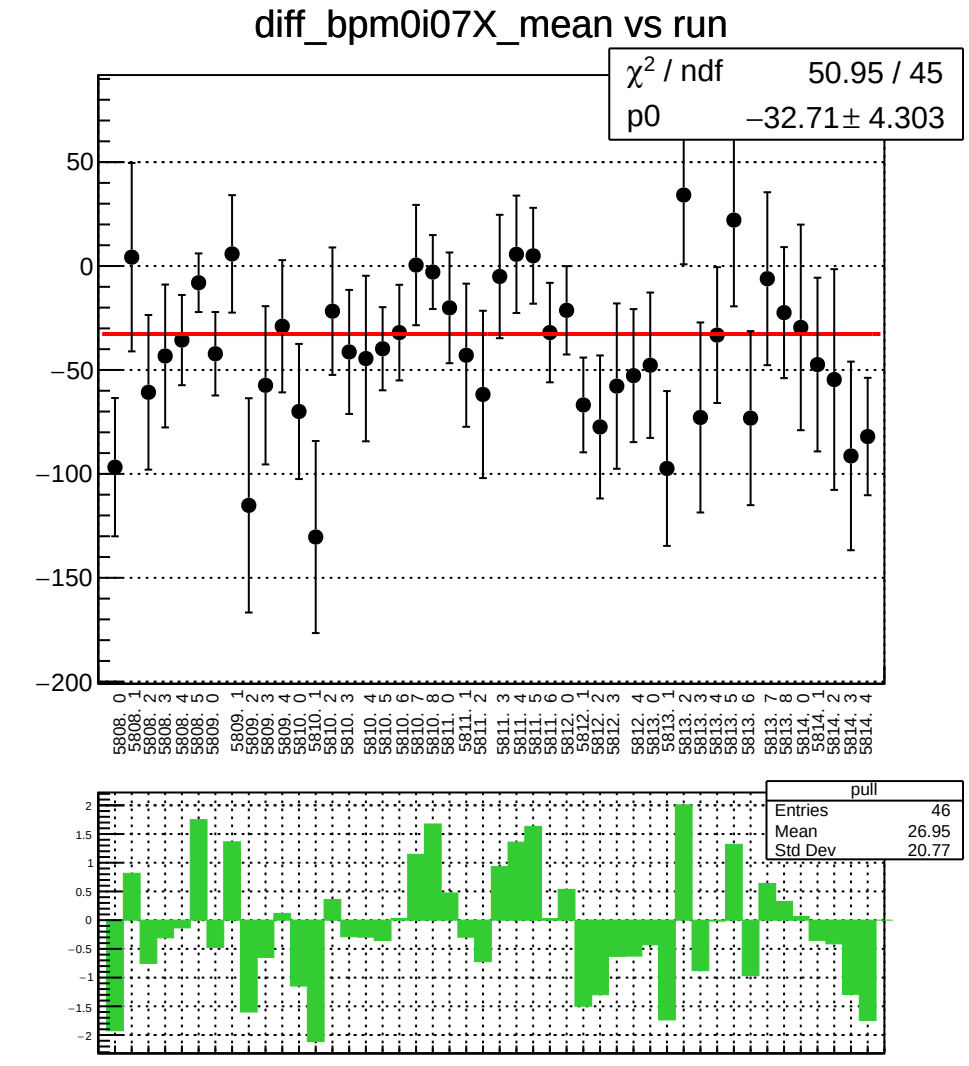

pull1D
Entries 46
Mean −0.02358
Std Dev 1.144

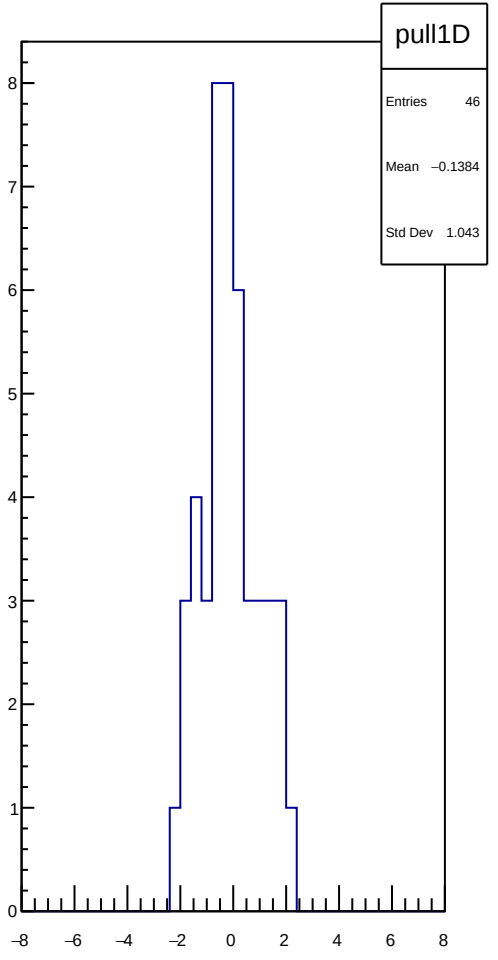

diff_bpm0i05X_rms vs run
χ² / ndf 895.4 / 45
p0 1875 ± 1.97
2100
2050
2000
1950
1900
1850
1800
1750
1700
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

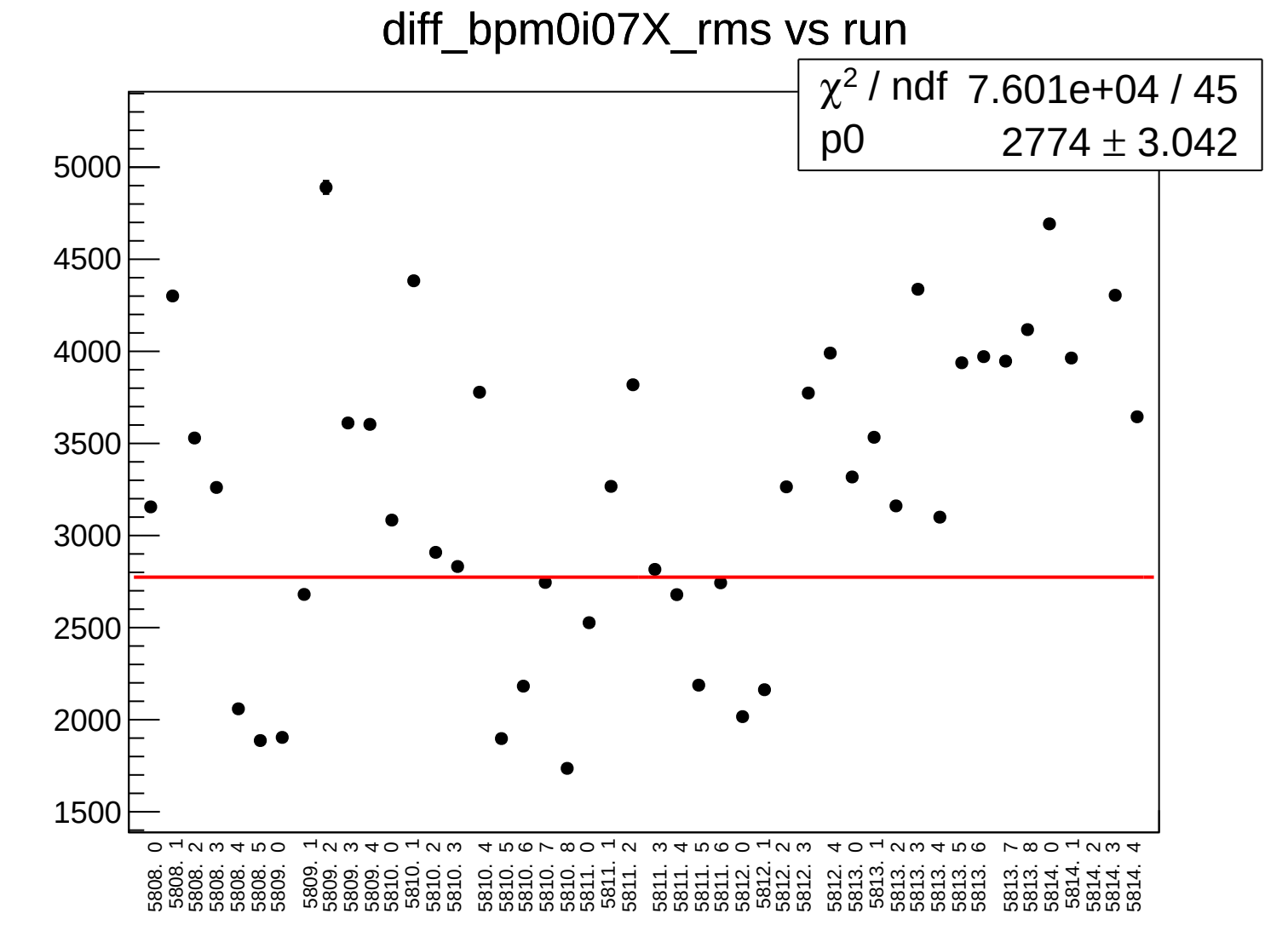

diff_bpm0i05Y_mean vs run
χ² / ndf 38.42 / 45
p0 −20.17 ± 2.778
pull
Entries 46
Mean −133.3
Std Dev 153.6

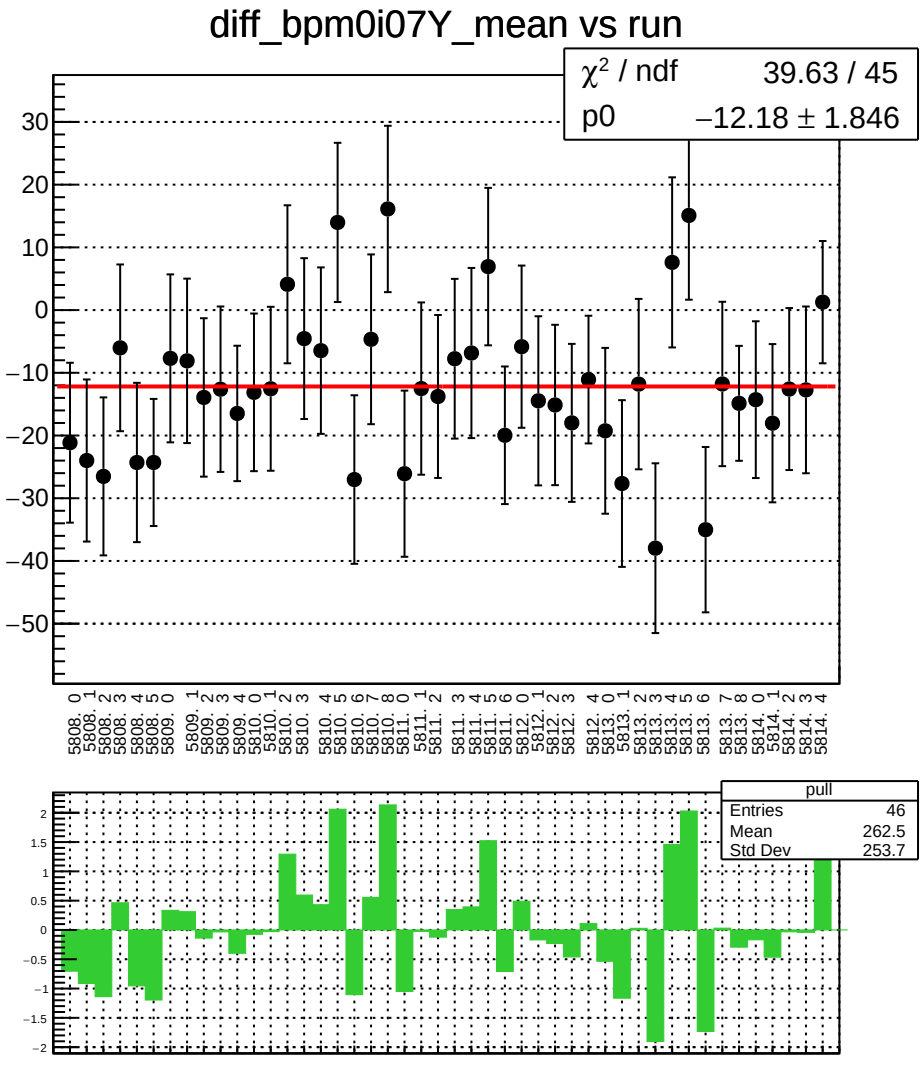

pull1D
Entries 46
Mean −0.008665
Std Dev 0.9139

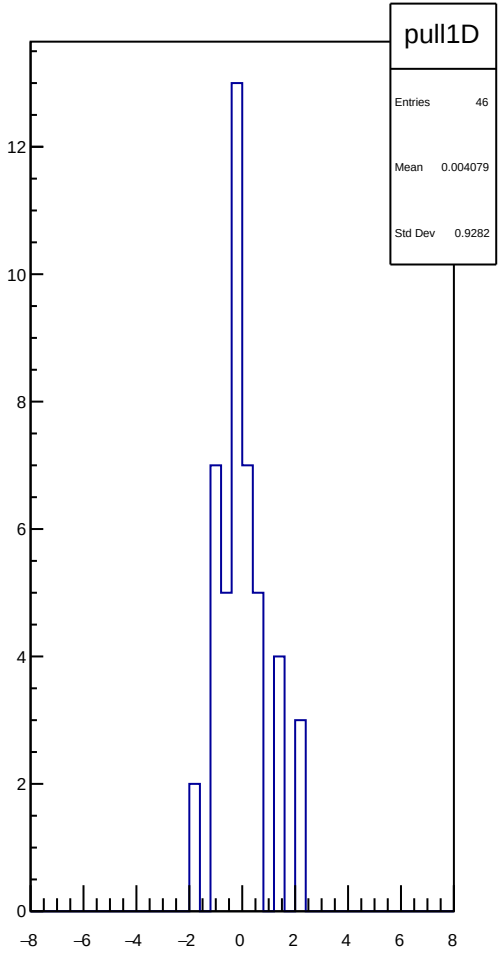

diff_bpm0i05Y_rms vs run
χ² / ndf 595.6 / 45
p0 1870 ± 1.964
1950
1900
1850
1800
1750
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

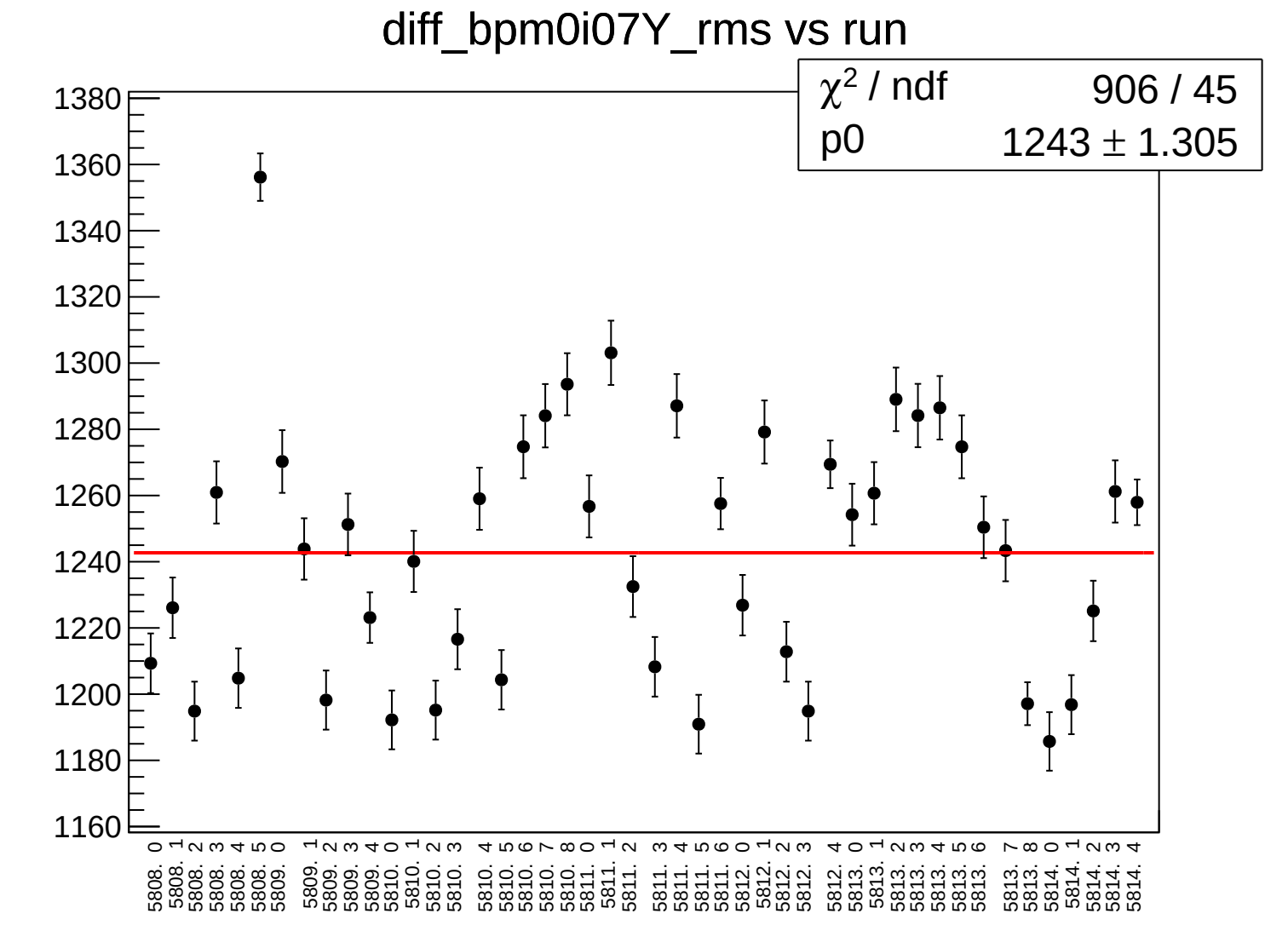

diff_bpm0i07X_mean vs run
χ² / ndf 50.95 / 45
p0 −32.71 ± 4.303
50
0
−50
−100
−150
−200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 26.95
Std Dev 20.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

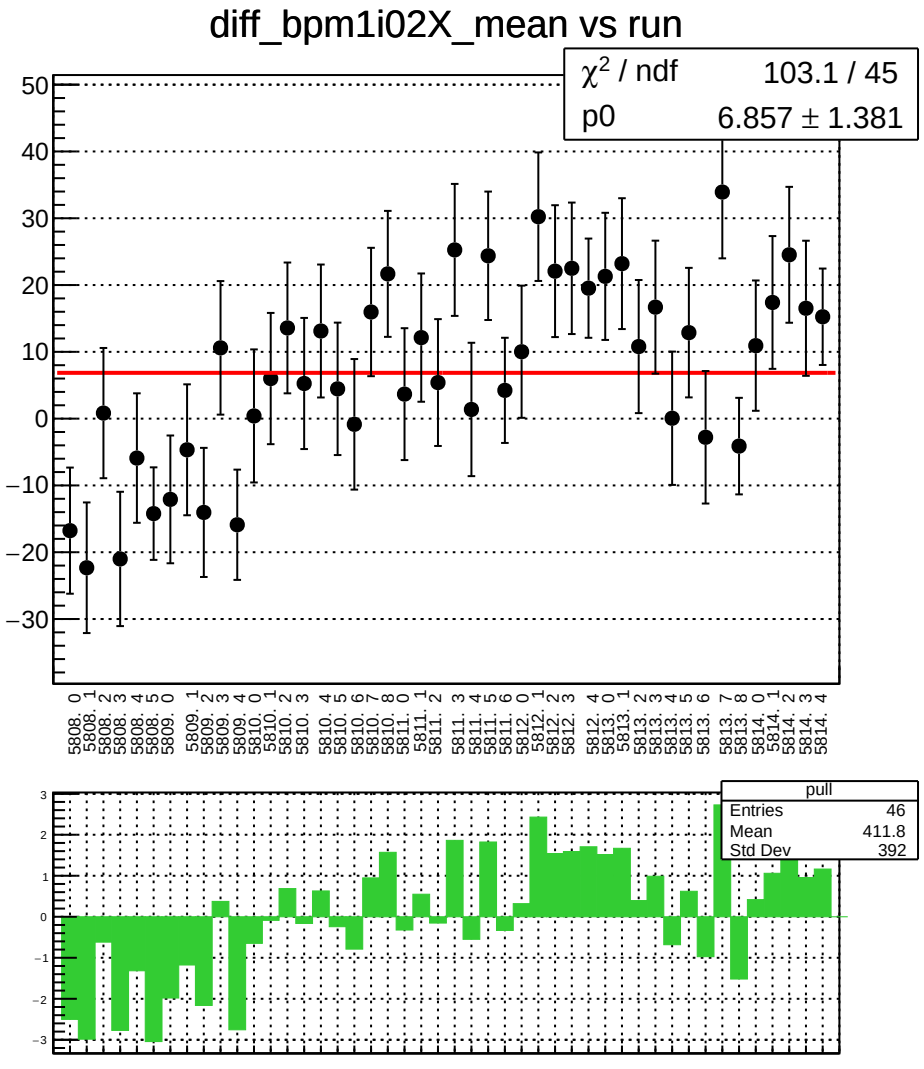

pull1D
Entries 46
Mean −0.1384
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

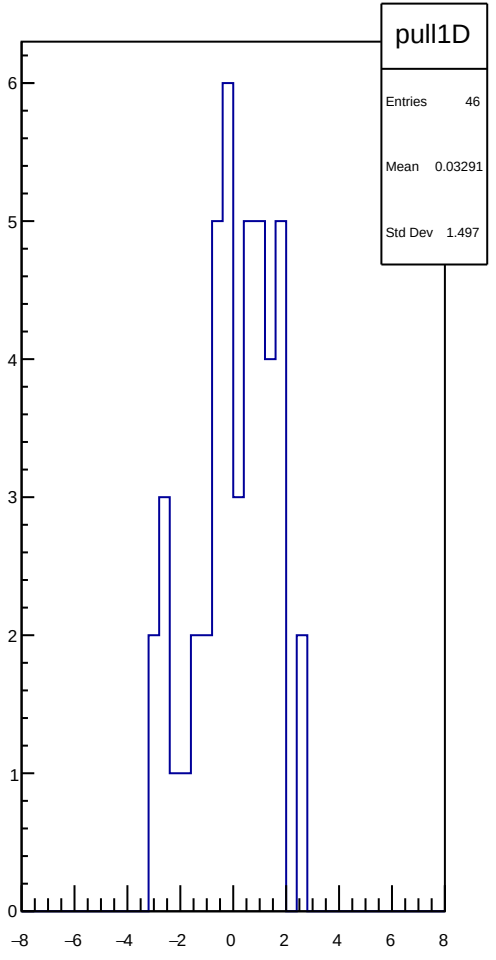

diff_bpm0i07X_rms vs run
χ² / ndf 7.601e+04 / 45
p0 2774 ± 3.042
5000
4500
4000
3500
3000
2500
2000
1500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

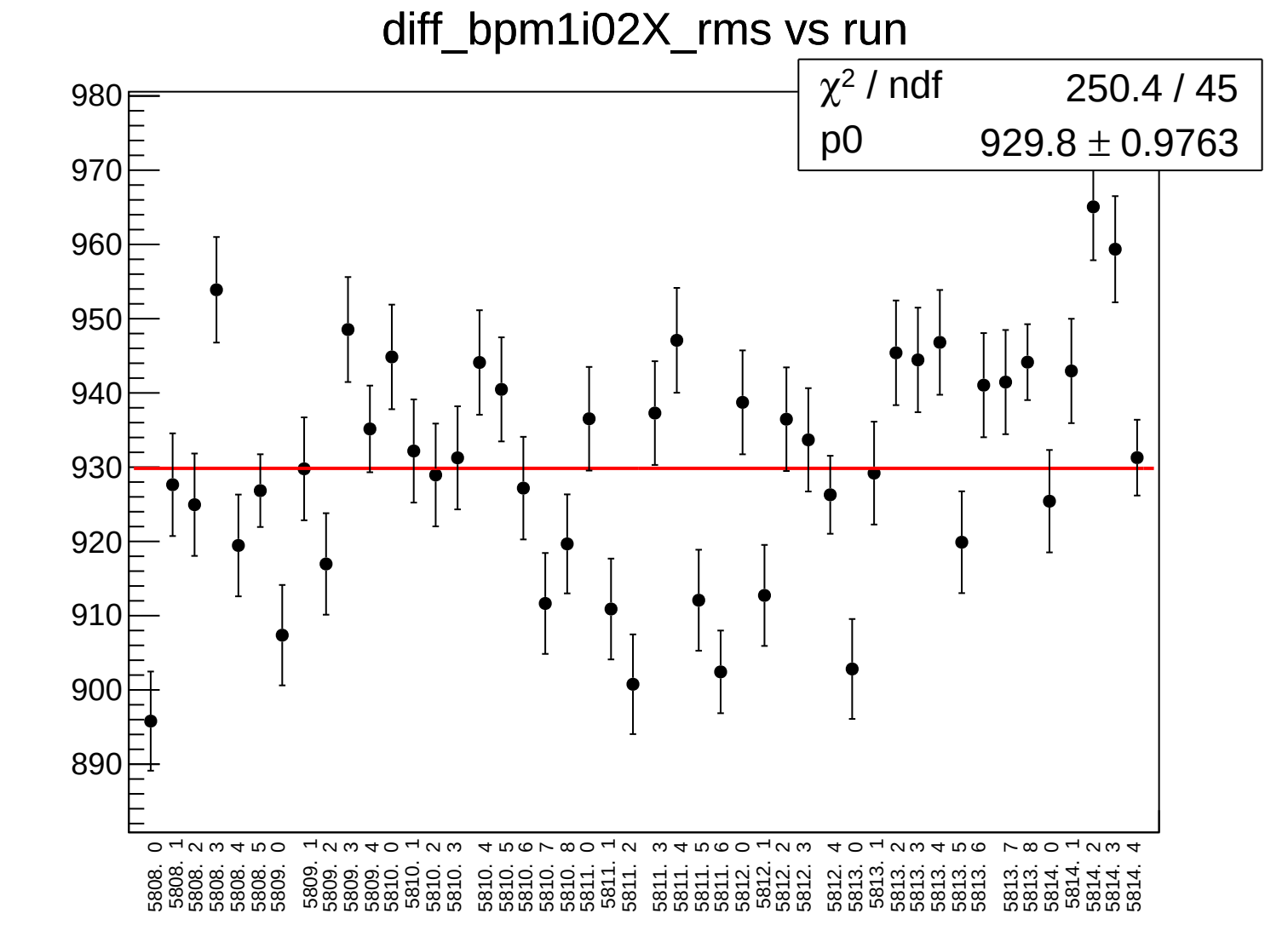

diff_bpm0i07Y_mean vs run
χ² / ndf 39.63 / 45
p0 −12.18 ± 1.846
pull
Entries 46
Mean 262.5
Std Dev 253.7

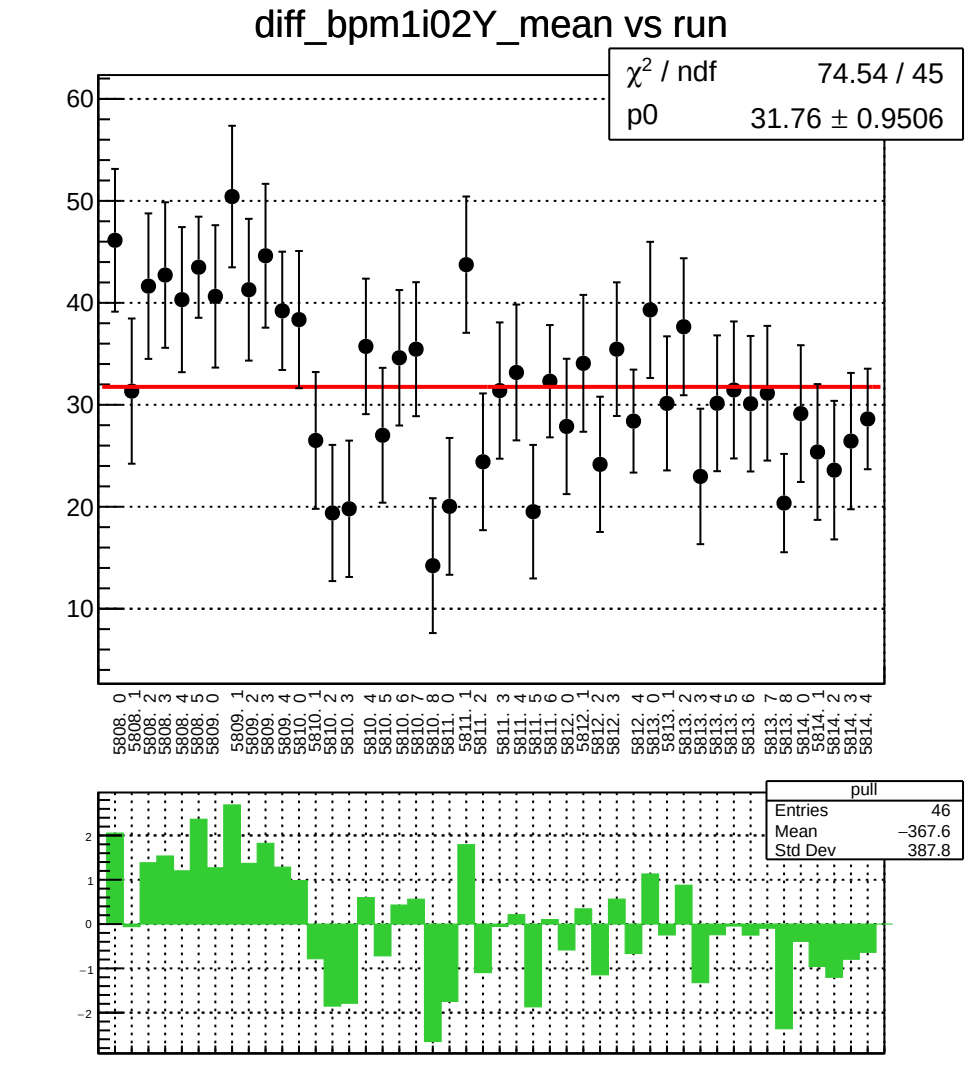

pull1D
Entries 46
Mean 0.004079
Std Dev 0.9282

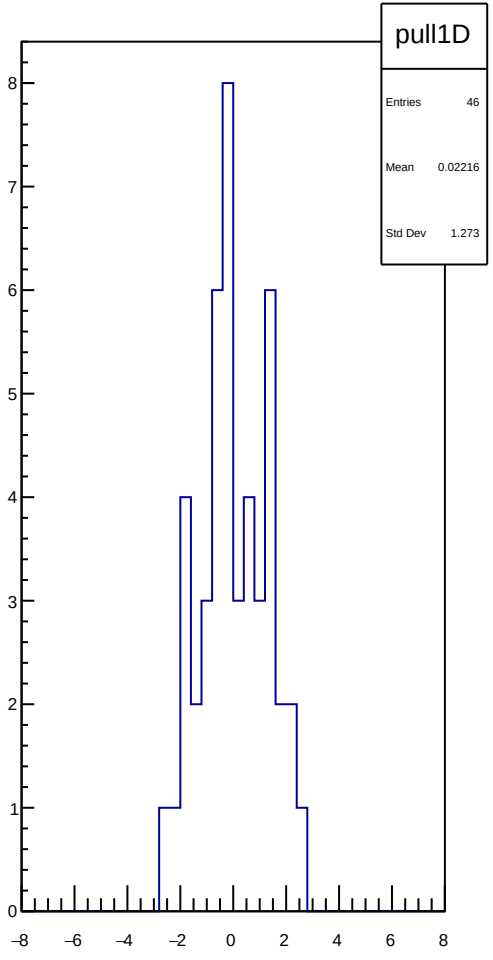

diff_bpm0i07Y_rms vs run
χ² / ndf 906 / 45
p0 1243 ± 1.305
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

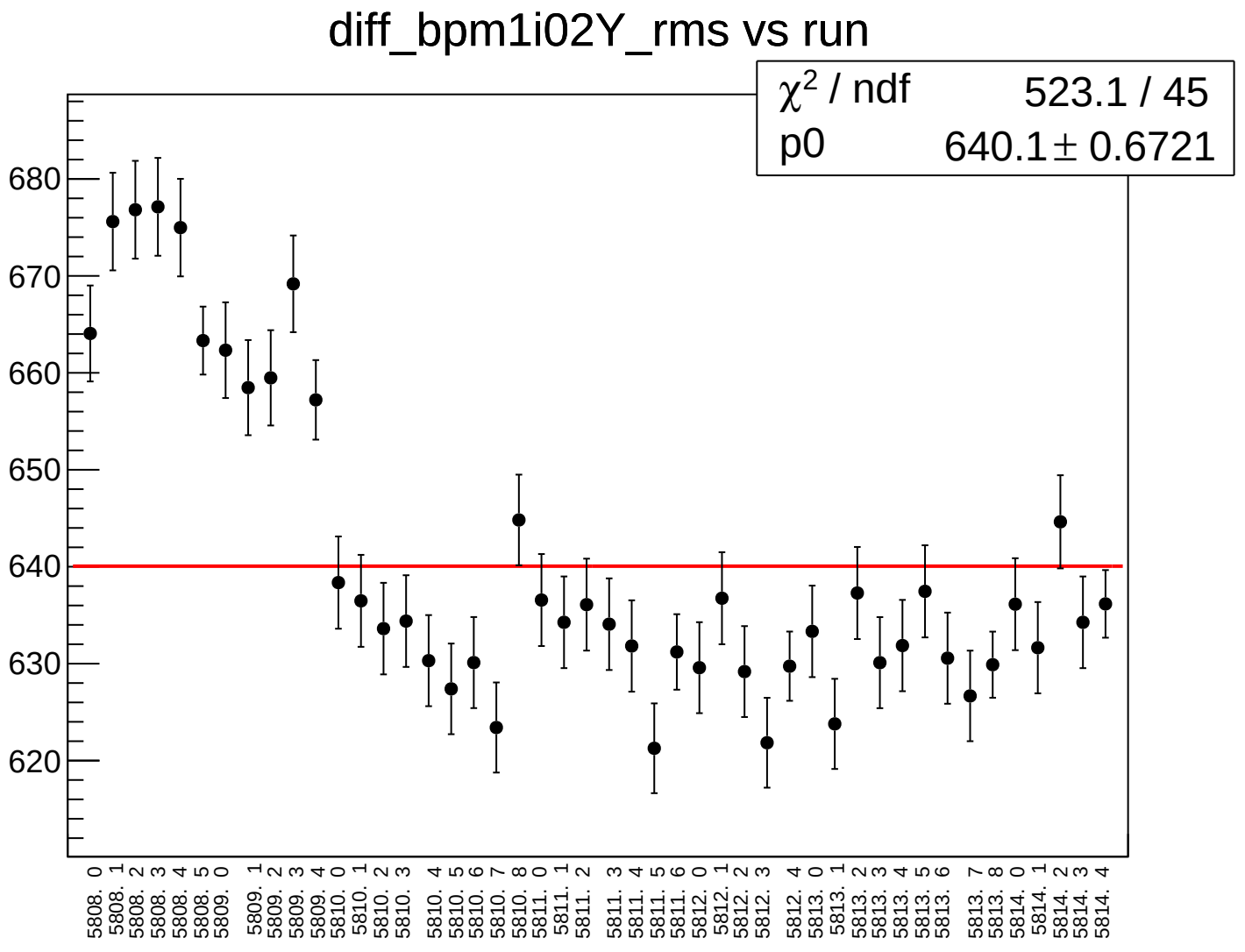

diff_bpm1i02X_mean vs run
χ² / ndf 103.1 / 45
p0 6.857 ± 1.381
pull
Entries 46
Mean 411.8
Std Dev 392

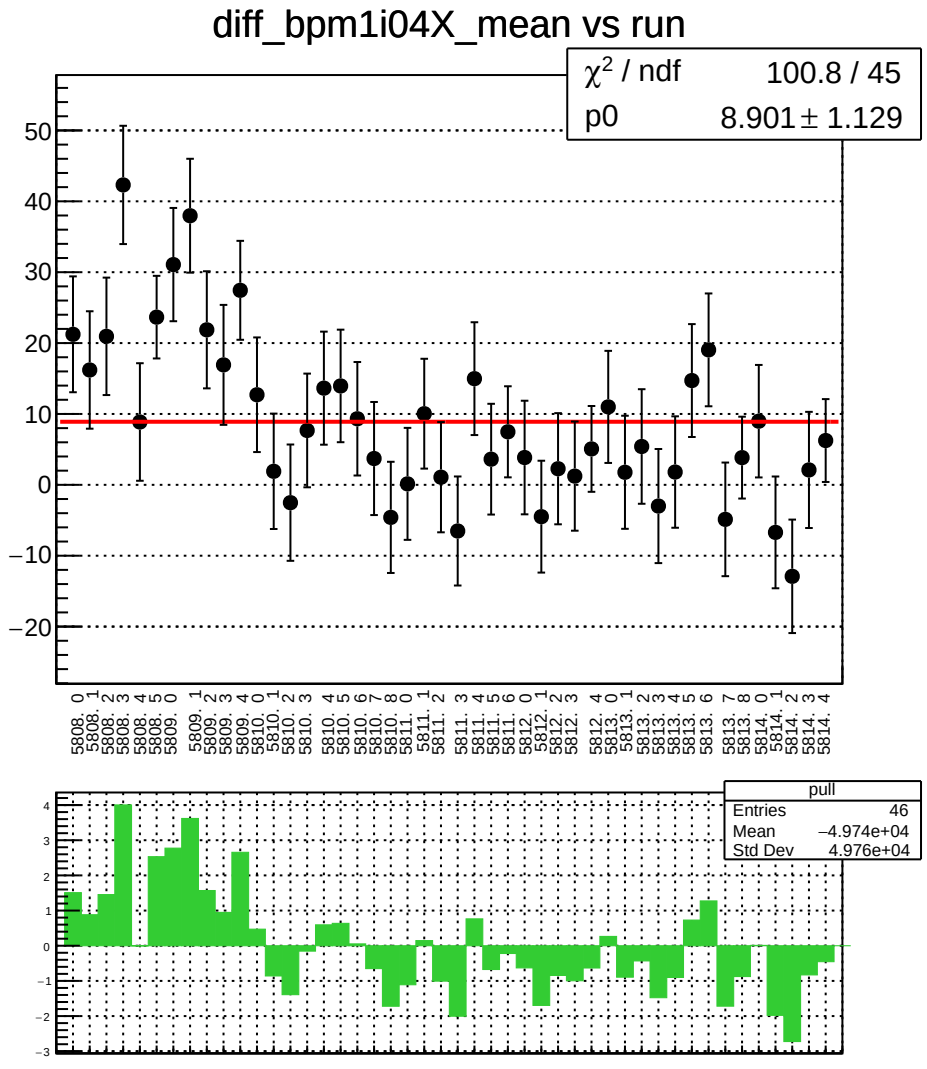

pull1D
Entries 46
Mean 0.03291
Std Dev 1.497

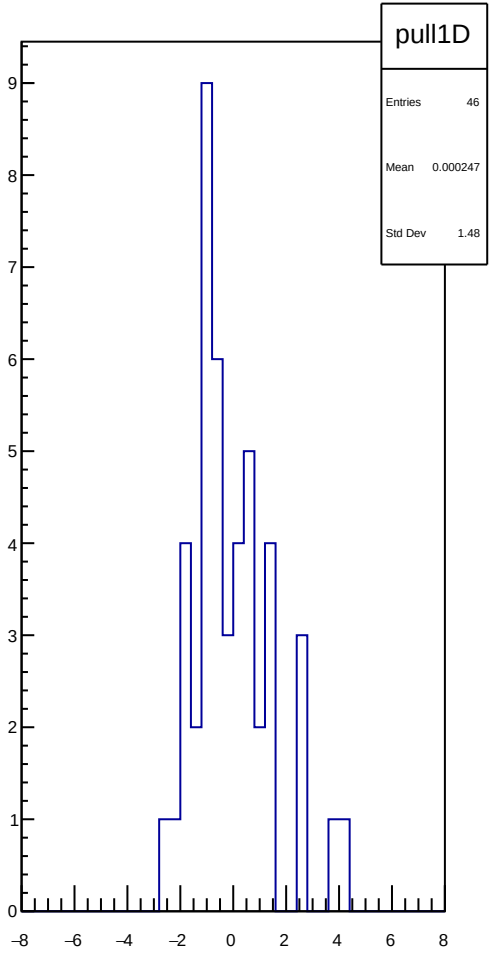

diff_bpm1i02X_rms vs run
χ² / ndf 250.4 / 45
p0 929.8 ± 0.9763
980
970
960
950
940
930
920
910
900
890
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

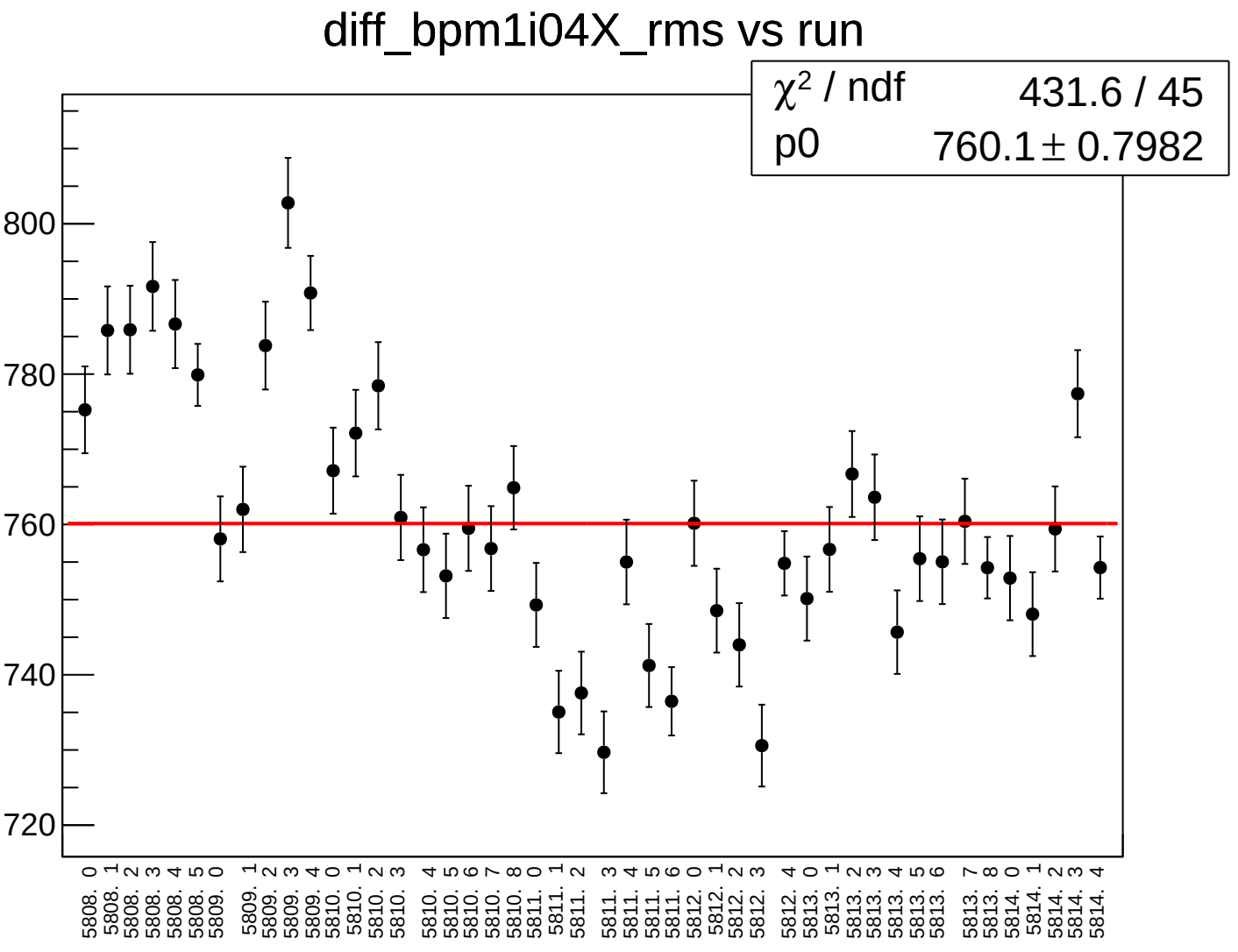

diff_bpm1i02Y_mean vs run
χ^2 / ndf 74.54 / 45
p0 31.76 ± 0.9506
pull
Entries 46
Mean −367.6
Std Dev 387.8

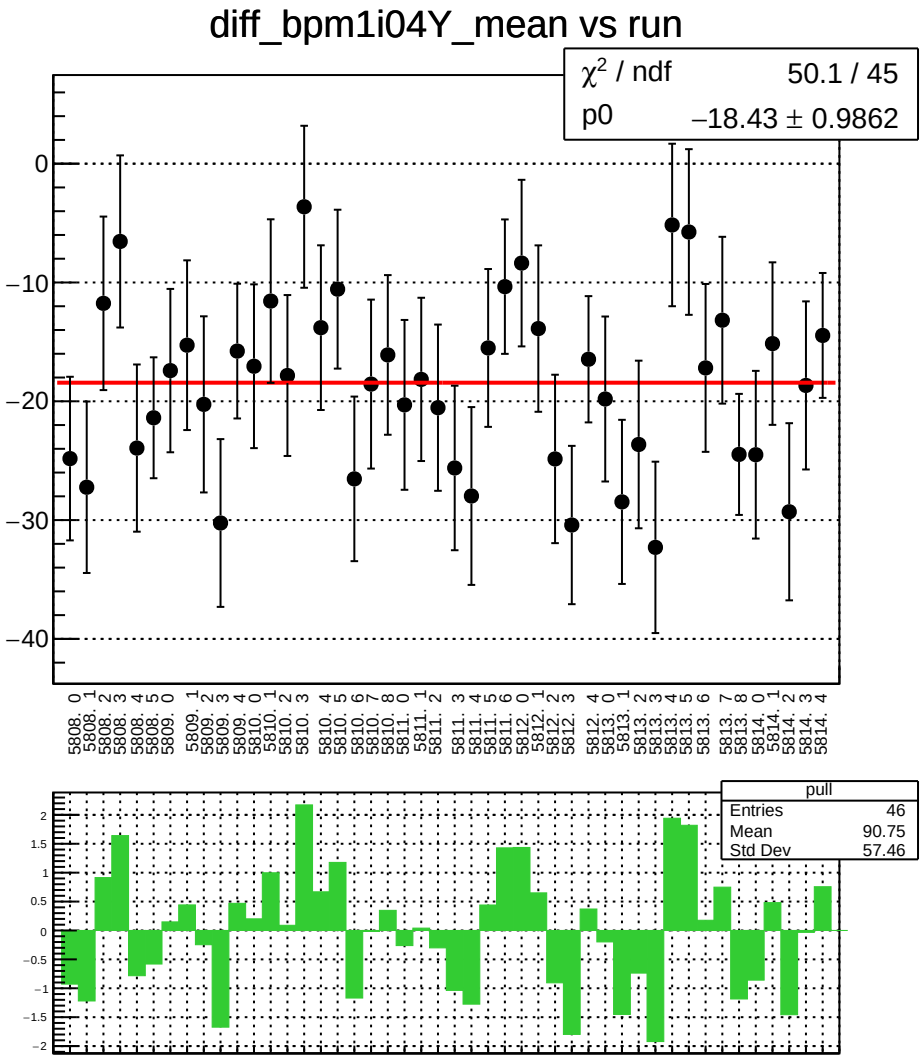

pull1D
Entries 46
Mean 0.02216
Std Dev 1.273

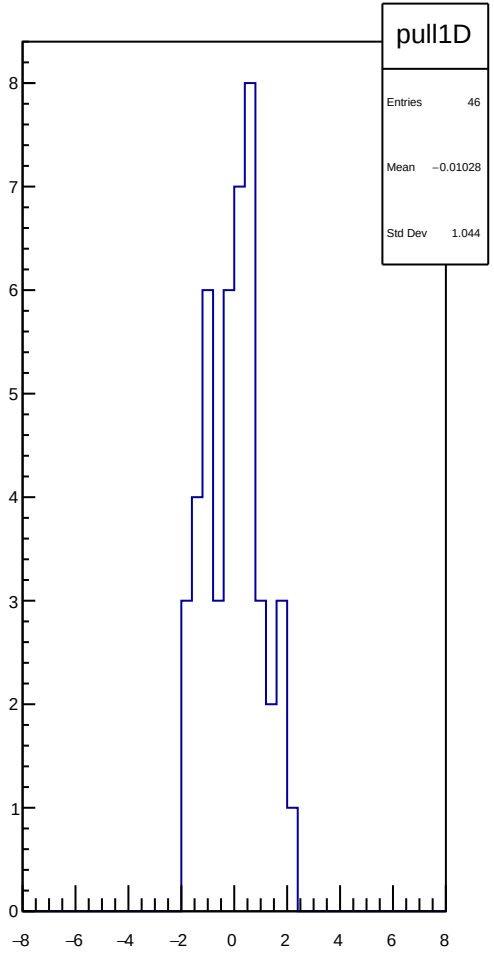

diff_bpm1i02Y_rms vs run
χ² / ndf 523.1 / 45
p0 640.1 ± 0.6721
680
670
660
650
640
630
620
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

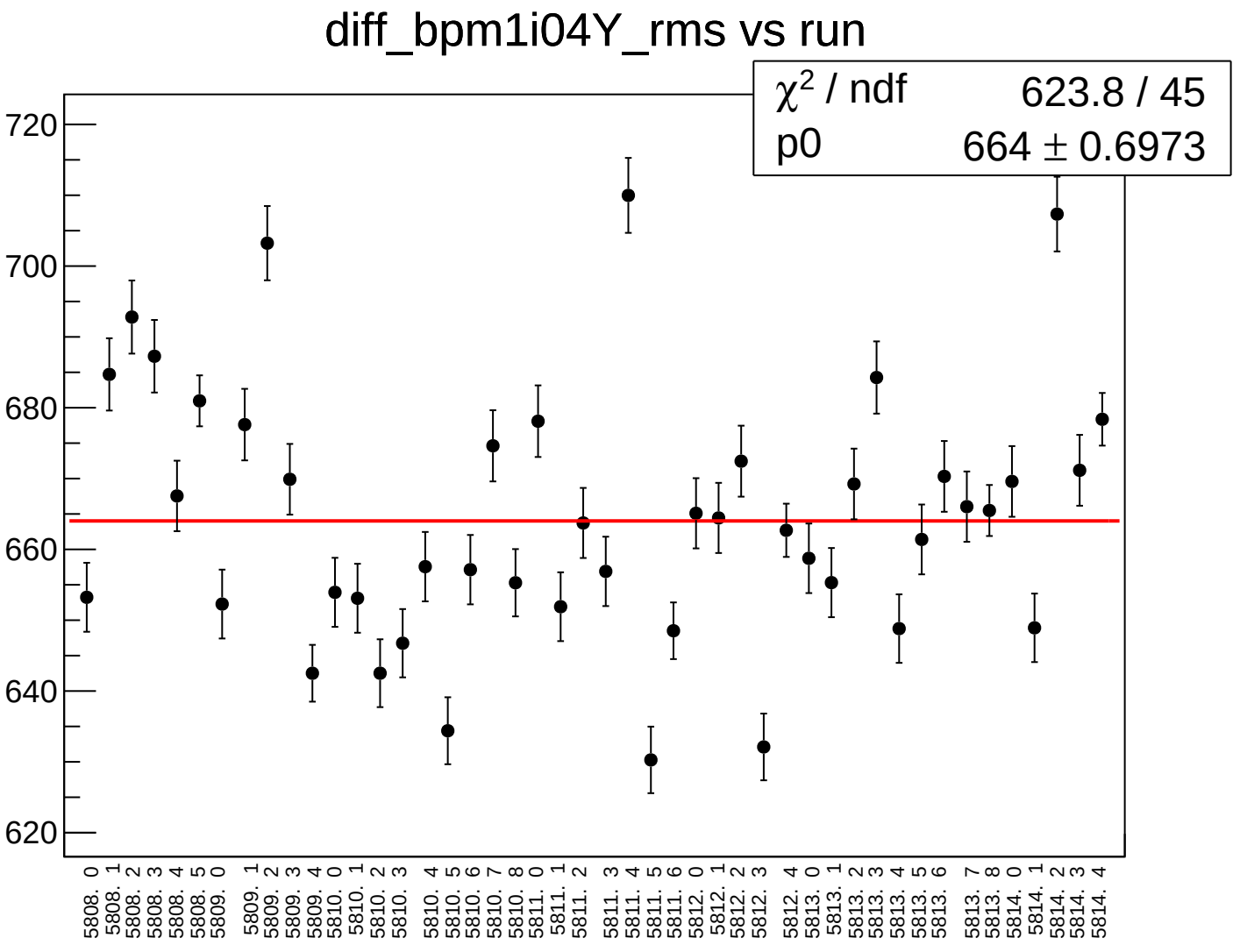

diff_bpm1i04X_mean vs run
χ² / ndf 100.8 / 45
p0 8.901 ± 1.129
pull
Entries 46
Mean −4.974e+04
Std Dev 4.976e+04

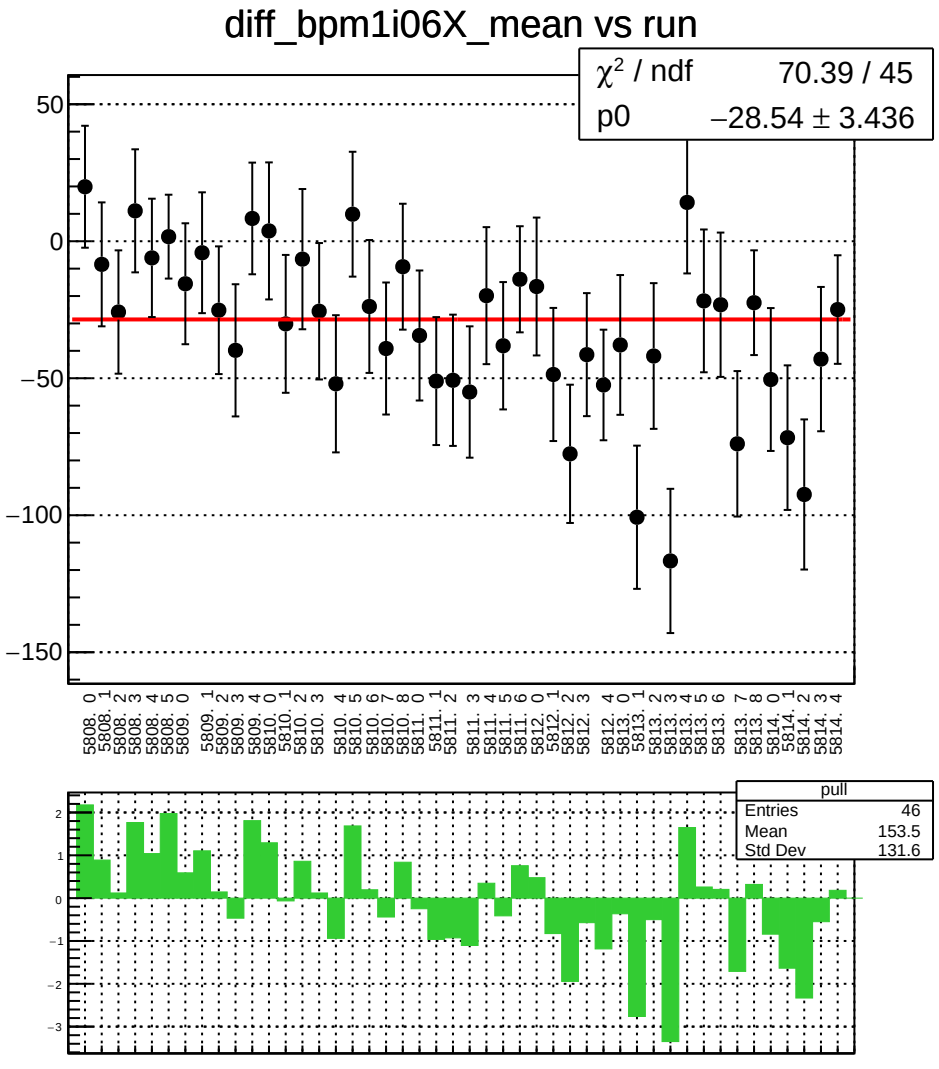

pull1D
Entries 46
Mean 0.000247
Std Dev 1.48

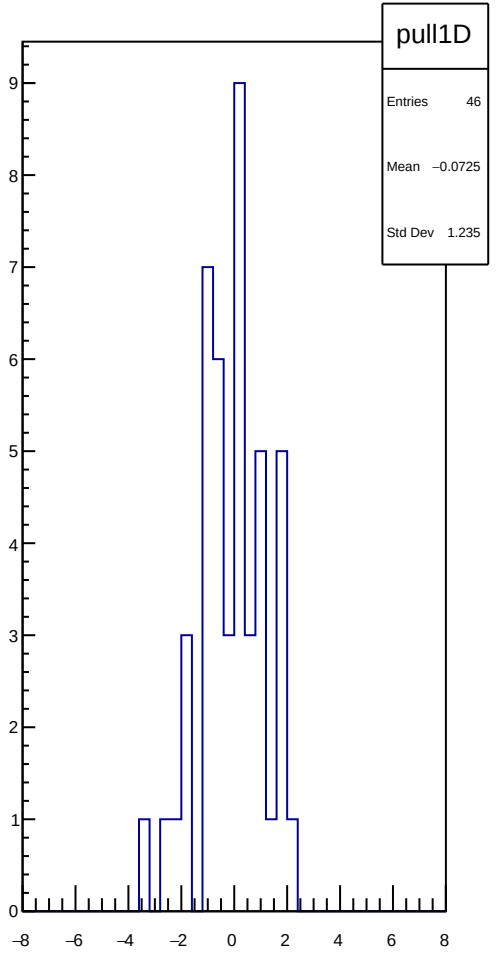

diff_bpm1i04X_rms vs run
χ² / ndf 431.6 / 45
p0 760.1 ± 0.7982
800
780
760
740
720
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

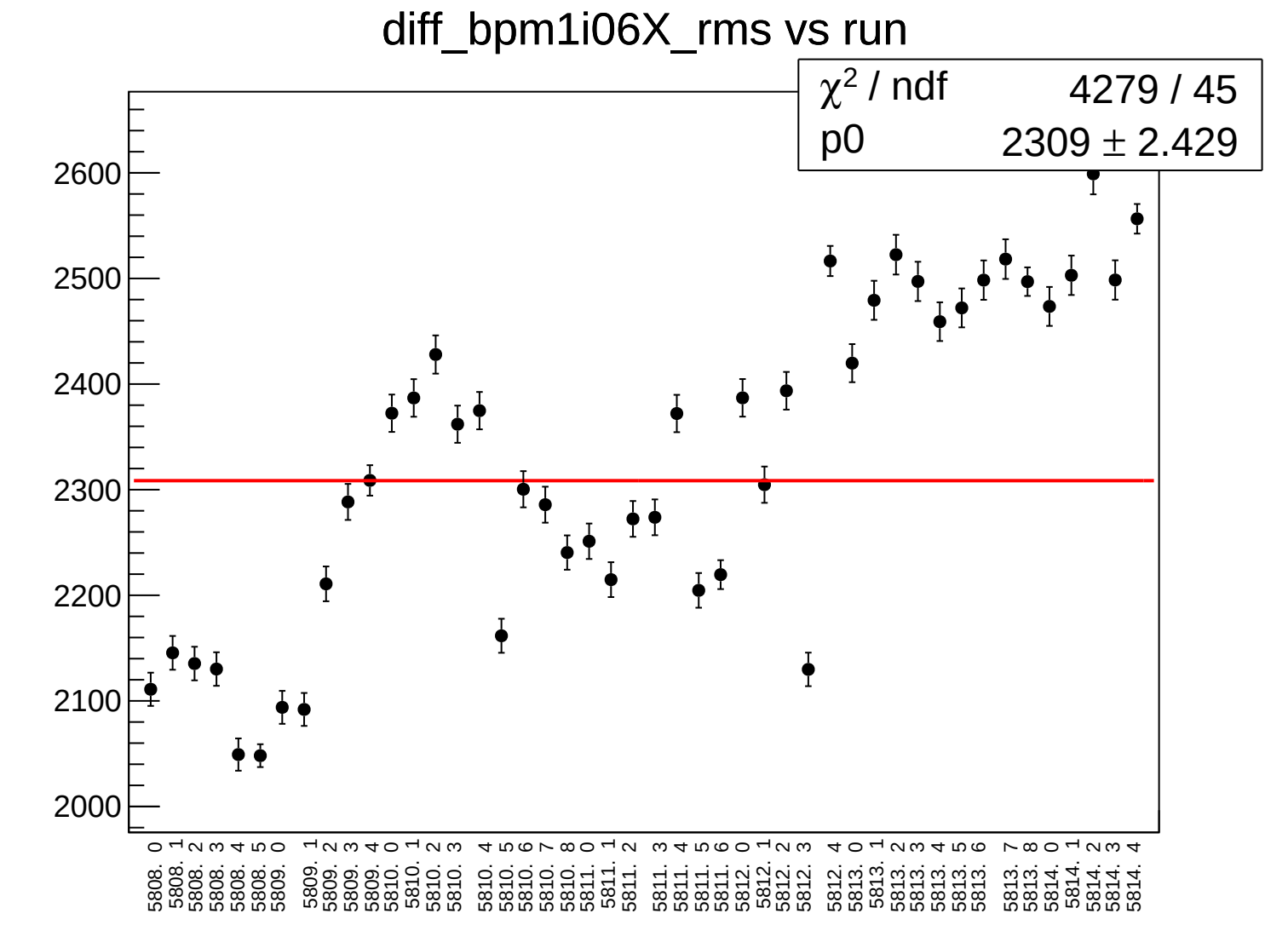

diff_bpm1i04Y_mean vs run
χ² / ndf 50.1 / 45
p0 −18.43 ± 0.9862
0
−10
−20
−30
−40
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 90.75
Std Dev 57.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

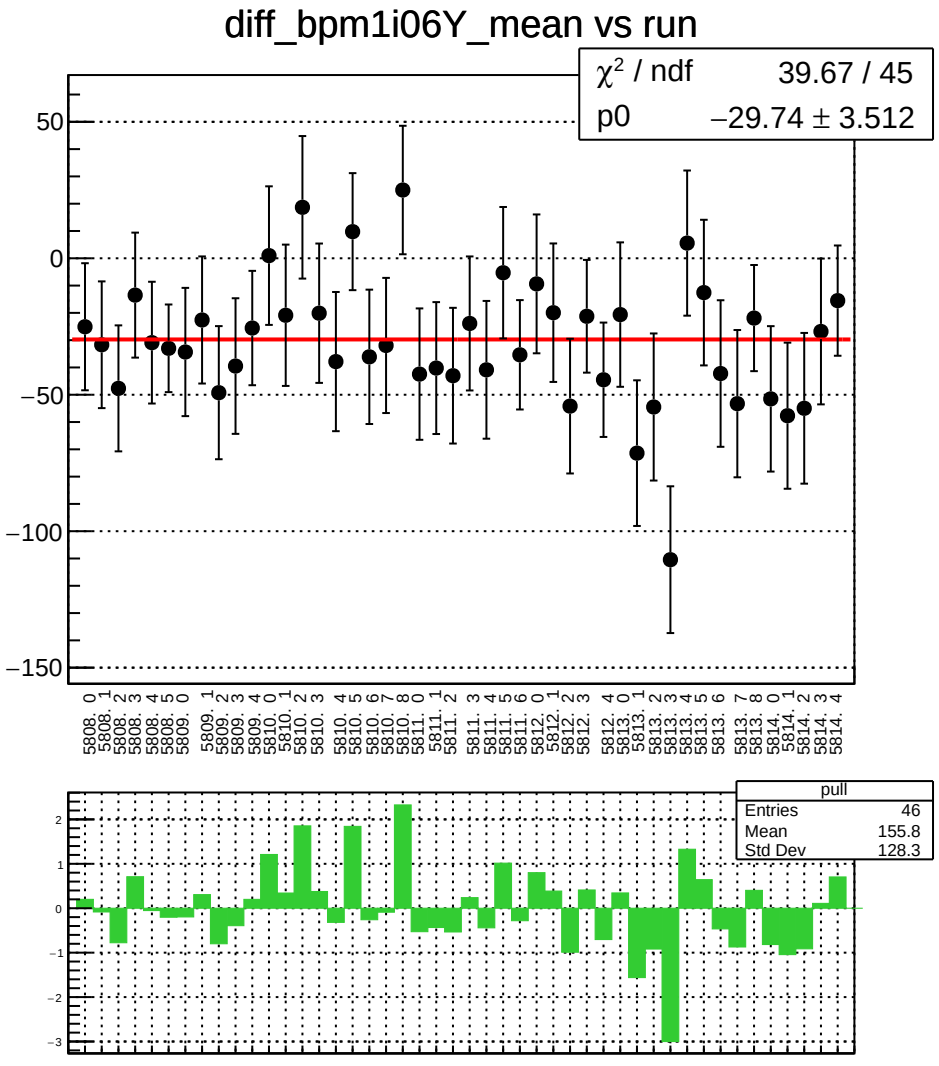

pull1D
Entries 46
Mean −0.01028
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

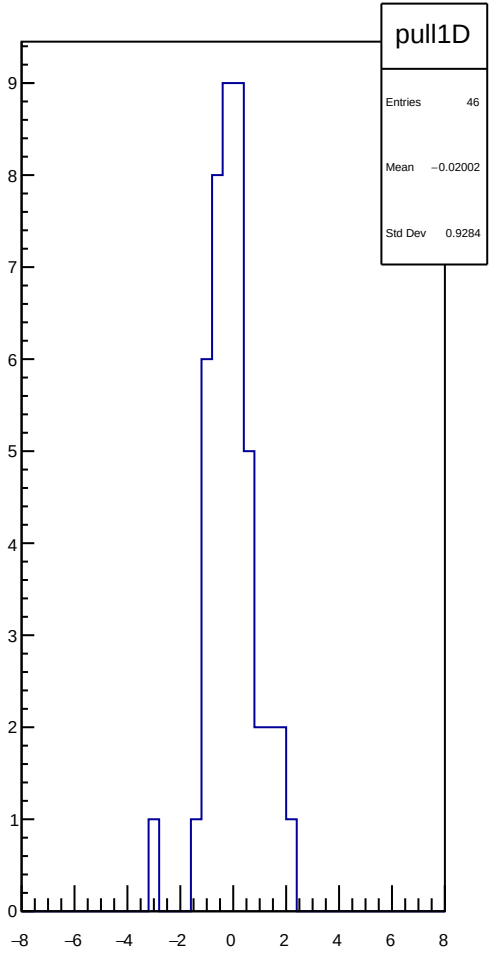

diff_bpm1i04Y_rms vs run
χ² / ndf 623.8 / 45
p0 664 ± 0.6973
720
700
680
660
640
620
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

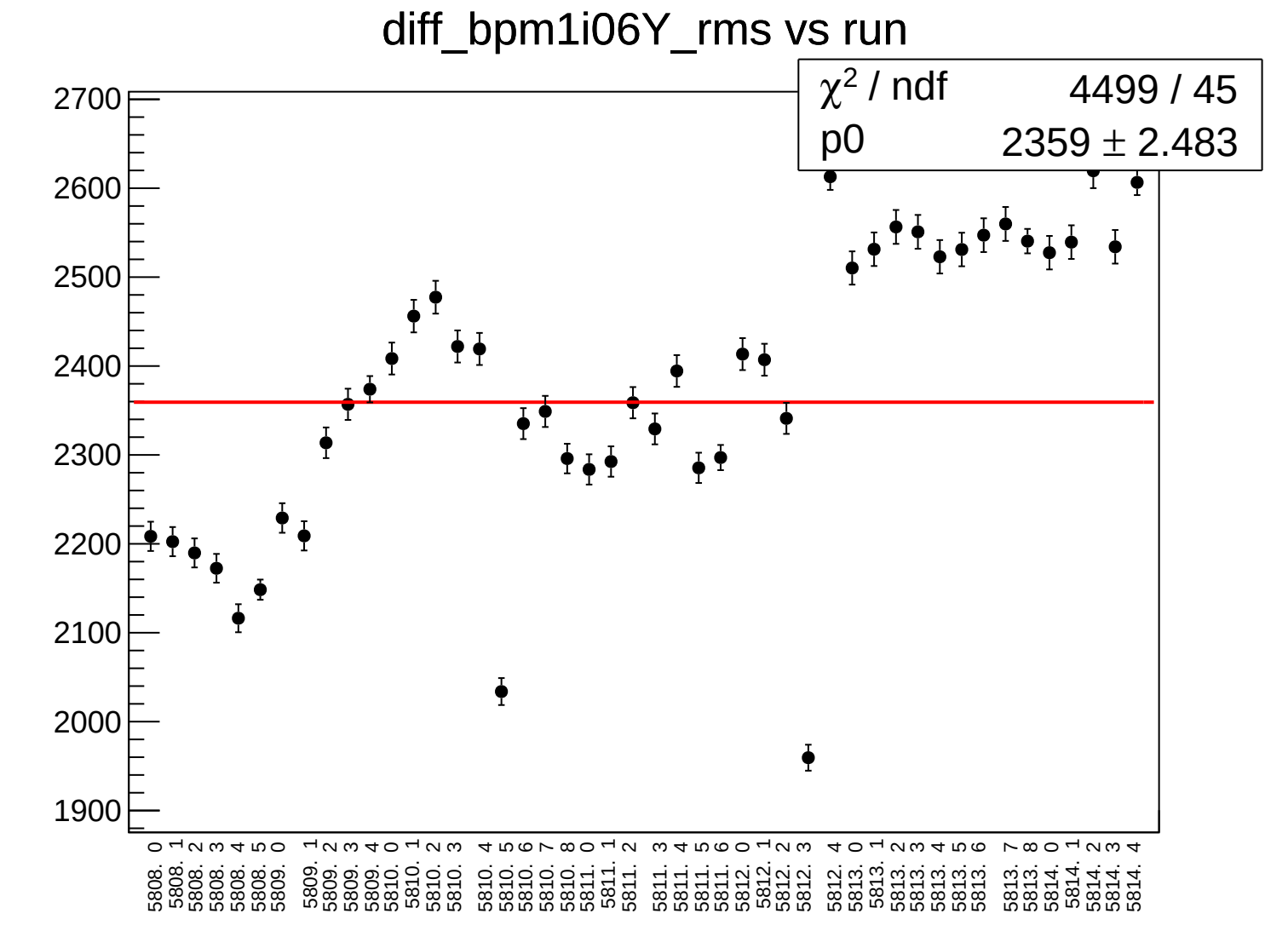

diff_bpm1i06X_mean vs run
χ² / ndf 70.39 / 45
p0 −28.54 ± 3.436
50
0
−50
−100
−150
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 153.5
Std Dev 131.6
2
1
0
−1
−2
−3

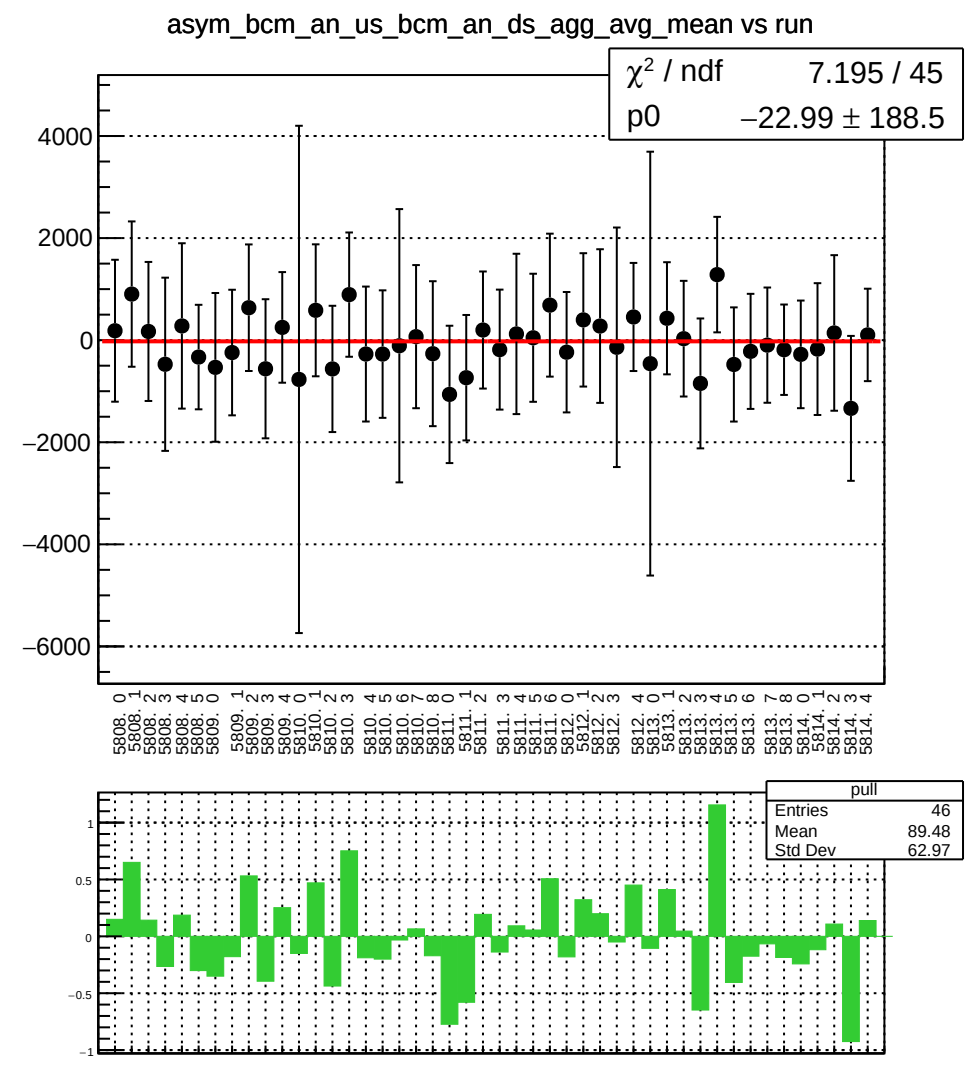

pull1D
Entries 46
Mean −0.0725
Std Dev 1.235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

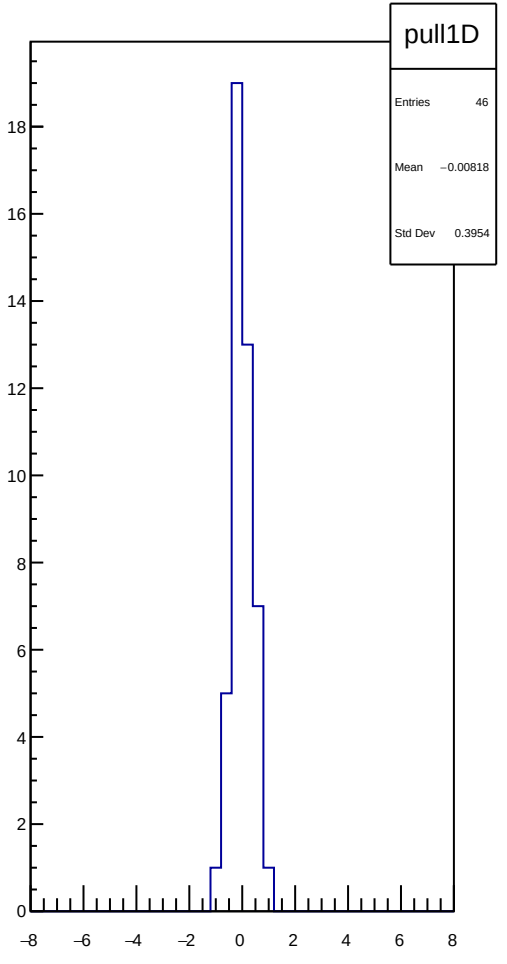

diff_bpm1i06X_rms vs run
χ² / ndf 4279 / 45
p0 2309 ± 2.429
2600
2500
2400
2300
2200
2100
2000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

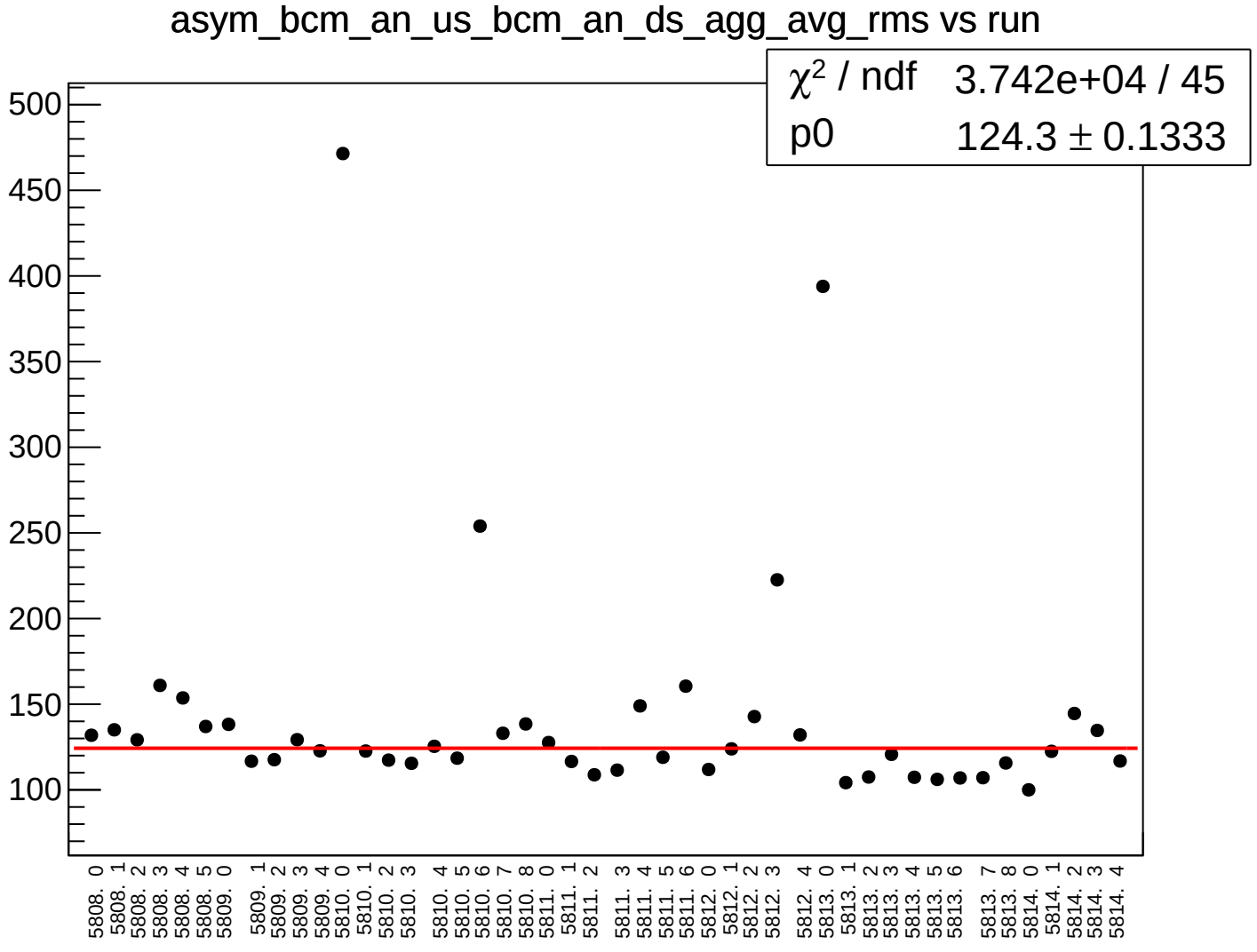

diff_bpm1i06Y_mean vs run
χ² / ndf 39.67 / 45
p0 −29.74 ± 3.512
50
0
−50
−100
−150
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 155.8
Std Dev 128.3
2
1
0
−1
−2
−3

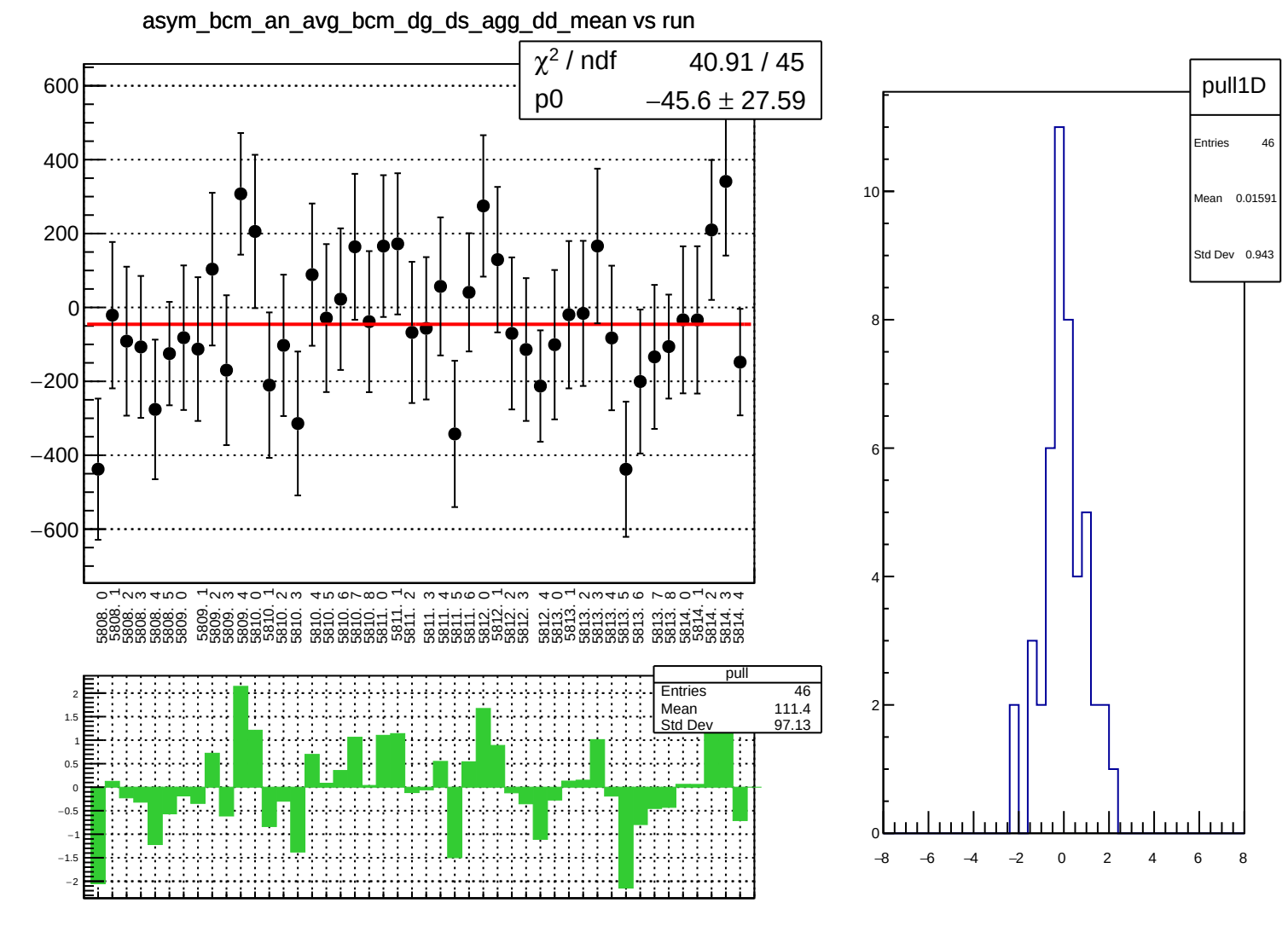

pull1D
Entries 46
Mean −0.02002
Std Dev 0.9284
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

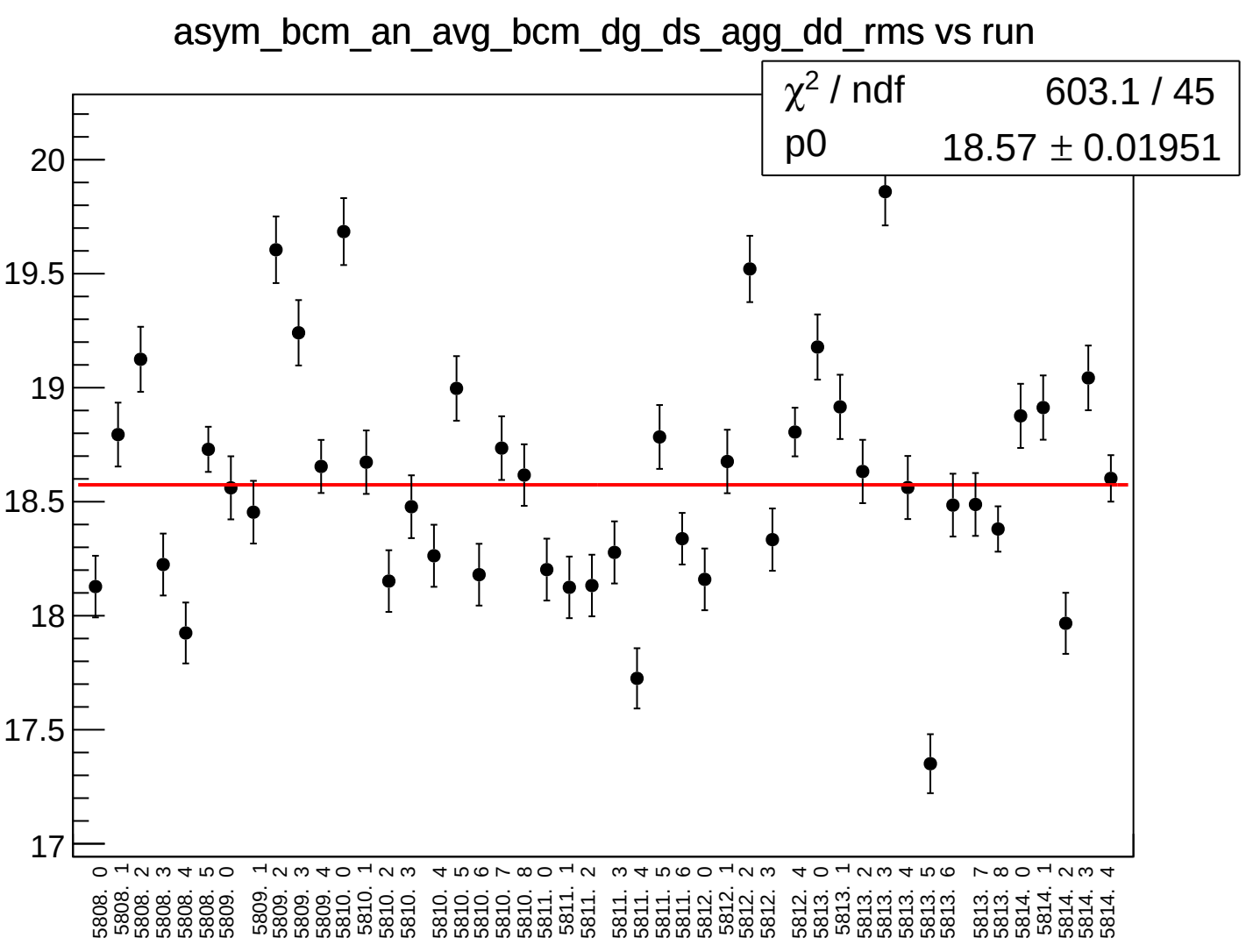

diff_bpm1i06Y_rms vs run
χ² / ndf 4499 / 45
p0 2359 ± 2.483
2700
2600
2500
2400
2300
2200
2100
2000
1900
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

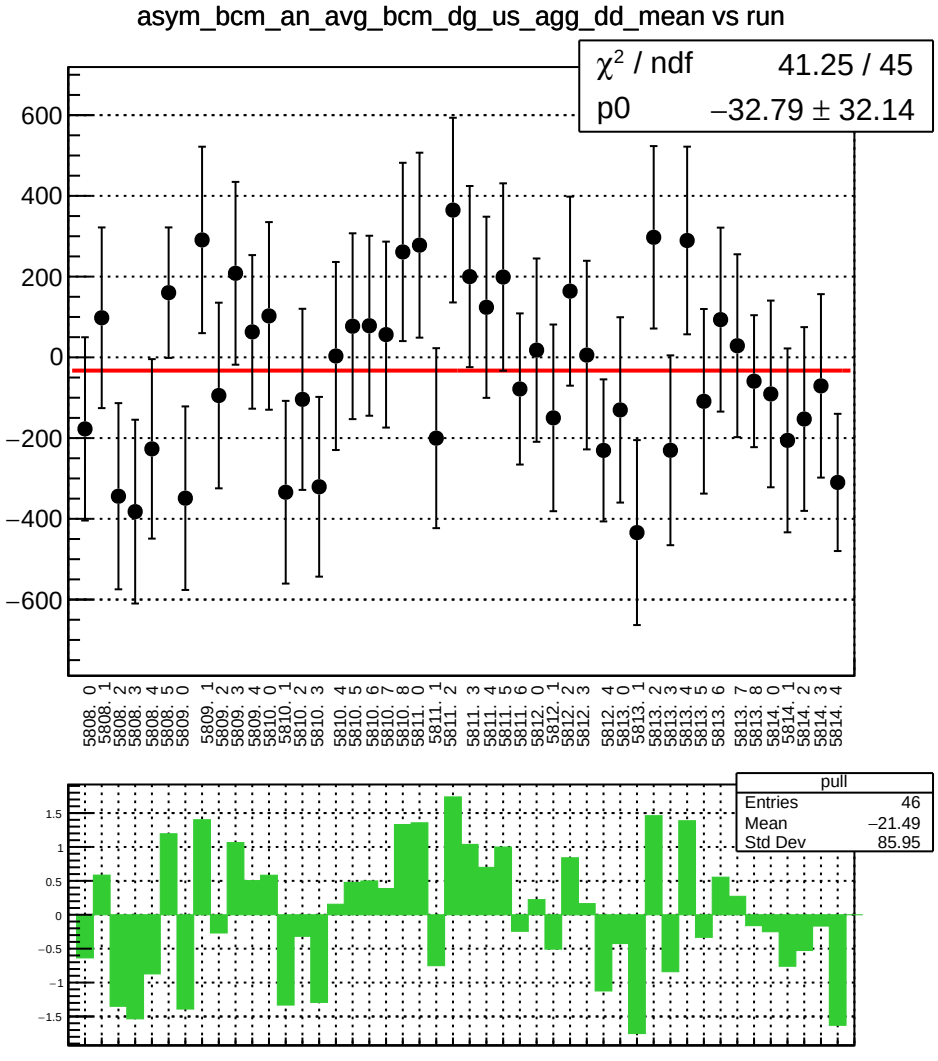

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.195 / 45
p0 −22.99 ± 188.5
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 89.48
Std Dev 62.97
1
0.5
0
−0.5
−1

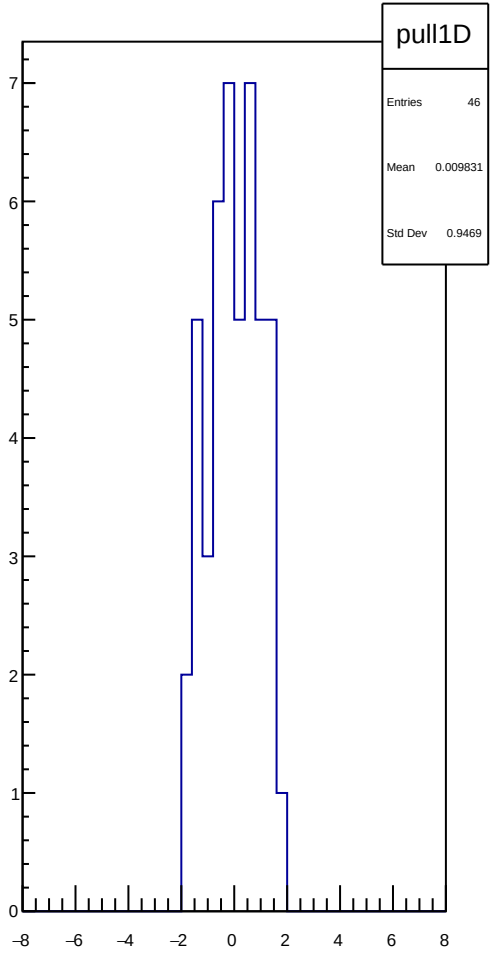

pull1D
Entries 46
Mean −0.00818
Std Dev 0.3954
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

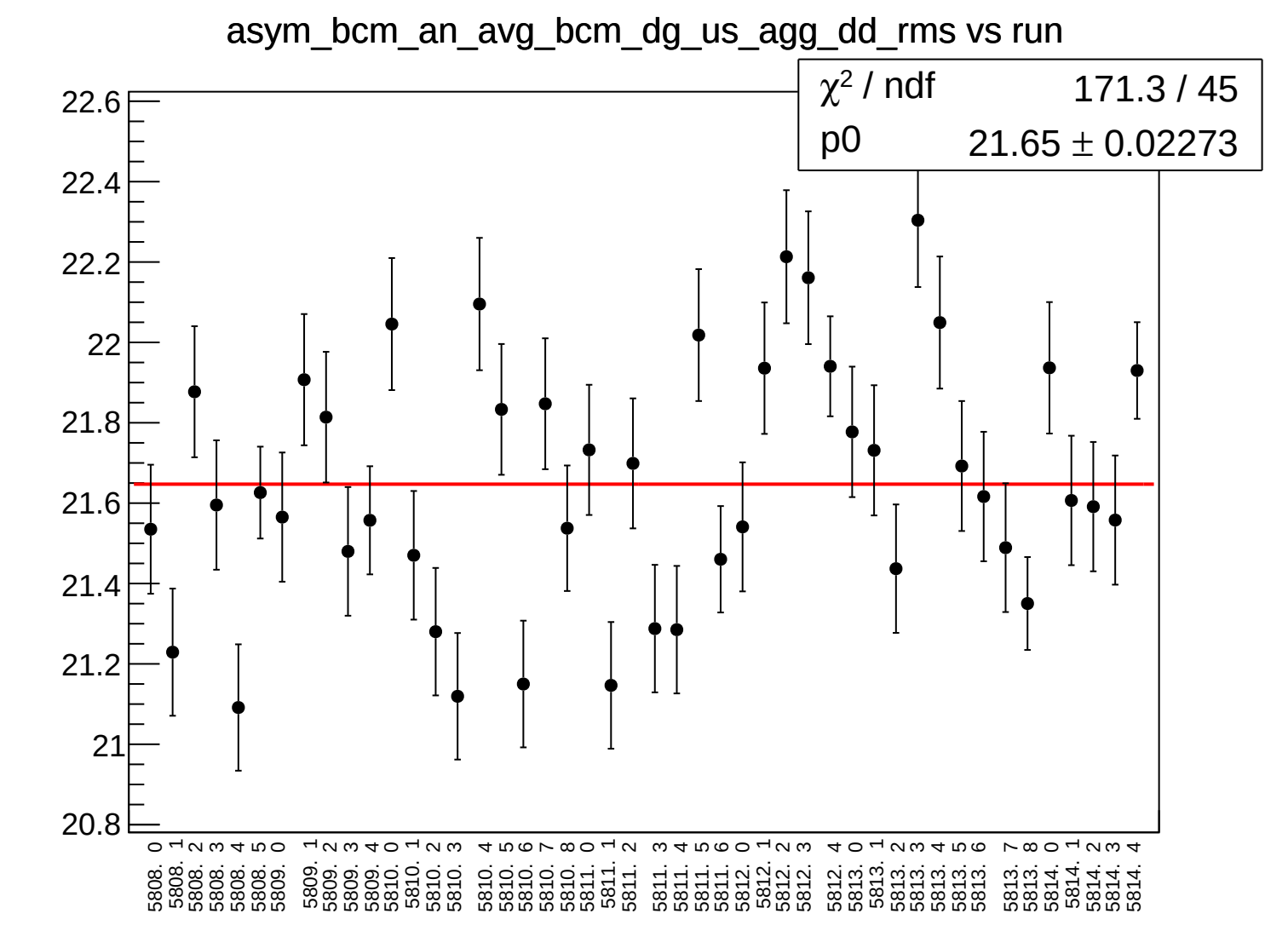

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.742e+04 / 45
p0 124.3 ± 0.1333
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

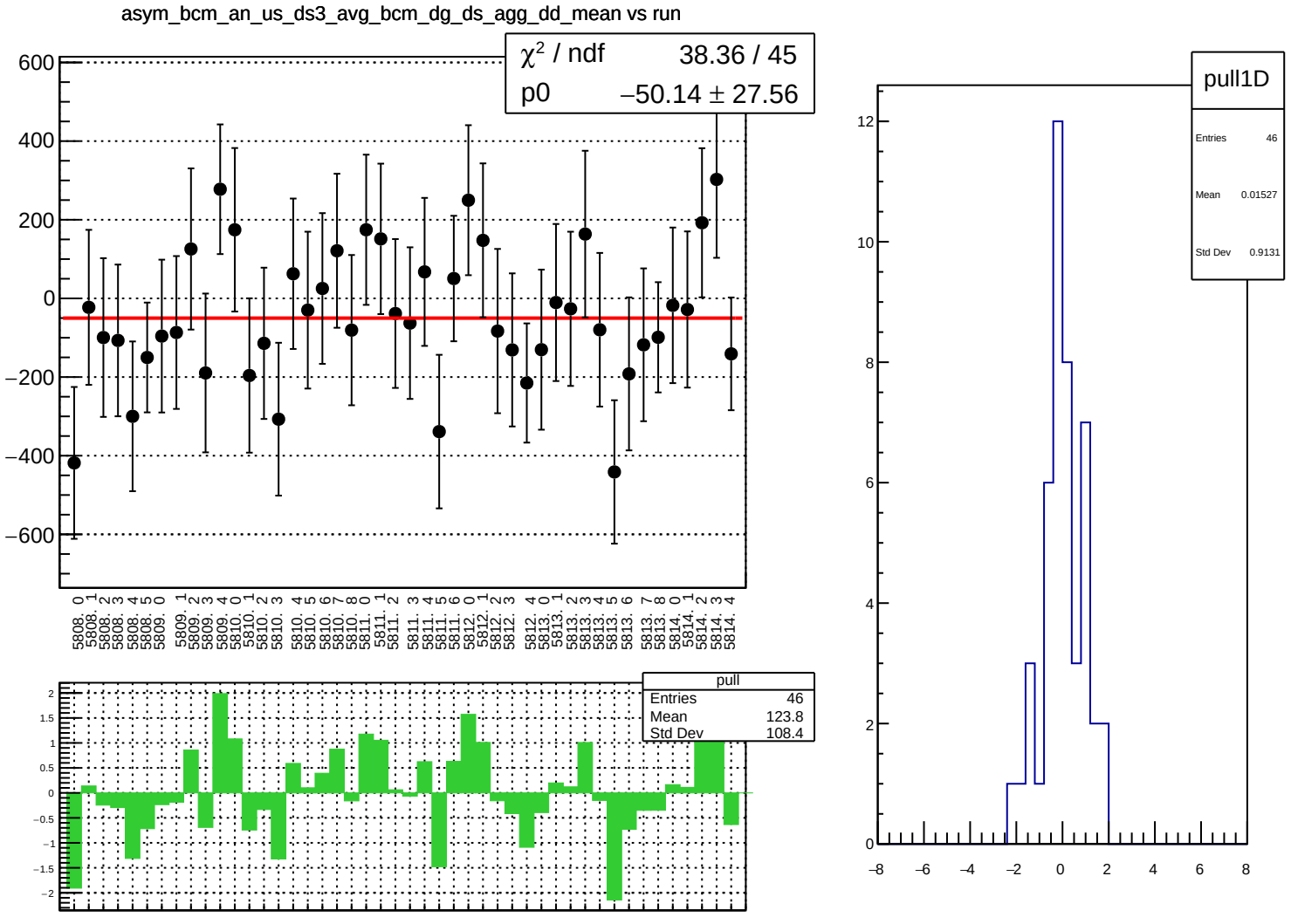

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 40.91 / 45
p0 −45.6 ± 27.59
600
400
200
0
−200
−400
−600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 111.4
Std Dev 97.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01591
Std Dev 0.943
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

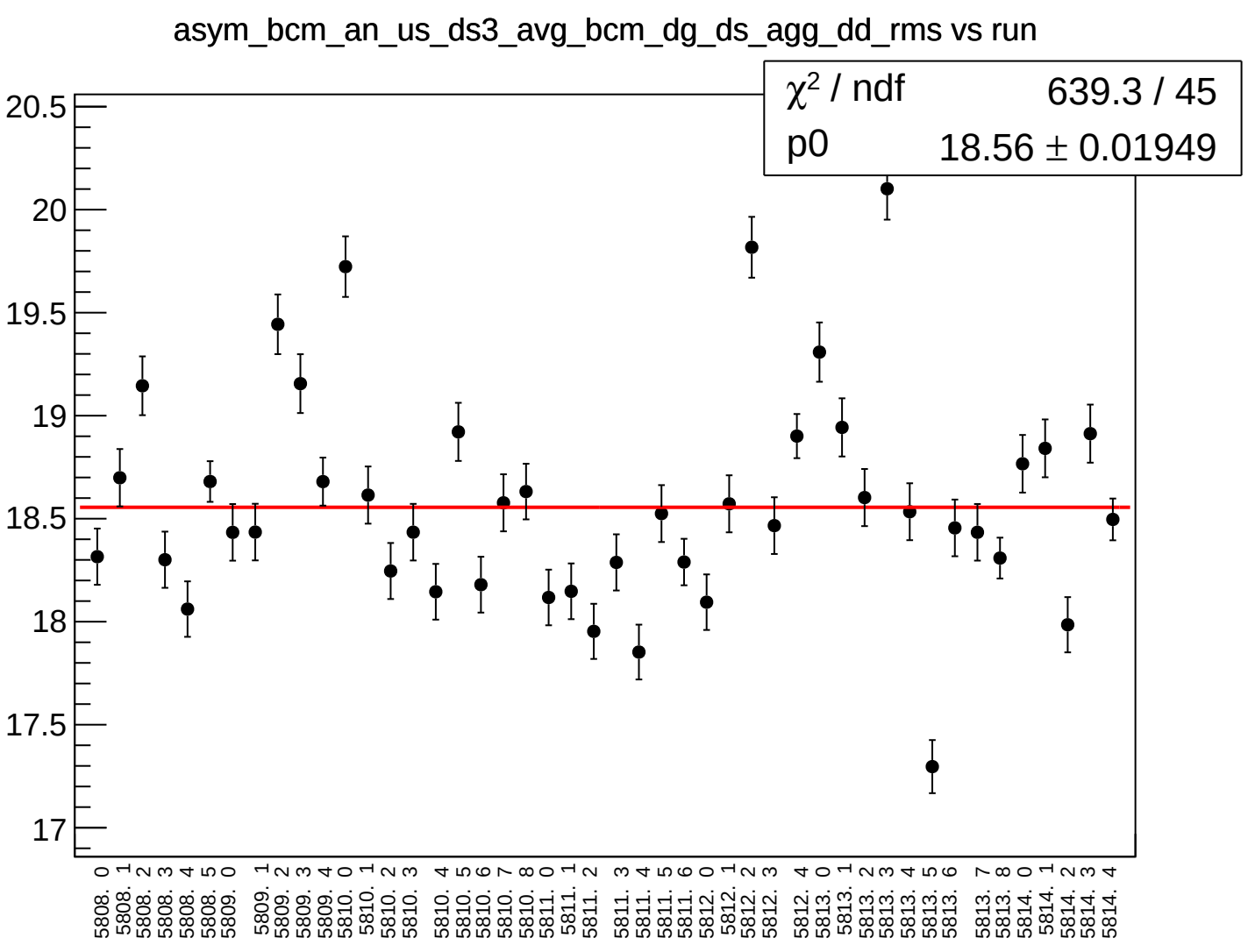

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 603.1 / 45
p0 18.57 ± 0.01951
20
19.5
19
18.5
18
17.5
17
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

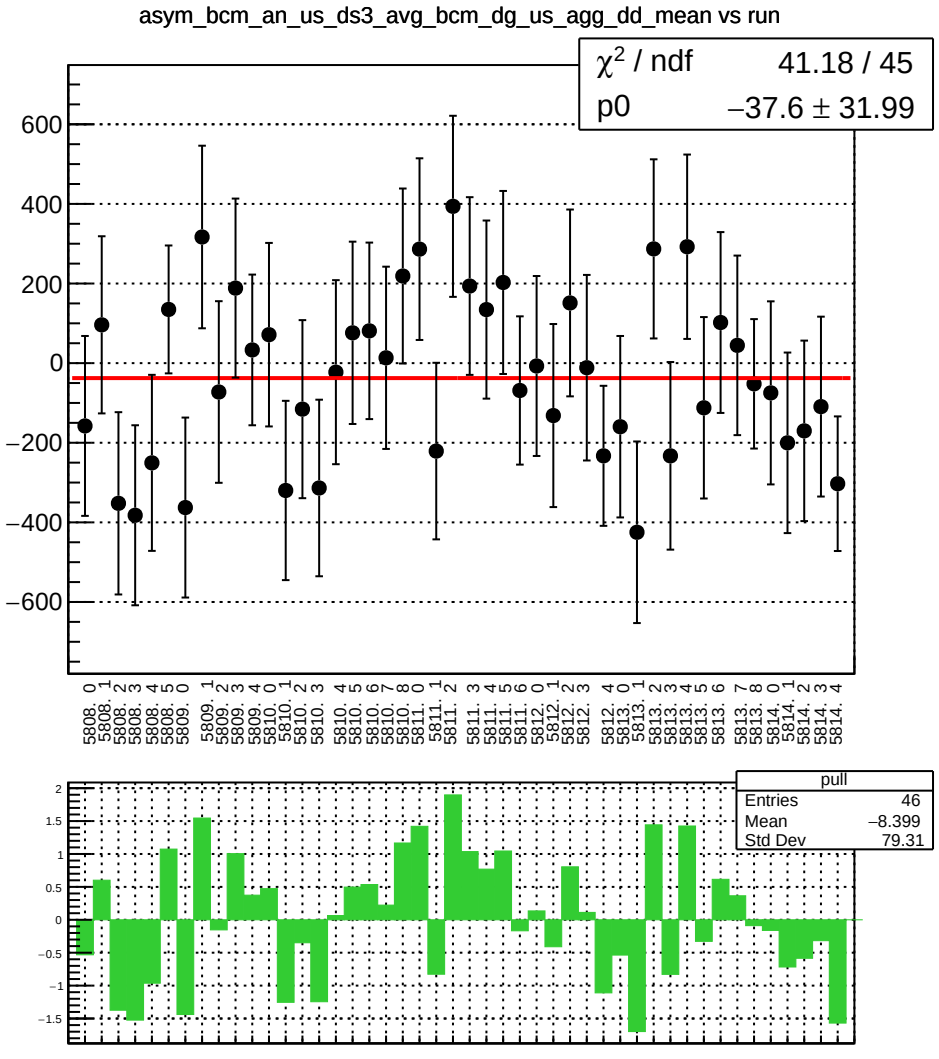

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 41.25 / 45
p0 −32.79 ± 32.14
pull
Entries 46
Mean −21.49
Std Dev 85.95

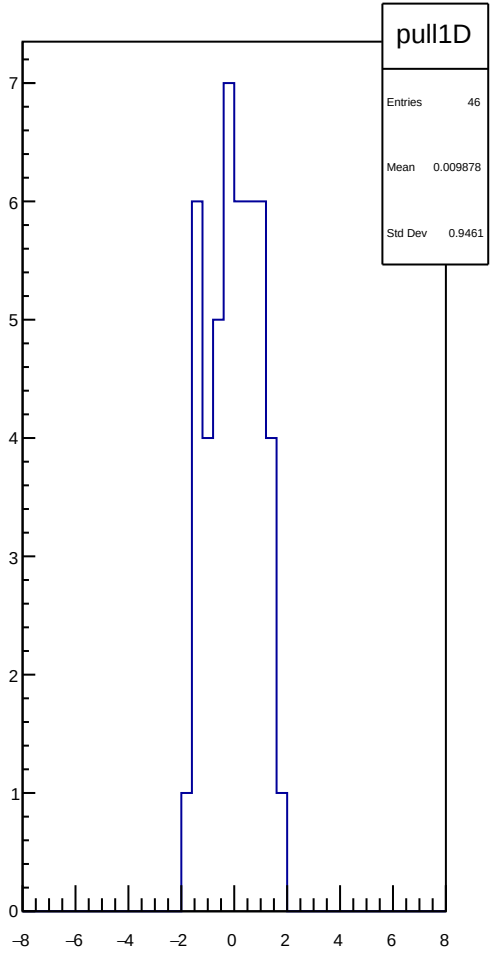

pull1D
Entries 46
Mean 0.009831
Std Dev 0.9469

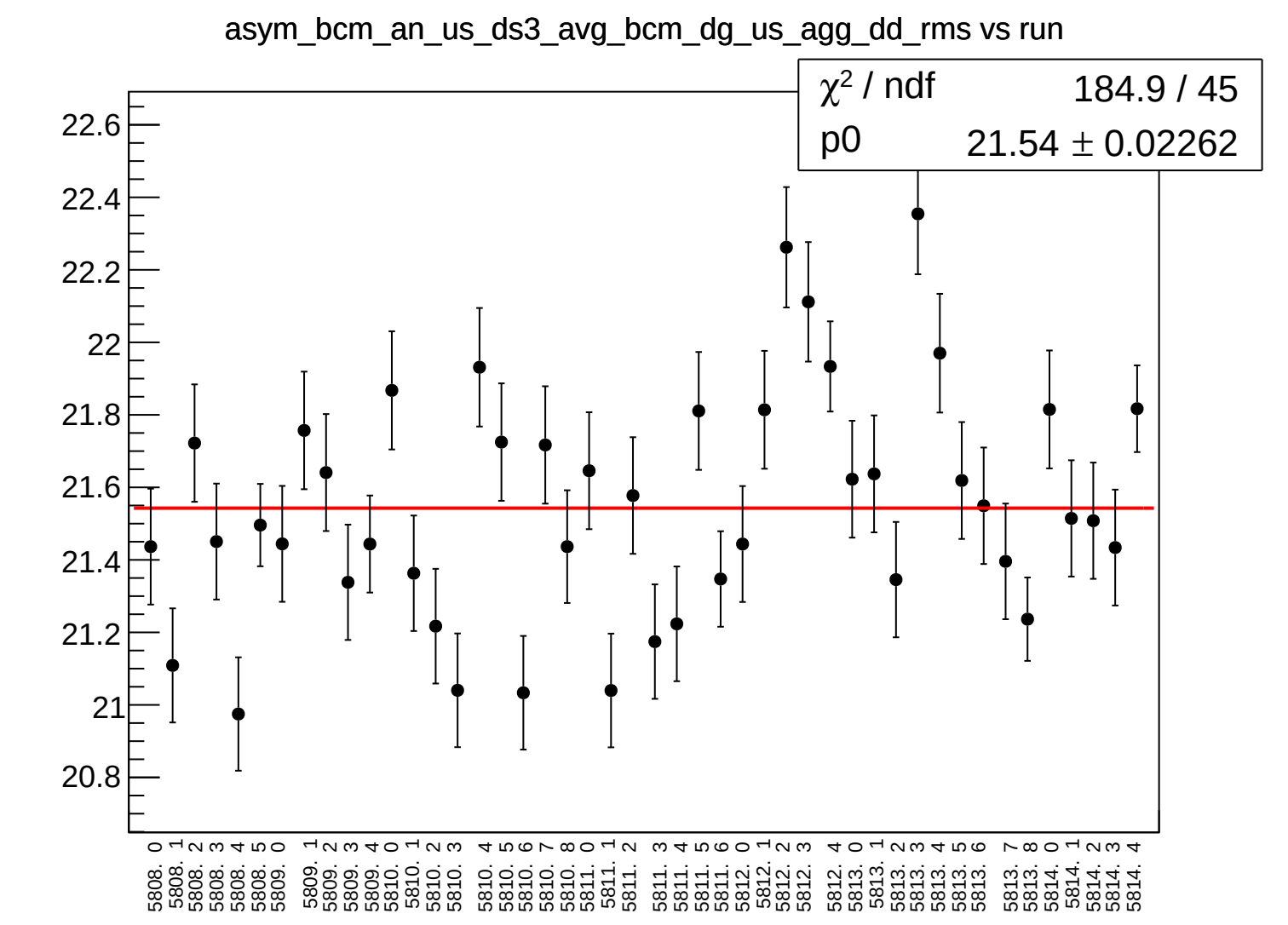

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 171.3 / 45
p0 21.65 ± 0.02273
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

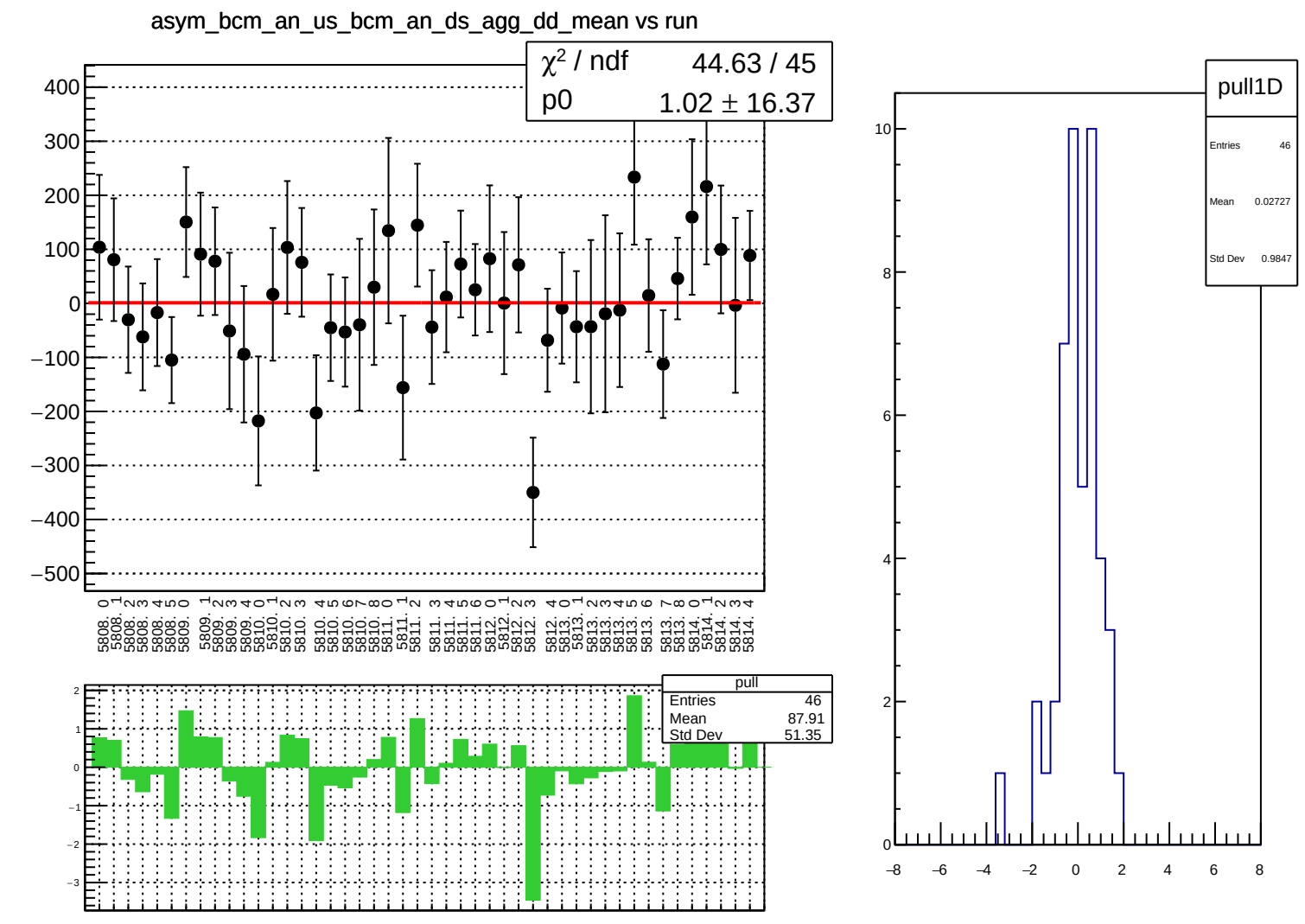

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 38.36 / 45
p0 −50.14 ± 27.56
600
400
200
0
−200
−400
−600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 123.8
Std Dev 108.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01527
Std Dev 0.9131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

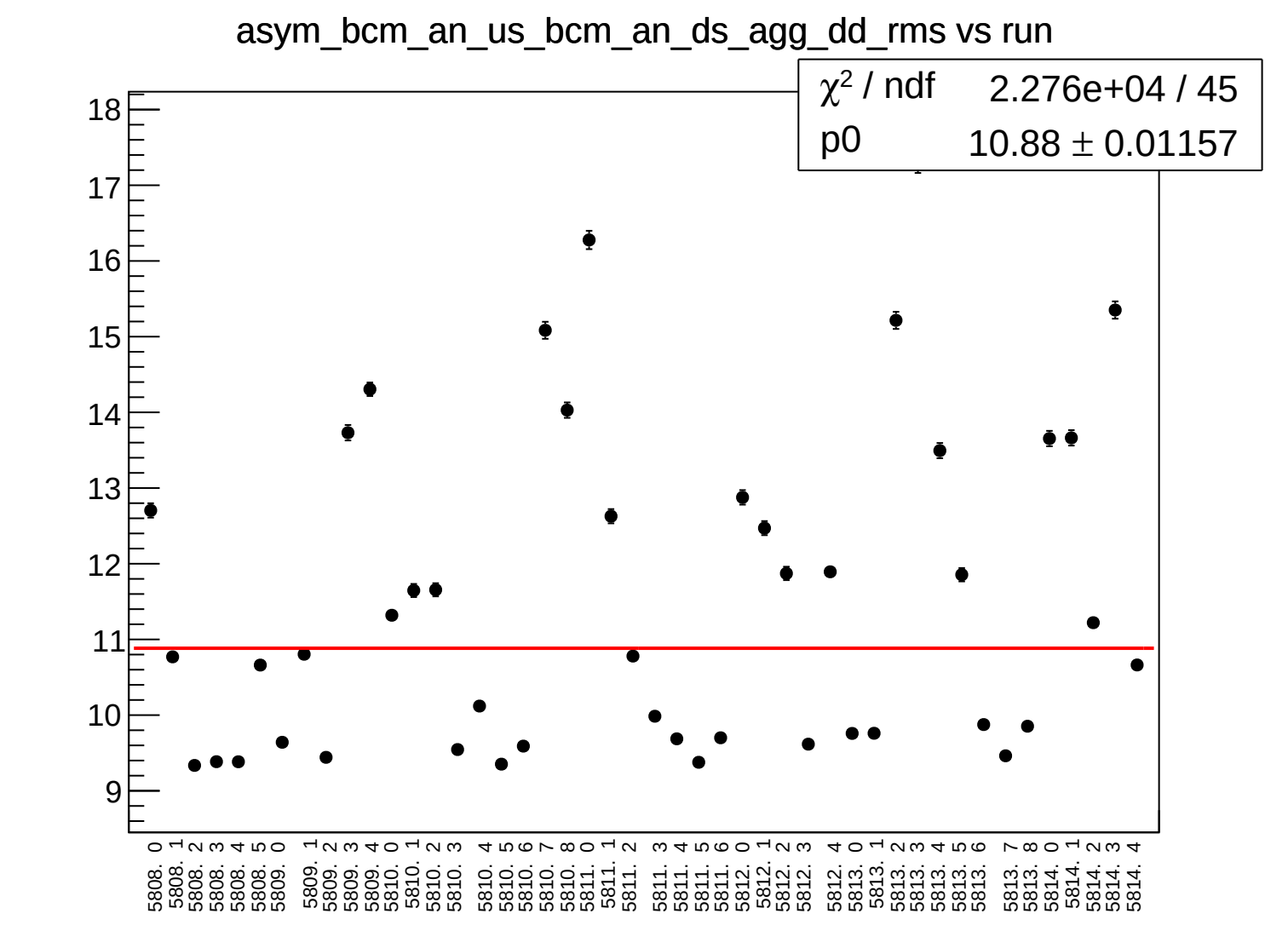

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 639.3 / 45
p0 18.56 ± 0.01949
20.5
20
19.5
19
18.5
18
17.5
17
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

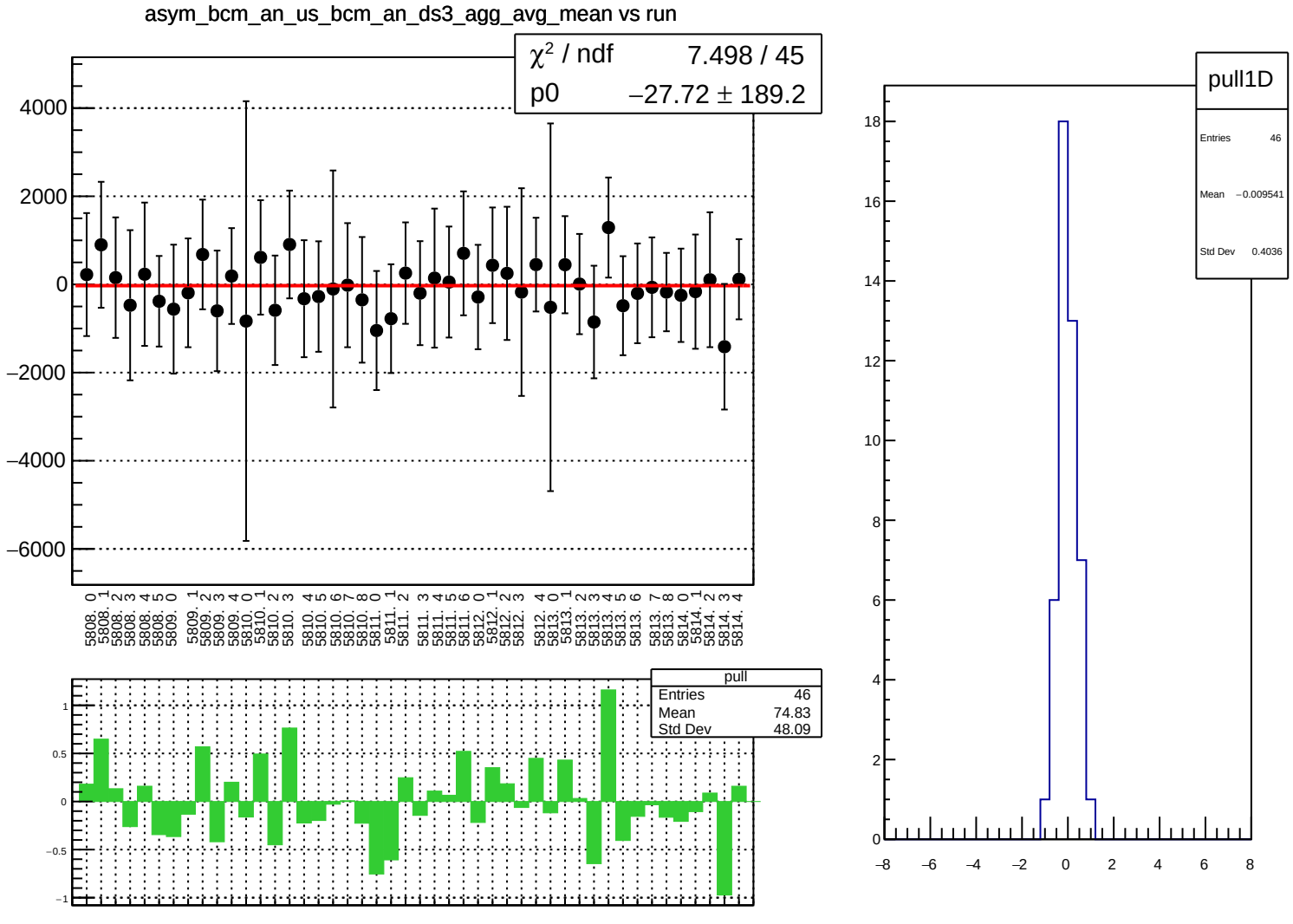

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 41.18 / 45
p0 −37.6 ± 31.99
600
400
200
0
−200
−400
−600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −8.399
Std Dev 79.31
2
1.5
1
0.5
0
−0.5
−1
−1.5

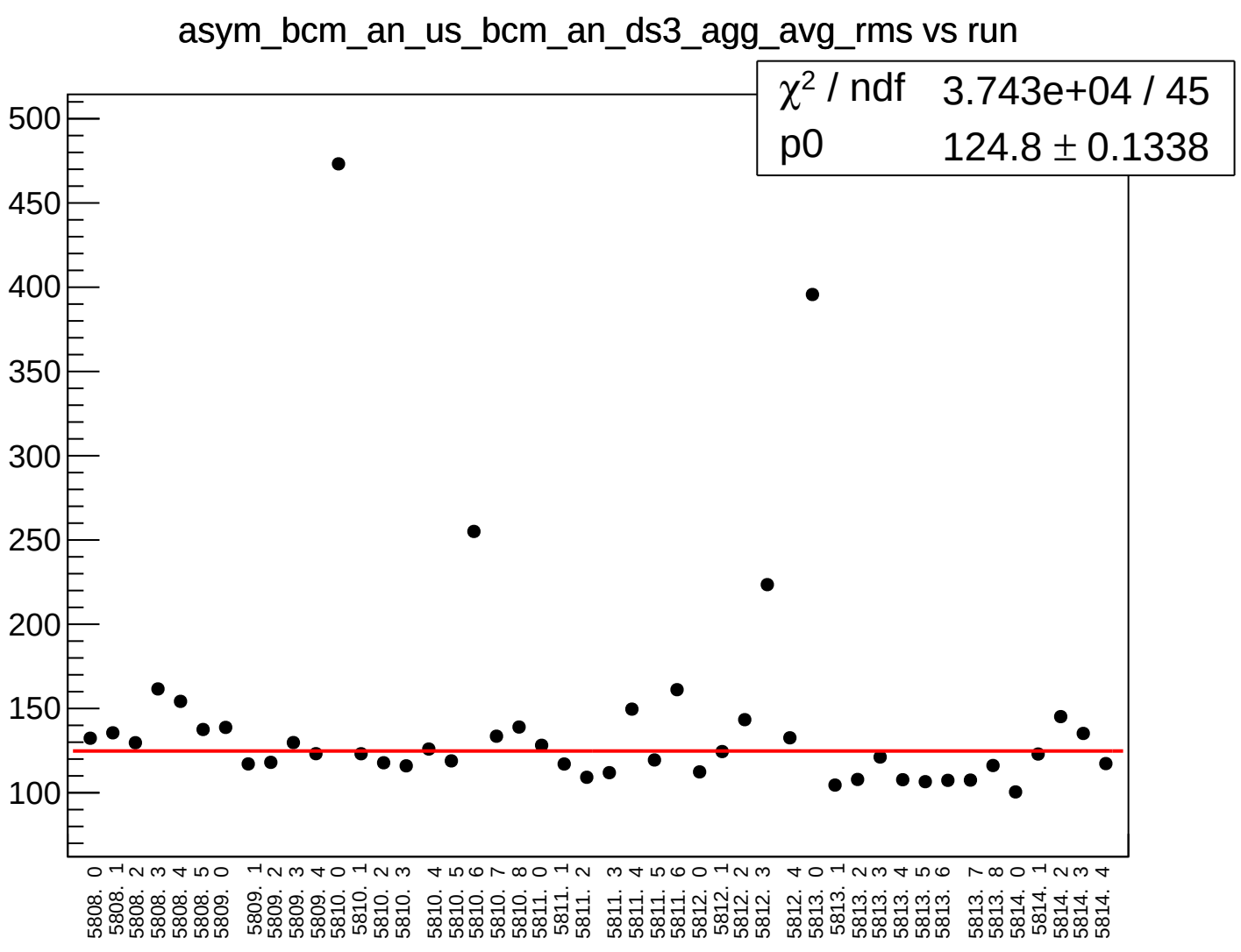

pull1D
Entries 46
Mean 0.009878
Std Dev 0.9461
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

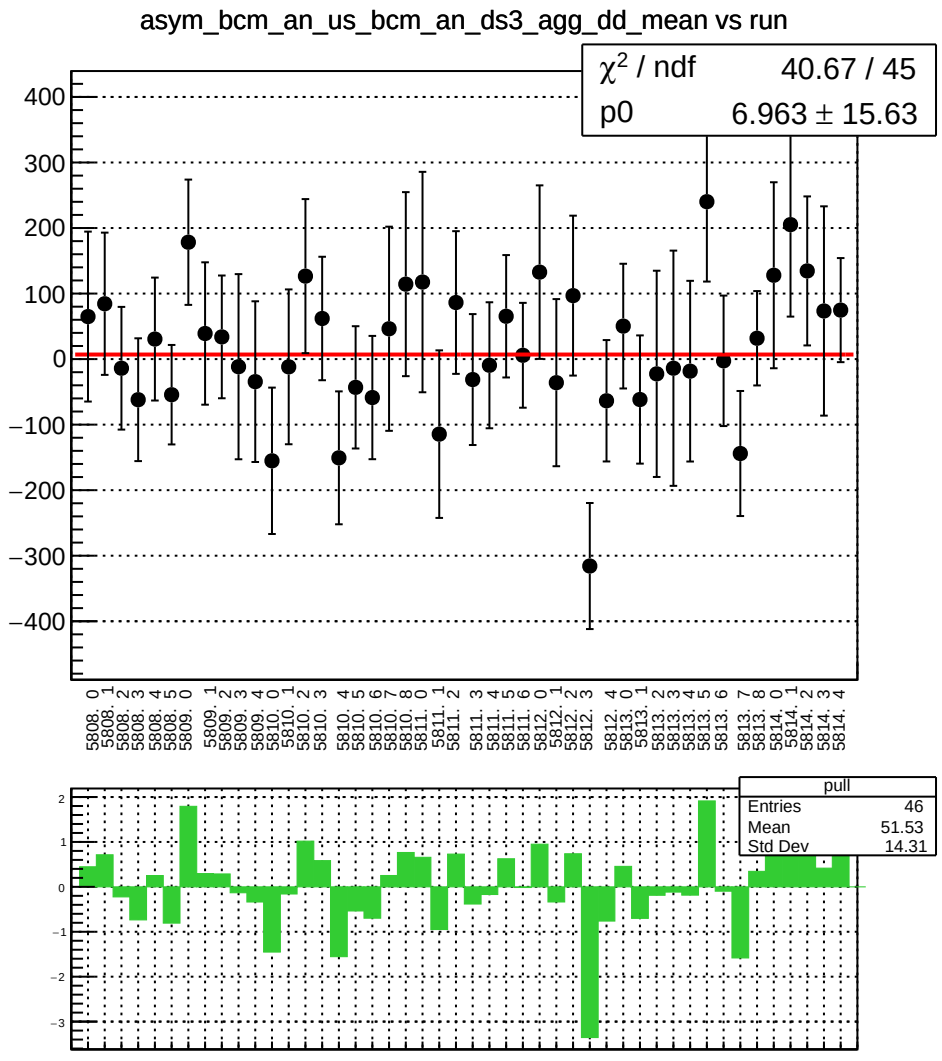

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 184.9 / 45
p0 21.54 ± 0.02262
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

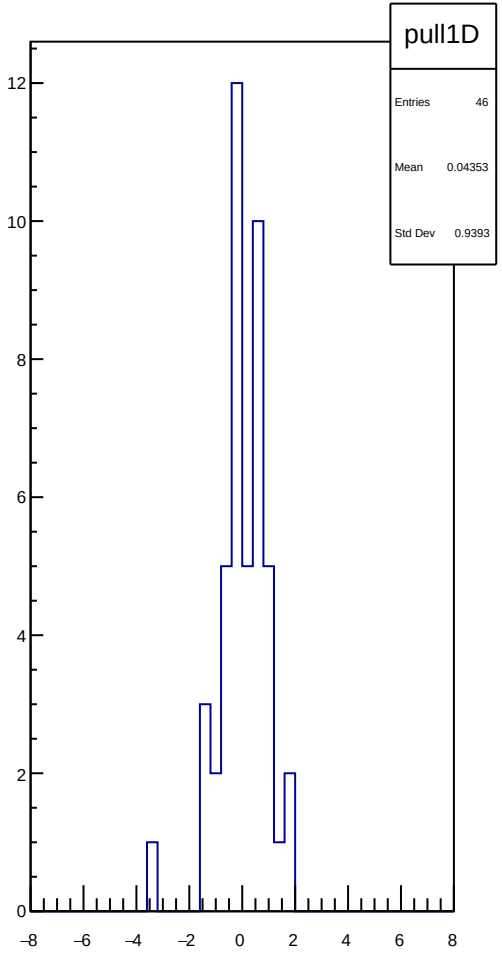

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.63 / 45
p0 1.02 ± 16.37
pull
Entries 46
Mean 87.91
Std Dev 51.35
pull1D
Entries 46
Mean 0.02727
Std Dev 0.9847

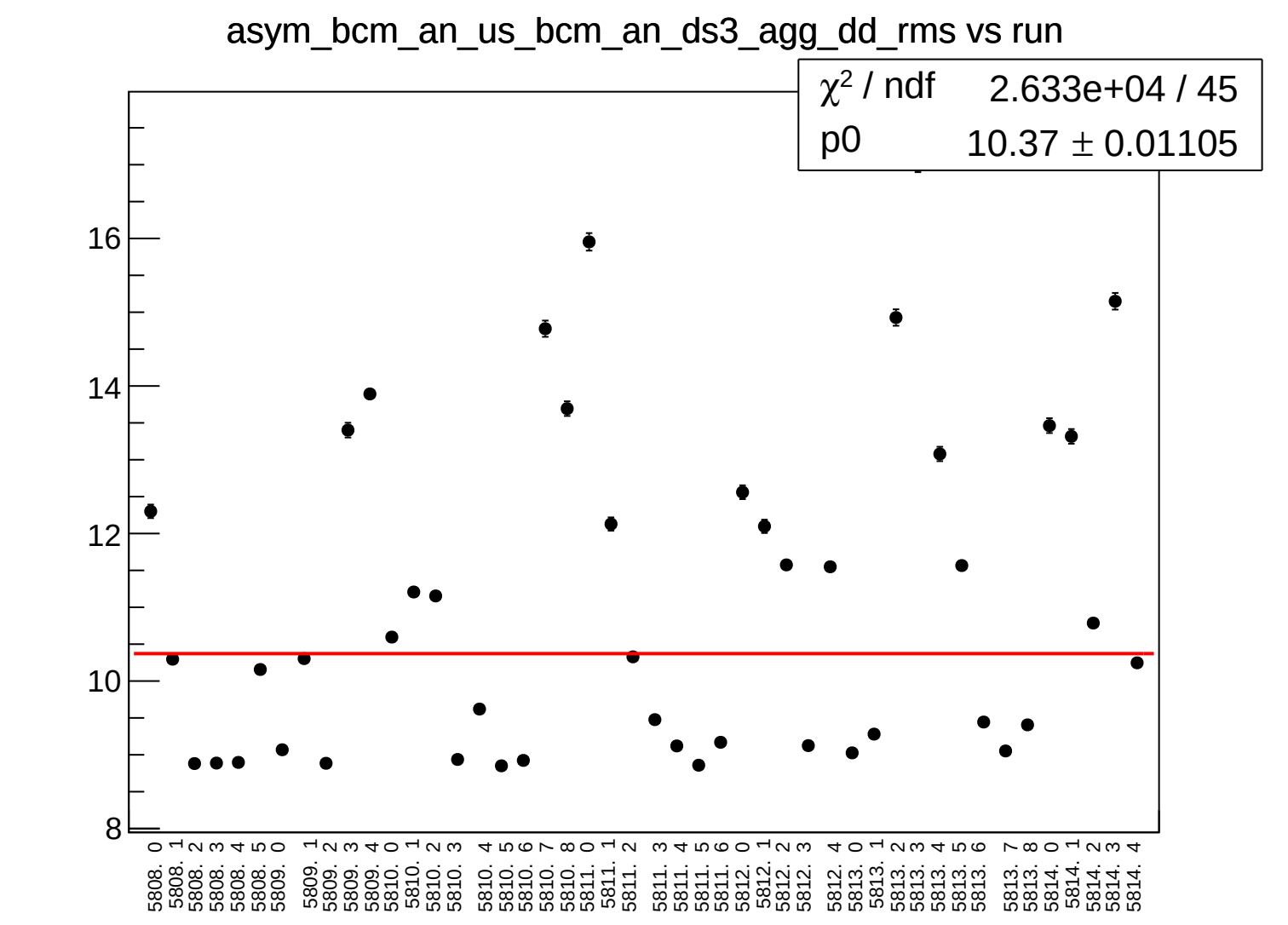

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.276e+04 / 45
p0 10.88 ± 0.01157
18
17
16
15
14
13
12
11
10
9
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

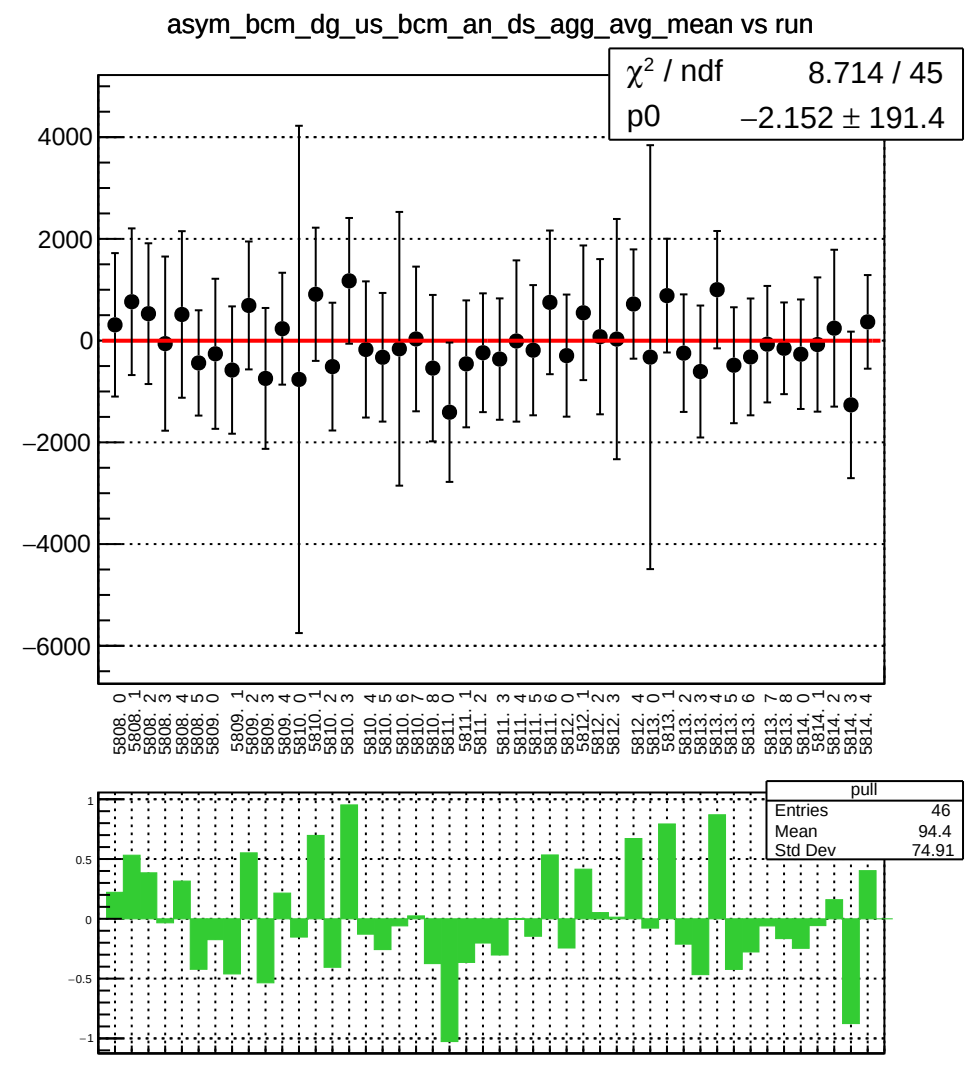

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.498 / 45
p0 −27.72 ± 189.2
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 74.83
Std Dev 48.09
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.009541
Std Dev 0.4036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

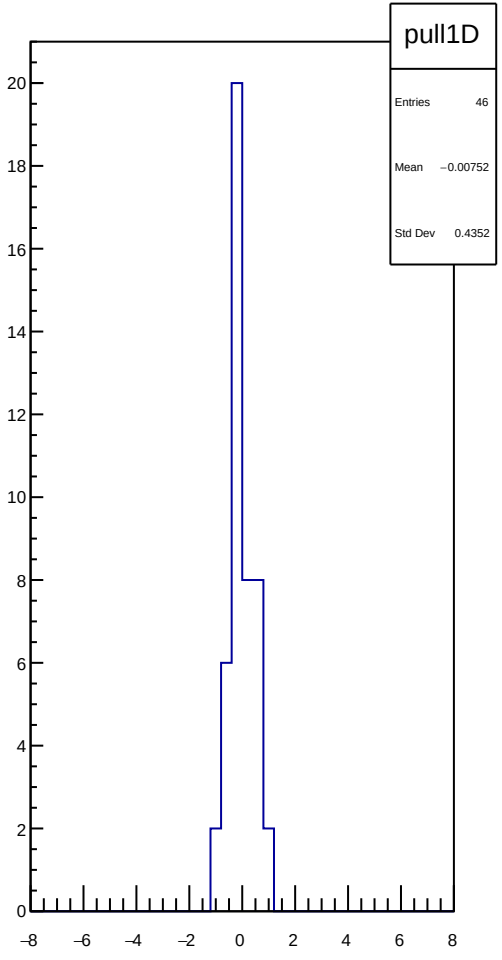

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.743e+04 / 45
p0 124.8 ± 0.1338
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

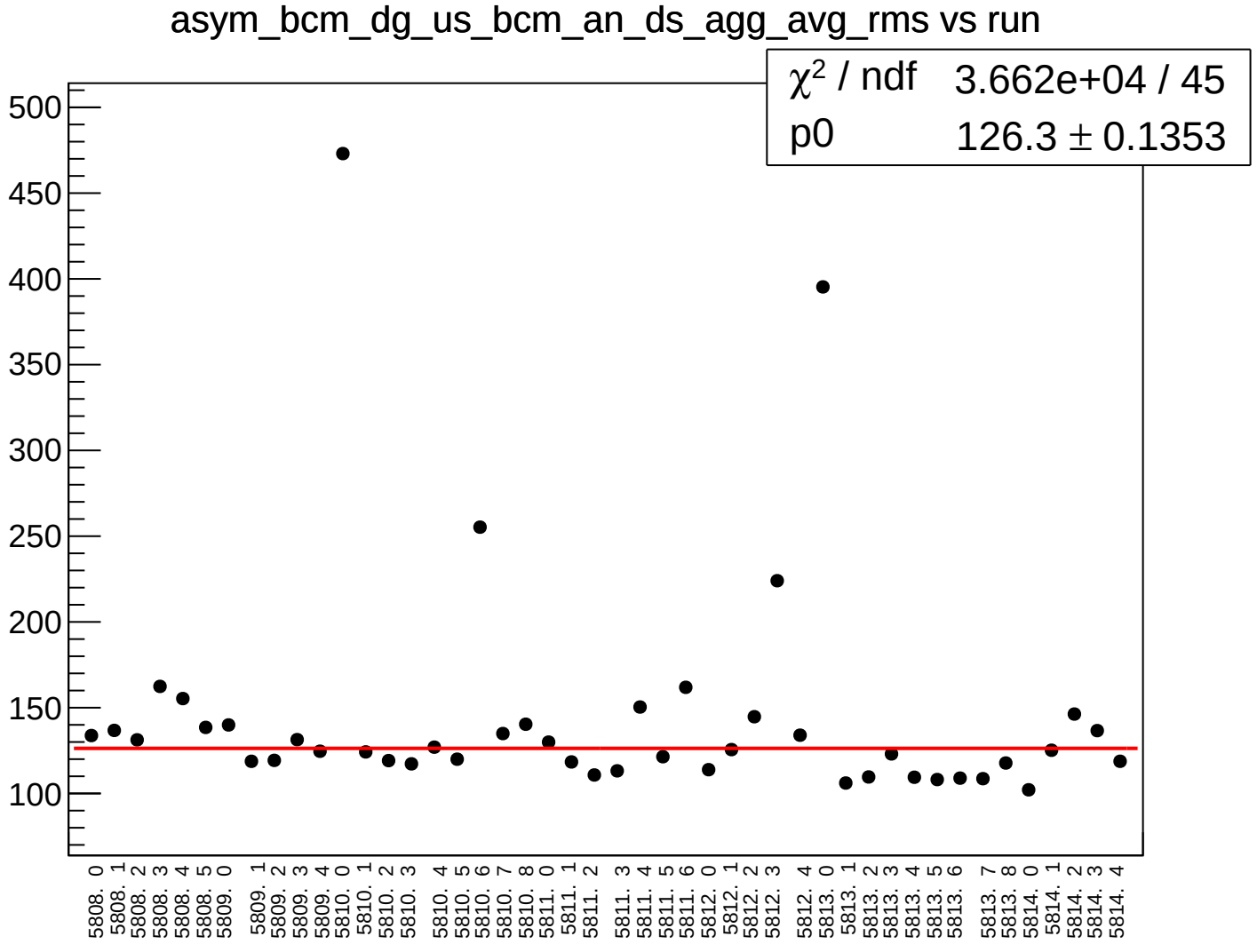

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 40.67 / 45
p0 6.963 ± 15.63
pull
Entries 46
Mean 51.53
Std Dev 14.31

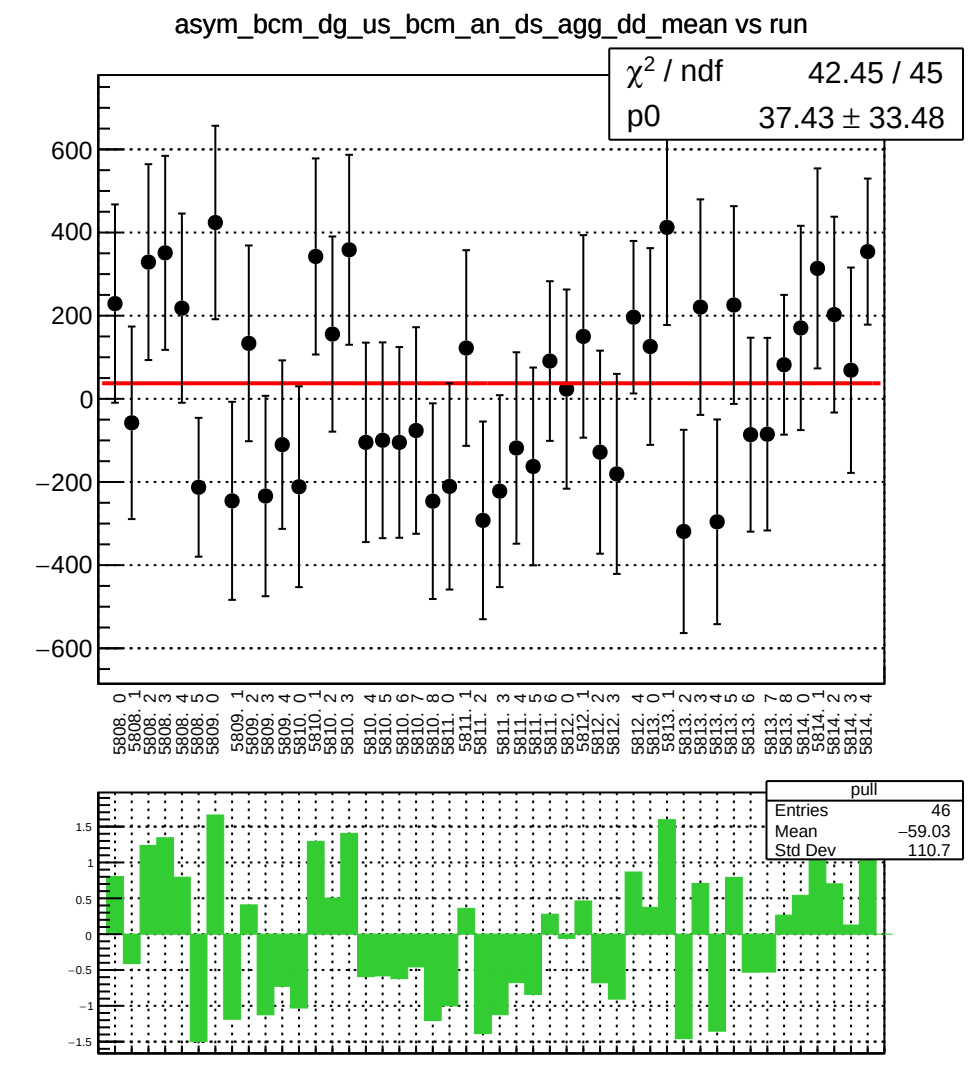

pull1D
Entries 46
Mean 0.04353
Std Dev 0.9393

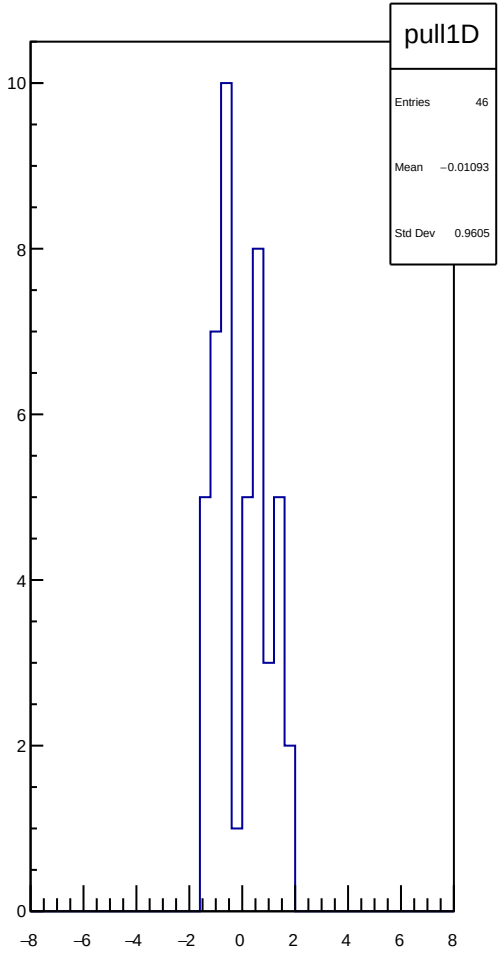

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.633e+04 / 45
p0 10.37 ± 0.01105
16
14
12
10
8
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

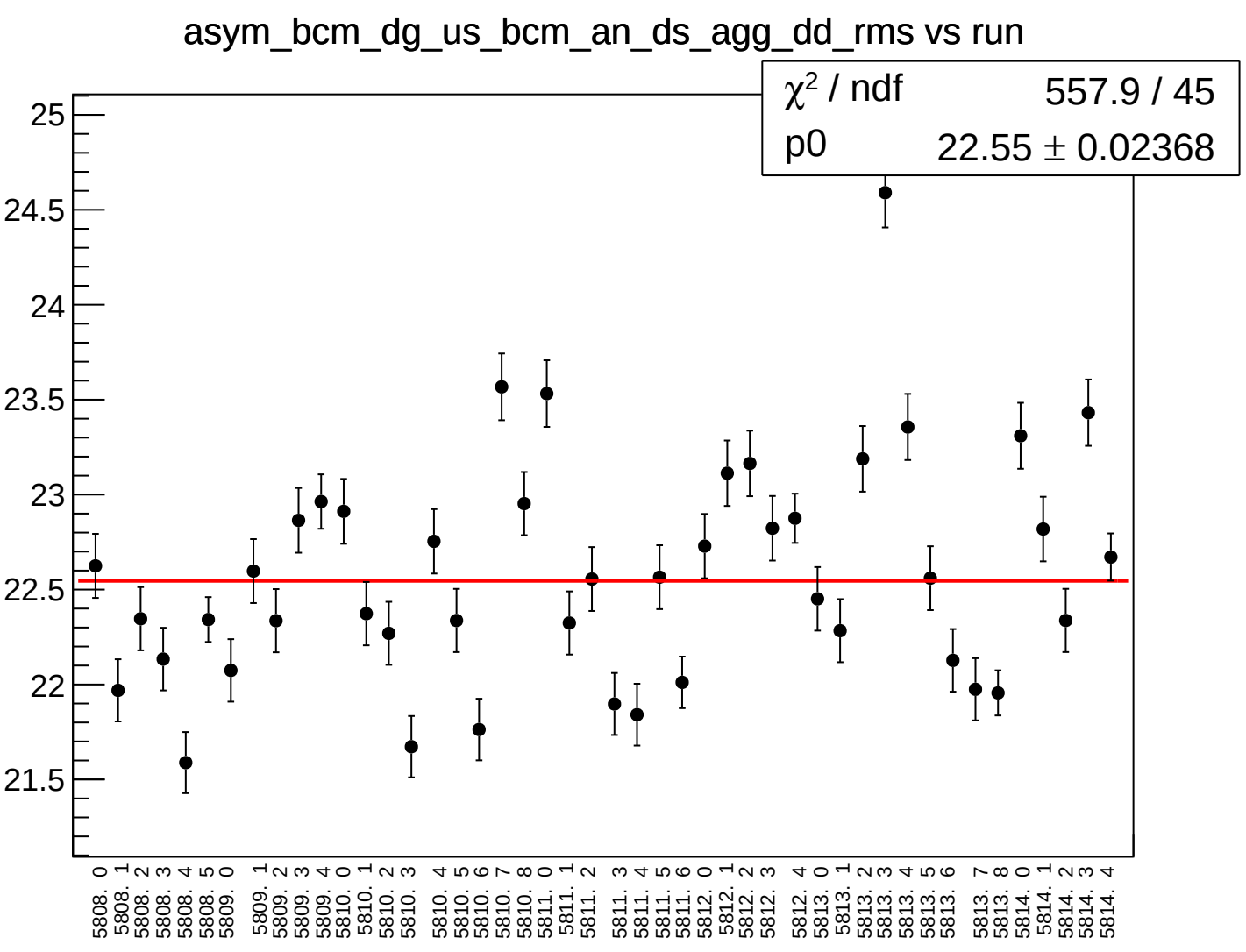

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.714 / 45
p0 −2.152 ± 191.4
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 94.4
Std Dev 74.91
1
0.5
0
−0.5
−1

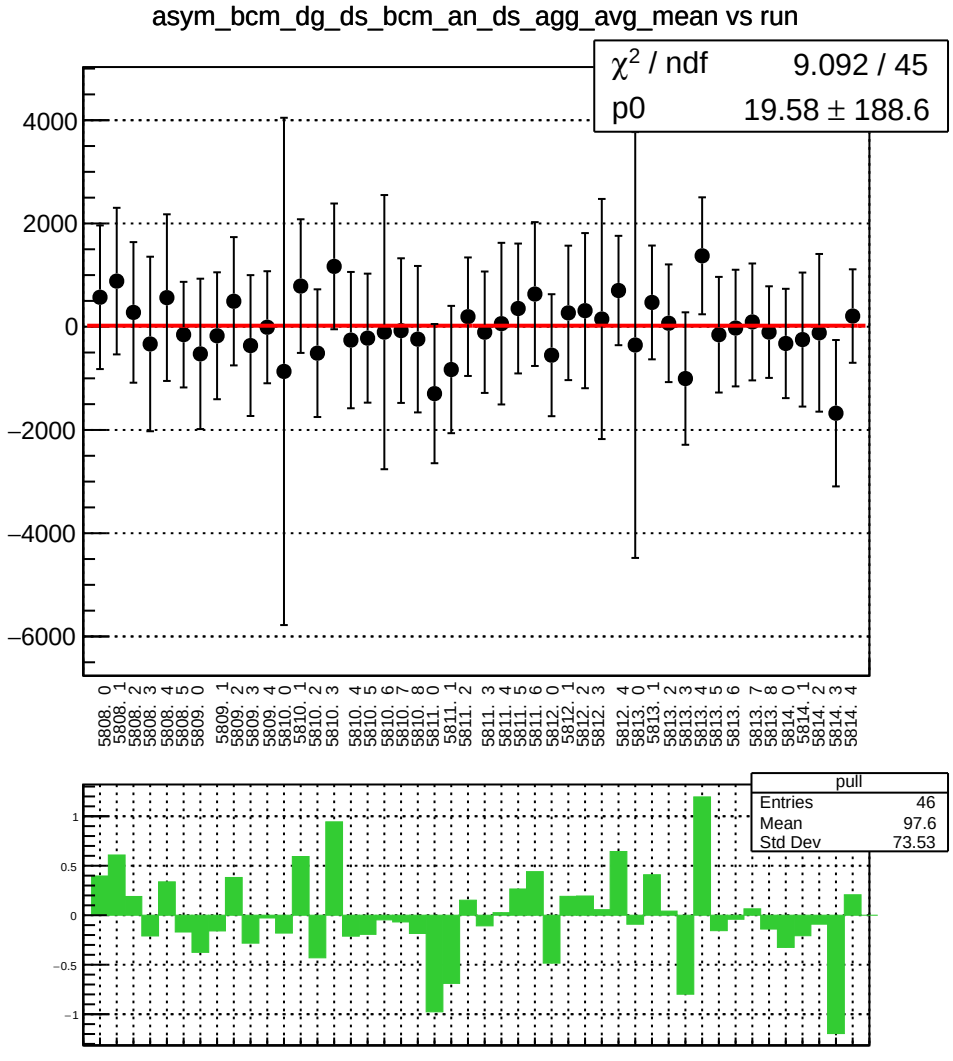

pull1D
Entries 46
Mean −0.00752
Std Dev 0.4352
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

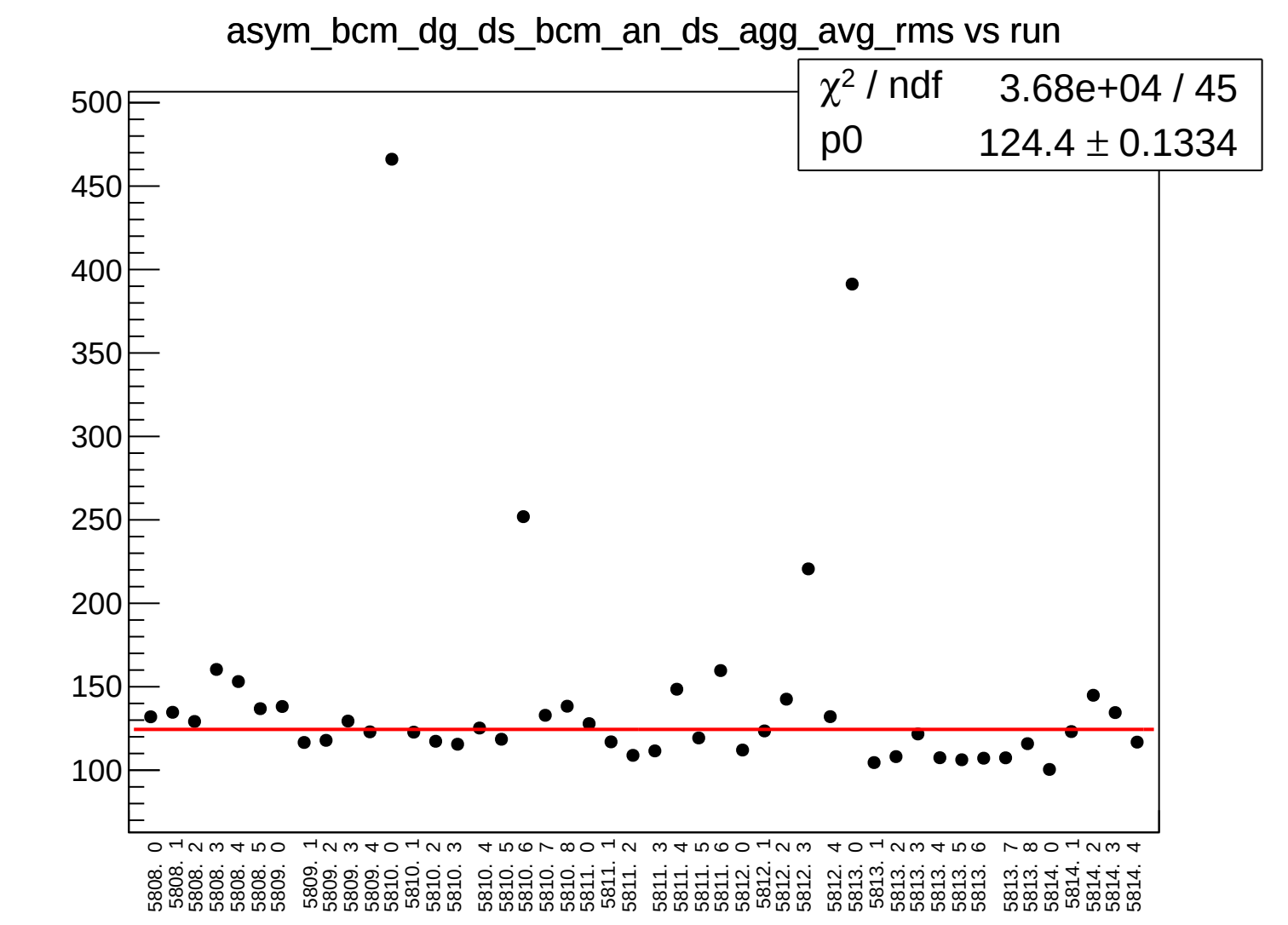

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.662e+04 / 45
p0 126.3 ± 0.1353
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

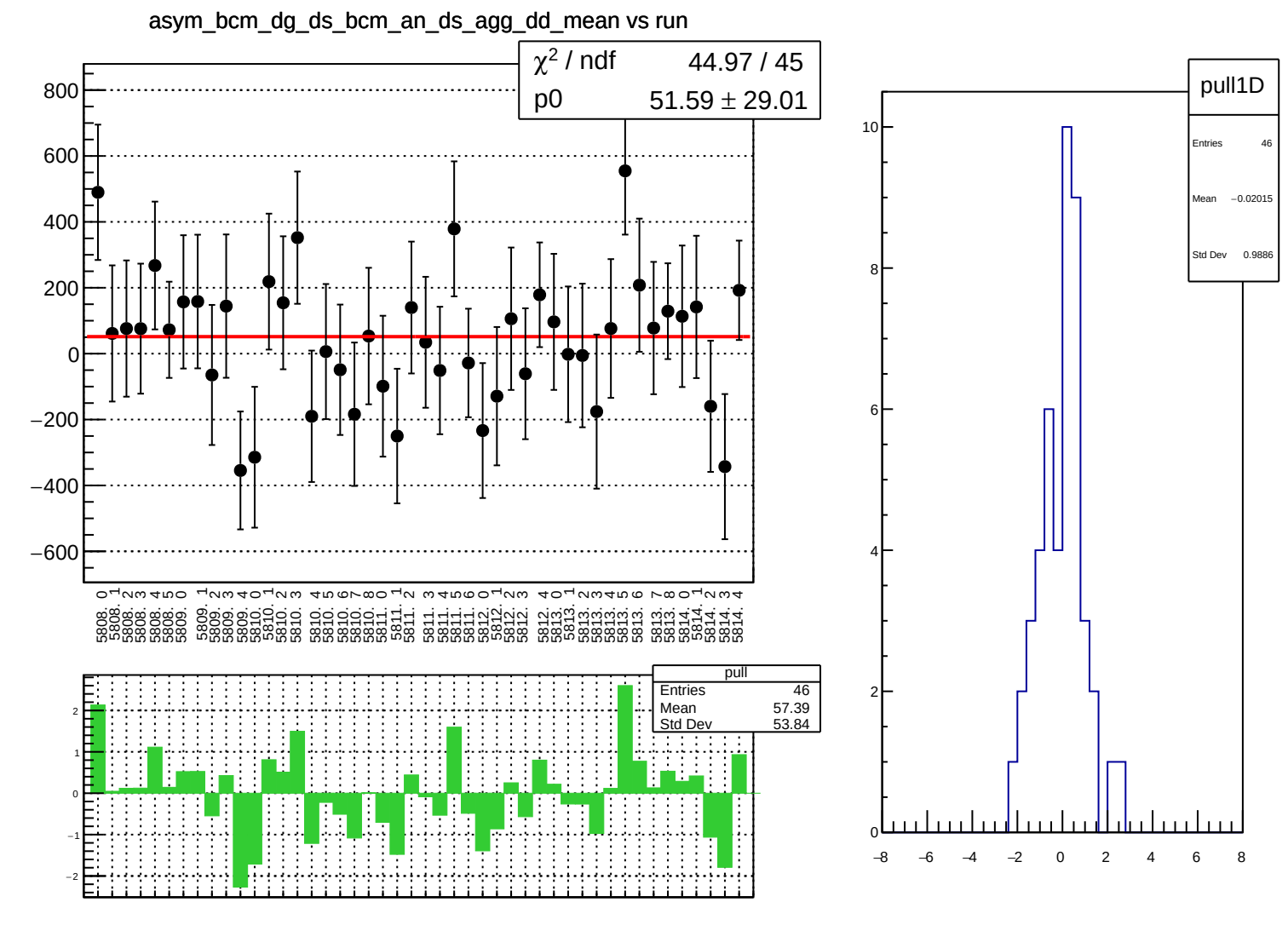

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 42.45 / 45
p0 37.43 ± 33.48
pull
Entries 46
Mean −59.03
Std Dev 110.7

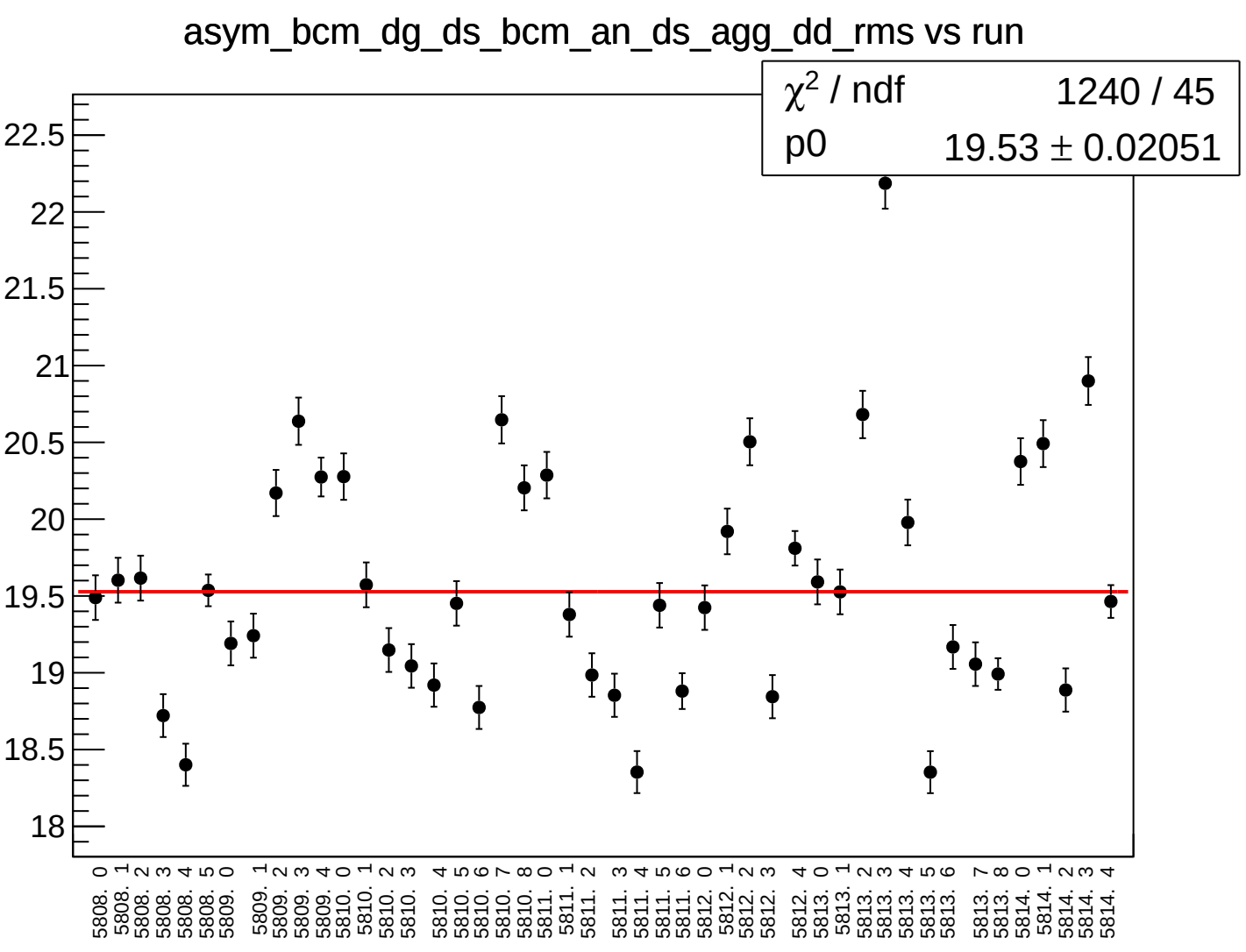

pull1D
Entries 46
Mean −0.01093
Std Dev 0.9605

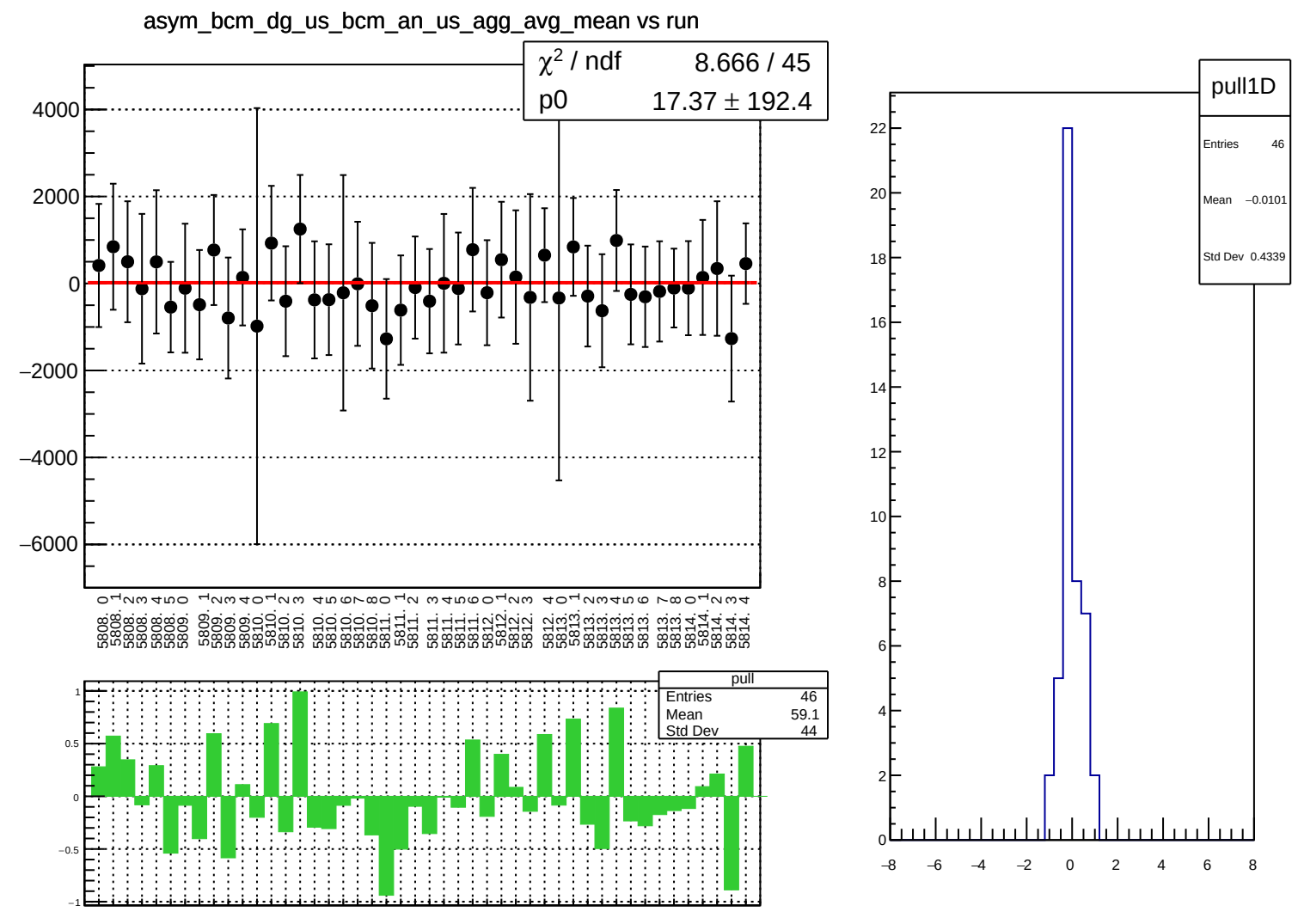

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 557.9 / 45
p0 22.55 ± 0.02368
25
24.5
24
23.5
23
22.5
22
21.5
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

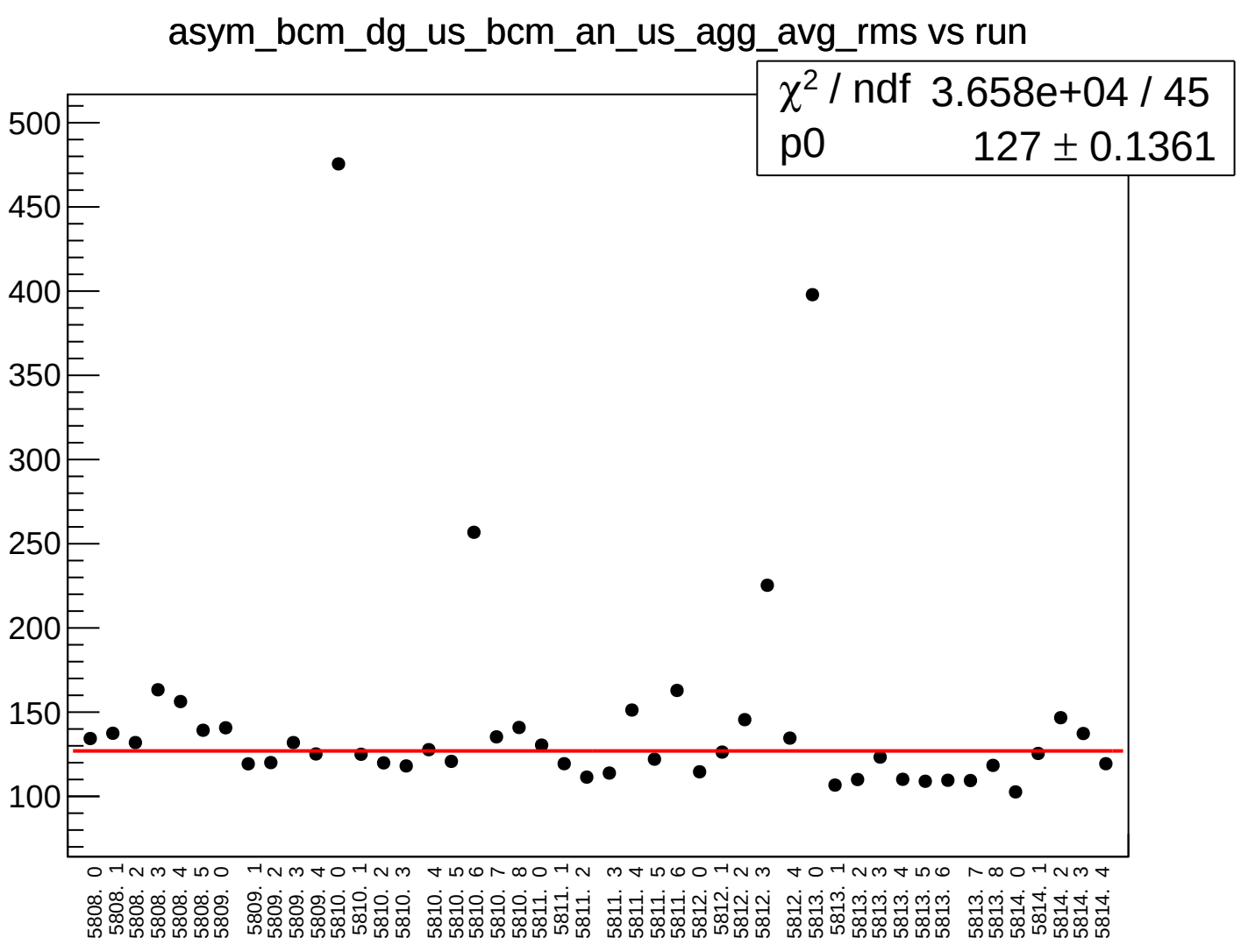

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.092 / 45
p0 19.58 ± 188.6
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 97.6
Std Dev 73.53
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01089
Std Dev 0.4445
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

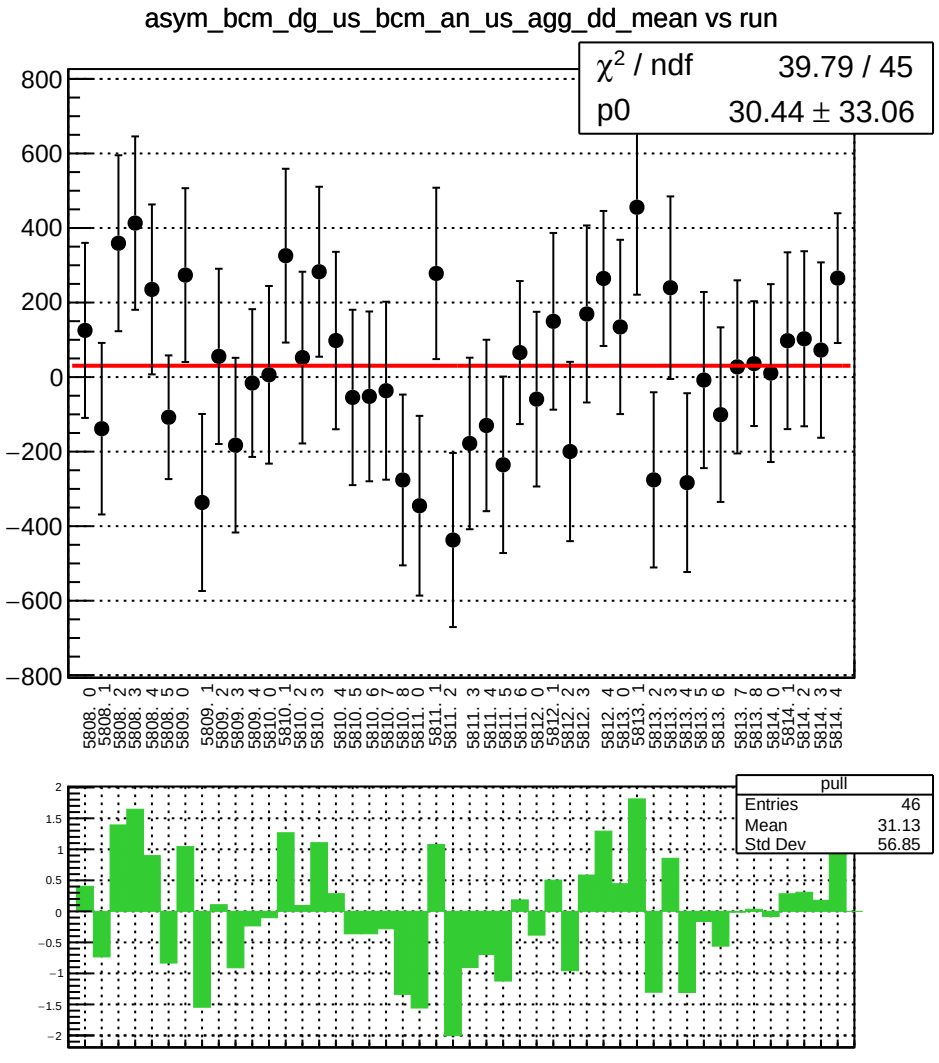

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.68e+04 / 45
p0 124.4 ± 0.1334
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

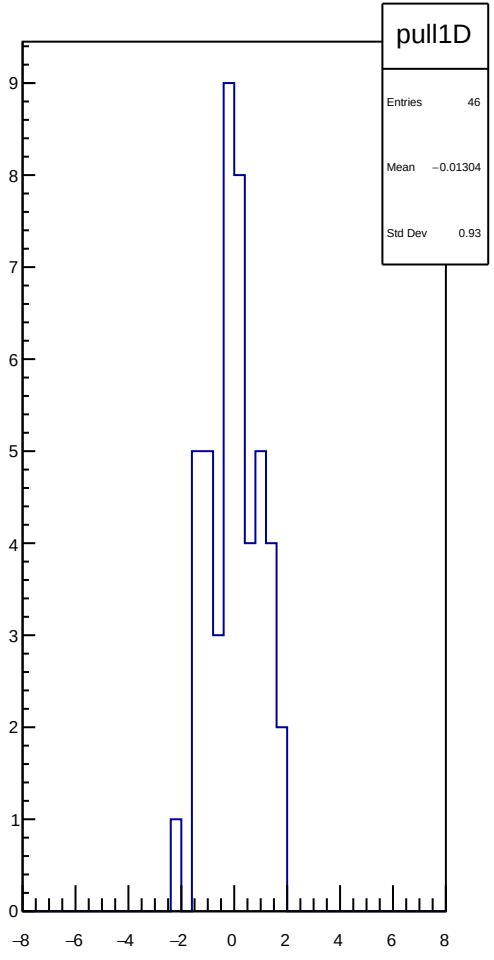

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.97 / 45
p0 51.59 ± 29.01
pull
Entries 46
Mean 57.39
Std Dev 53.84
pull1D
Entries 46
Mean −0.02015
Std Dev 0.9886

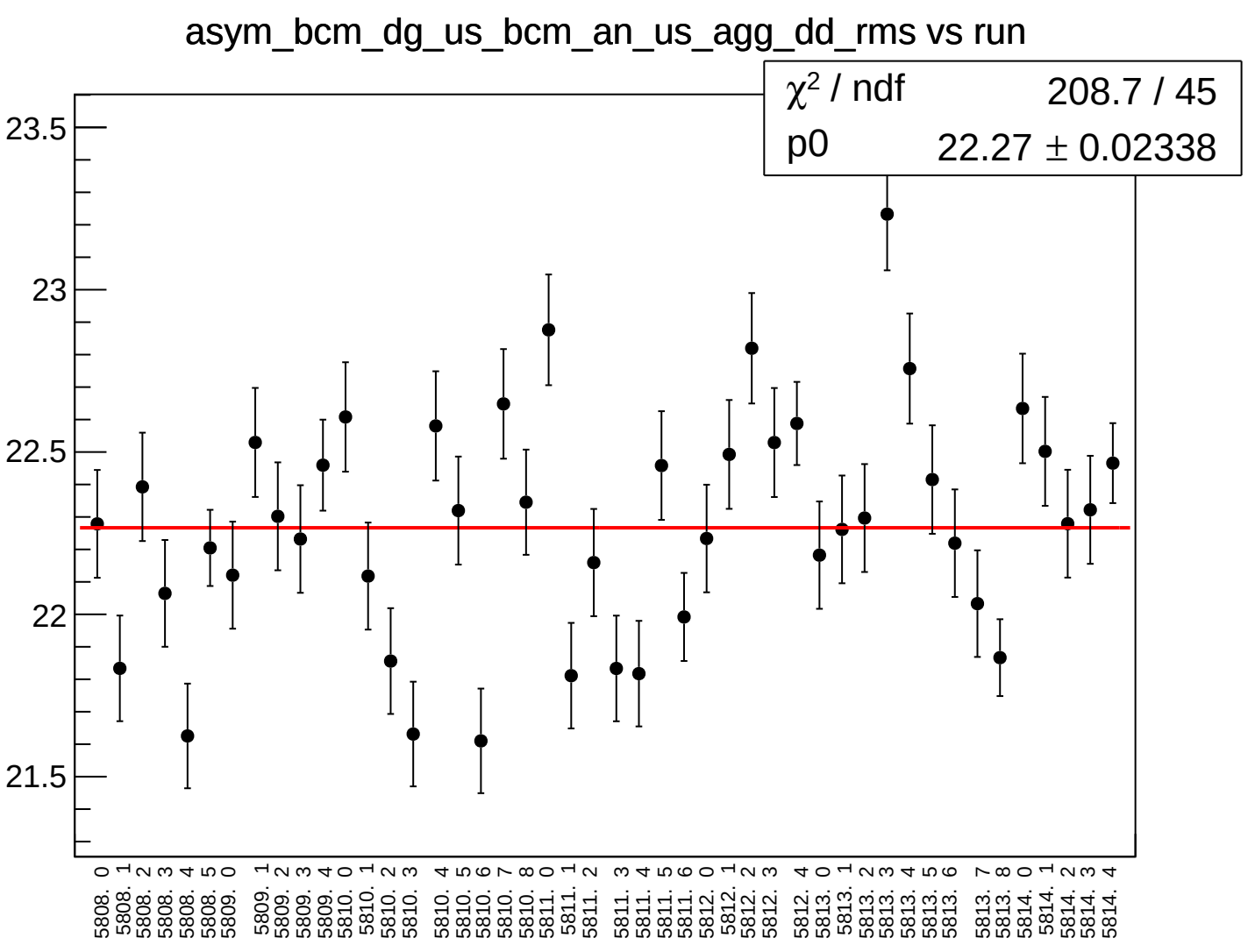

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1240 / 45
p0 19.53 ± 0.02051
22.5
22
21.5
21
20.5
20
19.5
19
18.5
18
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

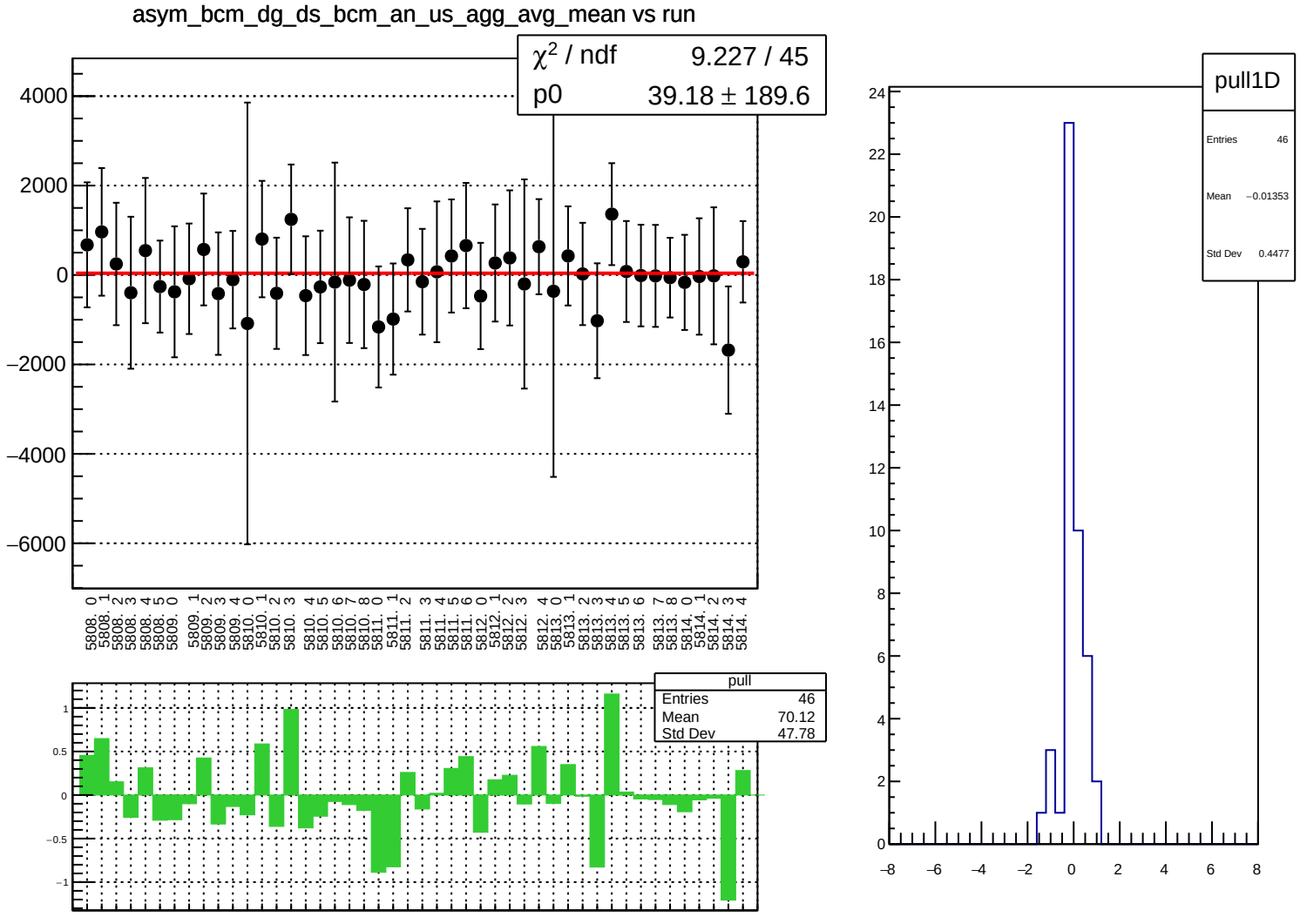

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.666 / 45
p0 17.37 ± 192.4
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 59.1
Std Dev 44
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.0101
Std Dev 0.4339
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

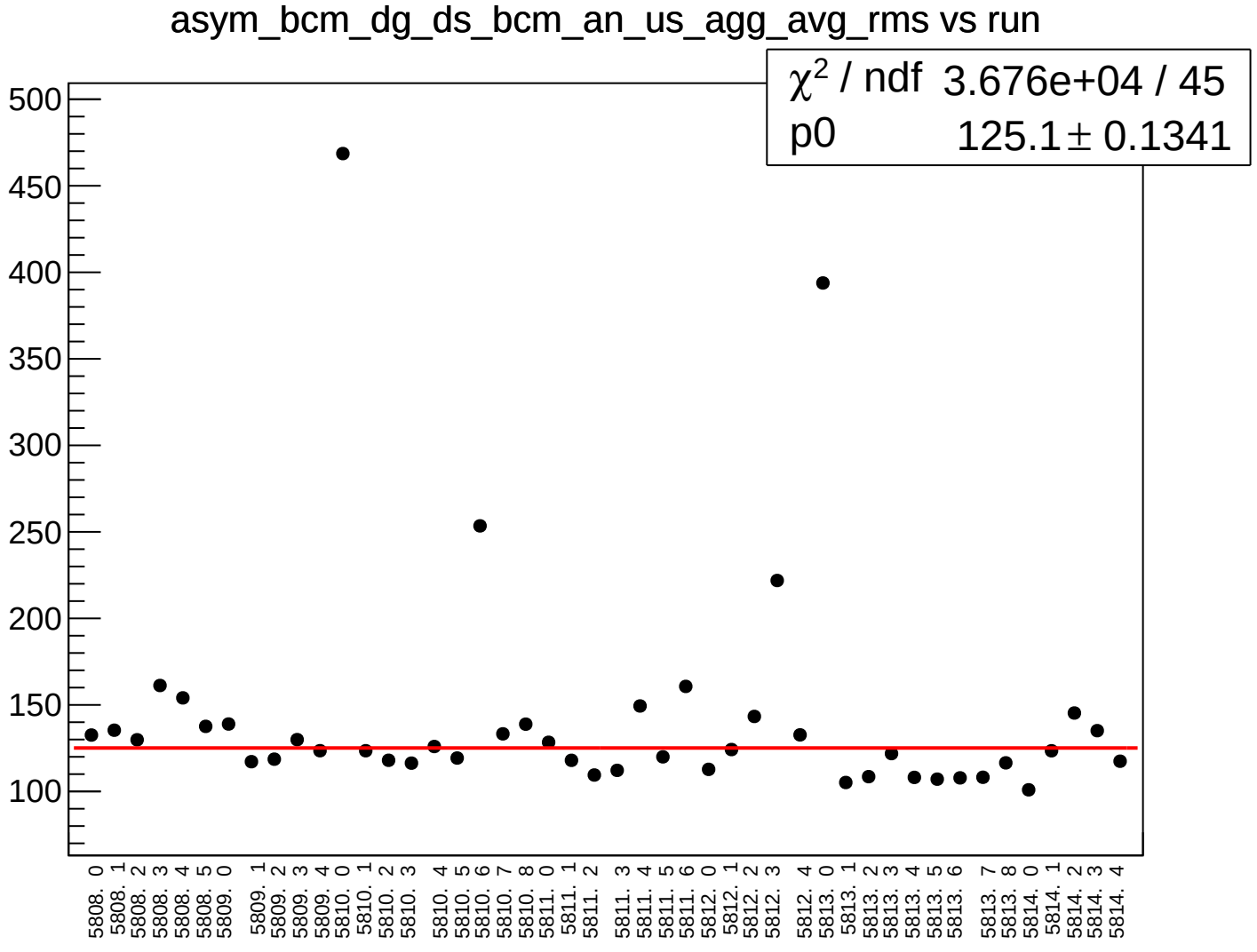

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.658e+04 / 45
p0 127 ± 0.1361
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

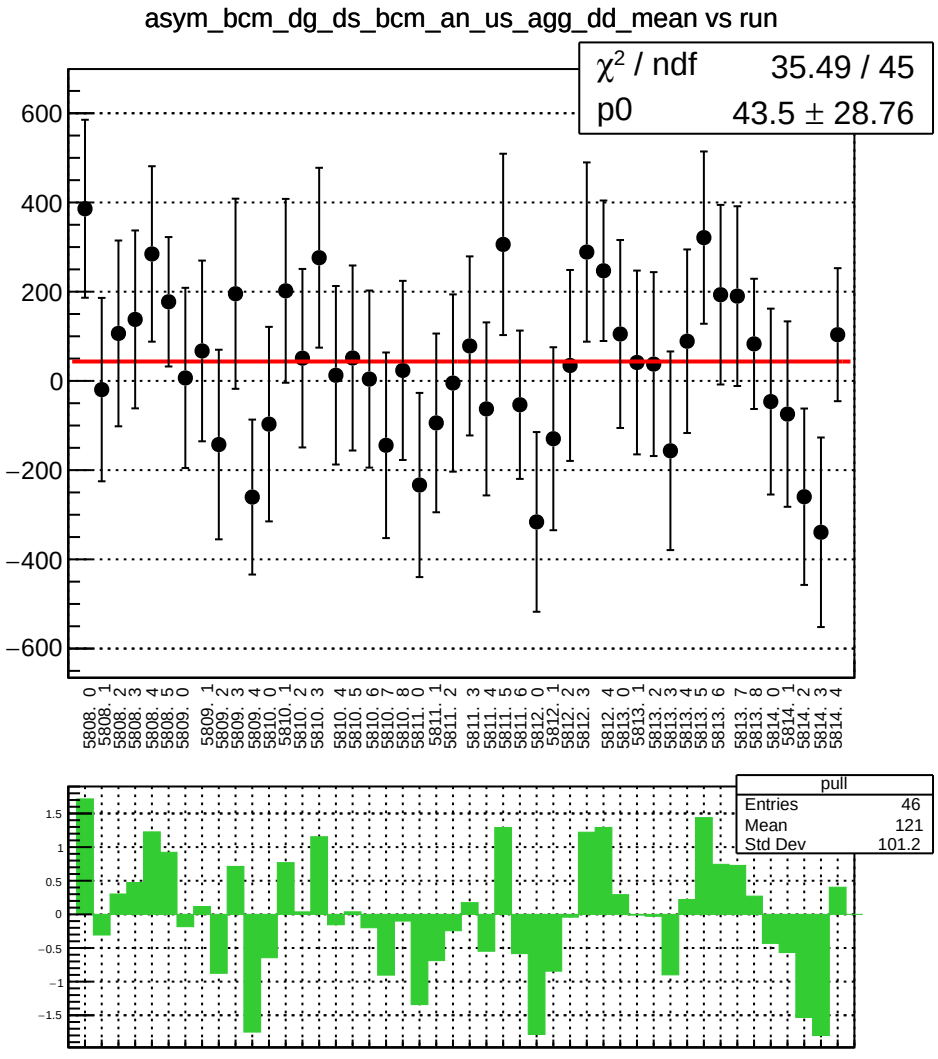

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 39.79 / 45
p0 30.44 ± 33.06
pull
Entries 46
Mean 31.13
Std Dev 56.85

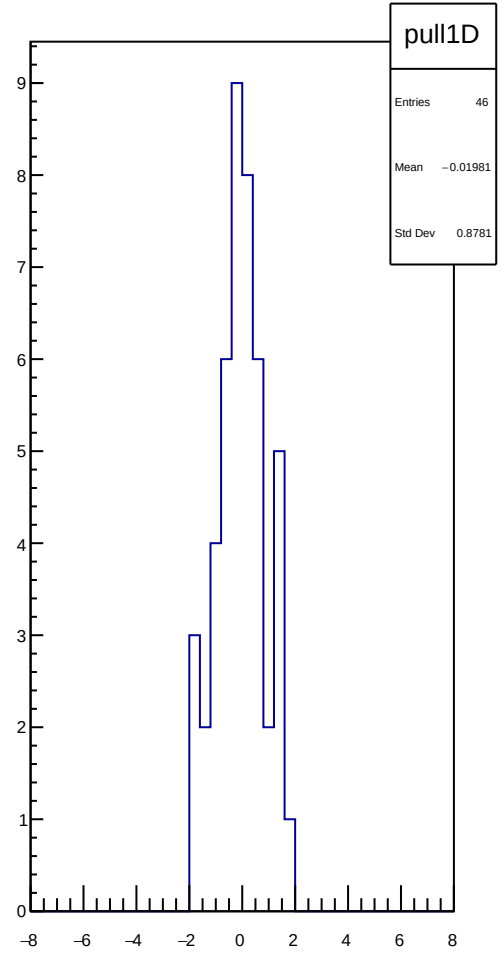

pull1D
Entries 46
Mean −0.01304
Std Dev 0.93

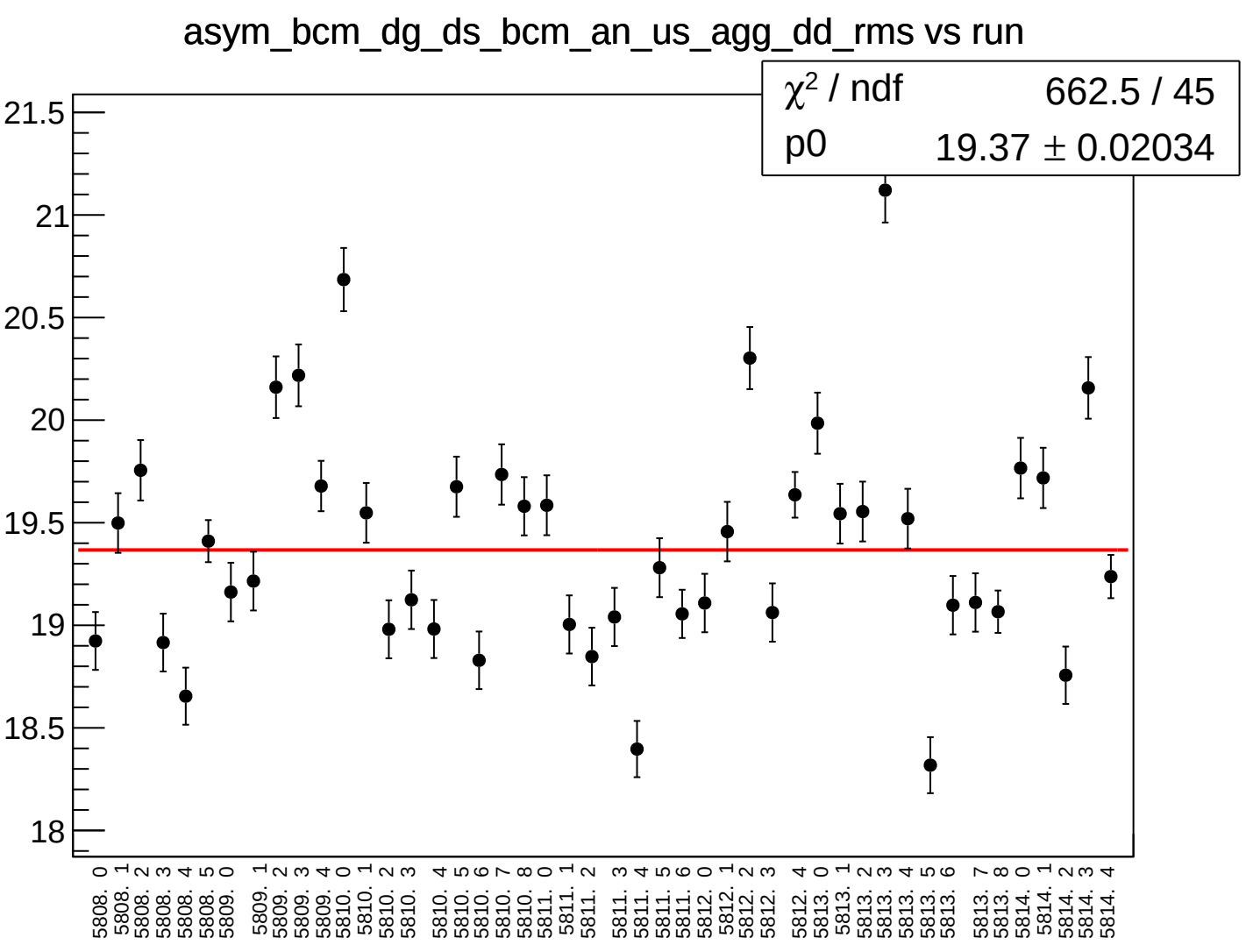

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 208.7 / 45
p0 22.27 ± 0.02338
23.5
23
22.5
22
21.5
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

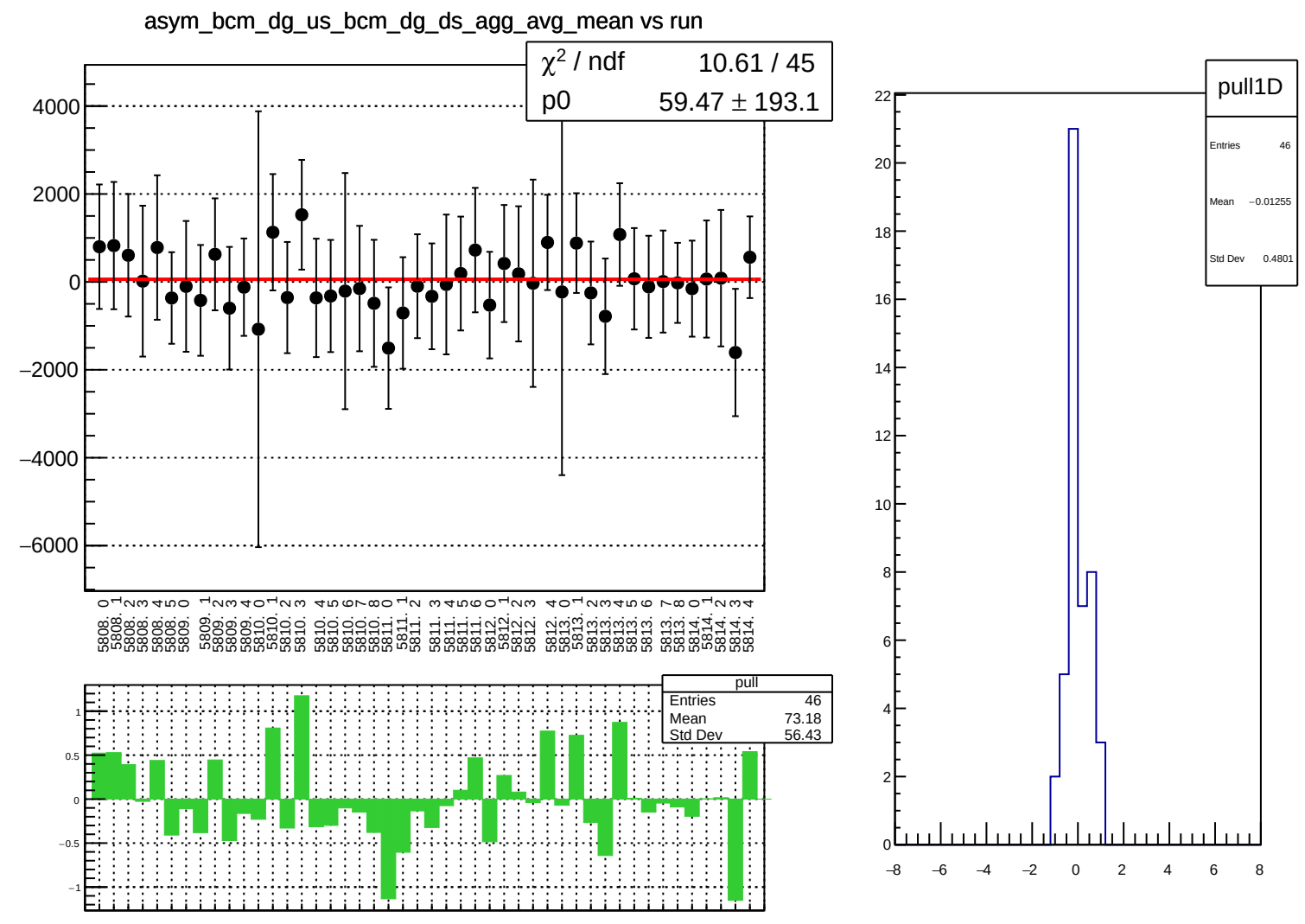

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.227 / 45
p0 39.18 ± 189.6
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 70.12
Std Dev 47.78
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01353
Std Dev 0.4477
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

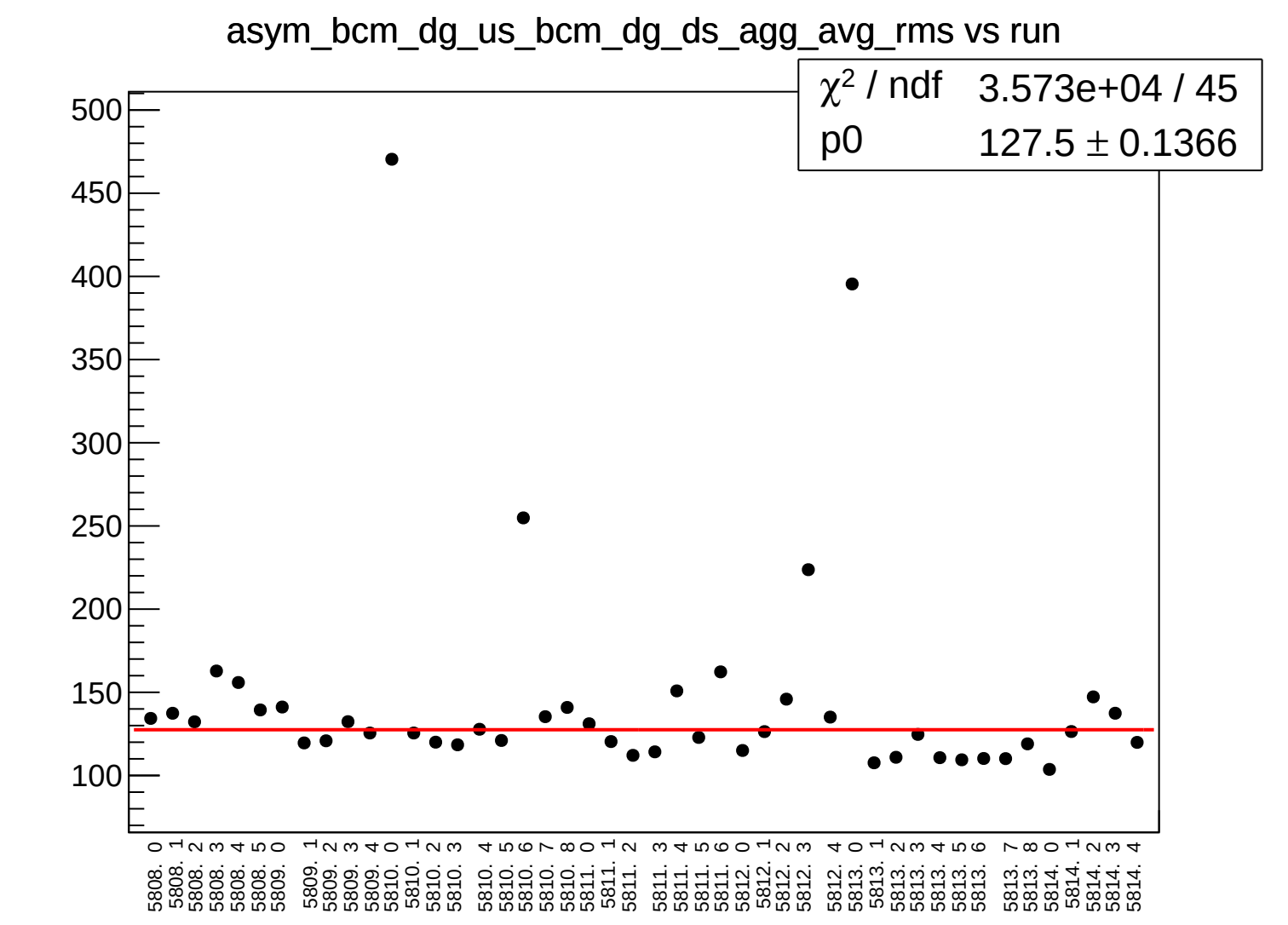

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.676e+04 / 45
p0 125.1 ± 0.1341
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

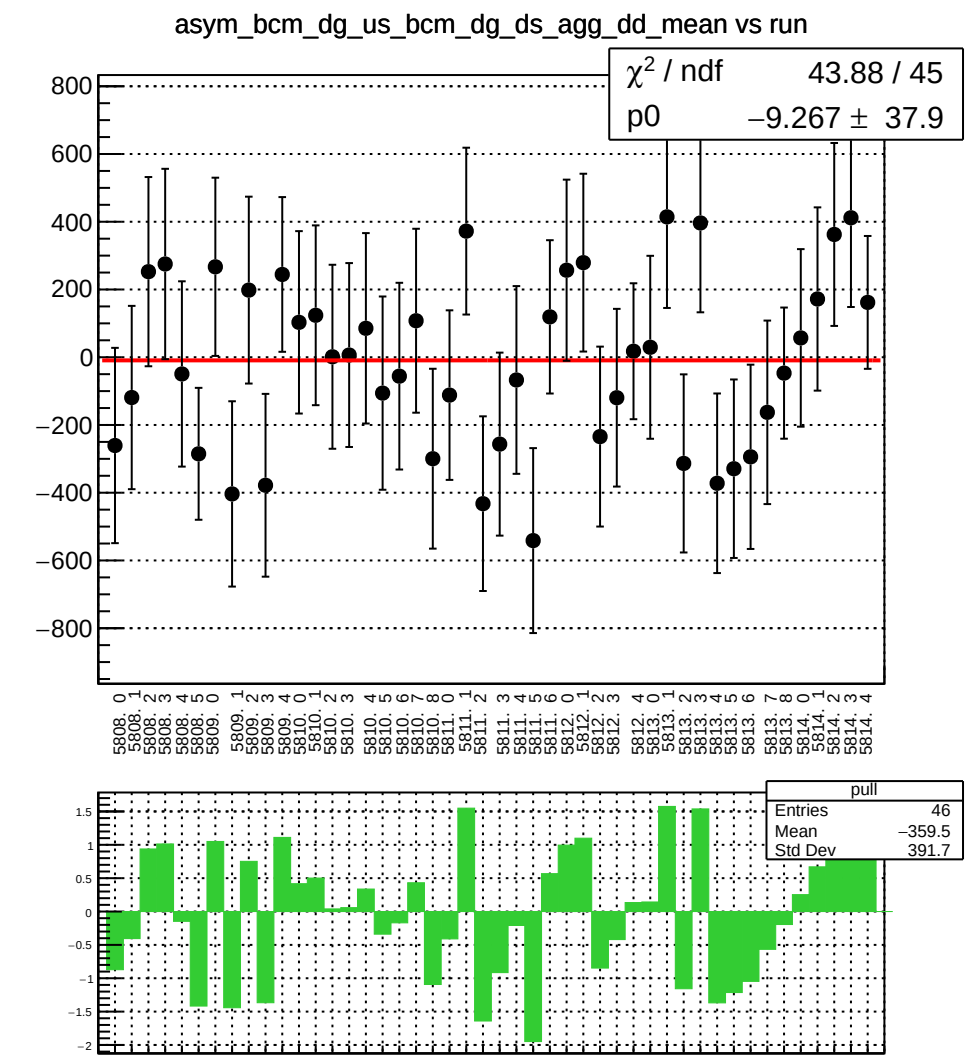

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 35.49 / 45
p0 43.5 ± 28.76
pull
Entries 46
Mean 121
Std Dev 101.2

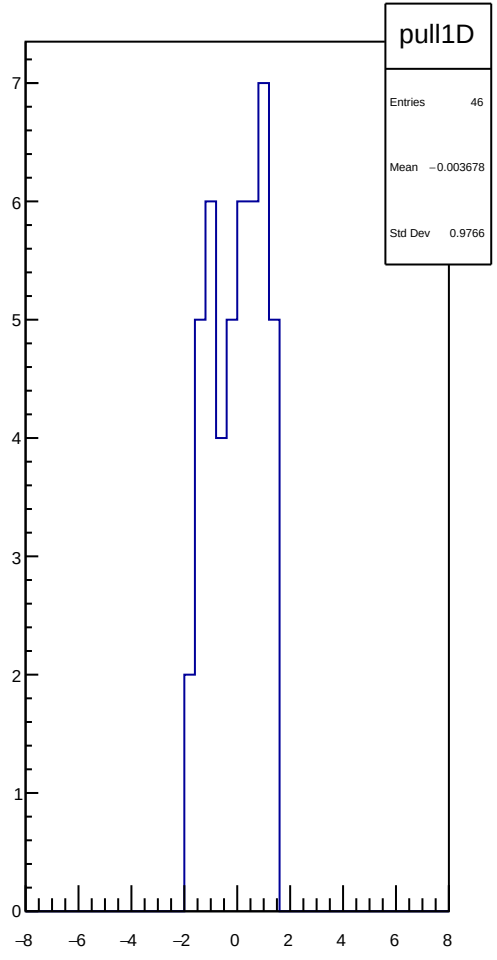

pull1D
Entries 46
Mean −0.01981
Std Dev 0.8781

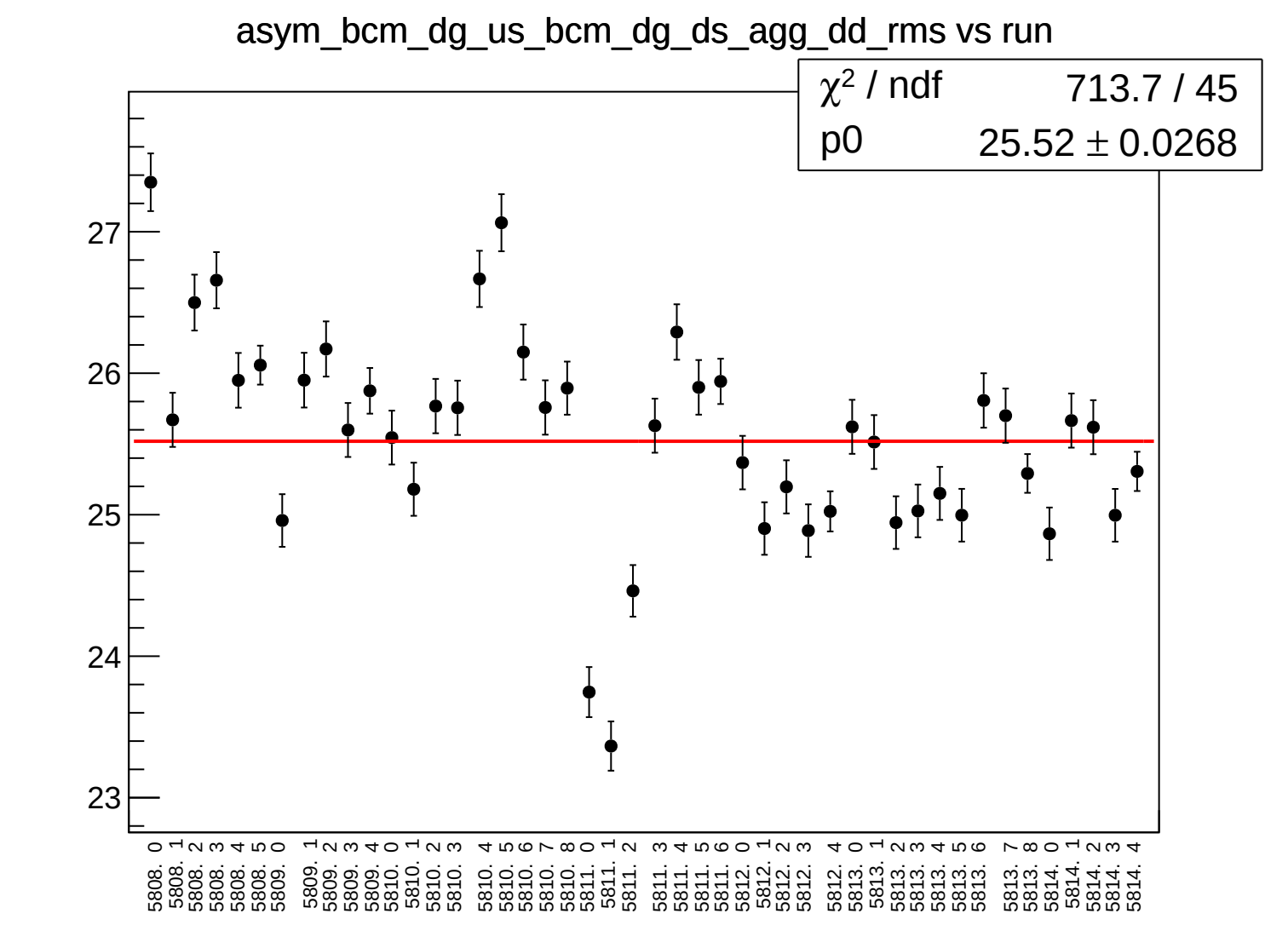

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 662.5 / 45
p0 19.37 ± 0.02034
21.5
21
20.5
20
19.5
19
18.5
18
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

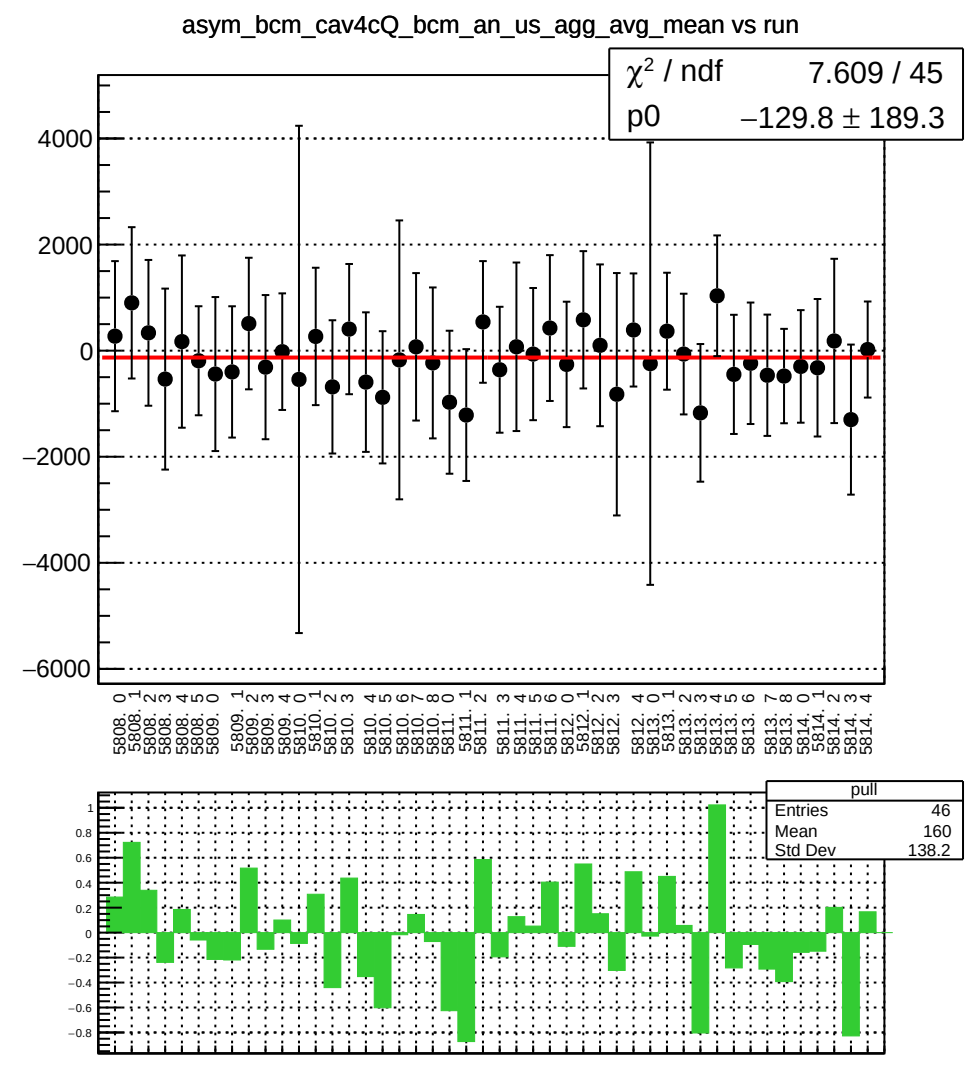

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.61 / 45
p0 59.47 ± 193.1
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 73.18
Std Dev 56.43
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01255
Std Dev 0.4801
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

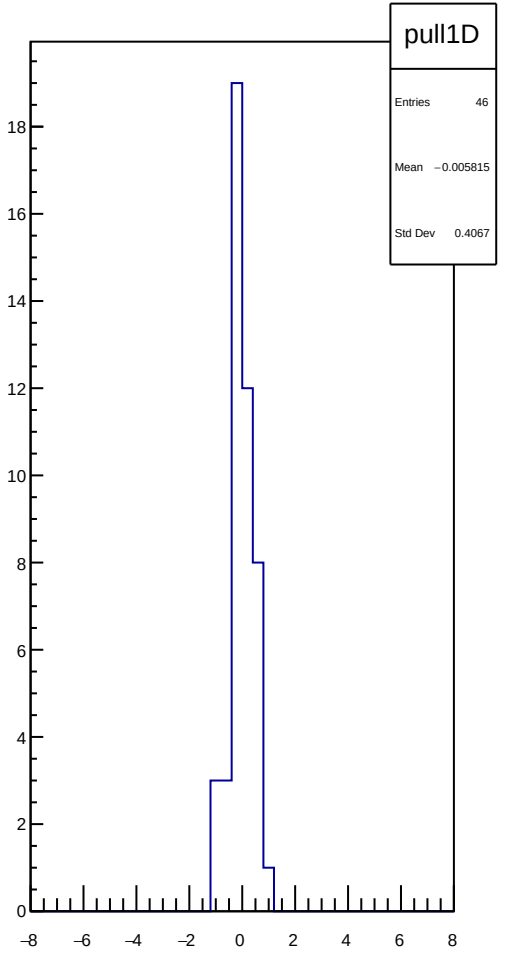

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.573e+04 / 45
p0 127.5 ± 0.1366
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

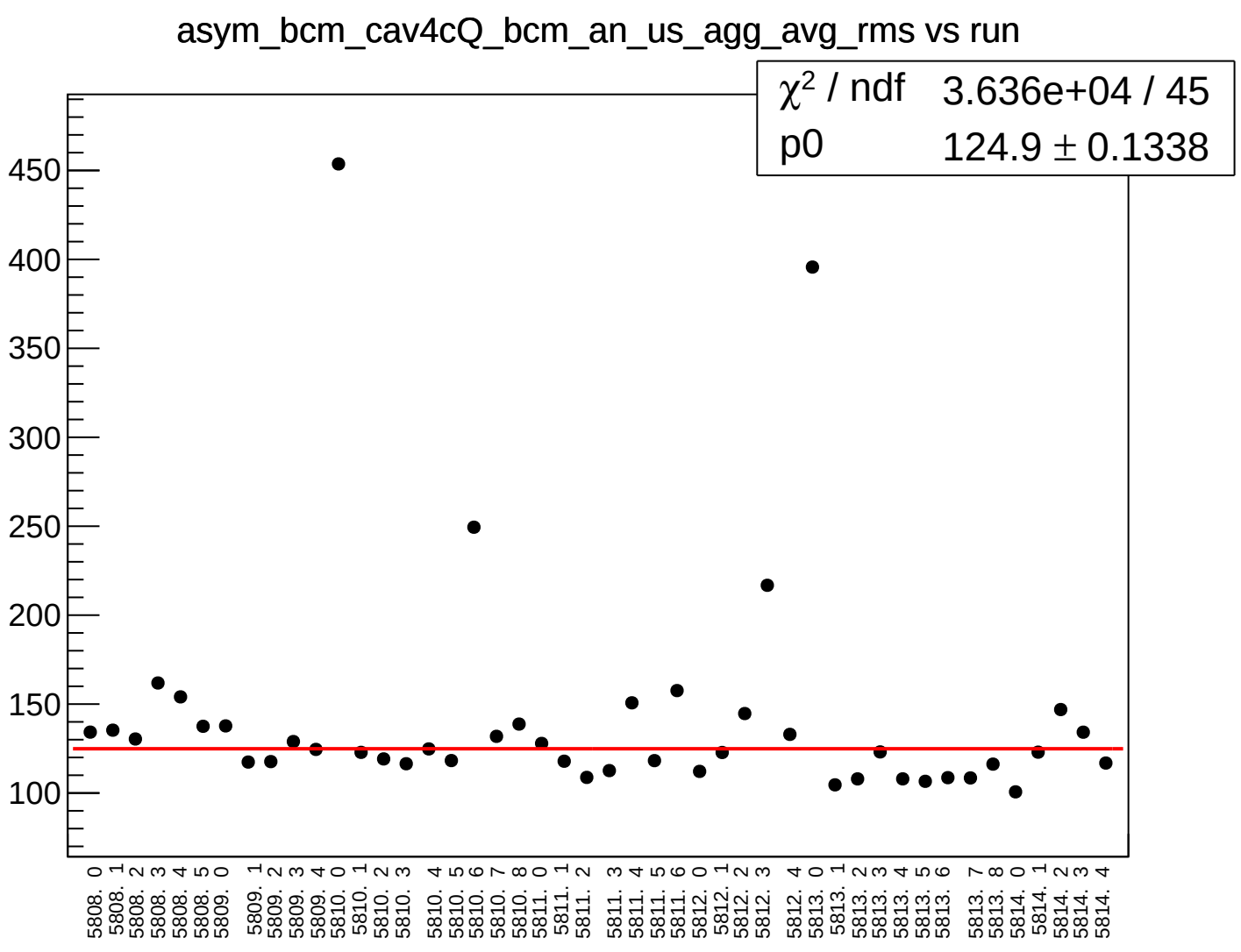

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 43.88 / 45
p0 −9.267 ± 37.9
pull
Entries 46
Mean −359.5
Std Dev 391.7

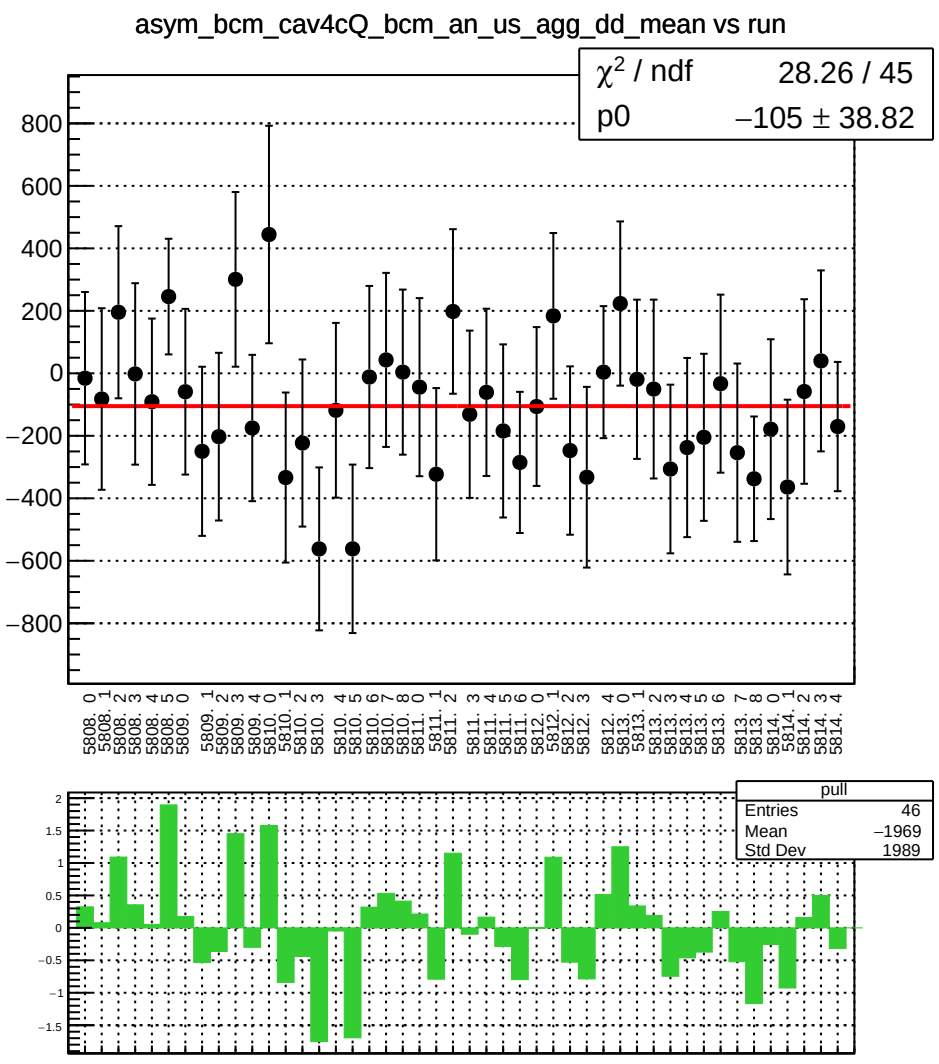

pull1D
Entries 46
Mean −0.003678
Std Dev 0.9766

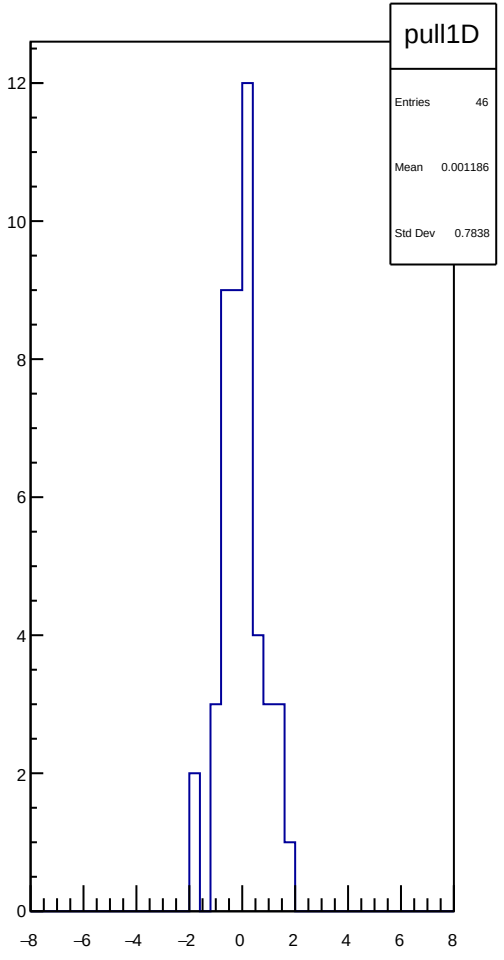

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 713.7 / 45
p0 25.52 ± 0.0268
27
26
25
24
23
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

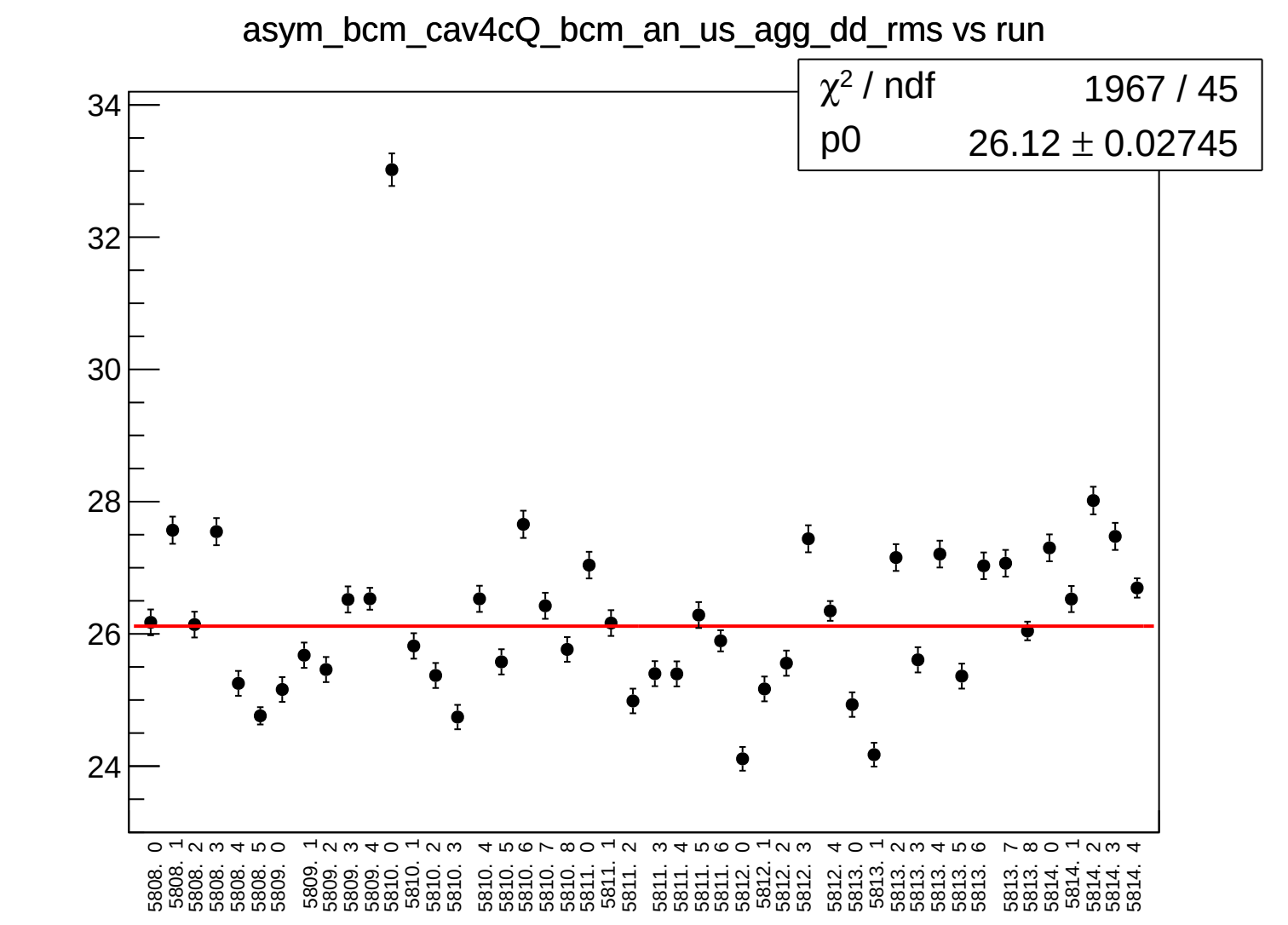

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.609 / 45
p0 −129.8 ± 189.3
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 160
Std Dev 138.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

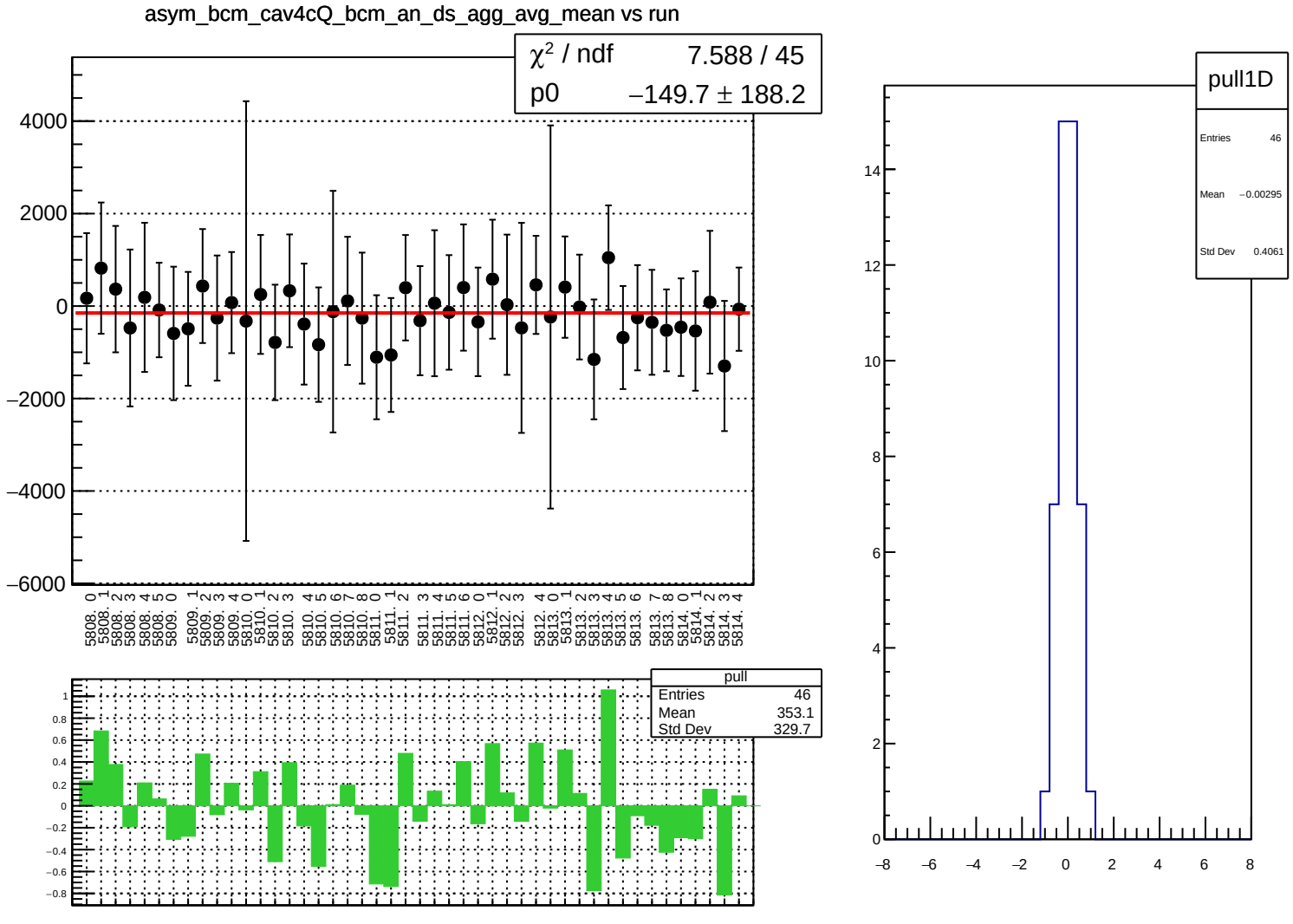

pull1D
Entries 46
Mean −0.005815
Std Dev 0.4067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

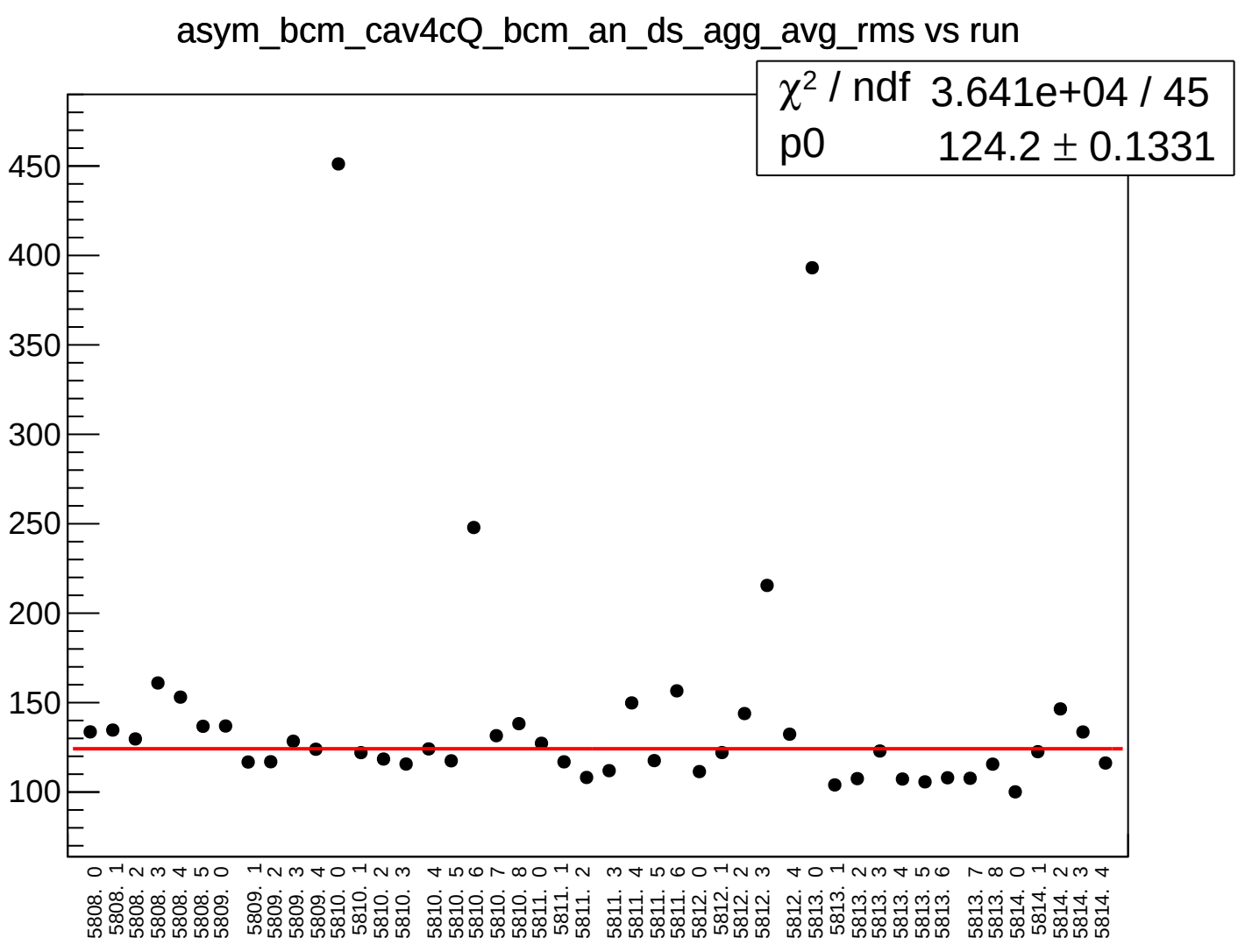

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.636e+04 / 45
p0 124.9 ± 0.1338
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

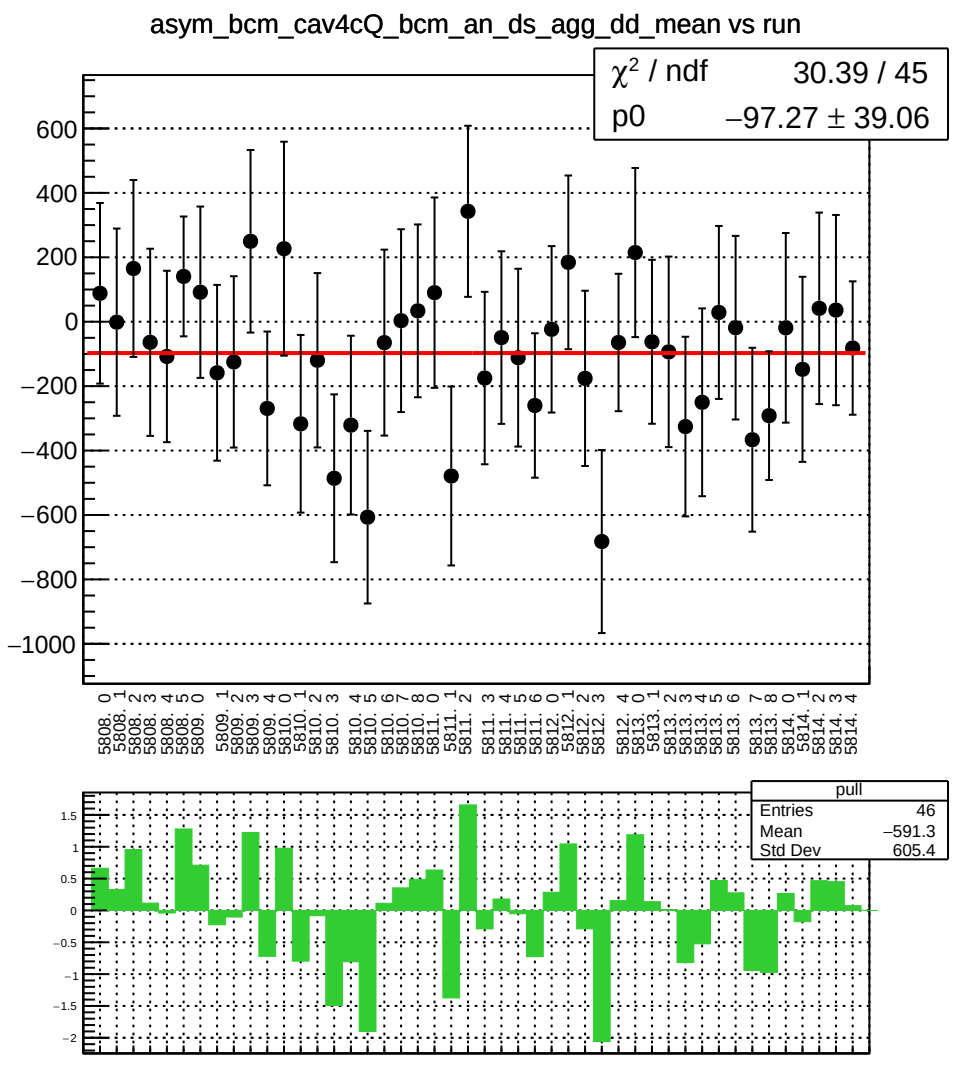

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 28.26 / 45
p0 −105 ± 38.82
800
600
400
200
0
−200
−400
−600
−800
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1969
Std Dev 1989
2
1.5
1
0.5
0
−0.5
−1
−1.5

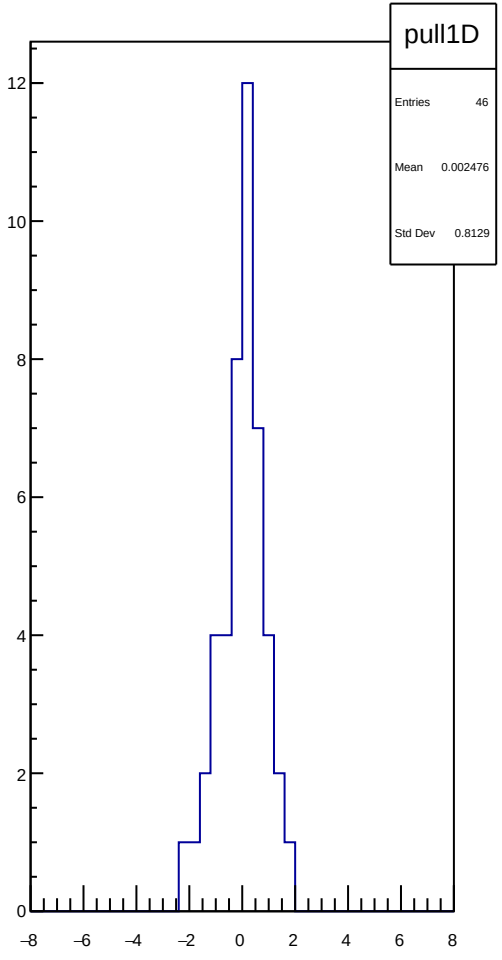

pull1D
Entries 46
Mean 0.001186
Std Dev 0.7838
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

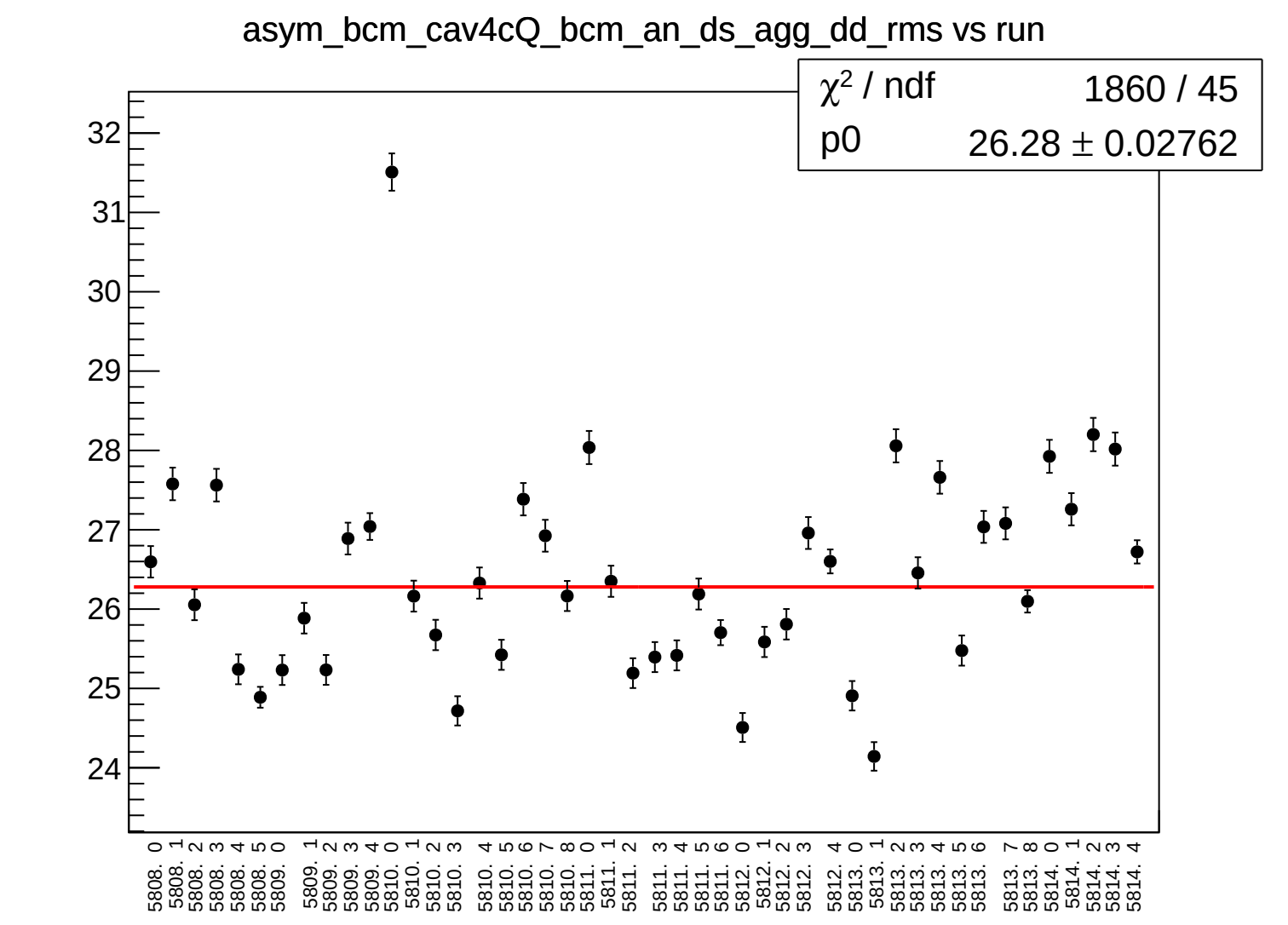

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1967 / 45
p0 26.12 ± 0.02745
34
32
30
28
26
24
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

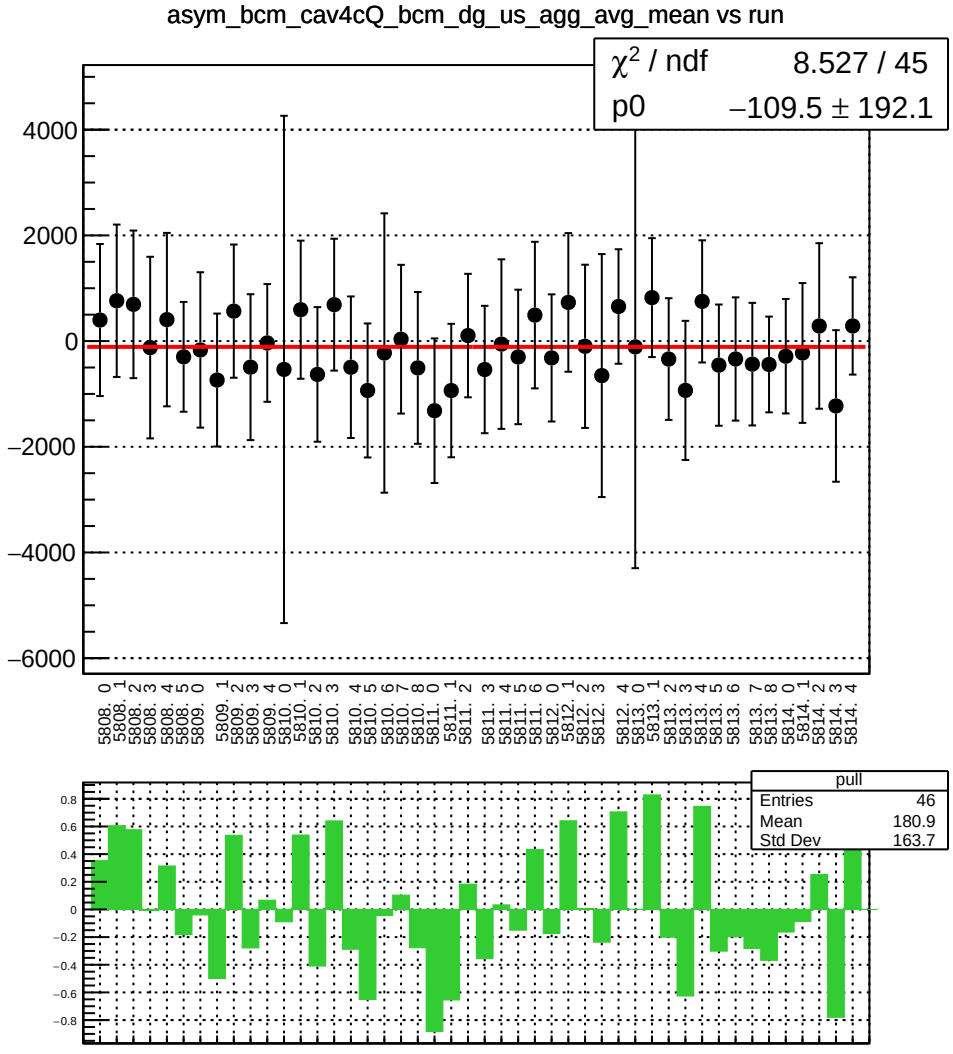

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.588 / 45
p0 −149.7 ± 188.2
pull
Entries 46
Mean 353.1
Std Dev 329.7
pull1D
Entries 46
Mean −0.00295
Std Dev 0.4061

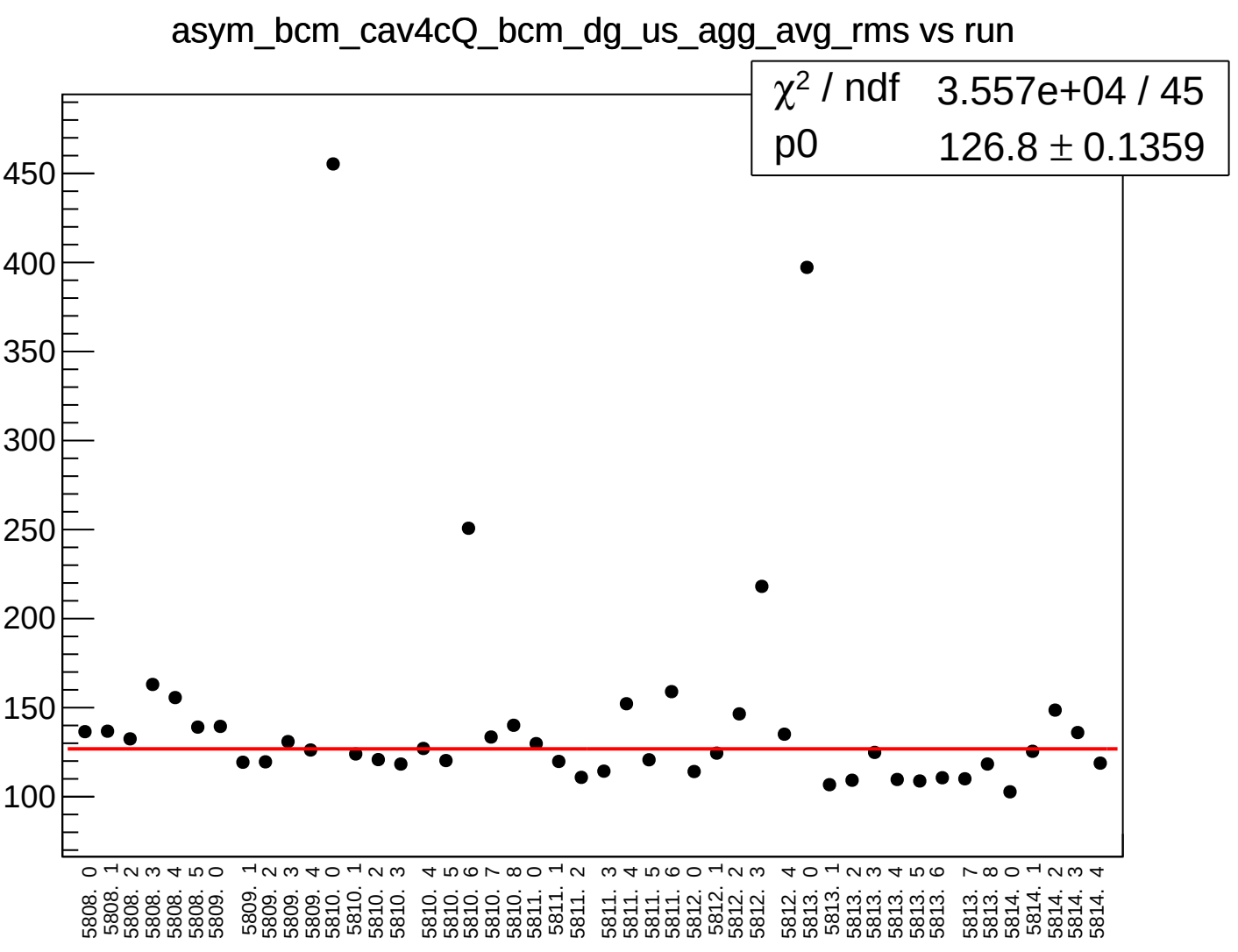

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.641e+04 / 45
p0 124.2 ± 0.1331
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

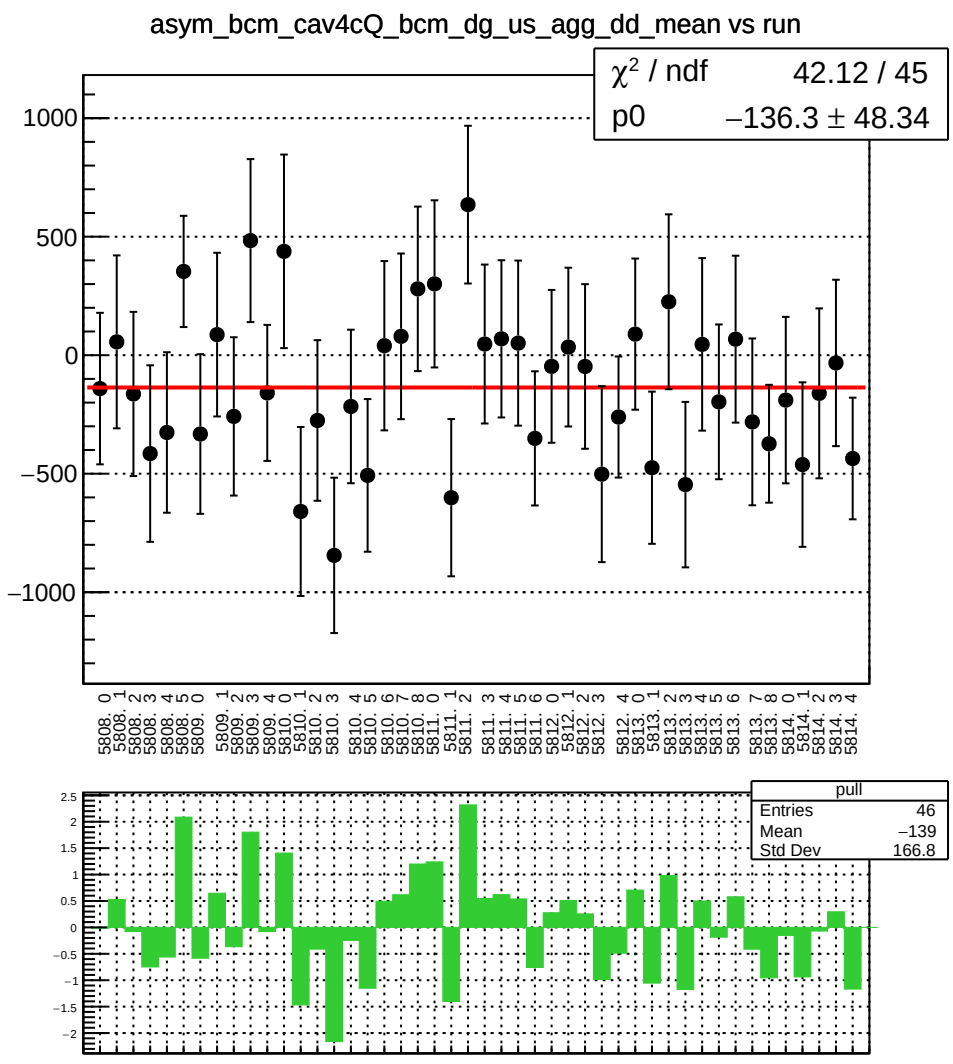

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 30.39 / 45
p0 −97.27 ± 39.06
pull
Entries 46
Mean −591.3
Std Dev 605.4

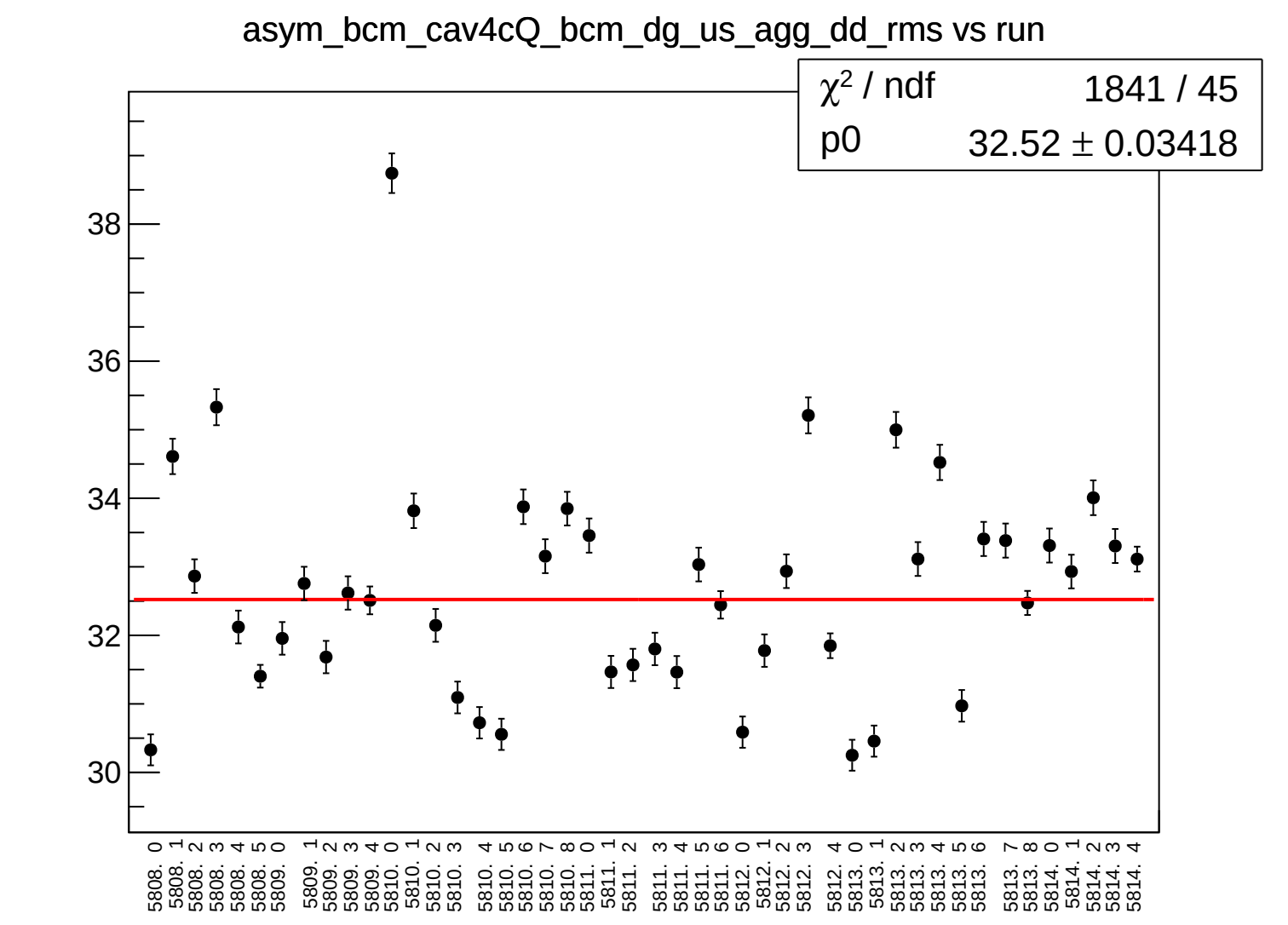

pull1D
Entries 46
Mean 0.002476
Std Dev 0.8129

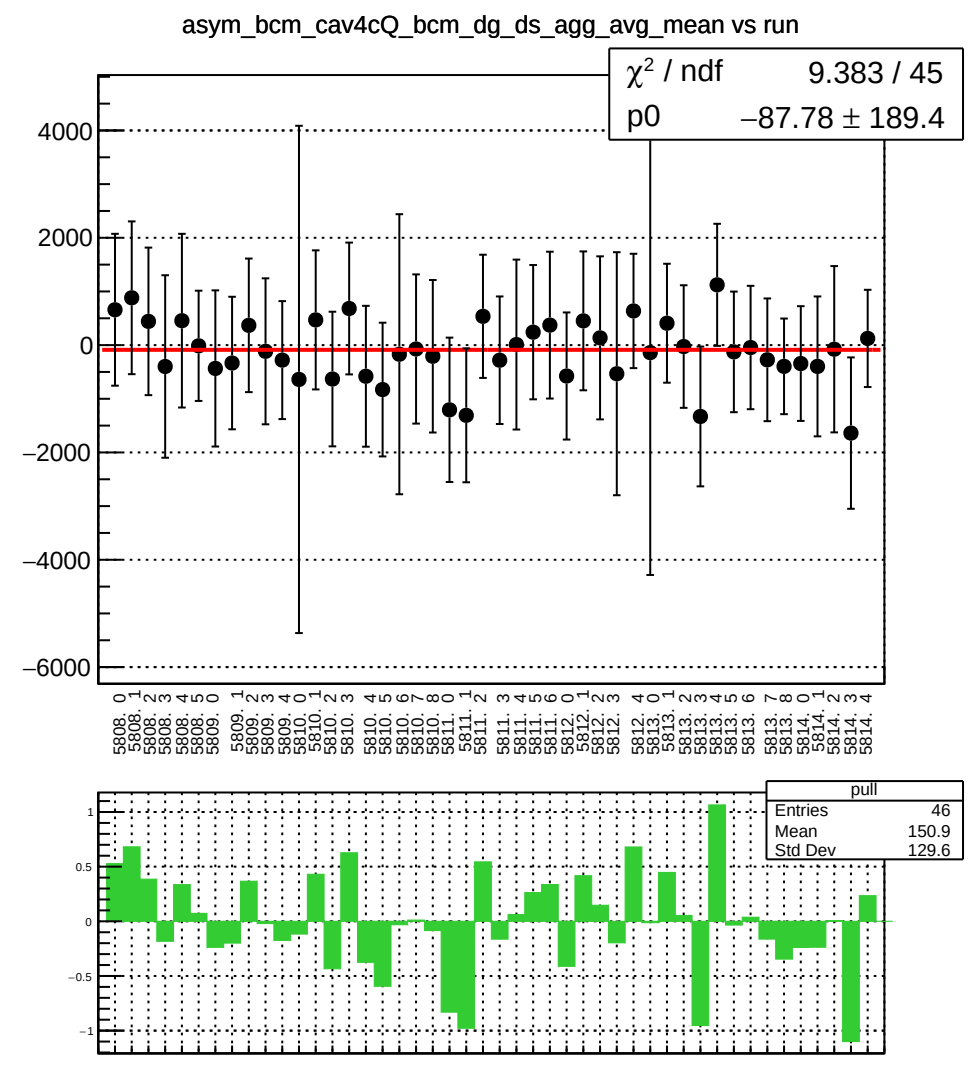

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1860 / 45
p0 26.28 ± 0.02762
32
31
30
29
28
27
26
25
24
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

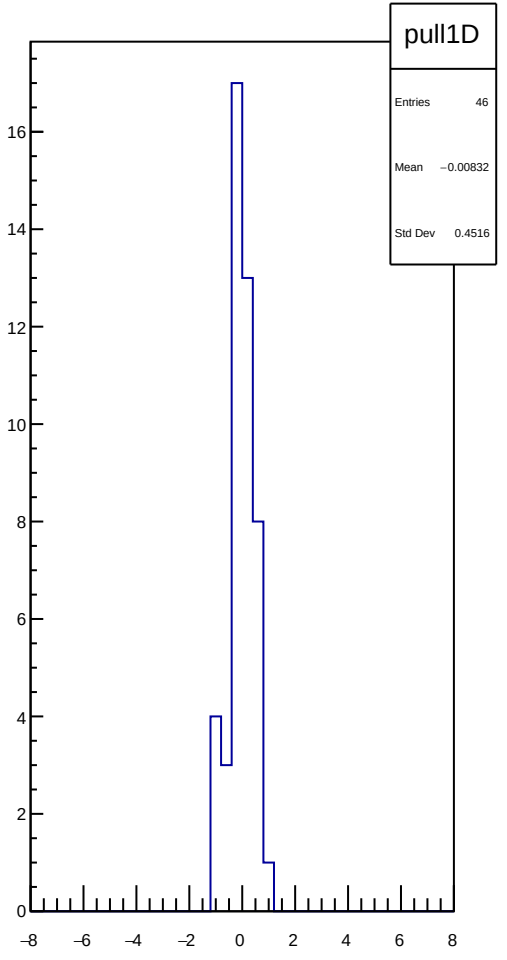

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 8.527 / 45
p0 −109.5 ± 192.1
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 180.9
Std Dev 163.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.004979
Std Dev 0.4305
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

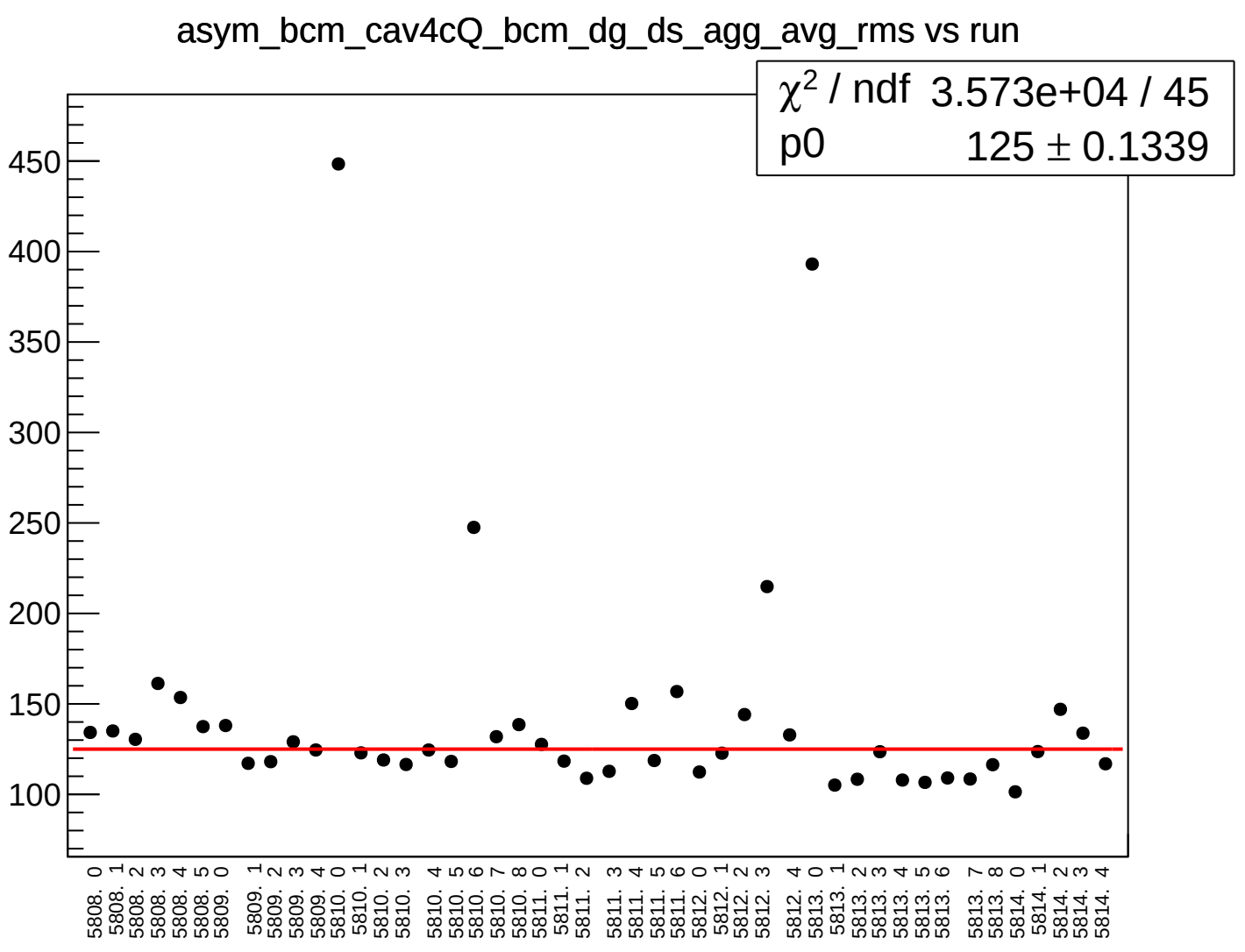

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.557e+04 / 45
p0 126.8 ± 0.1359
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

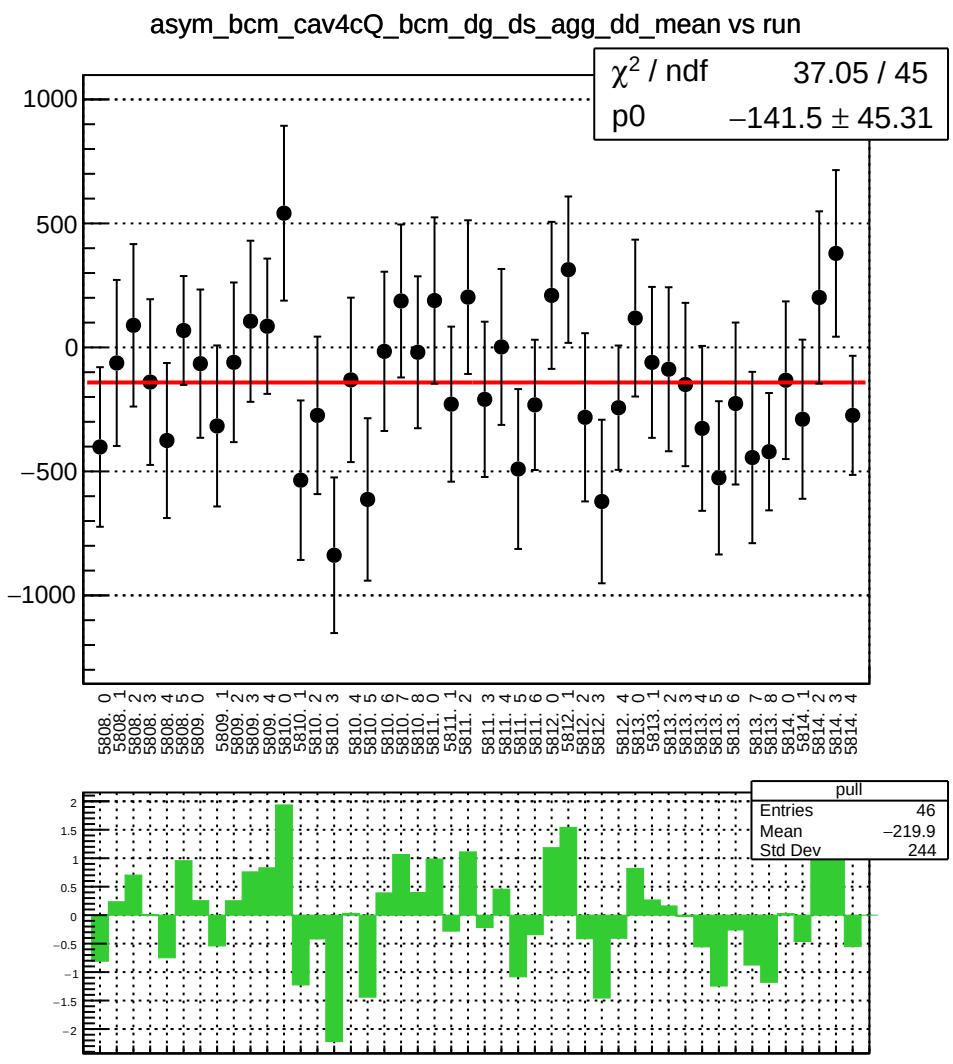

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 42.12 / 45
p0 −136.3 ± 48.34
1000
500
0
−500
−1000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −139
Std Dev 166.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01168
Std Dev 0.9568
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

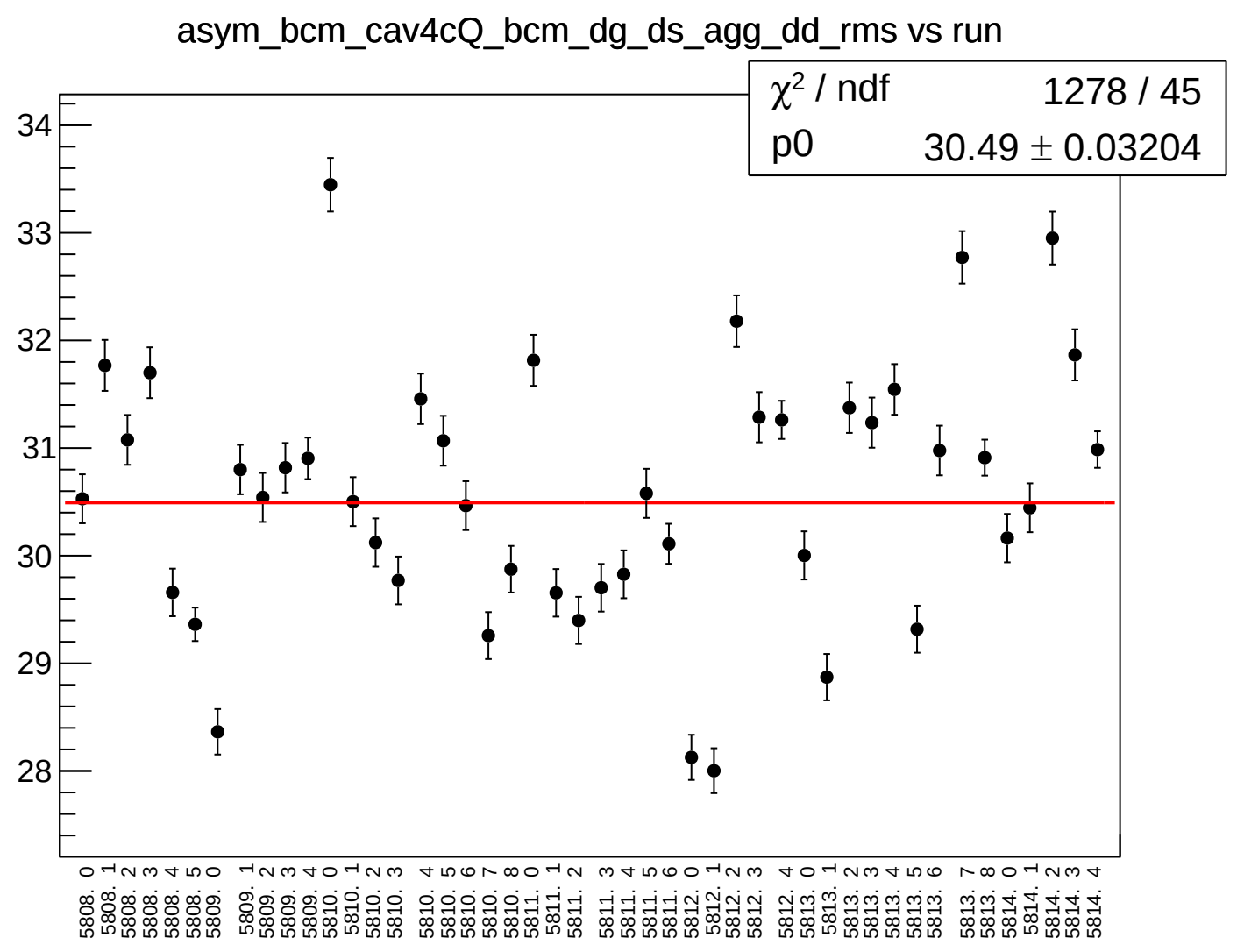

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1841 / 45
p0 32.52 ± 0.03418
38
36
34
32
30
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

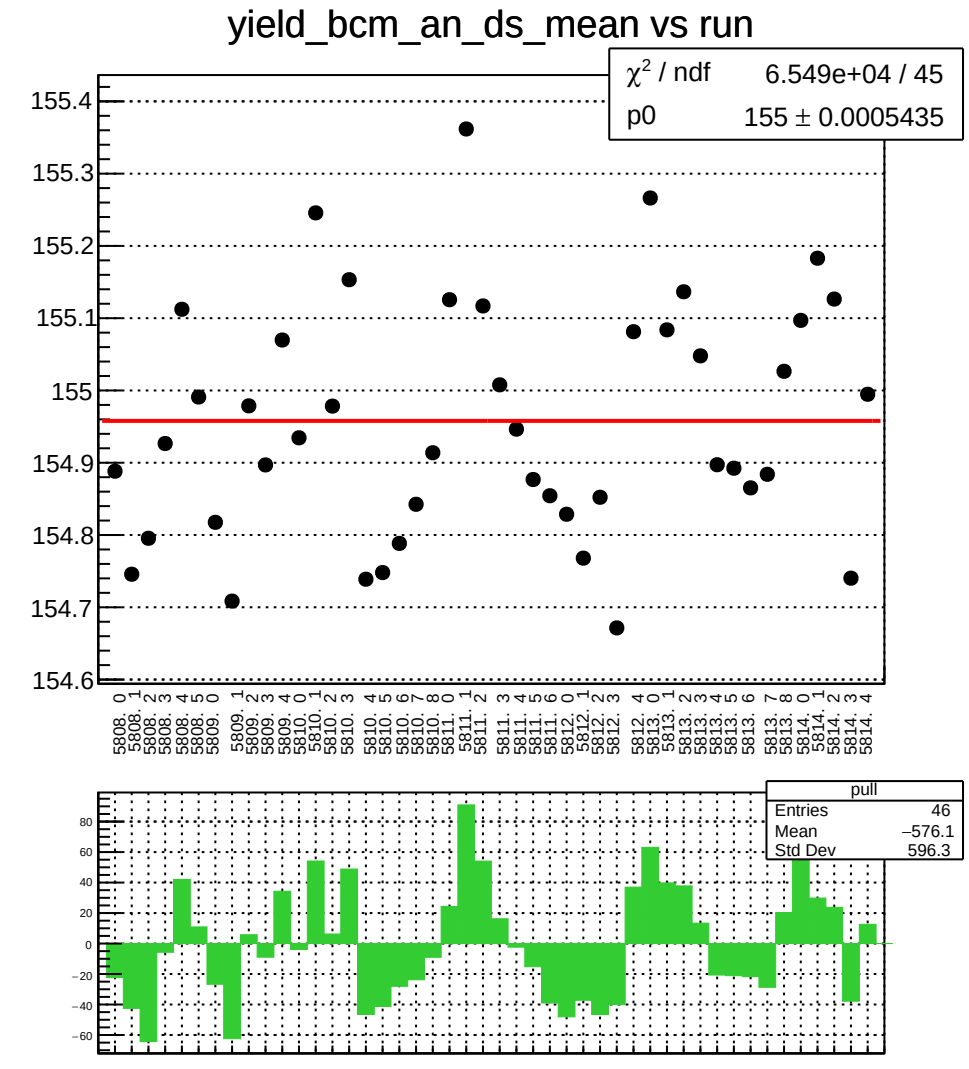

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.383 / 45
p0 −87.78 ± 189.4
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 150.9
Std Dev 129.6
1
0.5
0
−0.5
−1

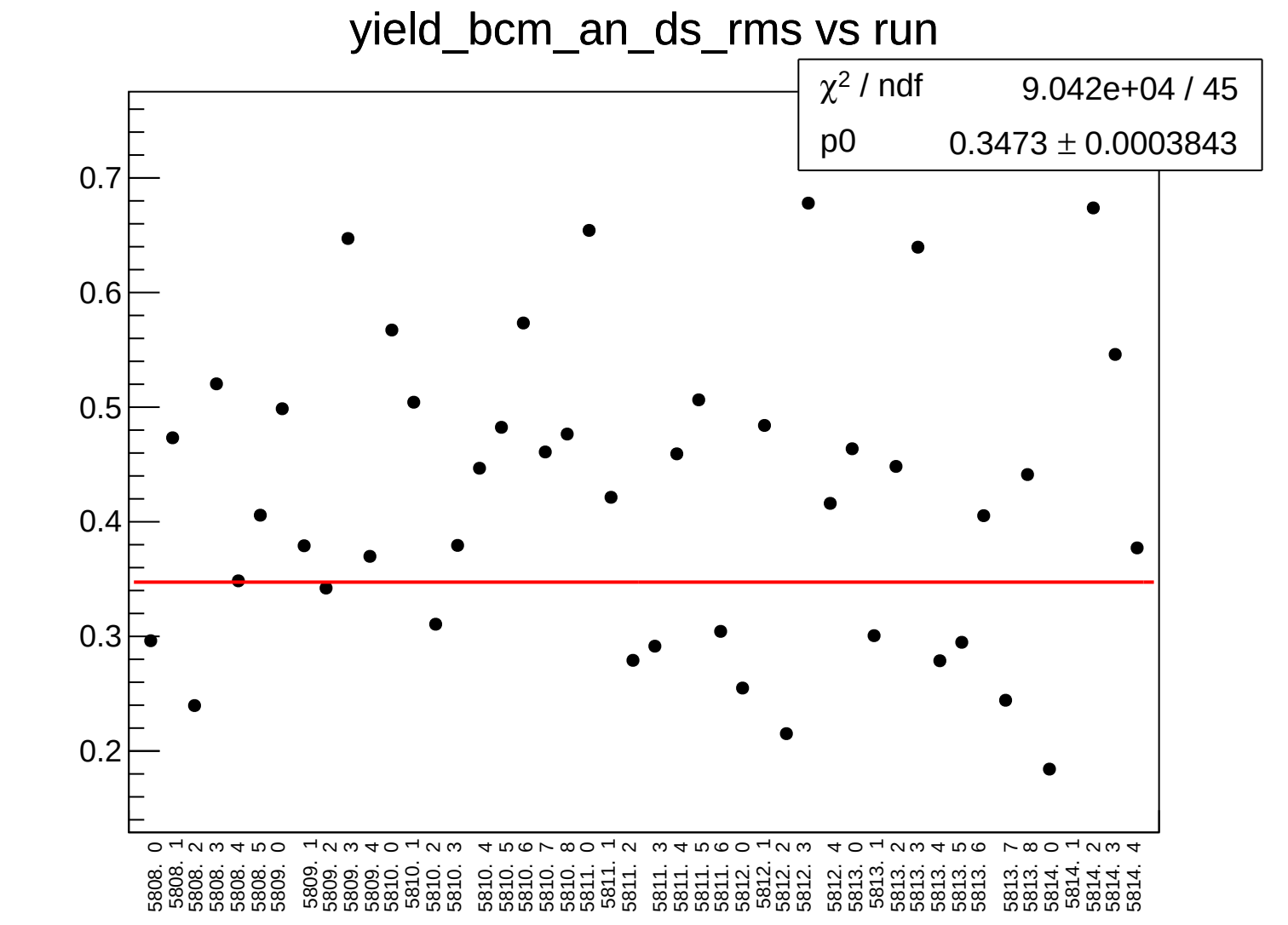

pull1D
Entries 46
Mean −0.00832
Std Dev 0.4516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

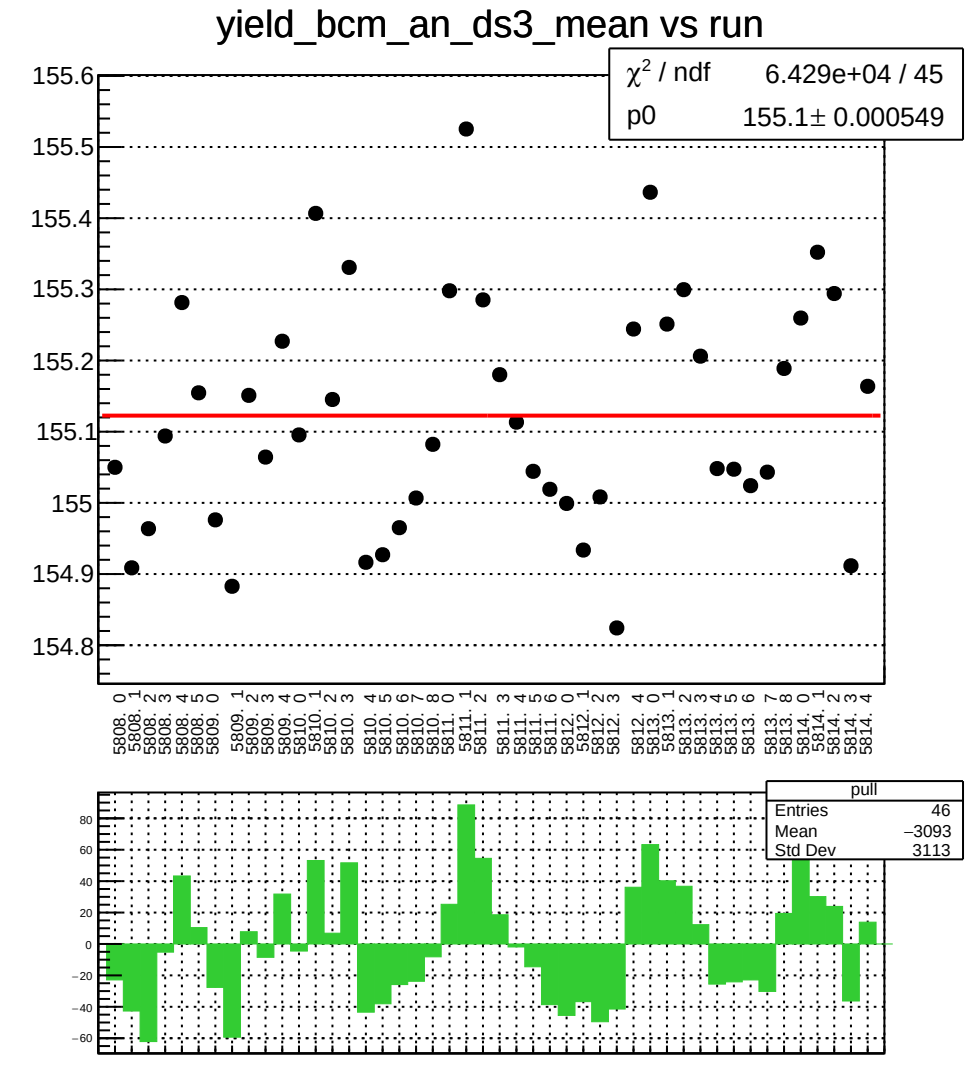

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.573e+04 / 45
p0 125 ± 0.1339
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

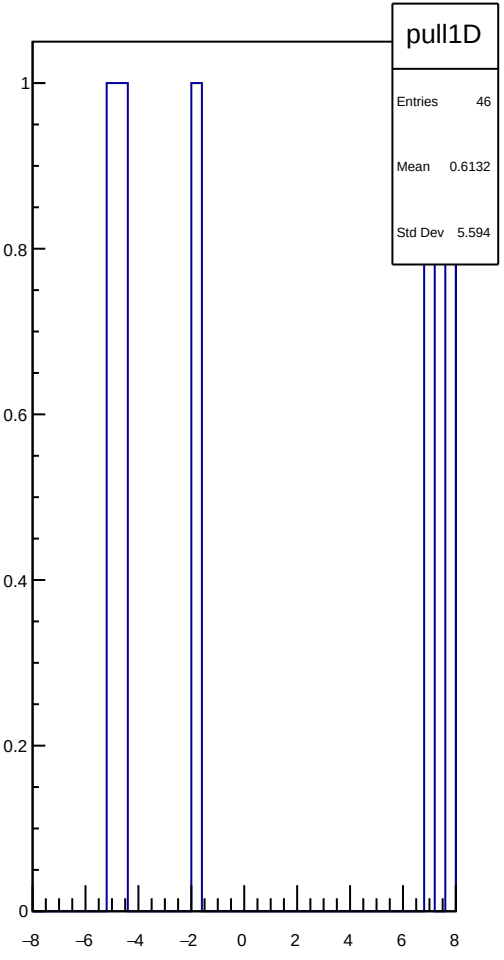

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 37.05 / 45
p0 −141.5 ± 45.31
1000
500
0
−500
−1000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −219.9
Std Dev 244
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.003511
Std Dev 0.8975
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

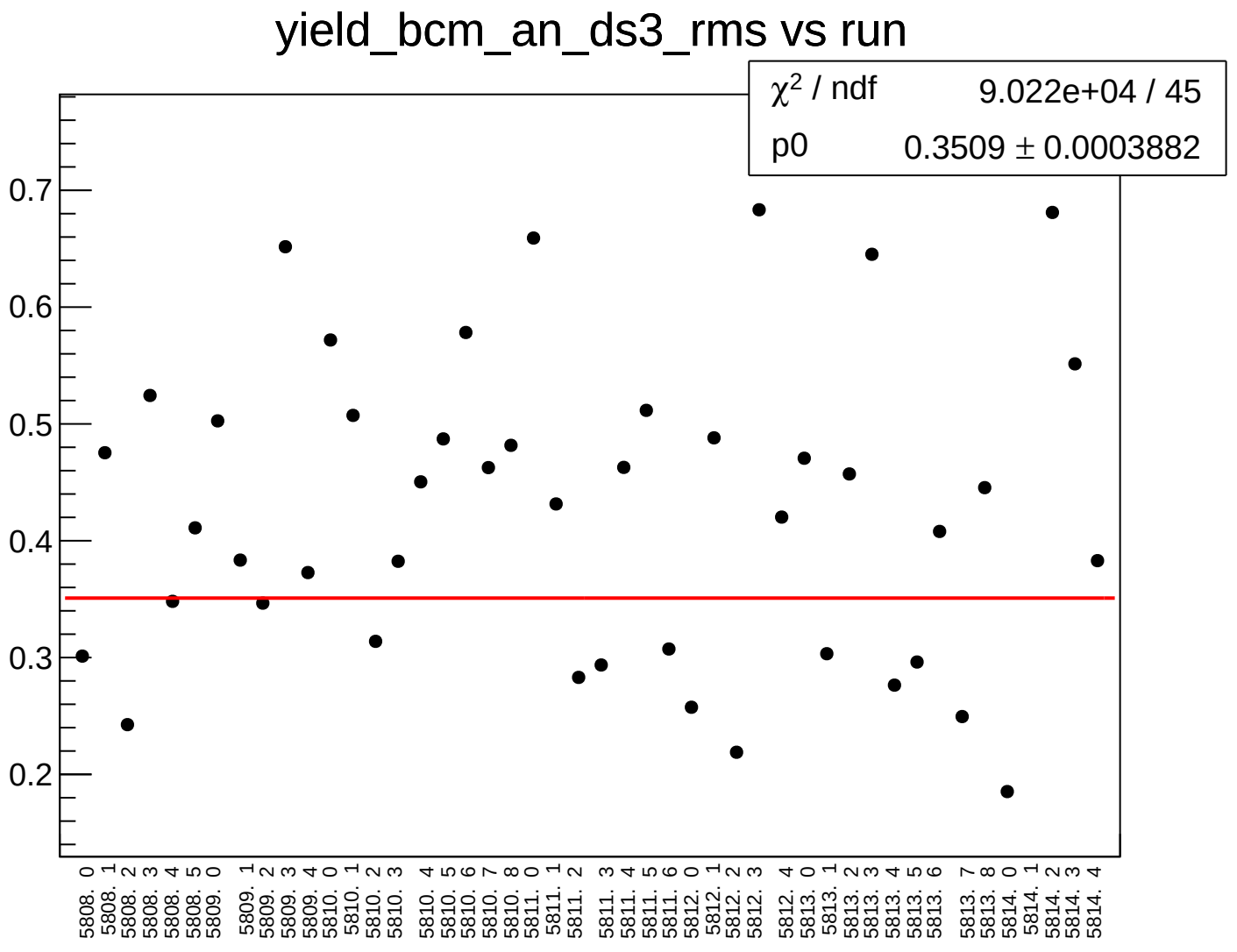

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1278 / 45
p0 30.49 ± 0.03204
34
33
32
31
30
29
28
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

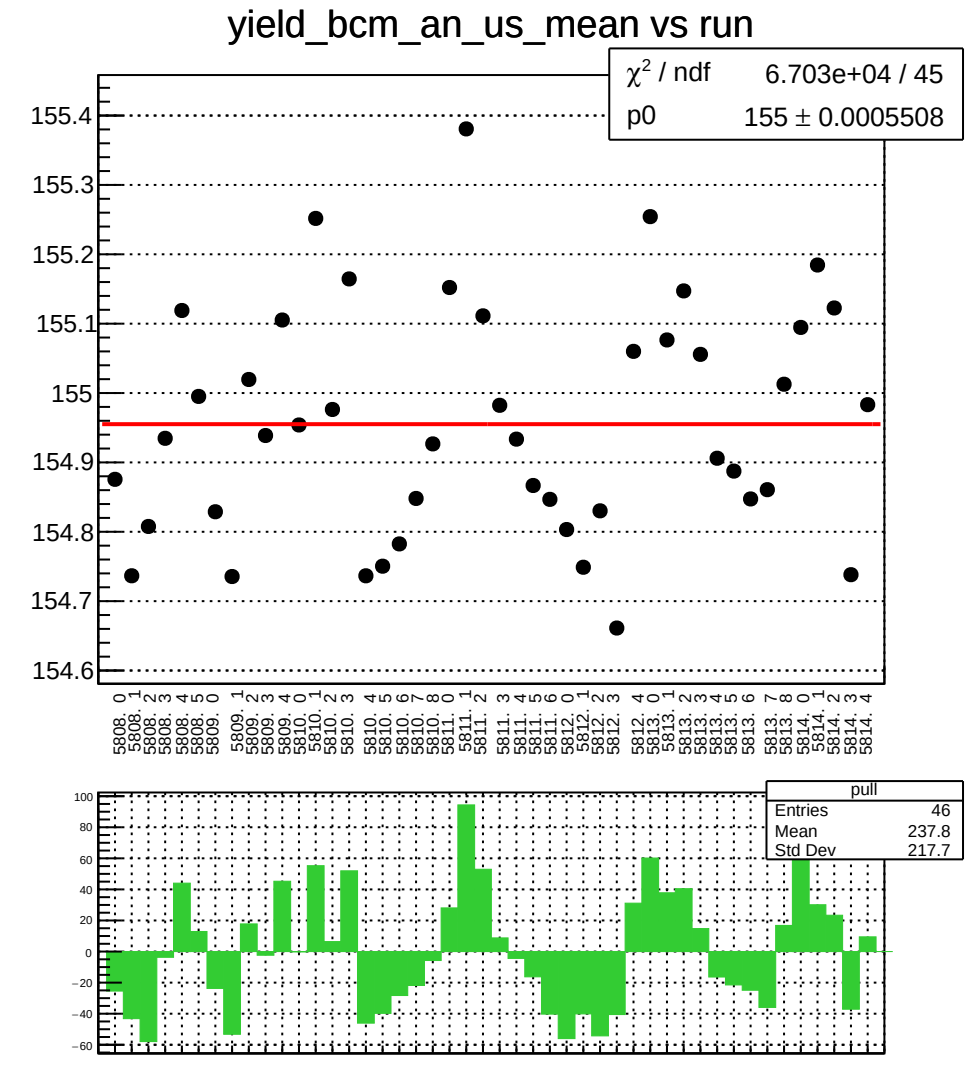

yield_bcm_an_ds_mean vs run
χ² / ndf 6.549e+04 / 45
p0 155 ± 0.0005435
155.4
155.3
155.2
155.1
155
154.9
154.8
154.7
154.6
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −576.1
Std Dev 596.3
80
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean 0.009158
Std Dev 5.015
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

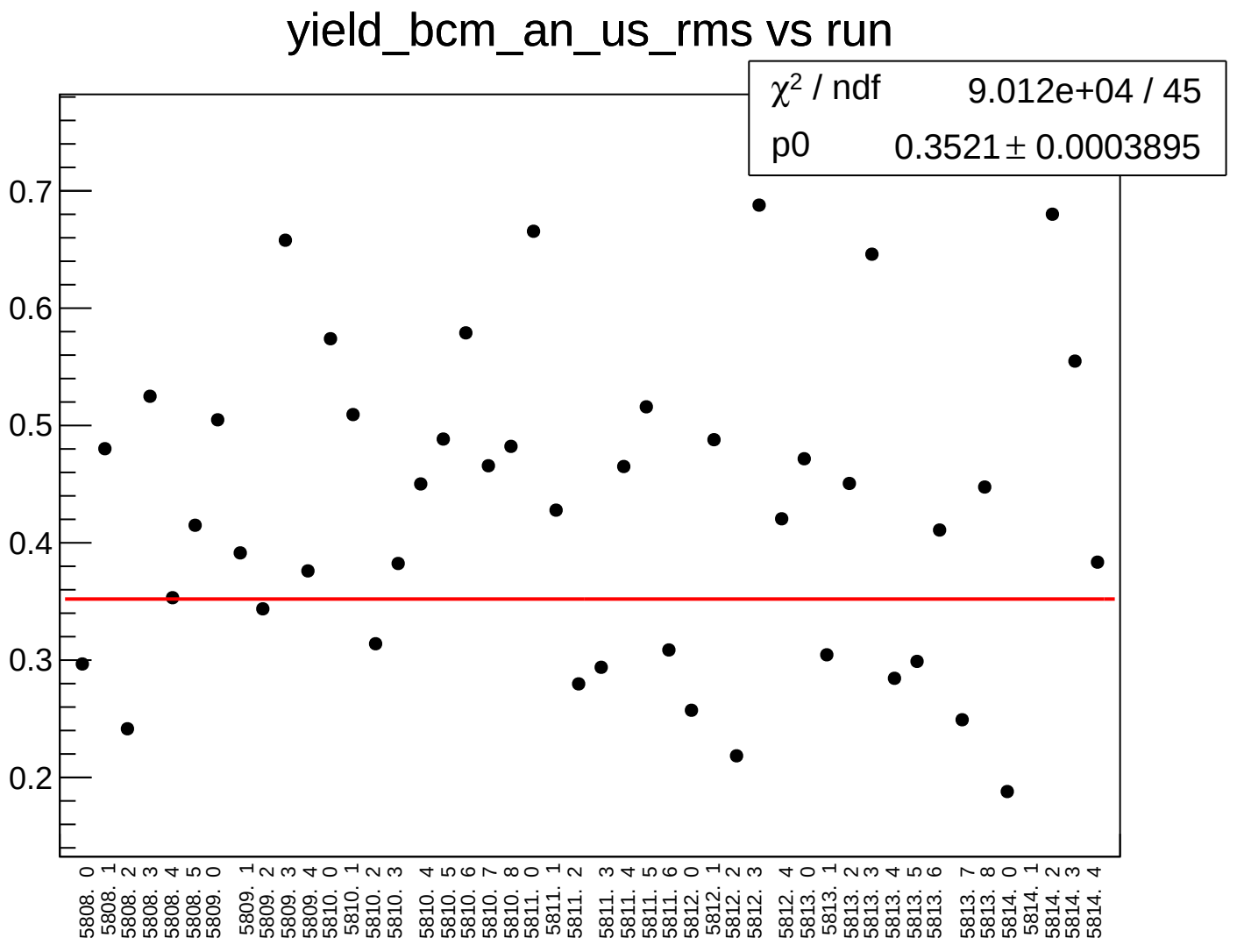

yield_bcm_an_ds_rms vs run
χ² / ndf 9.042e+04 / 45
p0 0.3473 ± 0.0003843
0.7
0.6
0.5
0.4
0.3
0.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

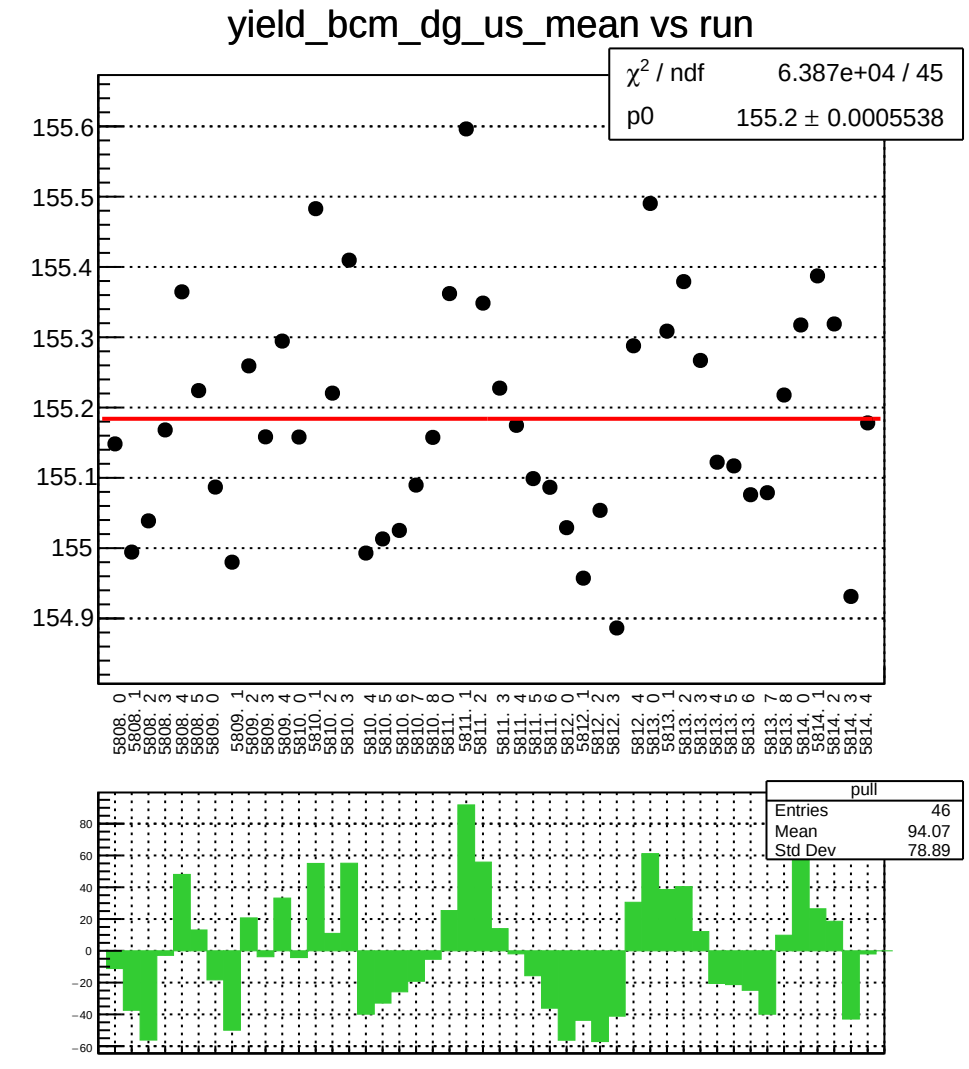

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.429e+04 / 45
p0 155.1± 0.000549
155.6
155.5
155.4
155.3
155.2
155.1
155
154.9
154.8
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −3093
Std Dev 3113
80
60
40
20
0
−20
−40
−60

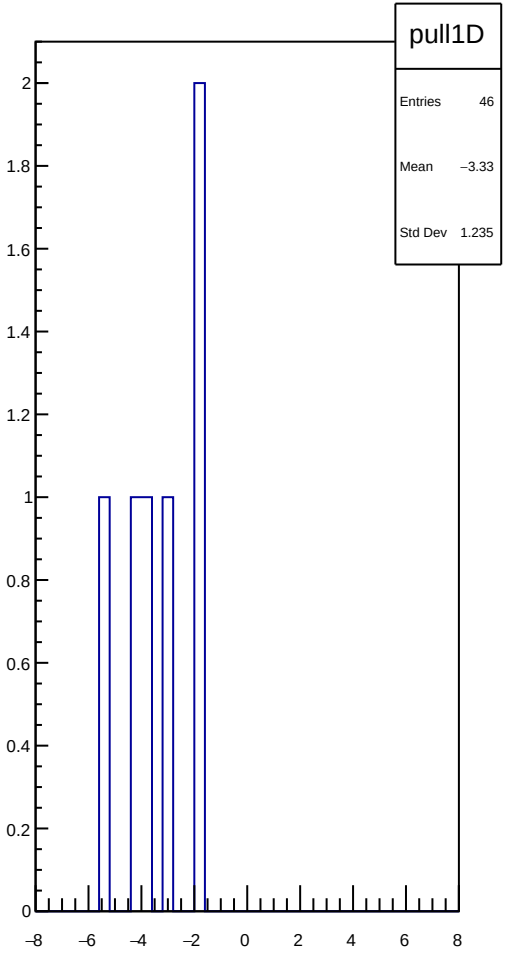

pull1D
Entries 46
Mean 0.6132
Std Dev 5.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

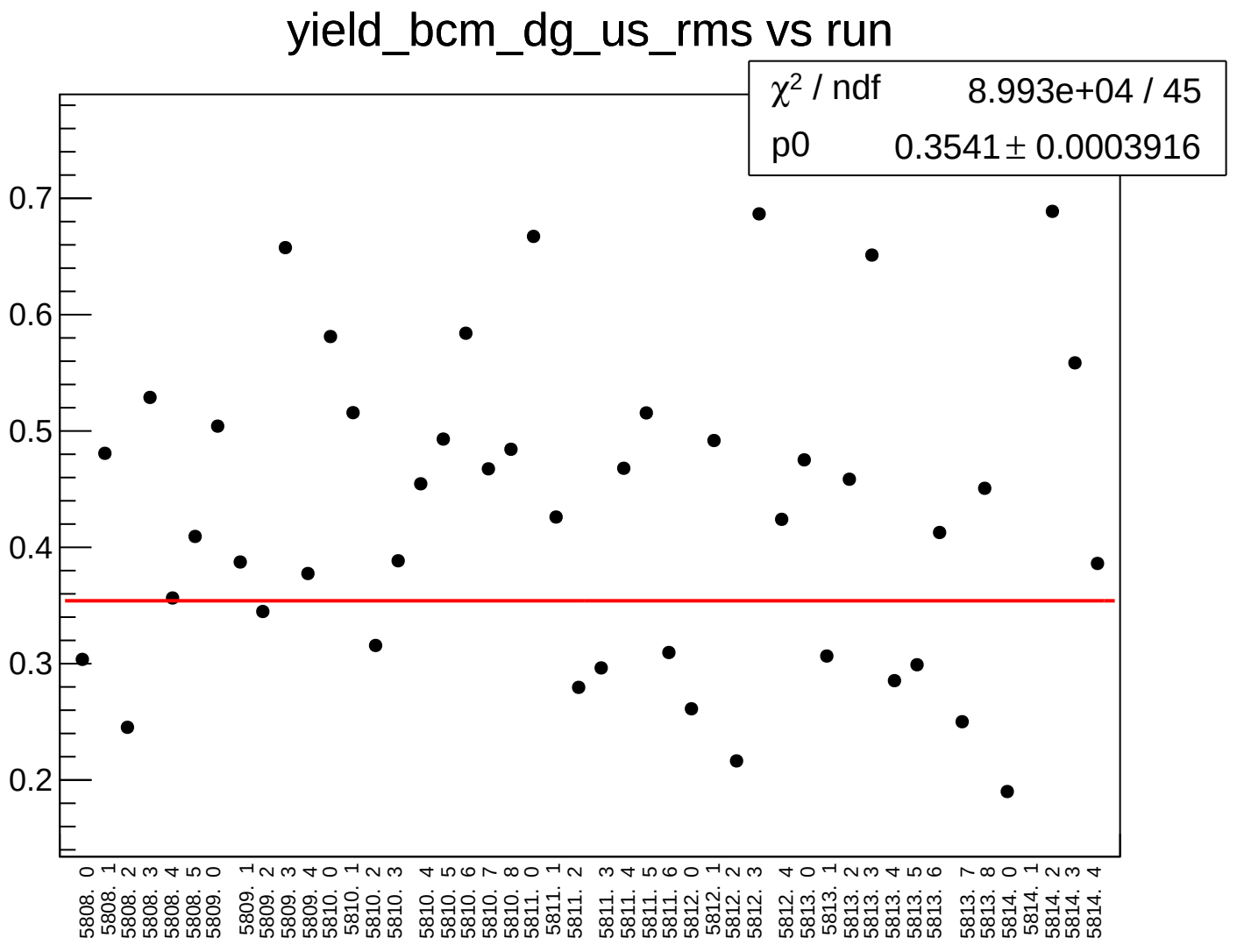

yield_bcm_an_ds3_rms vs run
χ² / ndf 9.022e+04 / 45
p0 0.3509 ± 0.0003882
0.7
0.6
0.5
0.4
0.3
0.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

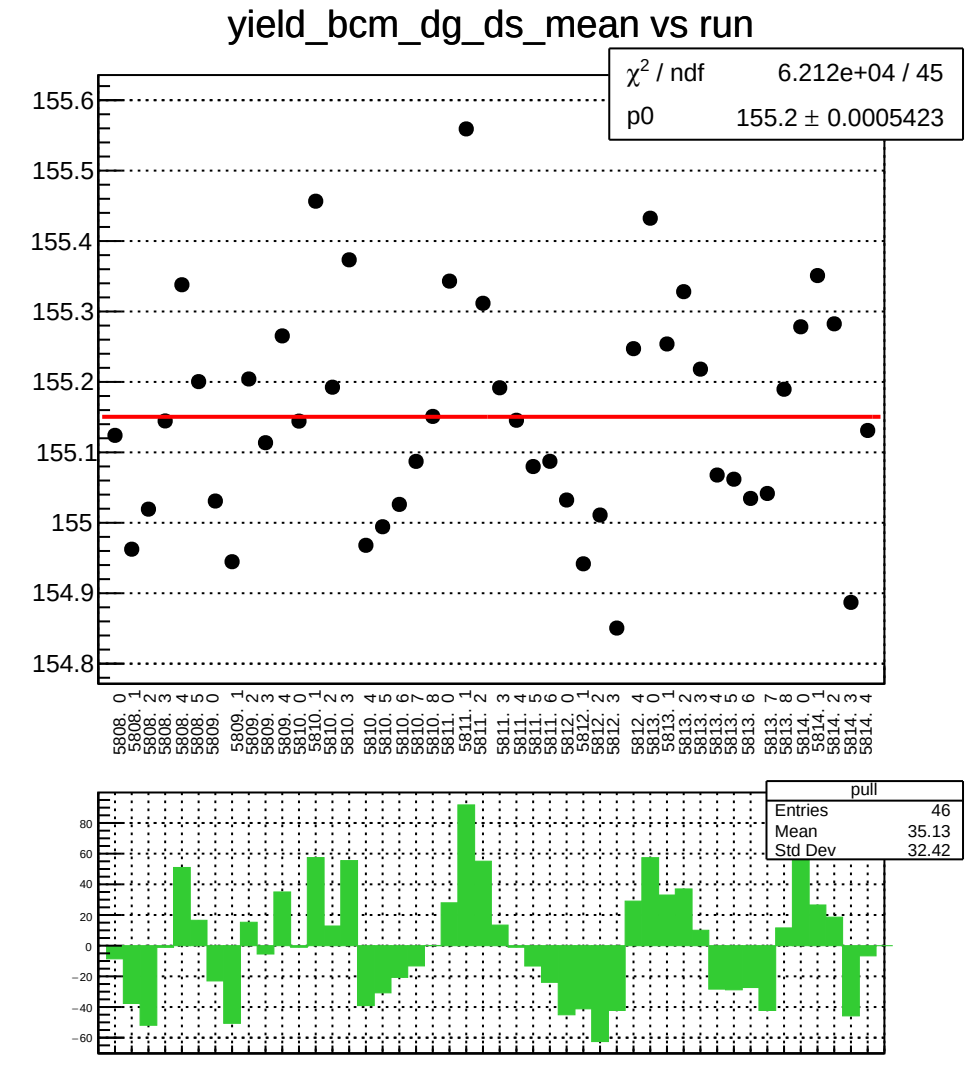

yield_bcm_an_us_mean vs run
χ² / ndf 6.703e+04 / 45
p0 155 ± 0.0005508
155.4
155.3
155.2
155.1
155
154.9
154.8
154.7
154.6
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 237.8
Std Dev 217.7
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −1.664
Std Dev 4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

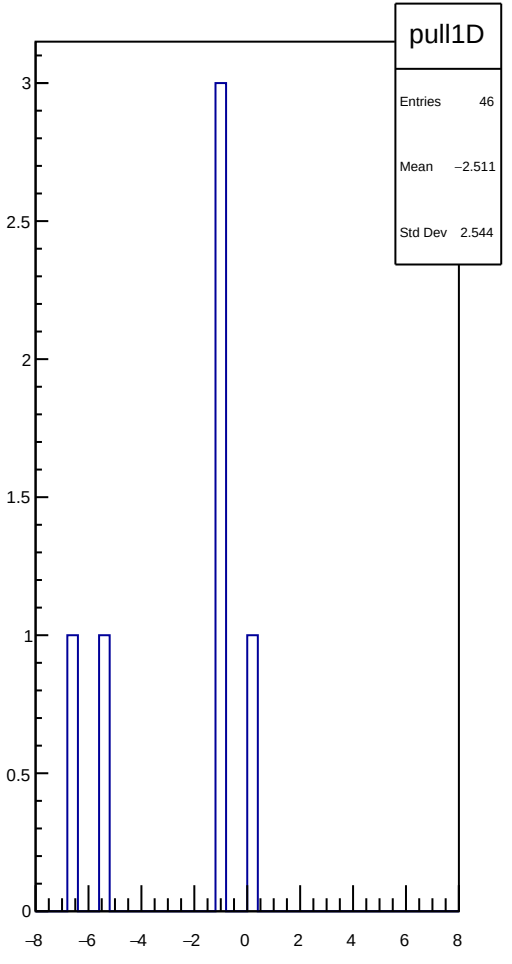

yield_bcm_an_us_rms vs run
χ² / ndf 9.012e+04 / 45
p0 0.3521 ± 0.0003895
0.7
0.6
0.5
0.4
0.3
0.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

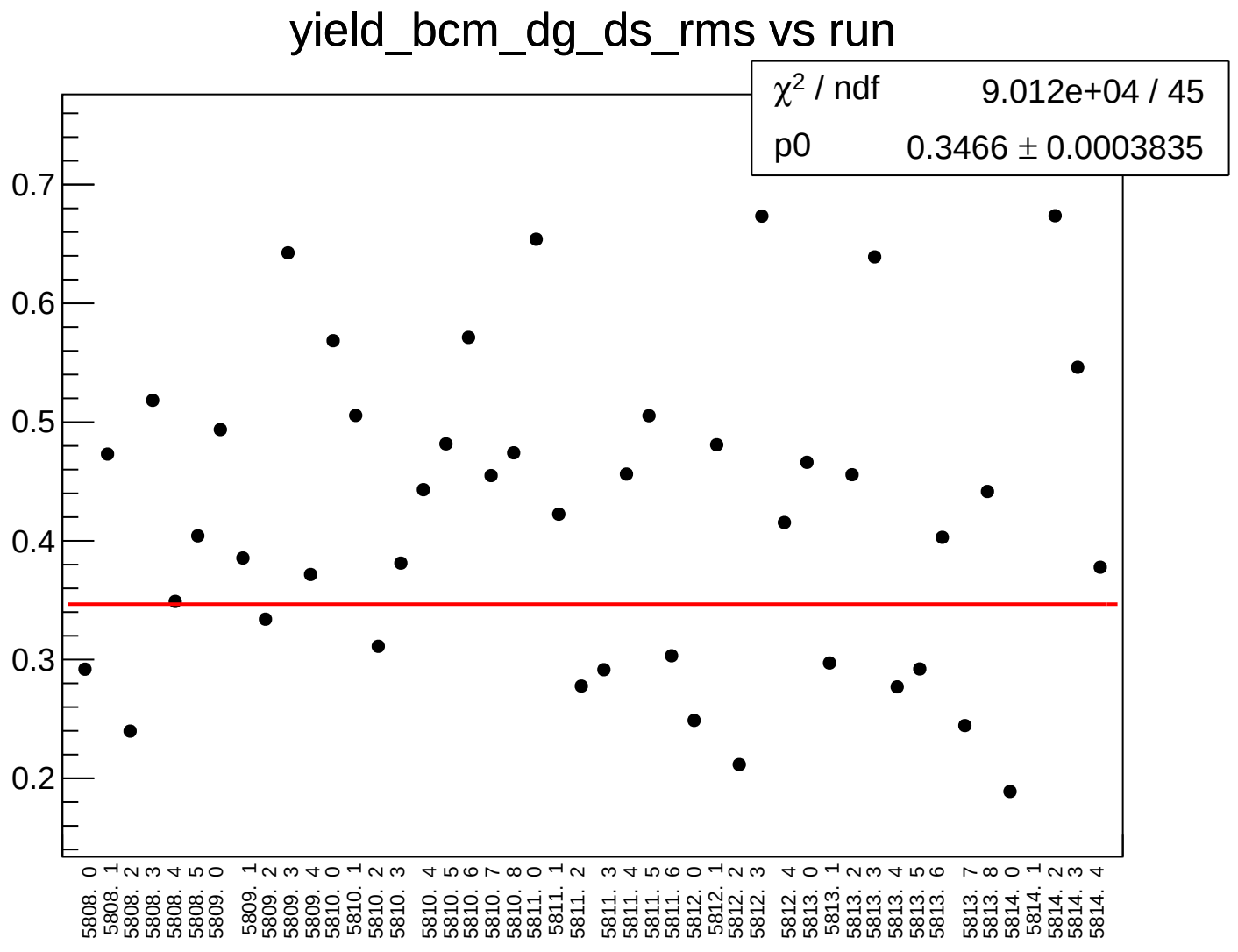

yield_bcm_dg_us_mean vs run
χ² / ndf 6.387e+04 / 45
p0 155.2 ± 0.0005538
155.6
155.5
155.4
155.3
155.2
155.1
155
154.9
pull
Entries 46
Mean 94.07
Std Dev 78.89
80
60
40
20
0
−20
−40
−60

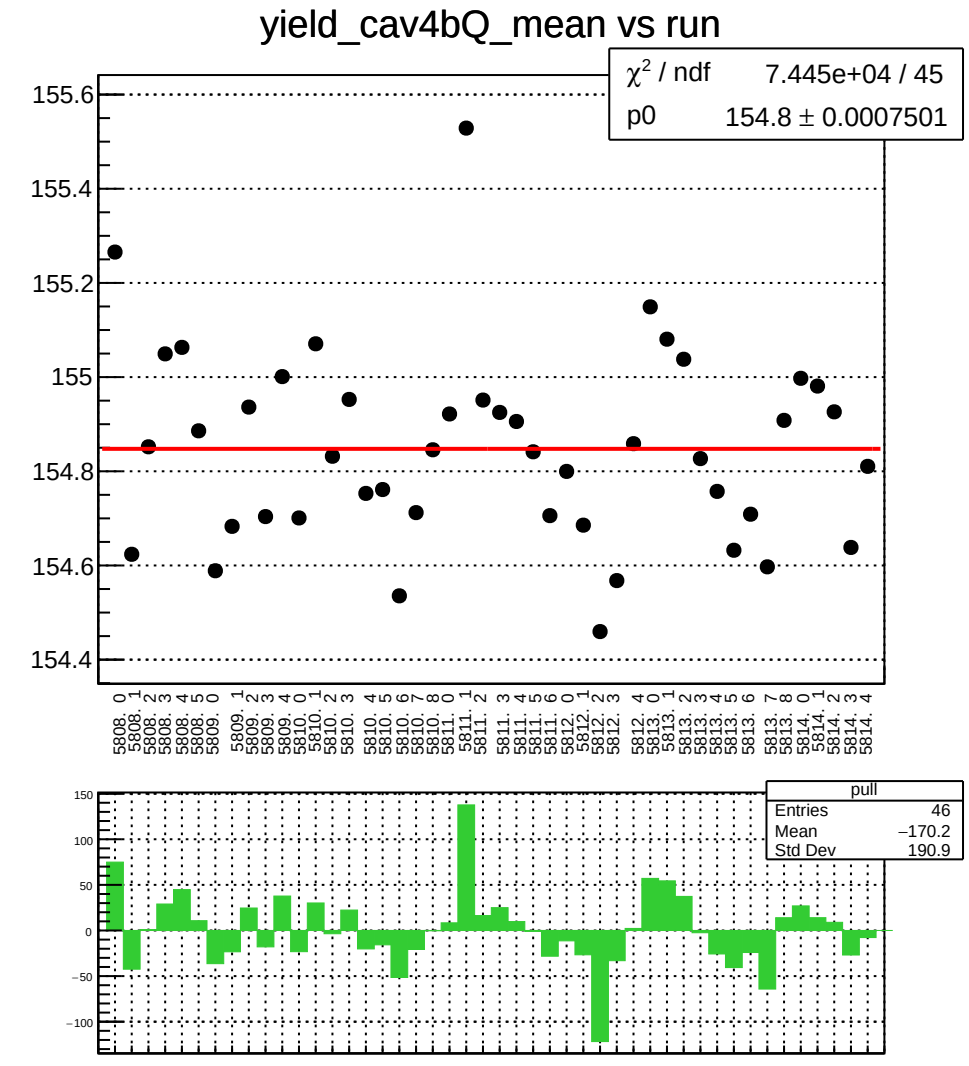

pull1D
Entries 46
Mean −3.33
Std Dev 1.235
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

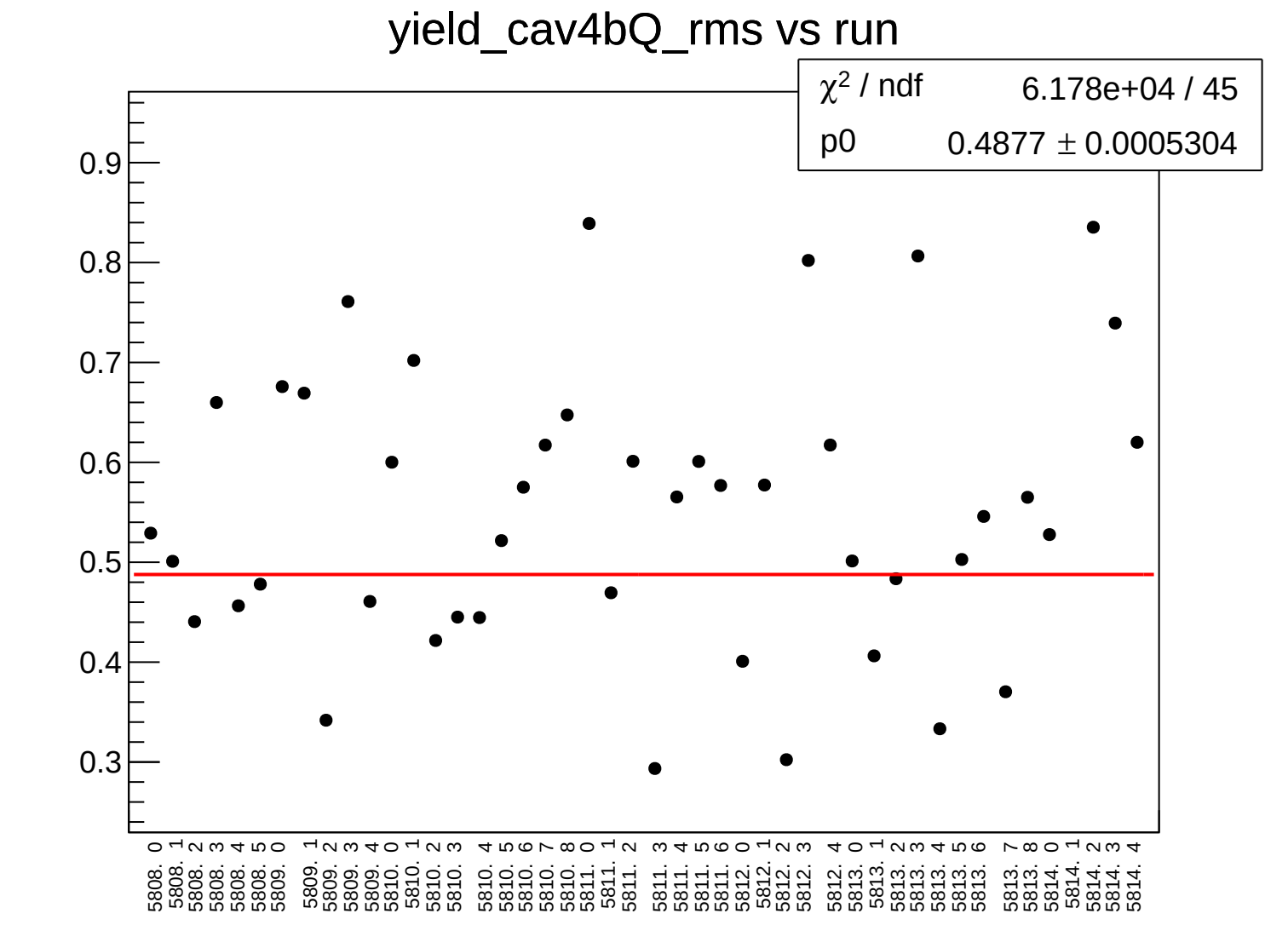

yield_bcm_dg_us_rms vs run
χ² / ndf 8.993e+04 / 45
p0 0.3541 ± 0.0003916
0.7
0.6
0.5
0.4
0.3
0.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

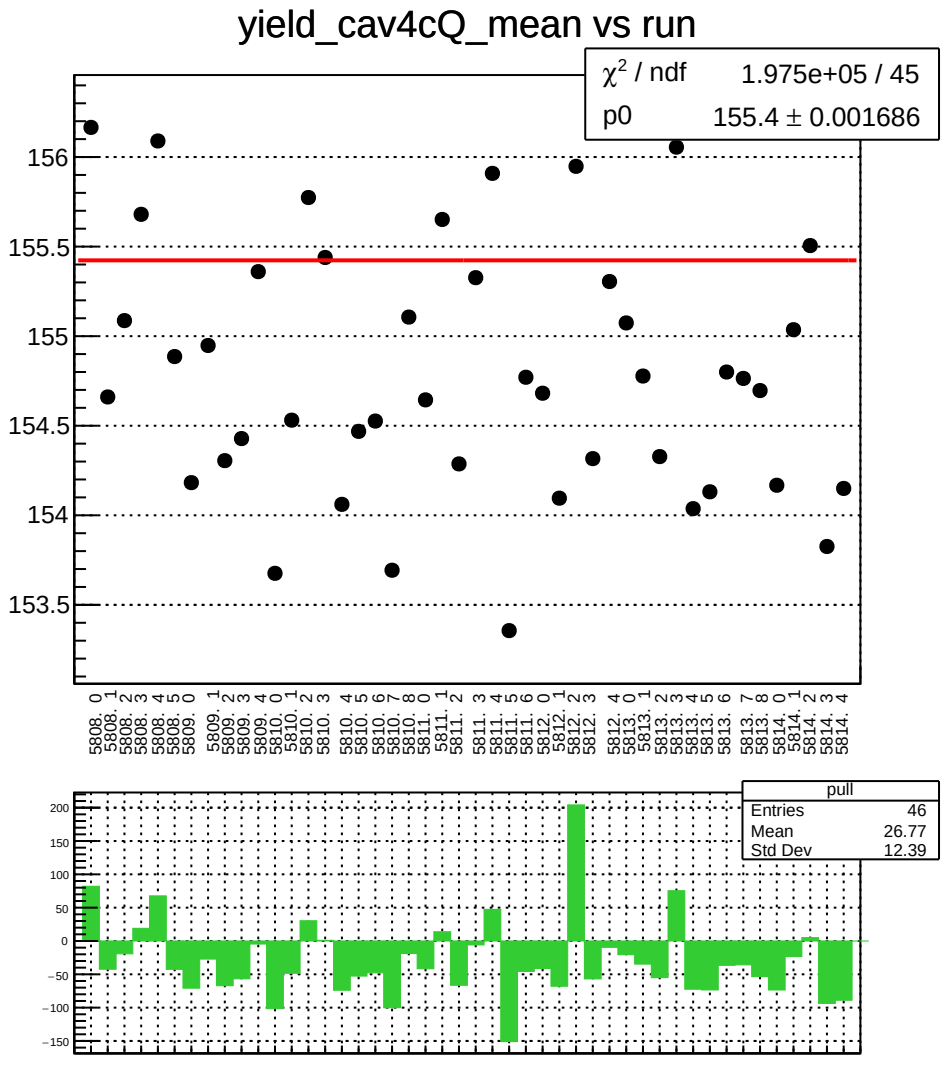

yield_bcm_dg_ds_mean vs run
χ² / ndf 6.212e+04 / 45
p0 155.2 ± 0.0005423
155.6
155.5
155.4
155.3
155.2
155.1
155
154.9
154.8
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 35.13
Std Dev 32.42
80
60
40
20
0
−20
−40
−60

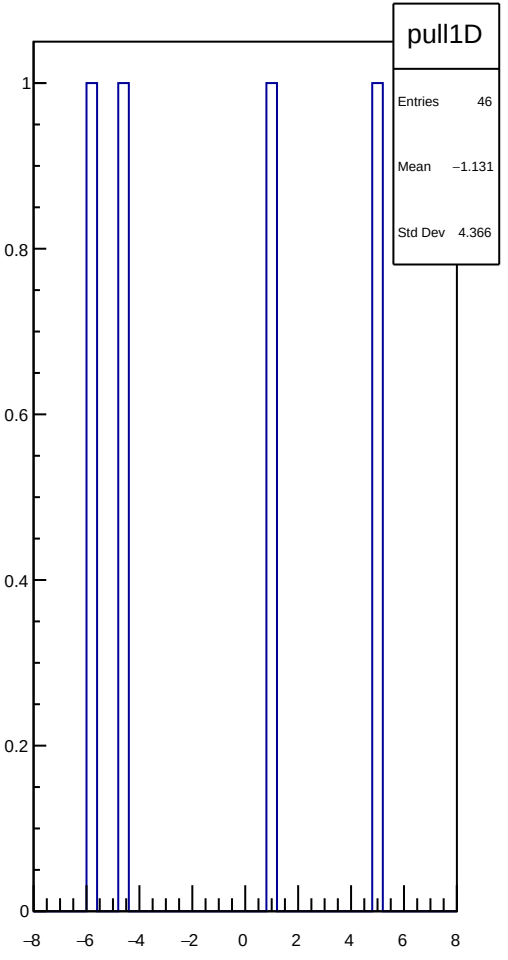

pull1D
Entries 46
Mean −2.511
Std Dev 2.544
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

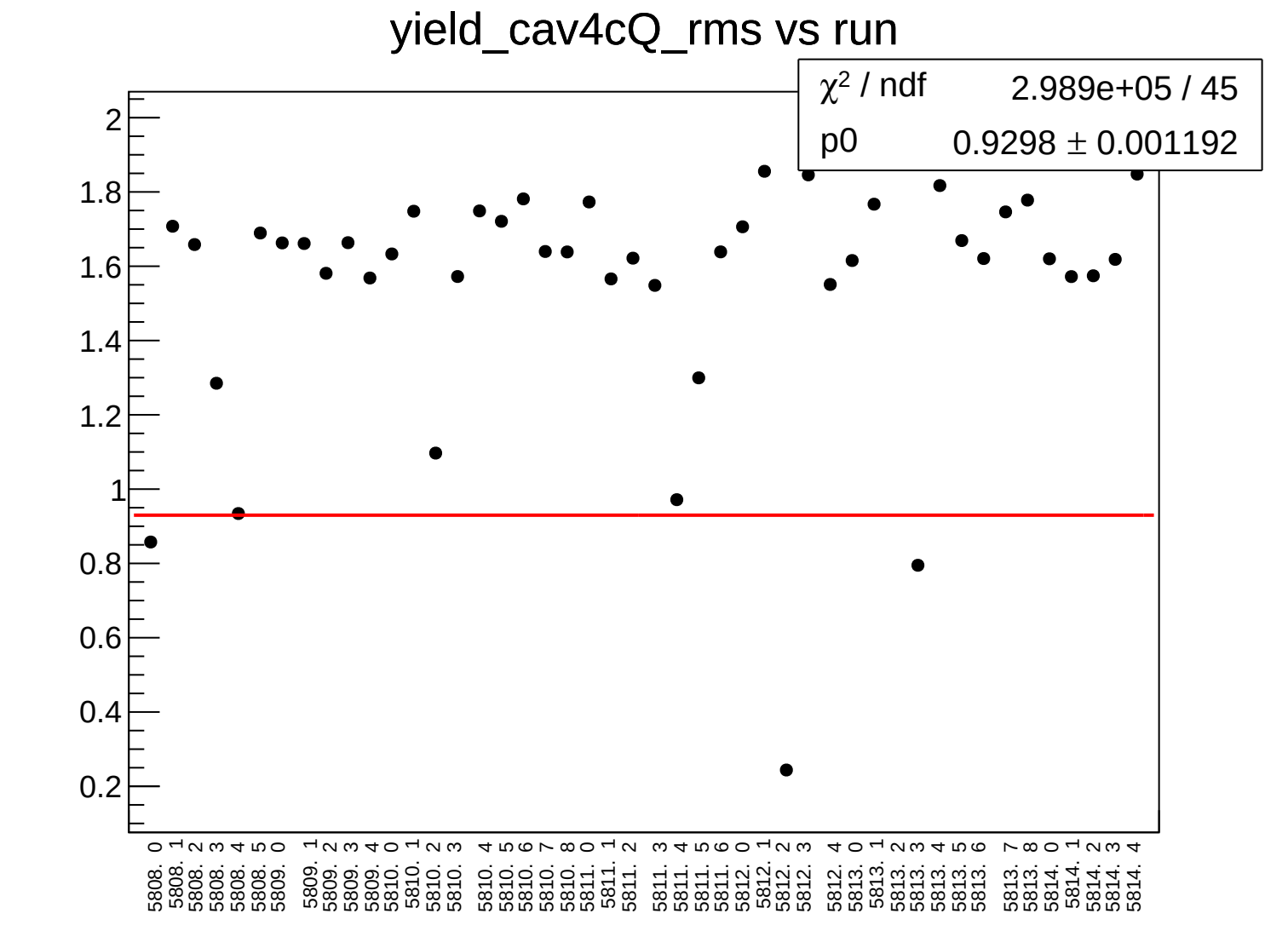

yield_bcm_dg_ds_rms vs run
χ² / ndf 9.012e+04 / 45
p0 0.3466 ± 0.0003835
0.7
0.6
0.5
0.4
0.3
0.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

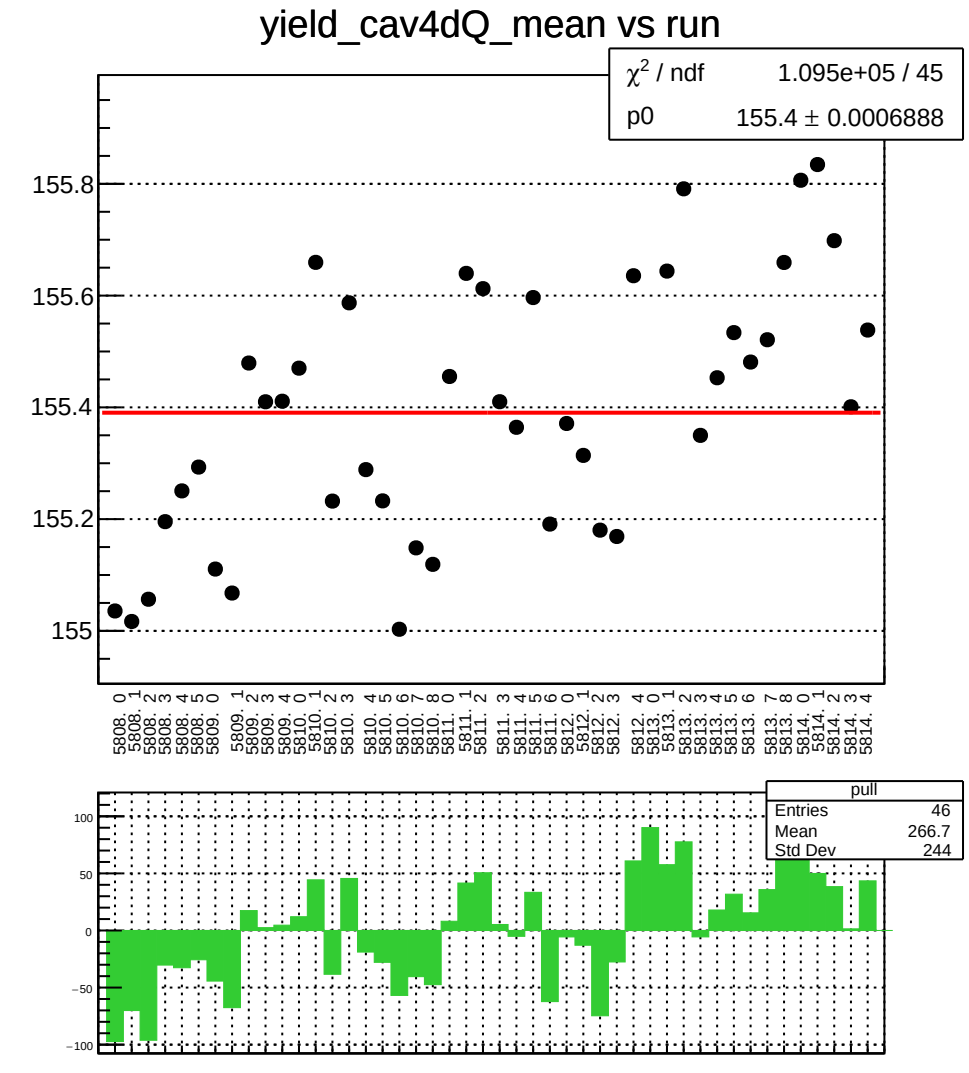

yield_cav4bQ_mean vs run
χ² / ndf 7.445e+04 / 45
p0 154.8 ± 0.0007501
155.6
155.4
155.2
155
154.8
154.6
154.4
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −170.2
Std Dev 190.9
150
100
50
0
−50
−100
pull1D
Entries 46
Mean −1.693
Std Dev 3.053
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

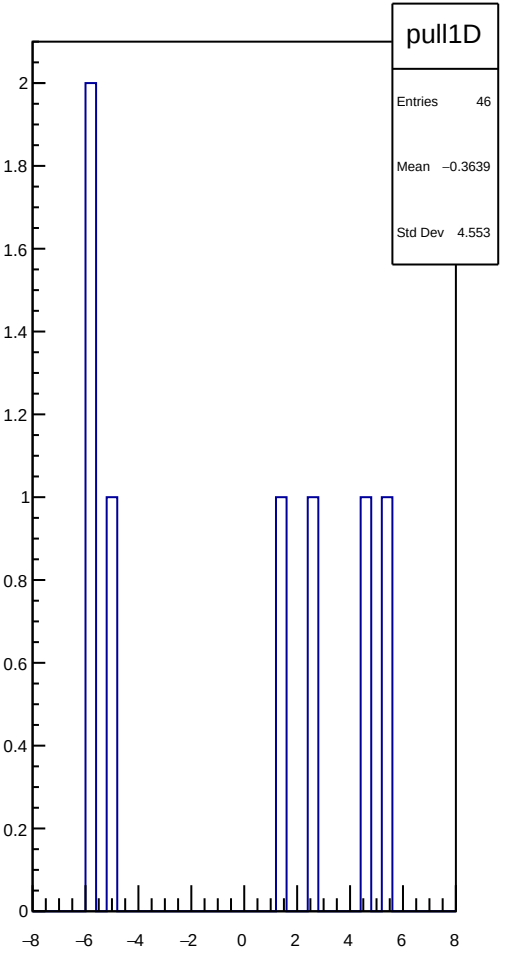

yield_cav4bQ_rms vs run
χ² / ndf 6.178e+04 / 45
p0 0.4877 ± 0.0005304
0.9
0.8
0.7
0.6
0.5
0.4
0.3
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

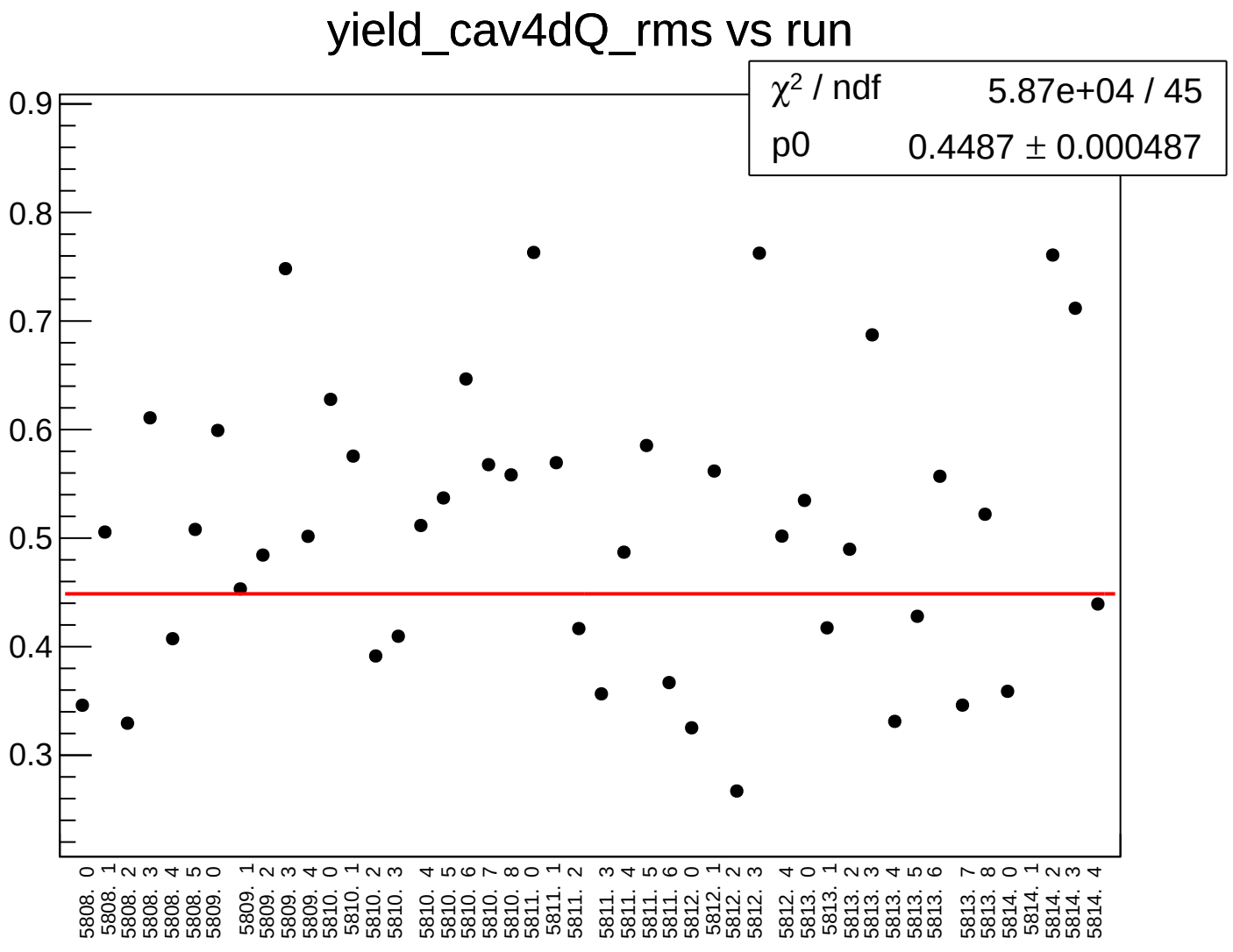

yield_cav4cQ_mean vs run
χ² / ndf 1.975e+05 / 45
p0 155.4 ± 0.001686
156
155.5
155
154.5
154
153.5
pull
Entries 46
Mean 26.77
Std Dev 12.39
200
150
100
50
0
−50
−100
−150

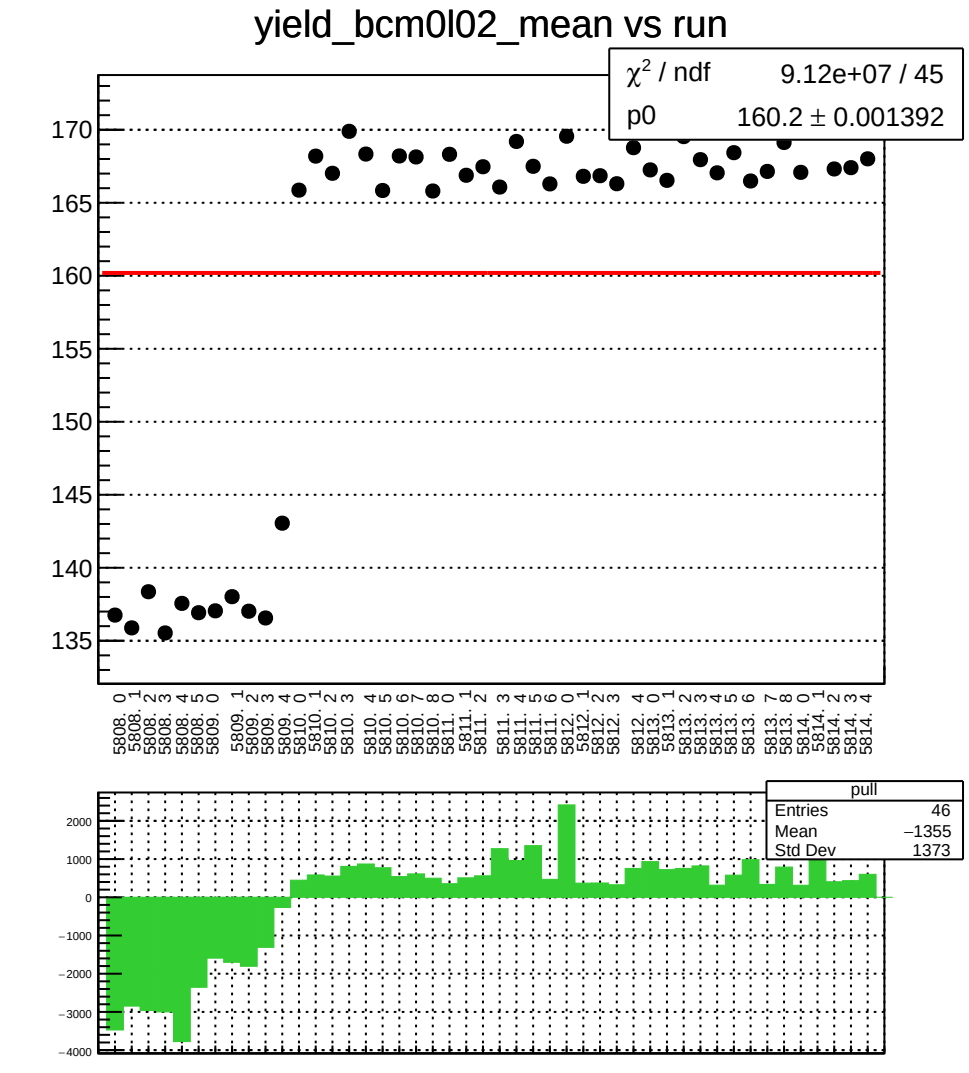

pull1D
Entries 46
Mean −1.131
Std Dev 4.366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

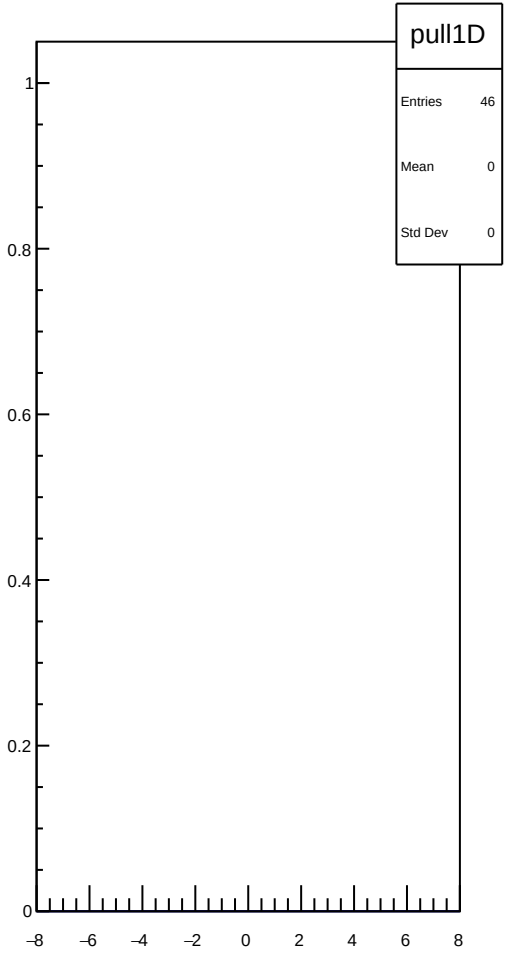

yield_cav4cQ_rms vs run
χ² / ndf 2.989e+05 / 45
p0 0.9298 ± 0.001192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

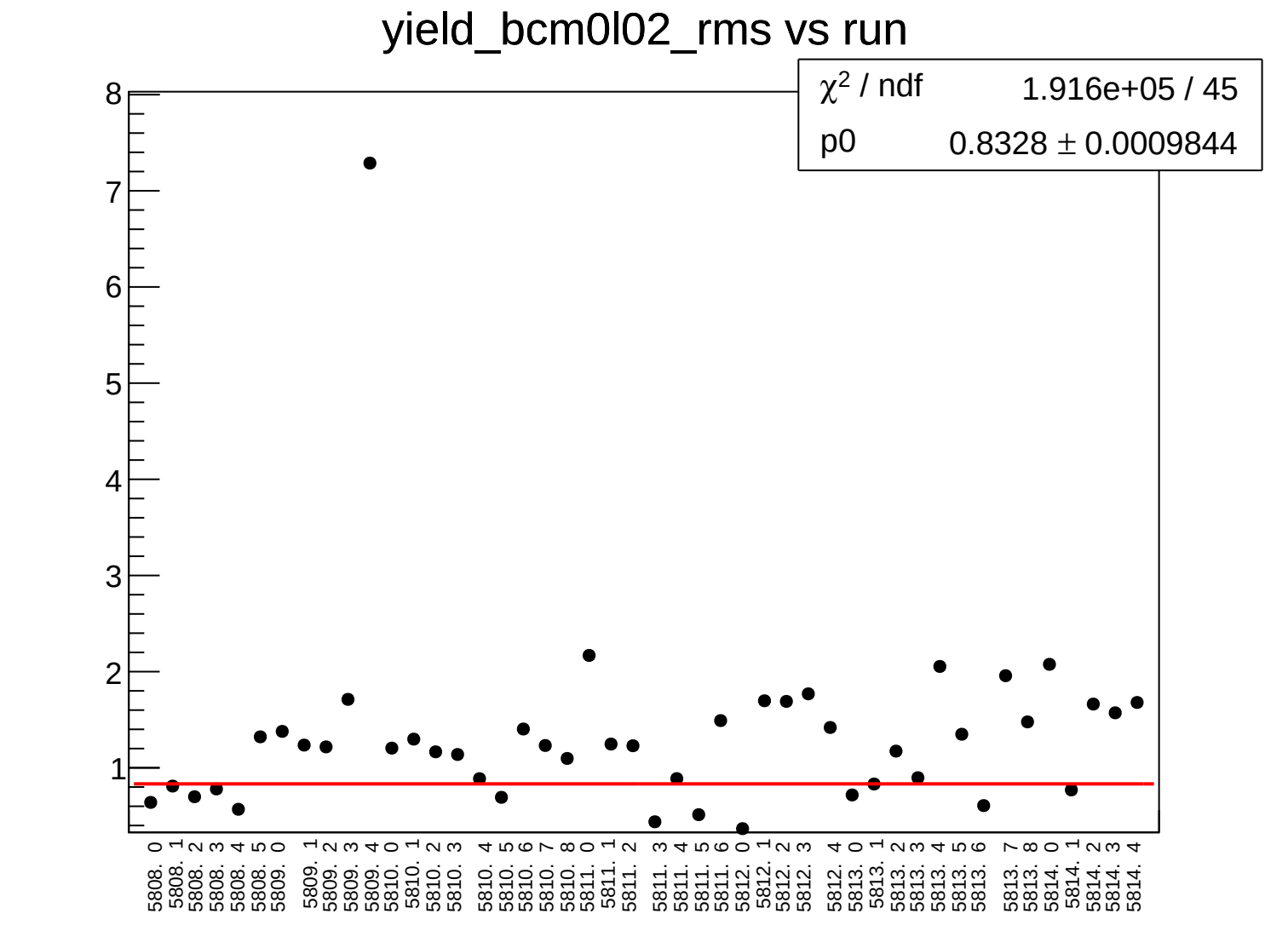

yield_cav4dQ_mean vs run
χ² / ndf 1.095e+05 / 45
p0 155.4 ± 0.0006888
155.8
155.6
155.4
155.2
155
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 266.7
Std Dev 244
100
50
0
−50
−100

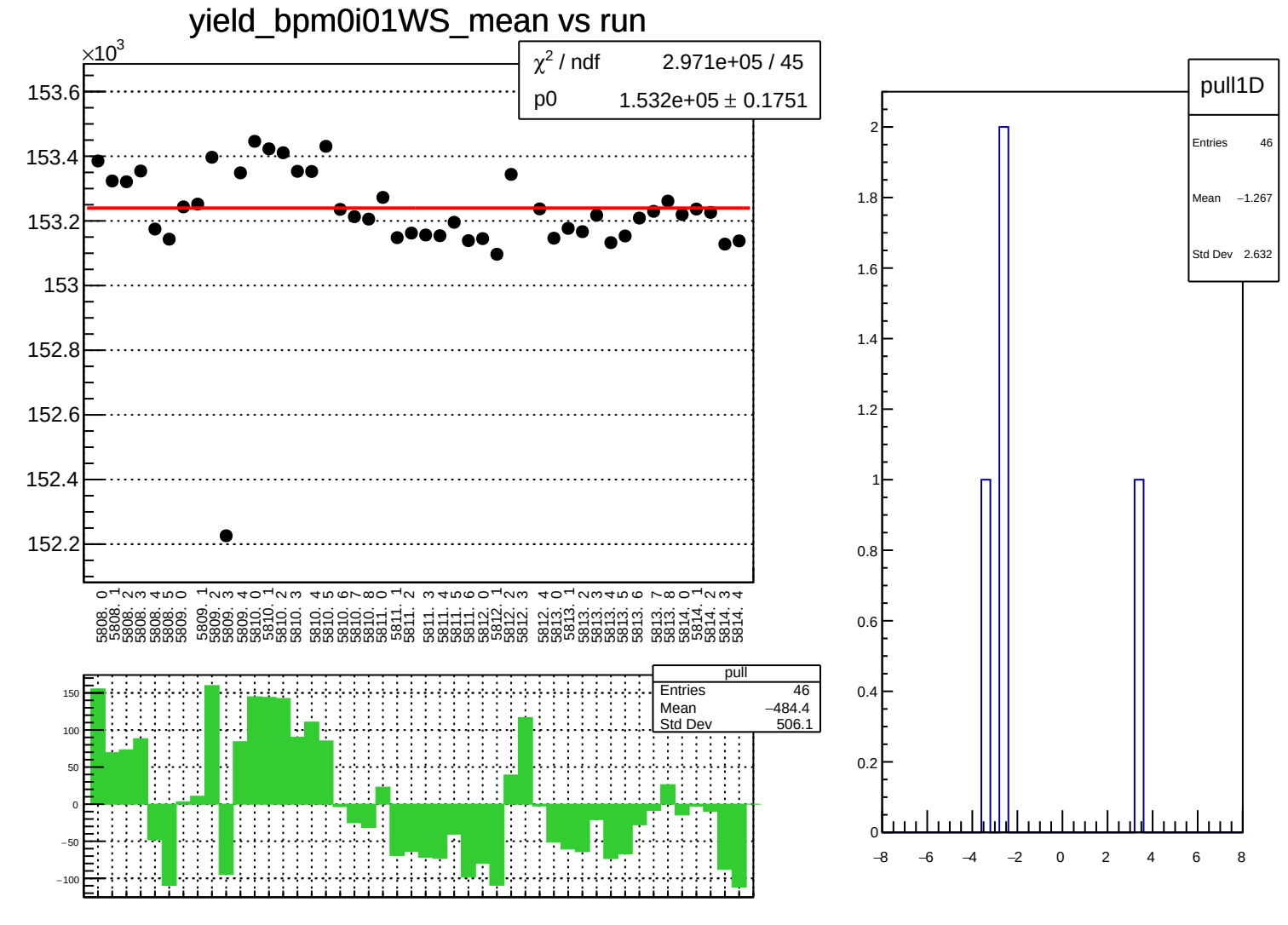

pull1D
Entries 46
Mean −0.3639
Std Dev 4.553
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

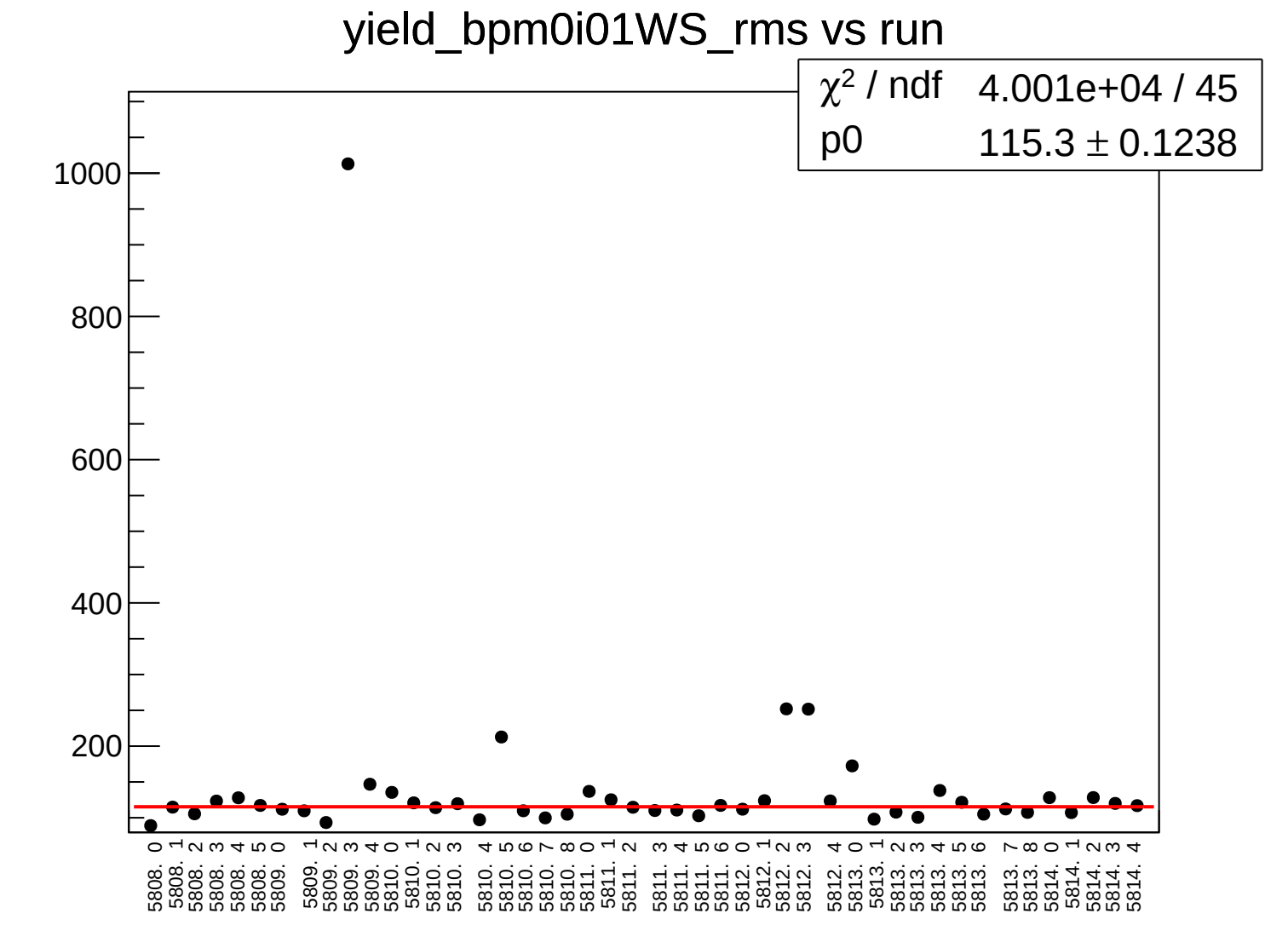

yield_cav4dQ_rms vs run
χ² / ndf 5.87e+04 / 45
p0 0.4487 ± 0.000487
0.9
0.8
0.7
0.6
0.5
0.4
0.3
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

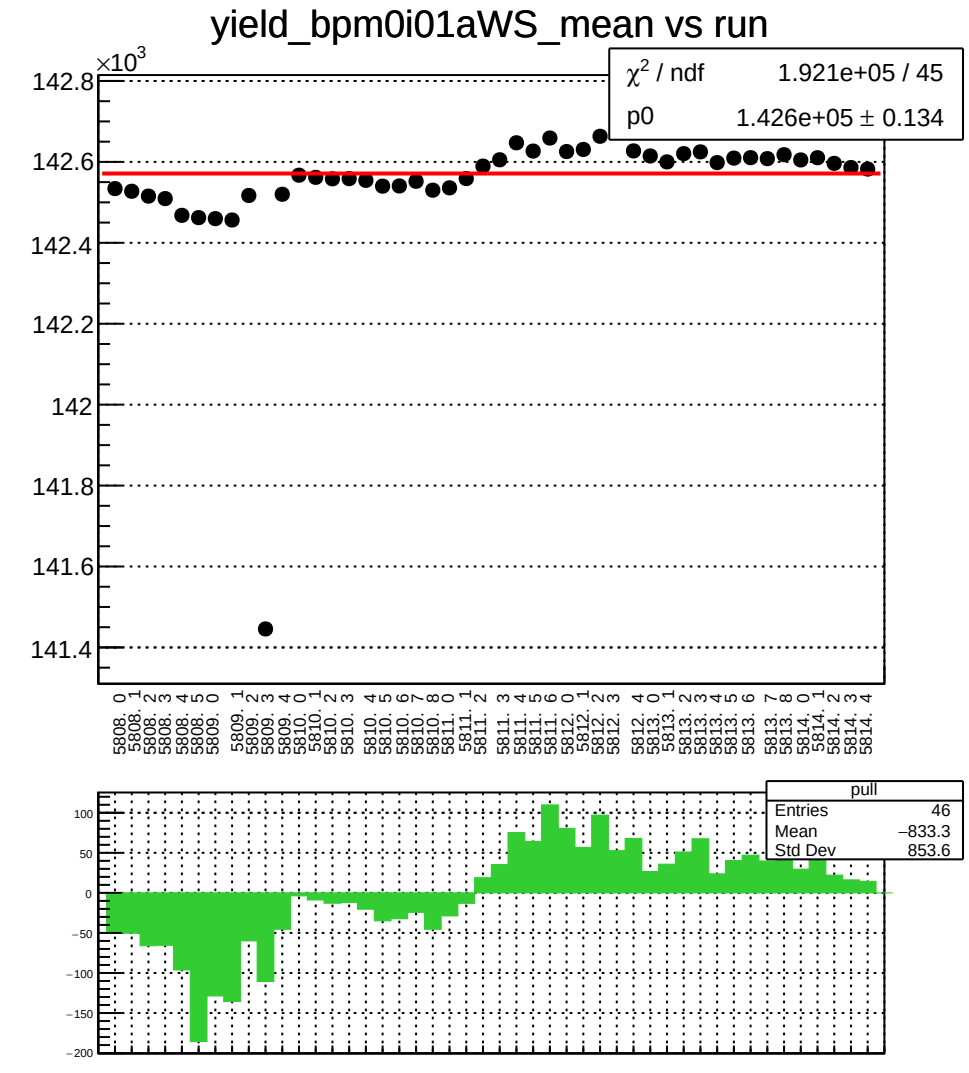

yield_bcm0l02_mean vs run
χ² / ndf 9.12e+07 / 45
p0 160.2 ± 0.001392
170
165
160
155
150
145
140
135
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1355
Std Dev 1373
2000
1000
0
−1000
−2000
−3000
−4000

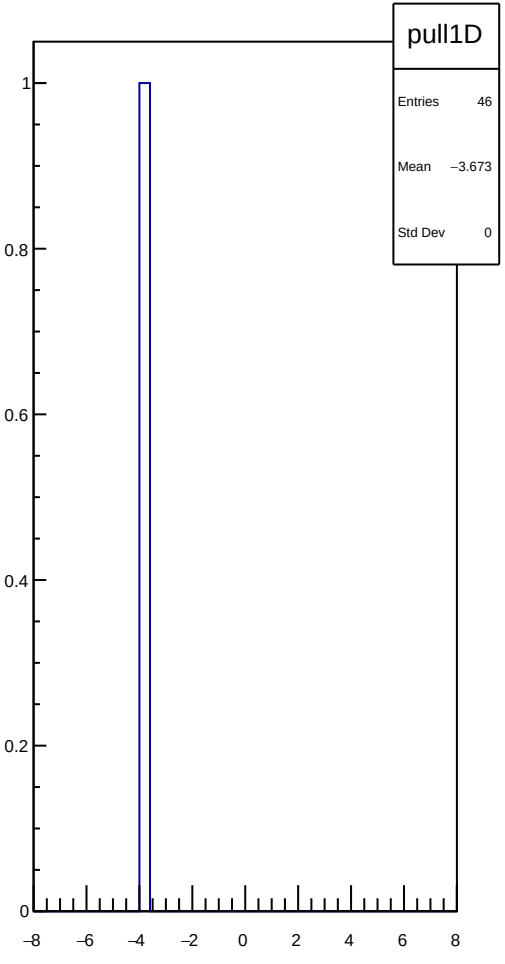

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

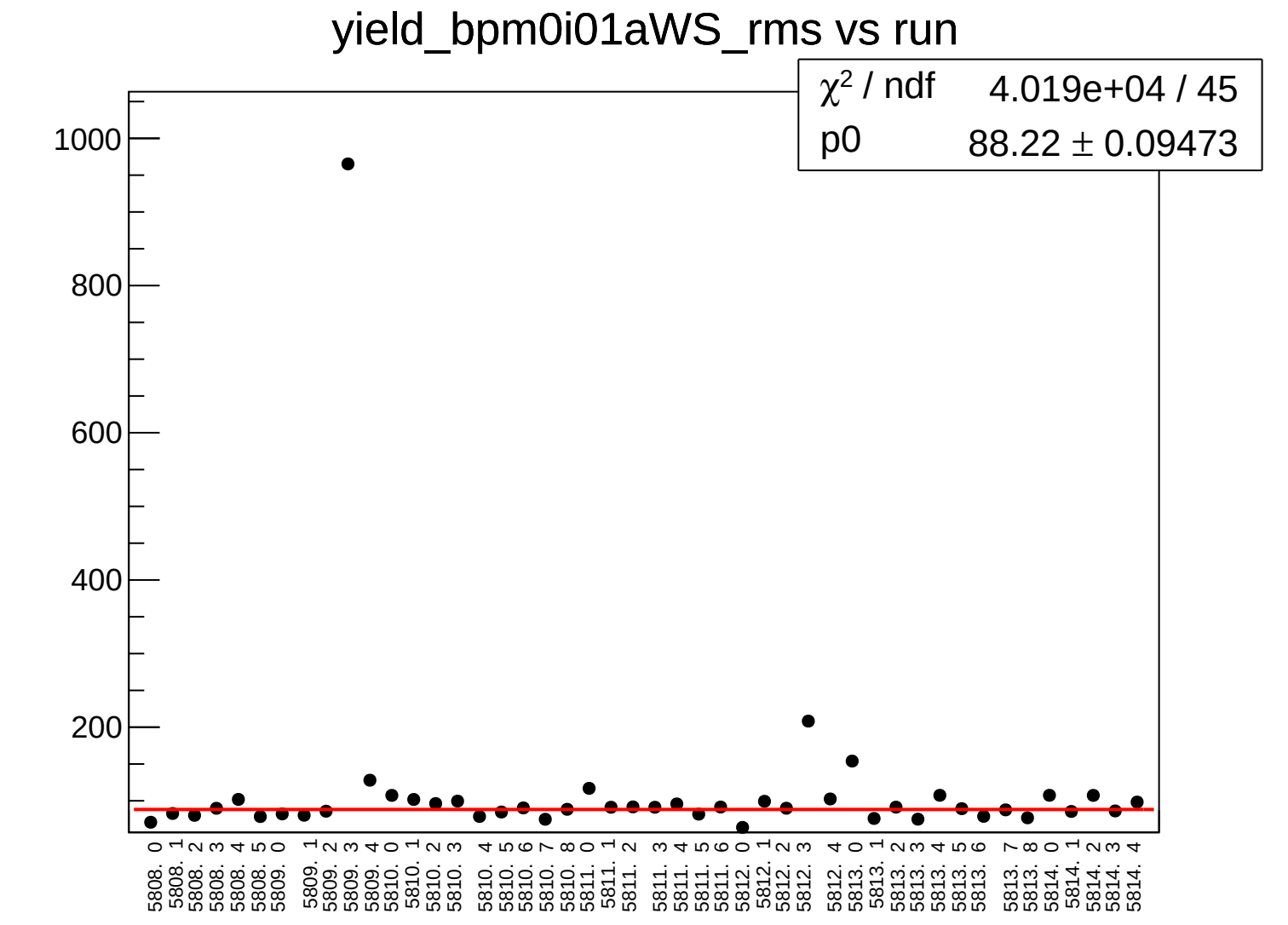

yield_bcm0l02_rms vs run
χ² / ndf 1.916e+05 / 45
p0 0.8328 ± 0.0009844
8
7
6
5
4
3
2
1
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

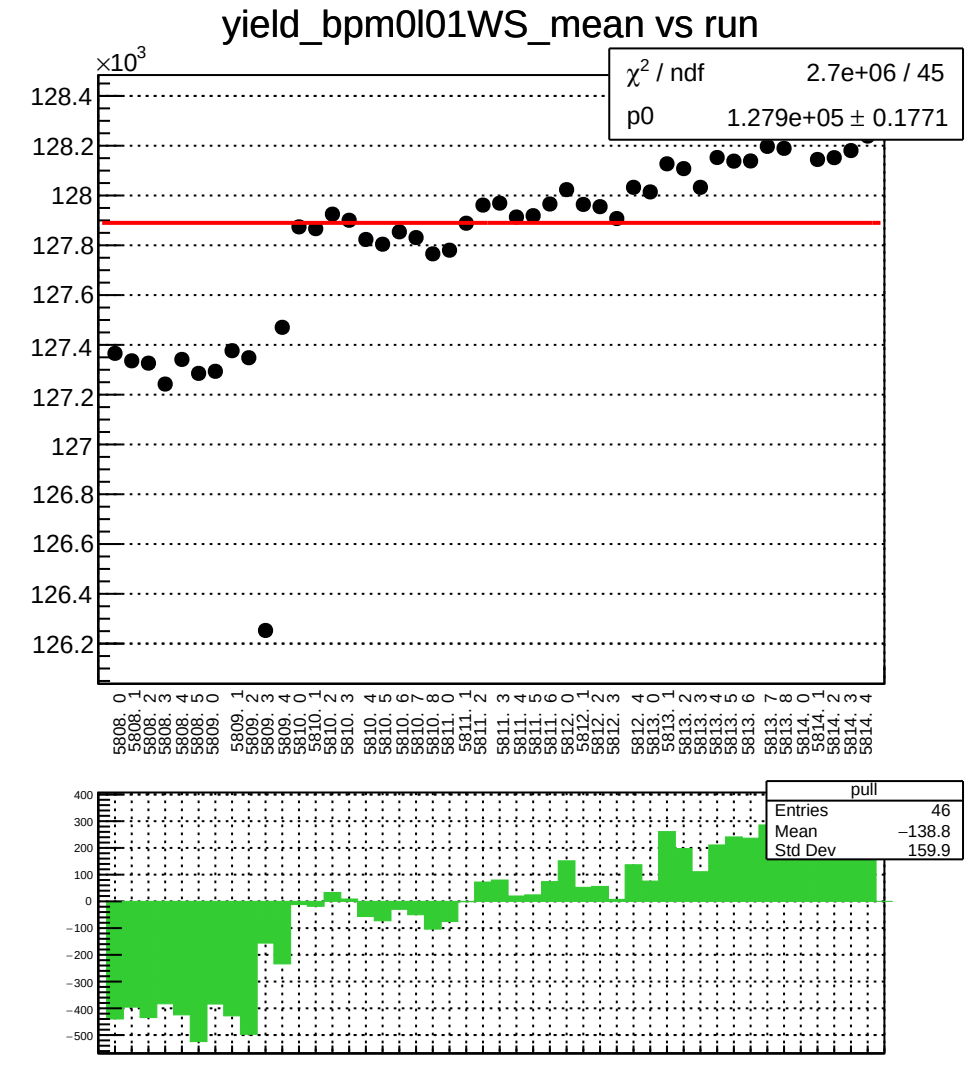

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.971e+05 / 45
p0 1.532e+05 ± 0.1751
153.6
153.4
153.2
153
152.8
152.6
152.4
152.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −484.4
Std Dev 506.1
150
100
50
0
−50
−100
pull1D
Entries 46
Mean −1.267
Std Dev 2.632
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

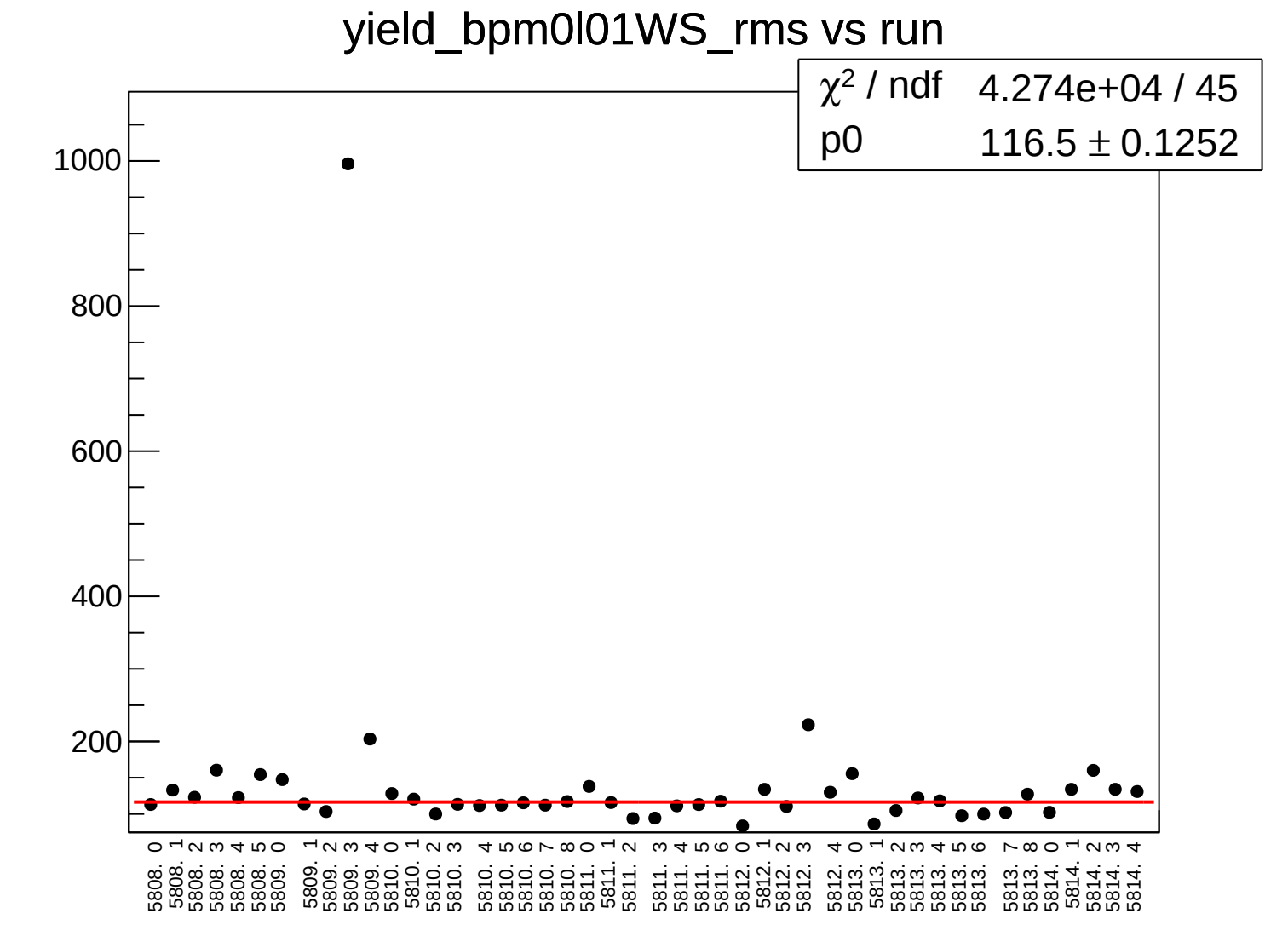

yield_bpm0i01WS_rms vs run
χ² / ndf 4.001e+04 / 45
p0 115.3 ± 0.1238
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

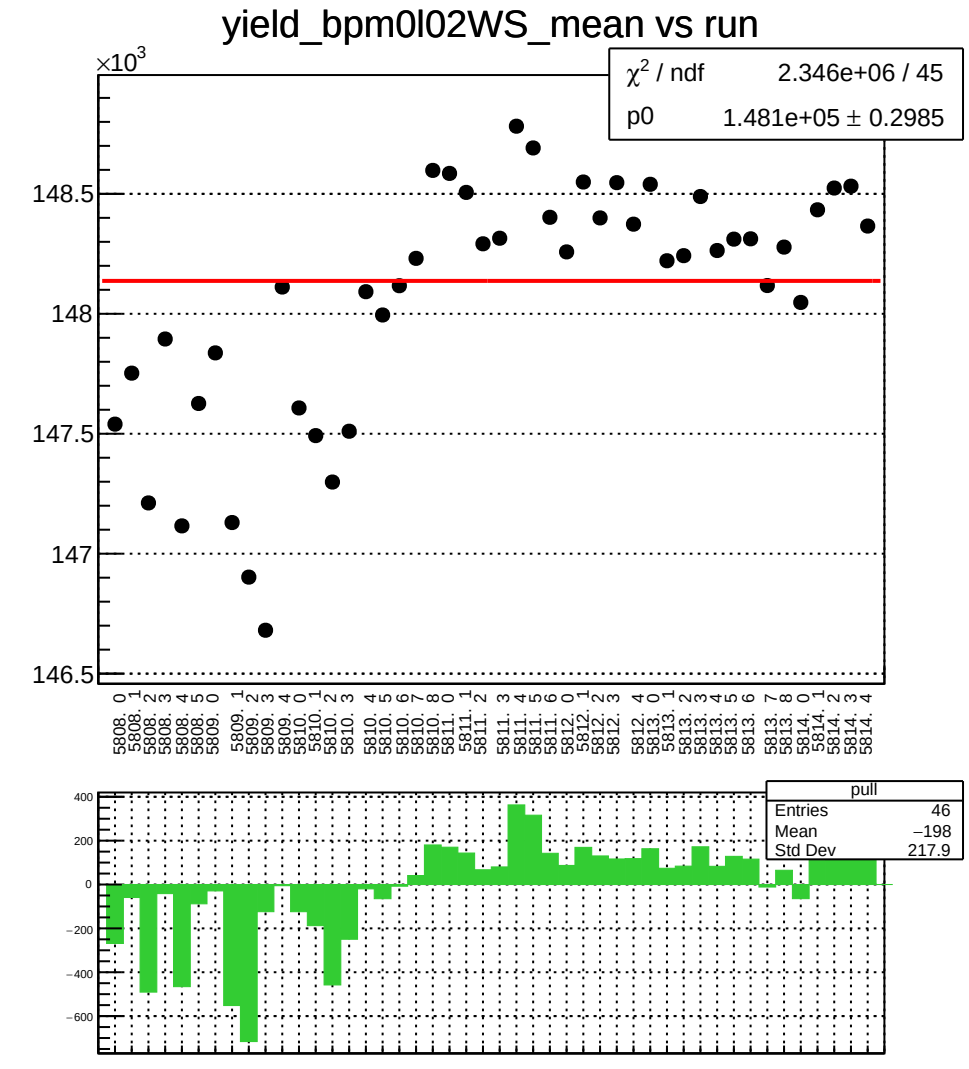

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.921e+05 / 45
p0 1.426e+05 ± 0.134
142.8
142.6
142.4
142.2
142
141.8
141.6
141.4
pull
Entries 46
Mean −833.3
Std Dev 853.6
100
50
0
−50
−100
−150
−200

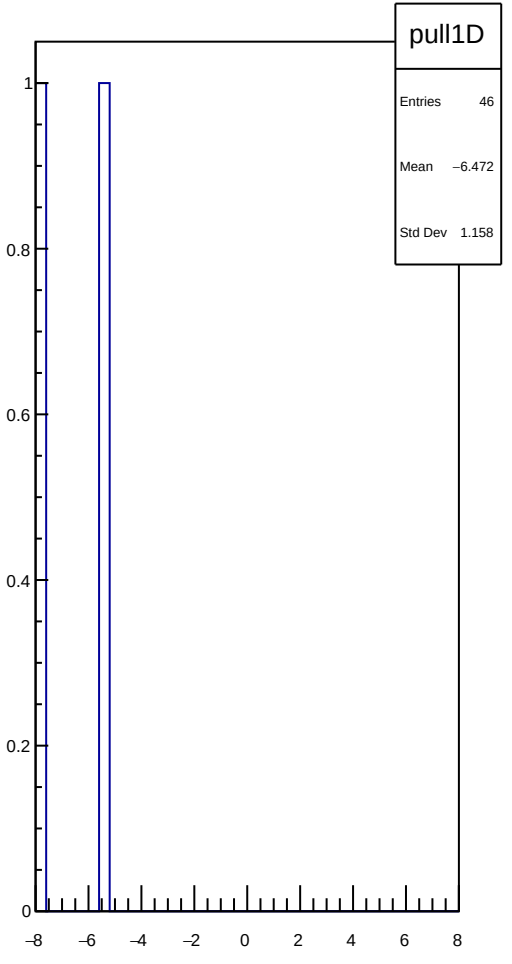

pull1D
Entries 46
Mean −3.673
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

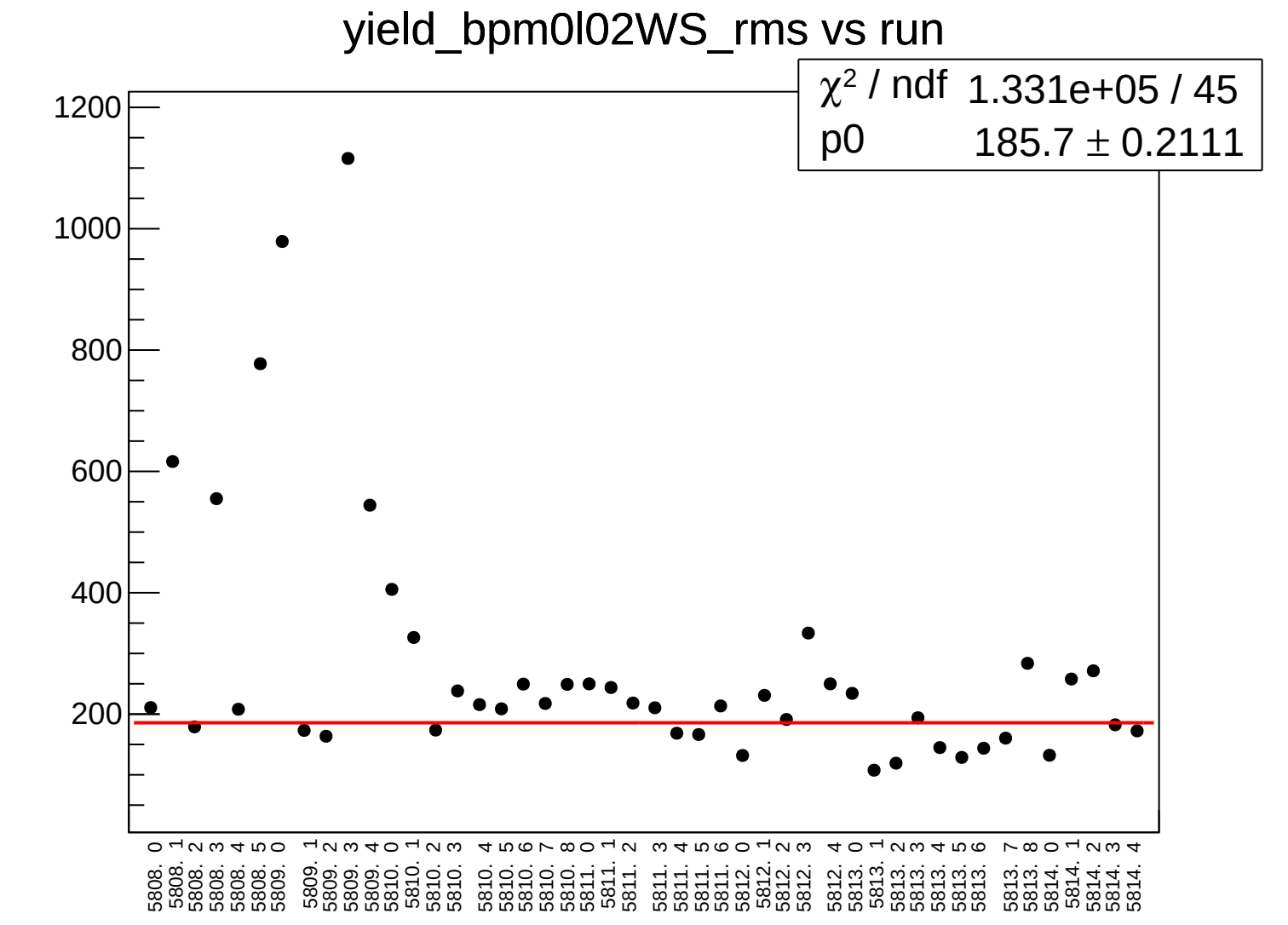

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.019e+04 / 45
p0 88.22 ± 0.09473
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

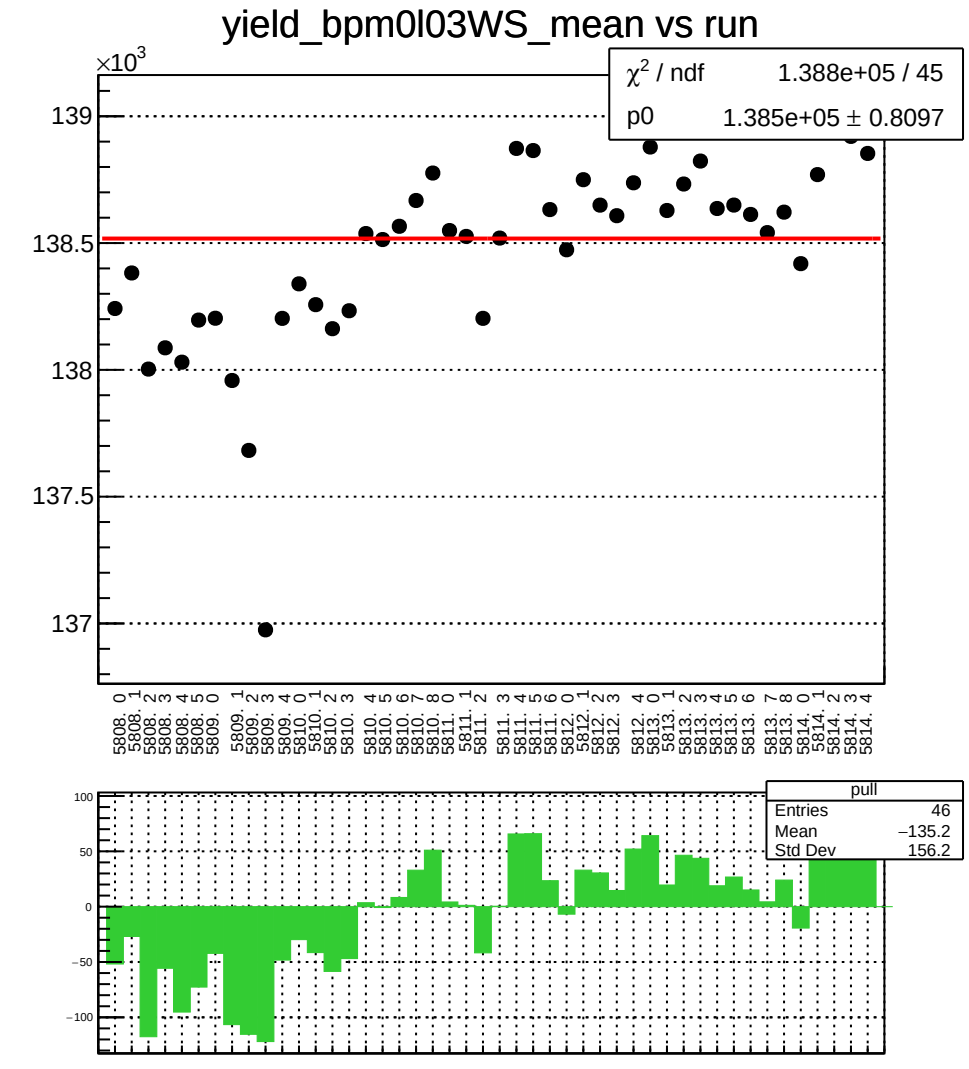

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.7e+06 / 45
p0 1.279e+05 ± 0.1771
128.4
128.2
128
127.8
127.6
127.4
127.2
127
126.8
126.6
126.4
126.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −138.8
Std Dev 159.9
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 46
Mean 3.107
Std Dev 4.307
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

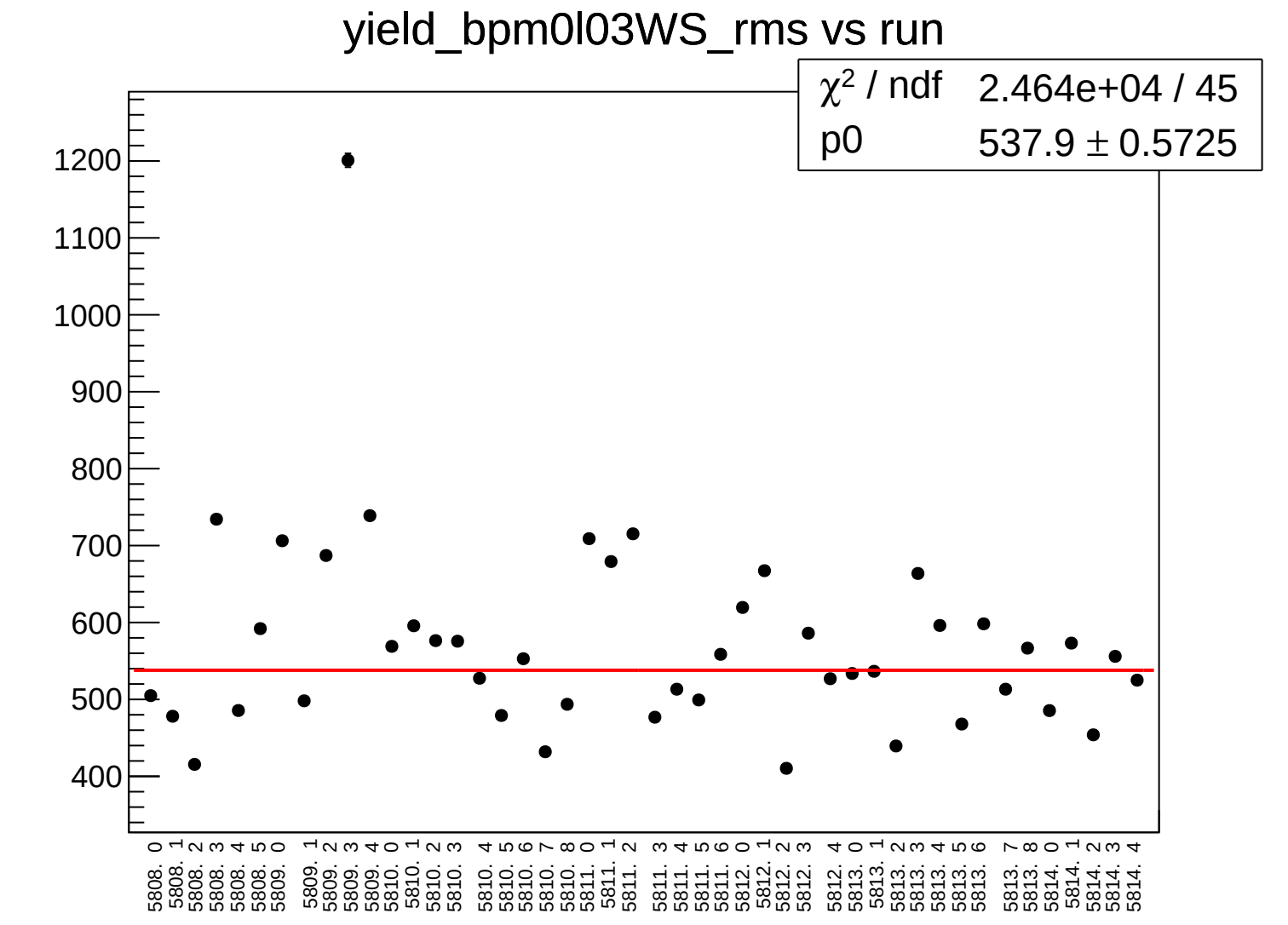

yield_bpm0l01WS_rms vs run
χ² / ndf 4.274e+04 / 45
p0 116.5 ± 0.1252
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

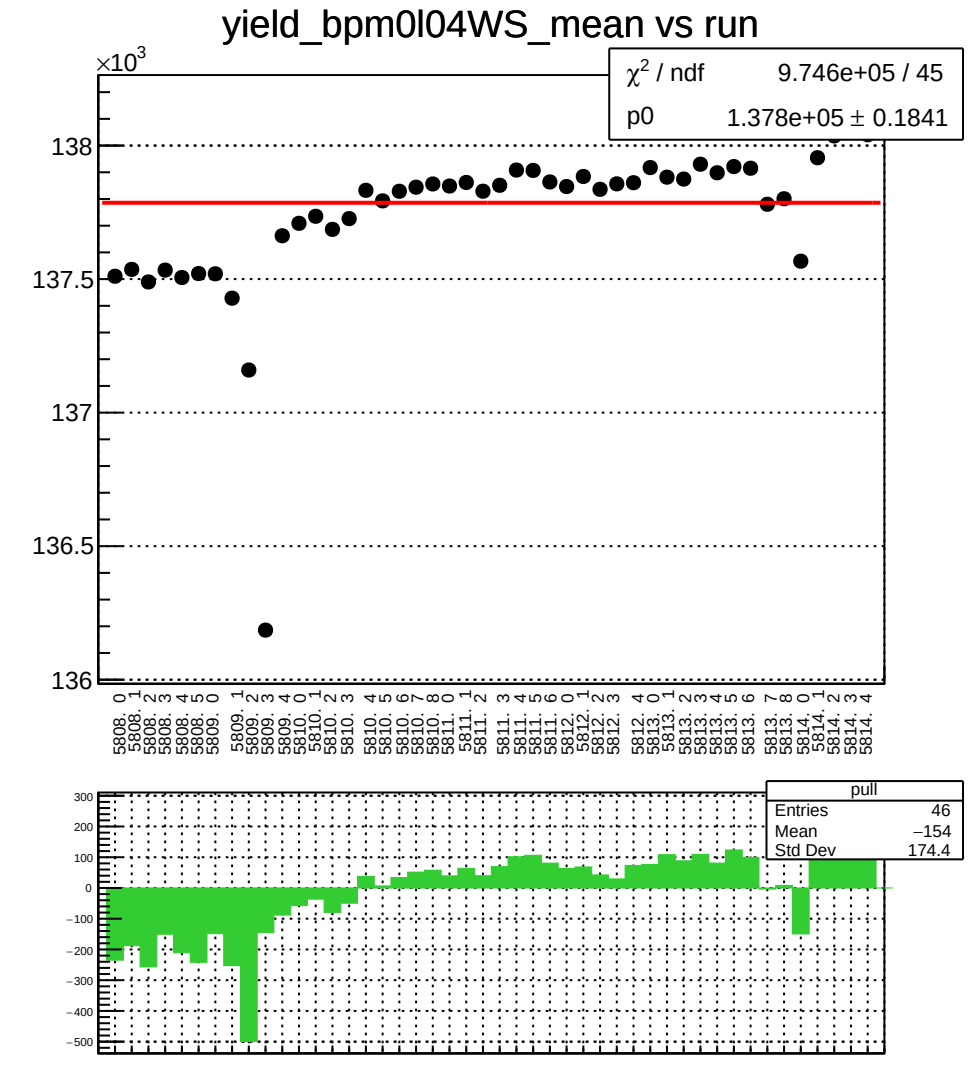

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.346e+06 / 45
p0 1.481e+05 ± 0.2985
148.5
148
147.5
147
146.5
pull
Entries 46
Mean −198
Std Dev 217.9
400
200
0
−200
−400
−600

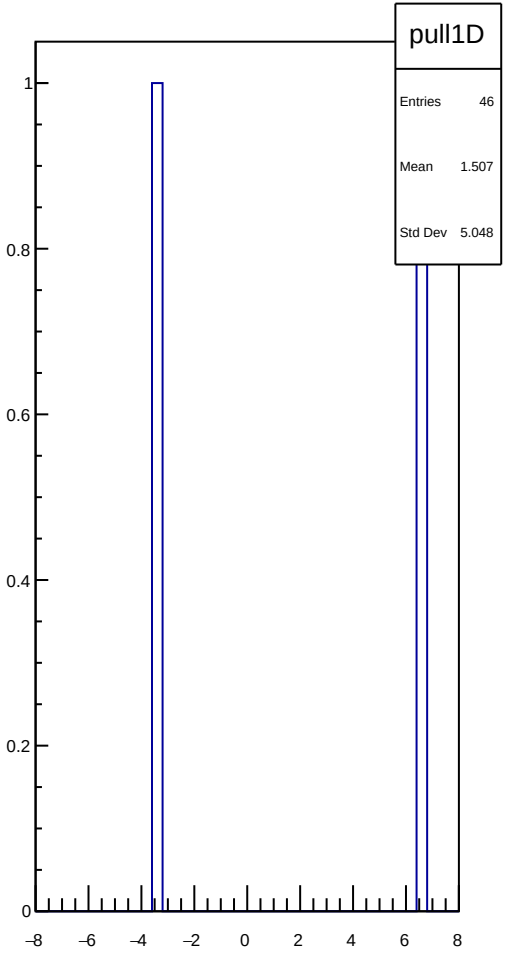

pull1D
Entries 46
Mean −6.472
Std Dev 1.158
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

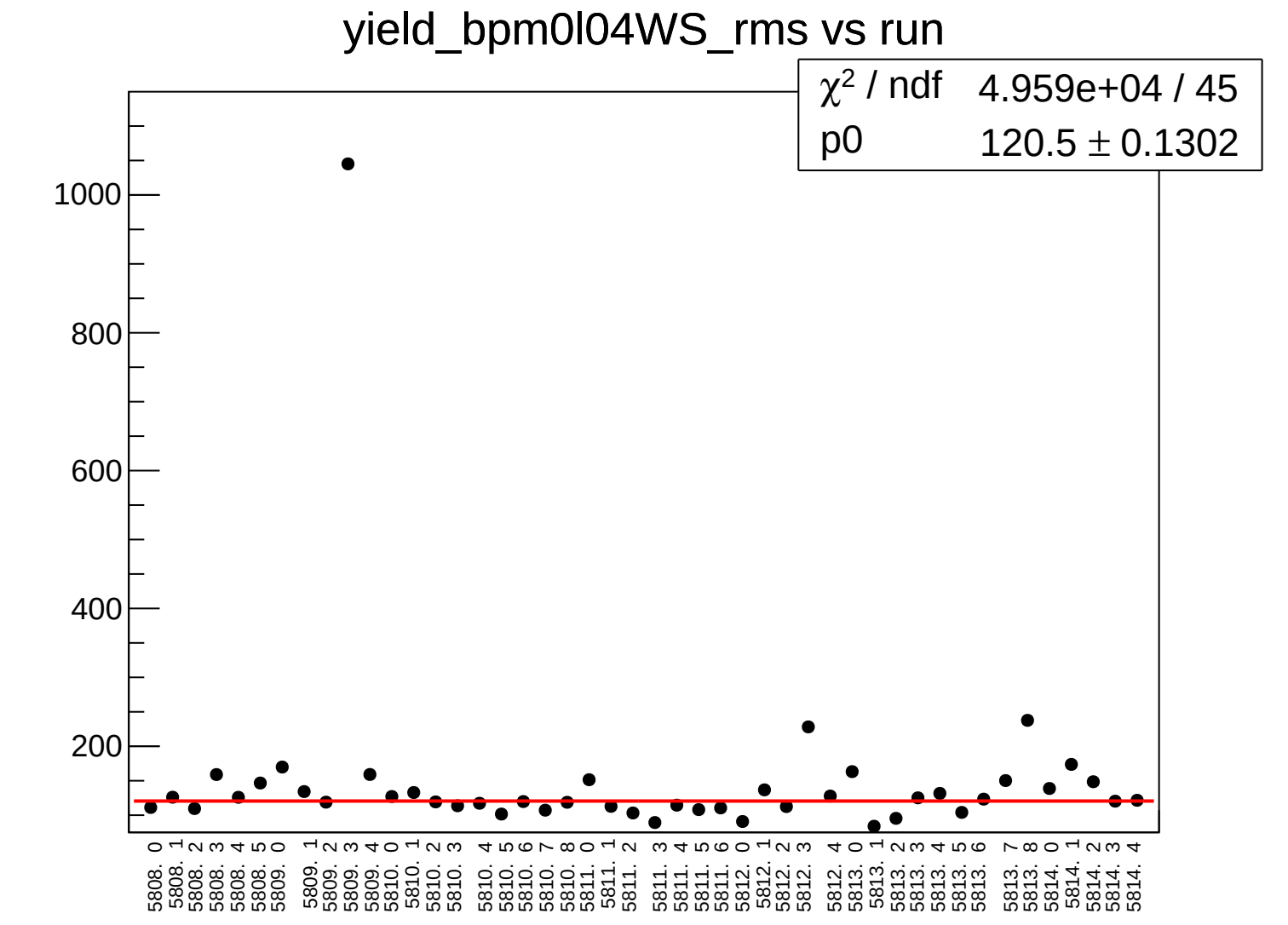

yield_bpm0l02WS_rms vs run
χ² / ndf 1.331e+05 / 45
p0 185.7 ± 0.2111
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

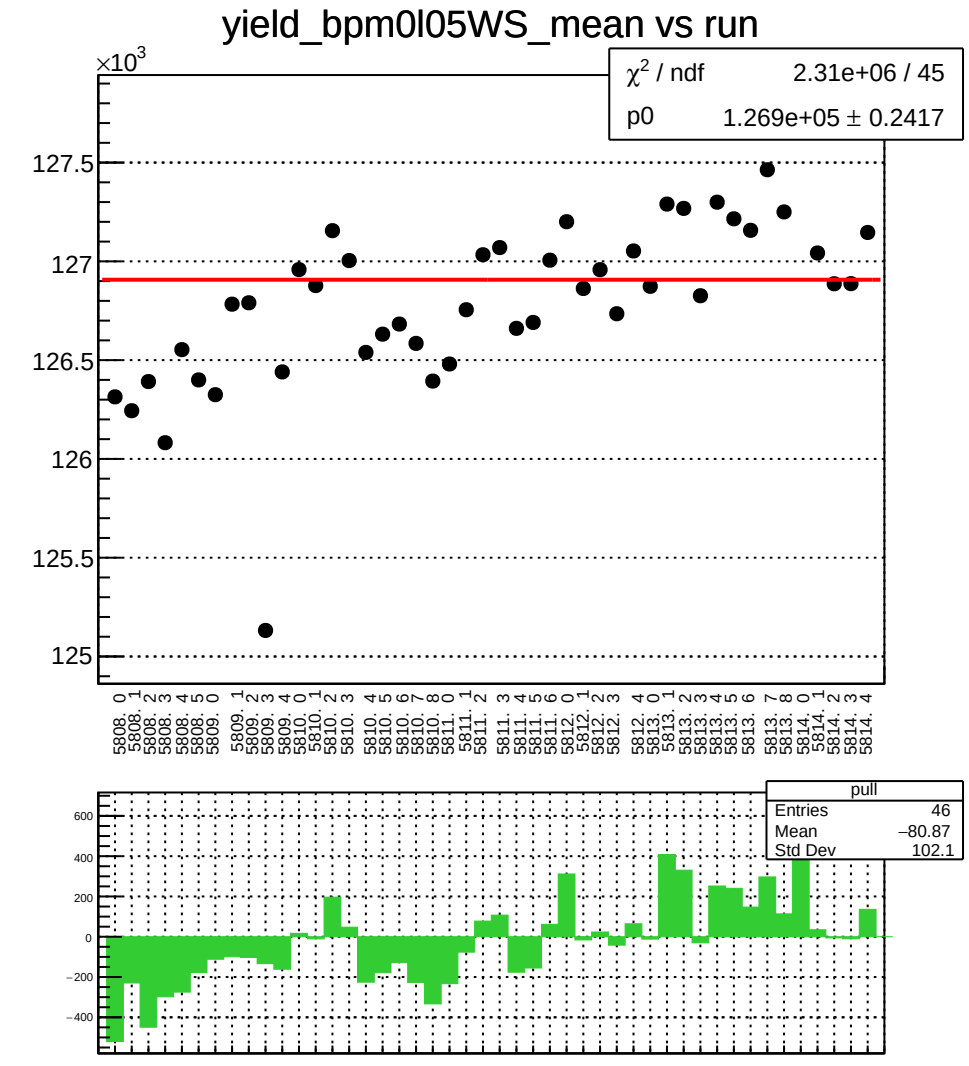

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.388e+05 / 45
p0 1.385e+05 ± 0.8097
139
138.5
138
137.5
137
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −135.2
Std Dev 156.2
100
50
0
−50
−100
pull1D
Entries 46
Mean 0.8766
Std Dev 3.625
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

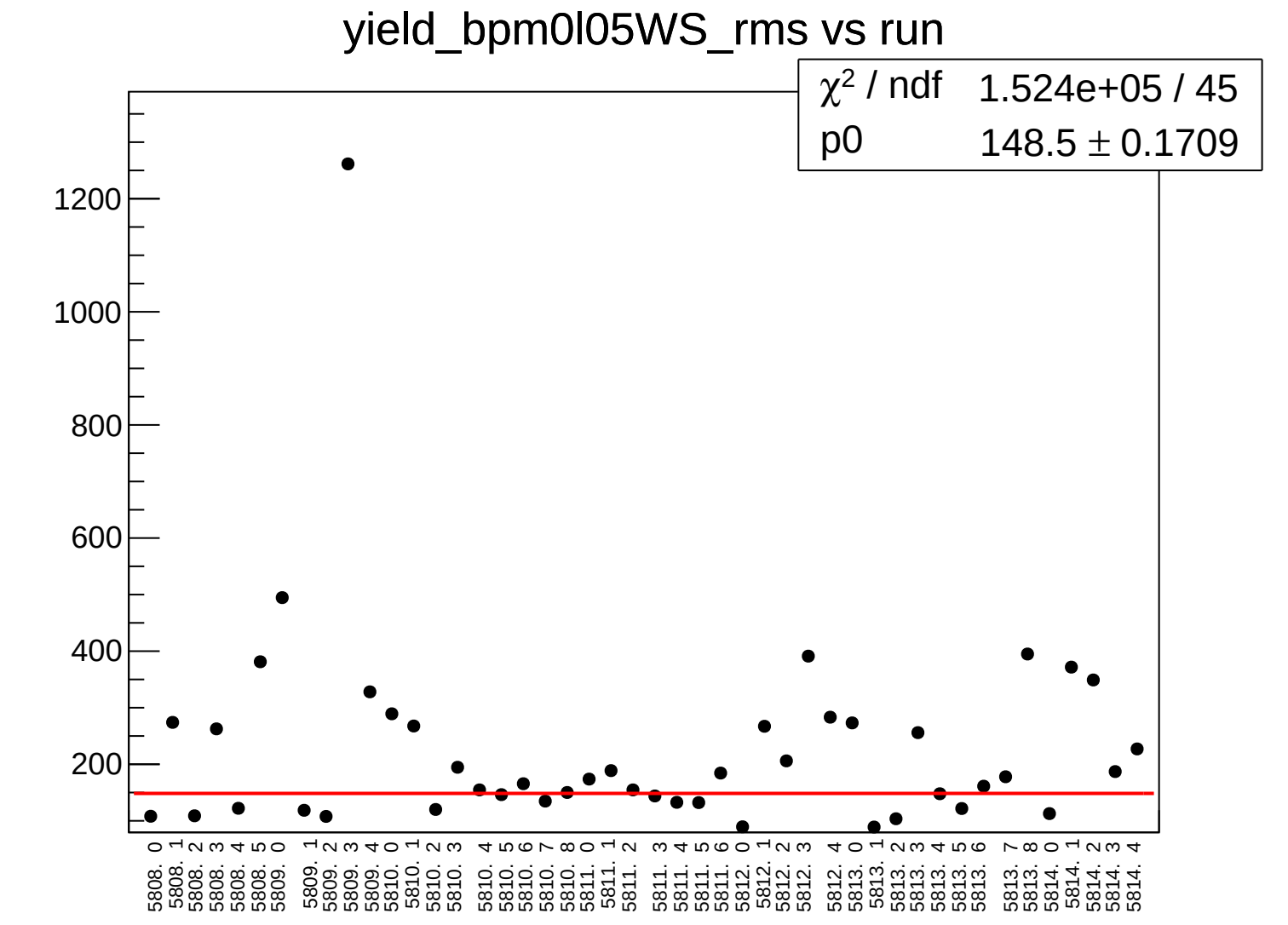

yield_bpm0l03WS_rms vs run
χ² / ndf 2.464e+04 / 45
p0 537.9 ± 0.5725
1200
1100
1000
900
800
700
600
500
400
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

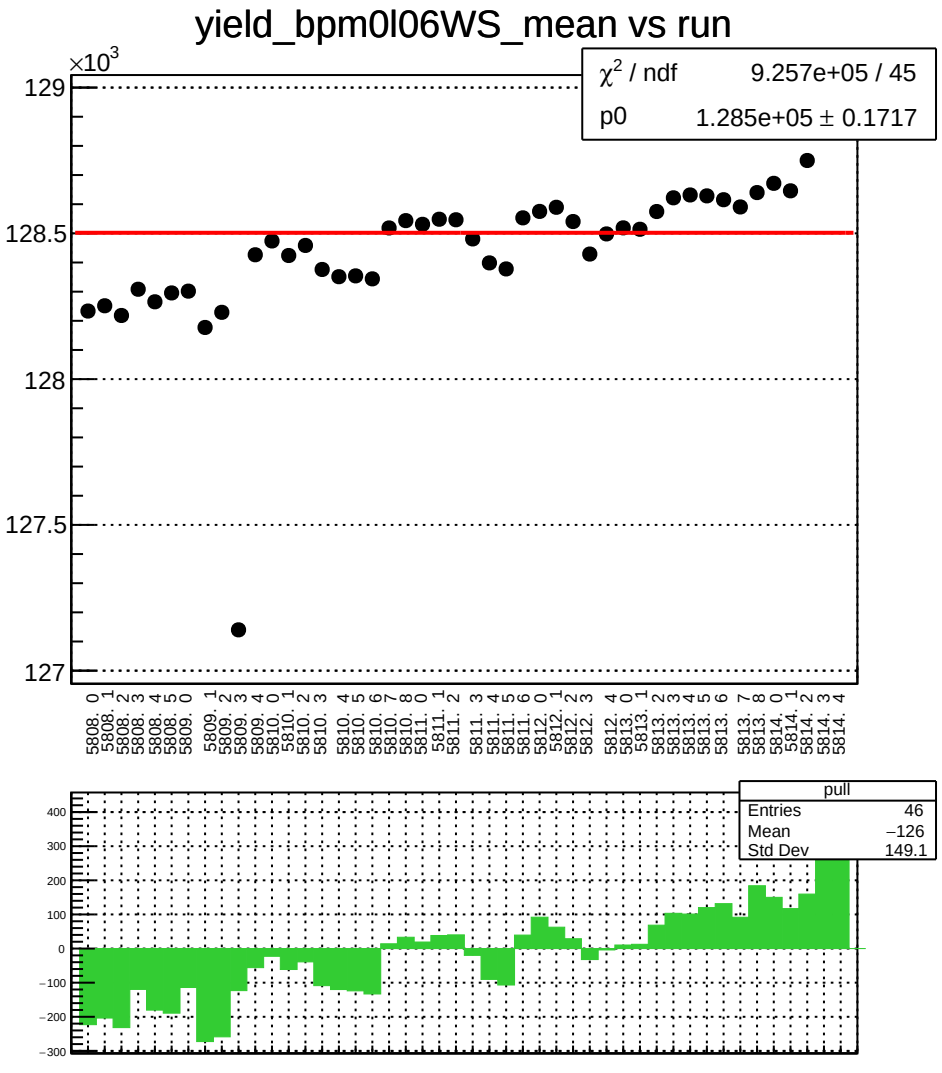

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 9.746e+05 / 45
p0 1.378e+05 ± 0.1841
138
137.5
137
136.5
136
pull
Entries 46
Mean −154
Std Dev 174.4
300
200
100
0
−100
−200
−300
−400
−500

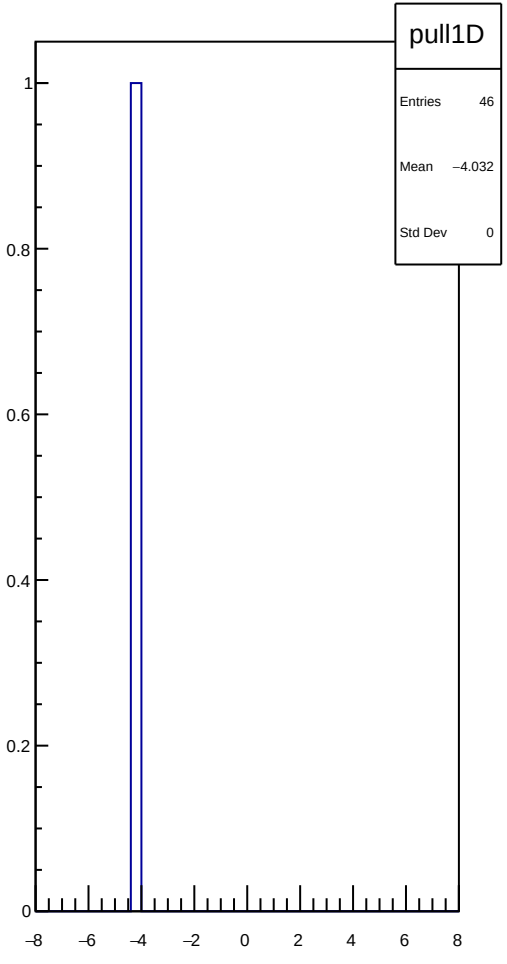

pull1D
Entries 46
Mean 1.507
Std Dev 5.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

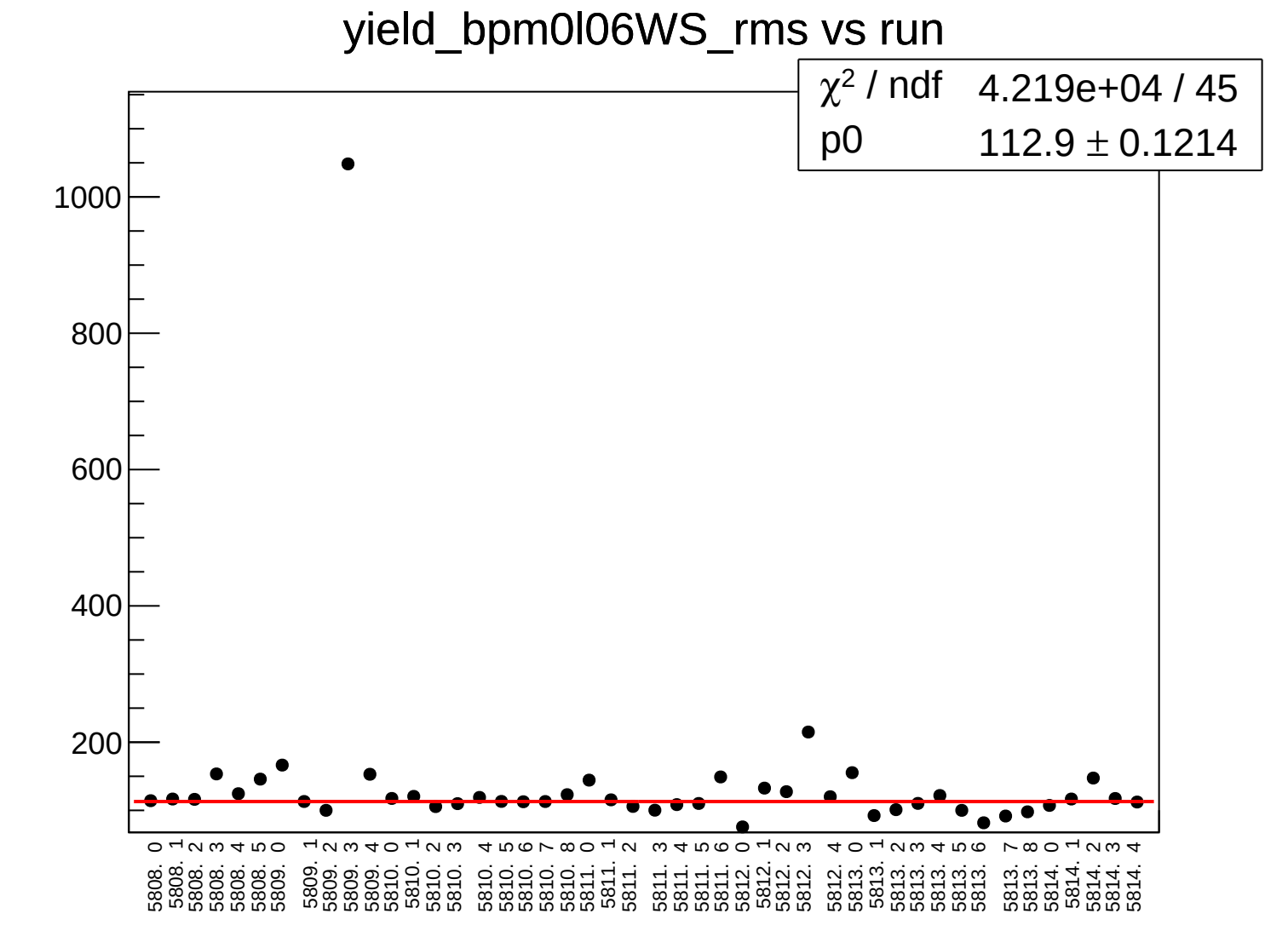

yield_bpm0l04WS_rms vs run
χ² / ndf 4.959e+04 / 45
p0 120.5 ± 0.1302
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

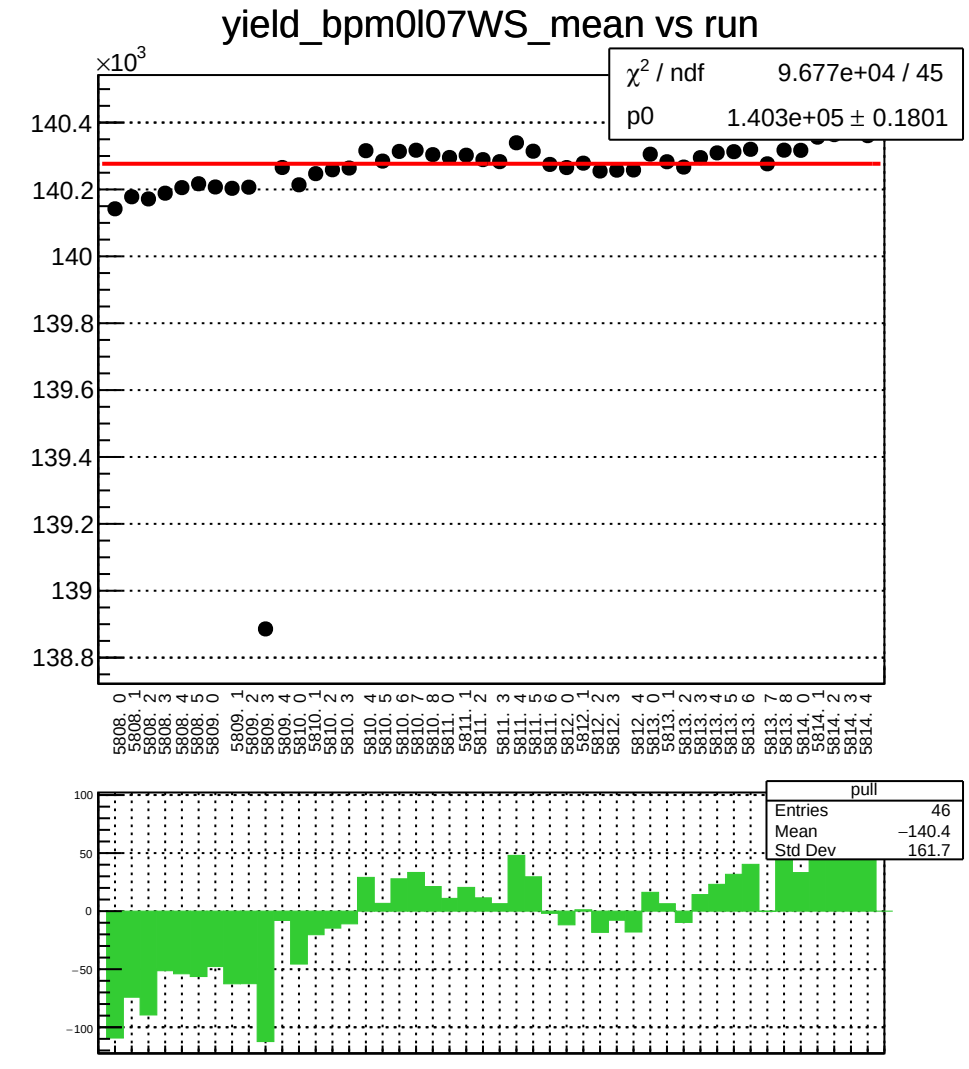

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 2.31e+06 / 45
p0 1.269e+05 ± 0.2417
127.5
127
126.5
126
125.5
125
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5808. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −80.87
Std Dev 102.1
600
400
200
0
−200
−400
pull1D
Entries 46
Mean −5.523
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

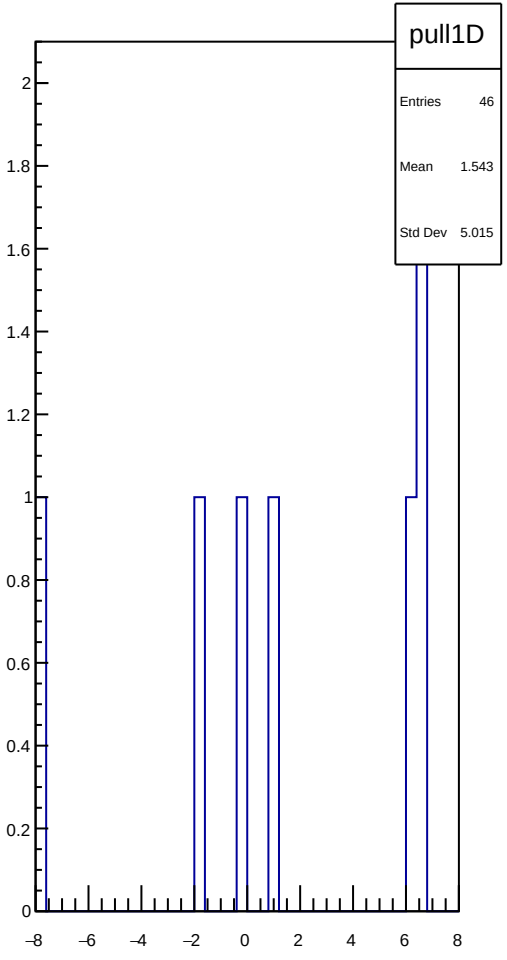

yield_bpm0l05WS_rms vs run
χ² / ndf 1.524e+05 / 45
p0 148.5 ± 0.1709
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

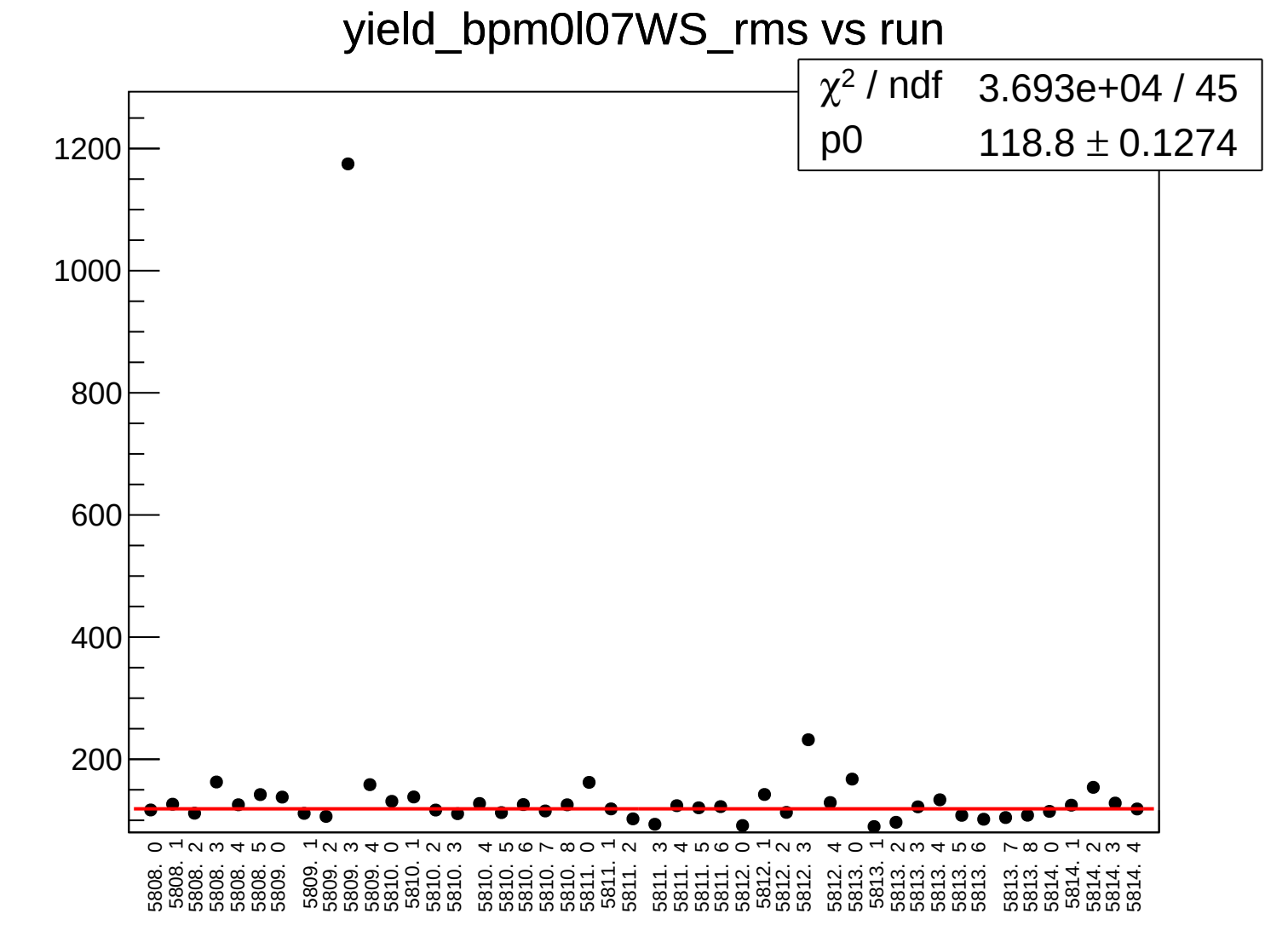

yield_bpm0l06WS_mean vs run
×10^3
129
128.5
128
127.5
127
χ² / ndf 9.257e+05 / 45
p0 1.285e+05 ± 0.1717
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −126
Std Dev 149.1
400
300
200
100
0
−100
−200
−300

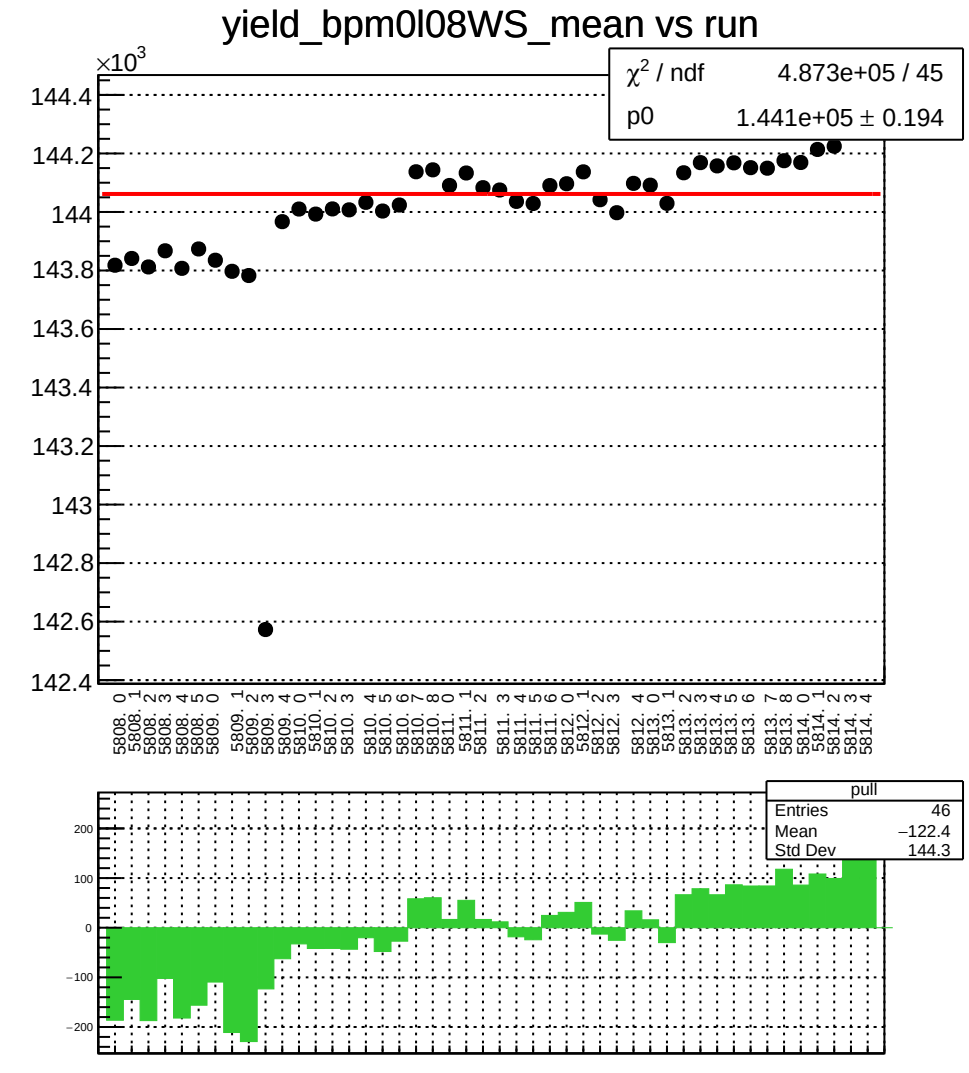

pull1D
Entries 46
Mean −4.032
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

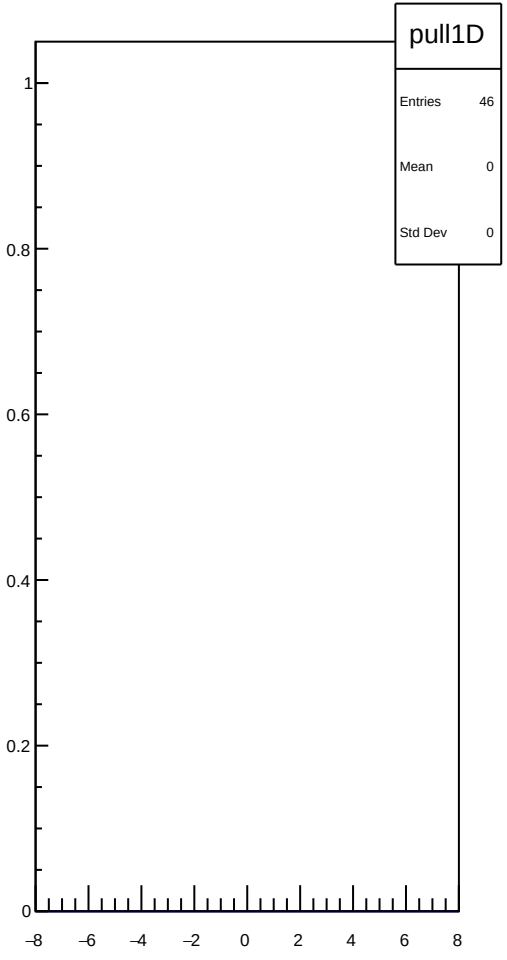

yield_bpm0l06WS_rms vs run
χ² / ndf 4.219e+04 / 45
p0 112.9 ± 0.1214
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

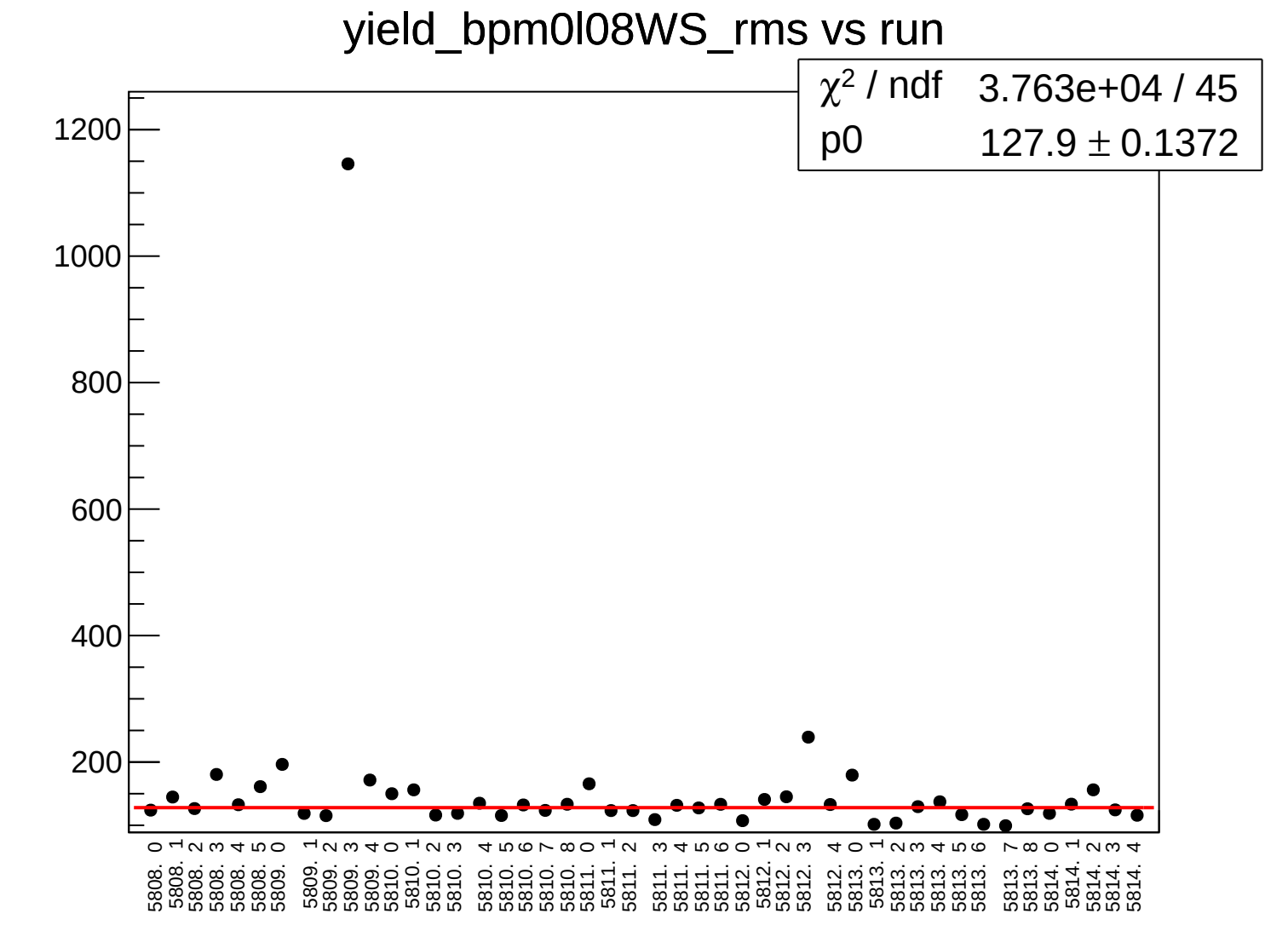

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 9.677e+04 / 45
p0 1.403e+05 ± 0.1801
140.4
140.2
140
139.8
139.6
139.4
139.2
139
138.8
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −140.4
Std Dev 161.7
100
50
0
−50
−100

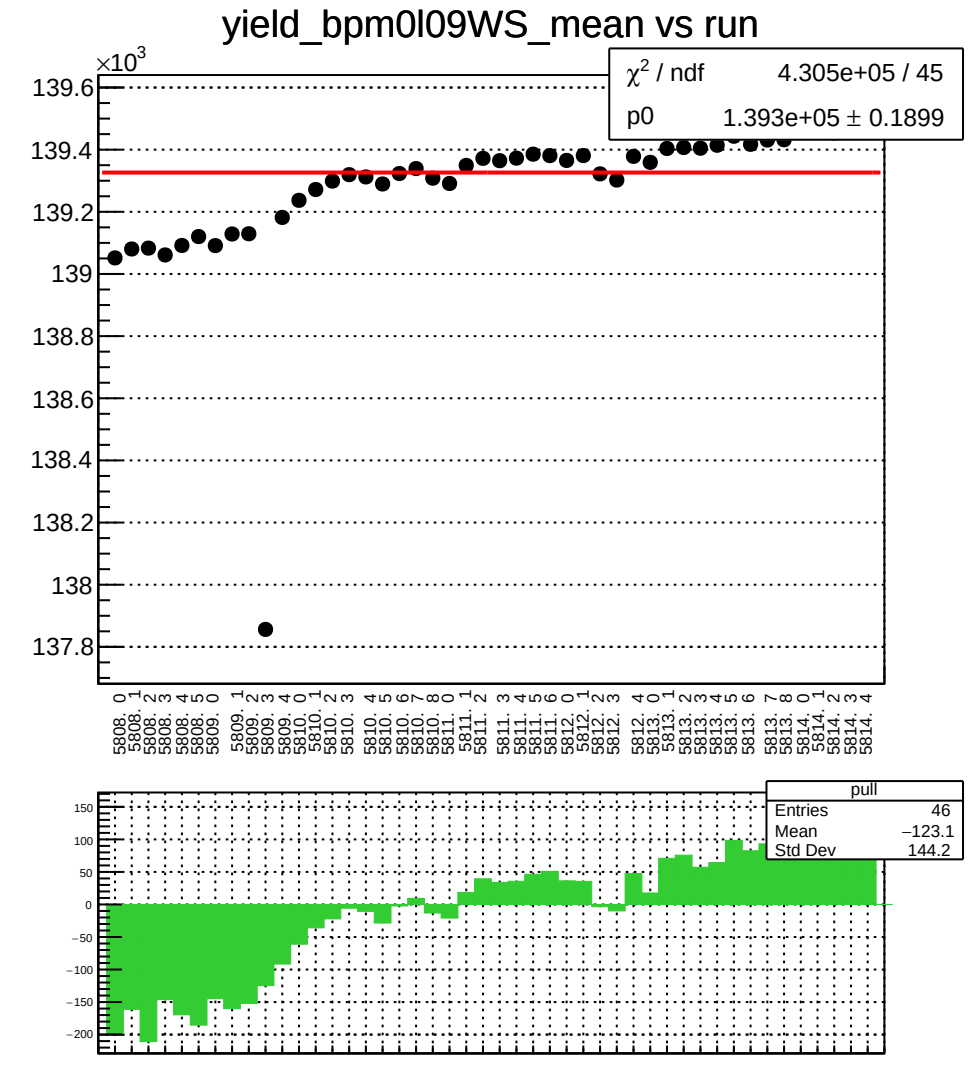

pull1D
Entries 46
Mean 1.543
Std Dev 5.015
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

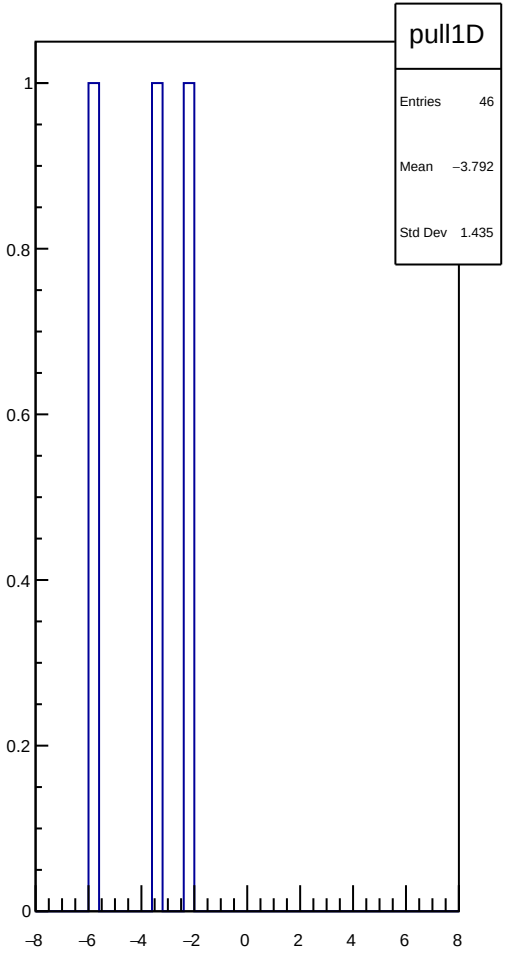

yield_bpm0l07WS_rms vs run
χ² / ndf 3.693e+04 / 45
p0 118.8 ± 0.1274
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

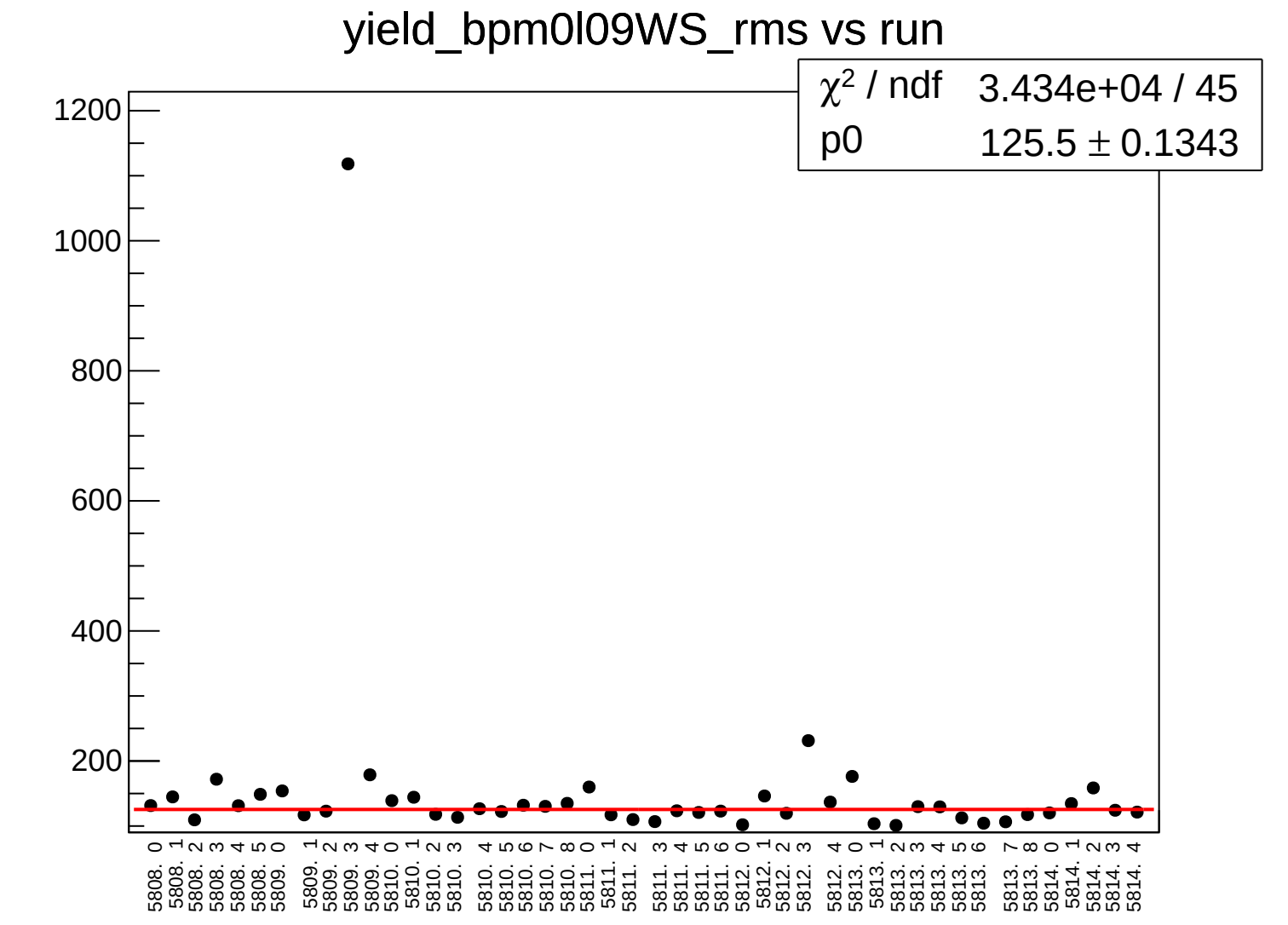

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.873e+05 / 45
p0 1.441e+05 ± 0.194
144.4
144.2
144
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −122.4
Std Dev 144.3
200
100
0
−100
−200

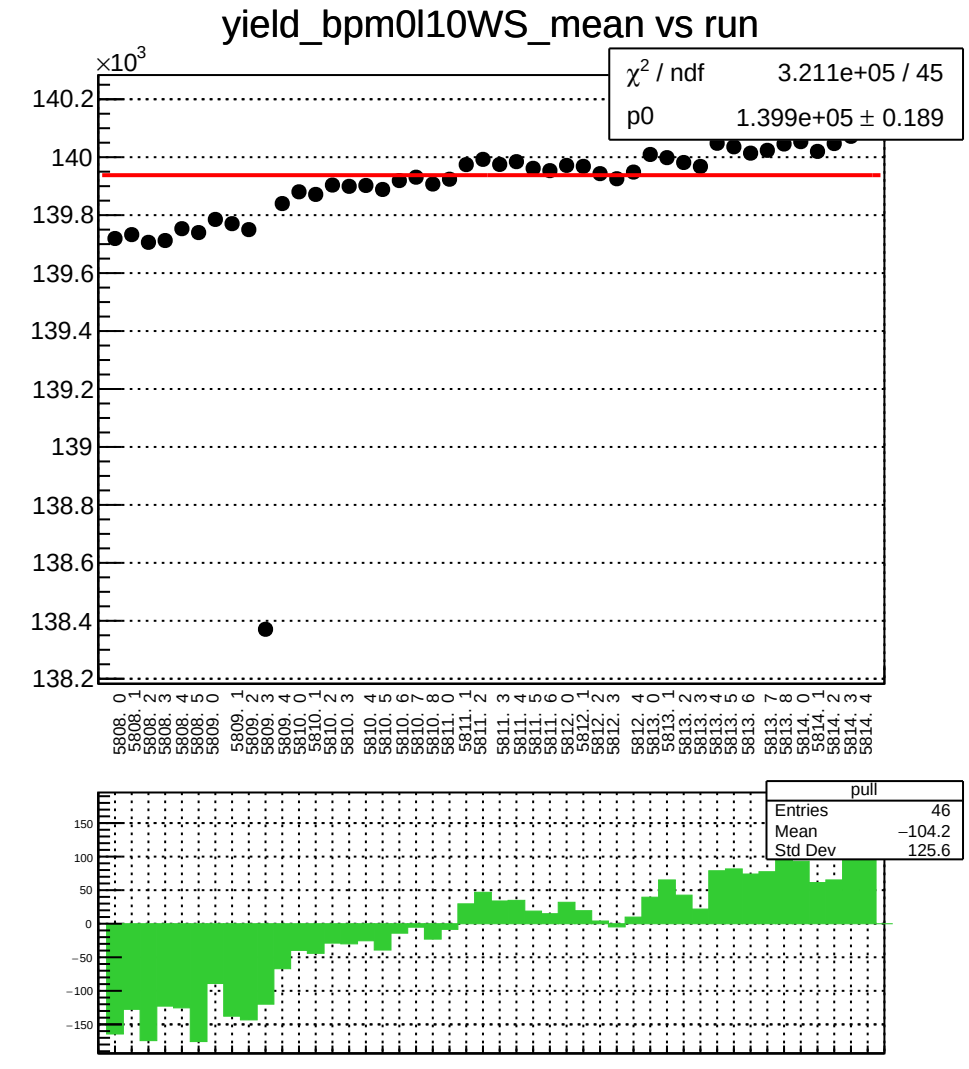

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

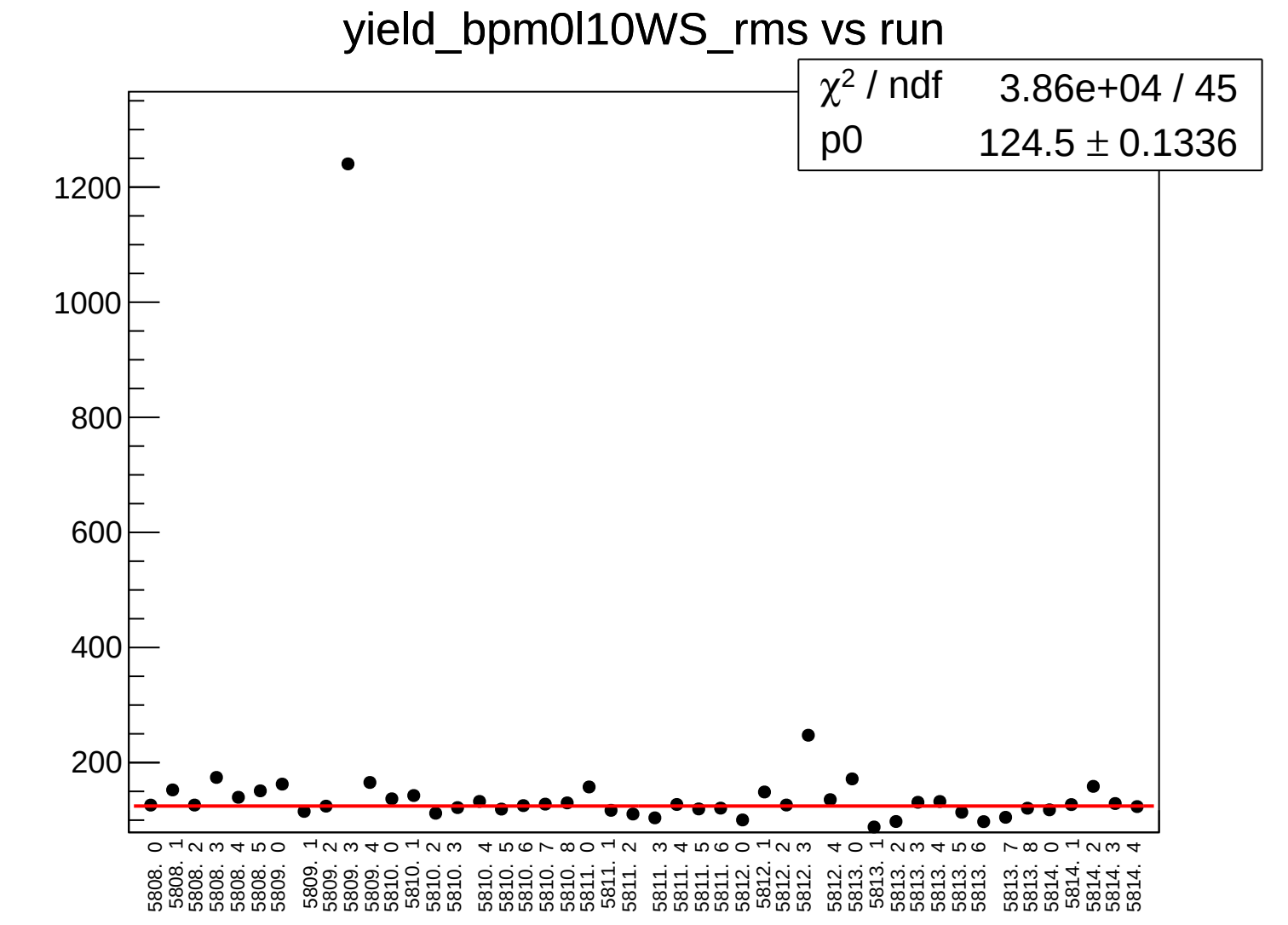

yield_bpm0l08WS_rms vs run
χ² / ndf 3.763e+04 / 45
p0 127.9 ± 0.1372
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

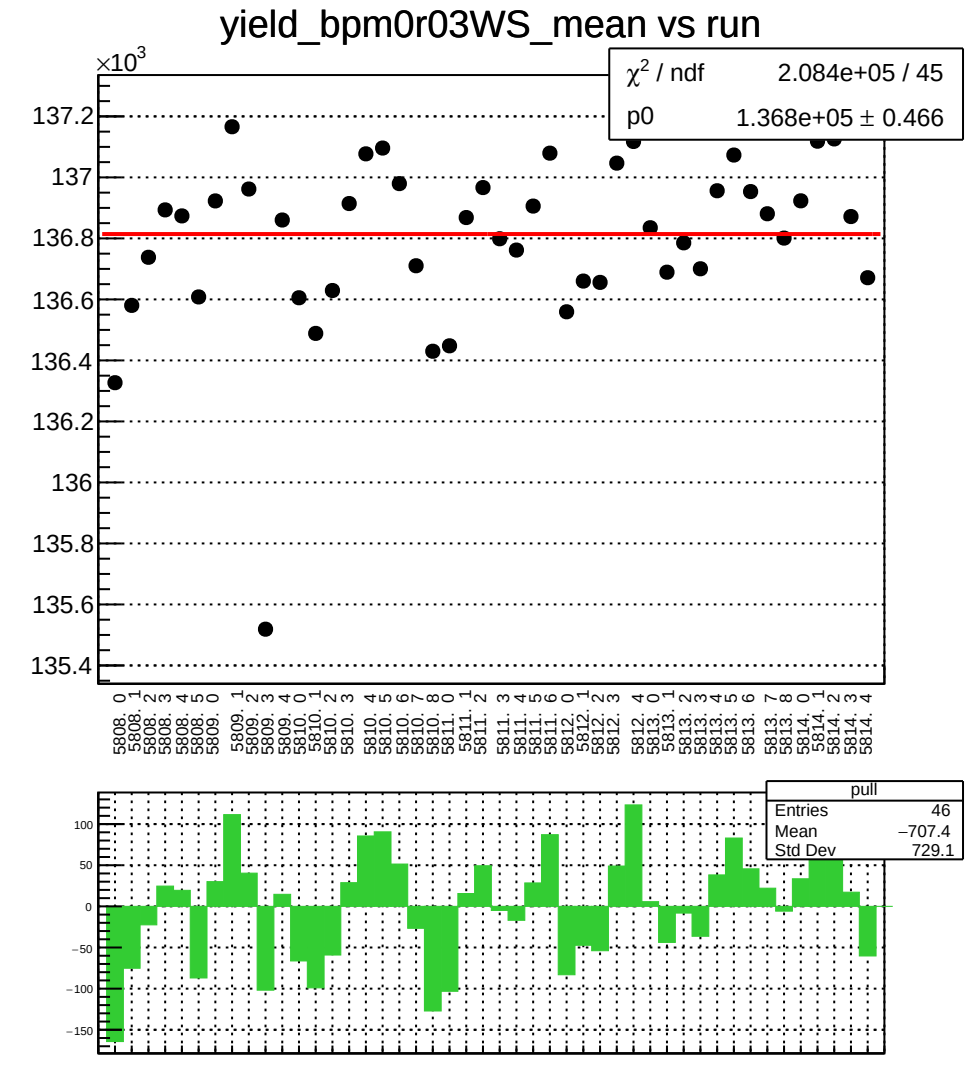

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 4.305e+05 / 45
p0 1.393e+05 ± 0.1899
139.6
139.4
139.2
139
138.8
138.6
138.4
138.2
138
137.8
pull
Entries 46
Mean −123.1
Std Dev 144.2
150
100
50
0
−50
−100
−150
−200

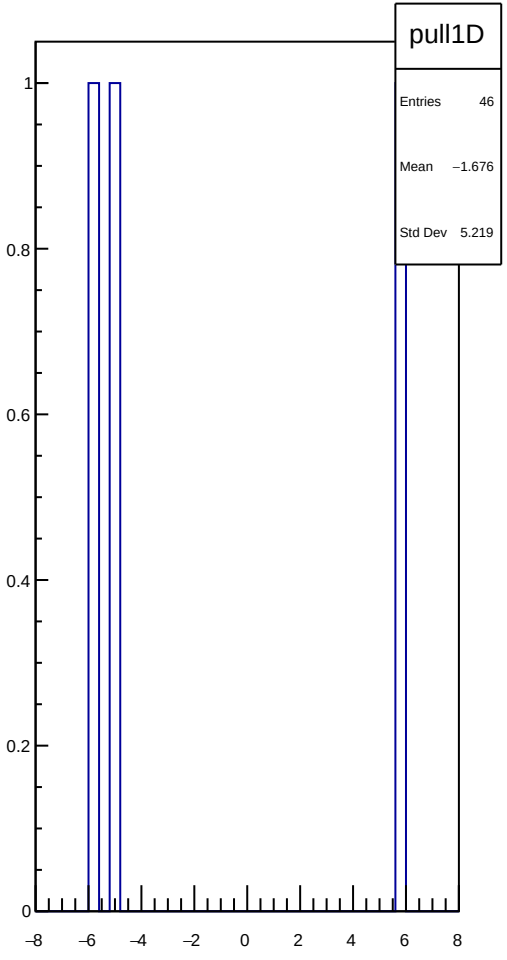

pull1D
Entries 46
Mean −3.792
Std Dev 1.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

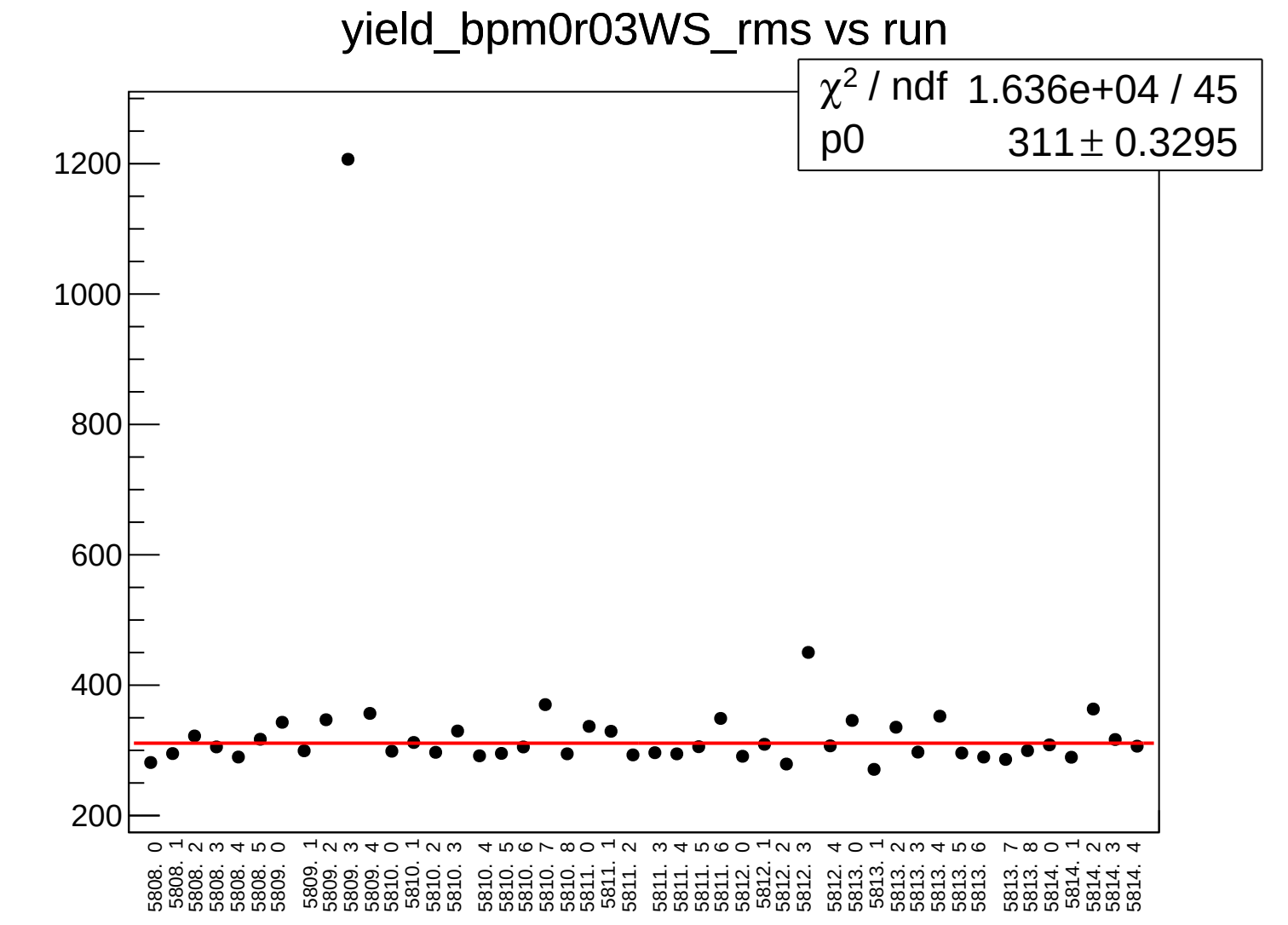

yield_bpm0l09WS_rms vs run
χ² / ndf 3.434e+04 / 45
p0 125.5 ± 0.1343
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

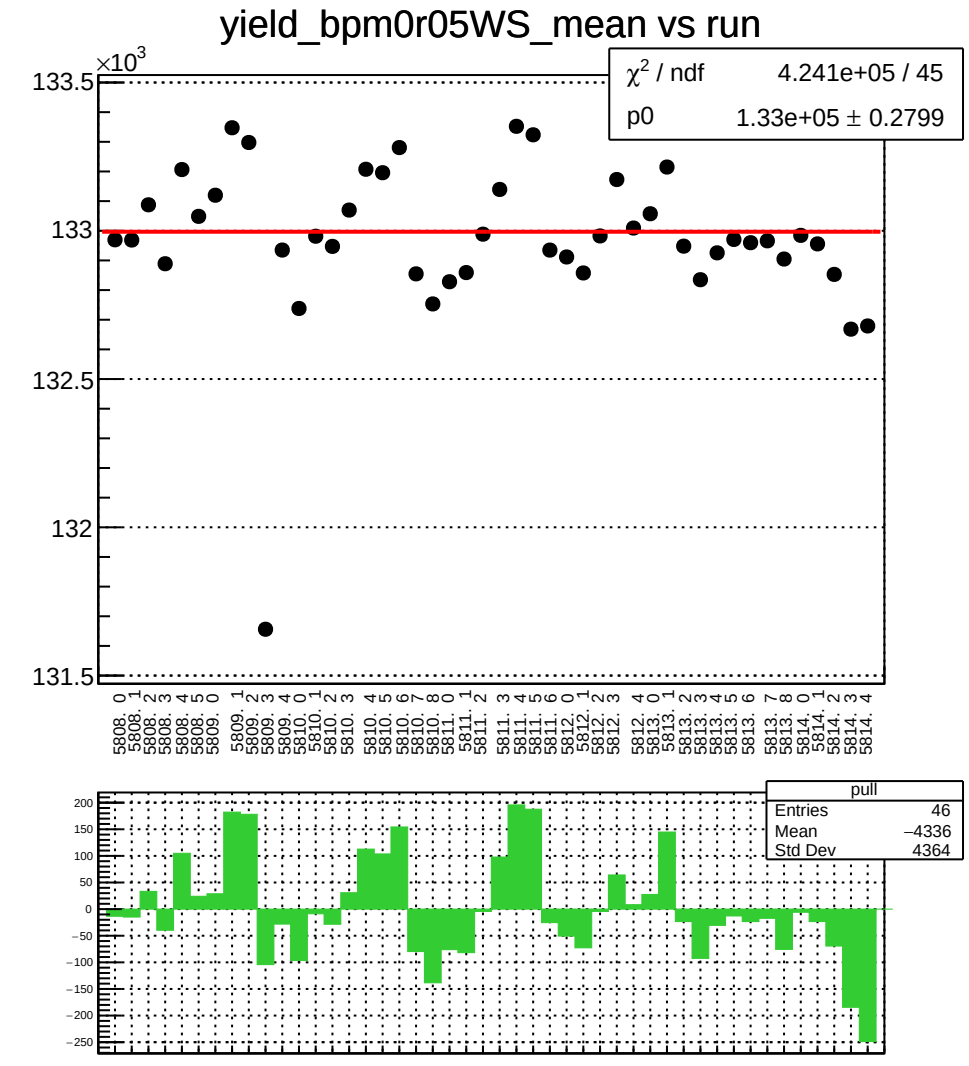

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.211e+05 / 45
p0 1.399e+05 ± 0.189
140.2
140
139.8
139.6
139.4
139.2
139
138.8
138.6
138.4
138.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −104.2
Std Dev 125.6
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean −1.953
Std Dev 4.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

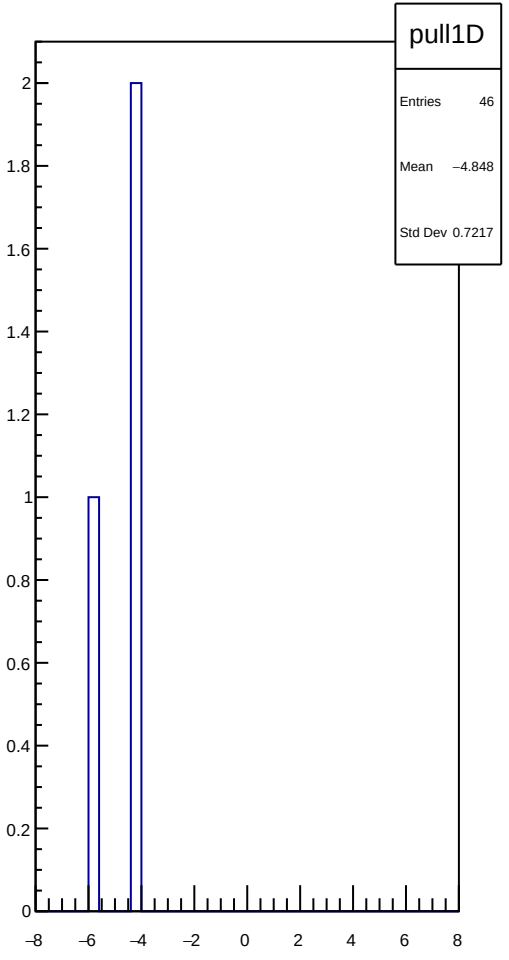

yield_bpm0l10WS_rms vs run
χ² / ndf 3.86e+04 / 45
p0 124.5 ± 0.1336
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

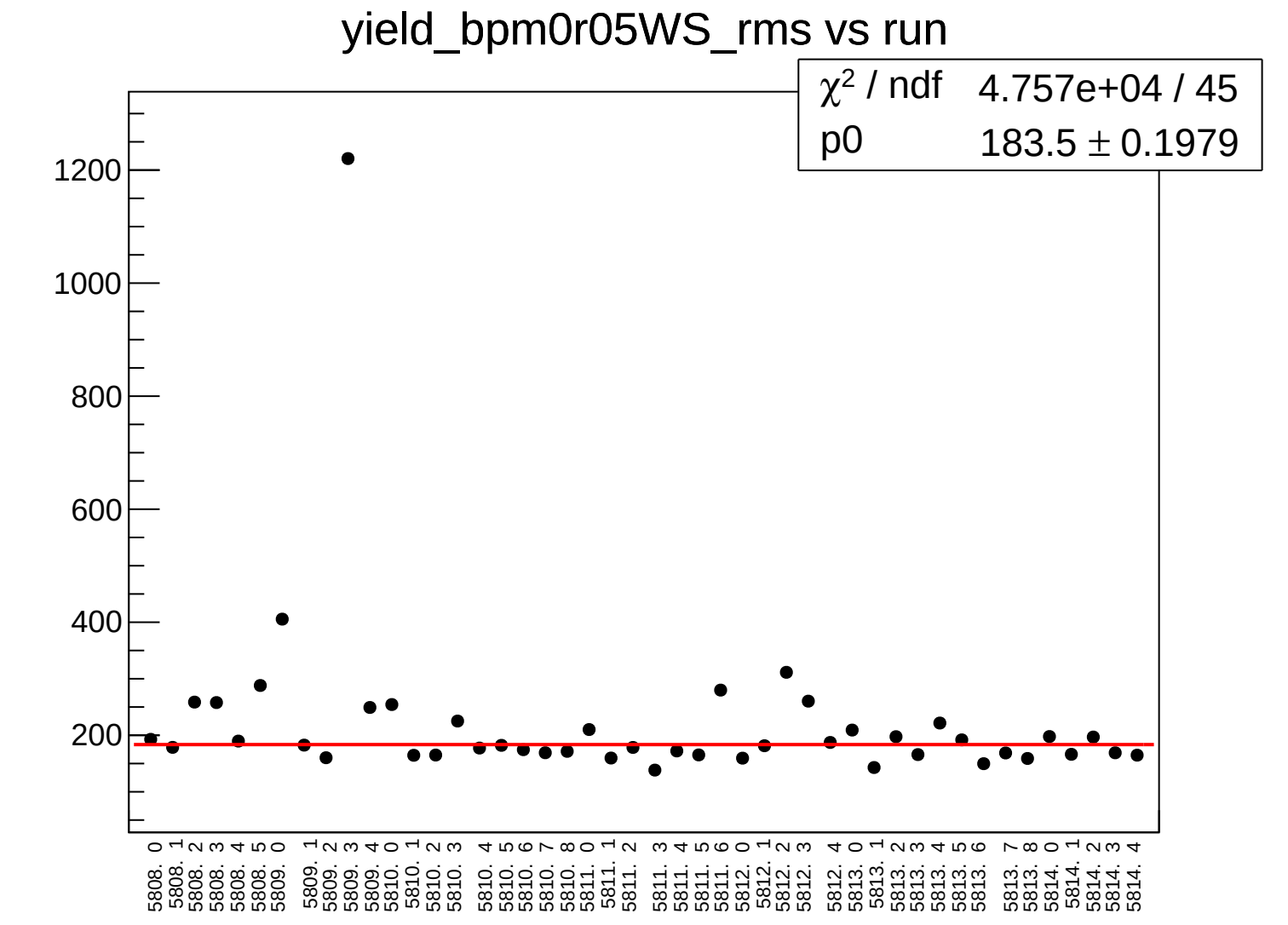

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 2.084e+05 / 45
p0 1.368e+05 ± 0.466
137.2
137
136.8
136.6
136.4
136.2
136
135.8
135.6
135.4
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −707.4
Std Dev 729.1
100
50
0
−50
−100
−150

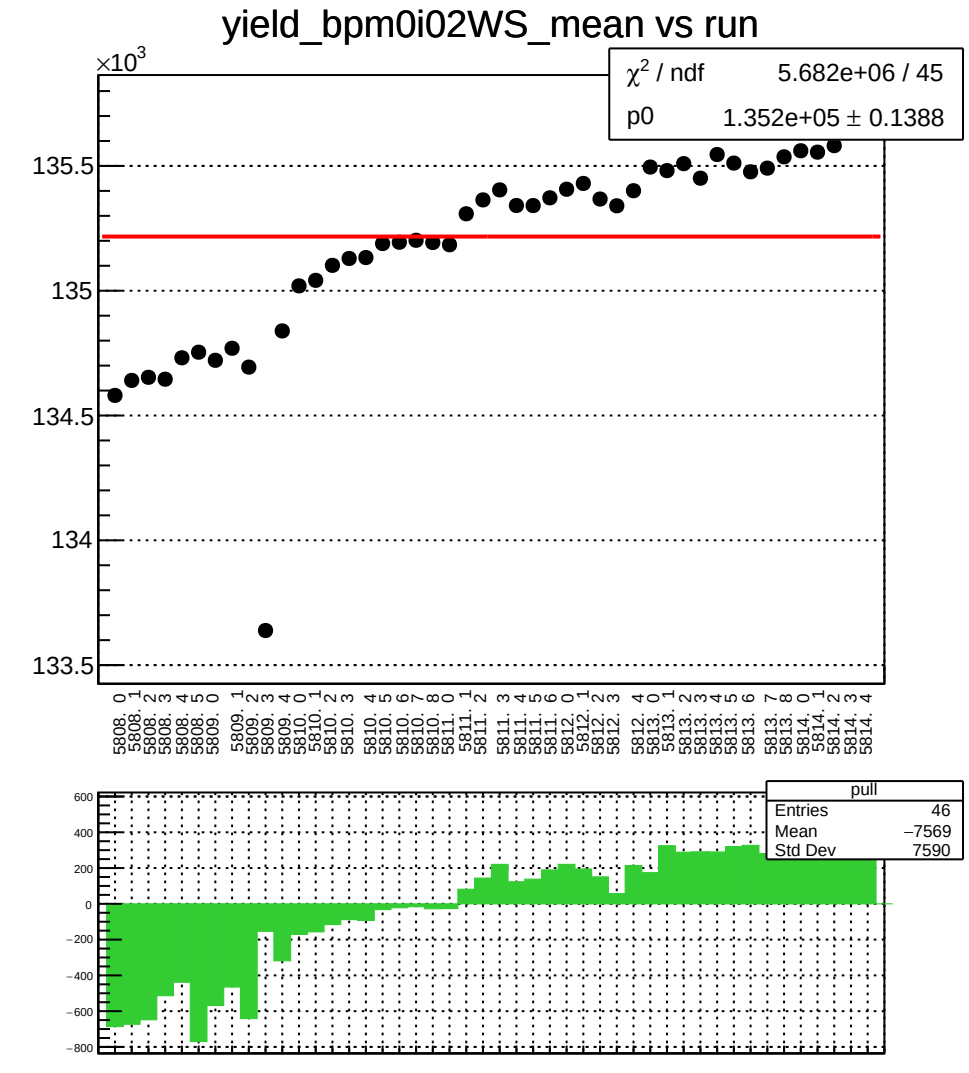

pull1D
Entries 46
Mean −1.676
Std Dev 5.219
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

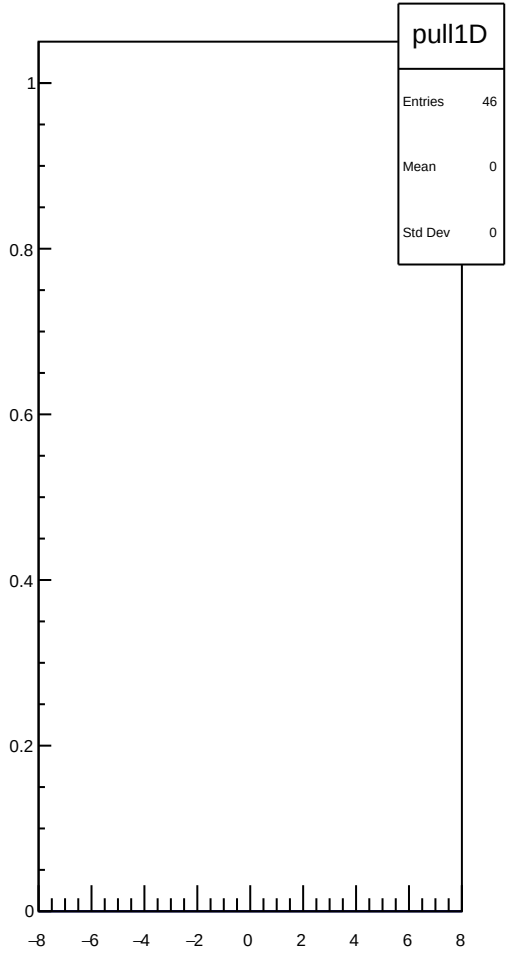

yield_bpm0r03WS_rms vs run
χ² / ndf 1.636e+04 / 45
p0 311 ± 0.3295
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

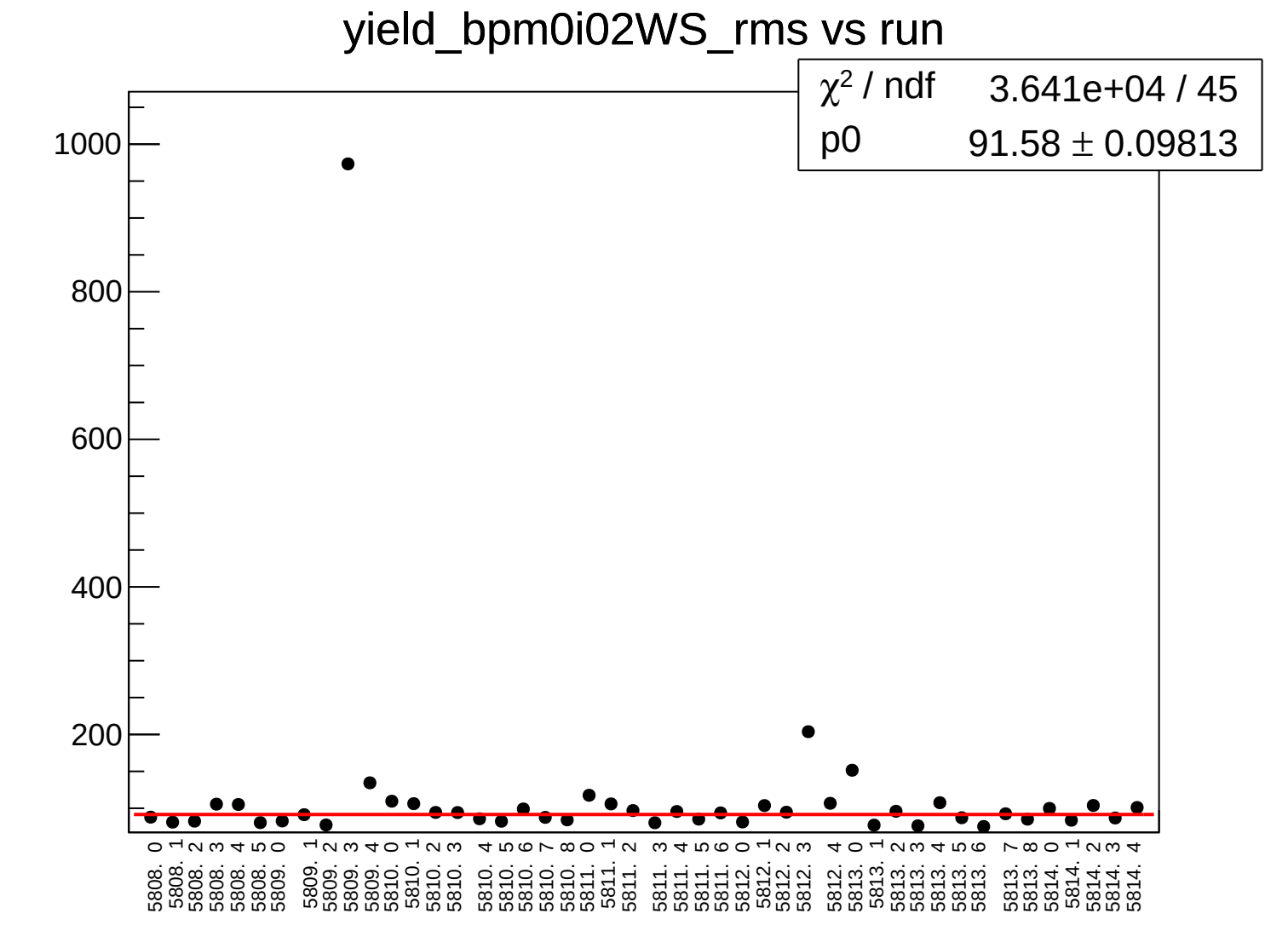

yield_bpm0r05WS_mean vs run
×10^3
133.5
133
132.5
132
131.5
χ² / ndf 4.241e+05 / 45
p0 1.33e+05 ± 0.2799
pull
Entries 46
Mean −4336
Std Dev 4364
200
150
100
50
0
−50
−100
−150
−200
−250

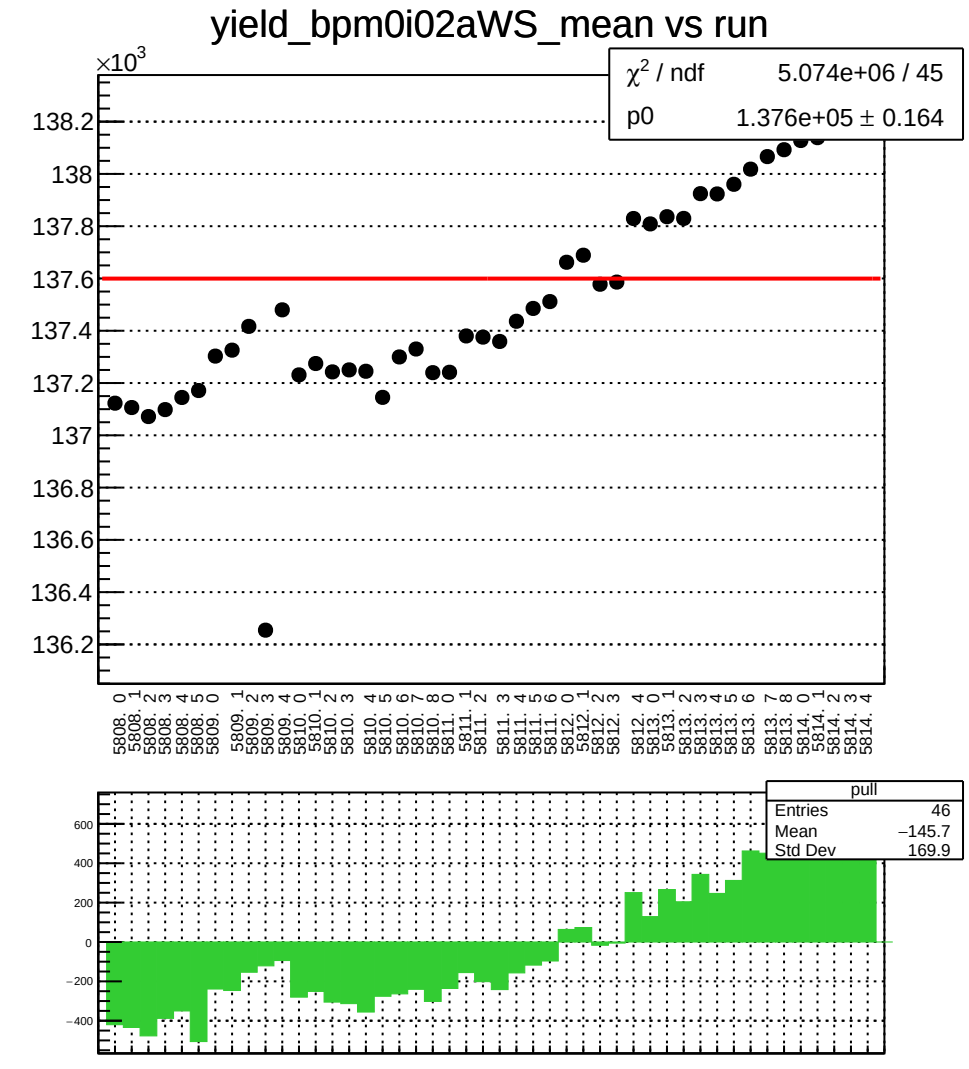

pull1D
Entries 46
Mean −4.848
Std Dev 0.7217
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

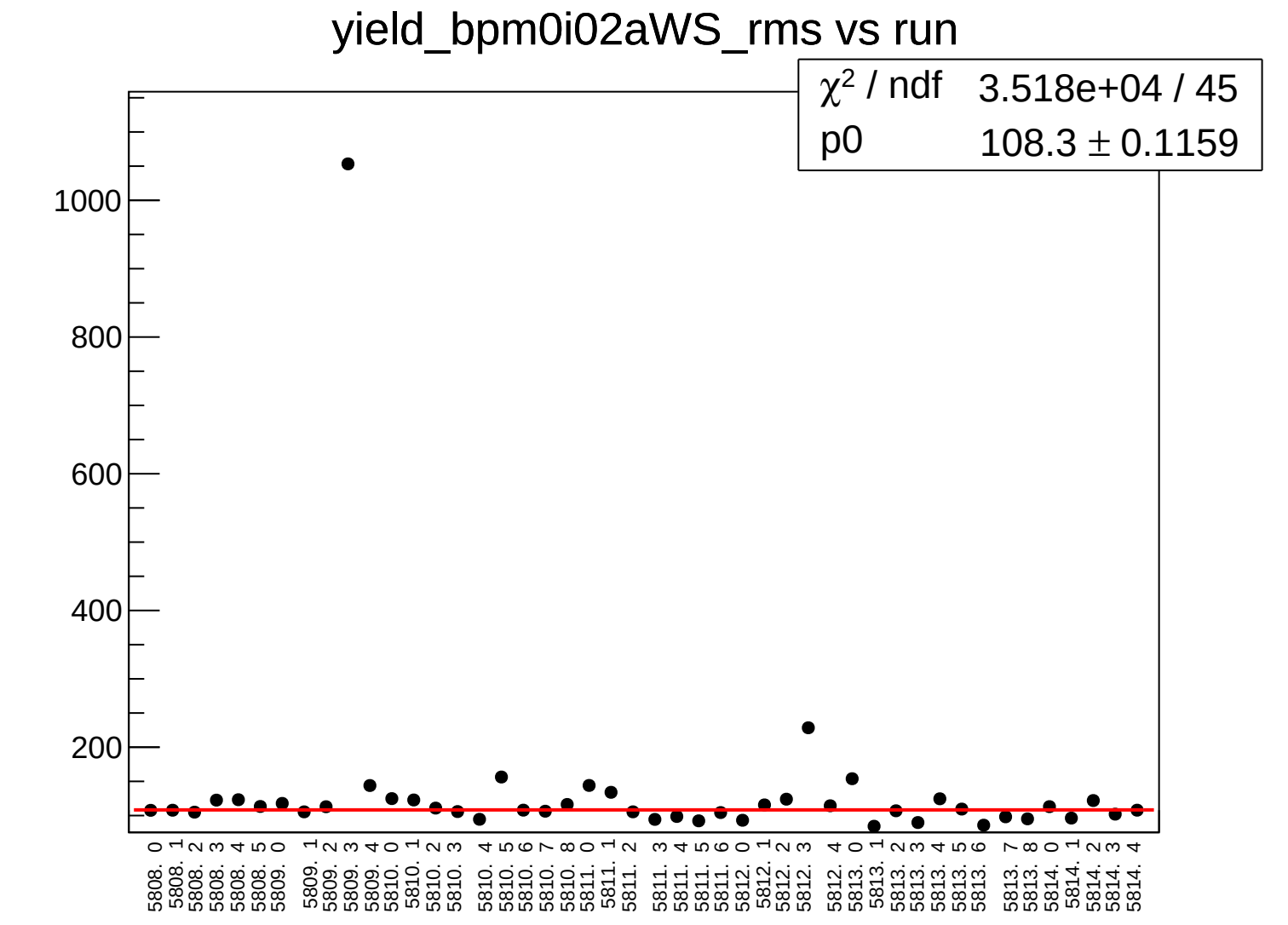

yield_bpm0r05WS_rms vs run
χ² / ndf 4.757e+04 / 45
p0 183.5 ± 0.1979
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

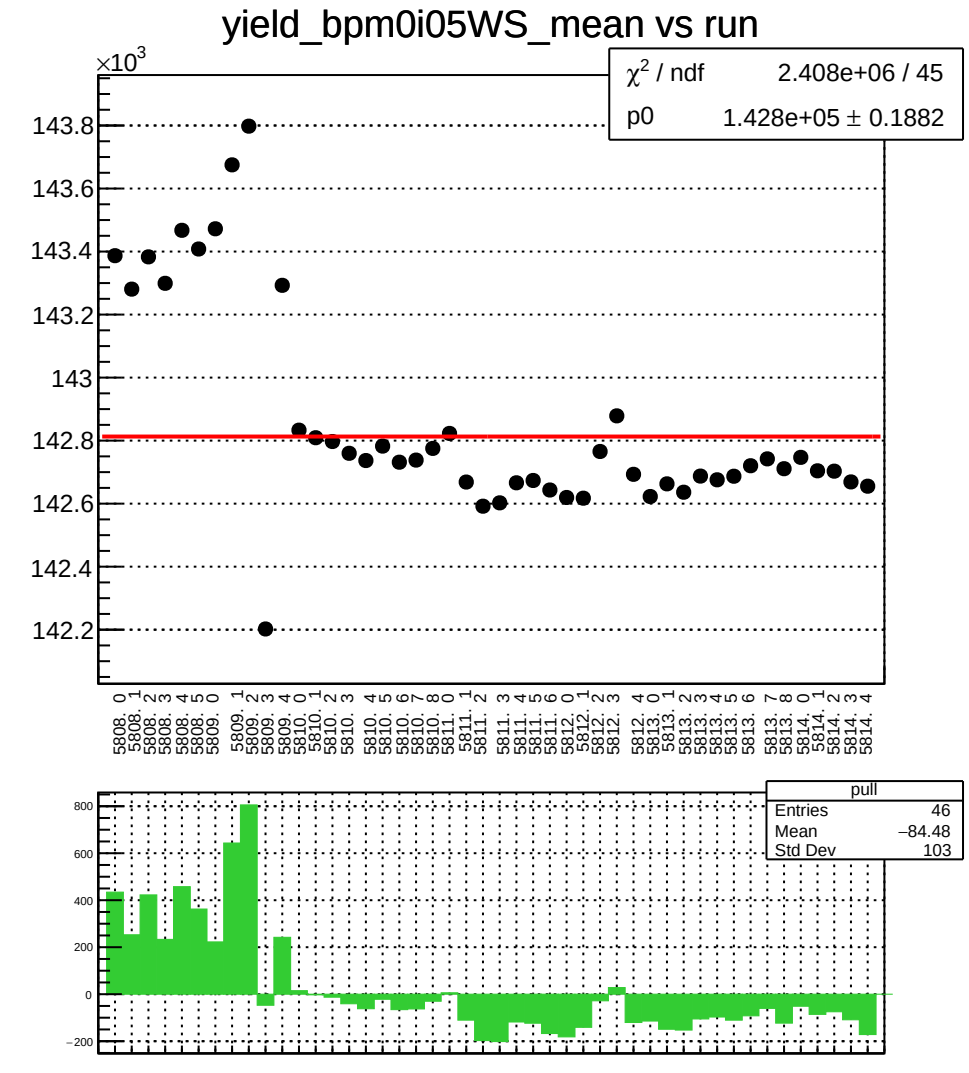

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.682e+06 / 45
p0 1.352e+05 ± 0.1388
135.5
135
134.5
134
133.5
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −7569
Std Dev 7590
600
400
200
0
−200
−400
−600
−800

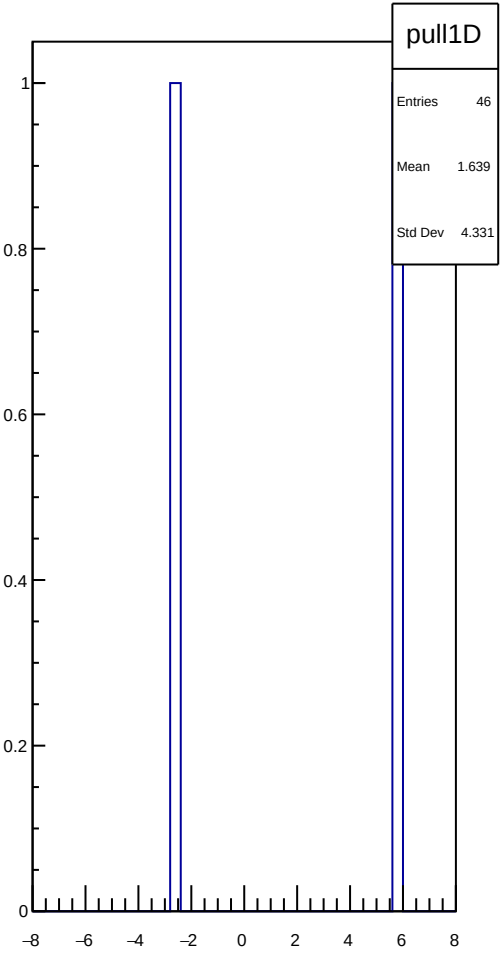

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

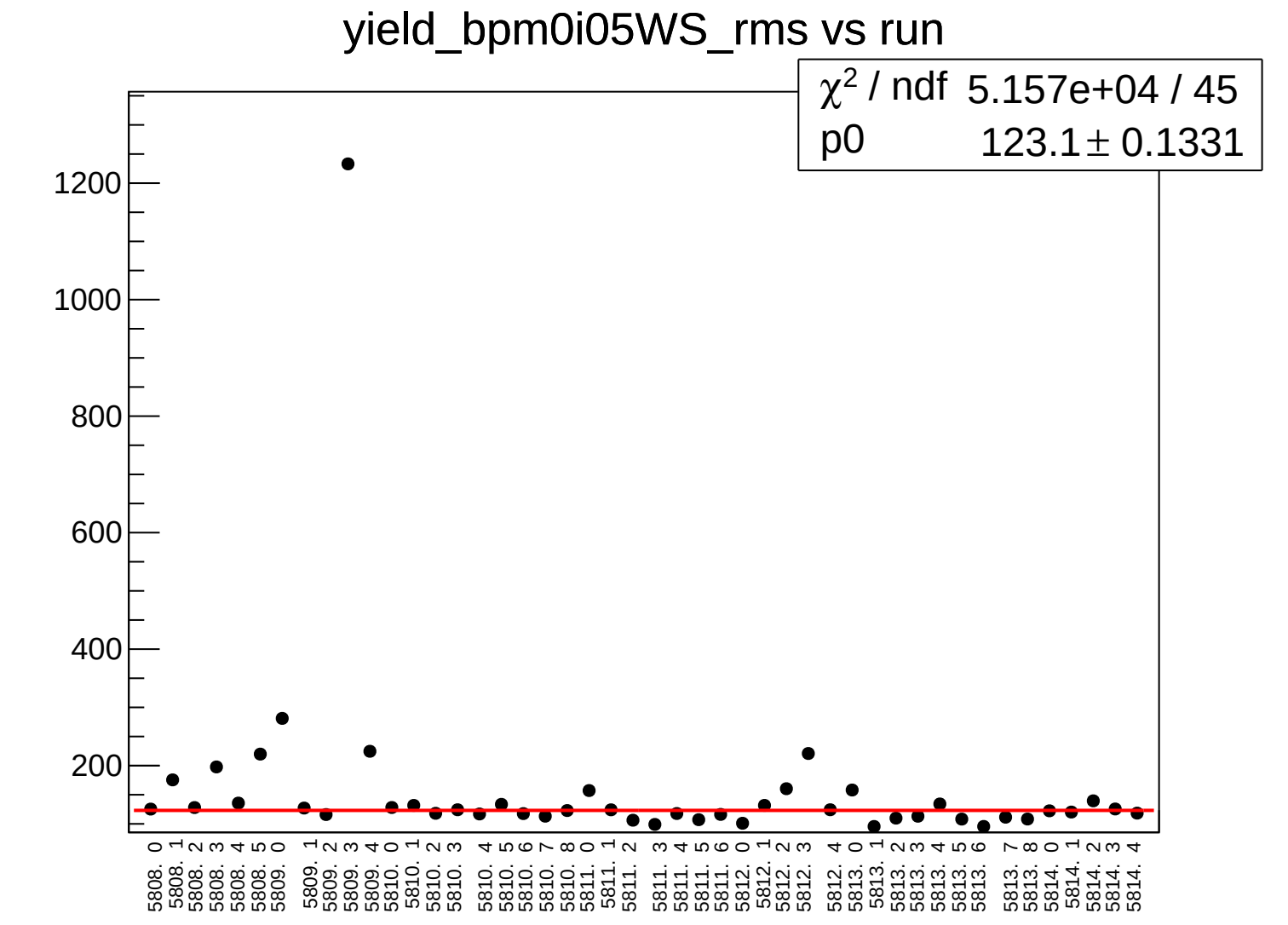

yield_bpm0i02WS_rms vs run
χ² / ndf 3.641e+04 / 45
p0 91.58 ± 0.09813
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

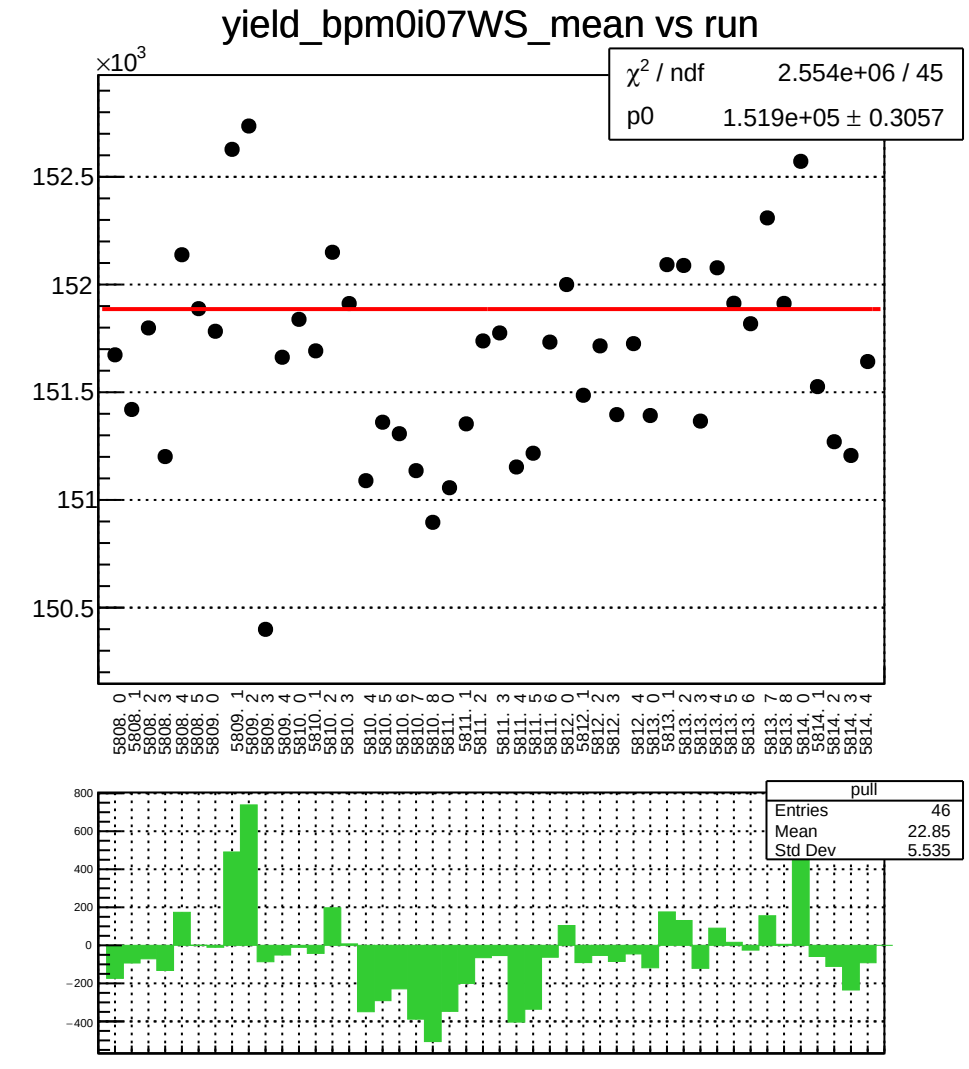

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 5.074e+06 / 45
p0 1.376e+05 ± 0.164
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −145.7
Std Dev 169.9
600
400
200
0
−200
−400
pull1D
Entries 46
Mean −5.555
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

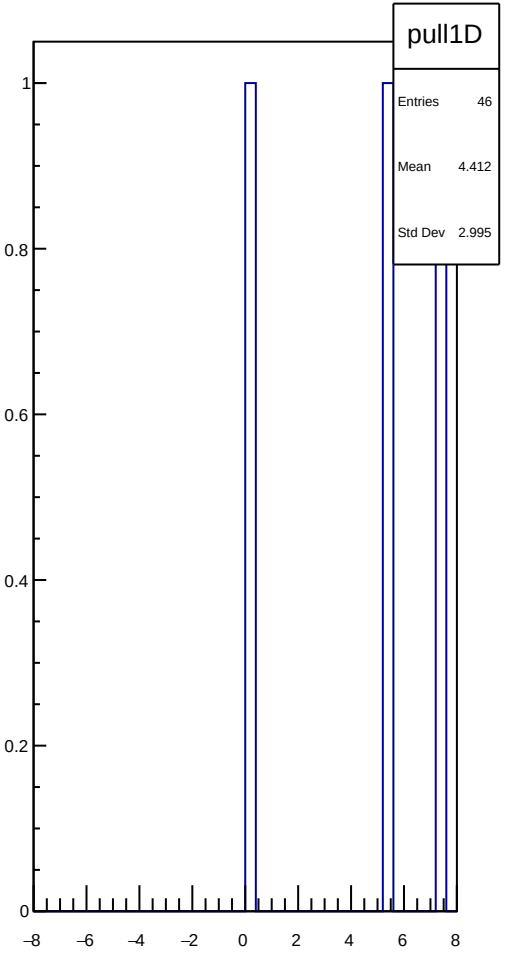

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.518e+04 / 45
p0 108.3 ± 0.1159
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

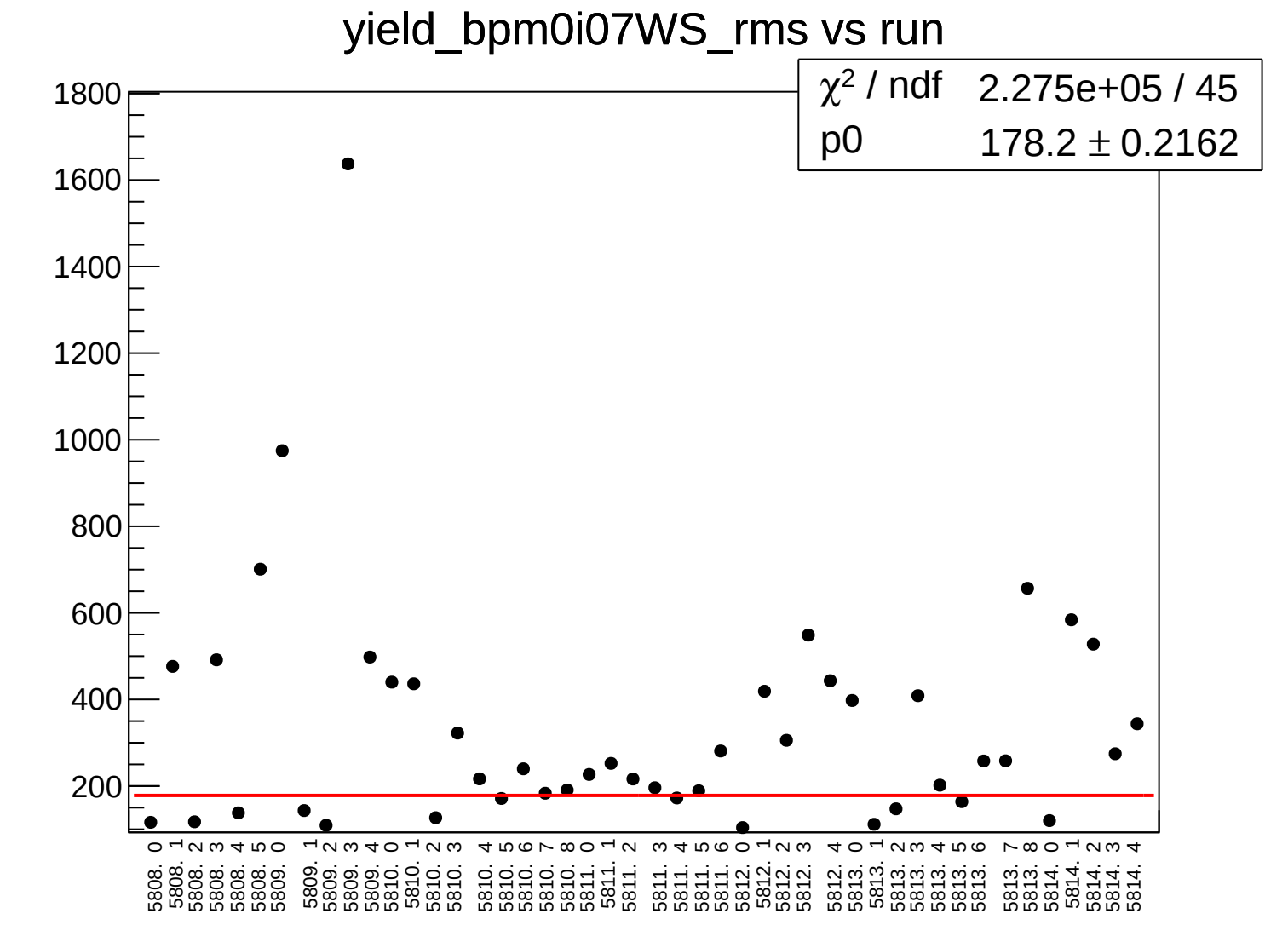

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 2.408e+06 / 45
p0 1.428e+05 ± 0.1882
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −84.48
Std Dev 103
800
600
400
200
0
−200

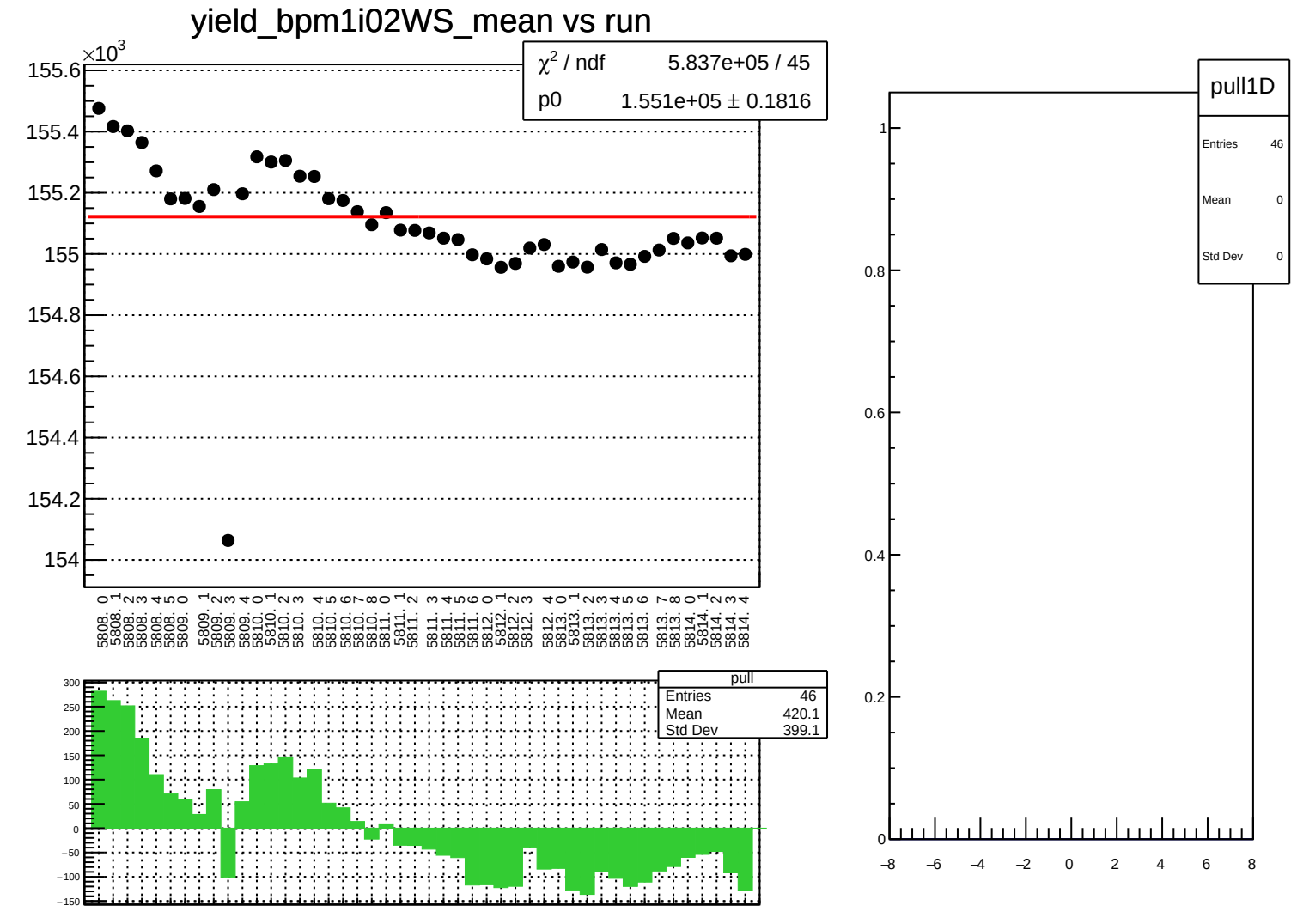

pull1D
Entries 46
Mean 1.639
Std Dev 4.331
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

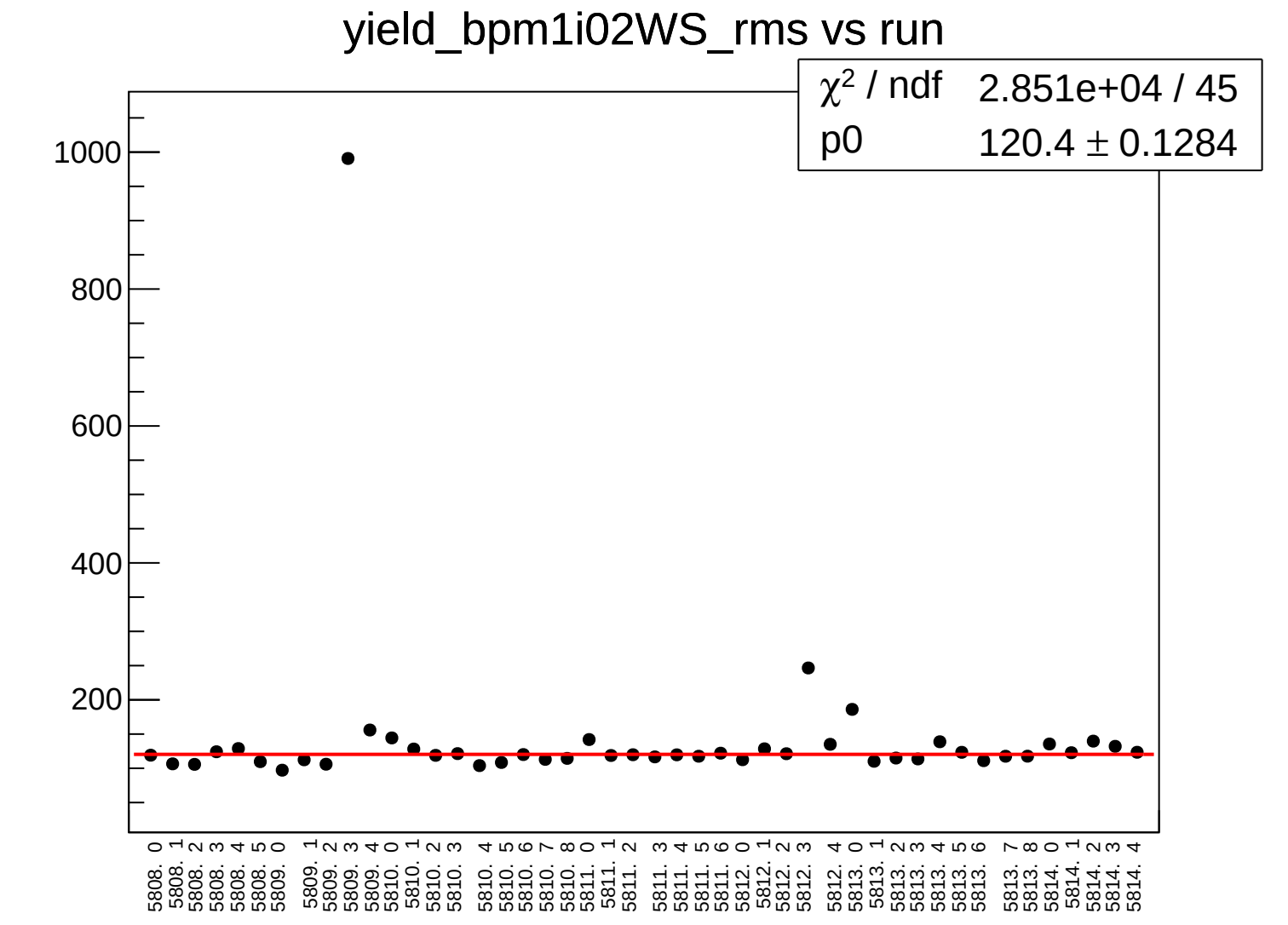

yield_bpm0i05WS_rms vs run
χ² / ndf 5.157e+04 / 45
p0 123.1 ± 0.1331
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

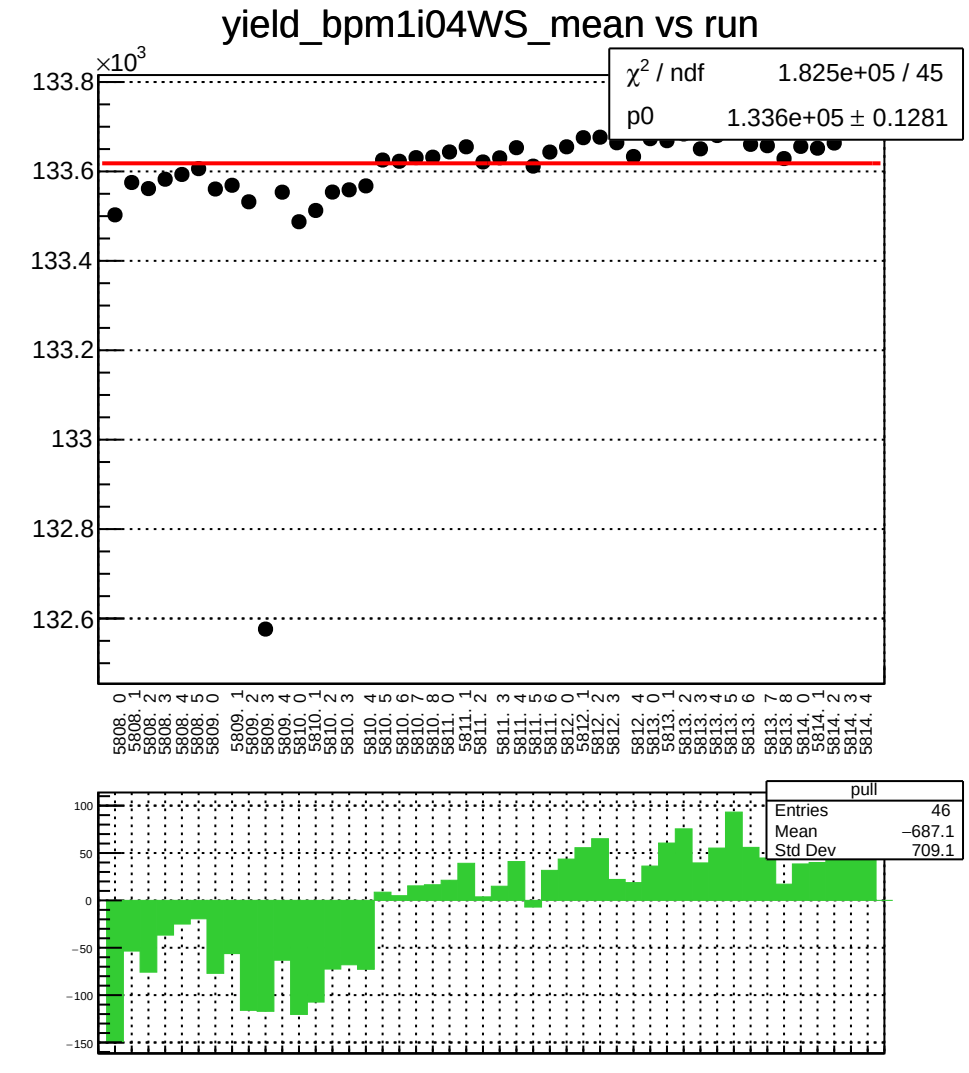

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.554e+06 / 45
p0 1.519e+05 ± 0.3057
152.5
152
151.5
151
150.5
pull
Entries 46
Mean 22.85
Std Dev 5.535
800
600
400
200
0
−200
−400

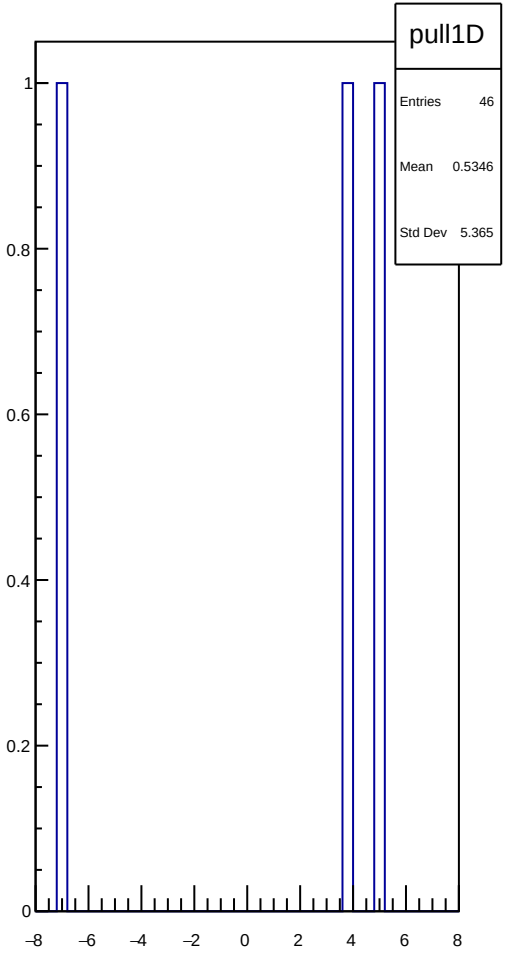

pull1D
Entries 46
Mean 4.412
Std Dev 2.995
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

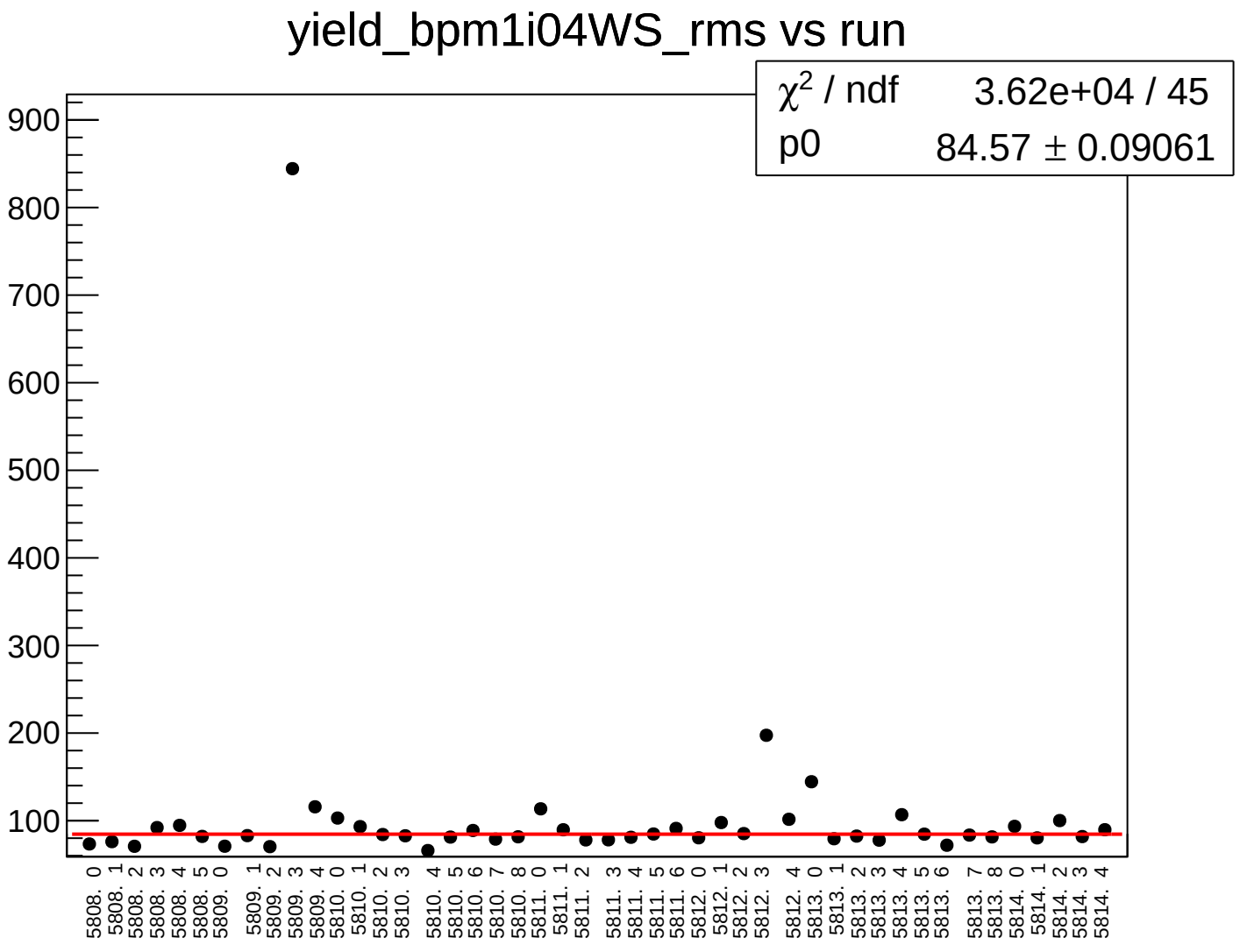

yield_bpm0i07WS_rms vs run
χ² / ndf 2.275e+05 / 45
p0 178.2 ± 0.2162
1800
1600
1400
1200
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

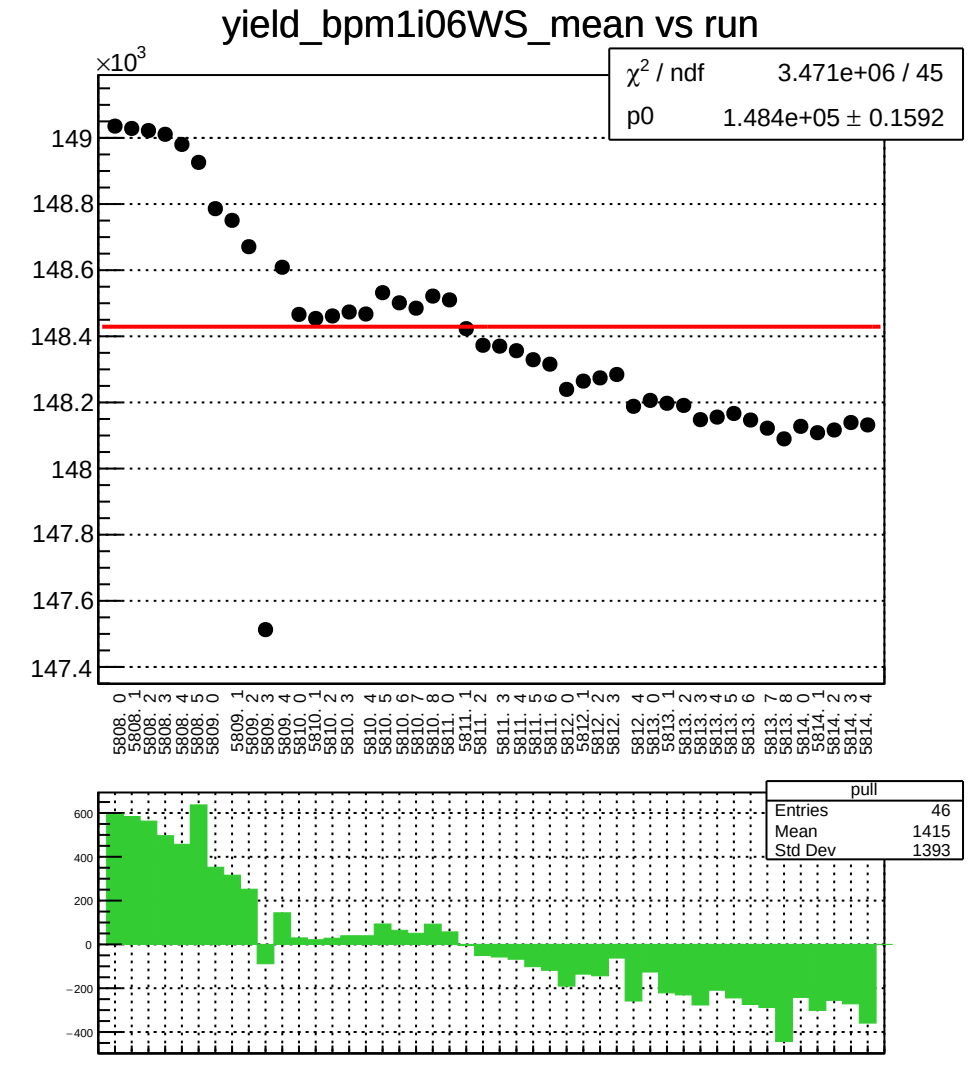

yield_bpm1i02WS_mean vs run
×10^3
155.6
155.4
155.2
155
154.8
154.6
154.4
154.2
154
χ² / ndf 5.837e+05 / 45
p0 1.551e+05 ± 0.1816
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 420.1
Std Dev 399.1
300
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

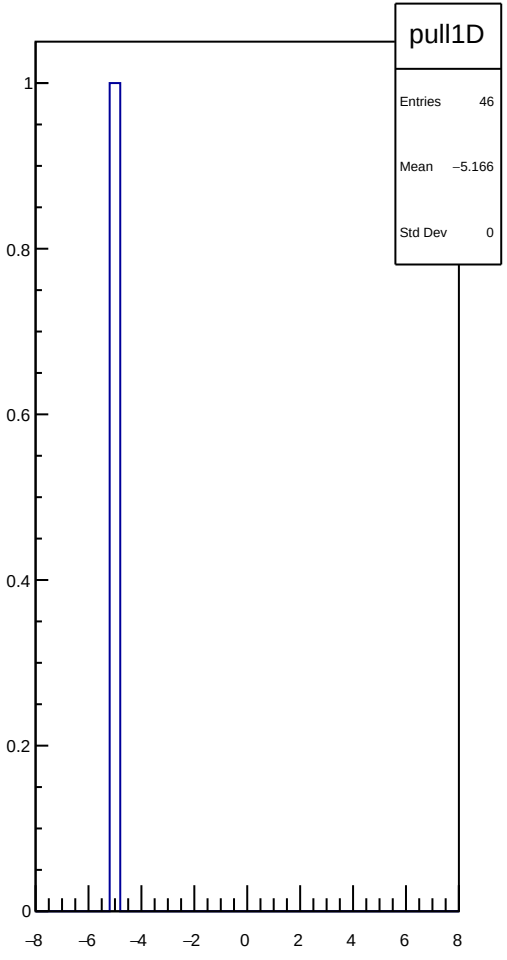

yield_bpm1i02WS_rms vs run
χ² / ndf 2.851e+04 / 45
p0 120.4 ± 0.1284
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

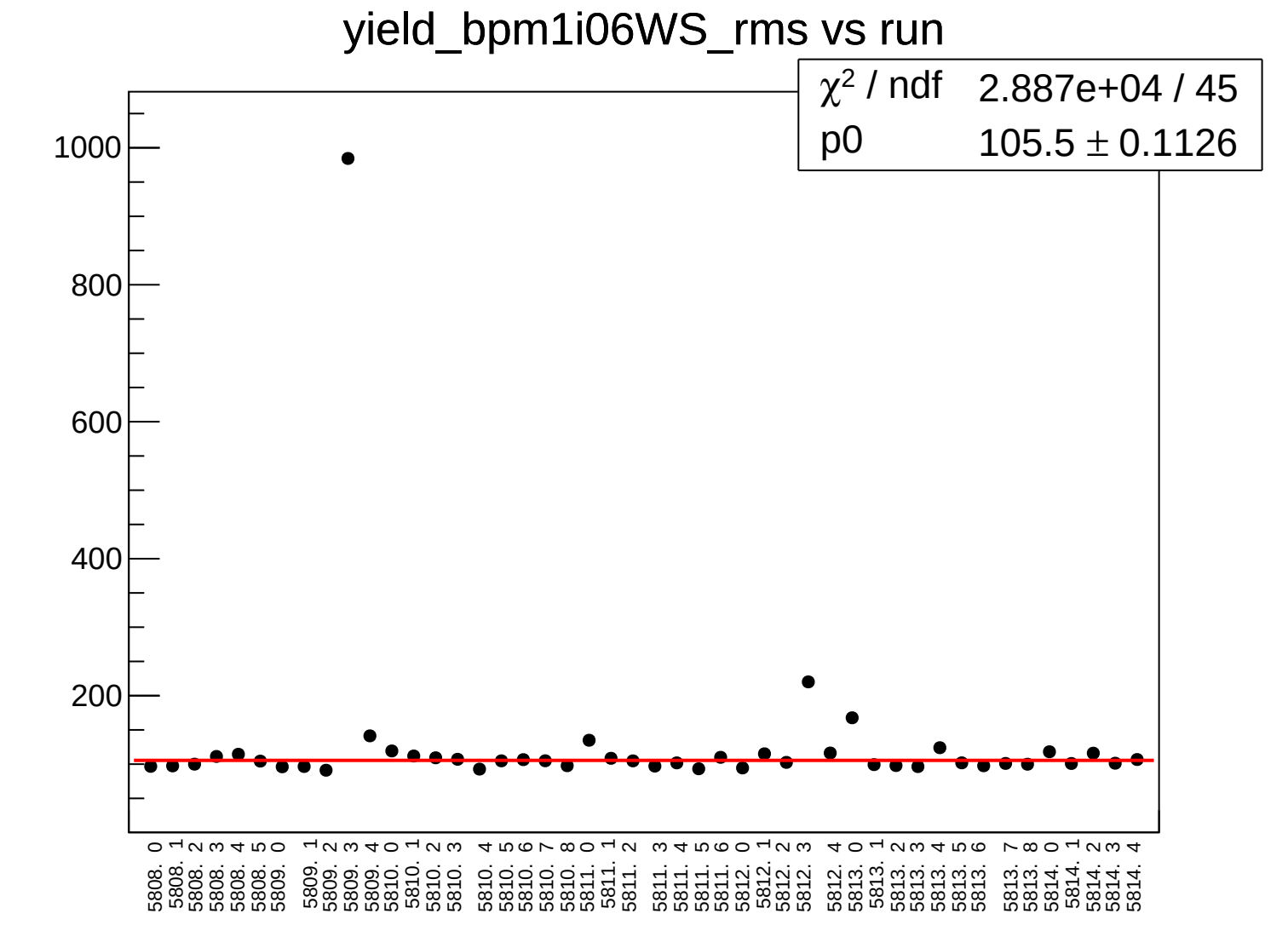

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.825e+05 / 45
p0 1.336e+05 ± 0.1281
133.8
133.6
133.4
133.2
133
132.8
132.6
pull
Entries 46
Mean −687.1
Std Dev 709.1
100
50
0
−50
−100
−150

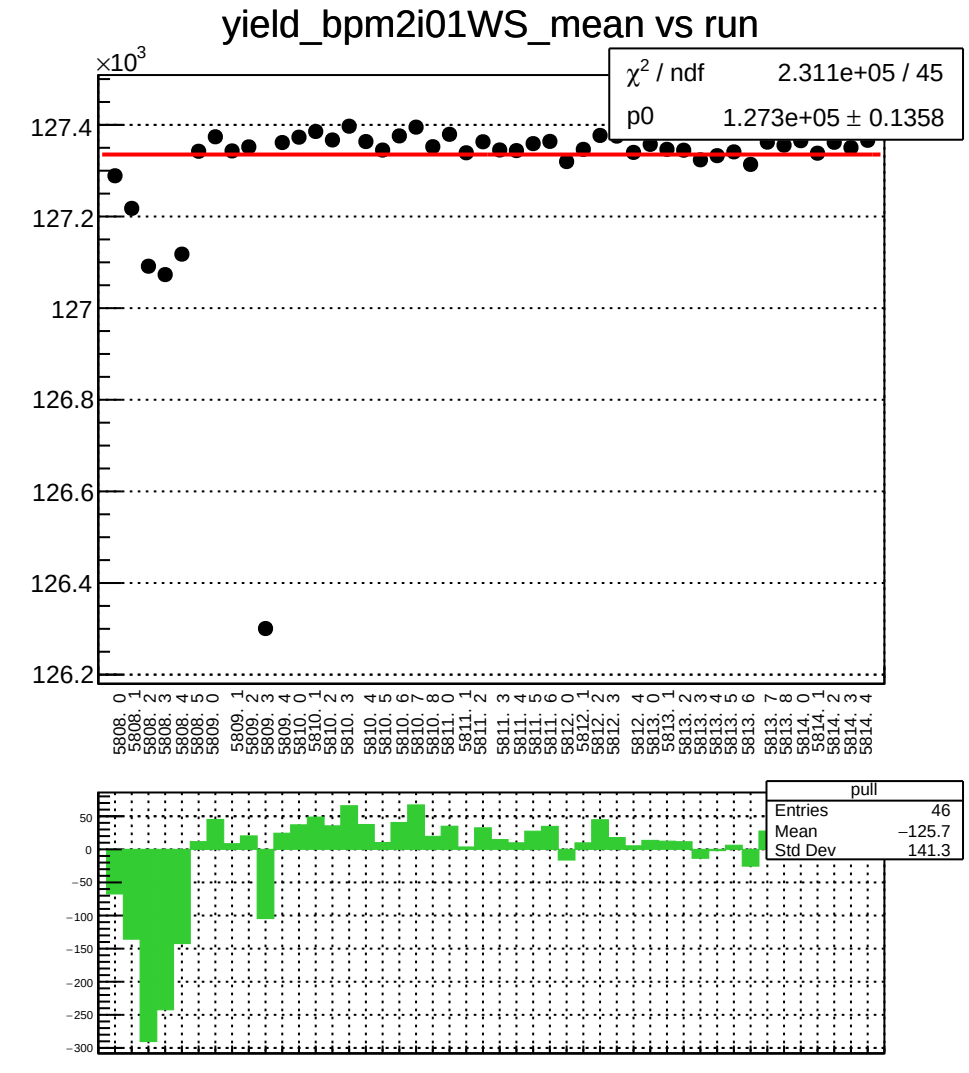

pull1D
Entries 46
Mean 0.5346
Std Dev 5.365
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

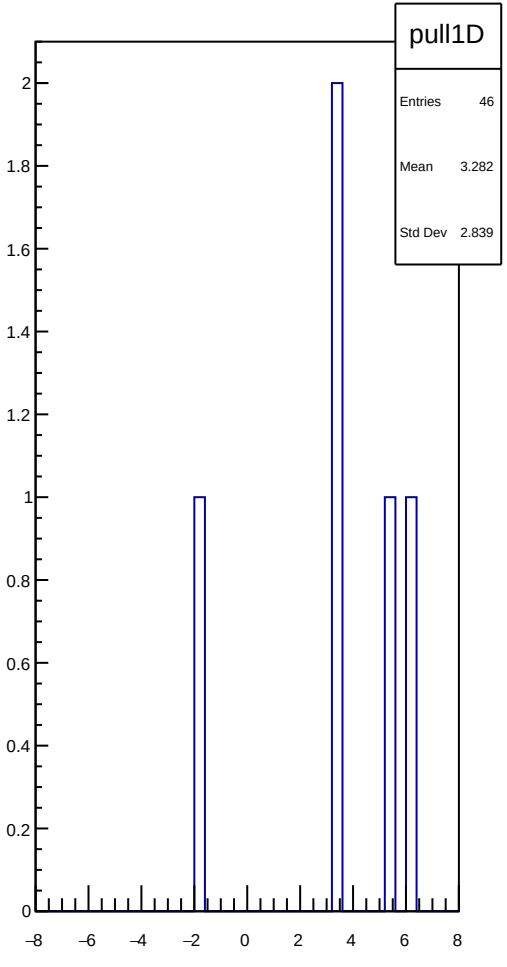

yield_bpm1i04WS_rms vs run
χ^2 / ndf 3.62e+04 / 45
p0 84.57 ± 0.09061
900
800
700
600
500
400
300
200
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

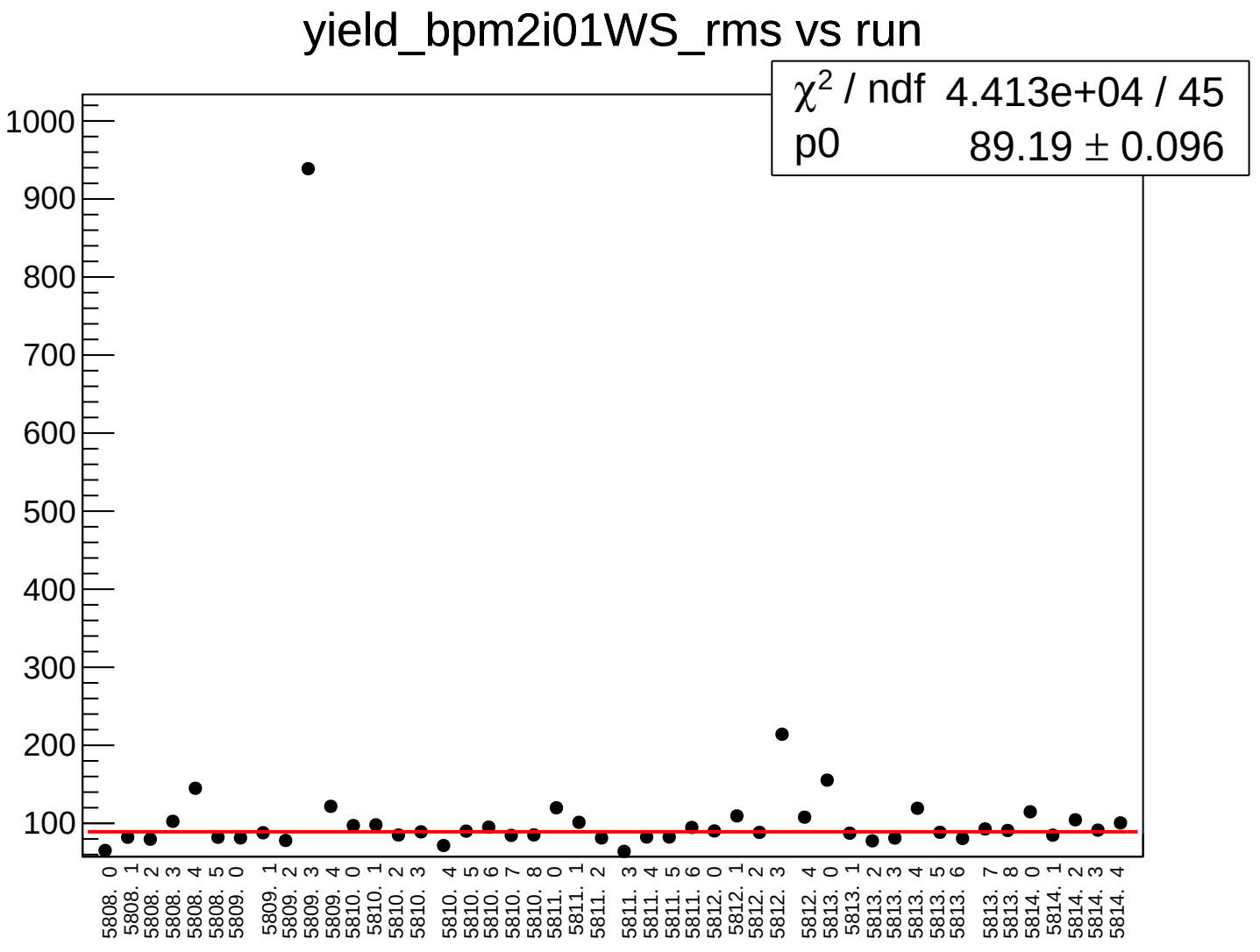

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 3.471e+06 / 45
p0 1.484e+05 ± 0.1592
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 1415
Std Dev 1393
600
400
200
0
−200
−400

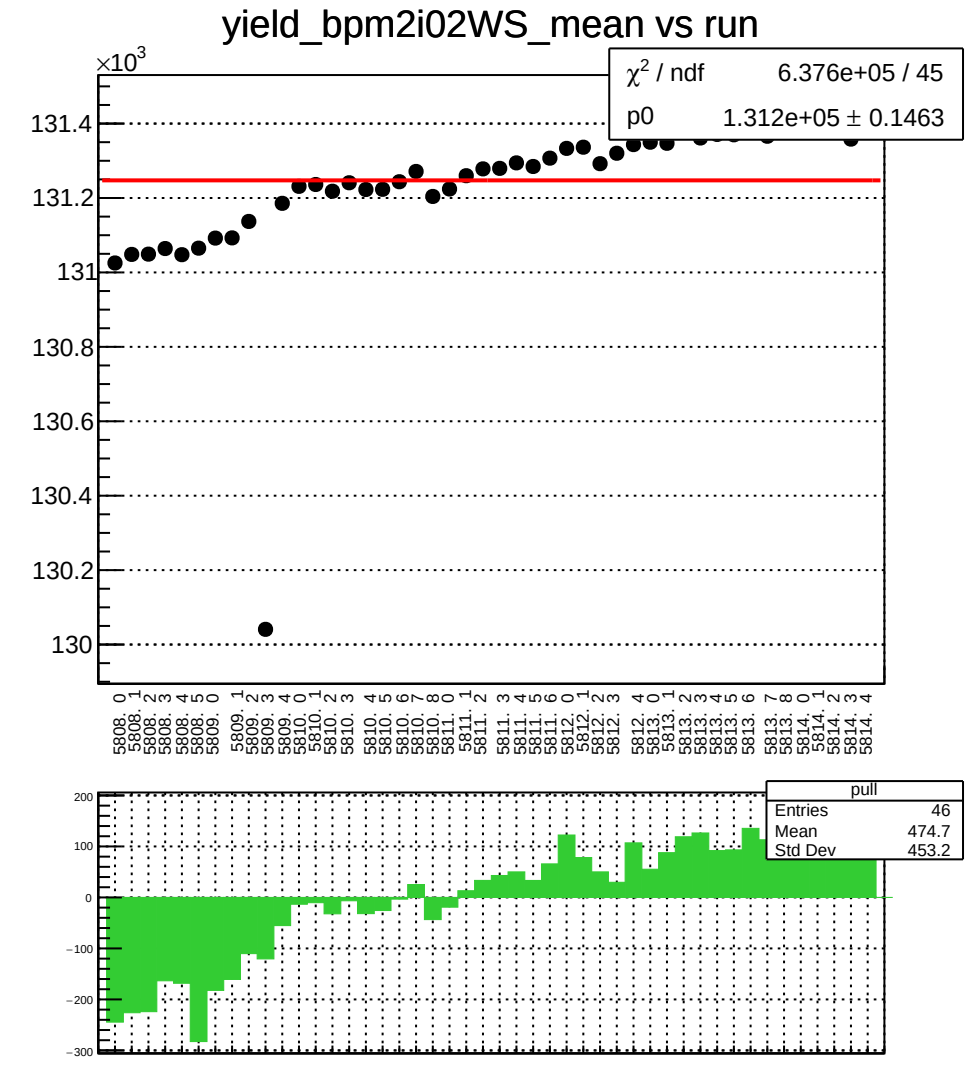

pull1D
Entries 46
Mean −5.166
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

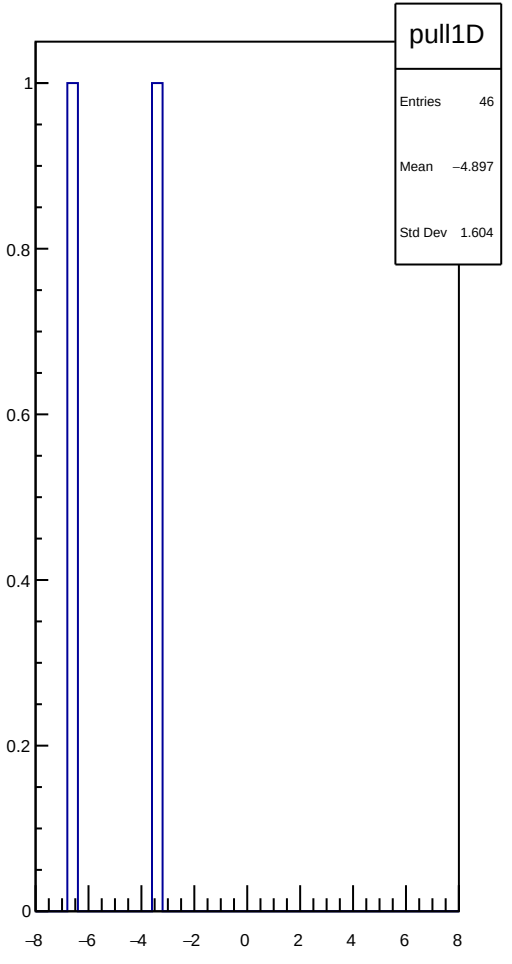

yield_bpm1i06WS_rms vs run
χ² / ndf 2.887e+04 / 45
p0 105.5 ± 0.1126
1000
800
600
400
200
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

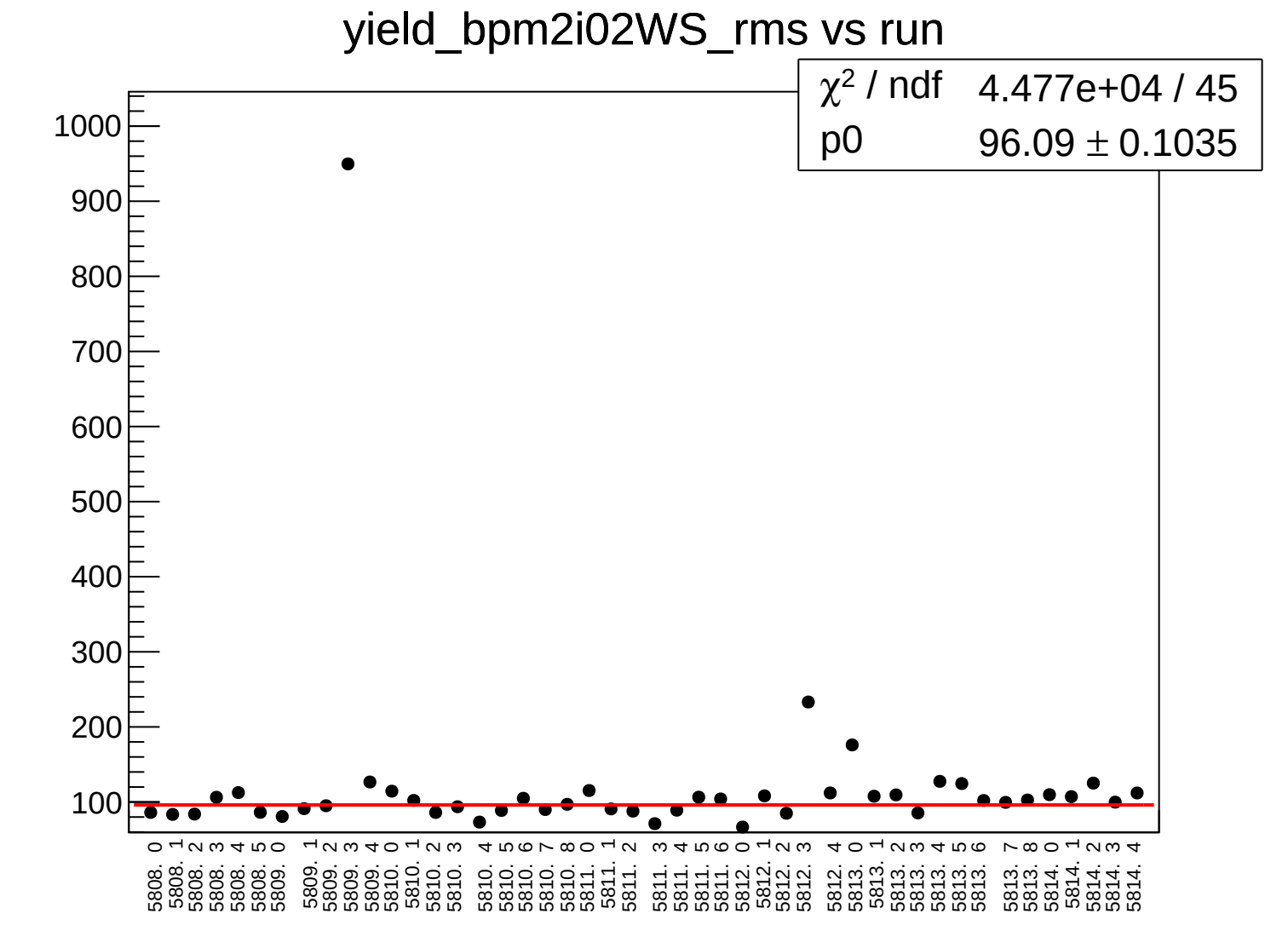

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.311e+05 / 45
p0 1.273e+05 ± 0.1358
127.4
127.2
127
126.8
126.6
126.4
126.2
pull
Entries 46
Mean −125.7
Std Dev 141.3
50
0
−50
−100
−150
−200
−250
−300

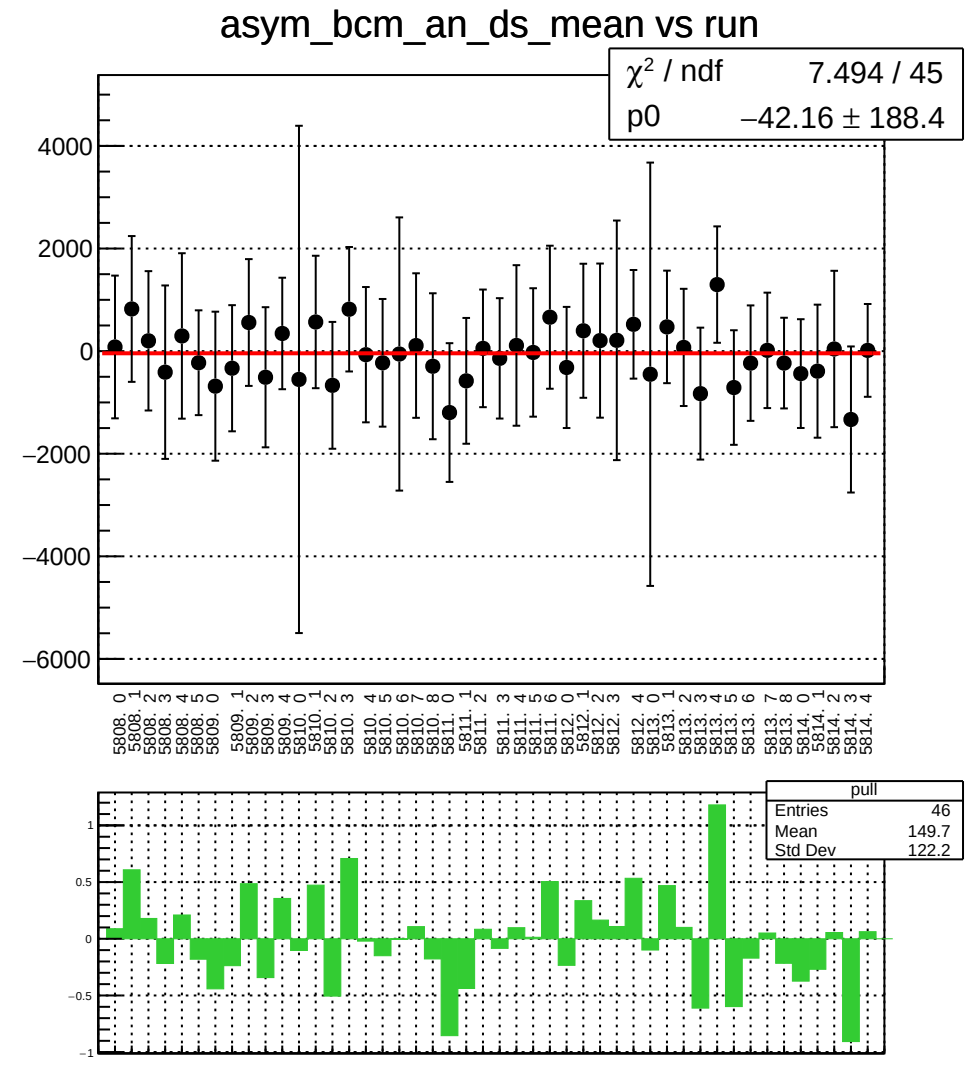

pull1D
Entries 46
Mean 3.282
Std Dev 2.839
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

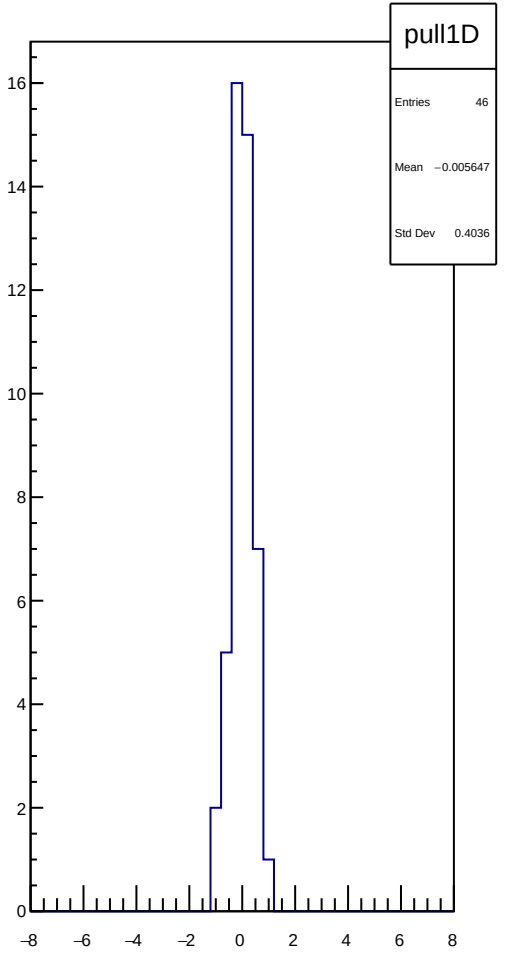

yield_bpm2i01WS_rms vs run
χ² / ndf 4.413e+04 / 45
p0 89.19 ± 0.096
1000
900
800
700
600
500
400
300
200
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

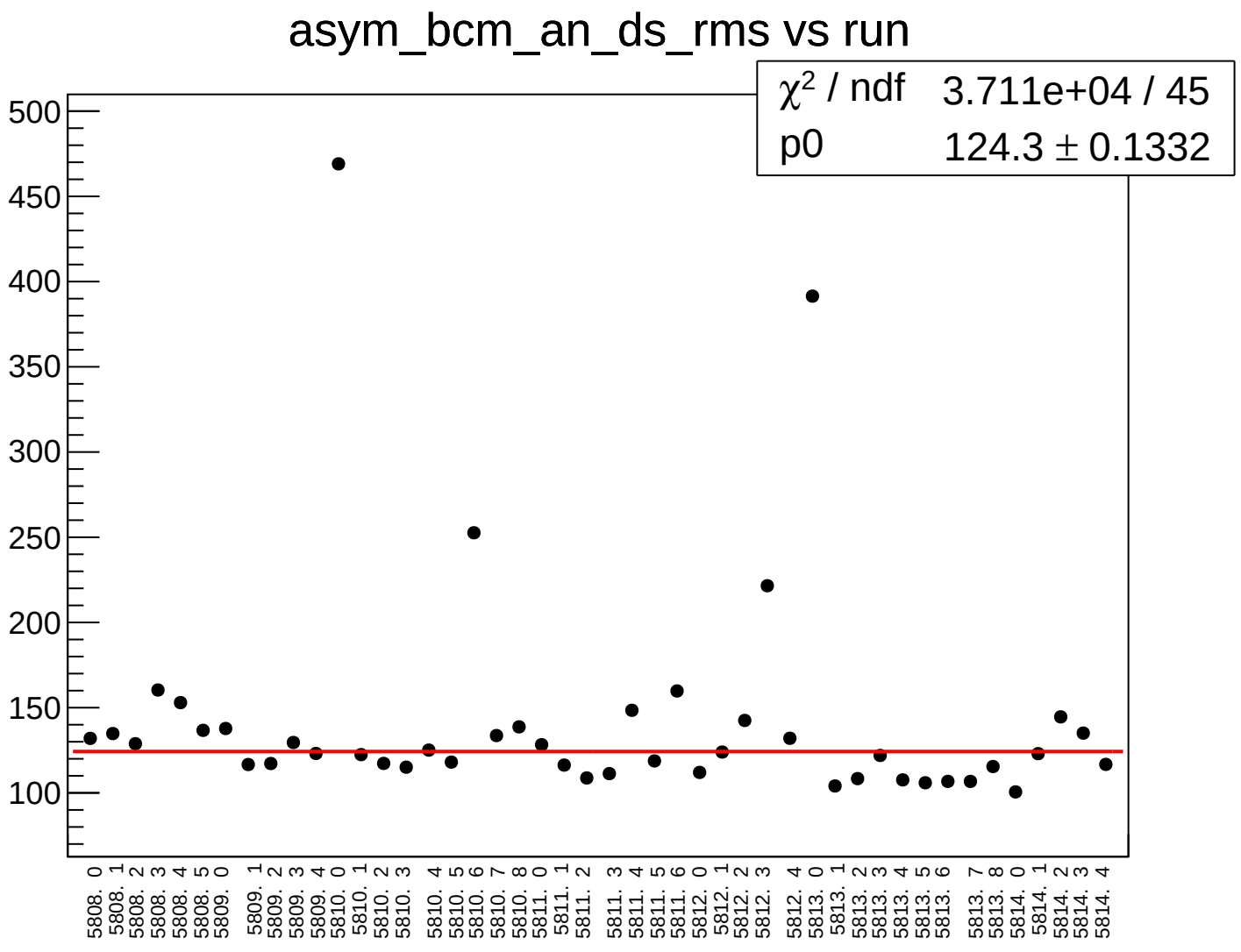

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 6.376e+05 / 45
p0 1.312e+05 ± 0.1463
131.4
131.2
131
130.8
130.6
130.4
130.2
130
pull
Entries 46
Mean 474.7
Std Dev 453.2
200
100
0
−100
−200
−300

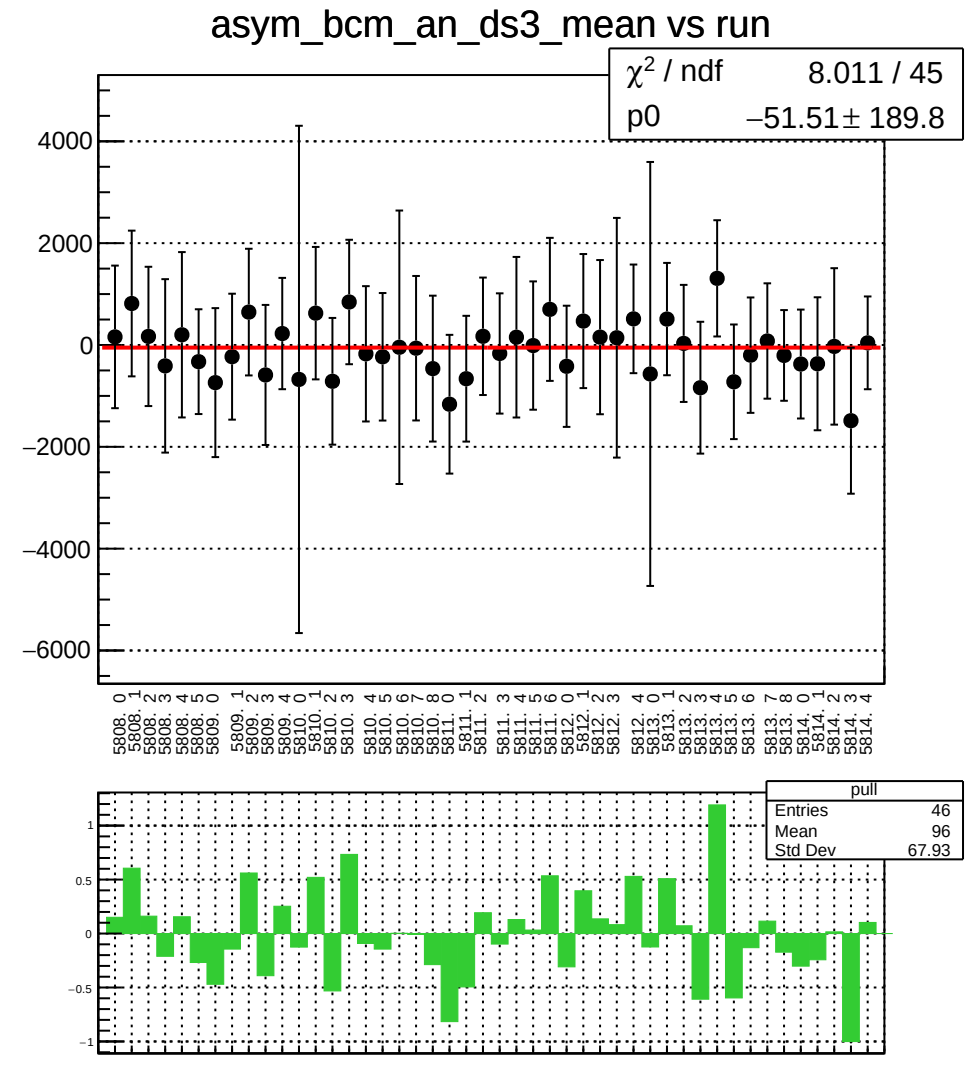

pull1D
Entries 46
Mean −4.897
Std Dev 1.604
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

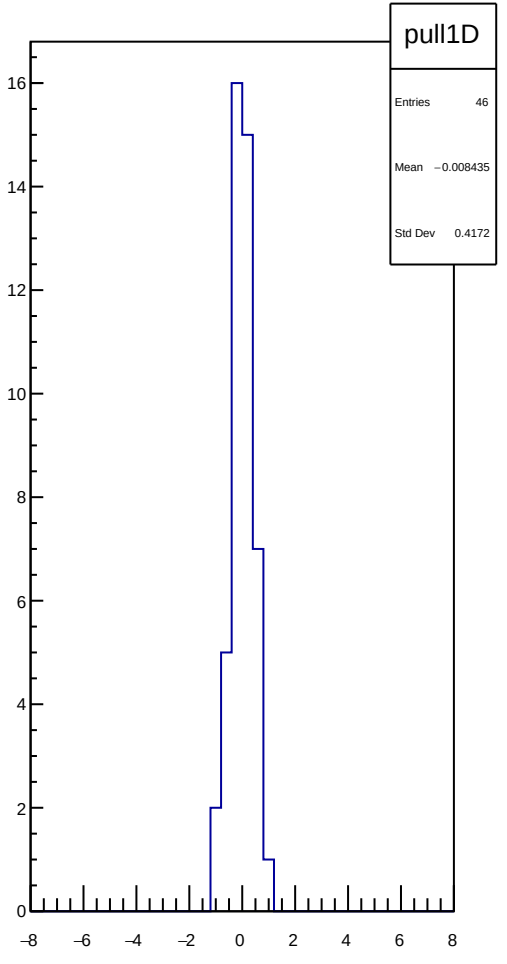

yield_bpm2i02WS_rms vs run
χ² / ndf 4.477e+04 / 45
p0 96.09 ± 0.1035
1000
900
800
700
600
500
400
300
200
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

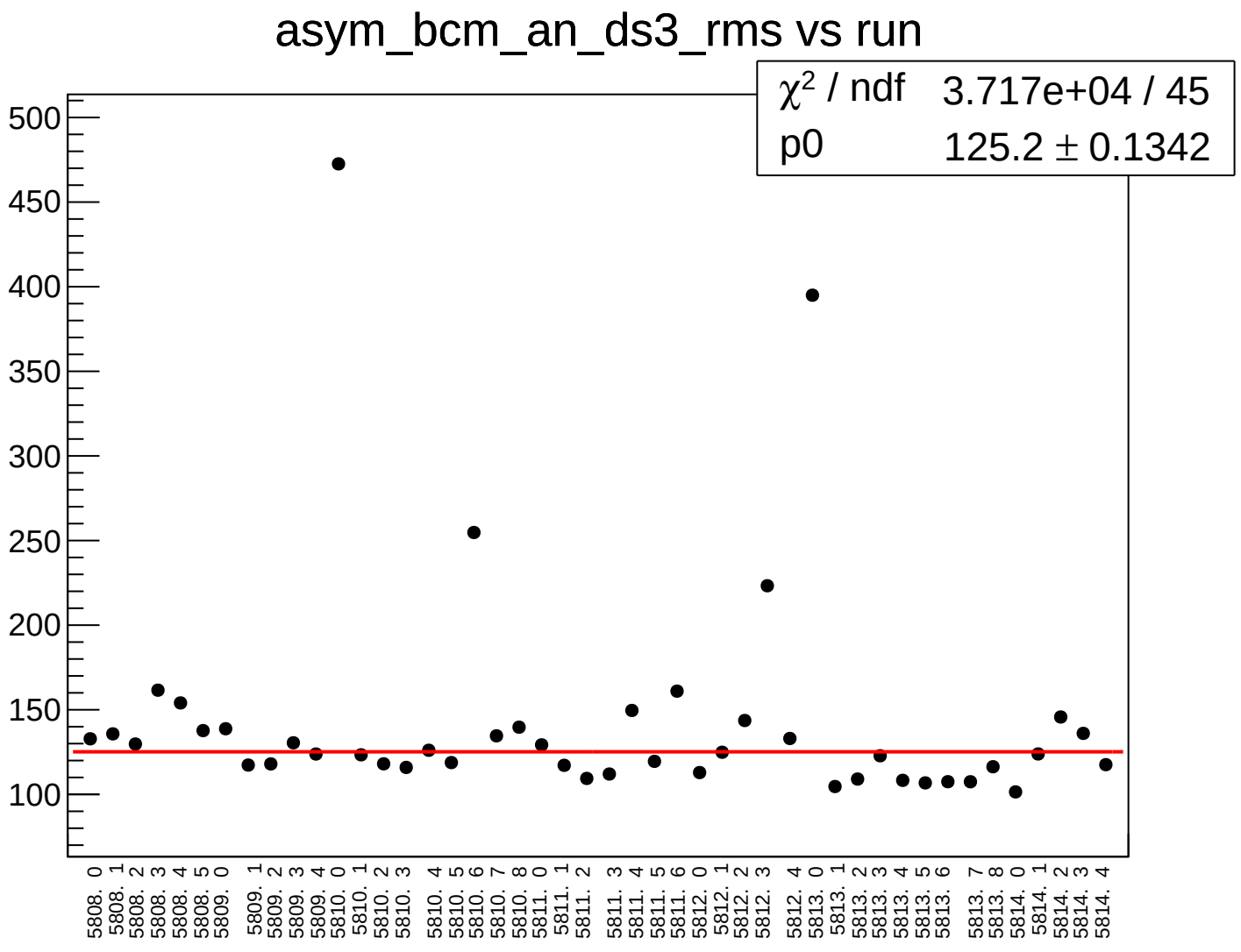

asym_bcm_an_ds_mean vs run
χ² / ndf 7.494 / 45
p0 −42.16 ± 188.4
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 149.7
Std Dev 122.2
1
0.5
0
−0.5
−1

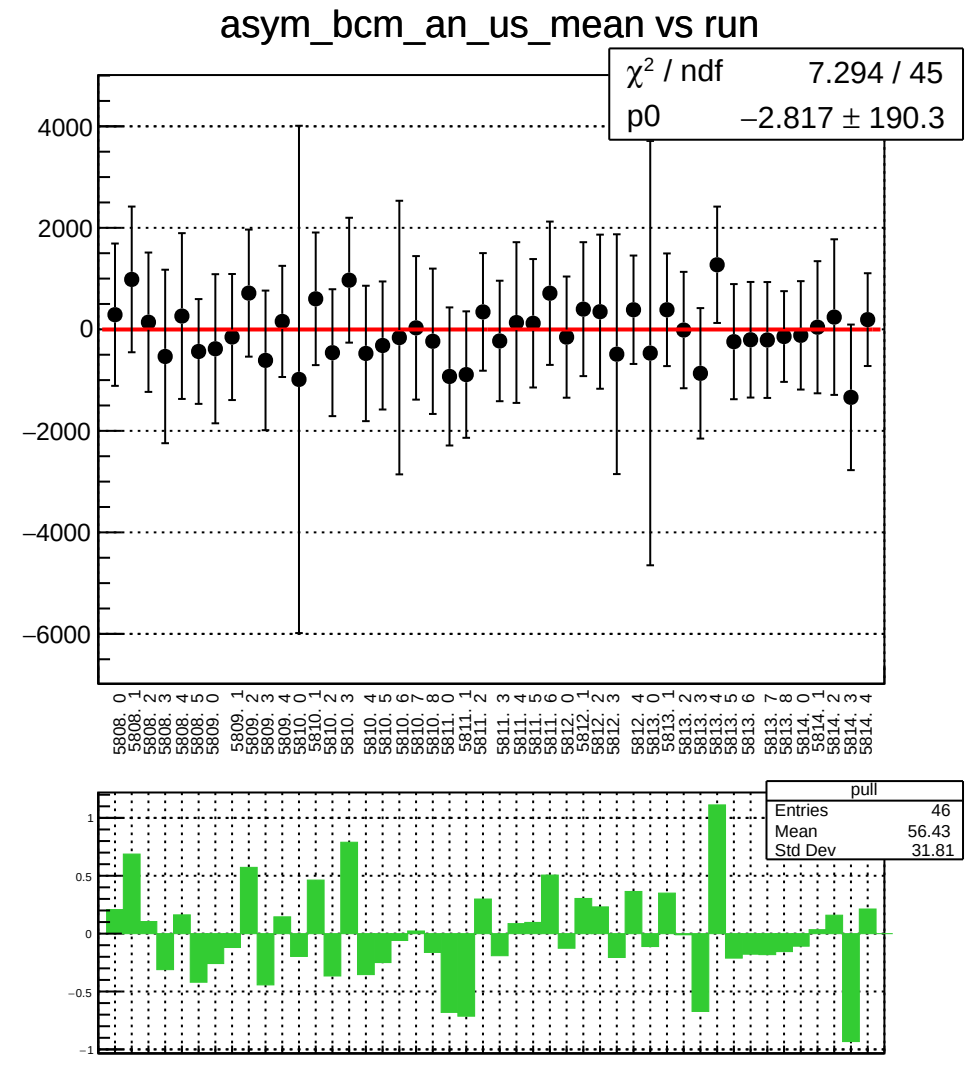

pull1D
Entries 46
Mean −0.005647
Std Dev 0.4036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

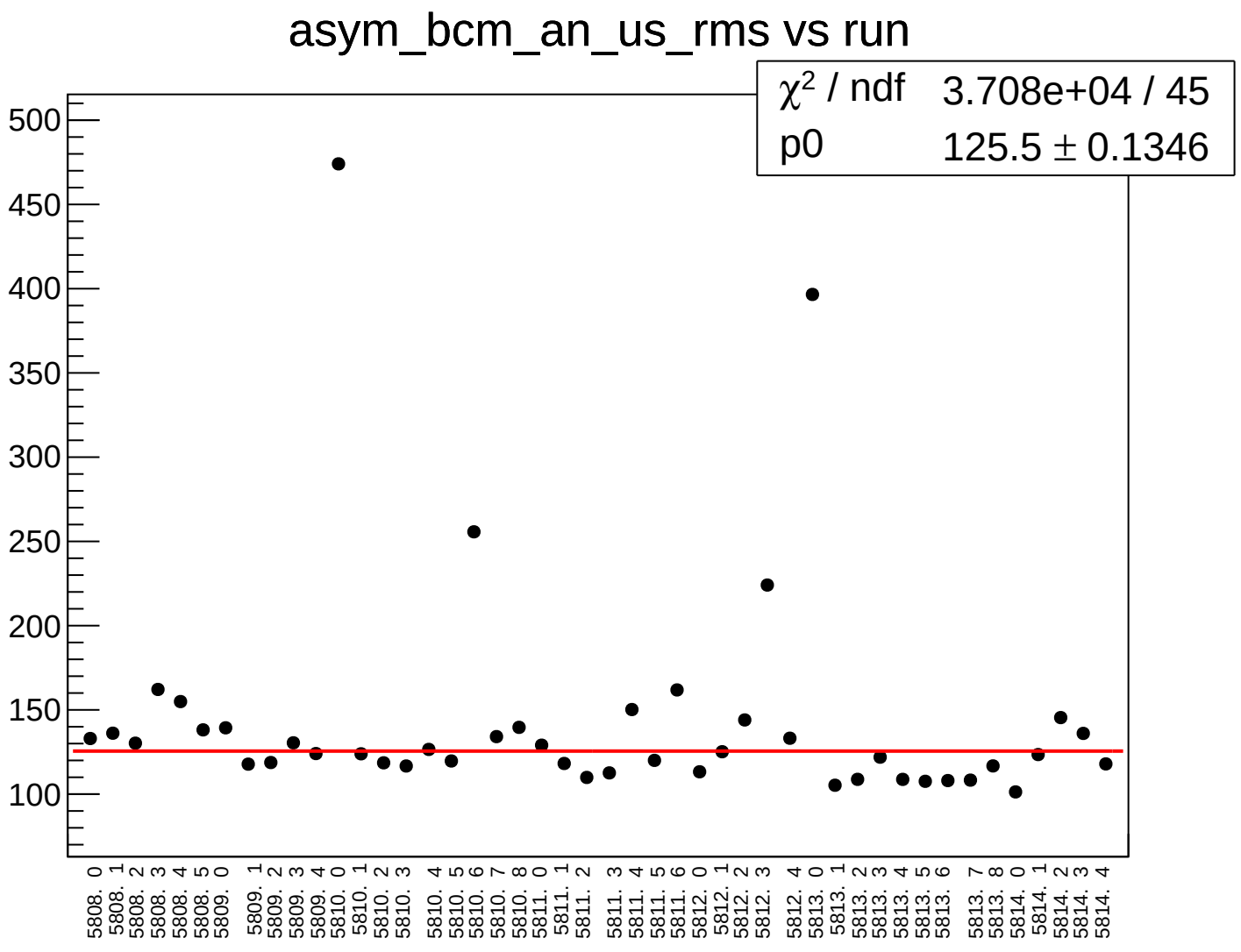

asym_bcm_an_ds_rms vs run
χ² / ndf 3.711e+04 / 45
p0 124.3 ± 0.1332
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

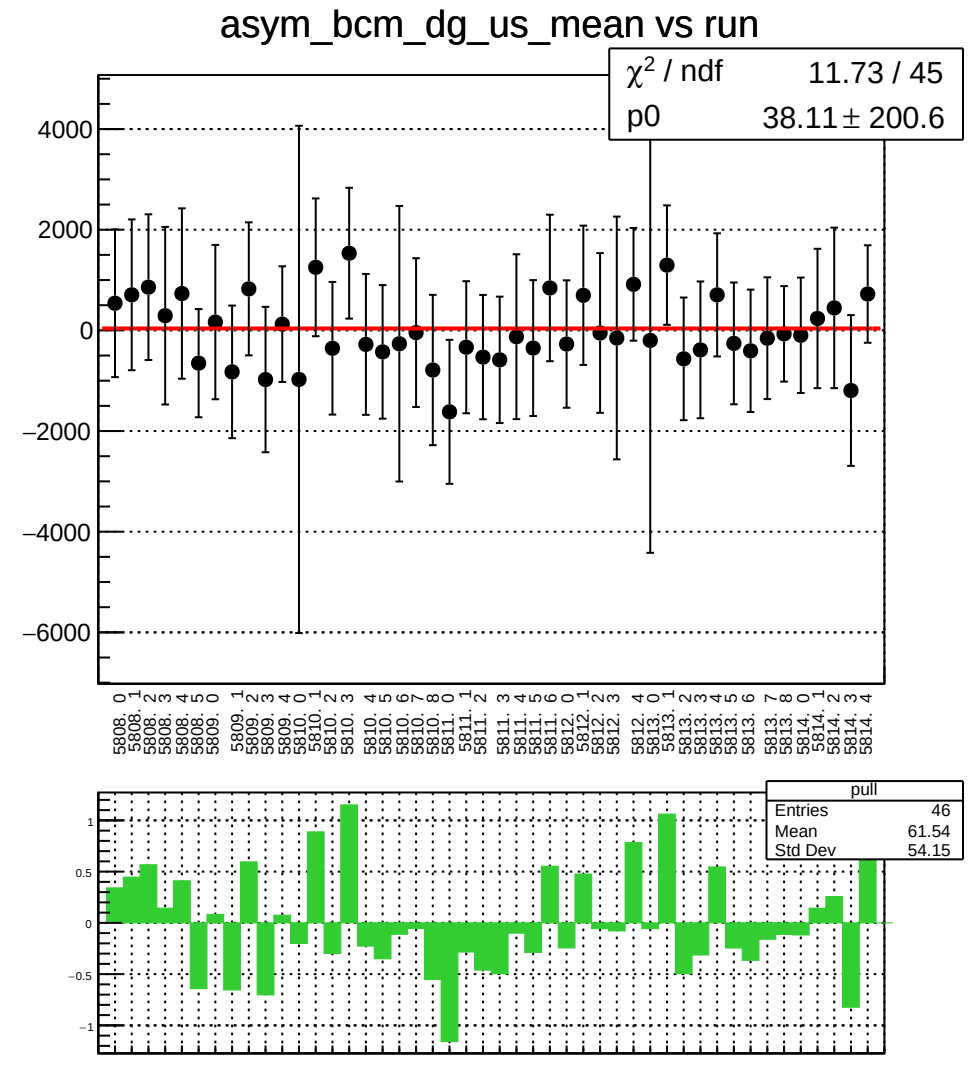

asym_bcm_an_ds3_mean vs run
χ² / ndf 8.011 / 45
p0 −51.51 ± 189.8
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 96
Std Dev 67.93
1
0.5
0
−0.5
−1

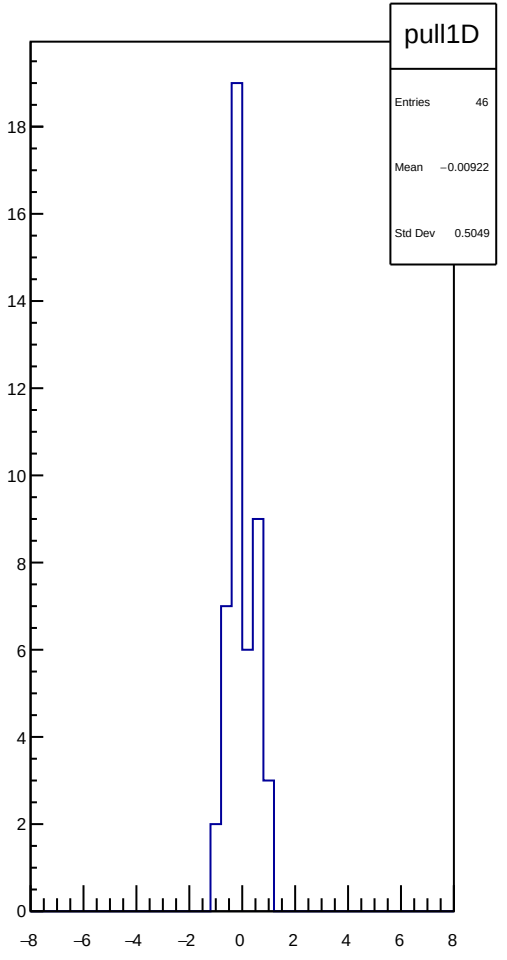

pull1D
Entries 46
Mean −0.008435
Std Dev 0.4172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

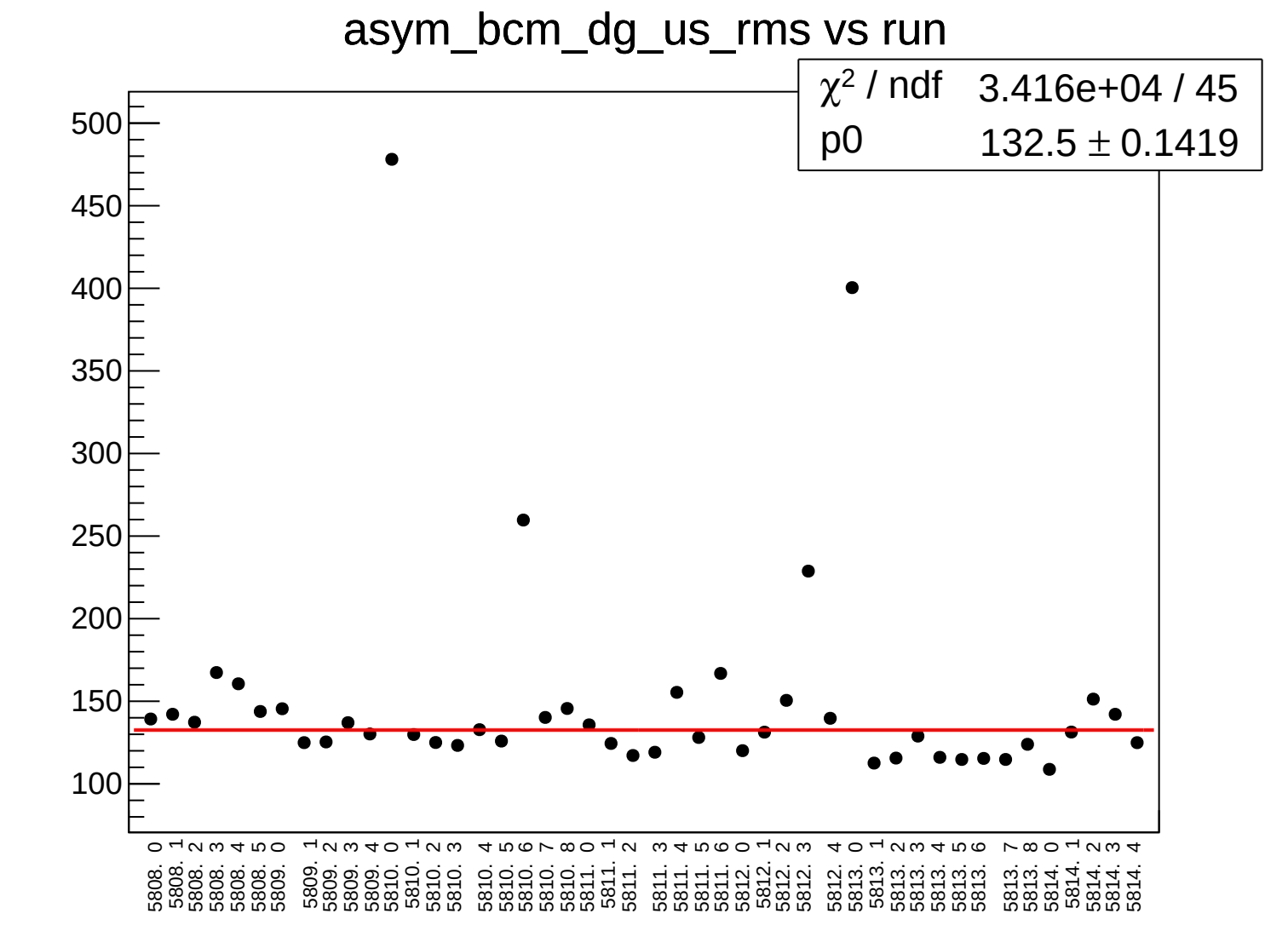

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.717e+04 / 45
p0 125.2 ± 0.1342
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

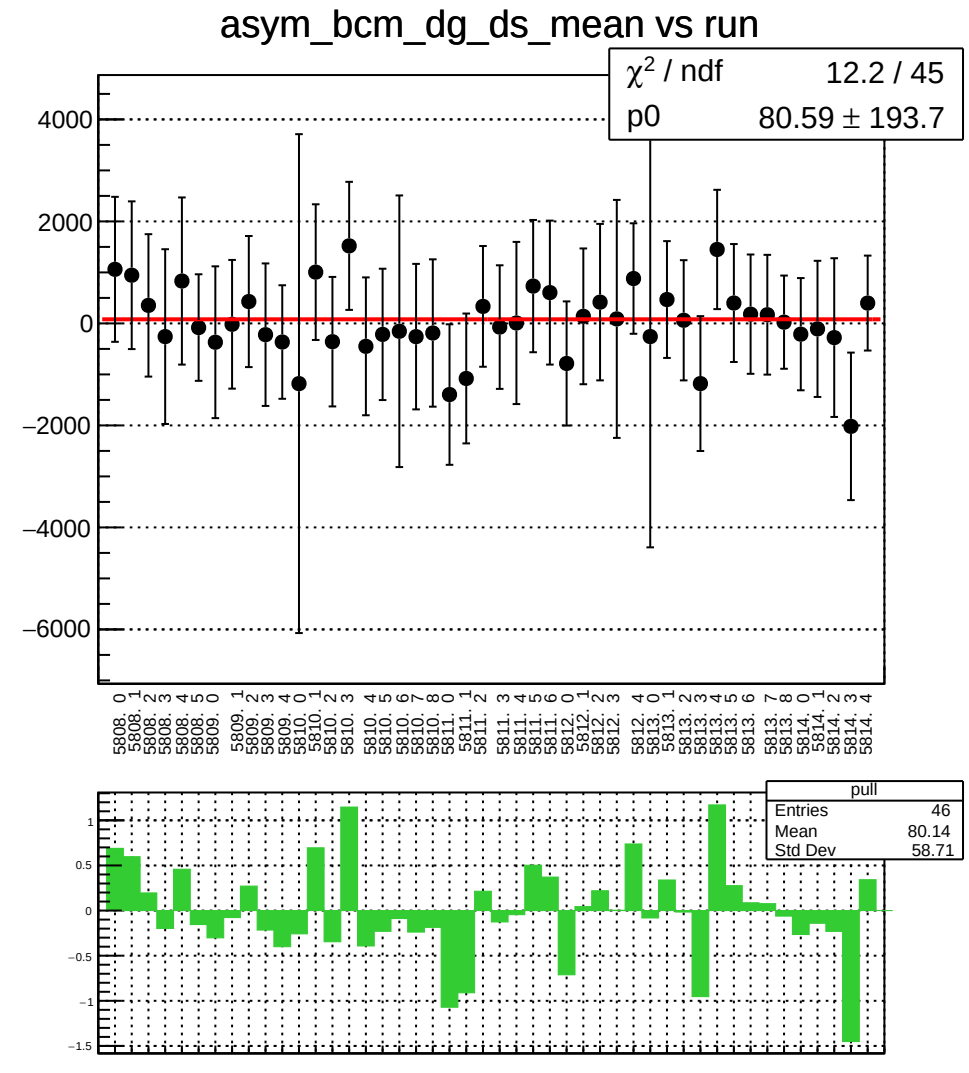

asym_bcm_an_us_mean vs run
χ² / ndf 7.294 / 45
p0 −2.817 ± 190.3
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 56.43
Std Dev 31.81
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01098
Std Dev 0.3981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

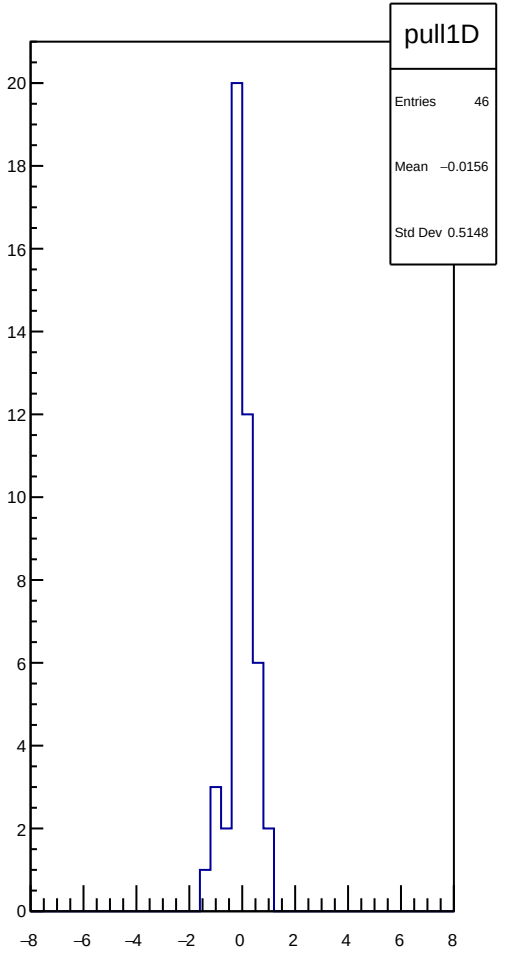

asym_bcm_an_us_rms vs run
χ² / ndf 3.708e+04 / 45
p0 125.5 ± 0.1346
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

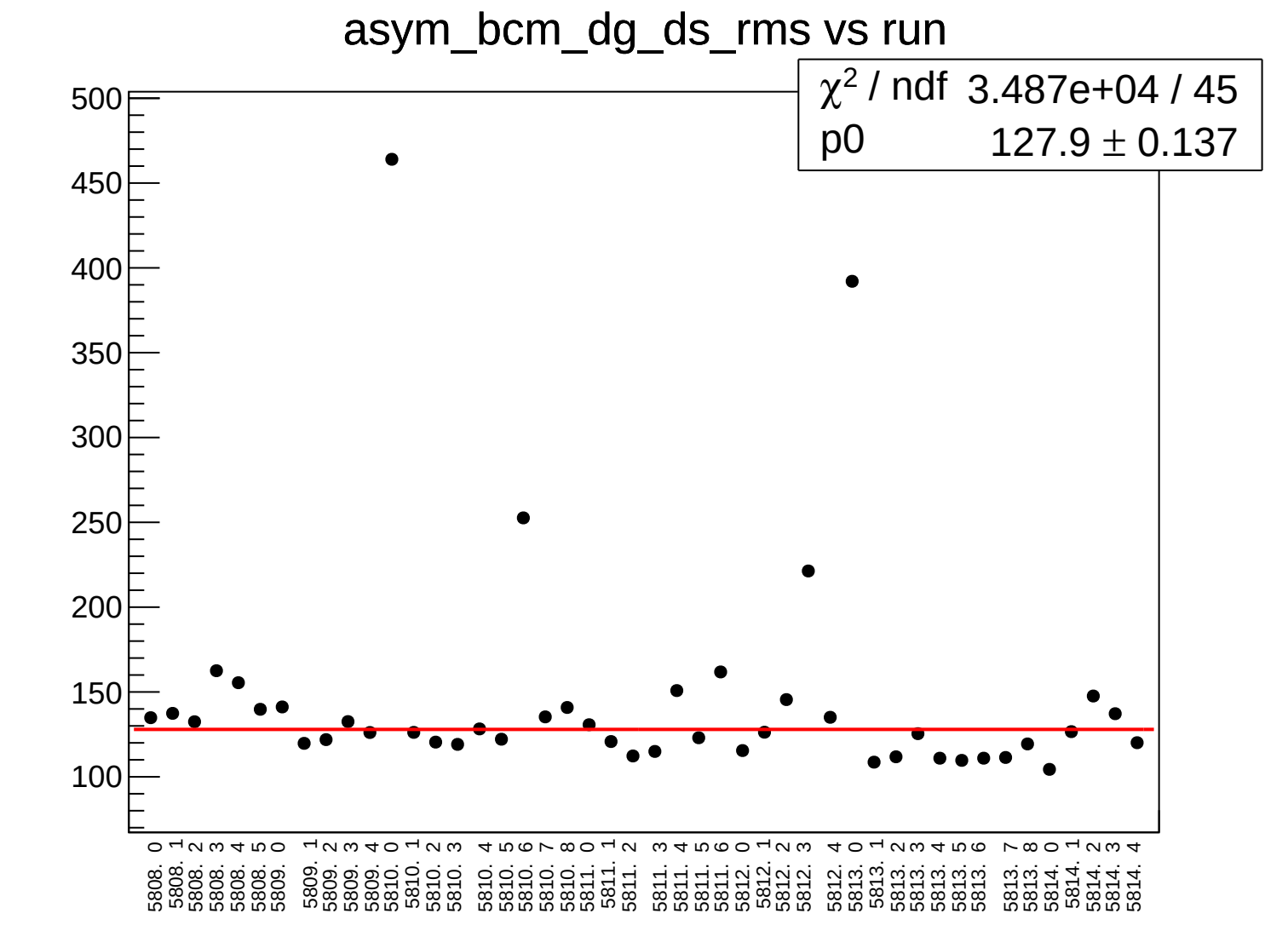

asym_bcm_dg_us_mean vs run
χ² / ndf 11.73 / 45
p0 38.11 ± 200.6
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 61.54
Std Dev 54.15
1
0.5
0
−0.5
−1

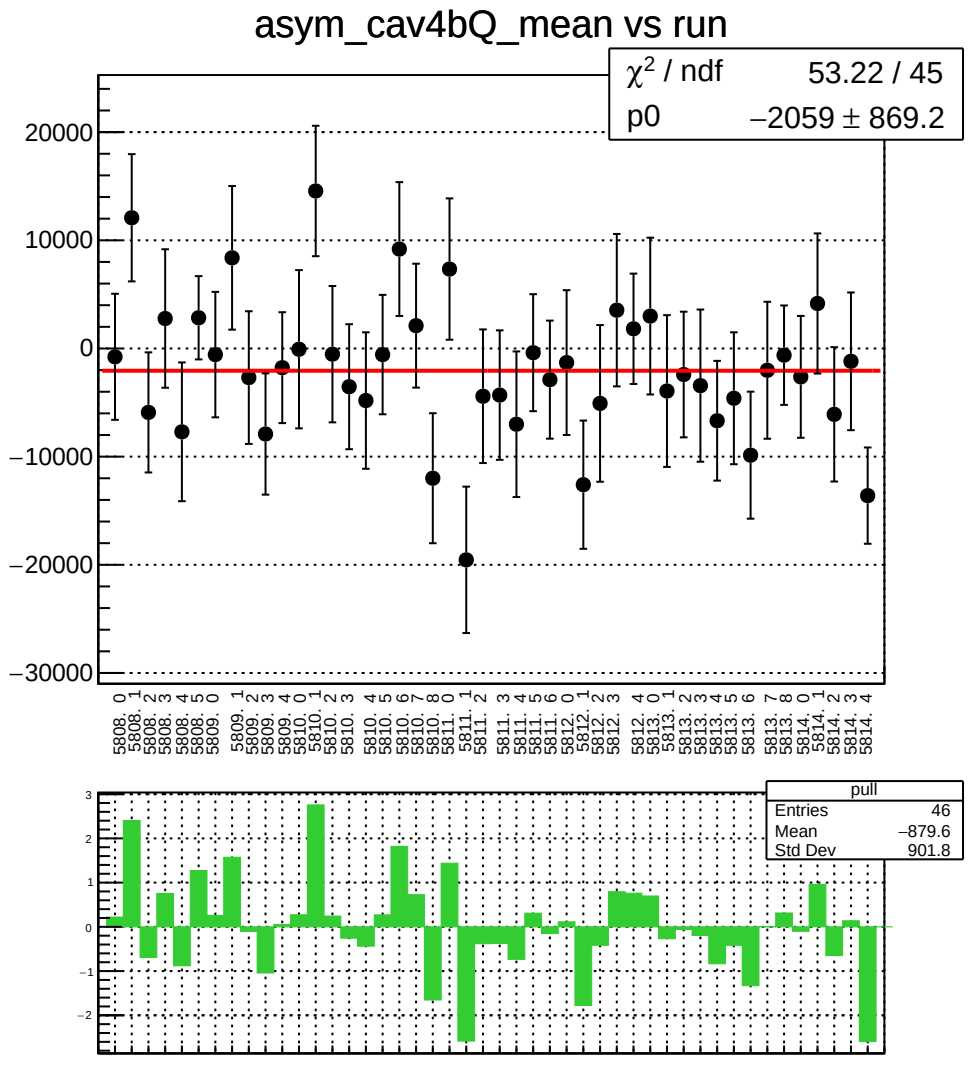

pull1D
Entries 46
Mean −0.00922
Std Dev 0.5049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

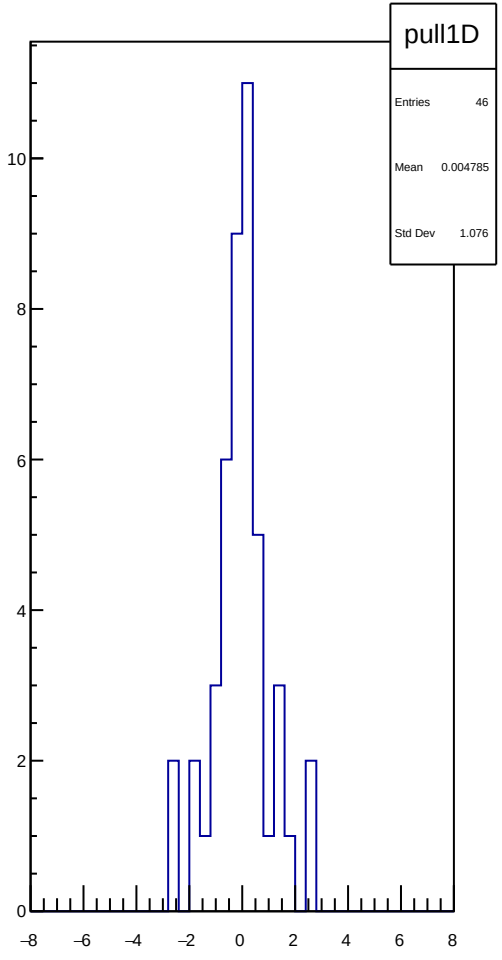

asym_bcm_dg_us_rms vs run
χ² / ndf 3.416e+04 / 45
p0 132.5 ± 0.1419
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

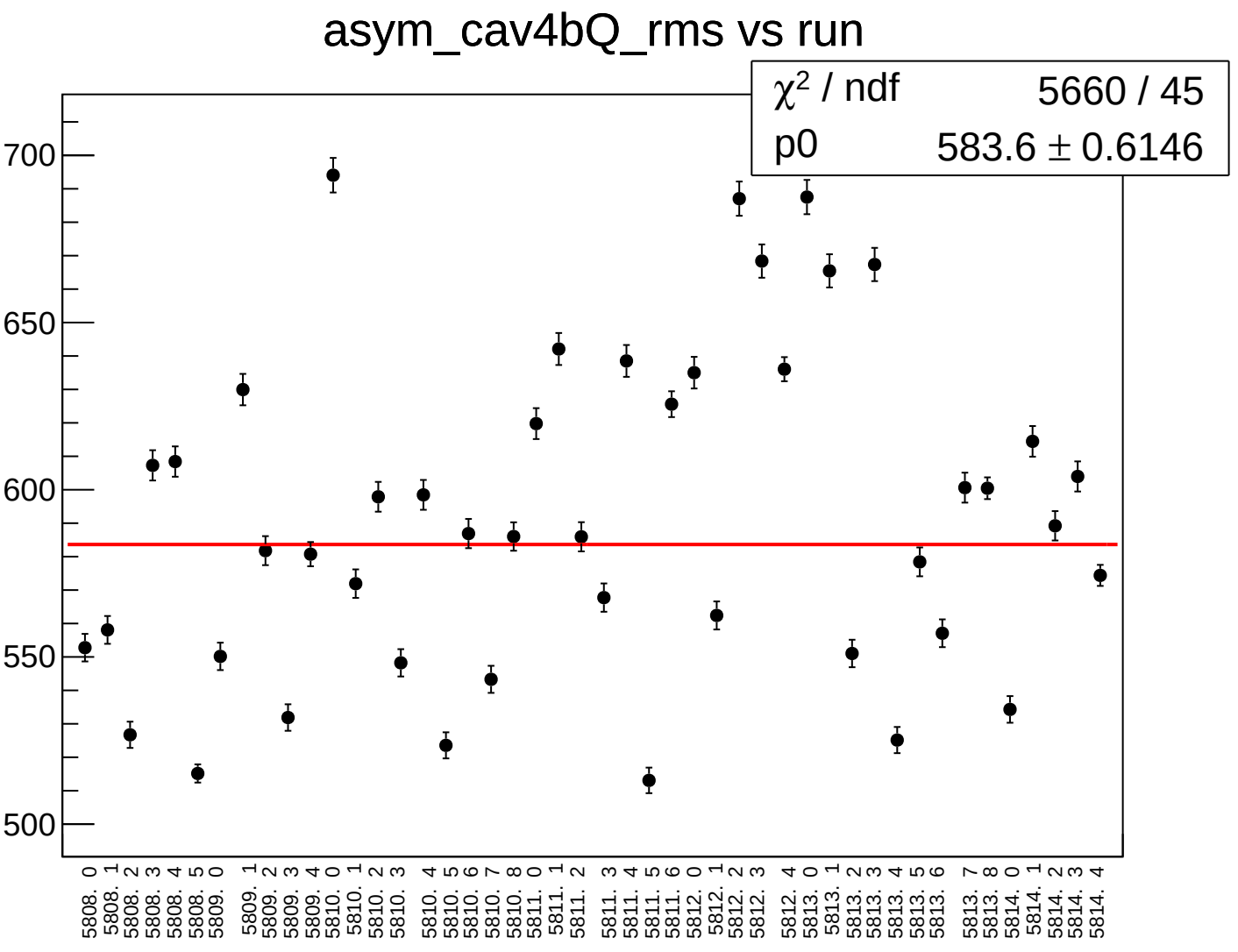

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.2 / 45
p0 80.59 ± 193.7
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 80.14
Std Dev 58.71
1
0.5
0
−0.5
−1
−1.5

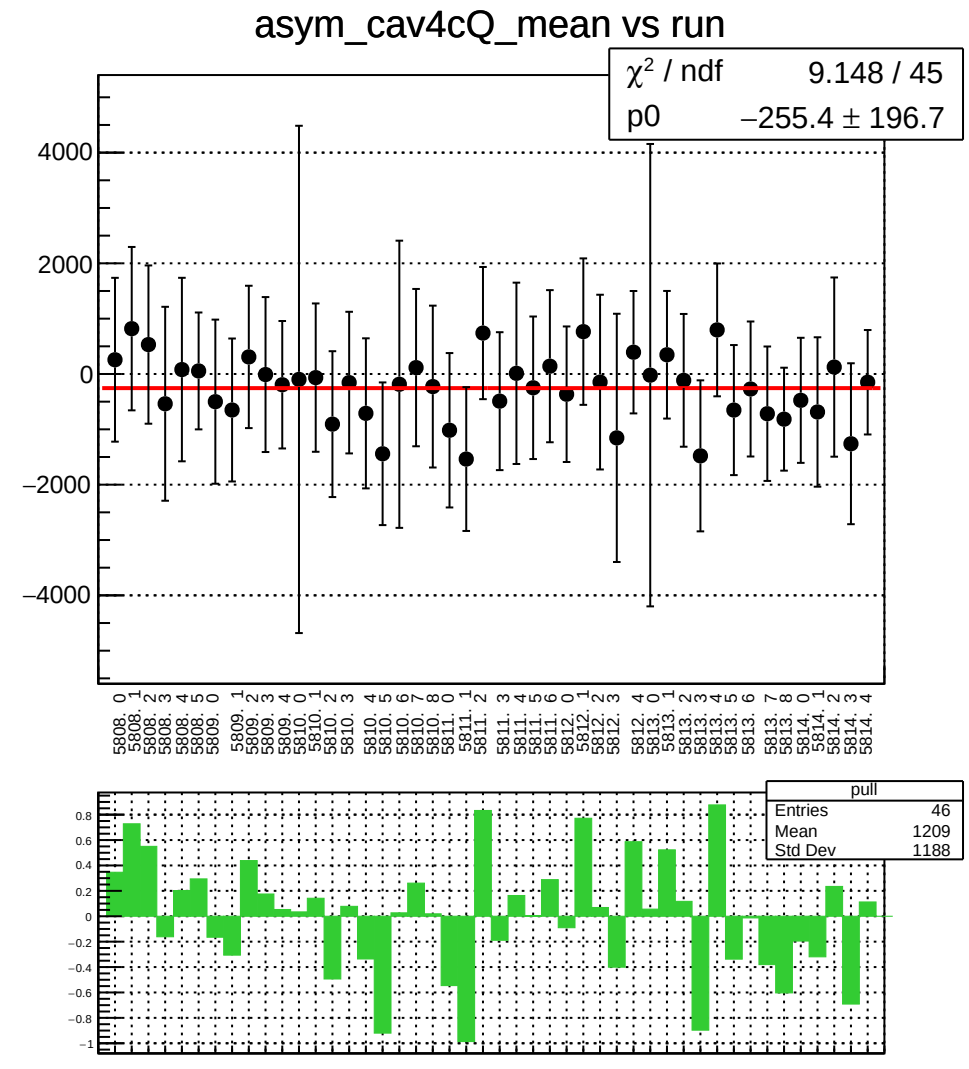

pull1D
Entries 46
Mean −0.0156
Std Dev 0.5148
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

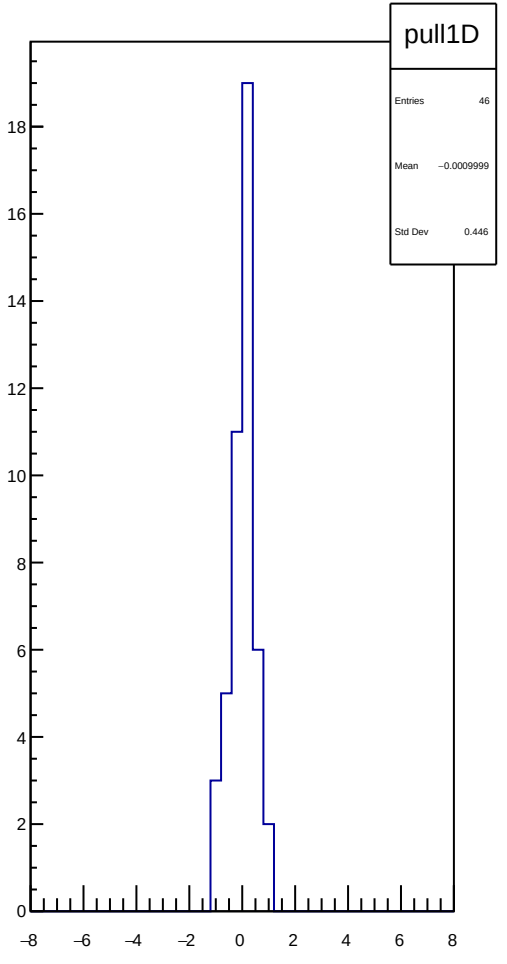

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3.487e+04 / 45
p0 127.9 ± 0.137
500
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

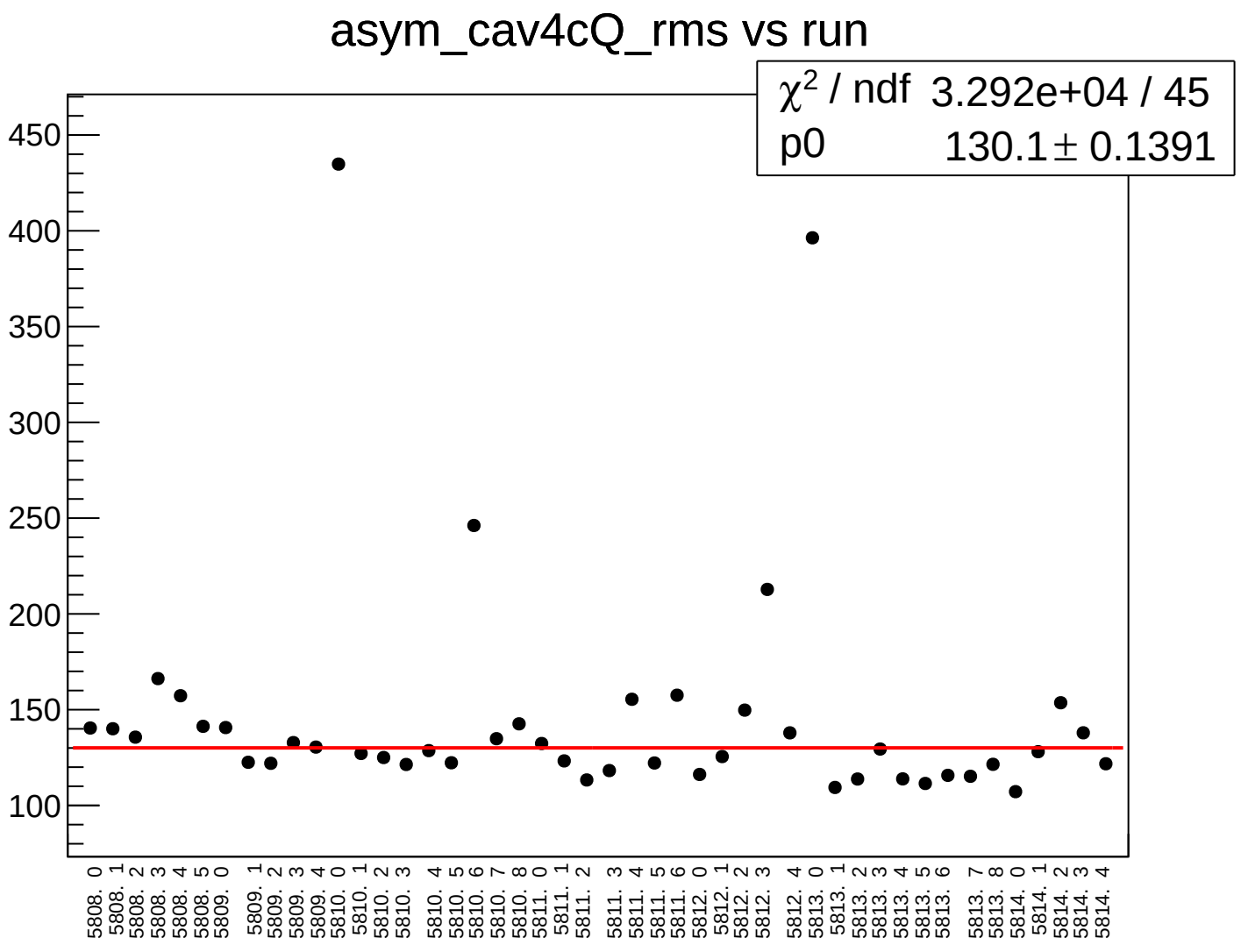

asym_cav4bQ_mean vs run
χ² / ndf 53.22 / 45
p0 −2059 ± 869.2
20000
10000
0
−10000
−20000
−30000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −879.6
Std Dev 901.8
3
2
1
0
−1
−2

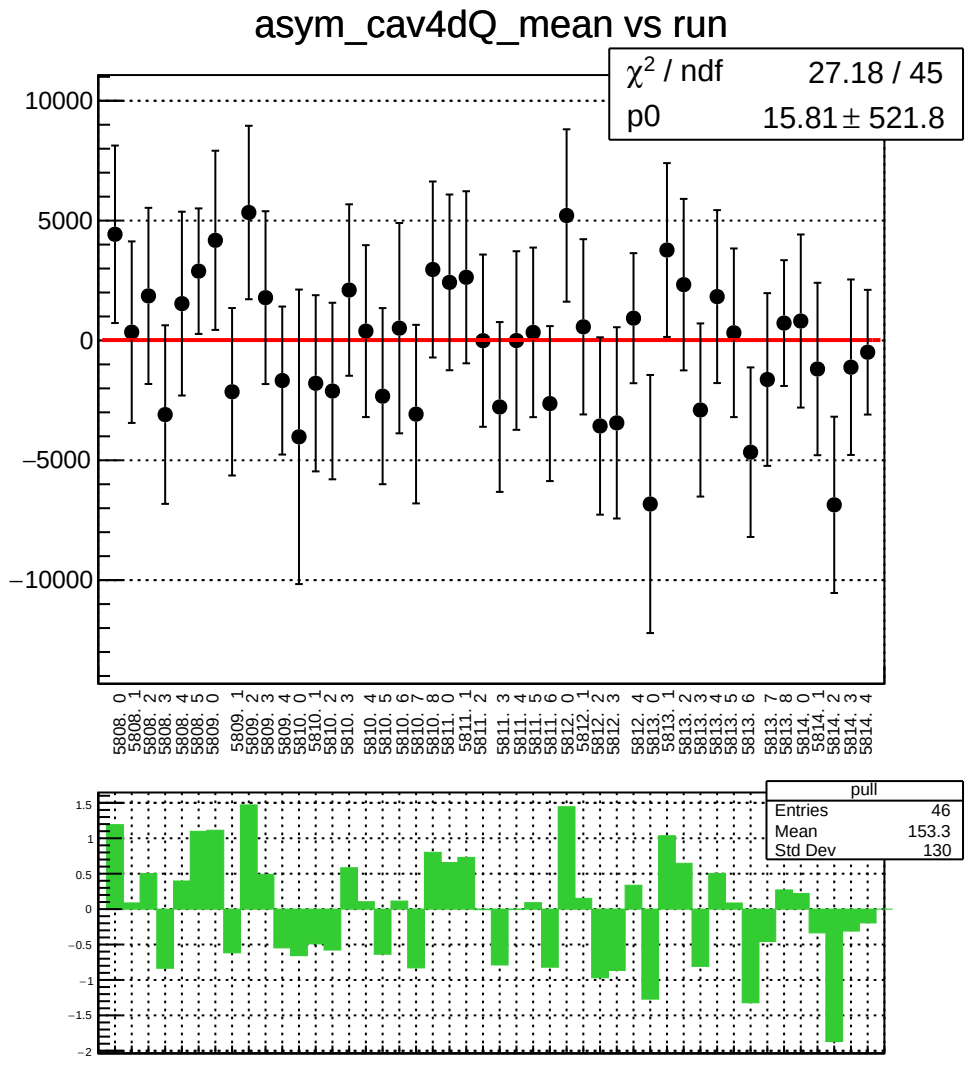

pull1D
Entries 46
Mean 0.004785
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

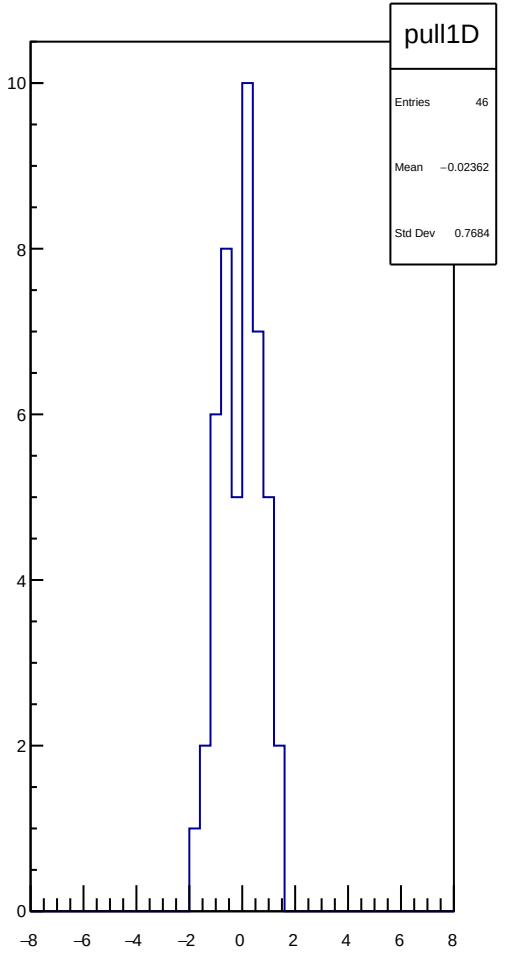

asym_cav4bQ_rms vs run
χ² / ndf 5660 / 45
p0 583.6 ± 0.6146
700
650
600
550
500
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

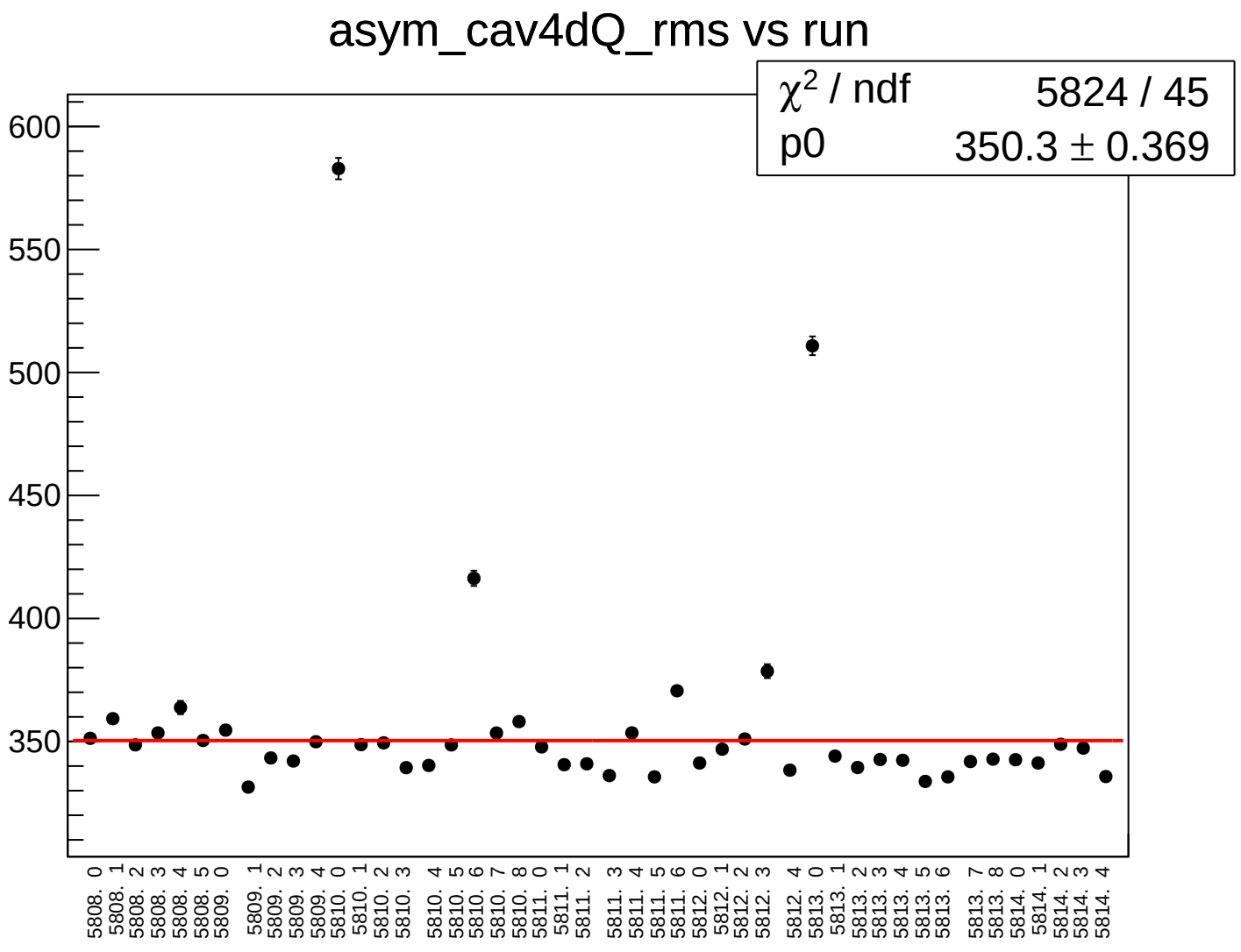

asym_cav4cQ_mean vs run
χ² / ndf 9.148 / 45
p0 −255.4 ± 196.7
4000
2000
0
−2000
−4000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 1209
Std Dev 1188
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

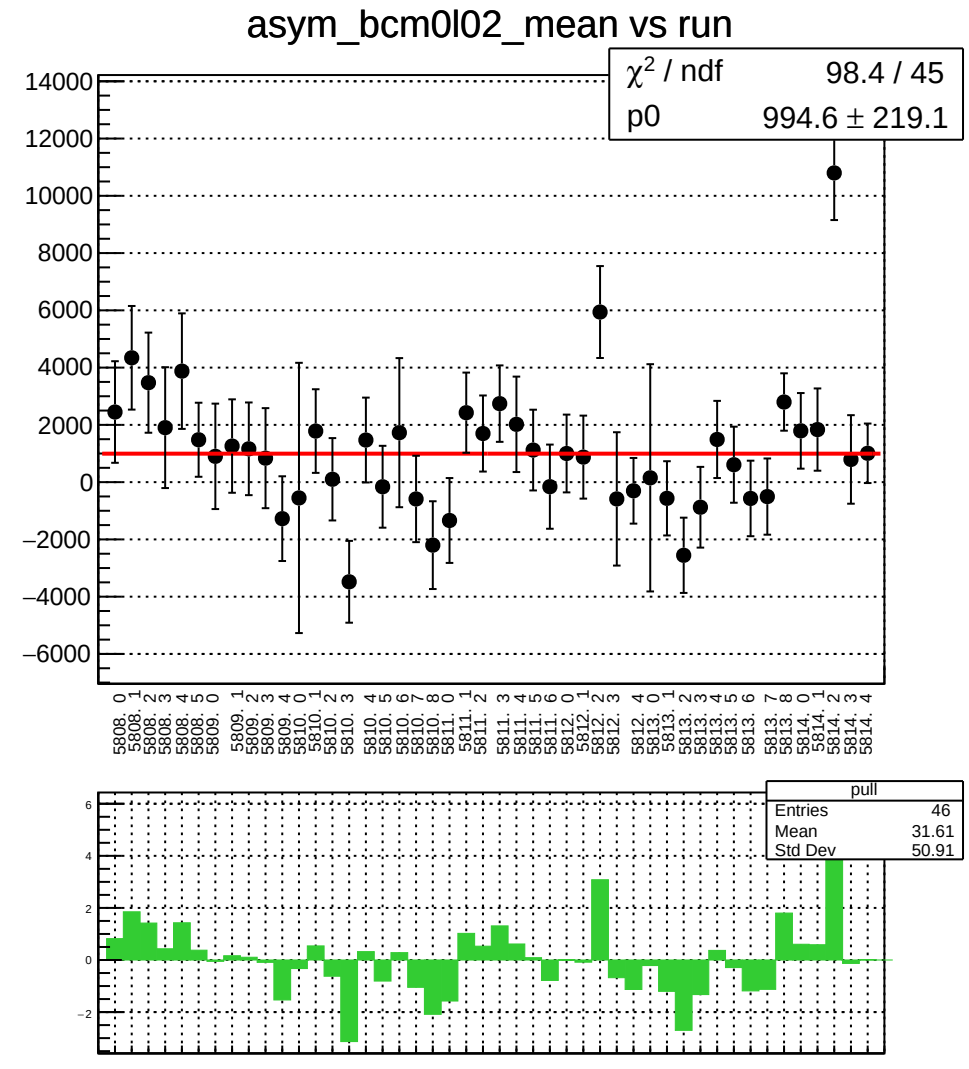

pull1D
Entries 46
Mean −0.0009999
Std Dev 0.446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

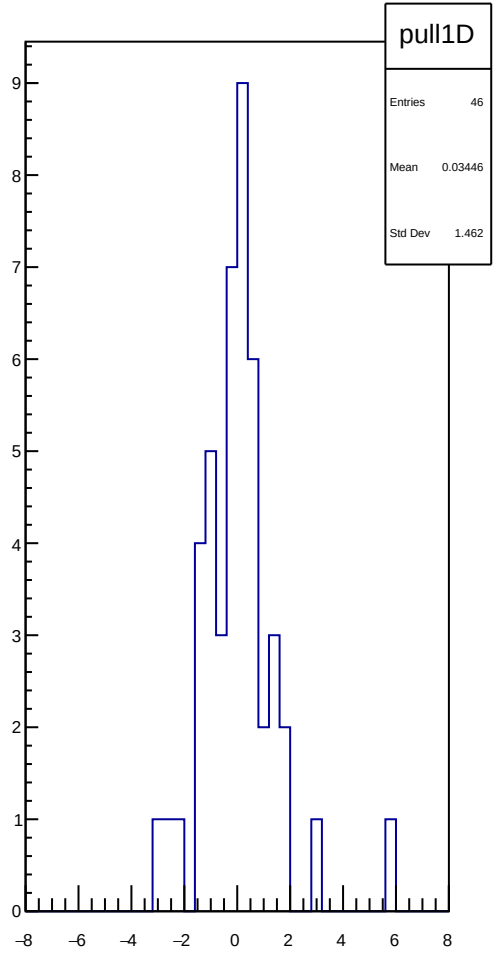

asym_cav4cQ_rms vs run
χ^2 / ndf 3.292e+04 / 45
p0 130.1 ± 0.1391
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

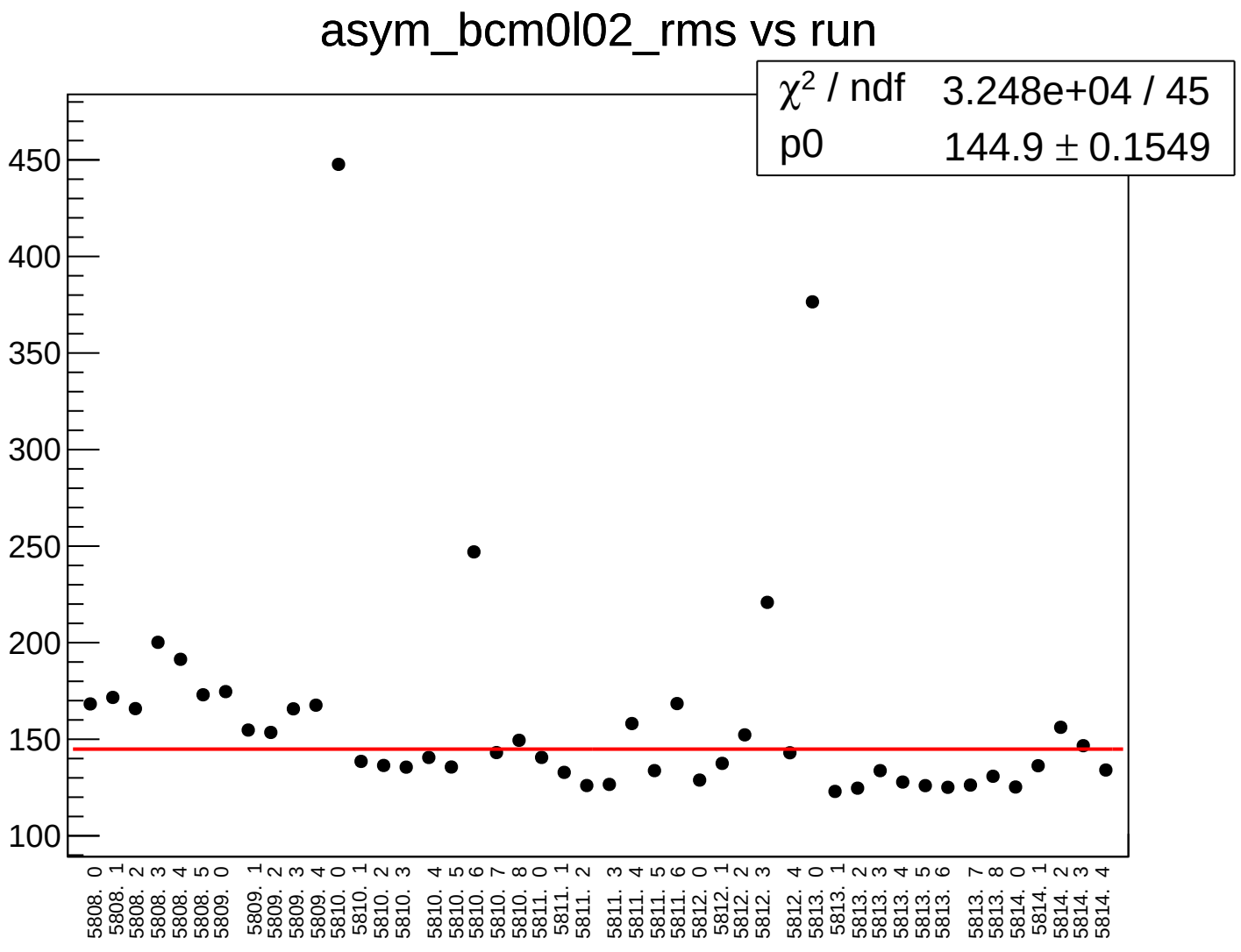

asym_cav4dQ_mean vs run
χ² / ndf 27.18 / 45
p0 15.81 ± 521.8
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 153.3
Std Dev 130
1.5
1
0.5
0
−0.5
−1
−1.5
−2

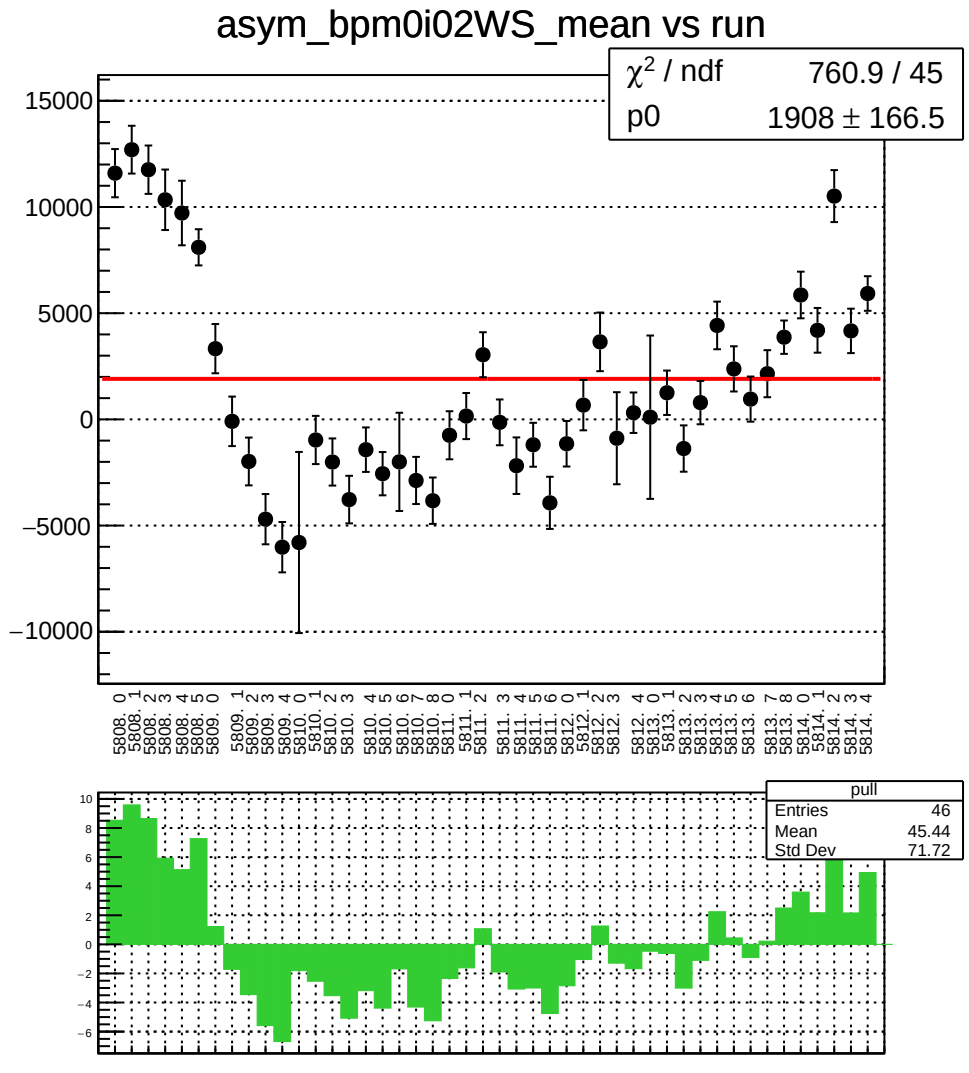

pull1D
Entries 46
Mean −0.02362
Std Dev 0.7684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

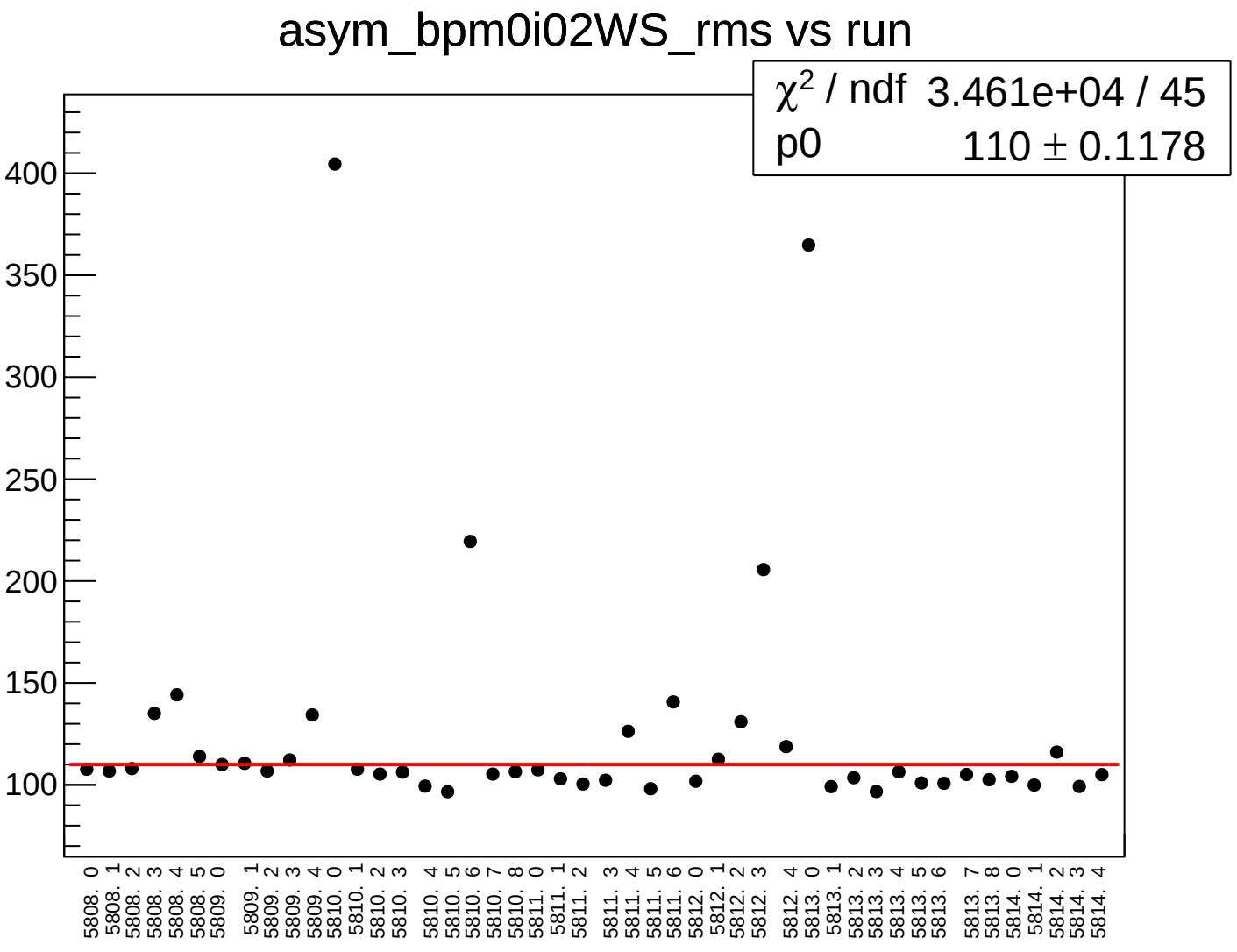

asym_cav4dQ_rms vs run
χ^2 / ndf 5824 / 45
p0 350.3 ± 0.369
600
550
500
450
400
350
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

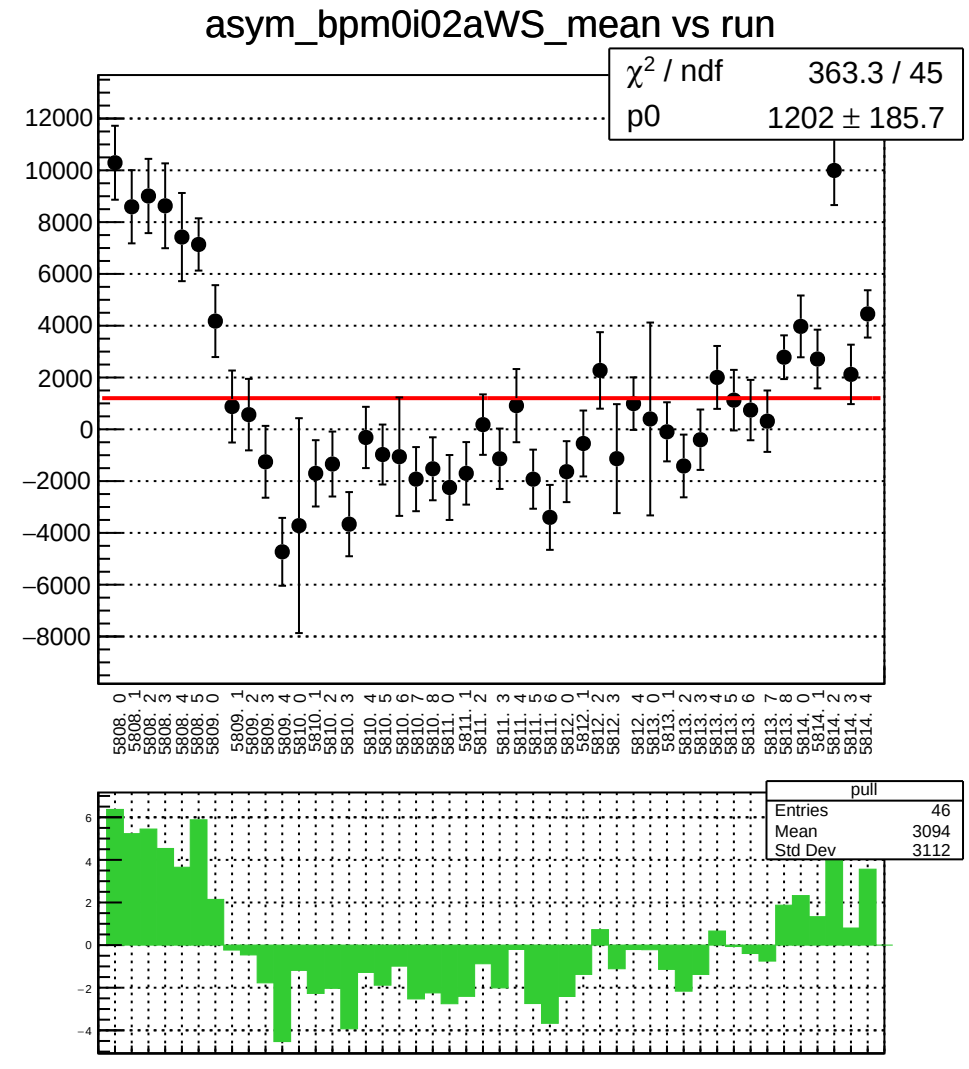

asym_bcm0l02_mean vs run
χ² / ndf 98.4 / 45
p0 994.6 ± 219.1
pull
Entries 46
Mean 31.61
Std Dev 50.91

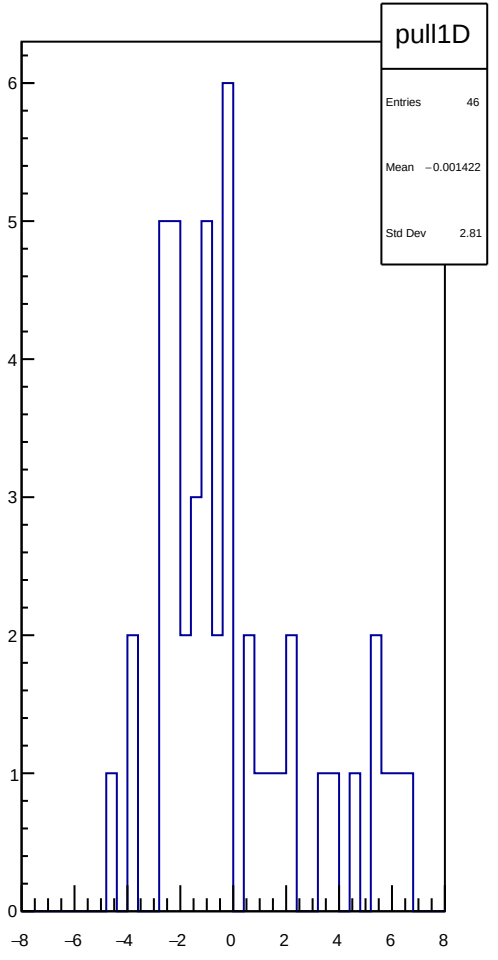

pull1D
Entries 46
Mean 0.03446
Std Dev 1.462

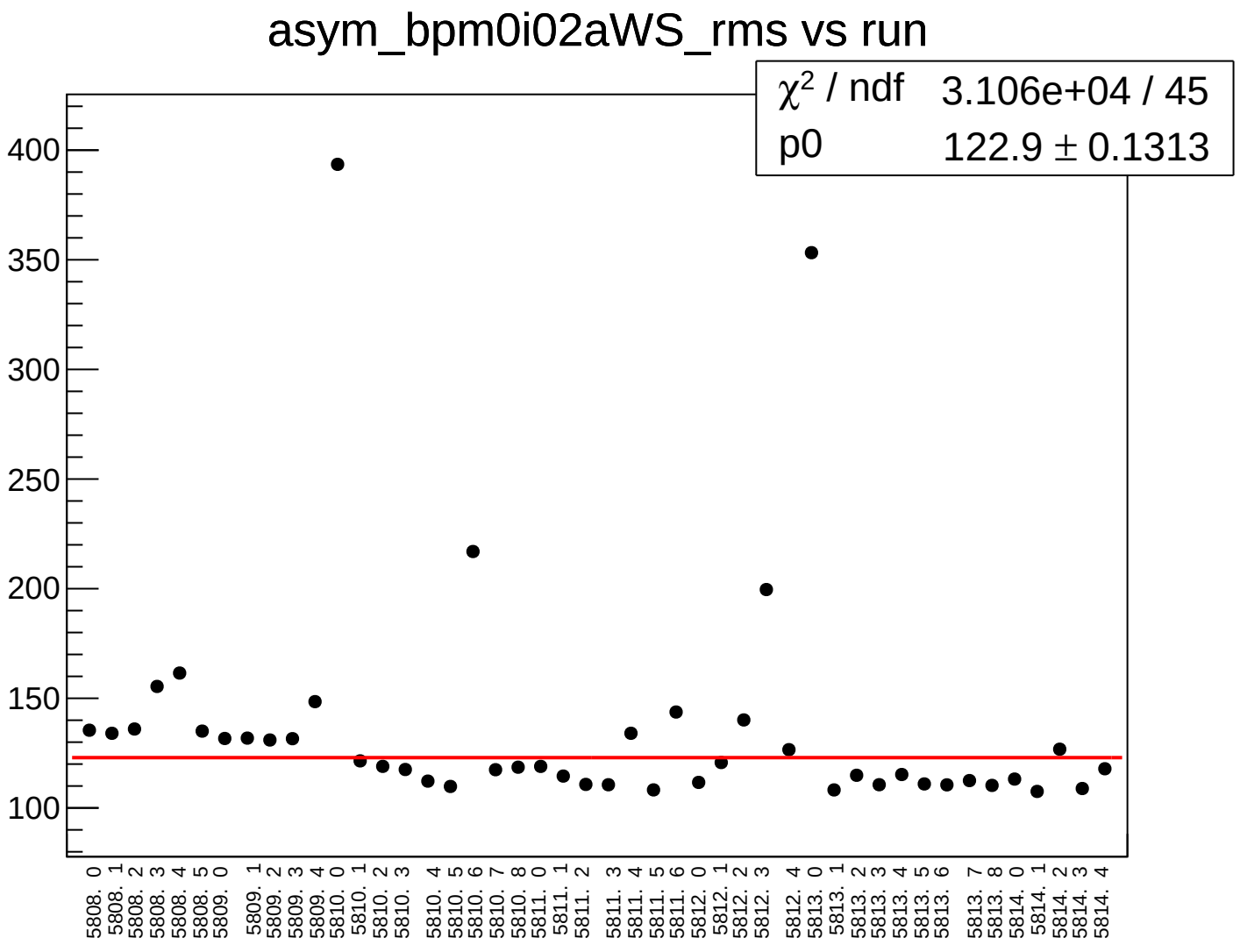

asym_bcm0l02_rms vs run
χ^2 / ndf 3.248e+04 / 45
p0 144.9 ± 0.1549
450
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

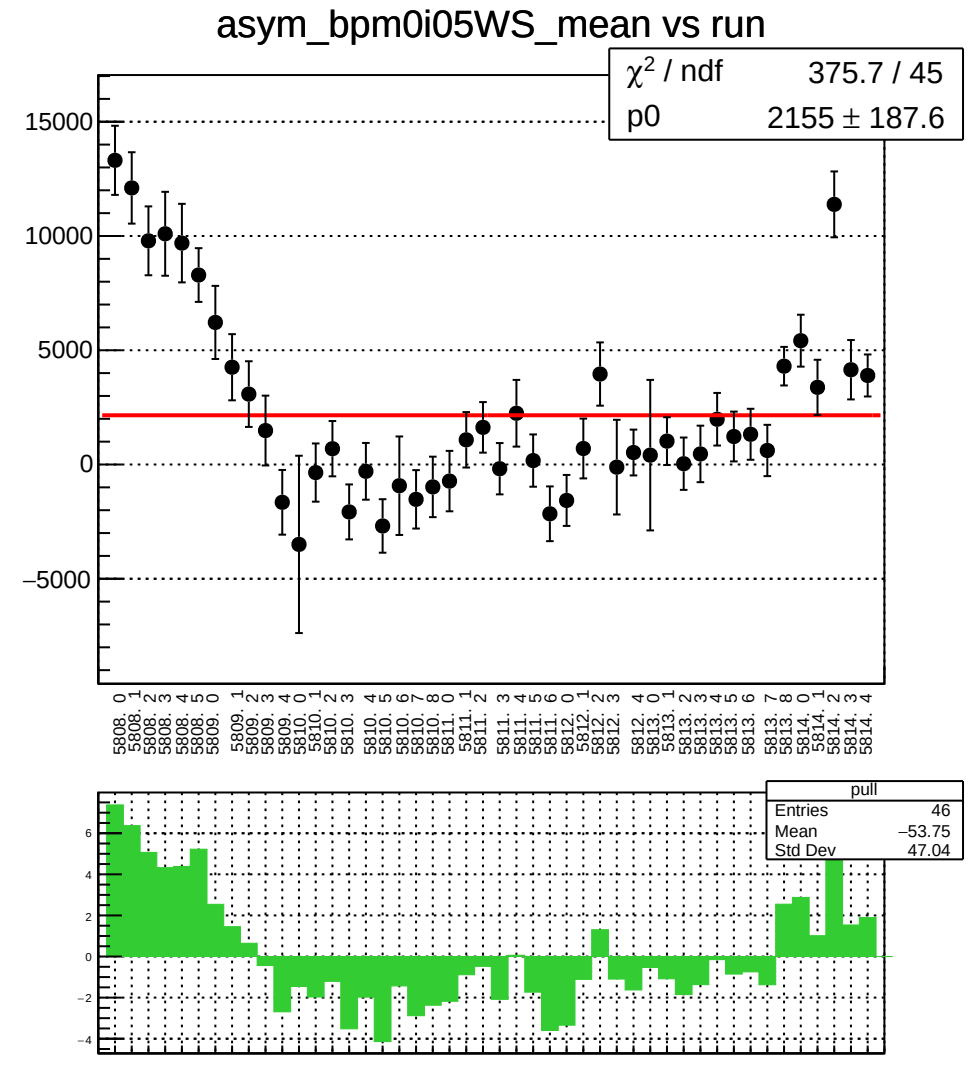

asym_bpm0i02WS_mean vs run
χ² / ndf 760.9 / 45
p0 1908 ± 166.5
15000
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 45.44
Std Dev 71.72
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean −0.7359
Std Dev 3.403
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

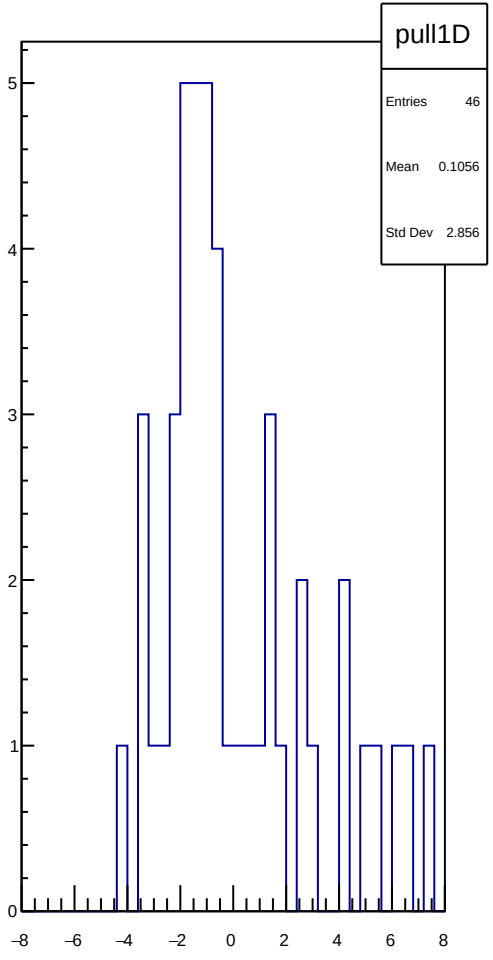

asym_bpm0i02WS_rms vs run
χ² / ndf 3.461e+04 / 45
p0 110 ± 0.1178
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

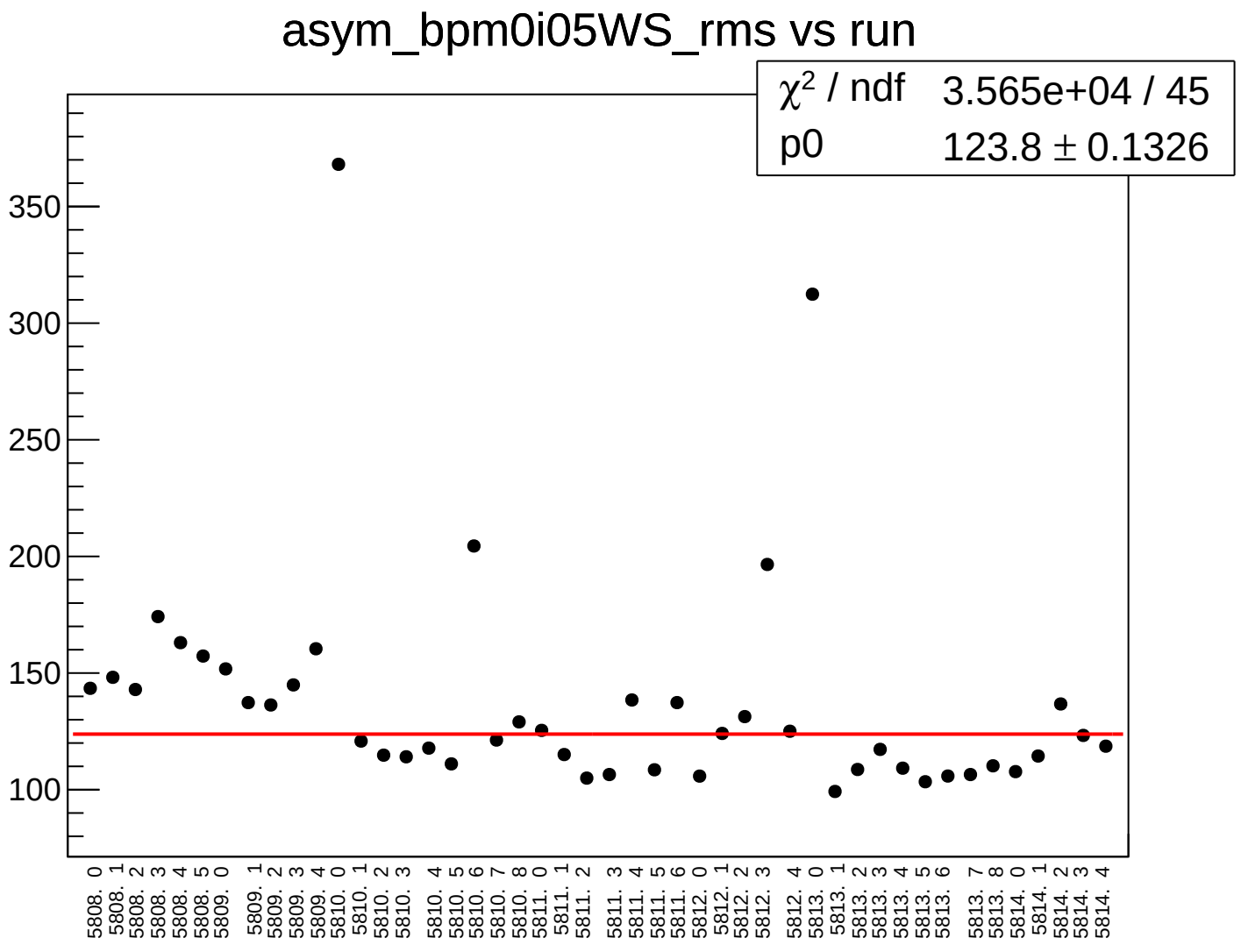

asym_bpm0i02aWS_mean vs run
χ² / ndf 363.3 / 45
p0 1202 ± 185.7
pull
Entries 46
Mean 3094
Std Dev 3112

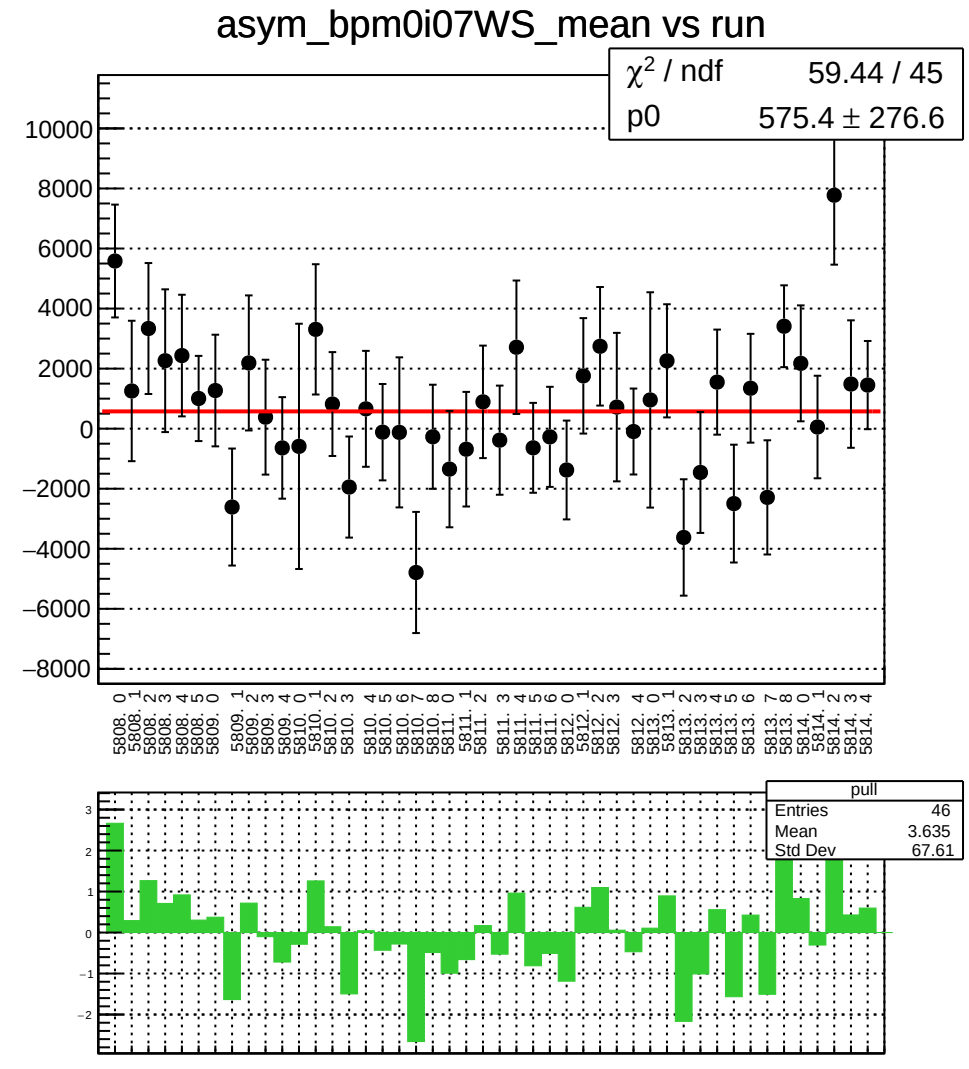

pull1D
Entries 46
Mean −0.001422
Std Dev 2.81

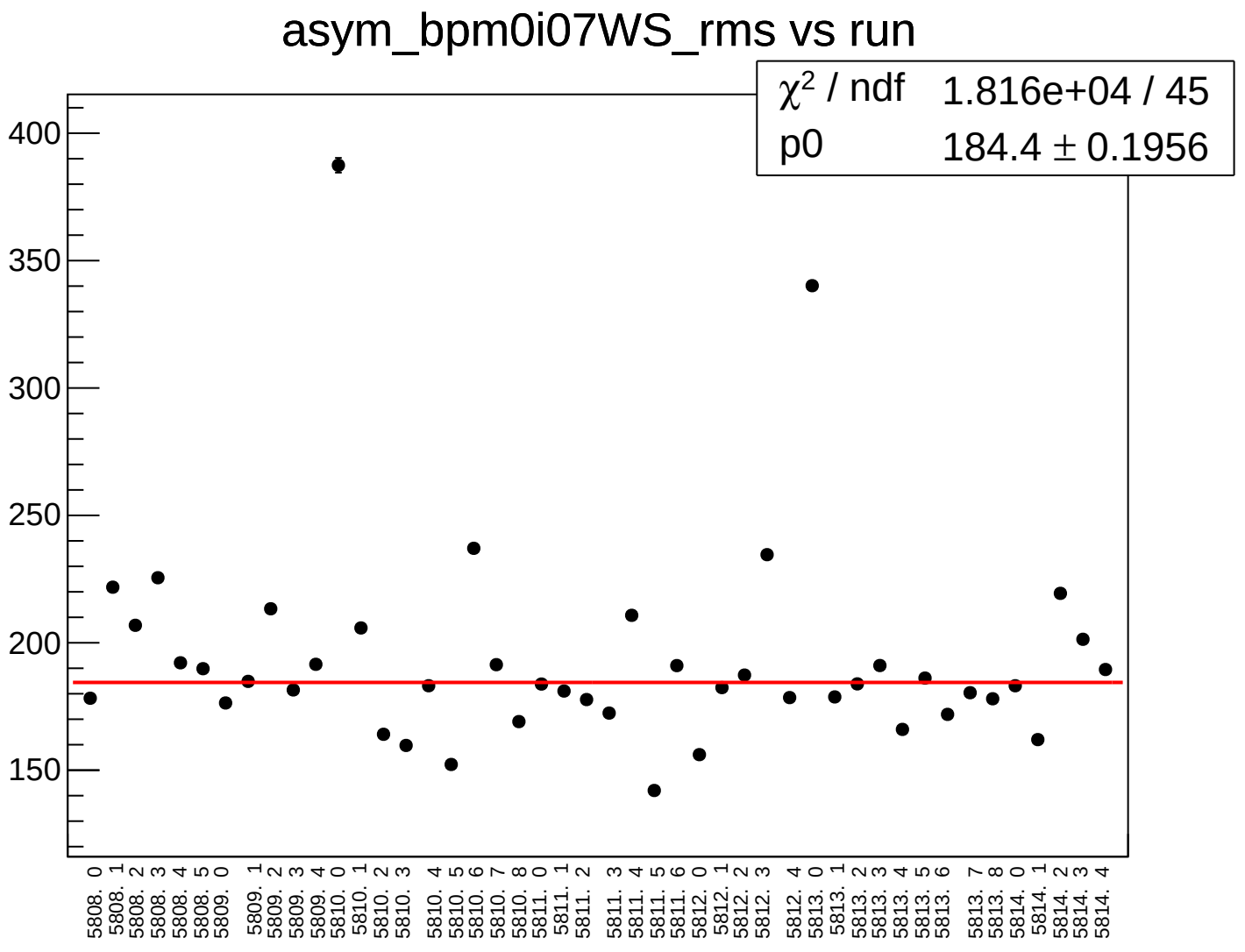

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.106e+04 / 45
p0 122.9 ± 0.1313
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

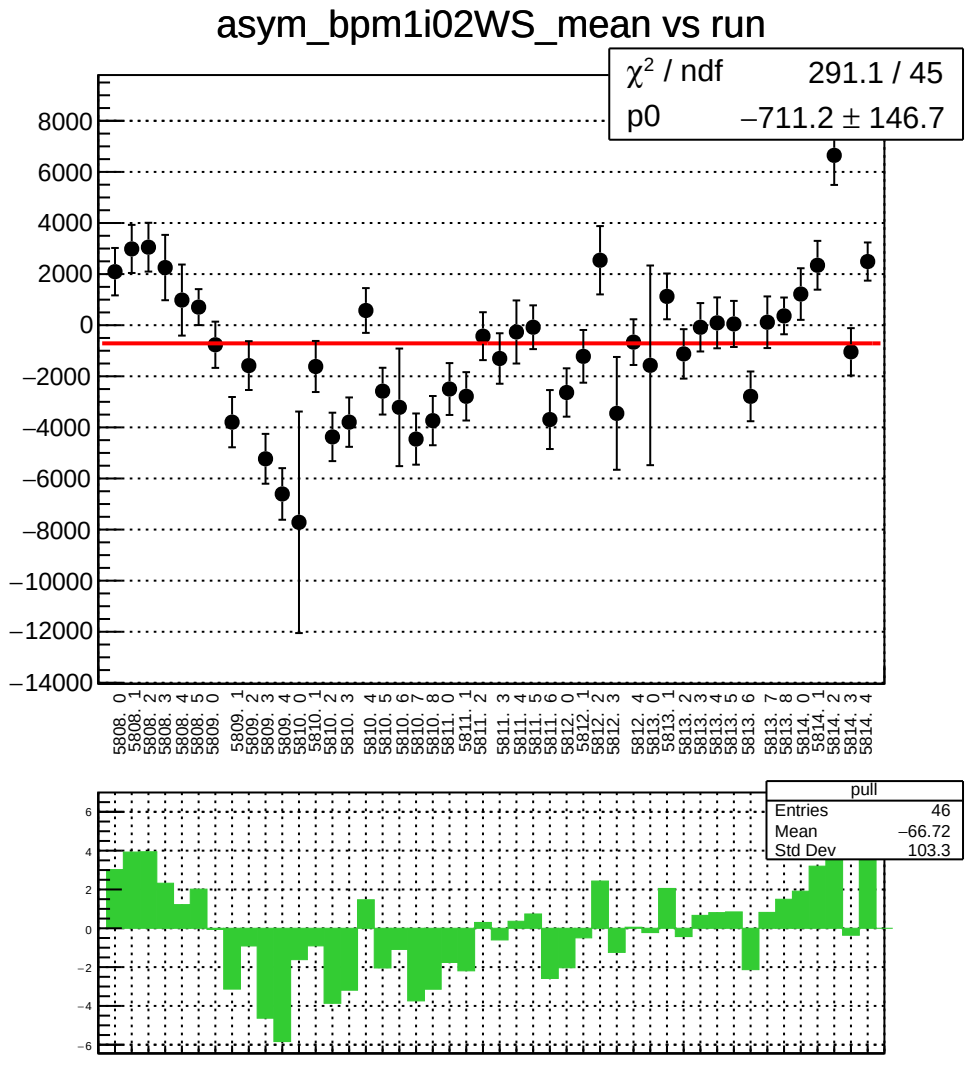

asym_bpm0i05WS_mean vs run
χ² / ndf 375.7 / 45
p0 2155 ± 187.6
15000
10000
5000
0
−5000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −53.75
Std Dev 47.04
6
4
2
0
−2
−4

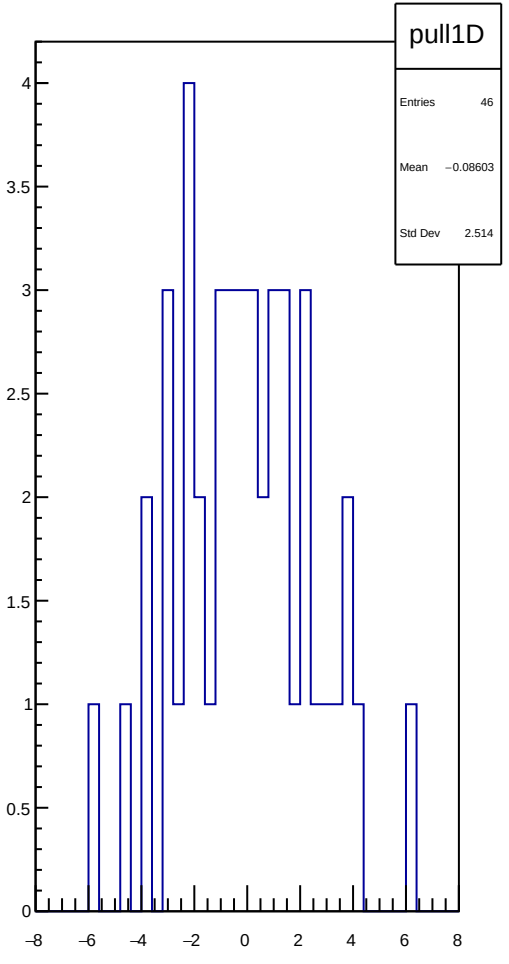

pull1D
Entries 46
Mean 0.1056
Std Dev 2.856
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

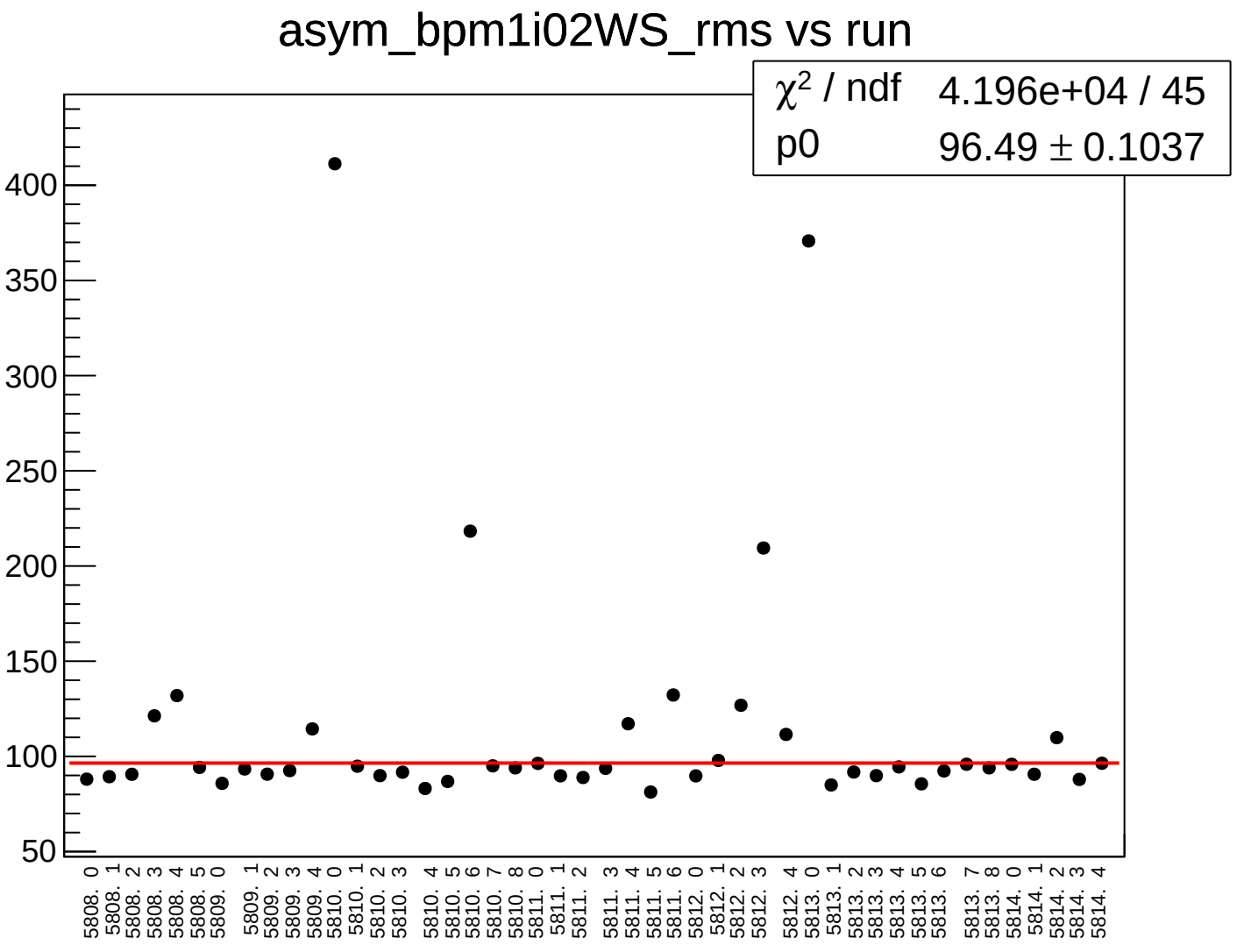

asym_bpm0i05WS_rms vs run
χ² / ndf 3.565e+04 / 45
p0 123.8 ± 0.1326
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

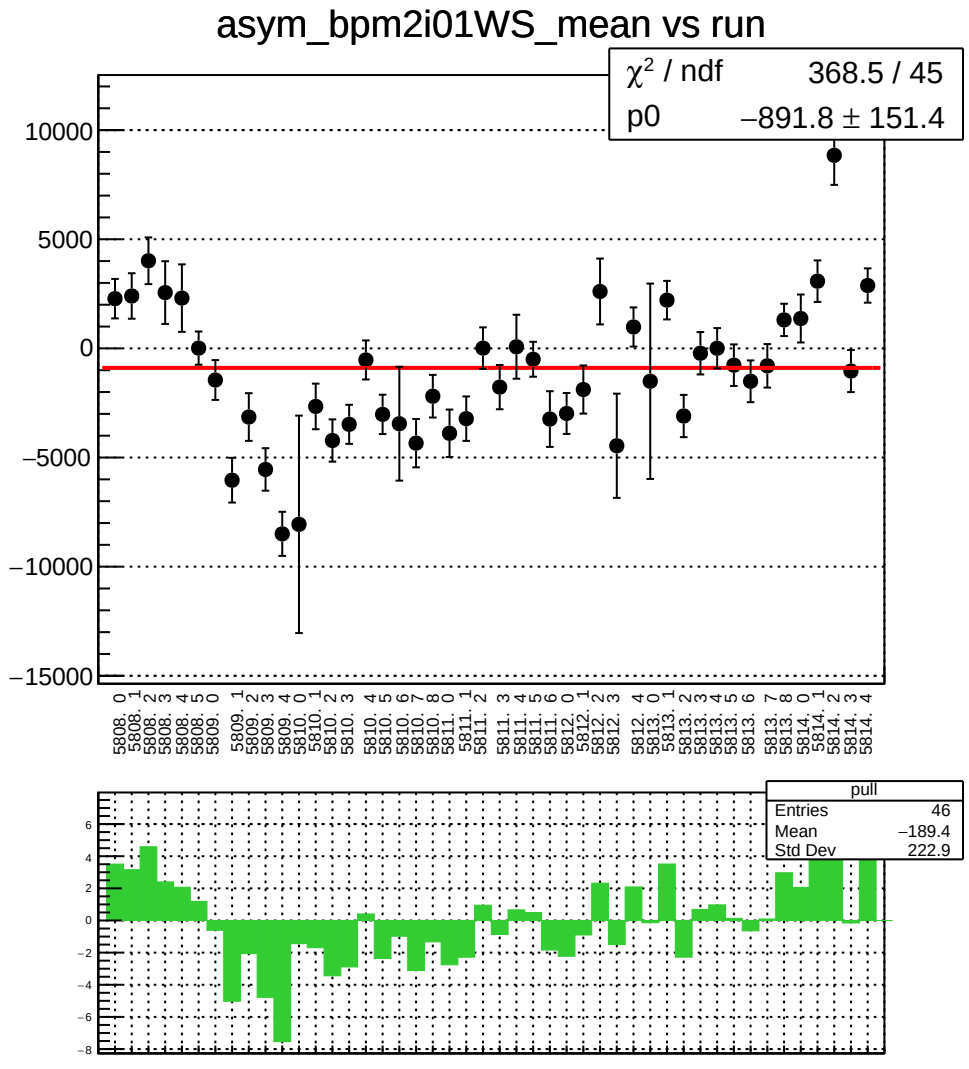

asym_bpm0i07WS_mean vs run
χ^2 / ndf 59.44 / 45
p0 575.4 ± 276.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 3.635
Std Dev 67.61
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01793
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

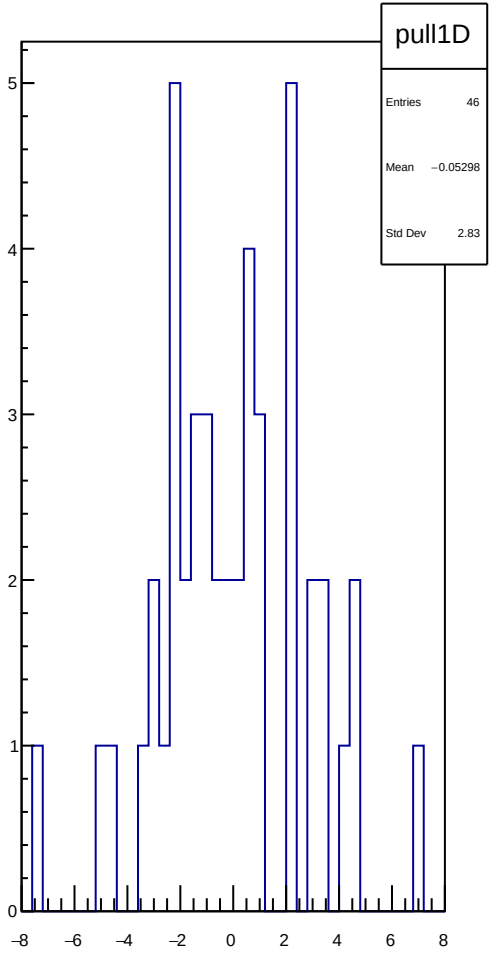

asym_bpm0i07WS_rms vs run
χ² / ndf 1.816e+04 / 45
p0 184.4 ± 0.1956
400
350
300
250
200
150
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

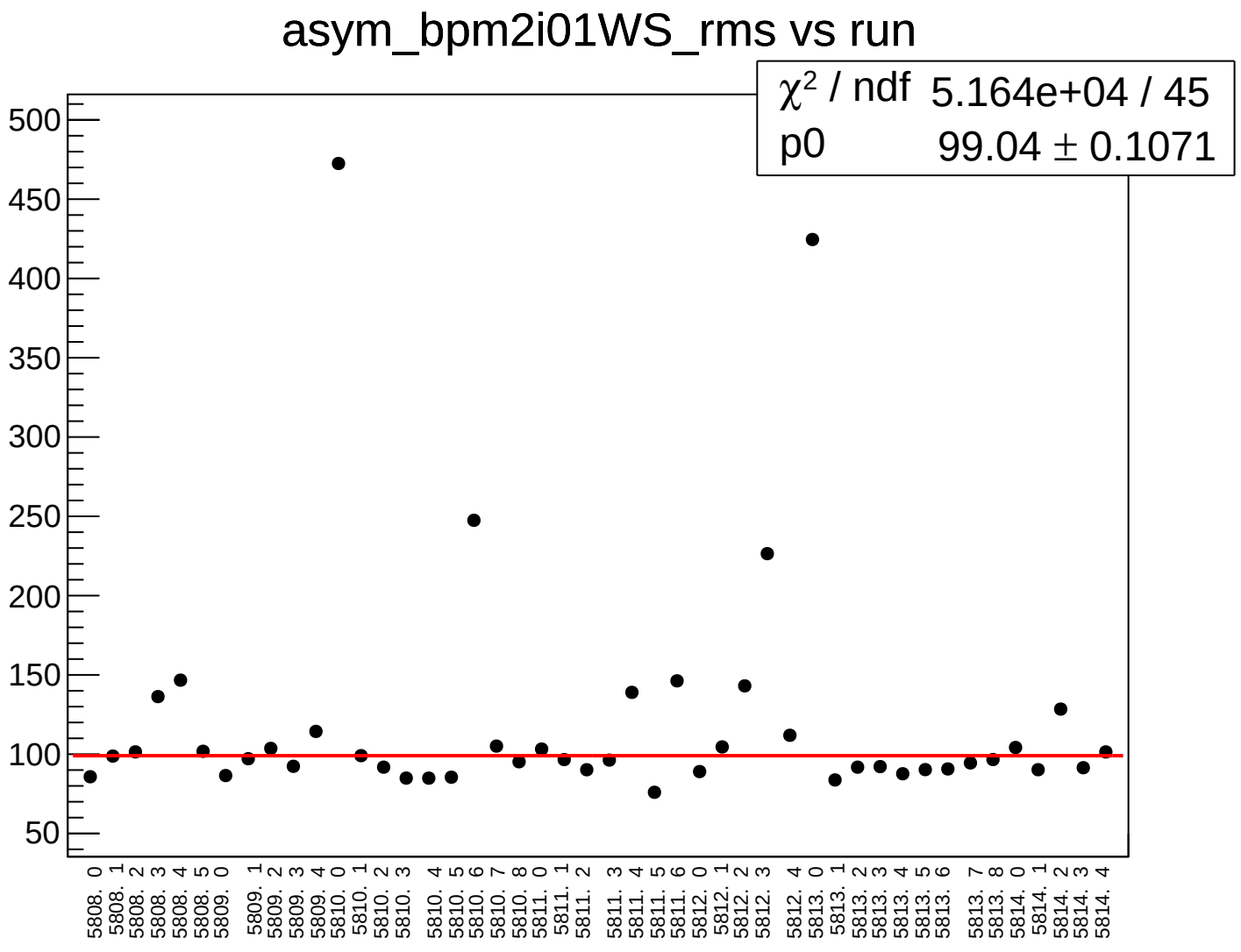

asym_bpm1i02WS_mean vs run
χ² / ndf 291.1 / 45
p0 −711.2 ± 146.7
pull
Entries 46
Mean −66.72
Std Dev 103.3

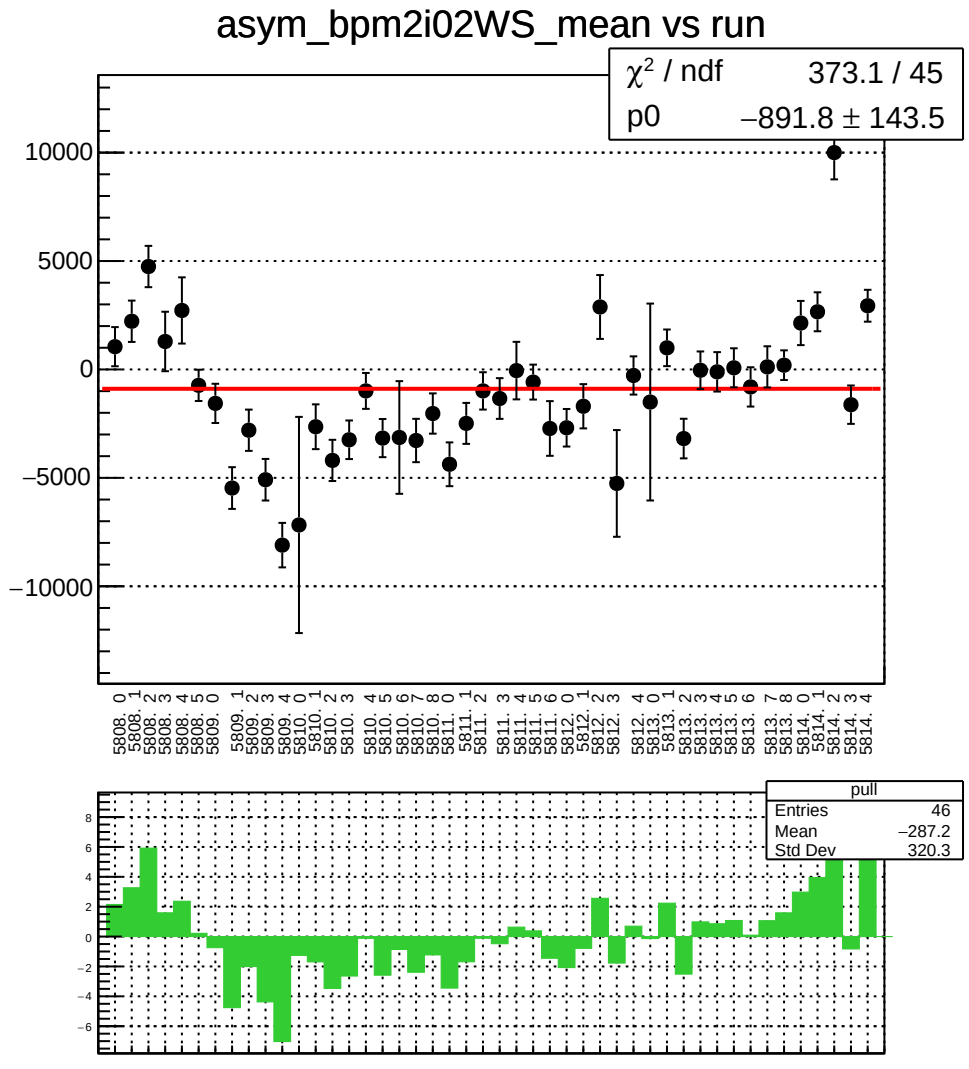

pull1D
Entries 46
Mean −0.08603
Std Dev 2.514

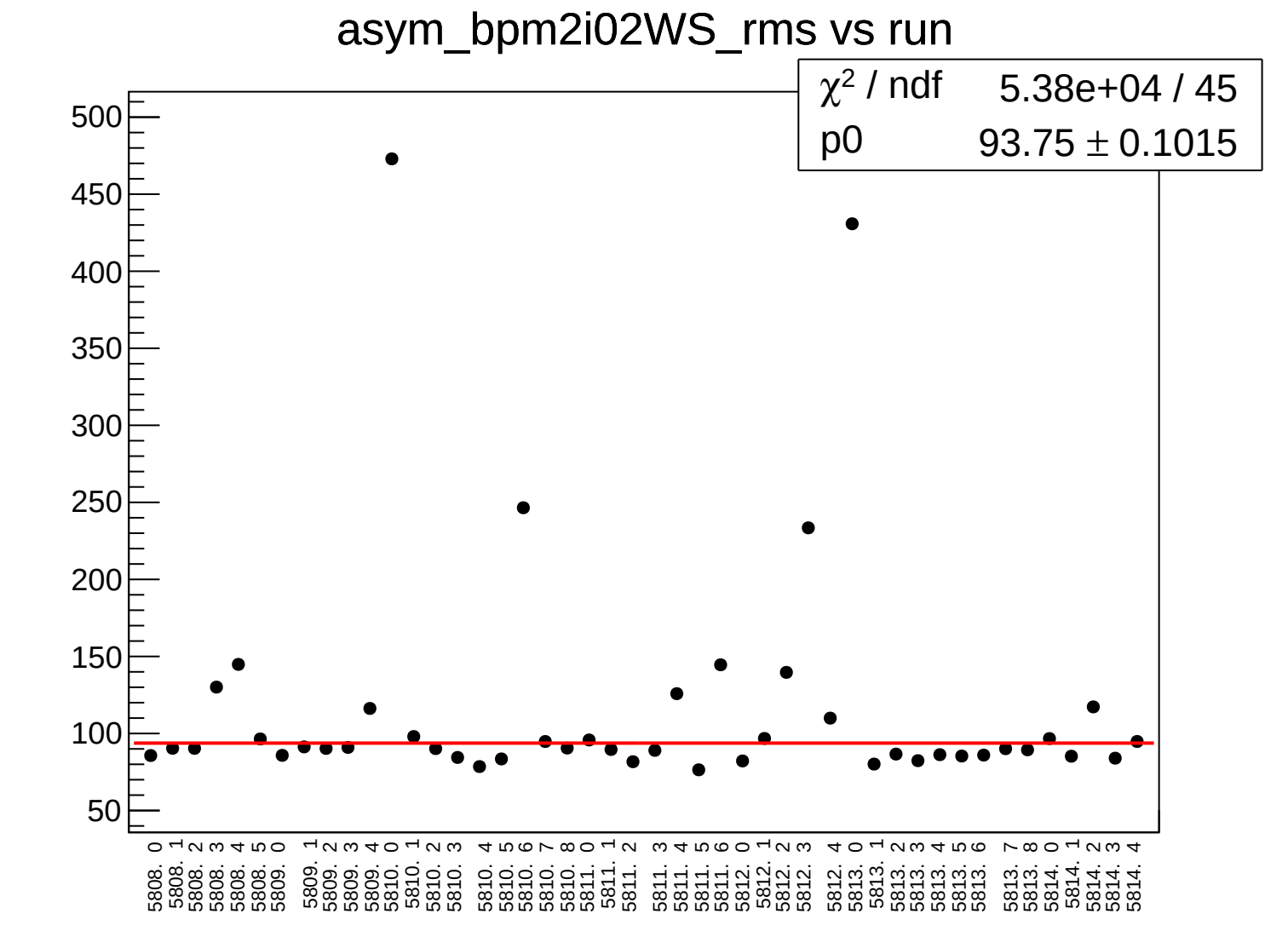

asym_bpm1i02WS_rms vs run
χ² / ndf 4.196e+04 / 45
p0 96.49 ± 0.1037
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


asym_bpm2i01WS_mean vs run
χ² / ndf 368.5 / 45
p0 −891.8 ± 151.4
10000
5000
0
−5000
−10000
−15000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −189.4
Std Dev 222.9
6
4
2
0
−2
−4
−6
−8


pull1D
Entries 46
Mean −0.05298
Std Dev 2.83
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
χ² / ndf 5.164e+04 / 45
p0 99.04 ± 0.1071
500
450
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


asym_bpm2i02WS_mean vs run
χ² / ndf 373.1 / 45
p0 −891.8 ± 143.5
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −287.2
Std Dev 320.3
8
6
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean −0.2362
Std Dev 2.551
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i02WS_rms vs run
χ^2 / ndf 5.38e+04 / 45
p0 93.75 ± 0.1015
500
450
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
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5813. 6
5813. 7
5813. 8
5814. 0
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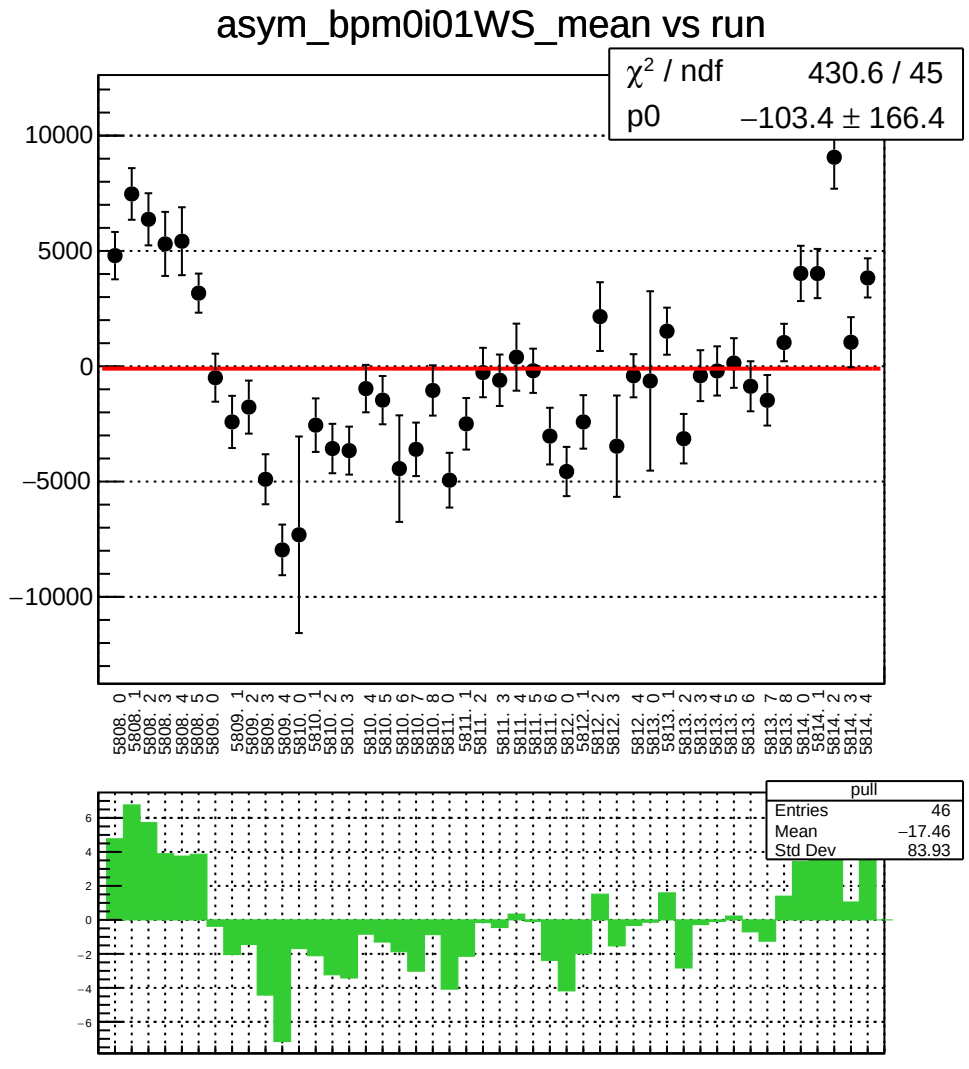
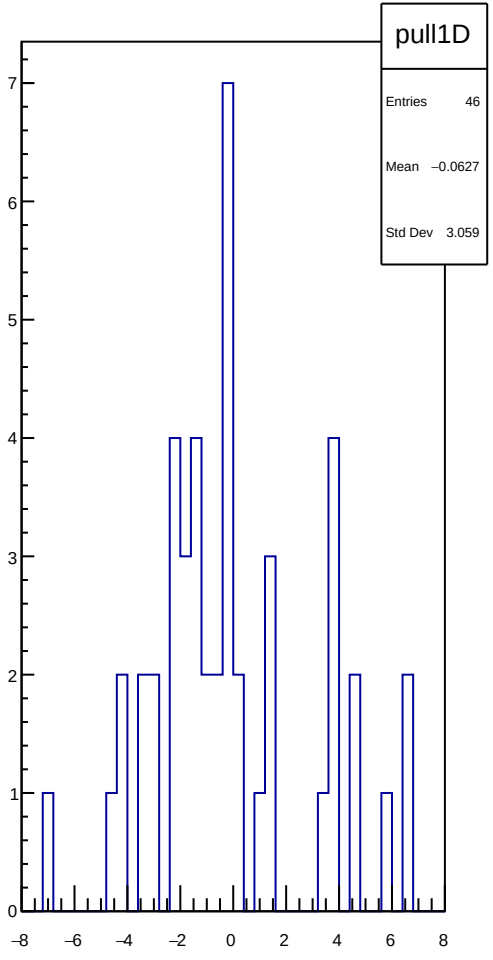
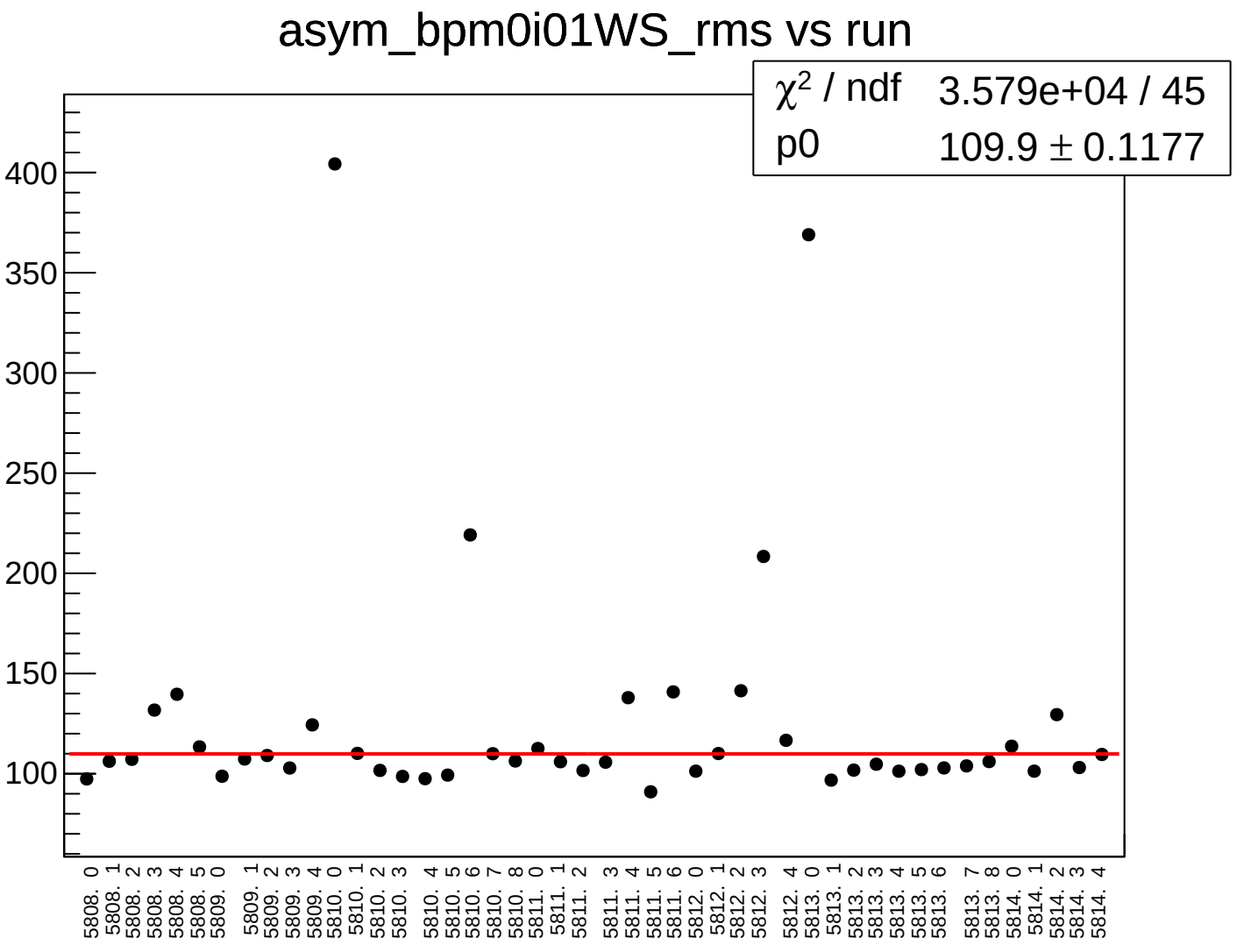
5814. 2
5814. 3
5814. 4


asym_bpm0i01WS_mean vs run
χ² / ndf 430.6 / 45
p0 −103.4 ± 166.4
10000
5000
0
−5000
−10000
pull
Entries 46
Mean −17.46
Std Dev 83.93


pull1D
Entries 46
Mean −0.0627
Std Dev 3.059


asym_bpm0i01WS_rms vs run
χ² / ndf 3.579e+04 / 45
p0 109.9 ± 0.1177
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
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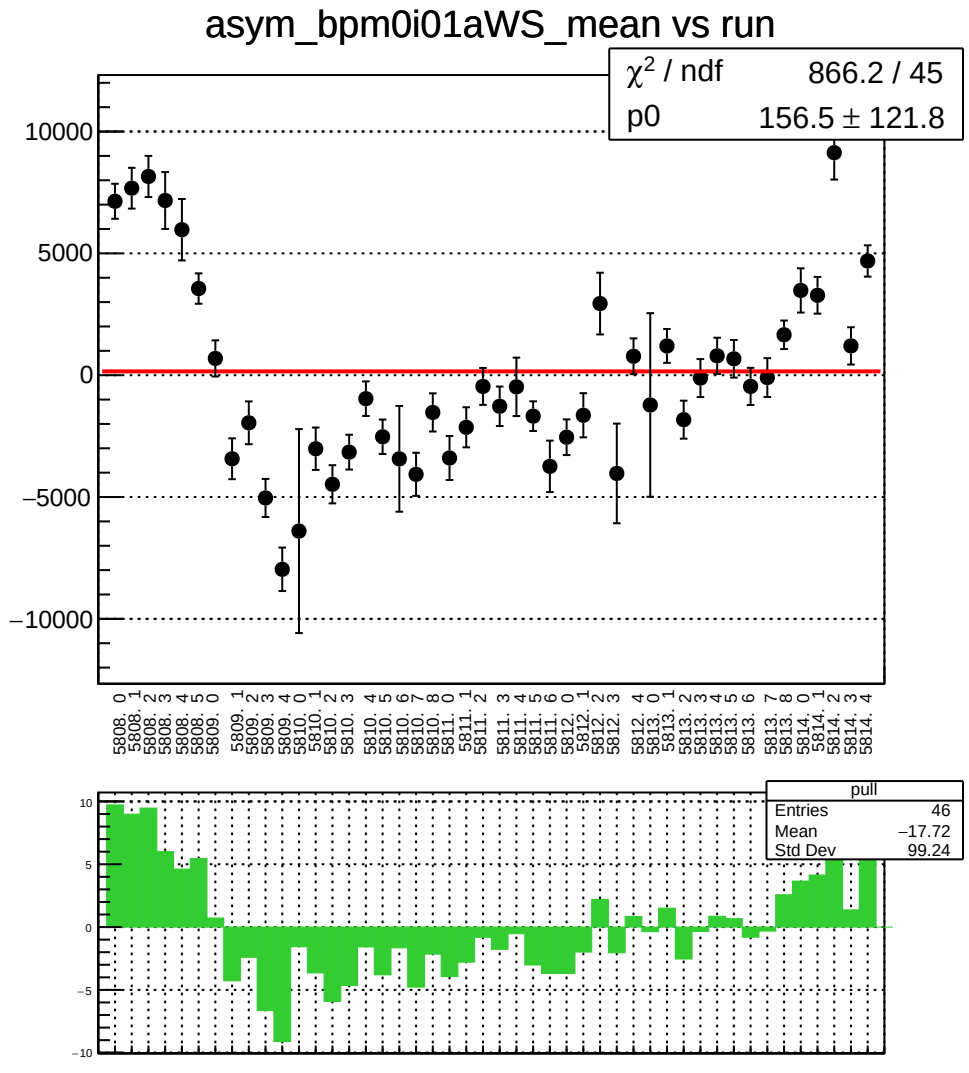
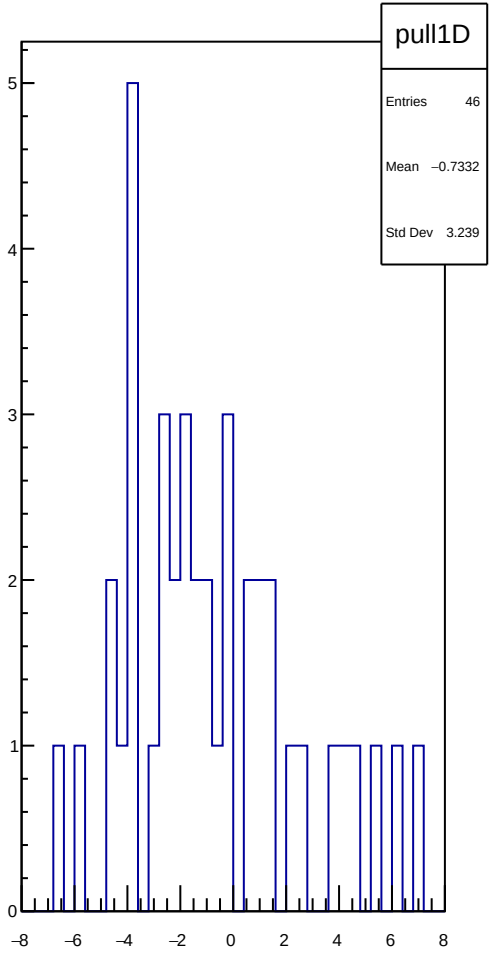
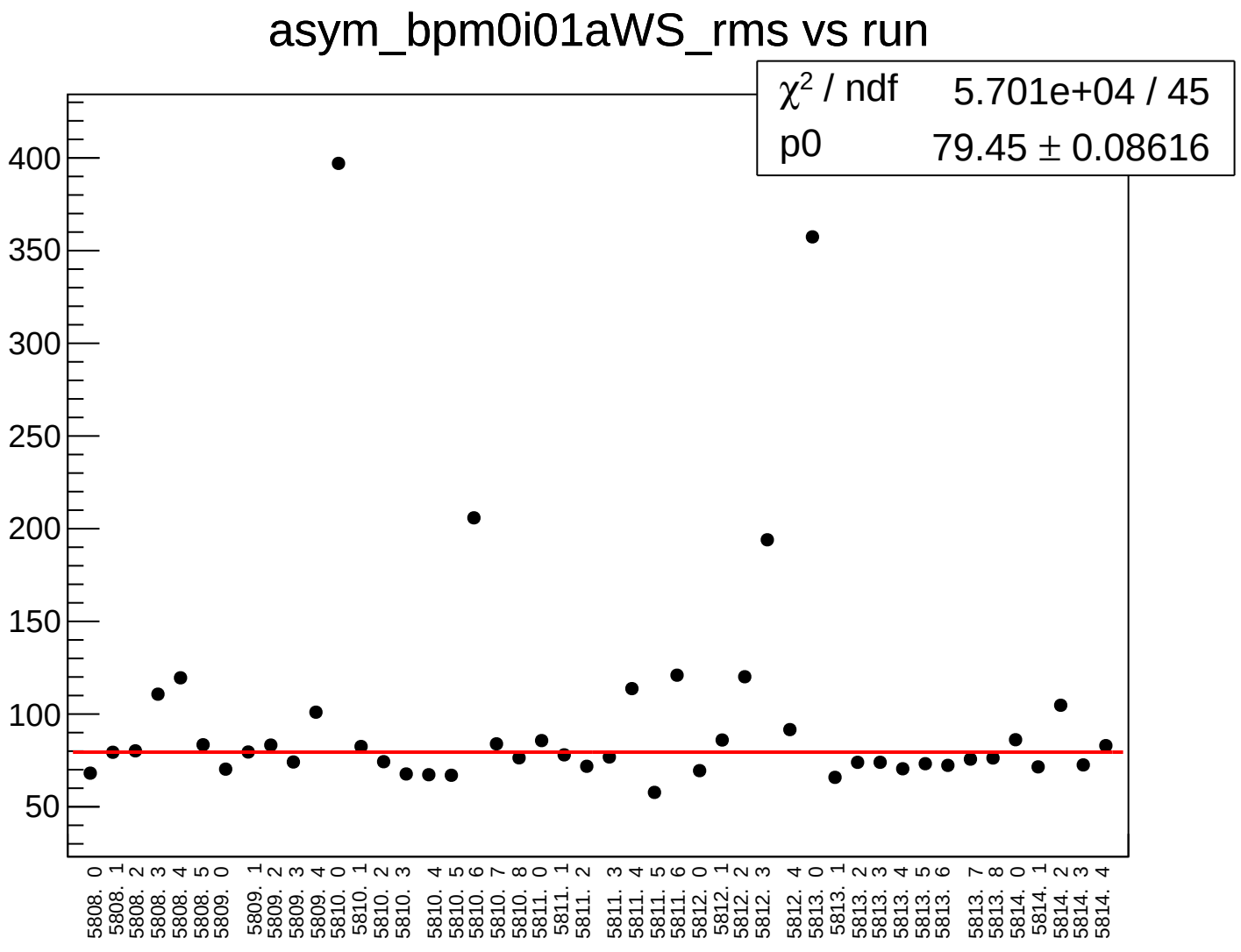
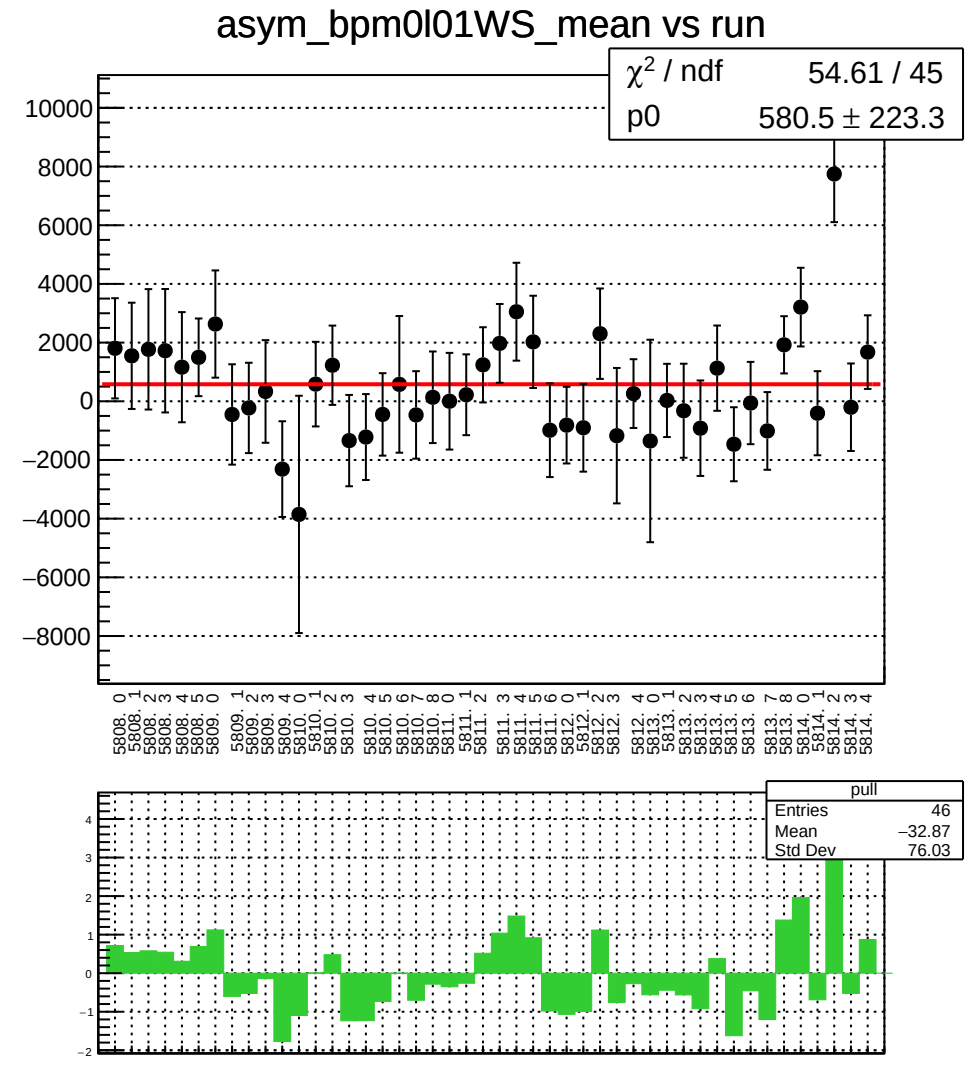
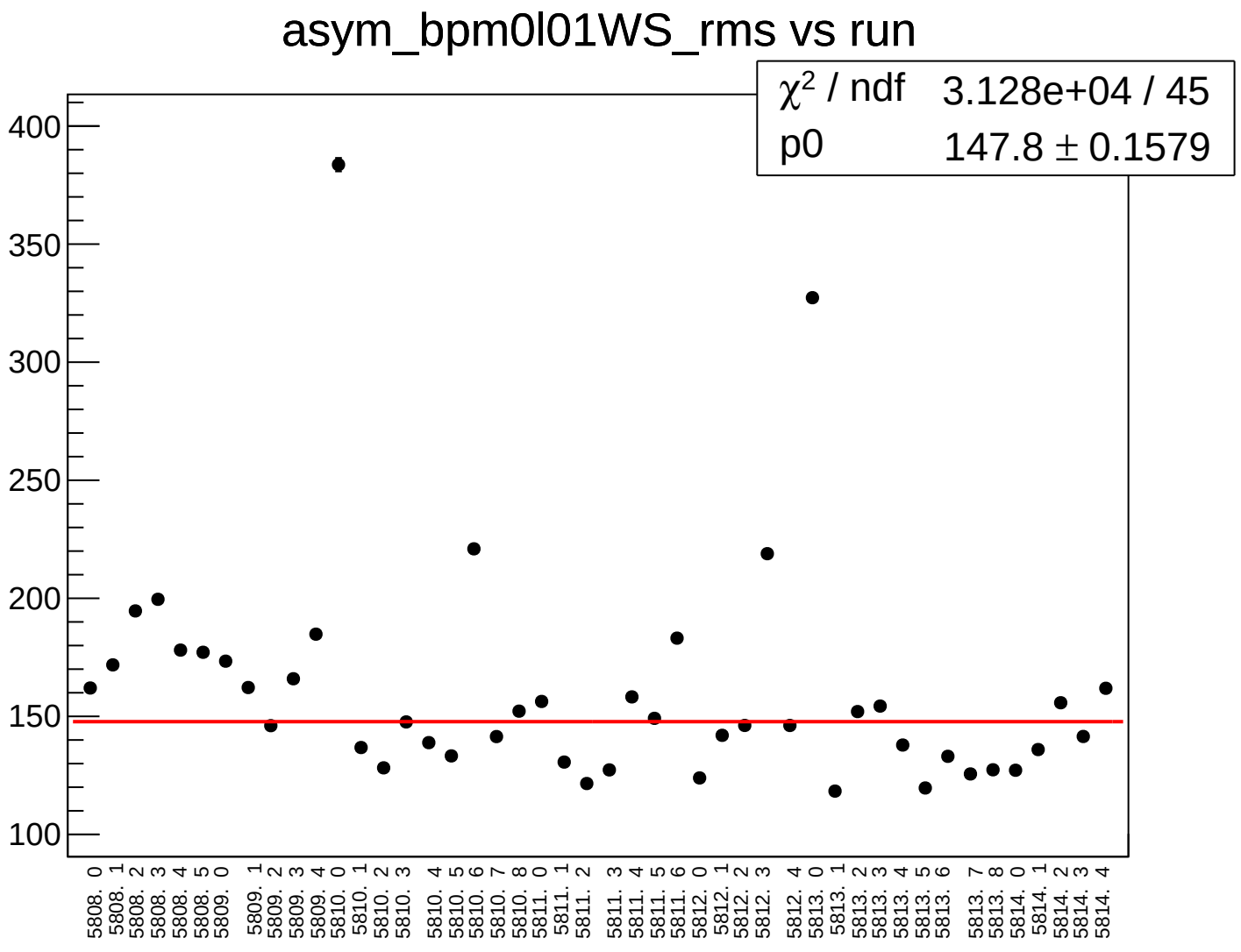
5814. 2
5814. 3
5814. 4


asym_bpm0i01aWS_mean vs run
χ² / ndf 866.2 / 45
p0 156.5 ± 121.8
10000
5000
0
−5000
−10000
pull
Entries 46
Mean −17.72
Std Dev 99.24
10
5
0
−5
−10


pull1D
Entries 46
Mean −0.7332
Std Dev 3.239
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i01aWS_rms vs run
χ² / ndf 5.701e+04 / 45
p0 79.45 ± 0.08616
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


asym_bpm0l01WS_mean vs run
χ² / ndf 54.61 / 45
p0 580.5 ± 223.3
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −32.87
Std Dev 76.03
4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.02113
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l01WS_rms vs run
χ² / ndf 3.128e+04 / 45
p0 147.8 ± 0.1579
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
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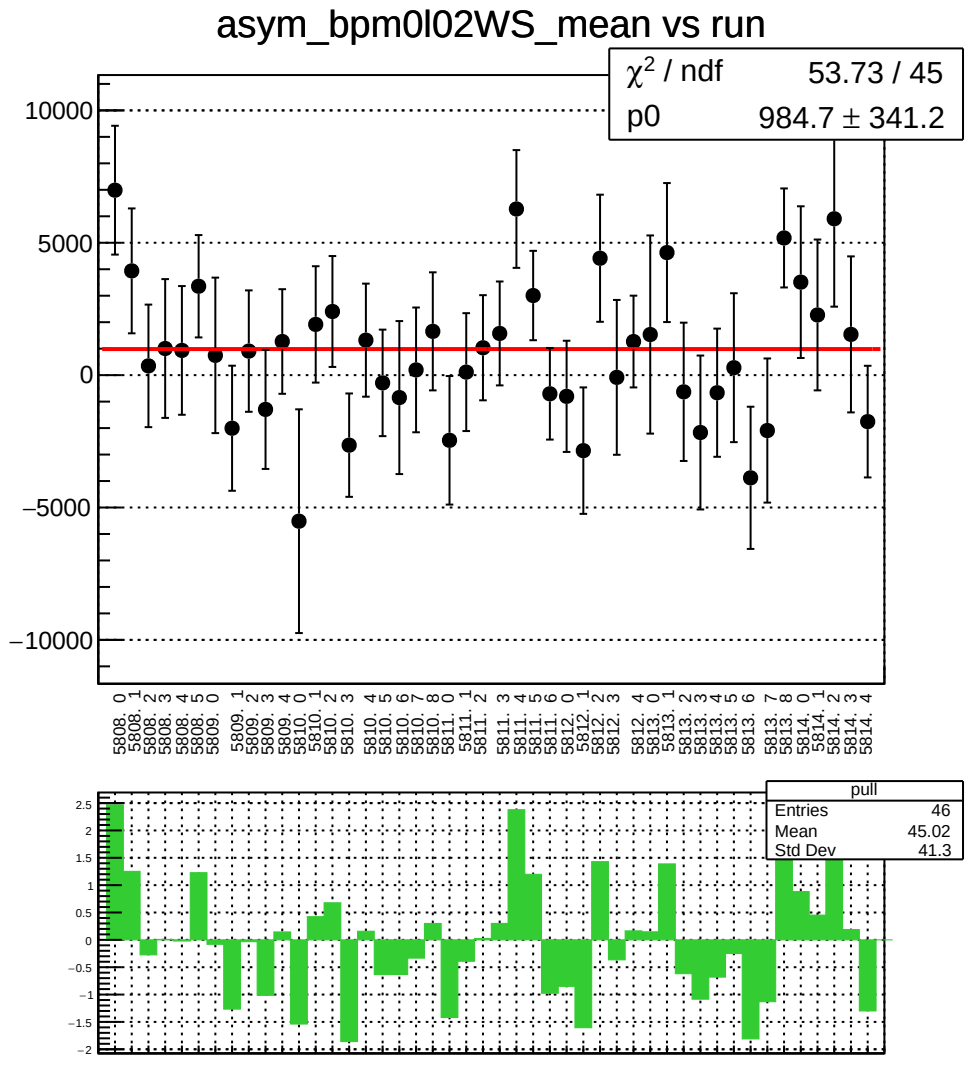
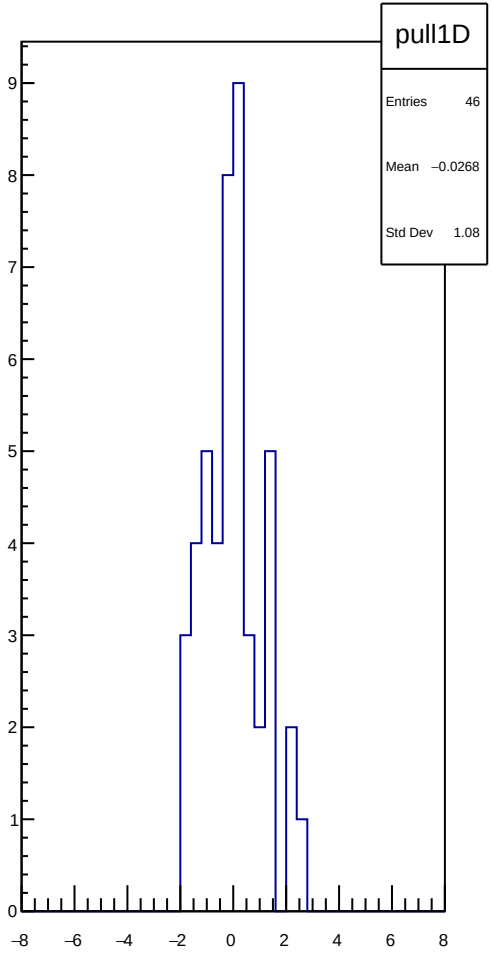
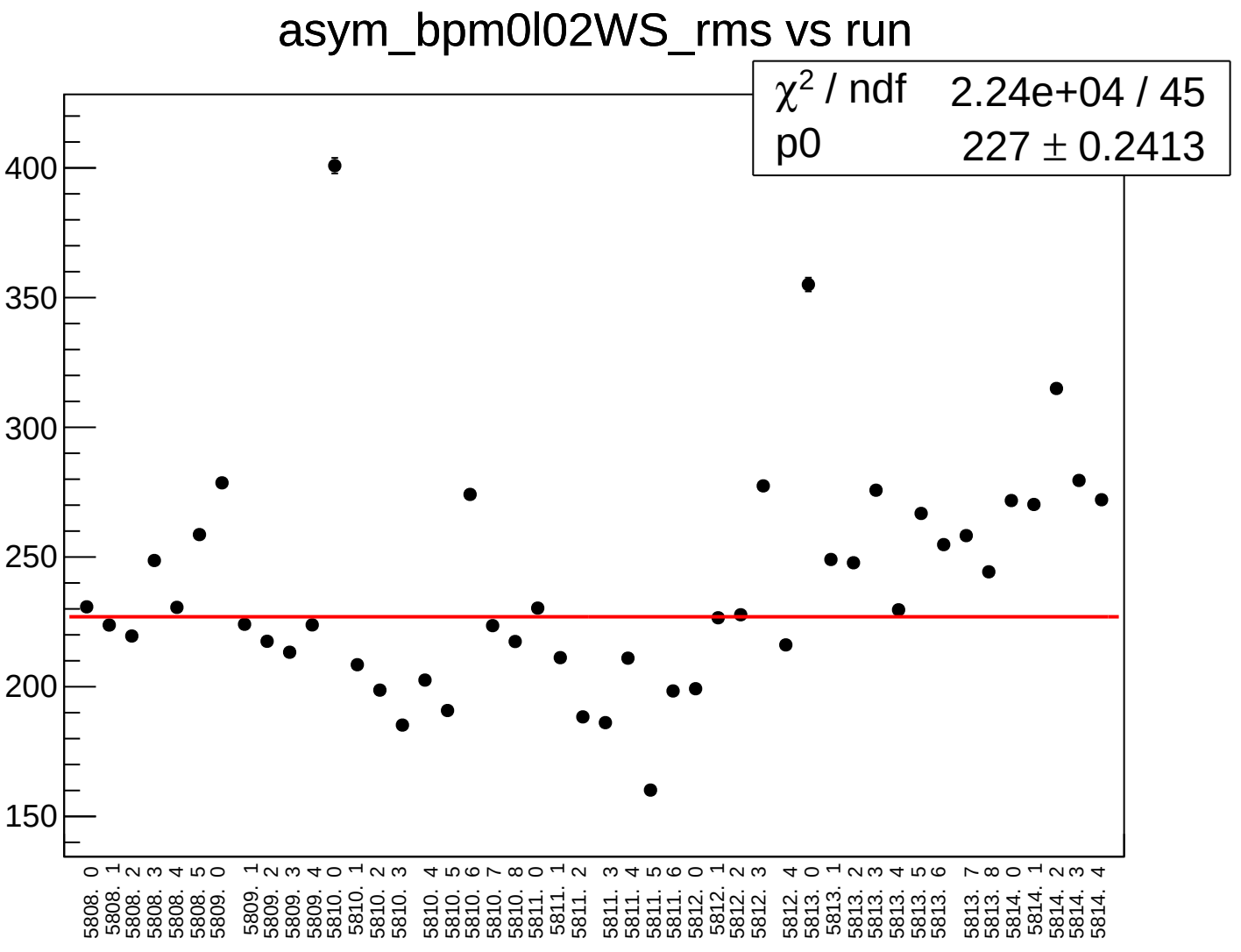
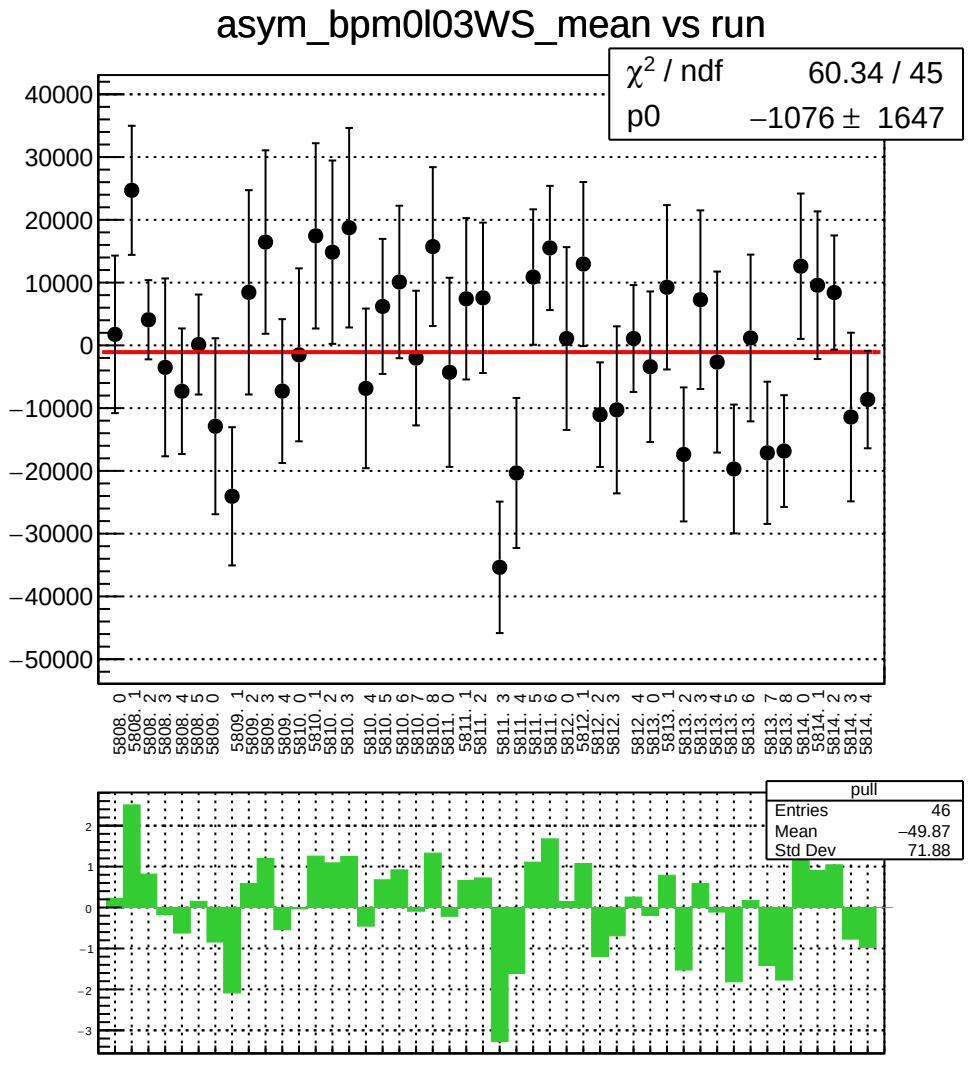
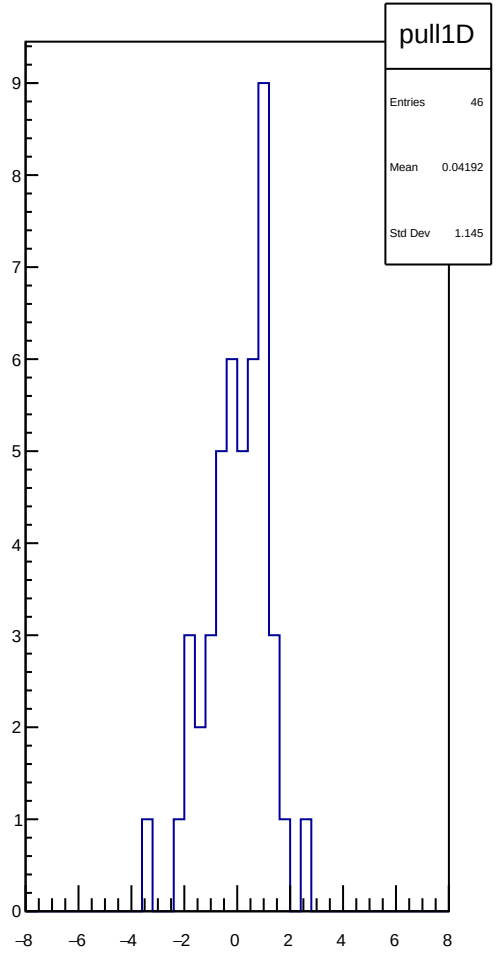
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

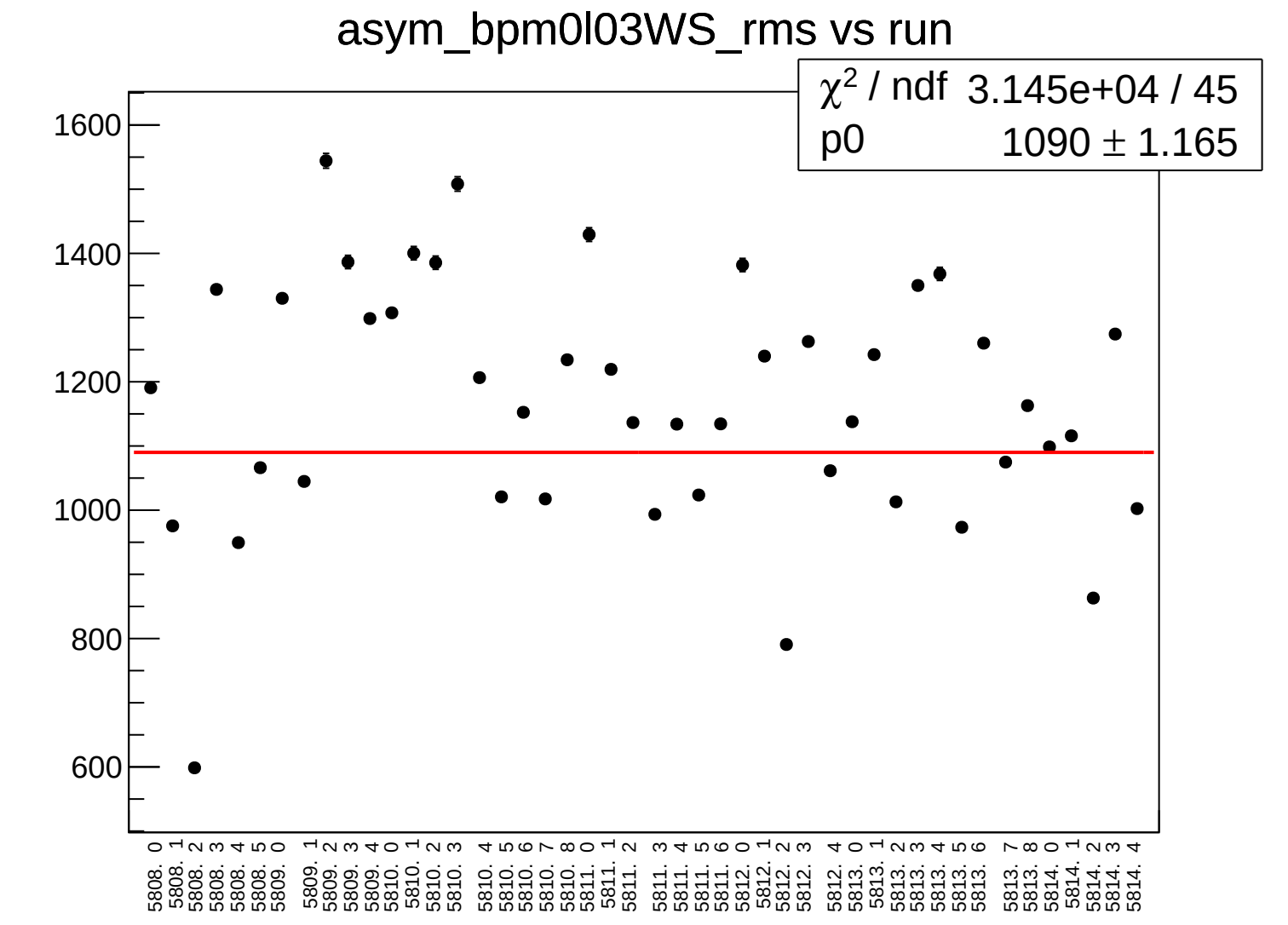

asym_bpm0l02WS_mean vs run
χ² / ndf 53.73 / 45
p0 984.7 ± 341.2
10000
5000
0
−5000
−10000
pull
Entries 46
Mean 45.02
Std Dev 41.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

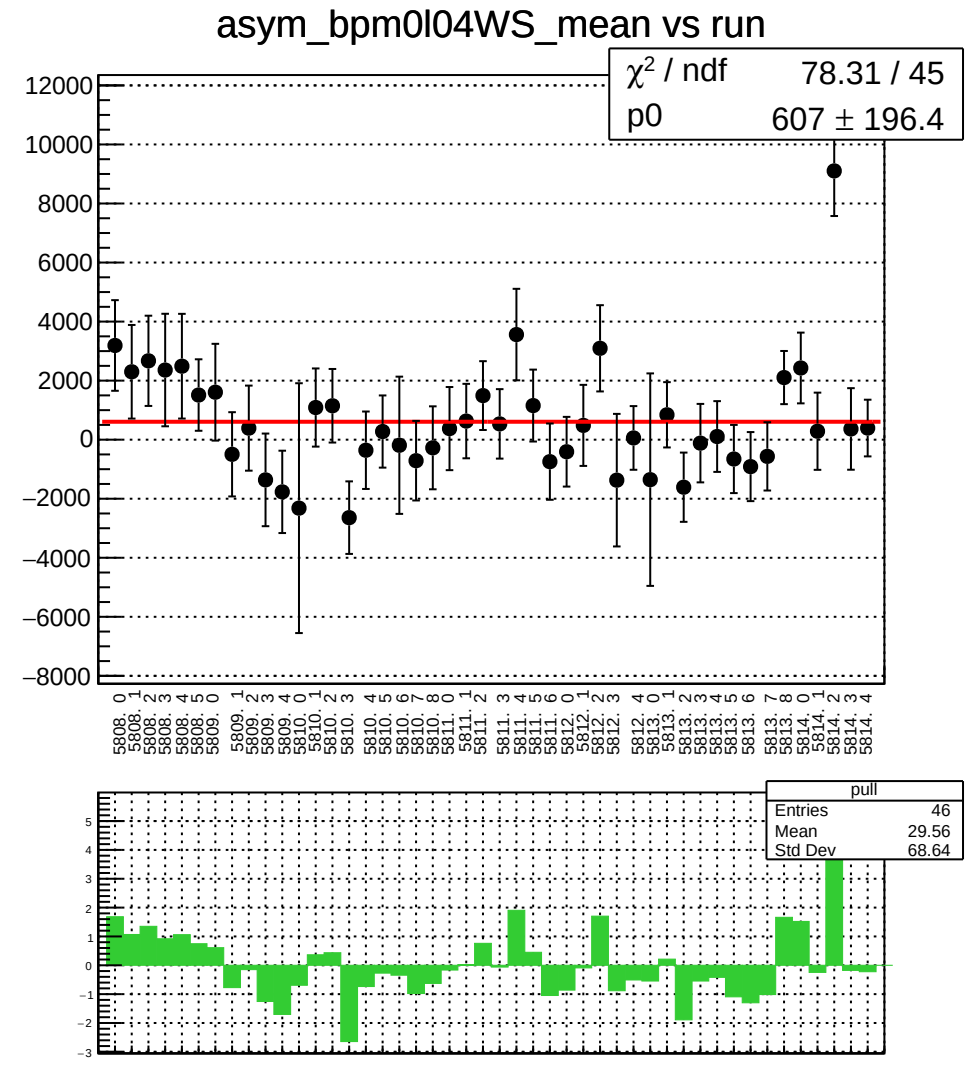

pull1D
Entries 46
Mean −0.0268
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

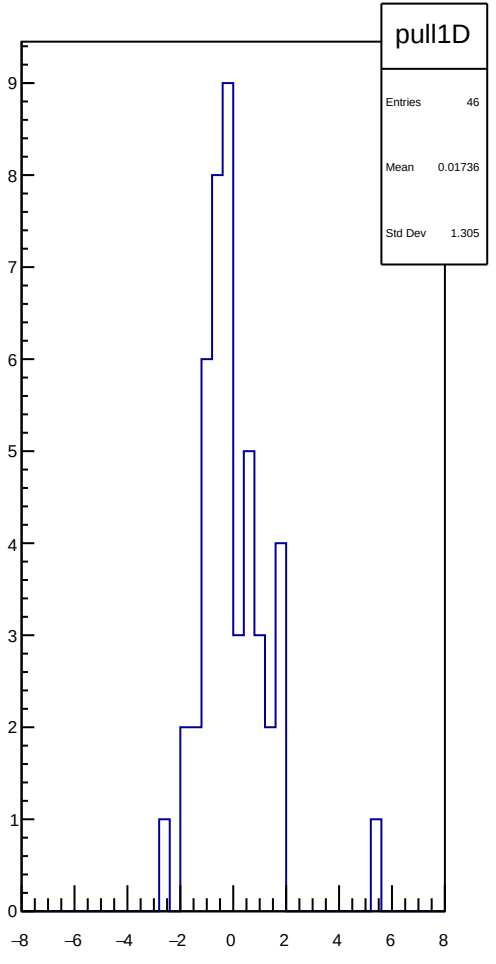

asym_bpm0l02WS_rms vs run
χ² / ndf 2.24e+04 / 45
p0 227 ± 0.2413
400
350
300
250
200
150
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

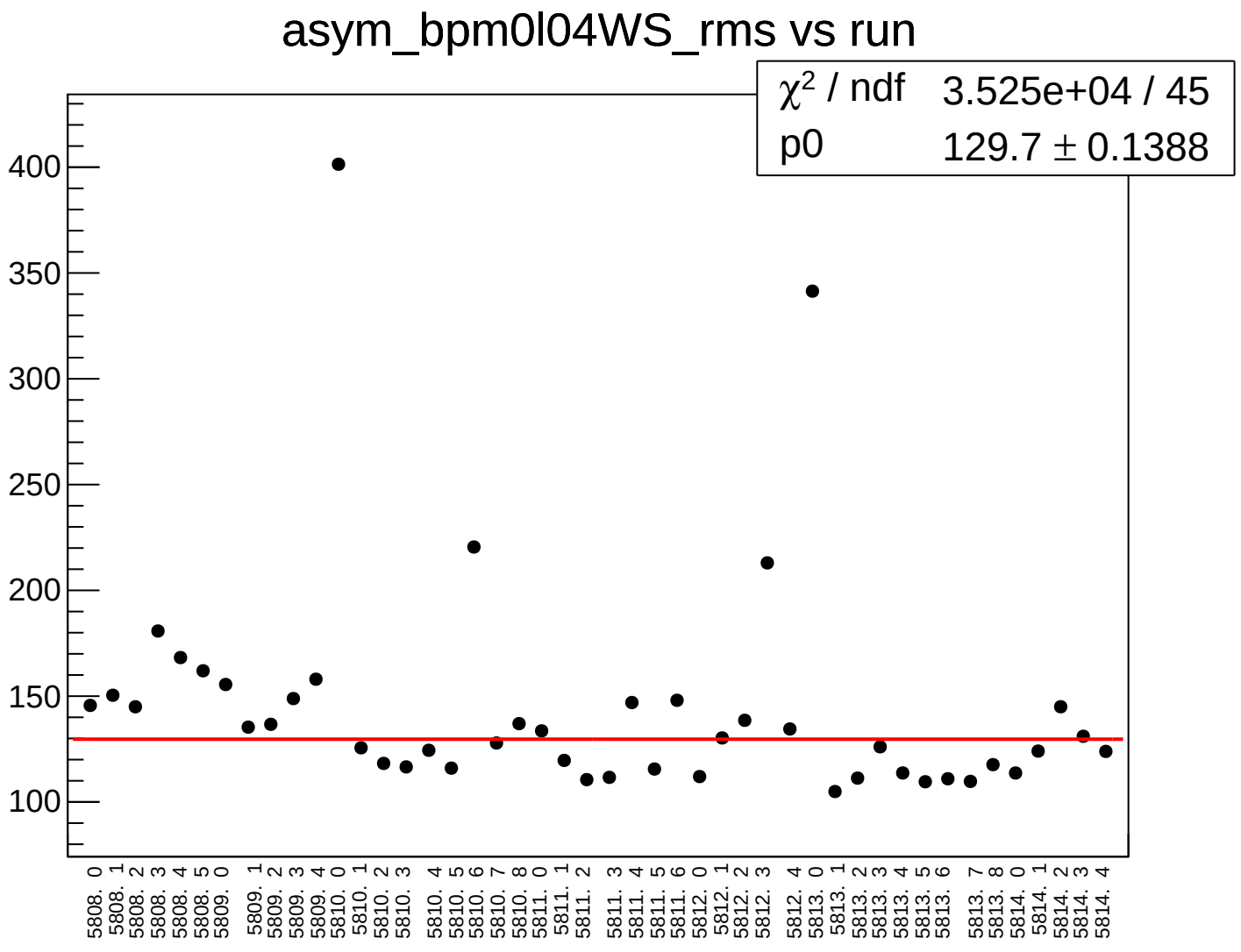

asym_bpm0l03WS_mean vs run
χ² / ndf 60.34 / 45
p0 −1076 ± 1647
pull
Entries 46
Mean −49.87
Std Dev 71.88

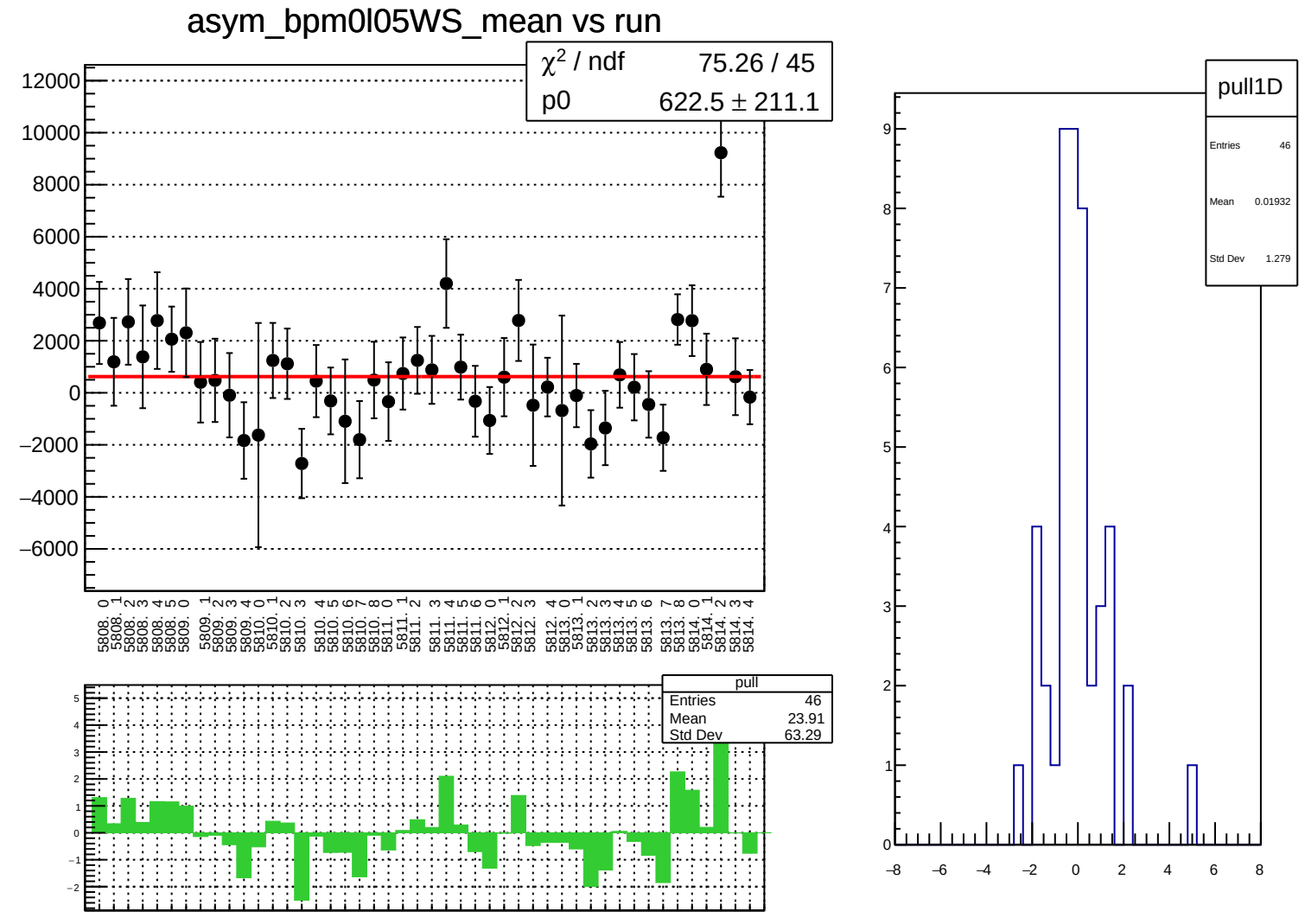

pull1D
Entries 46
Mean 0.04192
Std Dev 1.145

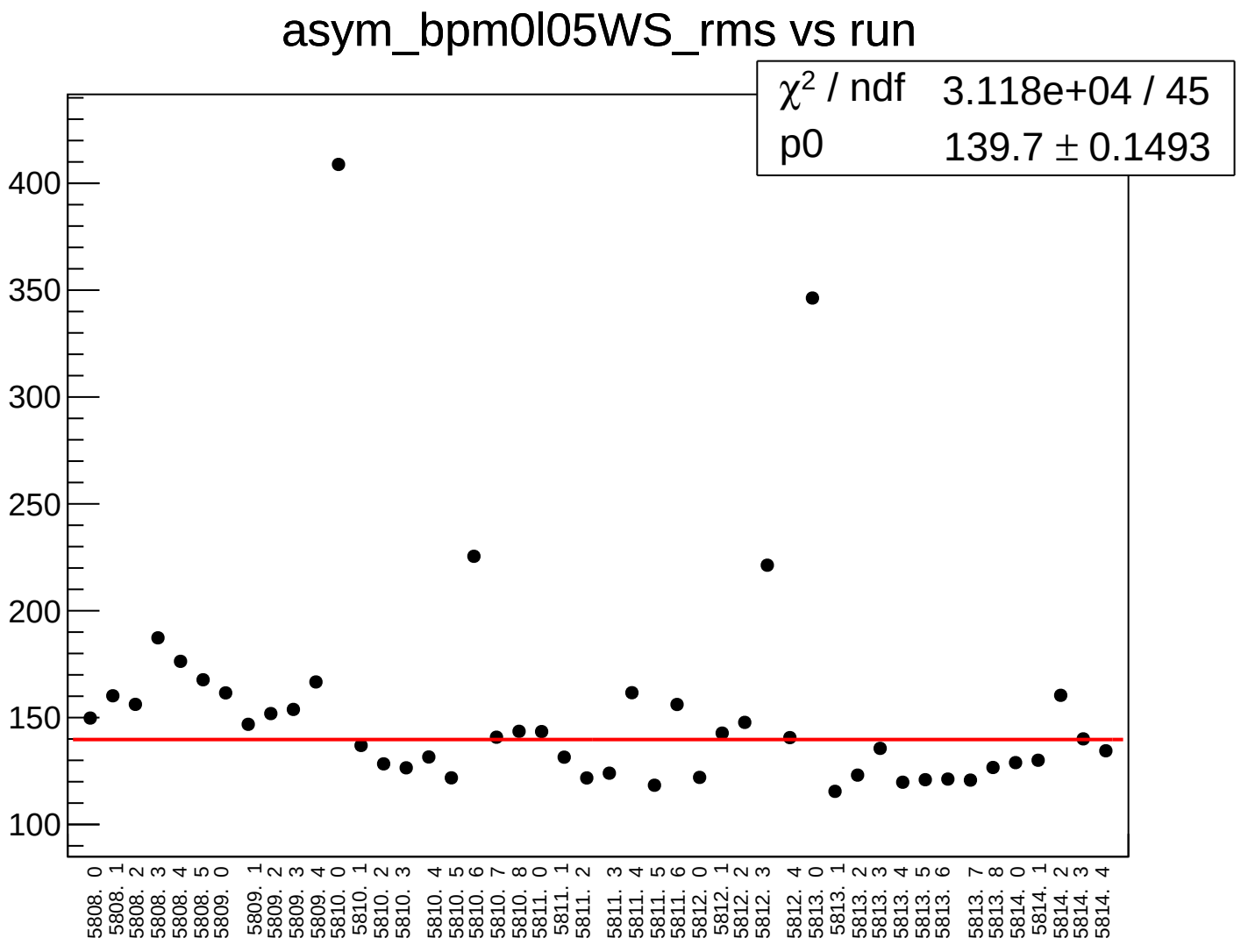

asym_bpm0l03WS_rms vs run
χ² / ndf 3.145e+04 / 45
p0 1090 ± 1.165
1600
1400
1200
1000
800
600
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

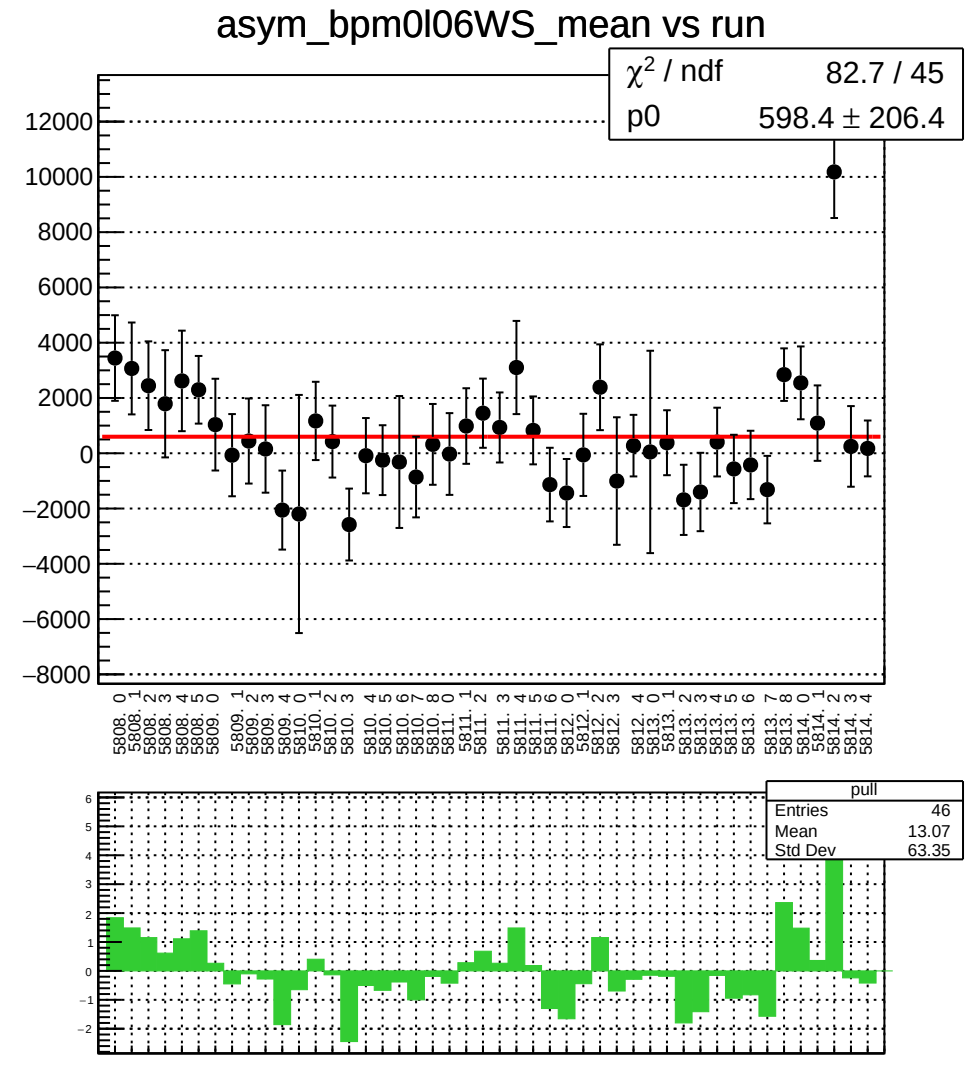

asym_bpm0l04WS_mean vs run
χ² / ndf 78.31 / 45
p0 607 ± 196.4
pull
Entries 46
Mean 29.56
Std Dev 68.64

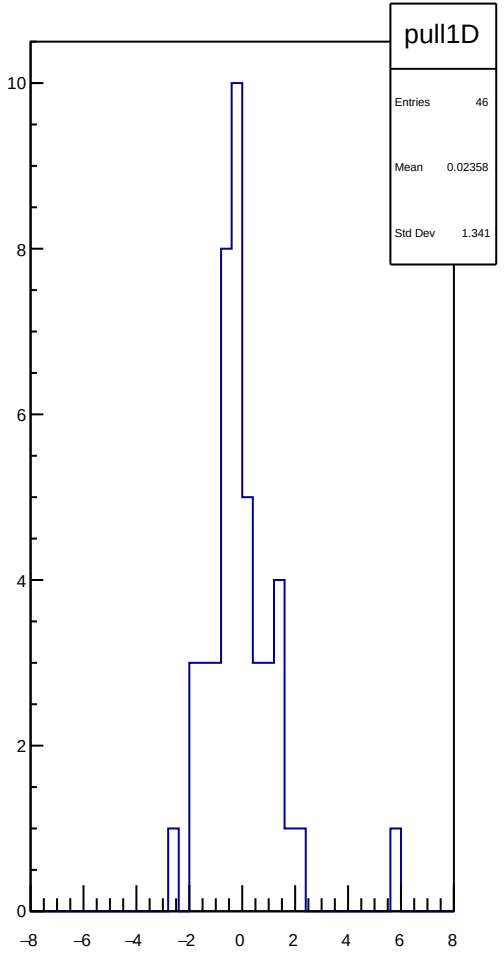

pull1D
Entries 46
Mean 0.01736
Std Dev 1.305

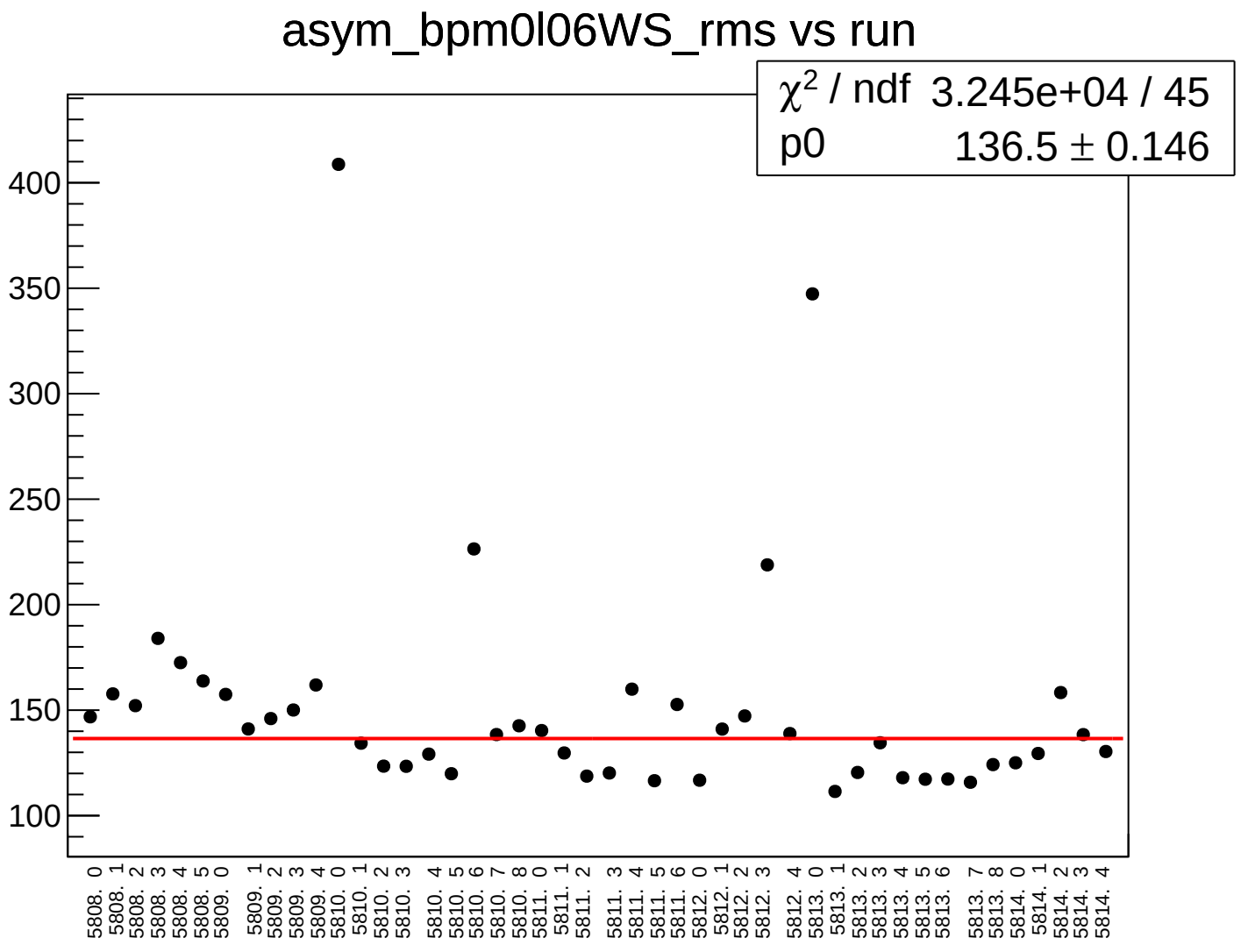

asym_bpm0l04WS_rms vs run
χ² / ndf 3.525e+04 / 45
p0 129.7 ± 0.1388
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

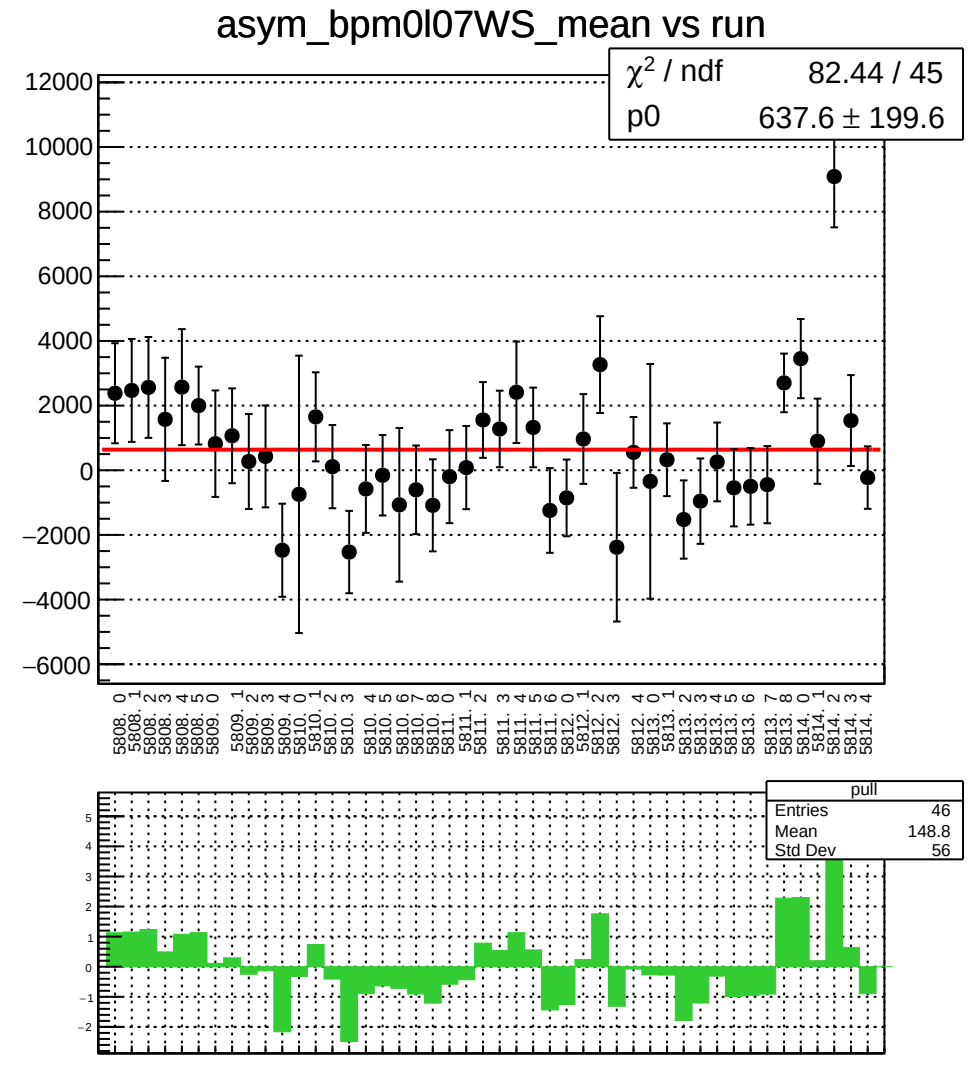

asym_bpm0l05WS_mean vs run
χ² / ndf 75.26 / 45
p0 622.5 ± 211.1
pull
Entries 46
Mean 23.91
Std Dev 63.29
pull1D
Entries 46
Mean 0.01932
Std Dev 1.279

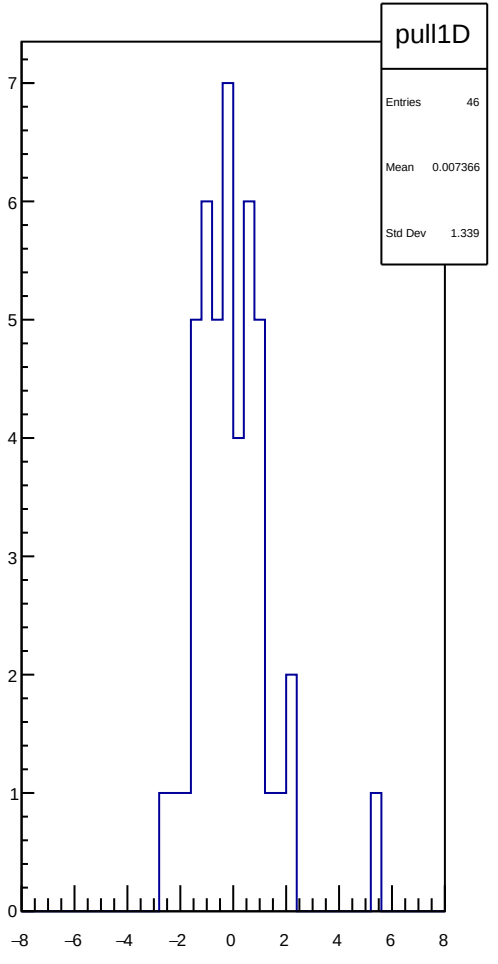

asym_bpm0l05WS_rms vs run
χ² / ndf 3.118e+04 / 45
p0 139.7 ± 0.1493
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

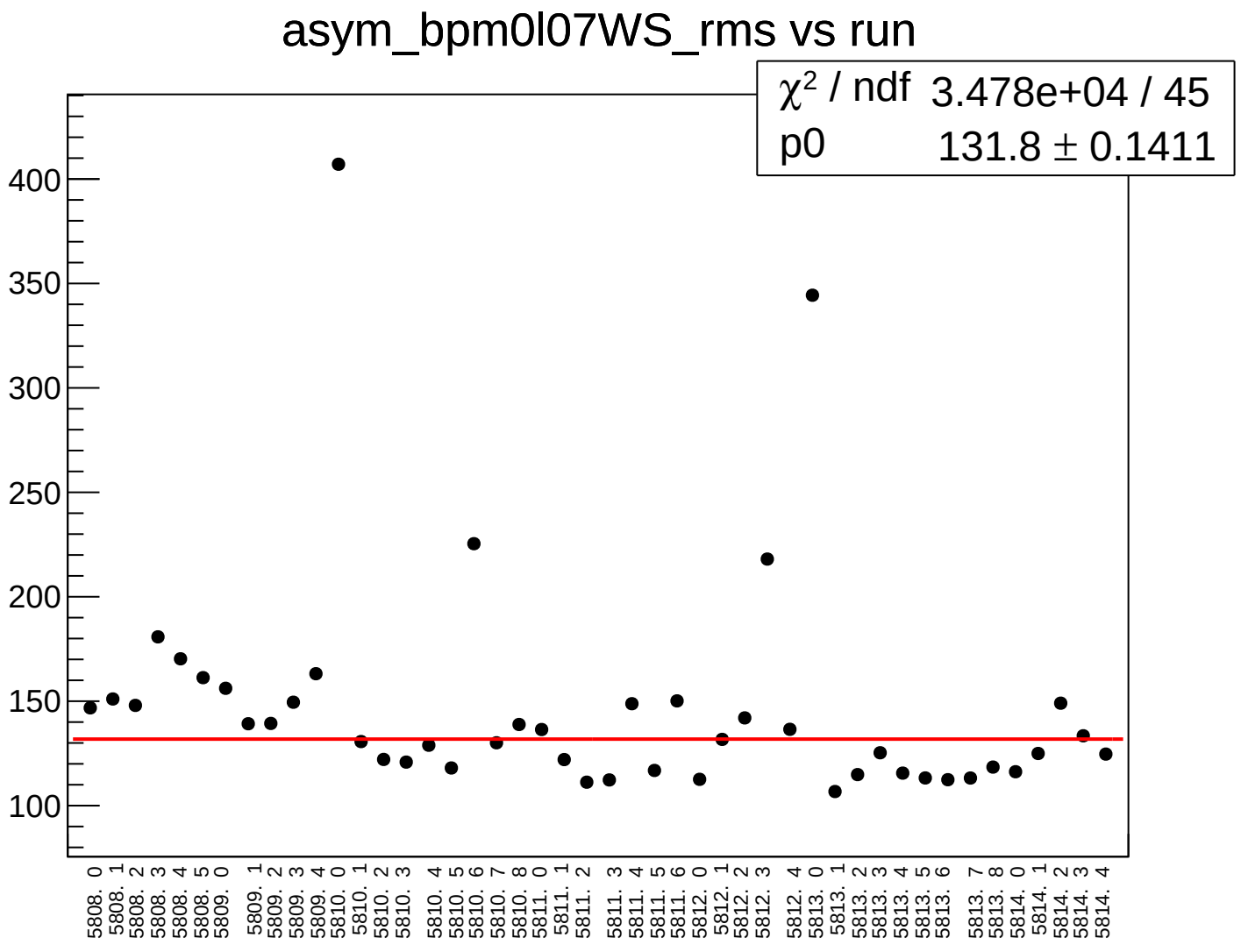

asym_bpm0l06WS_mean vs run
χ² / ndf 82.7 / 45
p0 598.4 ± 206.4
pull
Entries 46
Mean 13.07
Std Dev 63.35

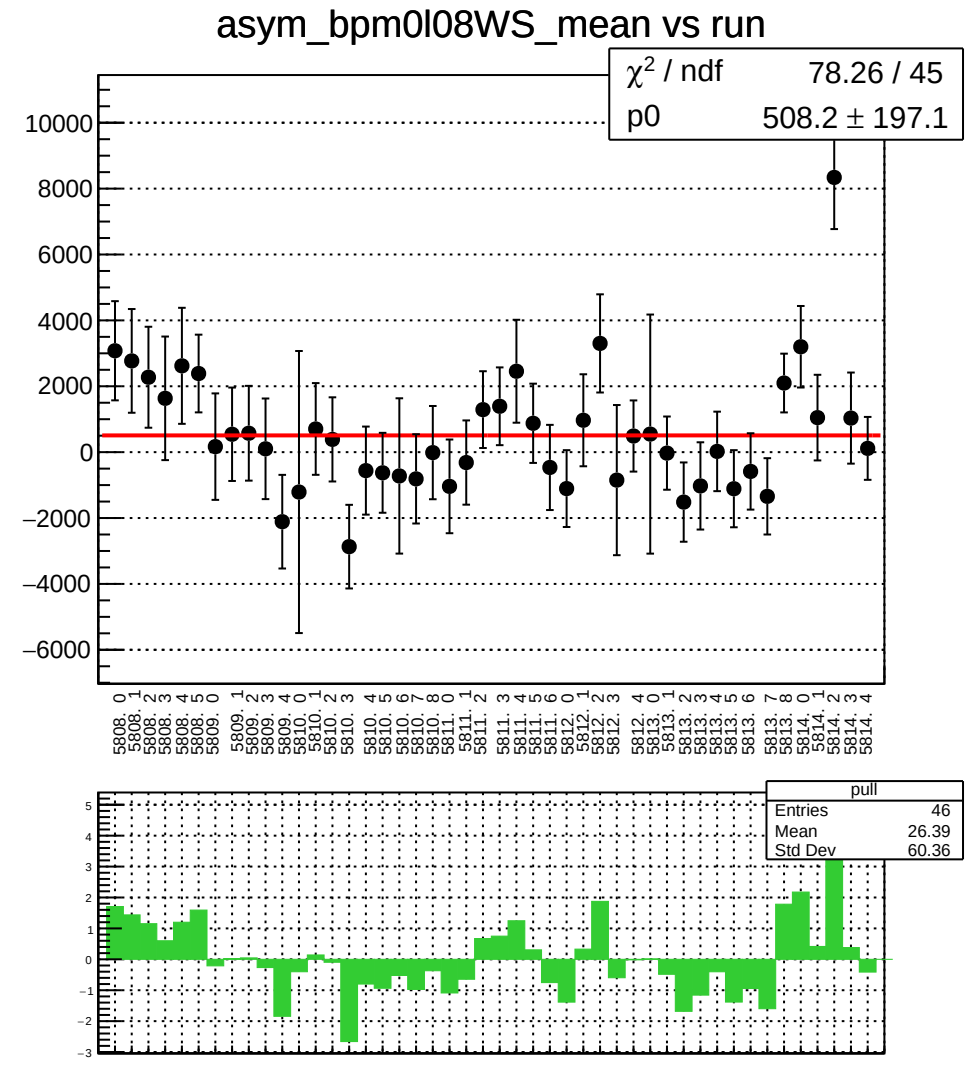

pull1D
Entries 46
Mean 0.02358
Std Dev 1.341

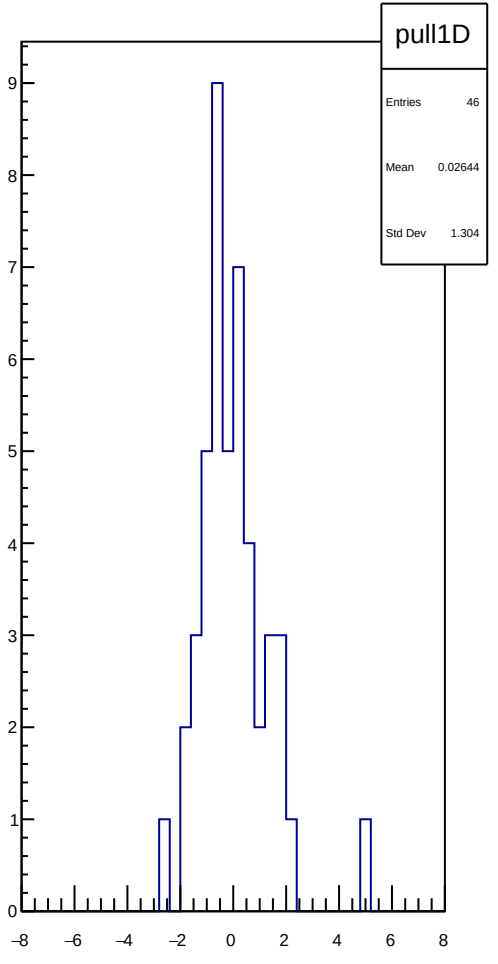

asym_bpm0l06WS_rms vs run
χ² / ndf 3.245e+04 / 45
p0 136.5 ± 0.146
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

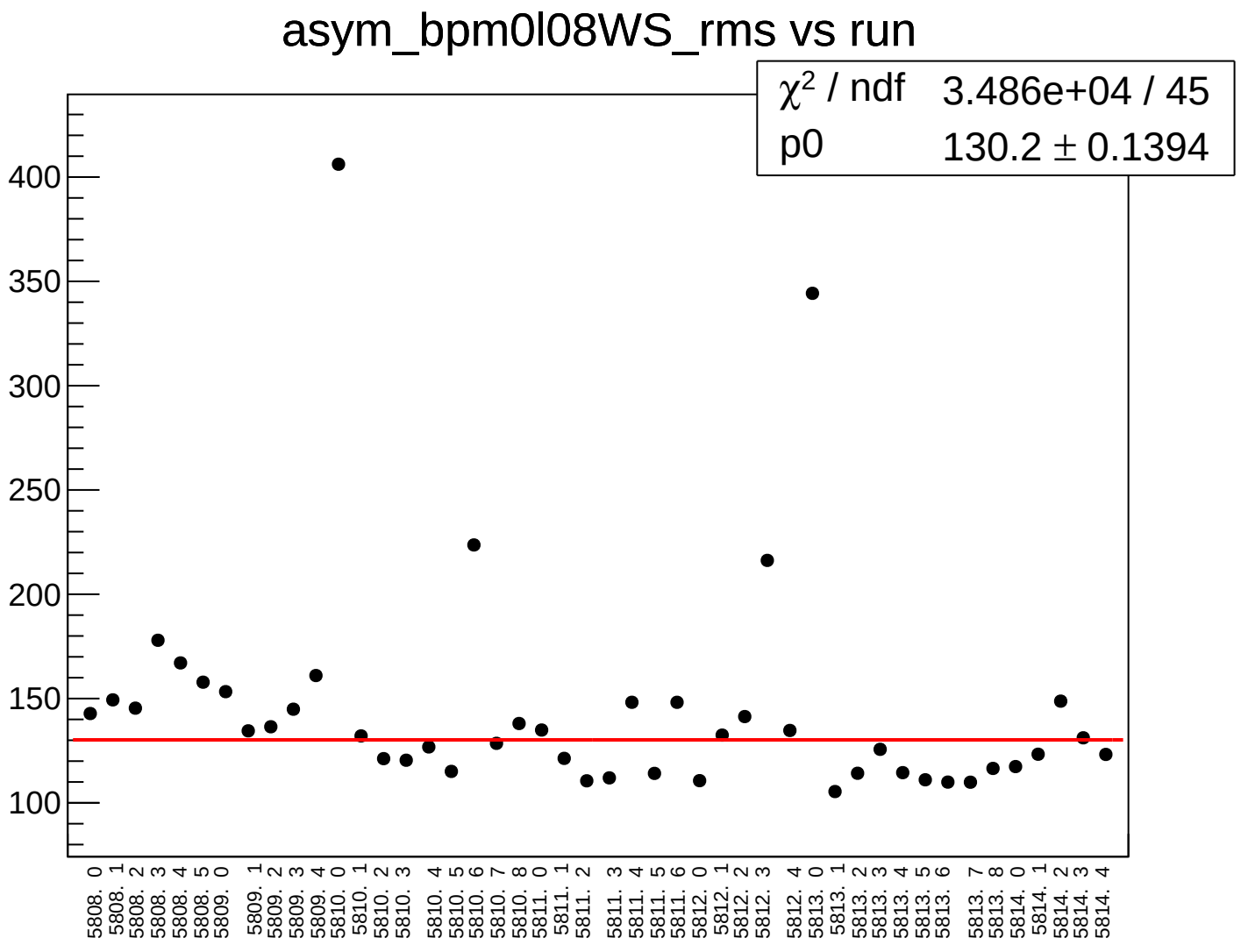

asym_bpm0l07WS_mean vs run
χ² / ndf 82.44 / 45
p0 637.6 ± 199.6
pull
Entries 46
Mean 148.8
Std Dev 56


pull1D
Entries 46
Mean 0.007366
Std Dev 1.339


asym_bpm0l07WS_rms vs run
χ² / ndf 3.478e+04 / 45
p0 131.8 ± 0.1411
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


asym_bpm0l08WS_mean vs run
χ² / ndf 78.26 / 45
p0 508.2 ± 197.1
pull
Entries 46
Mean 26.39
Std Dev 60.36


pull1D
Entries 46
Mean 0.02644
Std Dev 1.304


asym_bpm0l08WS_rms vs run
χ² / ndf 3.486e+04 / 45
p0 130.2 ± 0.1394
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
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5813. 3
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5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
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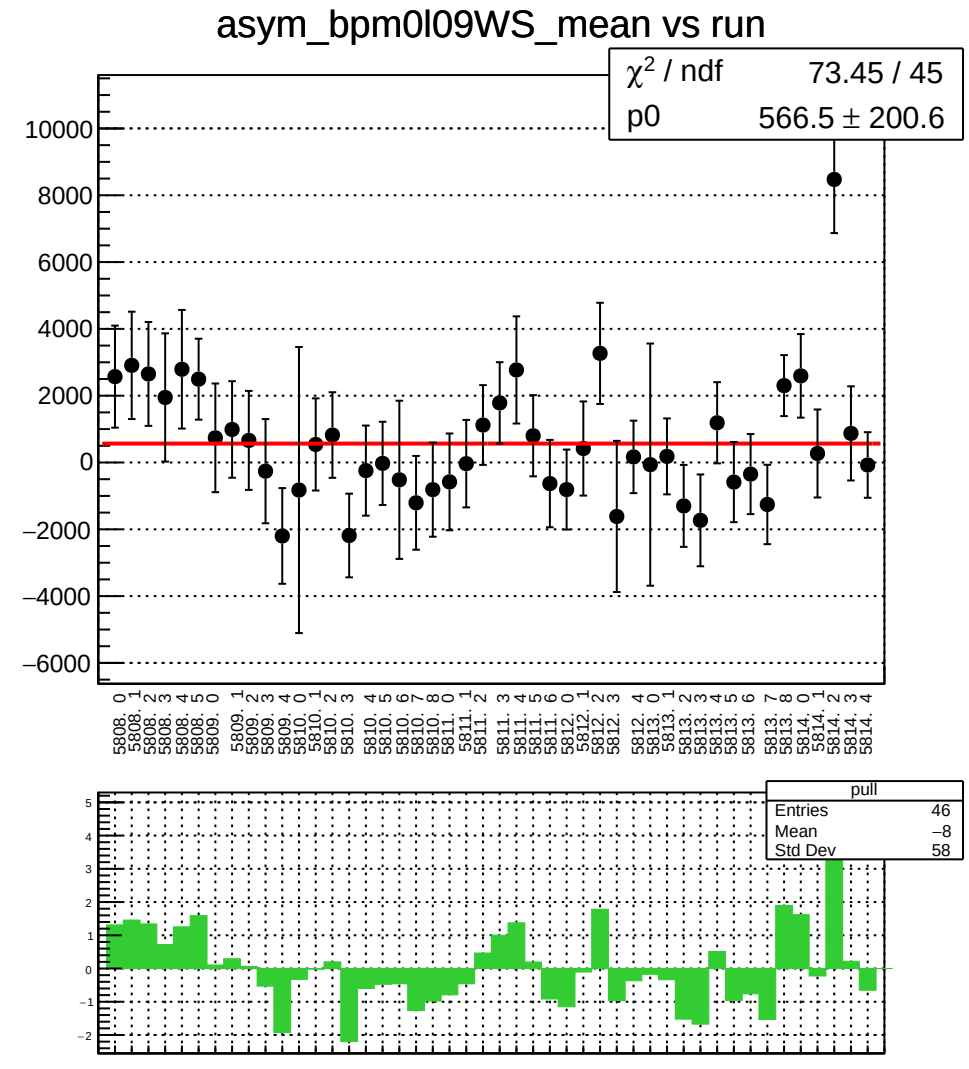
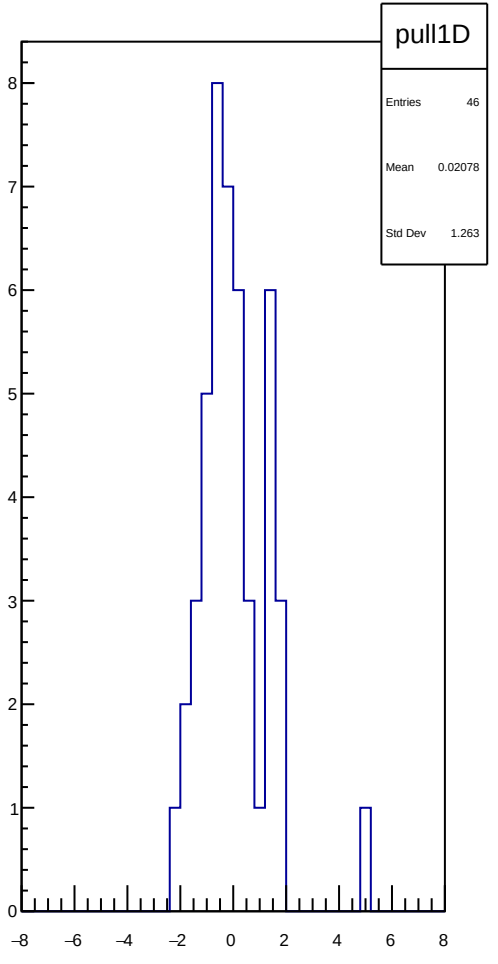
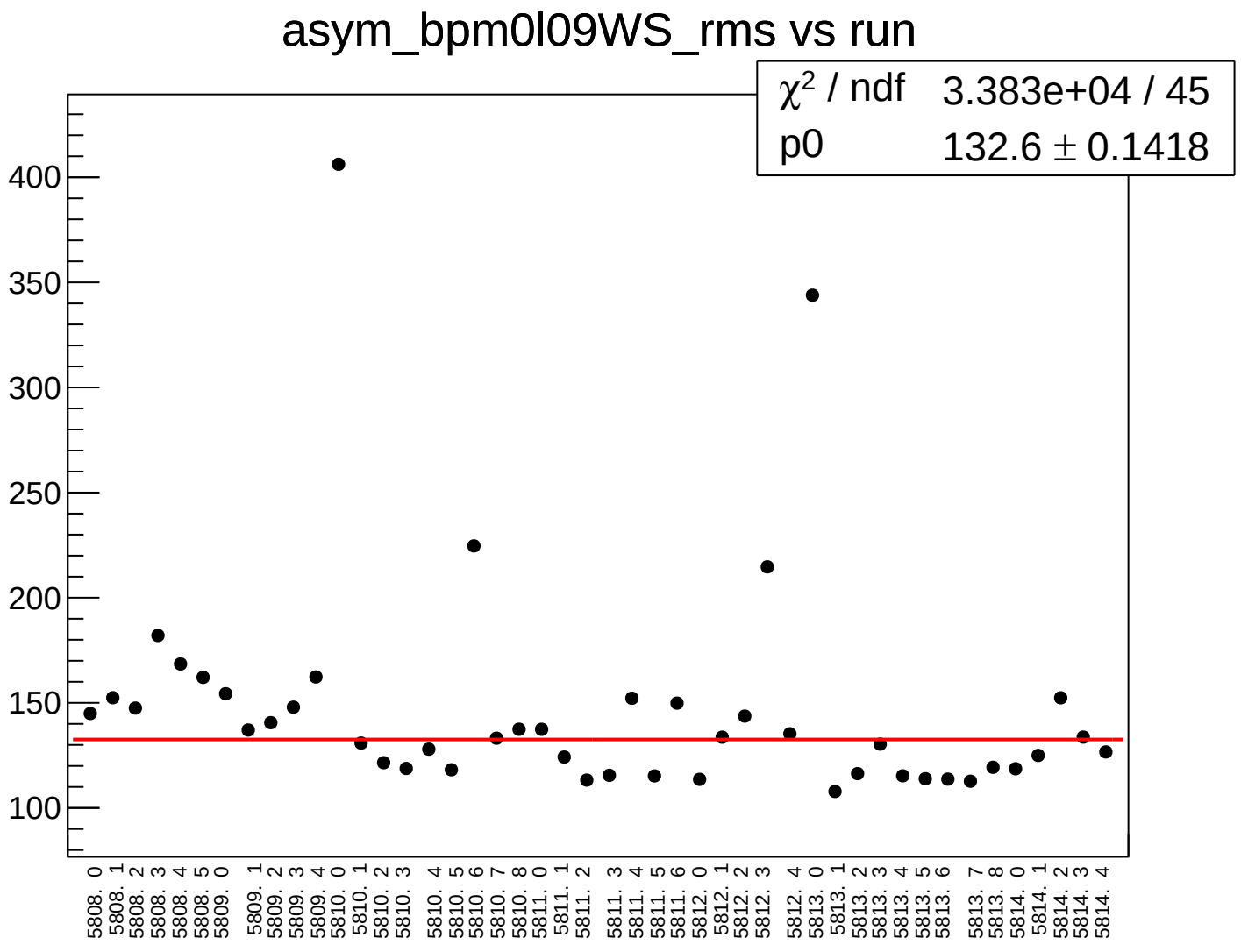
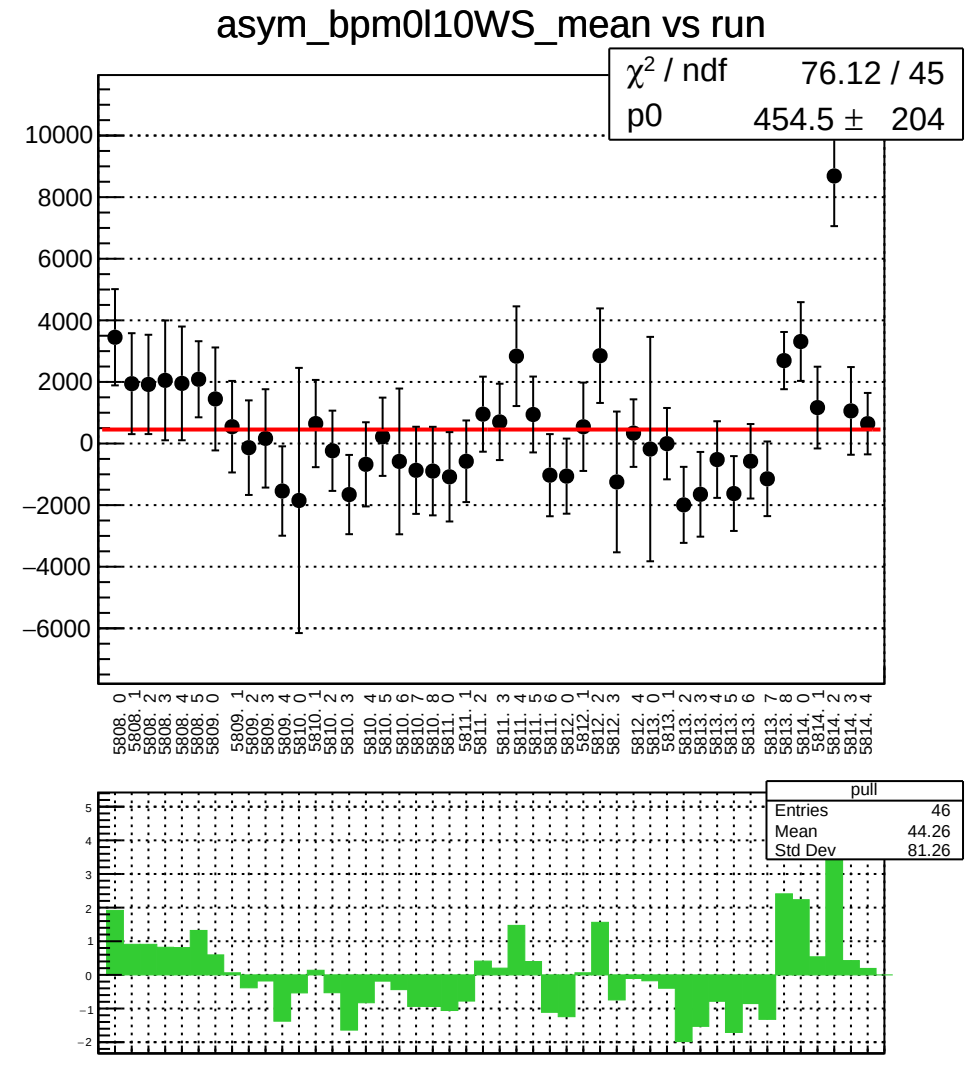
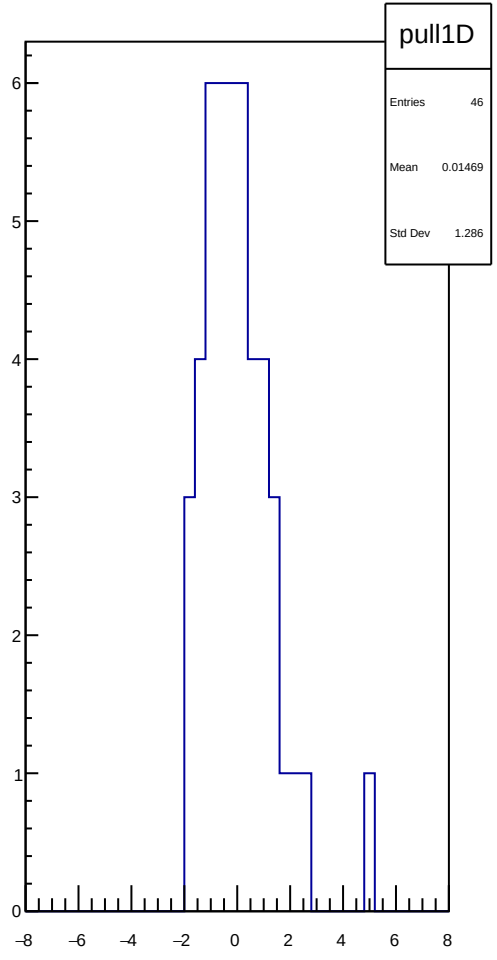
5814. 4

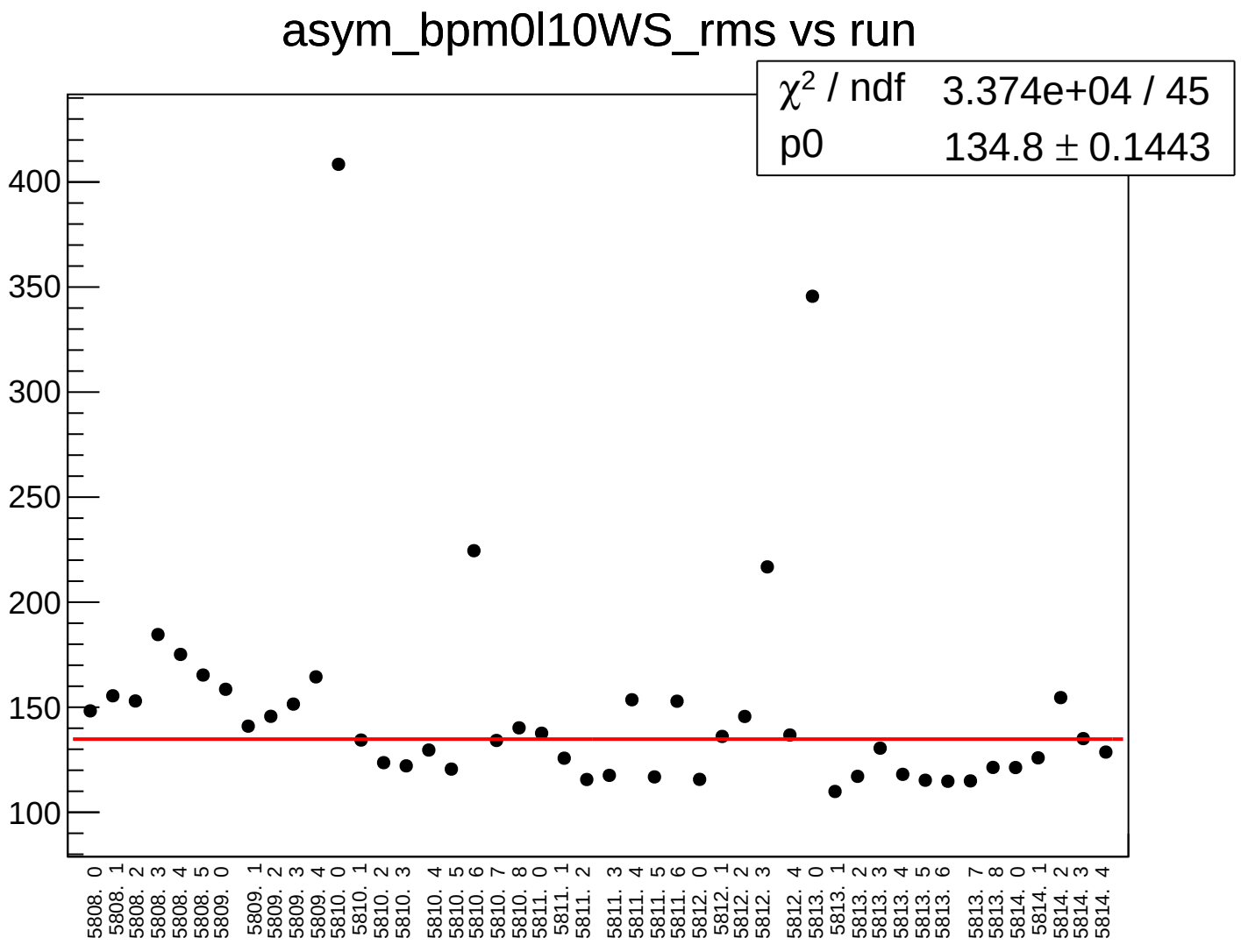

asym_bpm0l09WS_mean vs run
χ² / ndf 73.45 / 45
p0 566.5 ± 200.6
pull
Entries 46
Mean −8
Std Dev 58

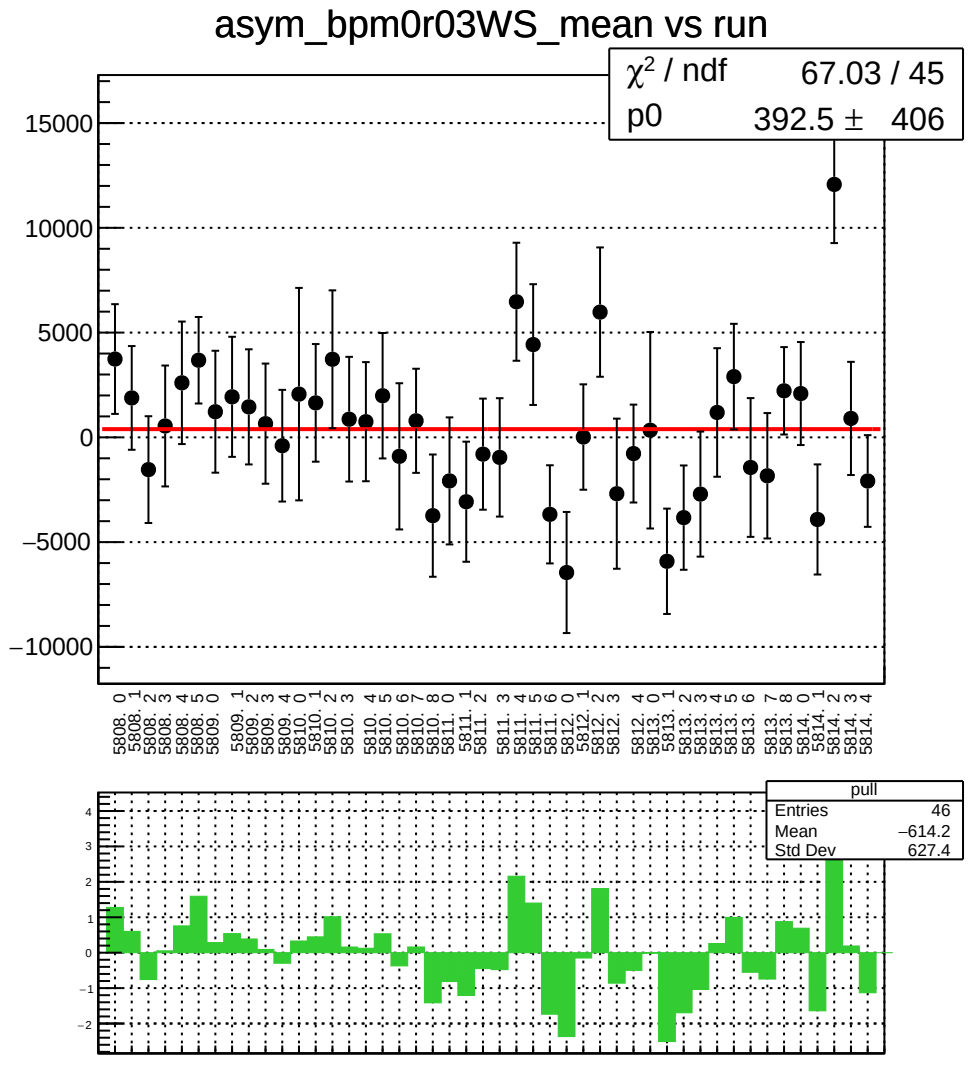

pull1D
Entries 46
Mean 0.02078
Std Dev 1.263

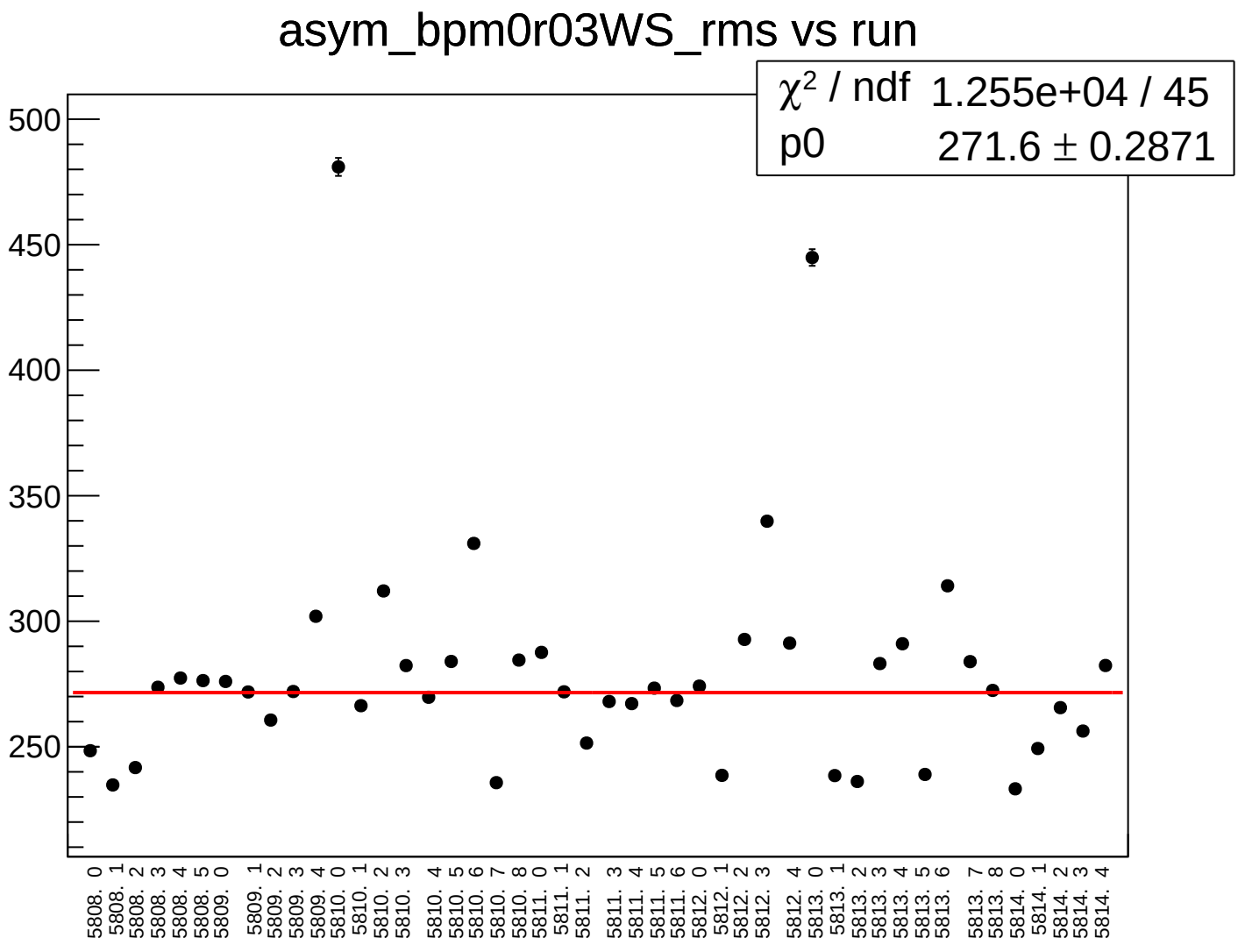

asym_bpm0l09WS_rms vs run
χ² / ndf 3.383e+04 / 45
p0 132.6 ± 0.1418
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

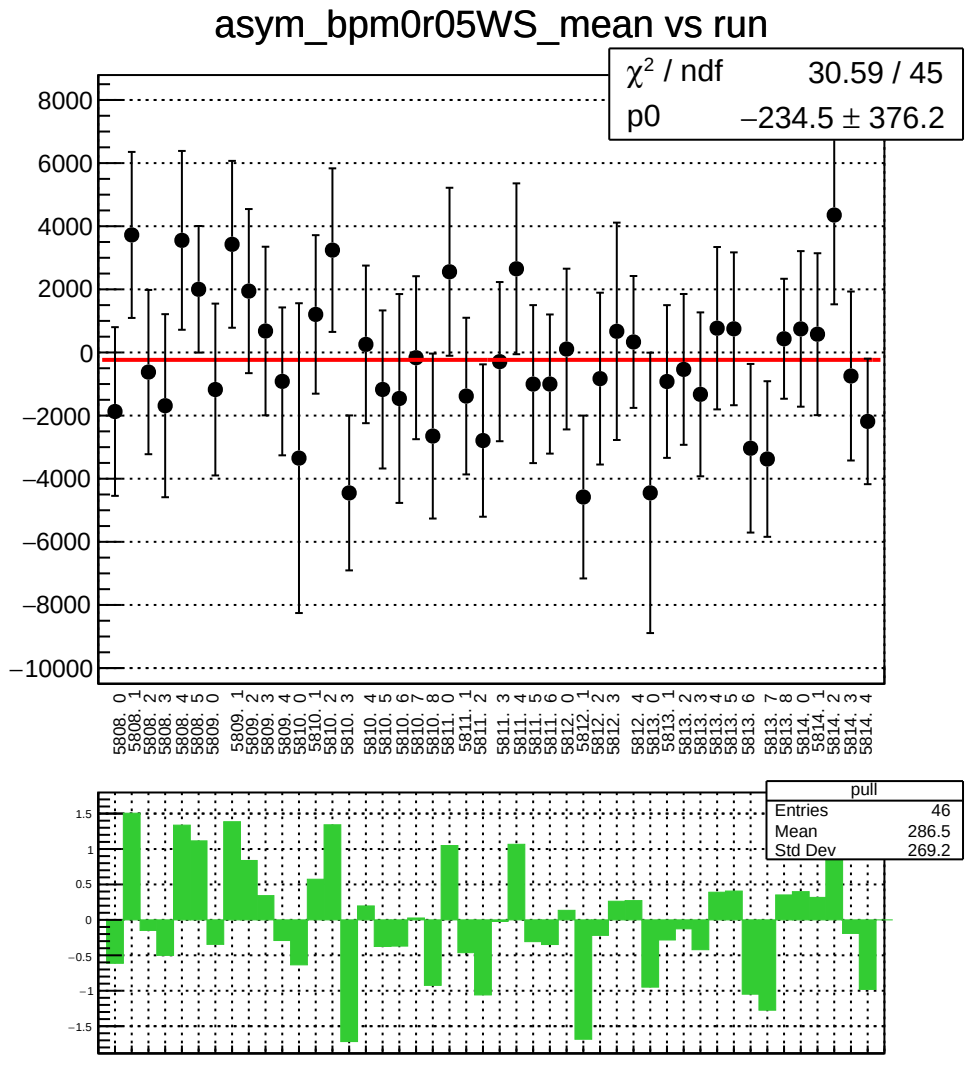

asym_bpm0l10WS_mean vs run
χ² / ndf 76.12 / 45
p0 454.5 ± 204
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 44.26
Std Dev 81.26
5
4
3
2
1
0
−1
−2

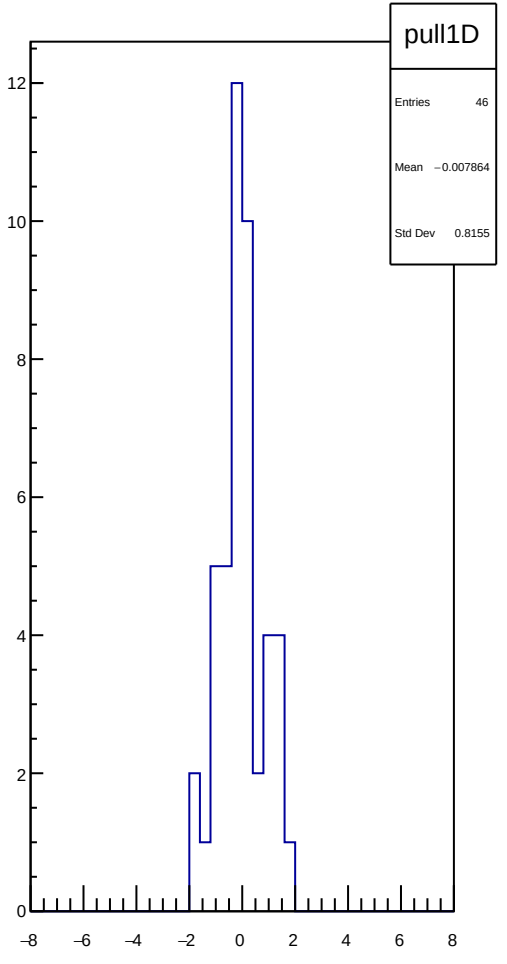

pull1D
Entries 46
Mean 0.01469
Std Dev 1.286
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

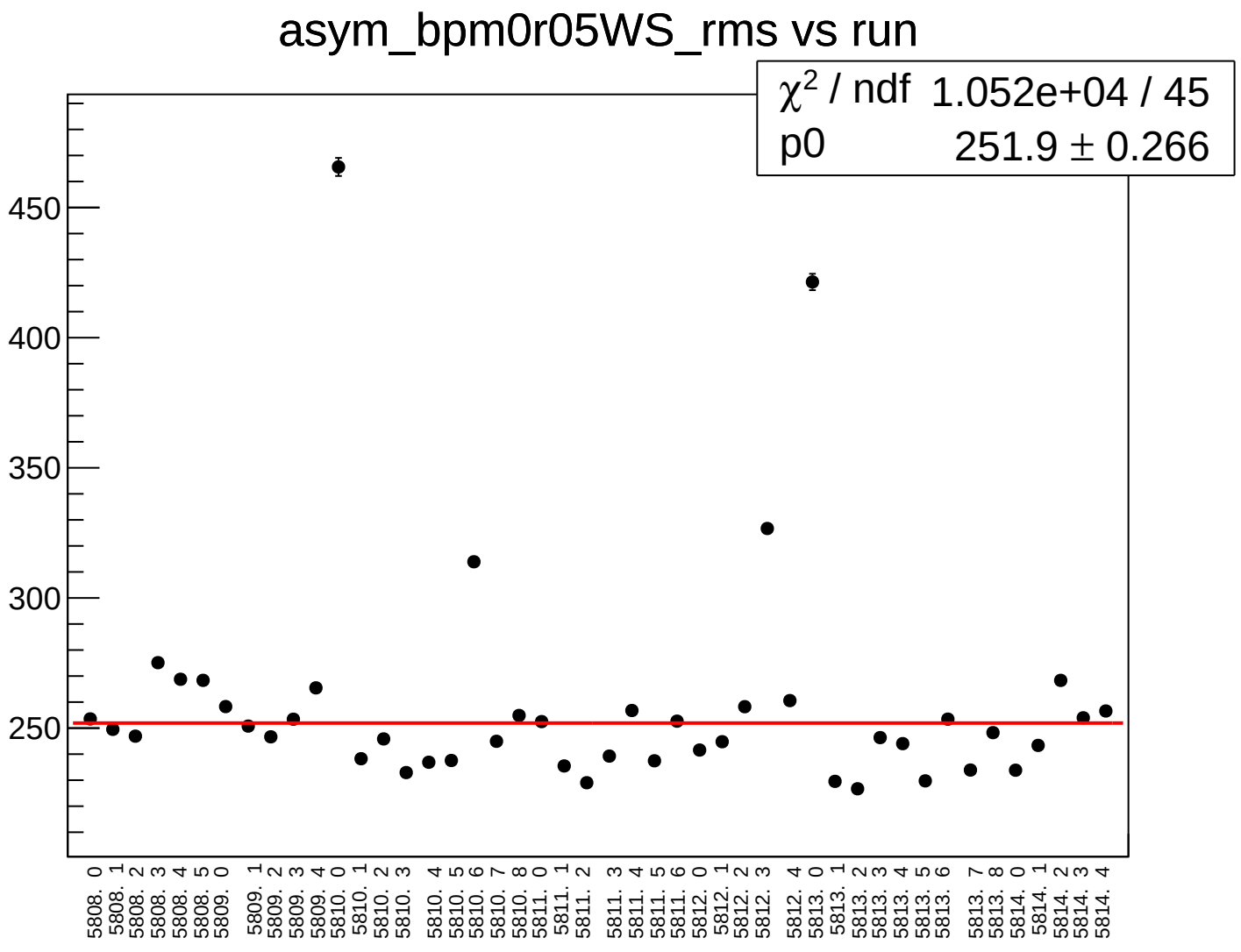

asym_bpm0l10WS_rms vs run
χ² / ndf 3.374e+04 / 45
p0 134.8 ± 0.1443
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

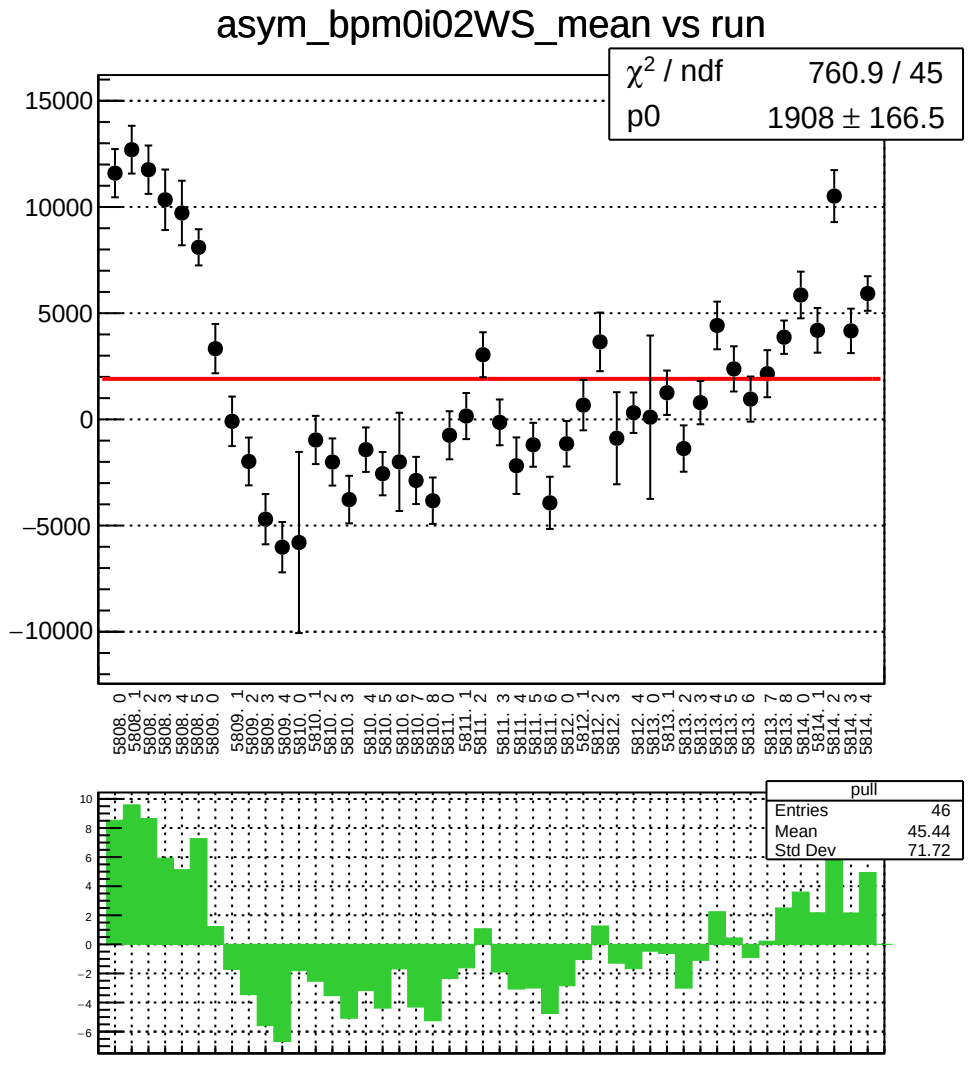

asym_bpm0r03WS_mean vs run
χ² / ndf 67.03 / 45
p0 392.5 ± 406
15000
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −614.2
Std Dev 627.4
4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.003762
Std Dev 1.207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

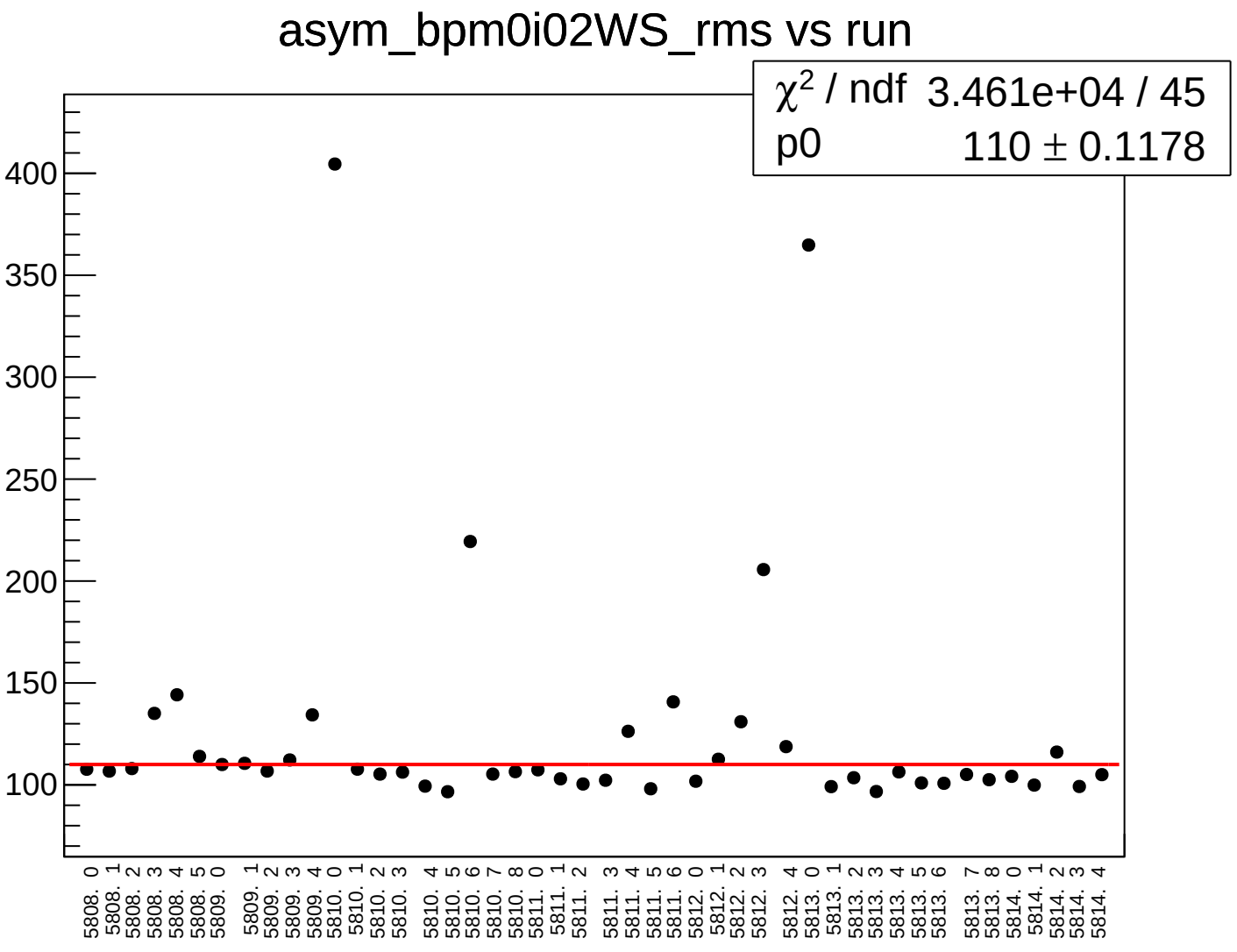

asym_bpm0r03WS_rms vs run
χ² / ndf 1.255e+04 / 45
p0 271.6 ± 0.2871
500
450
400
350
300
250
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

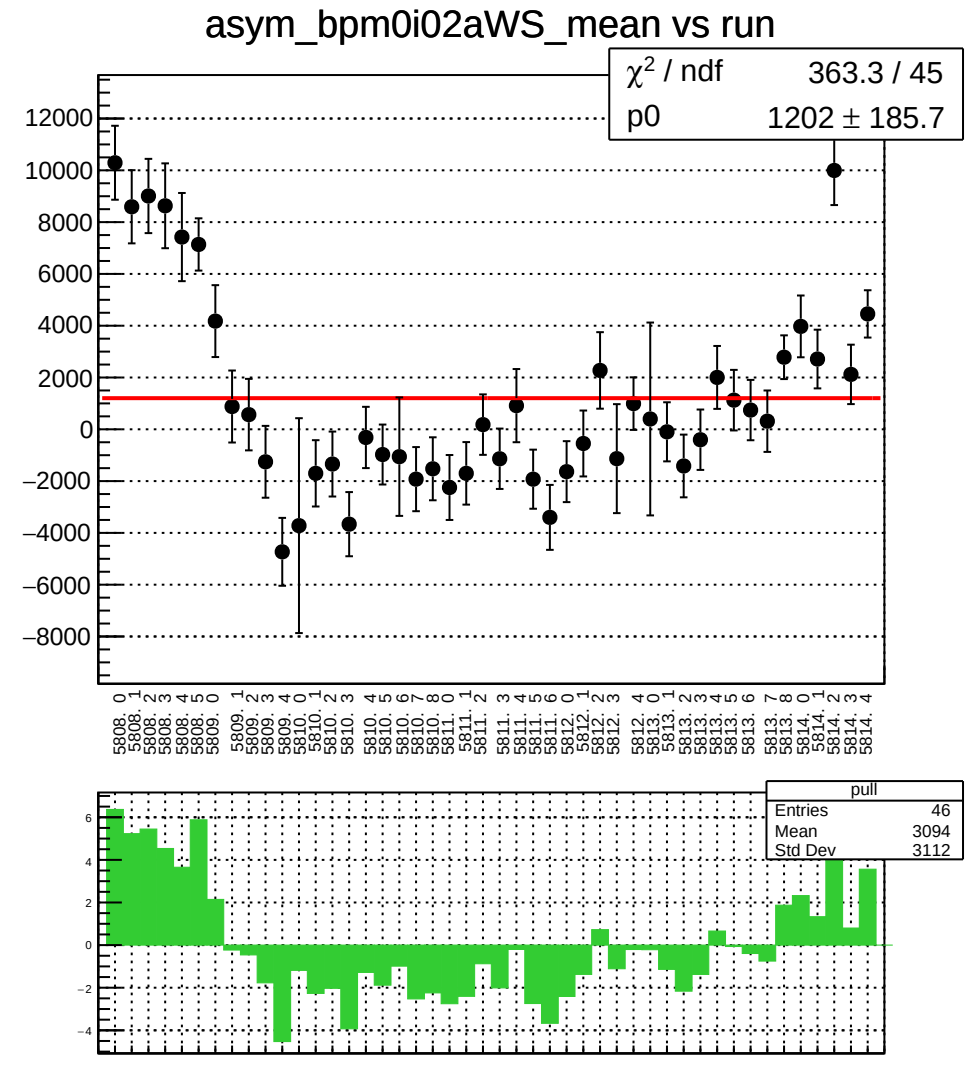

asym_bpm0r05WS_mean vs run
χ² / ndf 30.59 / 45
p0 −234.5 ± 376.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 286.5
Std Dev 269.2
1.5
1
0.5
0
−0.5
−1
−1.5

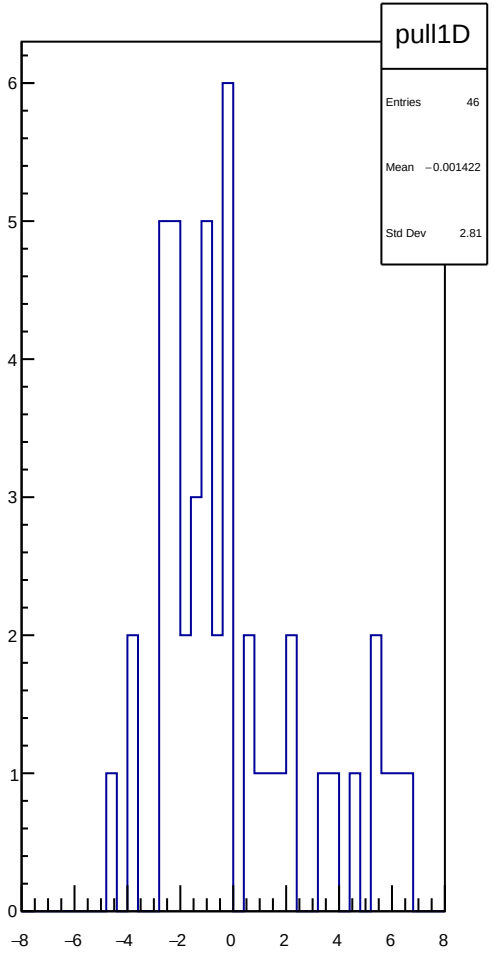

pull1D
Entries 46
Mean −0.007864
Std Dev 0.8155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

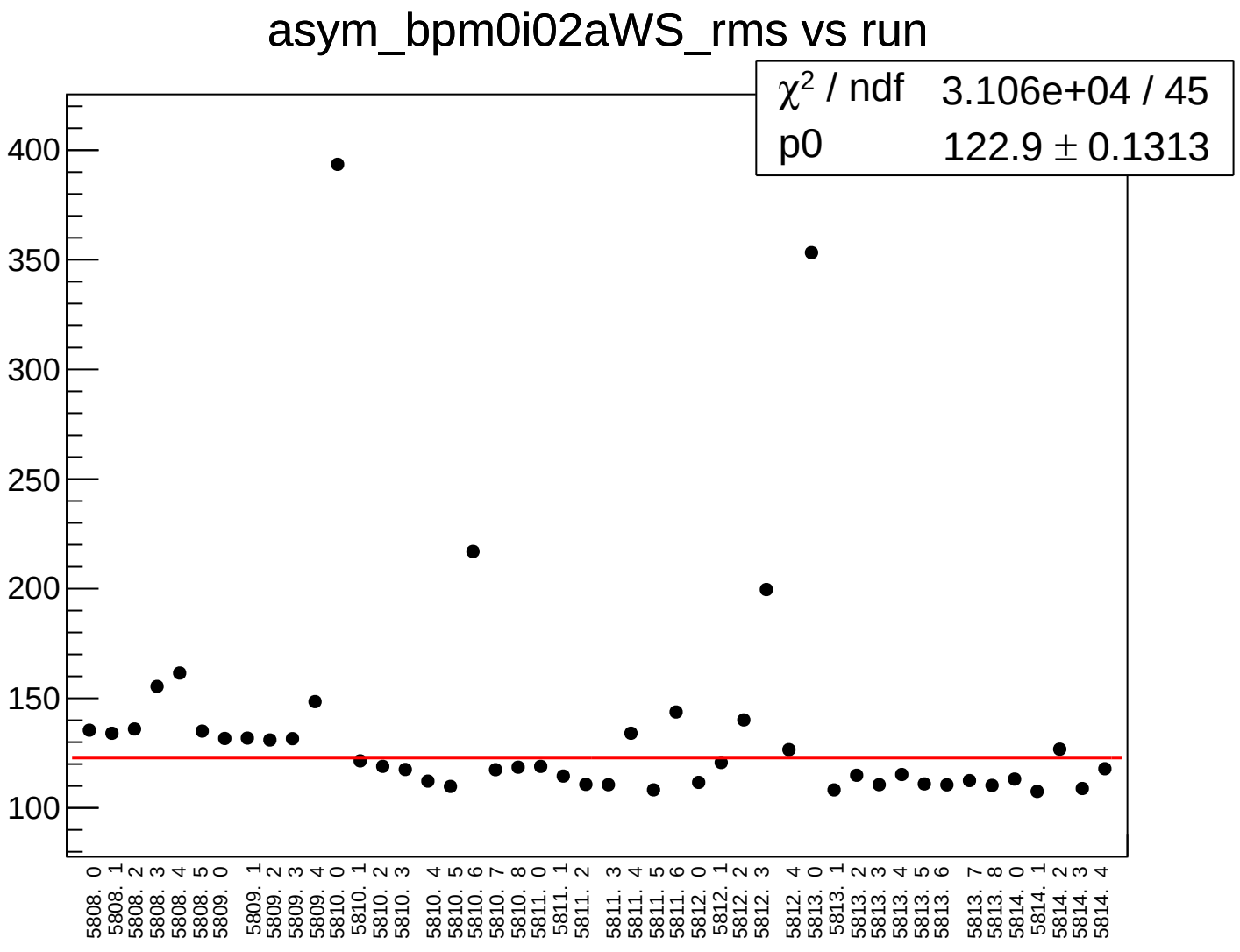

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.052e+04 / 45
p0 251.9 ± 0.266
450
400
350
300
250
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

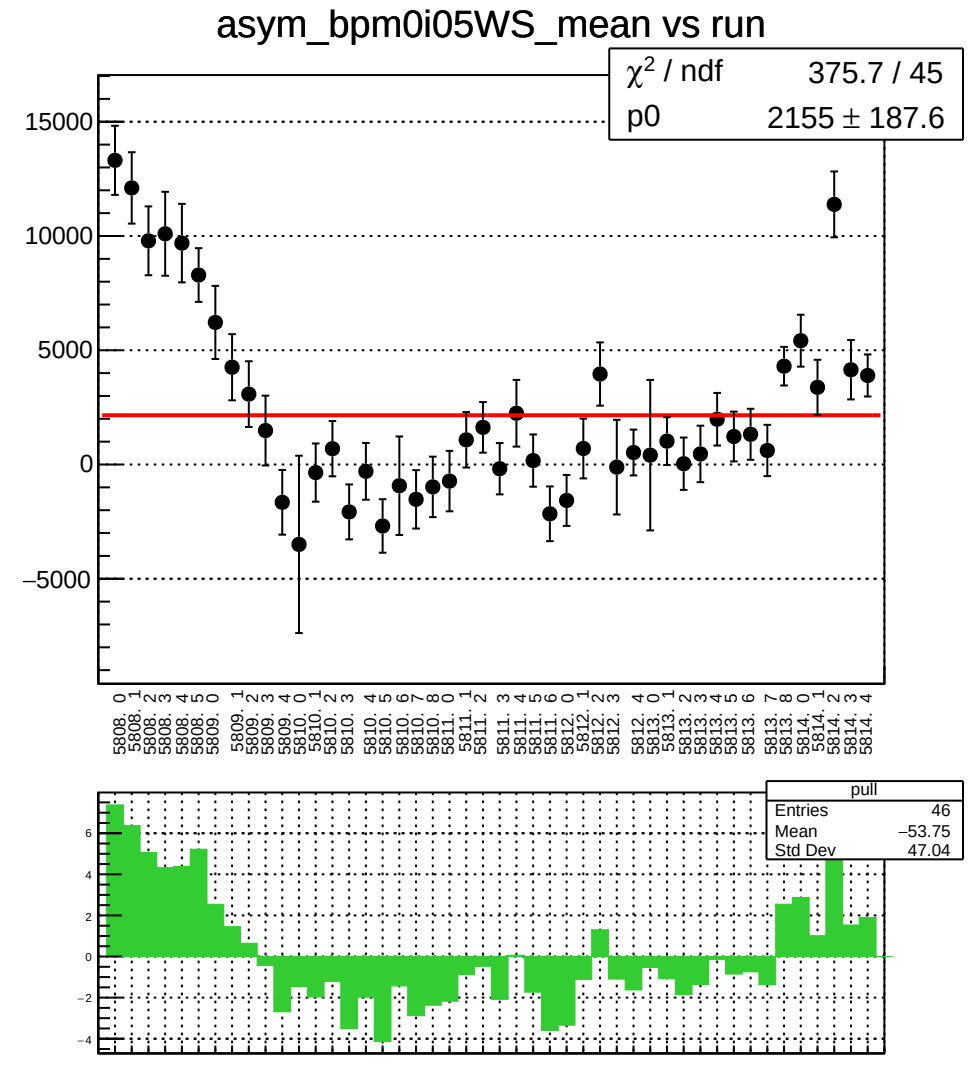

asym_bpm0i02WS_mean vs run
χ² / ndf 760.9 / 45
p0 1908 ± 166.5
15000
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 45.44
Std Dev 71.72
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean −0.7359
Std Dev 3.403
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

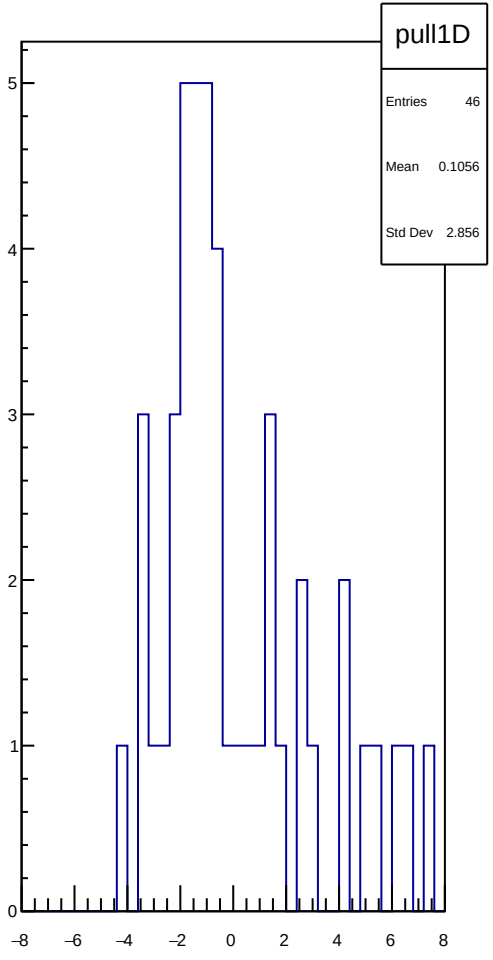

asym_bpm0i02WS_rms vs run
χ² / ndf 3.461e+04 / 45
p0 110 ± 0.1178
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

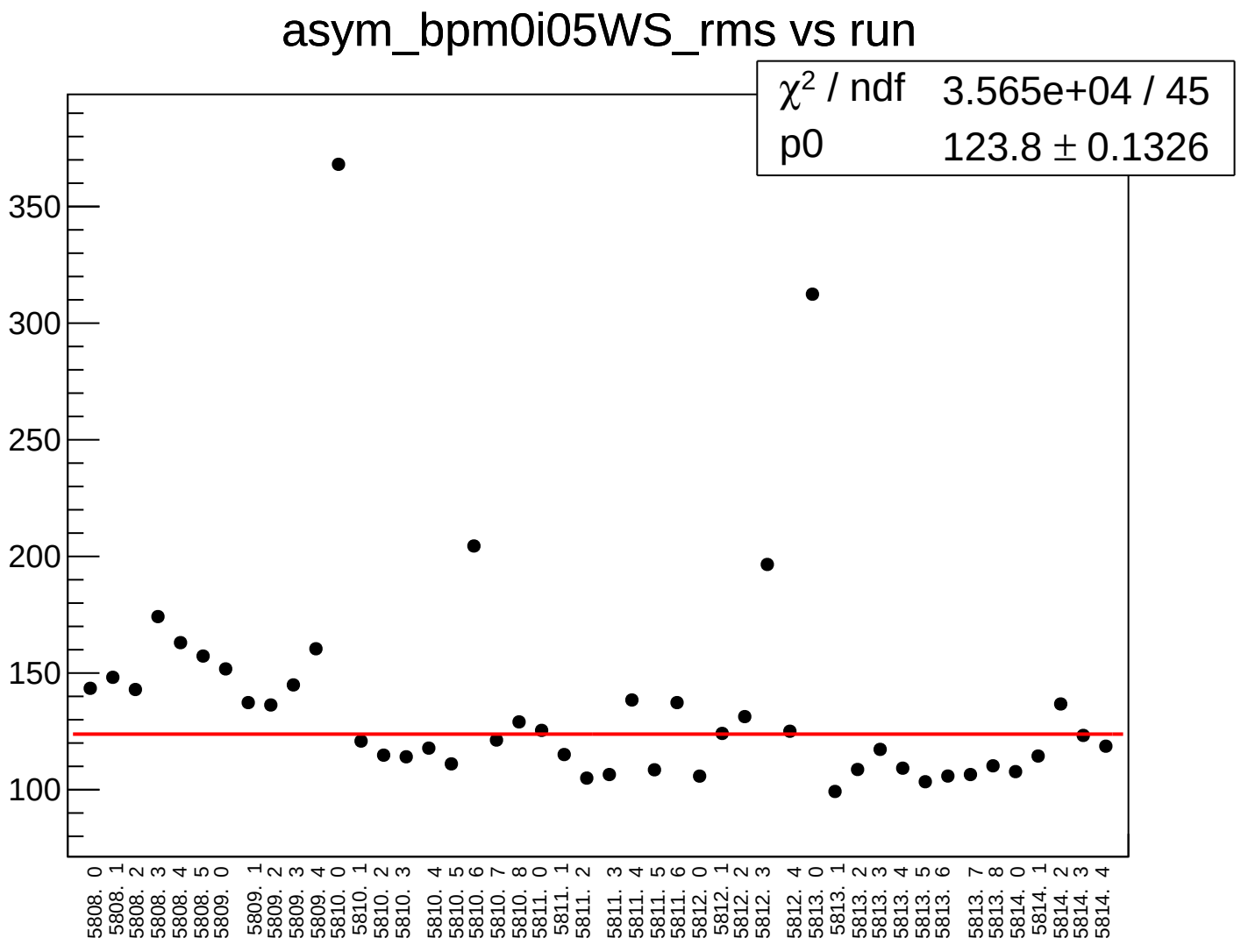

asym_bpm0i02aWS_mean vs run
χ² / ndf 363.3 / 45
p0 1202 ± 185.7
pull
Entries 46
Mean 3094
Std Dev 3112

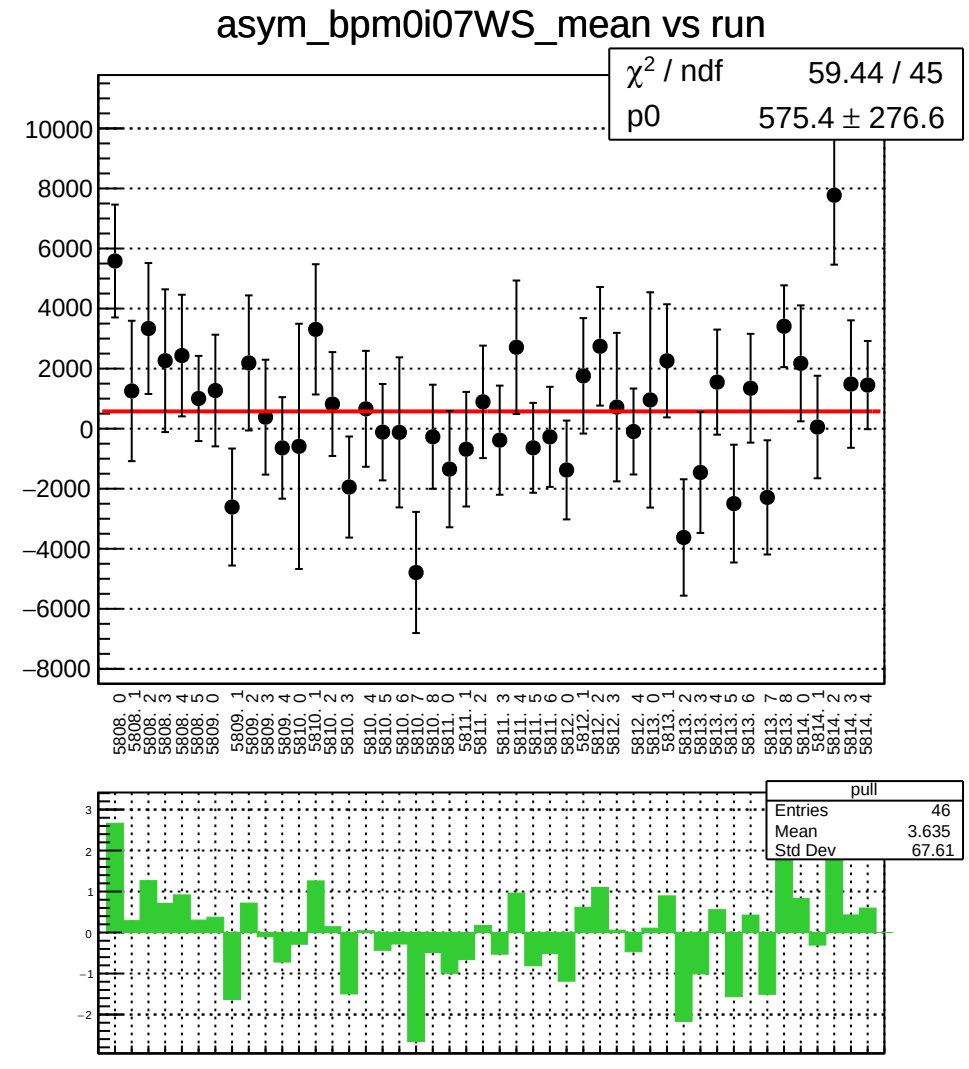

pull1D
Entries 46
Mean −0.001422
Std Dev 2.81

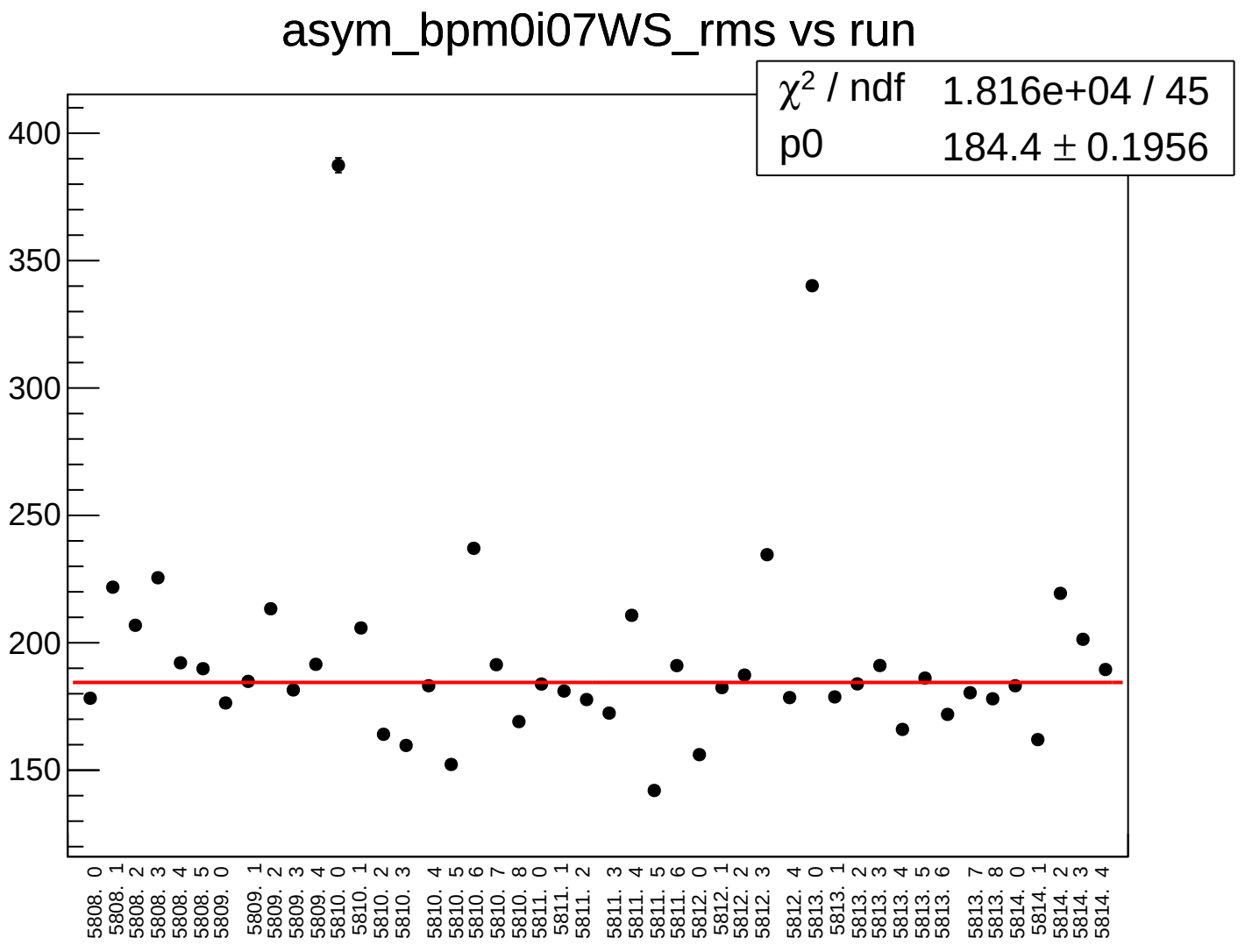

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.106e+04 / 45
p0 122.9 ± 0.1313
400
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

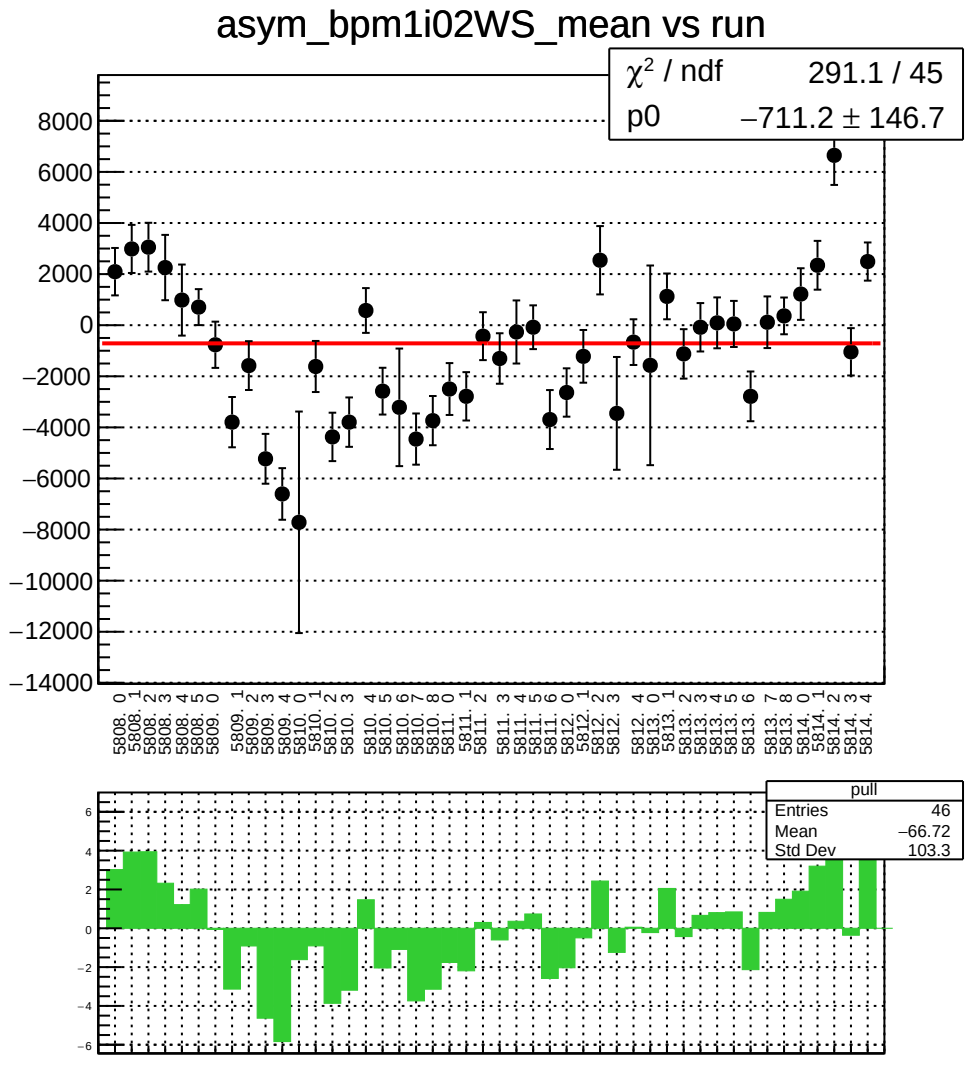

asym_bpm0i05WS_mean vs run
χ² / ndf 375.7 / 45
p0 2155 ± 187.6
15000
10000
5000
0
−5000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −53.75
Std Dev 47.04
6
4
2
0
−2
−4

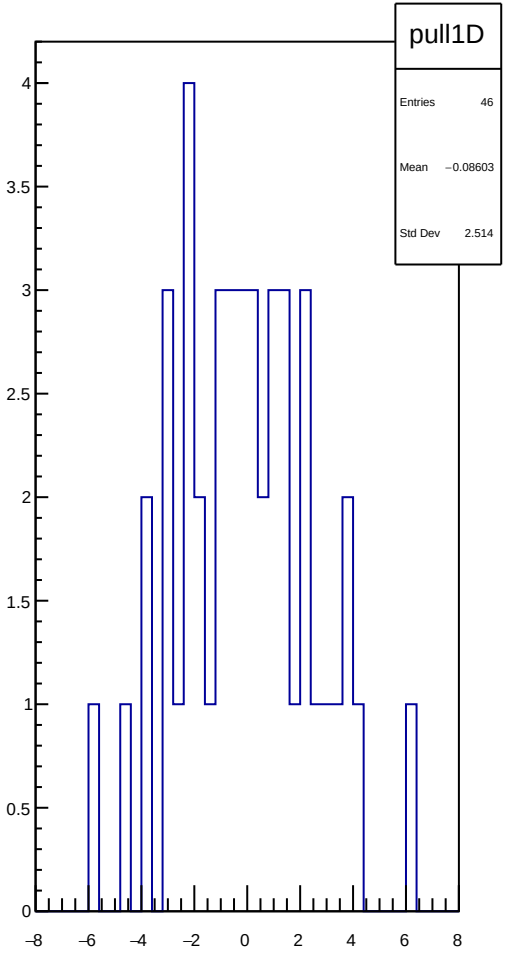

pull1D
Entries 46
Mean 0.1056
Std Dev 2.856
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

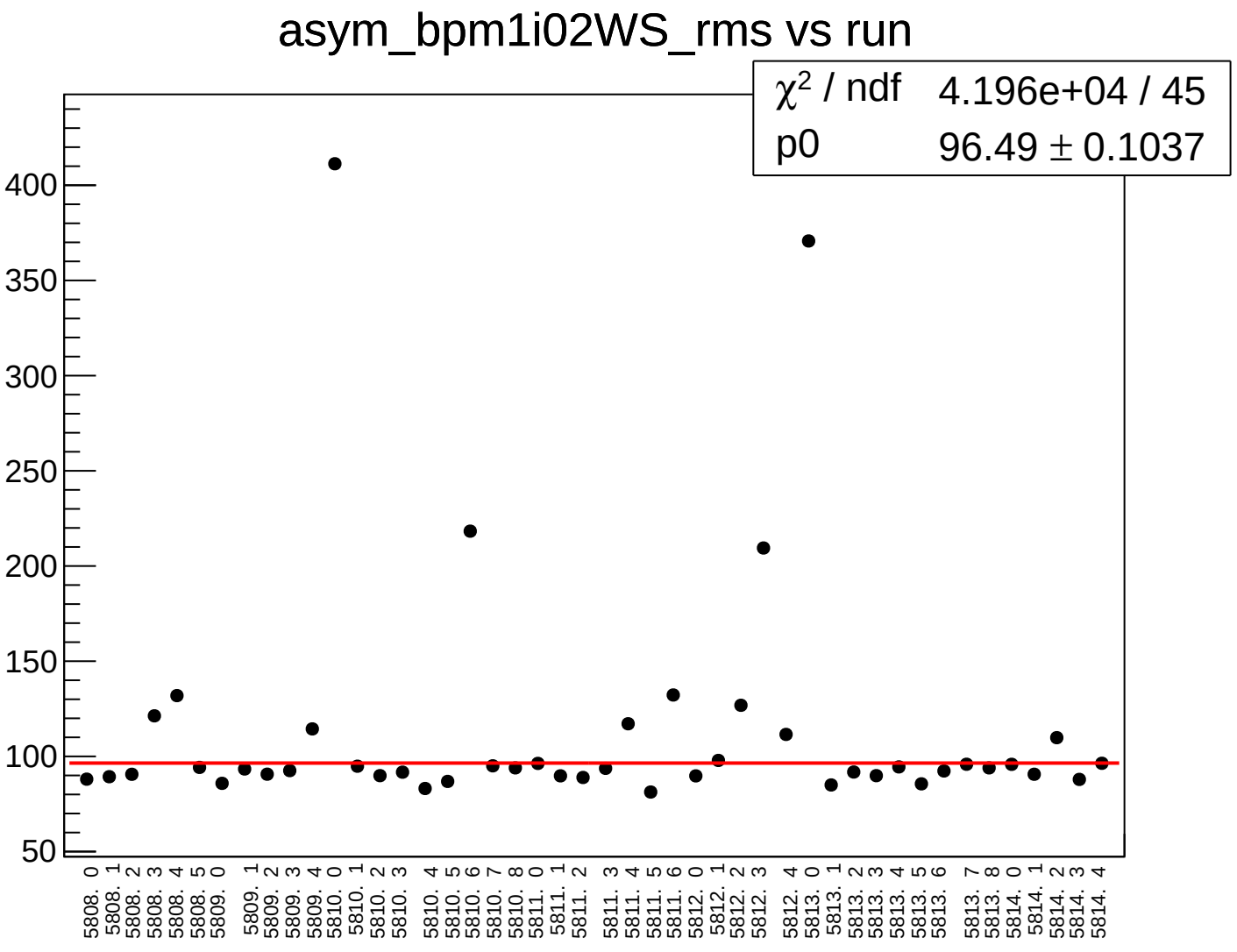

asym_bpm0i05WS_rms vs run
χ² / ndf 3.565e+04 / 45
p0 123.8 ± 0.1326
350
300
250
200
150
100
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

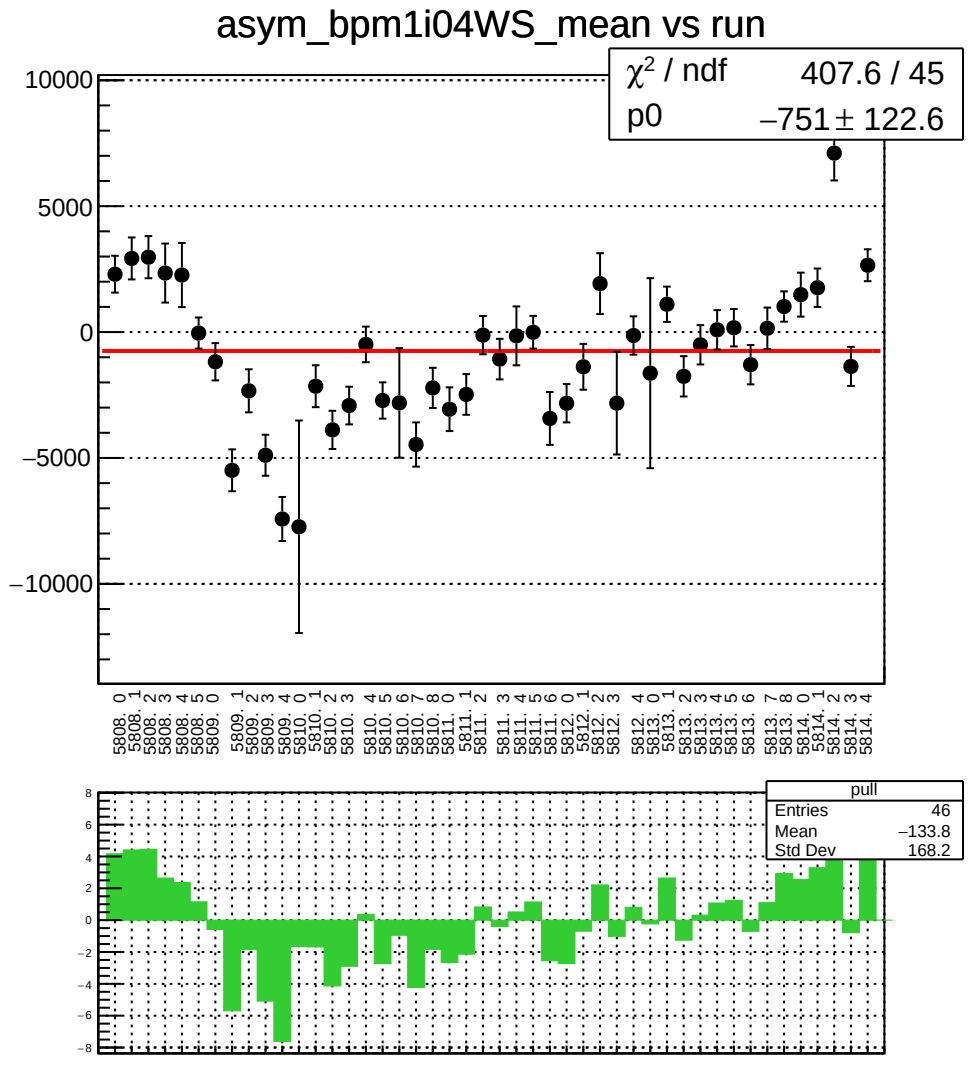

asym_bpm0i07WS_mean vs run
χ^2 / ndf 59.44 / 45
p0 575.4 ± 276.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 3.635
Std Dev 67.61
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01793
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

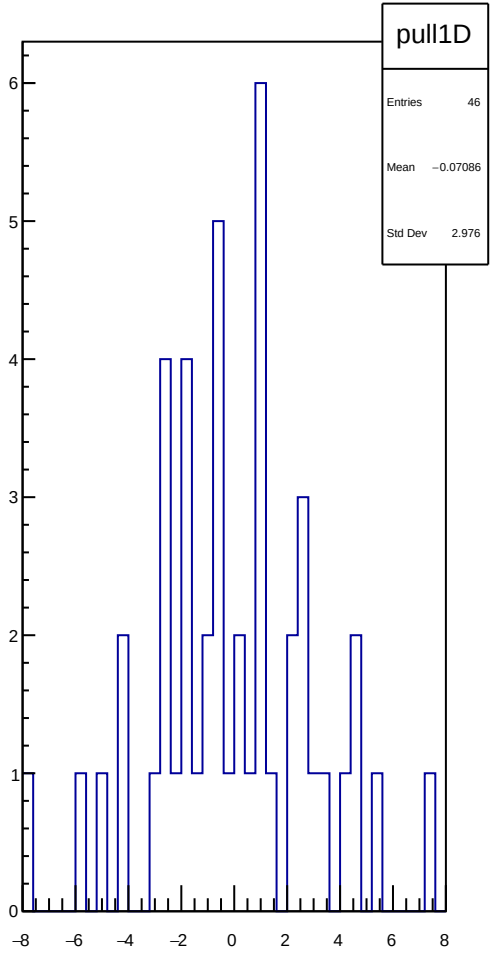

asym_bpm0i07WS_rms vs run
χ² / ndf 1.816e+04 / 45
p0 184.4 ± 0.1956
400
350
300
250
200
150
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

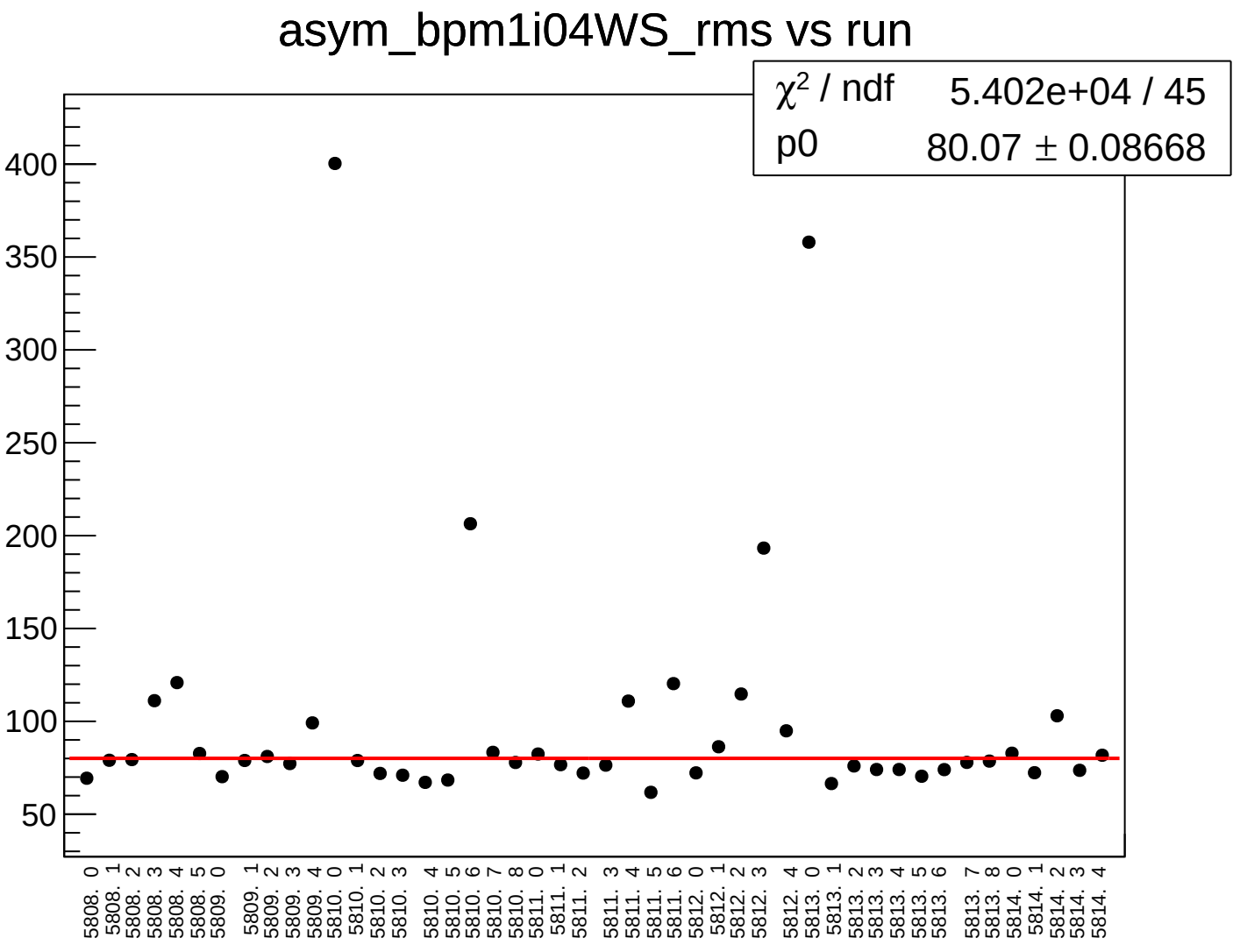

asym_bpm1i02WS_mean vs run
χ² / ndf 291.1 / 45
p0 −711.2 ± 146.7
pull
Entries 46
Mean −66.72
Std Dev 103.3

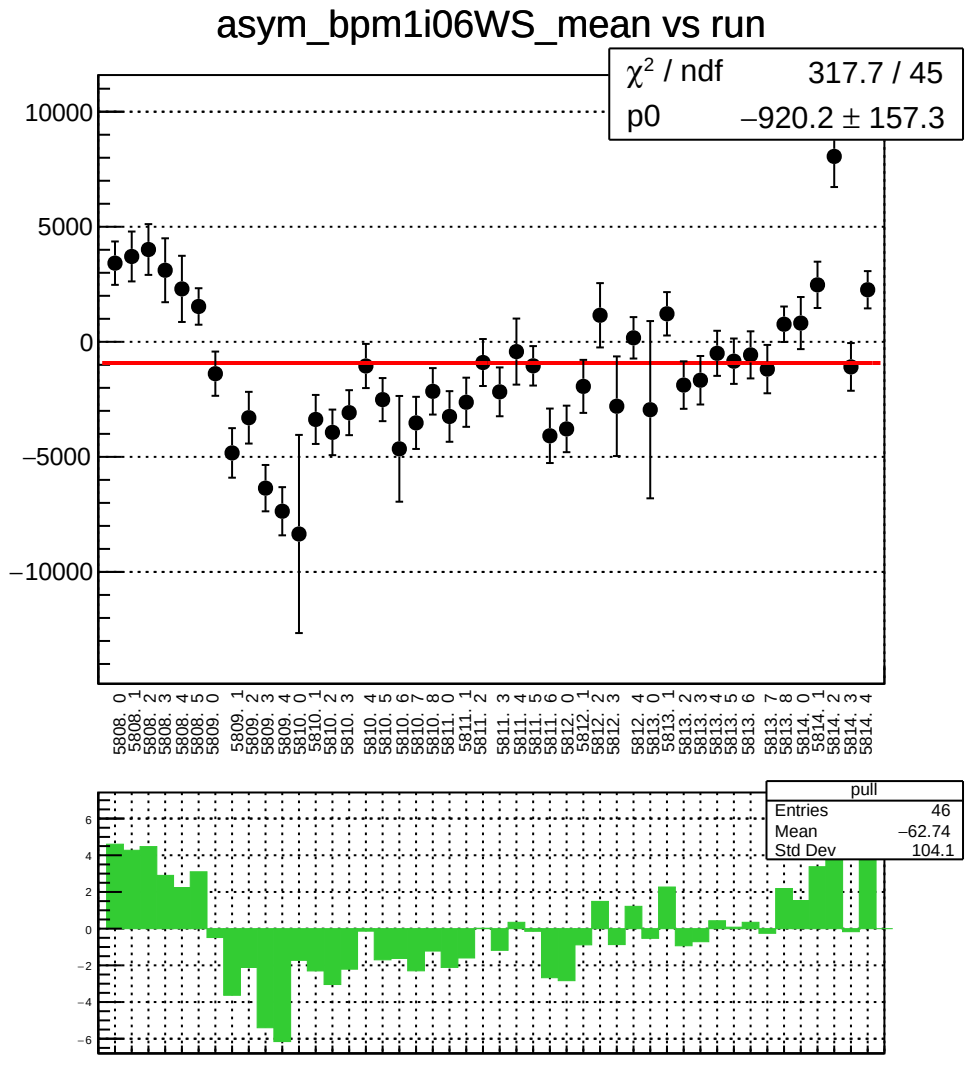

pull1D
Entries 46
Mean −0.08603
Std Dev 2.514

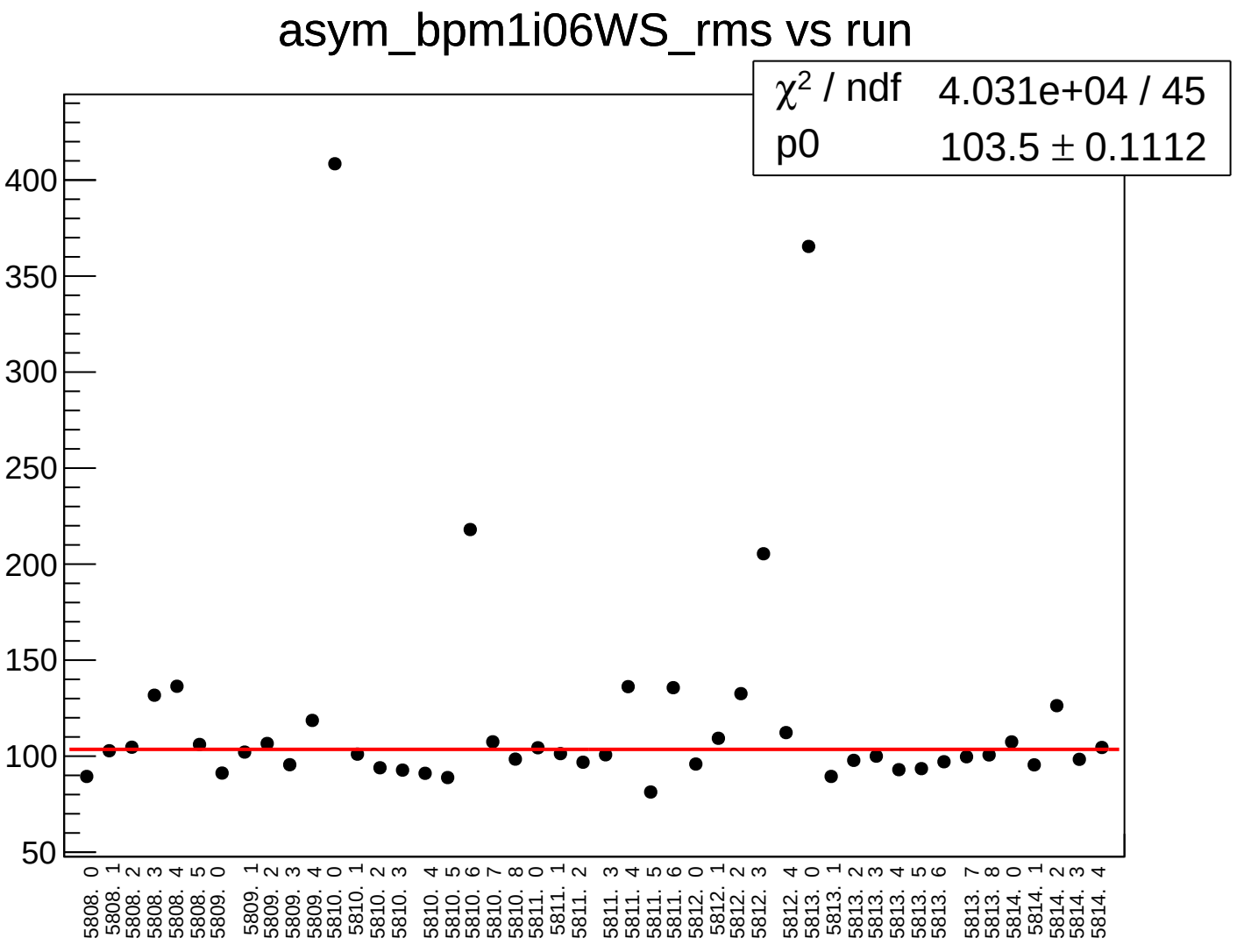

asym_bpm1i02WS_rms vs run
χ² / ndf 4.196e+04 / 45
p0 96.49 ± 0.1037
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

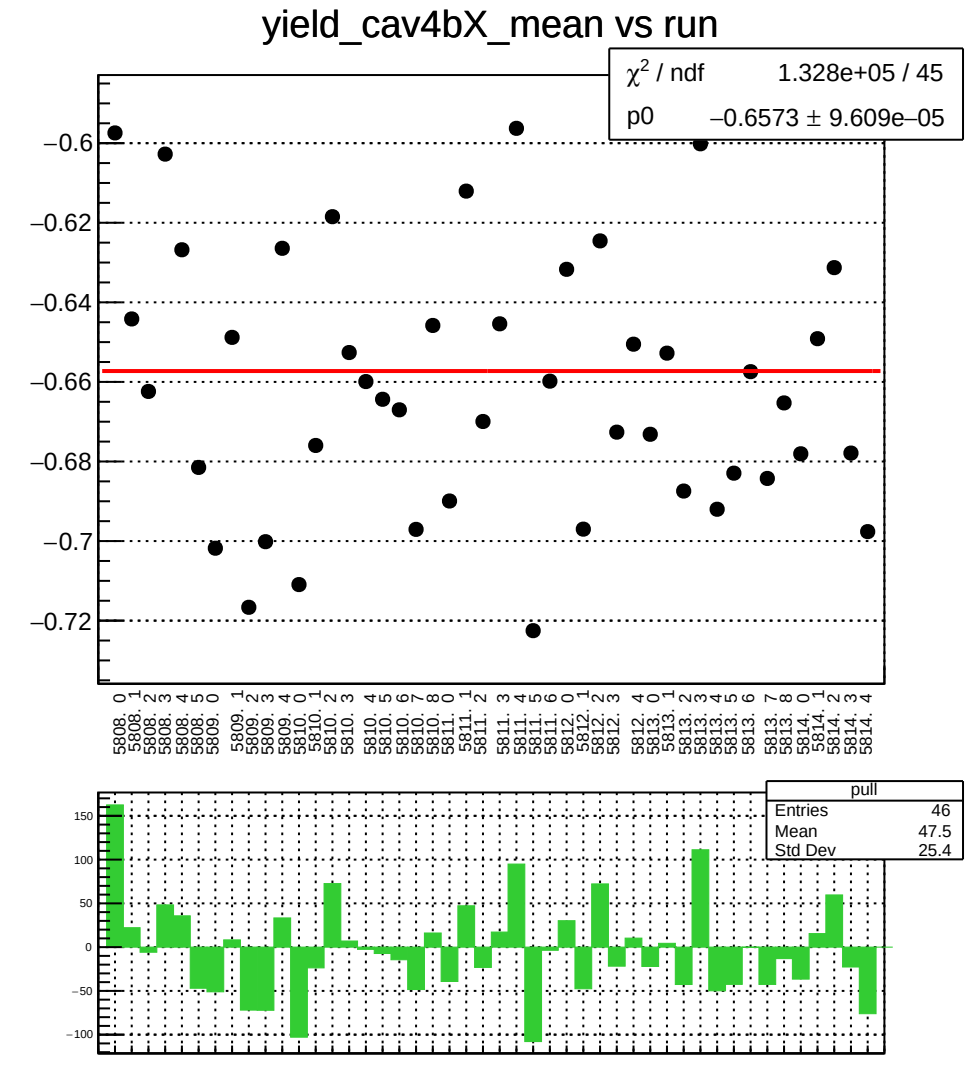

asym_bpm1i04WS_mean vs run
χ² / ndf 407.6 / 45
p0 −751 ± 122.6
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −133.8
Std Dev 168.2
8
6
4
2
0
−2
−4
−6
−8

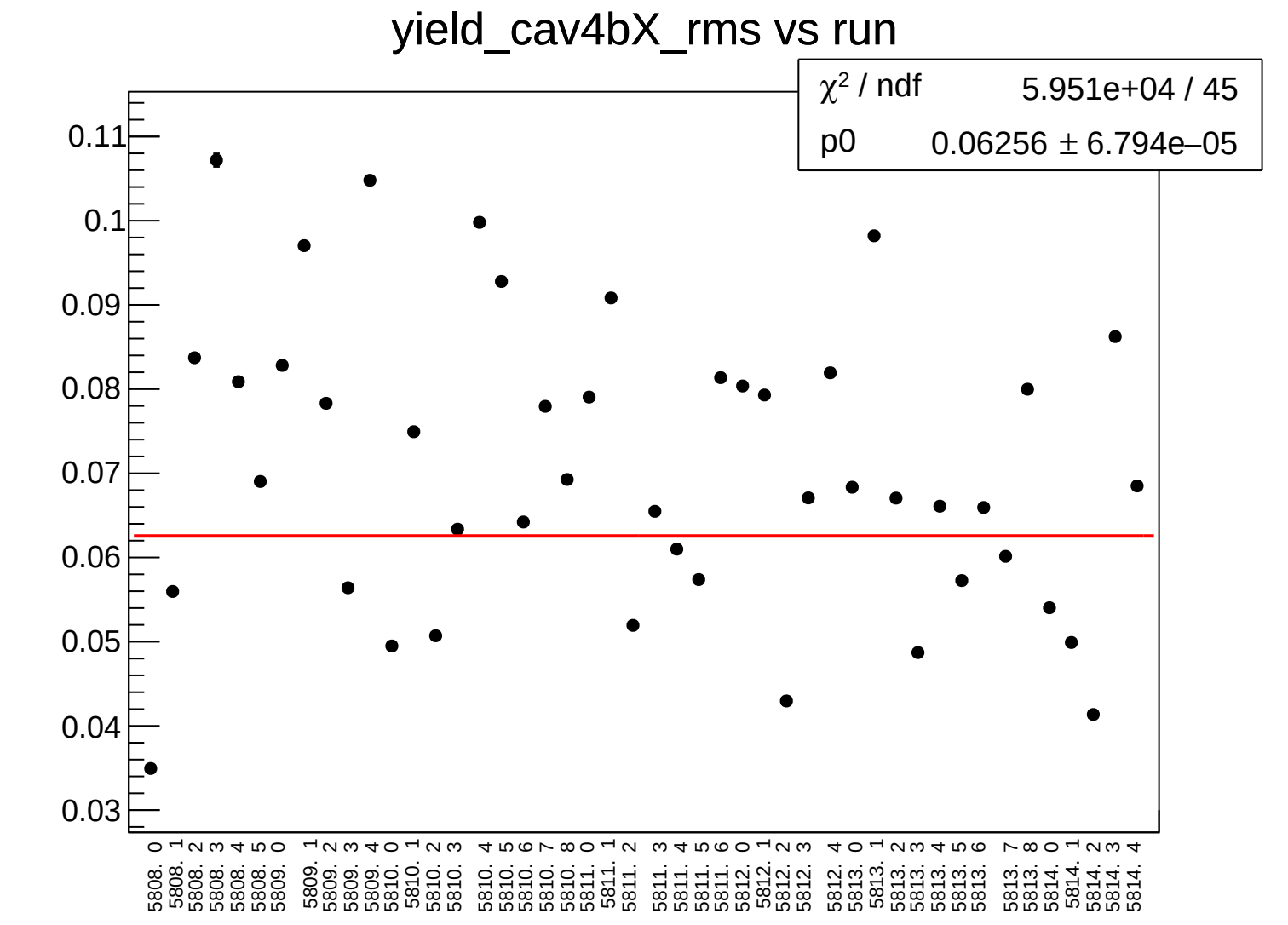

pull1D
Entries 46
Mean −0.07086
Std Dev 2.976
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

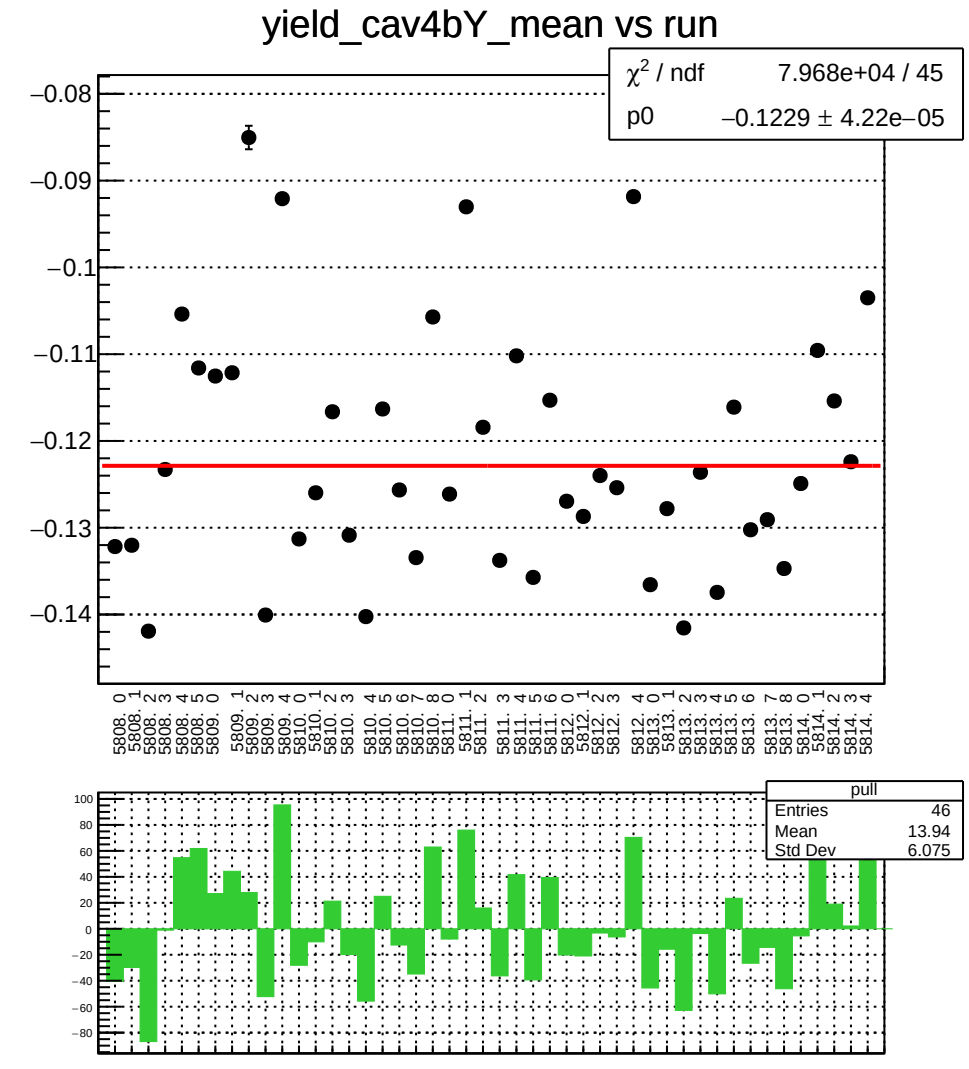

asym_bpm1i04WS_rms vs run
χ² / ndf 5.402e+04 / 45
p0 80.07 ± 0.08668
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

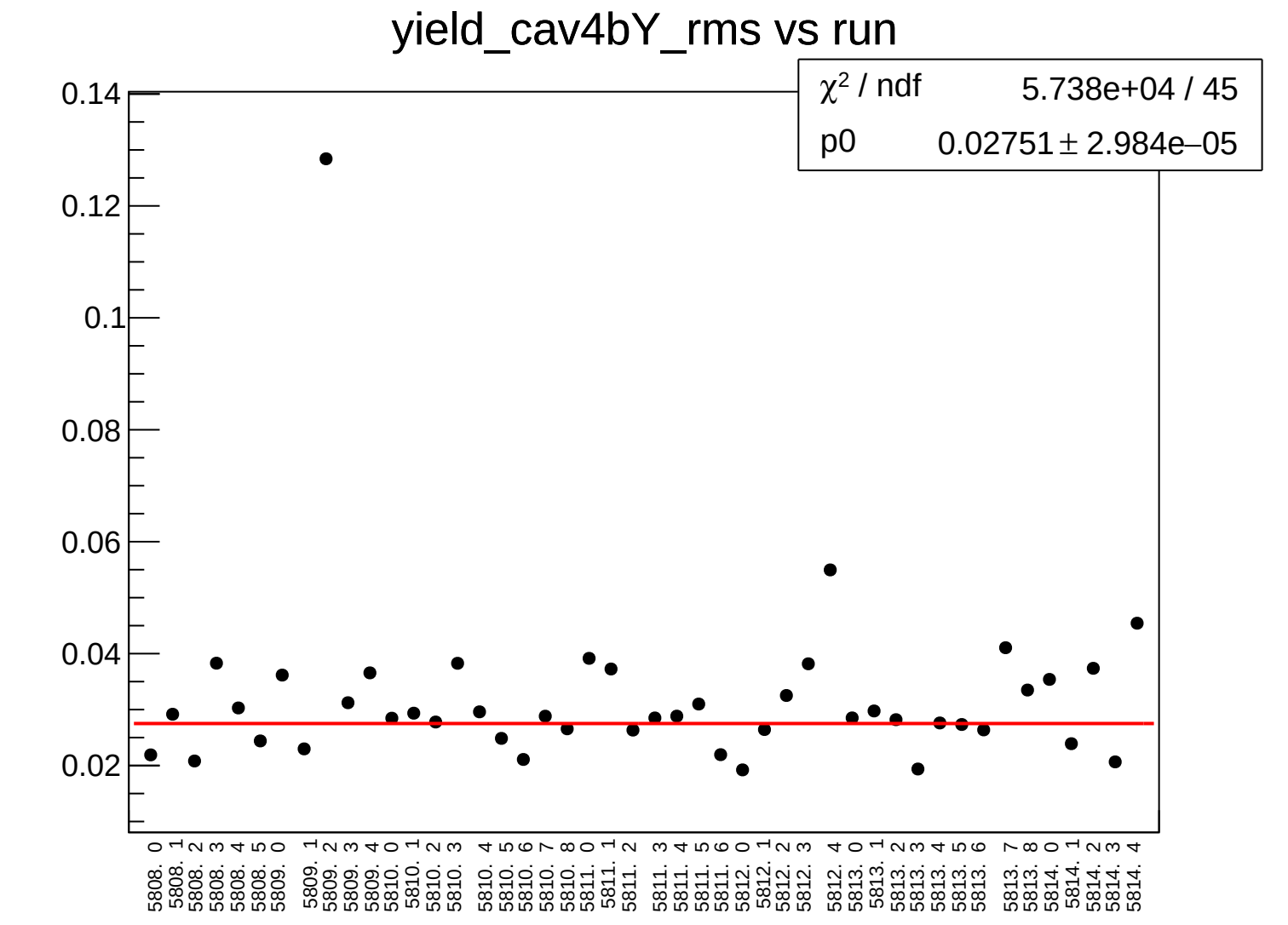

asym_bpm1i06WS_mean vs run
χ² / ndf 317.7 / 45
p0 −920.2 ± 157.3
10000
5000
0
−5000
−10000
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −62.74
Std Dev 104.1
6
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean −0.07338
Std Dev 2.627
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

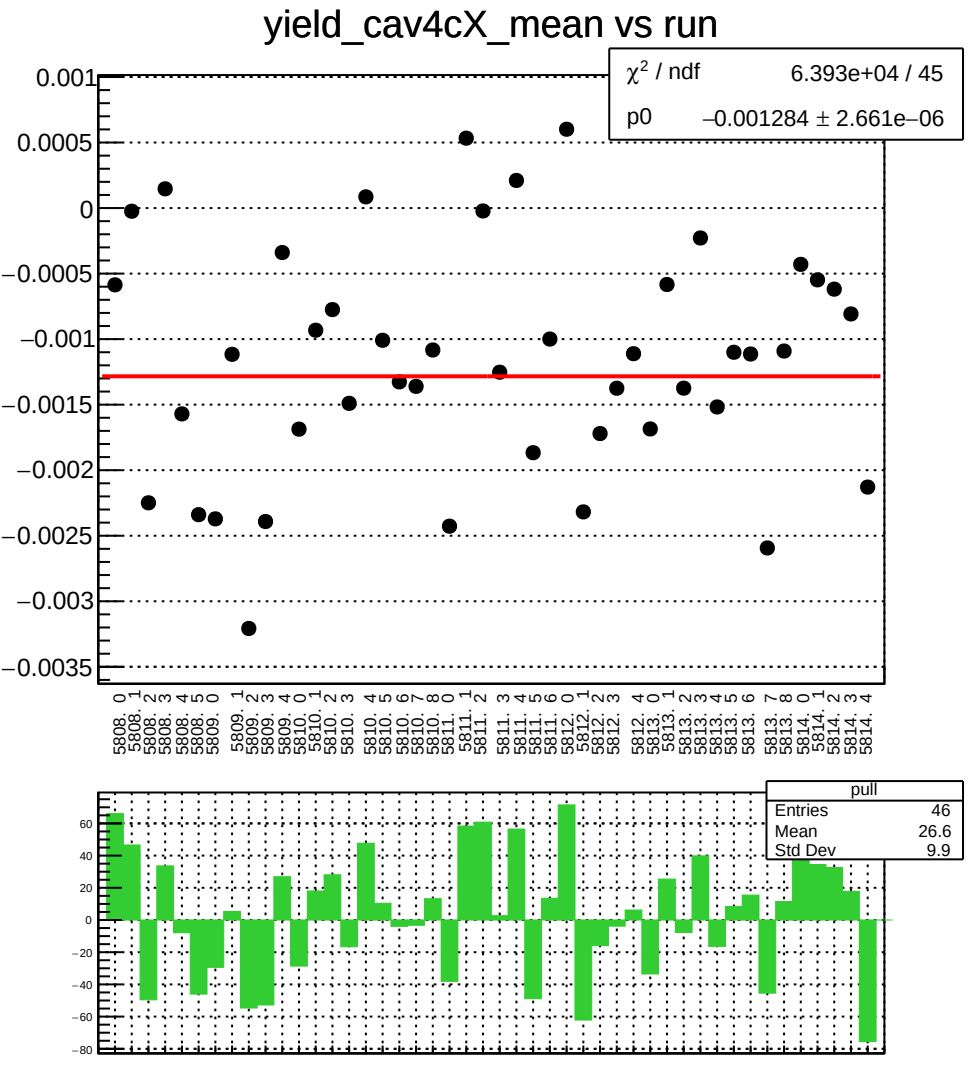

asym_bpm1i06WS_rms vs run
χ² / ndf 4.031e+04 / 45
p0 103.5 ± 0.1112
400
350
300
250
200
150
100
50
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

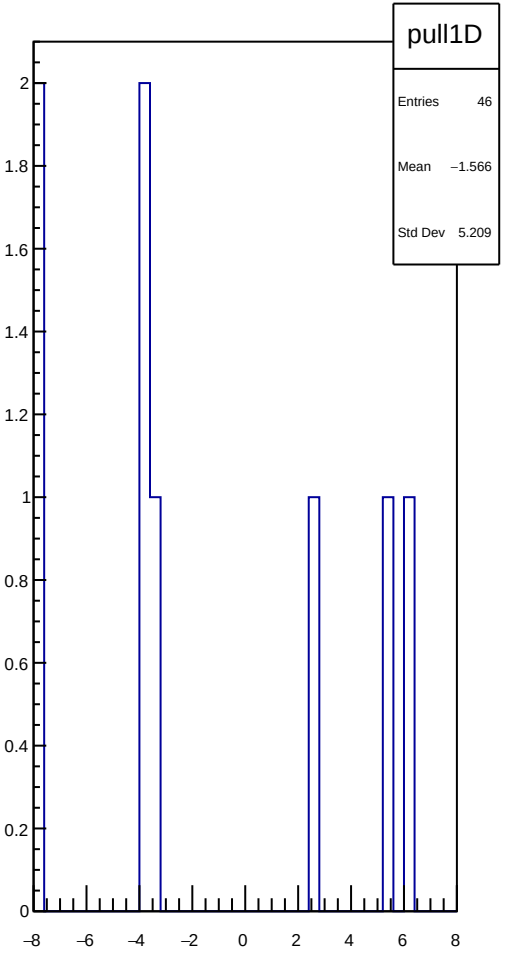

yield_cav4bX_mean vs run
χ² / ndf 1.328e+05 / 45
p0 −0.6573 ± 9.609e−05
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 47.5
Std Dev 25.4
150
100
50
0
−50
−100
pull1D
Entries 46
Mean −1.152
Std Dev 4.835
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

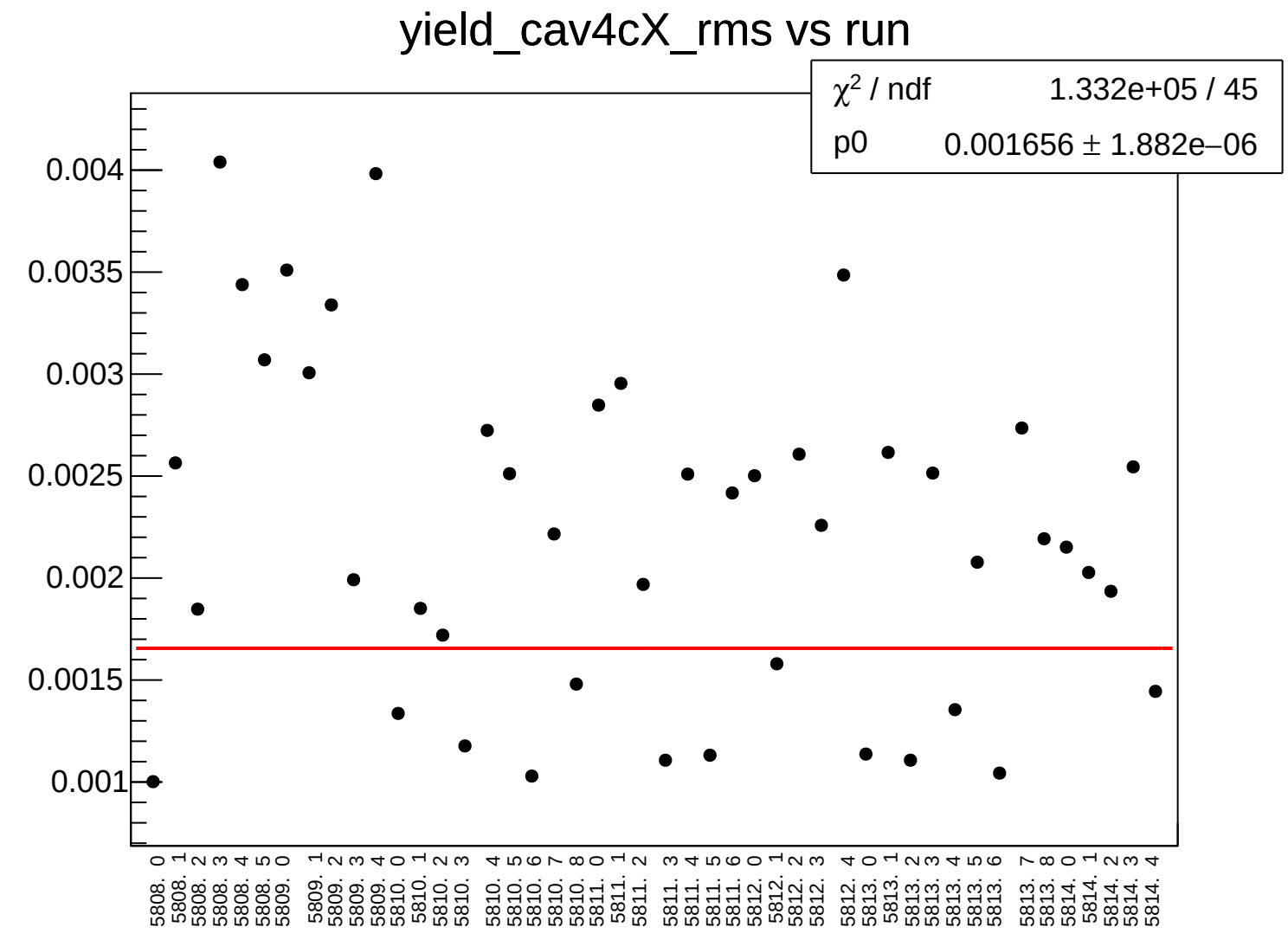

yield_cav4bX_rms vs run
χ² / ndf 5.951e+04 / 45
p0 0.06256 ± 6.794e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

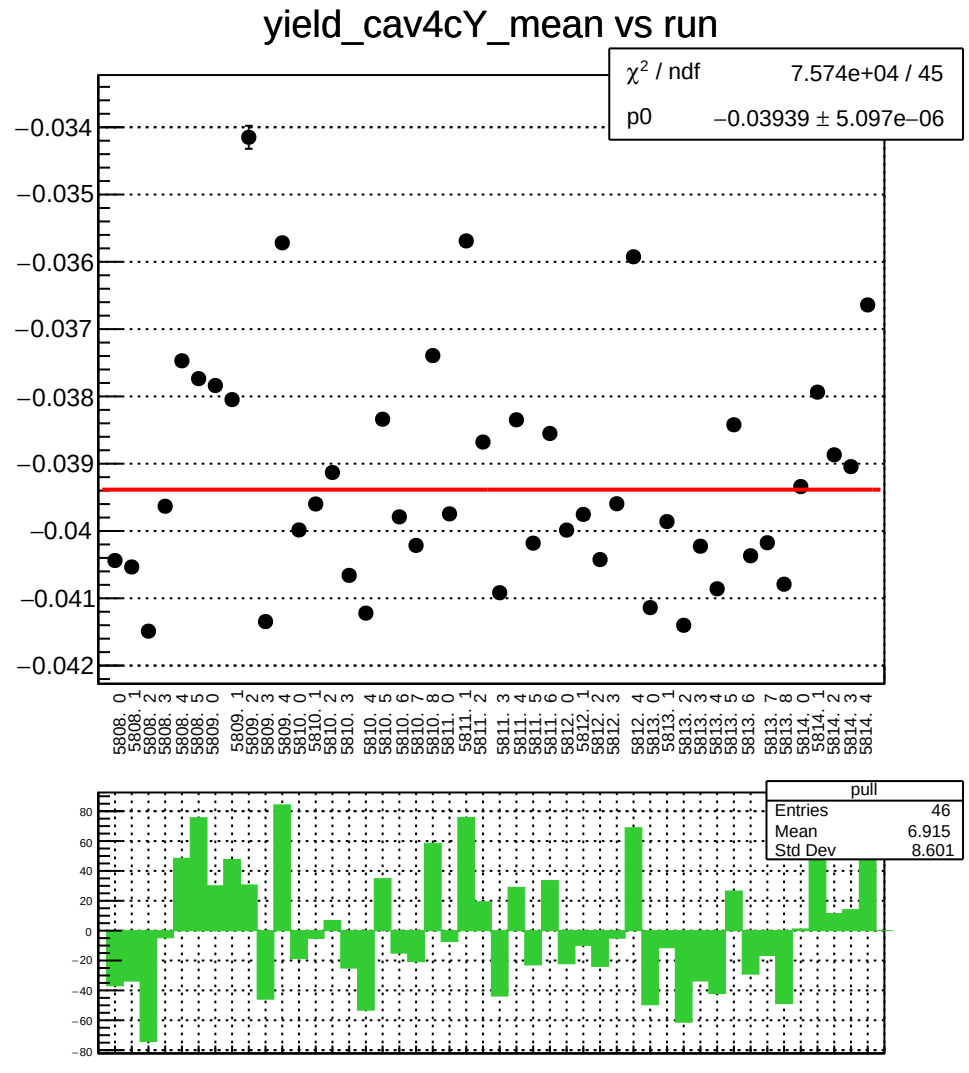

yield_cav4bY_mean vs run
χ² / ndf 7.968e+04 / 45
p0 −0.1229 ± 4.22e−05
−0.08
−0.09
−0.1
−0.11
−0.12
−0.13
−0.14
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 13.94
Std Dev 6.075
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean −3.632
Std Dev 3.138
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

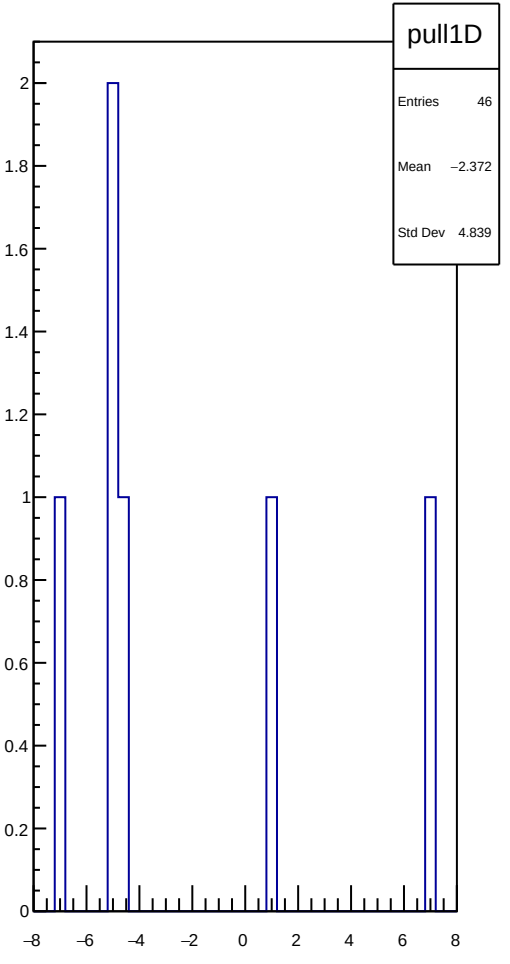

yield_cav4bY_rms vs run
χ² / ndf 5.738e+04 / 45
p0 0.02751 ± 2.984e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

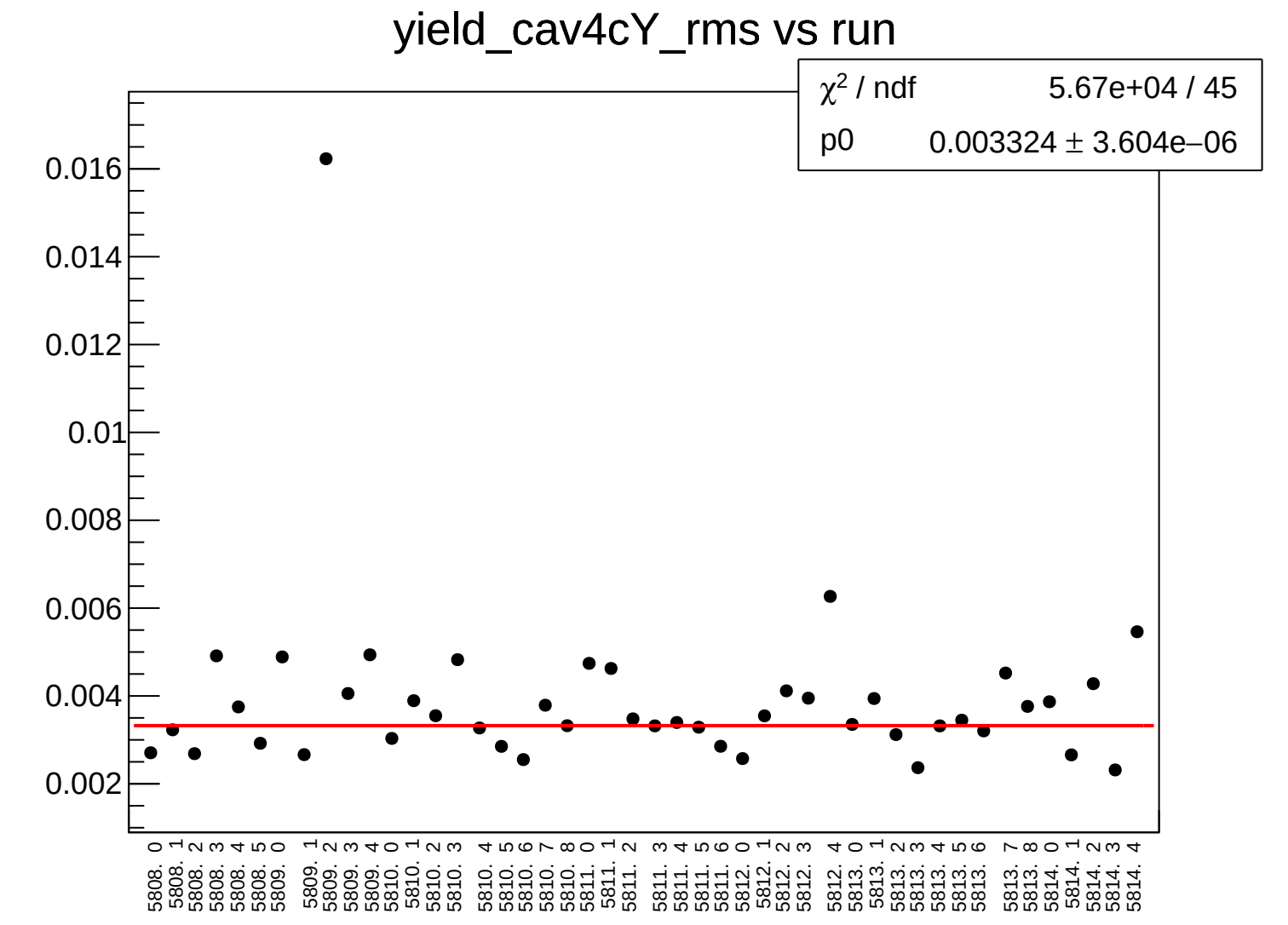

yield_cav4cX_mean vs run
χ² / ndf 6.393e+04 / 45
p0 −0.001284 ± 2.661e−06
pull
Entries 46
Mean 26.6
Std Dev 9.9


pull1D
Entries 46
Mean −1.566
Std Dev 5.209


yield_cav4cX_rms vs run
χ² / ndf 1.332e+05 / 45
p0 0.001656 ± 1.882e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_cav4cY_mean vs run
χ² / ndf 7.574e+04 / 45
p0 −0.03939 ± 5.097e−06
−0.034
−0.035
−0.036
−0.037
−0.038
−0.039
−0.04
−0.041
−0.042
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 6.915
Std Dev 8.601
80
60
40
20
0
−20
−40
−60
−80


pull1D
Entries 46
Mean −2.372
Std Dev 4.839
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cY_rms vs run
χ² / ndf 5.67e+04 / 45
p0 0.003324 ± 3.604e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
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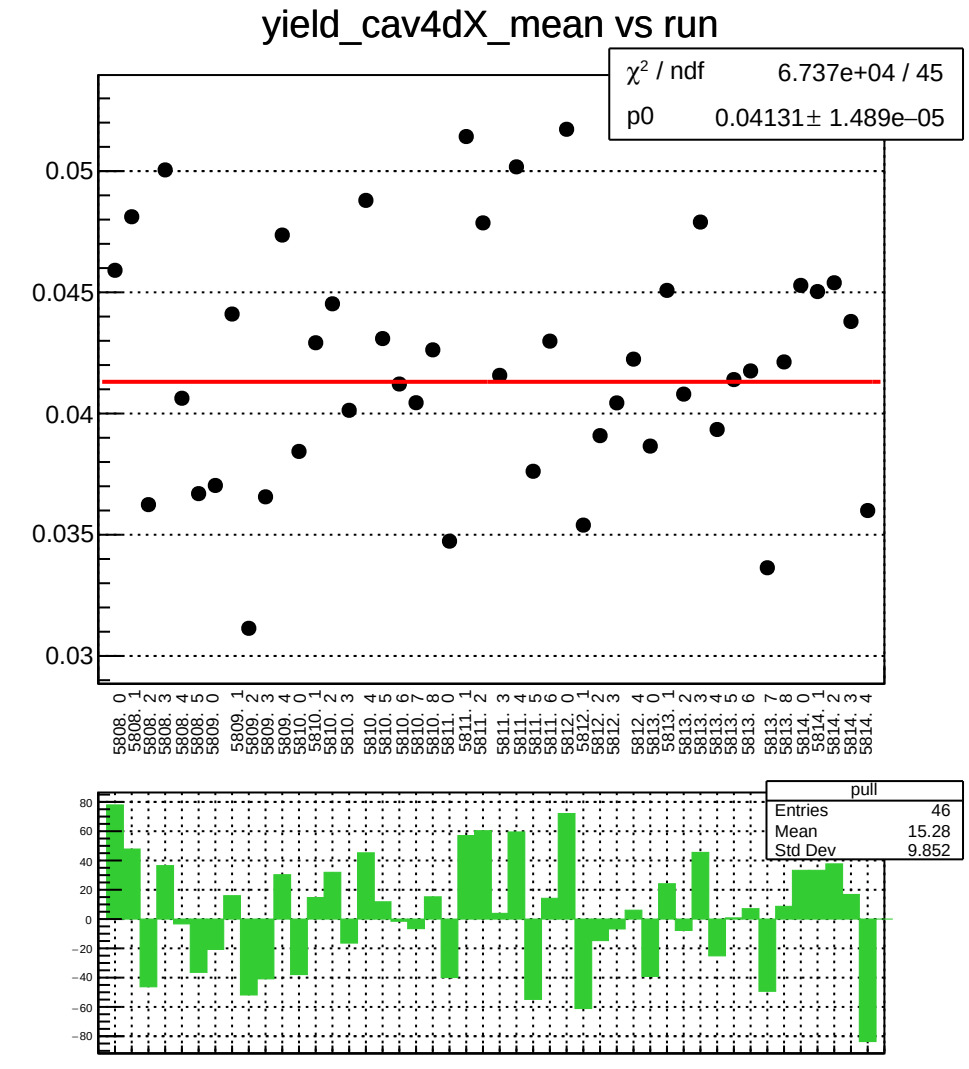
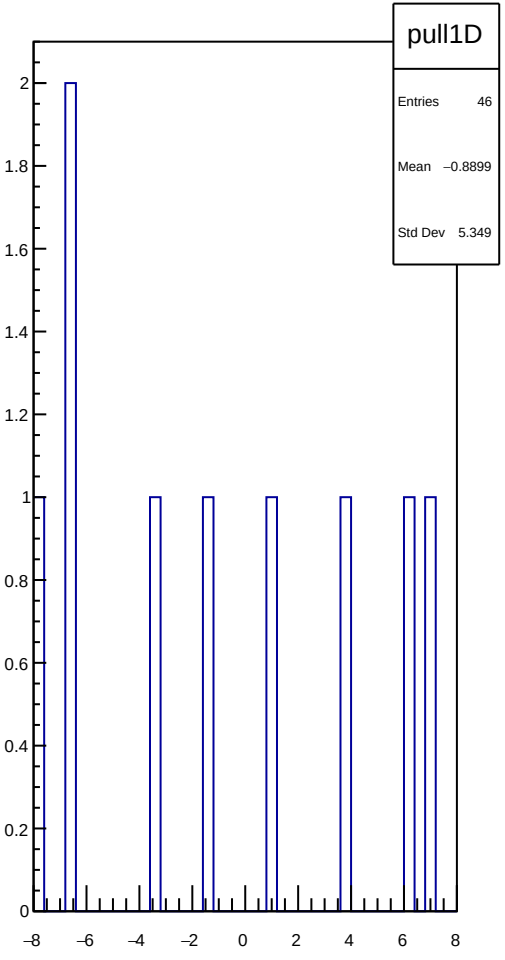
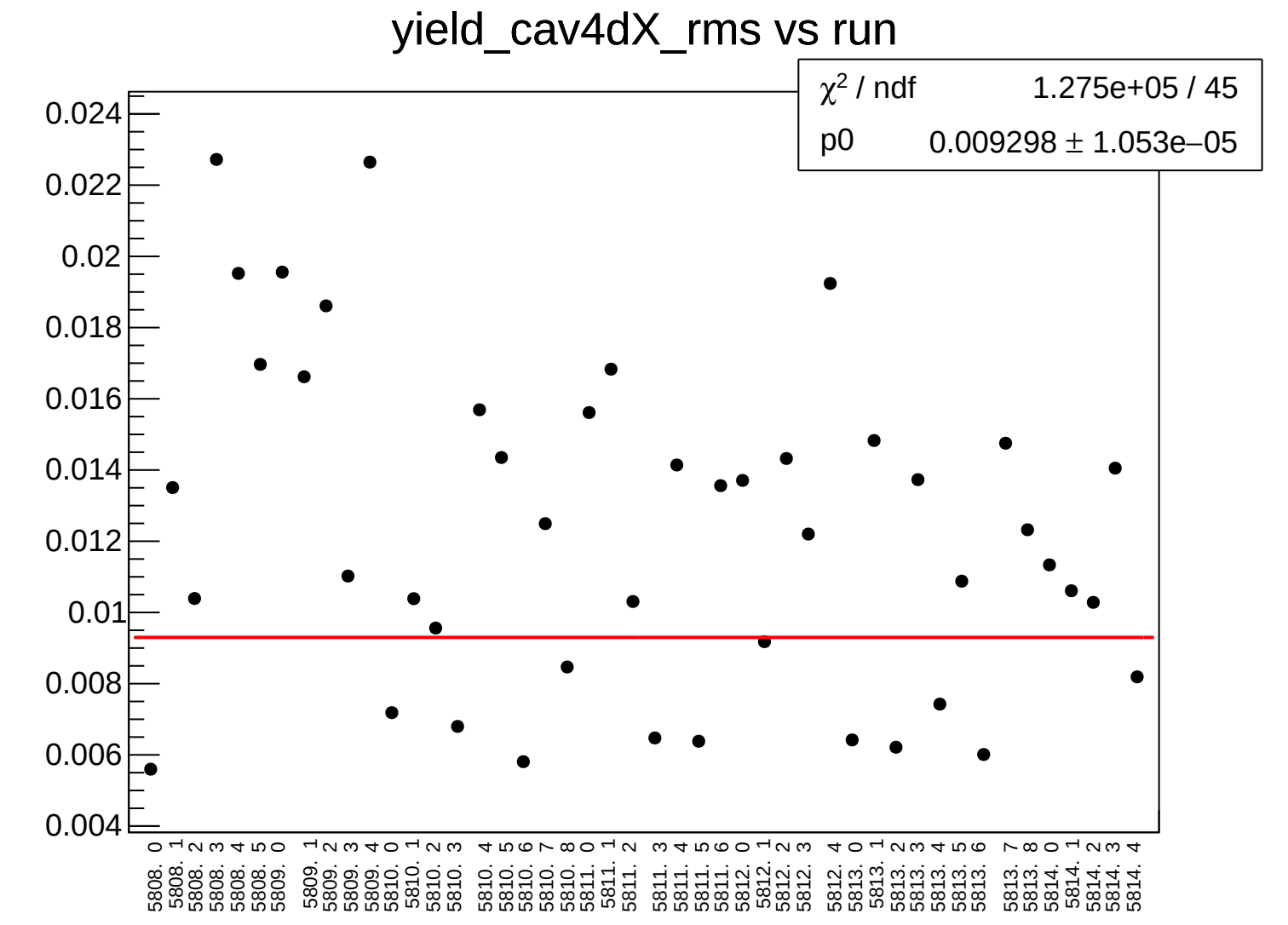
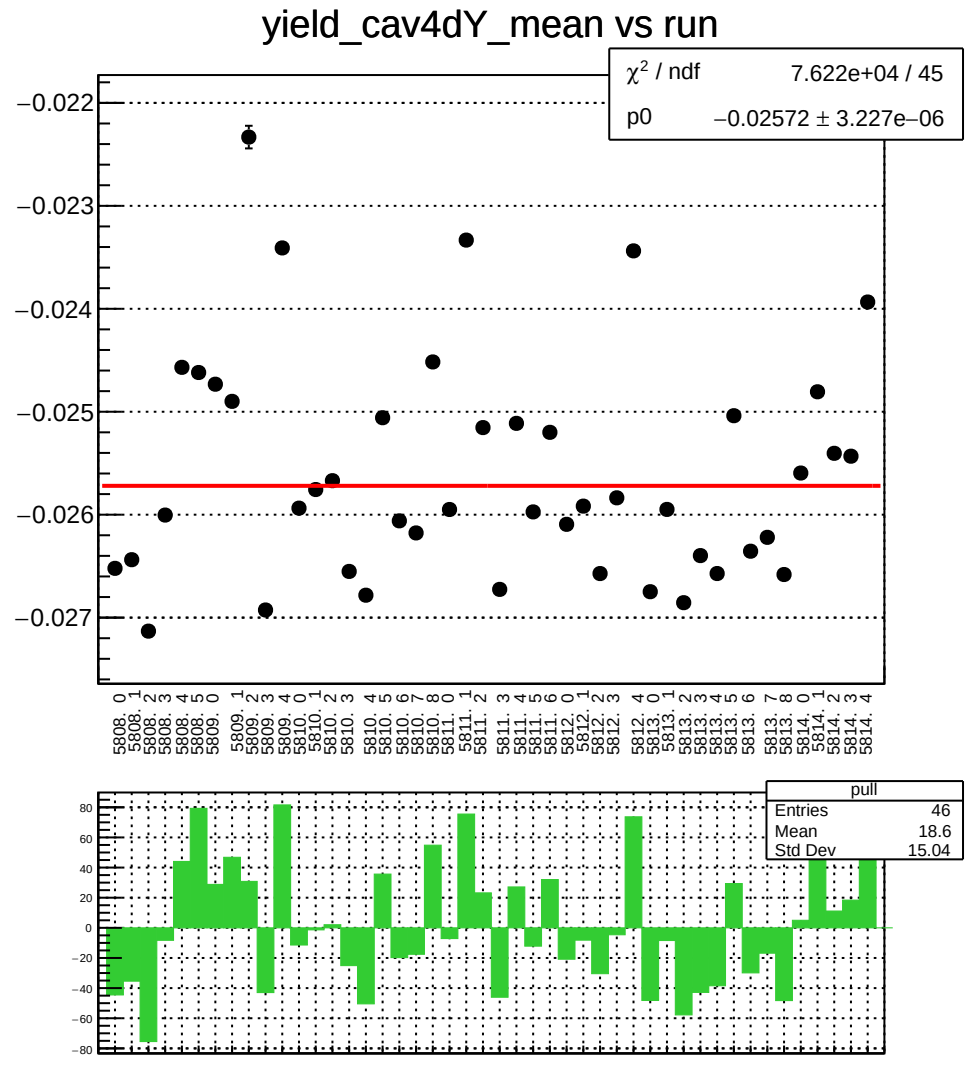
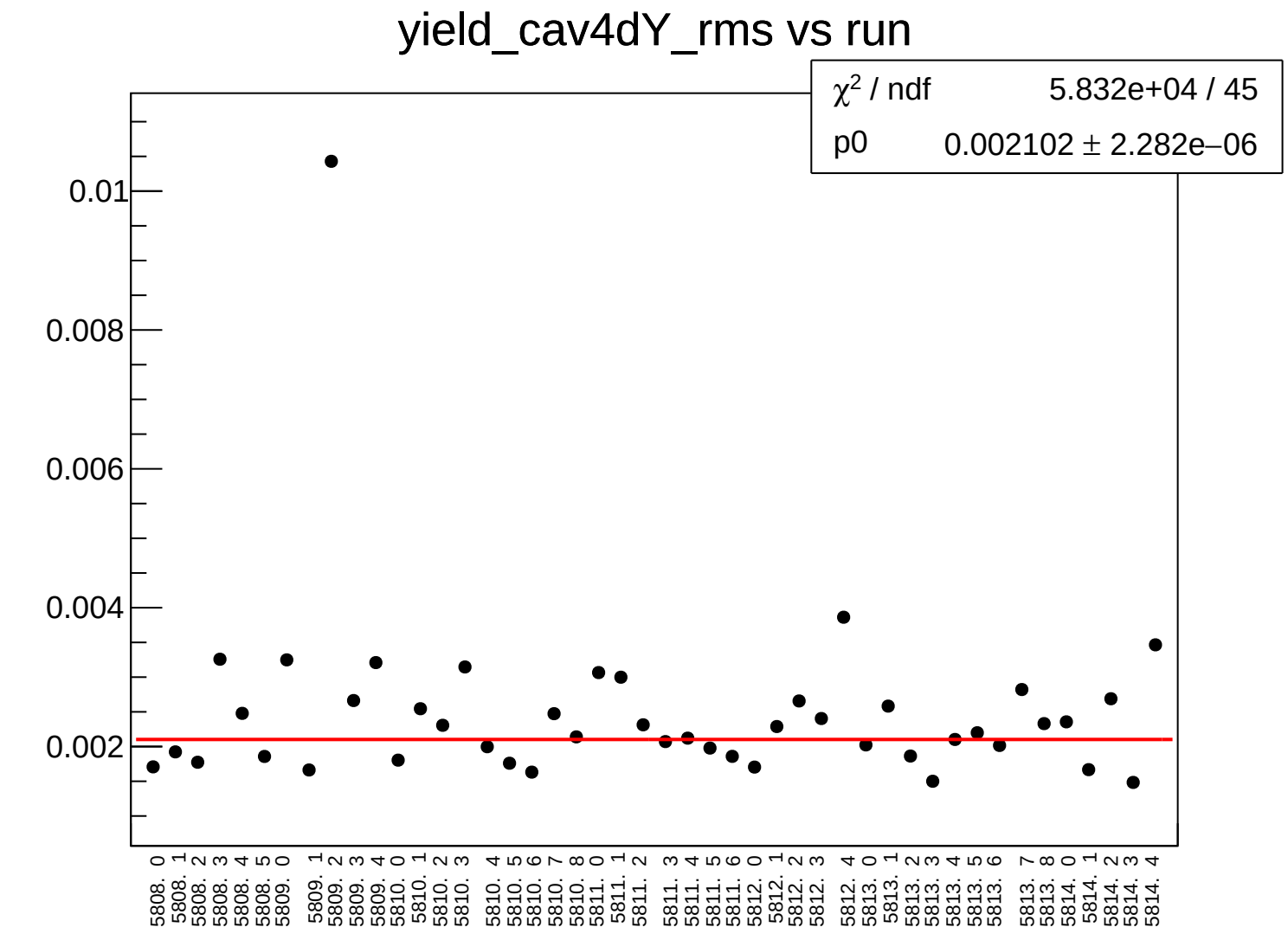
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

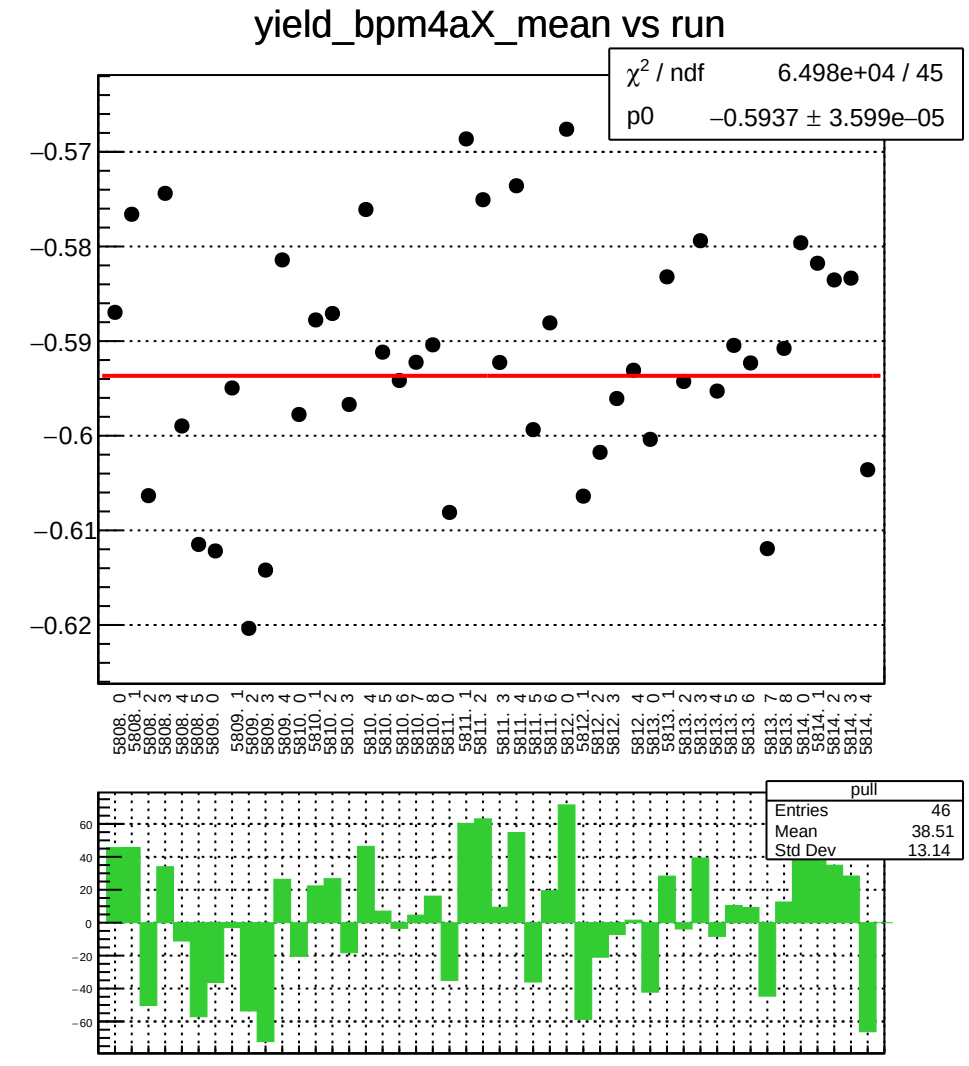

yield_cav4dX_mean vs run
χ² / ndf 6.737e+04 / 45
p0 0.04131± 1.489e–05
0.05
0.045
0.04
0.035
0.03
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 15.28
Std Dev 9.852
80
60
40
20
0
–20
–40
–60
–80

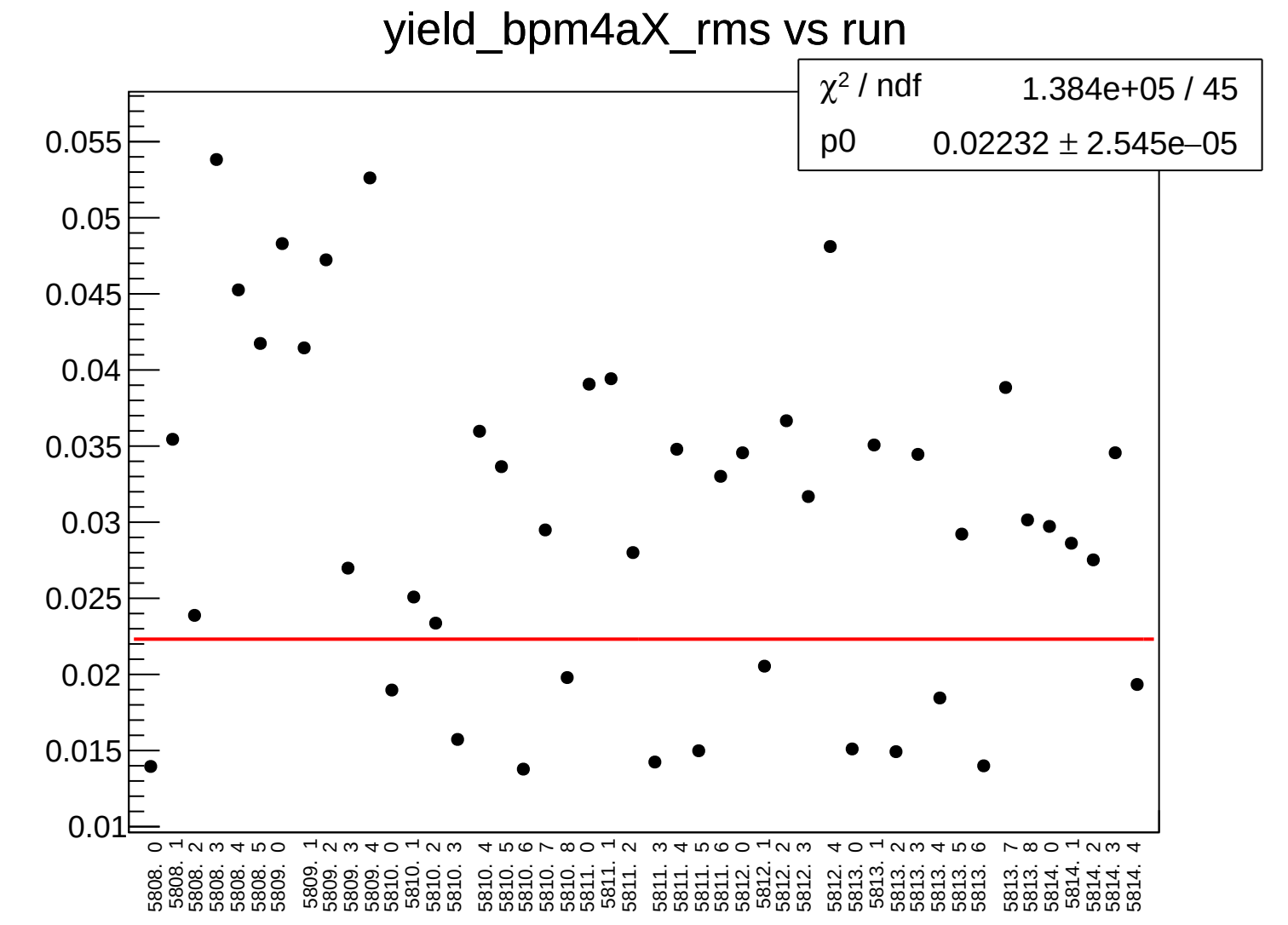

pull1D
Entries 46
Mean –0.8899
Std Dev 5.349
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

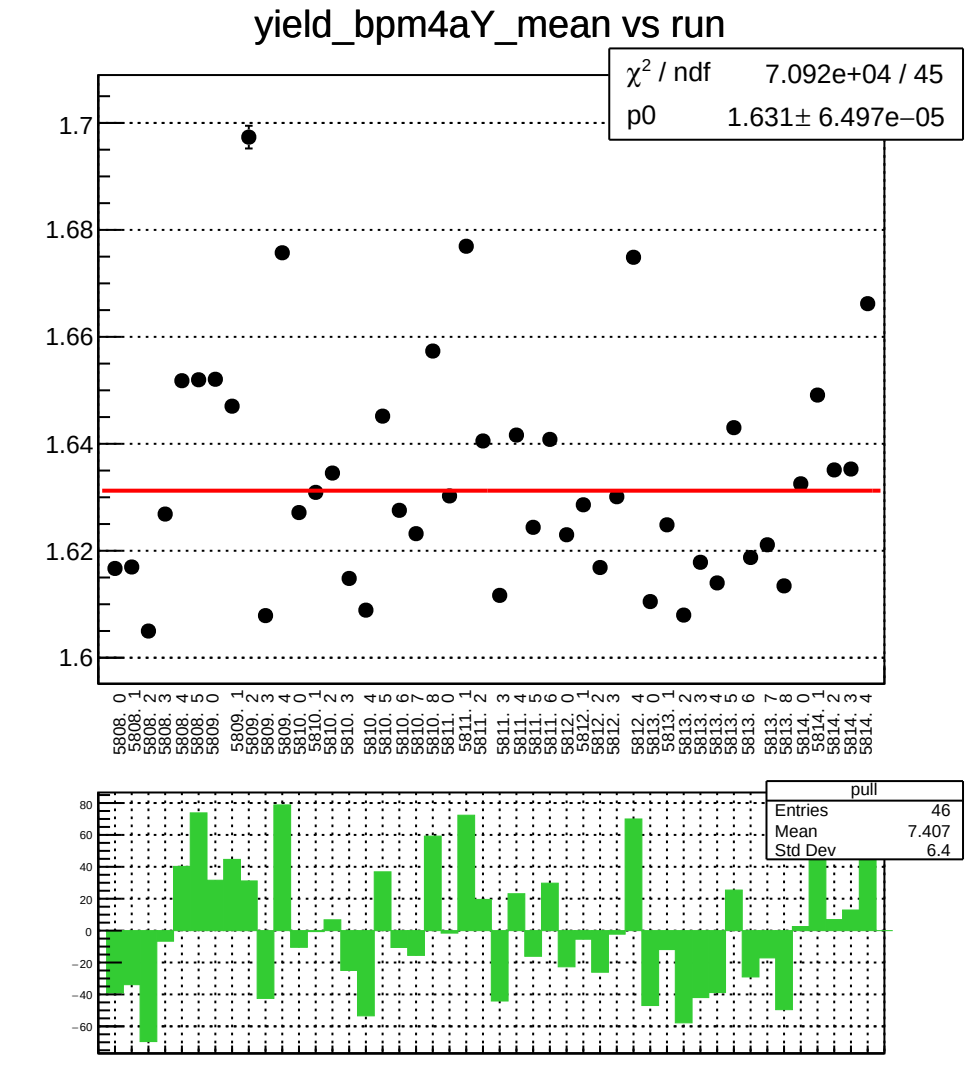

yield_cav4dX_rms vs run
χ² / ndf 1.275e+05 / 45
p0 0.009298 ± 1.053e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

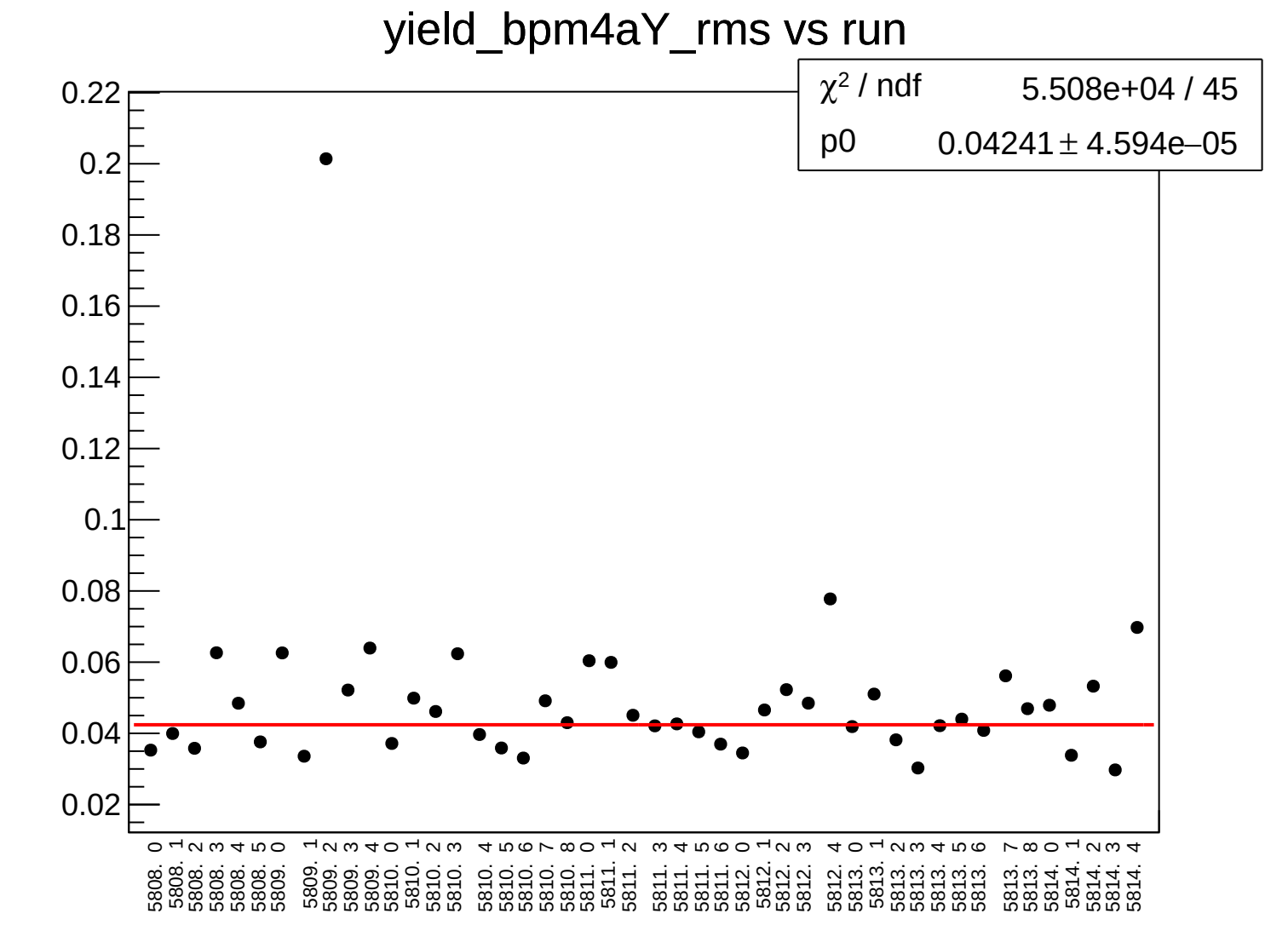

yield_cav4dY_mean vs run
χ² / ndf 7.622e+04 / 45
p0 −0.02572 ± 3.227e−06
−0.022
−0.023
−0.024
−0.025
−0.026
−0.027
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 18.6
Std Dev 15.04
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean −1.198
Std Dev 4.373
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

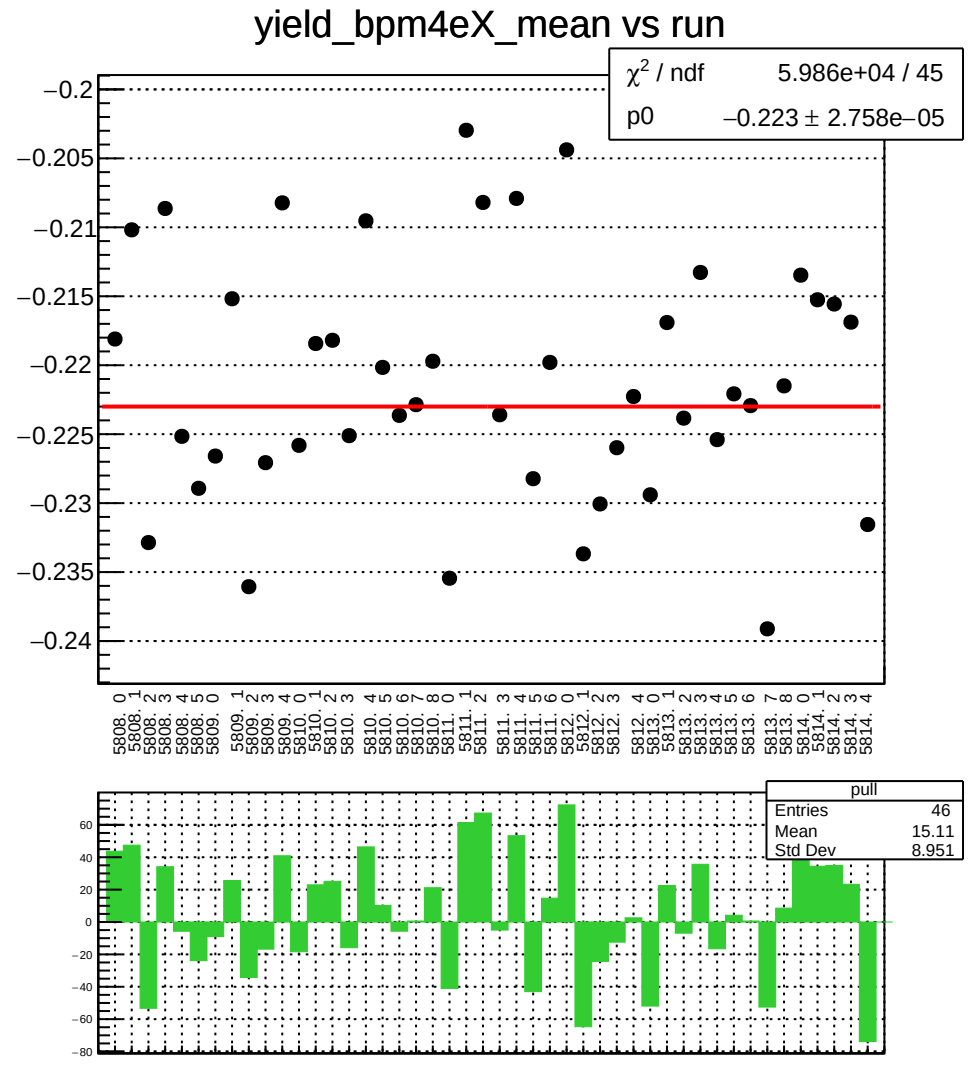

yield_cav4dY_rms vs run
χ² / ndf 5.832e+04 / 45
p0 0.002102 ± 2.282e−06
0.01
0.008
0.006
0.004
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

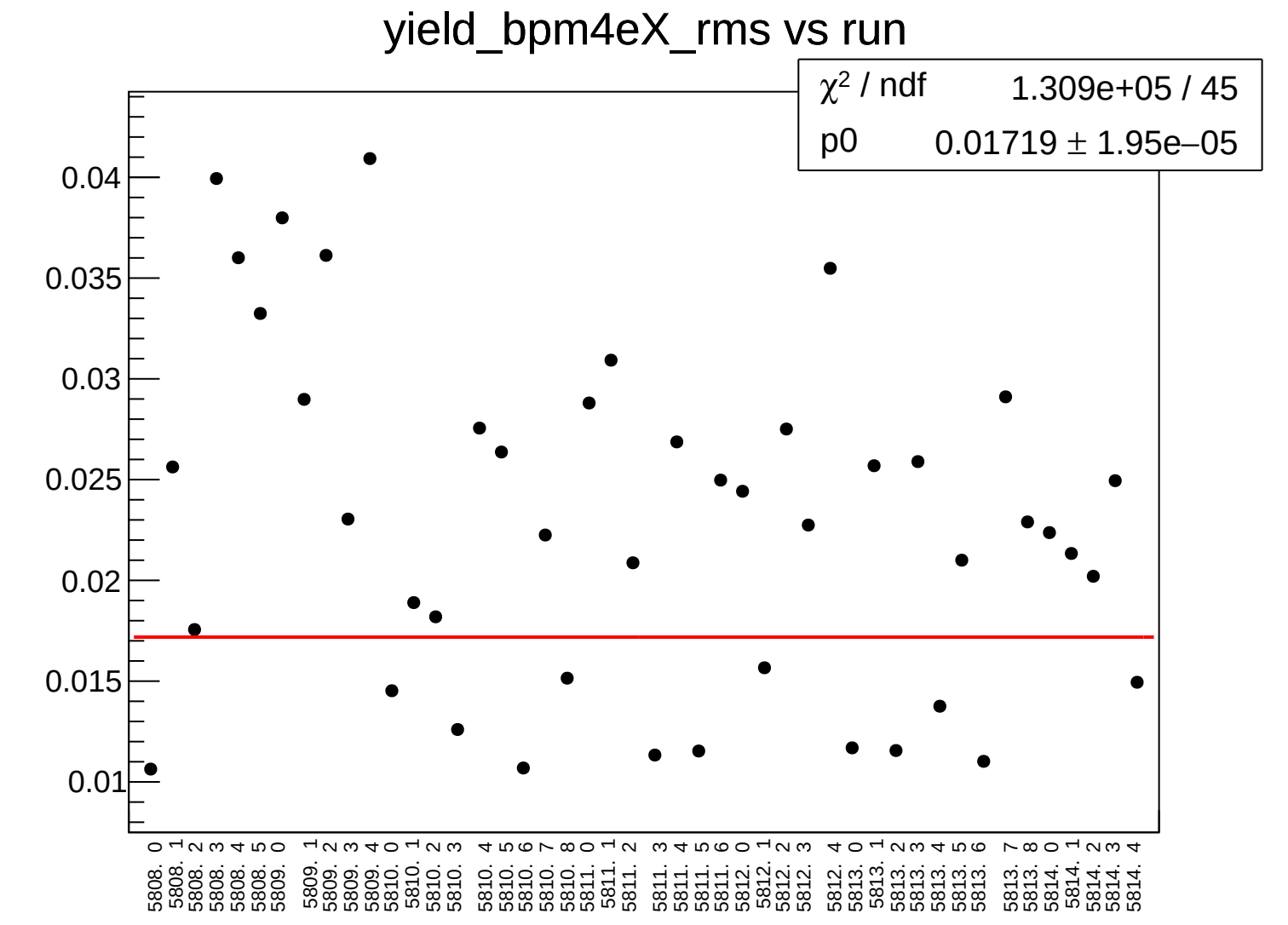

yield_bpm4aX_mean vs run
χ² / ndf 6.498e+04 / 45
p0 −0.5937 ± 3.599e−05
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 38.51
Std Dev 13.14
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −0.5919
Std Dev 4.736
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

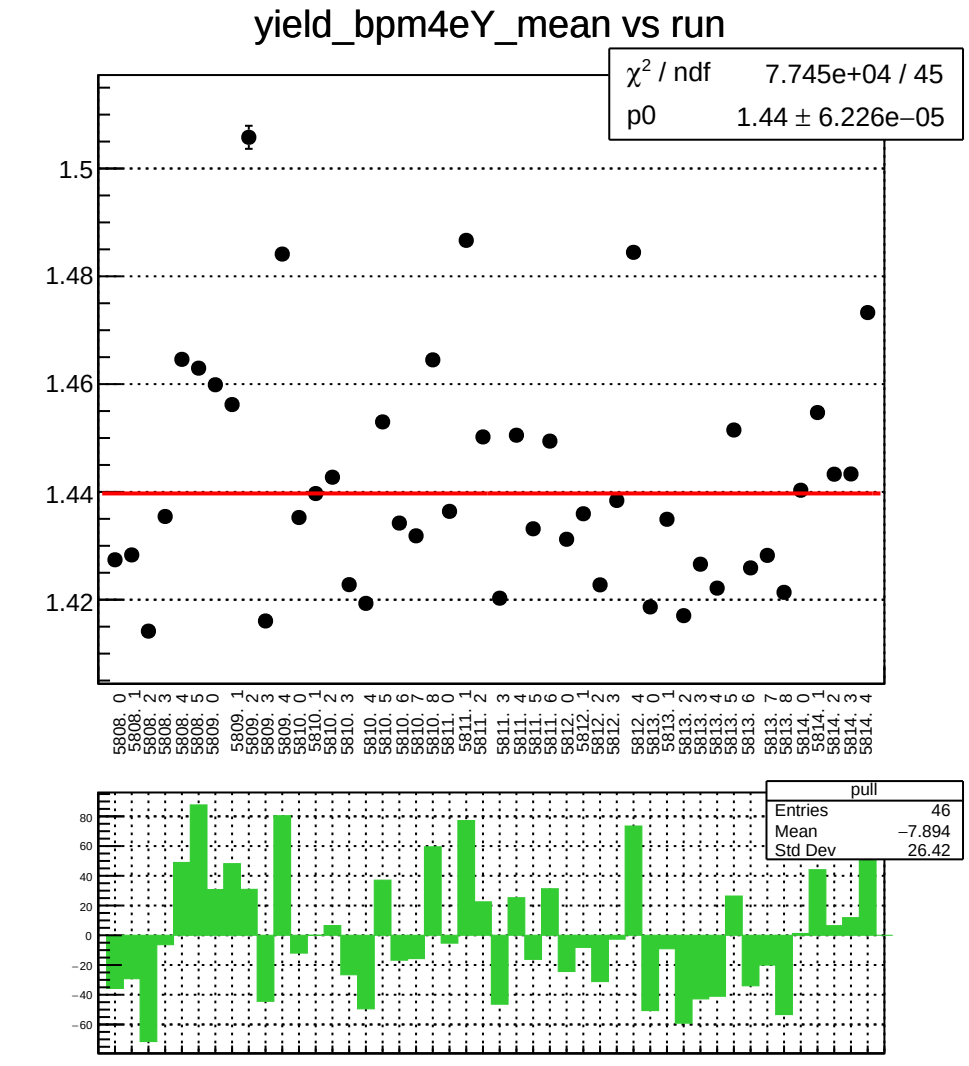

yield_bpm4aX_rms vs run
χ² / ndf 1.384e+05 / 45
p0 0.02232 ± 2.545e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

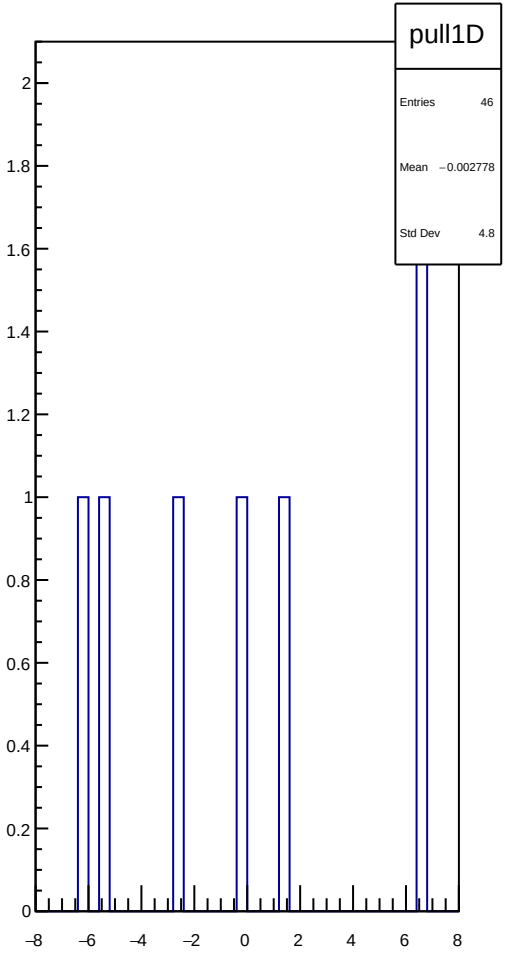

yield_bpm4aY_mean vs run
χ² / ndf 7.092e+04 / 45
p0 1.631± 6.497e−05
1.7
1.68
1.66
1.64
1.62
1.6
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 7.407
Std Dev 6.4
80
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −0.01516
Std Dev 4.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

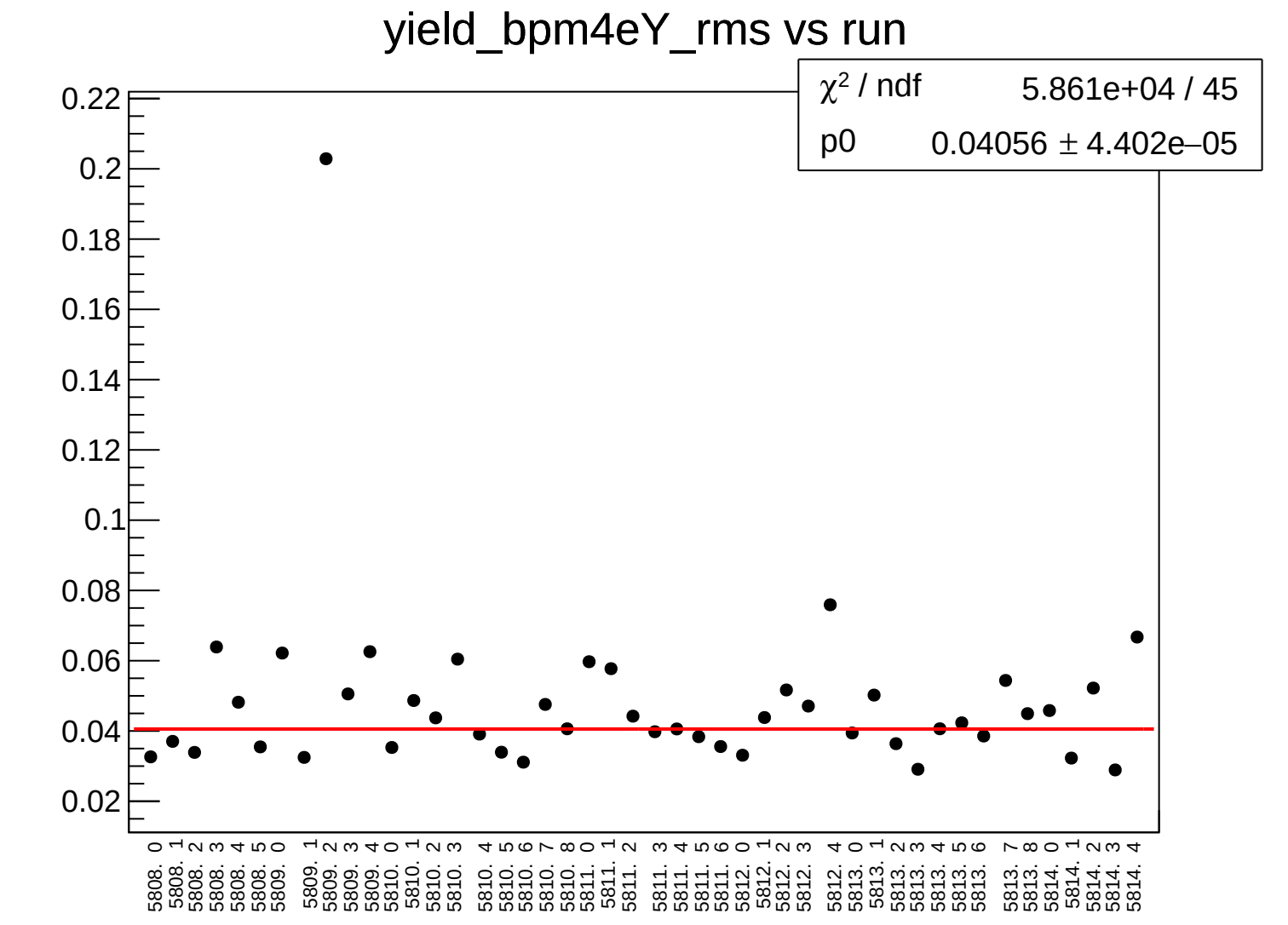

yield_bpm4aY_rms vs run
χ² / ndf 5.508e+04 / 45
p0 0.04241 ± 4.594e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

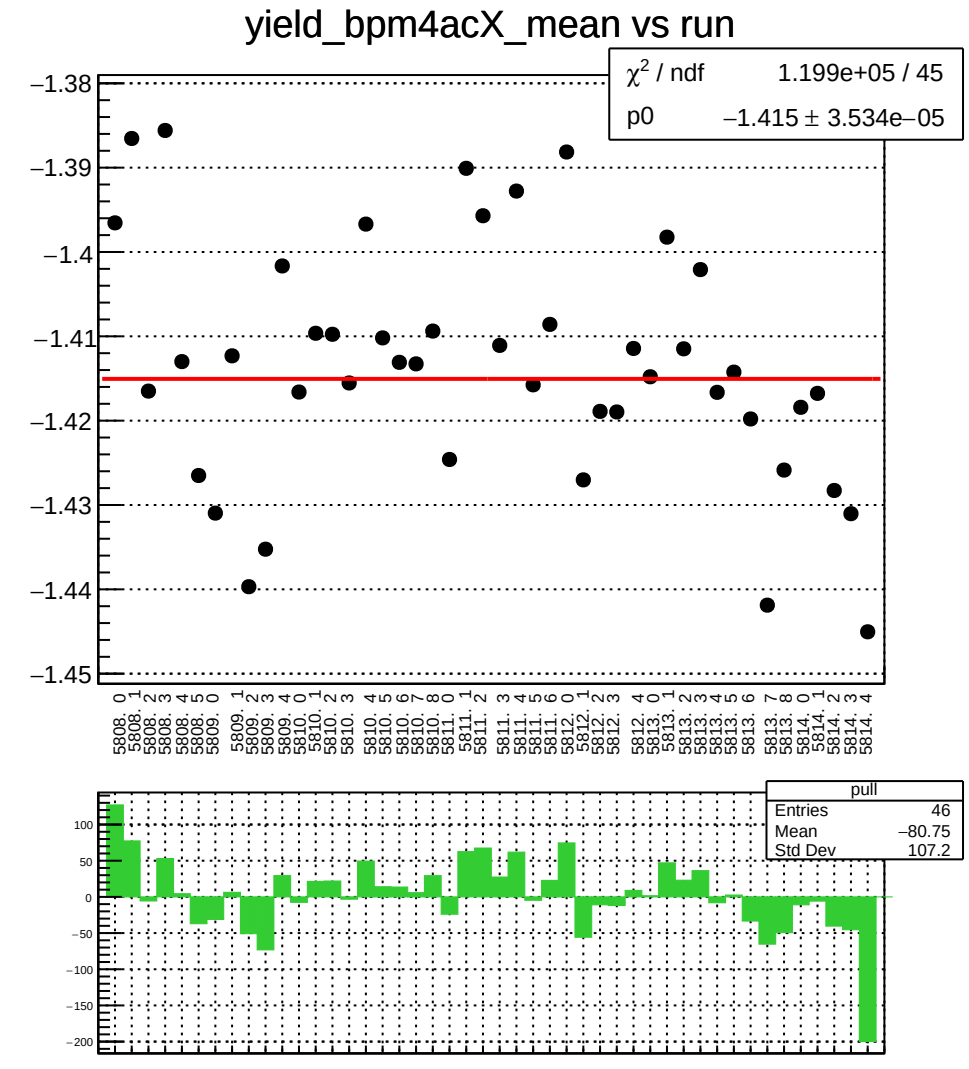

yield_bpm4eX_mean vs run
χ² / ndf 5.986e+04 / 45
p0 −0.223 ± 2.758e−05
−0.2
−0.205
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
−0.24
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 15.11
Std Dev 8.951
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean −1.908
Std Dev 4.062
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

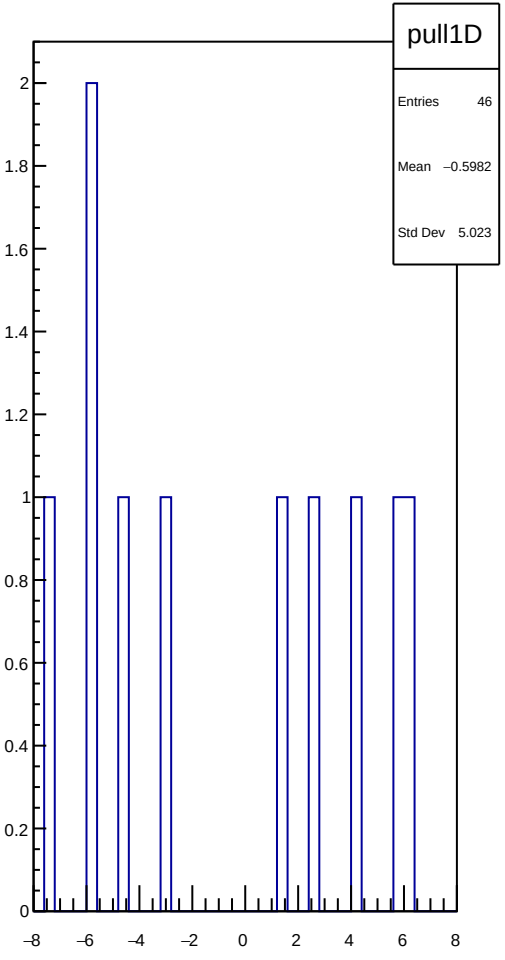

yield_bpm4eX_rms vs run
χ² / ndf 1.309e+05 / 45
p0 0.01719 ± 1.95e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

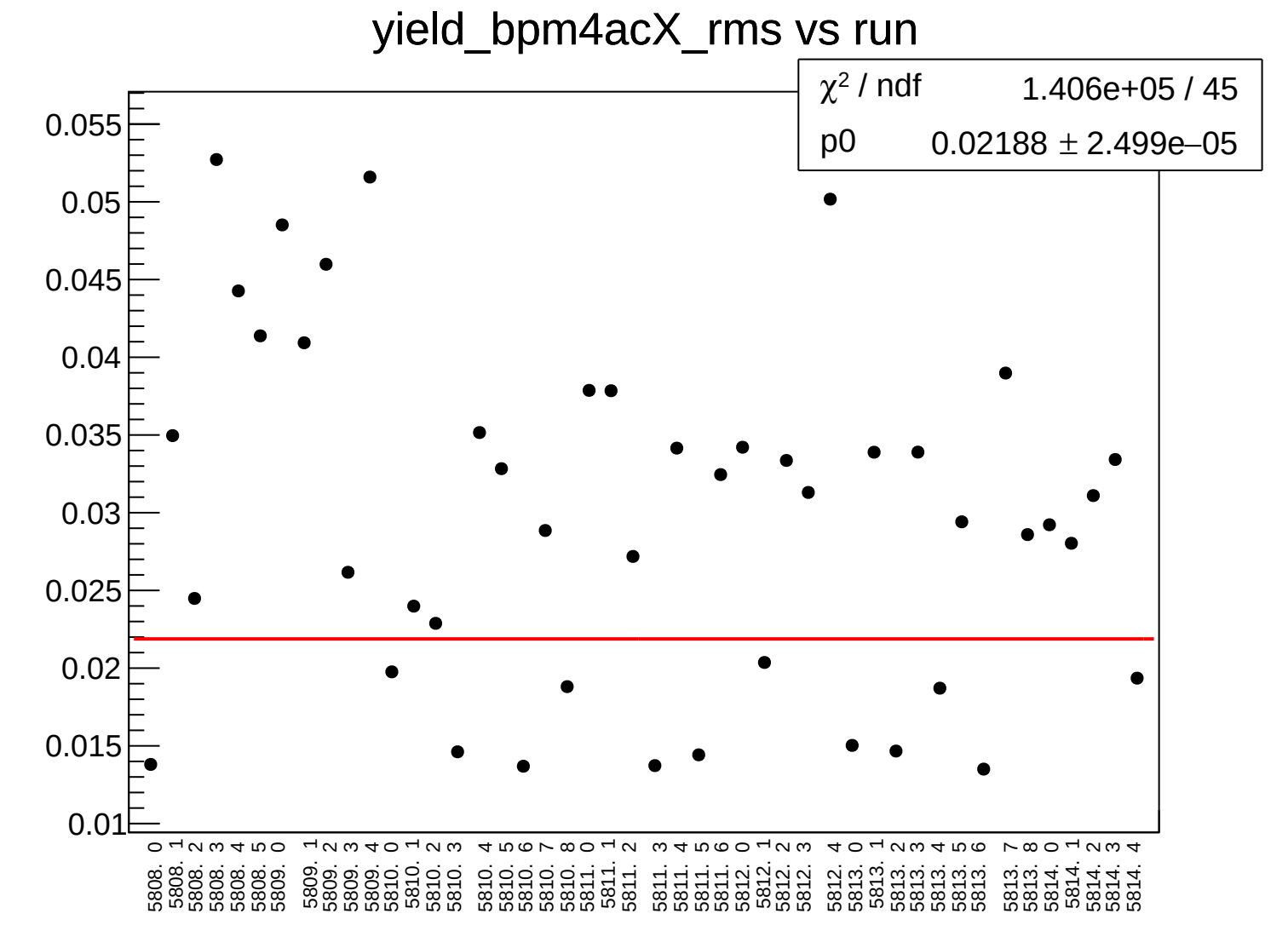

yield_bpm4eY_mean vs run
χ² / ndf 7.745e+04 / 45
p0 1.44 ± 6.226e−05
1.5
1.48
1.46
1.44
1.42
pull
Entries 46
Mean −7.894
Std Dev 26.42
80
60
40
20
0
−20
−40
−60


pull1D
Entries 46
Mean −0.002778
Std Dev 4.8
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4eY_rms vs run
χ² / ndf 5.861e+04 / 45
p0 0.04056 ± 4.402e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm4acX_mean vs run
χ² / ndf 1.199e+05 / 45
p0 −1.415 ± 3.534e−05
−1.38
−1.39
−1.4
−1.41
−1.42
−1.43
−1.44
−1.45
pull
Entries 46
Mean −80.75
Std Dev 107.2
100
50
0
−50
−100
−150
−200


pull1D
Entries 46
Mean −0.5982
Std Dev 5.023
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_bpm4acX_rms vs run
χ² / ndf 1.406e+05 / 45
p0 0.02188 ± 2.499e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
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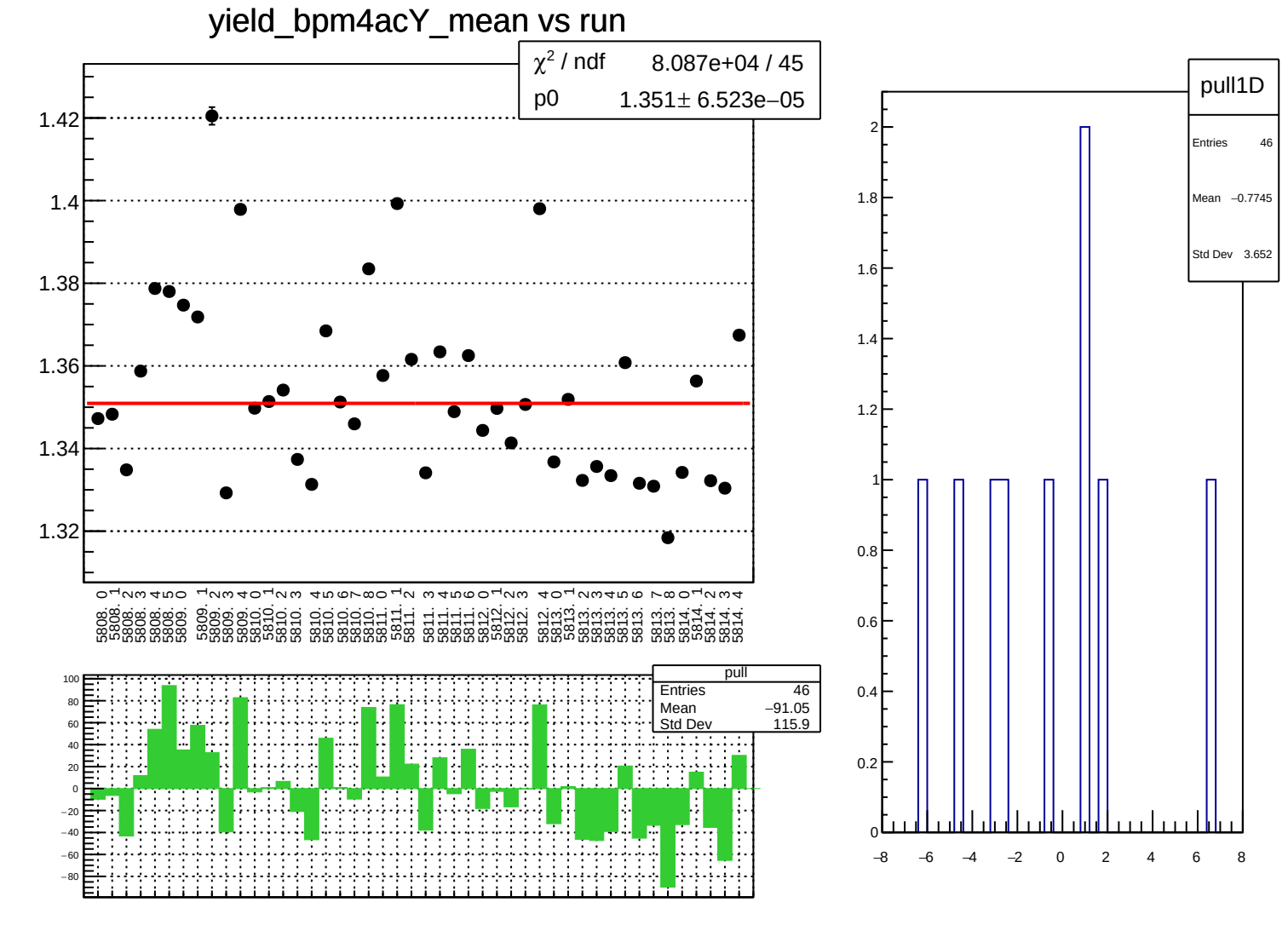
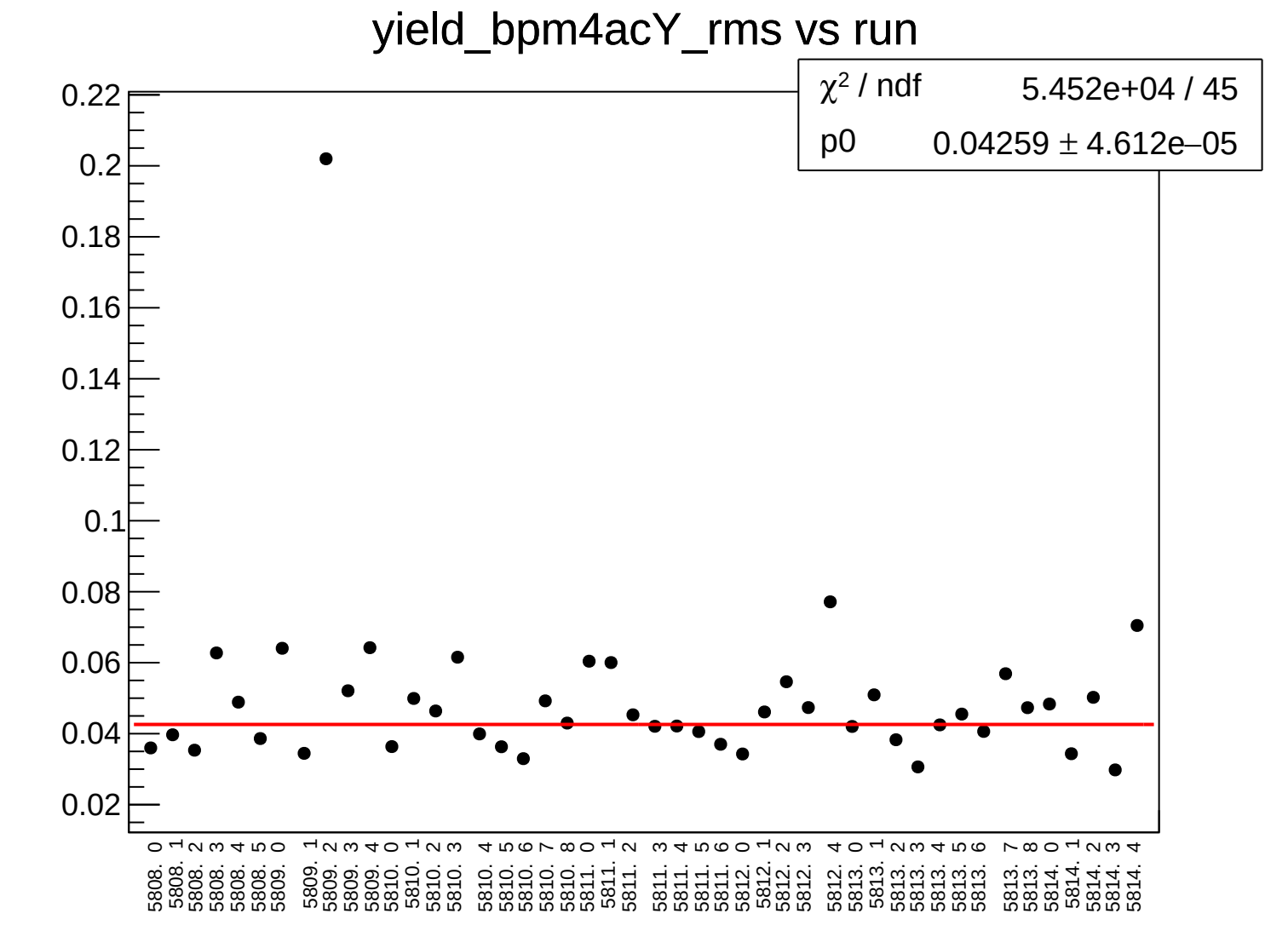
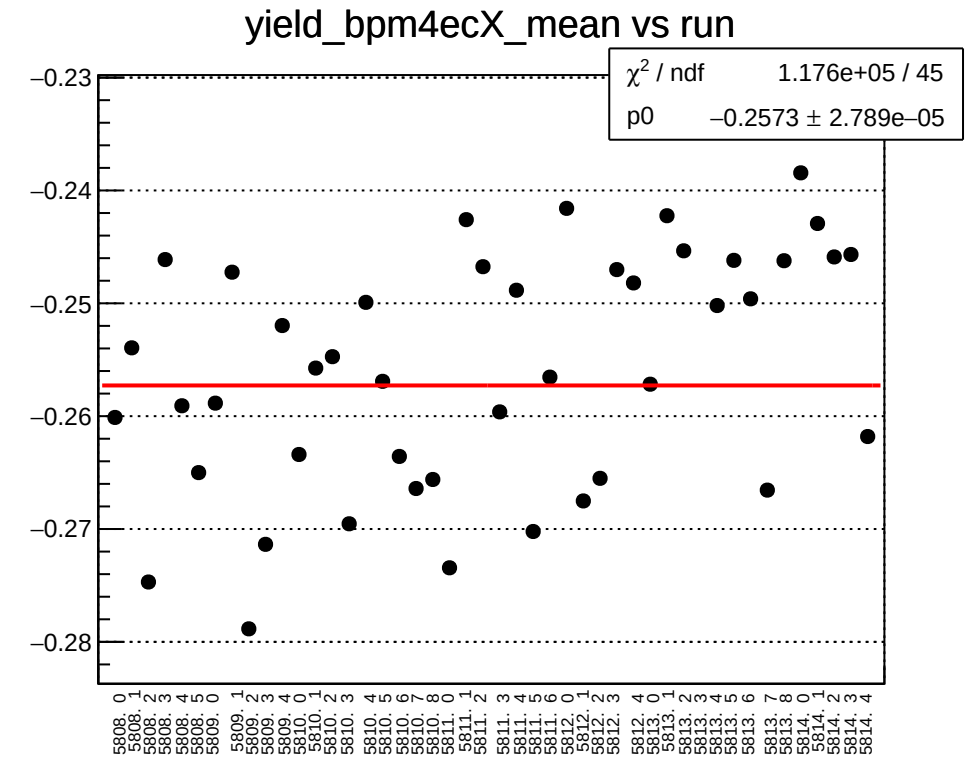
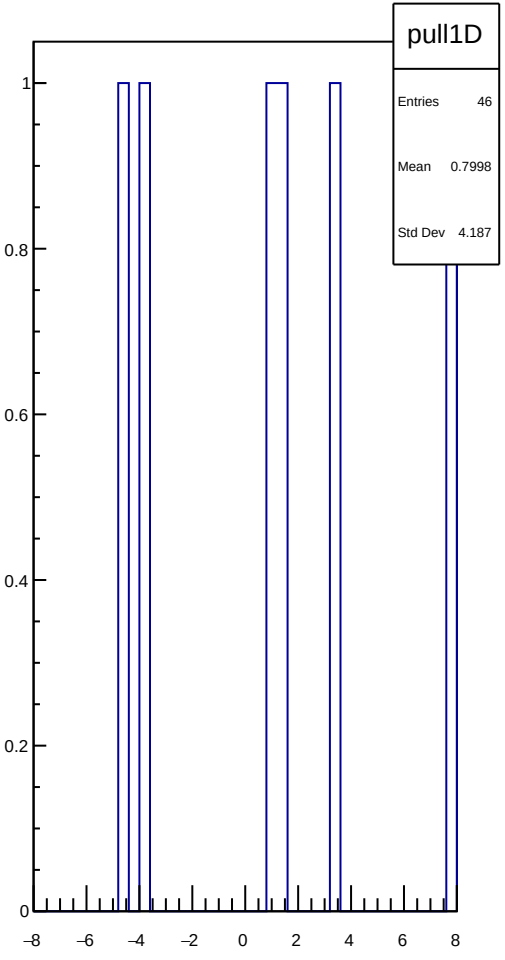
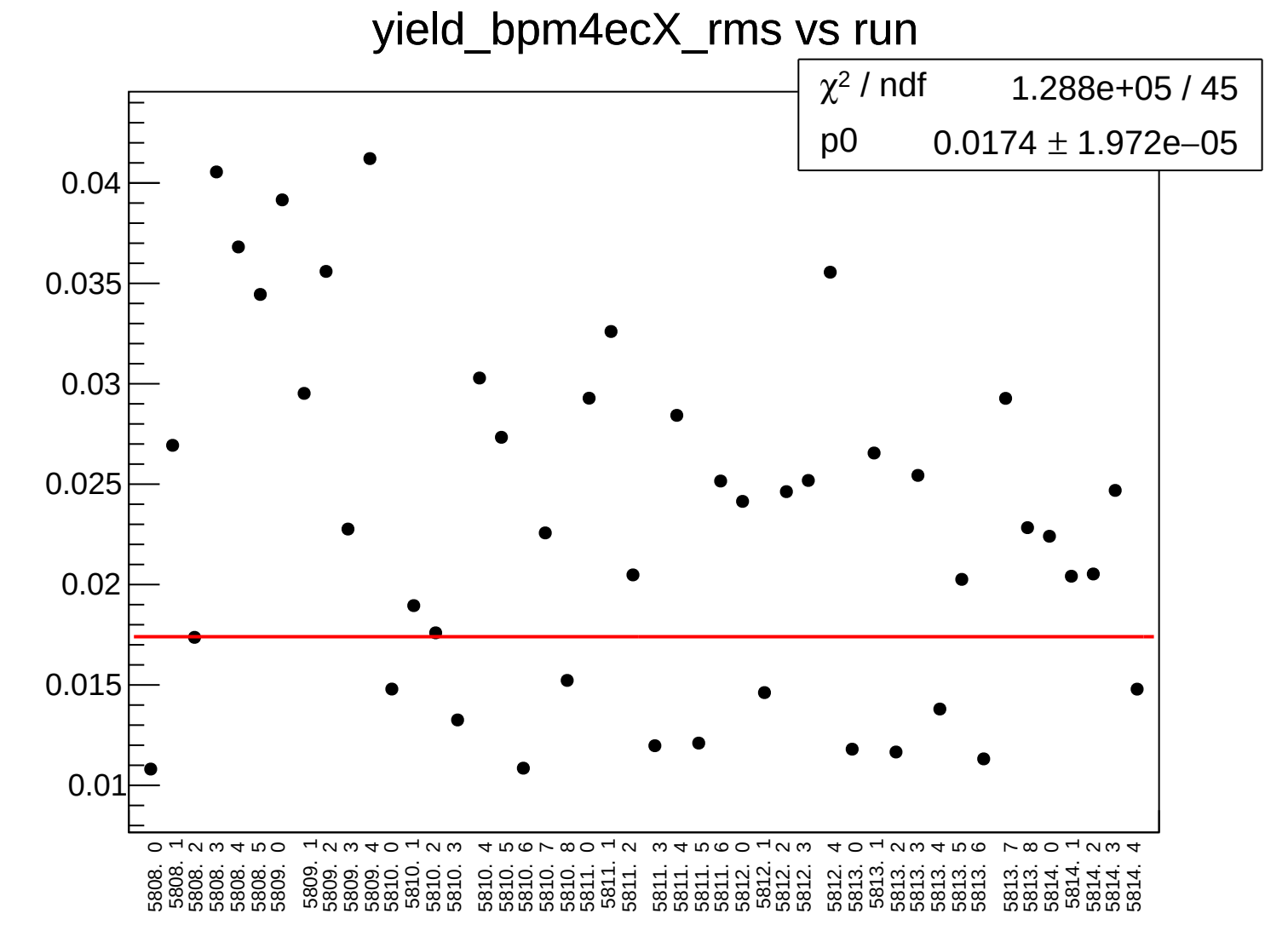
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

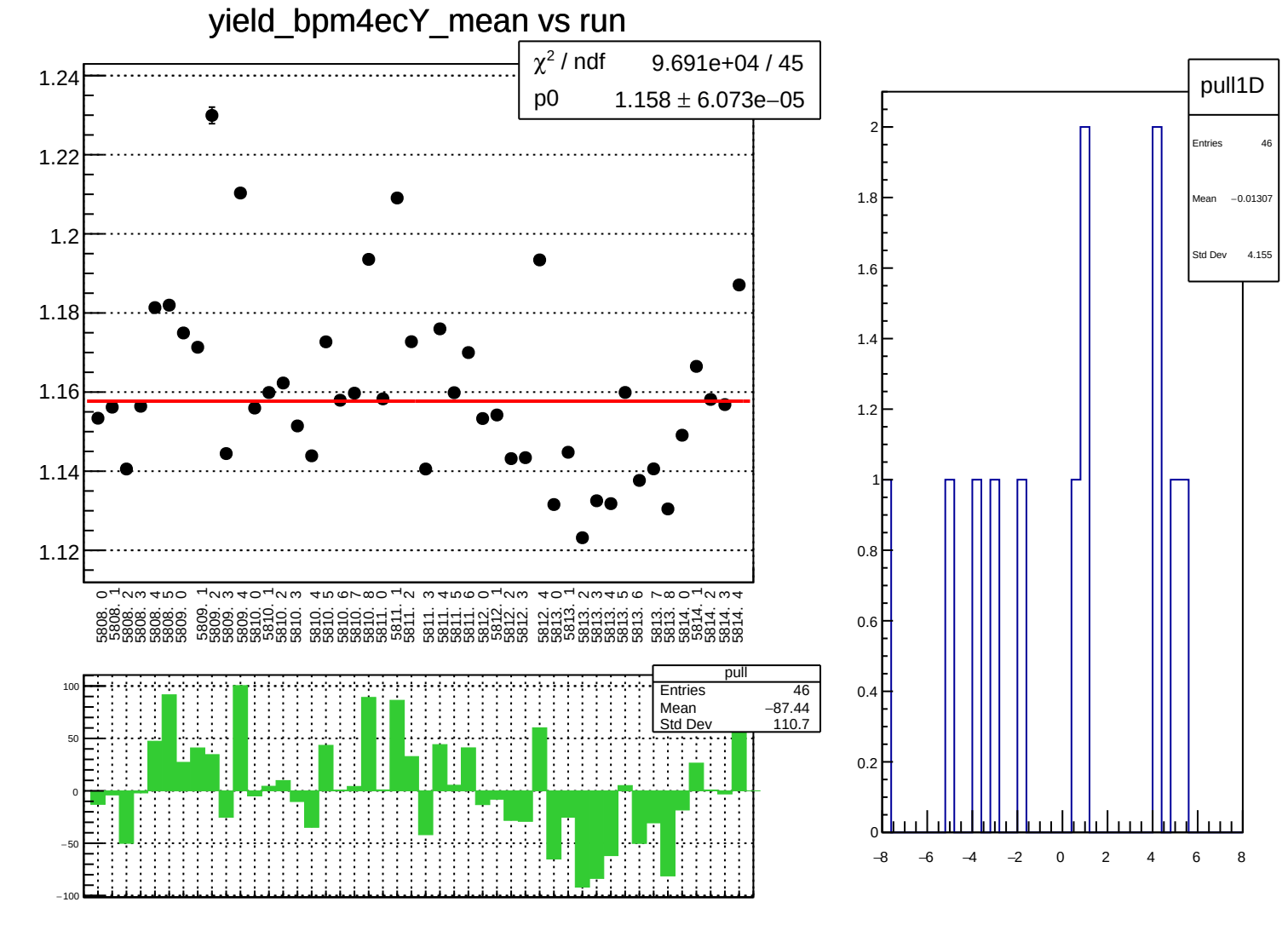

yield_bpm4acY_mean vs run
χ² / ndf 8.087e+04 / 45
p0 1.351± 6.523e−05
1.42
1.4
1.38
1.36
1.34
1.32
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −91.05
Std Dev 115.9
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean −0.7745
Std Dev 3.652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

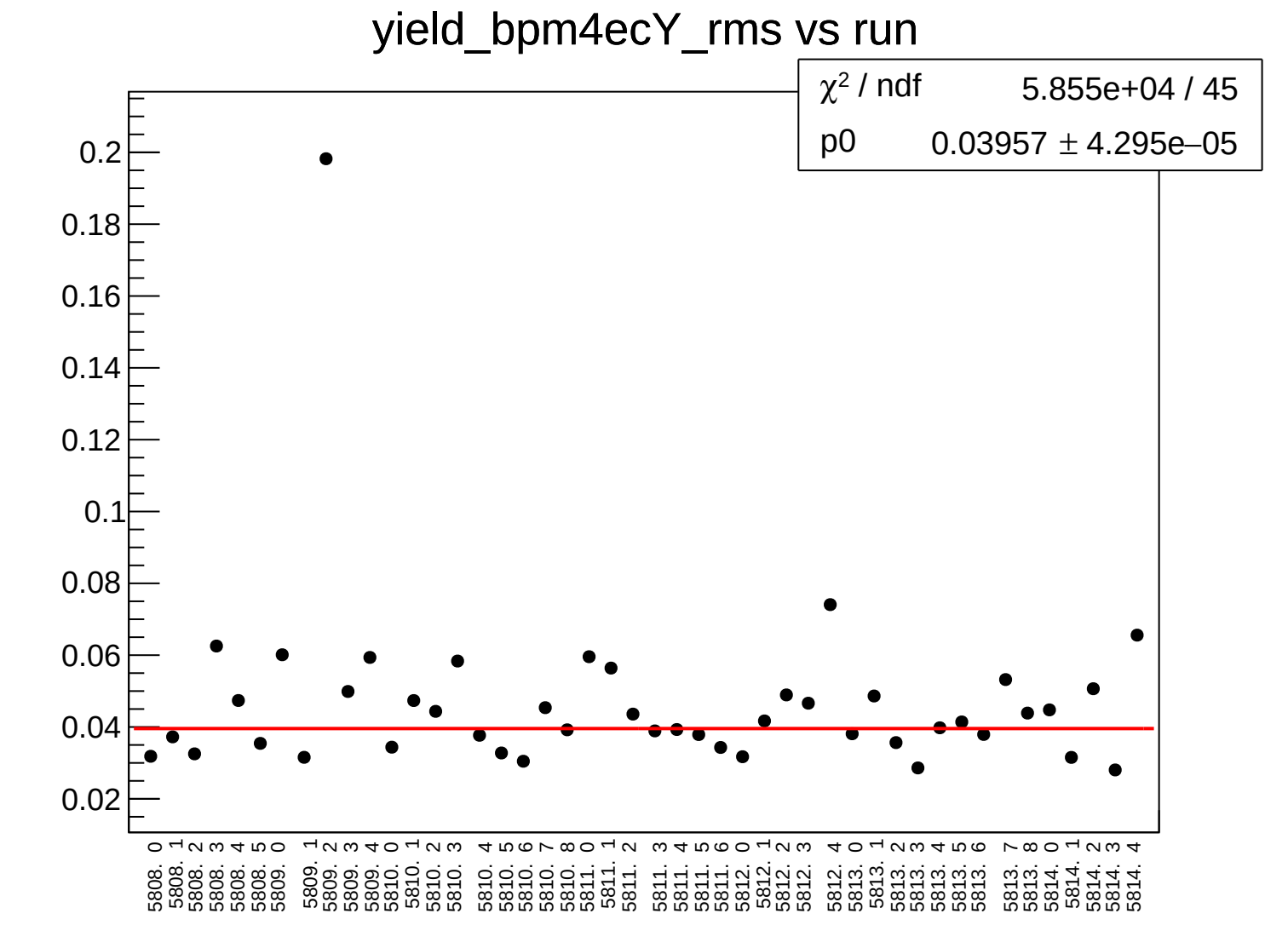

yield_bpm4acY_rms vs run
χ² / ndf 5.452e+04 / 45
p0 0.04259 ± 4.612e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

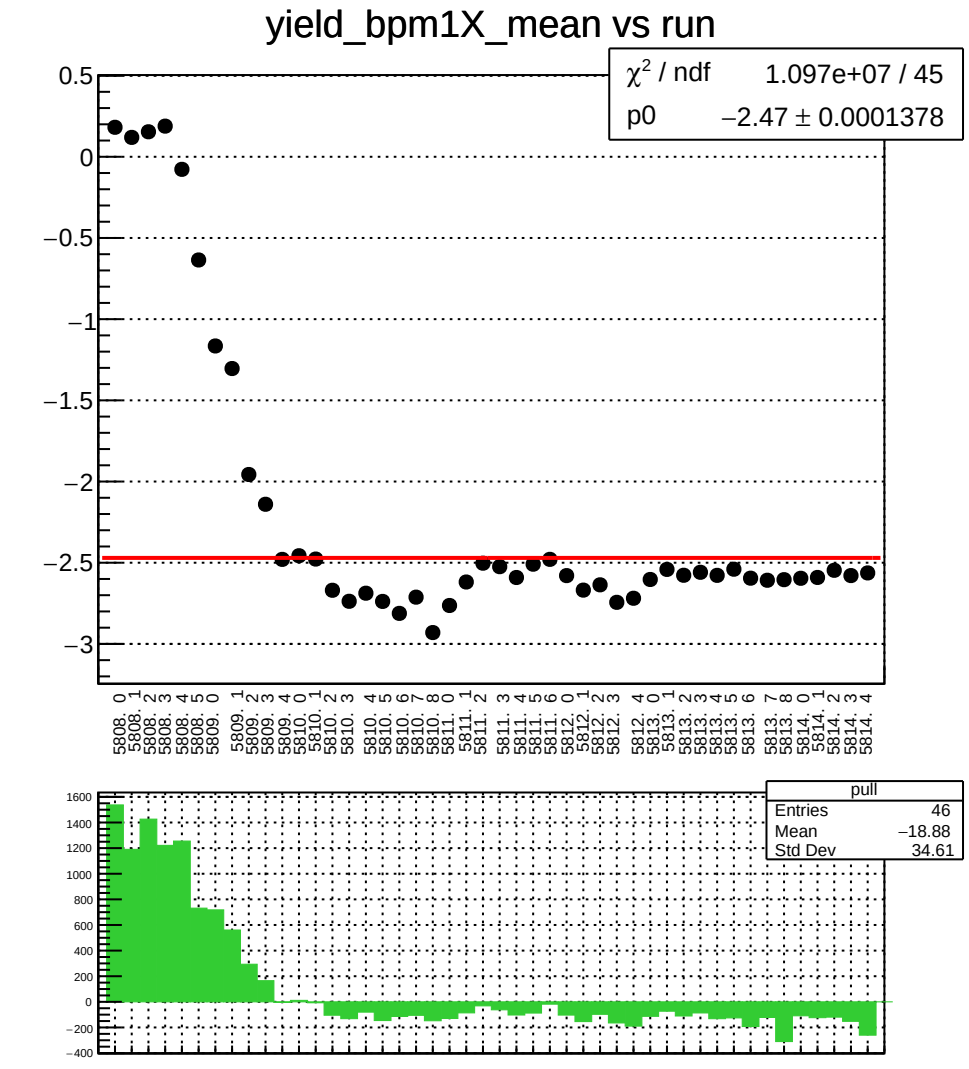

yield_bpm4ecX_mean vs run
χ² / ndf 1.176e+05 / 45
p0 −0.2573 ± 2.789e−05
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 93.97
Std Dev 68.09
100
50
0
−50
−100

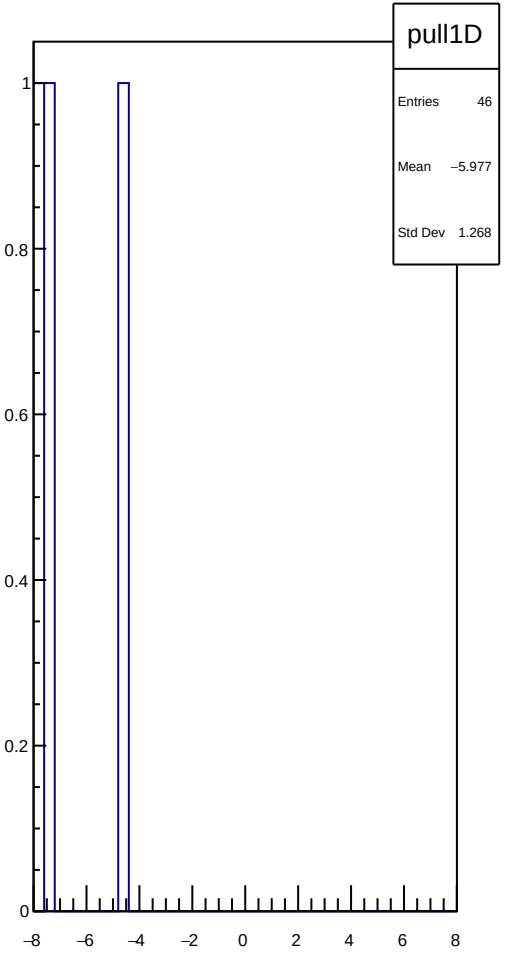

pull1D
Entries 46
Mean 0.7998
Std Dev 4.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

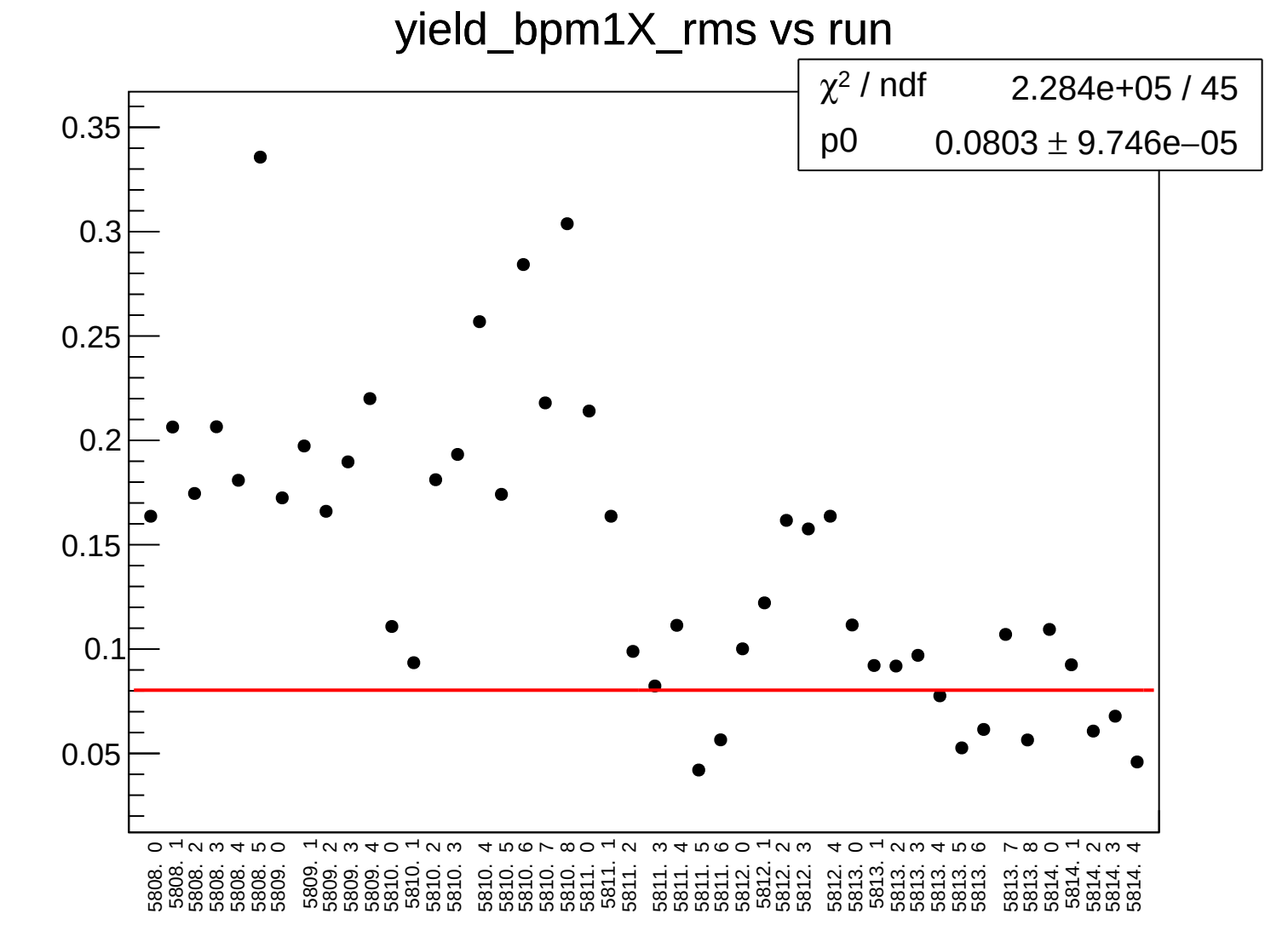

yield_bpm4ecX_rms vs run
χ² / ndf 1.288e+05 / 45
p0 0.0174 ± 1.972e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

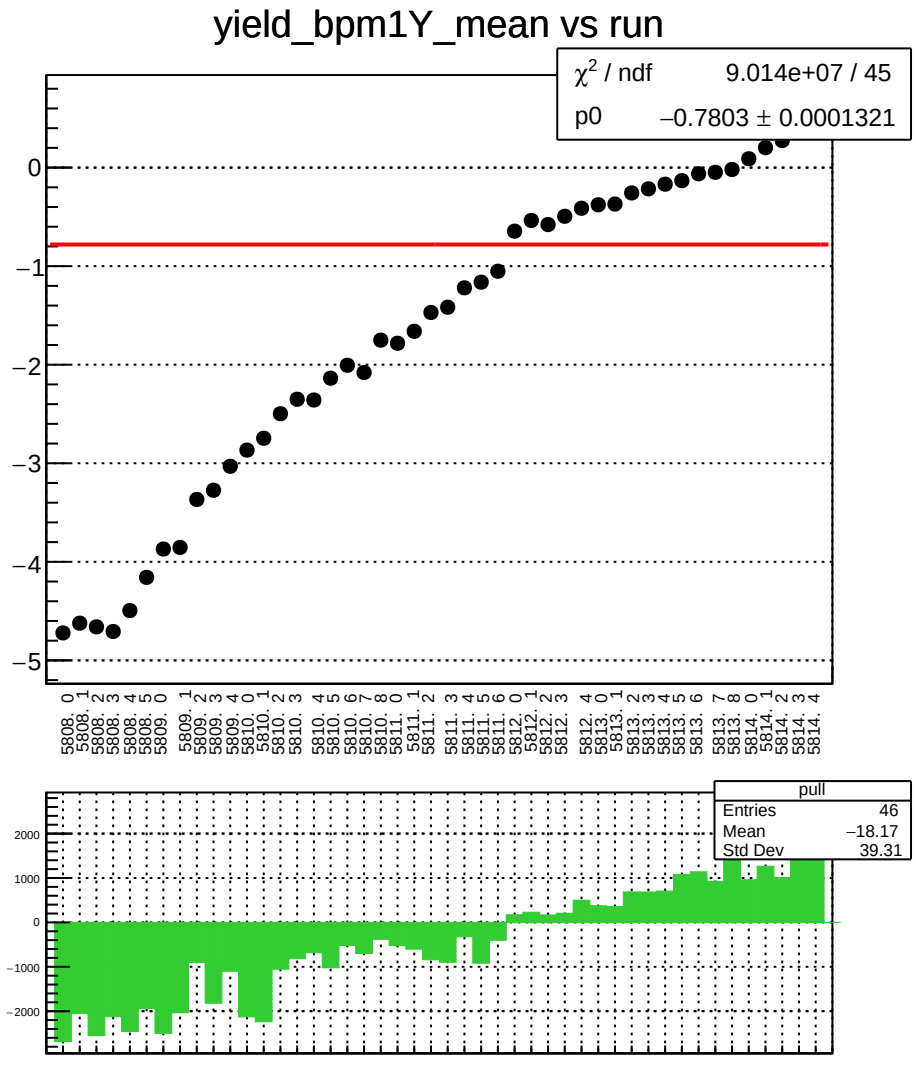

yield_bpm4ecY_mean vs run
χ² / ndf 9.691e+04 / 45
p0 1.158 ± 6.073e−05
1.24
1.22
1.2
1.18
1.16
1.14
1.12
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −87.44
Std Dev 110.7
100
50
0
−50
−100
pull1D
Entries 46
Mean −0.01307
Std Dev 4.155
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

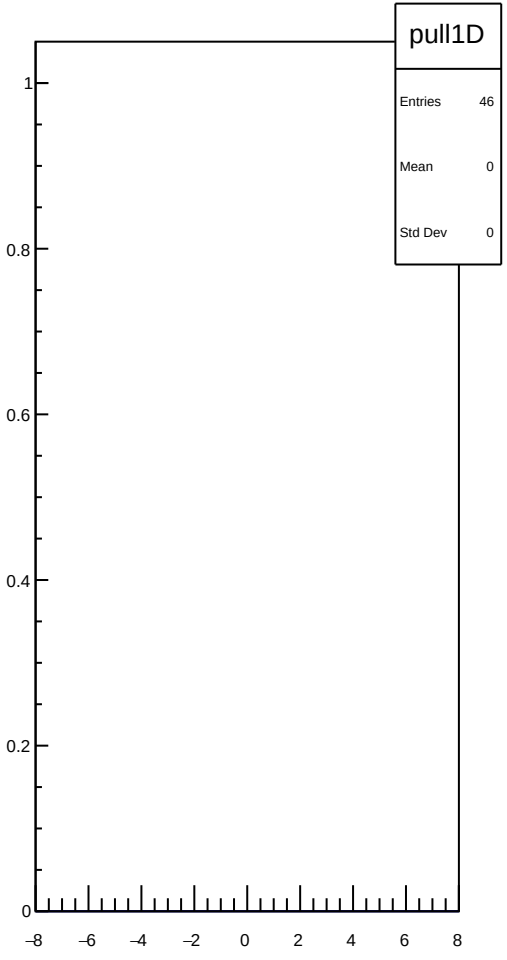

yield_bpm4ecY_rms vs run
χ² / ndf 5.855e+04 / 45
p0 0.03957 ± 4.295e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

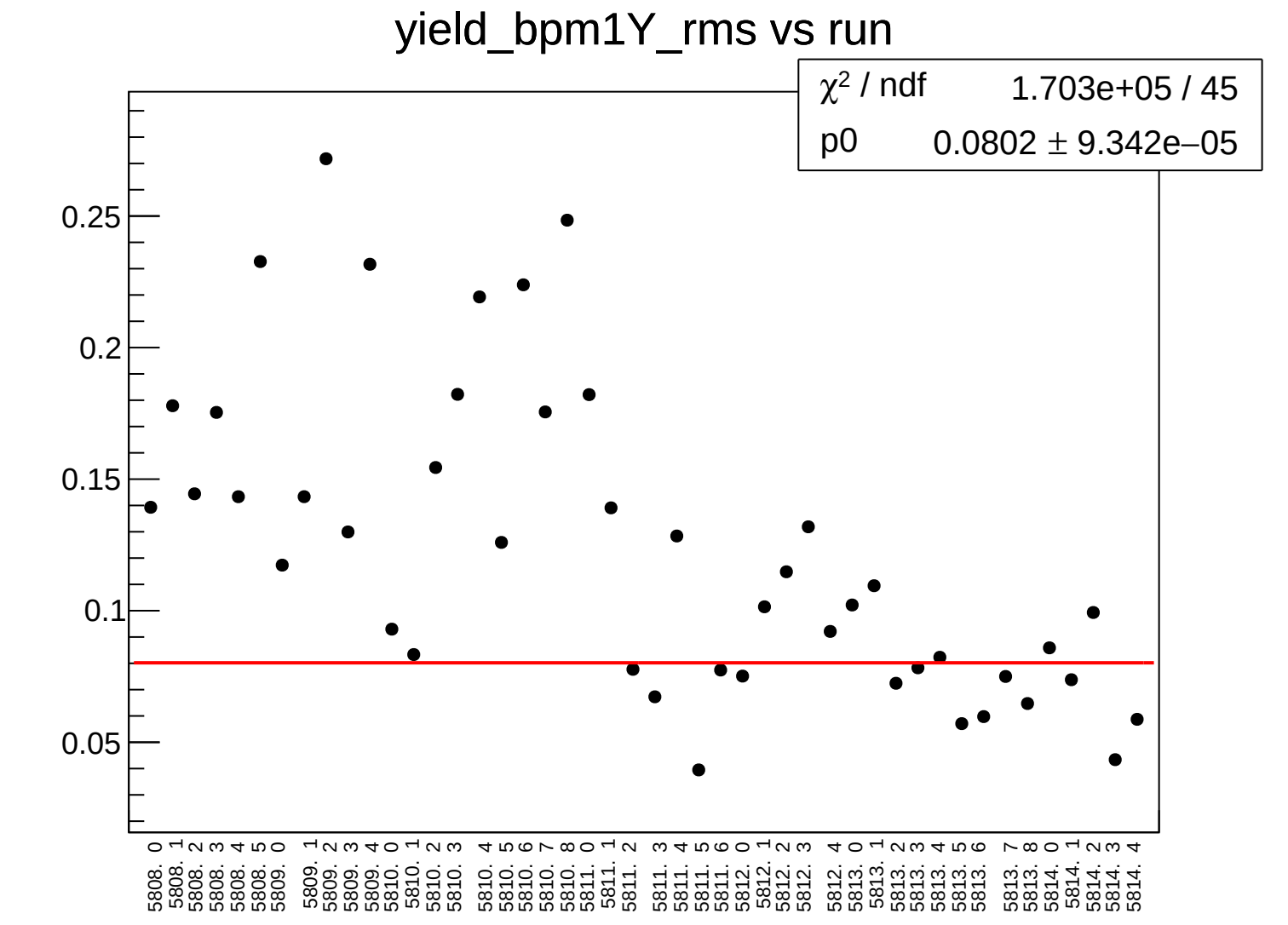

yield_bpm1X_mean vs run
χ² / ndf 1.097e+07 / 45
p0 −2.47 ± 0.0001378
pull
Entries 46
Mean −18.88
Std Dev 34.61

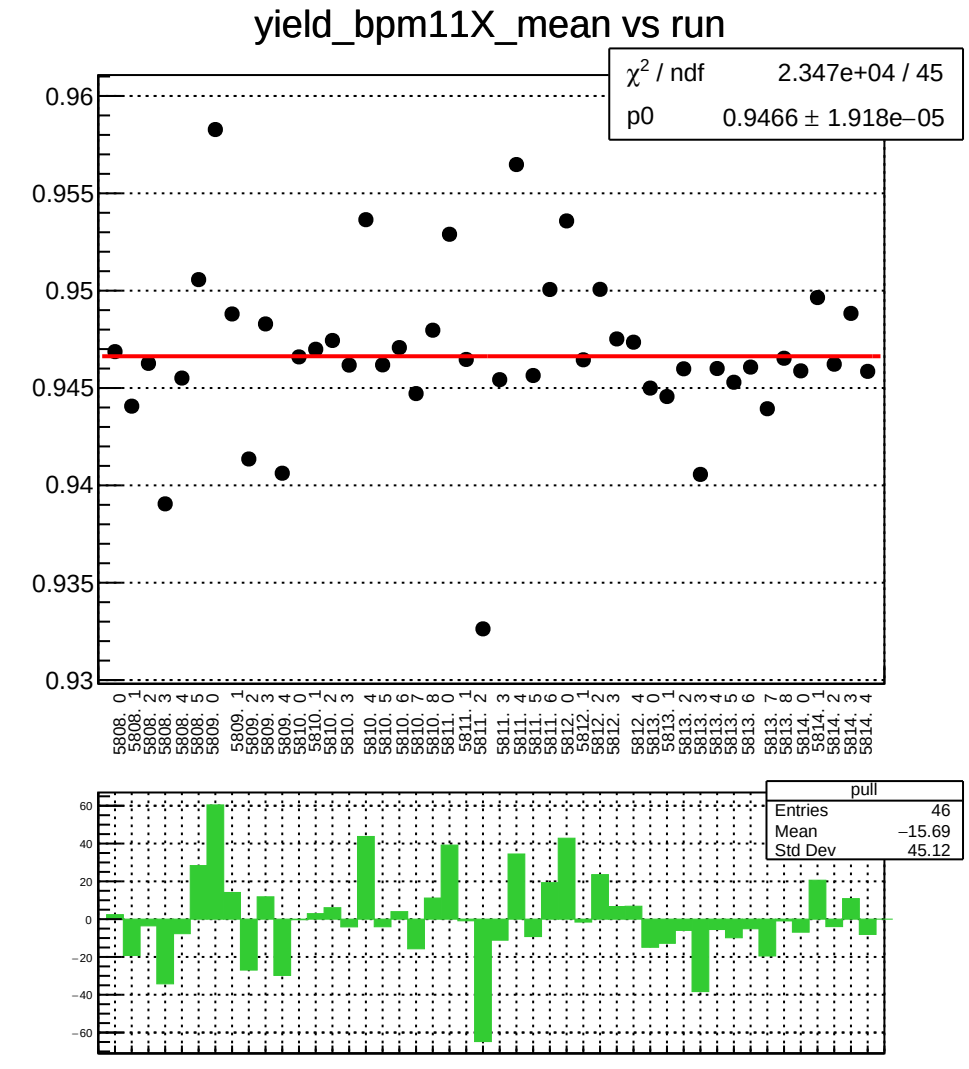

pull1D
Entries 46
Mean −5.977
Std Dev 1.268

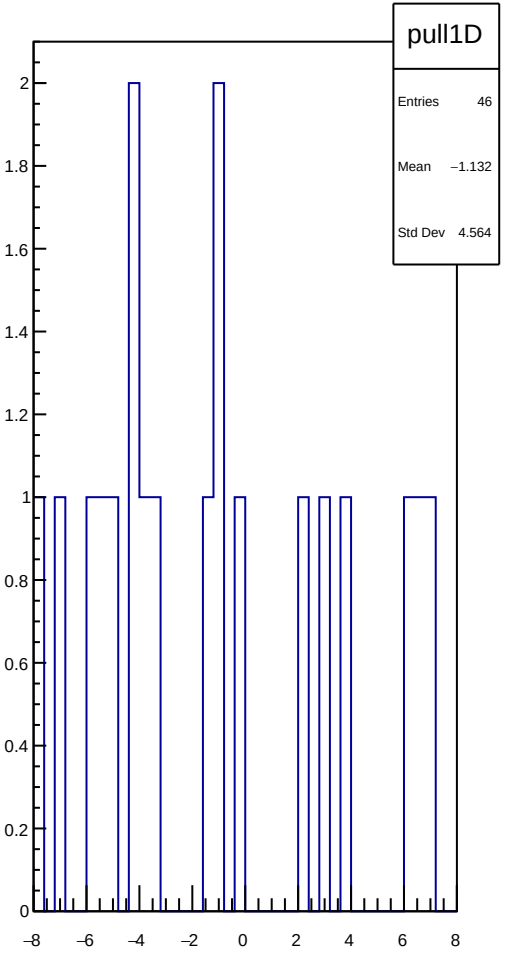

yield_bpm1X_rms vs run
χ² / ndf 2.284e+05 / 45
p0 0.0803 ± 9.746e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

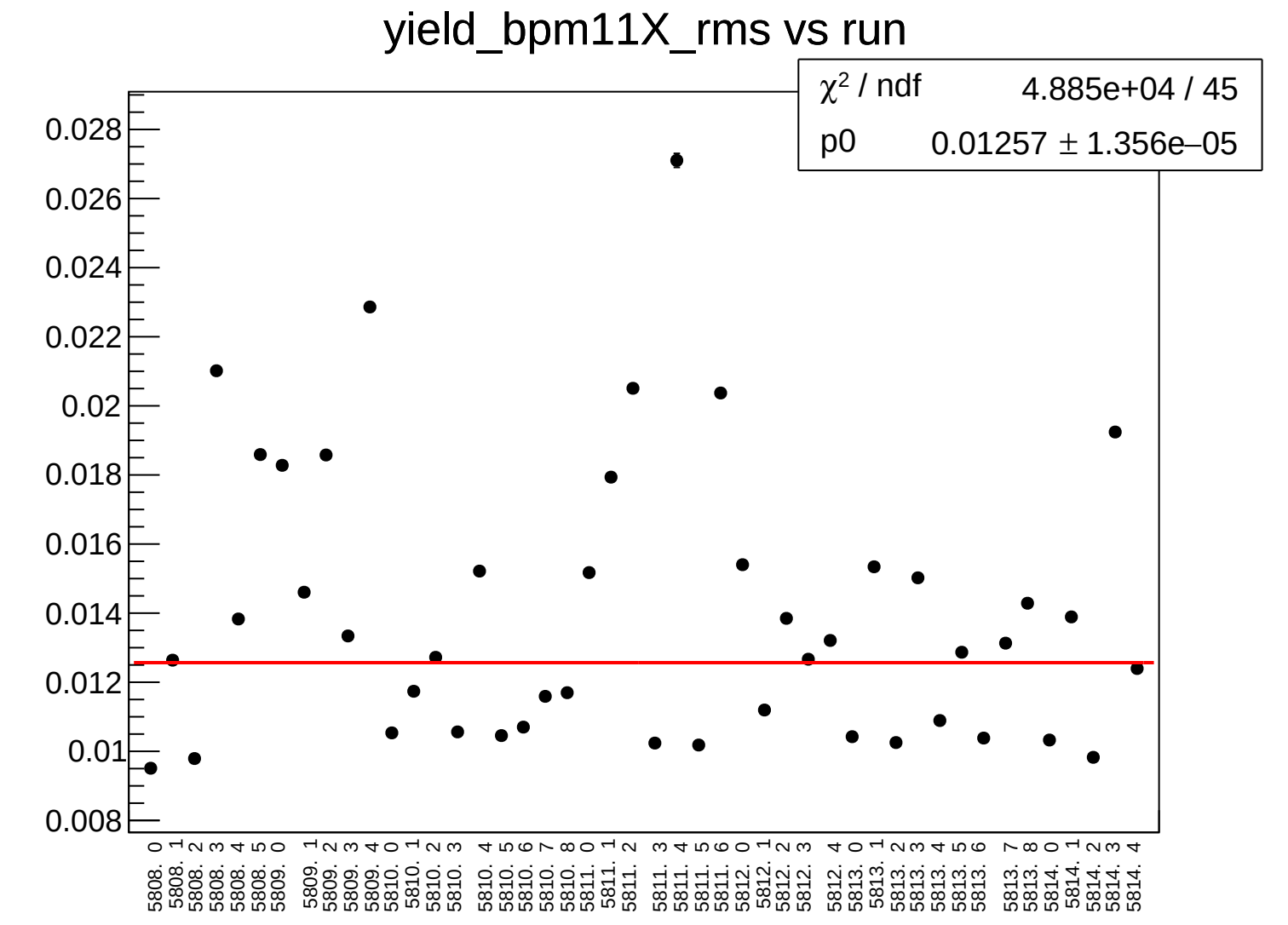

yield_bpm1Y_mean vs run
χ² / ndf 9.014e+07 / 45
p0 −0.7803 ± 0.0001321
0
−1
−2
−3
−4
−5
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −18.17
Std Dev 39.31
2000
1000
0
−1000
−2000

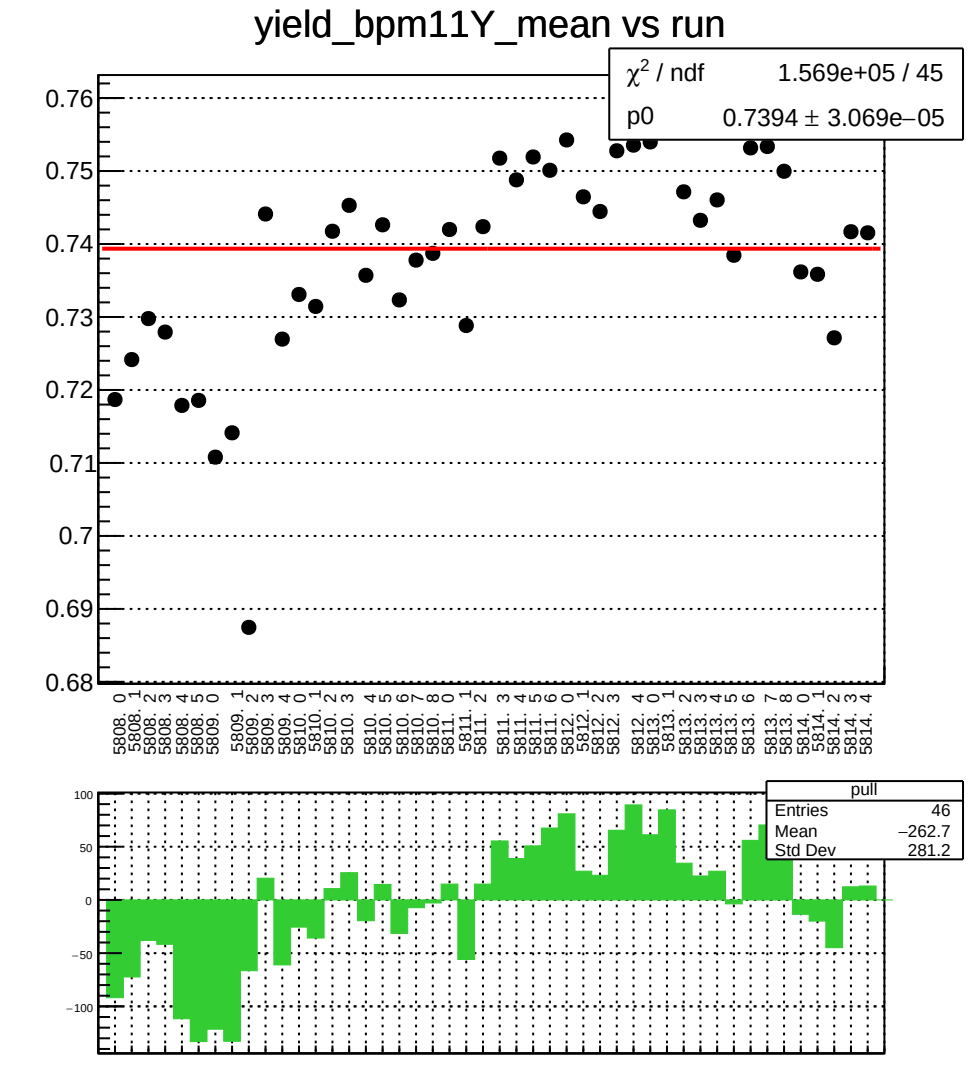

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

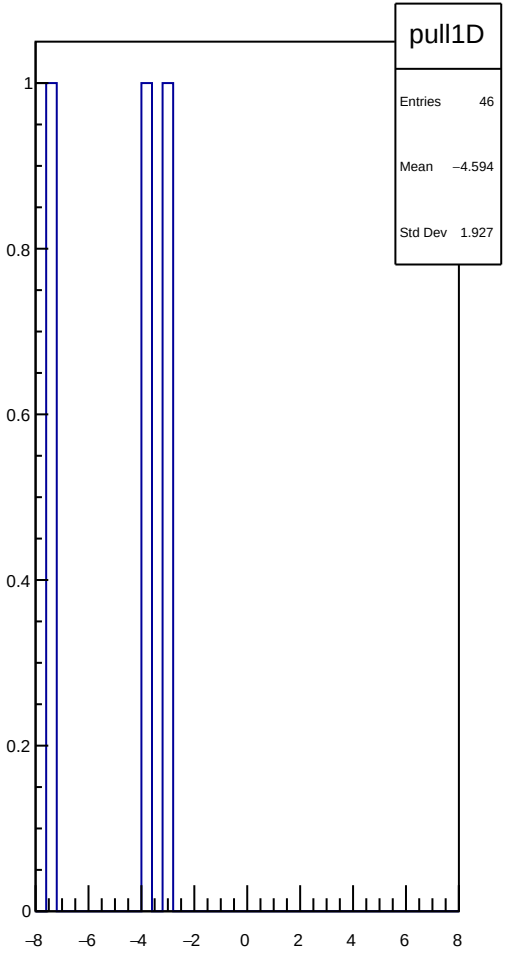

yield_bpm1Y_rms vs run
χ² / ndf 1.703e+05 / 45
p0 0.0802 ± 9.342e−05
0.25
0.2
0.15
0.1
0.05
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

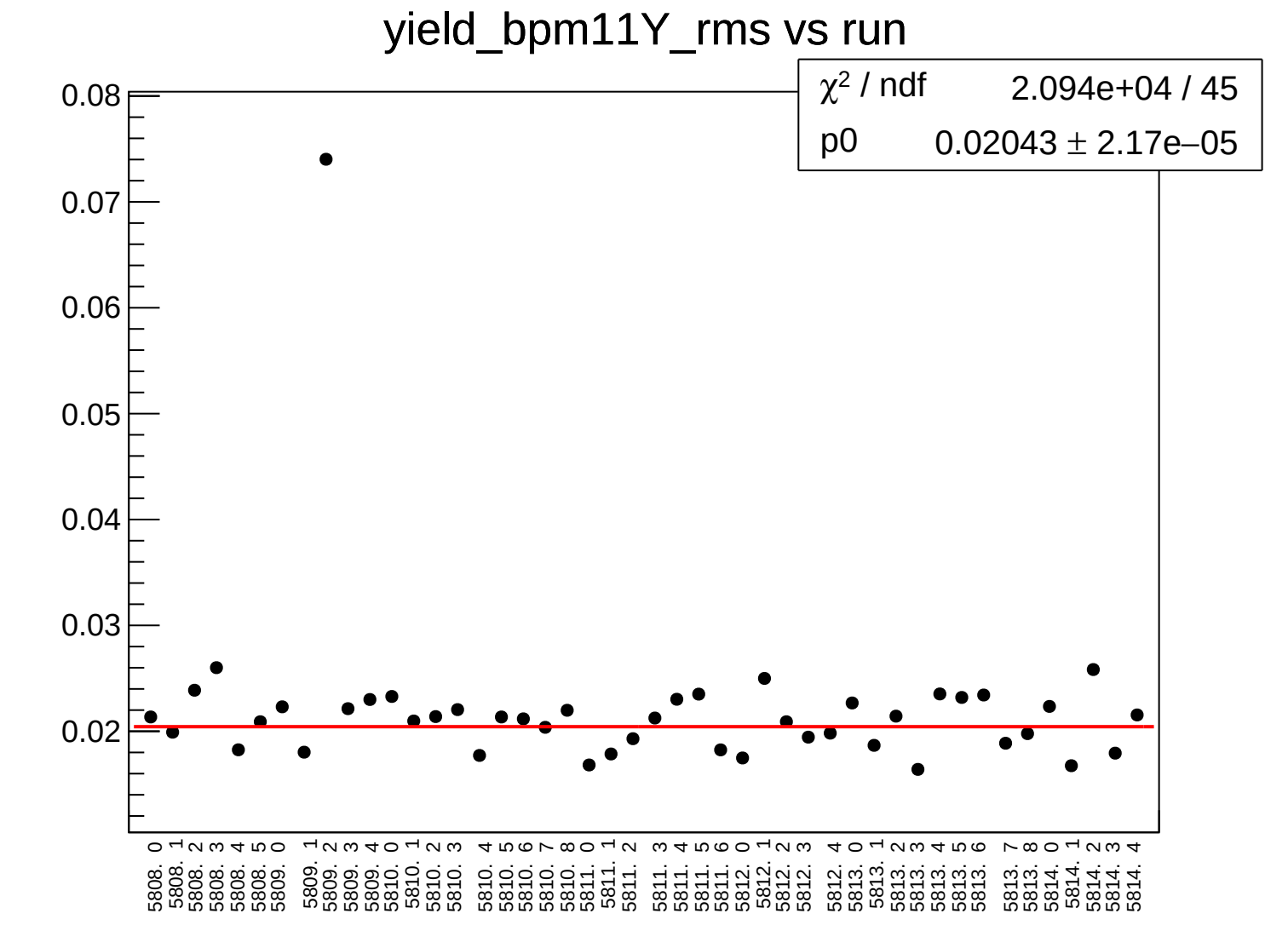

yield_bpm11X_mean vs run
χ² / ndf 2.347e+04 / 45
p0 0.9466 ± 1.918e−05
0.96
0.955
0.95
0.945
0.94
0.935
0.93
pull
Entries 46
Mean −15.69
Std Dev 45.12
60
40
20
0
−20
−40
−60

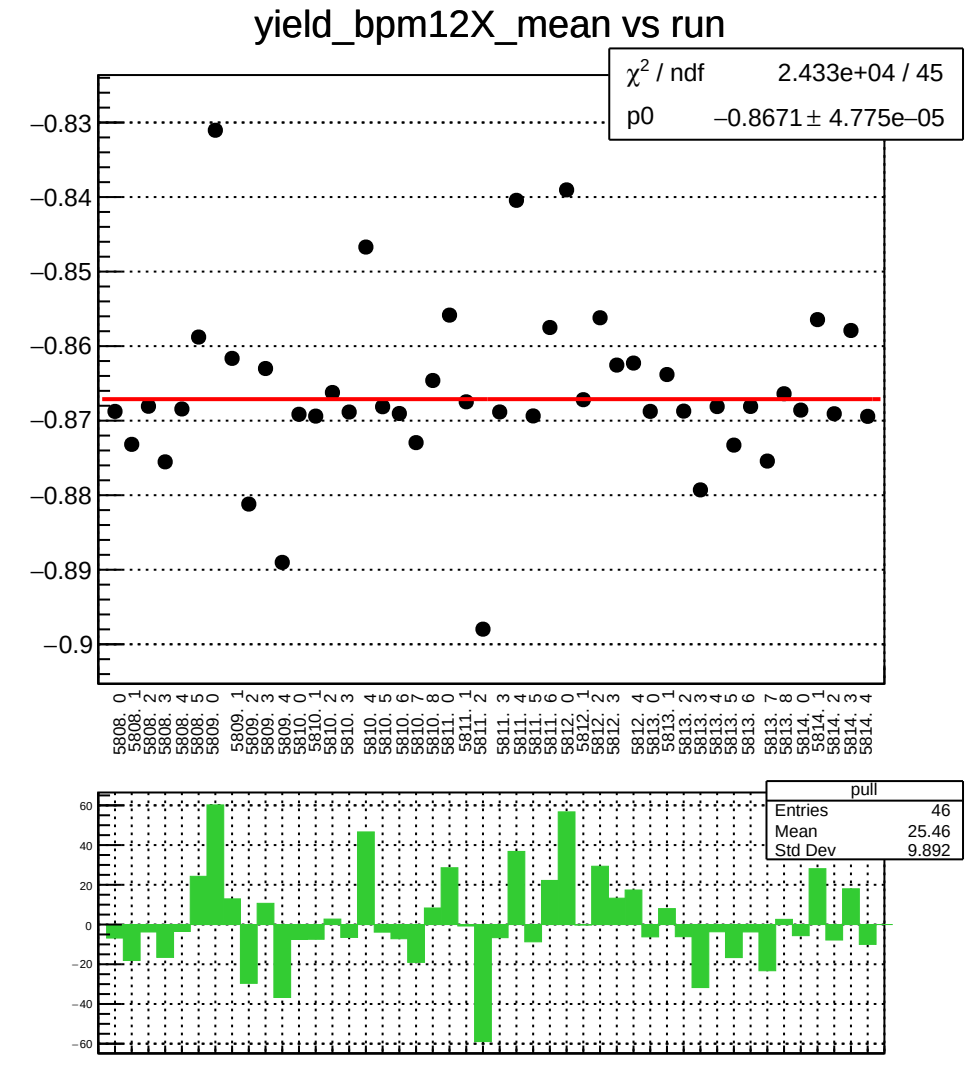

pull1D
Entries 46
Mean −1.132
Std Dev 4.564
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

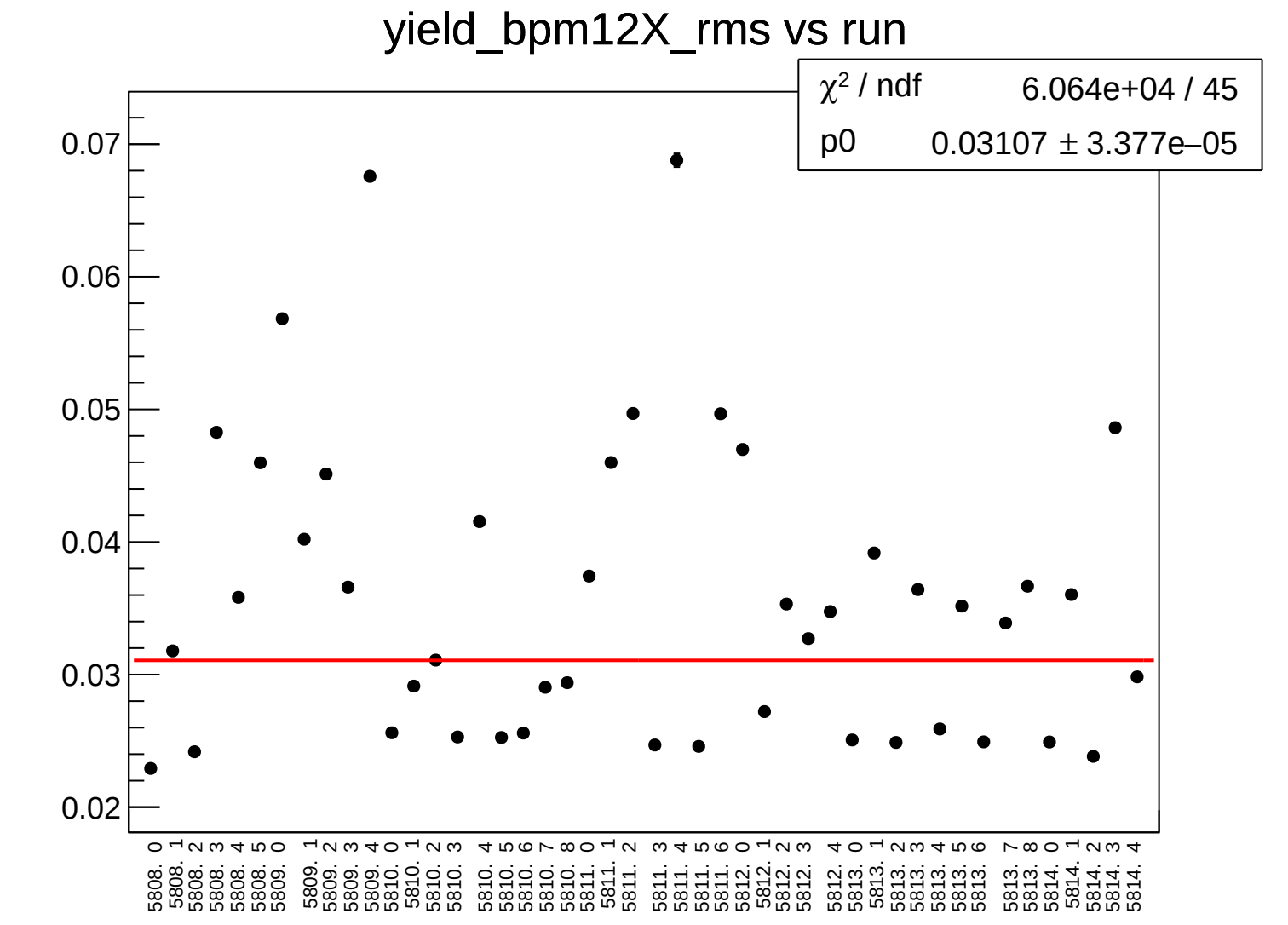

yield_bpm11X_rms vs run
χ² / ndf 4.885e+04 / 45
p0 0.01257 ± 1.356e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

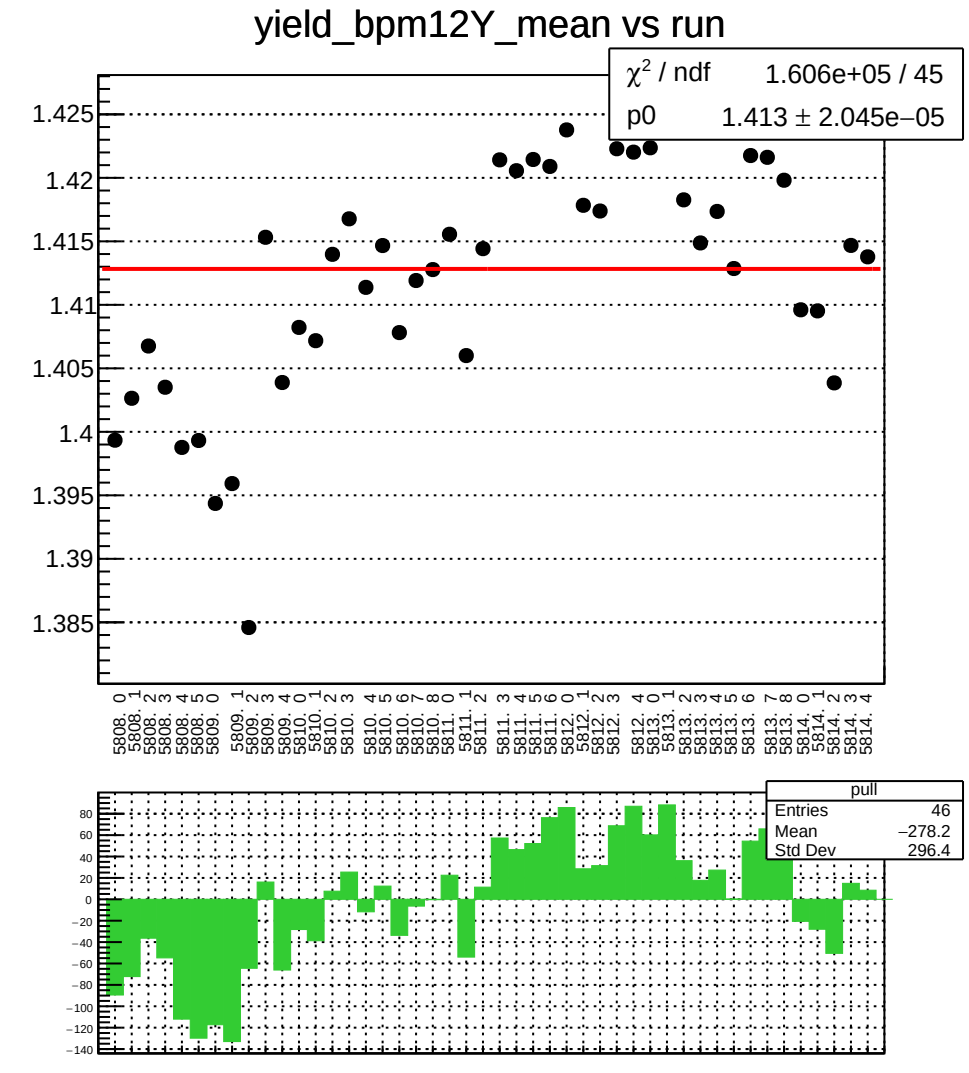

yield_bpm11Y_mean vs run
χ² / ndf 1.569e+05 / 45
p0 0.7394 ± 3.069e−05
0.76
0.75
0.74
0.73
0.72
0.71
0.7
0.69
0.68
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −262.7
Std Dev 281.2
100
50
0
−50
−100

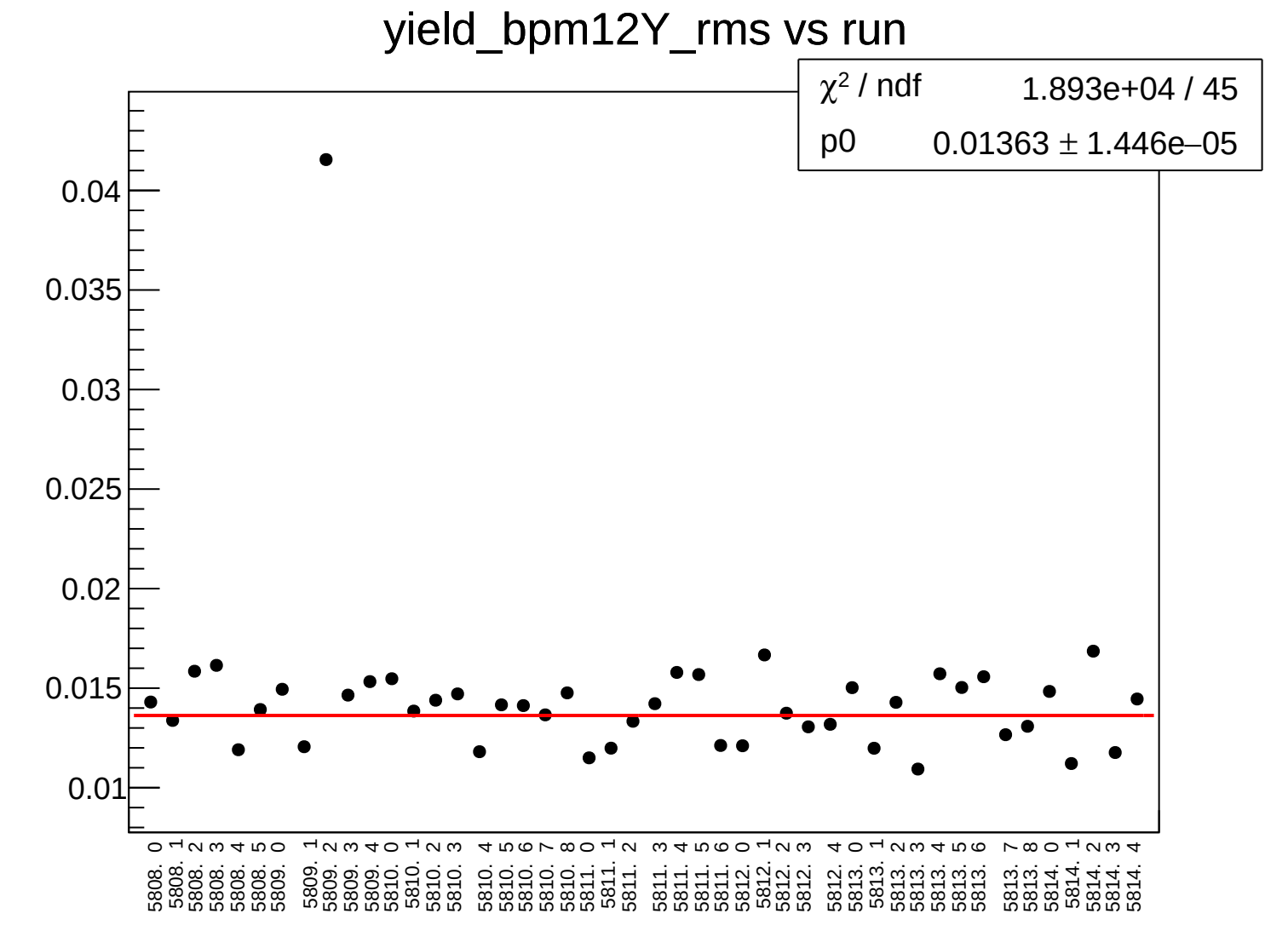

pull1D
Entries 46
Mean −4.594
Std Dev 1.927
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

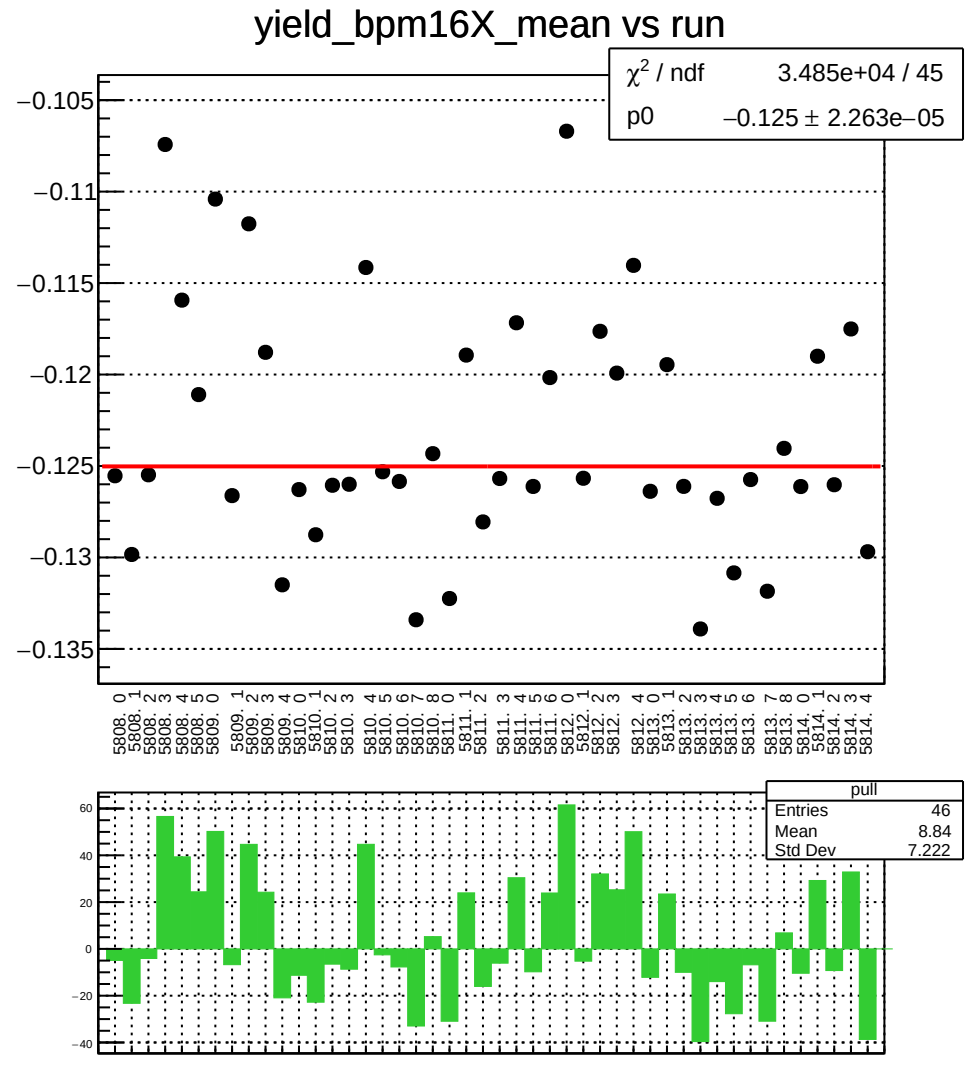

yield_bpm11Y_rms vs run
χ² / ndf 2.094e+04 / 45
p0 0.02043 ± 2.17e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

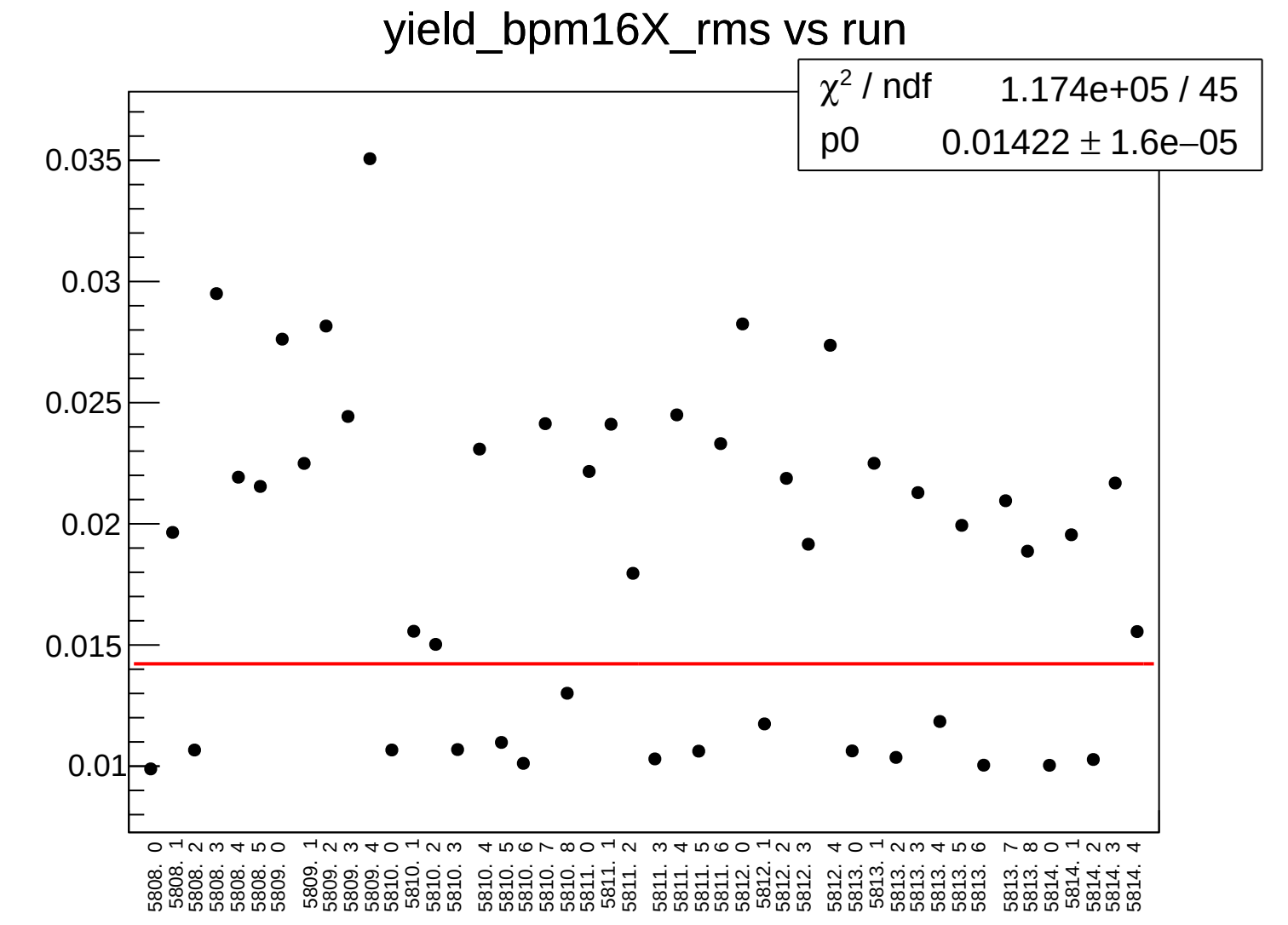

yield_bpm12X_mean vs run
χ² / ndf 2.433e+04 / 45
p0 −0.8671 ± 4.775e−05
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88
−0.89
−0.9
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 5
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 25.46
Std Dev 9.892
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −4.299
Std Dev 3.188
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

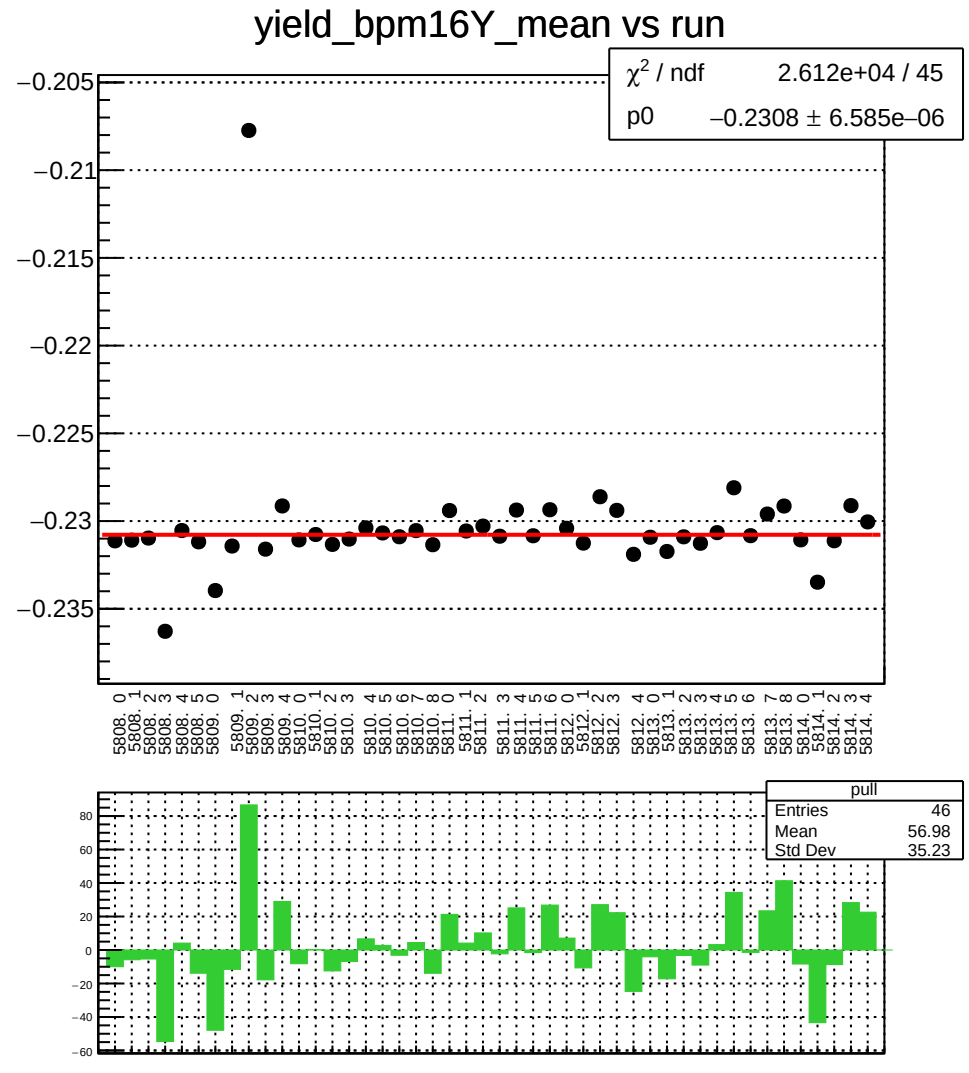

yield_bpm12X_rms vs run
χ² / ndf 6.064e+04 / 45
p0 0.03107 ± 3.377e–05
0.07
0.06
0.05
0.04
0.03
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

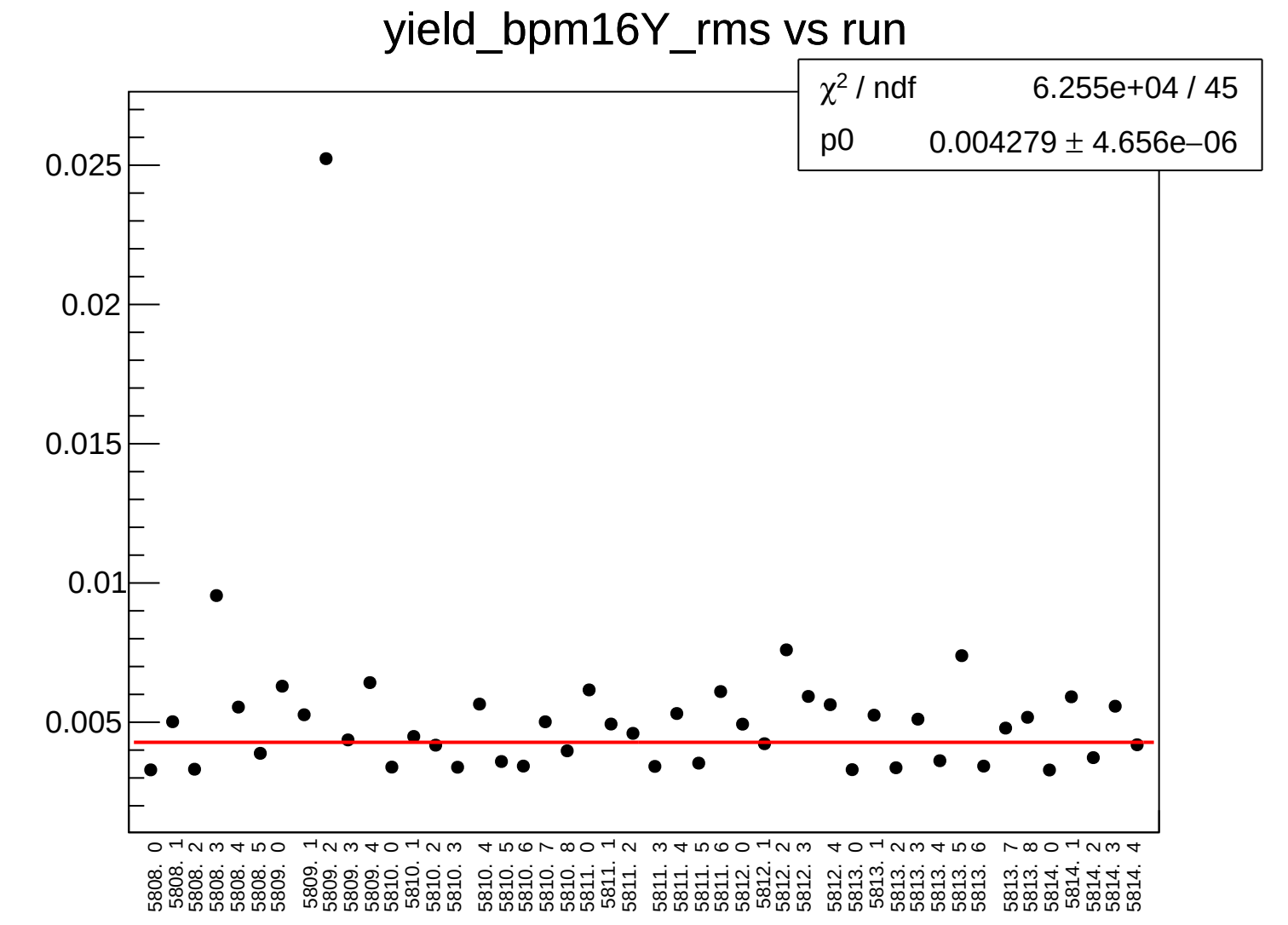

yield_bpm12Y_mean vs run
χ² / ndf 1.606e+05 / 45
p0 1.413 ± 2.045e−05
1.425
1.42
1.415
1.41
1.405
1.4
1.395
1.39
1.385
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −278.2
Std Dev 296.4
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 46
Mean 0.2714
Std Dev 4.935
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

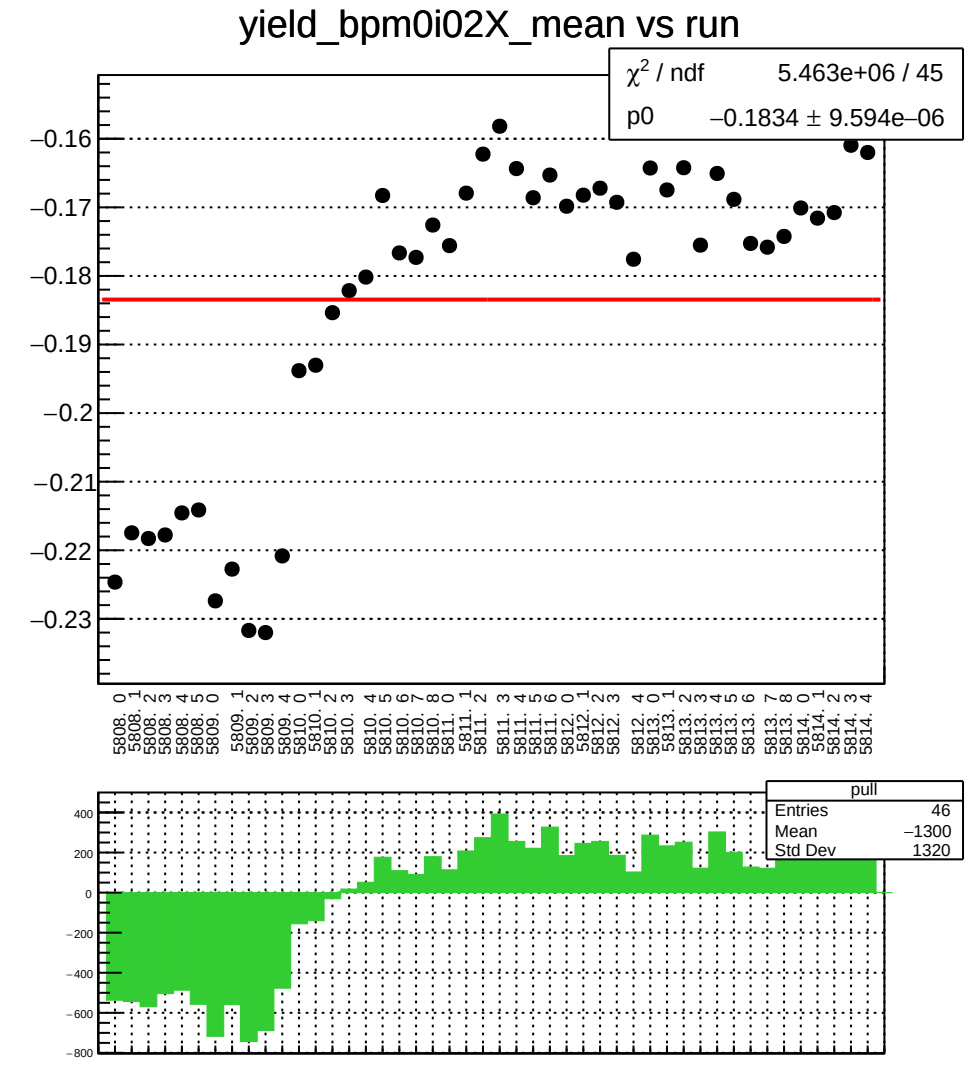

yield_bpm12Y_rms vs run
χ² / ndf 1.893e+04 / 45
p0 0.01363 ± 1.446e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

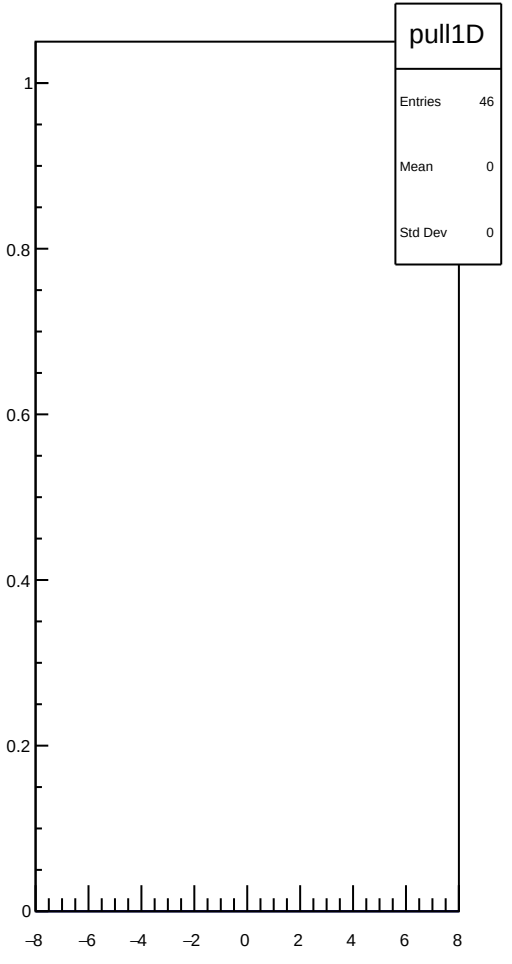

yield_bpm16X_mean vs run
χ² / ndf 3.485e+04 / 45
p0 −0.125 ± 2.263e−05
−0.105
−0.11
−0.115
−0.12
−0.125
−0.13
−0.135
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 5
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 8.84
Std Dev 7.222
60
40
20
0
−20
−40
pull1D
Entries 46
Mean −3.5
Std Dev 4.71
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

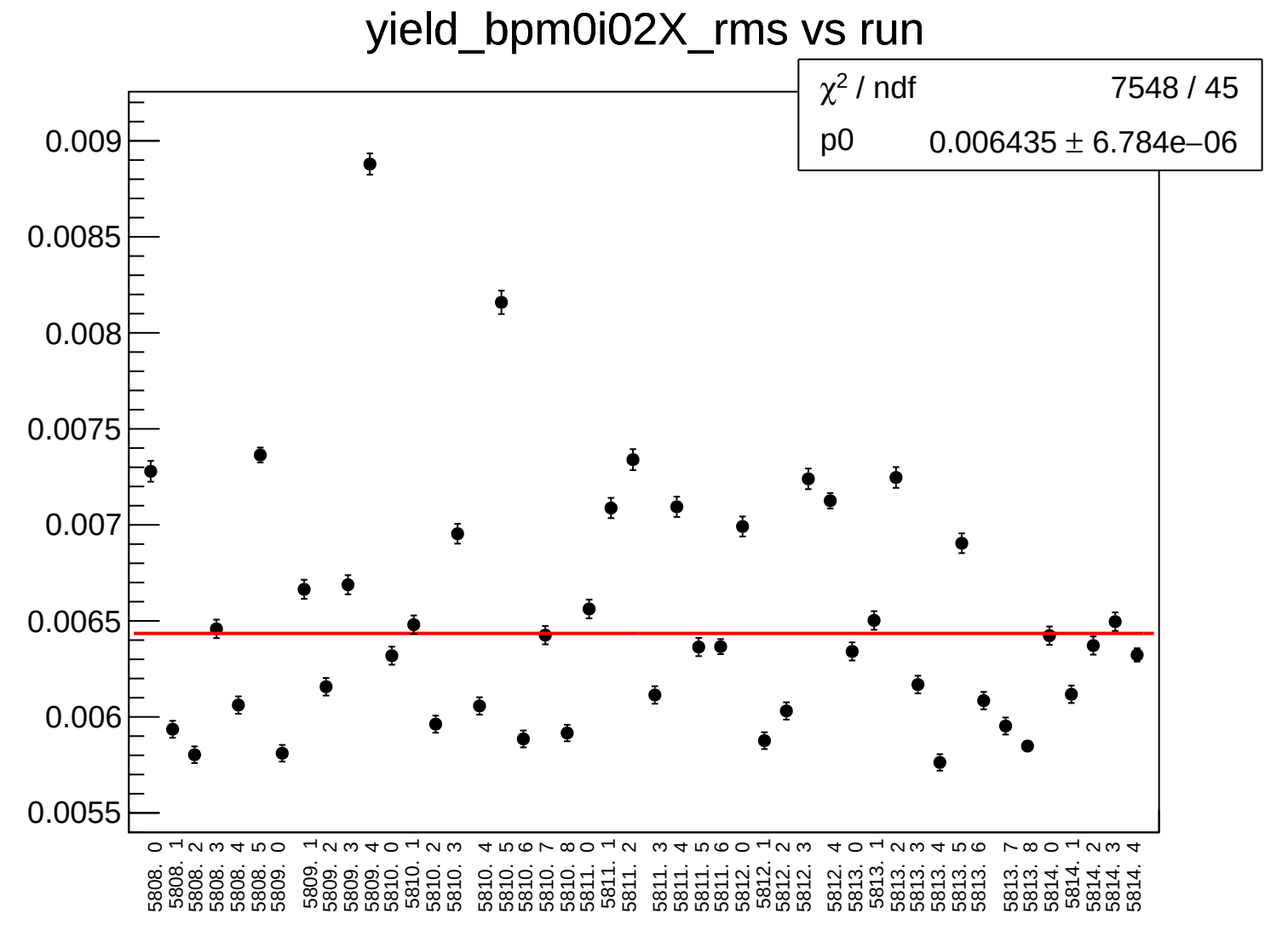

yield_bpm16X_rms vs run
χ² / ndf 1.174e+05 / 45
p0 0.01422 ± 1.6e−05
0.035
0.03
0.025
0.02
0.015
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

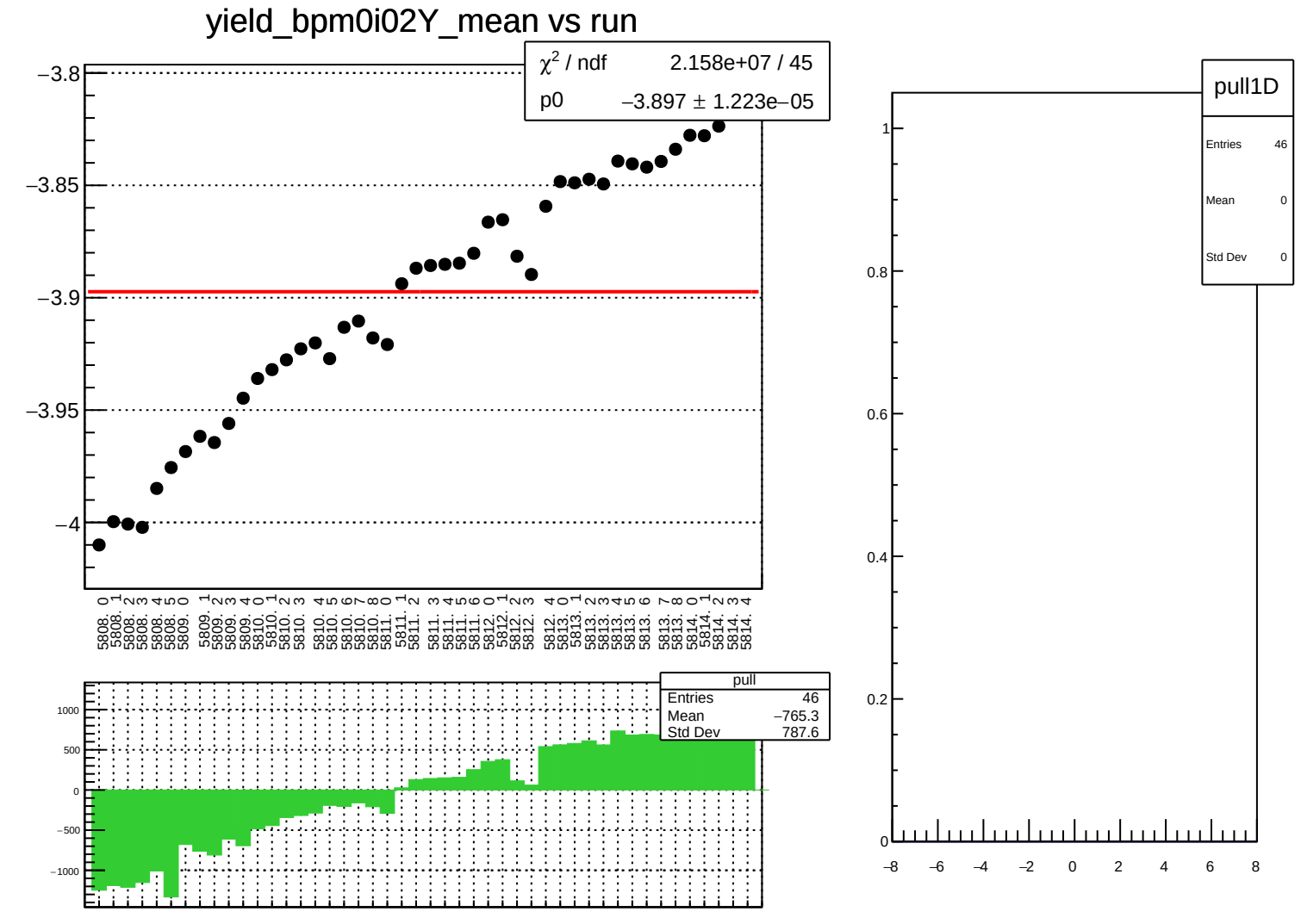

yield_bpm16Y_mean vs run
χ² / ndf 2.612e+04 / 45
p0 −0.2308 ± 6.585e−06
−0.205
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 56.98
Std Dev 35.23
80
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −0.05331
Std Dev 4.355
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

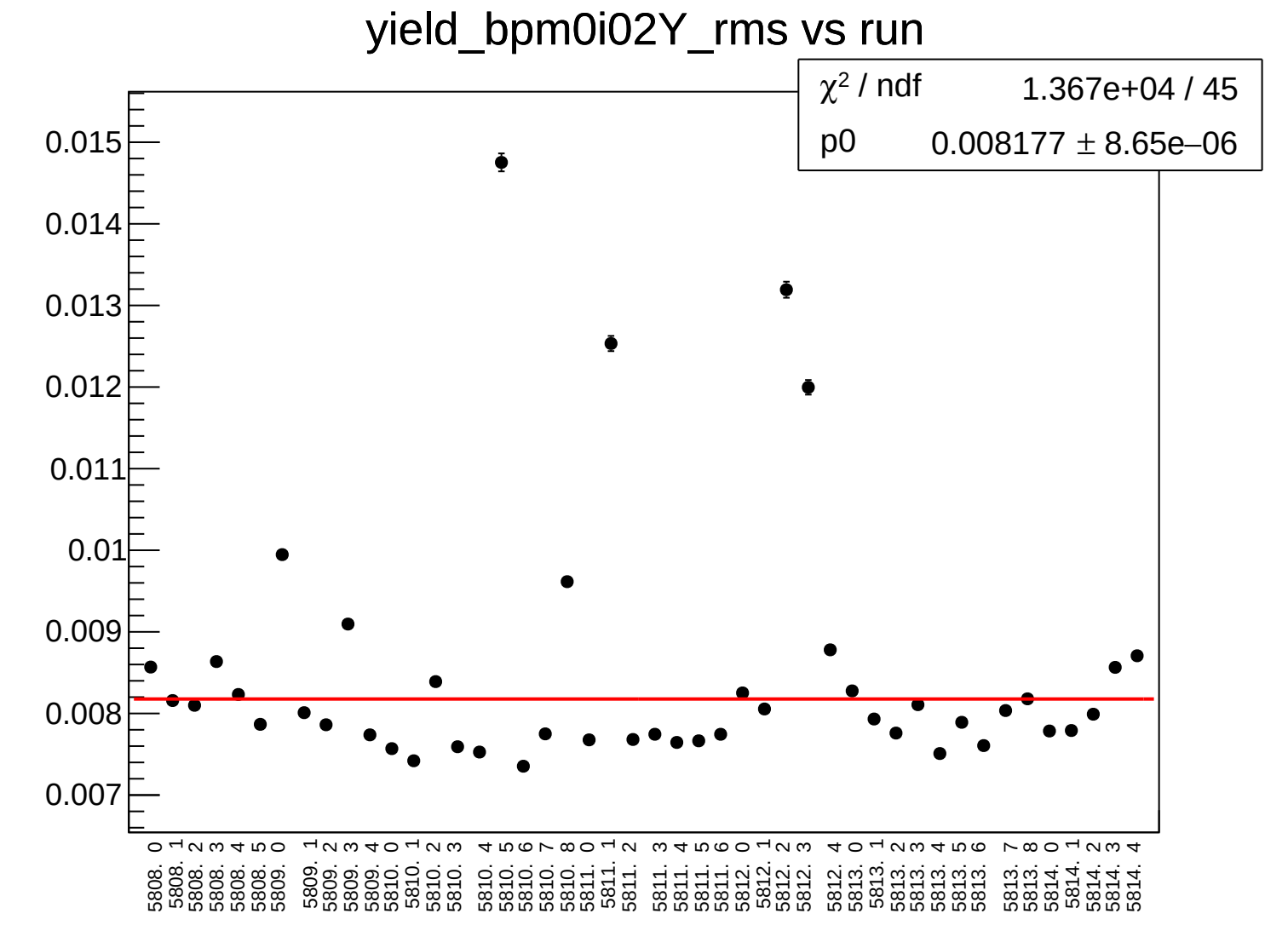

yield_bpm16Y_rms vs run
χ² / ndf 6.255e+04 / 45
p0 0.004279 ± 4.656e−06
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

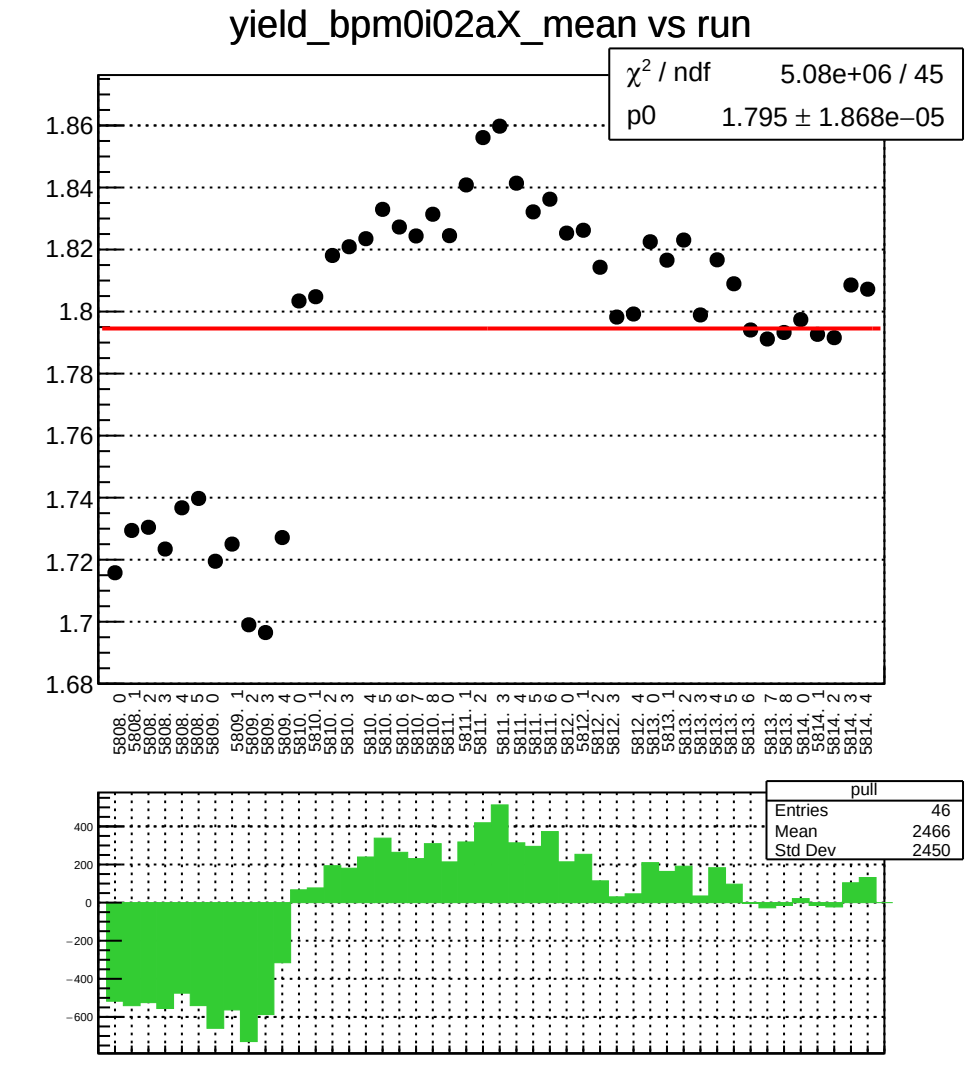

yield_bpm0i02X_mean vs run
χ² / ndf 5.463e+06 / 45
p0 −0.1834 ± 9.594e−06
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1300
Std Dev 1320
400
200
0
−200
−400
−600
−800

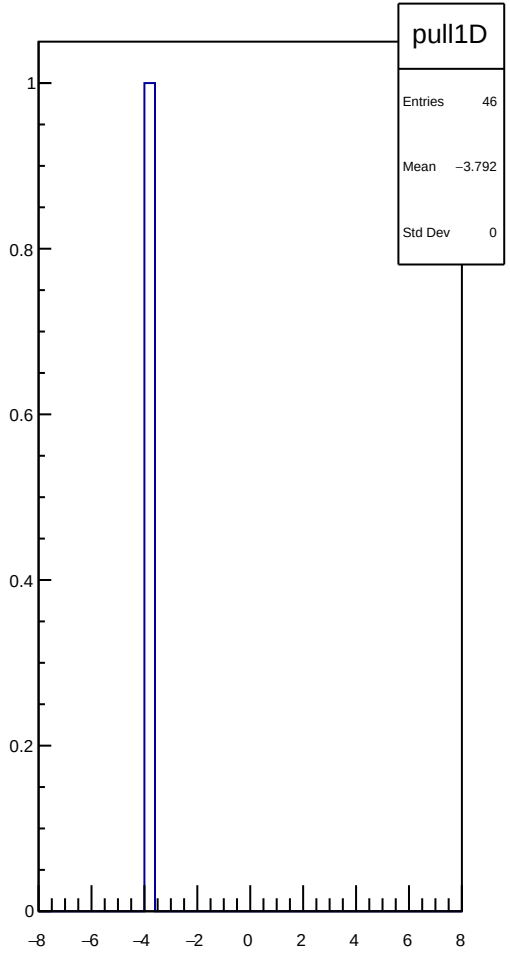

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

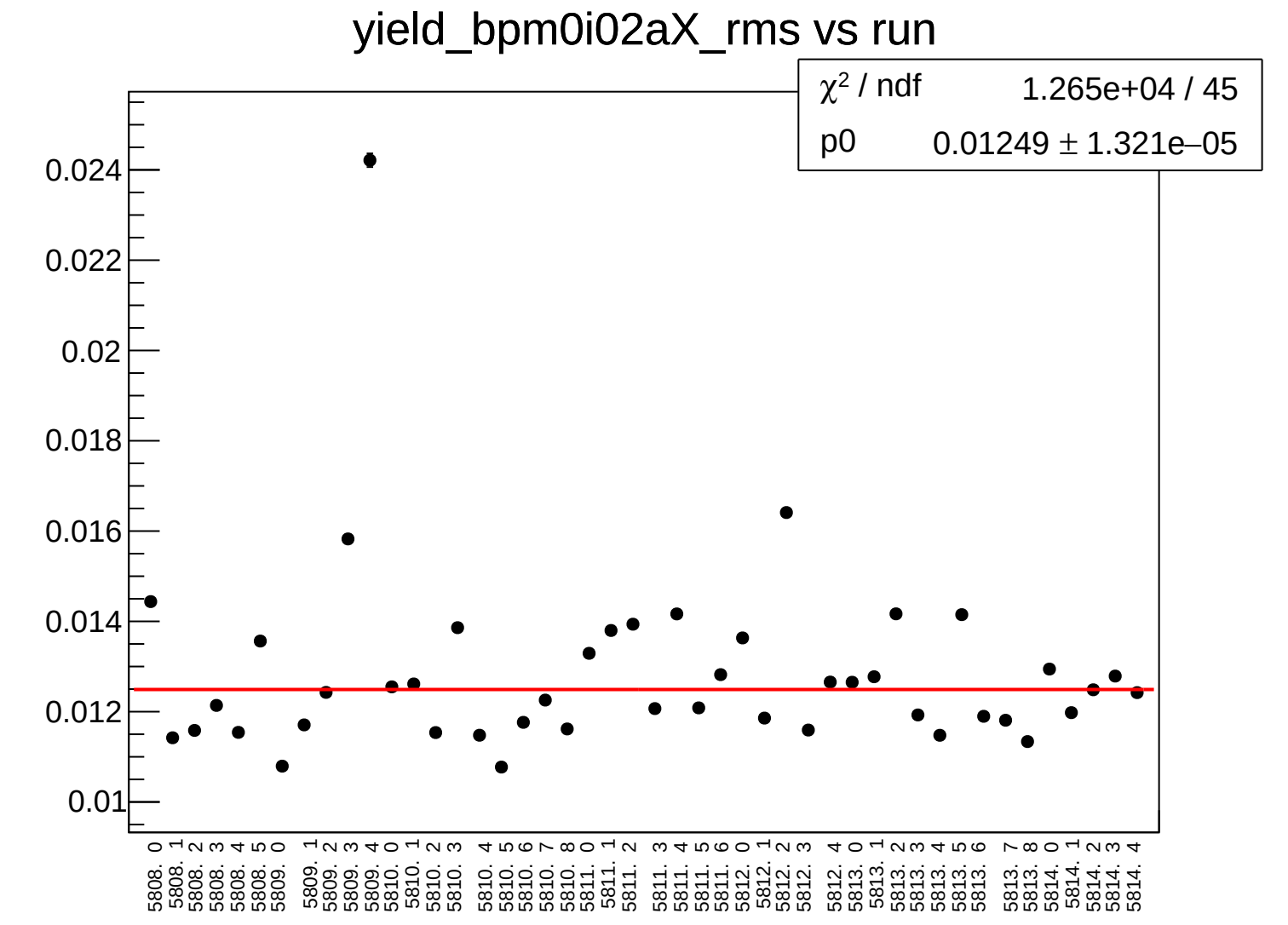

yield_bpm0i02X_rms vs run
χ² / ndf 7548 / 45
p0 0.006435 ± 6.784e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm0i02Y_mean vs run
χ² / ndf 2.158e+07 / 45
p0 −3.897 ± 1.223e−05
−3.8
−3.85
−3.9
−3.95
−4
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −765.3
Std Dev 787.6
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02Y_rms vs run
χ² / ndf 1.367e+04 / 45
p0 0.008177 ± 8.65e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm0i02aX_mean vs run
χ² / ndf 5.08e+06 / 45
p0 1.795 ± 1.868e−05
pull
Entries 46
Mean 2466
Std Dev 2450


pull1D
Entries 46
Mean −3.792
Std Dev 0


yield_bpm0i02aX_rms vs run
χ² / ndf 1.265e+04 / 45
p0 0.01249 ± 1.321e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
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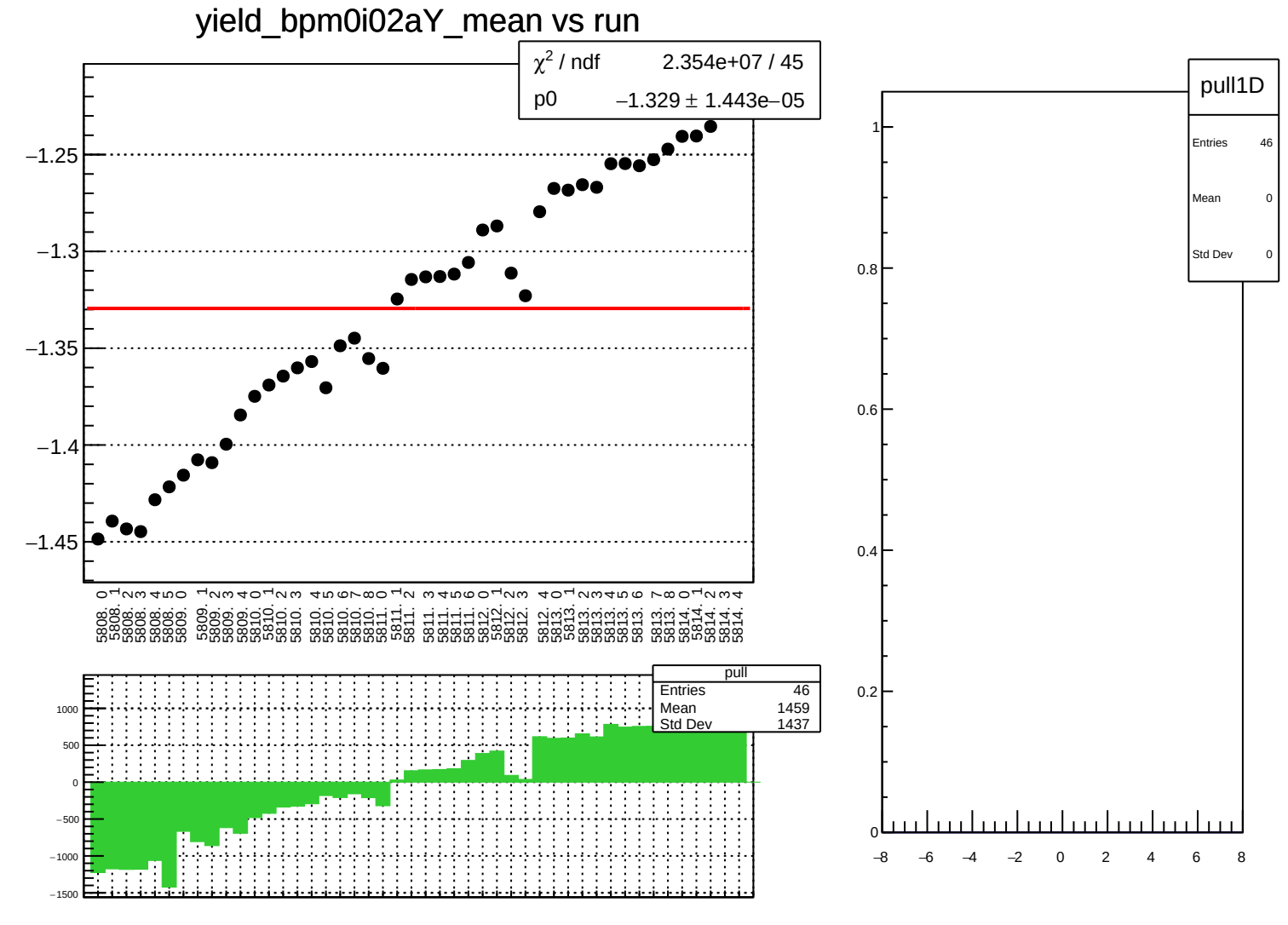
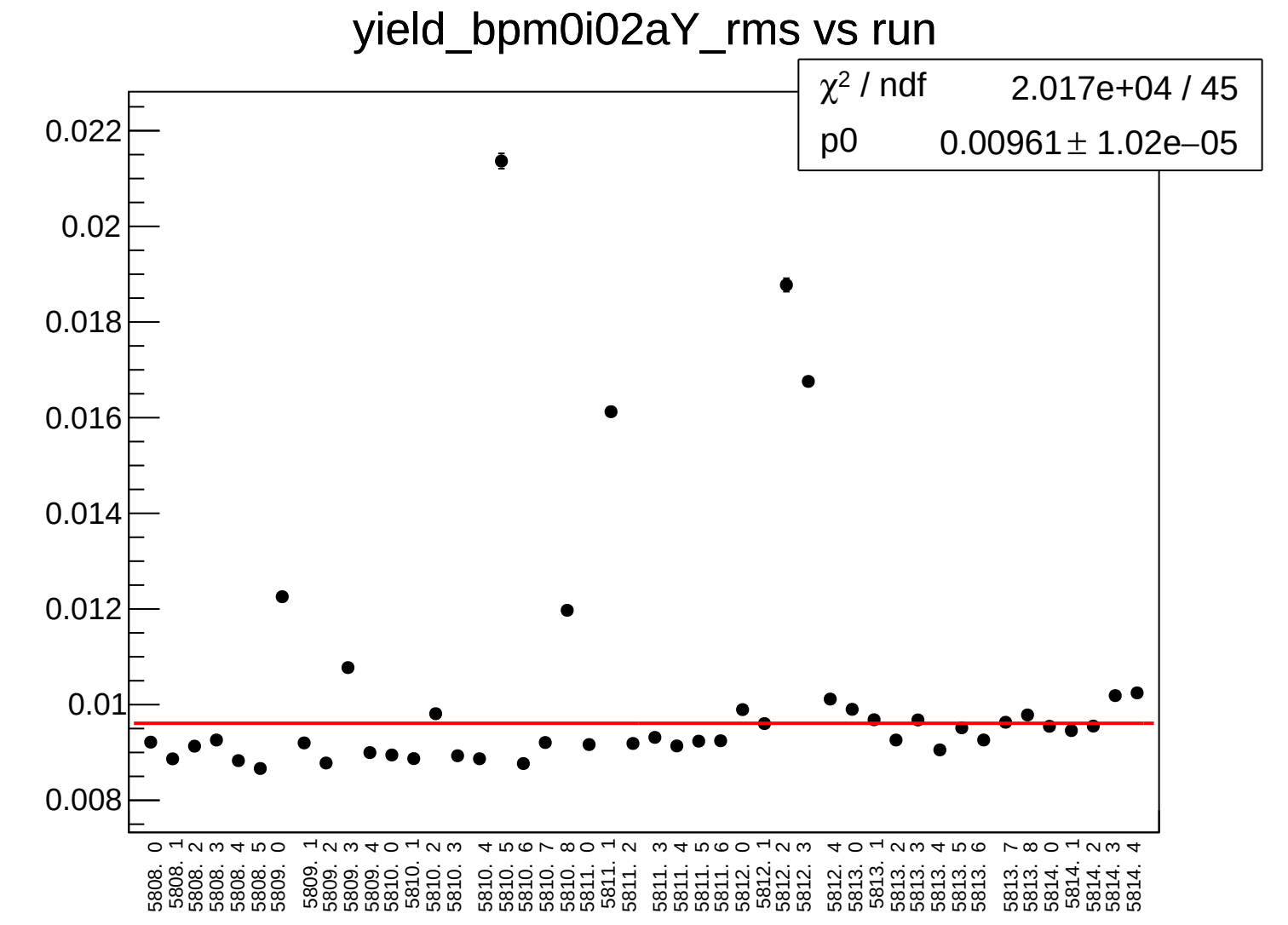
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm0i02aY_mean vs run
χ² / ndf 2.354e+07 / 45
p0 −1.329 ± 1.443e−05
−1.25
−1.3
−1.35
−1.4
−1.45
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 1459
Std Dev 1437
1000
500
0
−500
−1000
−1500
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02aY_rms vs run
χ² / ndf 2.017e+04 / 45
p0 0.00961 ± 1.02e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
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5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
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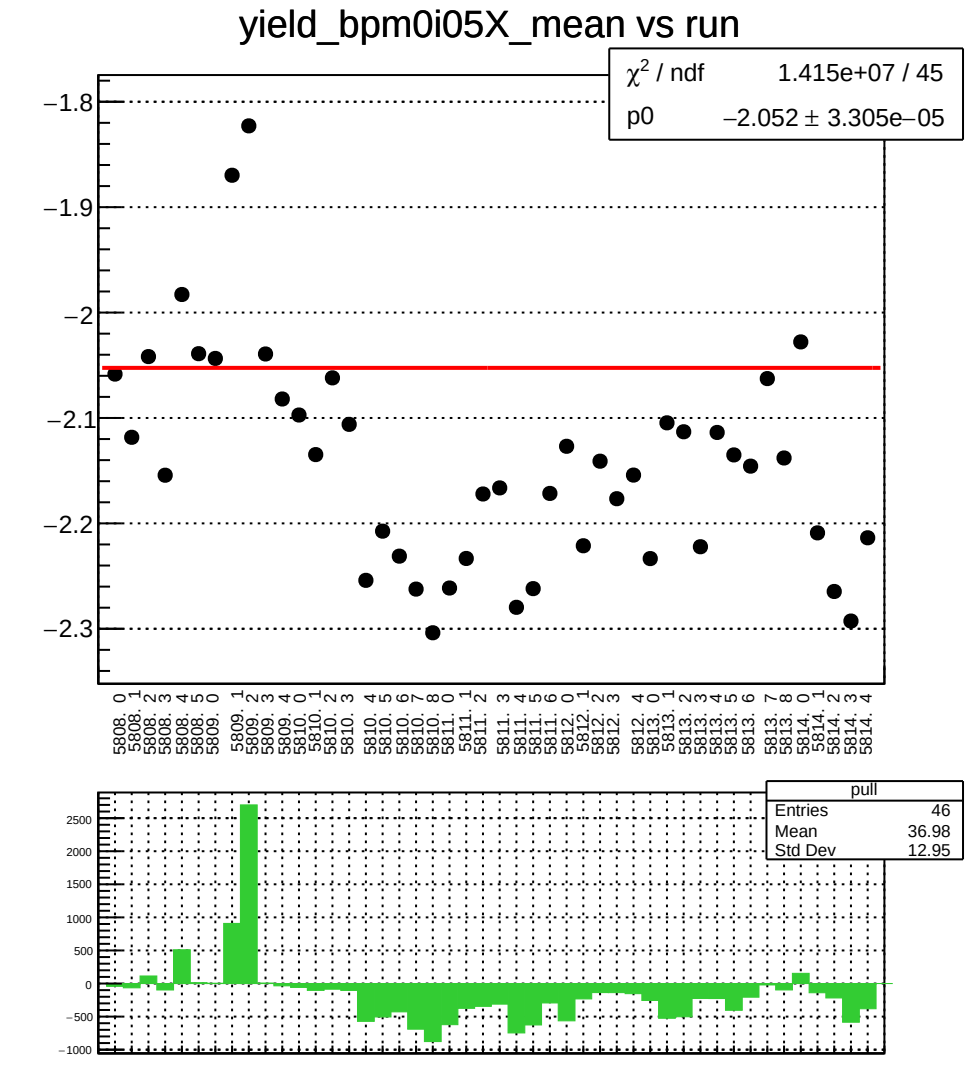
5814. 2
5814. 3
5814. 4


yield_bpm0i05X_mean vs run
χ² / ndf 1.415e+07 / 45
p0 −2.052 ± 3.305e−05
−1.8
−1.9
−2
−2.1
−2.2
−2.3
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
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5811. 2
5811. 3
5811. 4
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5811. 6
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5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
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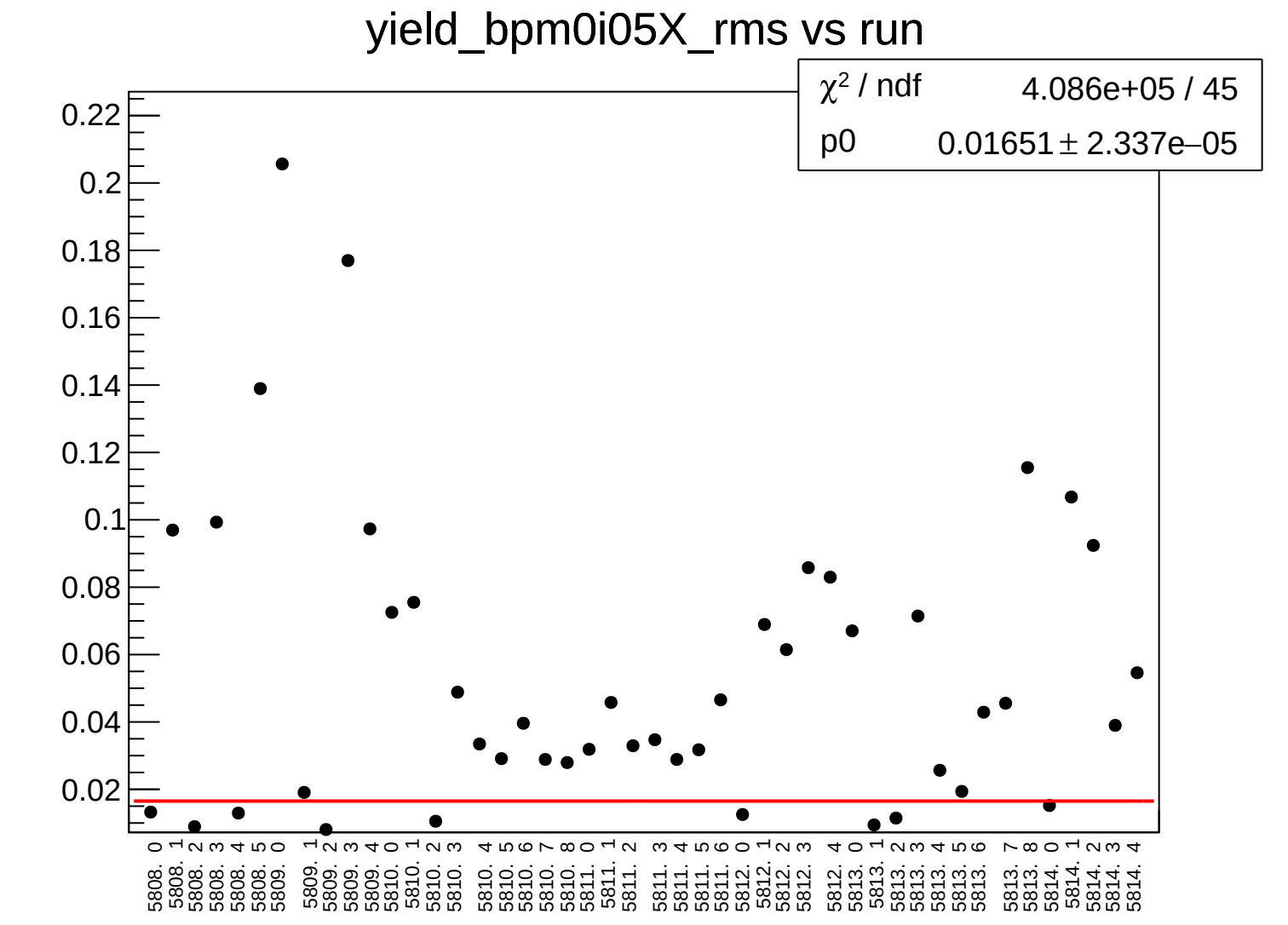
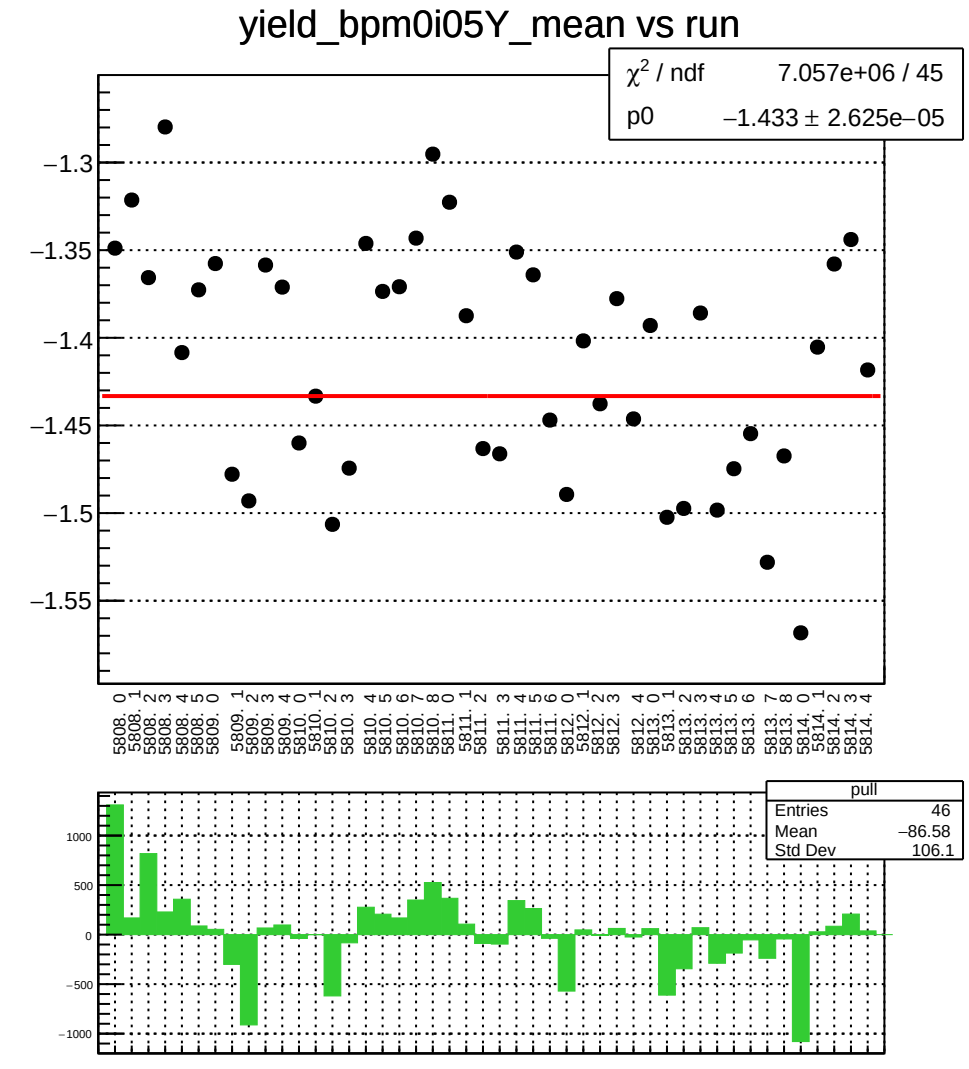
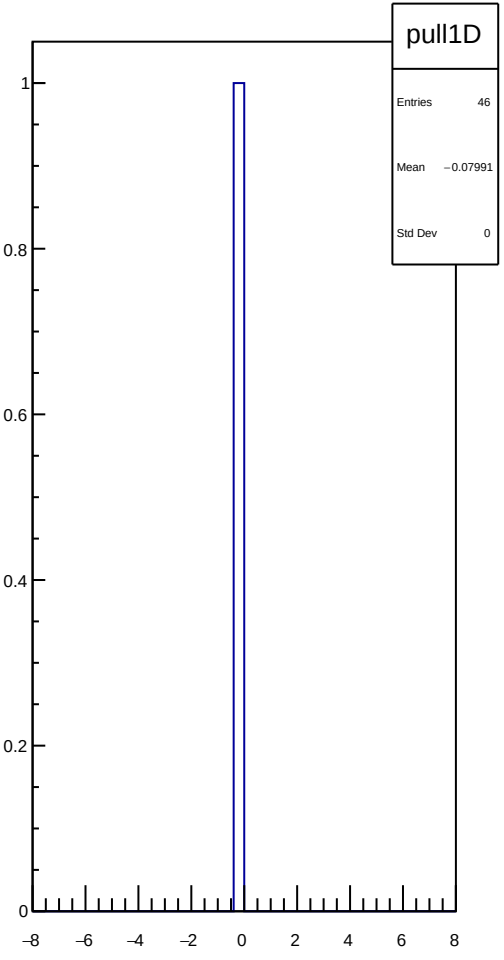
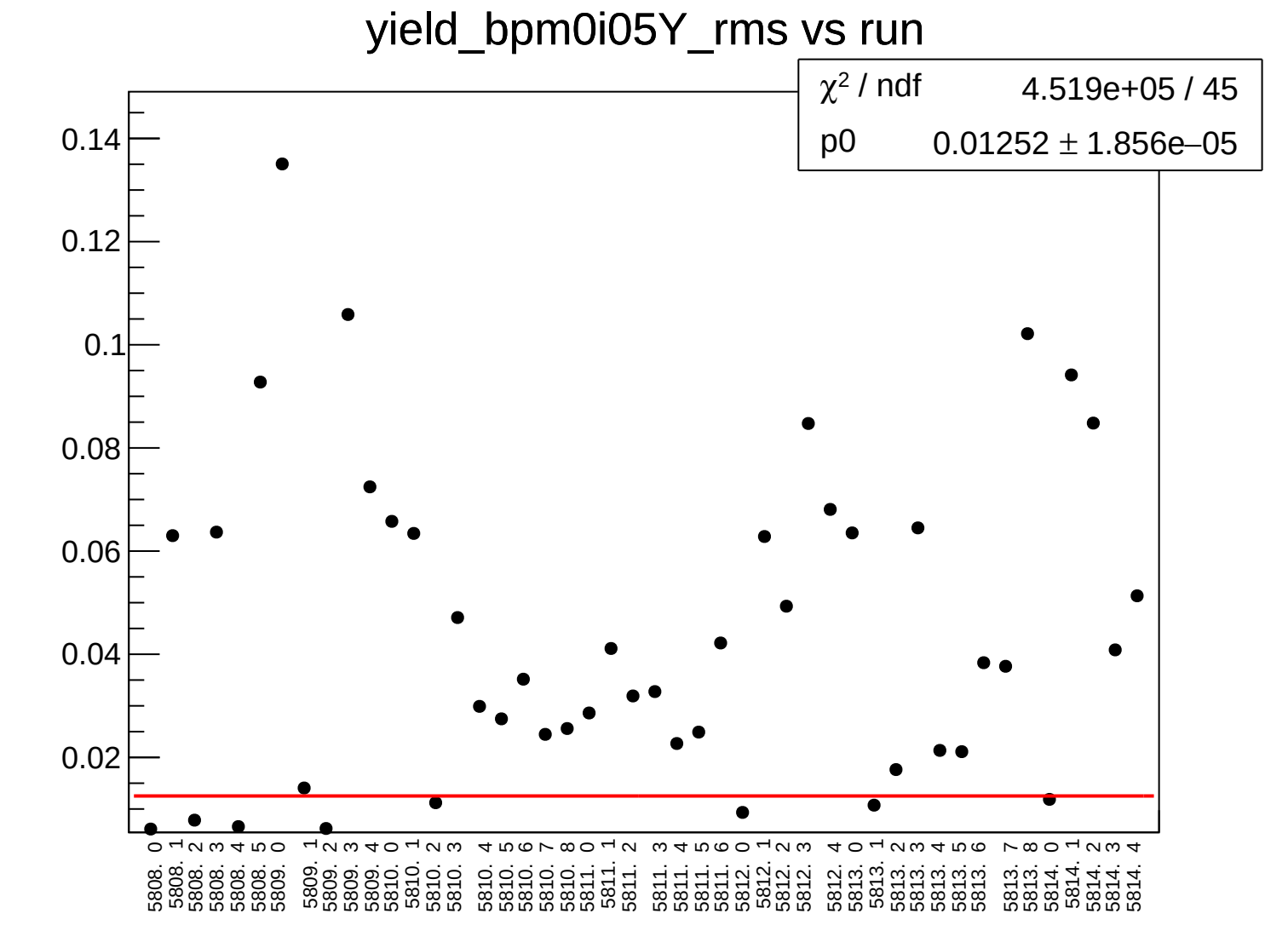
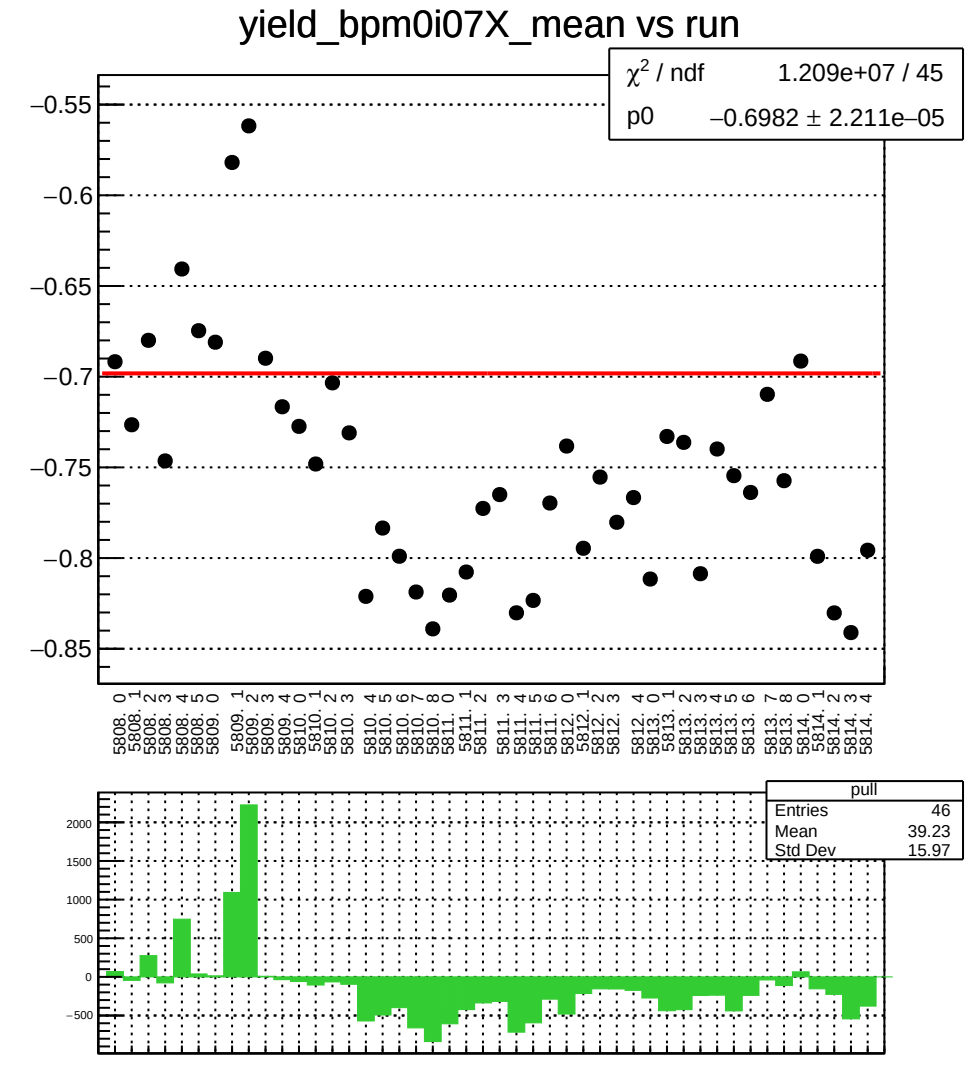
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 36.98
Std Dev 12.95
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 5.599
Std Dev 1.464
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

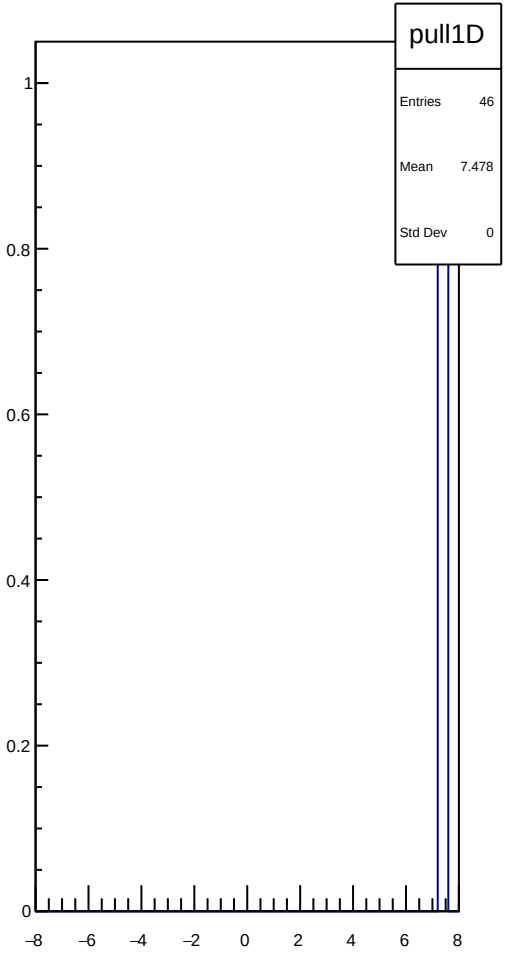

yield_bpm0i05X_rms vs run
χ² / ndf 4.086e+05 / 45
p0 0.01651 ± 2.337e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

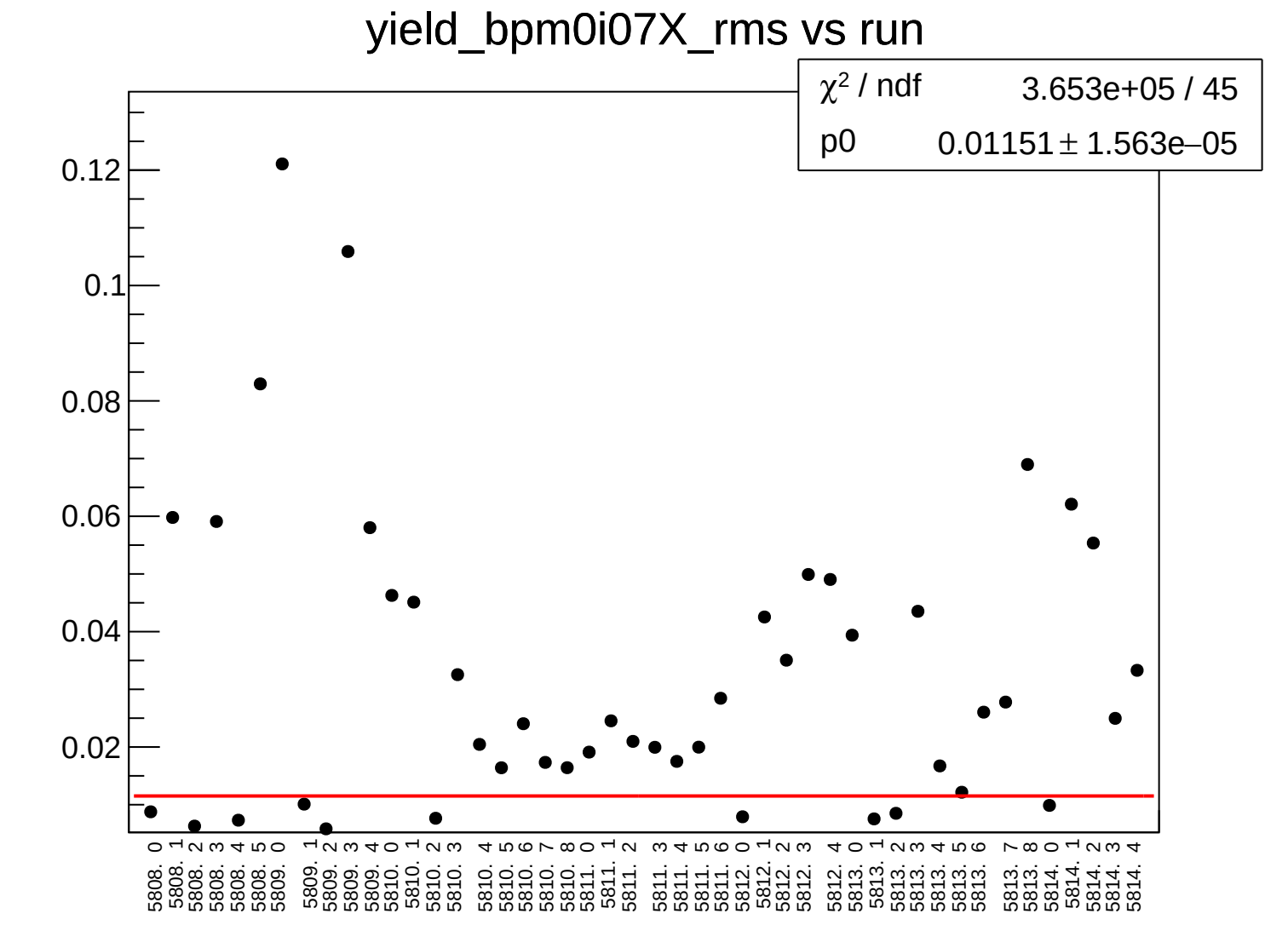

yield_bpm0i05Y_mean vs run
χ² / ndf 7.057e+06 / 45
p0 −1.433 ± 2.625e−05
−1.3
−1.35
−1.4
−1.45
−1.5
−1.55
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −86.58
Std Dev 106.1
1000
500
0
−500
−1000

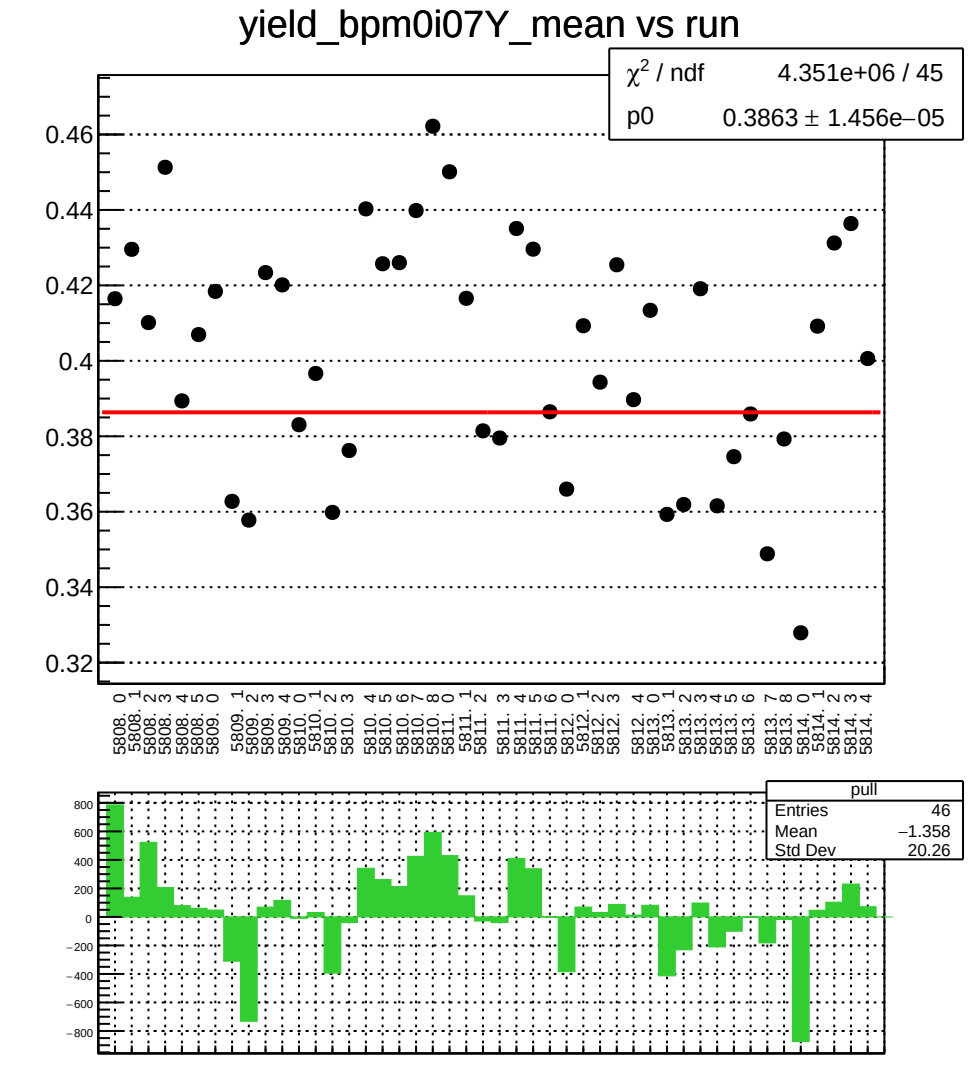

pull1D
Entries 46
Mean −0.07991
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

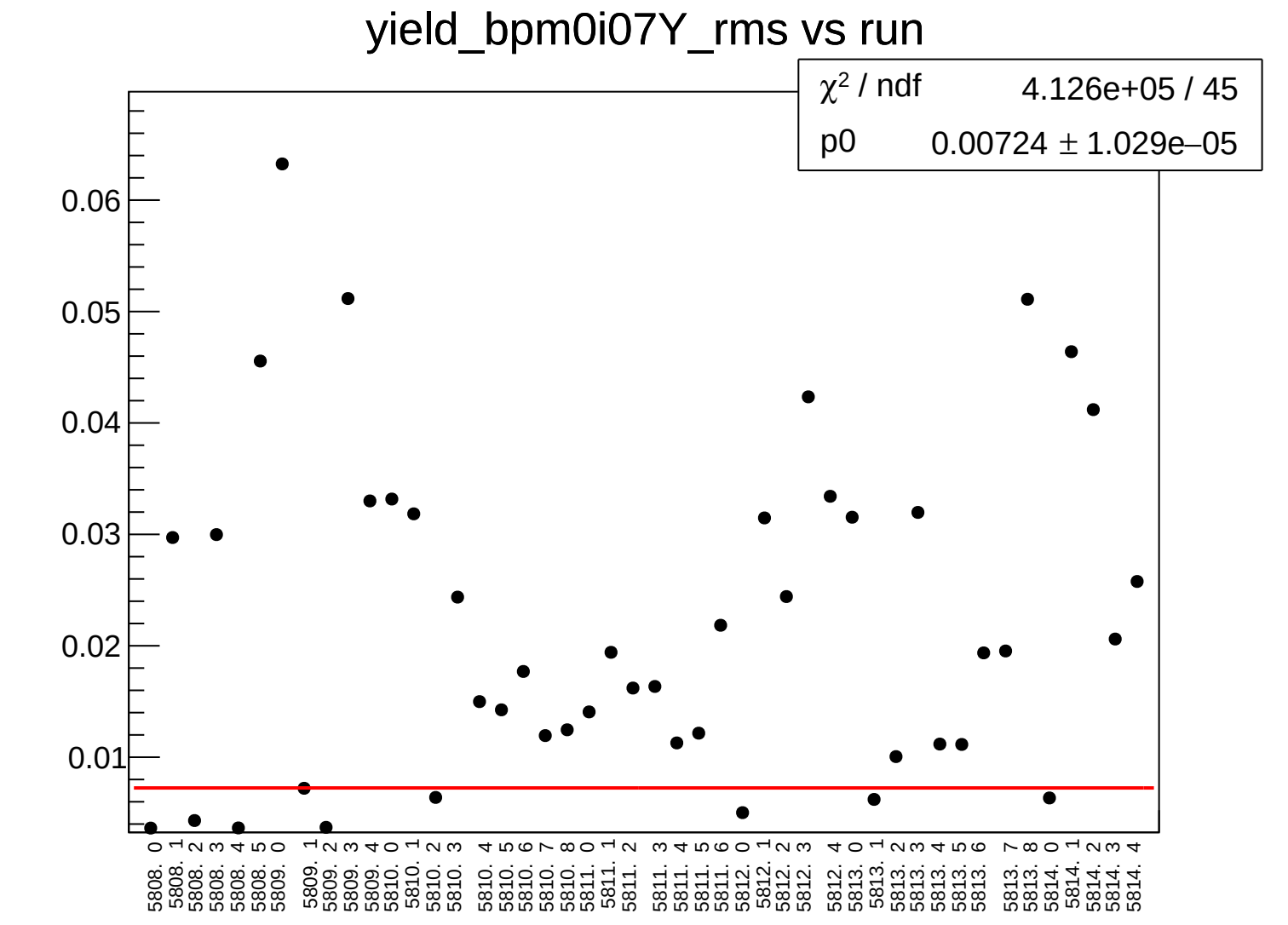

yield_bpm0i05Y_rms vs run
χ² / ndf 4.519e+05 / 45
p0 0.01252 ± 1.856e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

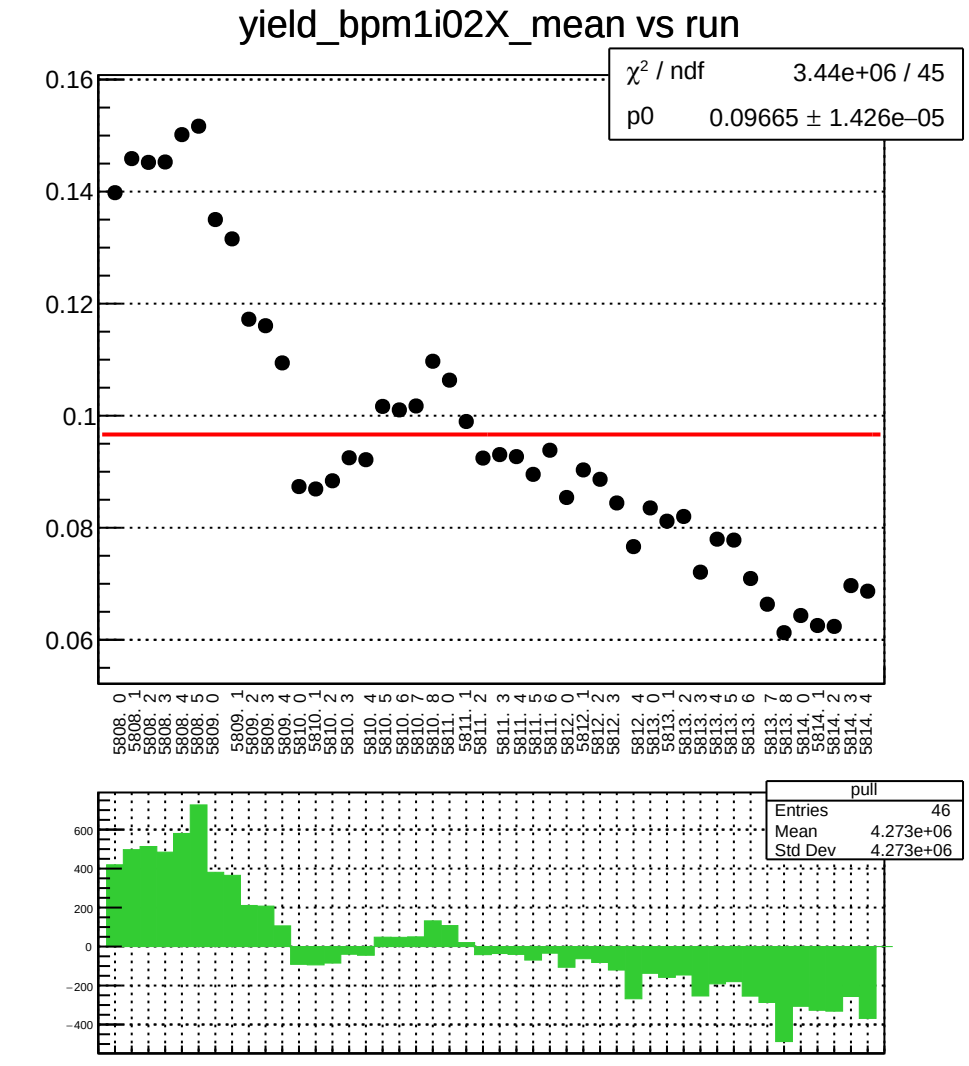

yield_bpm0i07X_mean vs run
χ² / ndf 1.209e+07 / 45
p0 −0.6982 ± 2.211e−05
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 39.23
Std Dev 15.97
2000
1500
1000
500
0
−500

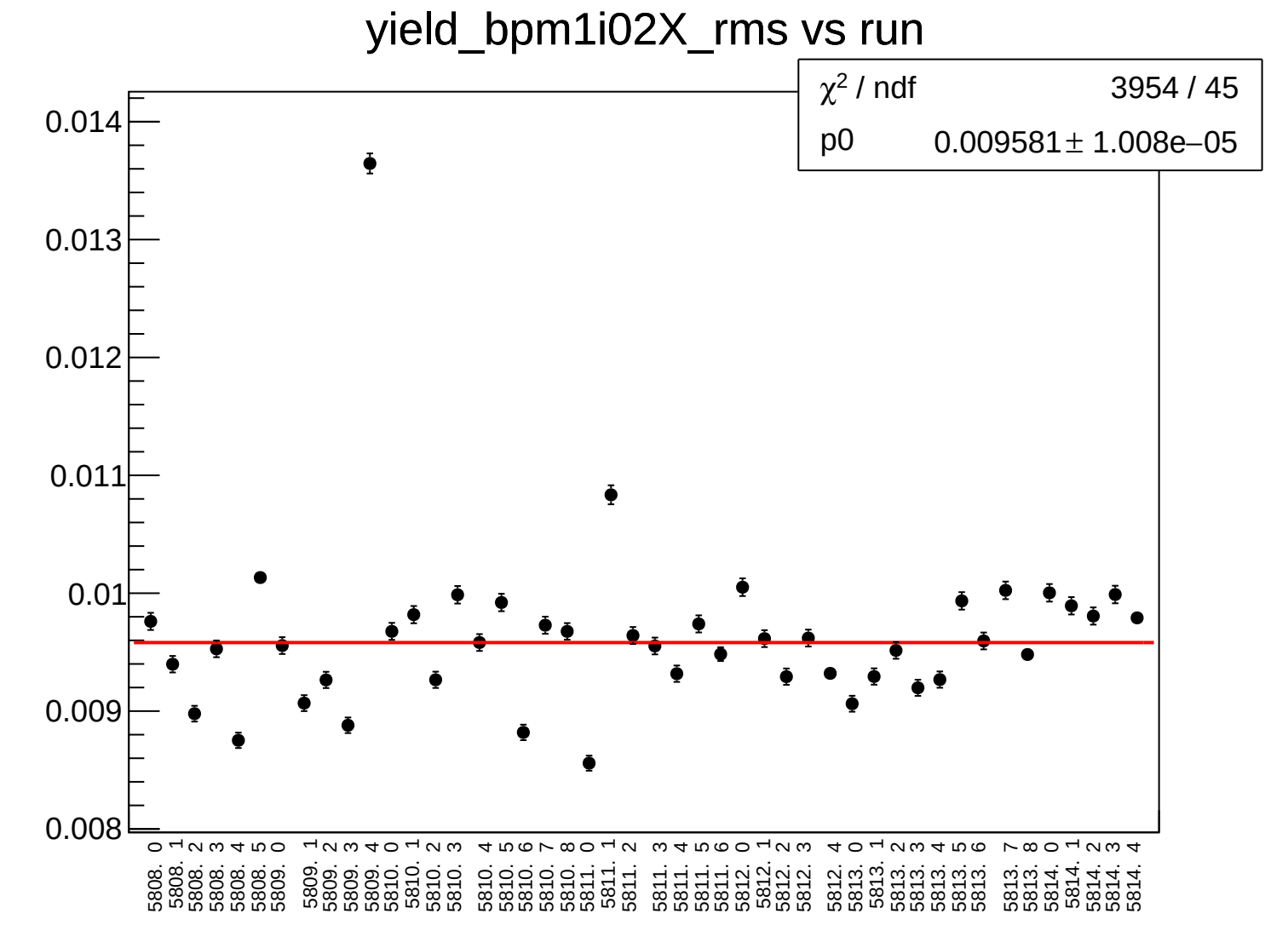

pull1D
Entries 46
Mean 7.478
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

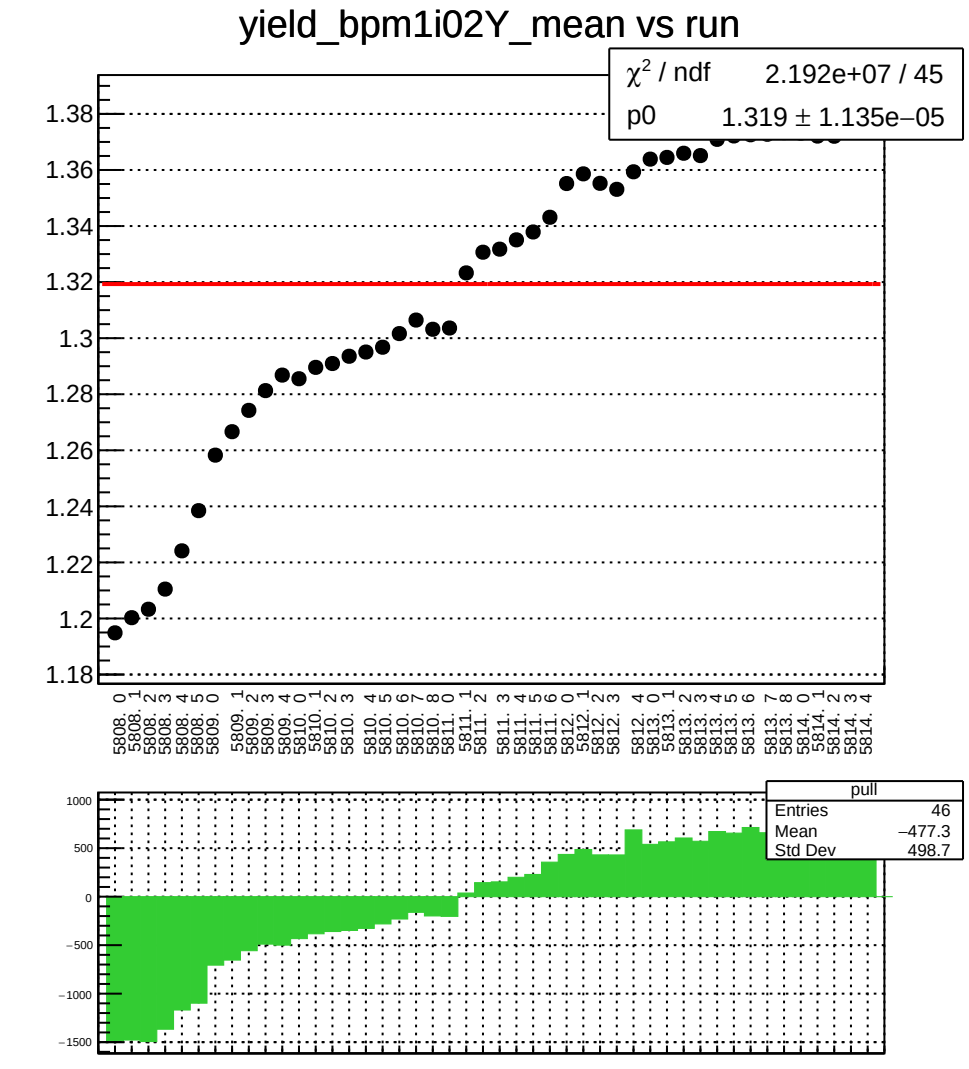

yield_bpm0i07X_rms vs run
χ² / ndf 3.653e+05 / 45
p0 0.01151 ± 1.563e–05
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

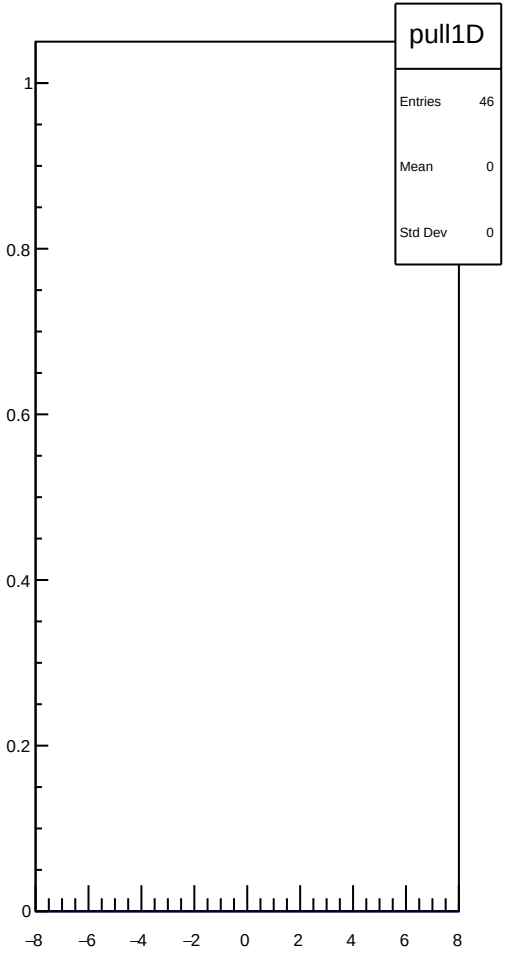

yield_bpm0i07Y_mean vs run
χ² / ndf 4.351e+06 / 45
p0 0.3863 ± 1.456e−05
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1.358
Std Dev 20.26
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 46
Mean −0.6737
Std Dev 1.429
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

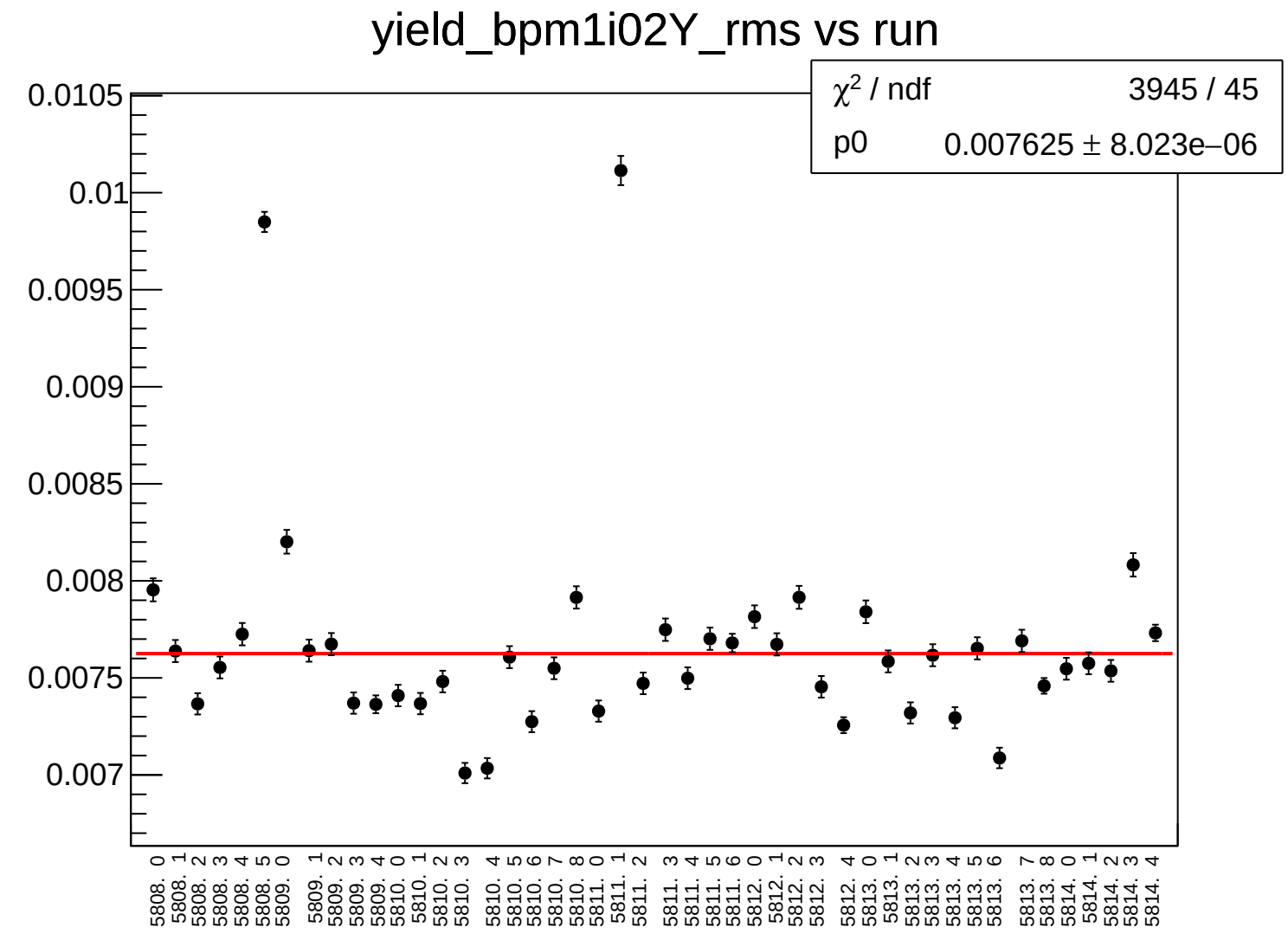

yield_bpm0i07Y_rms vs run
χ² / ndf 4.126e+05 / 45
p0 0.00724 ± 1.029e−05
0.06
0.05
0.04
0.03
0.02
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

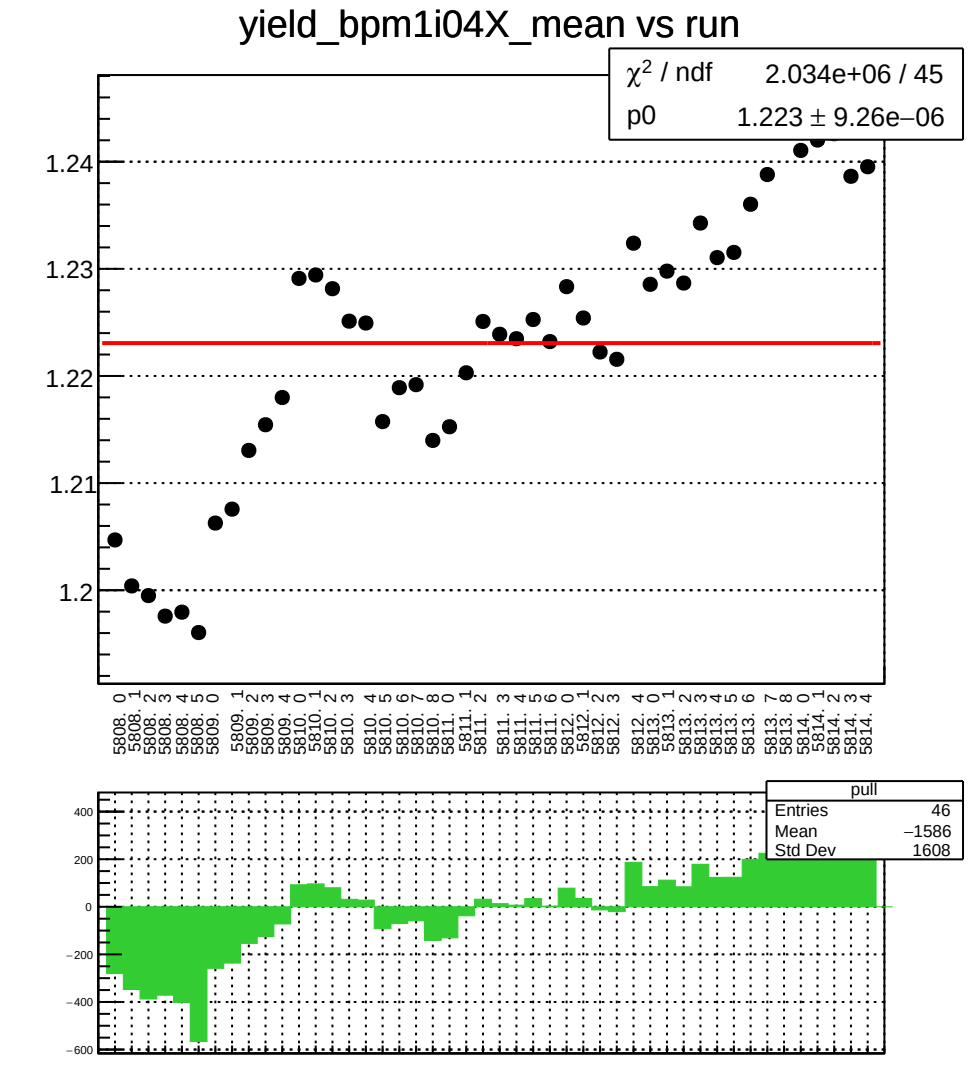

yield_bpm1i02X_mean vs run
χ² / ndf 3.44e+06 / 45
p0 0.09665 ± 1.426e−05
0.16
0.14
0.12
0.1
0.08
0.06
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 4.273e+06
Std Dev 4.273e+06
600
400
200
0
−200
−400
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

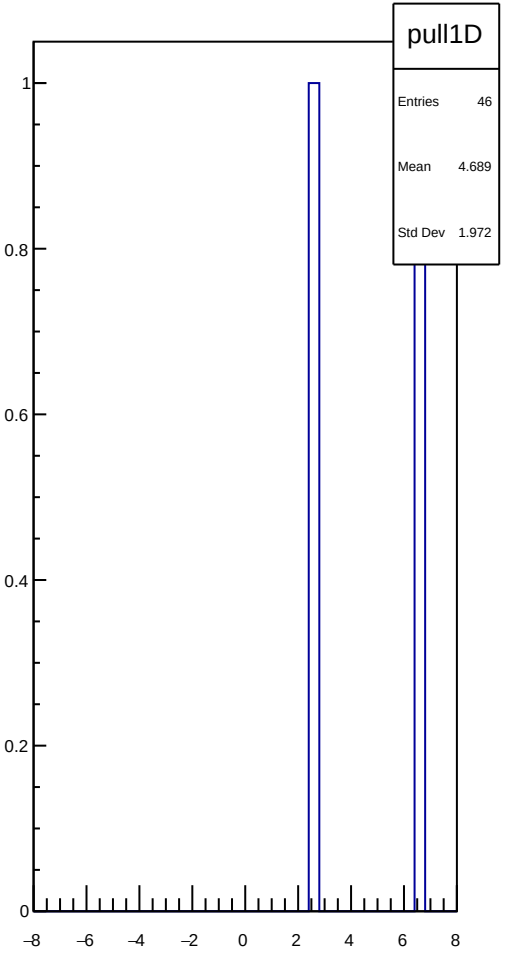

yield_bpm1i02X_rms vs run
χ² / ndf 3954 / 45
p0 0.009581 ± 1.008e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

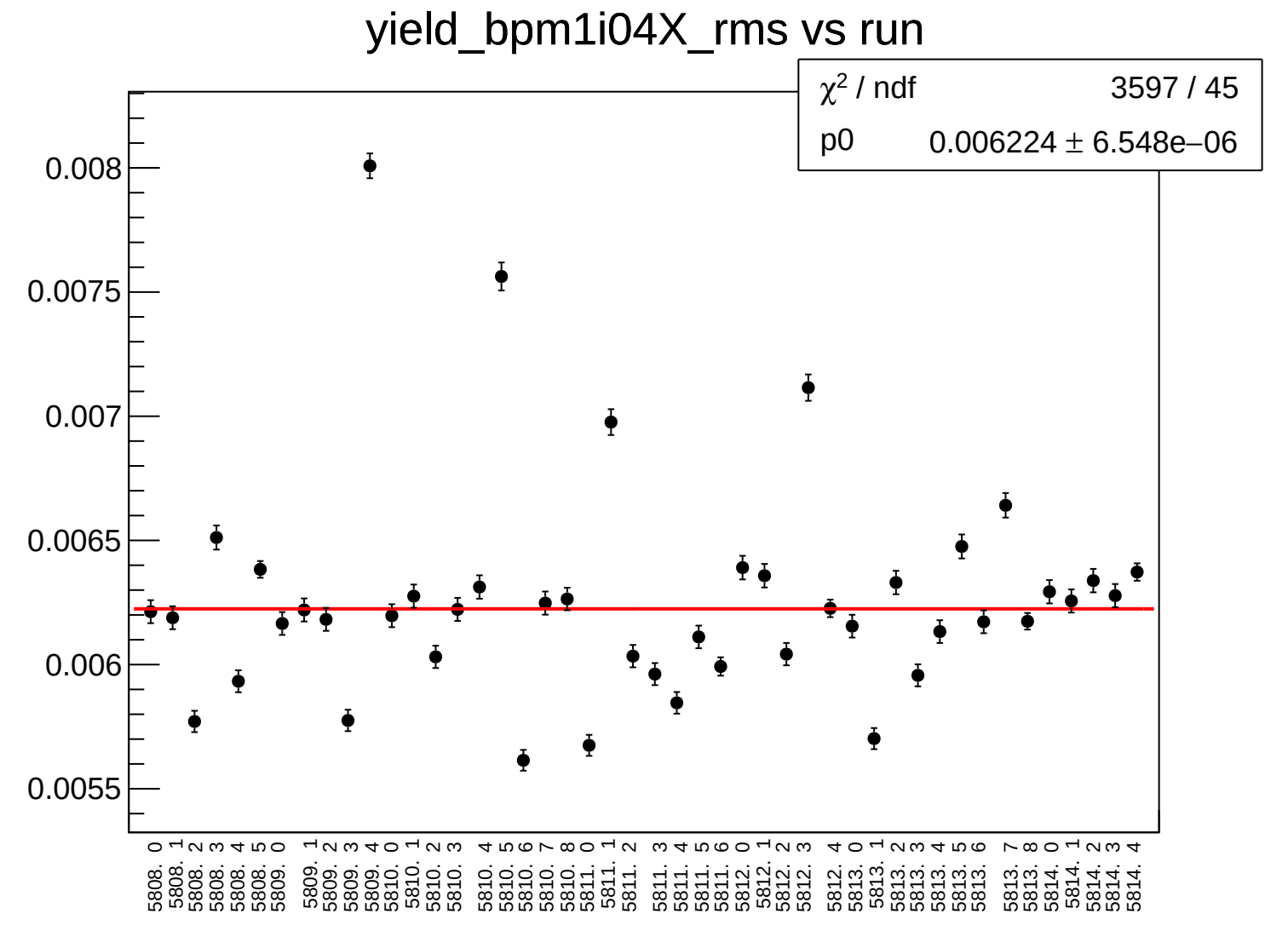

yield_bpm1i02Y_mean vs run
χ² / ndf 2.192e+07 / 45
p0 1.319 ± 1.135e−05
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
1.18
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −477.3
Std Dev 498.7
1000
500
0
−500
−1000
−1500

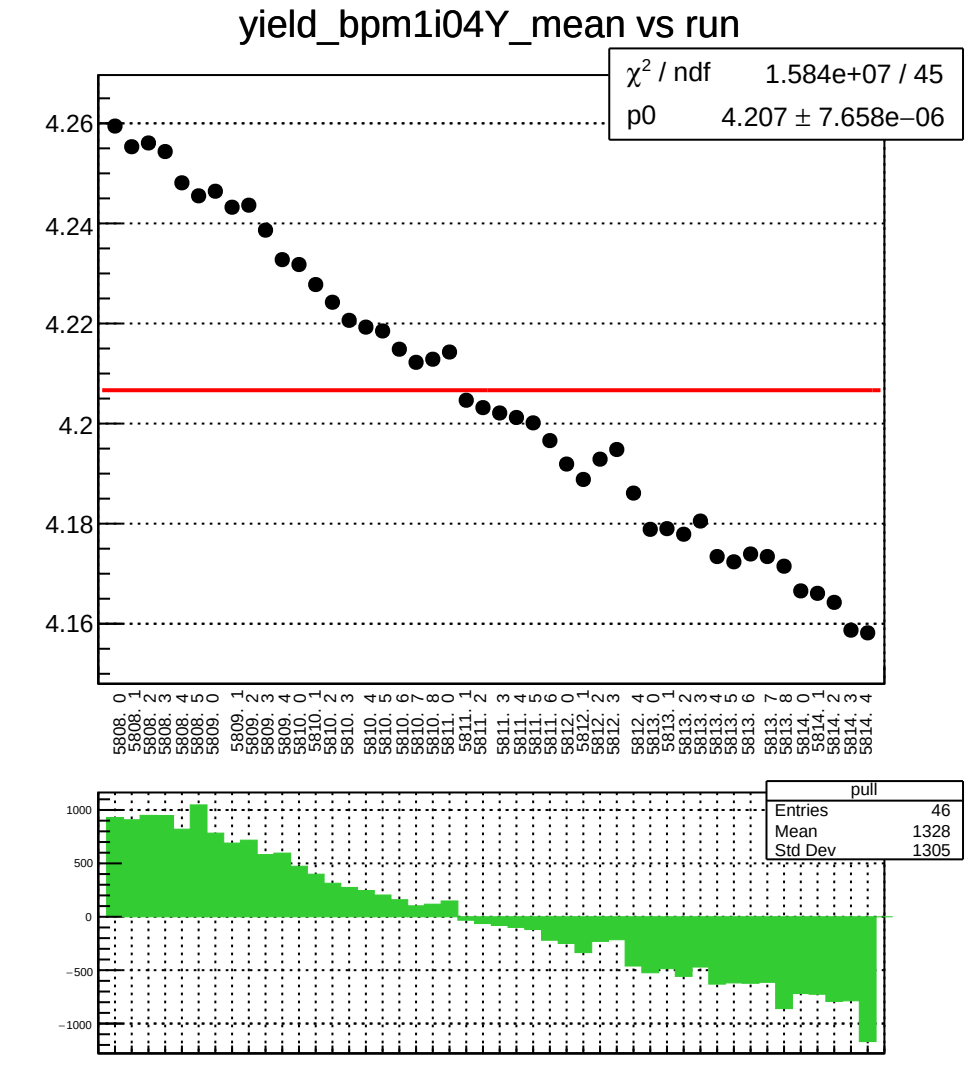

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

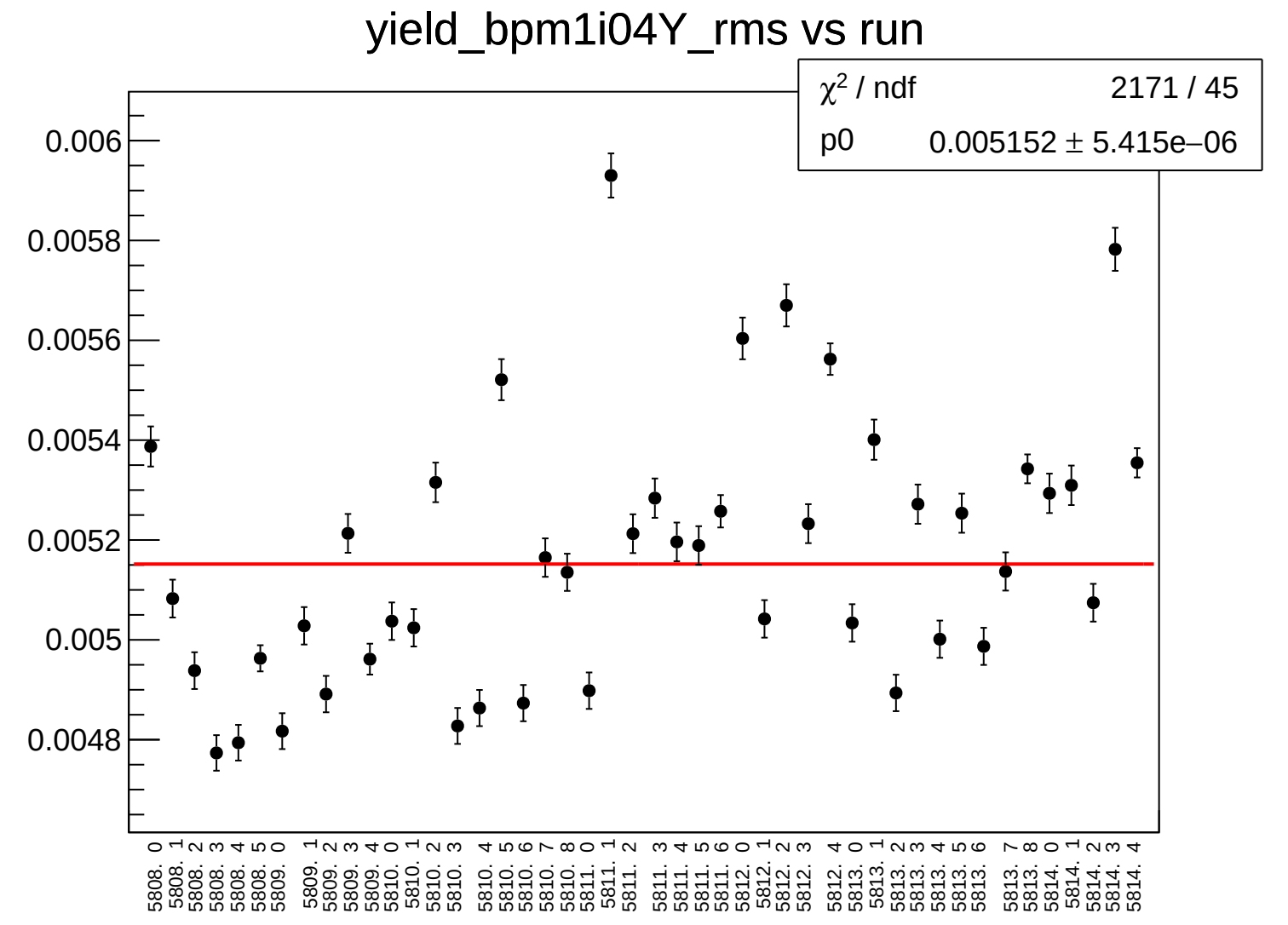

yield_bpm1i02Y_rms vs run
χ² / ndf 3945 / 45
p0 0.007625 ± 8.023e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

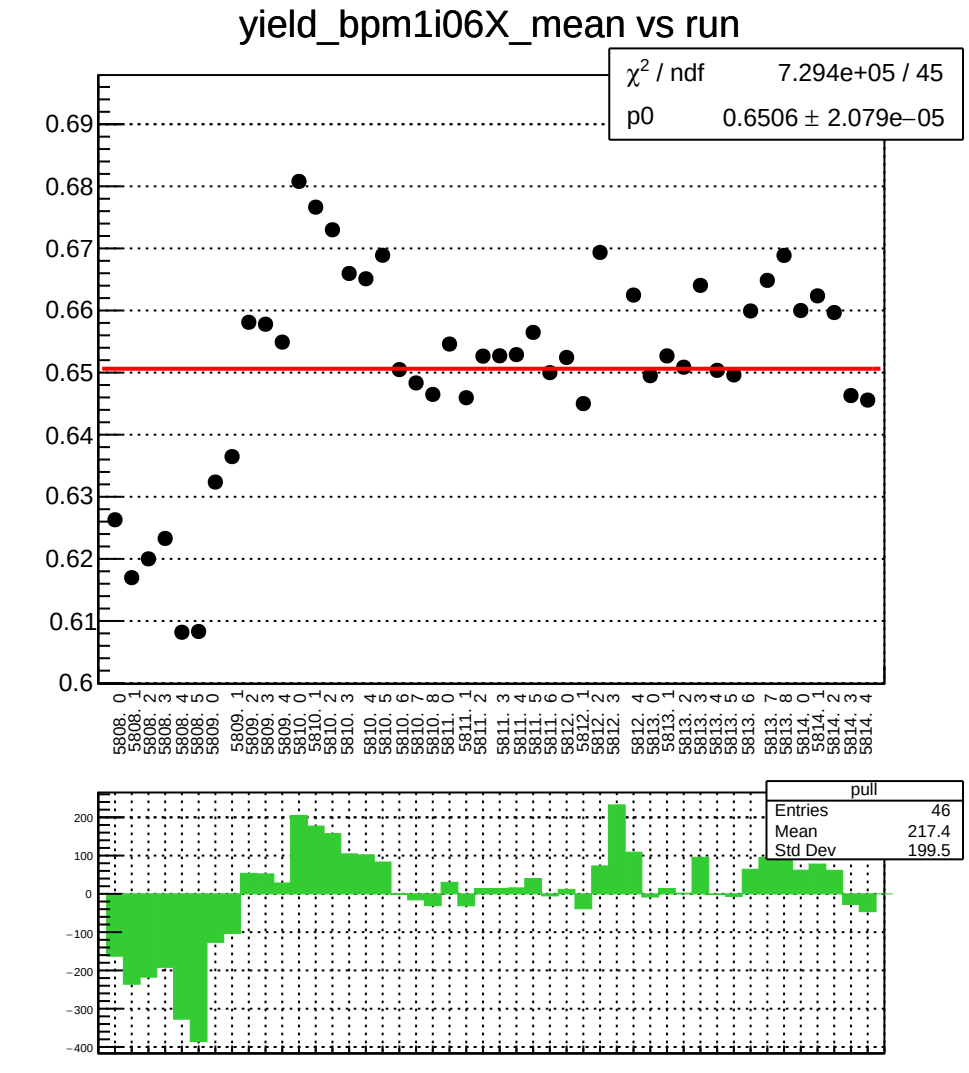

yield_bpm1i04X_mean vs run
χ² / ndf 2.034e+06 / 45
p0 1.223 ± 9.26e−06
1.24
1.23
1.22
1.21
1.2
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5809. 5
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −1586
Std Dev 1608
400
200
0
−200
−400
−600

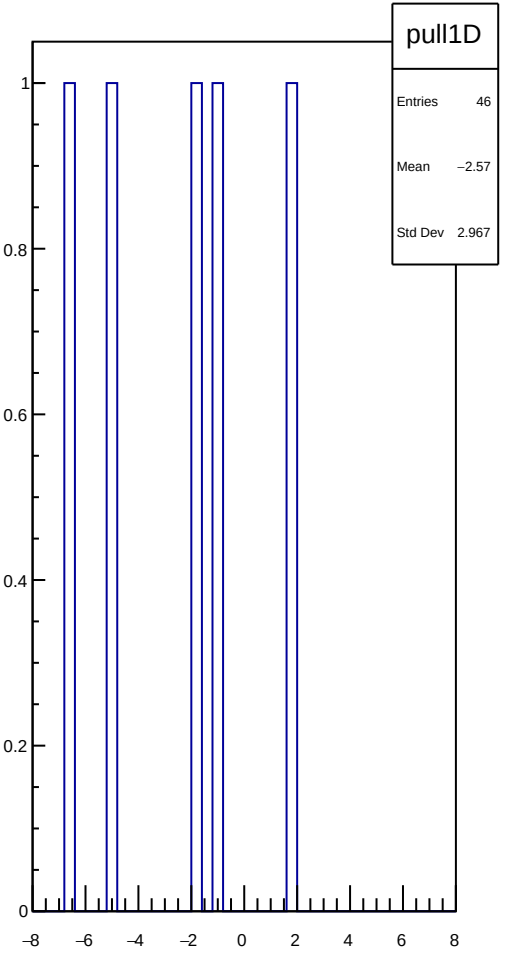

pull1D
Entries 46
Mean 4.689
Std Dev 1.972
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

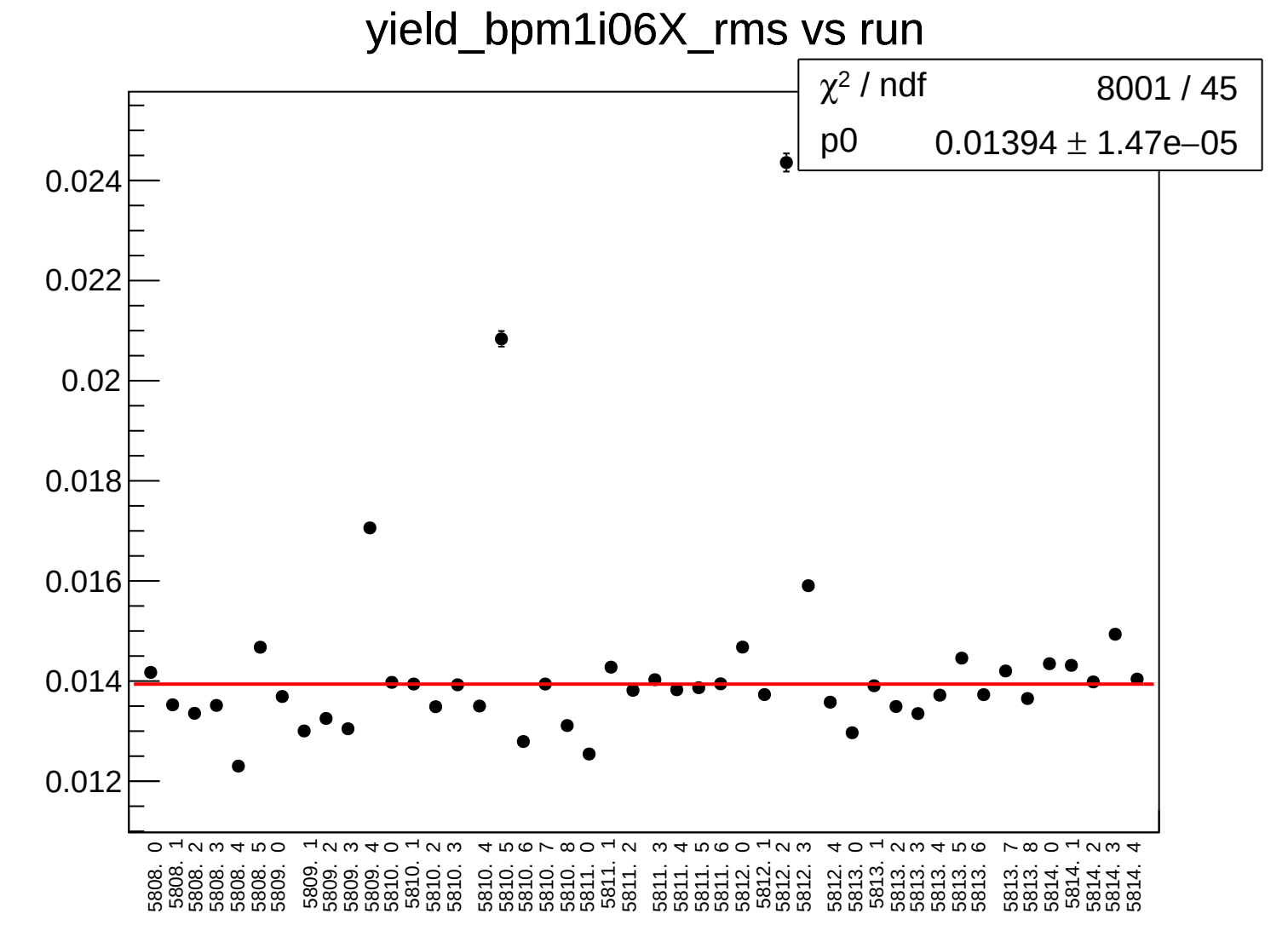

yield_bpm1i04X_rms vs run
χ² / ndf 3597 / 45
p0 0.006224 ± 6.548e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

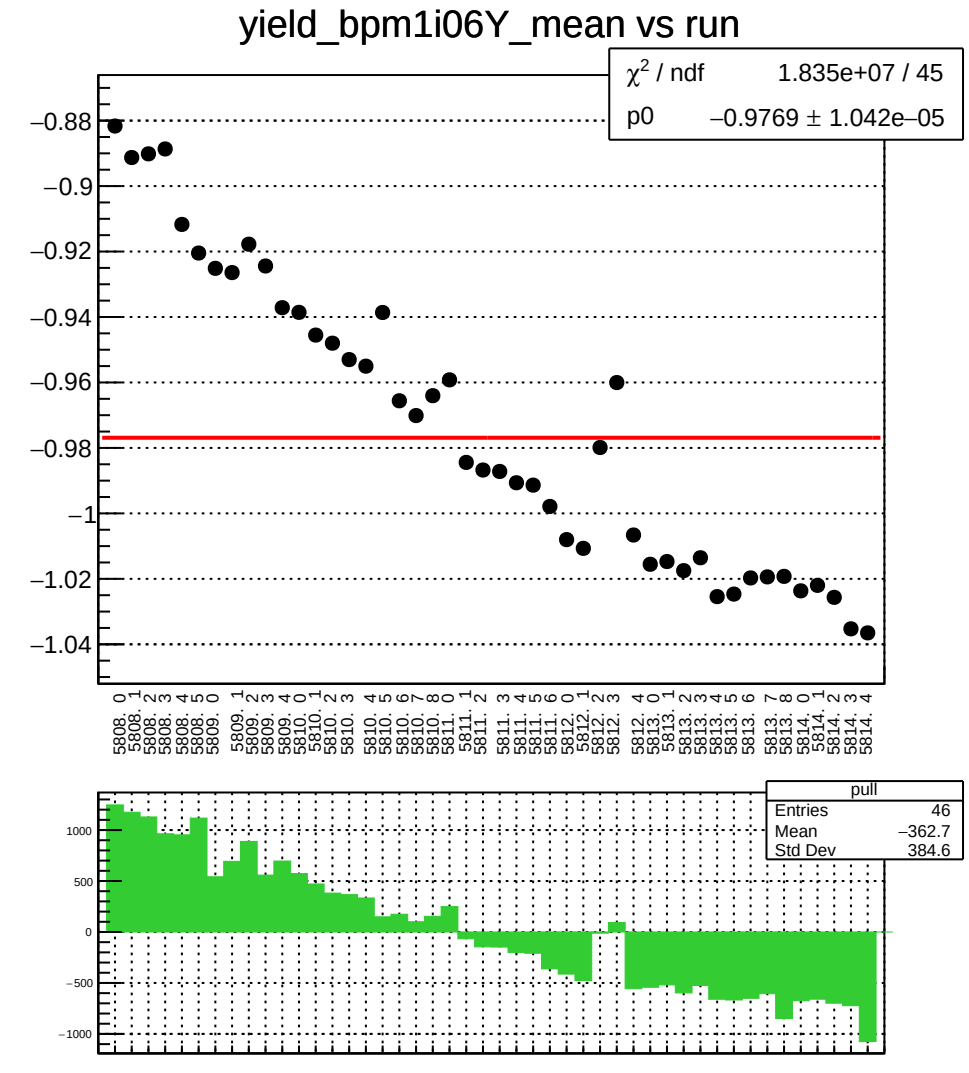

yield_bpm1i04Y_mean vs run
χ² / ndf 1.584e+07 / 45
p0 4.207 ± 7.658e−06
4.26
4.24
4.22
4.2
4.18
4.16
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 1328
Std Dev 1305
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

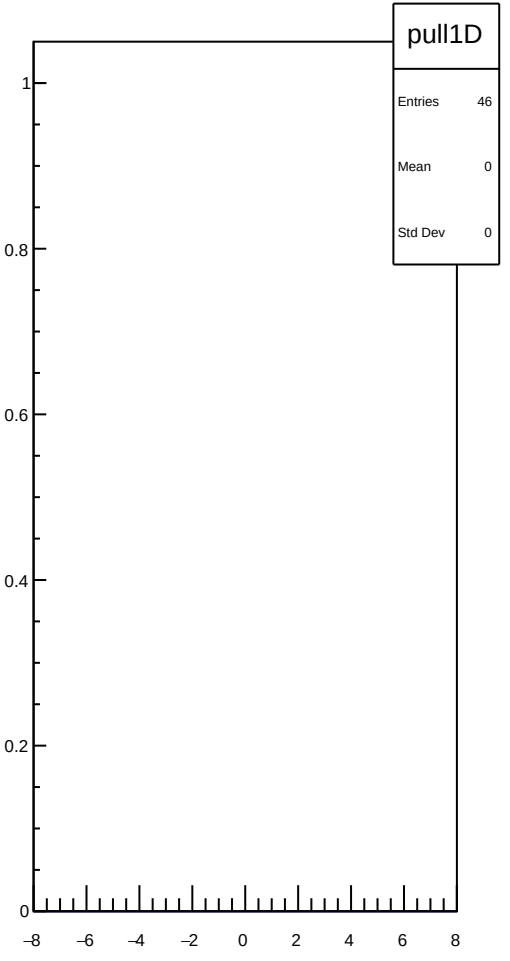

yield_bpm1i04Y_rms vs run
χ² / ndf 2171 / 45
p0 0.005152 ± 5.415e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

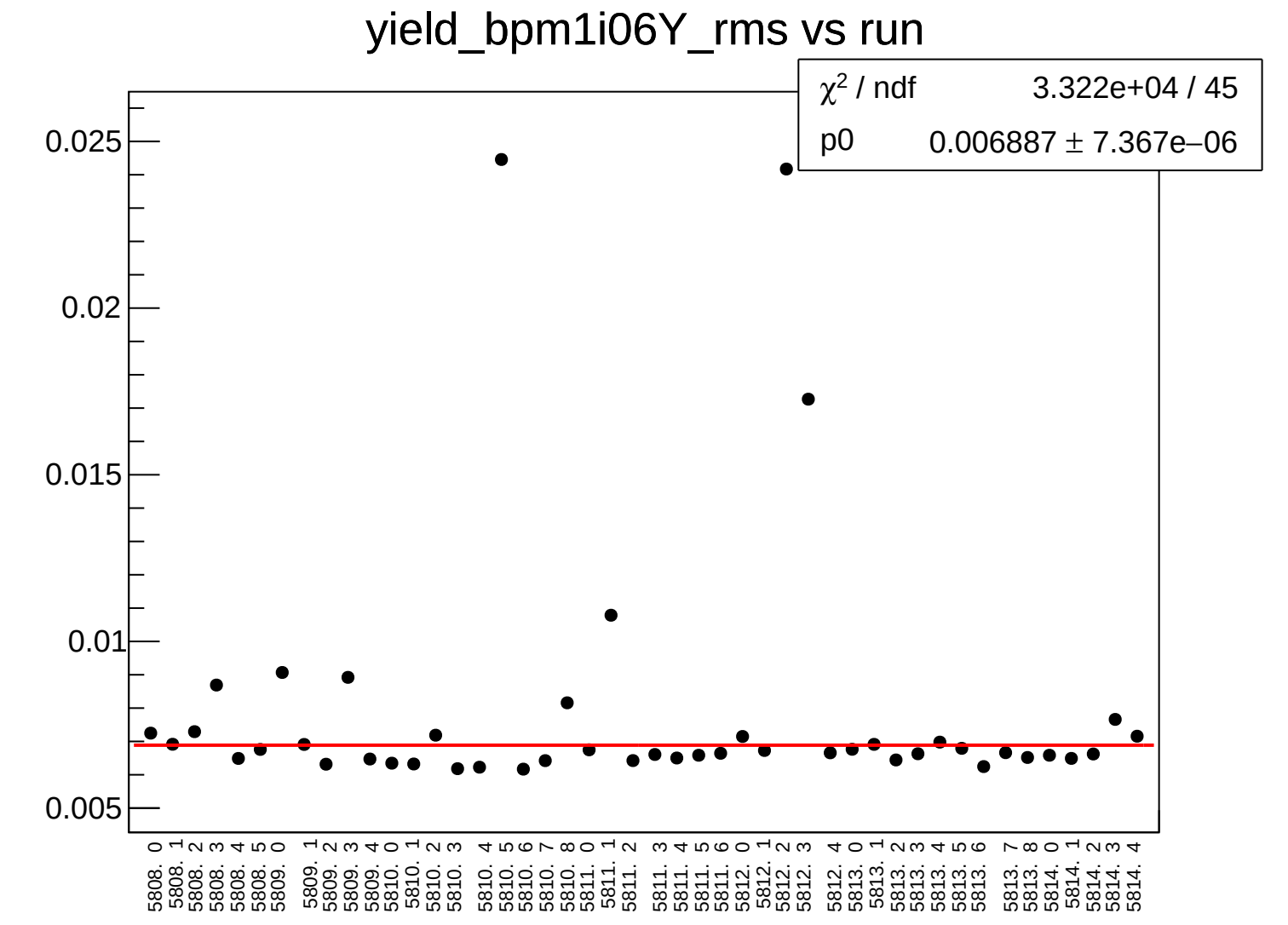

yield_bpm1i06X_mean vs run
χ² / ndf 7.294e+05 / 45
p0 0.6506 ± 2.079e−05
0.69
0.68
0.67
0.66
0.65
0.64
0.63
0.62
0.61
0.6
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 217.4
Std Dev 199.5
200
100
0
−100
−200
−300
−400

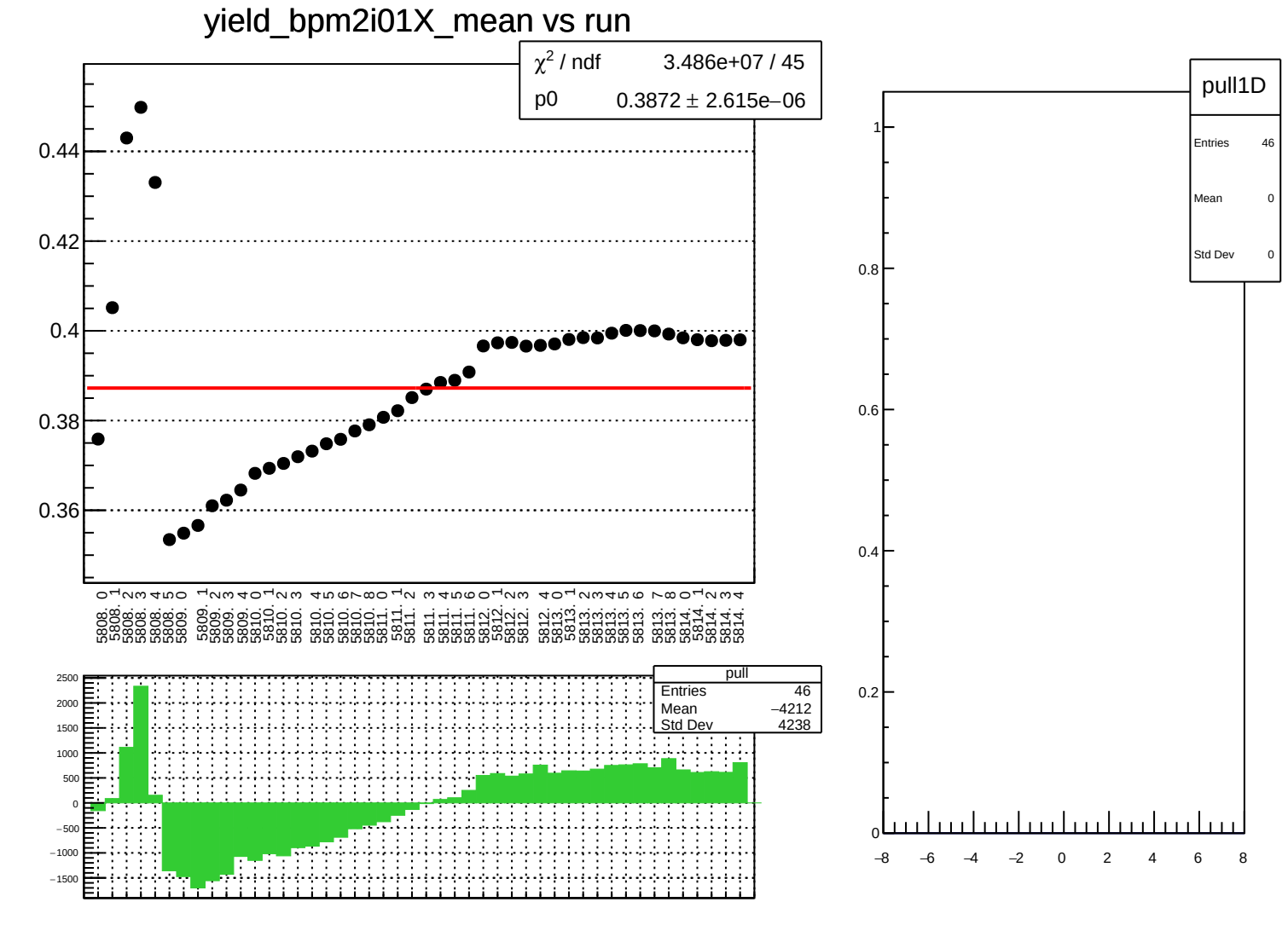

pull1D
Entries 46
Mean −2.57
Std Dev 2.967
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

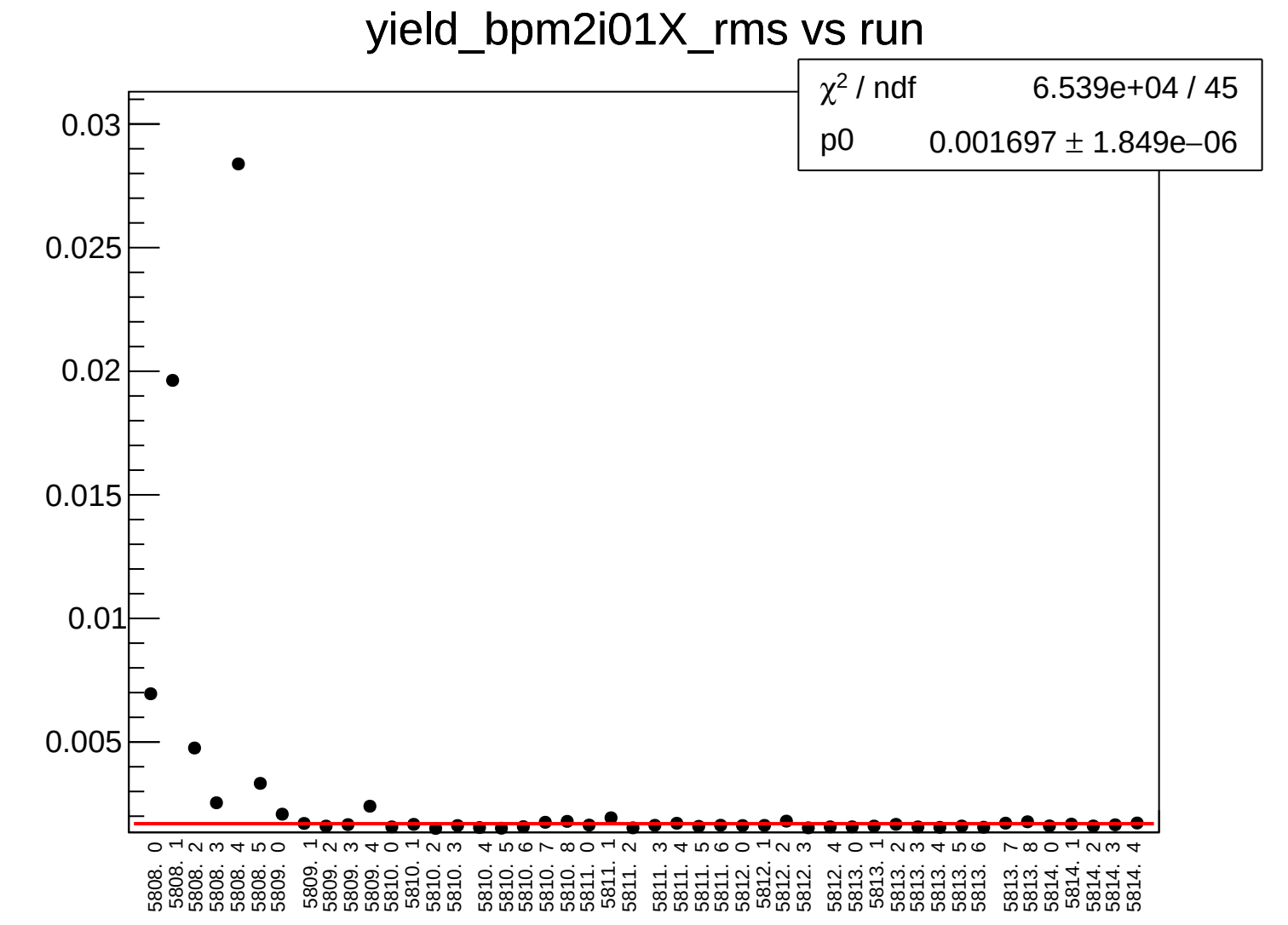

yield_bpm1i06X_rms vs run
χ² / ndf 8001 / 45
p0 0.01394 ± 1.47e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

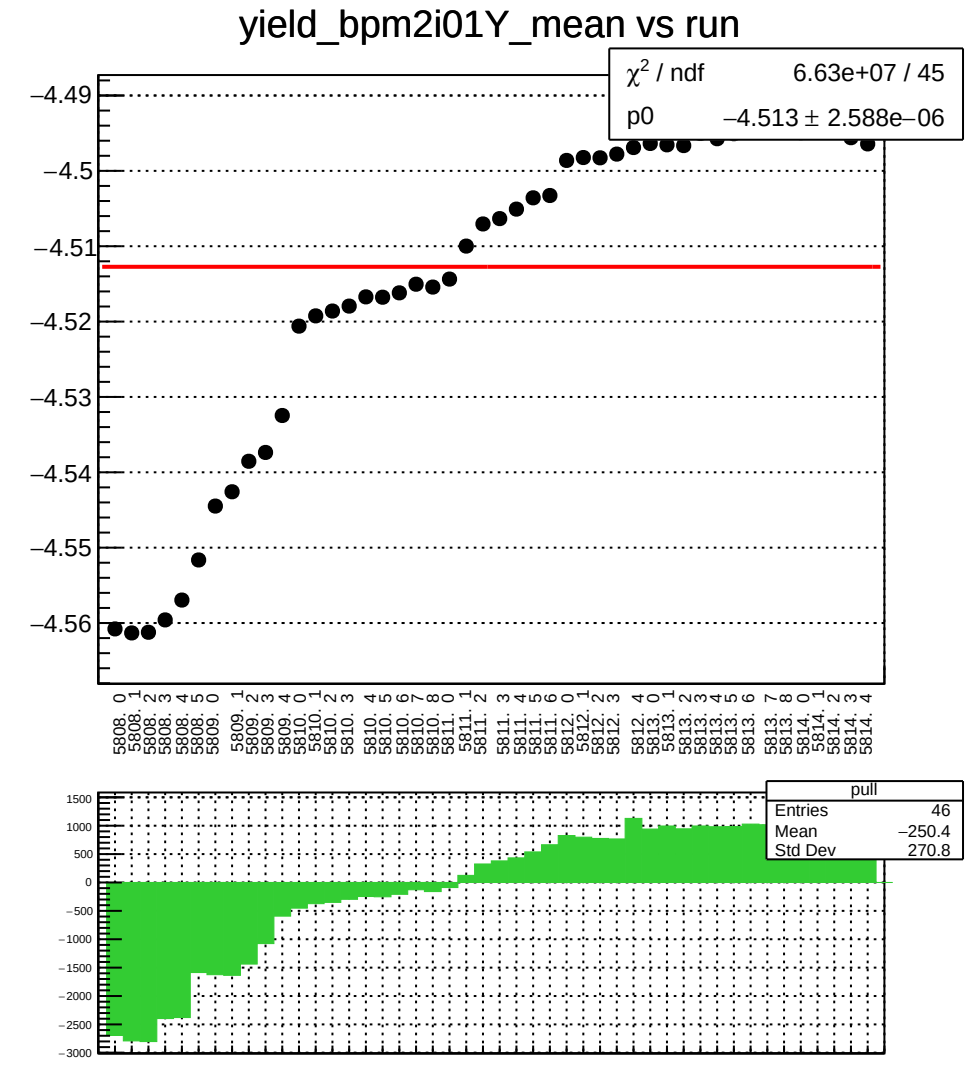

yield_bpm1i06Y_mean vs run
χ² / ndf 1.835e+07 / 45
p0 −0.9769 ± 1.042e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −362.7
Std Dev 384.6
1000
500
0
−500
−1000

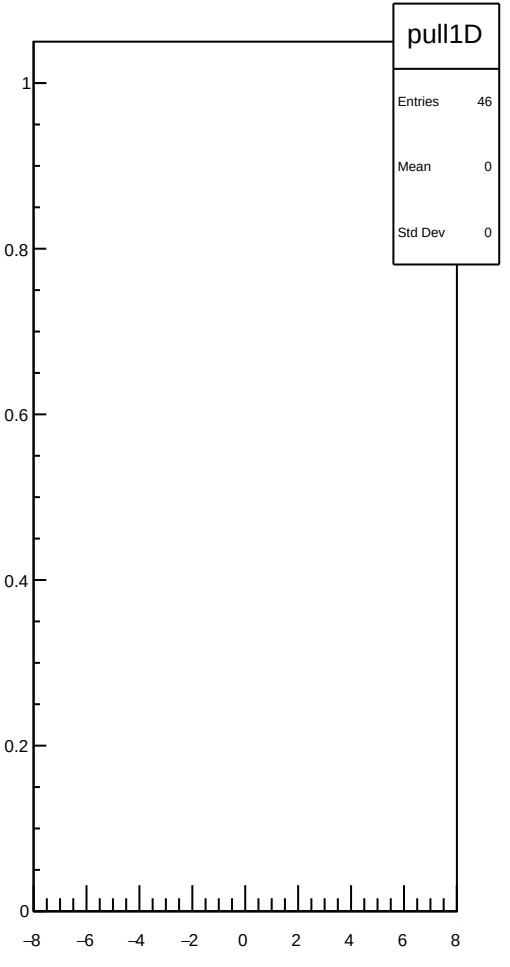

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

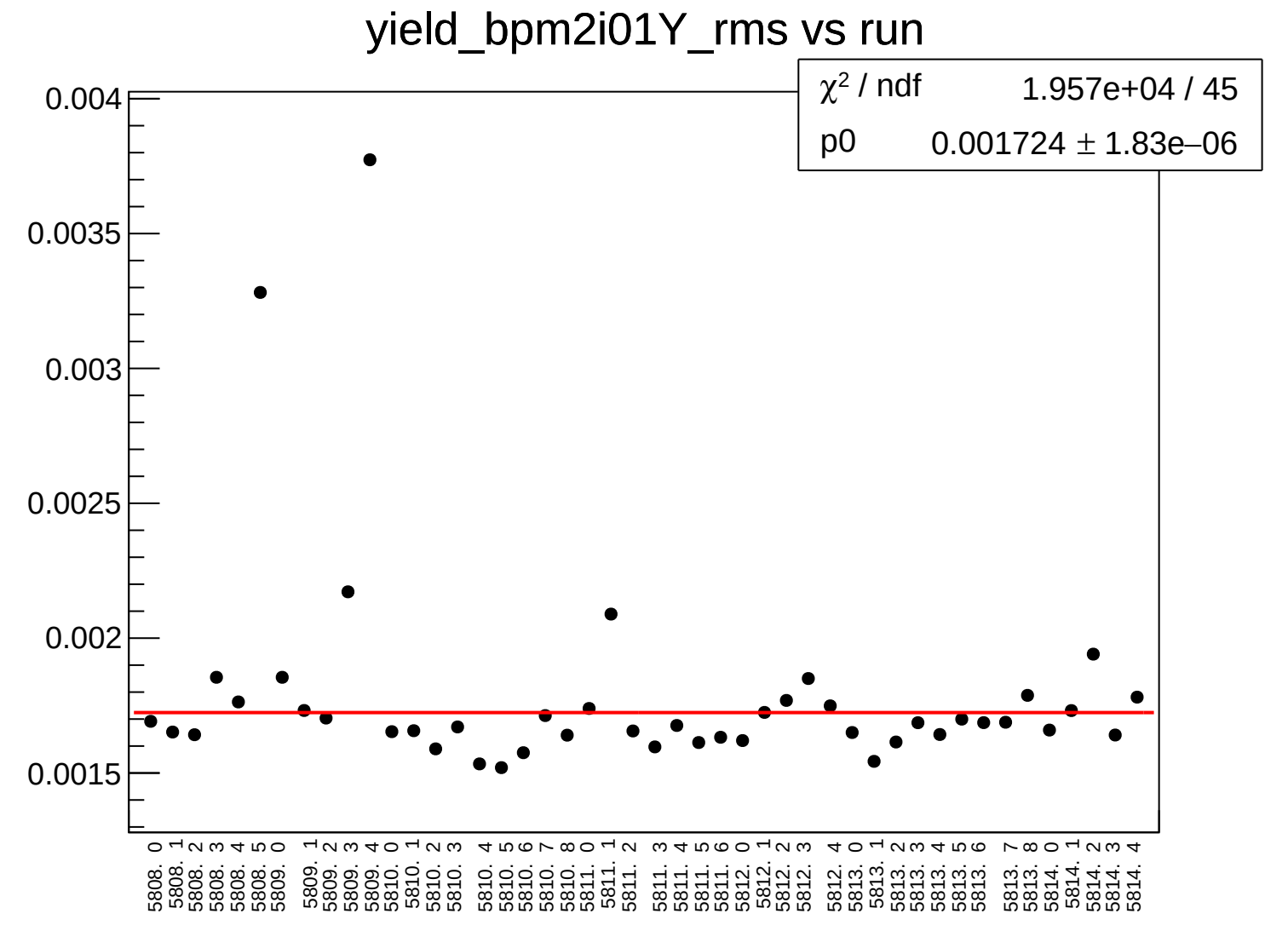

yield_bpm1i06Y_rms vs run
χ² / ndf 3.322e+04 / 45
p0 0.006887 ± 7.367e−06
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

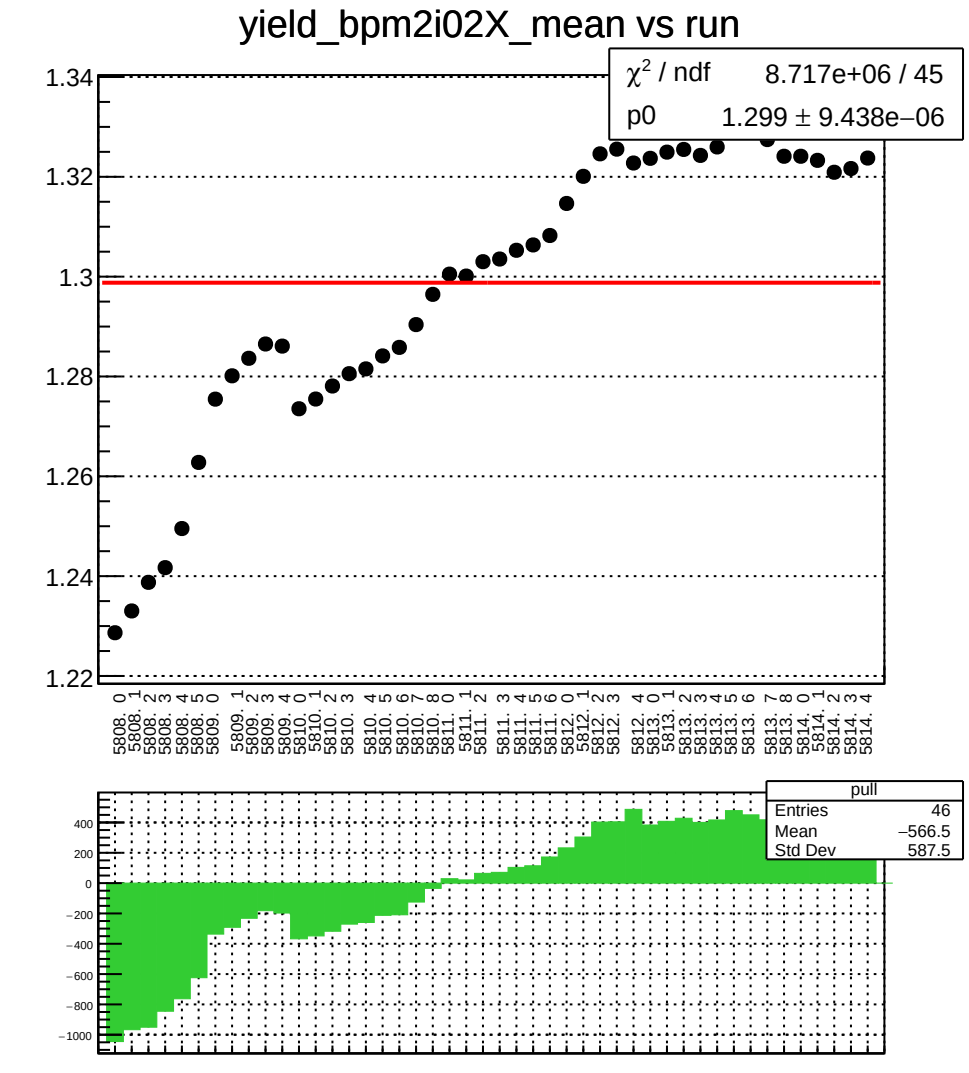

yield_bpm2i01X_mean vs run
χ² / ndf 3.486e+07 / 45
p0 0.3872 ± 2.615e−06
0.44
0.42
0.4
0.38
0.36
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −4212
Std Dev 4238
2500
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

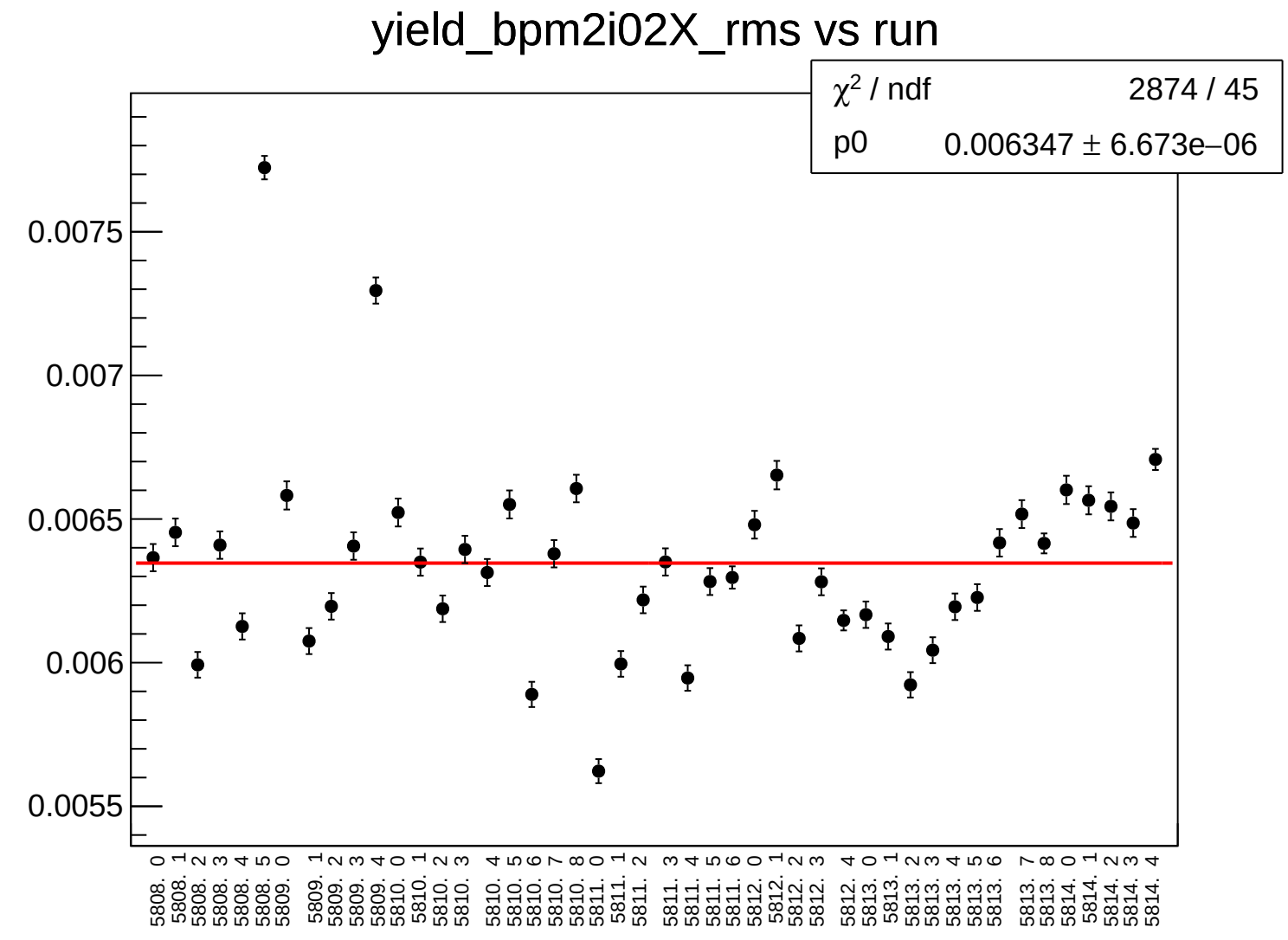

yield_bpm2i01X_rms vs run
χ² / ndf 6.539e+04 / 45
p0 0.001697 ± 1.849e−06
0.03
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

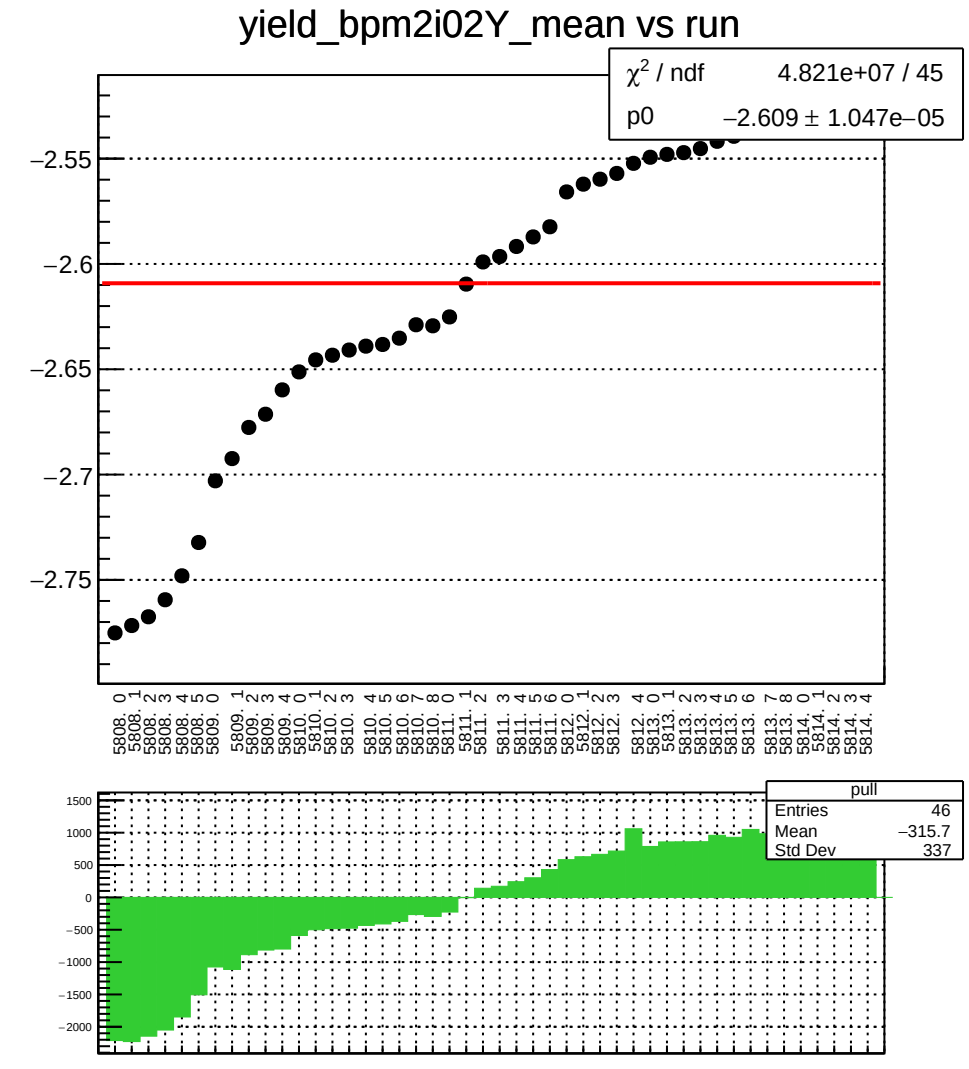

yield_bpm2i01Y_mean vs run
χ² / ndf 6.63e+07 / 45
p0 −4.513 ± 2.588e−06
−4.49
−4.5
−4.51
−4.52
−4.53
−4.54
−4.55
−4.56
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −250.4
Std Dev 270.8
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

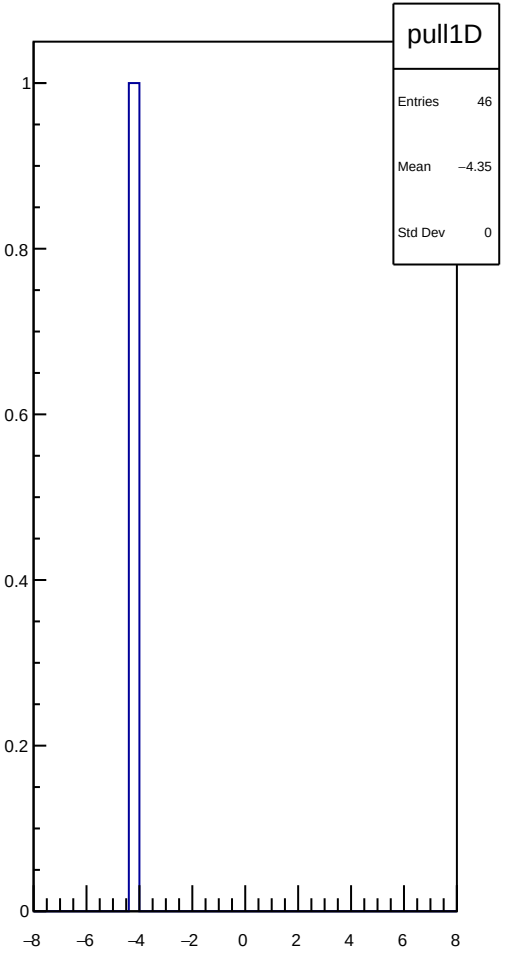

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

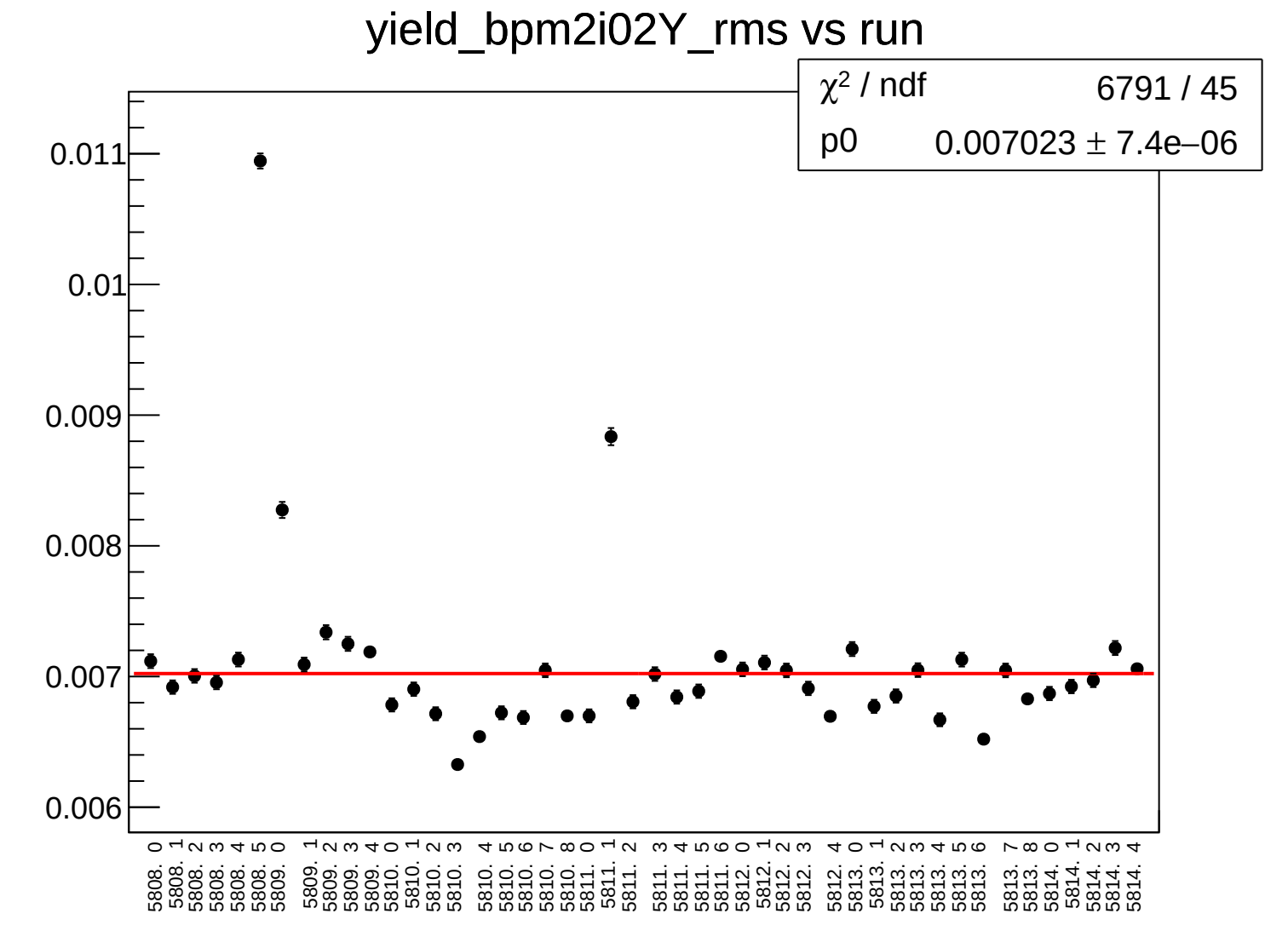

yield_bpm2i01Y_rms vs run
χ² / ndf 1.957e+04 / 45
p0 0.001724 ± 1.83e–06
0.004
0.0035
0.003
0.0025
0.002
0.0015
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

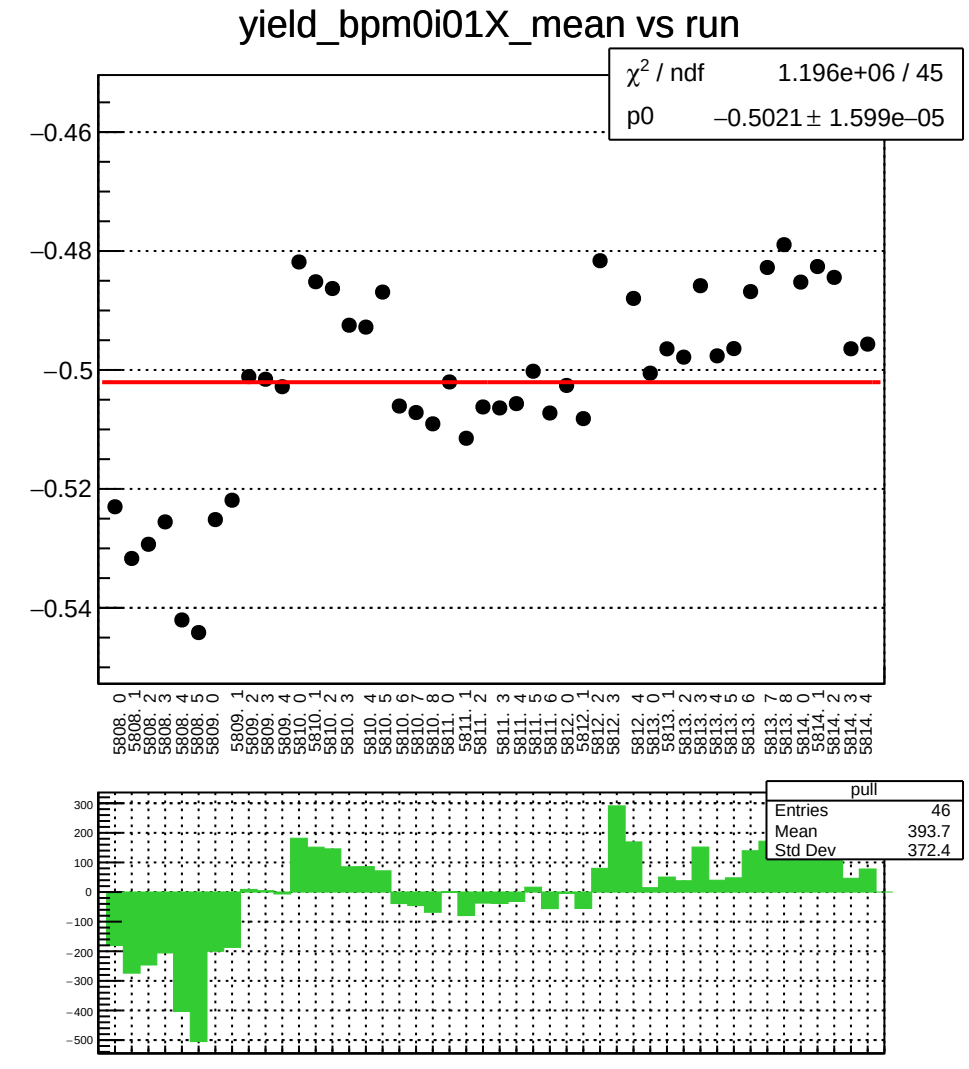

yield_bpm2i02X_mean vs run
χ² / ndf 8.717e+06 / 45
p0 1.299 ± 9.438e−06
1.34
1.32
1.3
1.28
1.26
1.24
1.22
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −566.5
Std Dev 587.5
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

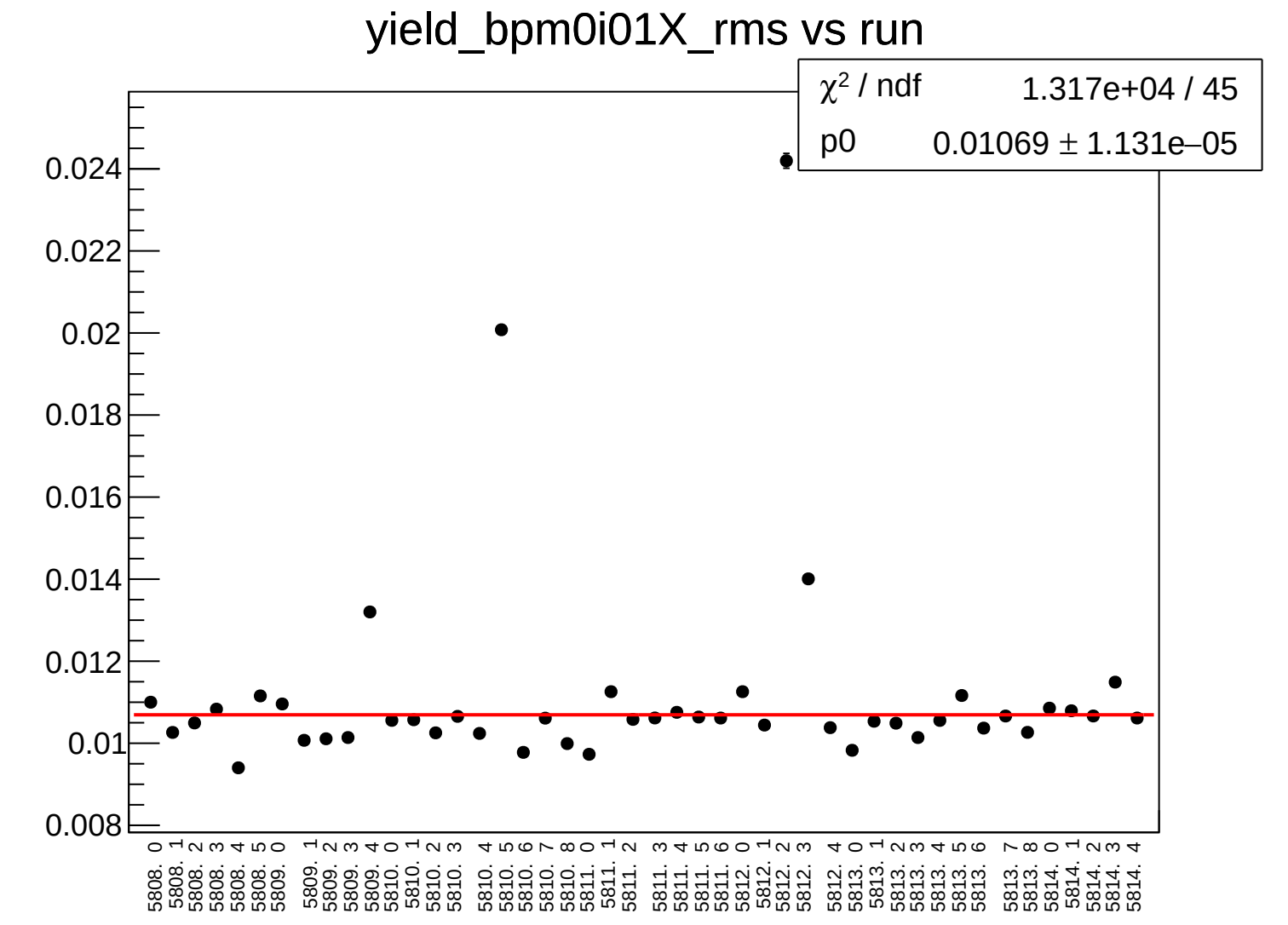

yield_bpm2i02X_rms vs run
χ² / ndf 2874 / 45
p0 0.006347 ± 6.673e−06
0.0075
0.007
0.0065
0.006
0.0055
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

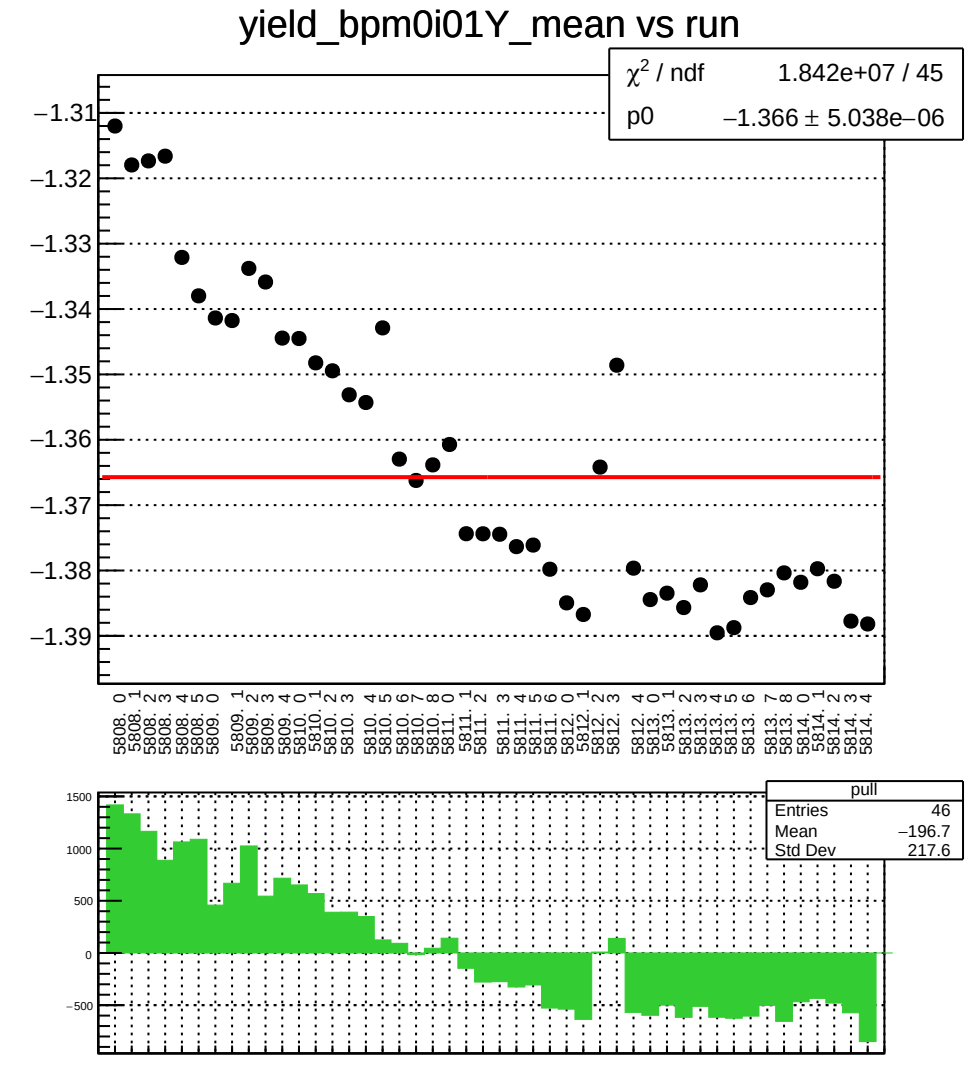

yield_bpm2i02Y_mean vs run
χ² / ndf 4.821e+07 / 45
p0 −2.609 ± 1.047e−05
−2.55
−2.6
−2.65
−2.7
−2.75
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −315.7
Std Dev 337
1500
1000
500
0
−500
−1000
−1500
−2000

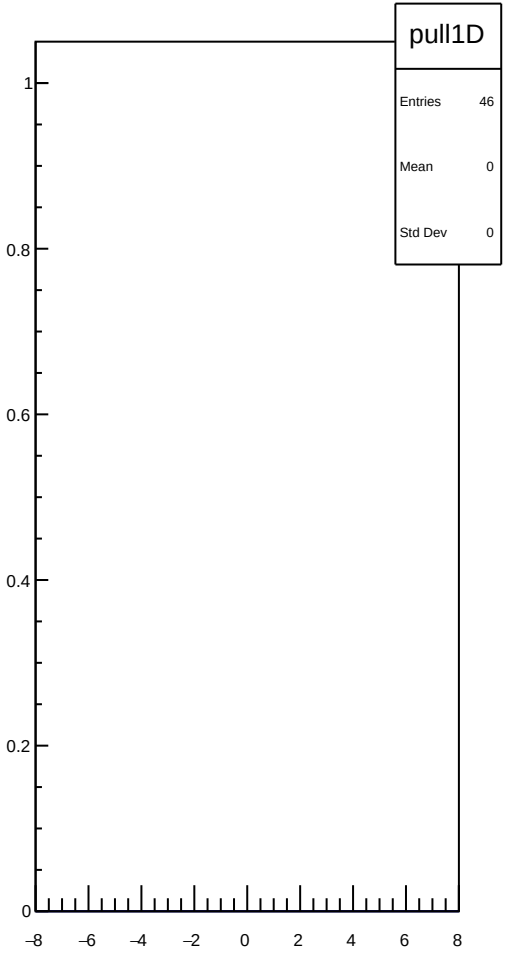

pull1D
Entries 46
Mean −4.35
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

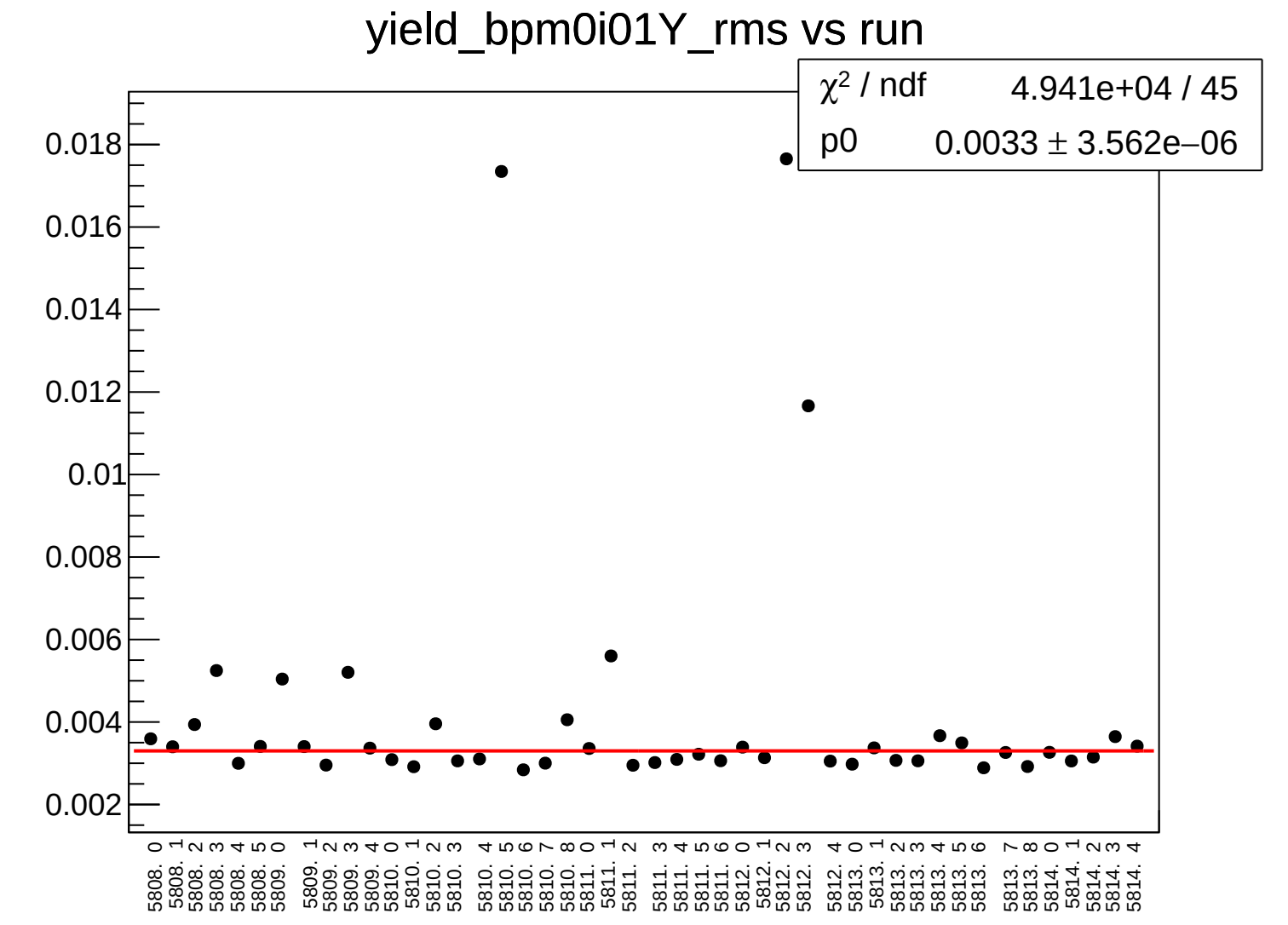

yield_bpm2i02Y_rms vs run
χ² / ndf 6791 / 45
p0 0.007023 ± 7.4e–06
0.011
0.01
0.009
0.008
0.007
0.006
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

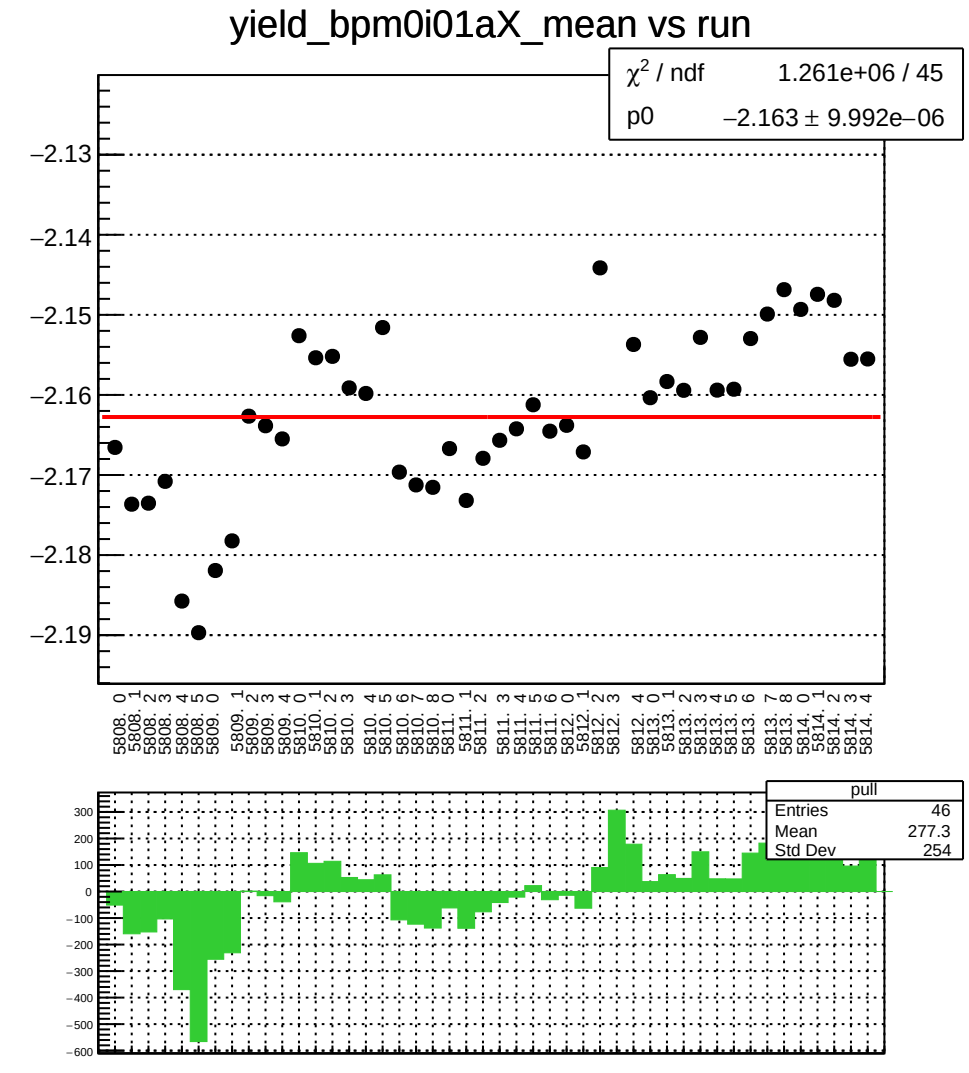

yield_bpm0i01X_mean vs run
χ² / ndf 1.196e+06 / 45
p0 −0.5021 ± 1.599e−05
−0.46
−0.48
−0.5
−0.52
−0.54
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 393.7
Std Dev 372.4
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 46
Mean −1.483
Std Dev 4.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

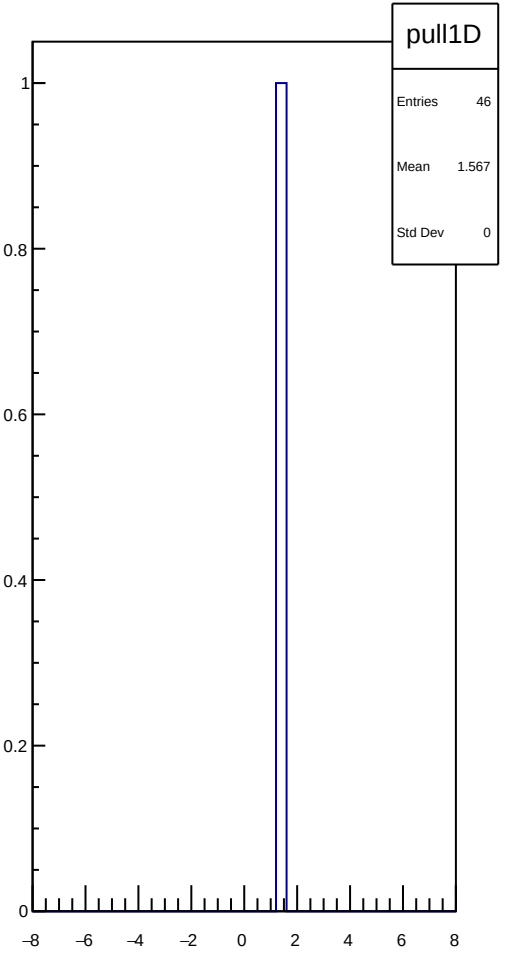

yield_bpm0i01X_rms vs run
χ² / ndf 1.317e+04 / 45
p0 0.01069 ± 1.131e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

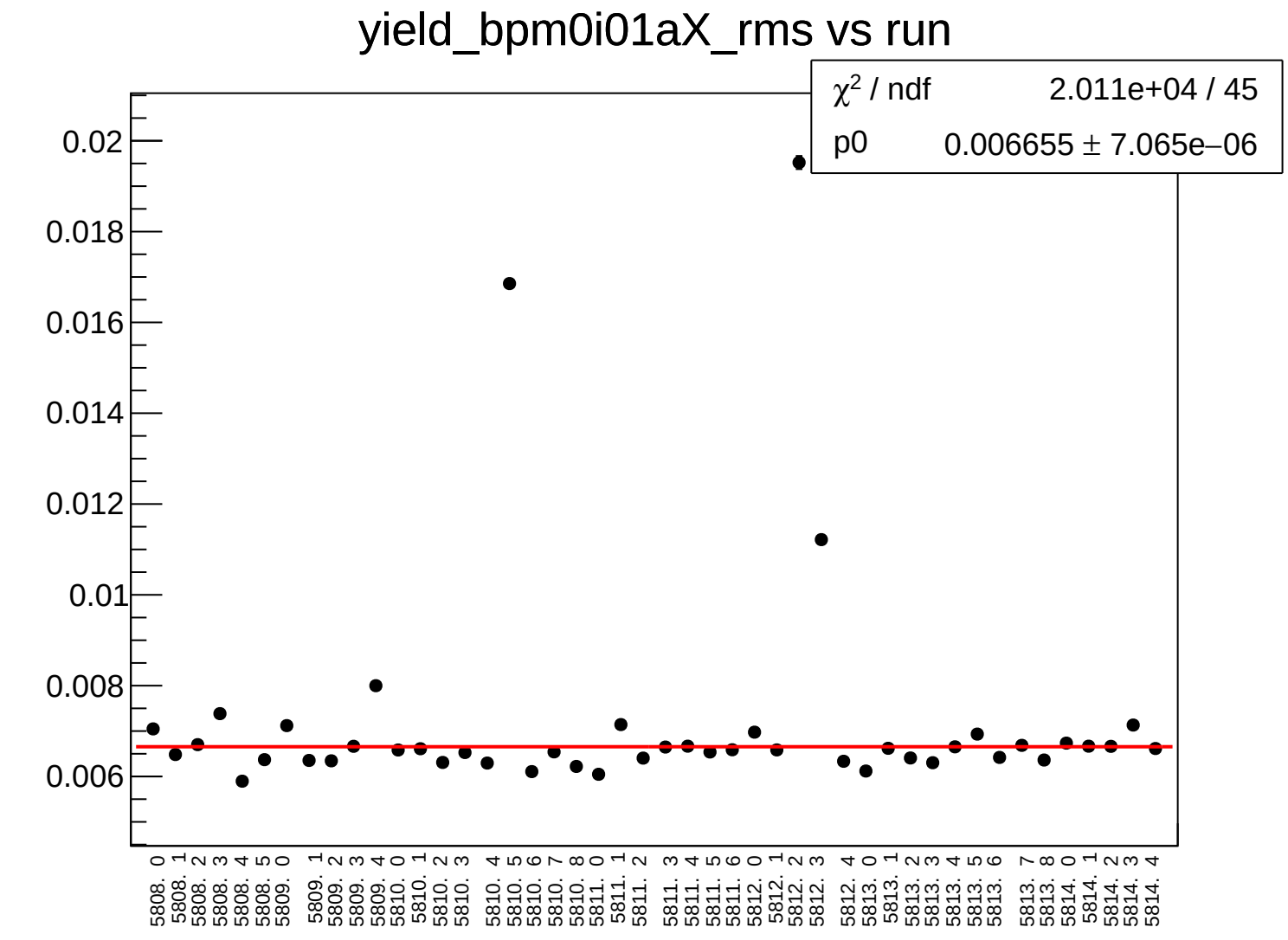

yield_bpm0i01Y_mean vs run
χ² / ndf 1.842e+07 / 45
p0 −1.366 ± 5.038e−06
−1.31
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
−1.38
−1.39
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −196.7
Std Dev 217.6
1500
1000
500
0
−500

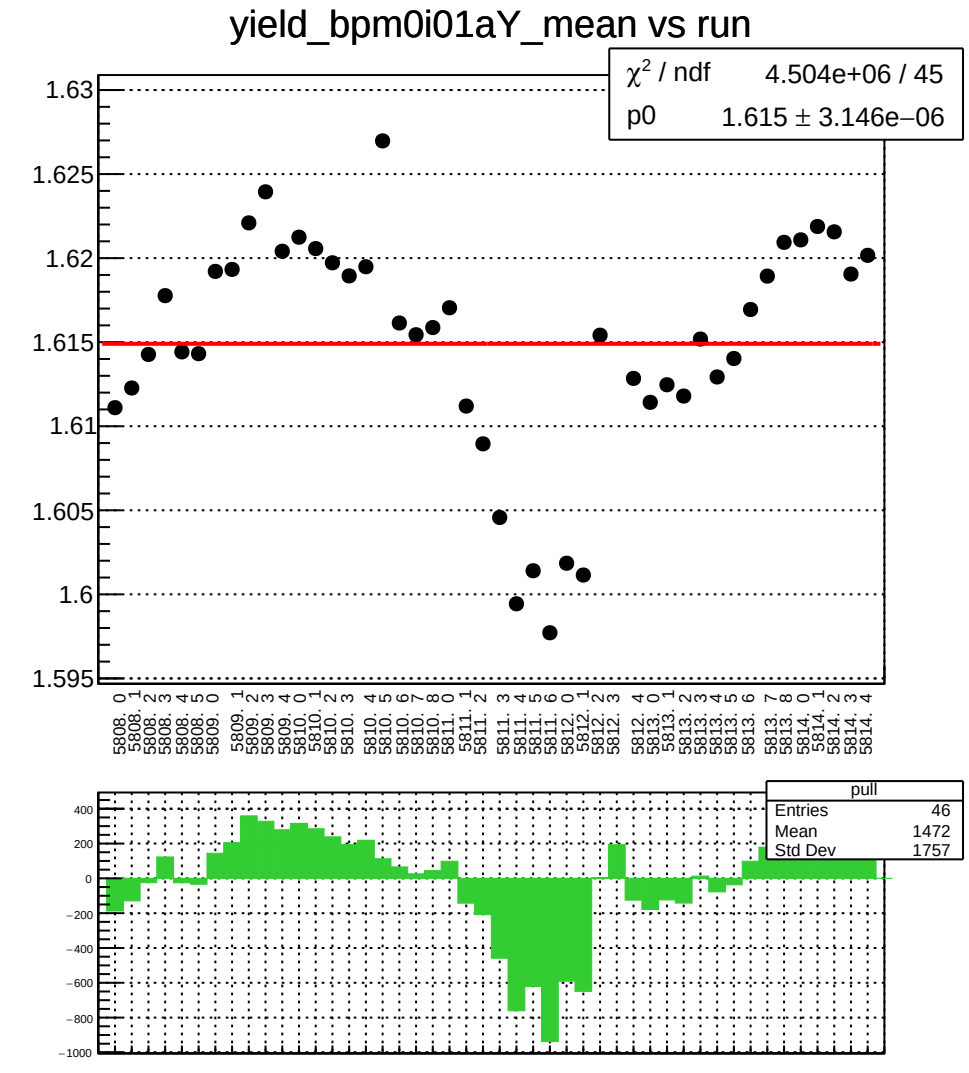

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

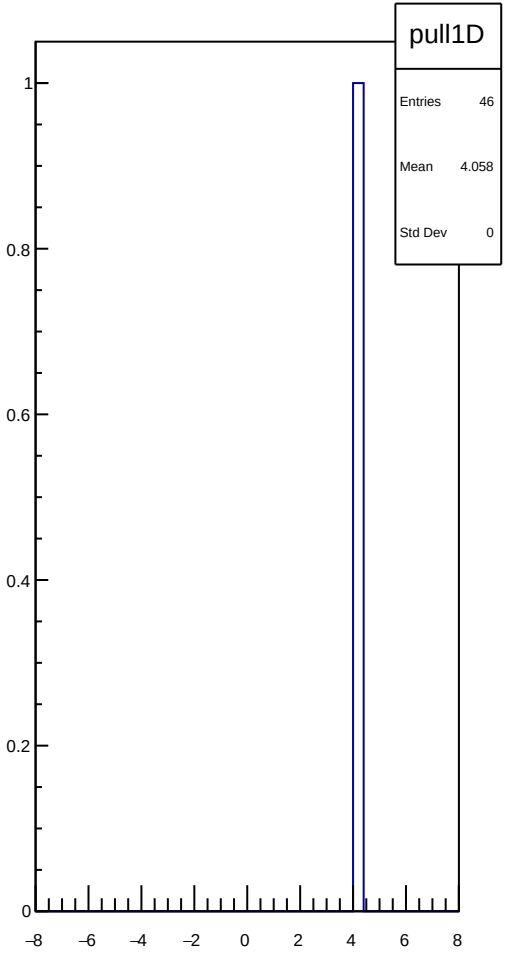

yield_bpm0i01Y_rms vs run
χ² / ndf 4.941e+04 / 45
p0 0.0033 ± 3.562e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

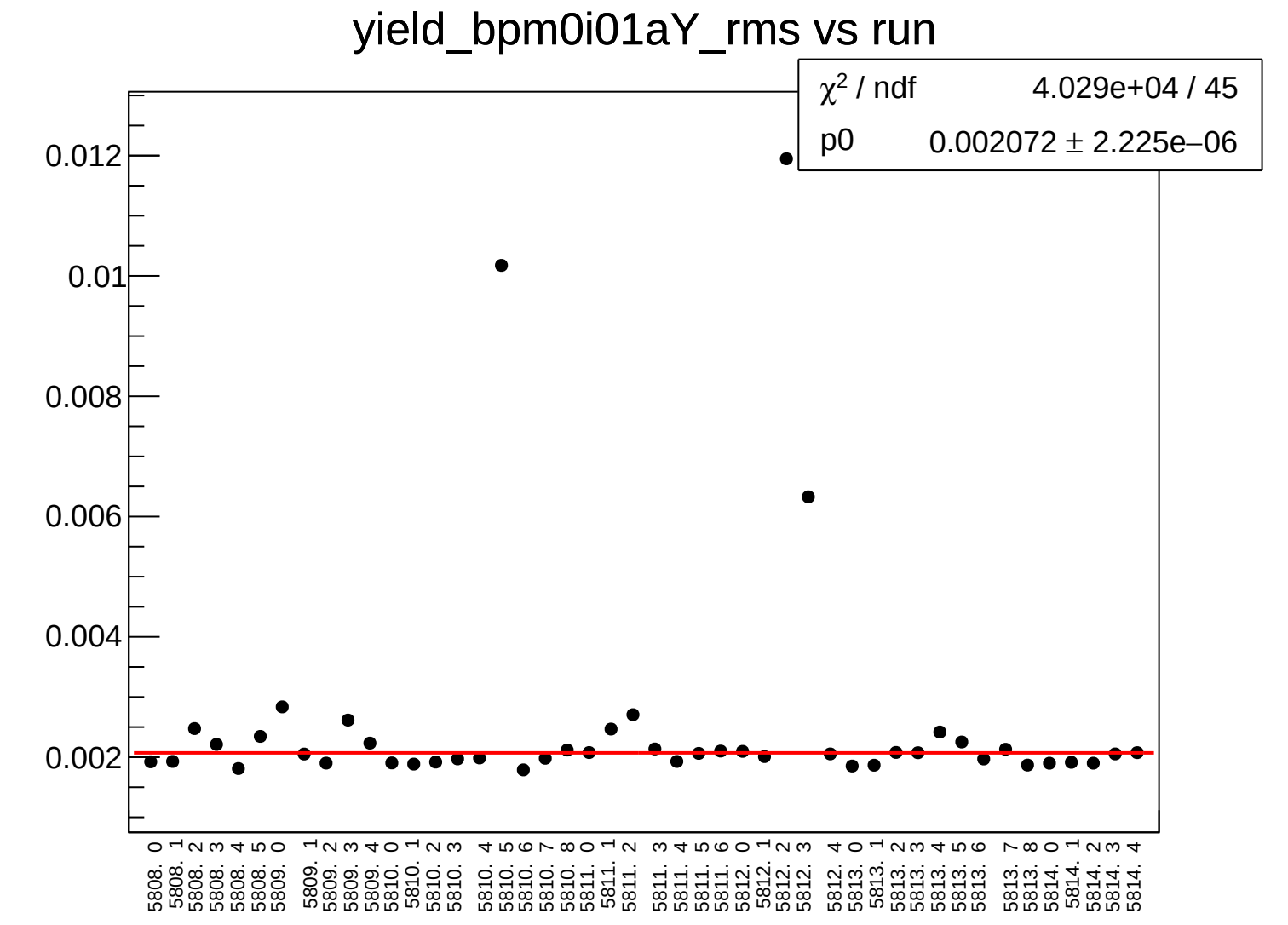

yield_bpm0i01aX_mean vs run
χ² / ndf 1.261e+06 / 45
p0 −2.163 ± 9.992e−06
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 277.3
Std Dev 254
300
200
100
0
−100
−200
−300
−400
−500
−600

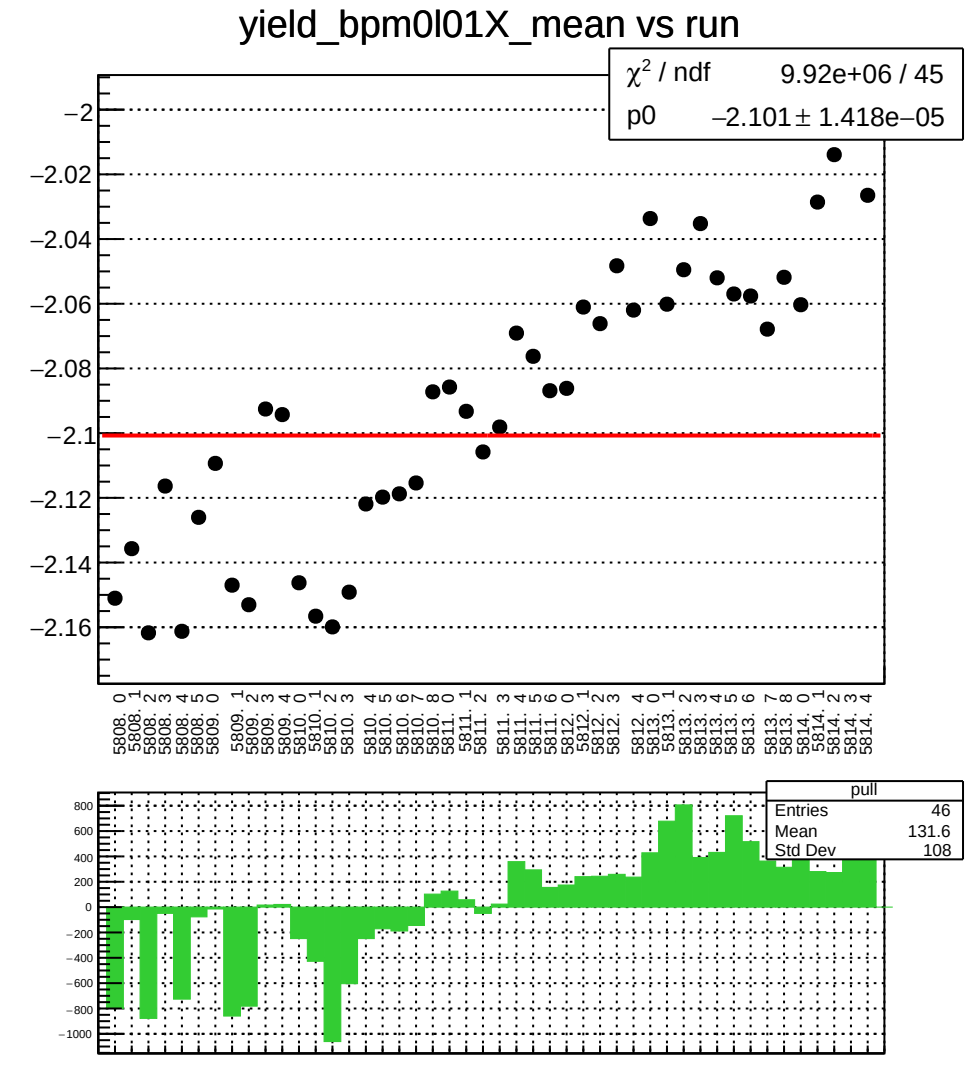

pull1D
Entries 46
Mean 1.567
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

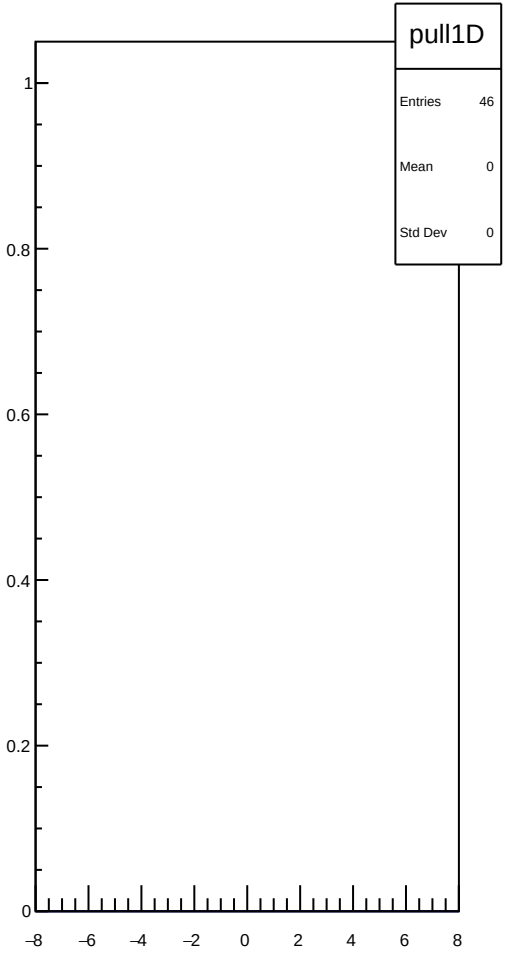

yield_bpm0i01aX_rms vs run
χ² / ndf 2.011e+04 / 45
p0 0.006655 ± 7.065e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

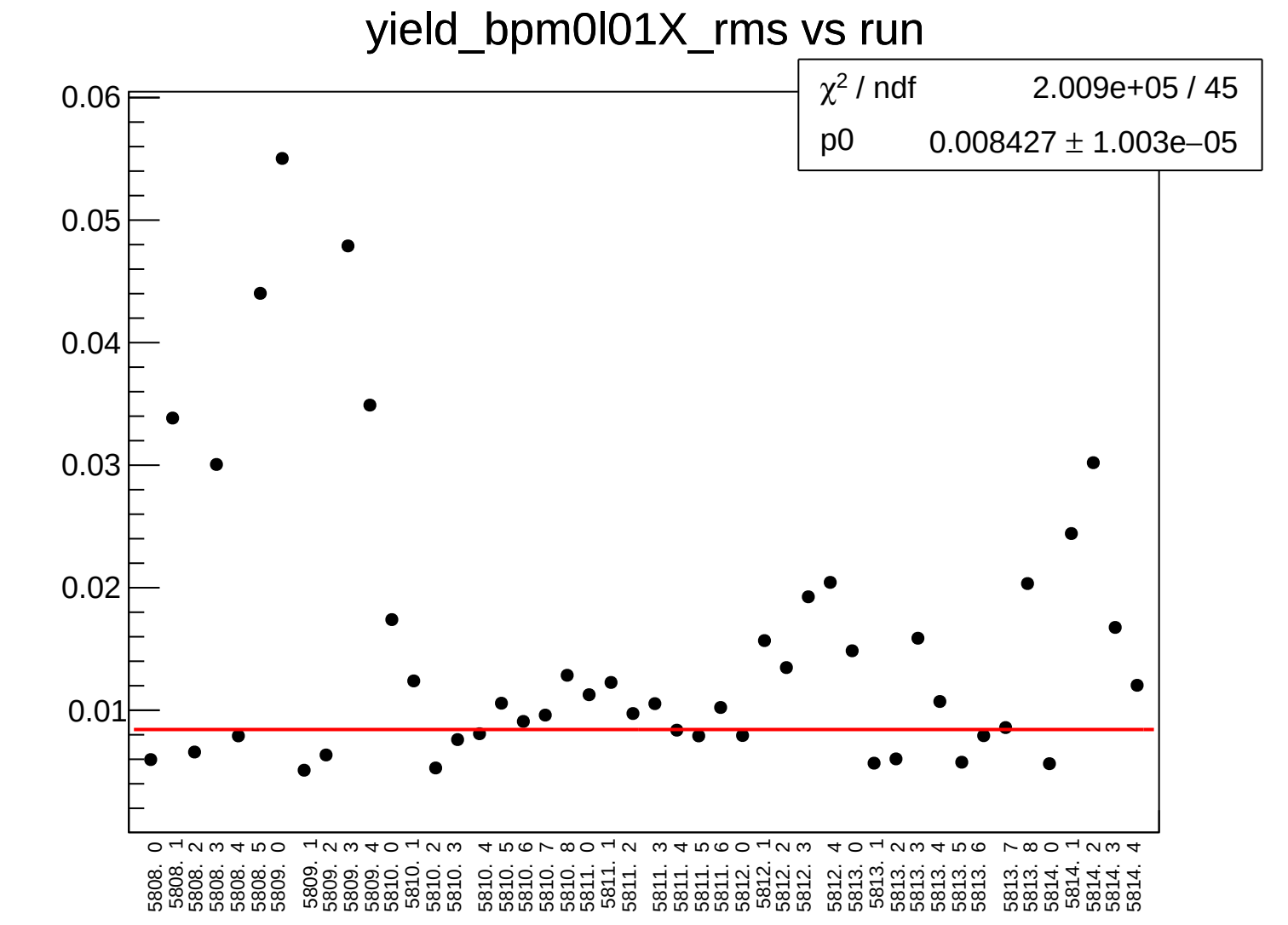

yield_bpm0i01aY_mean vs run
χ² / ndf 4.504e+06 / 45
p0 1.615 ± 3.146e−06
1.63
1.625
1.62
1.615
1.61
1.605
1.6
1.595
pull
Entries 46
Mean 1472
Std Dev 1757
400
200
0
−200
−400
−600
−800
−1000

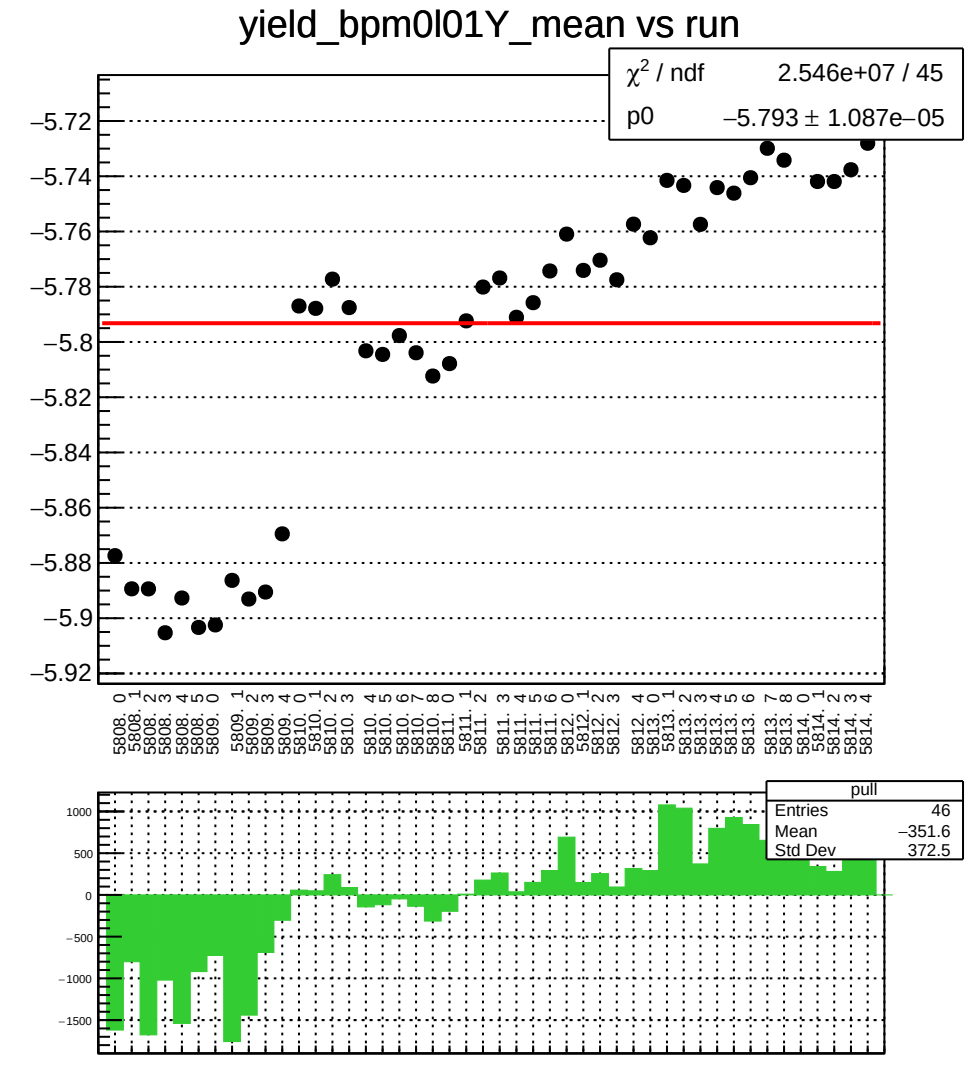

pull1D
Entries 46
Mean 4.058
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

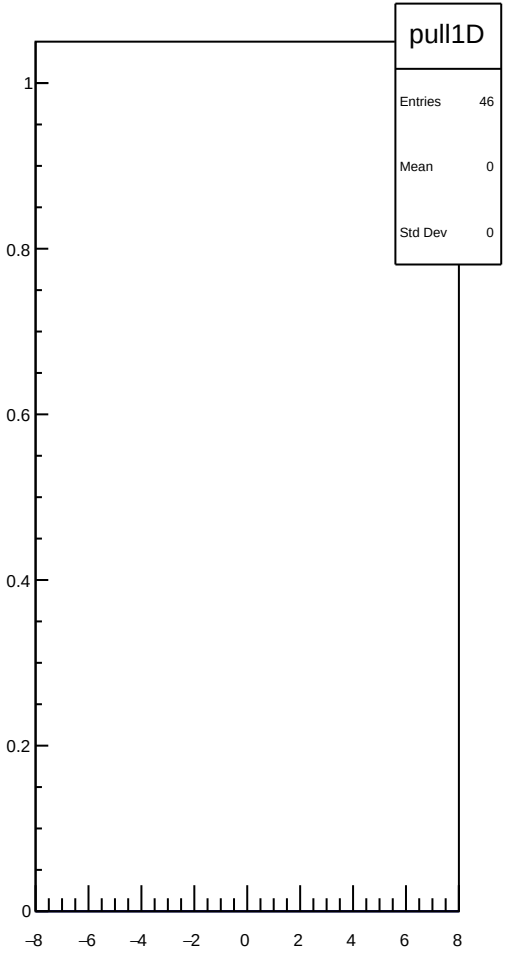

yield_bpm0i01aY_rms vs run
χ² / ndf 4.029e+04 / 45
p0 0.002072 ± 2.225e−06
0.012
0.01
0.008
0.006
0.004
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

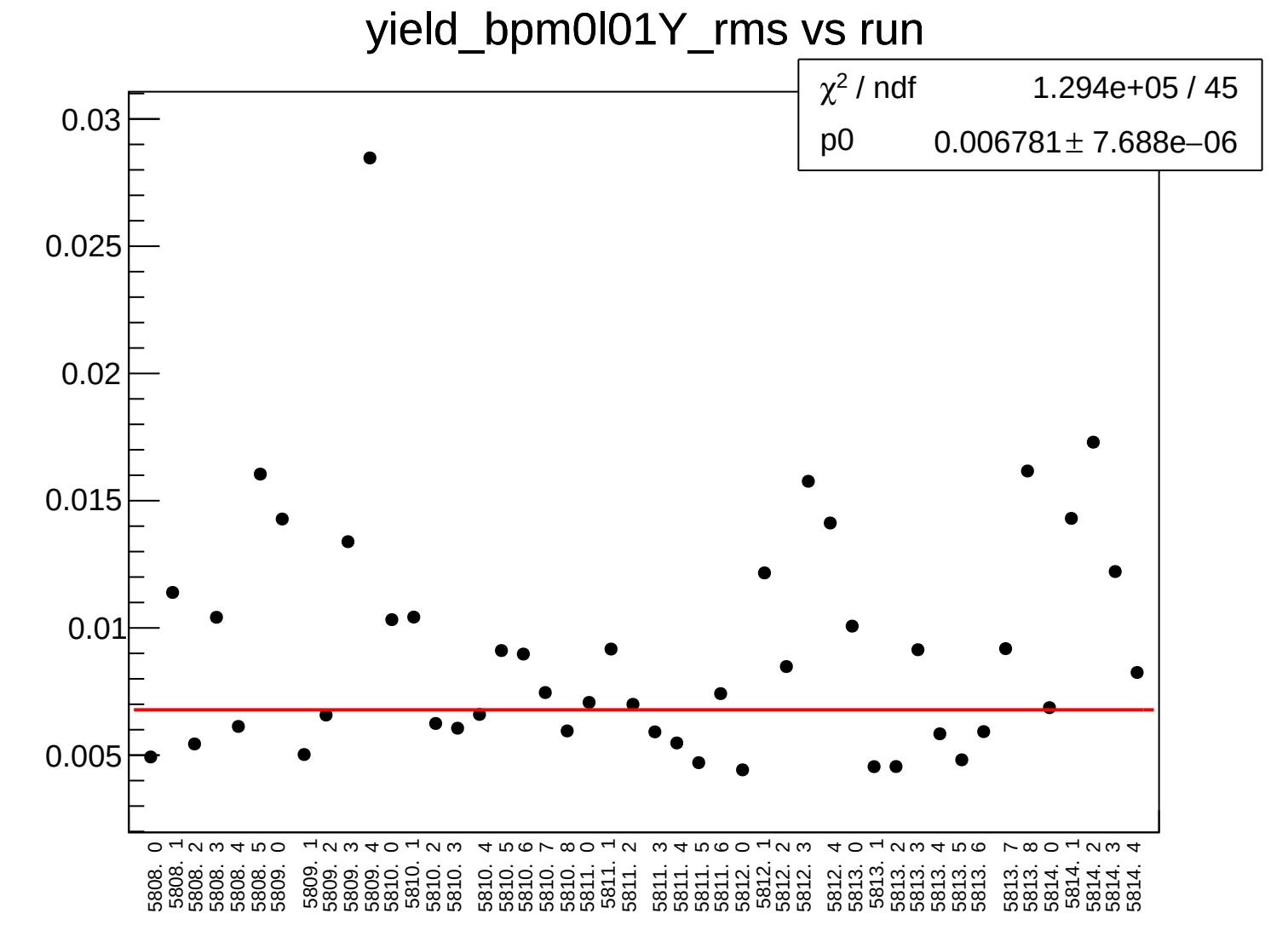

yield_bpm0l01X_mean vs run
χ² / ndf 9.92e+06 / 45
p0 −2.101 ± 1.418e−05
pull
Entries 46
Mean 131.6
Std Dev 108

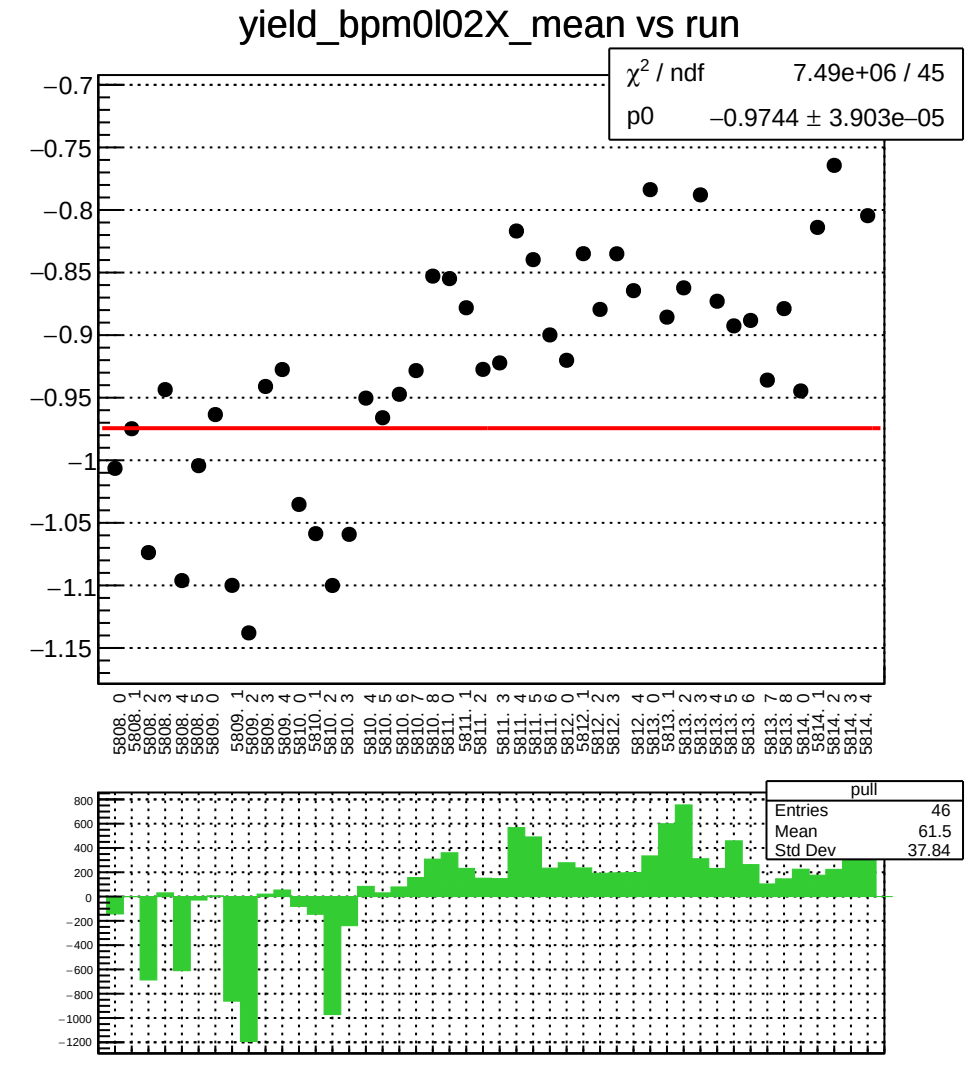

pull1D
Entries 46
Mean 0
Std Dev 0

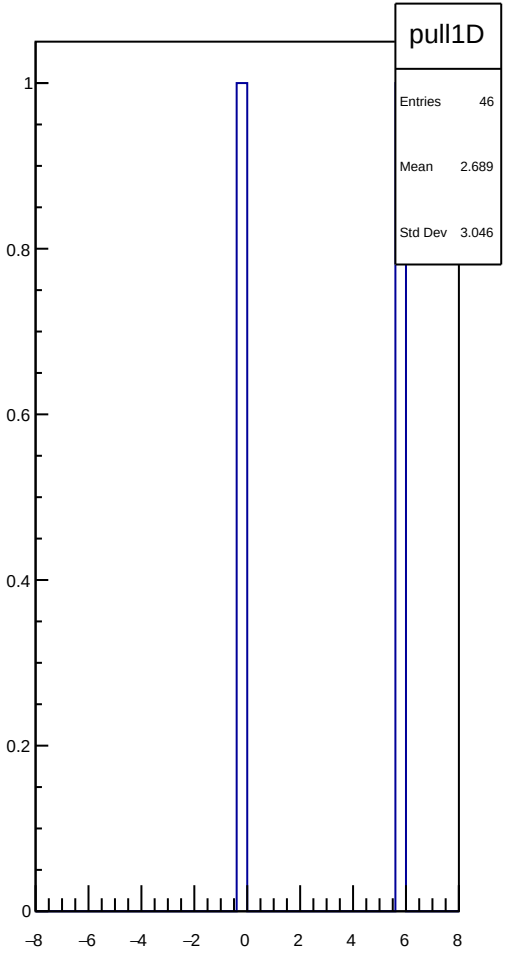

yield_bpm0l01X_rms vs run
χ² / ndf 2.009e+05 / 45
p0 0.008427 ± 1.003e−05
0.06
0.05
0.04
0.03
0.02
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

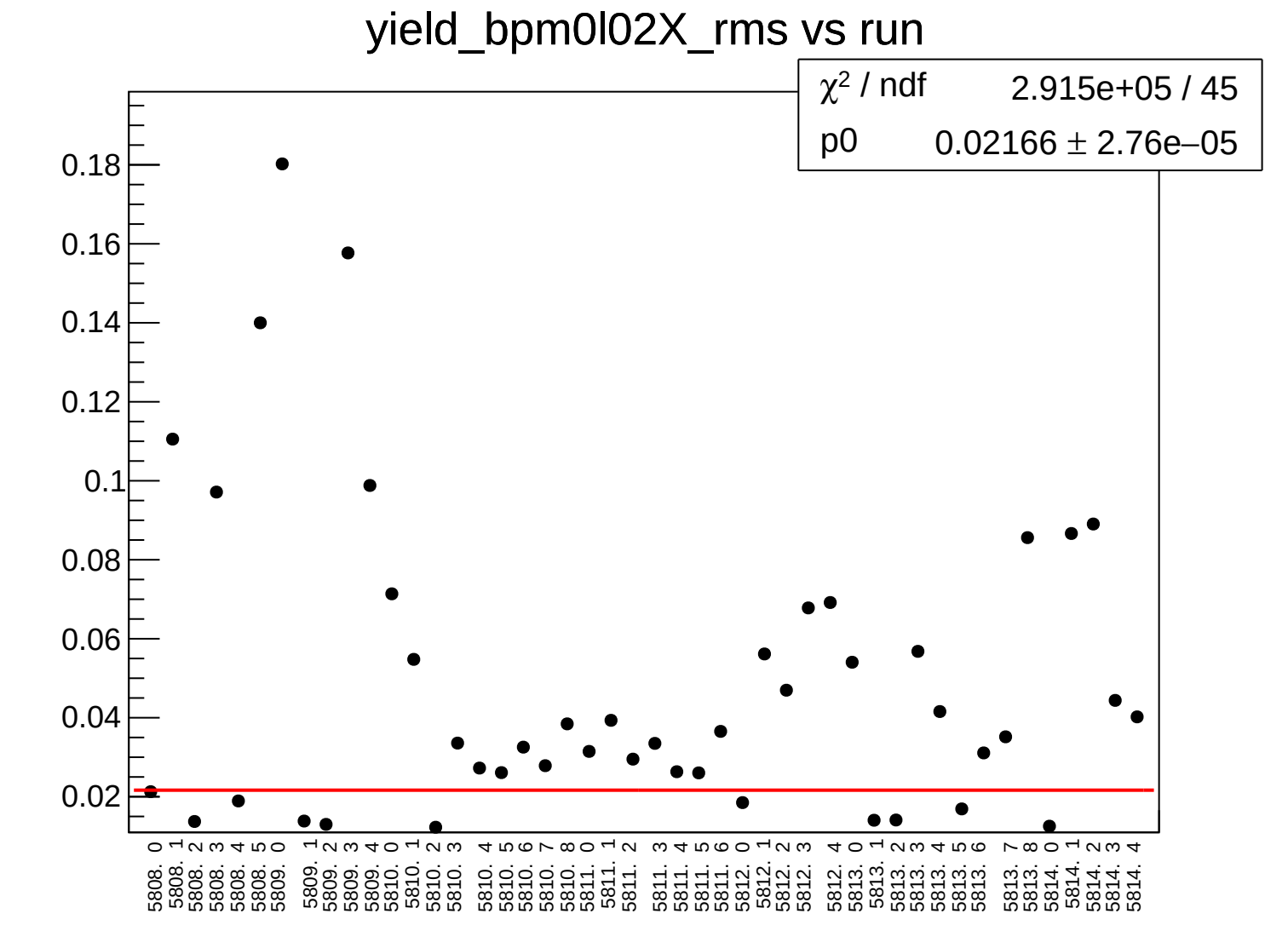

yield_bpm0l01Y_mean vs run
χ² / ndf 2.546e+07 / 45
p0 −5.793 ± 1.087e−05
−5.72
−5.74
−5.76
−5.78
−5.8
−5.82
−5.84
−5.86
−5.88
−5.9
−5.92
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −351.6
Std Dev 372.5
1000
500
0
−500
−1000
−1500

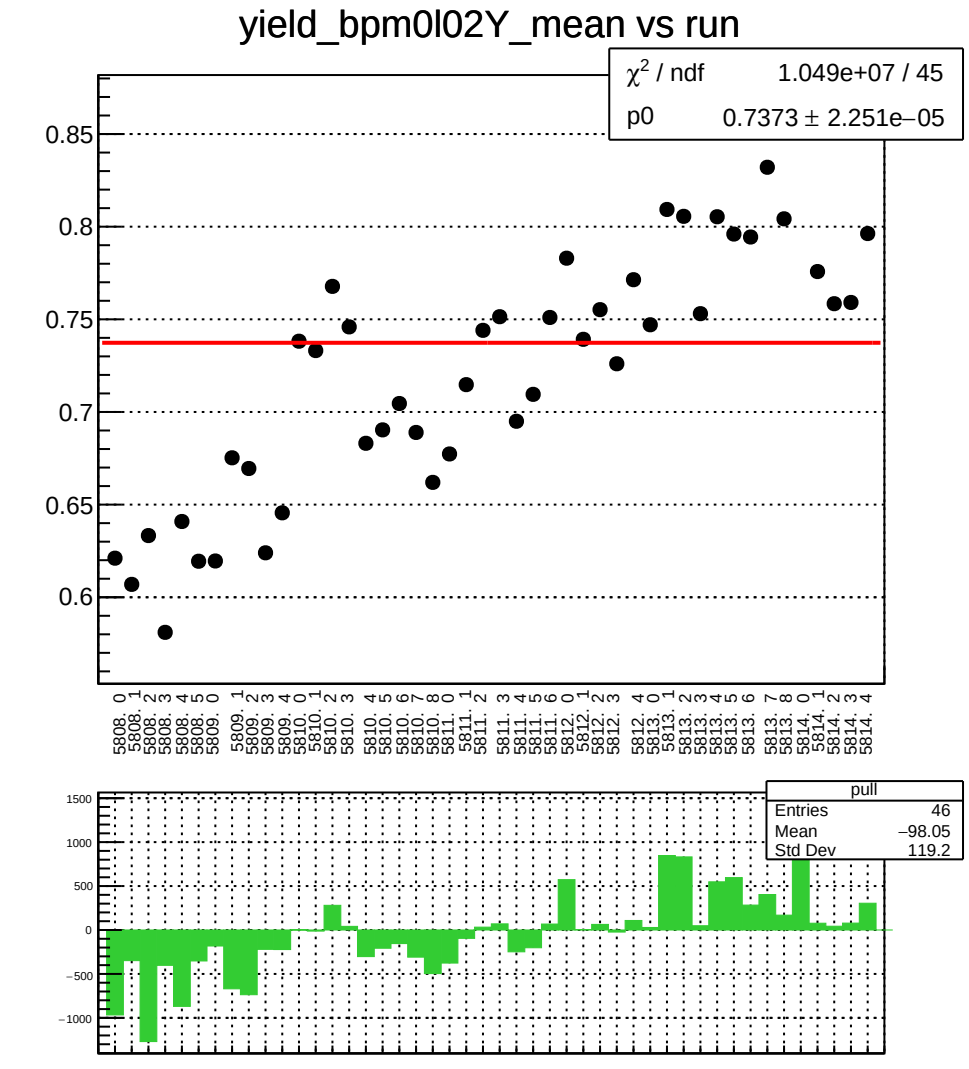

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

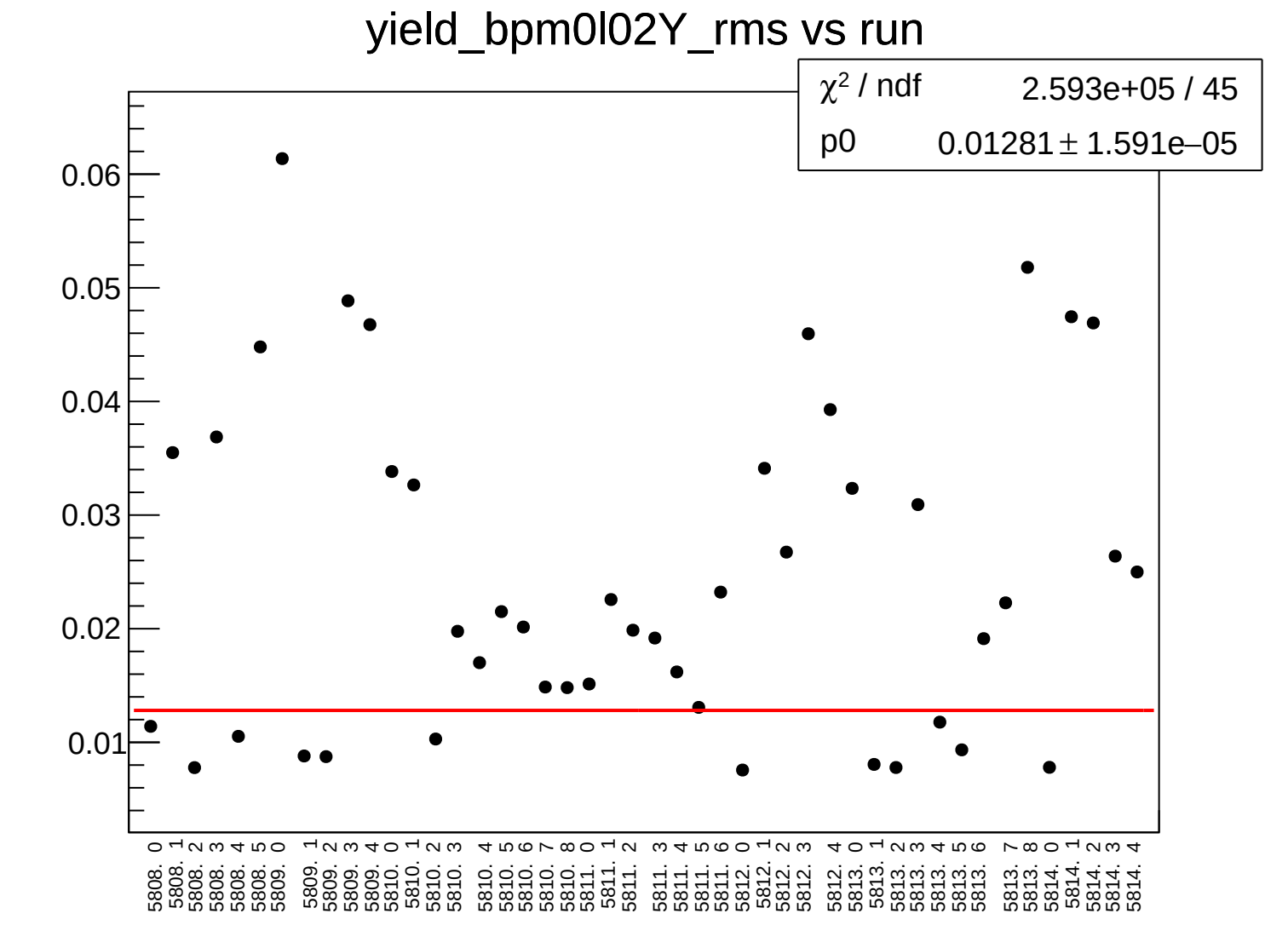

yield_bpm0l01Y_rms vs run
χ² / ndf 1.294e+05 / 45
p0 0.006781 ± 7.688e−06
0.03
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

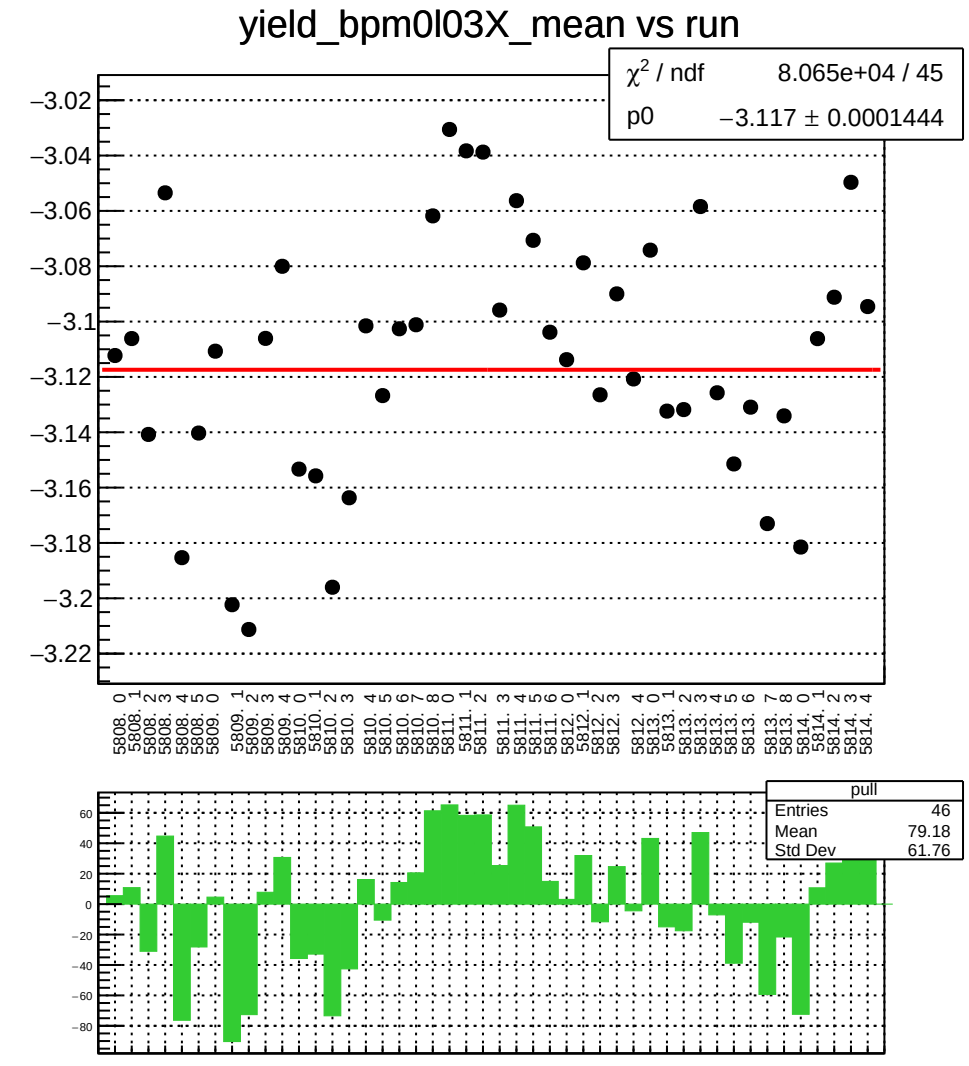

yield_bpm0l02X_mean vs run
χ² / ndf 7.49e+06 / 45
p0 −0.9744 ± 3.903e−05
pull
Entries 46
Mean 61.5
Std Dev 37.84

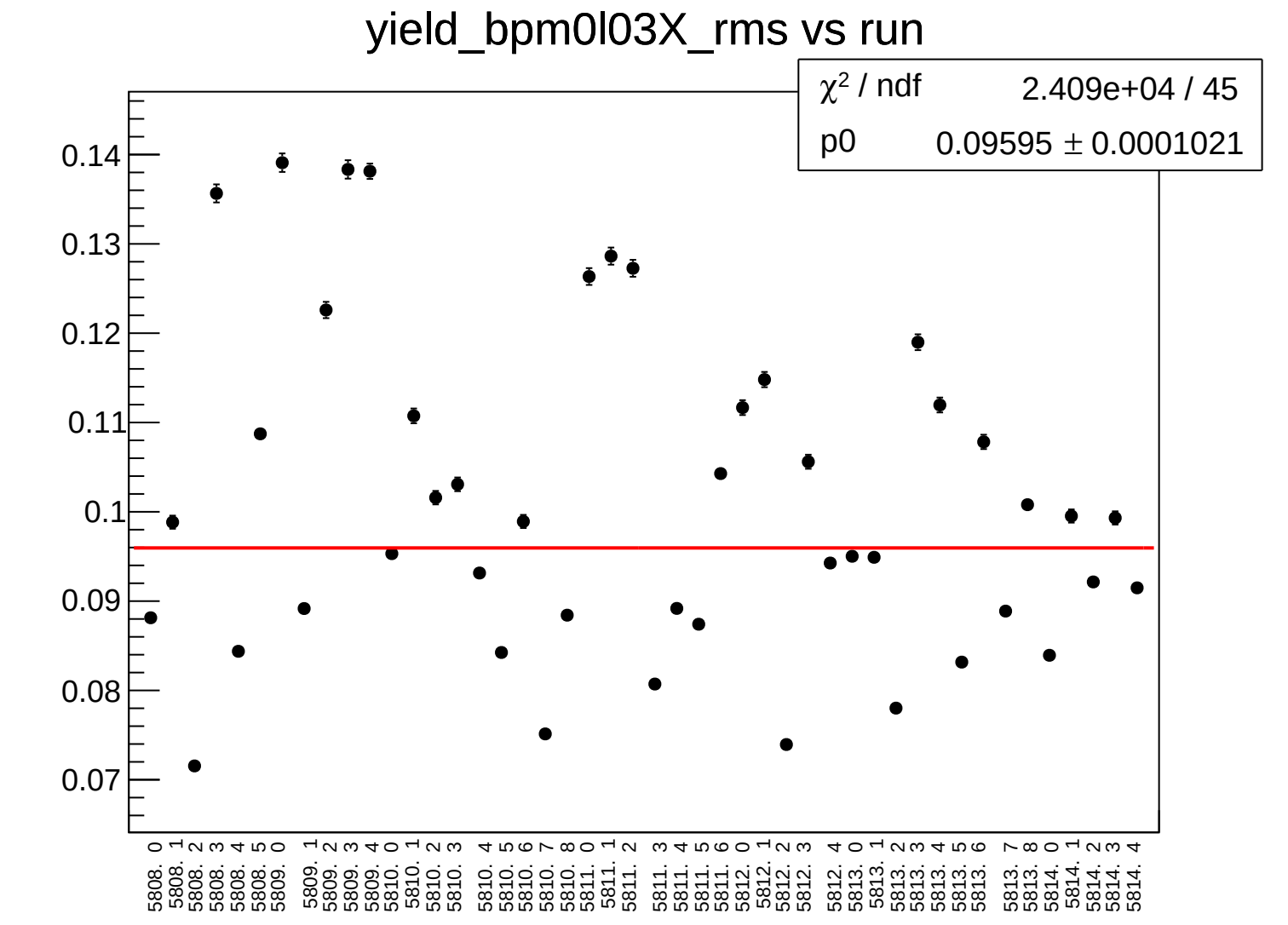

pull1D
Entries 46
Mean 2.689
Std Dev 3.046

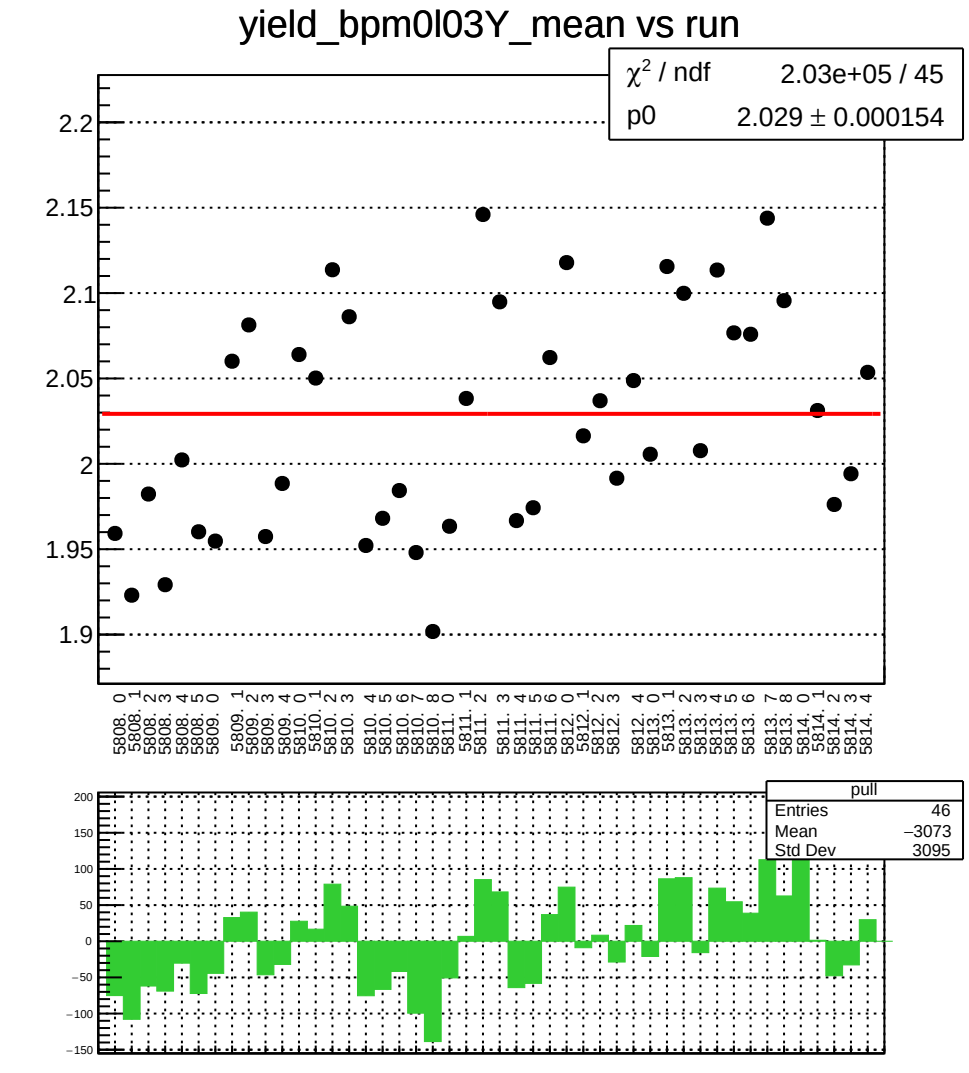

yield_bpm0l02X_rms vs run
χ² / ndf 2.915e+05 / 45
p0 0.02166 ± 2.76e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

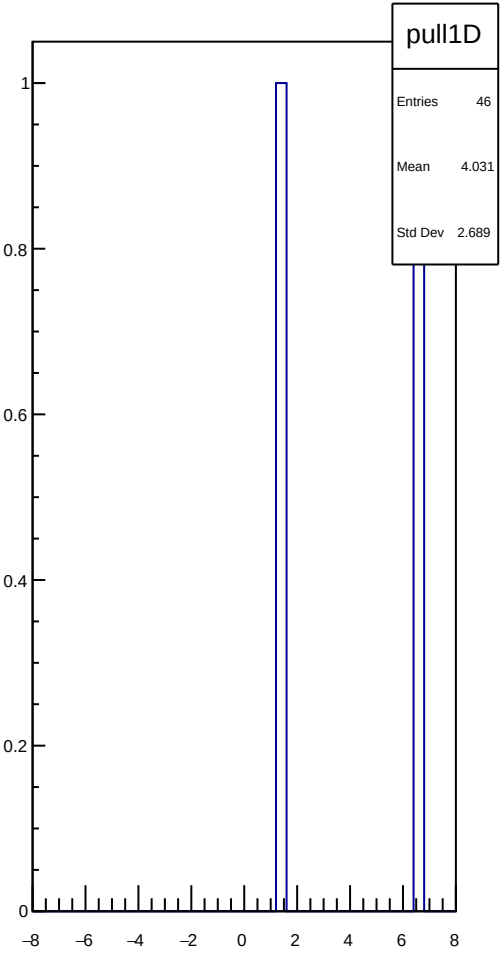

yield_bpm0l02Y_mean vs run
χ² / ndf 1.049e+07 / 45
p0 0.7373 ± 2.251e−05
0.85
0.8
0.75
0.7
0.65
0.6
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −98.05
Std Dev 119.2
1500
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 3.79
Std Dev 1.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

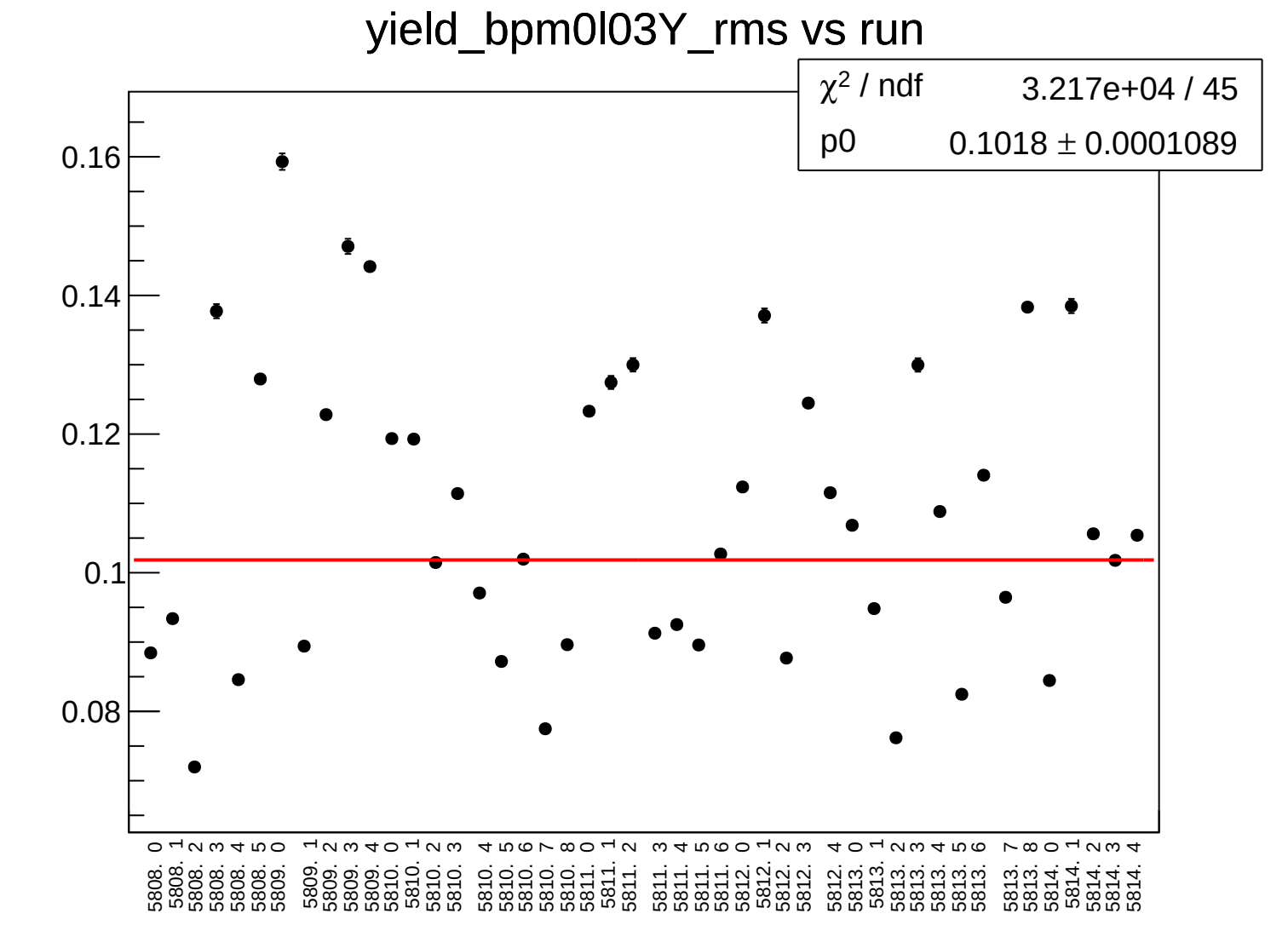

yield_bpm0l02Y_rms vs run
χ² / ndf 2.593e+05 / 45
p0 0.01281 ± 1.591e–05
0.06
0.05
0.04
0.03
0.02
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

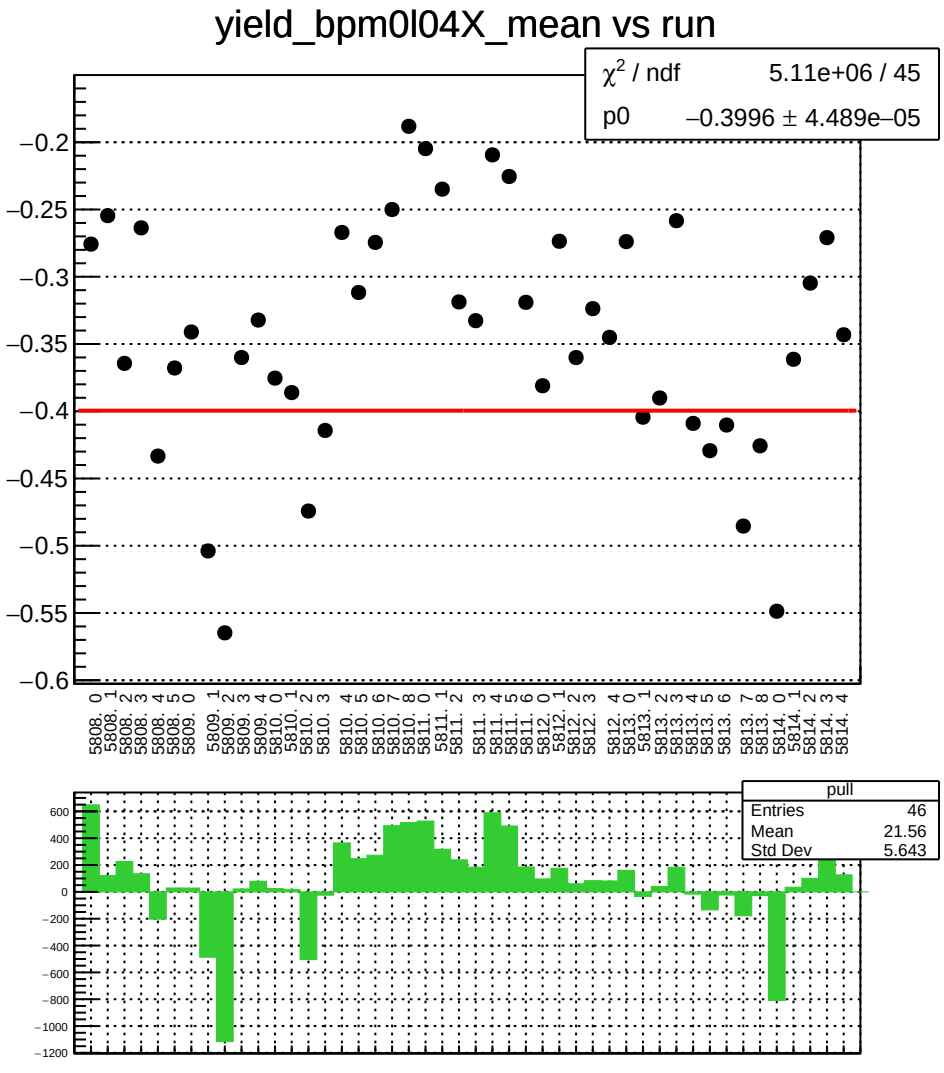

yield_bpm0l03X_mean vs run
χ² / ndf 8.065e+04 / 45
p0 −3.117 ± 0.0001444
−3.02
−3.04
−3.06
−3.08
−3.1
−3.12
−3.14
−3.16
−3.18
−3.2
−3.22
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 79.18
Std Dev 61.76
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean 1.592
Std Dev 5.409
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

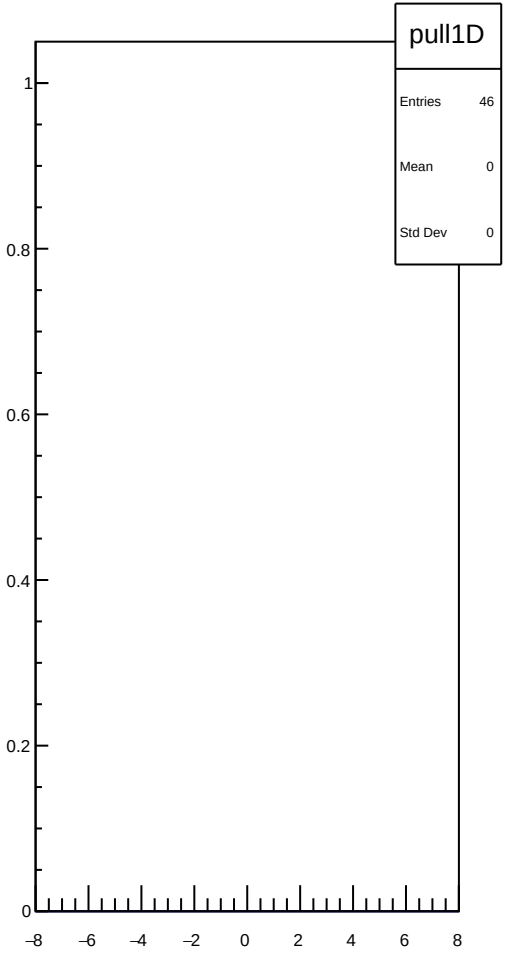

yield_bpm0l03X_rms vs run
χ² / ndf 2.409e+04 / 45
p0 0.09595 ± 0.0001021
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

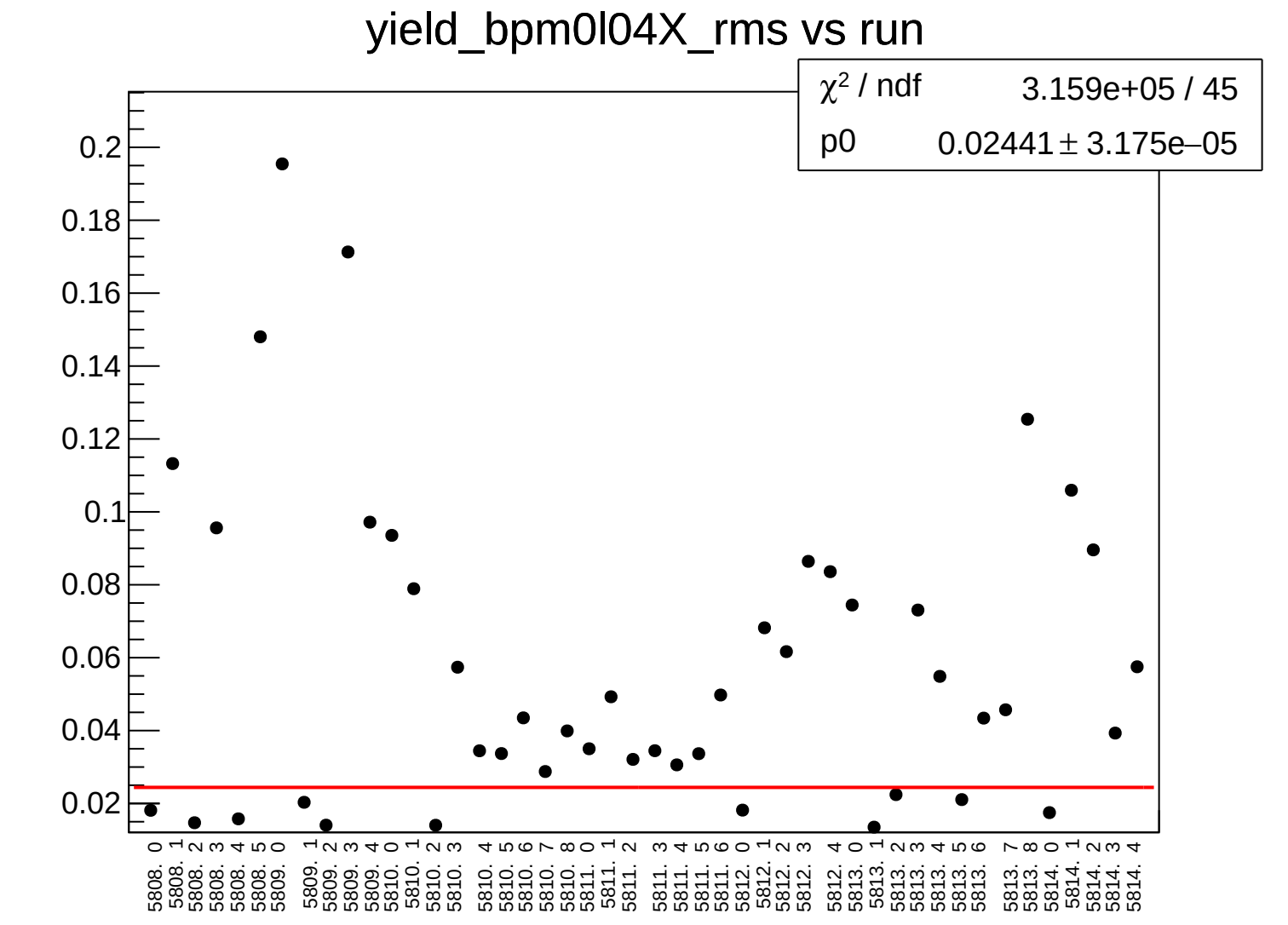

yield_bpm0l03Y_mean vs run
χ² / ndf 2.03e+05 / 45
p0 2.029 ± 0.000154
2.2
2.15
2.1
2.05
2
1.95
1.9
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −3073
Std Dev 3095
200
150
100
50
0
−50
−100
−150

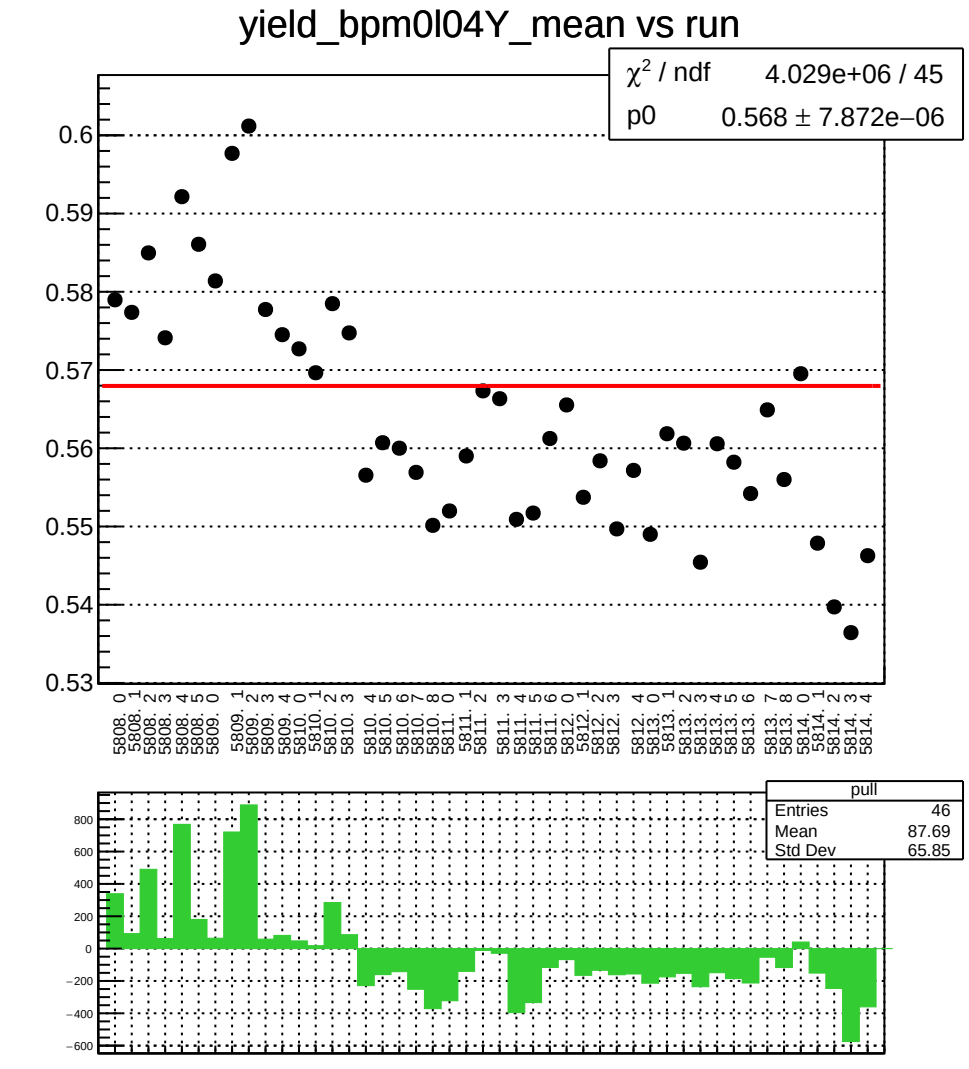

pull1D
Entries 46
Mean 4.031
Std Dev 2.689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

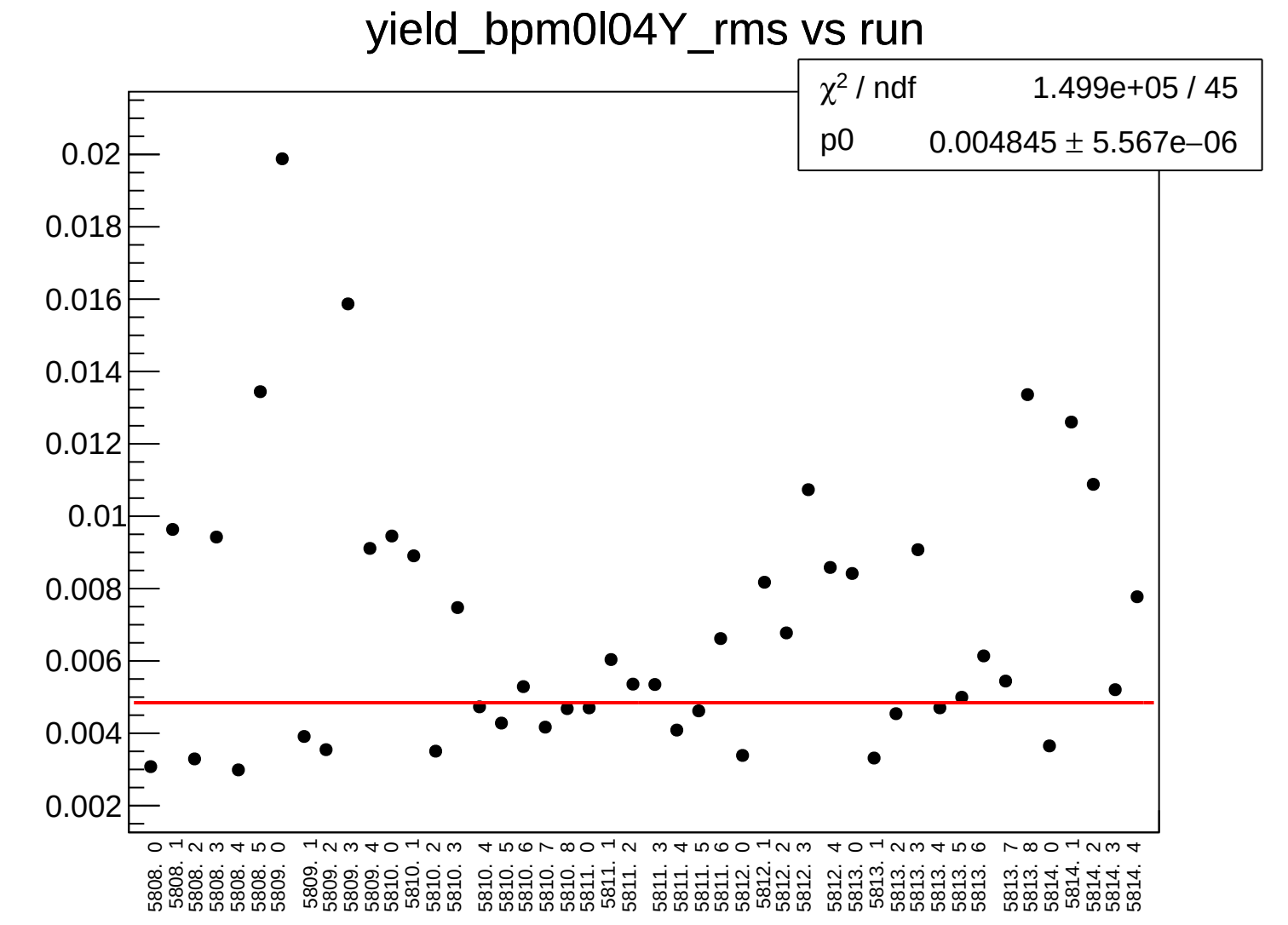

yield_bpm0l03Y_rms vs run
χ² / ndf 3.217e+04 / 45
p0 0.1018 ± 0.0001089
0.16
0.14
0.12
0.1
0.08
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

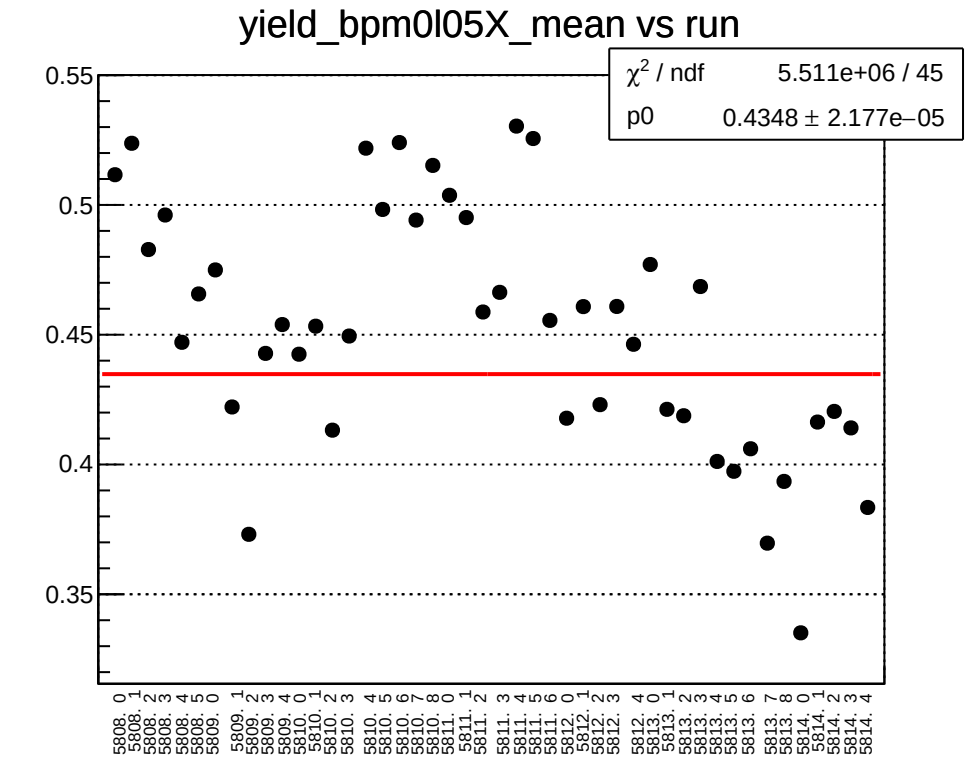

yield_bpm0l04X_mean vs run
χ² / ndf 5.11e+06 / 45
p0 −0.3996 ± 4.489e−05
pull
Entries 46
Mean 21.56
Std Dev 5.643

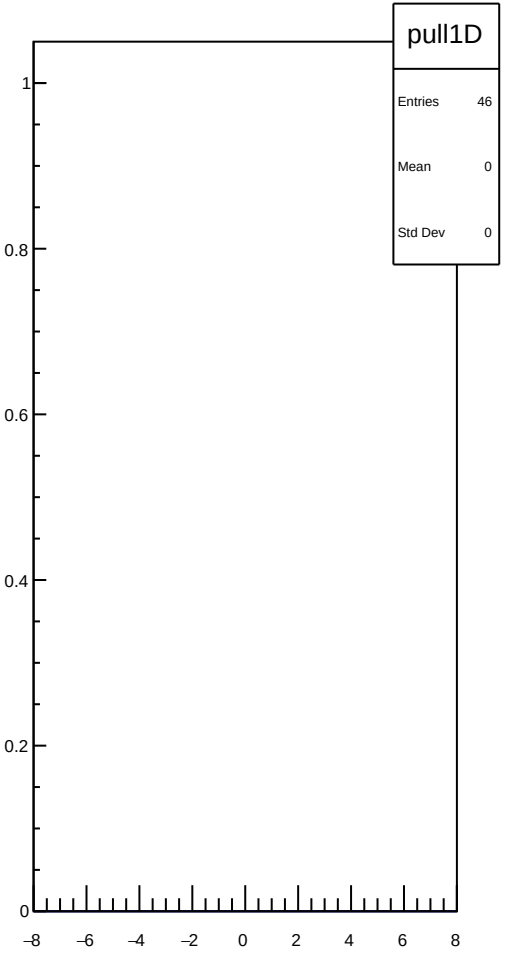

pull1D
Entries 46
Mean 0
Std Dev 0

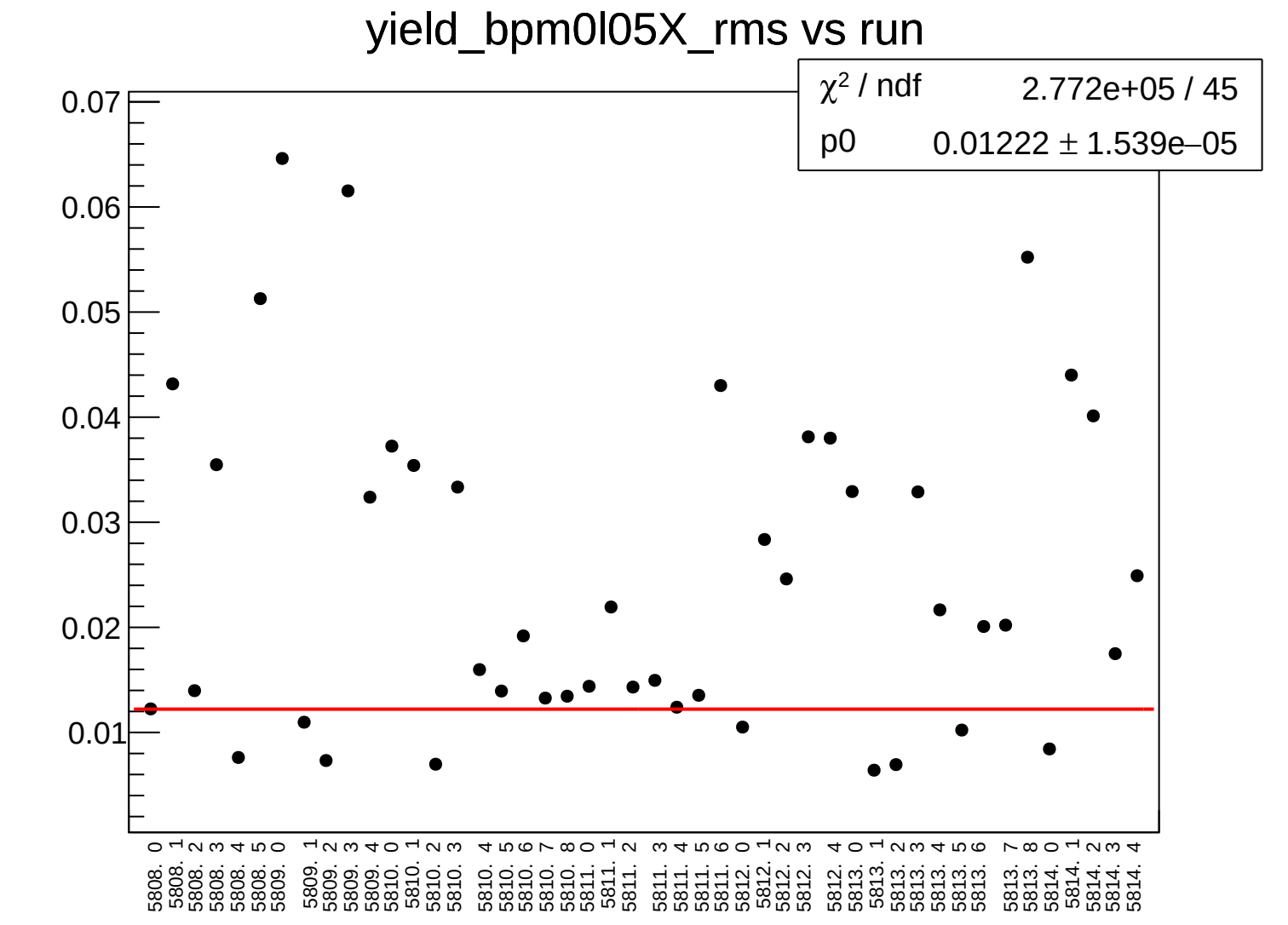

yield_bpm0l04X_rms vs run
χ² / ndf 3.159e+05 / 45
p0 0.02441 ± 3.175e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

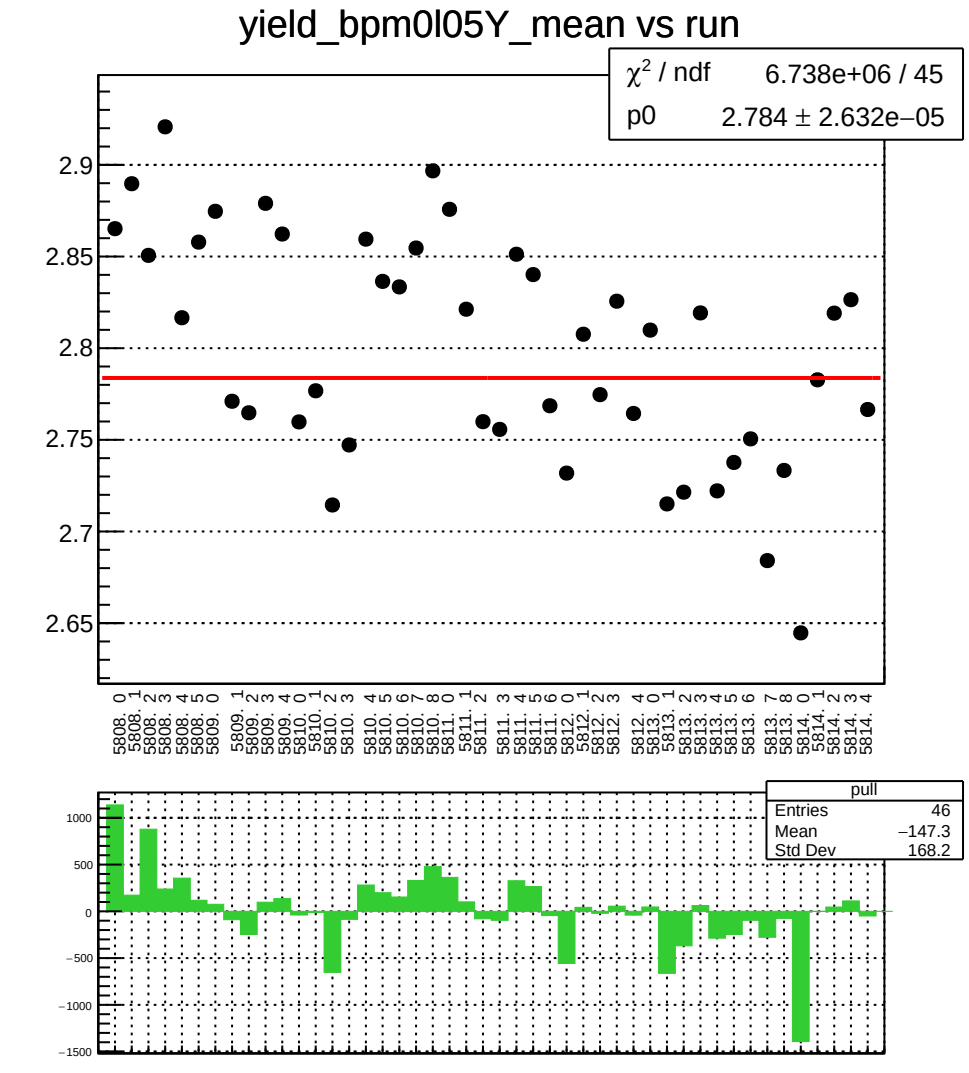

yield_bpm0l04Y_mean vs run
χ² / ndf 4.029e+06 / 45
p0 0.568 ± 7.872e−06
0.6
0.59
0.58
0.57
0.56
0.55
0.54
0.53
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 87.69
Std Dev 65.85
800
600
400
200
0
−200
−400
−600
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

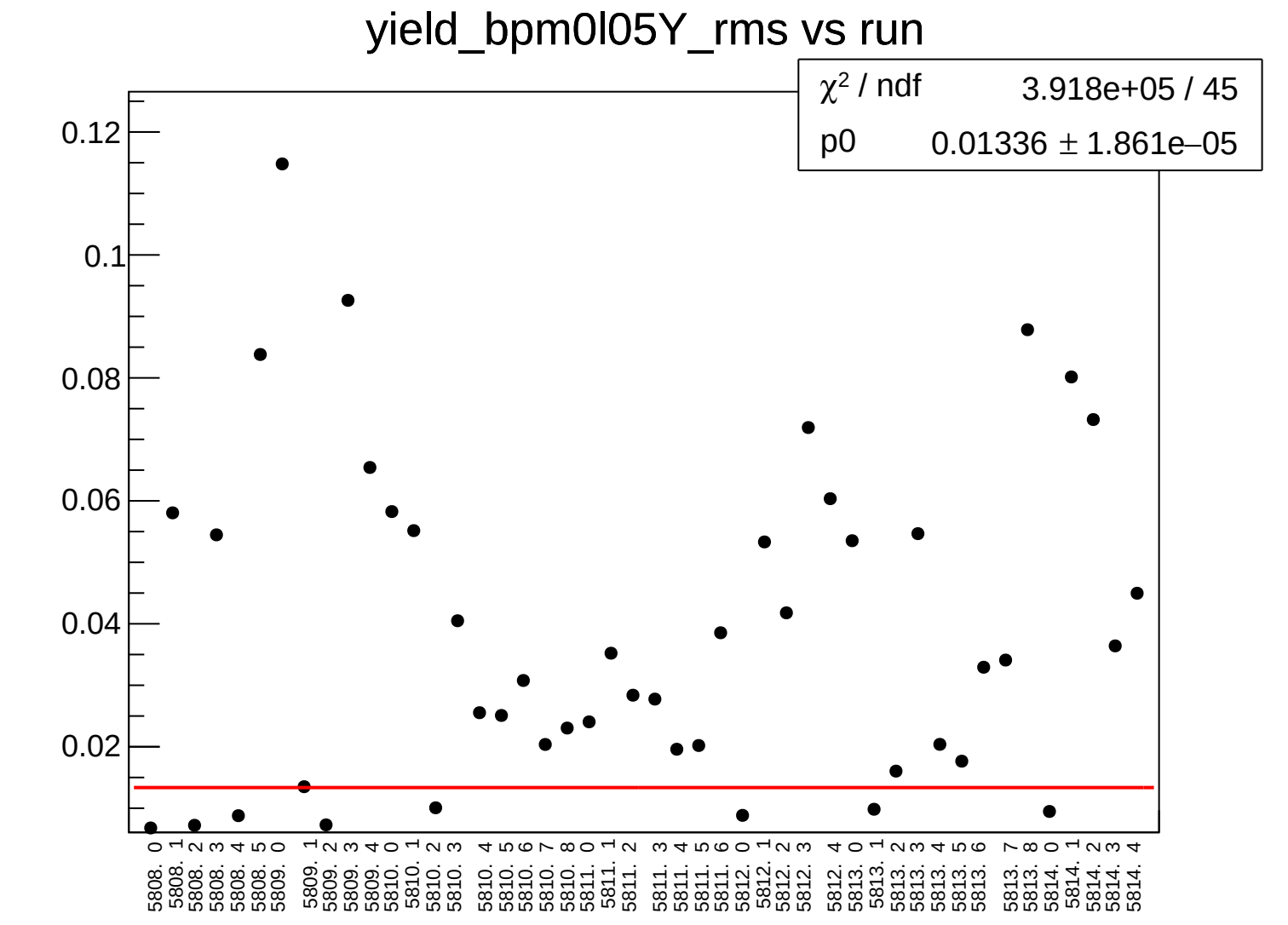

yield_bpm0l04Y_rms vs run
χ² / ndf 1.499e+05 / 45
p0 0.004845 ± 5.567e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm0l05X_mean vs run
χ² / ndf 5.511e+06 / 45
p0 0.4348 ± 2.177e−05
0.55
0.5
0.45
0.4
0.35
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −6.909
Std Dev 31.71
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200


pull1D
Entries 46
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 2.772e+05 / 45
p0 0.01222 ± 1.539e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm0l05Y_mean vs run
χ² / ndf 6.738e+06 / 45
p0 2.784 ± 2.632e−05
2.9
2.85
2.8
2.75
2.7
2.65
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −147.3
Std Dev 168.2
1000
500
0
−500
−1000
−1500
pull1D
Entries 46
Mean −1.199
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l05Y_rms vs run
χ² / ndf 3.918e+05 / 45
p0 0.01336 ± 1.861e–05
0.12
0.1
0.08
0.06
0.04
0.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
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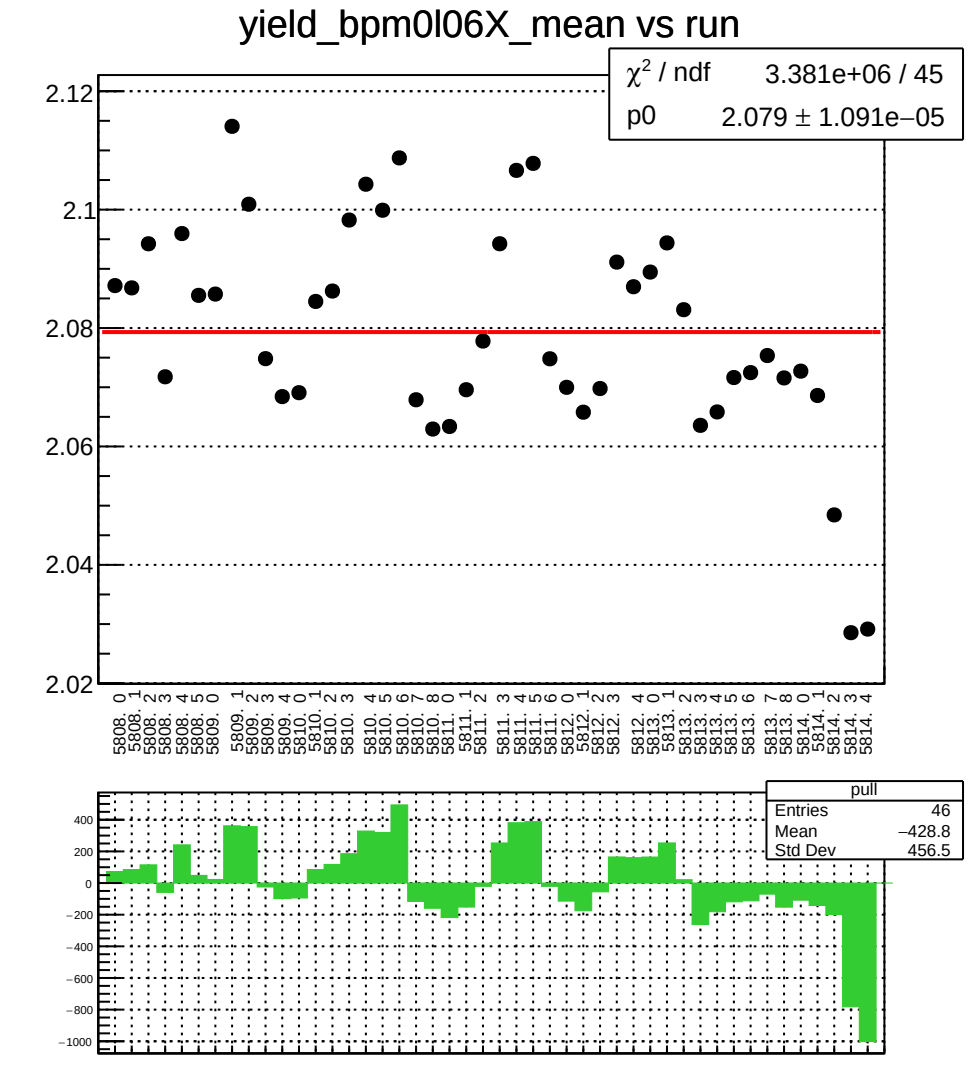
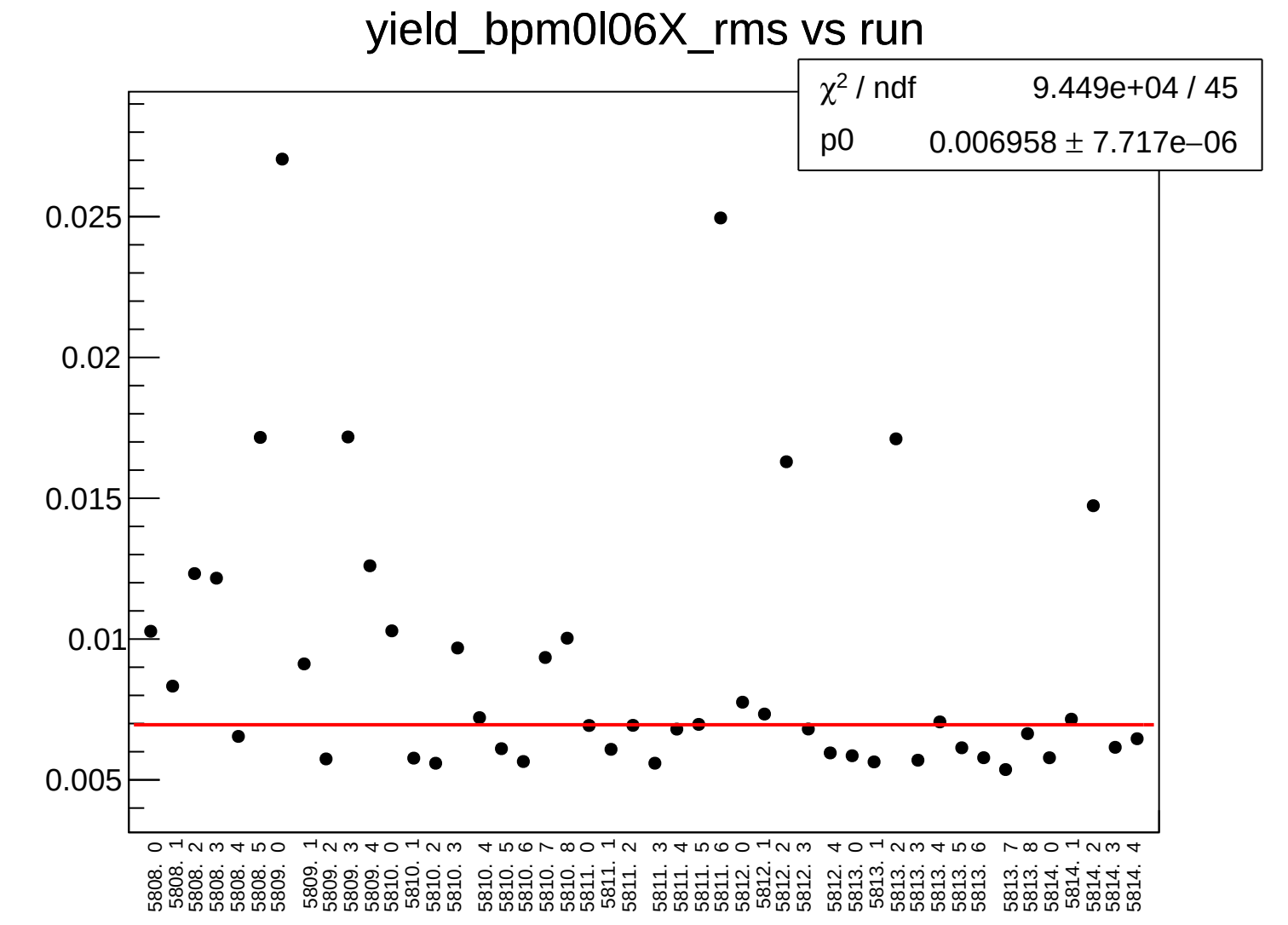
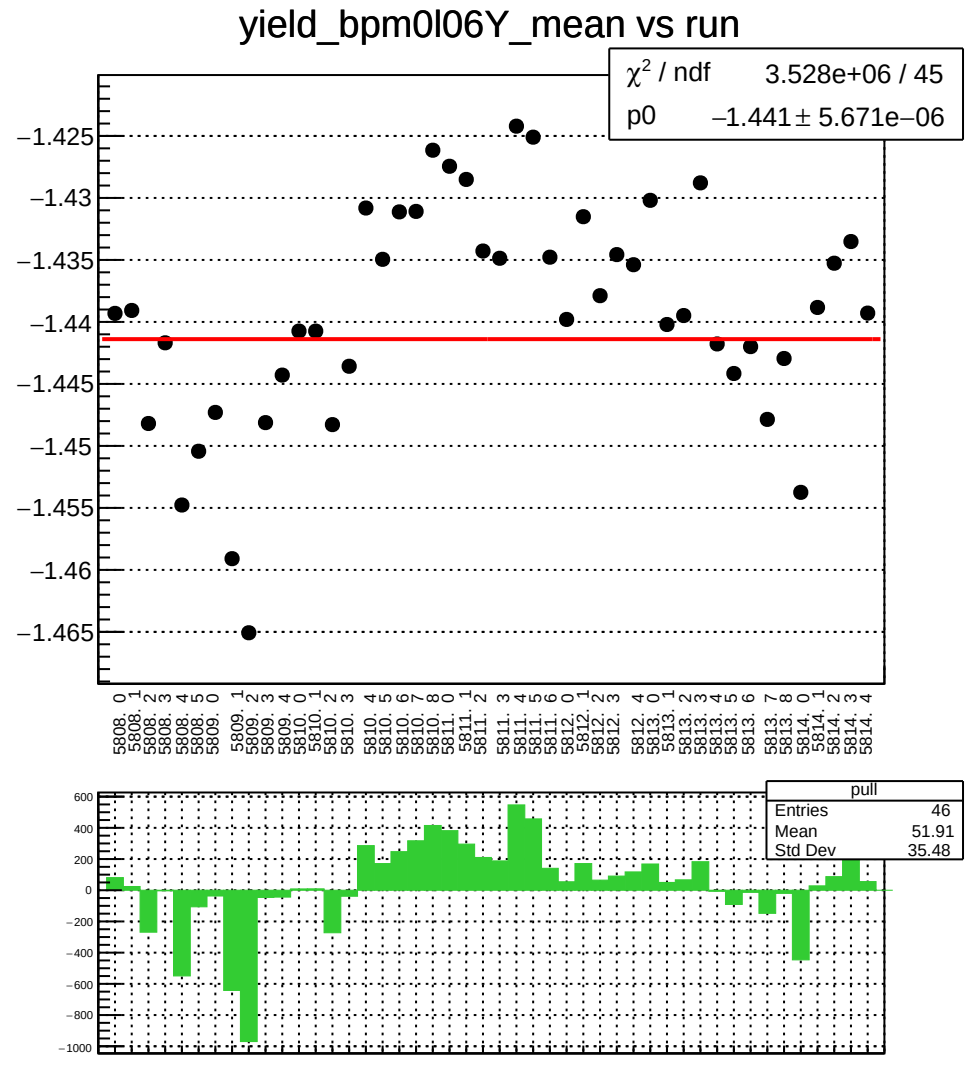
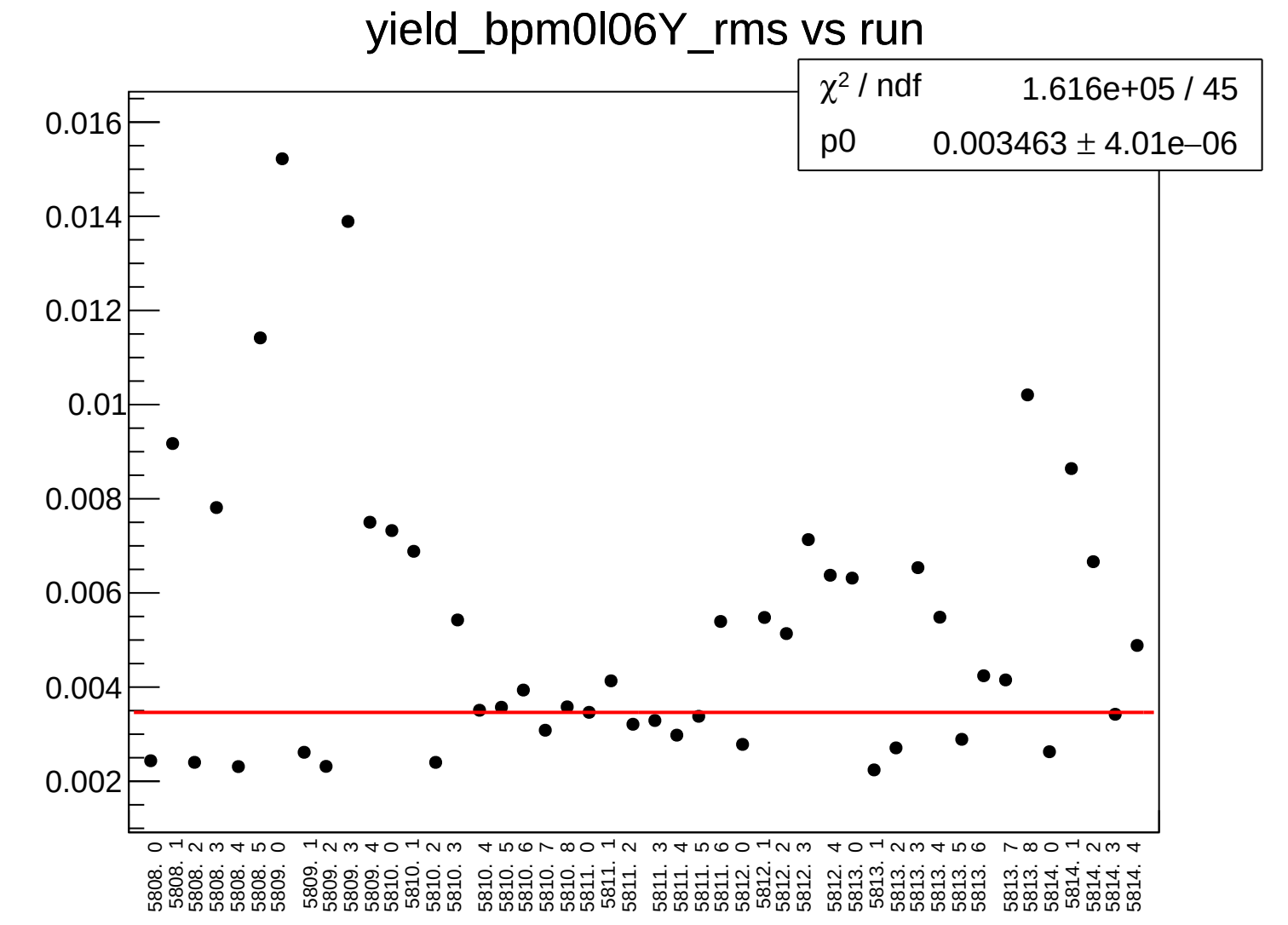
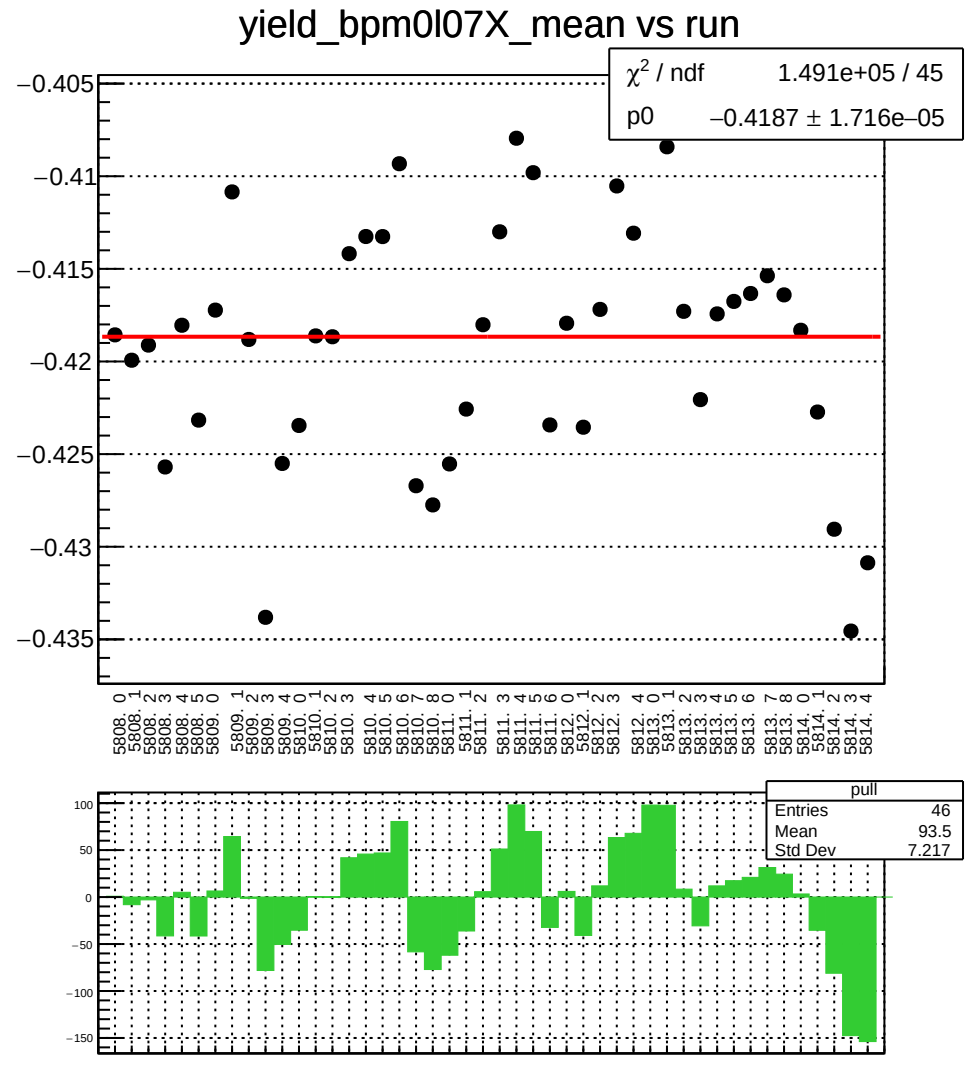
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

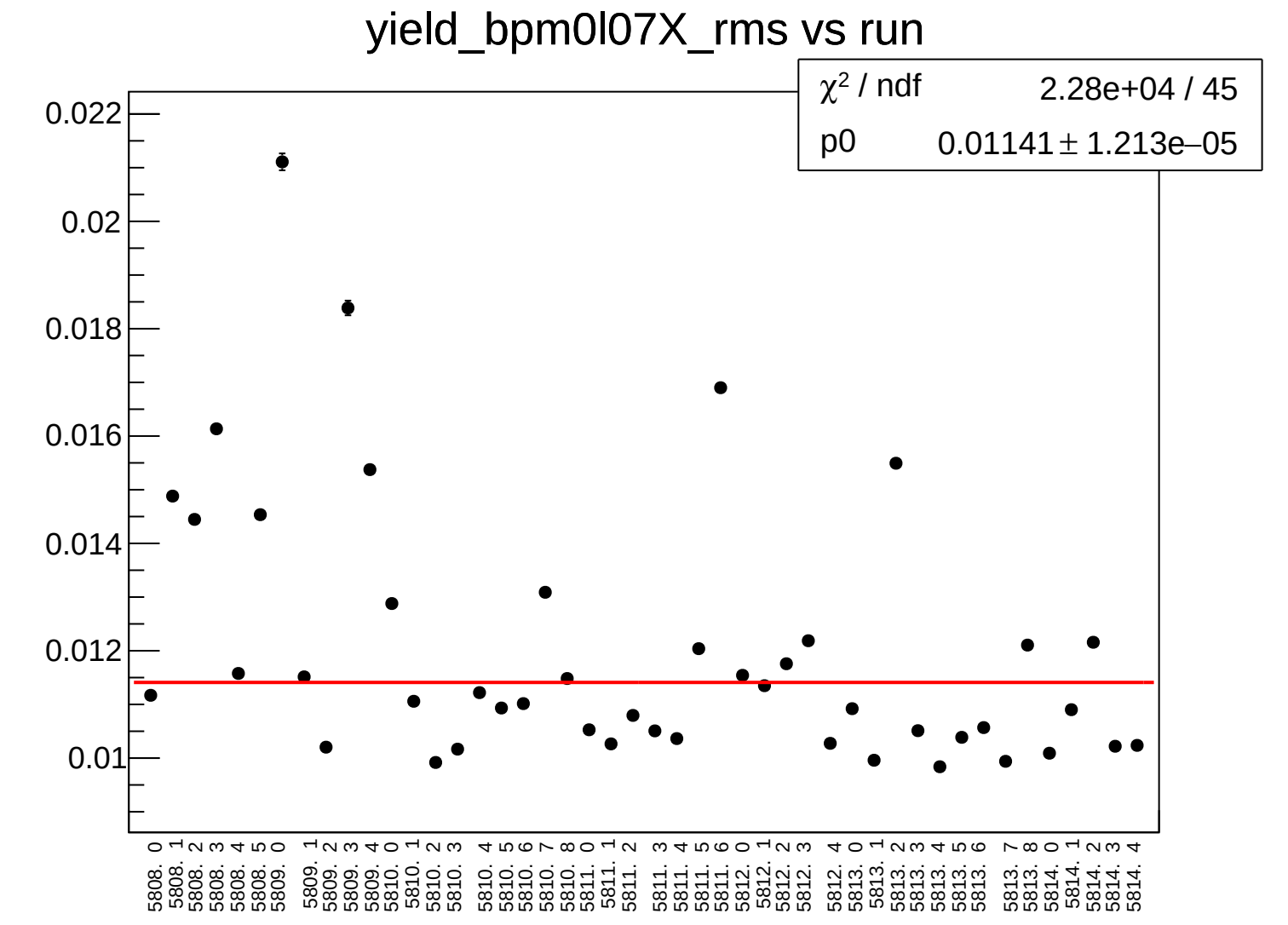

yield_bpm0l06X_mean vs run
χ² / ndf 3.381e+06 / 45
p0 2.079 ± 1.091e−05
2.12
2.1
2.08
2.06
2.04
2.02
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −428.8
Std Dev 456.5
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

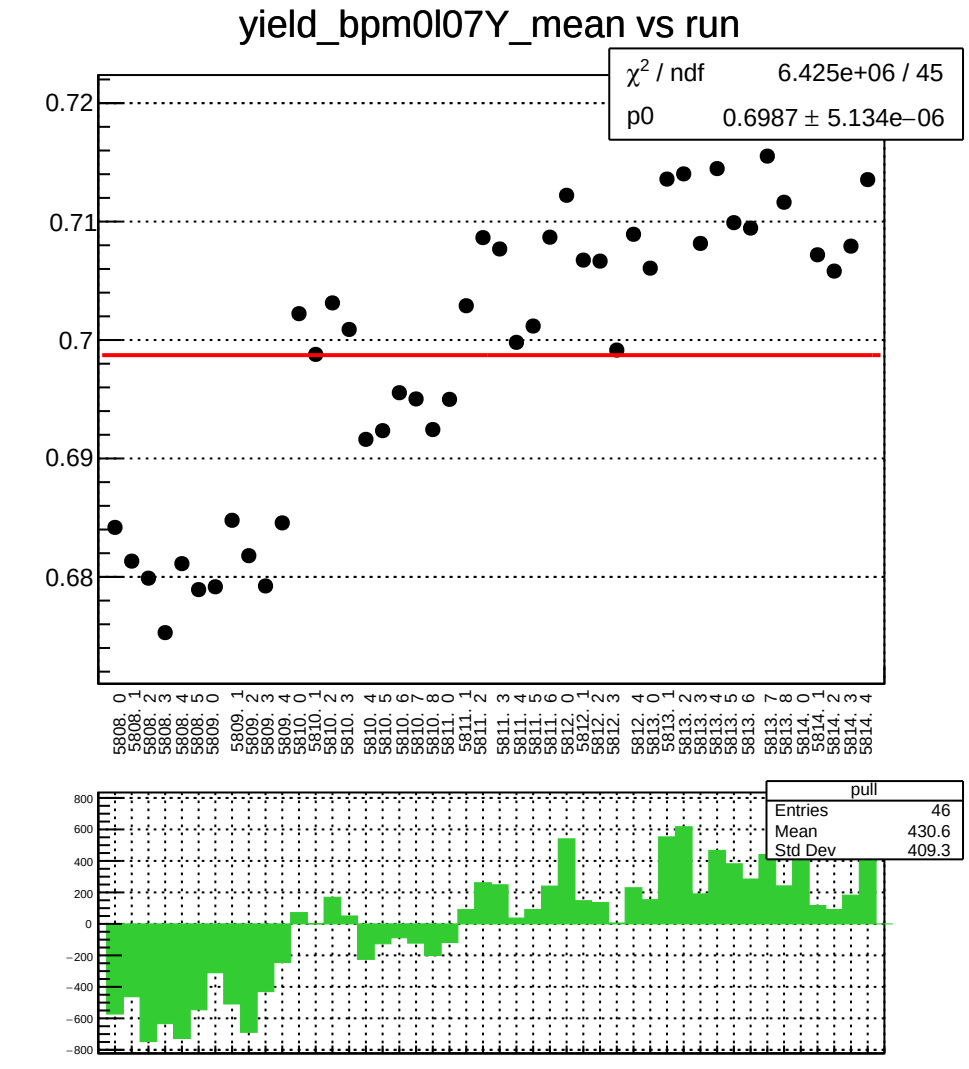

yield_bpm0l06X_rms vs run
χ² / ndf 9.449e+04 / 45
p0 0.006958 ± 7.717e−06
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

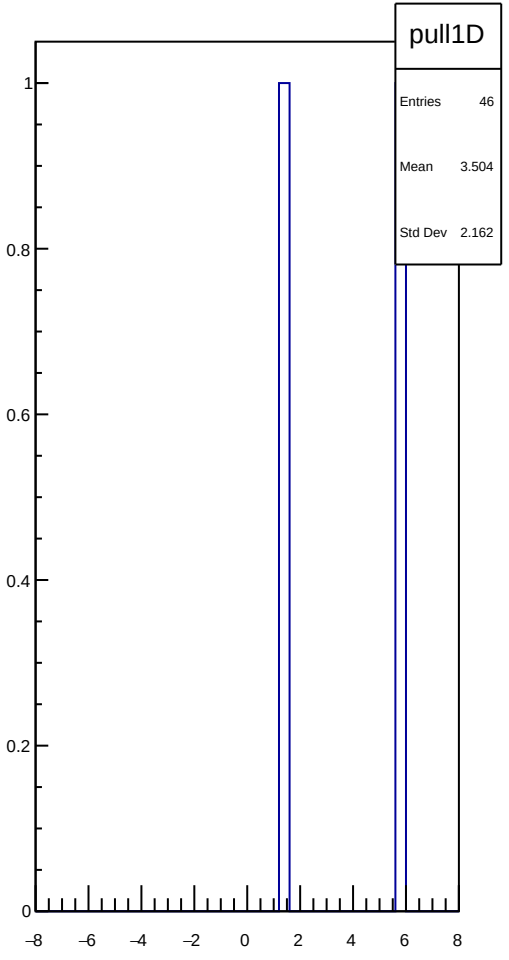

yield_bpm0l06Y_mean vs run
χ² / ndf 3.528e+06 / 45
p0 −1.441 ± 5.671e−06
−1.425
−1.43
−1.435
−1.44
−1.445
−1.45
−1.455
−1.46
−1.465
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 51.91
Std Dev 35.48
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 46
Mean −5.141
Std Dev 1.55
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

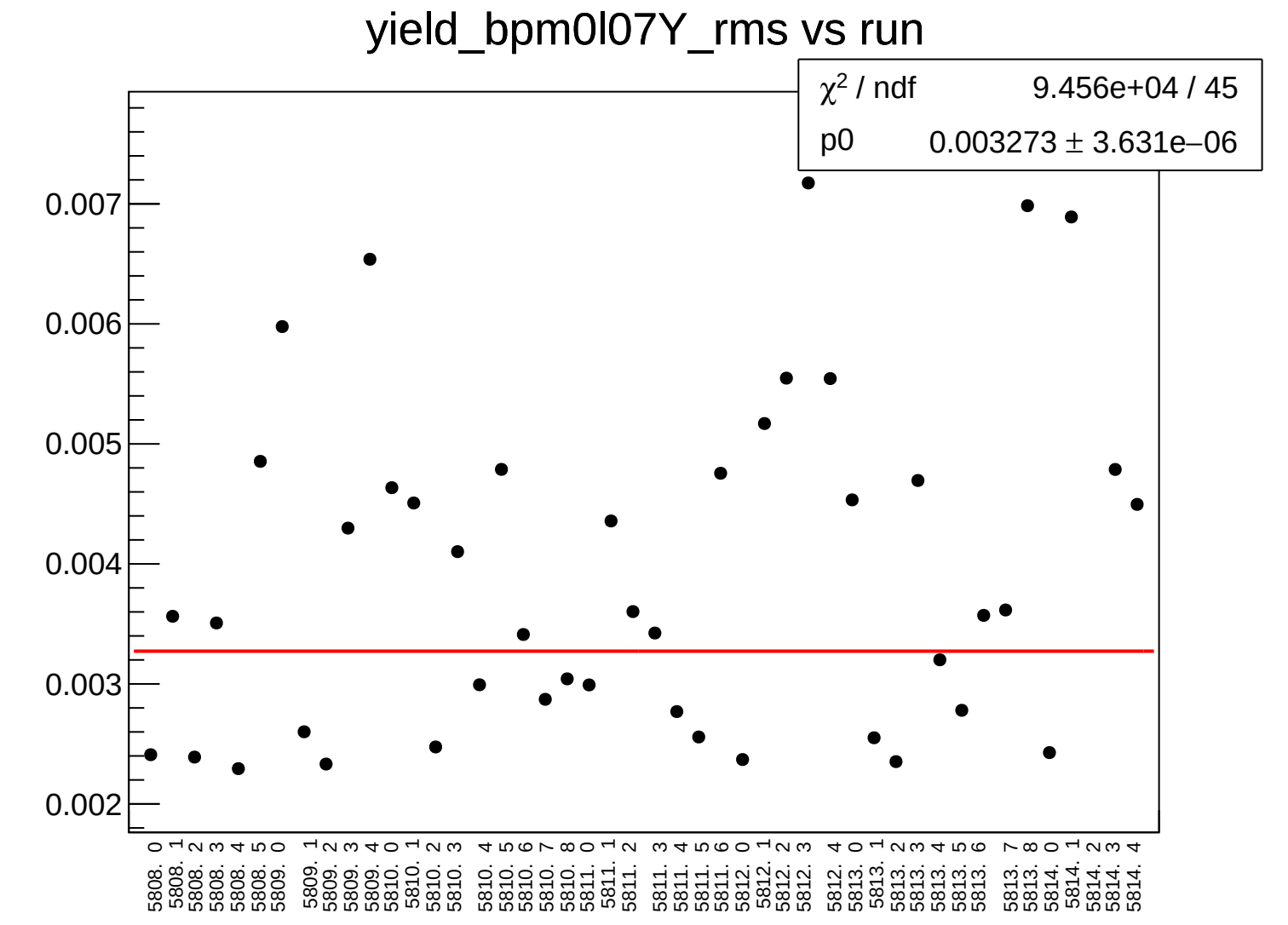

yield_bpm0l06Y_rms vs run
χ² / ndf 1.616e+05 / 45
p0 0.003463 ± 4.01e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

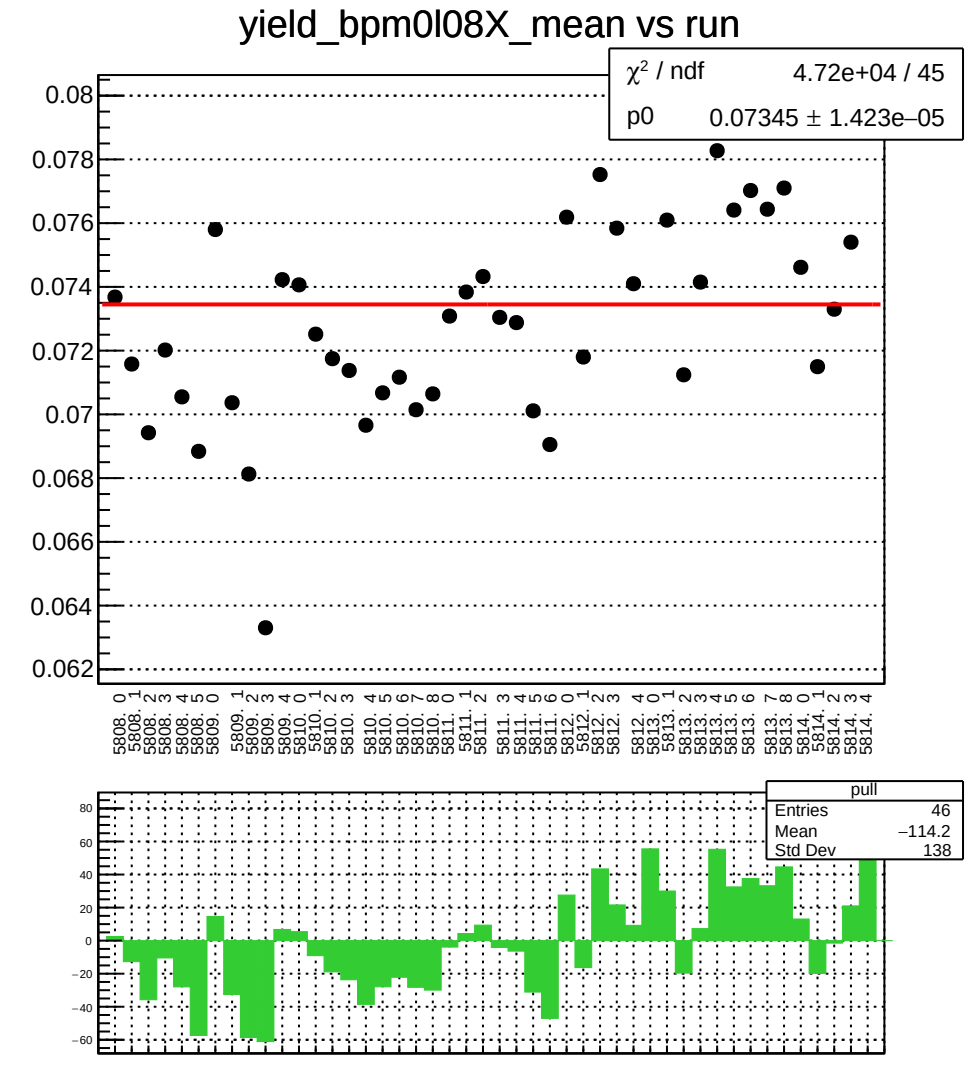

yield_bpm0l07X_mean vs run
χ² / ndf 1.491e+05 / 45
p0 −0.4187 ± 1.716e−05
−0.405
−0.41
−0.415
−0.42
−0.425
−0.43
−0.435
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 93.5
Std Dev 7.217
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 2.336
Std Dev 3.214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

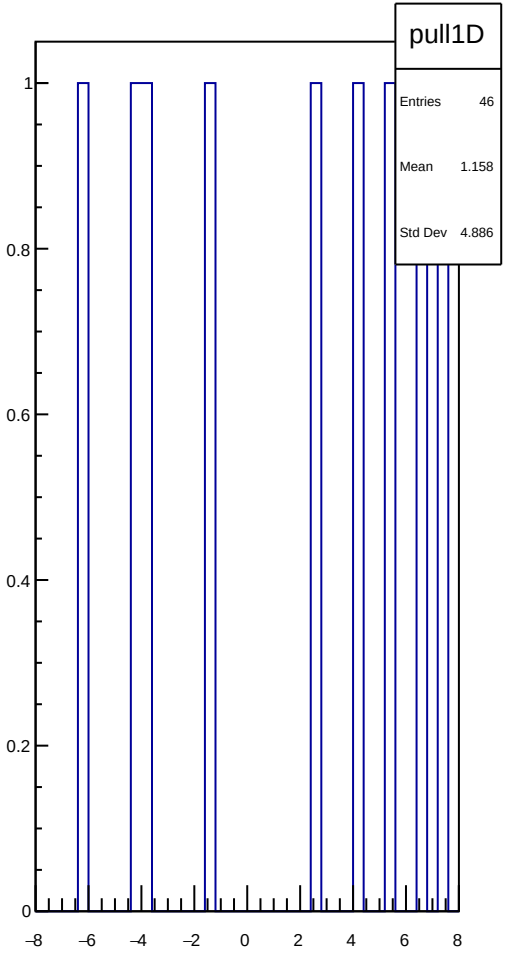

yield_bpm0l07X_rms vs run
χ² / ndf 2.28e+04 / 45
p0 0.01141 ± 1.213e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

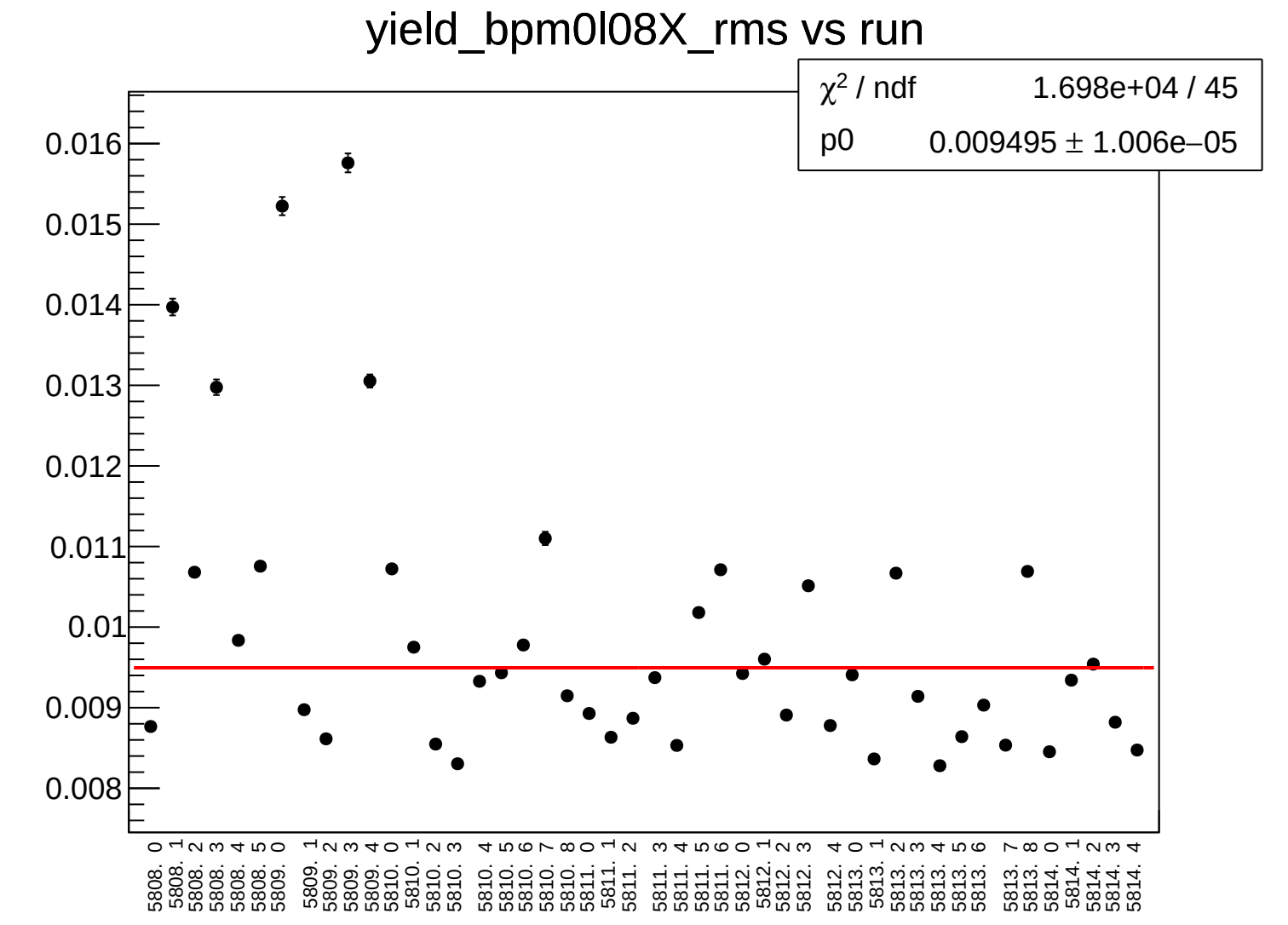

yield_bpm0l07Y_mean vs run
χ² / ndf 6.425e+06 / 45
p0 0.6987 ± 5.134e−06
0.72
0.71
0.7
0.69
0.68
pull
Entries 46
Mean 430.6
Std Dev 409.3
800
600
400
200
0
−200
−400
−600
−800

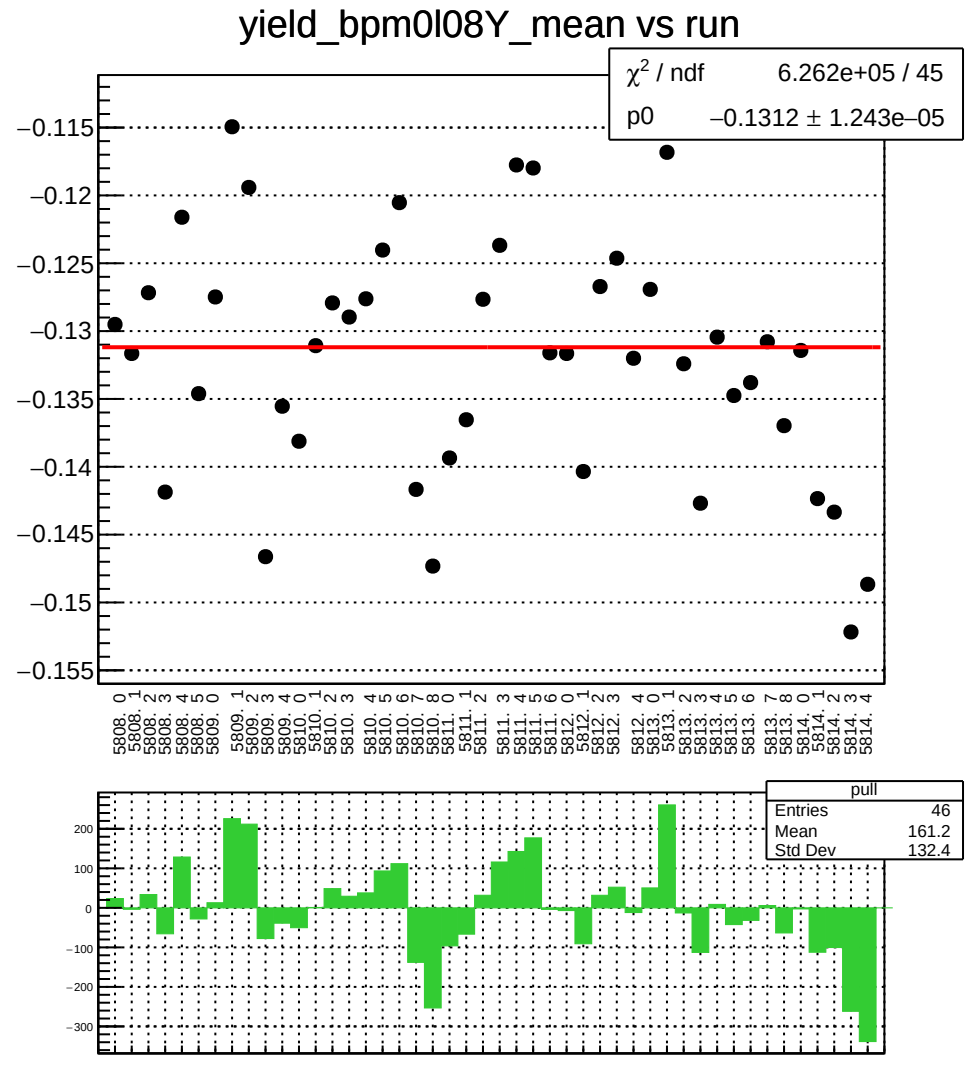

pull1D
Entries 46
Mean 3.504
Std Dev 2.162
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

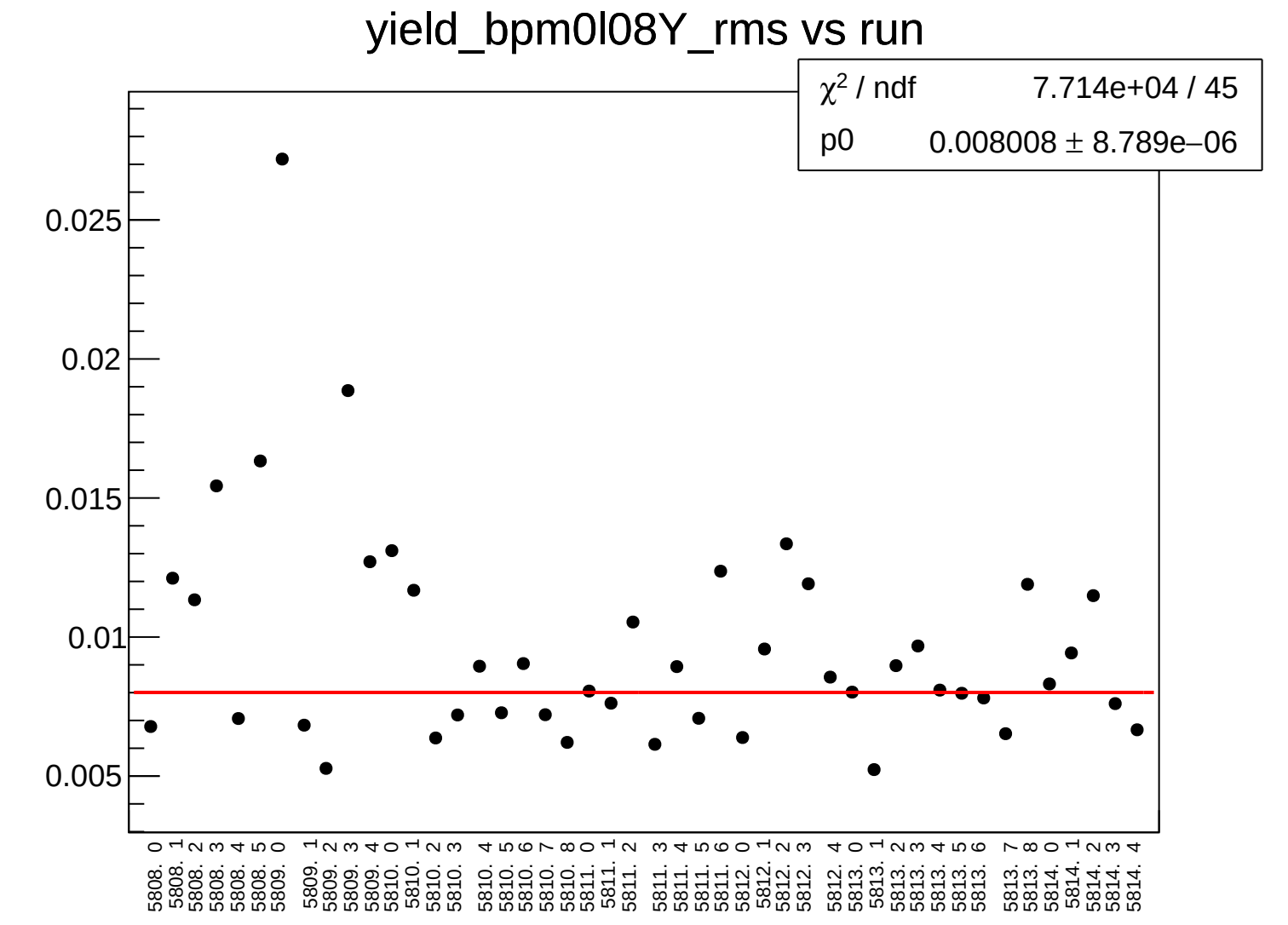

yield_bpm0l07Y_rms vs run
χ² / ndf 9.456e+04 / 45
p0 0.003273 ± 3.631e−06
0.007
0.006
0.005
0.004
0.003
0.002
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

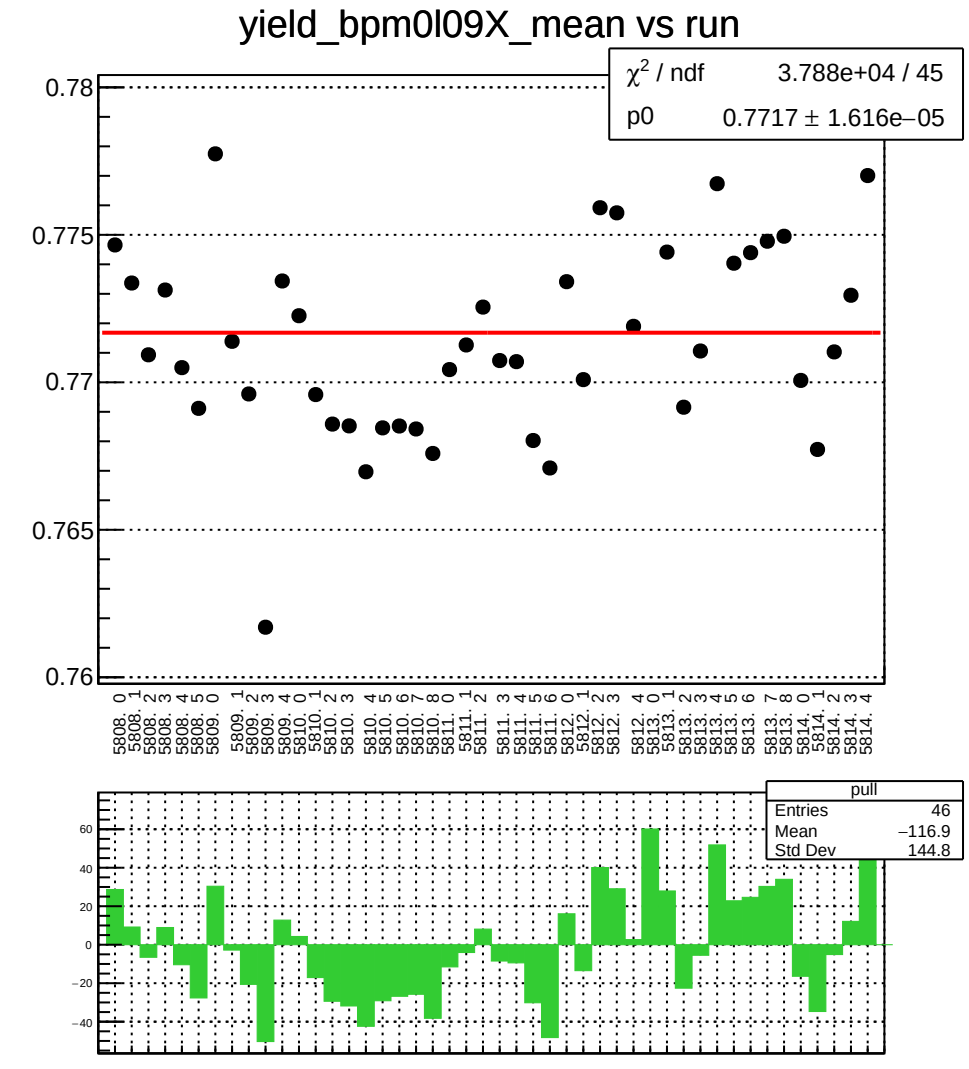

yield_bpm0l08X_mean vs run
χ² / ndf 4.72e+04 / 45
p0 0.07345 ± 1.423e−05
0.08
0.078
0.076
0.074
0.072
0.07
0.068
0.066
0.064
0.062
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −114.2
Std Dev 138
80
60
40
20
0
−20
−40
−60

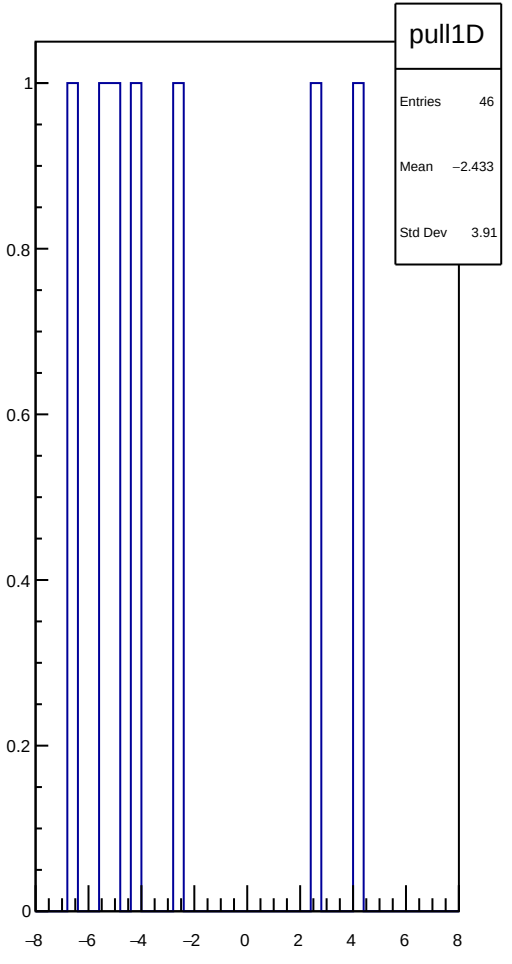

pull1D
Entries 46
Mean 1.158
Std Dev 4.886
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

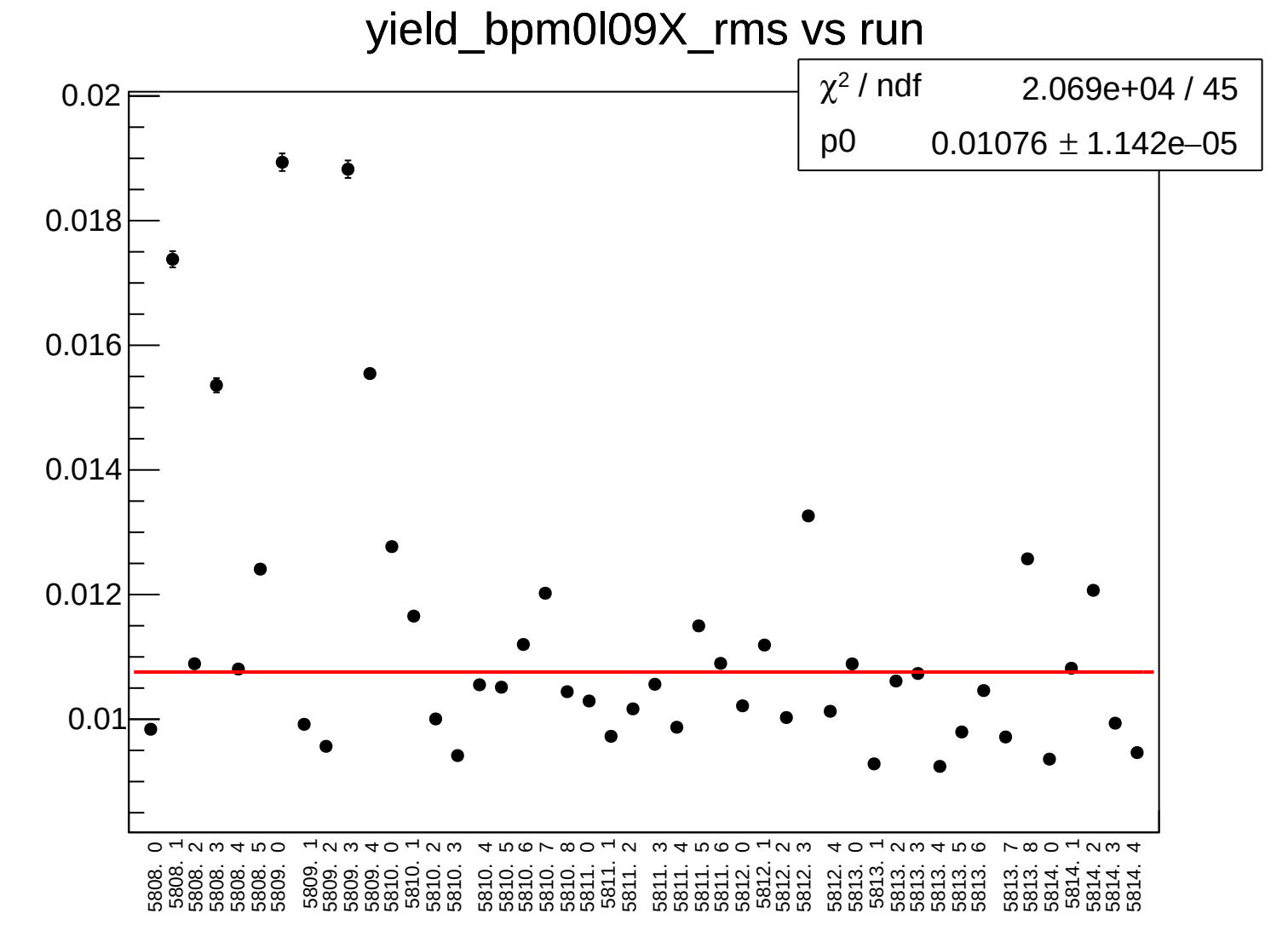

yield_bpm0l08X_rms vs run
χ² / ndf 1.698e+04 / 45
p0 0.009495 ± 1.006e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

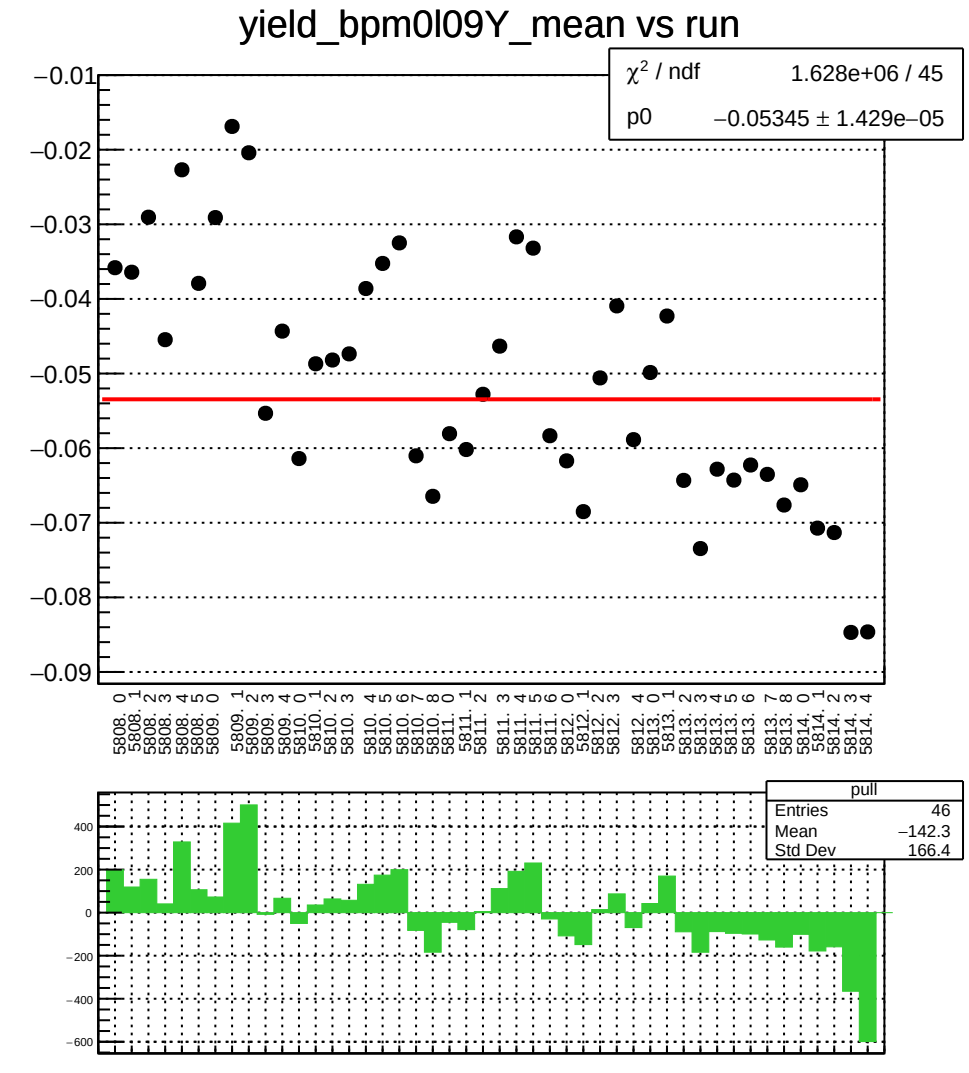

yield_bpm0l08Y_mean vs run
χ² / ndf 6.262e+05 / 45
p0 −0.1312 ± 1.243e−05
−0.115
−0.12
−0.125
−0.13
−0.135
−0.14
−0.145
−0.15
−0.155
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 161.2
Std Dev 132.4
200
100
0
−100
−200
−300
pull1D
Entries 46
Mean −1.682
Std Dev 4.083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

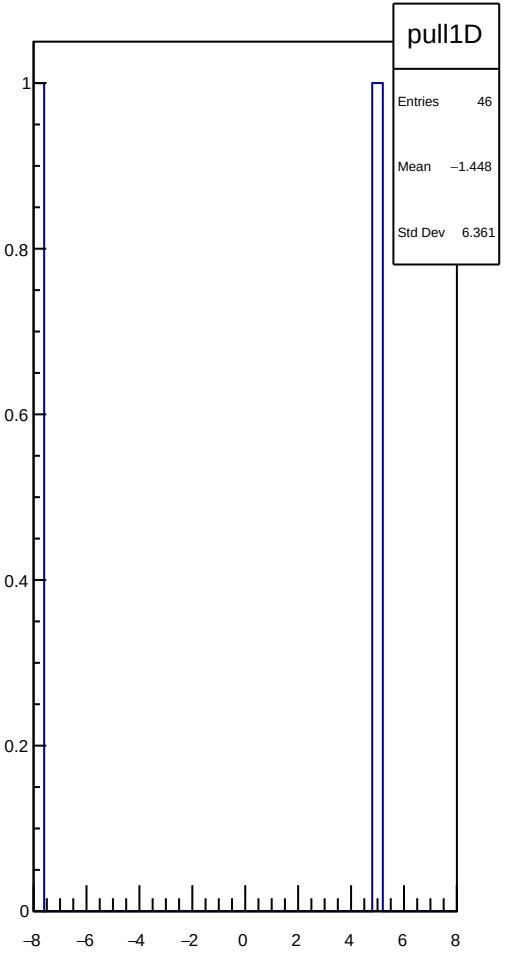

yield_bpm0l08Y_rms vs run
χ² / ndf 7.714e+04 / 45
p0 0.008008 ± 8.789e−06
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

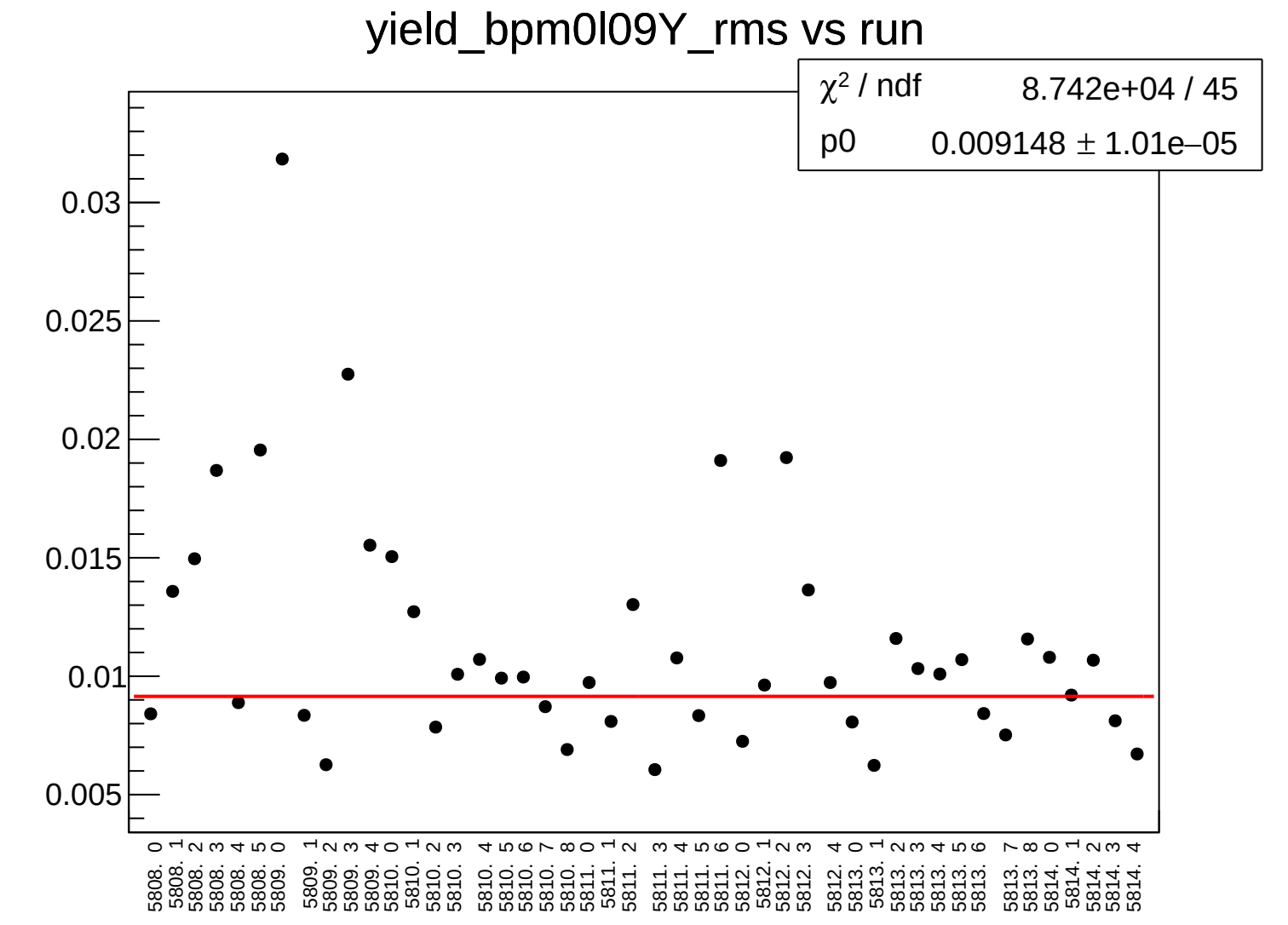

yield_bpm0l09X_mean vs run
χ² / ndf 3.788e+04 / 45
p0 0.7717 ± 1.616e−05
0.78
0.775
0.77
0.765
0.76
pull
Entries 46
Mean −116.9
Std Dev 144.8
60
40
20
0
−20
−40


pull1D
Entries 46
Mean −2.433
Std Dev 3.91
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l09X_rms vs run
χ² / ndf 2.069e+04 / 45
p0 0.01076 ± 1.142e–05
0.02
0.018
0.016
0.014
0.012
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4


yield_bpm0l09Y_mean vs run
χ² / ndf 1.628e+06 / 45
p0 −0.05345 ± 1.429e−05
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −142.3
Std Dev 166.4
400
200
0
−200
−400
−600


pull1D
Entries 46
Mean −1.448
Std Dev 6.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l09Y_rms vs run
χ² / ndf 8.742e+04 / 45
p0 0.009148 ± 1.01e−05
0.03
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
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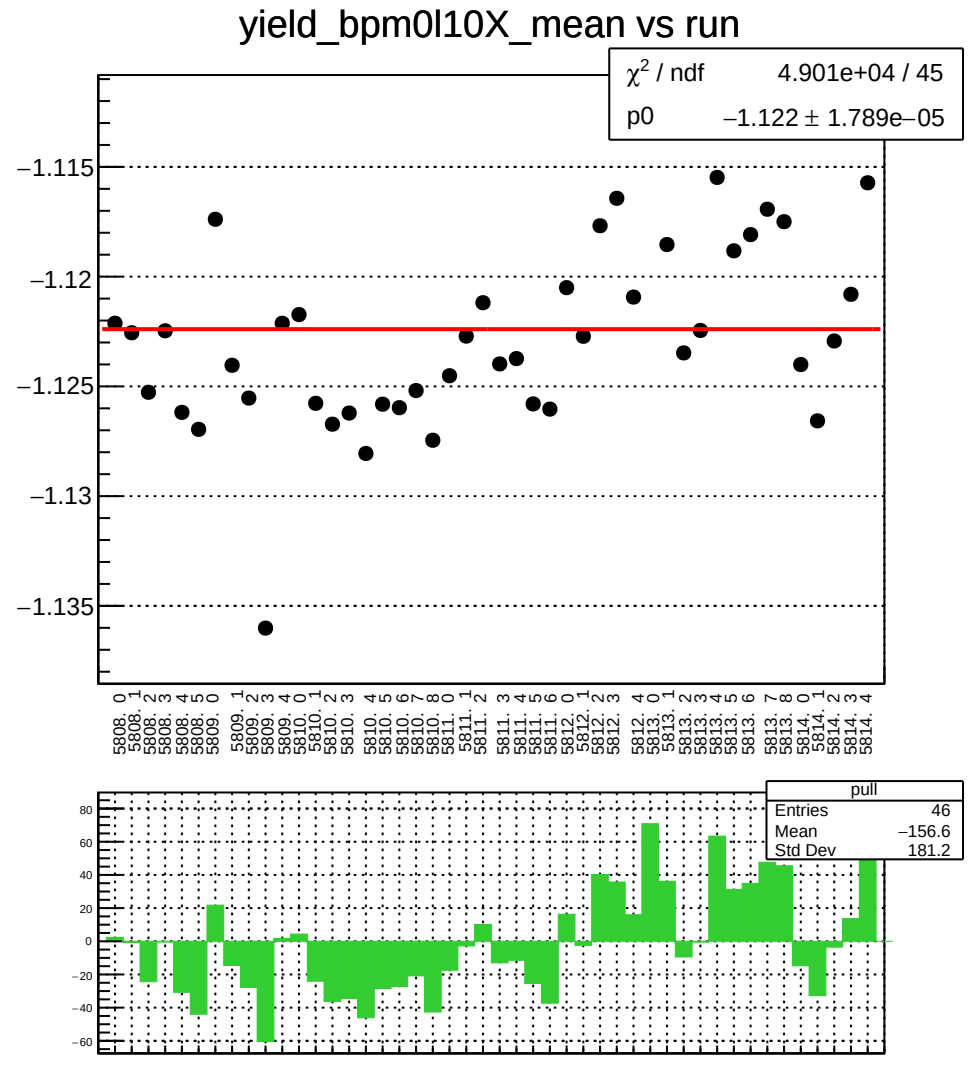
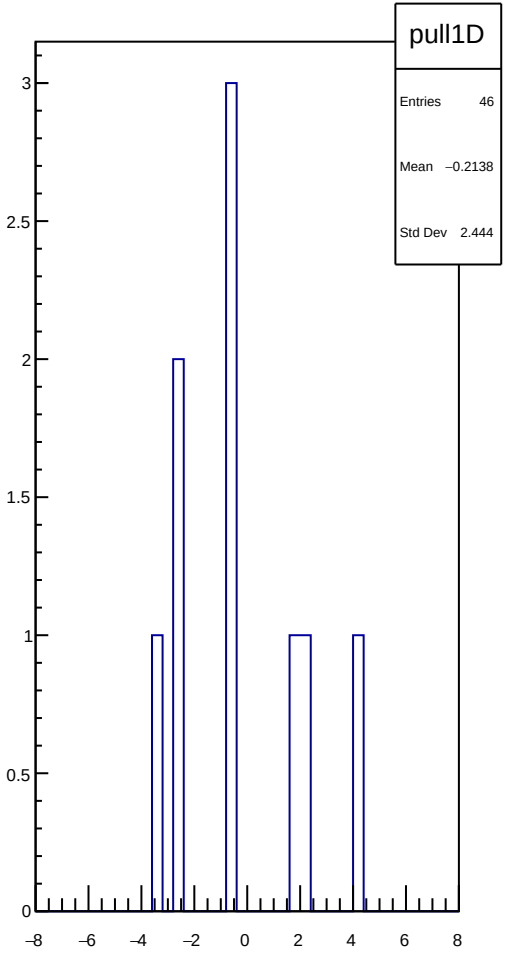
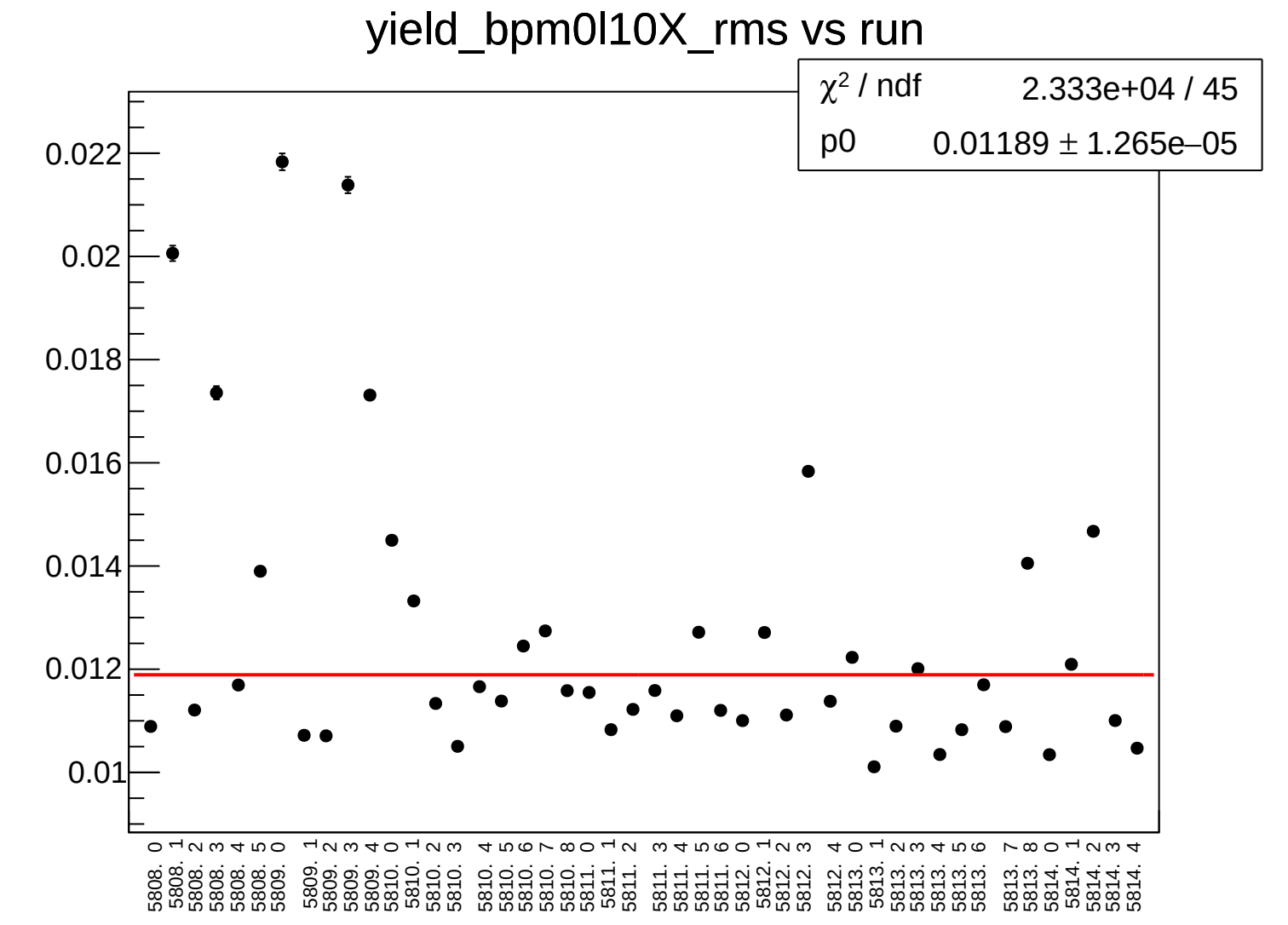
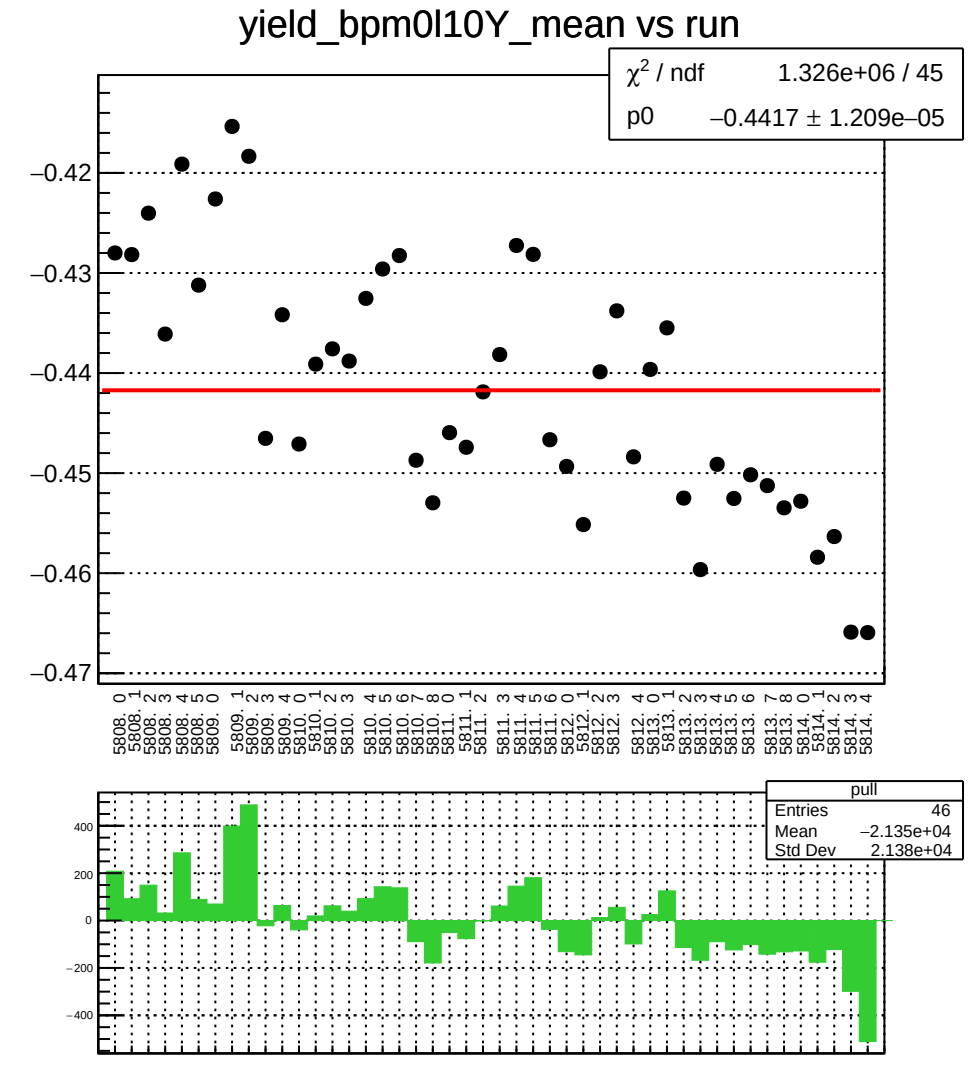
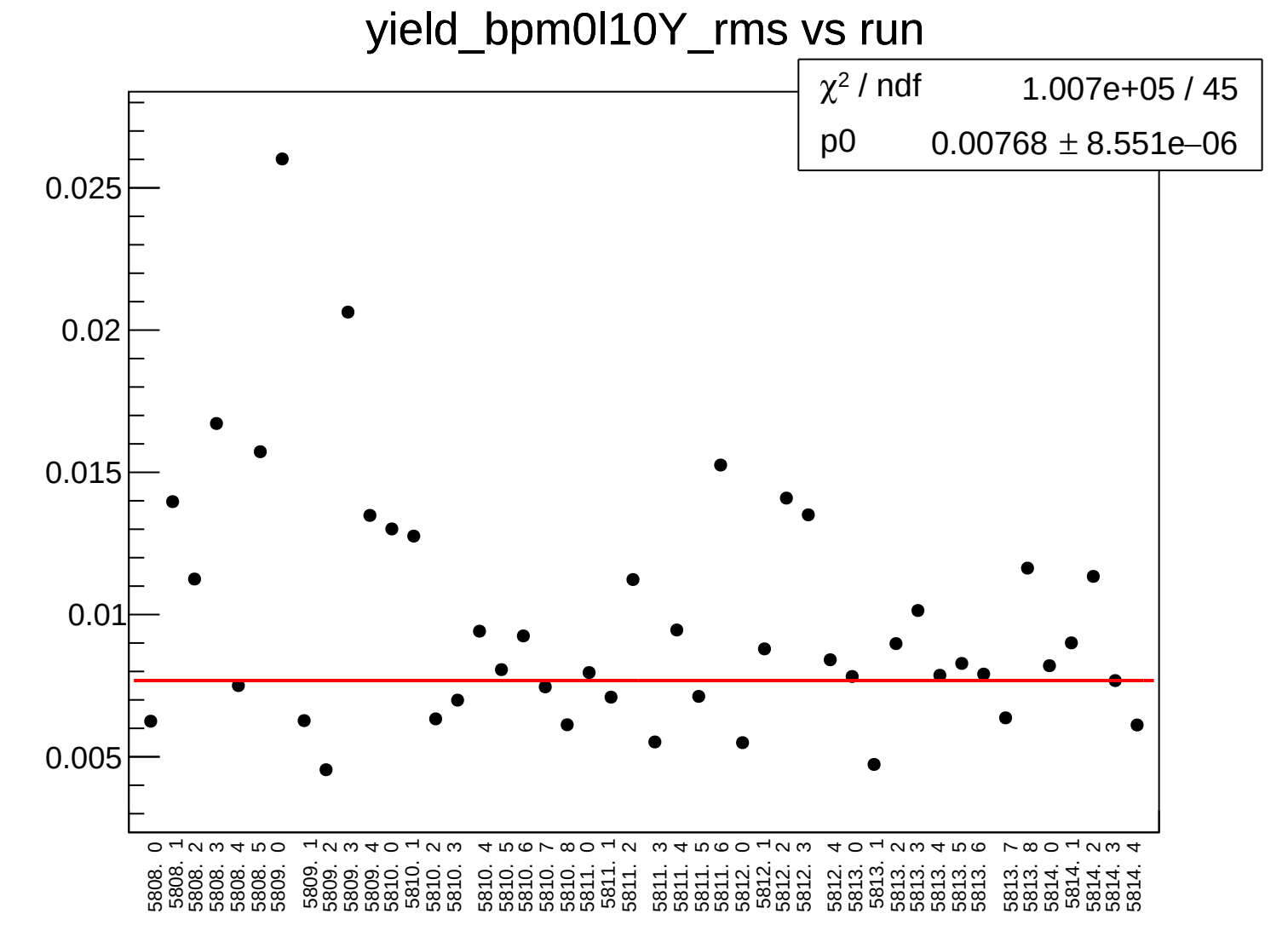
5814. 4

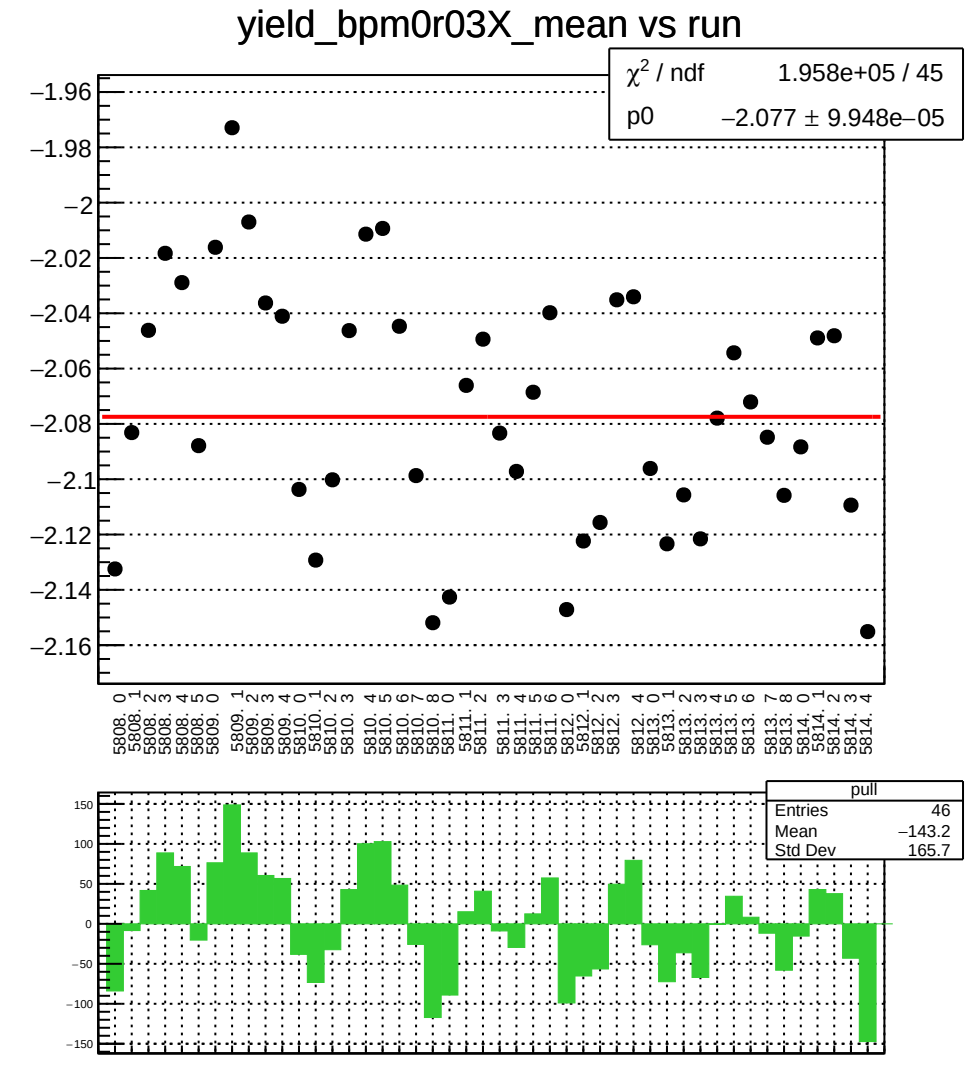

yield_bpm0l10X_mean vs run
χ² / ndf 4.901e+04 / 45
p0 −1.122 ± 1.789e−05
−1.115
−1.12
−1.125
−1.13
−1.135
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −156.6
Std Dev 181.2
80
60
40
20
0
−20
−40
−60

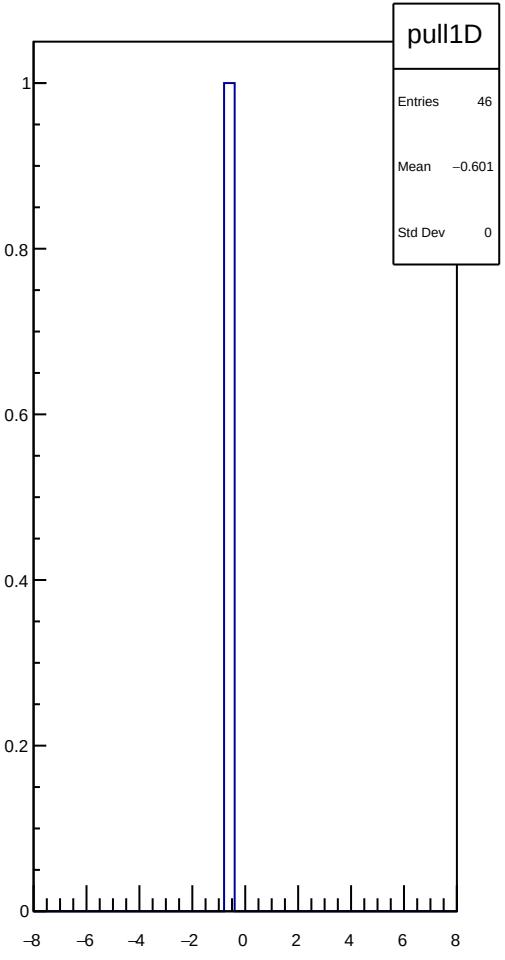

pull1D
Entries 46
Mean −0.2138
Std Dev 2.444
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

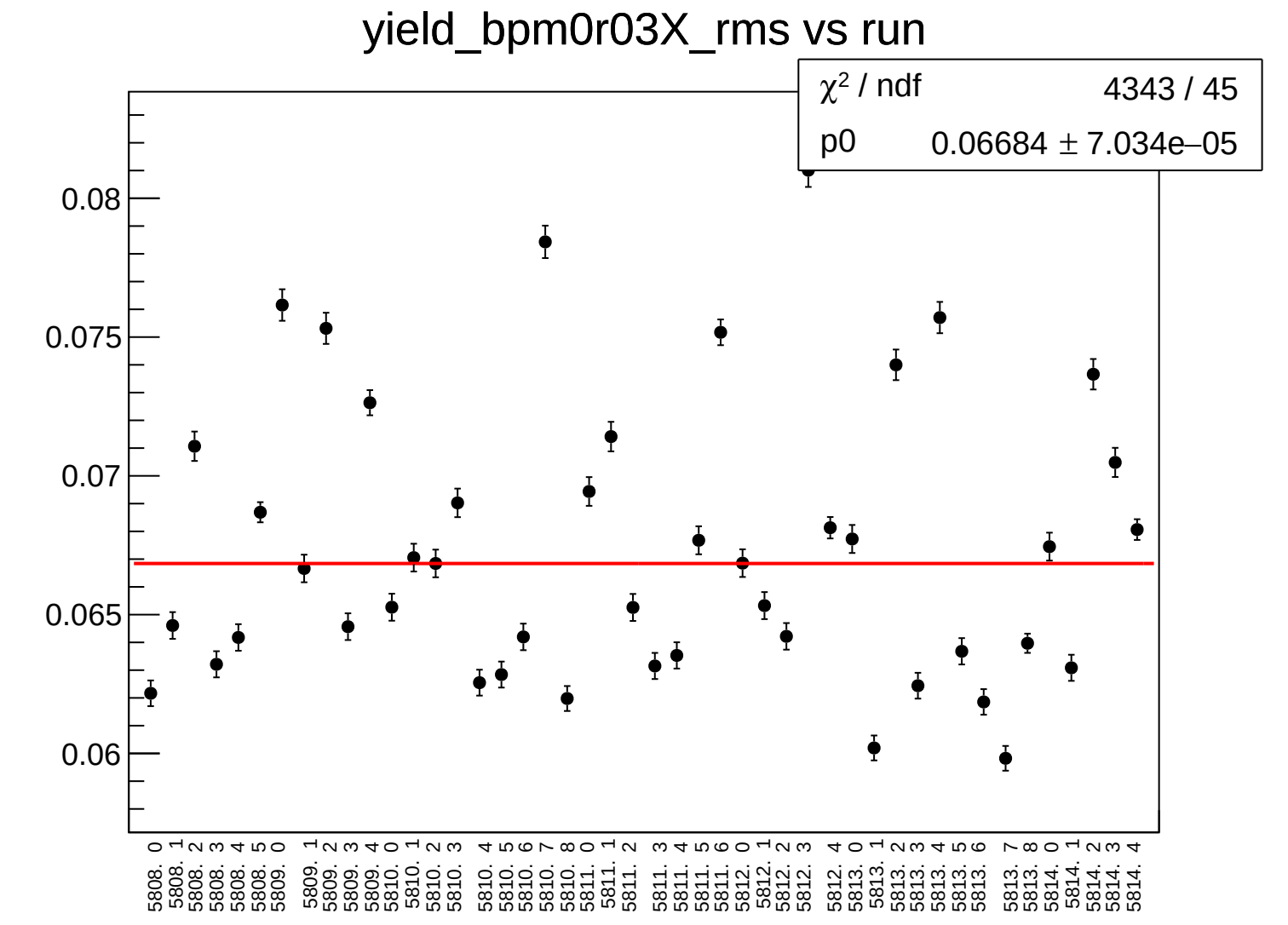

yield_bpm0l10X_rms vs run
χ² / ndf 2.333e+04 / 45
p0 0.01189 ± 1.265e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

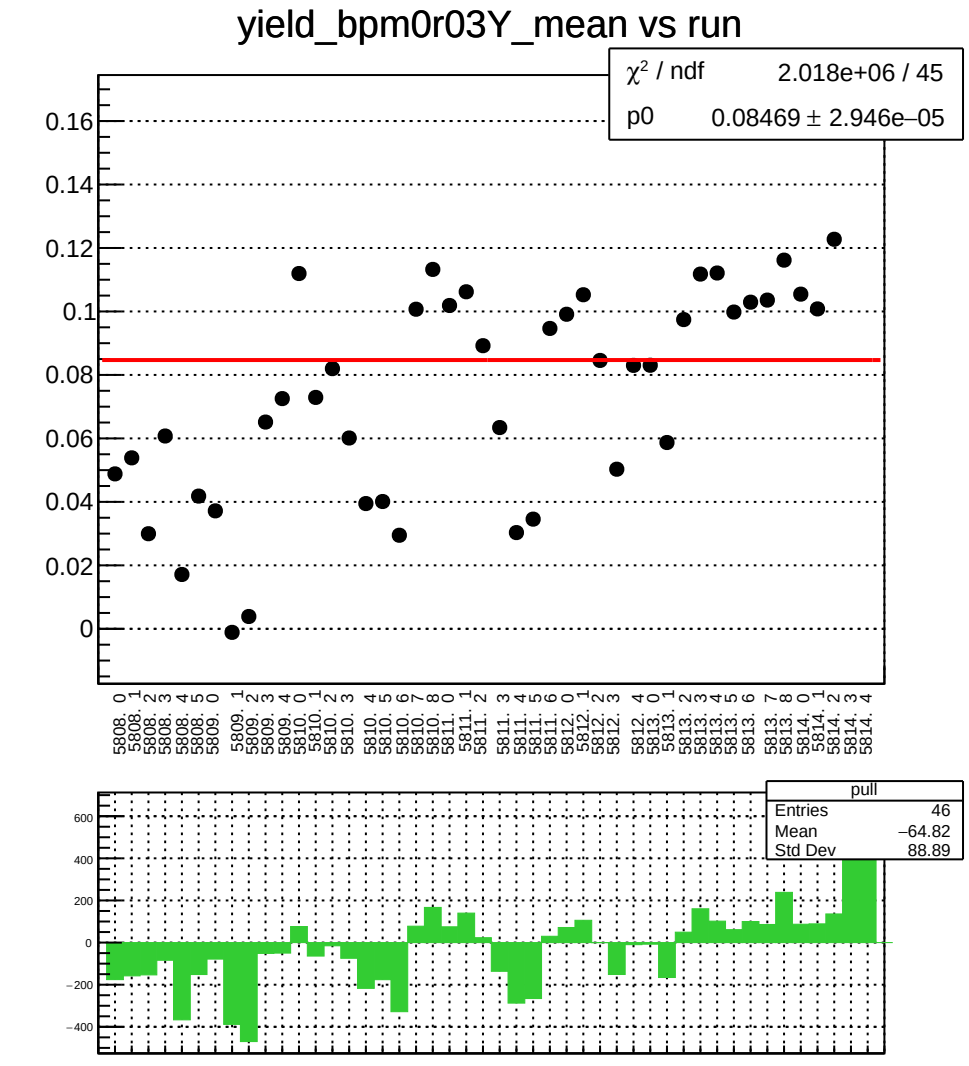

yield_bpm0l10Y_mean vs run
χ² / ndf 1.326e+06 / 45
p0 −0.4417 ± 1.209e−05
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −2.135e+04
Std Dev 2.138e+04
400
200
0
−200
−400
pull1D
Entries 46
Mean −1.357
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

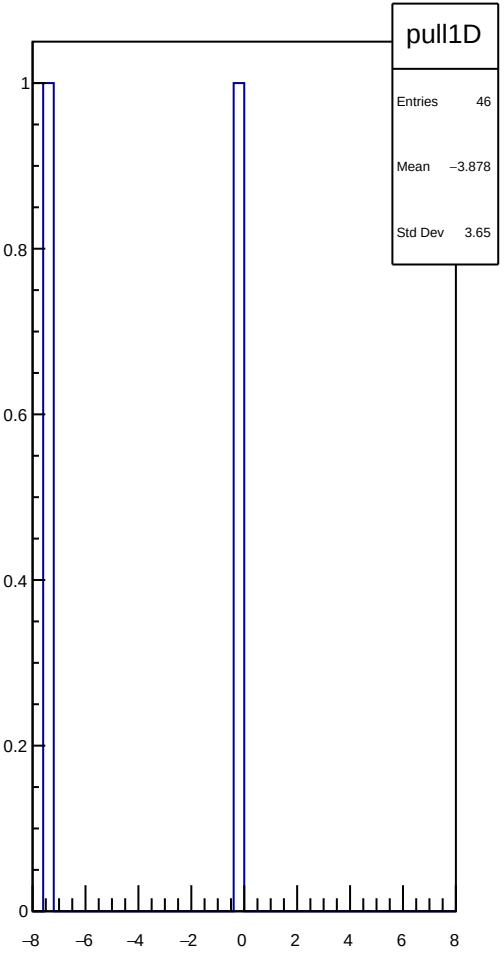

yield_bpm0l10Y_rms vs run
χ² / ndf 1.007e+05 / 45
p0 0.00768 ± 8.551e–06
0.025
0.02
0.015
0.01
0.005
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

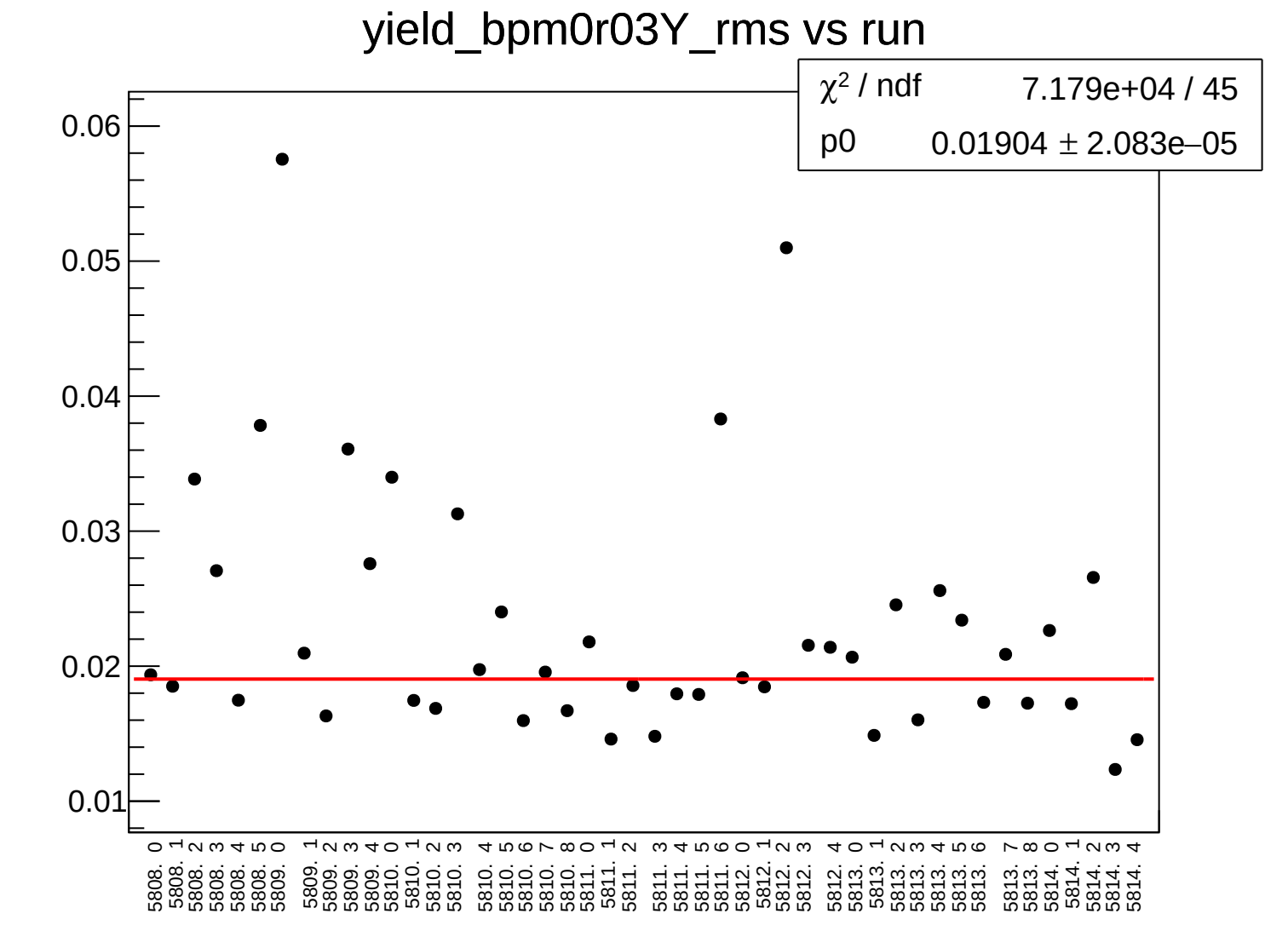

yield_bpm0r03X_mean vs run
χ² / ndf 1.958e+05 / 45
p0 −2.077 ± 9.948e−05
−1.96
−1.98
−2
−2.02
−2.04
−2.06
−2.08
−2.1
−2.12
−2.14
−2.16
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −143.2
Std Dev 165.7
150
100
50
0
−50
−100
−150

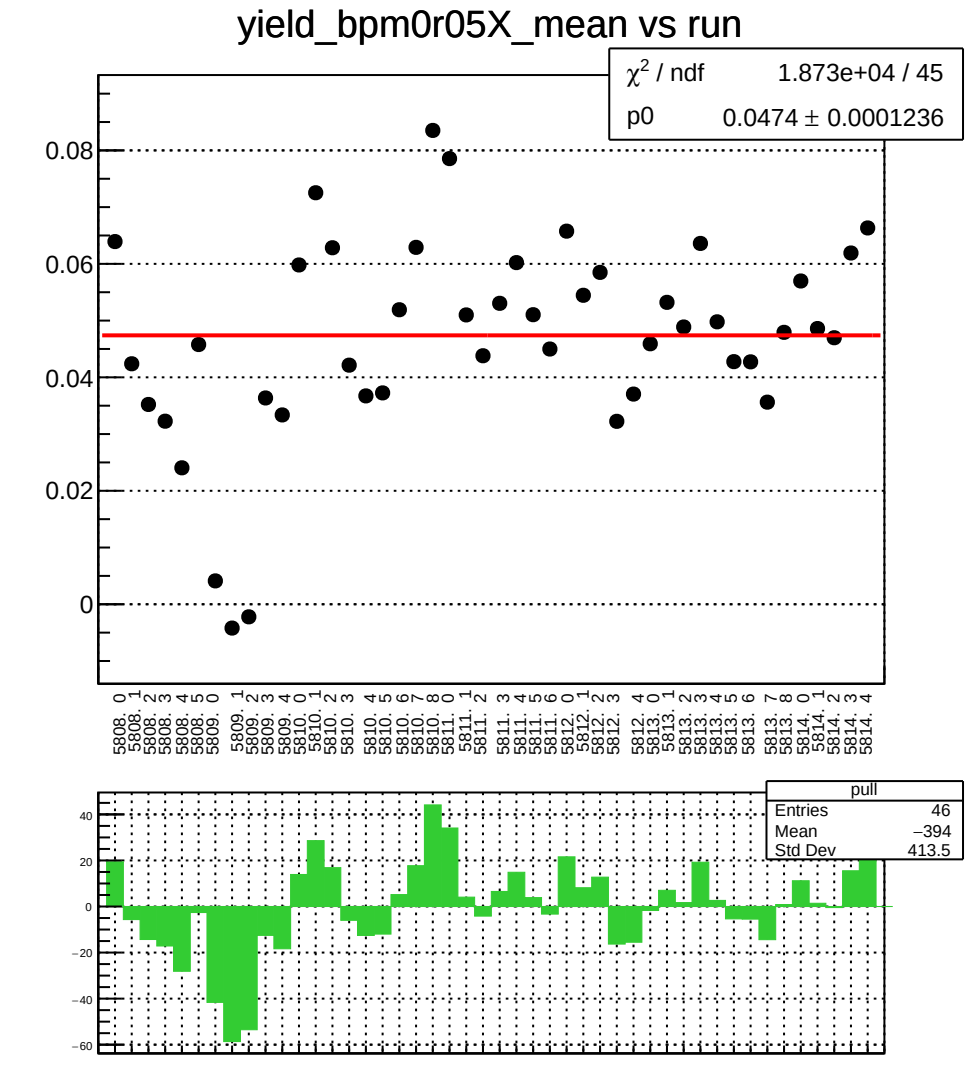

pull1D
Entries 46
Mean −0.601
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

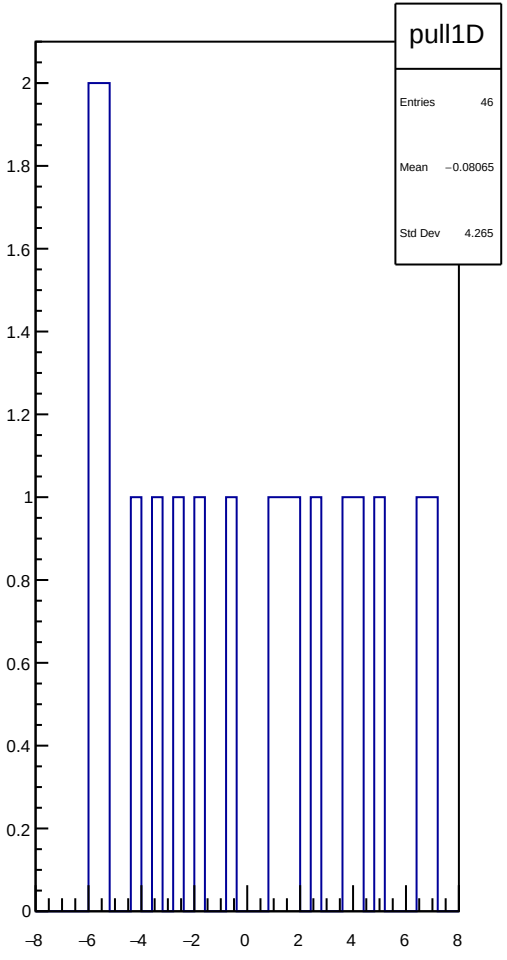

yield_bpm0r03X_rms vs run
χ² / ndf 4343 / 45
p0 0.06684 ± 7.034e−05
0.08
0.075
0.07
0.065
0.06
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

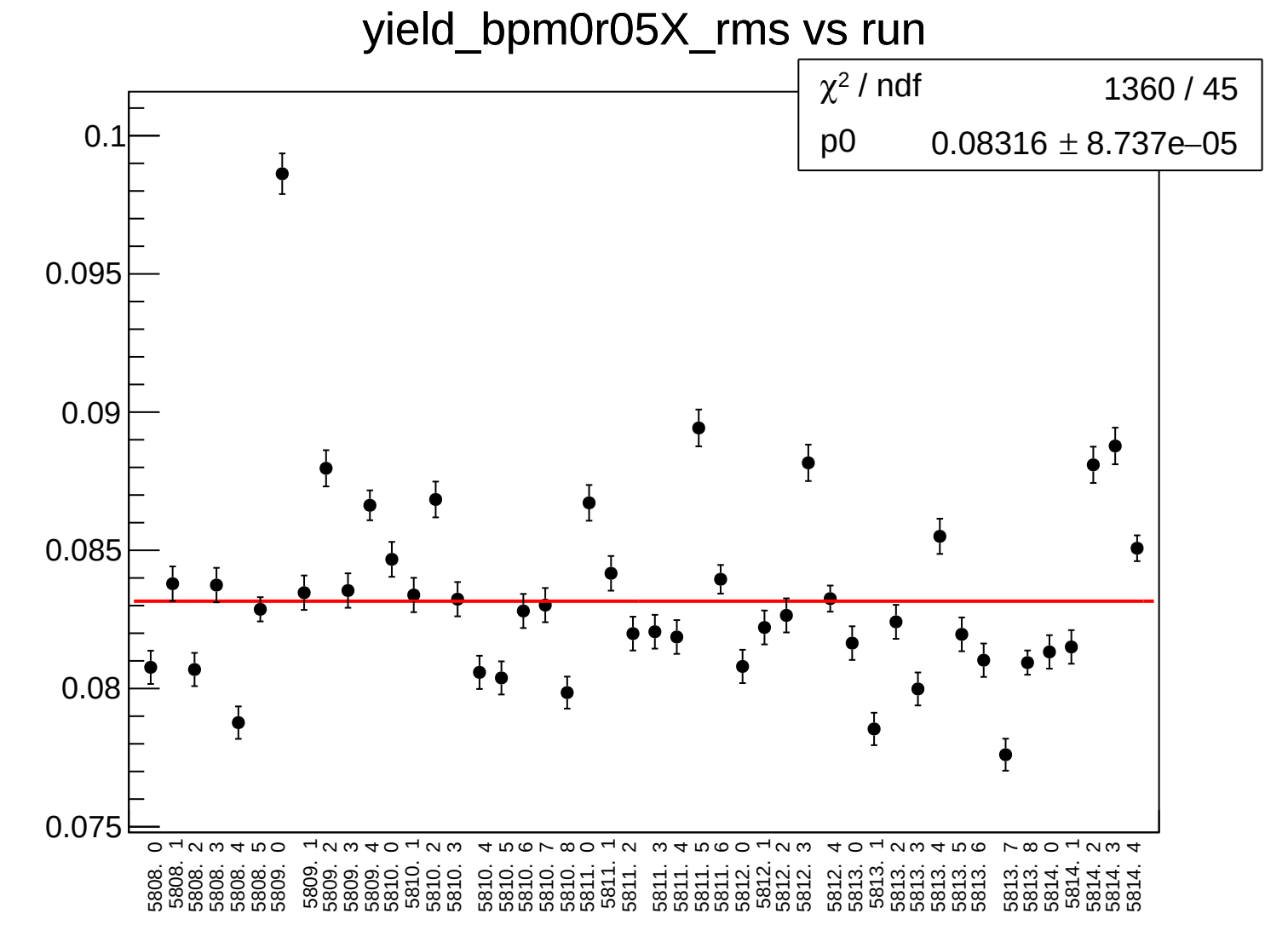

yield_bpm0r03Y_mean vs run
χ² / ndf 2.018e+06 / 45
p0 0.08469 ± 2.946e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean –64.82
Std Dev 88.89
600
400
200
0
–200
–400

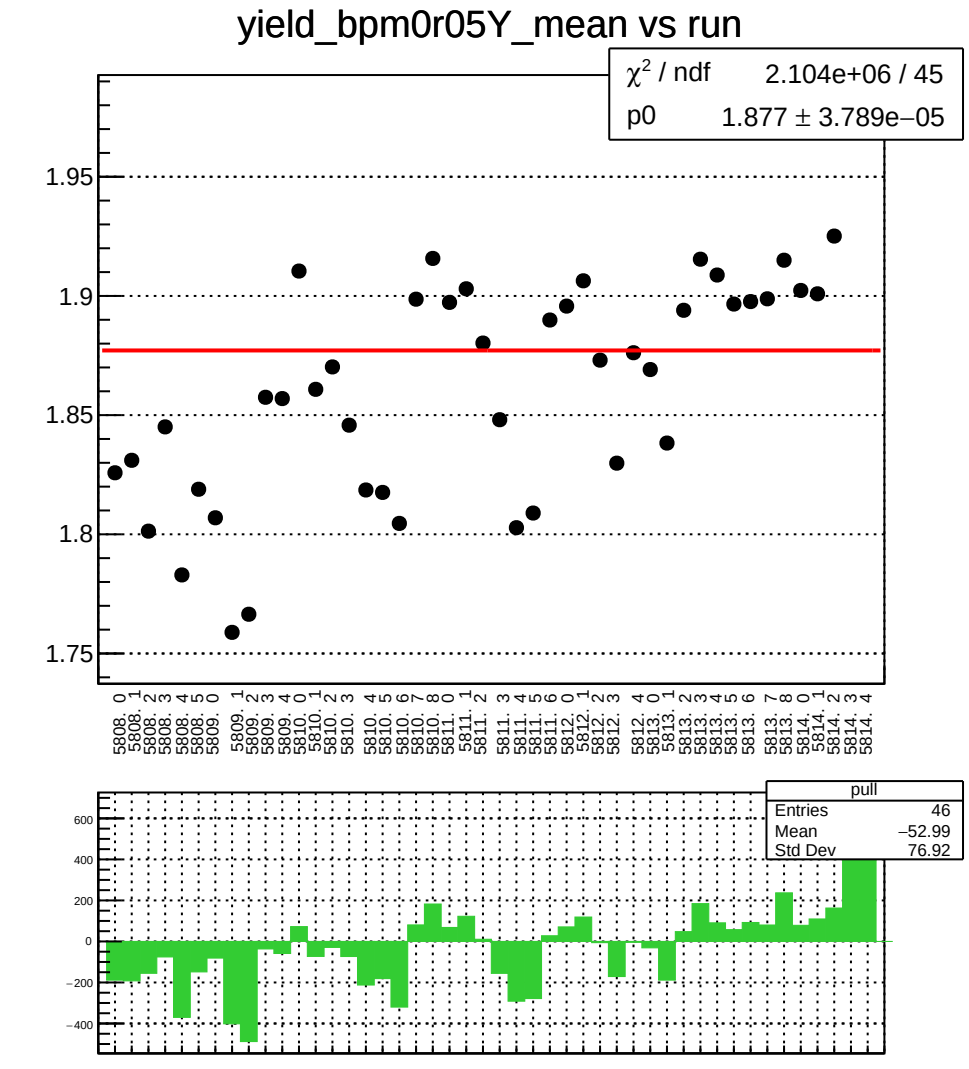

pull1D
Entries 46
Mean –3.878
Std Dev 3.65
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

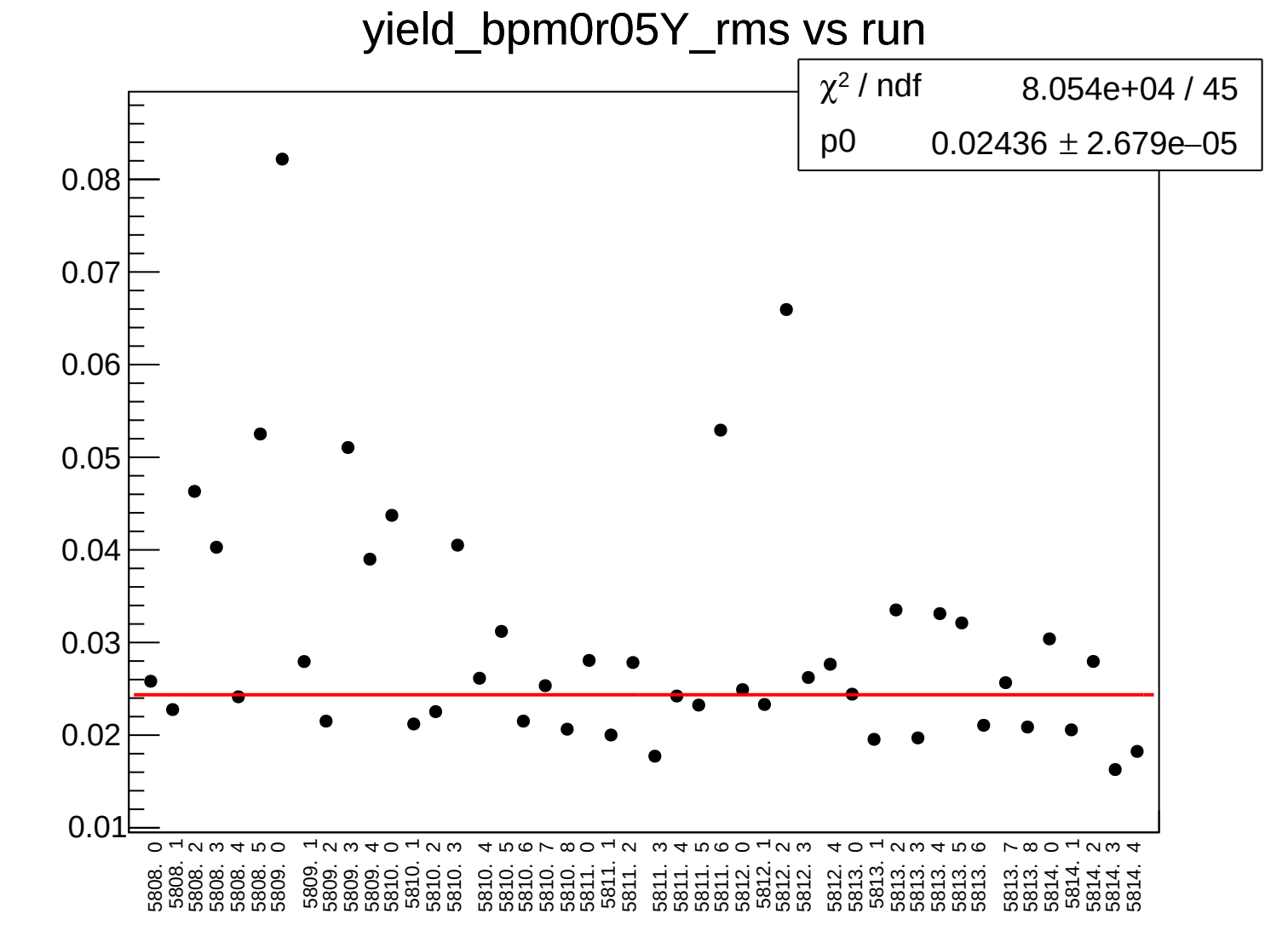

yield_bpm0r03Y_rms vs run
χ² / ndf 7.179e+04 / 45
p0 0.01904 ± 2.083e–05
0.06
0.05
0.04
0.03
0.02
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

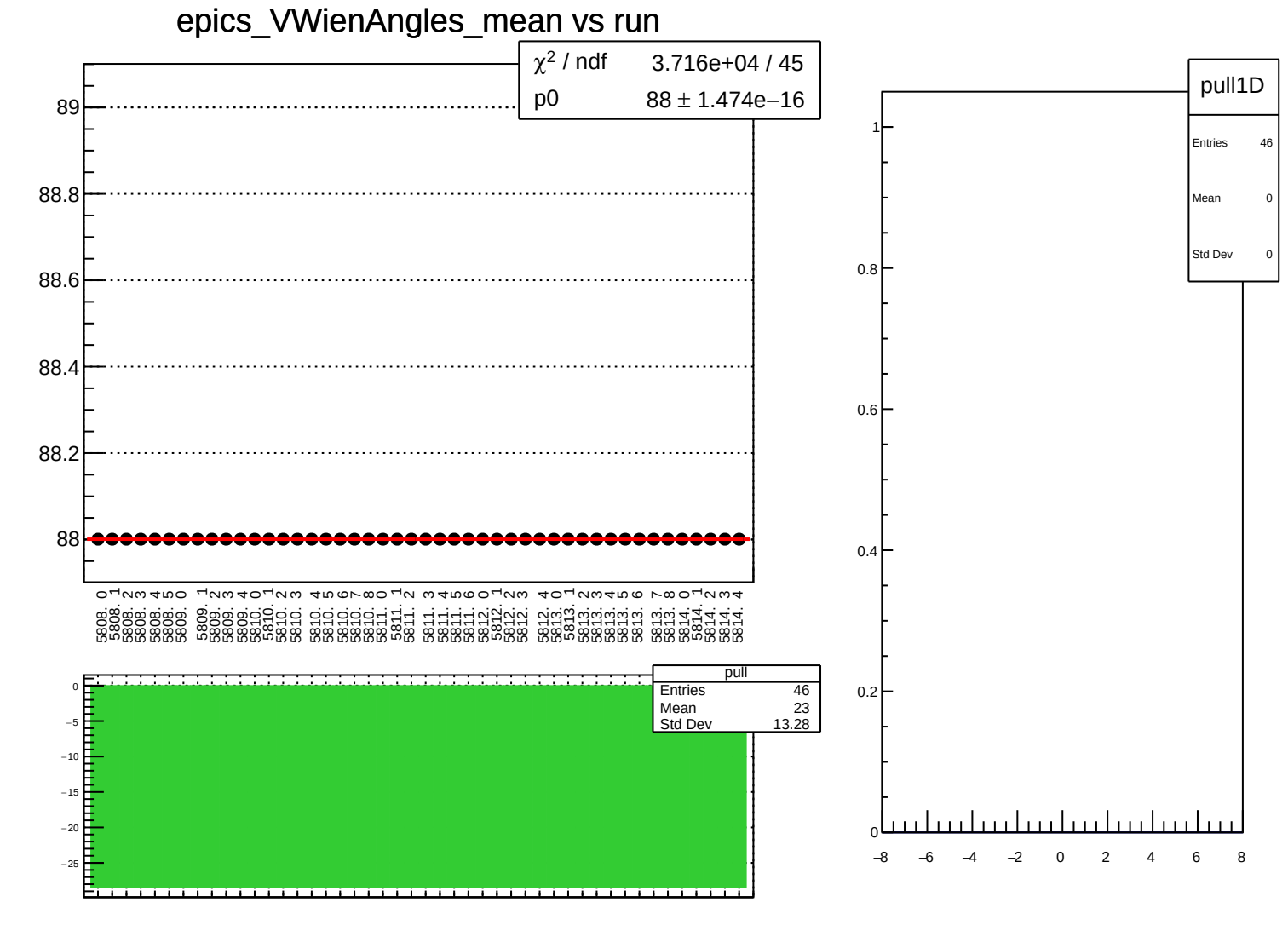

yield_bpm0r05X_mean vs run
χ² / ndf 1.873e+04 / 45
p0 0.0474 ± 0.0001236
0.08
0.06
0.04
0.02
0
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −394
Std Dev 413.5
40
20
0
−20
−40
−60

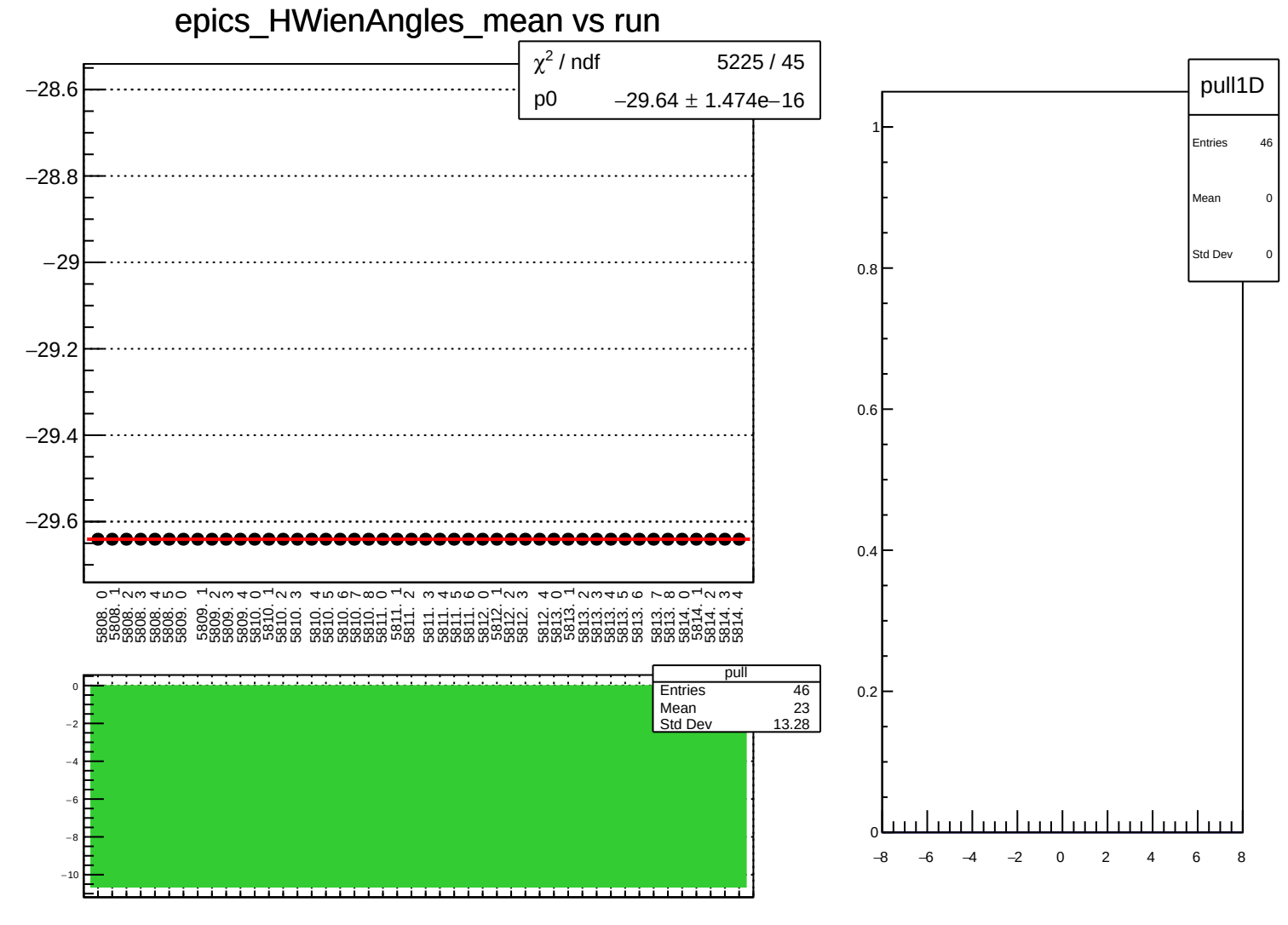

pull1D
Entries 46
Mean −0.08065
Std Dev 4.265
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

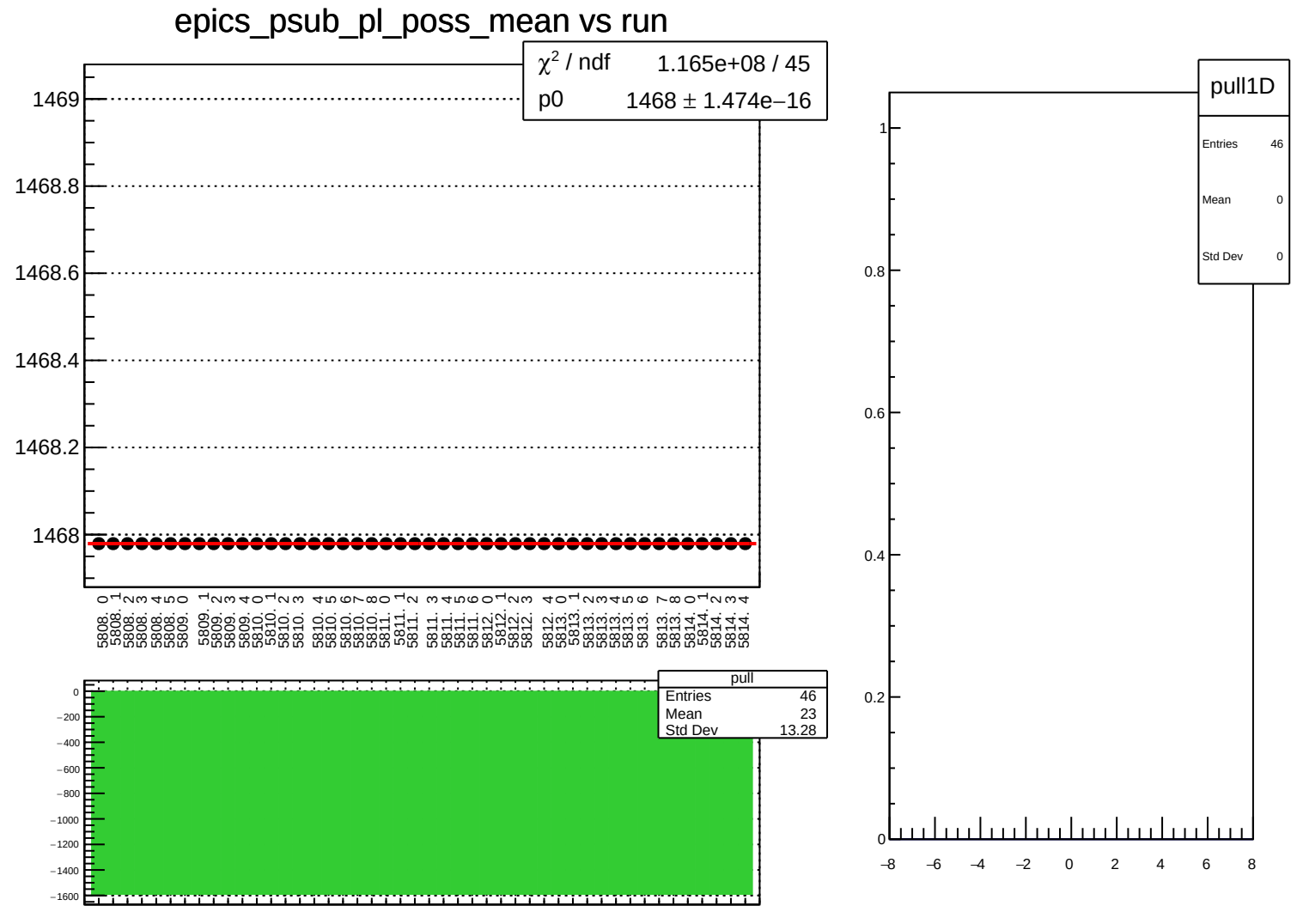

yield_bpm0r05X_rms vs run
χ² / ndf 1360 / 45
p0 0.08316 ± 8.737e–05
0.1
0.095
0.09
0.085
0.08
0.075
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

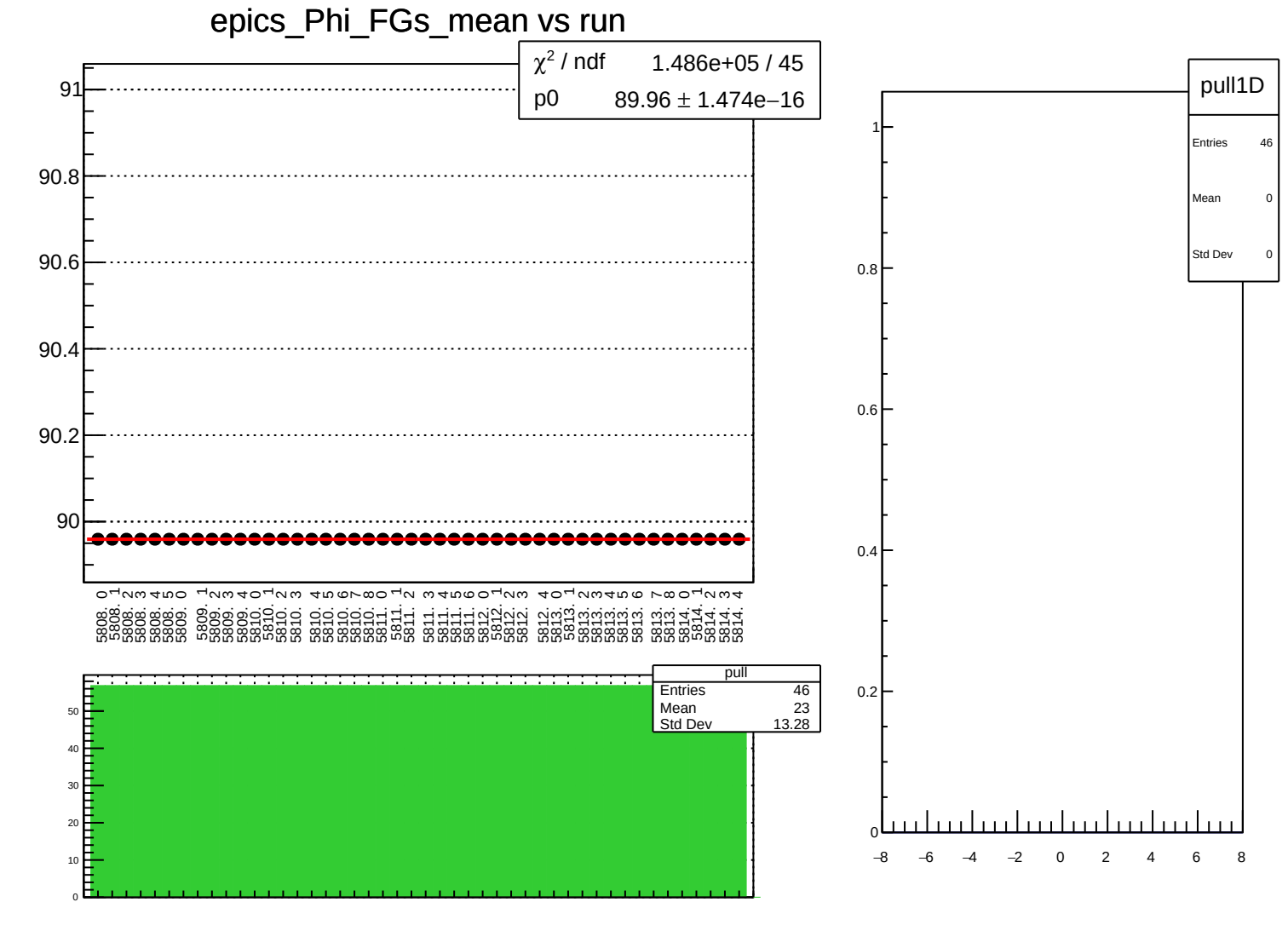

yield_bpm0r05Y_mean vs run
χ² / ndf 2.104e+06 / 45
p0 1.877 ± 3.789e−05
1.95
1.9
1.85
1.8
1.75
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean −52.99
Std Dev 76.92
600
400
200
0
−200
−400
pull1D
Entries 46
Mean −5.066
Std Dev 0.7826
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

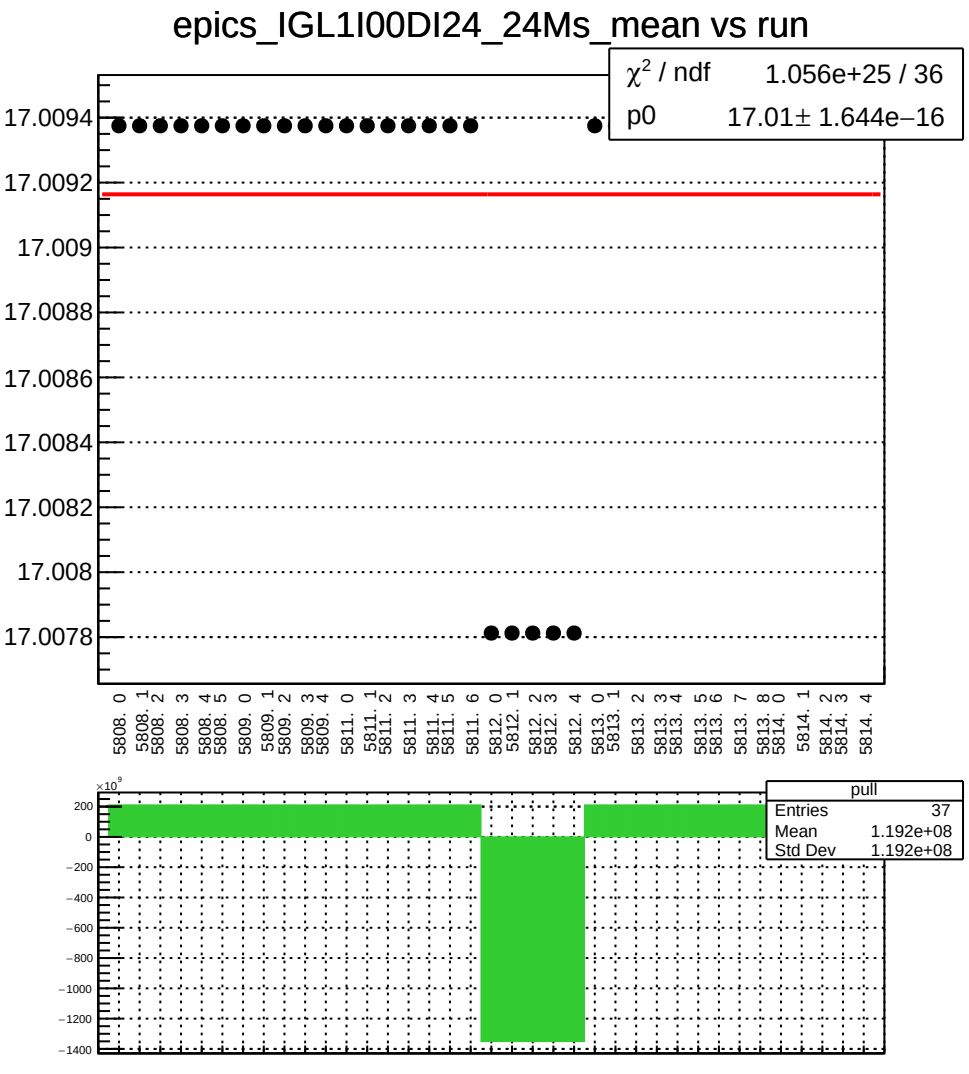

yield_bpm0r05Y_rms vs run
χ² / ndf 8.054e+04 / 45
p0 0.02436 ± 2.679e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4

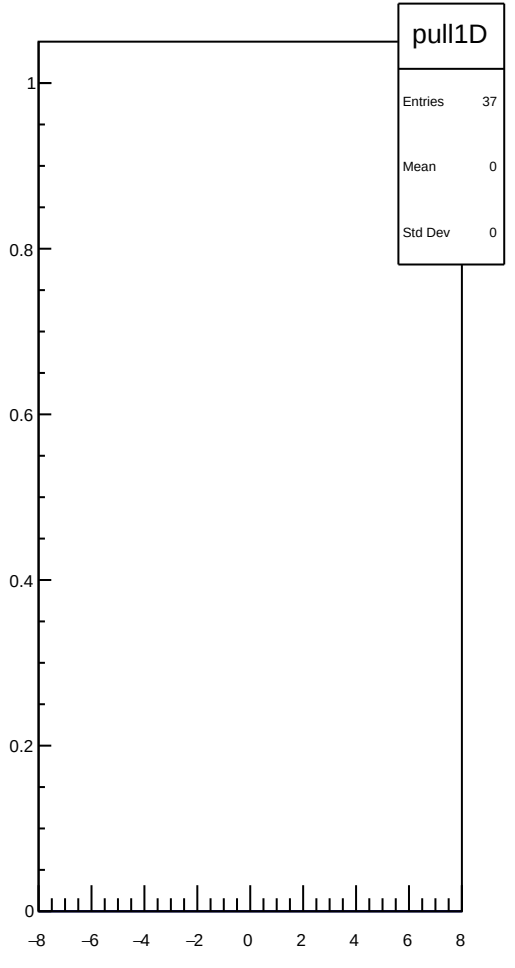

epics_VWienAngles_mean vs run
χ² / ndf 3.716e+04 / 45
p0 88 ± 1.474e−16
89
88.8
88.6
88.4
88.2
88
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−5
−10
−15
−20
−25
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

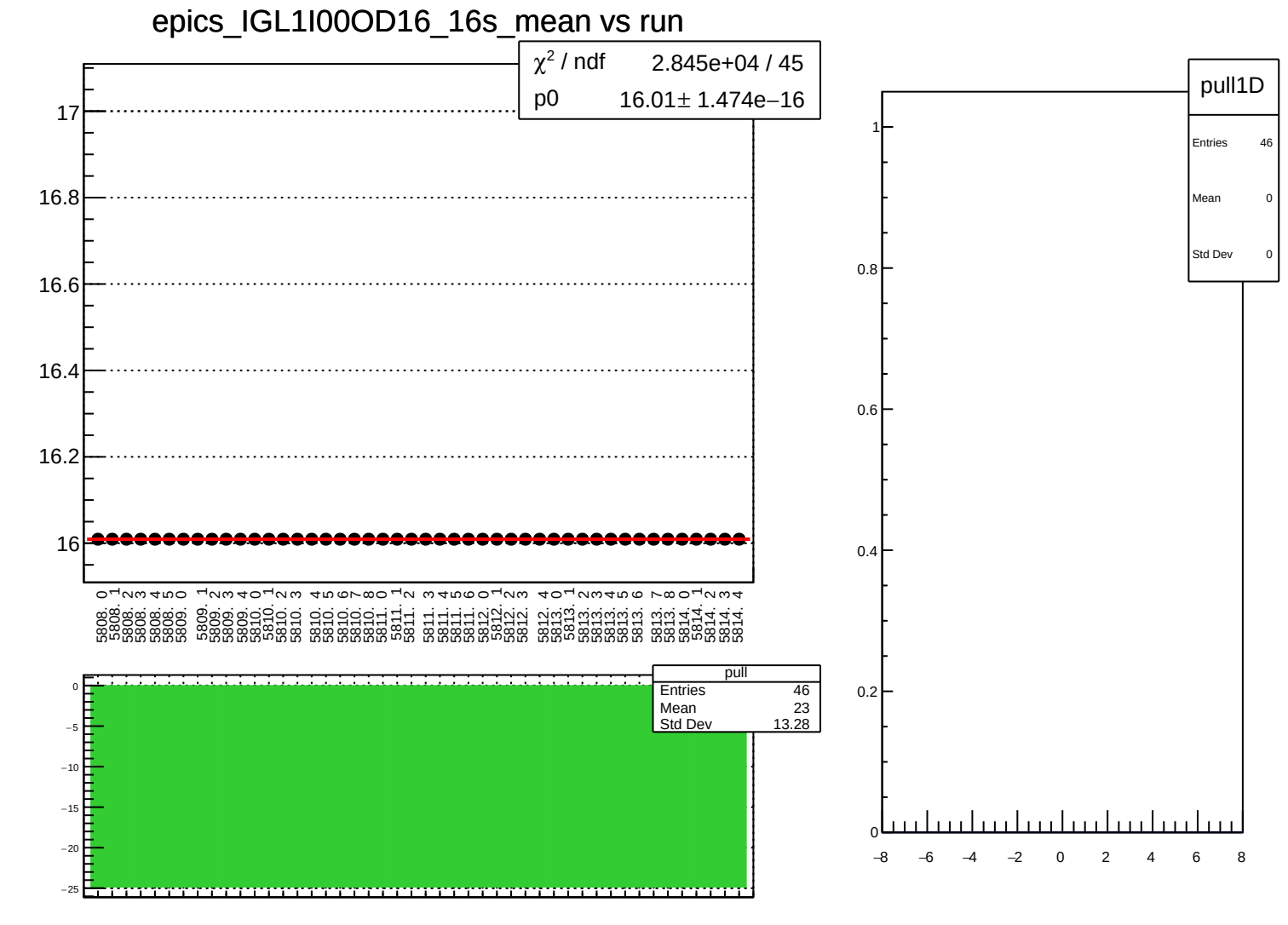

epics_HWienAngles_mean vs run
χ² / ndf 5225 / 45
p0 −29.64 ± 1.474e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−2
−4
−6
−8
−10
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

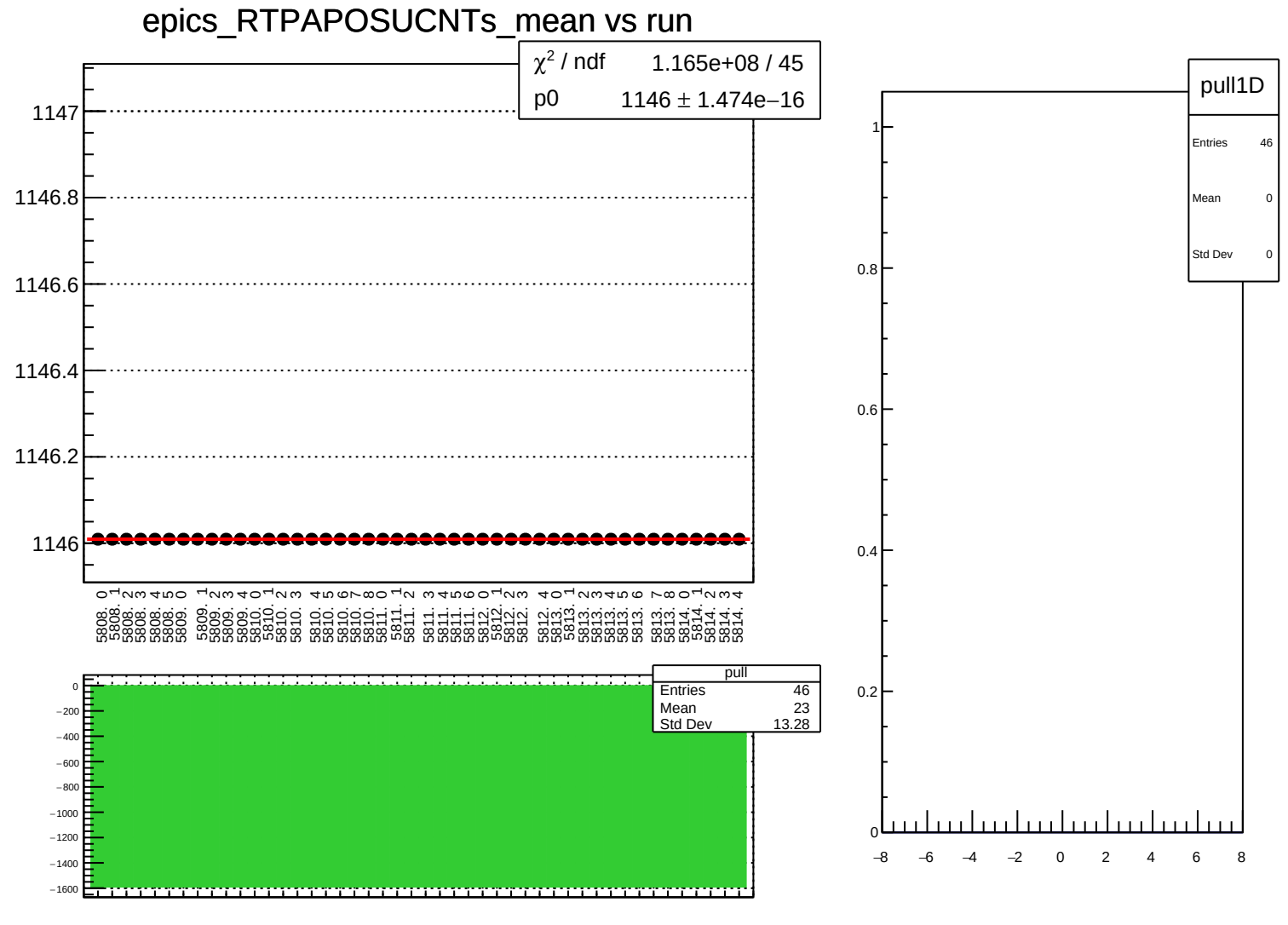

epics_psub_pl_poss_mean vs run
χ² / ndf 1.165e+08 / 45
p0 1468 ± 1.474e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

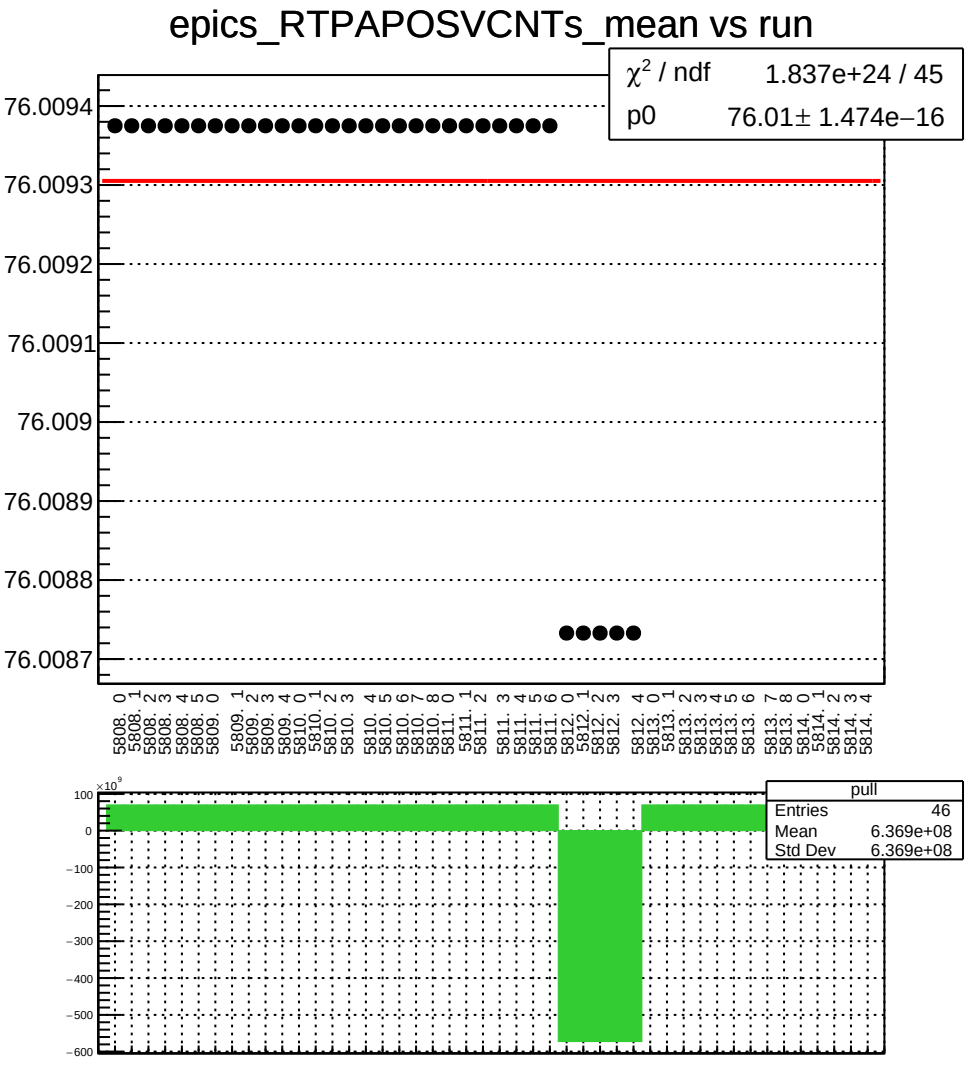

epics_Phi_FGs_mean vs run
χ² / ndf 1.486e+05 / 45
p0 89.96 ± 1.474e−16
91
90.8
90.6
90.4
90.2
90
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 23
Std Dev 13.28
50
40
30
20
10
0
pull1D
Entries 46
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 1.056e+25 / 36
p0 17.01± 1.644e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 37
Mean 1.192e+08
Std Dev 1.192e+08


pull1D
Entries 37
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 2.845e+04 / 45
p0 16.01± 1.474e−16
17
16.8
16.6
16.4
16.2
16
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−5
−10
−15
−20
−25
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 1.165e+08 / 45
p0 1146 ± 1.474e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 1.837e+24 / 45
p0 76.01± 1.474e−16
76.0094
76.0093
76.0092
76.0091
76.009
76.0089
76.0088
76.0087
5808. 0
5808. 1
5808. 2
5808. 3
5808. 4
5808. 5
5809. 0
5809. 1
5809. 2
5809. 3
5809. 4
5810. 0
5810. 1
5810. 2
5810. 3
5810. 4
5810. 5
5810. 6
5810. 7
5810. 8
5811. 0
5811. 1
5811. 2
5811. 3
5811. 4
5811. 5
5811. 6
5812. 0
5812. 1
5812. 2
5812. 3
5812. 4
5813. 0
5813. 1
5813. 2
5813. 3
5813. 4
5813. 5
5813. 6
5813. 7
5813. 8
5814. 0
5814. 1
5814. 2
5814. 3
5814. 4
×10⁹
100
0
−100
−200
−300
−400
−500
−600
pull
Entries 46
Mean 6.369e+08
Std Dev 6.369e+08
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8