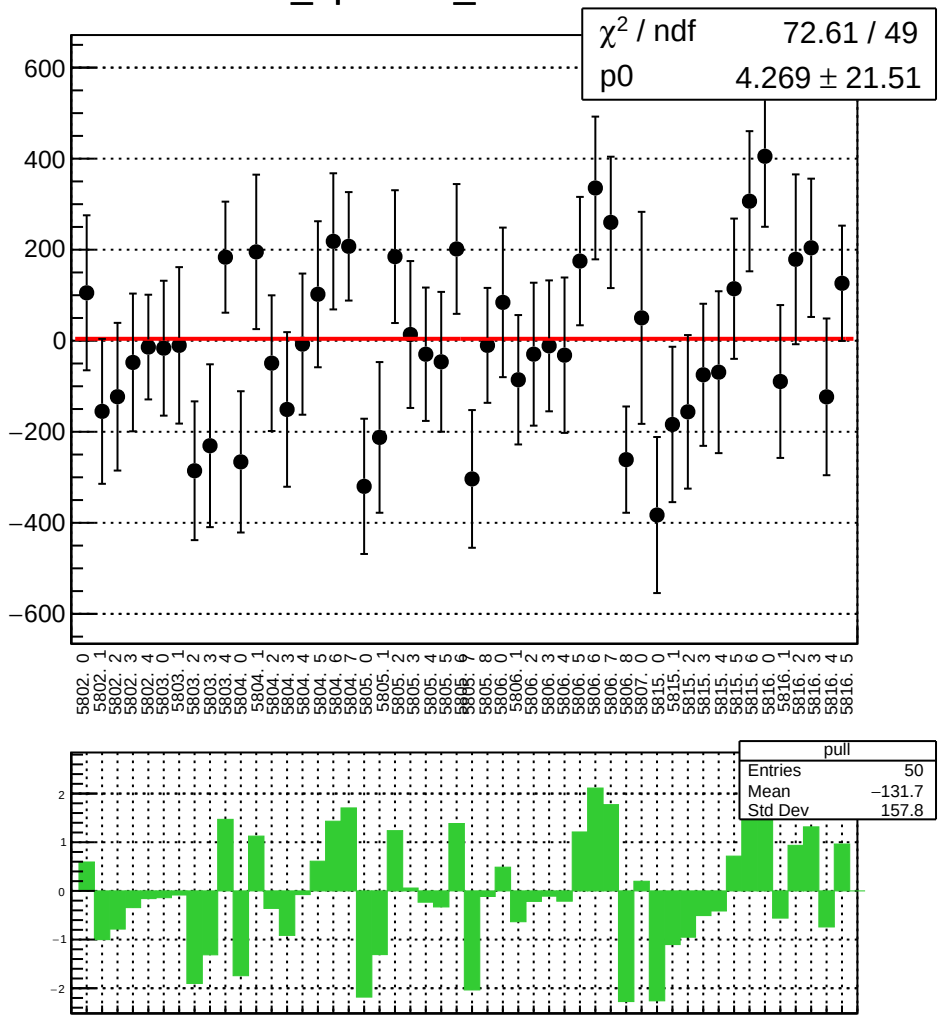
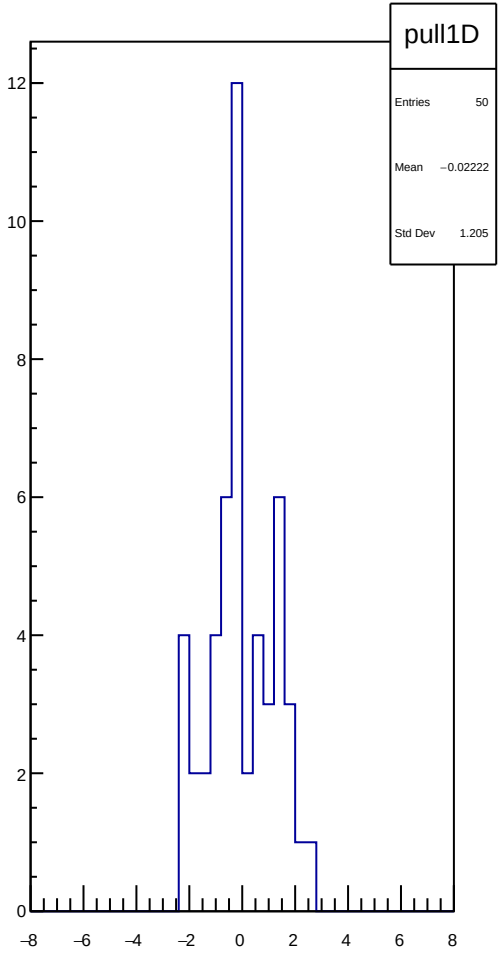
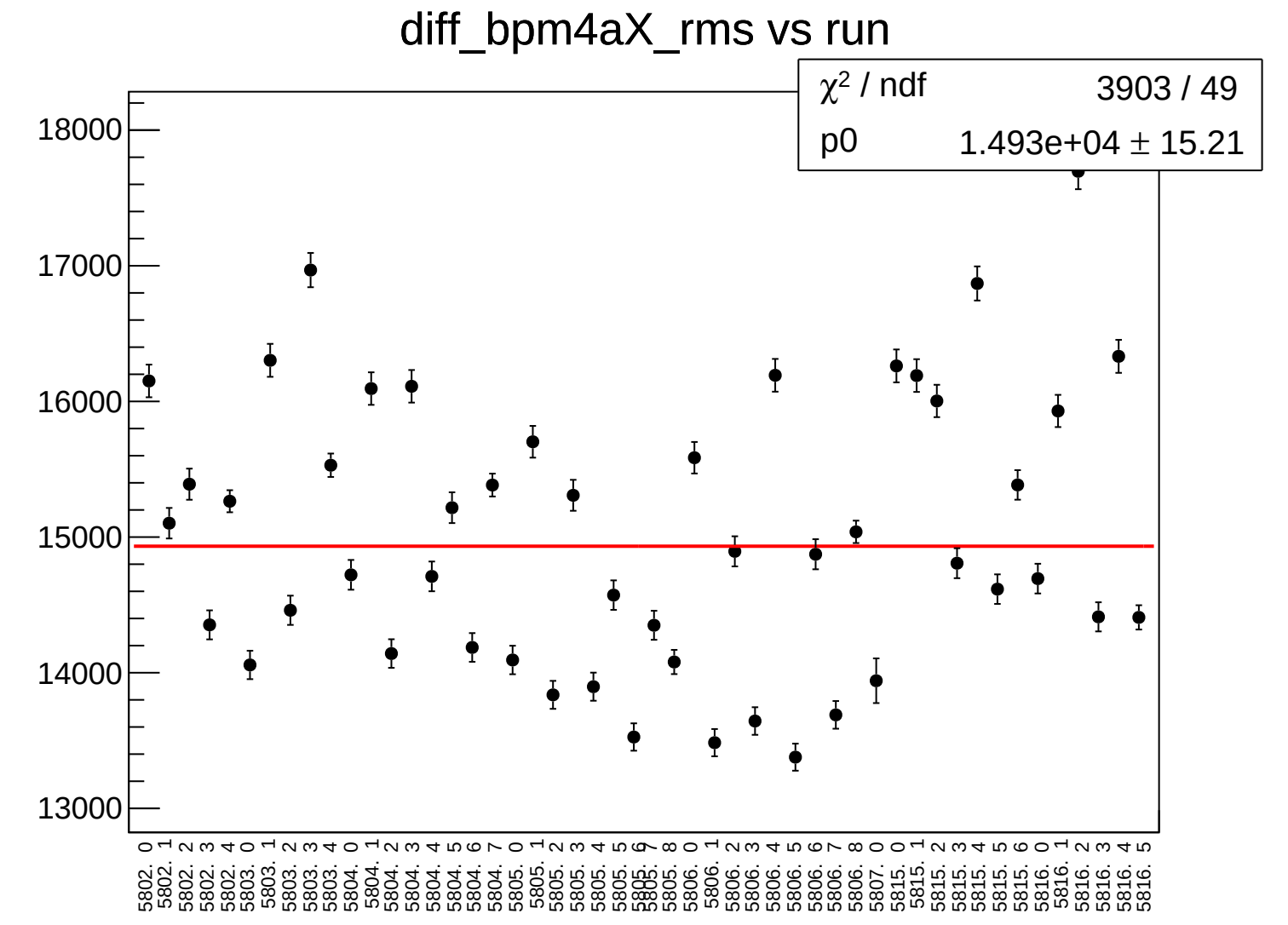

diff_bpm4aX_mean vs run
χ² / ndf 72.61 / 49
p0 4.269 ± 21.51
pull
Entries 50
Mean −131.7
Std Dev 157.8


pull1D
Entries 50
Mean −0.02222
Std Dev 1.205


diff_bpm4aX_rms vs run
χ² / ndf 3903 / 49
p0 1.493e+04 ± 15.21
18000
17000
16000
15000
14000
13000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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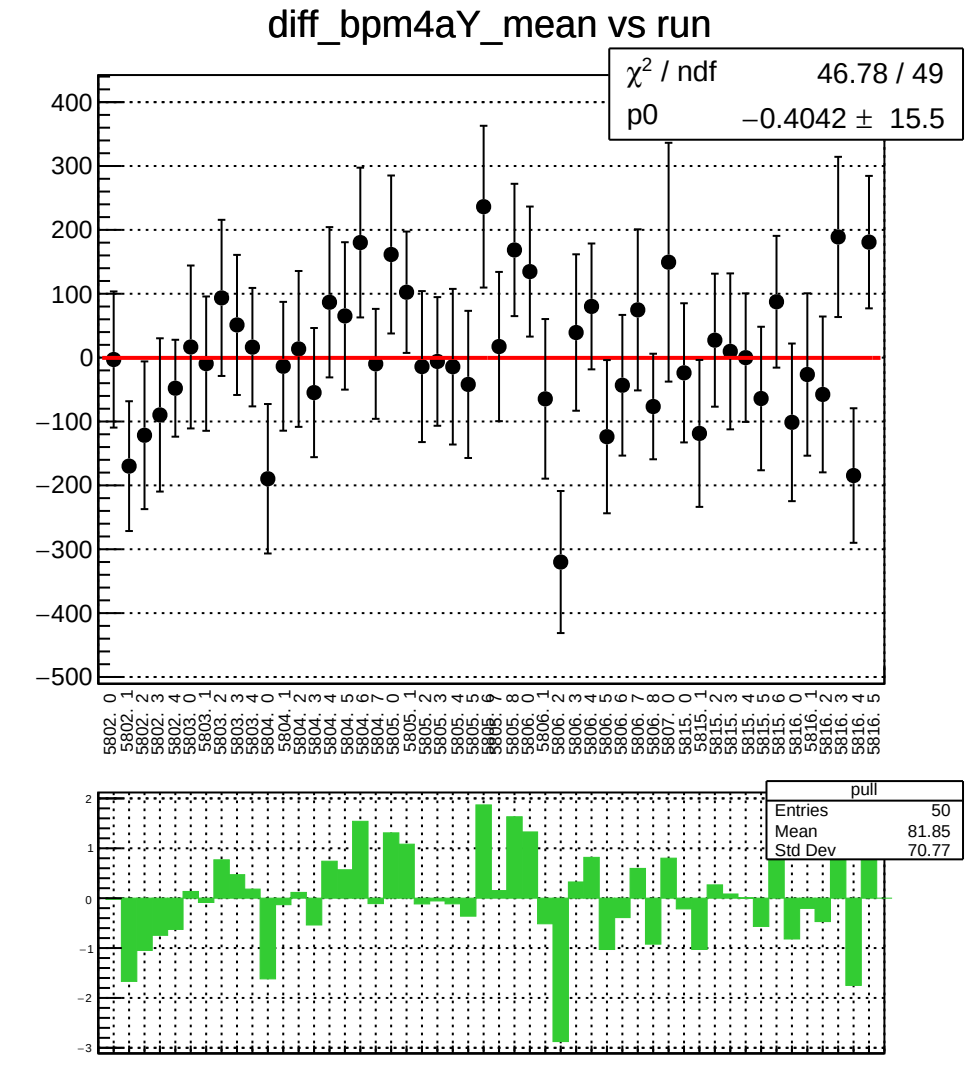
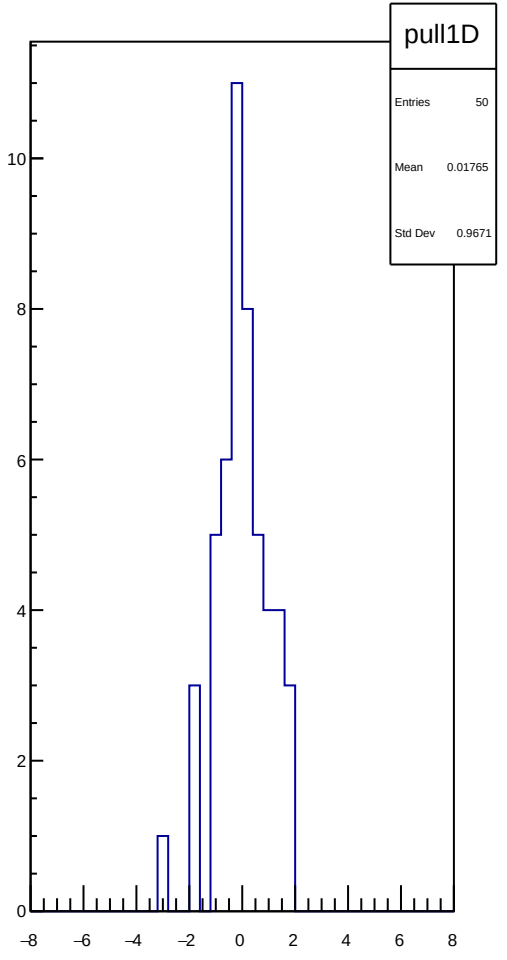
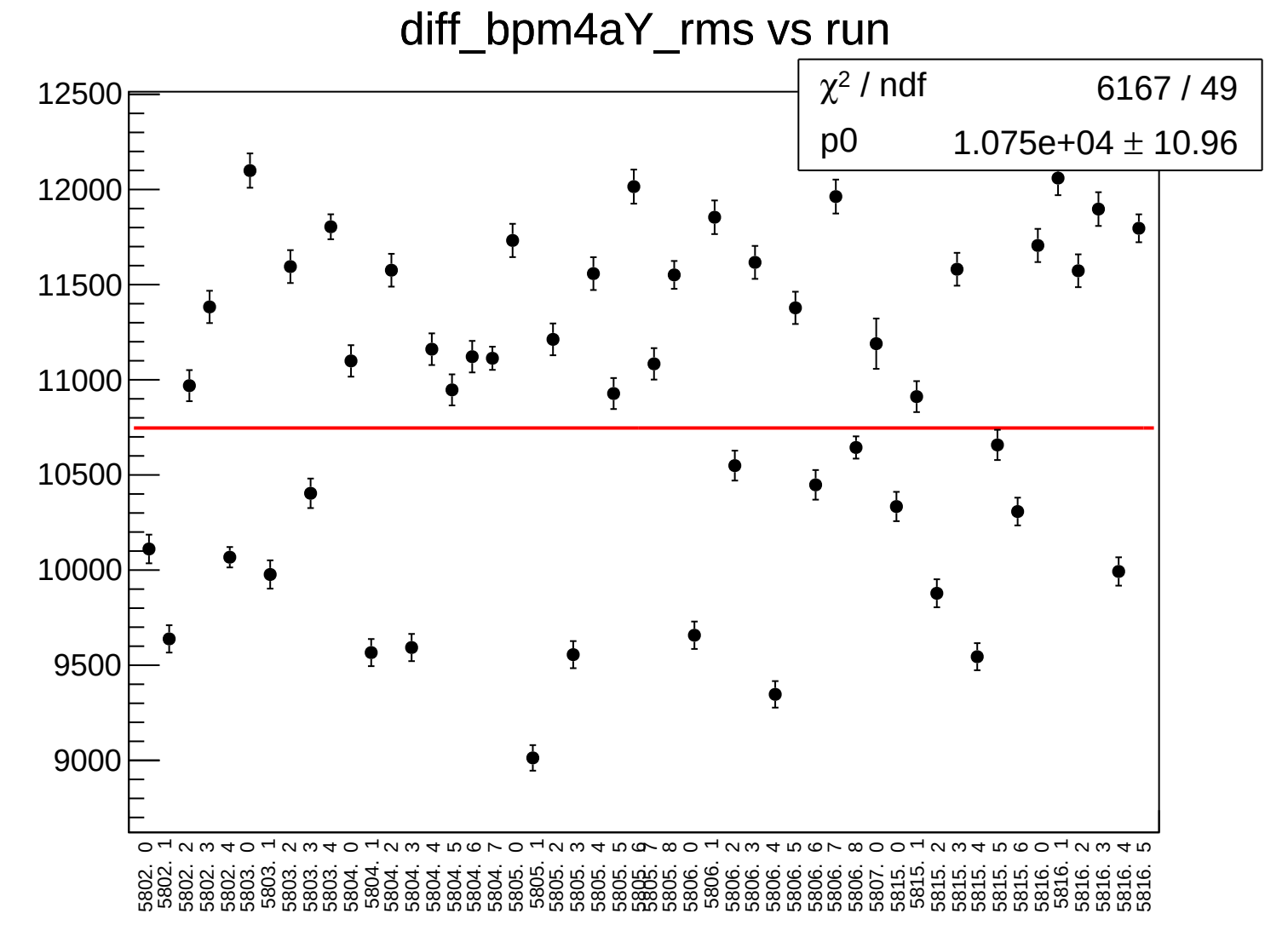
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm4aY_mean vs run
χ² / ndf 46.78 / 49
p0 −0.4042 ± 15.5
pull
Entries 50
Mean 81.85
Std Dev 70.77


pull1D
Entries 50
Mean 0.01765
Std Dev 0.9671


diff_bpm4aY_rms vs run
χ² / ndf 6167 / 49
p0 1.075e+04 ± 10.96
12500
12000
11500
11000
10500
10000
9500
9000
5802. 0
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5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
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5815. 5
5815. 6
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5816. 2
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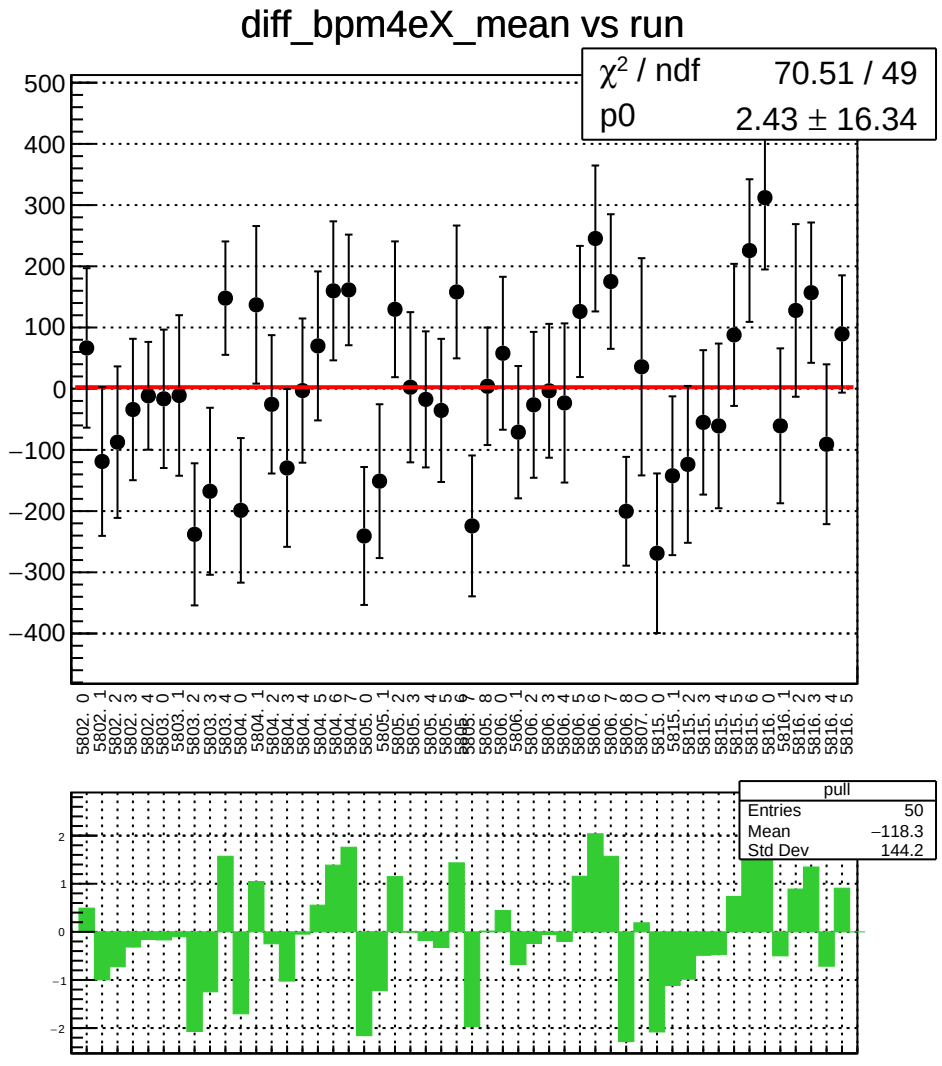
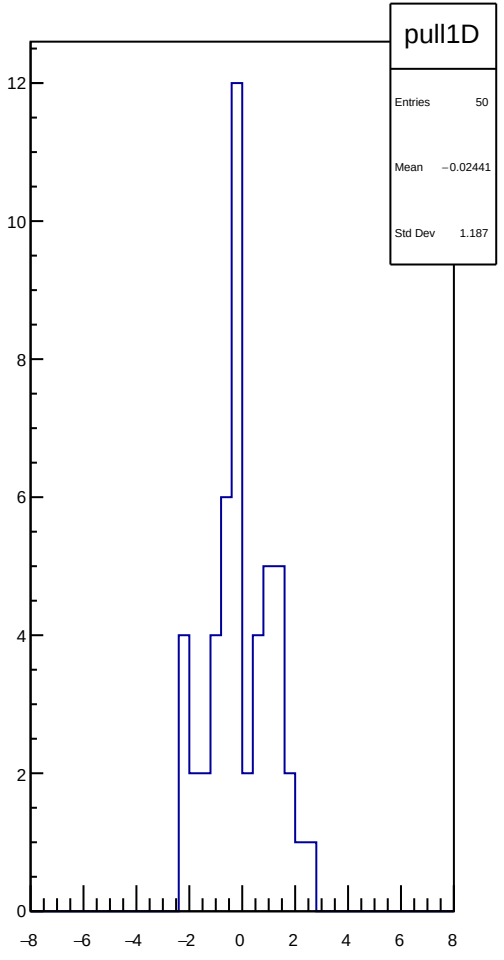
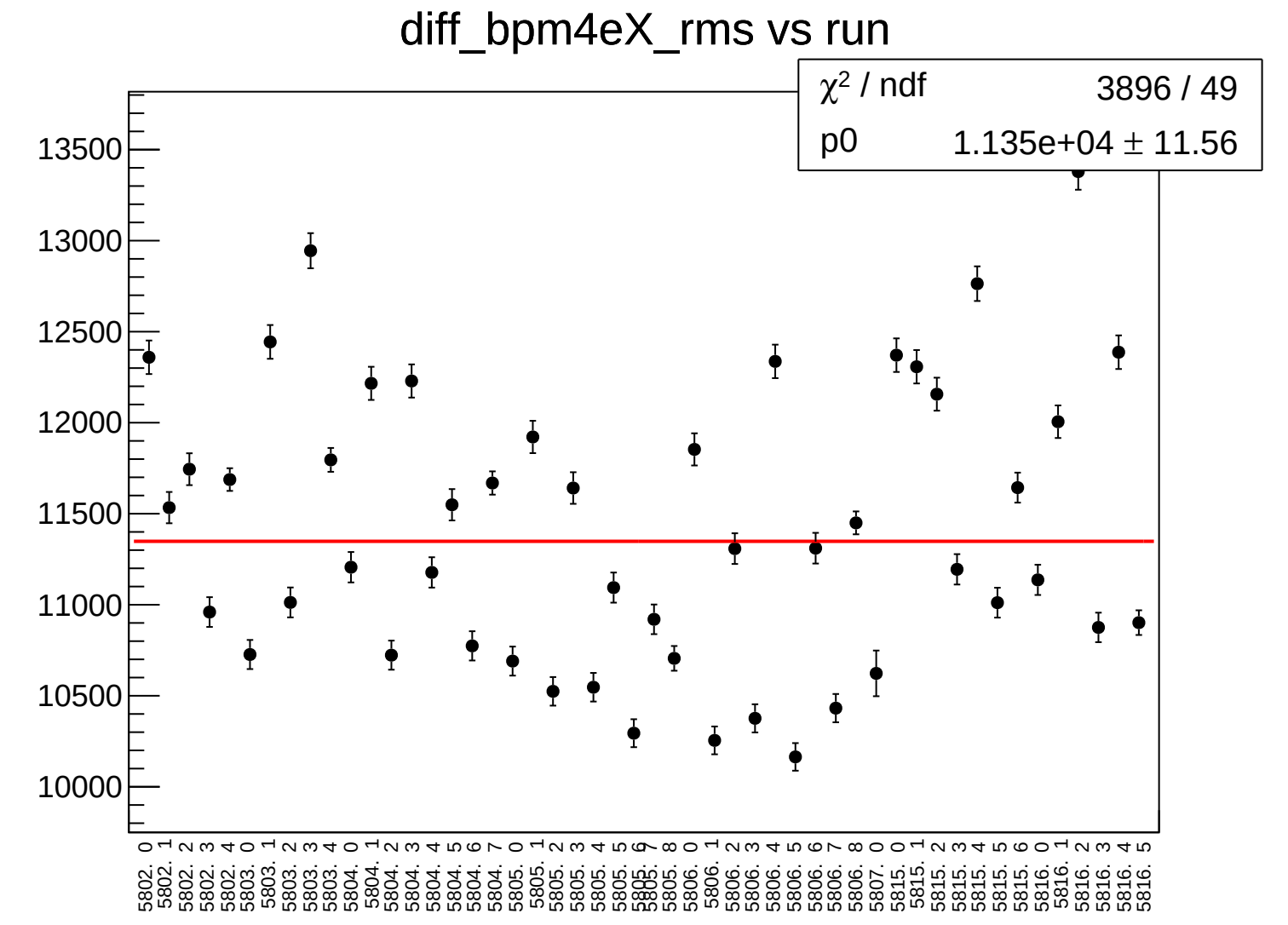
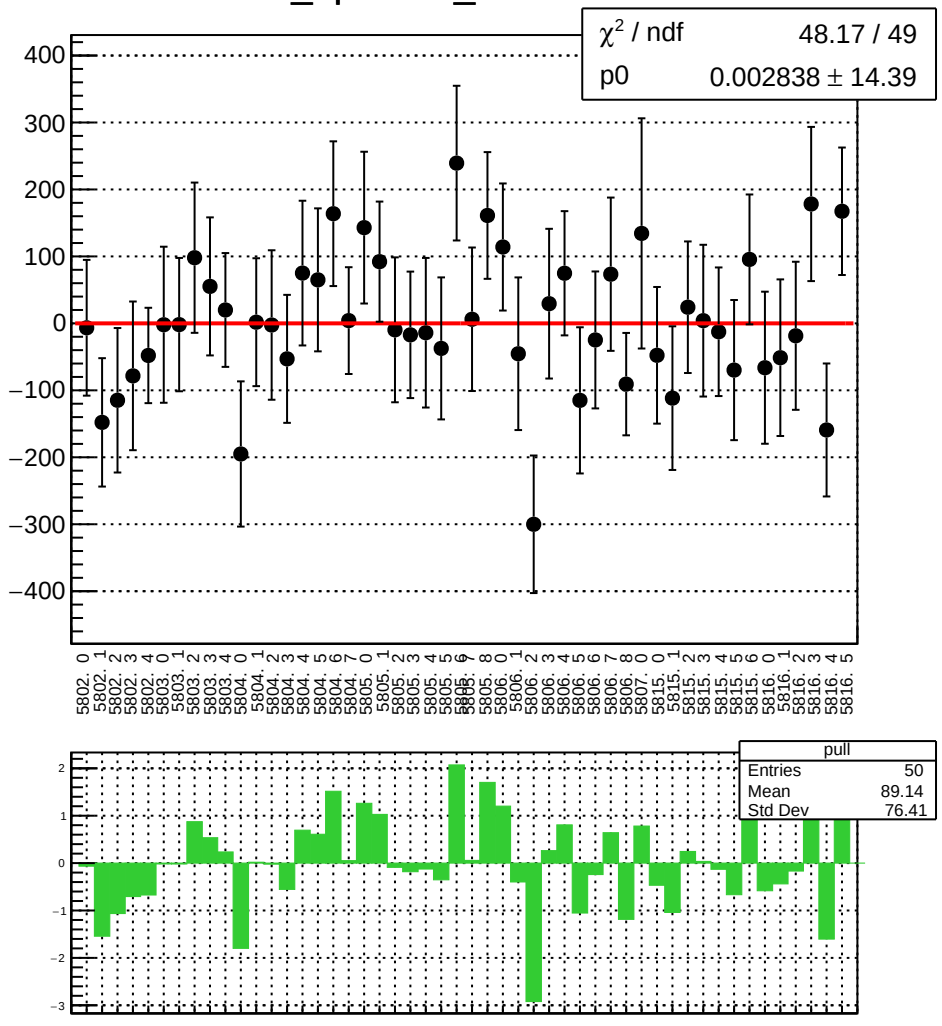
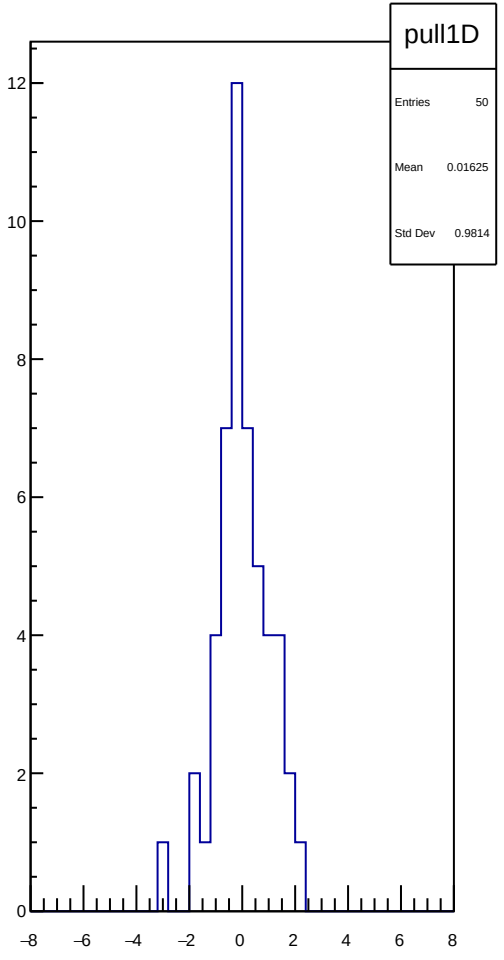
5816. 4
5816. 5

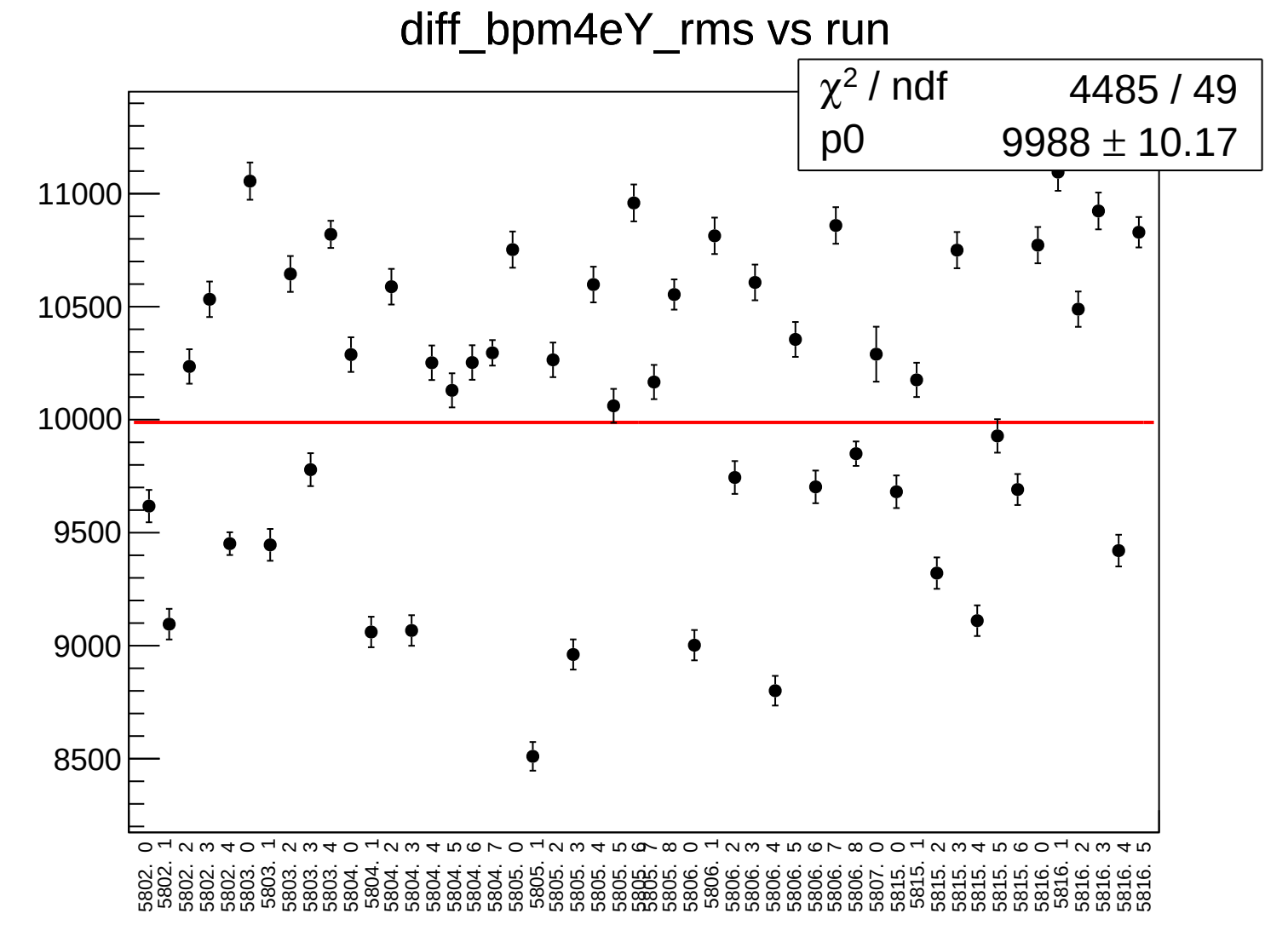

diff_bpm4eX_mean vs run
χ² / ndf 70.51 / 49
p0 2.43 ± 16.34
pull
Entries 50
Mean −118.3
Std Dev 144.2


pull1D
Entries 50
Mean −0.02441
Std Dev 1.187


diff_bpm4eX_rms vs run
χ² / ndf 3896 / 49
p0 1.135e+04 ± 11.56
13500
13000
12500
12000
11500
11000
10500
10000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm4eY_mean vs run
χ² / ndf 48.17 / 49
p0 0.002838 ± 14.39
pull
Entries 50
Mean 89.14
Std Dev 76.41


pull1D
Entries 50
Mean 0.01625
Std Dev 0.9814


diff_bpm4eY_rms vs run
χ² / ndf 4485 / 49
p0 9988 ± 10.17
11000
10500
10000
9500
9000
8500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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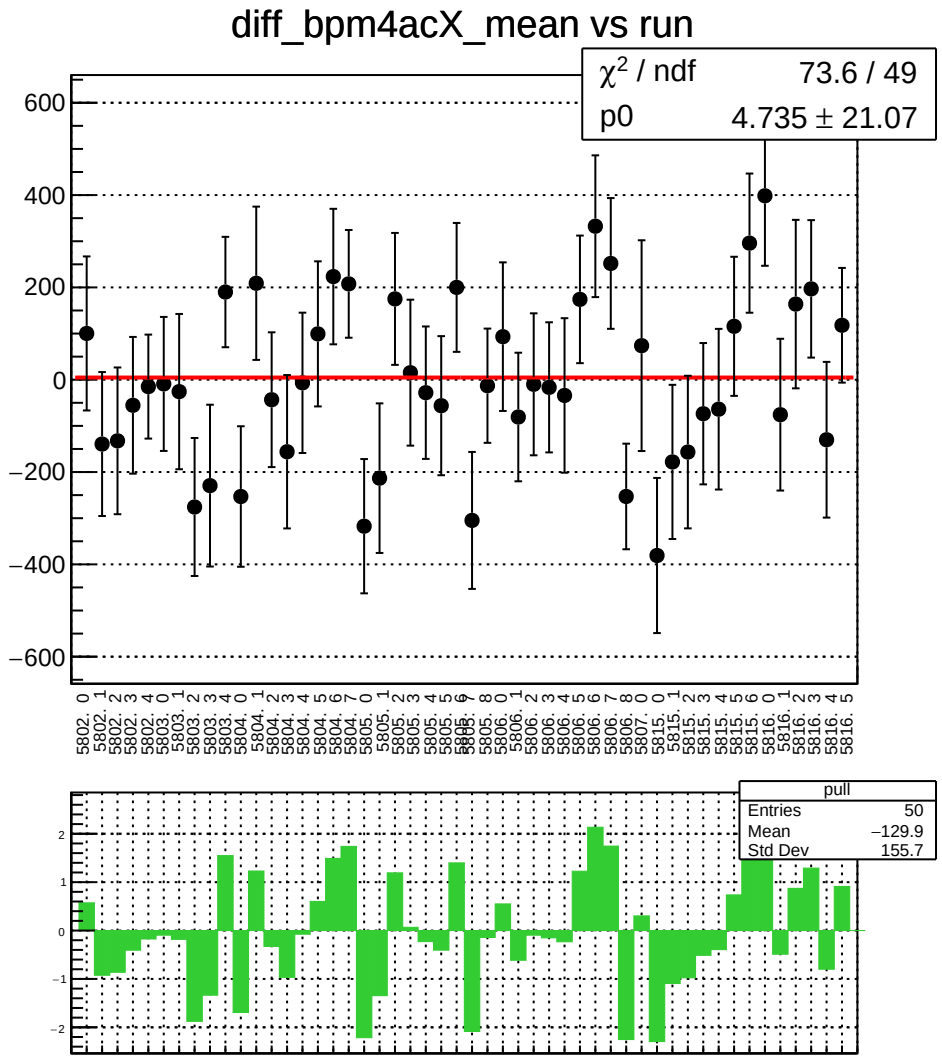
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm4acX_mean vs run
χ^2 / ndf 73.6 / 49
p0 4.735 ± 21.07
600
400
200
0
−200
−400
−600
5802. 0
5802. 1
5802. 2
5802. 3
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5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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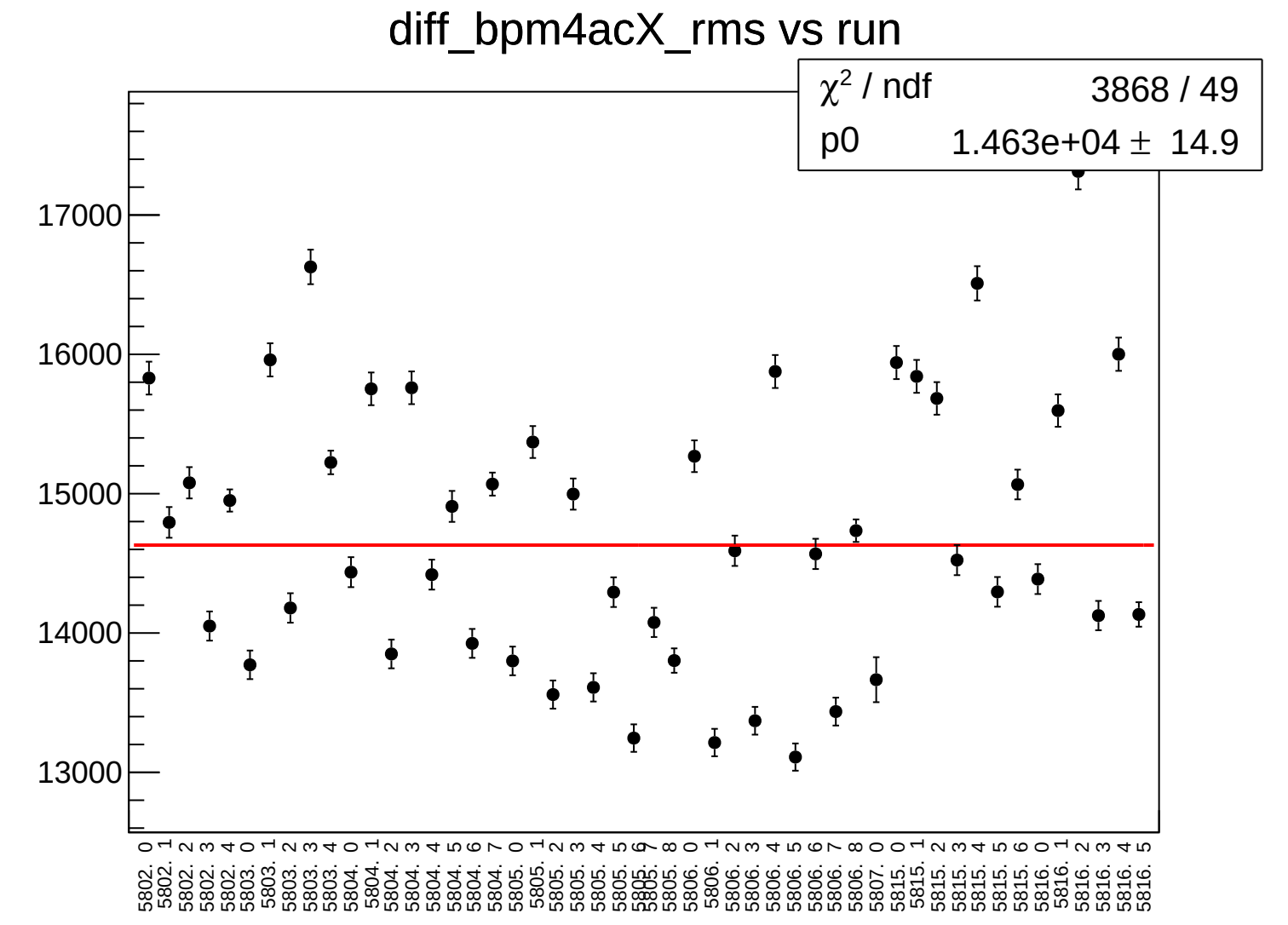
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −129.9
Std Dev 155.7
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.02223
Std Dev 1.213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acX_rms vs run
χ² / ndf 3868 / 49
p0 1.463e+04 ± 14.9
17000
16000
15000
14000
13000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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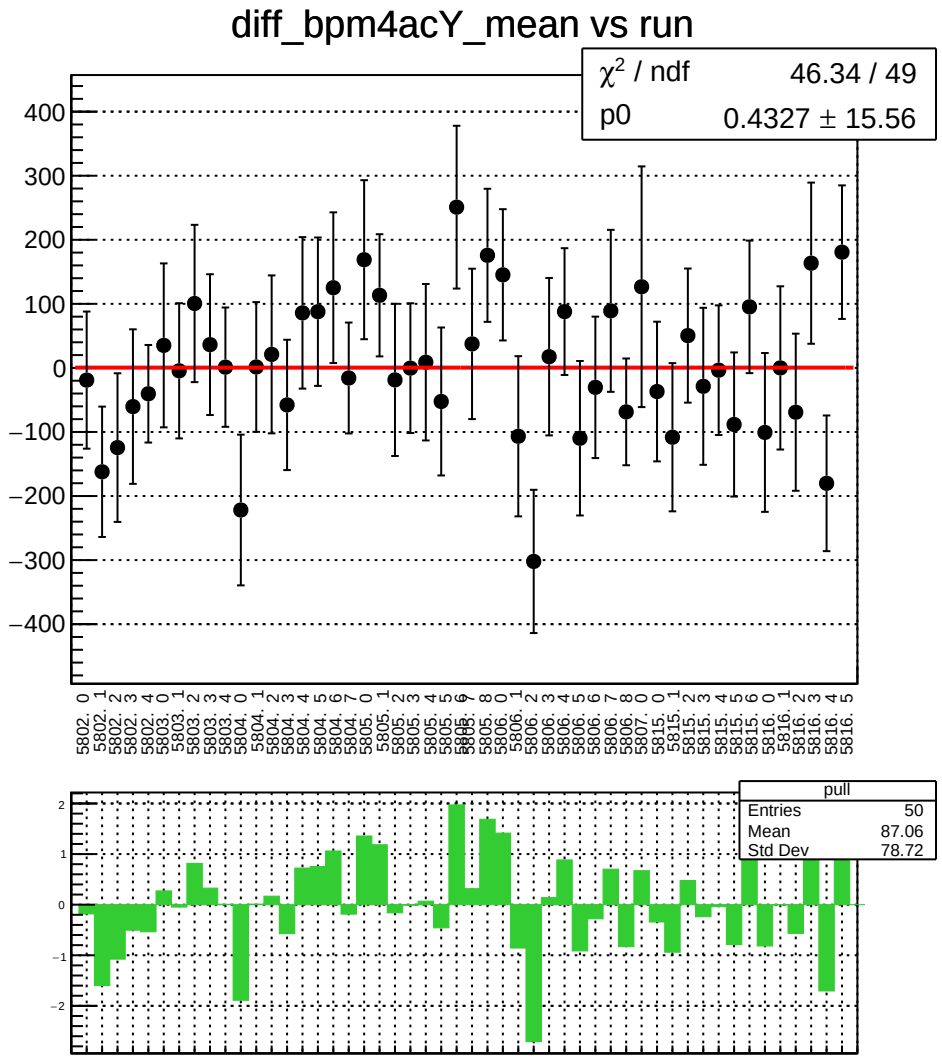
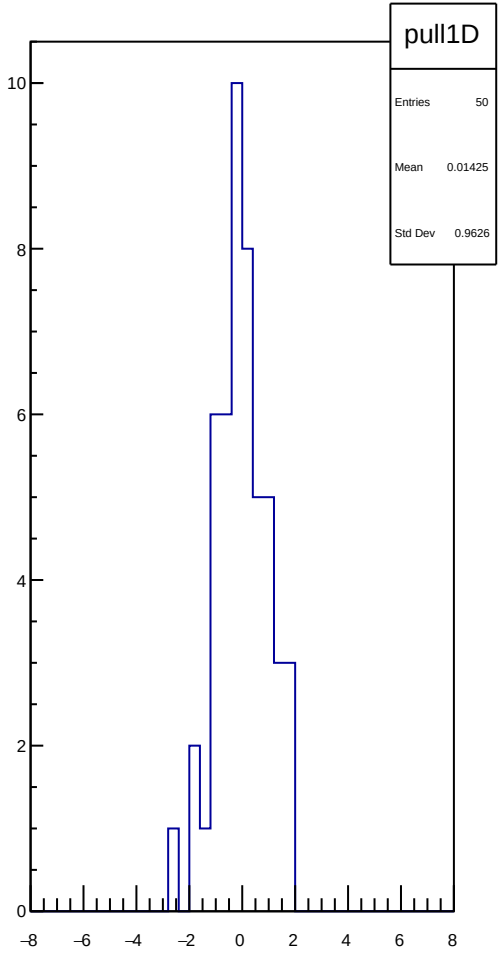
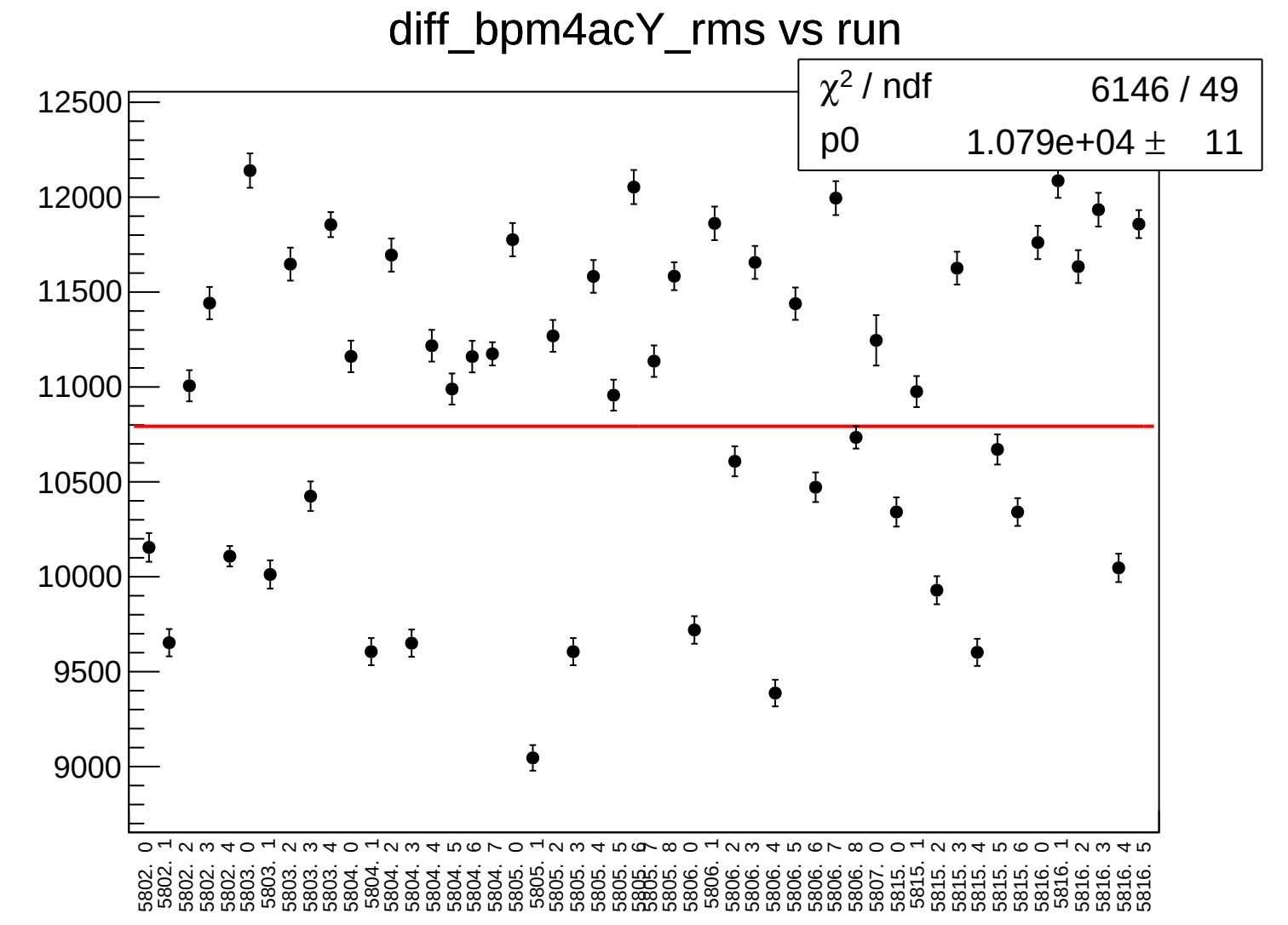
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm4acY_mean vs run
χ² / ndf 46.34 / 49
p0 0.4327 ± 15.56
pull
Entries 50
Mean 87.06
Std Dev 78.72


pull1D
Entries 50
Mean 0.01425
Std Dev 0.9626


diff_bpm4acY_rms vs run
χ² / ndf 6146 / 49
p0 1.079e+04 ± 11
12500
12000
11500
11000
10500
10000
9500
9000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
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5803. 4
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5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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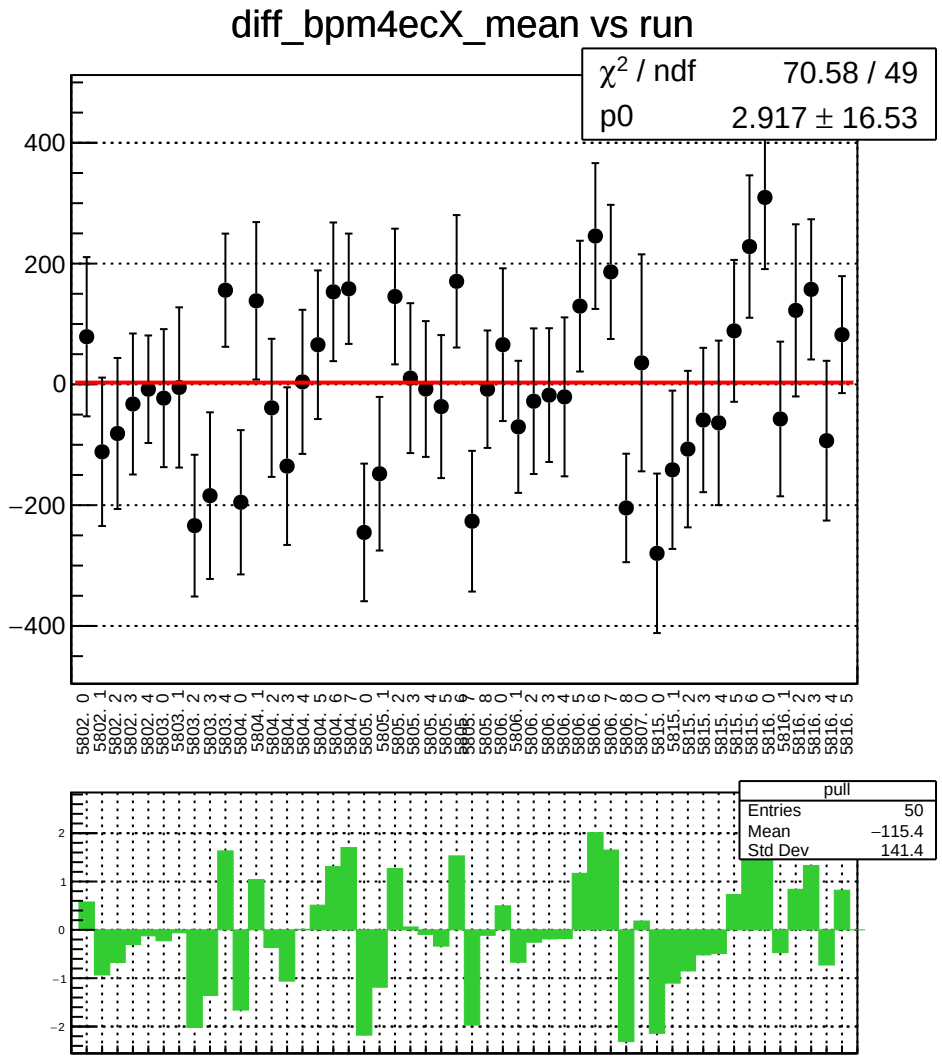
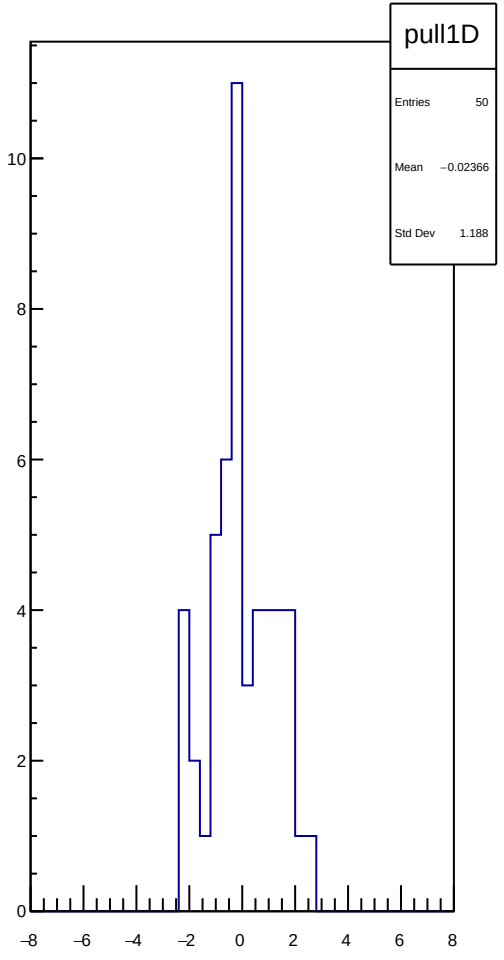
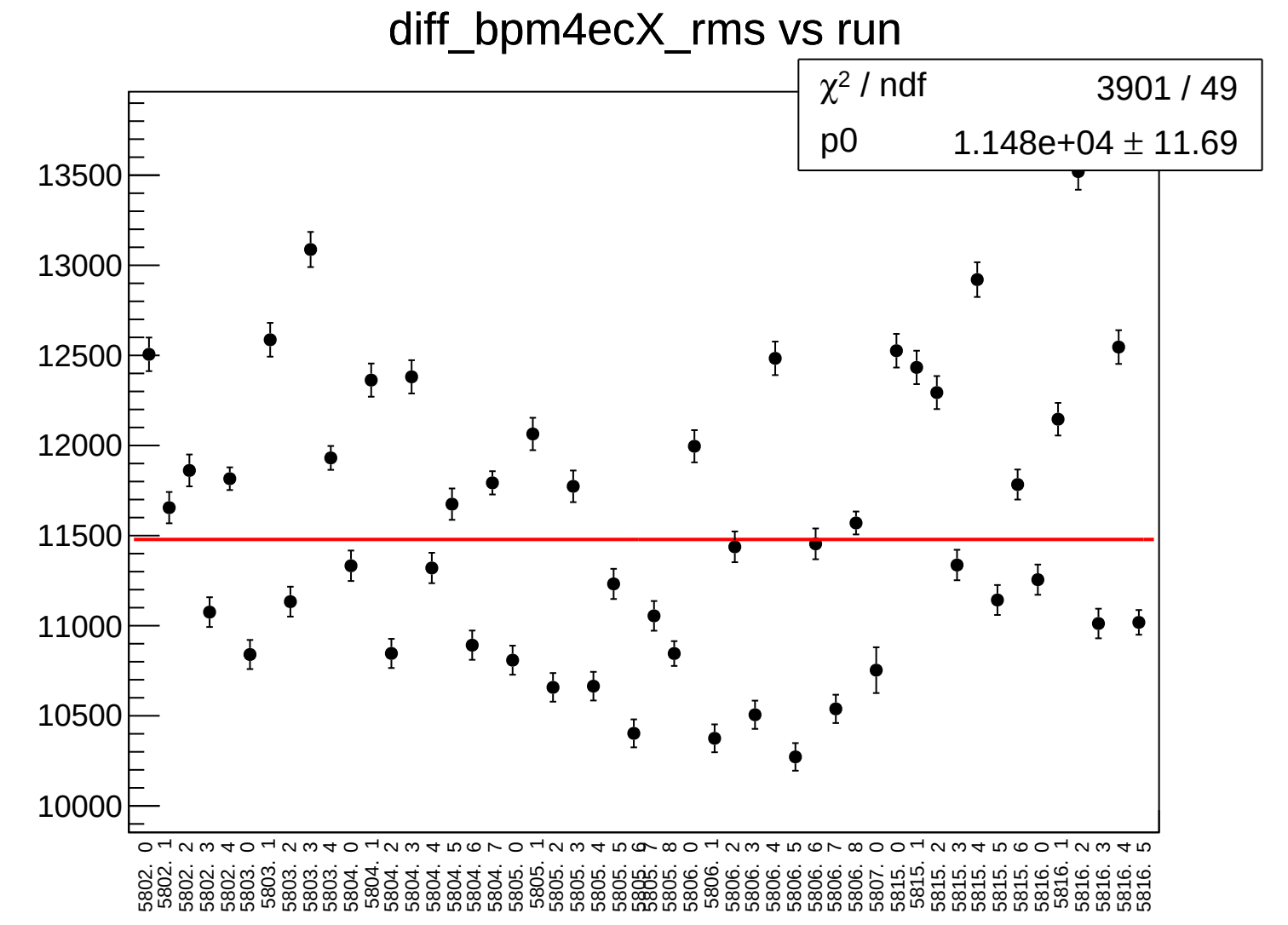
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm4ecX_mean vs run
χ² / ndf 70.58 / 49
p0 2.917 ± 16.53
400
200
0
−200
−400
pull
Entries 50
Mean −115.4
Std Dev 141.4
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.02366
Std Dev 1.188
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecX_rms vs run
χ² / ndf 3901 / 49
p0 1.148e+04 ± 11.69
13500
13000
12500
12000
11500
11000
10500
10000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
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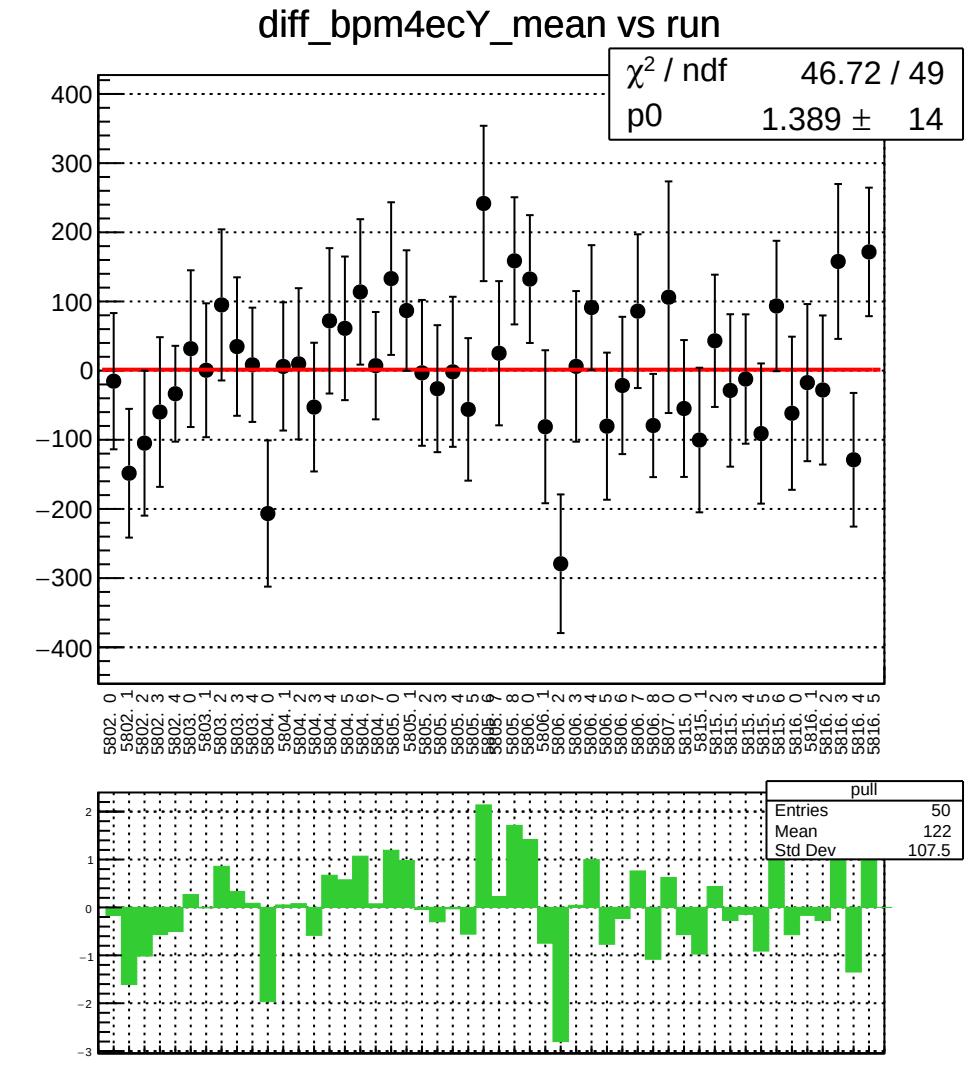
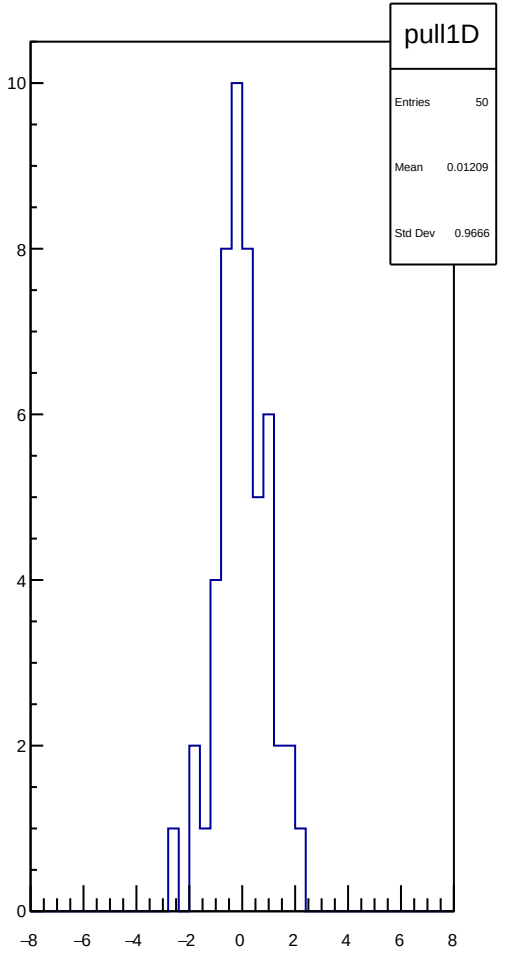
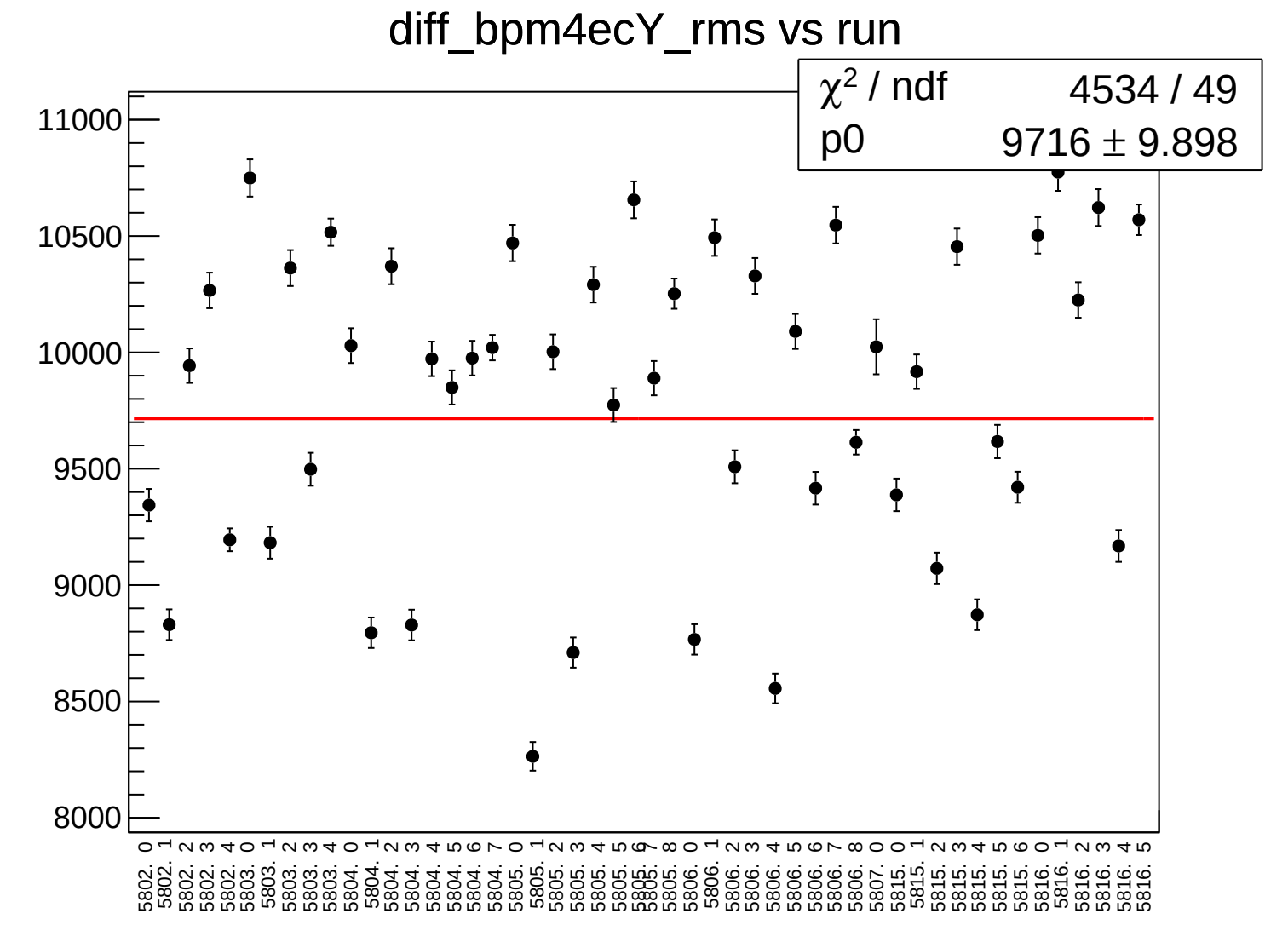
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm4ecY_mean vs run
χ² / ndf 46.72 / 49
p0 1.389 ± 14
pull
Entries 50
Mean 122
Std Dev 107.5


pull1D
Entries 50
Mean 0.01209
Std Dev 0.9666


diff_bpm4ecY_rms vs run
χ² / ndf 4534 / 49
p0 9716 ± 9.898
11000
10500
10000
9500
9000
8500
8000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
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5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
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5816. 2
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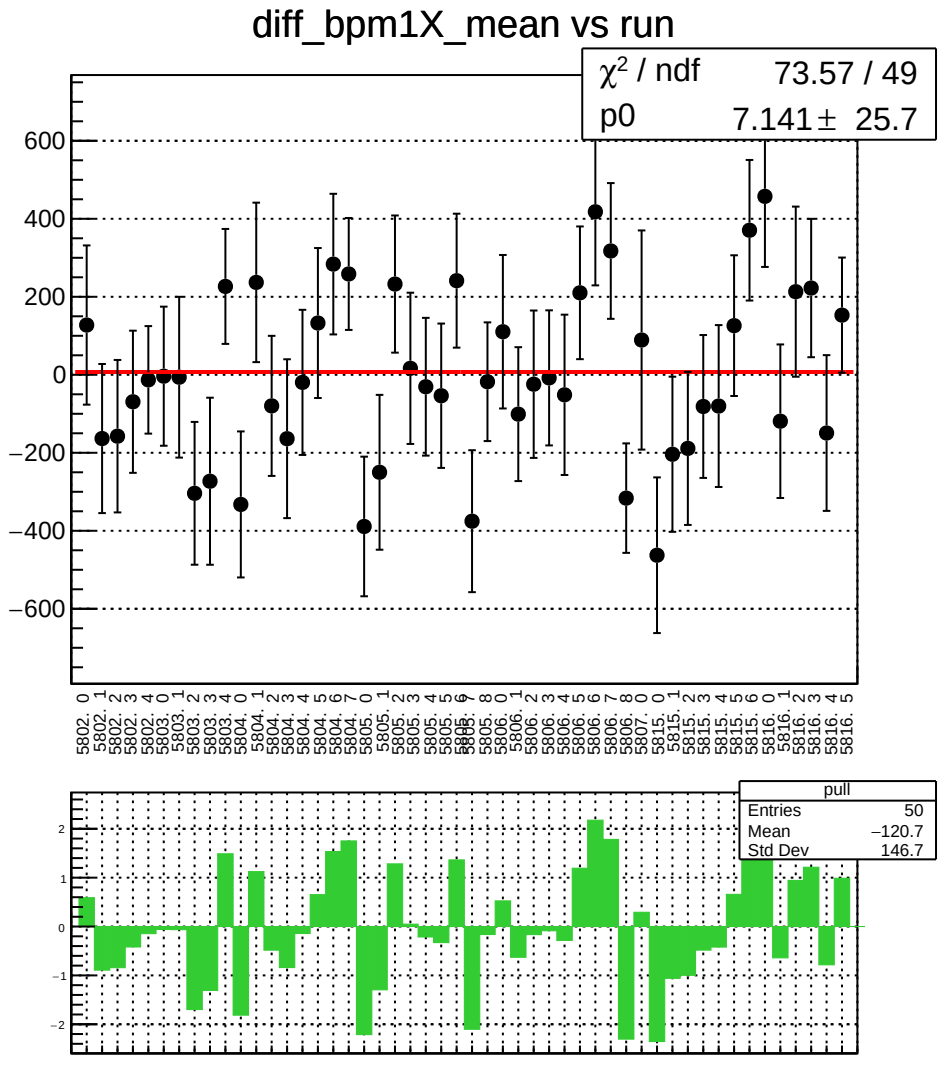
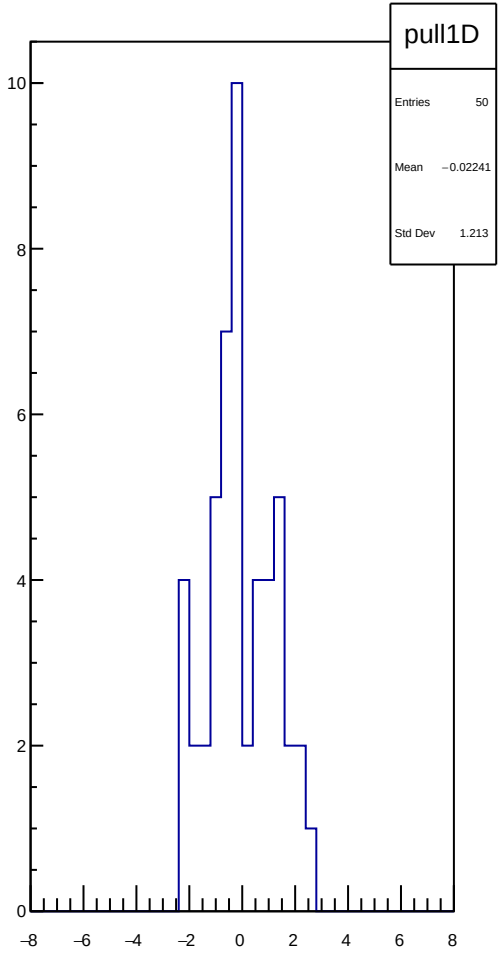
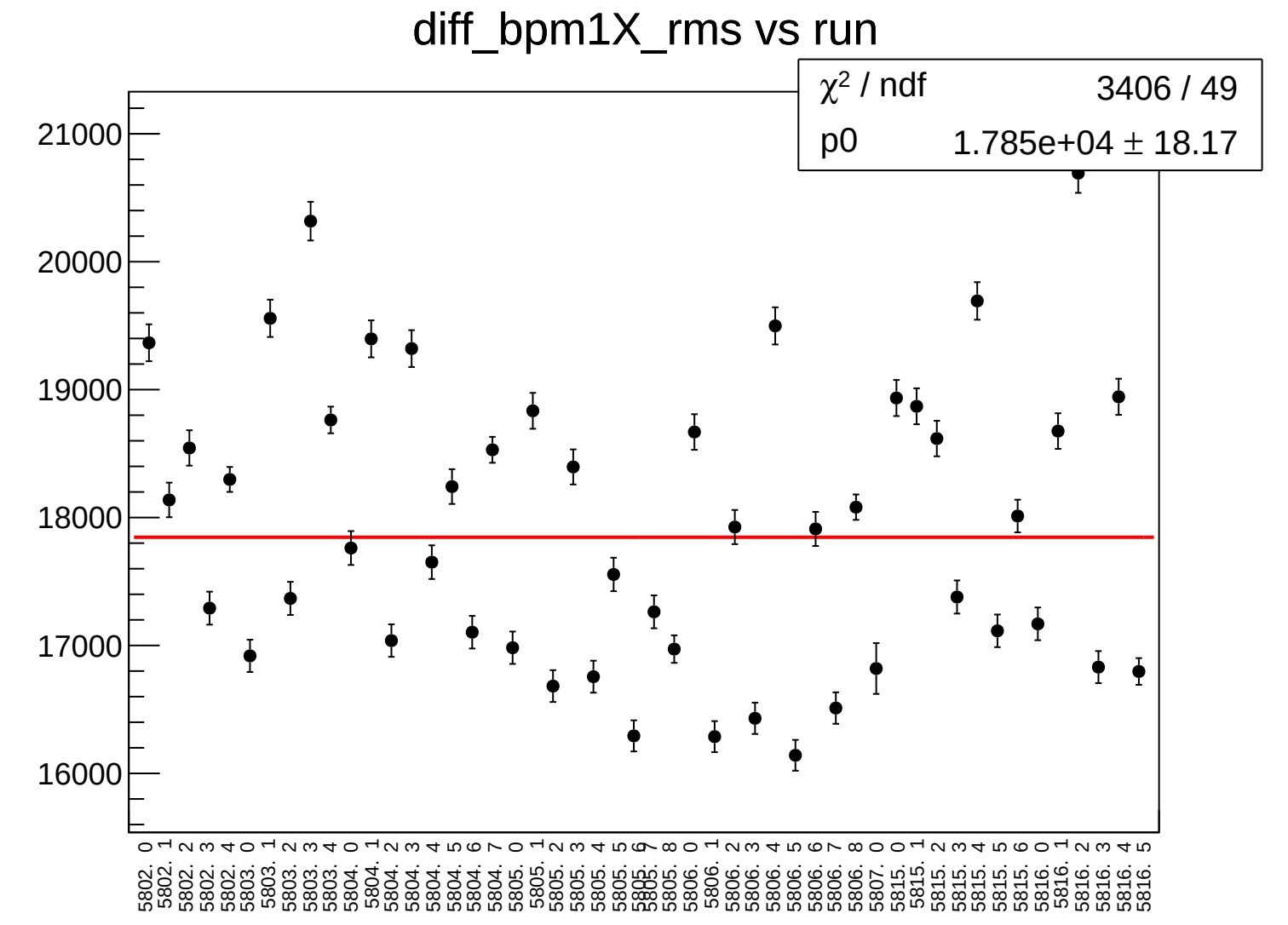
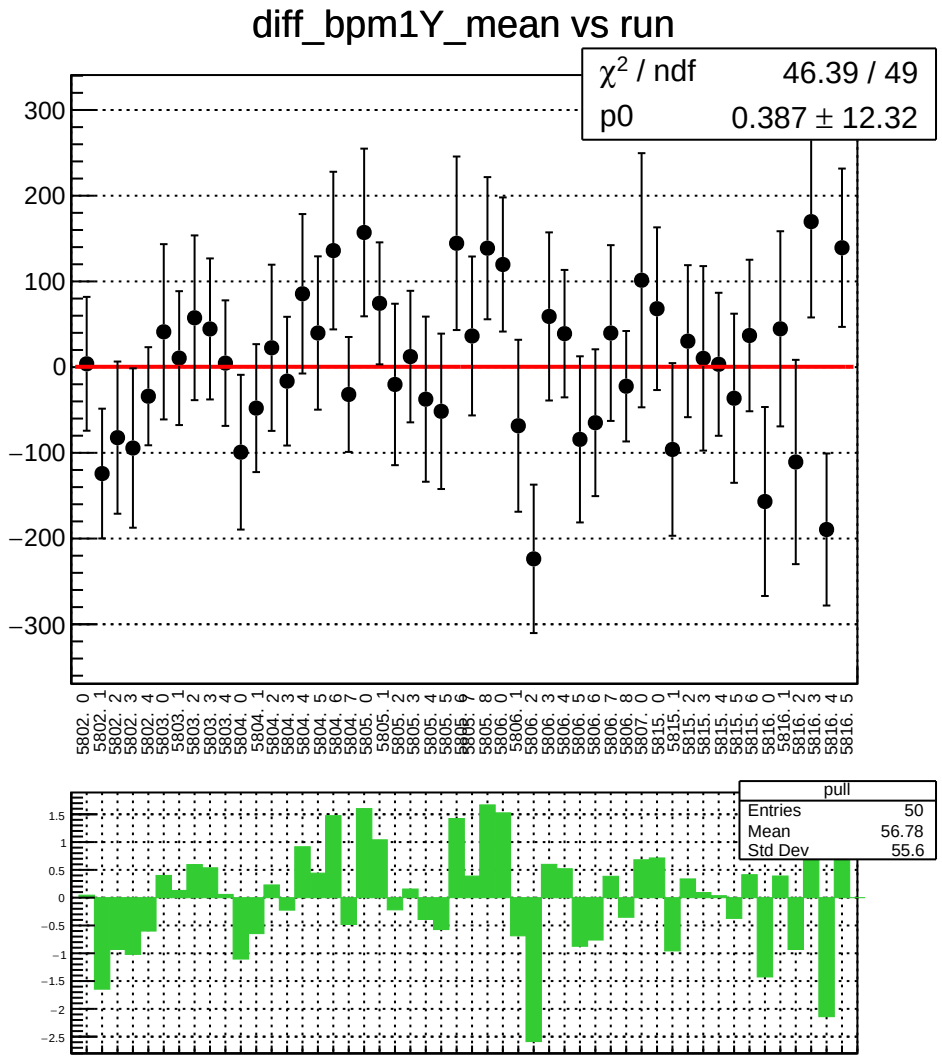
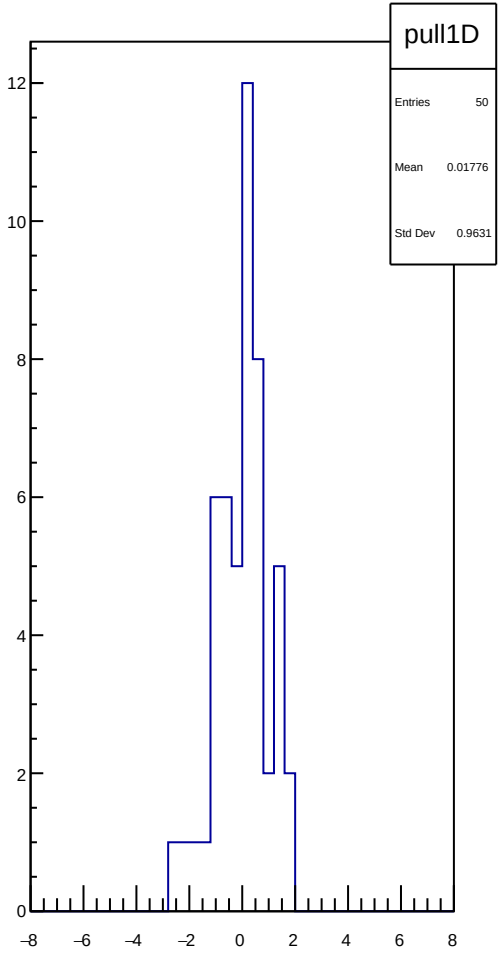
5816. 4
5816. 5

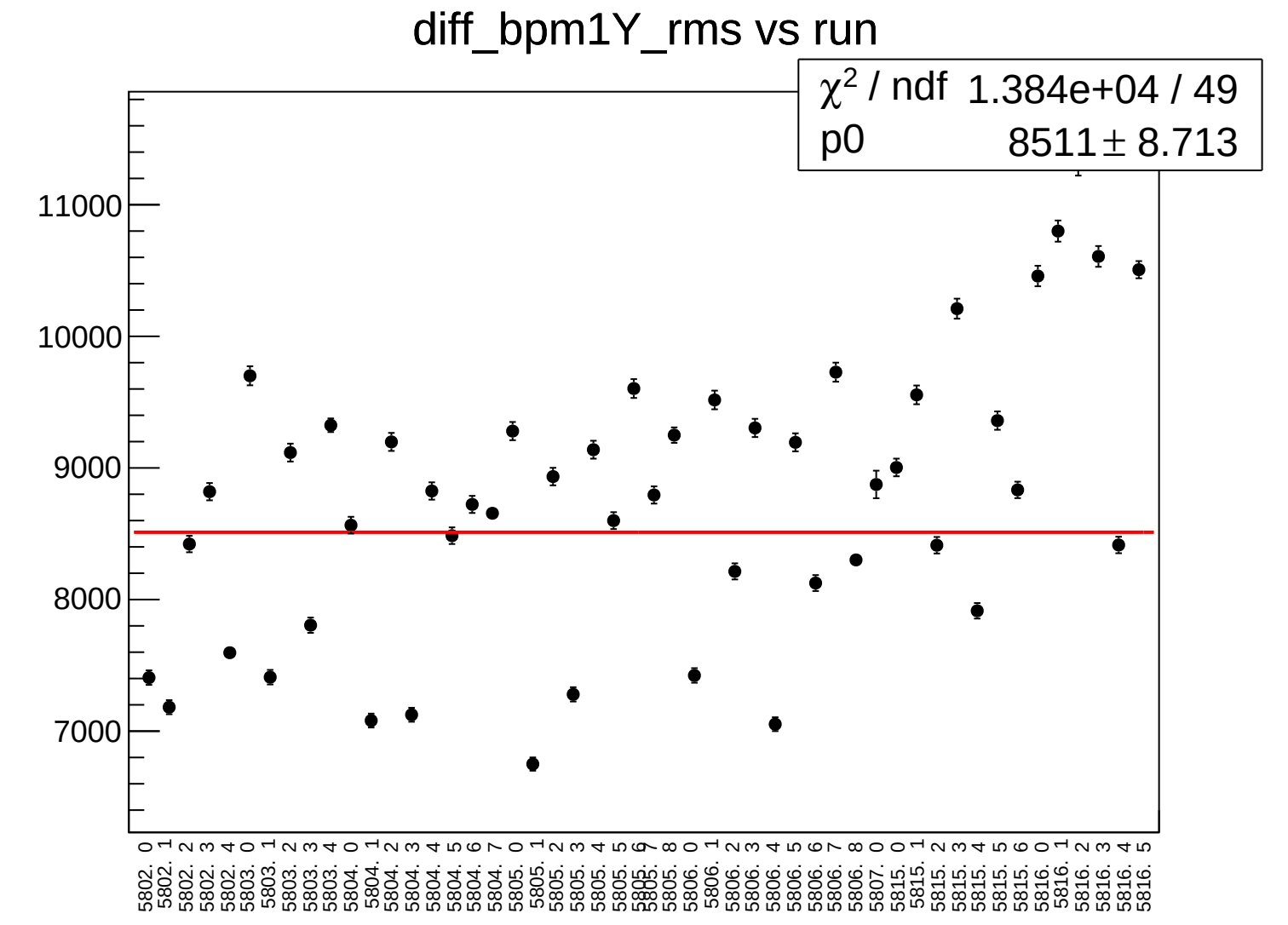

diff_bpm1X_mean vs run
χ² / ndf 73.57 / 49
p0 7.141 ± 25.7
600
400
200
0
−200
−400
−600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −120.7
Std Dev 146.7
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.02241
Std Dev 1.213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1X_rms vs run
χ² / ndf 3406 / 49
p0 1.785e+04 ± 18.17
21000
20000
19000
18000
17000
16000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm1Y_mean vs run
χ² / ndf 46.39 / 49
p0 0.387 ± 12.32
pull
Entries 50
Mean 56.78
Std Dev 55.6


pull1D
Entries 50
Mean 0.01776
Std Dev 0.9631


diff_bpm1Y_rms vs run
χ² / ndf 1.384e+04 / 49
p0 8511 ± 8.713
11000
10000
9000
8000
7000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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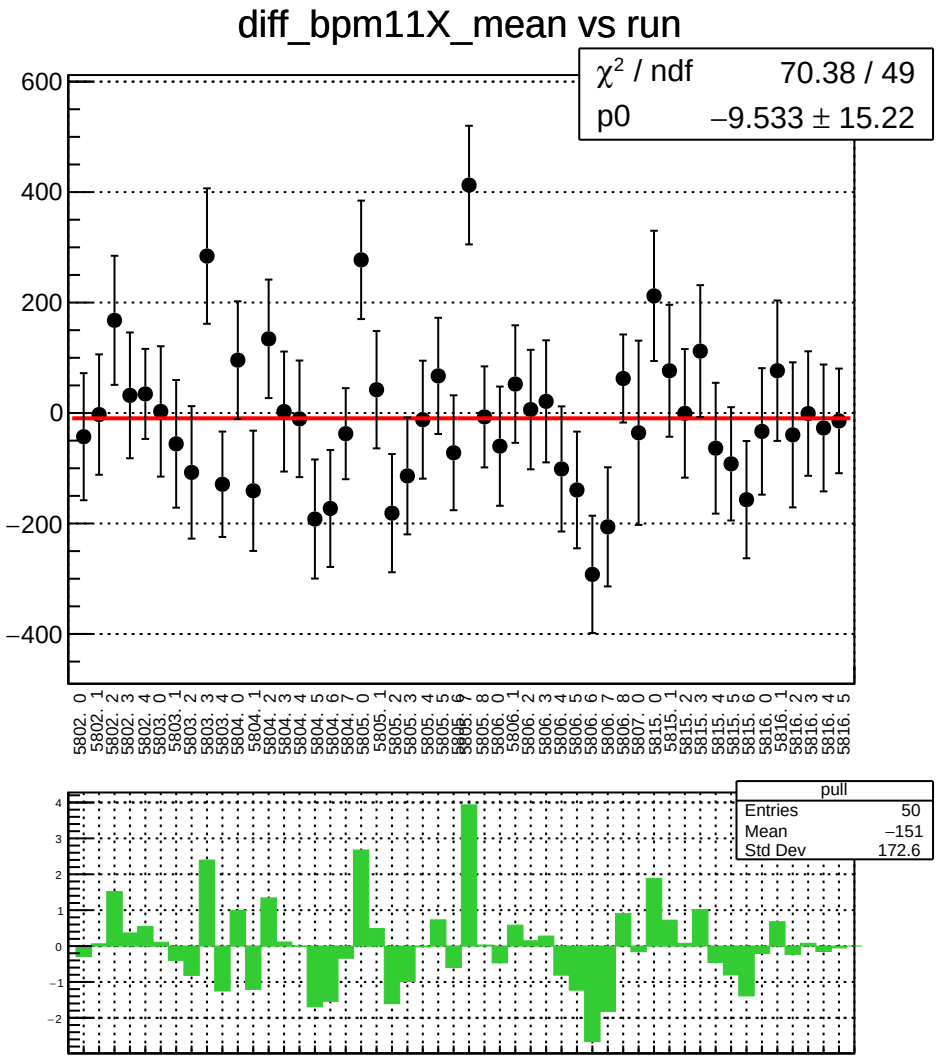
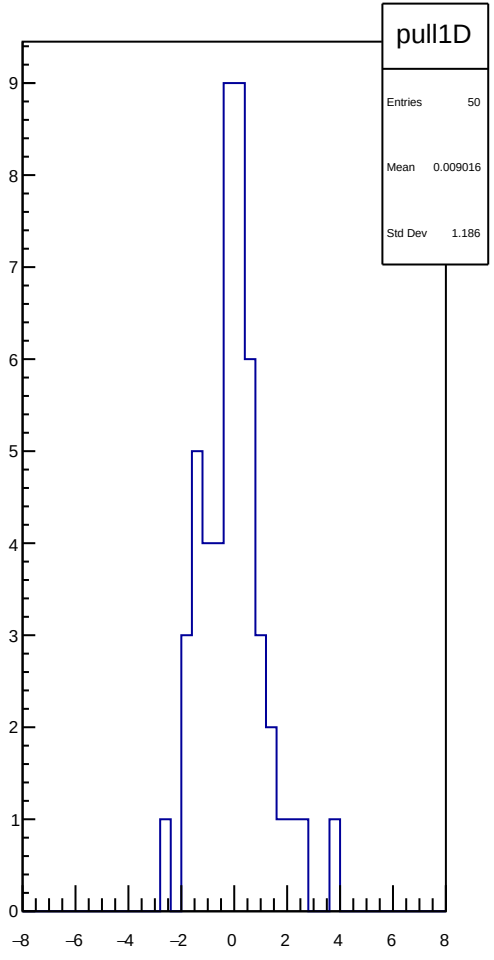
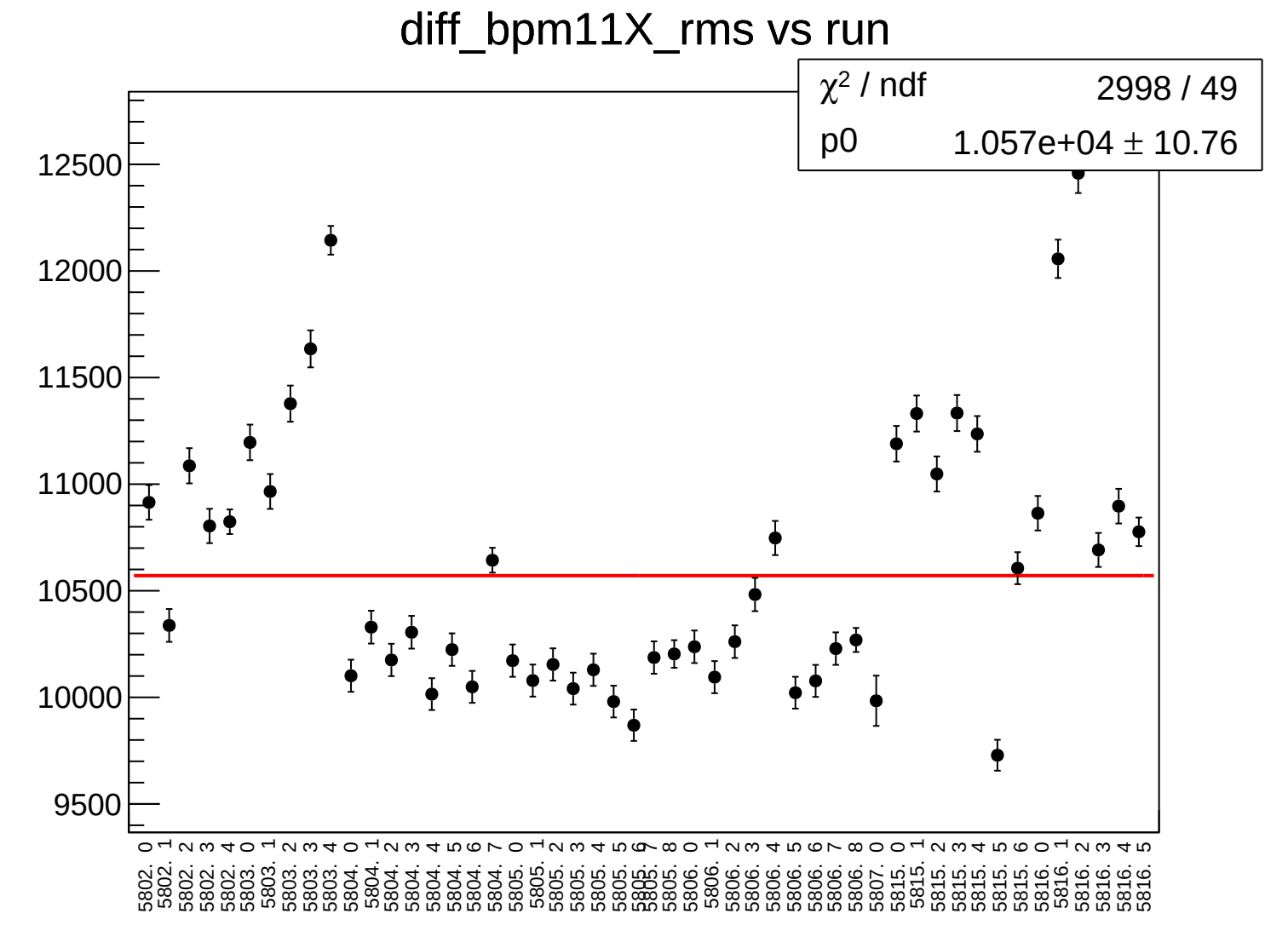
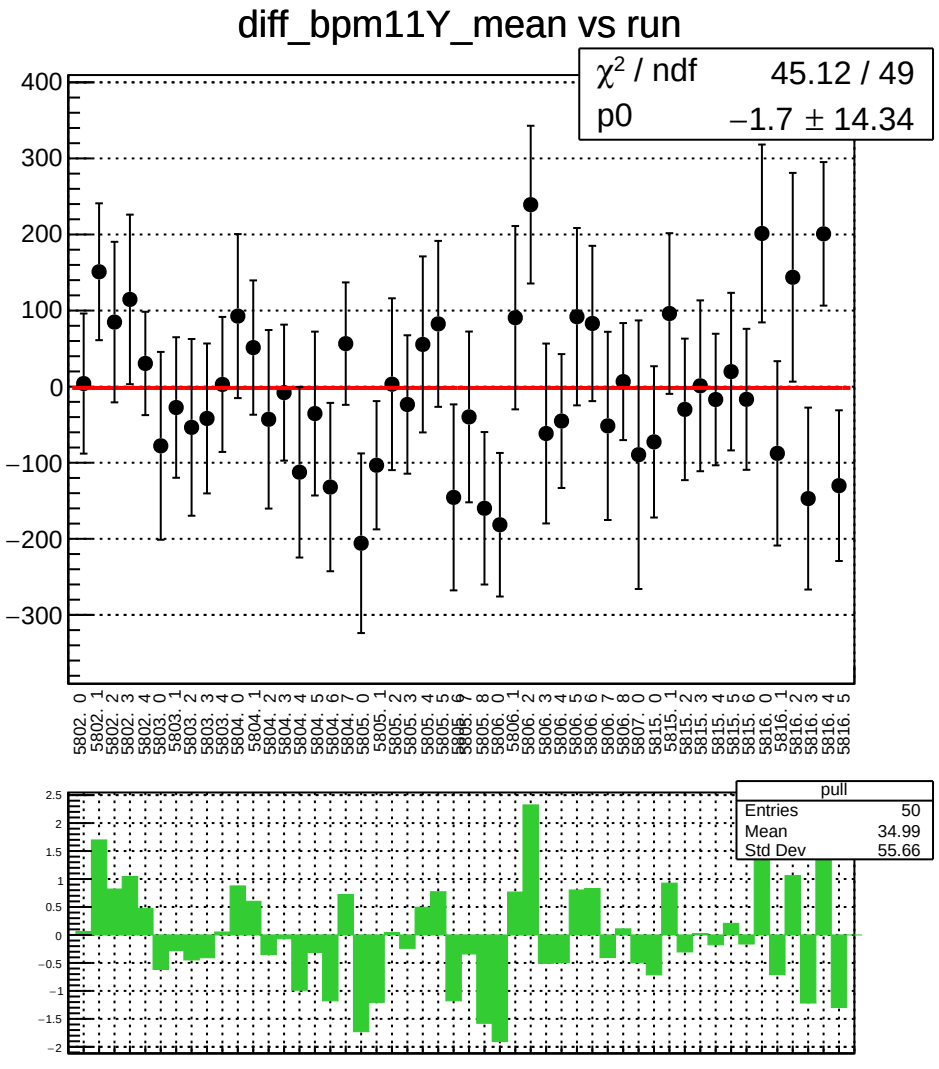
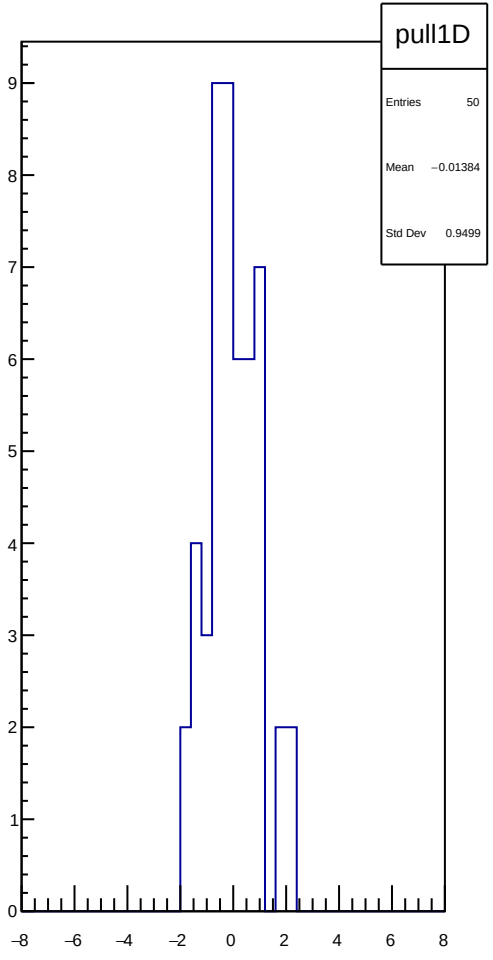
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

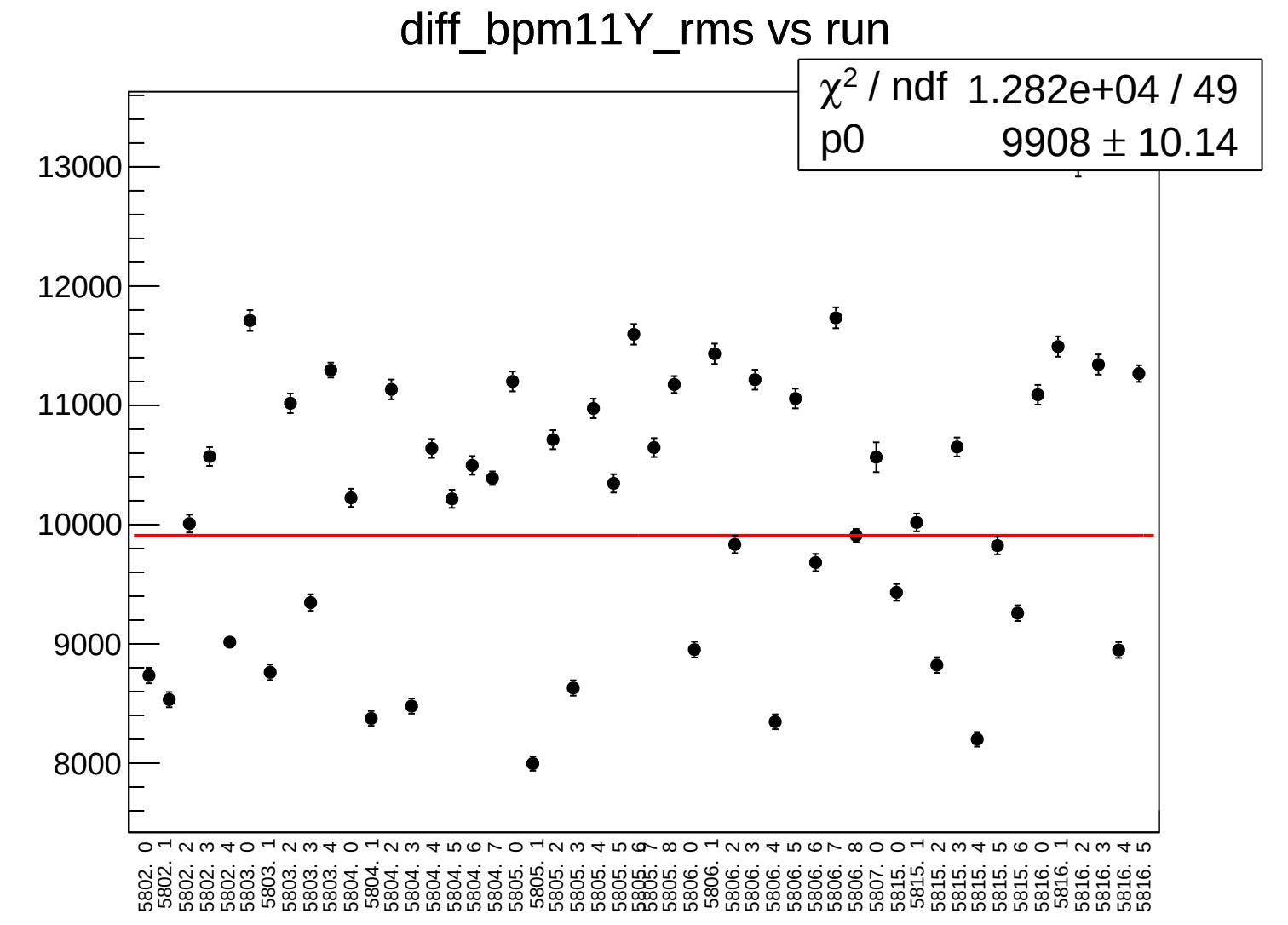

diff_bpm11X_mean vs run
χ² / ndf 70.38 / 49
p0 −9.533 ± 15.22
600
400
200
0
−200
−400
pull
Entries 50
Mean −151
Std Dev 172.6
4
3
2
1
0
−1
−2

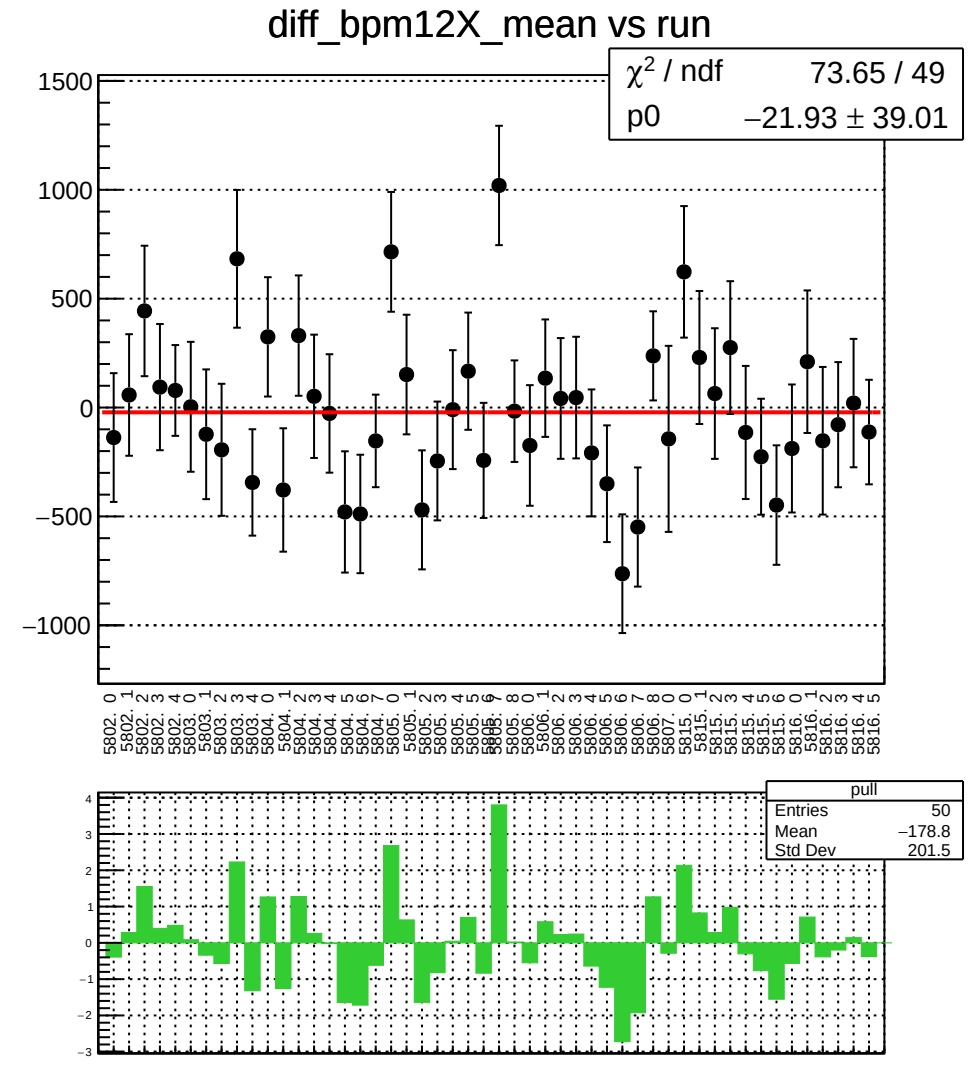

pull1D
Entries 50
Mean 0.009016
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

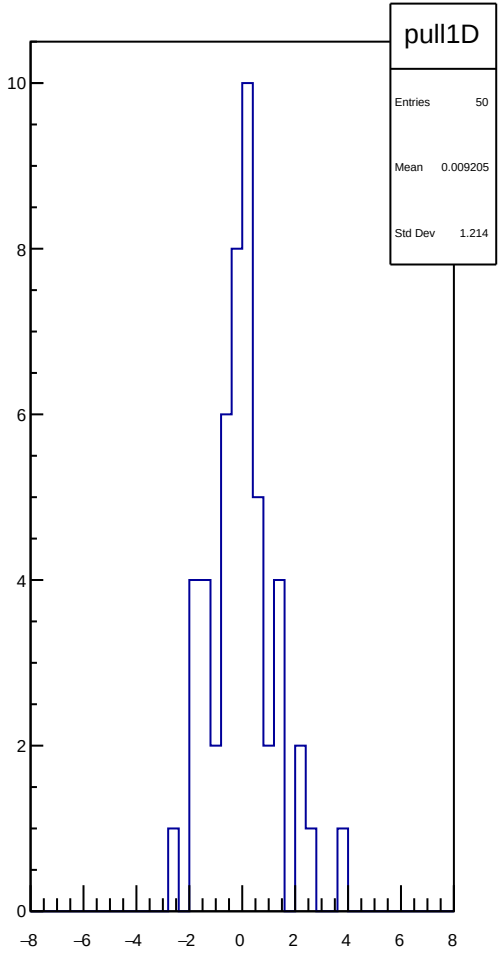

diff_bpm11X_rms vs run
χ² / ndf 2998 / 49
p0 1.057e+04 ± 10.76
12500
12000
11500
11000
10500
10000
9500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

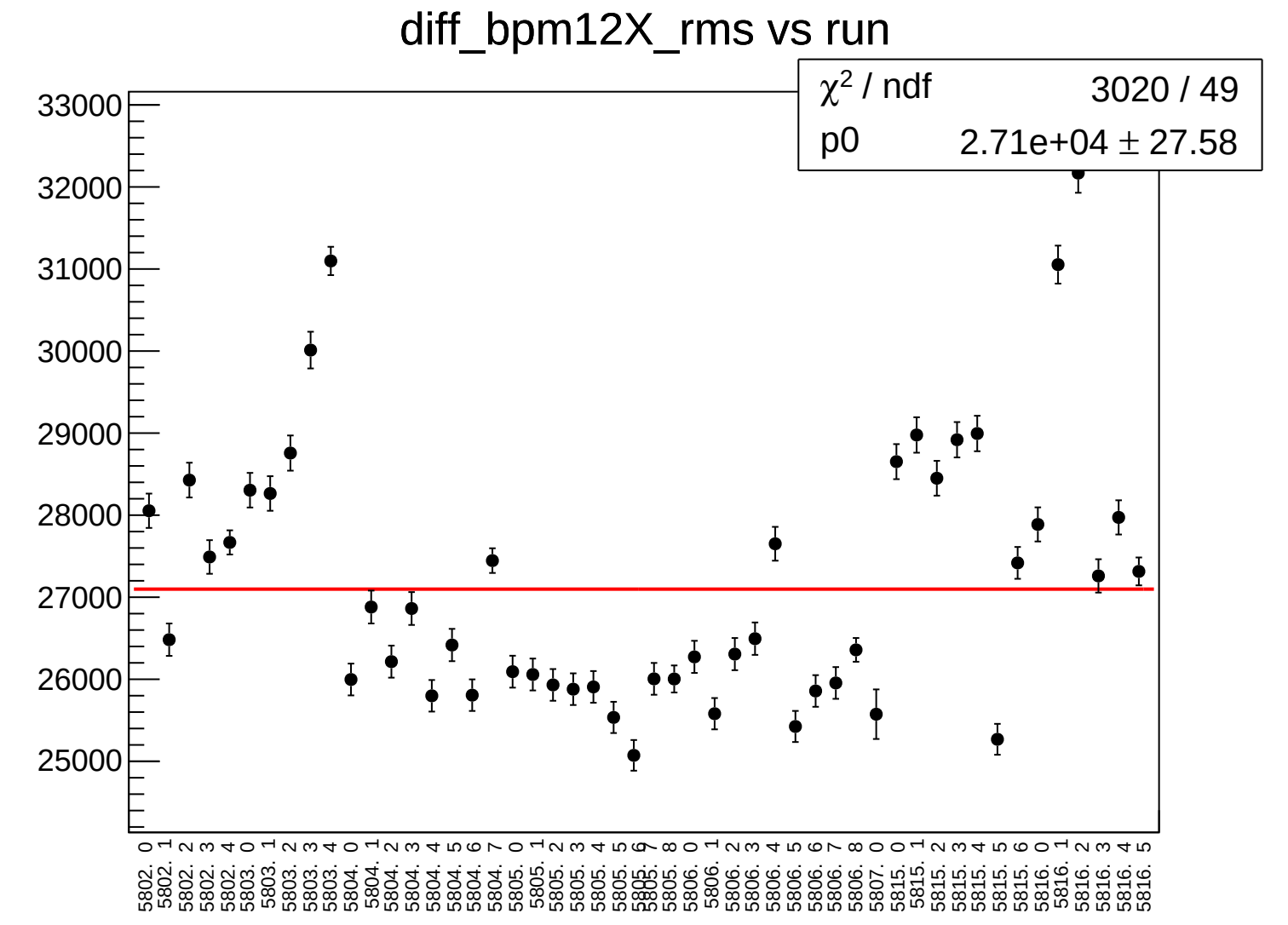

diff_bpm11Y_mean vs run
χ² / ndf 45.12 / 49
p0 −1.7 ± 14.34
pull
Entries 50
Mean 34.99
Std Dev 55.66

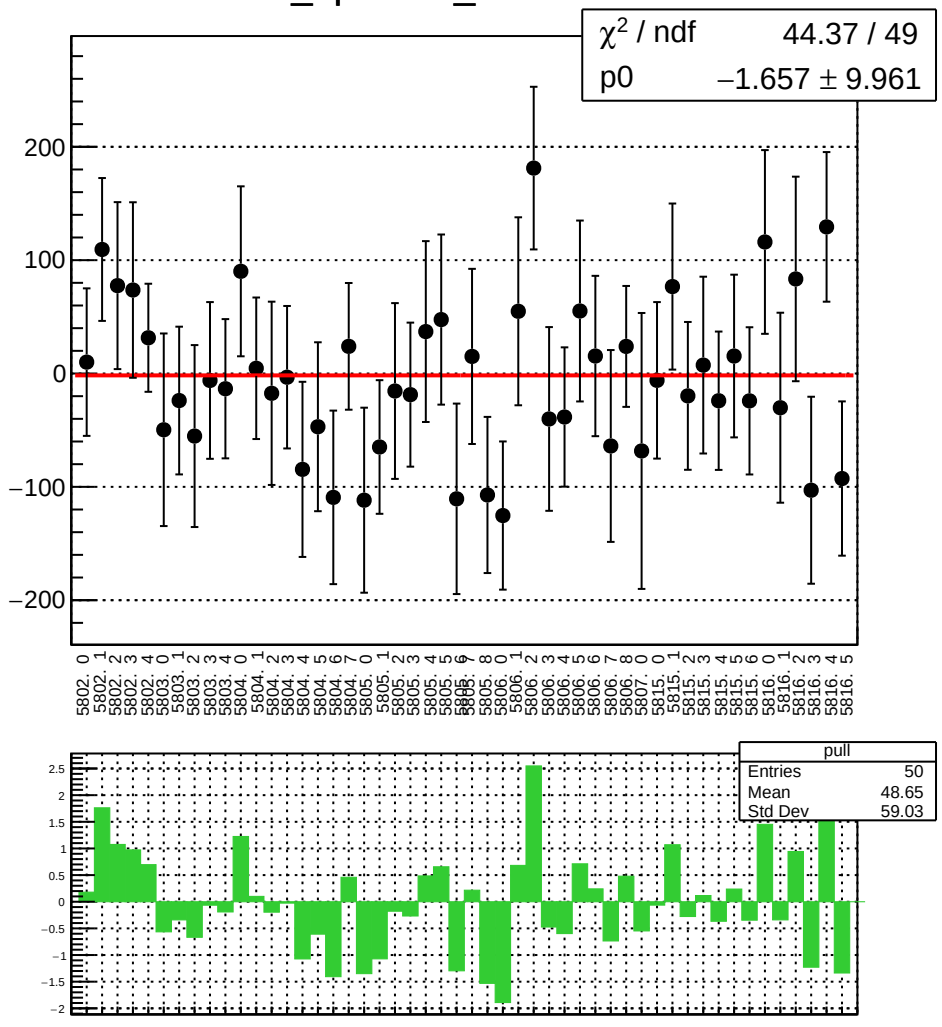

pull1D
Entries 50
Mean −0.01384
Std Dev 0.9499

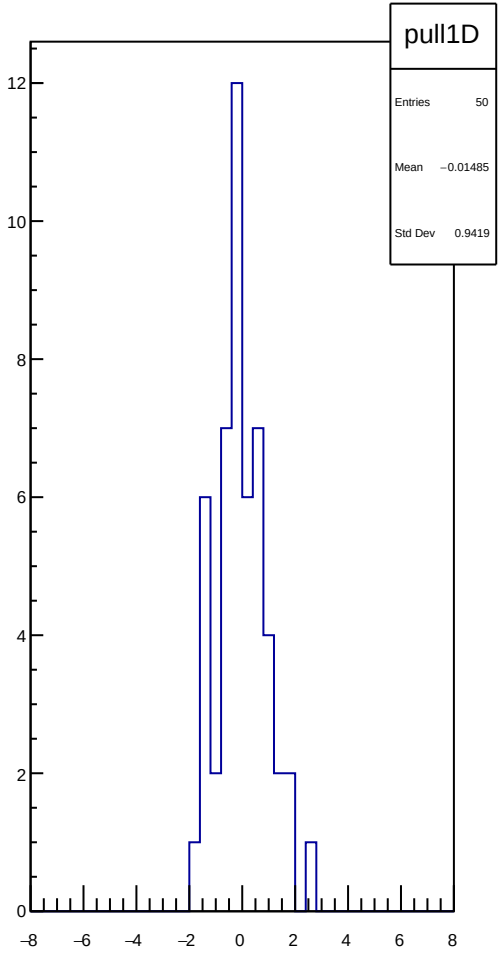

diff_bpm11Y_rms vs run
χ² / ndf 1.282e+04 / 49
p0 9908 ± 10.14
13000
12000
11000
10000
9000
8000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

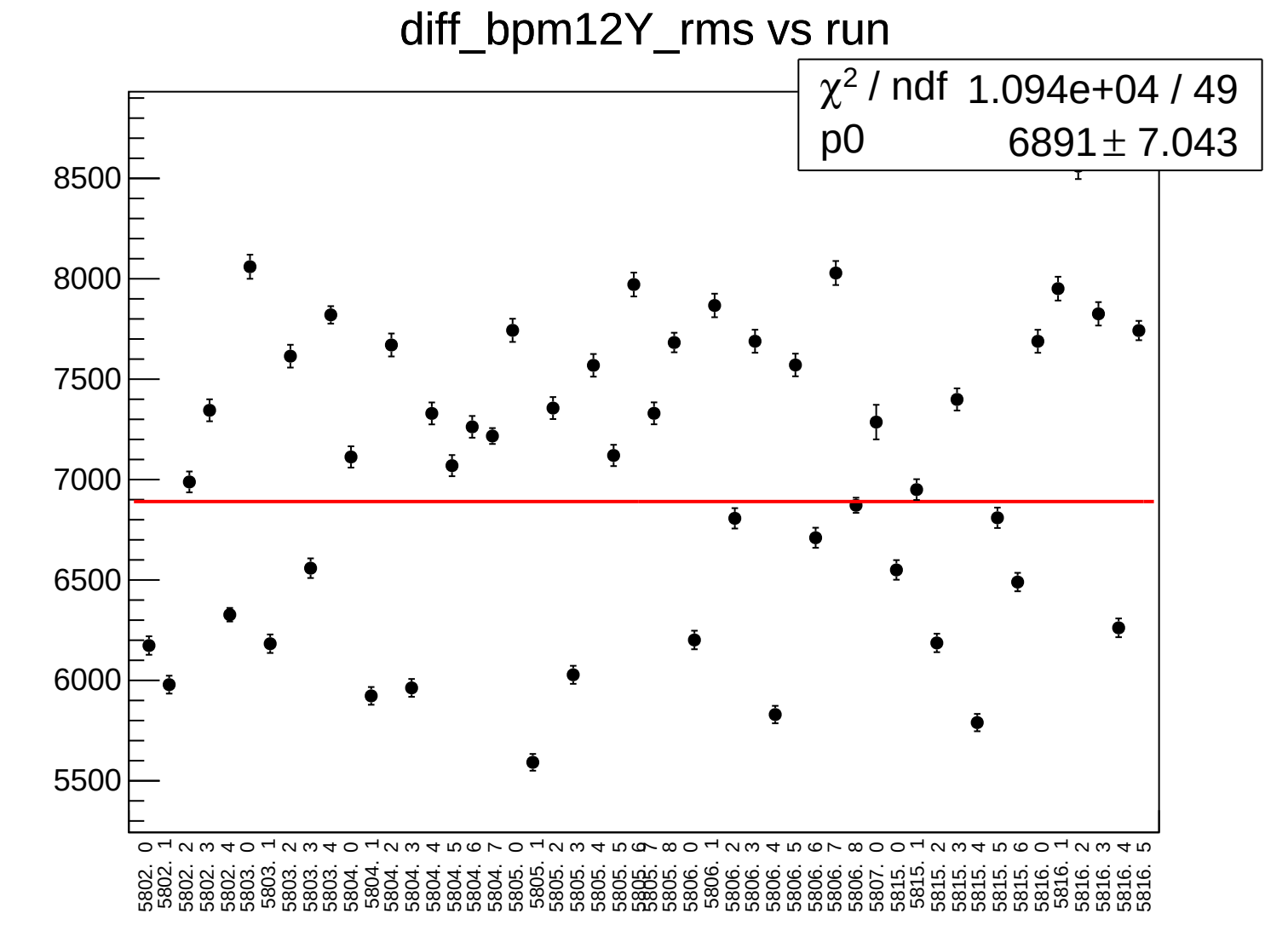

diff_bpm12X_mean vs run
χ² / ndf 73.65 / 49
p0 −21.93 ± 39.01
pull
Entries 50
Mean −178.8
Std Dev 201.5

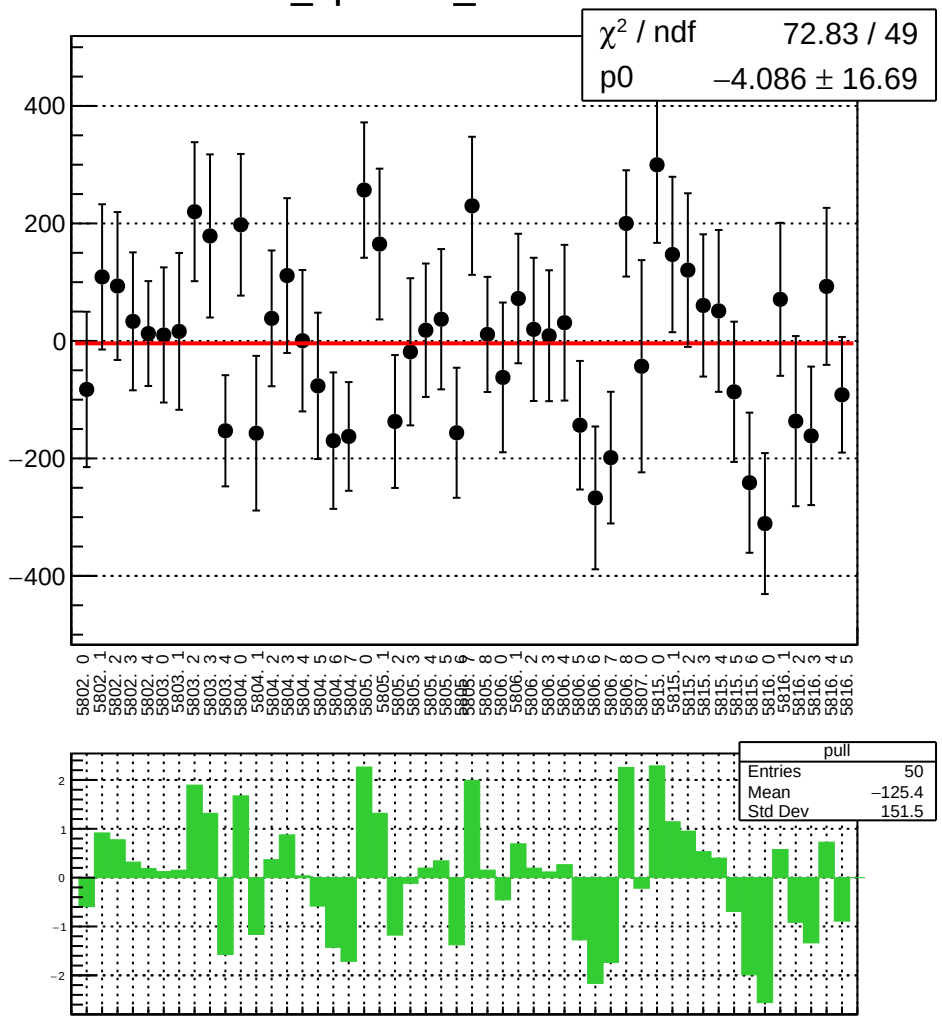

pull1D
Entries 50
Mean 0.009205
Std Dev 1.214

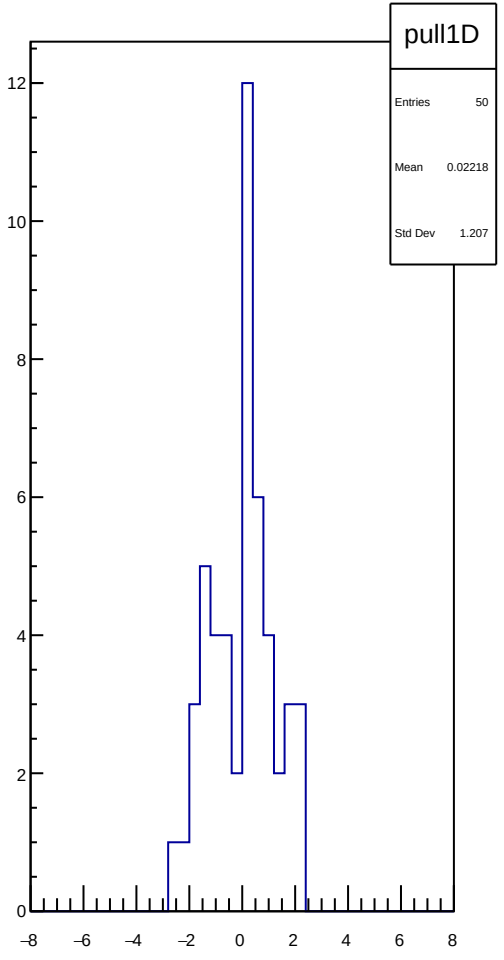

diff_bpm12X_rms vs run
χ² / ndf 3020 / 49
p0 2.71e+04 ± 27.58
33000
32000
31000
30000
29000
28000
27000
26000
25000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

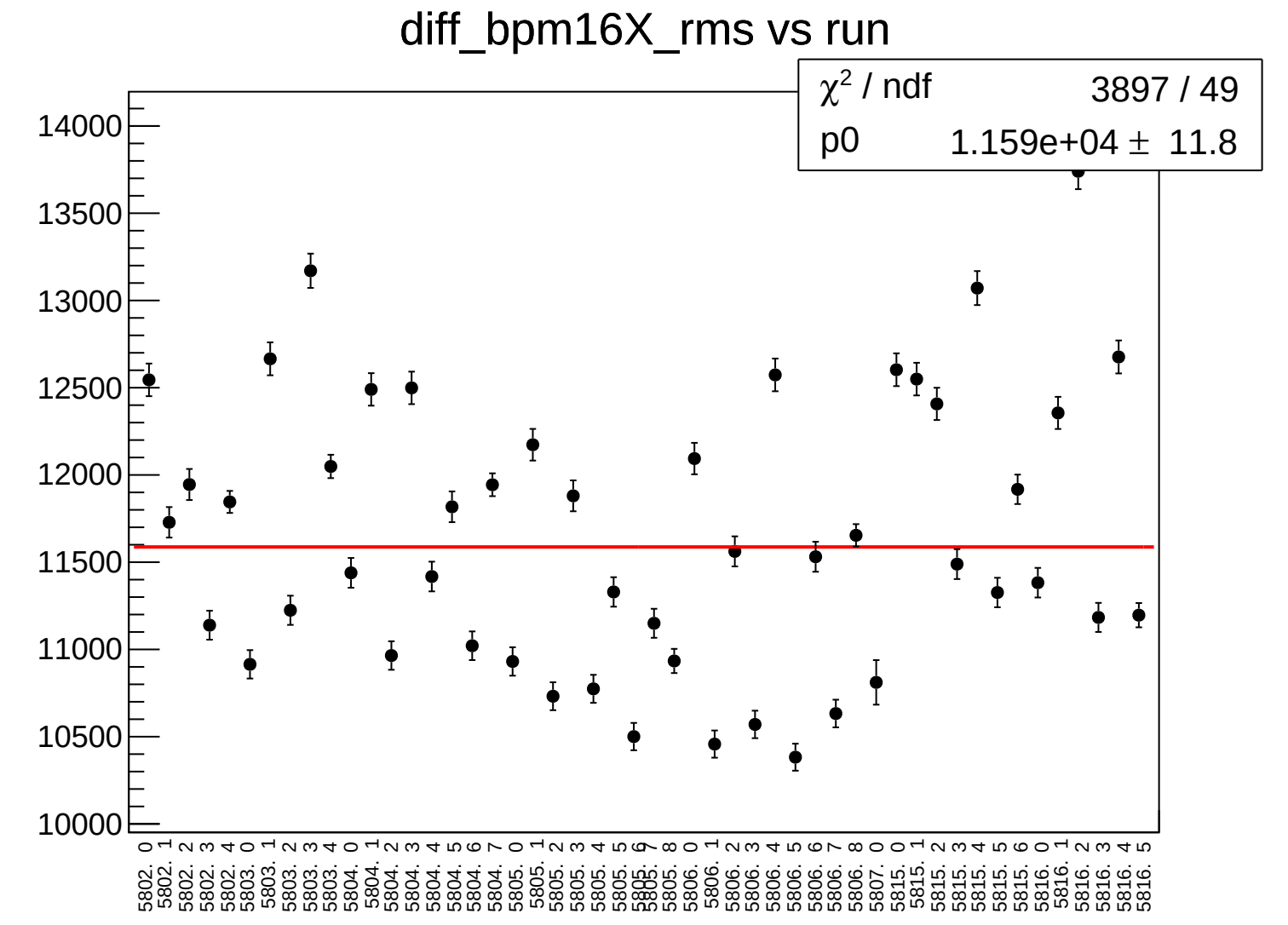

diff_bpm12Y_mean vs run
χ² / ndf 44.37 / 49
p0 −1.657 ± 9.961
pull
Entries 50
Mean 48.65
Std Dev 59.03


pull1D
Entries 50
Mean −0.01485
Std Dev 0.9419


diff_bpm12Y_rms vs run
χ² / ndf 1.094e+04 / 49
p0 6891 ± 7.043
8500
8000
7500
7000
6500
6000
5500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm16X_mean vs run
χ² / ndf 72.83 / 49
p0 −4.086 ± 16.69
400
200
0
−200
−400
pull
Entries 50
Mean −125.4
Std Dev 151.5
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.02218
Std Dev 1.207
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm16X_rms vs run
χ² / ndf 3897 / 49
p0 1.159e+04 ± 11.8
14000
13500
13000
12500
12000
11500
11000
10500
10000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
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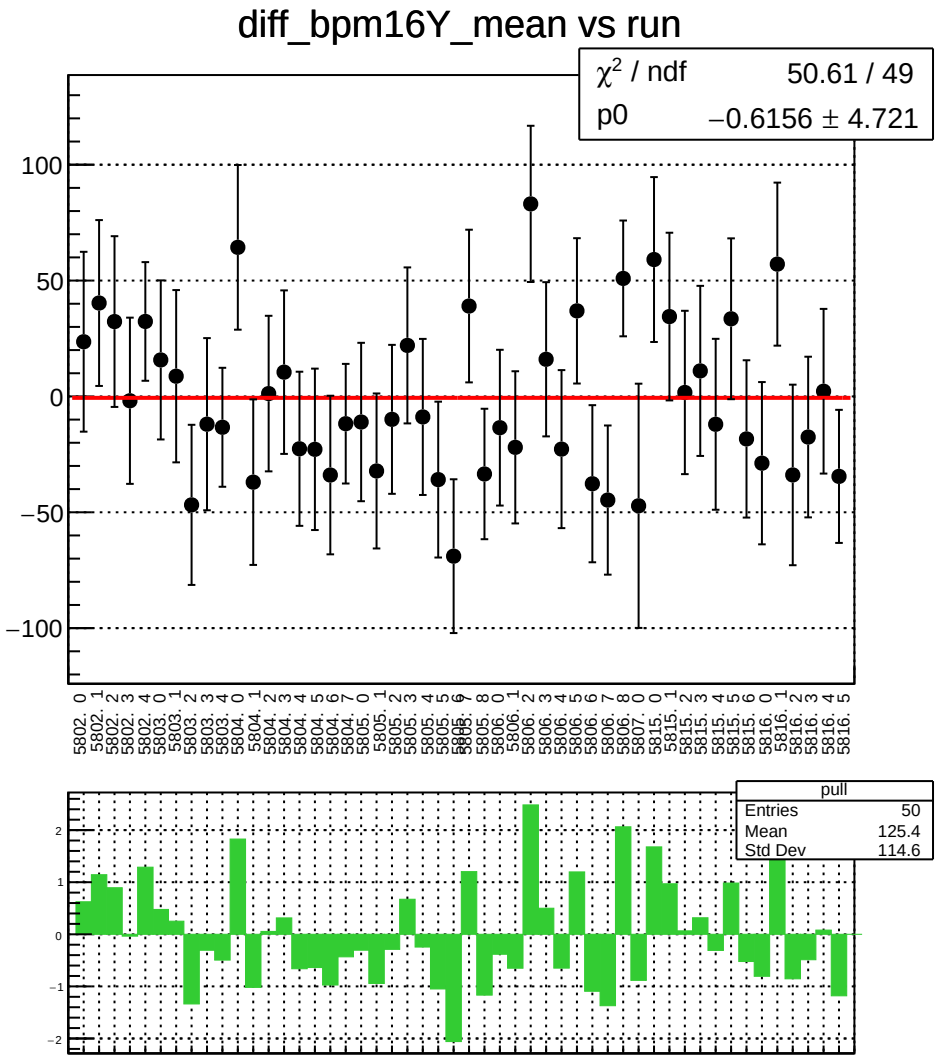
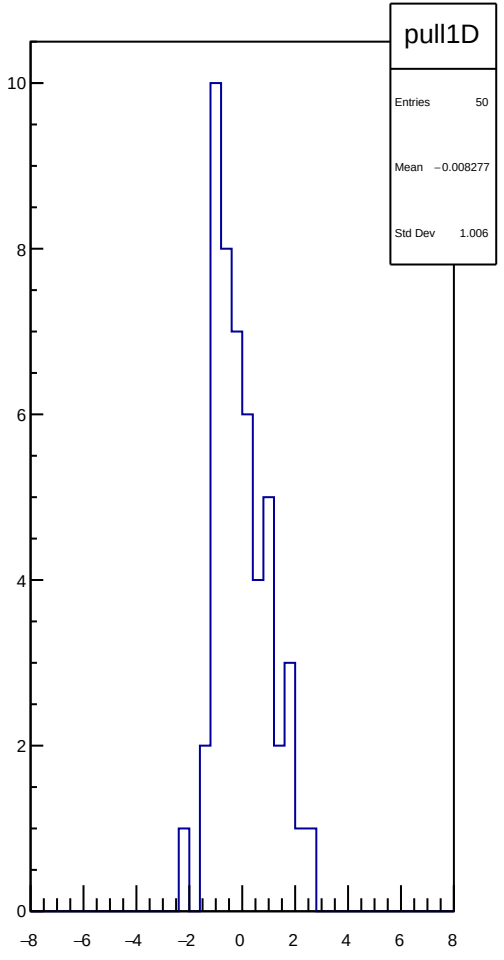
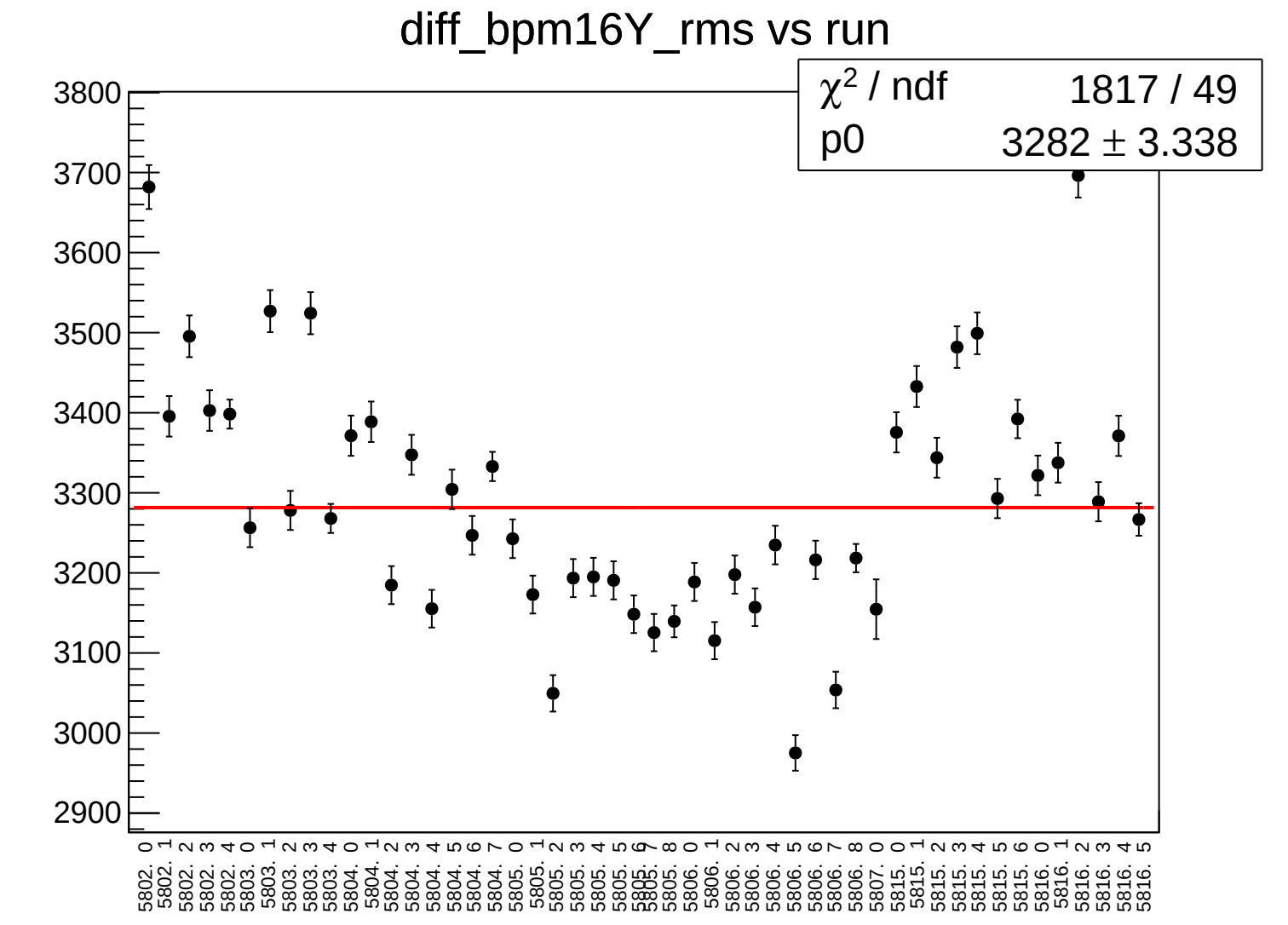
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm16Y_mean vs run
χ² / ndf 50.61 / 49
p0 −0.6156 ± 4.721
100
50
0
−50
−100
pull
Entries 50
Mean 125.4
Std Dev 114.6
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.008277
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm16Y_rms vs run
χ² / ndf 1817 / 49
p0 3282 ± 3.338
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
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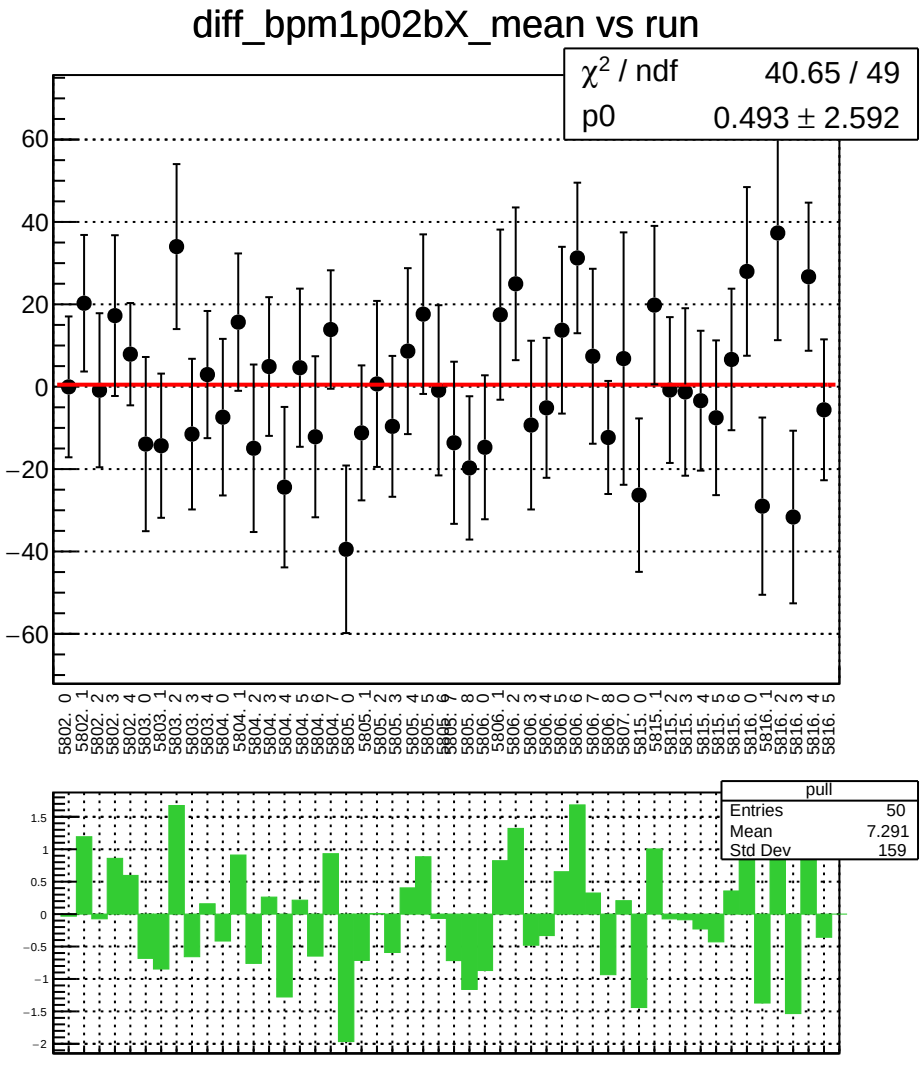
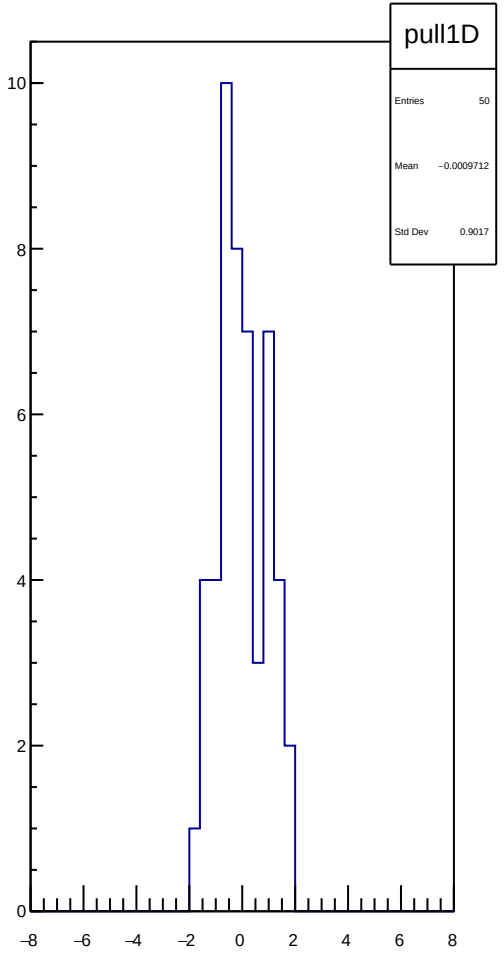
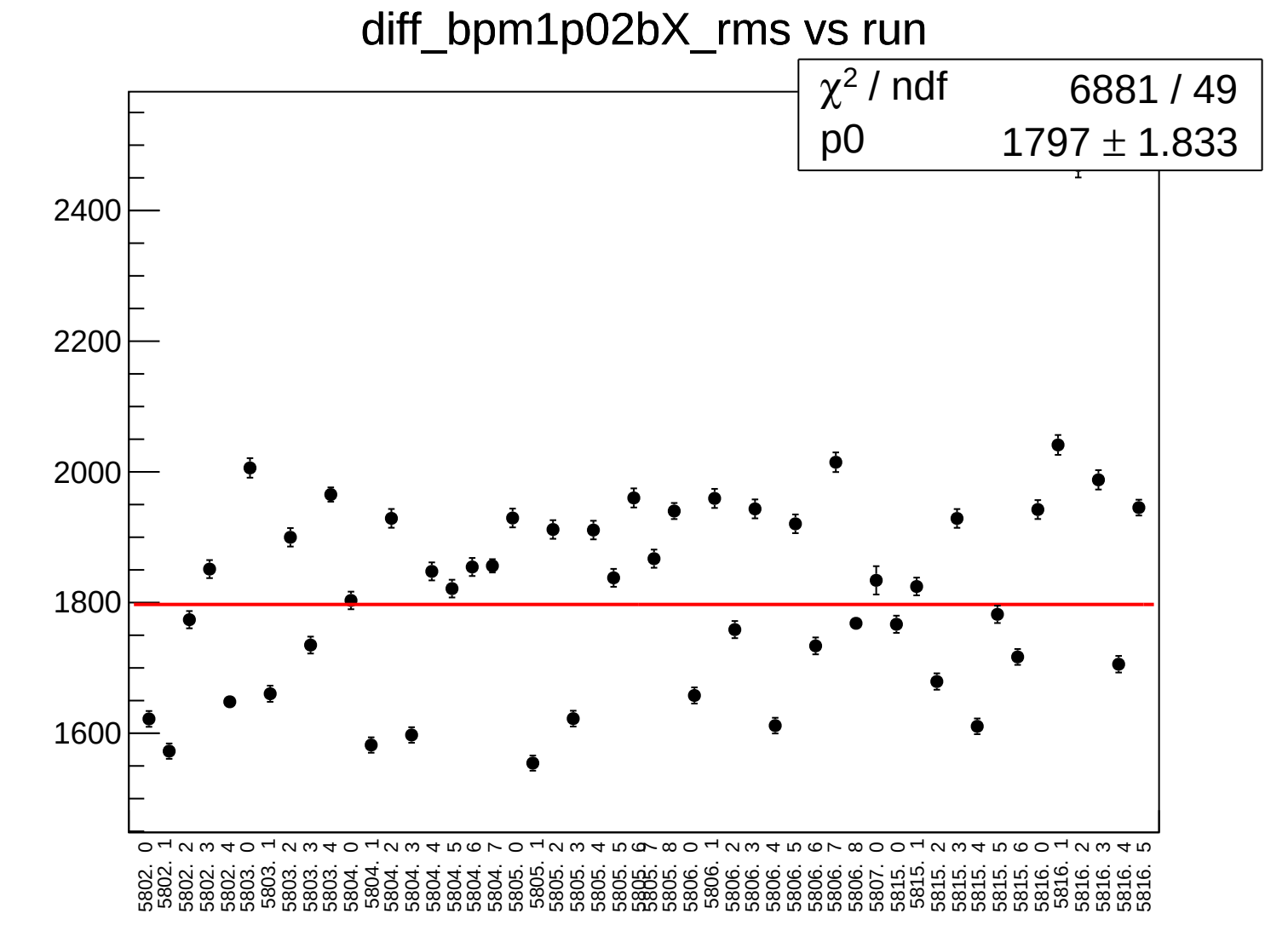
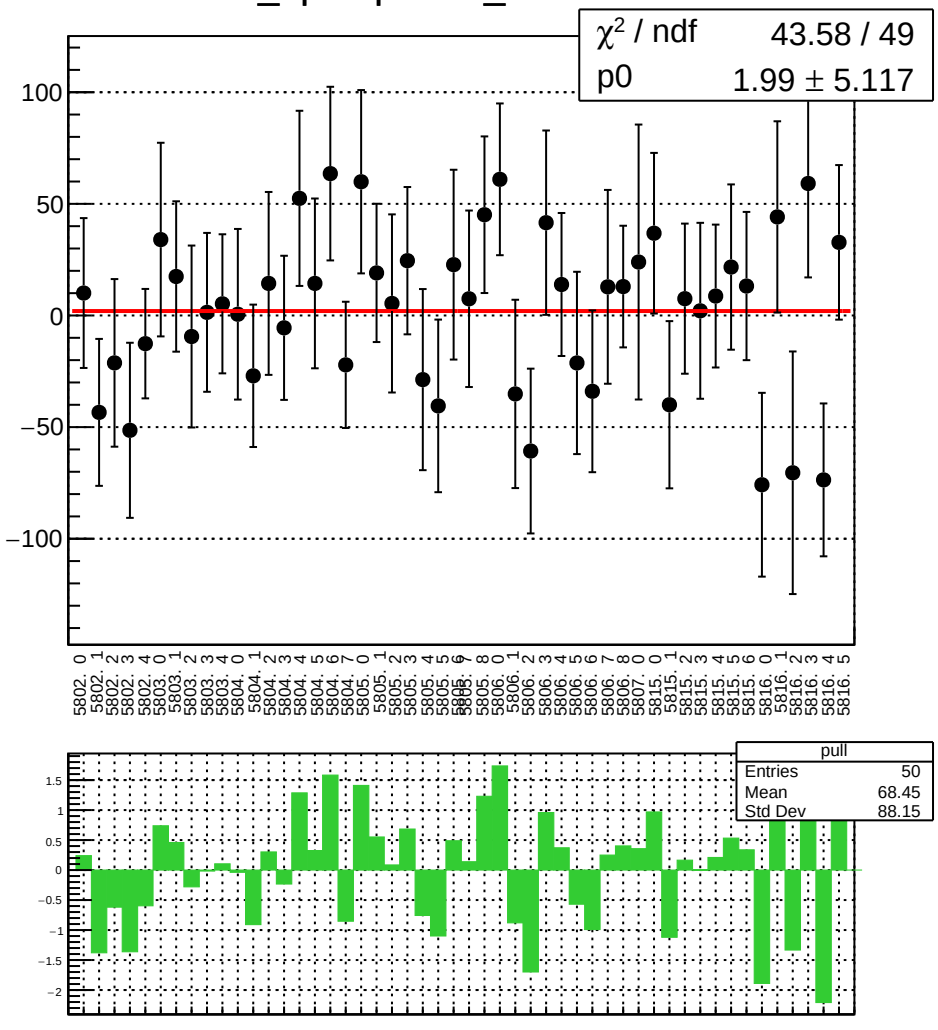
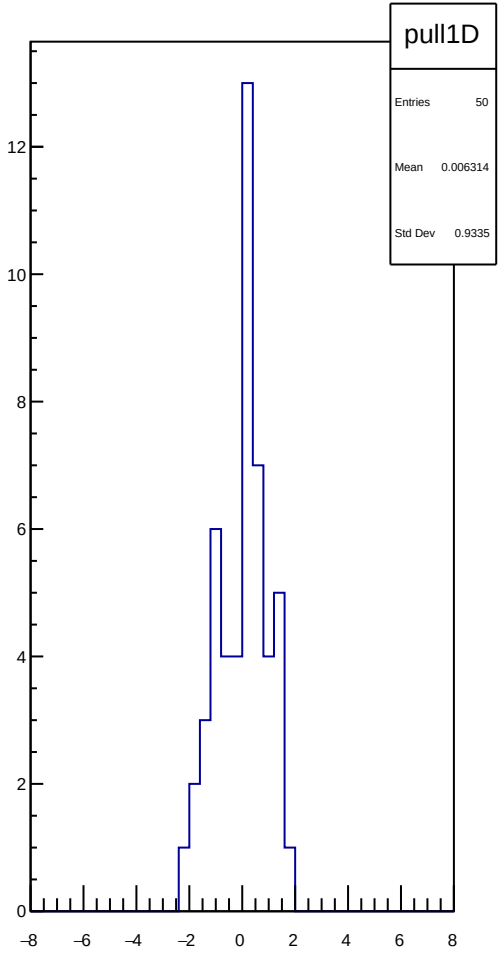
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

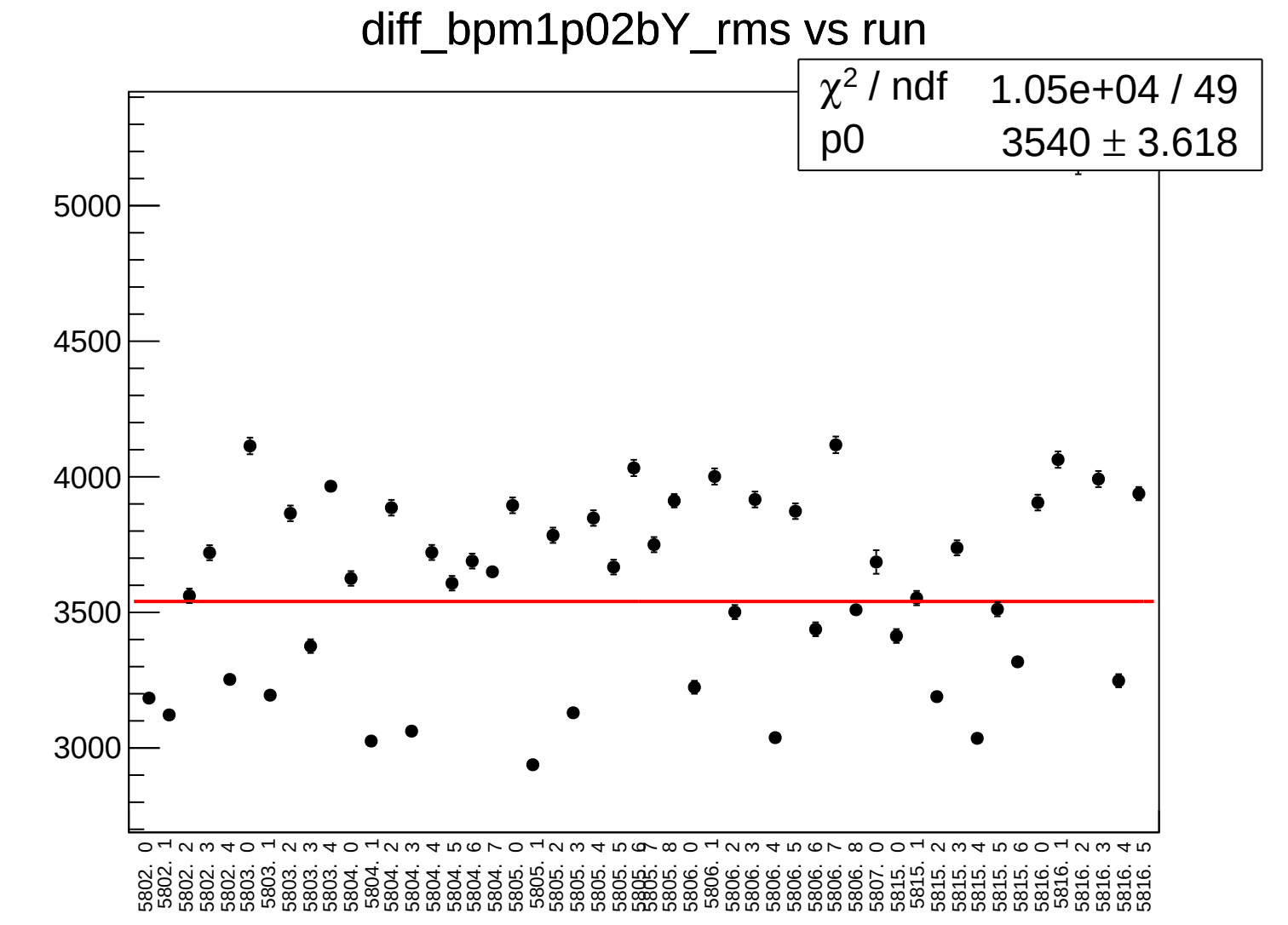

diff_bpm1p02bX_mean vs run
χ^2 / ndf 40.65 / 49
p0 0.493 ± 2.592
pull
Entries 50
Mean 7.291
Std Dev 159

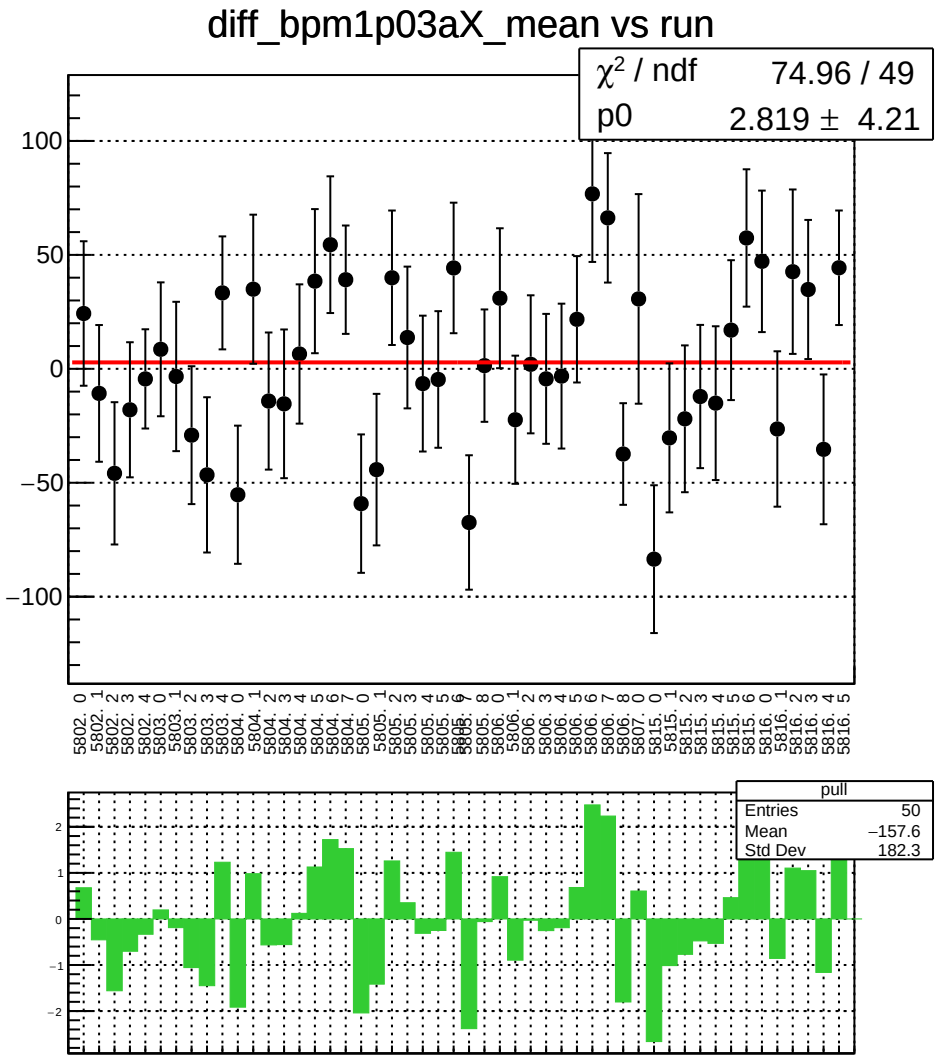

pull1D
Entries 50
Mean −0.0009712
Std Dev 0.9017

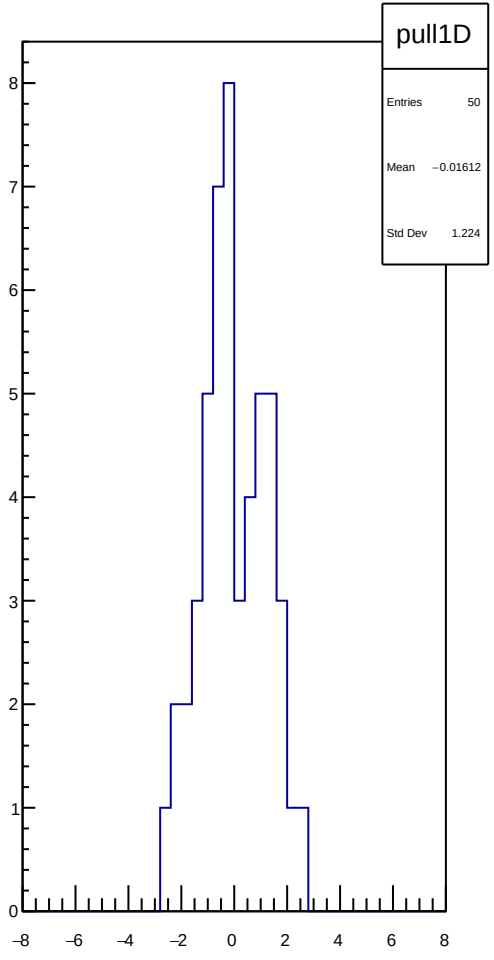

diff_bpm1p02bX_rms vs run
χ² / ndf 6881 / 49
p0 1797 ± 1.833
2400
2200
2000
1800
1600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

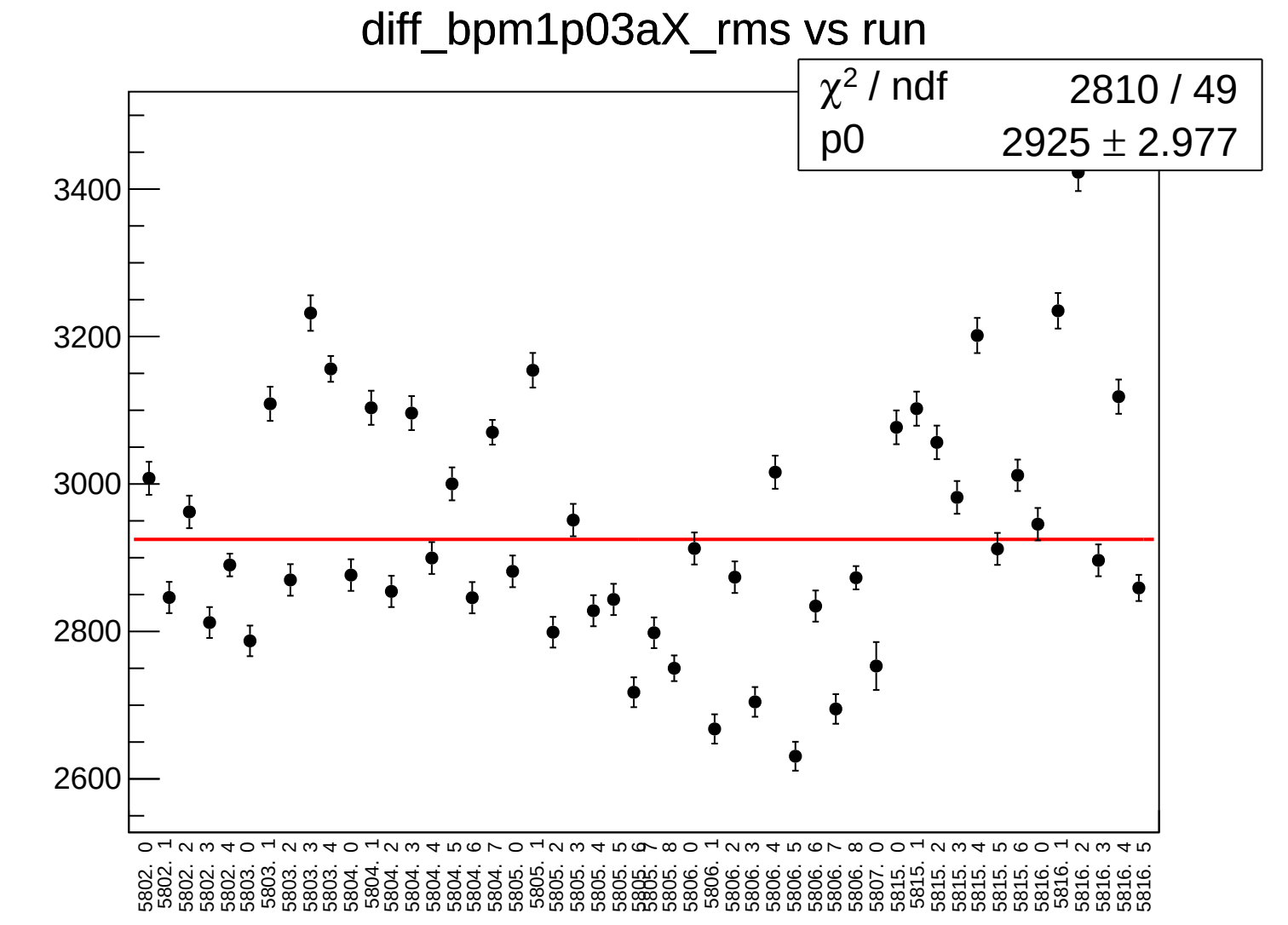

diff_bpm1p02bY_mean vs run
χ² / ndf 43.58 / 49
p0 1.99 ± 5.117
100
50
0
−50
−100
pull
Entries 50
Mean 68.45
Std Dev 88.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2

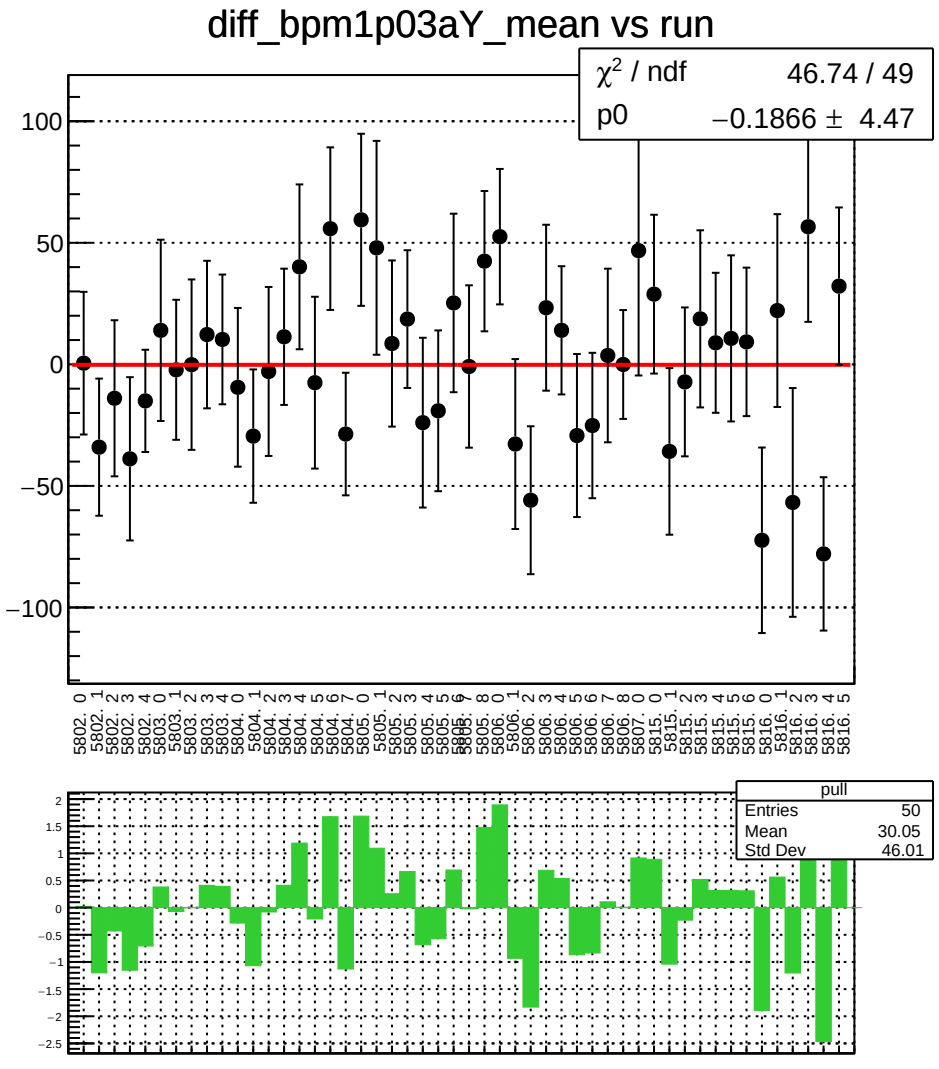

pull1D
Entries 50
Mean 0.006314
Std Dev 0.9335
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

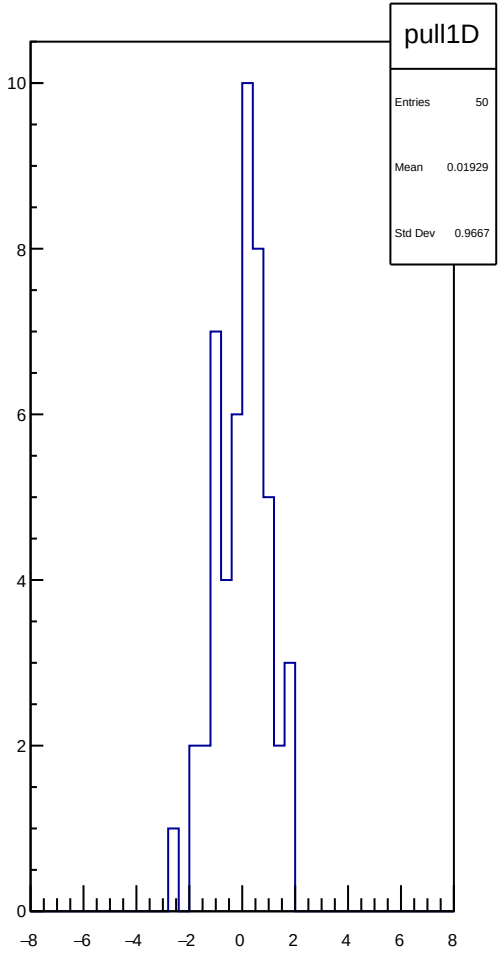

diff_bpm1p02bY_rms vs run
χ² / ndf 1.05e+04 / 49
p0 3540 ± 3.618
5000
4500
4000
3500
3000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

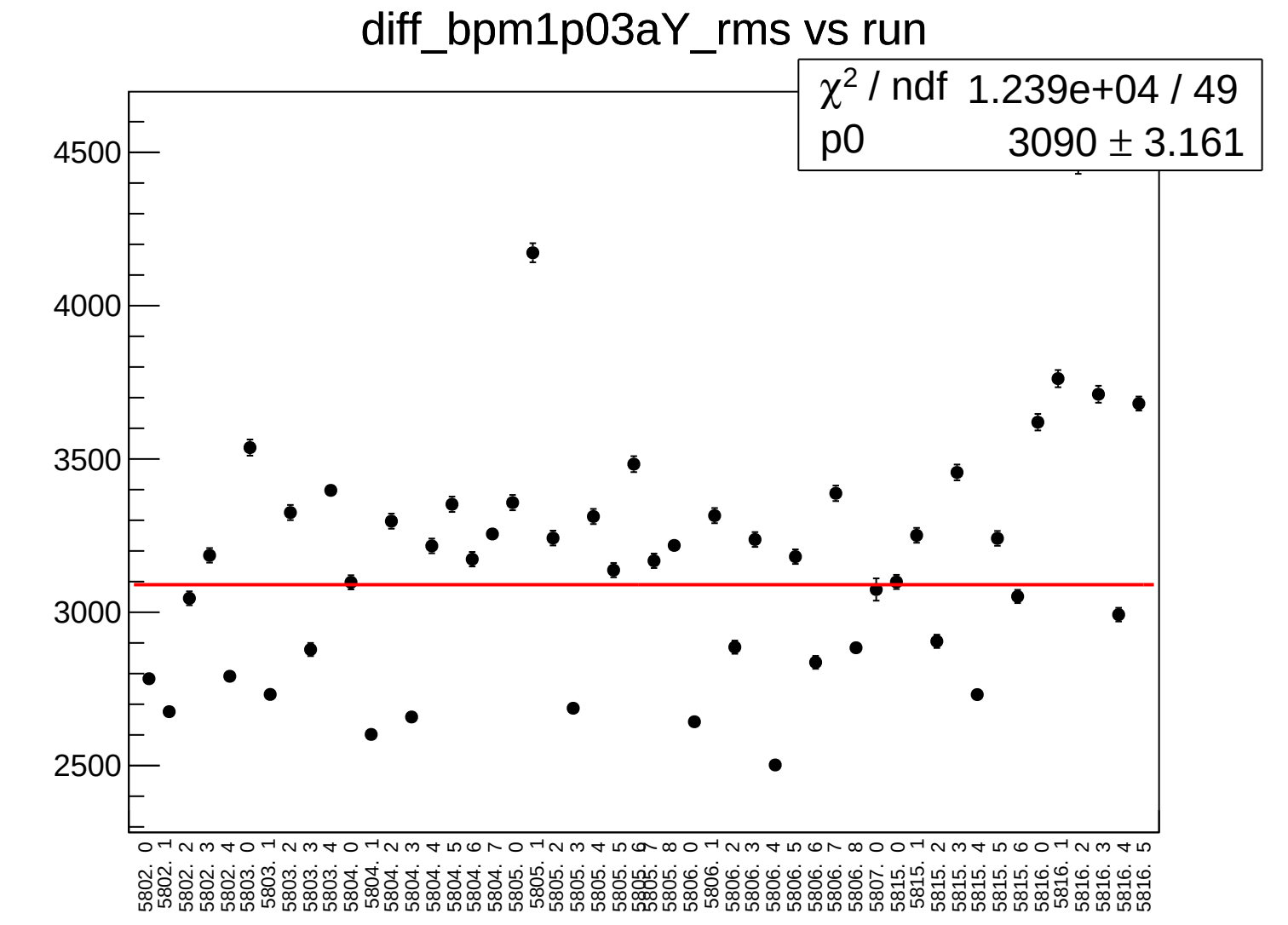

diff_bpm1p03aX_mean vs run
χ² / ndf 74.96 / 49
p0 2.819 ± 4.21
100
50
0
−50
−100
pull
Entries 50
Mean −157.6
Std Dev 182.3
2
1
0
−1
−2

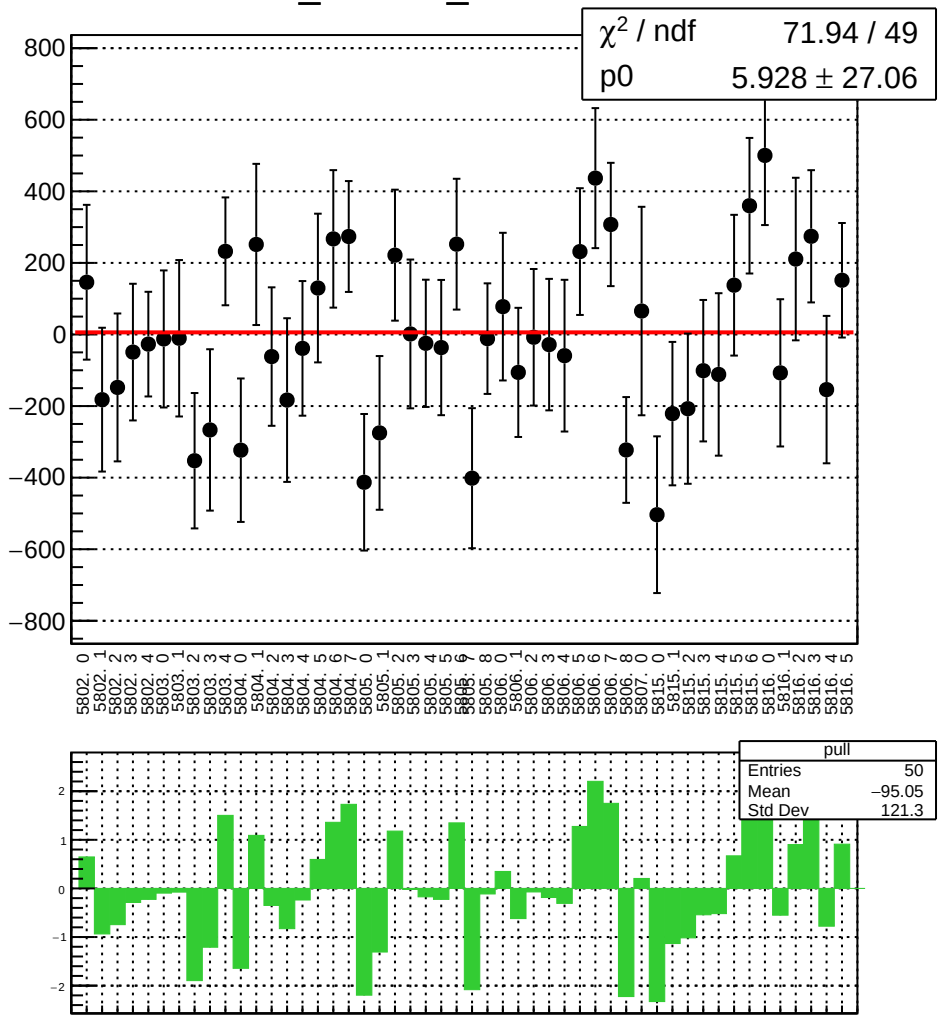

pull1D
Entries 50
Mean −0.01612
Std Dev 1.224
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

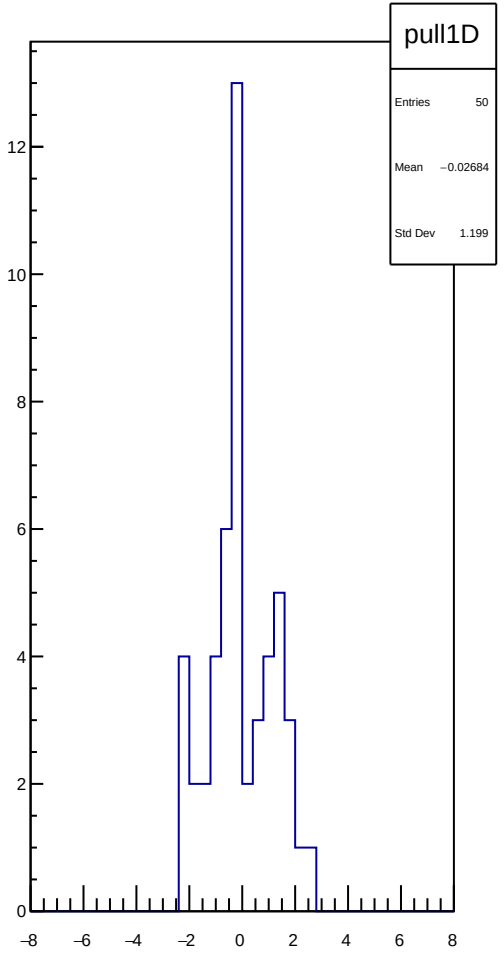

diff_bpm1p03aX_rms vs run
χ² / ndf 2810 / 49
p0 2925 ± 2.977
3400
3200
3000
2800
2600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

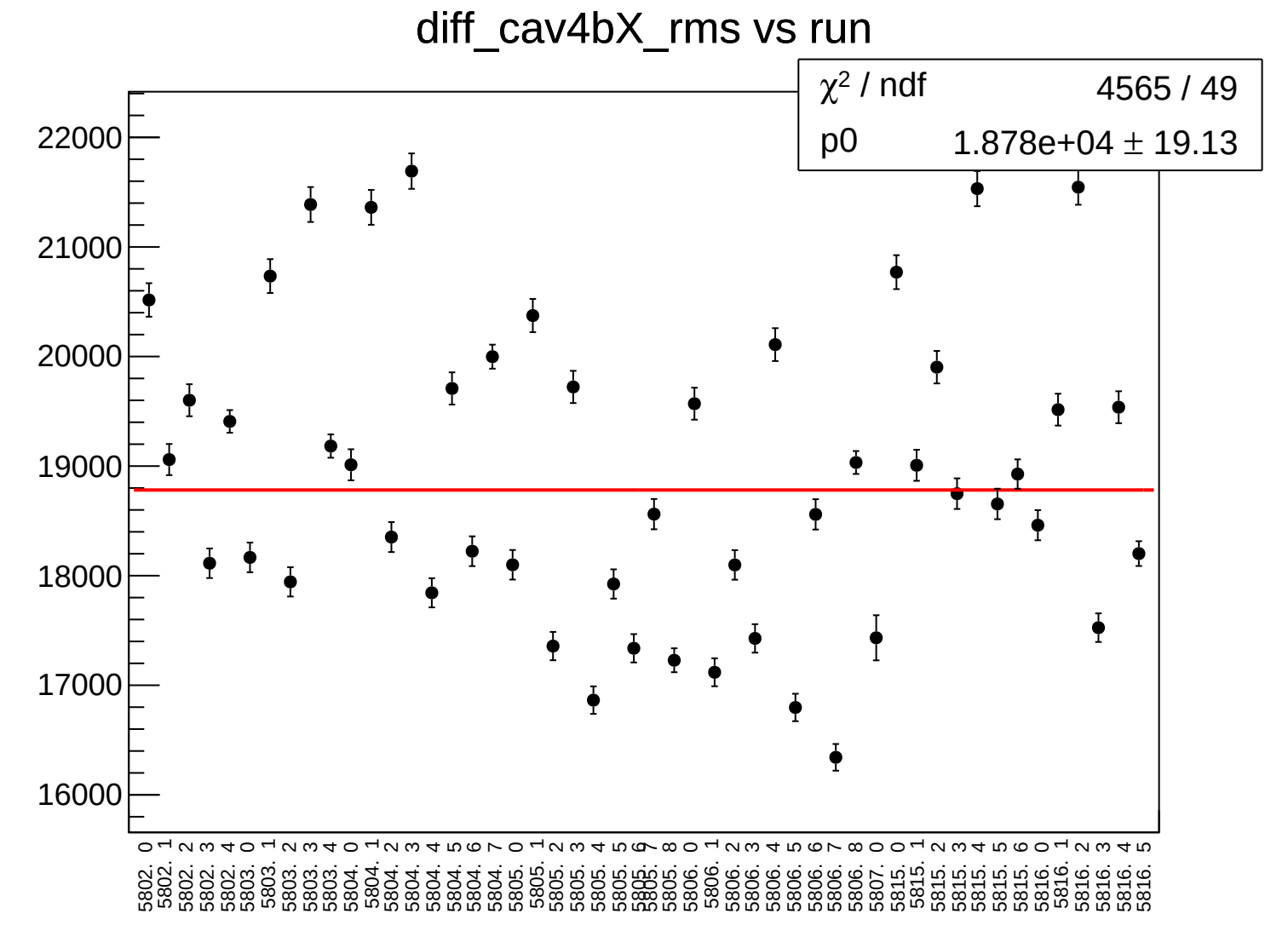

diff_bpm1p03aY_mean vs run
χ² / ndf 46.74 / 49
p0 −0.1866 ± 4.47
pull
Entries 50
Mean 30.05
Std Dev 46.01

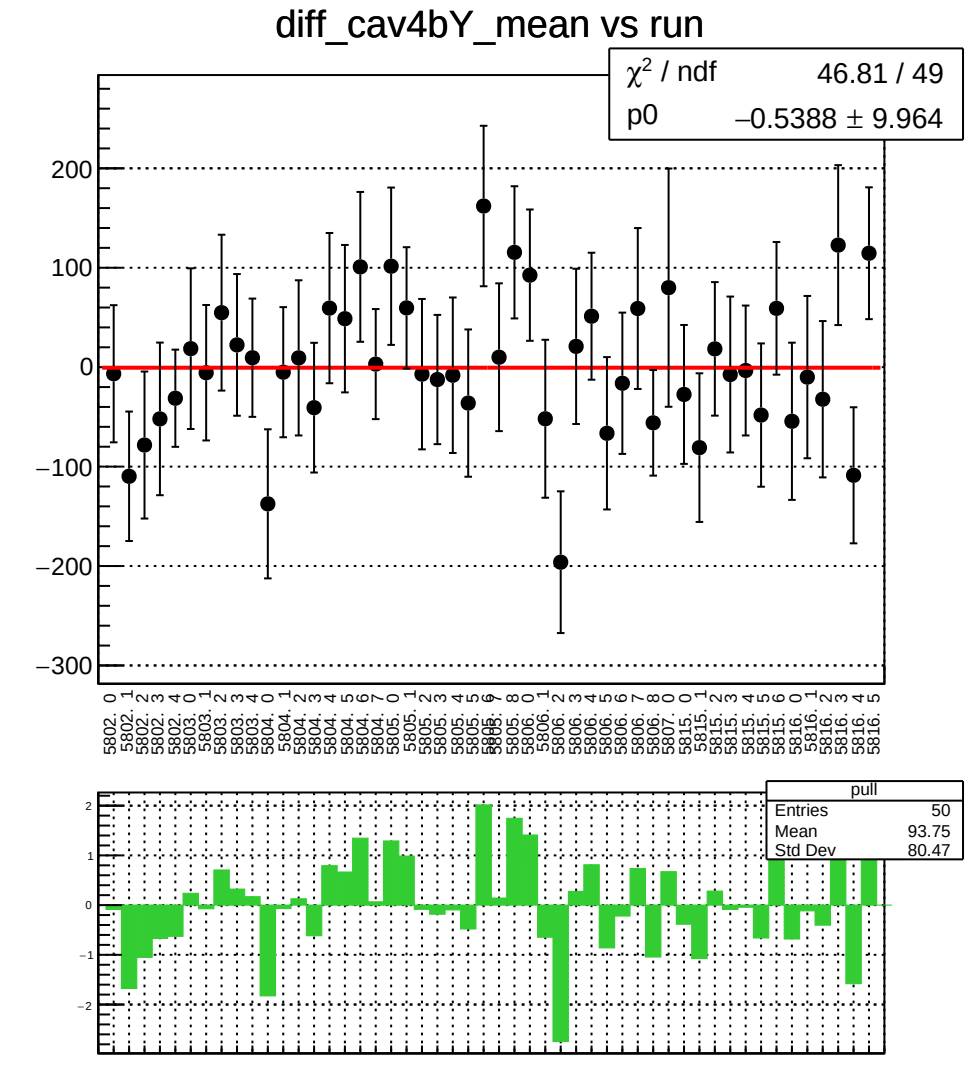

pull1D
Entries 50
Mean 0.01929
Std Dev 0.9667

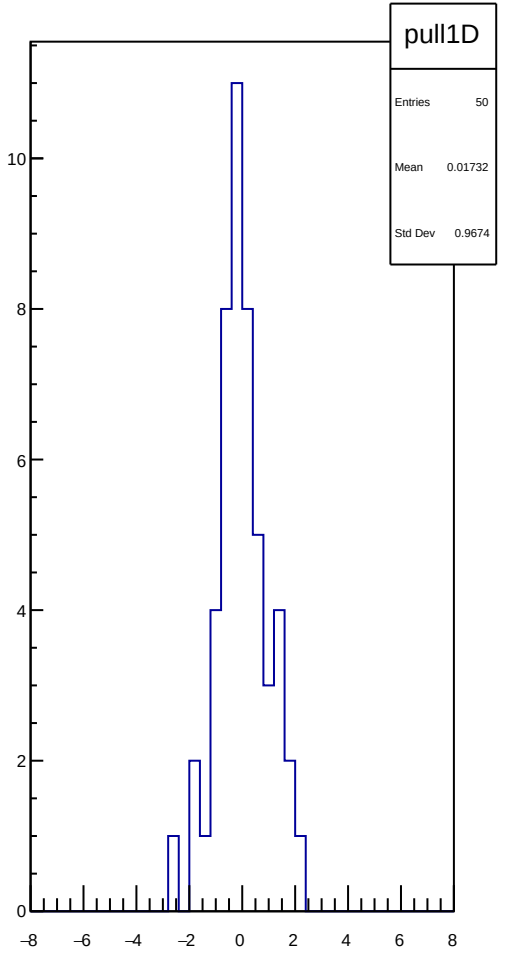

diff_bpm1p03aY_rms vs run
χ² / ndf 1.239e+04 / 49
p0 3090 ± 3.161
4500
4000
3500
3000
2500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

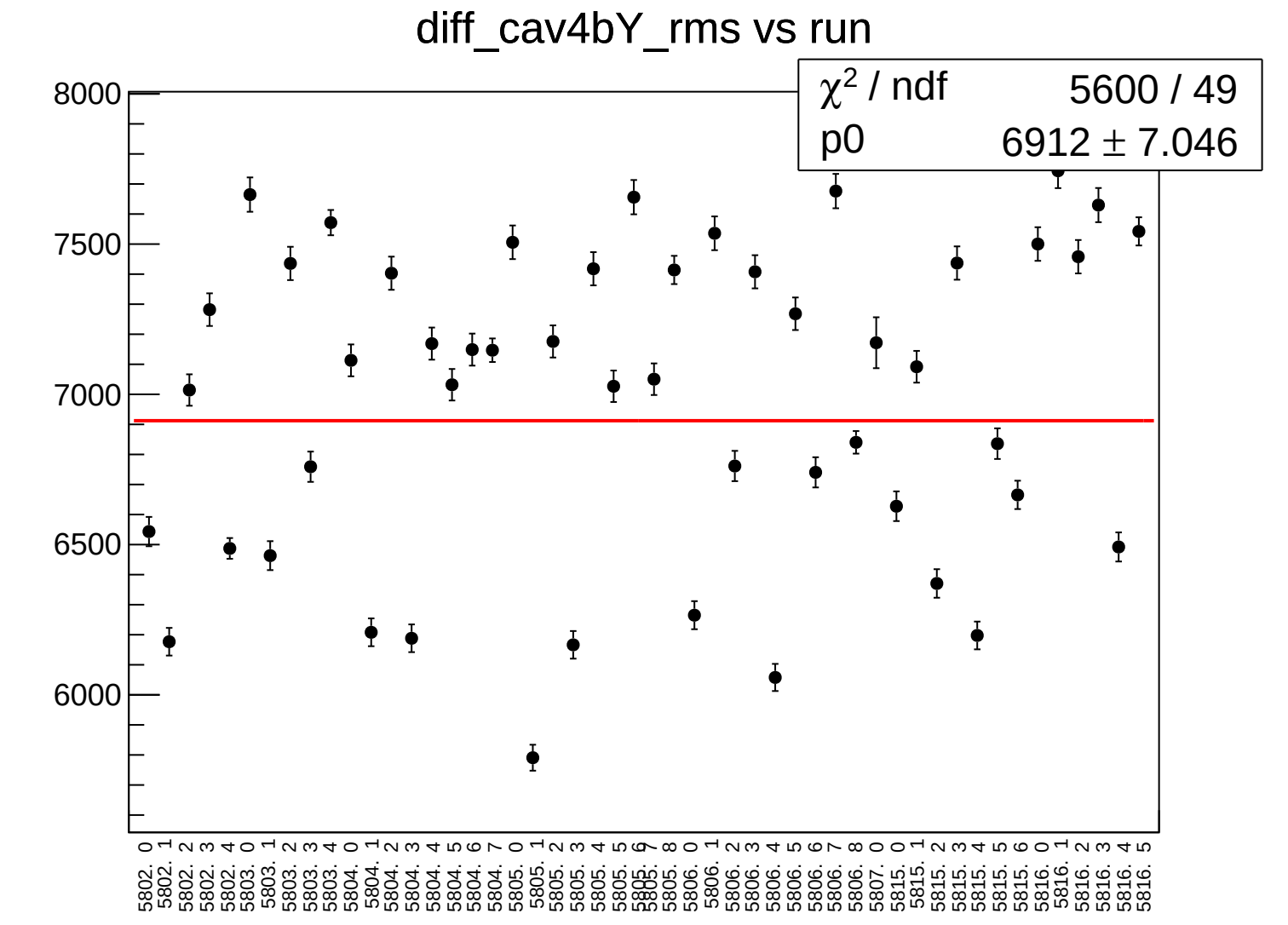

diff_cav4bX_mean vs run
χ² / ndf 71.94 / 49
p0 5.928 ± 27.06
pull
Entries 50
Mean −95.05
Std Dev 121.3

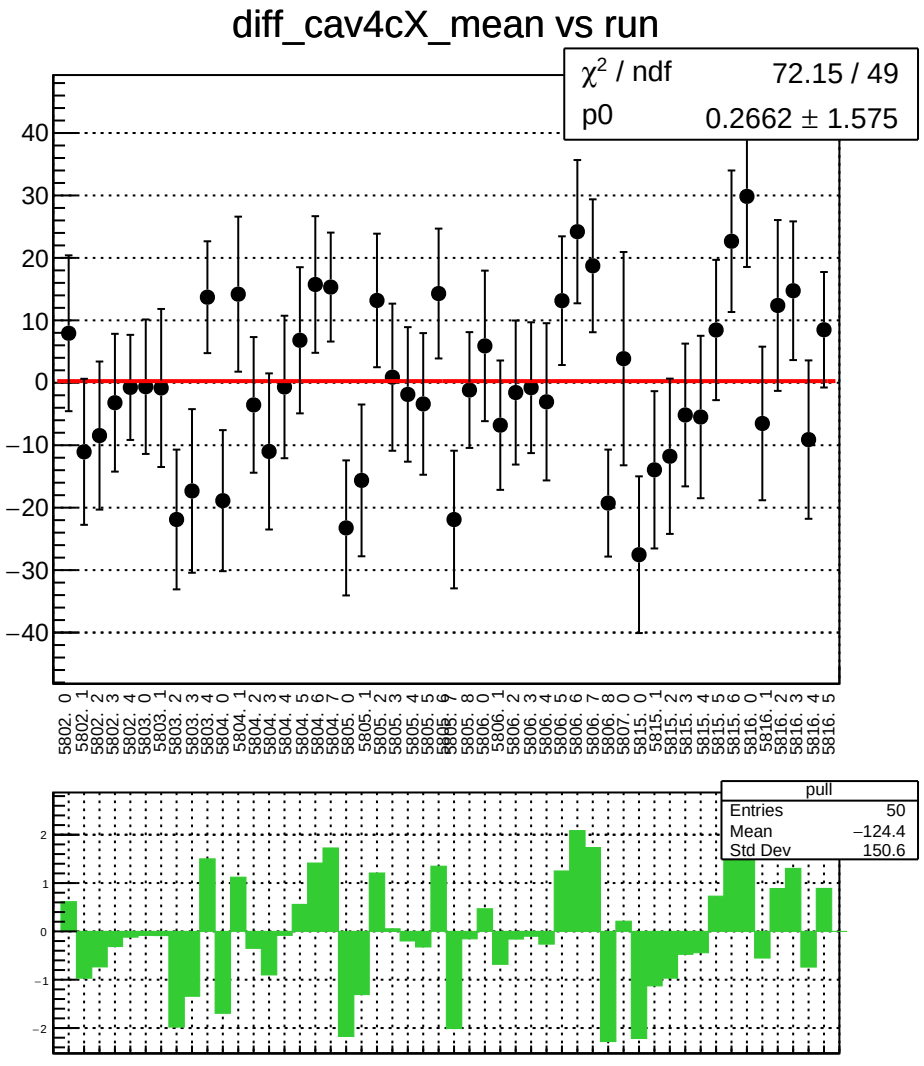

pull1D
Entries 50
Mean −0.02684
Std Dev 1.199

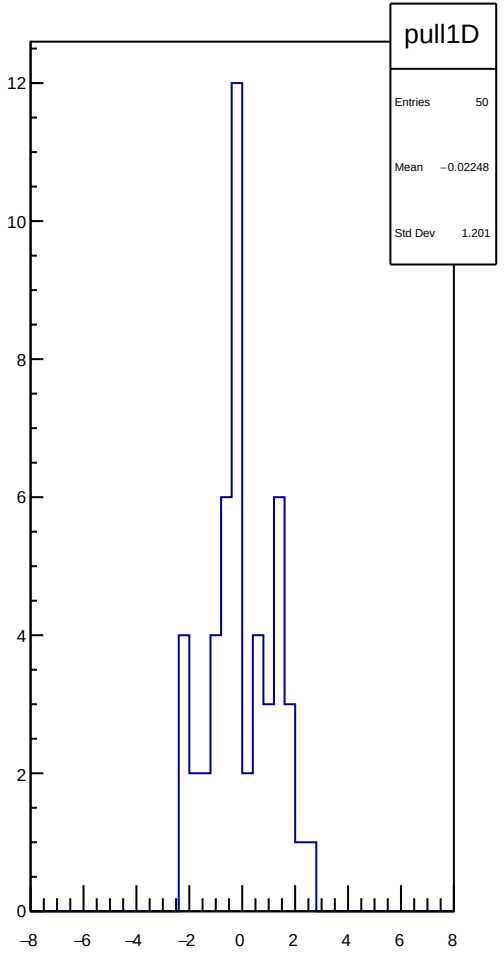

diff_cav4bX_rms vs run
χ² / ndf 4565 / 49
p0 1.878e+04 ± 19.13
22000
21000
20000
19000
18000
17000
16000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

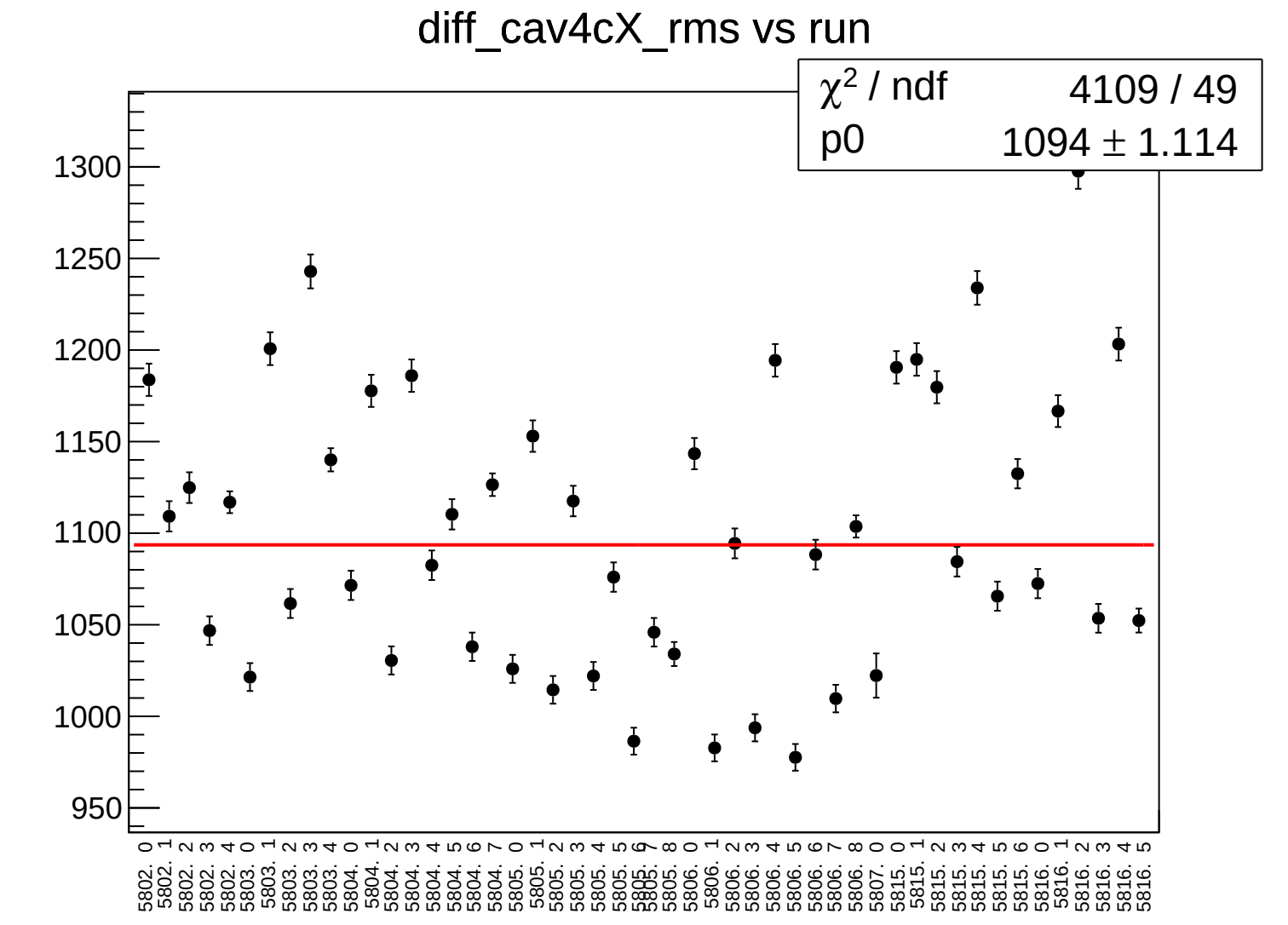

diff_cav4bY_mean vs run
χ² / ndf 46.81 / 49
p0 −0.5388 ± 9.964
200
100
0
−100
−200
−300
pull
Entries 50
Mean 93.75
Std Dev 80.47
2
1
0
−1
−2

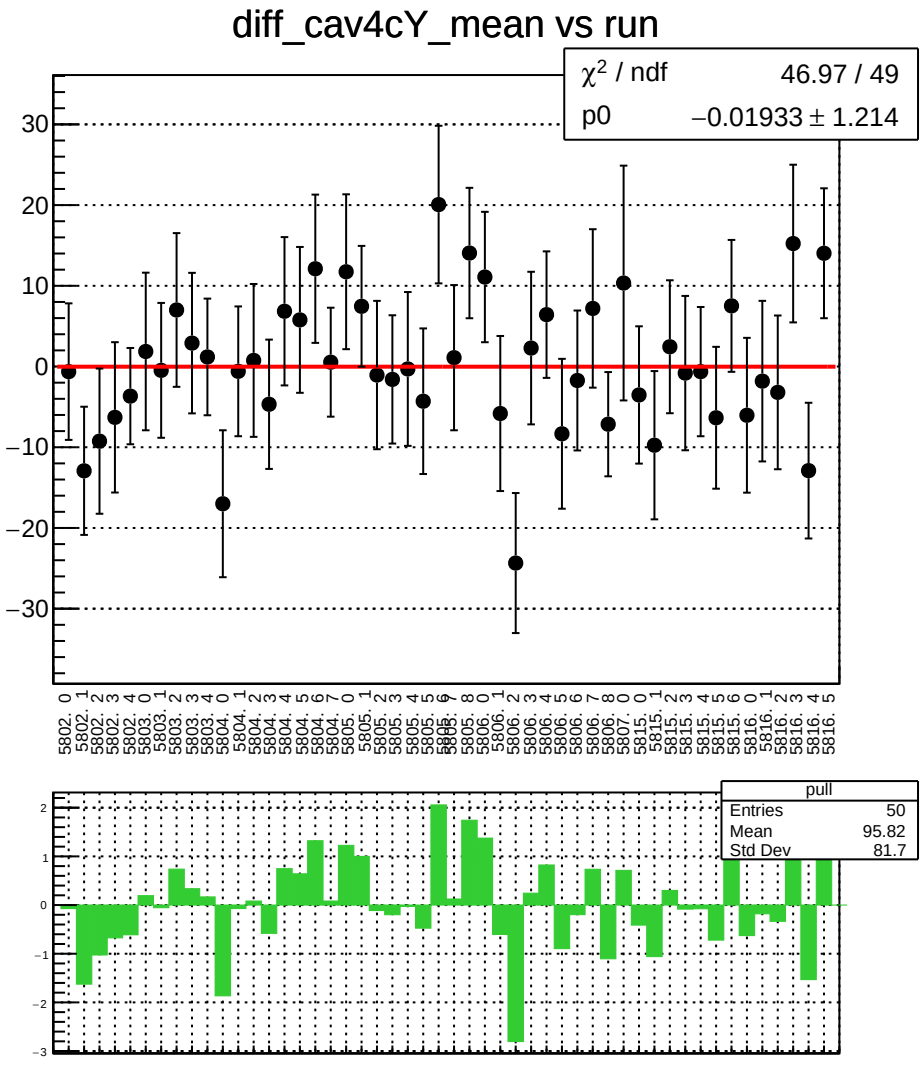

pull1D
Entries 50
Mean 0.01732
Std Dev 0.9674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

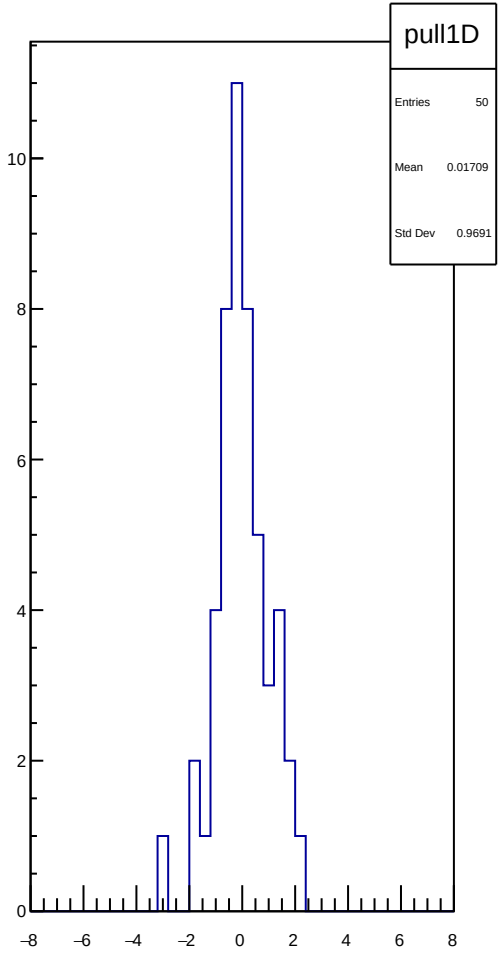

diff_cav4bY_rms vs run
χ² / ndf 5600 / 49
p0 6912 ± 7.046
8000
7500
7000
6500
6000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

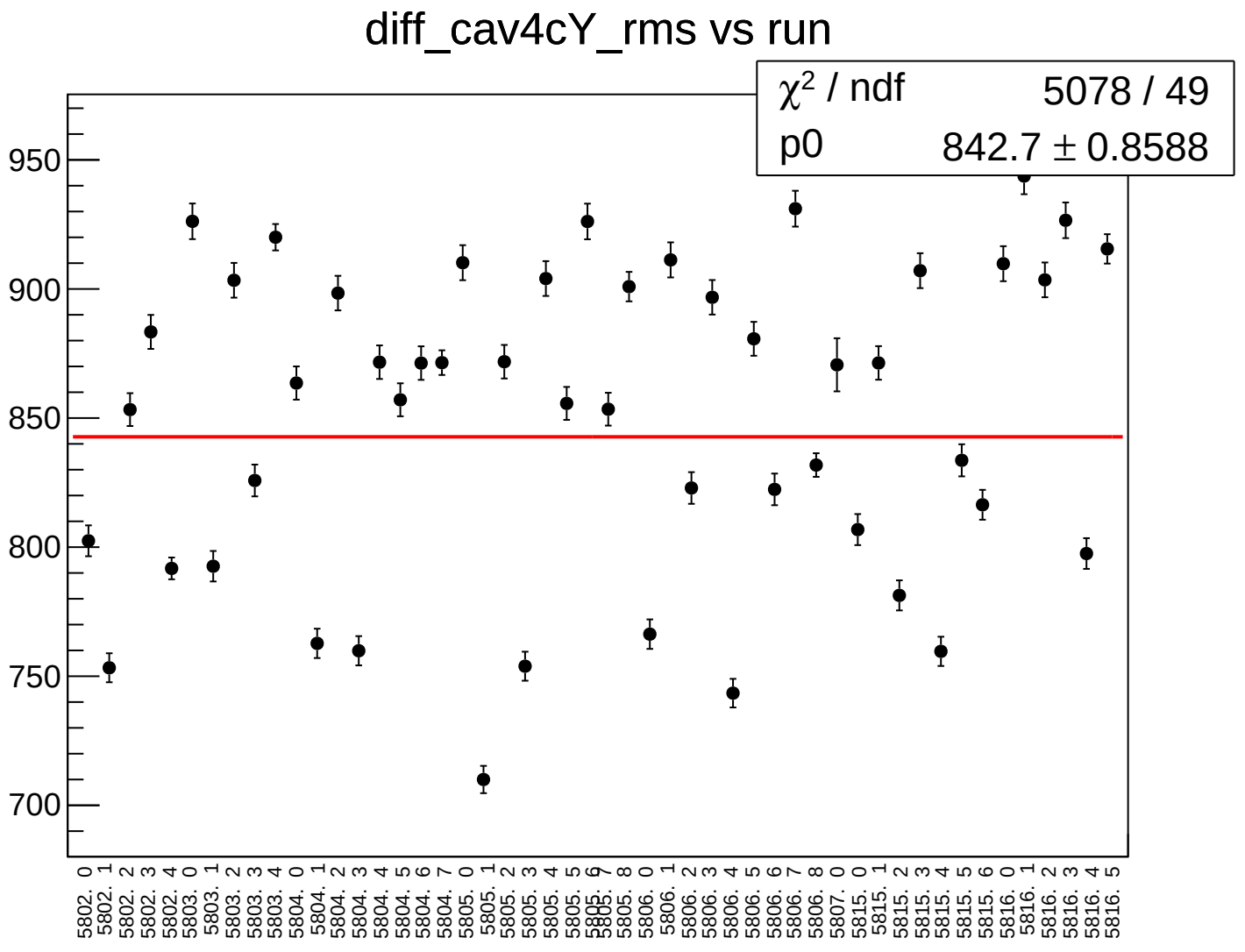

diff_cav4cX_mean vs run
χ² / ndf 72.15 / 49
p0 0.2662 ± 1.575
pull
Entries 50
Mean −124.4
Std Dev 150.6

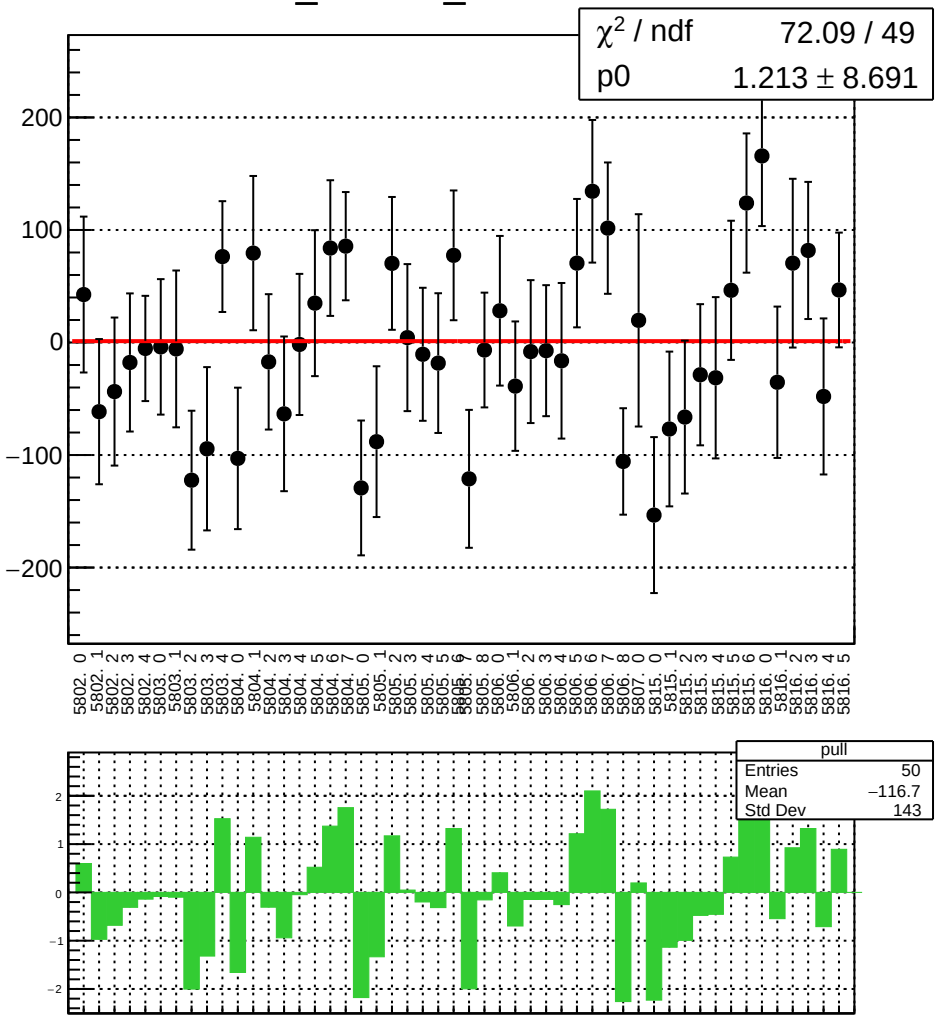

pull1D
Entries 50
Mean −0.02248
Std Dev 1.201

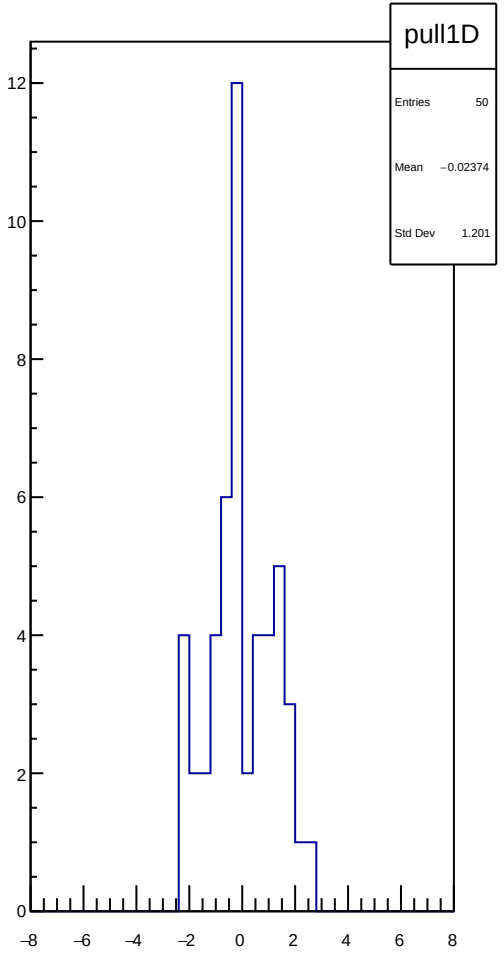

diff_cav4cX_rms vs run
χ² / ndf 4109 / 49
p0 1094 ± 1.114
1300
1250
1200
1150
1100
1050
1000
950
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

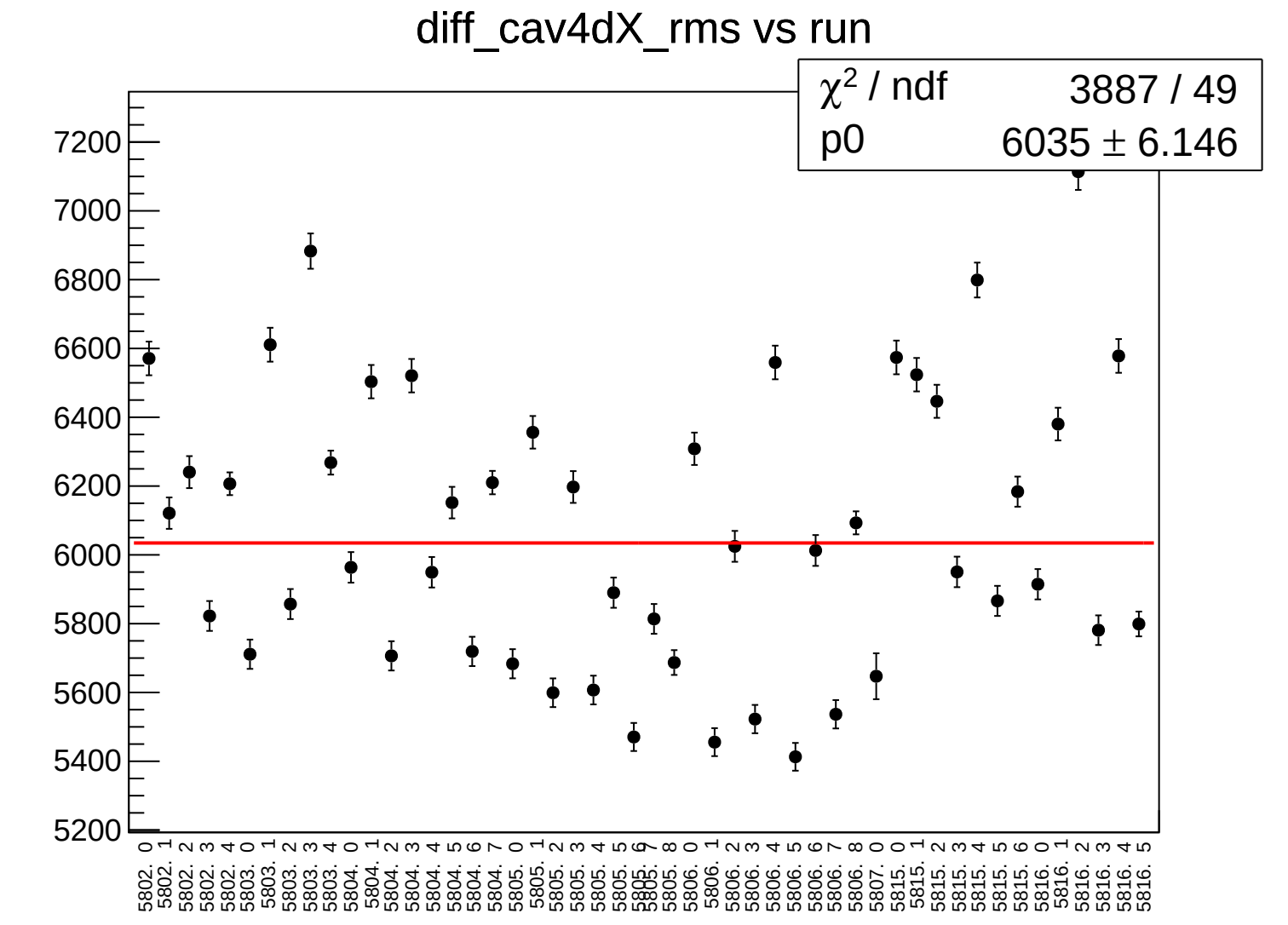

diff_cav4cY_mean vs run
χ² / ndf 46.97 / 49
p0 −0.01933 ± 1.214
30
20
10
0
−10
−20
−30
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 95.82
Std Dev 81.7
2
1
0
−1
−2
−3

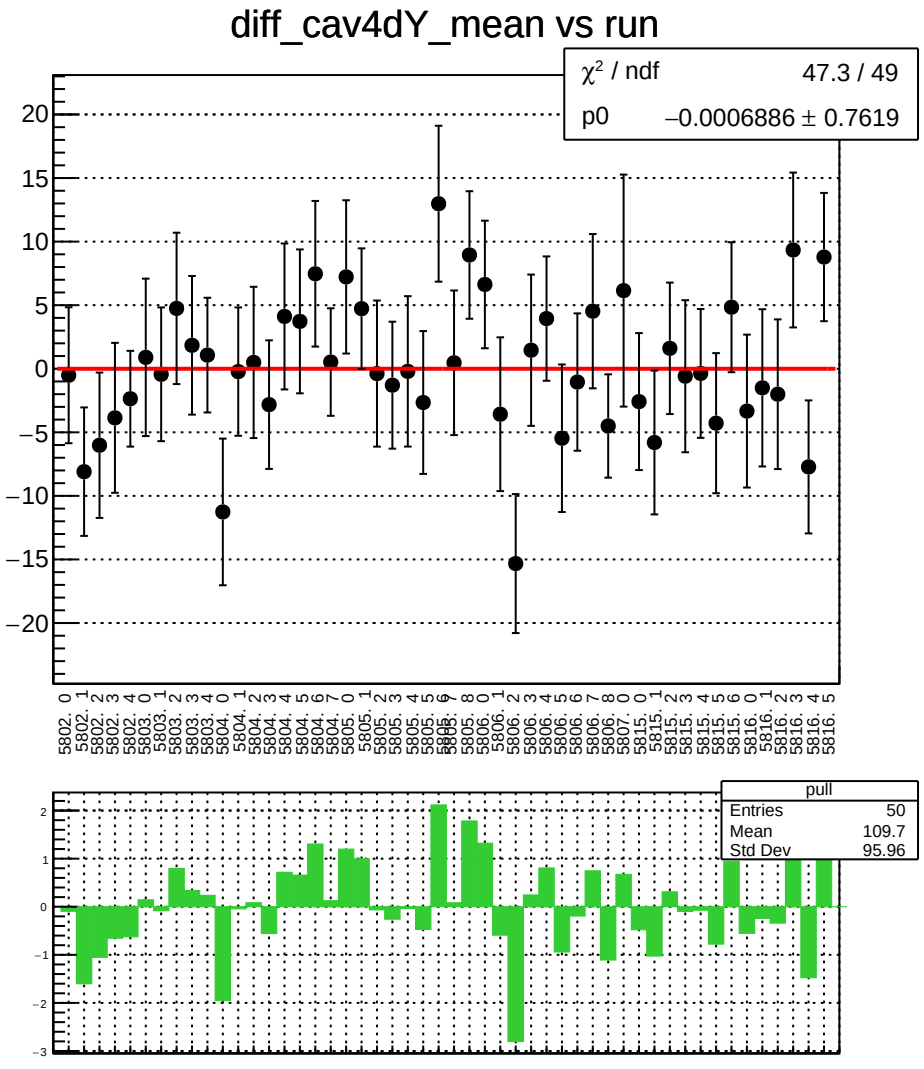

pull1D
Entries 50
Mean 0.01709
Std Dev 0.9691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

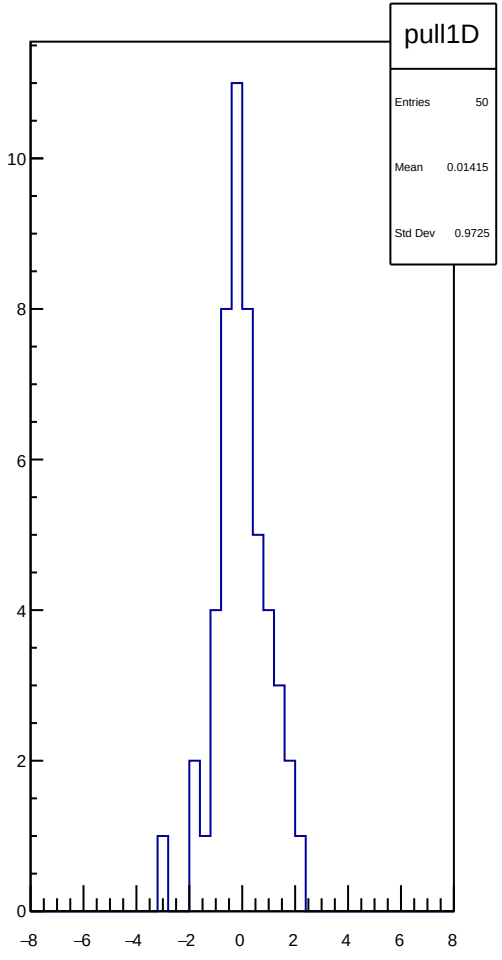

diff_cav4cY_rms vs run
χ² / ndf 5078 / 49
p0 842.7 ± 0.8588
950
900
850
800
750
700
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

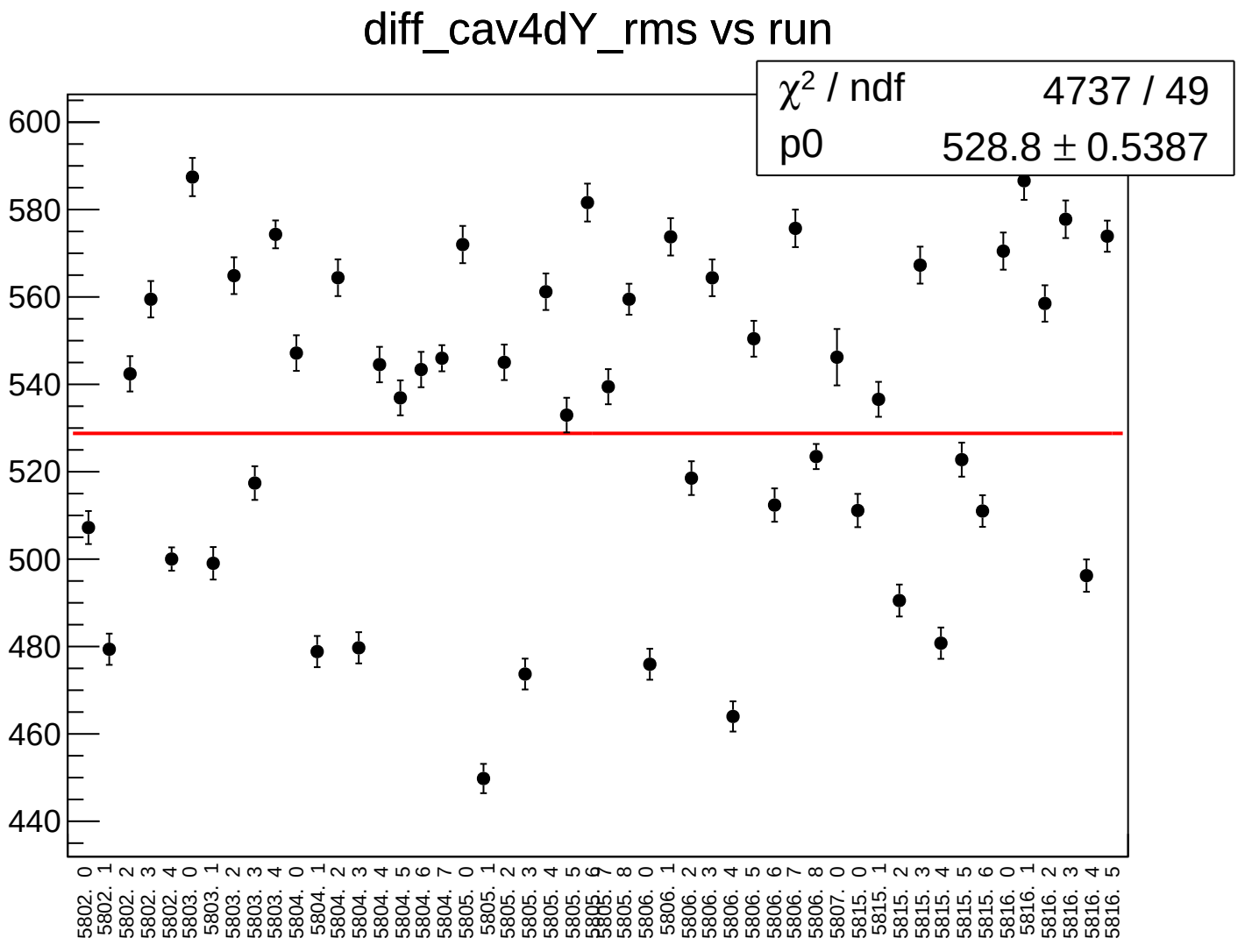

diff_cav4dX_mean vs run
χ² / ndf 72.09 / 49
p0 1.213 ± 8.691
pull
Entries 50
Mean −116.7
Std Dev 143


pull1D
Entries 50
Mean −0.02374
Std Dev 1.201


diff_cav4dX_rms vs run
χ² / ndf 3887 / 49
p0 6035 ± 6.146
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_cav4dY_mean vs run
χ² / ndf 47.3 / 49
p0 −0.0006886 ± 0.7619
pull
Entries 50
Mean 109.7
Std Dev 95.96


pull1D
Entries 50
Mean 0.01415
Std Dev 0.9725


diff_cav4dY_rms vs run
χ² / ndf 4737 / 49
p0 528.8 ± 0.5387
600
580
560
540
520
500
480
460
440
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
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5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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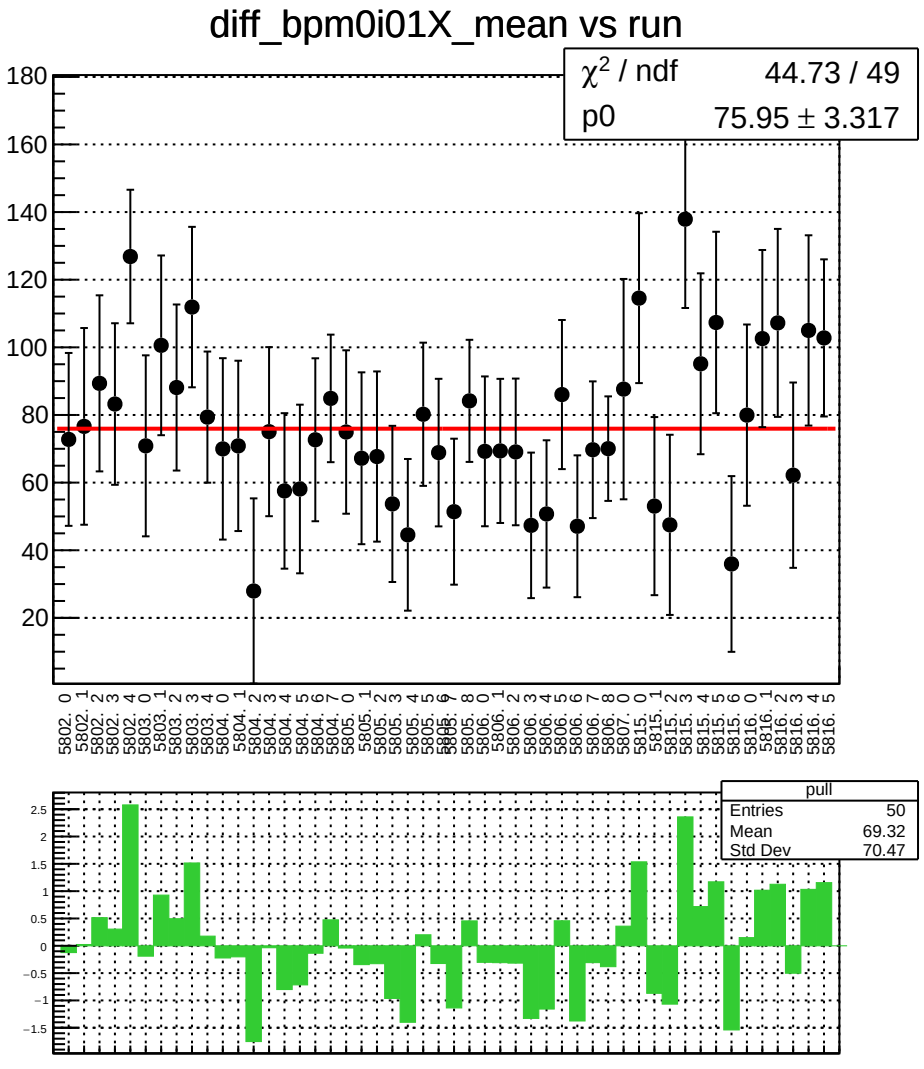
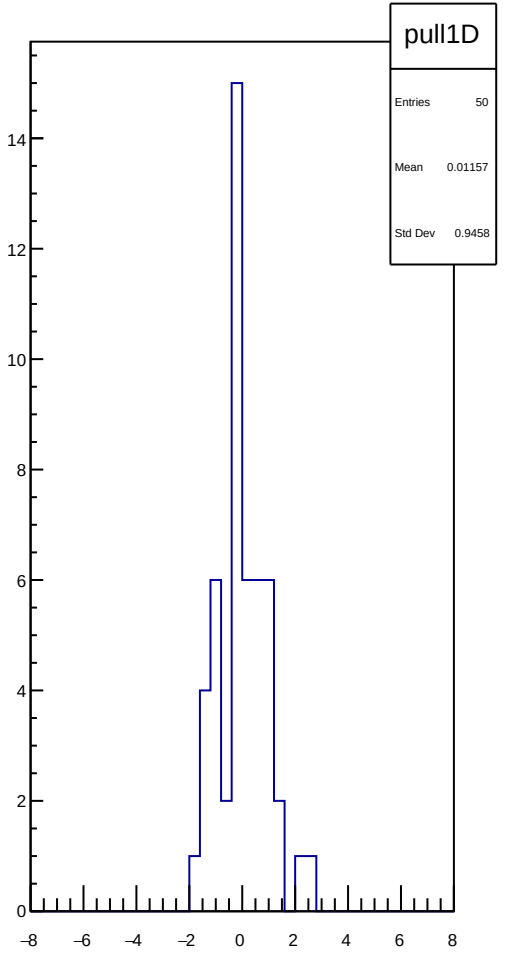
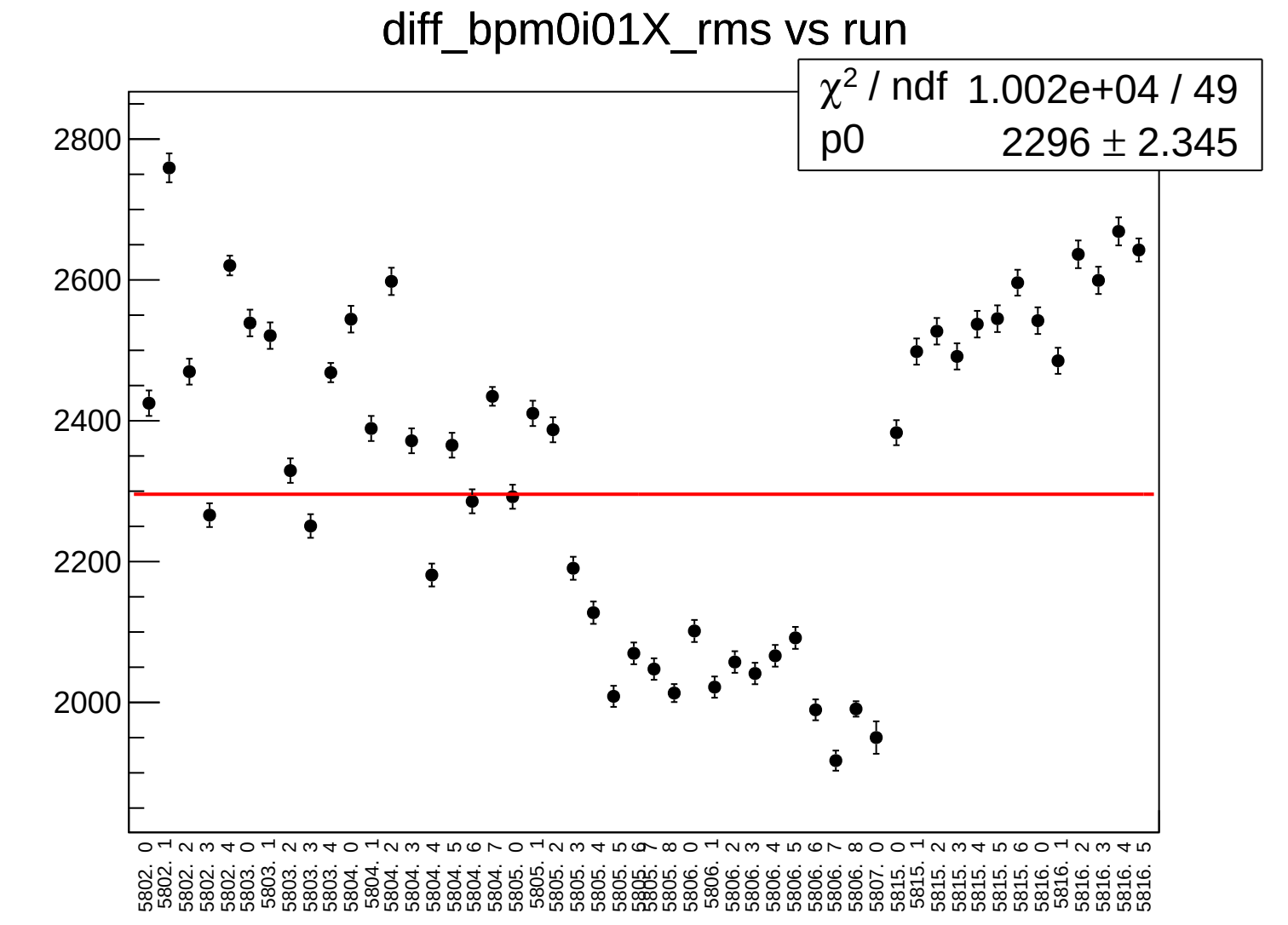
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0i01X_mean vs run
χ^2 / ndf 44.73 / 49
p0 75.95 ± 3.317
pull
Entries 50
Mean 69.32
Std Dev 70.47


pull1D
Entries 50
Mean 0.01157
Std Dev 0.9458


diff_bpm0i01X_rms vs run
χ² / ndf 1.002e+04 / 49
p0 2296 ± 2.345
2800
2600
2400
2200
2000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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5803. 2
5803. 3
5803. 4
5804. 0
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5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
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5806. 2
5806. 3
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5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
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5815. 1
5815. 2
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5815. 5
5815. 6
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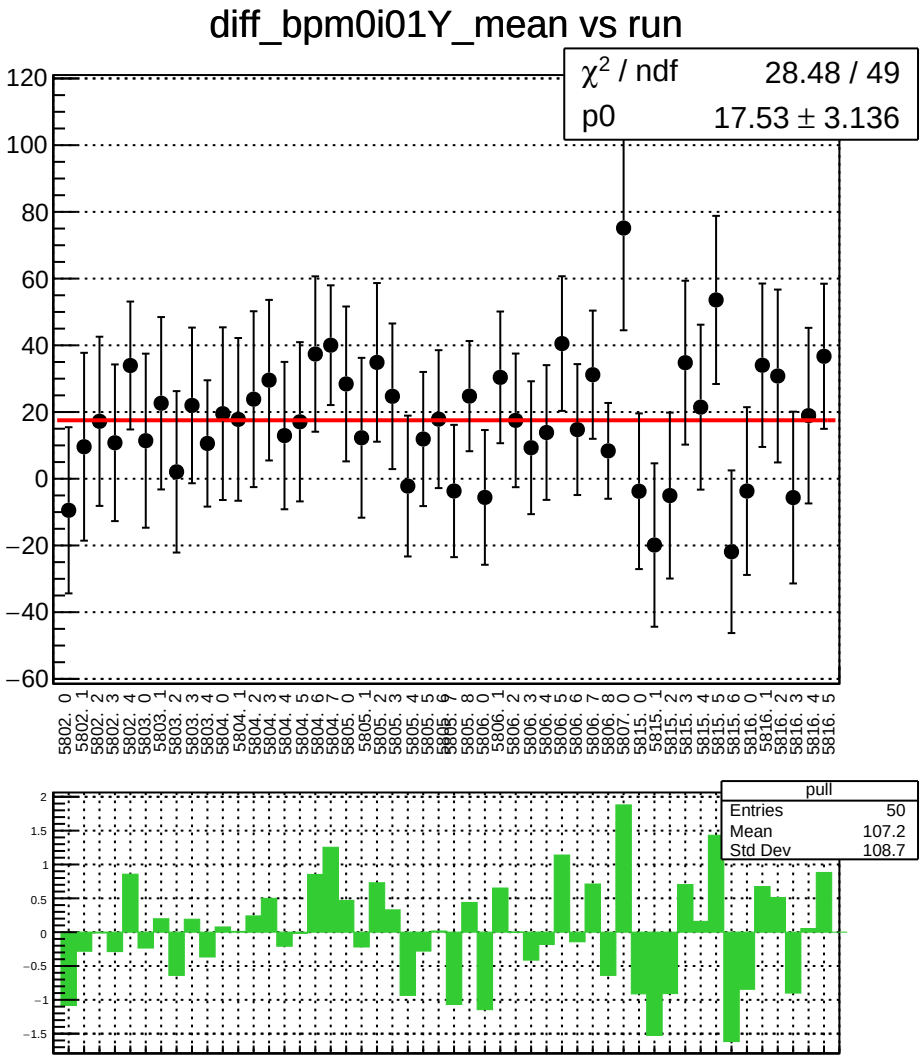
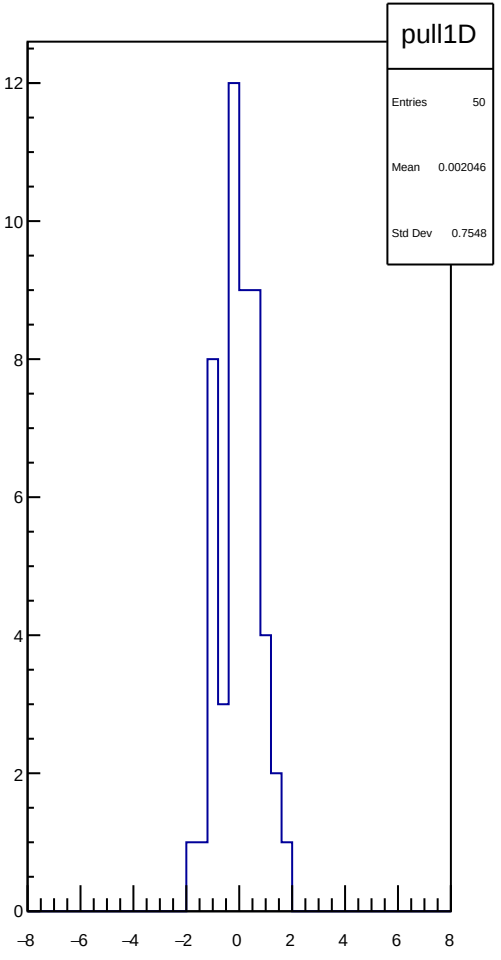
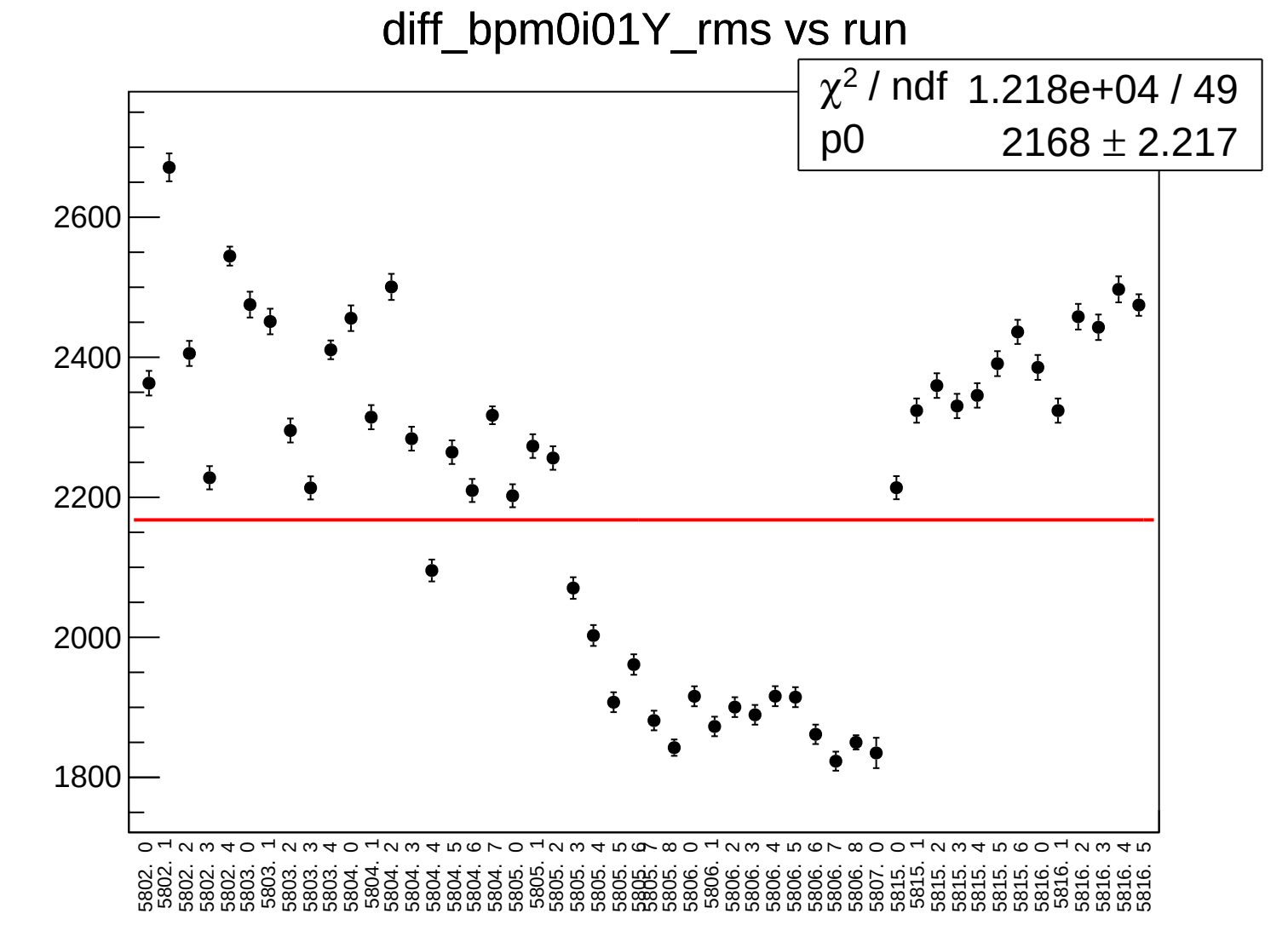
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0i01Y_mean vs run
χ^2 / ndf 28.48 / 49
p0 17.53 ± 3.136
pull
Entries 50
Mean 107.2
Std Dev 108.7


pull1D
Entries 50
Mean 0.002046
Std Dev 0.7548


diff_bpm0i01Y_rms vs run
χ² / ndf 1.218e+04 / 49
p0 2168 ± 2.217
2600
2400
2200
2000
1800
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
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5815. 5
5815. 6
5816. 0
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5816. 2
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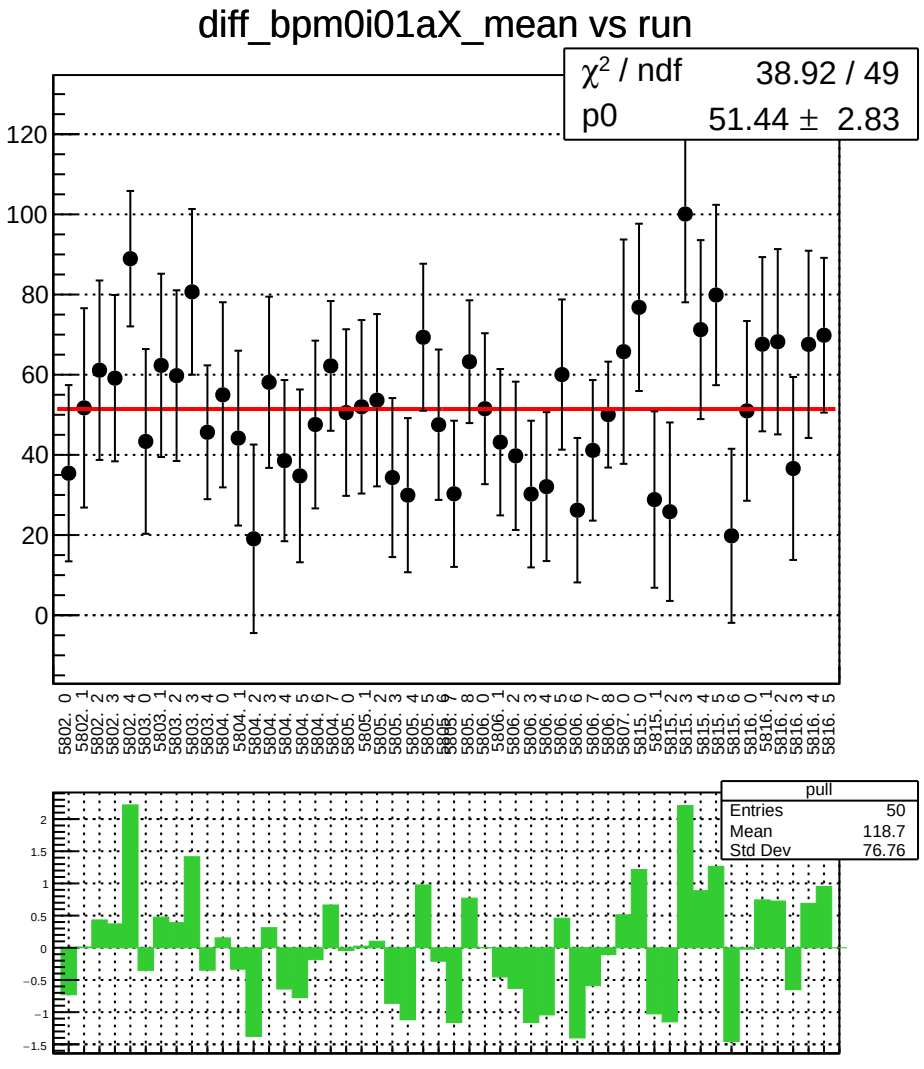
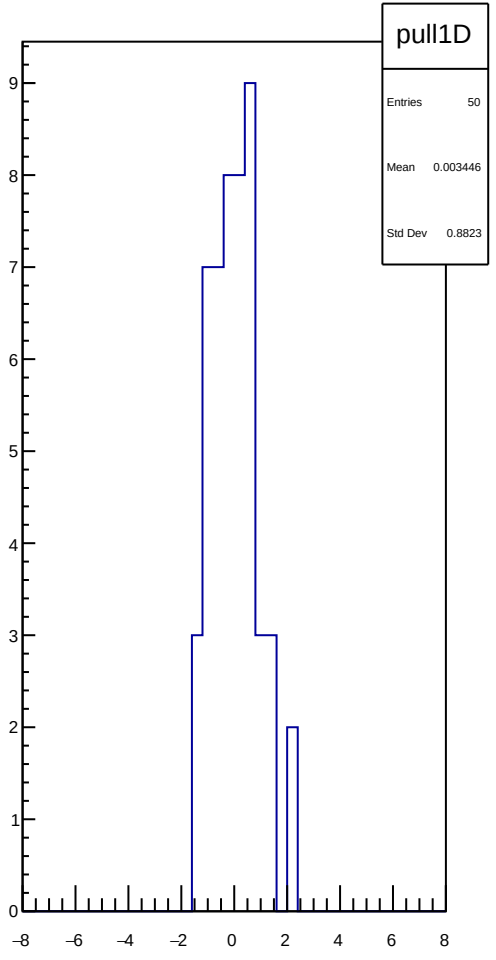
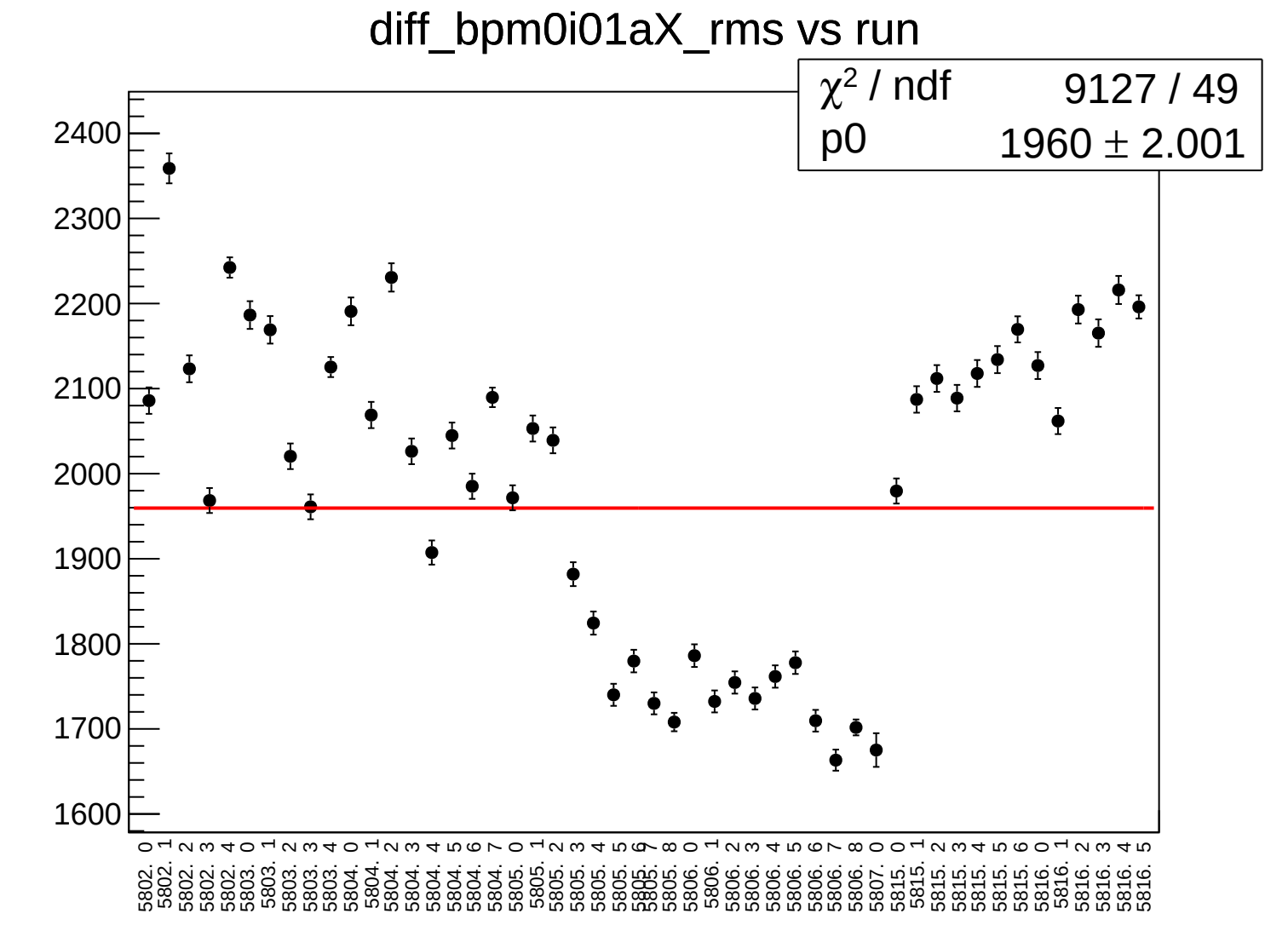
5816. 4
5816. 5


diff_bpm0i01aX_mean vs run
χ² / ndf 38.92 / 49
p0 51.44 ± 2.83
pull
Entries 50
Mean 118.7
Std Dev 76.76


pull1D
Entries 50
Mean 0.003446
Std Dev 0.8823


diff_bpm0i01aX_rms vs run
χ² / ndf 9127 / 49
p0 1960 ± 2.001
2400
2300
2200
2100
2000
1900
1800
1700
1600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
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5815. 2
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5815. 5
5815. 6
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5816. 2
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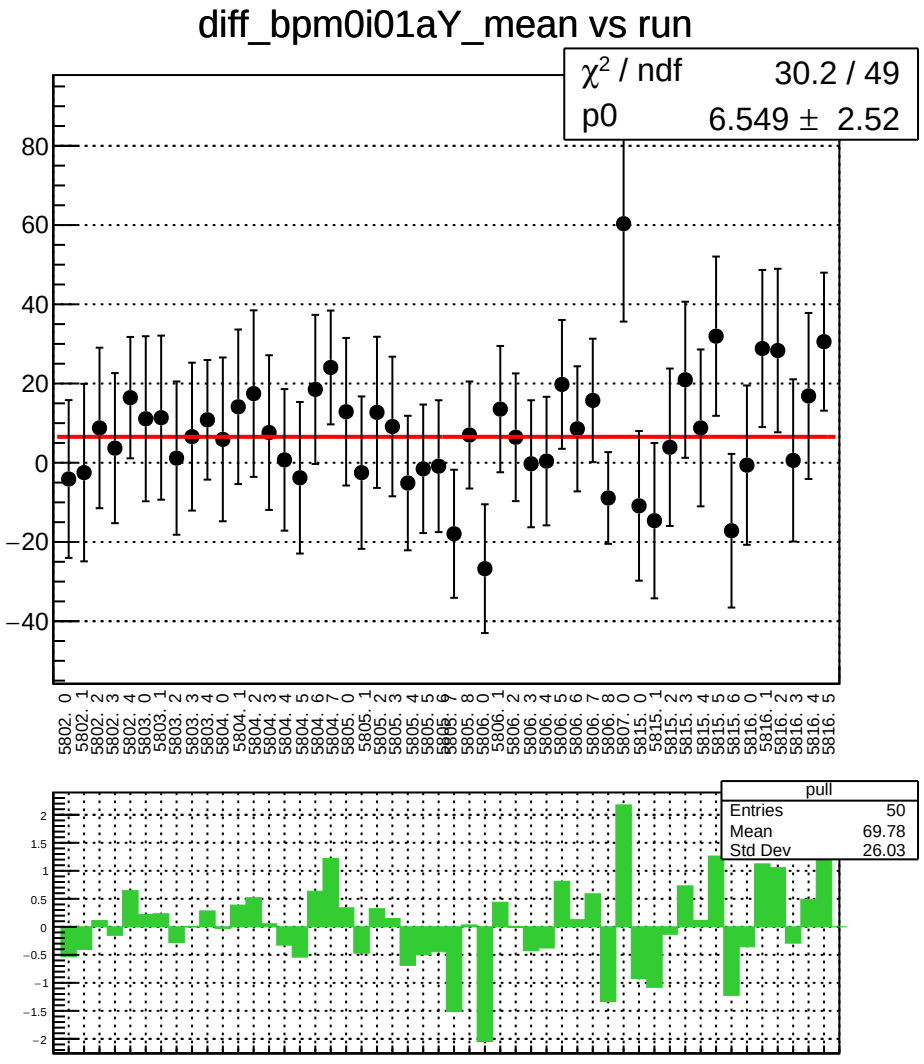
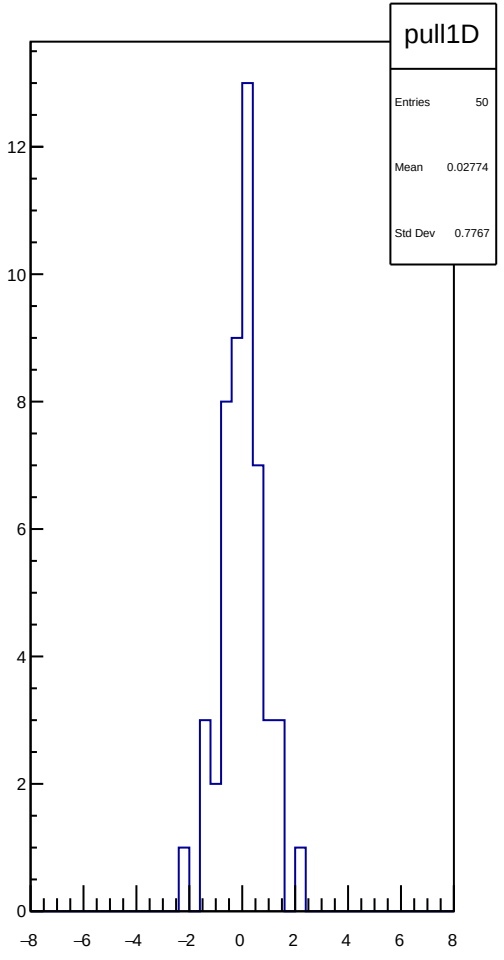
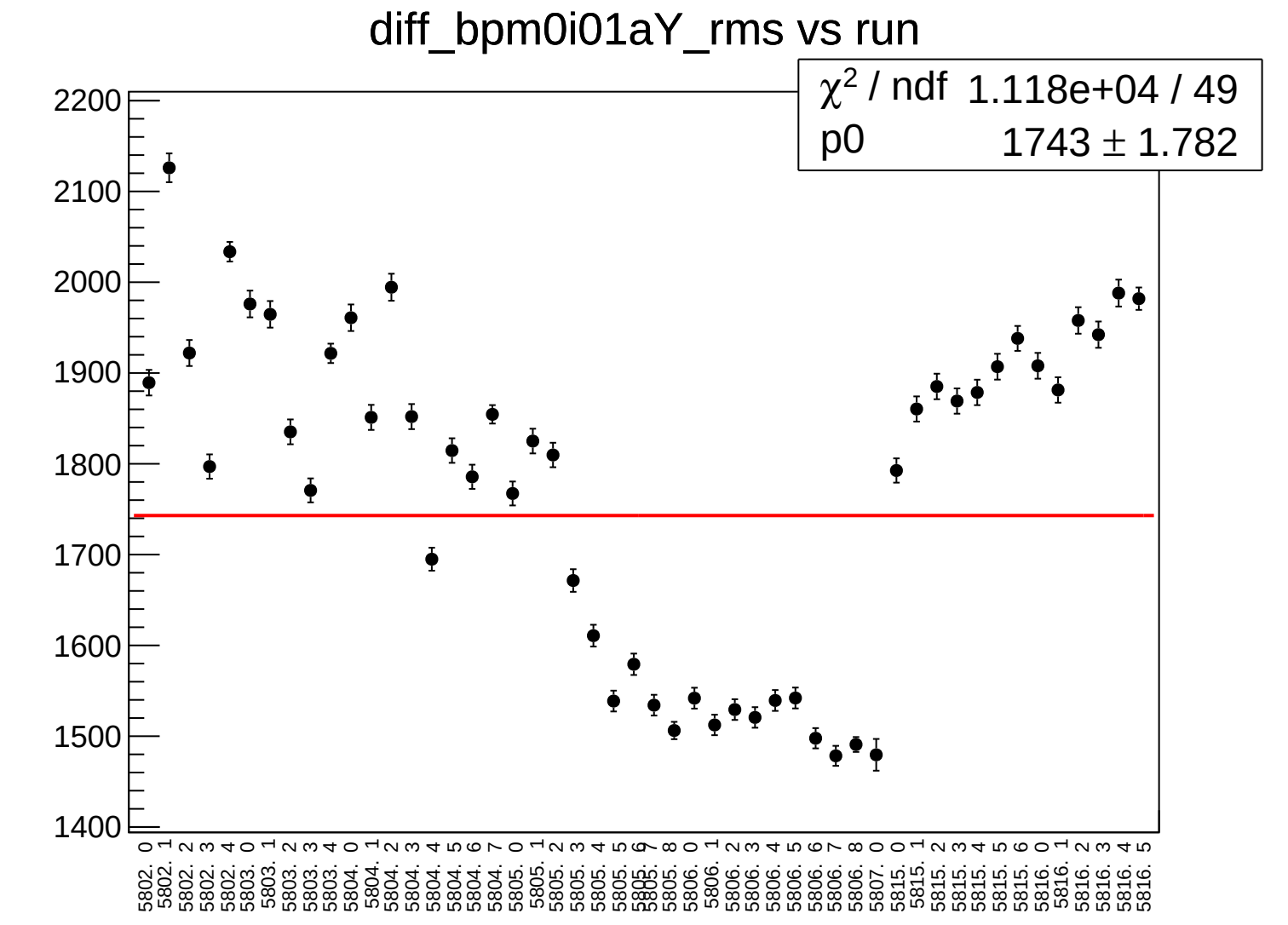
5816. 4
5816. 5


diff_bpm0i01aY_mean vs run
χ² / ndf 30.2 / 49
p0 6.549 ± 2.52
pull
Entries 50
Mean 69.78
Std Dev 26.03


pull1D
Entries 50
Mean 0.02774
Std Dev 0.7767


diff_bpm0i01aY_rms vs run
χ² / ndf 1.118e+04 / 49
p0 1743 ± 1.782
2200
2100
2000
1900
1800
1700
1600
1500
1400
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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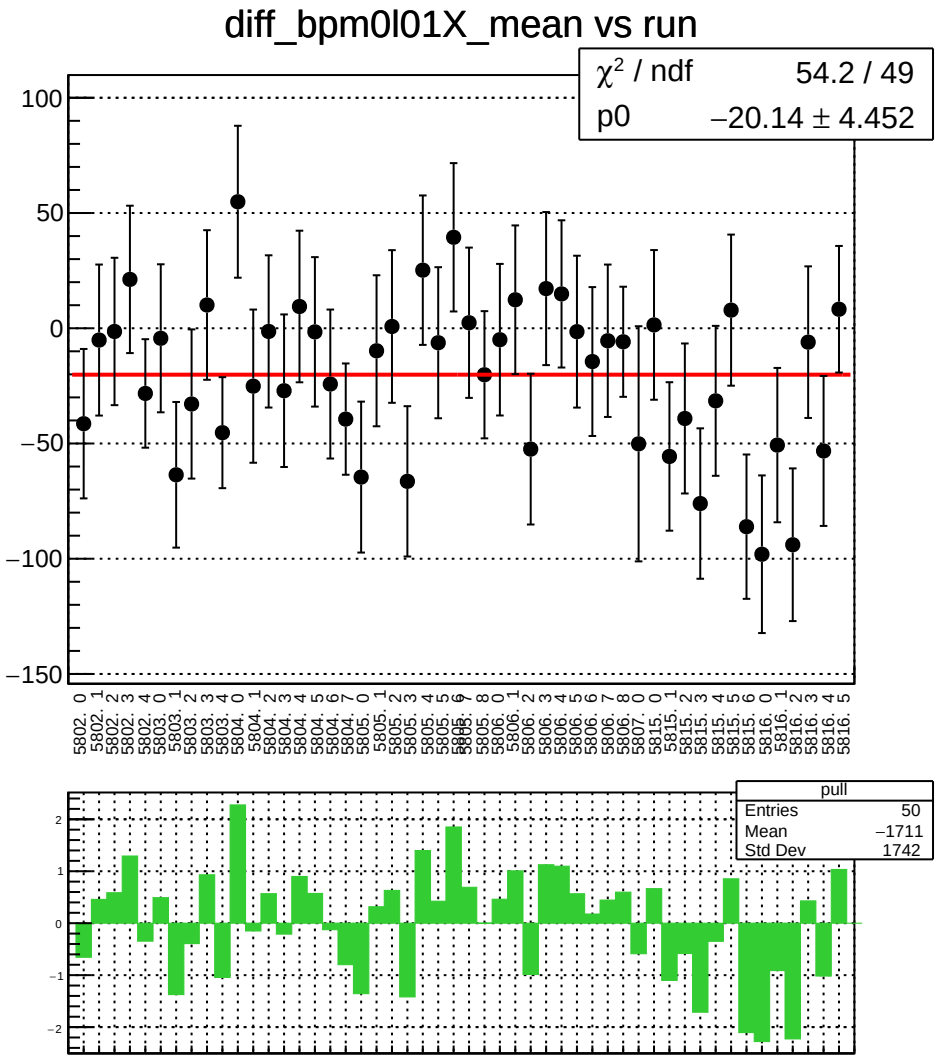
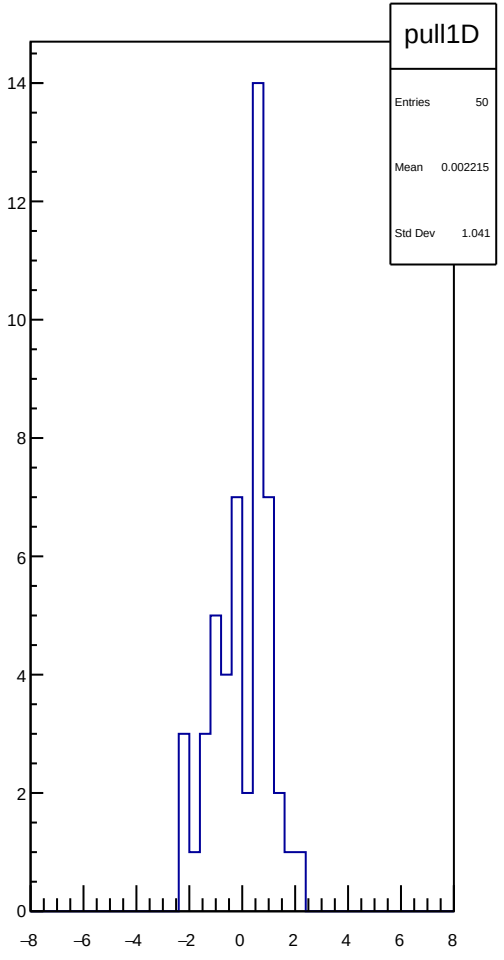
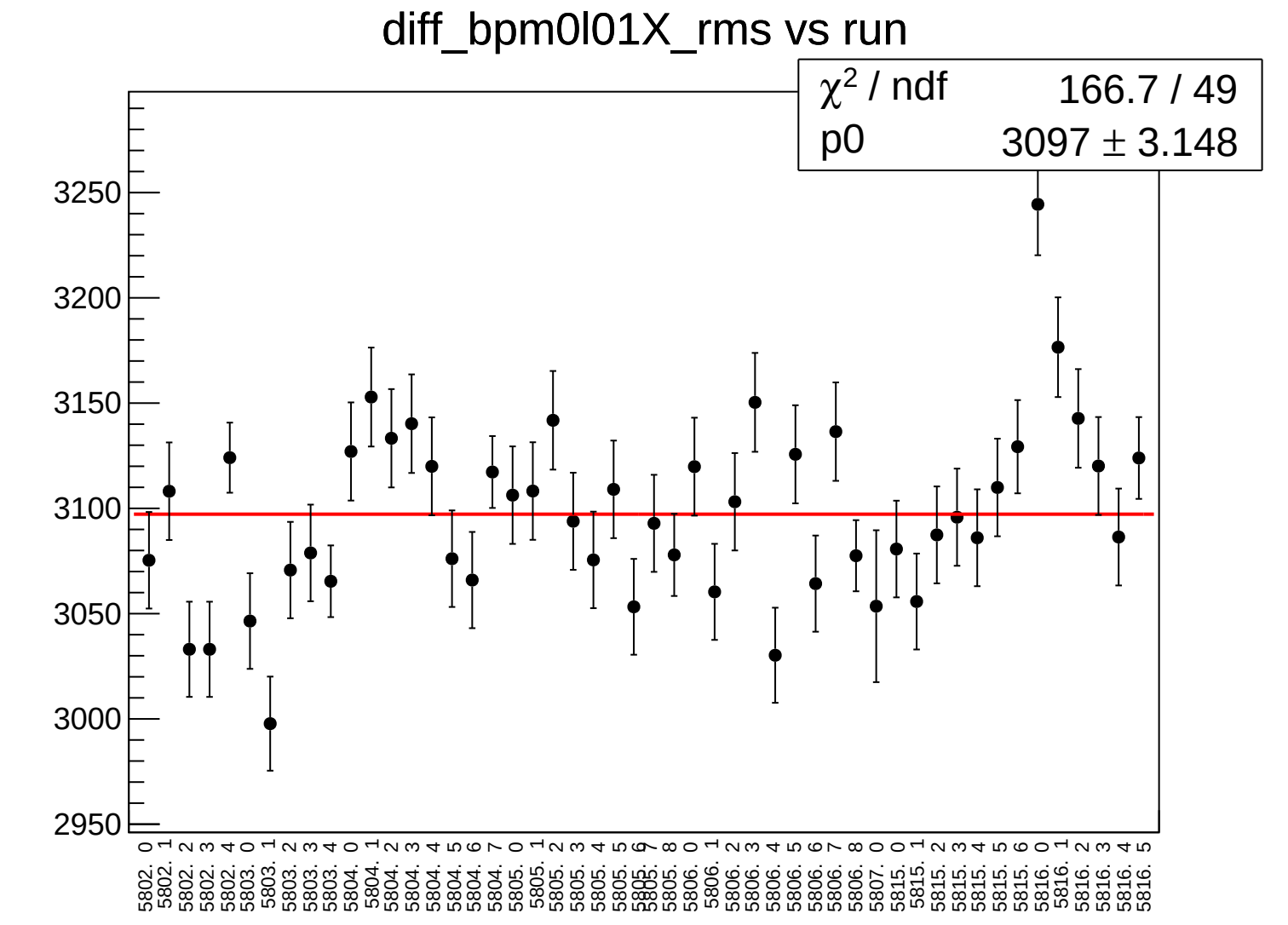
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0l01X_mean vs run
χ² / ndf 54.2 / 49
p0 −20.14 ± 4.452
100
50
0
−50
−100
−150
pull
Entries 50
Mean −1711
Std Dev 1742
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.002215
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l01X_rms vs run
χ² / ndf 166.7 / 49
p0 3097 ± 3.148
3250
3200
3150
3100
3050
3000
2950
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
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5804. 5
5804. 6
5804. 7
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5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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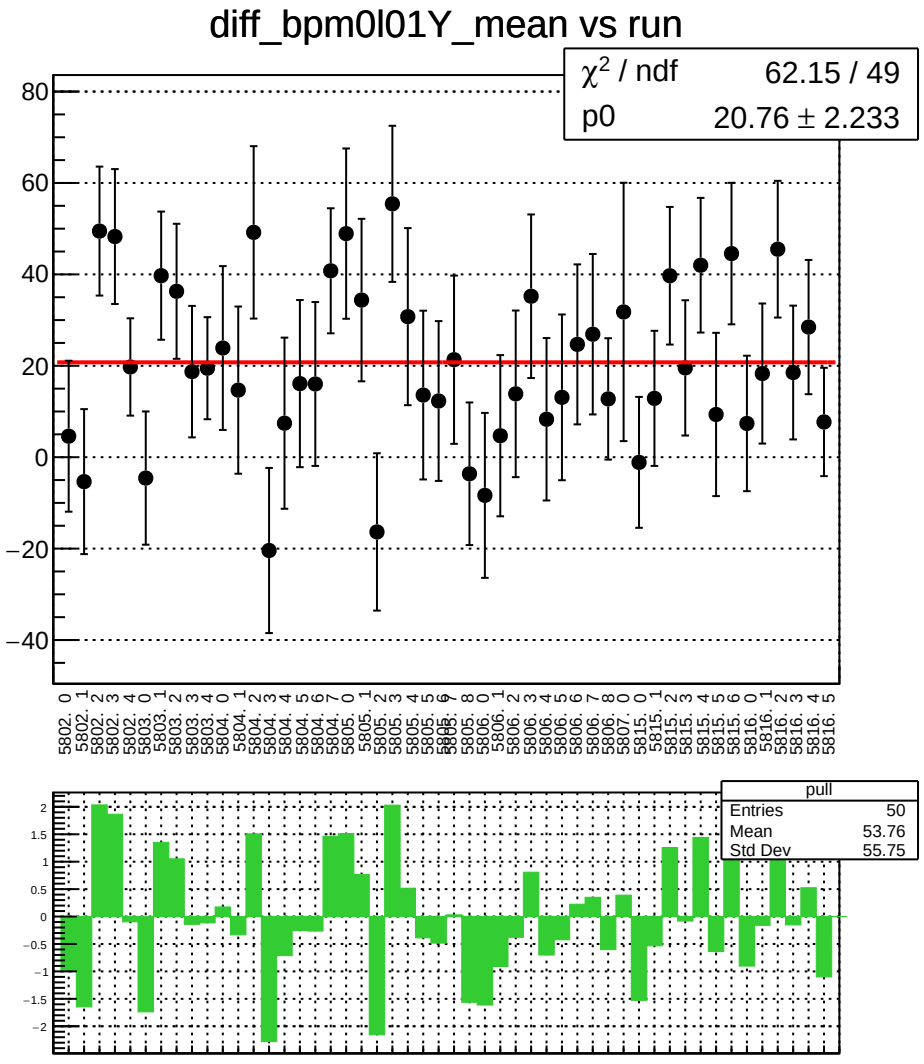
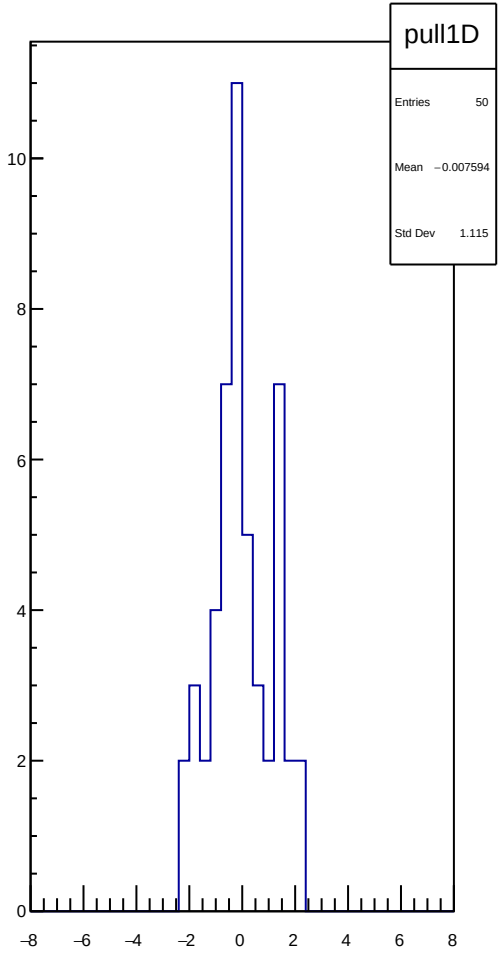
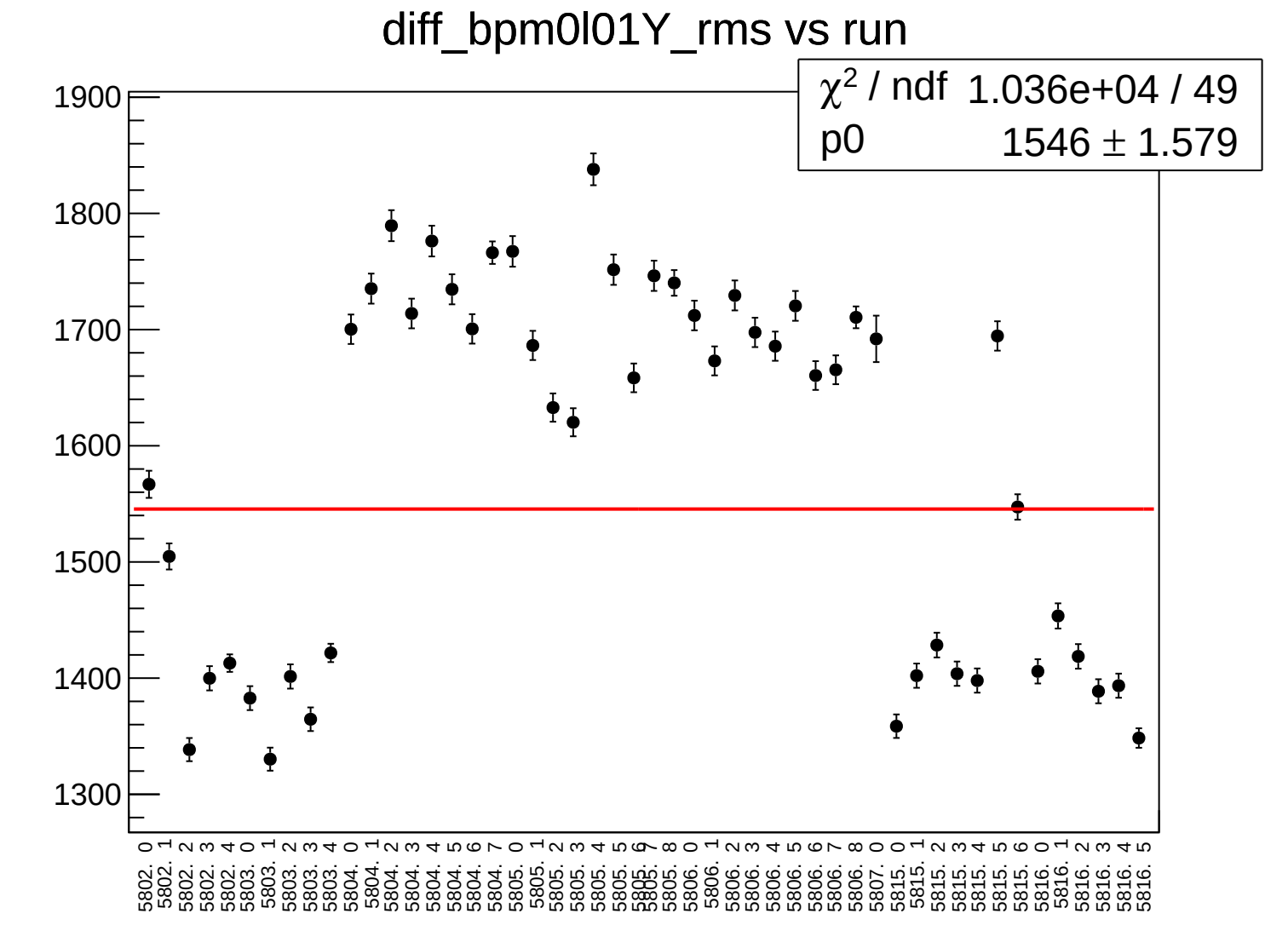
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0l01Y_mean vs run
χ^2 / ndf 62.15 / 49
p0 20.76 ± 2.233
pull
Entries 50
Mean 53.76
Std Dev 55.75


pull1D
Entries 50
Mean −0.007594
Std Dev 1.115


diff_bpm0l01Y_rms vs run
χ² / ndf 1.036e+04 / 49
p0 1546 ± 1.579
1900
1800
1700
1600
1500
1400
1300
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
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5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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5816. 2
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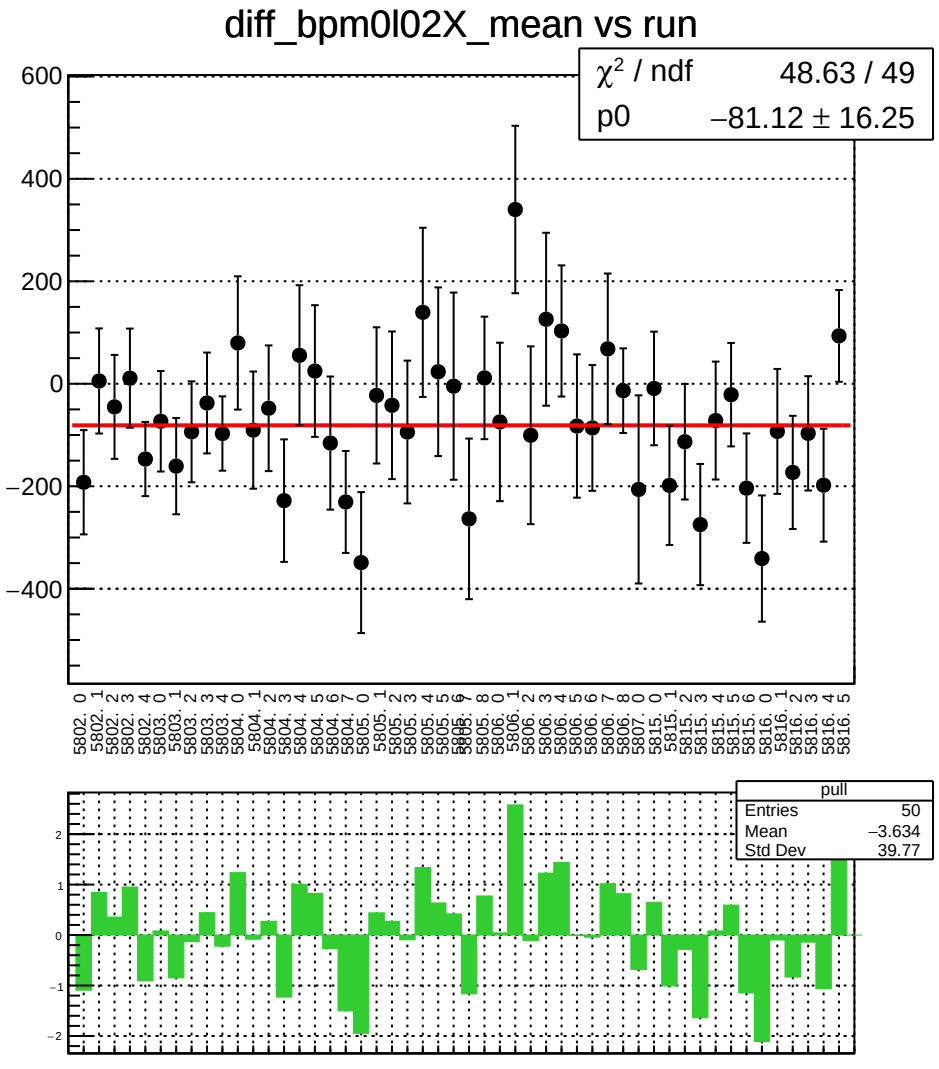
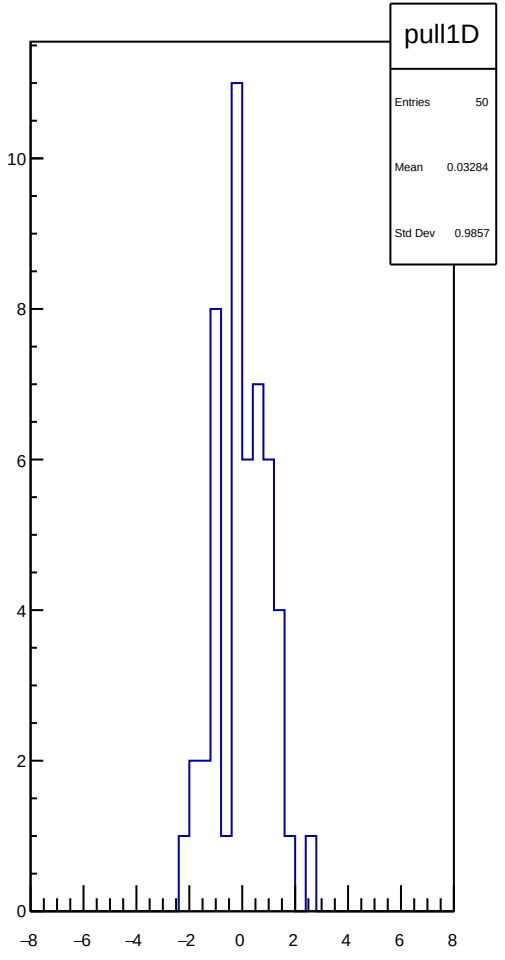
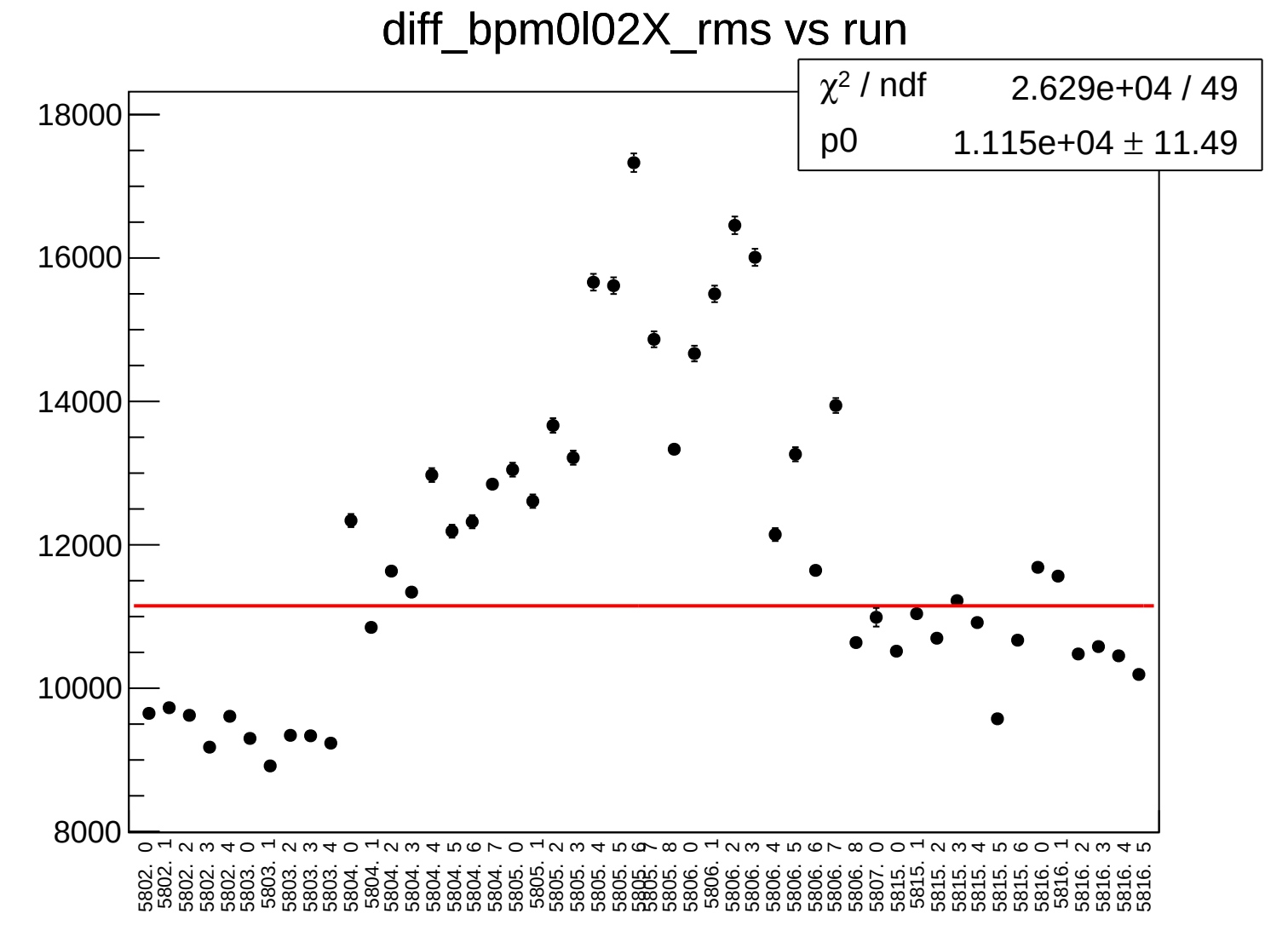
5816. 4
5816. 5


diff_bpm0l02X_mean vs run
χ^2 / ndf 48.63 / 49
p0 −81.12 ± 16.25
600
400
200
0
−200
−400
pull
Entries 50
Mean −3.634
Std Dev 39.77
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.03284
Std Dev 0.9857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l02X_rms vs run
χ² / ndf 2.629e+04 / 49
p0 1.115e+04 ± 11.49
18000
16000
14000
12000
10000
8000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
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5815. 5
5815. 6
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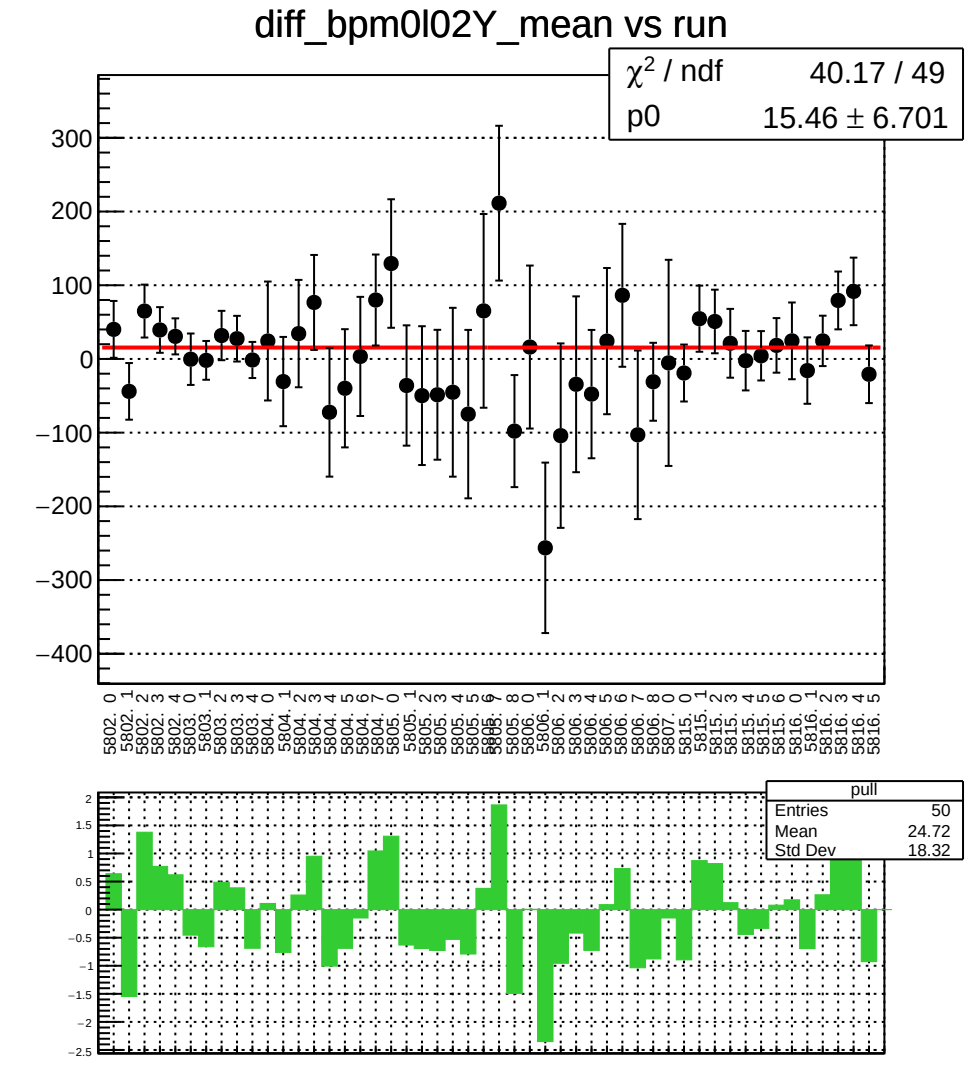
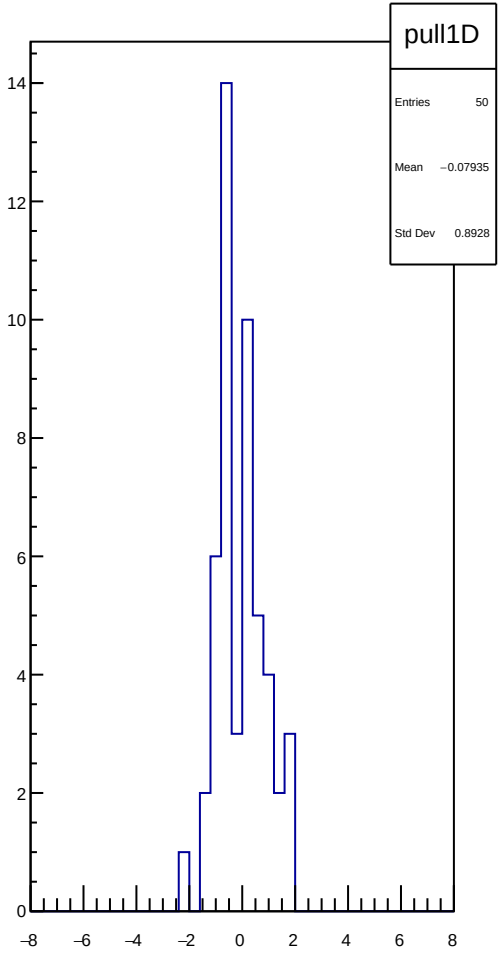
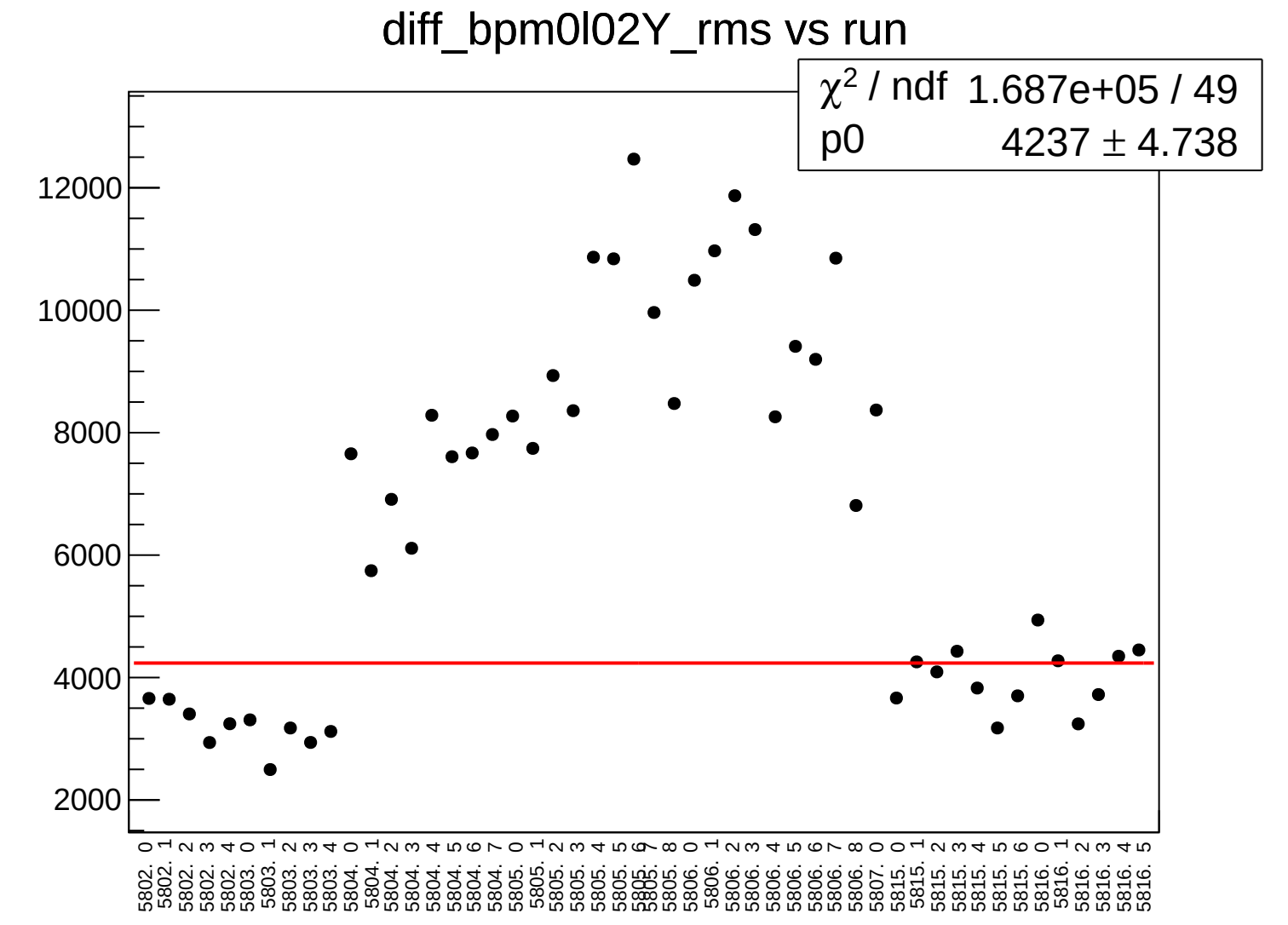
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0l02Y_mean vs run
χ² / ndf 40.17 / 49
p0 15.46 ± 6.701
pull
Entries 50
Mean 24.72
Std Dev 18.32


pull1D
Entries 50
Mean −0.07935
Std Dev 0.8928


diff_bpm0l02Y_rms vs run
χ² / ndf 1.687e+05 / 49
p0 4237 ± 4.738
12000
10000
8000
6000
4000
2000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
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5804. 0
5804. 1
5804. 2
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5804. 6
5804. 7
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5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
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5806. 8
5807. 0
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5815. 2
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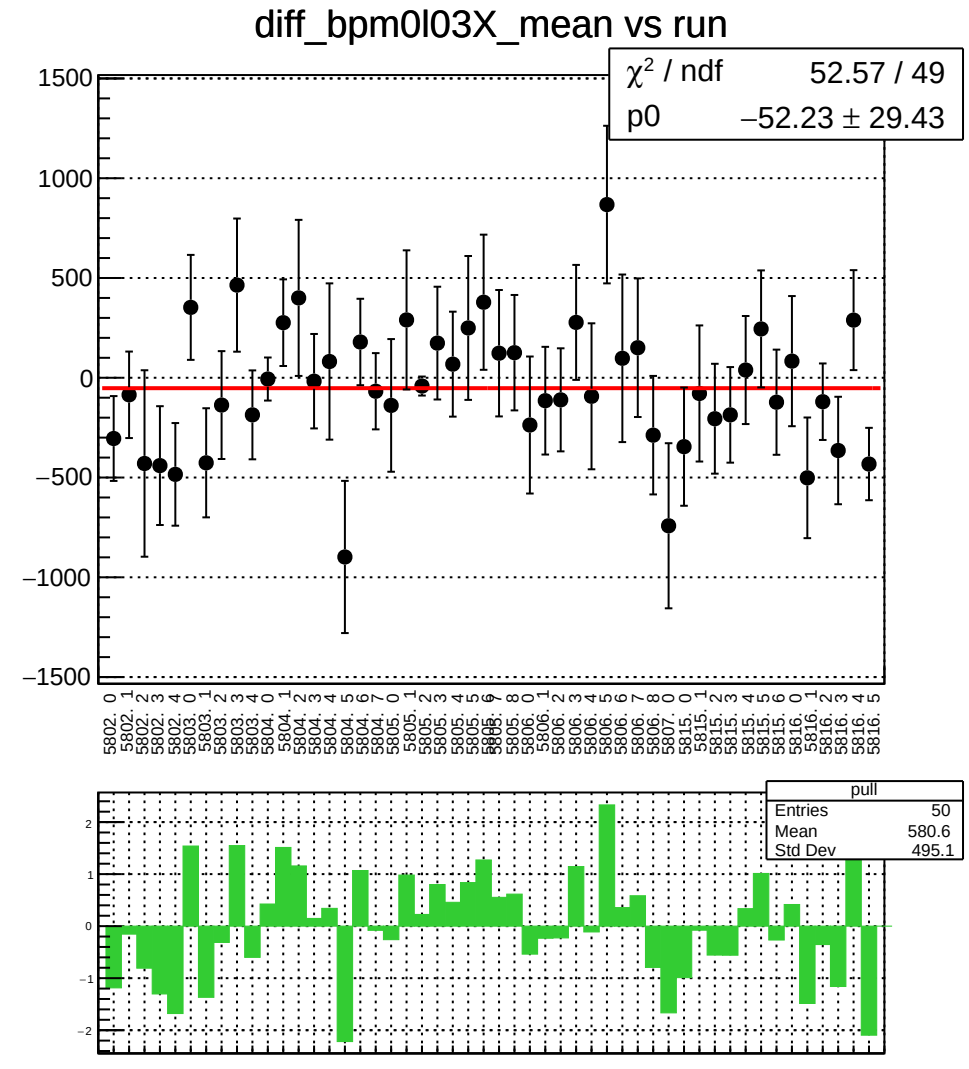
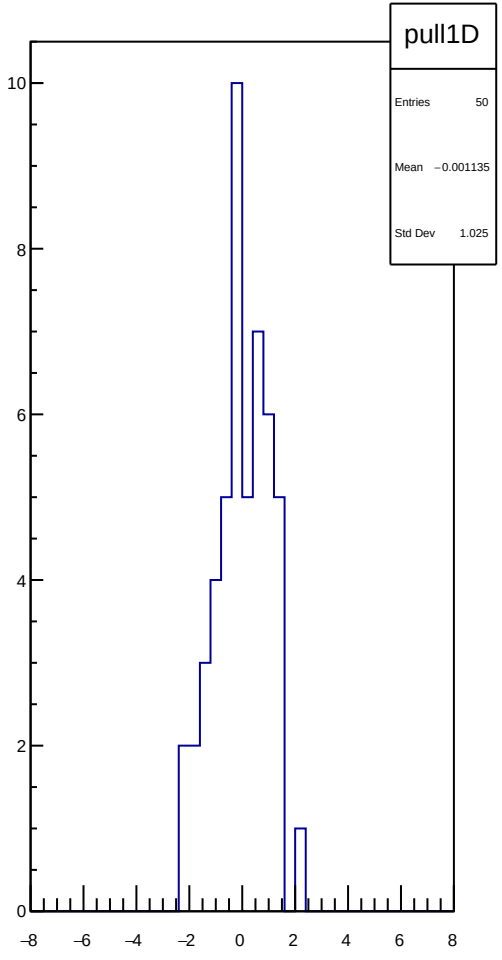
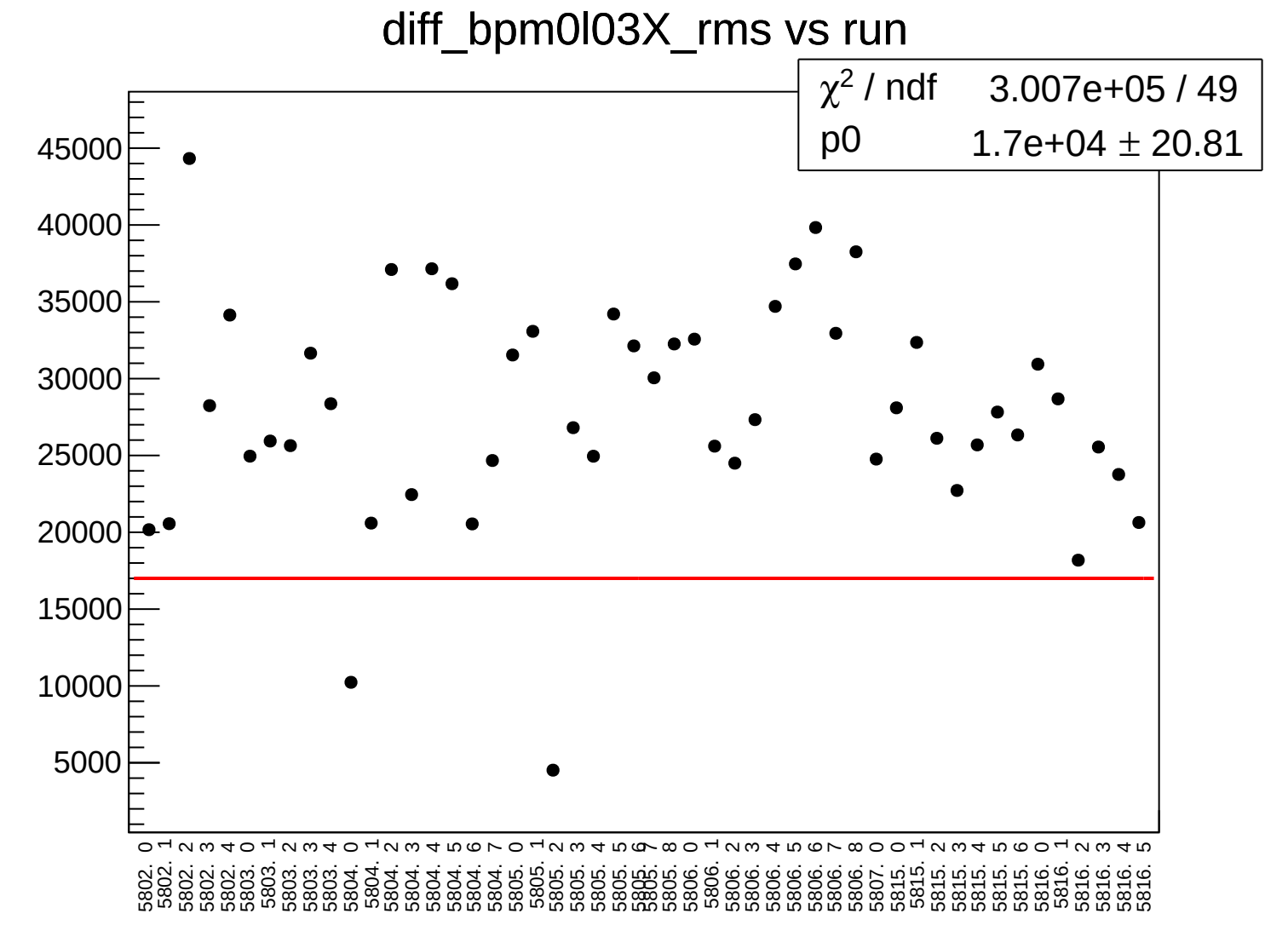
5816. 5


diff_bpm0l03X_mean vs run
χ² / ndf 52.57 / 49
p0 −52.23 ± 29.43
pull
Entries 50
Mean 580.6
Std Dev 495.1


pull1D
Entries 50
Mean −0.001135
Std Dev 1.025


diff_bpm0l03X_rms vs run
χ² / ndf 3.007e+05 / 49
p0 1.7e+04 ± 20.81
45000
40000
35000
30000
25000
20000
15000
10000
5000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
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5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
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5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
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5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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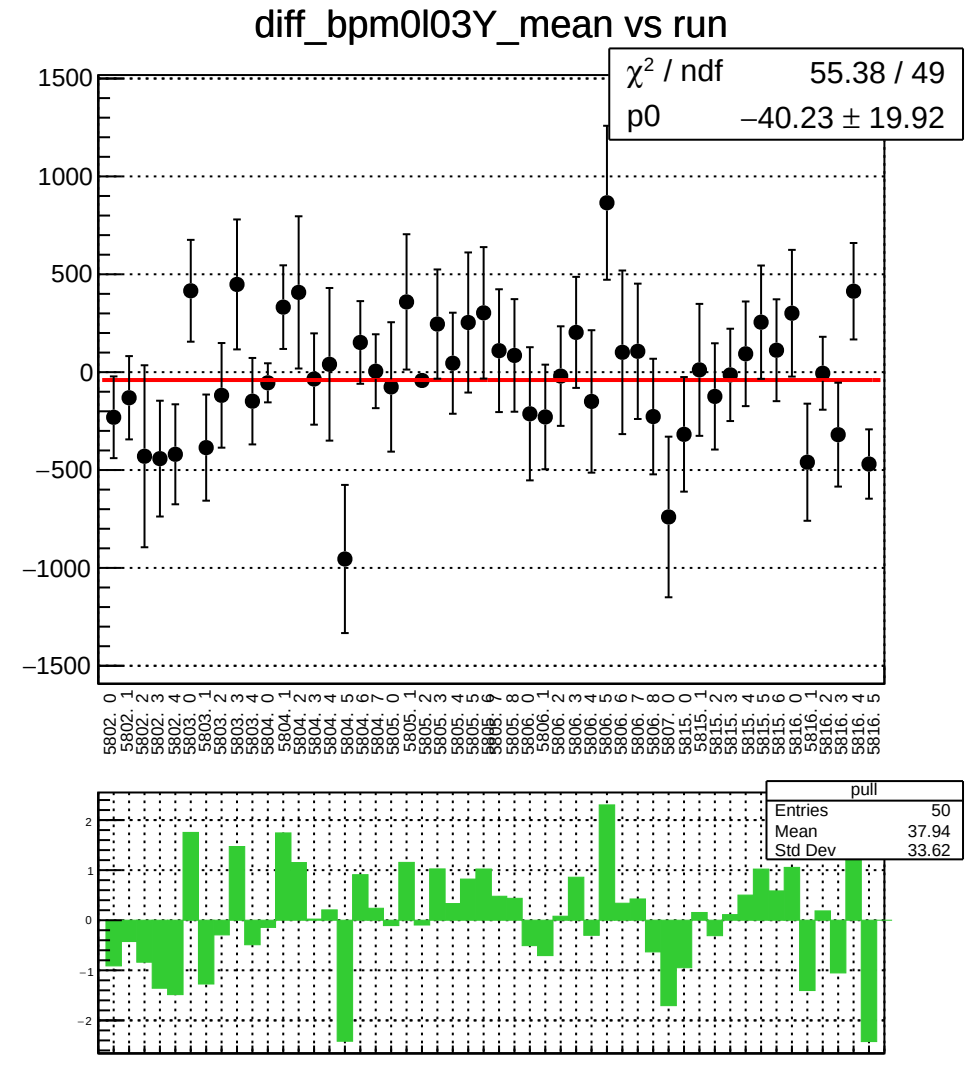
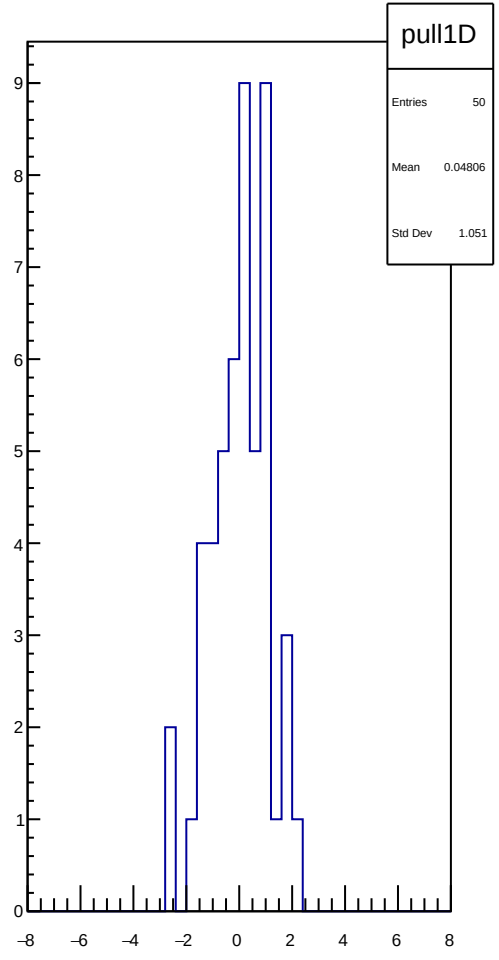
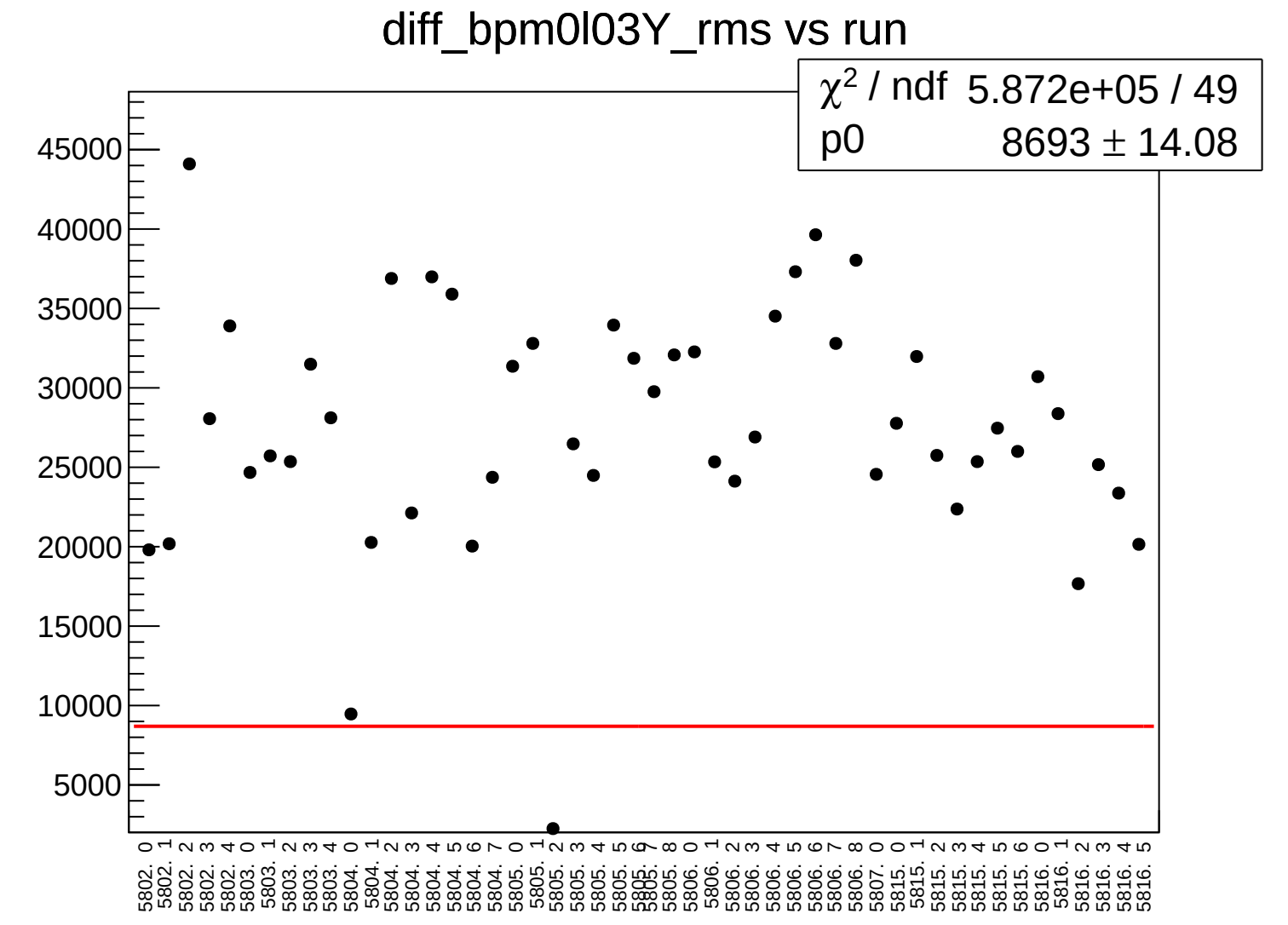
5816. 5


diff_bpm0l03Y_mean vs run
χ² / ndf 55.38 / 49
p0 −40.23 ± 19.92
pull
Entries 50
Mean 37.94
Std Dev 33.62


pull1D
Entries 50
Mean 0.04806
Std Dev 1.051


diff_bpm0l03Y_rms vs run
χ² / ndf 5.872e+05 / 49
p0 8693 ± 14.08
45000
40000
35000
30000
25000
20000
15000
10000
5000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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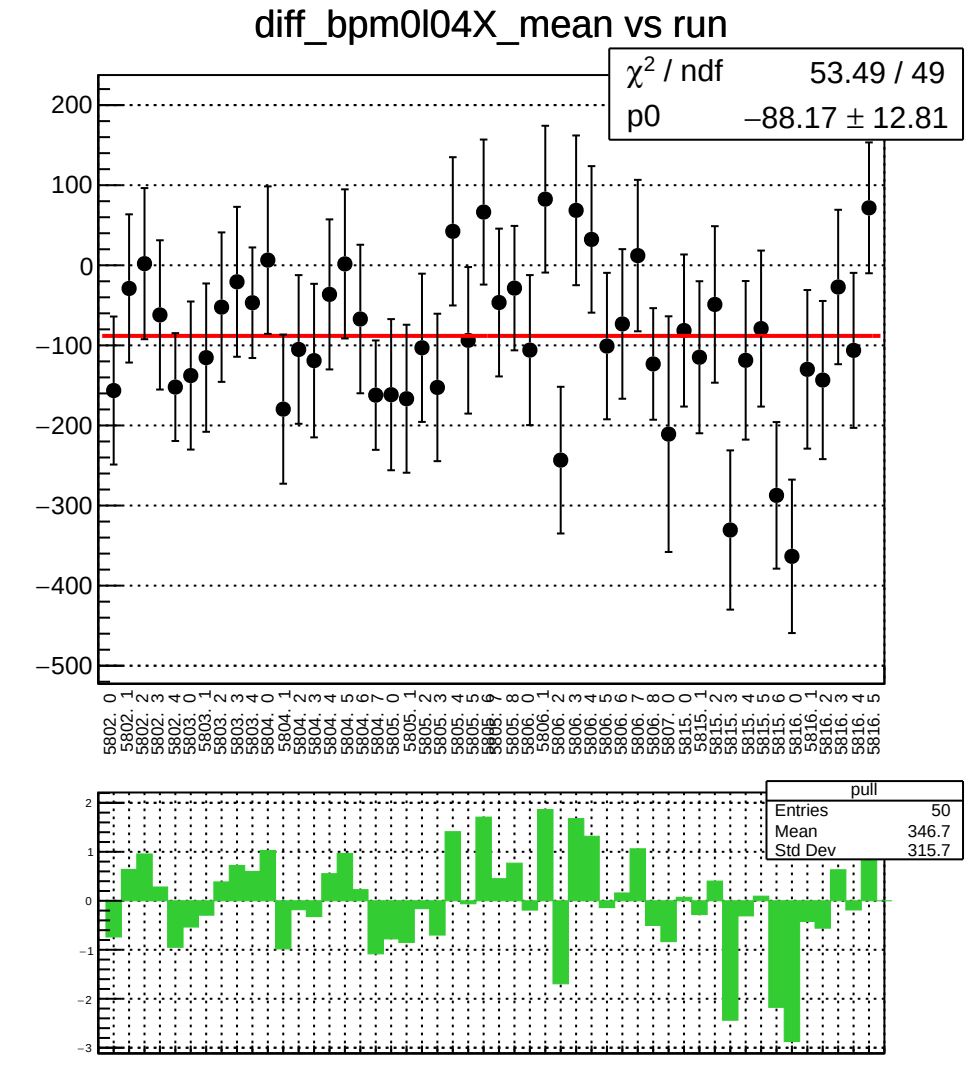
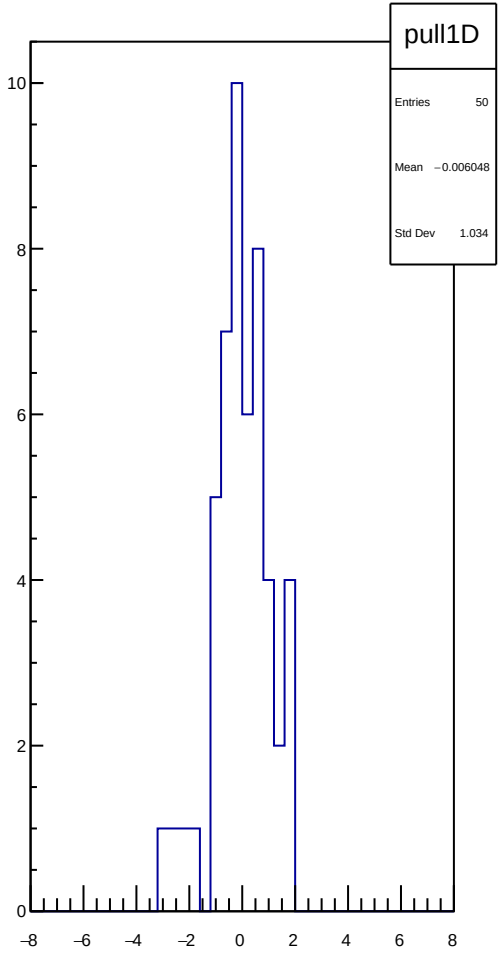
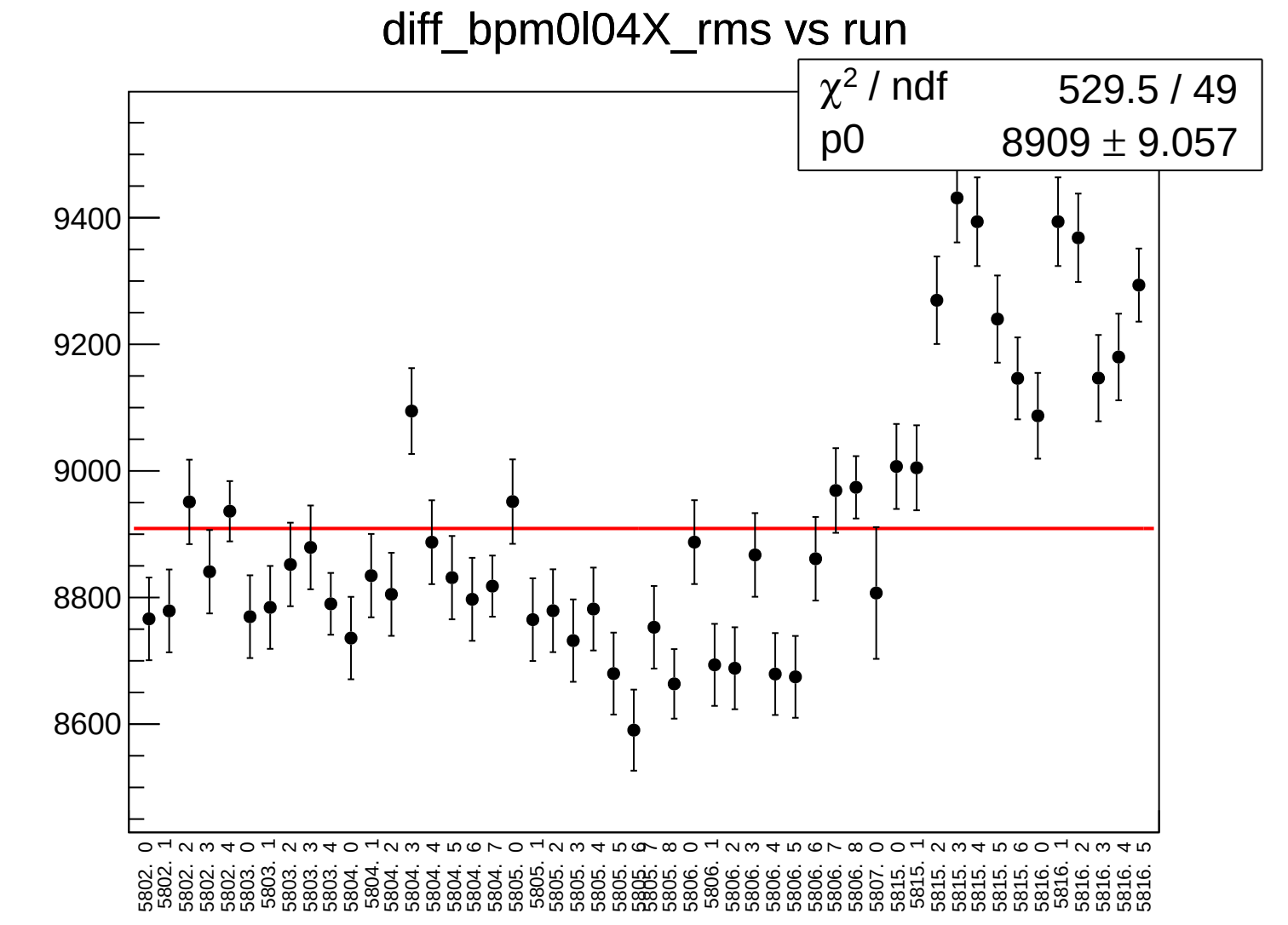
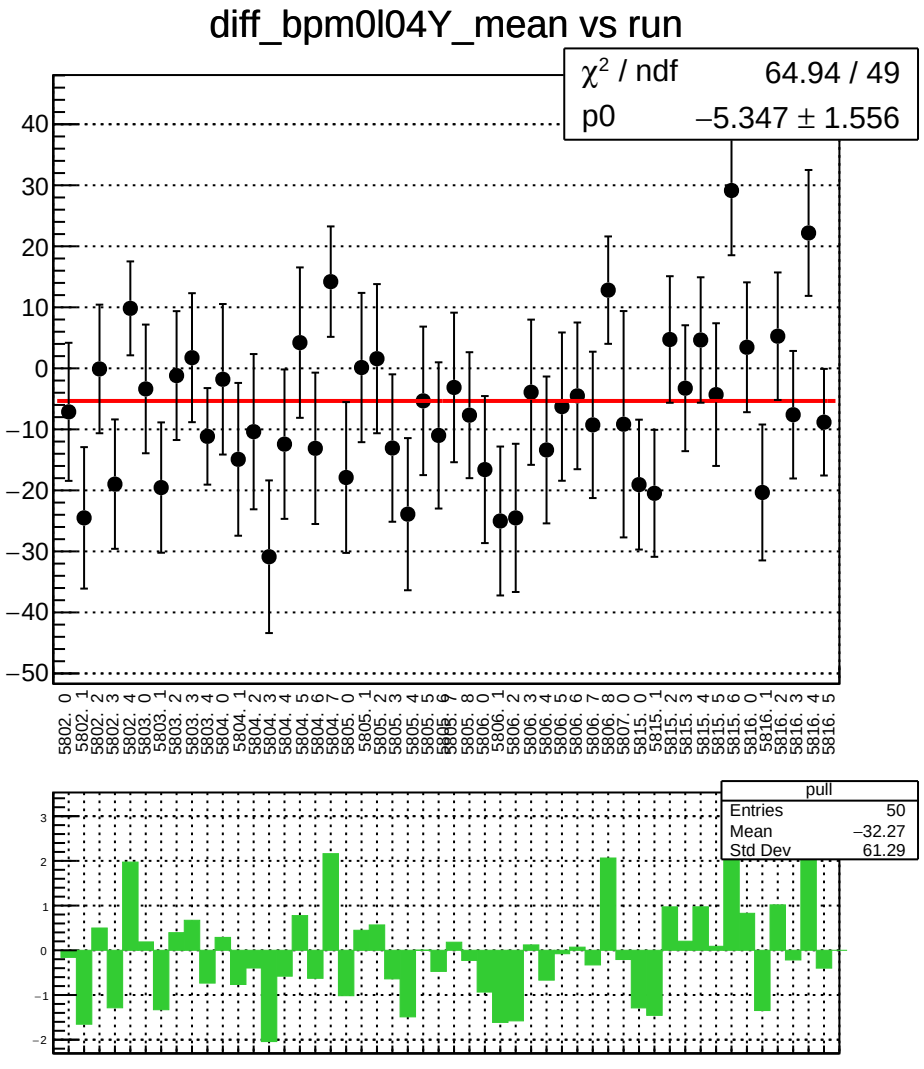
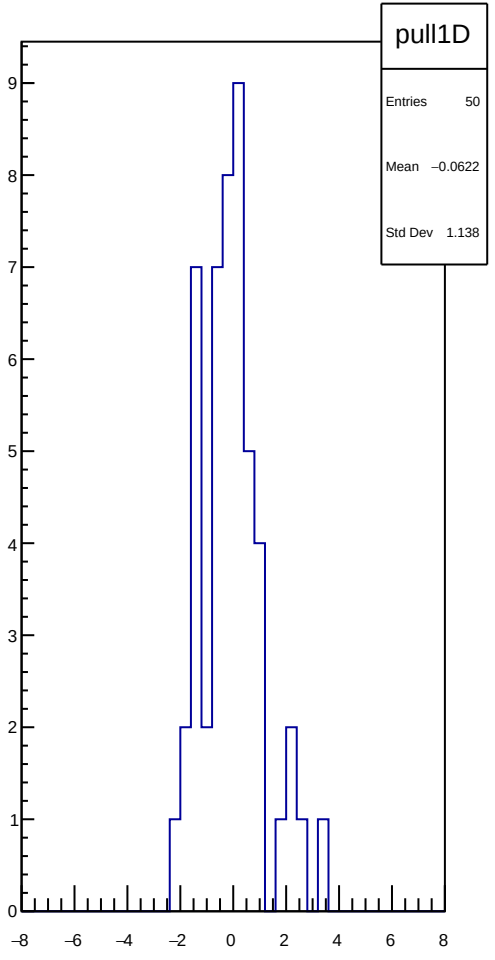
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

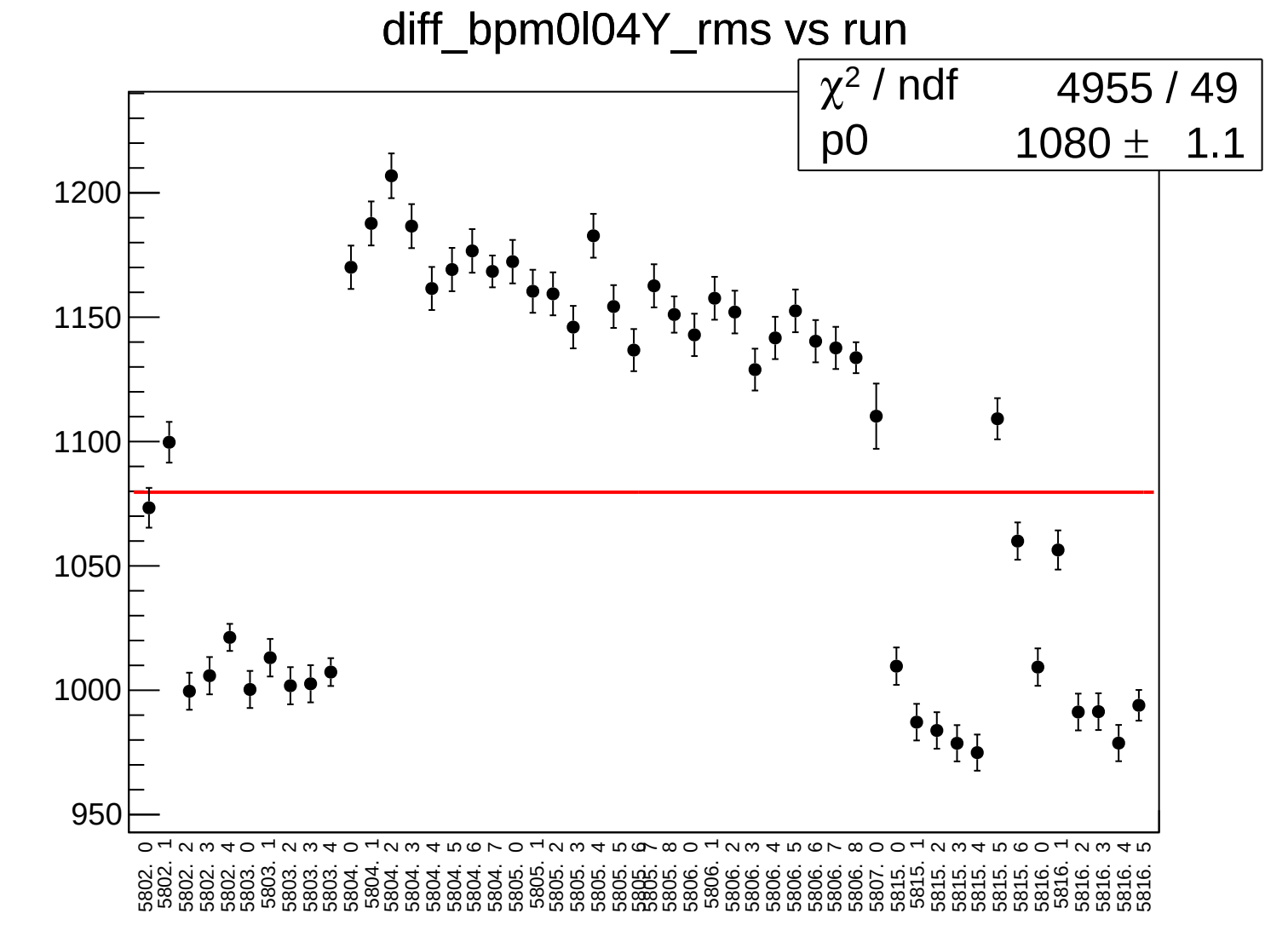

diff_bpm0l04X_mean vs run
χ² / ndf 53.49 / 49
p0 −88.17 ± 12.81
pull
Entries 50
Mean 346.7
Std Dev 315.7


pull1D
Entries 50
Mean −0.006048
Std Dev 1.034


diff_bpm0l04X_rms vs run
χ² / ndf 529.5 / 49
p0 8909 ± 9.057
9400
9200
9000
8800
8600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0l04Y_mean vs run
χ² / ndf 64.94 / 49
p0 −5.347 ± 1.556
pull
Entries 50
Mean −32.27
Std Dev 61.29


pull1D
Entries 50
Mean −0.0622
Std Dev 1.138


diff_bpm0l04Y_rms vs run
χ² / ndf 4955 / 49
p0 1080 ± 1.1
1200
1150
1100
1050
1000
950
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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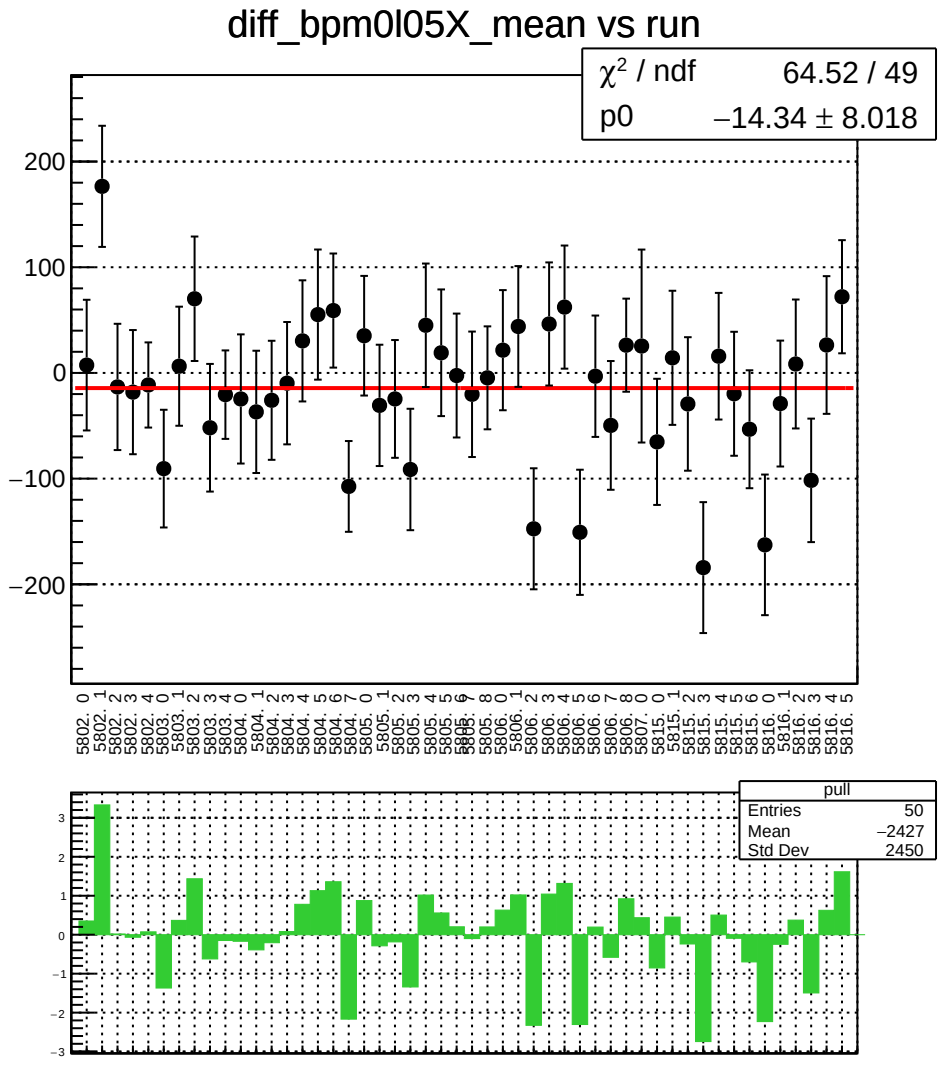
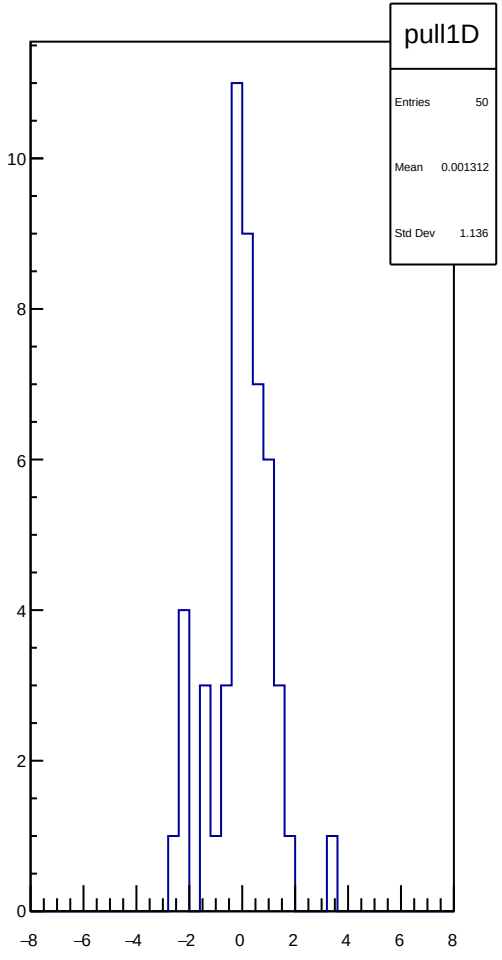
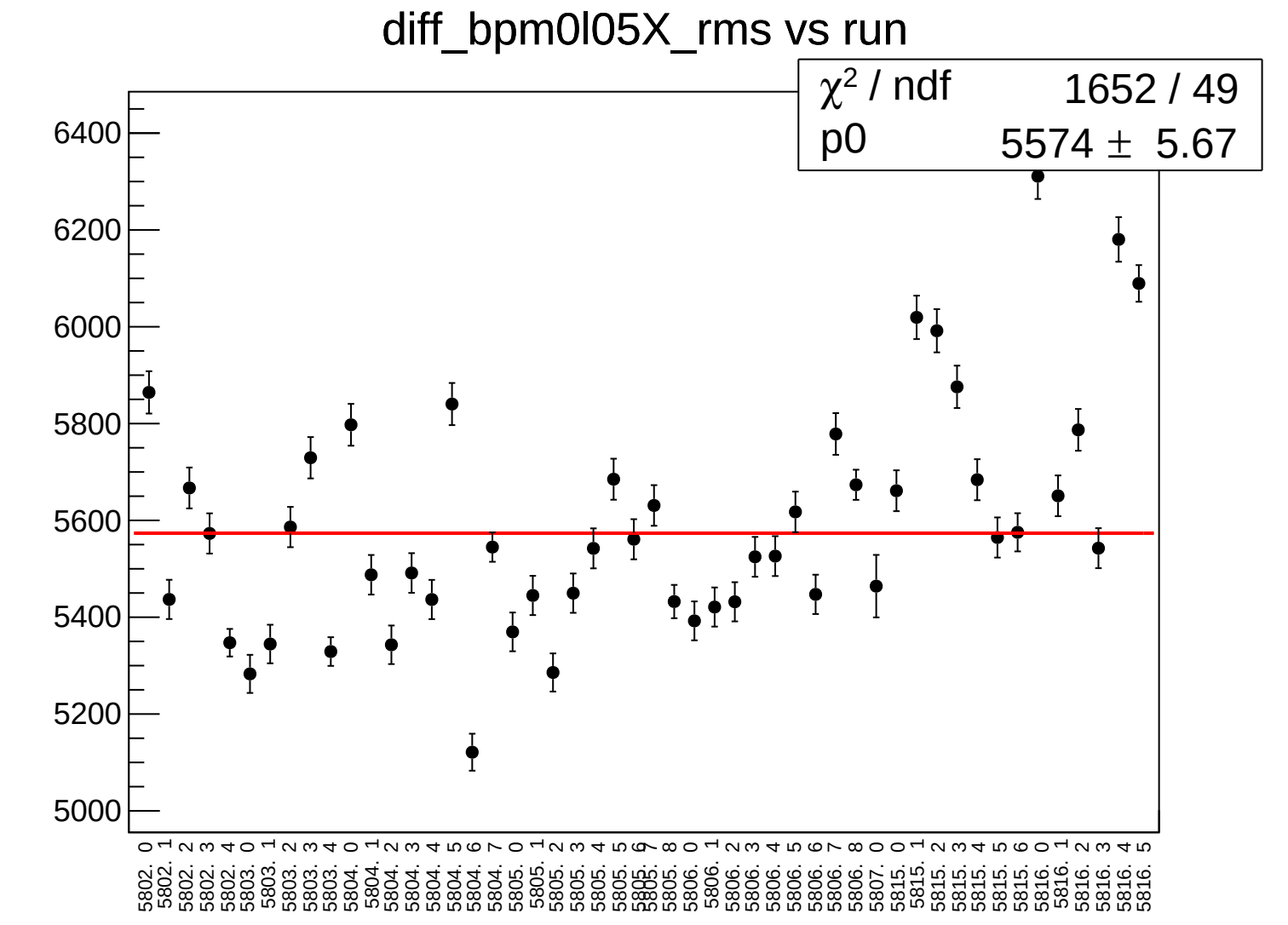
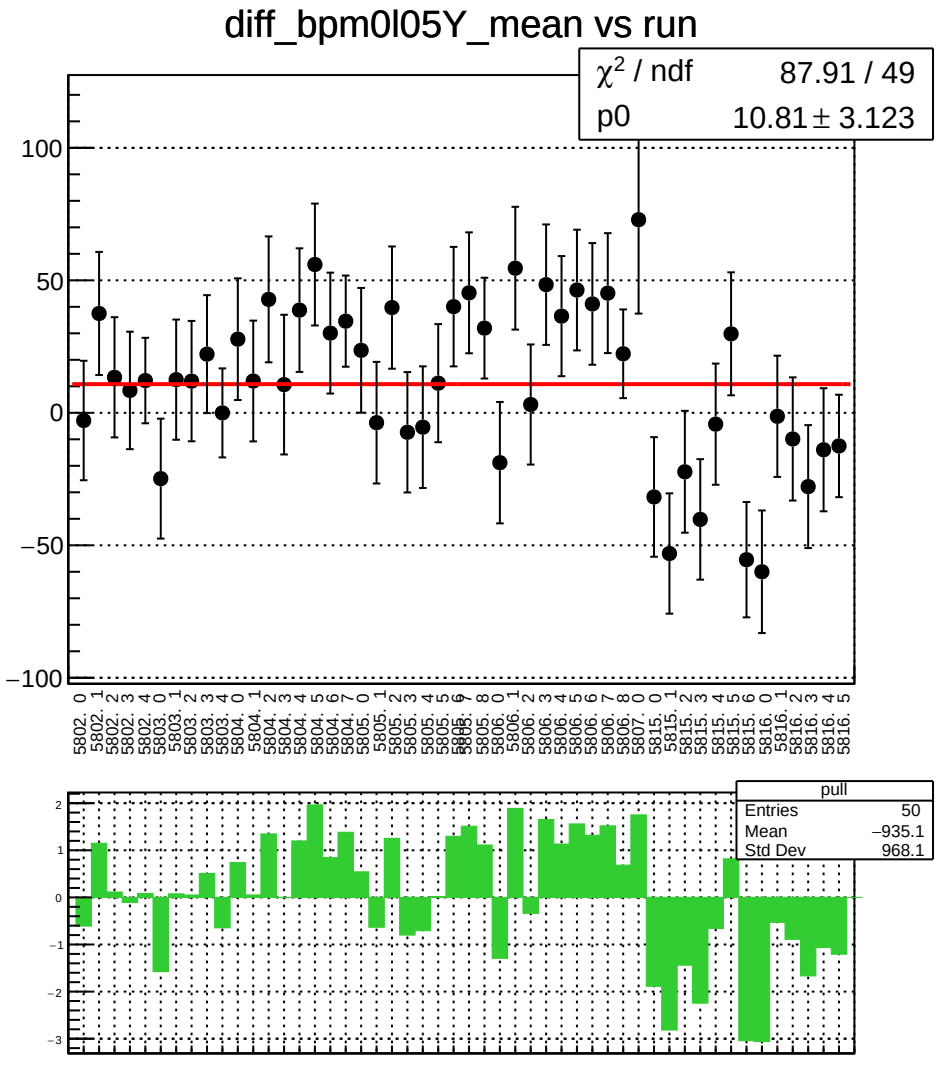
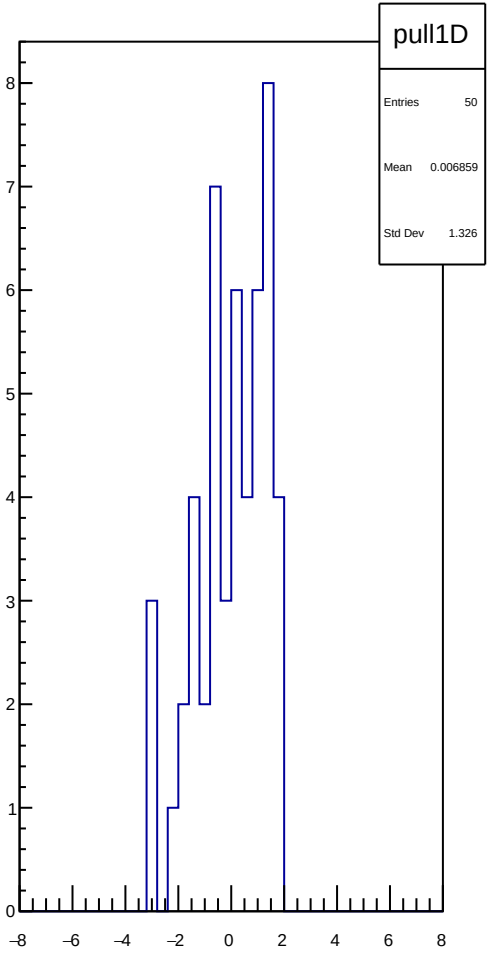
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

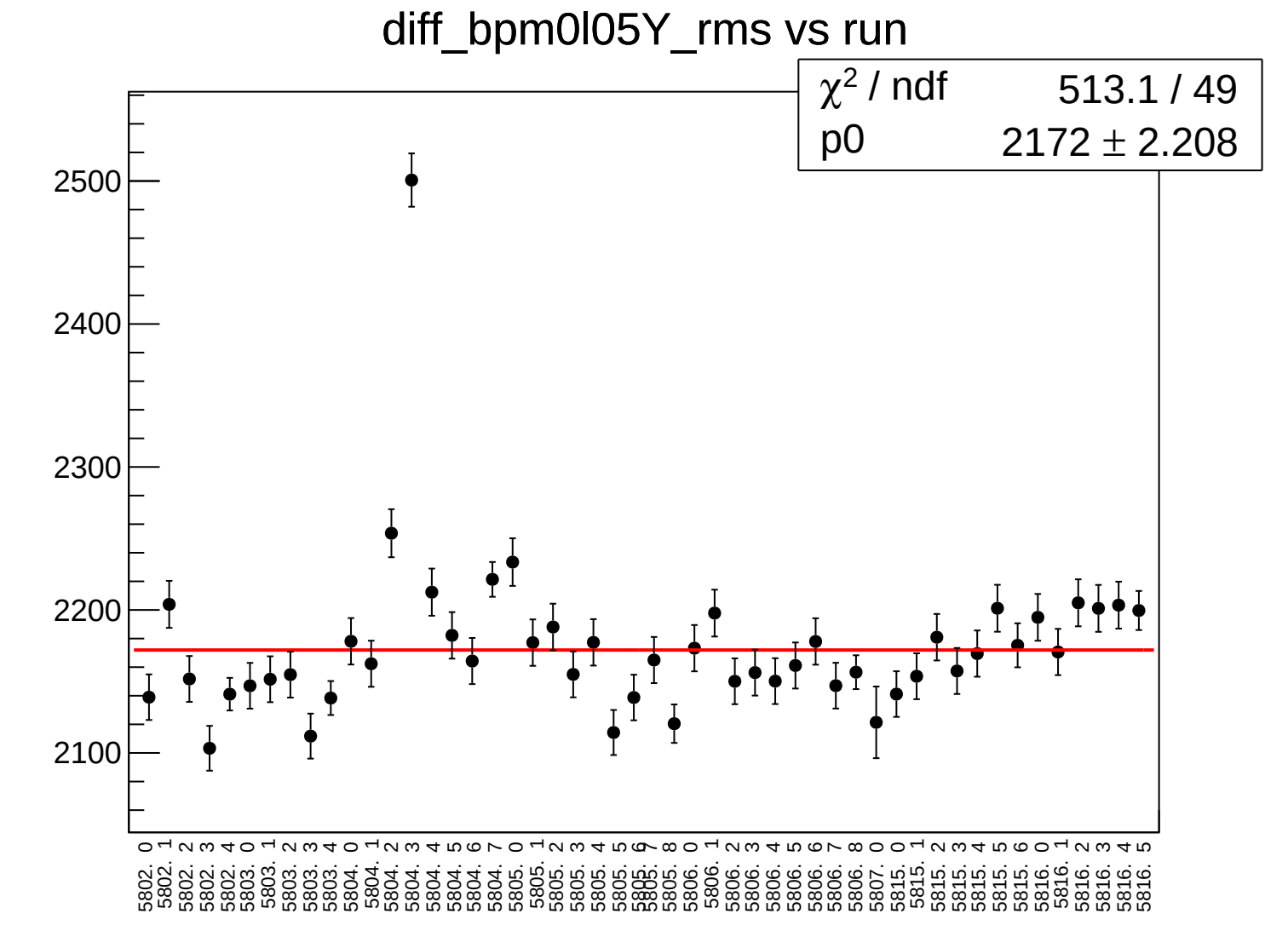

diff_bpm0l05X_mean vs run
χ² / ndf 64.52 / 49
p0 −14.34 ± 8.018
200
100
0
−100
−200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −2427
Std Dev 2450
3
2
1
0
−1
−2
−3

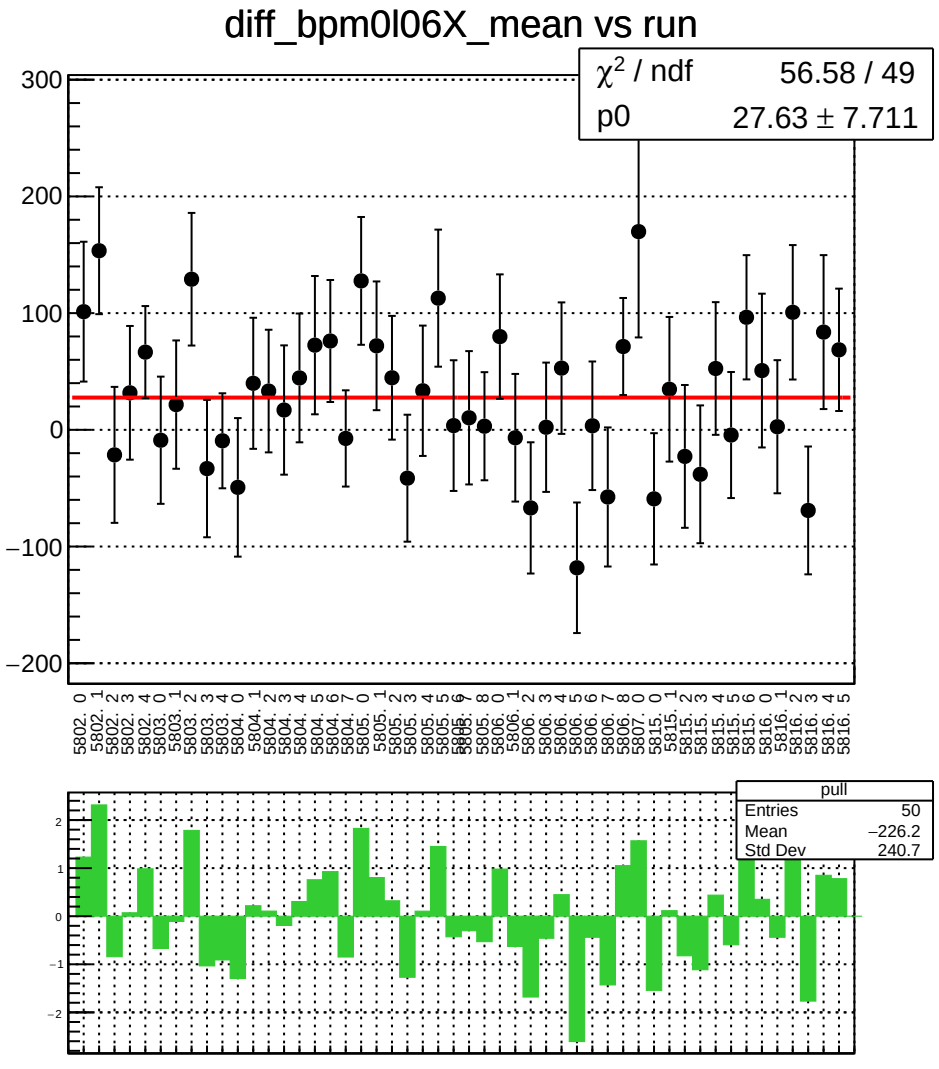

pull1D
Entries 50
Mean 0.001312
Std Dev 1.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

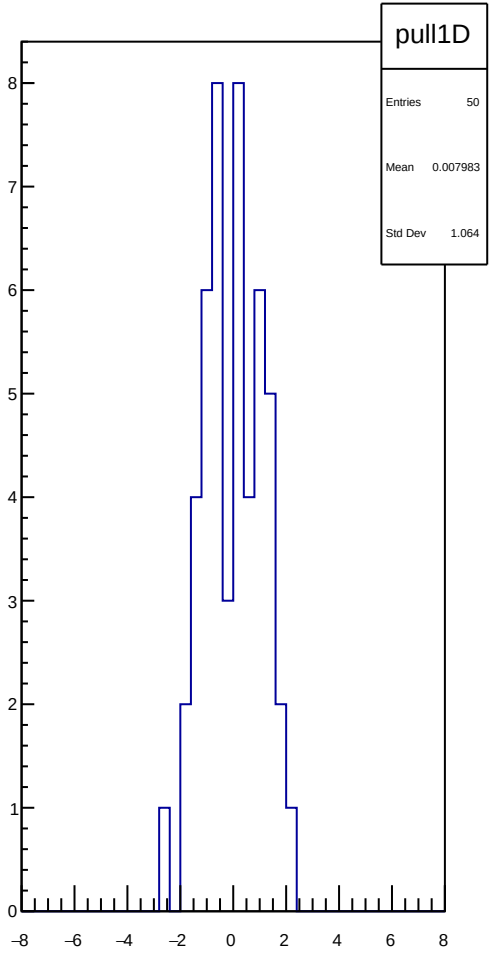

diff_bpm0l05X_rms vs run
χ² / ndf 1652 / 49
p0 5574 ± 5.67
6400
6200
6000
5800
5600
5400
5200
5000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

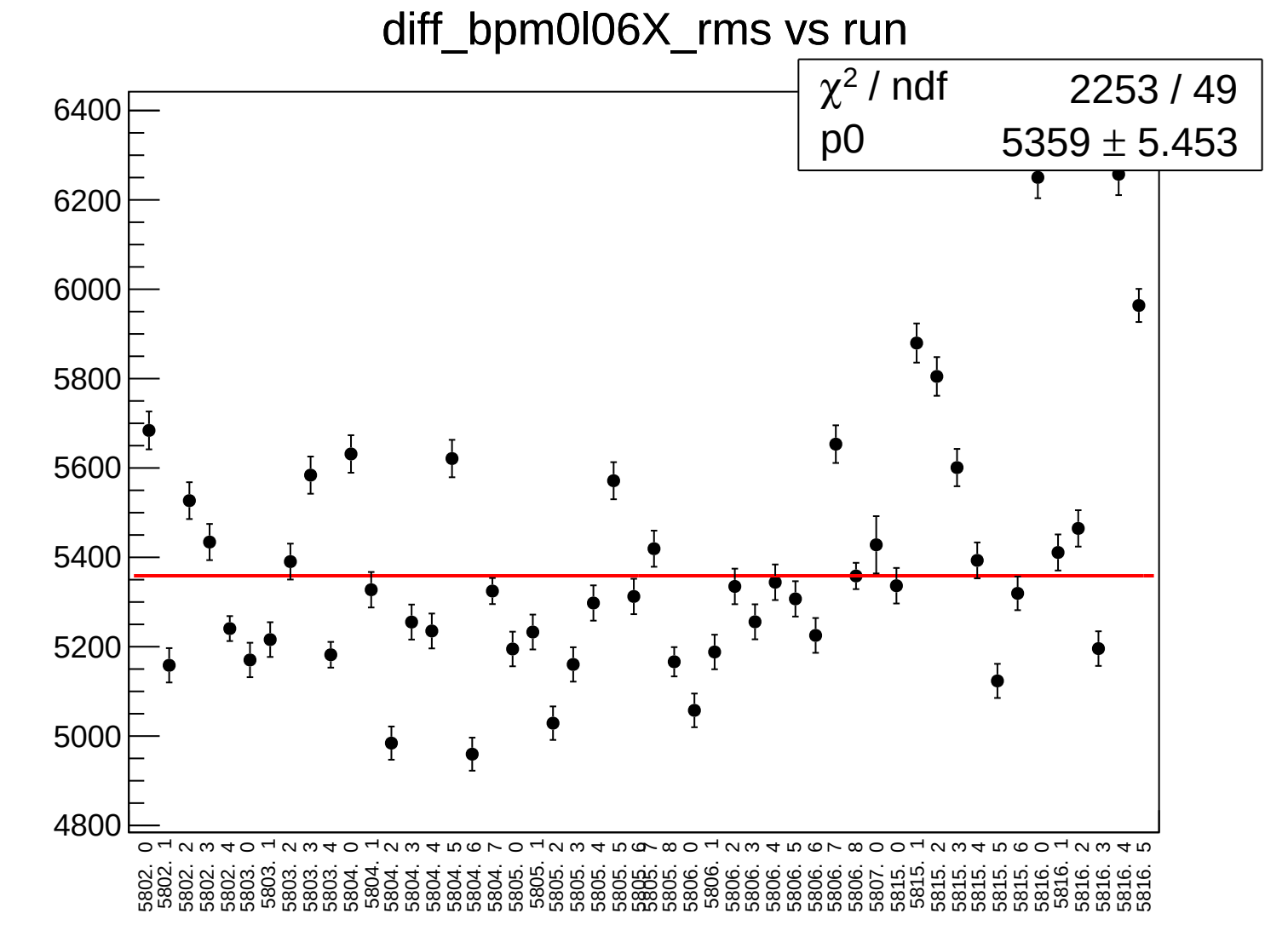

diff_bpm0l05Y_mean vs run
χ² / ndf 87.91 / 49
p0 10.81 ± 3.123
100
50
0
−50
−100
pull
Entries 50
Mean −935.1
Std Dev 968.1
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.006859
Std Dev 1.326
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l05Y_rms vs run
χ² / ndf 513.1 / 49
p0 2172 ± 2.208
2500
2400
2300
2200
2100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0l06X_mean vs run
χ^2 / ndf 56.58 / 49
p0 27.63 ± 7.711
pull
Entries 50
Mean −226.2
Std Dev 240.7


pull1D
Entries 50
Mean 0.007983
Std Dev 1.064


diff_bpm0l06X_rms vs run
χ² / ndf 2253 / 49
p0 5359 ± 5.453
6400
6200
6000
5800
5600
5400
5200
5000
4800
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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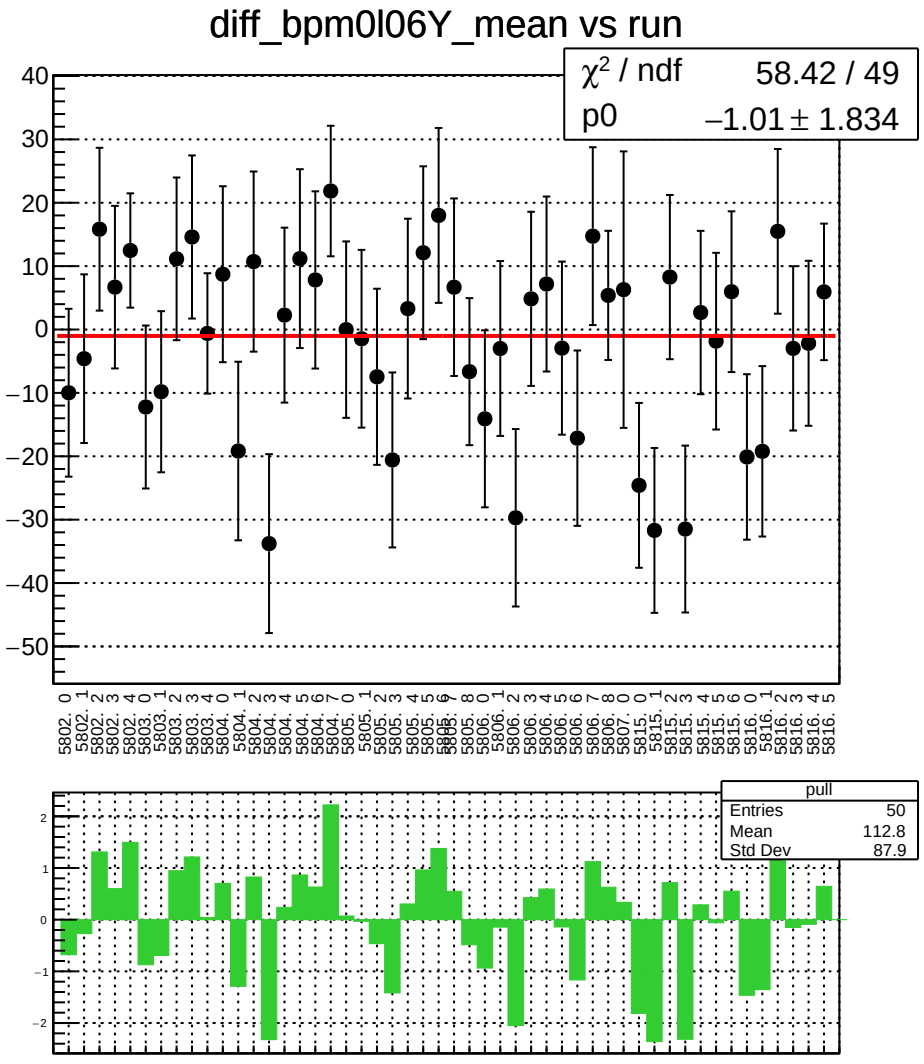
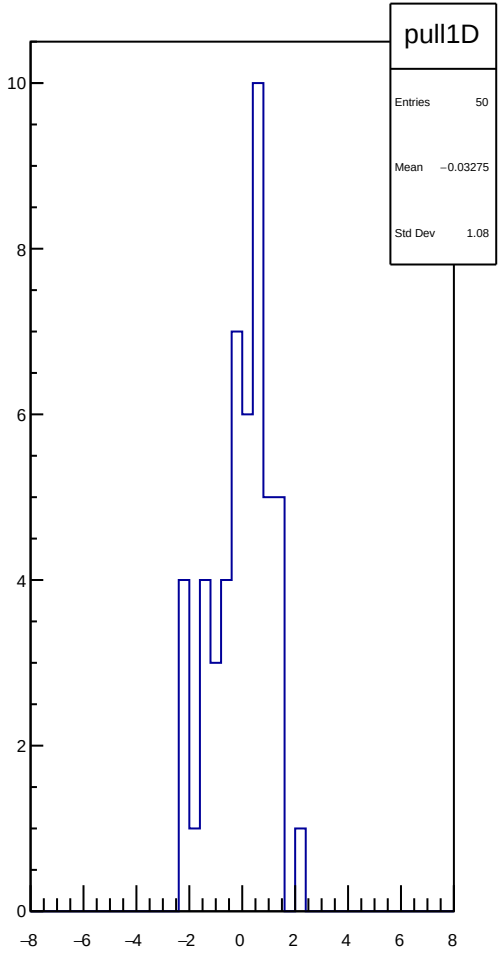
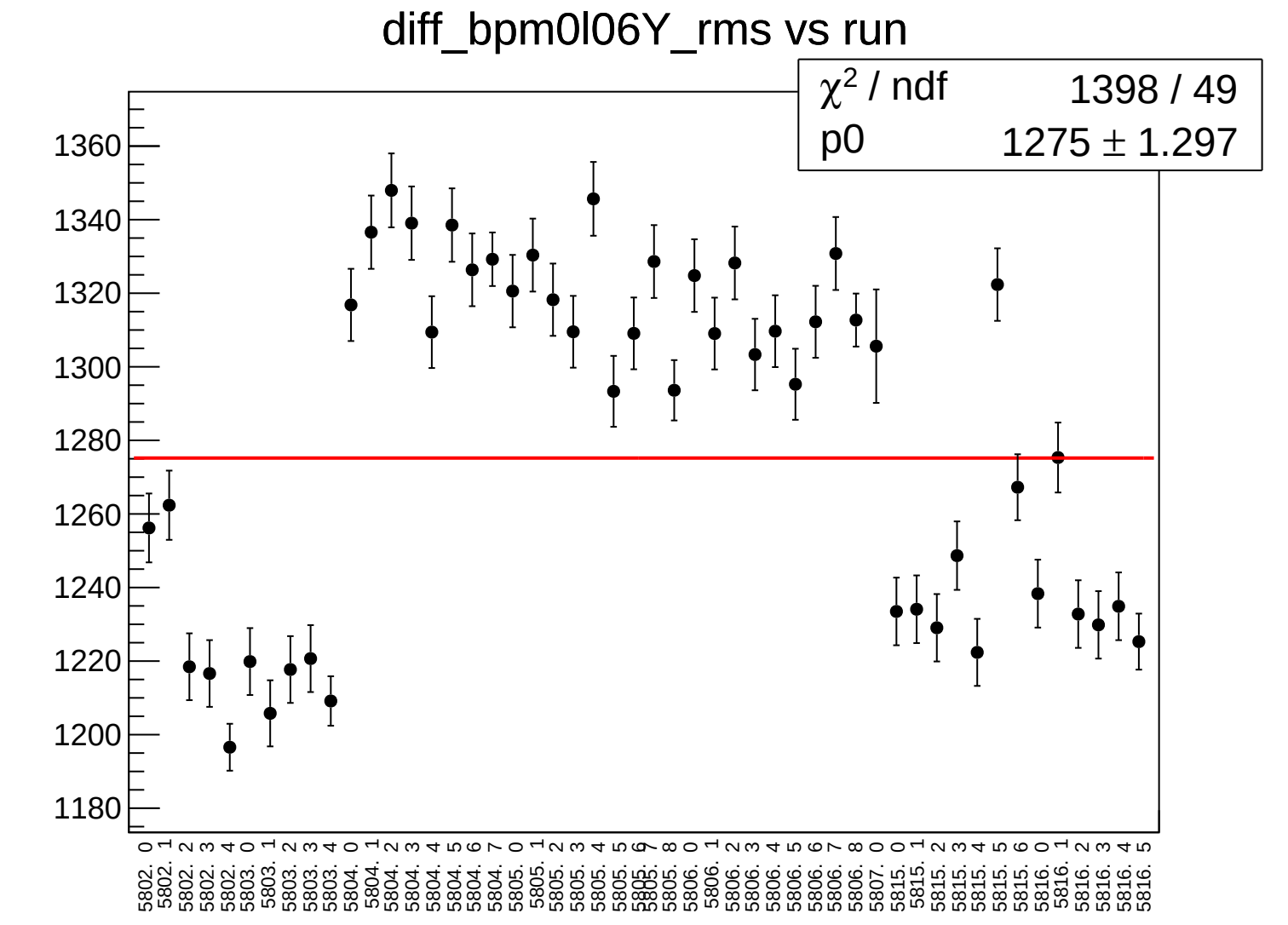
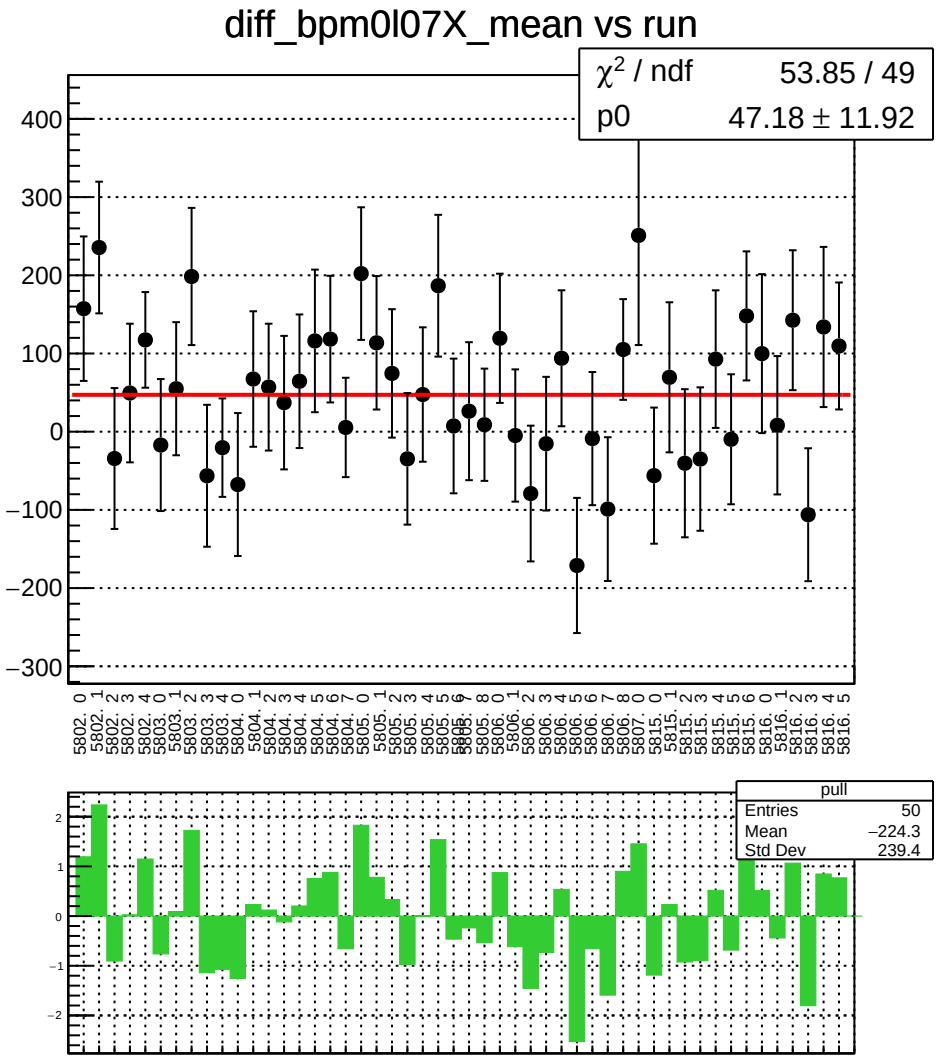
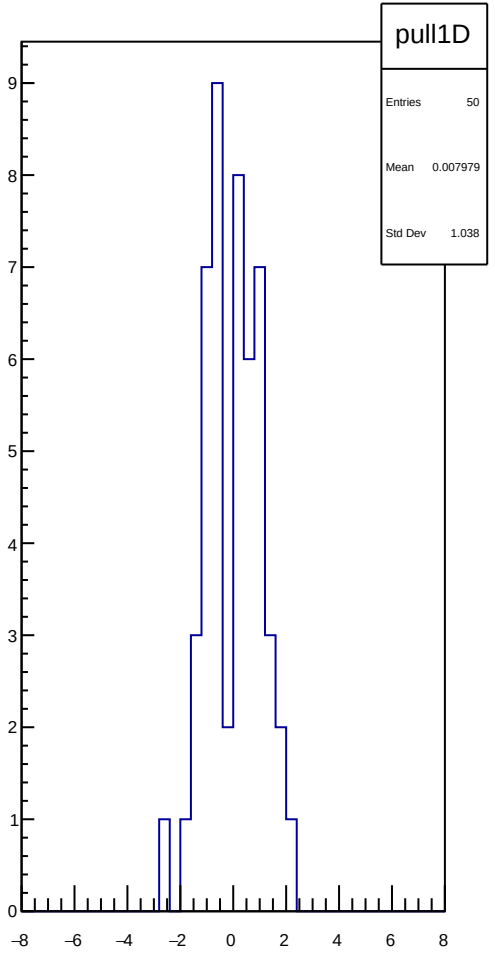
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

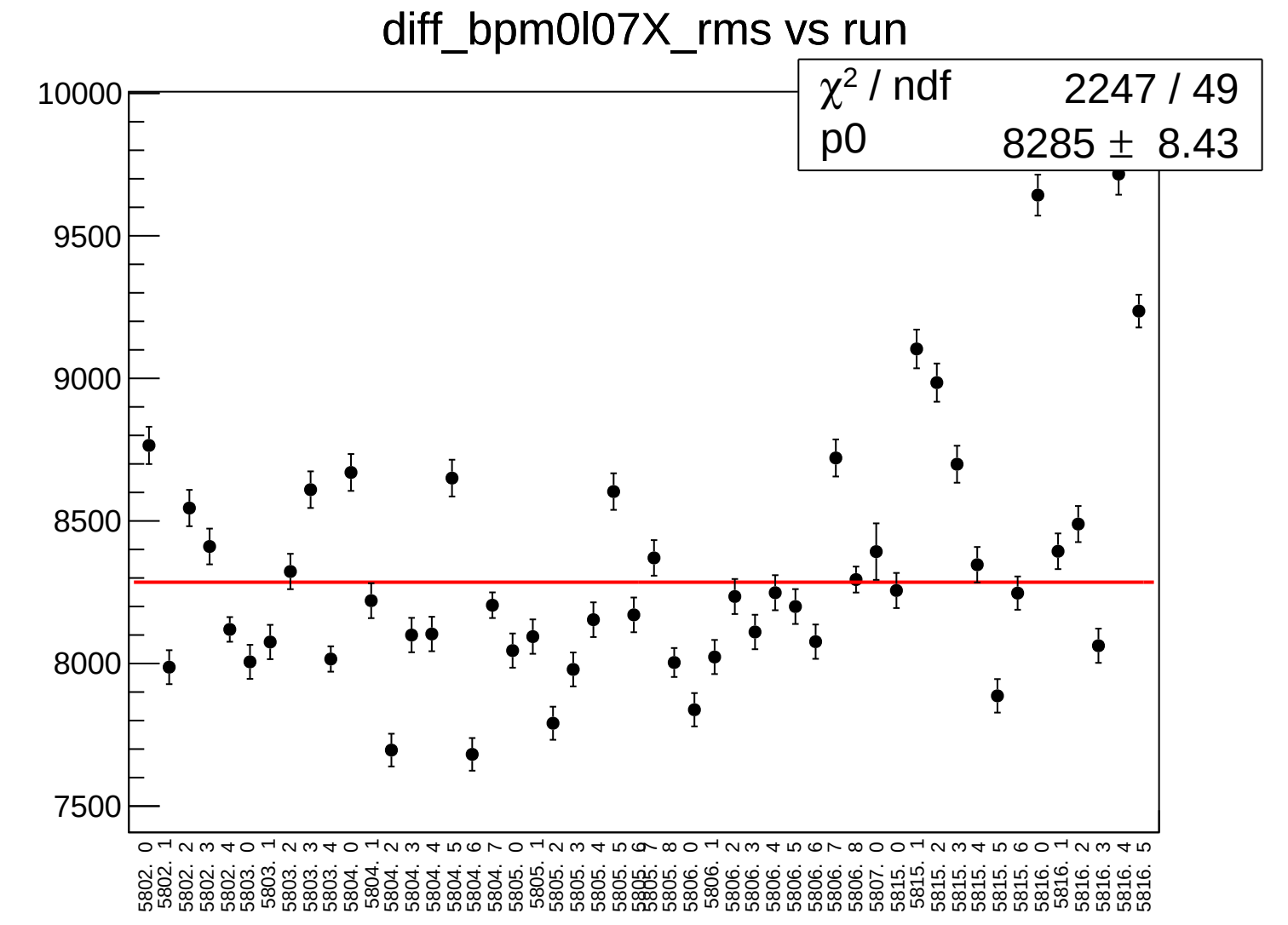

diff_bpm0l06Y_mean vs run
χ² / ndf 58.42 / 49
p0 −1.01 ± 1.834
pull
Entries 50
Mean 112.8
Std Dev 87.9


pull1D
Entries 50
Mean −0.03275
Std Dev 1.08


diff_bpm0l06Y_rms vs run
χ² / ndf 1398 / 49
p0 1275 ± 1.297
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm0l07X_mean vs run
χ^2 / ndf 53.85 / 49
p0 47.18 ± 11.92
pull
Entries 50
Mean −224.3
Std Dev 239.4


pull1D
Entries 50
Mean 0.007979
Std Dev 1.038


diff_bpm0l07X_rms vs run
χ² / ndf 2247 / 49
p0 8285 ± 8.43
10000
9500
9000
8500
8000
7500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
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5816. 2
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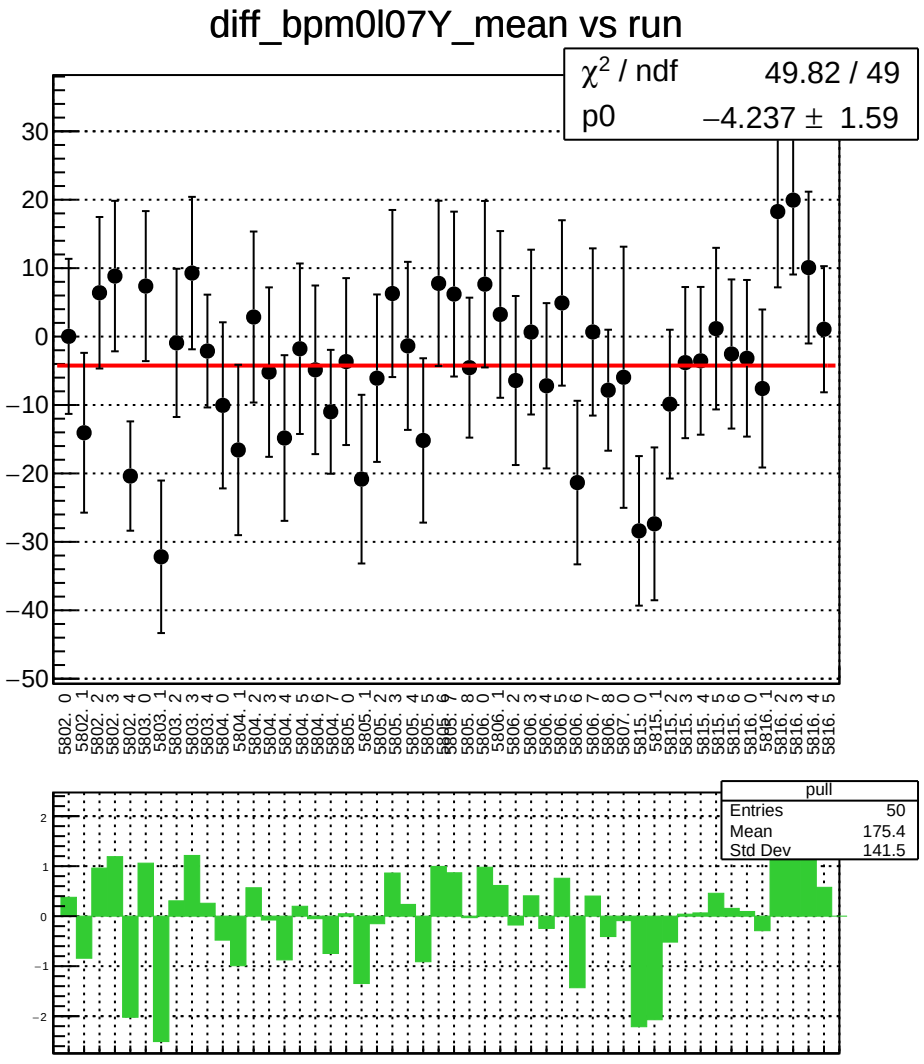
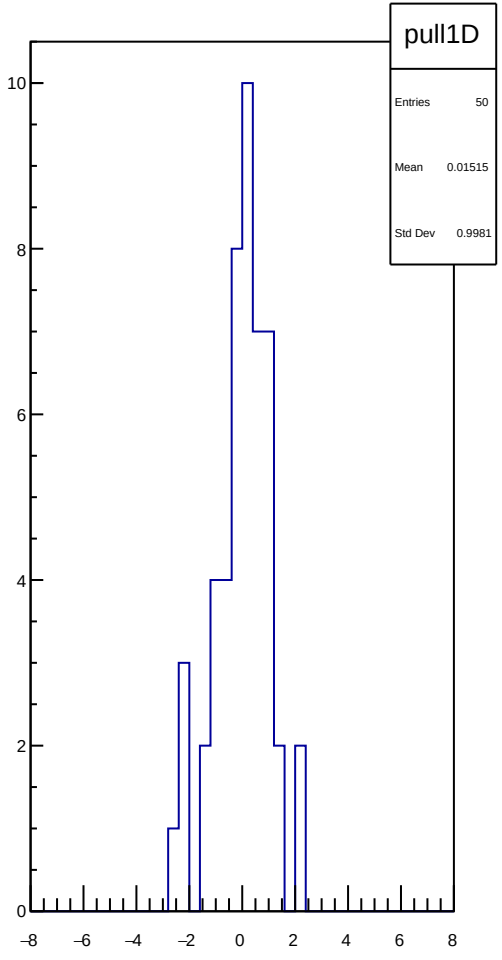
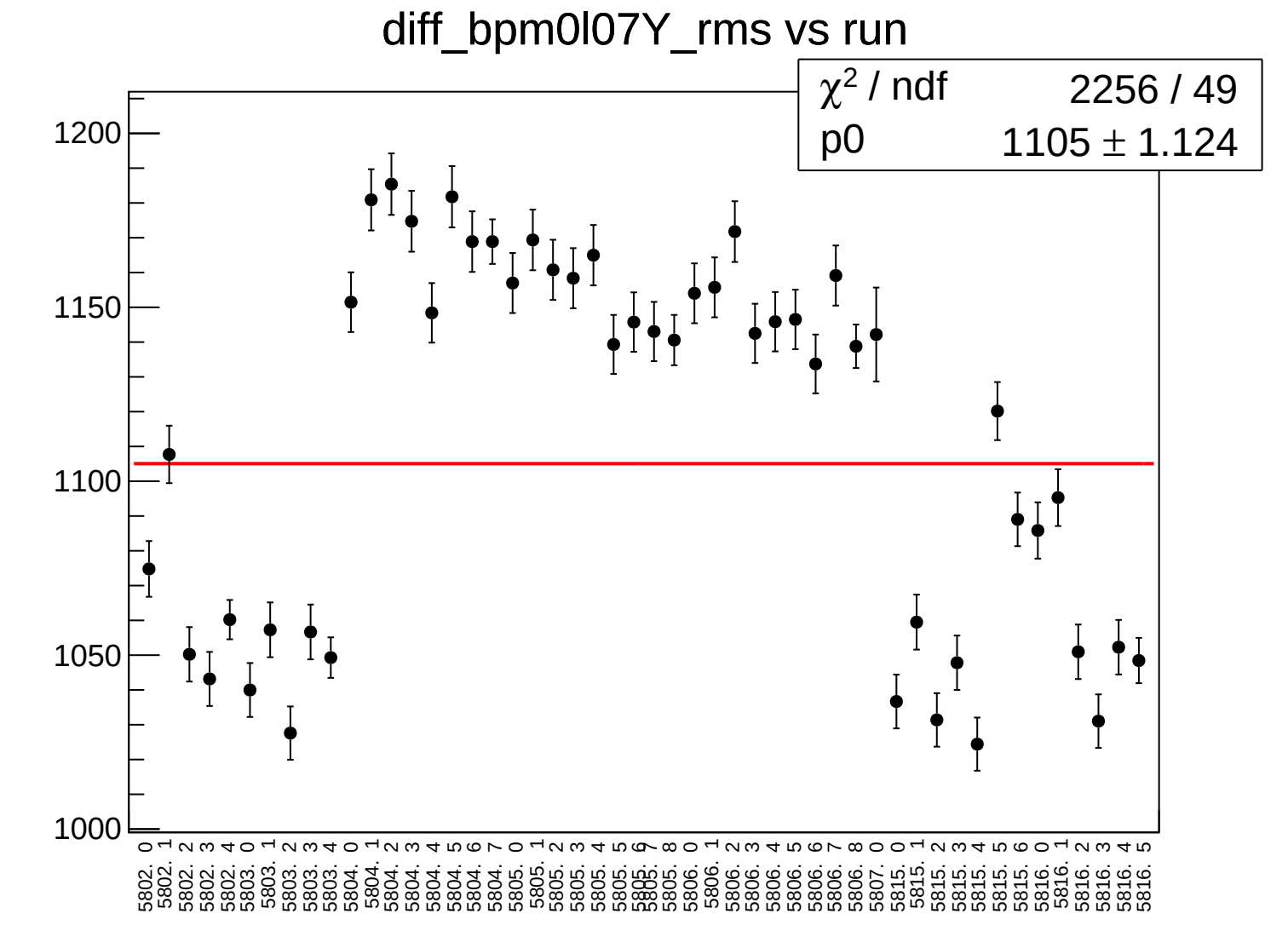
5816. 5


diff_bpm0l07Y_mean vs run
χ² / ndf 49.82 / 49
p0 −4.237 ± 1.59
pull
Entries 50
Mean 175.4
Std Dev 141.5


pull1D
Entries 50
Mean 0.01515
Std Dev 0.9981


diff_bpm0l07Y_rms vs run
χ² / ndf 2256 / 49
p0 1105 ± 1.124
1200
1150
1100
1050
1000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
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5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
5816. 0
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5816. 2
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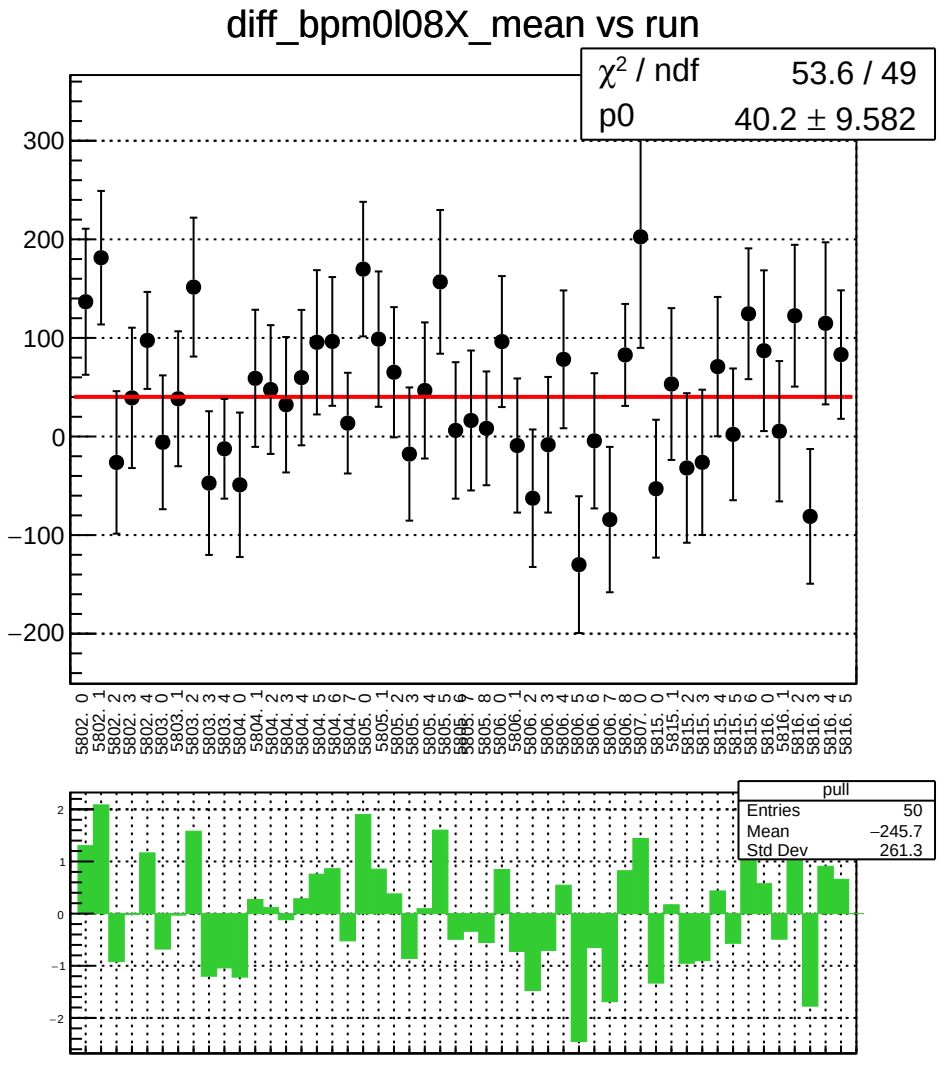
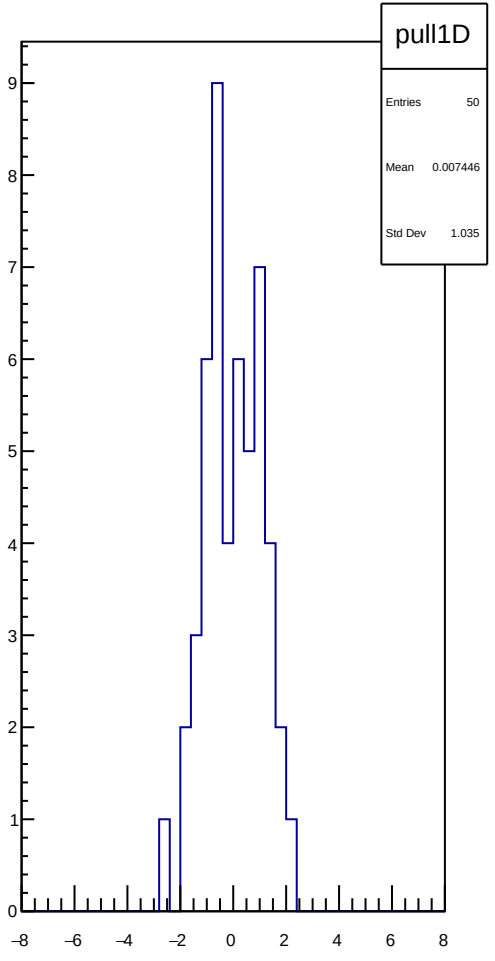
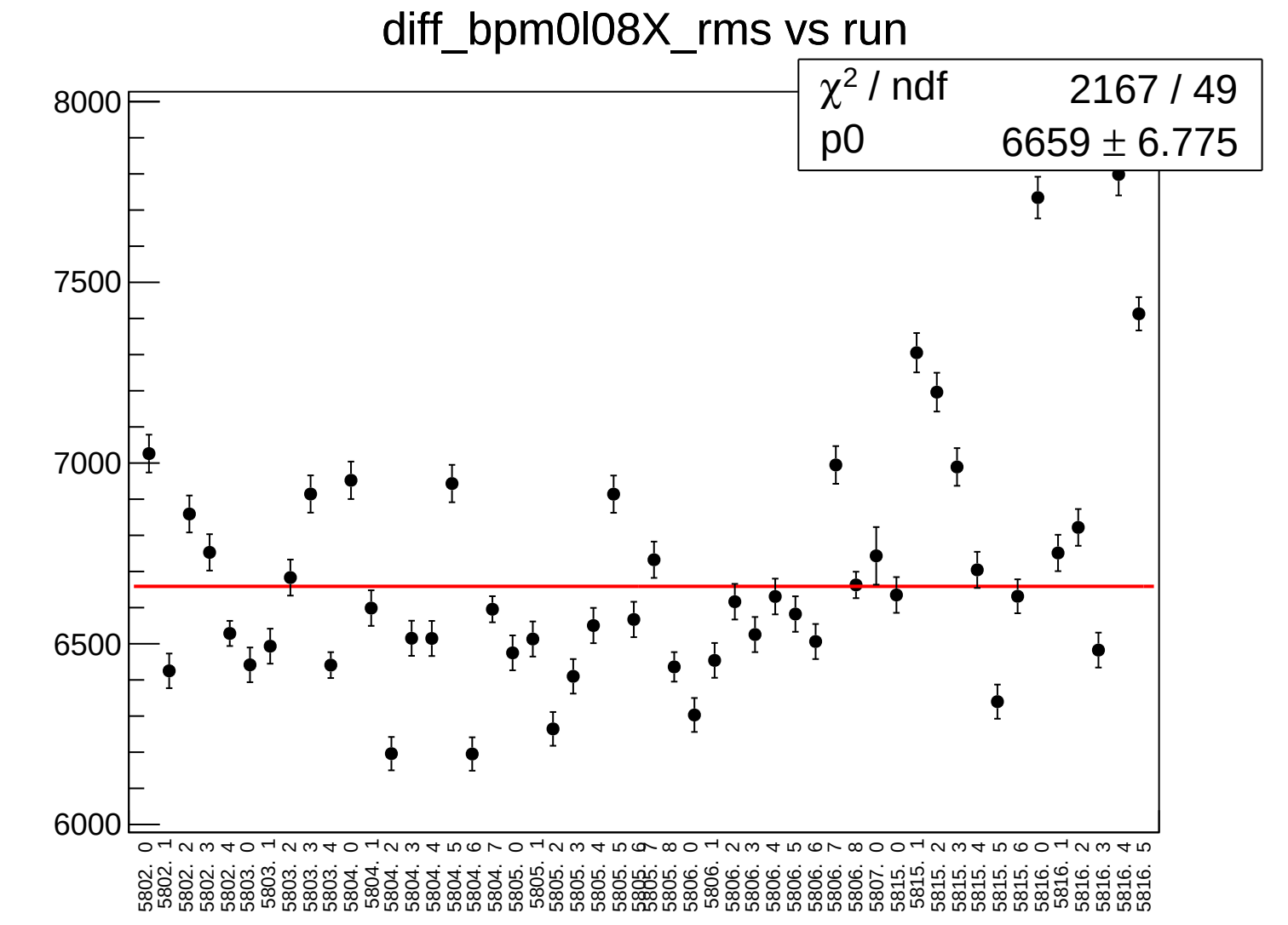
5816. 4
5816. 5


diff_bpm0l08X_mean vs run
χ² / ndf 53.6 / 49
p0 40.2 ± 9.582
300
200
100
0
−100
−200
pull
Entries 50
Mean −245.7
Std Dev 261.3
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.007446
Std Dev 1.035
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 2167 / 49
p0 6659 ± 6.775
8000
7500
7000
6500
6000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
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5804. 2
5804. 3
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5804. 6
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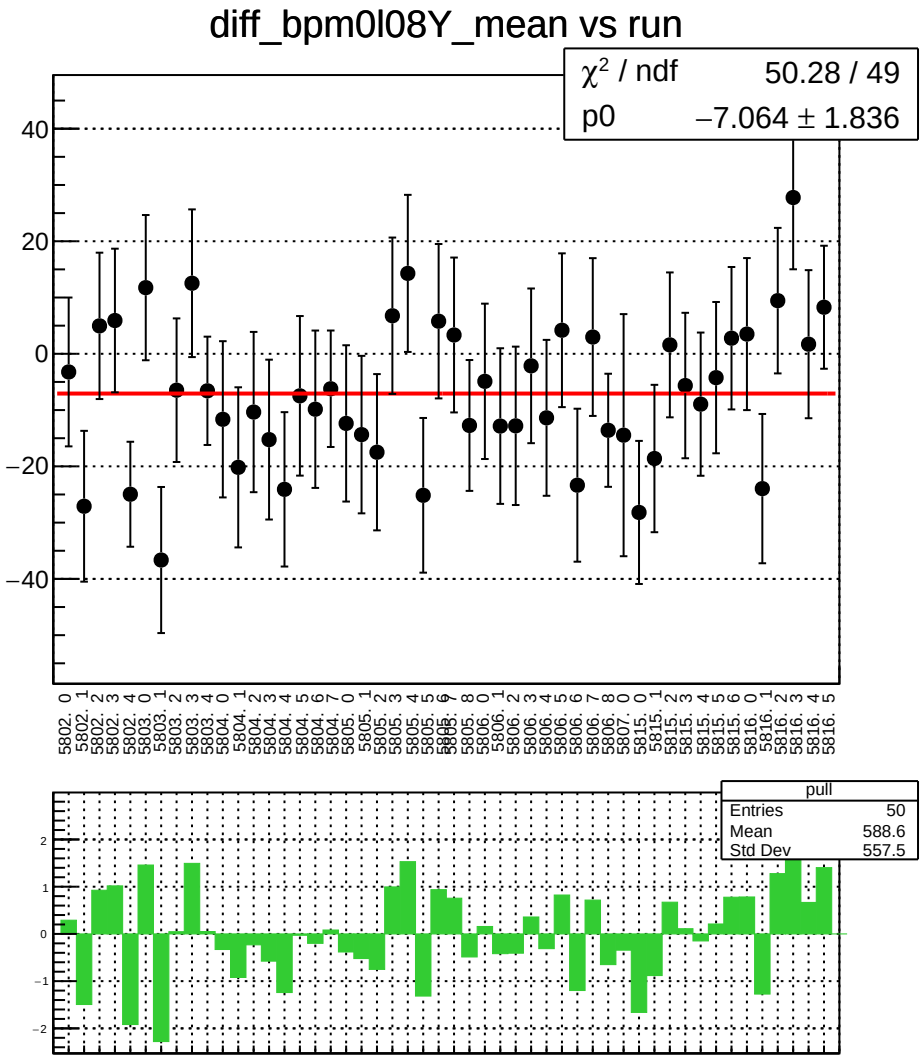
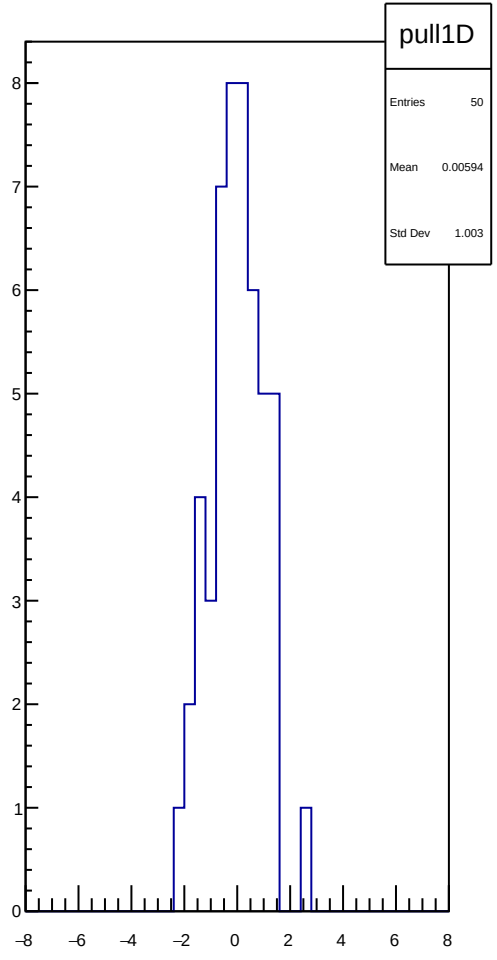
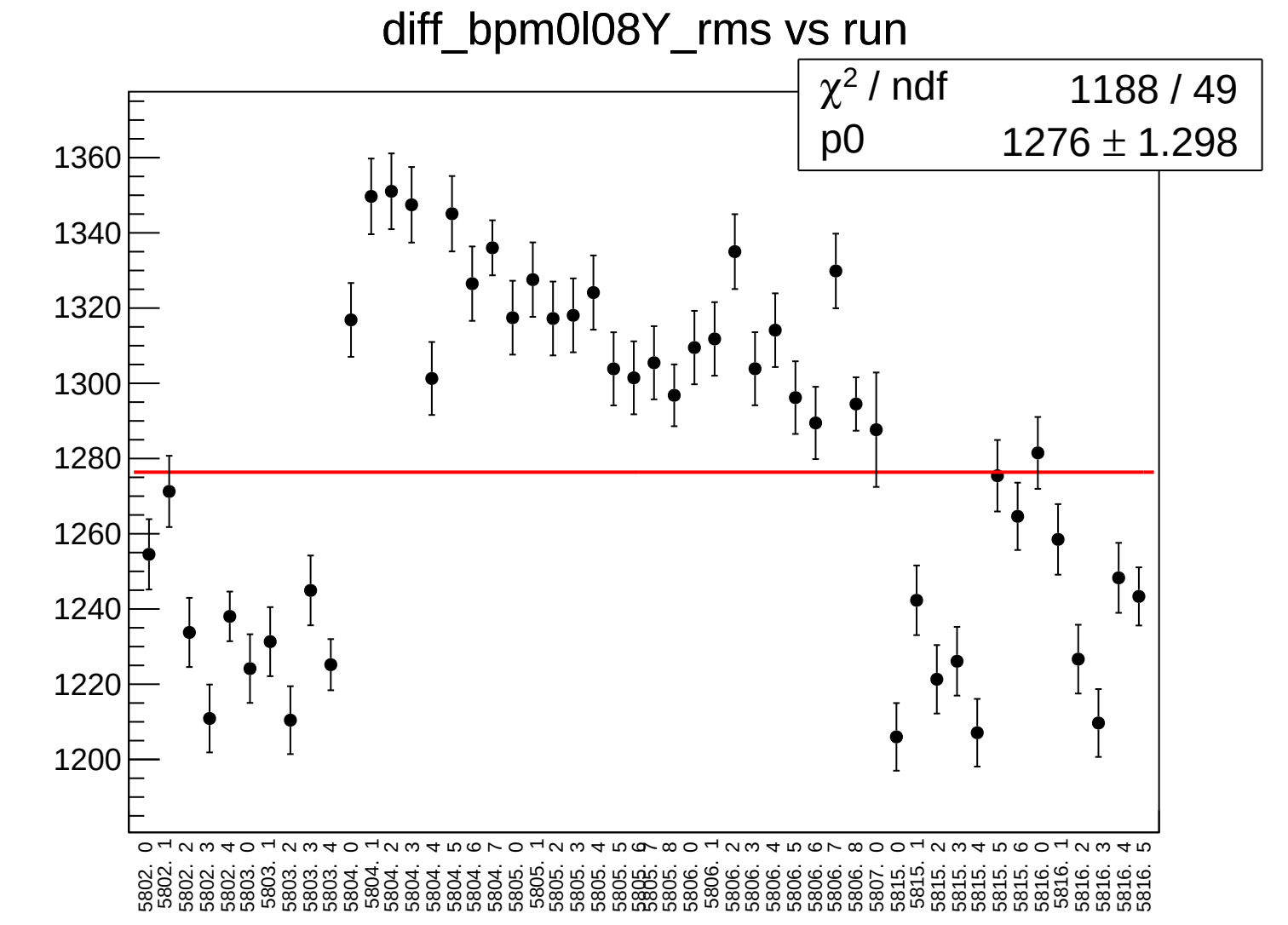
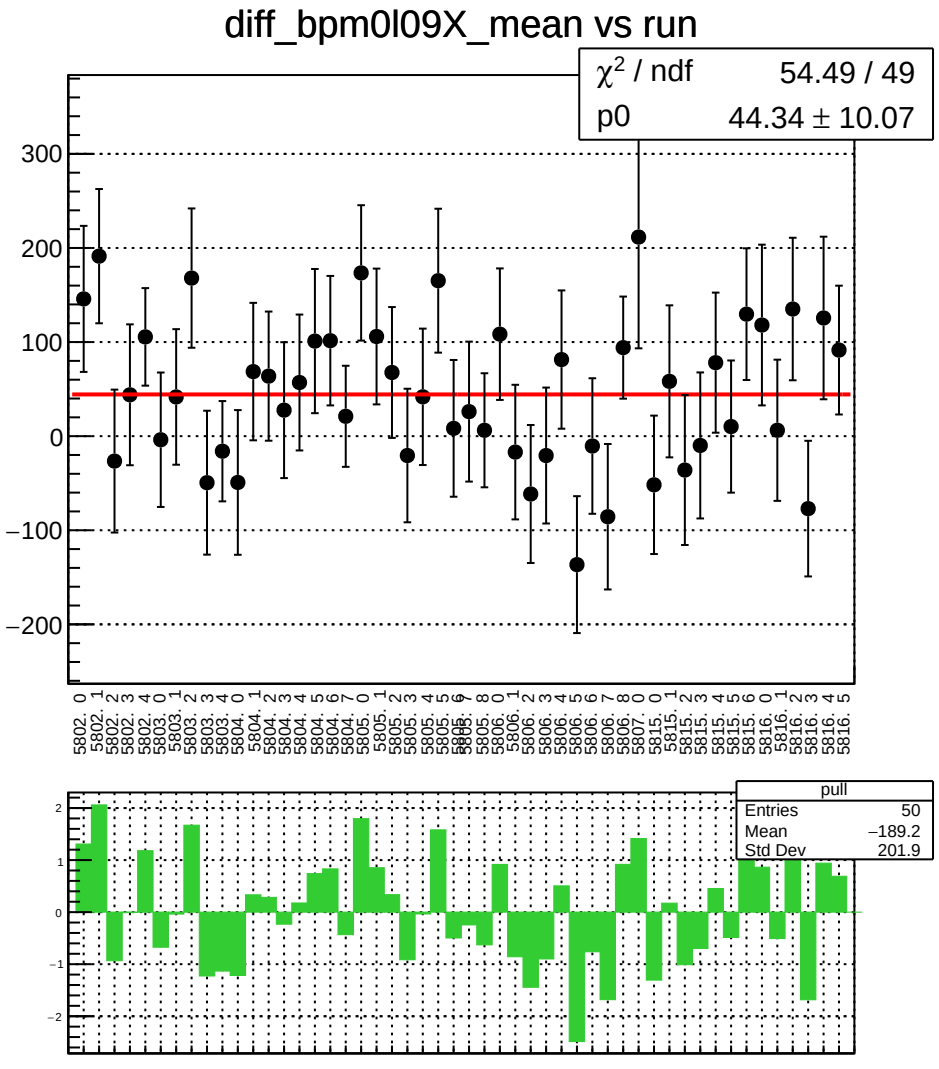
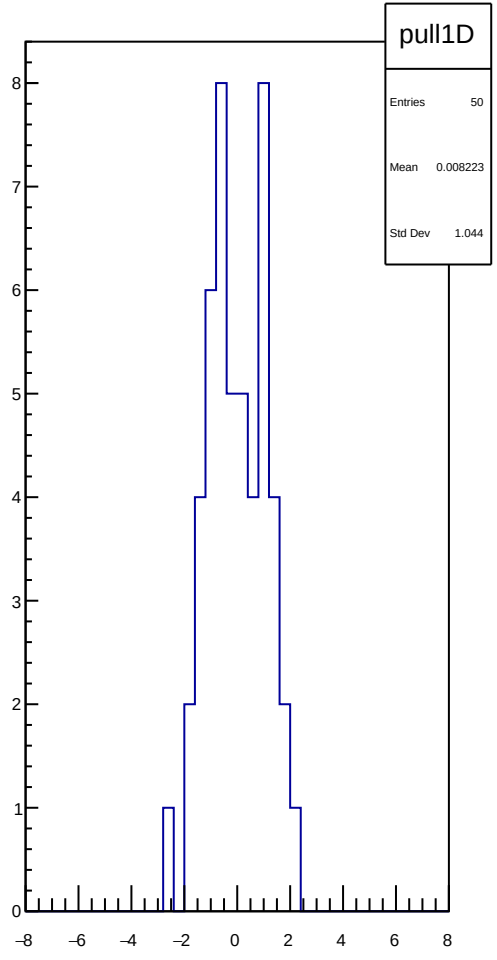
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

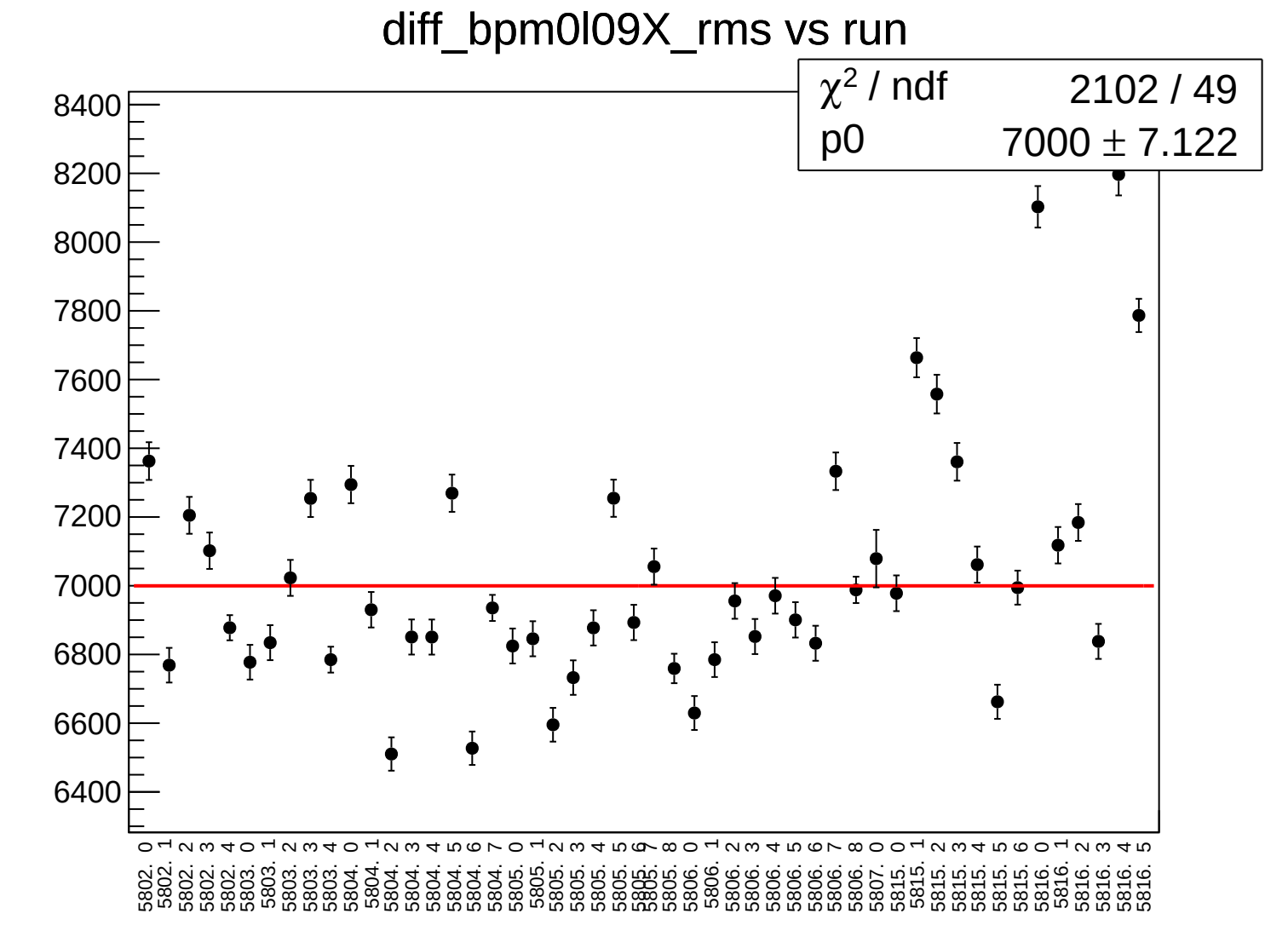

diff_bpm0l08Y_mean vs run
χ² / ndf 50.28 / 49
p0 −7.064 ± 1.836
pull
Entries 50
Mean 588.6
Std Dev 557.5

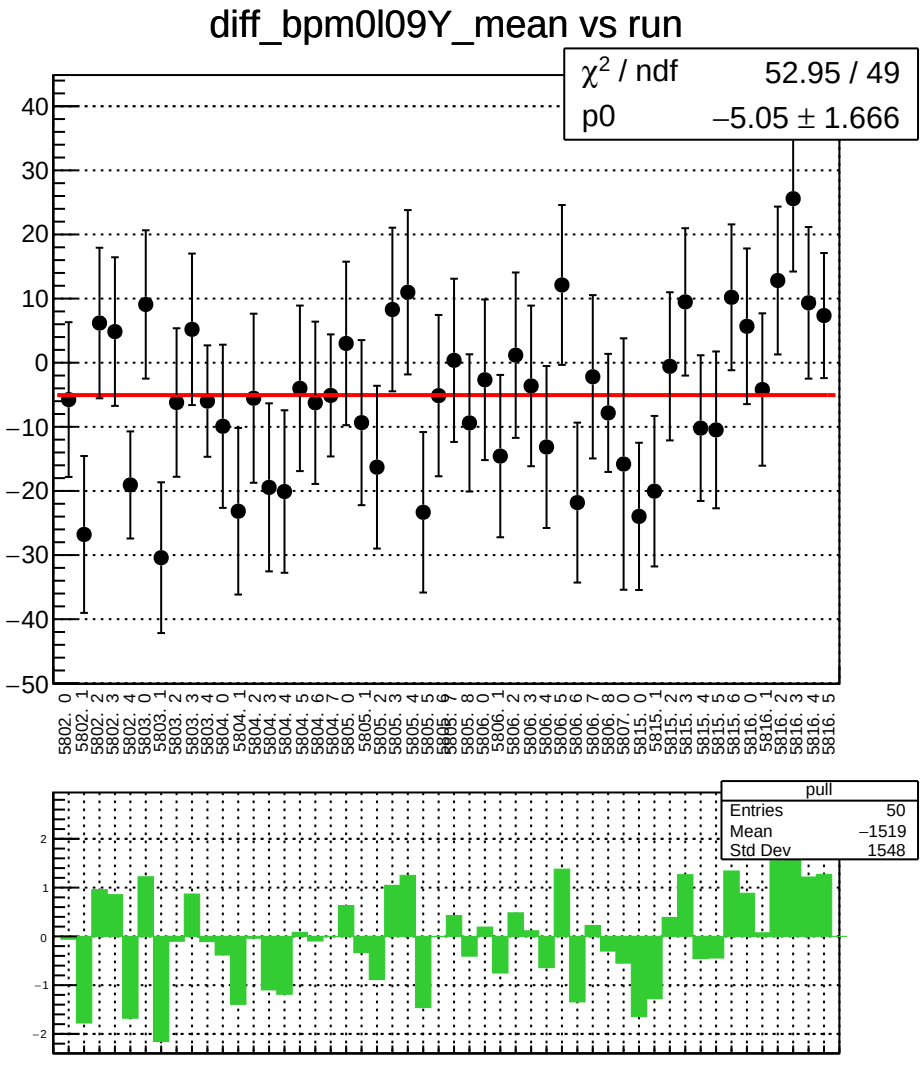

pull1D
Entries 50
Mean 0.00594
Std Dev 1.003

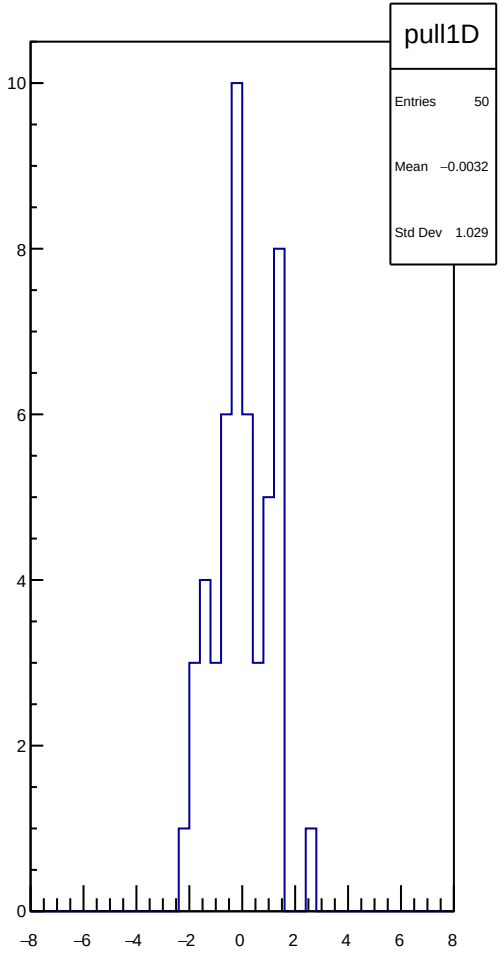

diff_bpm0l08Y_rms vs run
χ² / ndf 1188 / 49
p0 1276 ± 1.298
1360
1340
1320
1300
1280
1260
1240
1220
1200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

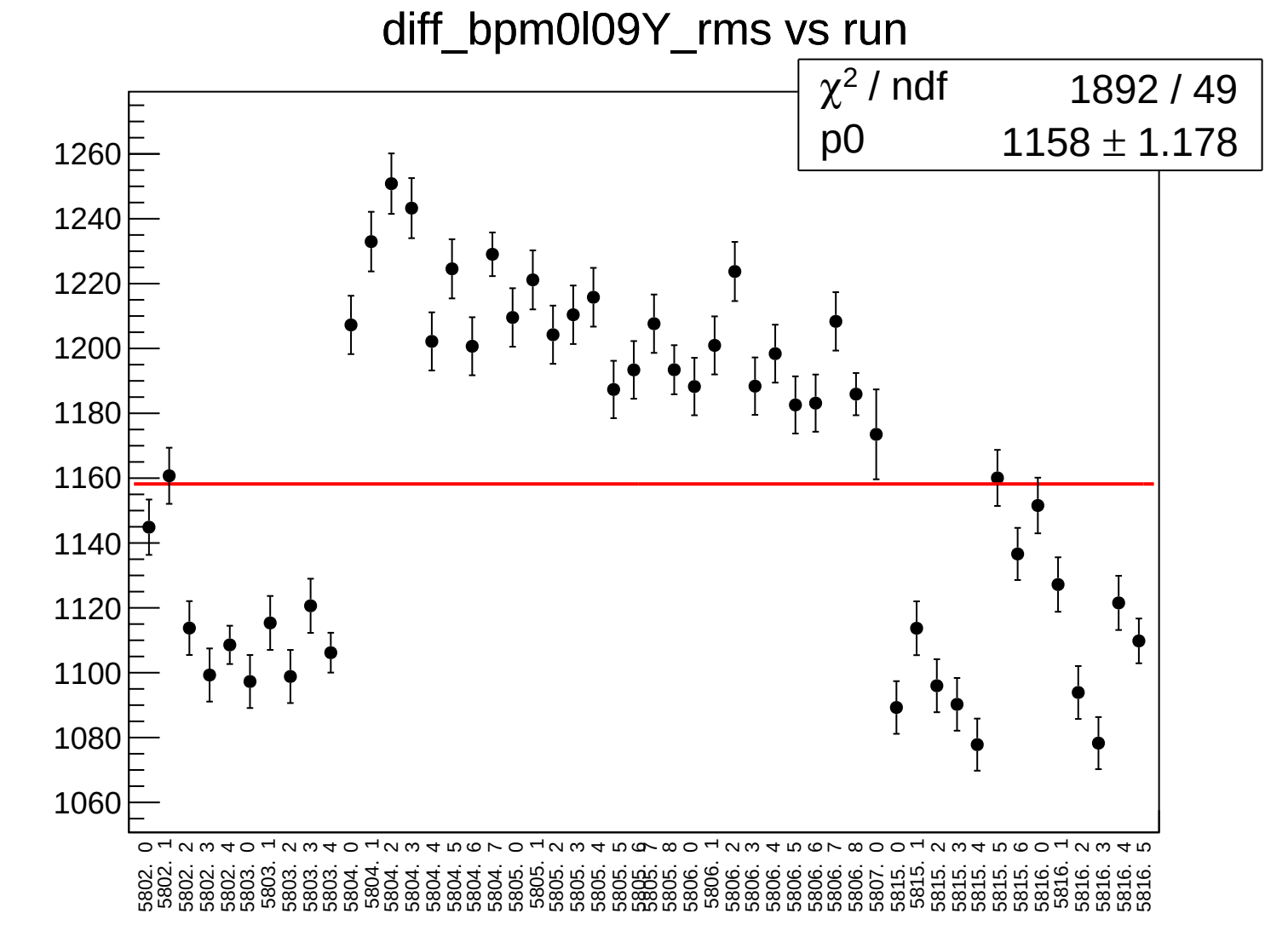

diff_bpm0l09X_mean vs run
χ² / ndf 54.49 / 49
p0 44.34 ± 10.07
300
200
100
0
−100
−200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −189.2
Std Dev 201.9
2
1
0
−1
−2

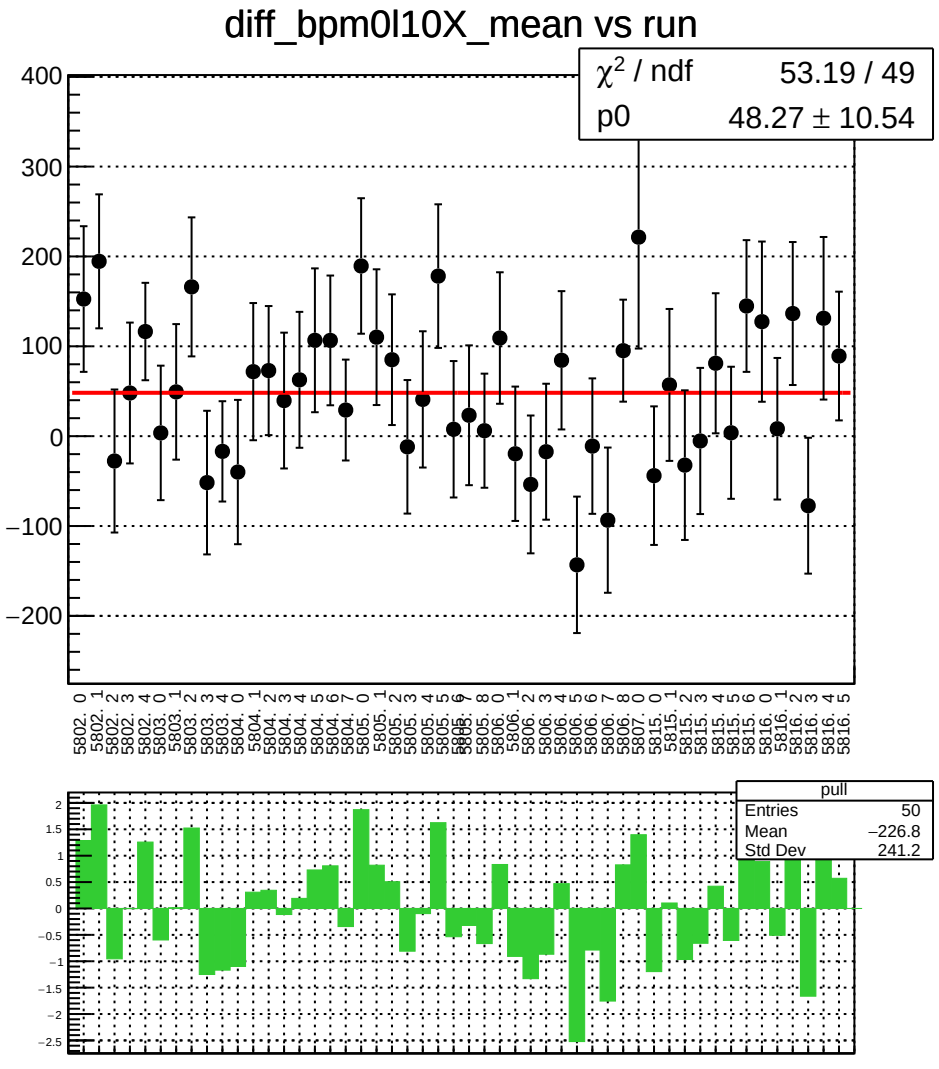

pull1D
Entries 50
Mean 0.008223
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

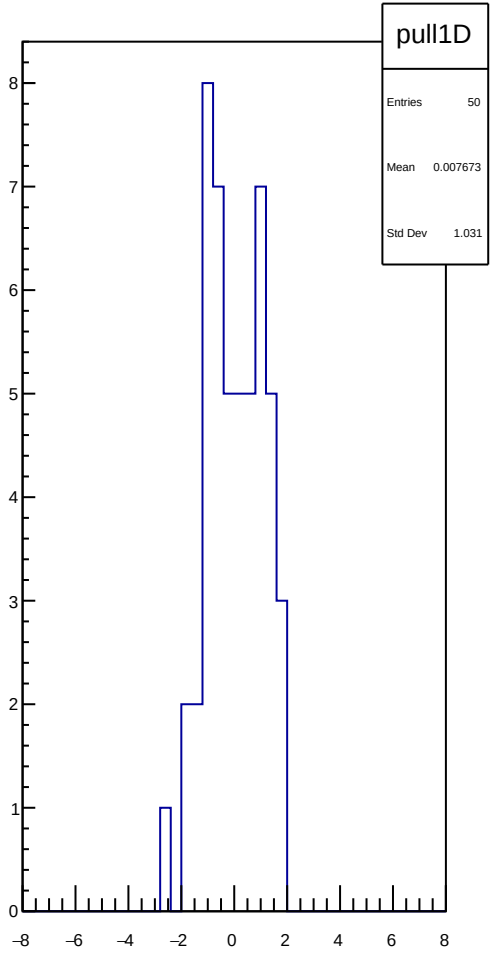

diff_bpm0l09X_rms vs run
χ² / ndf 2102 / 49
p0 7000 ± 7.122
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

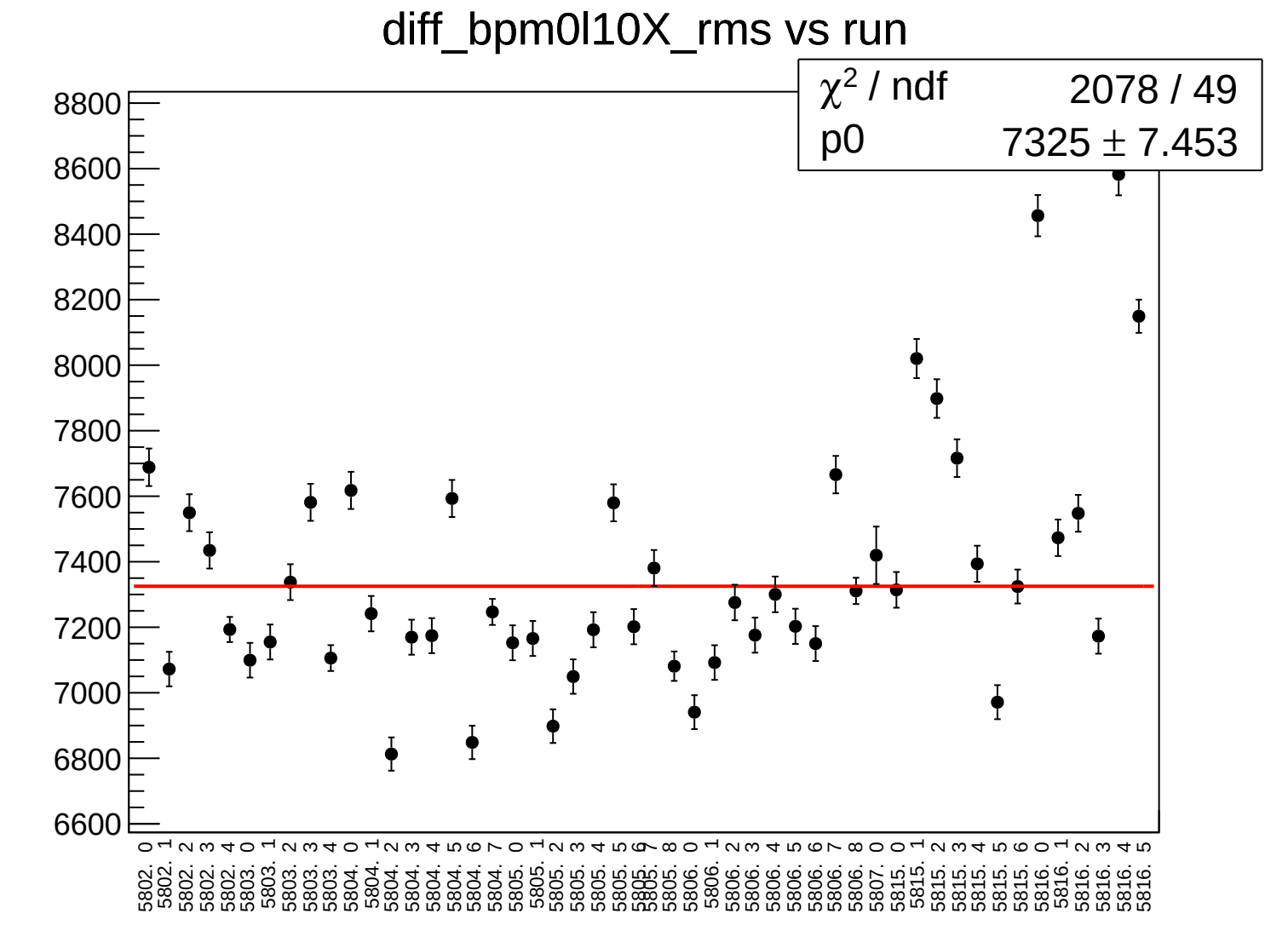

diff_bpm0l09Y_mean vs run
χ² / ndf 52.95 / 49
p0 −5.05 ± 1.666
pull
Entries 50
Mean −1519
Std Dev 1548

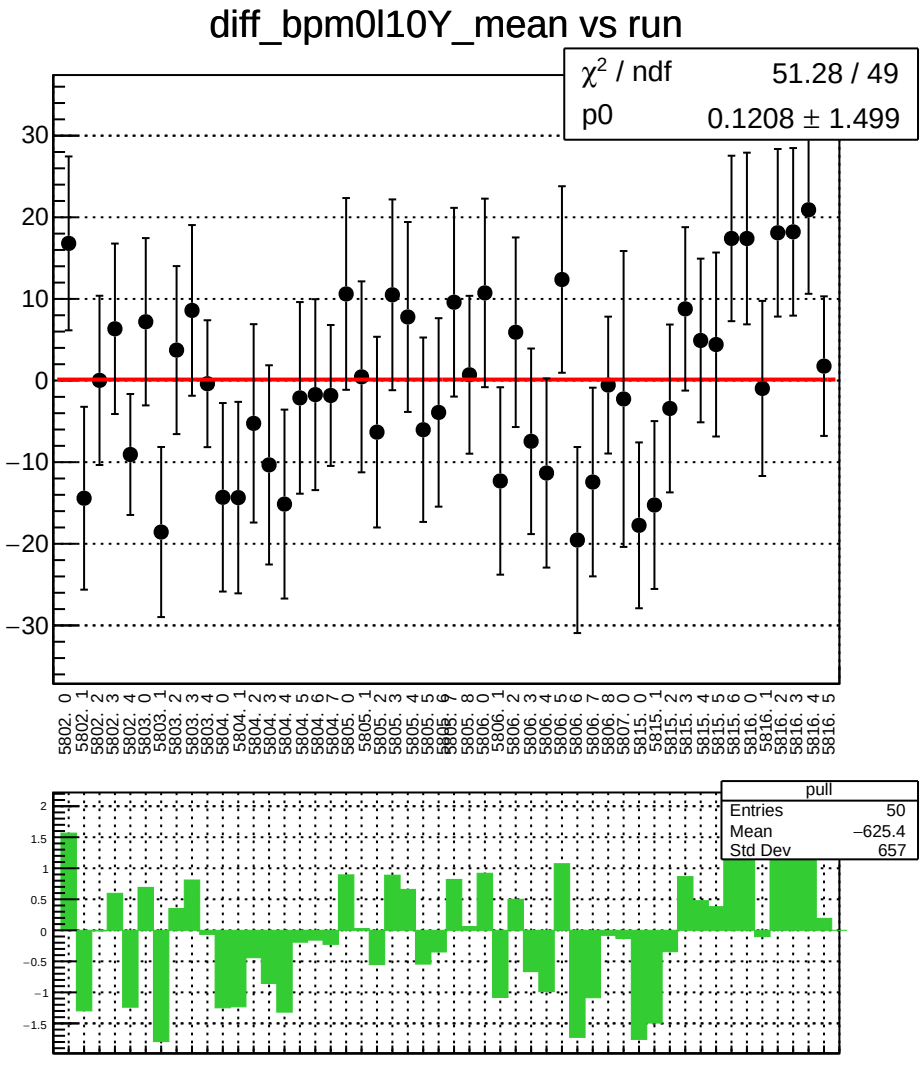

pull1D
Entries 50
Mean −0.0032
Std Dev 1.029

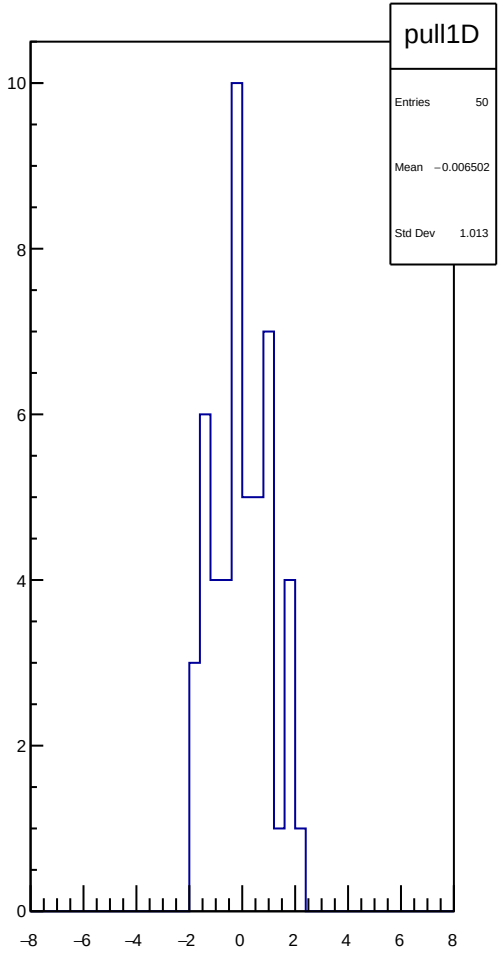

diff_bpm0l09Y_rms vs run
χ² / ndf 1892 / 49
p0 1158 ± 1.178
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

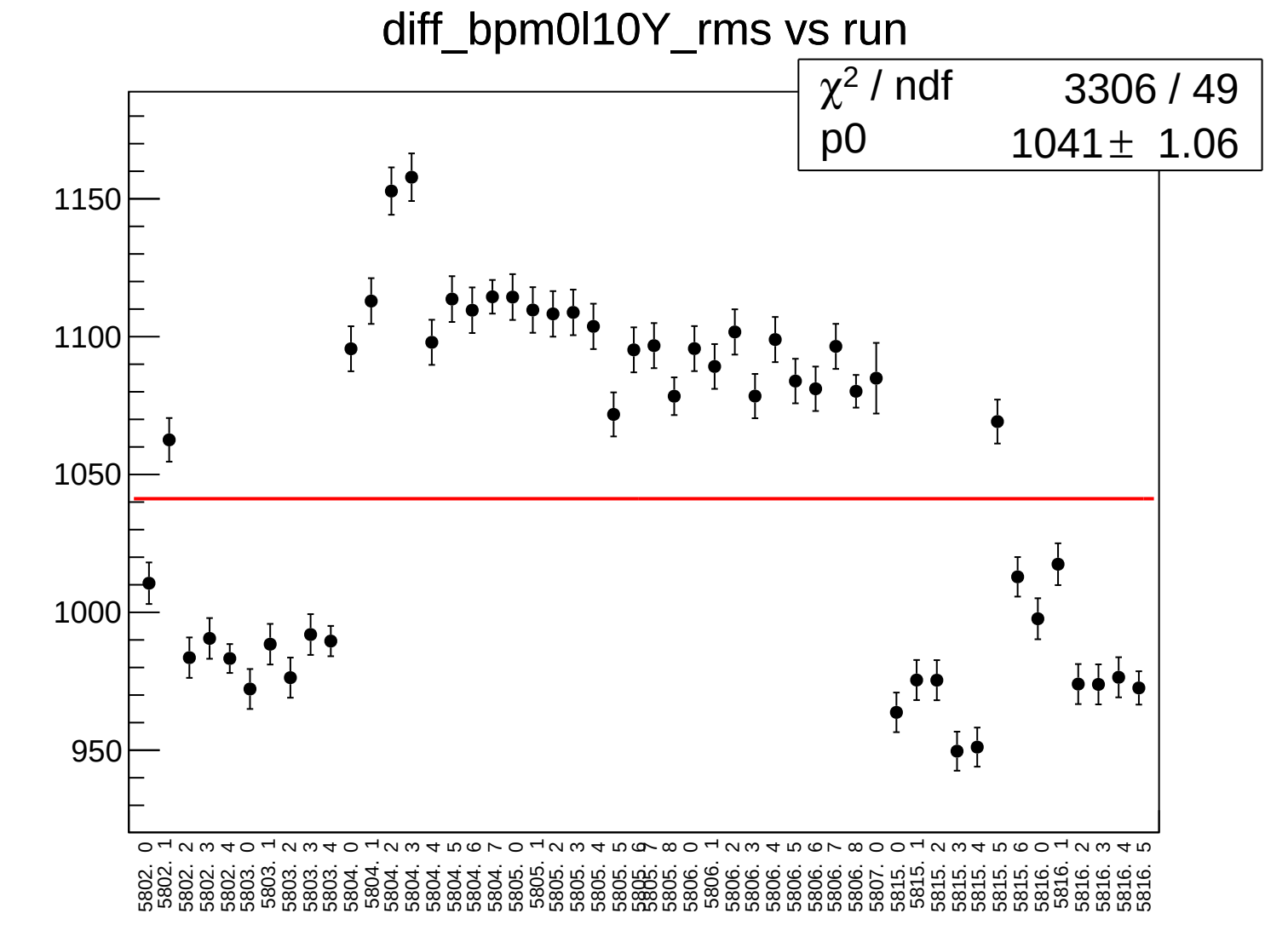

diff_bpm0l10X_mean vs run
χ^2 / ndf 53.19 / 49
p0 48.27 ± 10.54
pull
Entries 50
Mean −226.8
Std Dev 241.2

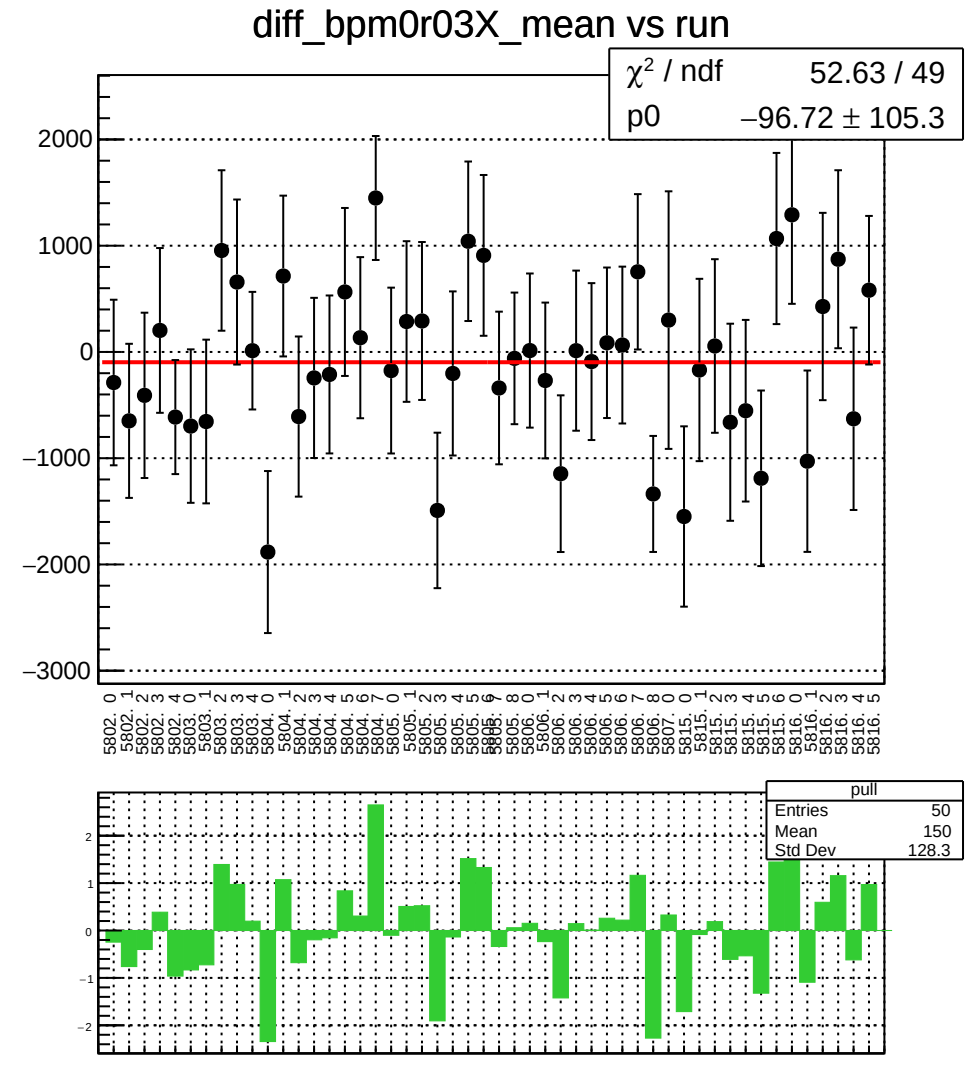

pull1D
Entries 50
Mean 0.007673
Std Dev 1.031

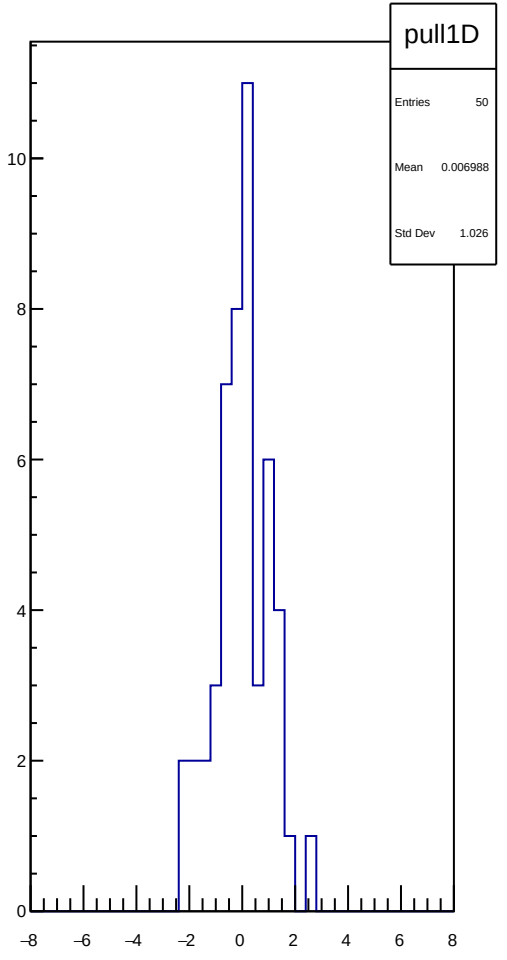

diff_bpm0l10X_rms vs run
χ² / ndf 2078 / 49
p0 7325 ± 7.453
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

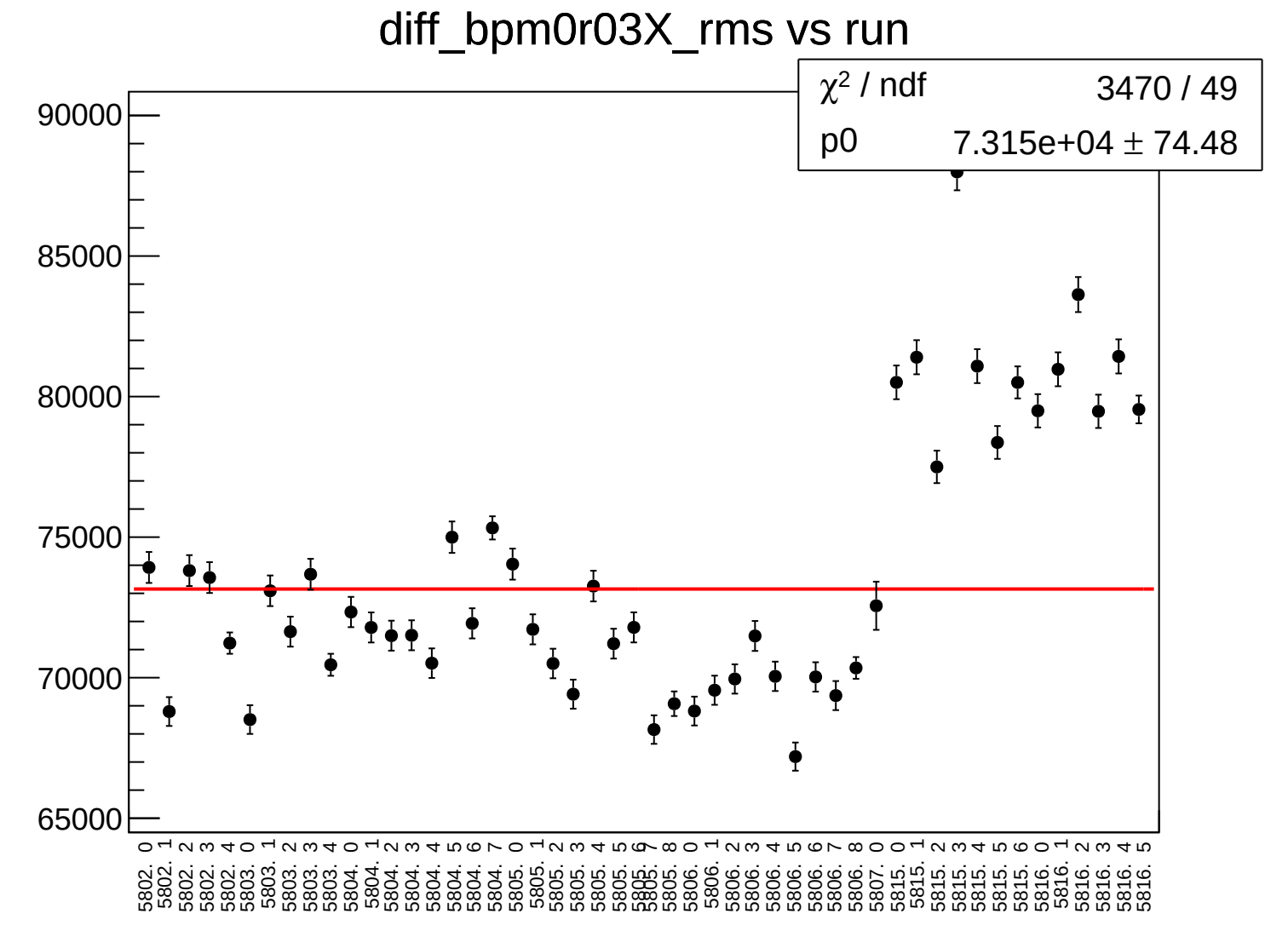

diff_bpm0l10Y_mean vs run
χ² / ndf 51.28 / 49
p0 0.1208 ± 1.499
pull
Entries 50
Mean −625.4
Std Dev 657

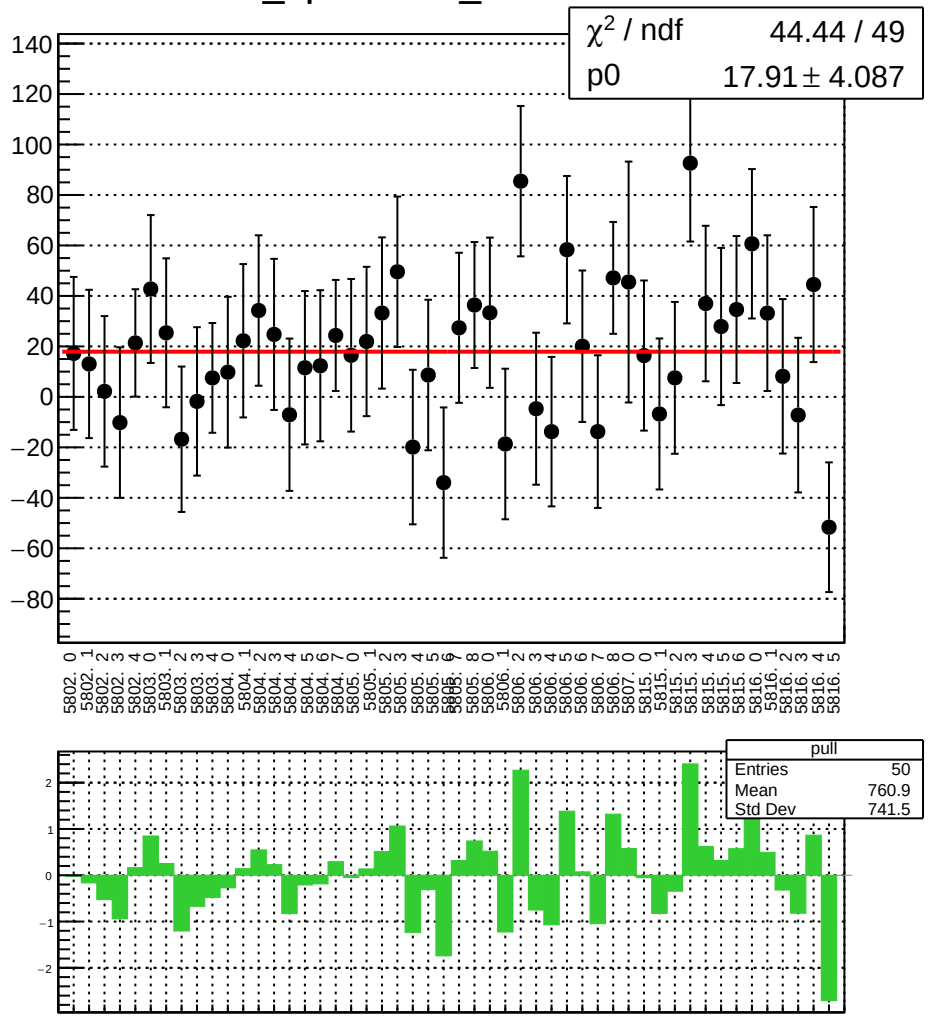

pull1D
Entries 50
Mean −0.006502
Std Dev 1.013

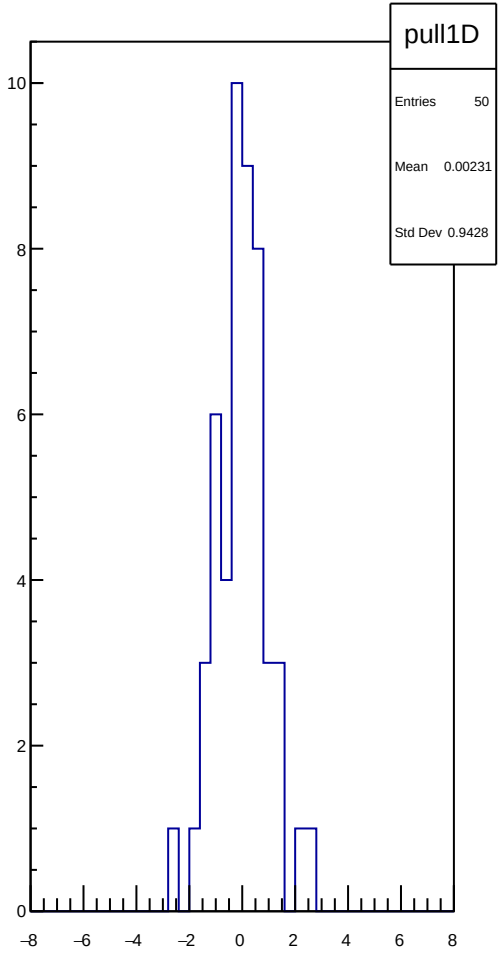

diff_bpm0l10Y_rms vs run
χ² / ndf 3306 / 49
p0 1041 ± 1.06
1150
1100
1050
1000
950
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

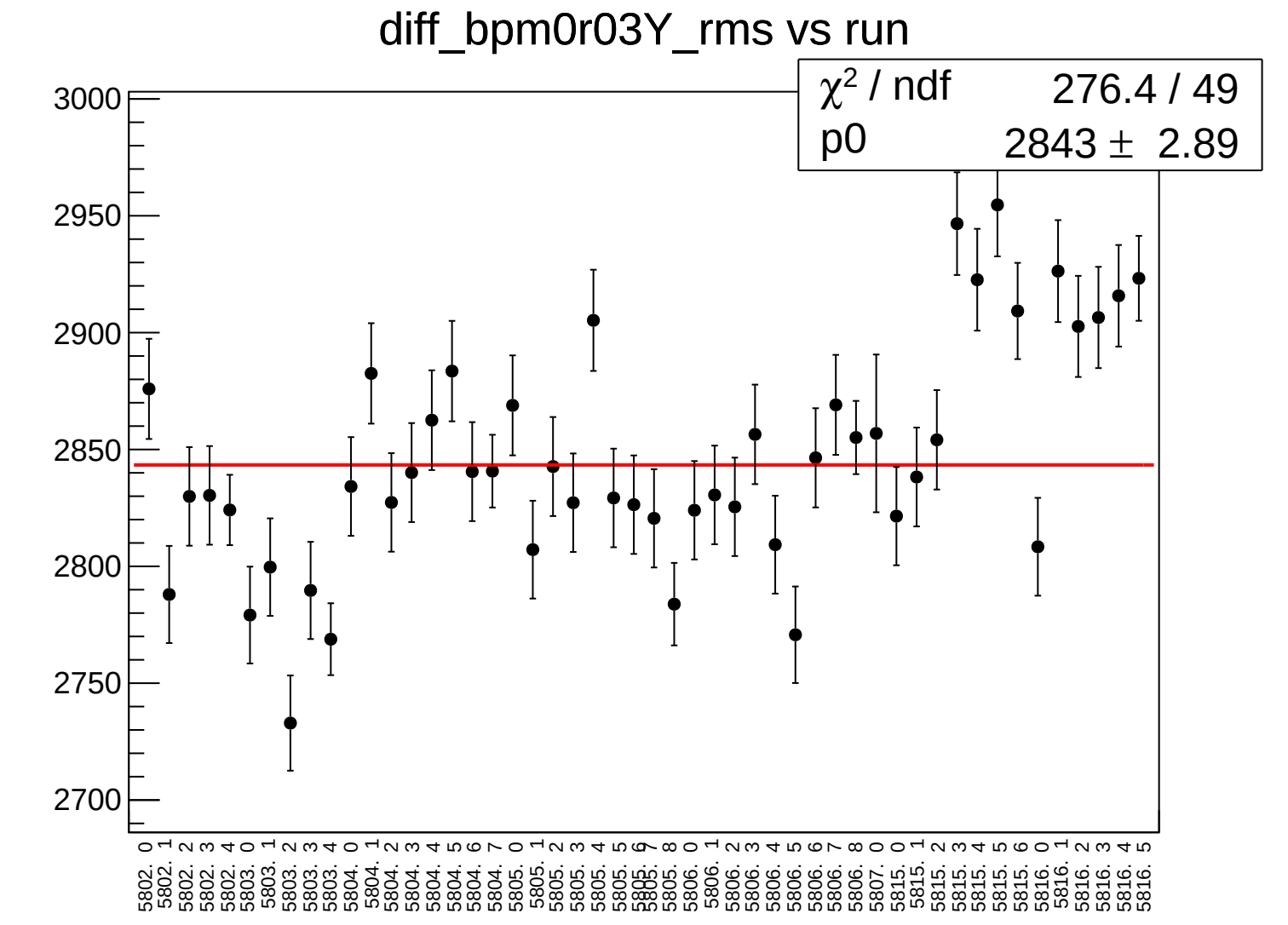

diff_bpm0r03X_mean vs run
χ² / ndf 52.63 / 49
p0 −96.72 ± 105.3
2000
1000
0
−1000
−2000
−3000
pull
Entries 50
Mean 150
Std Dev 128.3
2
1
0
−1
−2

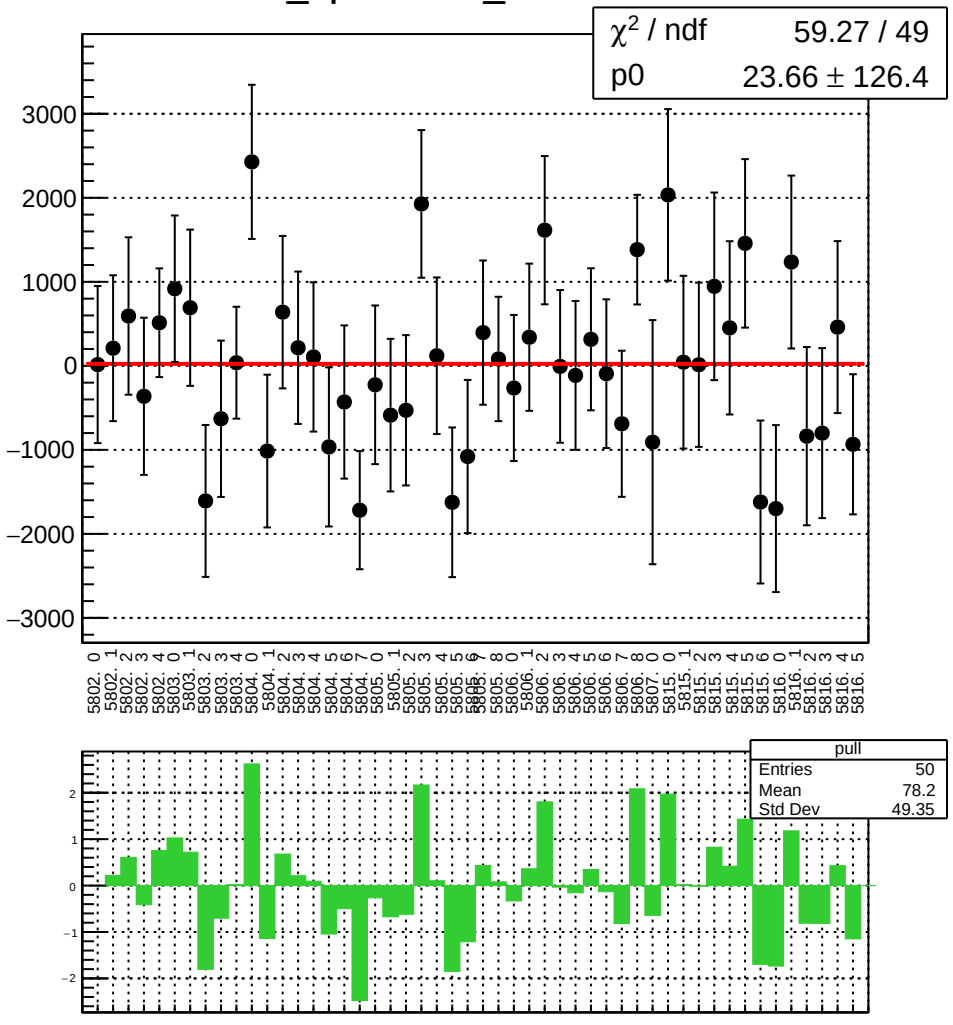

pull1D
Entries 50
Mean 0.006988
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

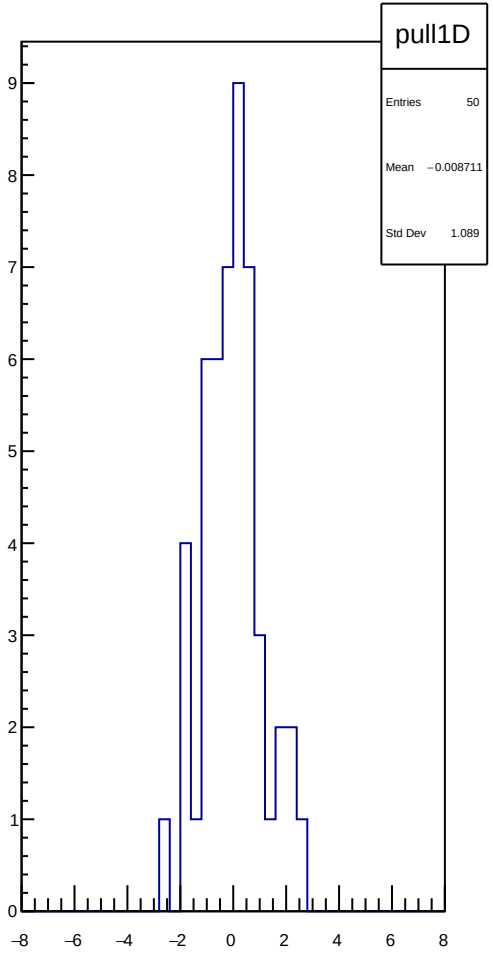

diff_bpm0r03X_rms vs run
χ² / ndf 3470 / 49
p0 7.315e+04 ± 74.48
90000
85000
80000
75000
70000
65000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

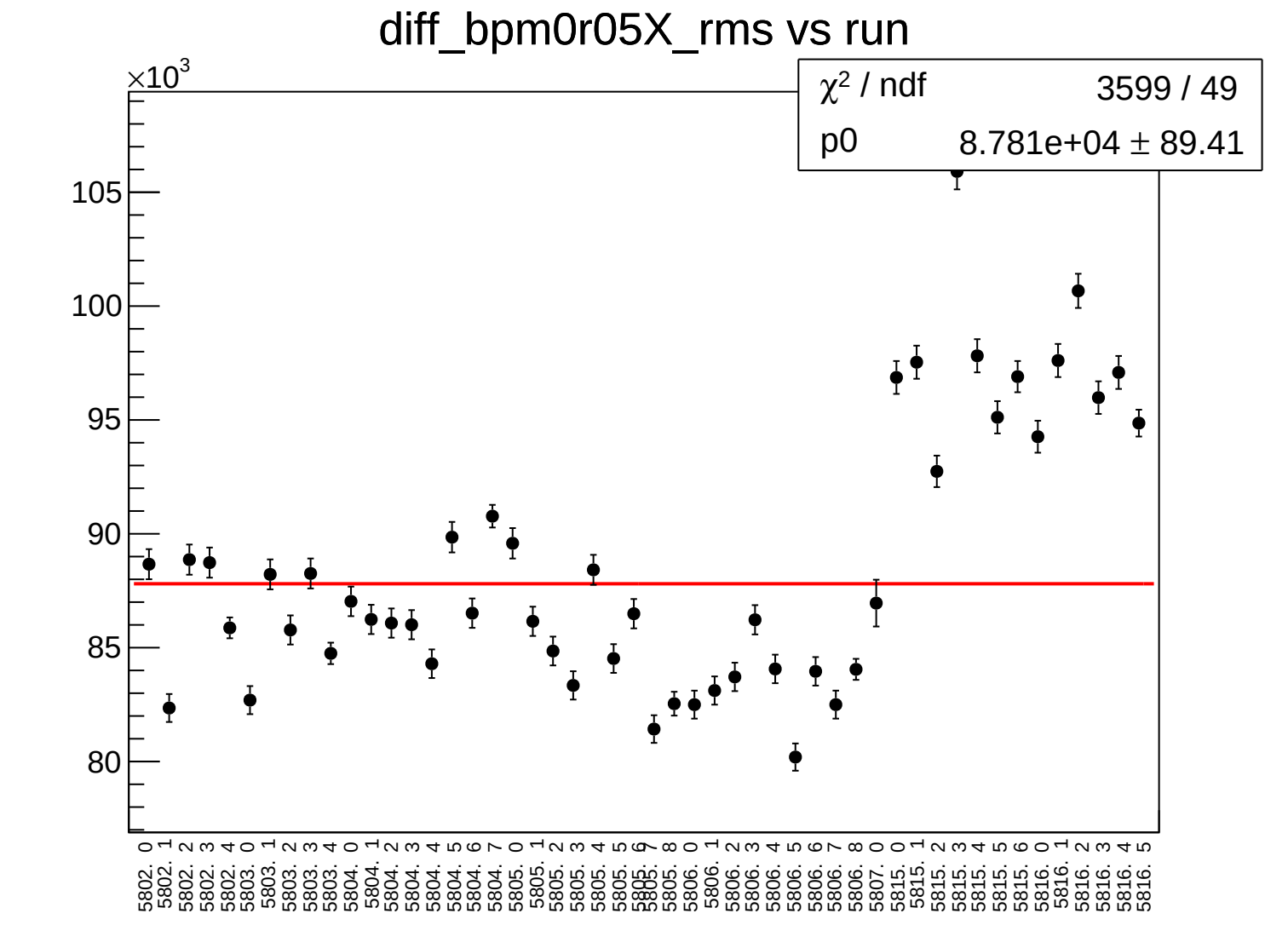

diff_bpm0r03Y_mean vs run
χ² / ndf 44.44 / 49
p0 17.91 ± 4.087
pull
Entries 50
Mean 760.9
Std Dev 741.5

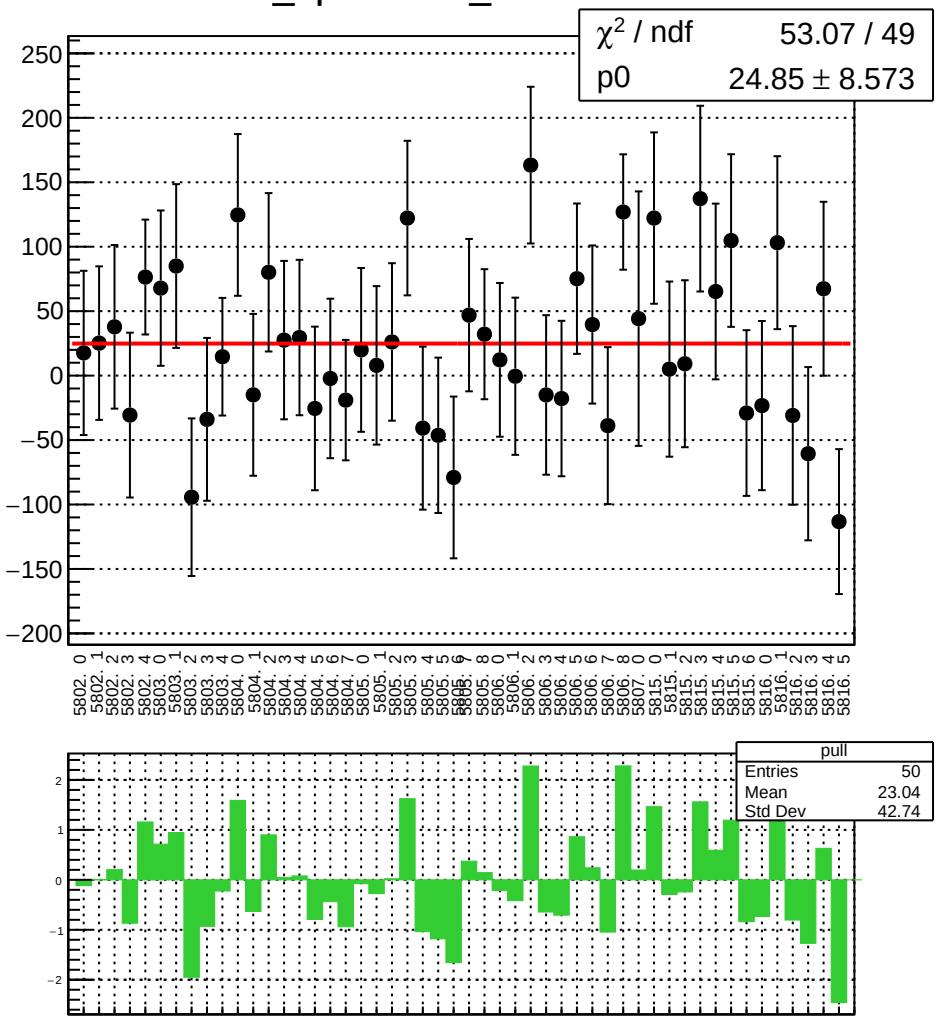

pull1D
Entries 50
Mean 0.00231
Std Dev 0.9428

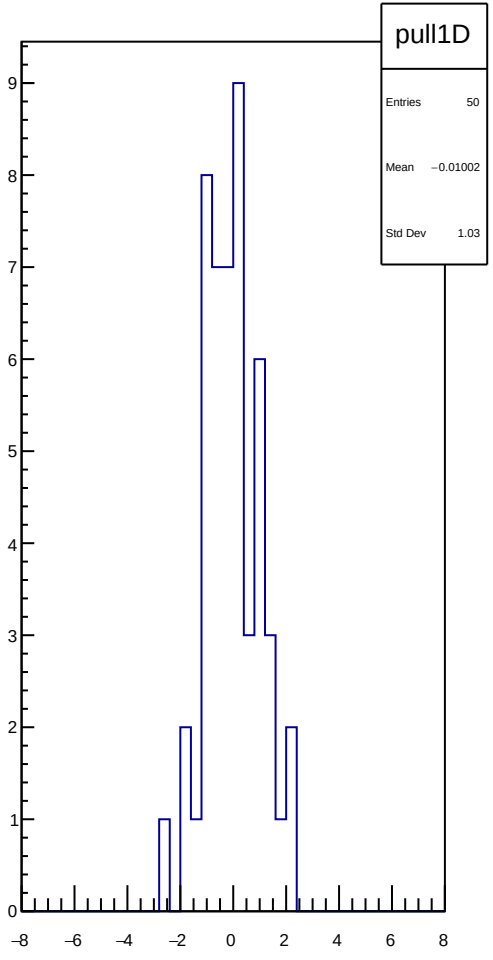

diff_bpm0r03Y_rms vs run
χ² / ndf 276.4 / 49
p0 2843 ± 2.89
3000
2950
2900
2850
2800
2750
2700
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

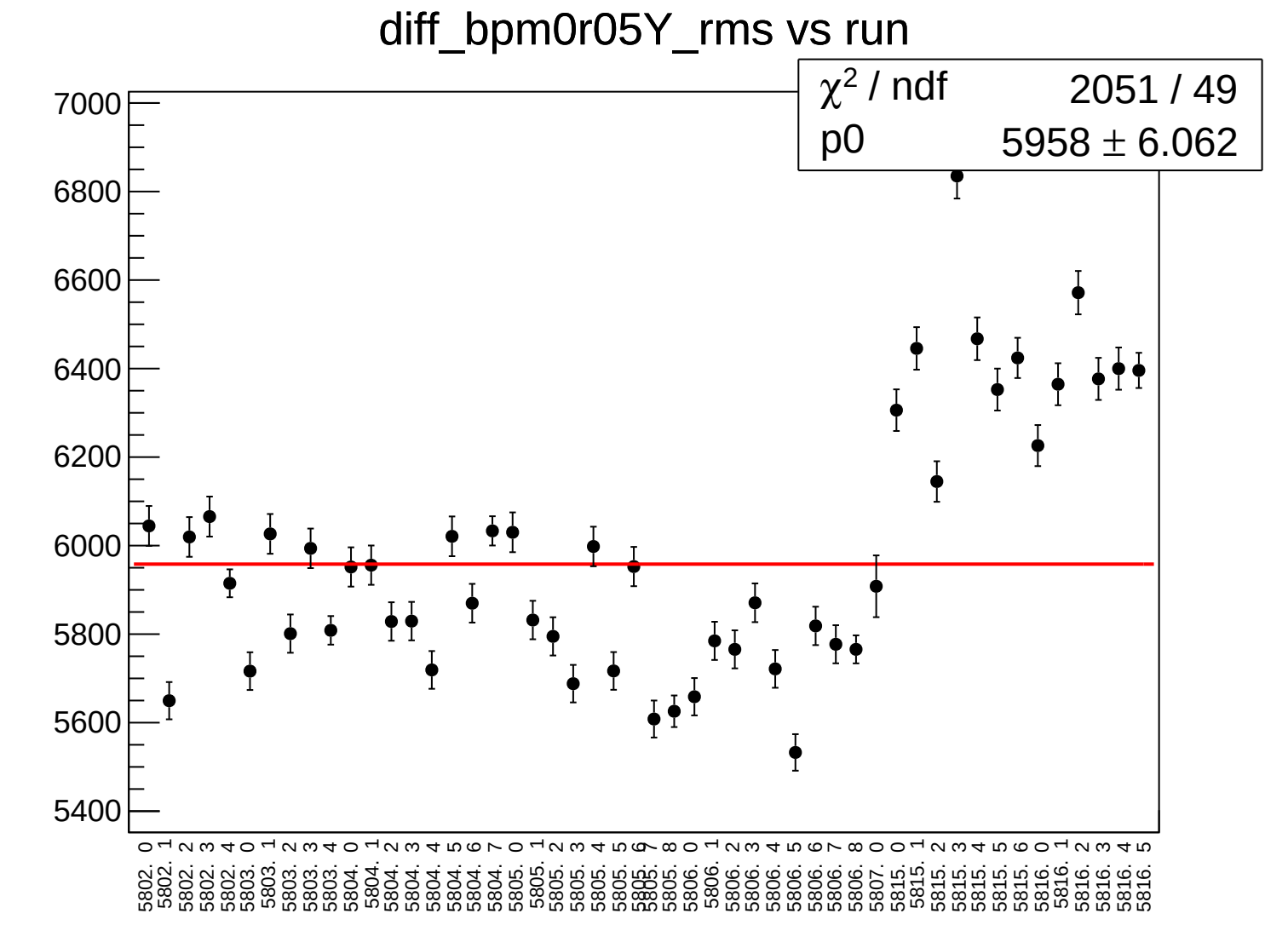

diff_bpm0r05X_mean vs run
χ² / ndf 59.27 / 49
p0 23.66 ± 126.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 50
Mean 78.2
Std Dev 49.35
2
1
0
−1
−2

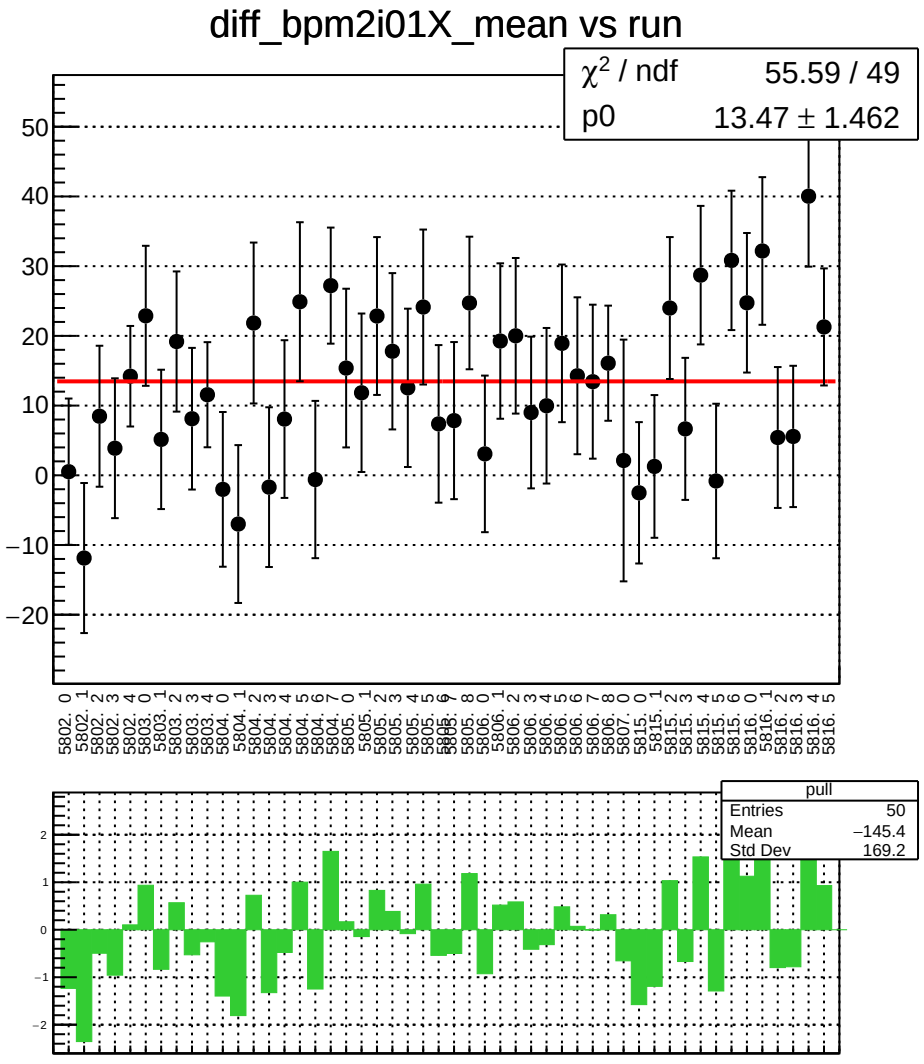

pull1D
Entries 50
Mean −0.008711
Std Dev 1.089
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

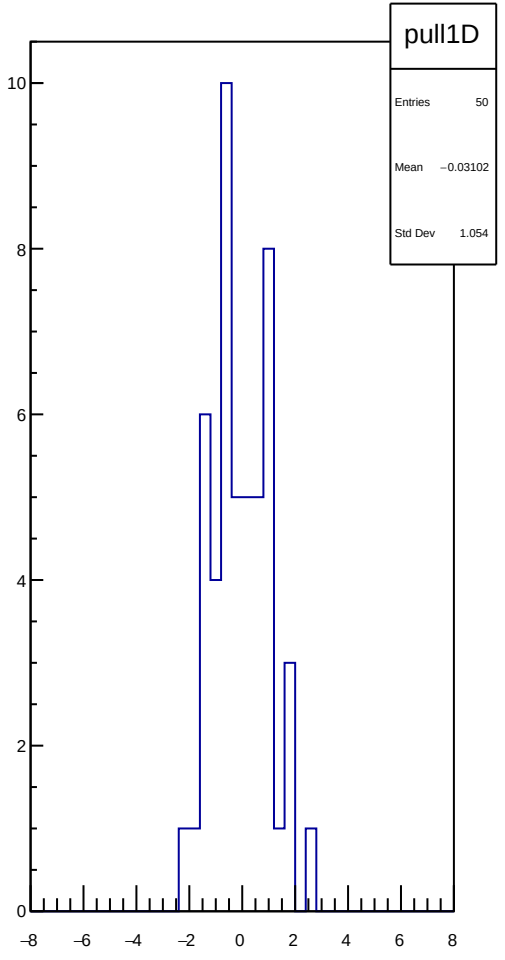

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 3599 / 49
p0 8.781e+04 ± 89.41
105
100
95
90
85
80
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

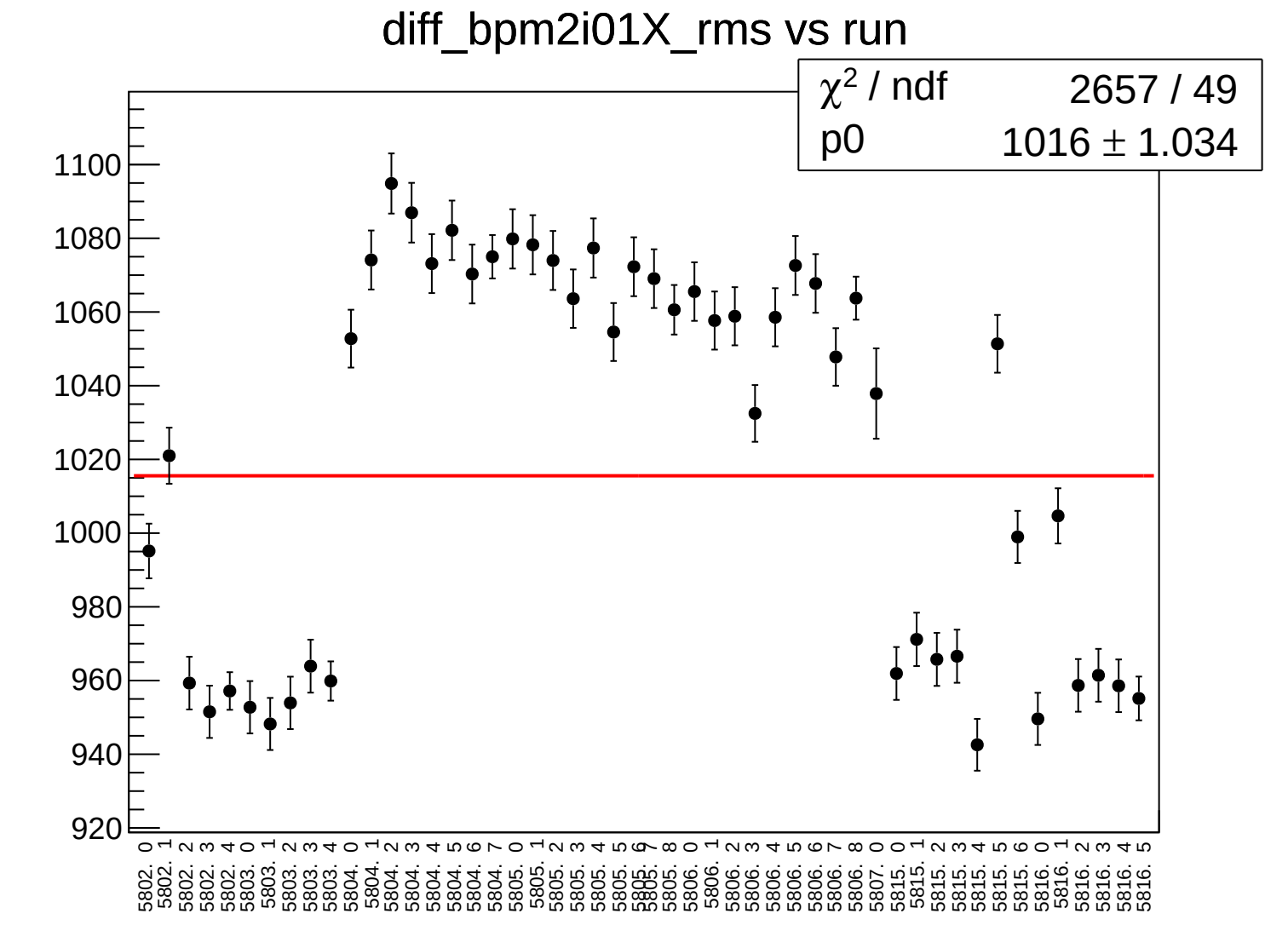

diff_bpm0r05Y_mean vs run
χ^2 / ndf 53.07 / 49
p0 24.85 ± 8.573
pull
Entries 50
Mean 23.04
Std Dev 42.74


pull1D
Entries 50
Mean −0.01002
Std Dev 1.03


diff_bpm0r05Y_rms vs run
χ² / ndf 2051 / 49
p0 5958 ± 6.062
7000
6800
6600
6400
6200
6000
5800
5600
5400
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm2i01X_mean vs run
χ^2 / ndf 55.59 / 49
p0 13.47 ± 1.462
pull
Entries 50
Mean −145.4
Std Dev 169.2


pull1D
Entries 50
Mean −0.03102
Std Dev 1.054


diff_bpm2i01X_rms vs run
χ² / ndf 2657 / 49
p0 1016 ± 1.034
1100
1080
1060
1040
1020
1000
980
960
940
920
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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5816. 2
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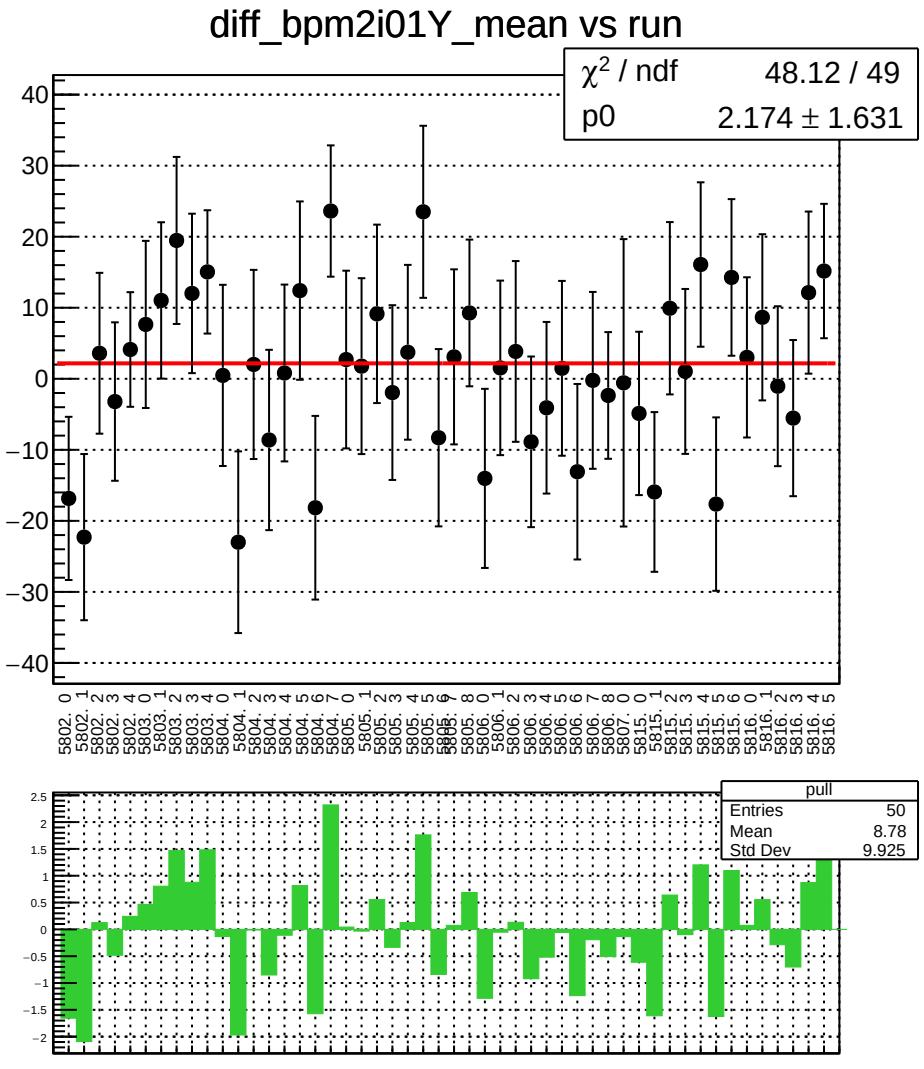
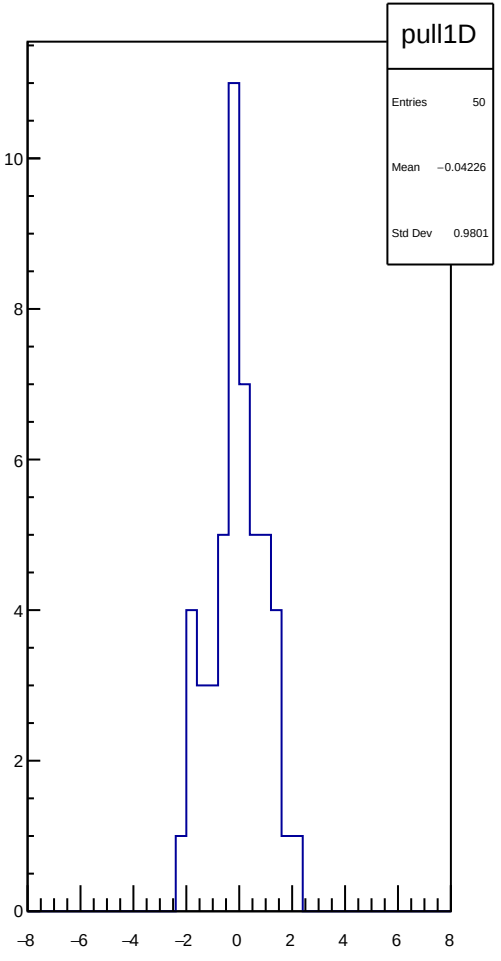
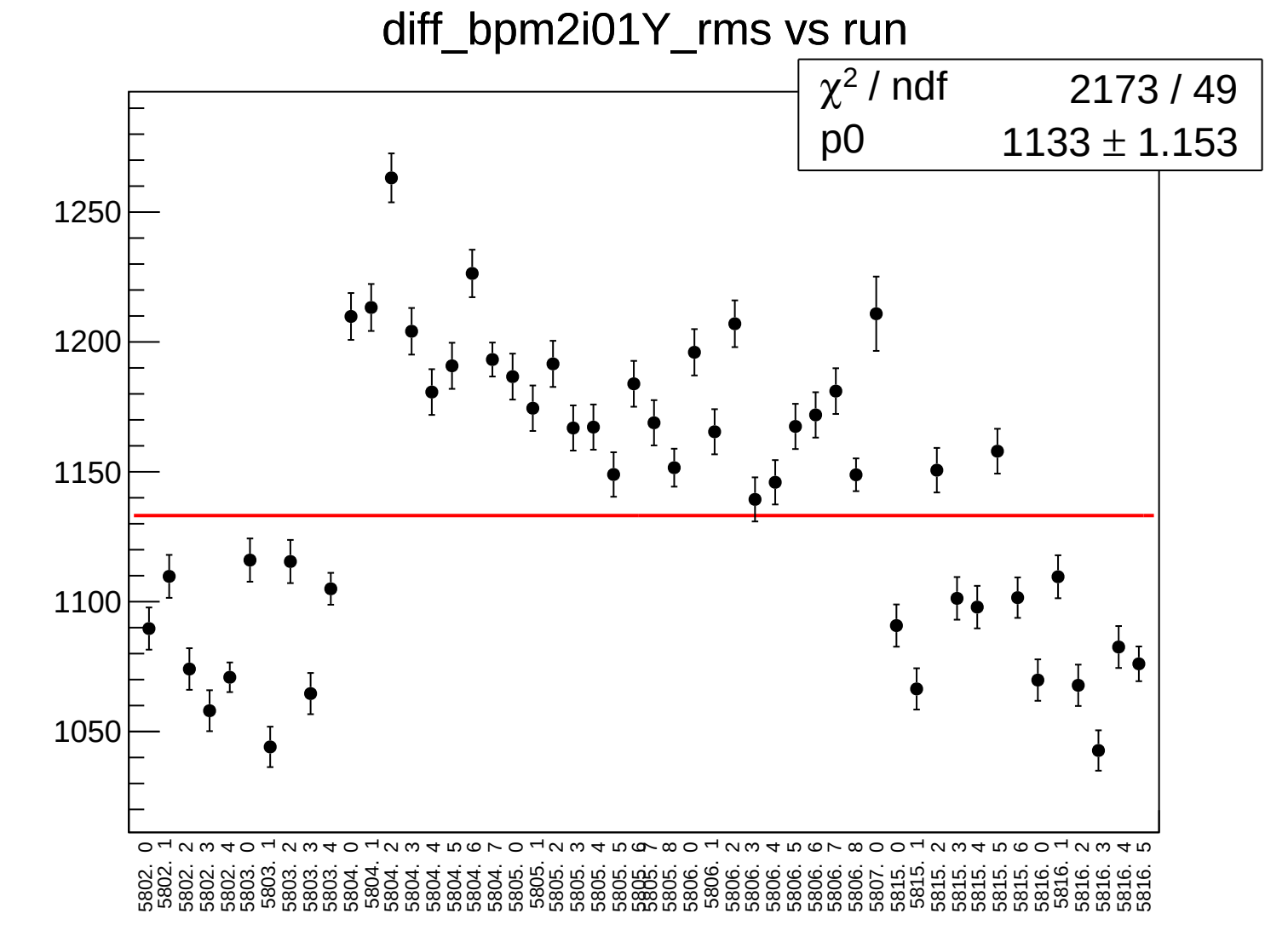
5816. 4
5816. 5


diff_bpm2i01Y_mean vs run
χ^2 / ndf 48.12 / 49
p0 2.174 ± 1.631
pull
Entries 50
Mean 8.78
Std Dev 9.925


pull1D
Entries 50
Mean −0.04226
Std Dev 0.9801


diff_bpm2i01Y_rms vs run
χ² / ndf 2173 / 49
p0 1133 ± 1.153
1250
1200
1150
1100
1050
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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5816. 2
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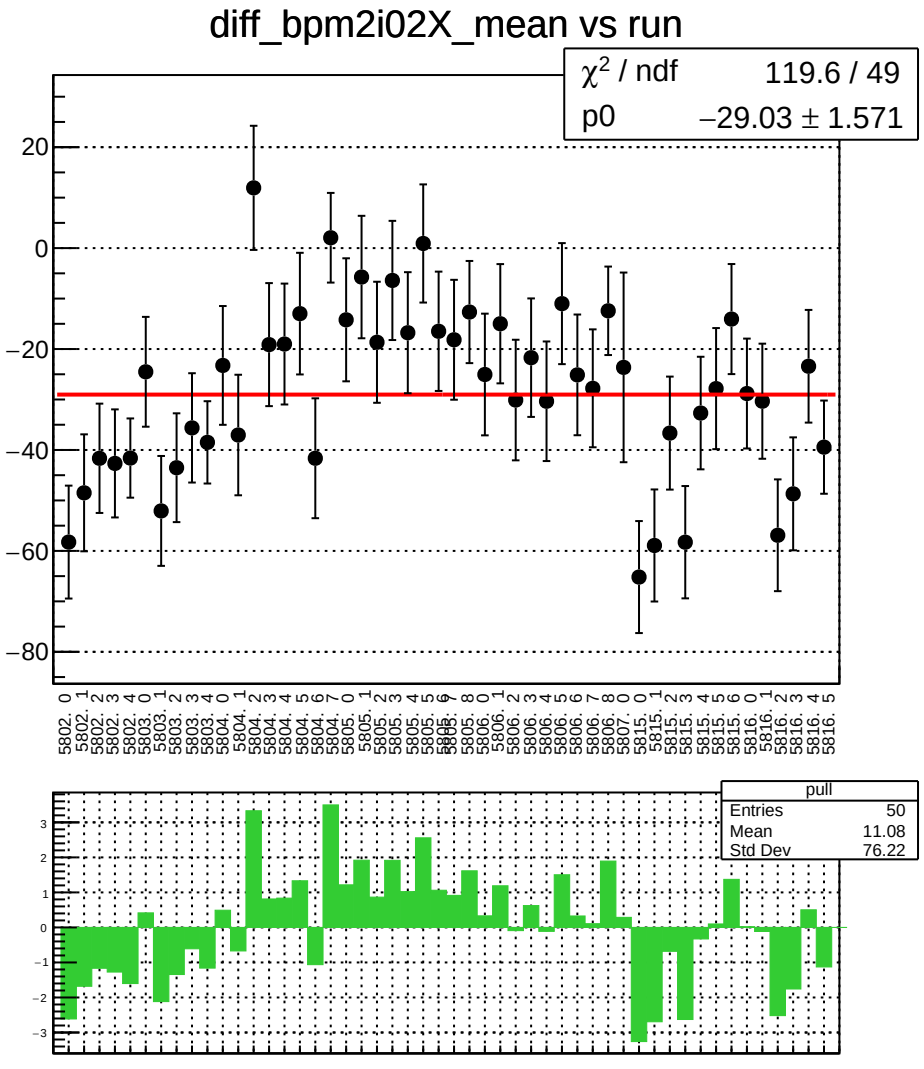
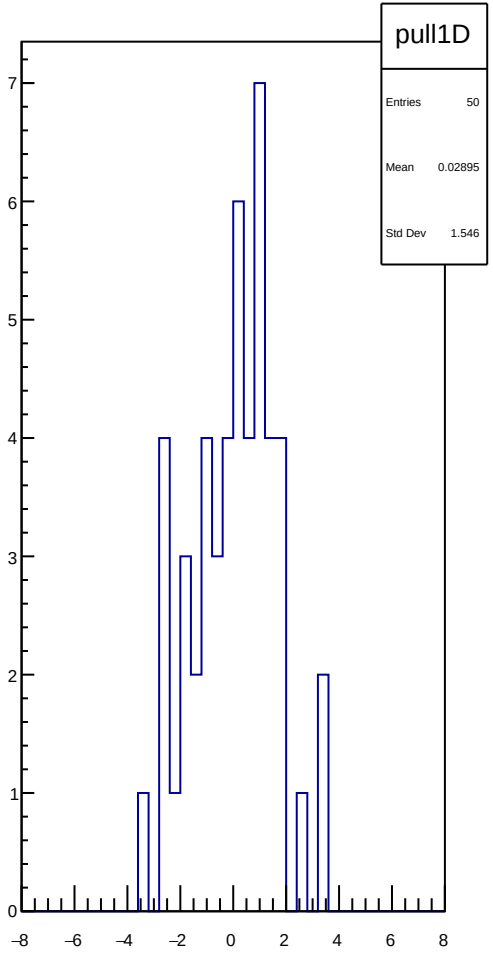
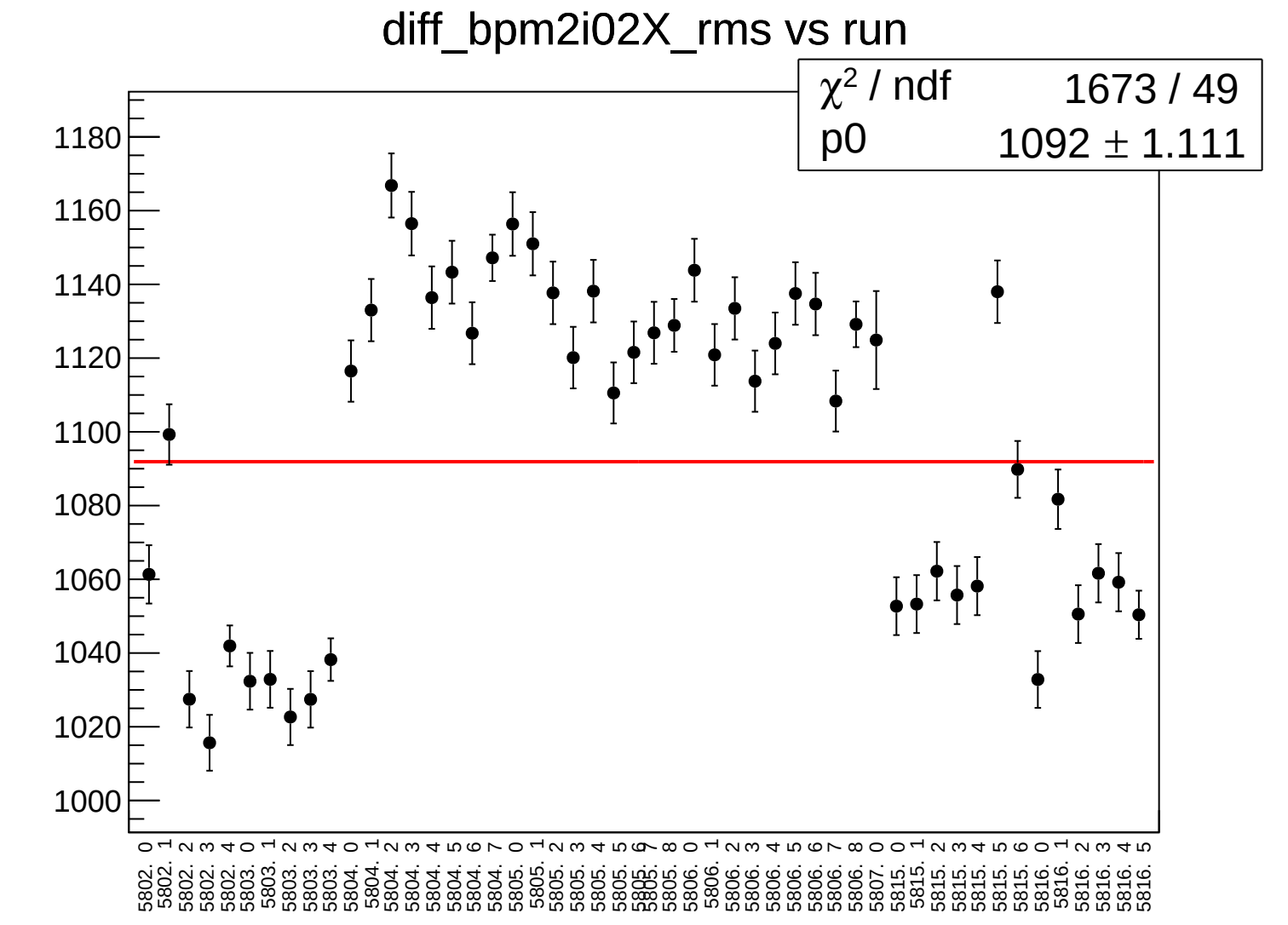
5816. 4
5816. 5


diff_bpm2i02X_mean vs run
χ^2 / ndf 119.6 / 49
p0 −29.03 ± 1.571
20
0
−20
−40
−60
−80
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 11.08
Std Dev 76.22
3
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.02895
Std Dev 1.546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm2i02X_rms vs run
χ² / ndf 1673 / 49
p0 1092 ± 1.111
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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5804. 0
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5804. 5
5804. 6
5804. 7
5805. 0
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5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
5816. 0
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5816. 2
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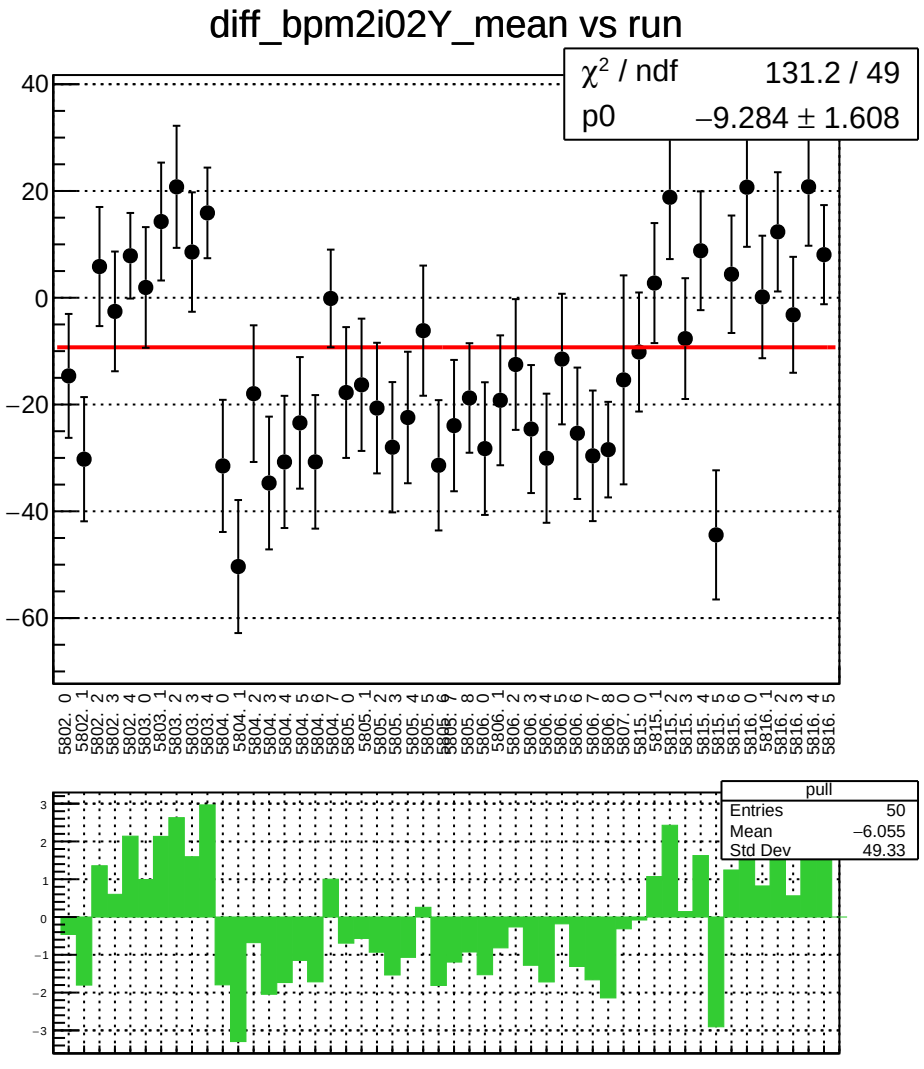
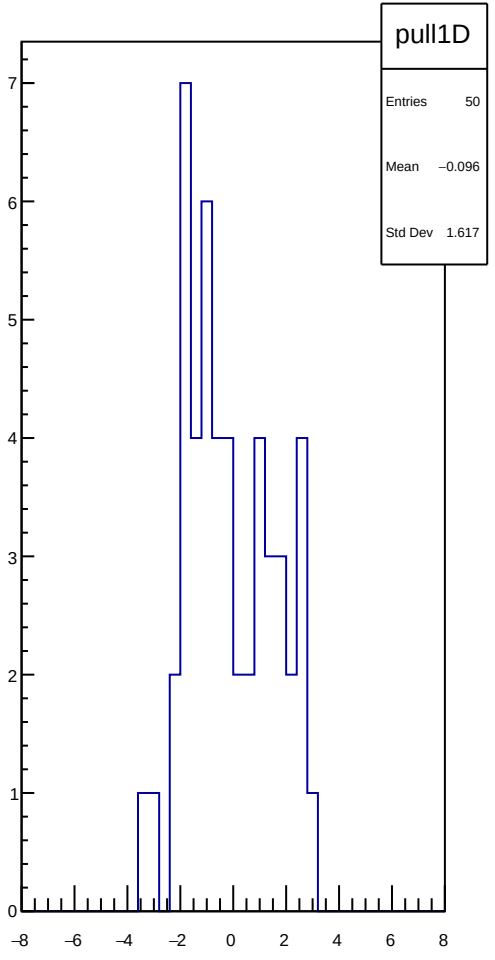
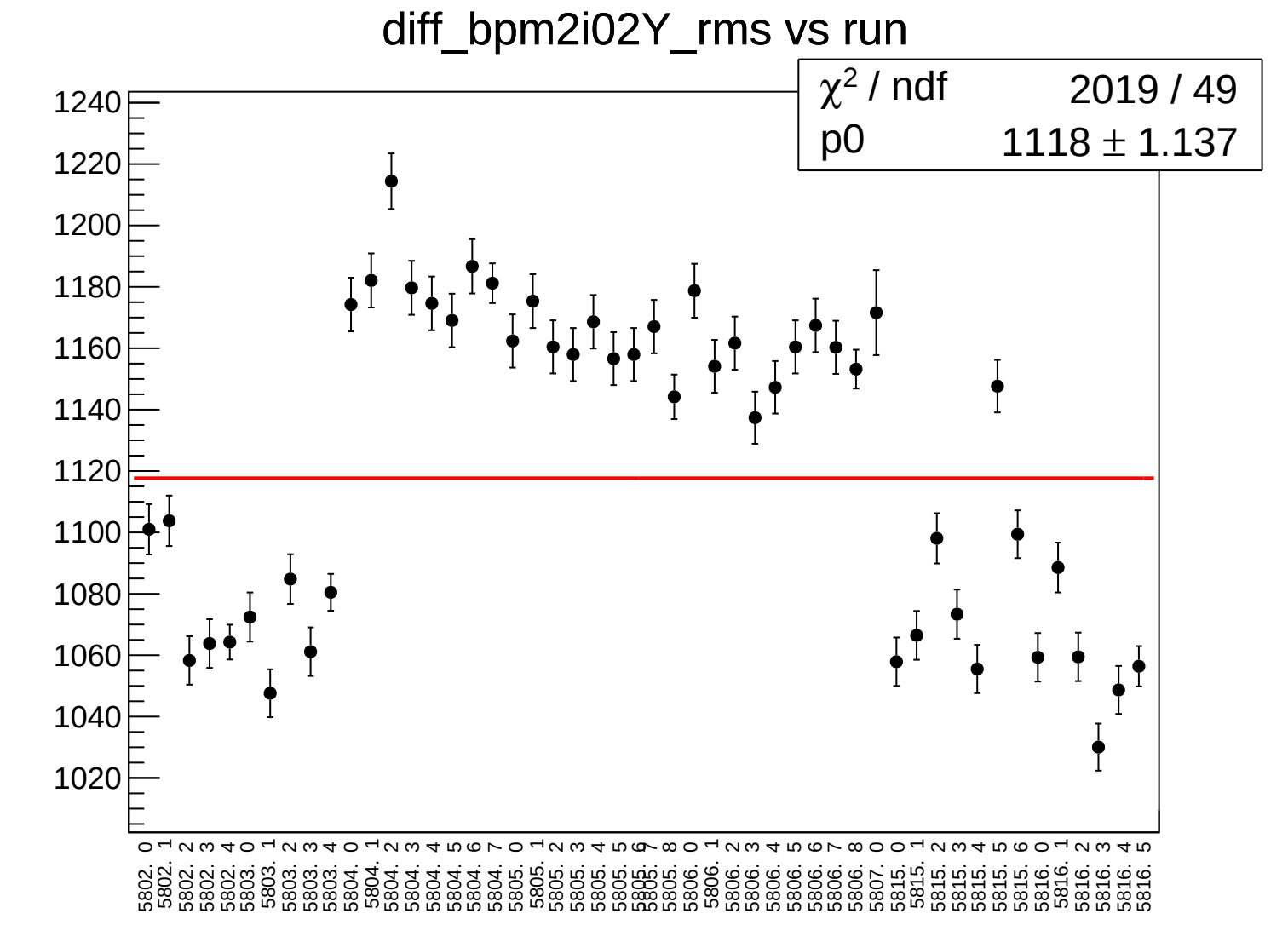
5816. 4
5816. 5


diff_bpm2i02Y_mean vs run
χ² / ndf 131.2 / 49
p0 −9.284 ± 1.608
pull
Entries 50
Mean −6.055
Std Dev 49.33


pull1D
Entries 50
Mean −0.096
Std Dev 1.617


diff_bpm2i02Y_rms vs run
χ² / ndf 2019 / 49
p0 1118 ± 1.137
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
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5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 6
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5816. 2
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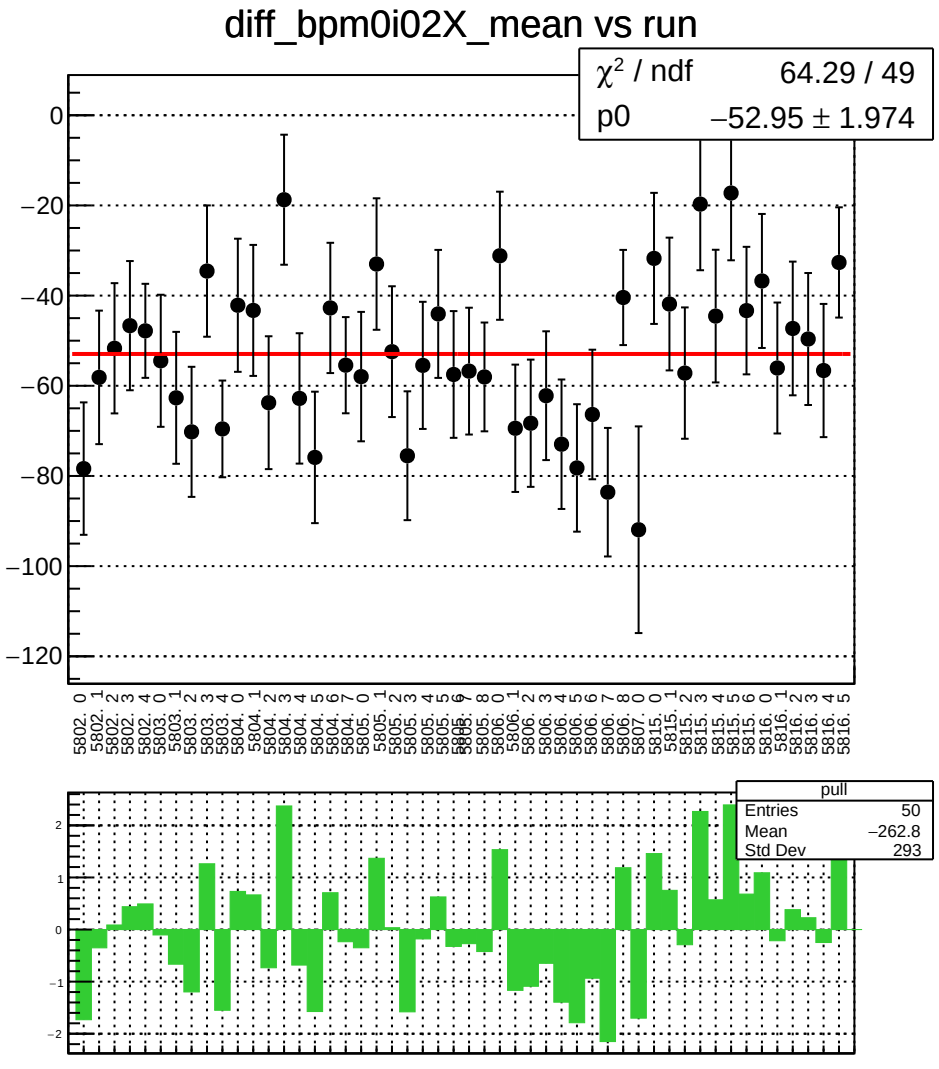
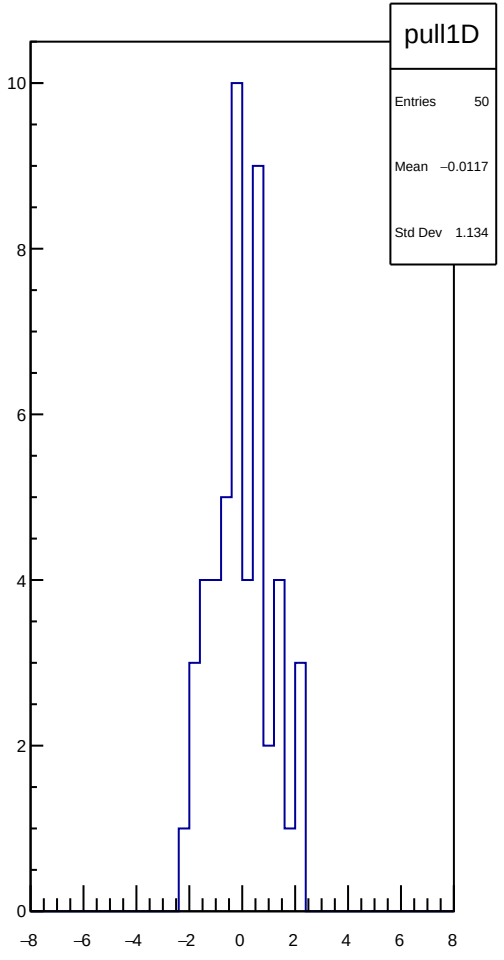
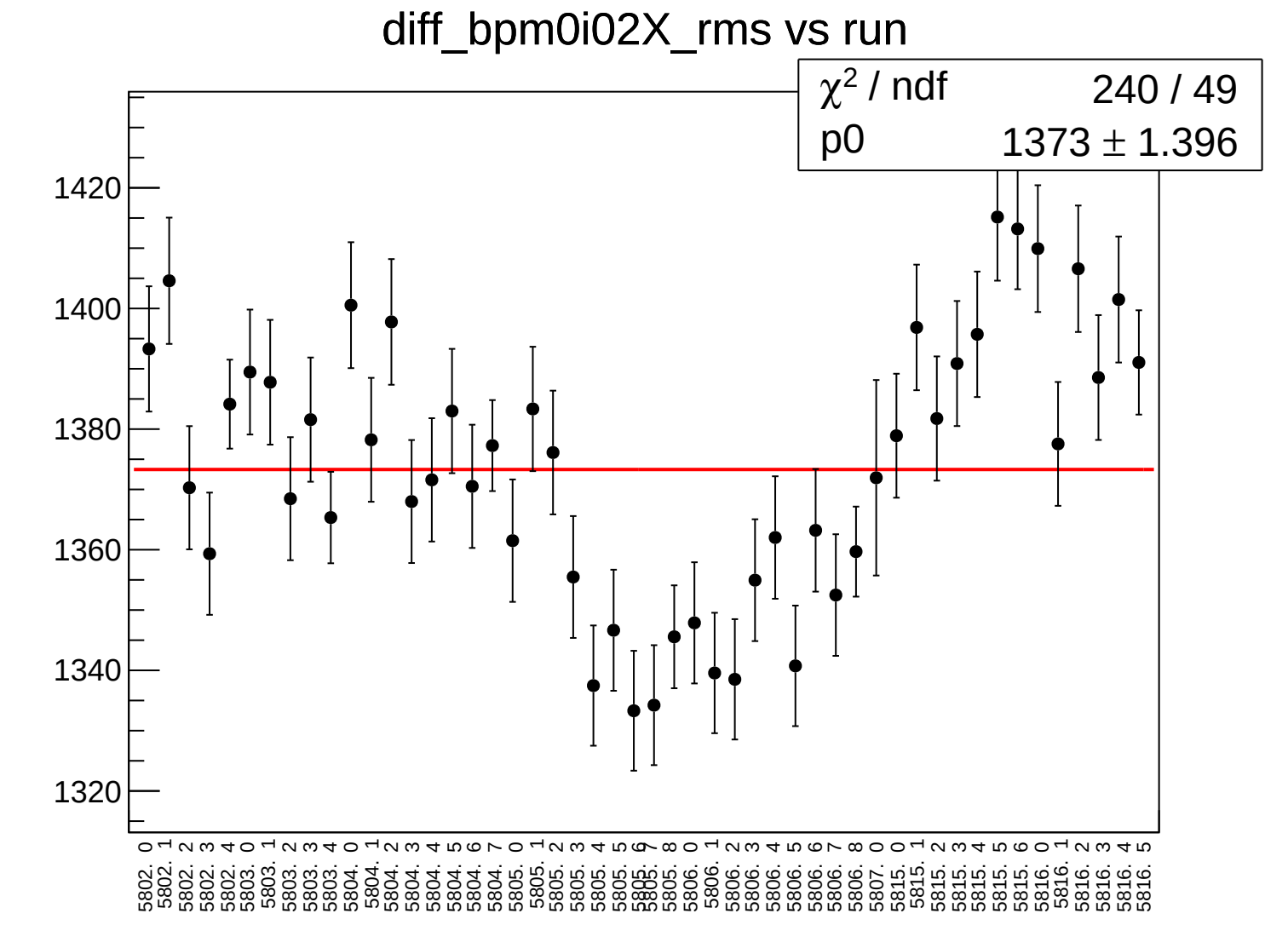
5816. 5


diff_bpm0i02X_mean vs run
χ² / ndf 64.29 / 49
p0 −52.95 ± 1.974
pull
Entries 50
Mean −262.8
Std Dev 293


pull1D
Entries 50
Mean −0.0117
Std Dev 1.134


diff_bpm0i02X_rms vs run
χ² / ndf 240 / 49
p0 1373 ± 1.396
1420
1400
1380
1360
1340
1320
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
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5805. 6
5805. 7
5805. 8
5806. 0
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5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 6
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5816. 2
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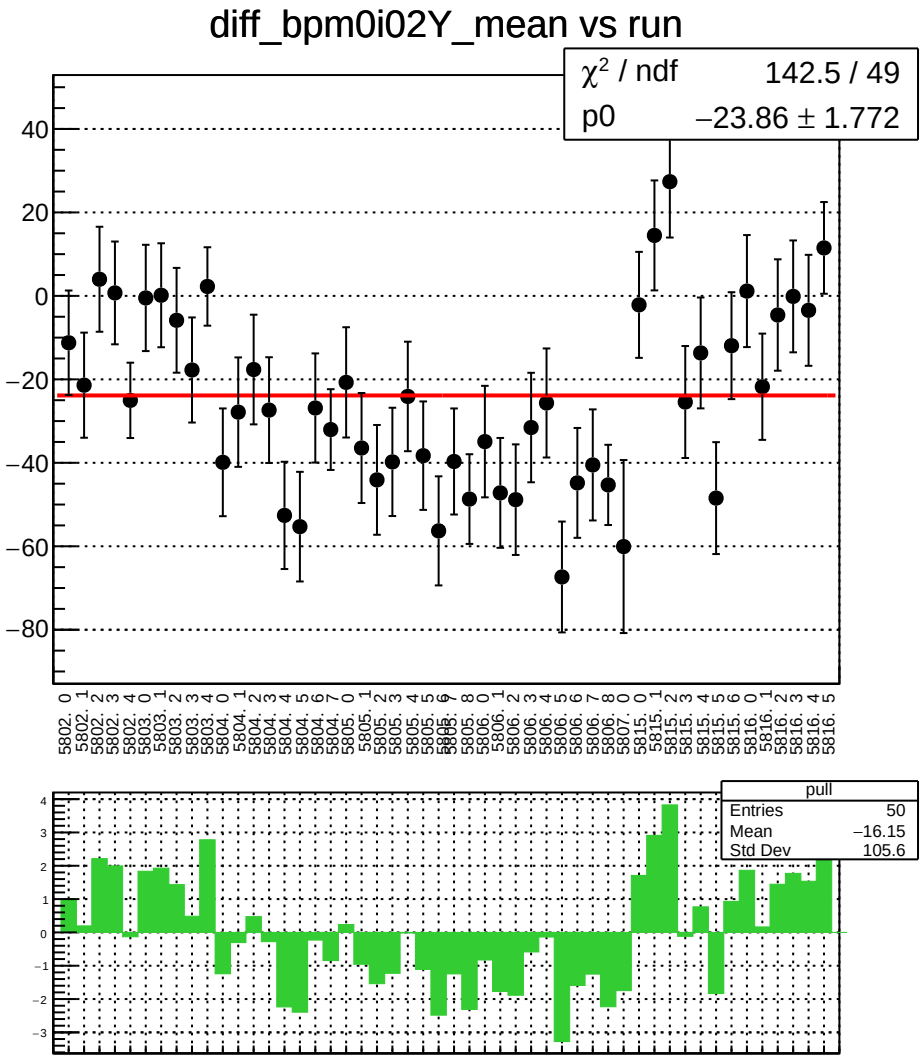
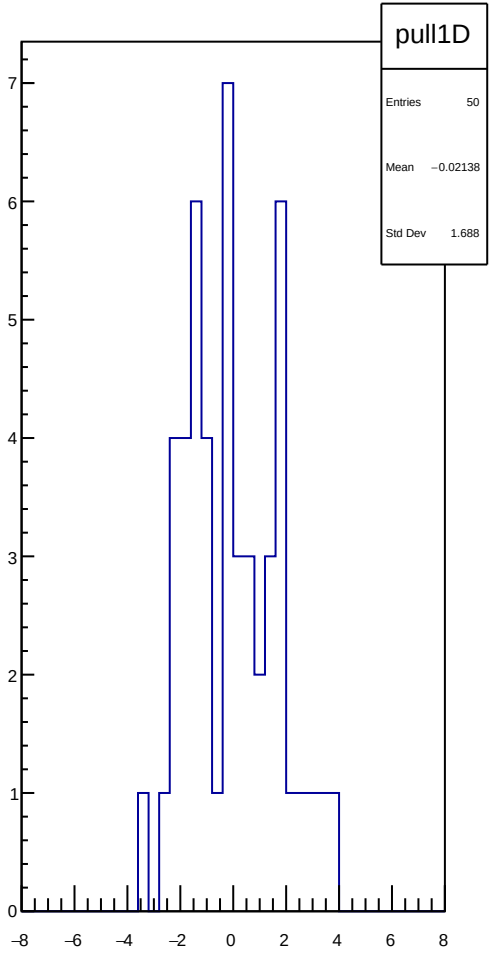
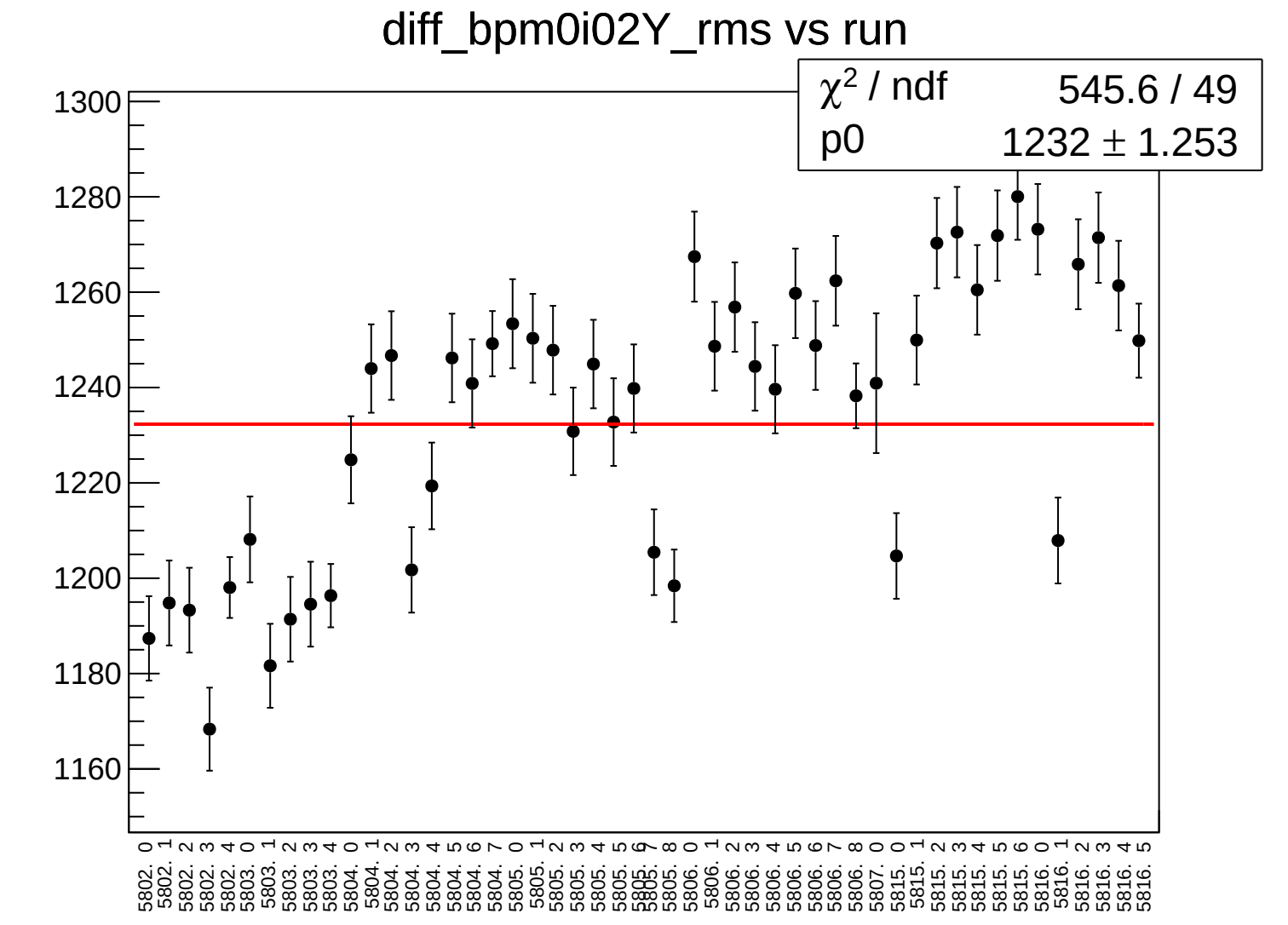
5816. 5


diff_bpm0i02Y_mean vs run
χ² / ndf 142.5 / 49
p0 −23.86 ± 1.772
pull
Entries 50
Mean −16.15
Std Dev 105.6


pull1D
Entries 50
Mean −0.02138
Std Dev 1.688


diff_bpm0i02Y_rms vs run
χ² / ndf 545.6 / 49
p0 1232 ± 1.253
1300
1280
1260
1240
1220
1200
1180
1160
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
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5805. 6
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5805. 8
5806. 0
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5806. 2
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5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5816. 2
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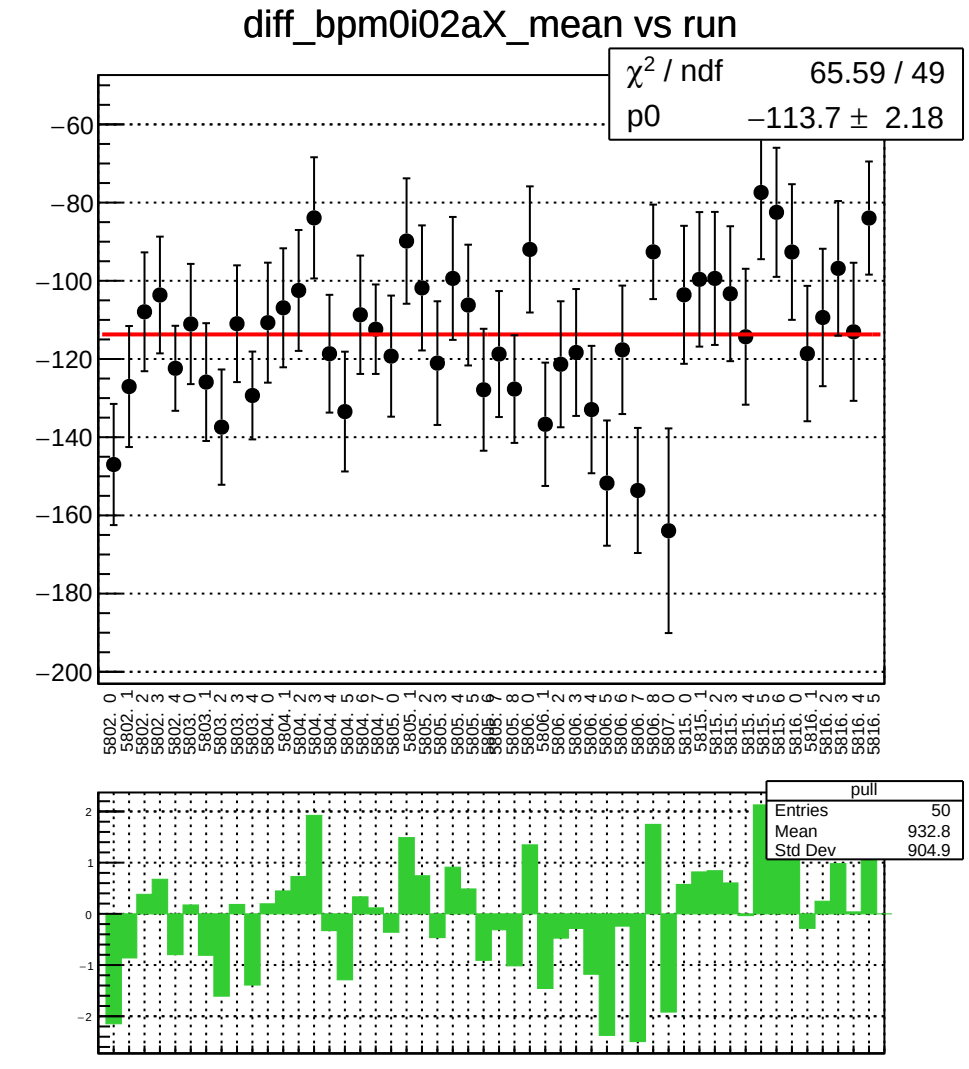
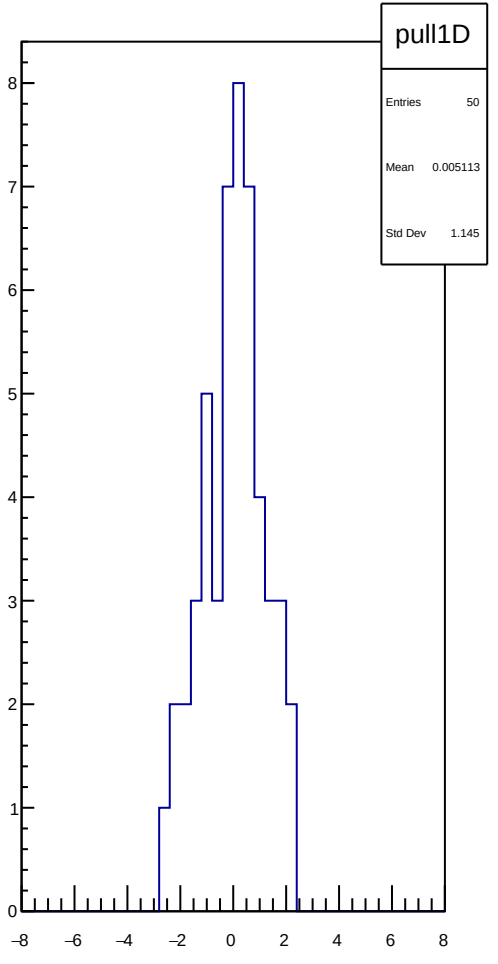
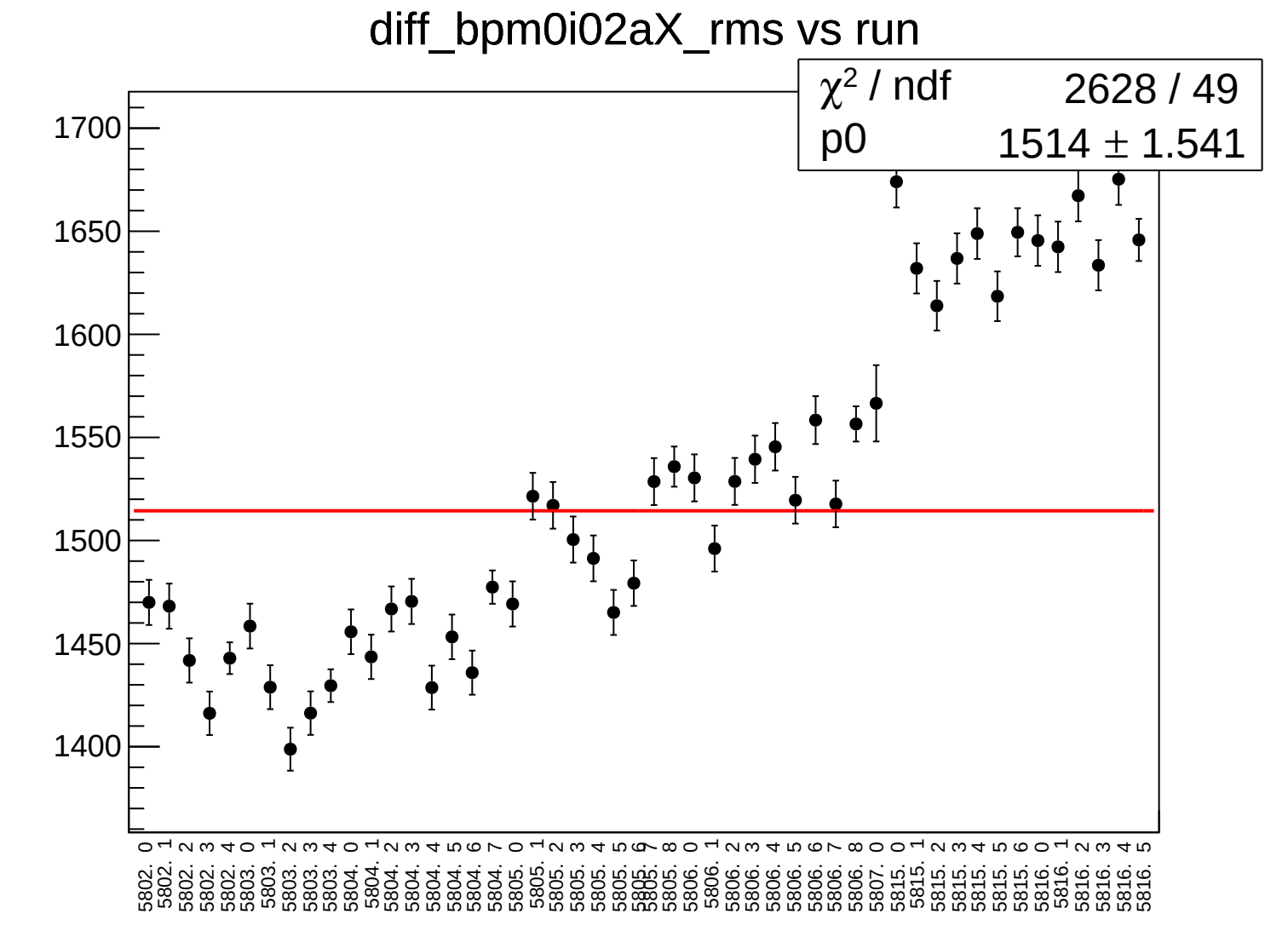
5816. 5


diff_bpm0i02aX_mean vs run
χ² / ndf 65.59 / 49
p0 −113.7 ± 2.18
pull
Entries 50
Mean 932.8
Std Dev 904.9


pull1D
Entries 50
Mean 0.005113
Std Dev 1.145


diff_bpm0i02aX_rms vs run
χ² / ndf 2628 / 49
p0 1514 ± 1.541
1700
1650
1600
1550
1500
1450
1400
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5804. 6
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5806. 0
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5806. 8
5807. 0
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5815. 2
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5815. 5
5815. 6
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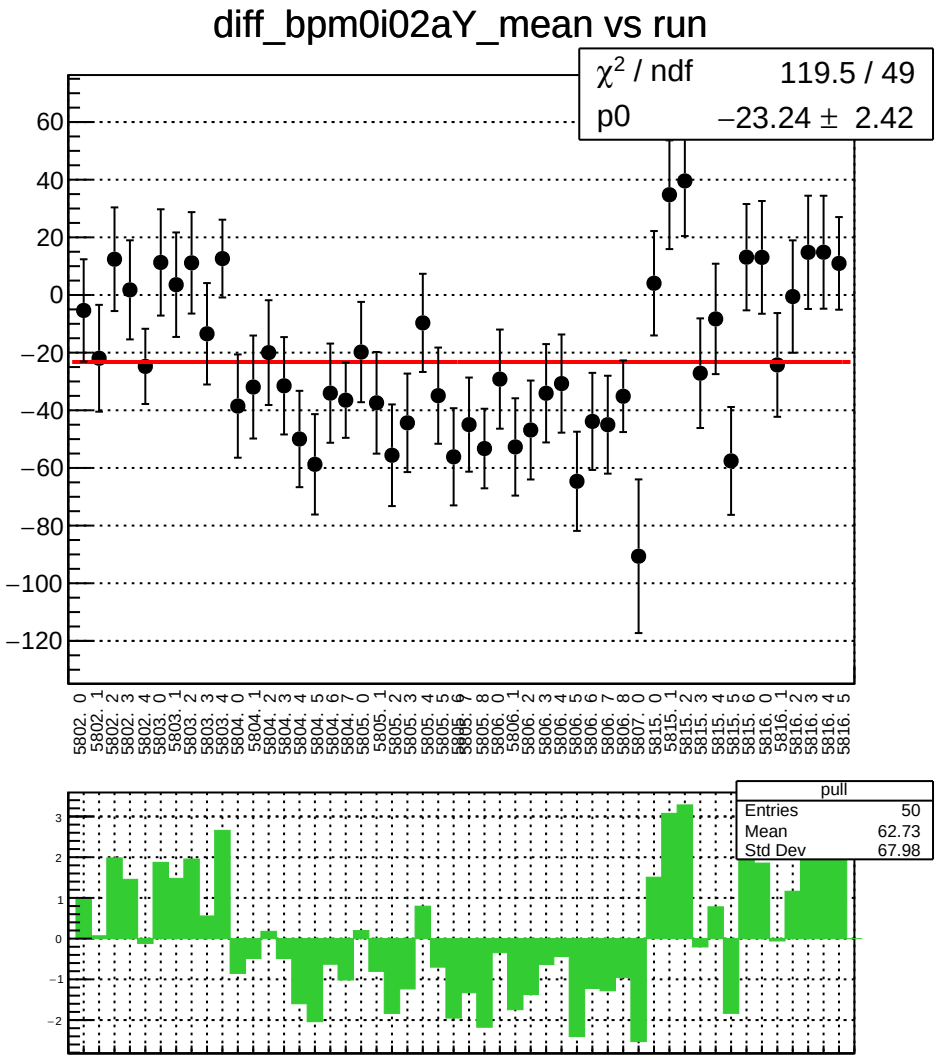
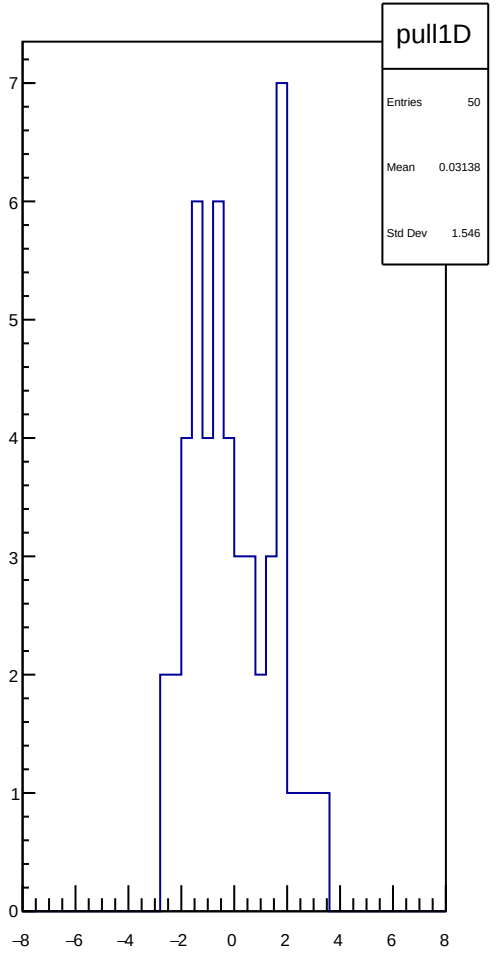
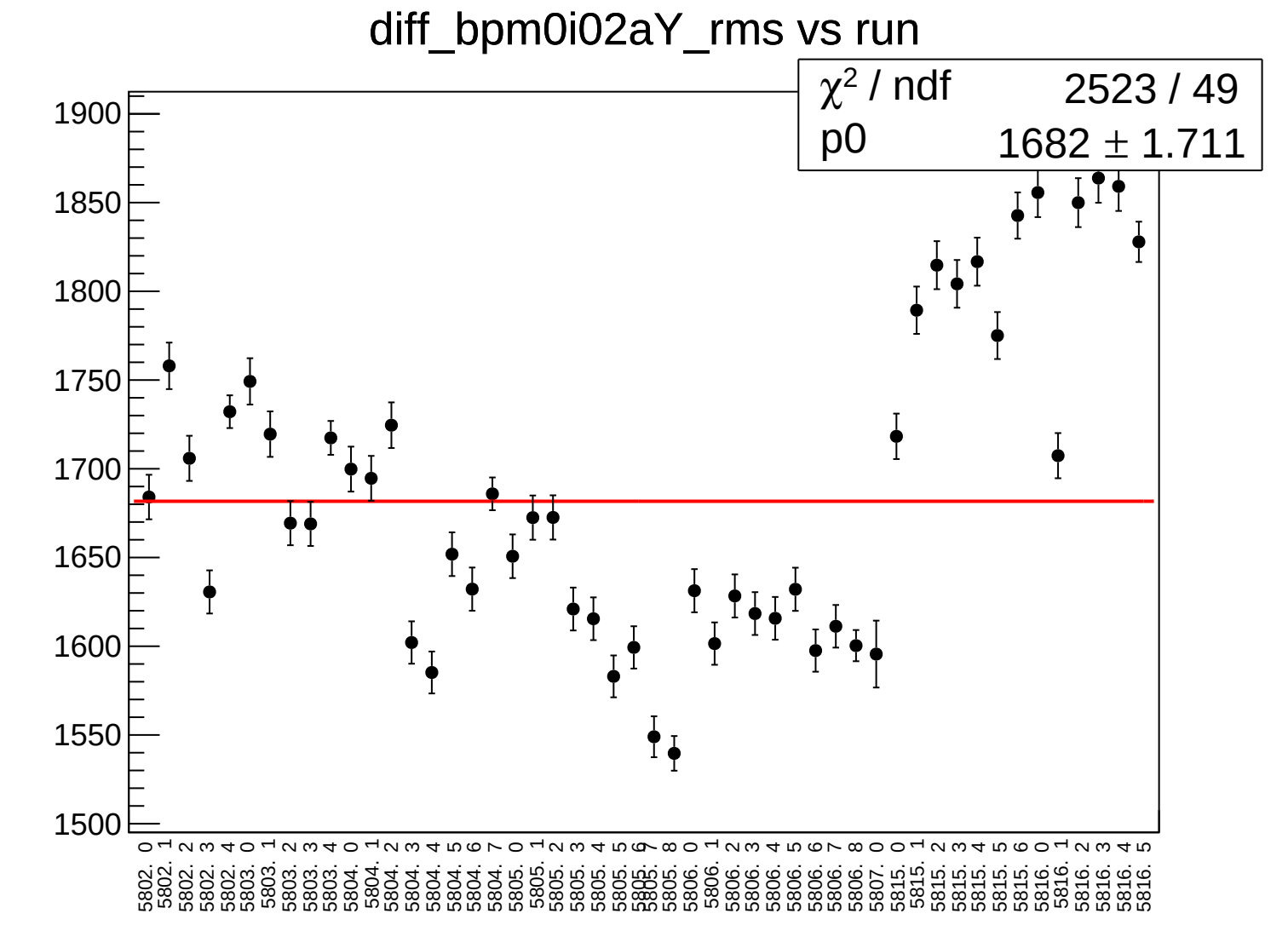
5816. 5


diff_bpm0i02aY_mean vs run
χ² / ndf 119.5 / 49
p0 −23.24 ± 2.42
pull
Entries 50
Mean 62.73
Std Dev 67.98


pull1D
Entries 50
Mean 0.03138
Std Dev 1.546


diff_bpm0i02aY_rms vs run
χ² / ndf 2523 / 49
p0 1682 ± 1.711
1900
1850
1800
1750
1700
1650
1600
1550
1500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 3
5803. 4
5804. 0
5804. 1
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5804. 5
5804. 6
5804. 7
5805. 0
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5805. 7
5805. 8
5806. 0
5806. 1
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5806. 8
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5815. 6
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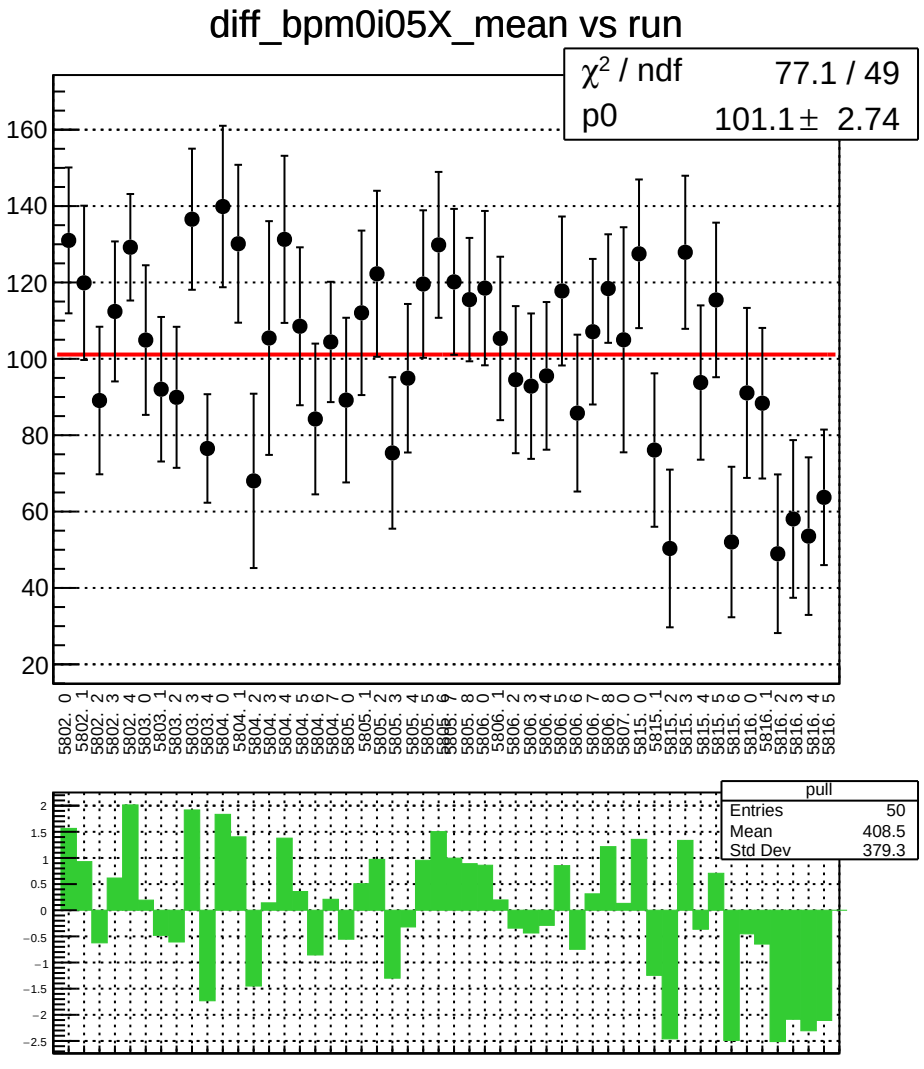
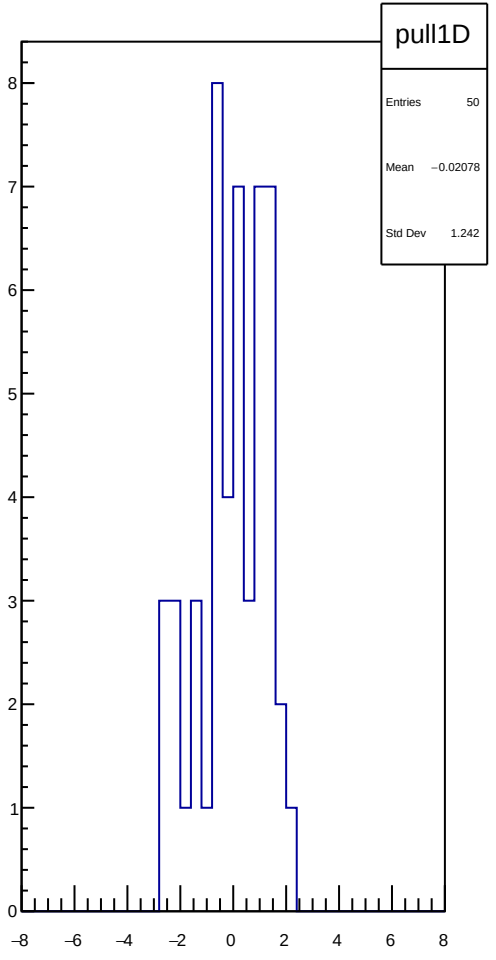
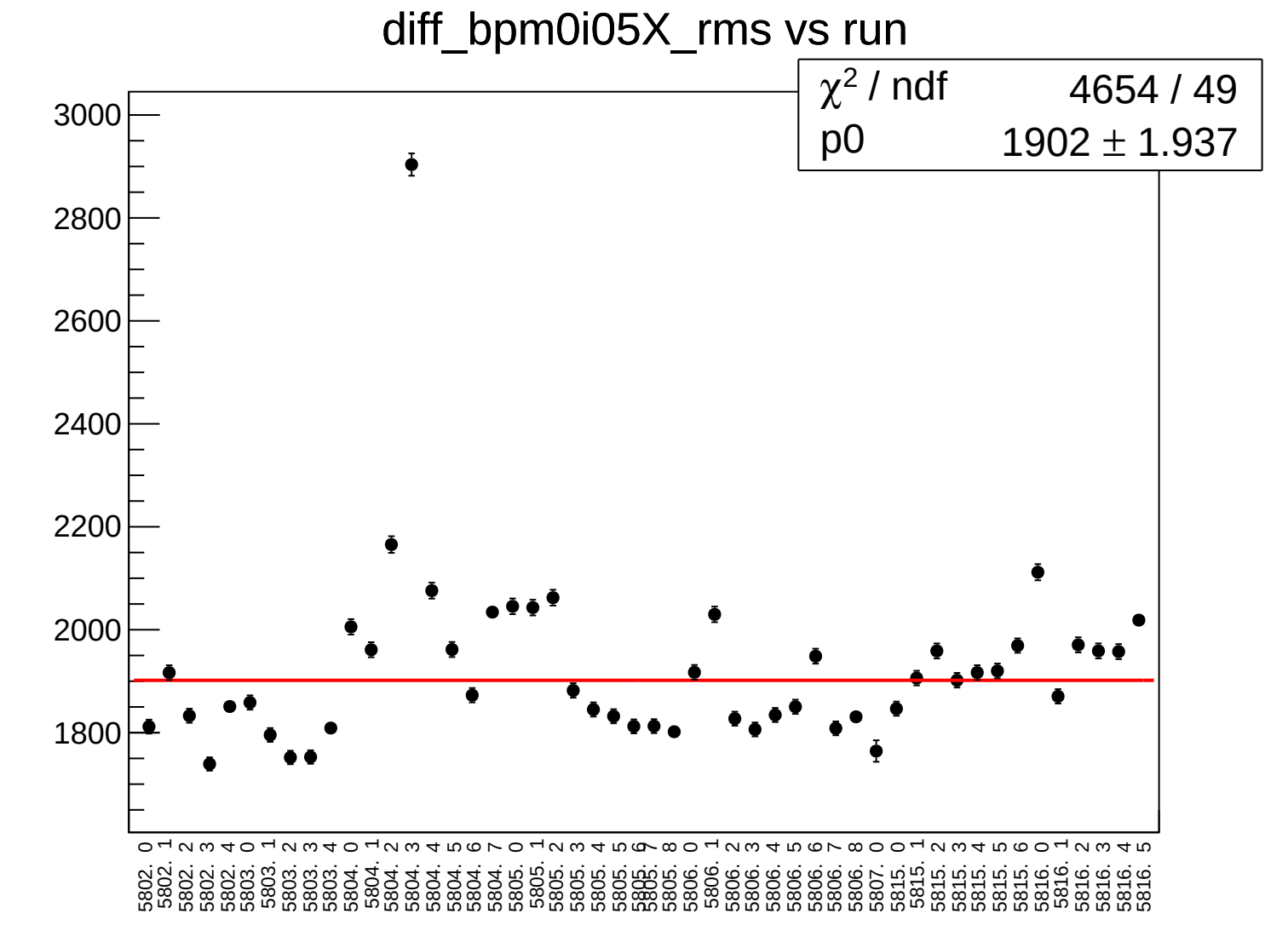
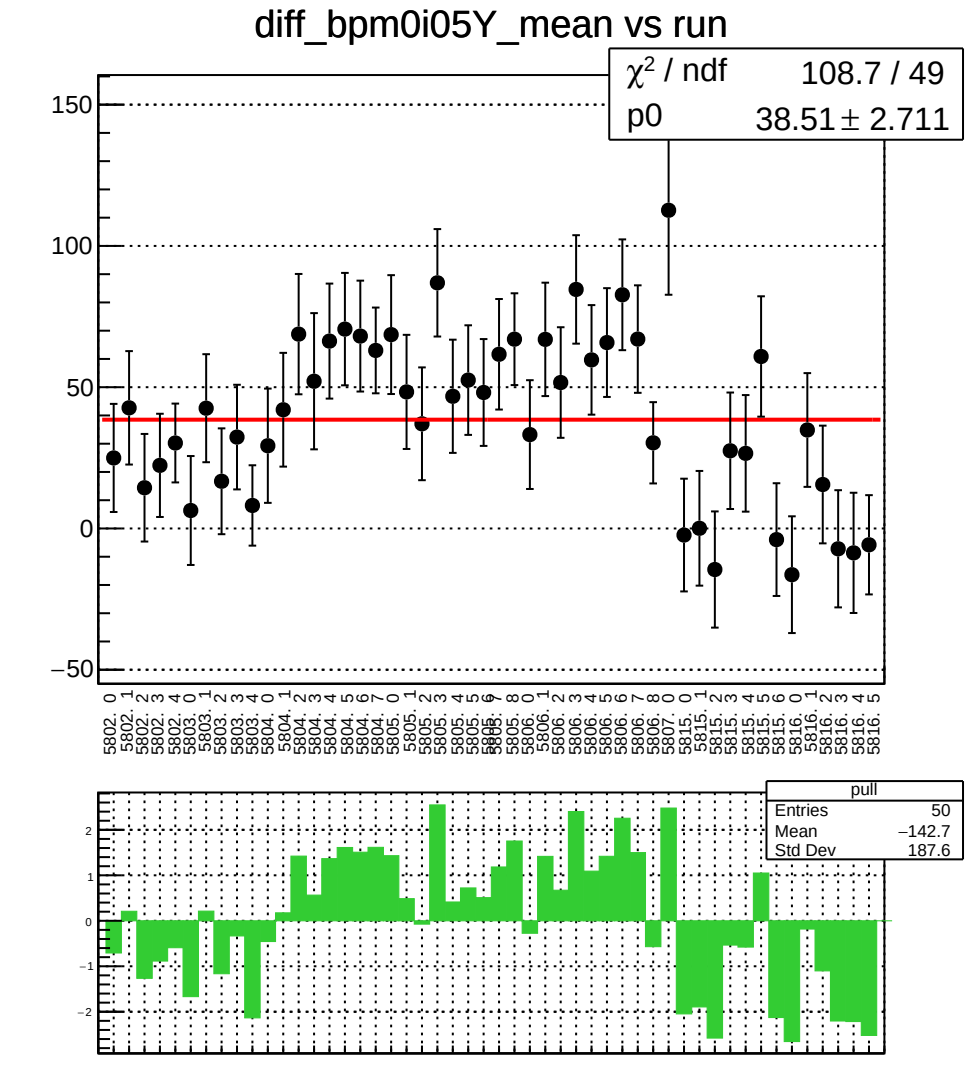
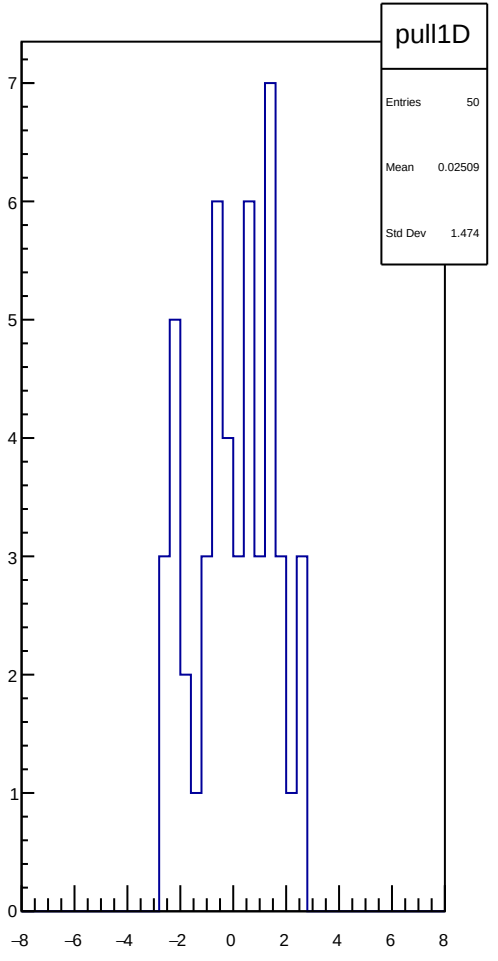
5816. 5

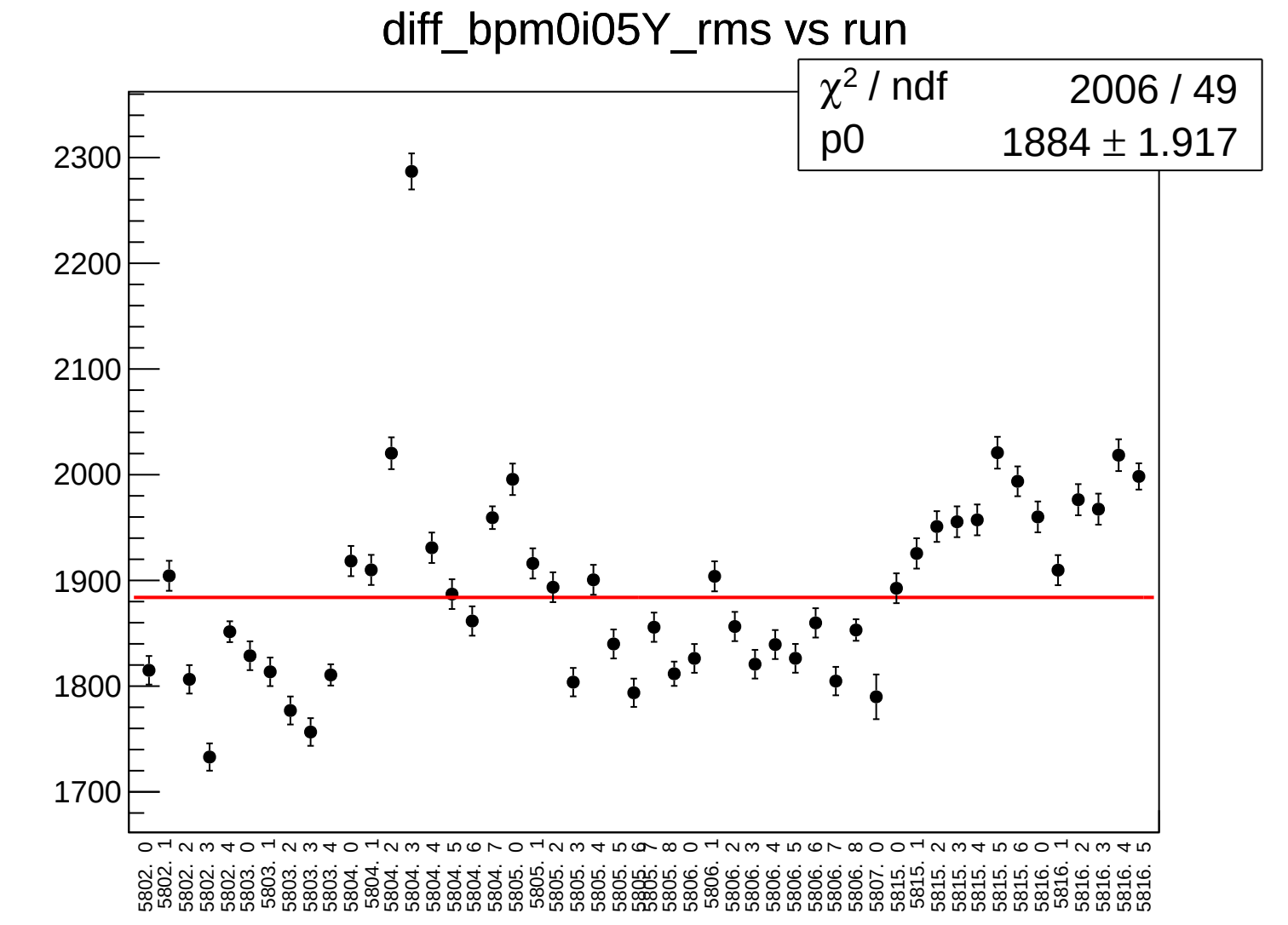

diff_bpm0i05X_mean vs run
χ² / ndf 77.1 / 49
p0 101.1 ± 2.74
pull
Entries 50
Mean 408.5
Std Dev 379.3

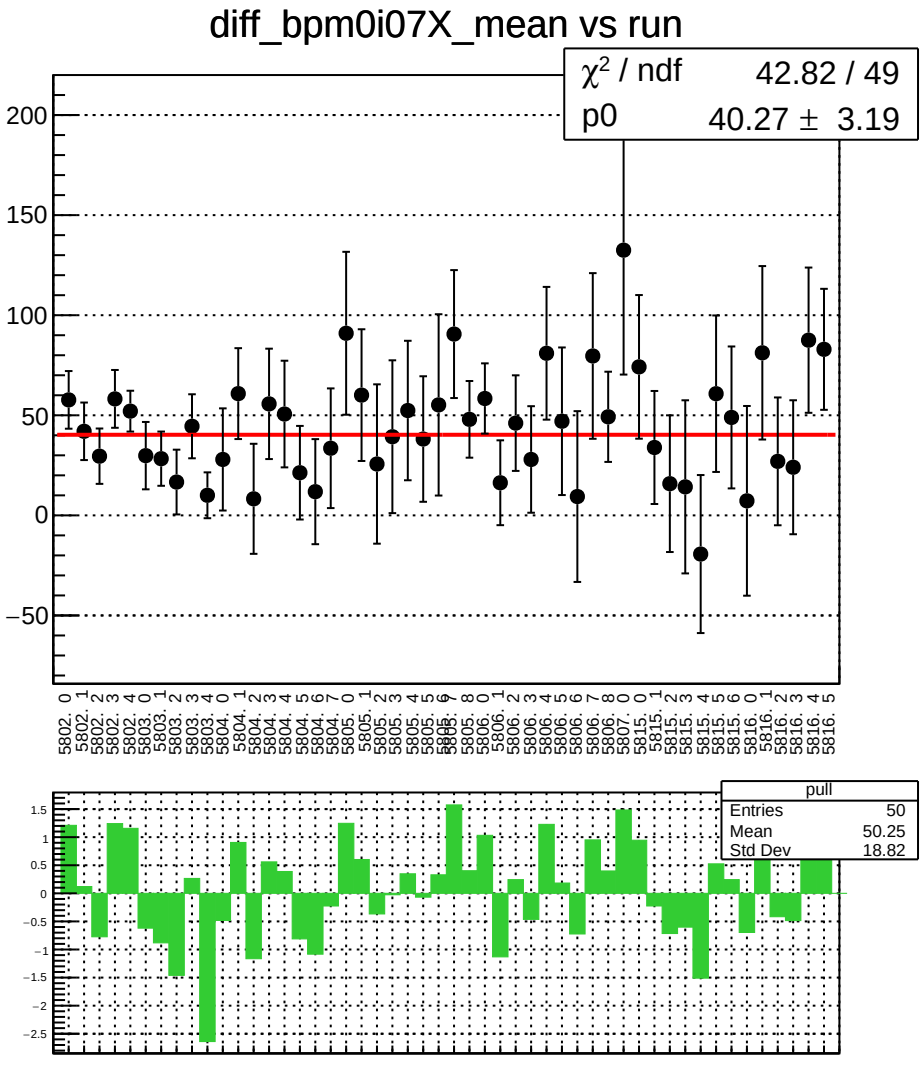

pull1D
Entries 50
Mean −0.02078
Std Dev 1.242

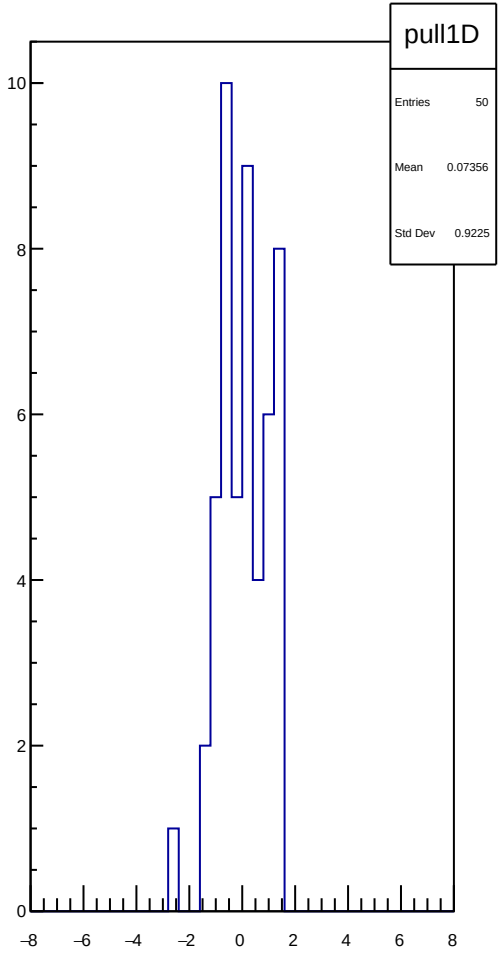

diff_bpm0i05X_rms vs run
χ² / ndf 4654 / 49
p0 1902 ± 1.937
3000
2800
2600
2400
2200
2000
1800
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

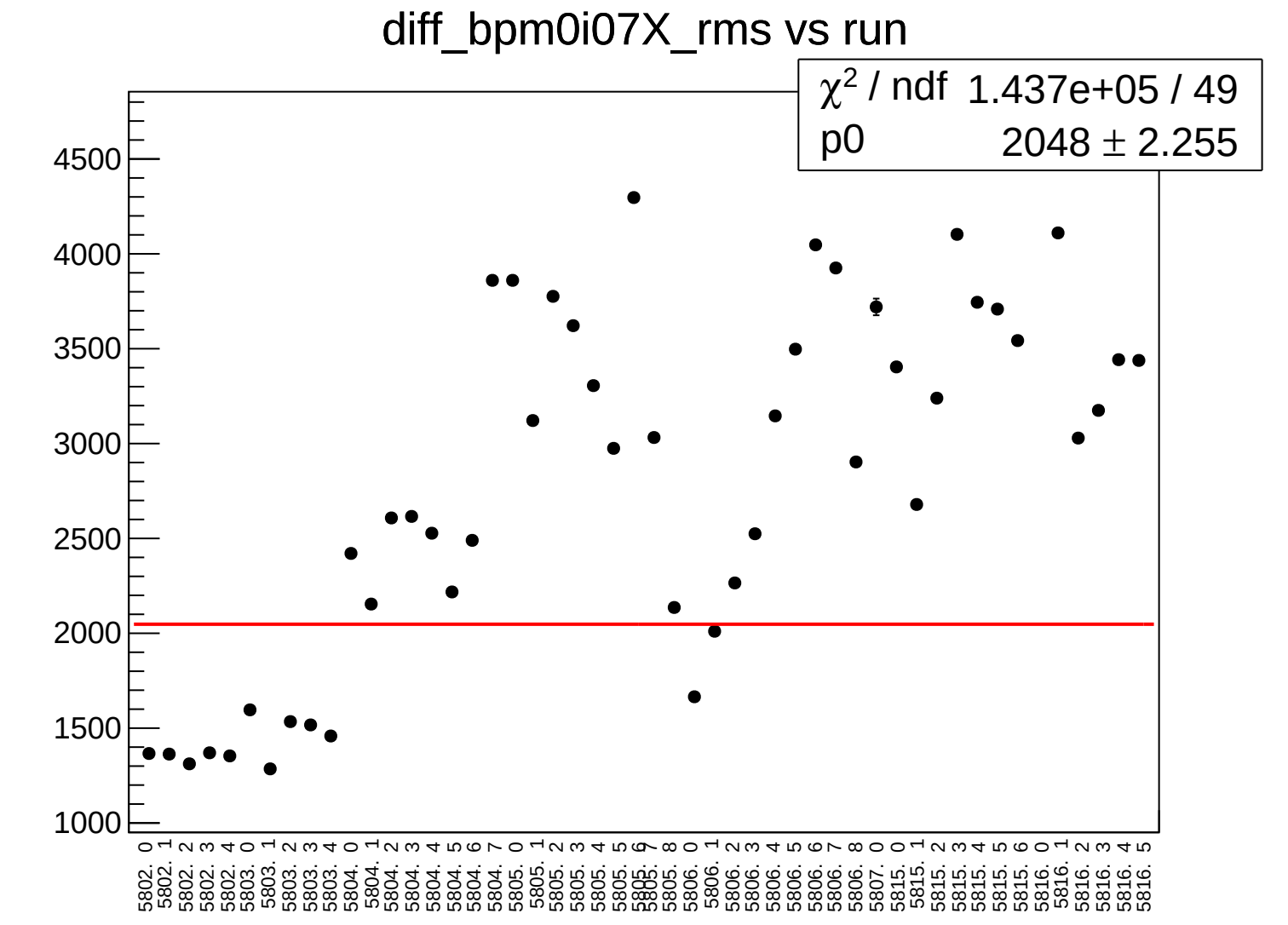

diff_bpm0i05Y_mean vs run
χ² / ndf 108.7 / 49
p0 38.51 ± 2.711
150
100
50
0
−50
pull
Entries 50
Mean −142.7
Std Dev 187.6
2
1
0
−1
−2

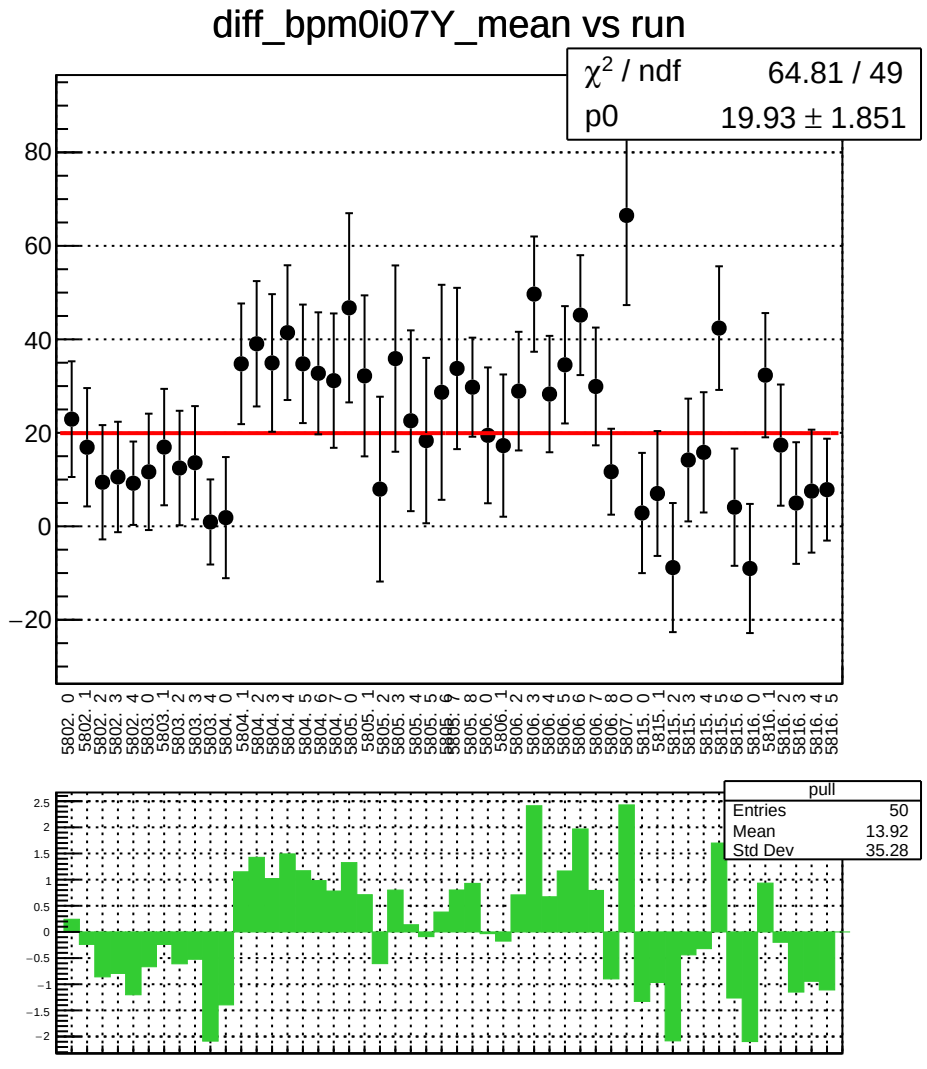

pull1D
Entries 50
Mean 0.02509
Std Dev 1.474
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

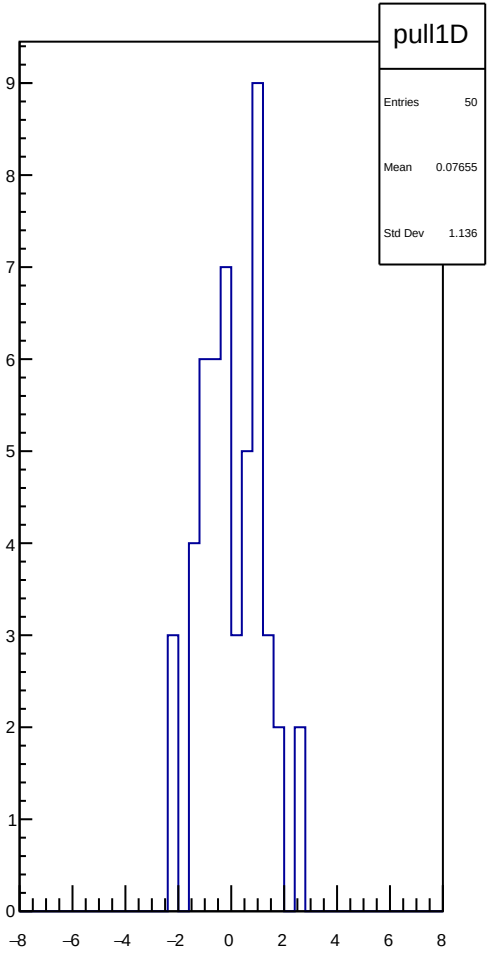

diff_bpm0i05Y_rms vs run
χ² / ndf 2006 / 49
p0 1884 ± 1.917
2300
2200
2100
2000
1900
1800
1700
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

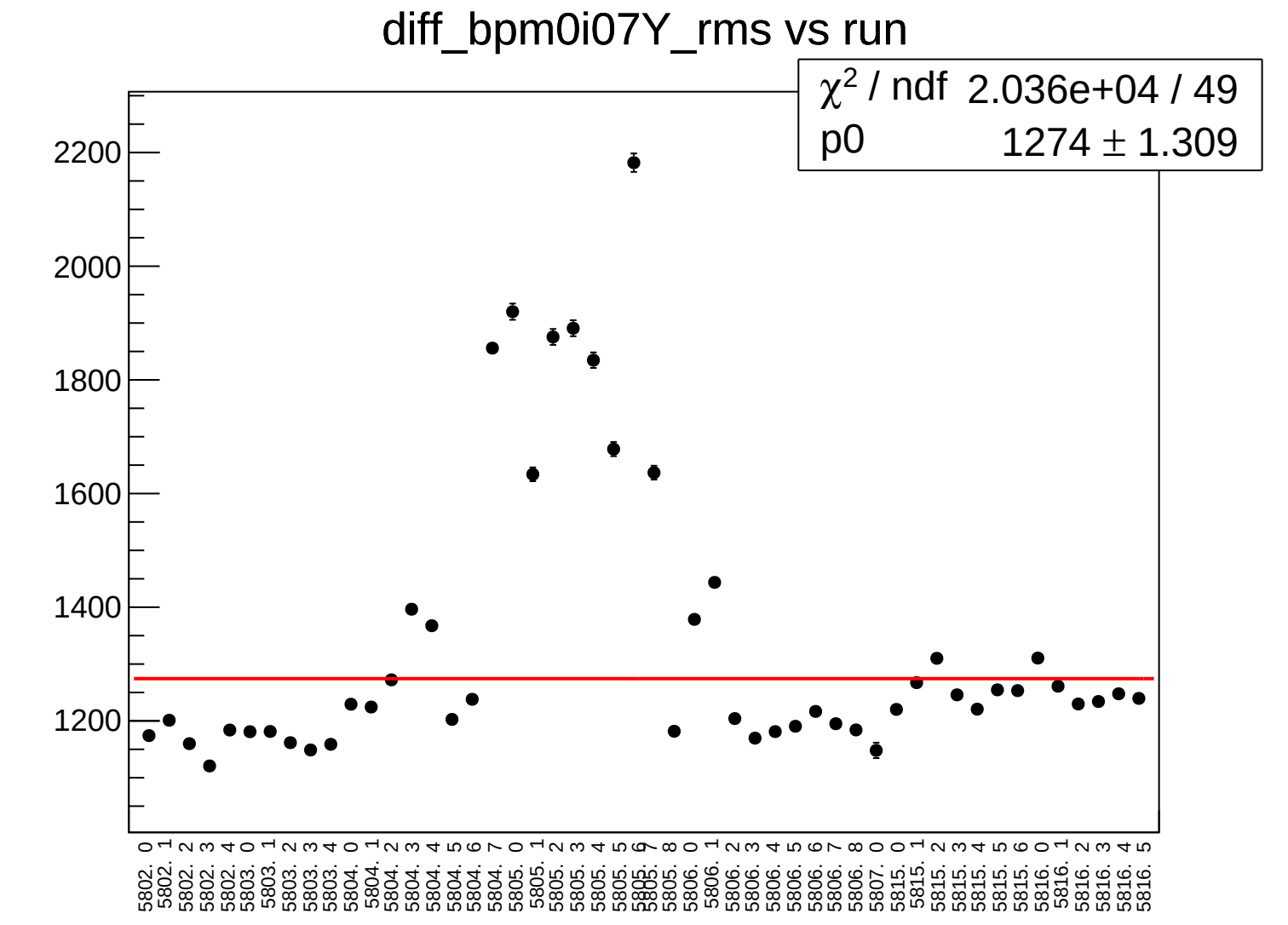

diff_bpm0i07X_mean vs run
χ² / ndf 42.82 / 49
p0 40.27 ± 3.19
pull
Entries 50
Mean 50.25
Std Dev 18.82

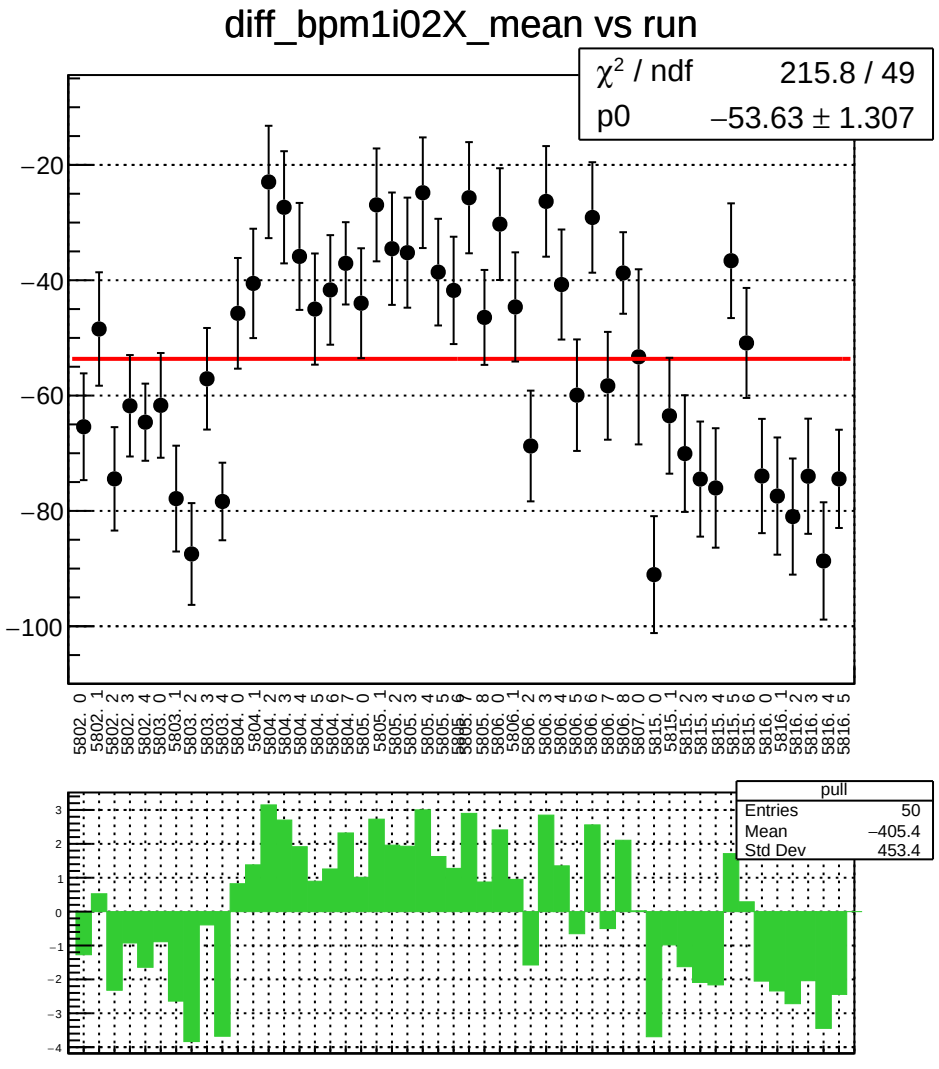

pull1D
Entries 50
Mean 0.07356
Std Dev 0.9225

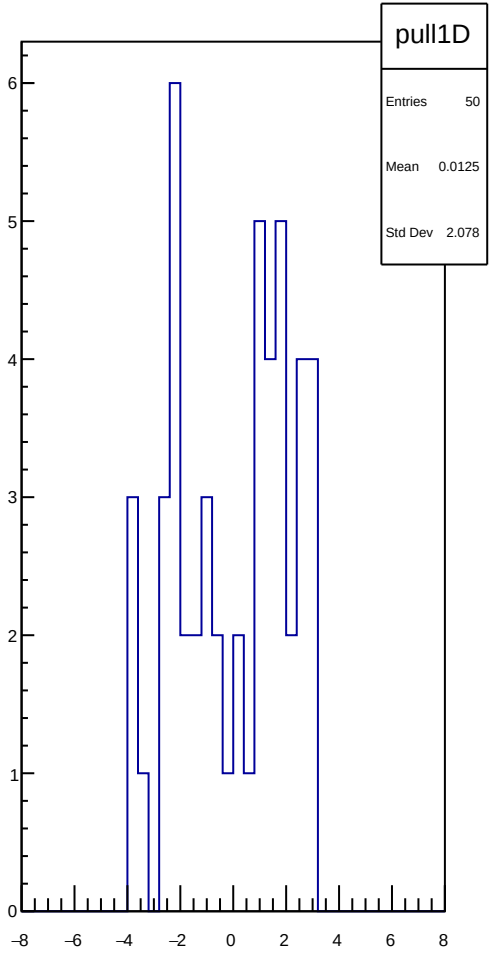

diff_bpm0i07X_rms vs run
χ² / ndf 1.437e+05 / 49
p0 2048 ± 2.255
4500
4000
3500
3000
2500
2000
1500
1000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

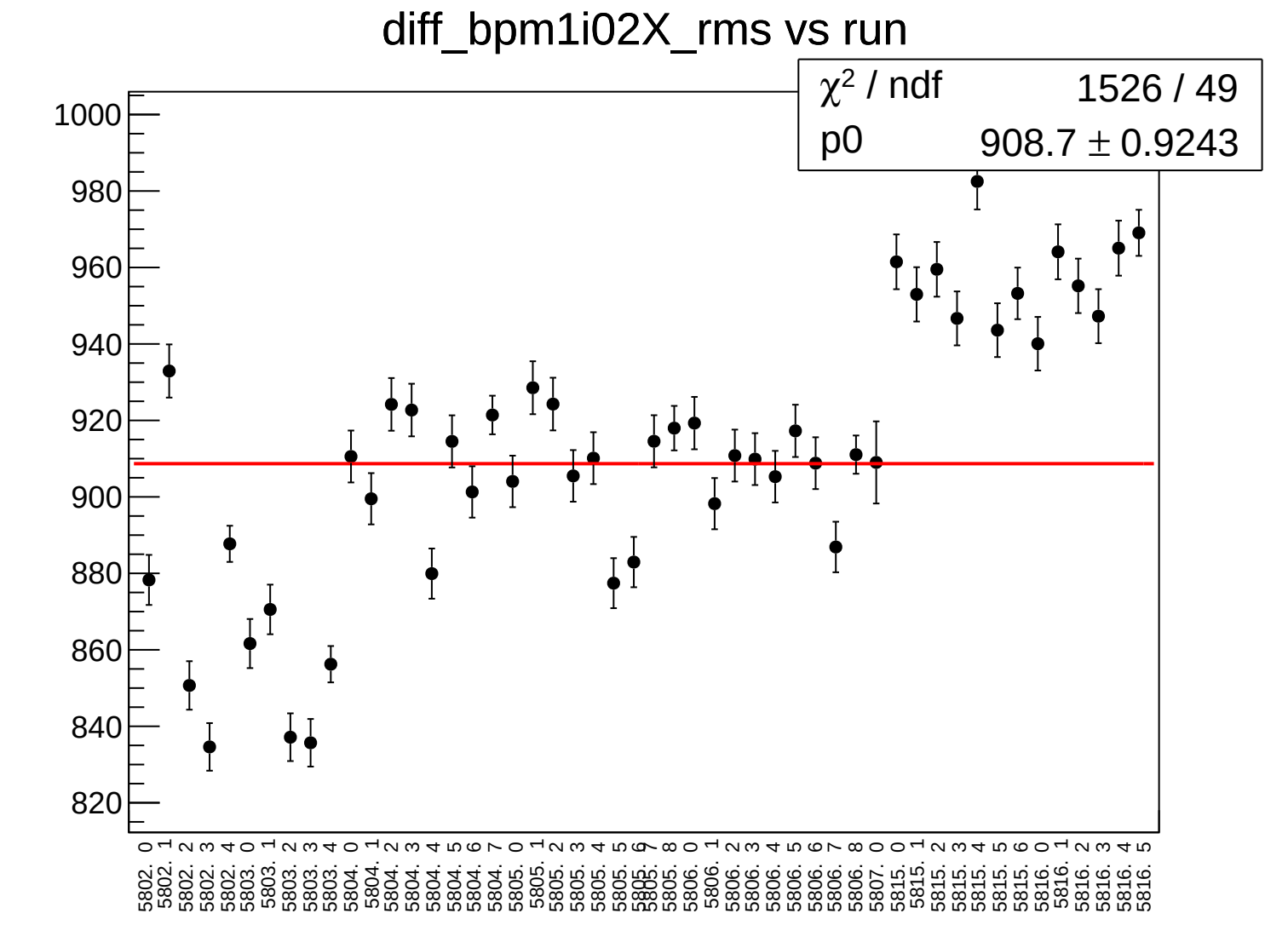

diff_bpm0i07Y_mean vs run
χ^2 / ndf 64.81 / 49
p0 19.93 ± 1.851
pull
Entries 50
Mean 13.92
Std Dev 35.28

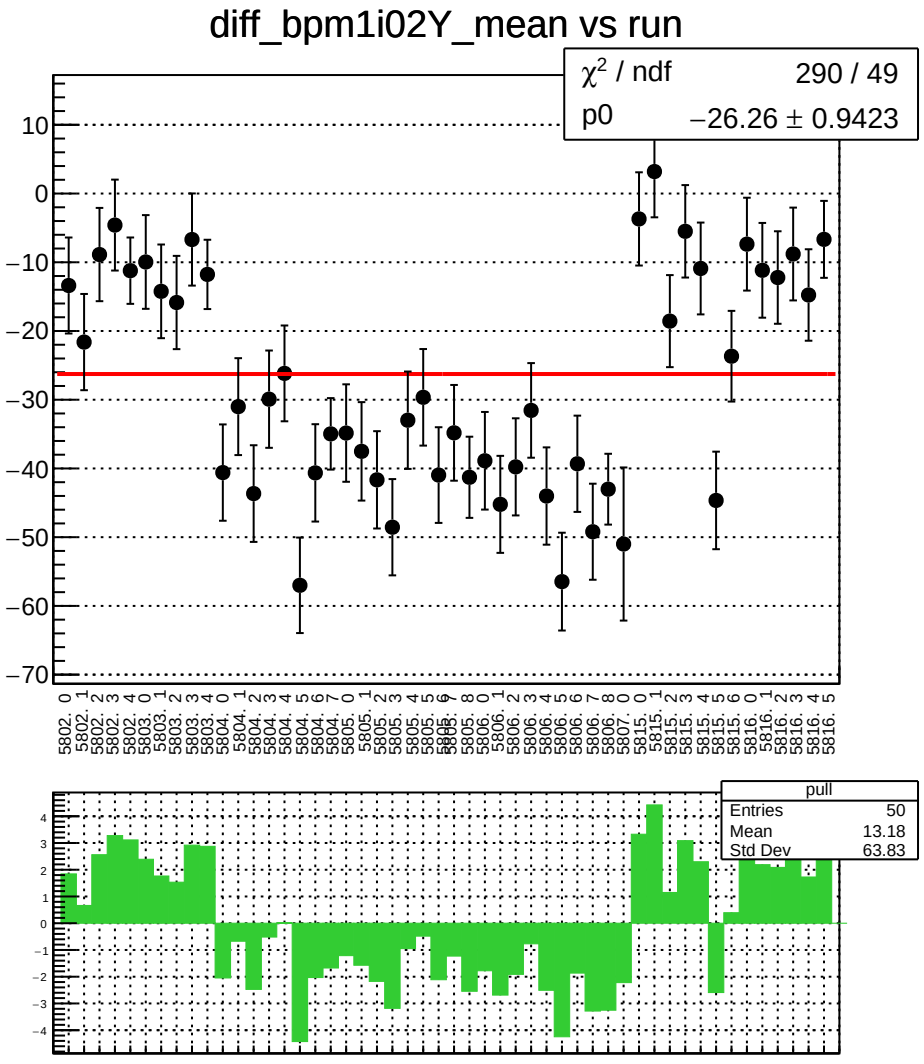

pull1D
Entries 50
Mean 0.07655
Std Dev 1.136

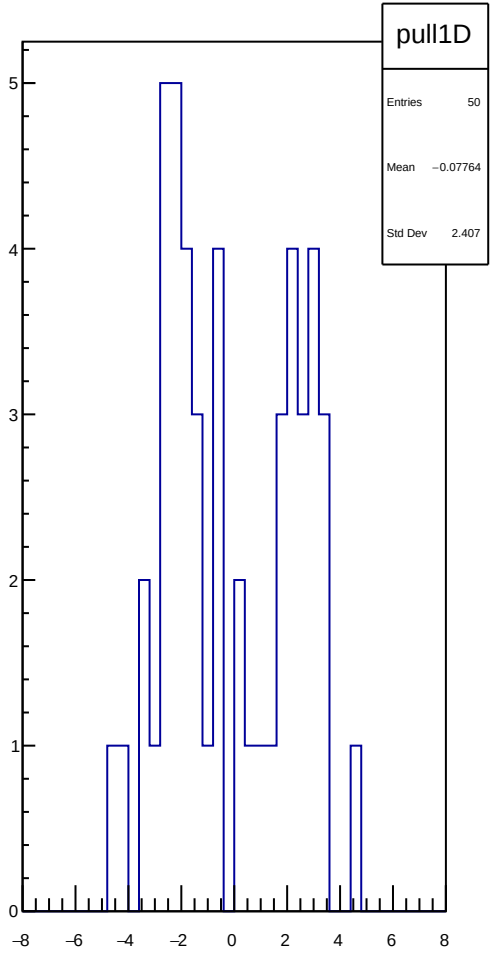

diff_bpm0i07Y_rms vs run
χ² / ndf 2.036e+04 / 49
p0 1274 ± 1.309
2200
2000
1800
1600
1400
1200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

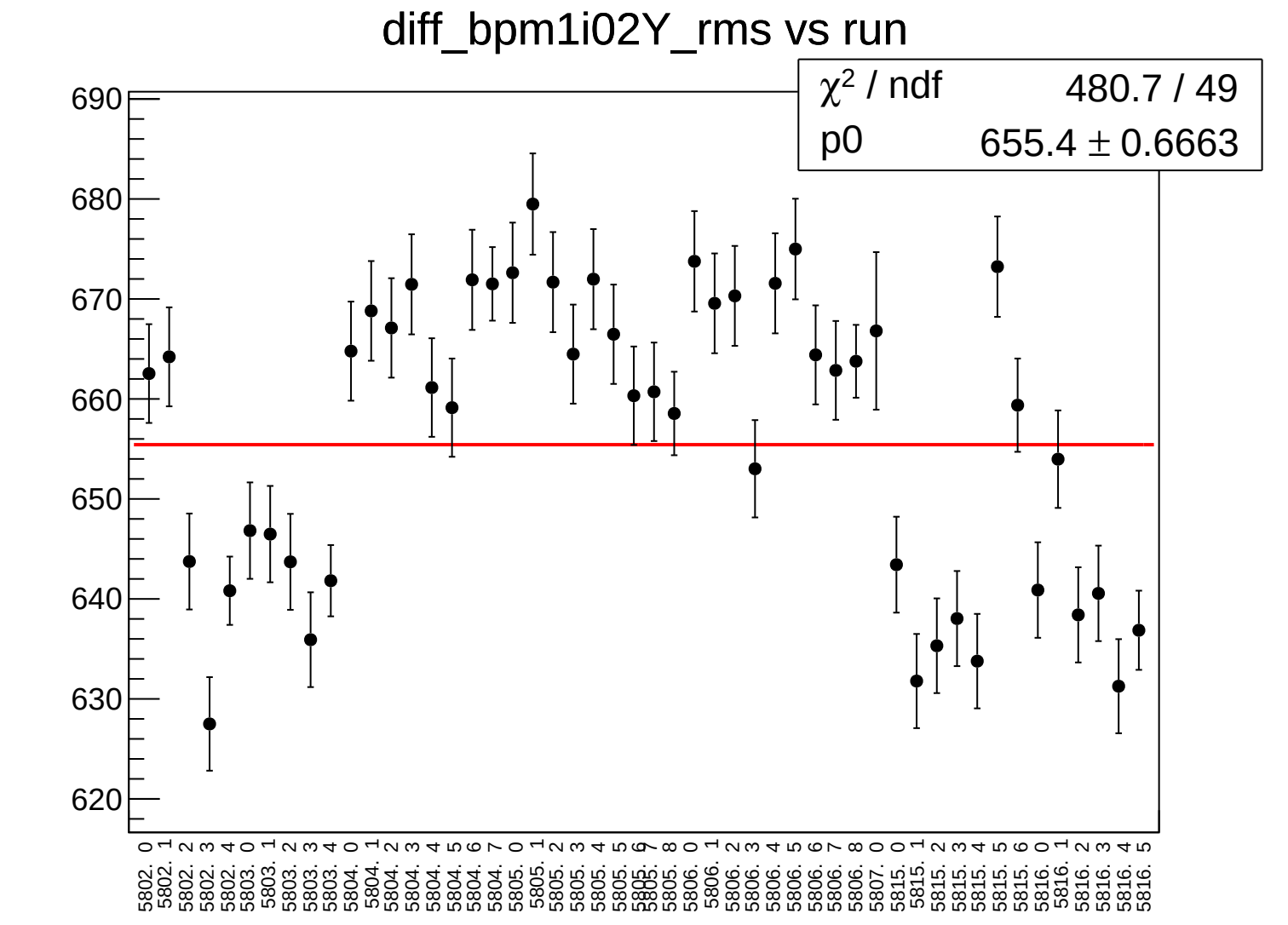

diff_bpm1i02X_mean vs run
χ² / ndf 215.8 / 49
p0 −53.63 ± 1.307
pull
Entries 50
Mean −405.4
Std Dev 453.4

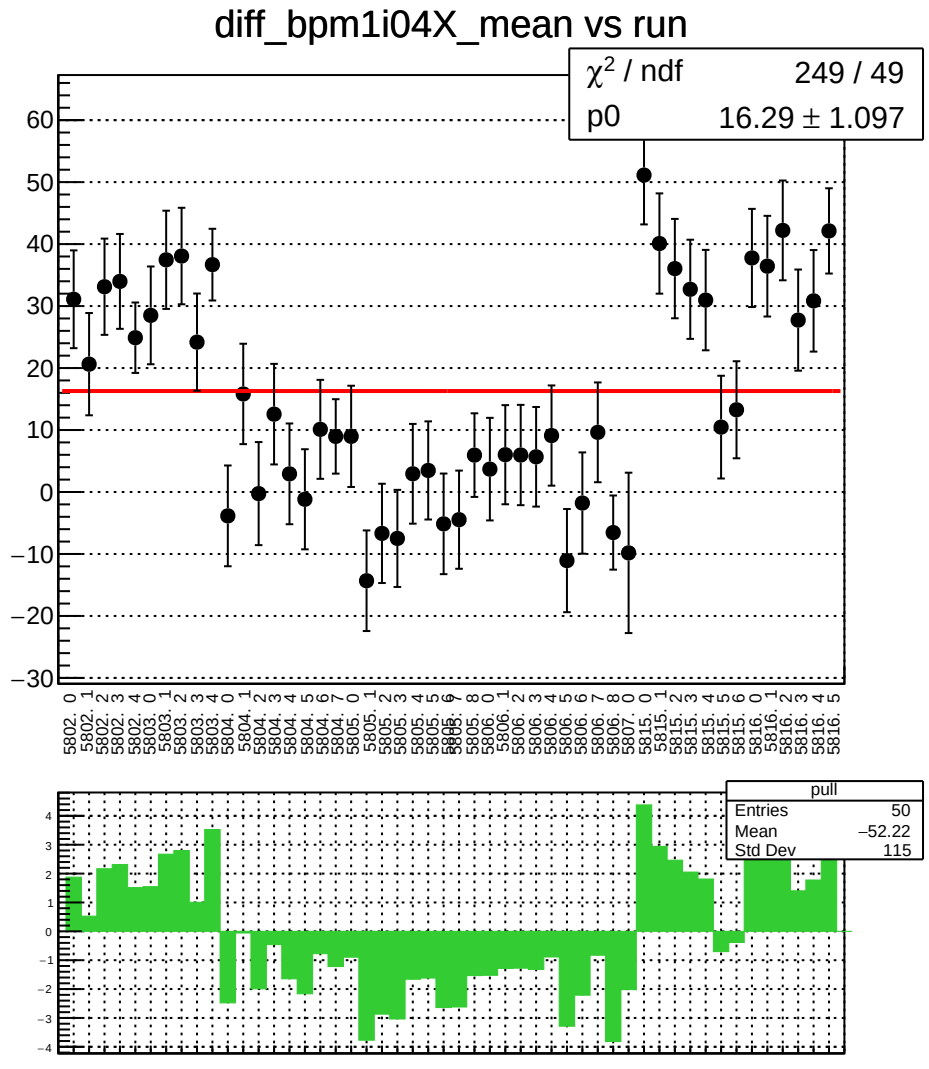

pull1D
Entries 50
Mean 0.0125
Std Dev 2.078

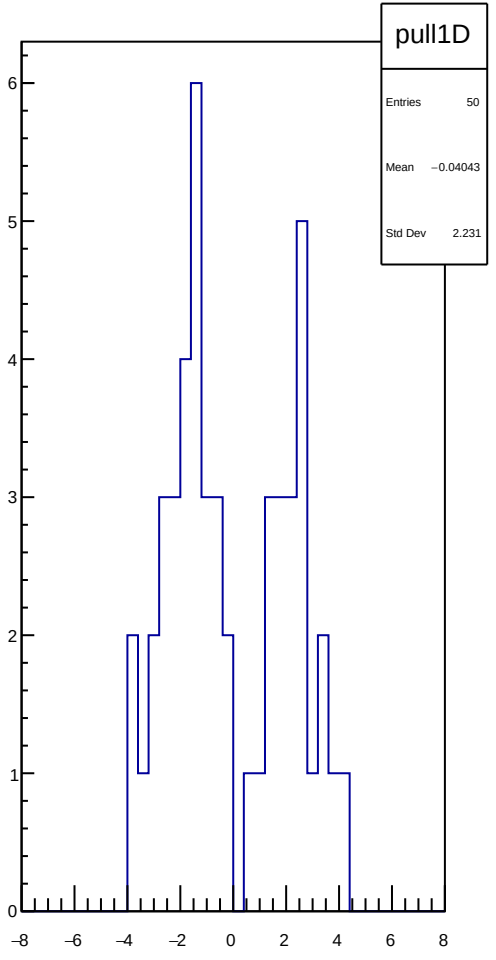

diff_bpm1i02X_rms vs run
χ² / ndf 1526 / 49
p0 908.7 ± 0.9243
1000
980
960
940
920
900
880
860
840
820
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

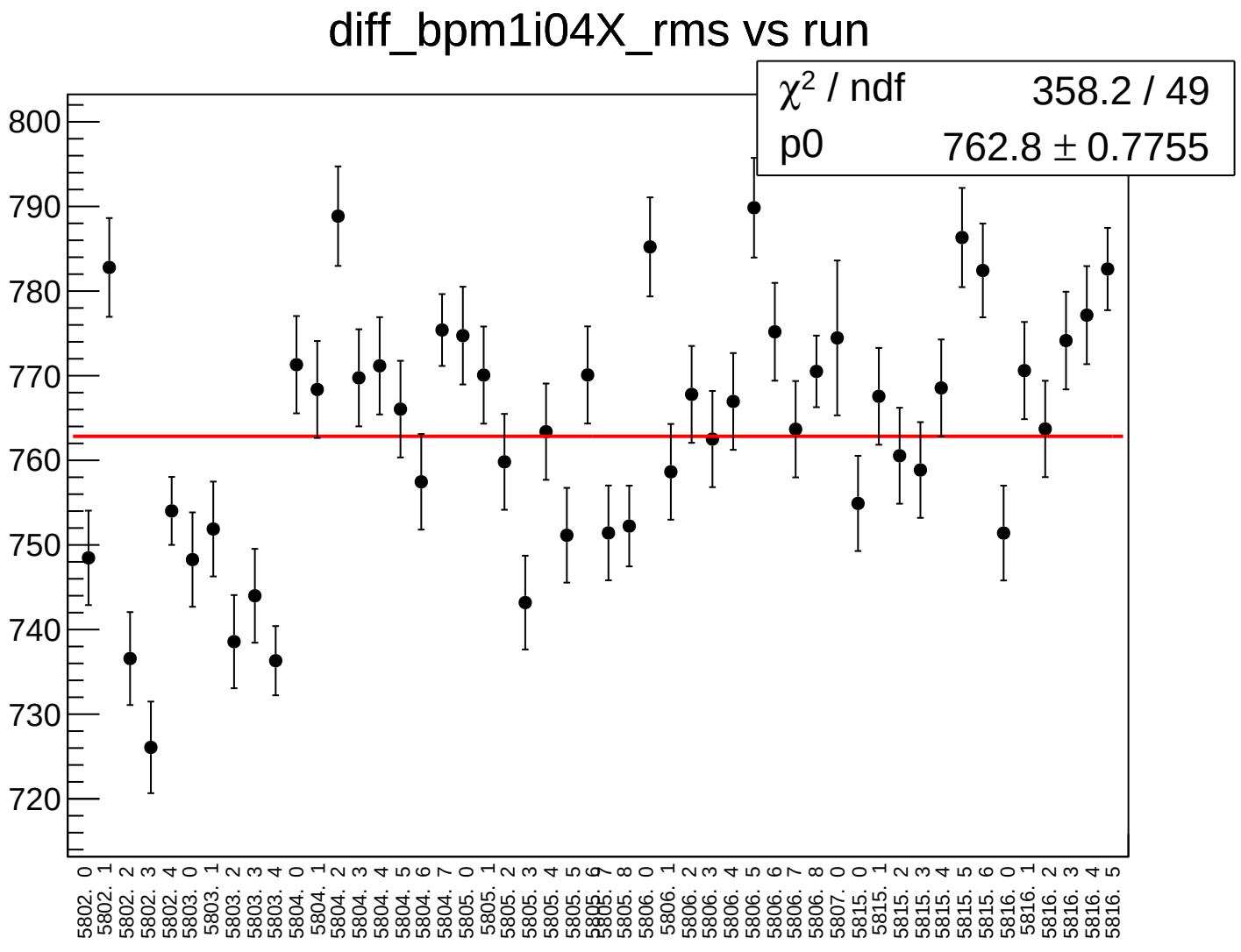

diff_bpm1i02Y_mean vs run
χ² / ndf 290 / 49
p0 −26.26 ± 0.9423
pull
Entries 50
Mean 13.18
Std Dev 63.83

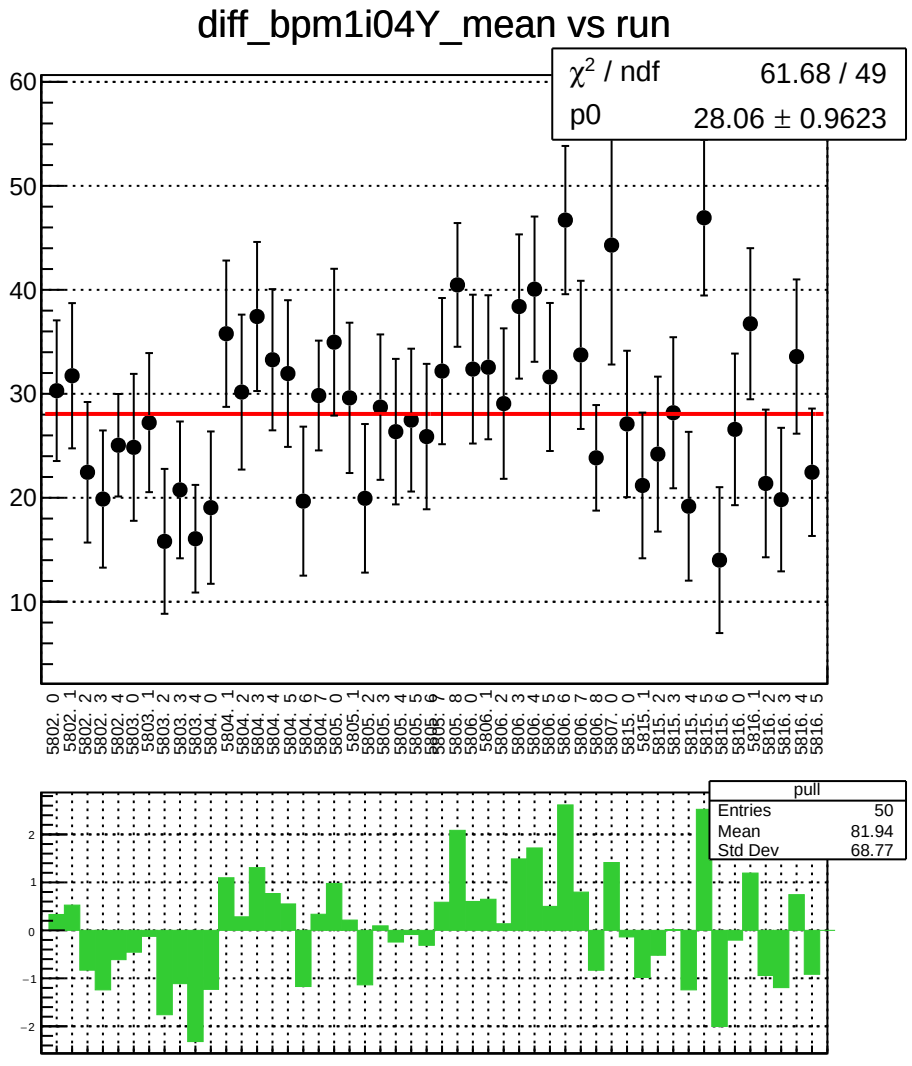

pull1D
Entries 50
Mean −0.07764
Std Dev 2.407

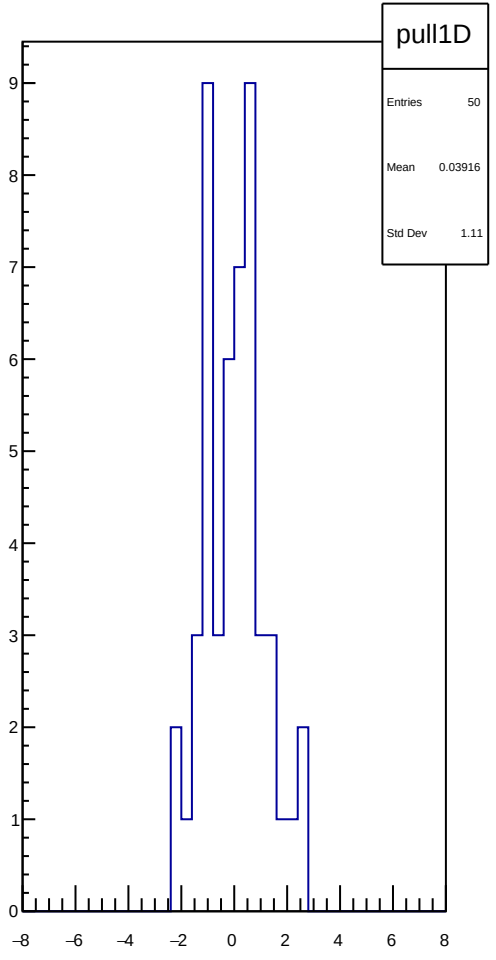

diff_bpm1i02Y_rms vs run
χ² / ndf 480.7 / 49
p0 655.4 ± 0.6663
690
680
670
660
650
640
630
620
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

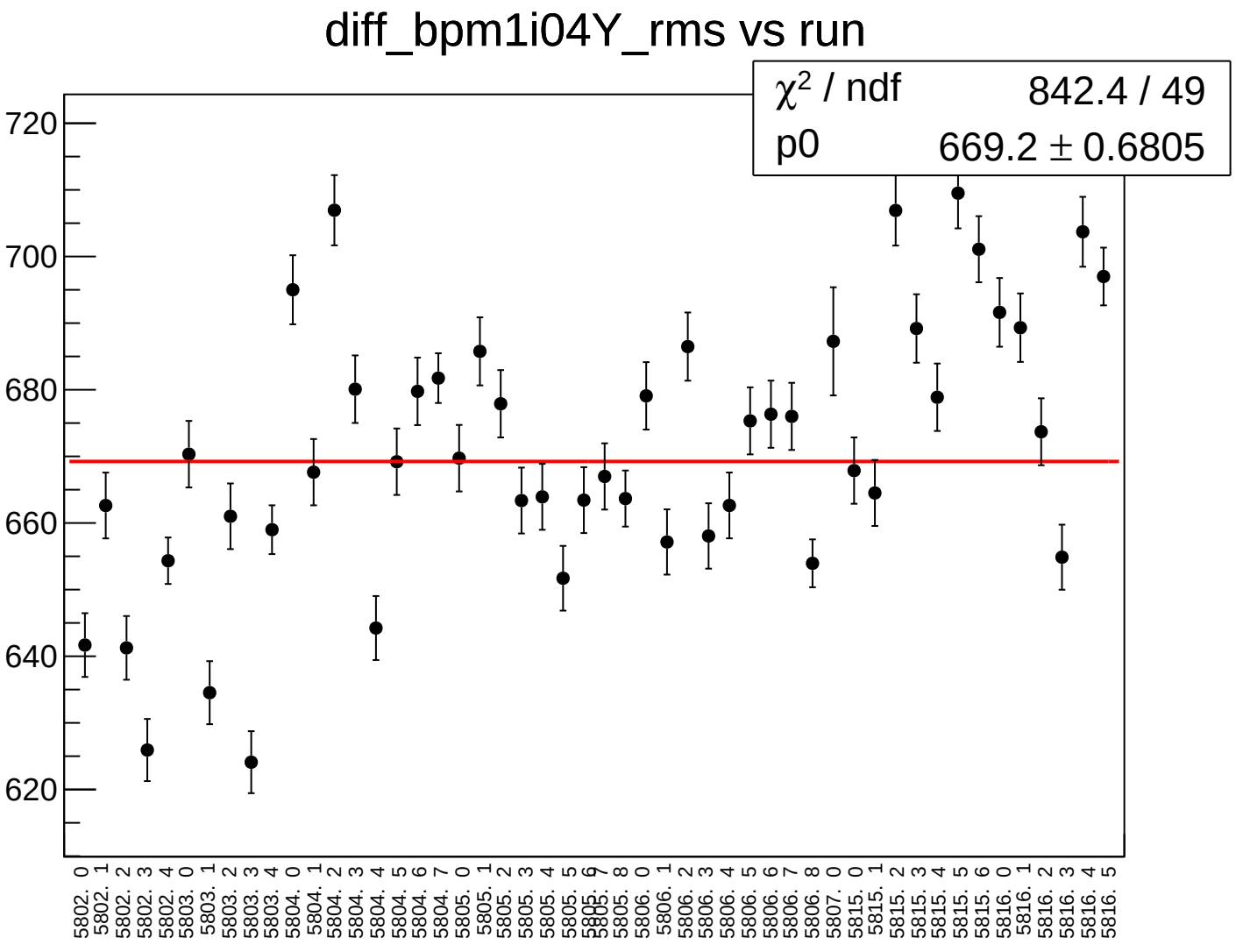

diff_bpm1i04X_mean vs run
χ² / ndf 249 / 49
p0 16.29 ± 1.097
pull
Entries 50
Mean −52.22
Std Dev 115


pull1D
Entries 50
Mean −0.04043
Std Dev 2.231


diff_bpm1i04X_rms vs run
χ² / ndf 358.2 / 49
p0 762.8 ± 0.7755
800
790
780
770
760
750
740
730
720
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm1i04Y_mean vs run
χ² / ndf 61.68 / 49
p0 28.06 ± 0.9623
pull
Entries 50
Mean 81.94
Std Dev 68.77


pull1D
Entries 50
Mean 0.03916
Std Dev 1.11


diff_bpm1i04Y_rms vs run
χ² / ndf 842.4 / 49
p0 669.2 ± 0.6805
720
700
680
660
640
620
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
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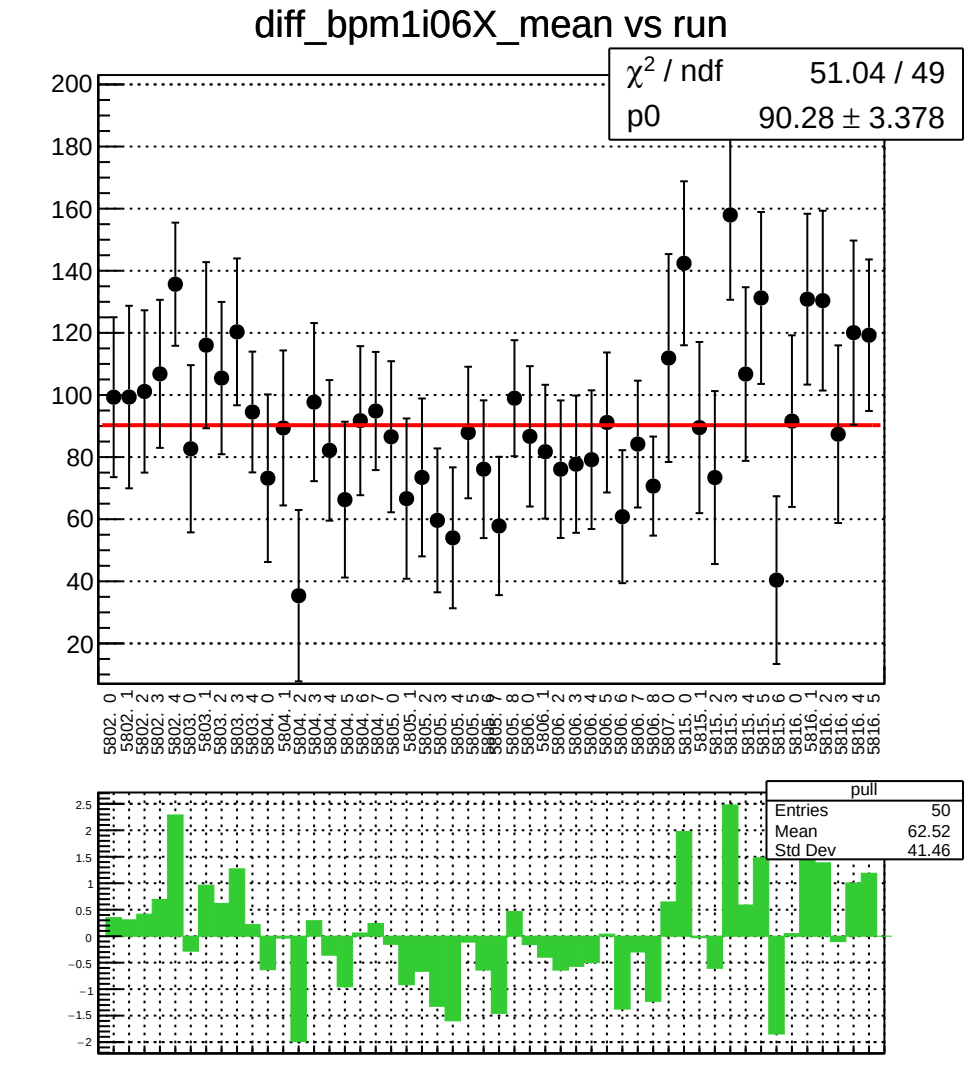
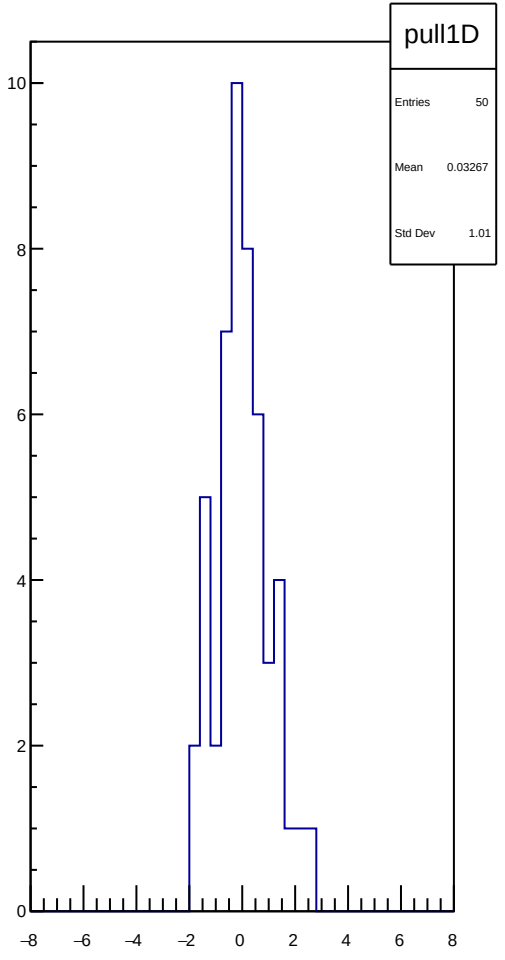
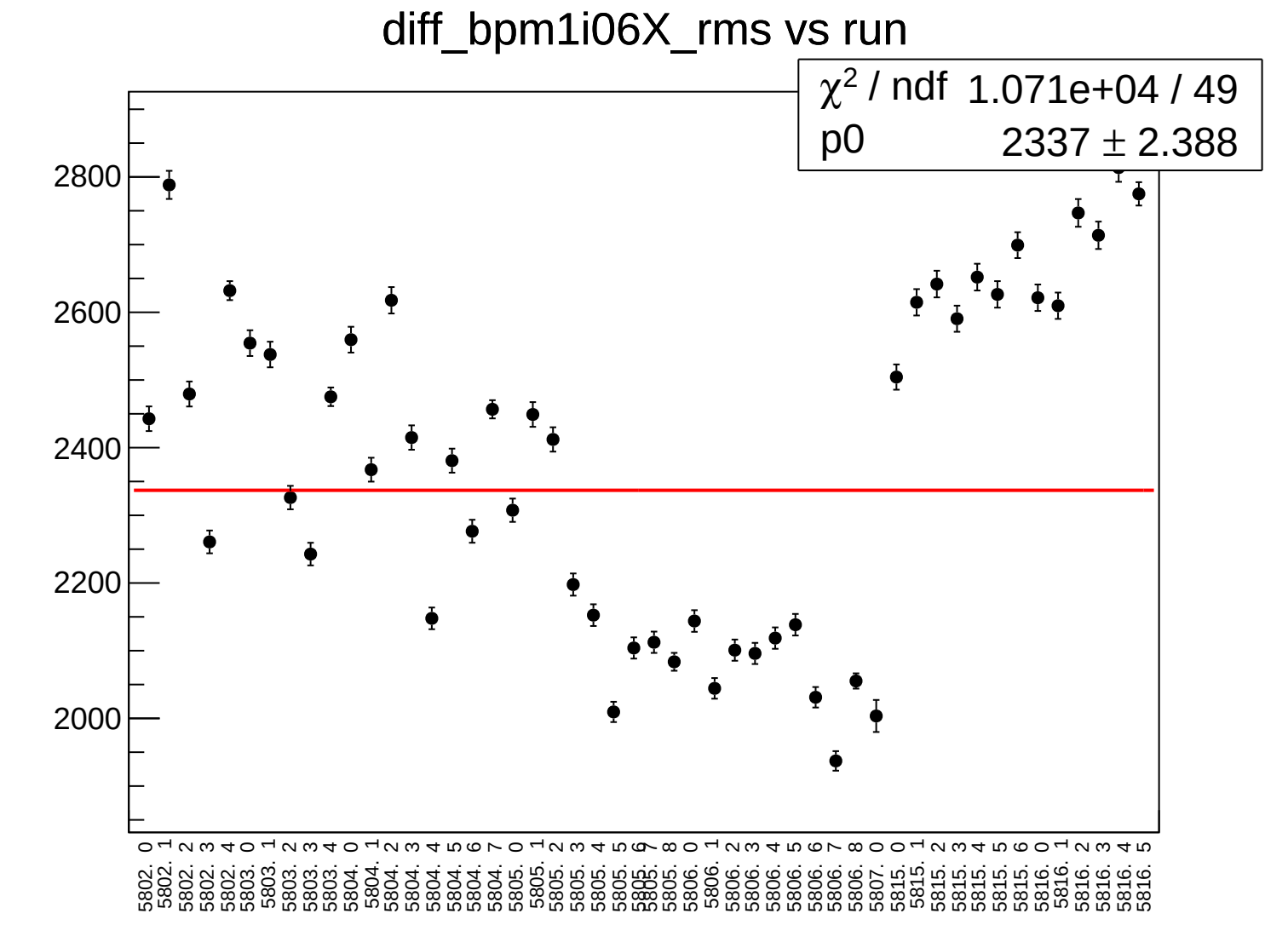
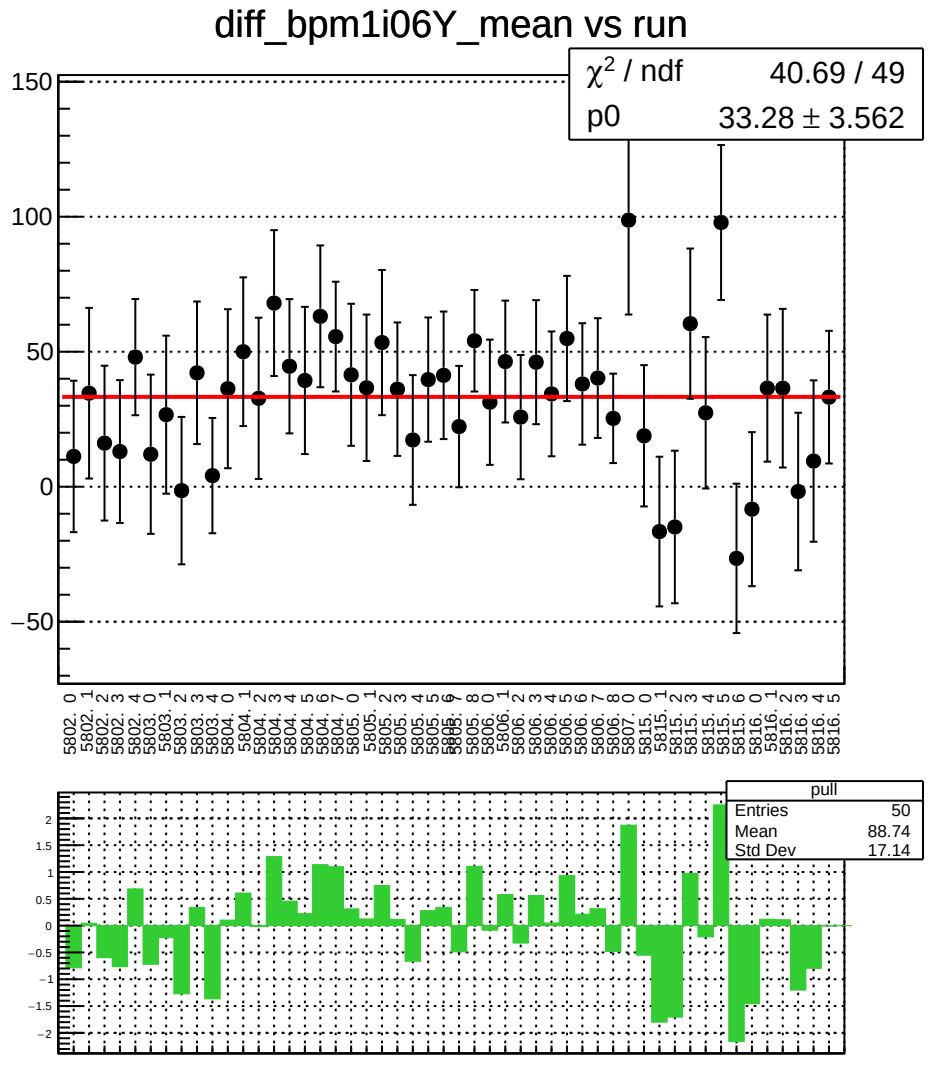
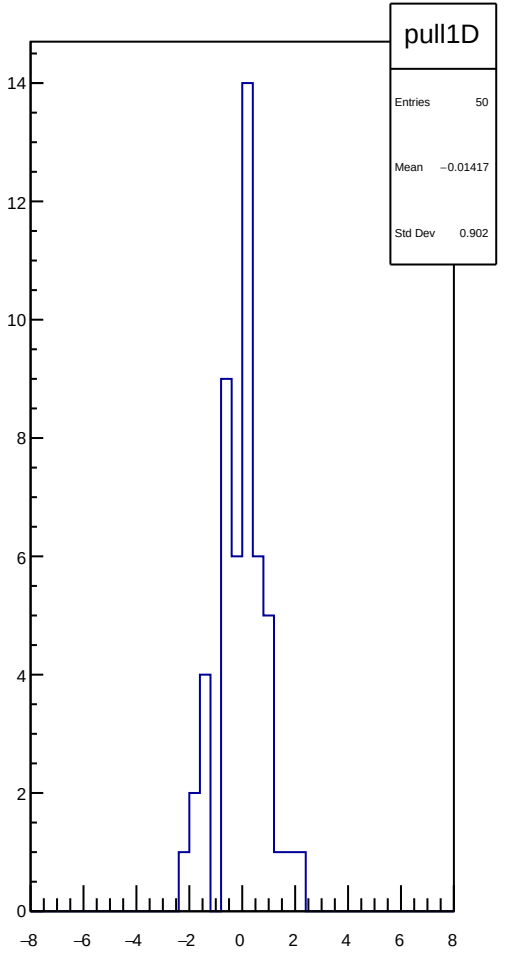
5816. 2
5816. 3
5816. 4
5816. 5

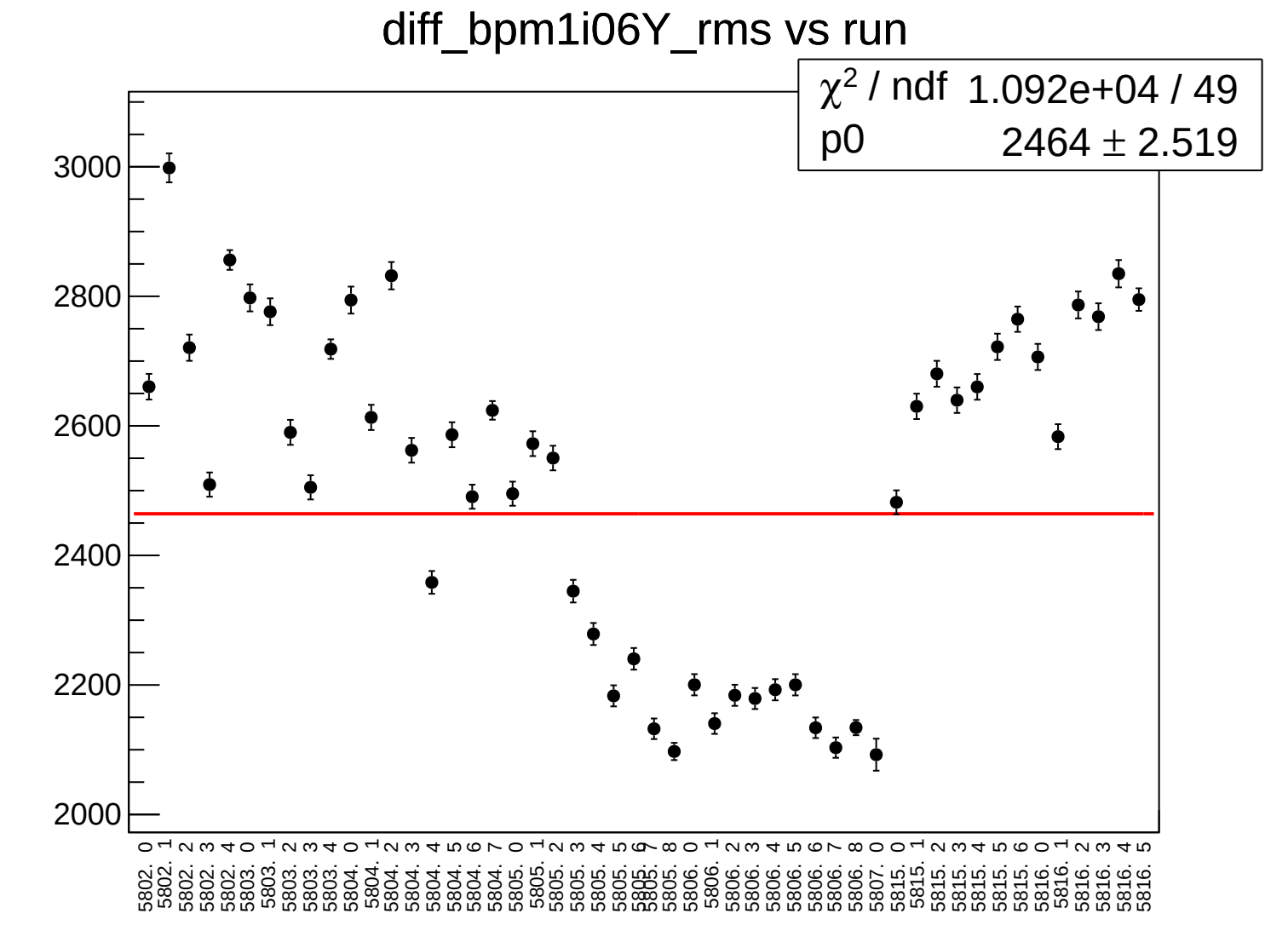

diff_bpm1i06X_mean vs run
χ² / ndf 51.04 / 49
p0 90.28 ± 3.378
pull
Entries 50
Mean 62.52
Std Dev 41.46


pull1D
Entries 50
Mean 0.03267
Std Dev 1.01


diff_bpm1i06X_rms vs run
χ² / ndf 1.071e+04 / 49
p0 2337 ± 2.388
2800
2600
2400
2200
2000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


diff_bpm1i06Y_mean vs run
χ² / ndf 40.69 / 49
p0 33.28 ± 3.562
150
100
50
0
−50
pull
Entries 50
Mean 88.74
Std Dev 17.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01417
Std Dev 0.902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1i06Y_rms vs run
χ² / ndf 1.092e+04 / 49
p0 2464 ± 2.519
3000
2800
2600
2400
2200
2000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
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5804. 6
5804. 7
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5805. 7
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5806. 7
5806. 8
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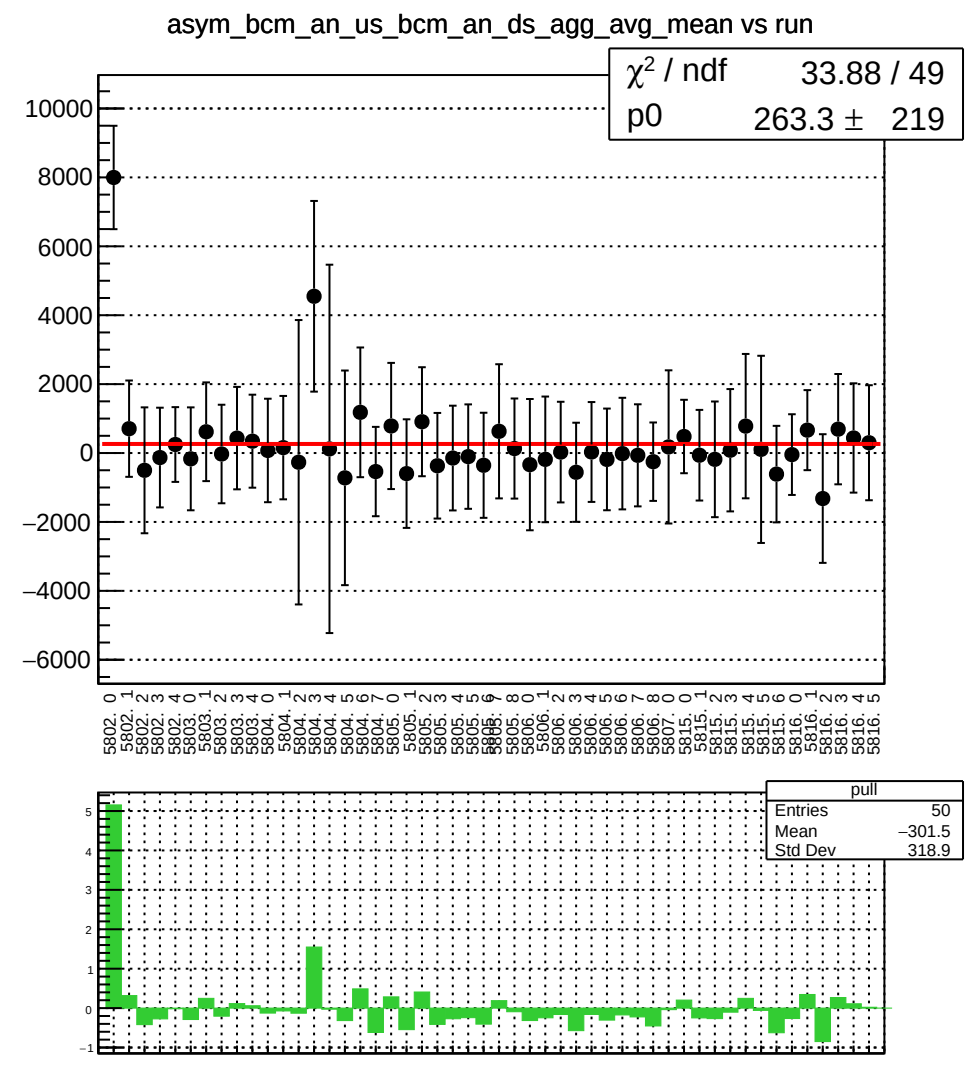
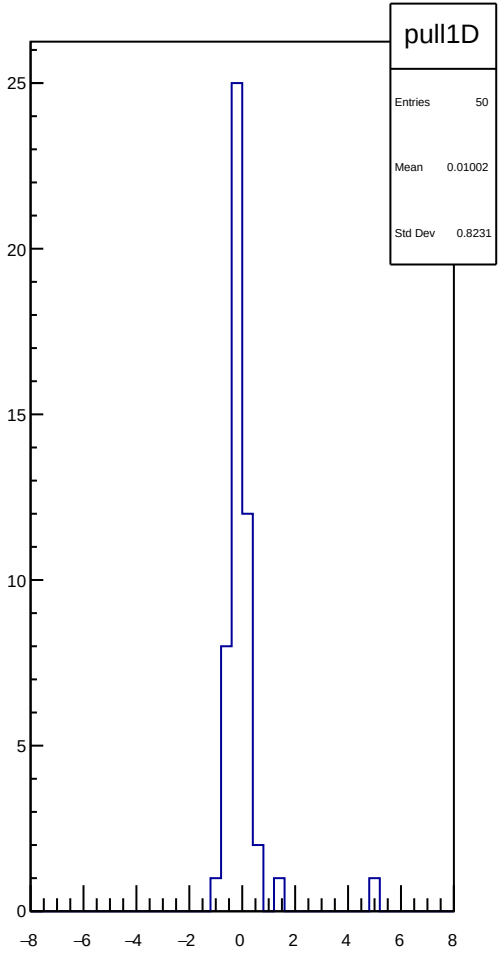
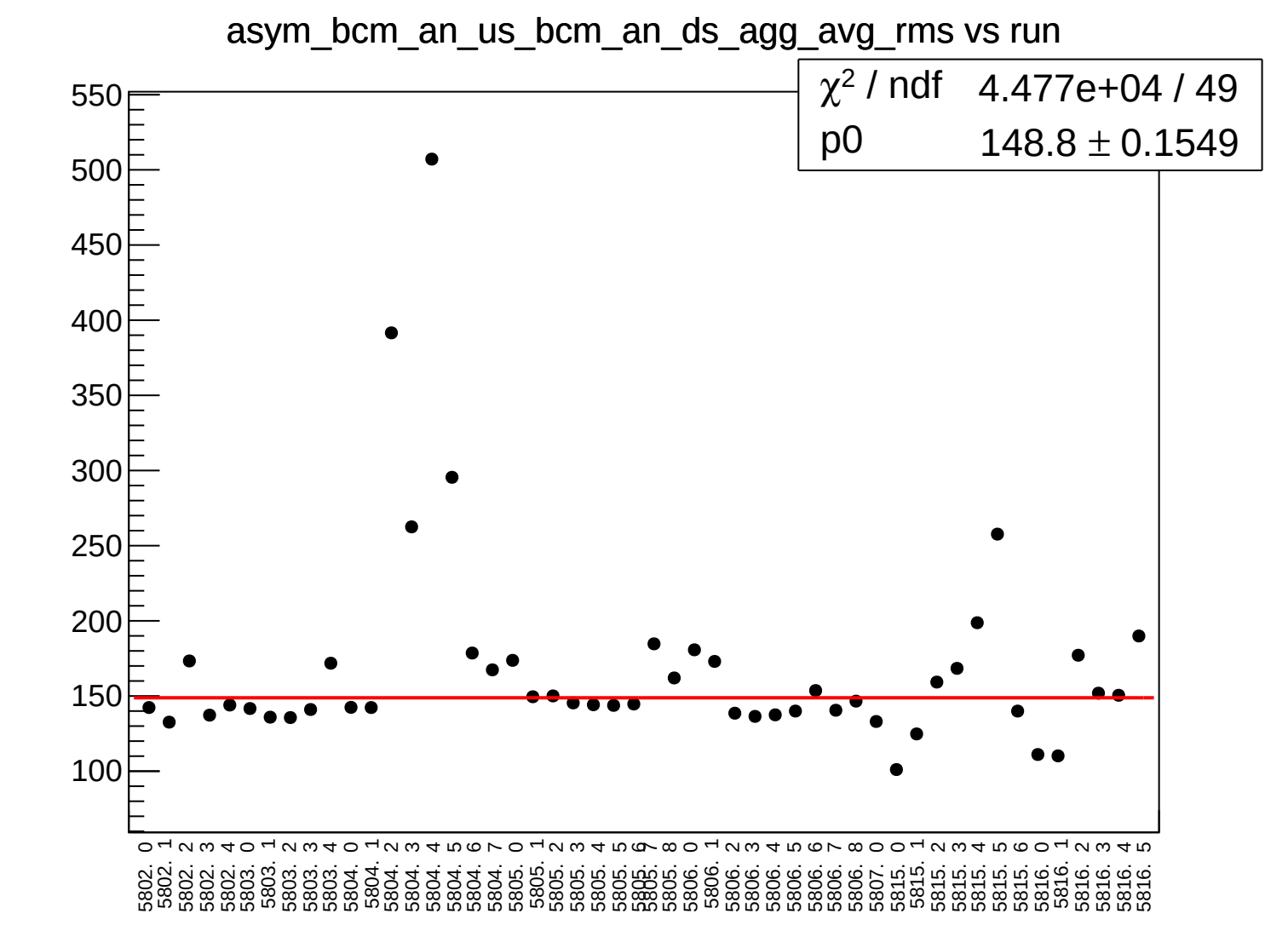
5816. 5


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.88 / 49
p0 263.3 ± 219
pull
Entries 50
Mean −301.5
Std Dev 318.9


pull1D
Entries 50
Mean 0.01002
Std Dev 0.8231


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.477e+04 / 49
p0 148.8 ± 0.1549
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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5803. 2
5803. 3
5803. 4
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5804. 2
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5804. 6
5804. 7
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5805. 2
5805. 3
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5805. 7
5805. 8
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5806. 4
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5816. 2
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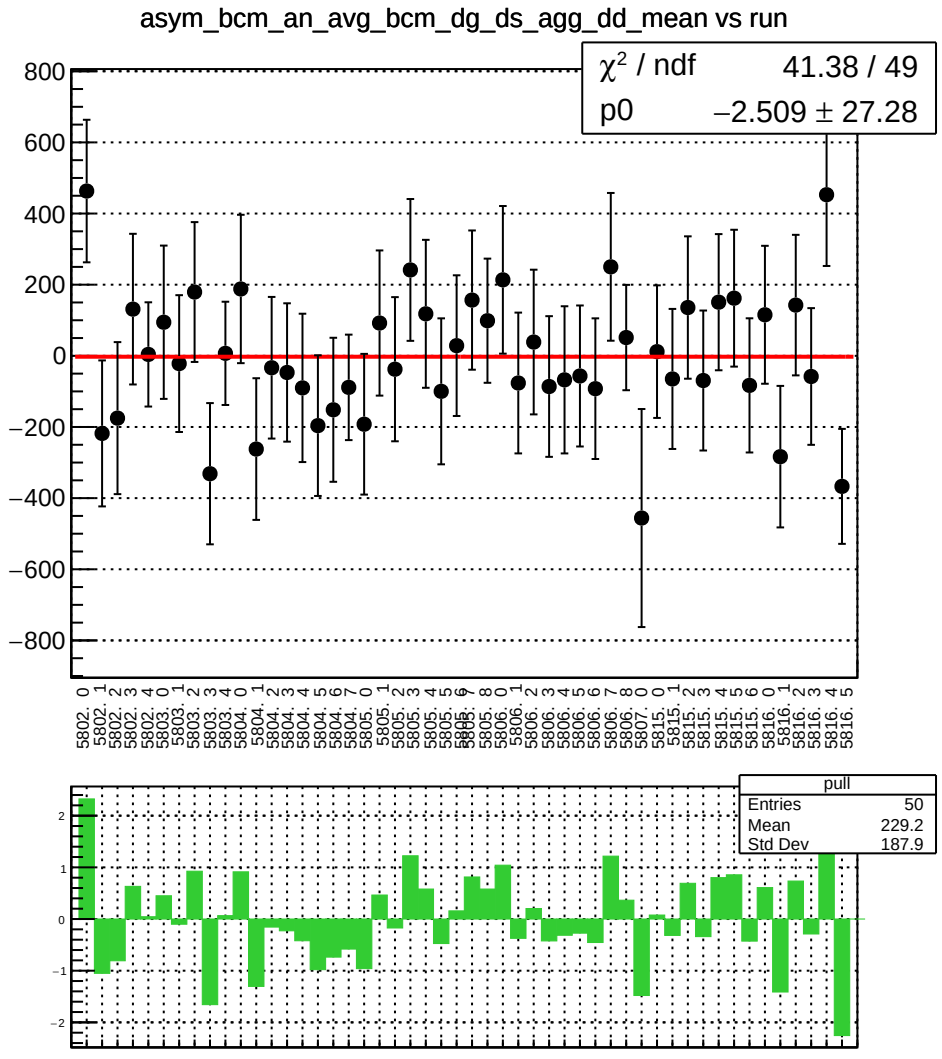
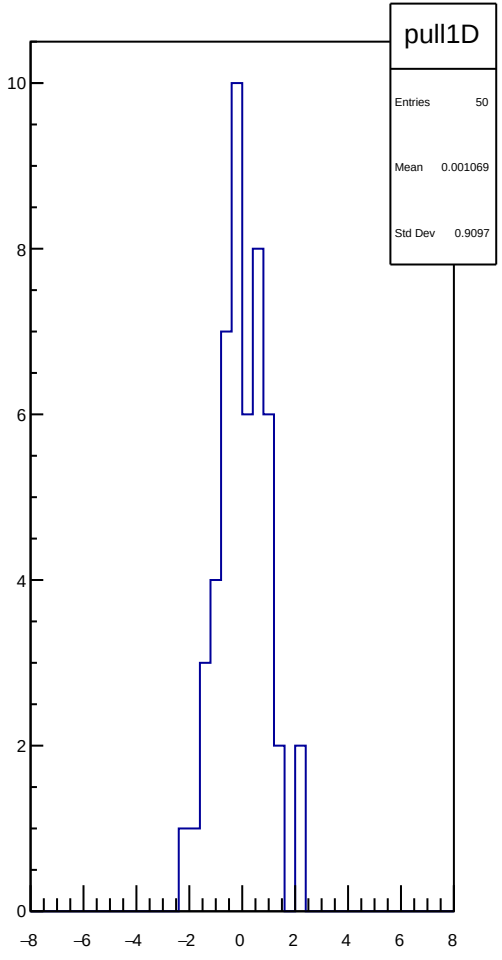
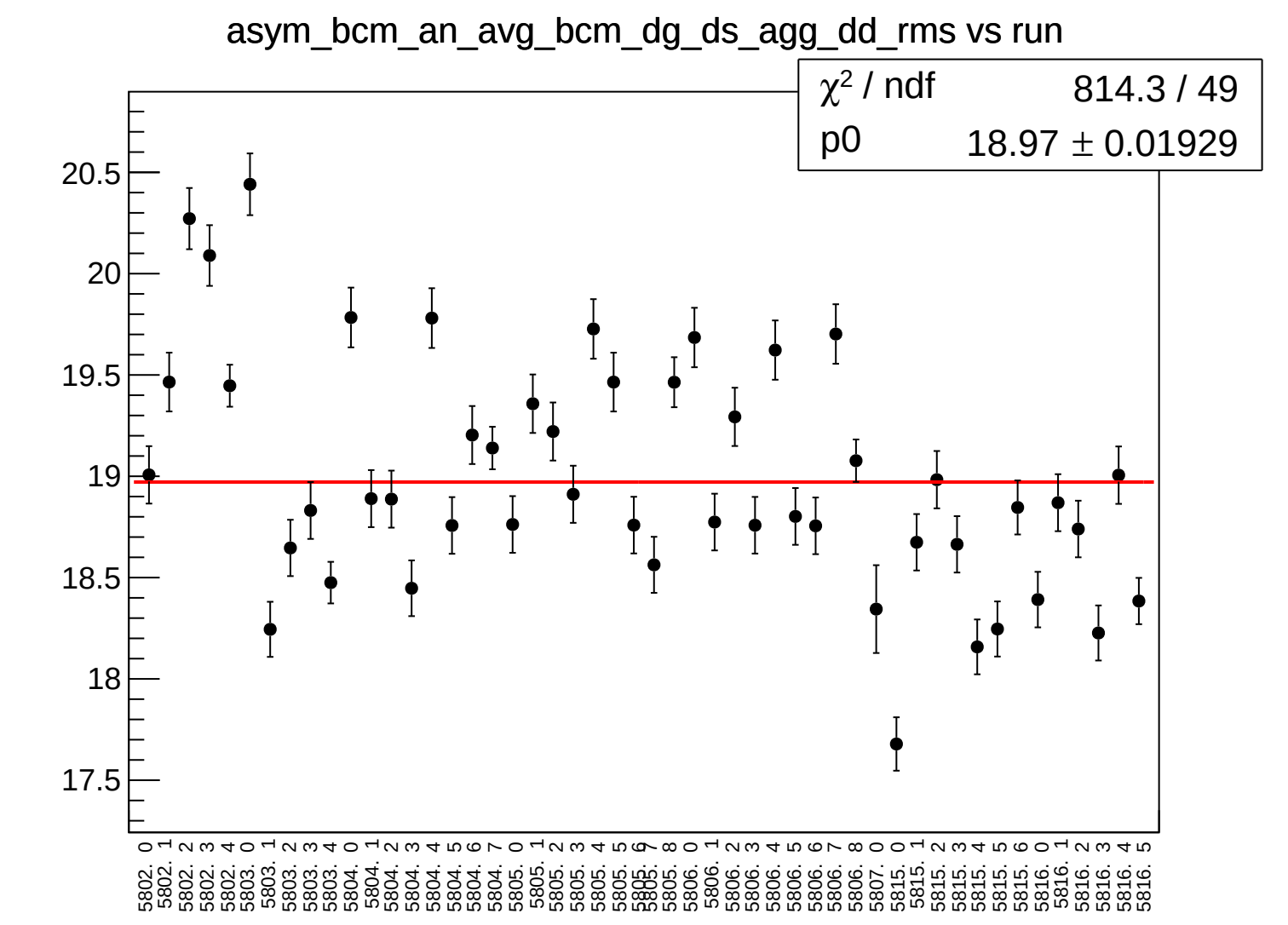
5816. 4
5816. 5


asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 41.38 / 49
p0 −2.509 ± 27.28
pull
Entries 50
Mean 229.2
Std Dev 187.9


pull1D
Entries 50
Mean 0.001069
Std Dev 0.9097


asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 814.3 / 49
p0 18.97 ± 0.01929
20.5
20
19.5
19
18.5
18
17.5
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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5803. 2
5803. 3
5803. 4
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5804. 6
5804. 7
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5815. 6
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5816. 2
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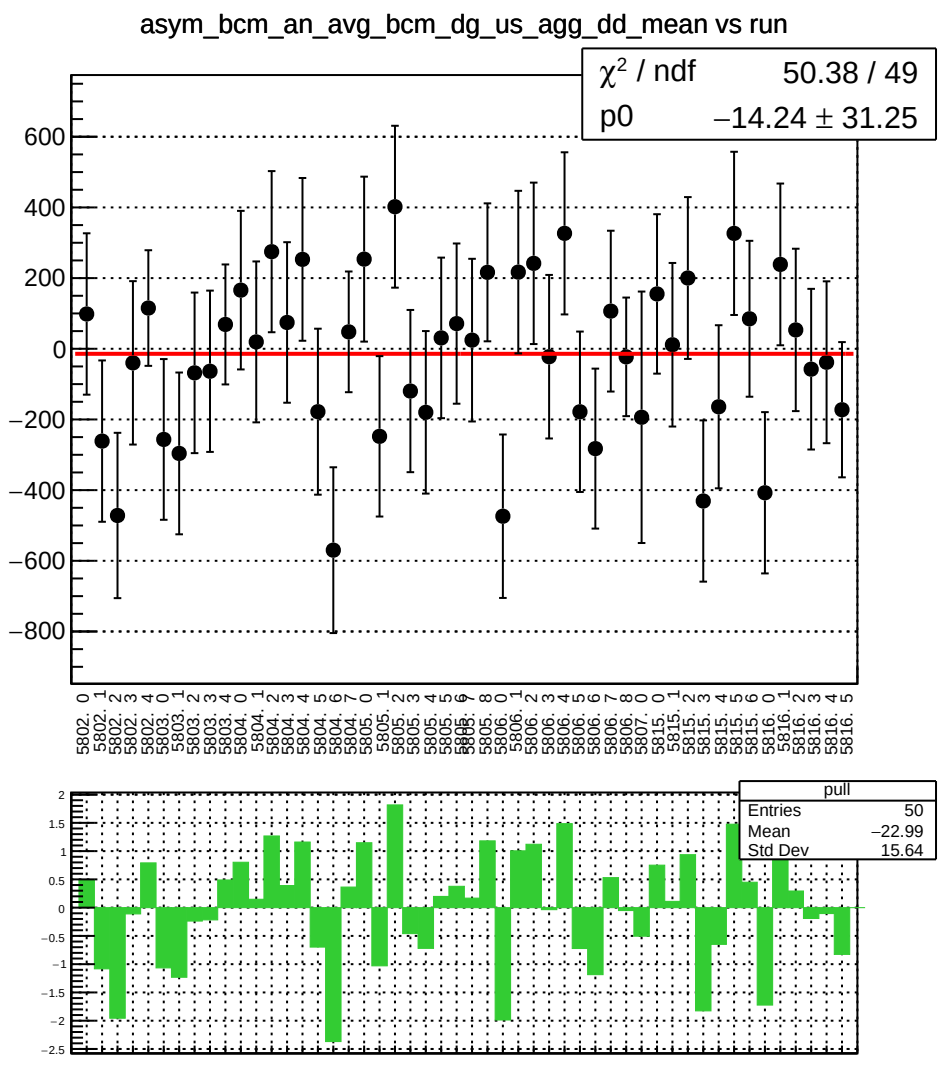
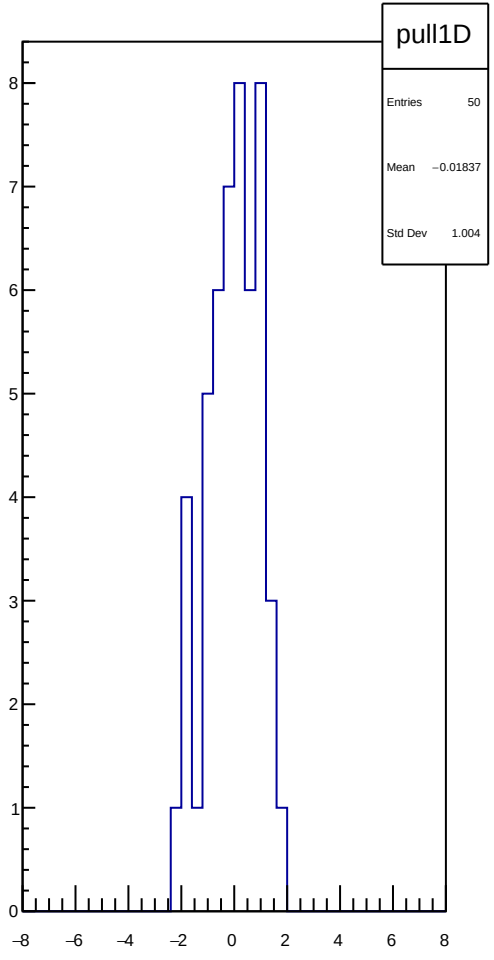
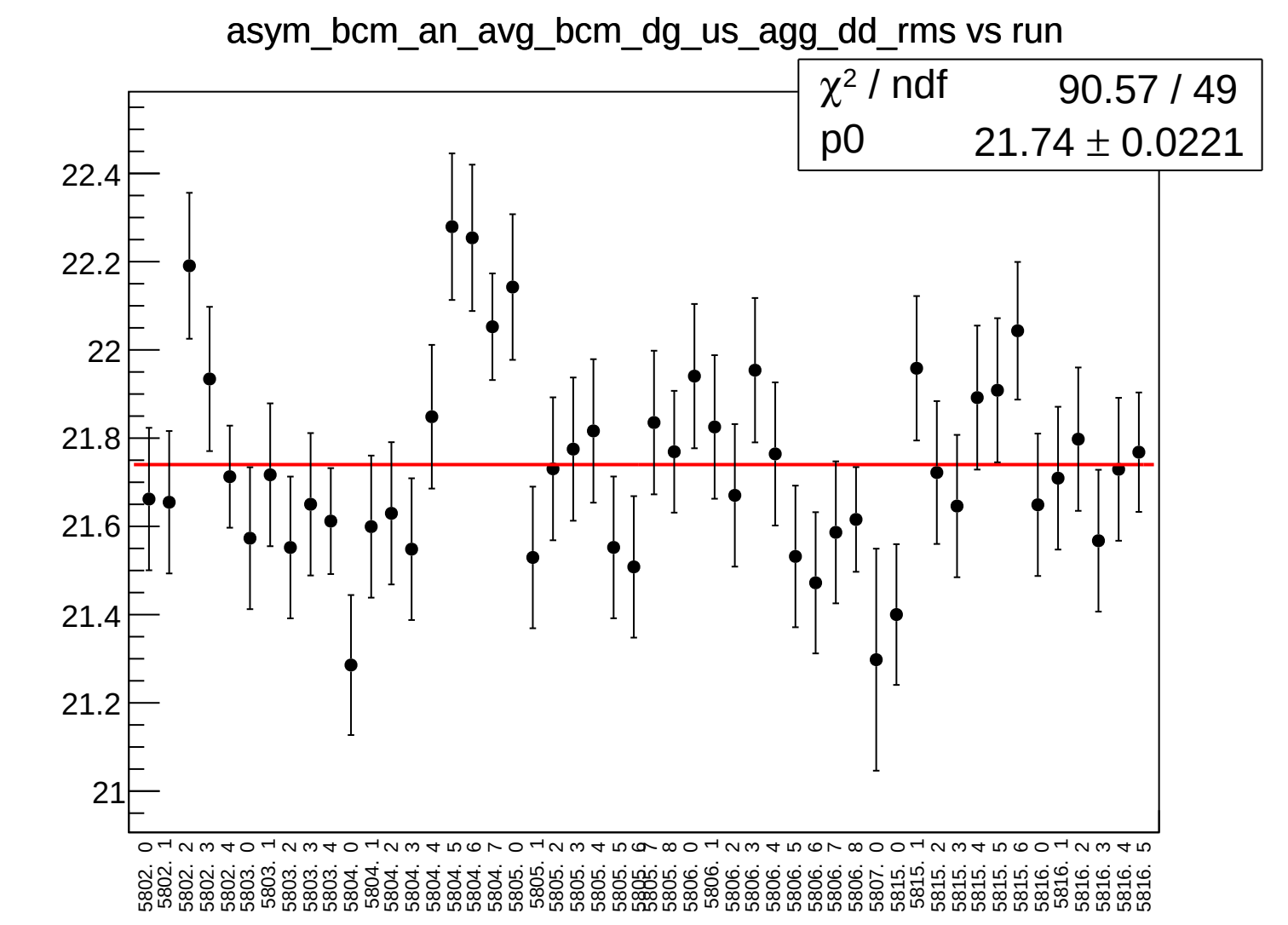
5816. 4
5816. 5


asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 50.38 / 49
p0 −14.24 ± 31.25
pull
Entries 50
Mean −22.99
Std Dev 15.64


pull1D
Entries 50
Mean −0.01837
Std Dev 1.004


asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 90.57 / 49
p0 21.74 ± 0.0221
22.4
22.2
22
21.8
21.6
21.4
21.2
21
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
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5804. 7
5805. 0
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5805. 6
5805. 7
5805. 8
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5806. 2
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5806. 6
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5806. 8
5807. 0
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5815. 6
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5816. 2
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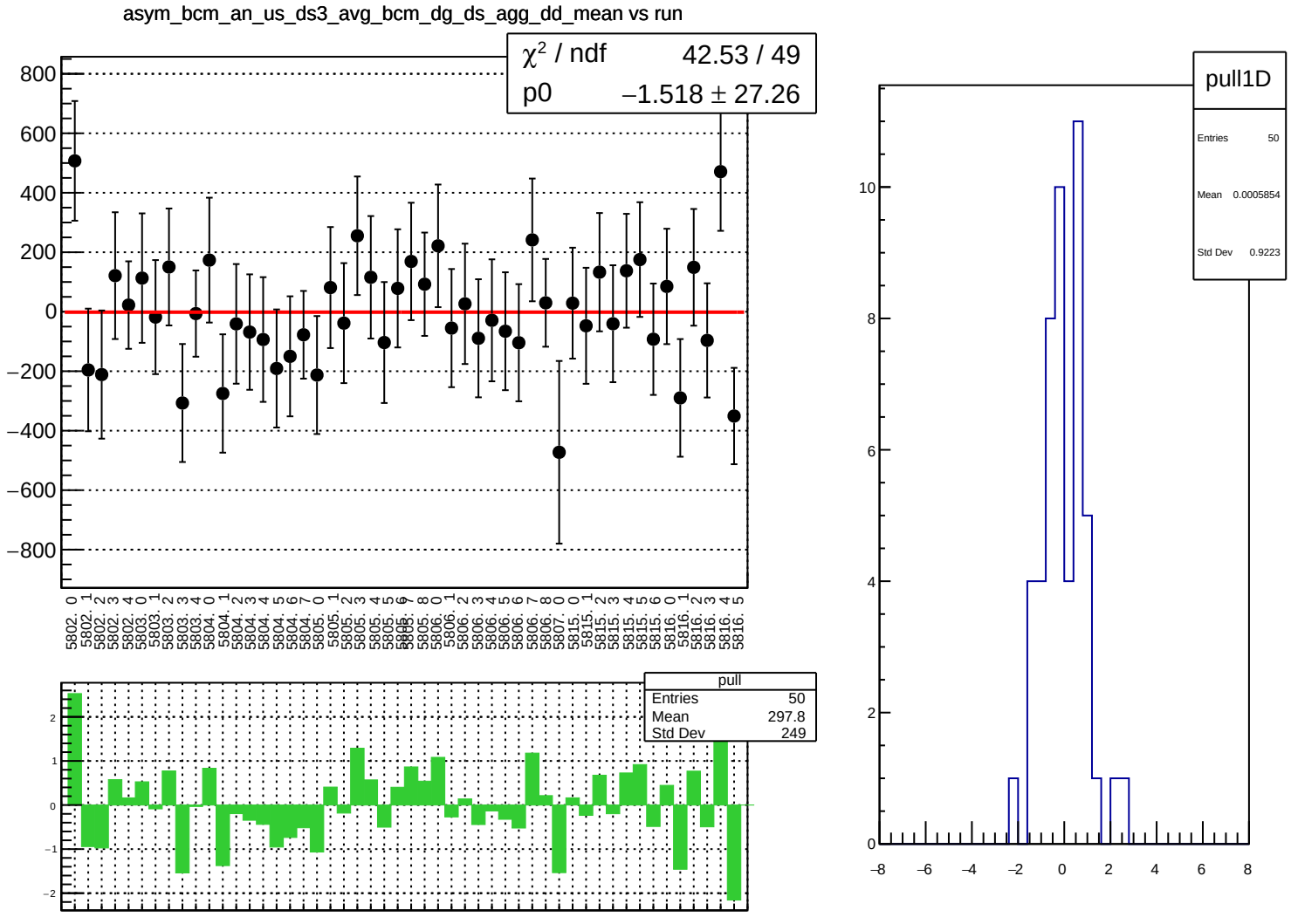
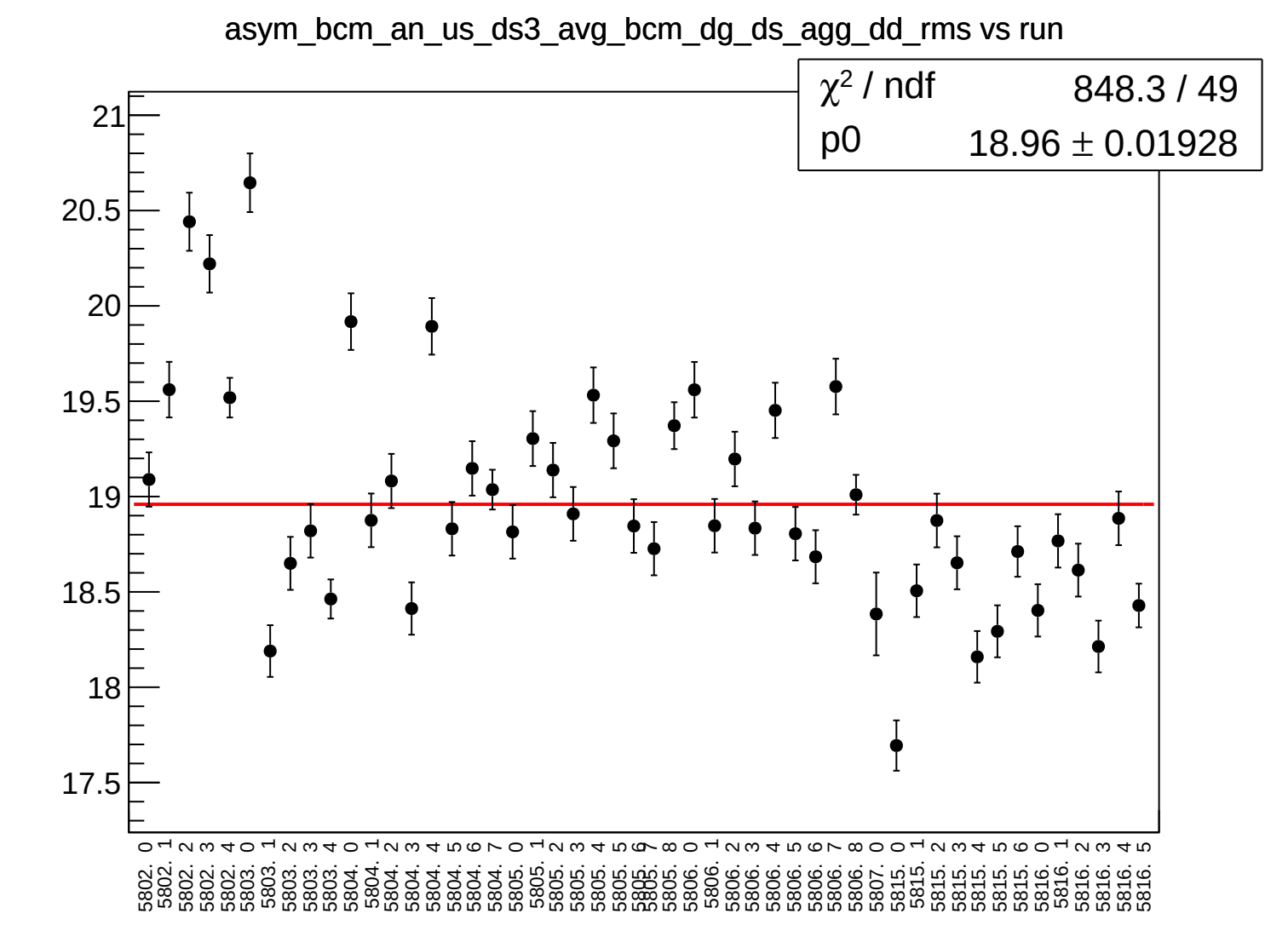
5816. 4
5816. 5


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.53 / 49
p0 −1.518 ± 27.26
pull
Entries 50
Mean 297.8
Std Dev 249
pull1D
Entries 50
Mean 0.0005854
Std Dev 0.9223


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 848.3 / 49
p0 18.96 ± 0.01928
21
20.5
20
19.5
19
18.5
18
17.5
5802. 0
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5802. 2
5802. 3
5802. 4
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5803. 3
5803. 4
5804. 0
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5804. 2
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5804. 5
5804. 6
5804. 7
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5815. 5
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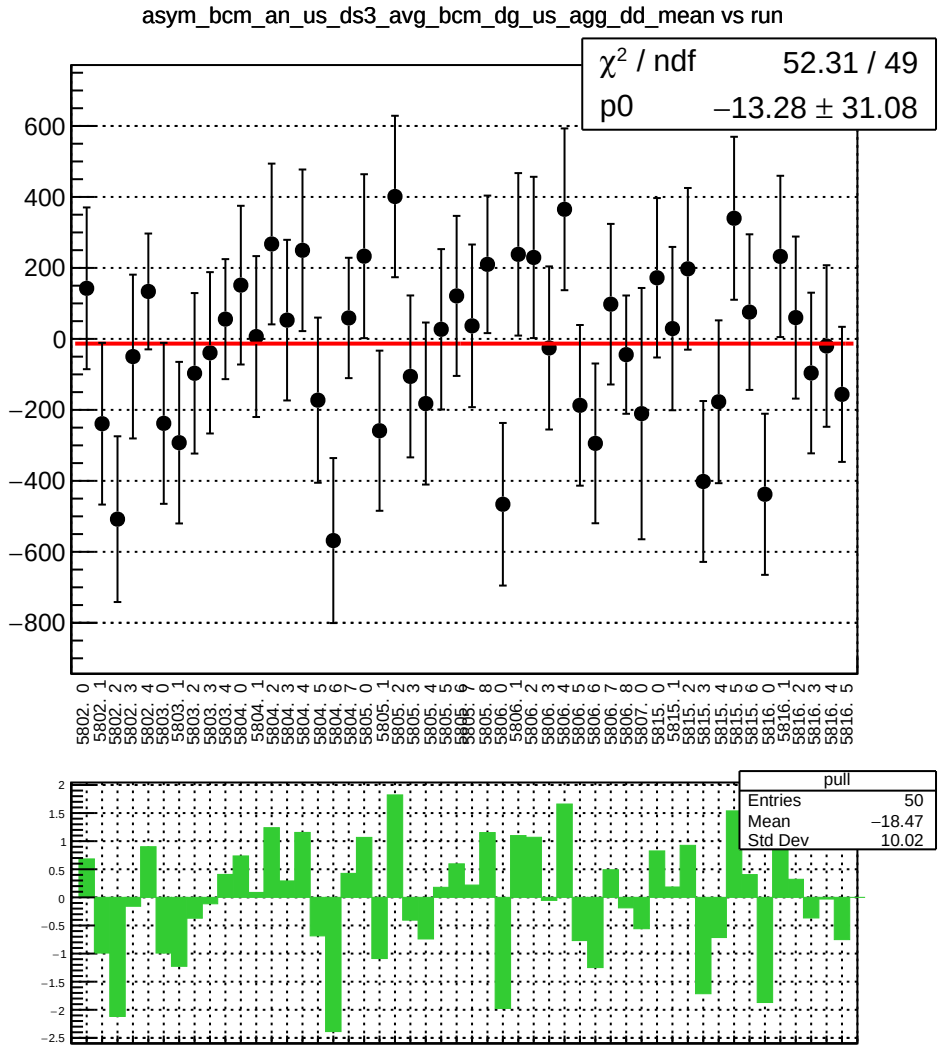
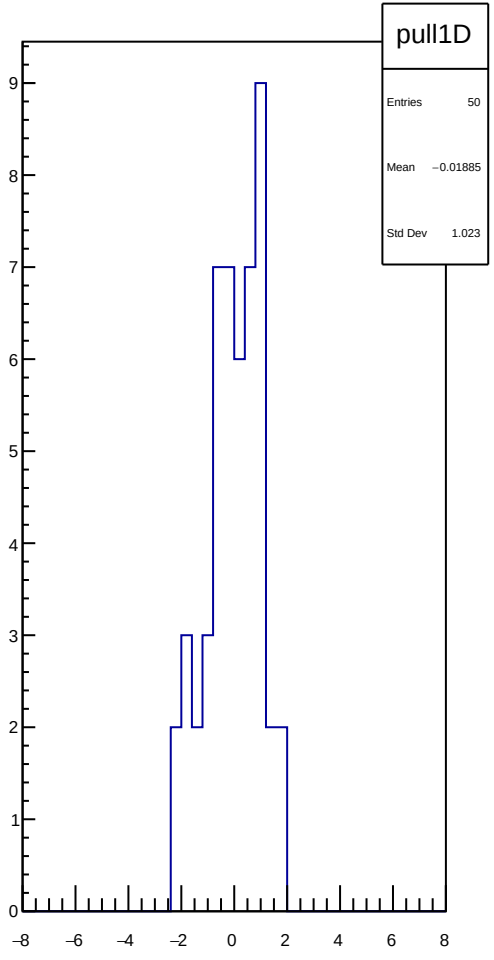
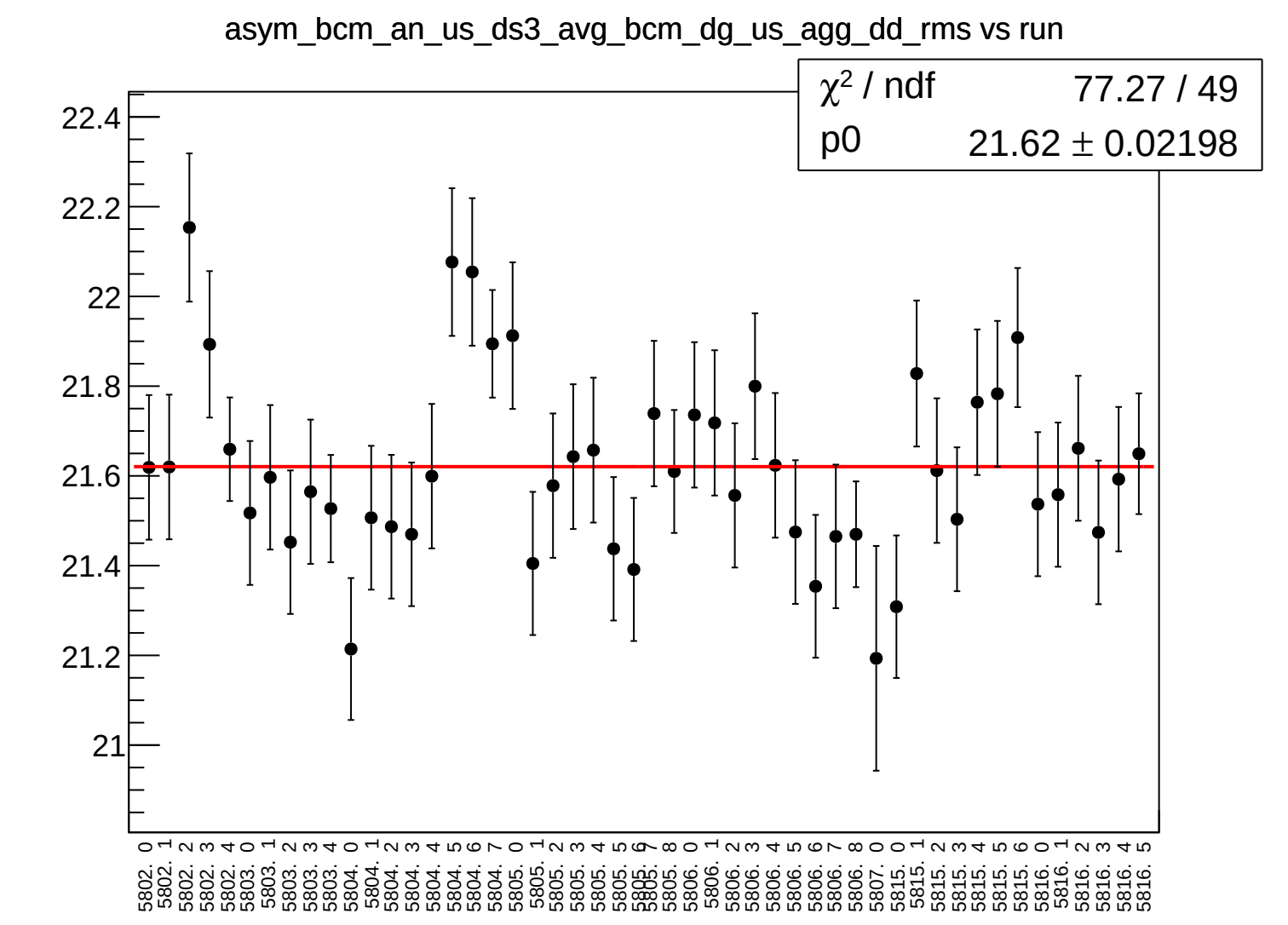
5816. 5


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 52.31 / 49
p0 −13.28 ± 31.08
pull
Entries 50
Mean −18.47
Std Dev 10.02


pull1D
Entries 50
Mean −0.01885
Std Dev 1.023


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 77.27 / 49
p0 21.62 ± 0.02198
22.4
22.2
22
21.8
21.6
21.4
21.2
21
5802. 0
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5803. 4
5804. 0
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5804. 5
5804. 6
5804. 7
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5805. 2
5805. 3
5805. 4
5805. 5
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5805. 7
5805. 8
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5816. 2
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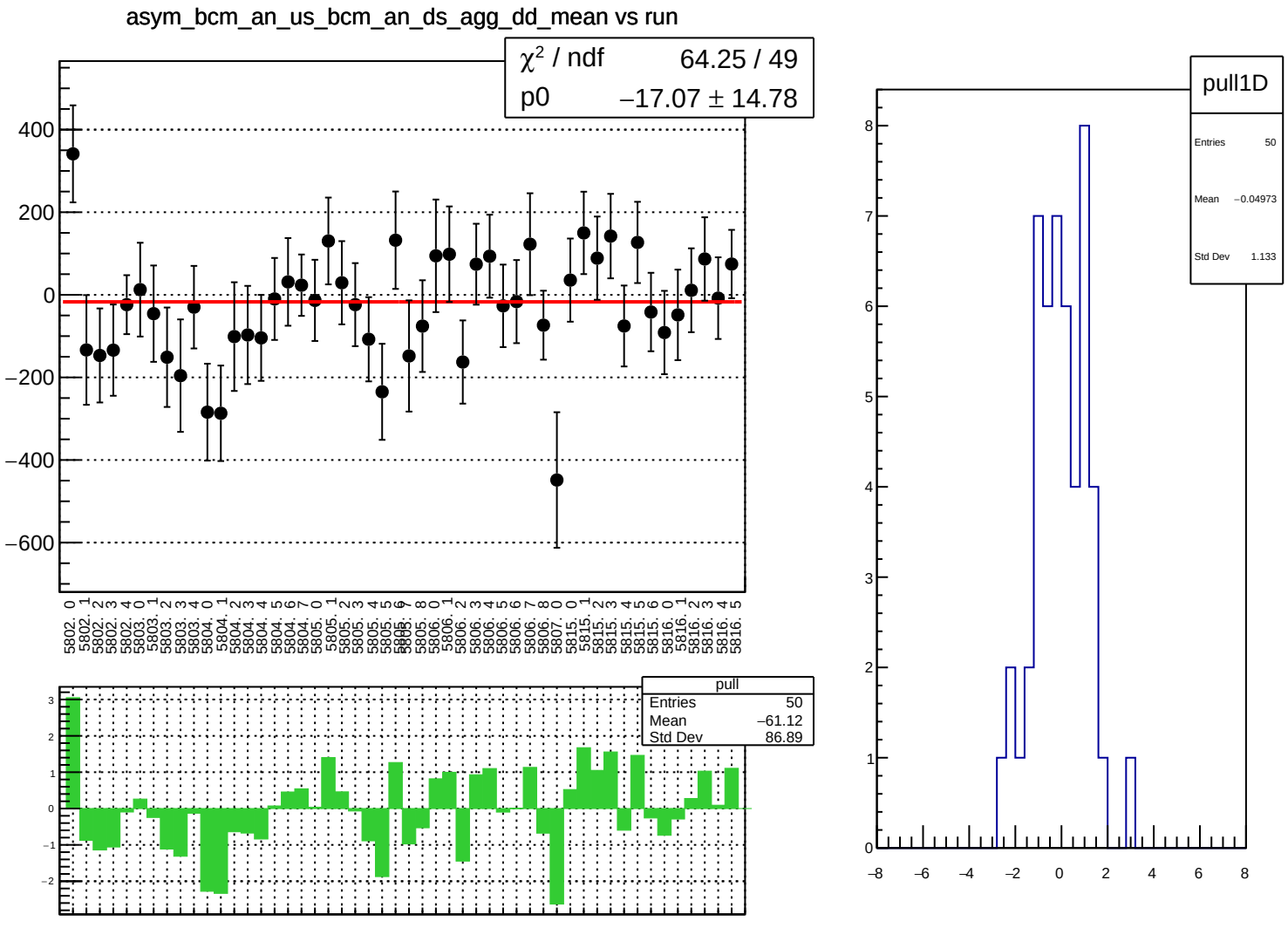
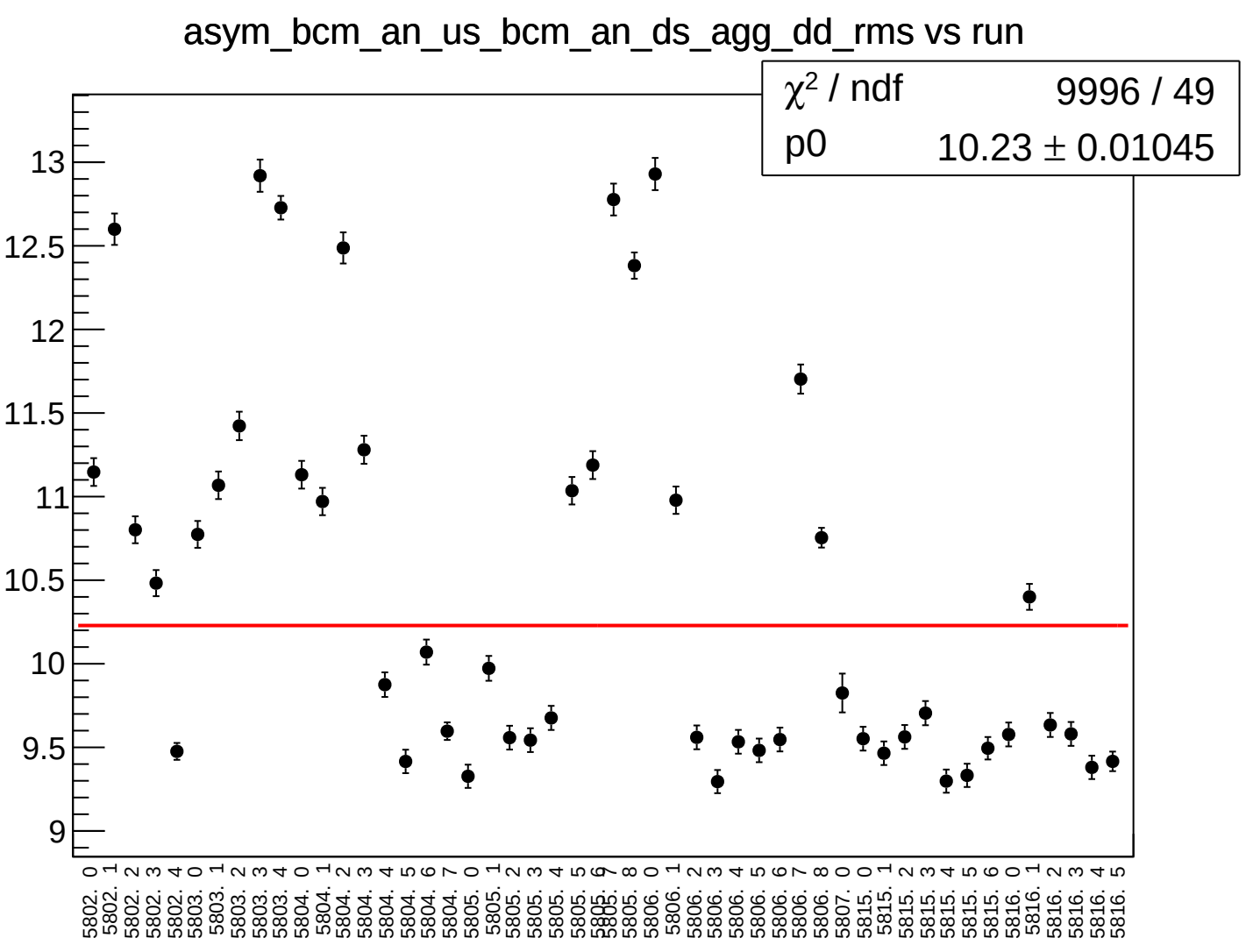
5816. 4
5816. 5


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.25 / 49
p0 −17.07 ± 14.78
400
200
0
−200
−400
−600
pull
Entries 50
Mean −61.12
Std Dev 86.89
pull1D
Entries 50
Mean −0.04973
Std Dev 1.133


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9996 / 49
p0 10.23 ± 0.01045
13
12.5
12
11.5
11
10.5
10
9.5
9
5802. 0
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5804. 7
5805. 0
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5805. 8
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5815. 5
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5816. 2
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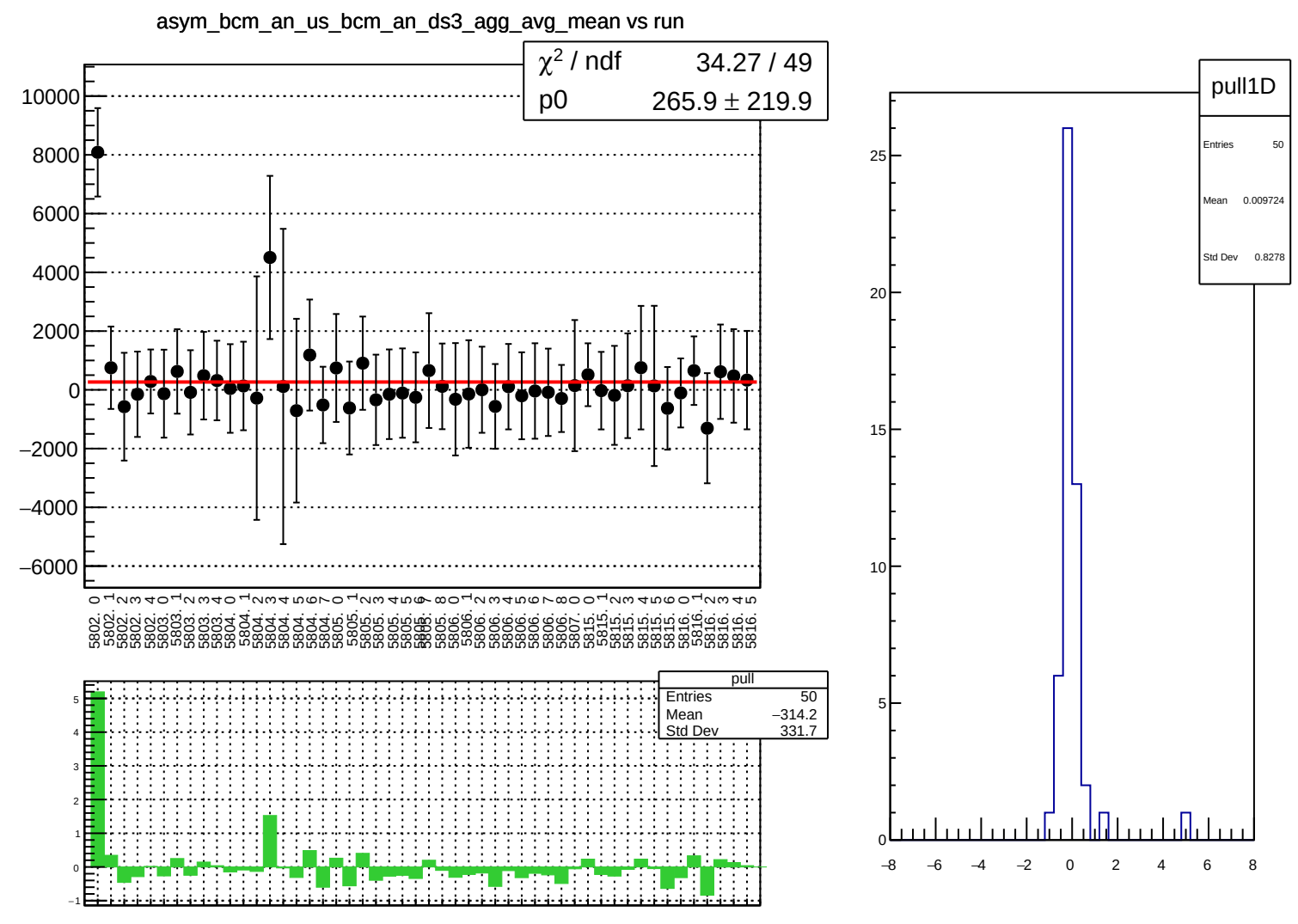
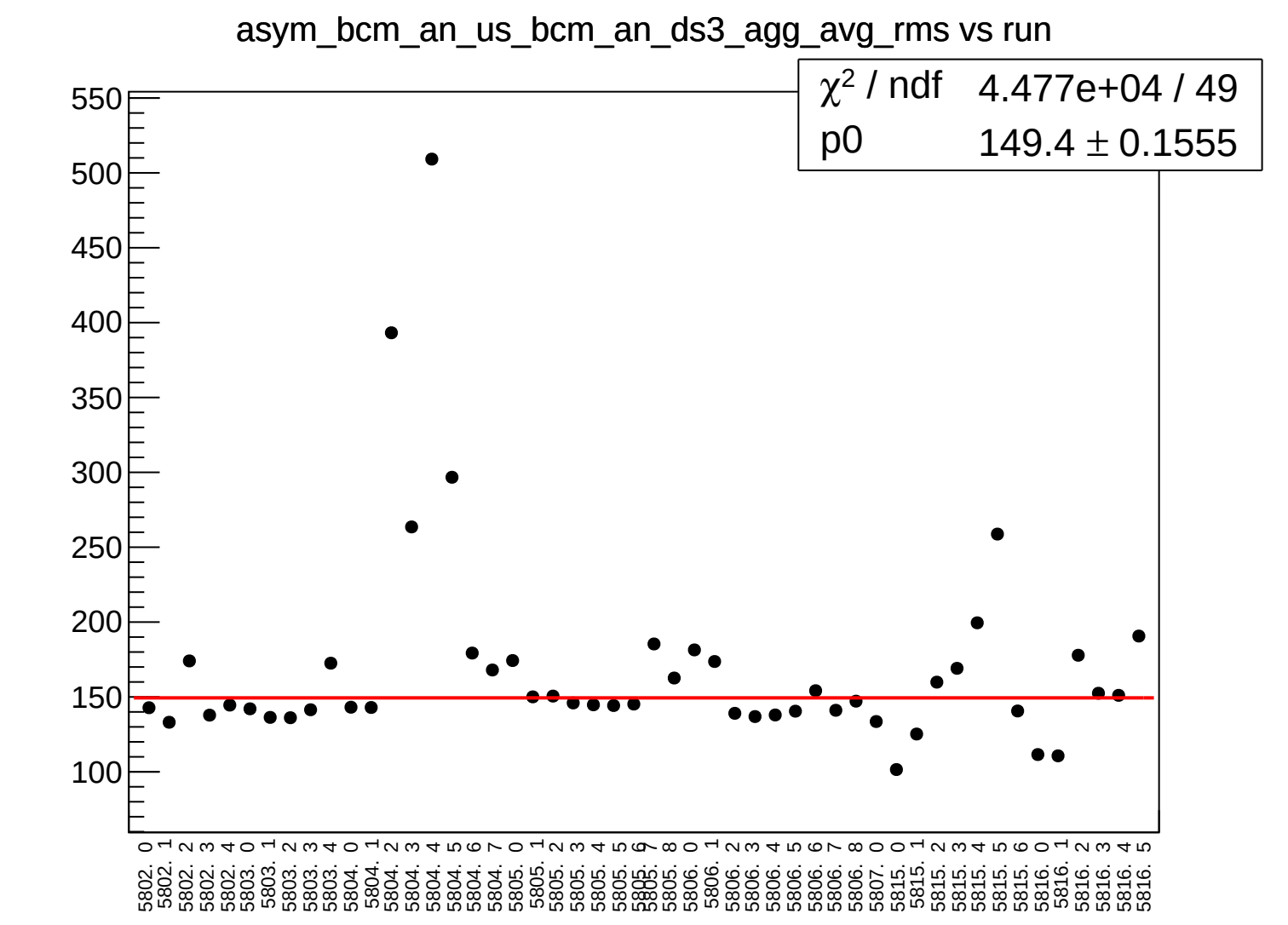
5816. 5


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 34.27 / 49
p0 265.9 ± 219.9
pull
Entries 50
Mean −314.2
Std Dev 331.7
pull1D
Entries 50
Mean 0.009724
Std Dev 0.8278


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.477e+04 / 49
p0 149.4 ± 0.1555
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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5803. 2
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5805. 7
5805. 8
5806. 0
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5806. 4
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5806. 8
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5815. 2
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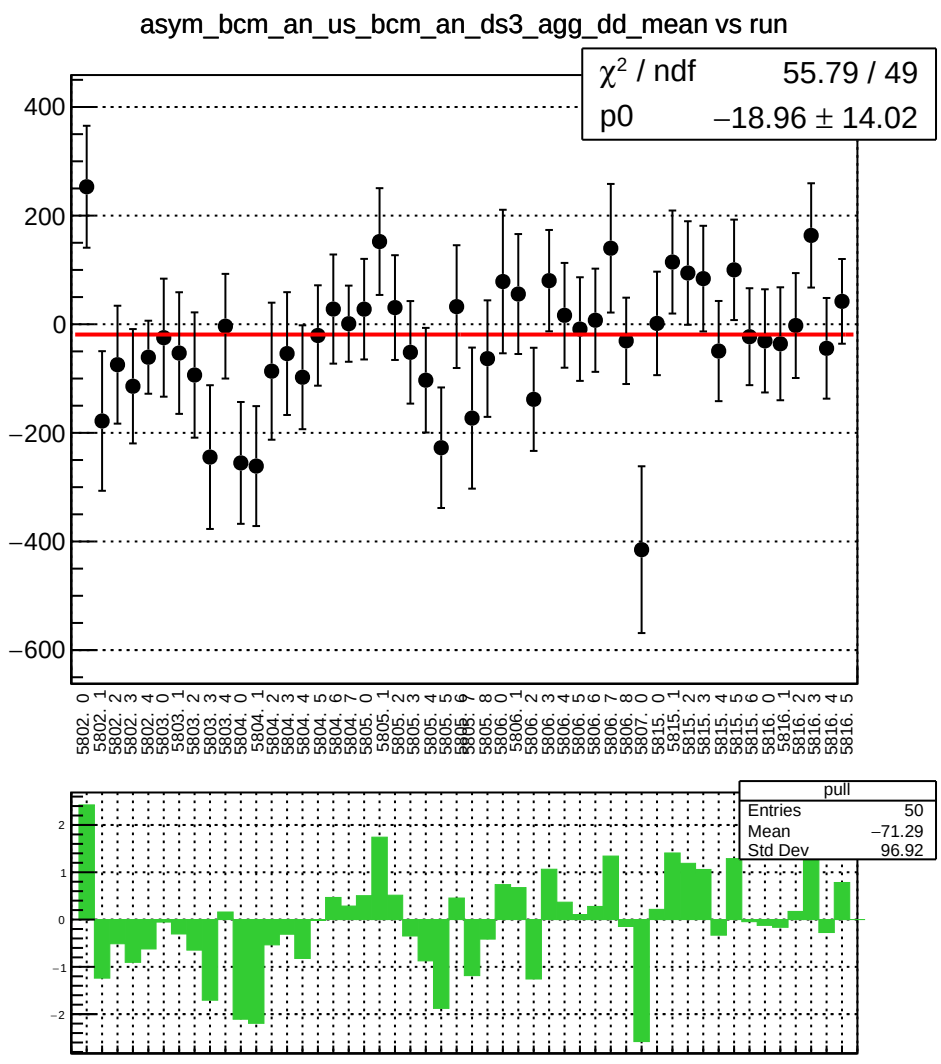
5816. 5


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 55.79 / 49
p0 −18.96 ± 14.02
400
200
0
−200
−400
−600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
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5803. 2
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5803. 4
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5805. 6
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5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
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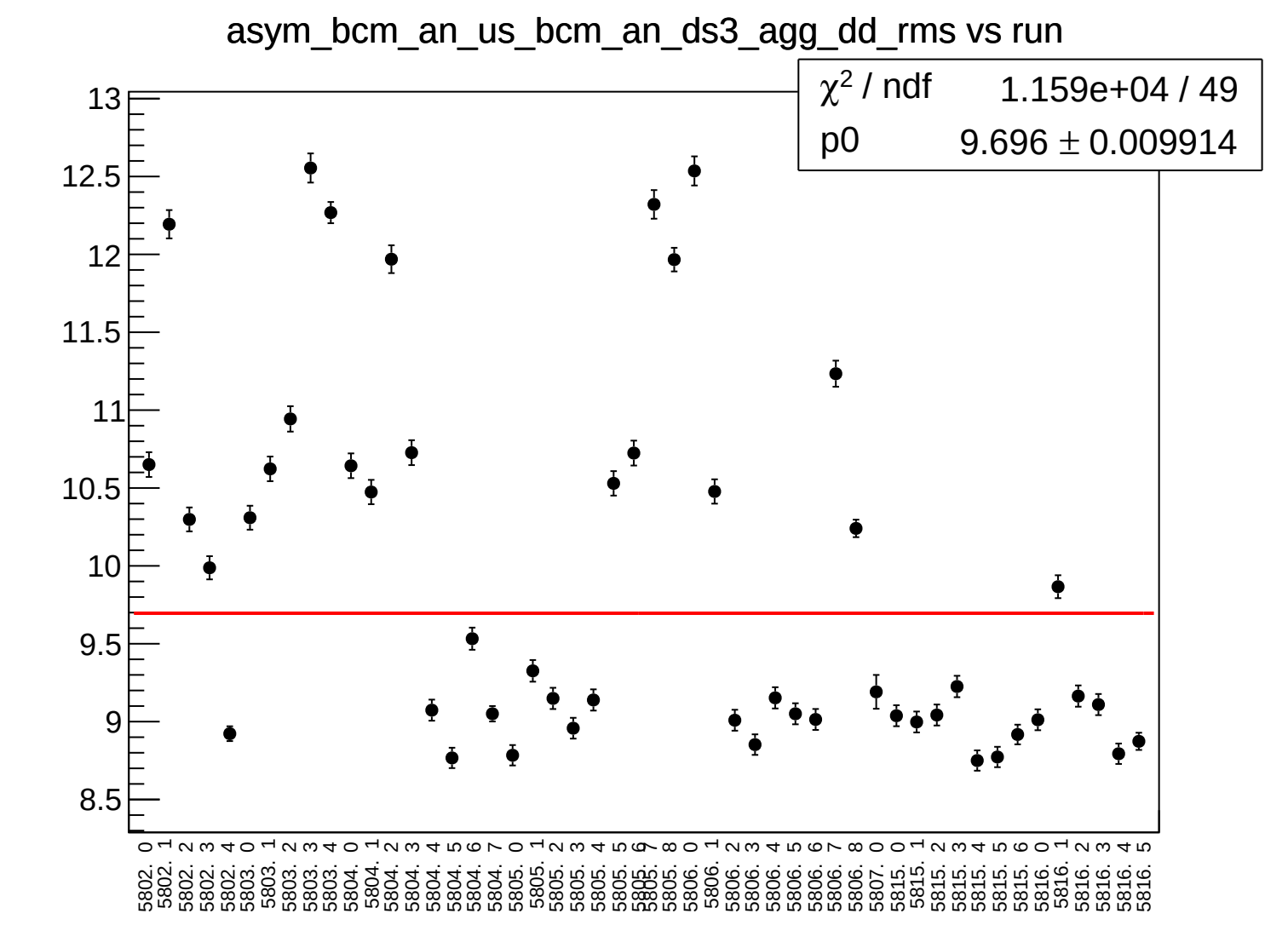
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −71.29
Std Dev 96.92
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.04909
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.159e+04 / 49
p0 9.696 ± 0.009914
13
12.5
12
11.5
11
10.5
10
9.5
9
8.5
5802. 0
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5816. 2
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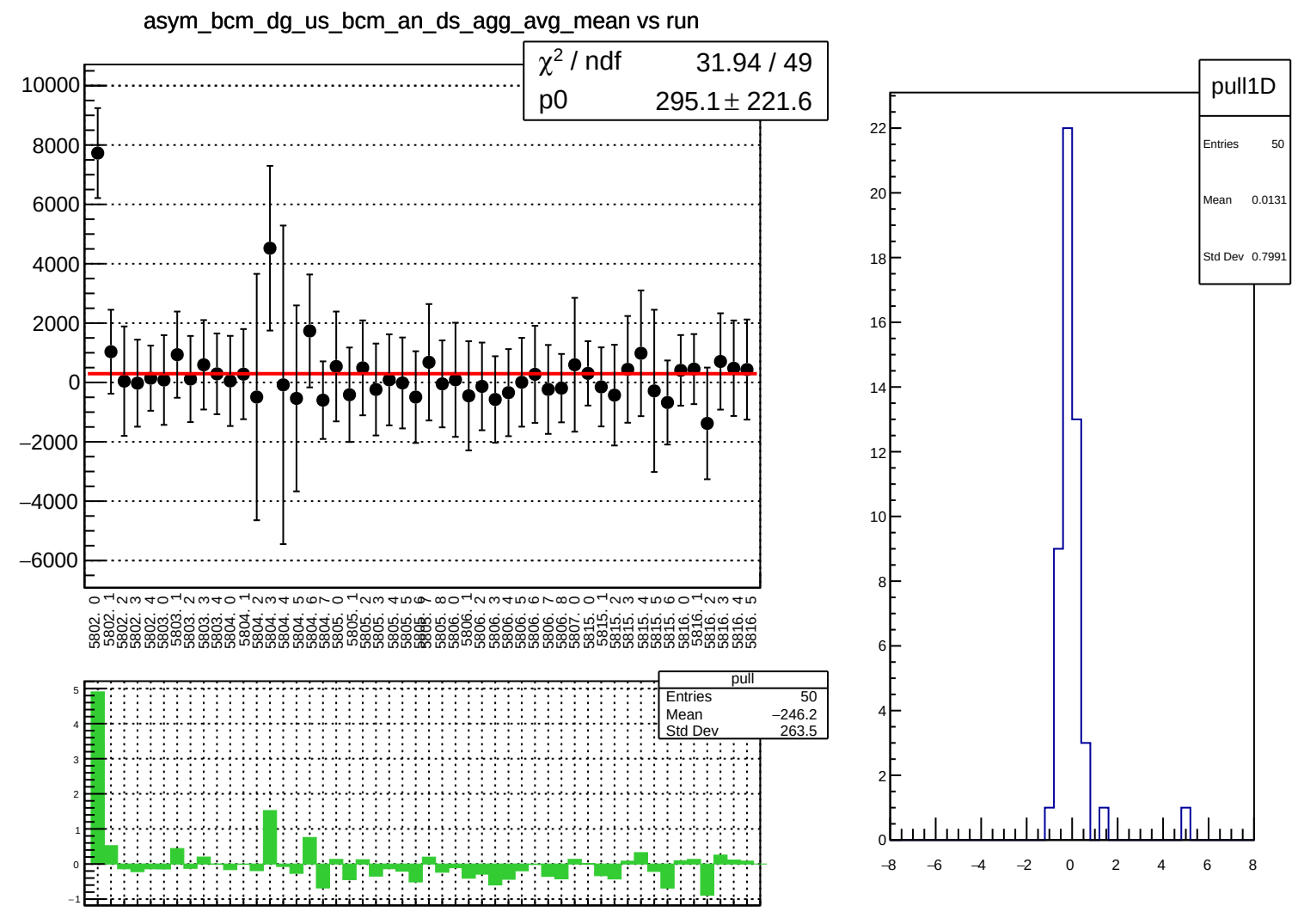
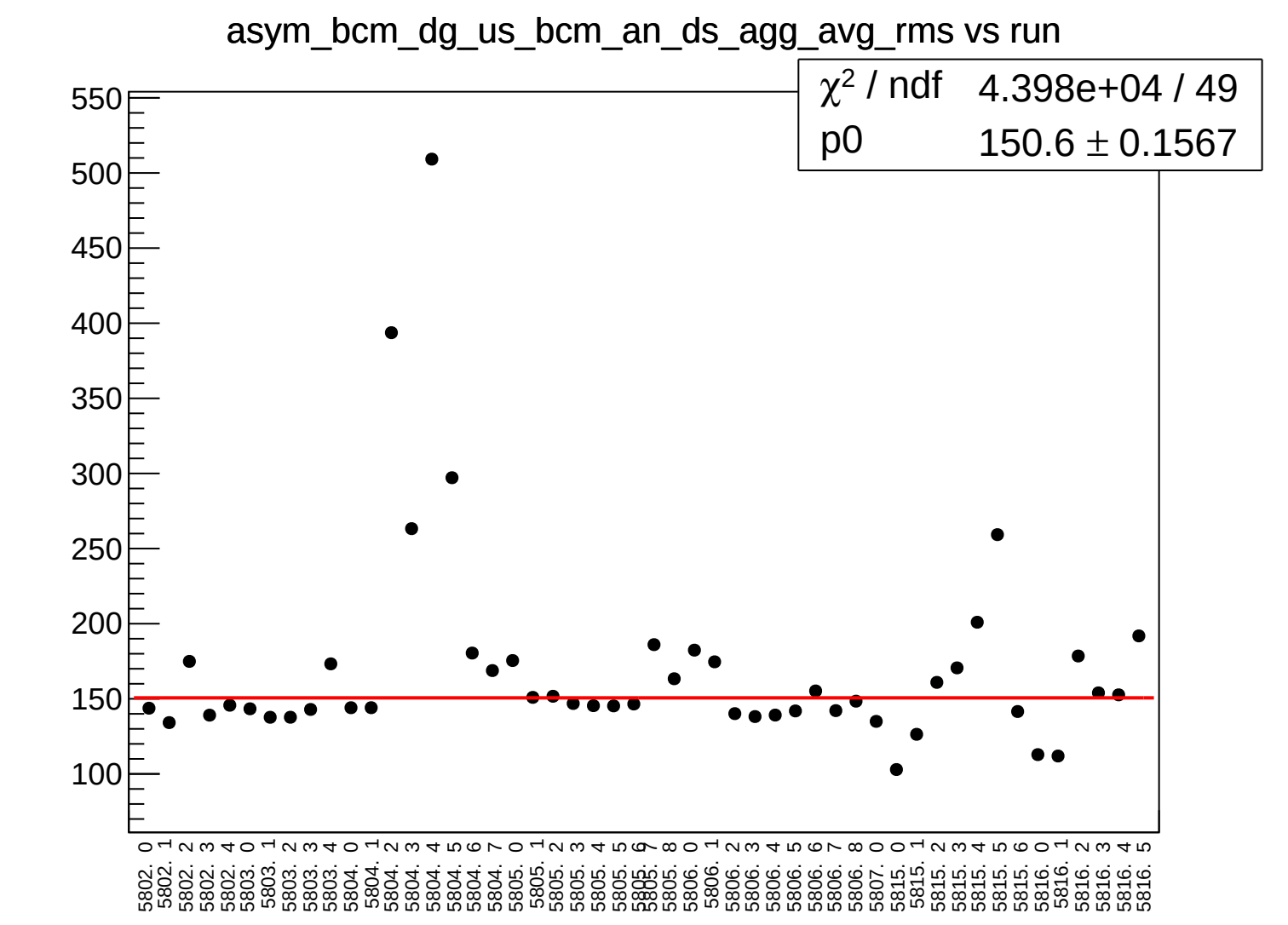
5816. 4
5816. 5


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.94 / 49
p0 295.1 ± 221.6
pull
Entries 50
Mean −246.2
Std Dev 263.5
pull1D
Entries 50
Mean 0.0131
Std Dev 0.7991


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.398e+04 / 49
p0 150.6 ± 0.1567
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500
450
400
350
300
250
200
150
100
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5803. 1
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5804. 2
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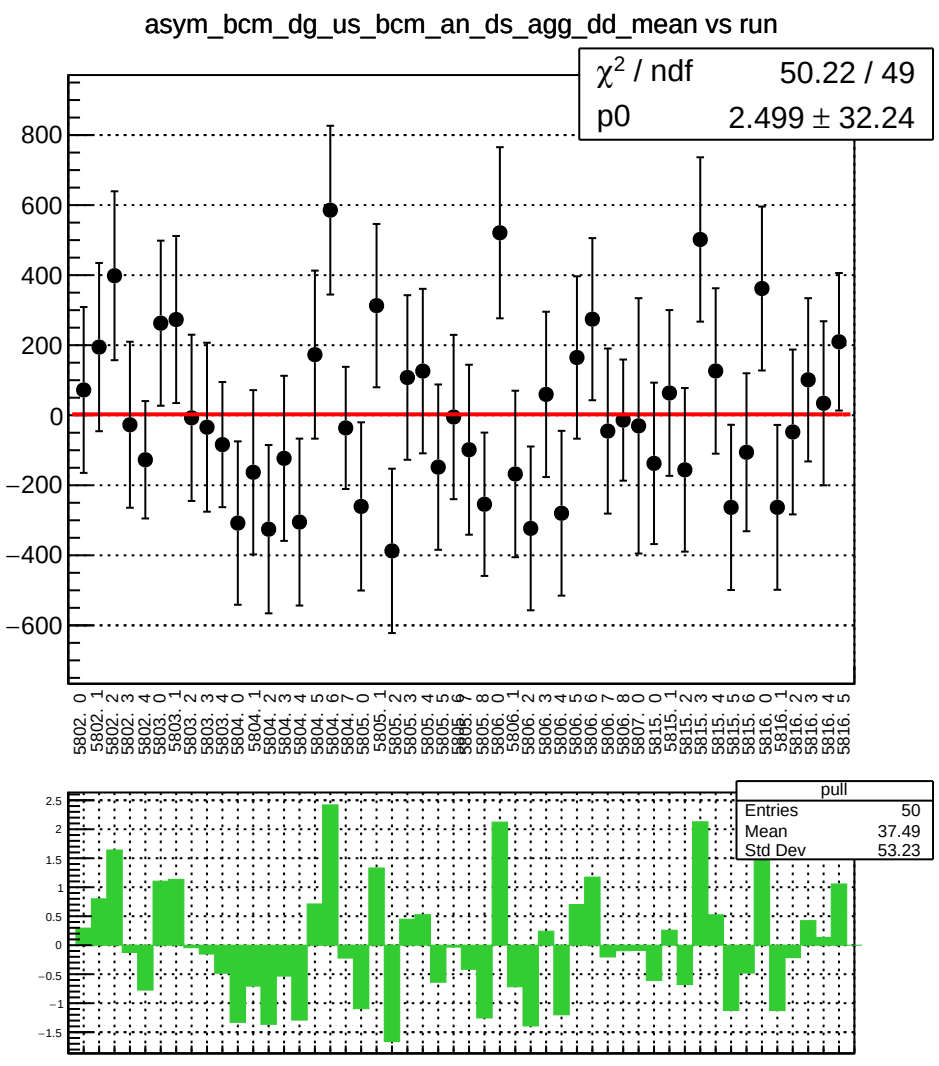
asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.22 / 49
p0 2.499 ± 32.24
800
600
400
200
0
−200
−400
−600
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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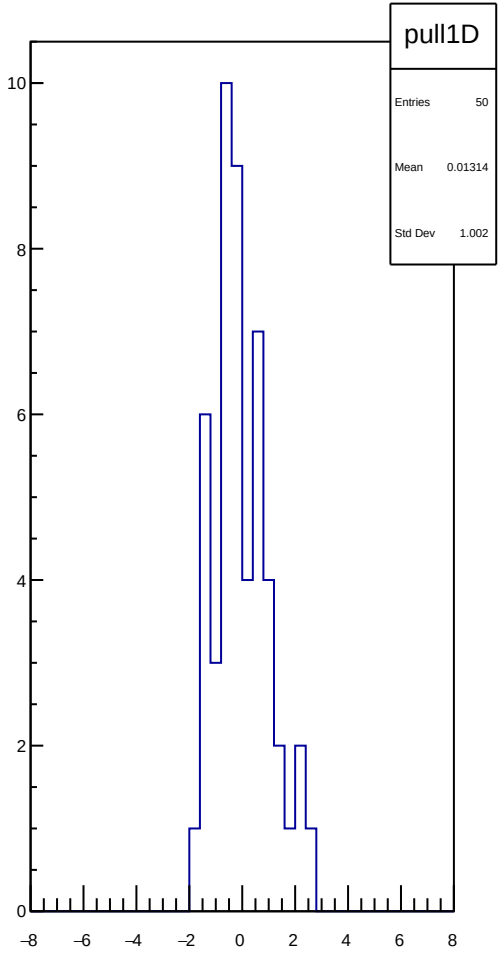
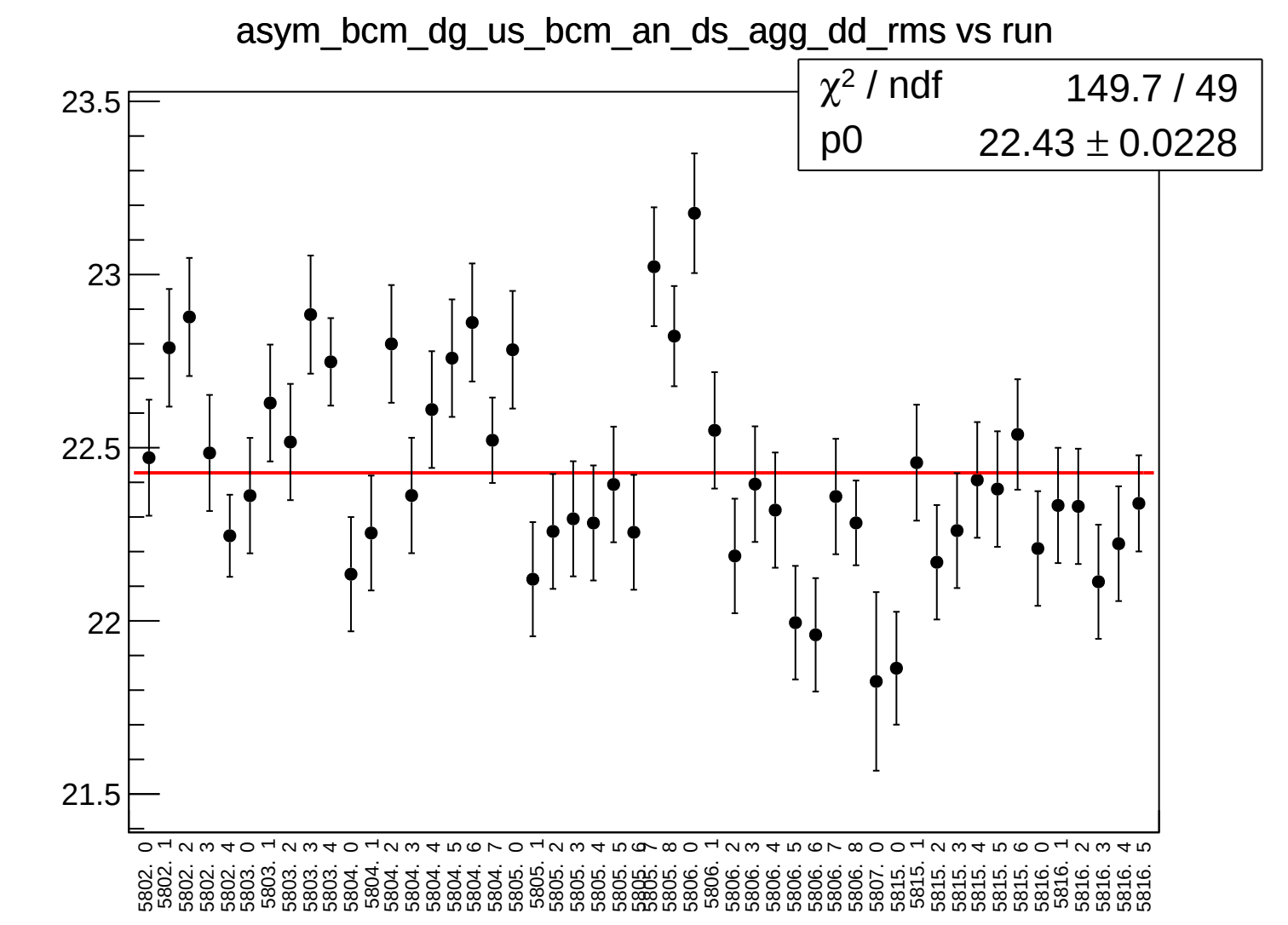
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 37.49
Std Dev 53.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.01314
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 149.7 / 49
p0 22.43 ± 0.0228
23.5
23
22.5
22
21.5
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
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5815. 5
5815. 6
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5816. 2
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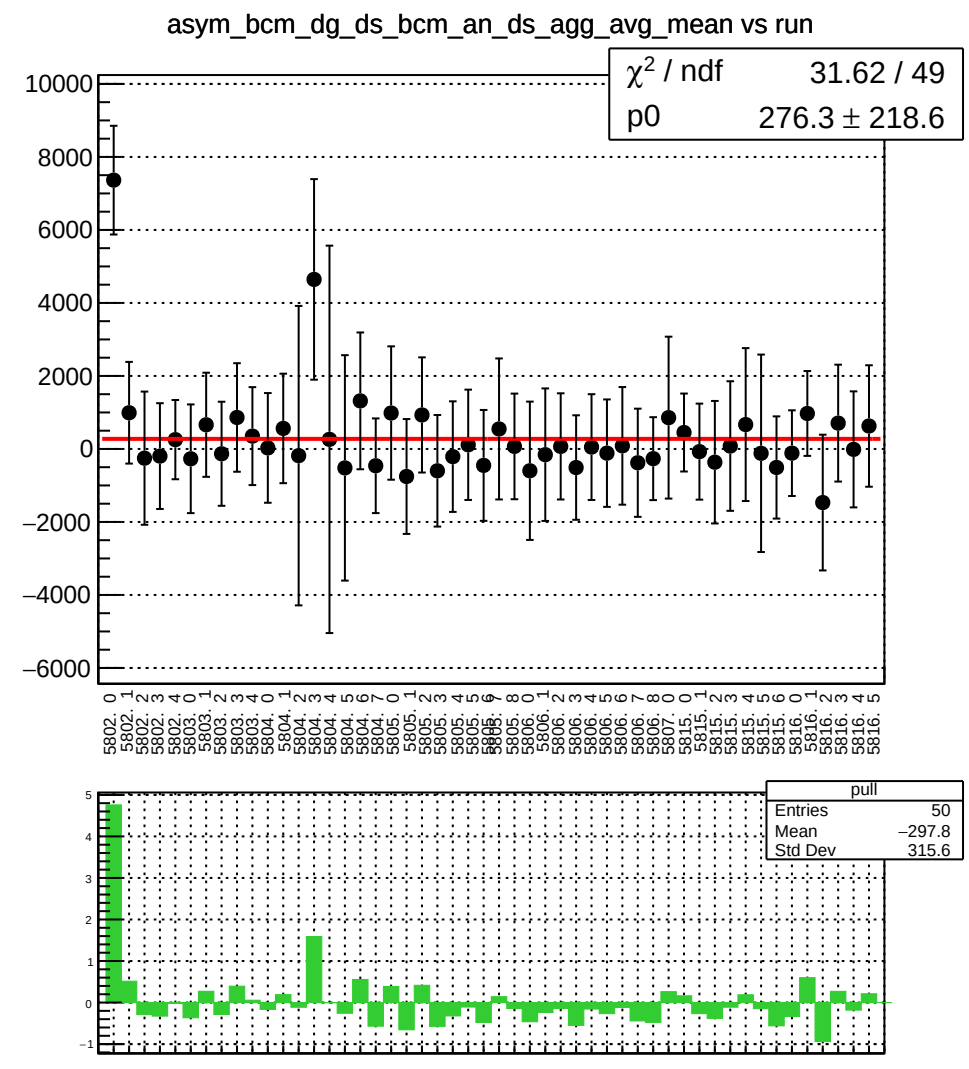
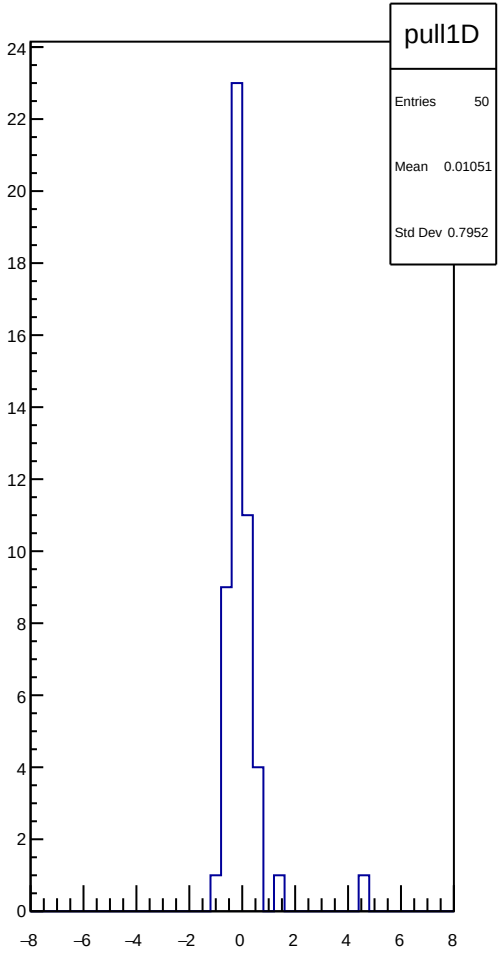
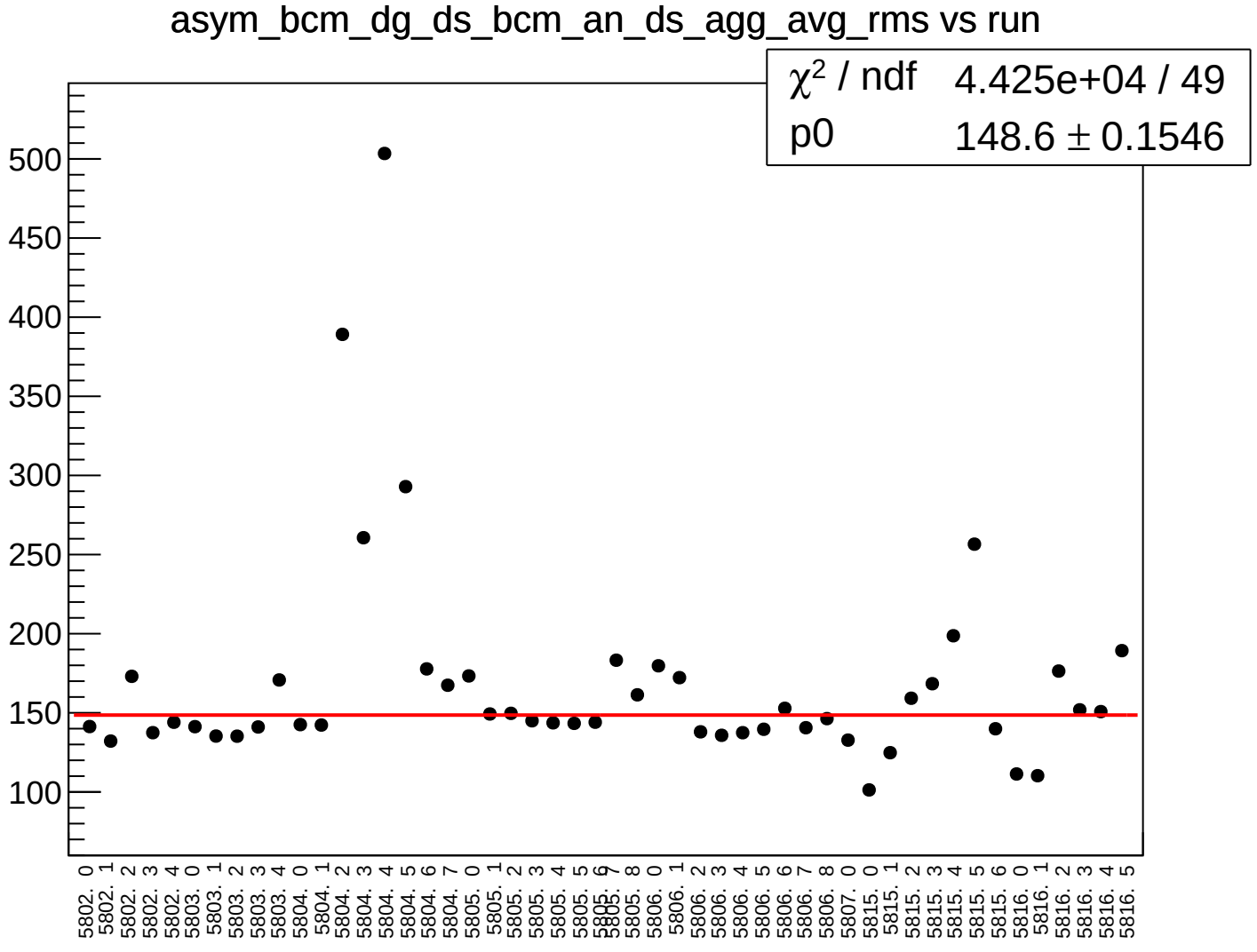
5816. 4
5816. 5


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.62 / 49
p0 276.3 ± 218.6
pull
Entries 50
Mean −297.8
Std Dev 315.6


pull1D
Entries 50
Mean 0.01051
Std Dev 0.7952


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.425e+04 / 49
p0 148.6 ± 0.1546
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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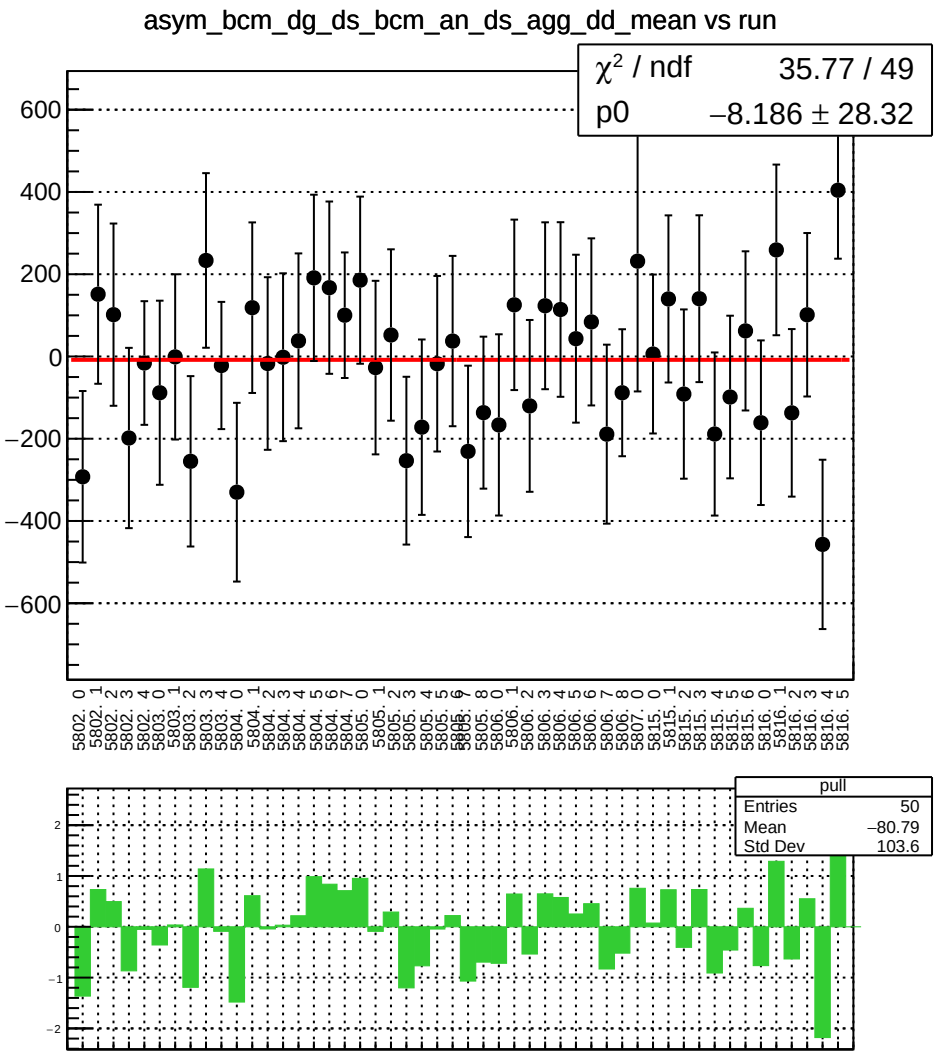
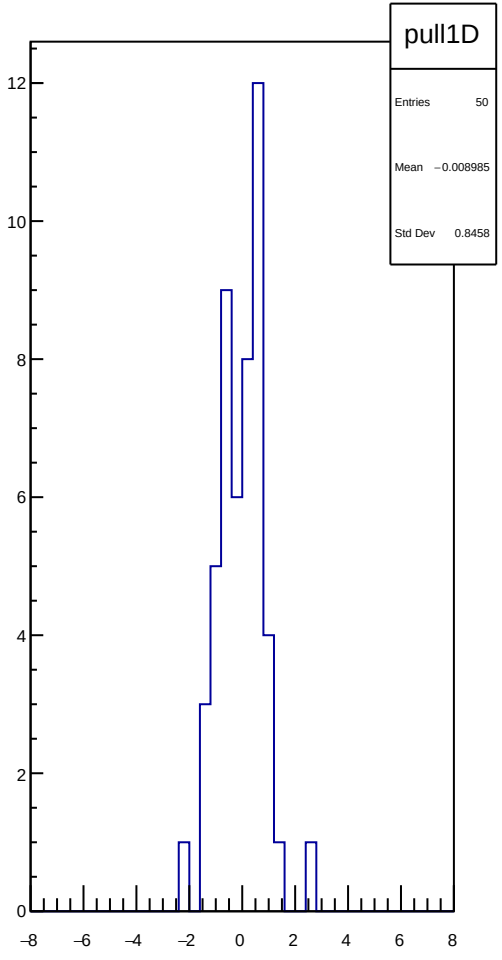
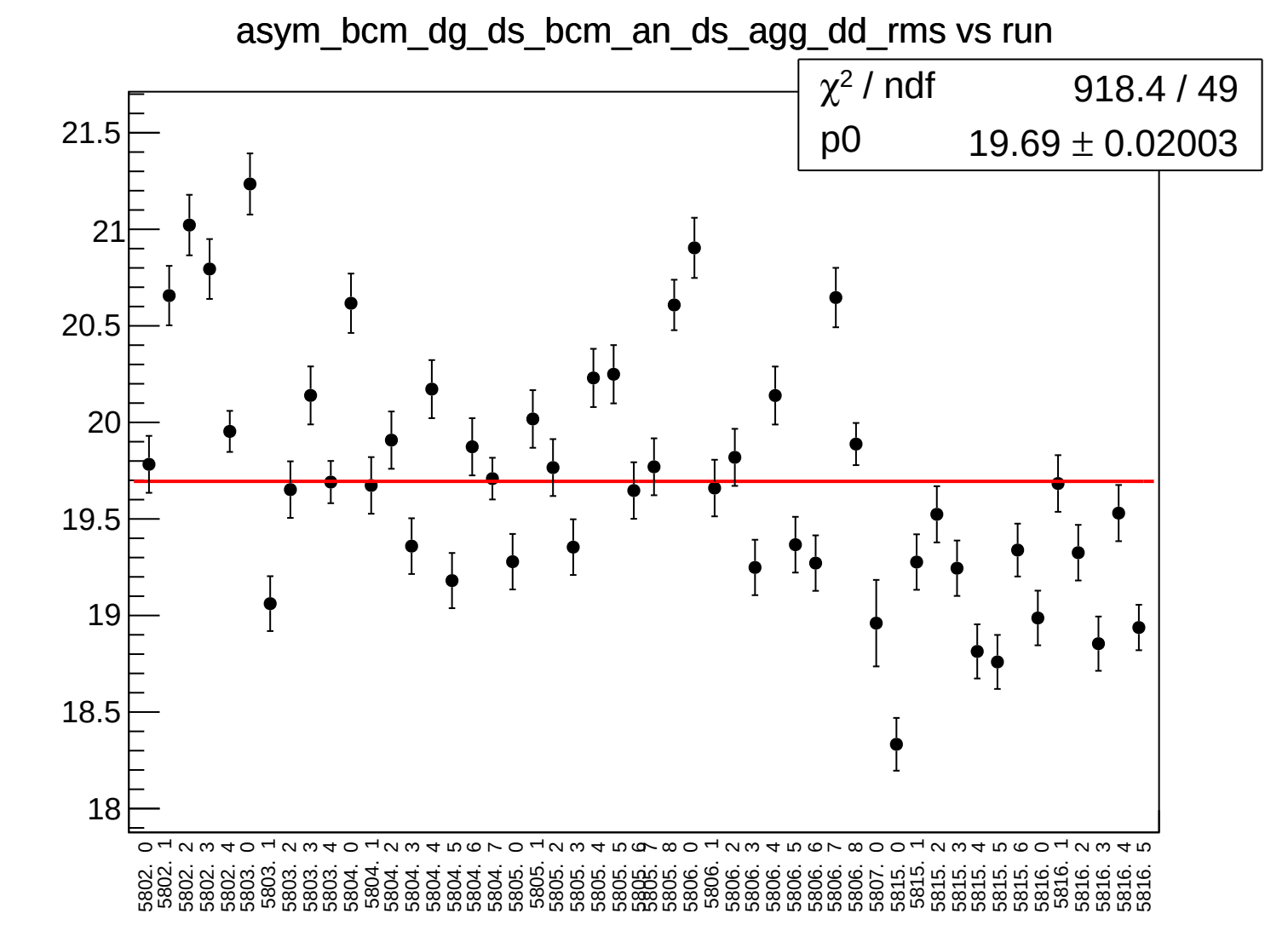
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 35.77 / 49
p0 −8.186 ± 28.32
pull
Entries 50
Mean −80.79
Std Dev 103.6


pull1D
Entries 50
Mean −0.008985
Std Dev 0.8458


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 918.4 / 49
p0 19.69 ± 0.02003
21.5
21
20.5
20
19.5
19
18.5
18
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5806. 8
5807. 0
5815. 0
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5815. 2
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5815. 5
5815. 6
5816. 0
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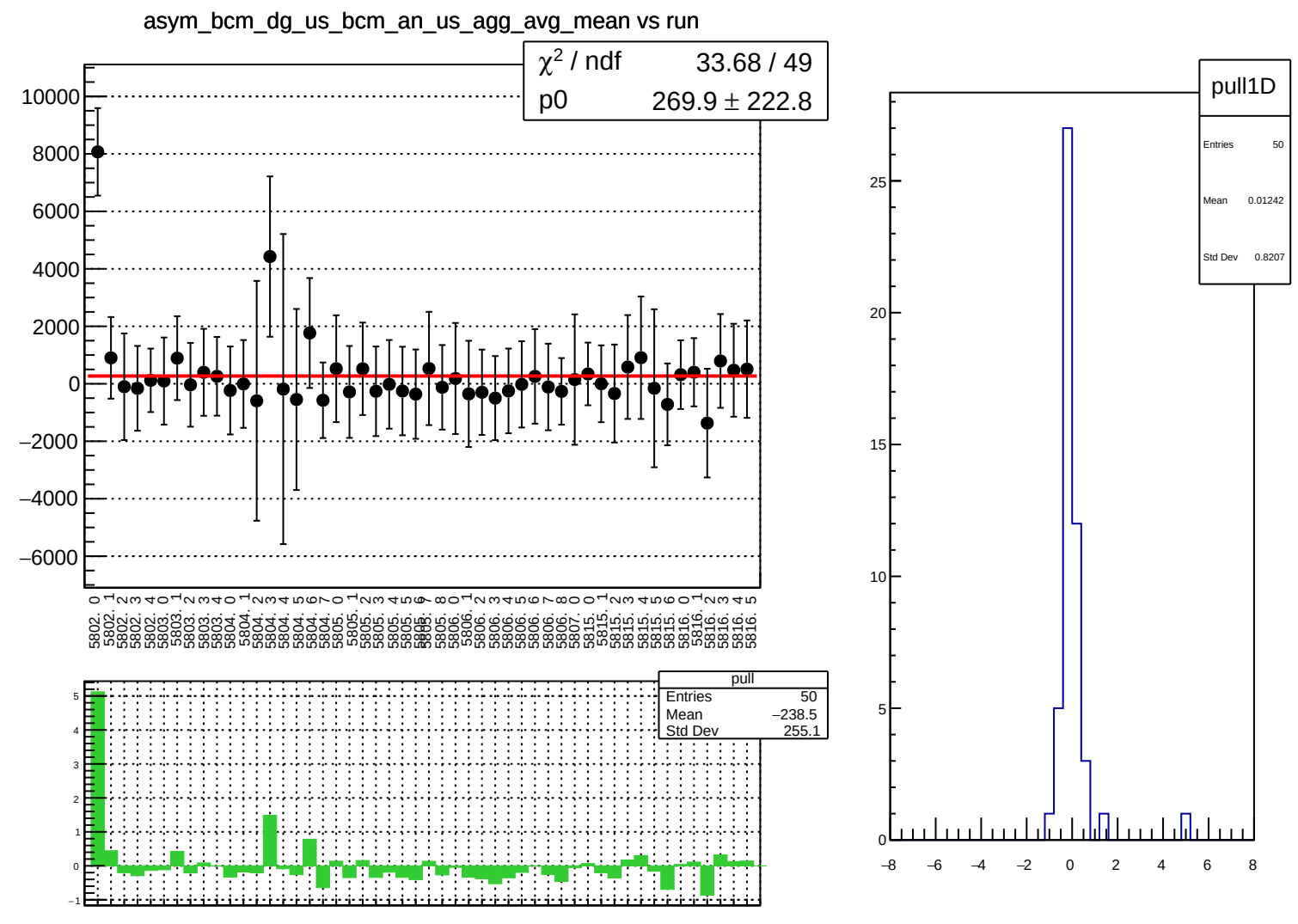
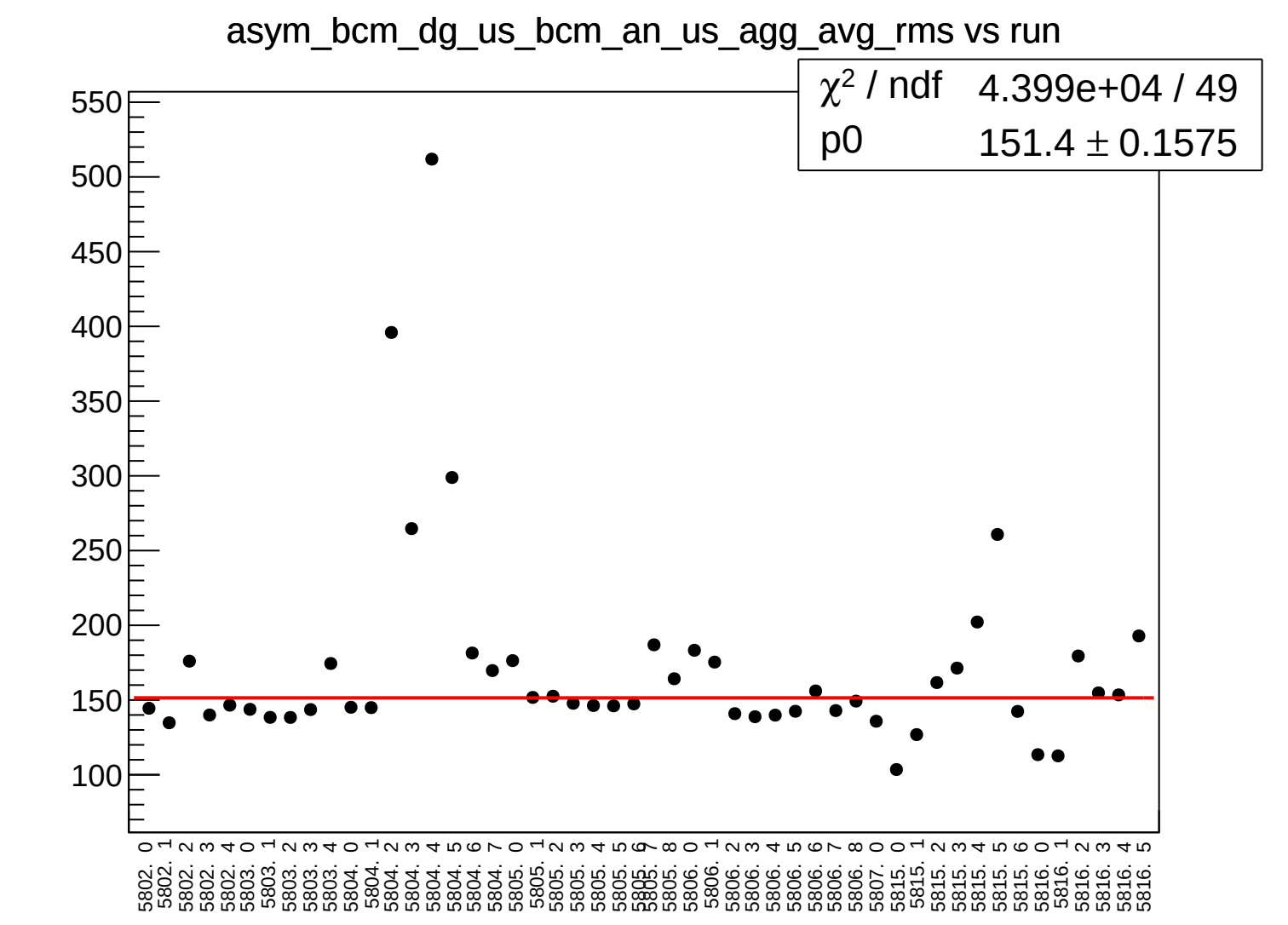
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.68 / 49
p0 269.9 ± 222.8
pull
Entries 50
Mean −238.5
Std Dev 255.1
pull1D
Entries 50
Mean 0.01242
Std Dev 0.8207


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.399e+04 / 49
p0 151.4 ± 0.1575
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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5816. 2
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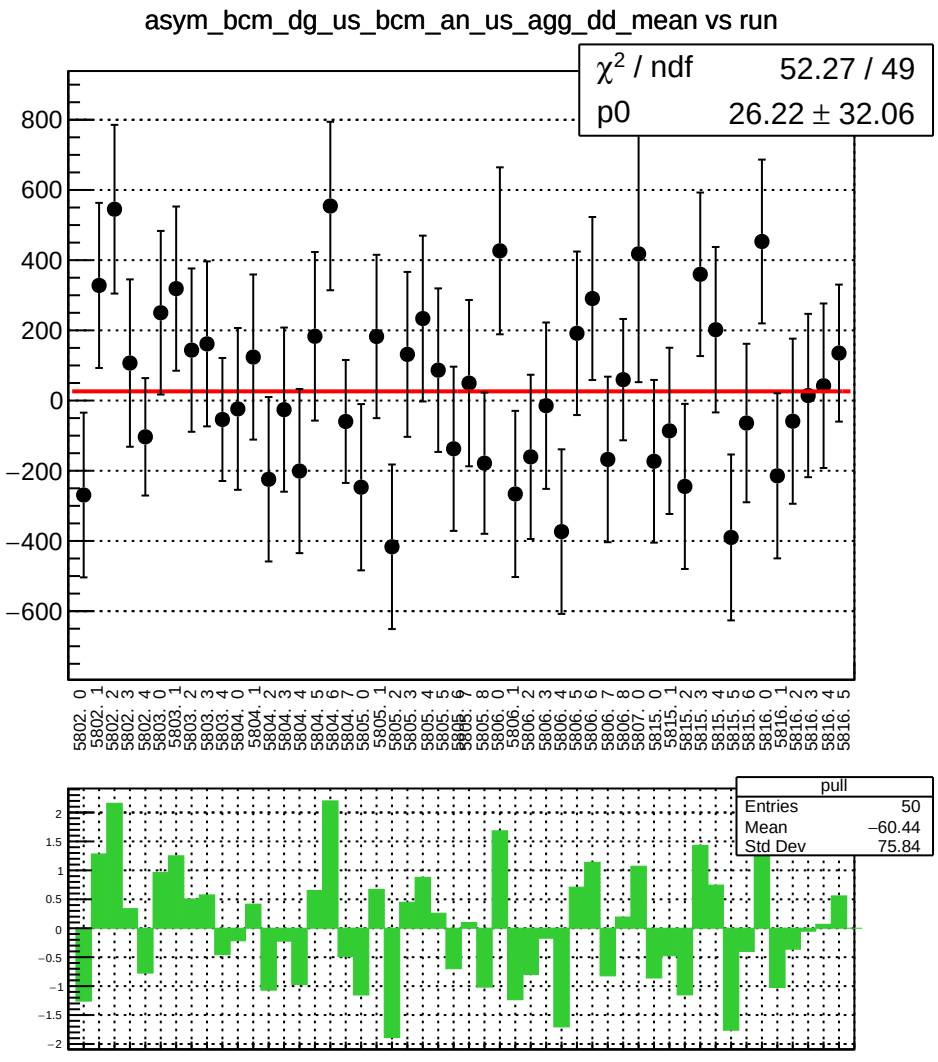
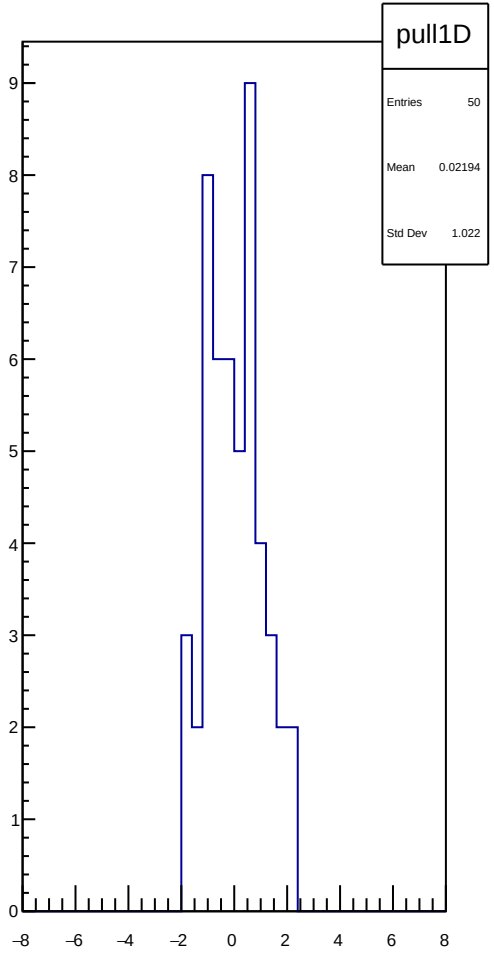
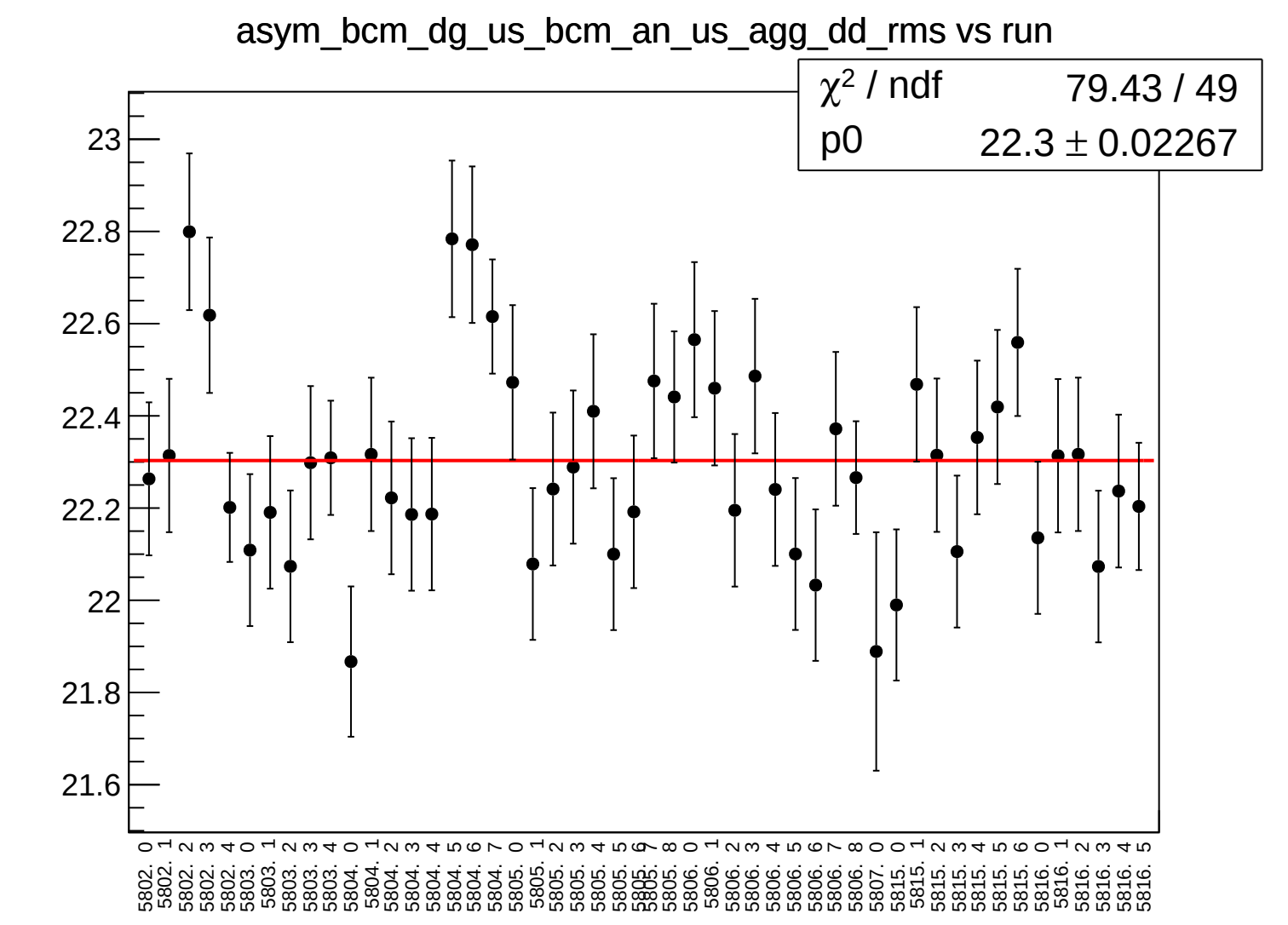
5816. 4
5816. 5


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 52.27 / 49
p0 26.22 ± 32.06
pull
Entries 50
Mean −60.44
Std Dev 75.84


pull1D
Entries 50
Mean 0.02194
Std Dev 1.022


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 79.43 / 49
p0 22.3 ± 0.02267
23
22.8
22.6
22.4
22.2
22
21.8
21.6
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
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5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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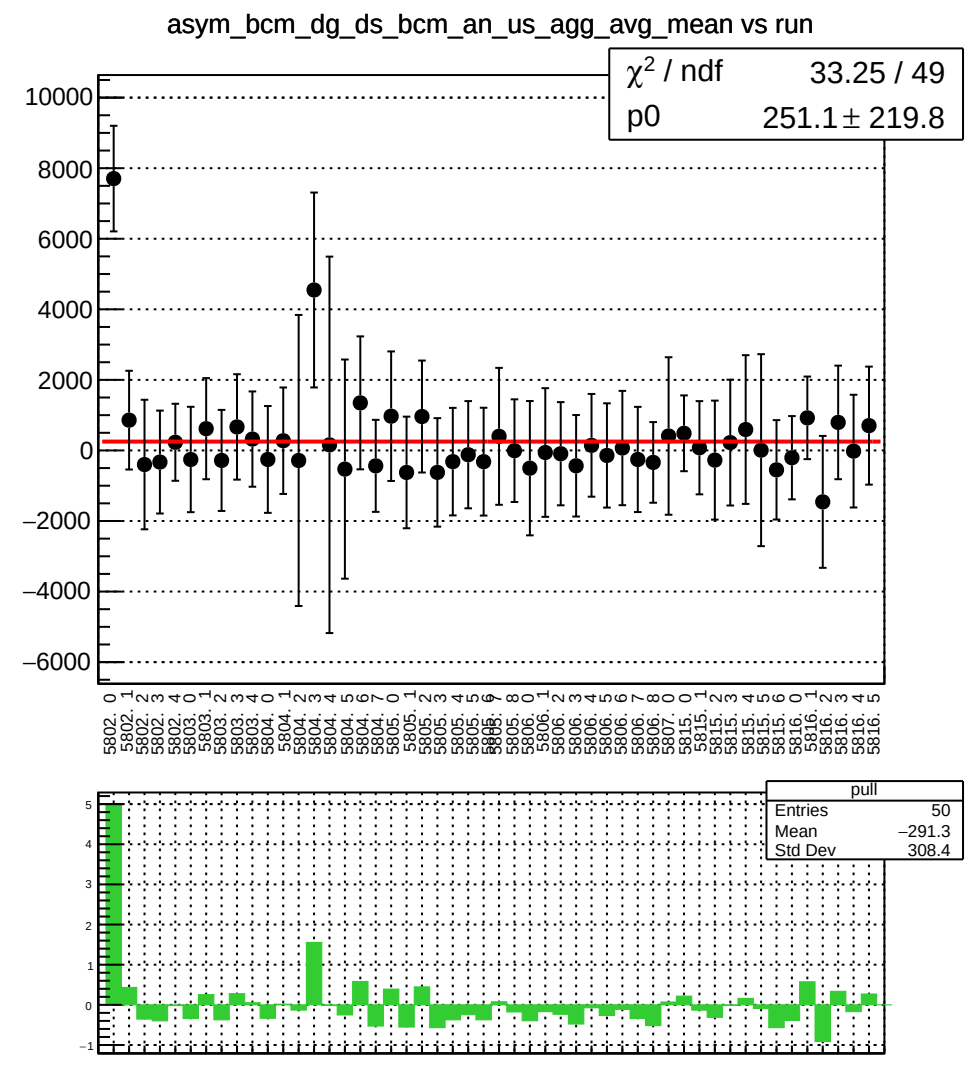
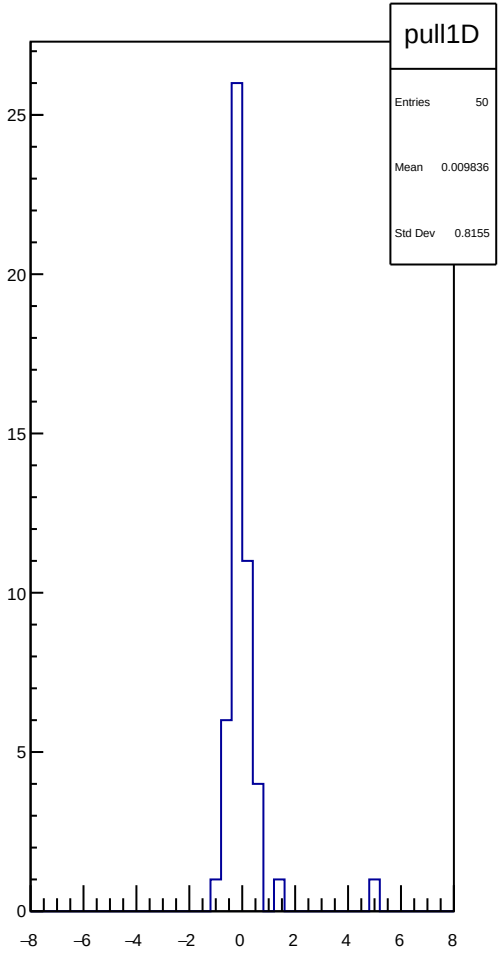
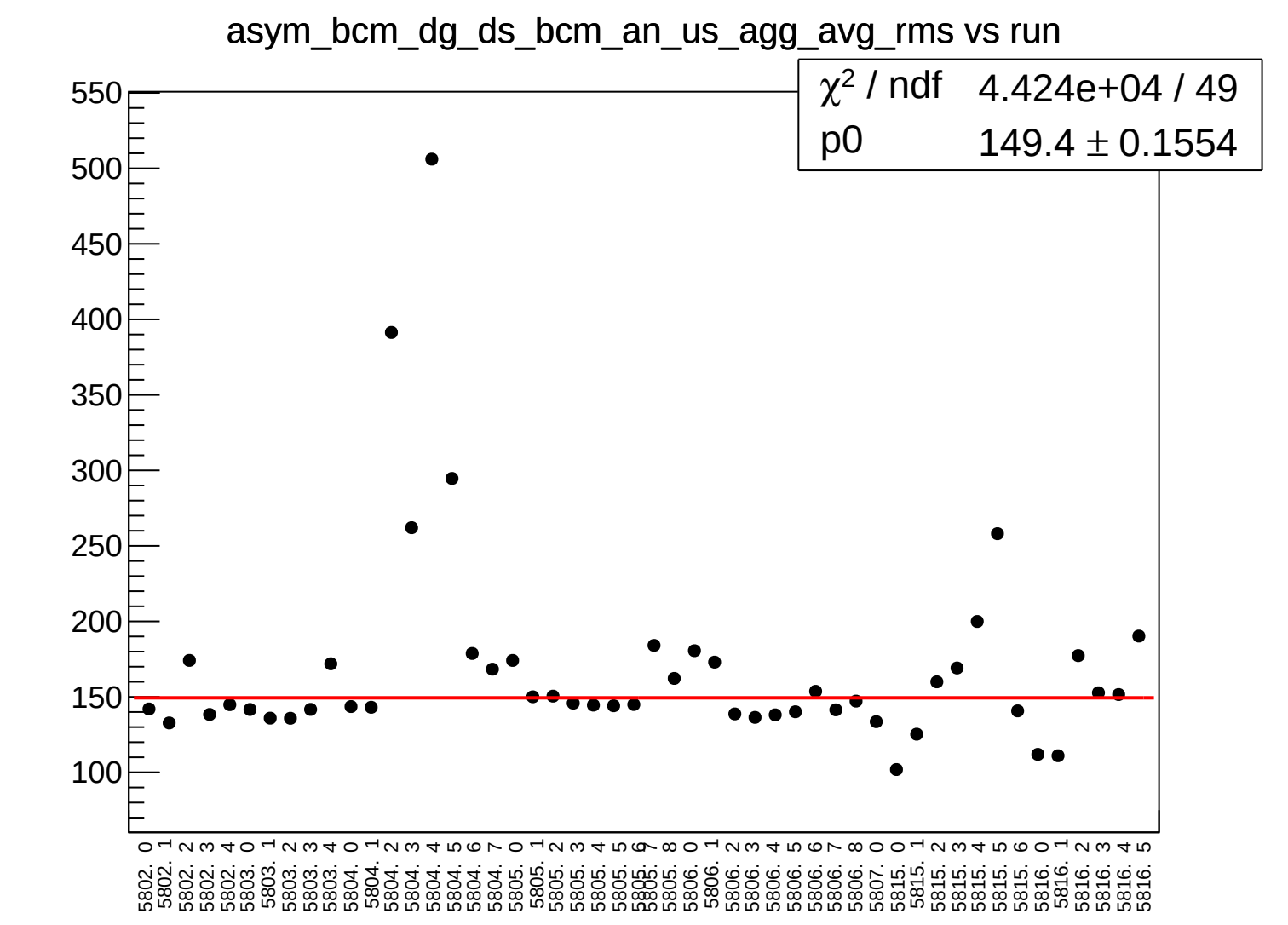
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.25 / 49
p0 251.1 ± 219.8
pull
Entries 50
Mean −291.3
Std Dev 308.4


pull1D
Entries 50
Mean 0.009836
Std Dev 0.8155


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.424e+04 / 49
p0 149.4 ± 0.1554
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 4
5804. 0
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5804. 7
5805. 0
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5805. 8
5806. 0
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5806. 5
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5806. 8
5807. 0
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5815. 1
5815. 2
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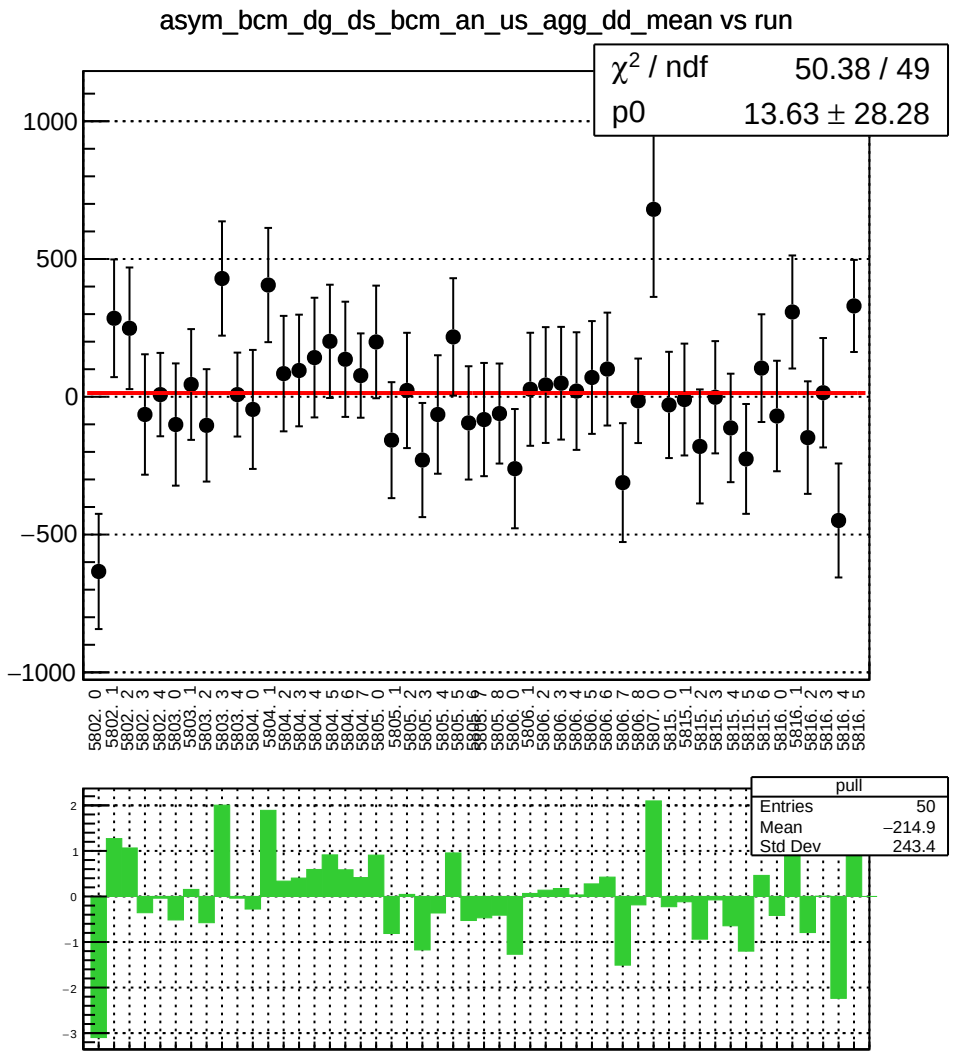
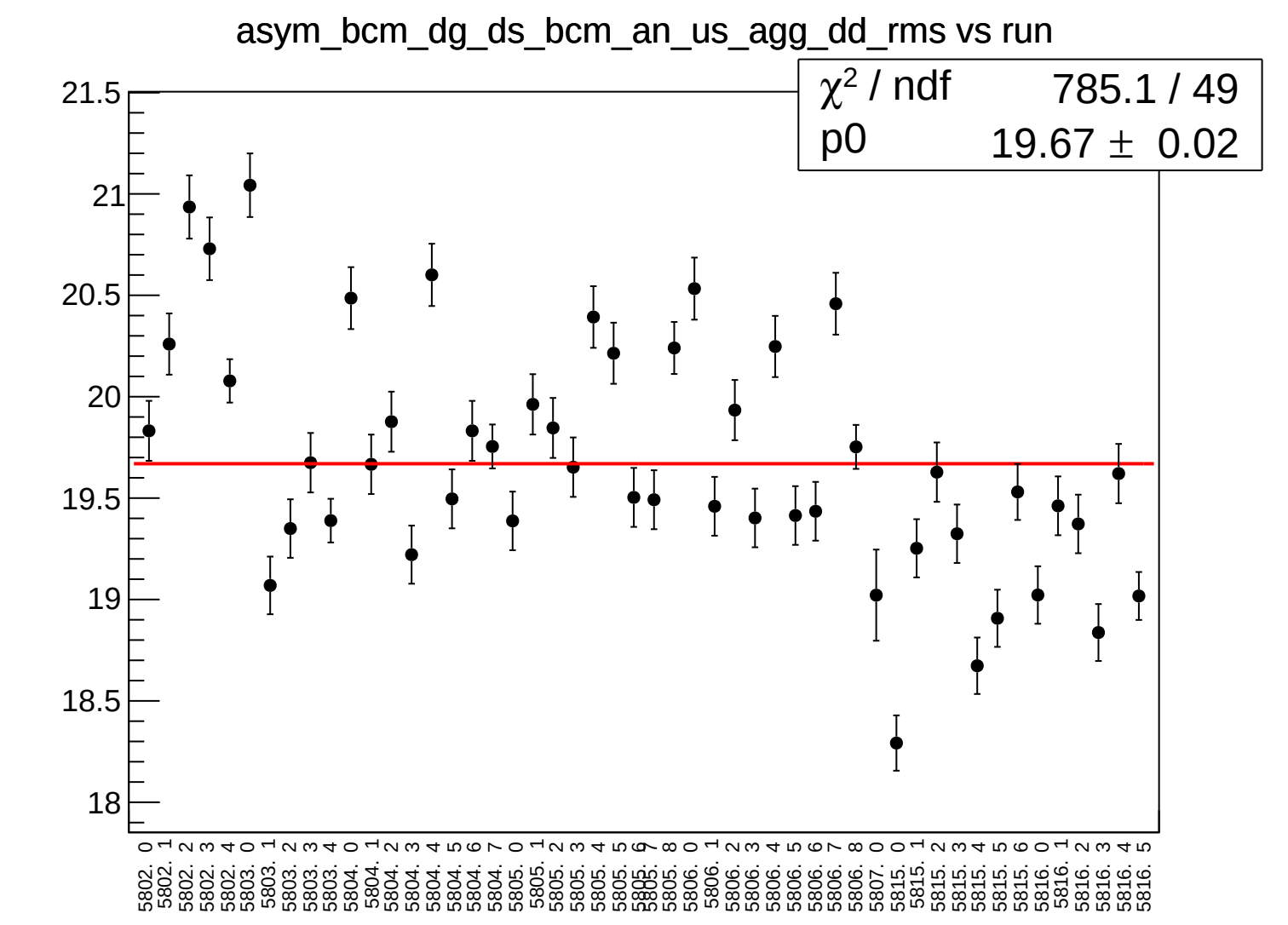
5816. 5


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 50.38 / 49
p0 13.63 ± 28.28
1000
500
0
−500
−1000
pull
Entries 50
Mean −214.9
Std Dev 243.4
pull1D
Entries 50
Mean 0.005696
Std Dev 1.004


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 785.1 / 49
p0 19.67 ± 0.02
21.5
21
20.5
20
19.5
19
18.5
18
5802. 0
5802. 1
5802. 2
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5802. 4
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5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
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5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 3
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5805. 6
5805. 7
5805. 8
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5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
5816. 0
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5816. 2
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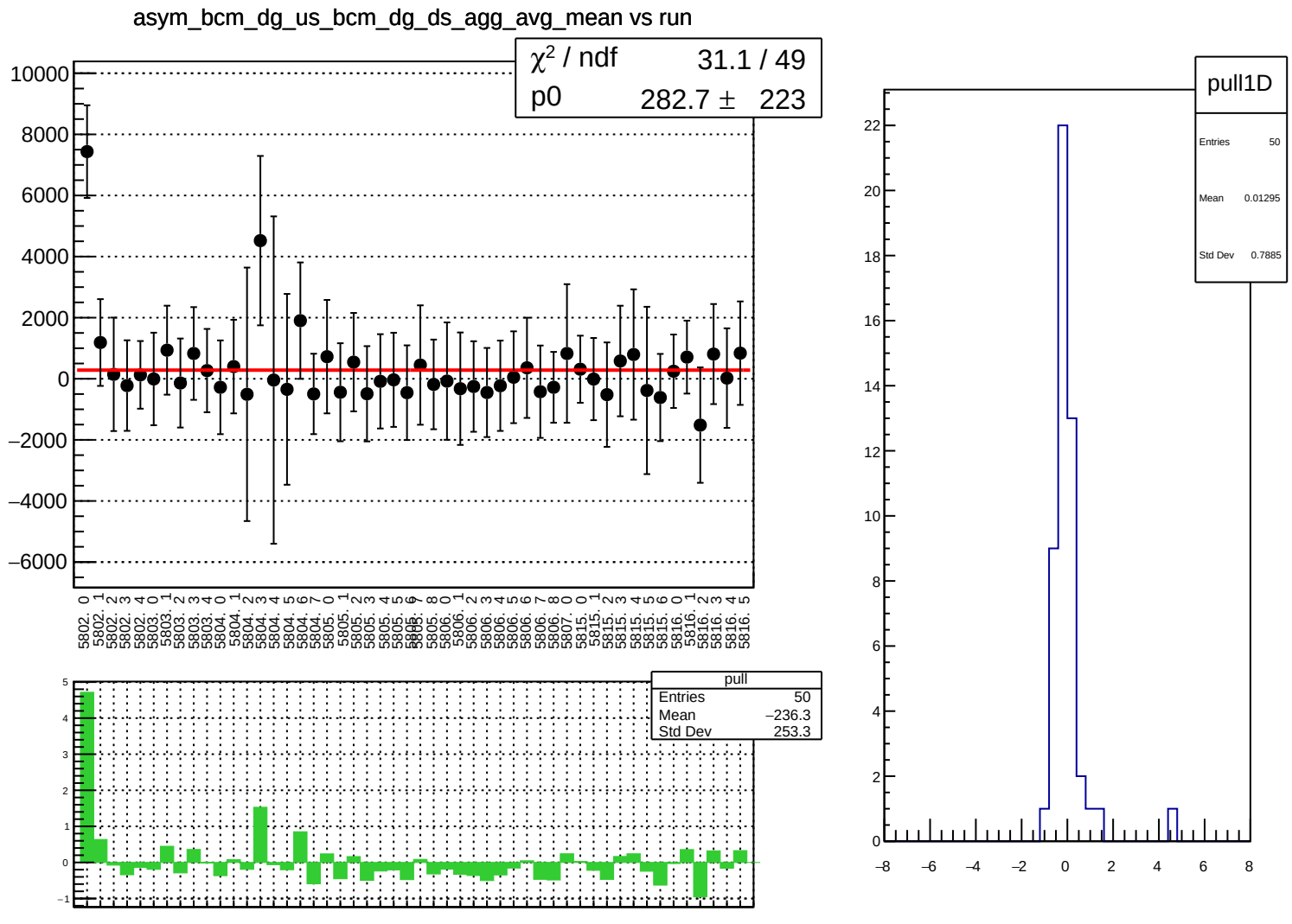
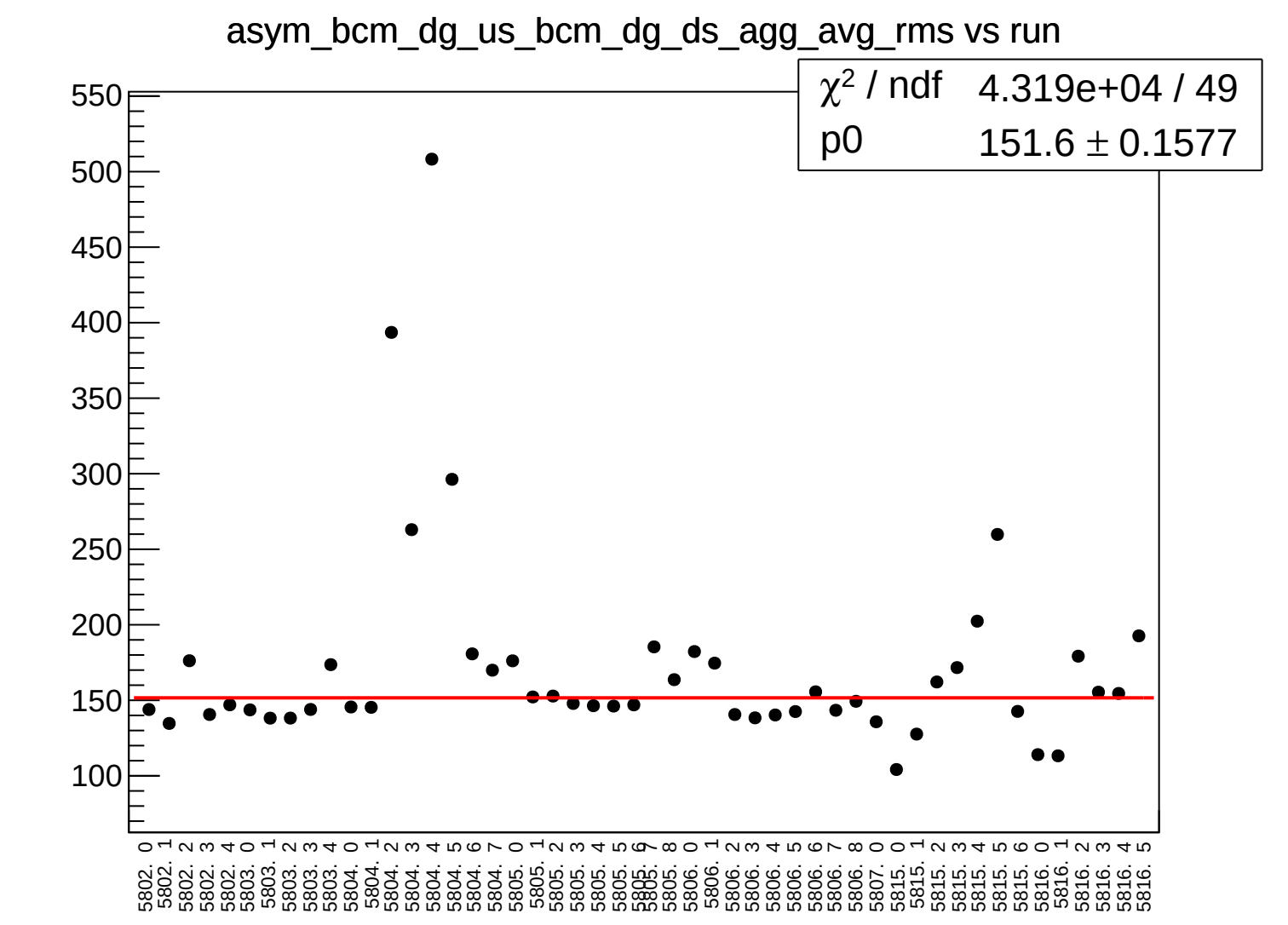
5816. 4
5816. 5


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 31.1 / 49
p0 282.7 ± 223
pull
Entries 50
Mean −236.3
Std Dev 253.3
pull1D
Entries 50
Mean 0.01295
Std Dev 0.7885


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.319e+04 / 49
p0 151.6 ± 0.1577
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5804. 0
5804. 1
5804. 2
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5805. 8
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5807. 0
5815. 0
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5815. 2
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5815. 5
5815. 6
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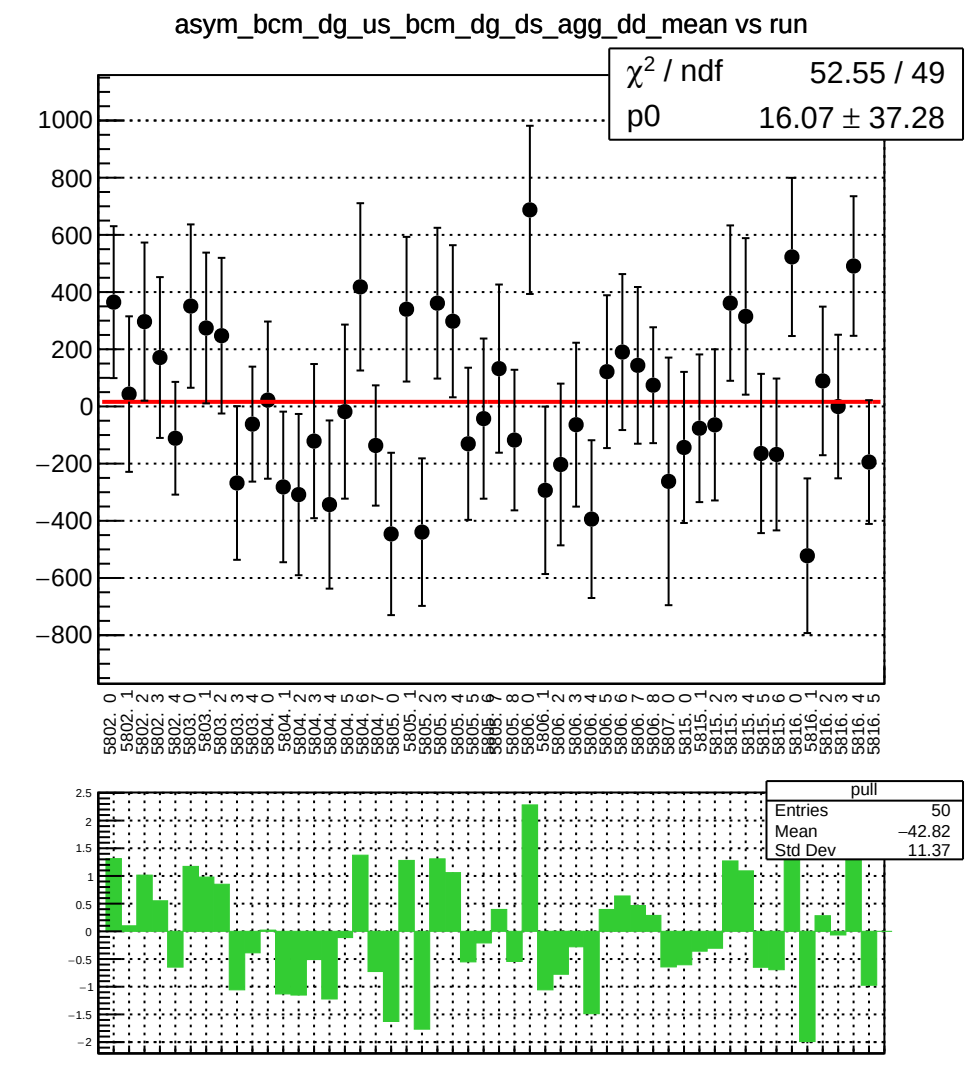
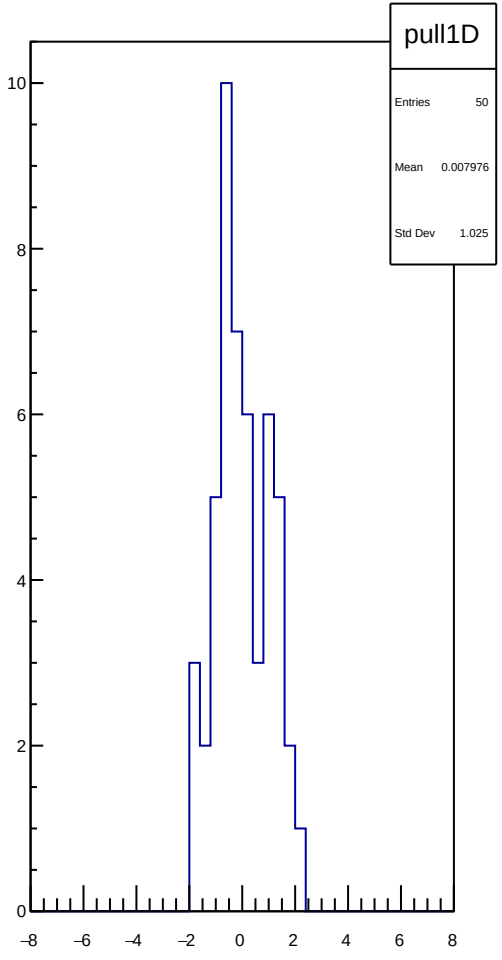
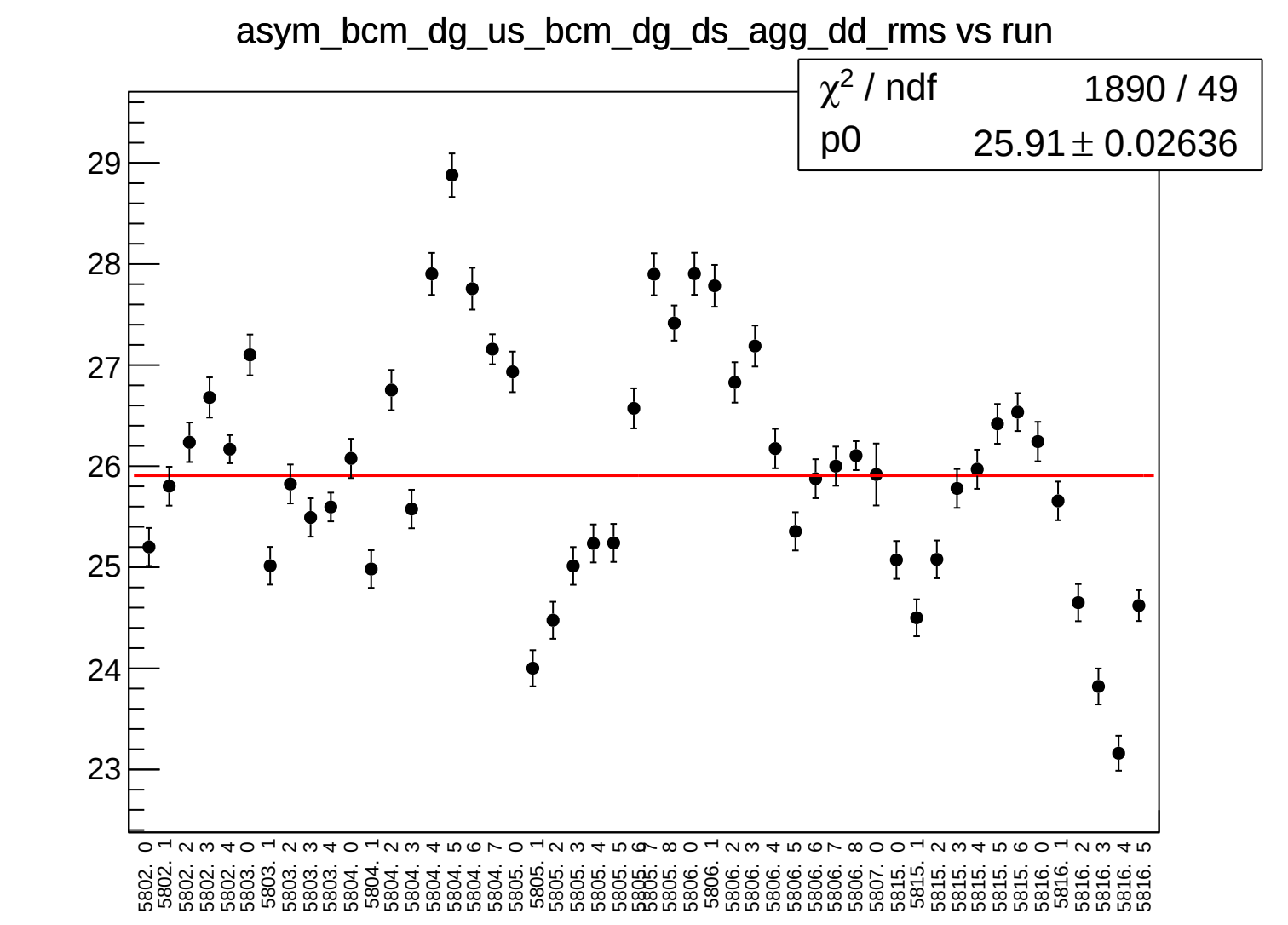
5816. 4
5816. 5


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 52.55 / 49
p0 16.07 ± 37.28
pull
Entries 50
Mean −42.82
Std Dev 11.37


pull1D
Entries 50
Mean 0.007976
Std Dev 1.025


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1890 / 49
p0 25.91 ± 0.02636
29
28
27
26
25
24
23
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
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5805. 8
5806. 0
5806. 1
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5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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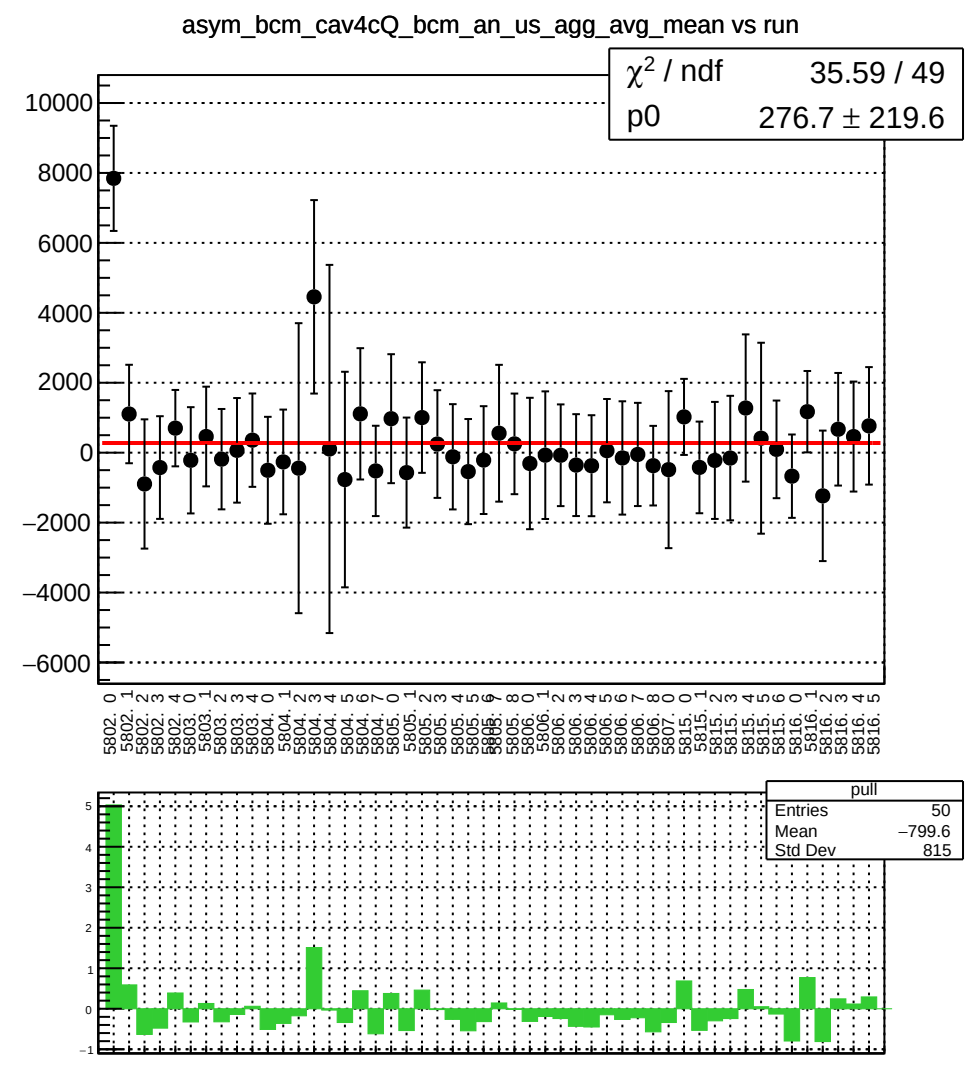
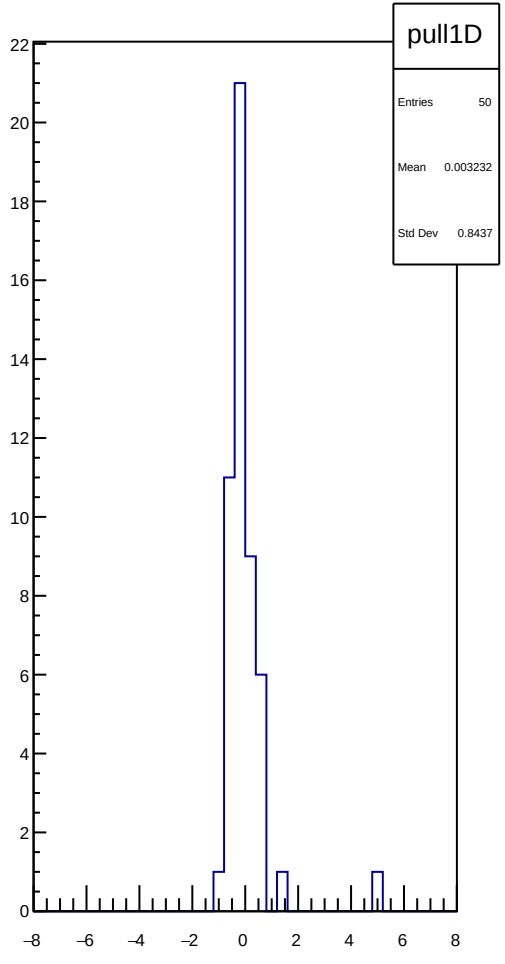
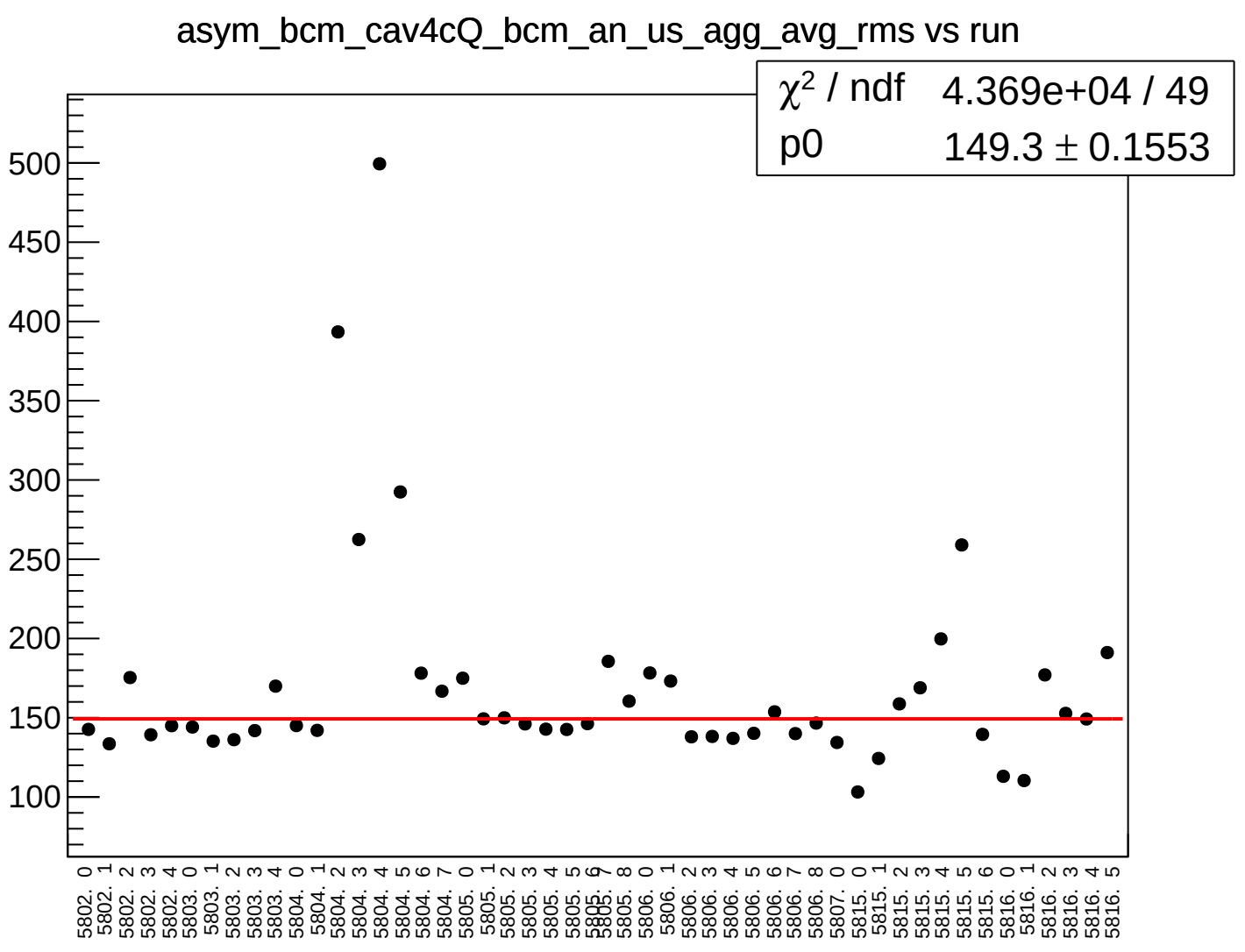
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 35.59 / 49
p0 276.7 ± 219.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean −799.6
Std Dev 815
5
4
3
2
1
0
−1


pull1D
Entries 50
Mean 0.003232
Std Dev 0.8437
22
20
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 4.369e+04 / 49
p0 149.3 ± 0.1553
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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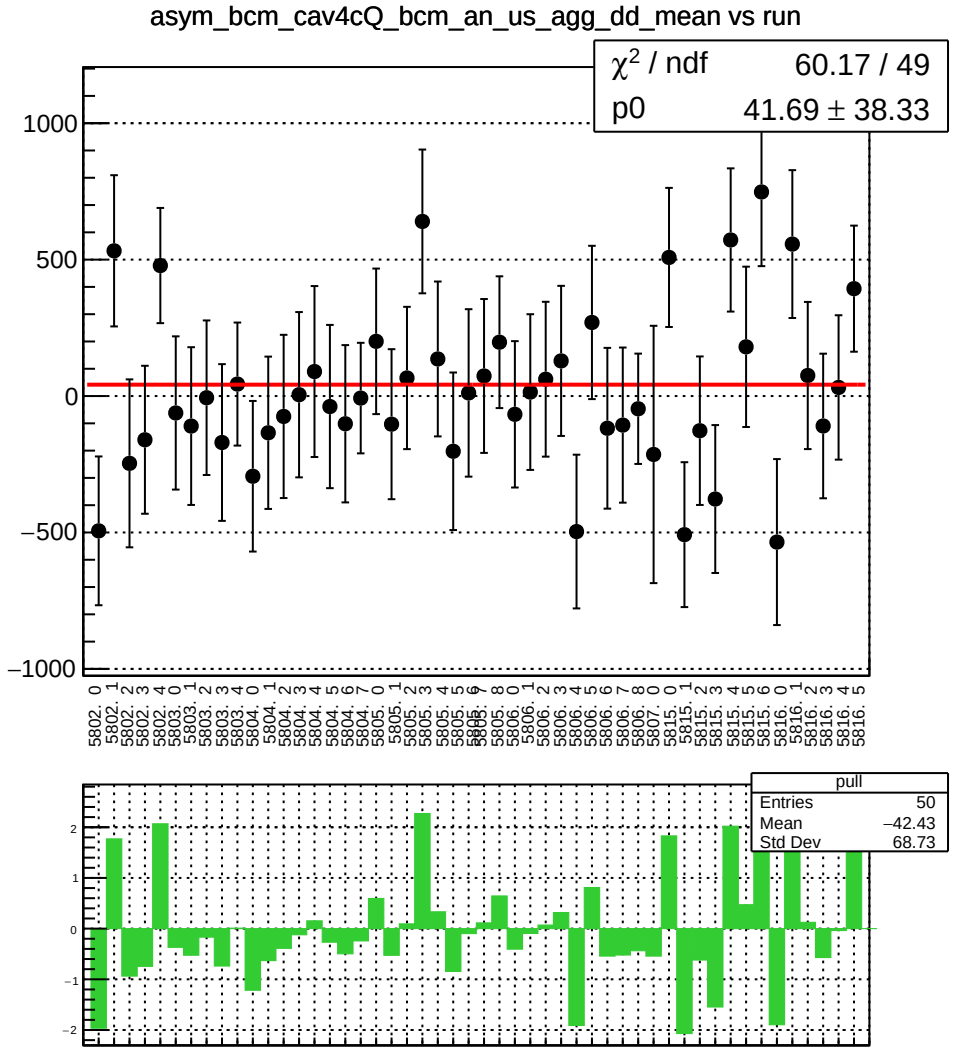
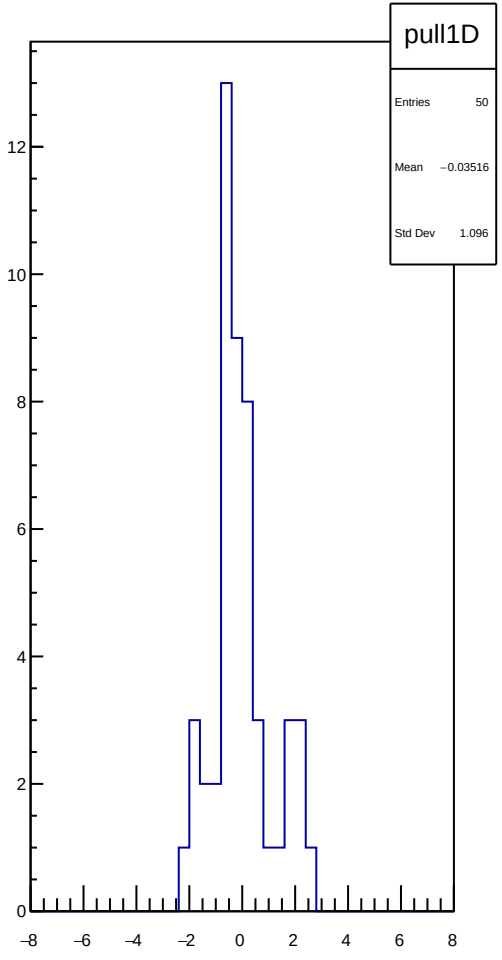
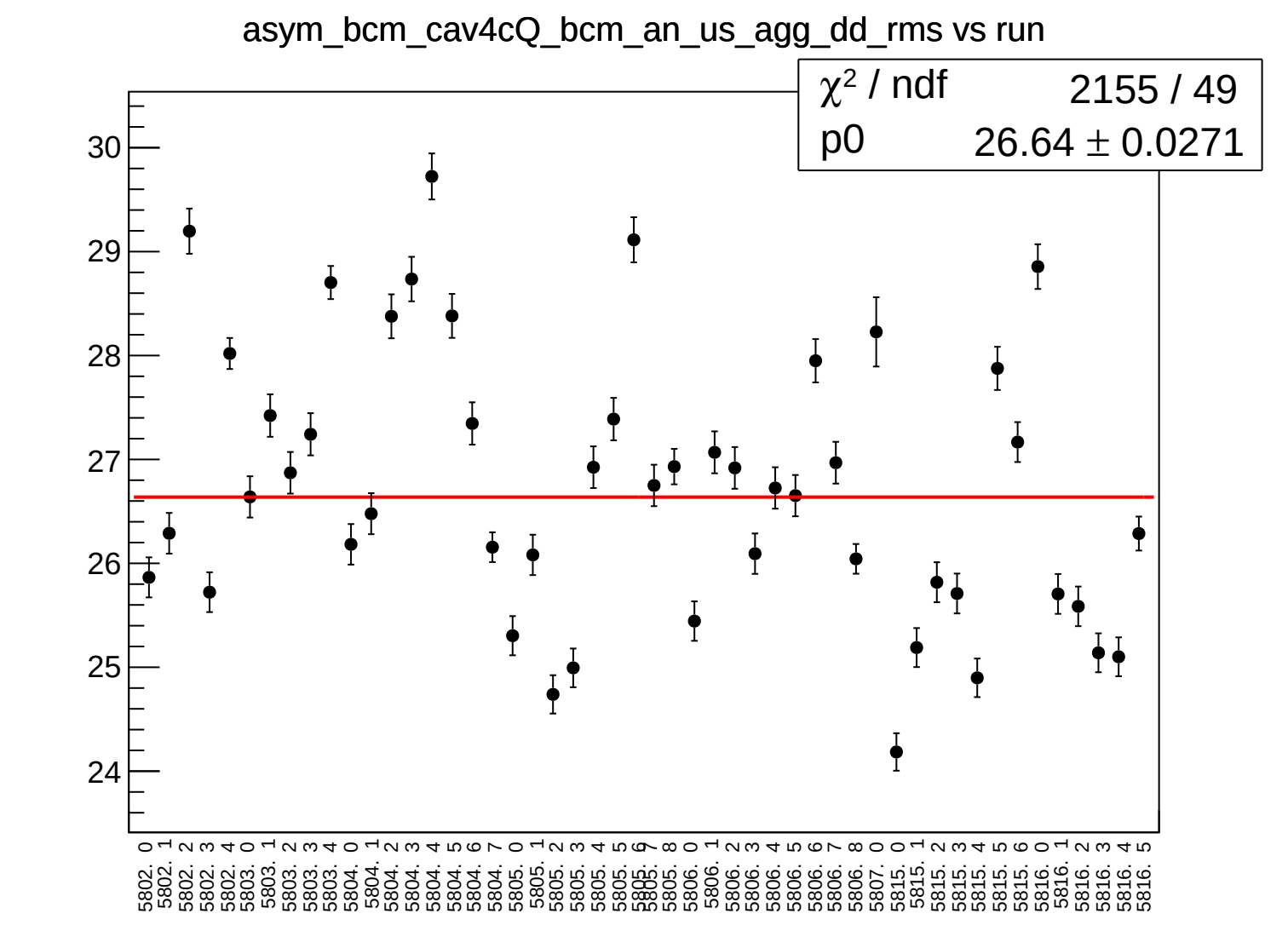
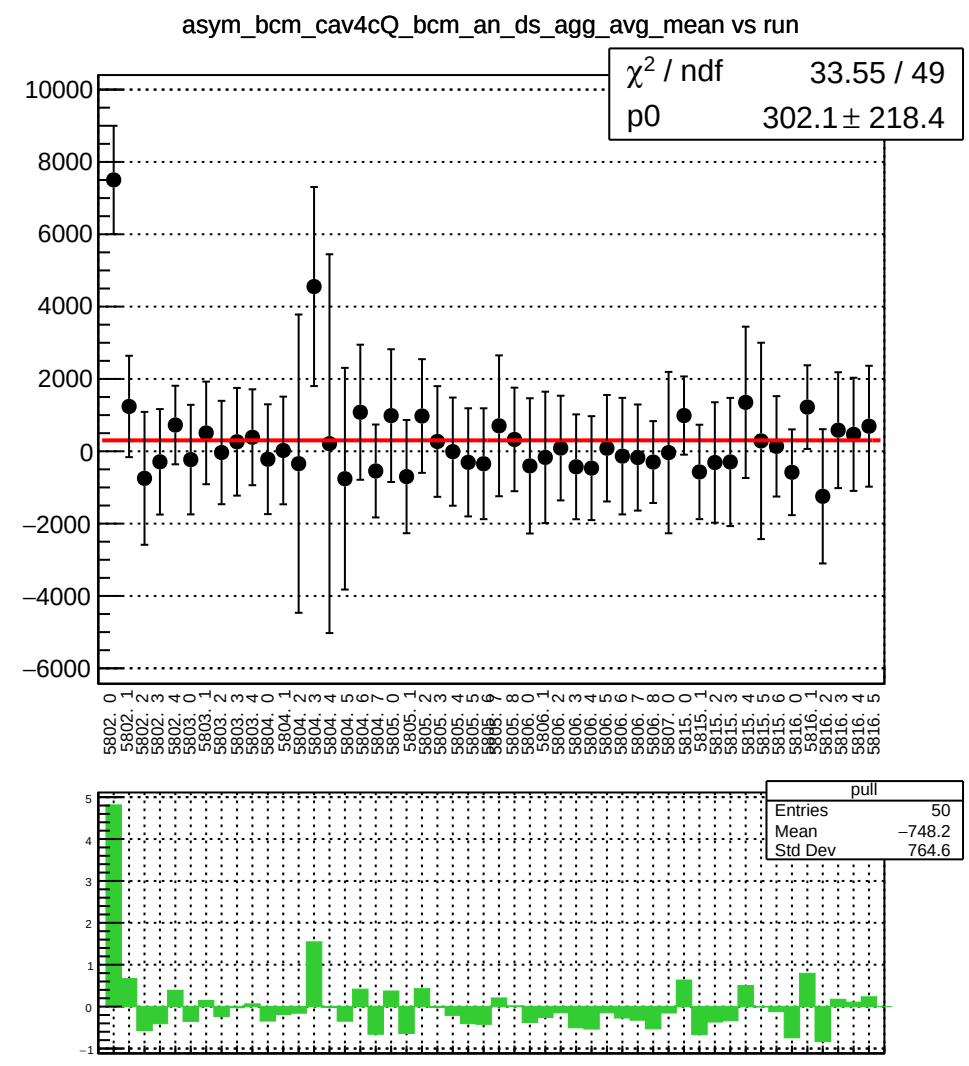
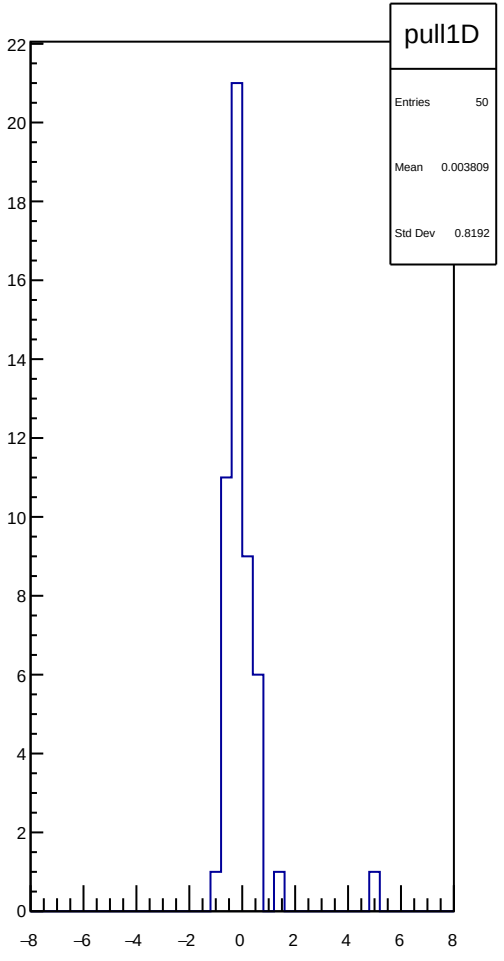
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

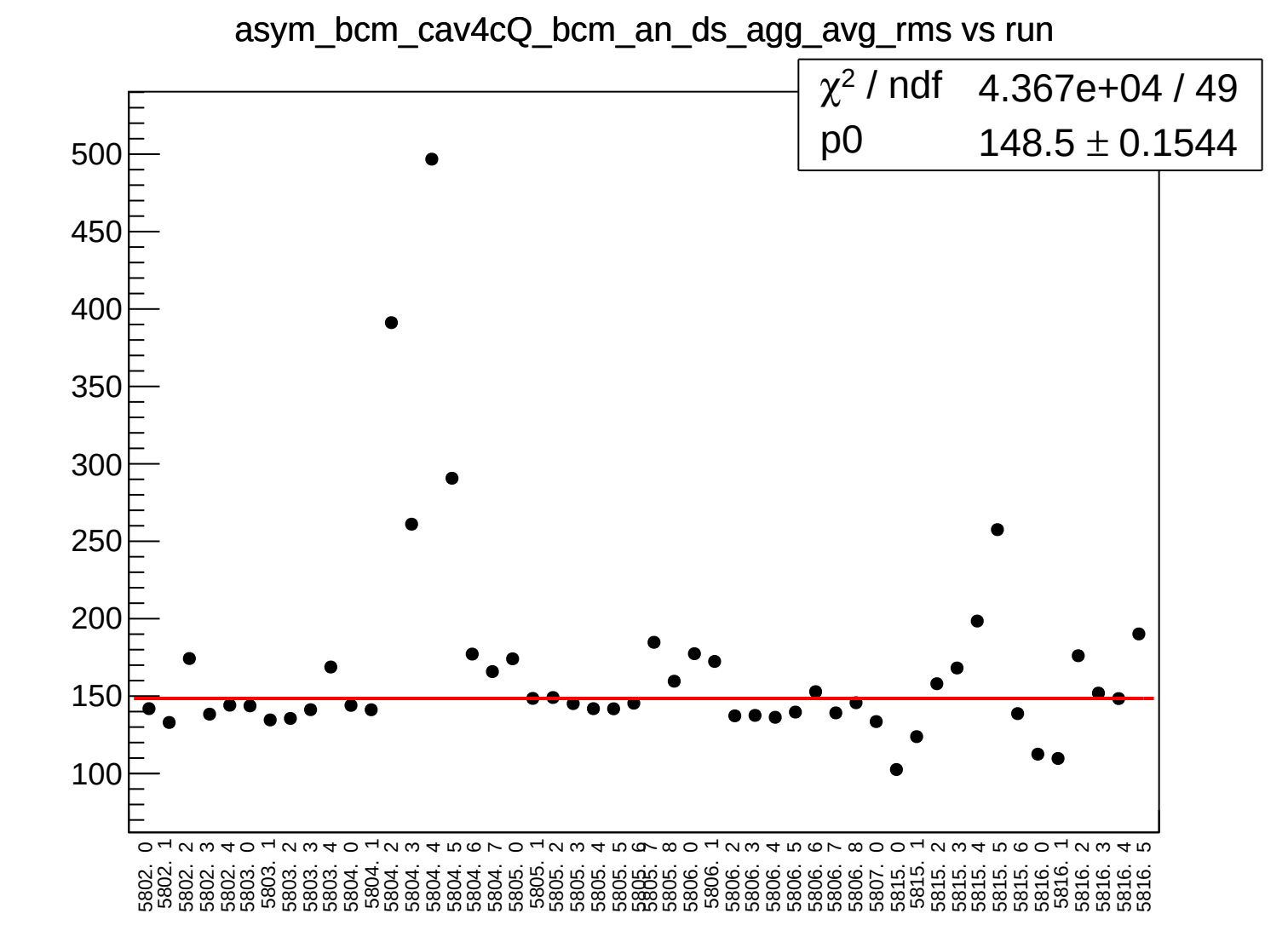

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 60.17 / 49
p0 41.69 ± 38.33
1000
500
0
−500
−1000
pull
Entries 50
Mean −42.43
Std Dev 68.73
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.03516
Std Dev 1.096
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 2155 / 49
p0 26.64 ± 0.0271
30
29
28
27
26
25
24
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.55 / 49
p0 302.1 ± 218.4
pull
Entries 50
Mean −748.2
Std Dev 764.6


pull1D
Entries 50
Mean 0.003809
Std Dev 0.8192


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.367e+04 / 49
p0 148.5 ± 0.1544
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
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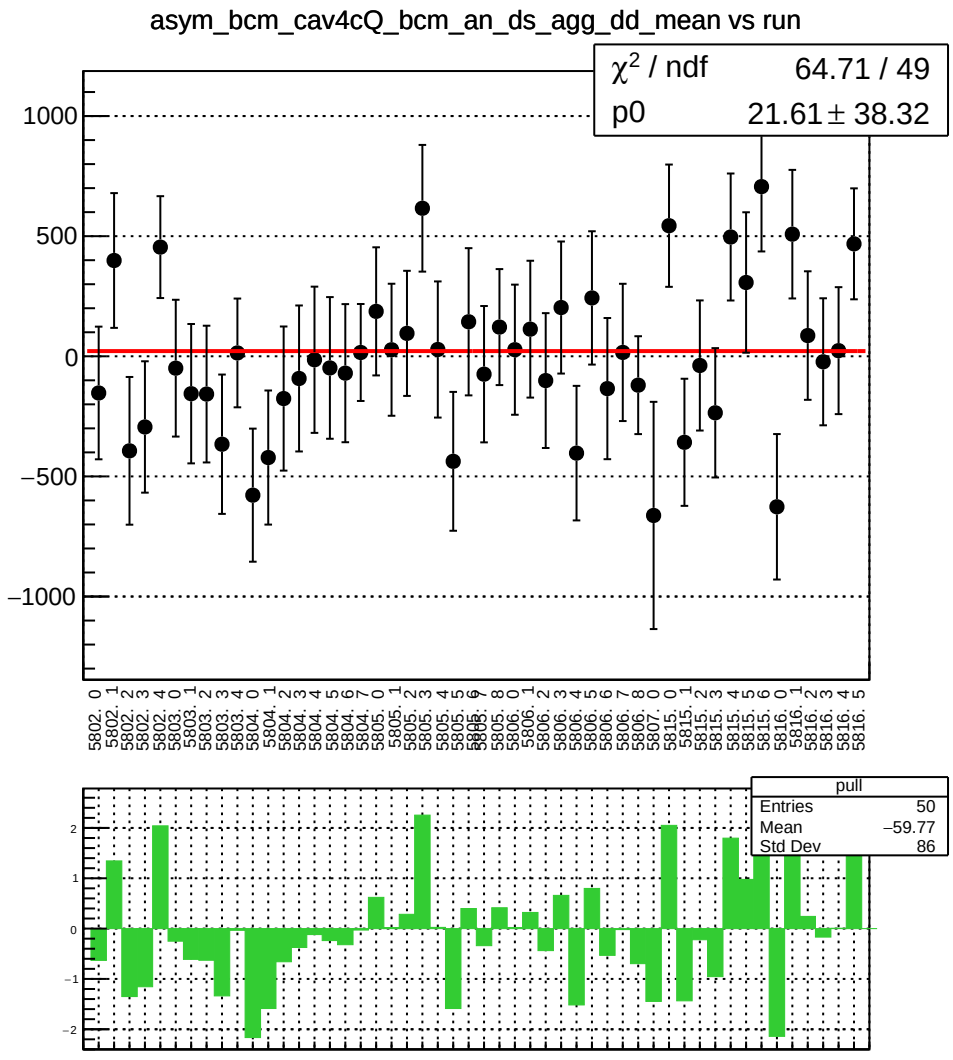
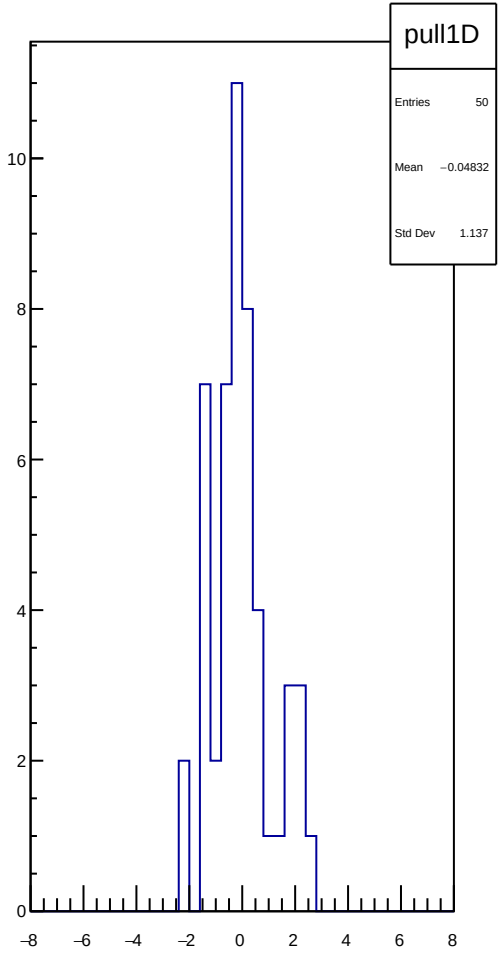
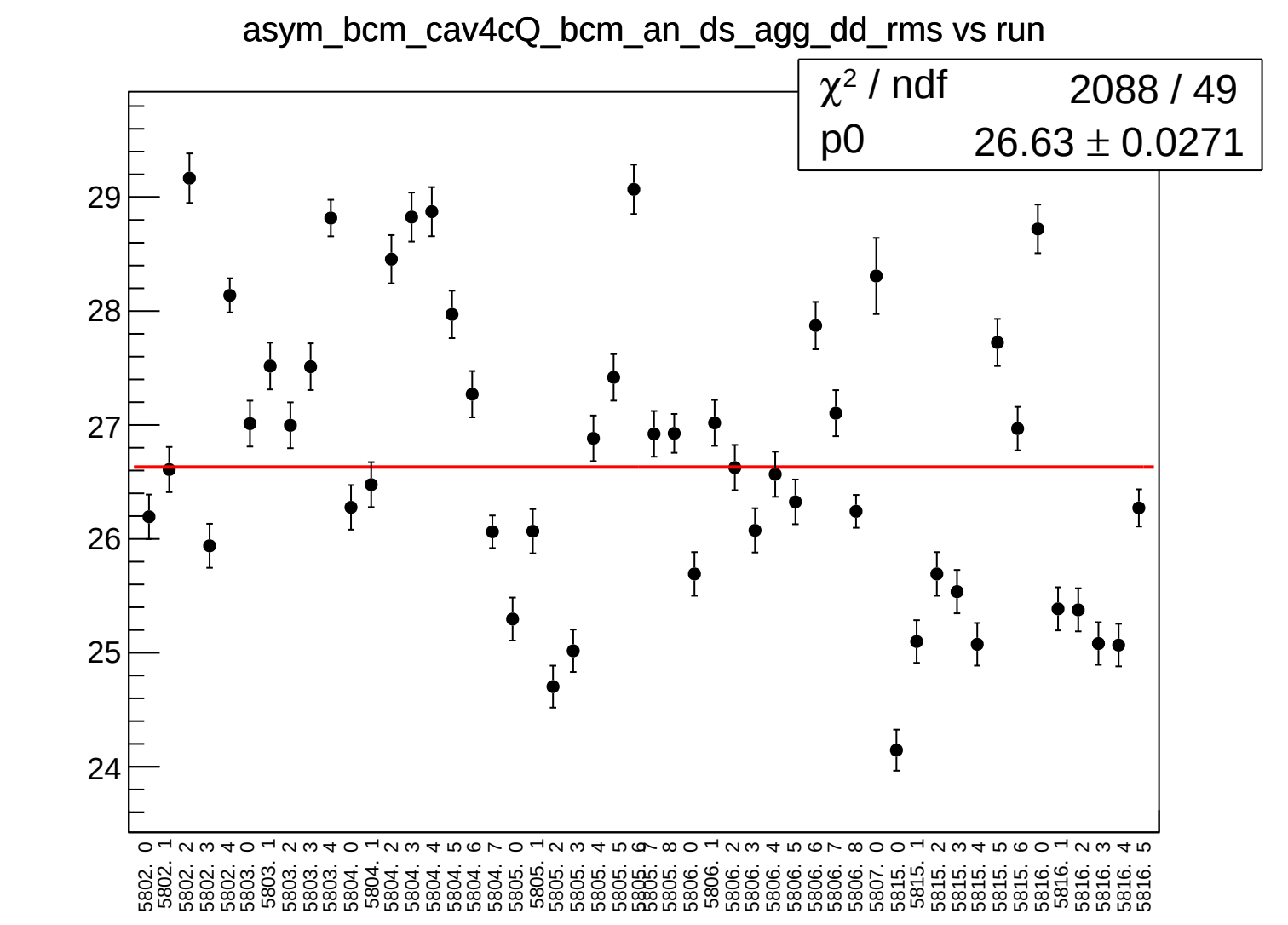
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.71 / 49
p0 21.61 ± 38.32
1000
500
0
−500
−1000
pull
Entries 50
Mean −59.77
Std Dev 86
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.04832
Std Dev 1.137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2088 / 49
p0 26.63 ± 0.0271
29
28
27
26
25
24
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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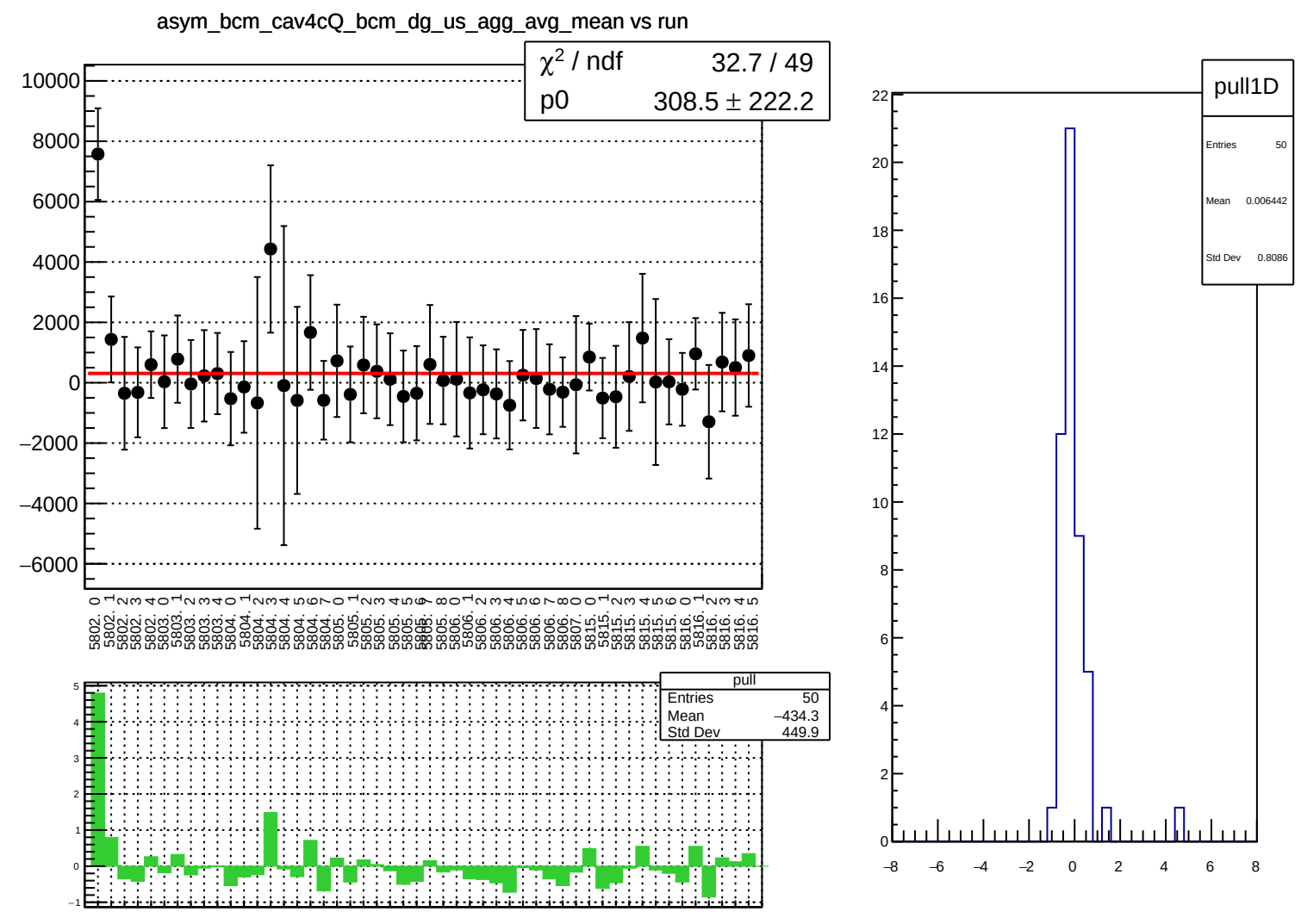
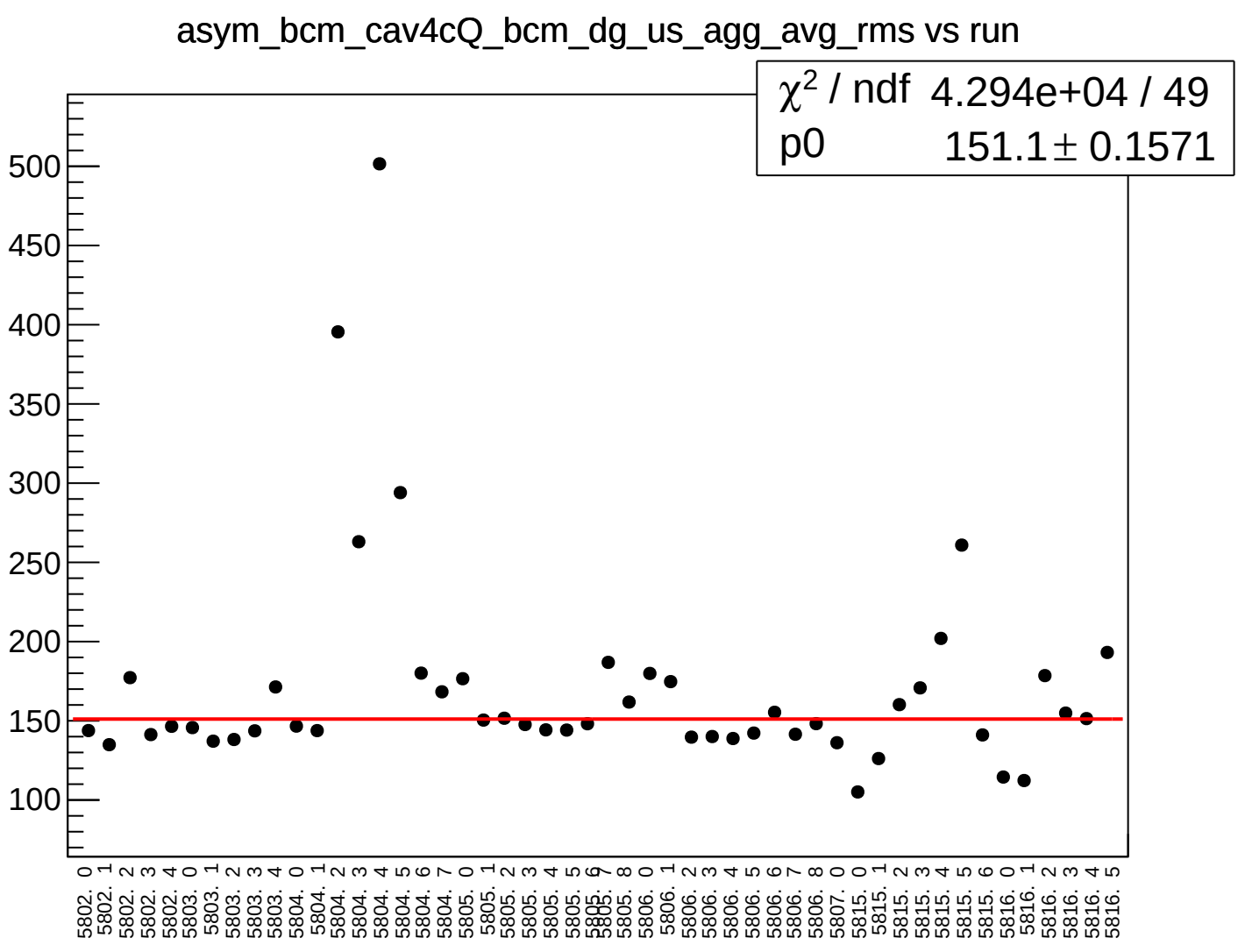
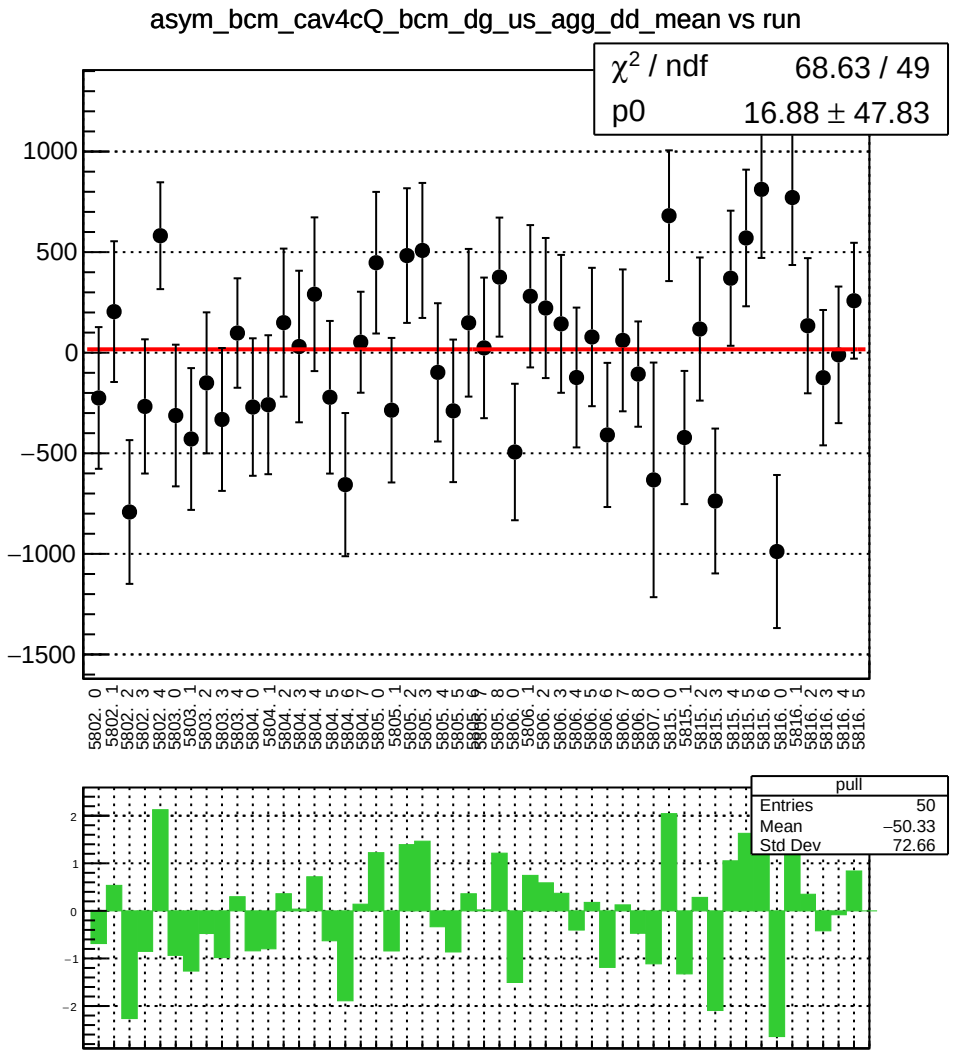
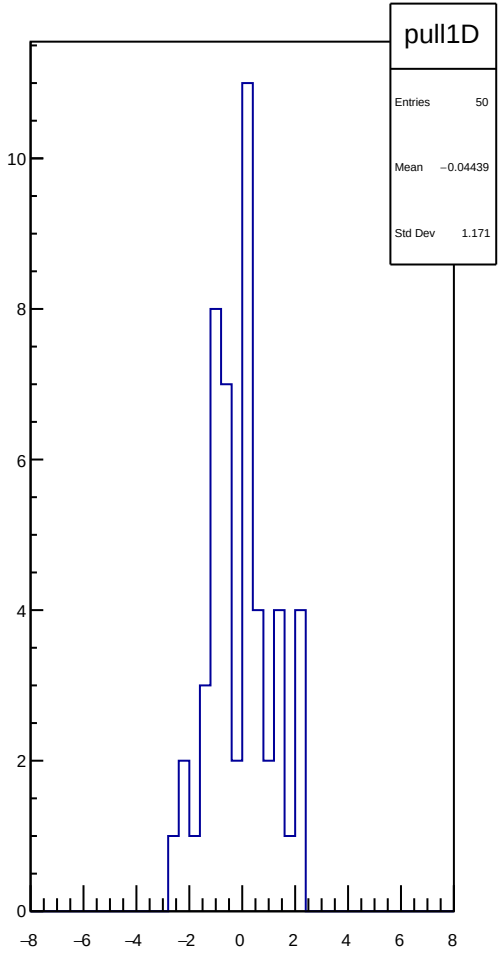
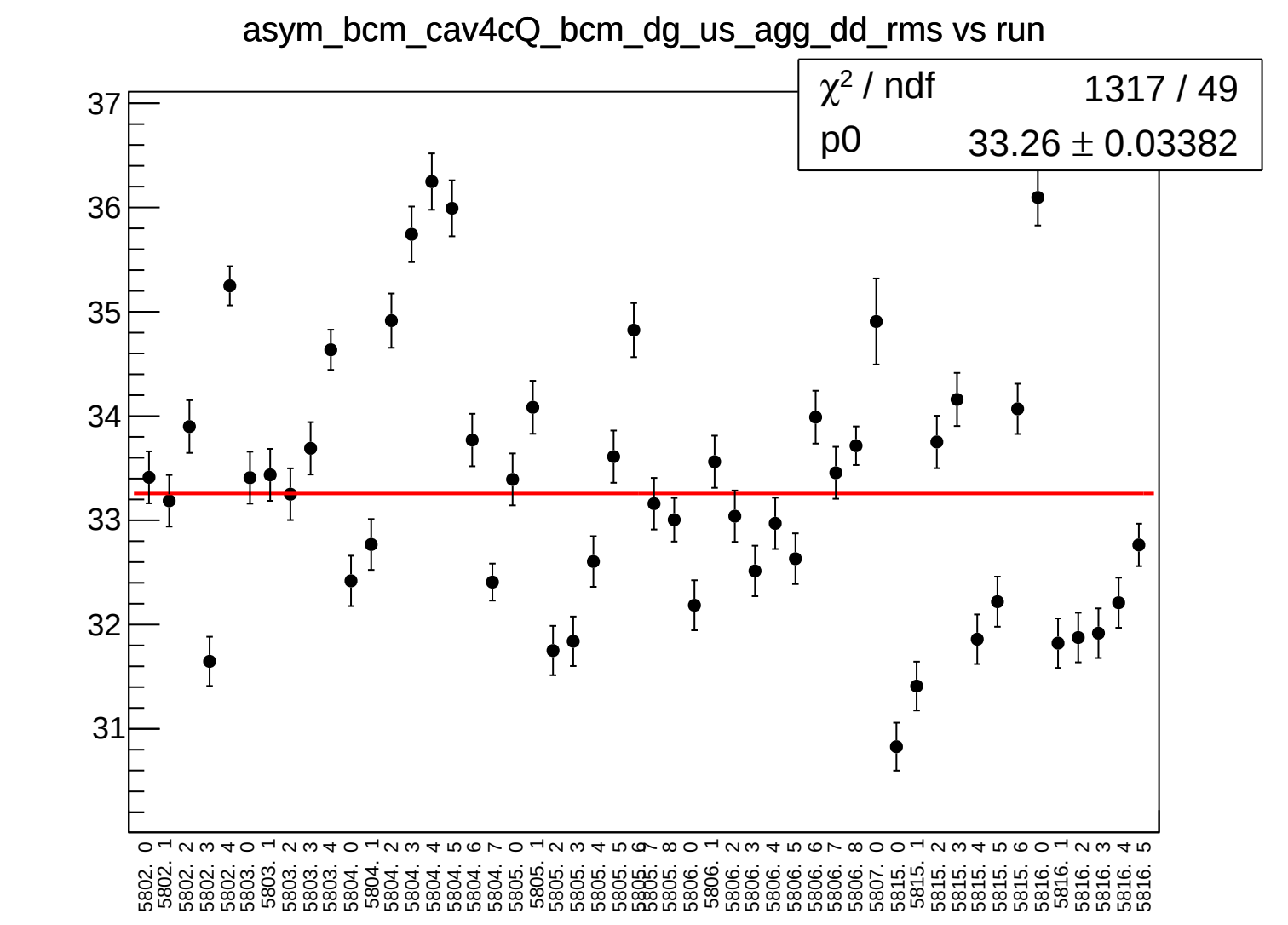
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

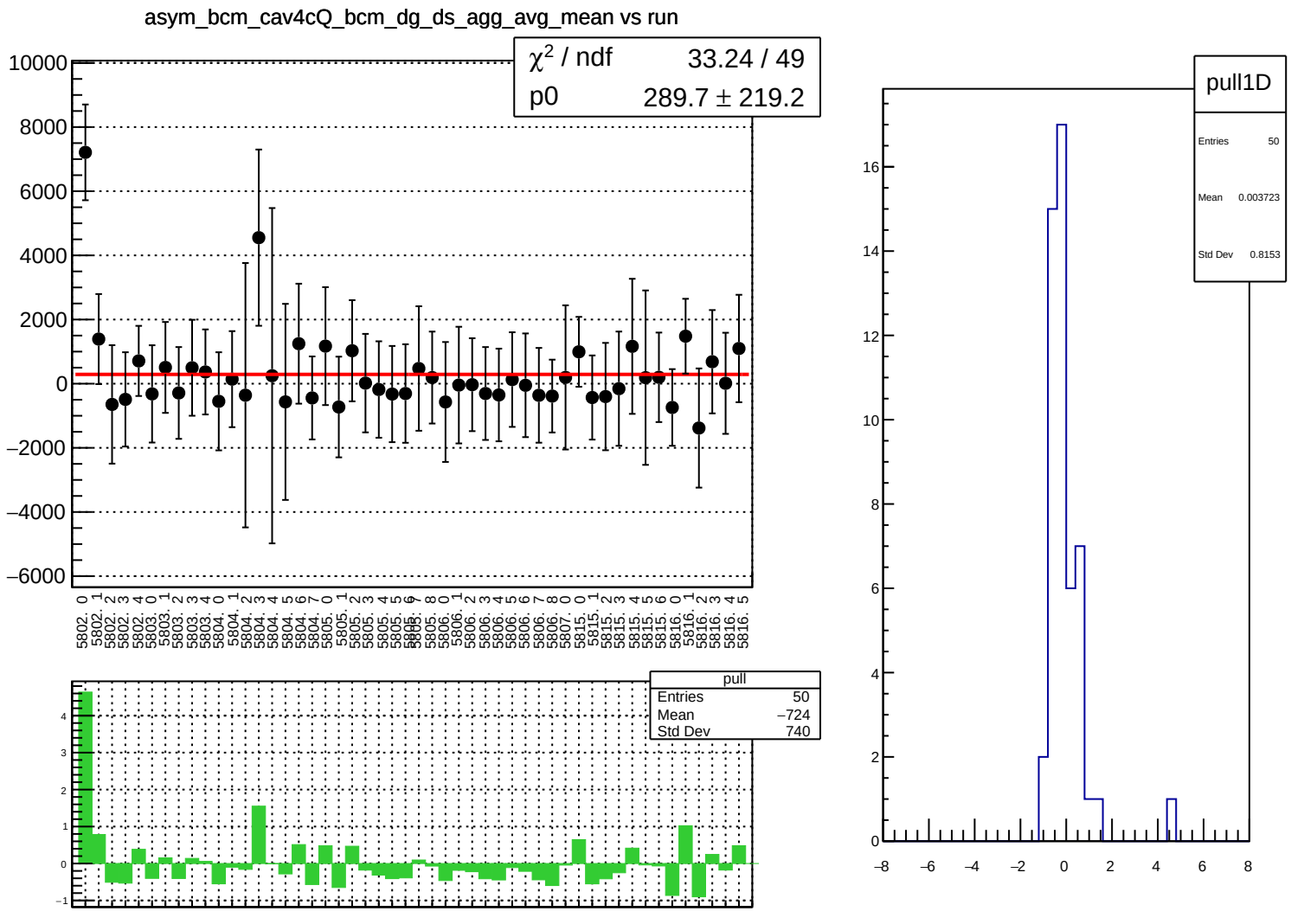

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 32.7 / 49
p0 308.5 ± 222.2
pull
Entries 50
Mean −434.3
Std Dev 449.9
pull1D
Entries 50
Mean 0.006442
Std Dev 0.8086

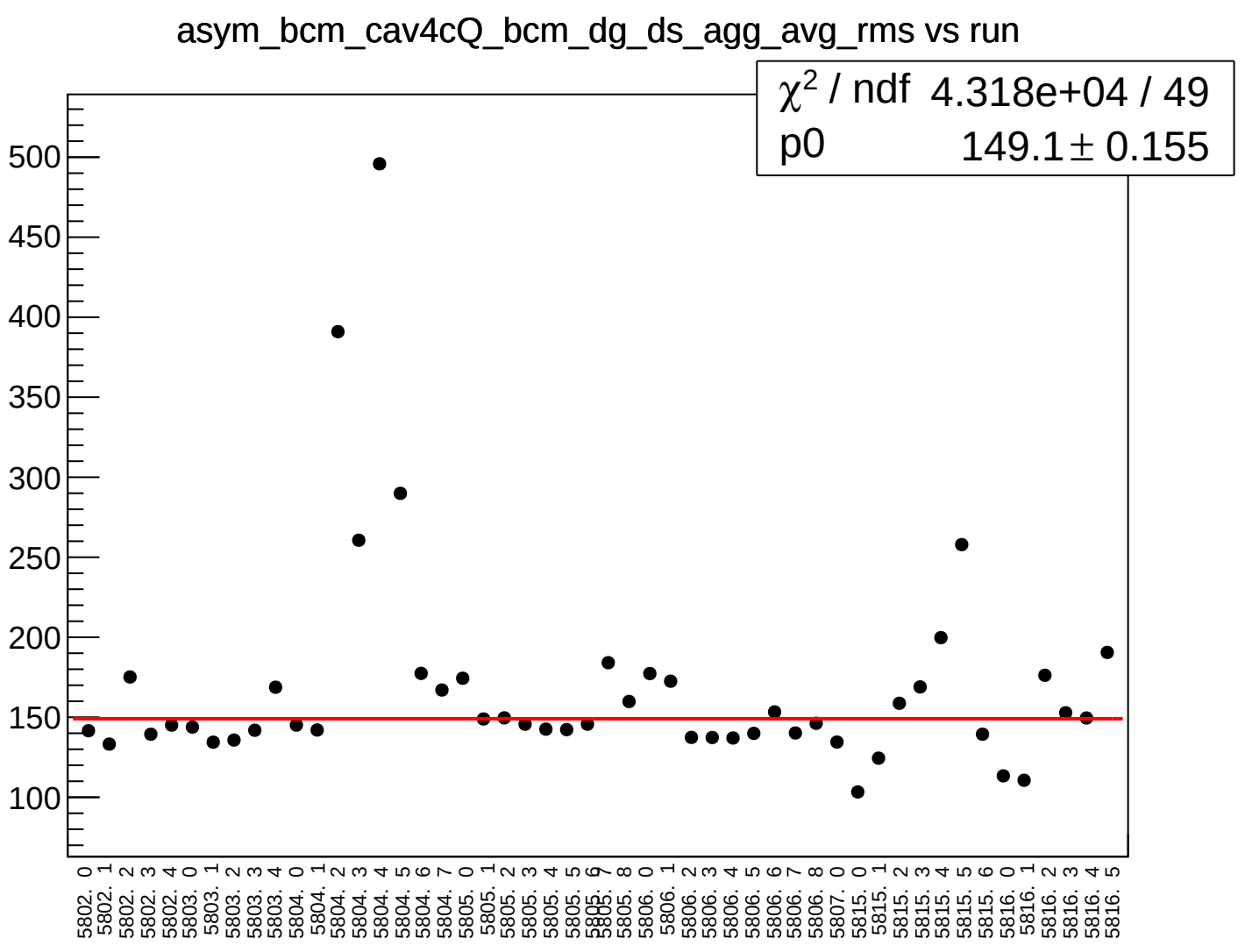

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4.294e+04 / 49
p0 151.1 ± 0.1571
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.63 / 49
p0 16.88 ± 47.83
1000
500
0
−500
−1000
−1500
pull
Entries 50
Mean −50.33
Std Dev 72.66
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.04439
Std Dev 1.171
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 1317 / 49
p0 33.26 ± 0.03382
37
36
35
34
33
32
31
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.24 / 49
p0 289.7 ± 219.2
pull
Entries 50
Mean −724
Std Dev 740
pull1D
Entries 50
Mean 0.003723
Std Dev 0.8153


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.318e+04 / 49
p0 149.1 ± 0.155
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
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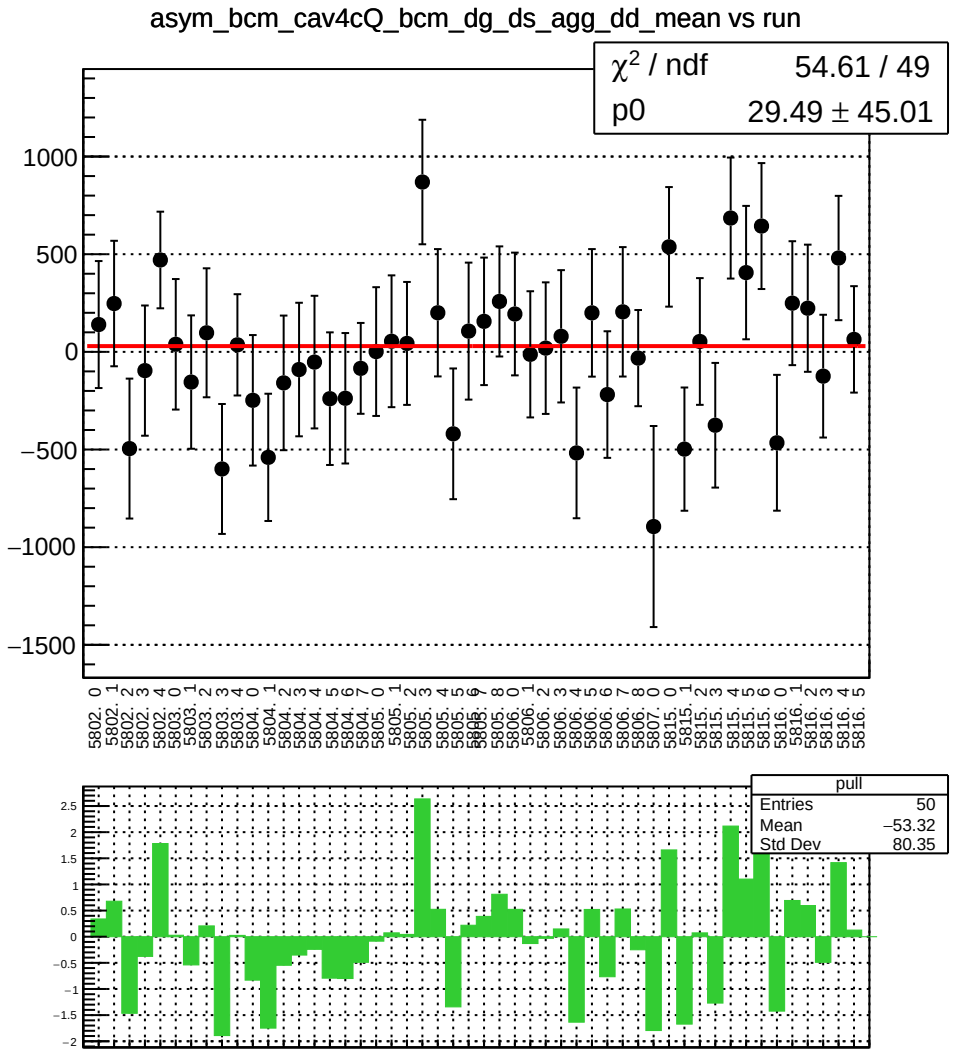
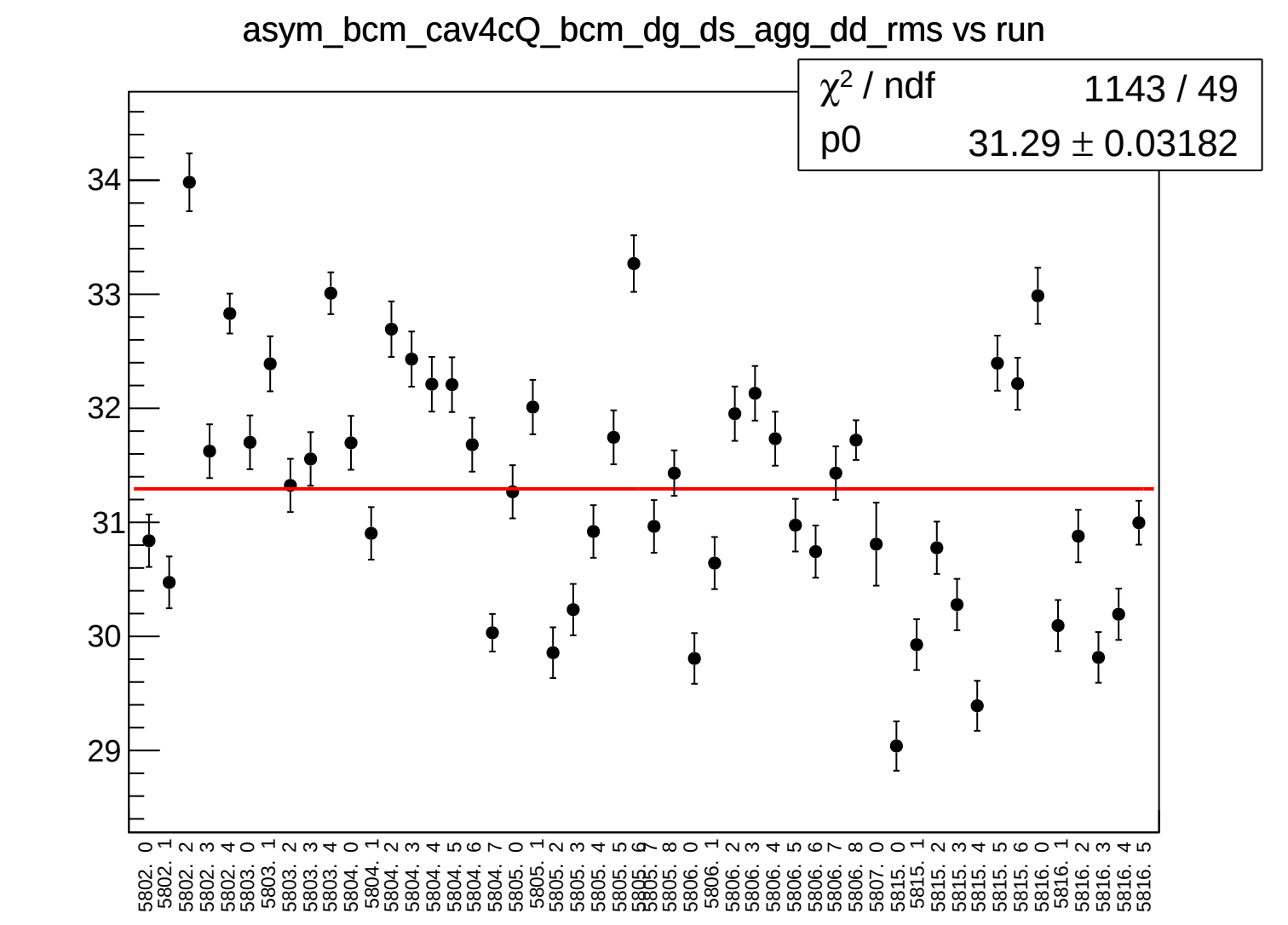
5816. 5


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.61 / 49
p0 29.49 ± 45.01
1000
500
0
−500
−1000
−1500
pull
Entries 50
Mean −53.32
Std Dev 80.35
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.03586
Std Dev 1.044
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 1143 / 49
p0 31.29 ± 0.03182
34
33
32
31
30
29
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
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5806. 5
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5806. 7
5806. 8
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5815. 0
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5815. 2
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5816. 2
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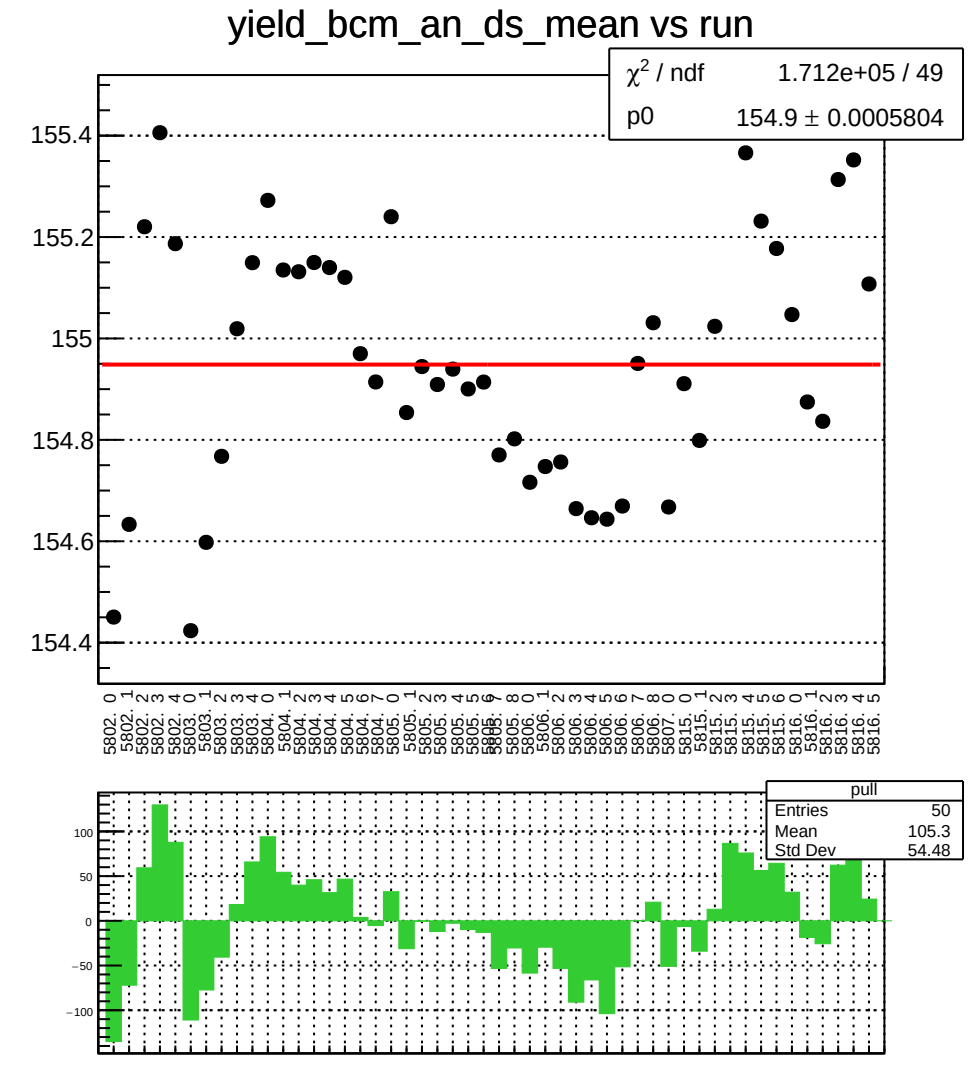
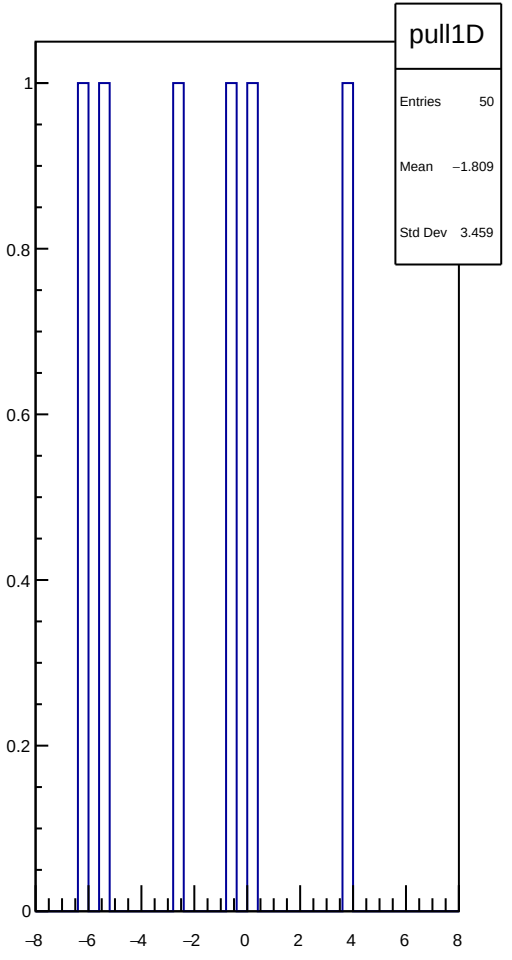
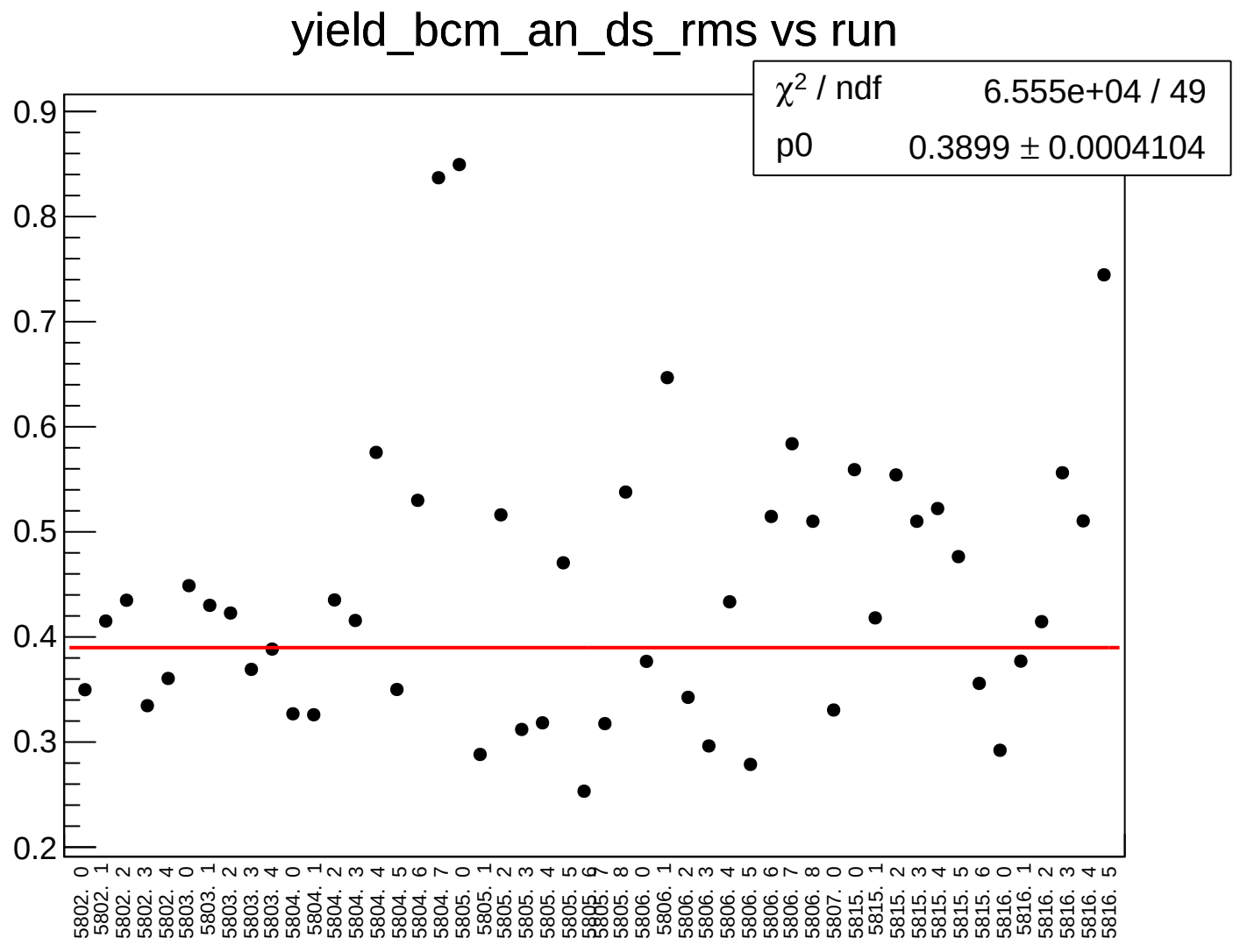
5816. 4
5816. 5


yield_bcm_an_ds_mean vs run
χ² / ndf 1.712e+05 / 49
p0 154.9 ± 0.0005804
155.4
155.2
155
154.8
154.6
154.4
pull
Entries 50
Mean 105.3
Std Dev 54.48
100
50
0
−50
−100


pull1D
Entries 50
Mean −1.809
Std Dev 3.459
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 6.555e+04 / 49
p0 0.3899 ± 0.0004104
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
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5805. 4
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5805. 8
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5815. 2
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5815. 4
5815. 5
5815. 6
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5816. 1
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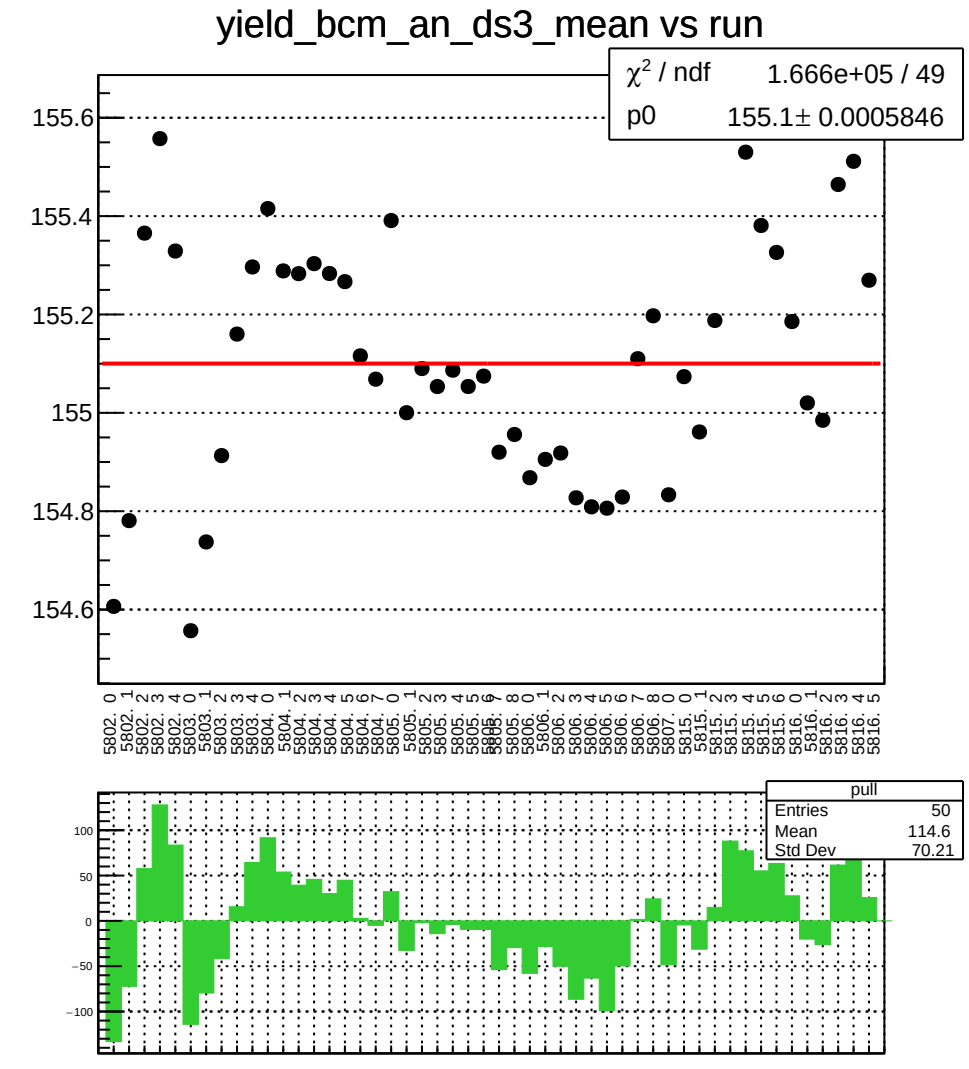
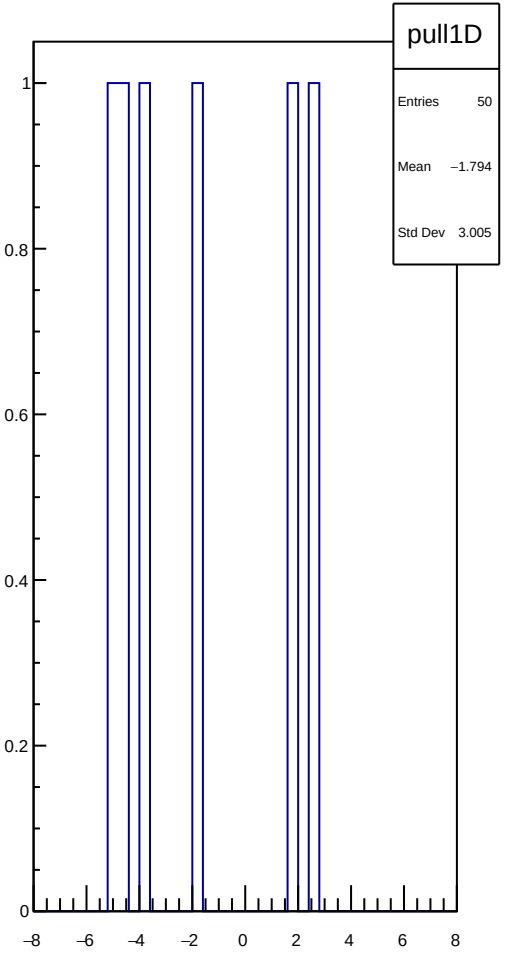
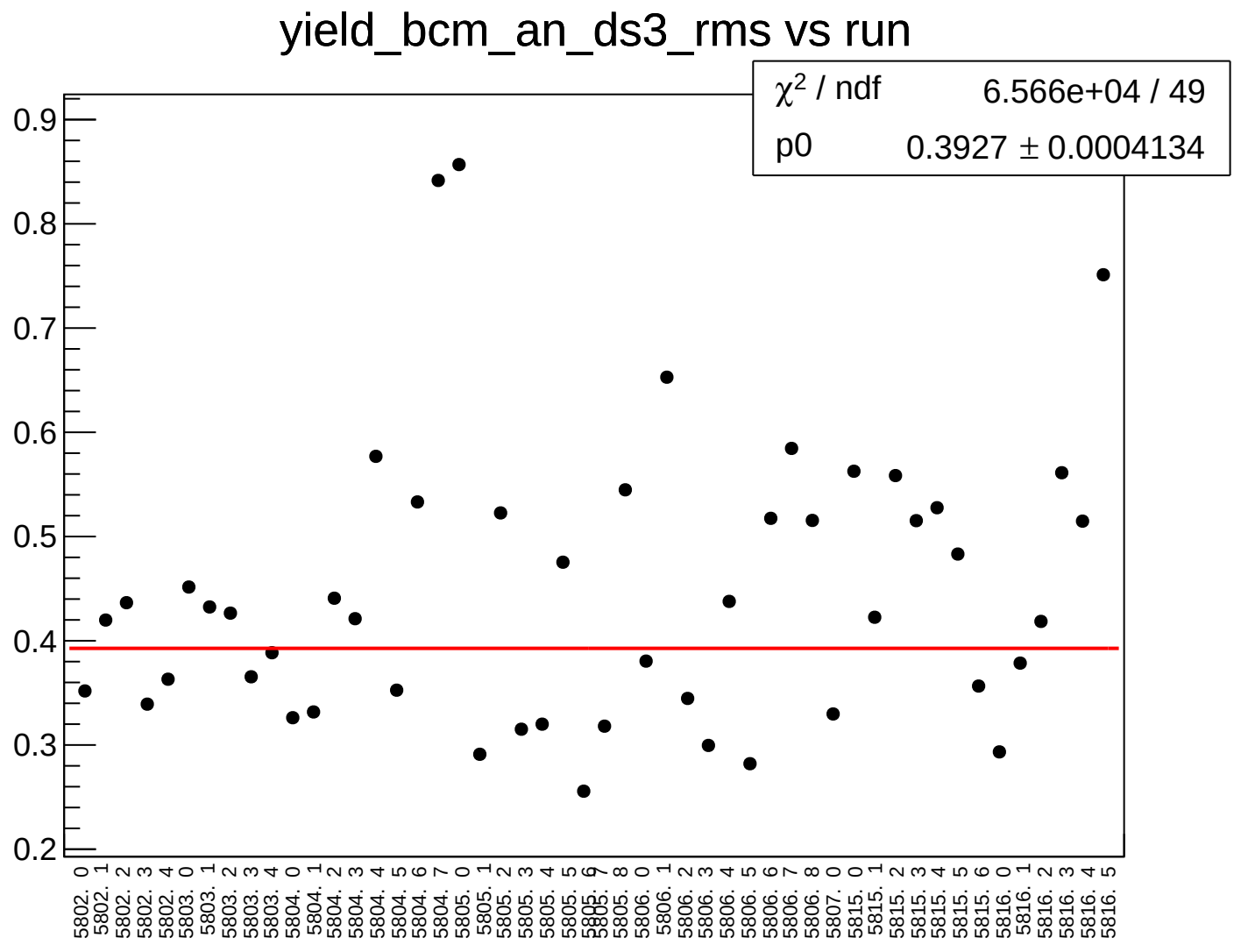
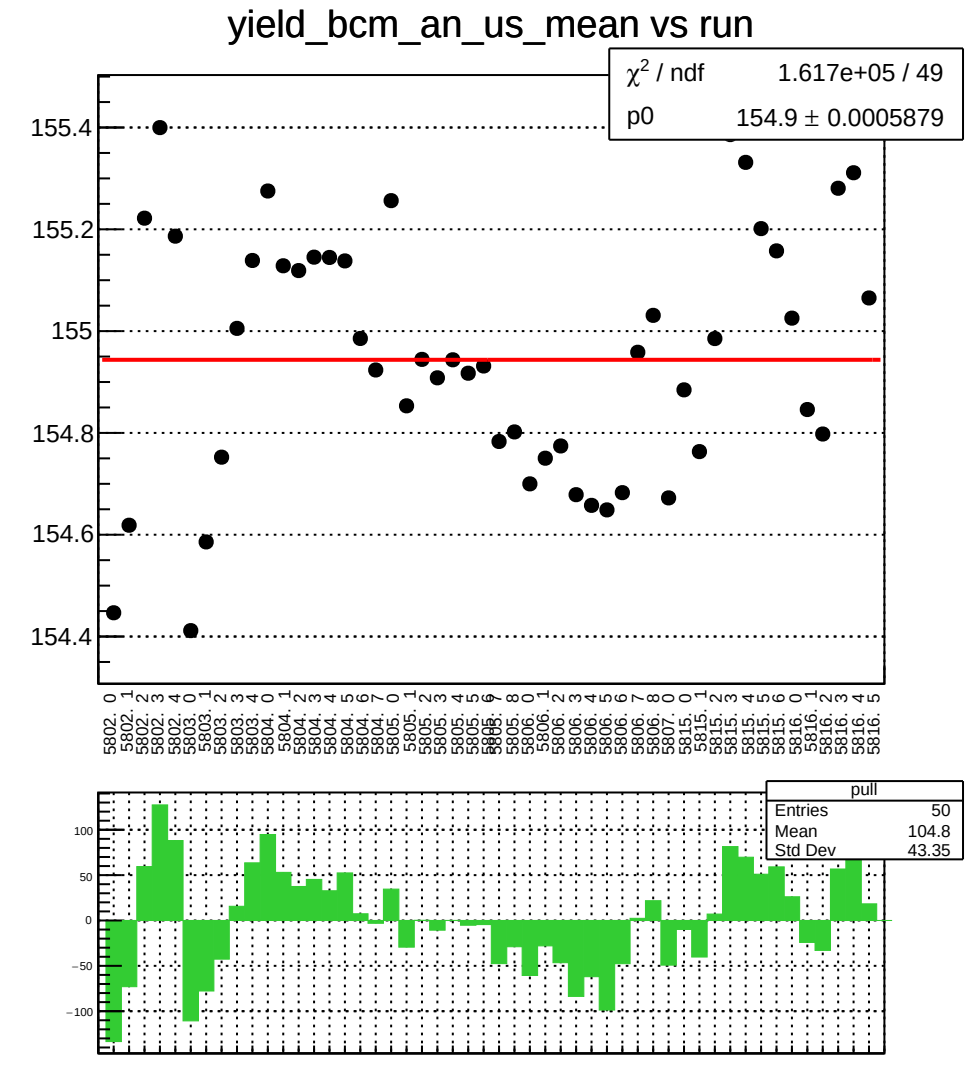
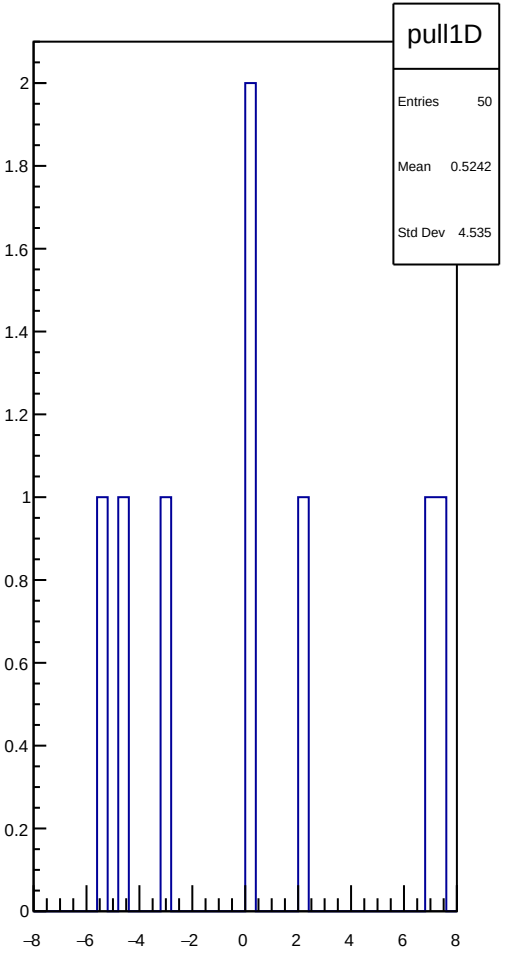
5816. 3
5816. 4
5816. 5

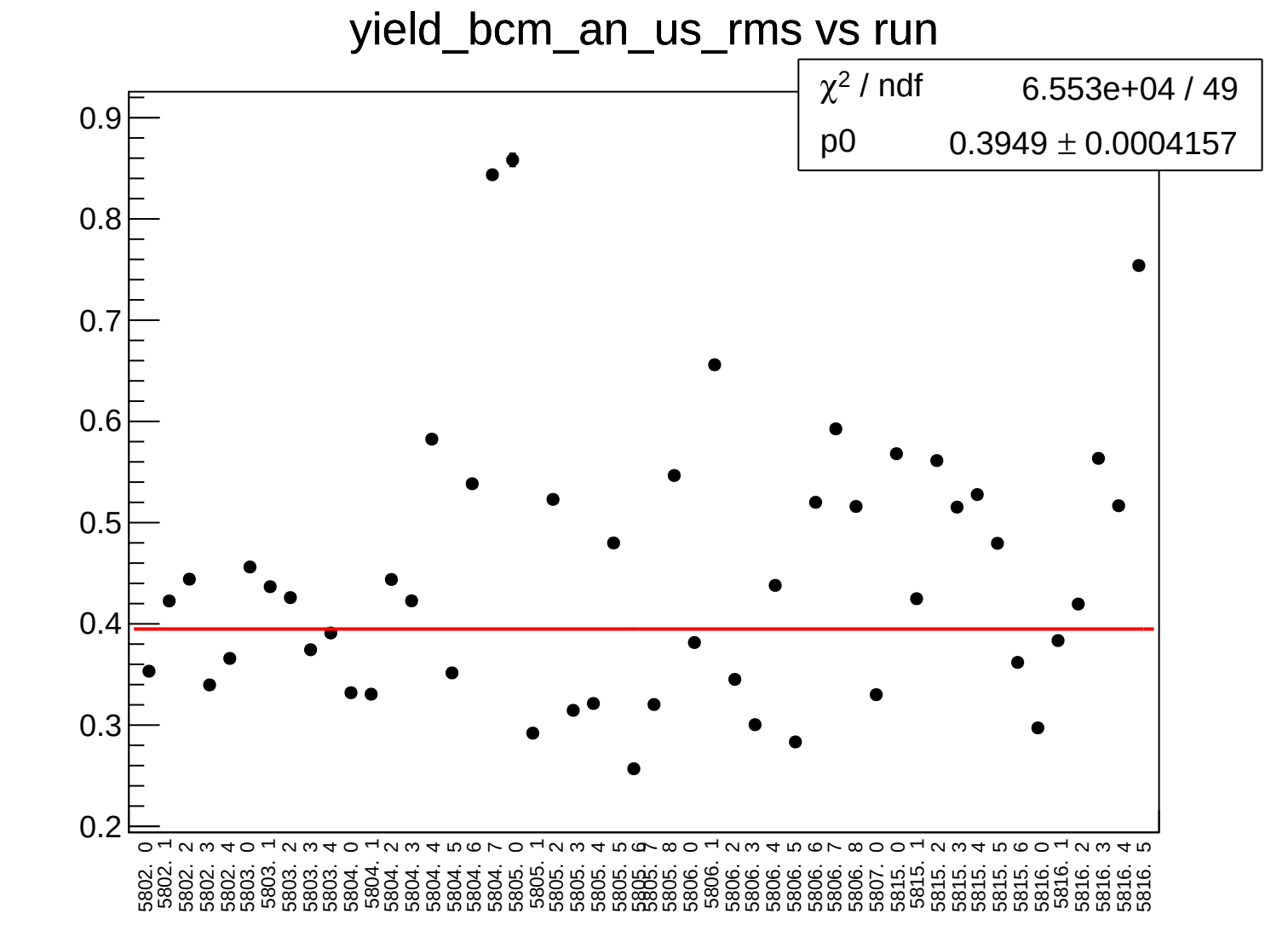

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.666e+05 / 49
p0 155.1± 0.0005846
155.6
155.4
155.2
155
154.8
154.6
pull
Entries 50
Mean 114.6
Std Dev 70.21
100
50
0
−50
−100

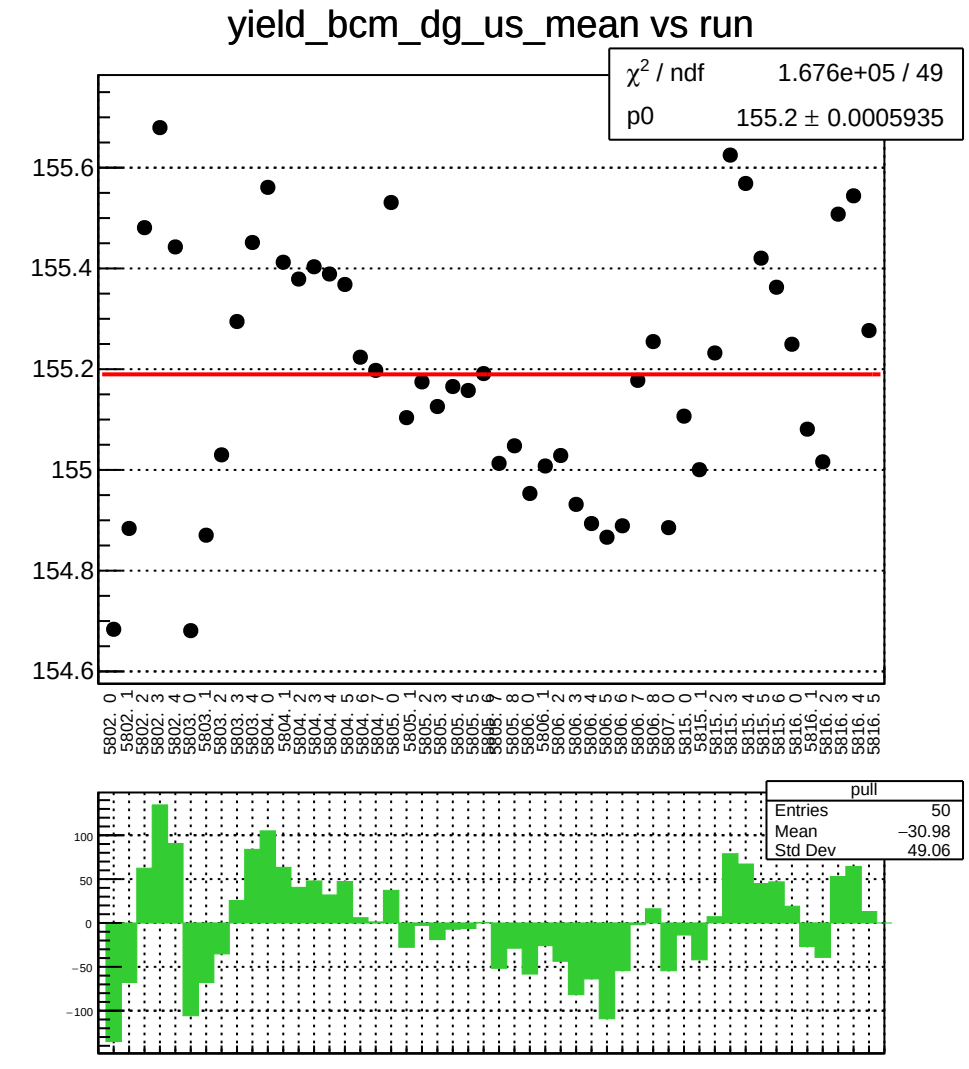

pull1D
Entries 50
Mean −1.794
Std Dev 3.005
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

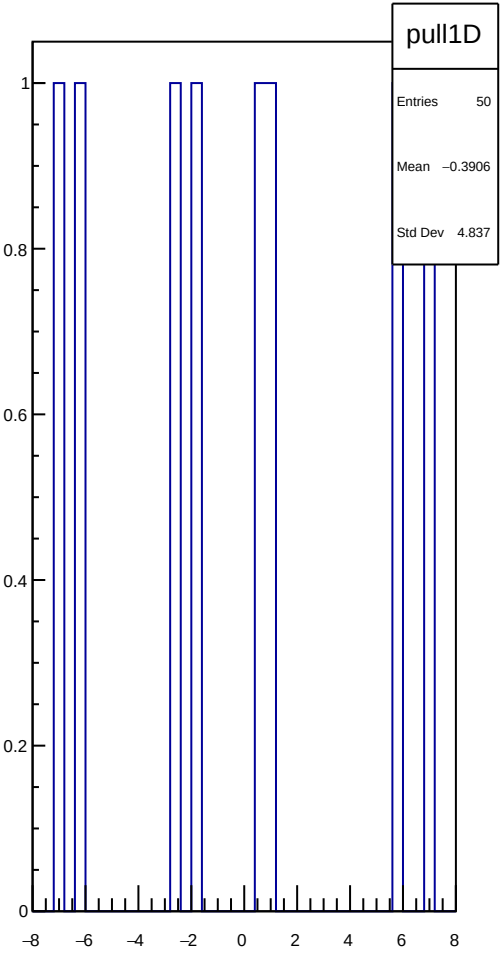

yield_bcm_an_ds3_rms vs run
χ² / ndf 6.566e+04 / 49
p0 0.3927 ± 0.0004134
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

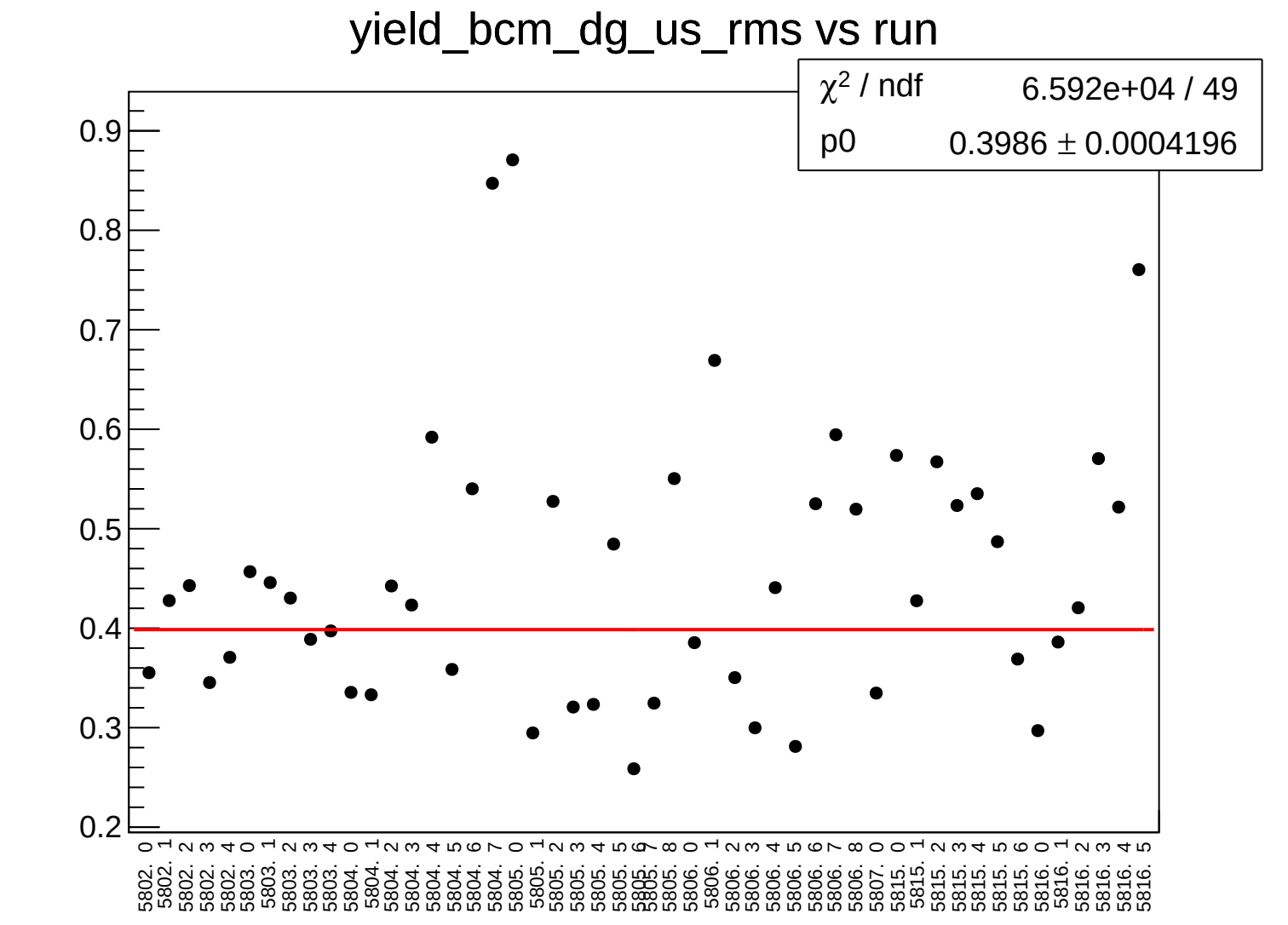

yield_bcm_an_us_mean vs run
χ² / ndf 1.617e+05 / 49
p0 154.9 ± 0.0005879
155.4
155.2
155
154.8
154.6
154.4
pull
Entries 50
Mean 104.8
Std Dev 43.35
100
50
0
−50
−100

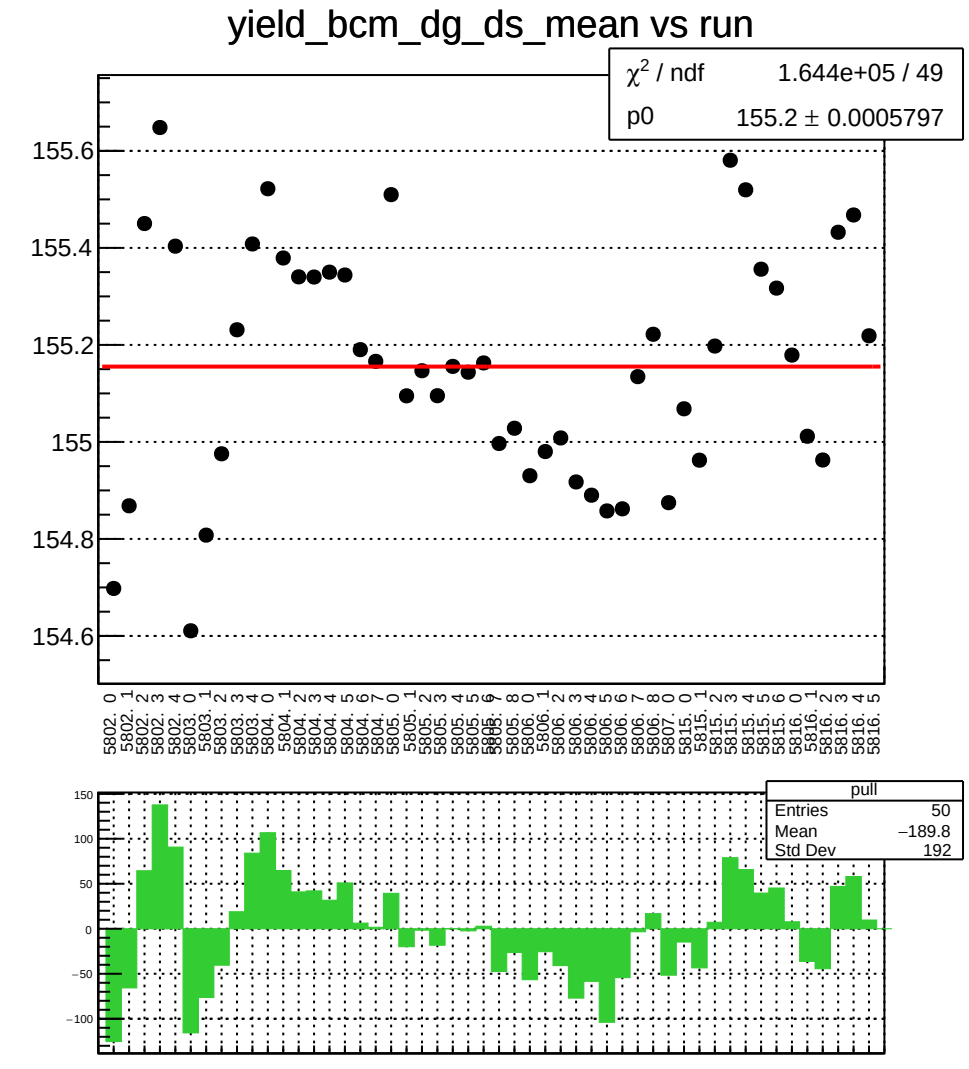

pull1D
Entries 50
Mean 0.5242
Std Dev 4.535
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

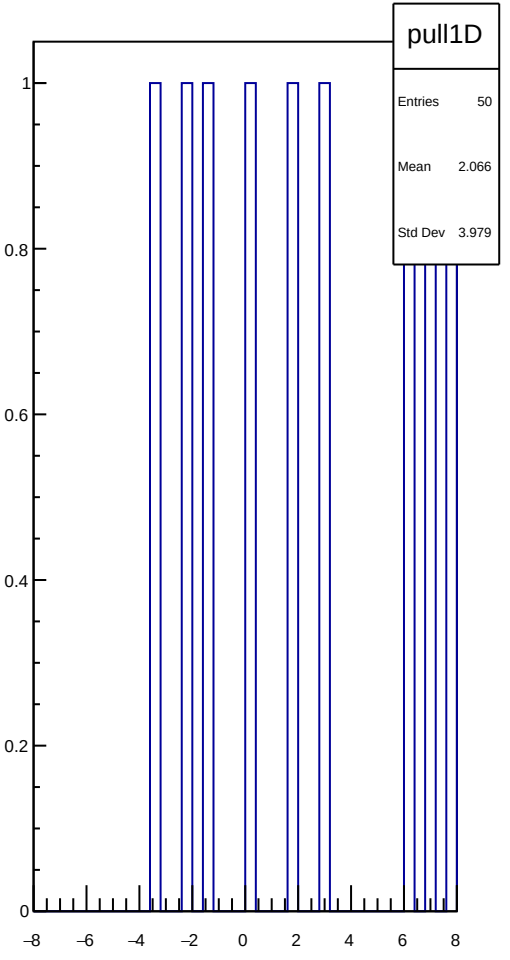

yield_bcm_an_us_rms vs run
χ² / ndf 6.553e+04 / 49
p0 0.3949 ± 0.0004157
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

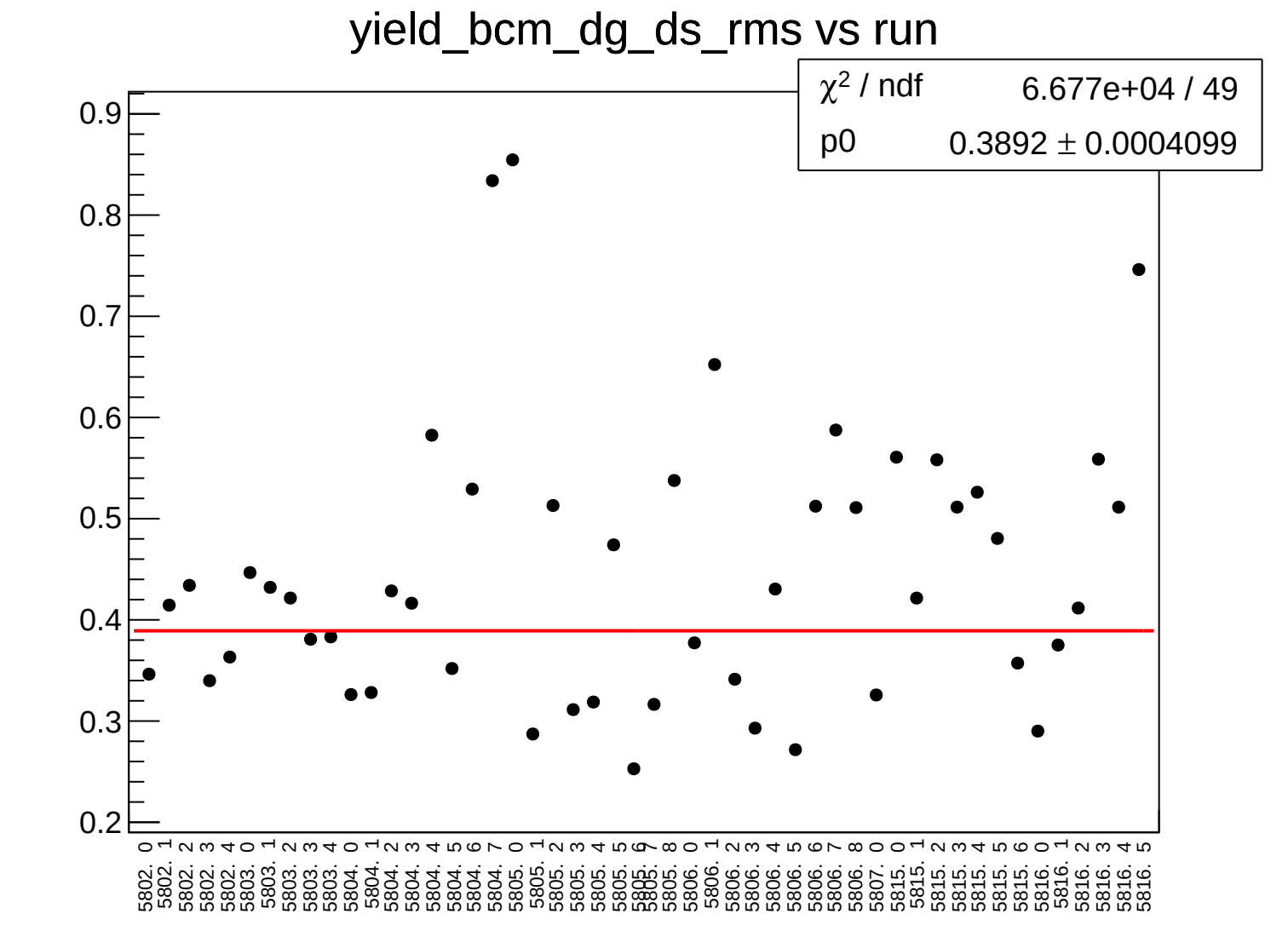

yield_bcm_dg_us_mean vs run
χ² / ndf 1.676e+05 / 49
p0 155.2 ± 0.0005935
155.6
155.4
155.2
155
154.8
154.6
pull
Entries 50
Mean −30.98
Std Dev 49.06
100
50
0
−50
−100

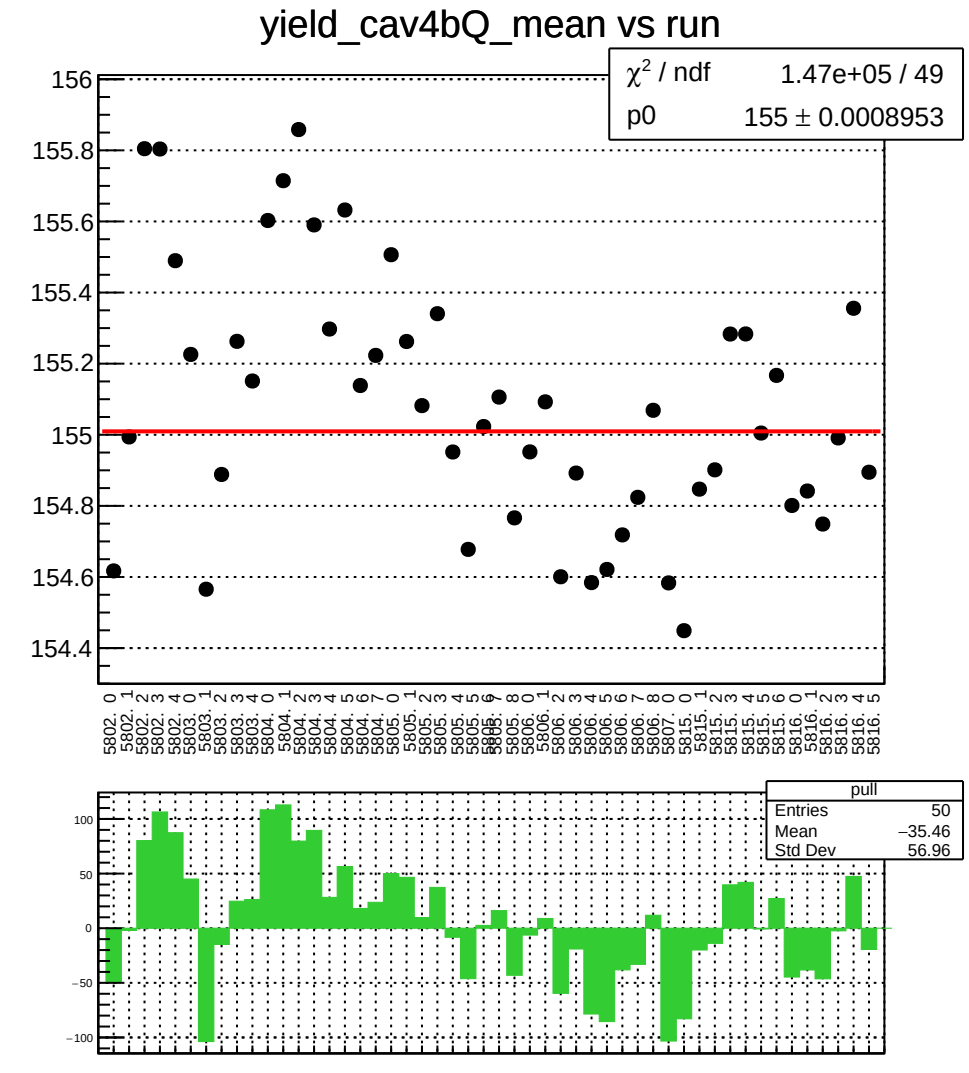

pull1D
Entries 50
Mean −0.3906
Std Dev 4.837
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

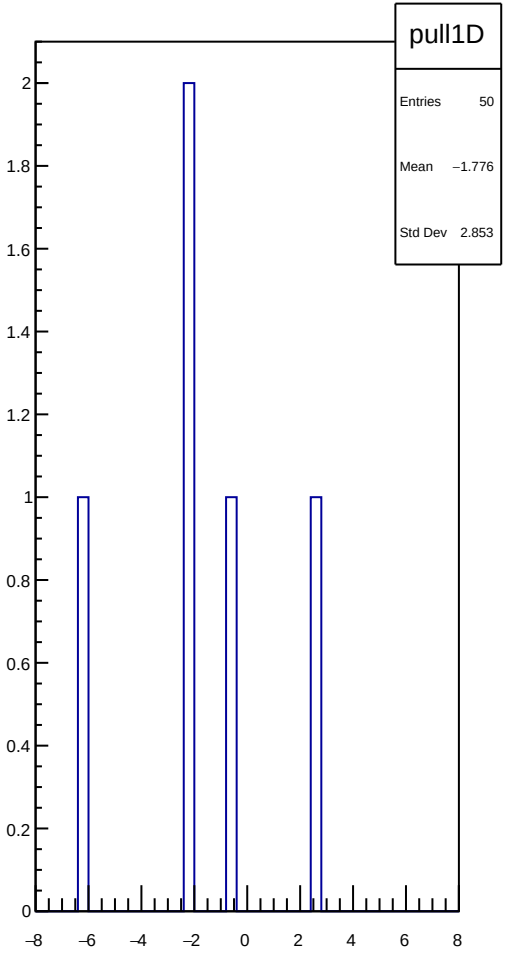

yield_bcm_dg_us_rms vs run
χ² / ndf 6.592e+04 / 49
p0 0.3986 ± 0.0004196
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

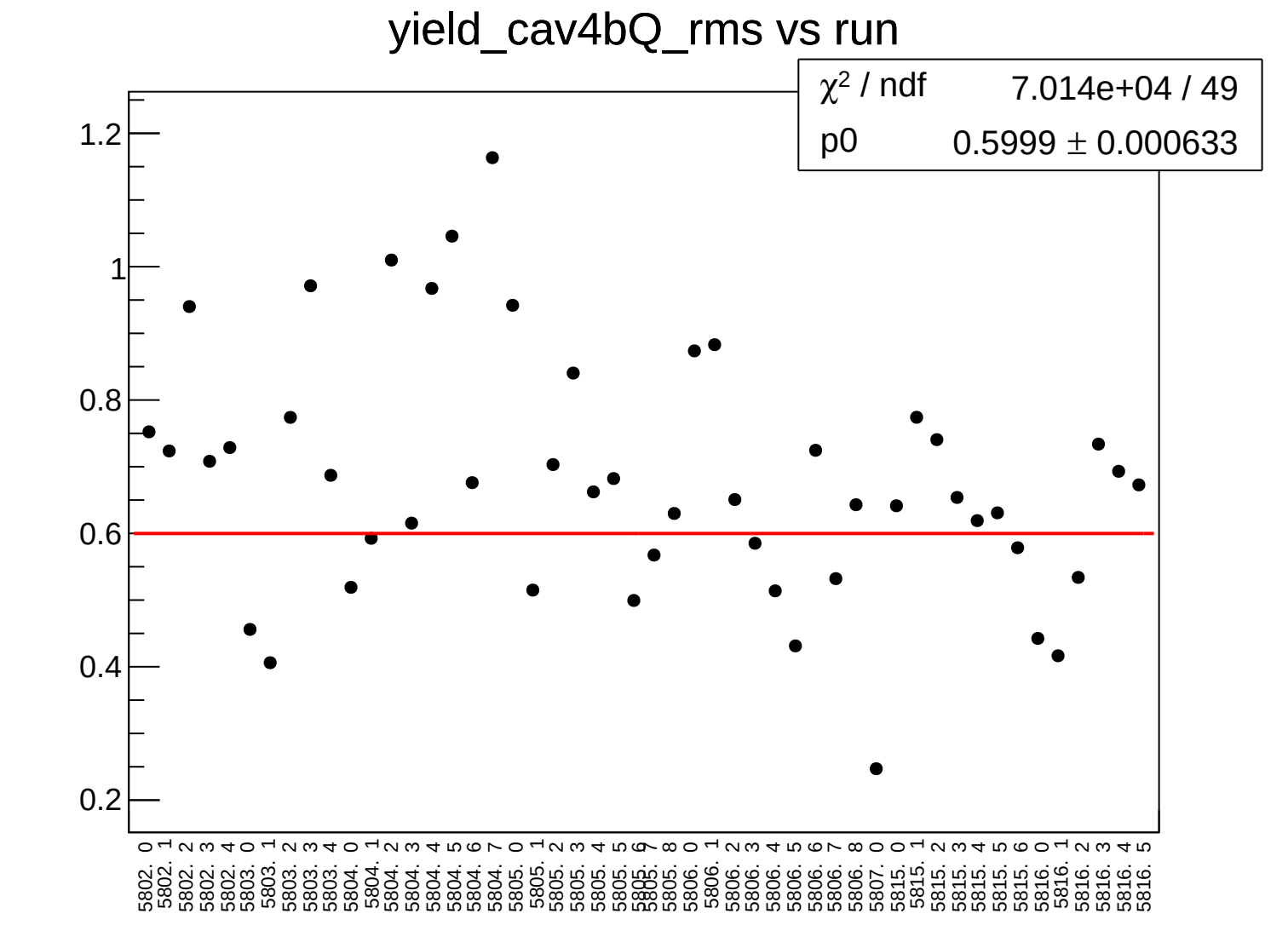

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.644e+05 / 49
p0 155.2 ± 0.0005797
155.6
155.4
155.2
155
154.8
154.6
pull
Entries 50
Mean −189.8
Std Dev 192
150
100
50
0
−50
−100

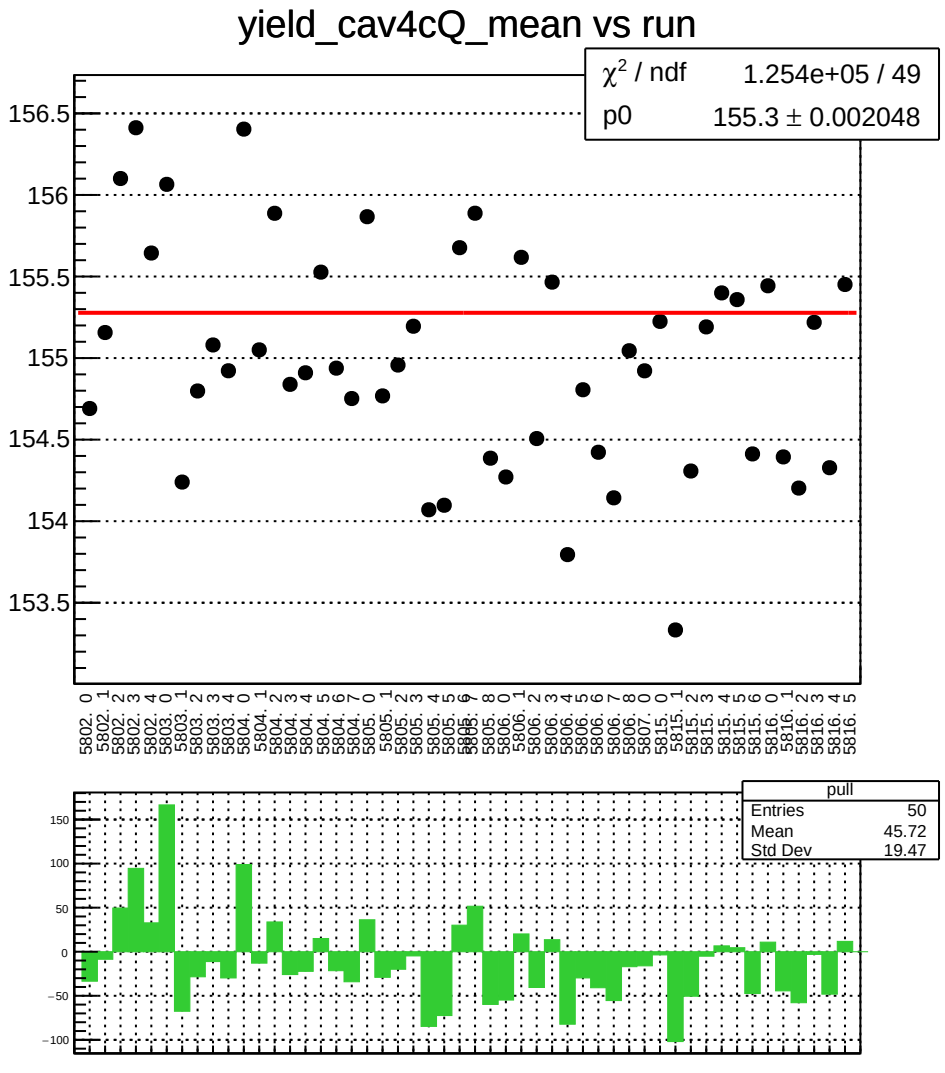

pull1D
Entries 50
Mean 2.066
Std Dev 3.979
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

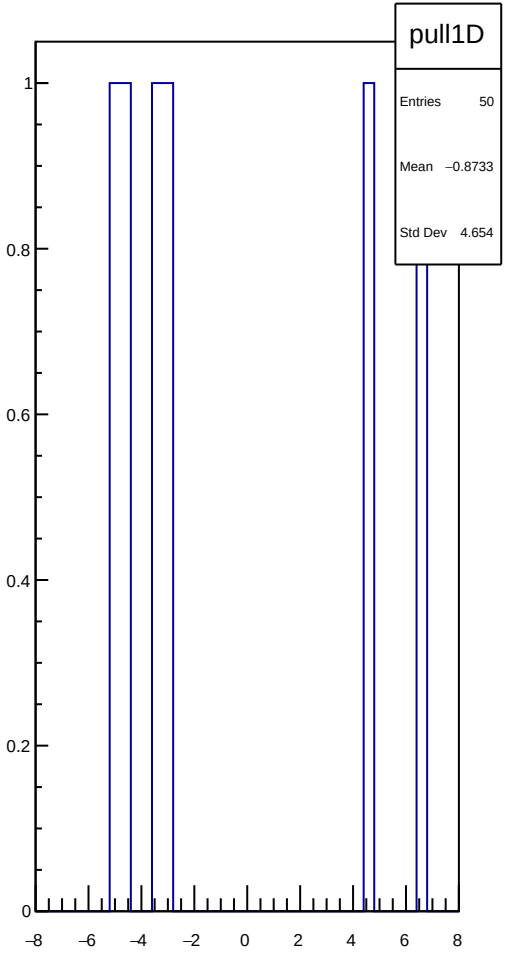

yield_bcm_dg_ds_rms vs run
χ² / ndf 6.677e+04 / 49
p0 0.3892 ± 0.0004099
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

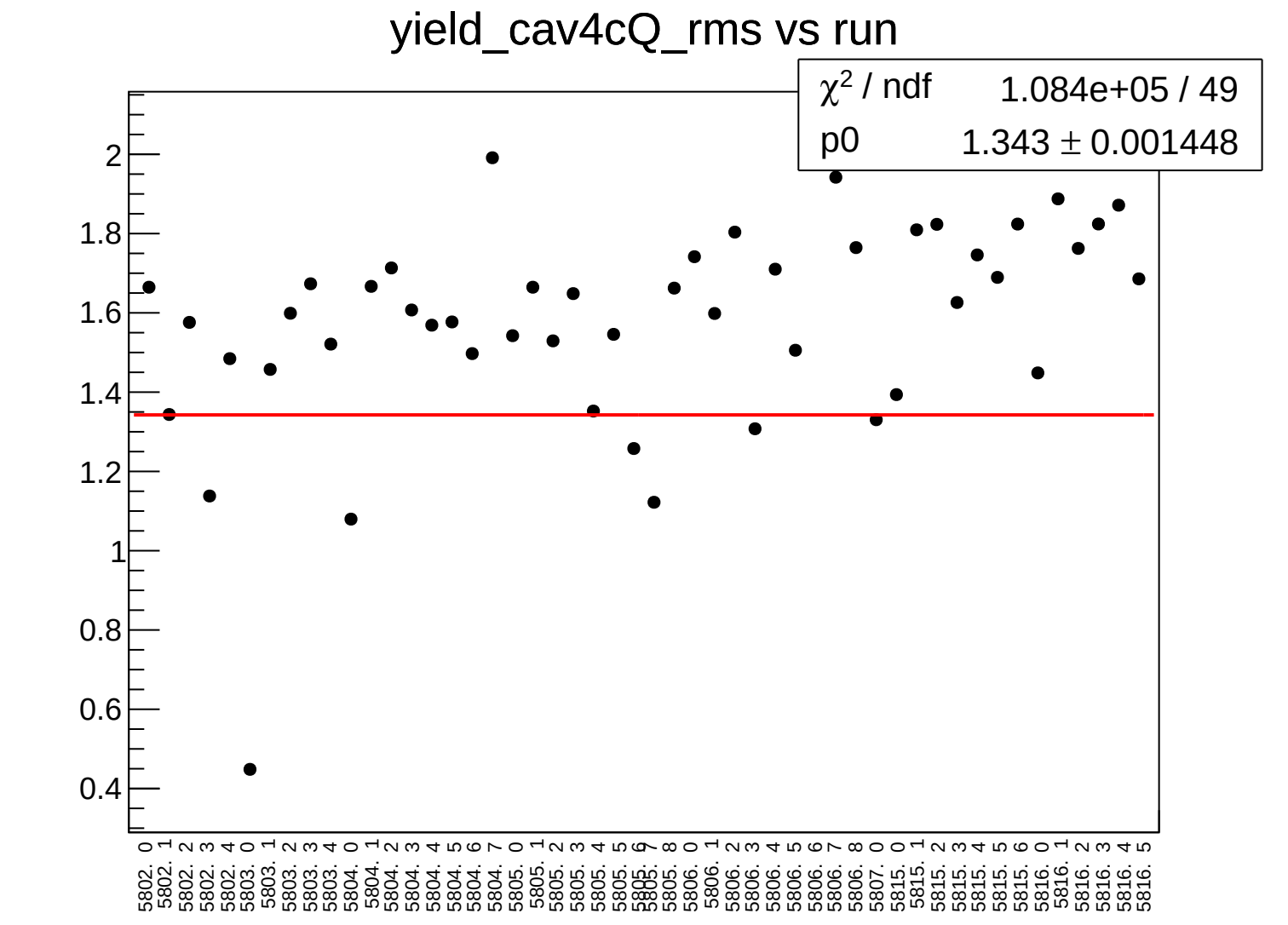

yield_cav4bQ_mean vs run
χ² / ndf 1.47e+05 / 49
p0 155 ± 0.0008953
156
155.8
155.6
155.4
155.2
155
154.8
154.6
154.4
pull
Entries 50
Mean −35.46
Std Dev 56.96
100
50
0
−50
−100

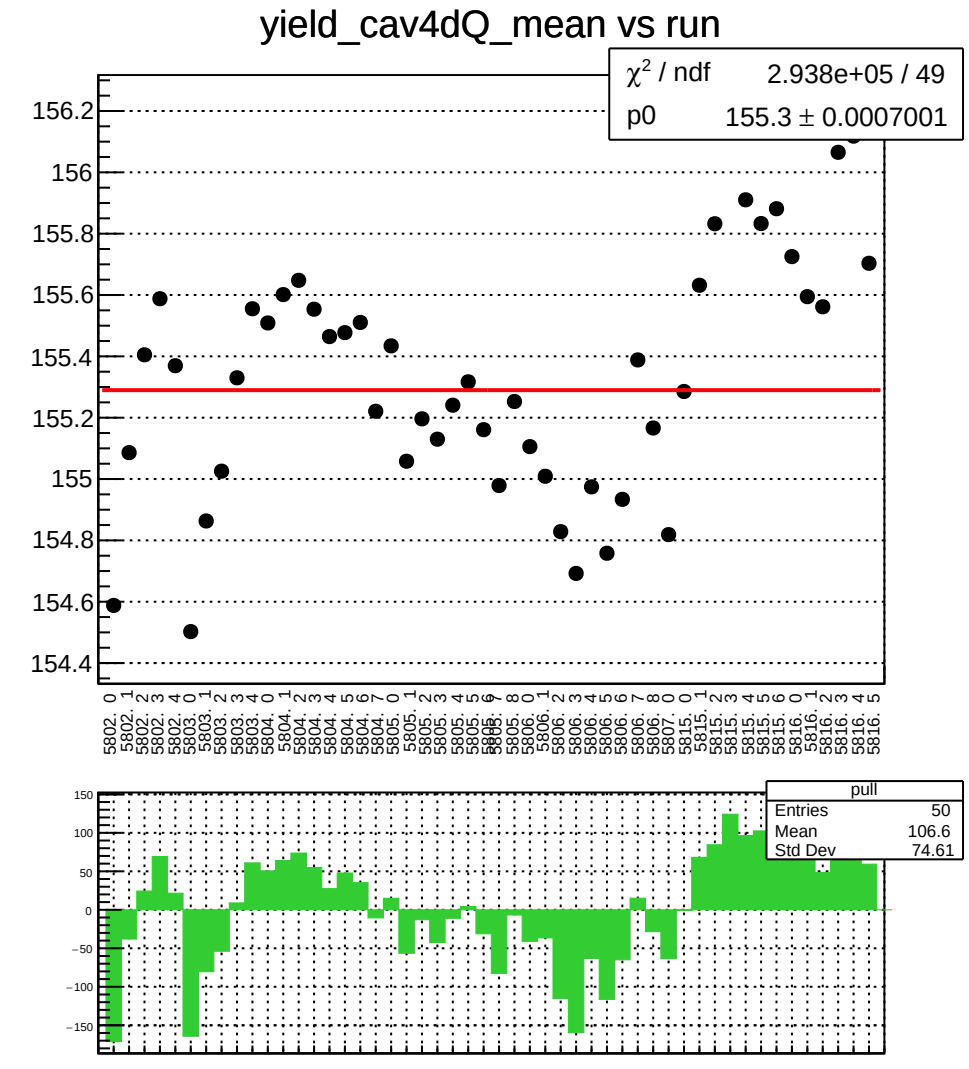

pull1D
Entries 50
Mean −1.776
Std Dev 2.853
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

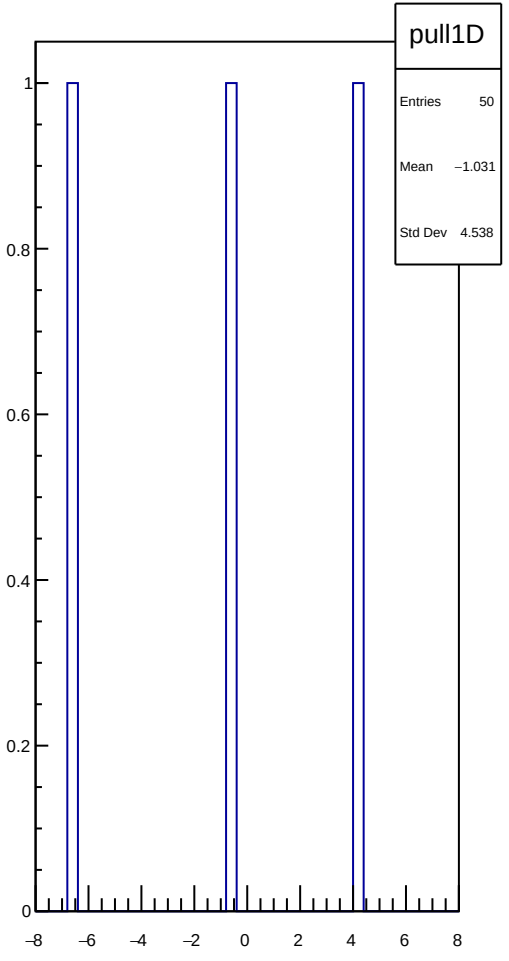

yield_cav4bQ_rms vs run
χ² / ndf 7.014e+04 / 49
p0 0.5999 ± 0.000633
1.2
1
0.8
0.6
0.4
0.2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

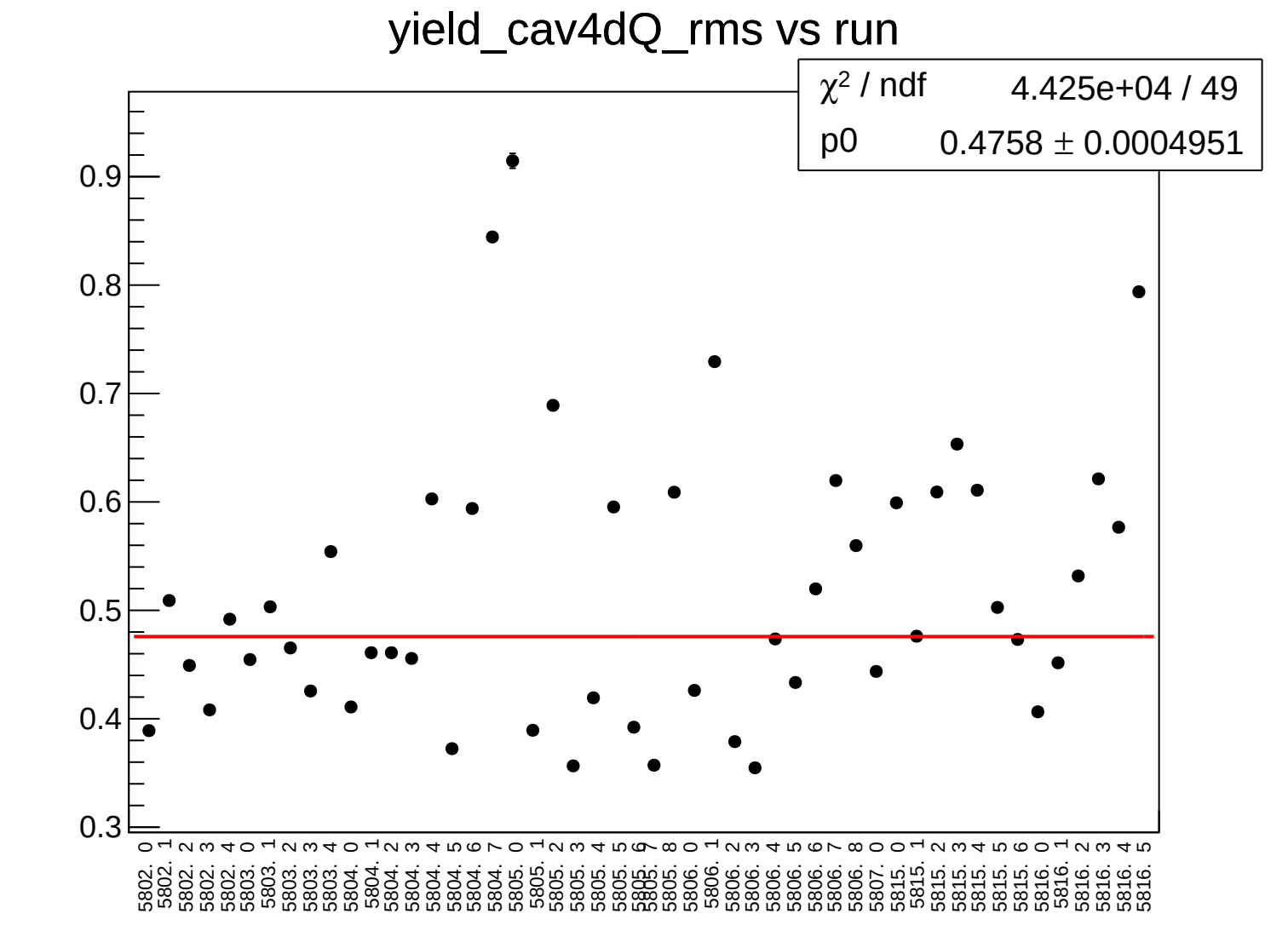

yield_cav4cQ_mean vs run
χ² / ndf 1.254e+05 / 49
p0 155.3 ± 0.002048
156.5
156
155.5
155
154.5
154
153.5
pull
Entries 50
Mean 45.72
Std Dev 19.47
150
100
50
0
−50
−100

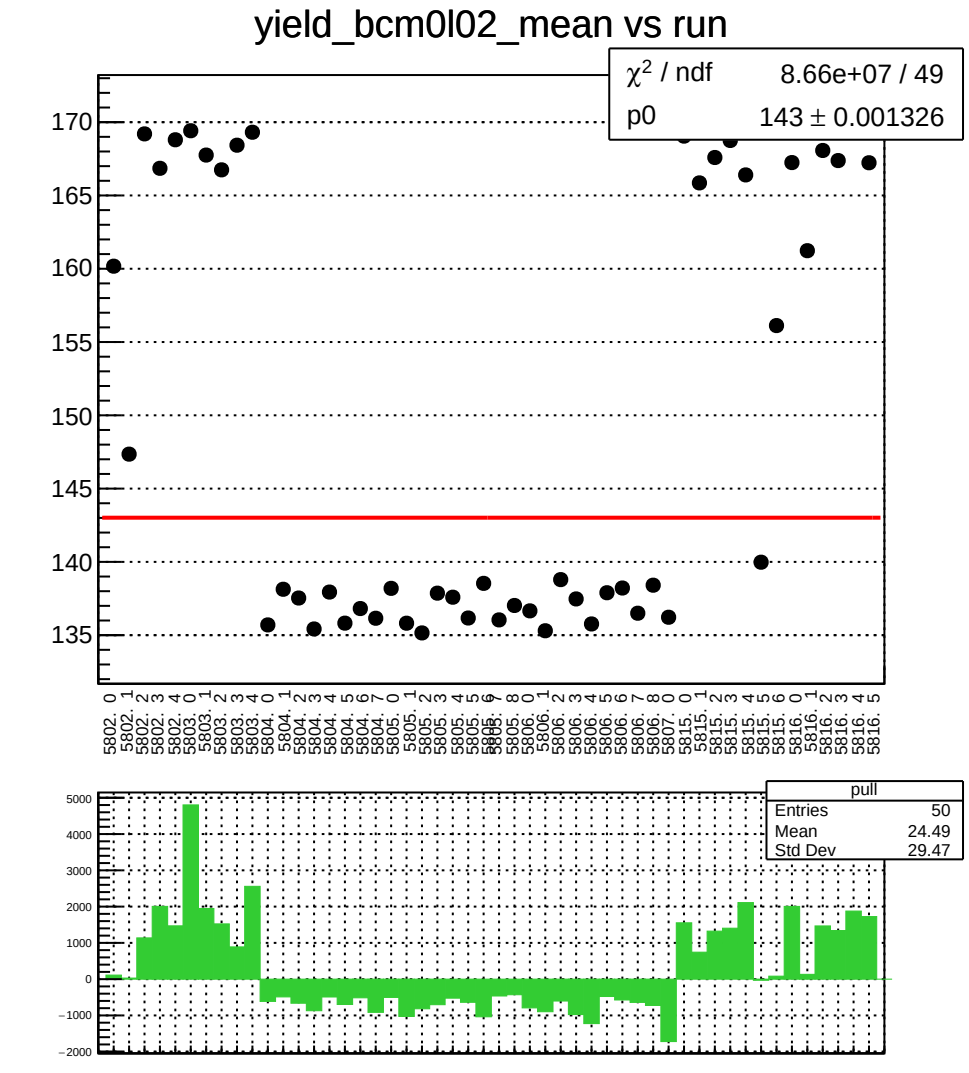

pull1D
Entries 50
Mean −0.8733
Std Dev 4.654
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

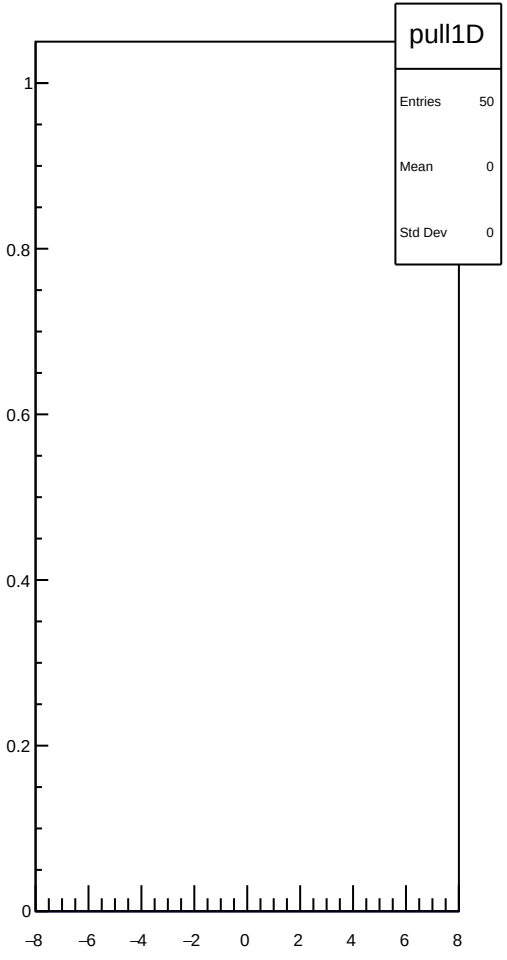

yield_cav4cQ_rms vs run
χ^2 / ndf 1.084e+05 / 49
p0 1.343 ± 0.001448
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

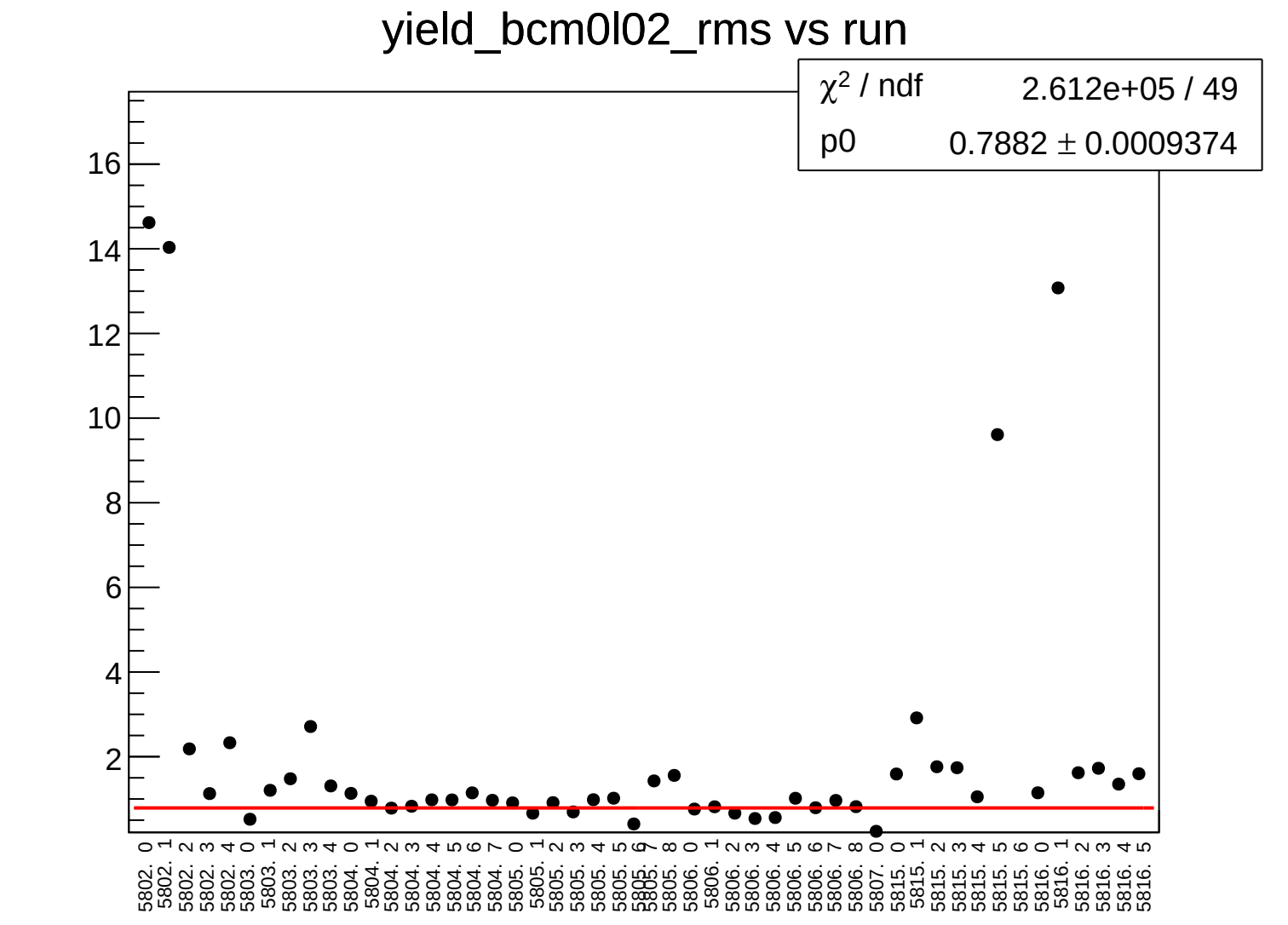

yield_cav4dQ_mean vs run
χ² / ndf 2.938e+05 / 49
p0 155.3 ± 0.0007001
156.2
156
155.8
155.6
155.4
155.2
155
154.8
154.6
154.4
pull
Entries 50
Mean 106.6
Std Dev 74.61
150
100
50
0
−50
−100
−150

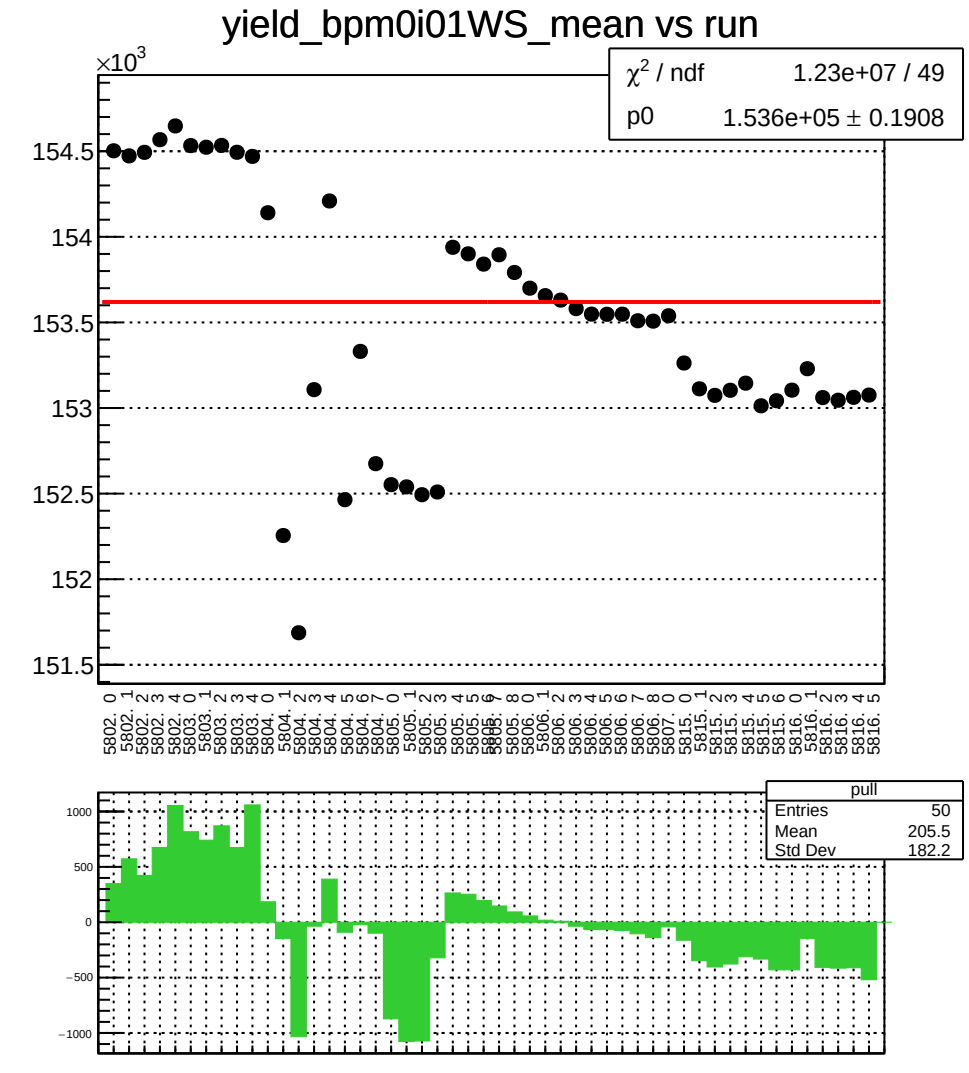

pull1D
Entries 50
Mean −1.031
Std Dev 4.538
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

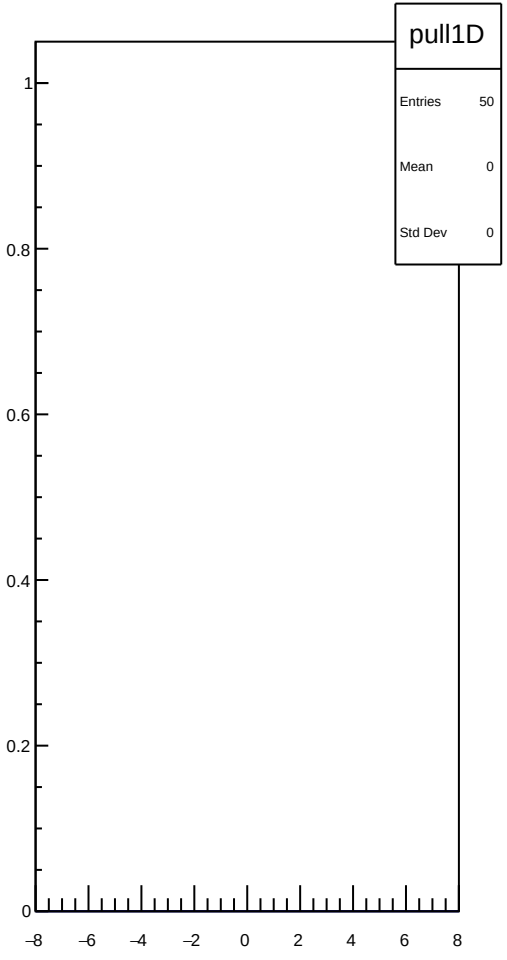

yield_cav4dQ_rms vs run
χ² / ndf 4.425e+04 / 49
p0 0.4758 ± 0.0004951
0.9
0.8
0.7
0.6
0.5
0.4
0.3
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

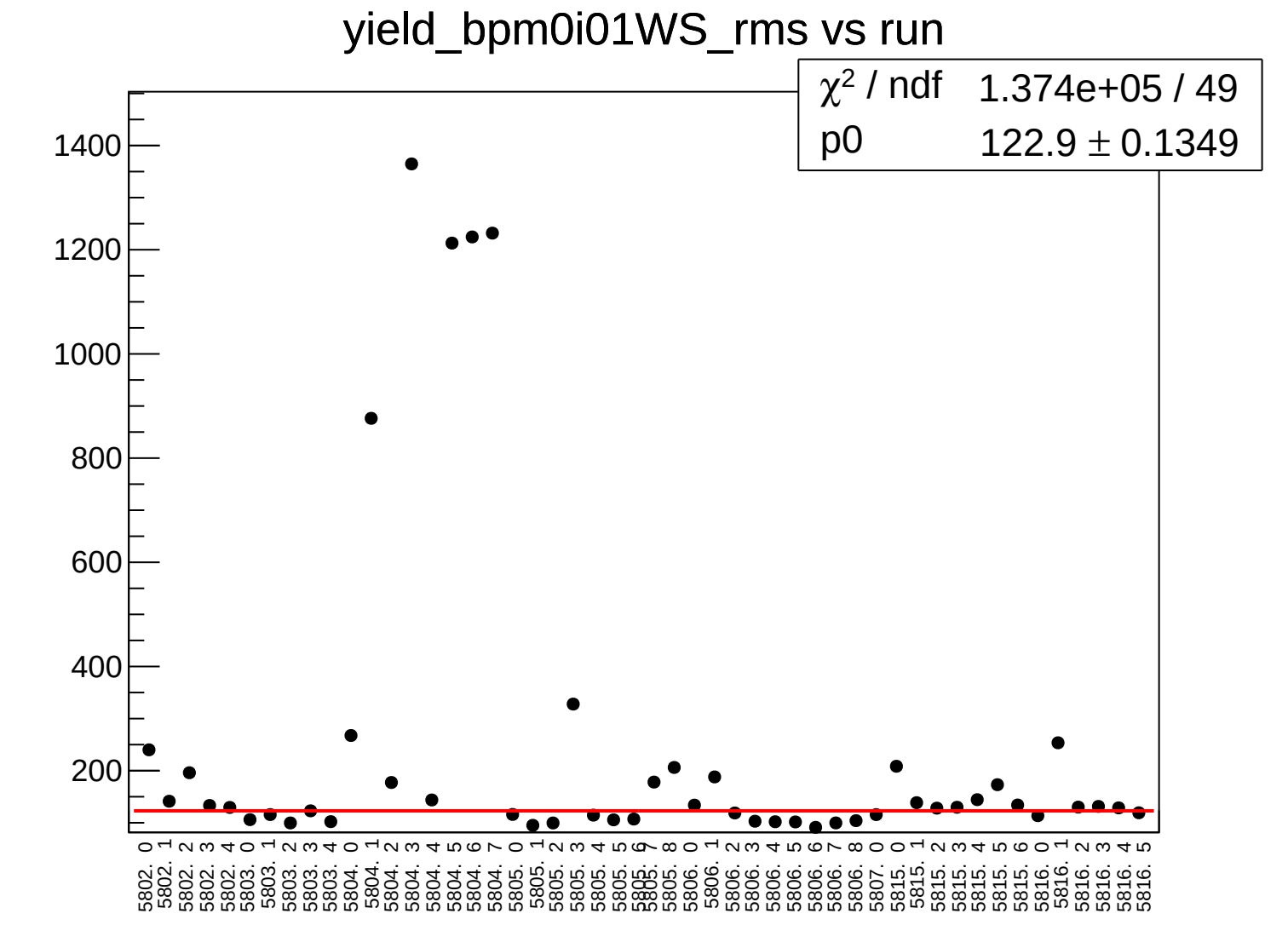

yield_bcm0l02_mean vs run
χ² / ndf 8.66e+07 / 49
p0 143 ± 0.001326
pull
Entries 50
Mean 24.49
Std Dev 29.47

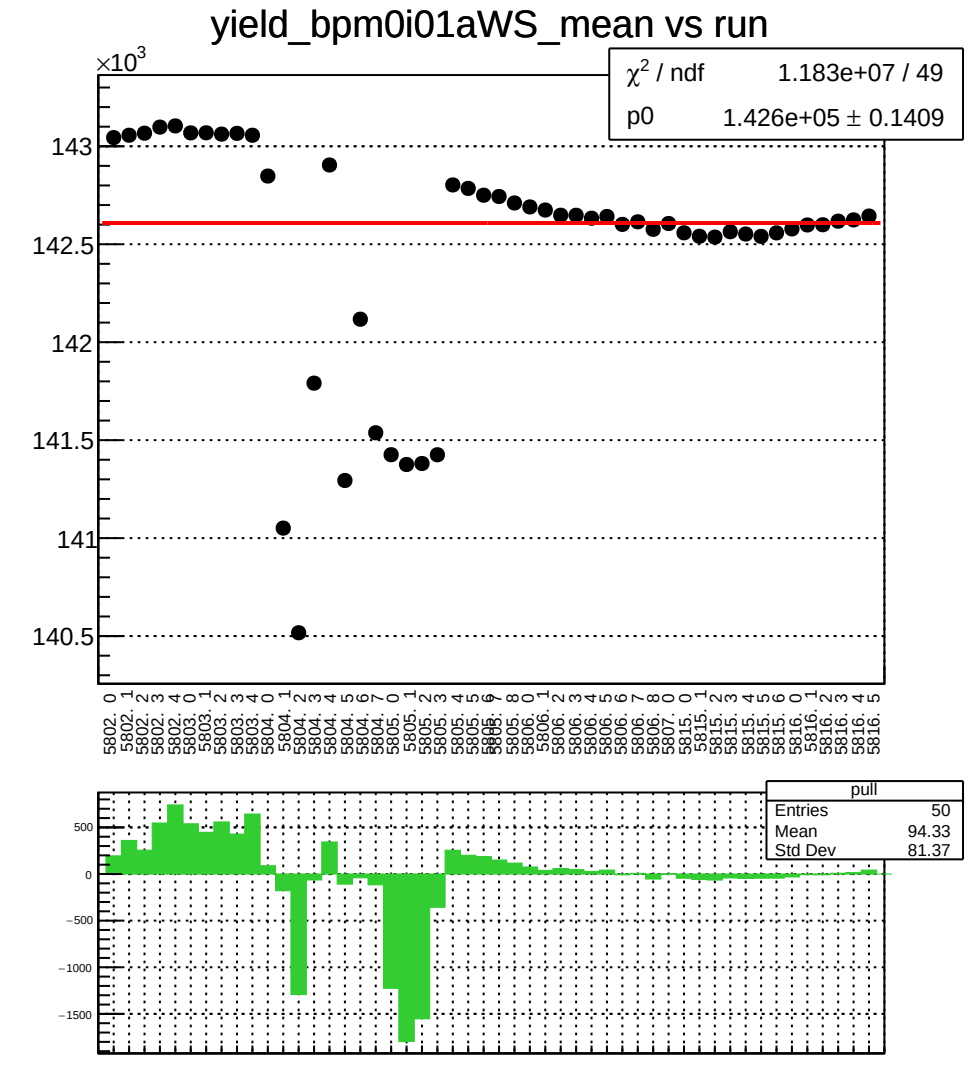

pull1D
Entries 50
Mean 0
Std Dev 0

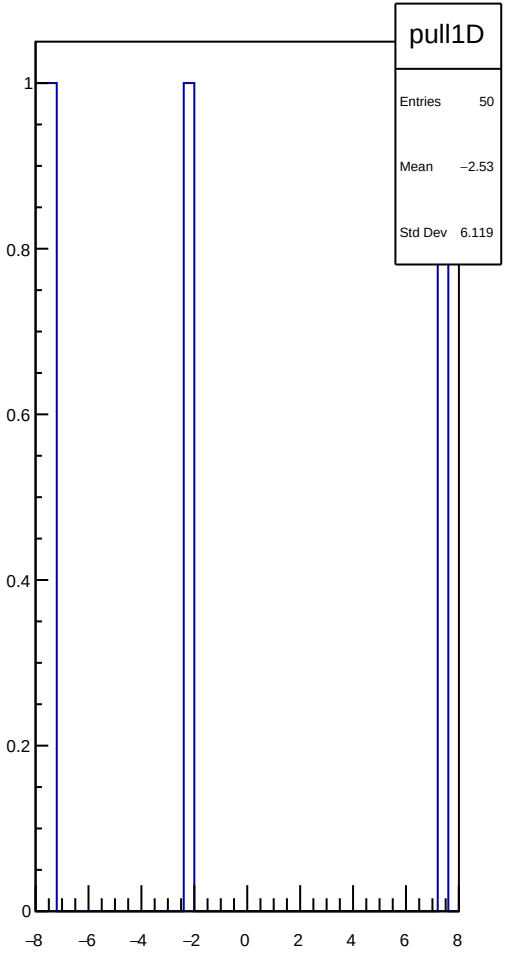

yield_bcm0l02_rms vs run
χ² / ndf 2.612e+05 / 49
p0 0.7882 ± 0.0009374
16
14
12
10
8
6
4
2
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

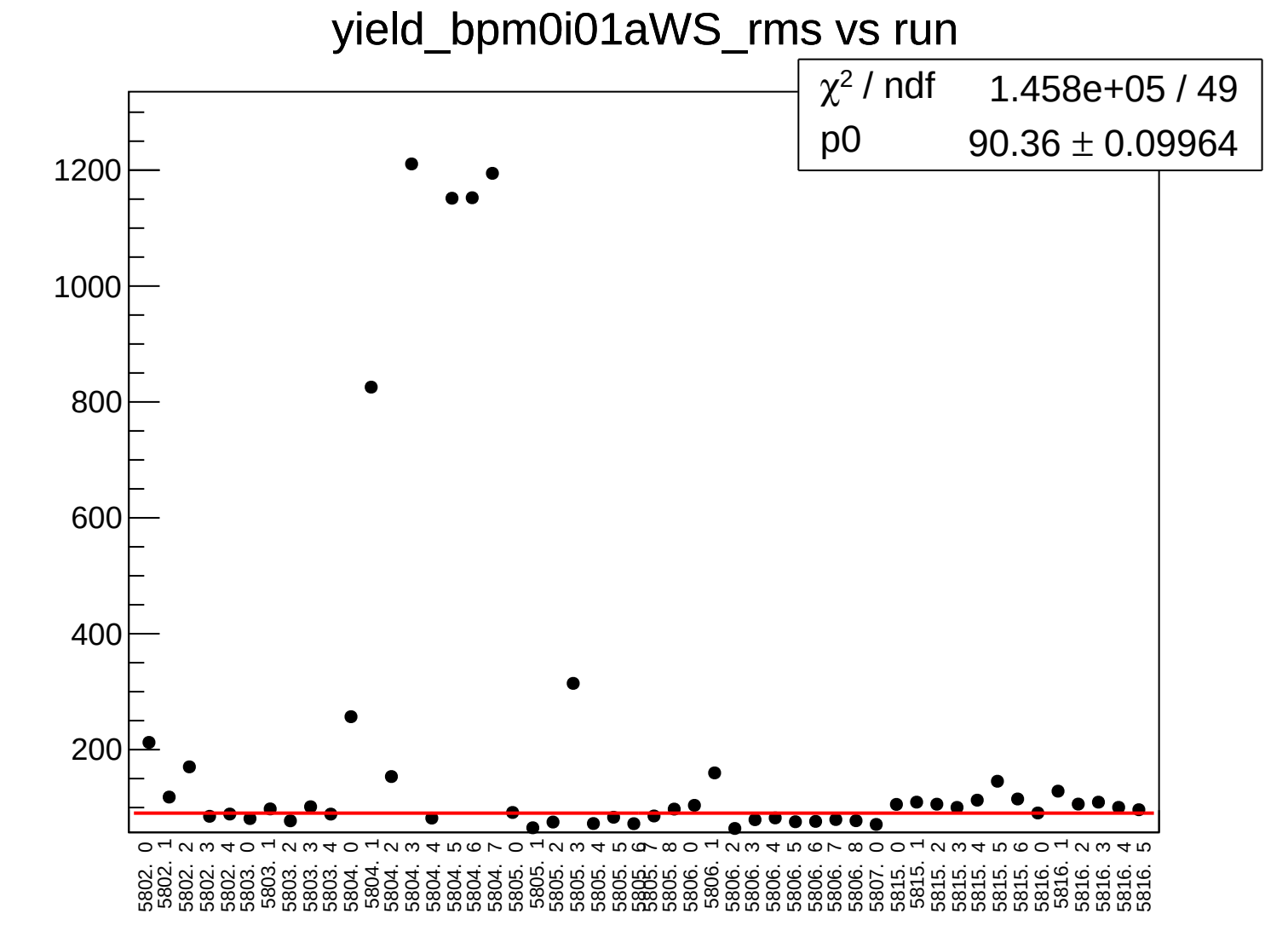

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.23e+07 / 49
p0 1.536e+05 ± 0.1908
154.5
154
153.5
153
152.5
152
151.5
pull
Entries 50
Mean 205.5
Std Dev 182.2
1000
500
0
−500
−1000

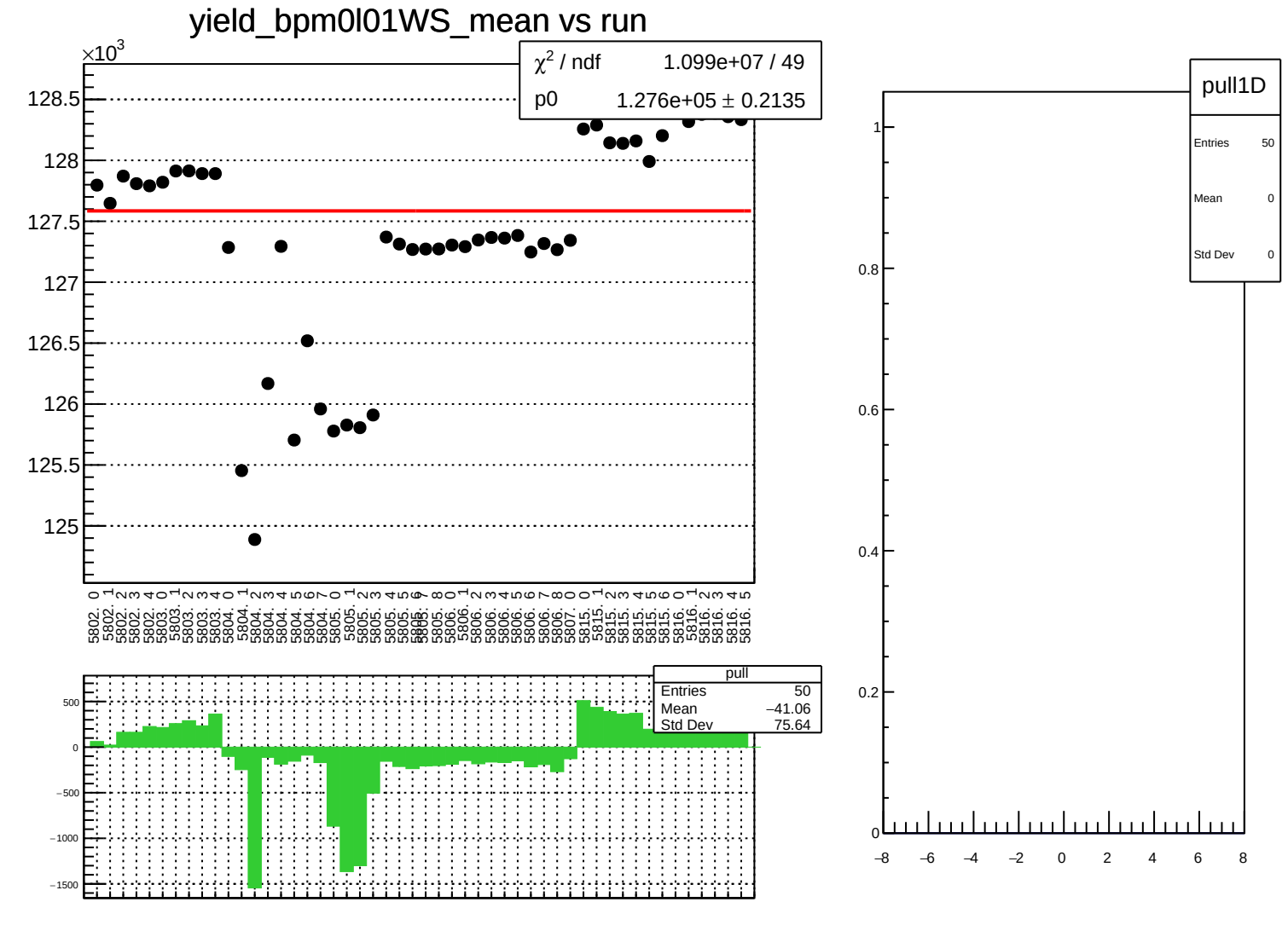

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

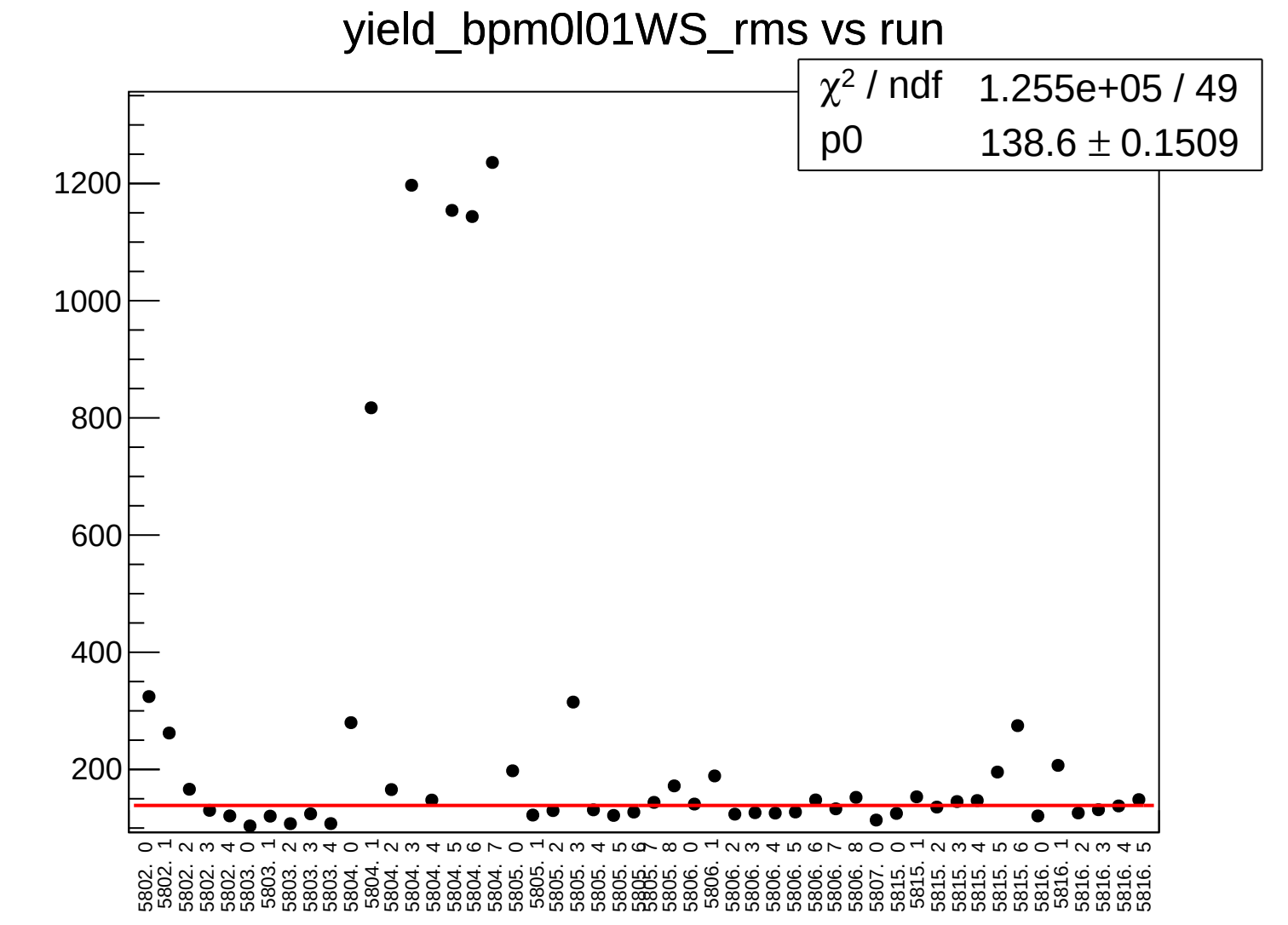

yield_bpm0i01WS_rms vs run
χ² / ndf 1.374e+05 / 49
p0 122.9 ± 0.1349
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

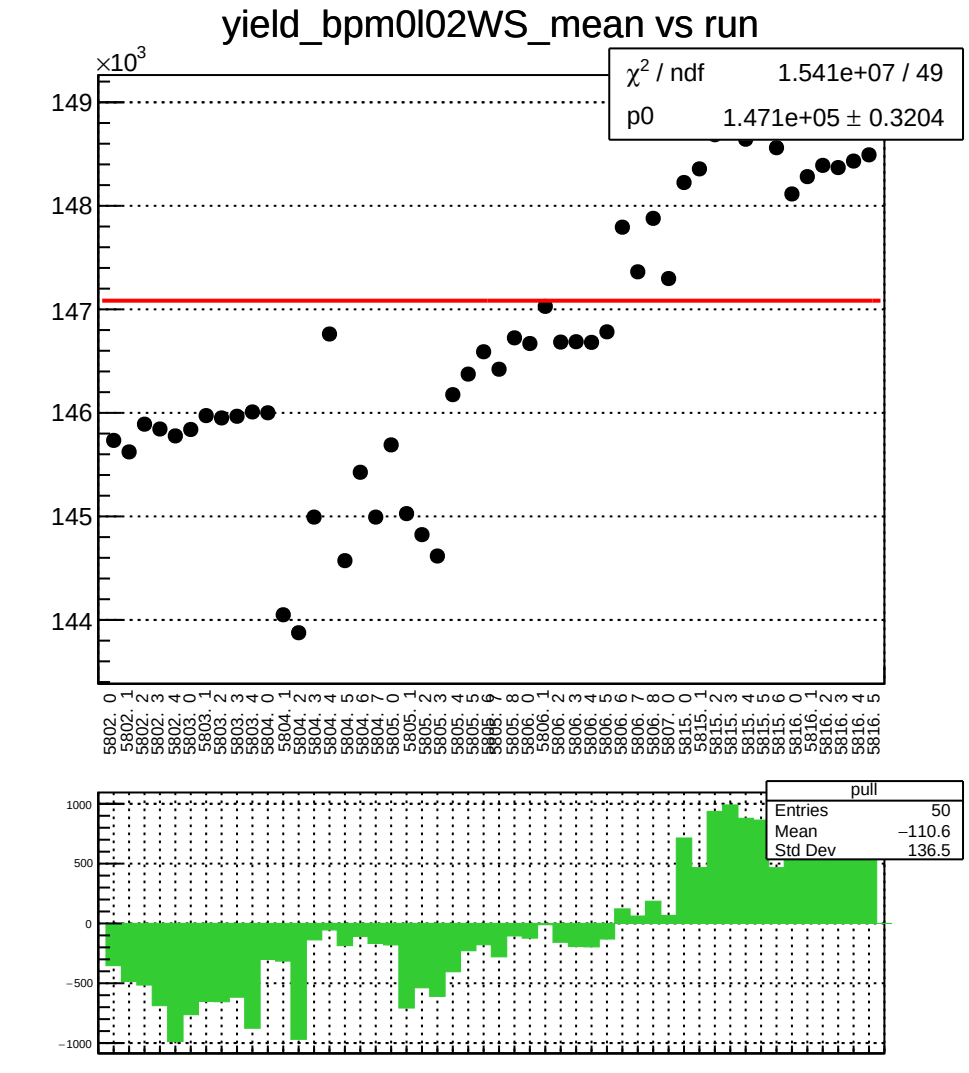

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 1.183e+07 / 49
p0 1.426e+05 ± 0.1409
143
142.5
142
141.5
141
140.5
pull
Entries 50
Mean 94.33
Std Dev 81.37
500
0
−500
−1000
−1500

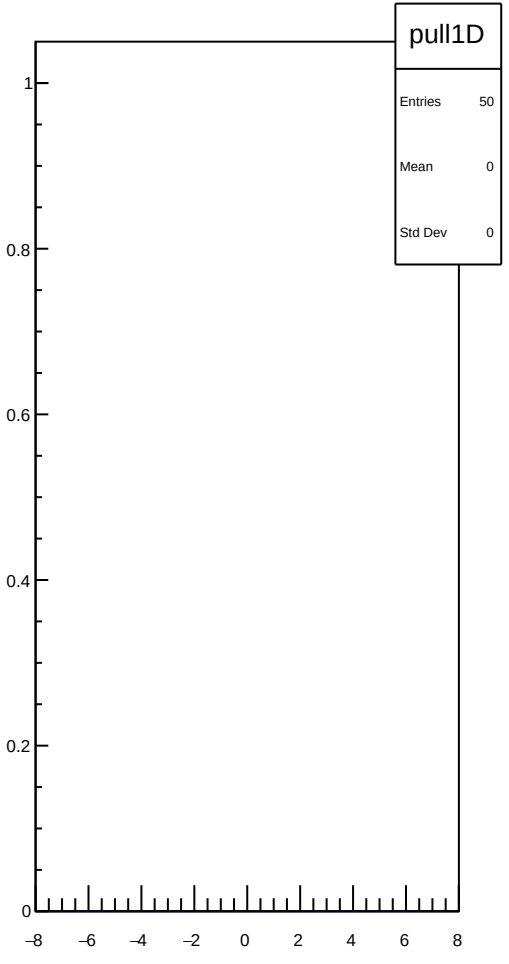

pull1D
Entries 50
Mean −2.53
Std Dev 6.119
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

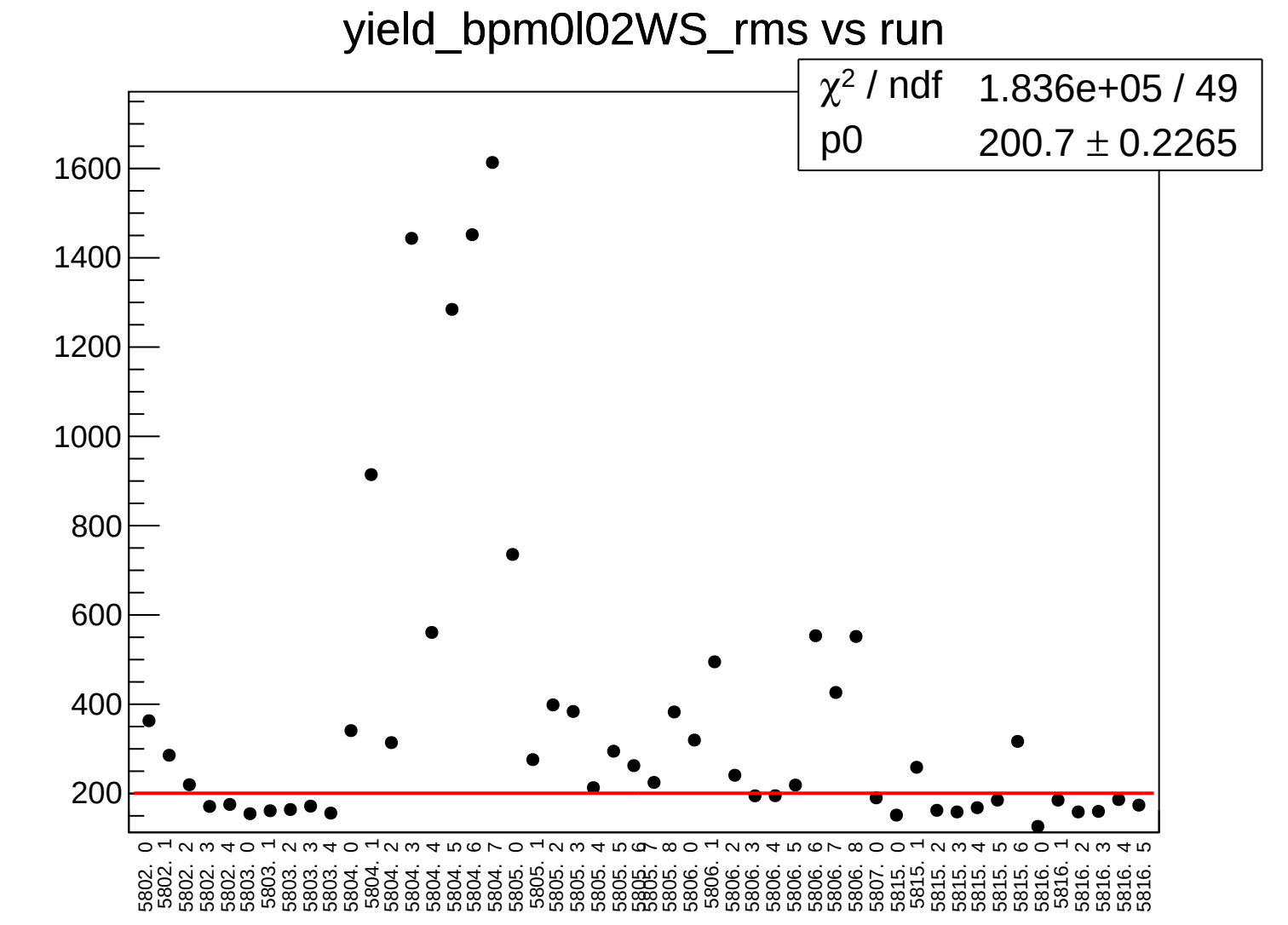

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.458e+05 / 49
p0 90.36 ± 0.09964
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

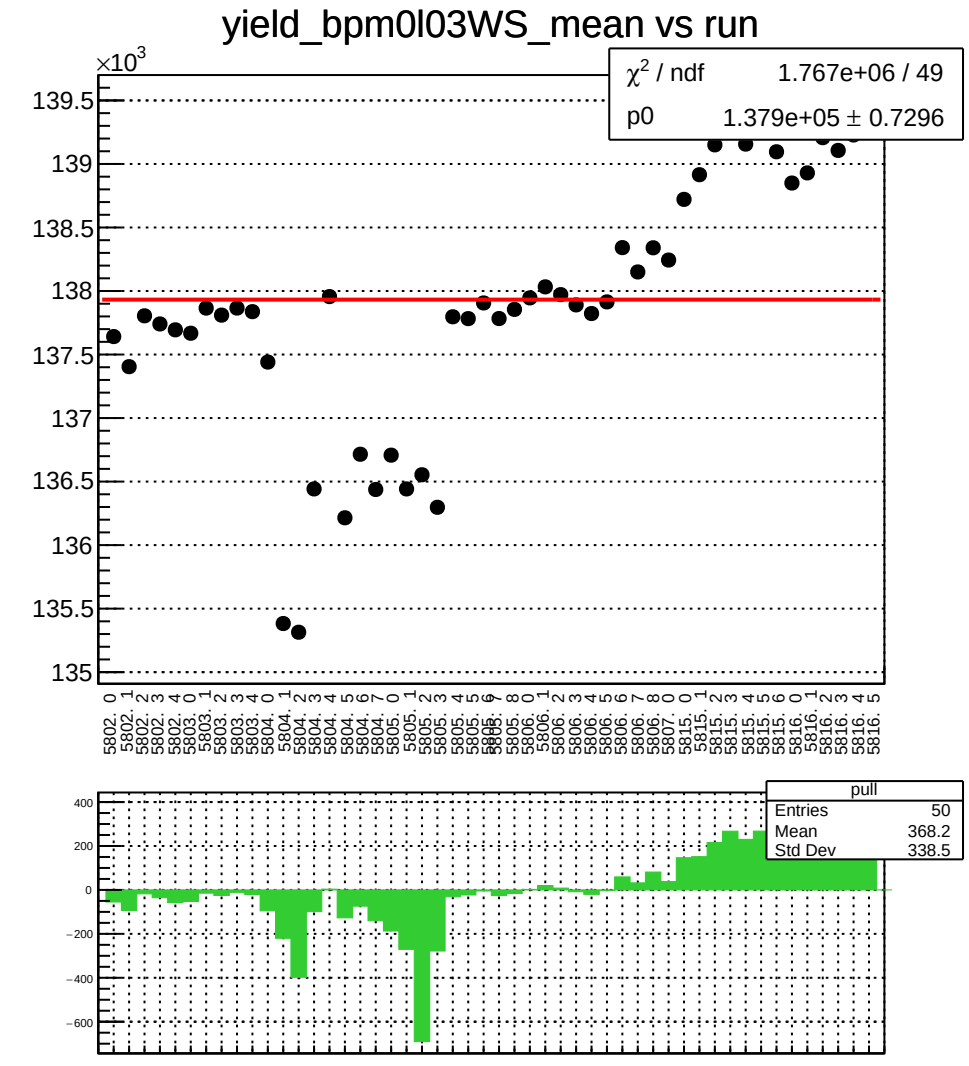

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.099e+07 / 49
p0 1.276e+05 ± 0.2135
128.5
128
127.5
127
126.5
126
125.5
125
pull
Entries 50
Mean −41.06
Std Dev 75.64
500
0
−500
−1000
−1500
pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

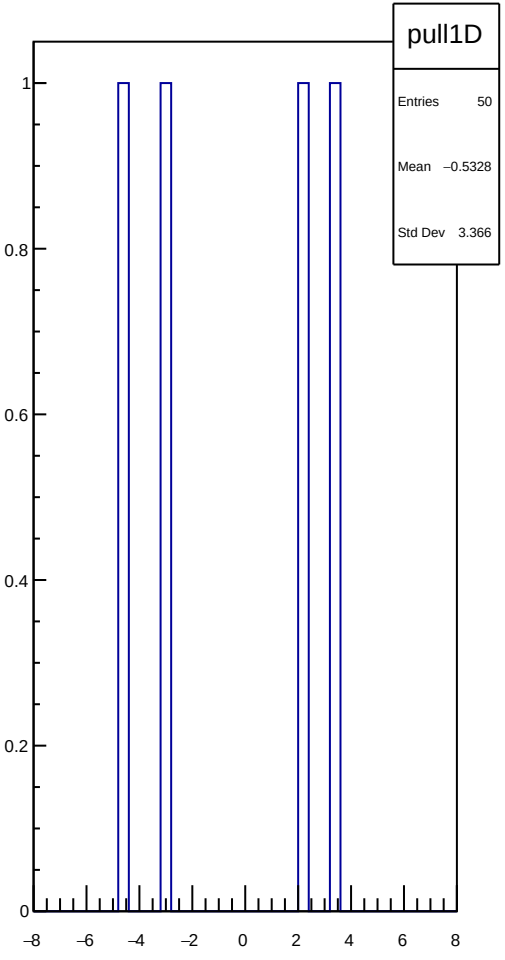

yield_bpm0l01WS_rms vs run
χ² / ndf 1.255e+05 / 49
p0 138.6 ± 0.1509
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

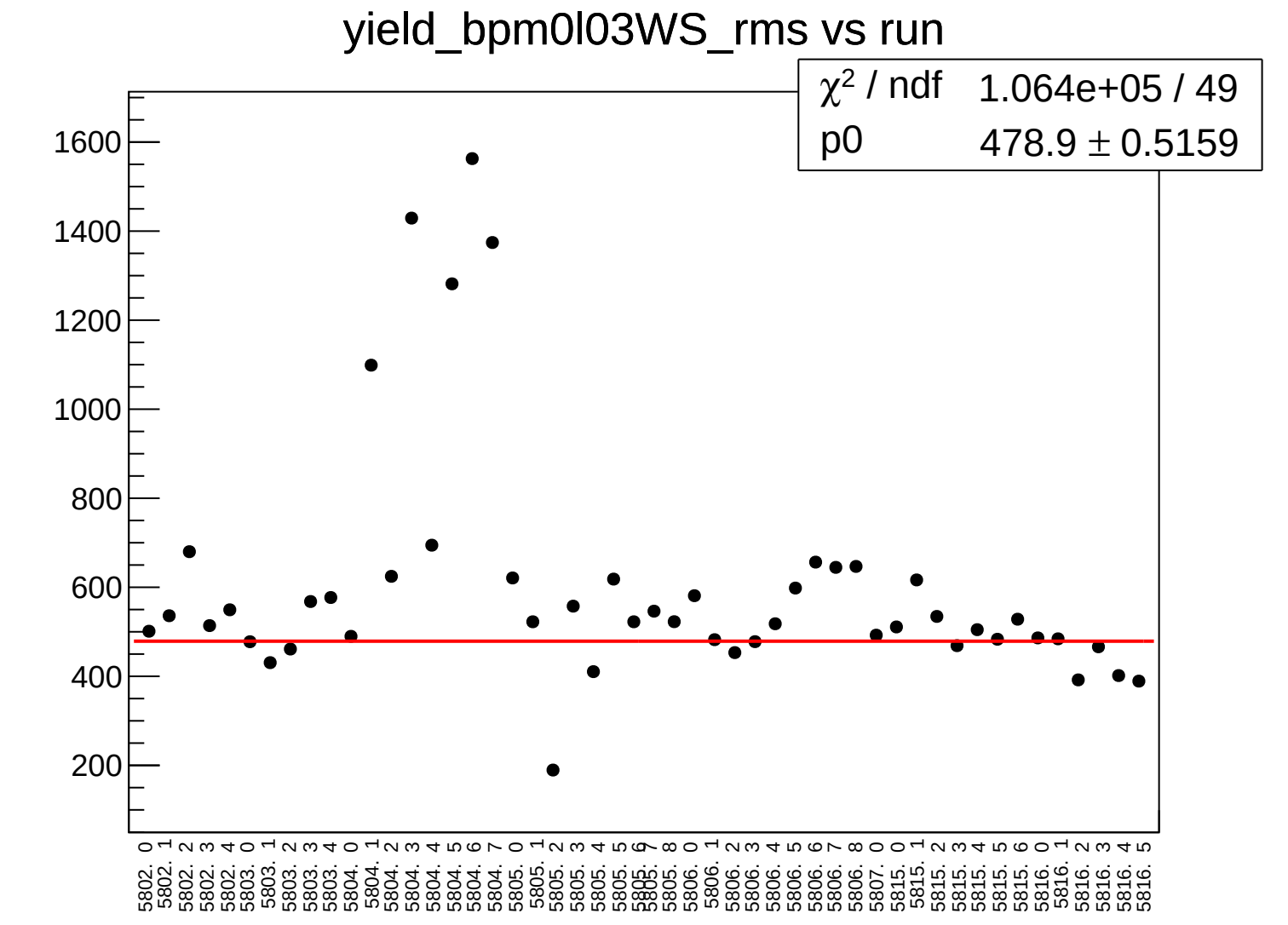

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.541e+07 / 49
p0 1.471e+05 ± 0.3204
149
148
147
146
145
144
pull
Entries 50
Mean −110.6
Std Dev 136.5
1000
500
0
−500
−1000

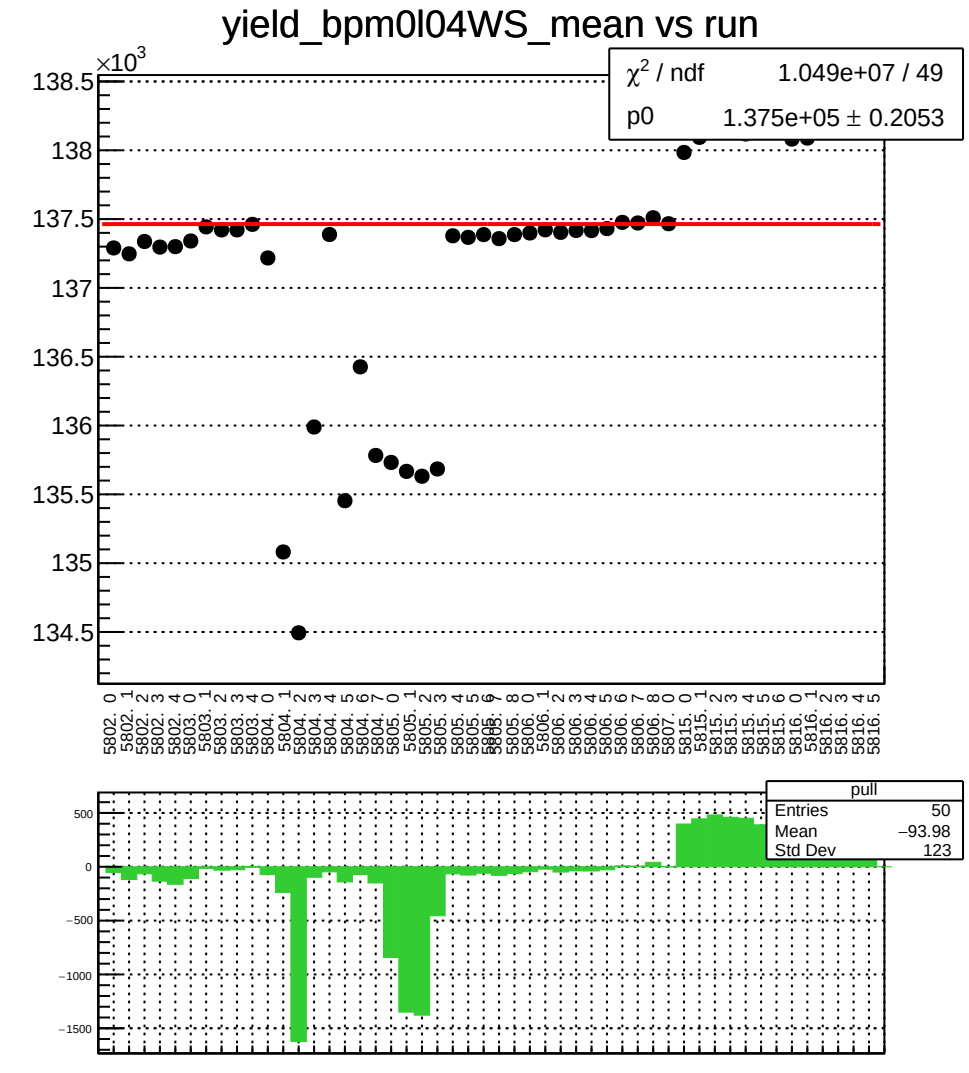

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

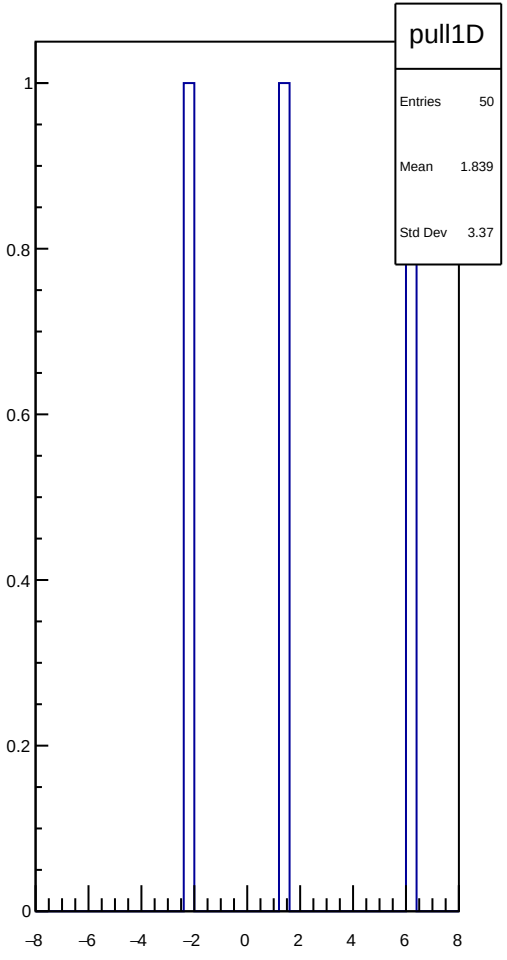

yield_bpm0l02WS_rms vs run
χ² / ndf 1.836e+05 / 49
p0 200.7 ± 0.2265
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

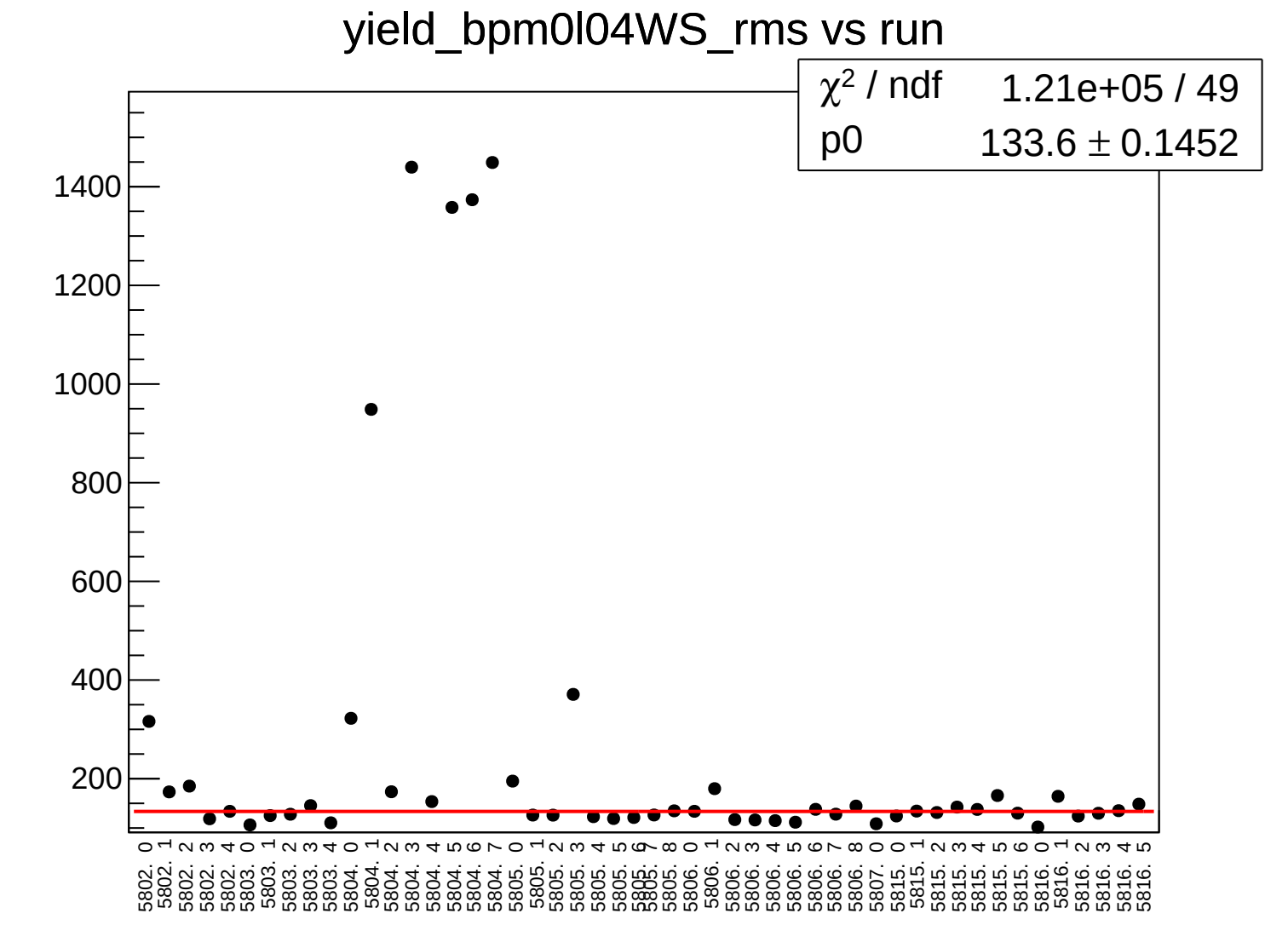

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.767e+06 / 49
p0 1.379e+05 ± 0.7296
139.5
139
138.5
138
137.5
137
136.5
136
135.5
135
pull
Entries 50
Mean 368.2
Std Dev 338.5
400
200
0
−200
−400
−600

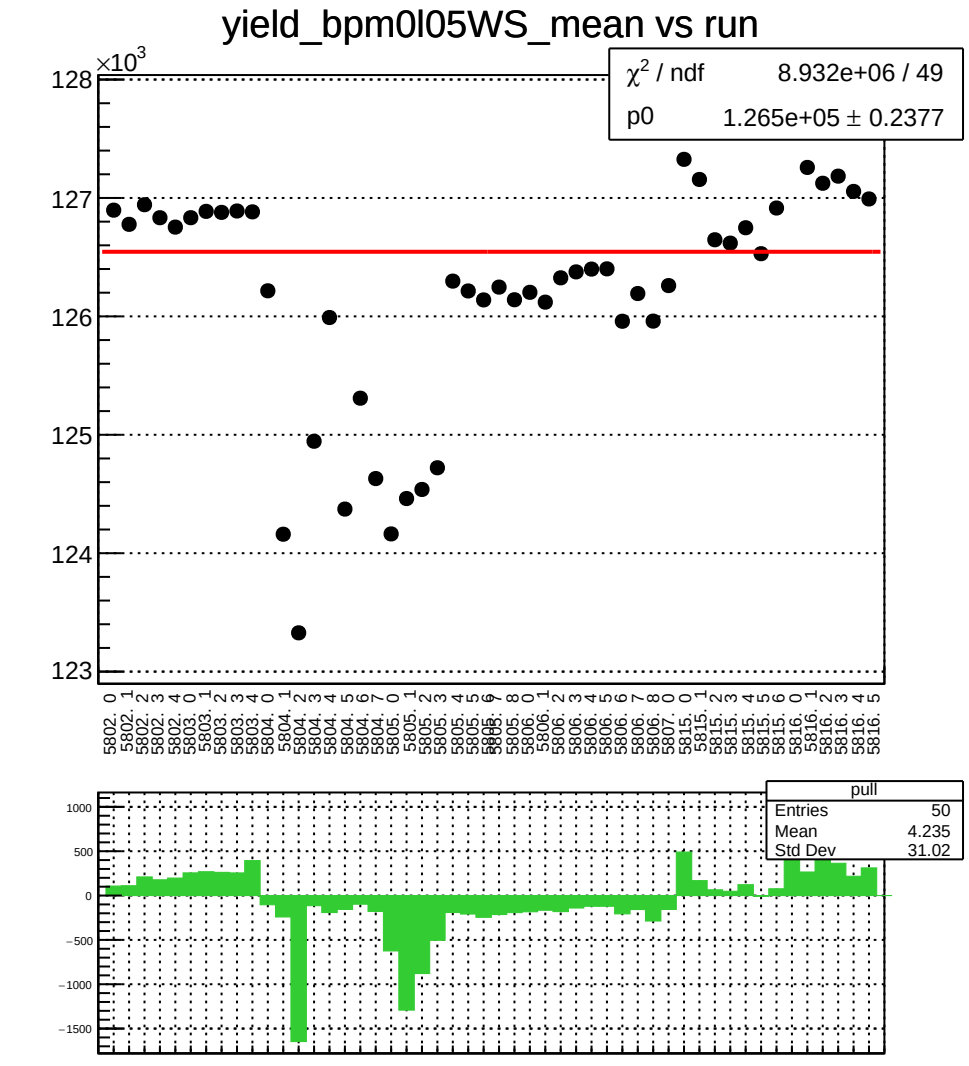

pull1D
Entries 50
Mean −0.5328
Std Dev 3.366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

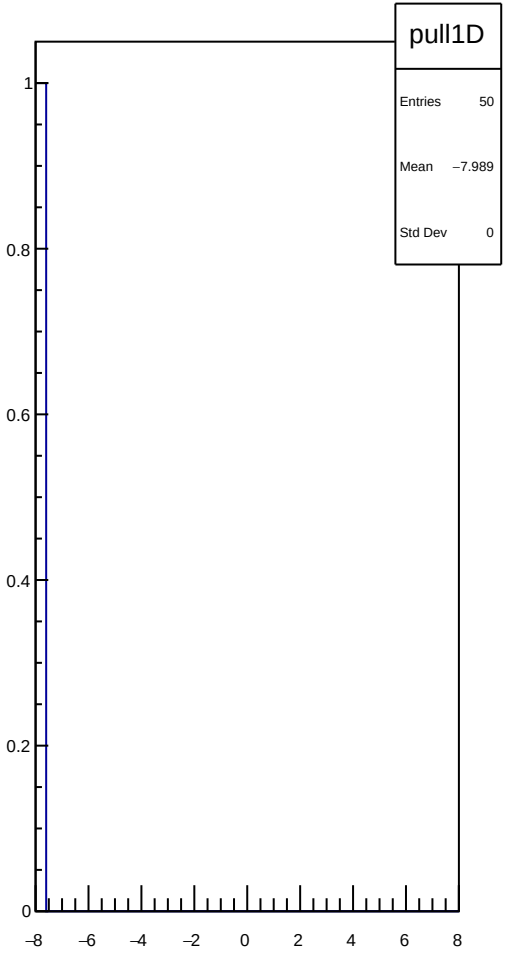

yield_bpm0l03WS_rms vs run
χ² / ndf 1.064e+05 / 49
p0 478.9 ± 0.5159
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

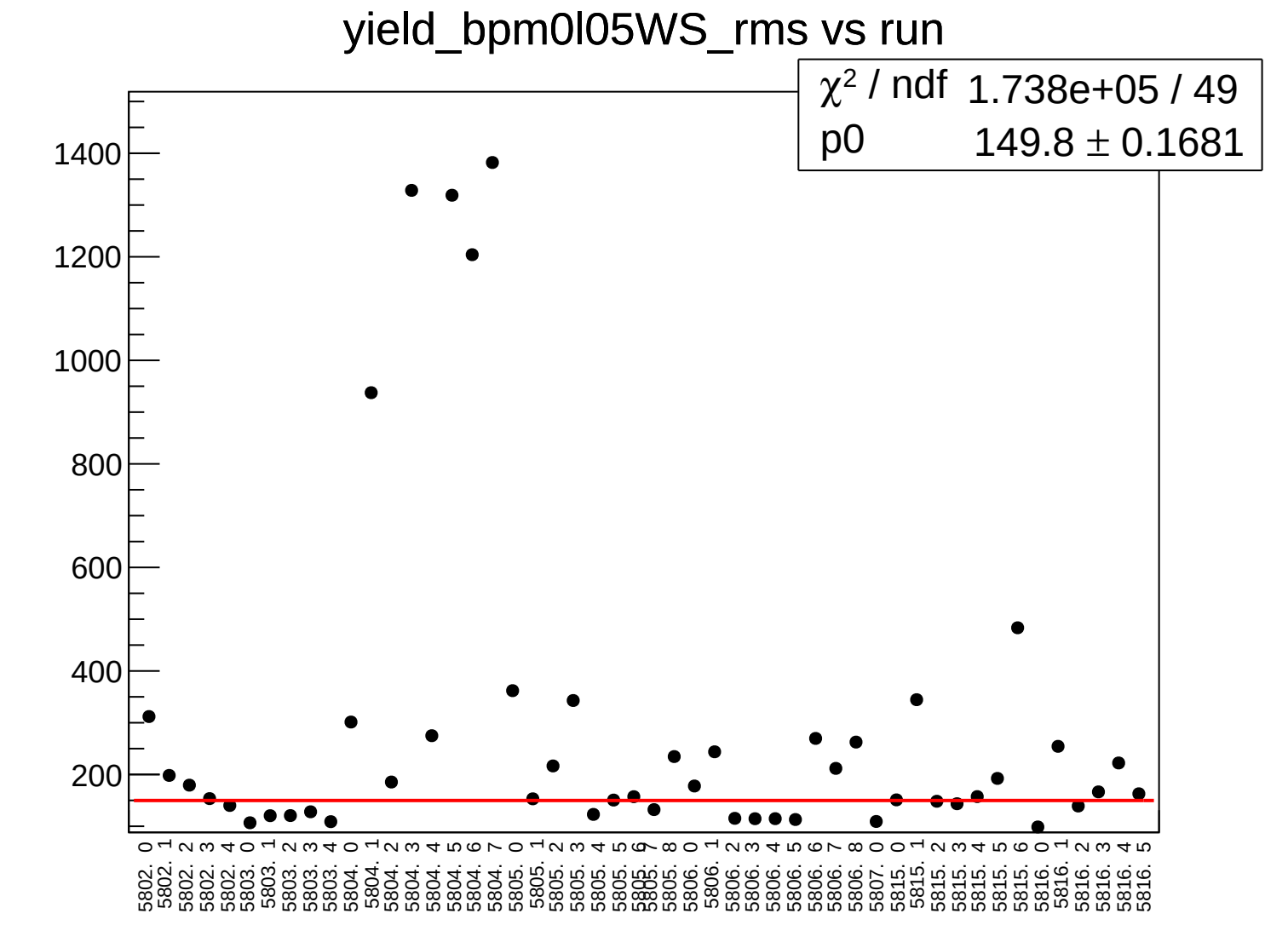

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.049e+07 / 49
p0 1.375e+05 ± 0.2053
138.5
138
137.5
137
136.5
136
135.5
135
134.5
pull
Entries 50
Mean −93.98
Std Dev 123
500
0
−500
−1000
−1500

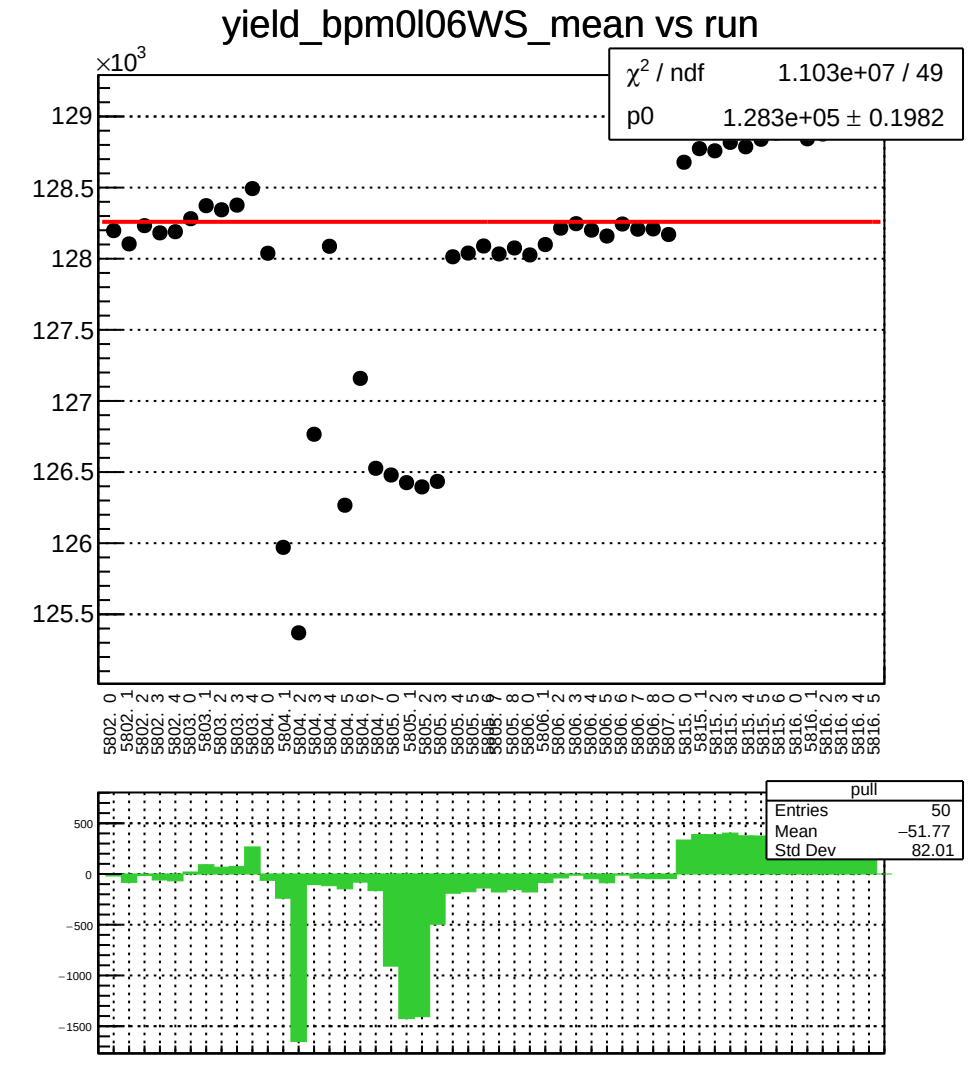

pull1D
Entries 50
Mean 1.839
Std Dev 3.37
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

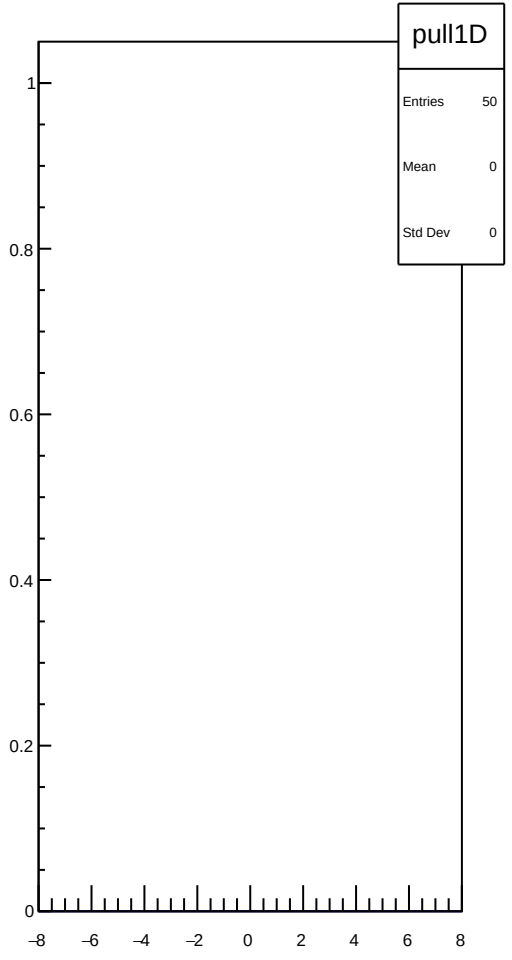

yield_bpm0l04WS_rms vs run
χ² / ndf 1.21e+05 / 49
p0 133.6 ± 0.1452
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

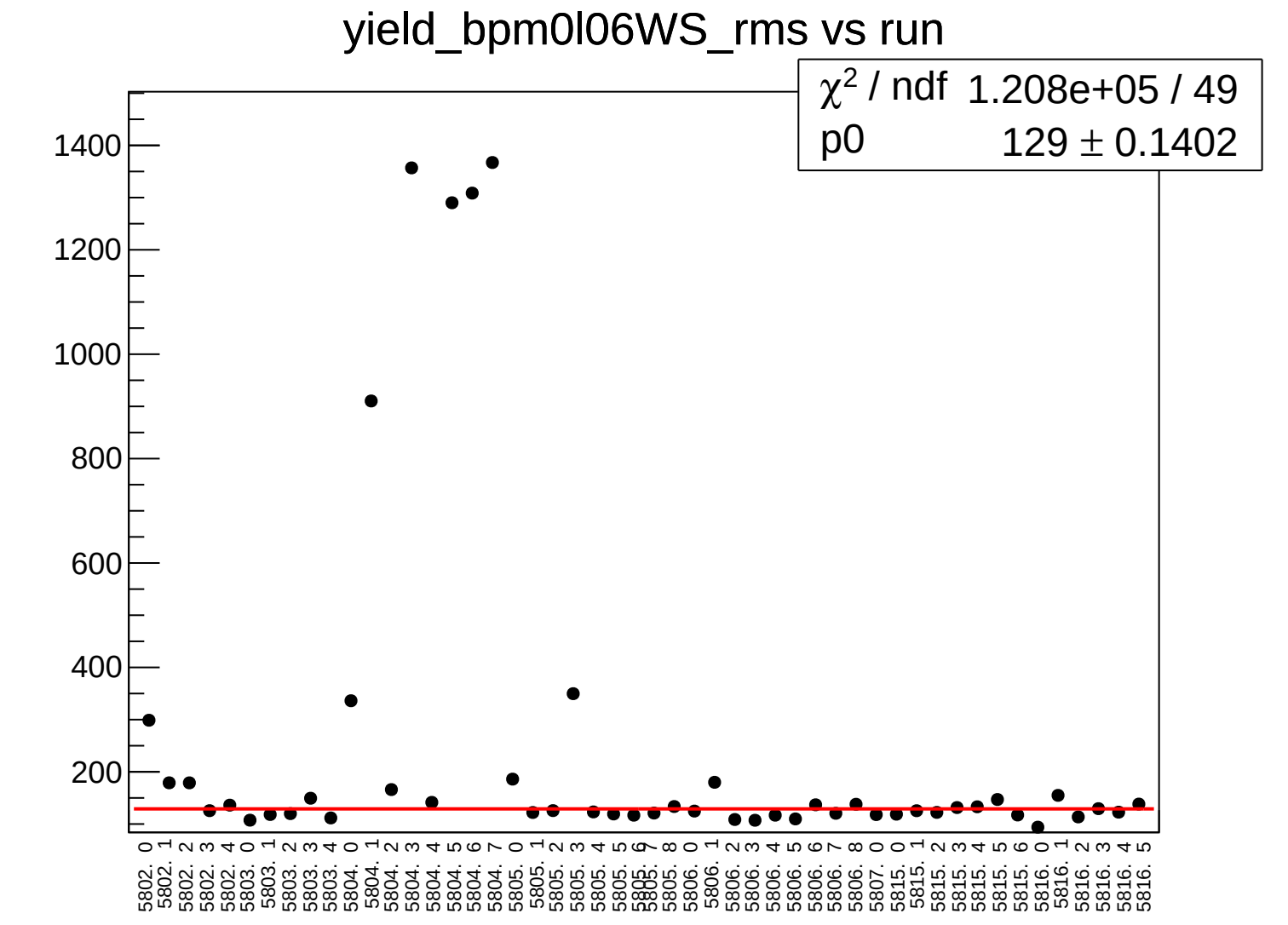

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 8.932e+06 / 49
p0 1.265e+05 ± 0.2377
128
127
126
125
124
123
pull
Entries 50
Mean 4.235
Std Dev 31.02
1000
500
0
−500
−1000
−1500

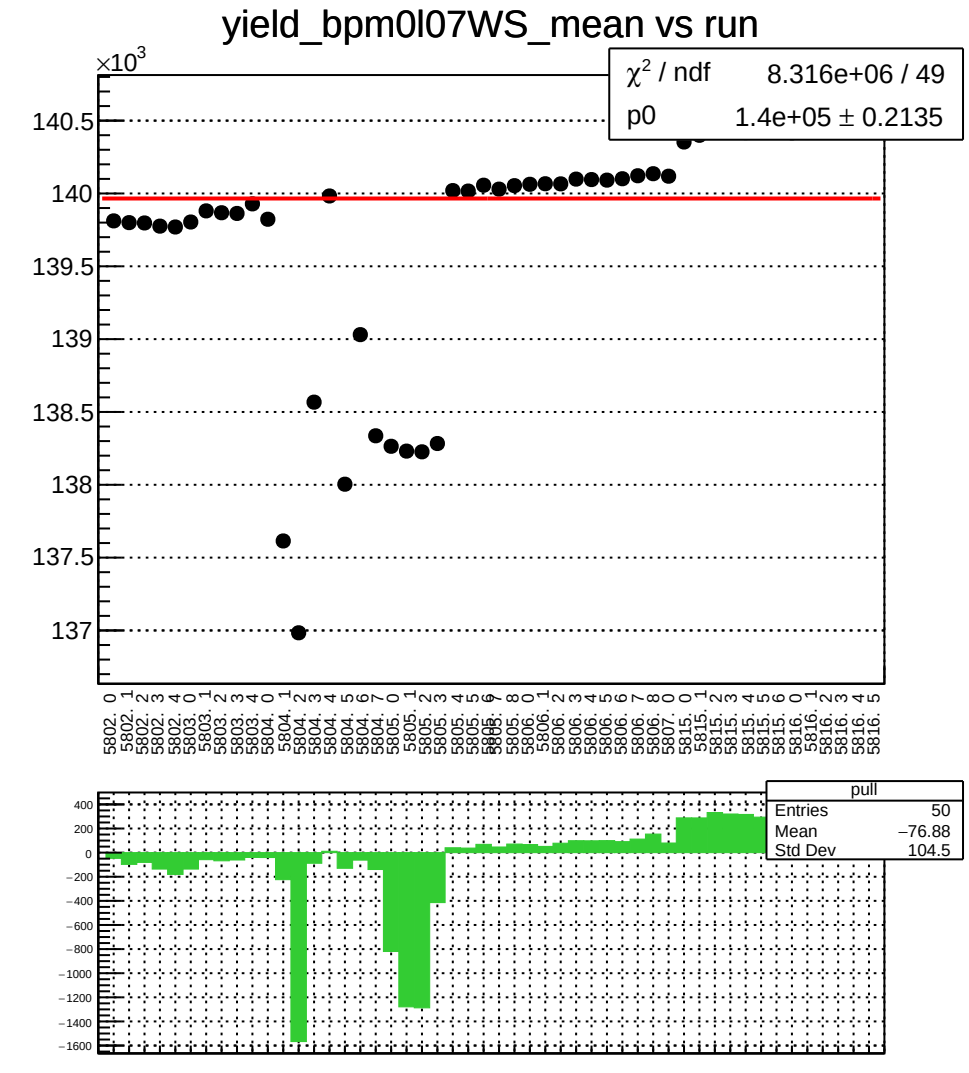

pull1D
Entries 50
Mean −7.989
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

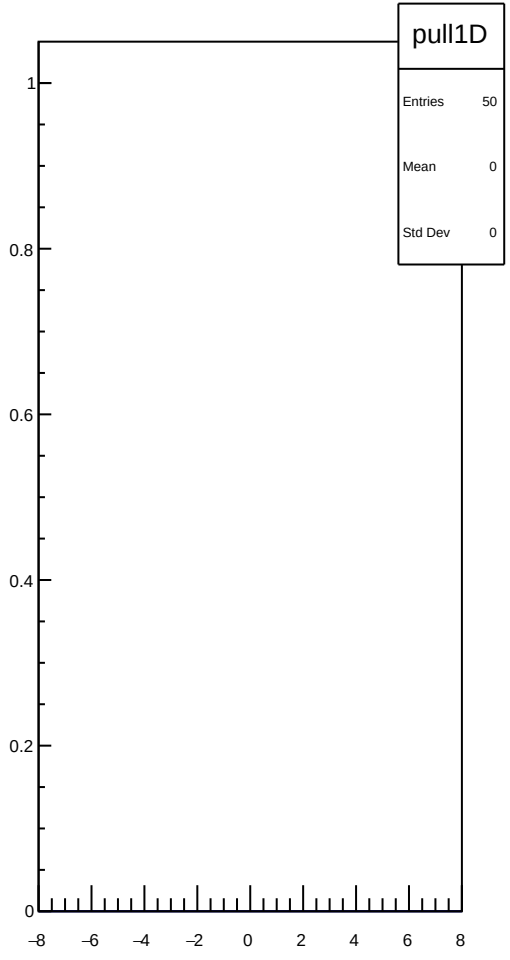

yield_bpm0l05WS_rms vs run
χ² / ndf 1.738e+05 / 49
p0 149.8 ± 0.1681
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

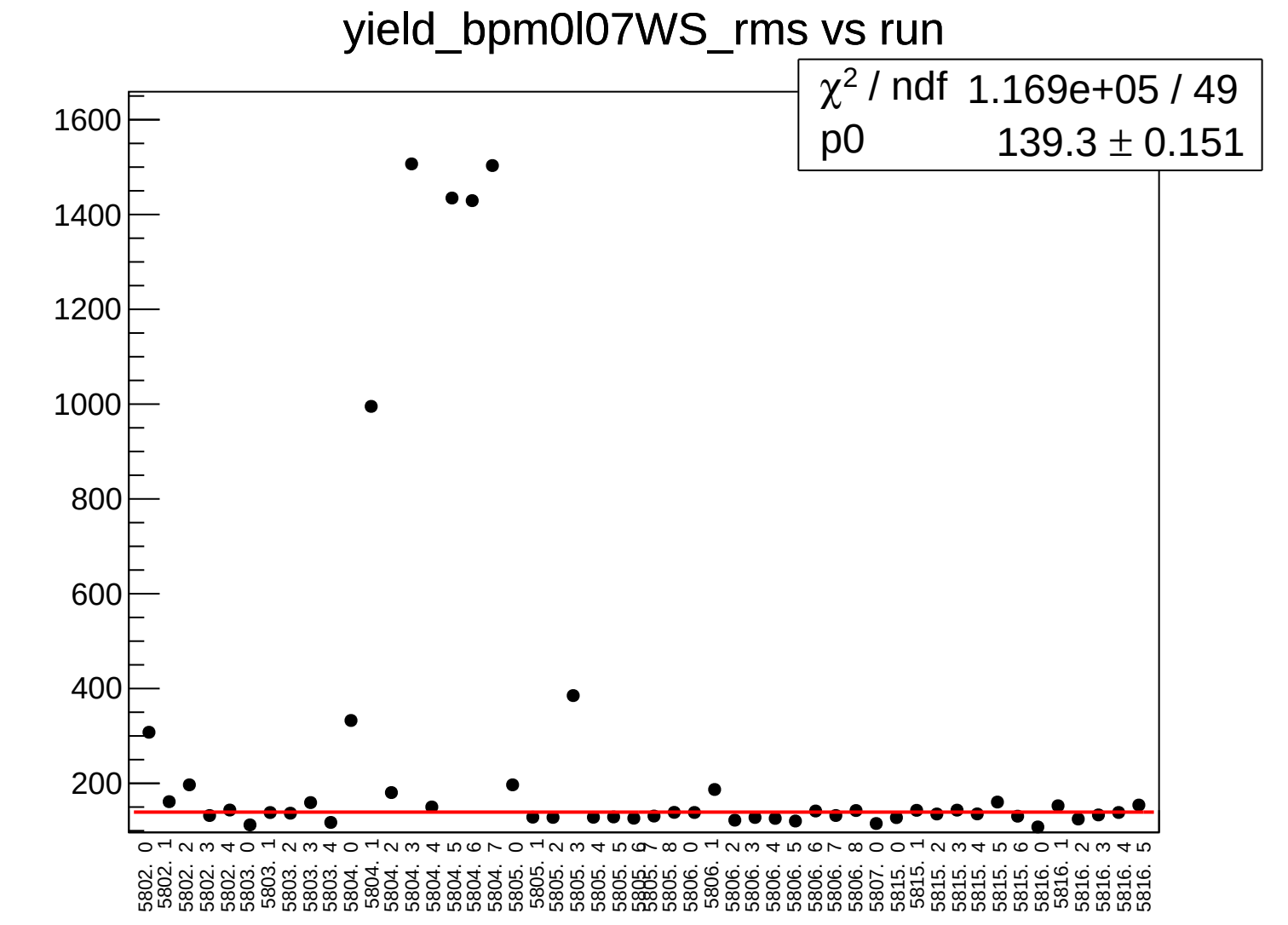

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.103e+07 / 49
p0 1.283e+05 ± 0.1982
129
128.5
128
127.5
127
126.5
126
125.5
pull
Entries 50
Mean −51.77
Std Dev 82.01
500
0
−500
−1000
−1500

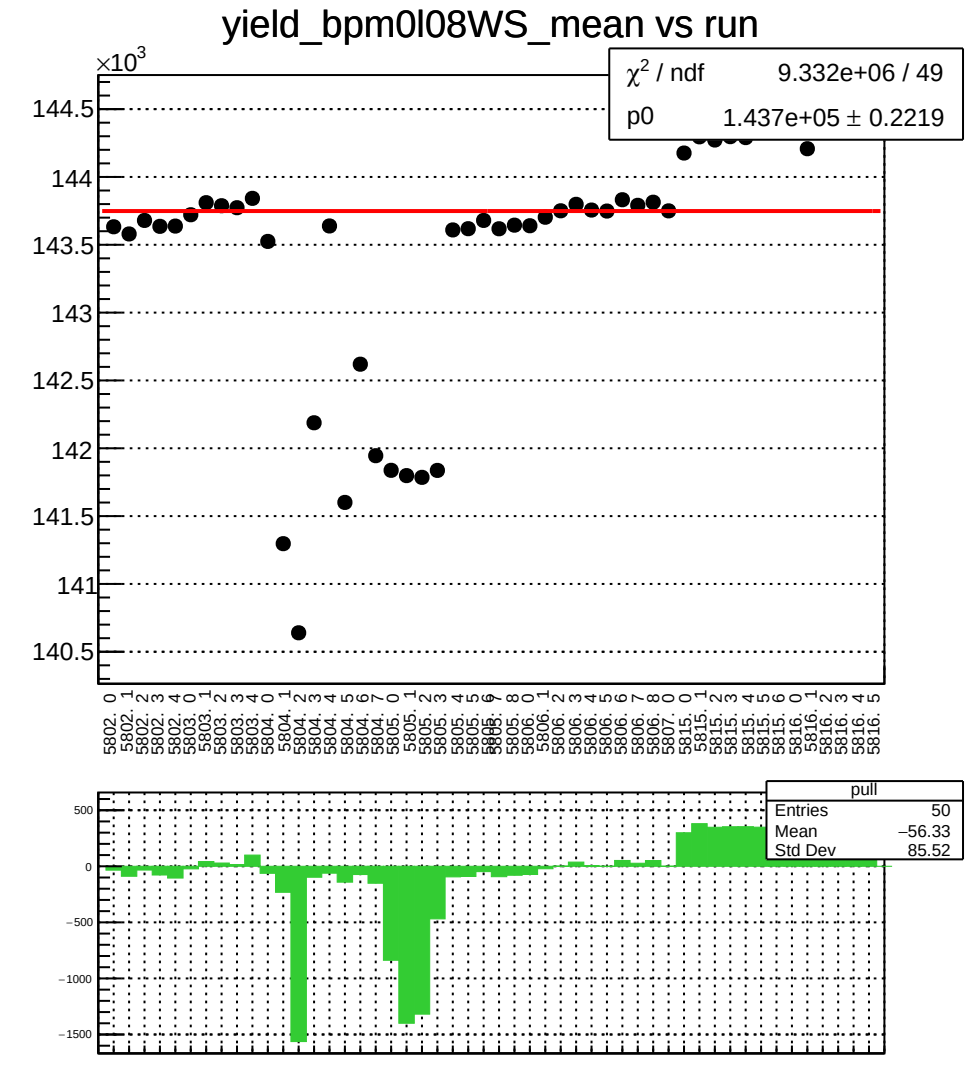

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

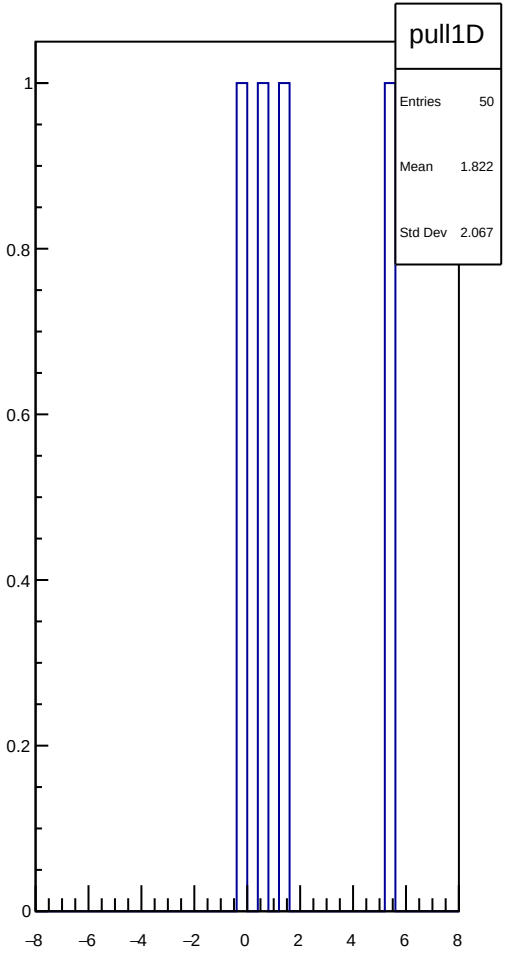

yield_bpm0l06WS_rms vs run
χ² / ndf 1.208e+05 / 49
p0 129 ± 0.1402
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

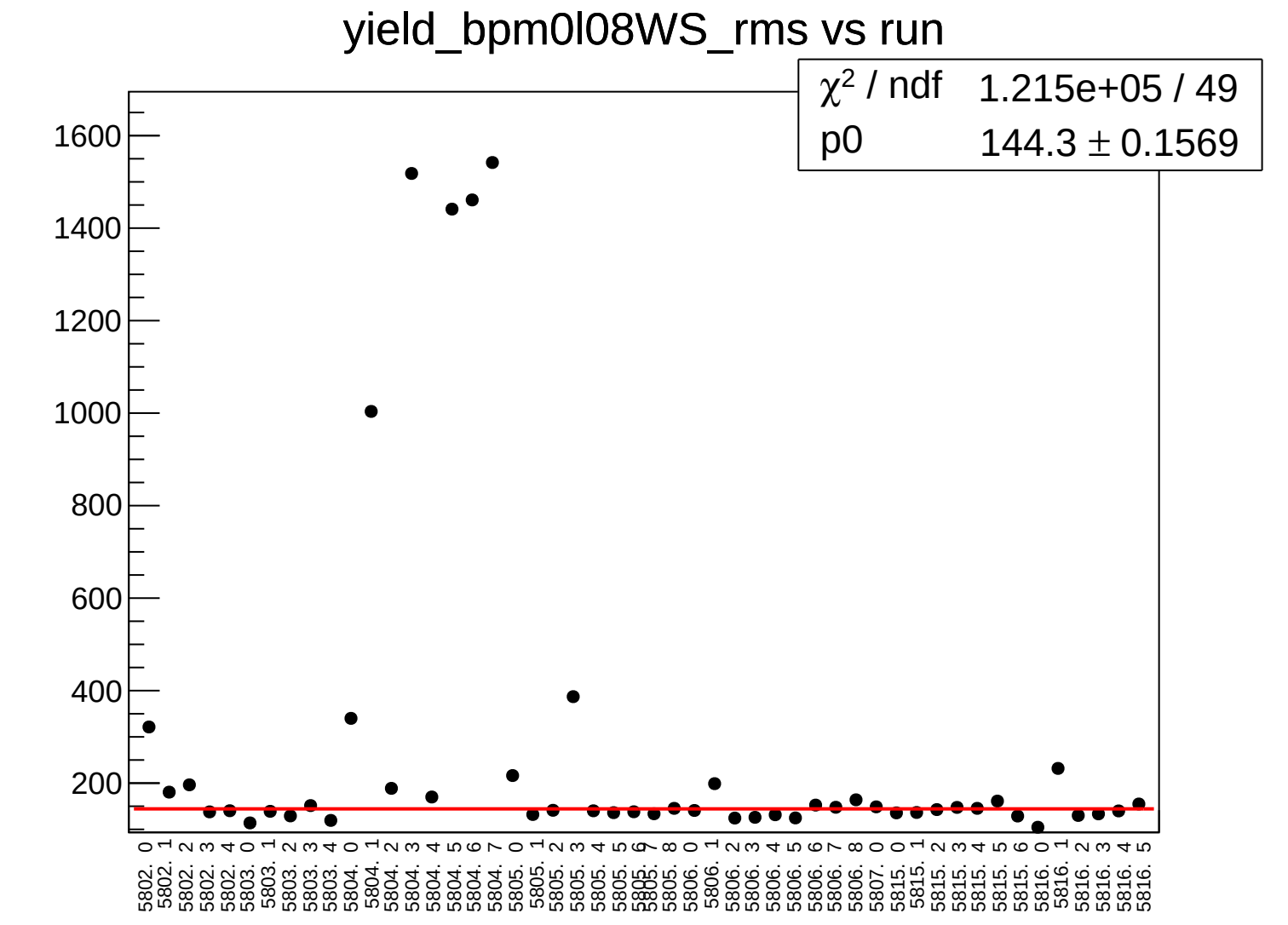

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 8.316e+06 / 49
p0 1.4e+05 ± 0.2135
140.5
140
139.5
139
138.5
138
137.5
137
pull
Entries 50
Mean −76.88
Std Dev 104.5
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

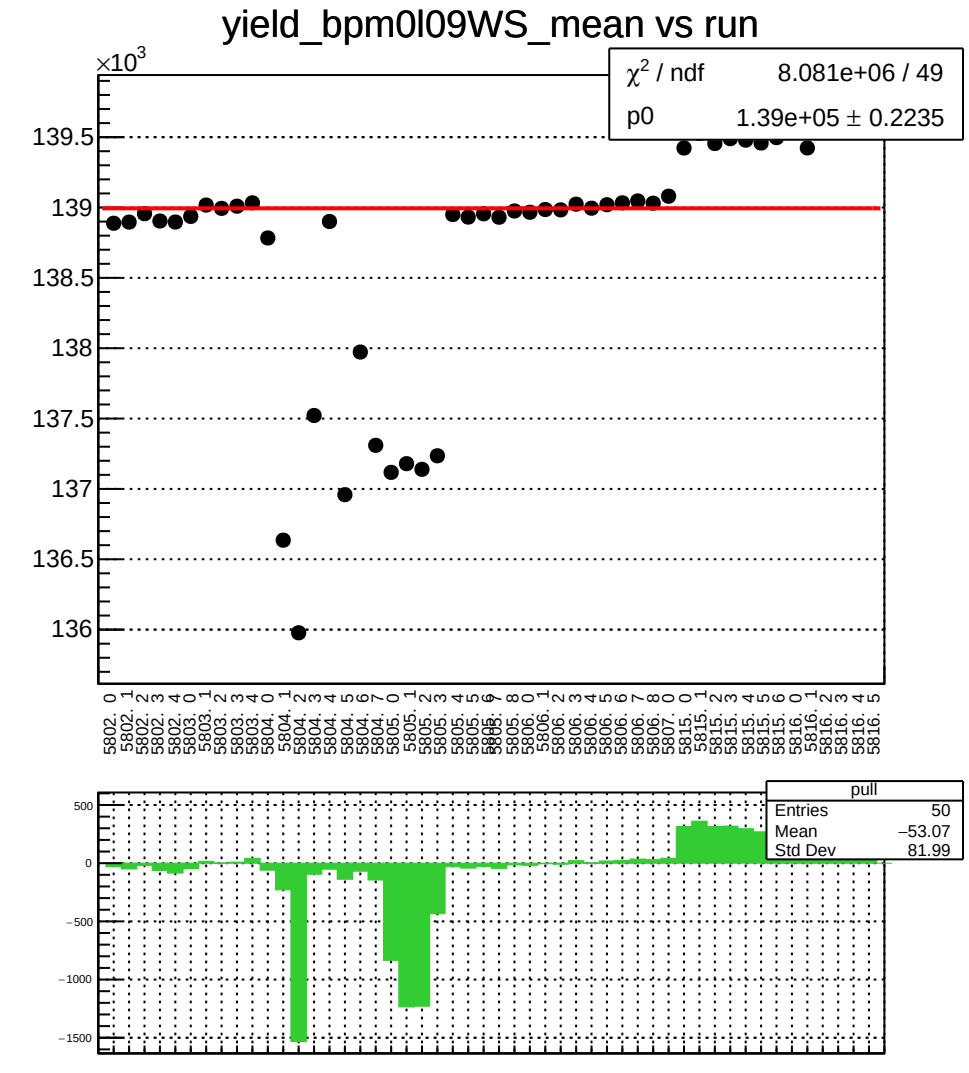

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

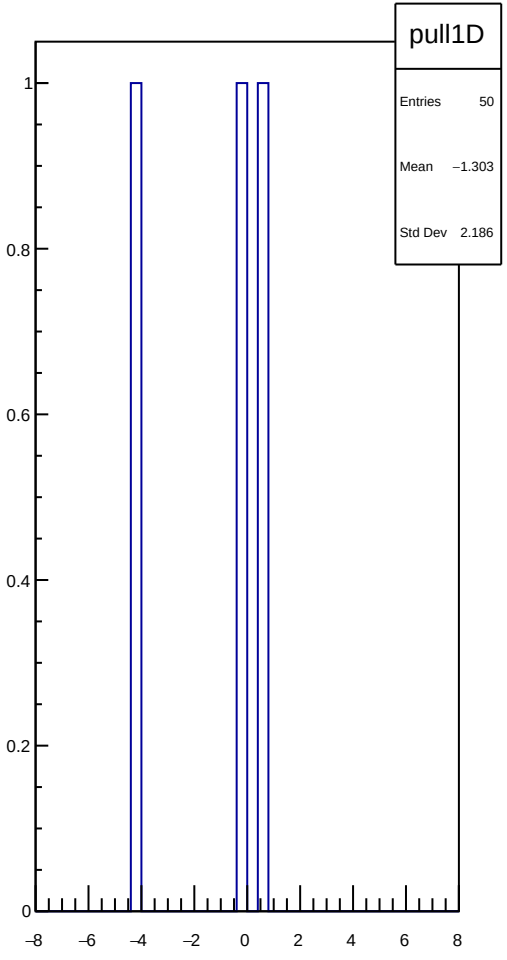

yield_bpm0l07WS_rms vs run
χ² / ndf 1.169e+05 / 49
p0 139.3 ± 0.151
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

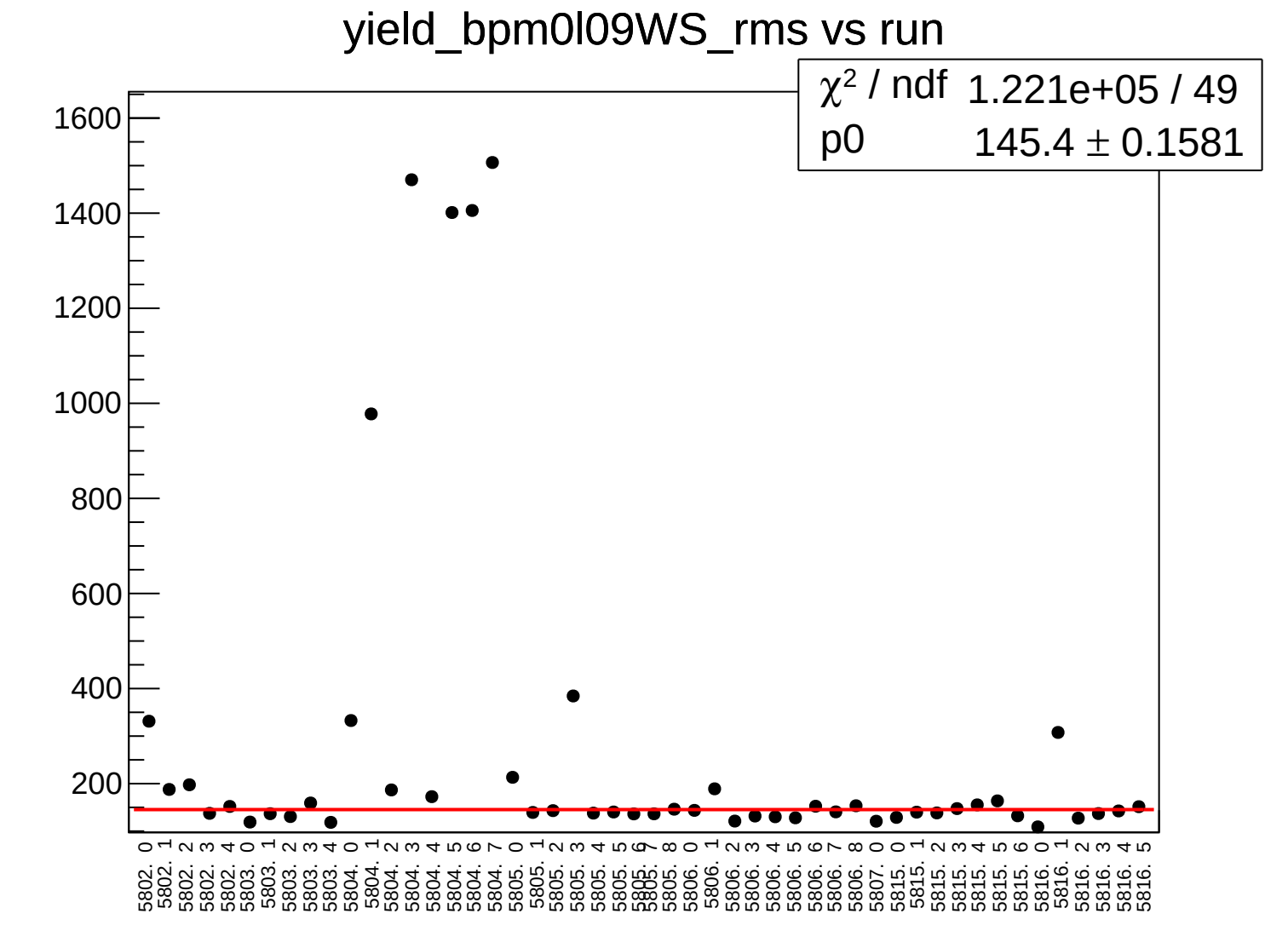

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 9.332e+06 / 49
p0 1.437e+05 ± 0.2219
144.5
144
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 50
Mean −56.33
Std Dev 85.52
500
0
−500
−1000
−1500

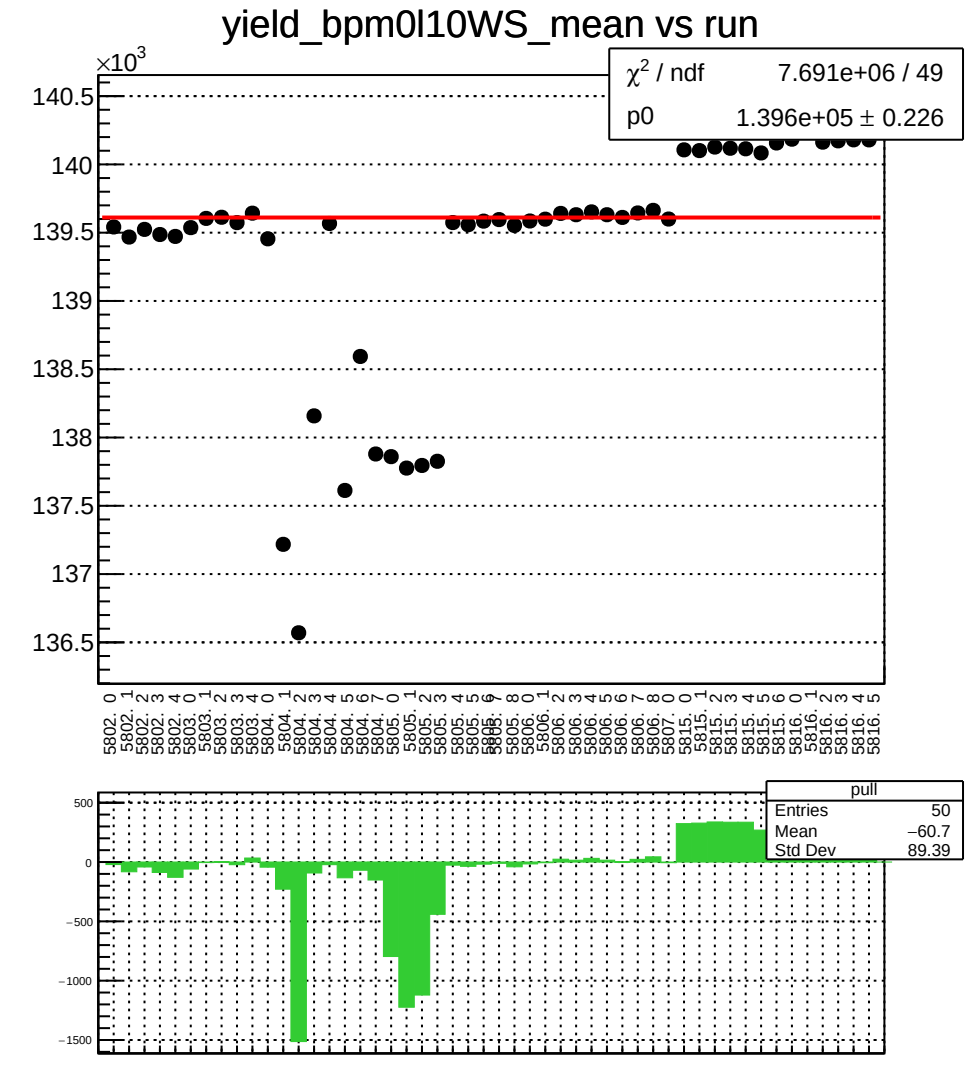

pull1D
Entries 50
Mean 1.822
Std Dev 2.067
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

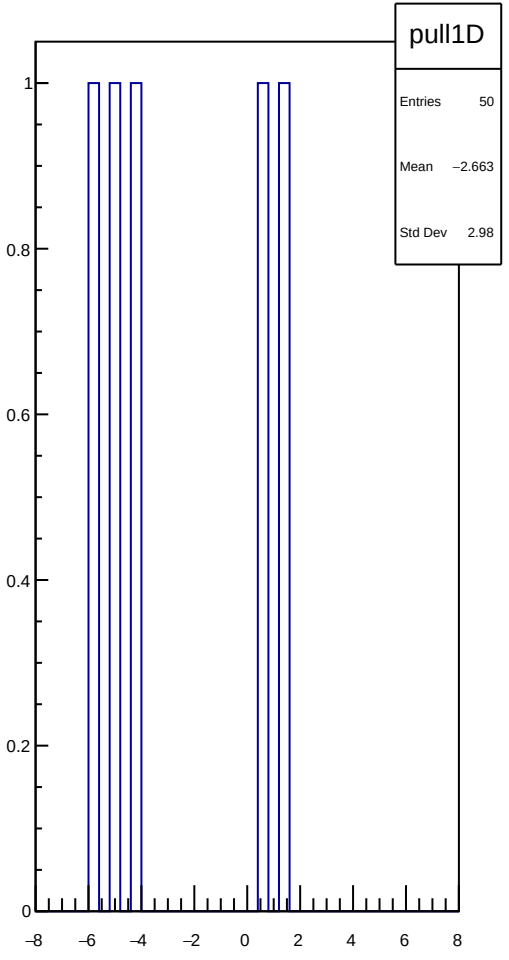

yield_bpm0l08WS_rms vs run
χ² / ndf 1.215e+05 / 49
p0 144.3 ± 0.1569
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

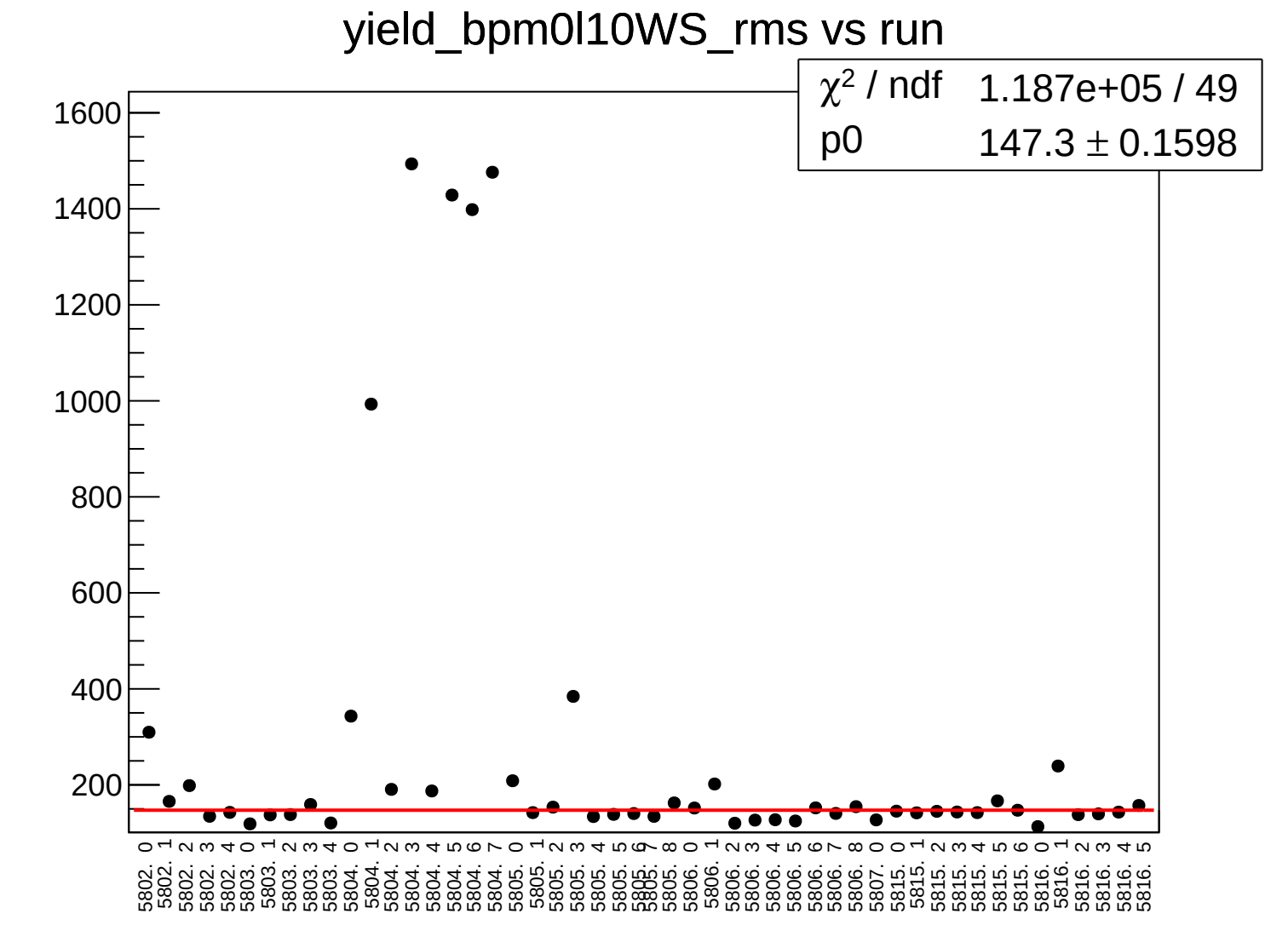

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 8.081e+06 / 49
p0 1.39e+05 ± 0.2235
139.5
139
138.5
138
137.5
137
136.5
136
pull
Entries 50
Mean −53.07
Std Dev 81.99
500
0
−500
−1000
−1500

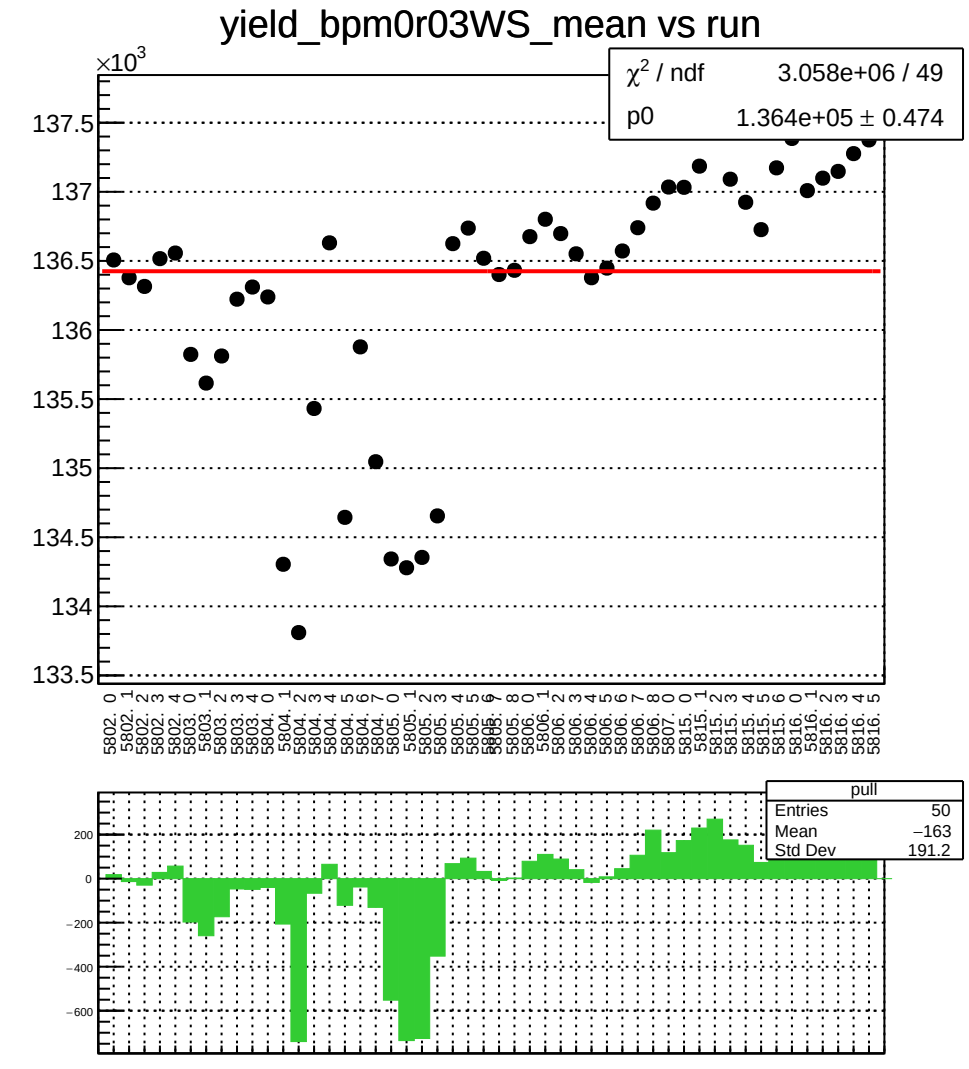

pull1D
Entries 50
Mean −1.303
Std Dev 2.186
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

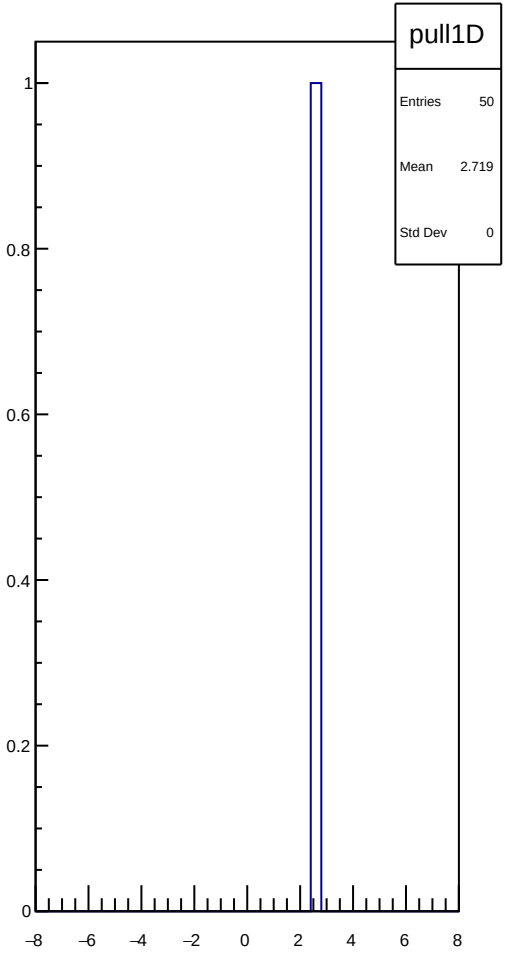

yield_bpm0l09WS_rms vs run
χ² / ndf 1.221e+05 / 49
p0 145.4 ± 0.1581
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

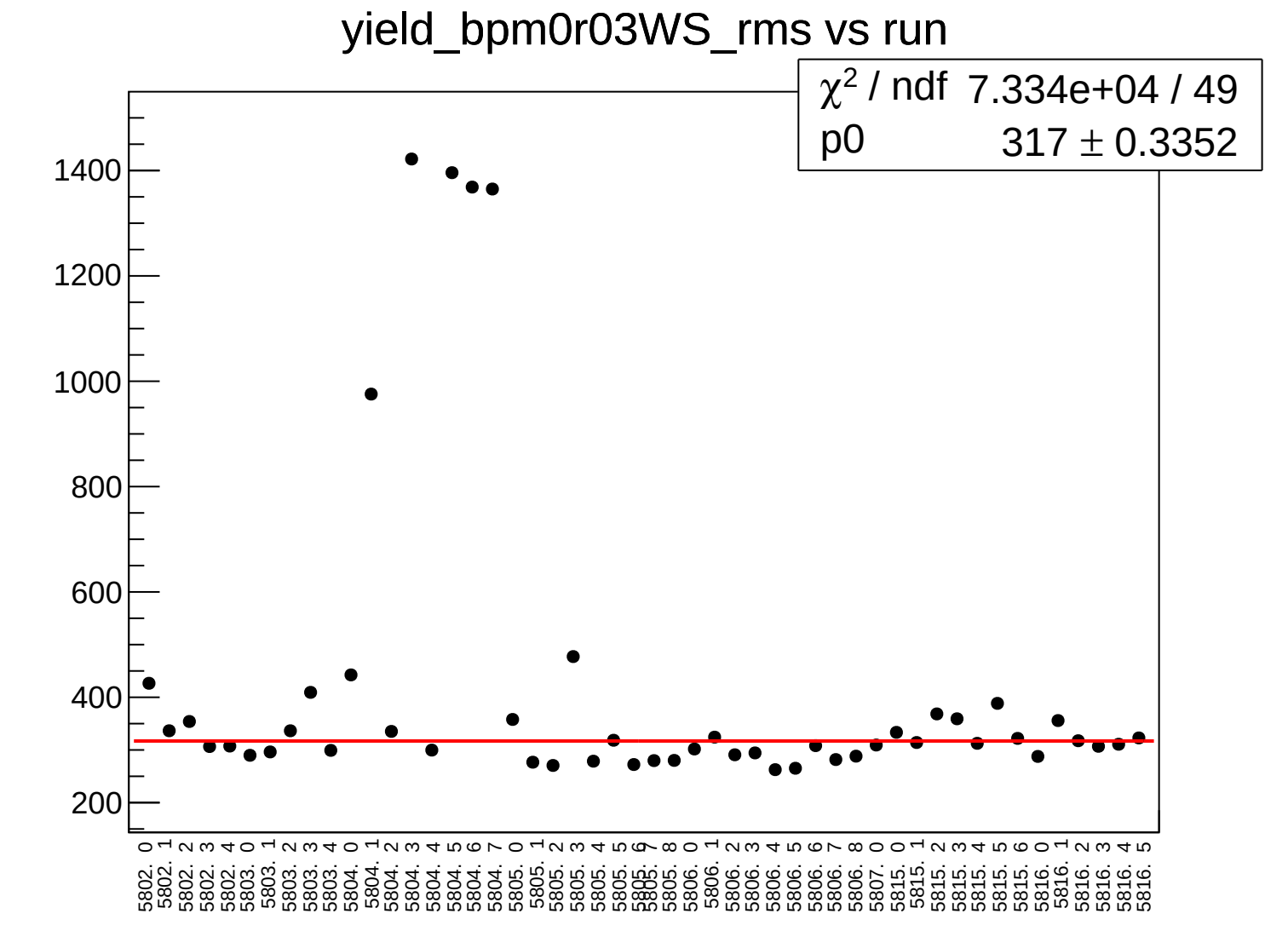

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.691e+06 / 49
p0 1.396e+05 ± 0.226
140.5
140
139.5
139
138.5
138
137.5
137
136.5
pull
Entries 50
Mean −60.7
Std Dev 89.39
500
0
−500
−1000
−1500

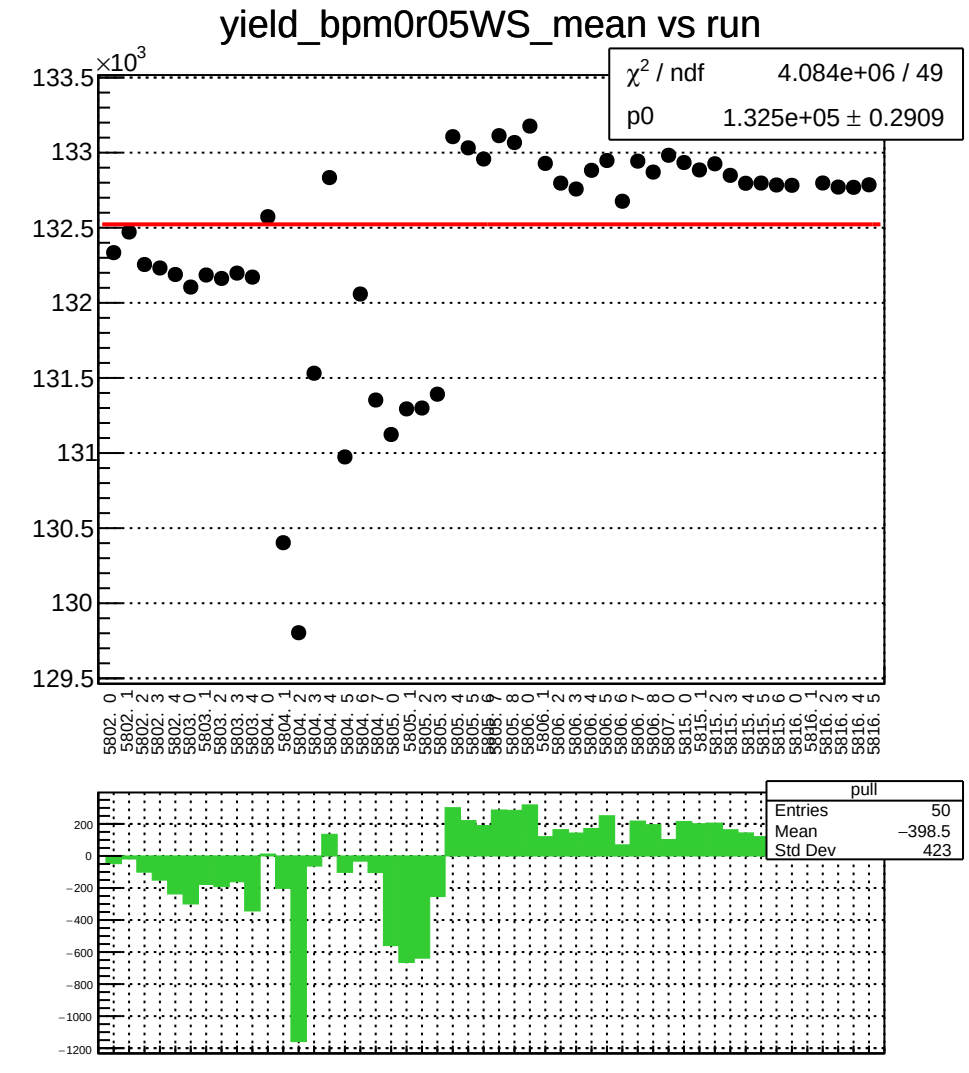

pull1D
Entries 50
Mean −2.663
Std Dev 2.98
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

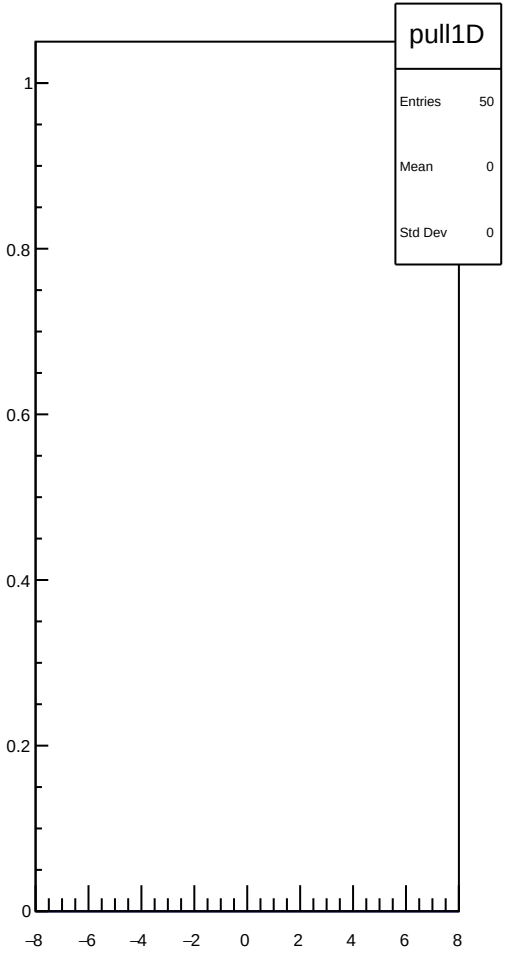

yield_bpm0l10WS_rms vs run
χ² / ndf 1.187e+05 / 49
p0 147.3 ± 0.1598
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

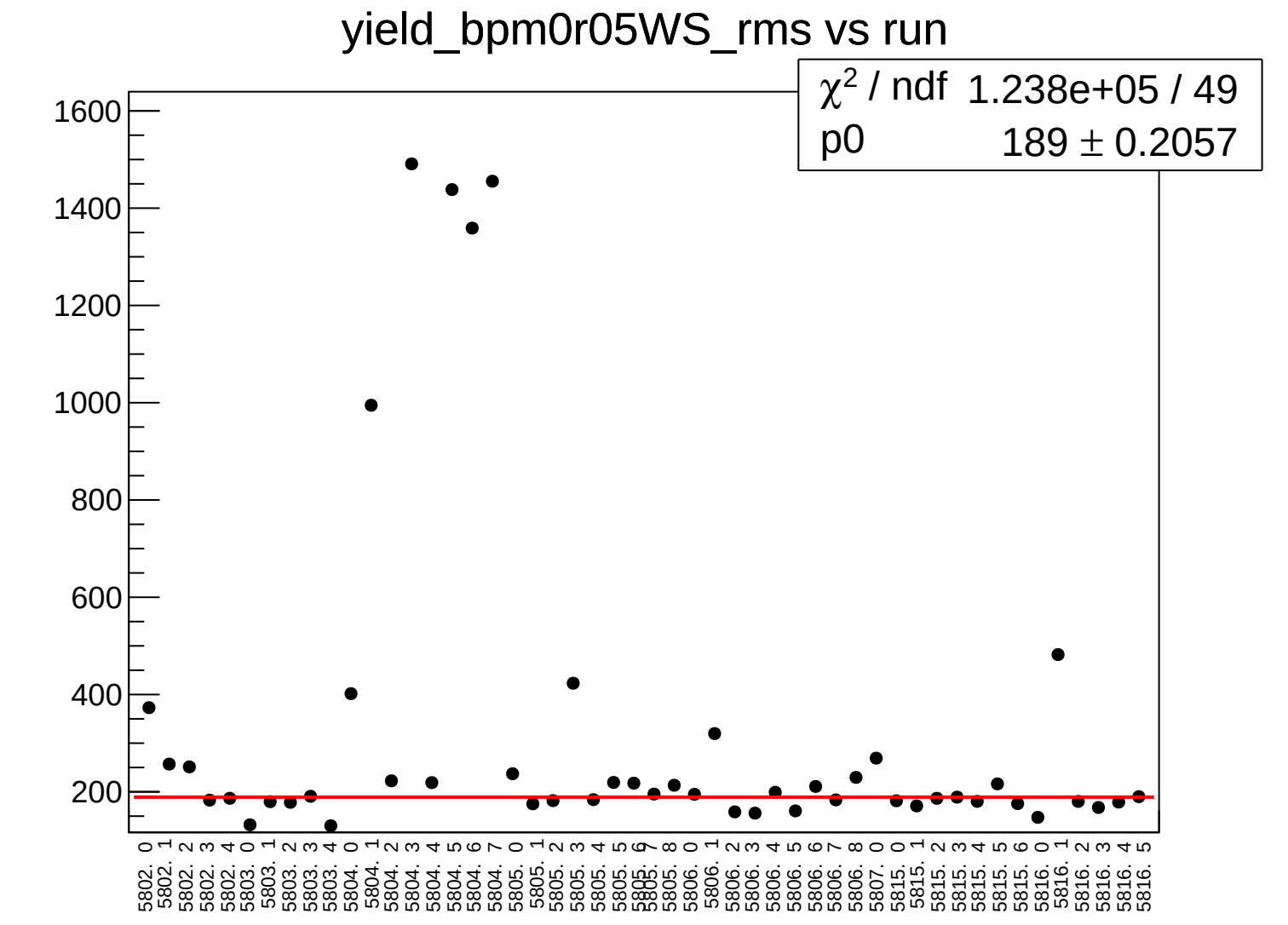

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.058e+06 / 49
p0 1.364e+05 ± 0.474
137.5
137
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 50
Mean −163
Std Dev 191.2
200
0
−200
−400
−600

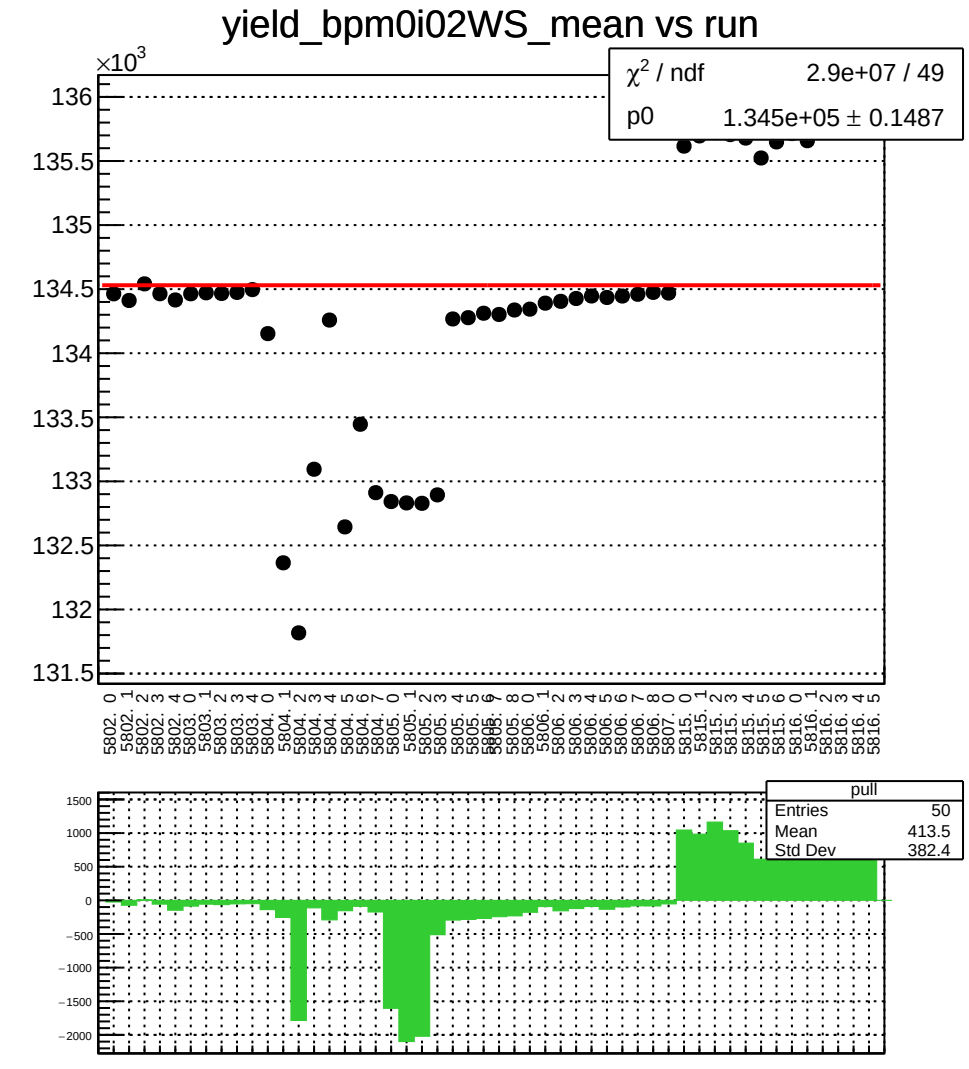

pull1D
Entries 50
Mean 2.719
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

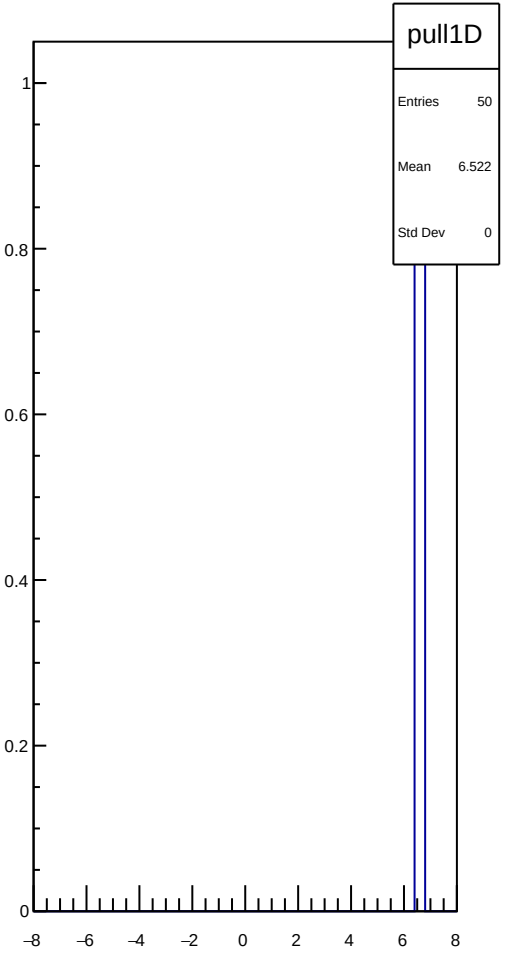

yield_bpm0r03WS_rms vs run
χ² / ndf 7.334e+04 / 49
p0 317 ± 0.3352
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

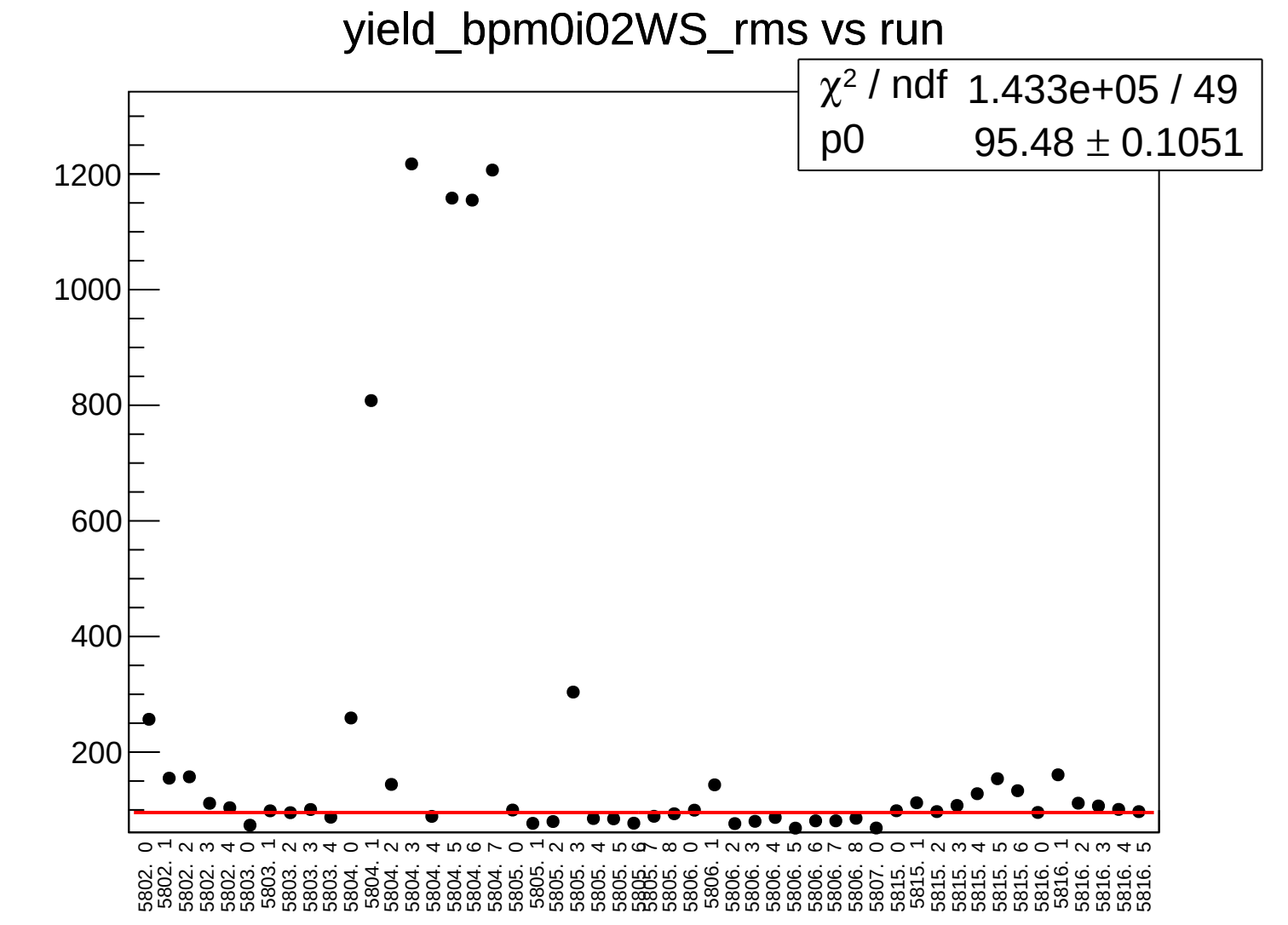

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 4.084e+06 / 49
p0 1.325e+05 ± 0.2909
133.5
133
132.5
132
131.5
131
130.5
130
129.5
pull
Entries 50
Mean −398.5
Std Dev 423
200
0
−200
−400
−600
−800
−1000
−1200

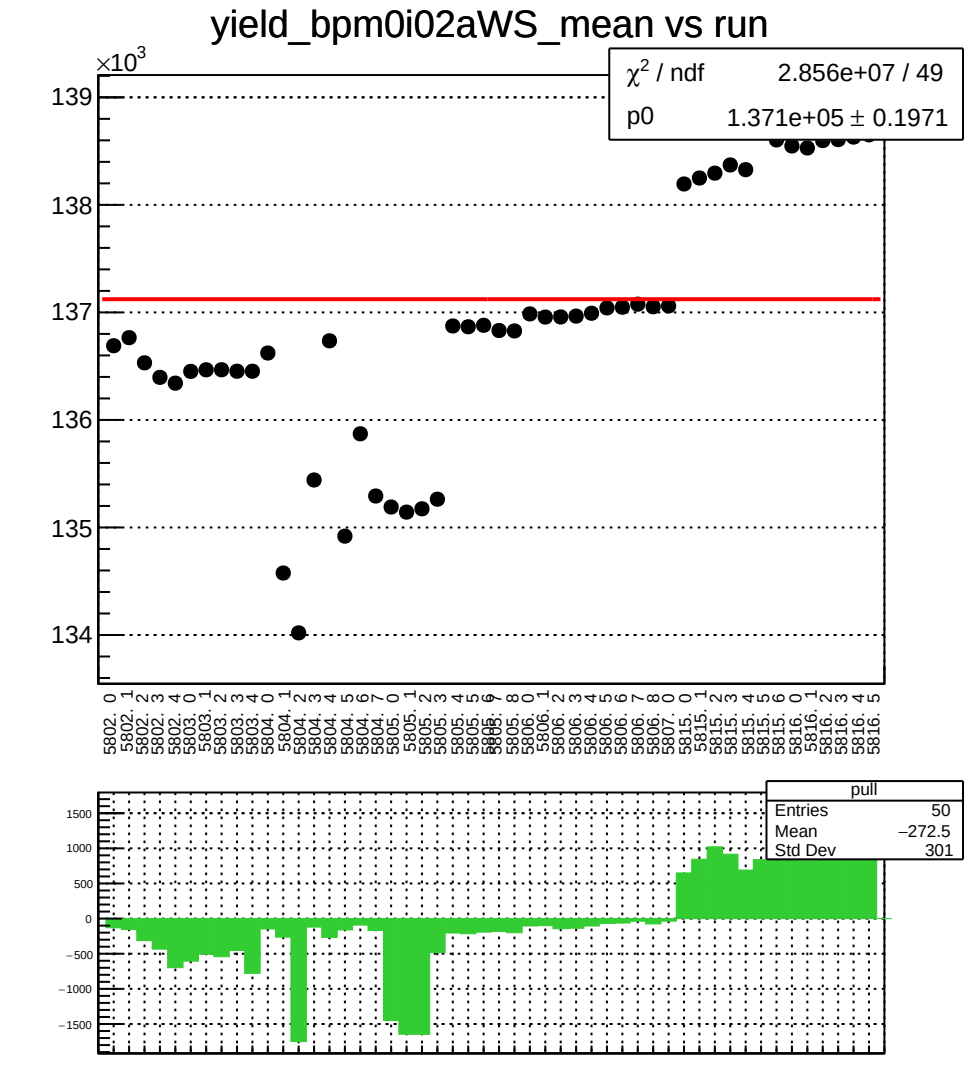

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

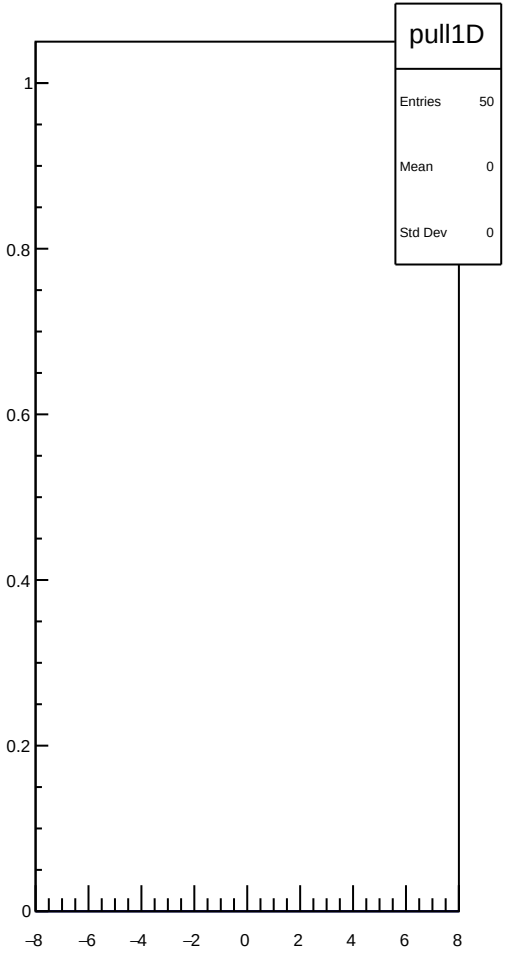

yield_bpm0r05WS_rms vs run
χ² / ndf 1.238e+05 / 49
p0 189 ± 0.2057
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

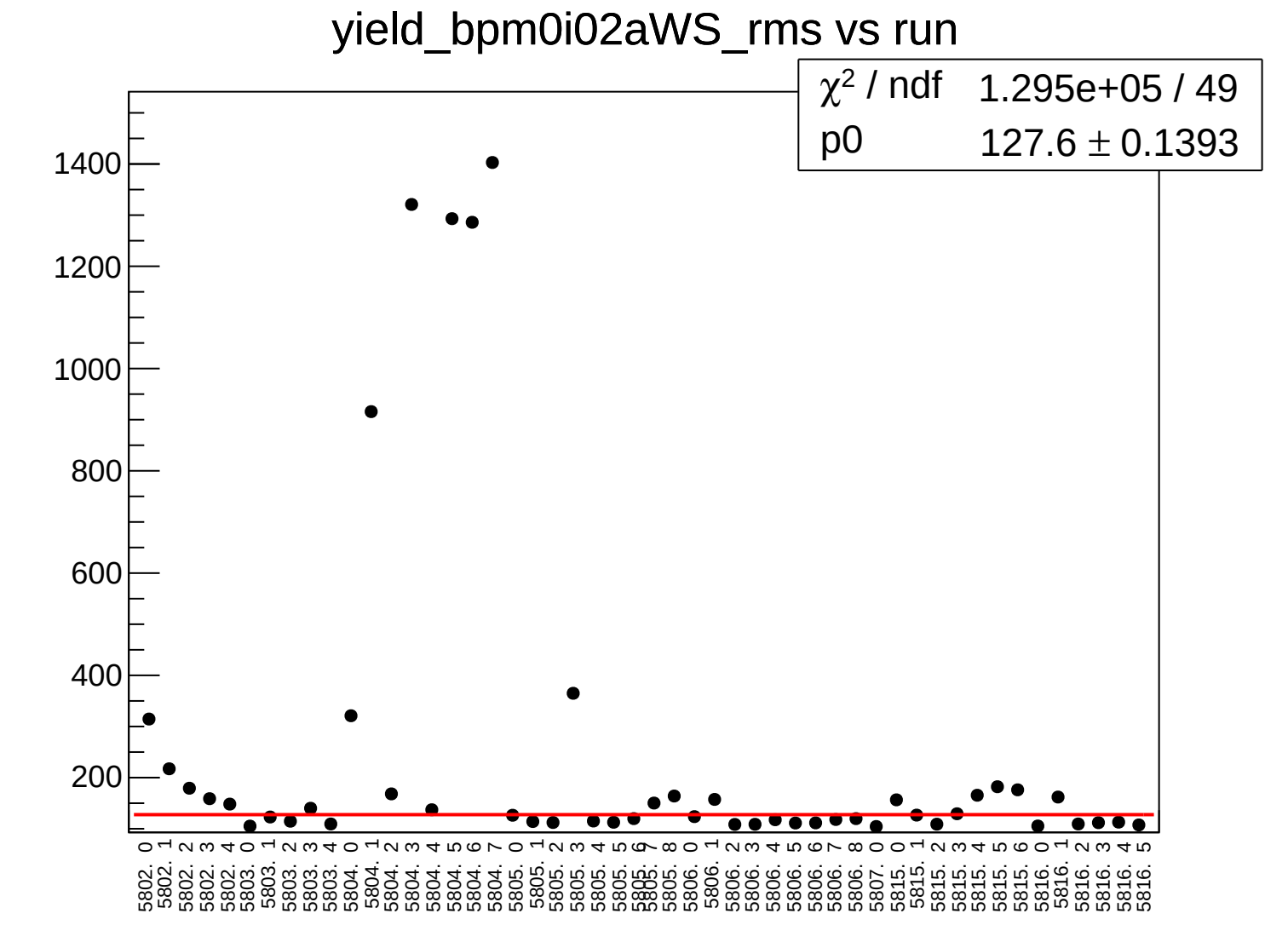

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.9e+07 / 49
p0 1.345e+05 ± 0.1487
136
135.5
135
134.5
134
133.5
133
132.5
132
131.5
pull
Entries 50
Mean 413.5
Std Dev 382.4
1500
1000
500
0
−500
−1000
−1500
−2000

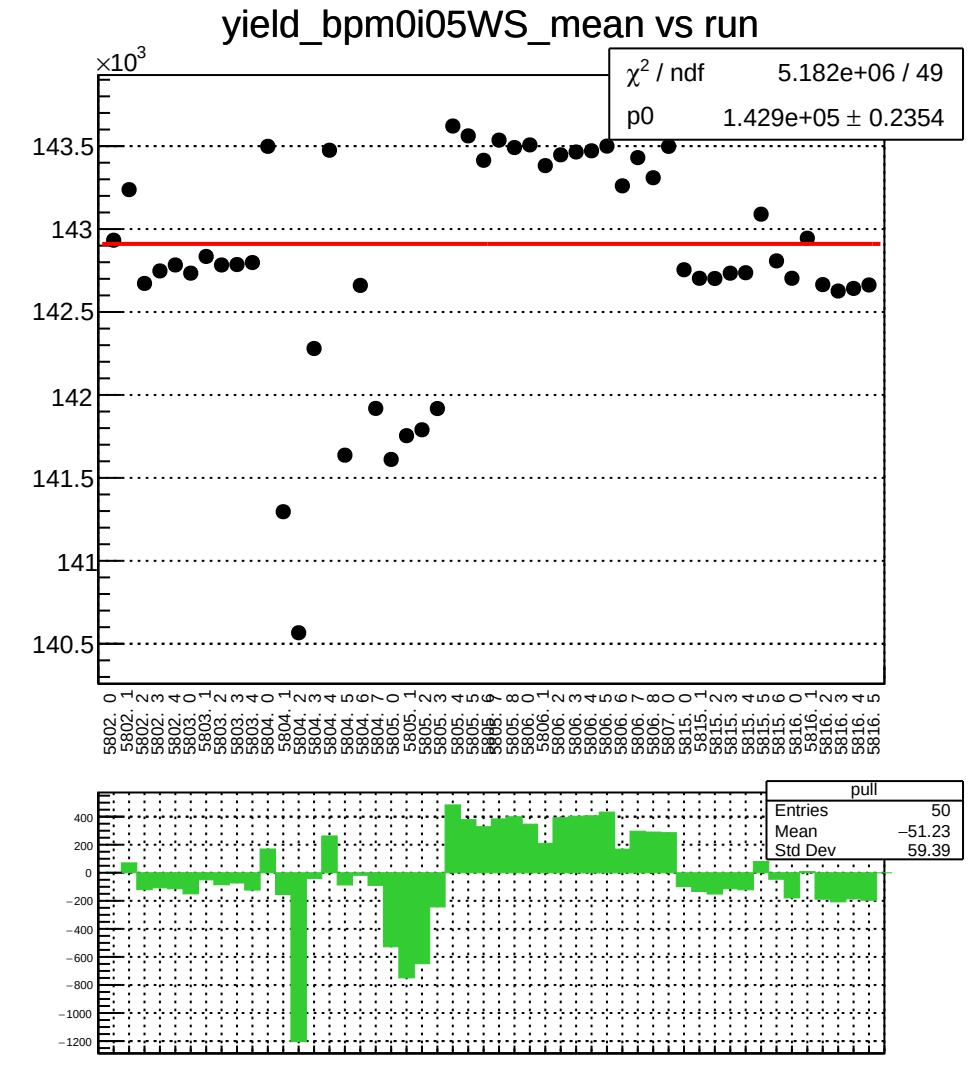

pull1D
Entries 50
Mean 6.522
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

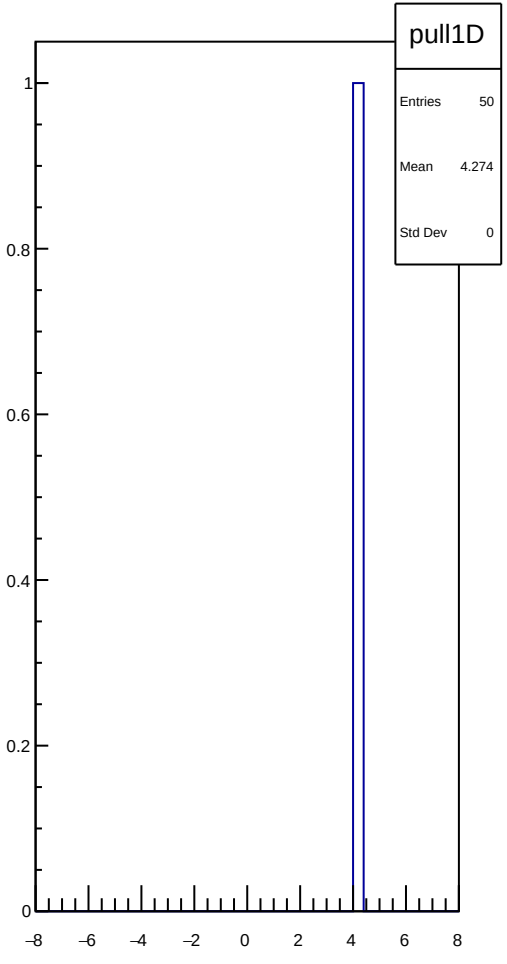

yield_bpm0i02WS_rms vs run
χ² / ndf 1.433e+05 / 49
p0 95.48 ± 0.1051
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

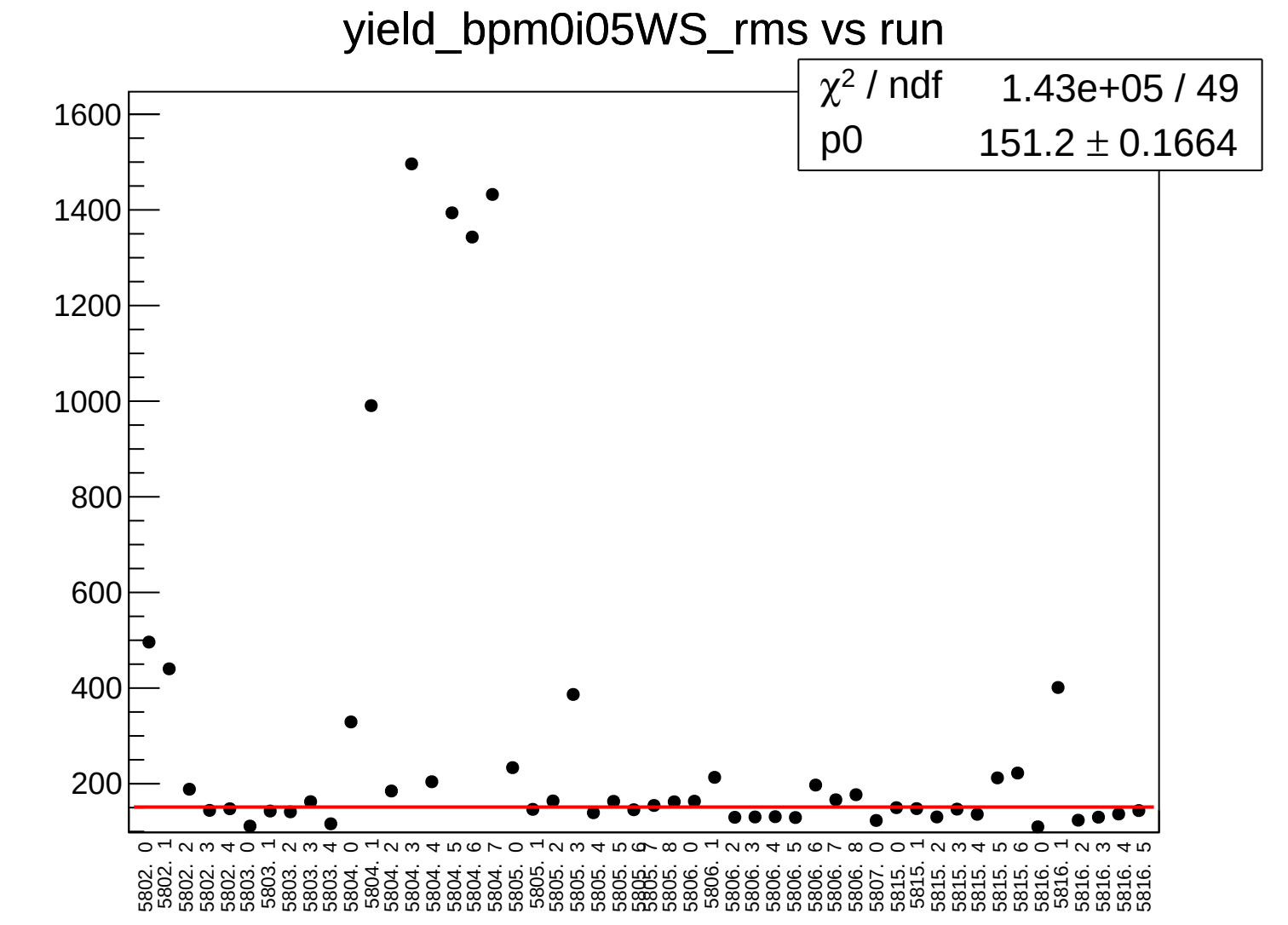

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.856e+07 / 49
p0 1.371e+05 ± 0.1971
139
138
137
136
135
134
pull
Entries 50
Mean −272.5
Std Dev 301
1500
1000
500
0
−500
−1000
−1500

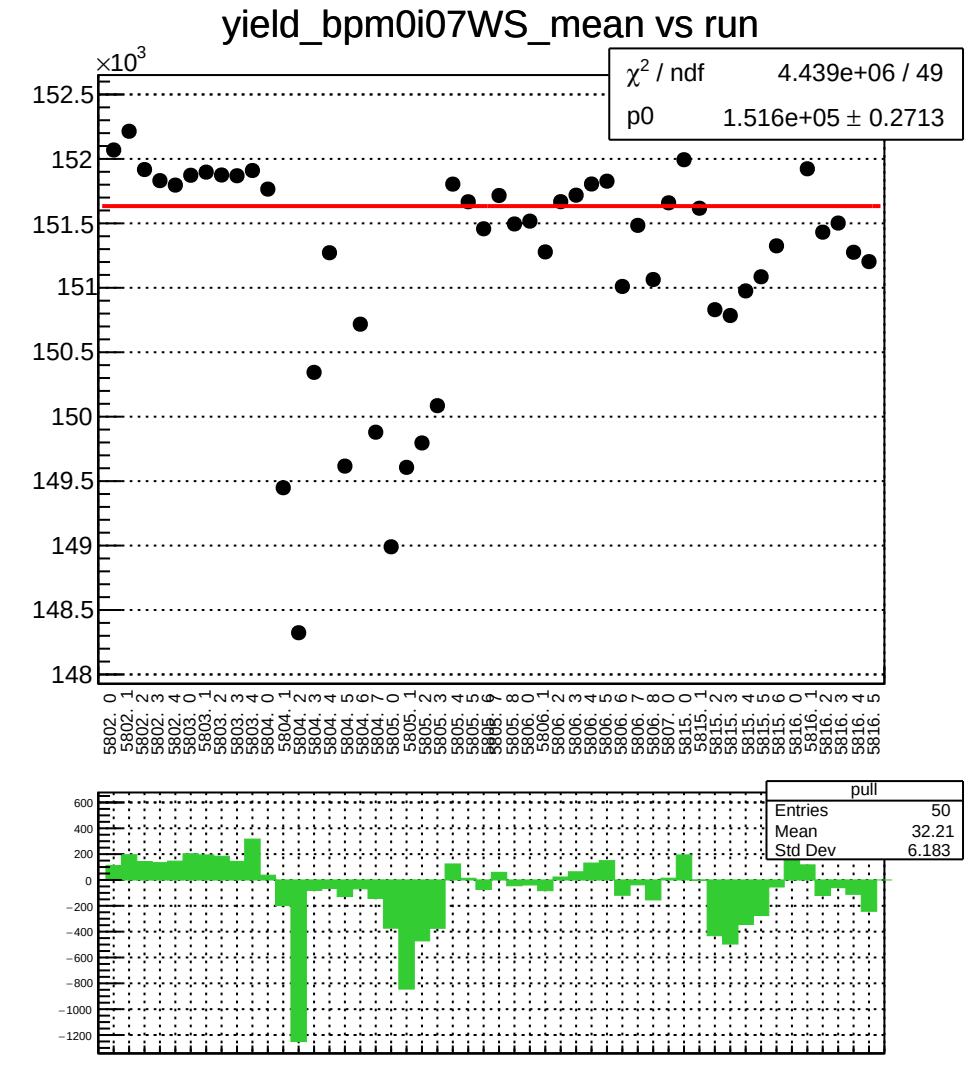

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

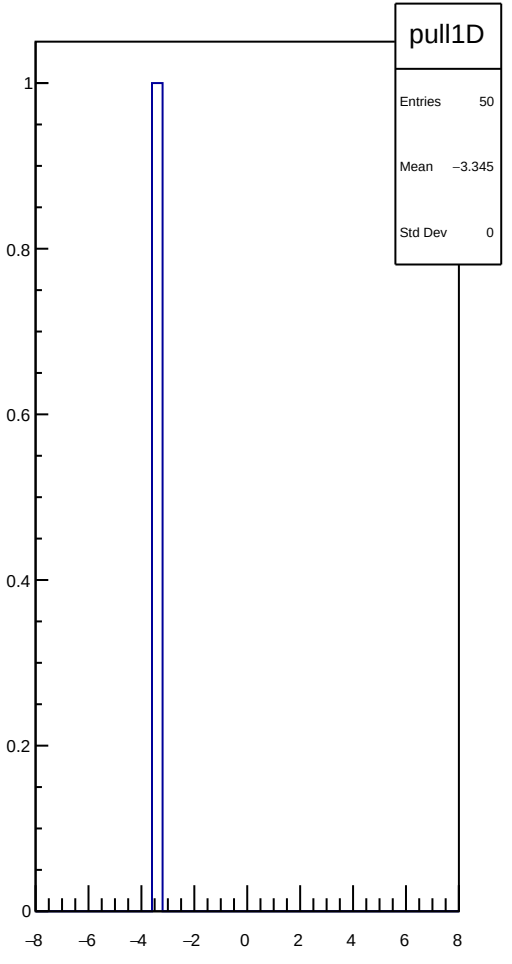

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.295e+05 / 49
p0 127.6 ± 0.1393
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

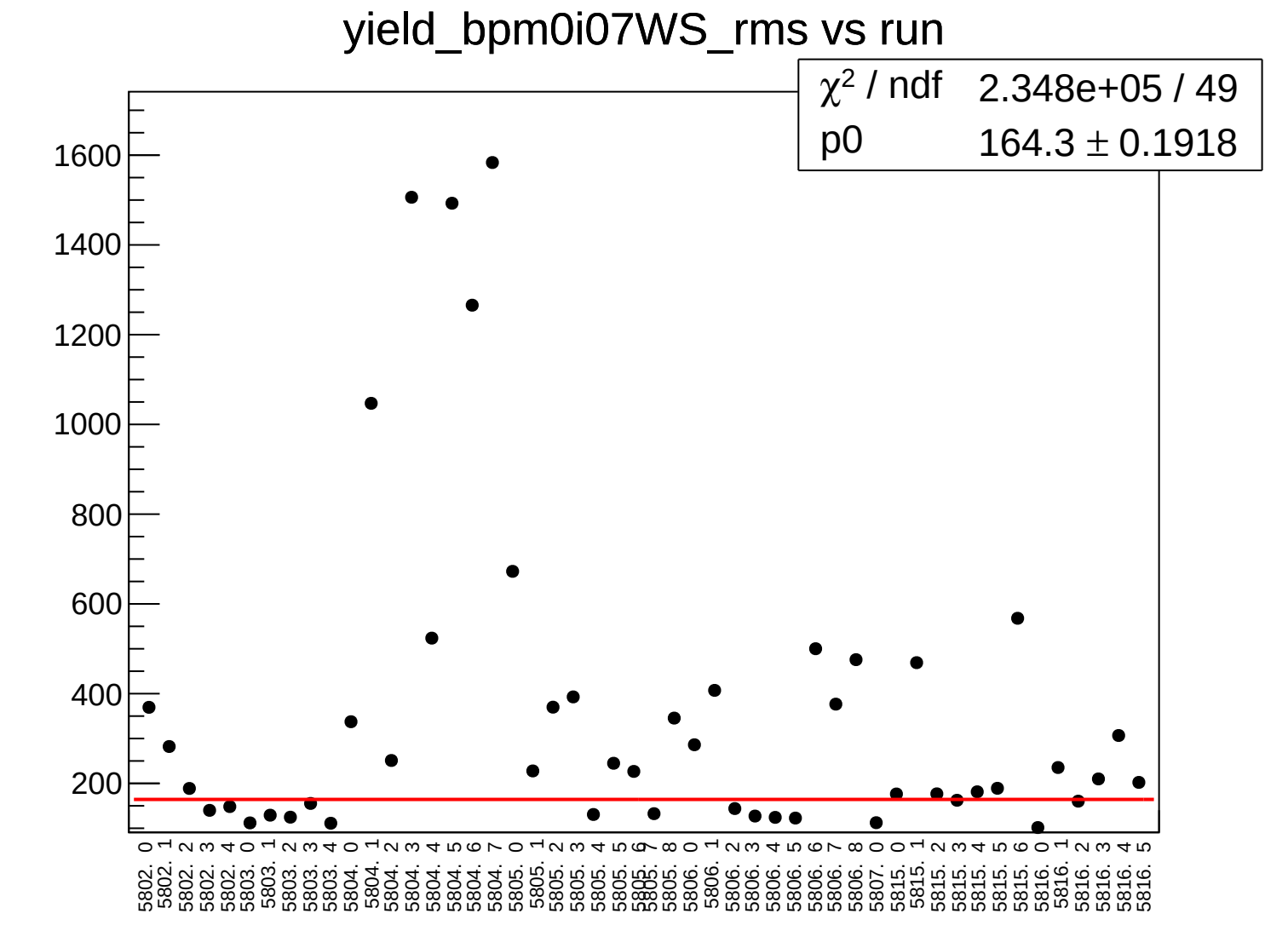

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 5.182e+06 / 49
p0 1.429e+05 ± 0.2354
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 50
Mean −51.23
Std Dev 59.39
400
200
0
−200
−400
−600
−800
−1000
−1200

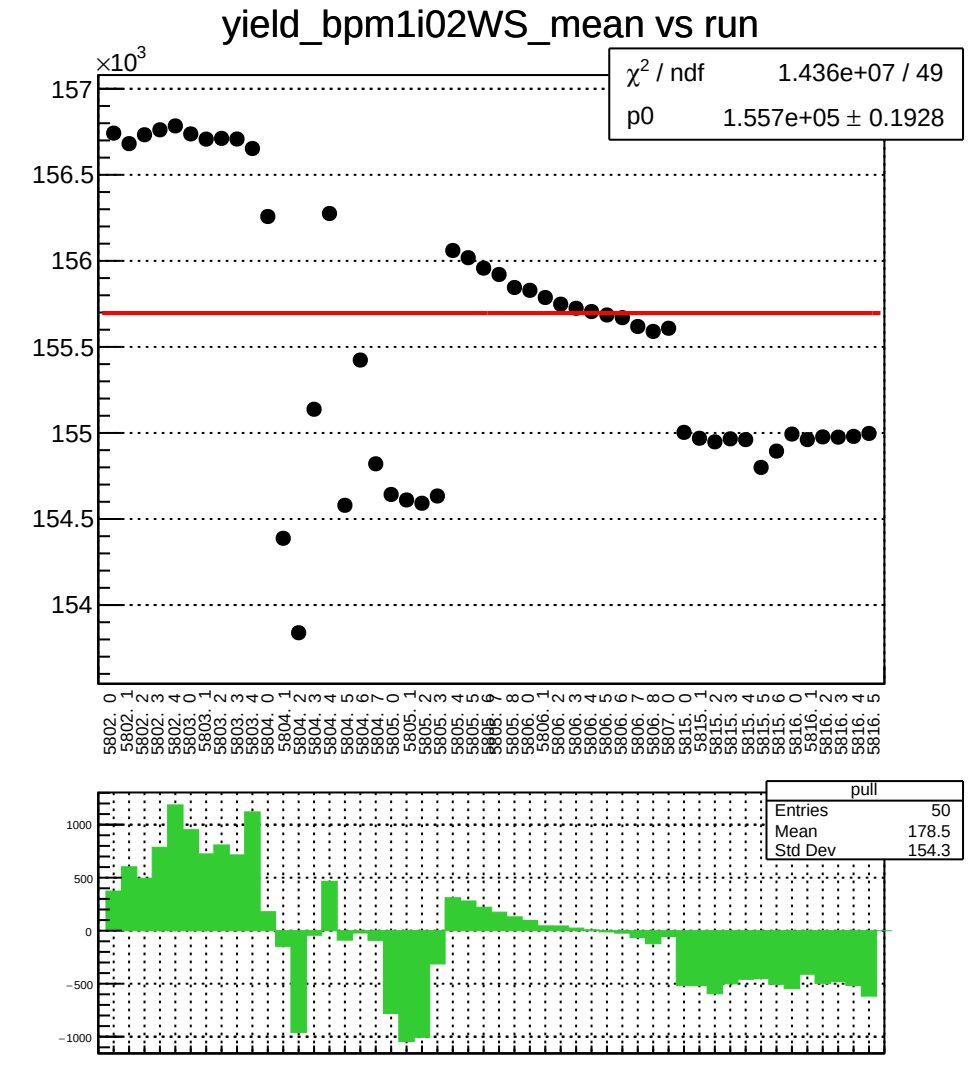

pull1D
Entries 50
Mean 4.274
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

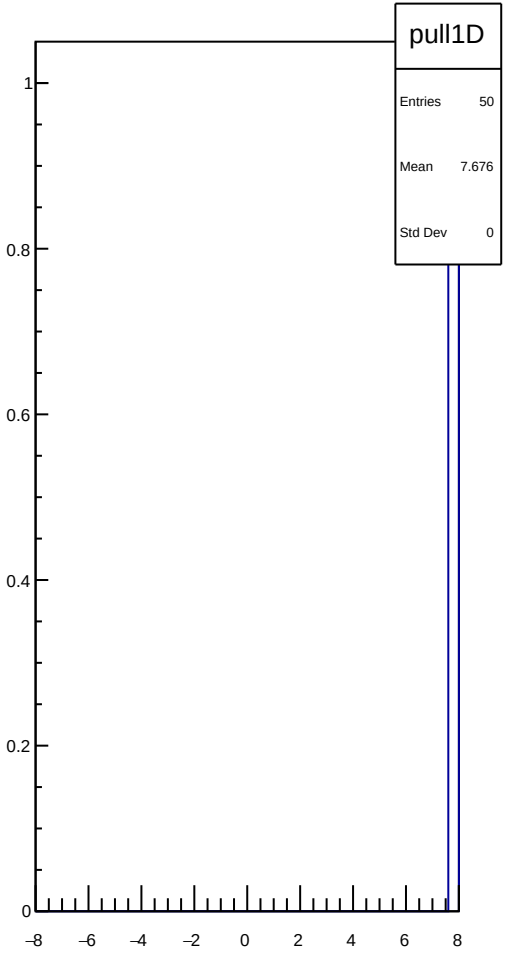

yield_bpm0i05WS_rms vs run
χ² / ndf 1.43e+05 / 49
p0 151.2 ± 0.1664
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

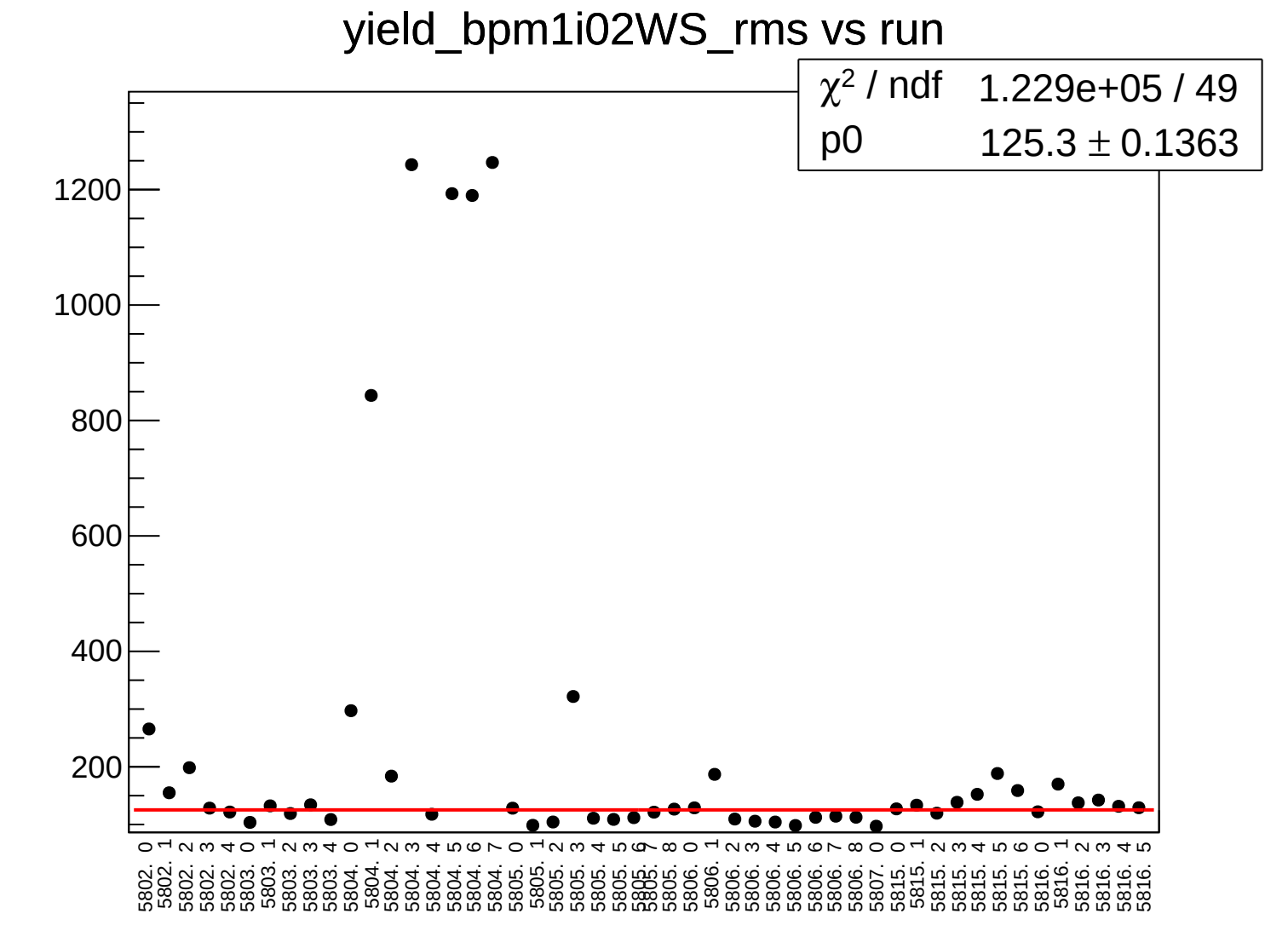

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.439e+06 / 49
p0 1.516e+05 ± 0.2713
152.5
152
151.5
151
150.5
150
149.5
149
148.5
148
pull
Entries 50
Mean 32.21
Std Dev 6.183
600
400
200
0
−200
−400
−600
−800
−1000
−1200

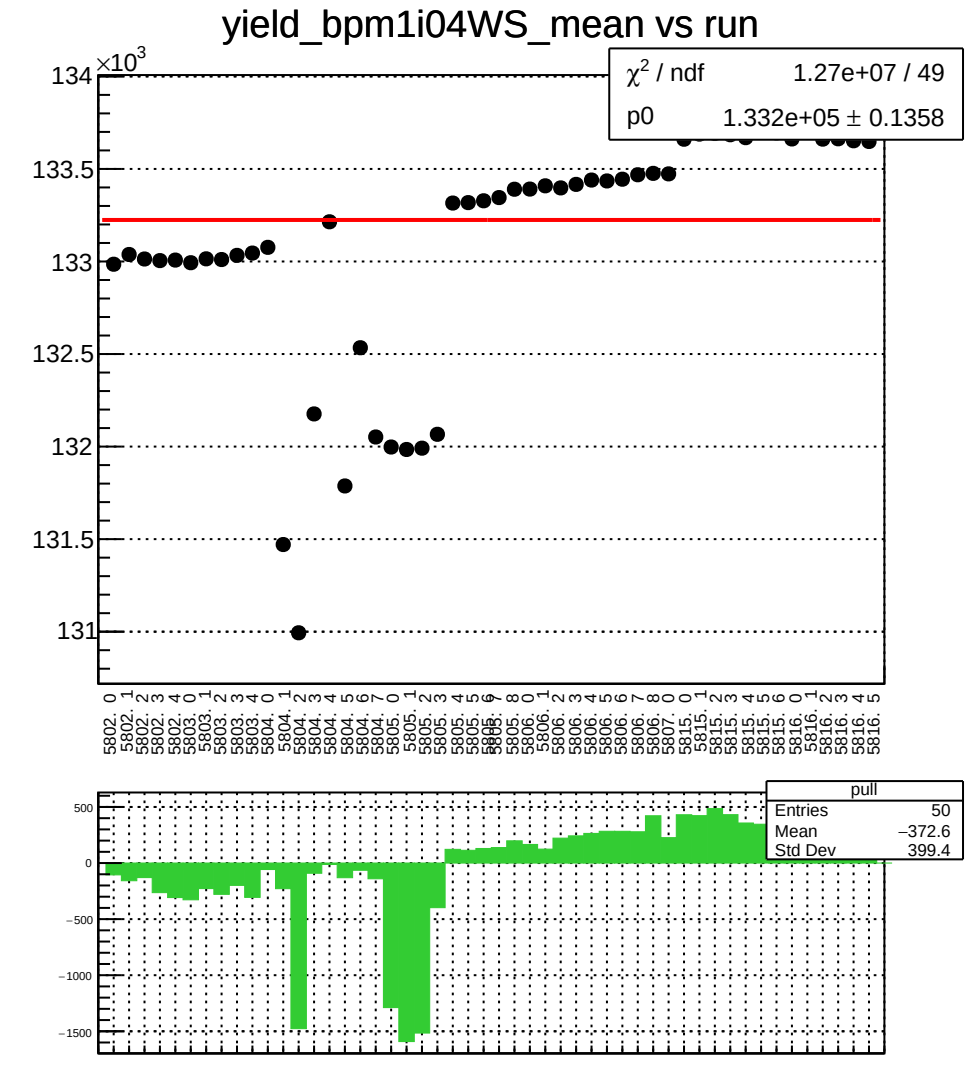

pull1D
Entries 50
Mean −3.345
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

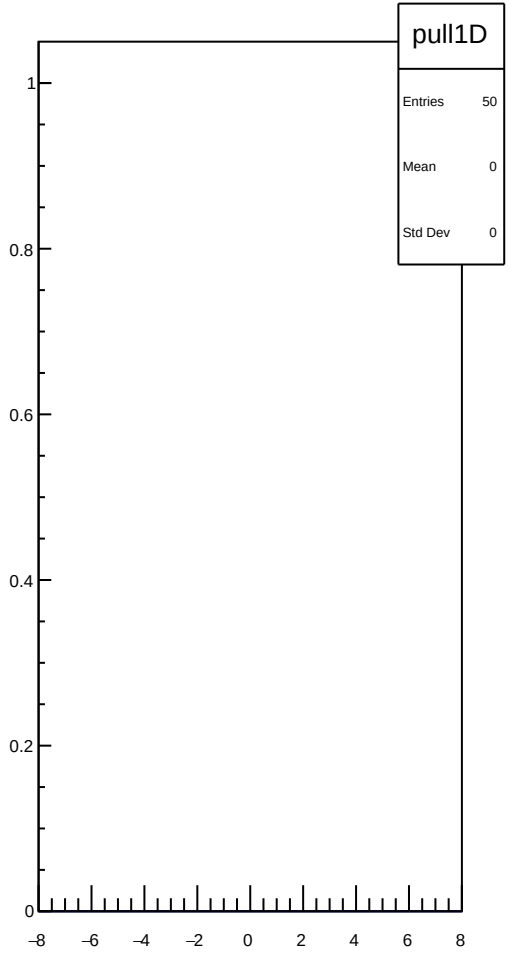

yield_bpm0i07WS_rms vs run
χ² / ndf 2.348e+05 / 49
p0 164.3 ± 0.1918
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

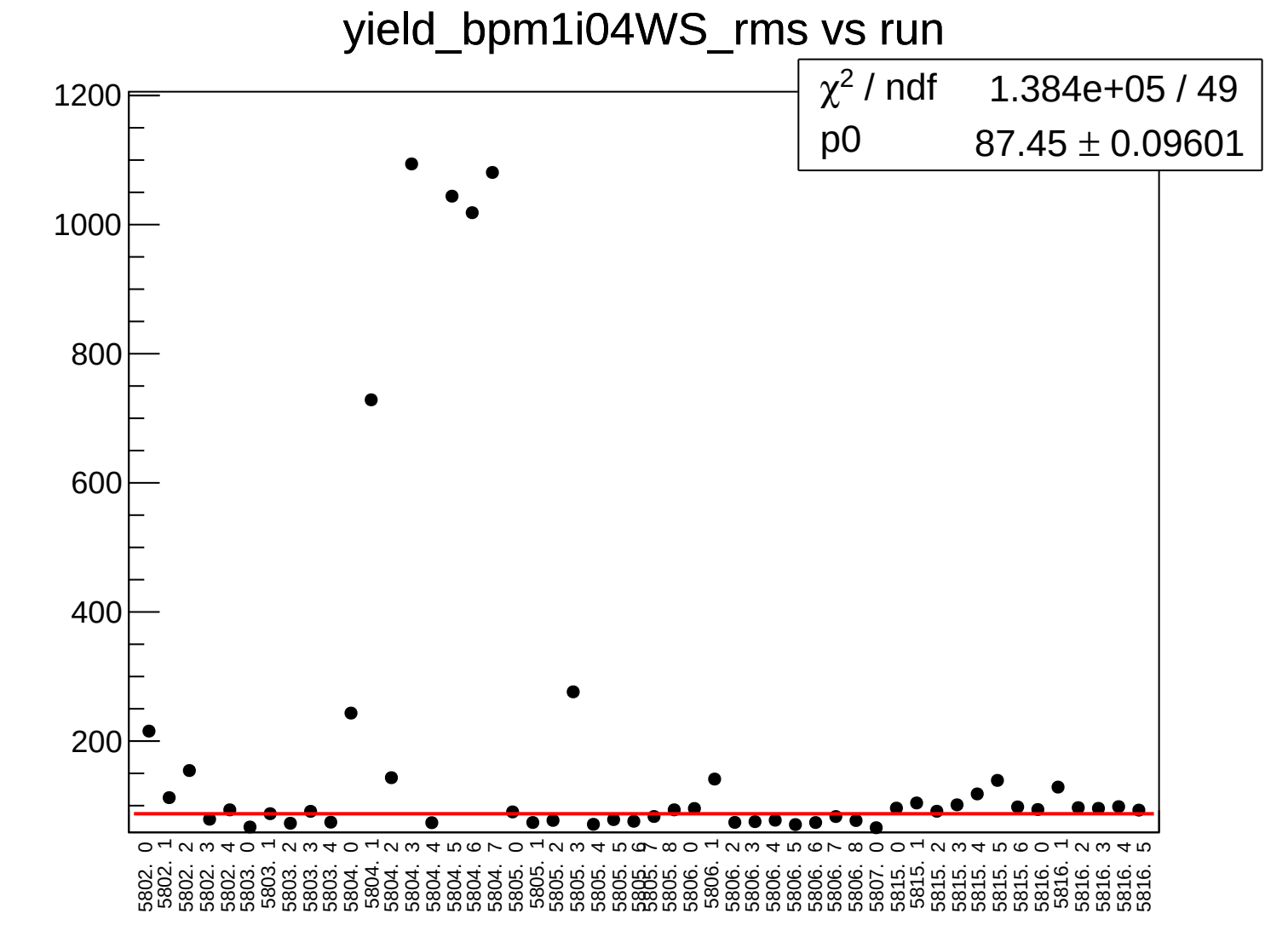

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.436e+07 / 49
p0 1.557e+05 ± 0.1928
157
156.5
156
155.5
155
154.5
154
pull
Entries 50
Mean 178.5
Std Dev 154.3
1000
500
0
−500
−1000

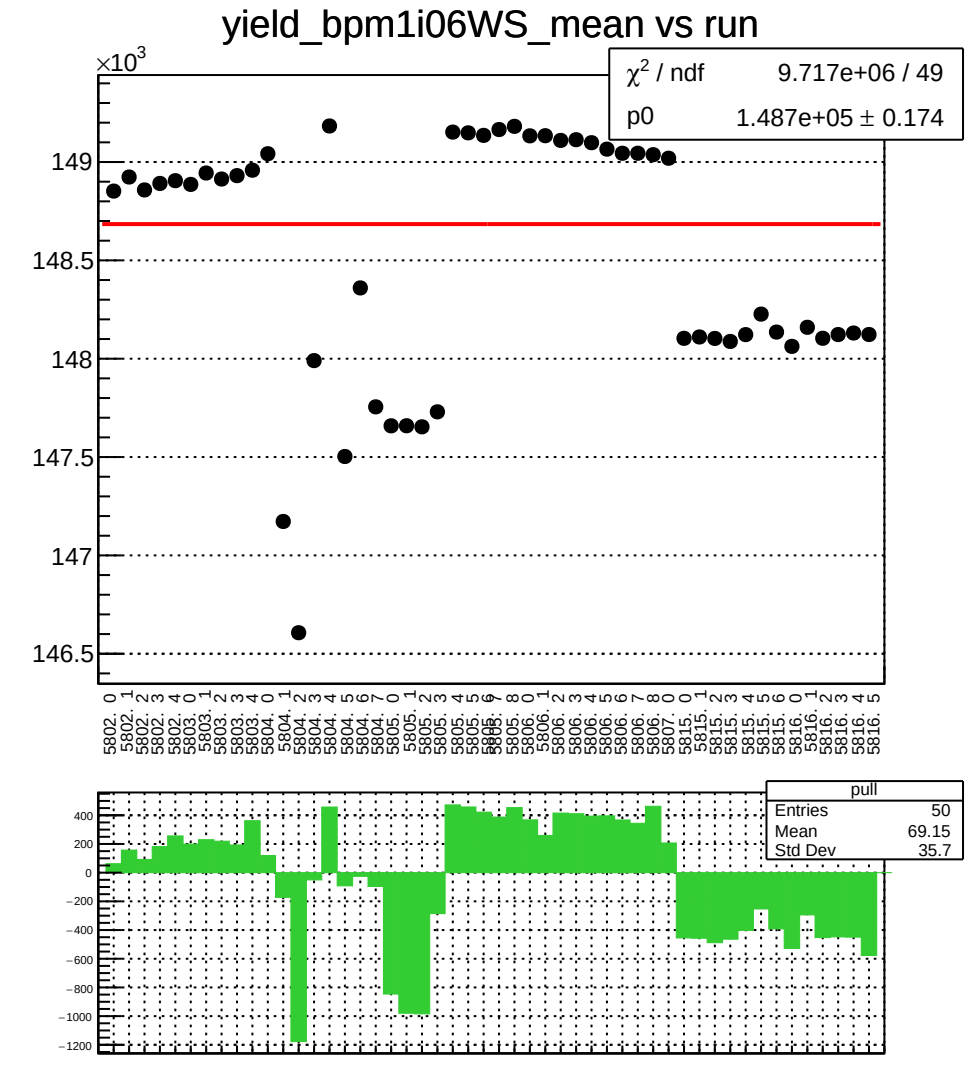

pull1D
Entries 50
Mean 7.676
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

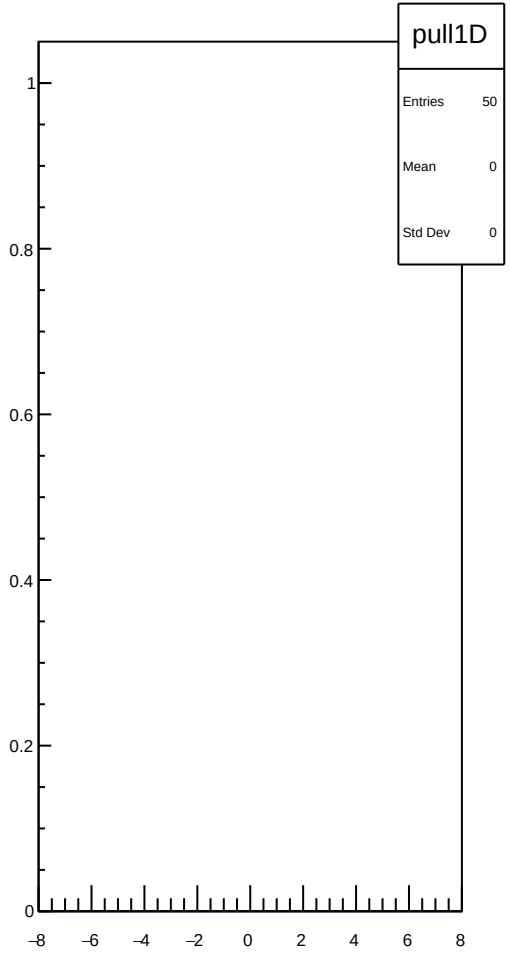

yield_bpm1i02WS_rms vs run
χ² / ndf 1.229e+05 / 49
p0 125.3 ± 0.1363
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

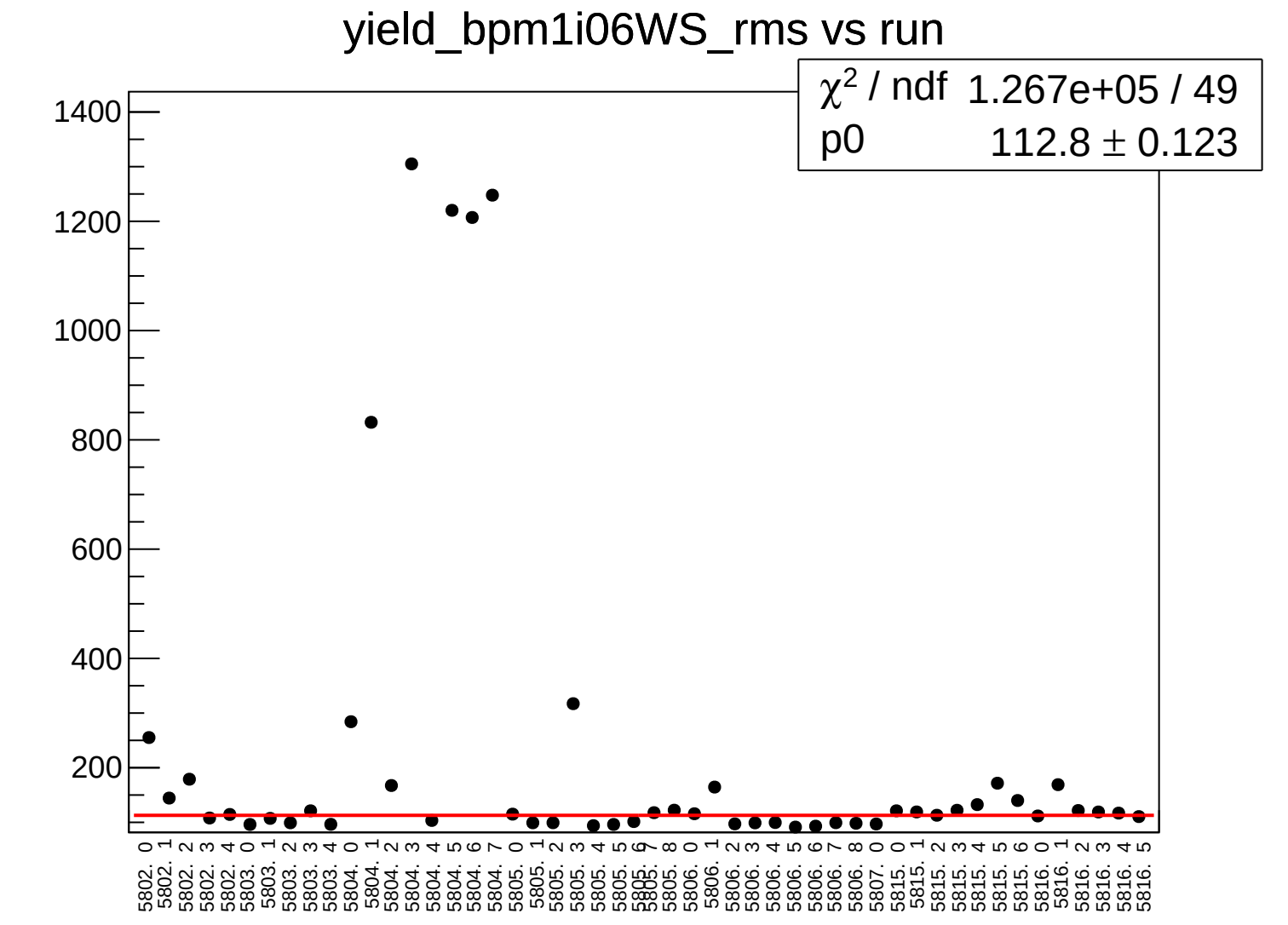

yield_bpm1i04WS_mean vs run
χ² / ndf 1.27e+07 / 49
p0 1.332e+05 ± 0.1358
×10³
134
133.5
133
132.5
132
131.5
131
pull
Entries 50
Mean −372.6
Std Dev 399.4
500
0
−500
−1000
−1500

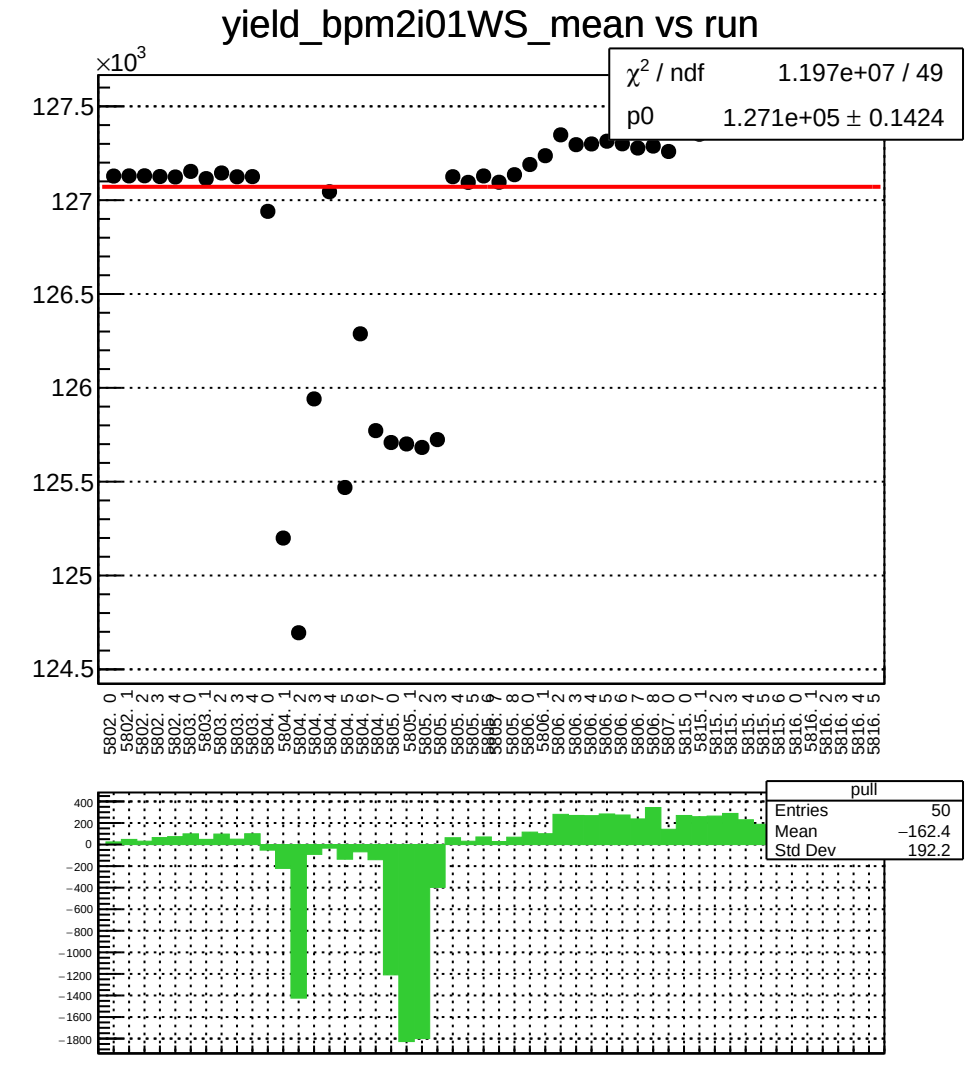

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

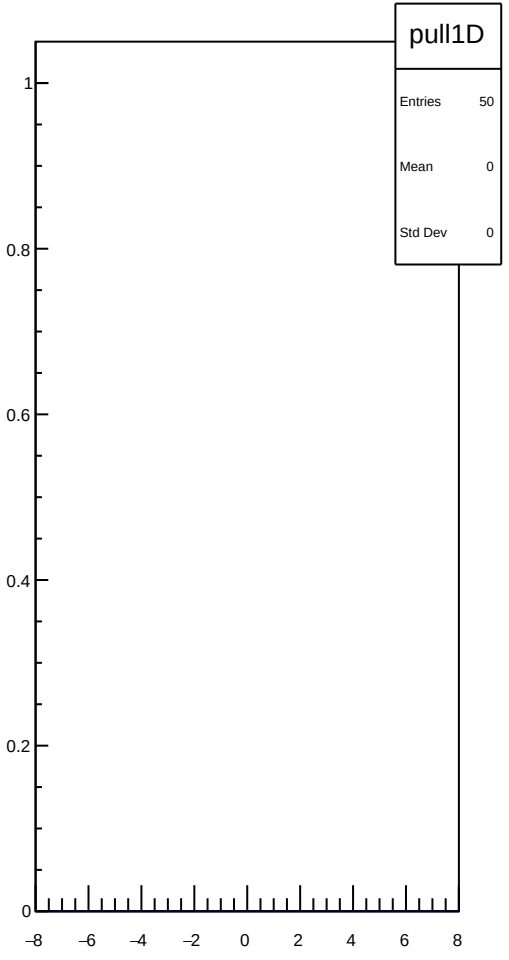

yield_bpm1i04WS_rms vs run
χ² / ndf 1.384e+05 / 49
p0 87.45 ± 0.09601
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

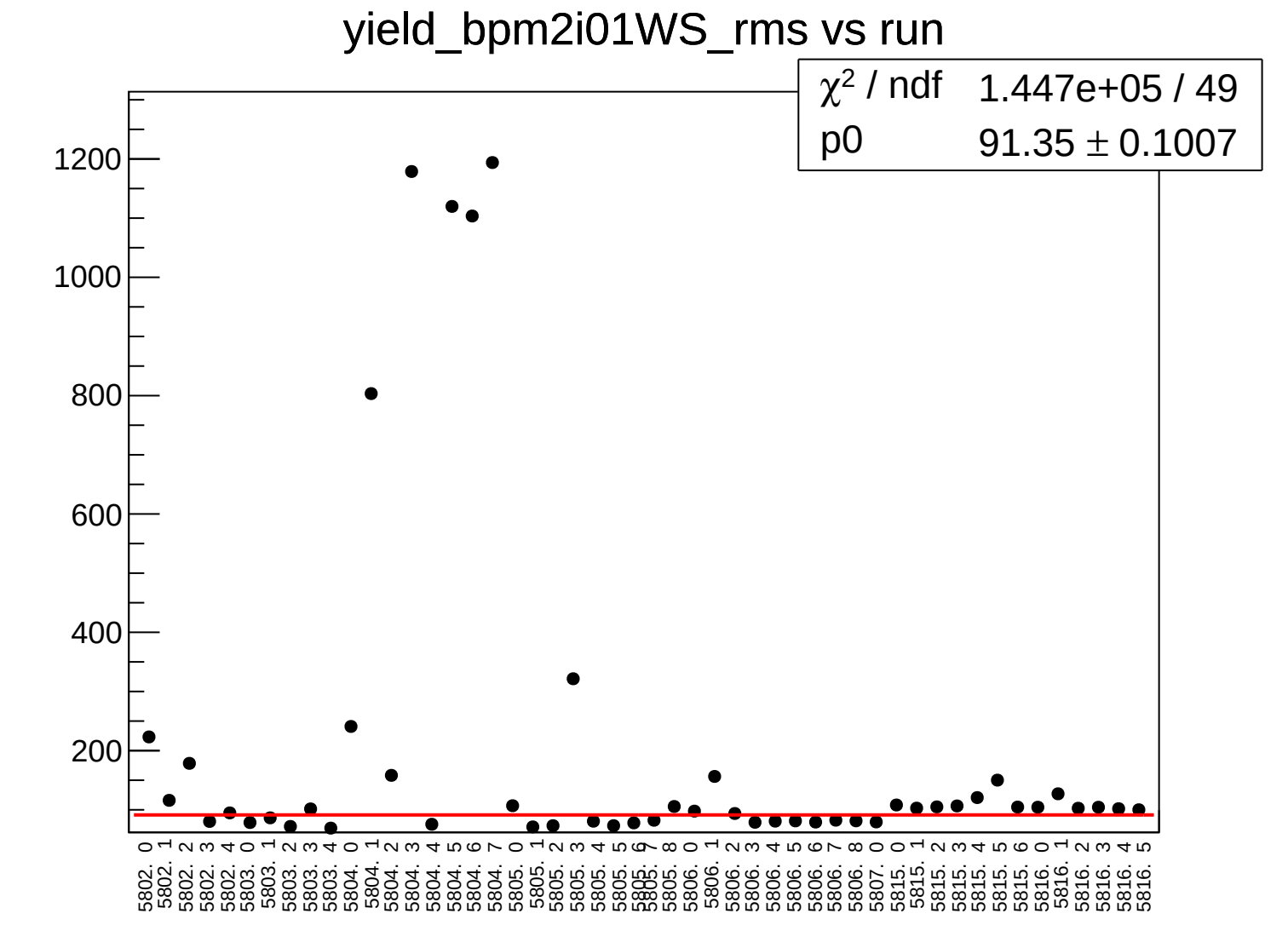

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 9.717e+06 / 49
p0 1.487e+05 ± 0.174
149
148.5
148
147.5
147
146.5
pull
Entries 50
Mean 69.15
Std Dev 35.7
400
200
0
−200
−400
−600
−800
−1000
−1200

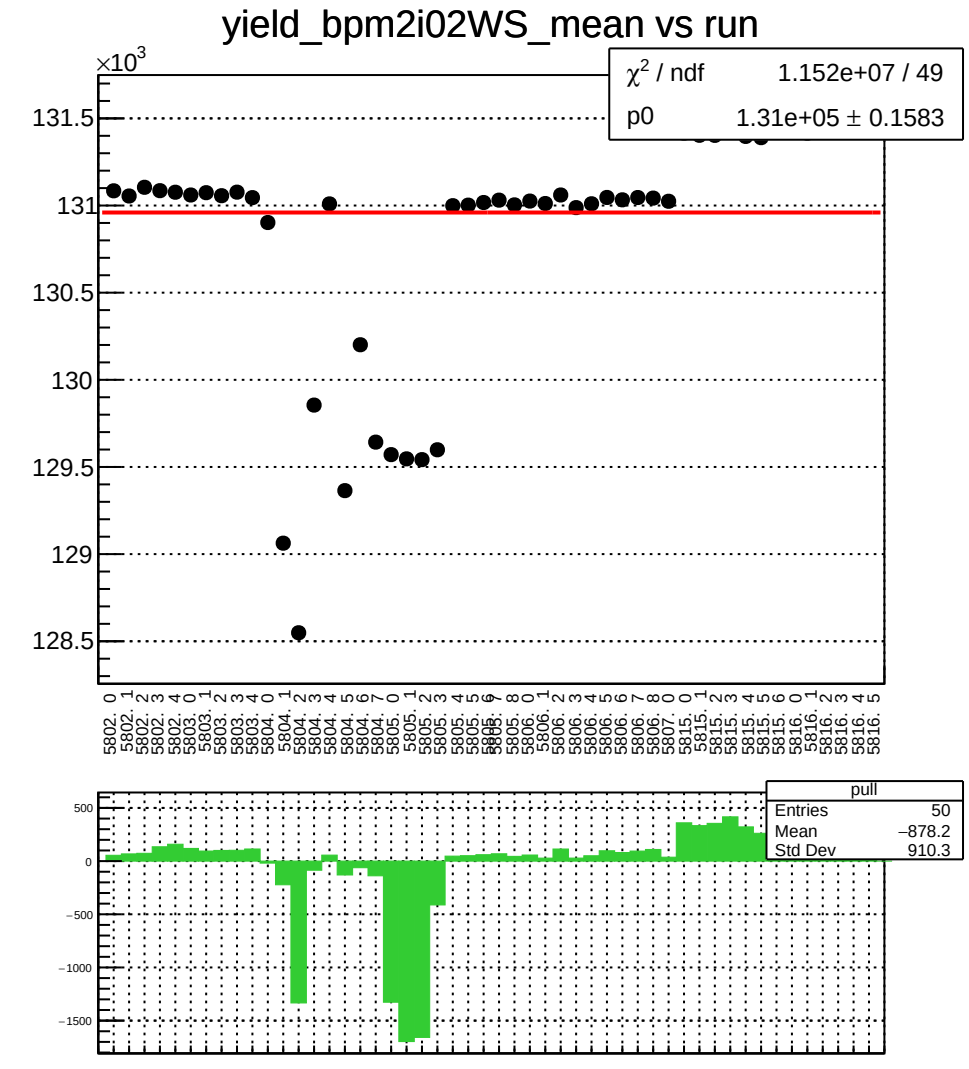

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

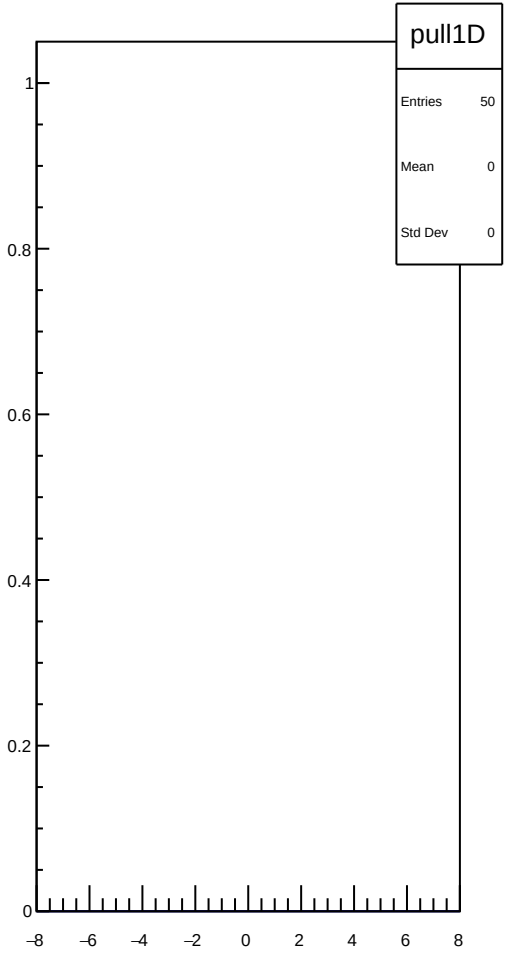

yield_bpm1i06WS_rms vs run
χ² / ndf 1.267e+05 / 49
p0 112.8 ± 0.123
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

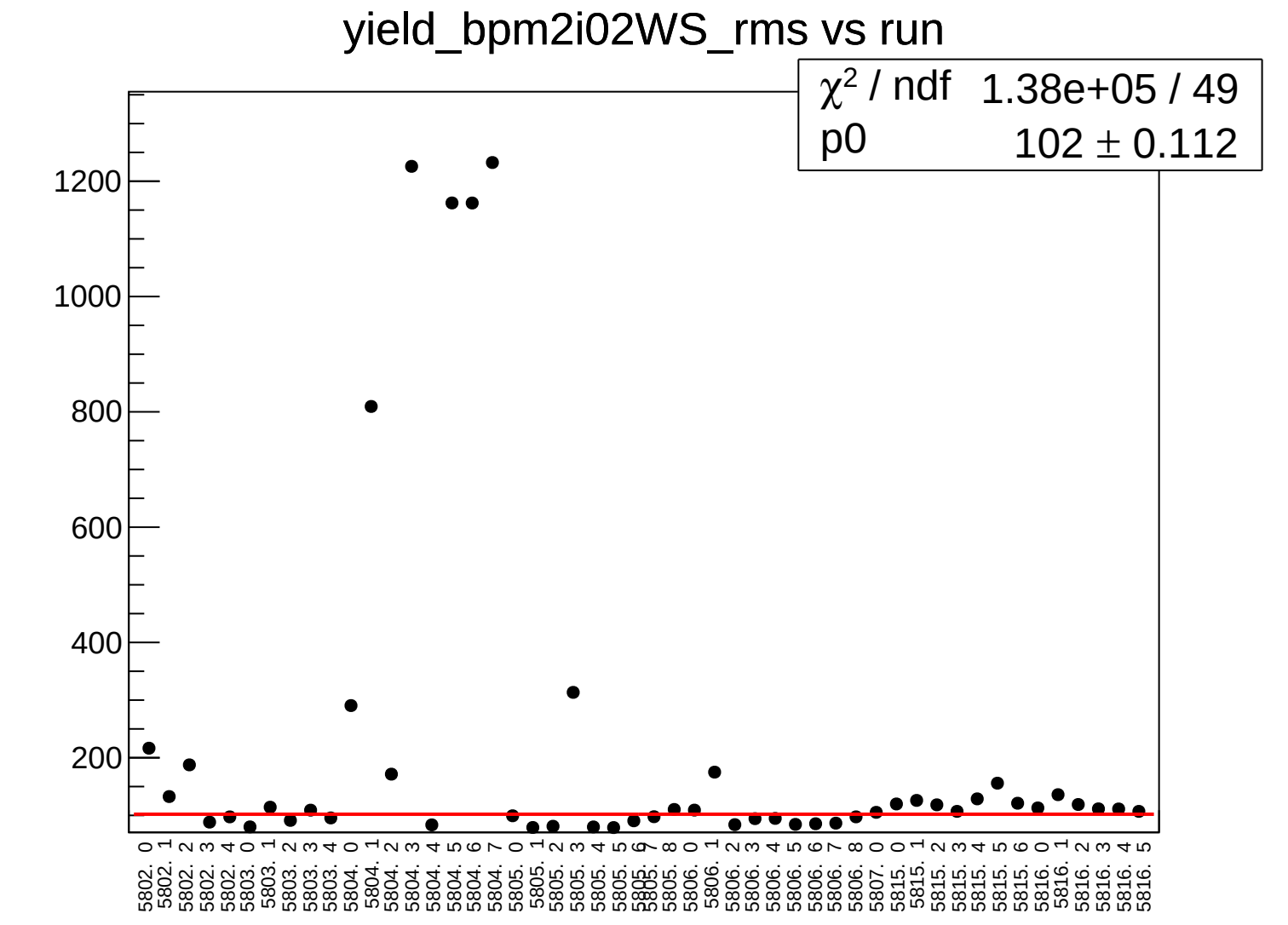

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.197e+07 / 49
p0 1.271e+05 ± 0.1424
127.5
127
126.5
126
125.5
125
124.5
pull
Entries 50
Mean −162.4
Std Dev 192.2
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

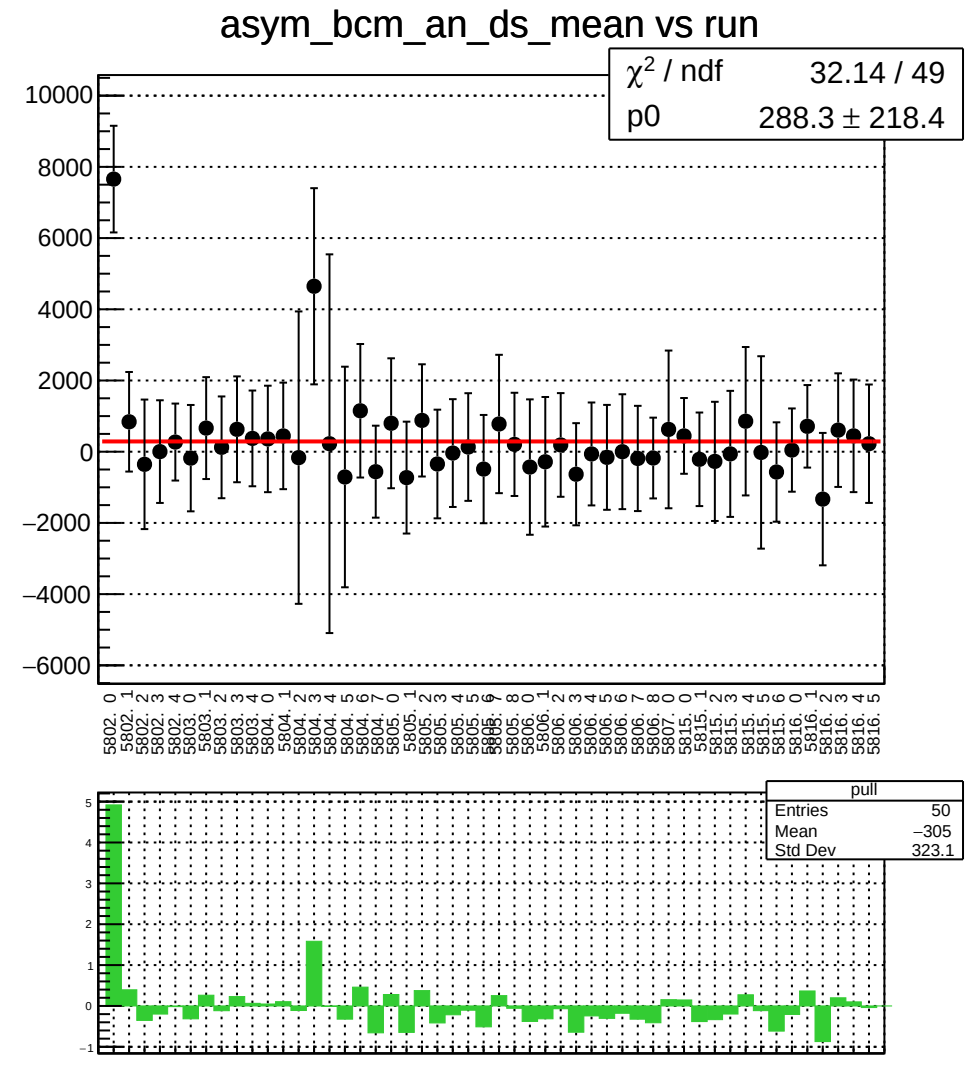

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

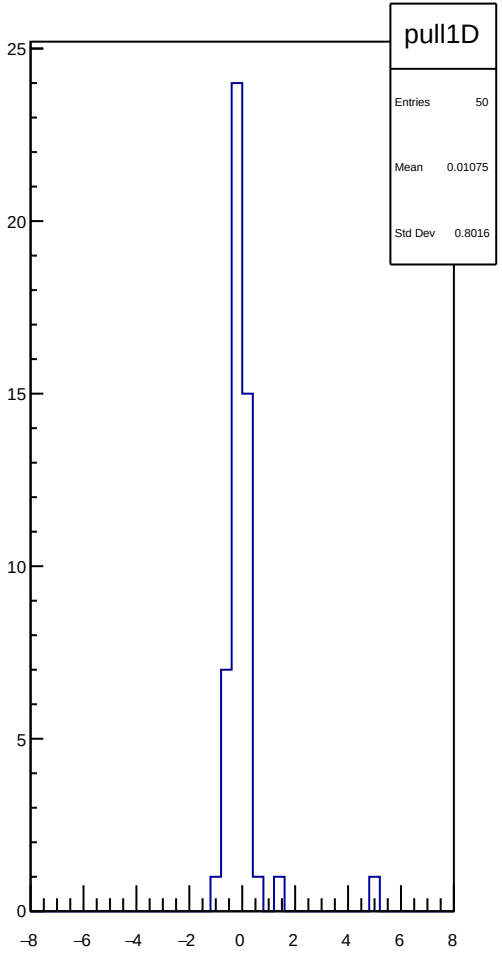

yield_bpm2i01WS_rms vs run
χ² / ndf 1.447e+05 / 49
p0 91.35 ± 0.1007
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

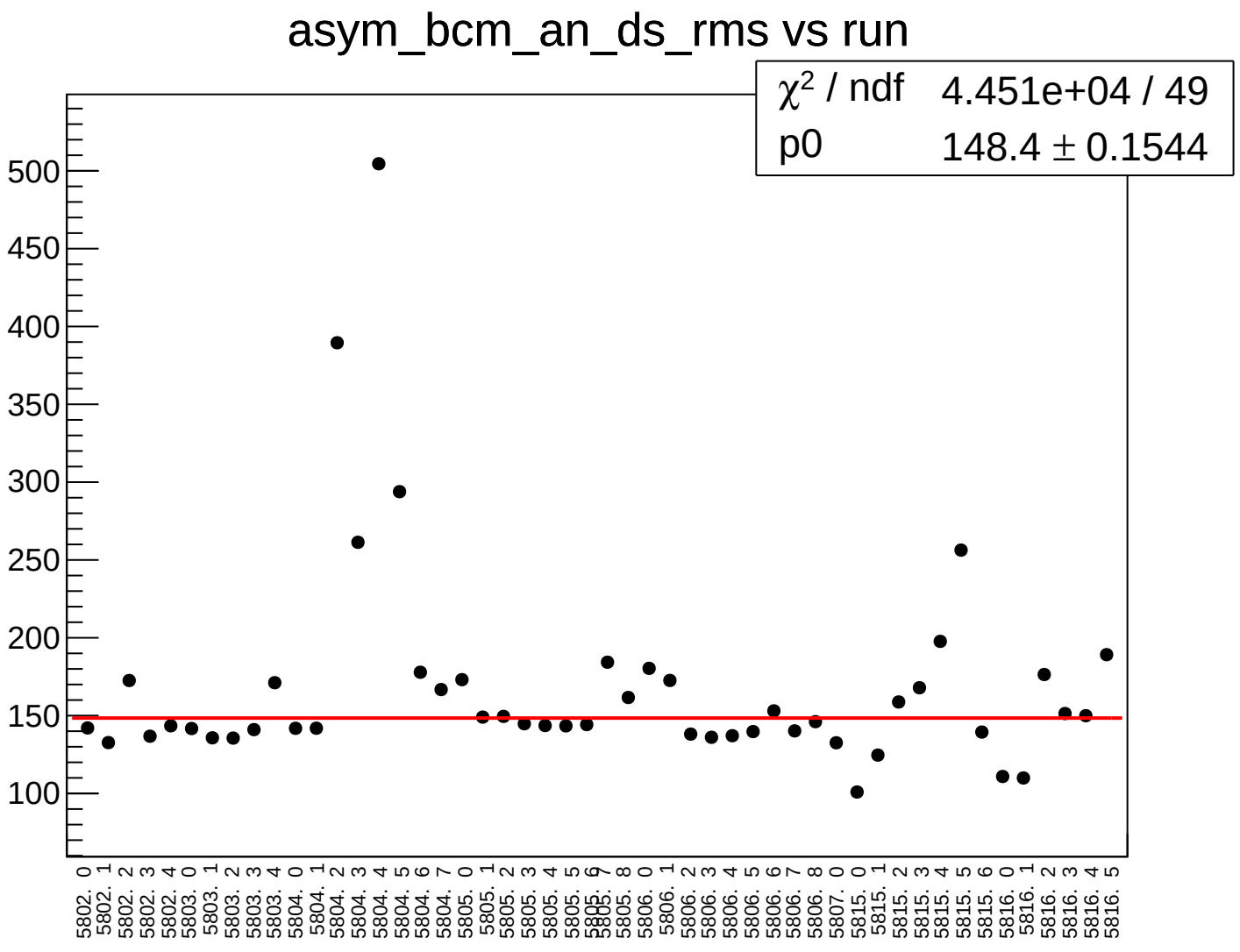

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 1.152e+07 / 49
p0 1.31e+05 ± 0.1583
131.5
131
130.5
130
129.5
129
128.5
pull
Entries 50
Mean −878.2
Std Dev 910.3
500
0
−500
−1000
−1500

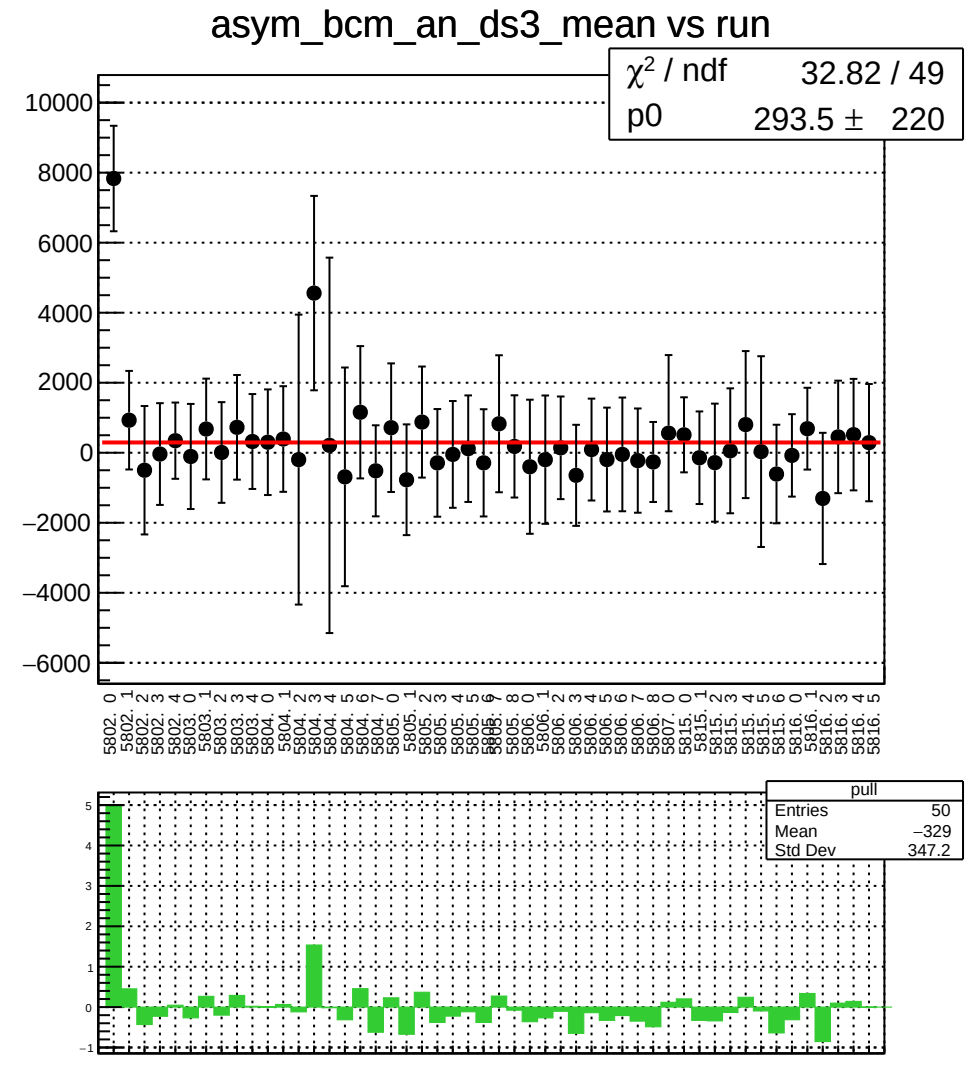

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

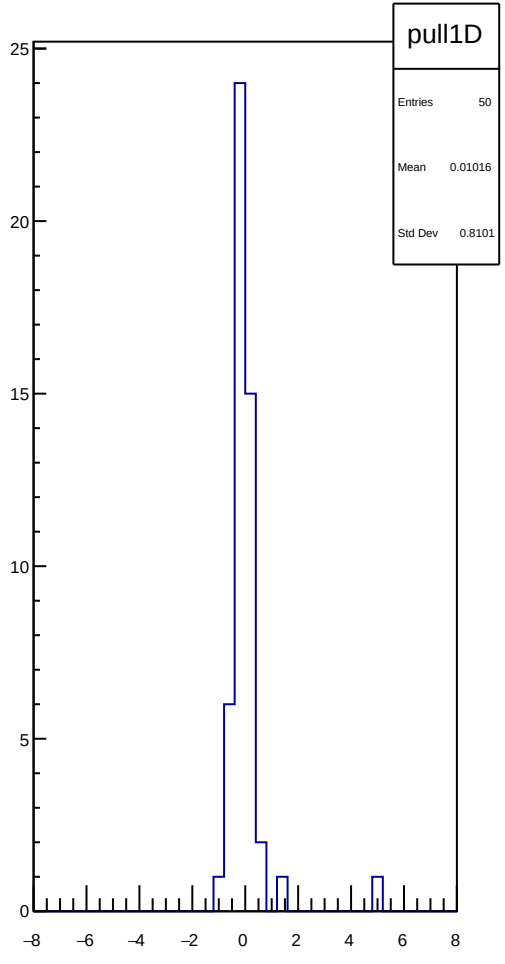

yield_bpm2i02WS_rms vs run
χ² / ndf 1.38e+05 / 49
p0 102 ± 0.112
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

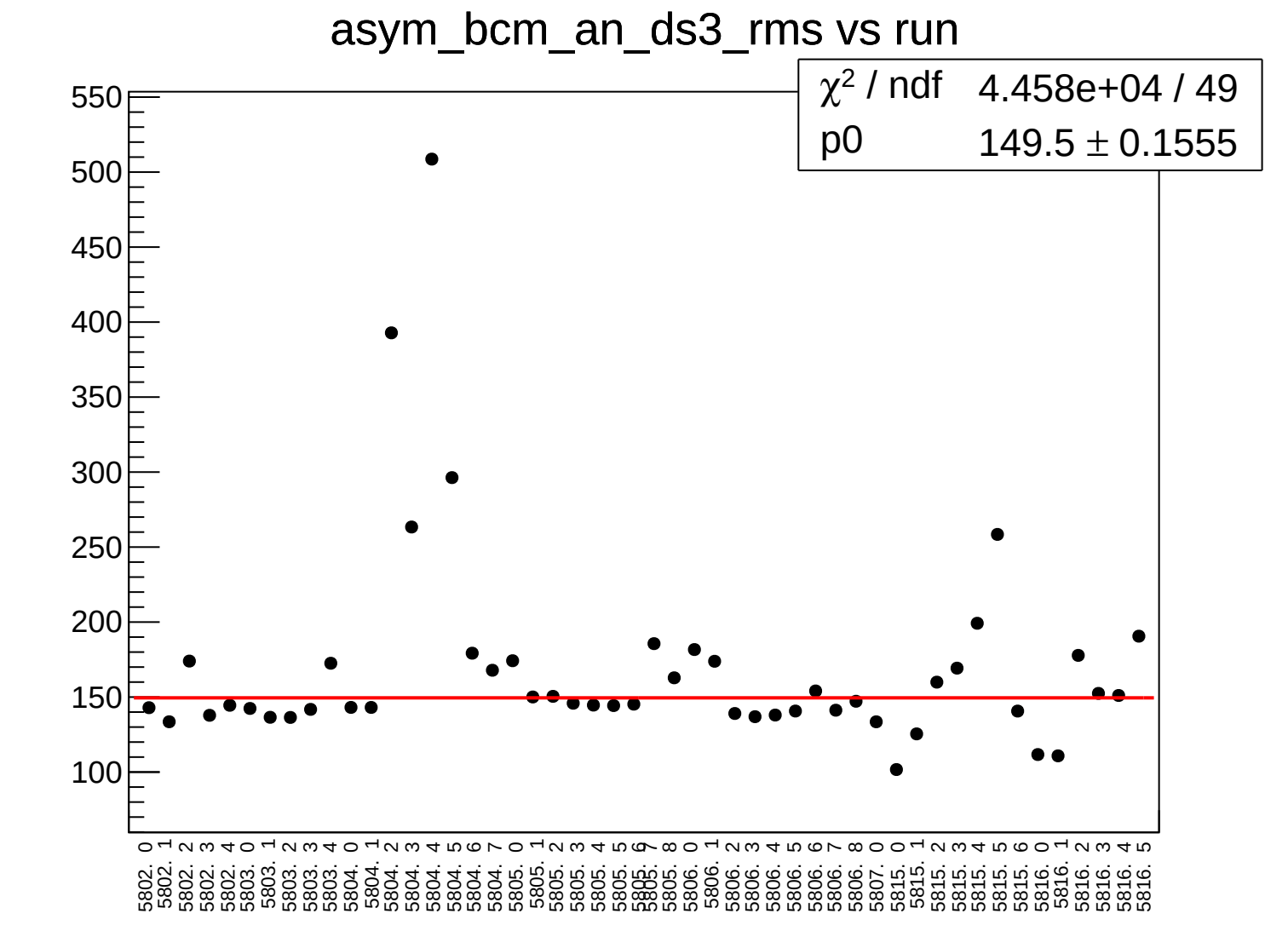

asym_bcm_an_ds_mean vs run
χ² / ndf 32.14 / 49
p0 288.3 ± 218.4
pull
Entries 50
Mean −305
Std Dev 323.1

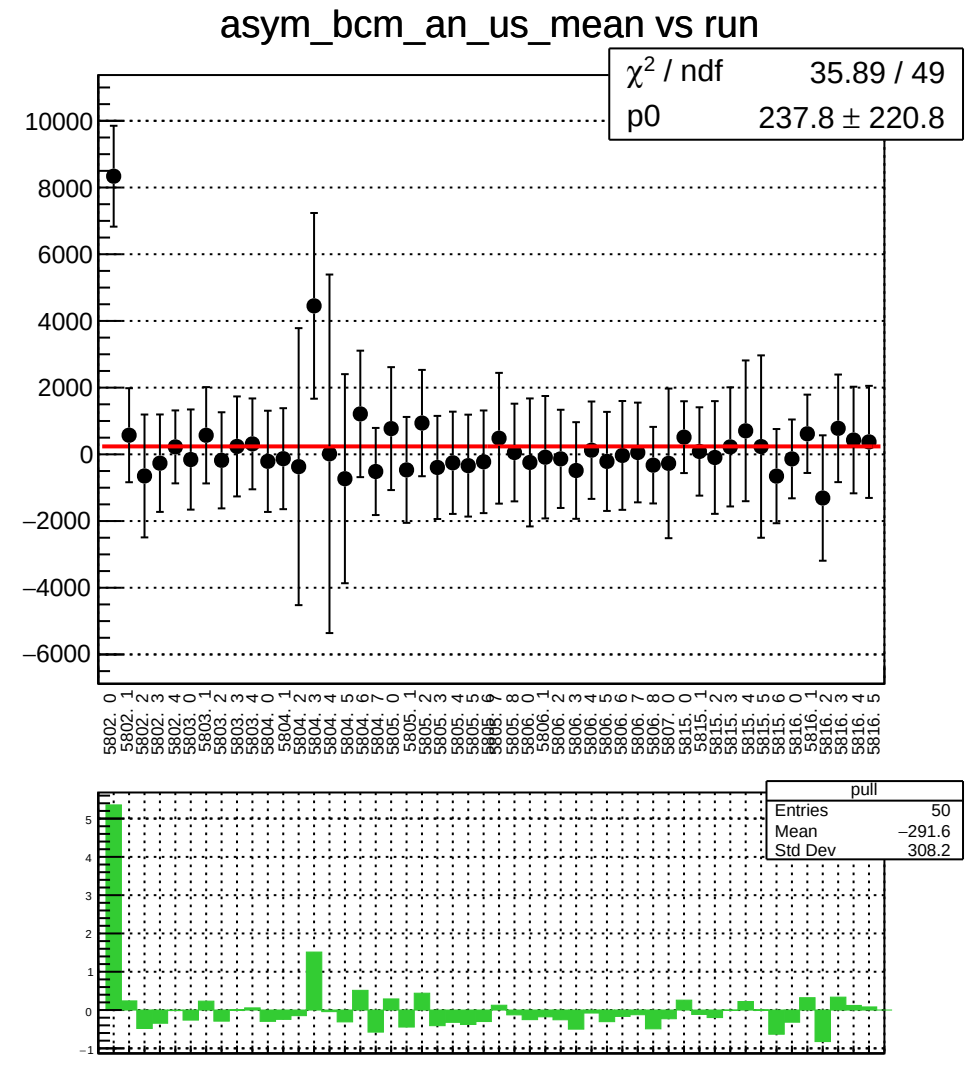

pull1D
Entries 50
Mean 0.01075
Std Dev 0.8016

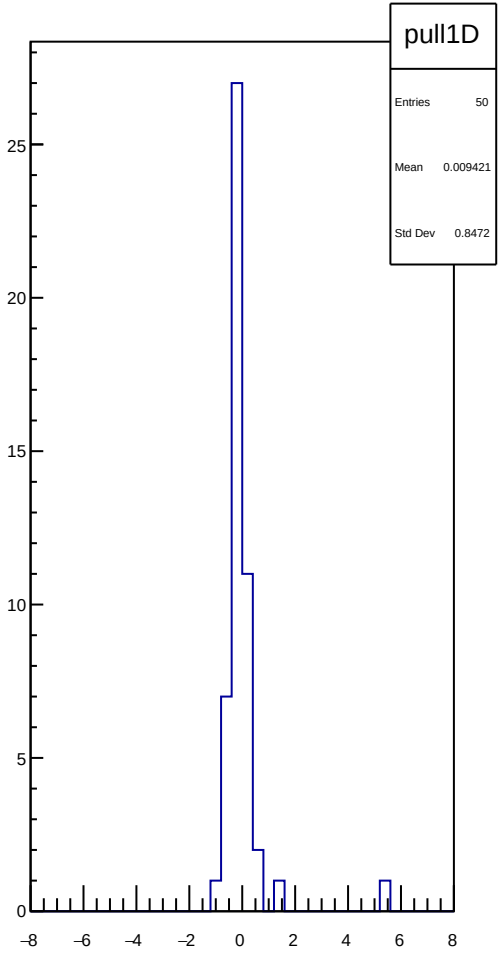

asym_bcm_an_ds_rms vs run
χ² / ndf 4.451e+04 / 49
p0 148.4 ± 0.1544
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

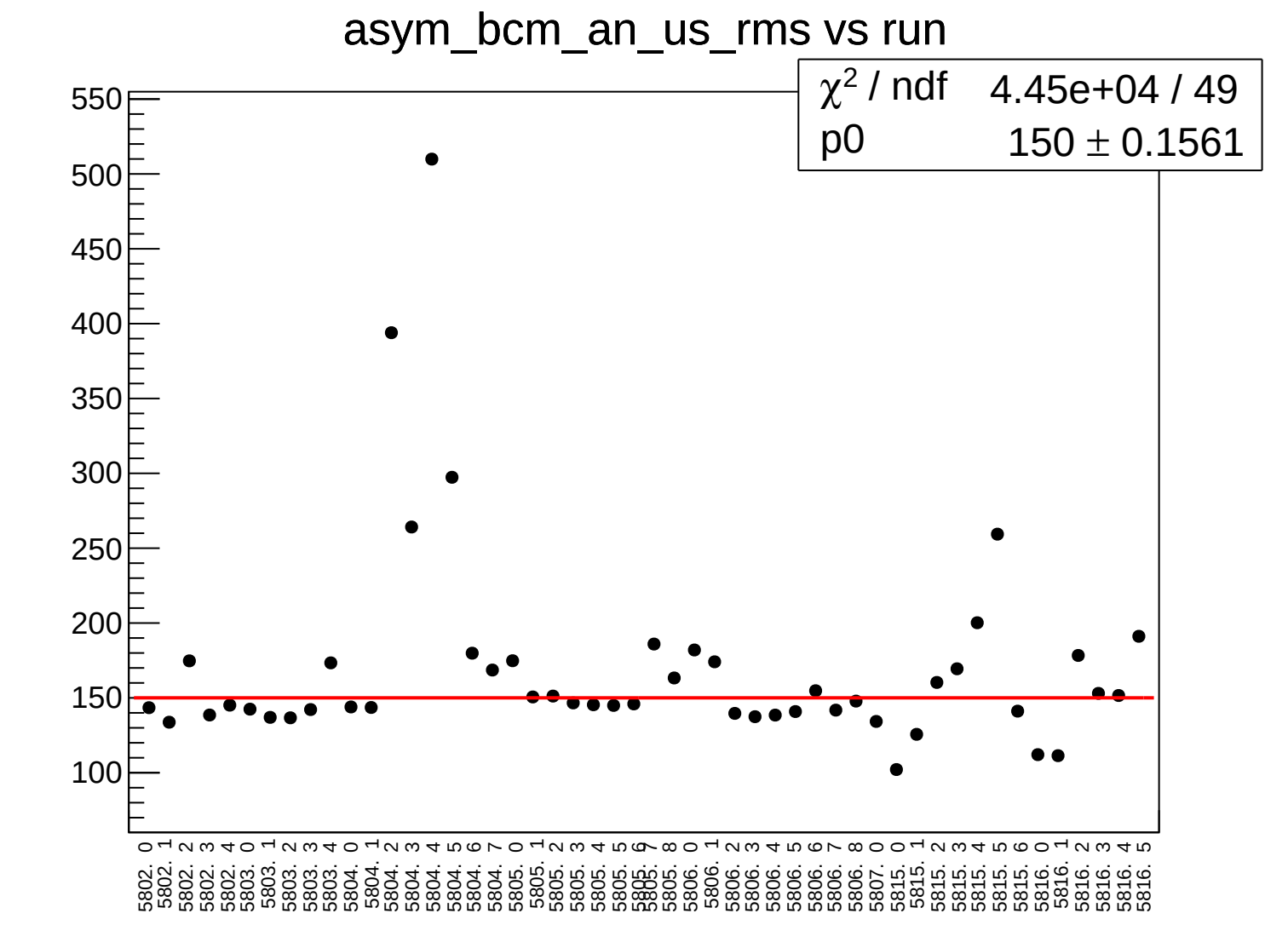

asym_bcm_an_ds3_mean vs run
χ² / ndf 32.82 / 49
p0 293.5 ± 220
pull
Entries 50
Mean −329
Std Dev 347.2


pull1D
Entries 50
Mean 0.01016
Std Dev 0.8101


asym_bcm_an_ds3_rms vs run
χ^2 / ndf 4.458e+04 / 49
p0 149.5 ± 0.1555
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_an_us_mean vs run
χ² / ndf 35.89 / 49
p0 237.8 ± 220.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −291.6
Std Dev 308.2
5
4
3
2
1
0
−1


pull1D
Entries 50
Mean 0.009421
Std Dev 0.8472
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_rms vs run
χ² / ndf 4.45e+04 / 49
p0 150 ± 0.1561
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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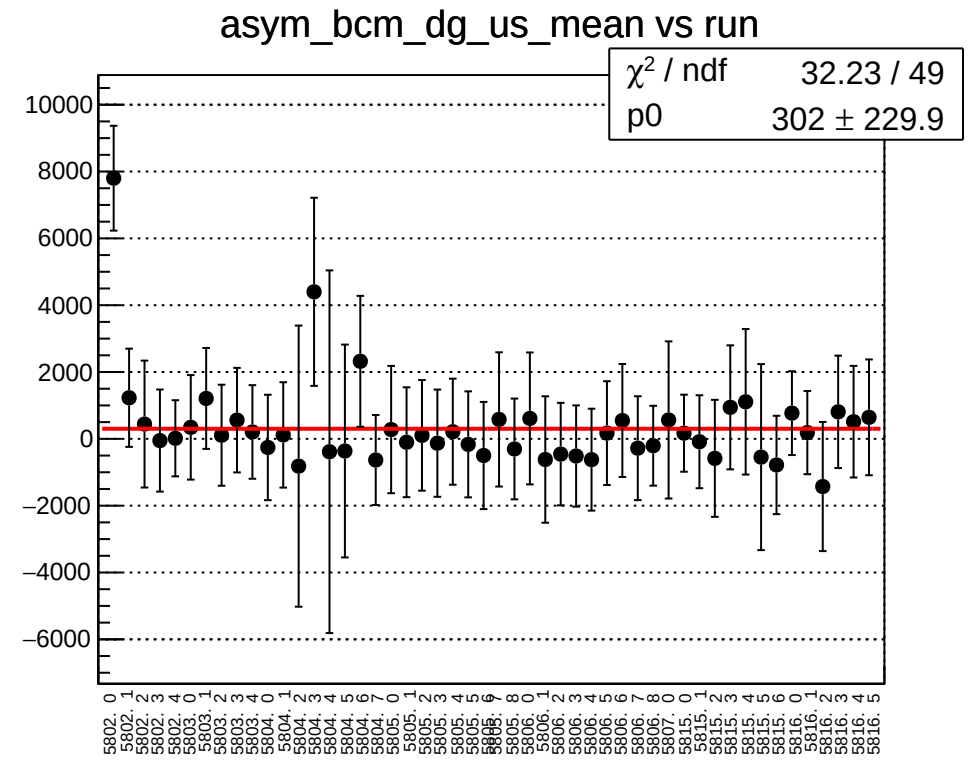
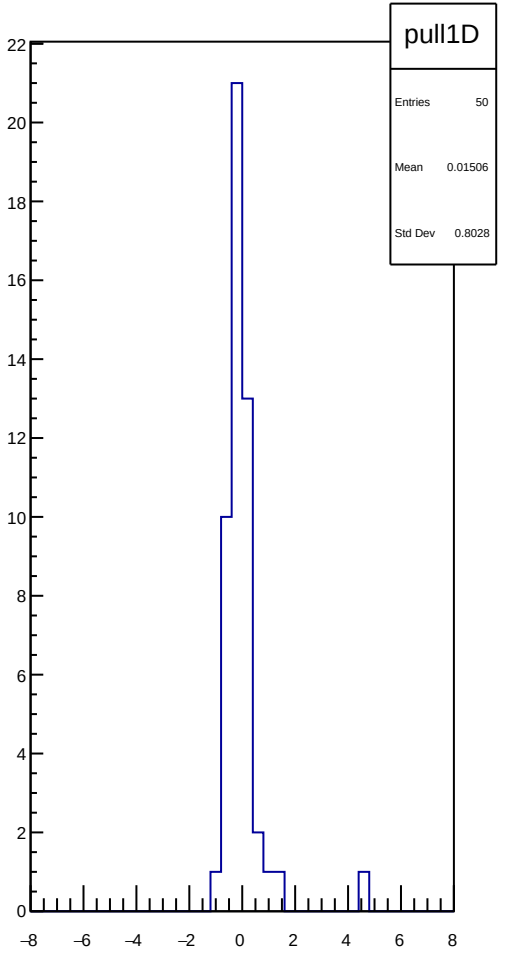
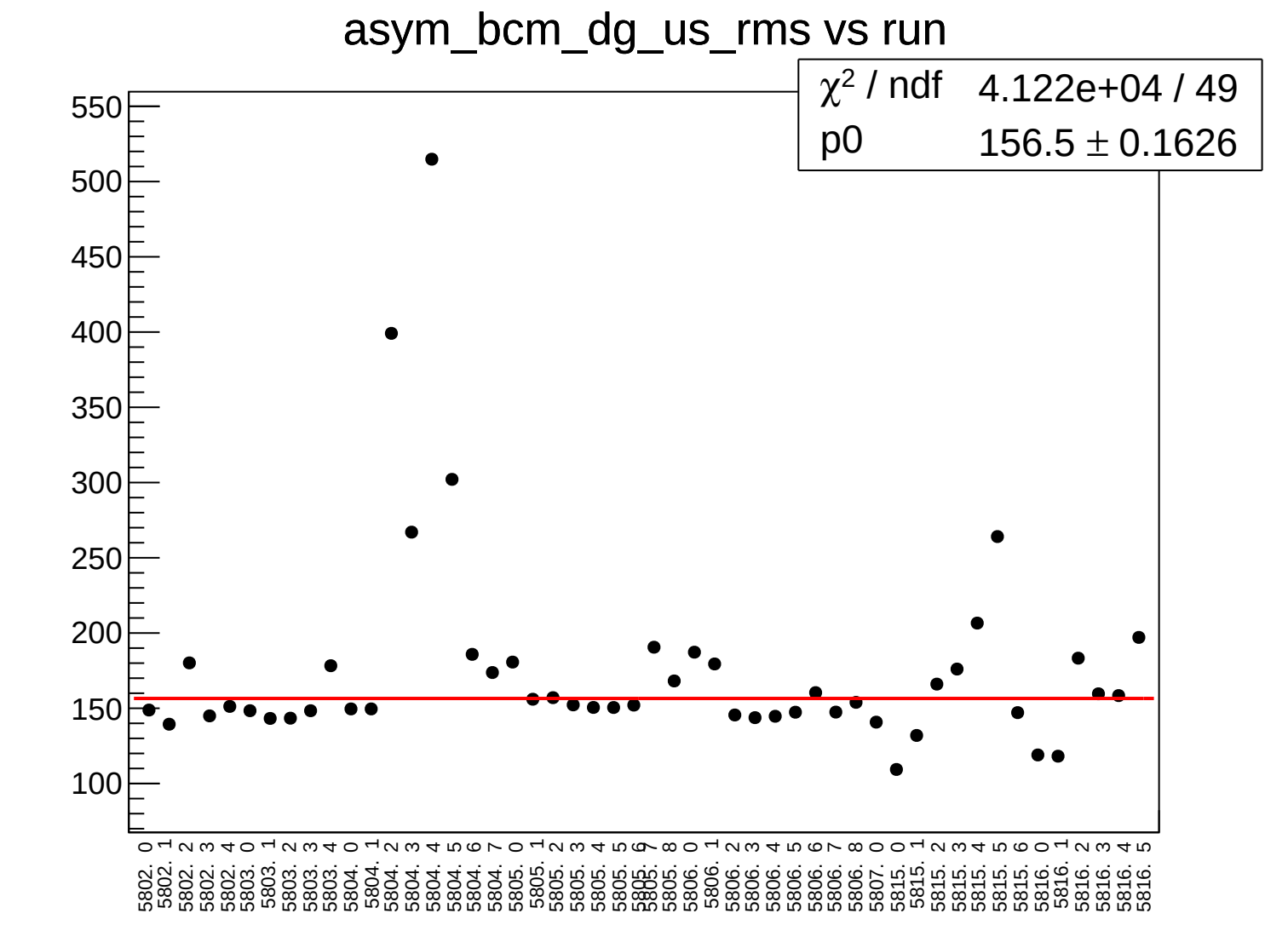
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_dg_us_mean vs run
χ² / ndf 32.23 / 49
p0 302 ± 229.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean −206.3
Std Dev 222.9


pull1D
Entries 50
Mean 0.01506
Std Dev 0.8028


asym_bcm_dg_us_rms vs run
χ² / ndf 4.122e+04 / 49
p0 156.5 ± 0.1626
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500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
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5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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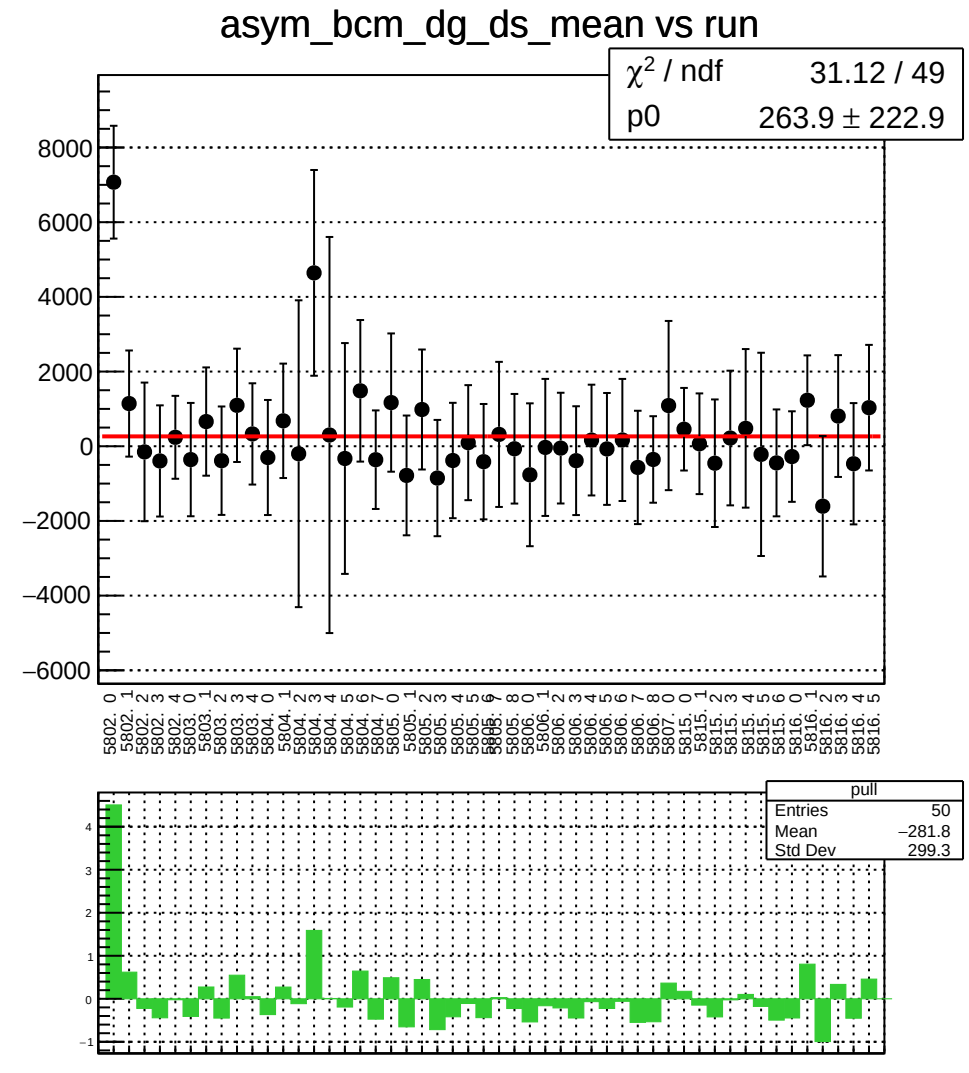
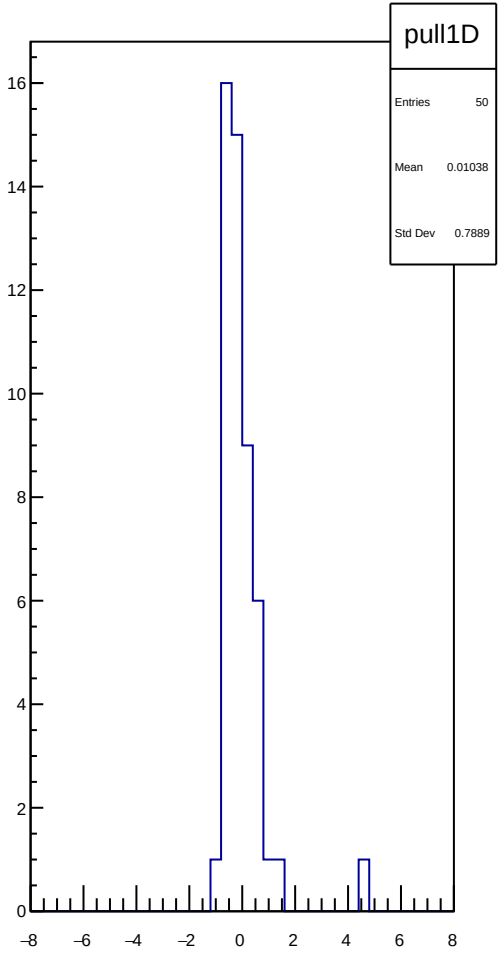
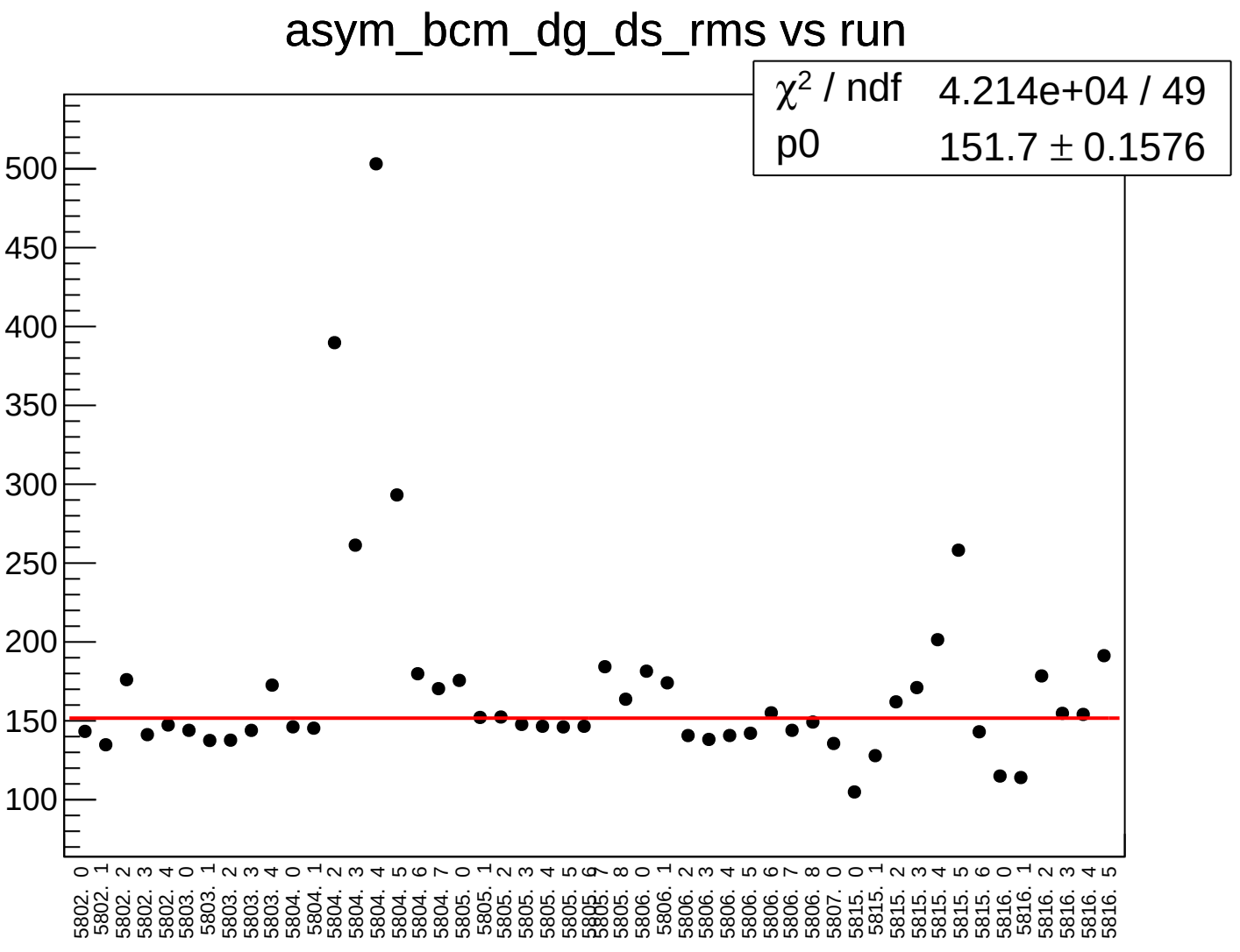
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bcm_dg_ds_mean vs run
χ² / ndf 31.12 / 49
p0 263.9 ± 222.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean −281.8
Std Dev 299.3


pull1D
Entries 50
Mean 0.01038
Std Dev 0.7889


asym_bcm_dg_ds_rms vs run
χ² / ndf 4.214e+04 / 49
p0 151.7 ± 0.1576
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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5815. 2
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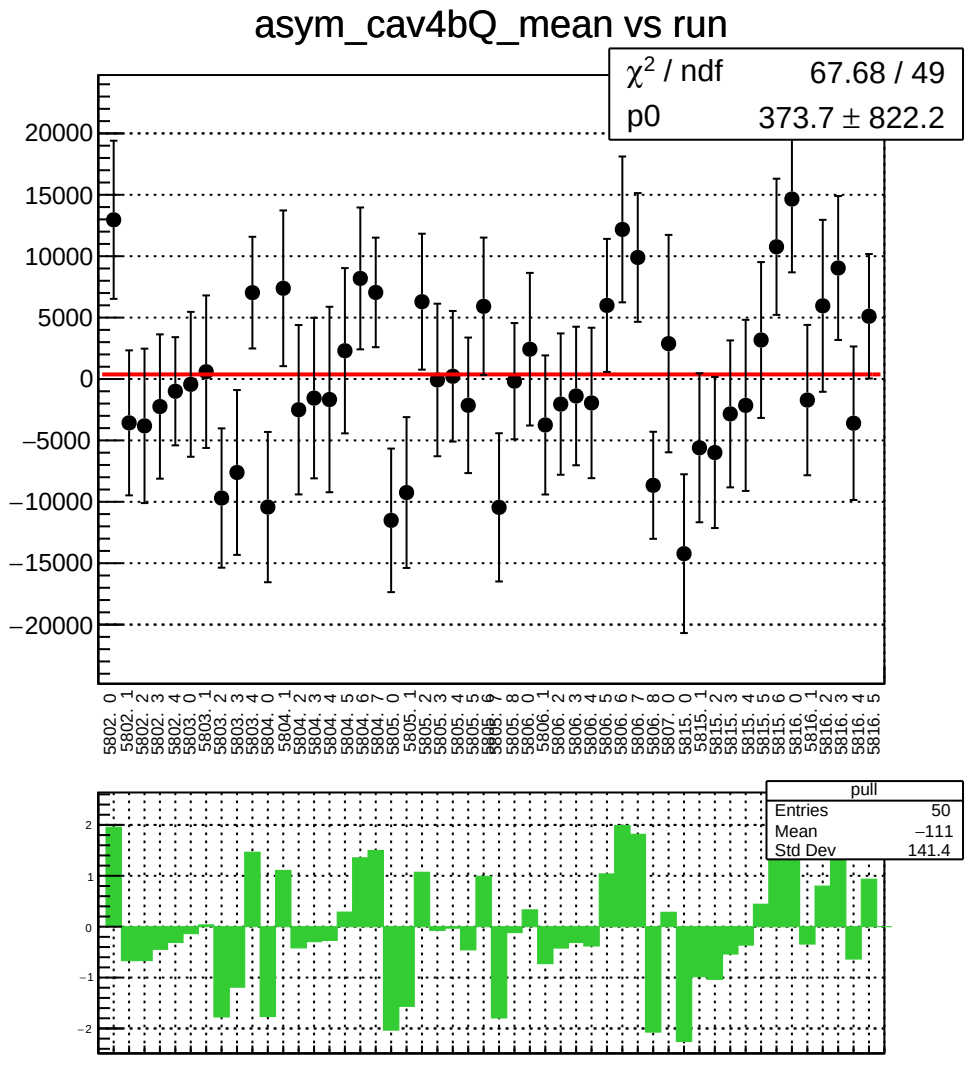
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_cav4bQ_mean vs run
χ² / ndf 67.68 / 49
p0 373.7 ± 822.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
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5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 3
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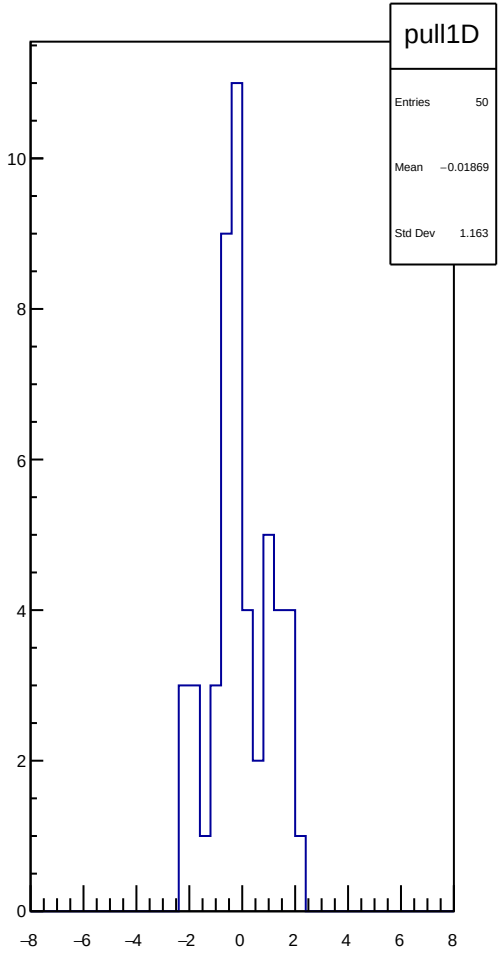
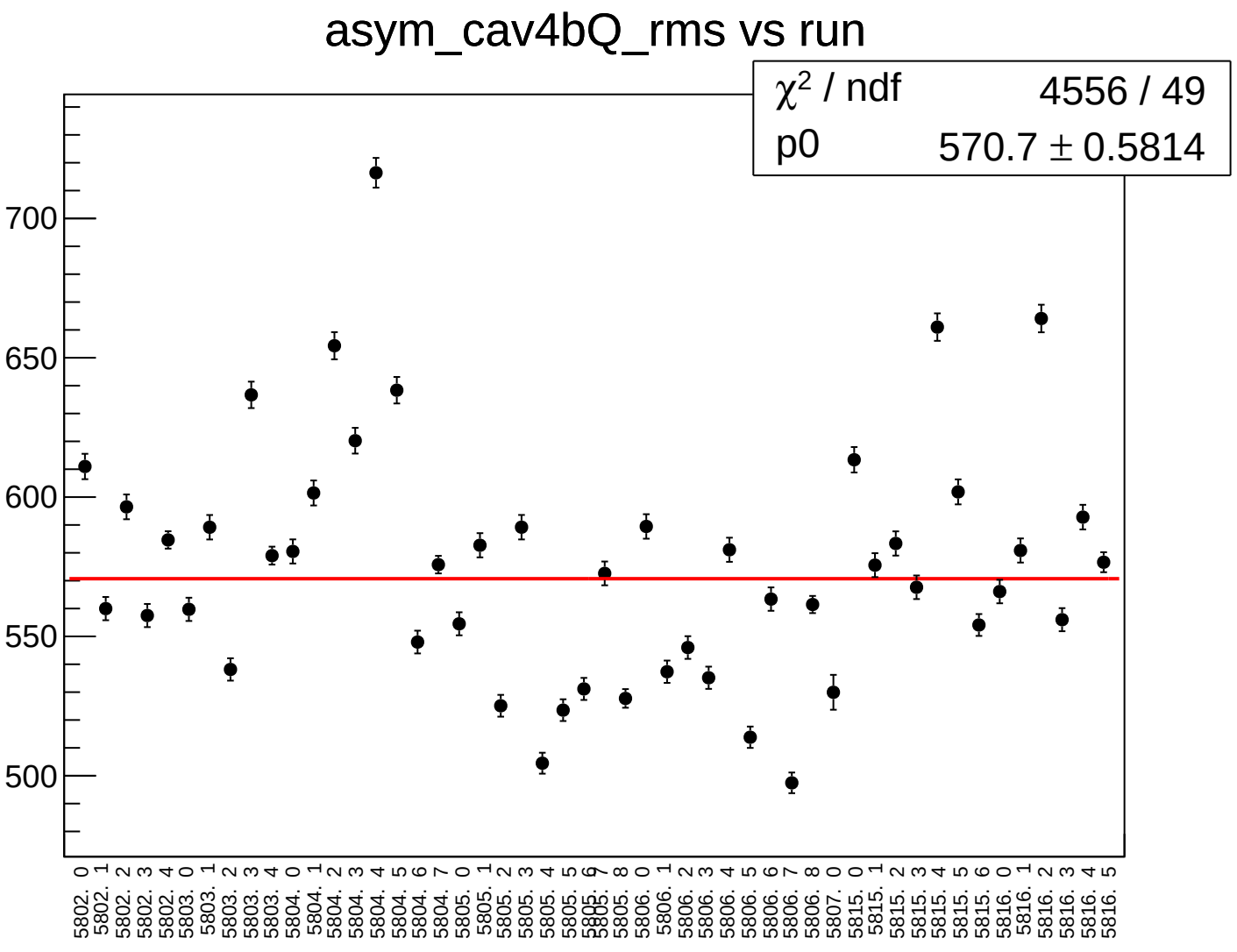
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean −111
Std Dev 141.4
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01869
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4bQ_rms vs run
χ² / ndf 4556 / 49
p0 570.7 ± 0.5814
700
650
600
550
500
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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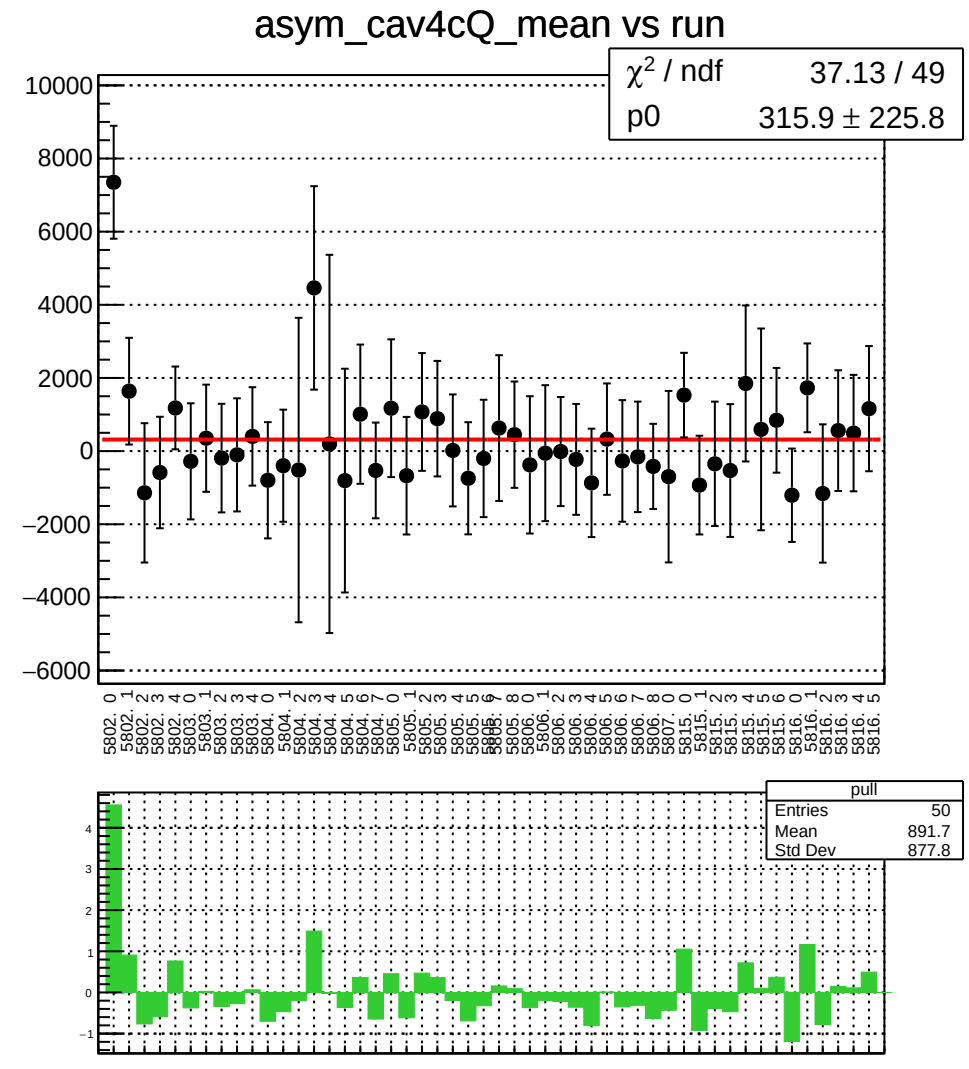
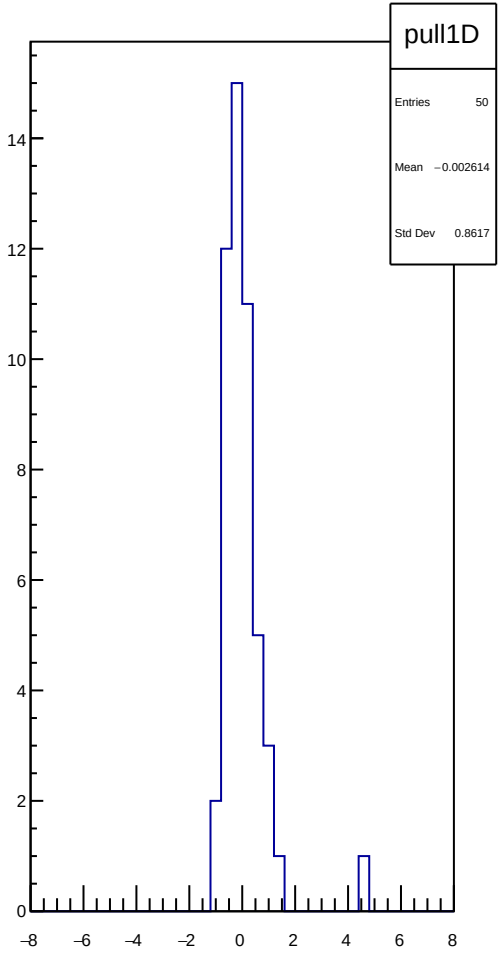
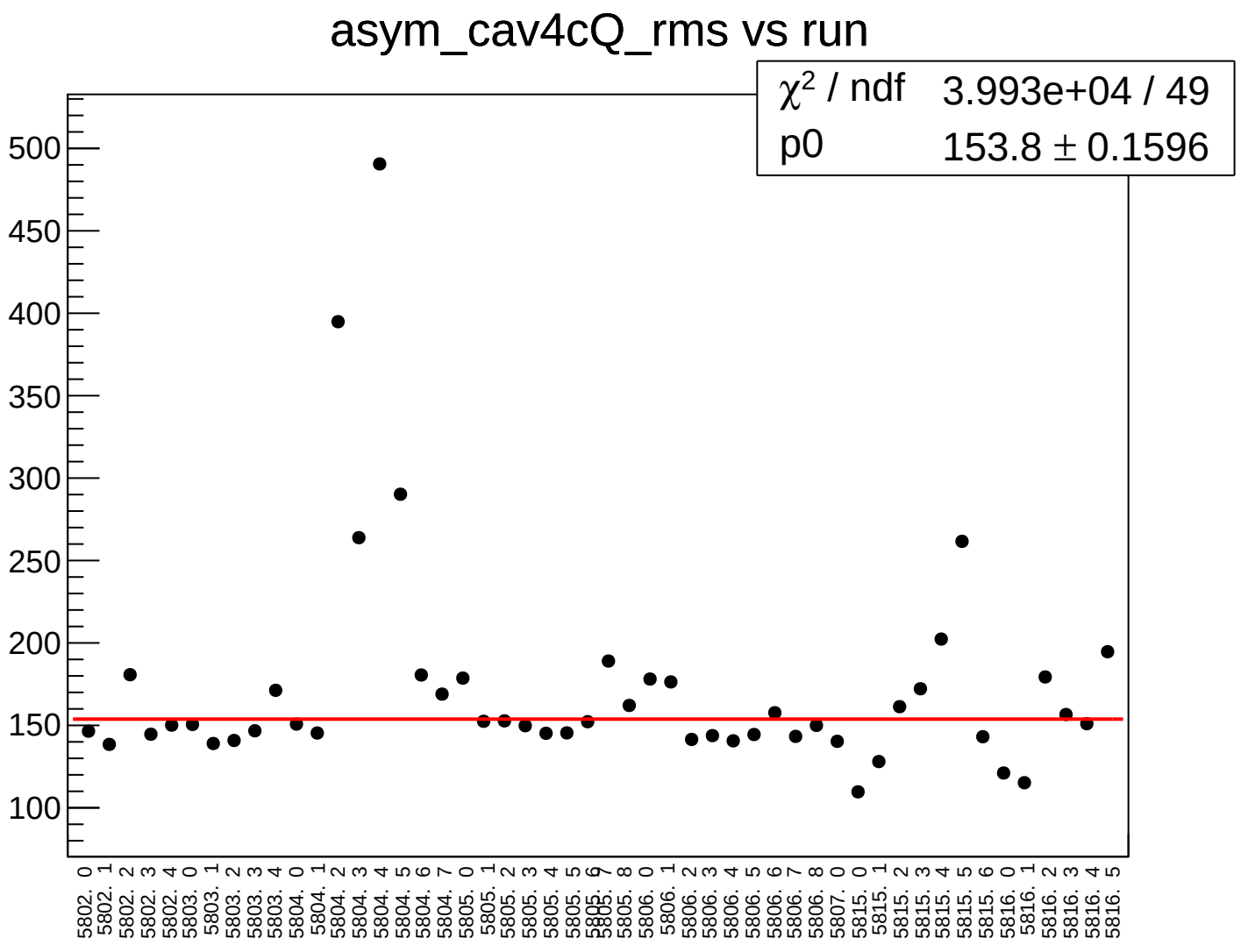
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_cav4cQ_mean vs run
χ² / ndf 37.13 / 49
p0 315.9 ± 225.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean 891.7
Std Dev 877.8
4
3
2
1
0
−1


pull1D
Entries 50
Mean −0.002614
Std Dev 0.8617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4cQ_rms vs run
χ² / ndf 3.993e+04 / 49
p0 153.8 ± 0.1596
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
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5805. 5
5805. 6
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5806. 2
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5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
5816. 0
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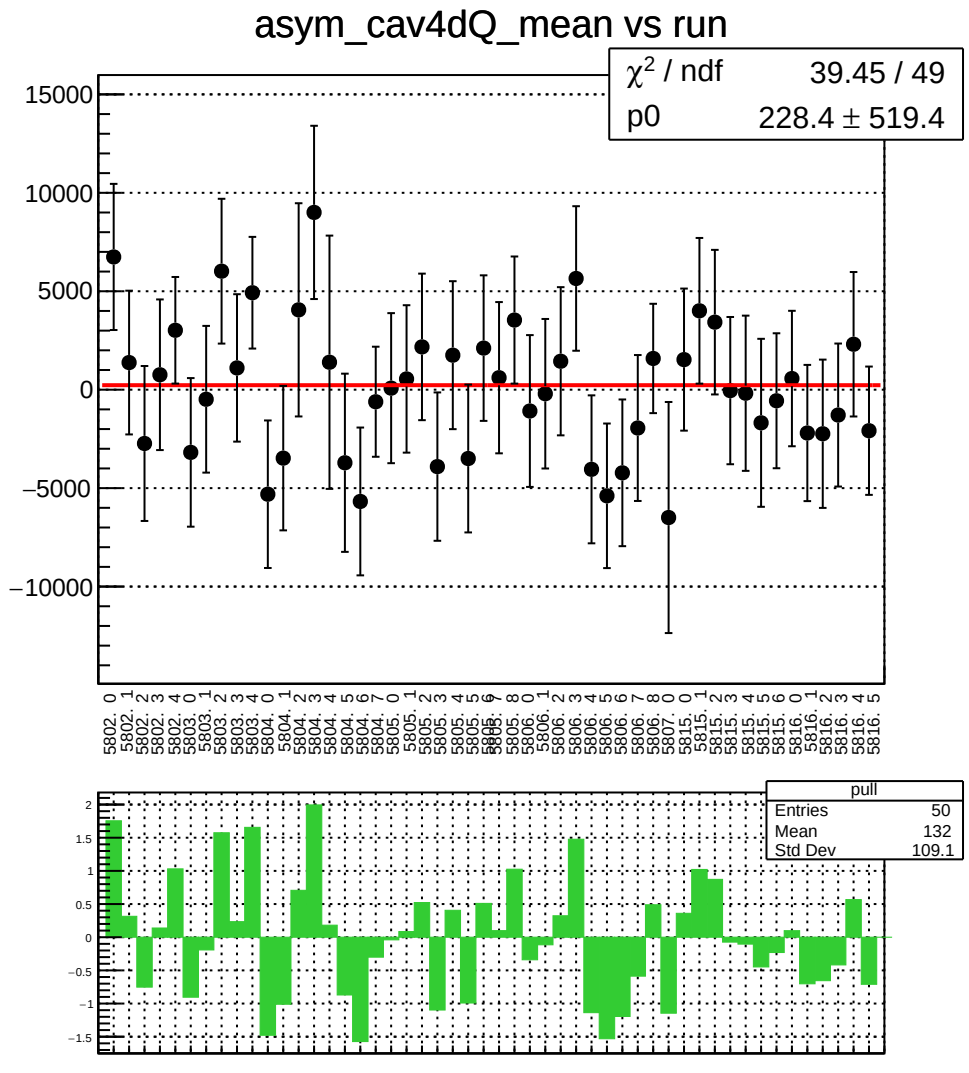
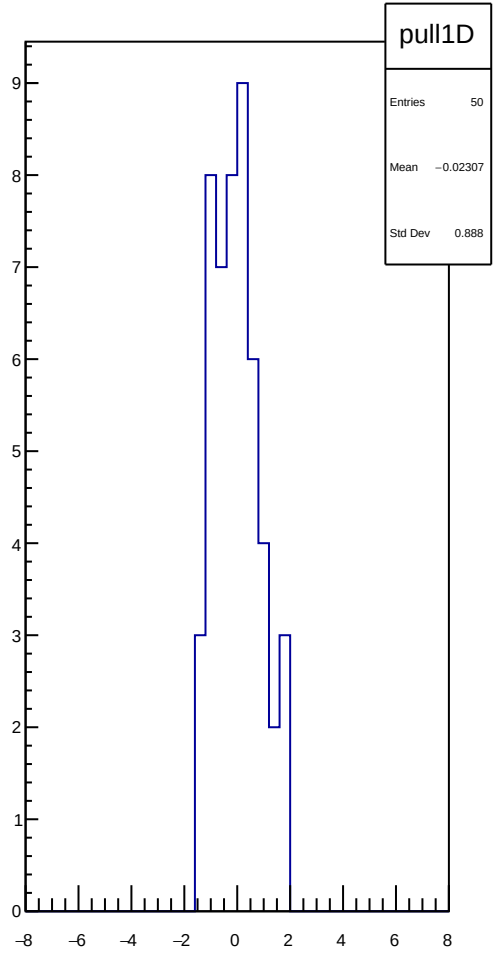
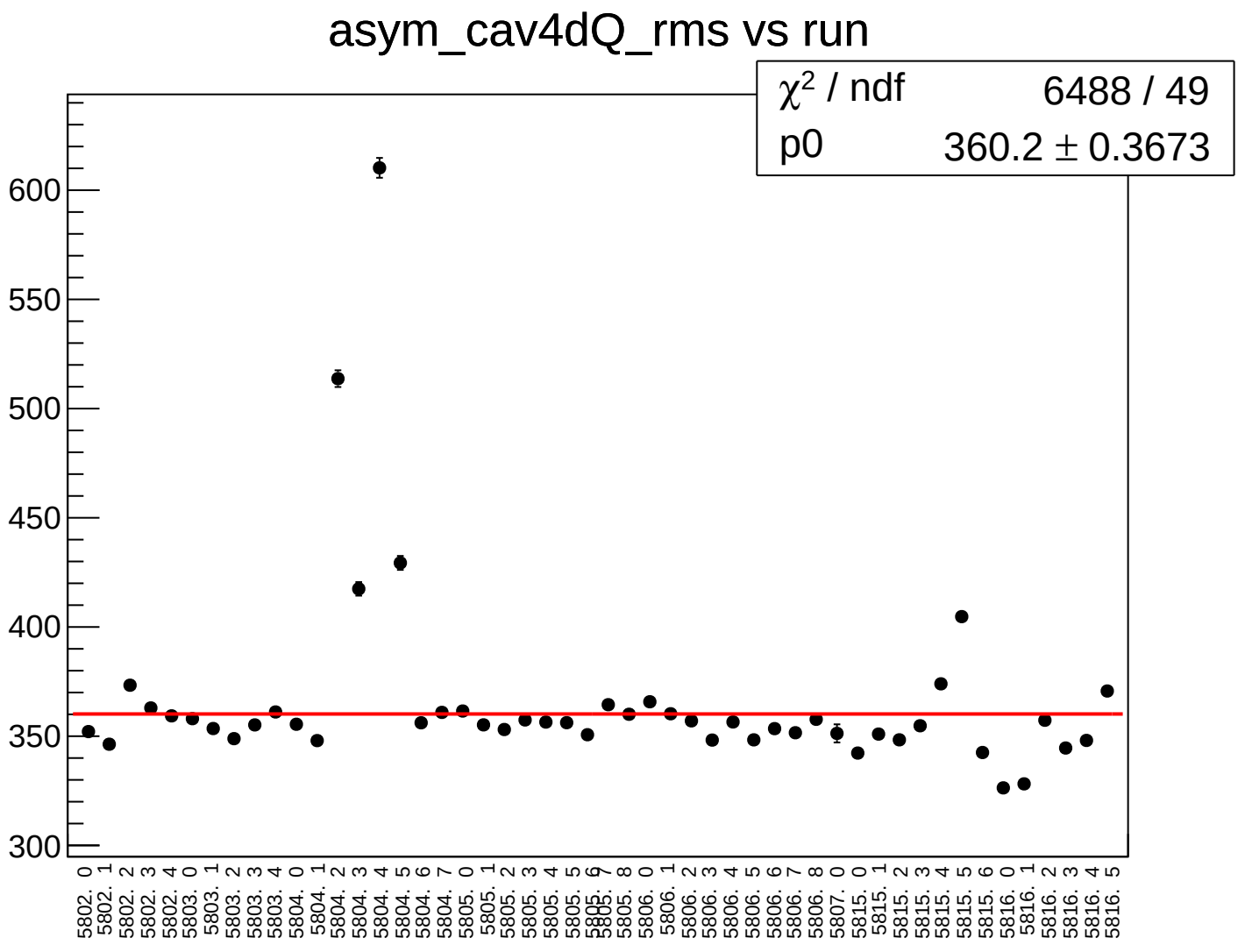
5816. 2
5816. 3
5816. 4
5816. 5


asym_cav4dQ_mean vs run
χ² / ndf 39.45 / 49
p0 228.4 ± 519.4
15000
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 132
Std Dev 109.1
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.02307
Std Dev 0.888
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4dQ_rms vs run
χ² / ndf 6488 / 49
p0 360.2 ± 0.3673
600
550
500
450
400
350
300
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
5816. 0
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5816. 2
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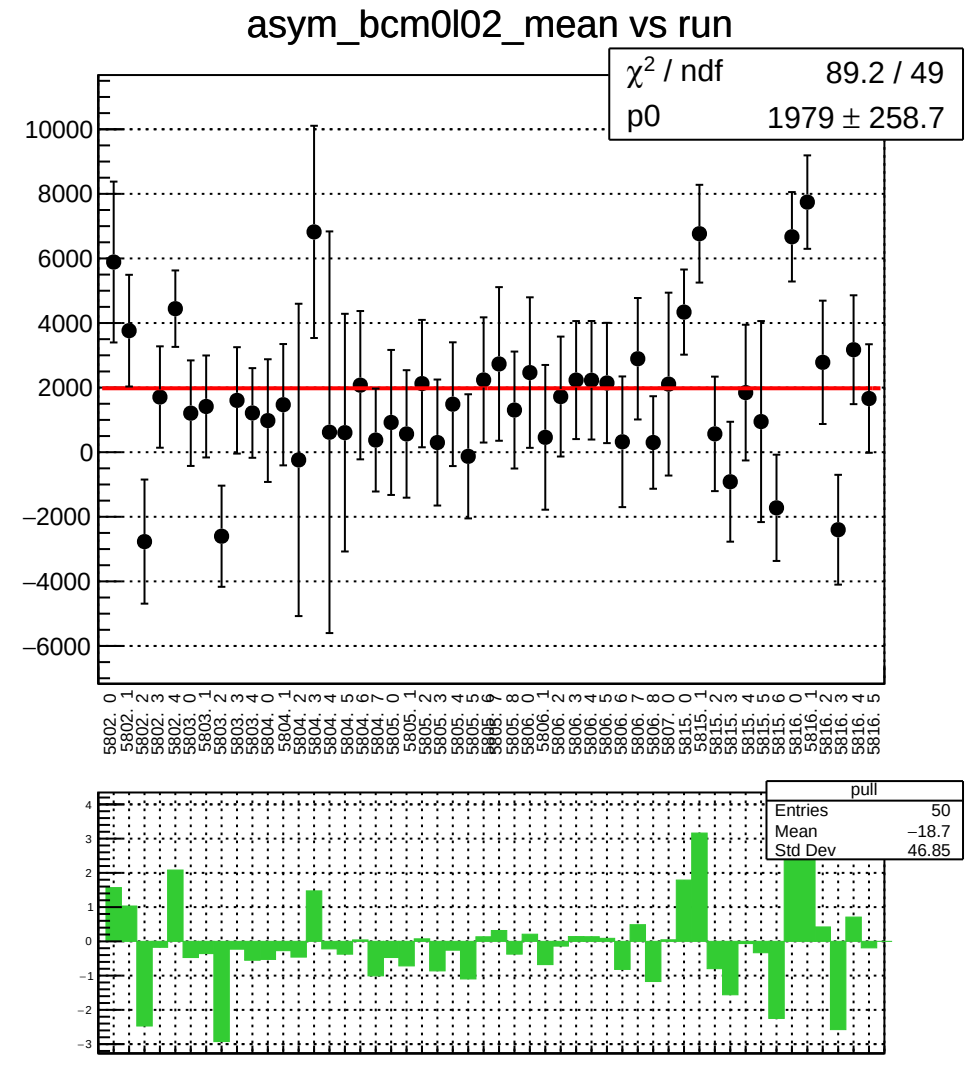
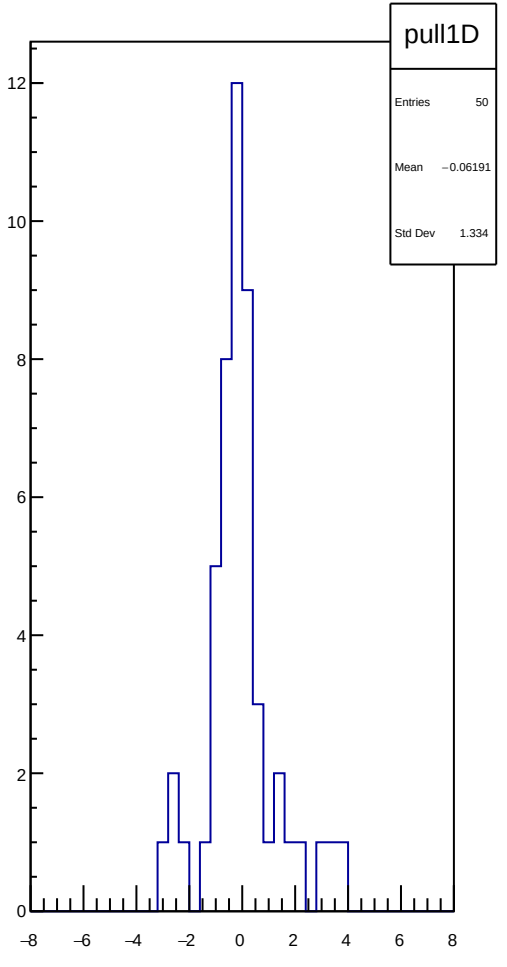
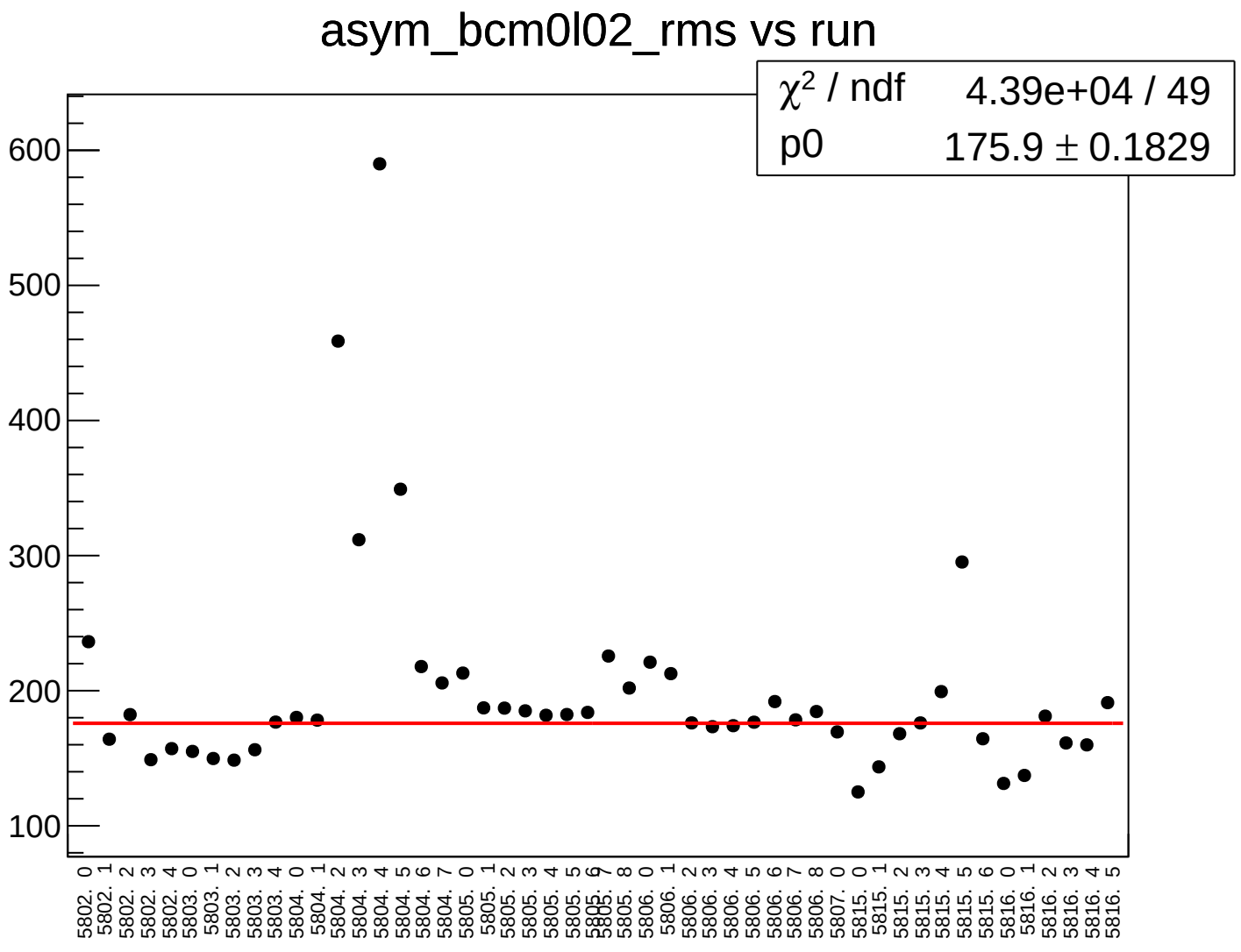
5816. 4
5816. 5


asym_bcm0l02_mean vs run
χ^2 / ndf 89.2 / 49
p0 1979 ± 258.7
pull
Entries 50
Mean −18.7
Std Dev 46.85


pull1D
Entries 50
Mean −0.06191
Std Dev 1.334


asym_bcm0l02_rms vs run
χ² / ndf 4.39e+04 / 49
p0 175.9 ± 0.1829
600
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
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5804. 6
5804. 7
5805. 0
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5805. 2
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5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
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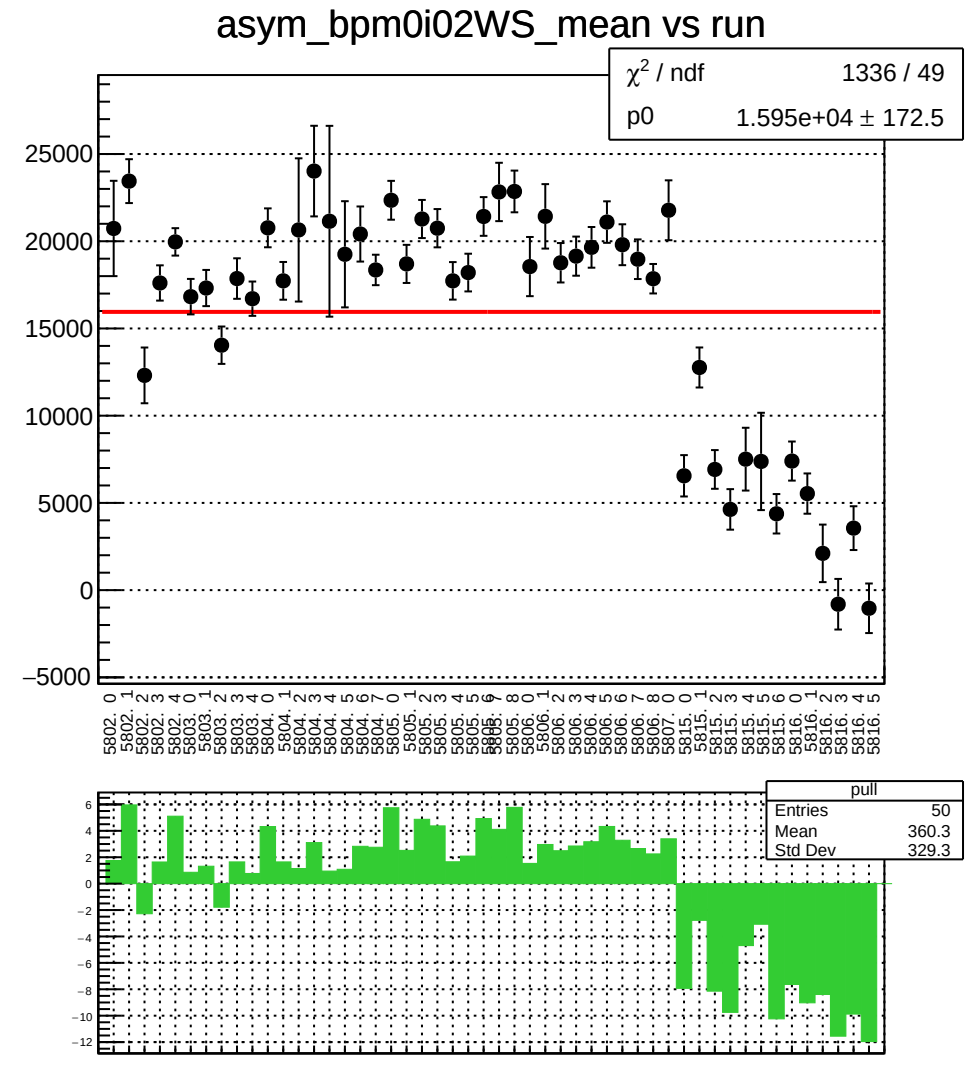
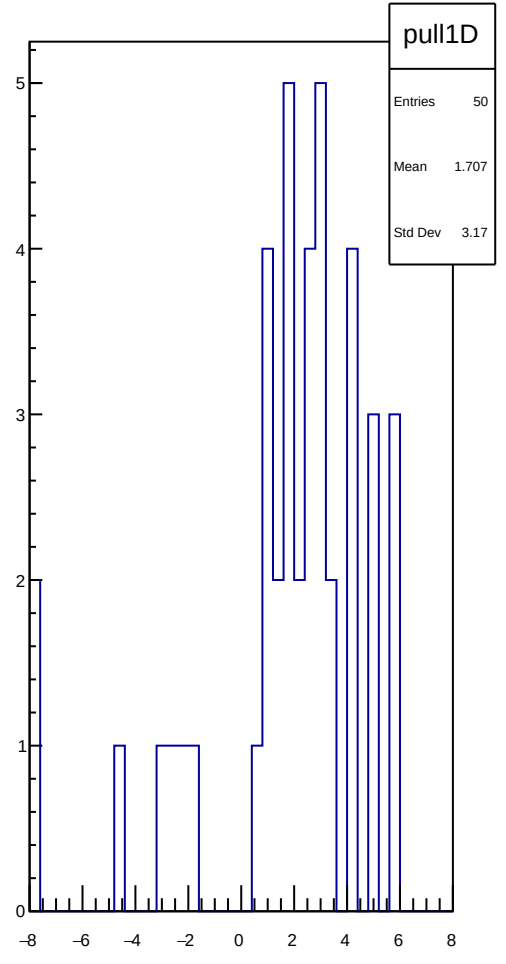
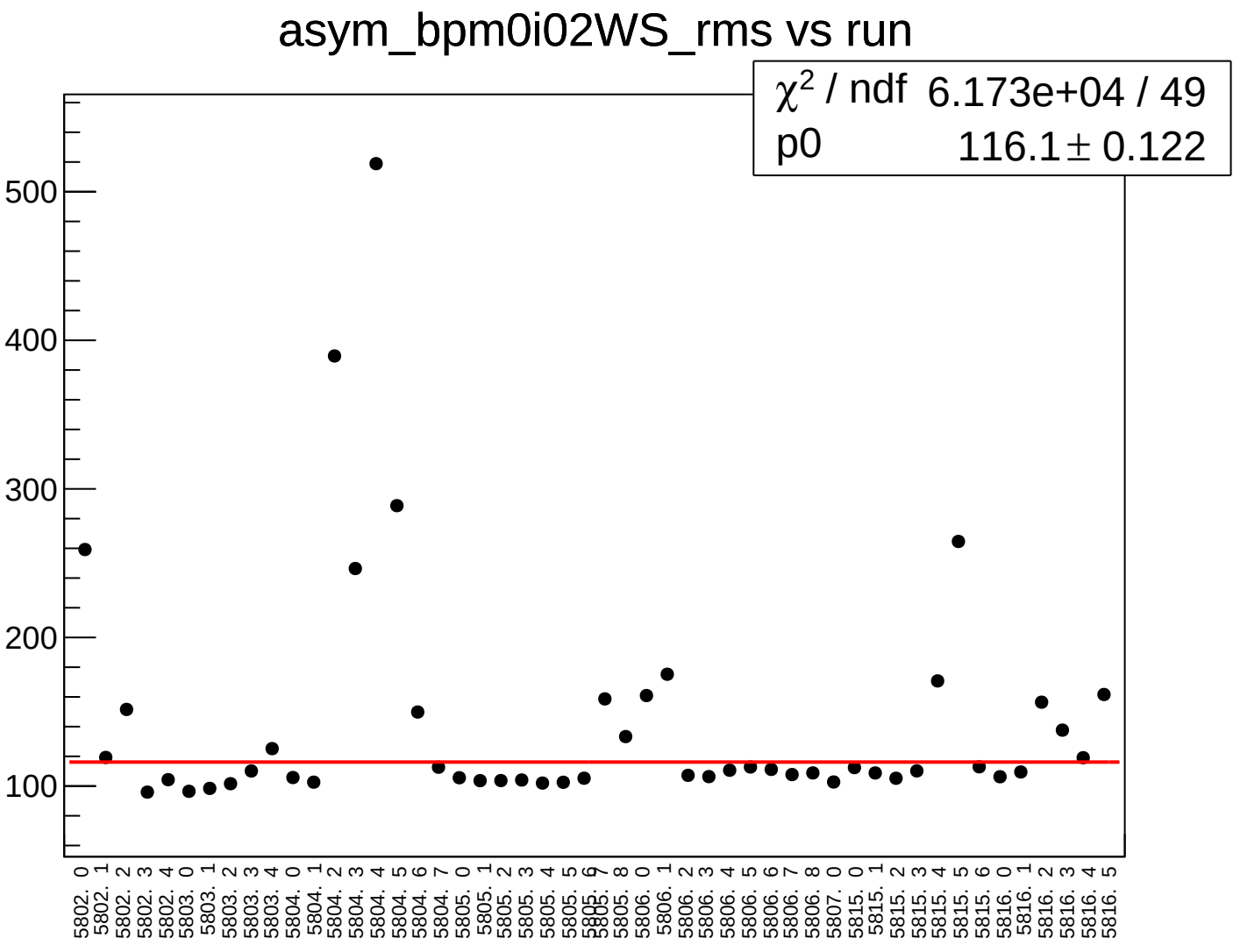
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0i02WS_mean vs run
χ² / ndf 1336 / 49
p0 1.595e+04 ± 172.5
pull
Entries 50
Mean 360.3
Std Dev 329.3


pull1D
Entries 50
Mean 1.707
Std Dev 3.17


asym_bpm0i02WS_rms vs run
χ² / ndf 6.173e+04 / 49
p0 116.1 ± 0.122
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
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5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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5816. 2
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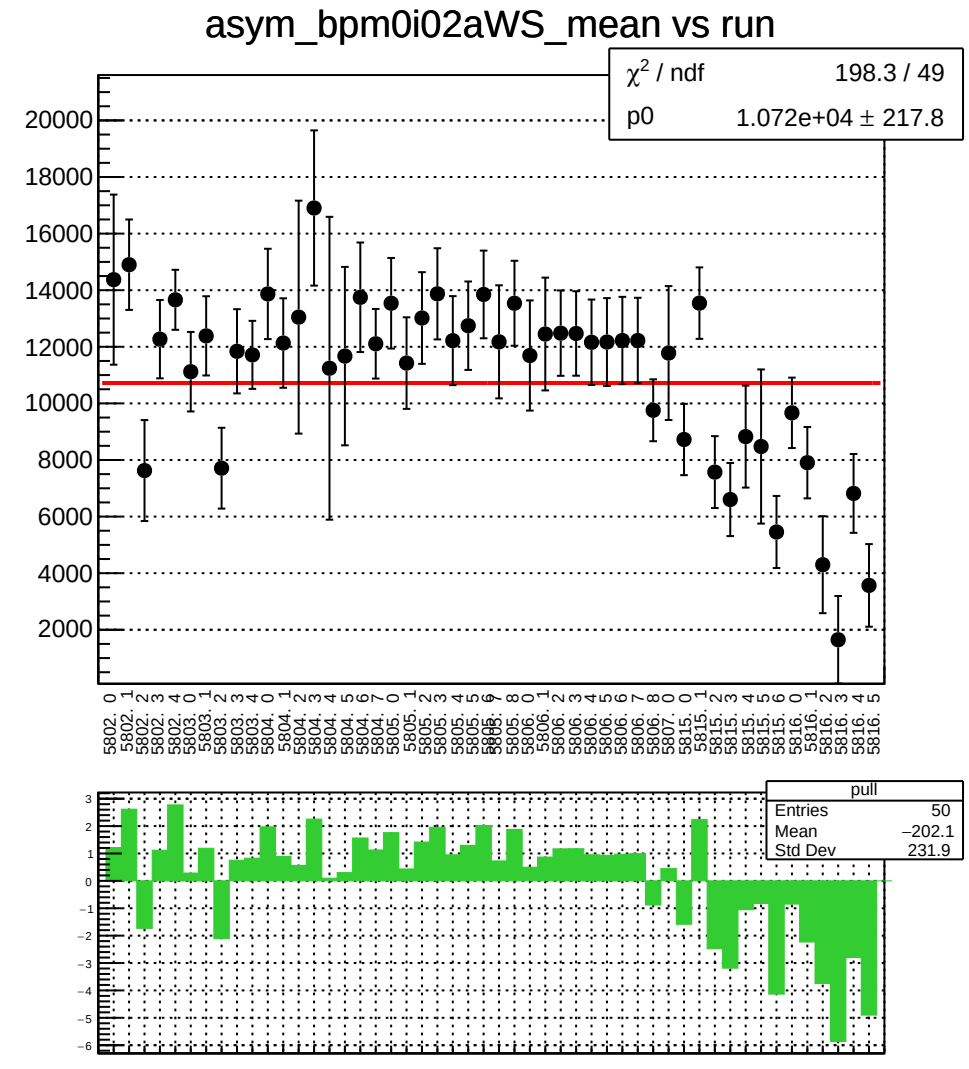
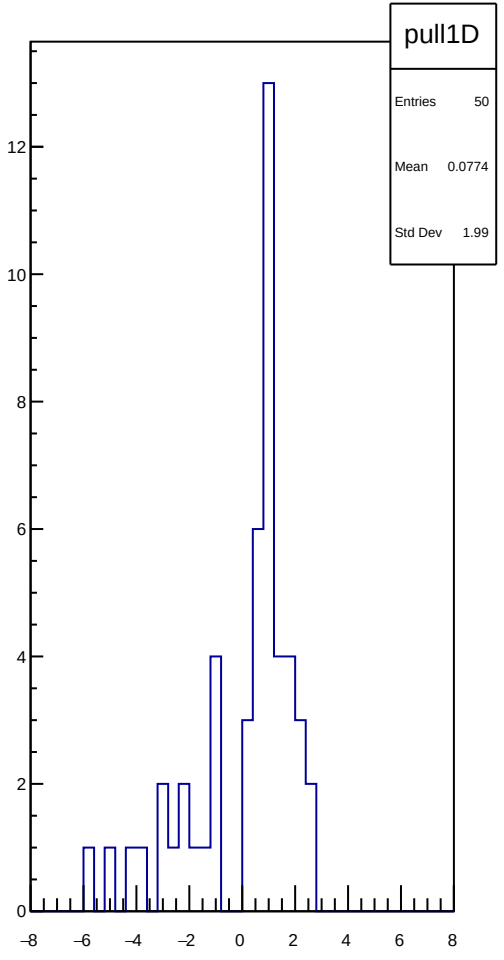
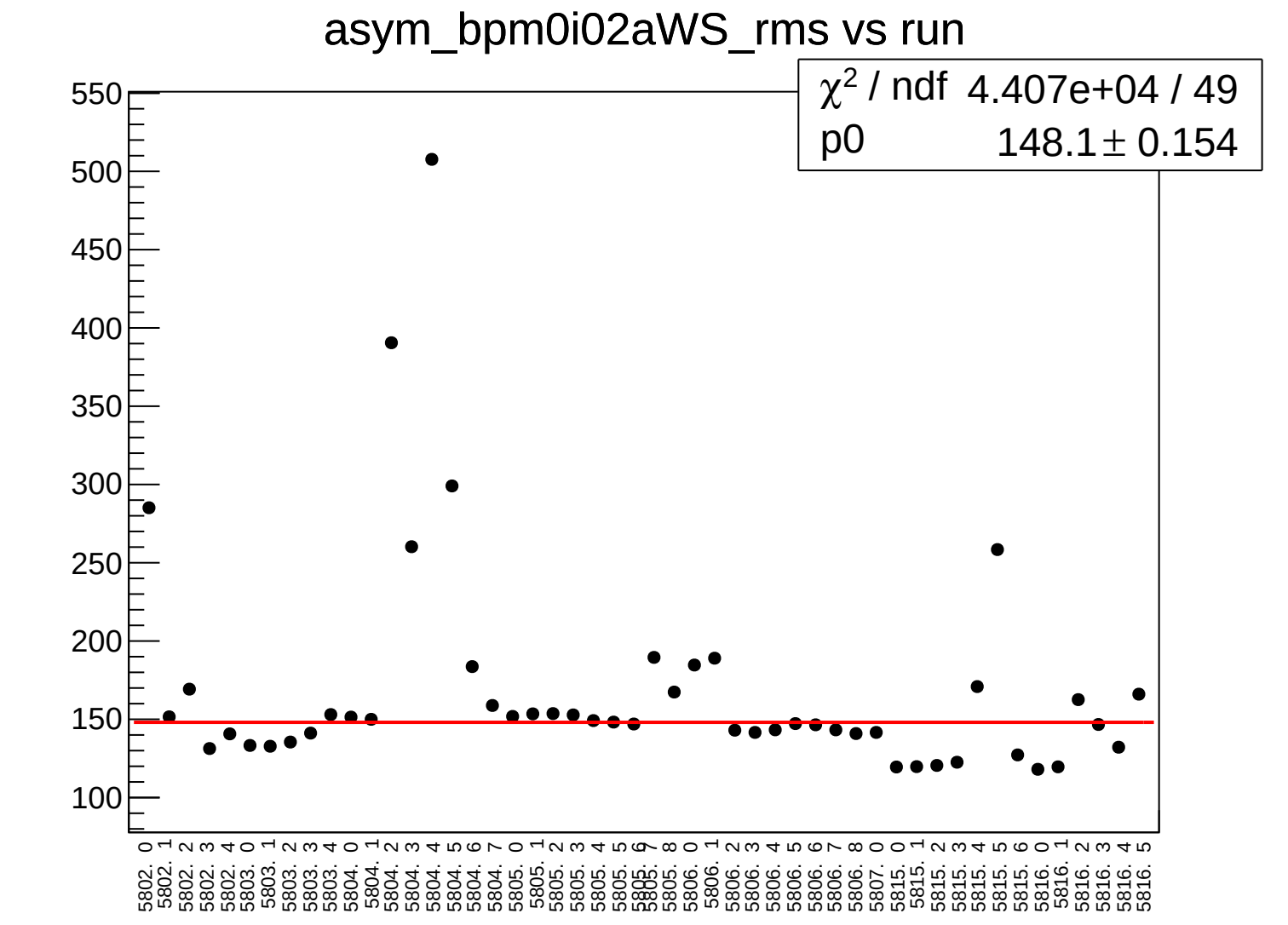
5816. 5


asym_bpm0i02aWS_mean vs run
χ² / ndf 198.3 / 49
p0 1.072e+04 ± 217.8
pull
Entries 50
Mean −202.1
Std Dev 231.9


pull1D
Entries 50
Mean 0.0774
Std Dev 1.99


asym_bpm0i02aWS_rms vs run
χ^2 / ndf 4.407e+04 / 49
p0 148.1 ± 0.154
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
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5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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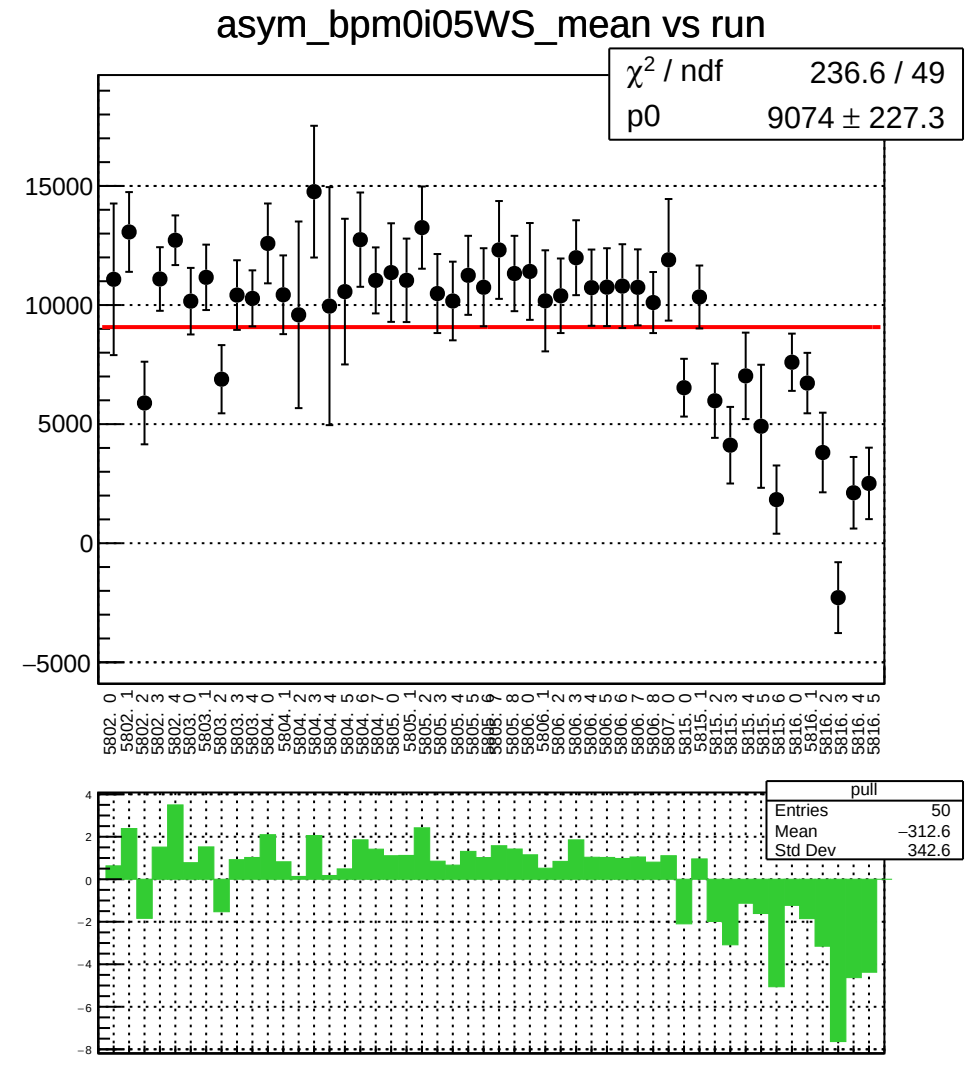
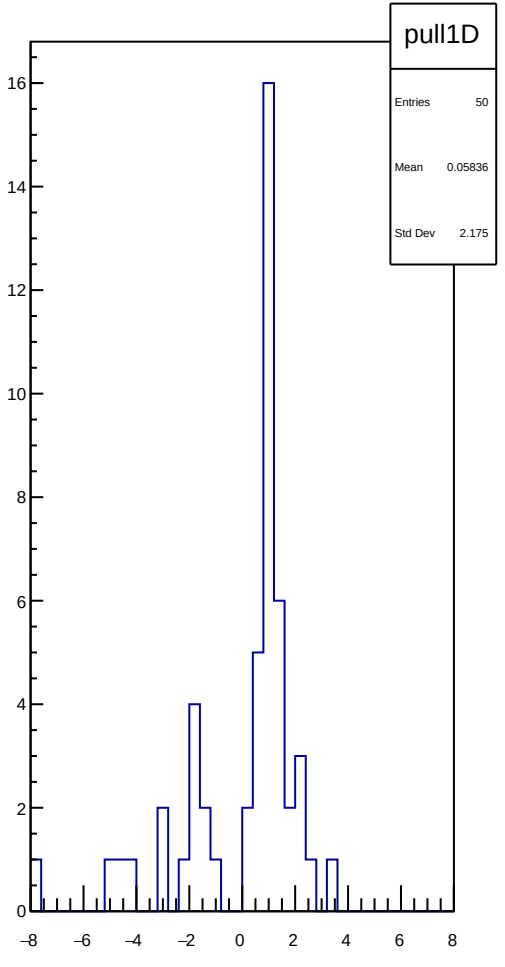
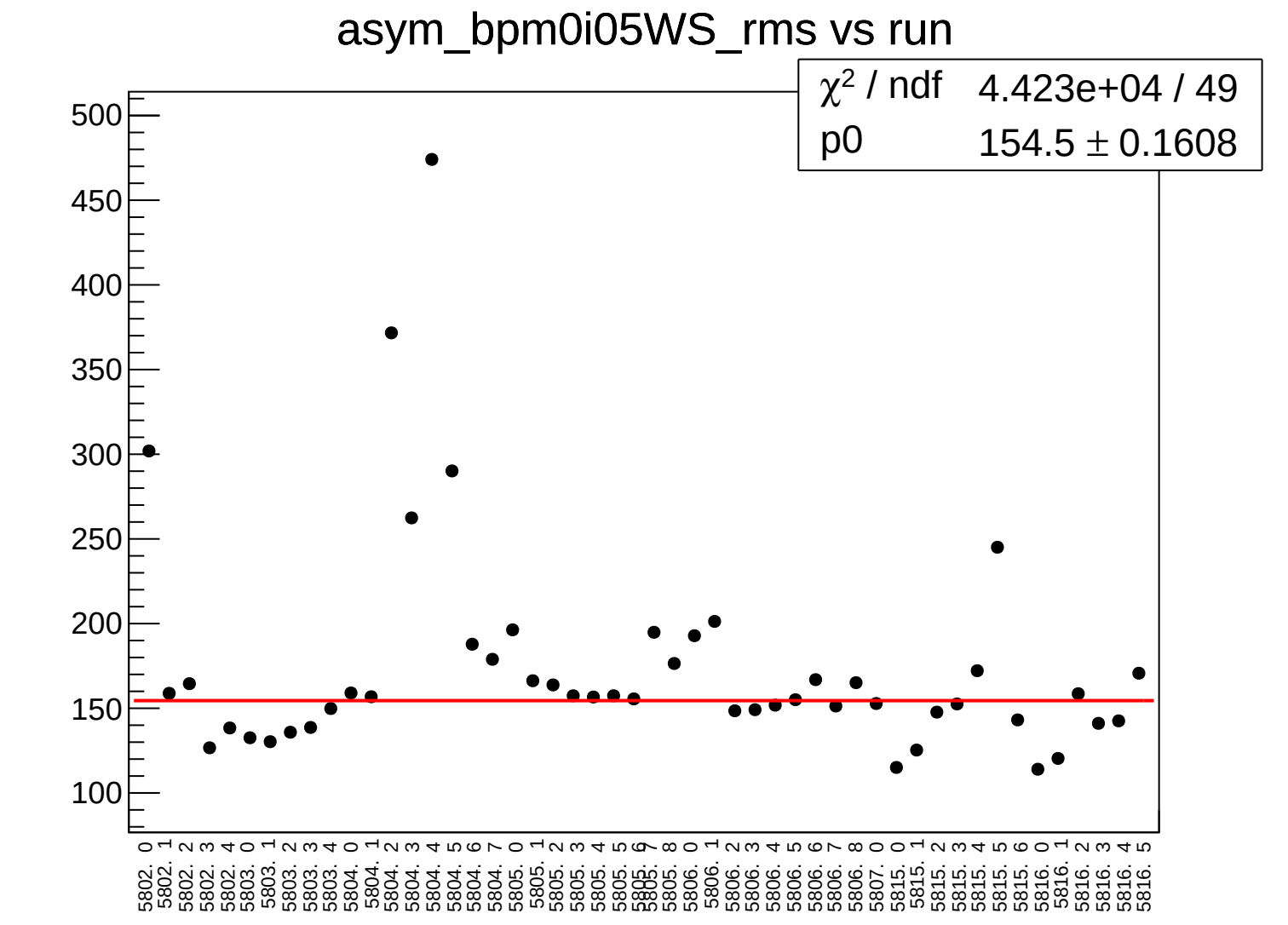
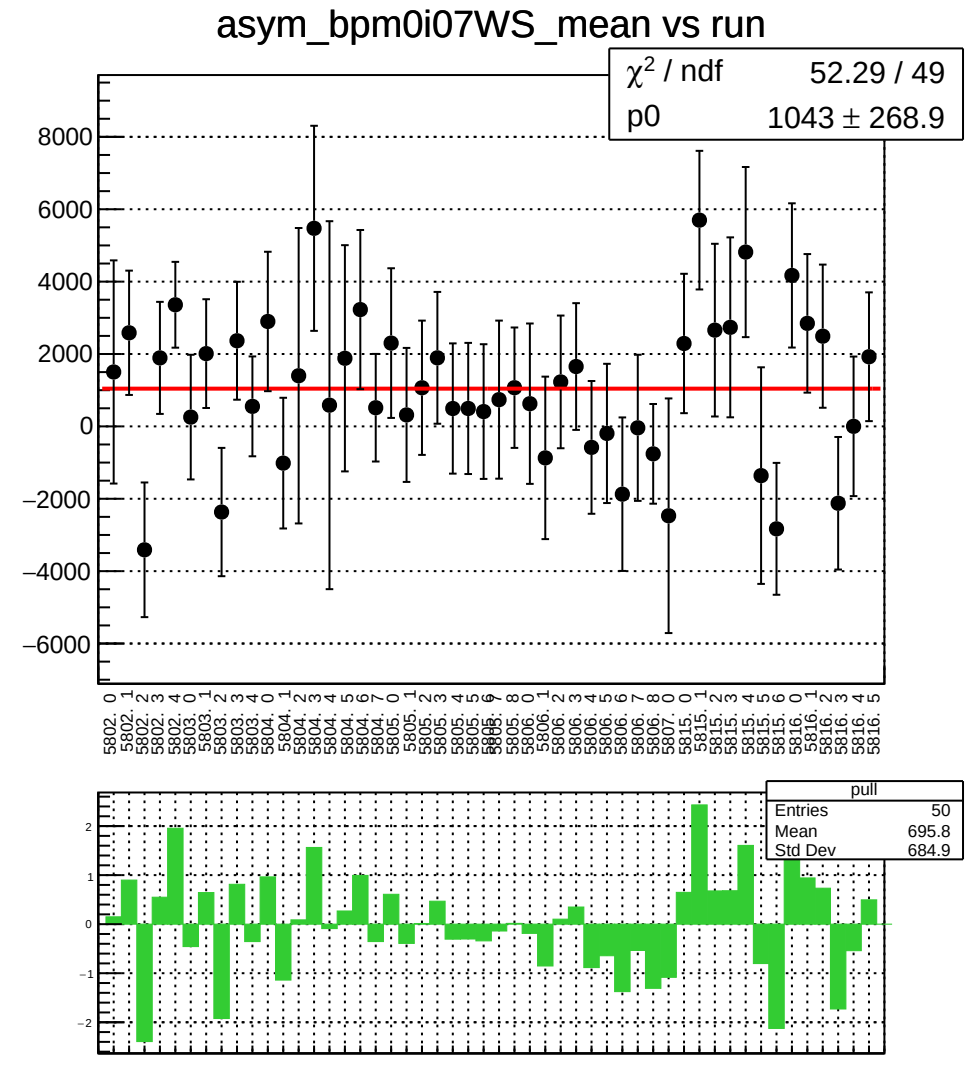
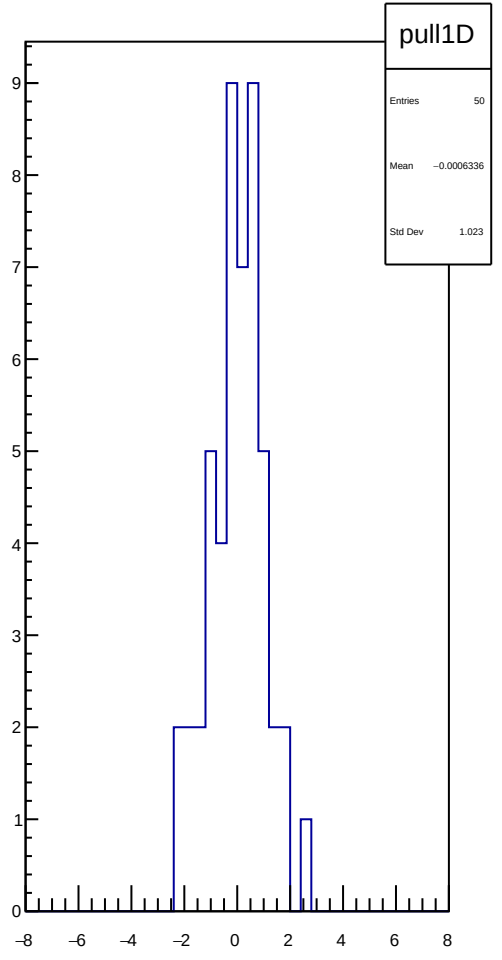
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

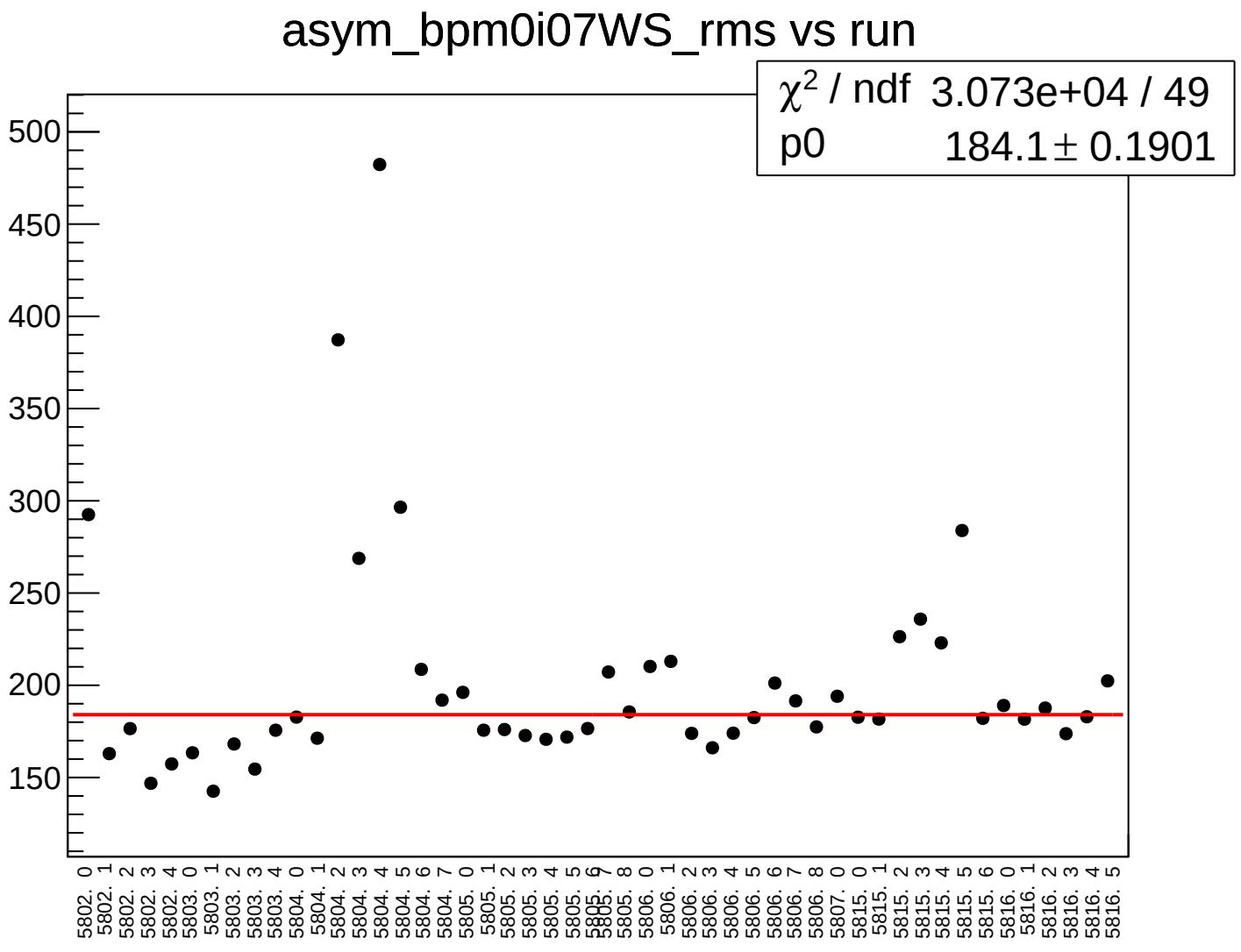

asym_bpm0i05WS_mean vs run
χ² / ndf 236.6 / 49
p0 9074 ± 227.3
15000
10000
5000
0
−5000
pull
Entries 50
Mean −312.6
Std Dev 342.6
4
2
0
−2
−4
−6
−8

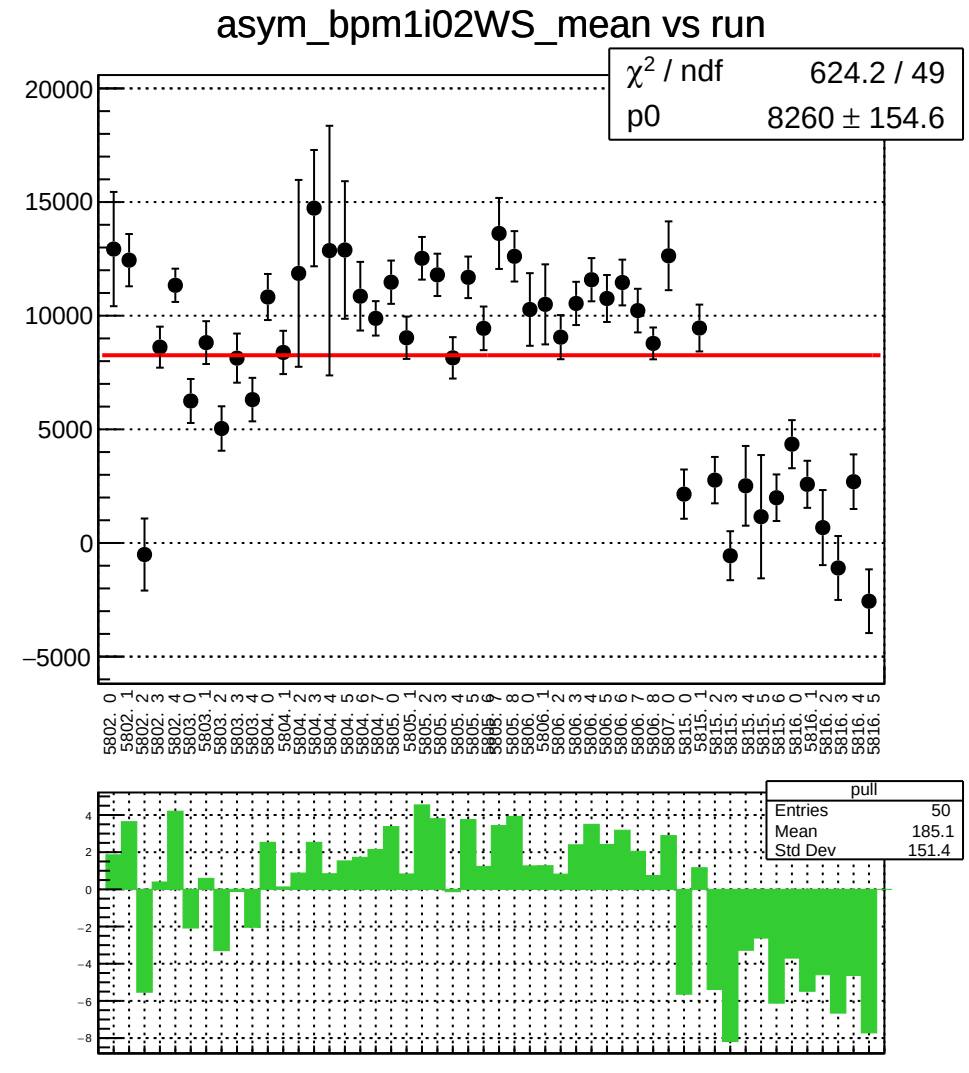

pull1D
Entries 50
Mean 0.05836
Std Dev 2.175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

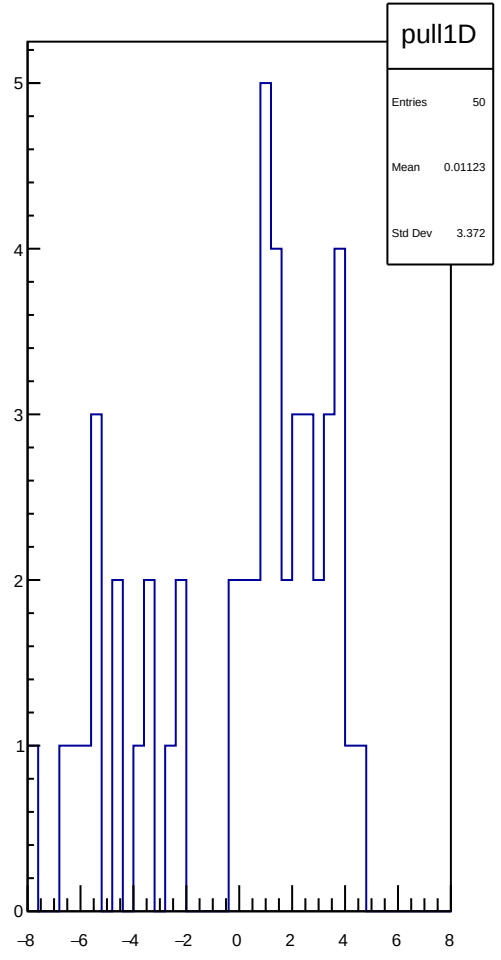

asym_bpm0i05WS_rms vs run
χ² / ndf 4.423e+04 / 49
p0 154.5 ± 0.1608
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

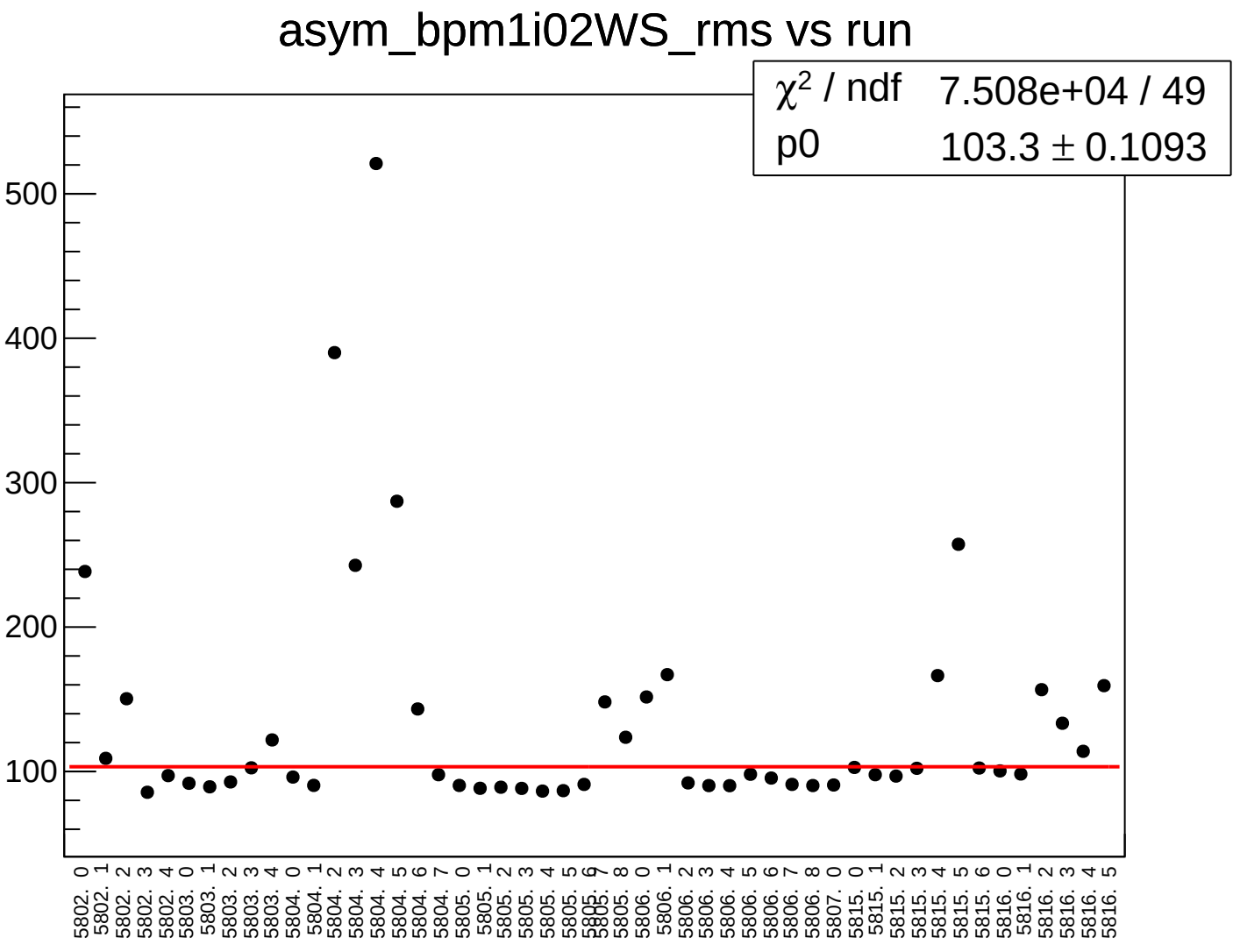

asym_bpm0i07WS_mean vs run
χ² / ndf 52.29 / 49
p0 1043 ± 268.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 695.8
Std Dev 684.9
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.0006336
Std Dev 1.023
9
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 3.073e+04 / 49
p0 184.1 ± 0.1901
500
450
400
350
300
250
200
150
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm1i02WS_mean vs run
χ² / ndf 624.2 / 49
p0 8260 ± 154.6
pull
Entries 50
Mean 185.1
Std Dev 151.4


pull1D
Entries 50
Mean 0.01123
Std Dev 3.372


asym_bpm1i02WS_rms vs run
χ² / ndf 7.508e+04 / 49
p0 103.3 ± 0.1093
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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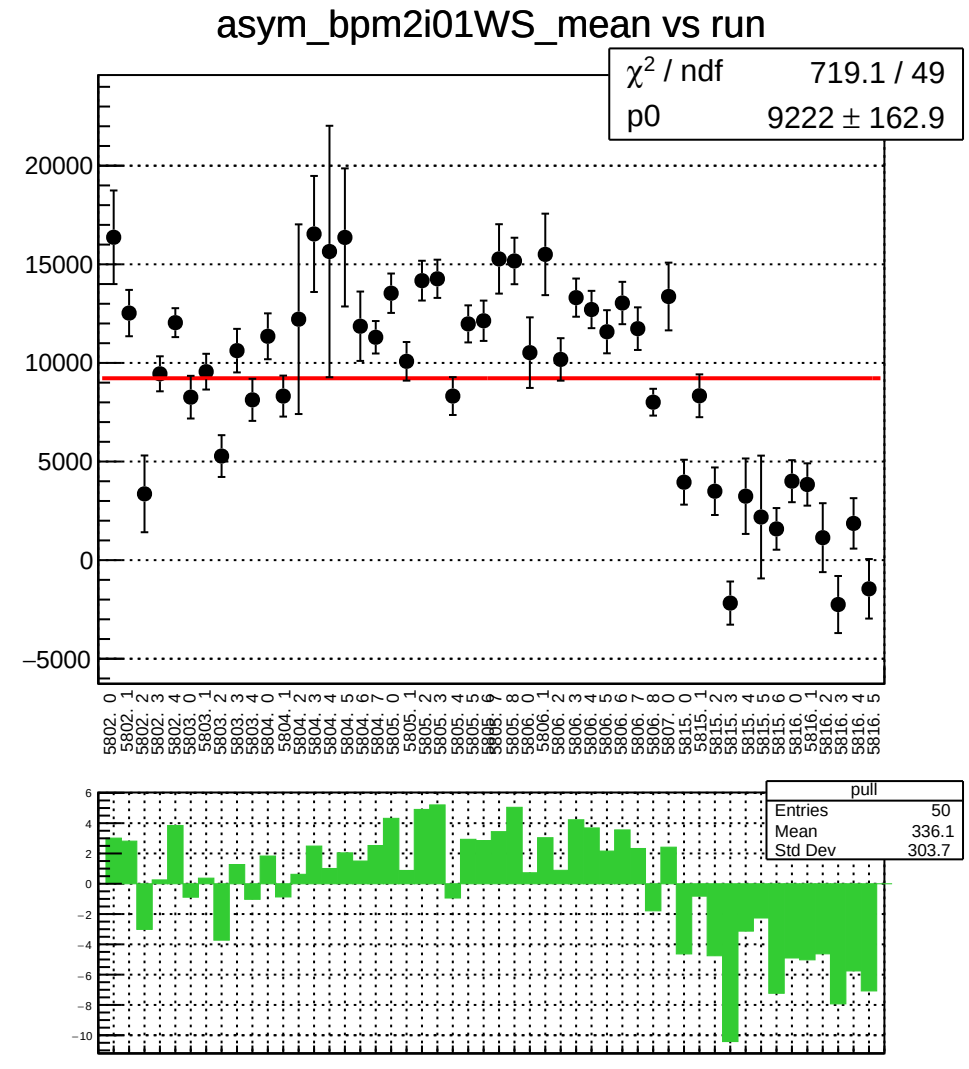
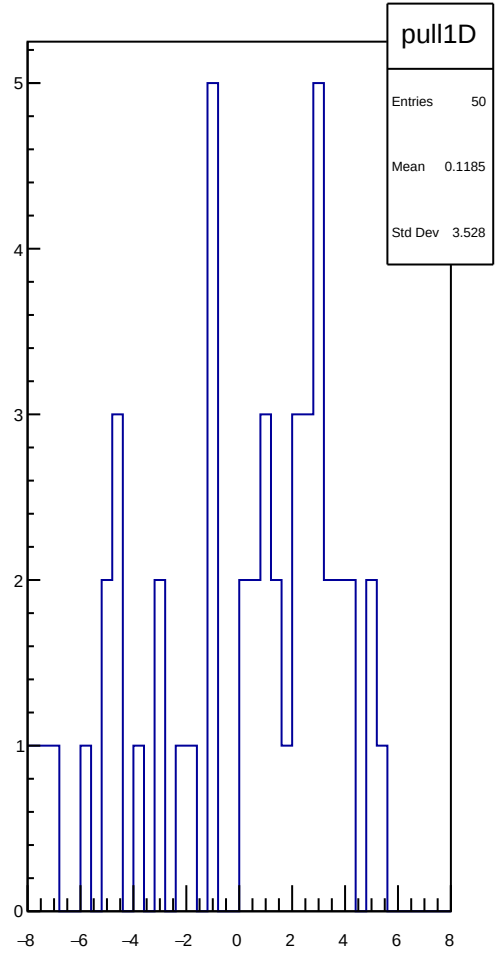
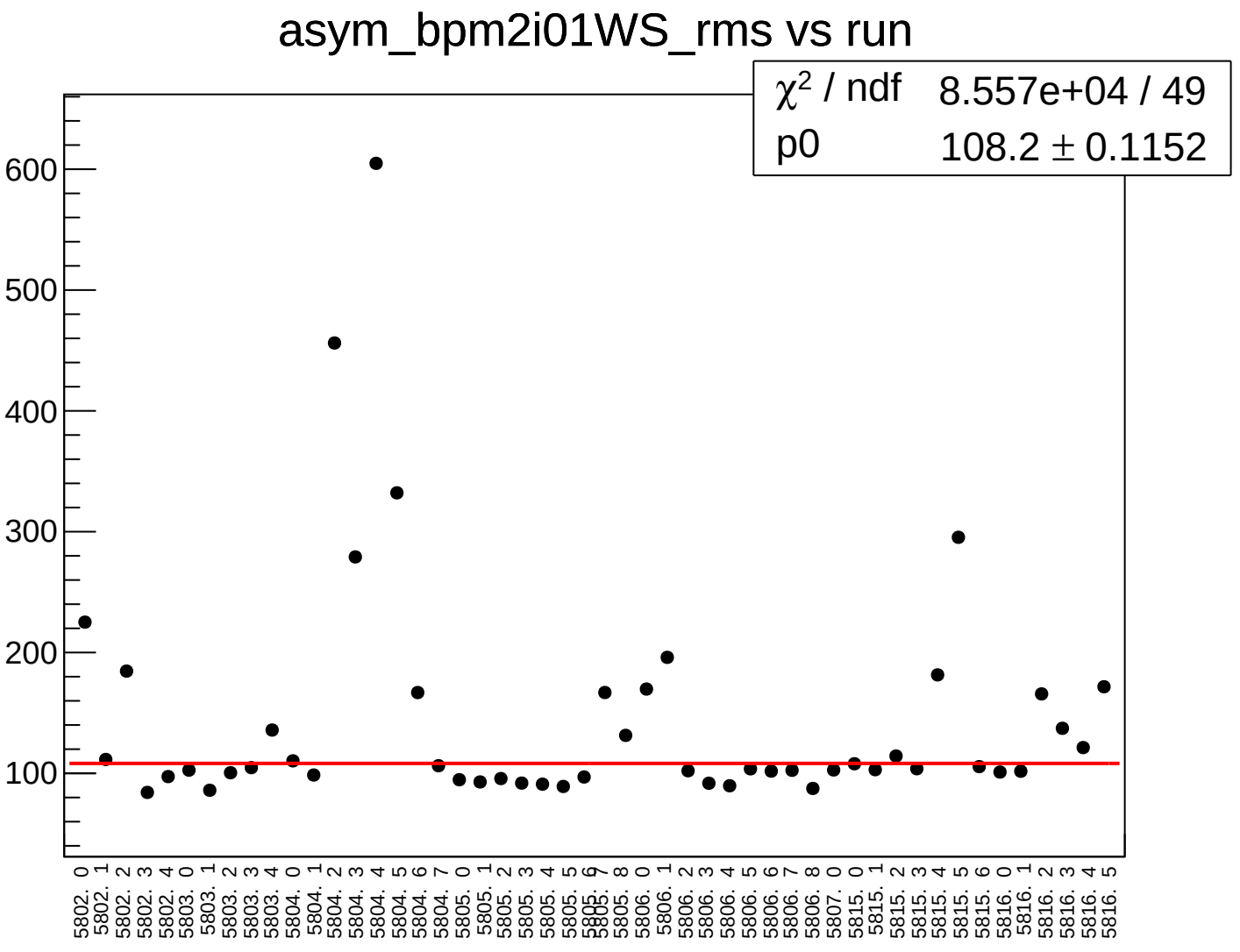
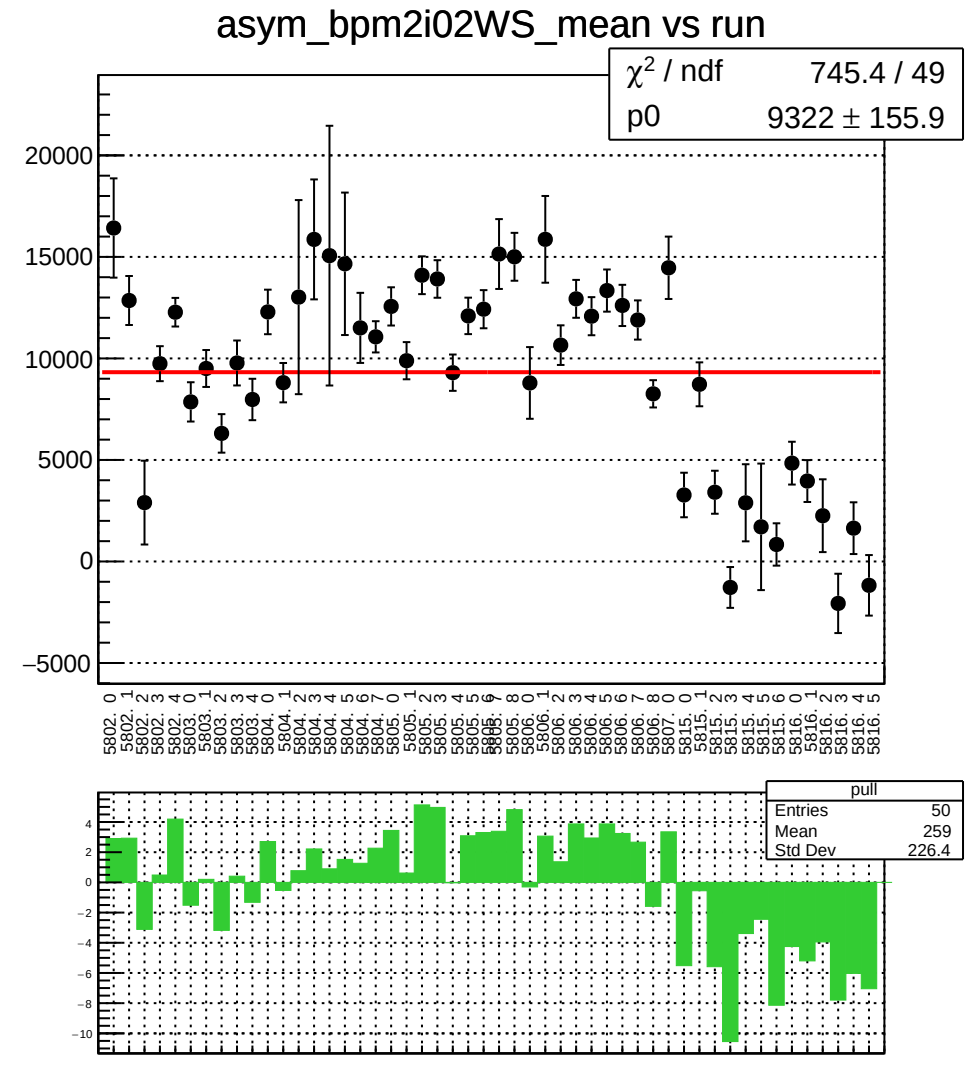
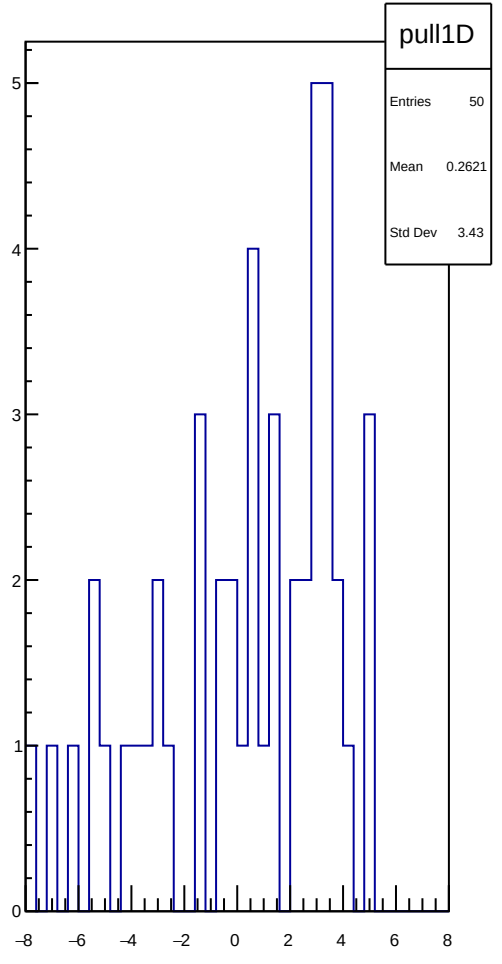
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

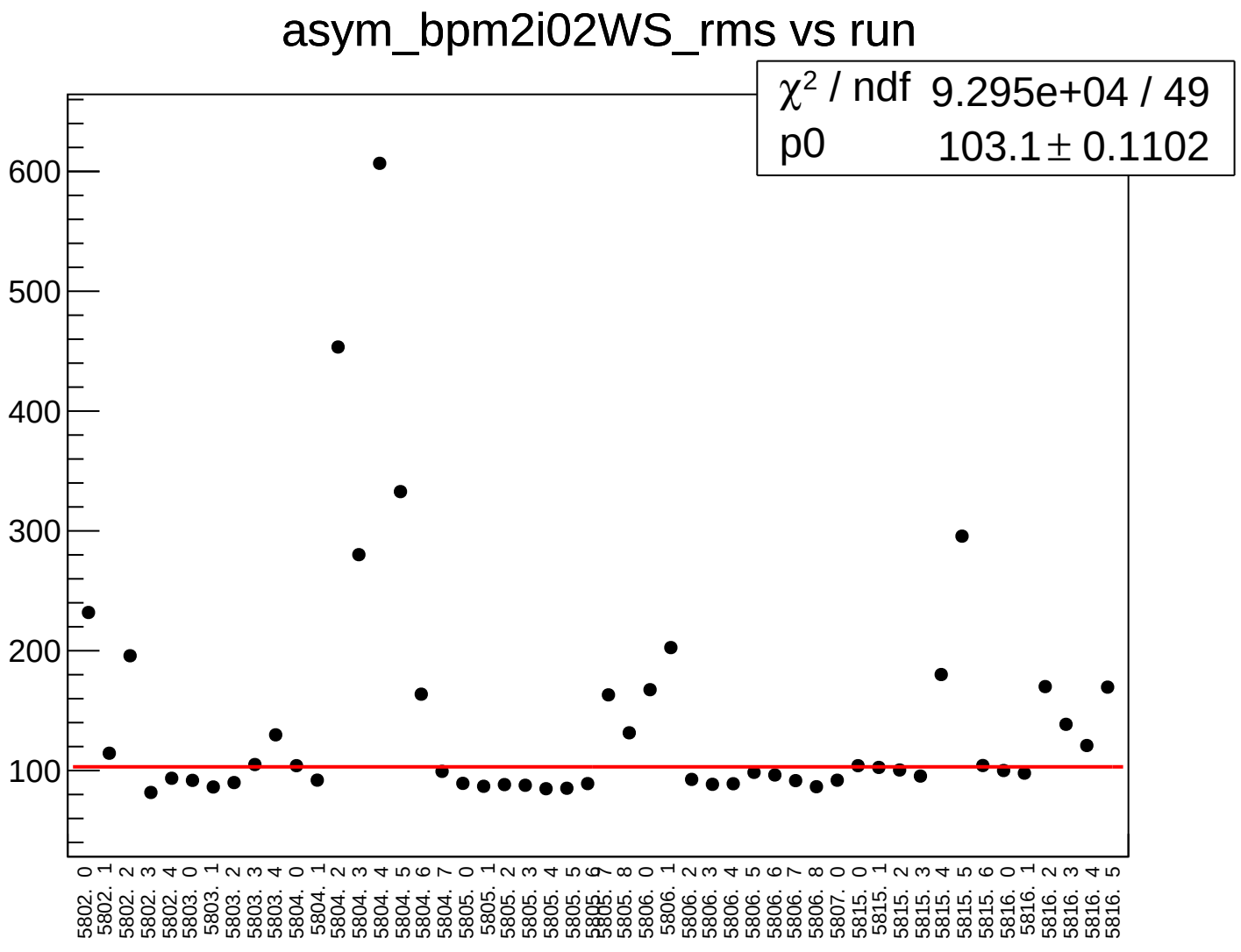

asym_bpm2i01WS_mean vs run
χ² / ndf 719.1 / 49
p0 9222 ± 162.9
20000
15000
10000
5000
0
−5000
pull
Entries 50
Mean 336.1
Std Dev 303.7
6
4
2
0
−2
−4
−6
−8
−10


pull1D
Entries 50
Mean 0.1185
Std Dev 3.528
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
χ² / ndf 8.557e+04 / 49
p0 108.2 ± 0.1152
600
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm2i02WS_mean vs run
χ² / ndf 745.4 / 49
p0 9322 ± 155.9
20000
15000
10000
5000
0
−5000
pull
Entries 50
Mean 259
Std Dev 226.4
4
2
0
−2
−4
−6
−8
−10


pull1D
Entries 50
Mean 0.2621
Std Dev 3.43
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i02WS_rms vs run
χ² / ndf 9.295e+04 / 49
p0 103.1 ± 0.1102
600
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
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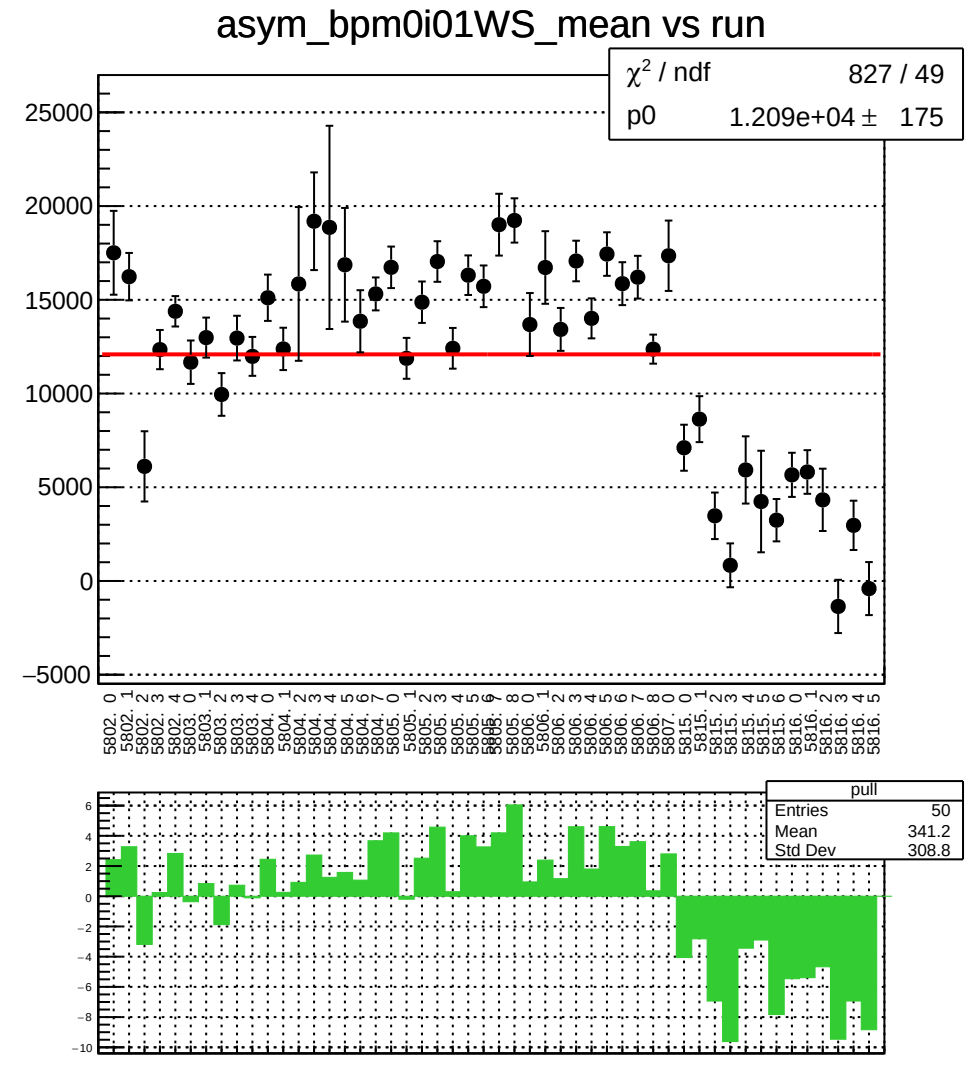
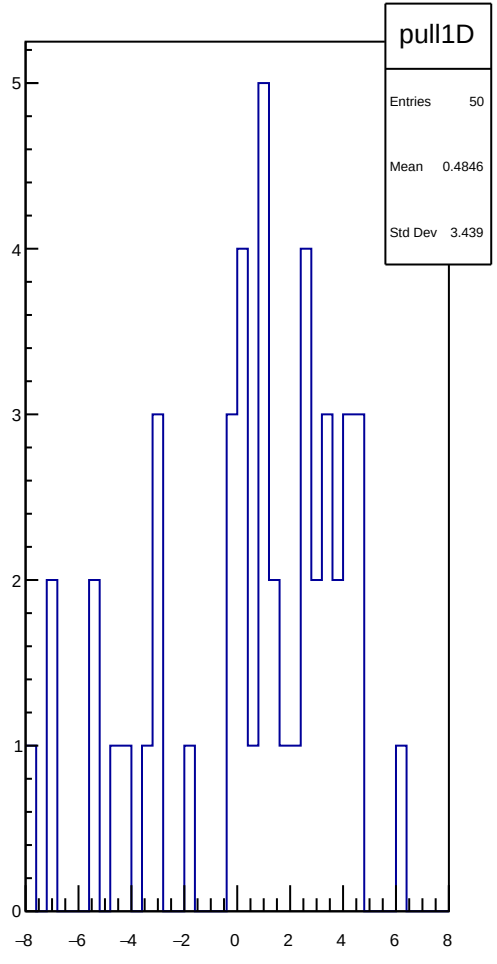
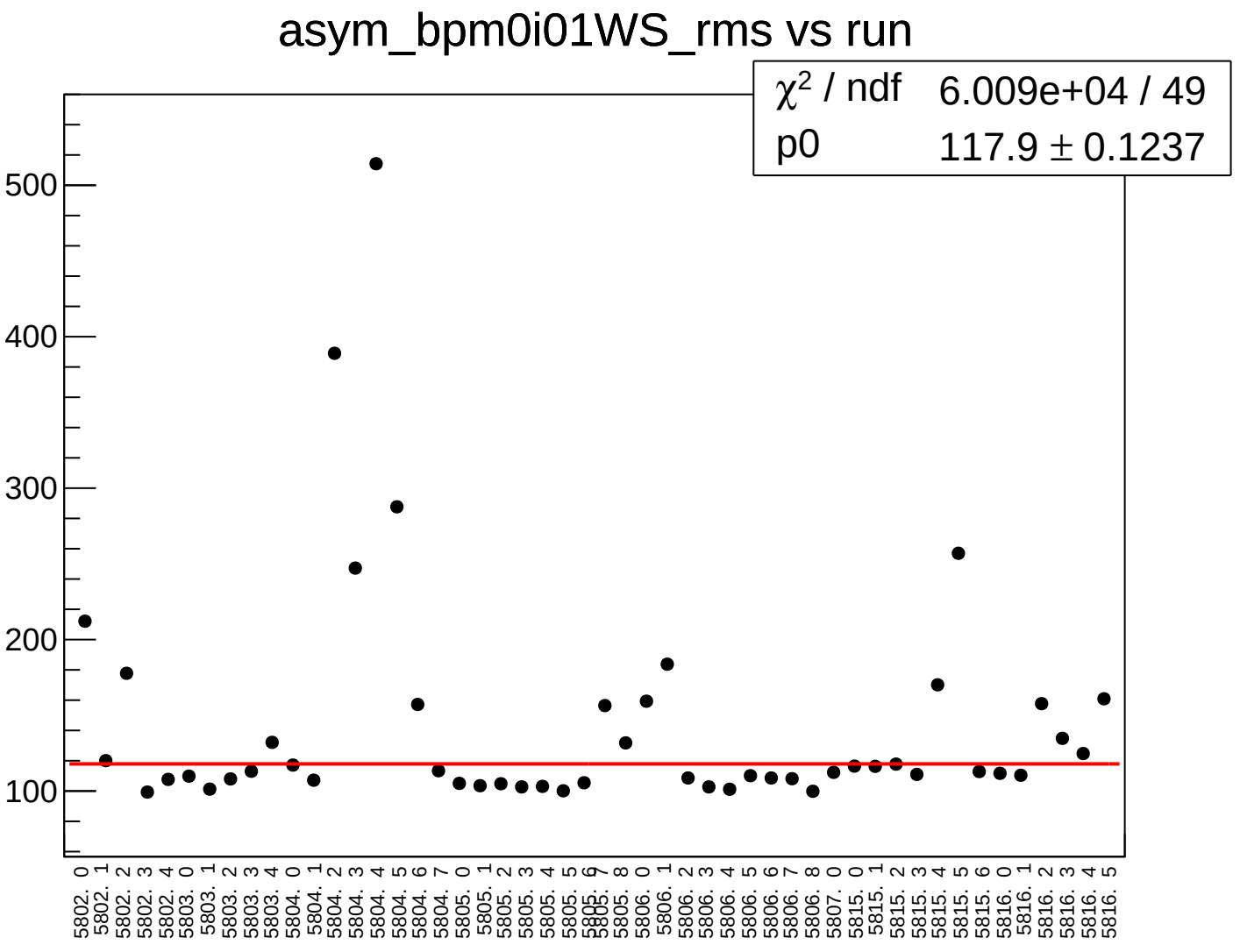
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0i01WS_mean vs run
χ² / ndf 827 / 49
p0 1.209e+04 ± 175
pull
Entries 50
Mean 341.2
Std Dev 308.8


pull1D
Entries 50
Mean 0.4846
Std Dev 3.439


asym_bpm0i01WS_rms vs run
χ² / ndf 6.009e+04 / 49
p0 117.9 ± 0.1237
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 5
5815. 6
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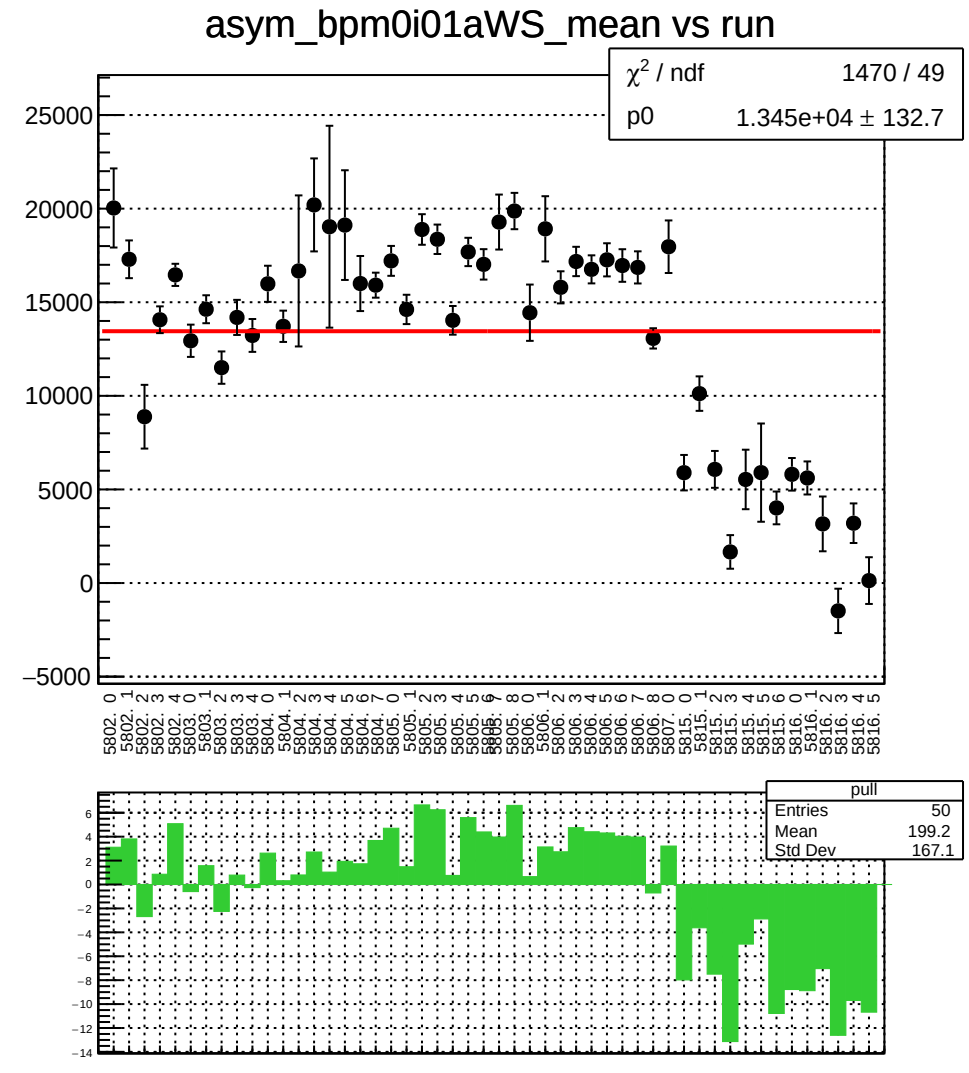
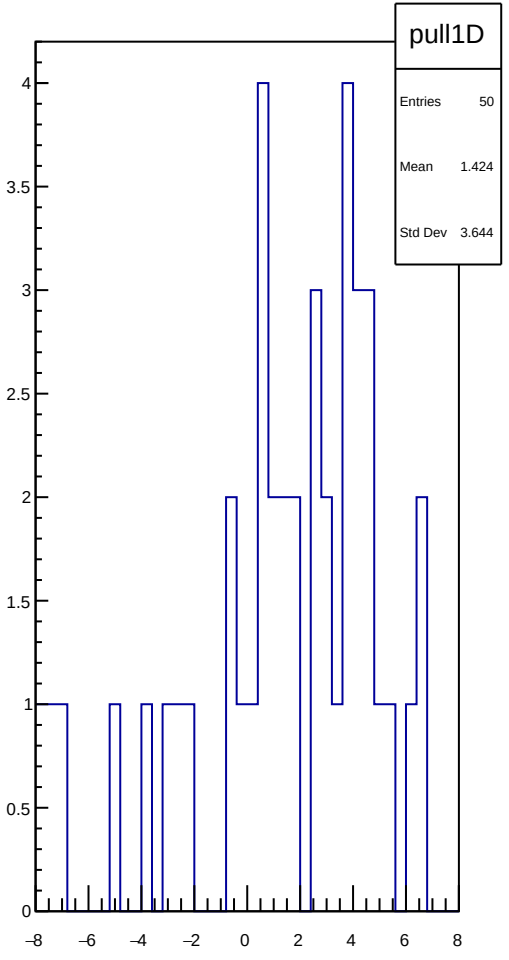
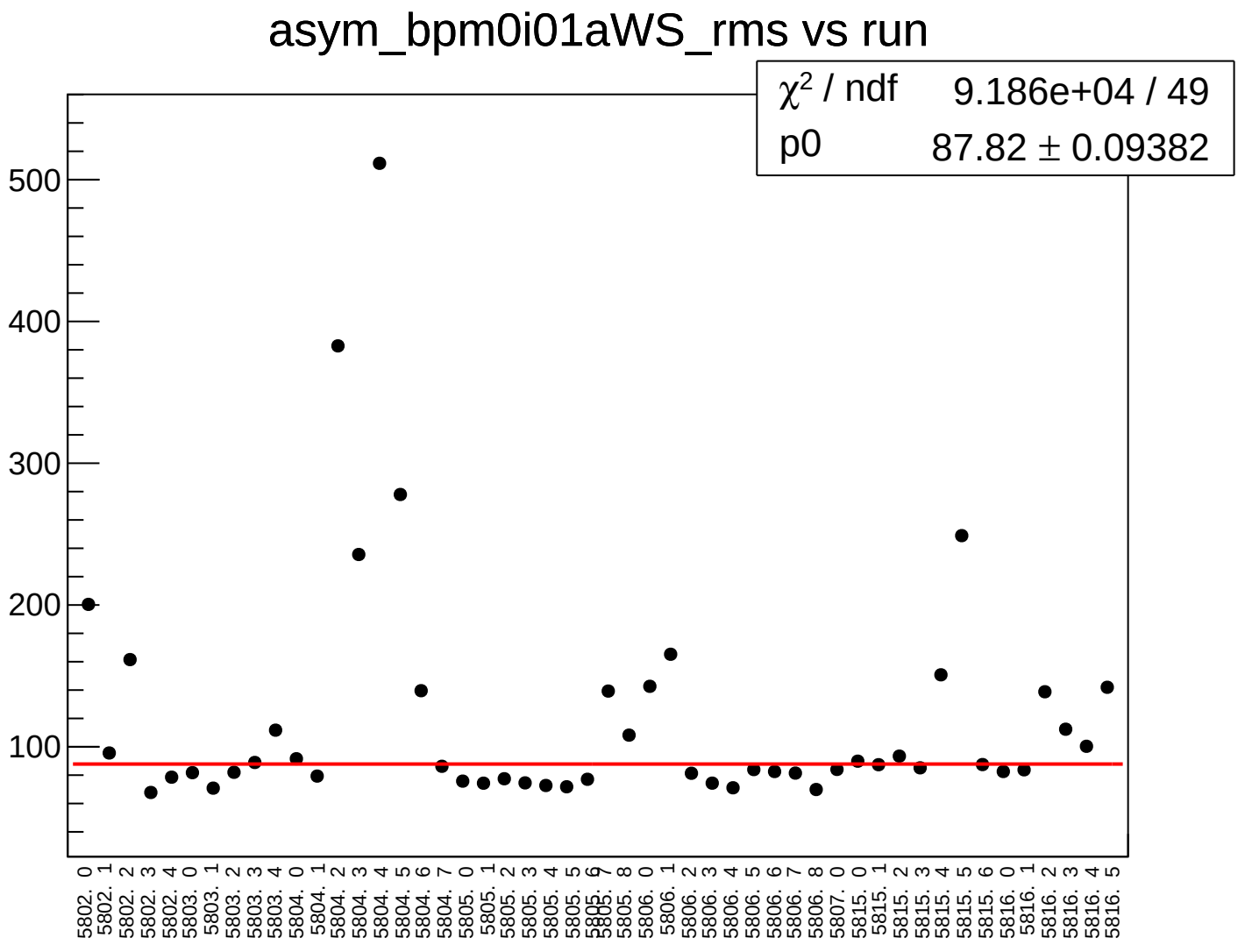
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0i01aWS_mean vs run
χ² / ndf 1470 / 49
p0 1.345e+04 ± 132.7
pull
Entries 50
Mean 199.2
Std Dev 167.1


pull1D
Entries 50
Mean 1.424
Std Dev 3.644


asym_bpm0i01aWS_rms vs run
χ^2 / ndf 9.186e+04 / 49
p0 87.82 ± 0.09382
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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5815. 6
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5816. 2
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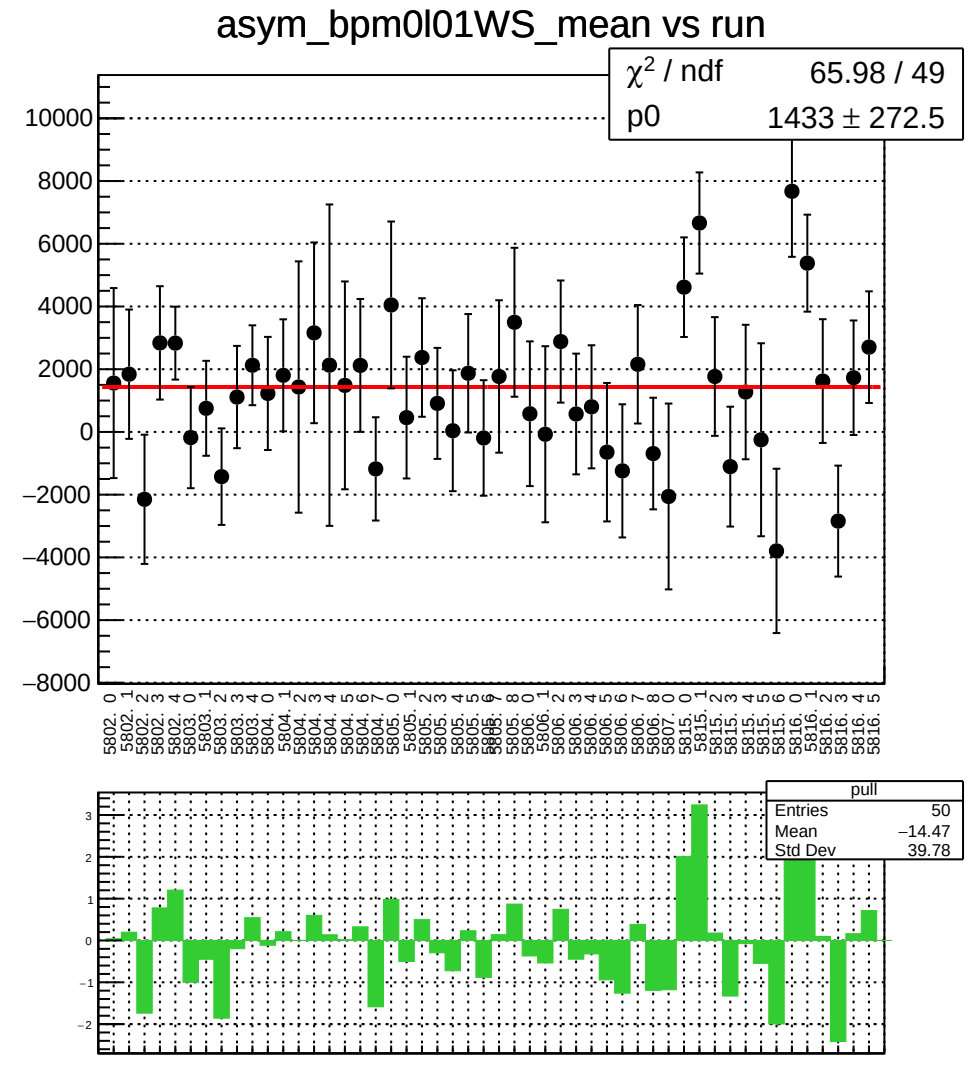
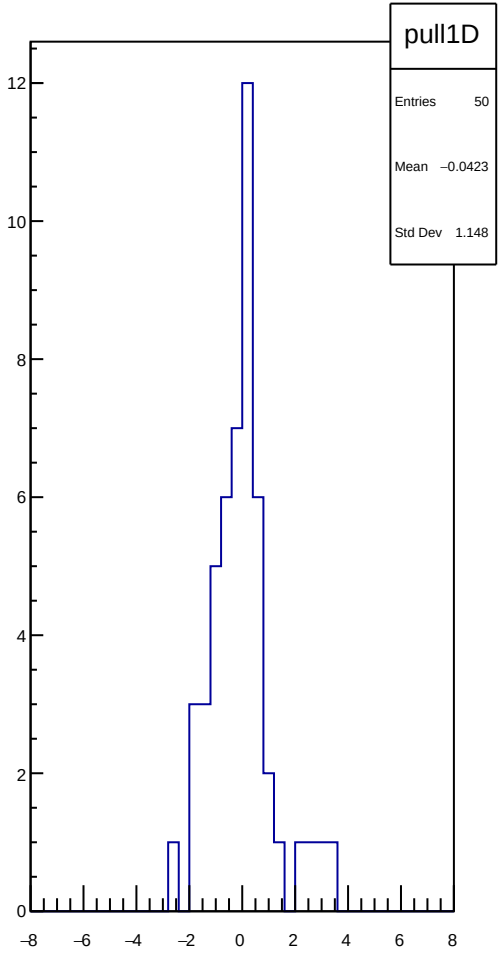
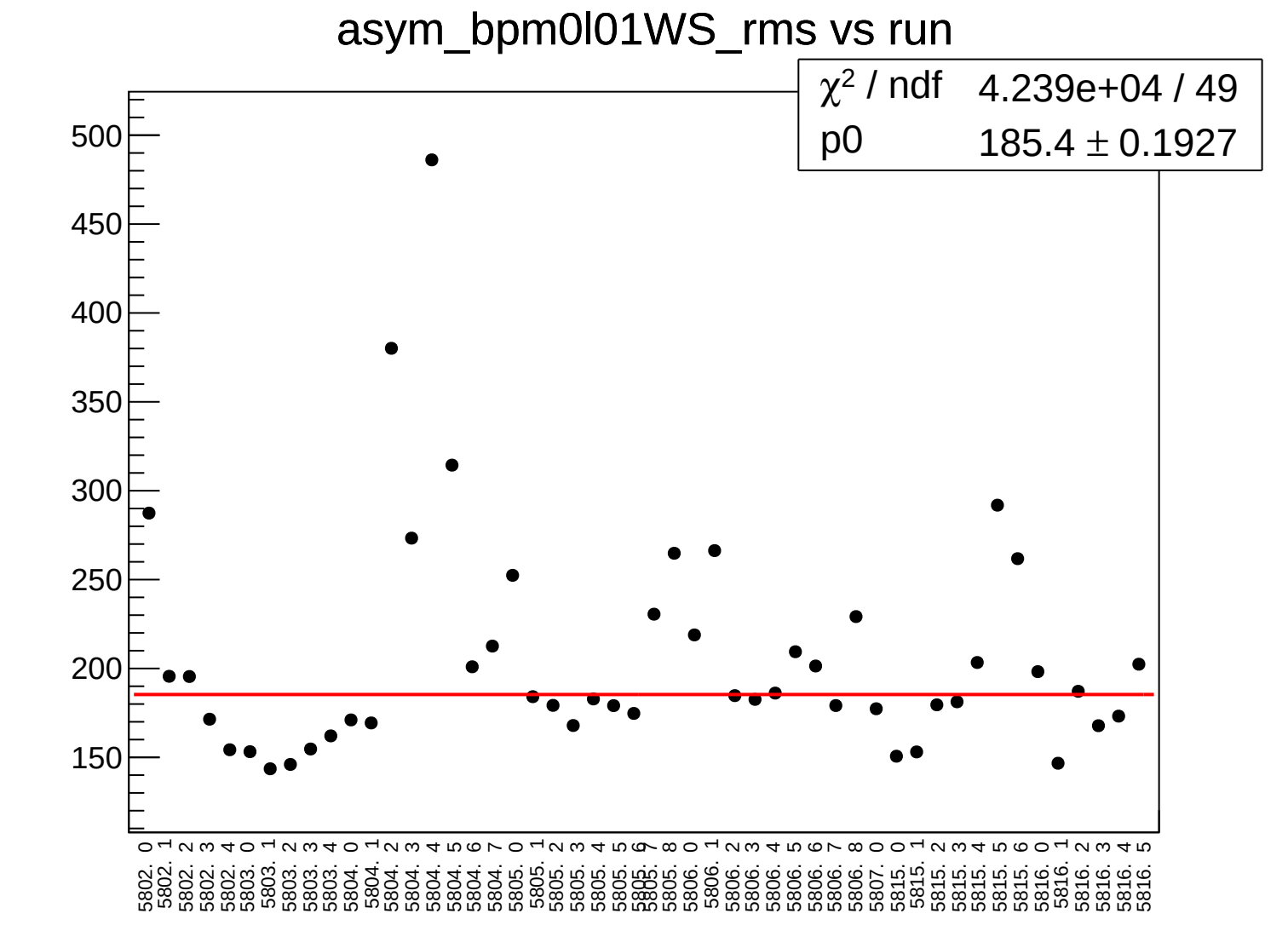
5816. 4
5816. 5


asym_bpm0l01WS_mean vs run
χ² / ndf 65.98 / 49
p0 1433 ± 272.5
pull
Entries 50
Mean −14.47
Std Dev 39.78


pull1D
Entries 50
Mean −0.0423
Std Dev 1.148


asym_bpm0l01WS_rms vs run
χ² / ndf 4.239e+04 / 49
p0 185.4 ± 0.1927
500
450
400
350
300
250
200
150
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 4
5804. 0
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5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
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5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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5816. 2
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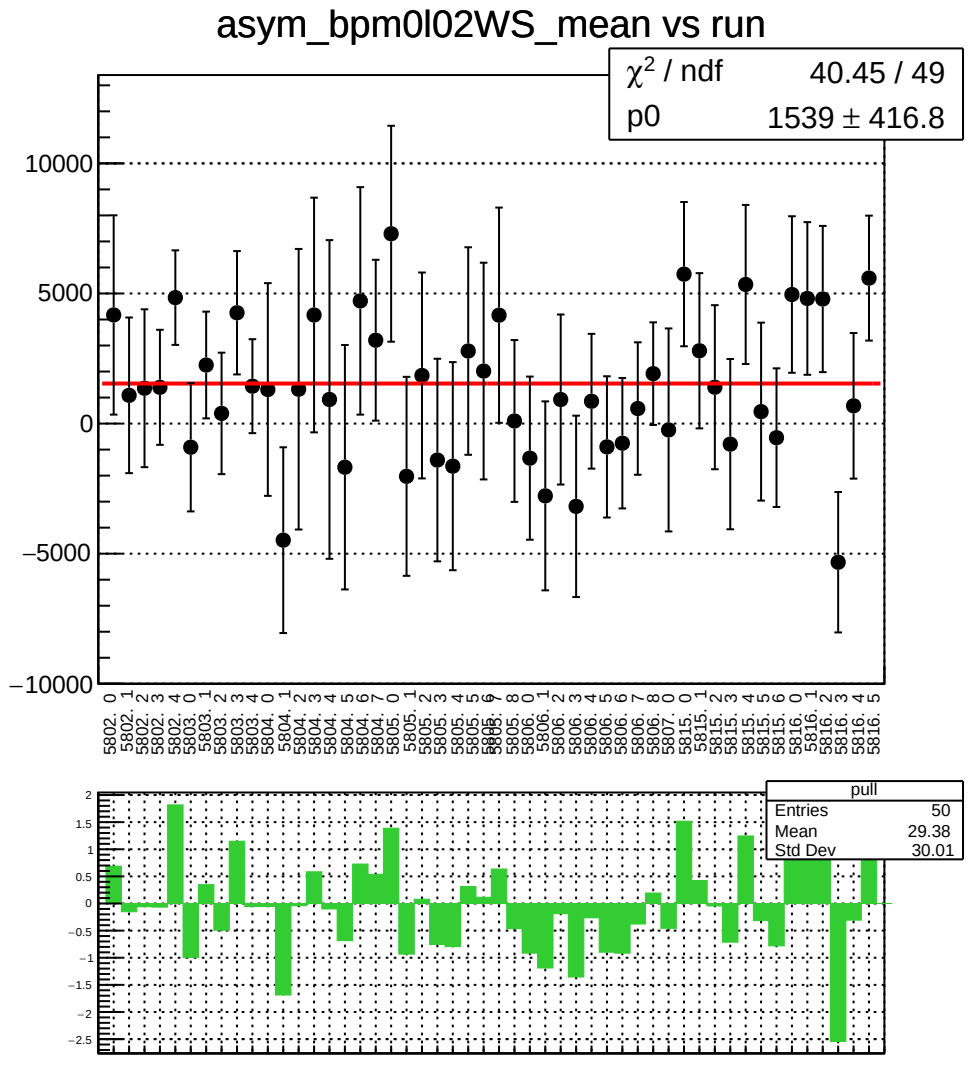
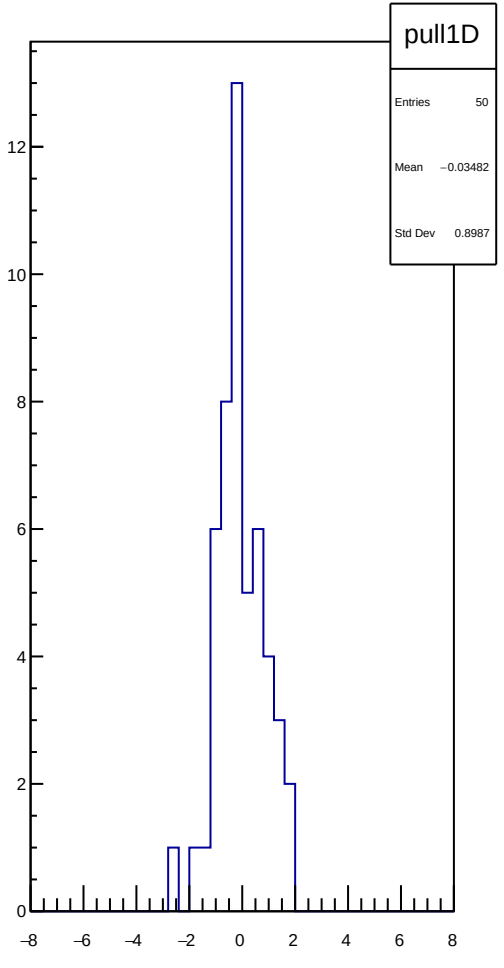
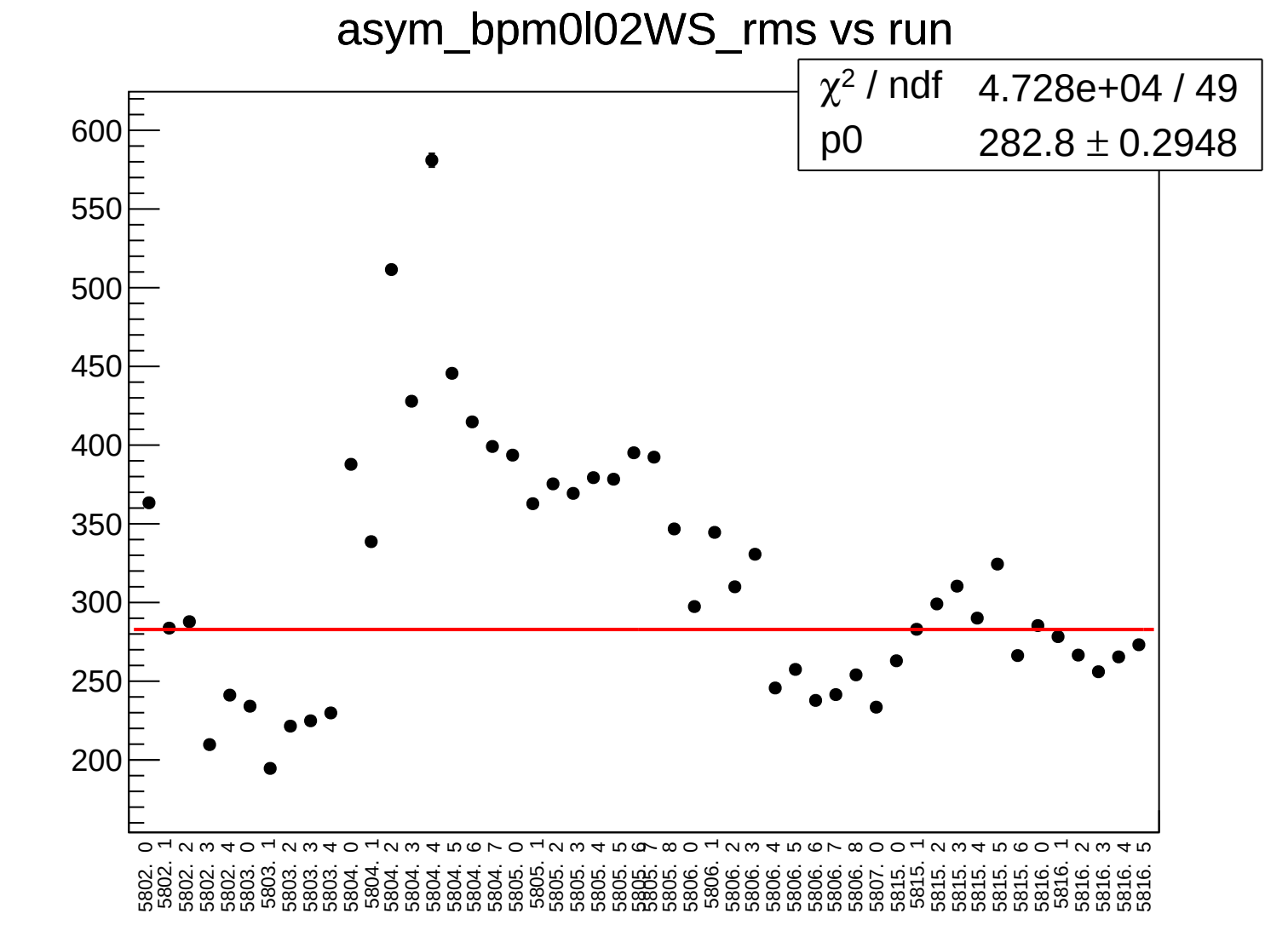
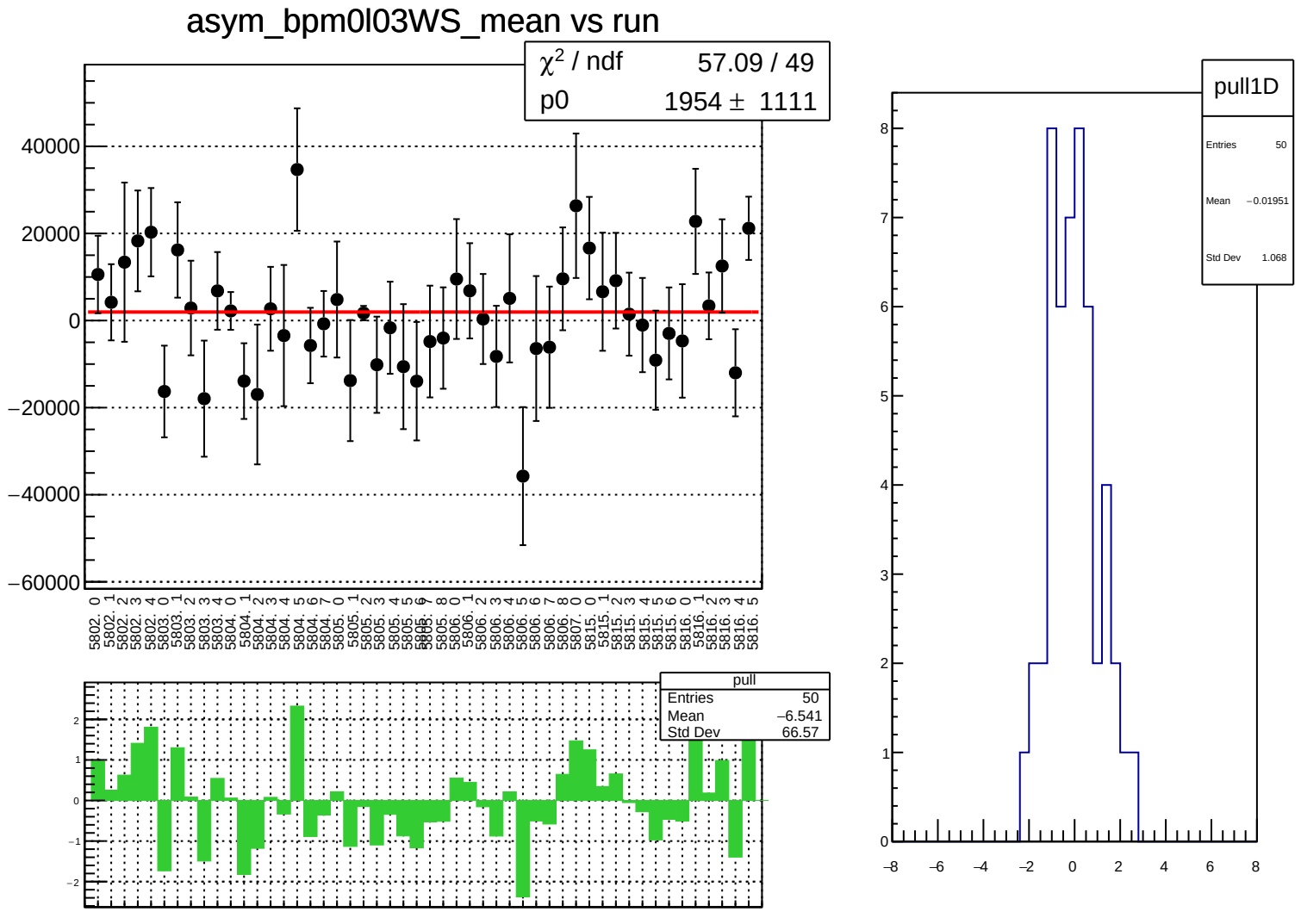
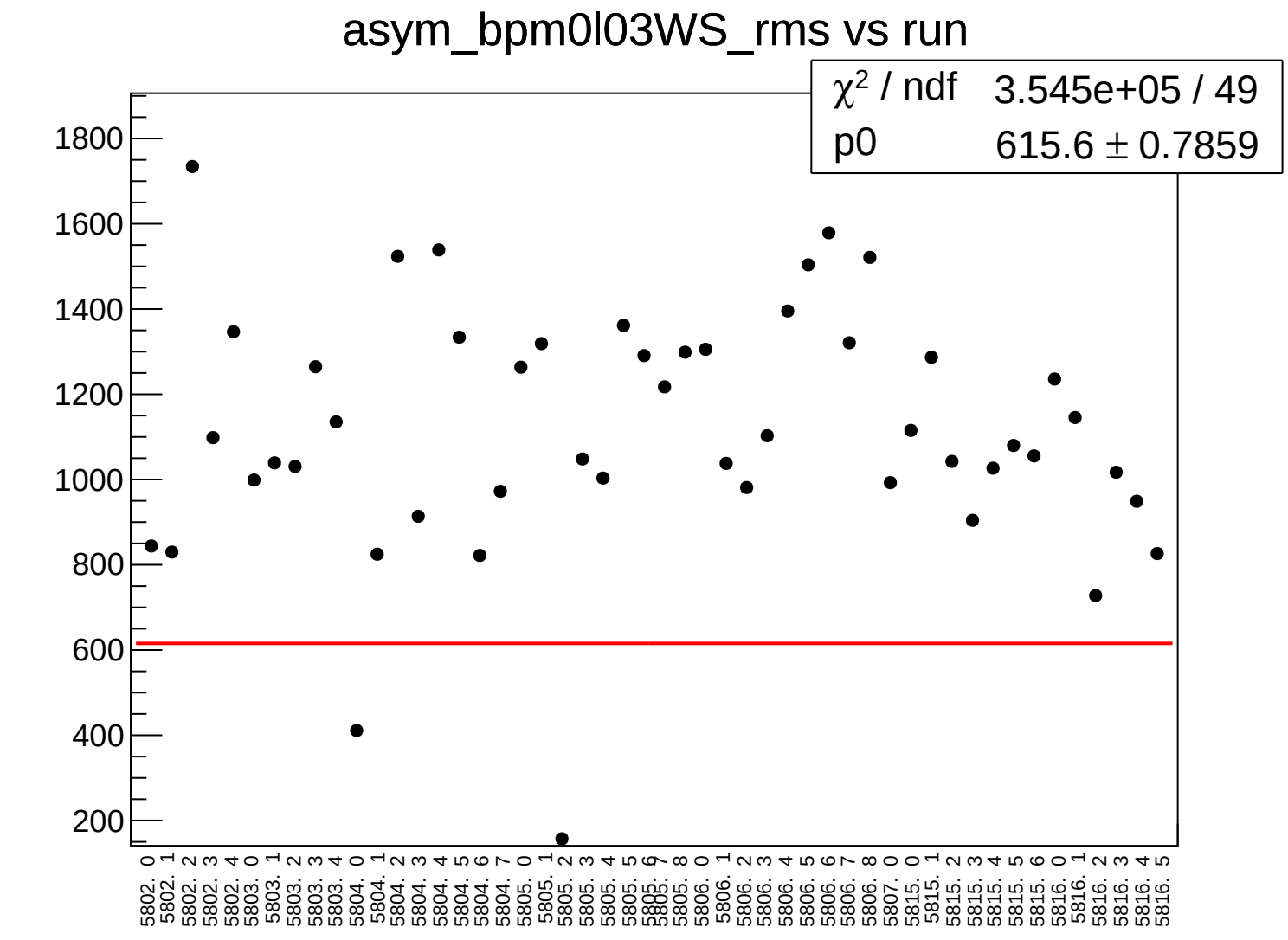
5816. 5

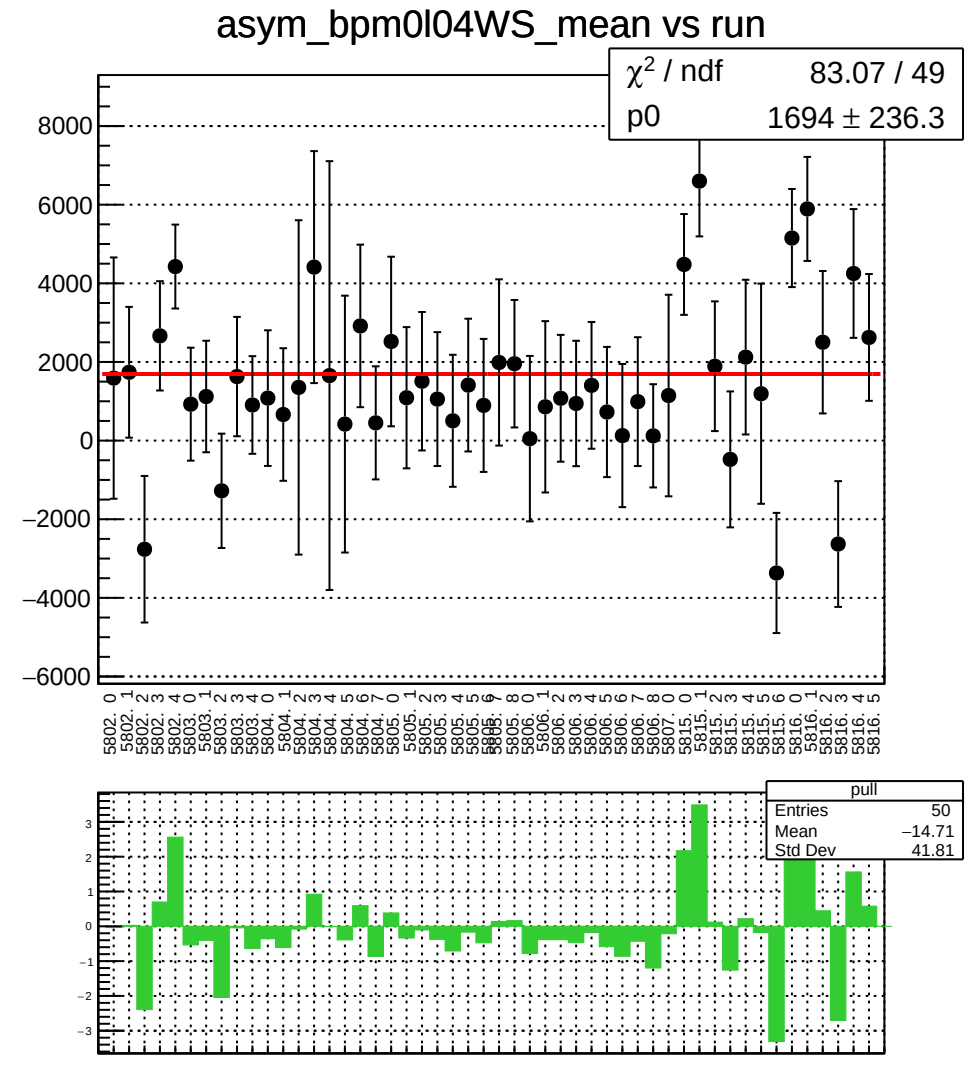

asym_bpm0l02WS_mean vs run
χ² / ndf 40.45 / 49
p0 1539 ± 416.8
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 29.38
Std Dev 30.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

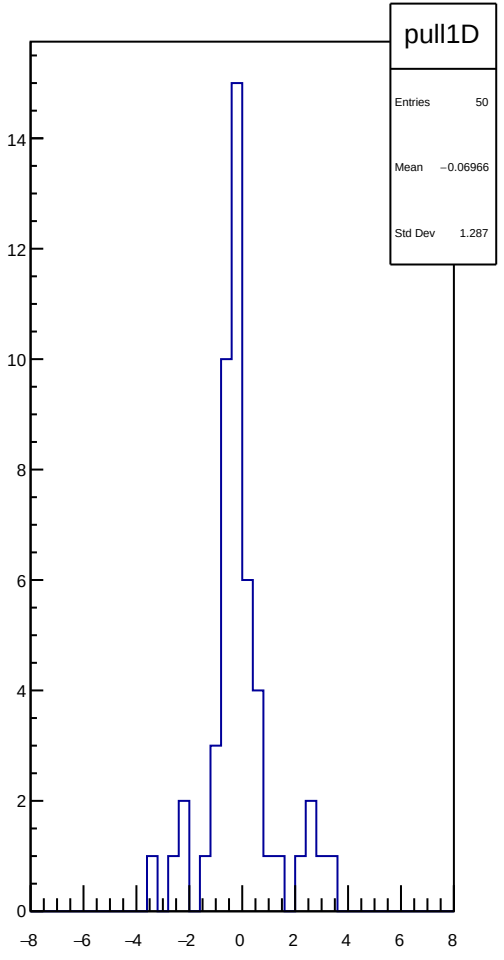

pull1D
Entries 50
Mean −0.03482
Std Dev 0.8987
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

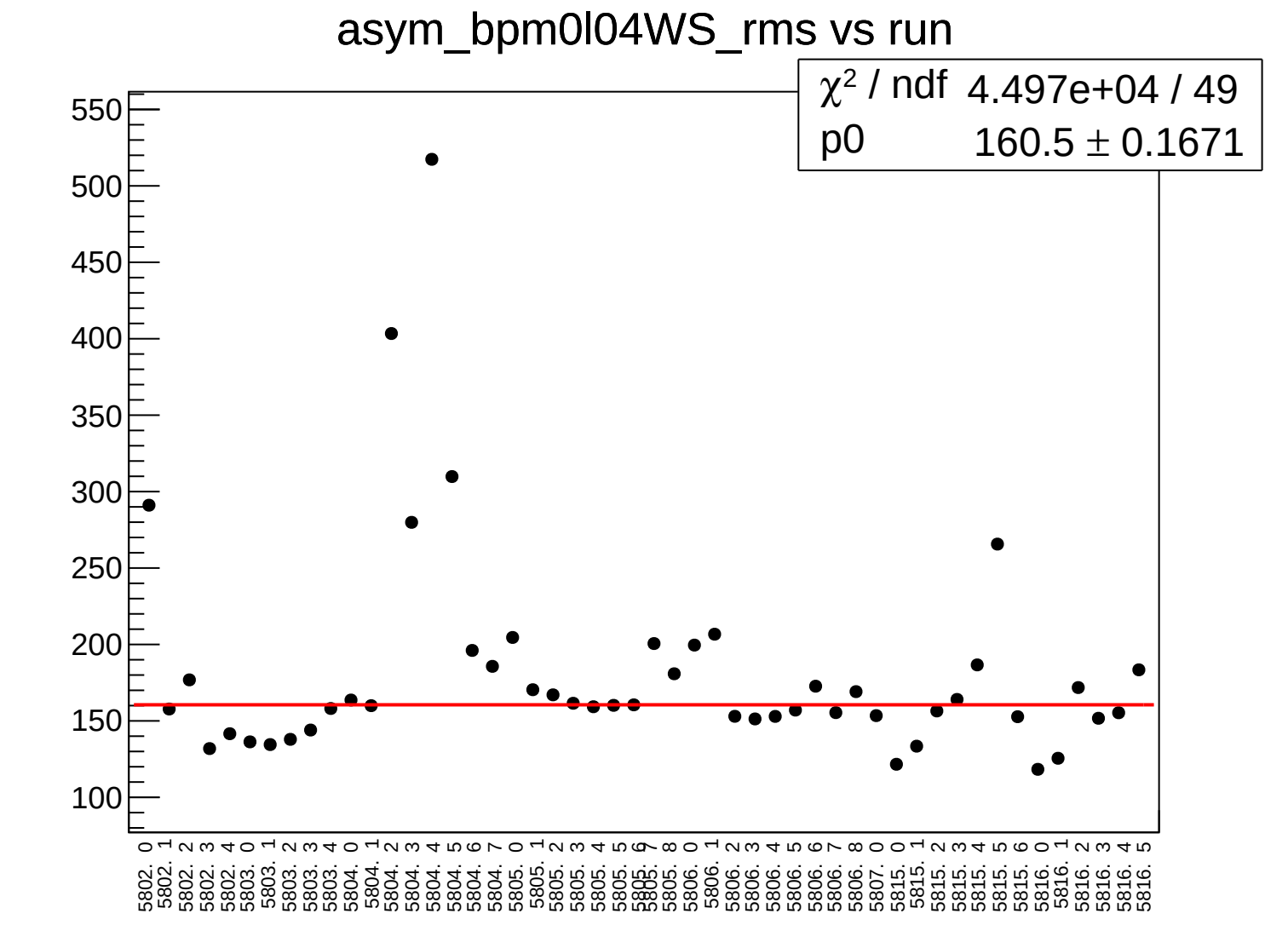

asym_bpm0l02WS_rms vs run
χ² / ndf 4.728e+04 / 49
p0 282.8 ± 0.2948
600
550
500
450
400
350
300
250
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0l03WS_mean vs run
χ² / ndf 57.09 / 49
p0 1954 ± 1111
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean −6.541
Std Dev 66.57
pull1D
Entries 50
Mean −0.01951
Std Dev 1.068


asym_bpm0l03WS_rms vs run
χ² / ndf 3.545e+05 / 49
p0 615.6 ± 0.7859
1800
1600
1400
1200
1000
800
600
400
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0l04WS_mean vs run
χ² / ndf 83.07 / 49
p0 1694 ± 236.3
pull
Entries 50
Mean −14.71
Std Dev 41.81


pull1D
Entries 50
Mean −0.06966
Std Dev 1.287


asym_bpm0l04WS_rms vs run
χ² / ndf 4.497e+04 / 49
p0 160.5 ± 0.1671
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
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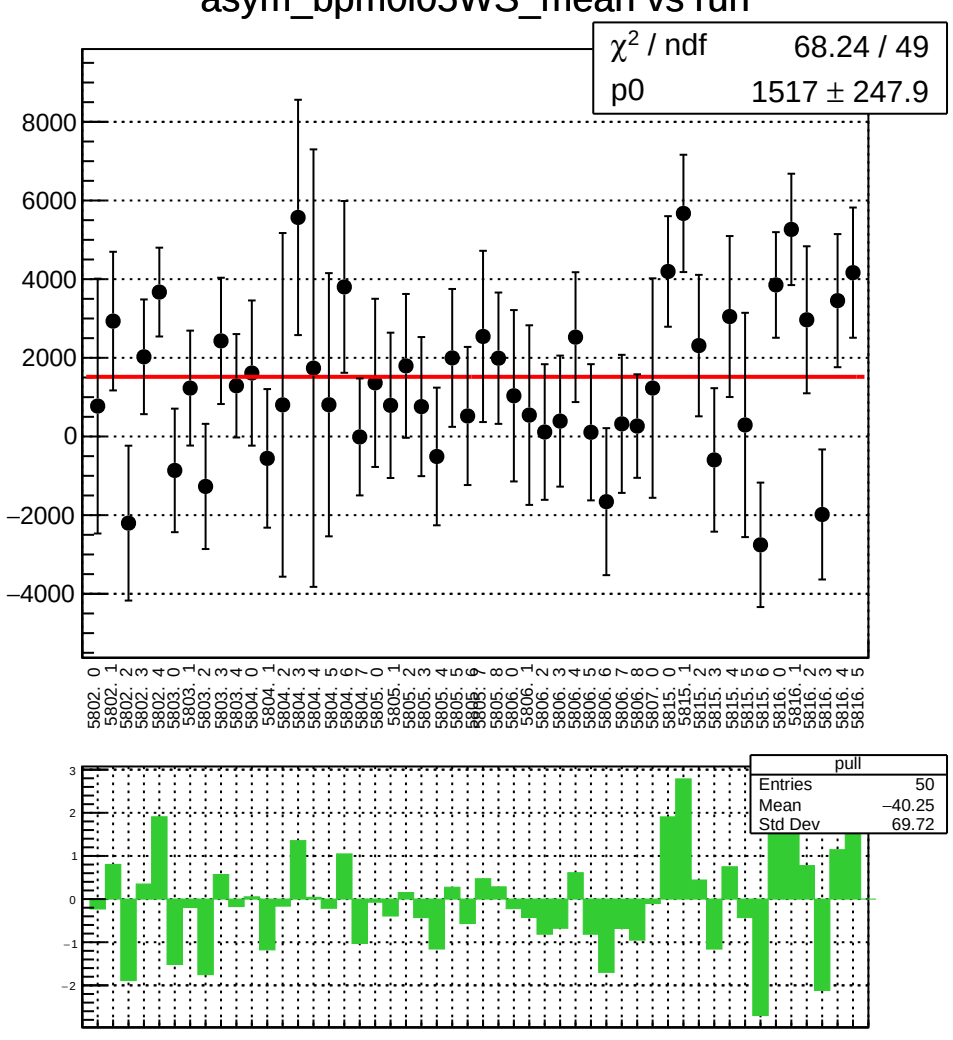
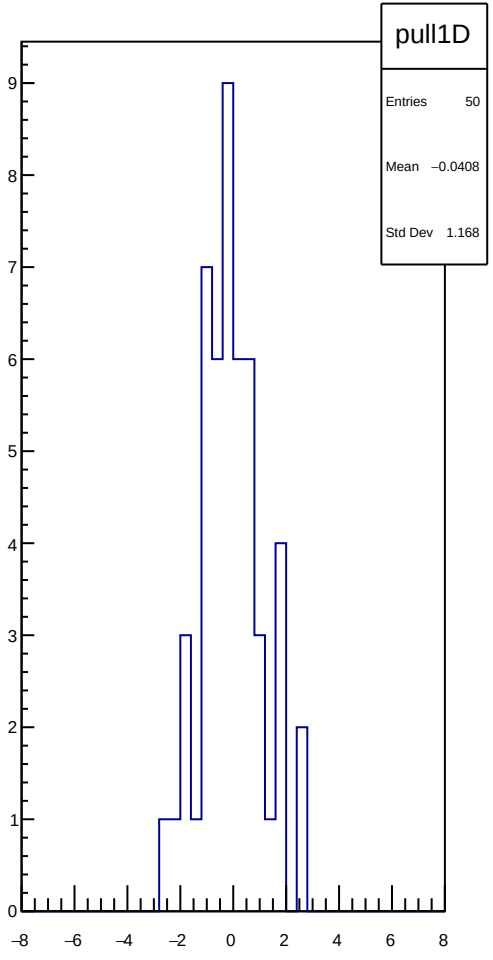
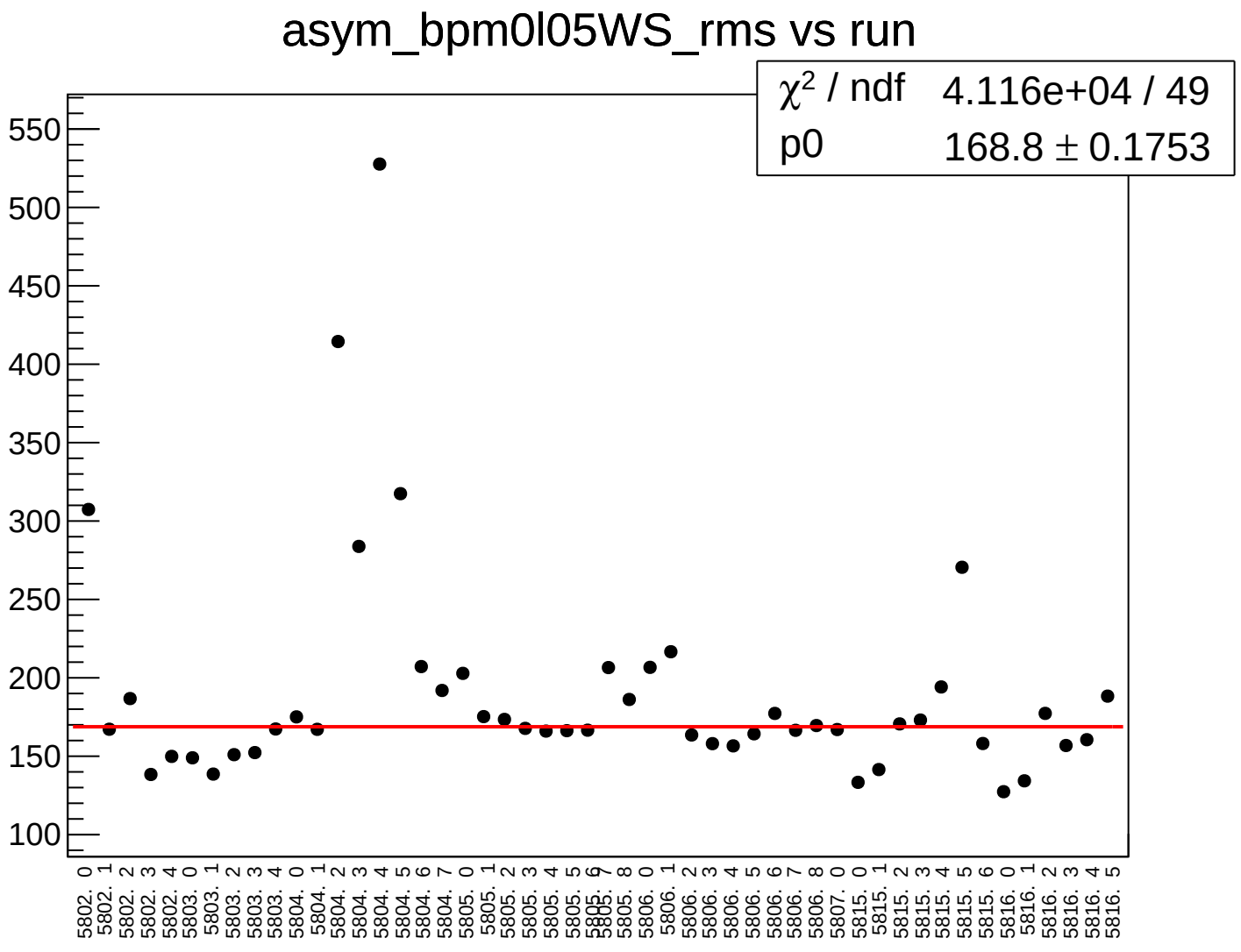
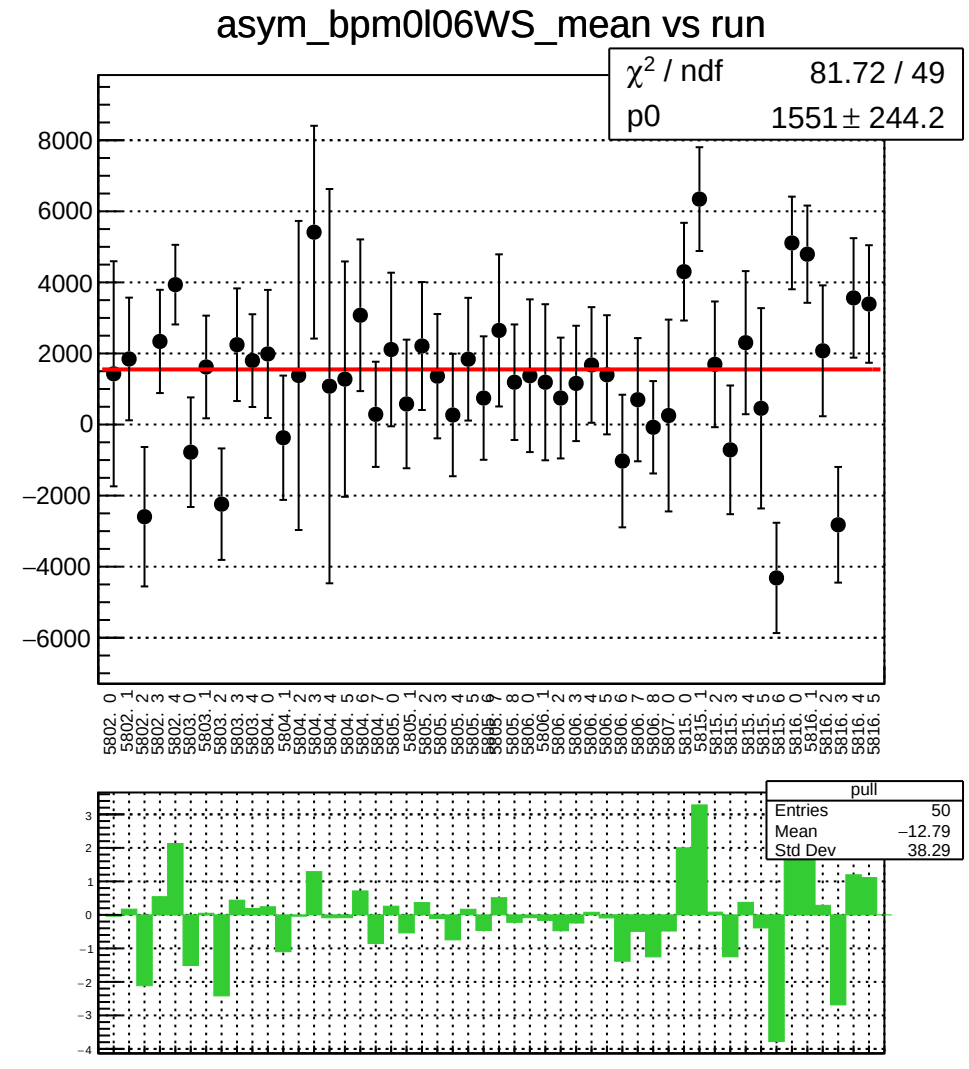
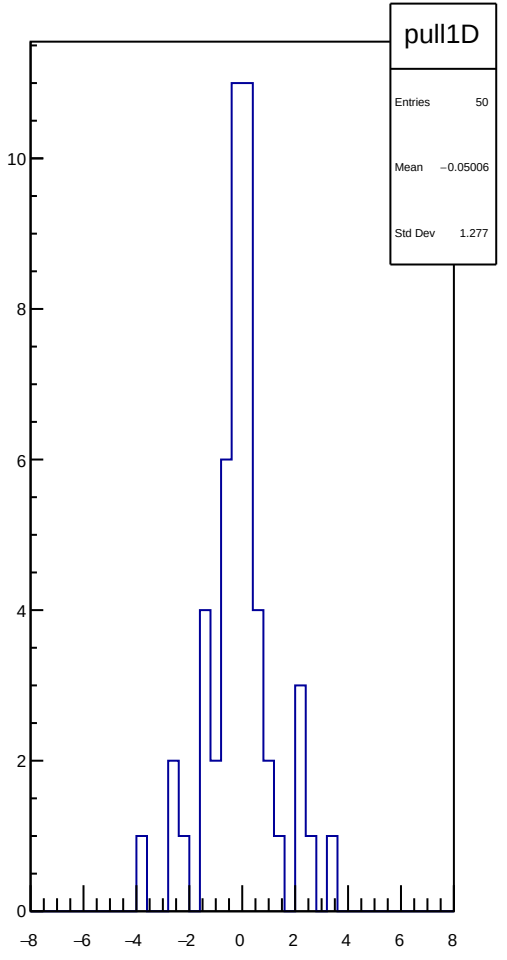
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

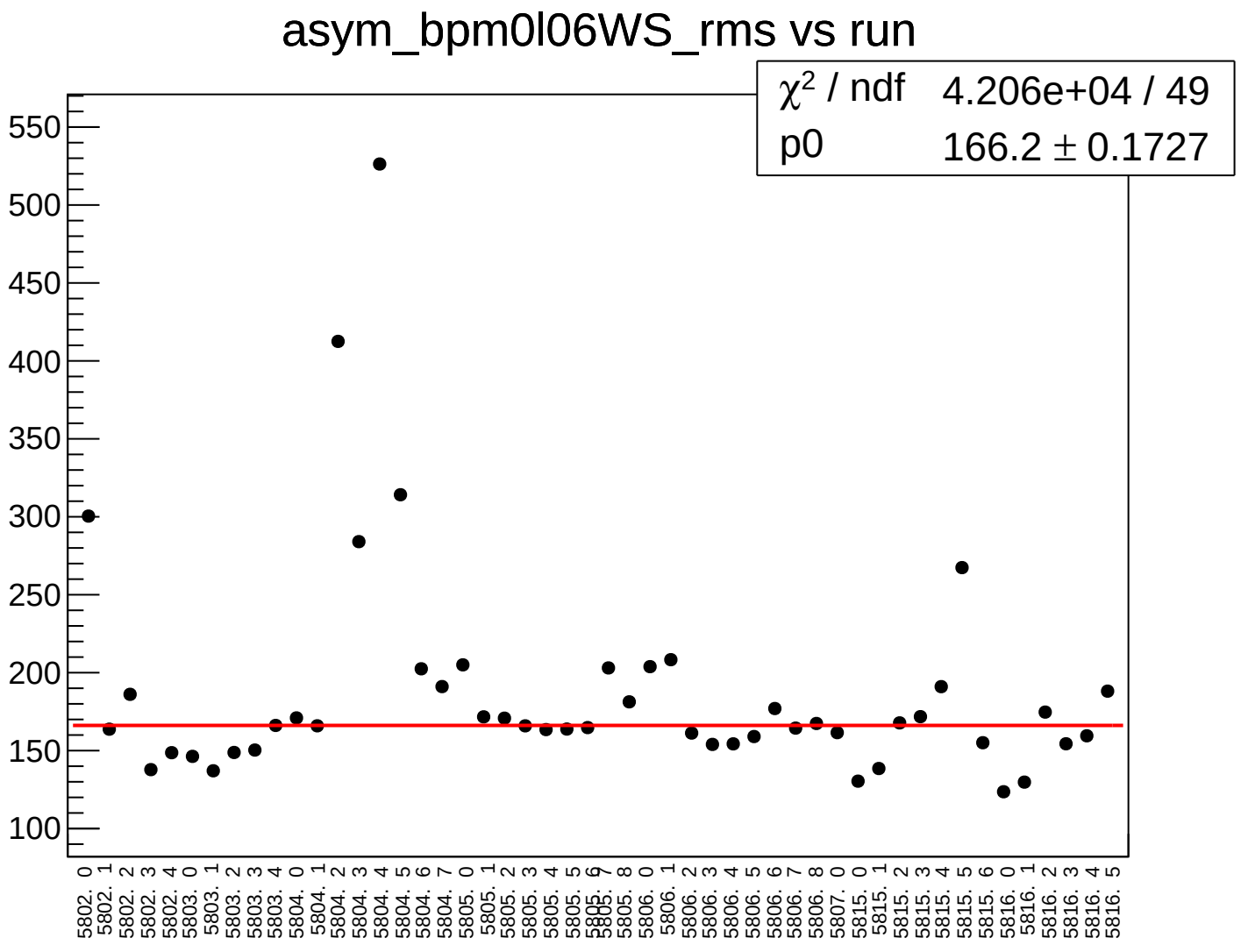

asym_bpm0l05WS_mean vs run
χ² / ndf 68.24 / 49
p0 1517 ± 247.9
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 50
Mean −40.25
Std Dev 69.72
3
2
1
0
−1
−2

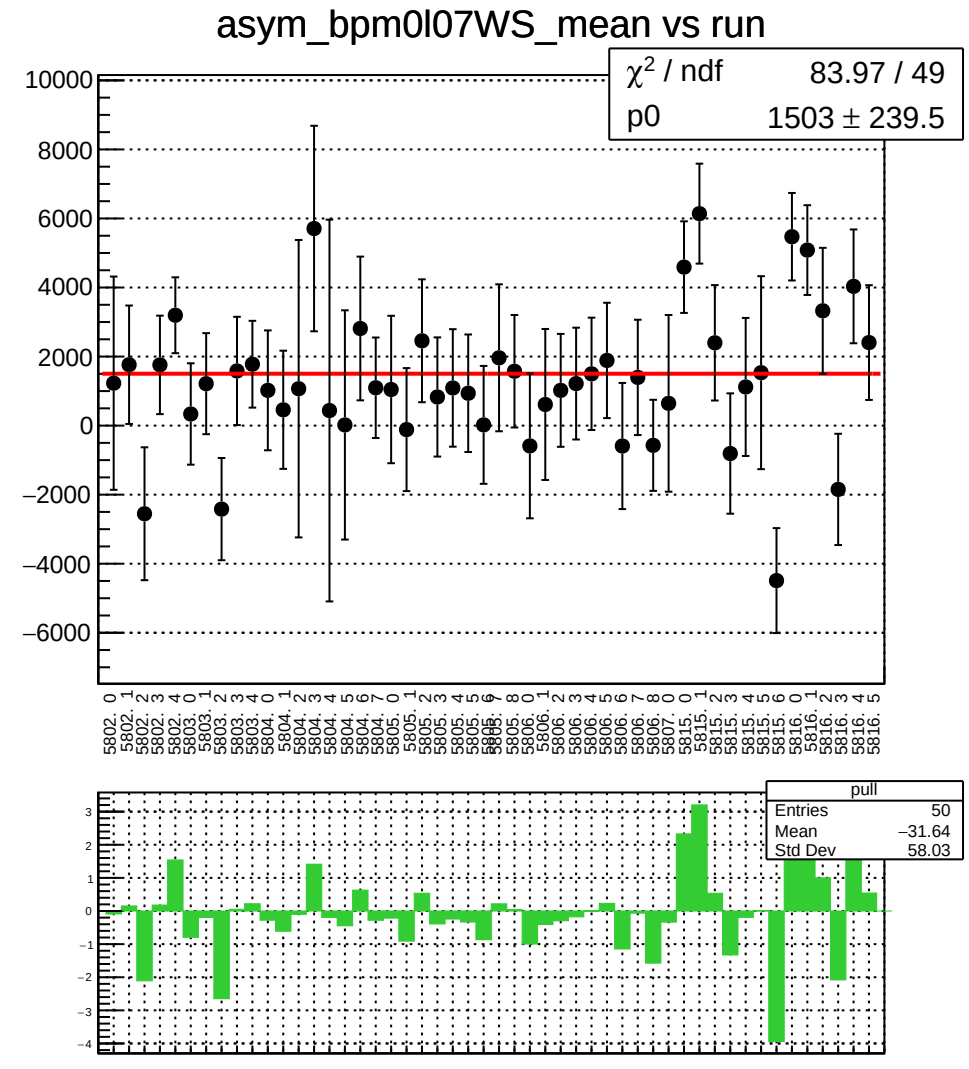

pull1D
Entries 50
Mean −0.0408
Std Dev 1.168
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

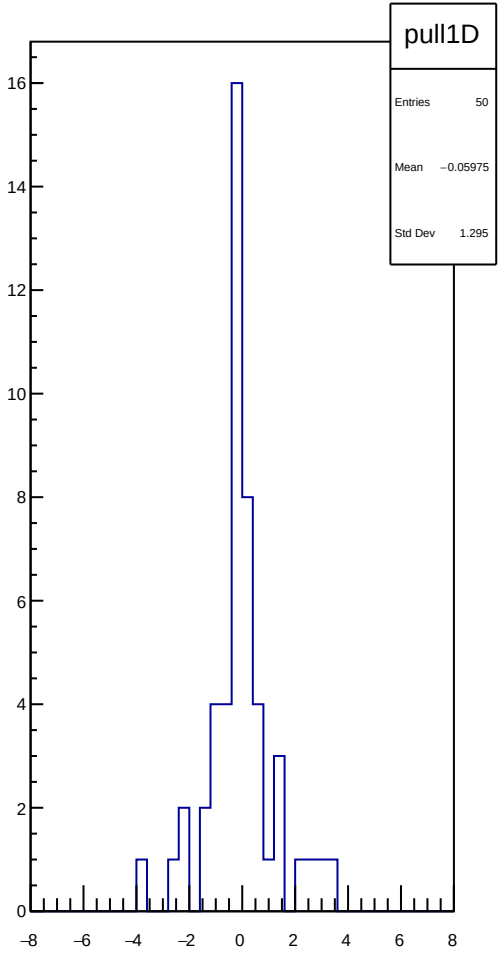

asym_bpm0l05WS_rms vs run
χ² / ndf 4.116e+04 / 49
p0 168.8 ± 0.1753
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

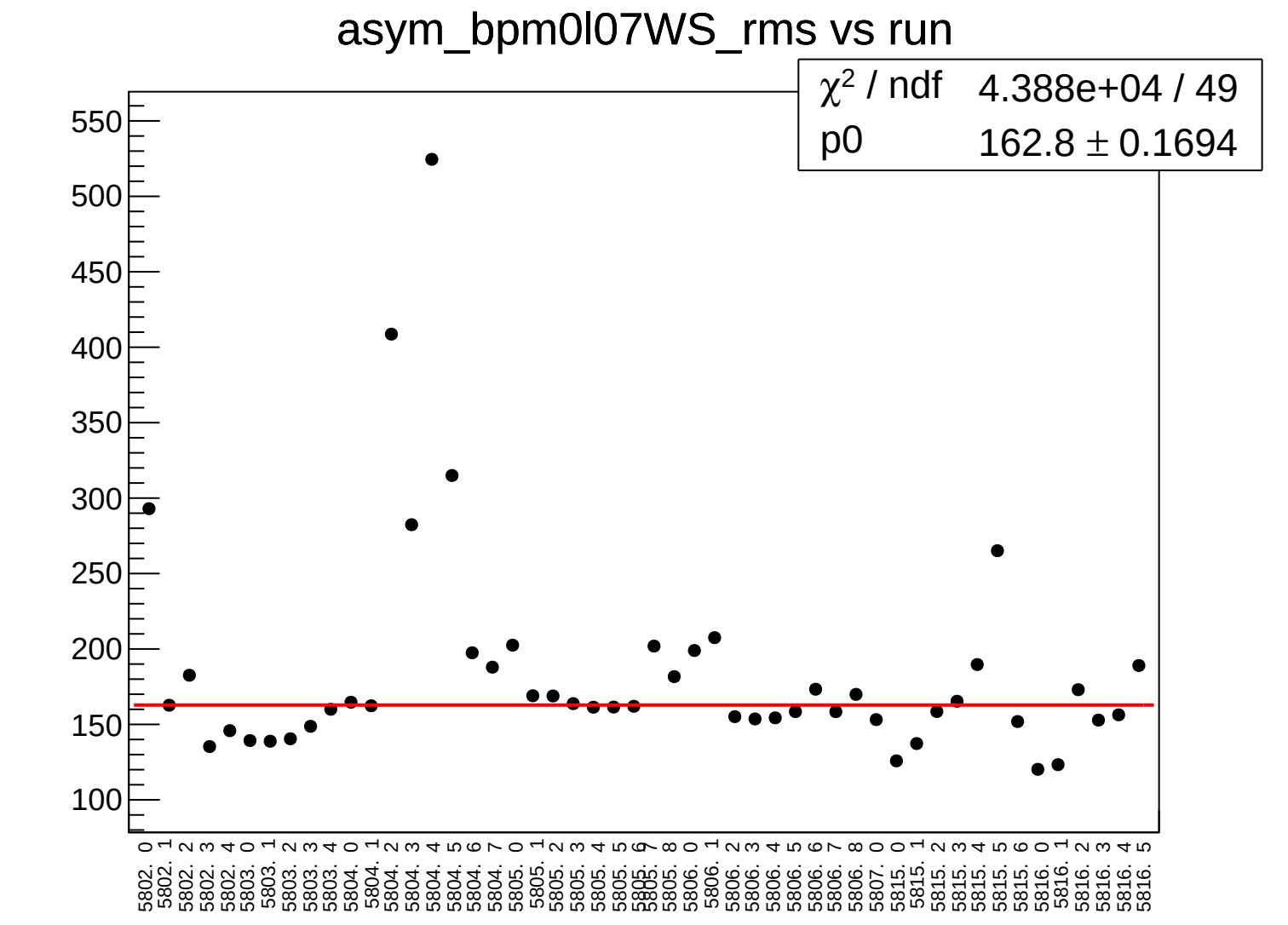

asym_bpm0l06WS_mean vs run
χ² / ndf 81.72 / 49
p0 1551 ± 244.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean −12.79
Std Dev 38.29
3
2
1
0
−1
−2
−3
−4

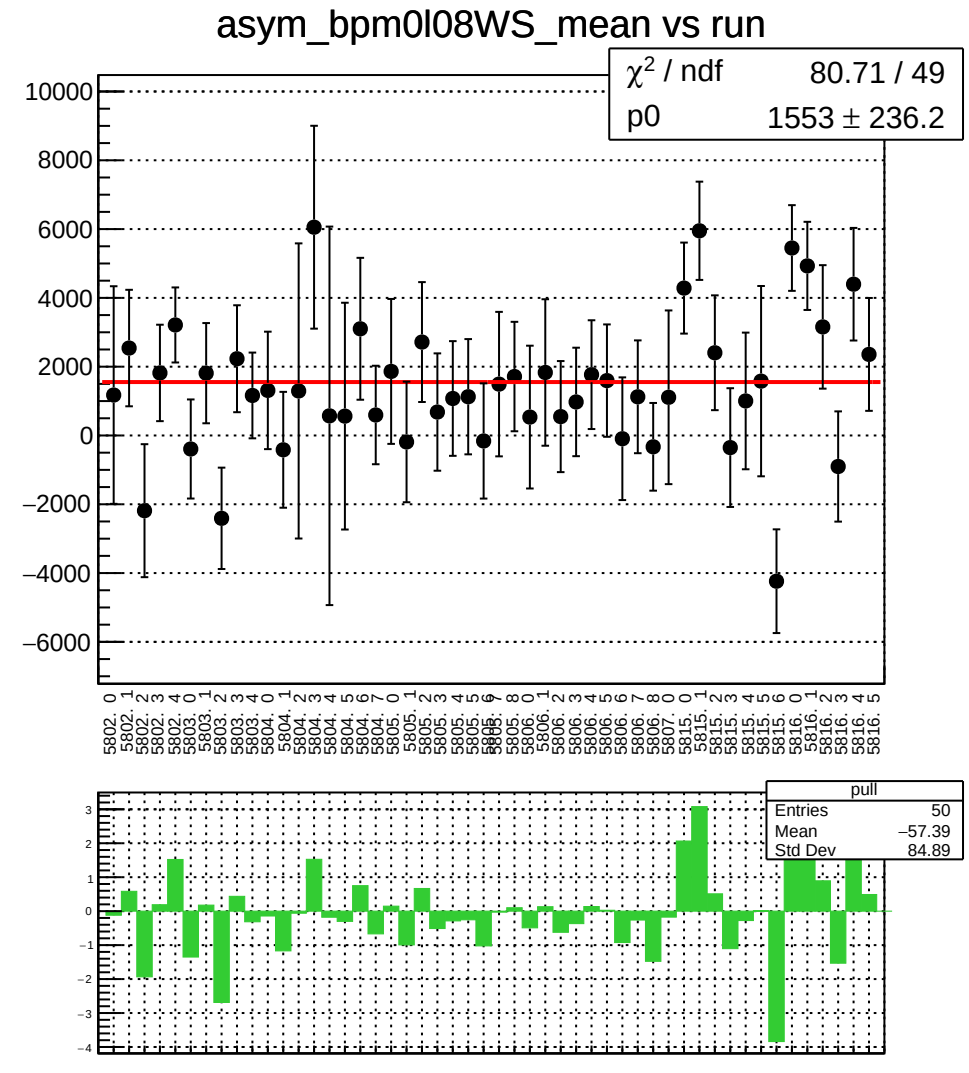

pull1D
Entries 50
Mean −0.05006
Std Dev 1.277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

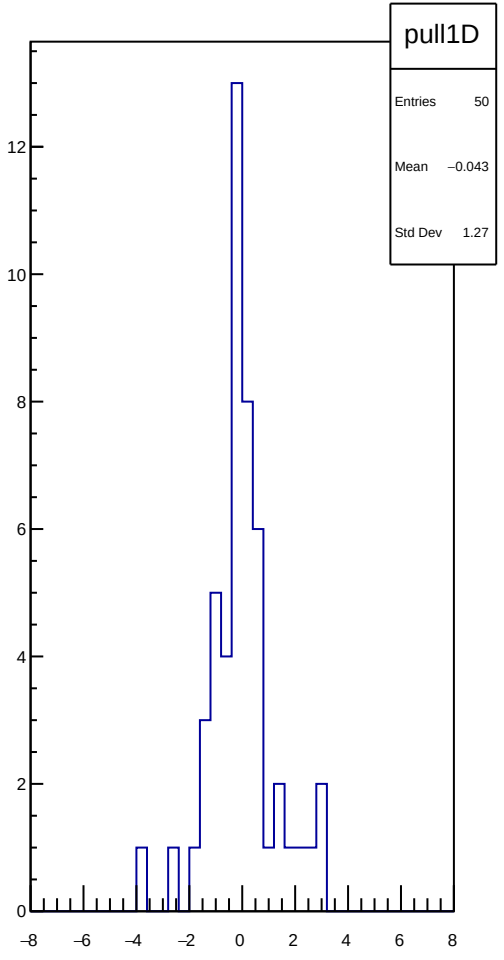

asym_bpm0l06WS_rms vs run
χ² / ndf 4.206e+04 / 49
p0 166.2 ± 0.1727
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

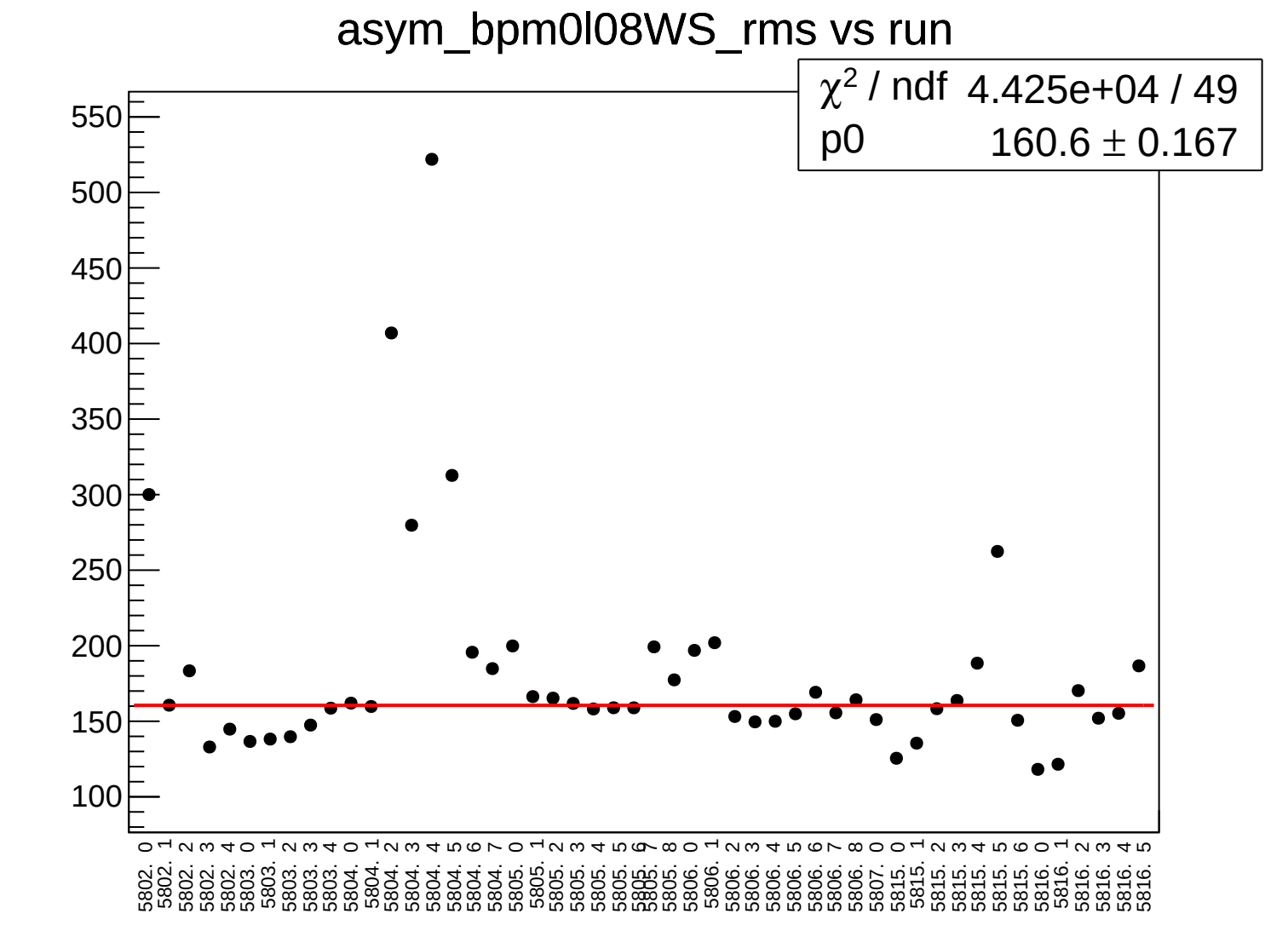

asym_bpm0l07WS_mean vs run
χ² / ndf 83.97 / 49
p0 1503 ± 239.5
pull
Entries 50
Mean −31.64
Std Dev 58.03

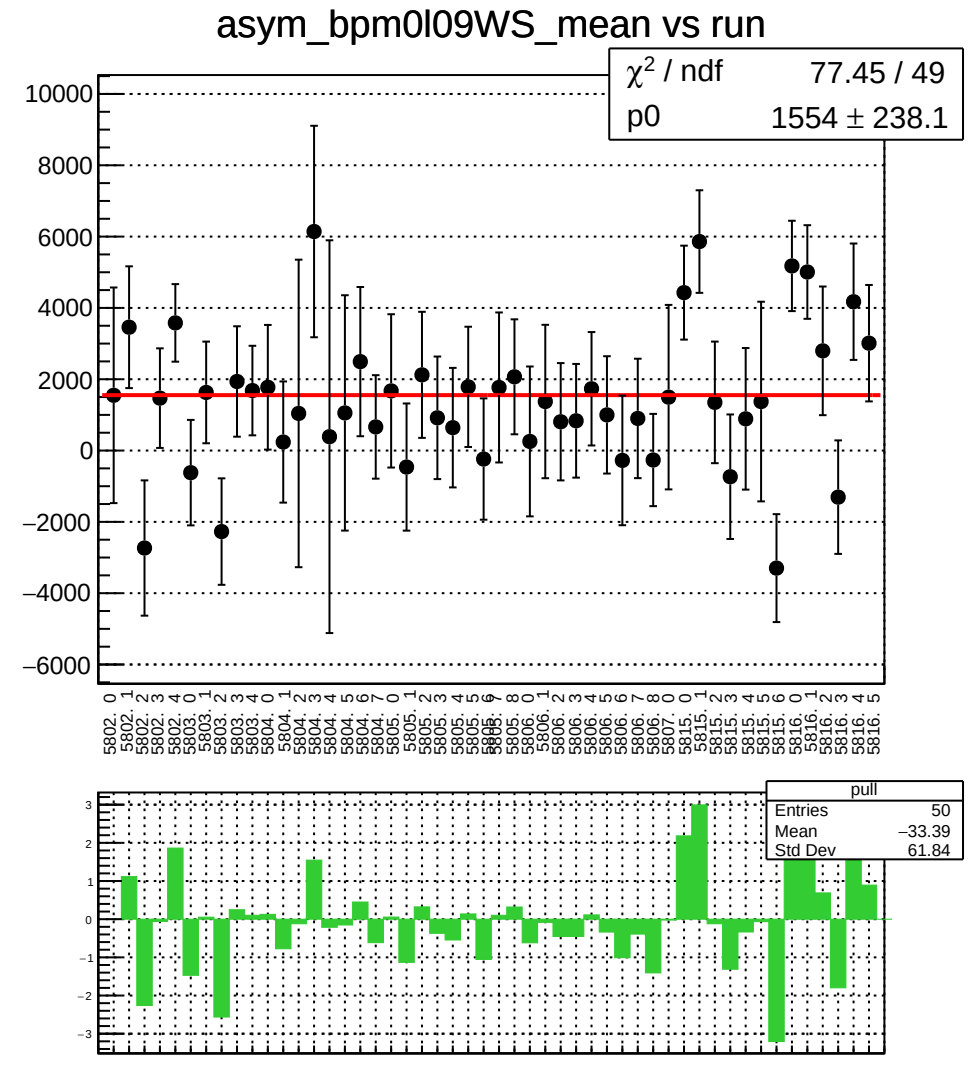

pull1D
Entries 50
Mean −0.05975
Std Dev 1.295

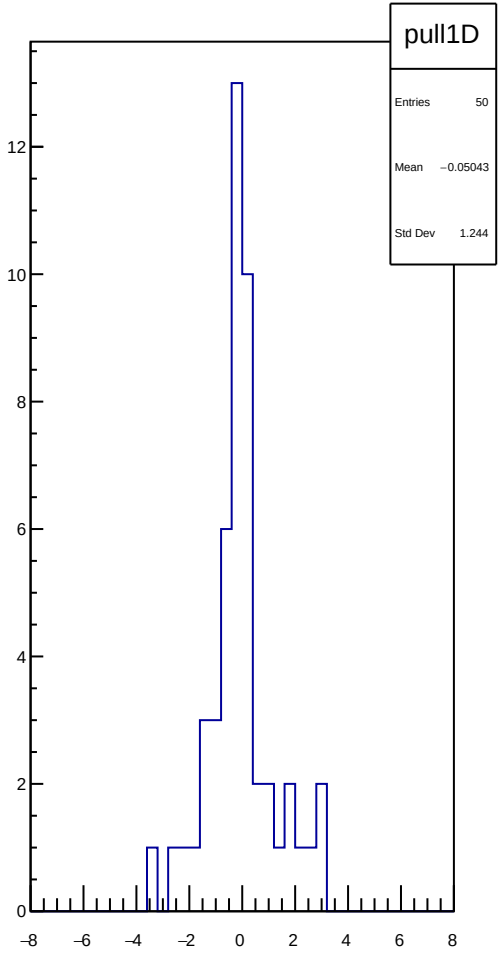

asym_bpm0l07WS_rms vs run
χ² / ndf 4.388e+04 / 49
p0 162.8 ± 0.1694
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

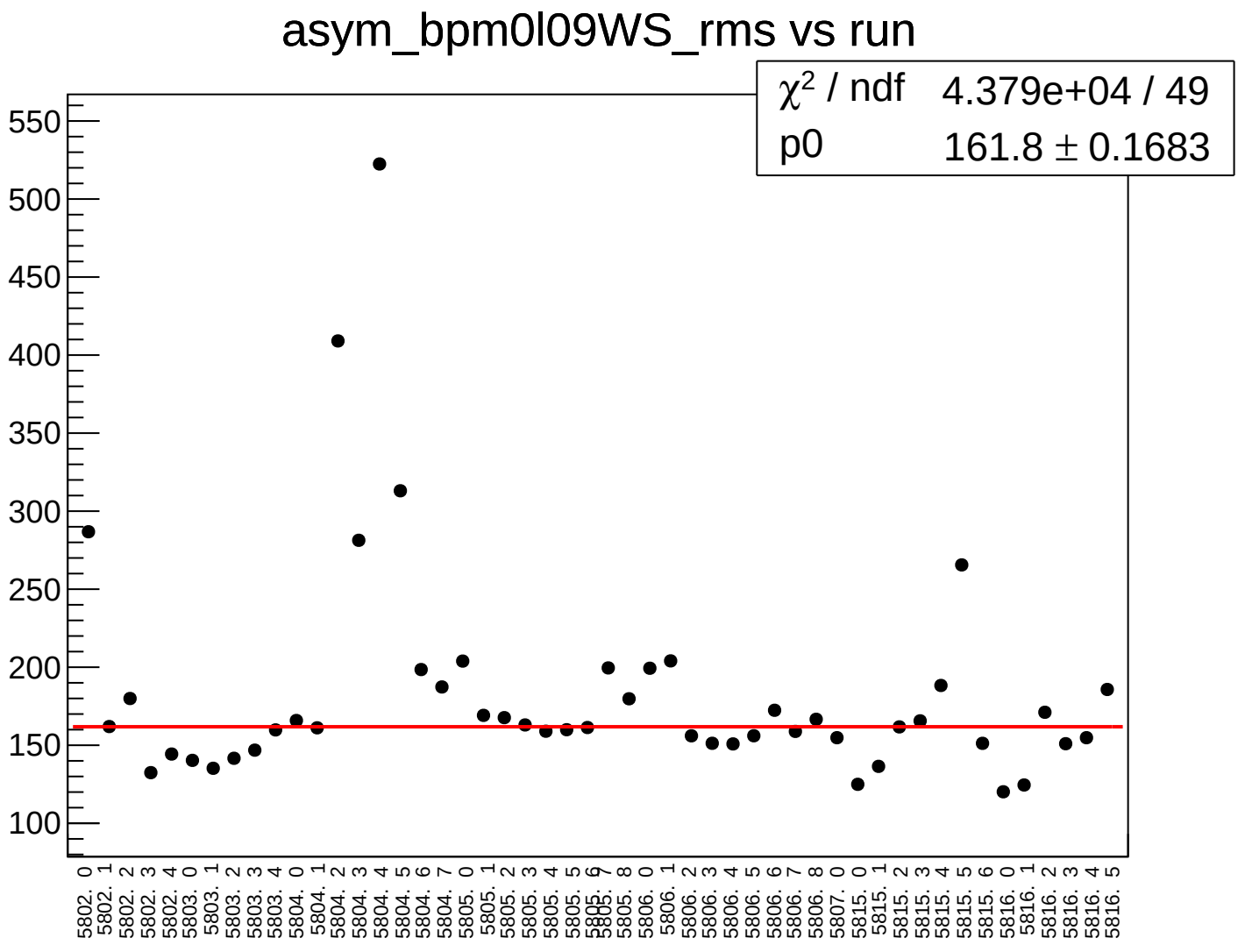

asym_bpm0l08WS_mean vs run
χ² / ndf 80.71 / 49
p0 1553 ± 236.2
pull
Entries 50
Mean −57.39
Std Dev 84.89


pull1D
Entries 50
Mean −0.043
Std Dev 1.27


asym_bpm0l08WS_rms vs run
χ² / ndf 4.425e+04 / 49
p0 160.6 ± 0.167
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0l09WS_mean vs run
χ² / ndf 77.45 / 49
p0 1554 ± 238.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean −33.39
Std Dev 61.84
3
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean −0.05043
Std Dev 1.244
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l09WS_rms vs run
χ² / ndf 4.379e+04 / 49
p0 161.8 ± 0.1683
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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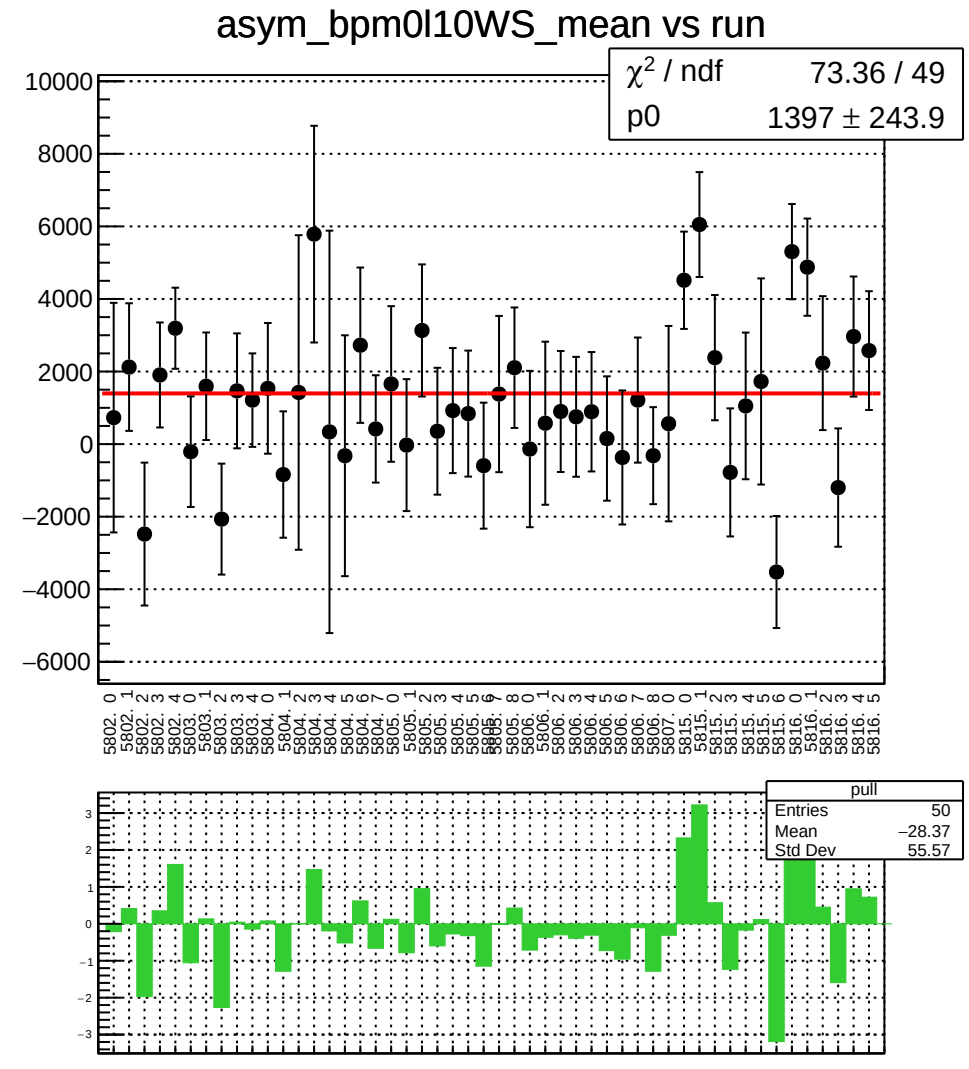
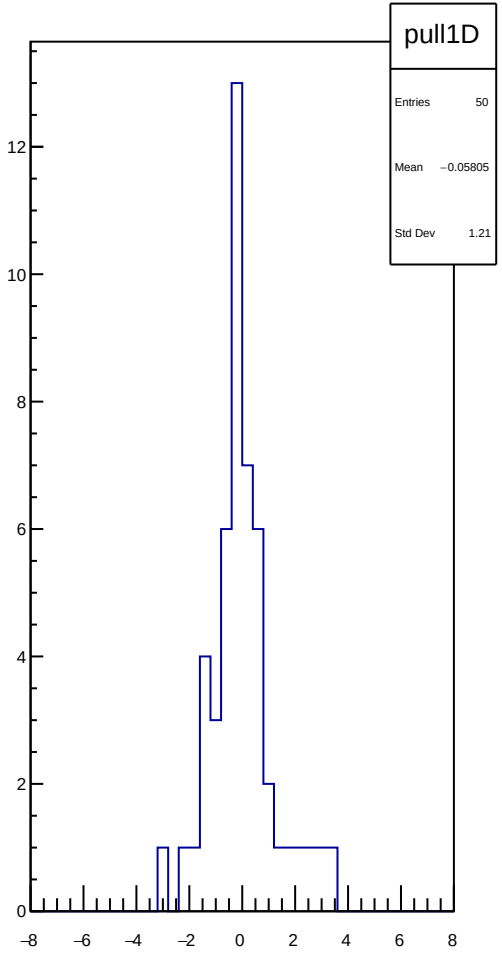
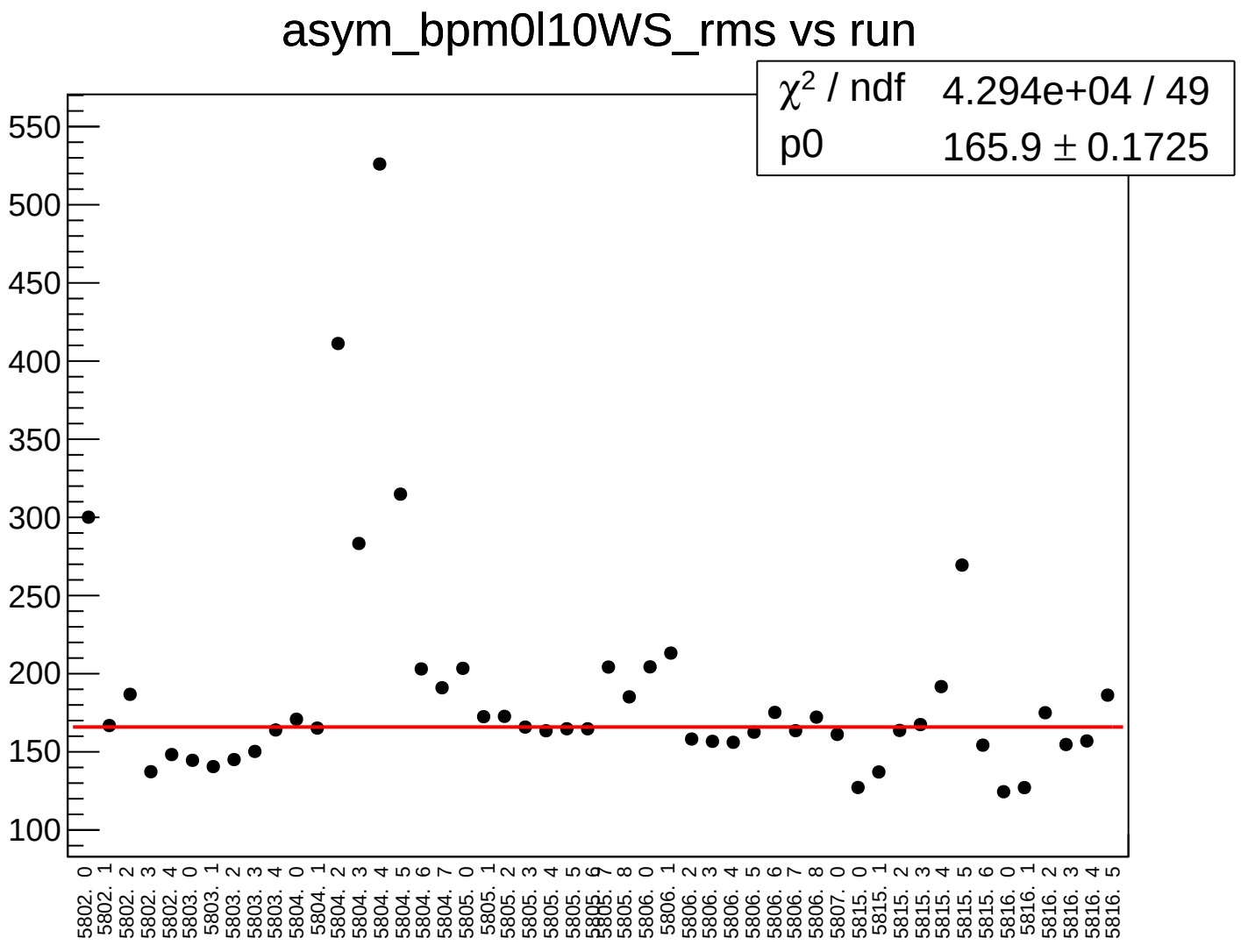
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0l10WS_mean vs run
χ² / ndf 73.36 / 49
p0 1397 ± 243.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean −28.37
Std Dev 55.57
3
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean −0.05805
Std Dev 1.21
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l10WS_rms vs run
χ² / ndf 4.294e+04 / 49
p0 165.9 ± 0.1725
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
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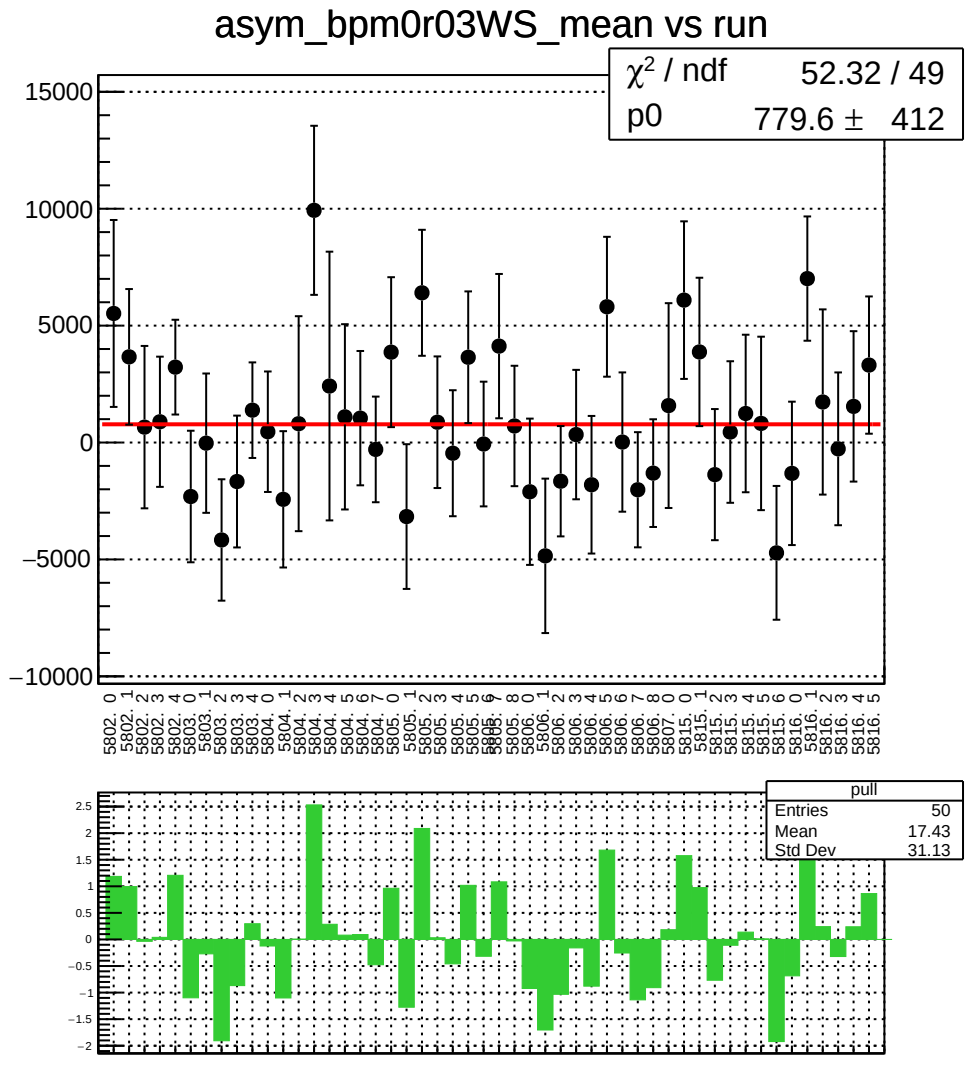
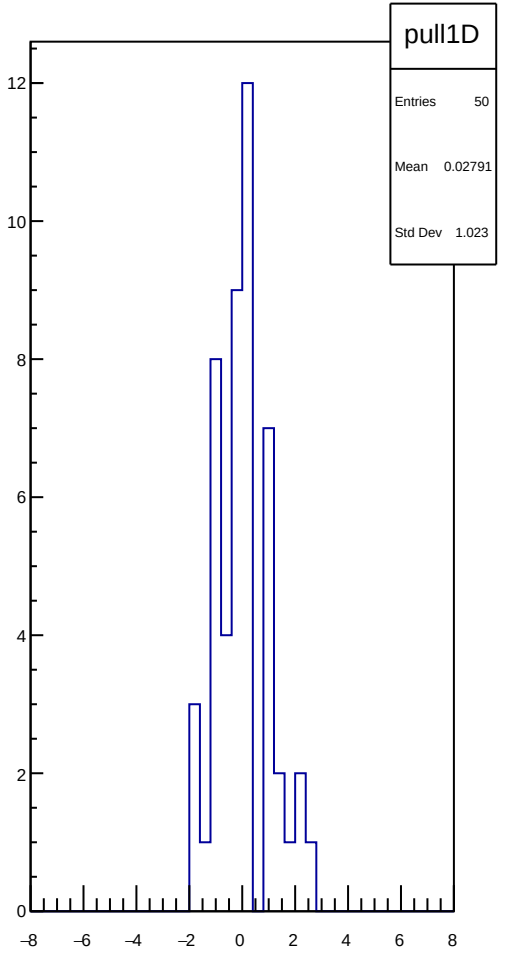
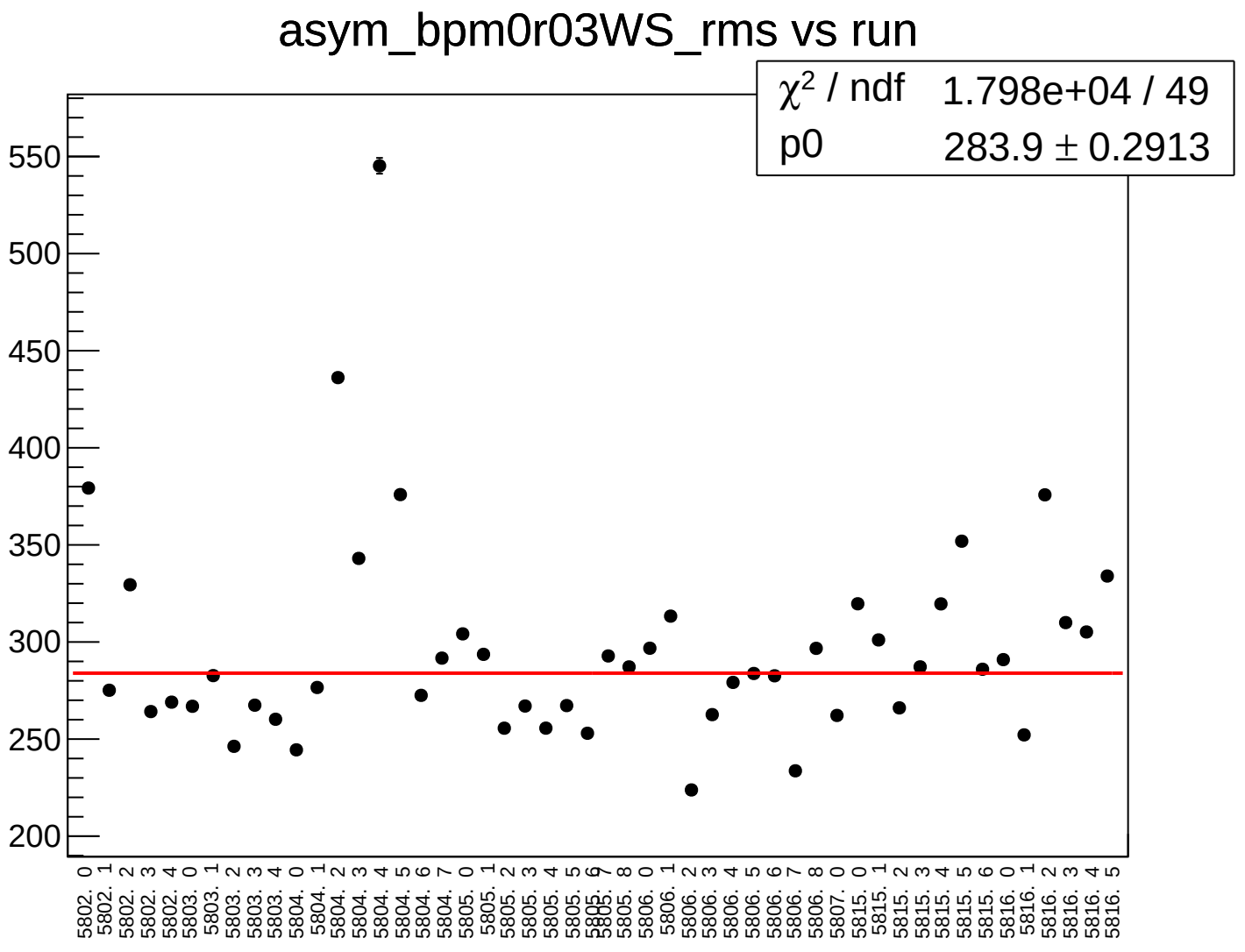
5816. 4
5816. 5


asym_bpm0r03WS_mean vs run
χ² / ndf 52.32 / 49
p0 779.6 ± 412
15000
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 17.43
Std Dev 31.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.02791
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r03WS_rms vs run
χ² / ndf 1.798e+04 / 49
p0 283.9 ± 0.2913
550
500
450
400
350
300
250
200
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
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5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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5816. 2
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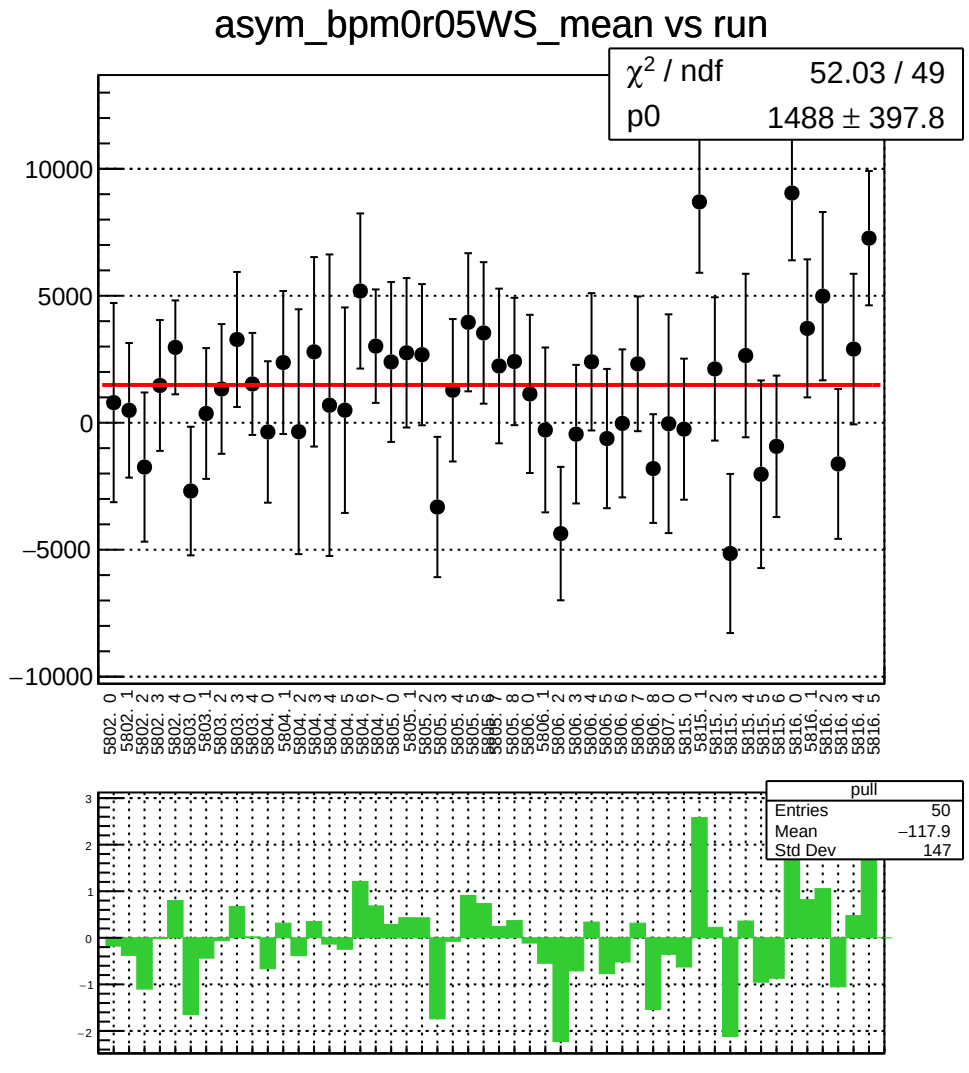
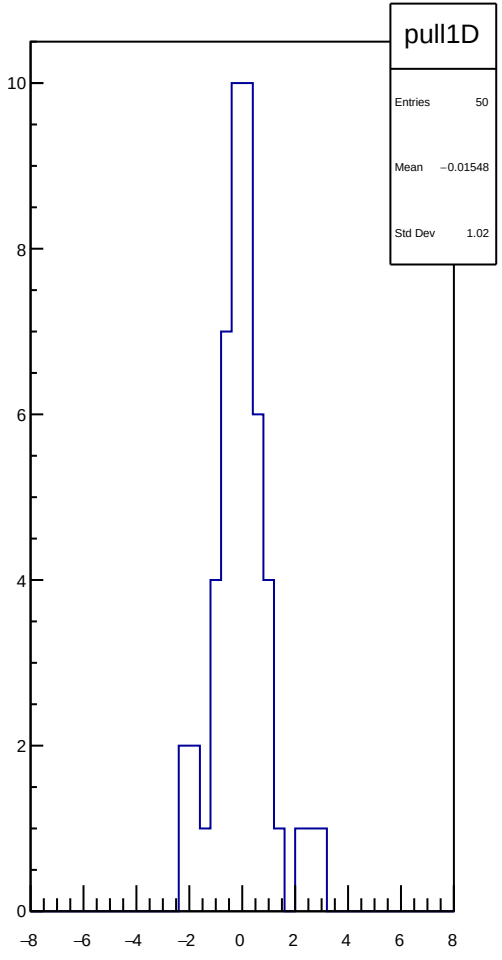
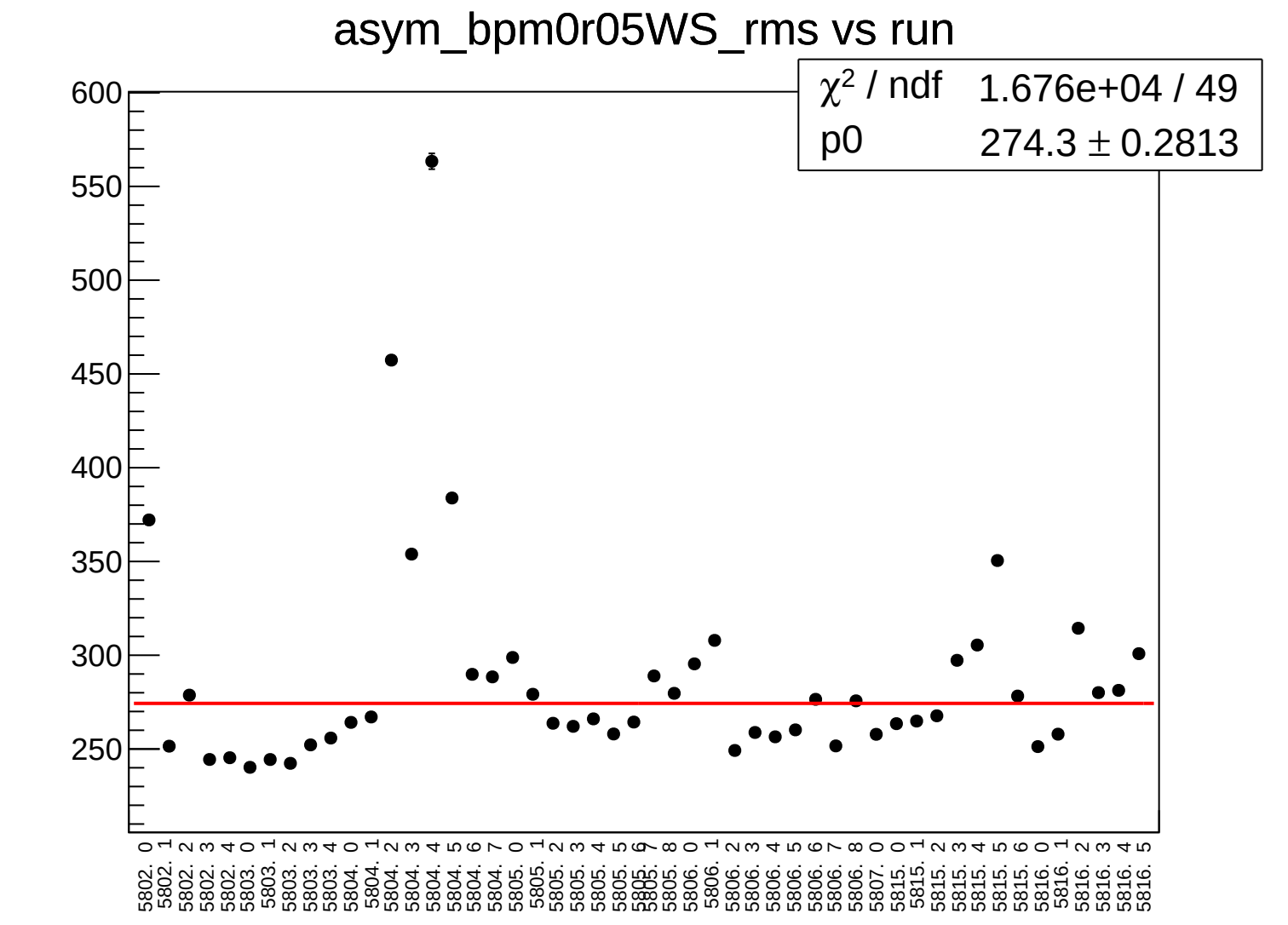
5816. 4
5816. 5


asym_bpm0r05WS_mean vs run
χ² / ndf 52.03 / 49
p0 1488 ± 397.8
10000
5000
0
−5000
−10000
pull
Entries 50
Mean −117.9
Std Dev 147
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01548
Std Dev 1.02
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.676e+04 / 49
p0 274.3 ± 0.2813
600
550
500
450
400
350
300
250
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
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5805. 6
5805. 7
5805. 8
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5806. 2
5806. 3
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5806. 8
5807. 0
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5815. 2
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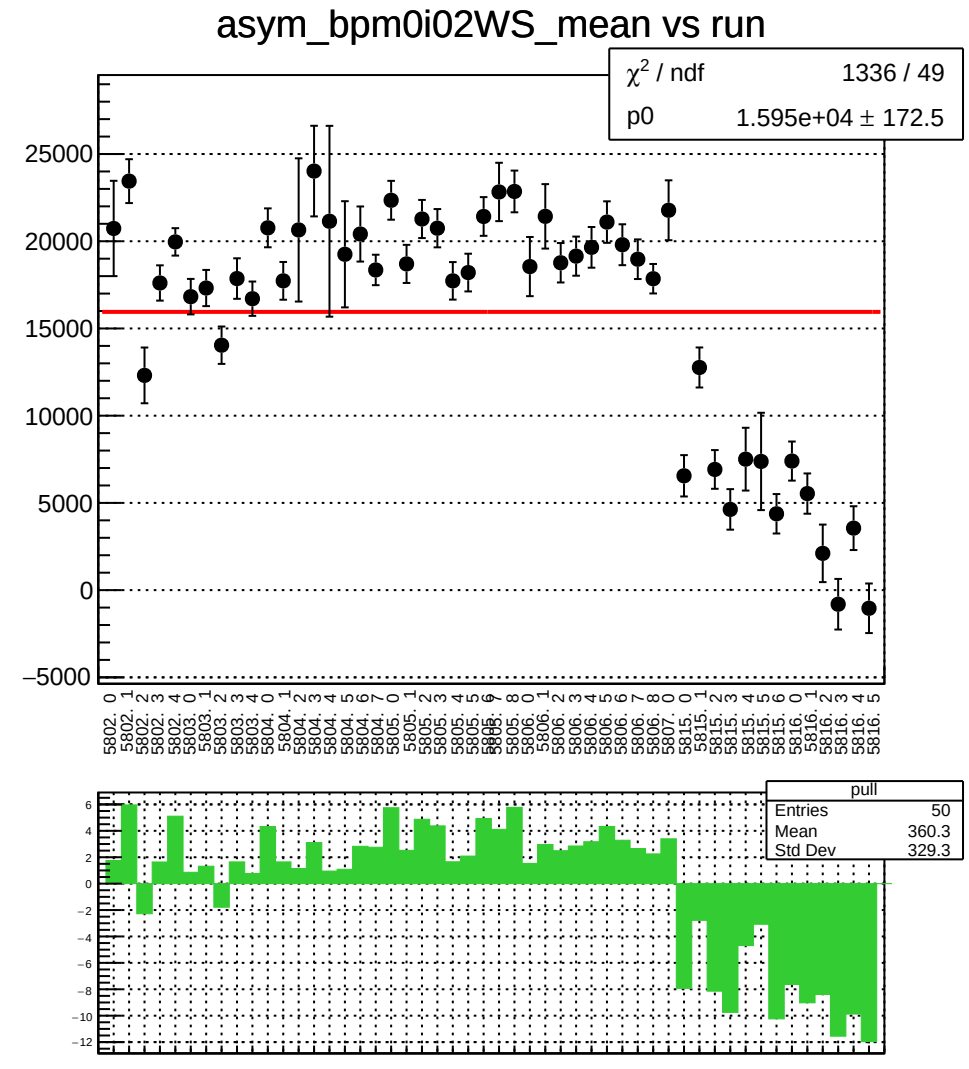
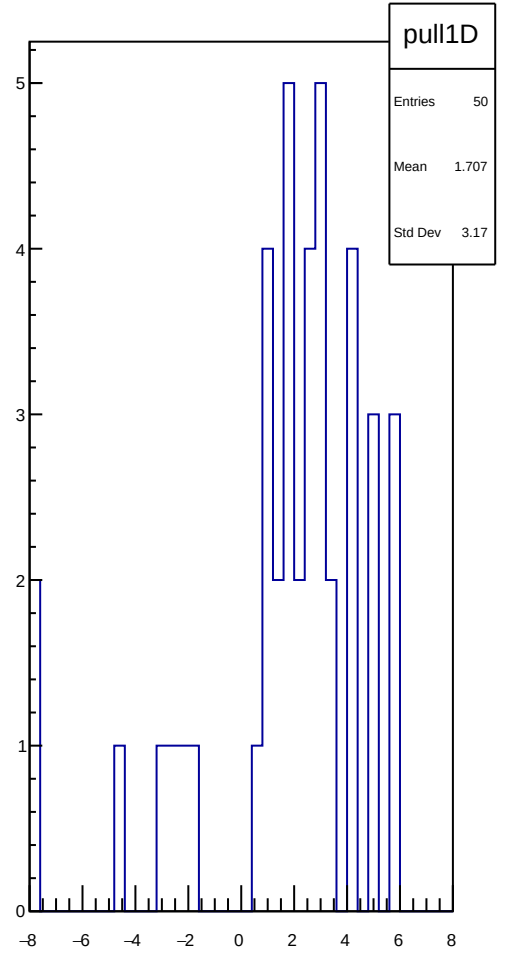
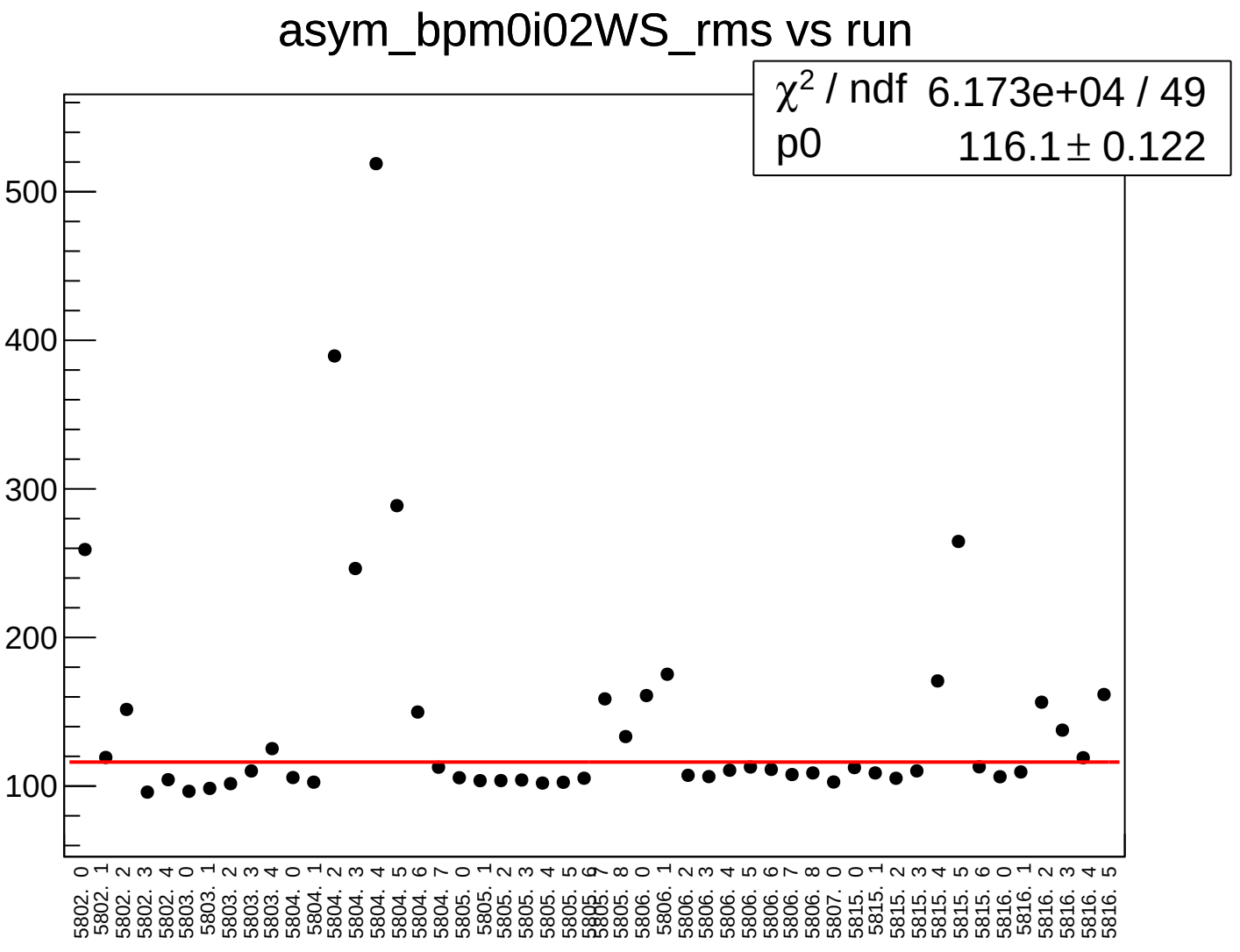
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0i02WS_mean vs run
χ² / ndf 1336 / 49
p0 1.595e+04 ± 172.5
pull
Entries 50
Mean 360.3
Std Dev 329.3


pull1D
Entries 50
Mean 1.707
Std Dev 3.17


asym_bpm0i02WS_rms vs run
χ² / ndf 6.173e+04 / 49
p0 116.1 ± 0.122
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
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5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
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5805. 3
5805. 4
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5805. 6
5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
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5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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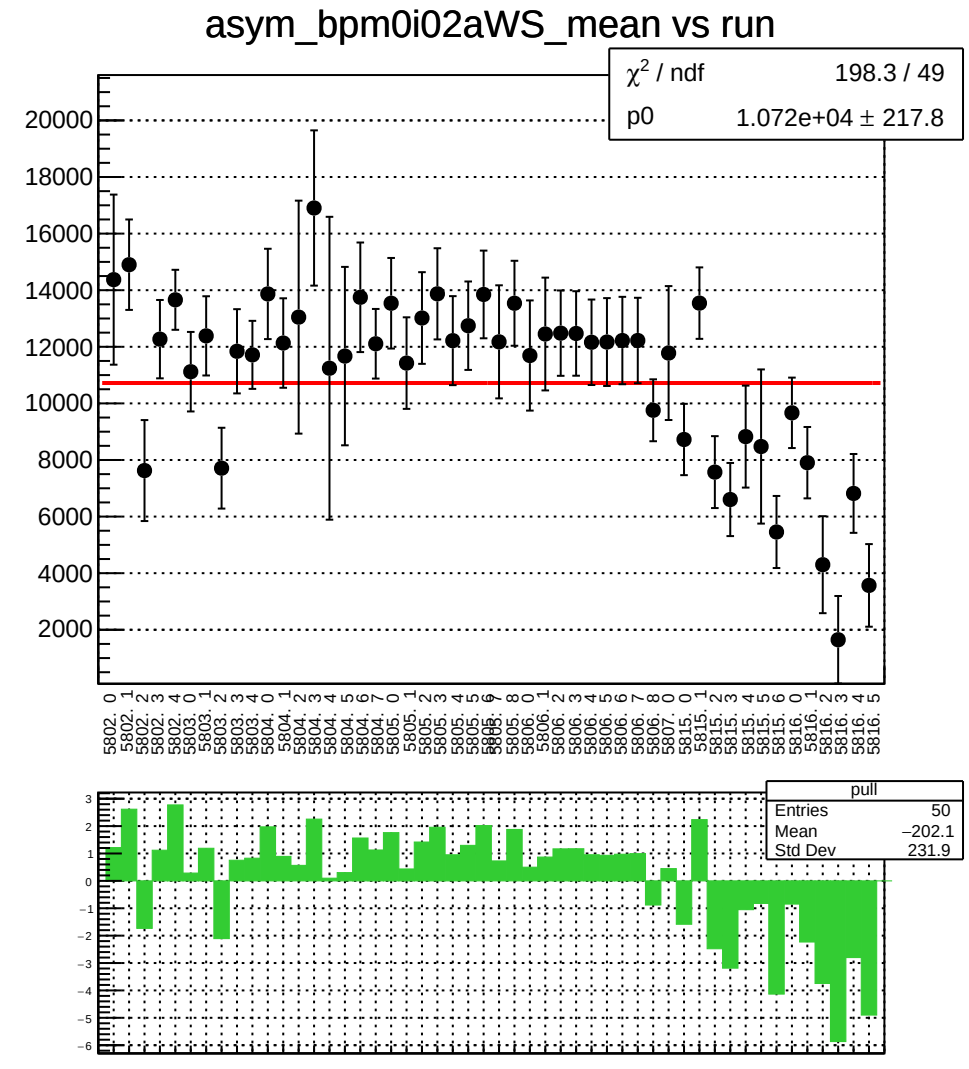
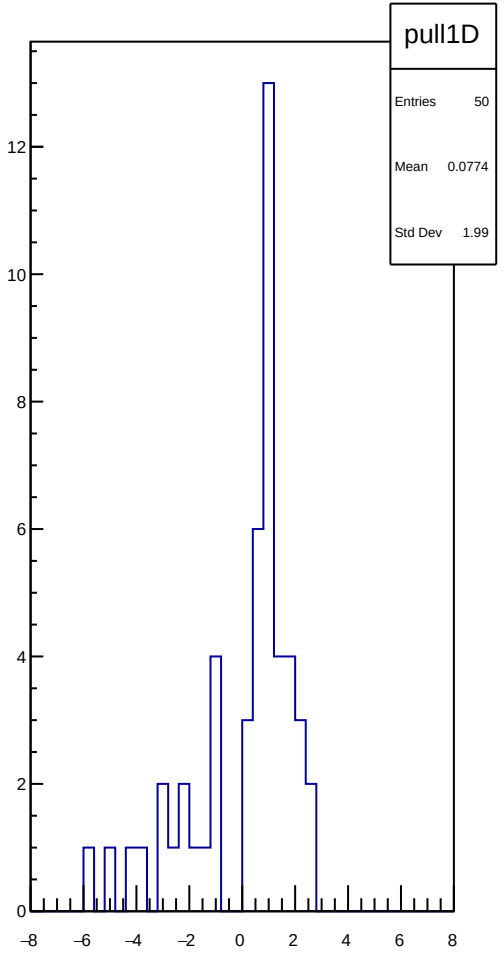
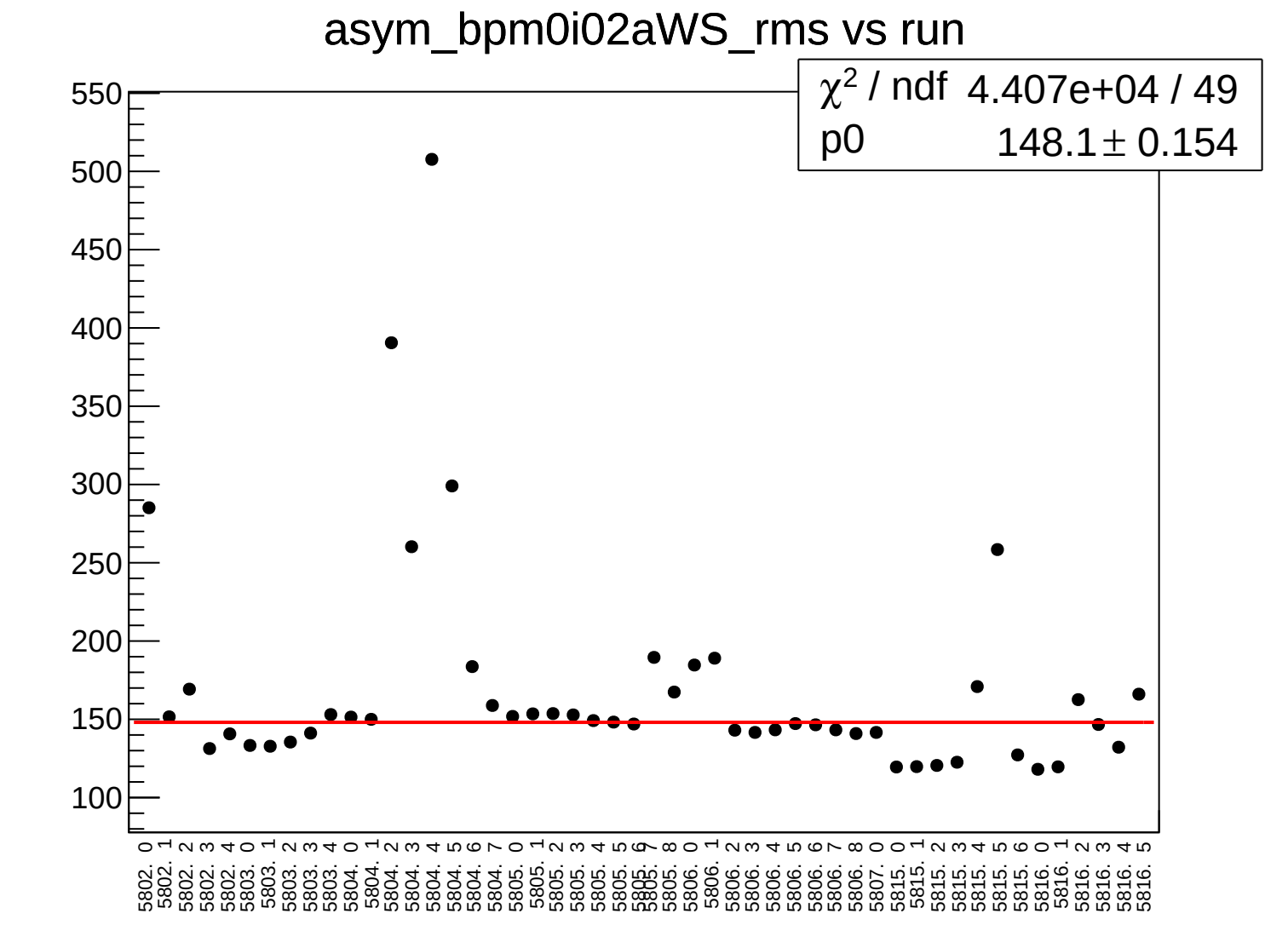
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0i02aWS_mean vs run
χ² / ndf 198.3 / 49
p0 1.072e+04 ± 217.8
pull
Entries 50
Mean −202.1
Std Dev 231.9


pull1D
Entries 50
Mean 0.0774
Std Dev 1.99


asym_bpm0i02aWS_rms vs run
χ^2 / ndf 4.407e+04 / 49
p0 148.1 ± 0.154
550
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
5803. 3
5803. 4
5804. 0
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5805. 7
5805. 8
5806. 0
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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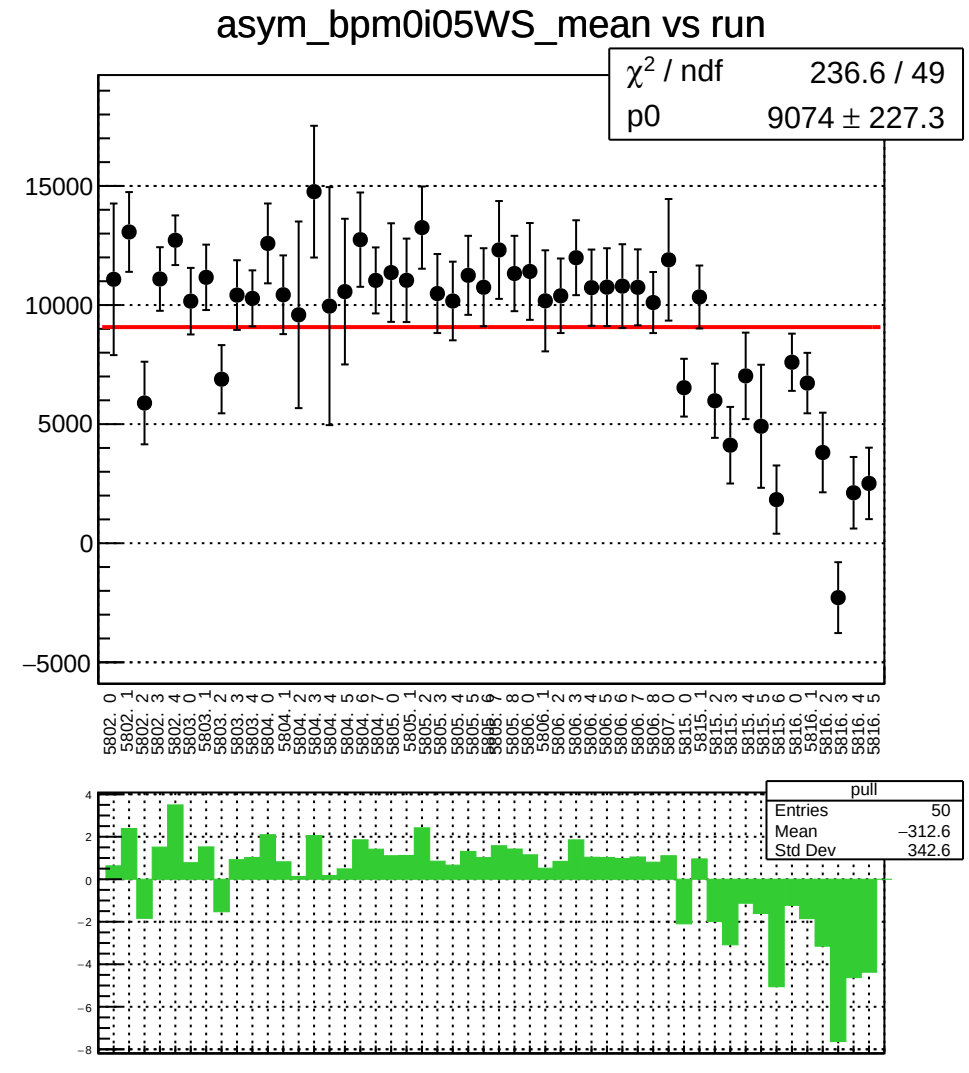
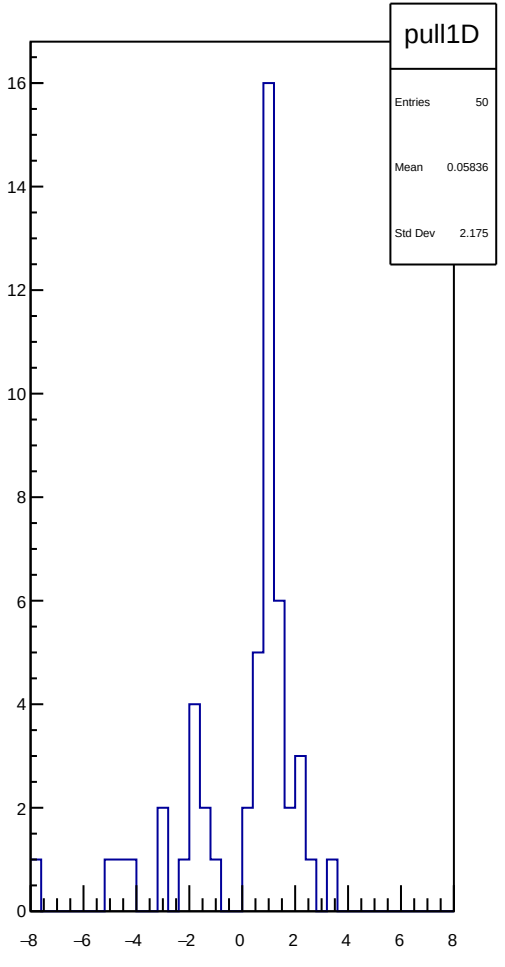
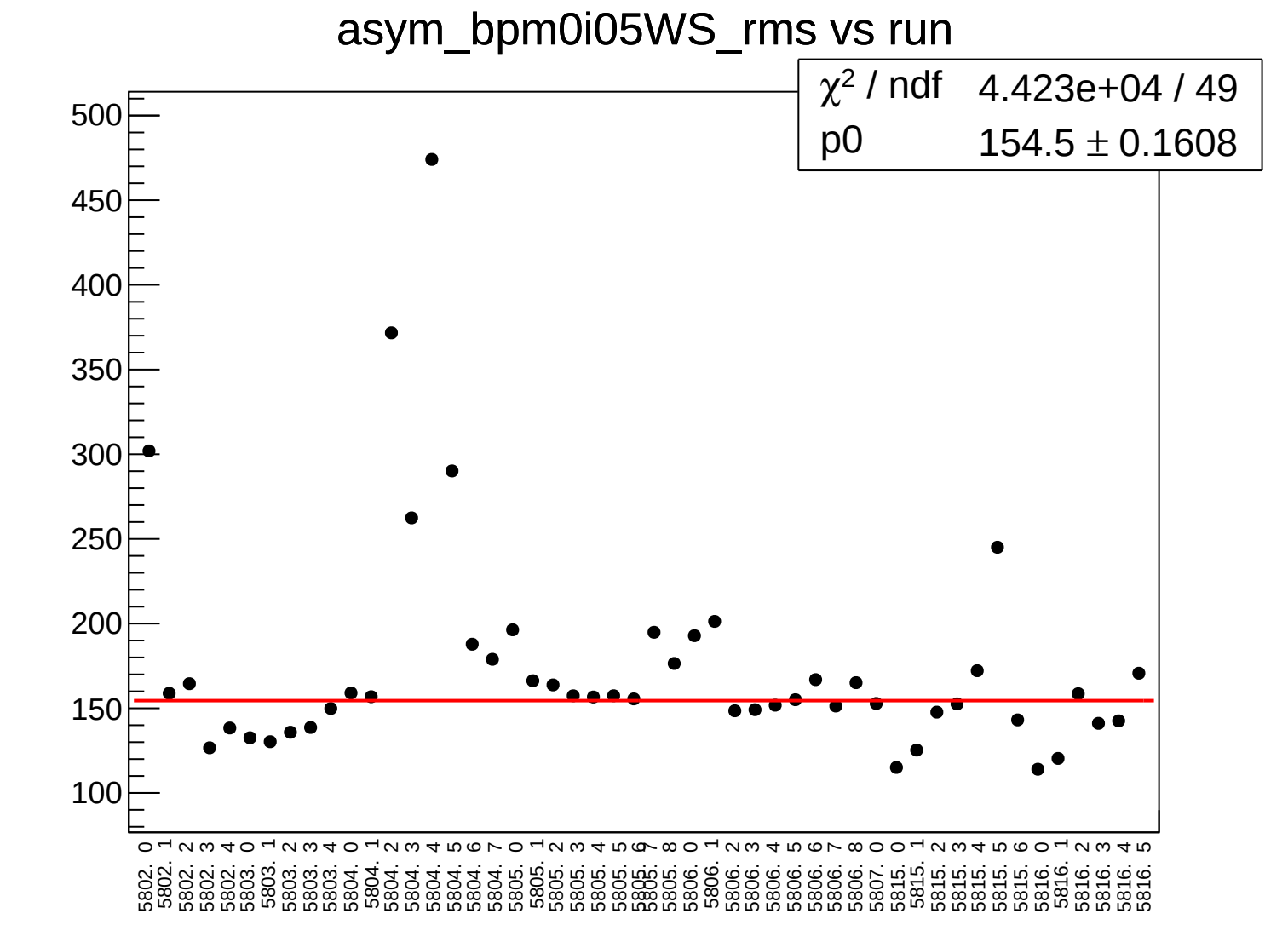
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm0i05WS_mean vs run
χ² / ndf 236.6 / 49
p0 9074 ± 227.3
15000
10000
5000
0
−5000
pull
Entries 50
Mean −312.6
Std Dev 342.6
4
2
0
−2
−4
−6
−8


pull1D
Entries 50
Mean 0.05836
Std Dev 2.175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 4.423e+04 / 49
p0 154.5 ± 0.1608
500
450
400
350
300
250
200
150
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5816. 2
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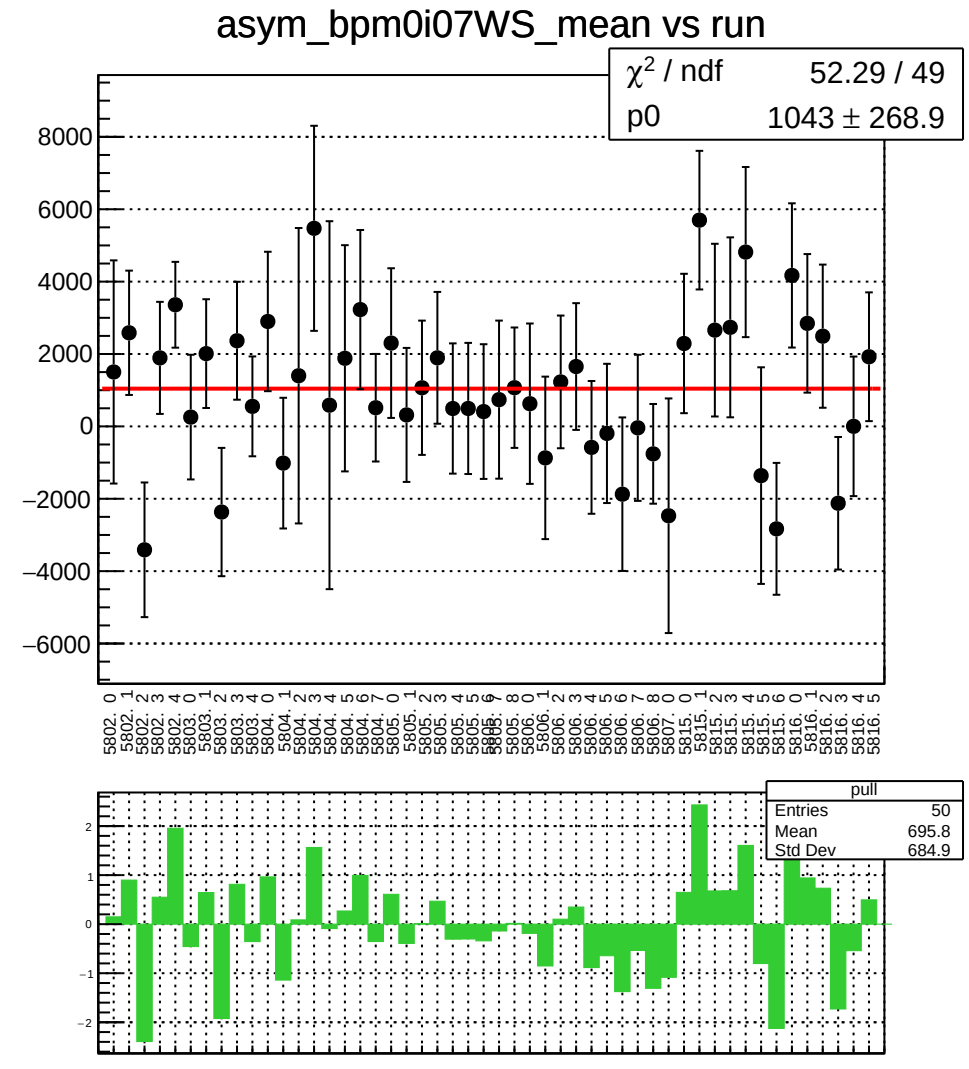
5816. 4
5816. 5


asym_bpm0i07WS_mean vs run
χ² / ndf 52.29 / 49
p0 1043 ± 268.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
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5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
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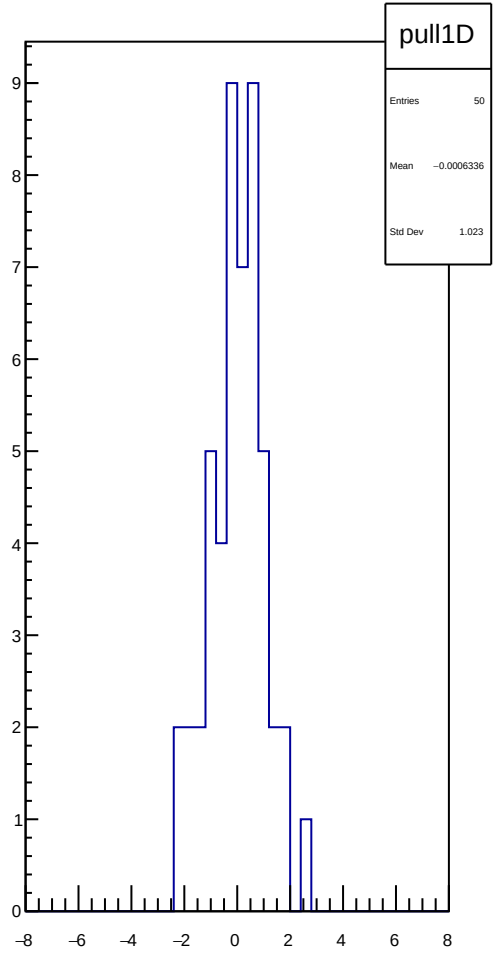
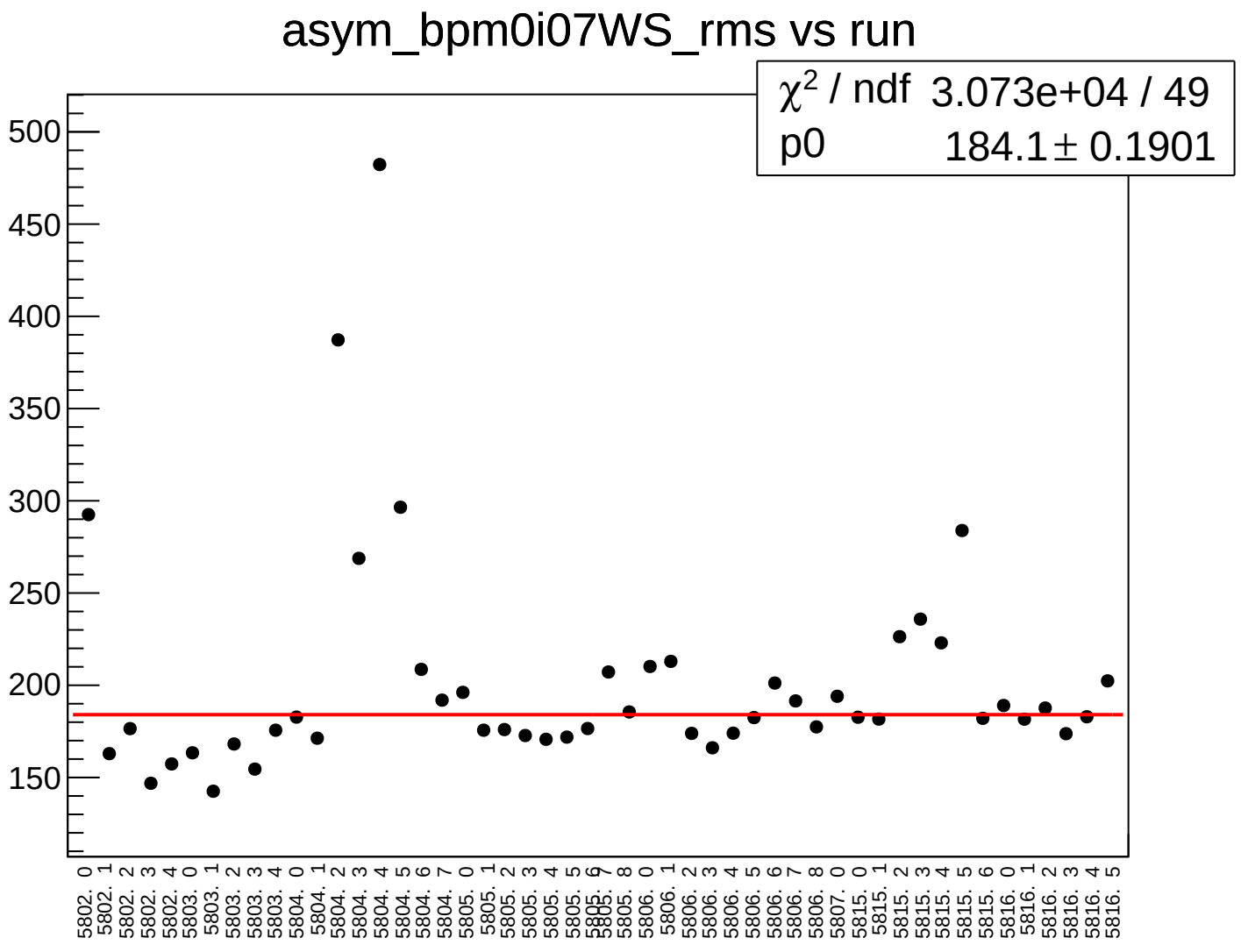
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 695.8
Std Dev 684.9
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.0006336
Std Dev 1.023
9
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 3.073e+04 / 49
p0 184.1 ± 0.1901
500
450
400
350
300
250
200
150
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
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5803. 2
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5804. 6
5804. 7
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5806. 1
5806. 2
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5806. 4
5806. 5
5806. 6
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5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5816. 2
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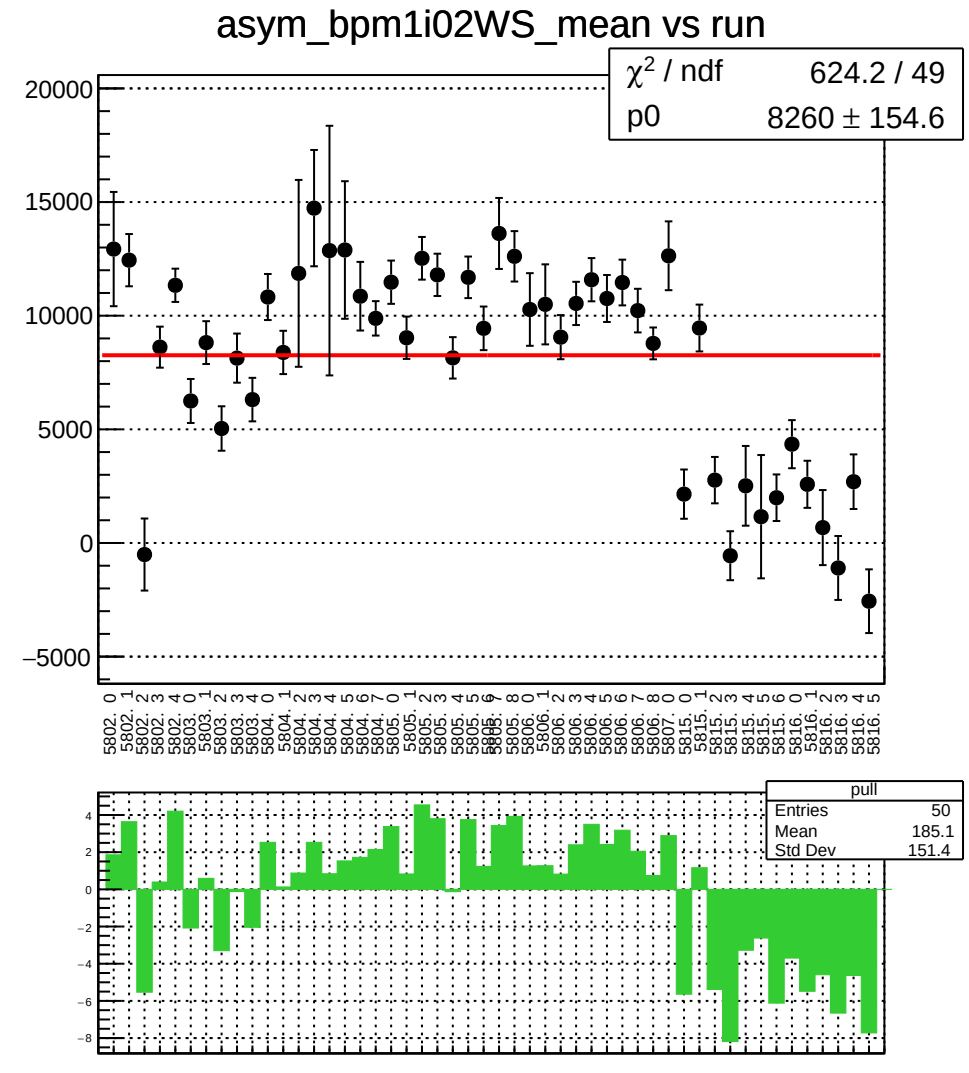
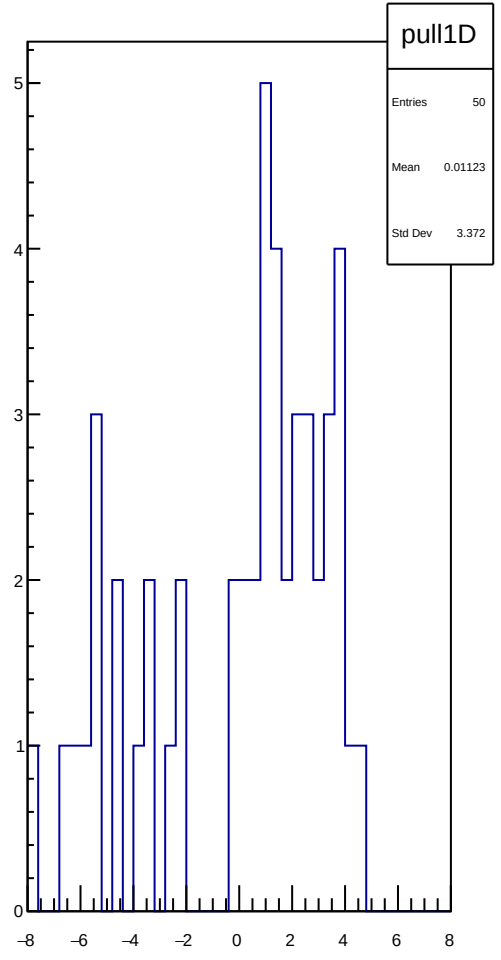
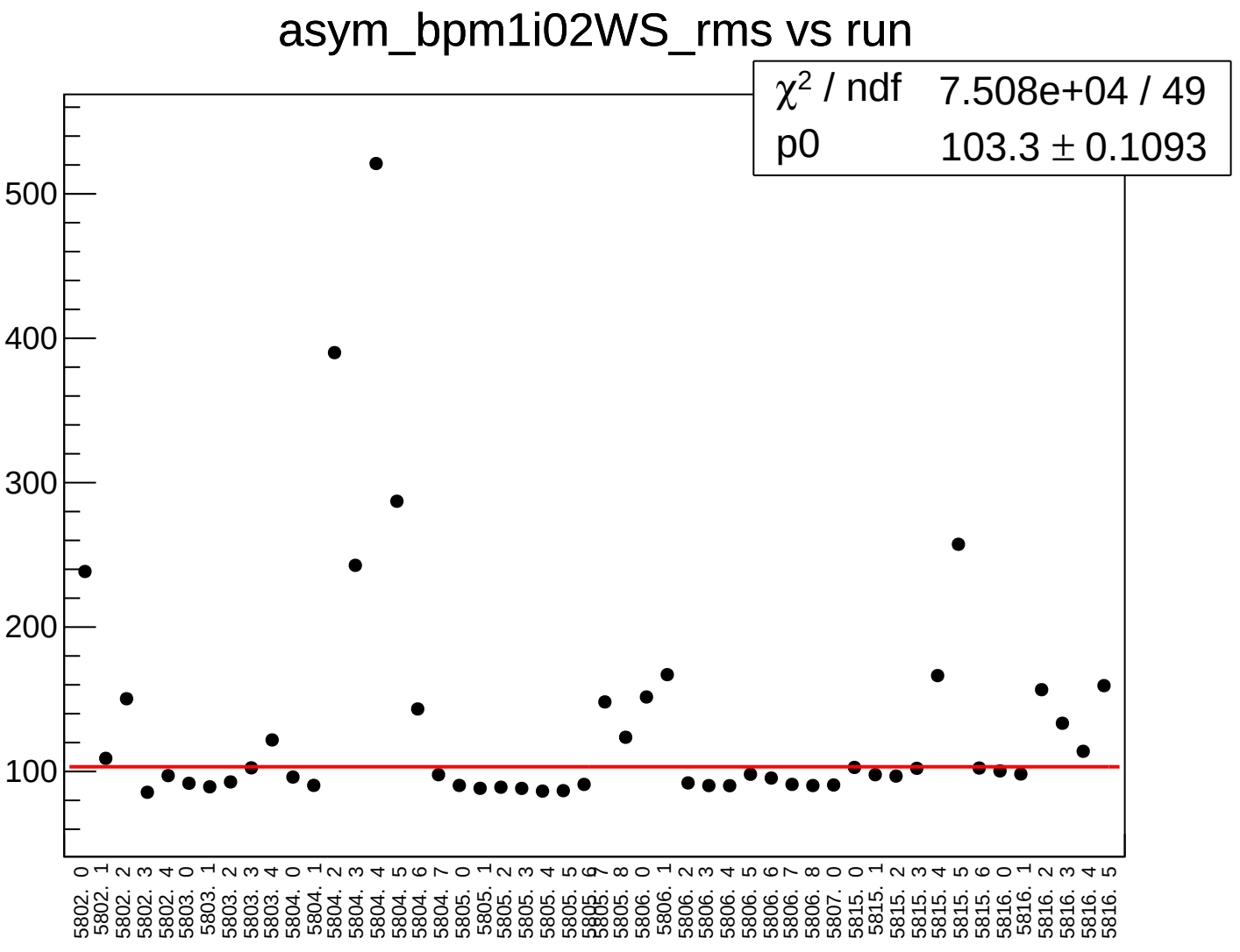
5816. 5


asym_bpm1i02WS_mean vs run
χ² / ndf 624.2 / 49
p0 8260 ± 154.6
pull
Entries 50
Mean 185.1
Std Dev 151.4


pull1D
Entries 50
Mean 0.01123
Std Dev 3.372


asym_bpm1i02WS_rms vs run
χ² / ndf 7.508e+04 / 49
p0 103.3 ± 0.1093
500
400
300
200
100
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
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5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 5
5815. 6
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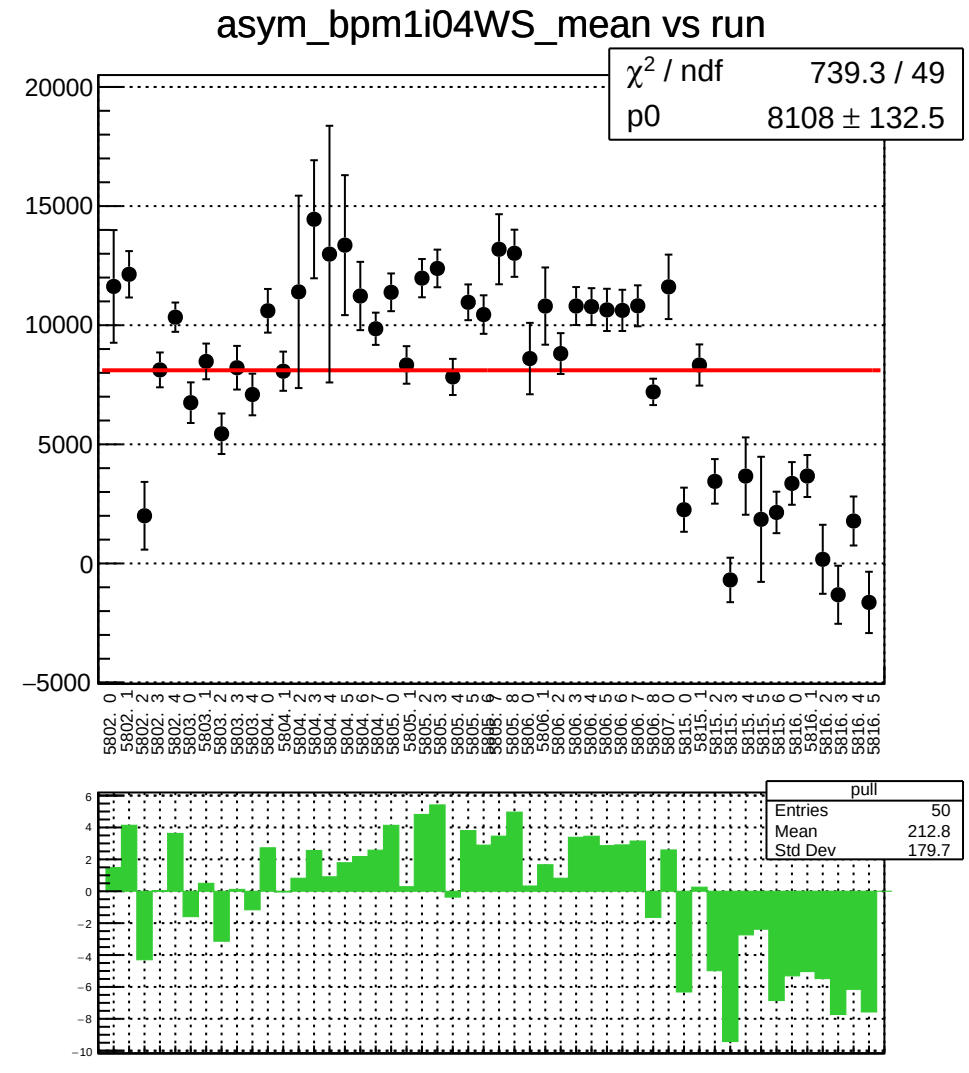
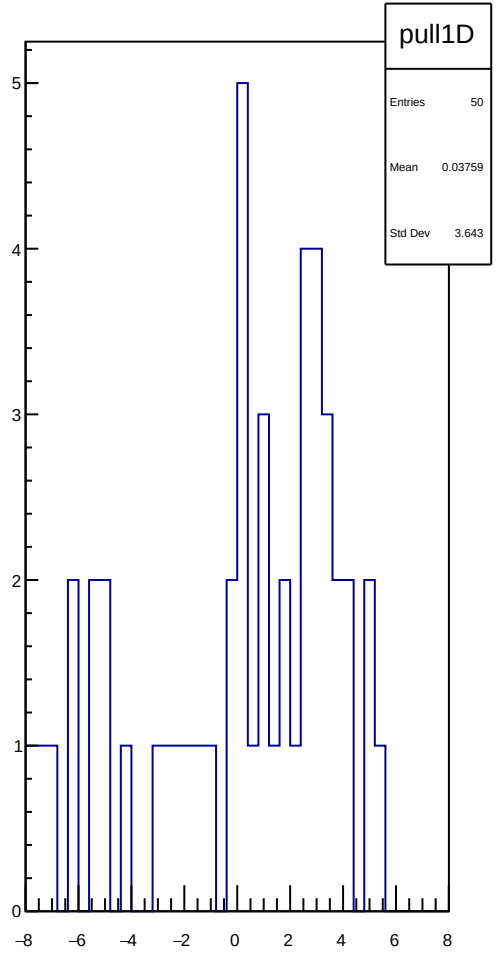
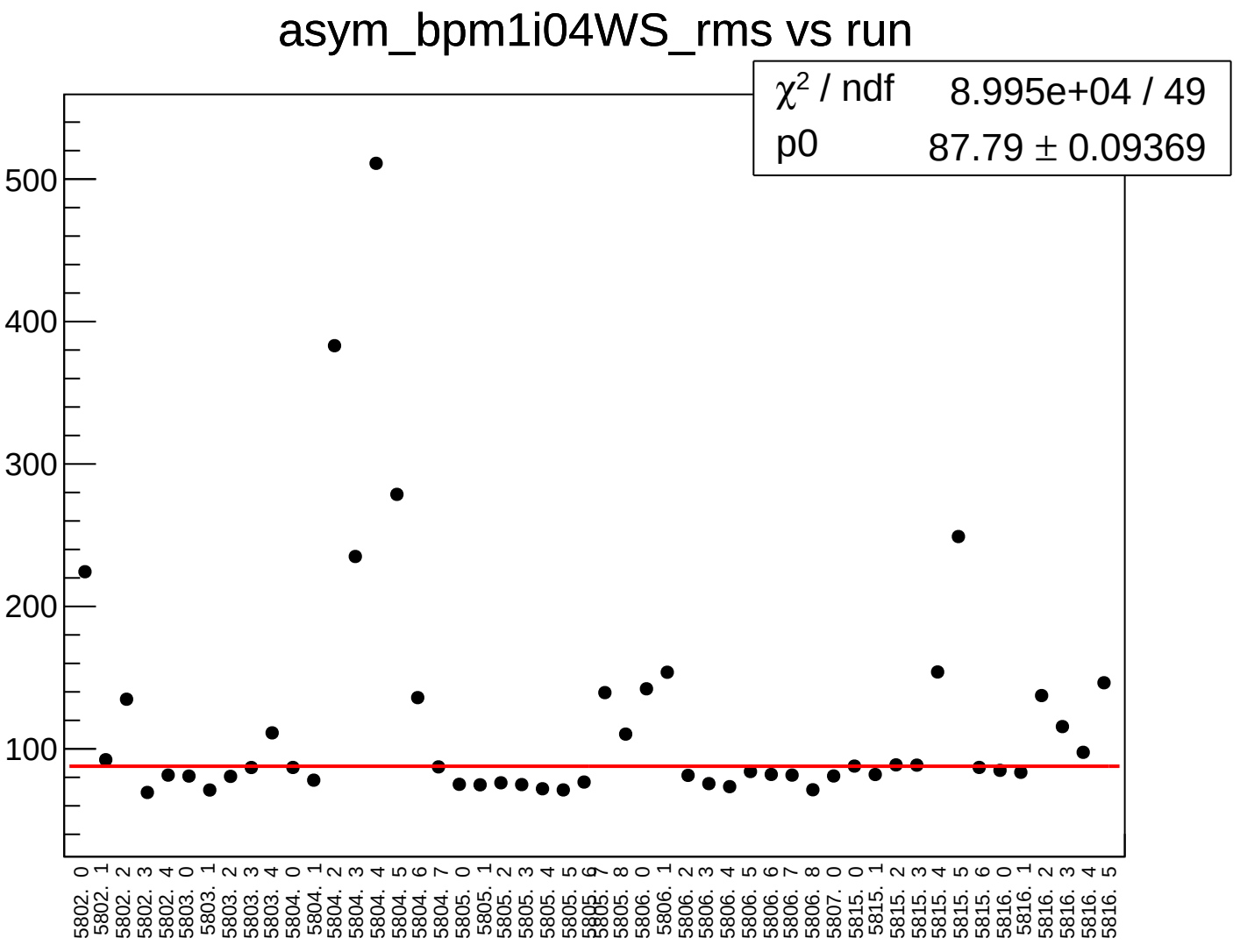
5816. 5


asym_bpm1i04WS_mean vs run
χ² / ndf 739.3 / 49
p0 8108 ± 132.5
pull
Entries 50
Mean 212.8
Std Dev 179.7


pull1D
Entries 50
Mean 0.03759
Std Dev 3.643


asym_bpm1i04WS_rms vs run
χ² / ndf 8.995e+04 / 49
p0 87.79 ± 0.09369
500
400
300
200
100
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5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
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5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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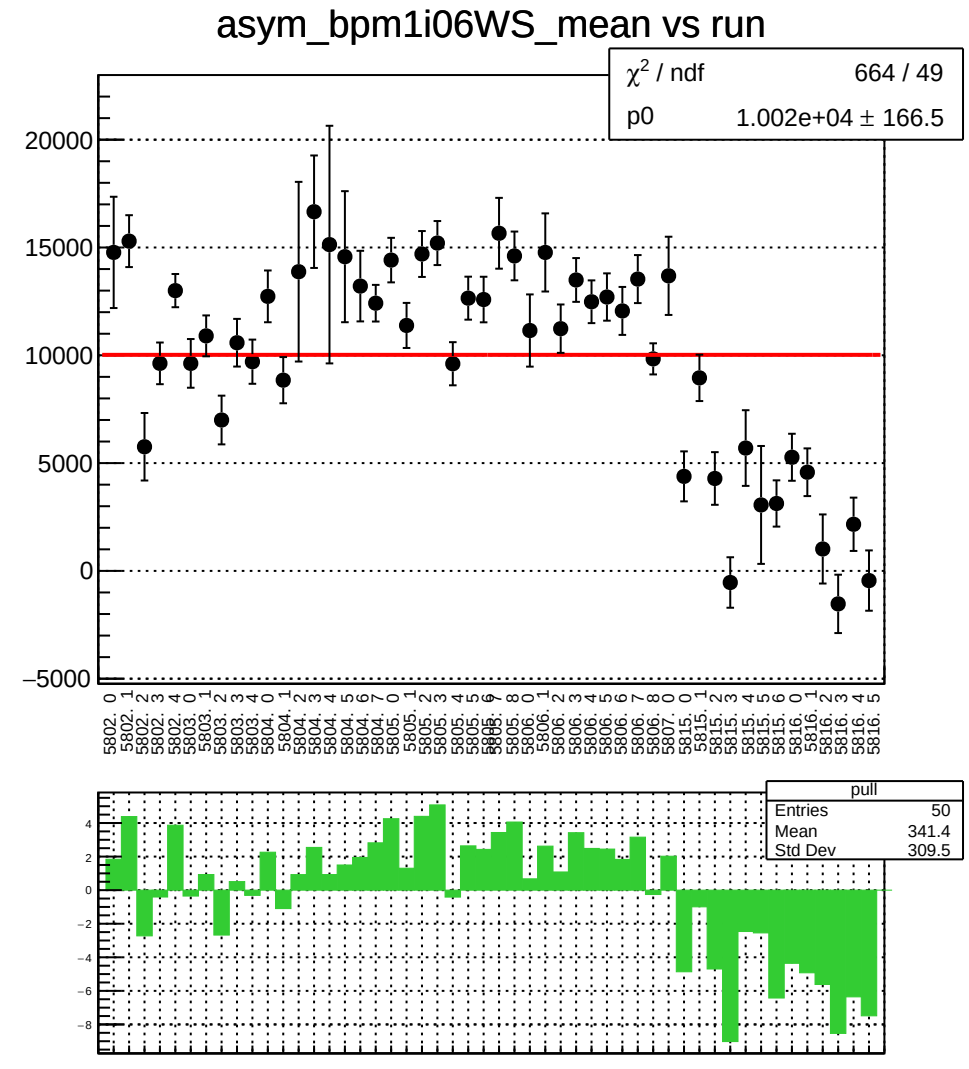
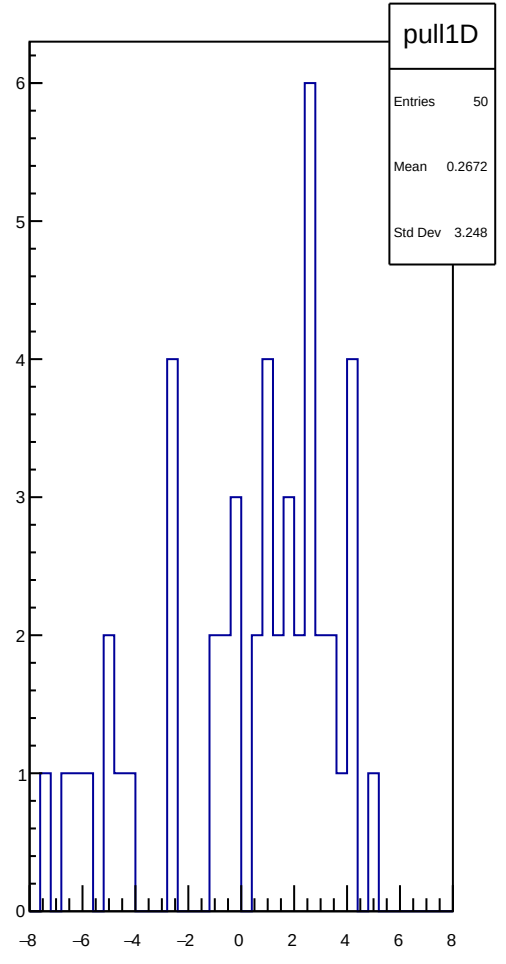
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


asym_bpm1i06WS_mean vs run
χ² / ndf 664 / 49
p0 1.002e+04 ± 166.5
20000
15000
10000
5000
0
−5000
pull
Entries 50
Mean 341.4
Std Dev 309.5
4
2
0
−2
−4
−6
−8


pull1D
Entries 50
Mean 0.2672
Std Dev 3.248
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5
4
3
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1
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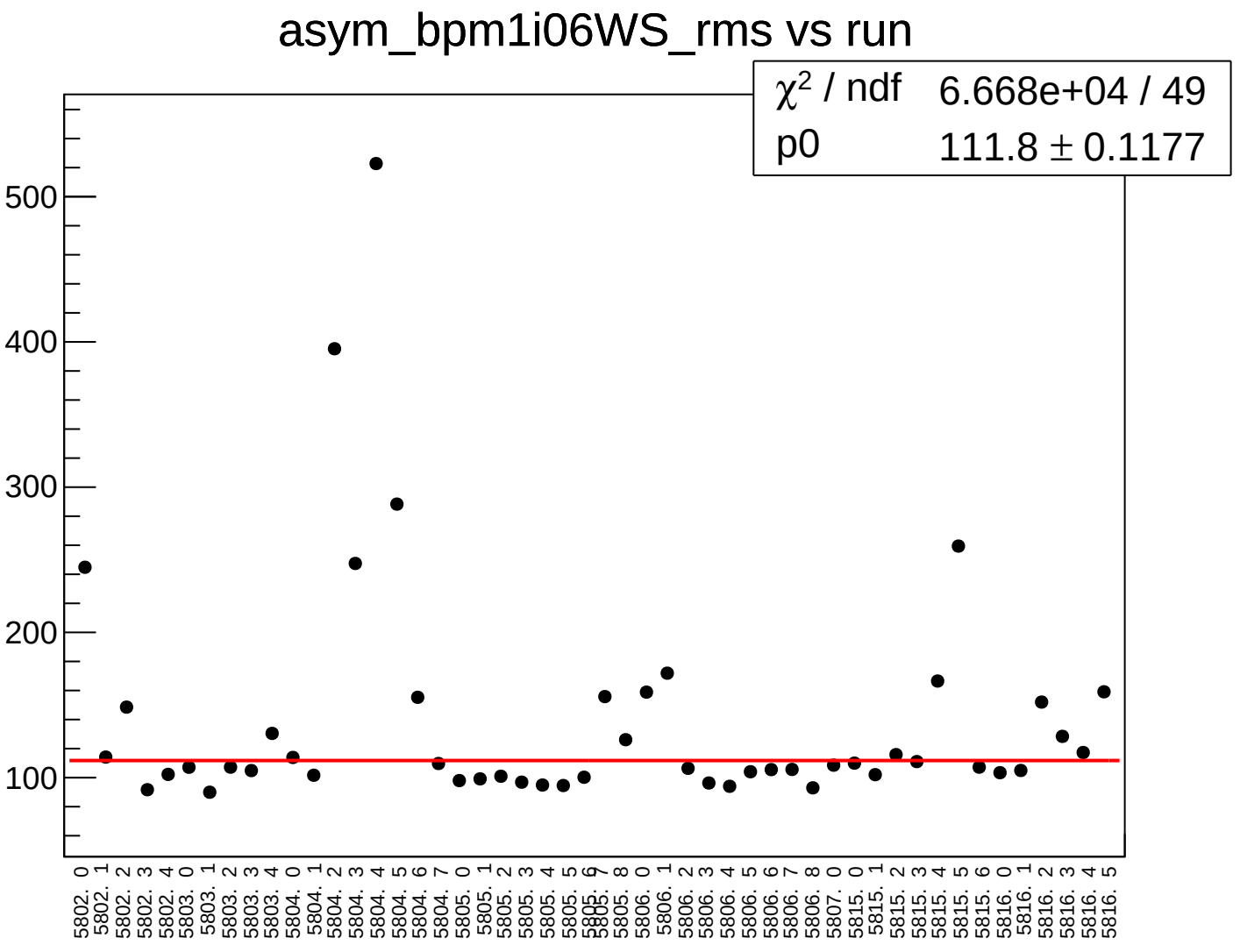
2
4
6
8


asym_bpm1i06WS_rms vs run
χ² / ndf 6.668e+04 / 49
p0 111.8 ± 0.1177
500
400
300
200
100
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5802. 1
5802. 2
5802. 3
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5803. 2
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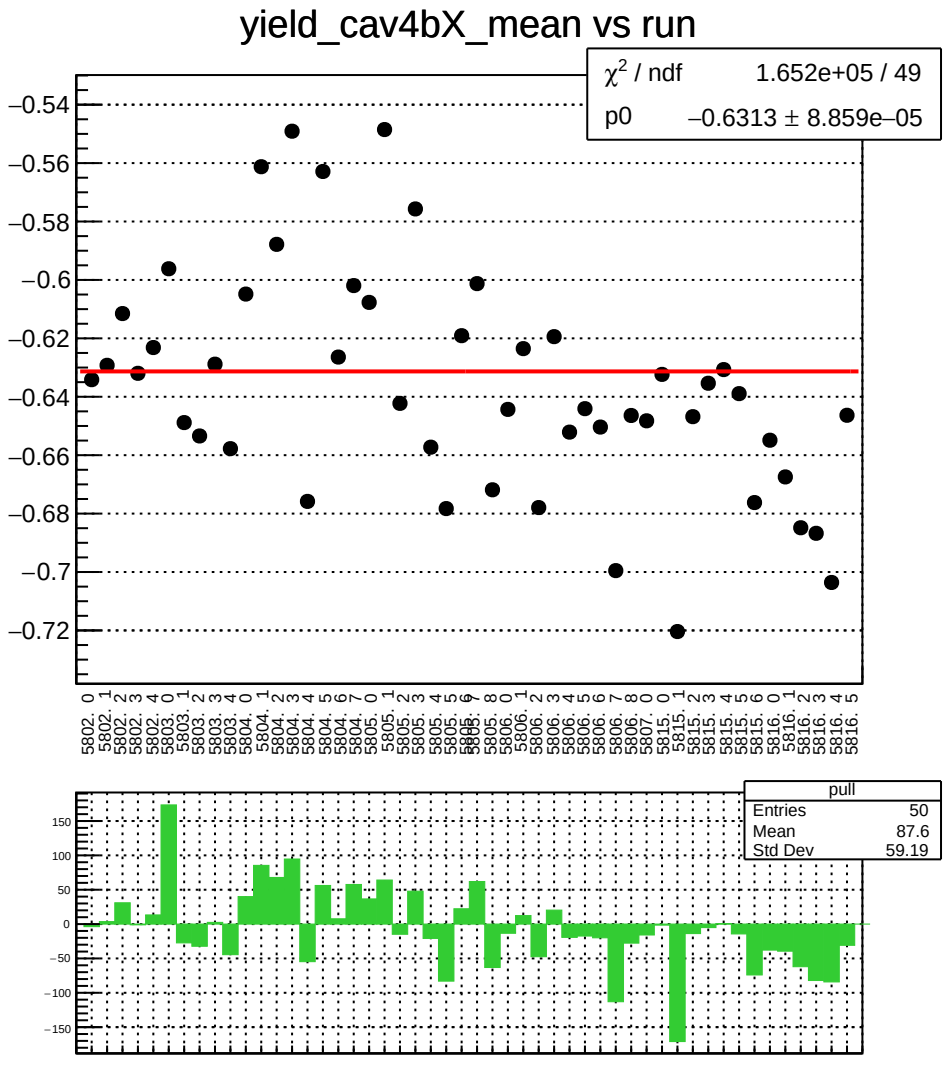
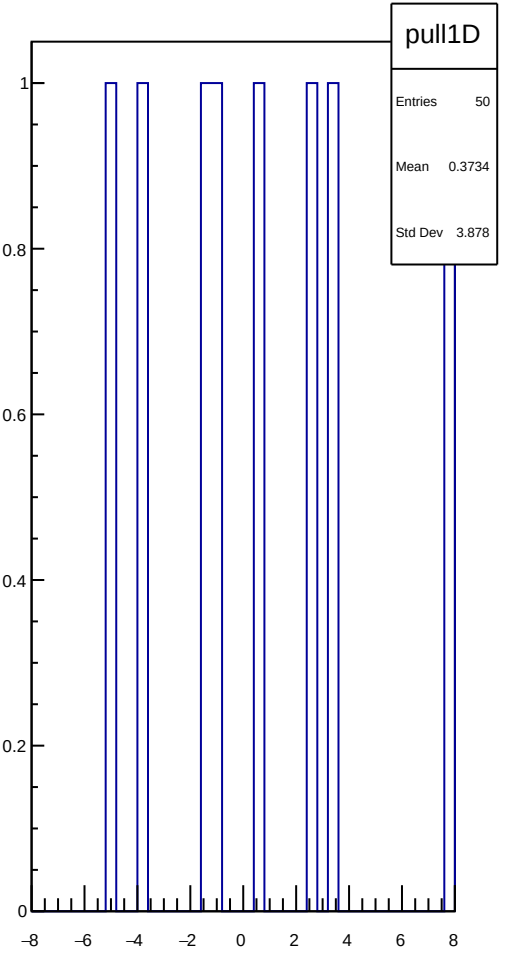
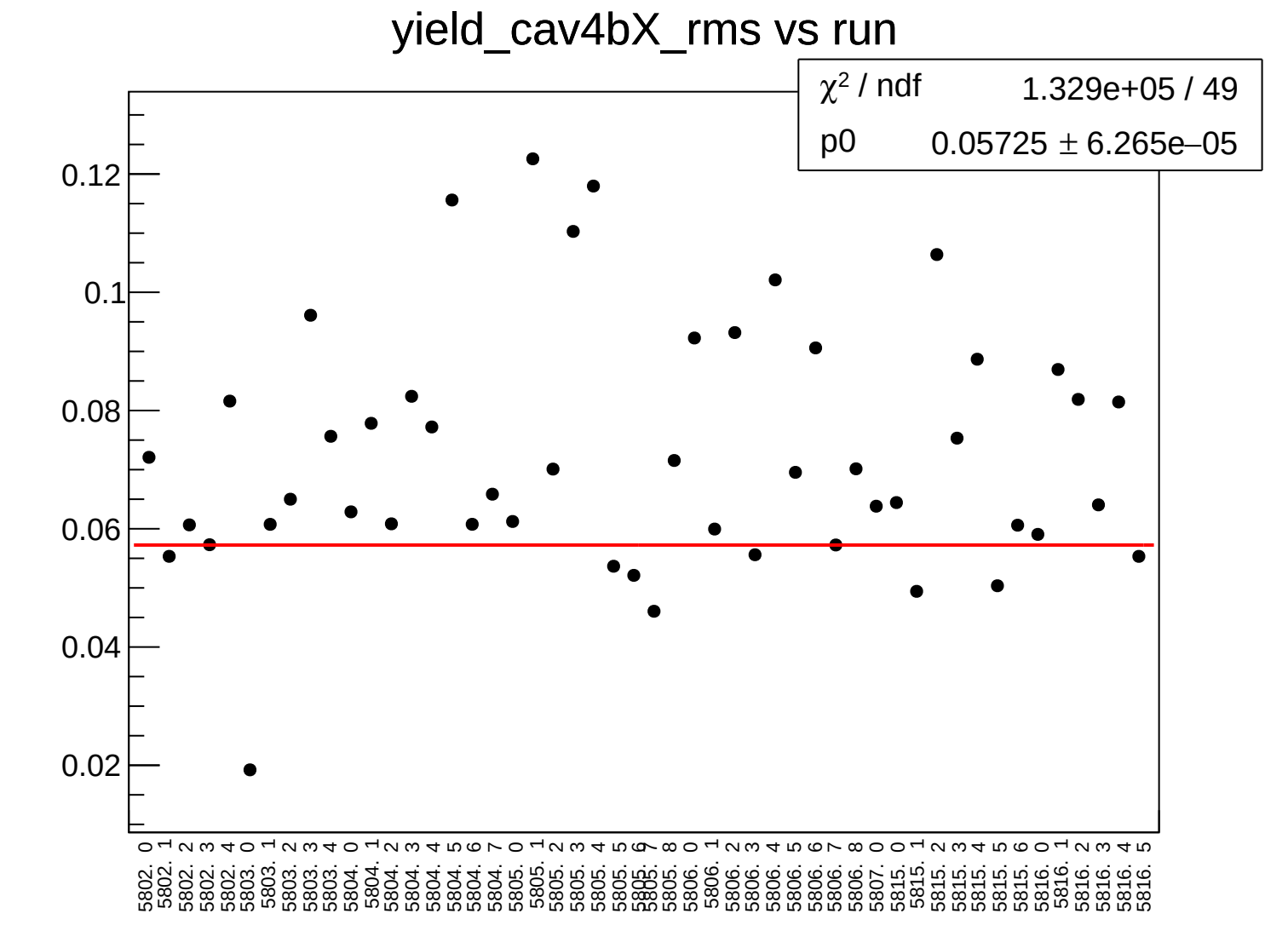
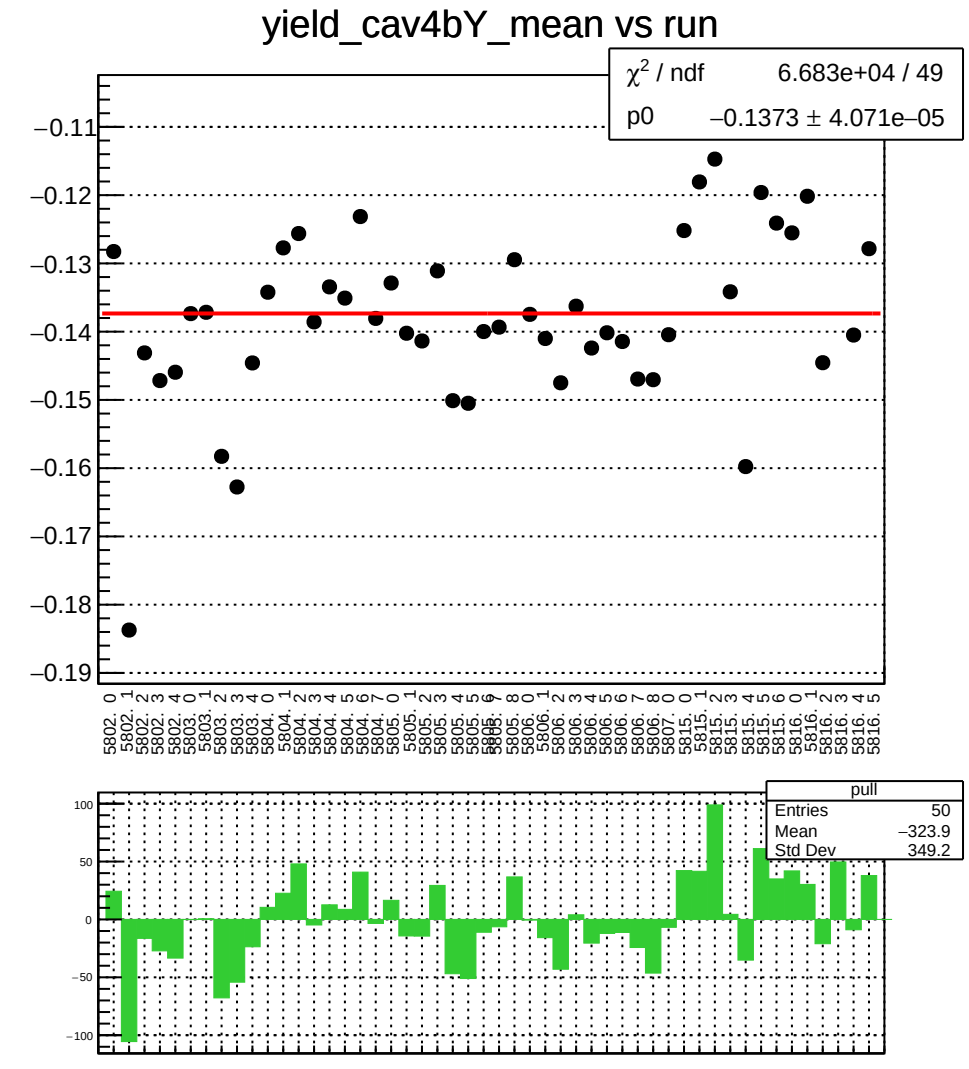
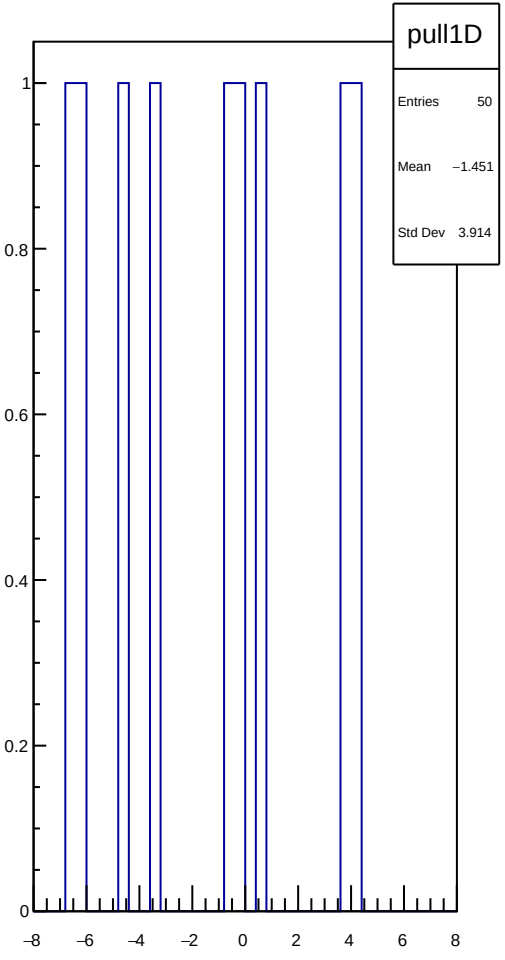
5816. 4
5816. 5

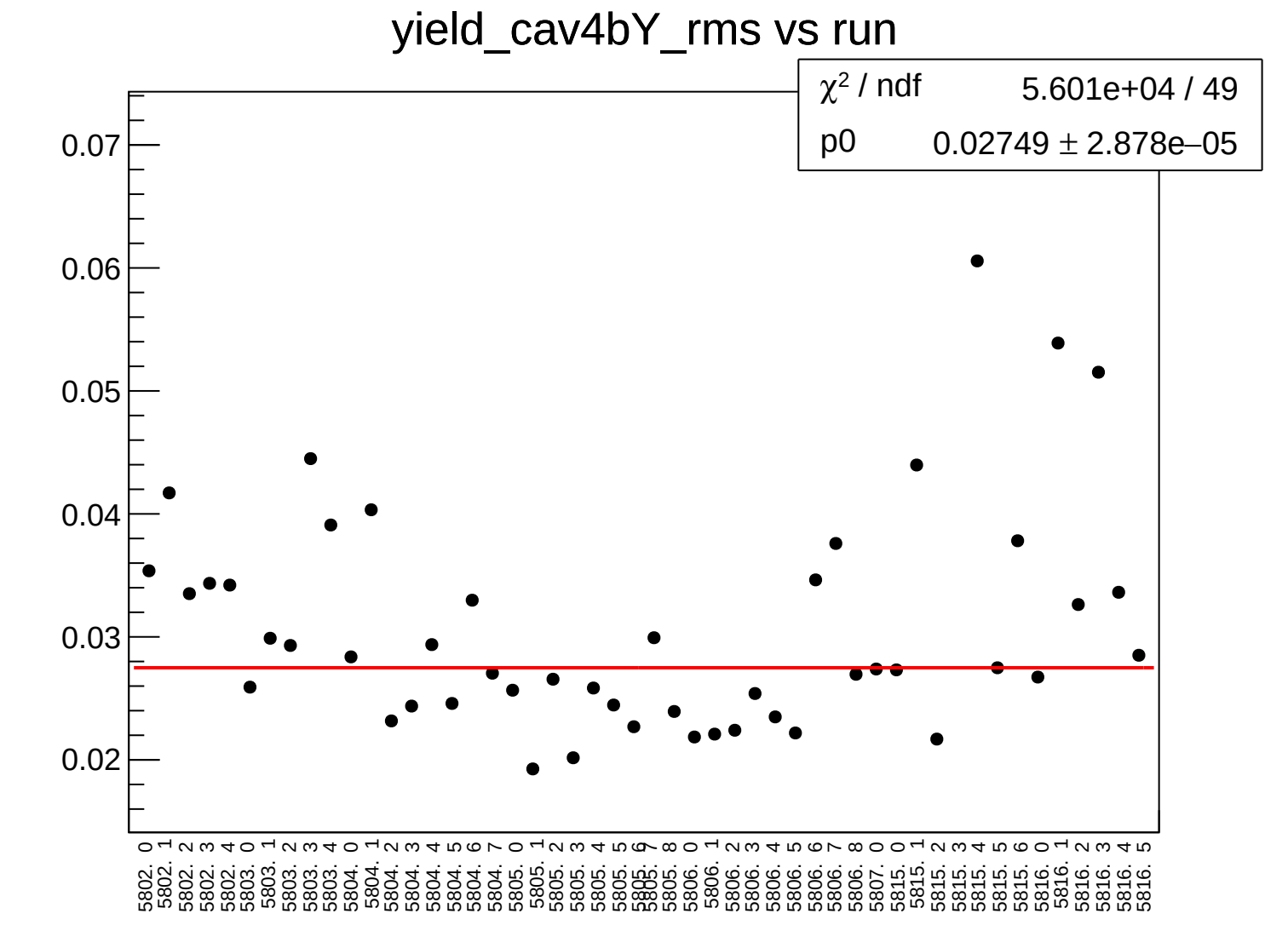

yield_cav4bX_mean vs run
χ² / ndf 1.652e+05 / 49
p0 −0.6313 ± 8.859e−05
pull
Entries 50
Mean 87.6
Std Dev 59.19

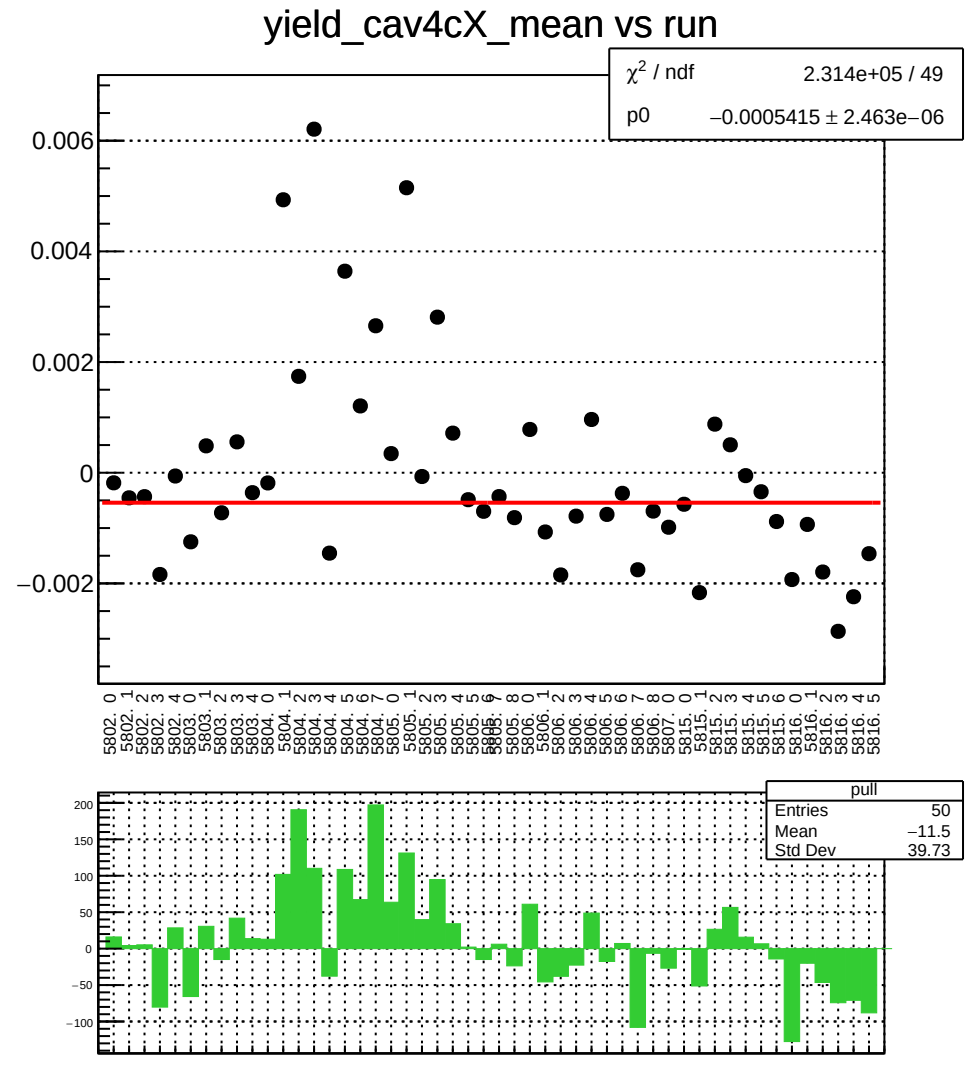

pull1D
Entries 50
Mean 0.3734
Std Dev 3.878

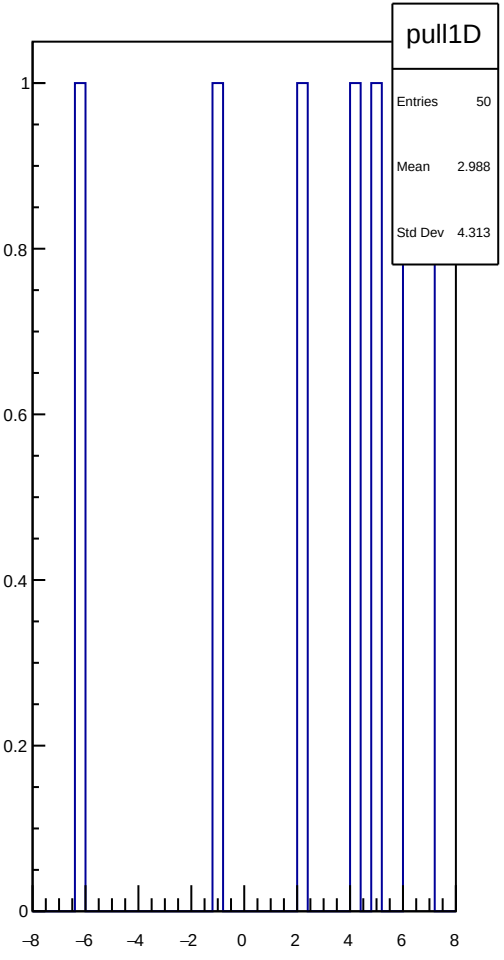

yield_cav4bX_rms vs run
χ² / ndf 1.329e+05 / 49
p0 0.05725 ± 6.265e−05
0.12
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

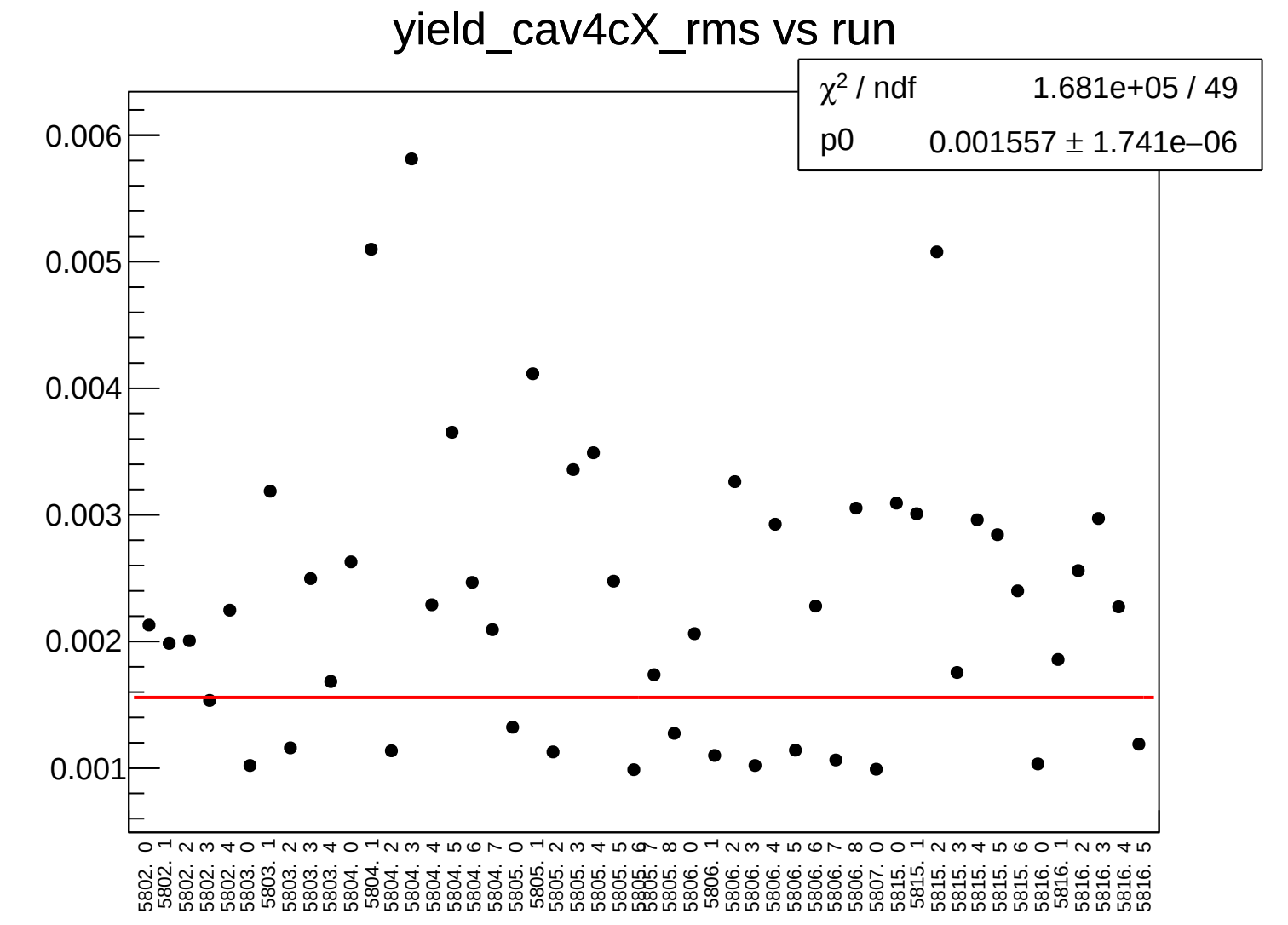

yield_cav4bY_mean vs run
χ² / ndf 6.683e+04 / 49
p0 −0.1373 ± 4.071e−05
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
pull
Entries 50
Mean −323.9
Std Dev 349.2
100
50
0
−50
−100

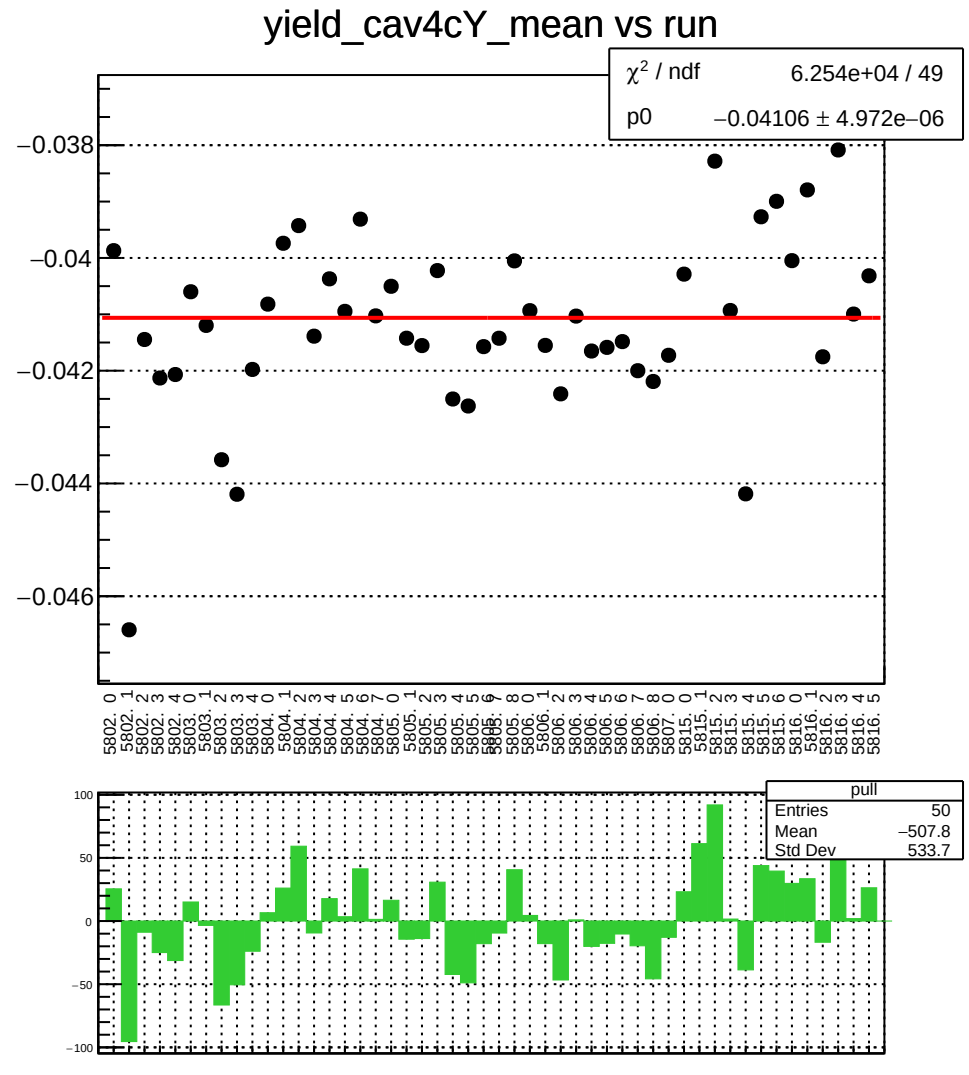

pull1D
Entries 50
Mean −1.451
Std Dev 3.914
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

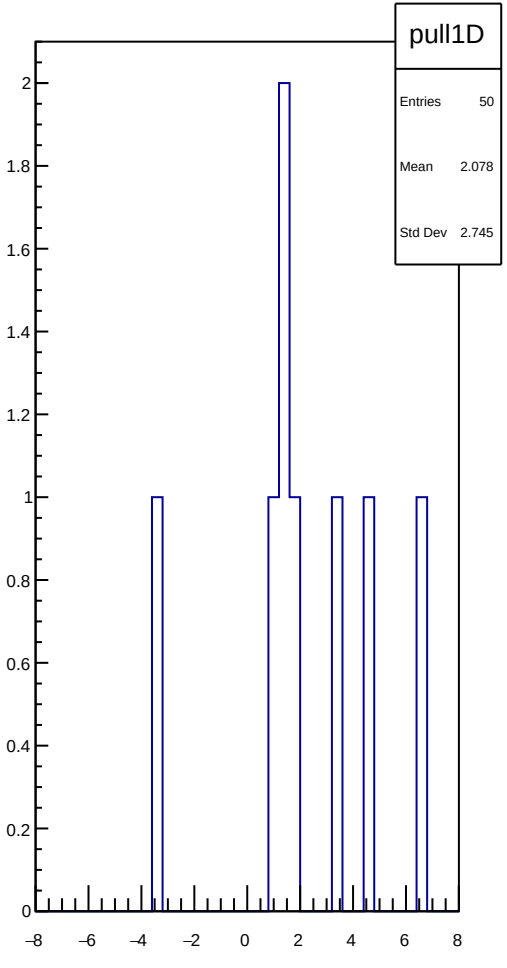

yield_cav4bY_rms vs run
χ² / ndf 5.601e+04 / 49
p0 0.02749 ± 2.878e–05
0.07
0.06
0.05
0.04
0.03
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

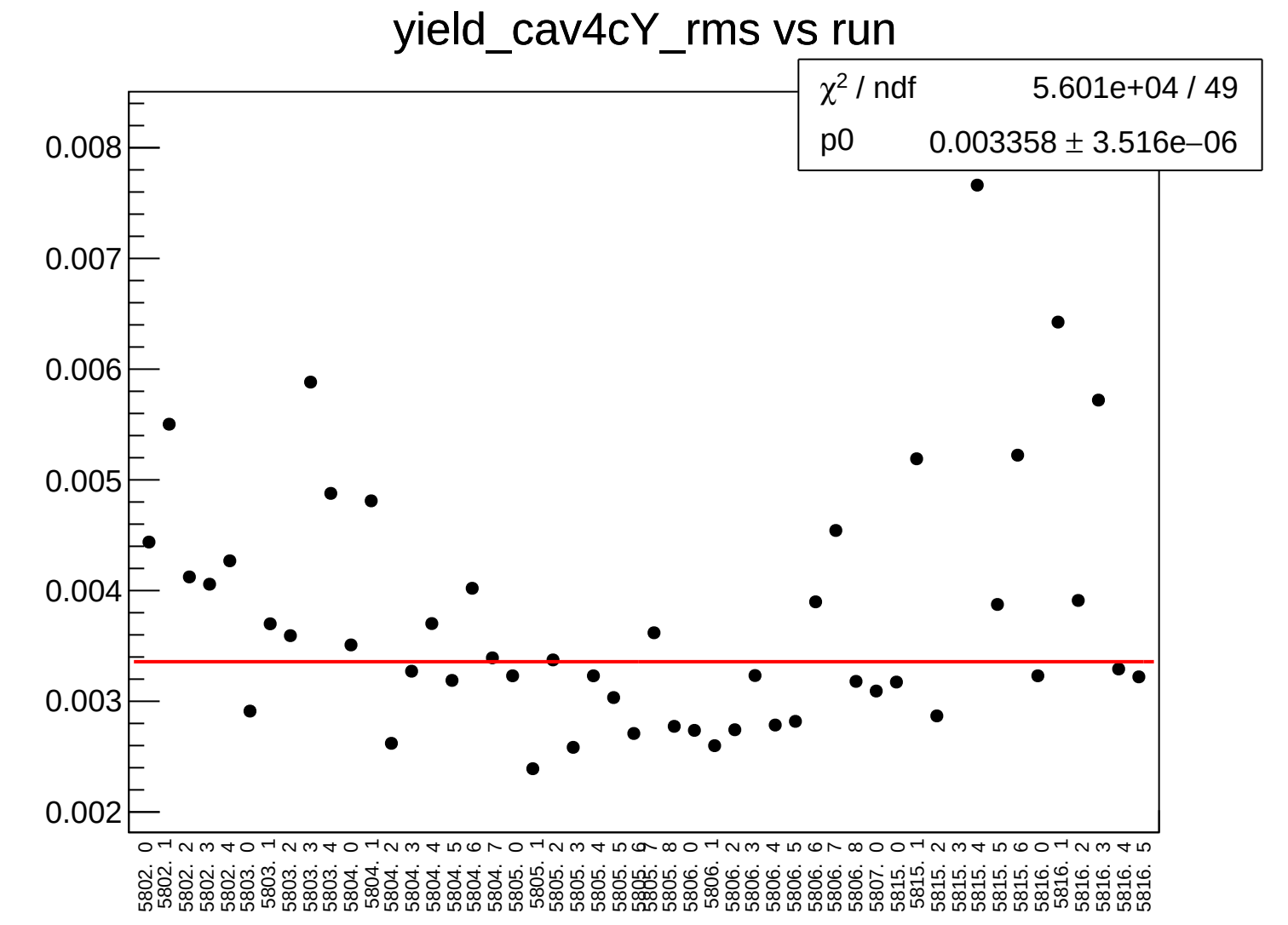

yield_cav4cX_mean vs run
χ² / ndf 2.314e+05 / 49
p0 −0.0005415 ± 2.463e−06
0.006
0.004
0.002
0
−0.002
pull
Entries 50
Mean −11.5
Std Dev 39.73
200
150
100
50
0
−50
−100

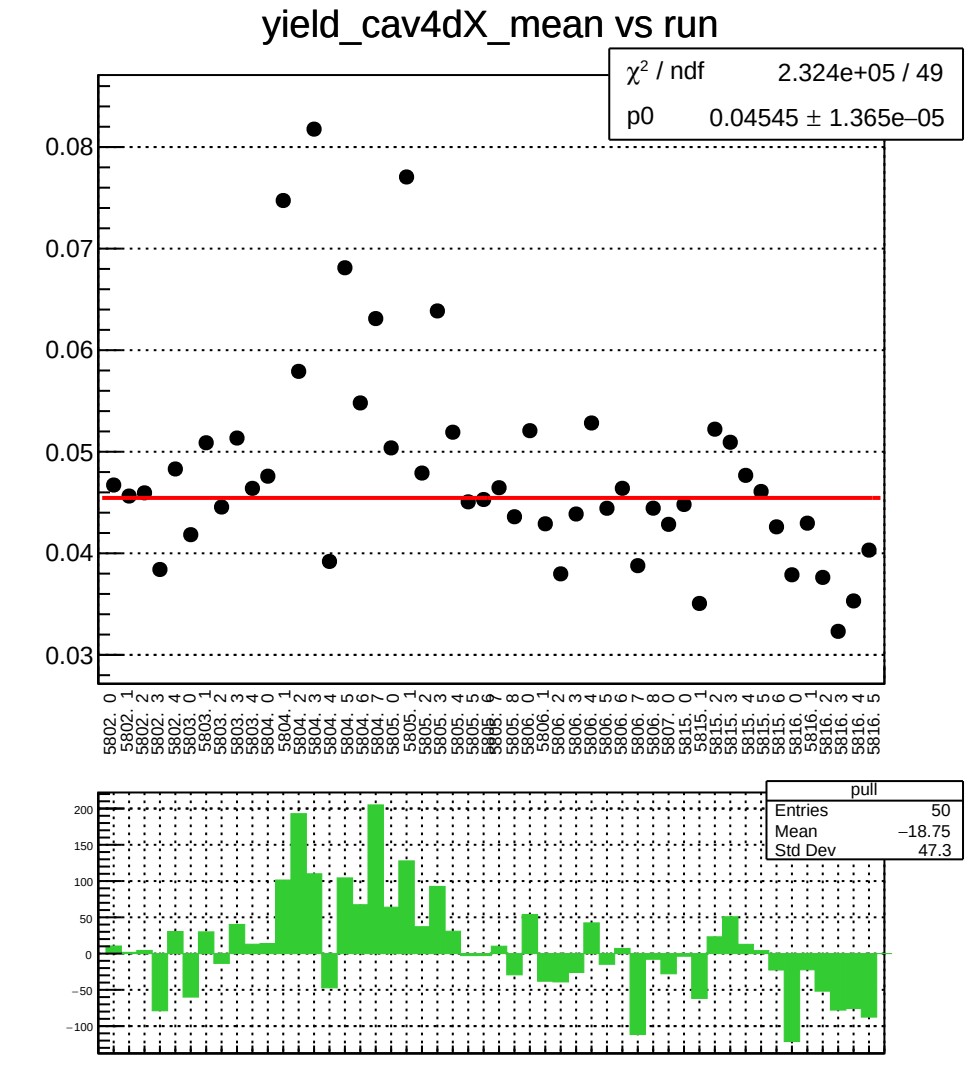

pull1D
Entries 50
Mean 2.988
Std Dev 4.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

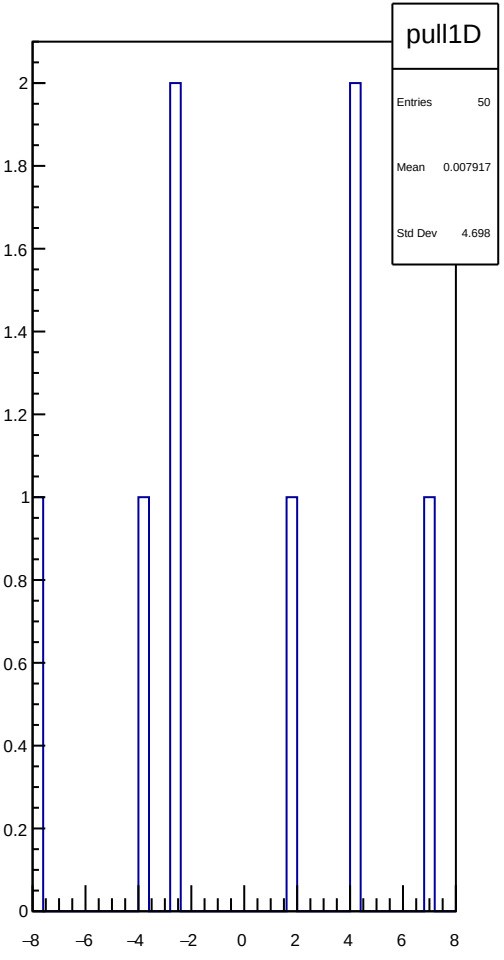

yield_cav4cX_rms vs run
χ² / ndf 1.681e+05 / 49
p0 0.001557 ± 1.741e−06
0.006
0.005
0.004
0.003
0.002
0.001
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

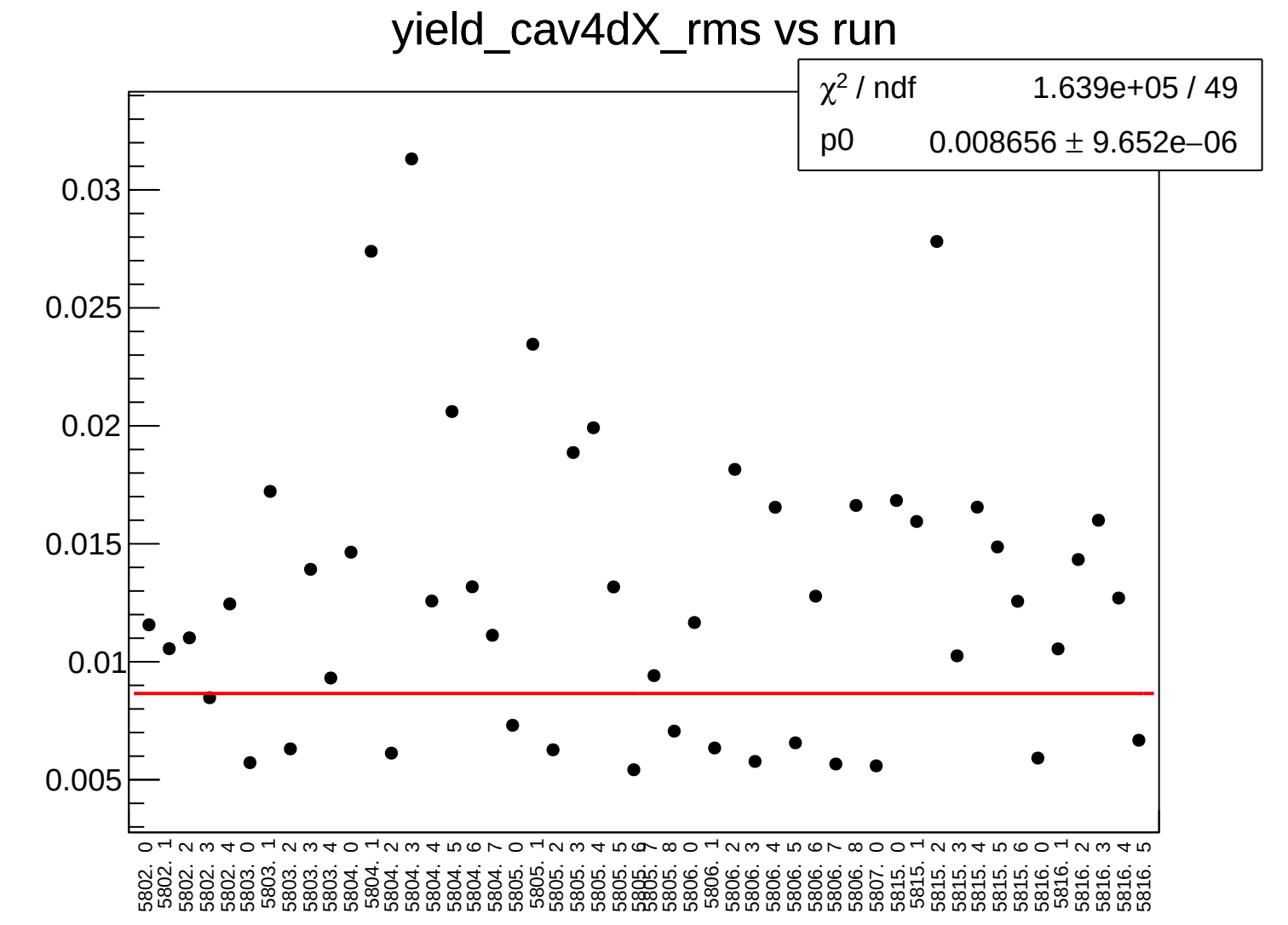

yield_cav4cY_mean vs run
χ² / ndf 6.254e+04 / 49
p0 −0.04106 ± 4.972e−06
−0.038
−0.04
−0.042
−0.044
−0.046
pull
Entries 50
Mean −507.8
Std Dev 533.7
100
50
0
−50
−100

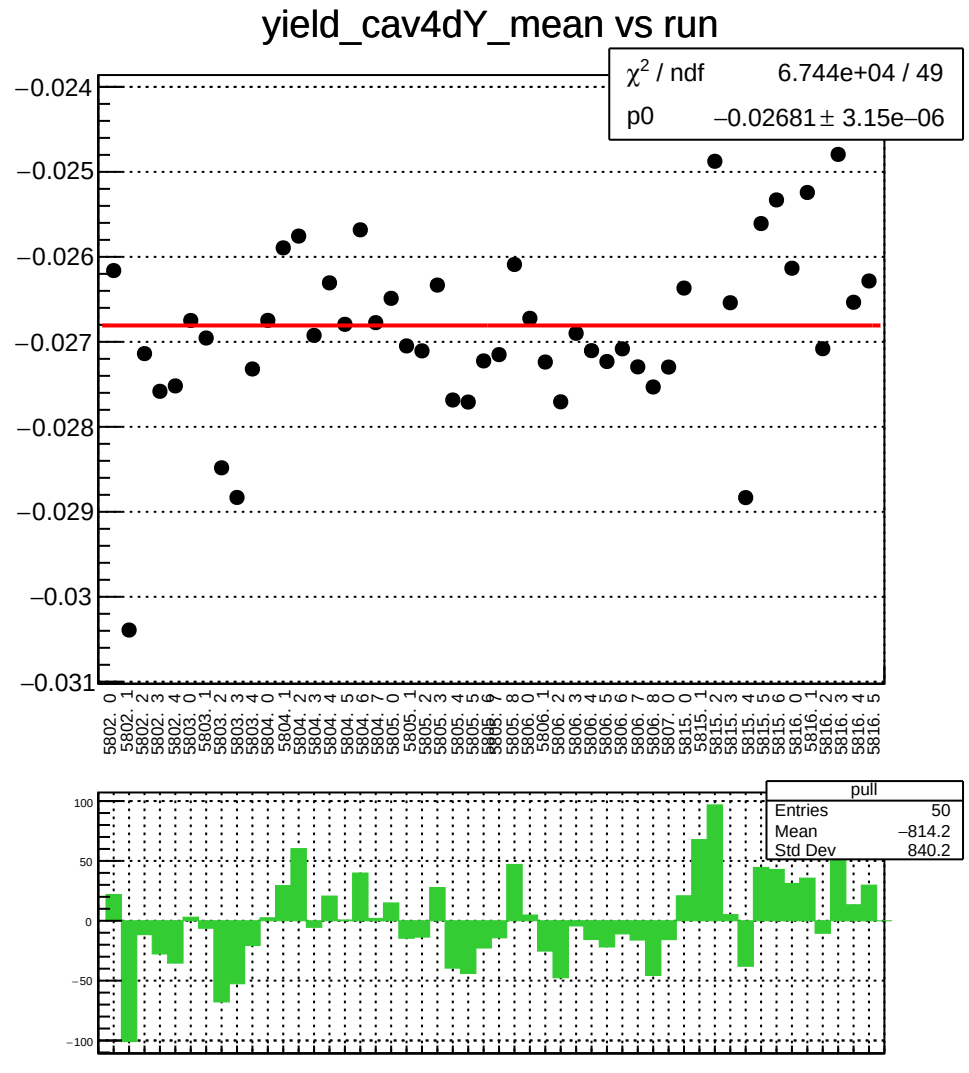

pull1D
Entries 50
Mean 2.078
Std Dev 2.745
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

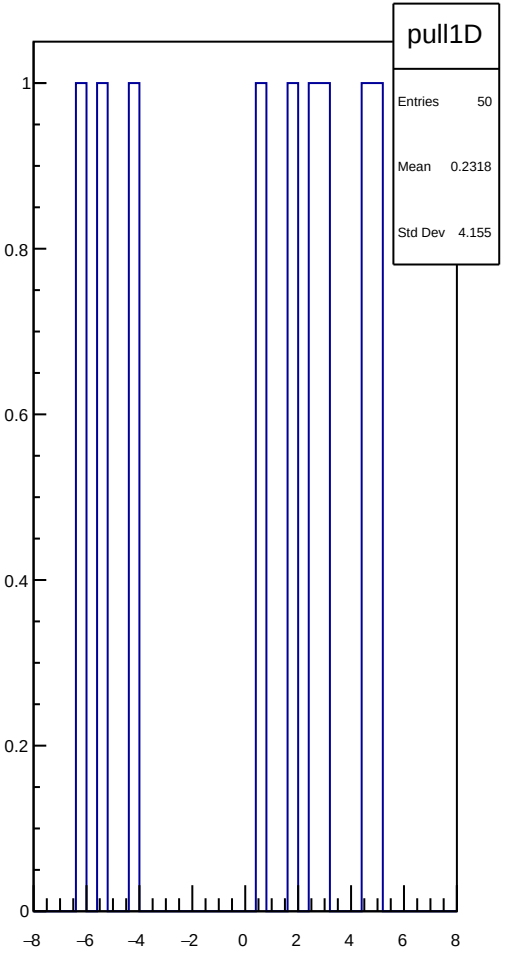

yield_cav4cY_rms vs run
χ² / ndf 5.601e+04 / 49
p0 0.003358 ± 3.516e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

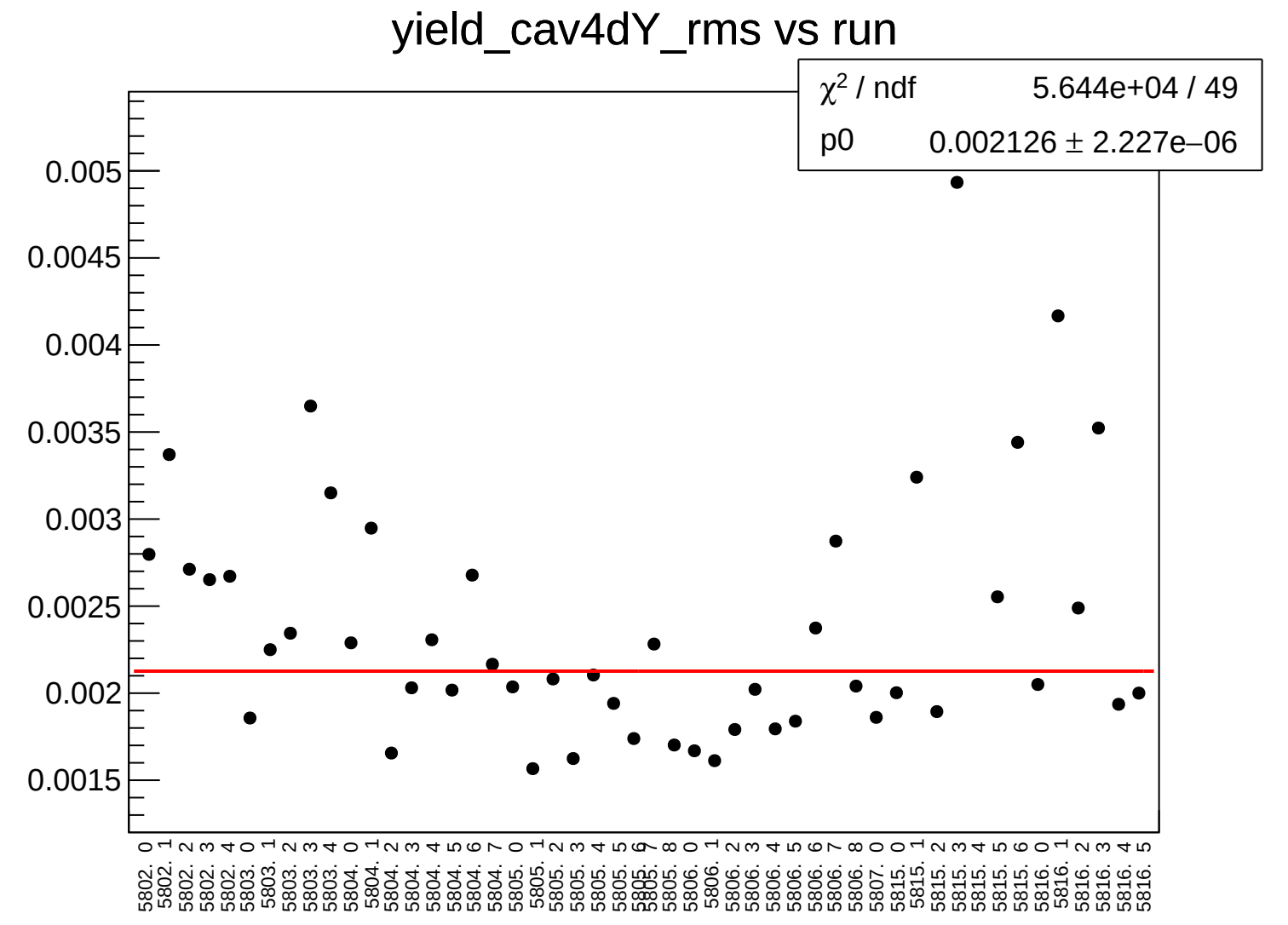

yield_cav4dX_mean vs run
χ² / ndf 2.324e+05 / 49
p0 0.04545 ± 1.365e−05
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 50
Mean −18.75
Std Dev 47.3
200
150
100
50
0
−50
−100

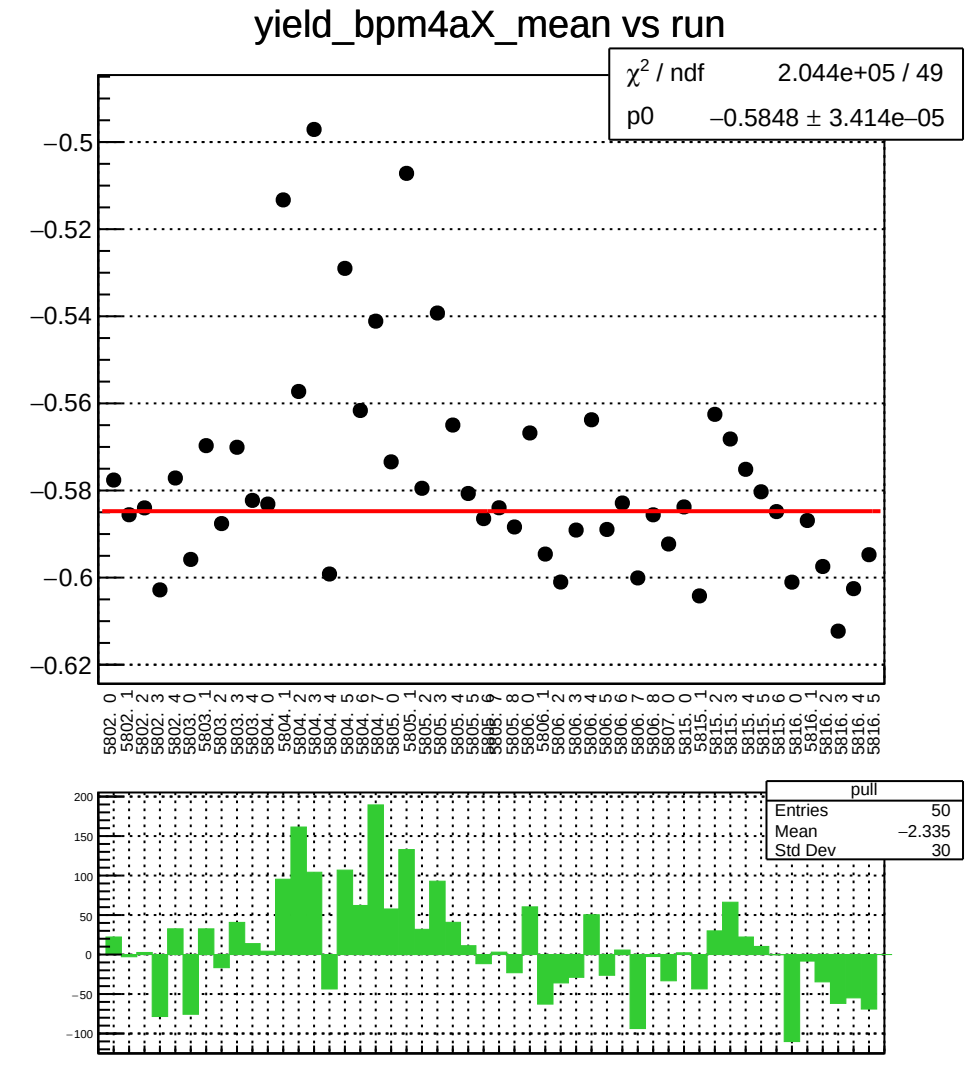

pull1D
Entries 50
Mean 0.007917
Std Dev 4.698
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

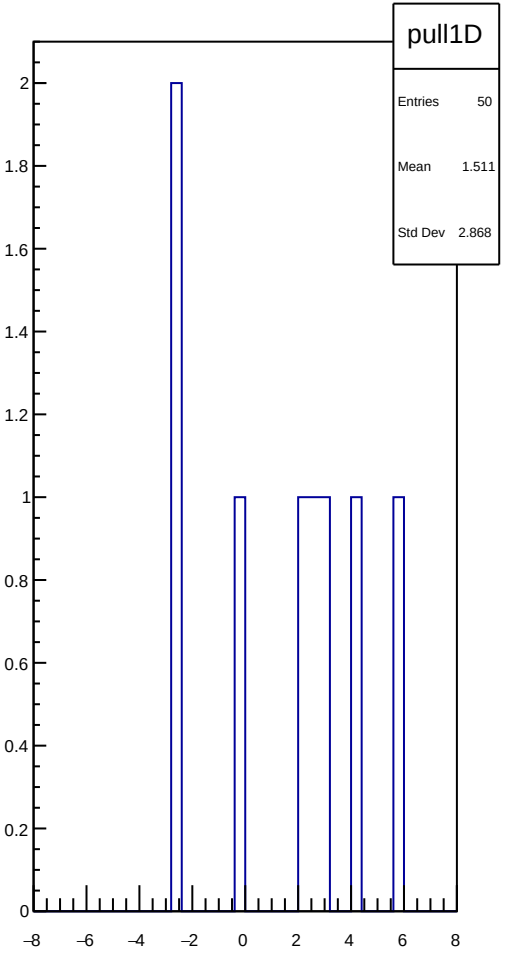

yield_cav4dX_rms vs run
χ² / ndf 1.639e+05 / 49
p0 0.008656 ± 9.652e−06
0.03
0.025
0.02
0.015
0.01
0.005
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

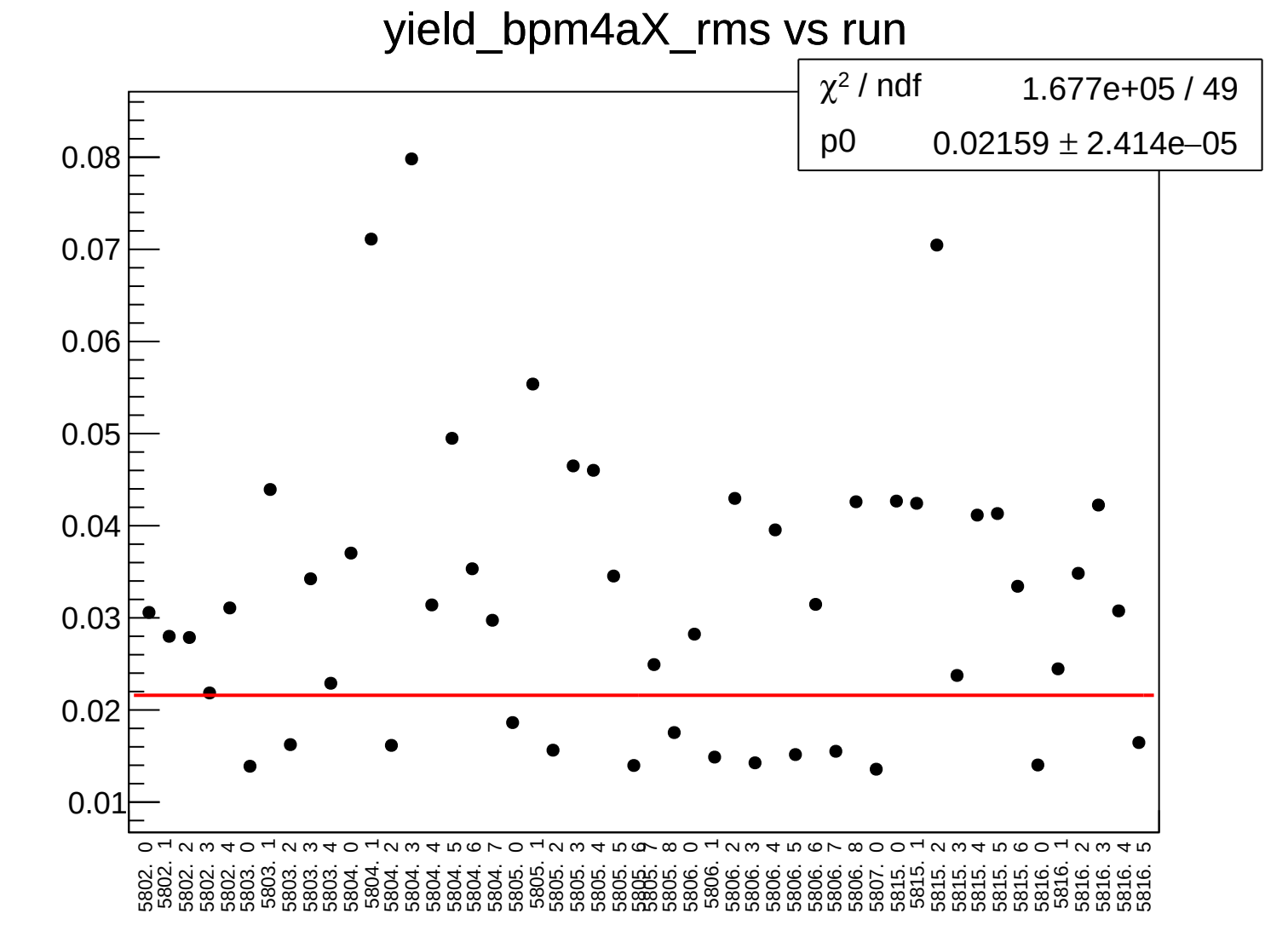

yield_cav4dY_mean vs run
χ² / ndf 6.744e+04 / 49
p0 −0.02681 ± 3.15e−06
−0.024
−0.025
−0.026
−0.027
−0.028
−0.029
−0.03
−0.031
pull
Entries 50
Mean −814.2
Std Dev 840.2
100
50
0
−50
−100

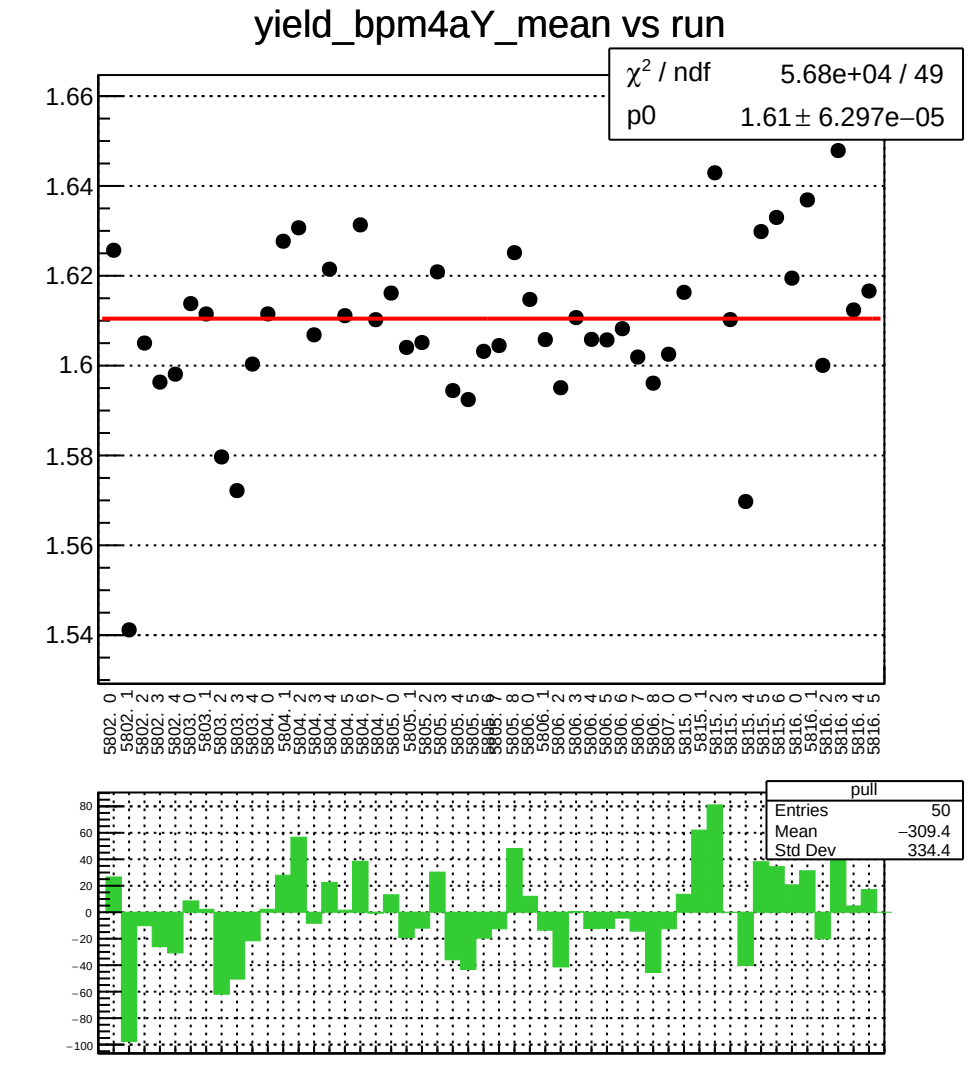

pull1D
Entries 50
Mean 0.2318
Std Dev 4.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

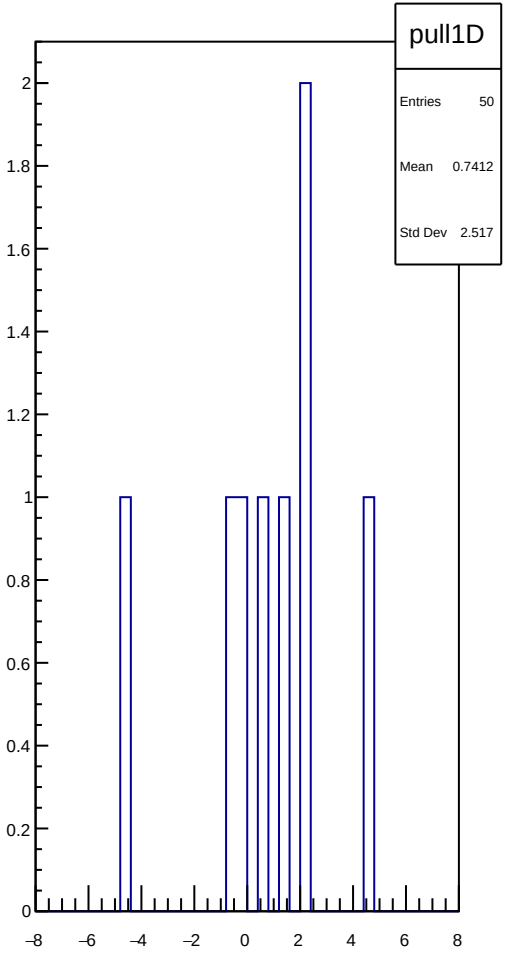

yield_cav4dY_rms vs run
χ² / ndf 5.644e+04 / 49
p0 0.002126 ± 2.227e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

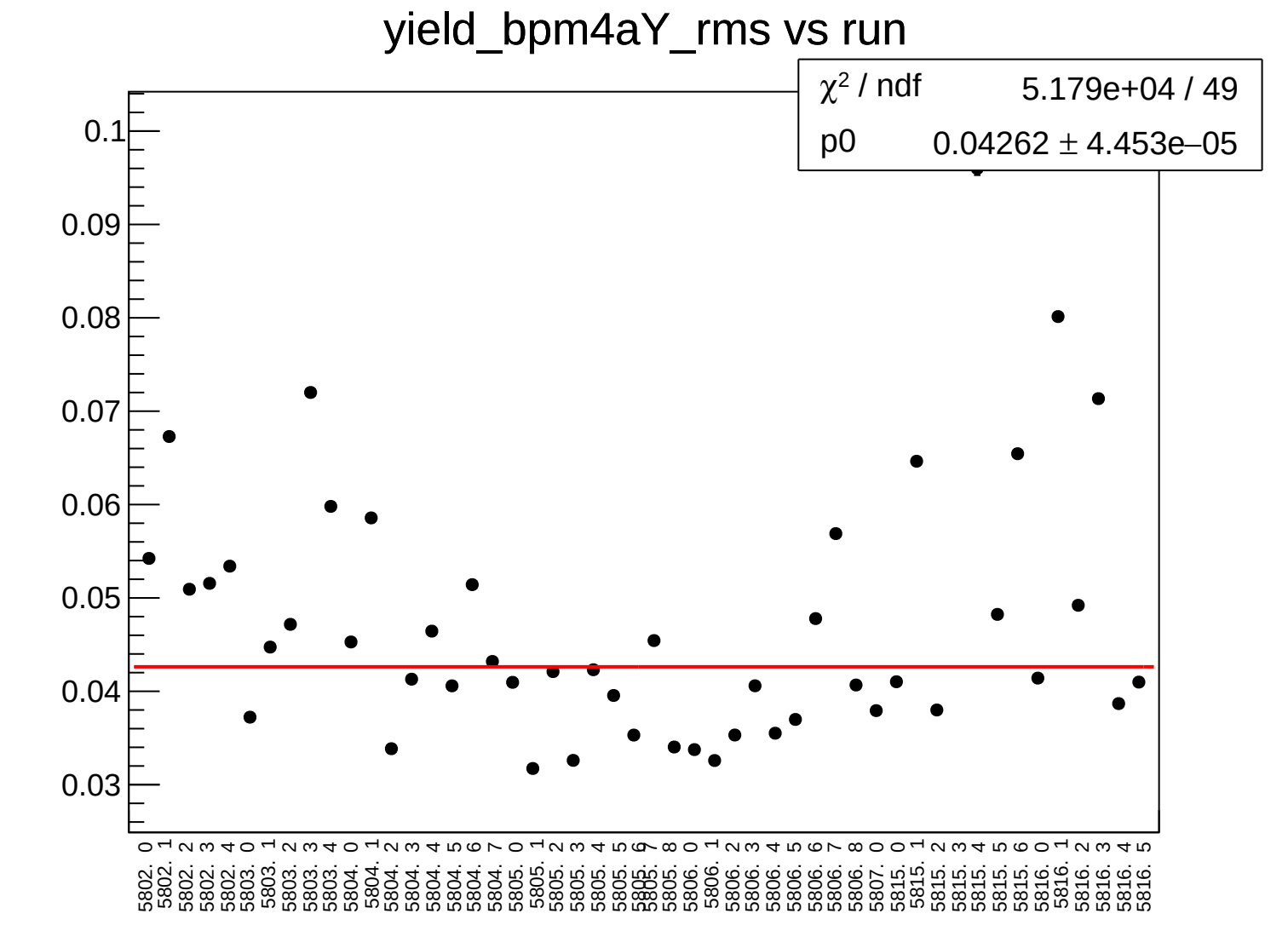

yield_bpm4aX_mean vs run
χ² / ndf 2.044e+05 / 49
p0 −0.5848 ± 3.414e−05
pull
Entries 50
Mean −2.335
Std Dev 30

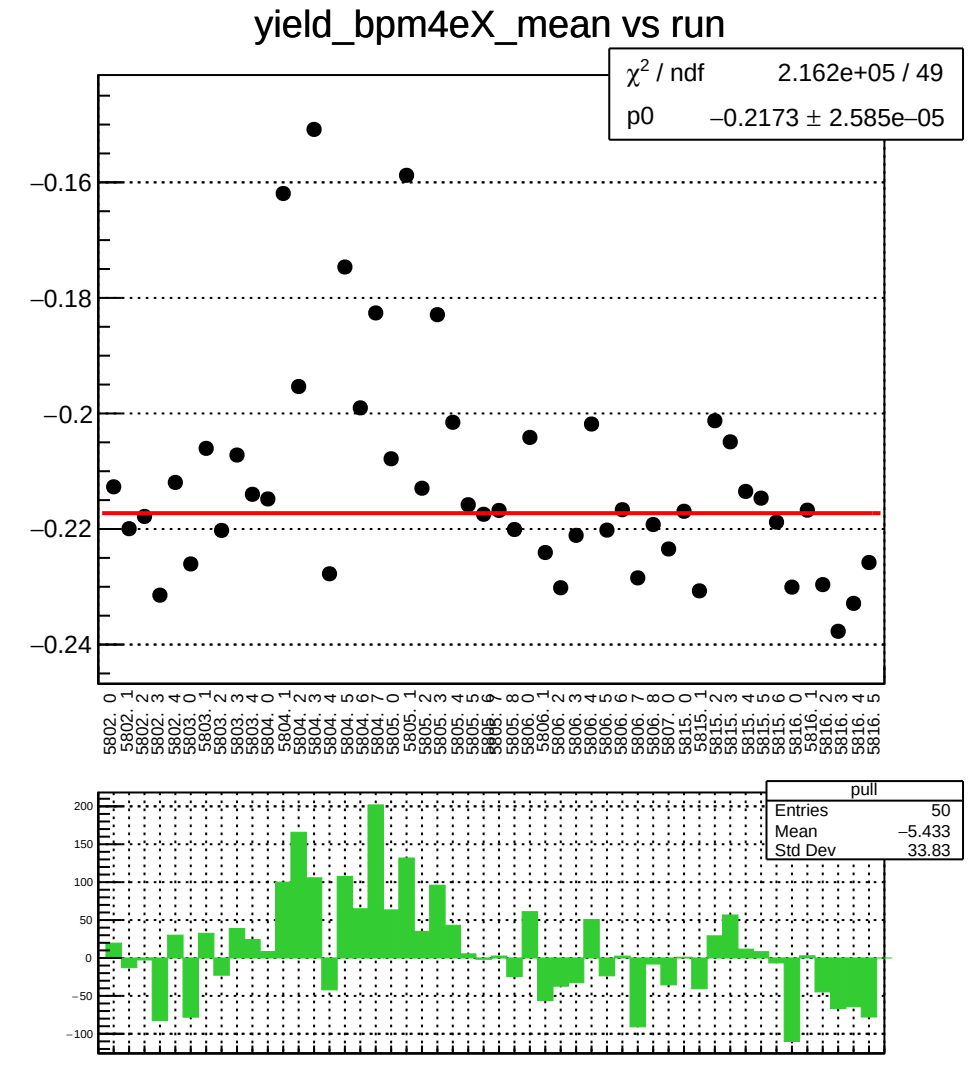

pull1D
Entries 50
Mean 1.511
Std Dev 2.868

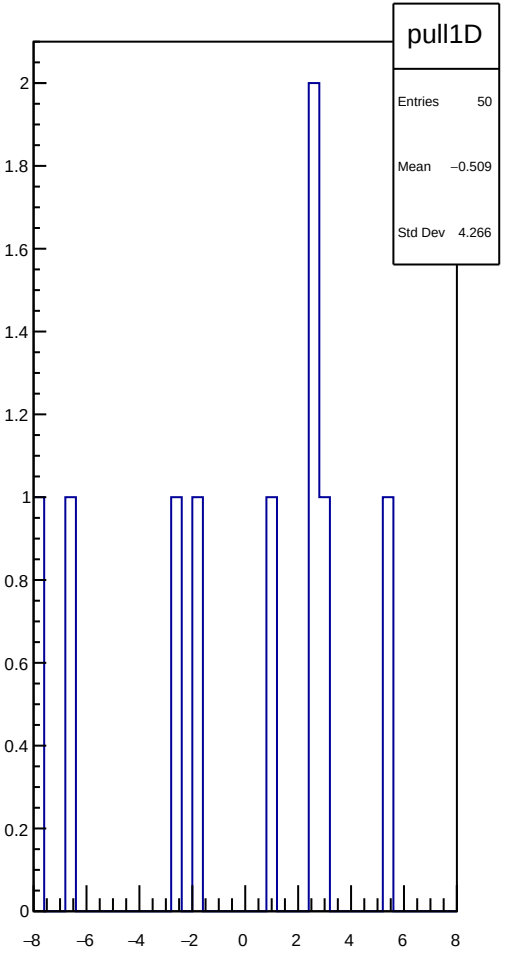

yield_bpm4aX_rms vs run
χ² / ndf 1.677e+05 / 49
p0 0.02159 ± 2.414e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

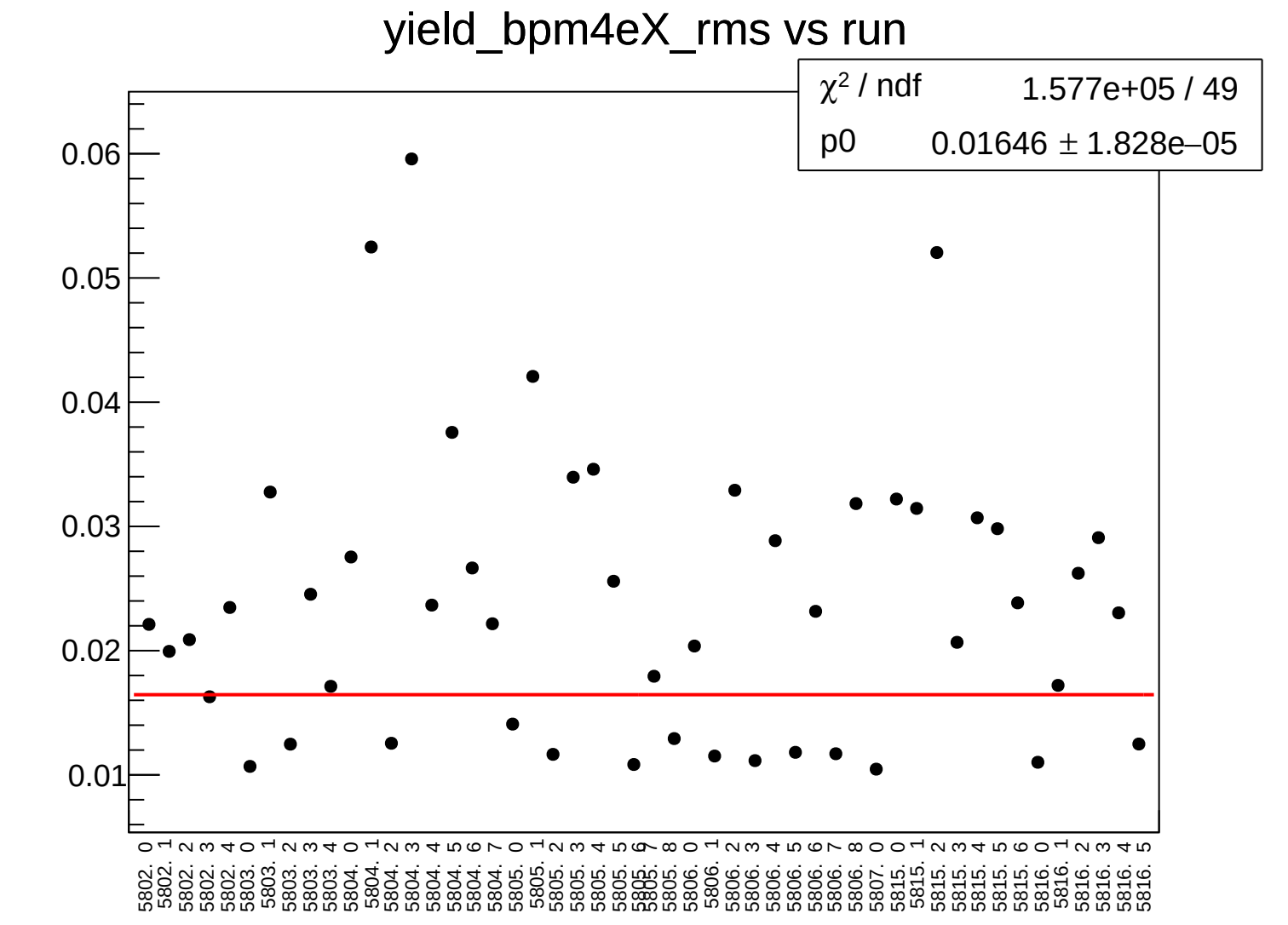

yield_bpm4aY_mean vs run
χ² / ndf 5.68e+04 / 49
p0 1.61 ± 6.297e−05
1.66
1.64
1.62
1.6
1.58
1.56
1.54
pull
Entries 50
Mean −309.4
Std Dev 334.4
80
60
40
20
0
−20
−40
−60
−80
−100


pull1D
Entries 50
Mean 0.7412
Std Dev 2.517
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aY_rms vs run
χ² / ndf 5.179e+04 / 49
p0 0.04262 ± 4.453e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm4eX_mean vs run
χ² / ndf 2.162e+05 / 49
p0 −0.2173 ± 2.585e−05
−0.16
−0.18
−0.2
−0.22
−0.24
pull
Entries 50
Mean −5.433
Std Dev 33.83
200
150
100
50
0
−50
−100


pull1D
Entries 50
Mean −0.509
Std Dev 4.266
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 1.577e+05 / 49
p0 0.01646 ± 1.828e–05
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
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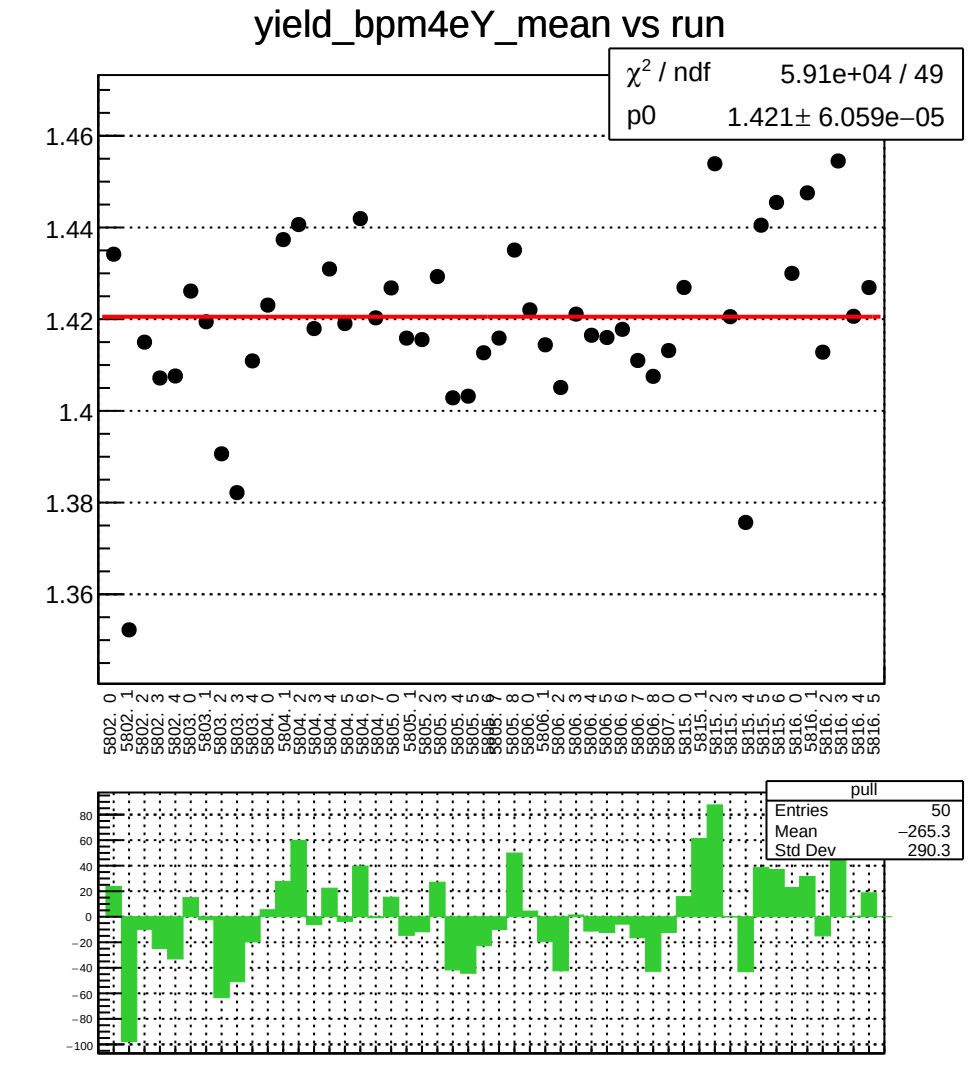
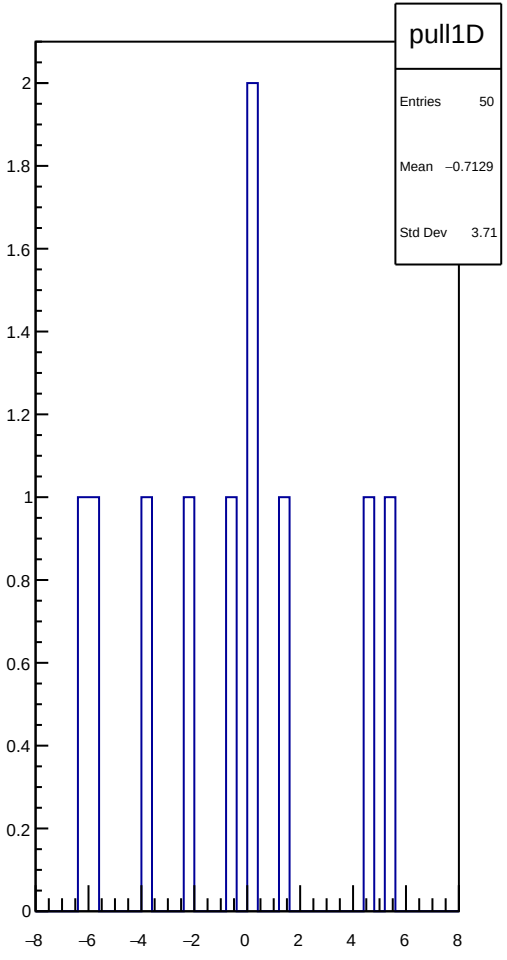
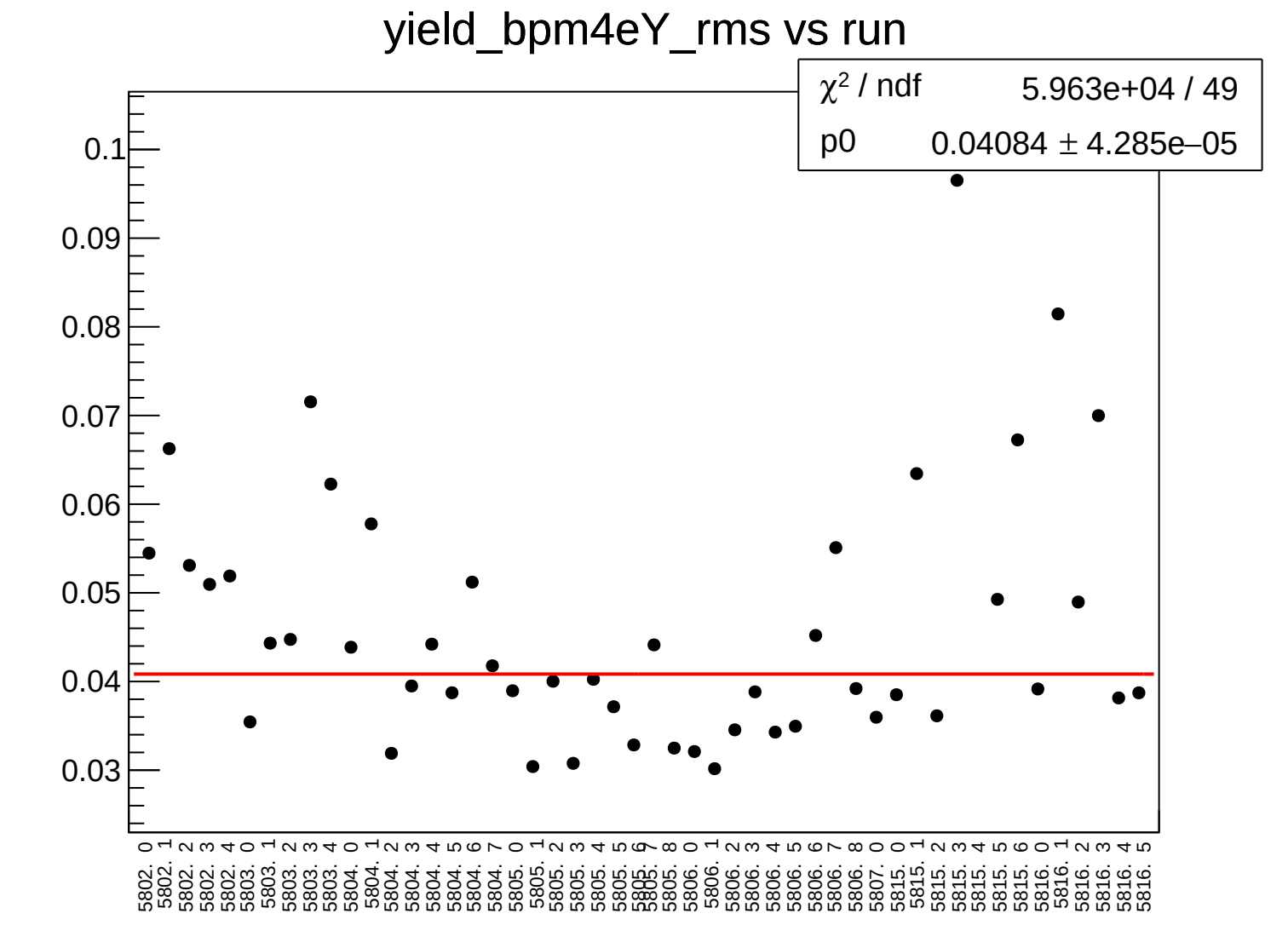
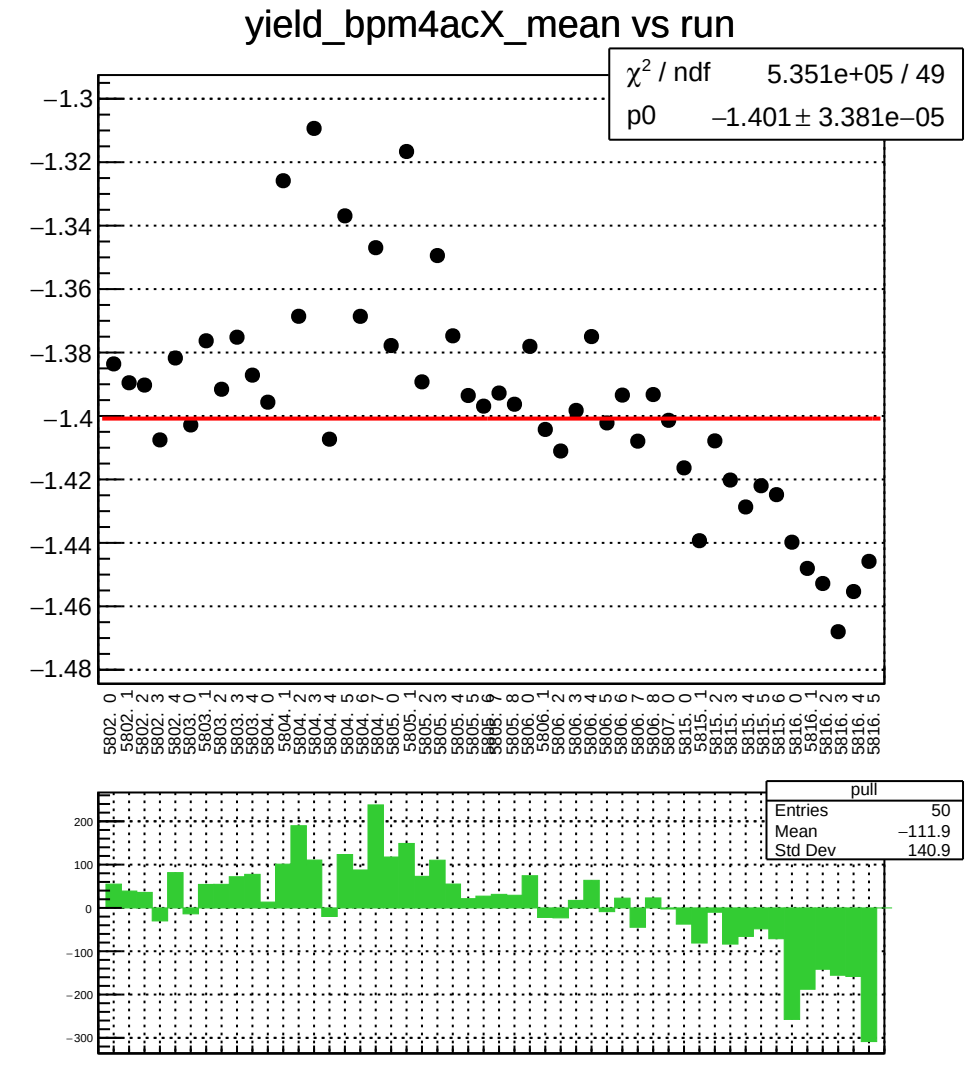
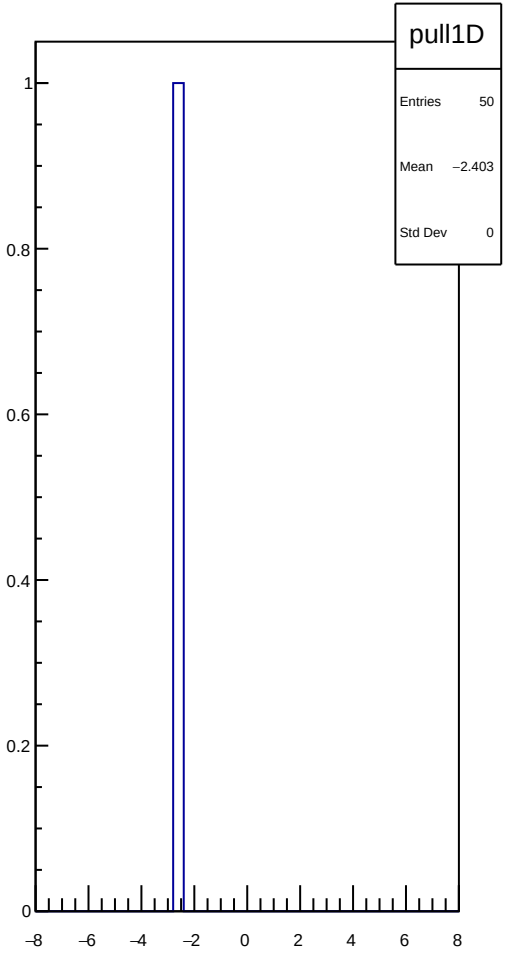
5816. 2
5816. 3
5816. 4
5816. 5

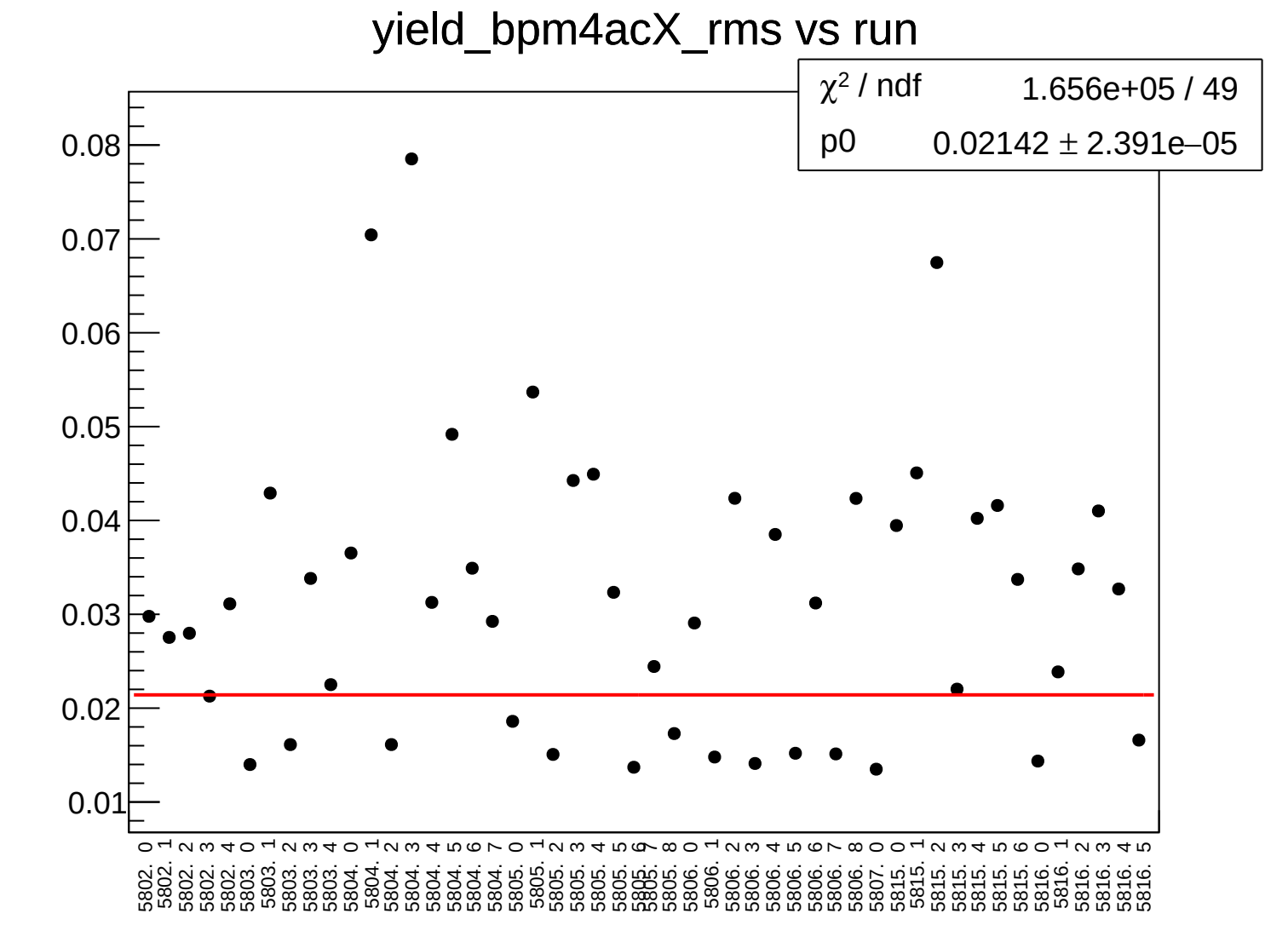

yield_bpm4eY_mean vs run
χ² / ndf 5.91e+04 / 49
p0 1.421± 6.059e−05
1.46
1.44
1.42
1.4
1.38
1.36
pull
Entries 50
Mean −265.3
Std Dev 290.3
80
60
40
20
0
−20
−40
−60
−80
−100

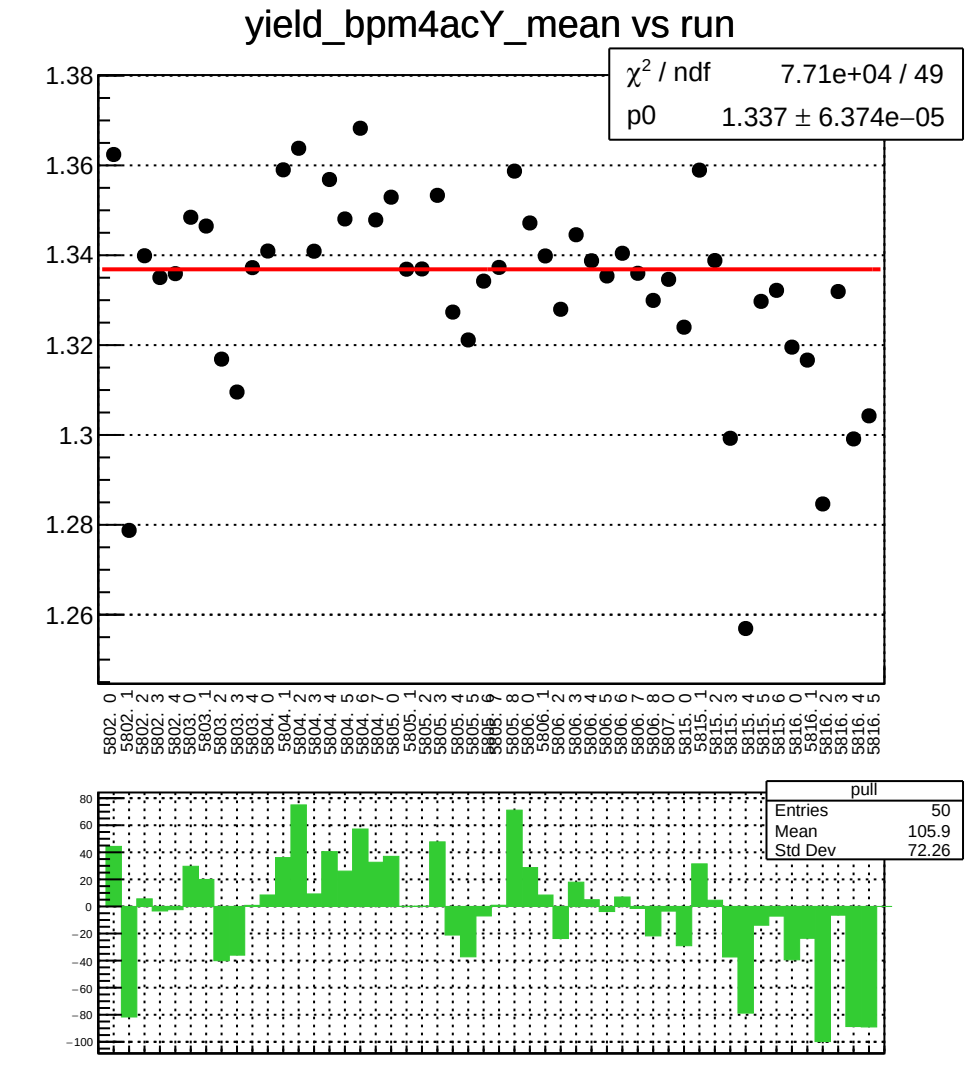

pull1D
Entries 50
Mean −0.7129
Std Dev 3.71
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

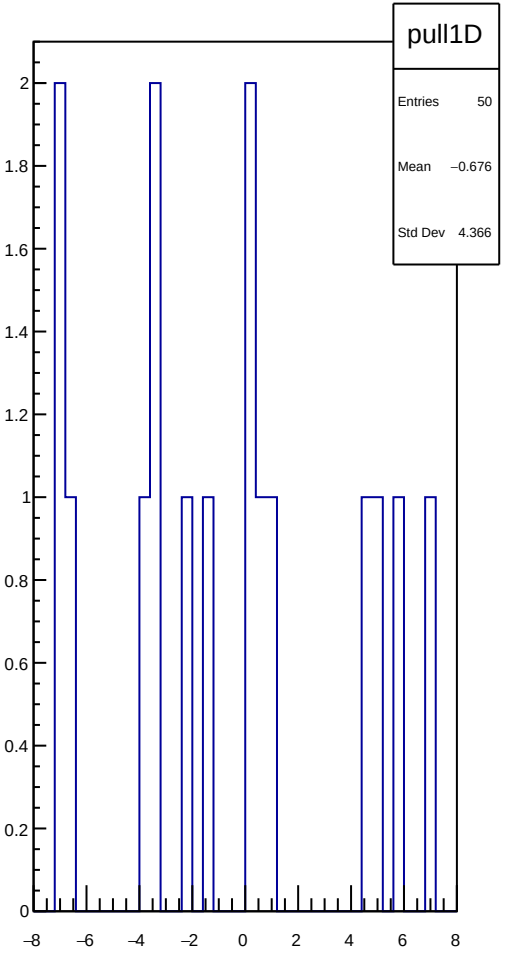

yield_bpm4eY_rms vs run
χ² / ndf 5.963e+04 / 49
p0 0.04084 ± 4.285e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

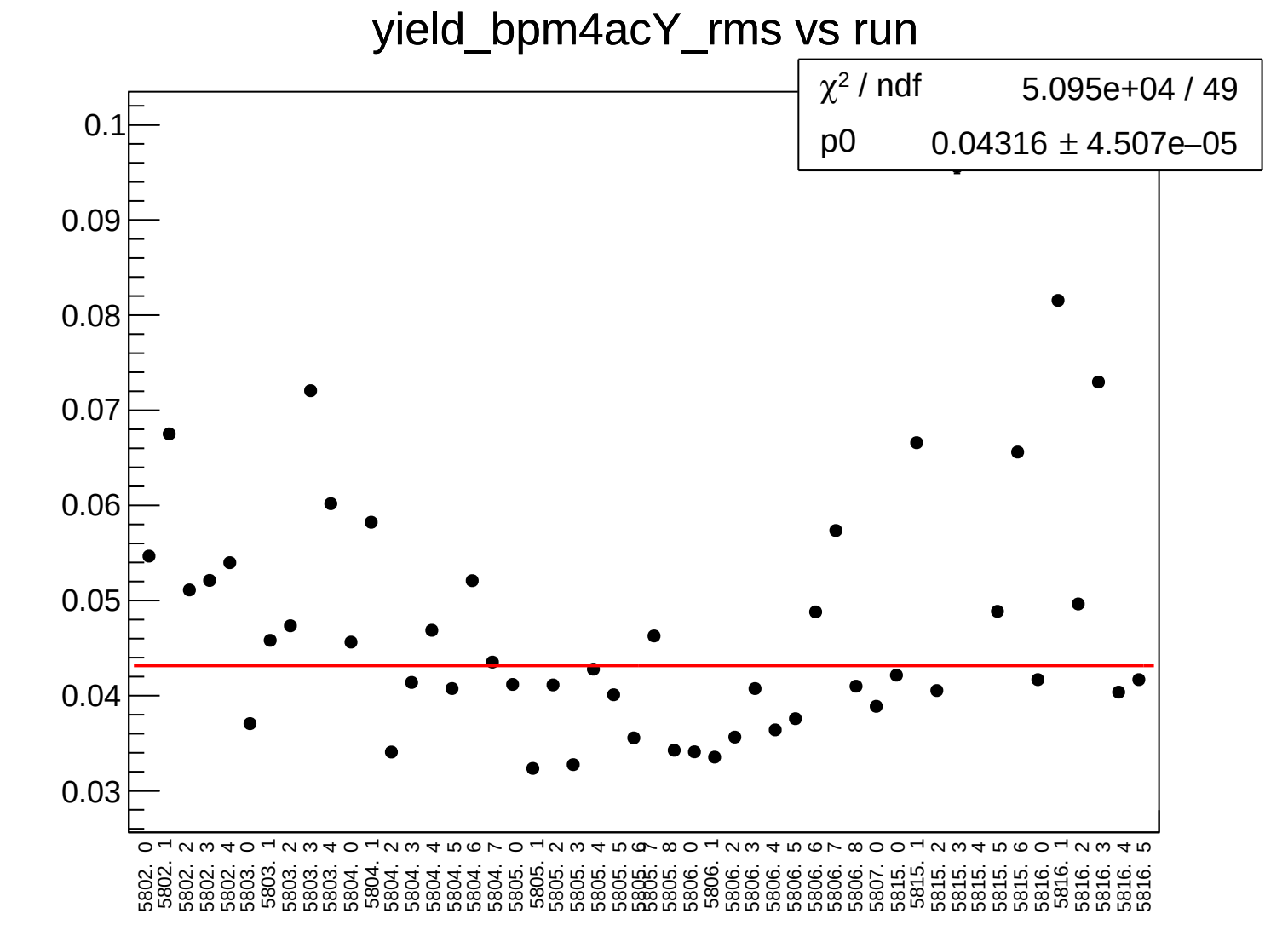

yield_bpm4acX_mean vs run
χ² / ndf 5.351e+05 / 49
p0 −1.401 ± 3.381e−05
pull
Entries 50
Mean −111.9
Std Dev 140.9


pull1D
Entries 50
Mean −2.403
Std Dev 0


yield_bpm4acX_rms vs run
χ² / ndf 1.656e+05 / 49
p0 0.02142 ± 2.391e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm4acY_mean vs run
χ² / ndf 7.71e+04 / 49
p0 1.337 ± 6.374e−05
1.38
1.36
1.34
1.32
1.3
1.28
1.26
pull
Entries 50
Mean 105.9
Std Dev 72.26
80
60
40
20
0
−20
−40
−60
−80
−100


pull1D
Entries 50
Mean −0.676
Std Dev 4.366
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4acY_rms vs run
χ² / ndf 5.095e+04 / 49
p0 0.04316 ± 4.507e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
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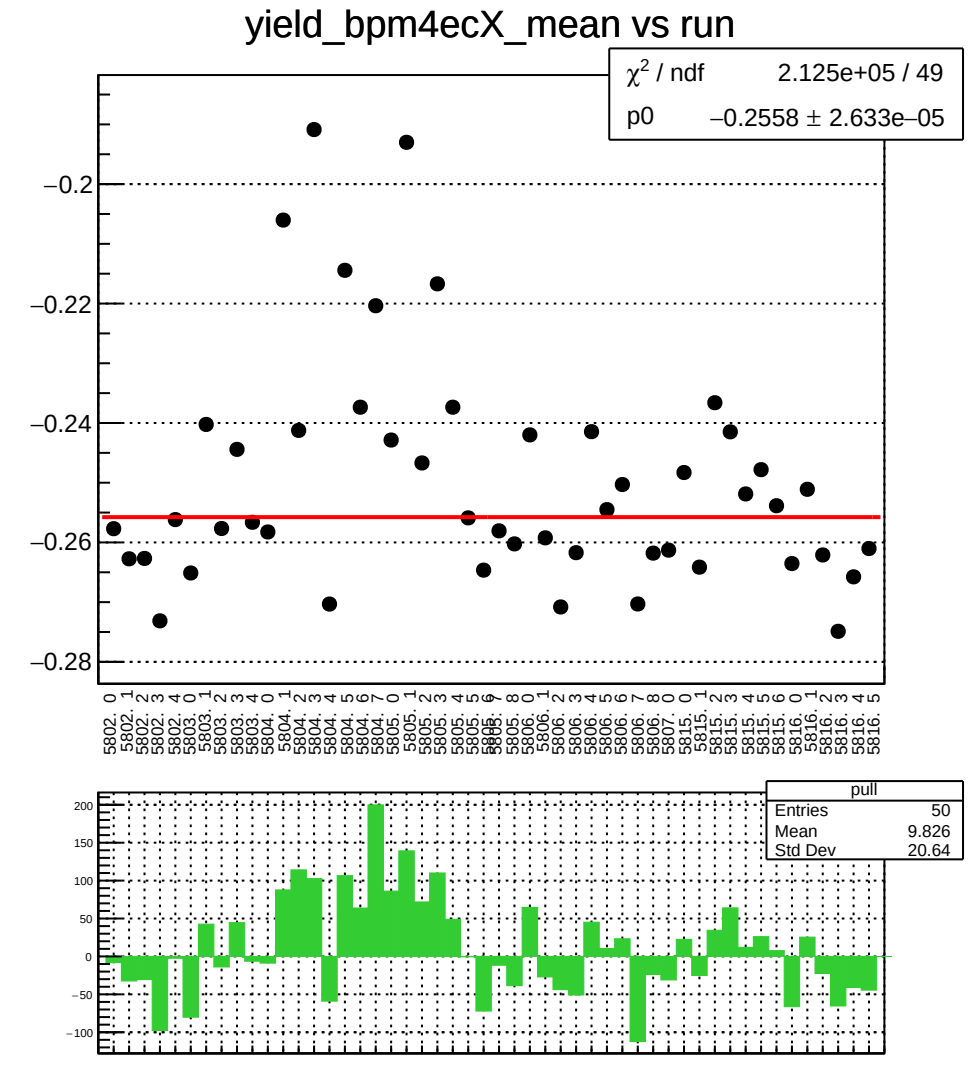
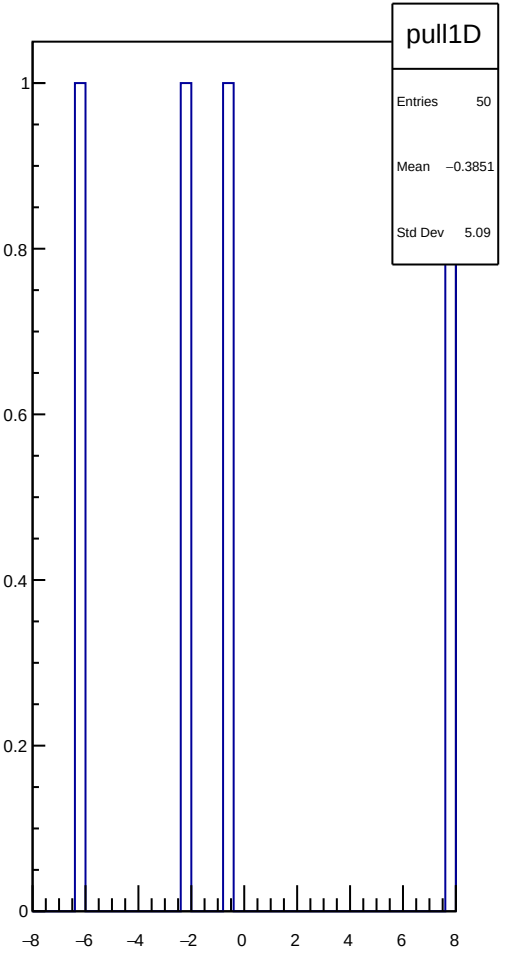
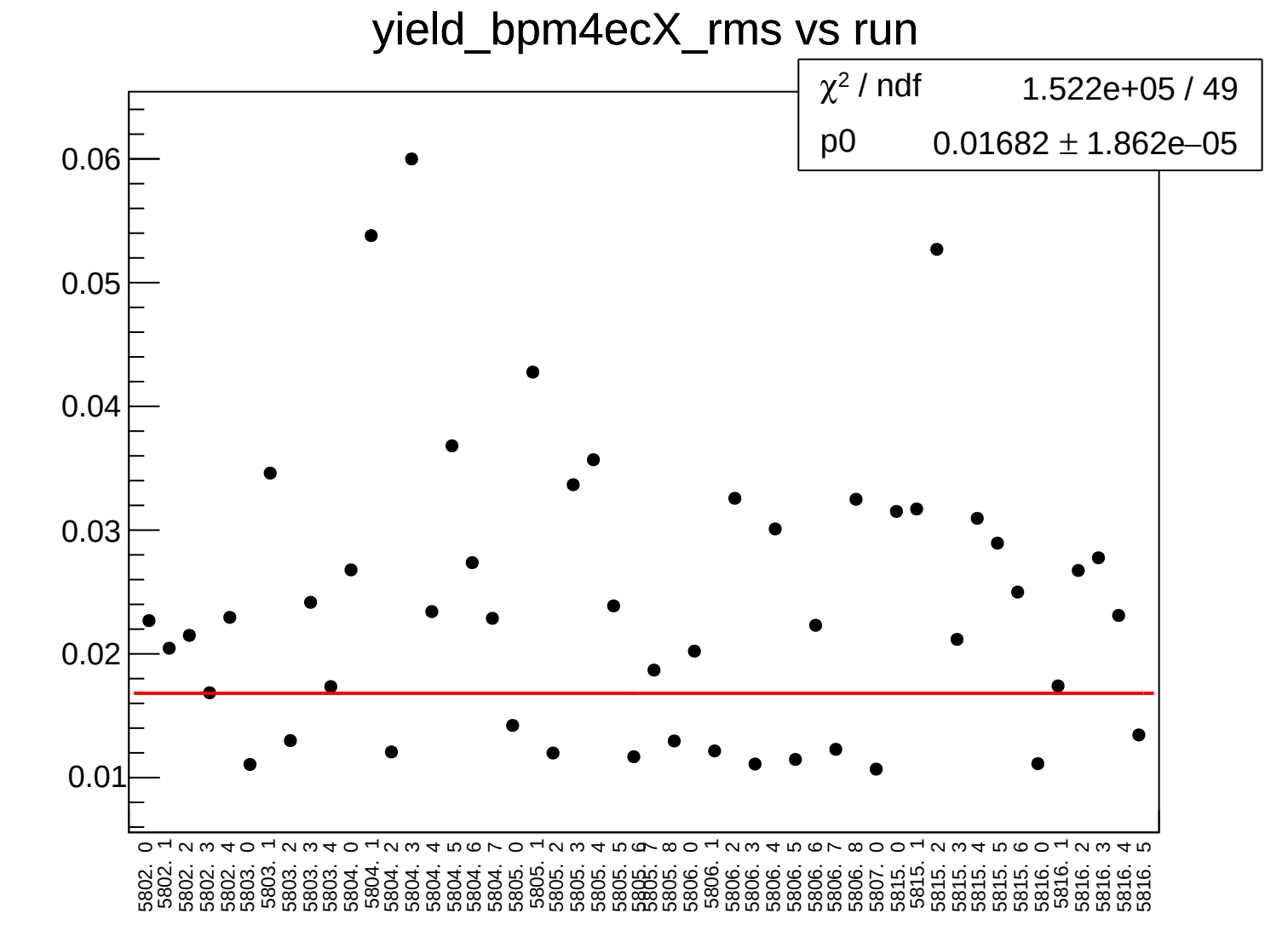
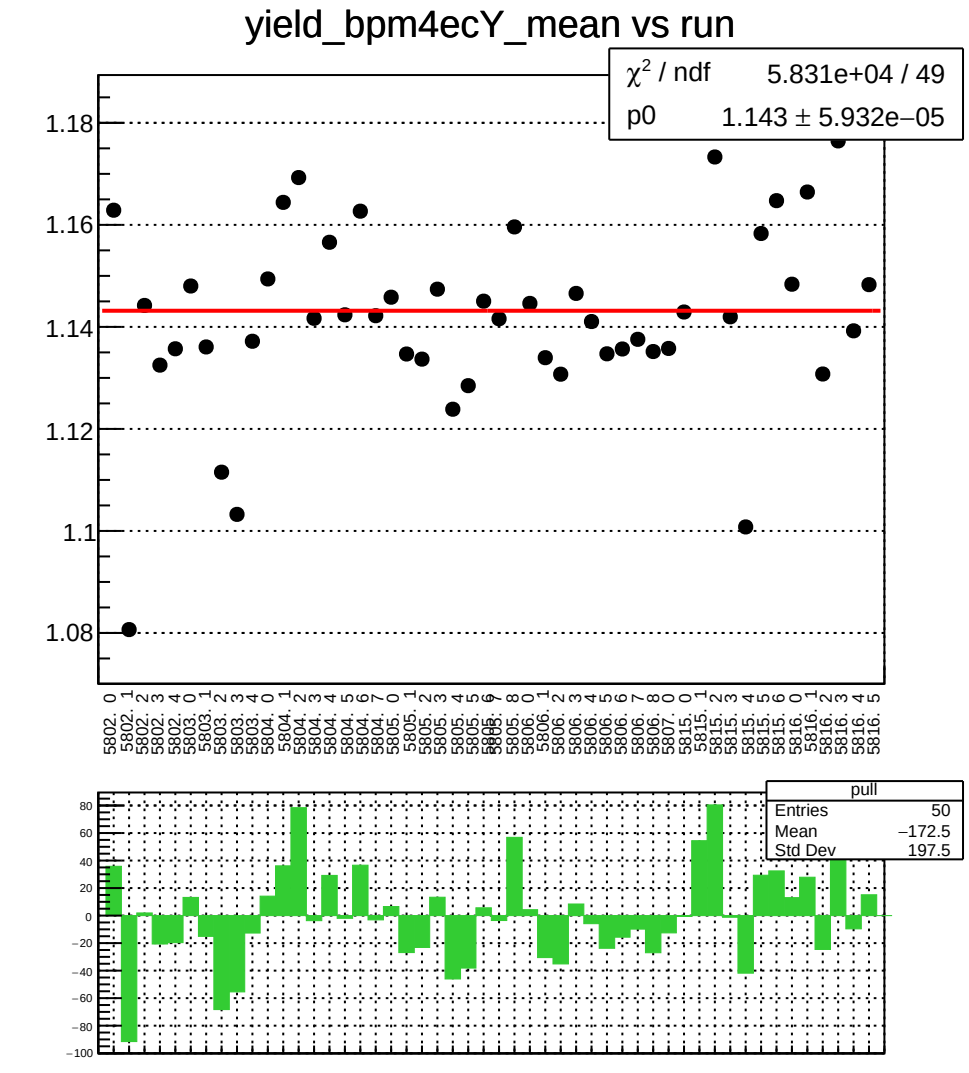
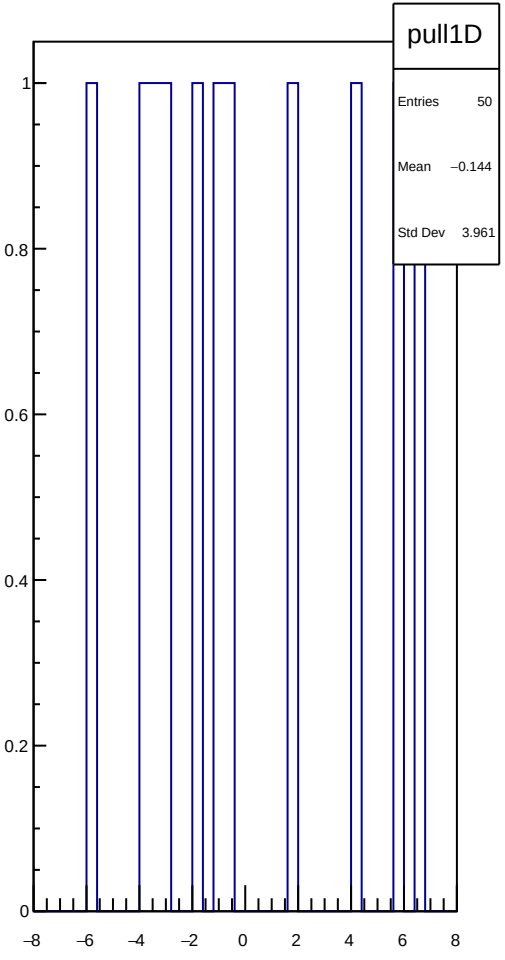
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

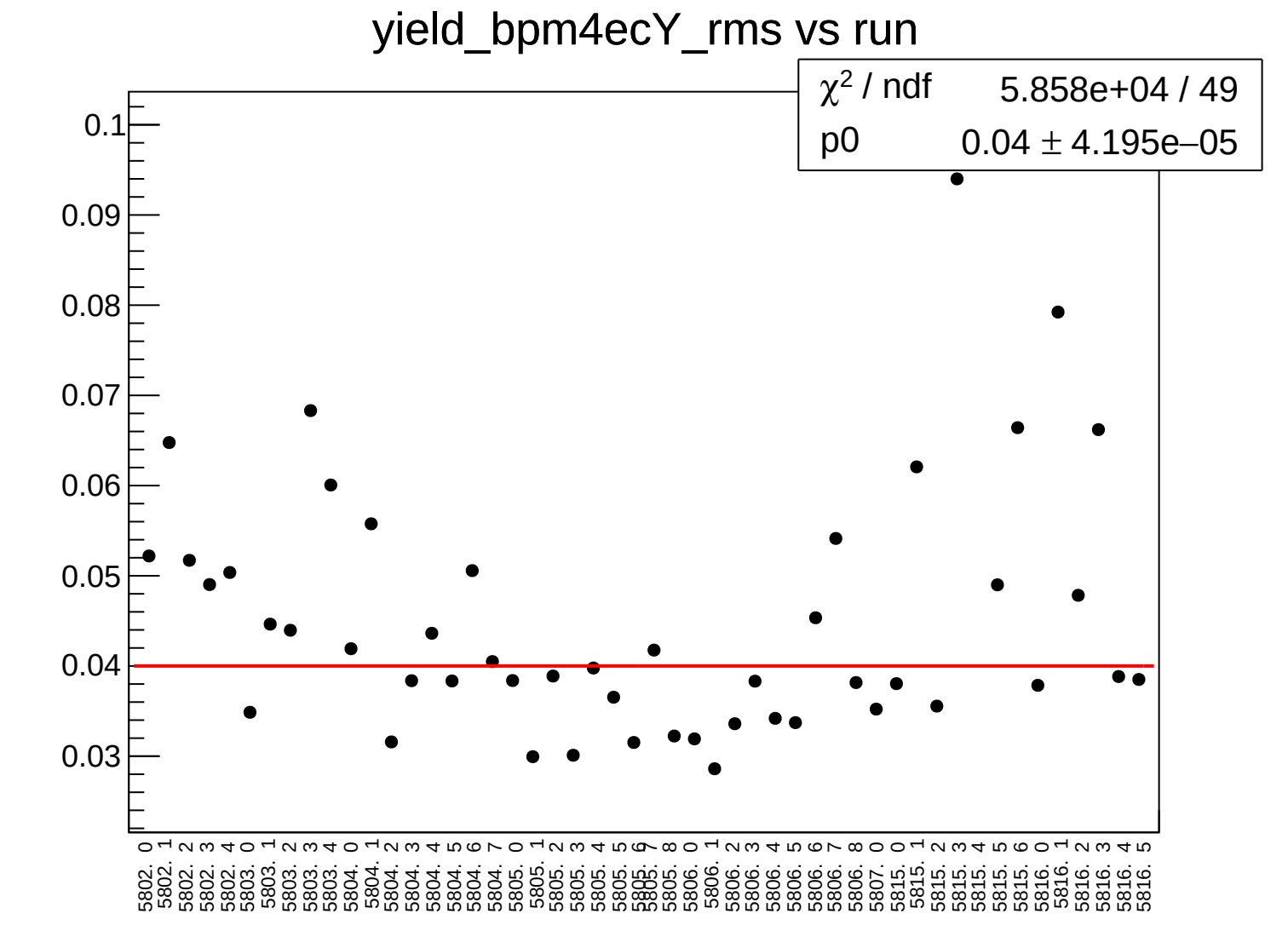

yield_bpm4ecX_mean vs run
χ² / ndf 2.125e+05 / 49
p0 −0.2558 ± 2.633e−05
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 50
Mean 9.826
Std Dev 20.64
200
150
100
50
0
−50
−100

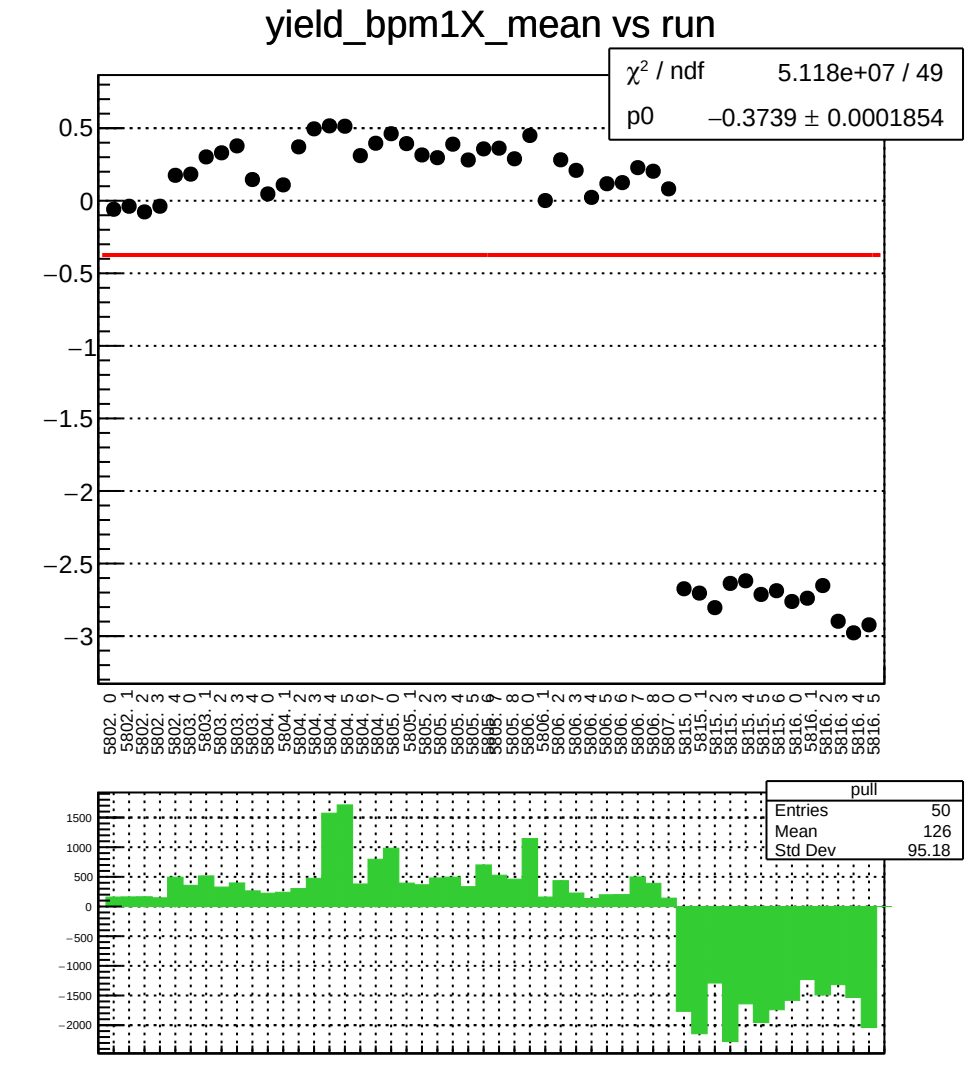

pull1D
Entries 50
Mean −0.3851
Std Dev 5.09
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

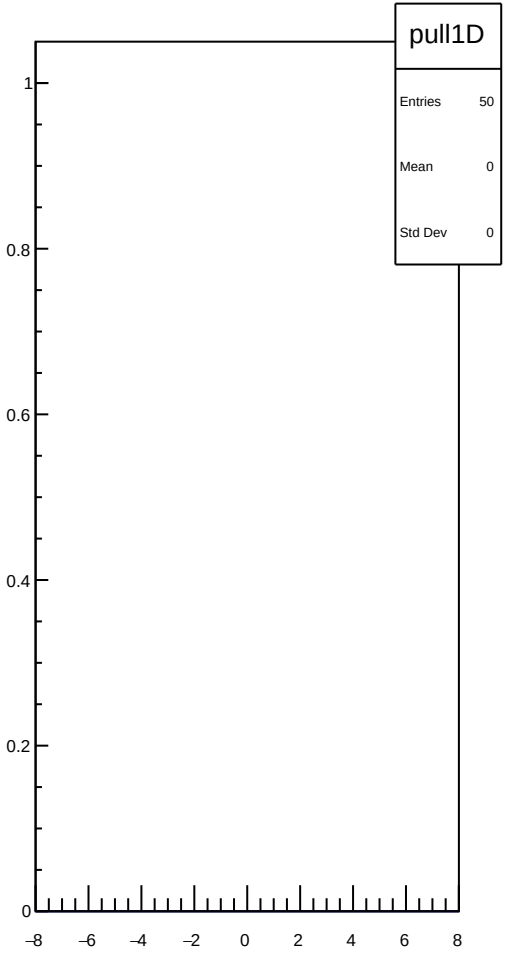

yield_bpm4ecX_rms vs run
χ² / ndf 1.522e+05 / 49
p0 0.01682 ± 1.862e–05
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

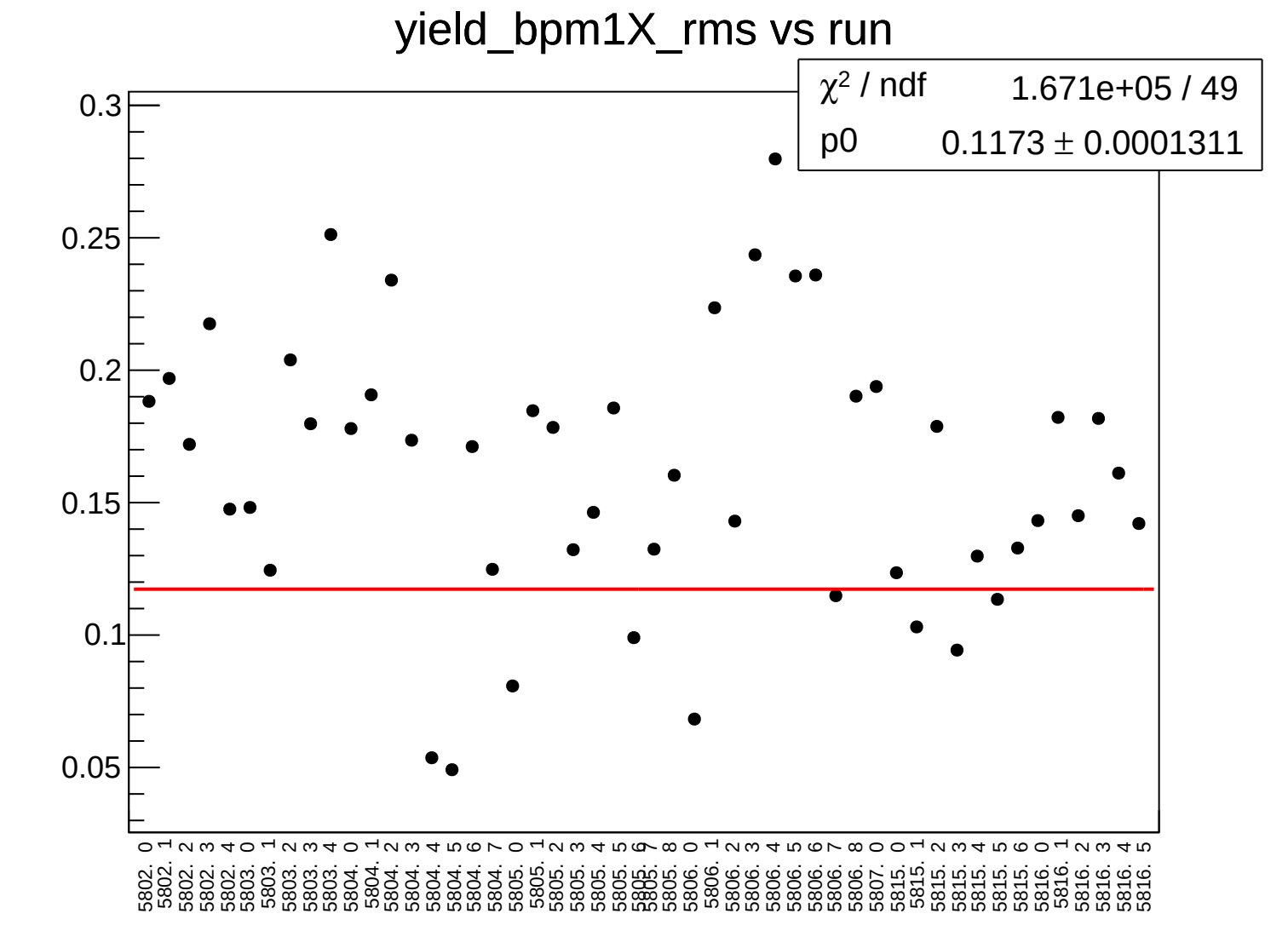

yield_bpm4ecY_mean vs run
χ² / ndf 5.831e+04 / 49
p0 1.143 ± 5.932e−05
1.18
1.16
1.14
1.12
1.1
1.08
pull
Entries 50
Mean −172.5
Std Dev 197.5
80
60
40
20
0
−20
−40
−60
−80
−100


pull1D
Entries 50
Mean −0.144
Std Dev 3.961
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 5.858e+04 / 49
p0 0.04 ± 4.195e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm1X_mean vs run
χ² / ndf 5.118e+07 / 49
p0 −0.3739 ± 0.0001854
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 126
Std Dev 95.18
1500
1000
500
0
−500
−1000
−1500
−2000


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1X_rms vs run
χ² / ndf 1.671e+05 / 49
p0 0.1173 ± 0.0001311
0.3
0.25
0.2
0.15
0.1
0.05
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
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5805. 2
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5805. 6
5805. 7
5805. 8
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5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
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5815. 6
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5816. 2
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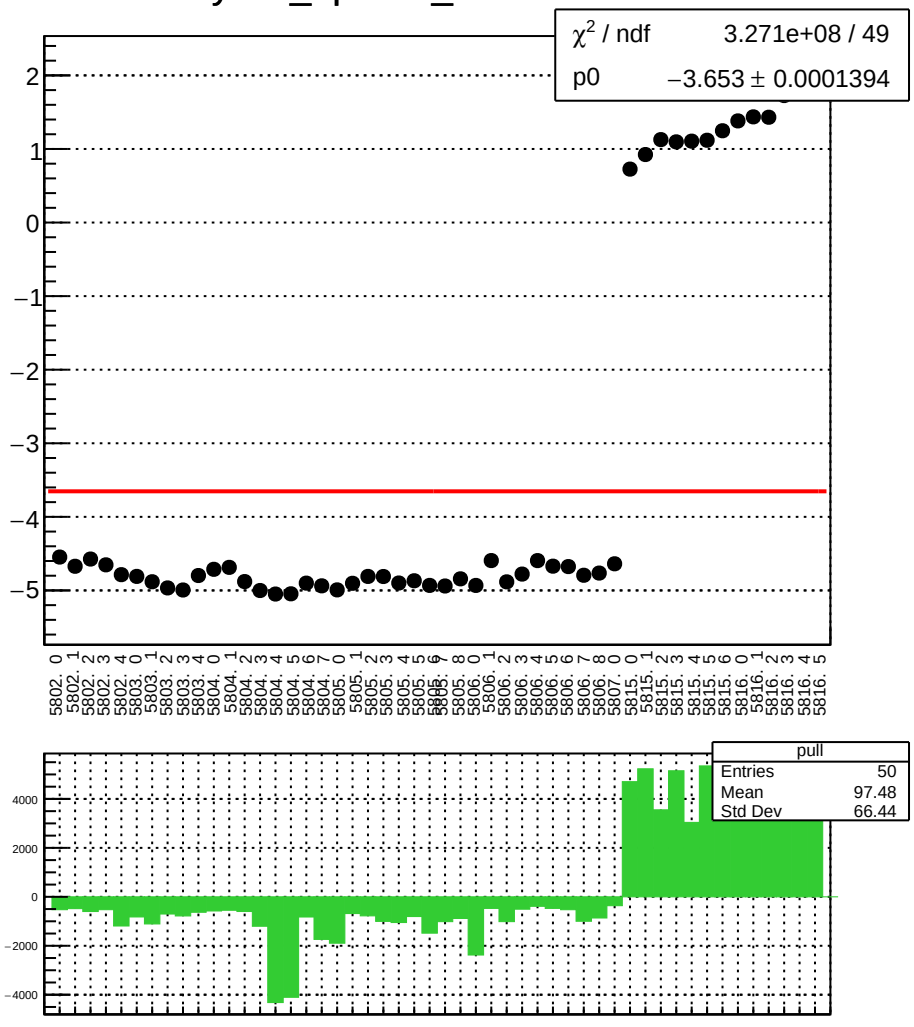
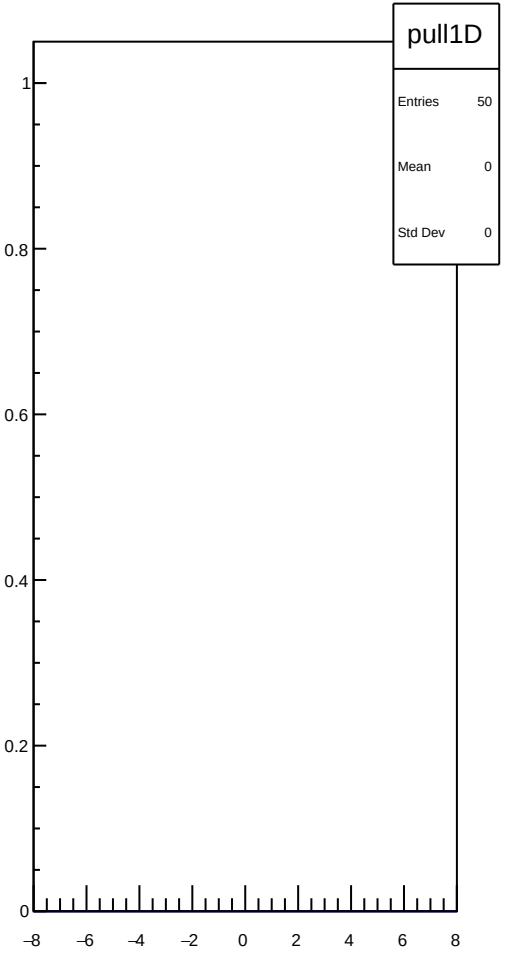
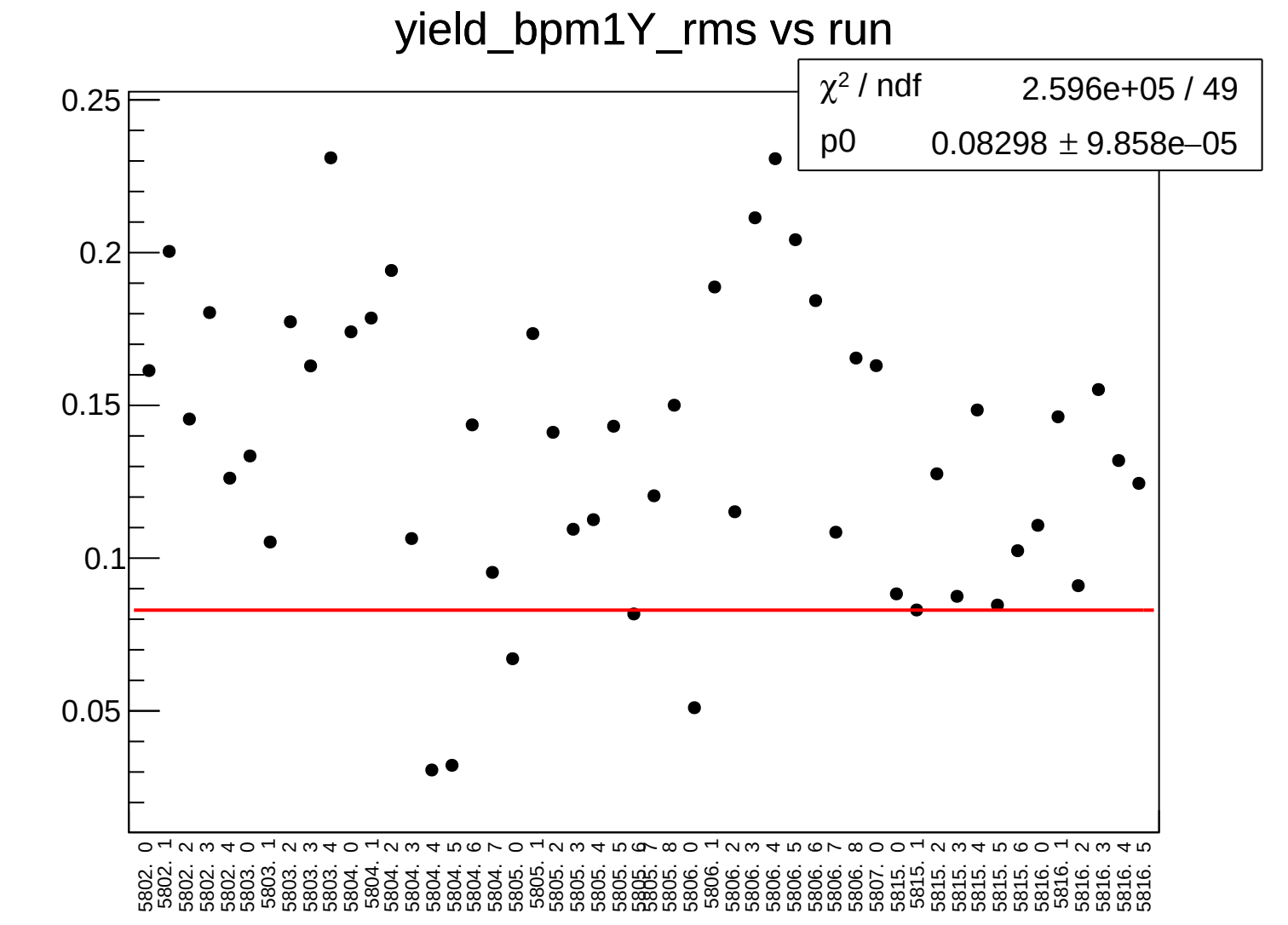
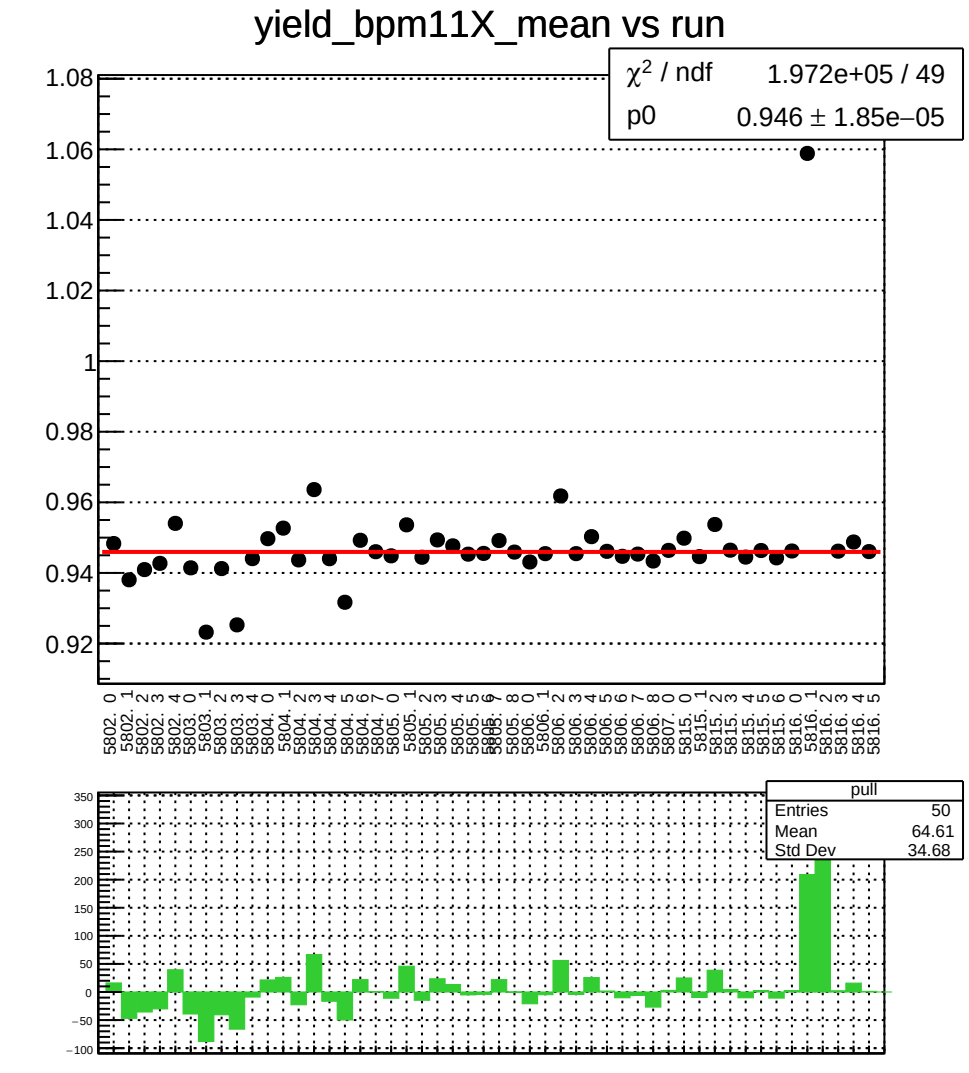
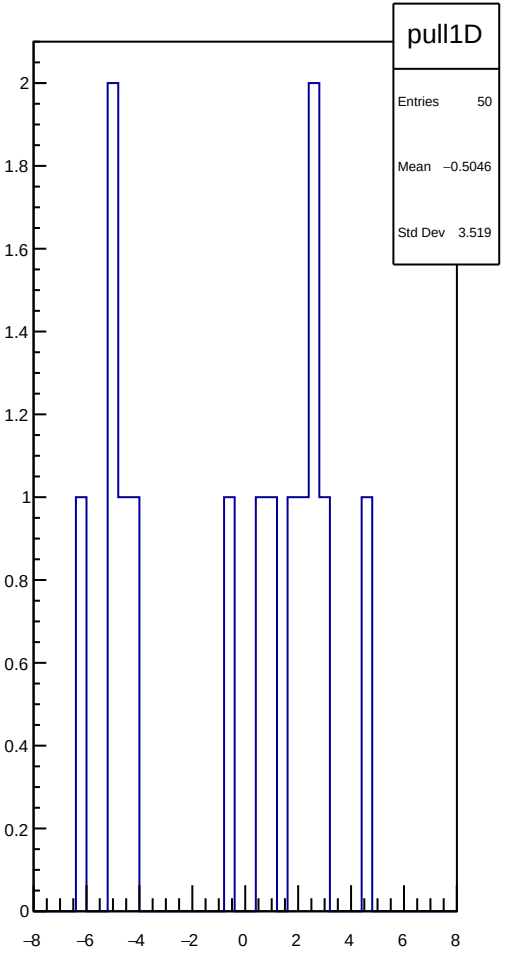
5816. 5

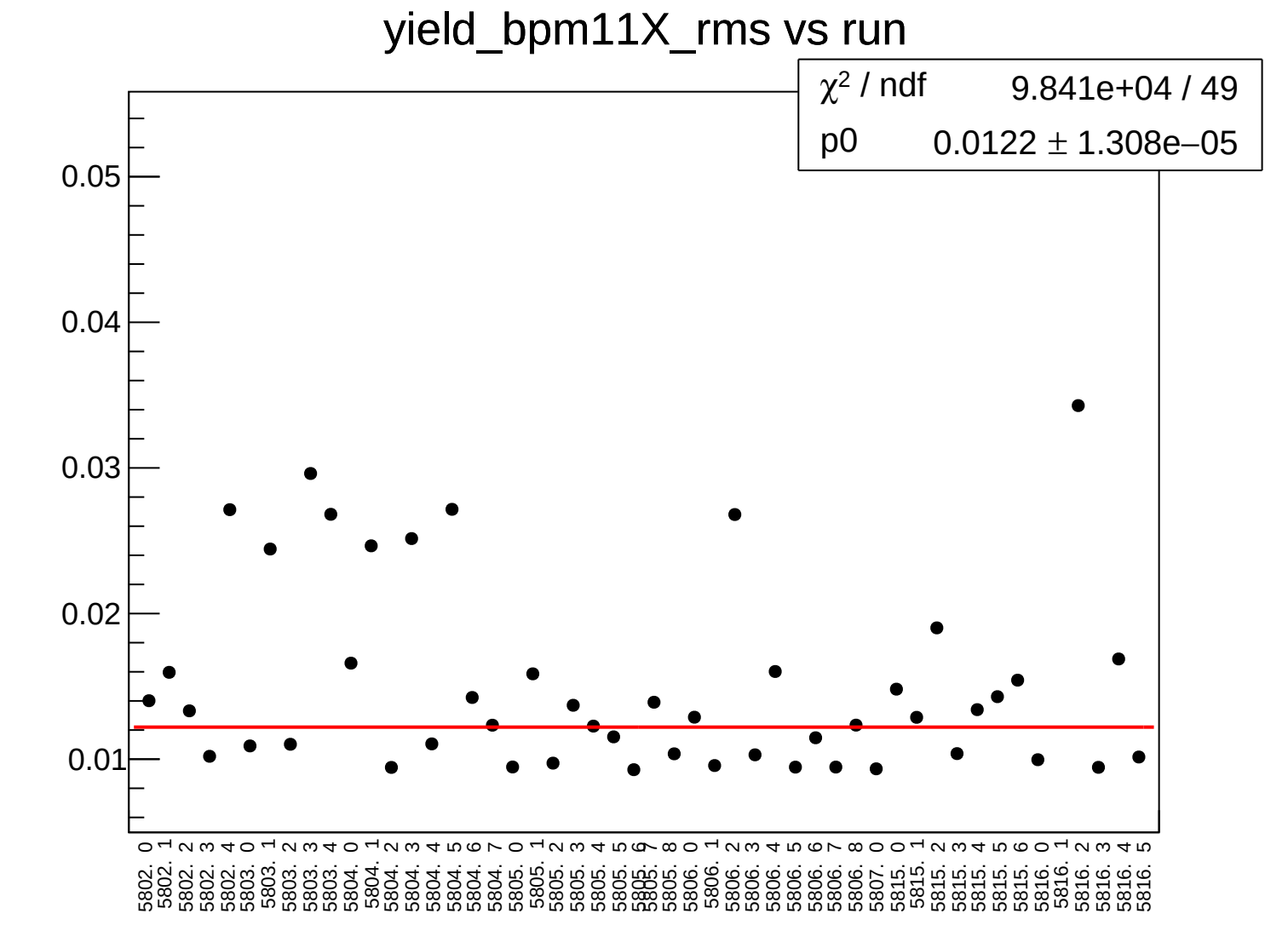

yield_bpm1Y_mean vs run
χ² / ndf 3.271e+08 / 49
p0 −3.653 ± 0.0001394
pull
Entries 50
Mean 97.48
Std Dev 66.44


pull1D
Entries 50
Mean 0
Std Dev 0


yield_bpm1Y_rms vs run
χ² / ndf 2.596e+05 / 49
p0 0.08298 ± 9.858e−05
0.25
0.2
0.15
0.1
0.05
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm11X_mean vs run
χ² / ndf 1.972e+05 / 49
p0 0.946 ± 1.85e−05
pull
Entries 50
Mean 64.61
Std Dev 34.68


pull1D
Entries 50
Mean −0.5046
Std Dev 3.519


yield_bpm11X_rms vs run
χ² / ndf 9.841e+04 / 49
p0 0.0122 ± 1.308e−05
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
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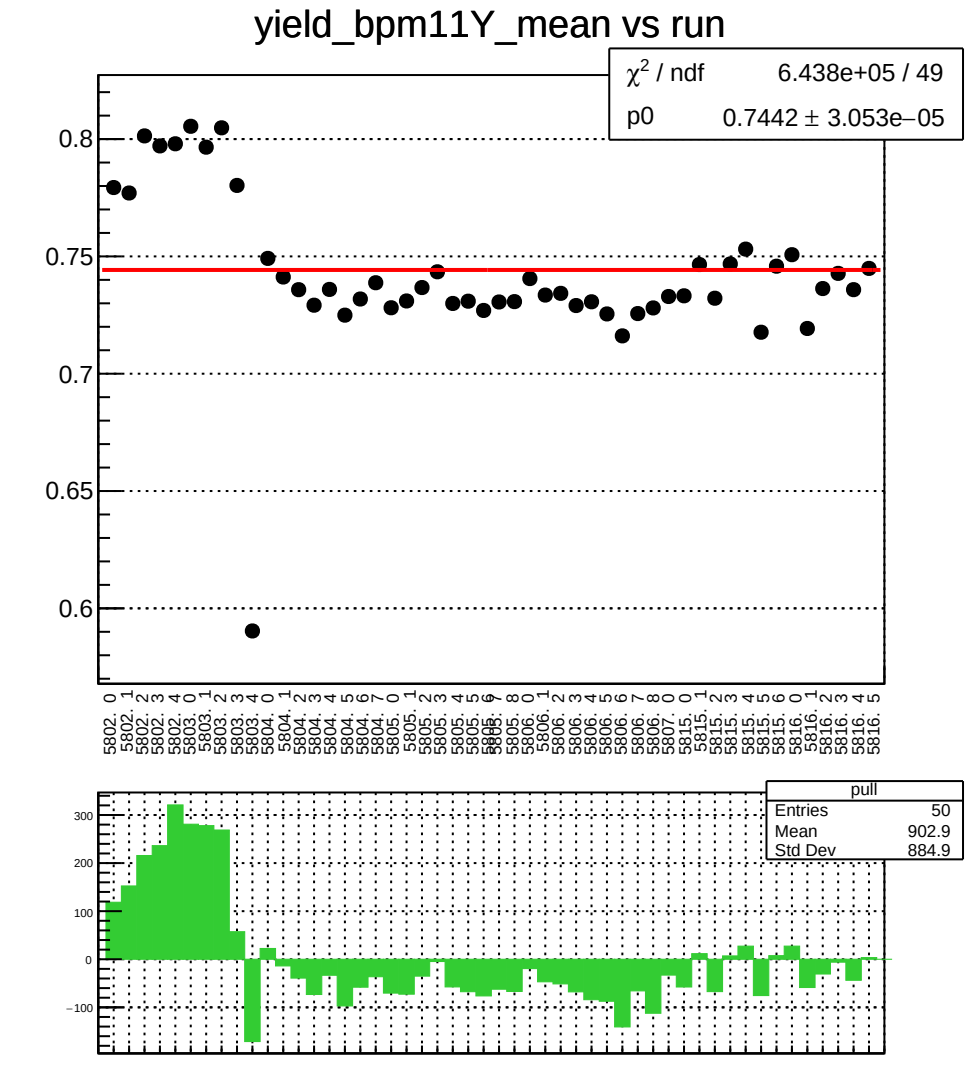
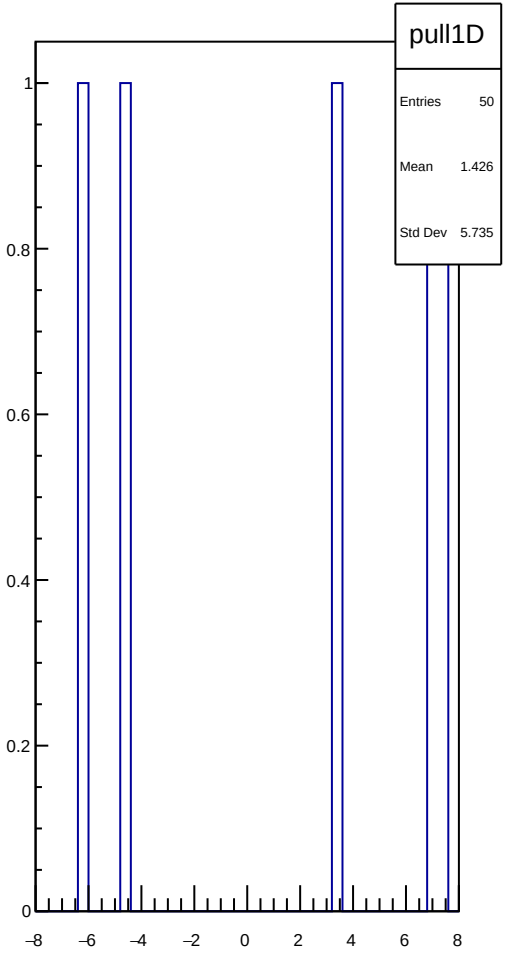
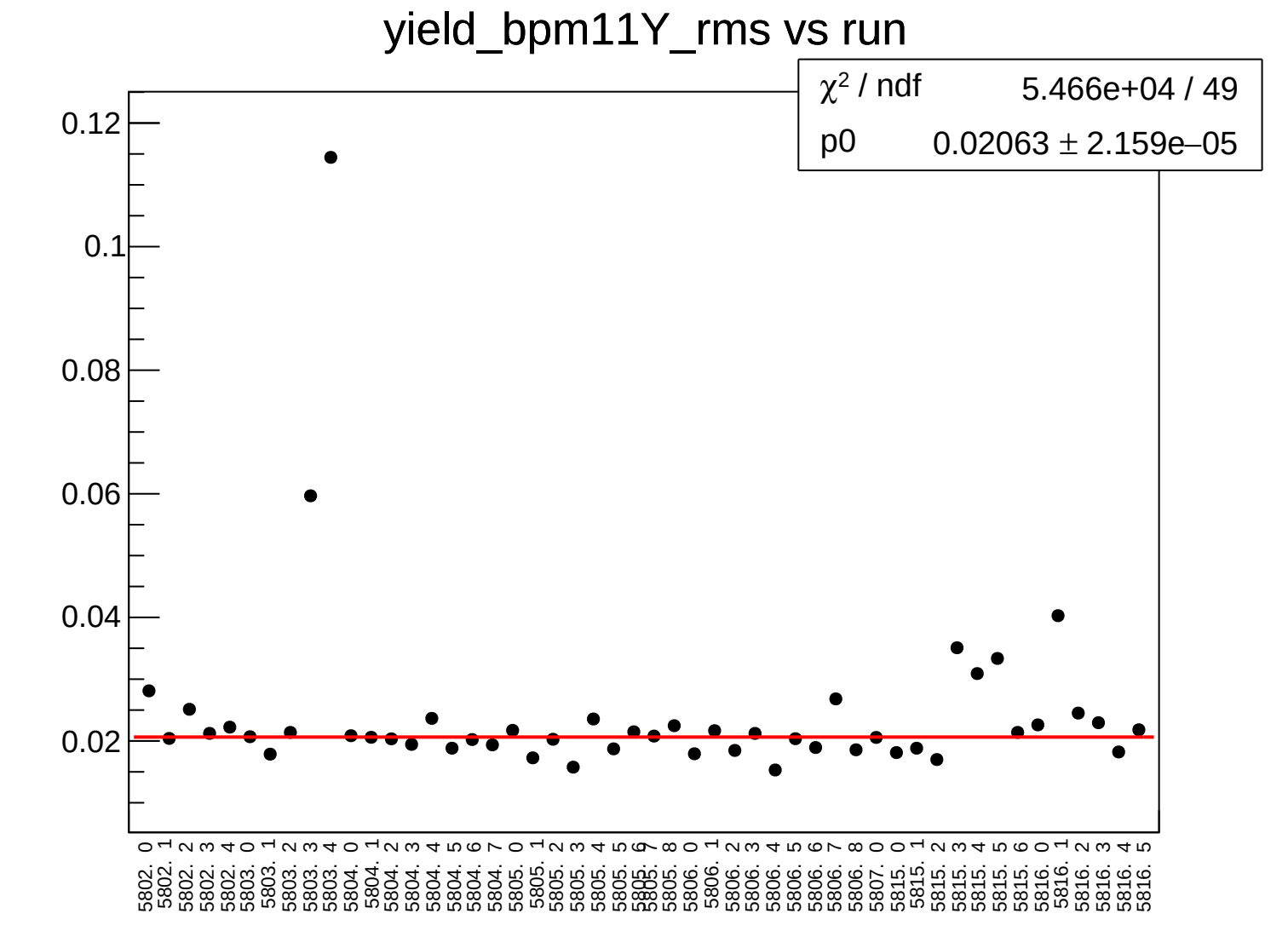
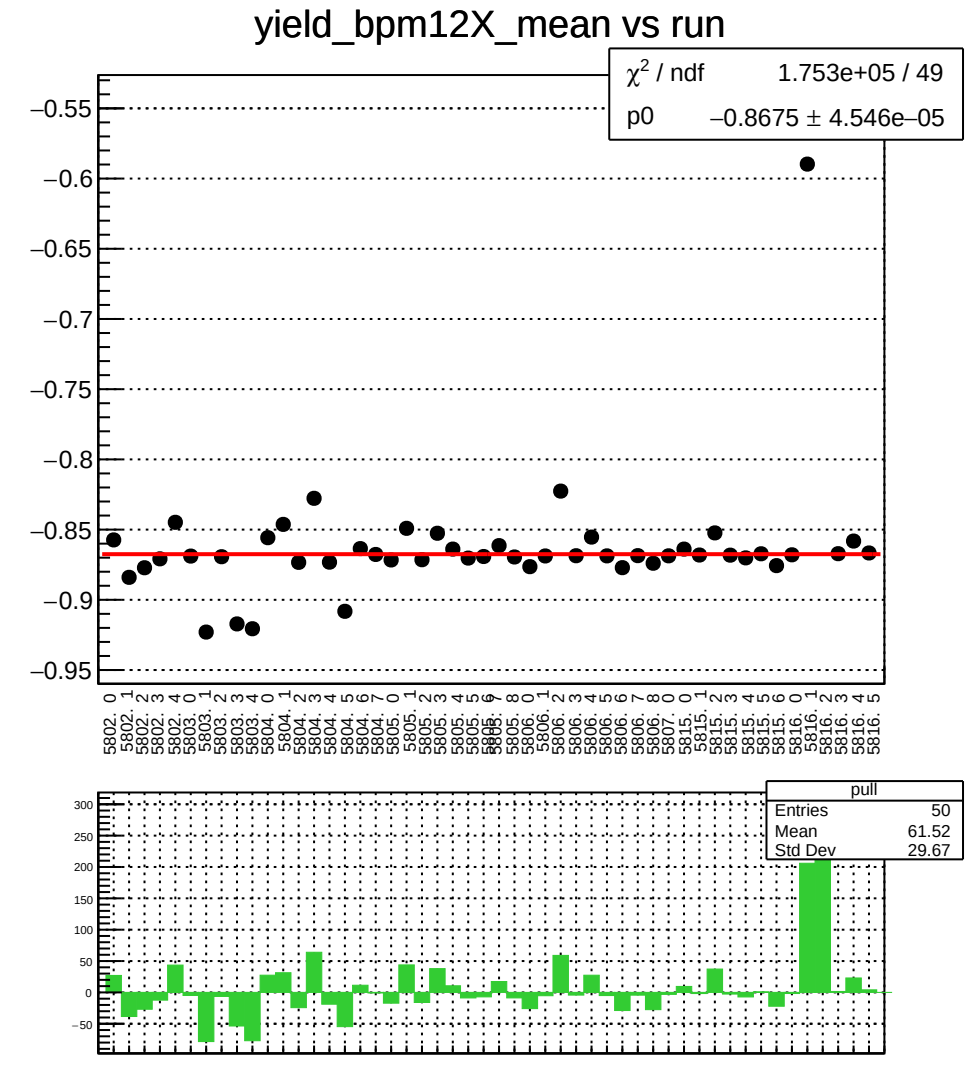
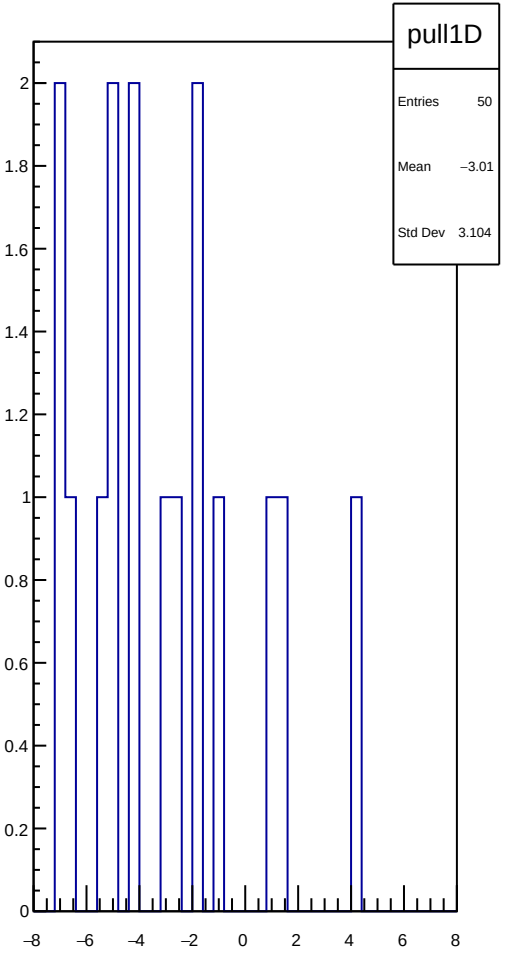
5816. 2
5816. 3
5816. 4
5816. 5

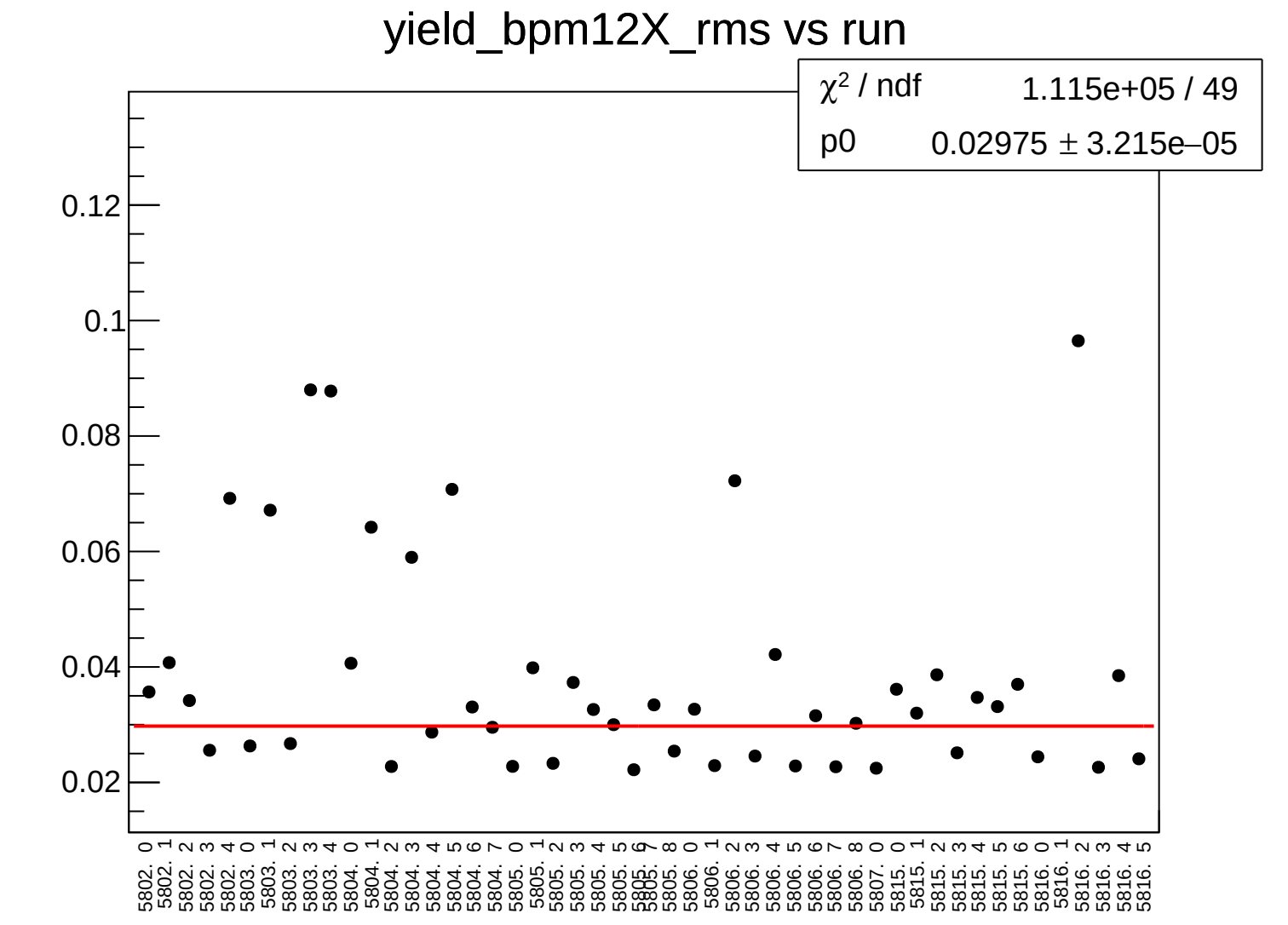

yield_bpm11Y_mean vs run
χ² / ndf 6.438e+05 / 49
p0 0.7442 ± 3.053e−05
0.8
0.75
0.7
0.65
0.6
pull
Entries 50
Mean 902.9
Std Dev 884.9
300
200
100
0
−100

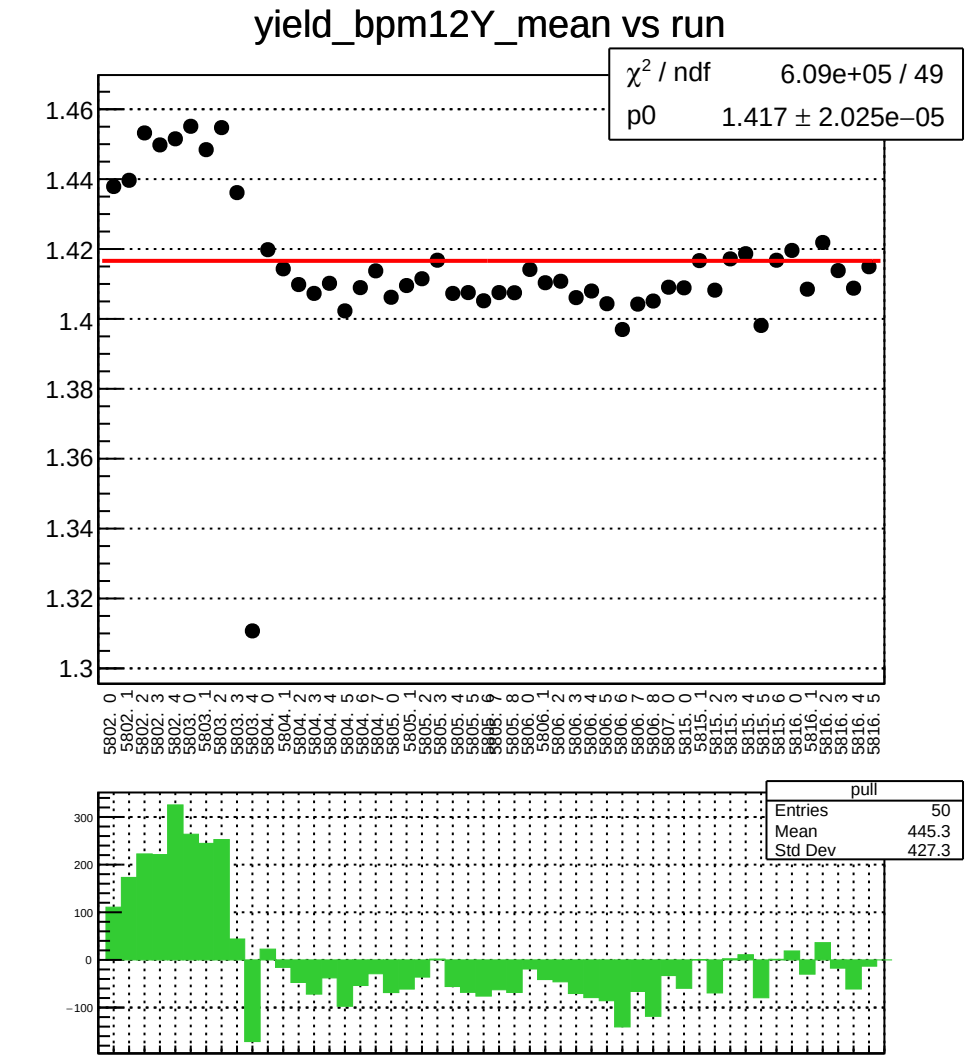

pull1D
Entries 50
Mean 1.426
Std Dev 5.735
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

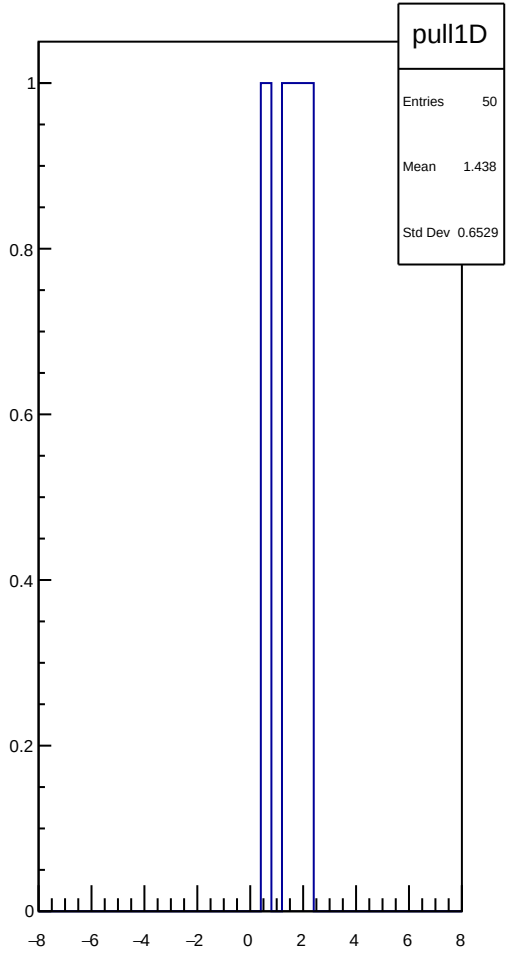

yield_bpm11Y_rms vs run
χ² / ndf 5.466e+04 / 49
p0 0.02063 ± 2.159e–05
0.12
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

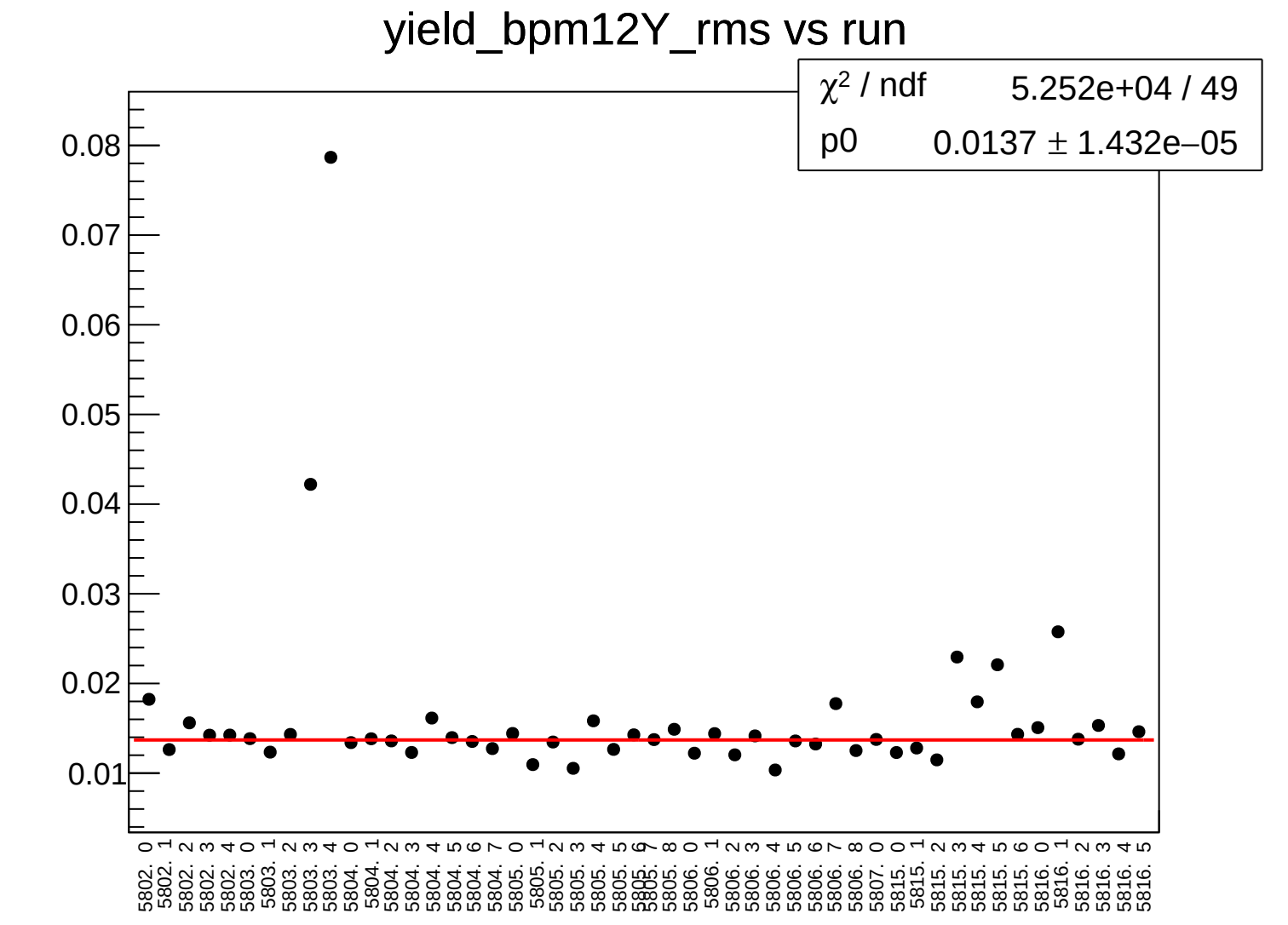

yield_bpm12X_mean vs run
χ² / ndf 1.753e+05 / 49
p0 −0.8675 ± 4.546e−05
pull
Entries 50
Mean 61.52
Std Dev 29.67

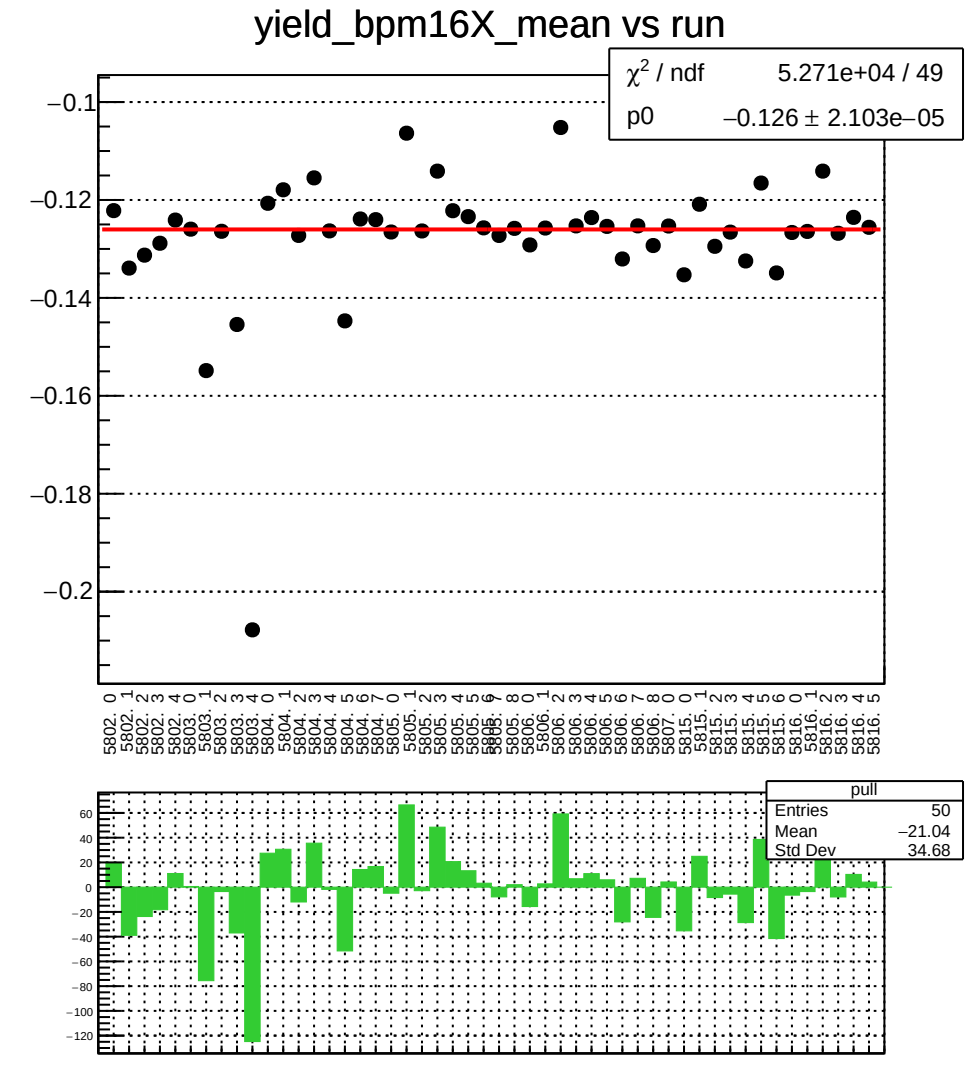

pull1D
Entries 50
Mean −3.01
Std Dev 3.104

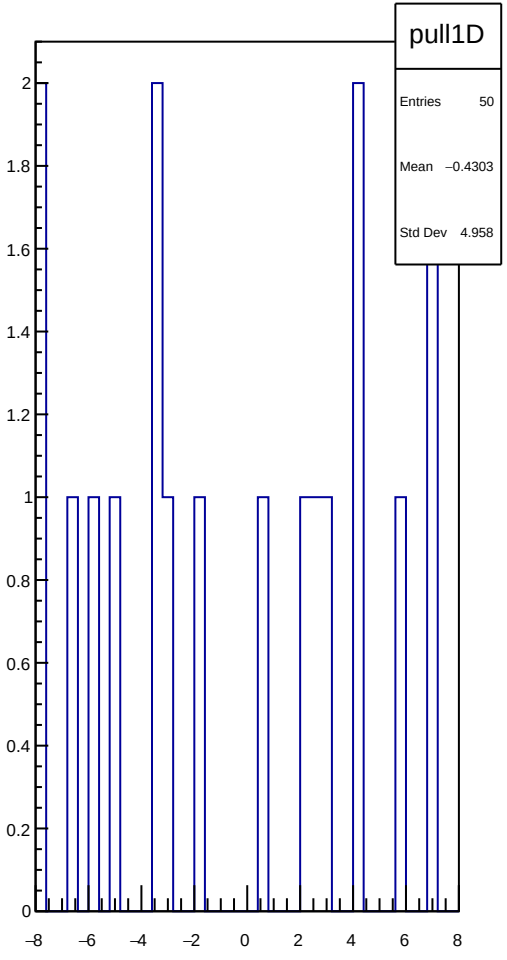

yield_bpm12X_rms vs run
χ² / ndf 1.115e+05 / 49
p0 0.02975 ± 3.215e−05
0.12
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

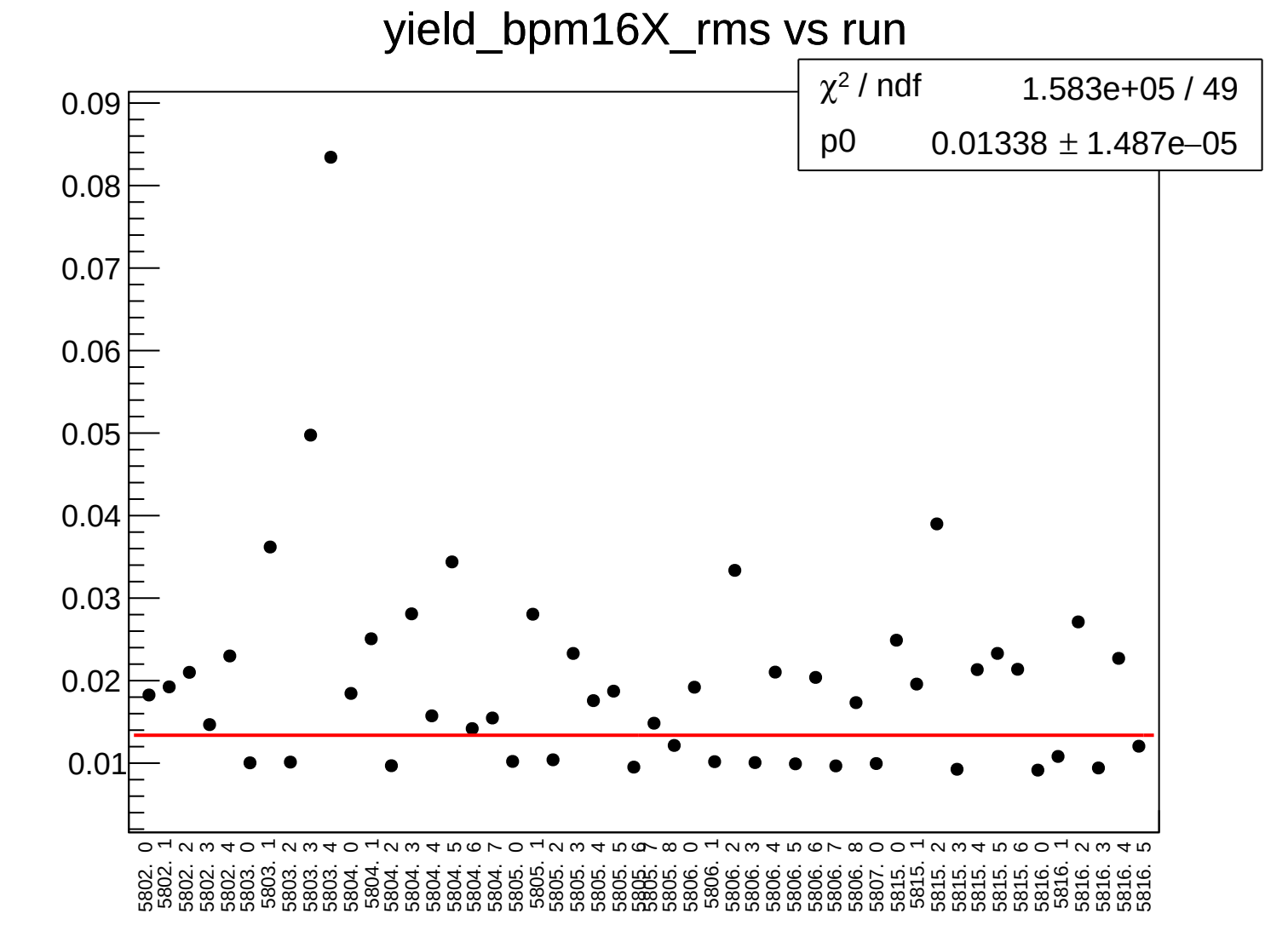

yield_bpm12Y_mean vs run
χ² / ndf 6.09e+05 / 49
p0 1.417 ± 2.025e−05
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
pull
Entries 50
Mean 445.3
Std Dev 427.3
300
200
100
0
−100

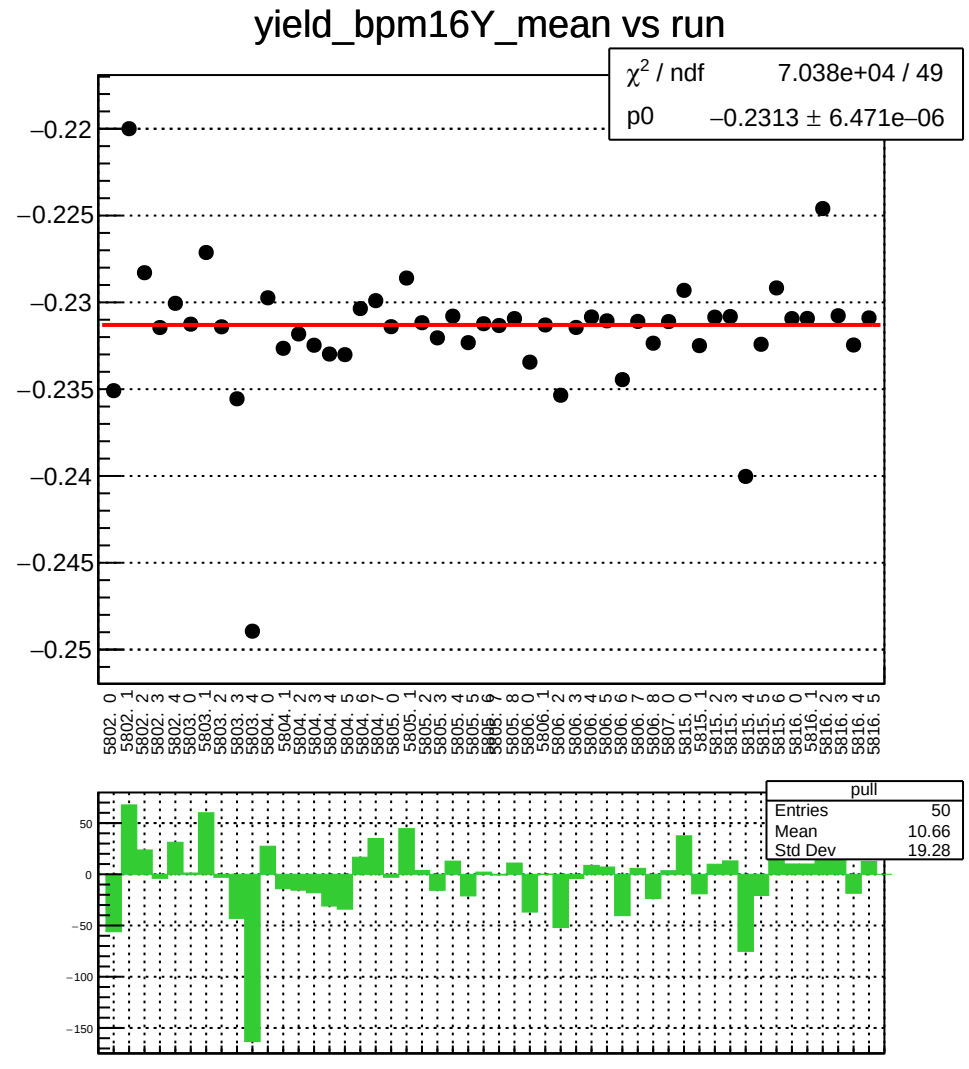

pull1D
Entries 50
Mean 1.438
Std Dev 0.6529
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

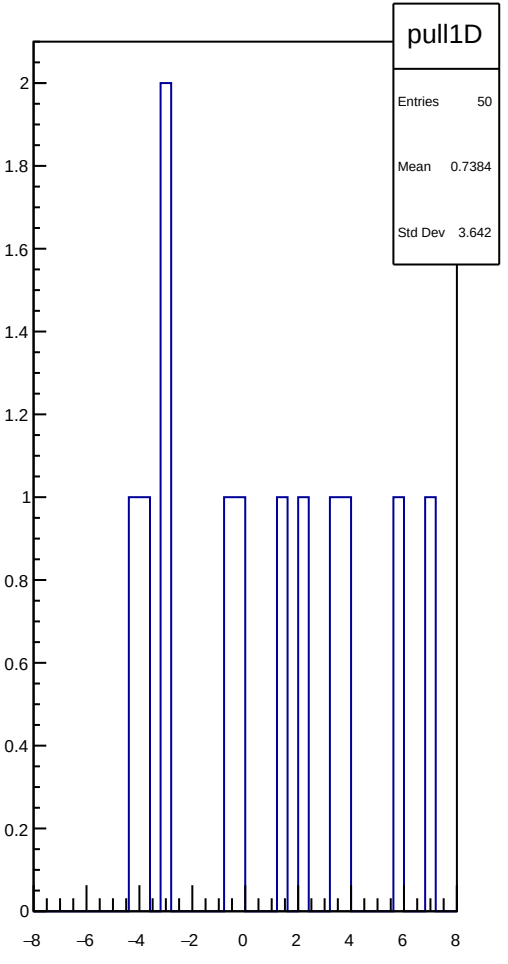

yield_bpm12Y_rms vs run
χ² / ndf 5.252e+04 / 49
p0 0.0137 ± 1.432e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

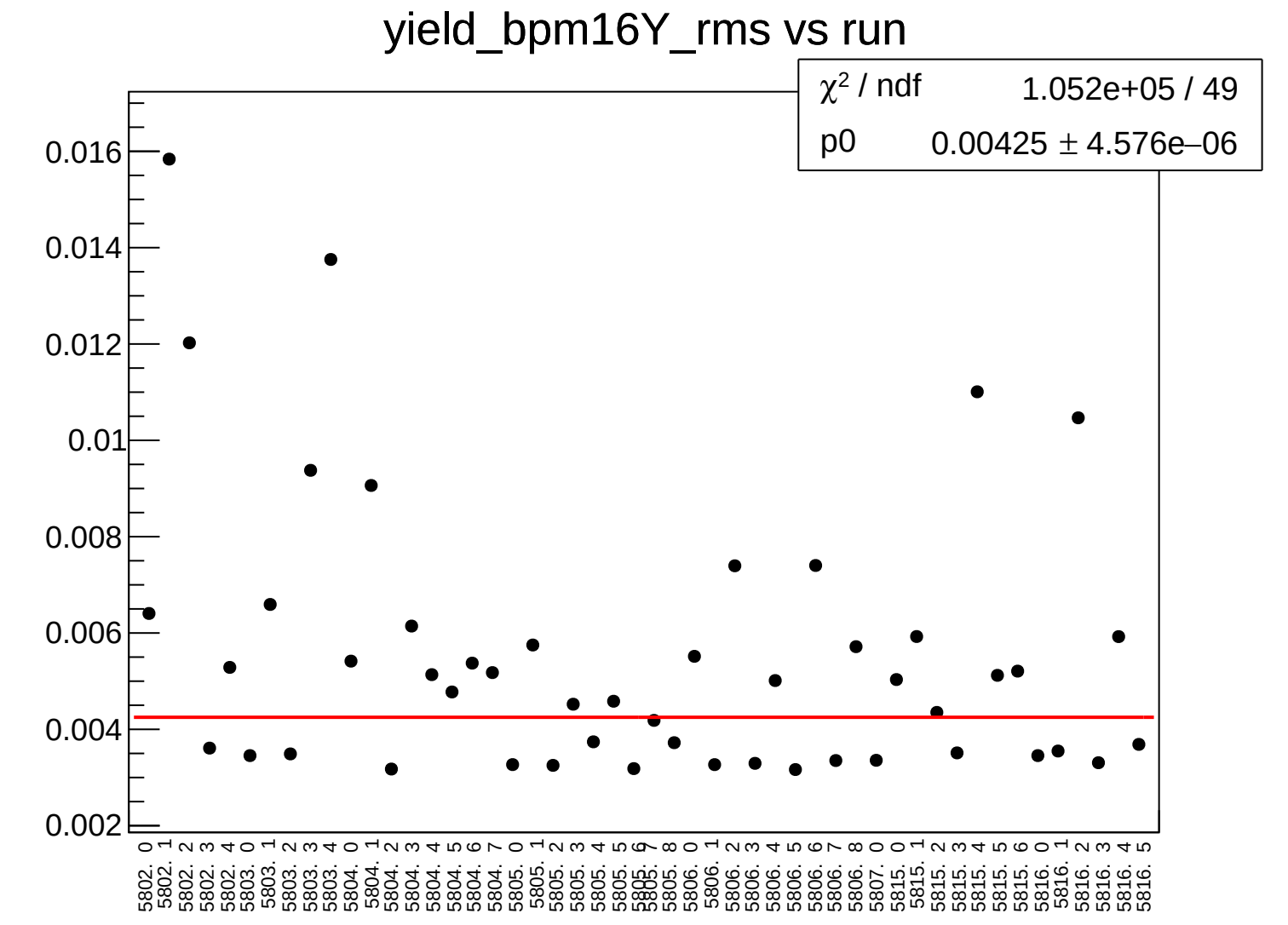

yield_bpm16X_mean vs run
χ² / ndf 5.271e+04 / 49
p0 −0.126 ± 2.103e−05
pull
Entries 50
Mean −21.04
Std Dev 34.68

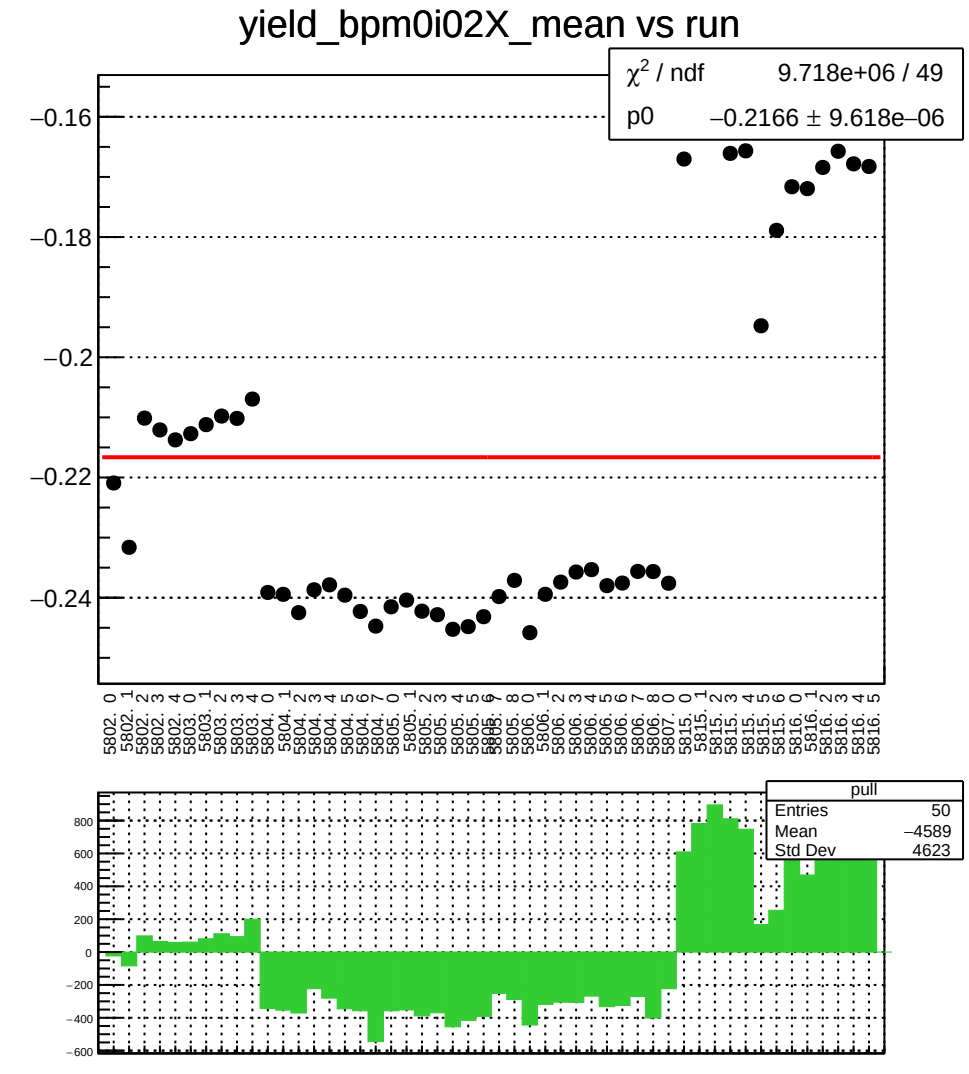

pull1D
Entries 50
Mean −0.4303
Std Dev 4.958

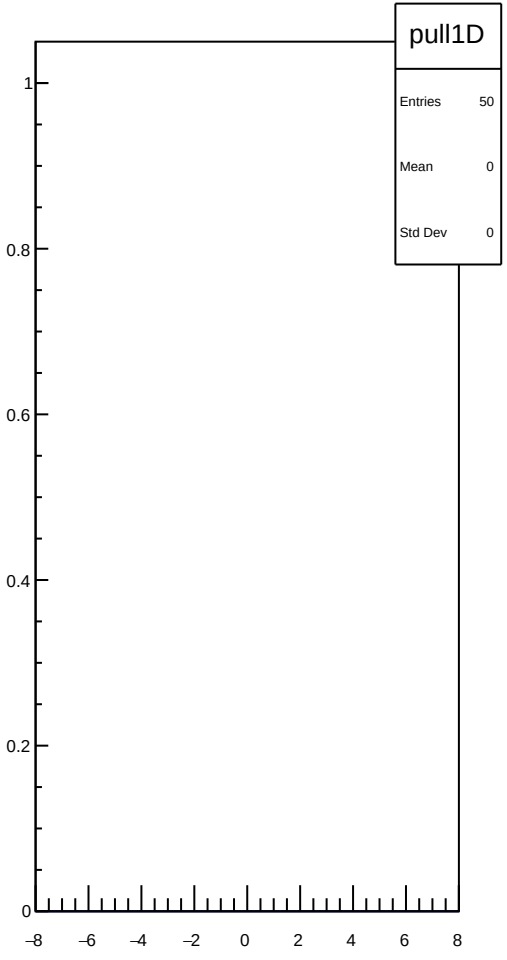

yield_bpm16X_rms vs run
χ² / ndf 1.583e+05 / 49
p0 0.01338 ± 1.487e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

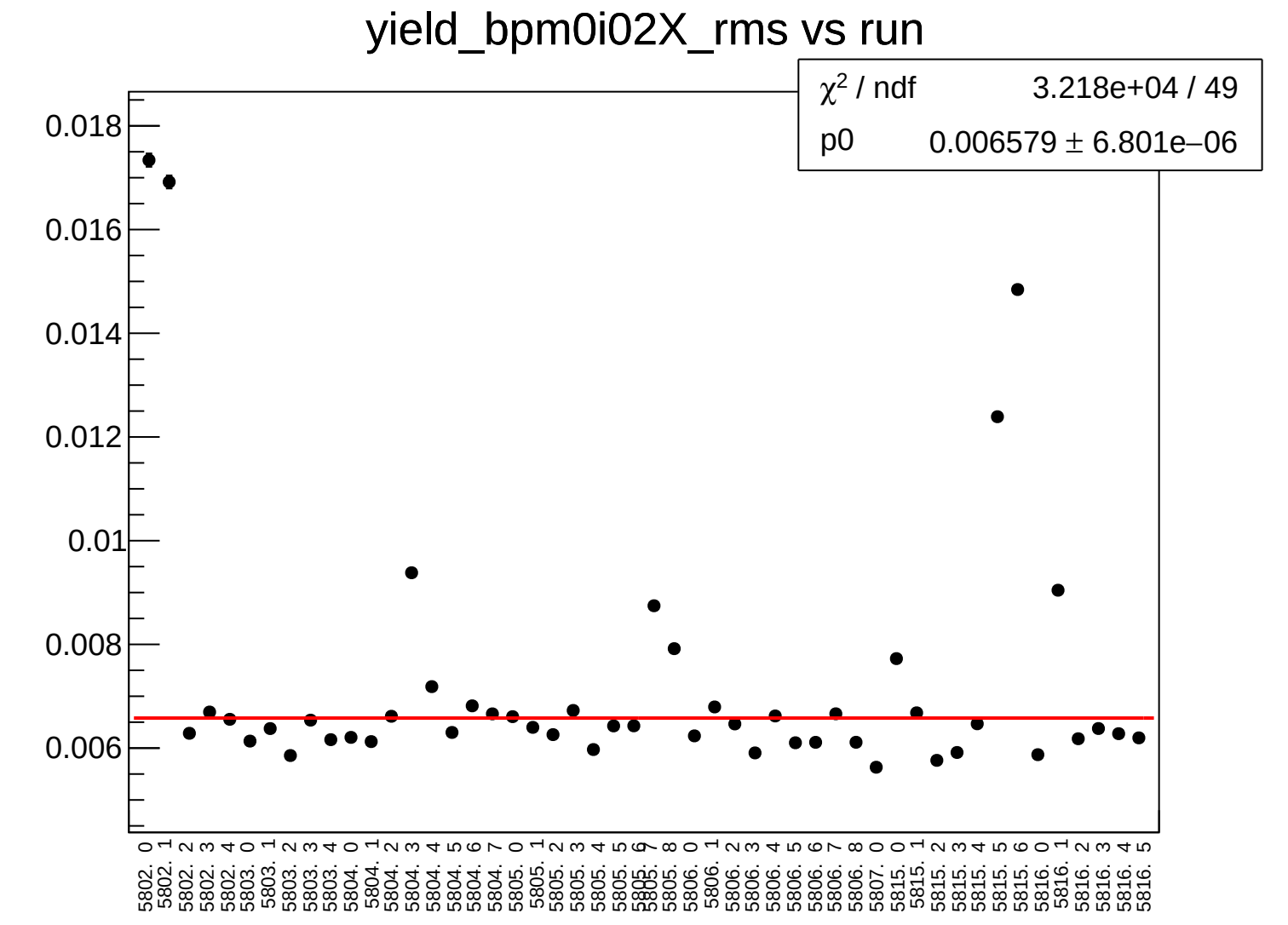

yield_bpm16Y_mean vs run
χ² / ndf 7.038e+04 / 49
p0 −0.2313 ± 6.471e−06
−0.22
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
pull
Entries 50
Mean 10.66
Std Dev 19.28
50
0
−50
−100
−150

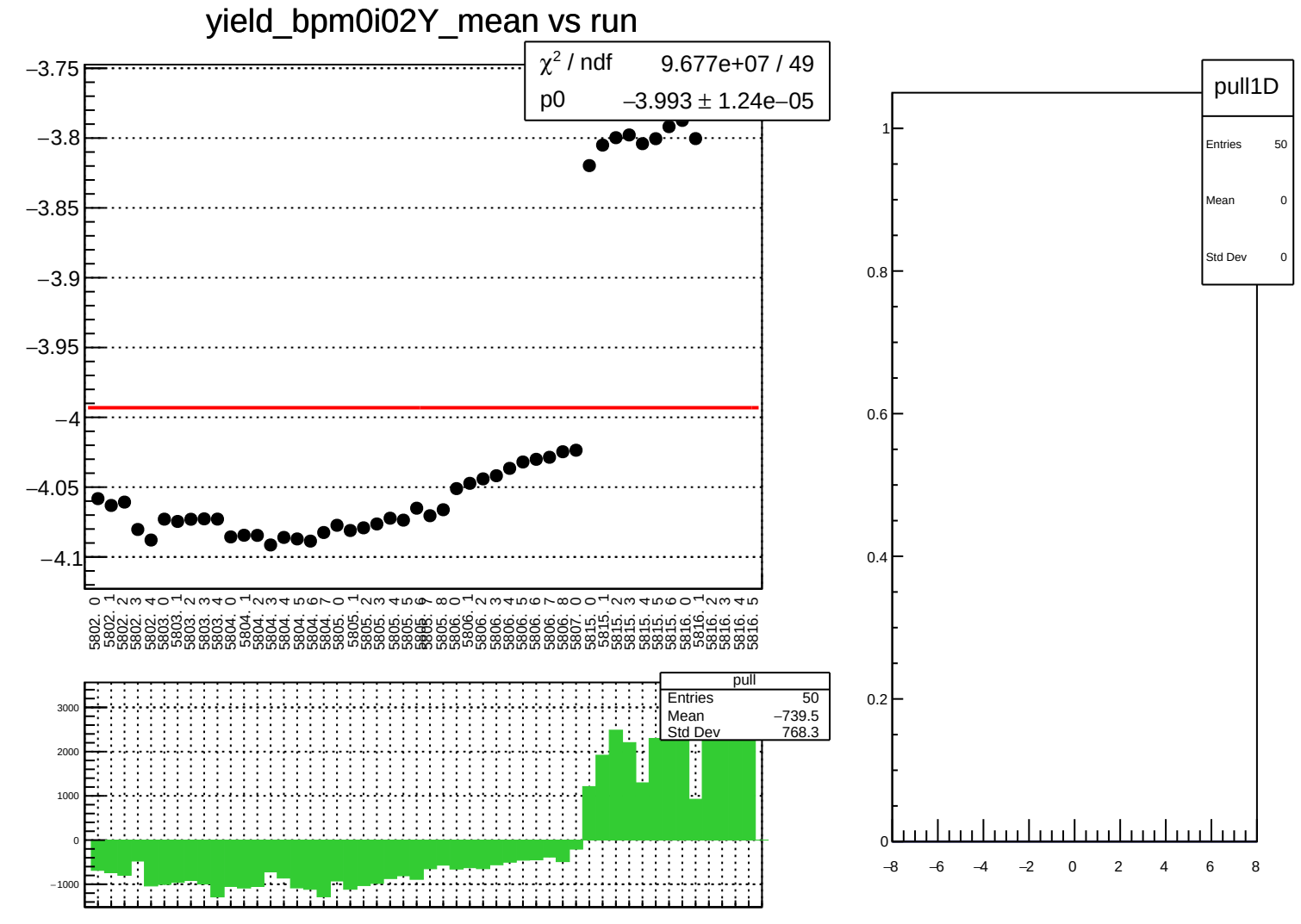

pull1D
Entries 50
Mean 0.7384
Std Dev 3.642
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

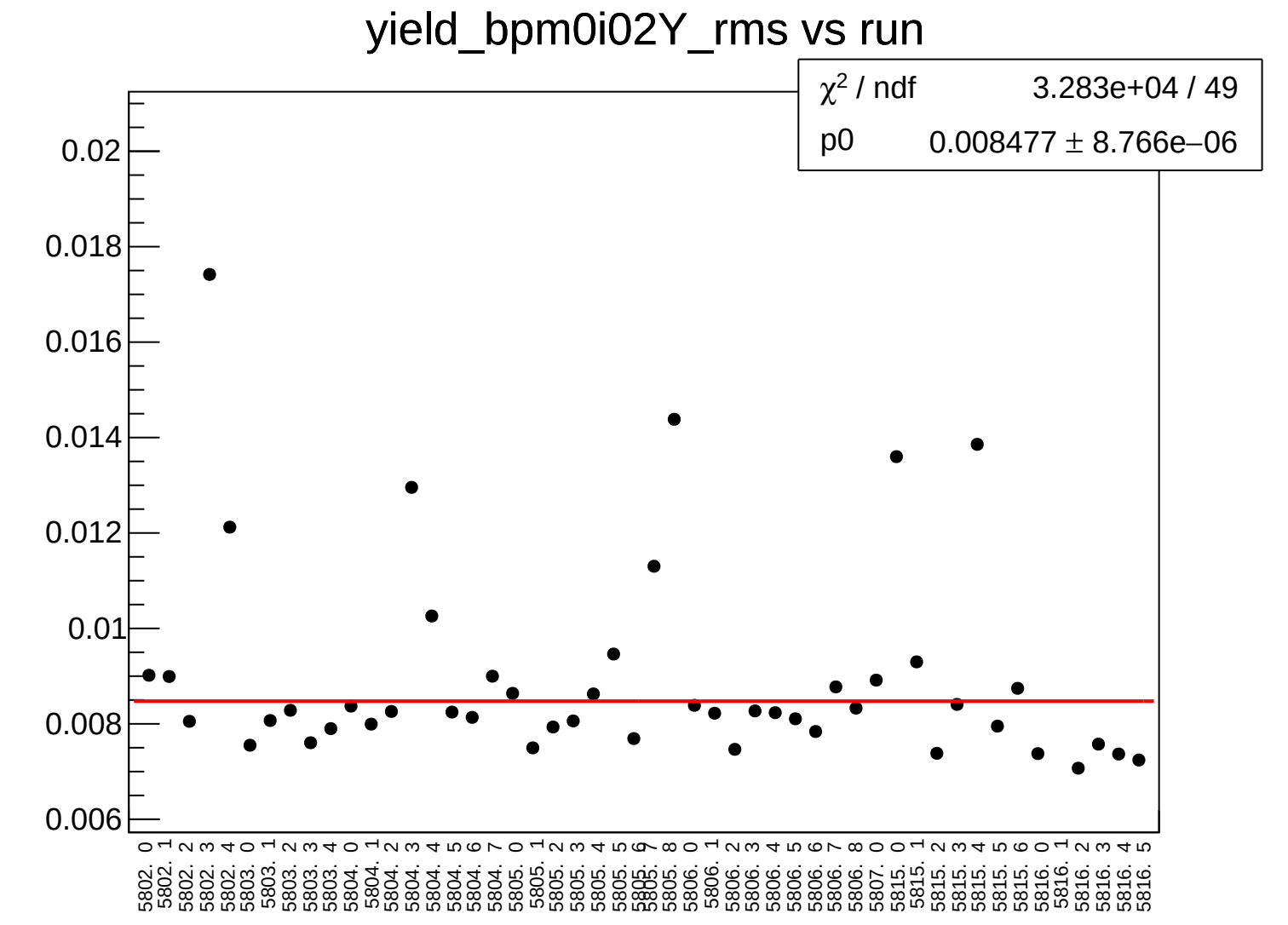

yield_bpm16Y_rms vs run
χ² / ndf 1.052e+05 / 49
p0 0.00425 ± 4.576e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

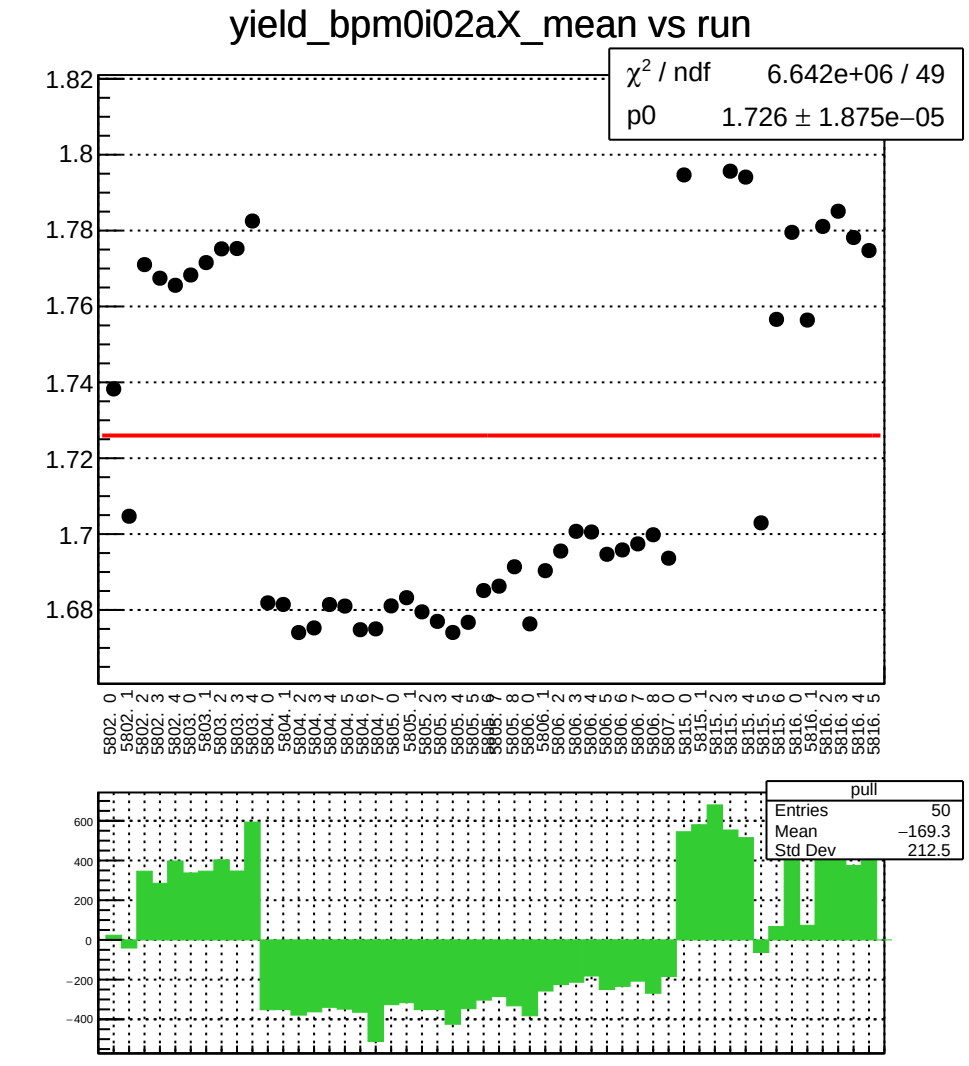

yield_bpm0i02X_mean vs run
χ² / ndf 9.718e+06 / 49
p0 −0.2166 ± 9.618e−06
−0.16
−0.18
−0.2
−0.22
−0.24
pull
Entries 50
Mean −4589
Std Dev 4623
800
600
400
200
0
−200
−400
−600

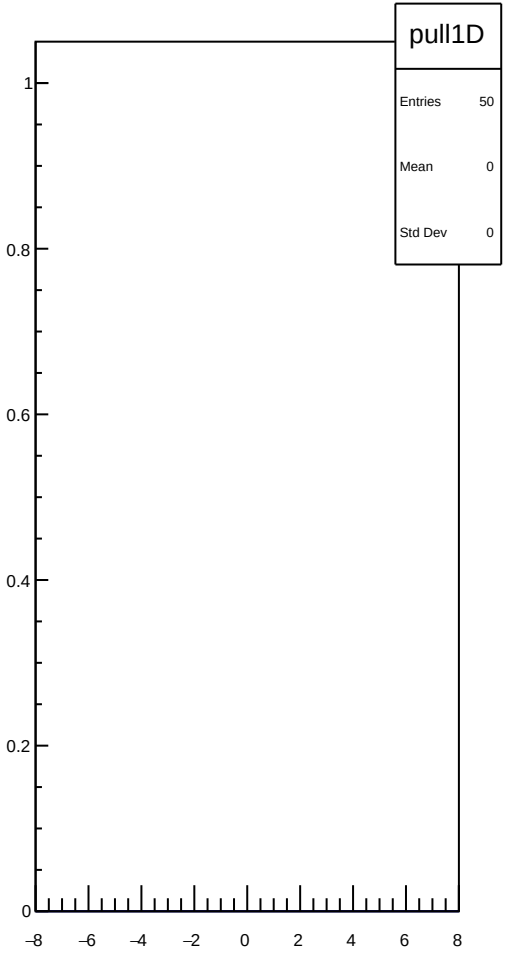

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

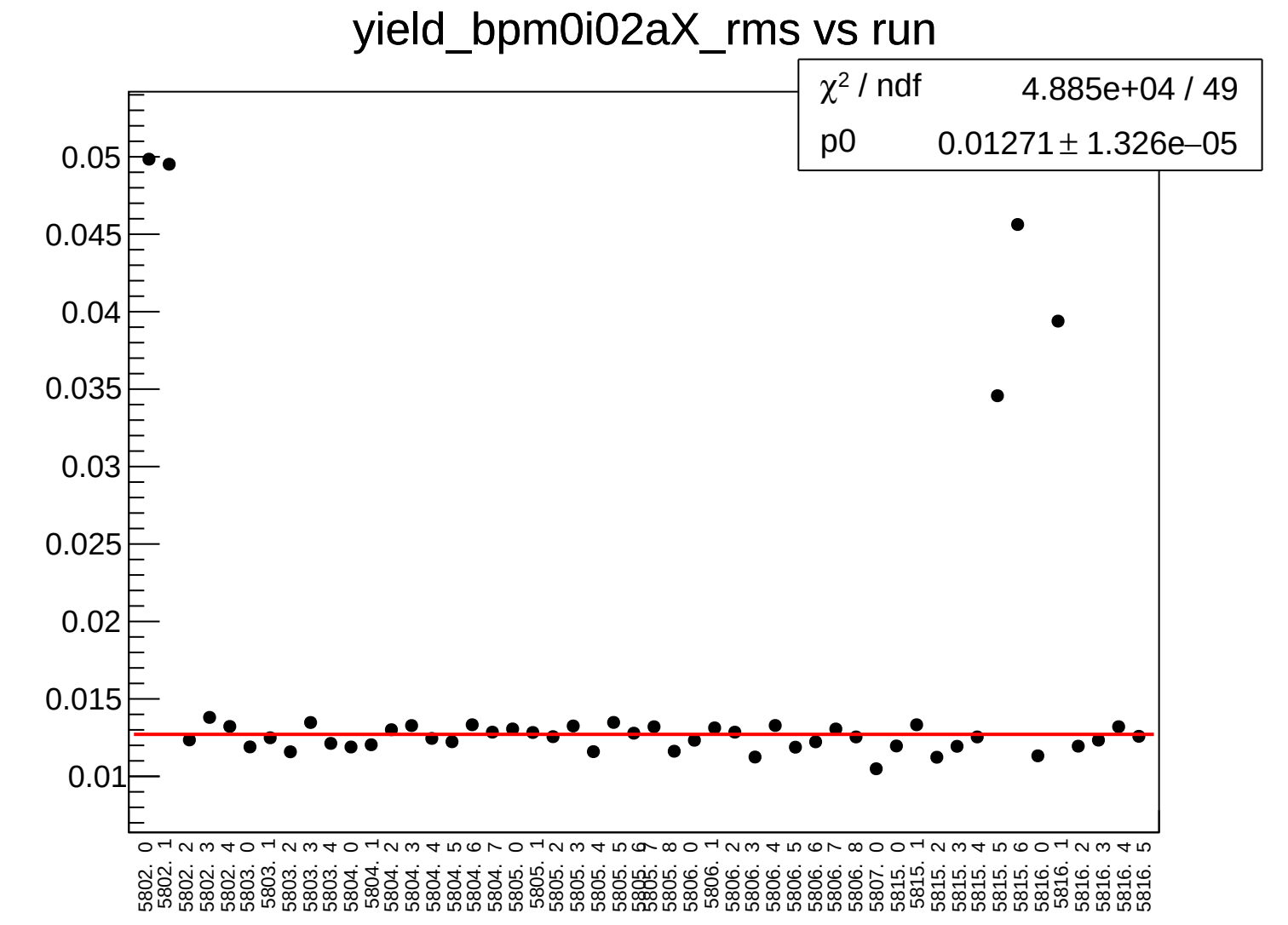

yield_bpm0i02X_rms vs run
χ² / ndf 3.218e+04 / 49
p0 0.006579 ± 6.801e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm0i02Y_mean vs run
χ² / ndf 9.677e+07 / 49
p0 −3.993 ± 1.24e−05
−3.75
−3.8
−3.85
−3.9
−3.95
−4
−4.05
−4.1
pull
Entries 50
Mean −739.5
Std Dev 768.3
3000
2000
1000
0
−1000
pull1D
Entries 50
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 3.283e+04 / 49
p0 0.008477 ± 8.766e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm0i02aX_mean vs run
χ² / ndf 6.642e+06 / 49
p0 1.726 ± 1.875e−05
1.82
1.8
1.78
1.76
1.74
1.72
1.7
1.68
pull
Entries 50
Mean −169.3
Std Dev 212.5
600
400
200
0
−200
−400


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02aX_rms vs run
χ² / ndf 4.885e+04 / 49
p0 0.01271 ± 1.326e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
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5803. 3
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5804. 0
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5805. 2
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5805. 5
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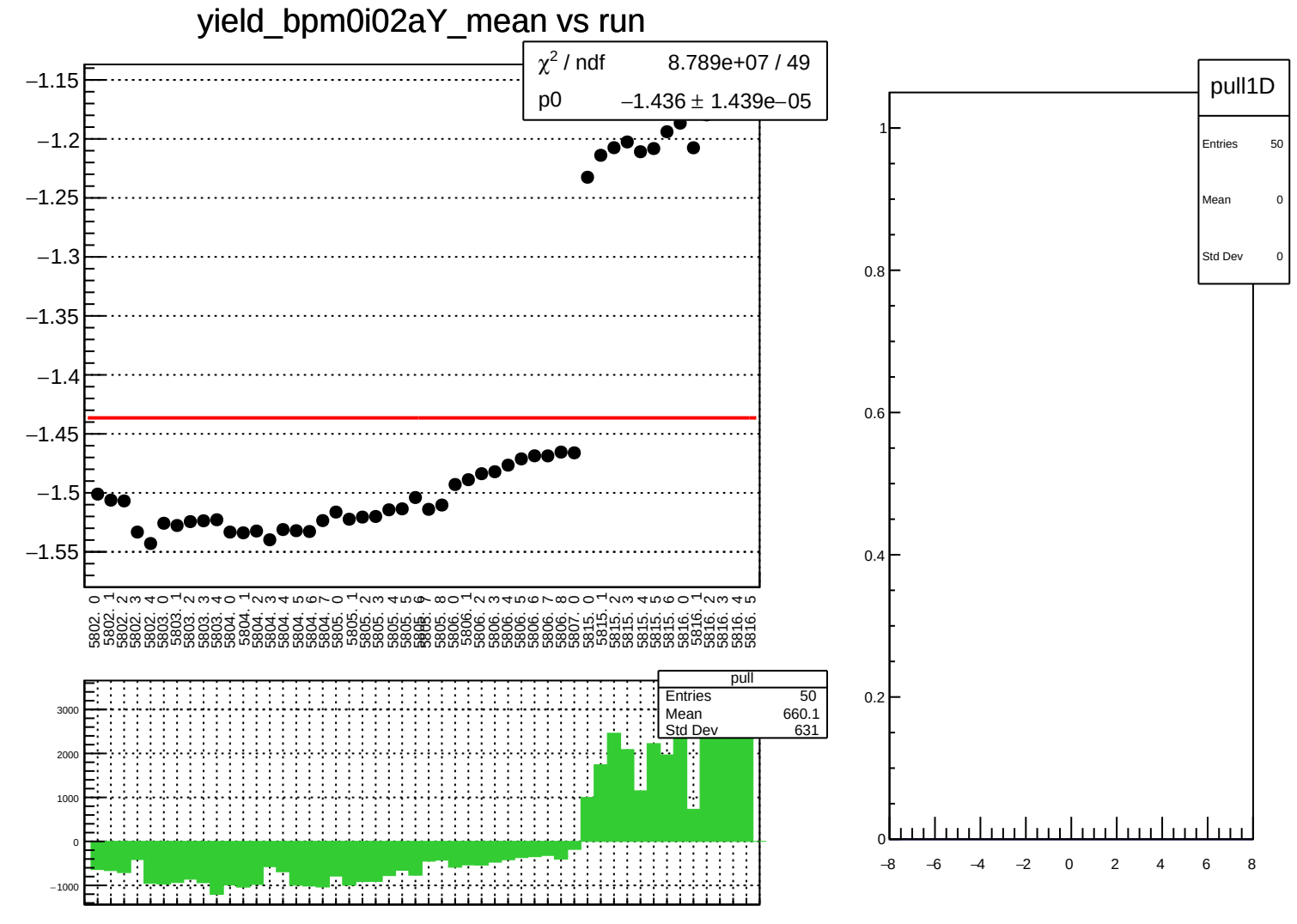
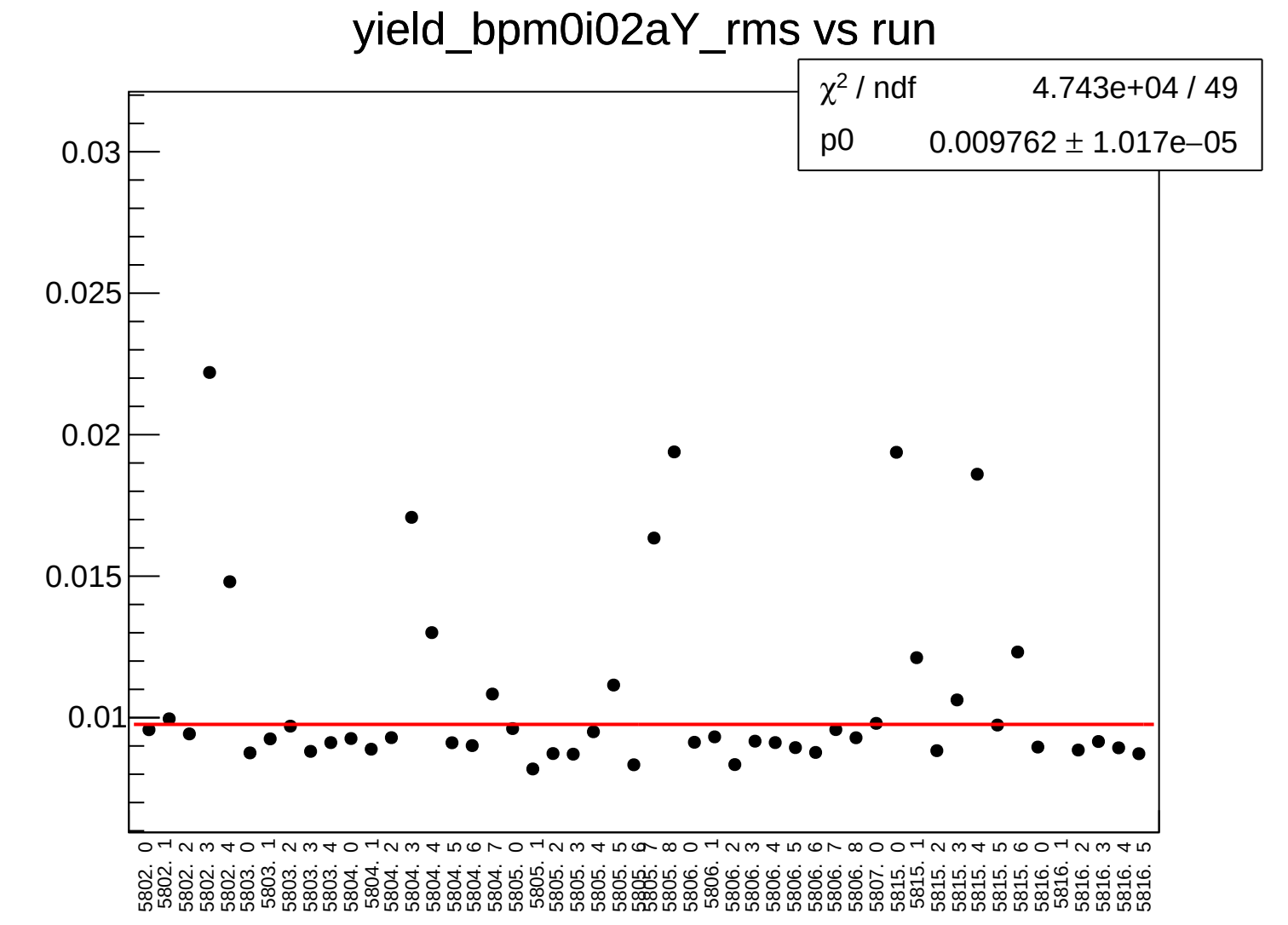
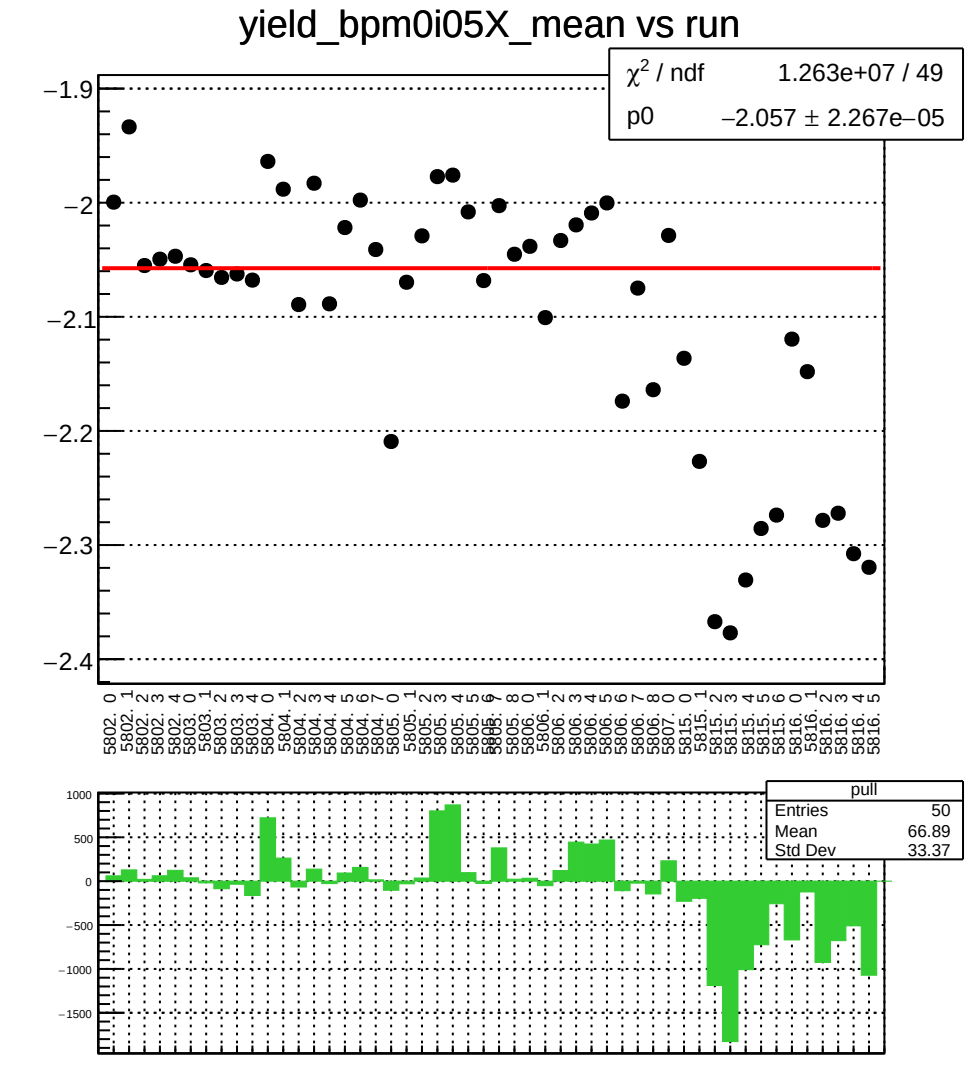
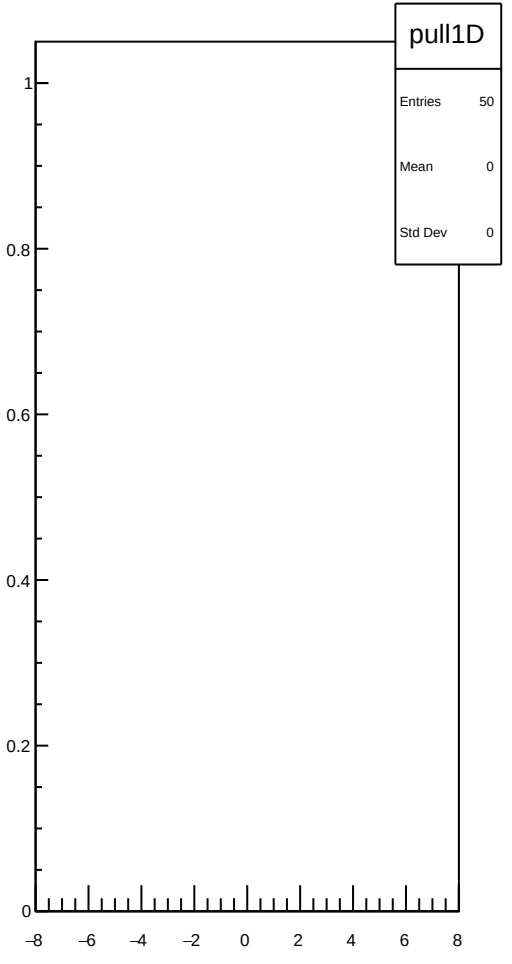
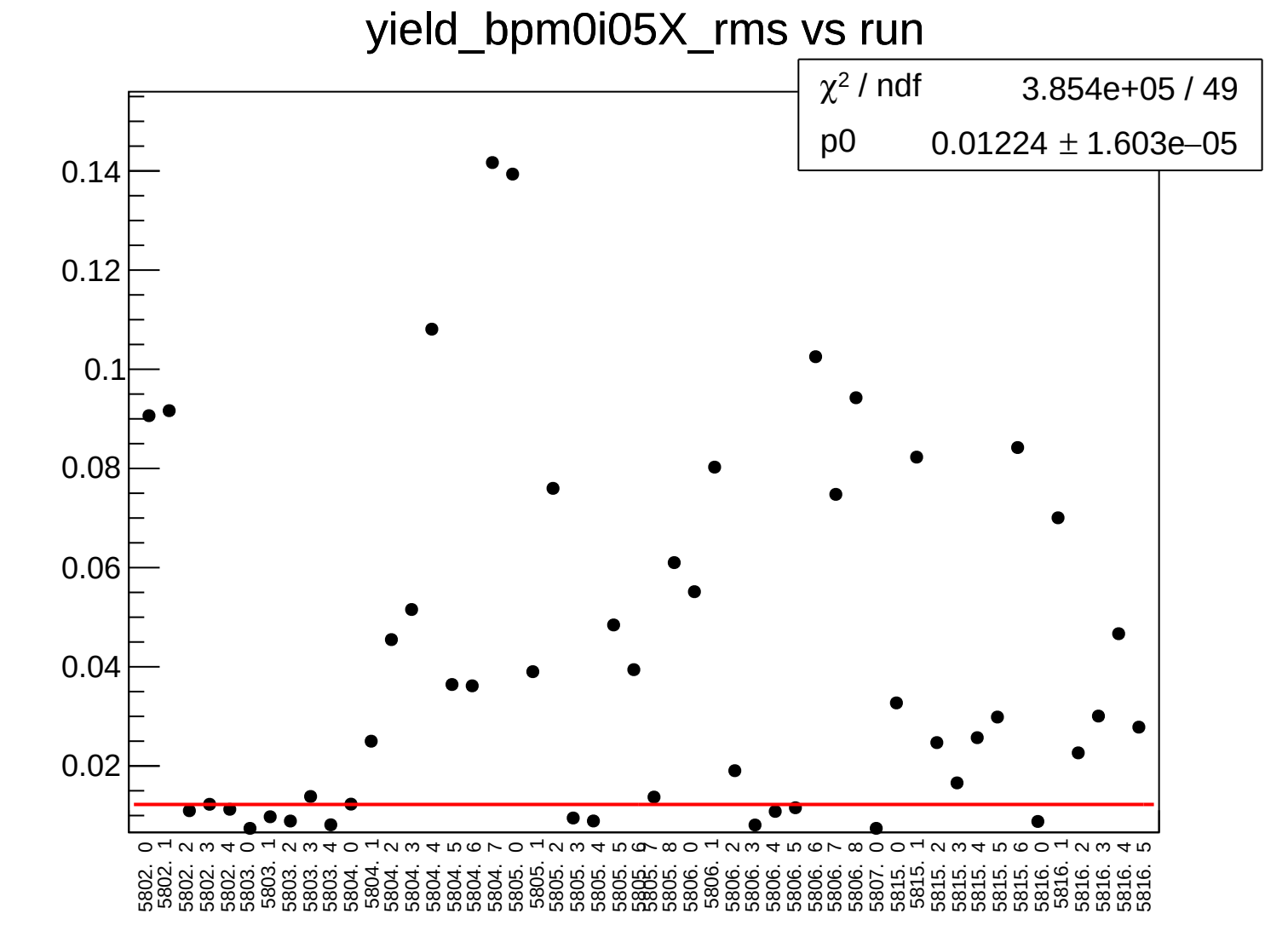
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

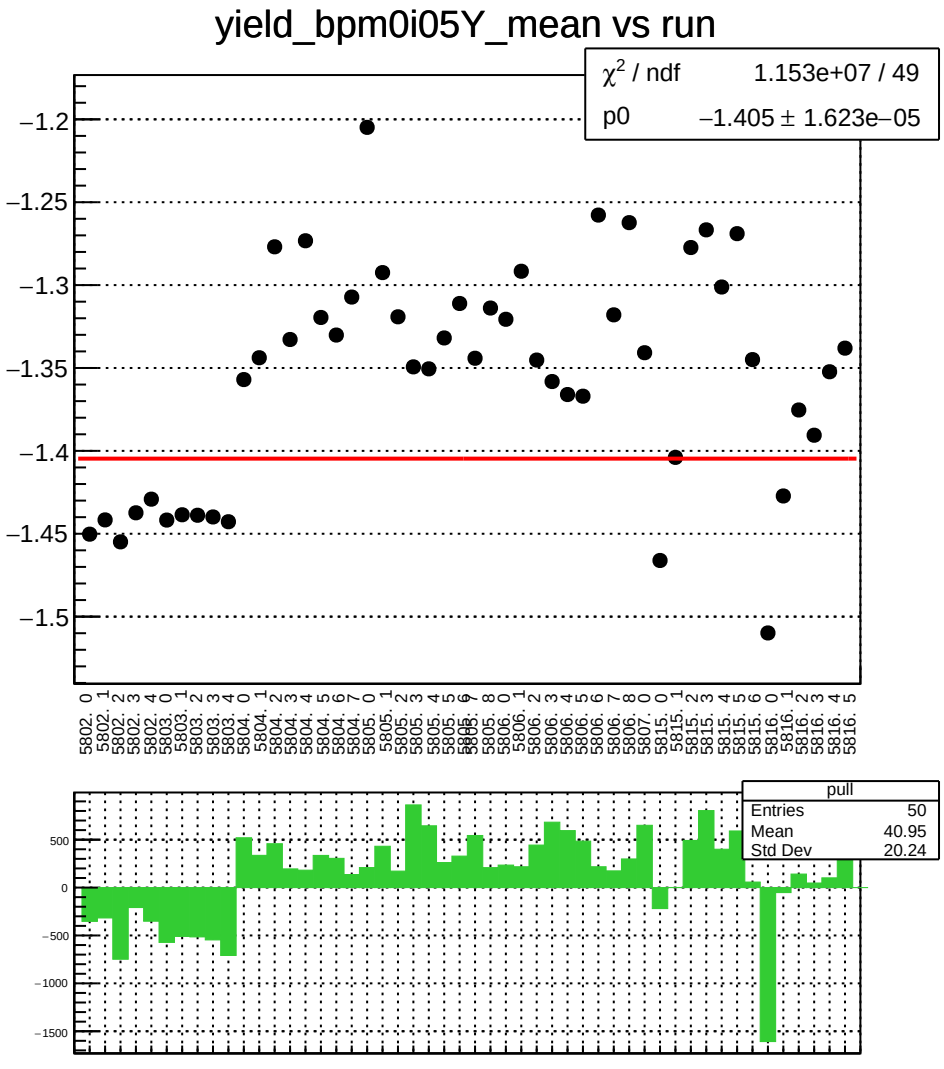

yield_bpm0i02aY_mean vs run
χ² / ndf 8.789e+07 / 49
p0 −1.436 ± 1.439e−05
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
−1.55
pull
Entries 50
Mean 660.1
Std Dev 631
3000
2000
1000
0
−1000
pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

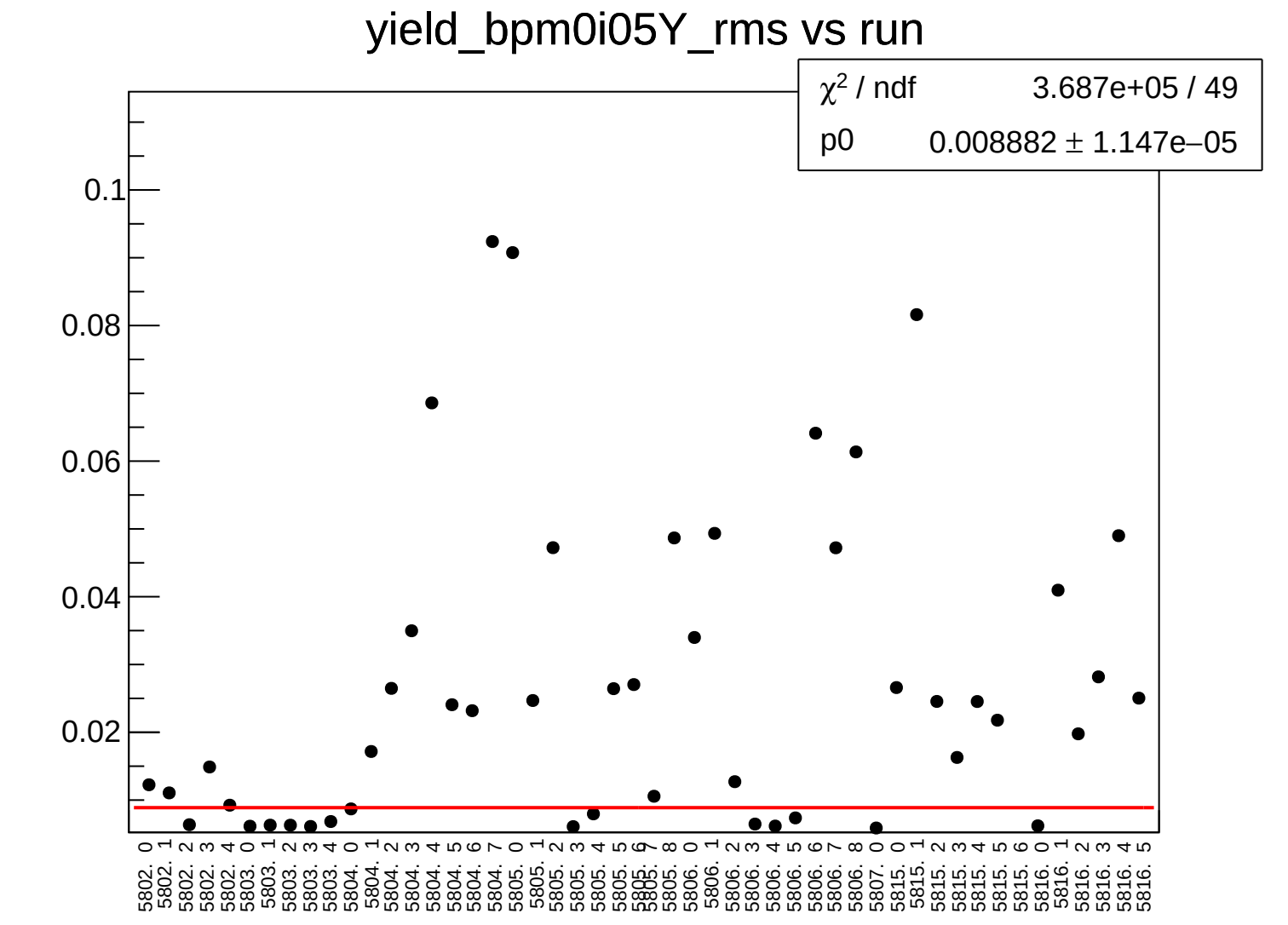

yield_bpm0i02aY_rms vs run
χ² / ndf 4.743e+04 / 49
p0 0.009762 ± 1.017e−05
0.03
0.025
0.02
0.015
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

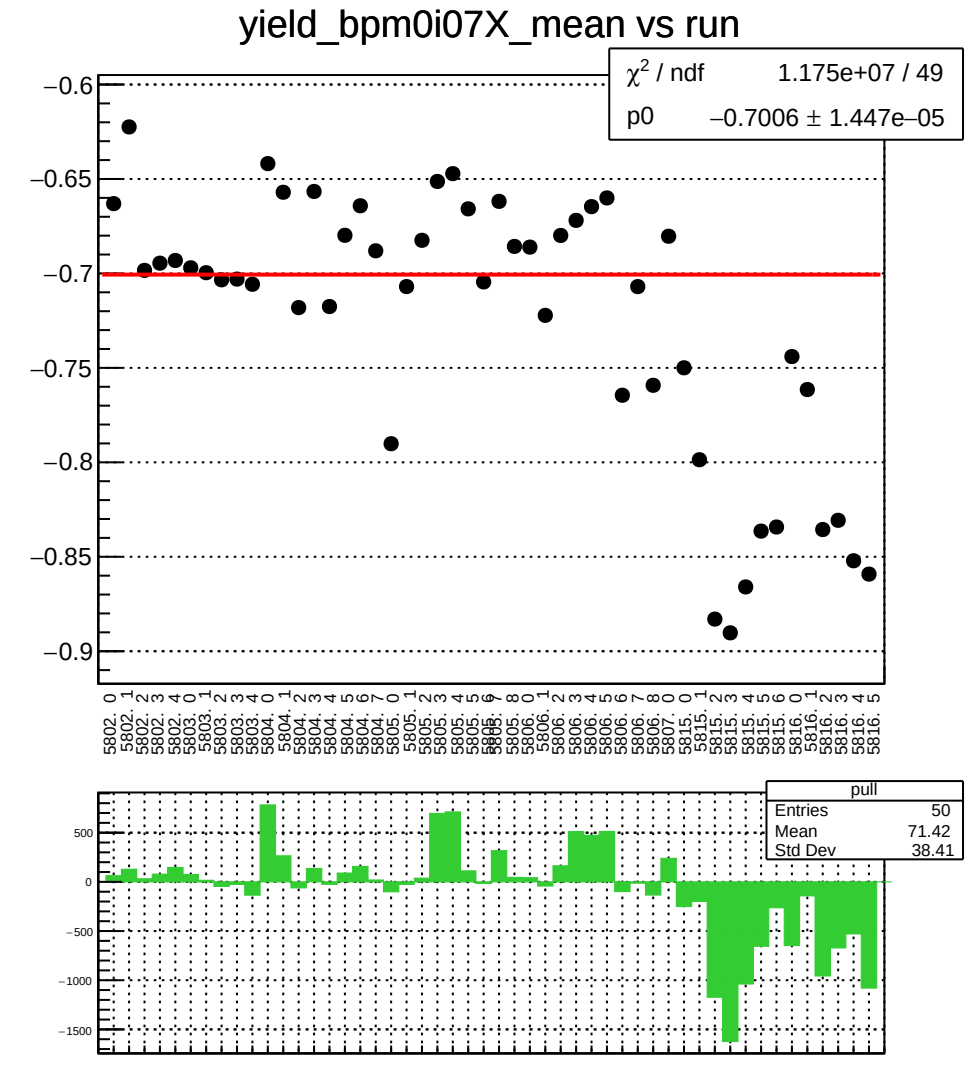

yield_bpm0i05X_mean vs run
χ² / ndf 1.263e+07 / 49
p0 −2.057 ± 2.267e−05
−1.9
−2
−2.1
−2.2
−2.3
−2.4
pull
Entries 50
Mean 66.89
Std Dev 33.37
1000
500
0
−500
−1000
−1500

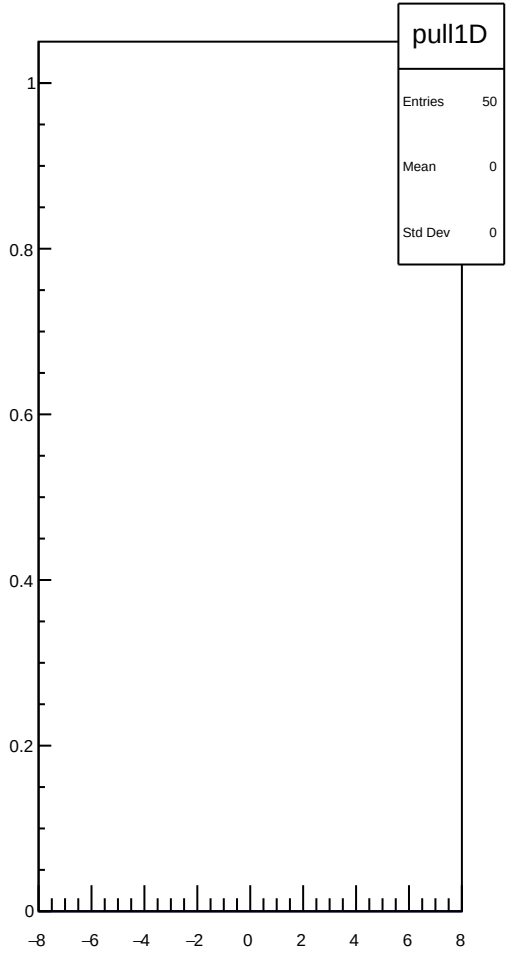

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

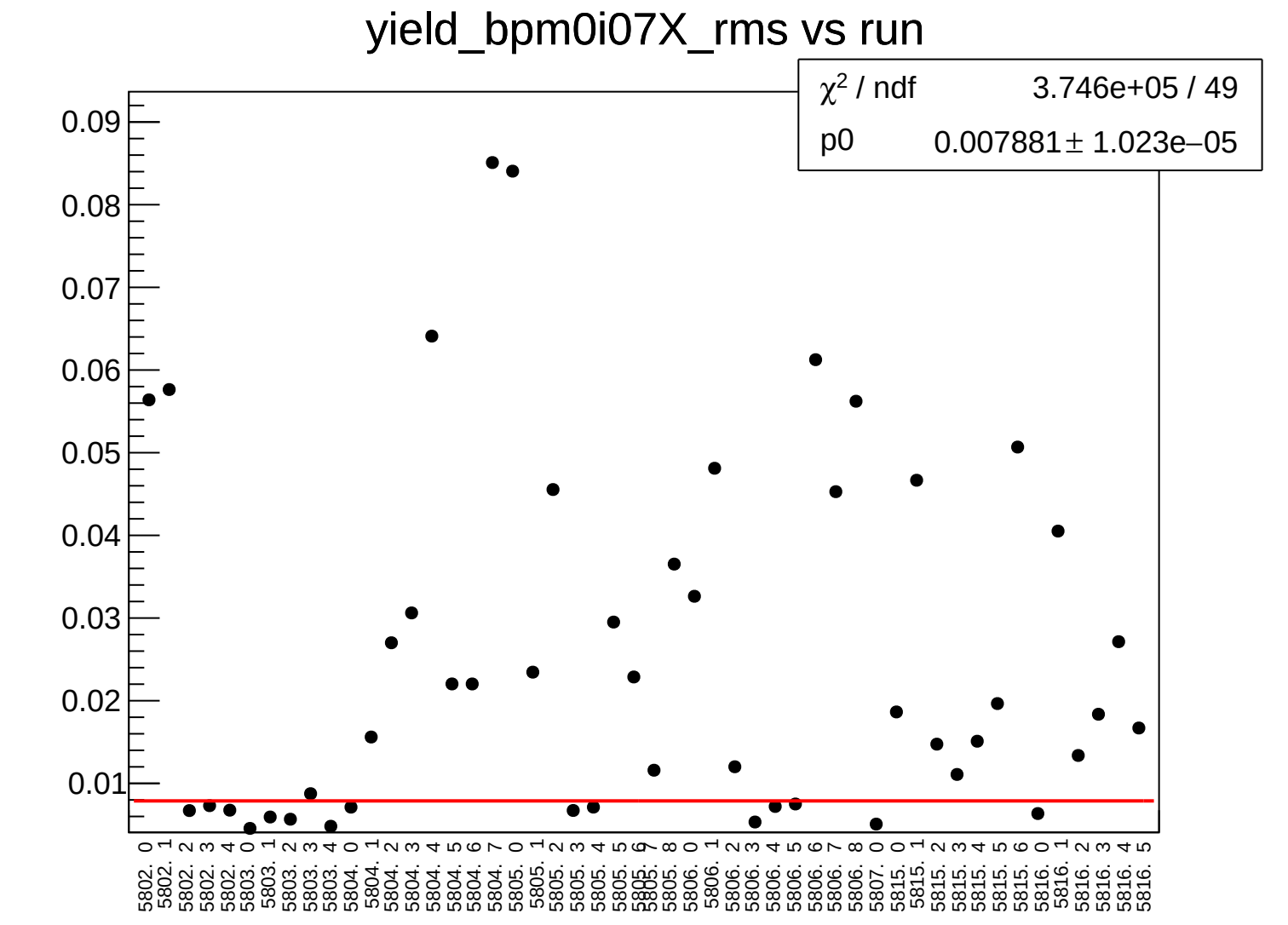

yield_bpm0i05X_rms vs run
χ² / ndf 3.854e+05 / 49
p0 0.01224 ± 1.603e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

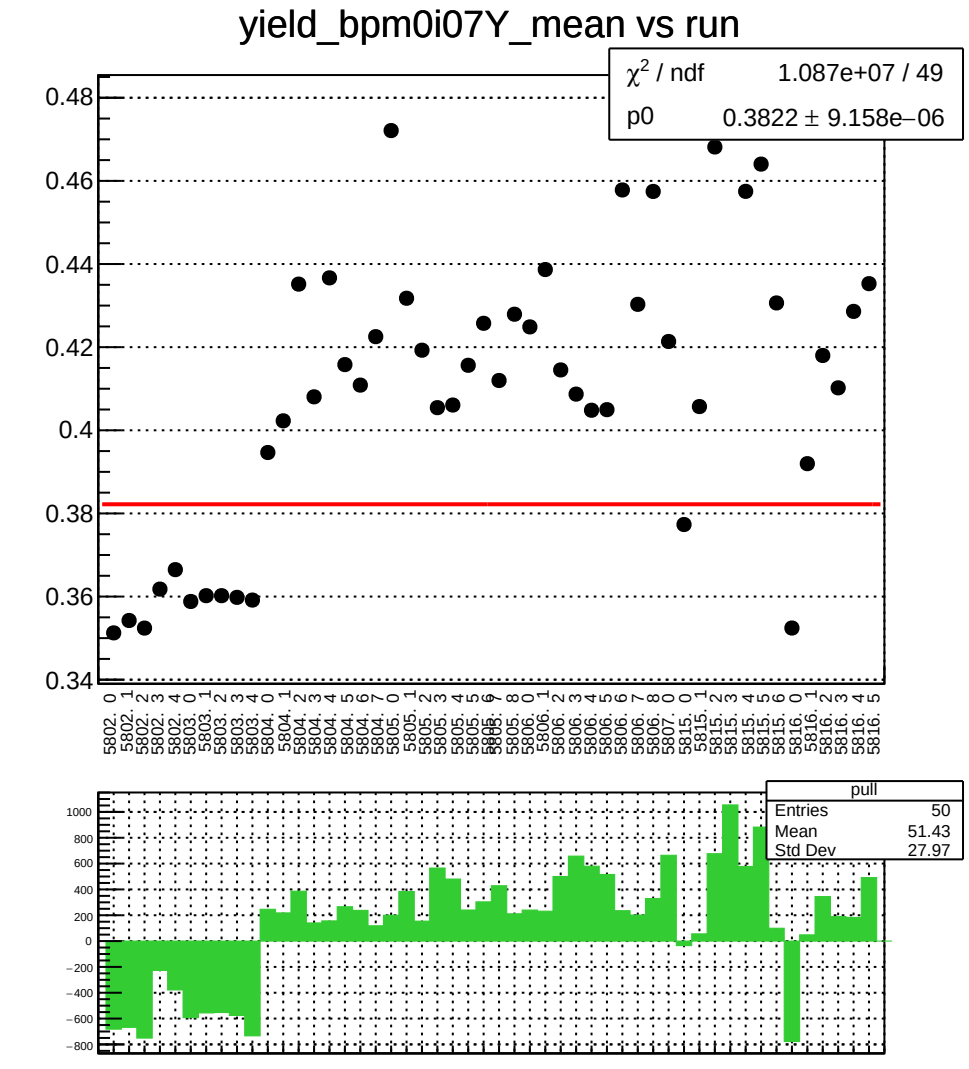

yield_bpm0i05Y_mean vs run
χ² / ndf 1.153e+07 / 49
p0 −1.405 ± 1.623e−05
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5804. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 50
Mean 40.95
Std Dev 20.24
500
0
−500
−1000
−1500
pull1D
Entries 50
Mean 0.873
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

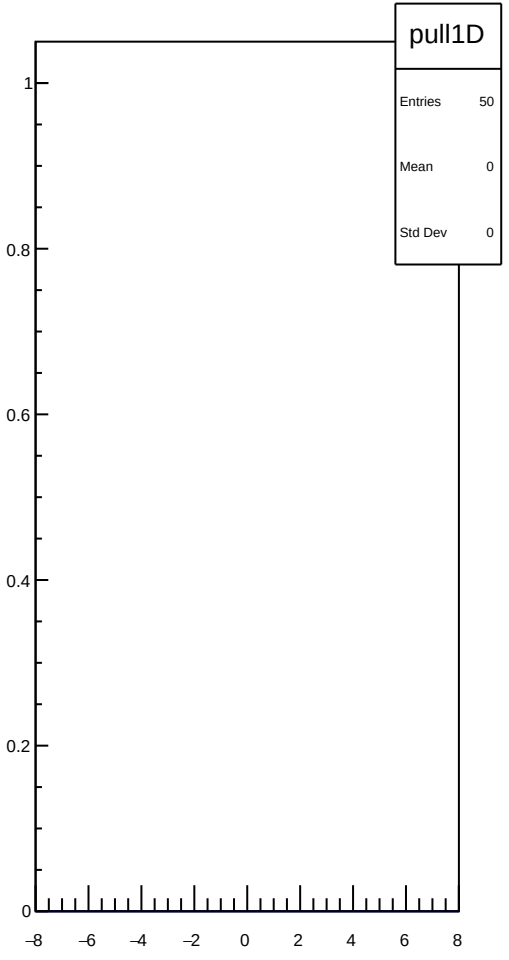

yield_bpm0i05Y_rms vs run
χ² / ndf 3.687e+05 / 49
p0 0.008882 ± 1.147e−05
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

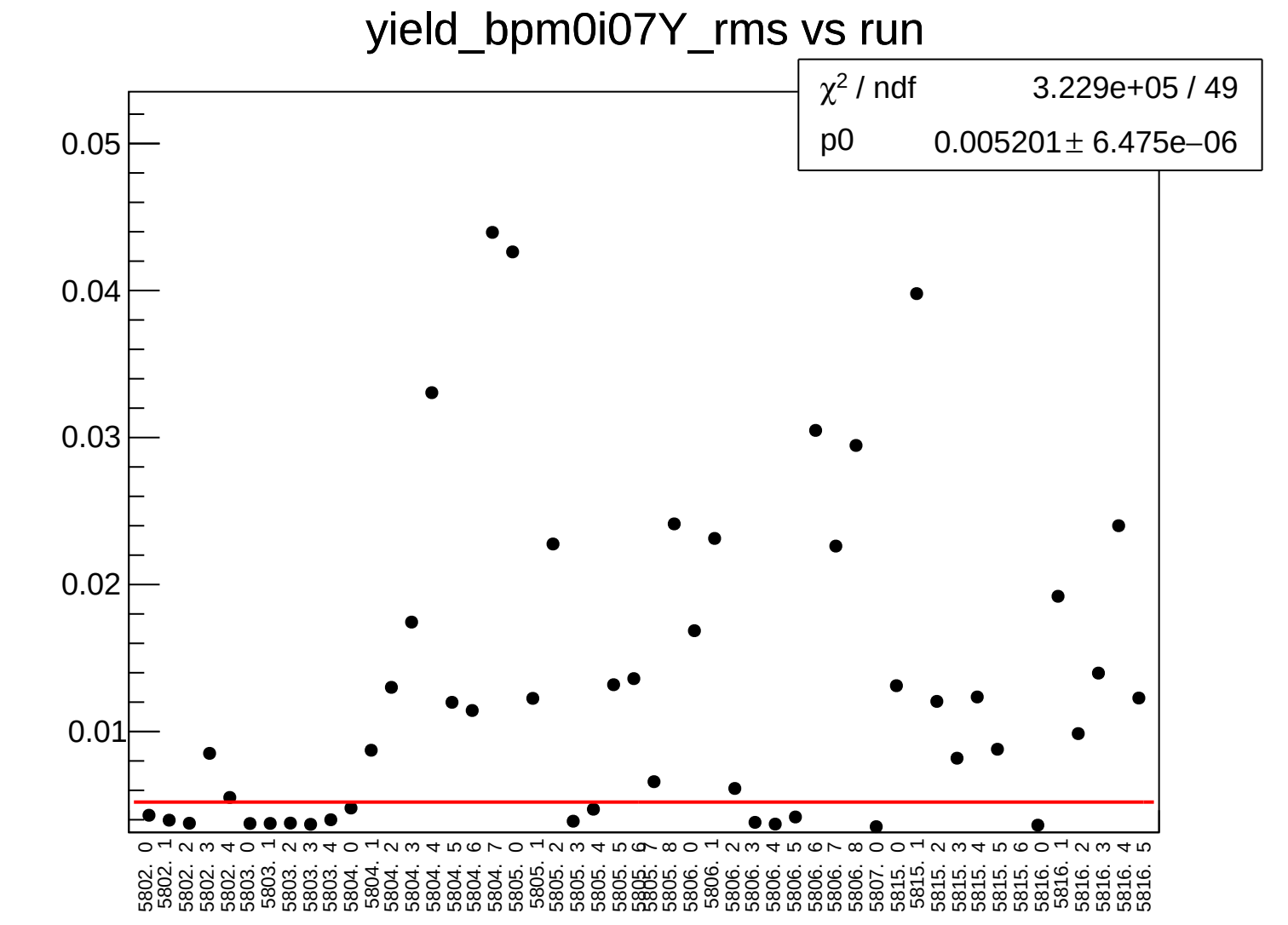

yield_bpm0i07X_mean vs run
χ² / ndf 1.175e+07 / 49
p0 −0.7006 ± 1.447e−05
pull
Entries 50
Mean 71.42
Std Dev 38.41

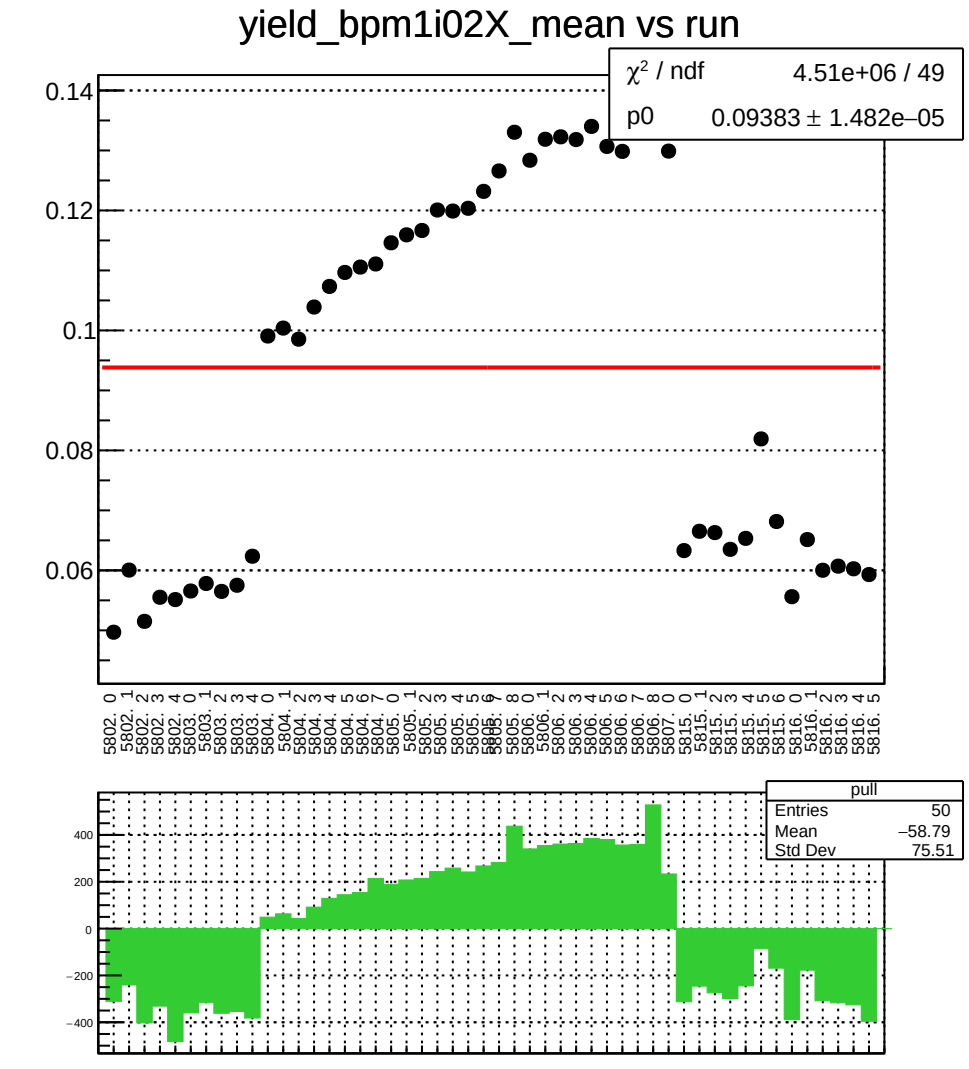

pull1D
Entries 50
Mean 0
Std Dev 0

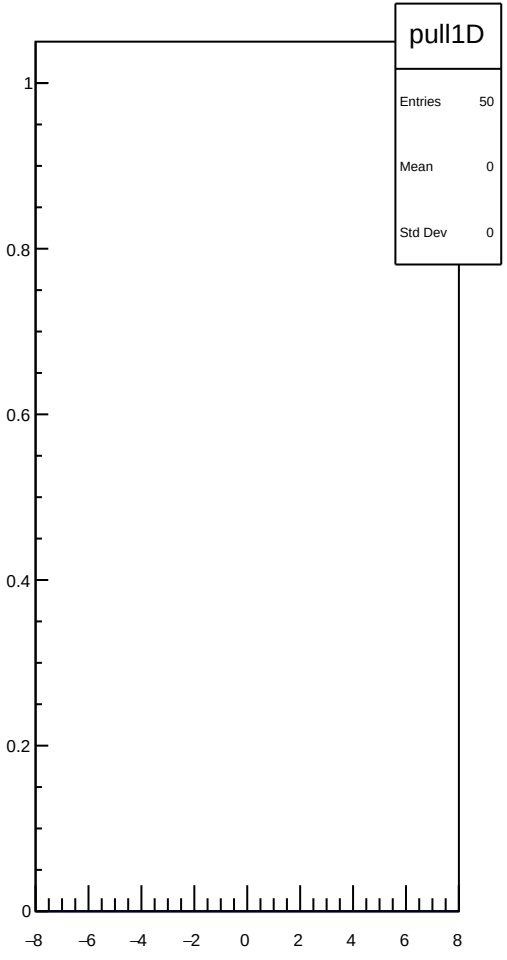

yield_bpm0i07X_rms vs run
χ² / ndf 3.746e+05 / 49
p0 0.007881 ± 1.023e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

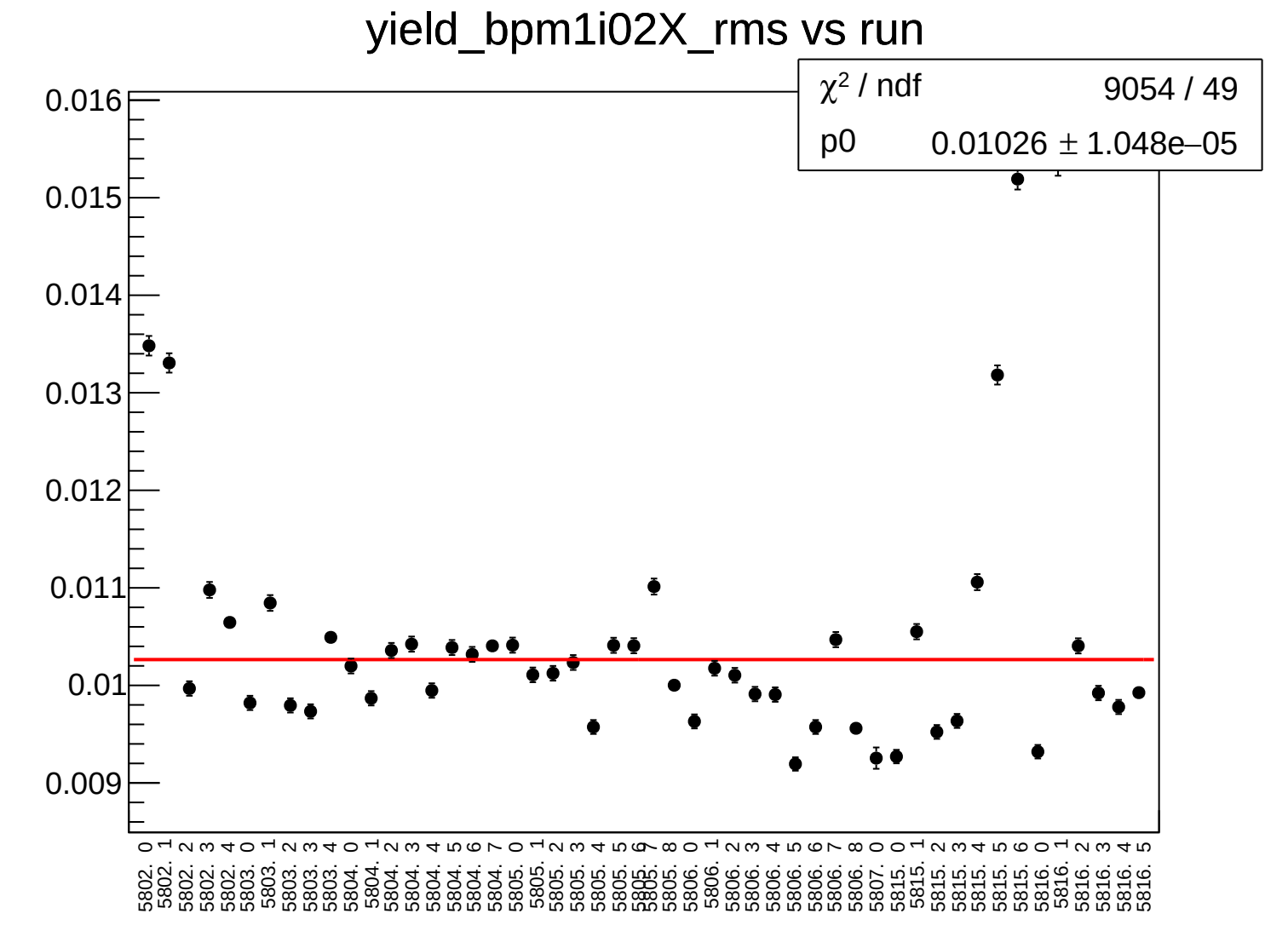

yield_bpm0i07Y_mean vs run
χ² / ndf 1.087e+07 / 49
p0 0.3822 ± 9.158e−06
pull
Entries 50
Mean 51.43
Std Dev 27.97

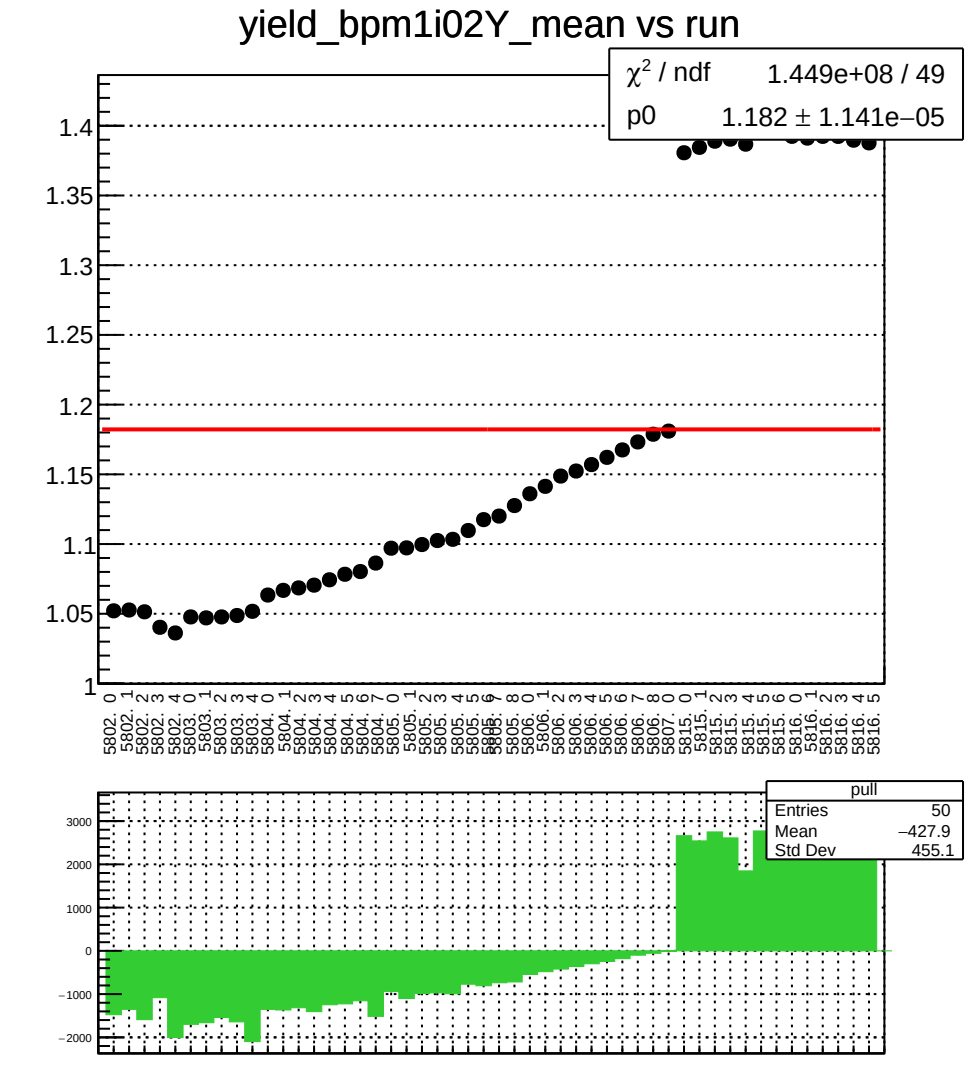

pull1D
Entries 50
Mean 0
Std Dev 0

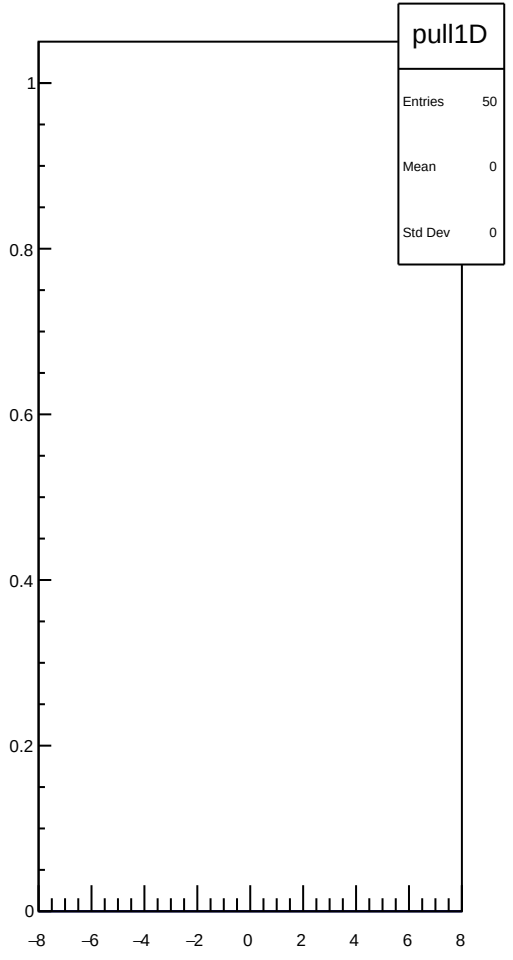

yield_bpm0i07Y_rms vs run
χ² / ndf 3.229e+05 / 49
p0 0.005201 ± 6.475e−06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

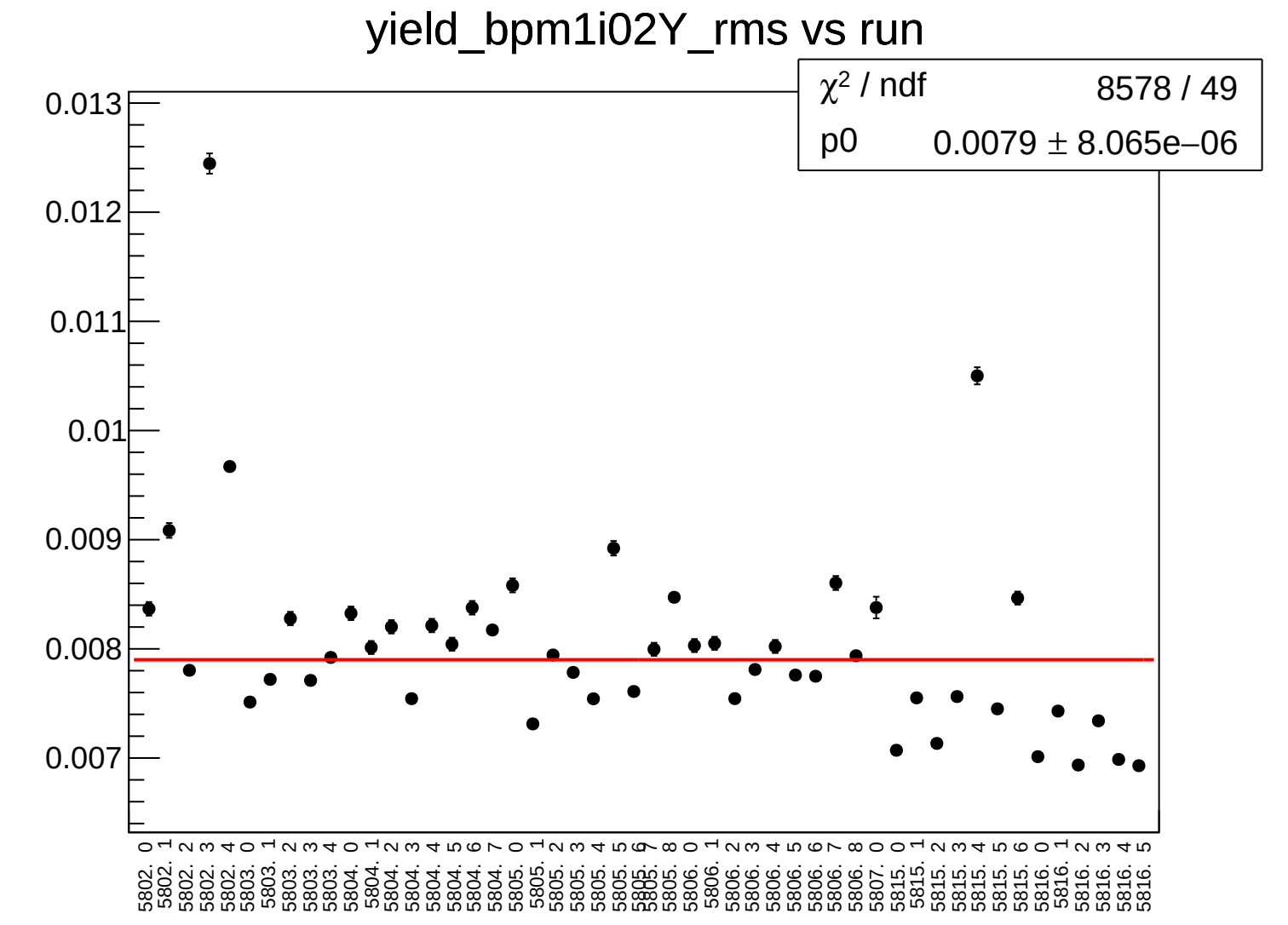

yield_bpm1i02X_mean vs run
χ² / ndf 4.51e+06 / 49
p0 0.09383 ± 1.482e−05
0.14
0.12
0.1
0.08
0.06
pull
Entries 50
Mean −58.79
Std Dev 75.51
400
200
0
−200
−400

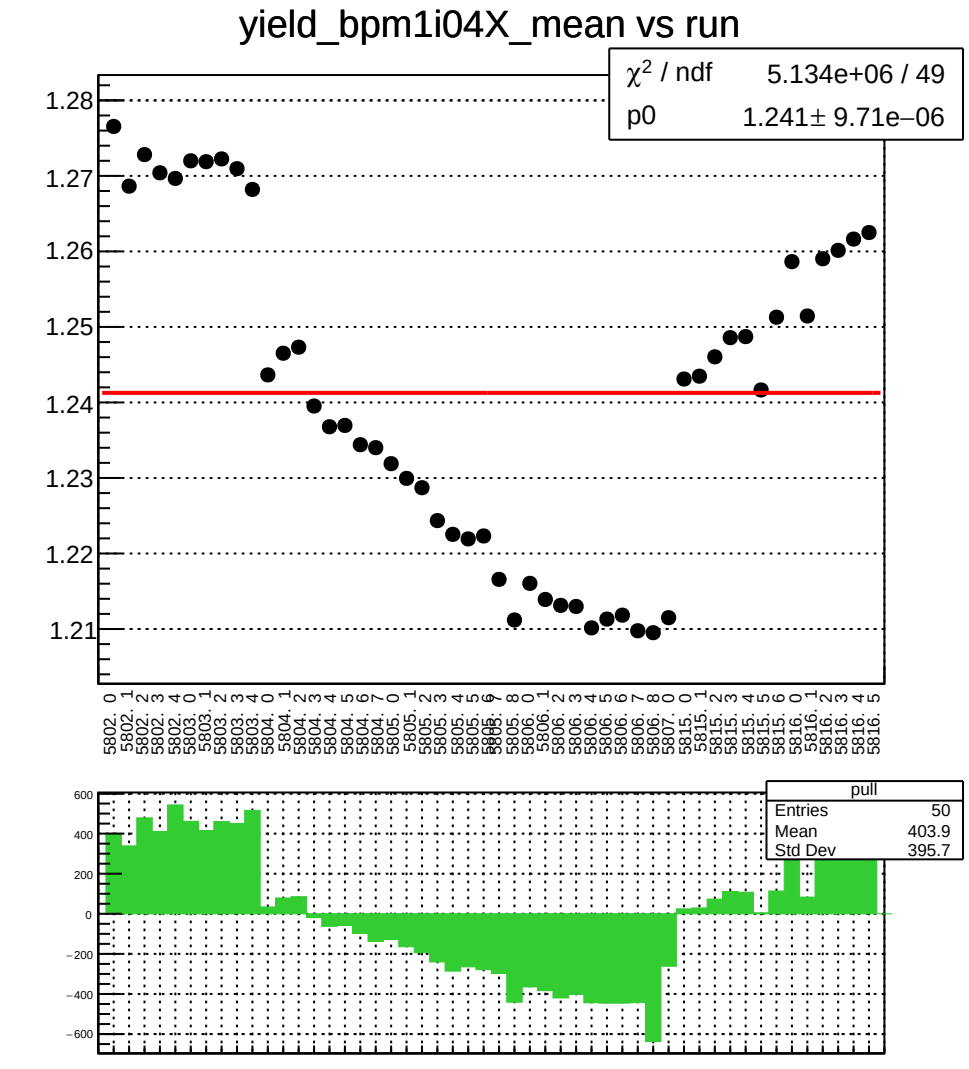

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

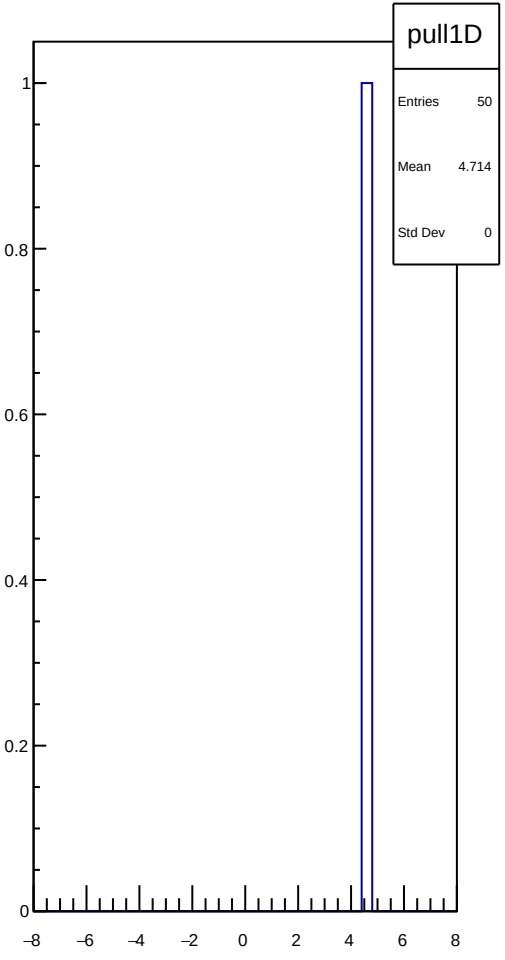

yield_bpm1i02X_rms vs run
χ² / ndf 9054 / 49
p0 0.01026 ± 1.048e–05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

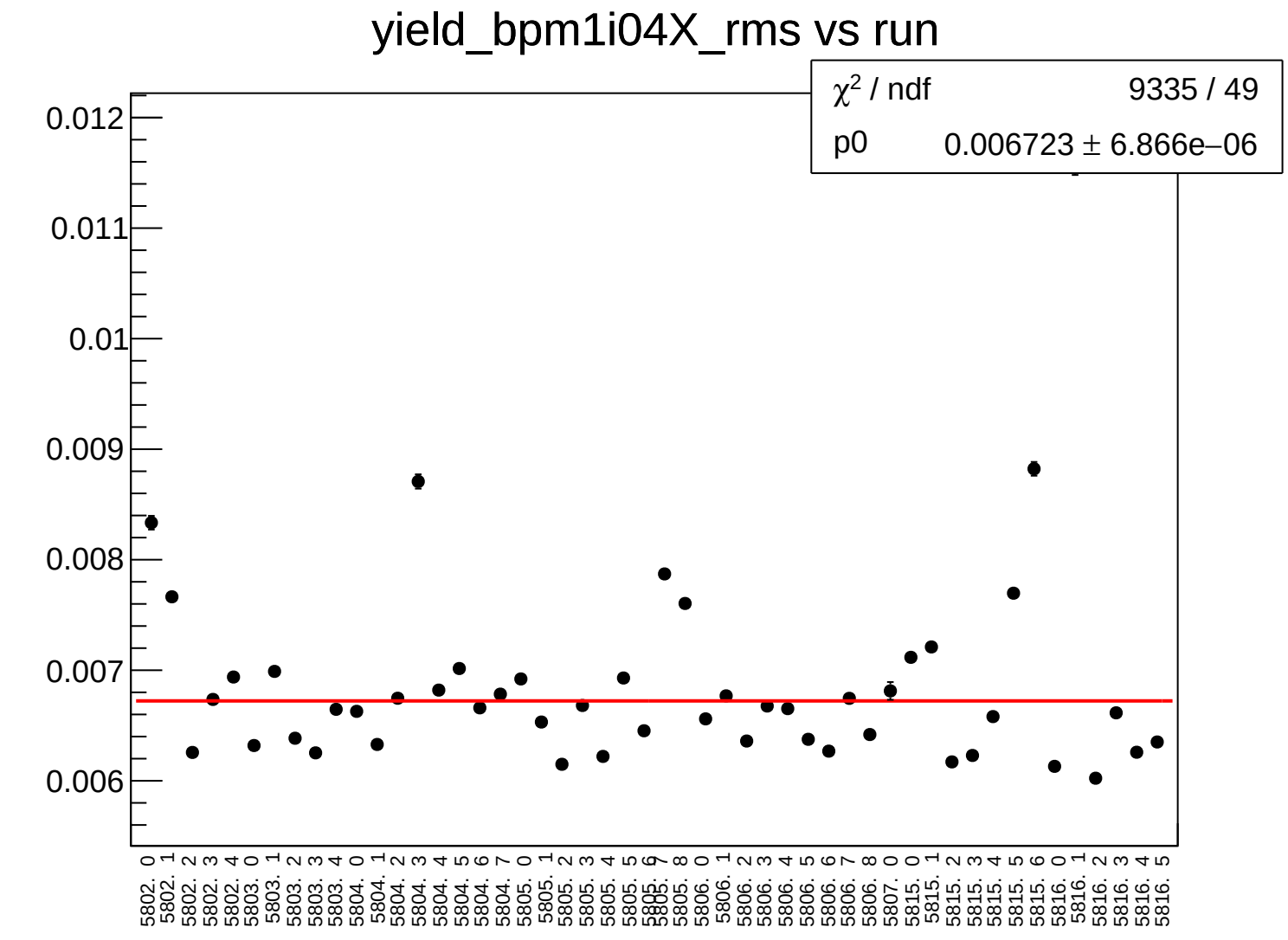

yield_bpm1i02Y_mean vs run
χ² / ndf 1.449e+08 / 49
p0 1.182 ± 1.141e−05
pull
Entries 50
Mean −427.9
Std Dev 455.1

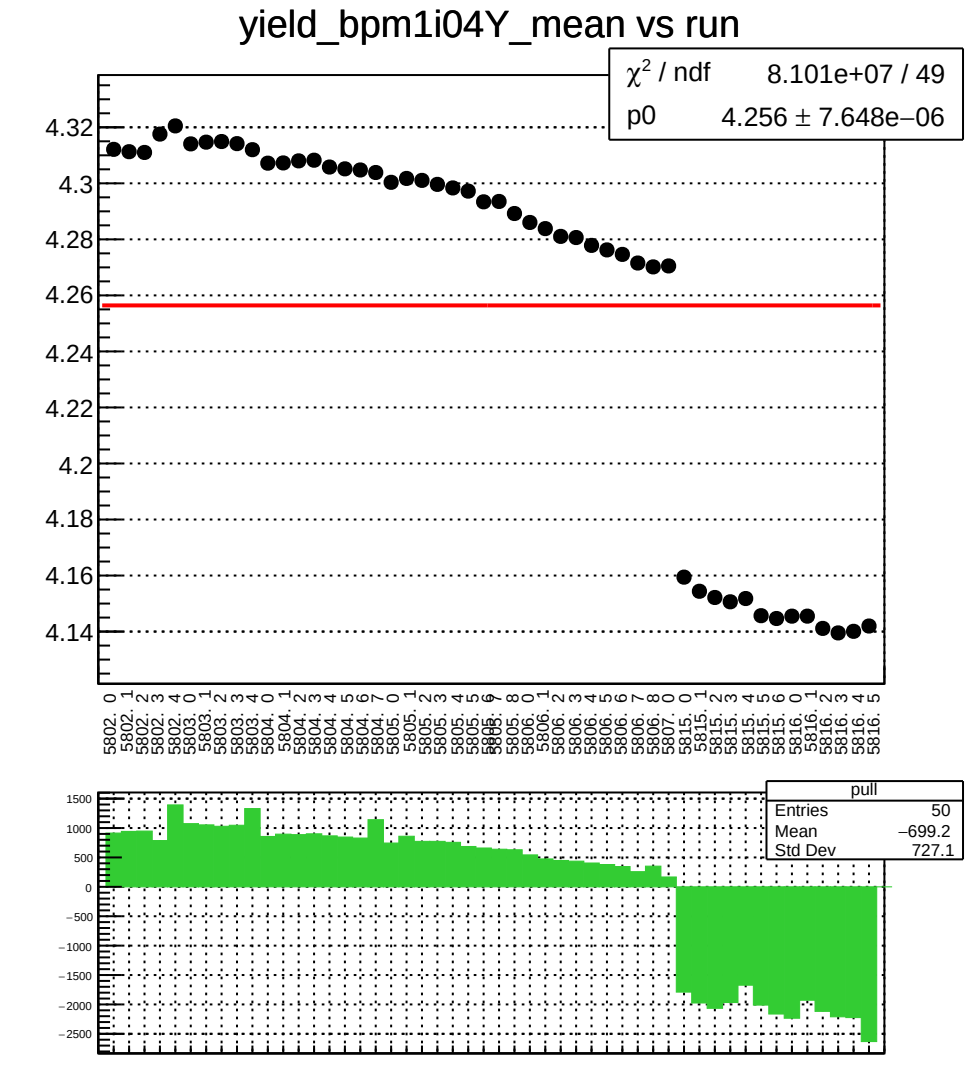

pull1D
Entries 50
Mean 0
Std Dev 0

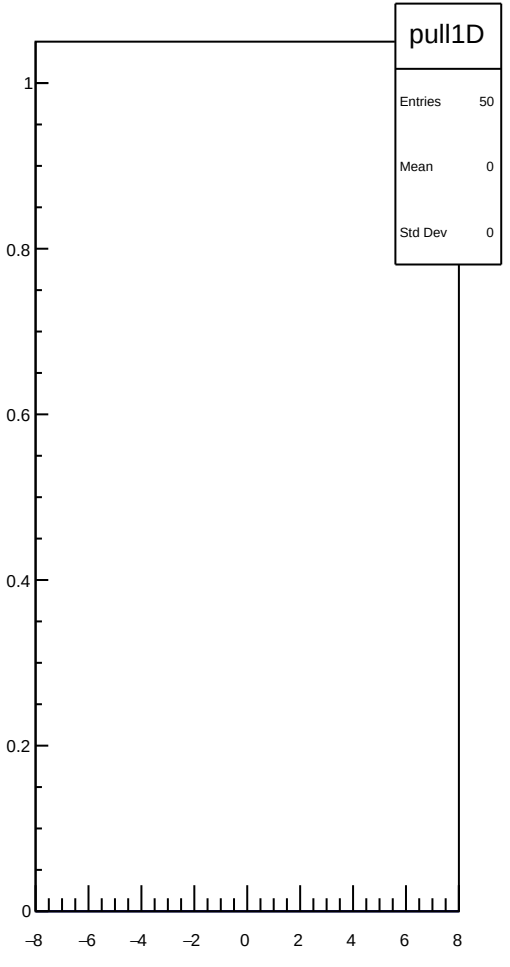

yield_bpm1i02Y_rms vs run
χ² / ndf 8578 / 49
p0 0.0079 ± 8.065e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

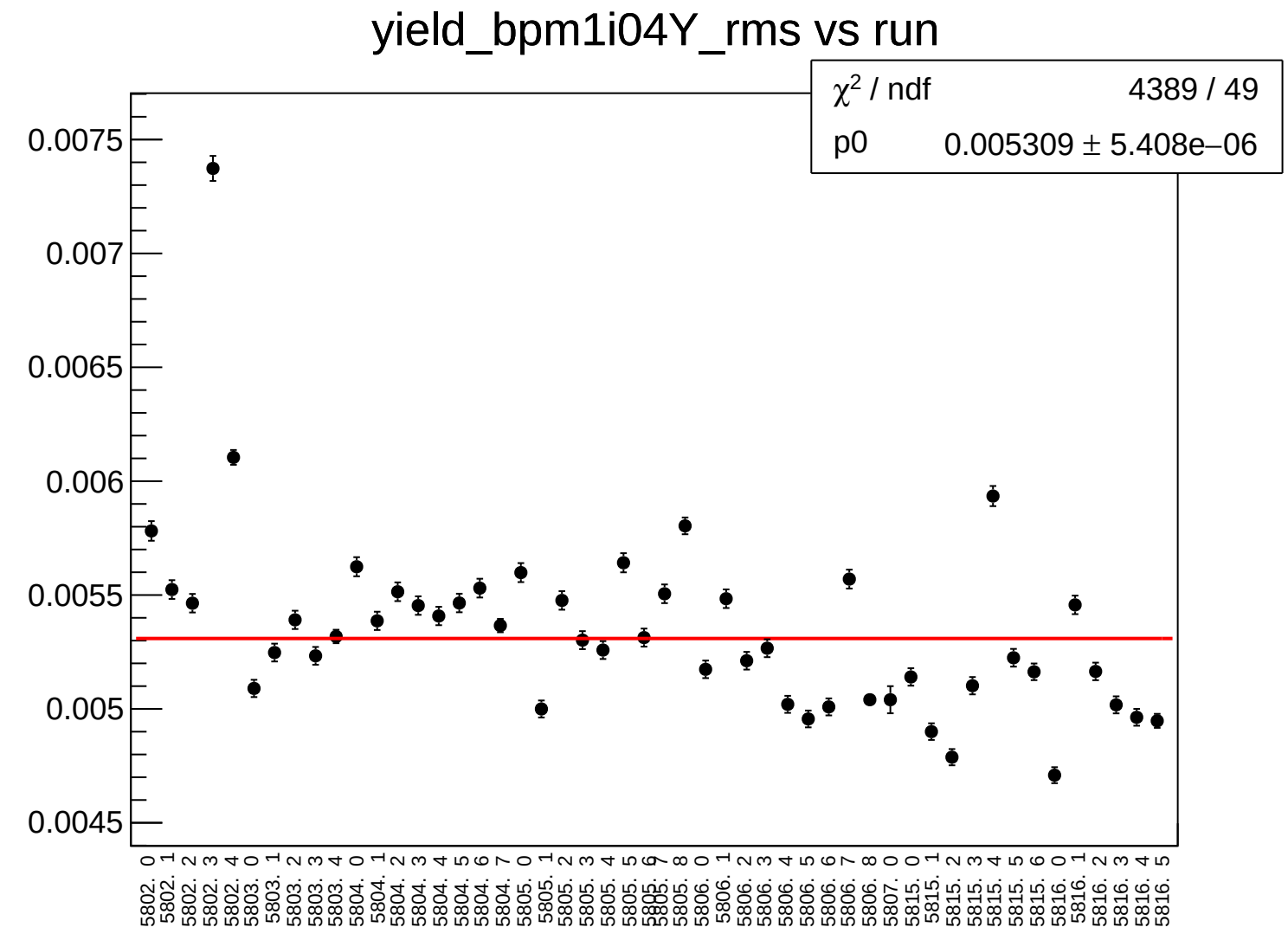

yield_bpm1i04X_mean vs run
χ² / ndf 5.134e+06 / 49
p0 1.241± 9.71e−06
1.28
1.27
1.26
1.25
1.24
1.23
1.22
1.21
pull
Entries 50
Mean 403.9
Std Dev 395.7
600
400
200
0
−200
−400
−600

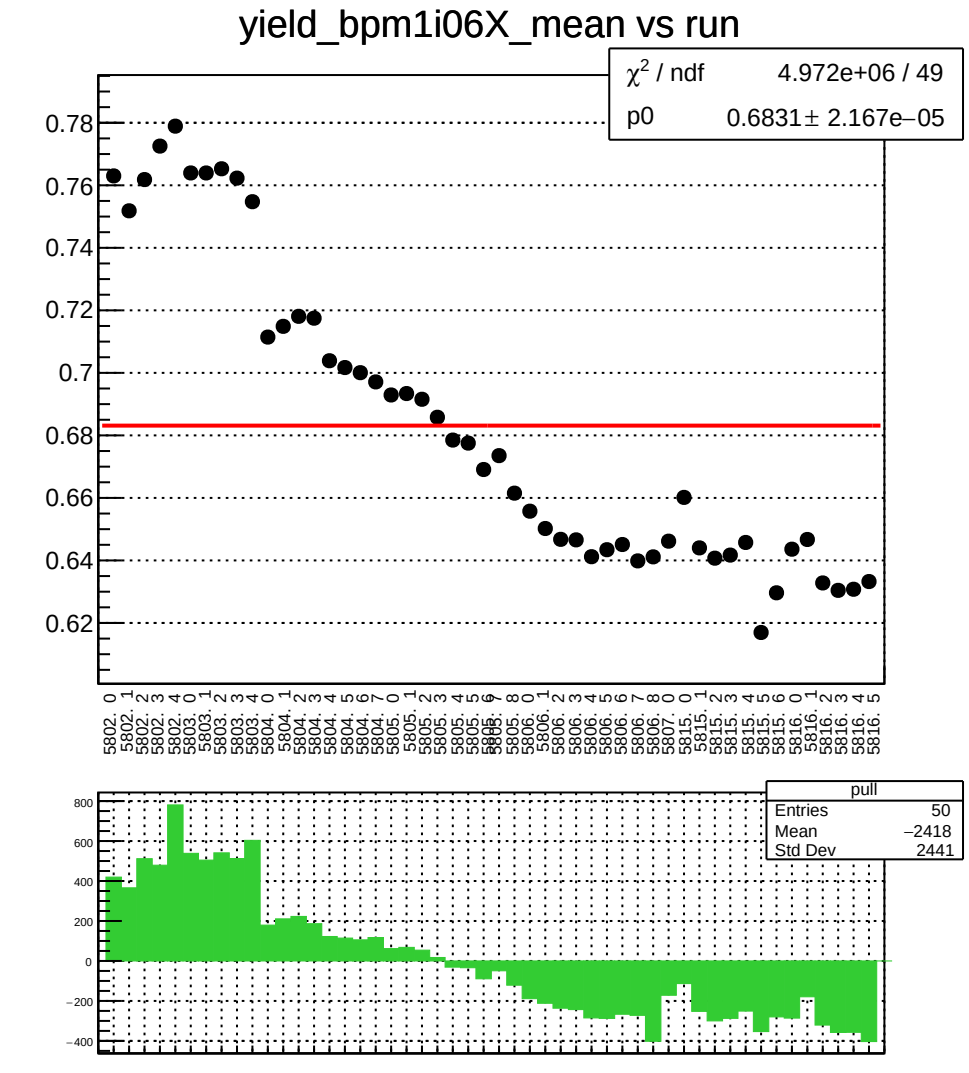

pull1D
Entries 50
Mean 4.714
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

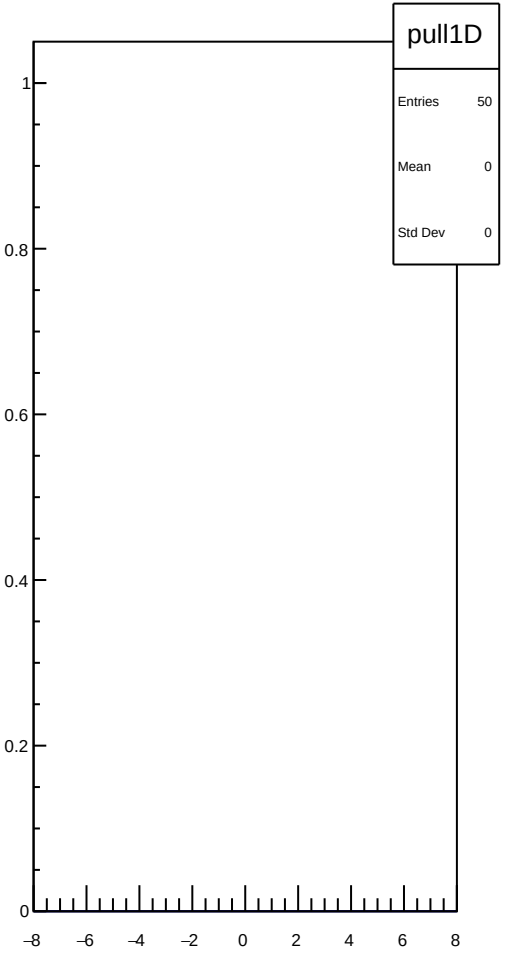

yield_bpm1i04X_rms vs run
χ² / ndf 9335 / 49
p0 0.006723 ± 6.866e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

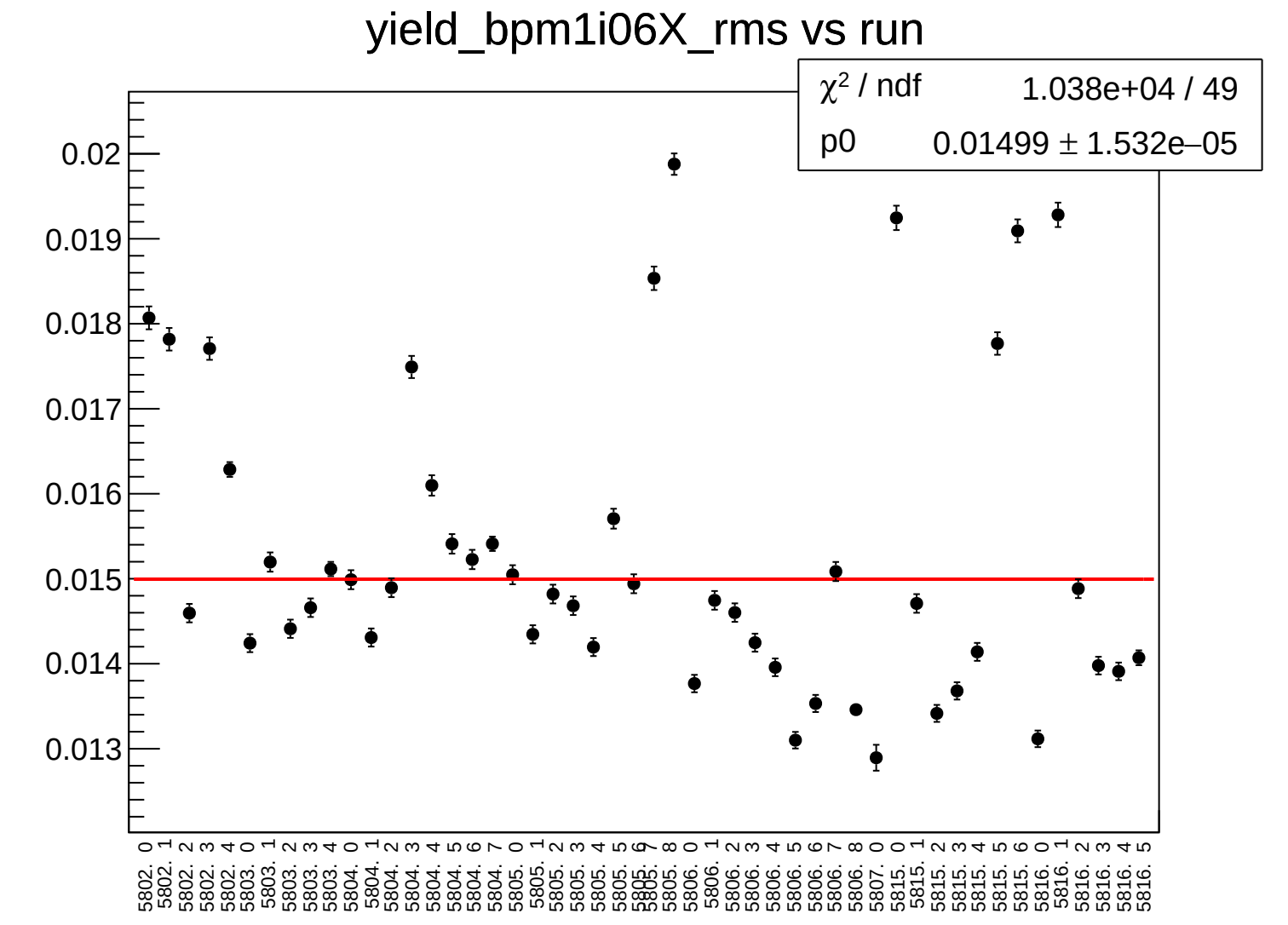

yield_bpm1i04Y_mean vs run
χ² / ndf 8.101e+07 / 49
p0 4.256 ± 7.648e−06
4.32
4.3
4.28
4.26
4.24
4.22
4.2
4.18
4.16
4.14
pull
Entries 50
Mean −699.2
Std Dev 727.1
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

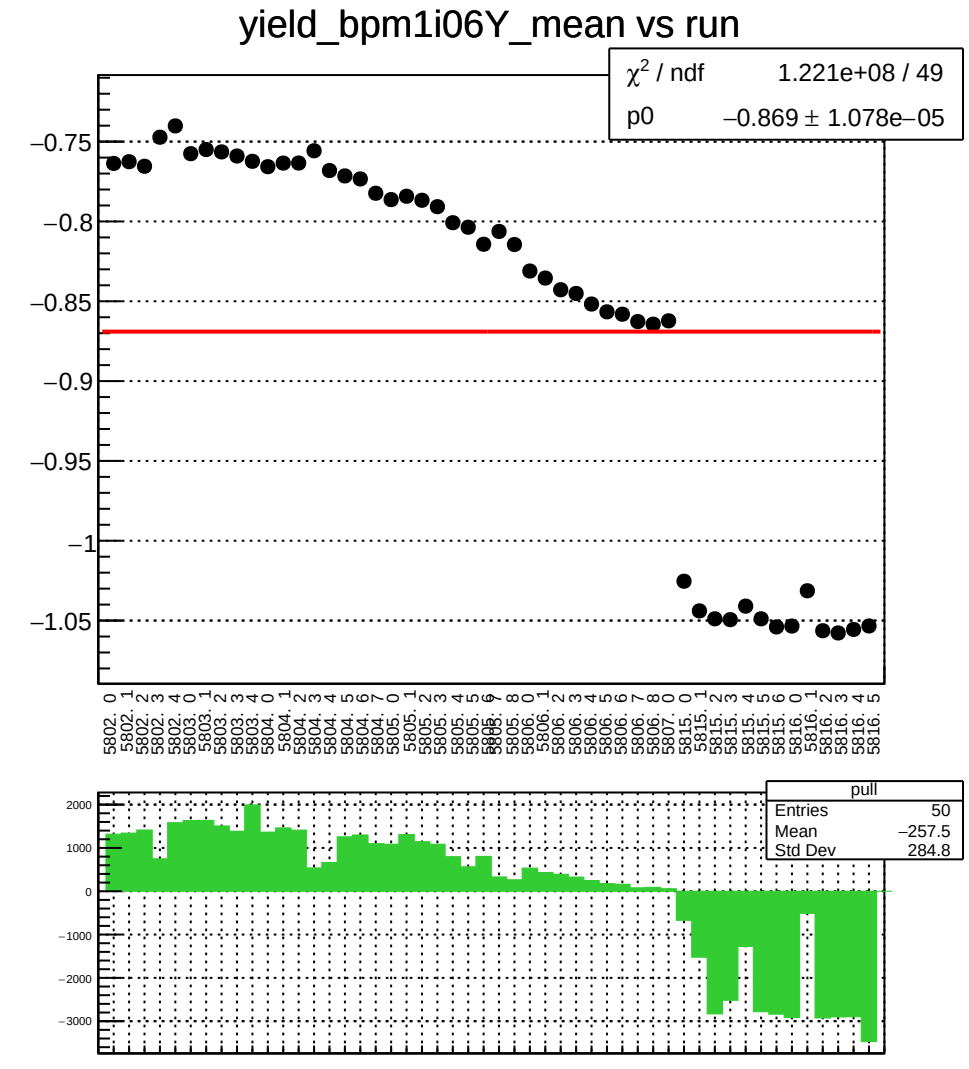

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

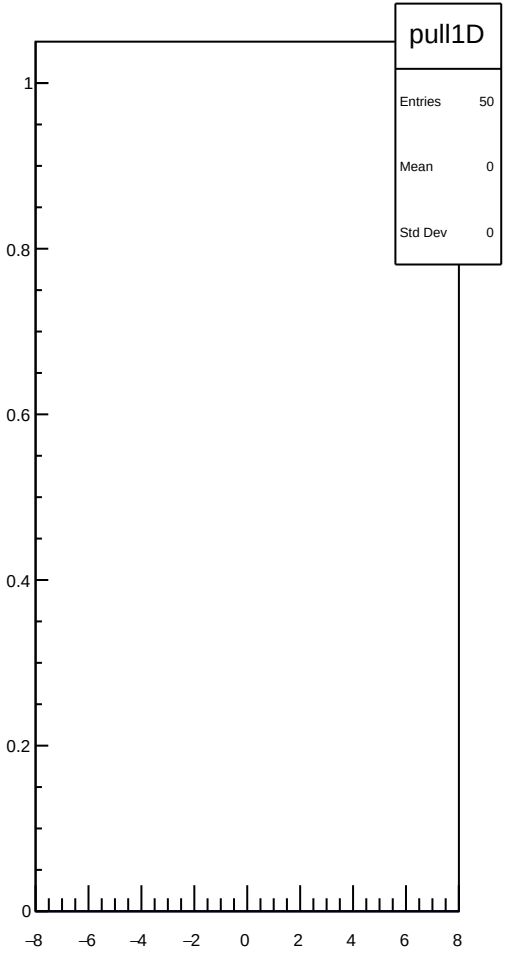

yield_bpm1i04Y_rms vs run
χ² / ndf 4389 / 49
p0 0.005309 ± 5.408e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

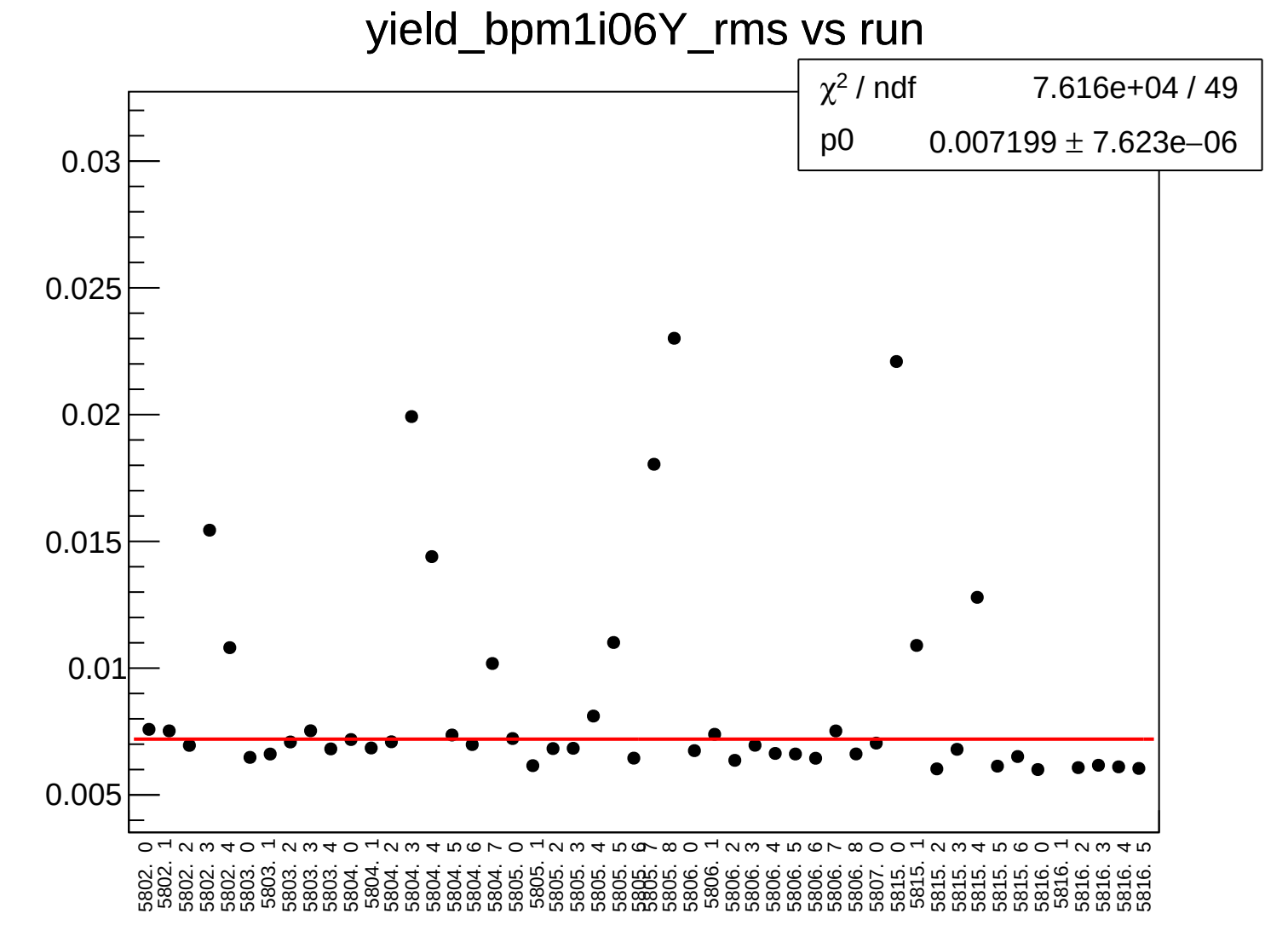

yield_bpm1i06X_mean vs run
χ² / ndf 4.972e+06 / 49
p0 0.6831± 2.167e−05
pull
Entries 50
Mean −2418
Std Dev 2441

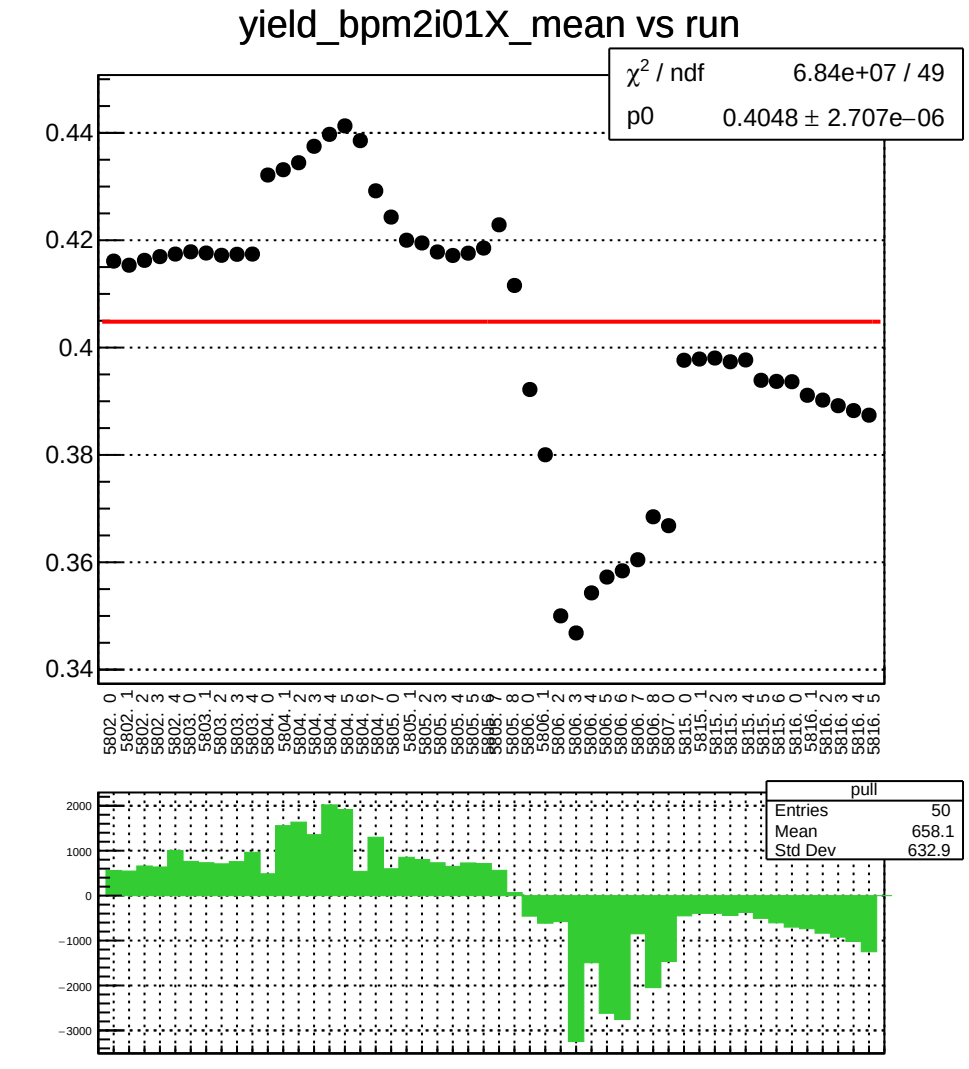

pull1D
Entries 50
Mean 0
Std Dev 0

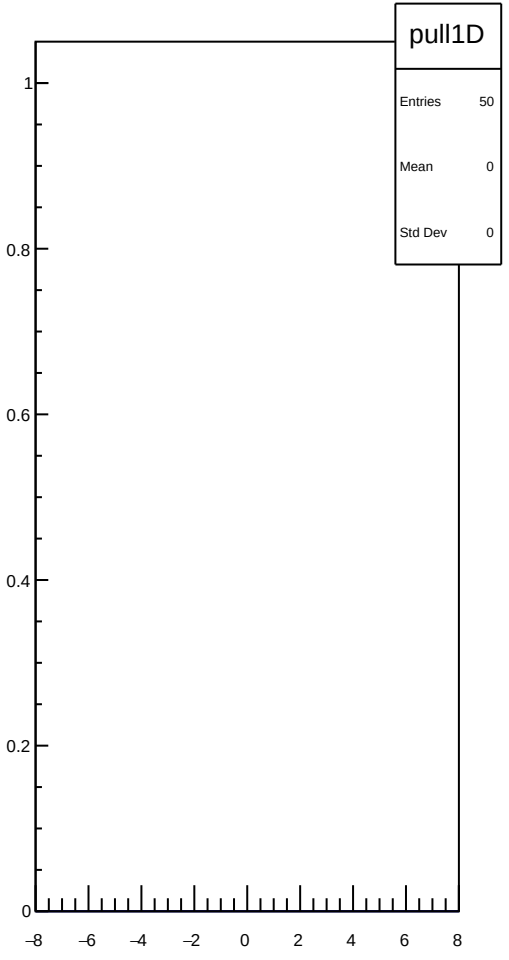

yield_bpm1i06X_rms vs run
χ² / ndf 1.038e+04 / 49
p0 0.01499 ± 1.532e–05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

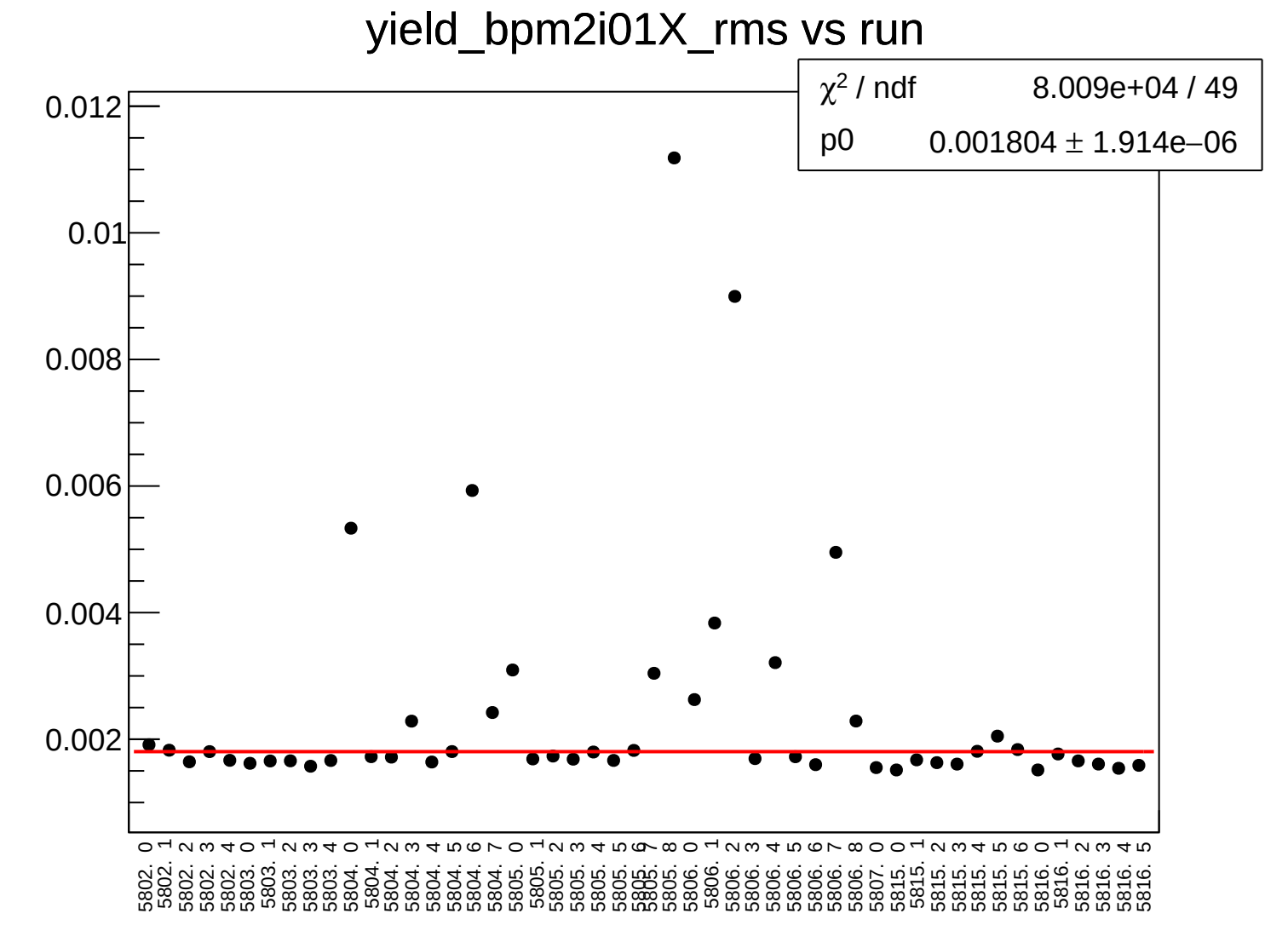

yield_bpm1i06Y_mean vs run
χ² / ndf 1.221e+08 / 49
p0 −0.869 ± 1.078e−05
−0.75
−0.8
−0.85
−0.9
−0.95
−1
−1.05
pull
Entries 50
Mean −257.5
Std Dev 284.8
2000
1000
0
−1000
−2000
−3000

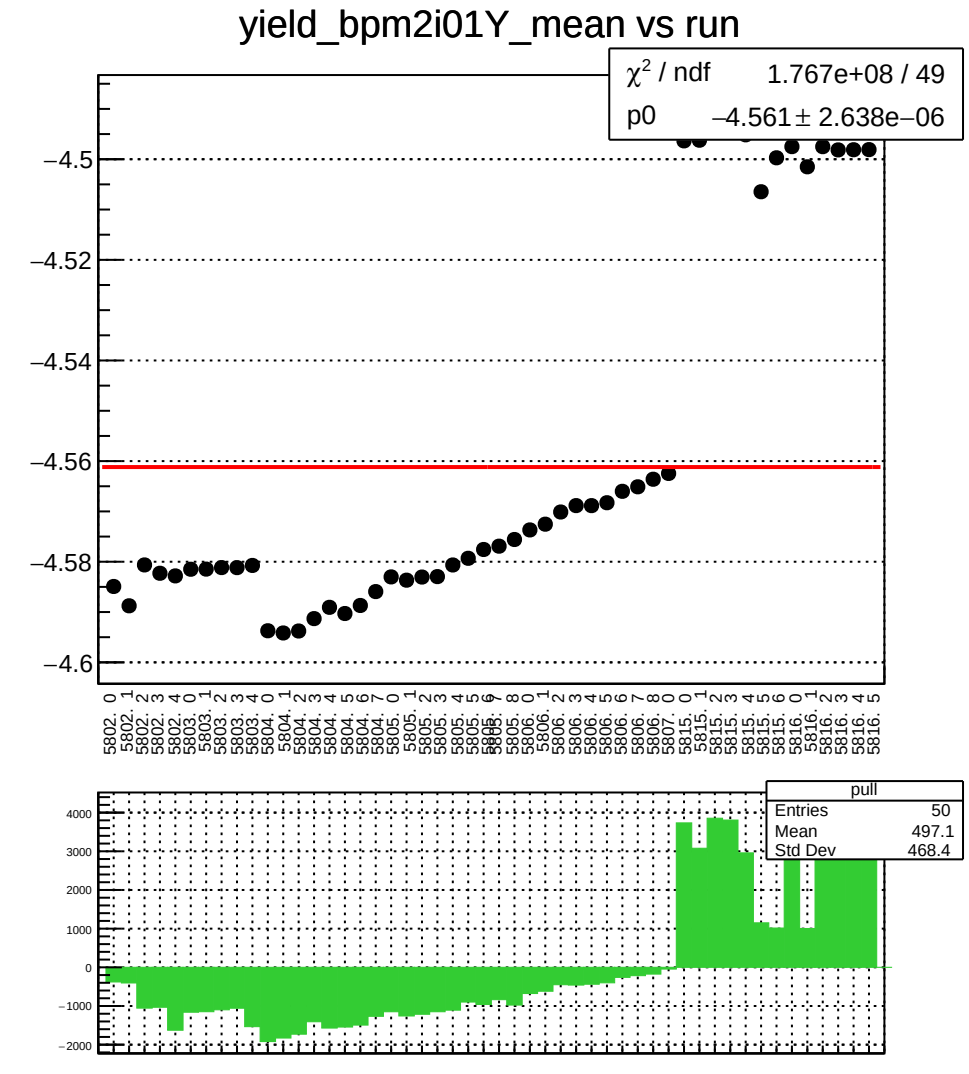

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

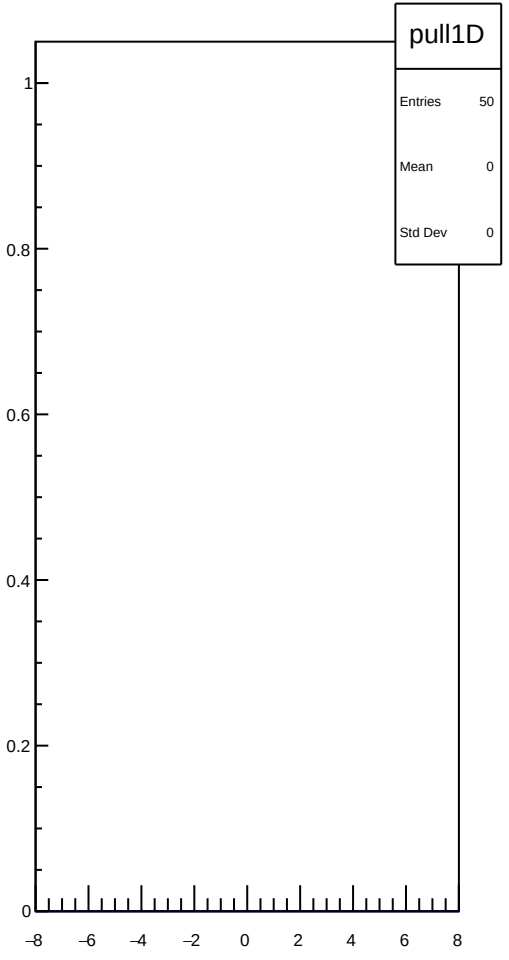

yield_bpm1i06Y_rms vs run
χ² / ndf 7.616e+04 / 49
p0 0.007199 ± 7.623e−06
0.03
0.025
0.02
0.015
0.01
0.005
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

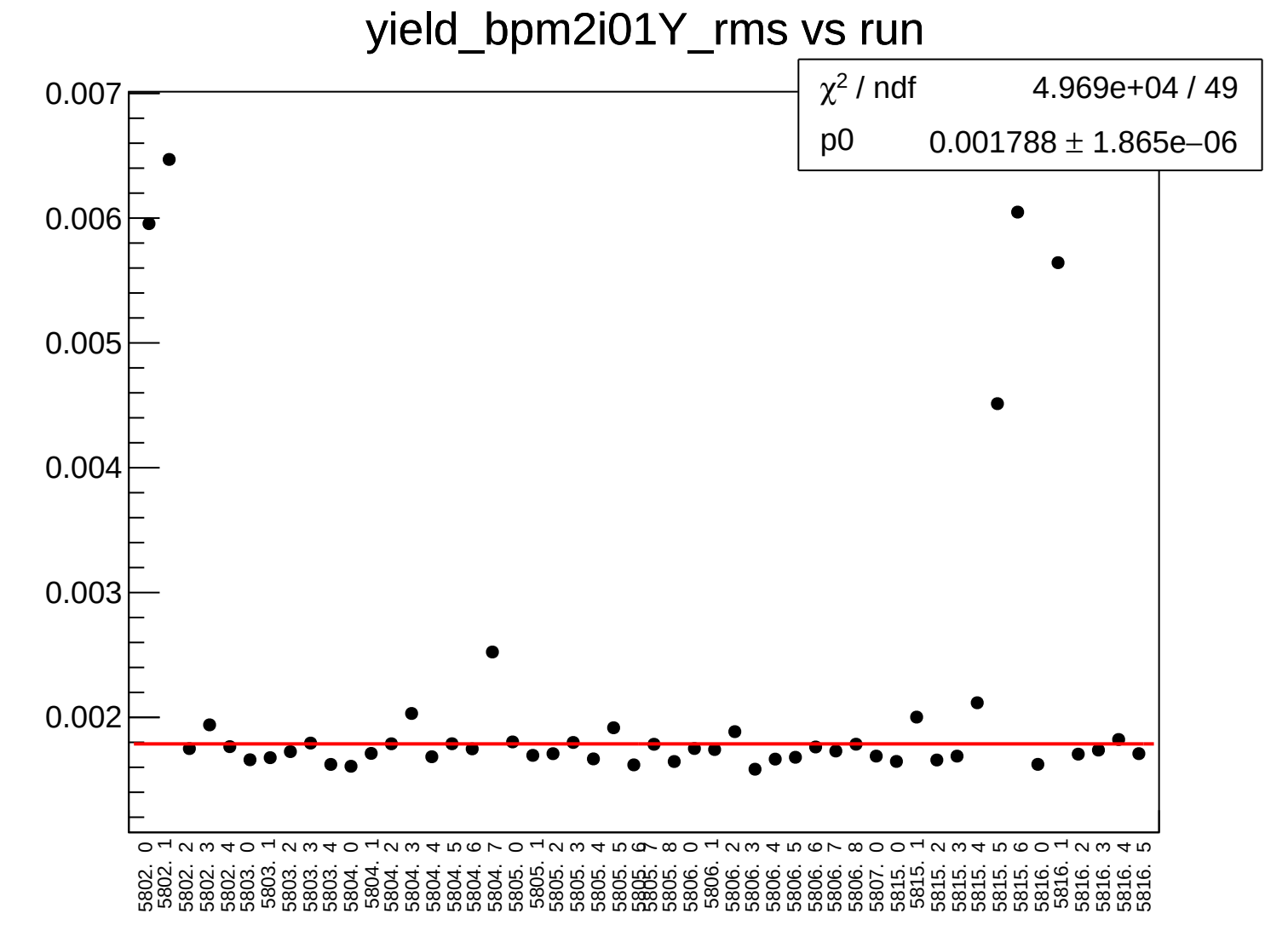

yield_bpm2i01X_mean vs run
χ² / ndf 6.84e+07 / 49
p0 0.4048 ± 2.707e−06
0.44
0.42
0.4
0.38
0.36
0.34
pull
Entries 50
Mean 658.1
Std Dev 632.9
2000
1000
0
−1000
−2000
−3000

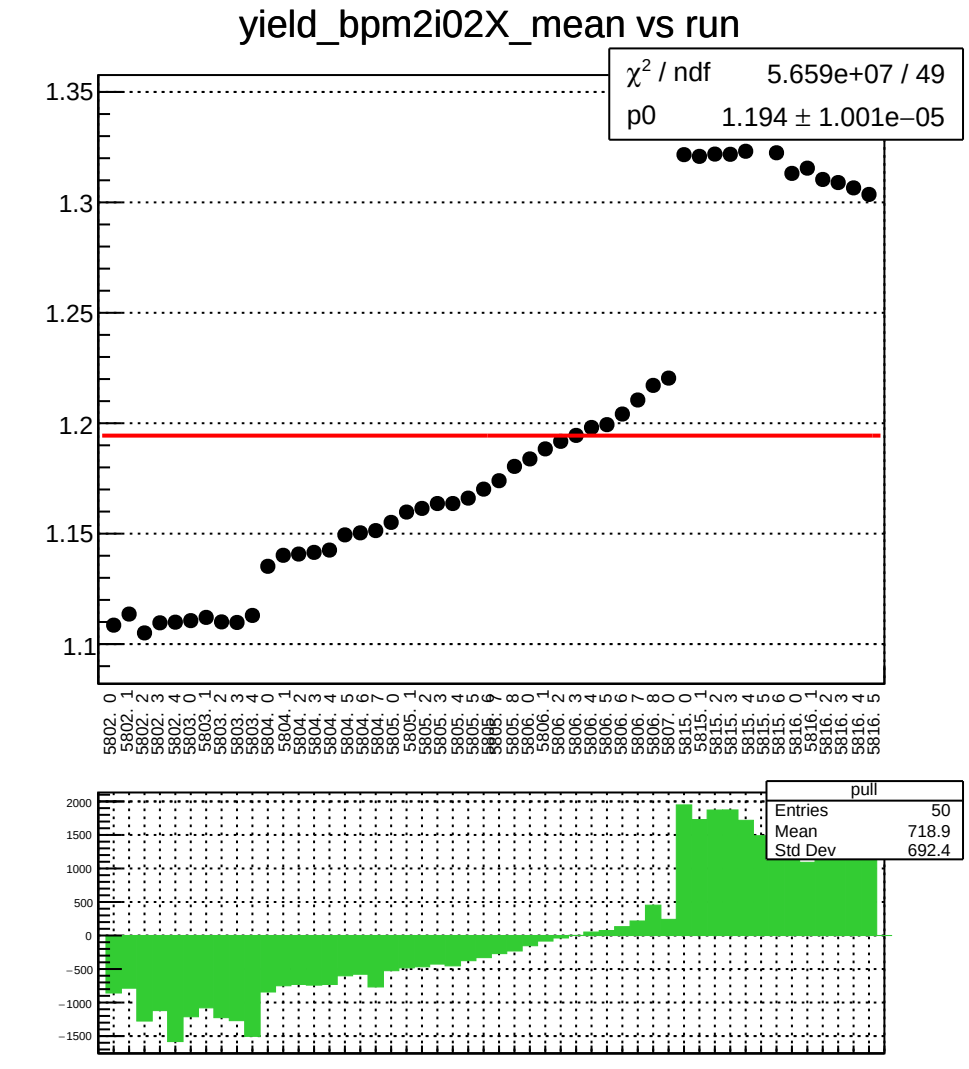

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

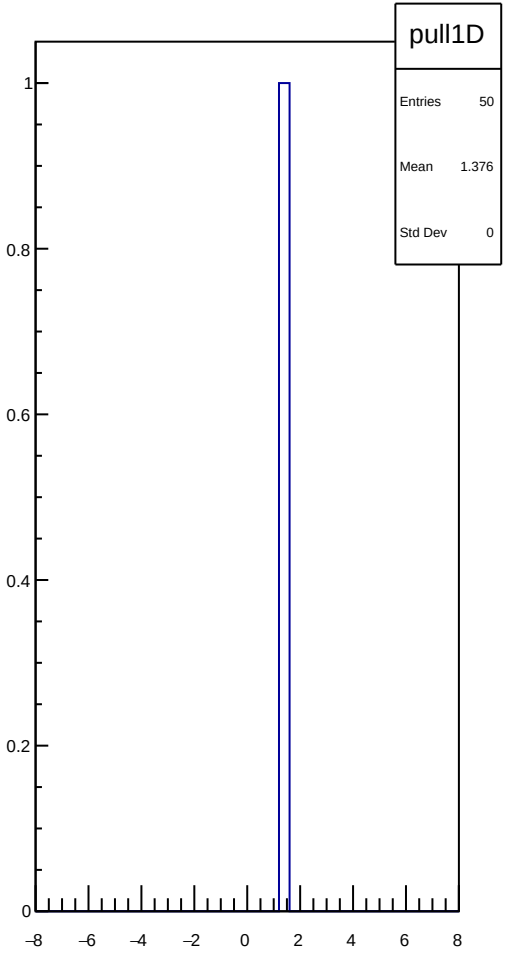

yield_bpm2i01X_rms vs run
χ² / ndf 8.009e+04 / 49
p0 0.001804 ± 1.914e−06
0.012
0.01
0.008
0.006
0.004
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

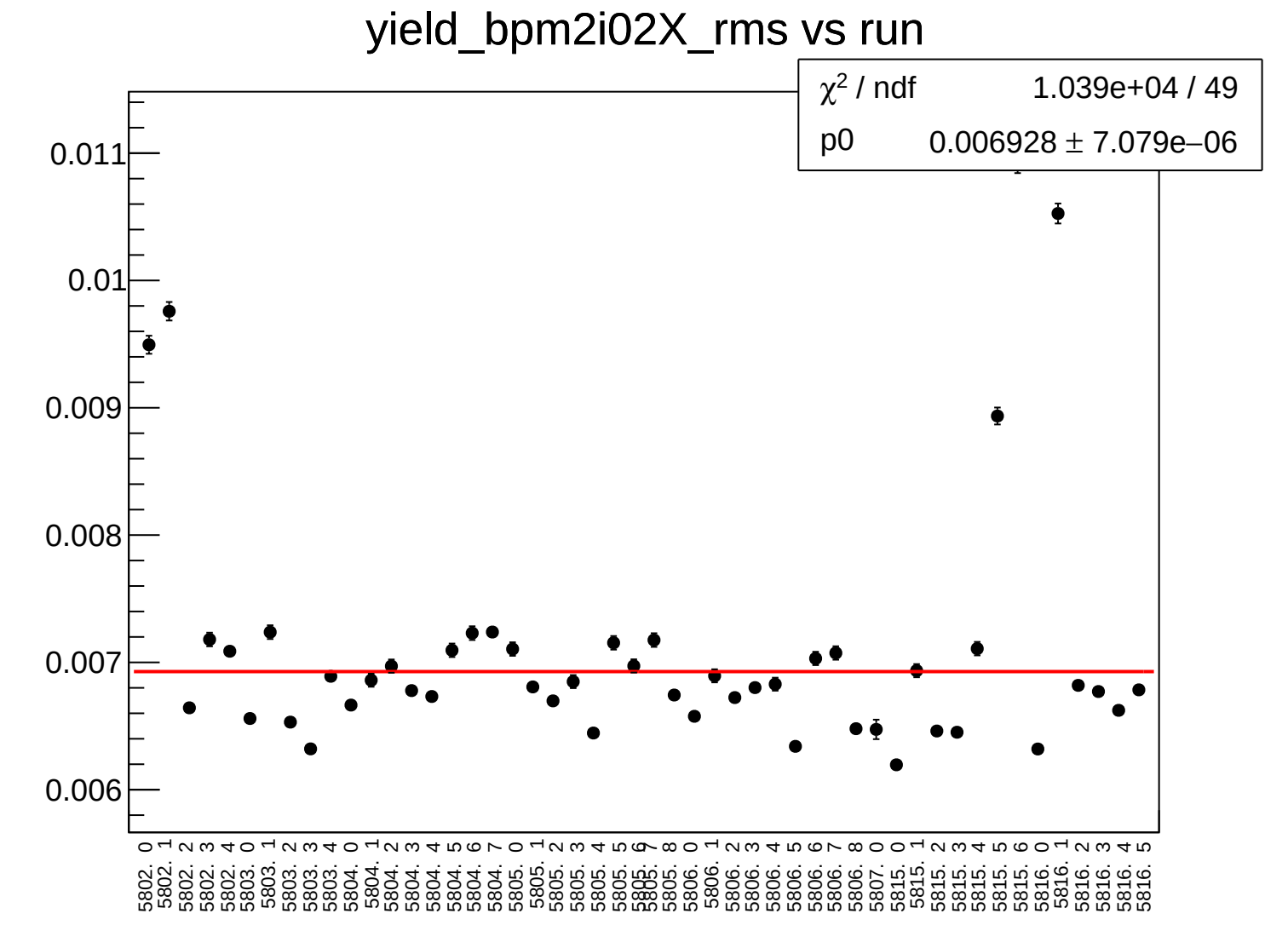

yield_bpm2i01Y_mean vs run
χ² / ndf 1.767e+08 / 49
p0 −4.561 ± 2.638e−06
−4.5
−4.52
−4.54
−4.56
−4.58
−4.6
pull
Entries 50
Mean 497.1
Std Dev 468.4
4000
3000
2000
1000
0
−1000
−2000

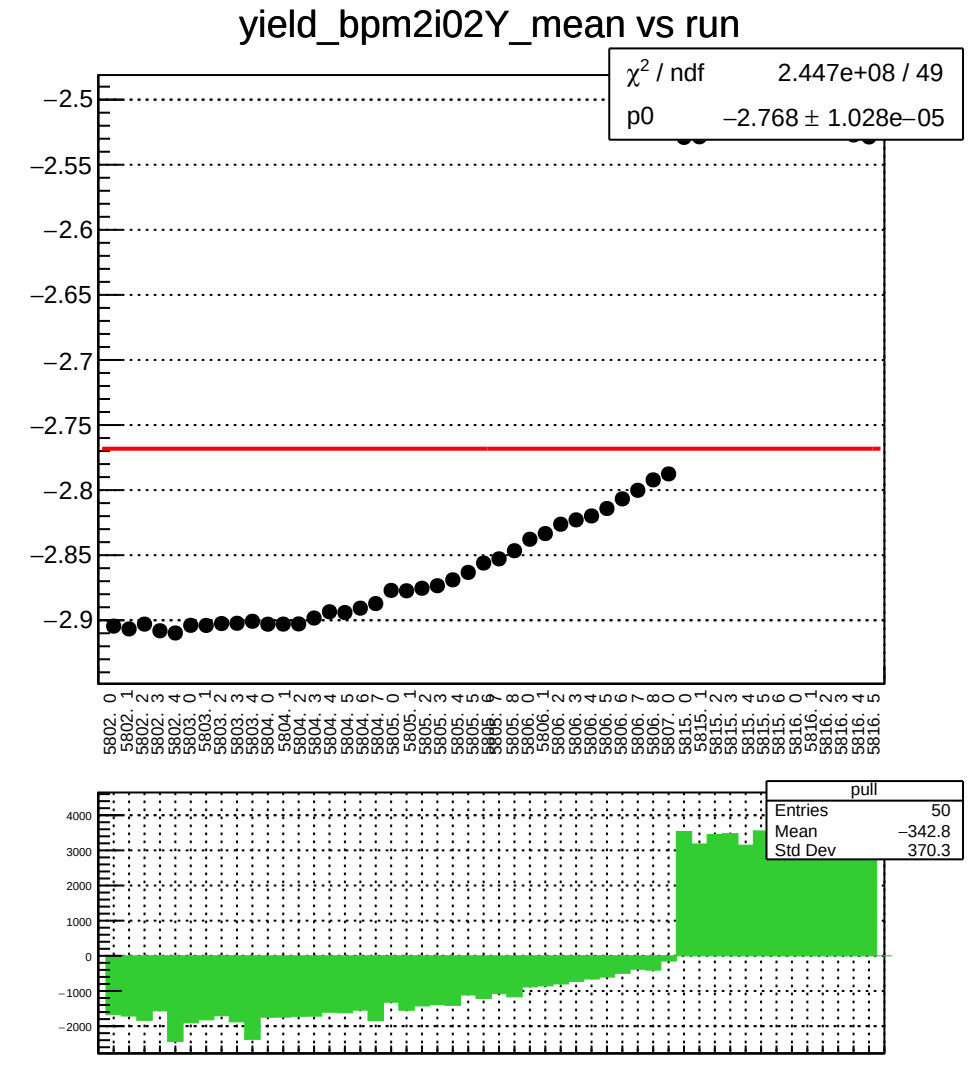

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

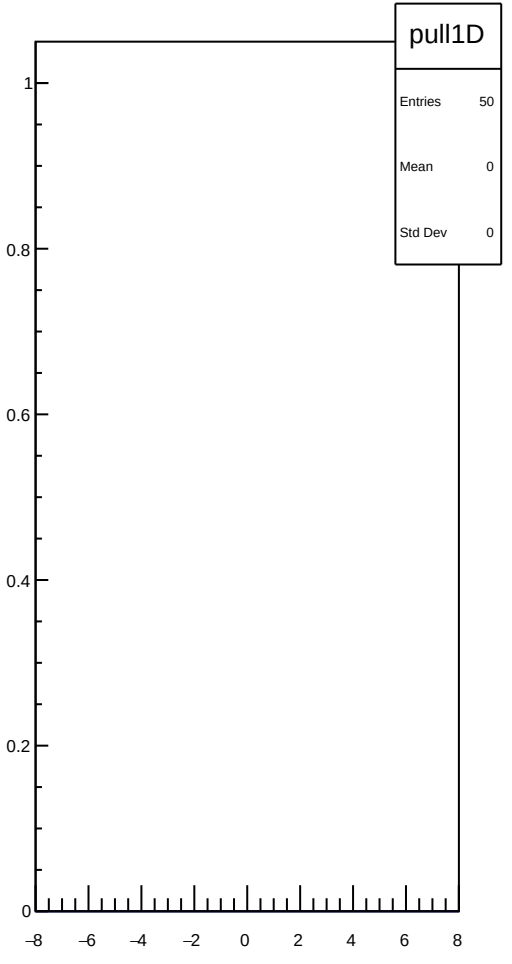

yield_bpm2i01Y_rms vs run
χ² / ndf 4.969e+04 / 49
p0 0.001788 ± 1.865e−06
0.007
0.006
0.005
0.004
0.003
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

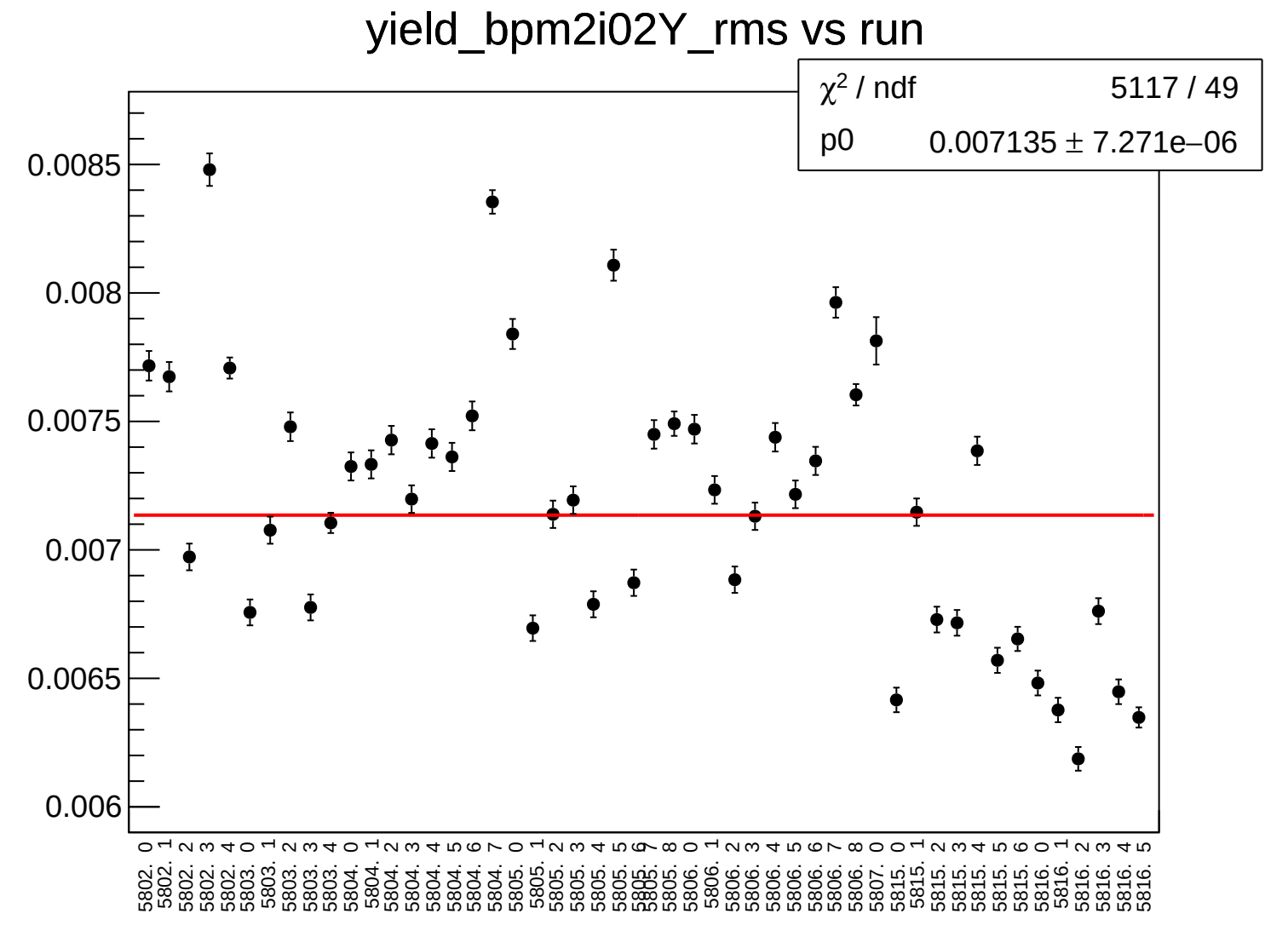

yield_bpm2i02X_mean vs run
χ² / ndf 5.659e+07 / 49
p0 1.194 ± 1.001e−05
1.35
1.3
1.25
1.2
1.15
1.1
pull
Entries 50
Mean 718.9
Std Dev 692.4
2000
1500
1000
500
0
−500
−1000
−1500

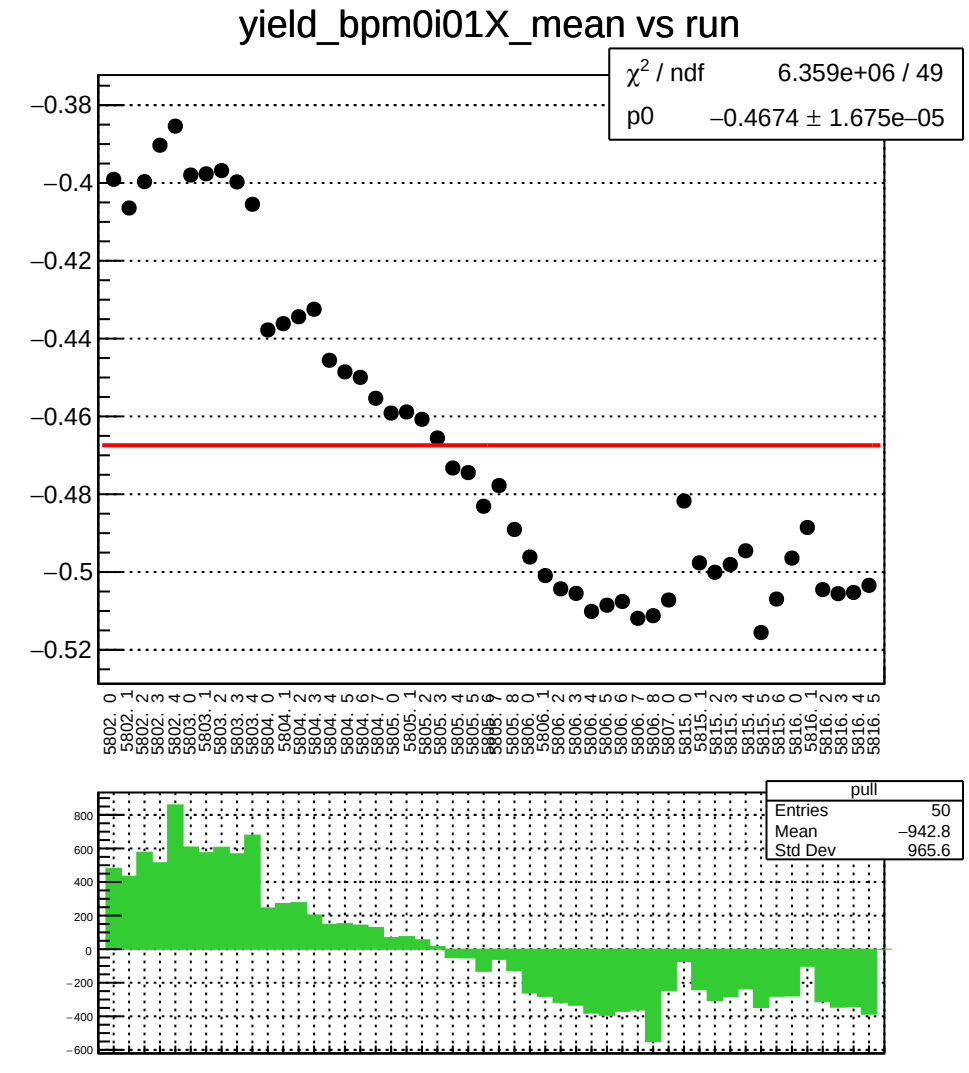

pull1D
Entries 50
Mean 1.376
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

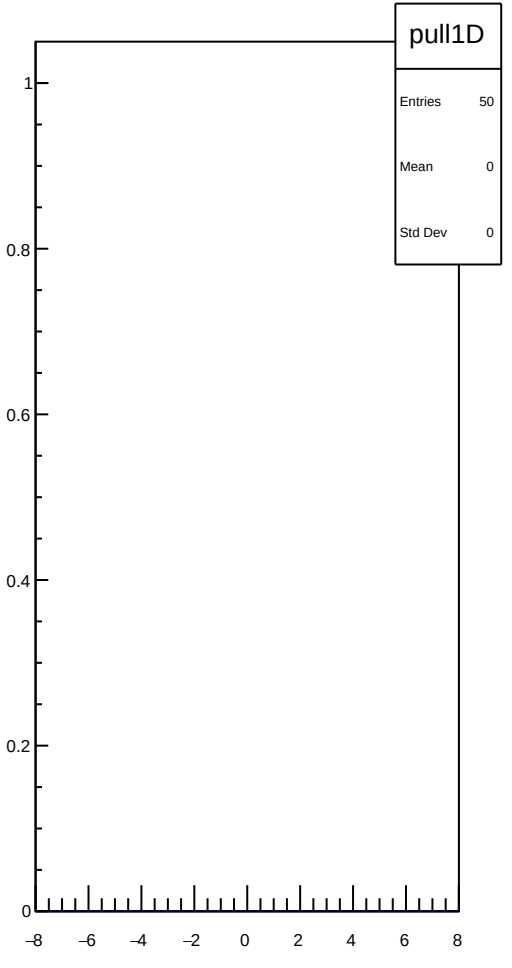

yield_bpm2i02X_rms vs run
χ² / ndf 1.039e+04 / 49
p0 0.006928 ± 7.079e−06
0.011
0.01
0.009
0.008
0.007
0.006
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

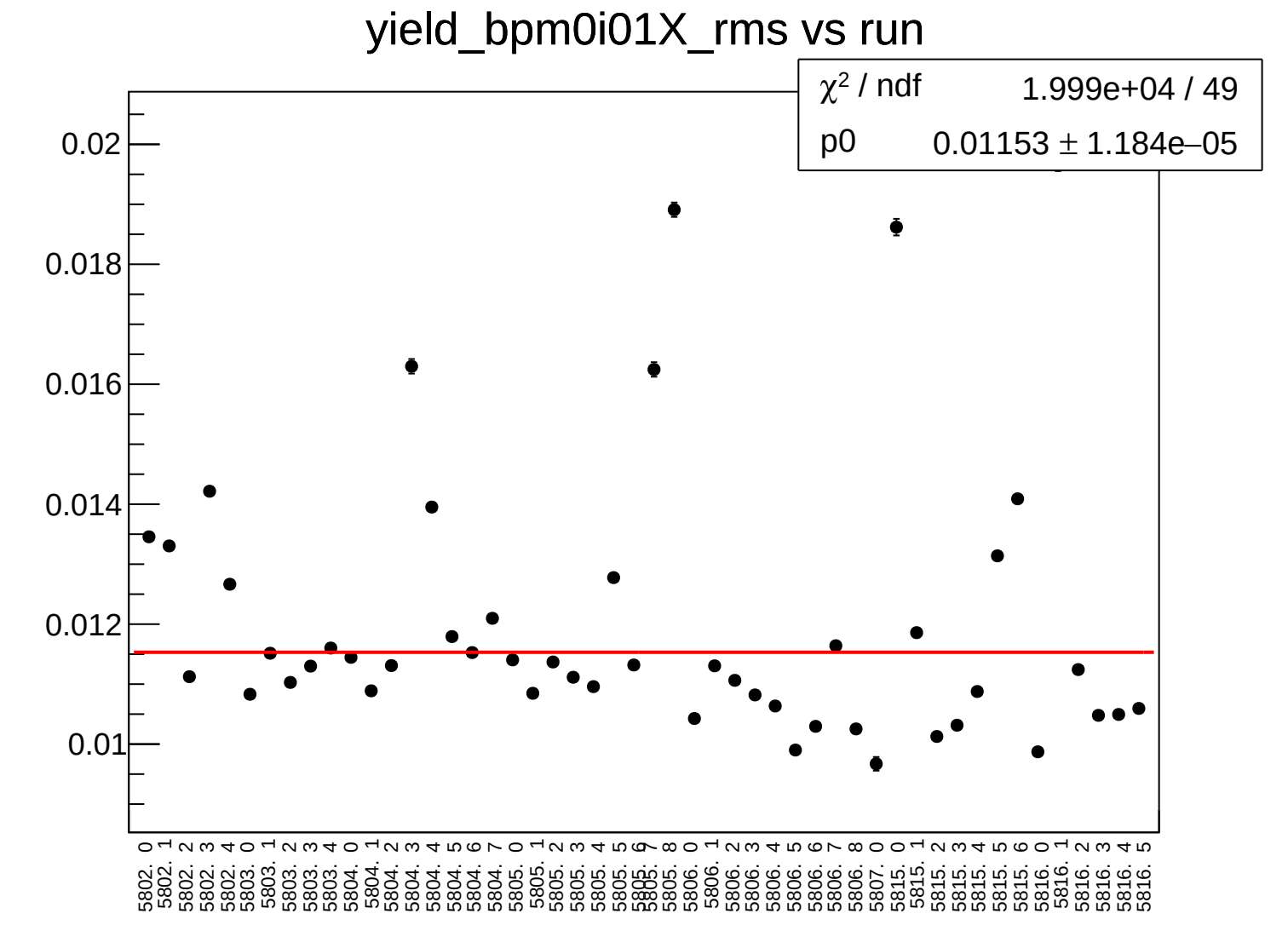

yield_bpm2i02Y_mean vs run
χ² / ndf 2.447e+08 / 49
p0 −2.768 ± 1.028e−05
−2.5
−2.55
−2.6
−2.65
−2.7
−2.75
−2.8
−2.85
−2.9
pull
Entries 50
Mean −342.8
Std Dev 370.3
4000
3000
2000
1000
0
−1000
−2000

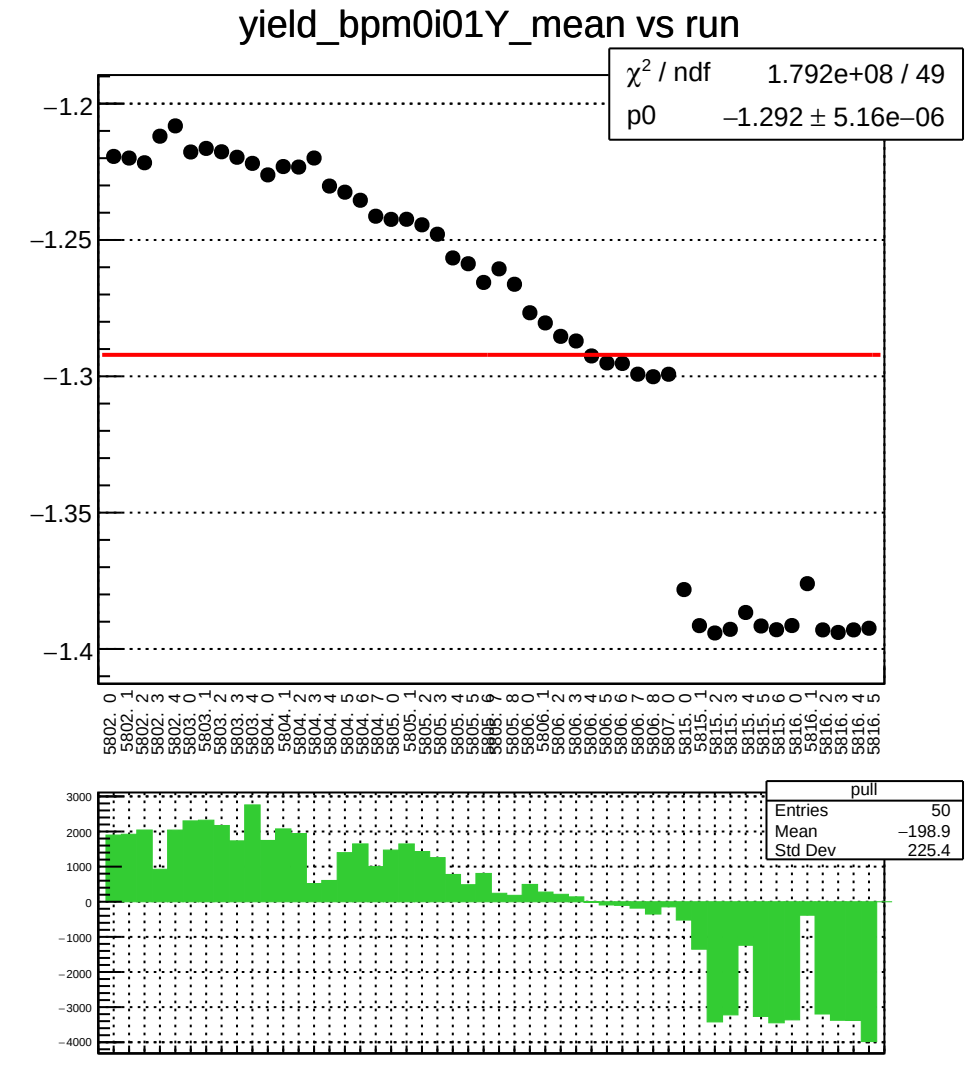

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

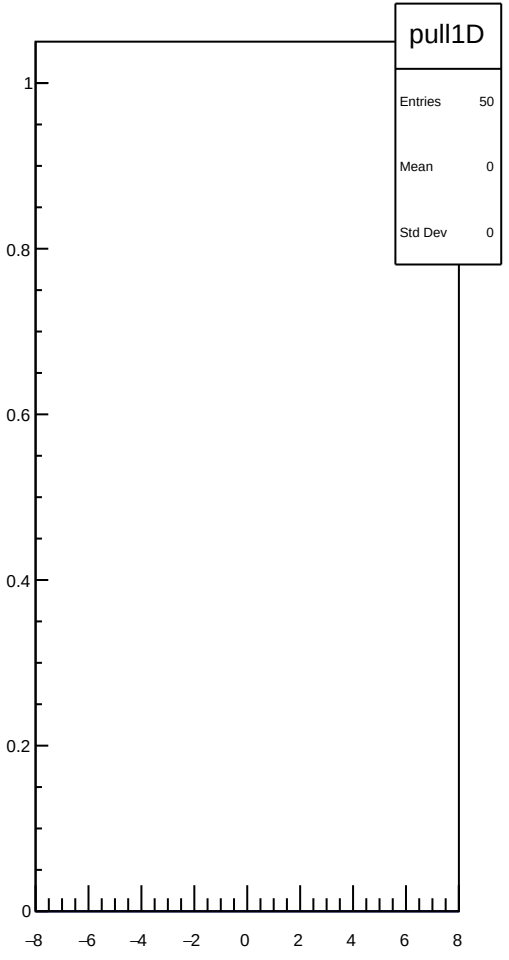

yield_bpm2i02Y_rms vs run
χ² / ndf 5117 / 49
p0 0.007135 ± 7.271e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5


yield_bpm0i01X_mean vs run
χ² / ndf 6.359e+06 / 49
p0 −0.4674 ± 1.675e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 50
Mean −942.8
Std Dev 965.6
800
600
400
200
0
−200
−400
−600

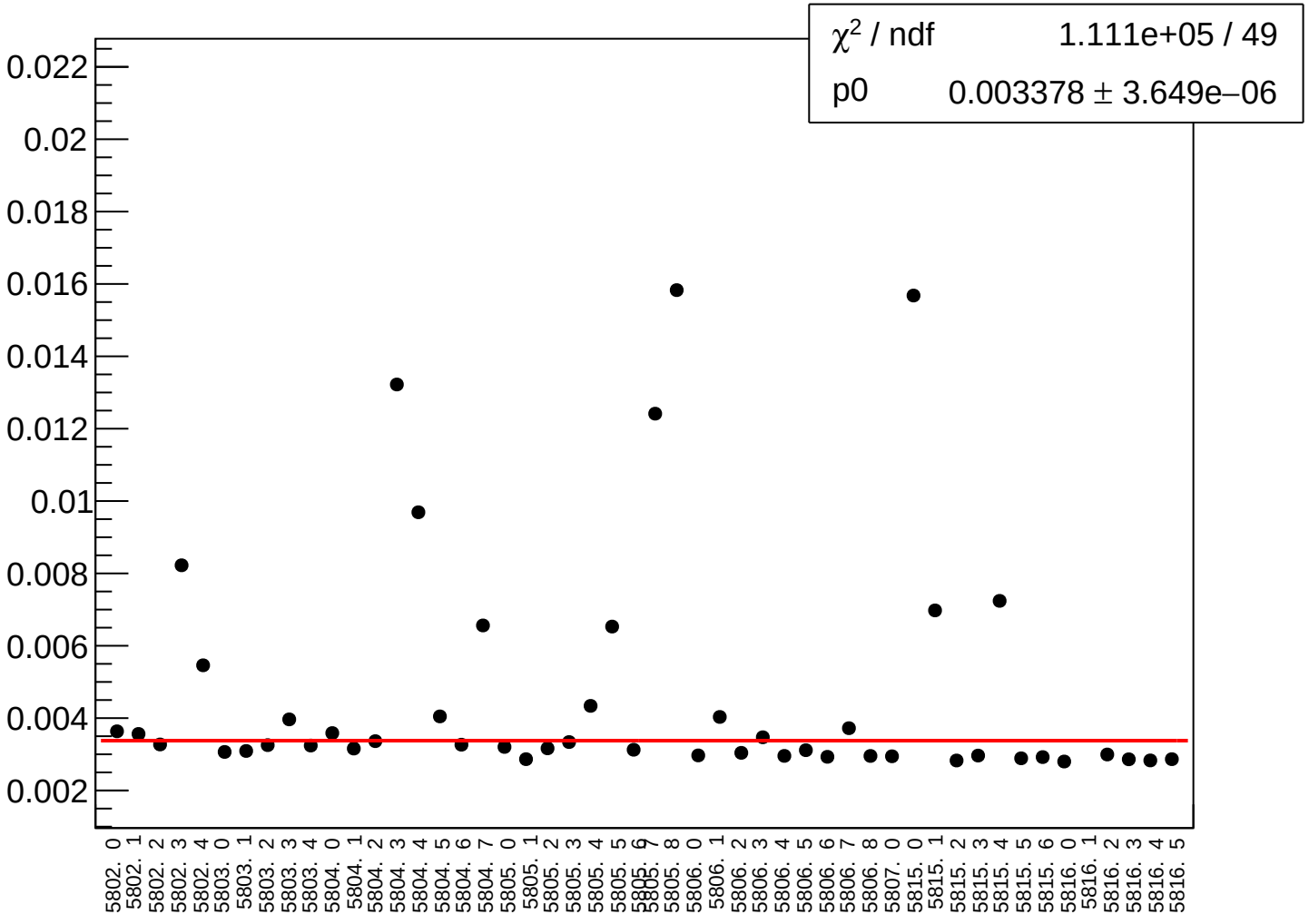

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

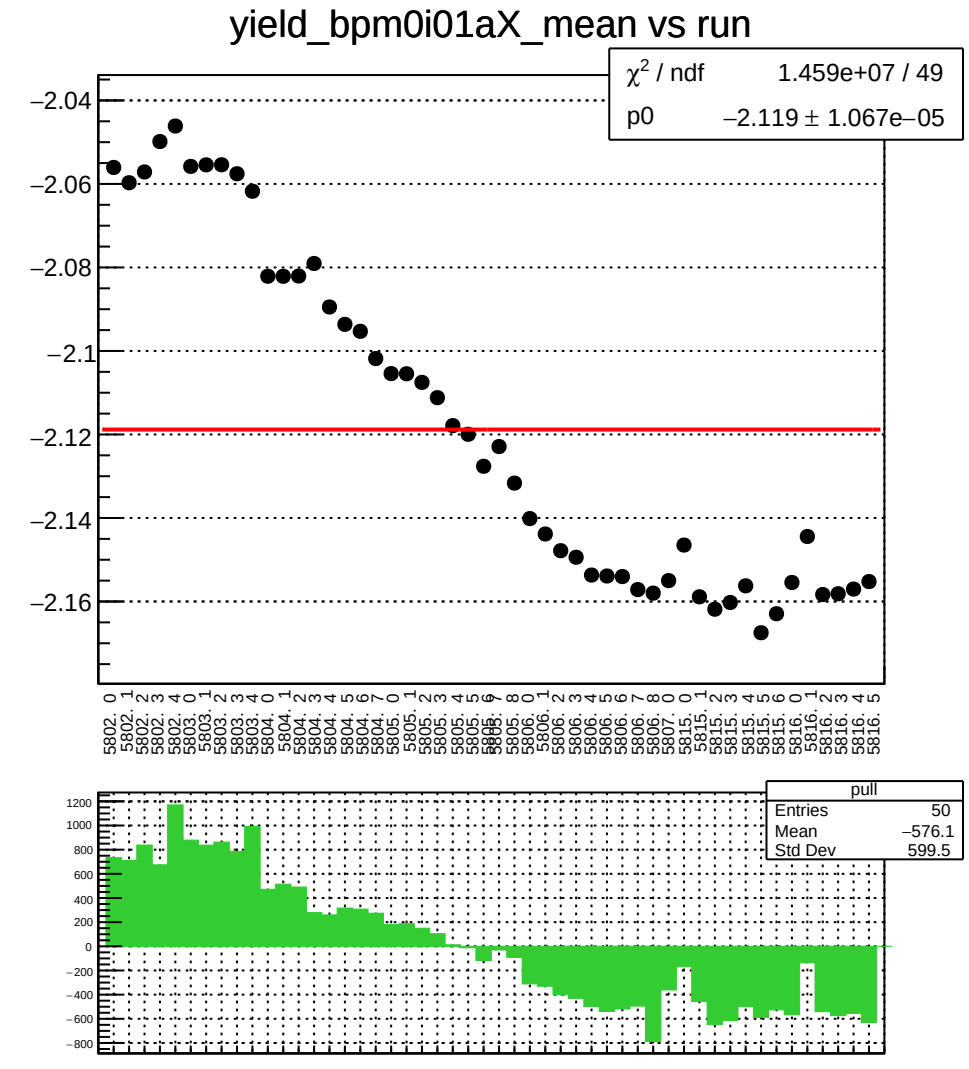

yield_bpm0i01X_rms vs run
χ² / ndf 1.999e+04 / 49
p0 0.01153 ± 1.184e–05
0.02
0.018
0.016
0.014
0.012
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

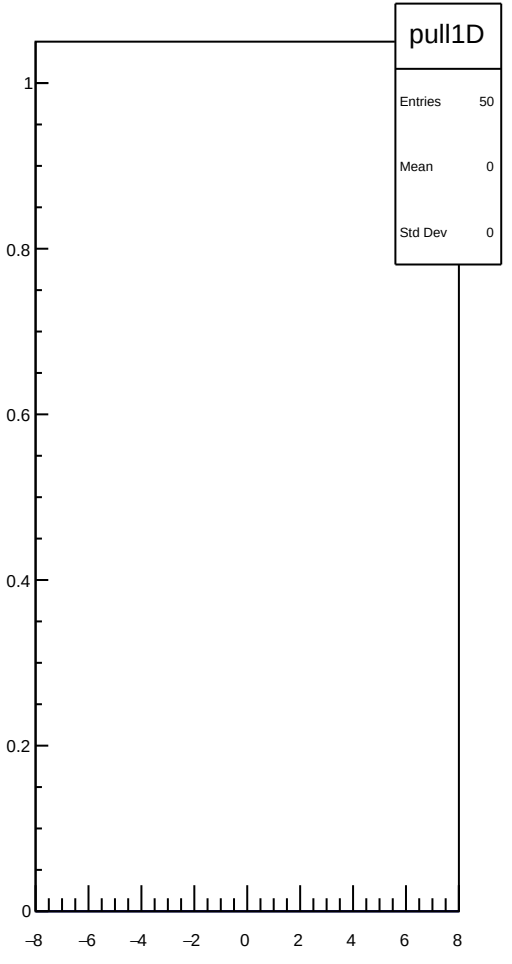

yield_bpm0i01Y_mean vs run
χ² / ndf 1.792e+08 / 49
p0 −1.292 ± 5.16e−06
−1.2
−1.25
−1.3
−1.35
−1.4
pull
Entries 50
Mean −198.9
Std Dev 225.4
3000
2000
1000
0
−1000
−2000
−3000
−4000

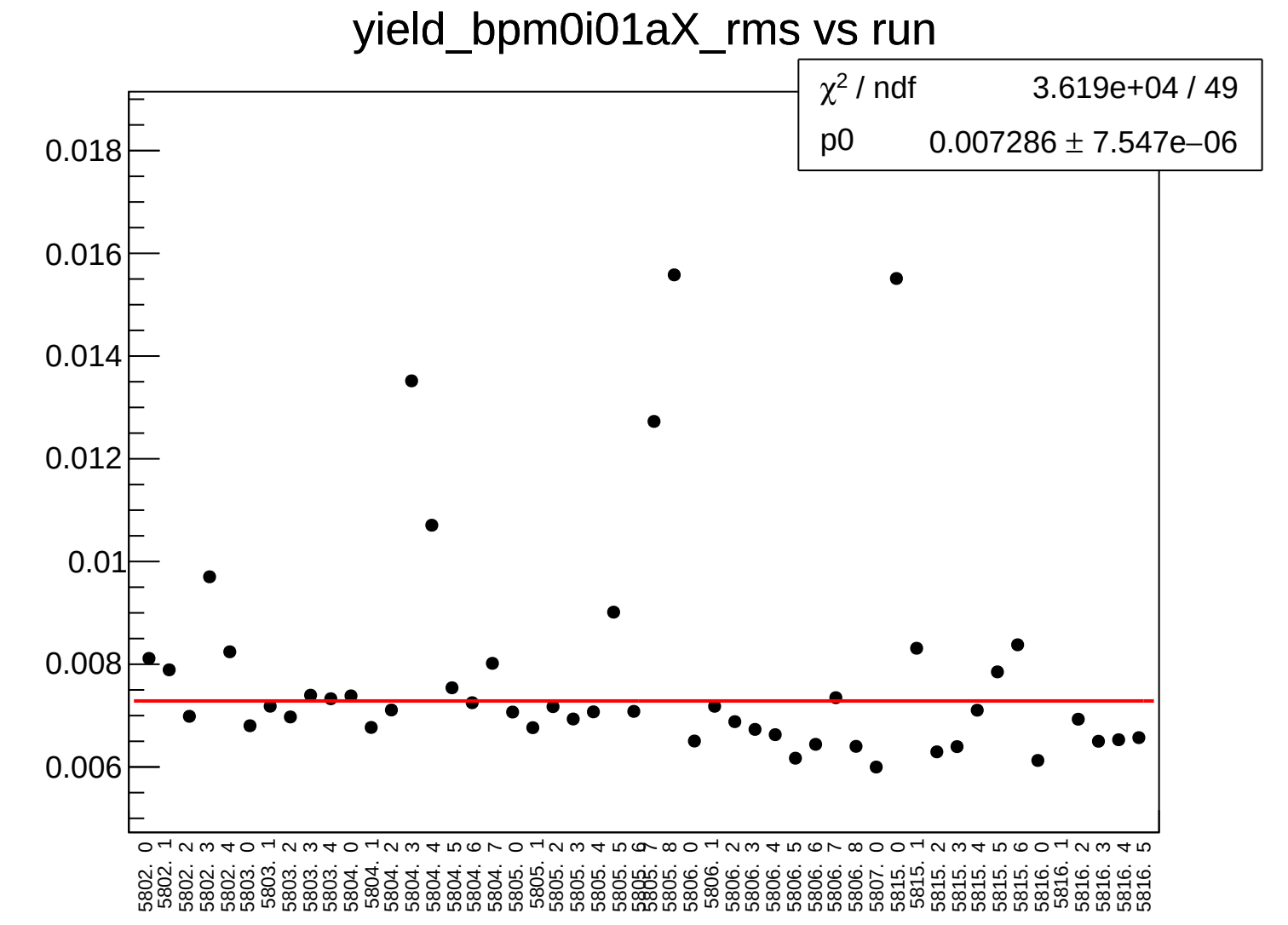

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

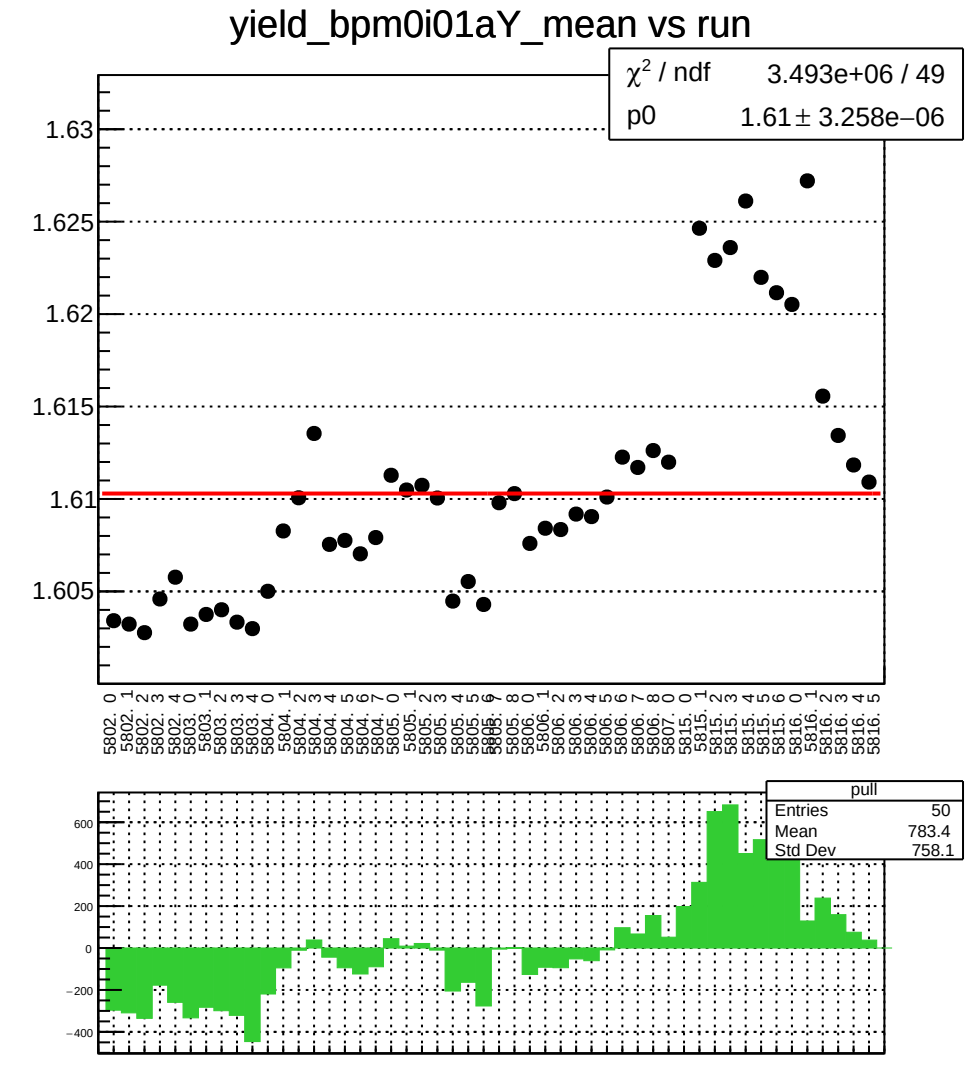
yield_bpm0i01Y_rms vs run

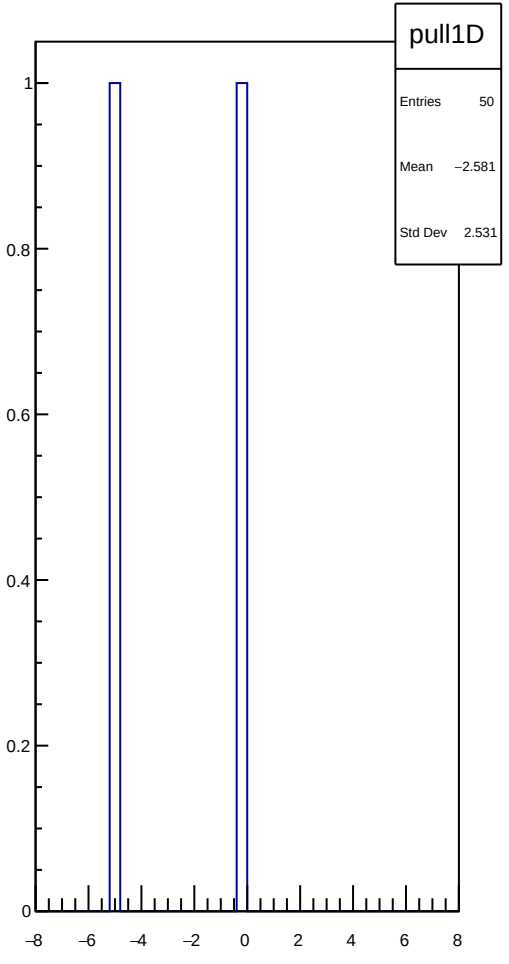


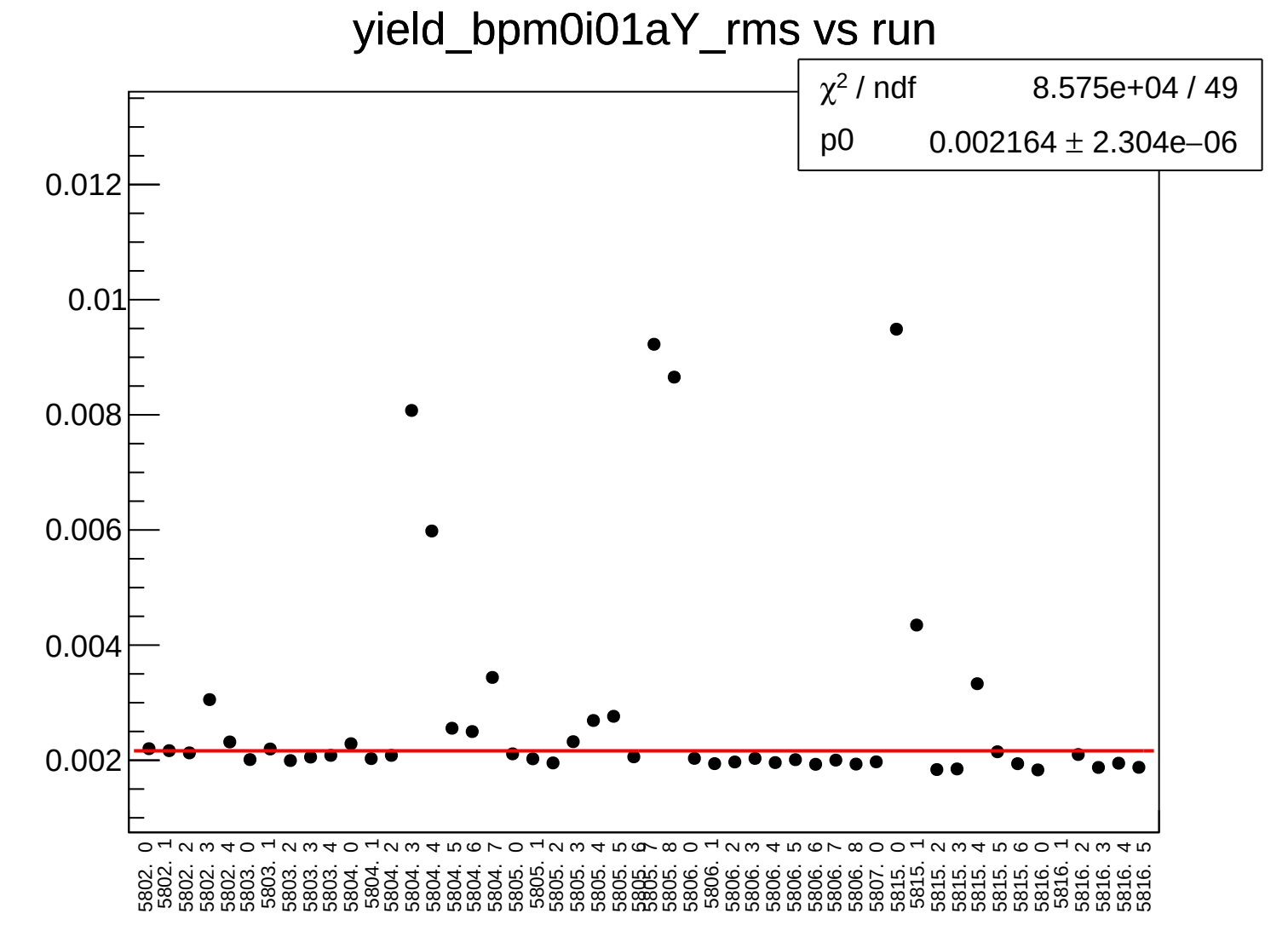

yield_bpm0i01aX_mean vs run
χ² / ndf 1.459e+07 / 49
p0 −2.119 ± 1.067e−05
−2.04
−2.06
−2.08
−2.1
−2.12
−2.14
−2.16
pull
Entries 50
Mean −576.1
Std Dev 599.5
1200
1000
800
600
400
200
0
−200
−400
−600
−800

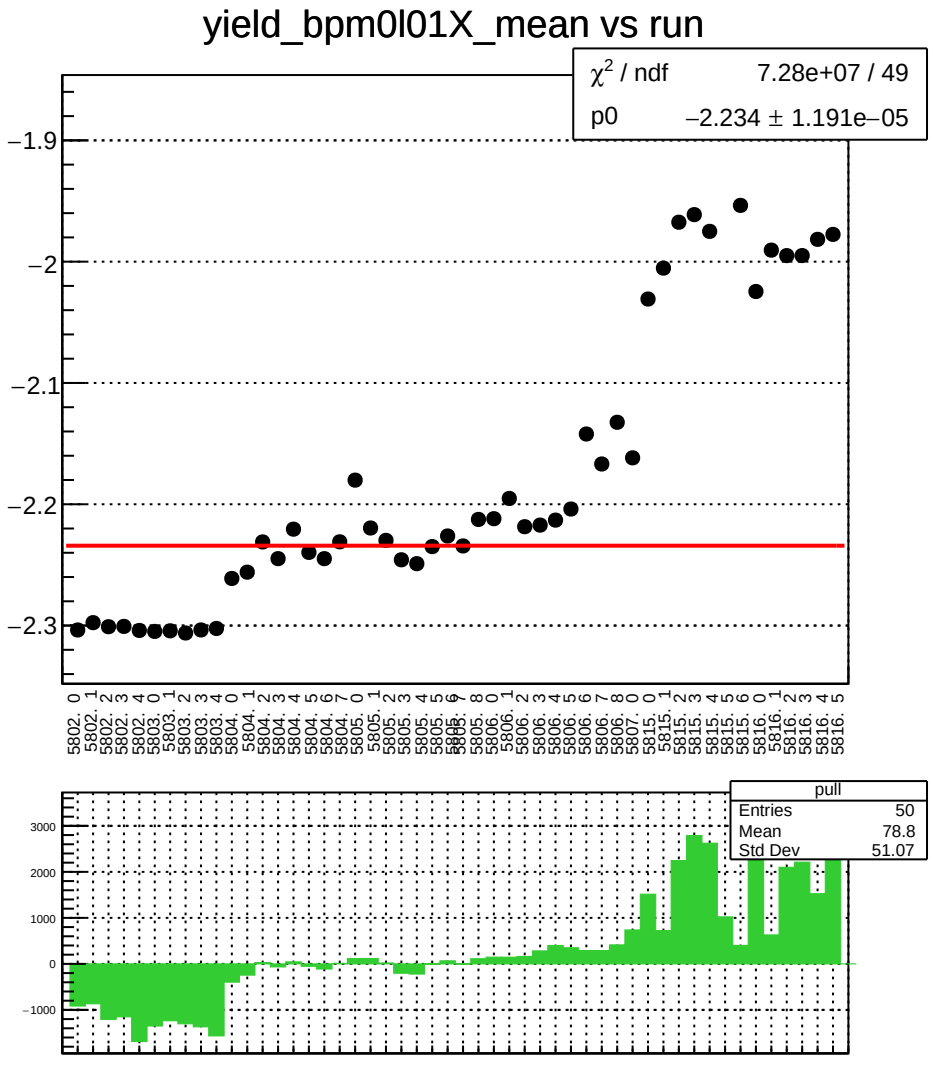

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

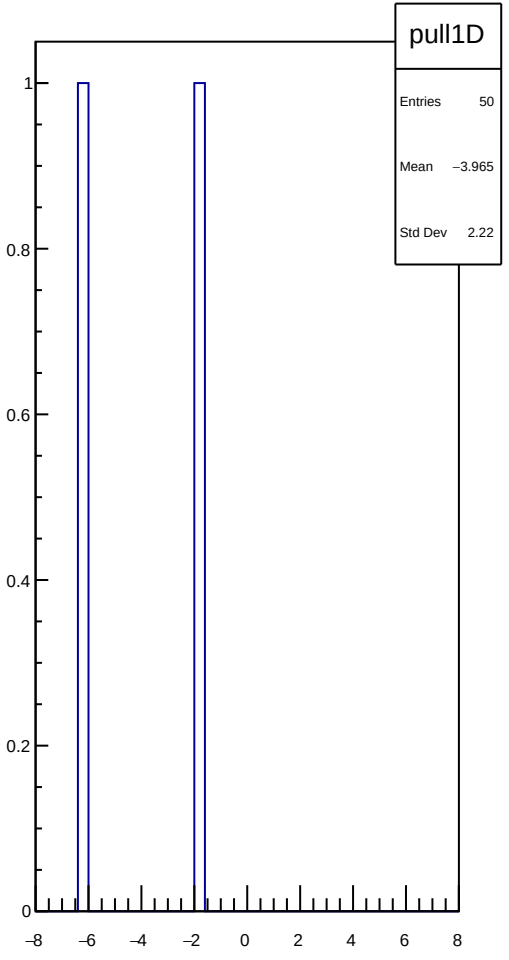

yield_bpm0i01aX_rms vs run
χ² / ndf 3.619e+04 / 49
p0 0.007286 ± 7.547e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

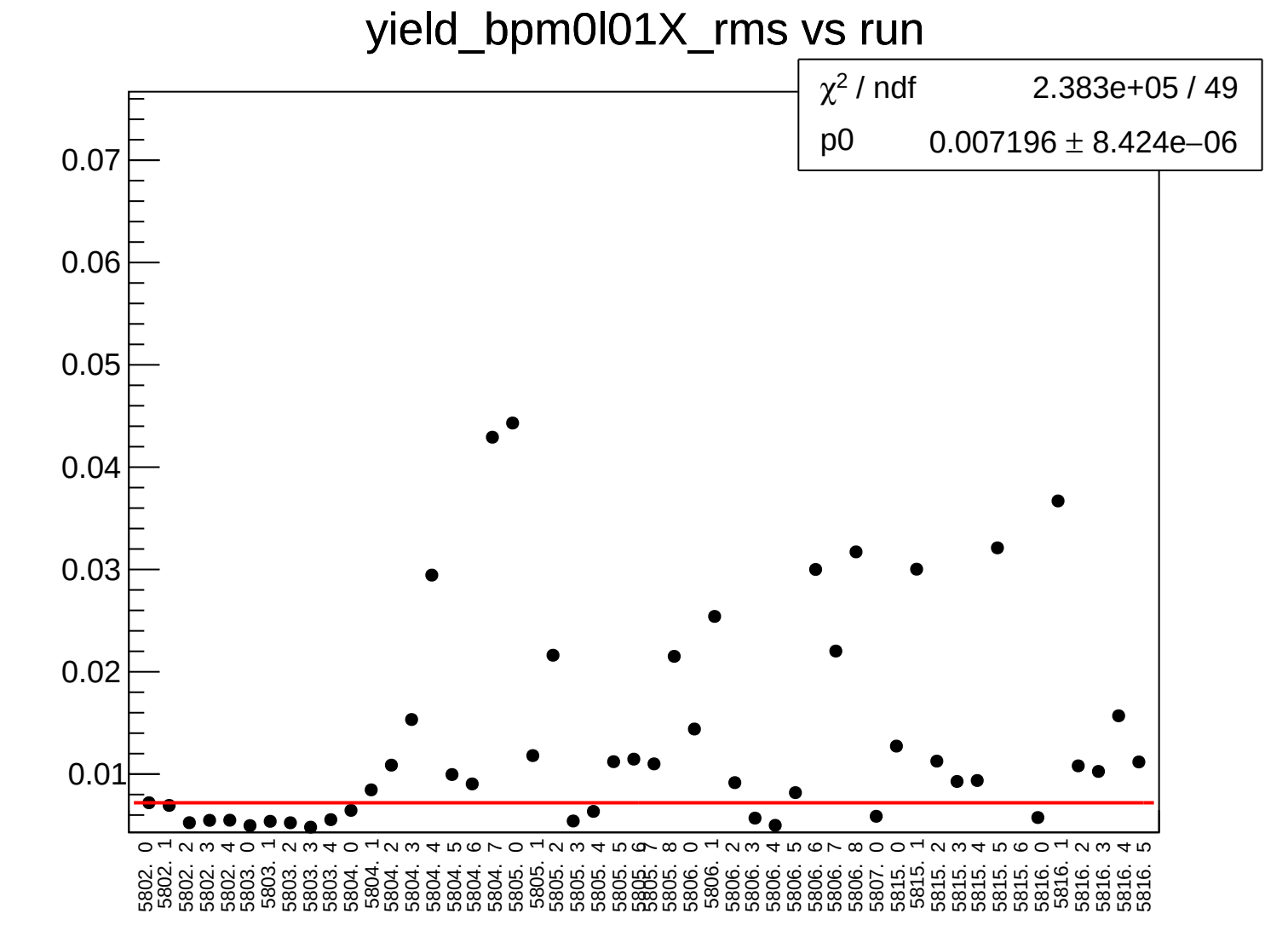

yield_bpm0i01aY_mean vs run
χ² / ndf 3.493e+06 / 49
p0 1.61 ± 3.258e−06
1.63
1.625
1.62
1.615
1.61
1.605
pull
Entries 50
Mean 783.4
Std Dev 758.1
600
400
200
0
−200
−400

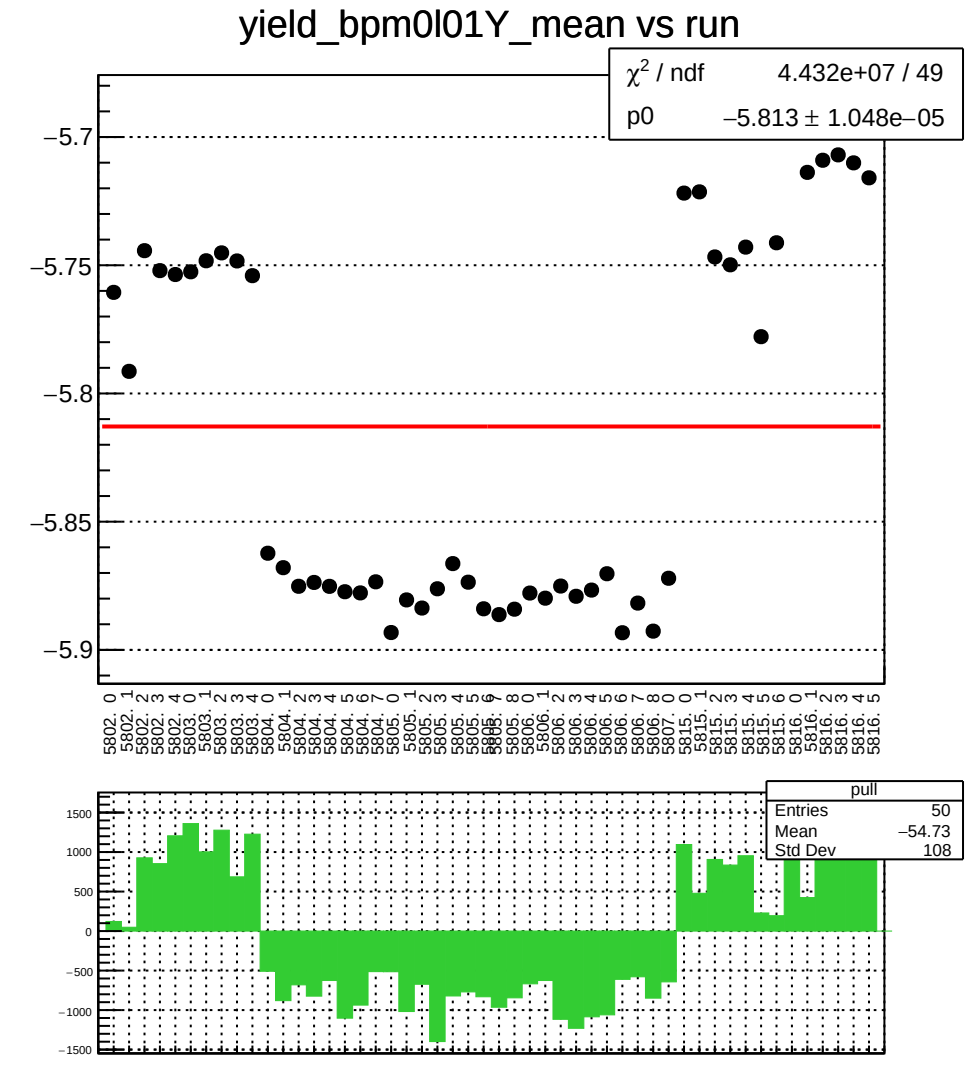

pull1D
Entries 50
Mean −2.581
Std Dev 2.531
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

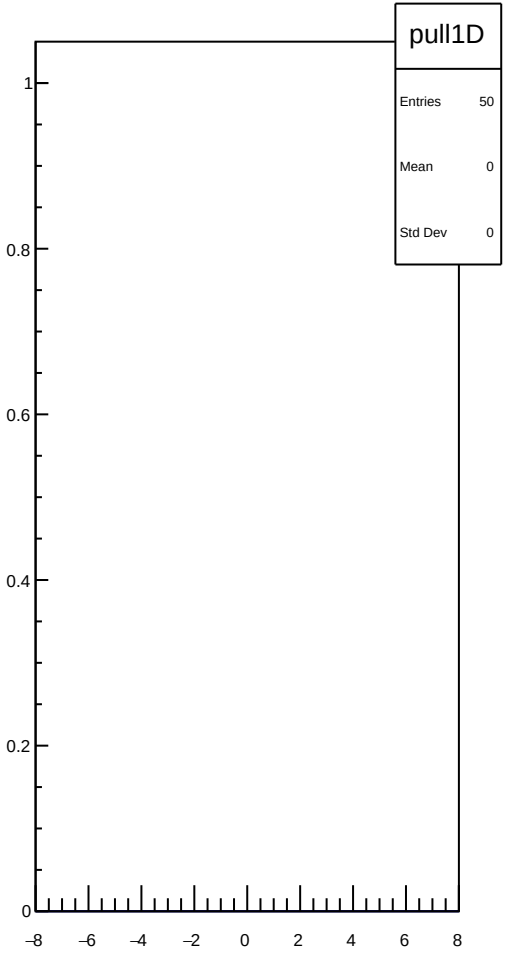

yield_bpm0i01aY_rms vs run
χ² / ndf 8.575e+04 / 49
p0 0.002164 ± 2.304e−06
0.012
0.01
0.008
0.006
0.004
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

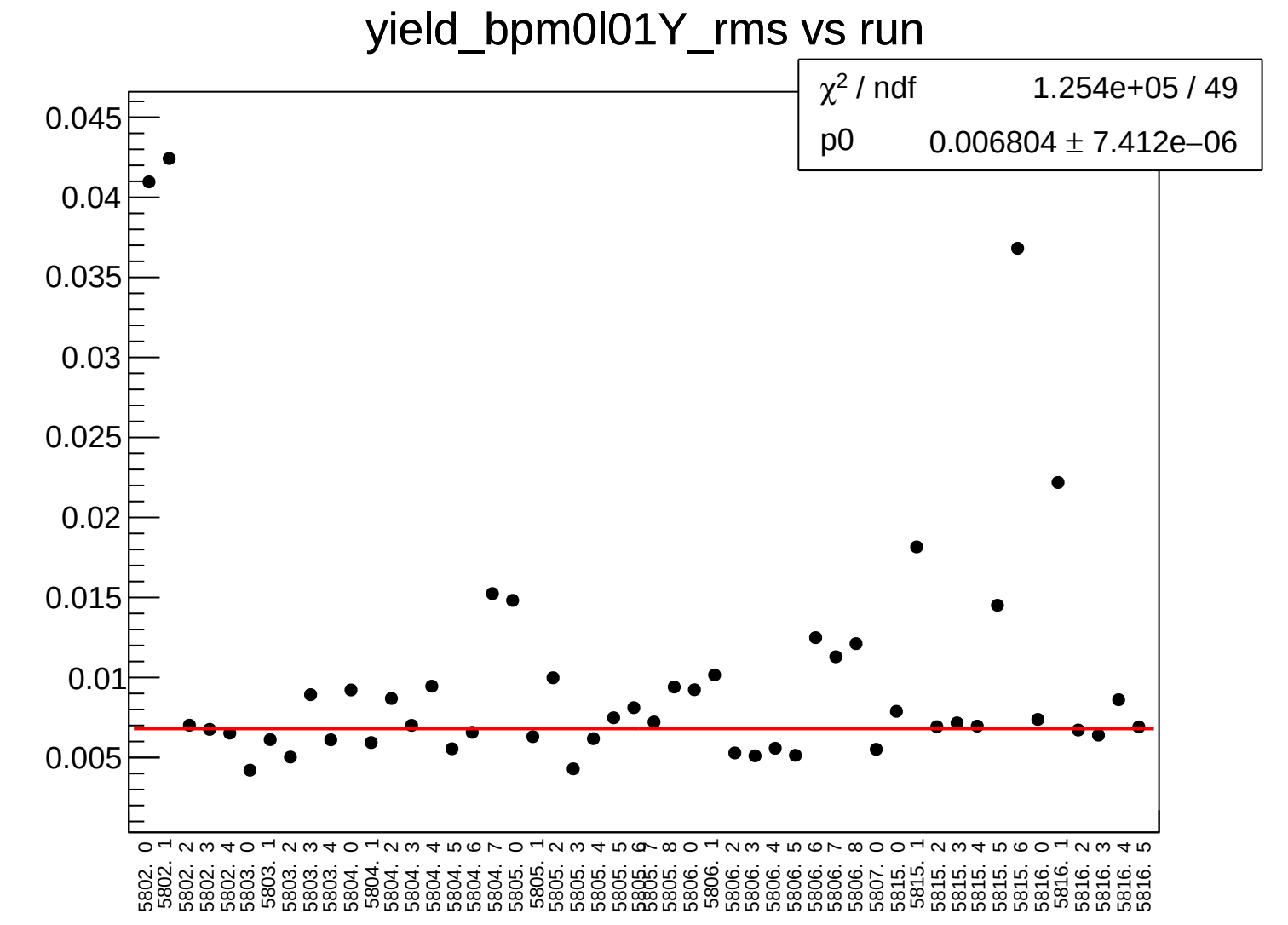

yield_bpm0l01X_mean vs run
χ² / ndf 7.28e+07 / 49
p0 −2.234 ± 1.191e−05
−1.9
−2
−2.1
−2.2
−2.3
pull
Entries 50
Mean 78.8
Std Dev 51.07
3000
2000
1000
0
−1000

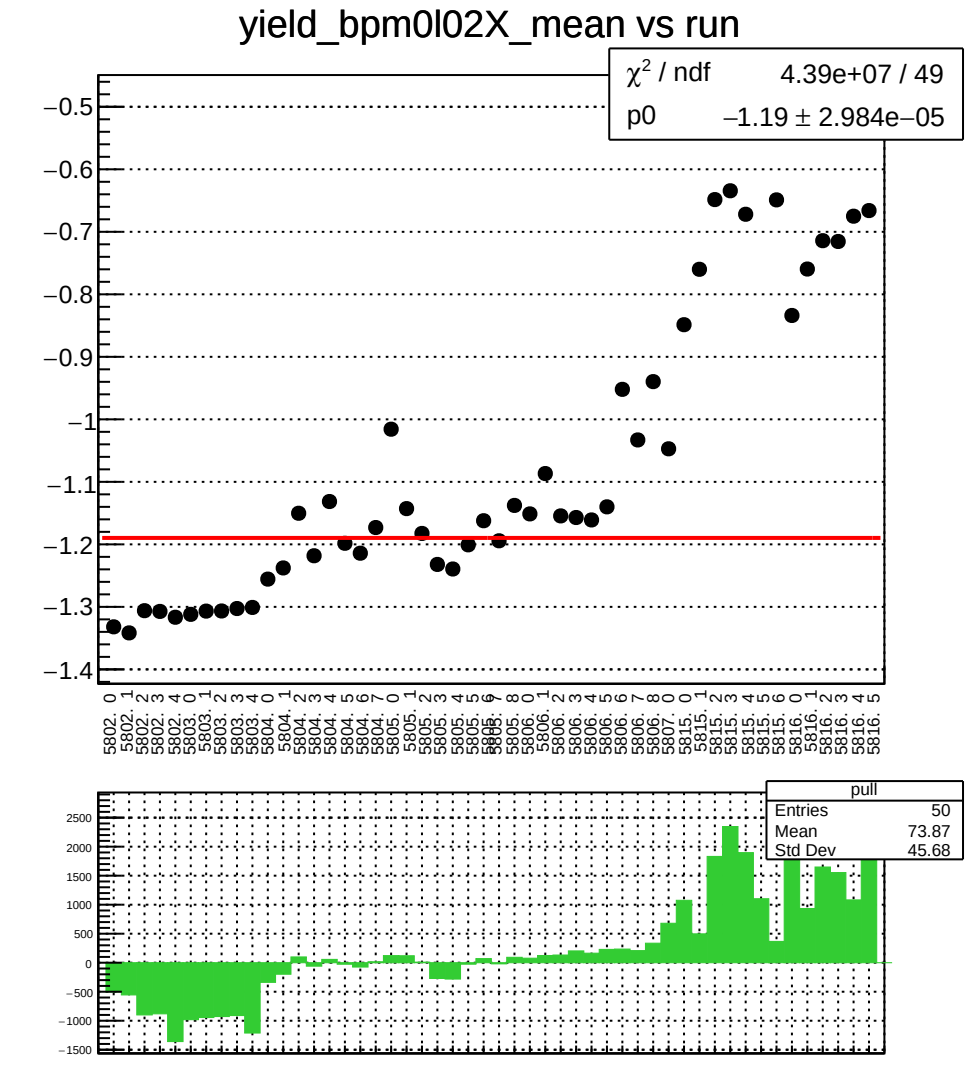

pull1D
Entries 50
Mean −3.965
Std Dev 2.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

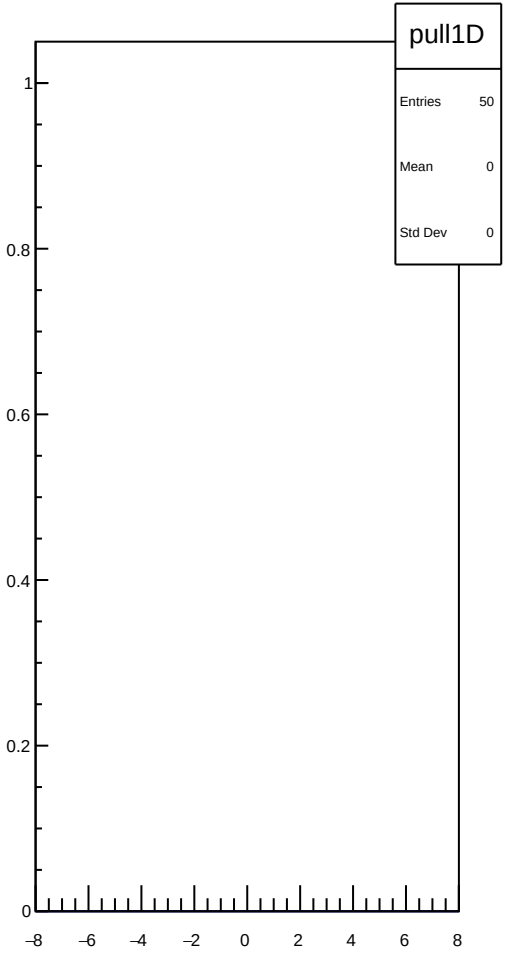

yield_bpm0l01X_rms vs run
χ² / ndf 2.383e+05 / 49
p0 0.007196 ± 8.424e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

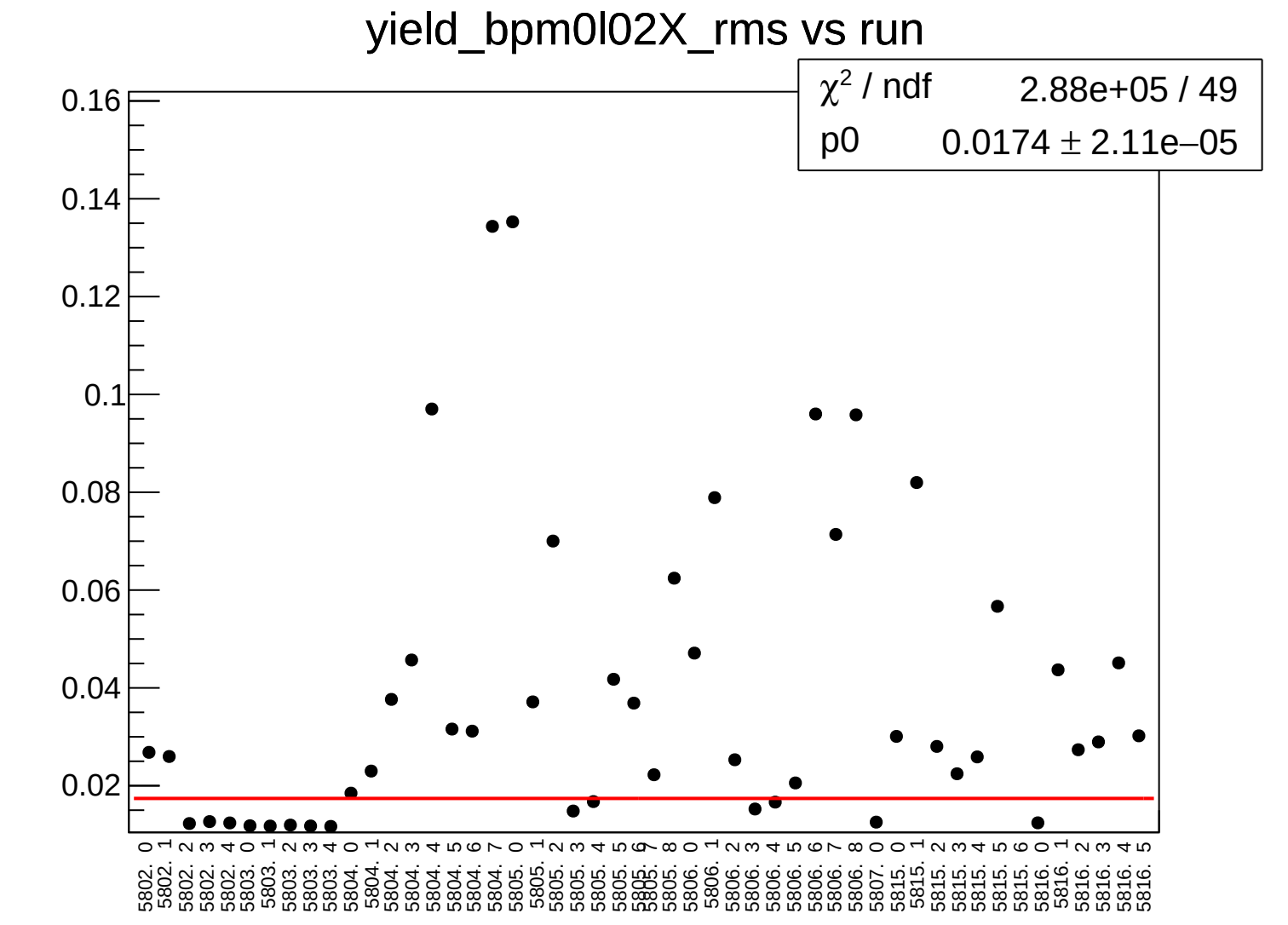

yield_bpm0l01Y_mean vs run
χ² / ndf 4.432e+07 / 49
p0 −5.813 ± 1.048e−05
−5.7
−5.75
−5.8
−5.85
−5.9
pull
Entries 50
Mean −54.73
Std Dev 108
1500
1000
500
0
−500
−1000
−1500

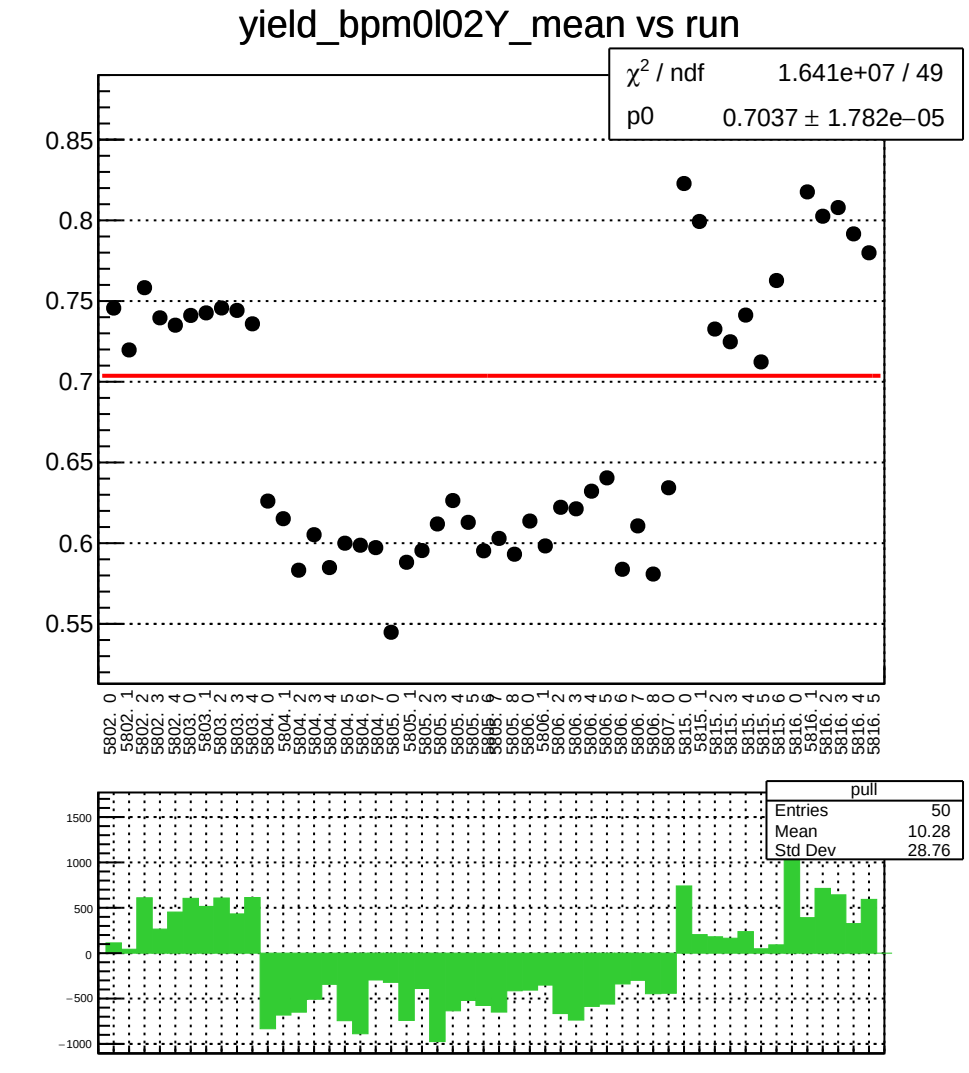

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

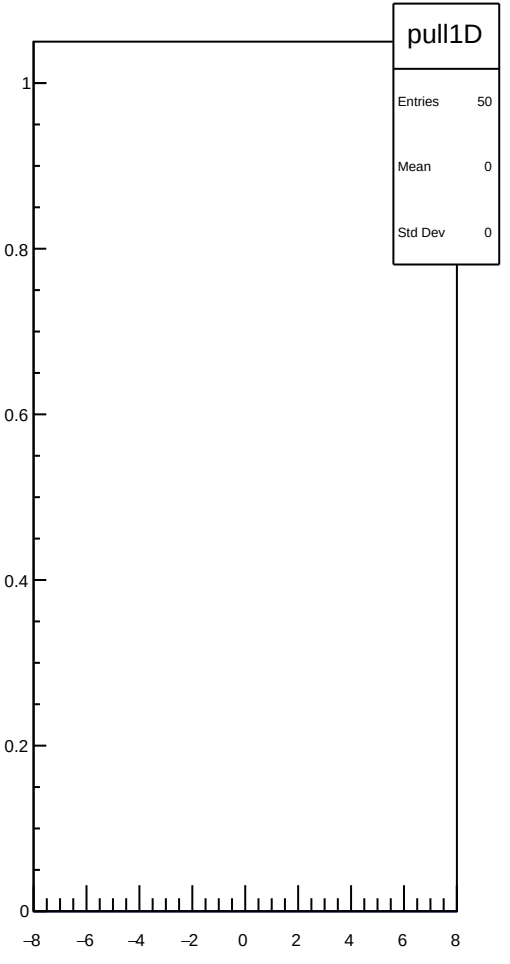

yield_bpm0l01Y_rms vs run
χ² / ndf 1.254e+05 / 49
p0 0.006804 ± 7.412e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

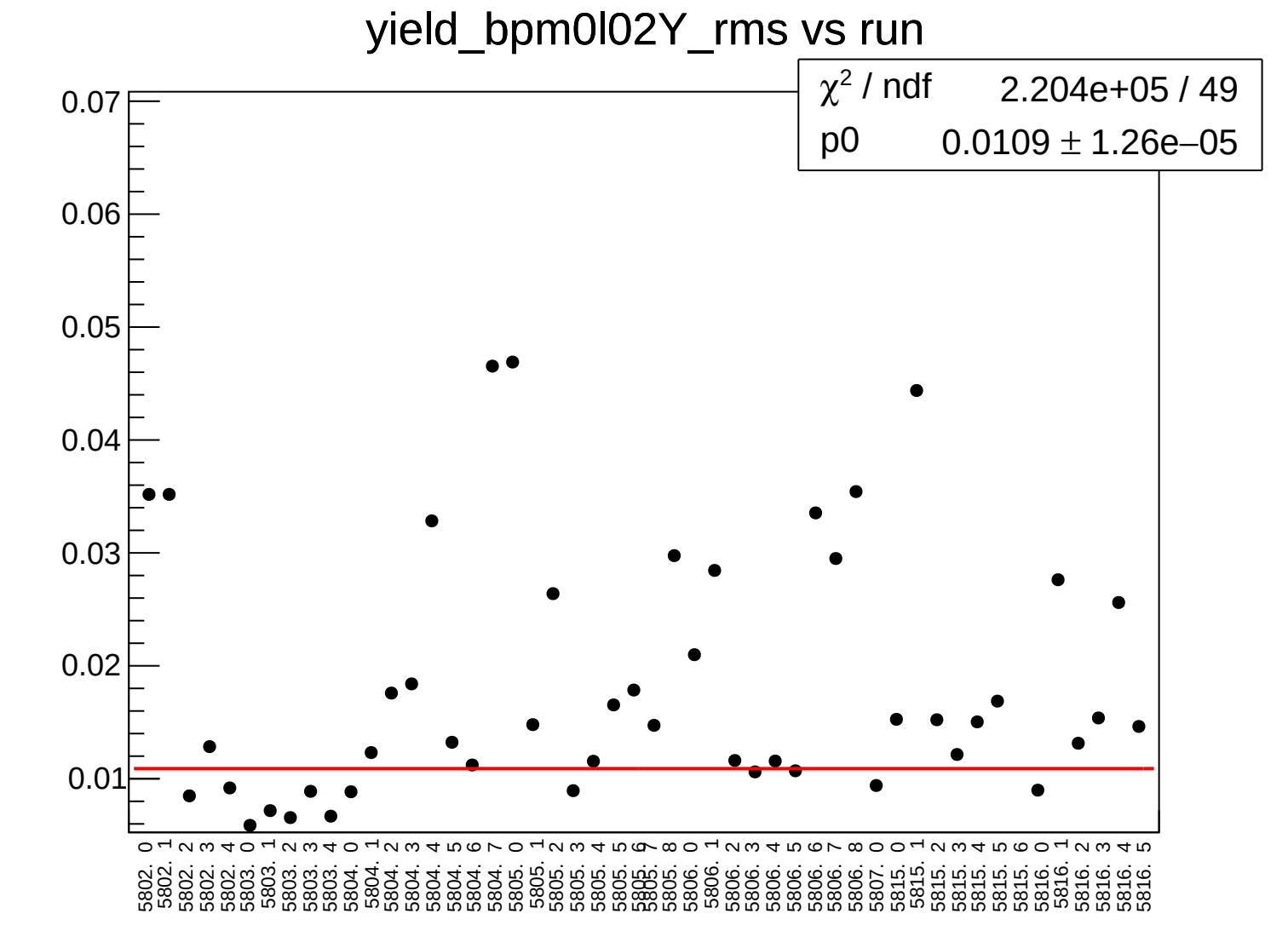

yield_bpm0l02X_mean vs run
χ² / ndf 4.39e+07 / 49
p0 −1.19 ± 2.984e−05
pull
Entries 50
Mean 73.87
Std Dev 45.68

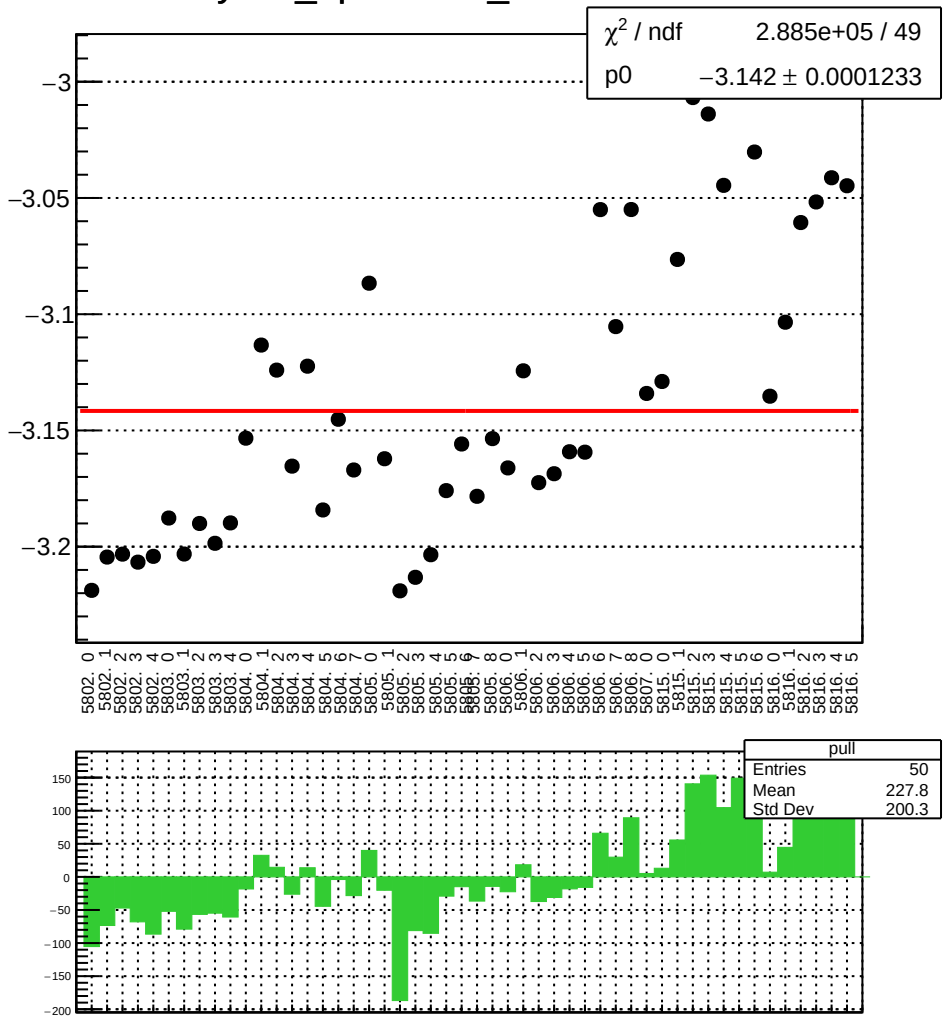

pull1D
Entries 50
Mean 0
Std Dev 0

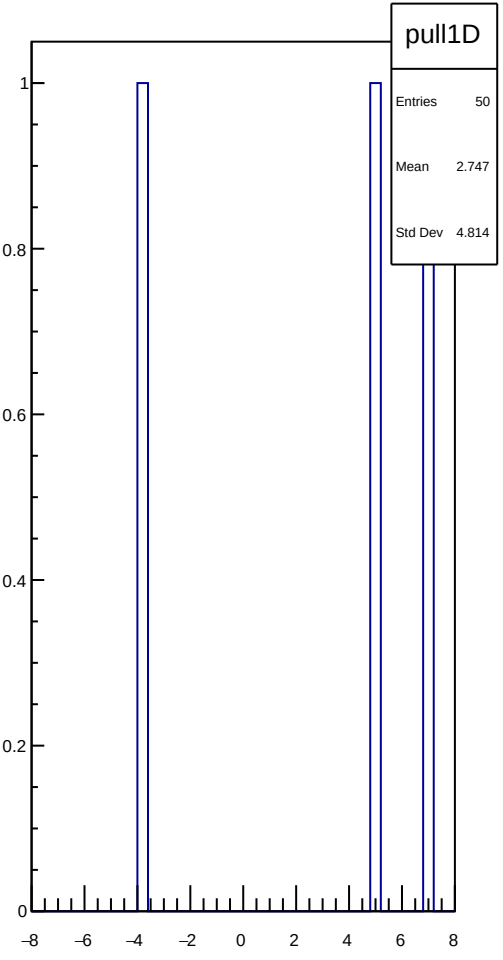

yield_bpm0l02X_rms vs run
χ² / ndf 2.88e+05 / 49
p0 0.0174 ± 2.11e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

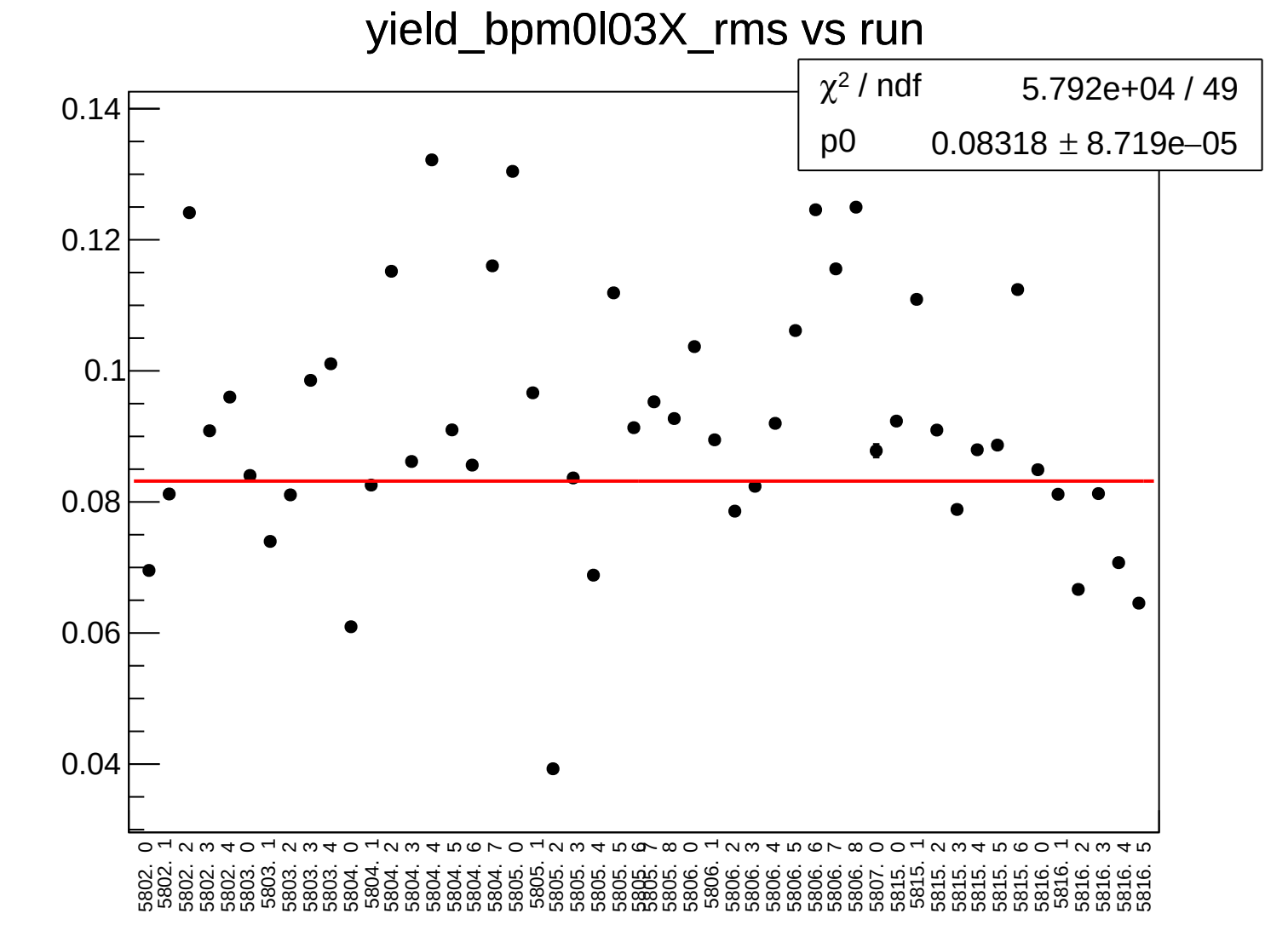

yield_bpm0l02Y_mean vs run
χ² / ndf 1.641e+07 / 49
p0 0.7037 ± 1.782e−05
0.85
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 50
Mean 10.28
Std Dev 28.76
1500
1000
500
0
−500
−1000

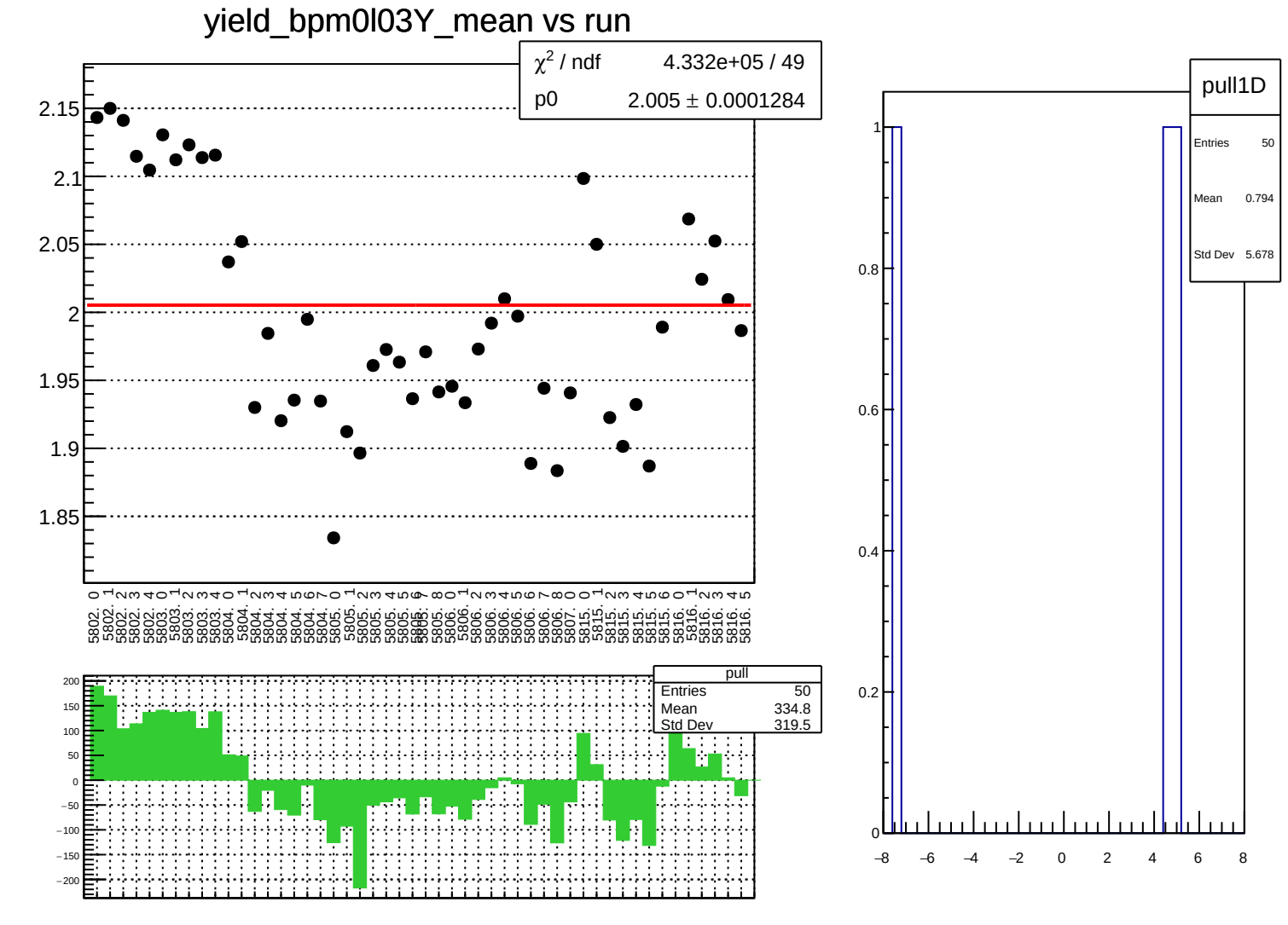

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

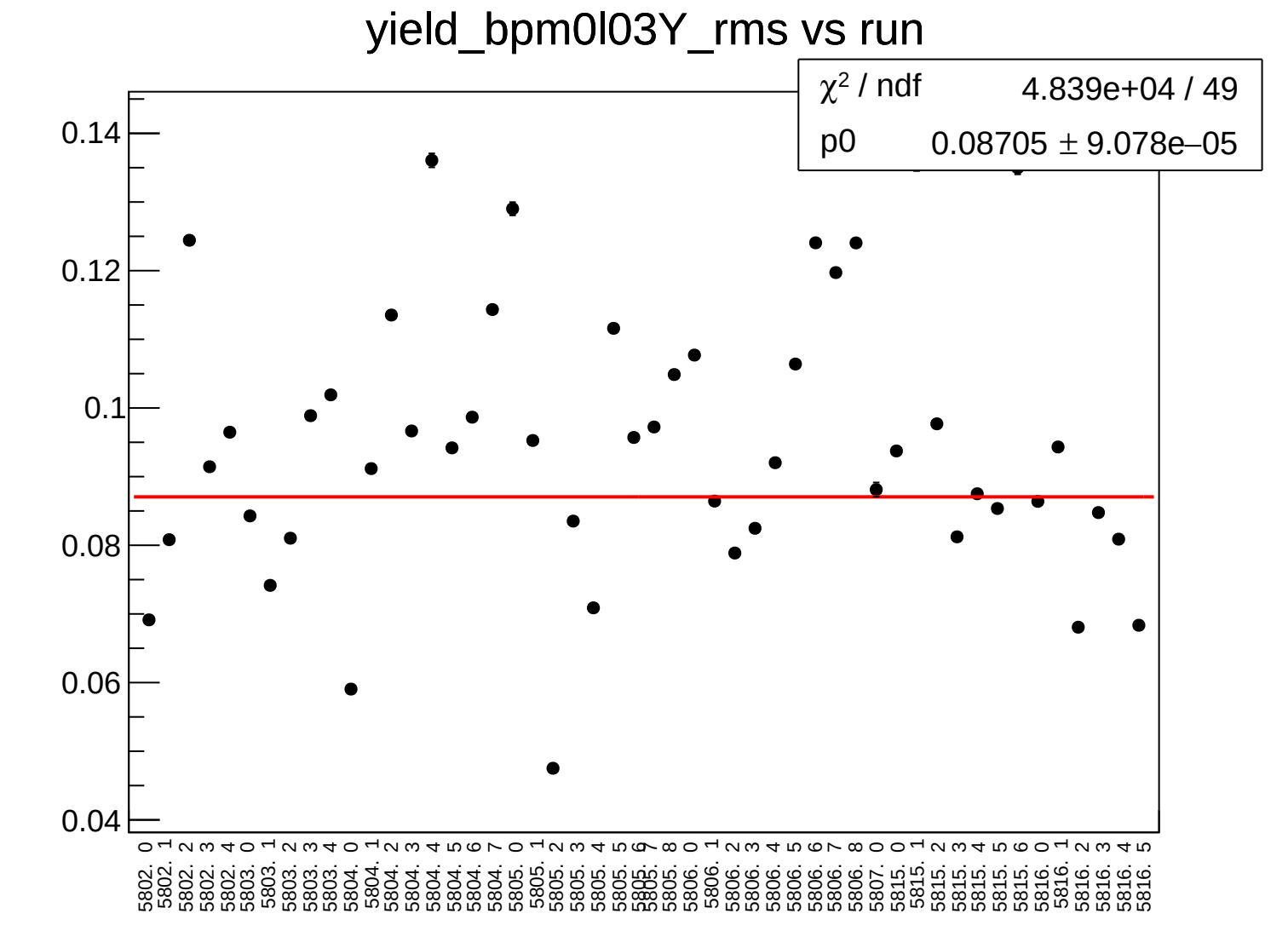

yield_bpm0l02Y_rms vs run
χ² / ndf 2.204e+05 / 49
p0 0.0109 ± 1.26e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

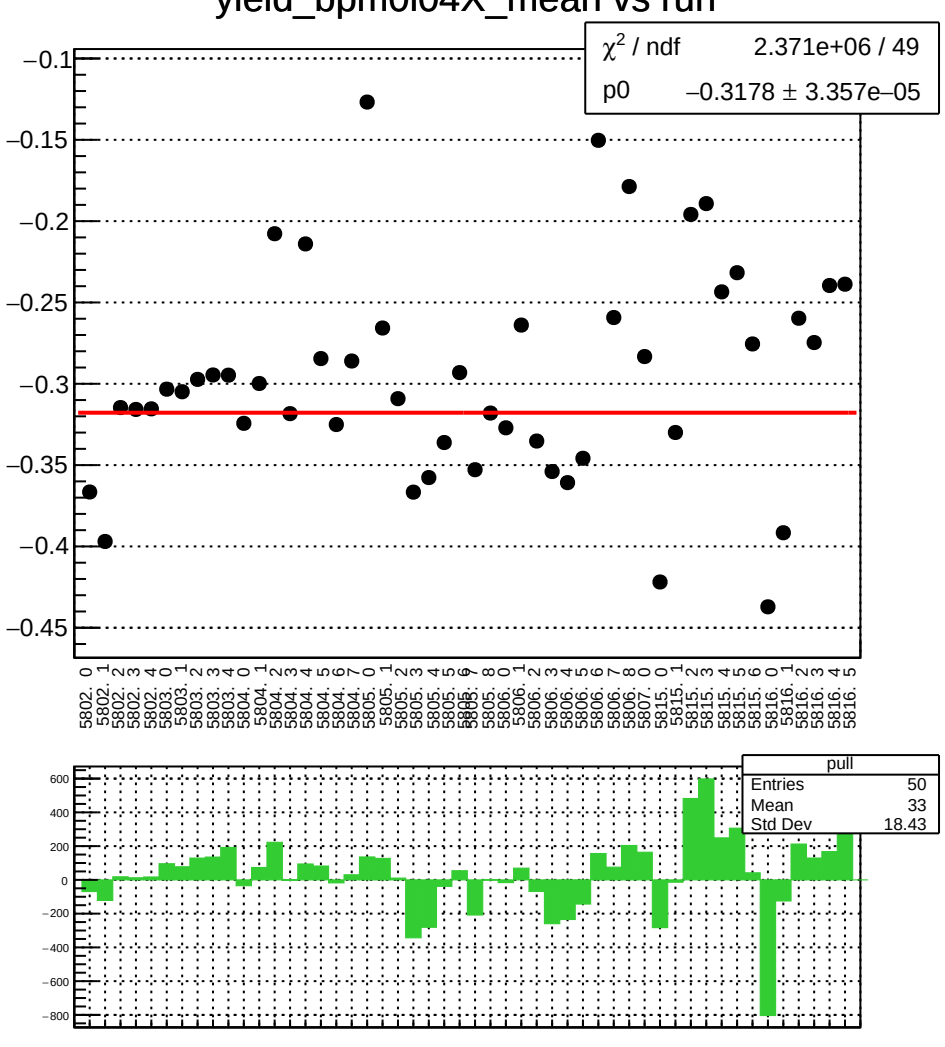

yield_bpm0l03X_mean vs run
χ² / ndf 2.885e+05 / 49
p0 −3.142 ± 0.0001233
−3
−3.05
−3.1
−3.15
−3.2
pull
Entries 50
Mean 227.8
Std Dev 200.3
150
100
50
0
−50
−100
−150
−200

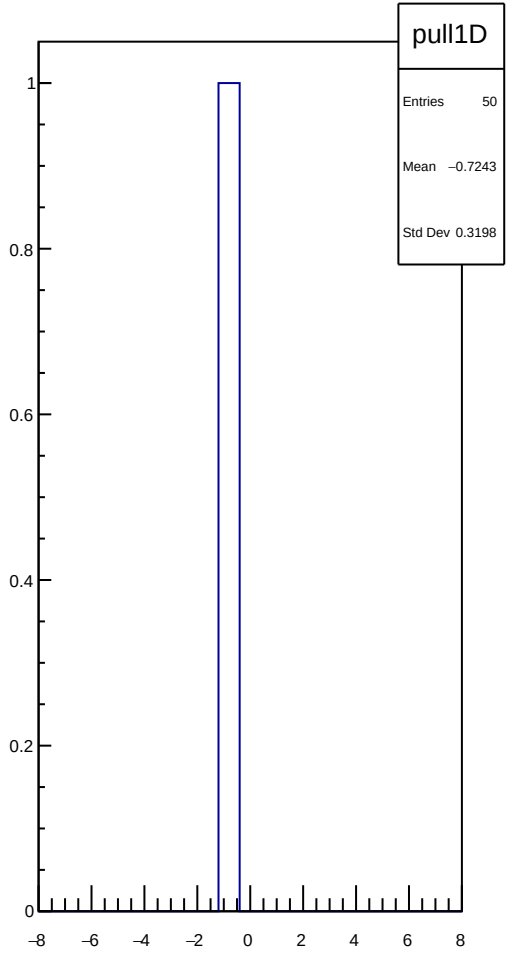

pull1D
Entries 50
Mean 2.747
Std Dev 4.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

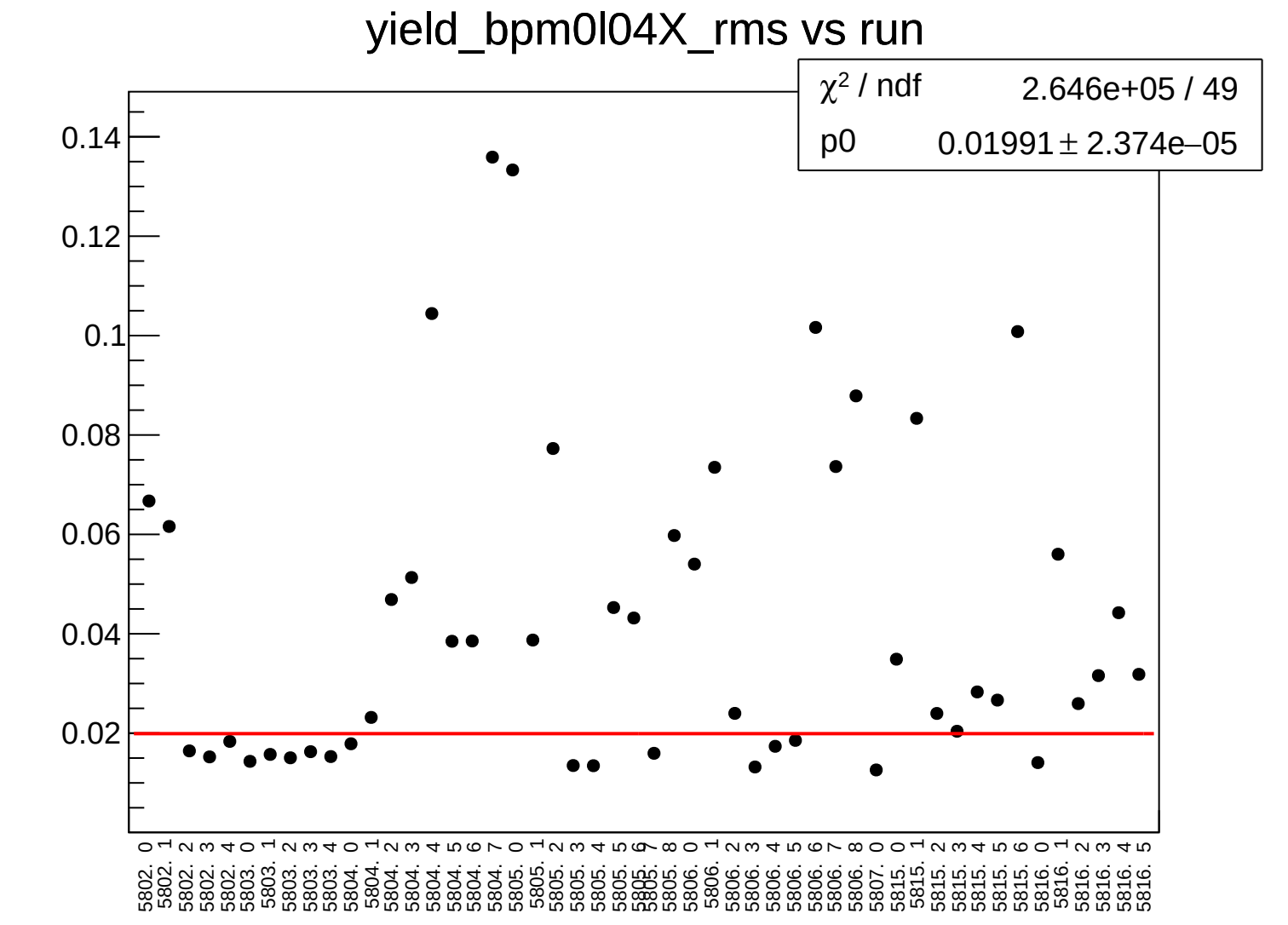

yield_bpm0l03X_rms vs run
χ² / ndf 5.792e+04 / 49
p0 0.08318 ± 8.719e–05
0.14
0.12
0.1
0.08
0.06
0.04
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

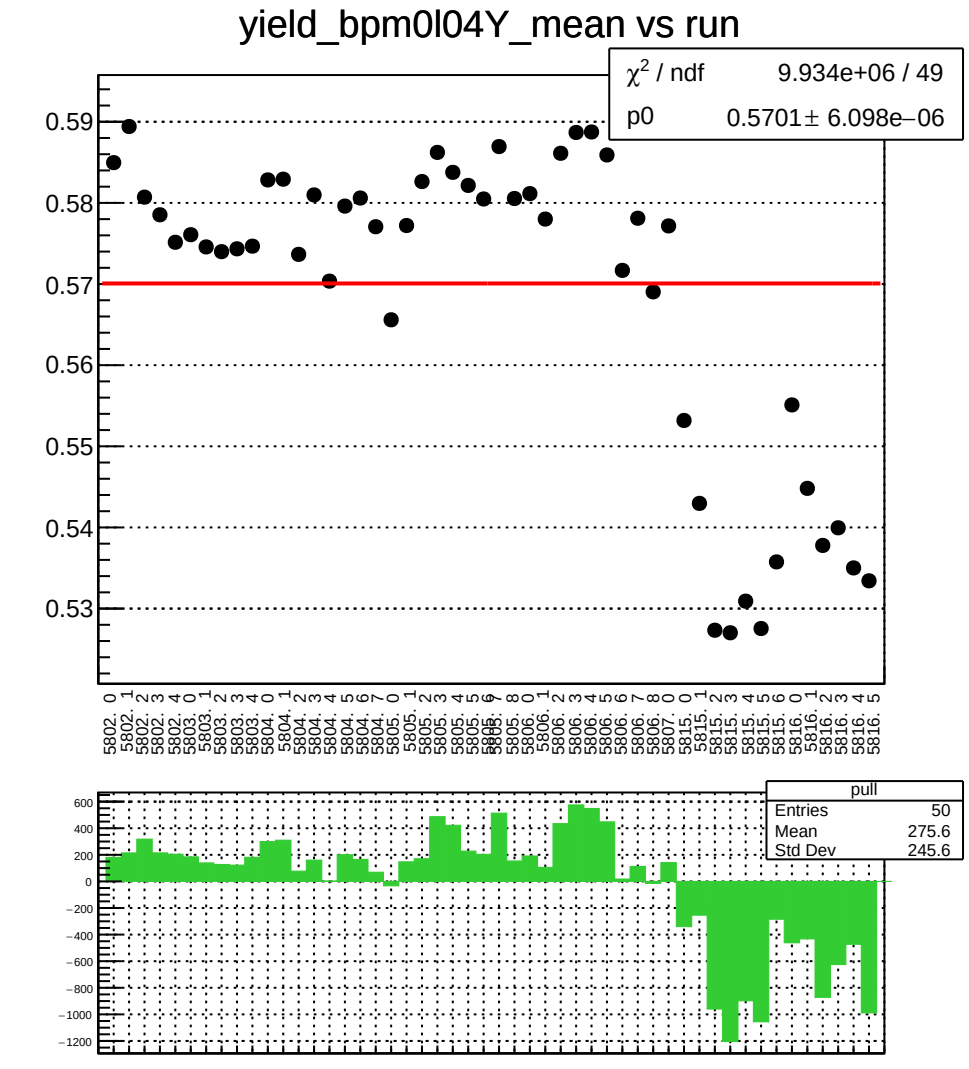

yield_bpm0l03Y_mean vs run
χ² / ndf 4.332e+05 / 49
p0 2.005 ± 0.0001284
2.15
2.1
2.05
2
1.95
1.9
1.85
pull
Entries 50
Mean 334.8
Std Dev 319.5
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 50
Mean 0.794
Std Dev 5.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

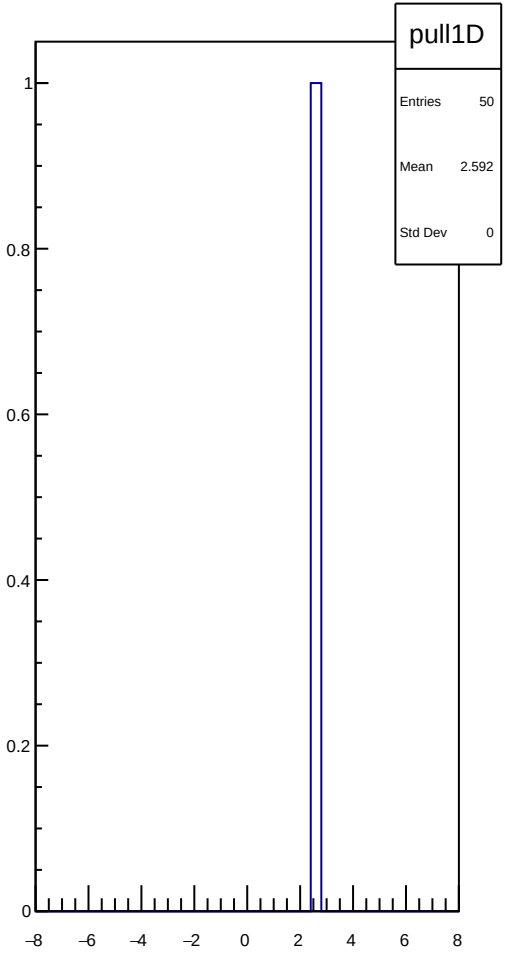

yield_bpm0l03Y_rms vs run
χ² / ndf 4.839e+04 / 49
p0 0.08705 ± 9.078e−05
0.14
0.12
0.1
0.08
0.06
0.04
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

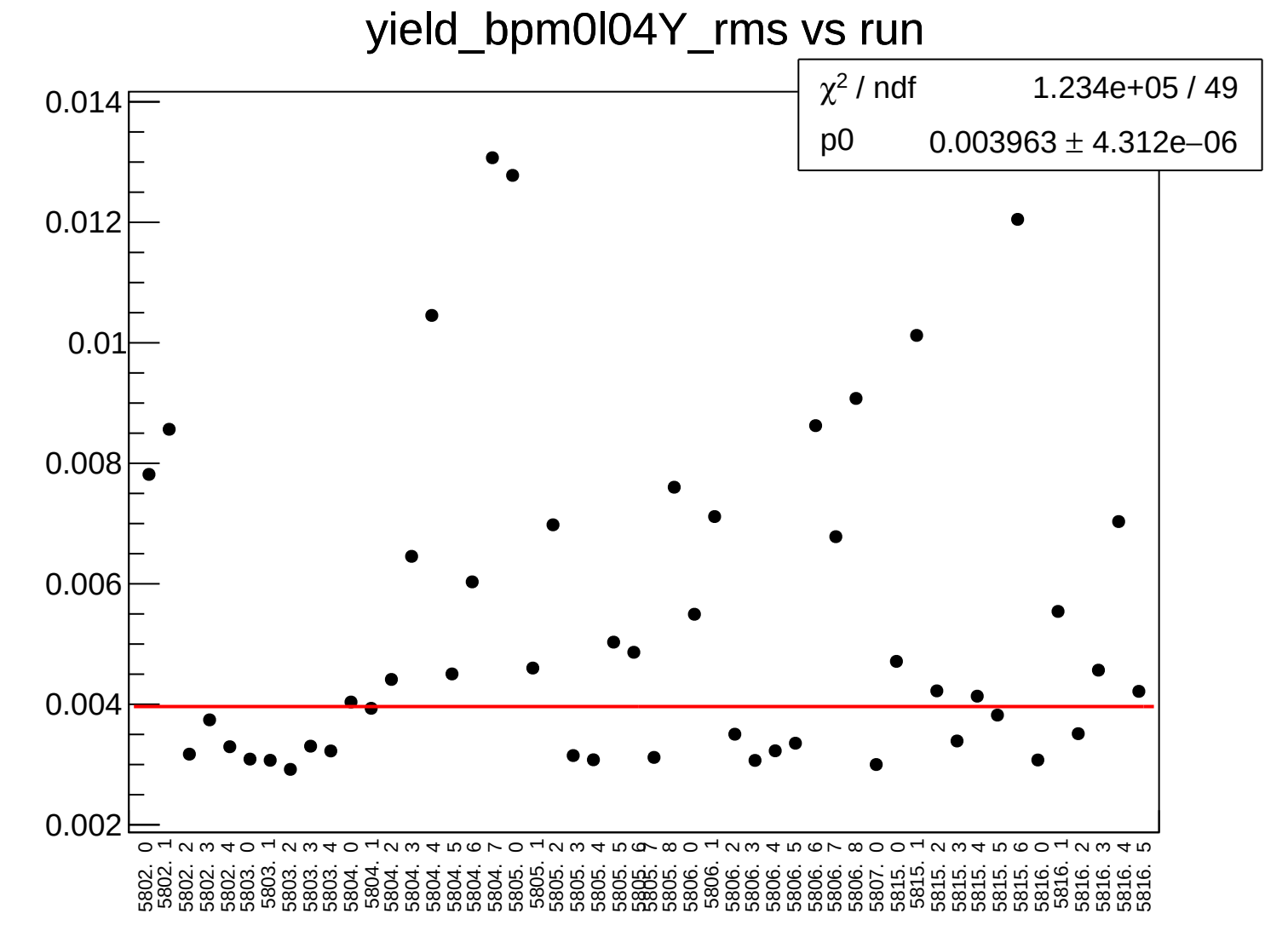

yield_bpm0l04X_mean vs run
χ² / ndf 2.371e+06 / 49
p0 −0.3178 ± 3.357e−05
pull
Entries 50
Mean 33
Std Dev 18.43

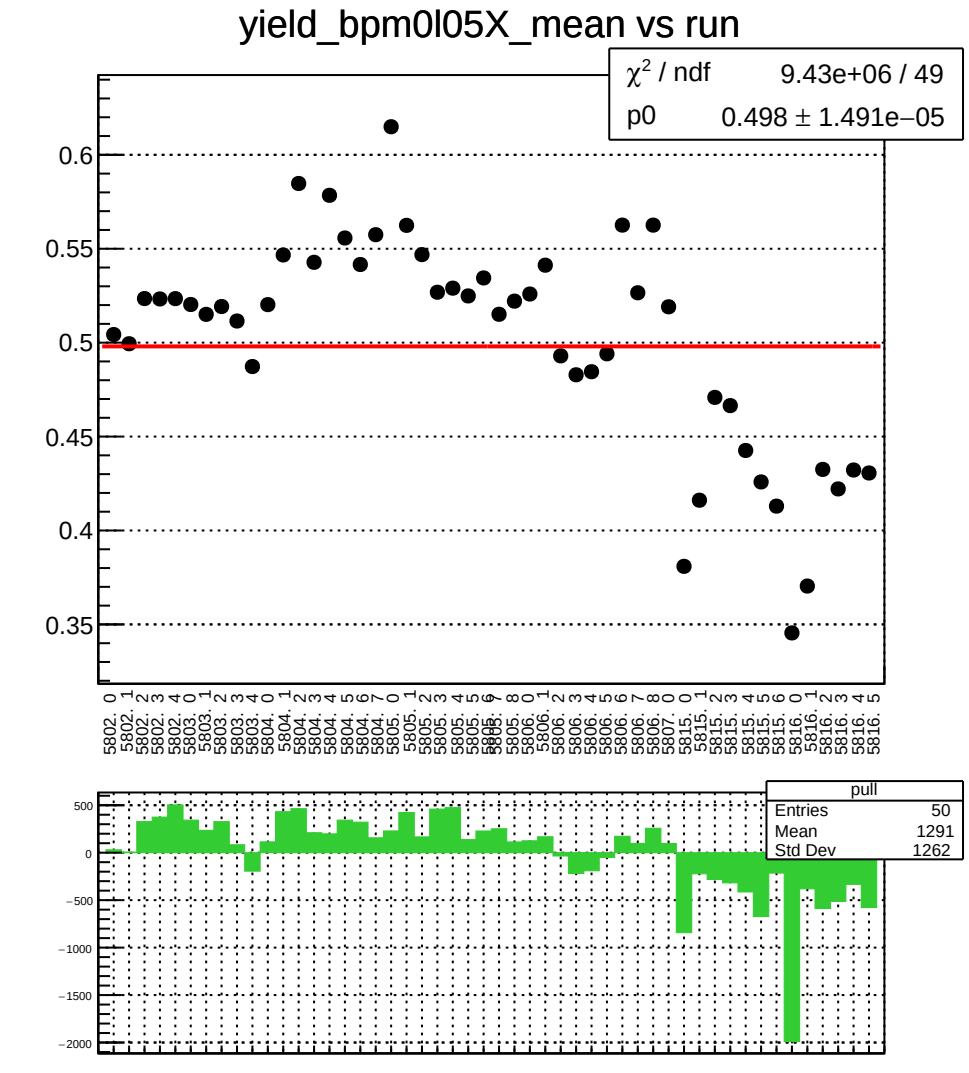

pull1D
Entries 50
Mean −0.7243
Std Dev 0.3198

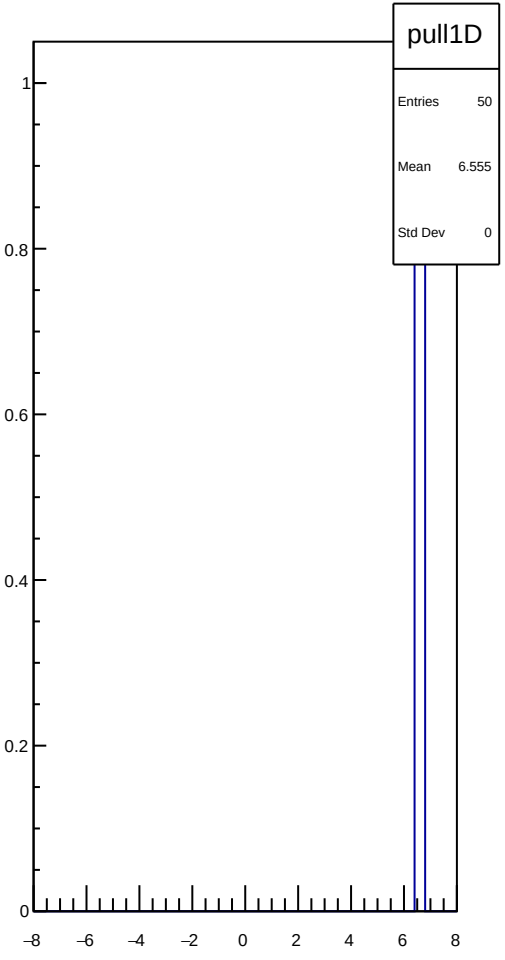

yield_bpm0l04X_rms vs run
χ² / ndf 2.646e+05 / 49
p0 0.01991 ± 2.374e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

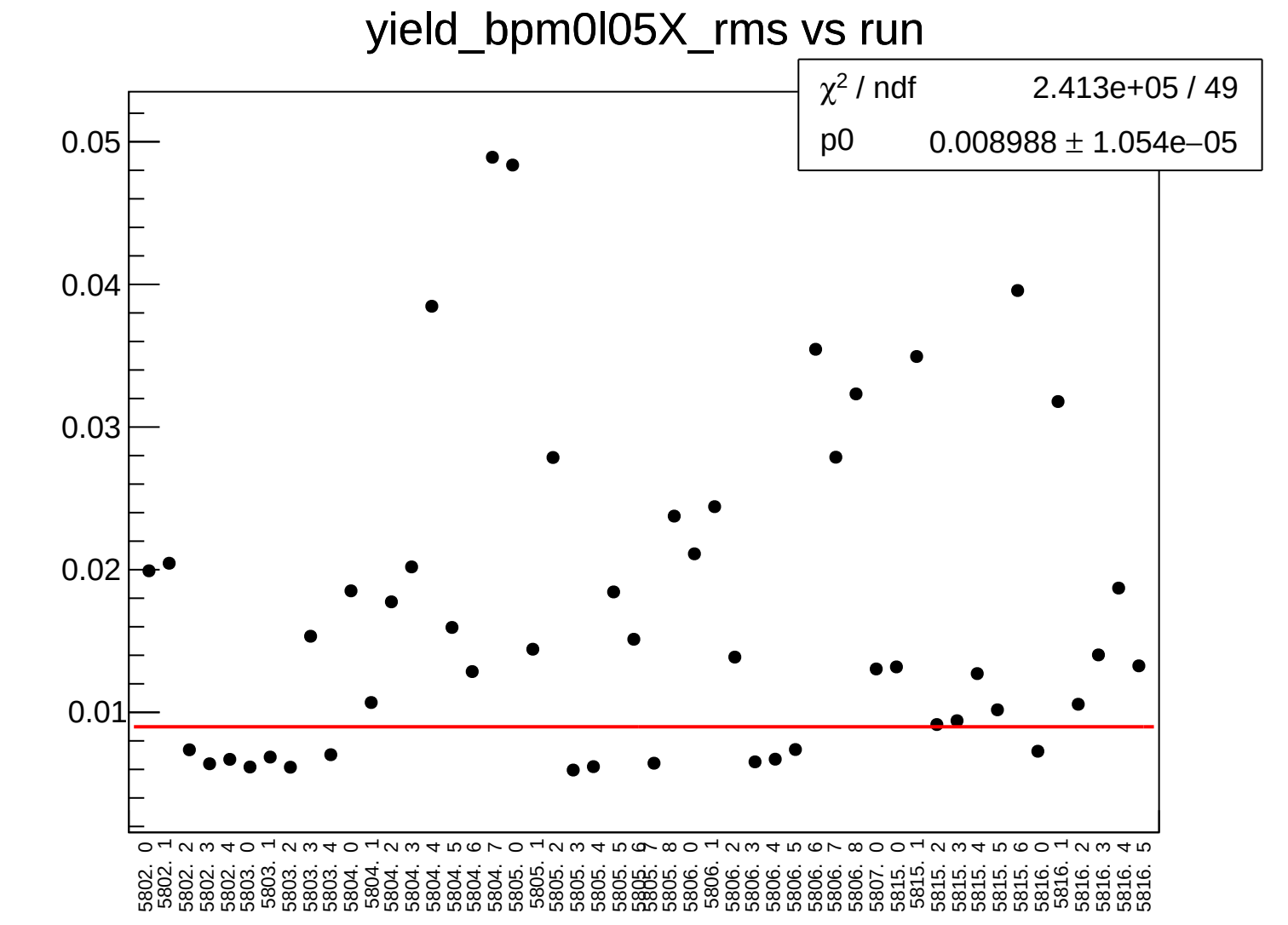

yield_bpm0l04Y_mean vs run
χ² / ndf 9.934e+06 / 49
p0 0.5701 ± 6.098e−06
0.59
0.58
0.57
0.56
0.55
0.54
0.53
pull
Entries 50
Mean 275.6
Std Dev 245.6
600
400
200
0
−200
−400
−600
−800
−1000
−1200

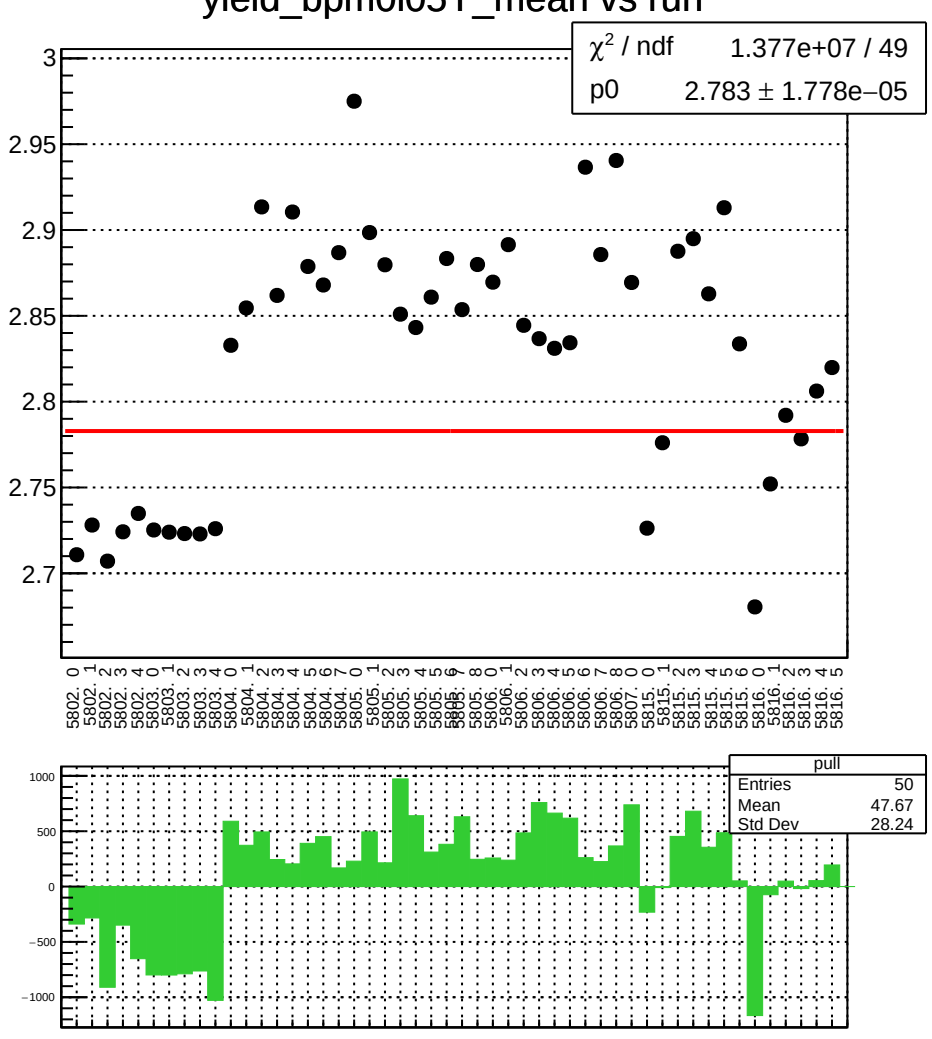

pull1D
Entries 50
Mean 2.592
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

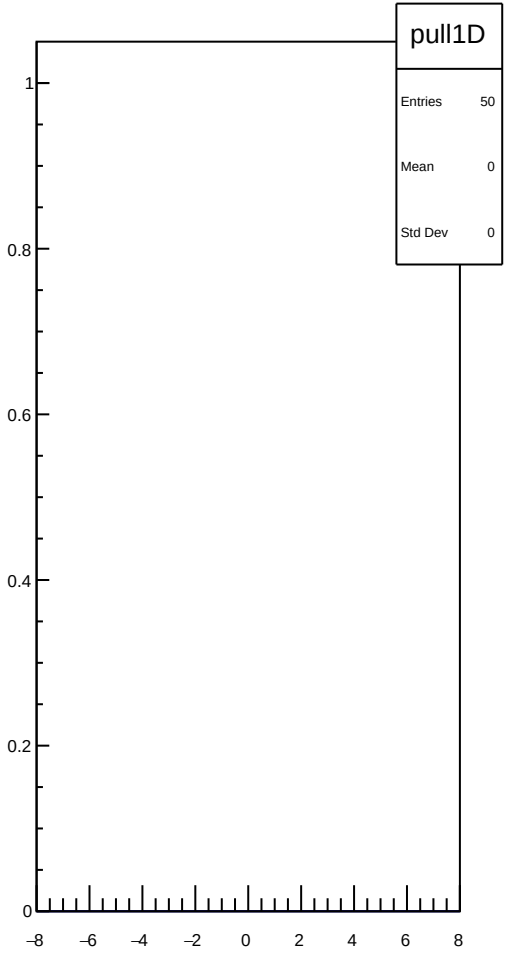

yield_bpm0l04Y_rms vs run
χ² / ndf 1.234e+05 / 49
p0 0.003963 ± 4.312e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

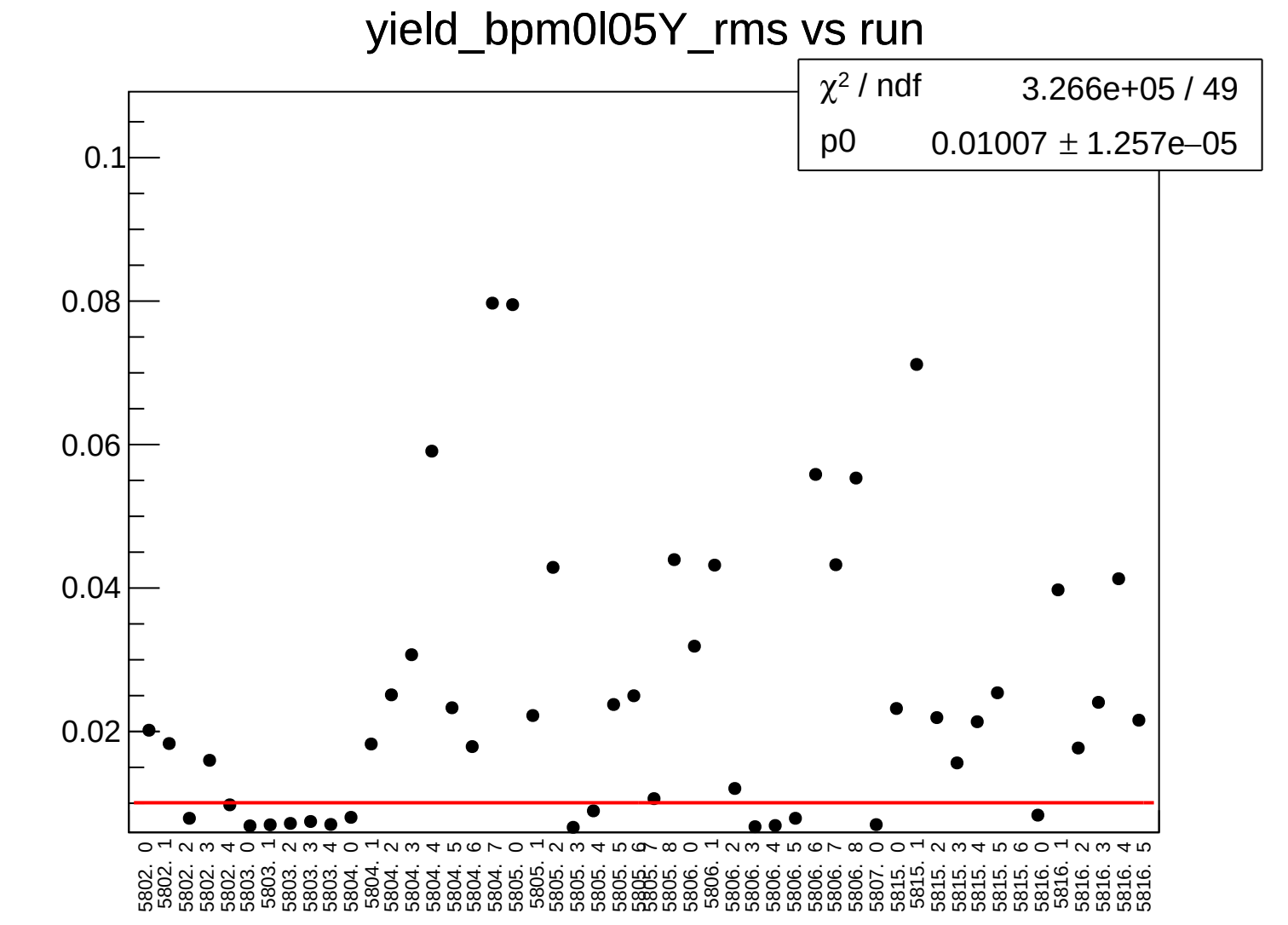

yield_bpm0l05X_mean vs run
χ² / ndf 9.43e+06 / 49
p0 0.498 ± 1.491e−05
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 50
Mean 1291
Std Dev 1262
500
0
−500
−1000
−1500
−2000

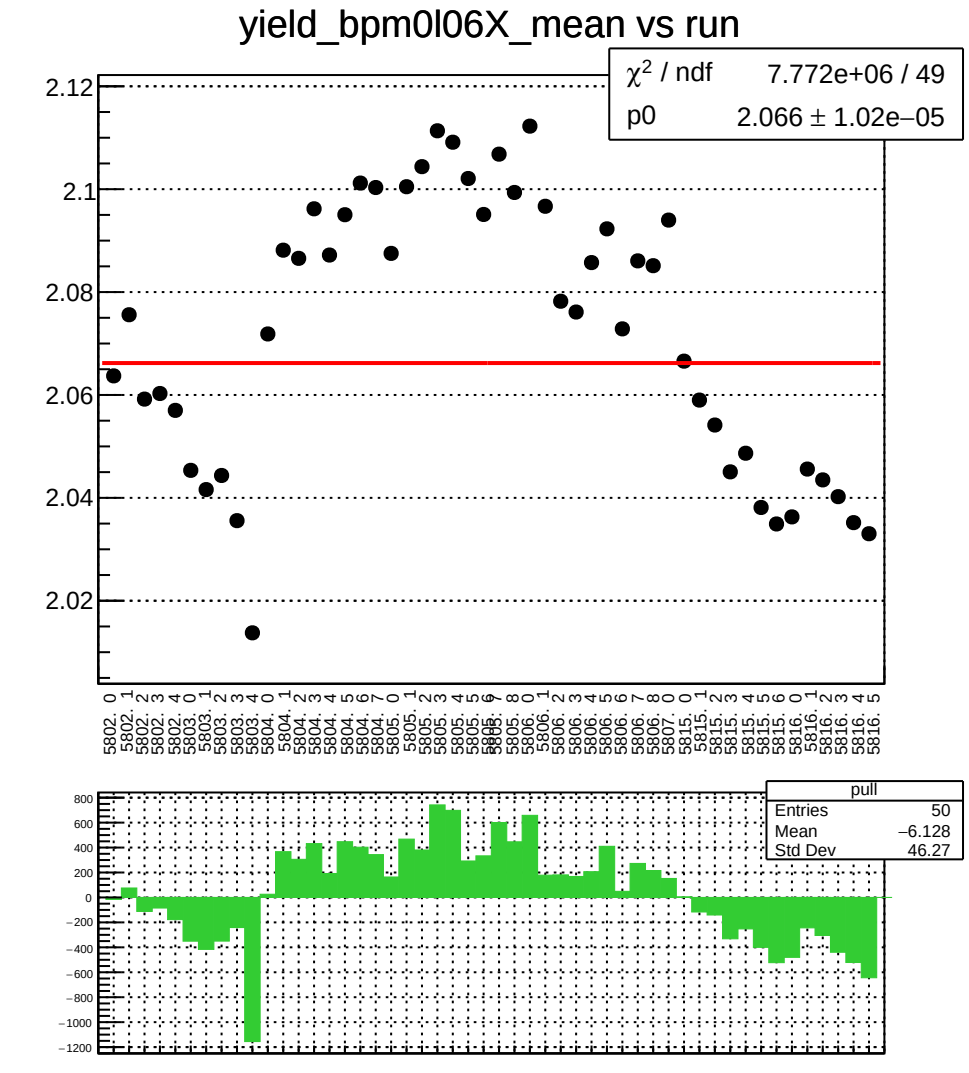

pull1D
Entries 50
Mean 6.555
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

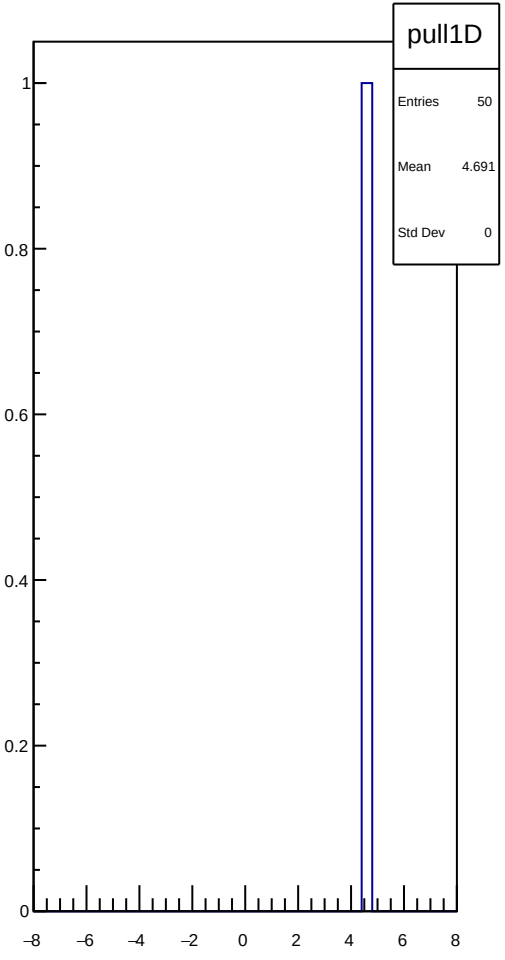

yield_bpm0l05X_rms vs run
χ² / ndf 2.413e+05 / 49
p0 0.008988 ± 1.054e−05
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

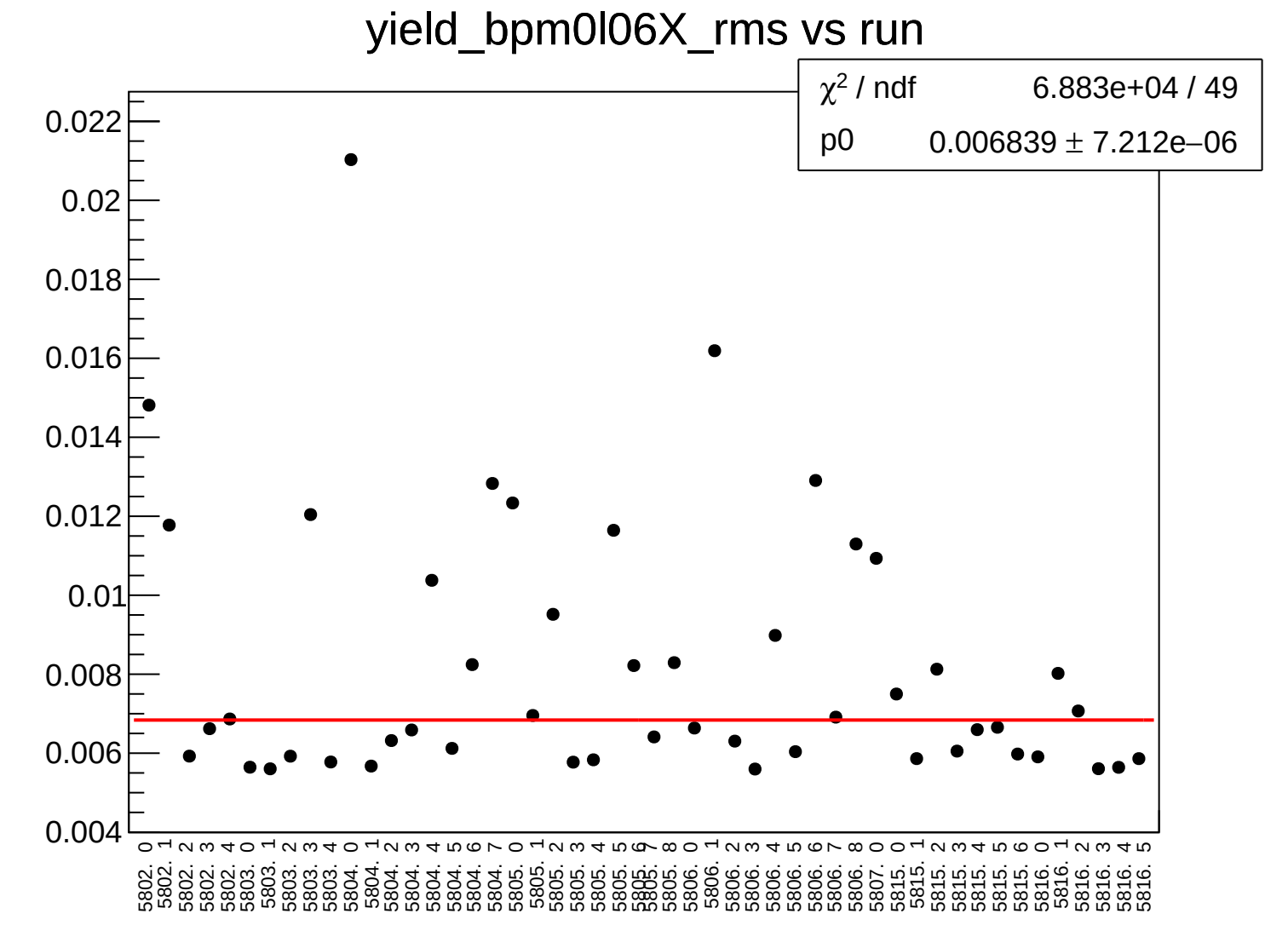

yield_bpm0l05Y_mean vs run
χ² / ndf 1.377e+07 / 49
p0 2.783 ± 1.778e−05
pull
Entries 50
Mean 47.67
Std Dev 28.24

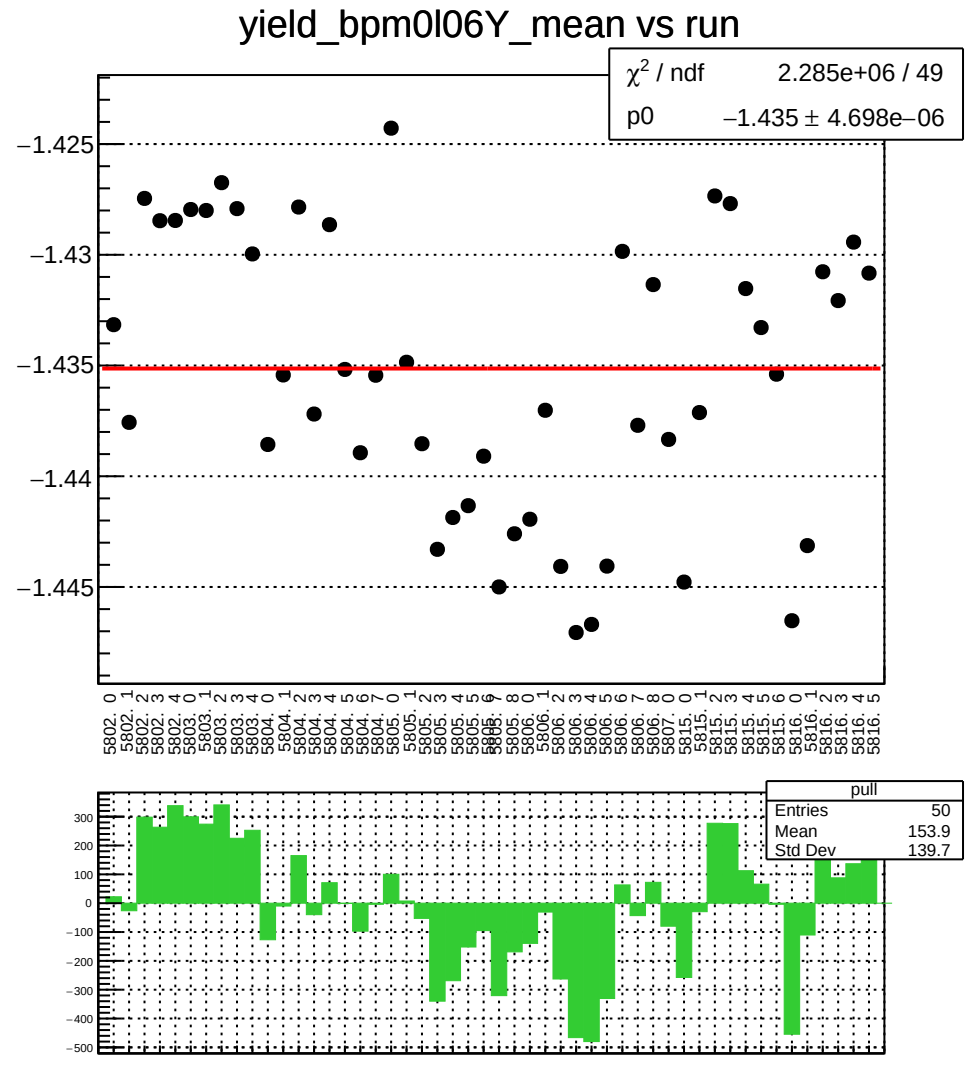

pull1D
Entries 50
Mean 0
Std Dev 0

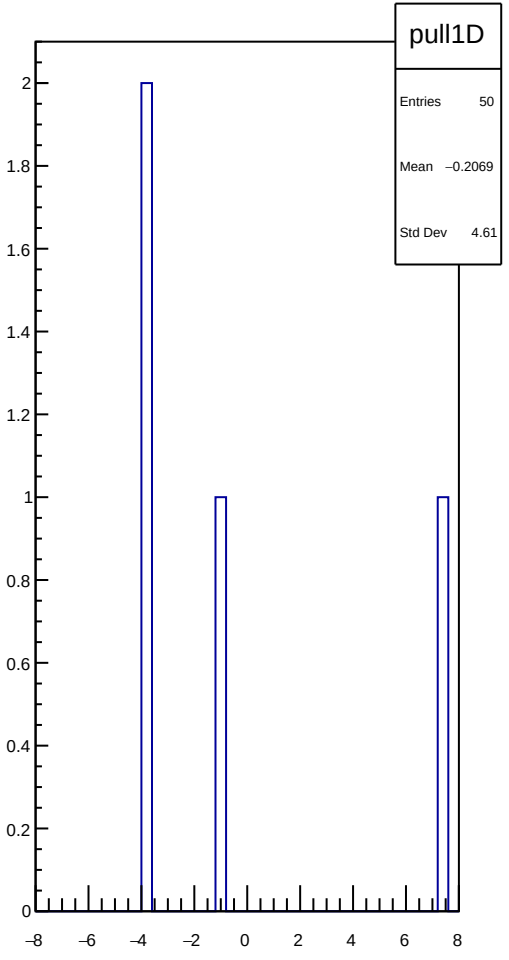

yield_bpm0l05Y_rms vs run
χ² / ndf 3.266e+05 / 49
p0 0.01007 ± 1.257e–05
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

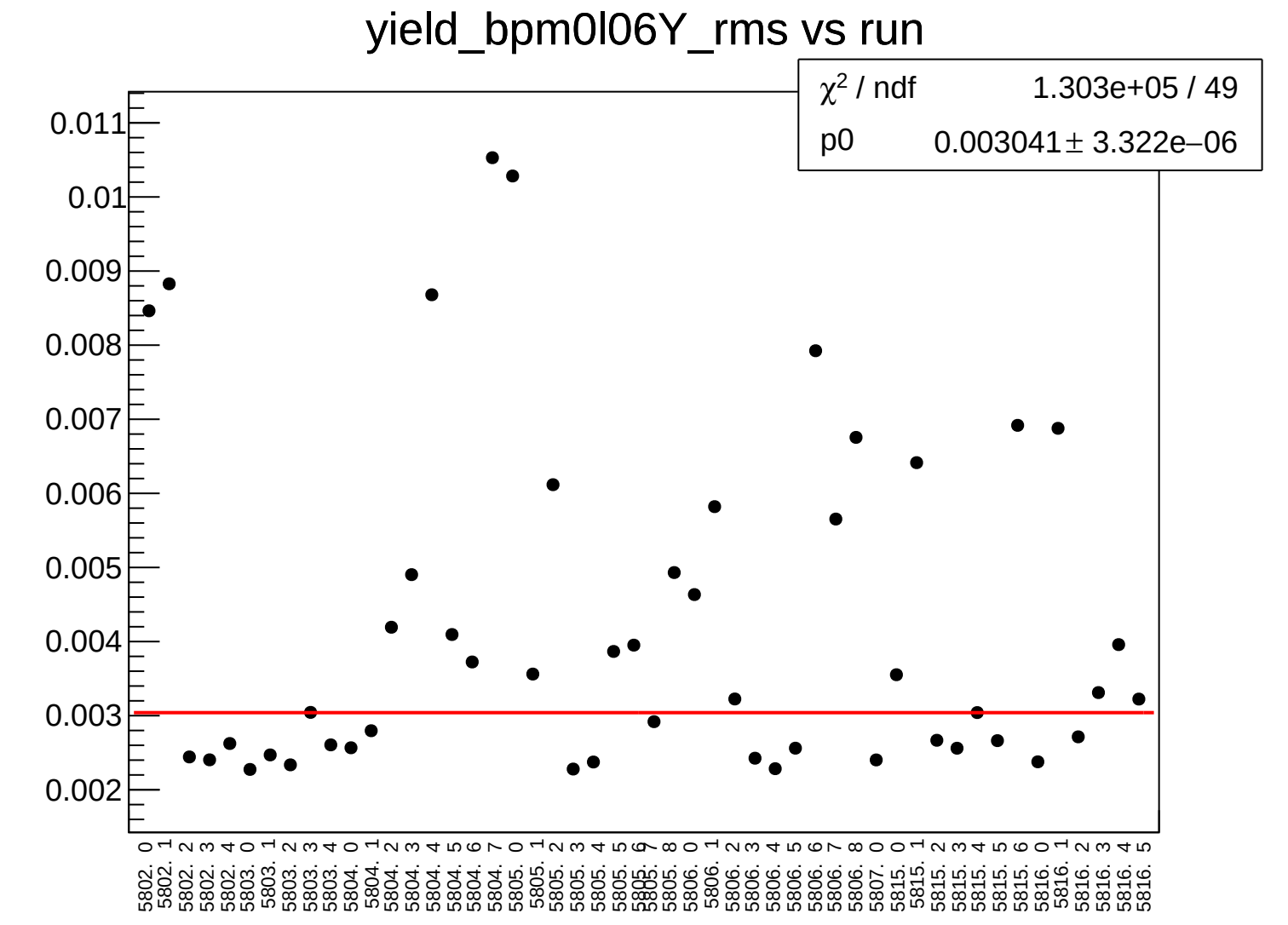

yield_bpm0l06X_mean vs run
χ² / ndf 7.772e+06 / 49
p0 2.066 ± 1.02e−05
2.12
2.1
2.08
2.06
2.04
2.02
pull
Entries 50
Mean −6.128
Std Dev 46.27
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

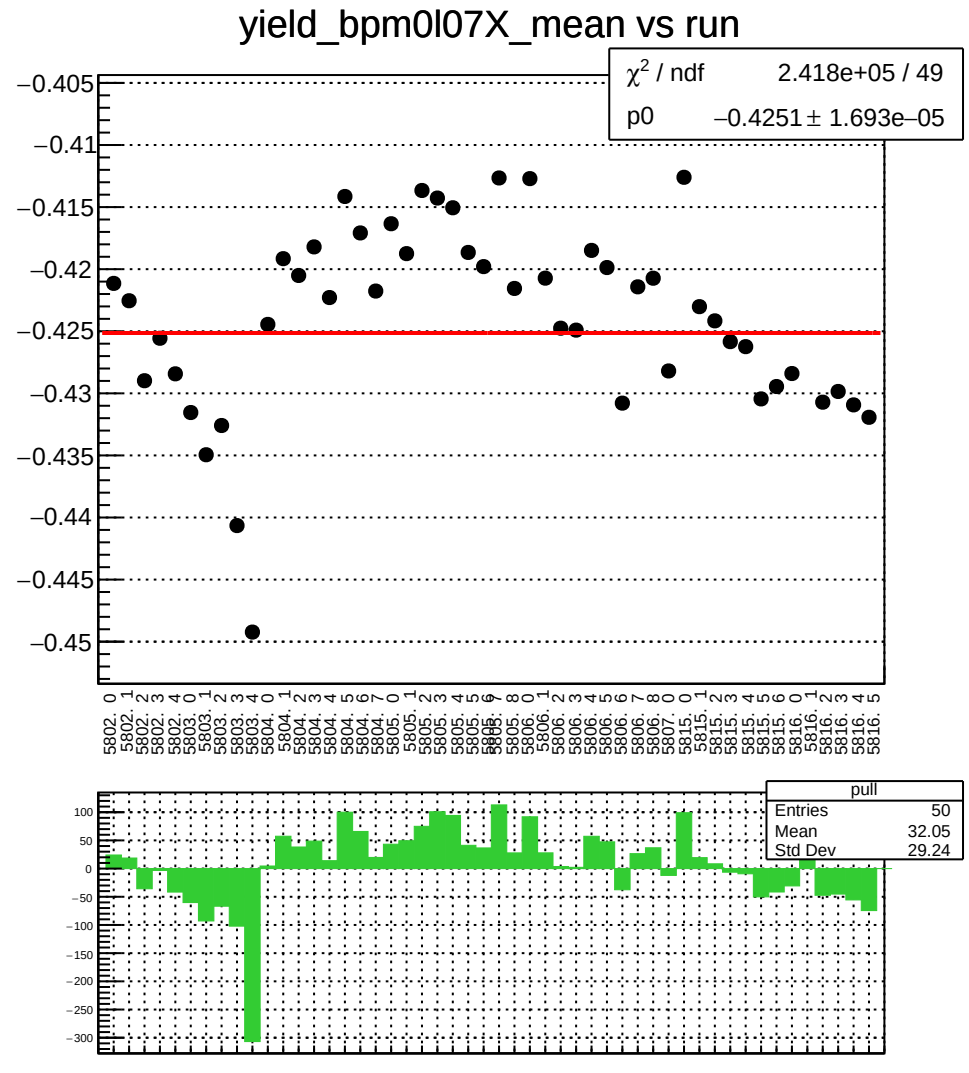

pull1D
Entries 50
Mean 4.691
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

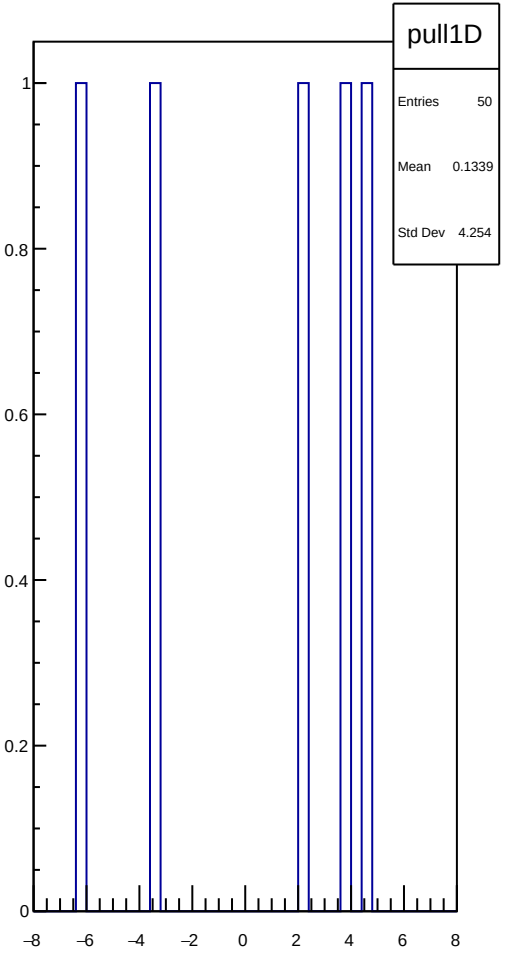

yield_bpm0l06X_rms vs run
χ² / ndf 6.883e+04 / 49
p0 0.006839 ± 7.212e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

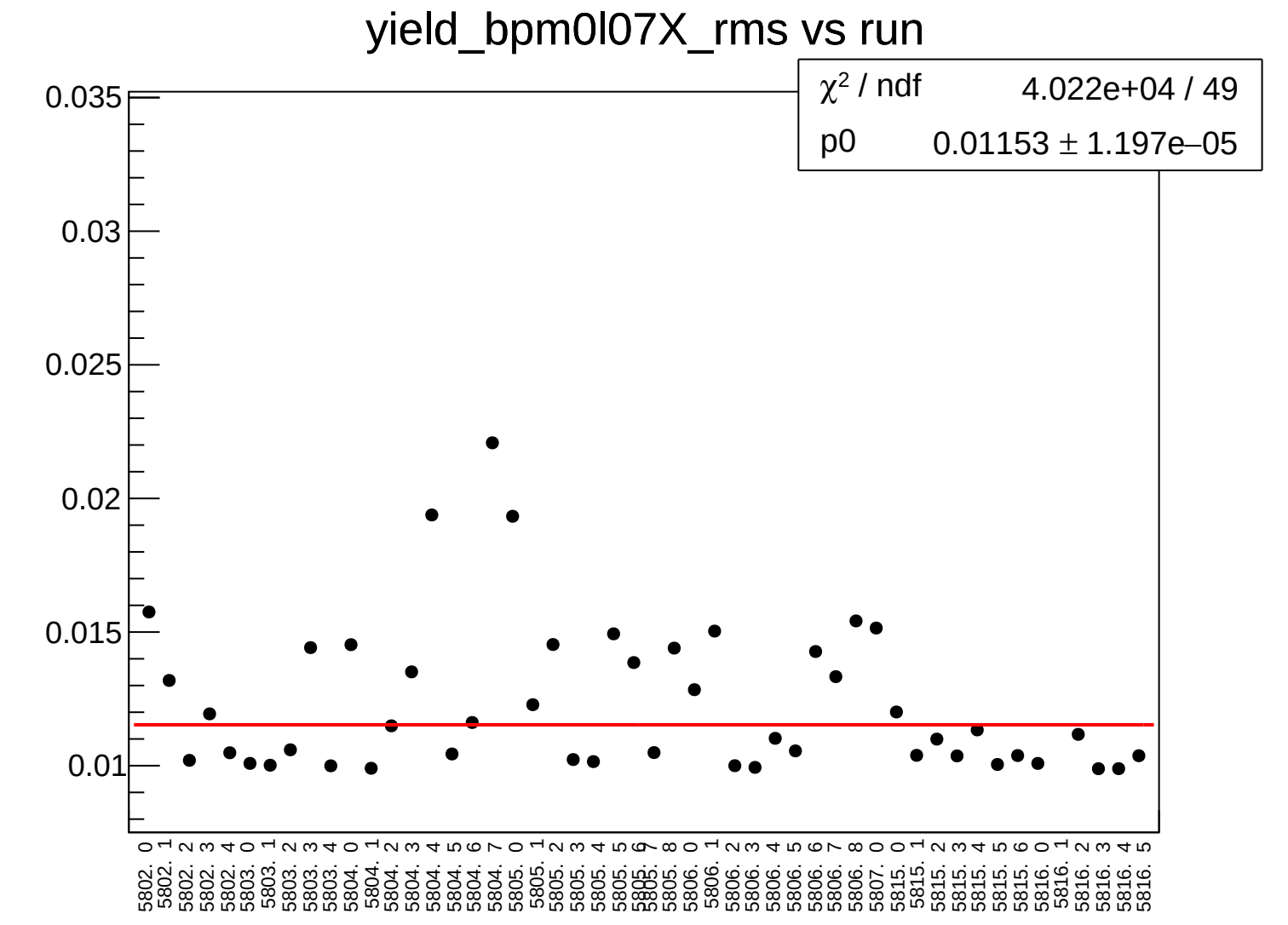

yield_bpm0l06Y_mean vs run
χ² / ndf 2.285e+06 / 49
p0 −1.435 ± 4.698e−06
−1.425
−1.43
−1.435
−1.44
−1.445
pull
Entries 50
Mean 153.9
Std Dev 139.7
300
200
100
0
−100
−200
−300
−400
−500

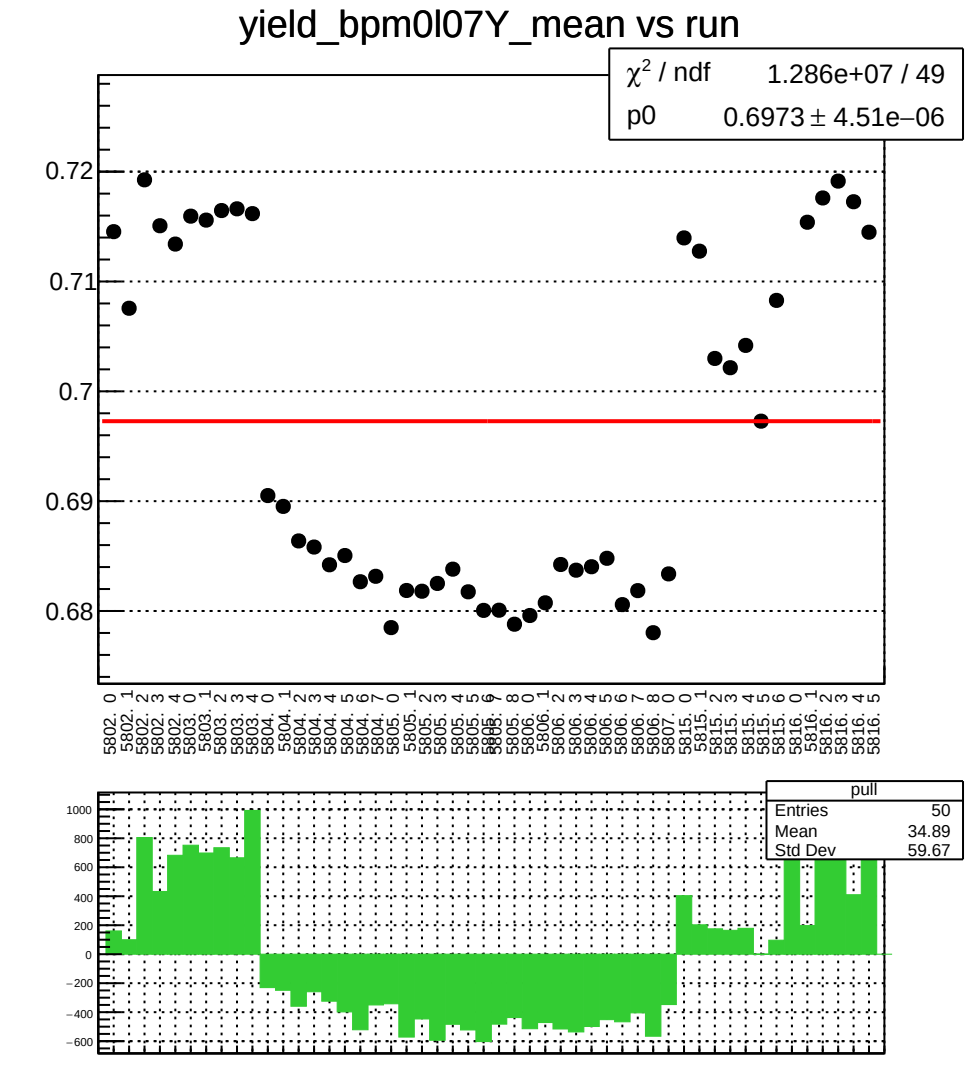

pull1D
Entries 50
Mean −0.2069
Std Dev 4.61
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

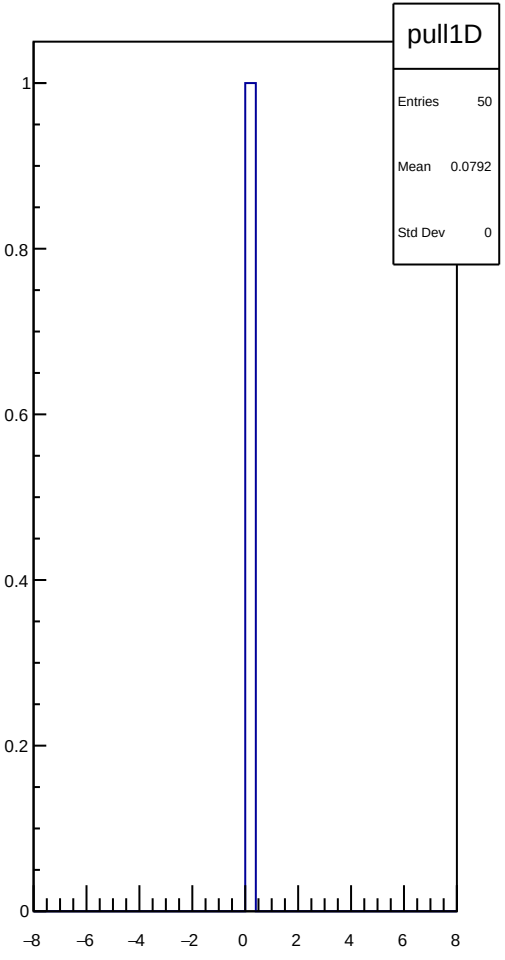

yield_bpm0l06Y_rms vs run
χ² / ndf 1.303e+05 / 49
p0 0.003041 ± 3.322e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

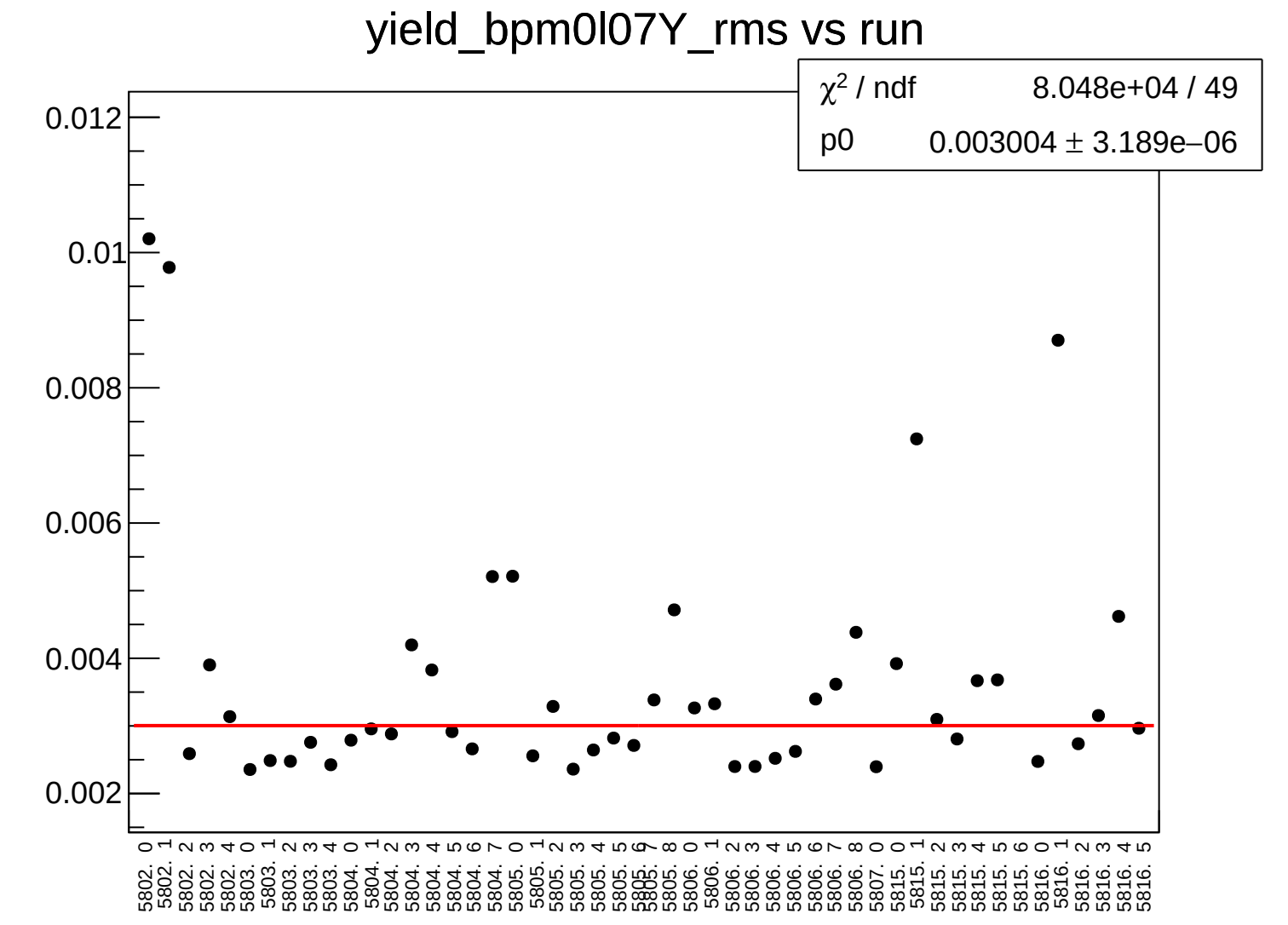

yield_bpm0l07X_mean vs run
χ² / ndf 2.418e+05 / 49
p0 −0.4251 ± 1.693e−05
pull
Entries 50
Mean 32.05
Std Dev 29.24

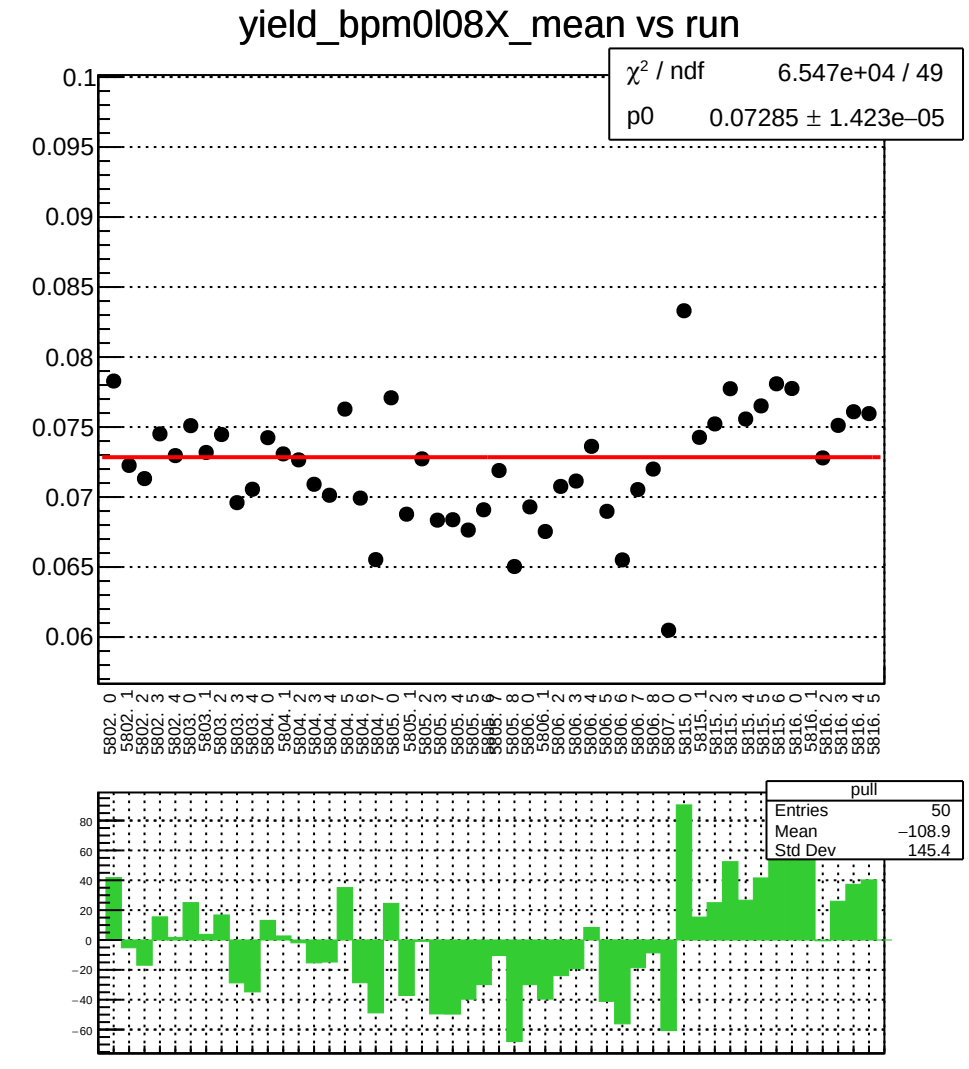

pull1D
Entries 50
Mean 0.1339
Std Dev 4.254

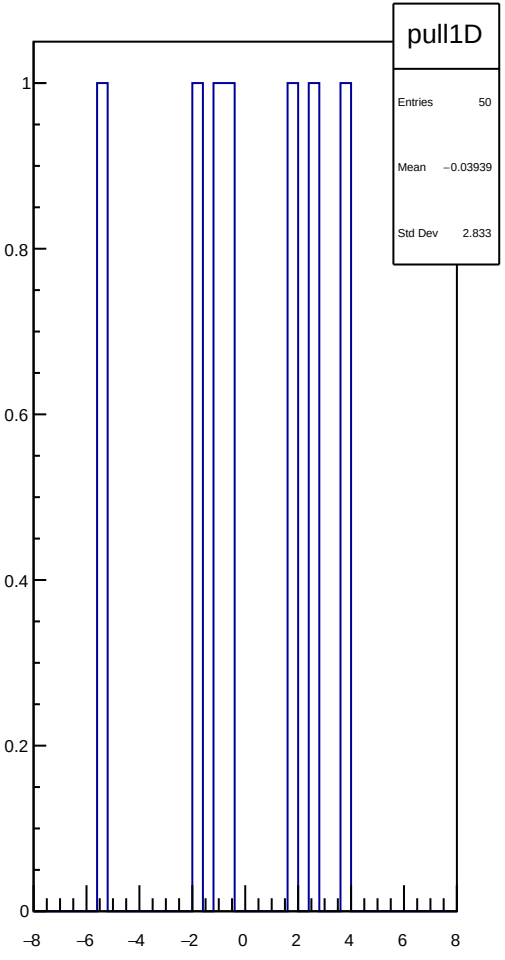

yield_bpm0l07X_rms vs run
χ² / ndf 4.022e+04 / 49
p0 0.01153 ± 1.197e–05
0.035
0.03
0.025
0.02
0.015
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

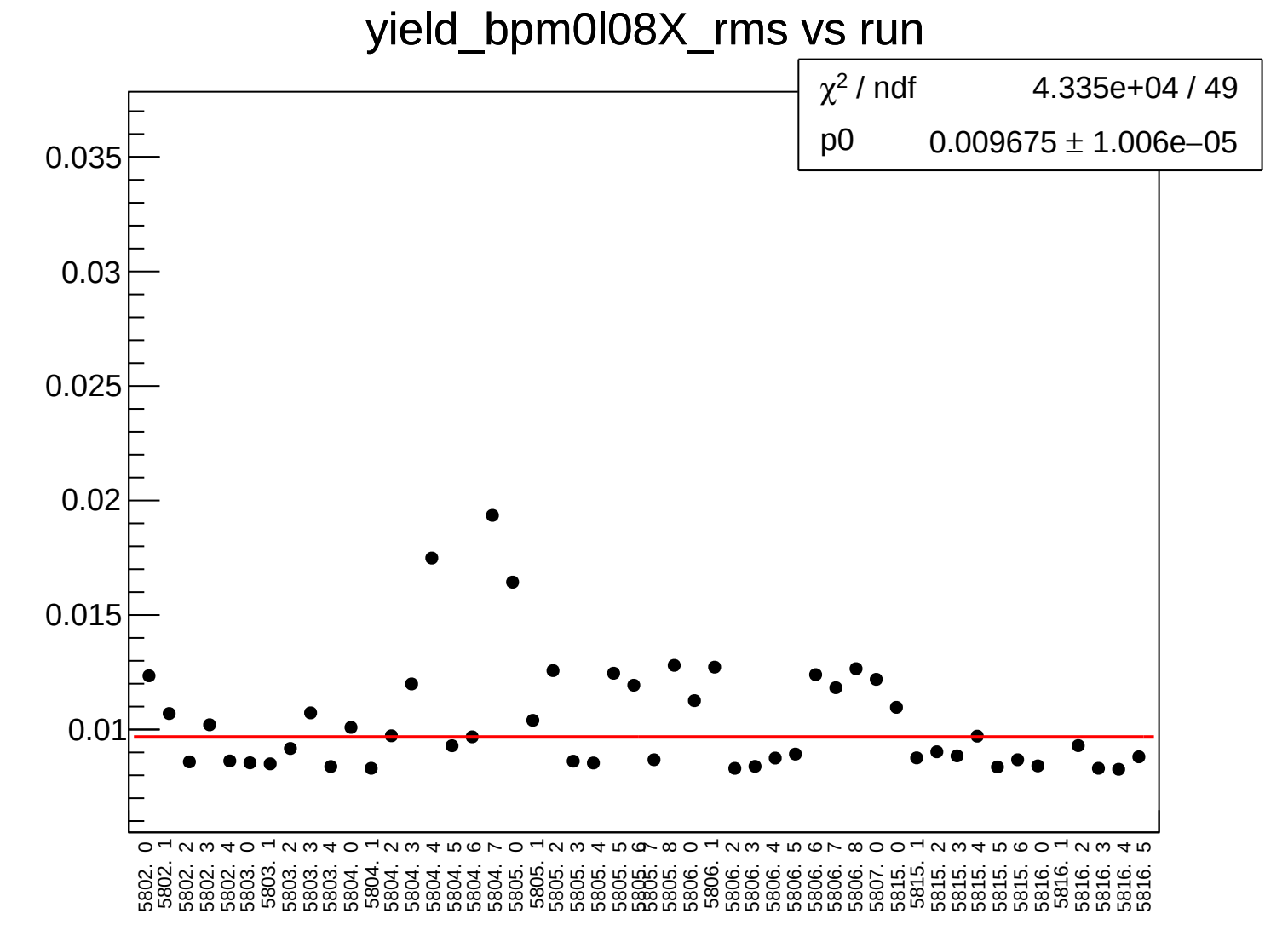

yield_bpm0l07Y_mean vs run
χ² / ndf 1.286e+07 / 49
p0 0.6973 ± 4.51e−06
0.72
0.71
0.7
0.69
0.68
pull
Entries 50
Mean 34.89
Std Dev 59.67
1000
800
600
400
200
0
−200
−400
−600

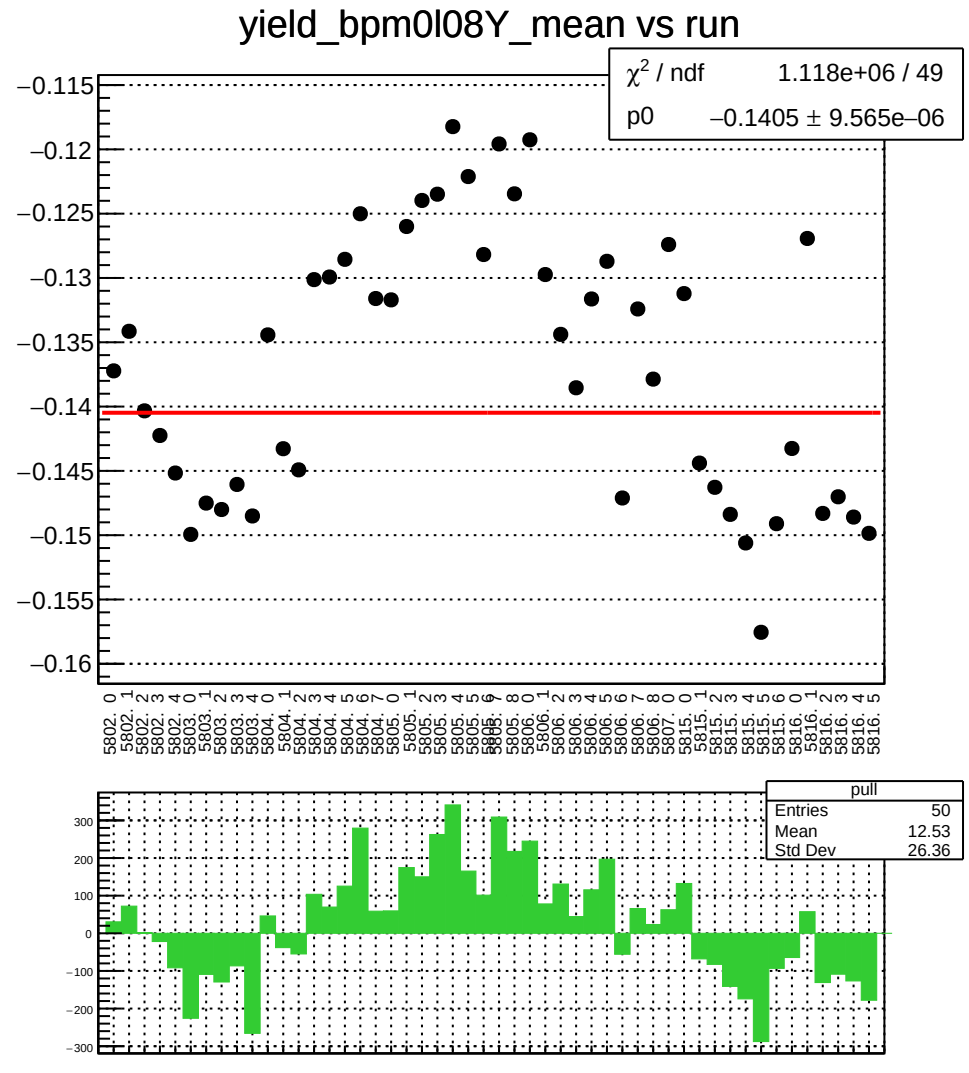

pull1D
Entries 50
Mean 0.0792
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

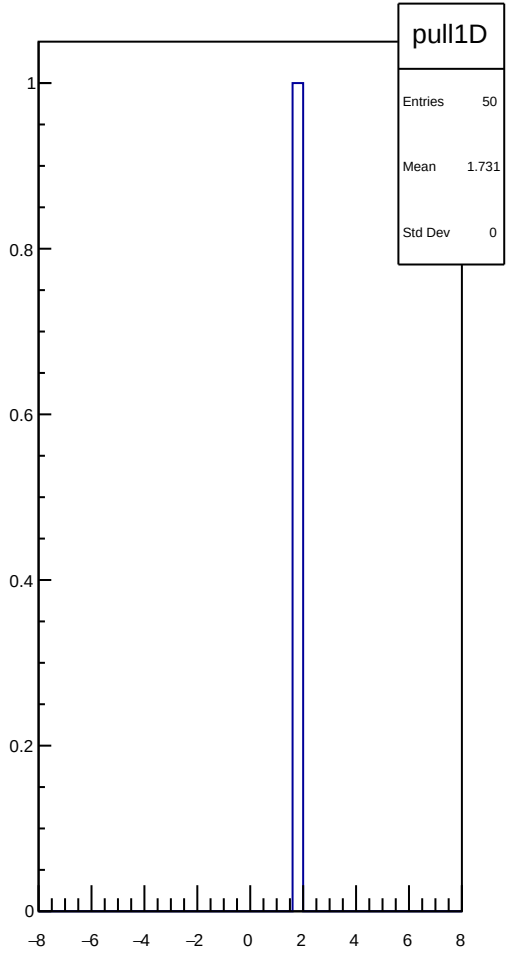

yield_bpm0l07Y_rms vs run
χ² / ndf 8.048e+04 / 49
p0 0.003004 ± 3.189e−06
0.012
0.01
0.008
0.006
0.004
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

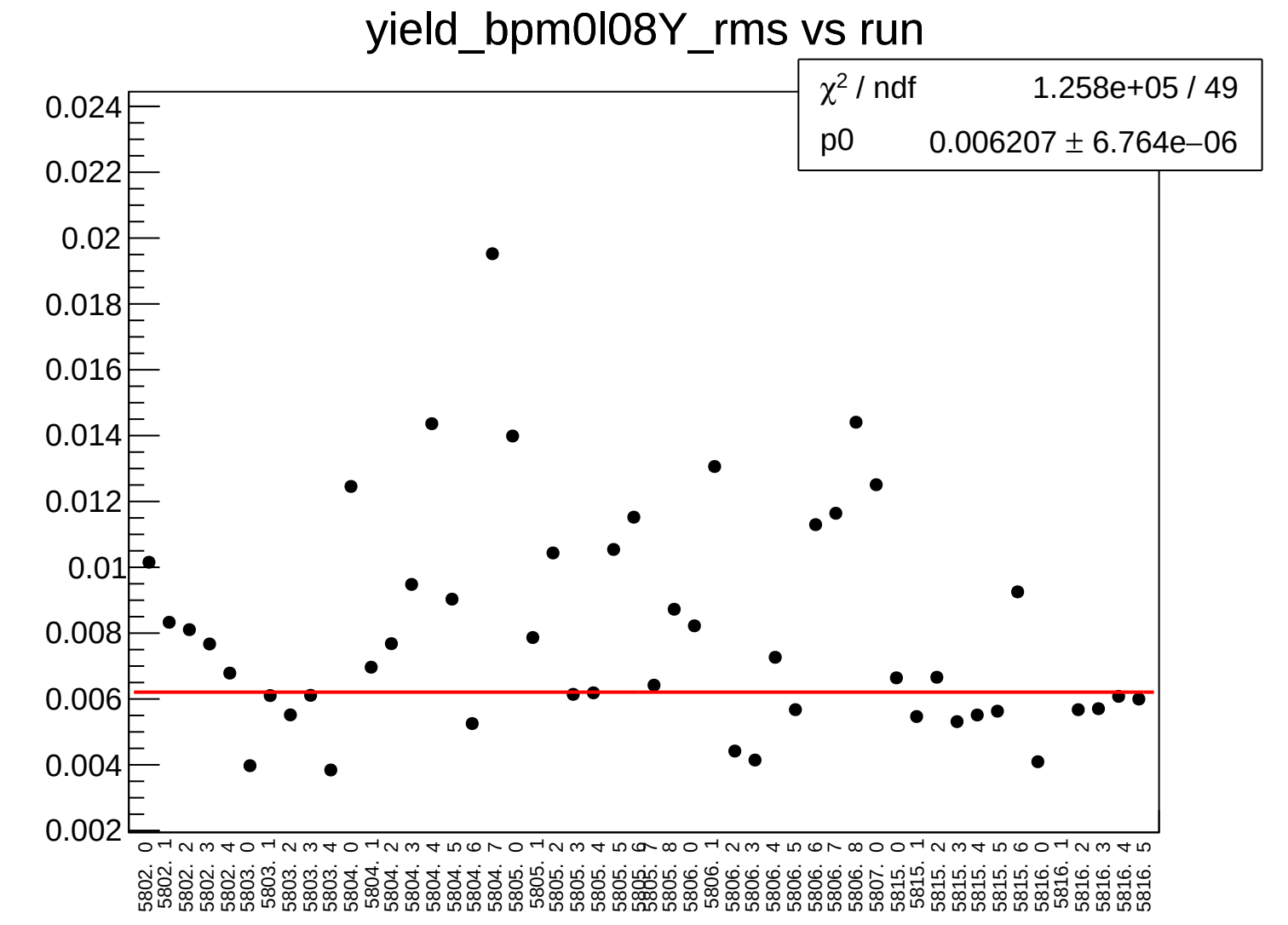

yield_bpm0l08X_mean vs run
χ² / ndf 6.547e+04 / 49
p0 0.07285 ± 1.423e−05
pull
Entries 50
Mean −108.9
Std Dev 145.4

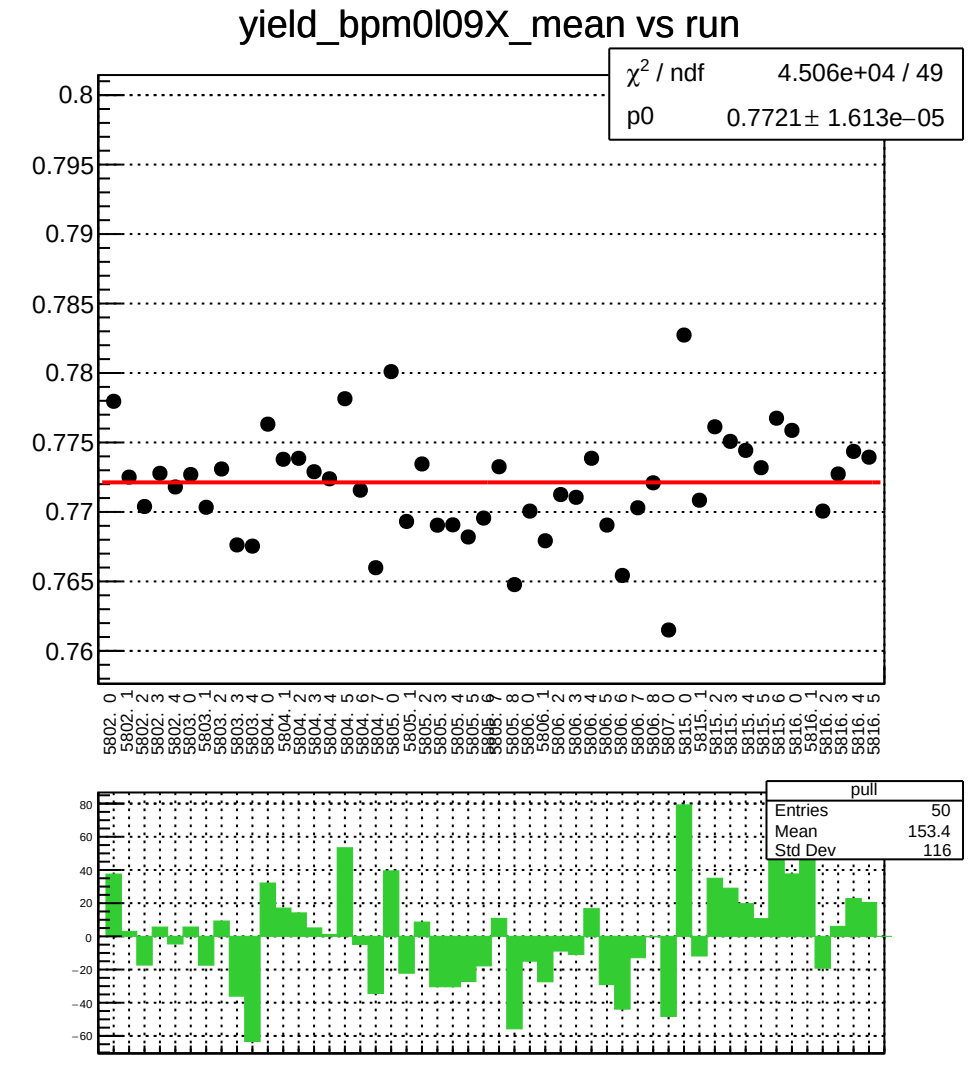

pull1D
Entries 50
Mean −0.03939
Std Dev 2.833

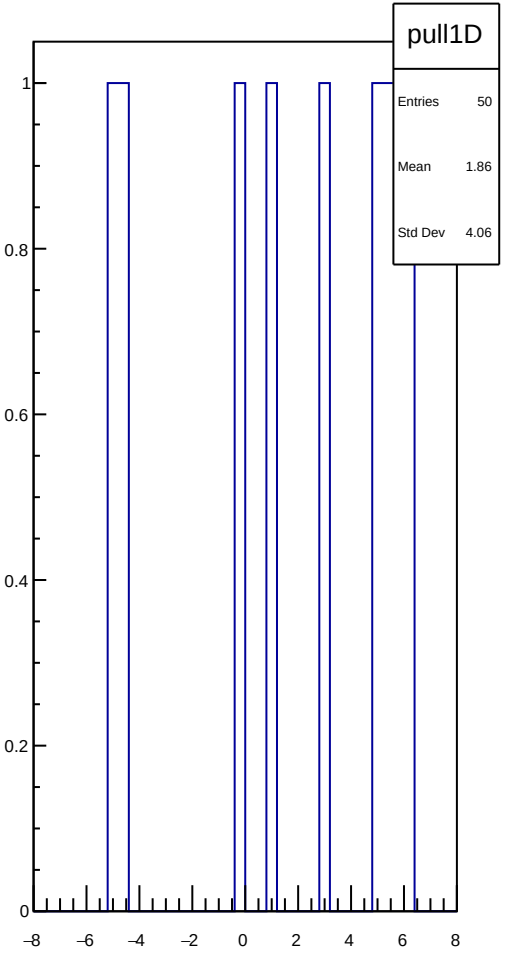

yield_bpm0l08X_rms vs run
χ² / ndf 4.335e+04 / 49
p0 0.009675 ± 1.006e−05
0.035
0.03
0.025
0.02
0.015
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

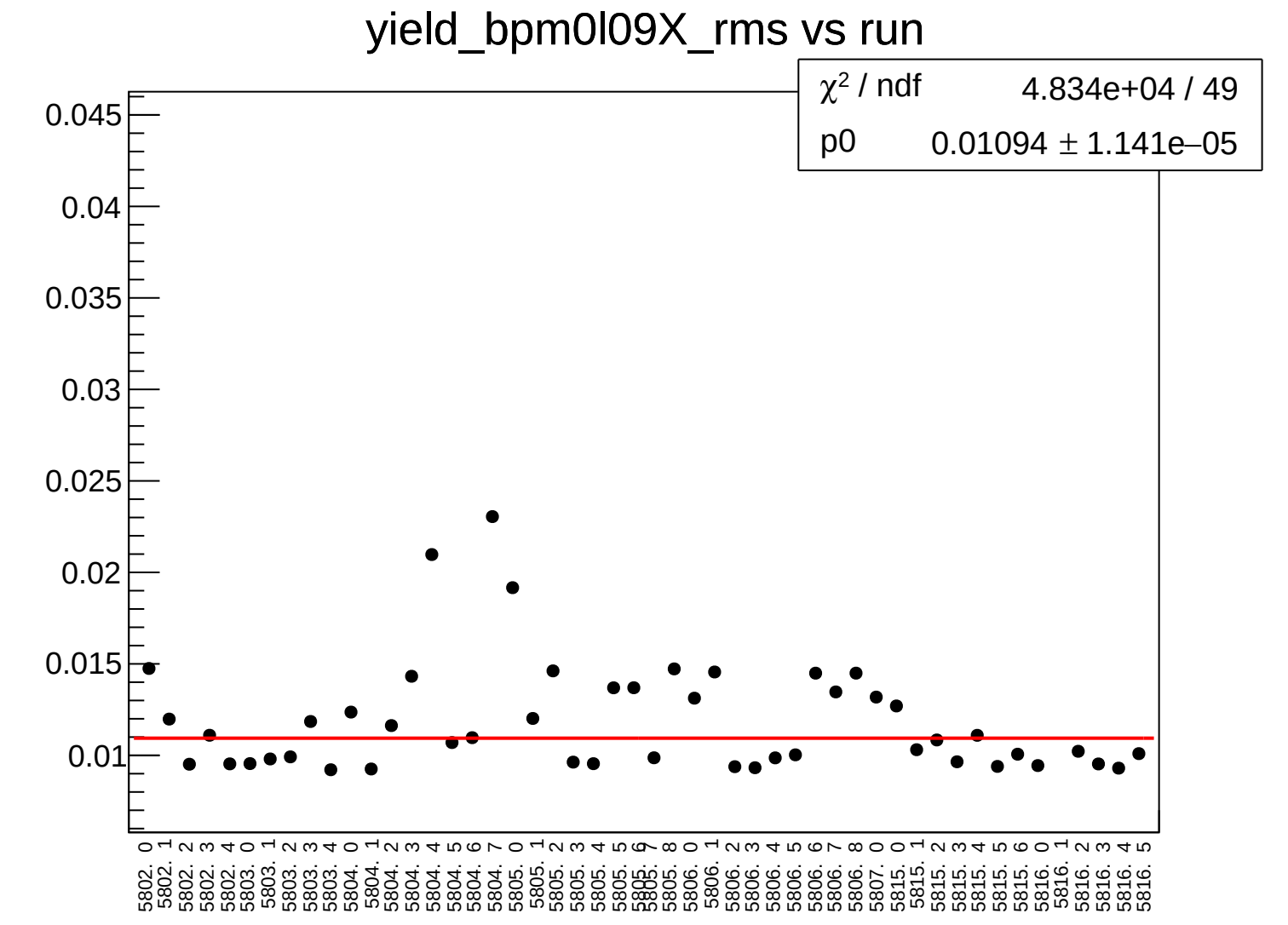

yield_bpm0l08Y_mean vs run
χ² / ndf 1.118e+06 / 49
p0 −0.1405 ± 9.565e−06
pull
Entries 50
Mean 12.53
Std Dev 26.36

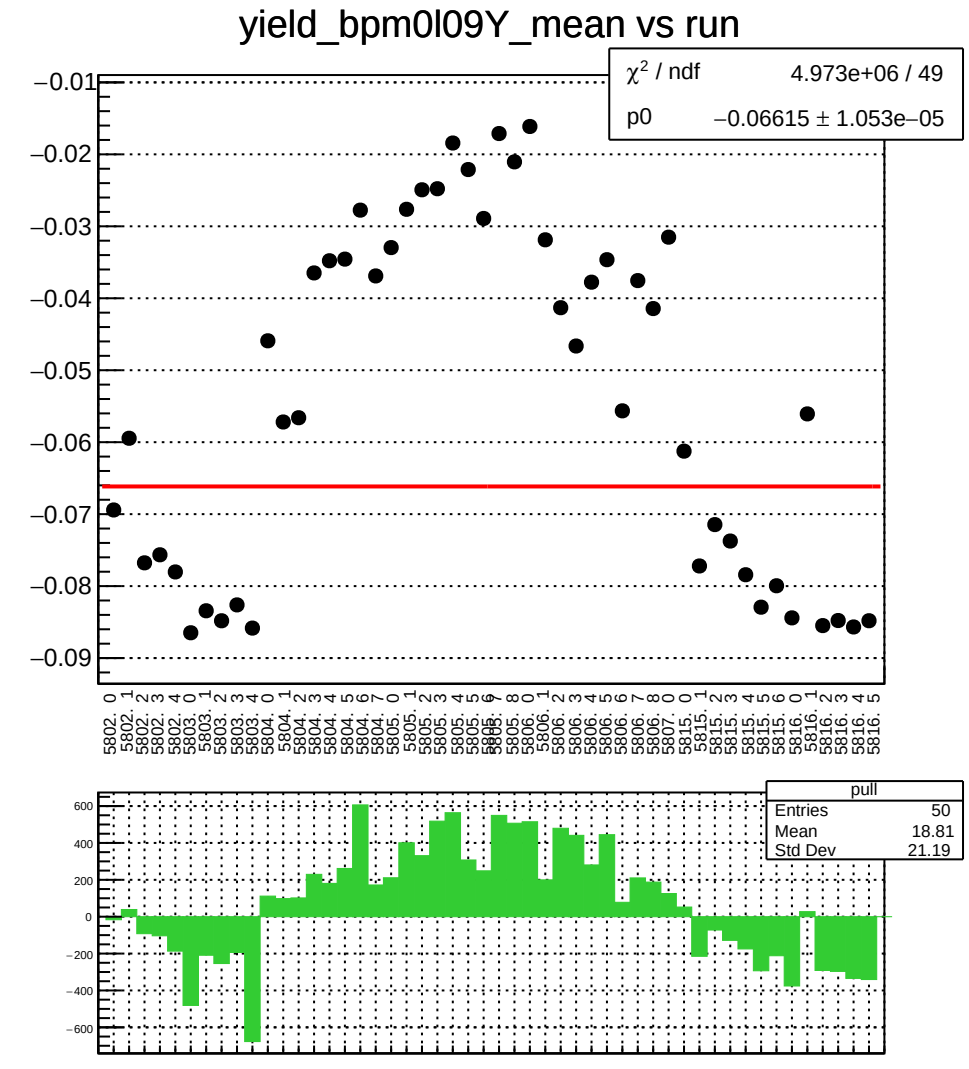

pull1D
Entries 50
Mean 1.731
Std Dev 0

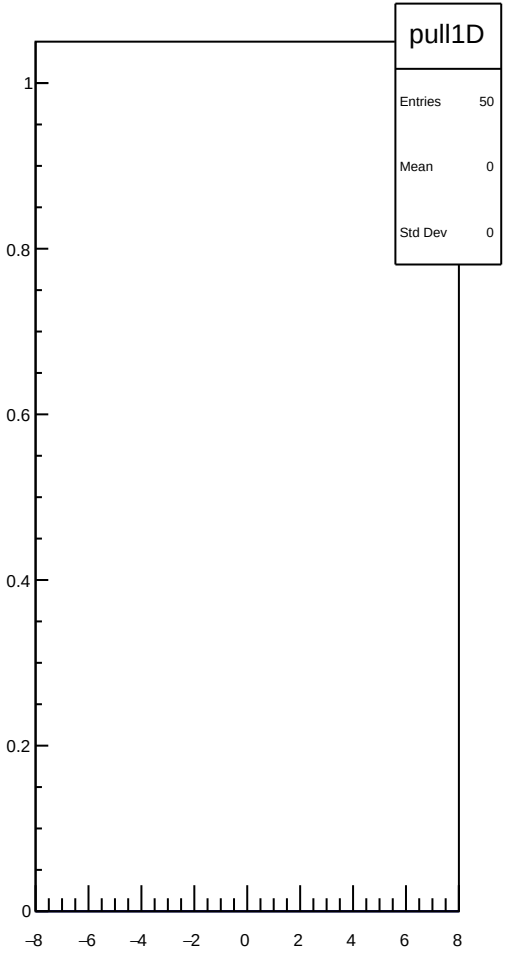

yield_bpm0l08Y_rms vs run
χ² / ndf 1.258e+05 / 49
p0 0.006207 ± 6.764e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

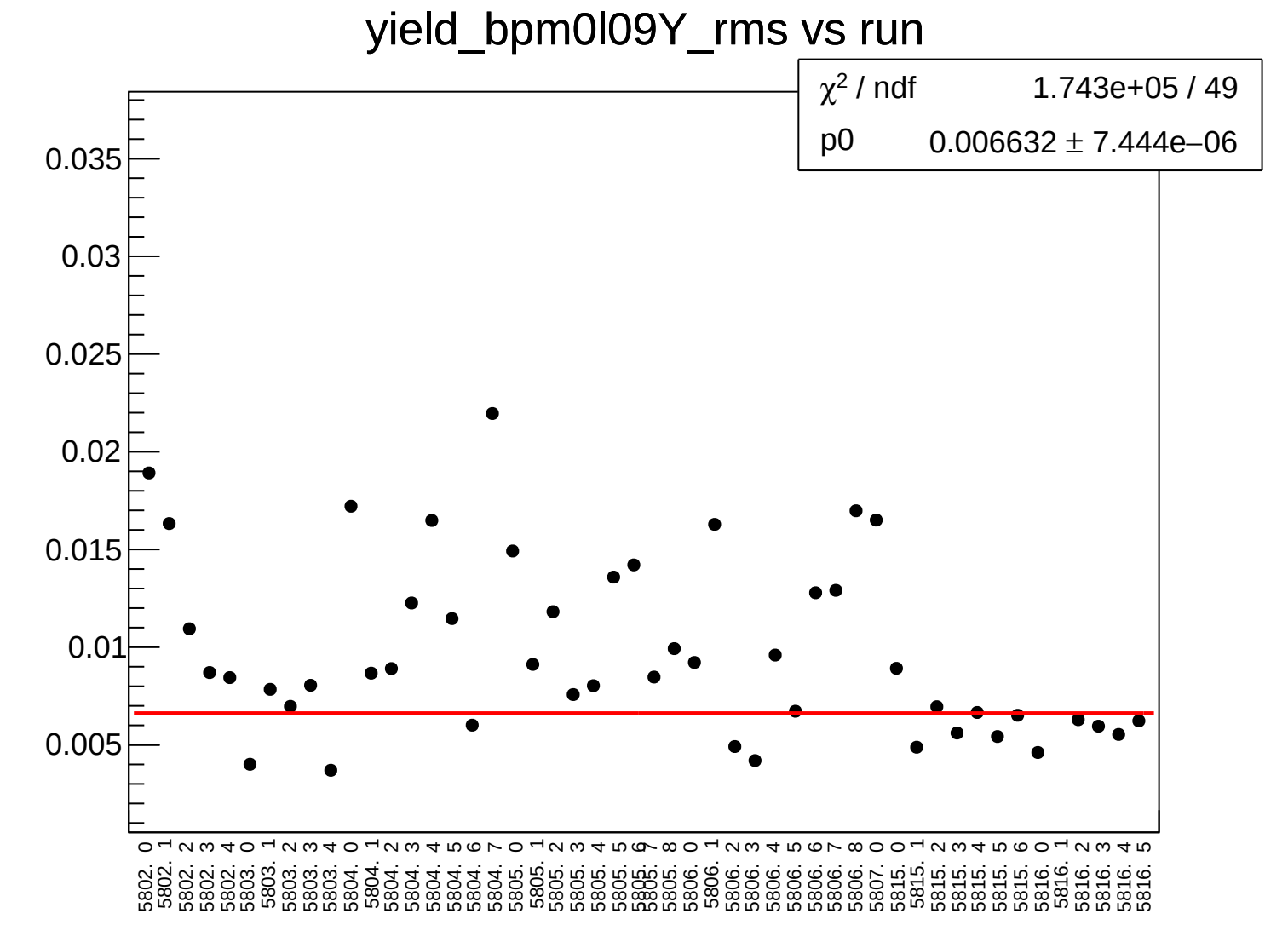

yield_bpm0l09X_mean vs run
χ² / ndf 4.506e+04 / 49
p0 0.7721 ± 1.613e−05
0.8
0.795
0.79
0.785
0.78
0.775
0.77
0.765
0.76
pull
Entries 50
Mean 153.4
Std Dev 116
80
60
40
20
0
−20
−40
−60

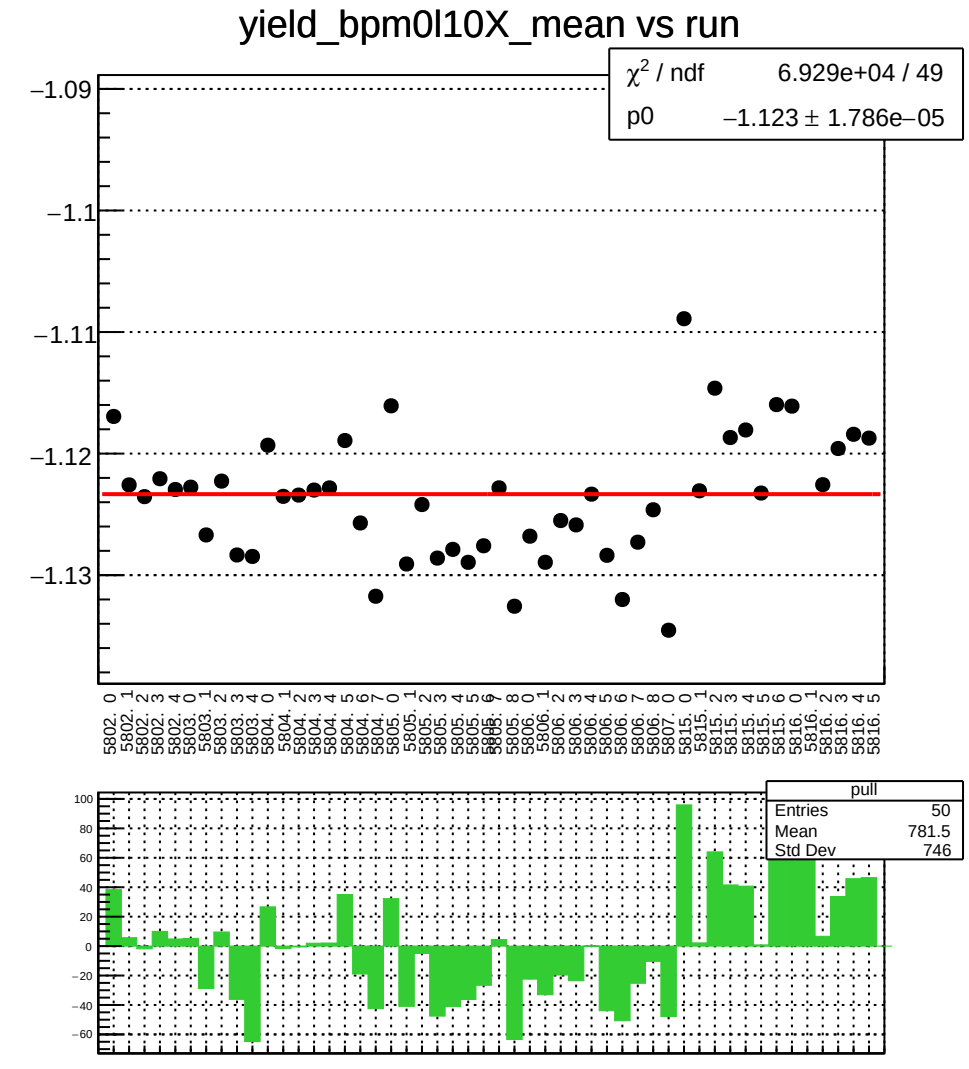

pull1D
Entries 50
Mean 1.86
Std Dev 4.06
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

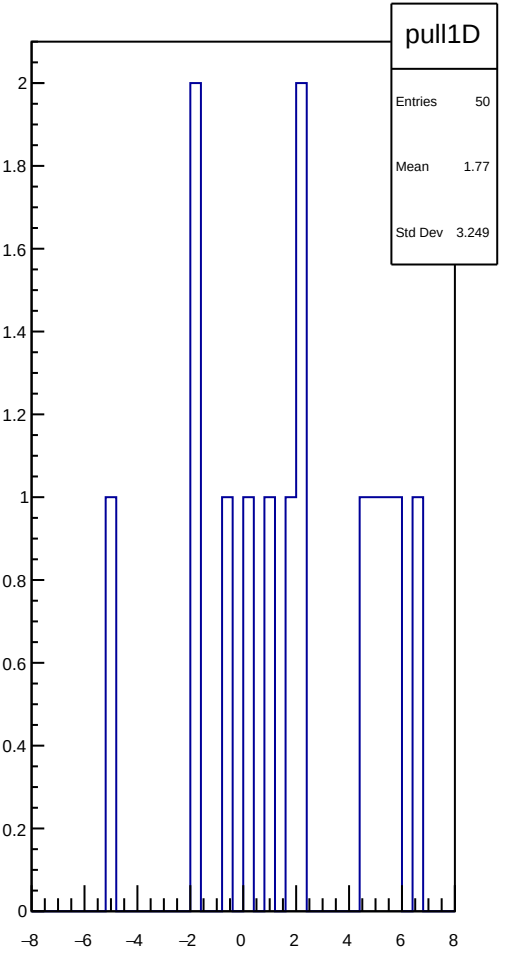

yield_bpm0l09X_rms vs run
χ² / ndf 4.834e+04 / 49
p0 0.01094 ± 1.141e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

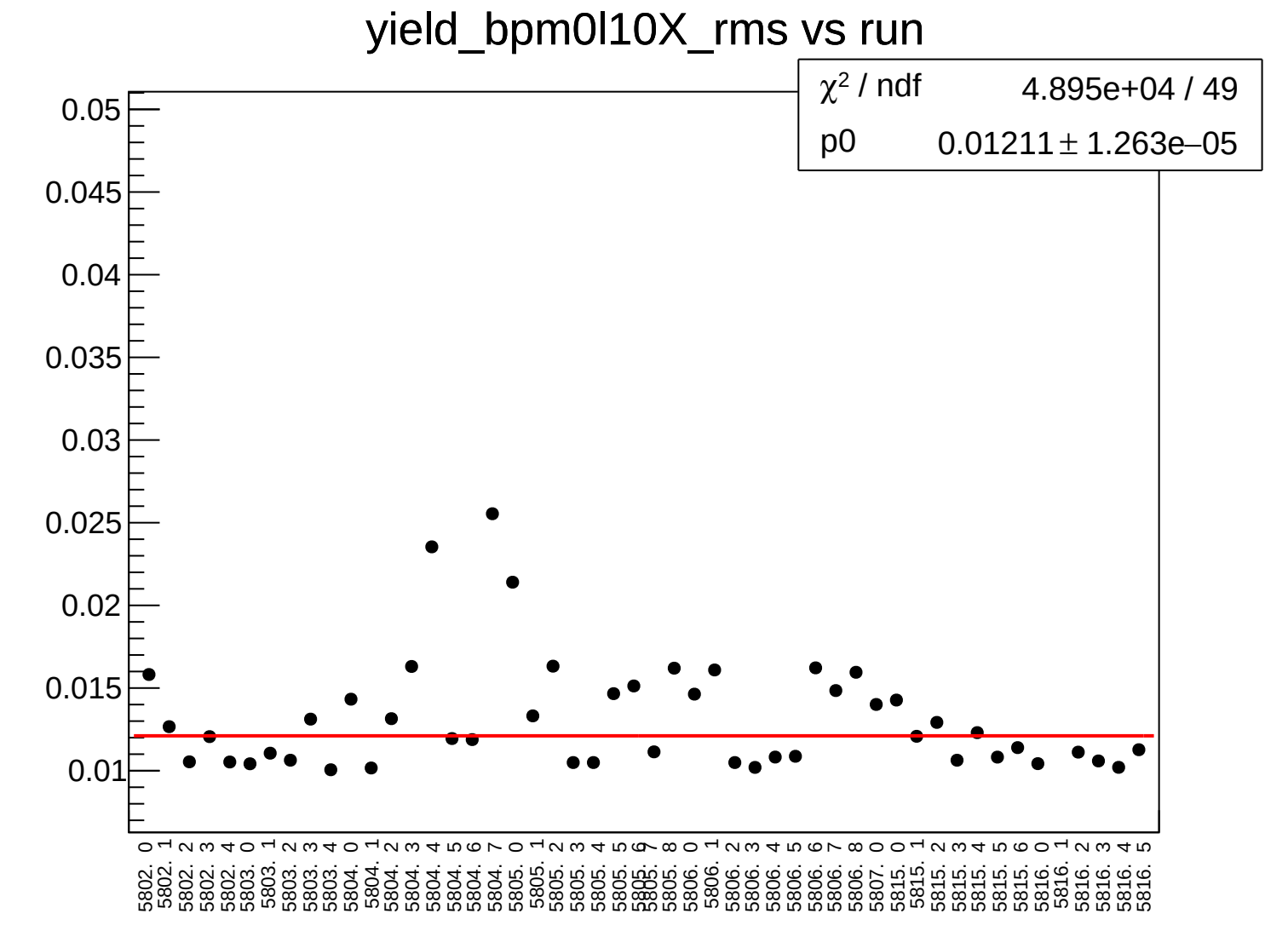

yield_bpm0l09Y_mean vs run
χ² / ndf 4.973e+06 / 49
p0 −0.06615 ± 1.053e−05
pull
Entries 50
Mean 18.81
Std Dev 21.19

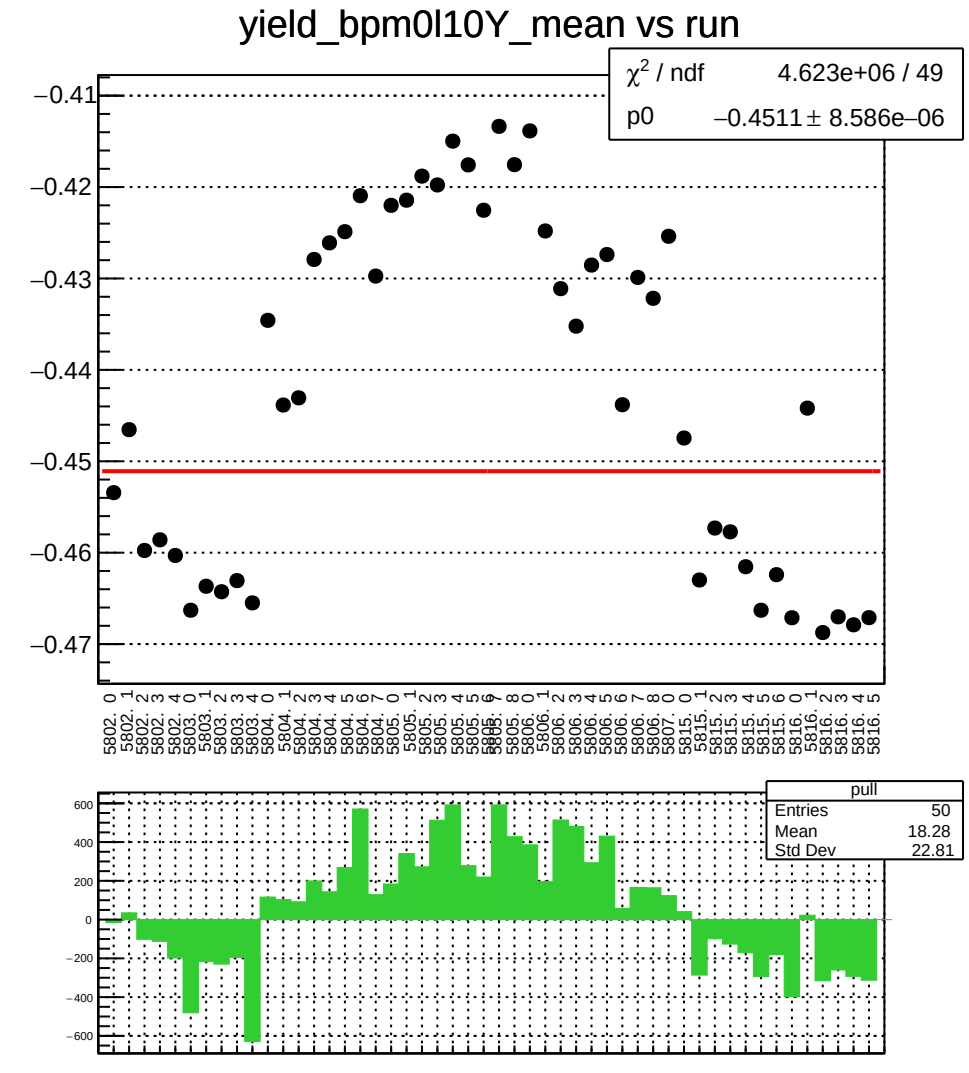

pull1D
Entries 50
Mean 0
Std Dev 0

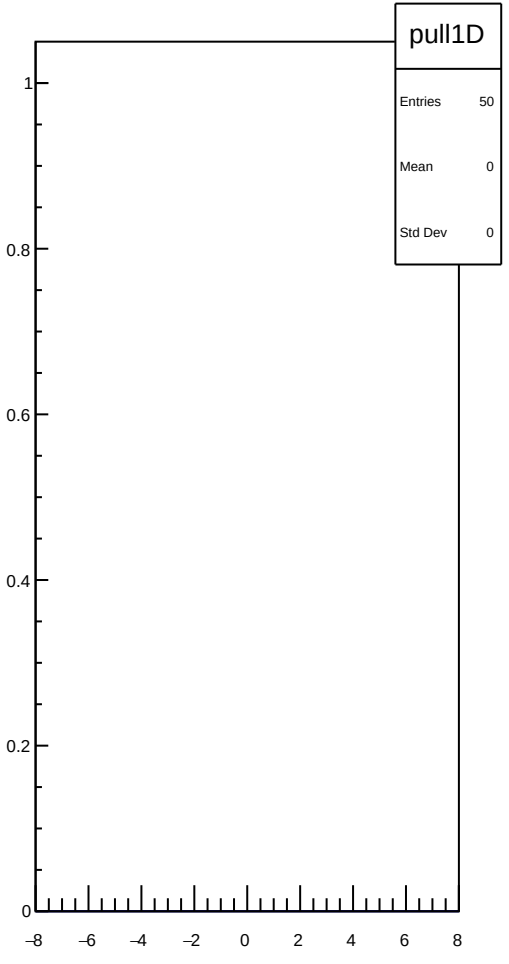

yield_bpm0l09Y_rms vs run
χ² / ndf 1.743e+05 / 49
p0 0.006632 ± 7.444e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

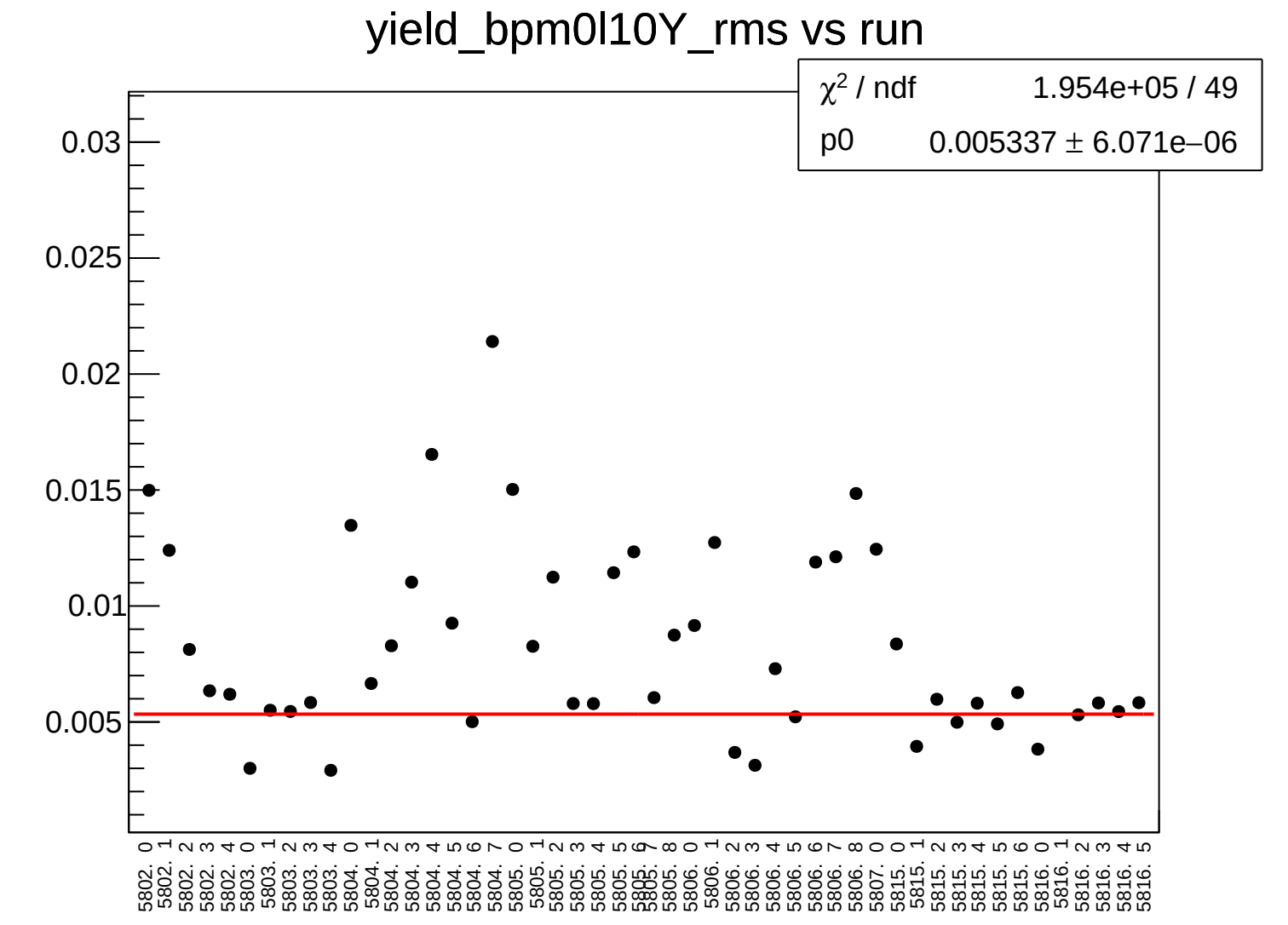

yield_bpm0l10X_mean vs run
χ² / ndf 6.929e+04 / 49
p0 −1.123 ± 1.786e−05
−1.09
−1.1
−1.11
−1.12
−1.13
pull
Entries 50
Mean 781.5
Std Dev 746

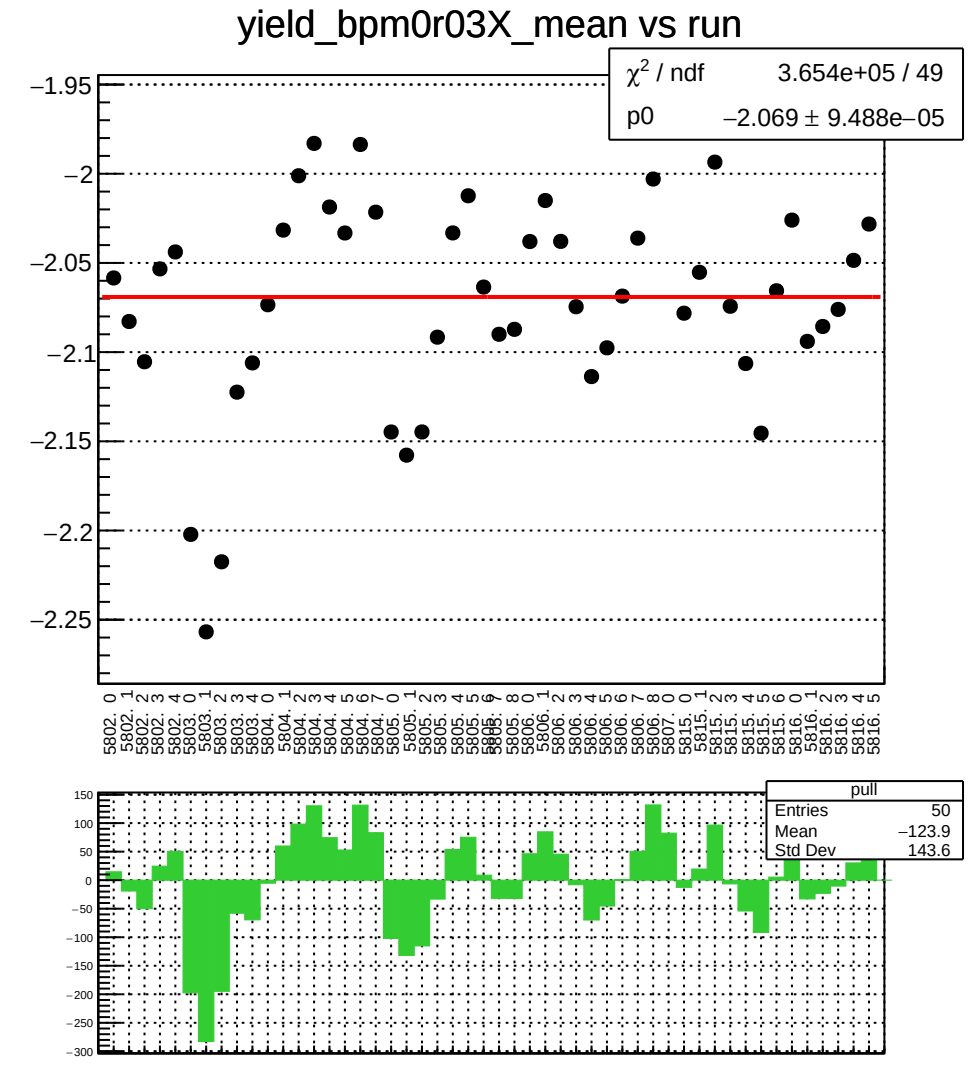

pull1D
Entries 50
Mean 1.77
Std Dev 3.249

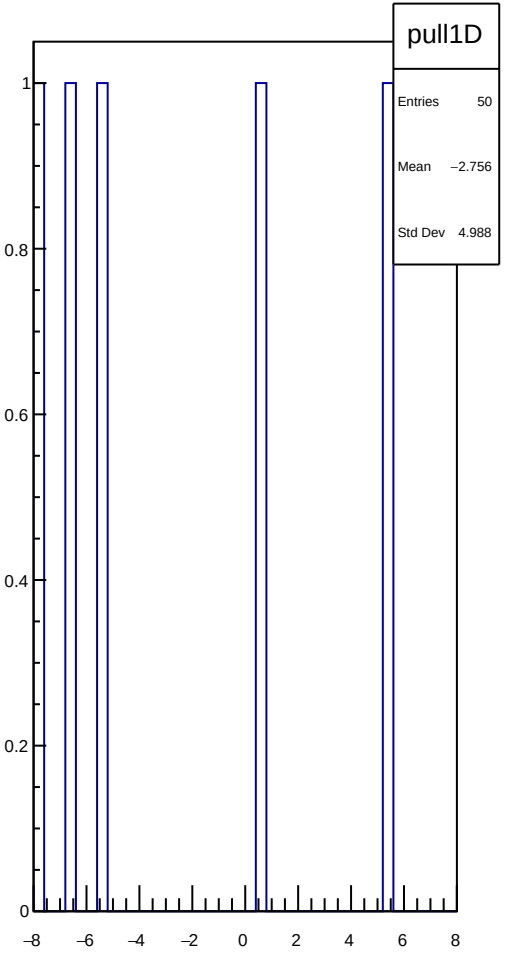

yield_bpm0l10X_rms vs run
χ² / ndf 4.895e+04 / 49
p0 0.01211 ± 1.263e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

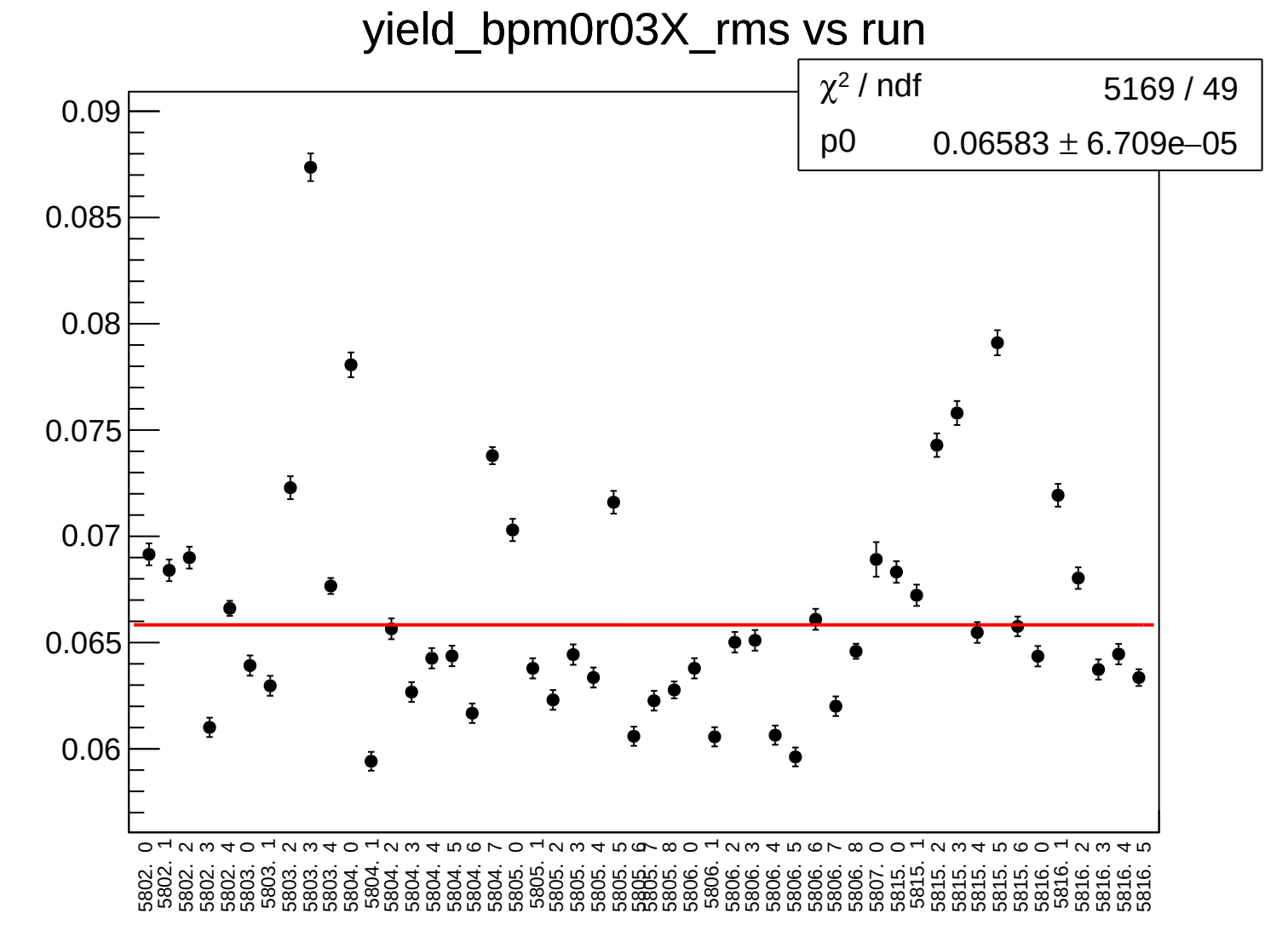

yield_bpm0l10Y_mean vs run
χ² / ndf 4.623e+06 / 49
p0 −0.4511 ± 8.586e−06
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
pull
Entries 50
Mean 18.28
Std Dev 22.81
600
400
200
0
−200
−400
−600

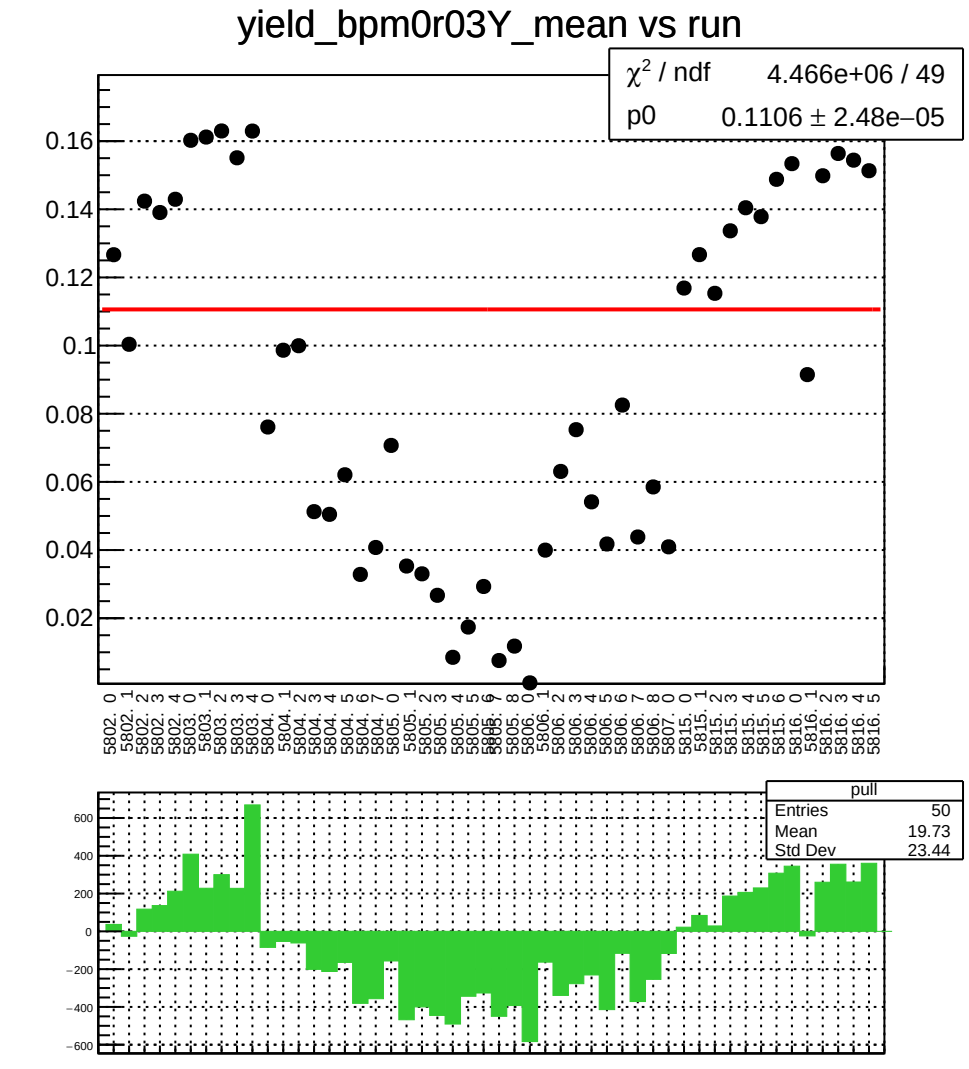

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

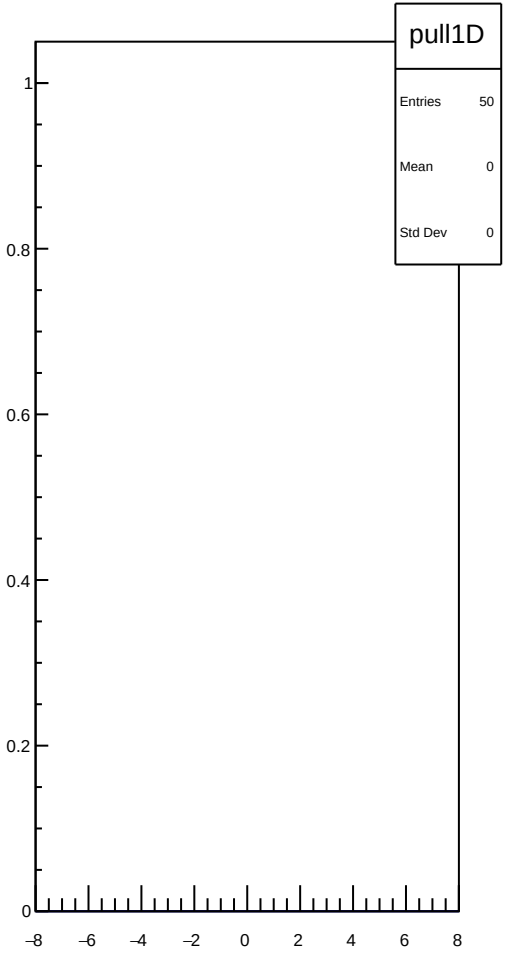

yield_bpm0l10Y_rms vs run
χ² / ndf 1.954e+05 / 49
p0 0.005337 ± 6.071e−06
0.03
0.025
0.02
0.015
0.01
0.005
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

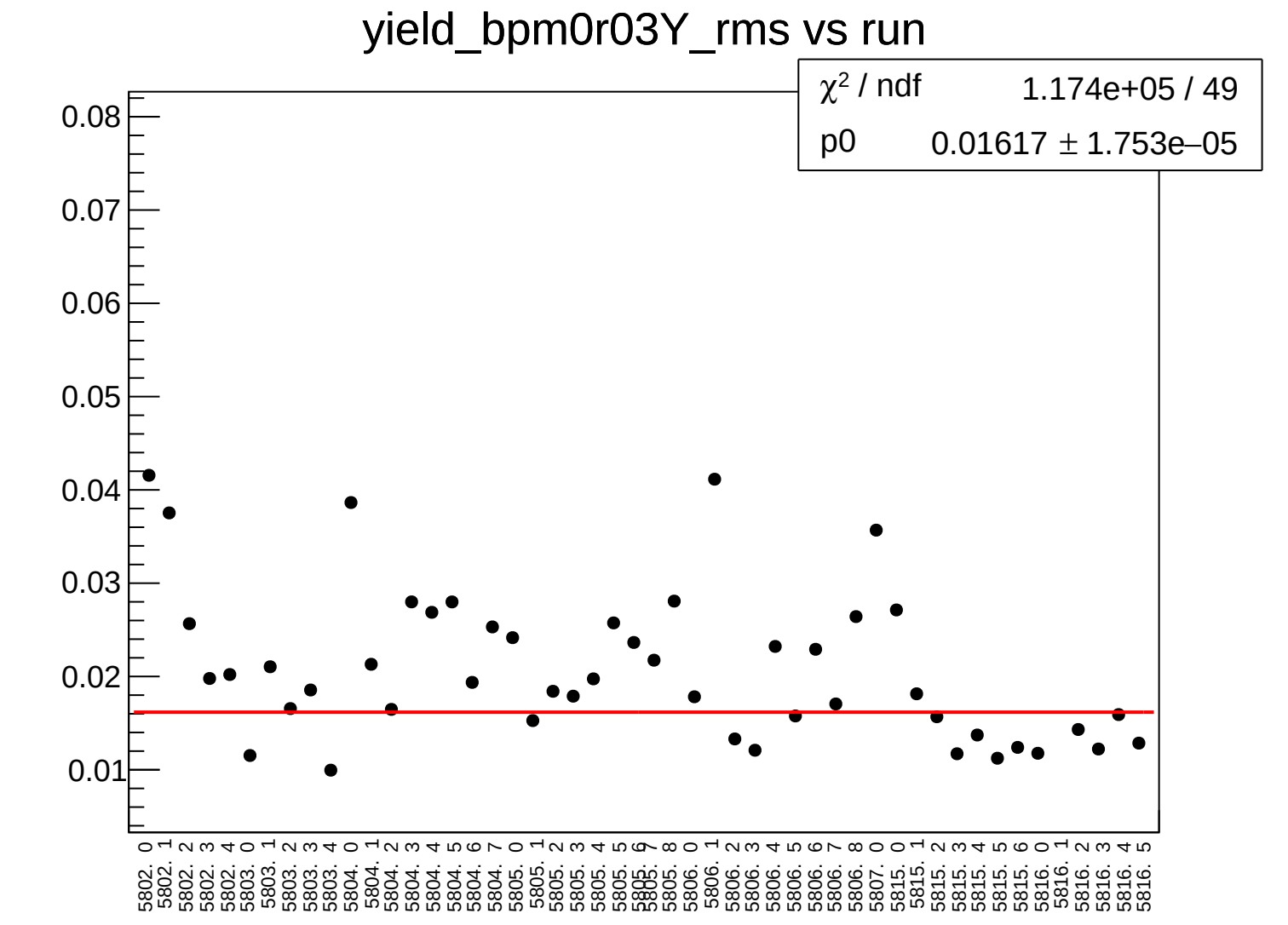

yield_bpm0r03X_mean vs run
χ² / ndf 3.654e+05 / 49
p0 −2.069 ± 9.488e−05
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
pull
Entries 50
Mean −123.9
Std Dev 143.6
150
100
50
0
−50
−100
−150
−200
−250
−300

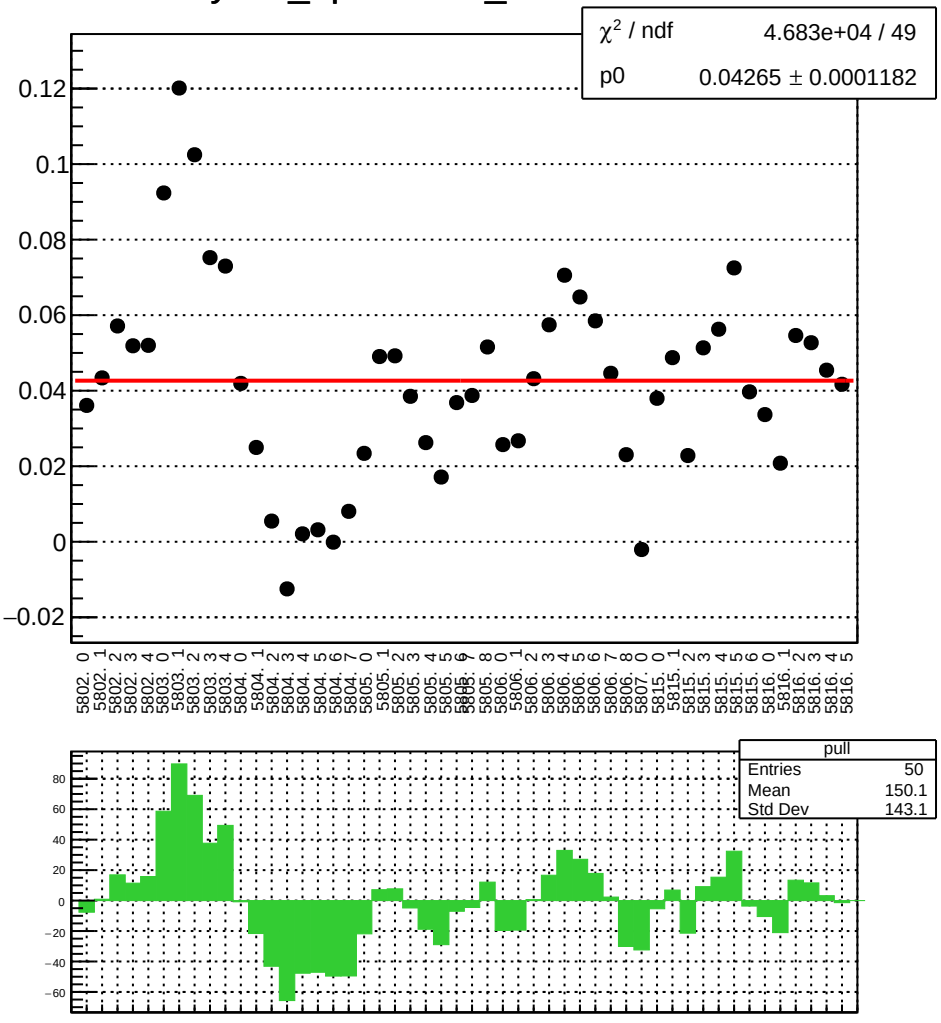

pull1D
Entries 50
Mean −2.756
Std Dev 4.988
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

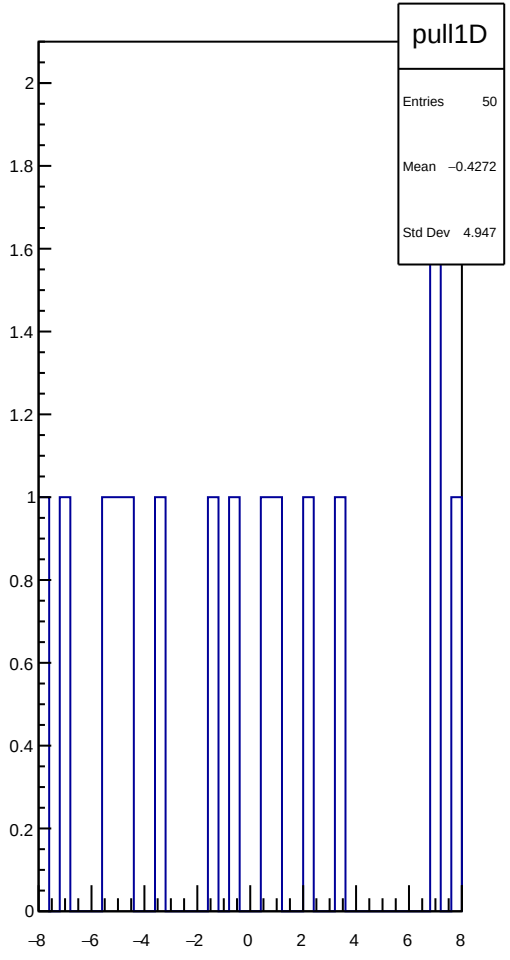

yield_bpm0r03X_rms vs run
χ² / ndf 5169 / 49
p0 0.06583 ± 6.709e–05
0.09
0.085
0.08
0.075
0.07
0.065
0.06
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

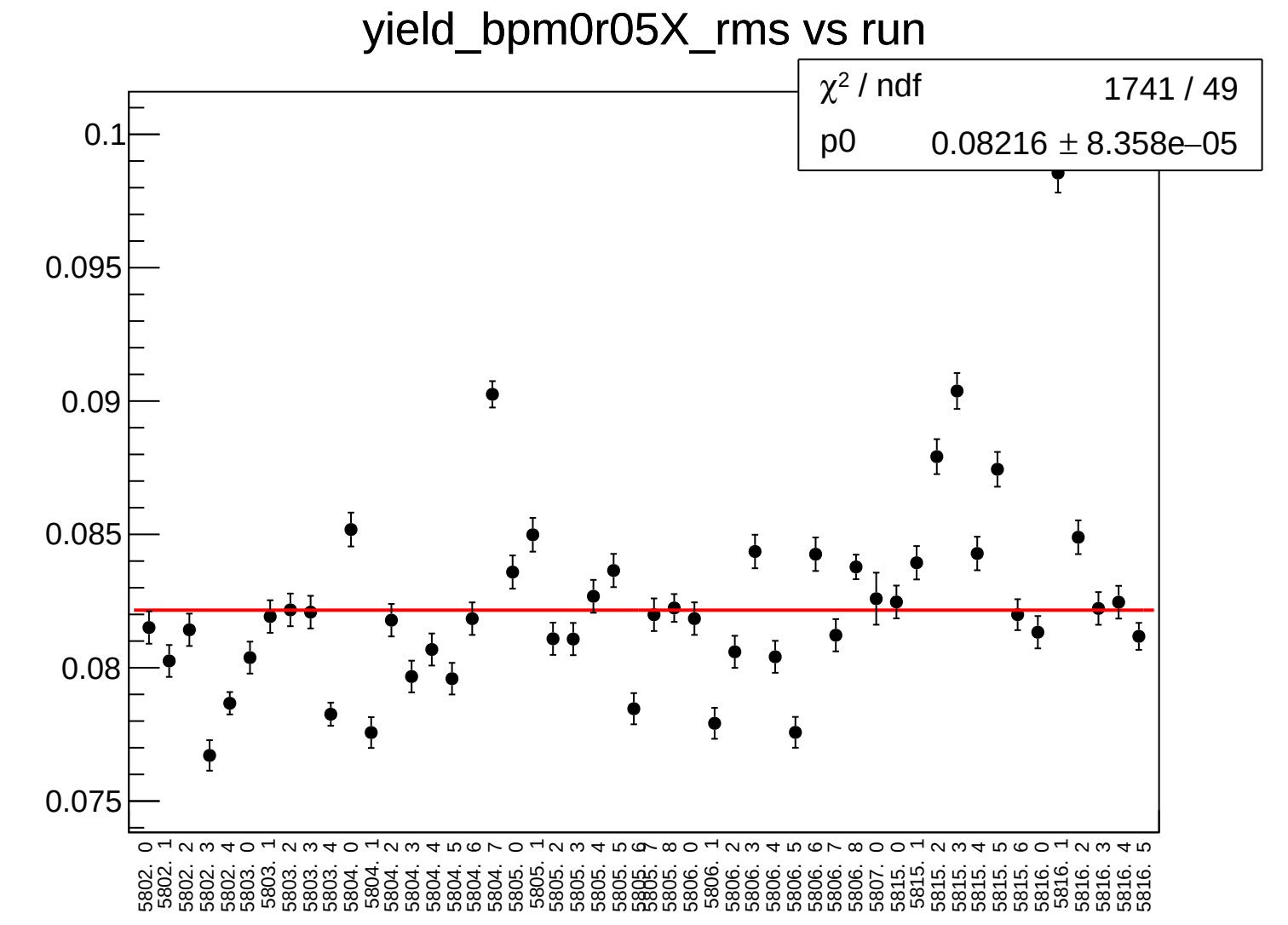

yield_bpm0r03Y_mean vs run
χ² / ndf 4.466e+06 / 49
p0 0.1106 ± 2.48e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 50
Mean 19.73
Std Dev 23.44
600
400
200
0
−200
−400
−600

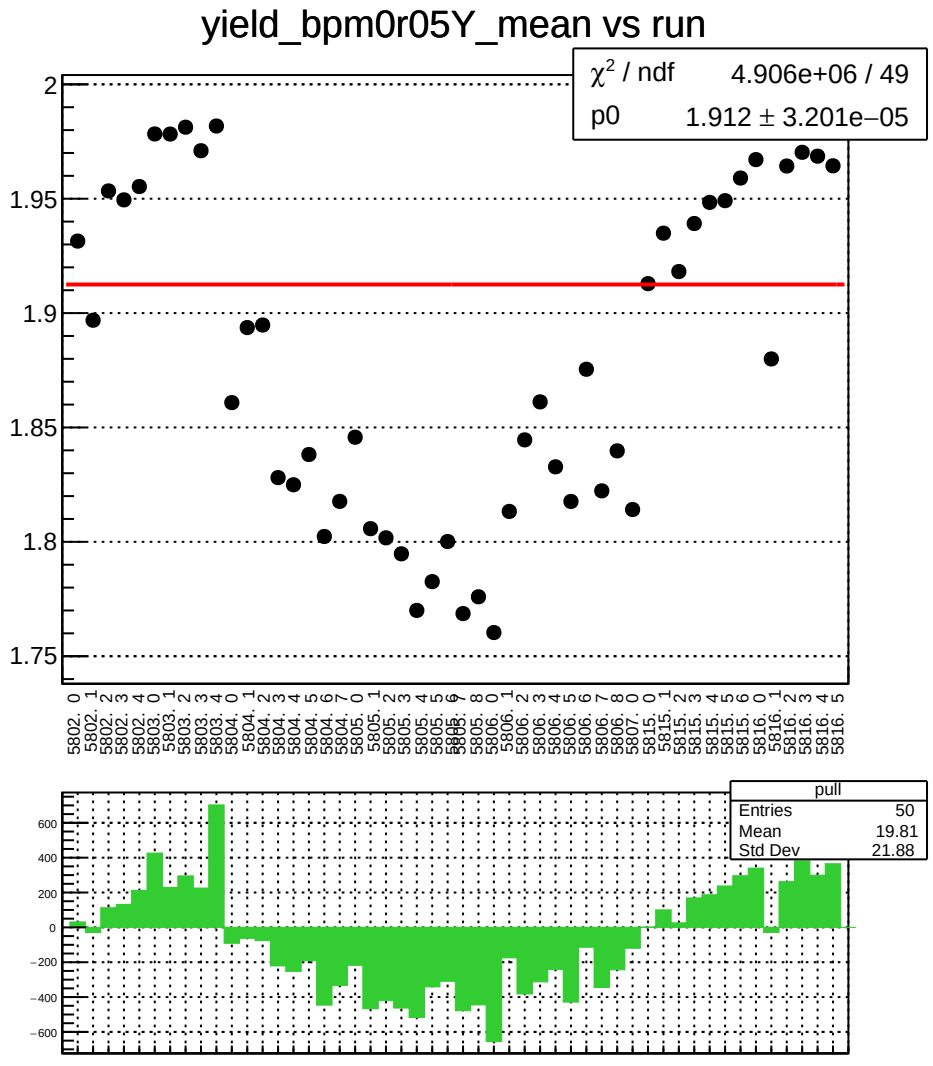

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

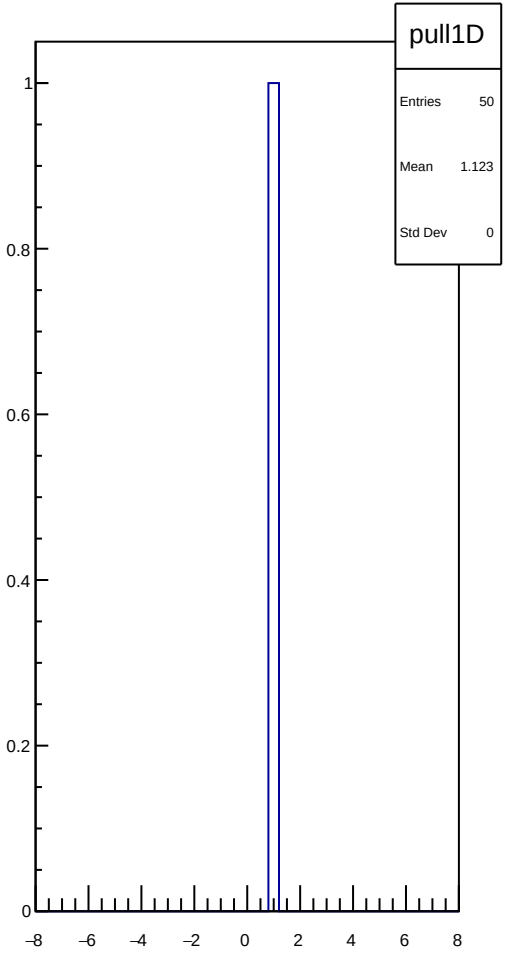

yield_bpm0r03Y_rms vs run
χ² / ndf 1.174e+05 / 49
p0 0.01617 ± 1.753e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

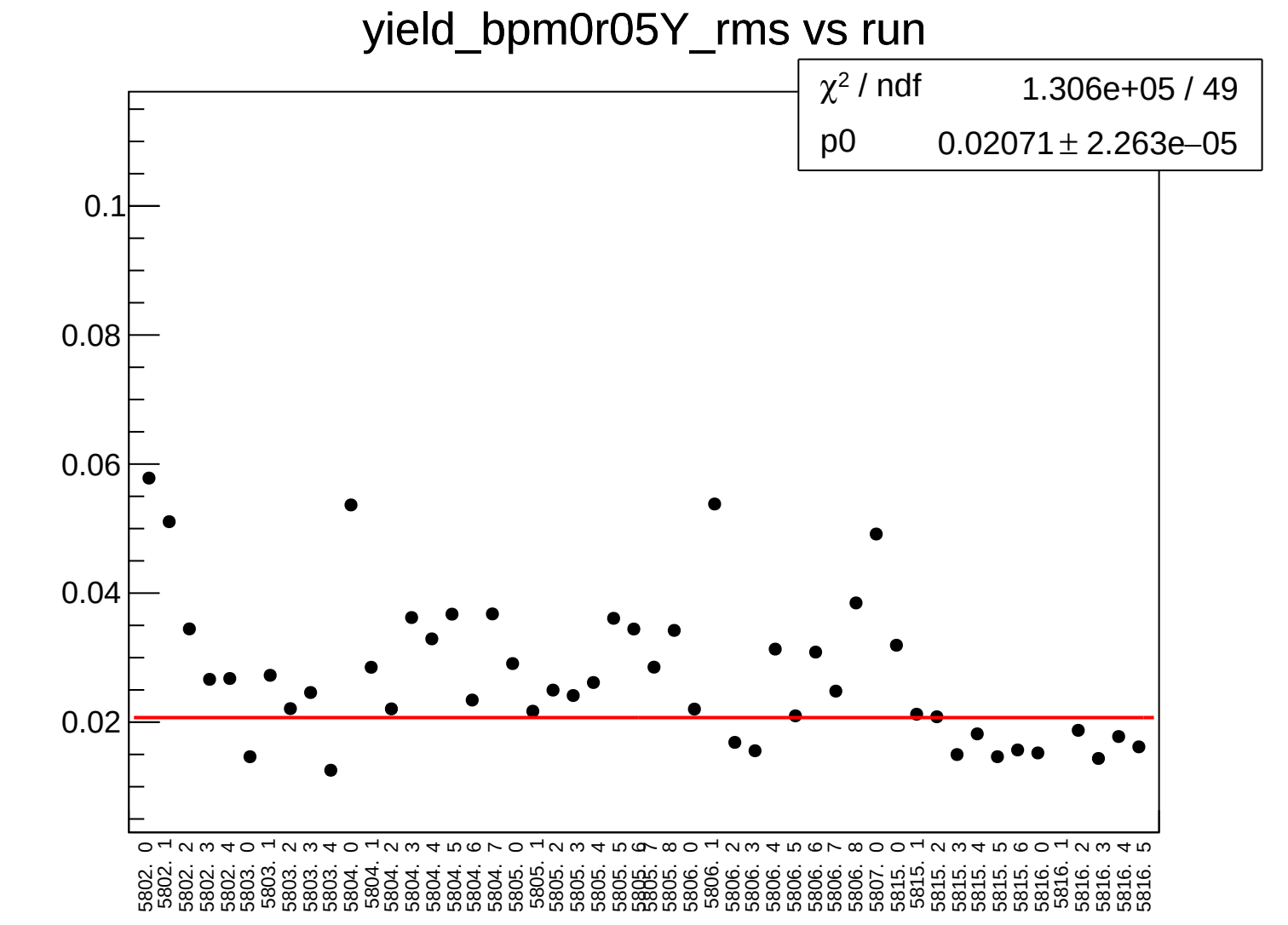

yield_bpm0r05X_mean vs run
χ² / ndf 4.683e+04 / 49
p0 0.04265 ± 0.0001182
pull
Entries 50
Mean 150.1
Std Dev 143.1

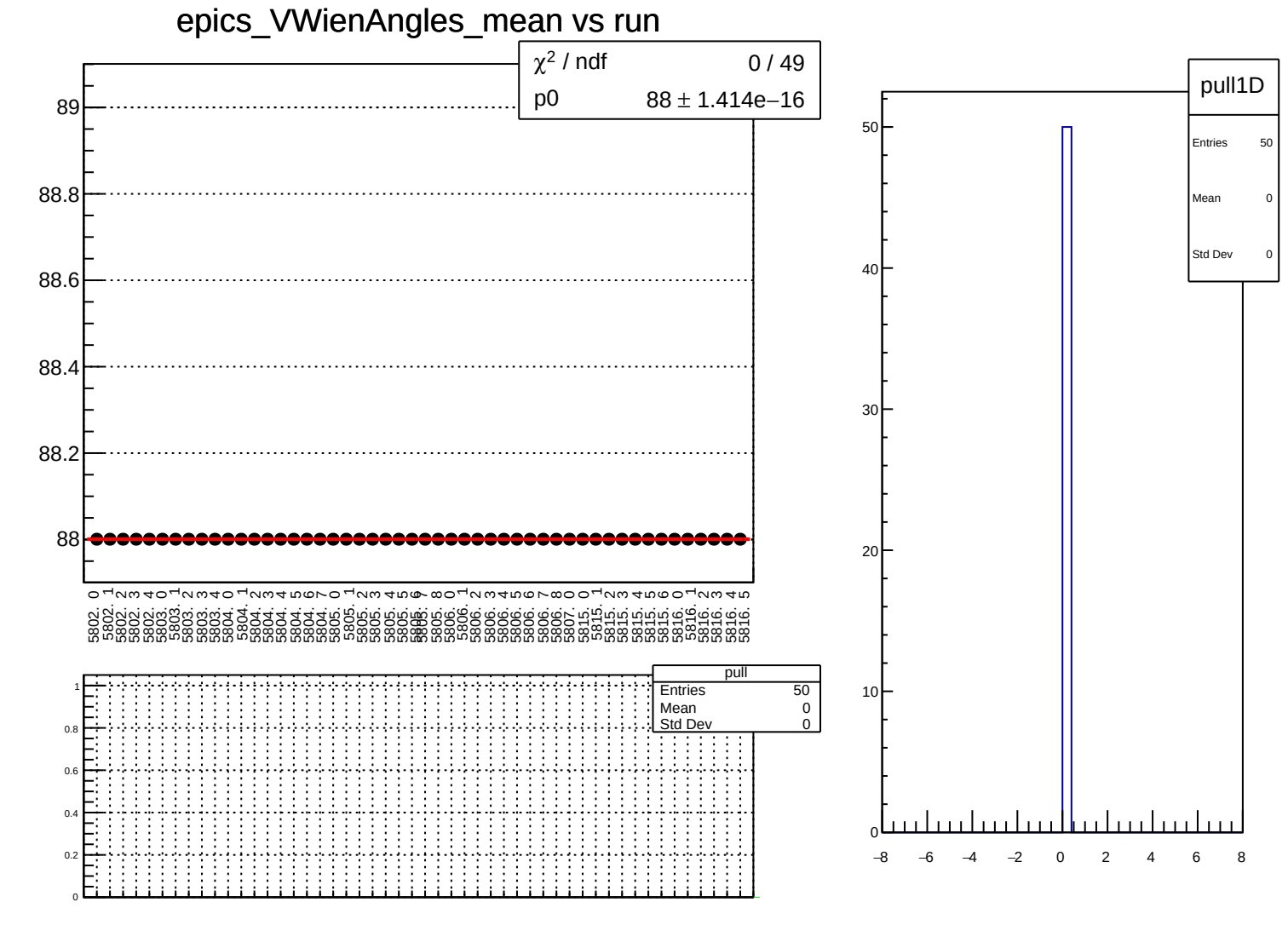

pull1D
Entries 50
Mean −0.4272
Std Dev 4.947

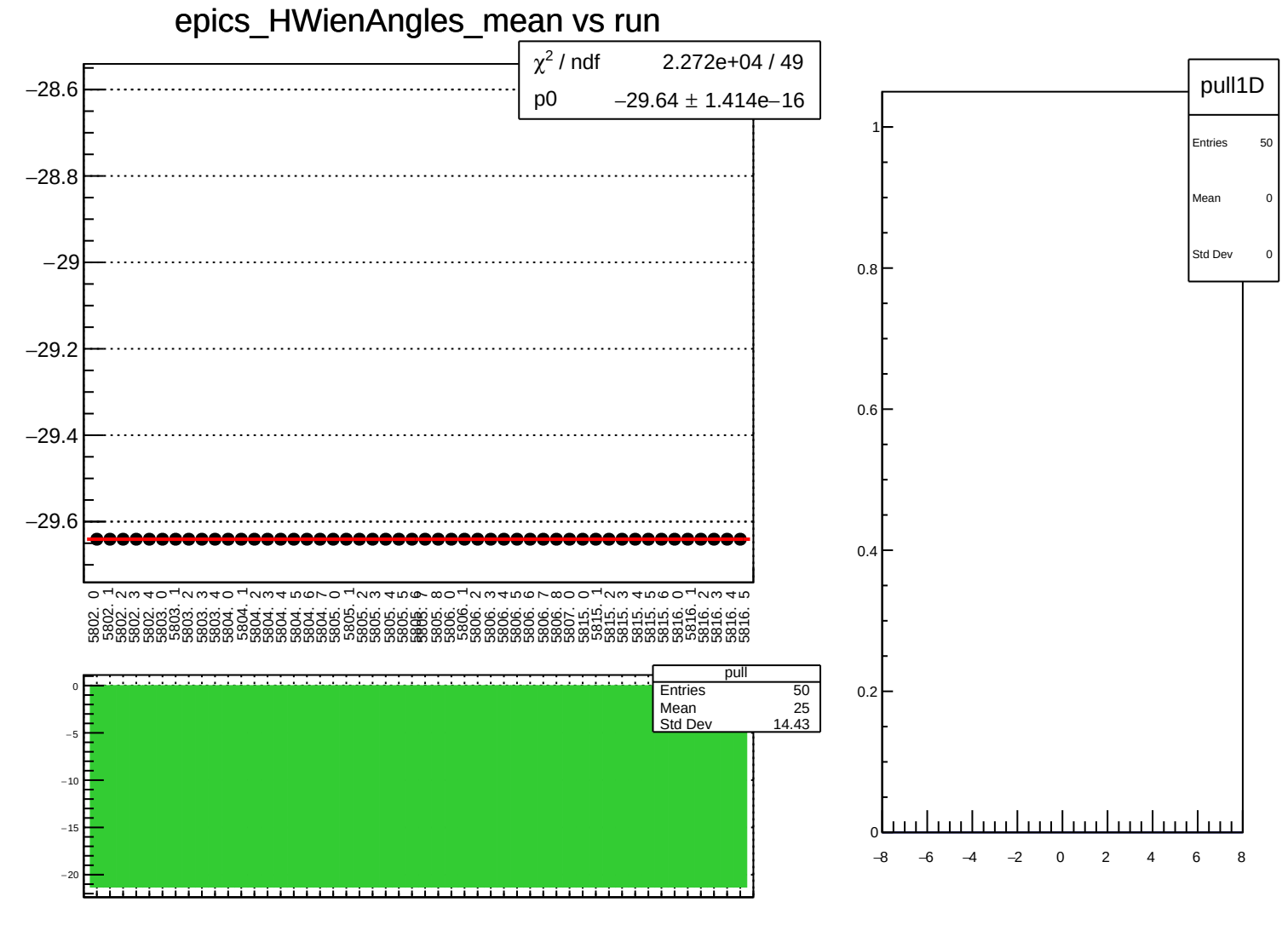

yield_bpm0r05X_rms vs run
χ² / ndf 1741 / 49
p0 0.08216 ± 8.358e–05
0.1
0.095
0.09
0.085
0.08
0.075
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

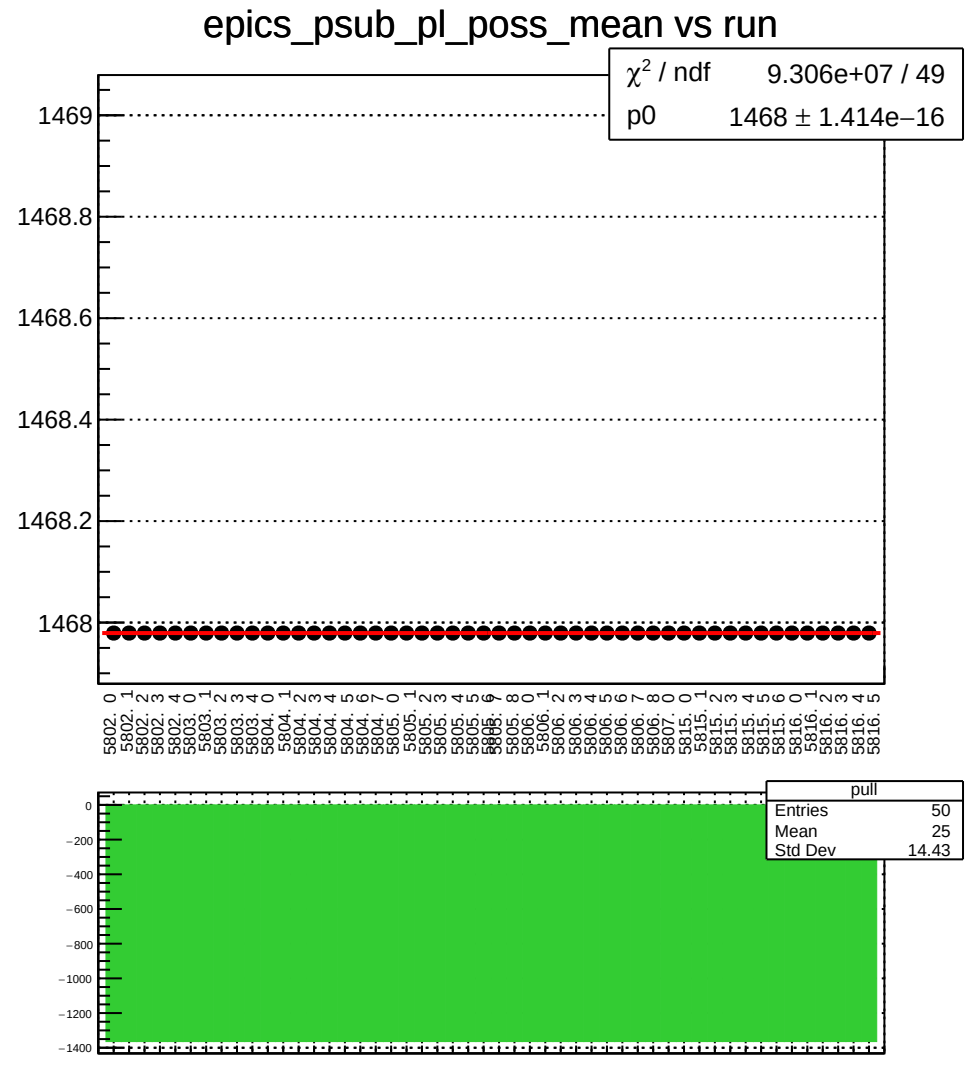

yield_bpm0r05Y_mean vs run
χ² / ndf 4.906e+06 / 49
p0 1.912 ± 3.201e−05
2
1.95
1.9
1.85
1.8
1.75
pull
Entries 50
Mean 19.81
Std Dev 21.88
600
400
200
0
−200
−400
−600

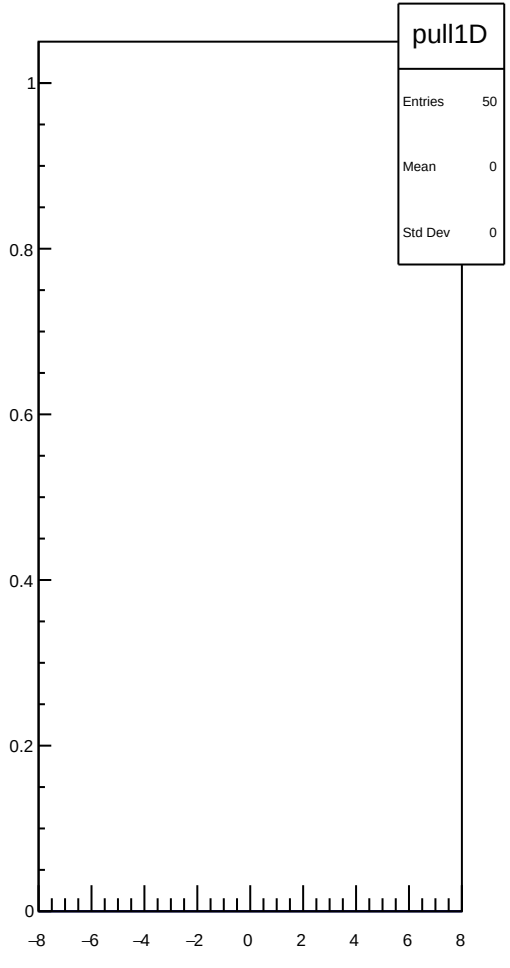

pull1D
Entries 50
Mean 1.123
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

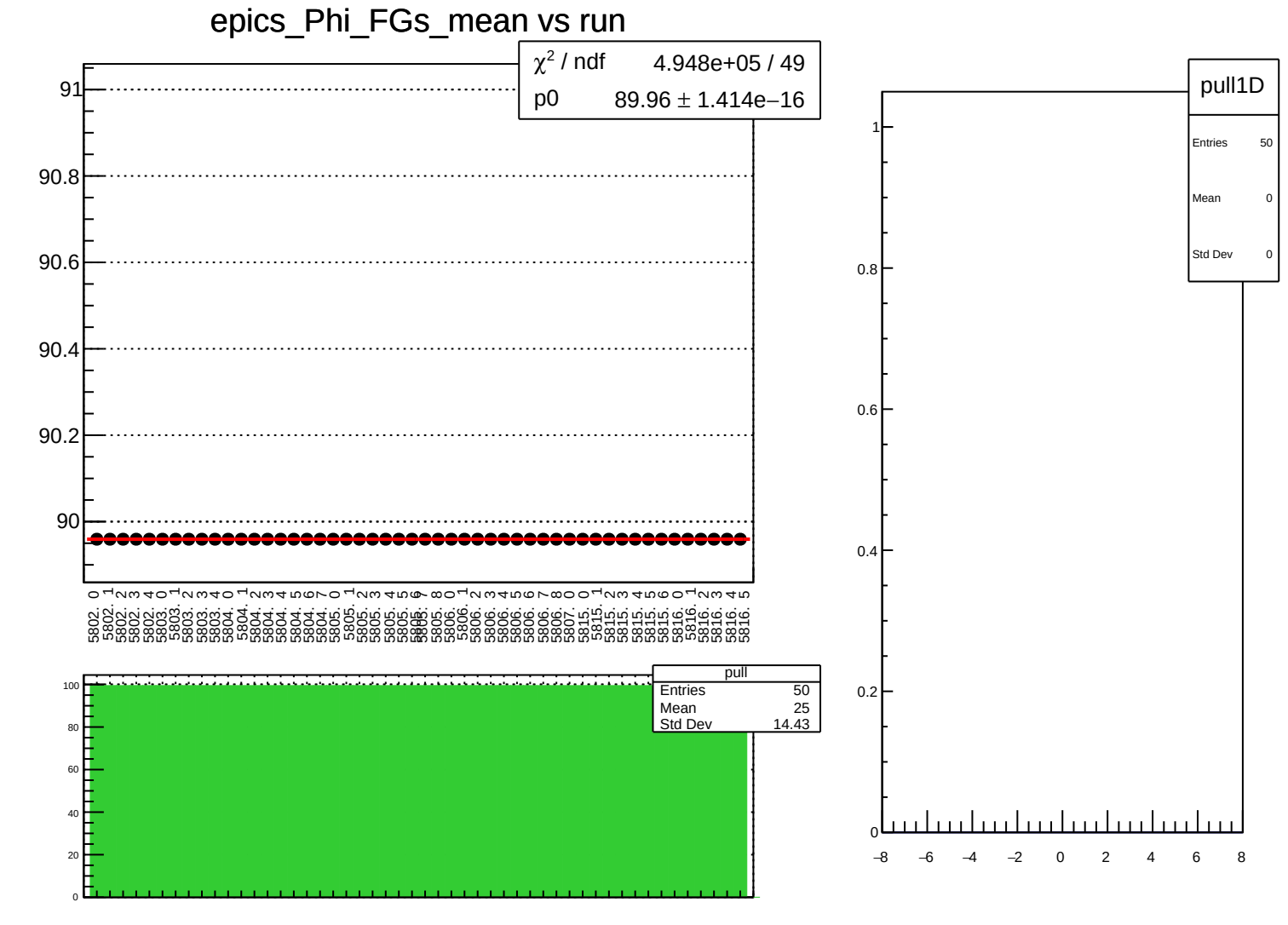

yield_bpm0r05Y_rms vs run
χ² / ndf 1.306e+05 / 49
p0 0.02071 ± 2.263e–05
0.1
0.08
0.06
0.04
0.02
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5

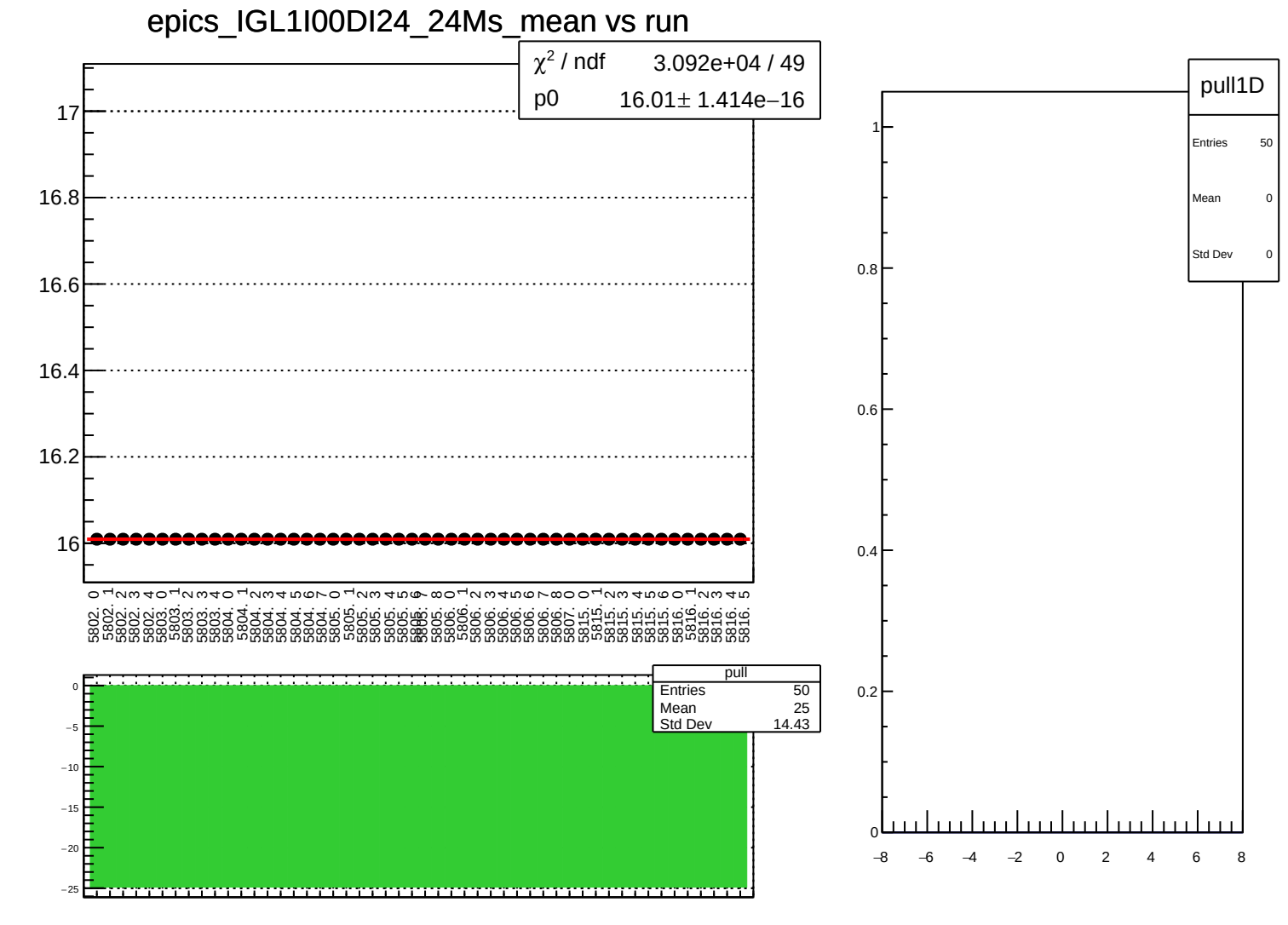

epics_VWienAngles_mean vs run
χ² / ndf 0 / 49
p0 88 ± 1.414e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 50
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

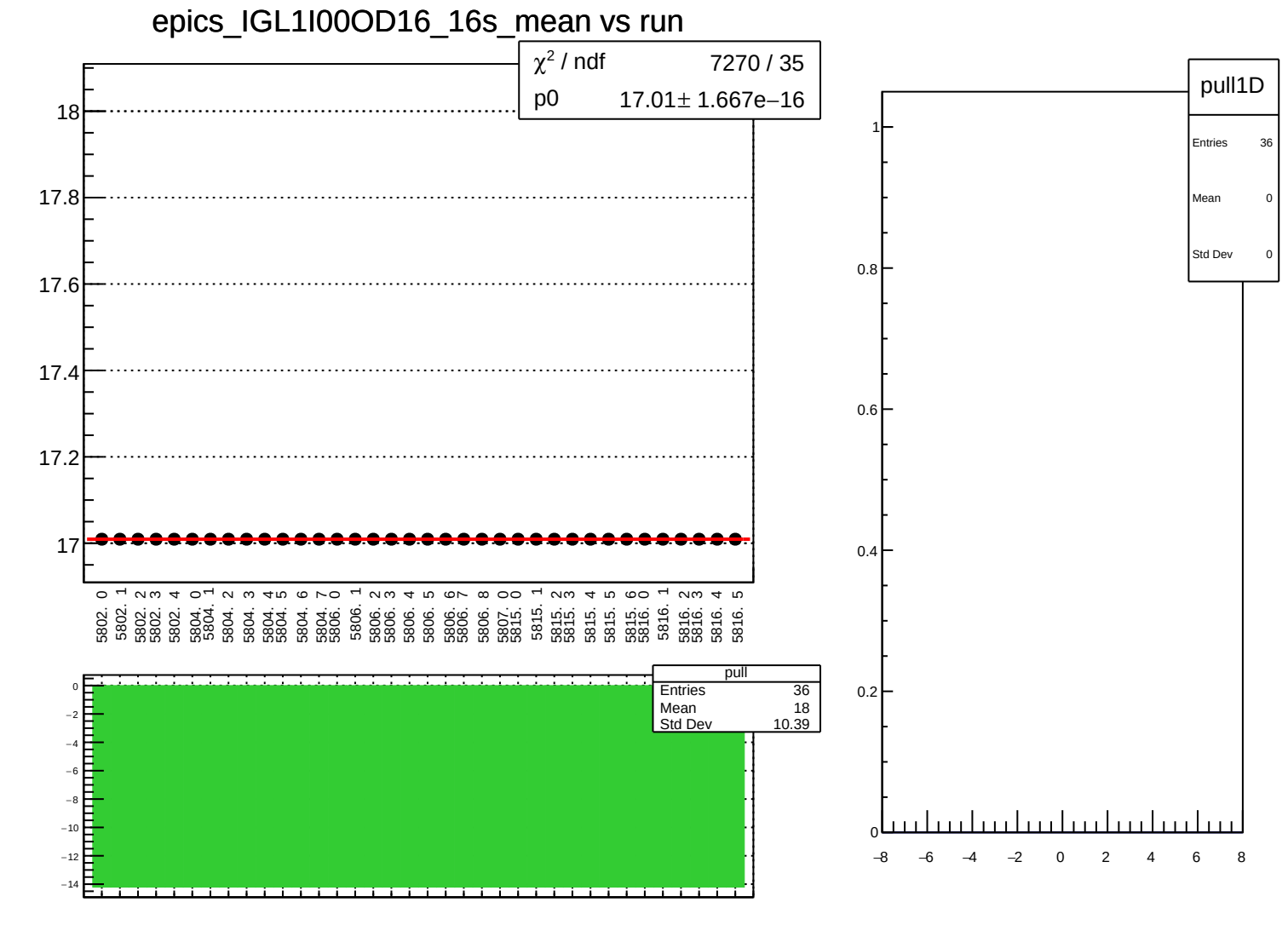

epics_HWienAngles_mean vs run
χ² / ndf 2.272e+04 / 49
p0 −29.64 ± 1.414e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 50
Mean 25
Std Dev 14.43
0
−5
−10
−15
−20
pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

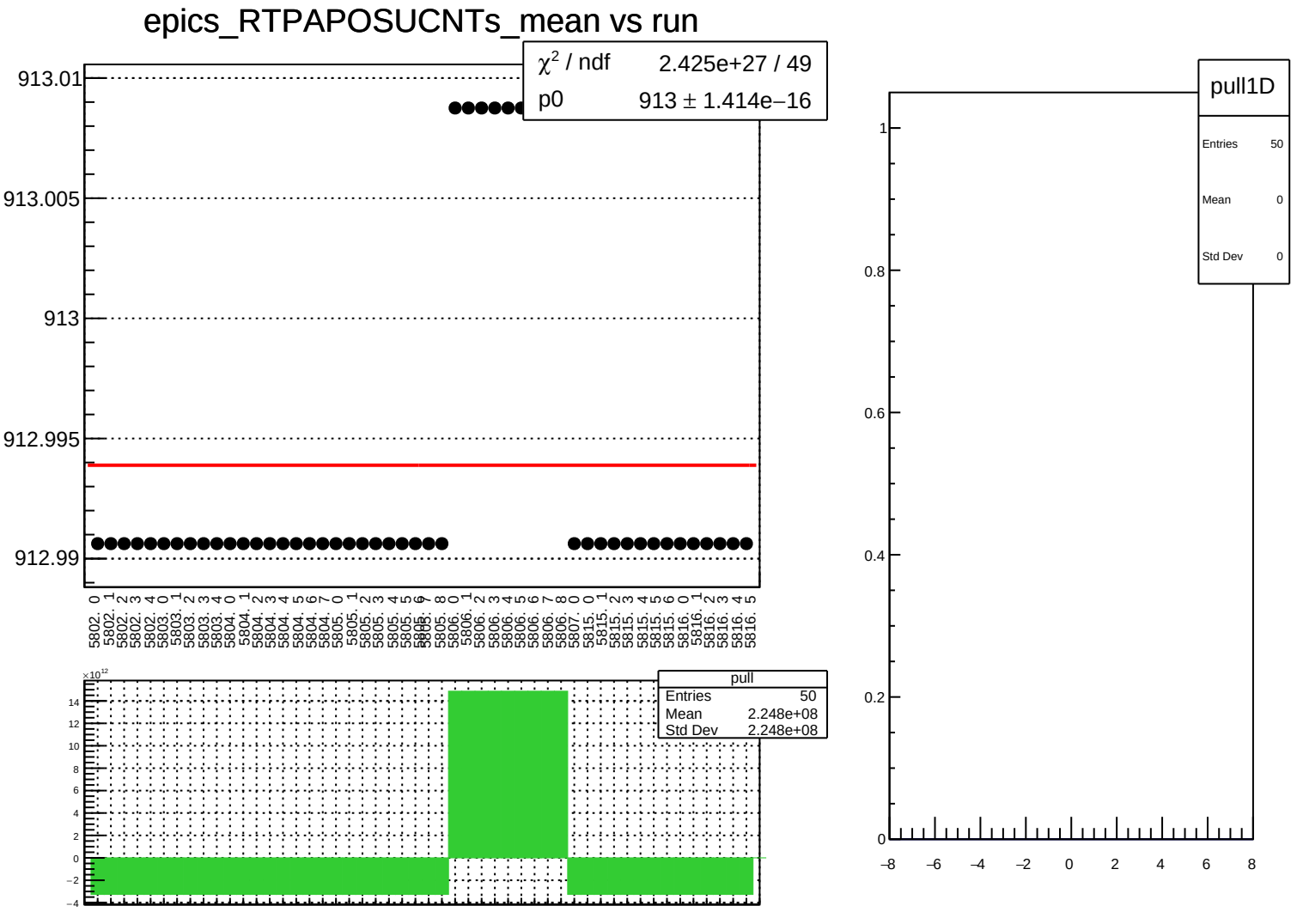

epics_psub_pl_poss_mean vs run
χ² / ndf 9.306e+07 / 49
p0 1468 ± 1.414e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 50
Mean 25
Std Dev 14.43
0
−200
−400
−600
−800
−1000
−1200
−1400

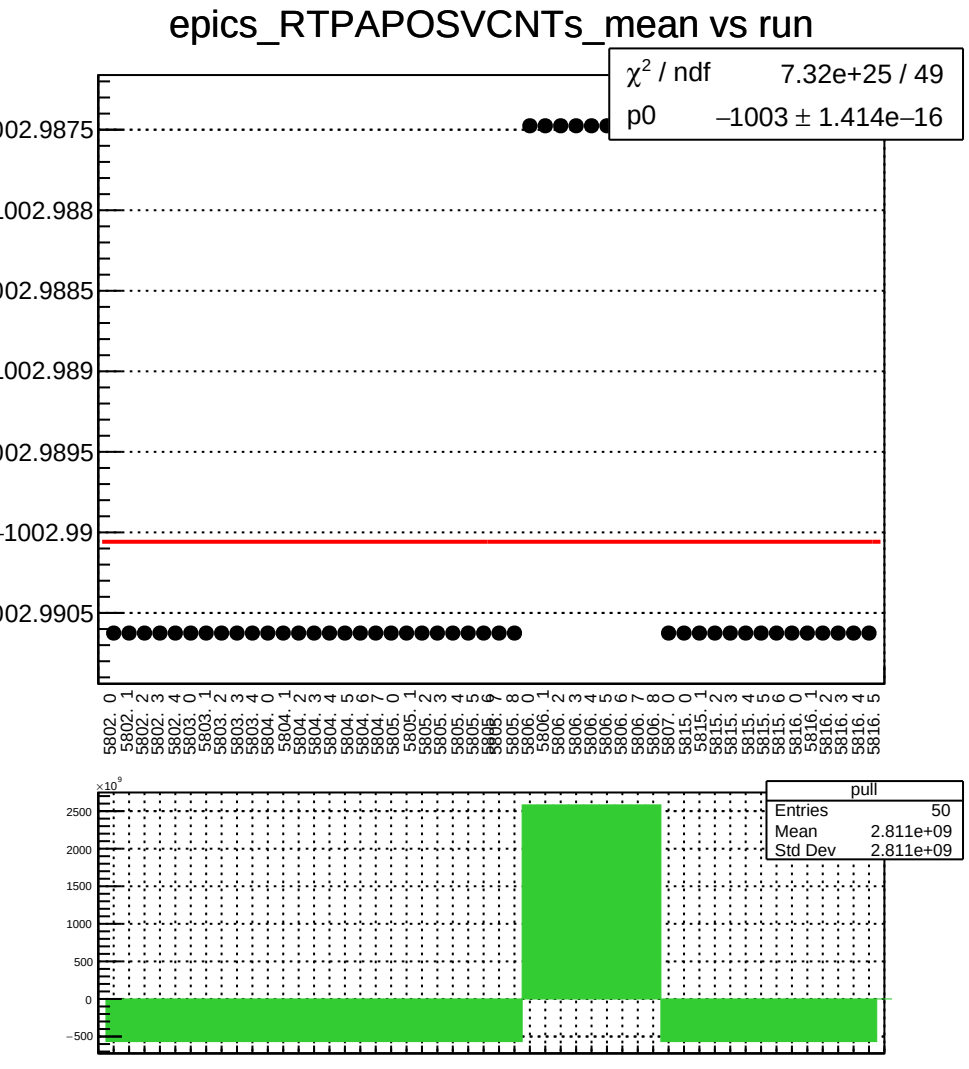

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

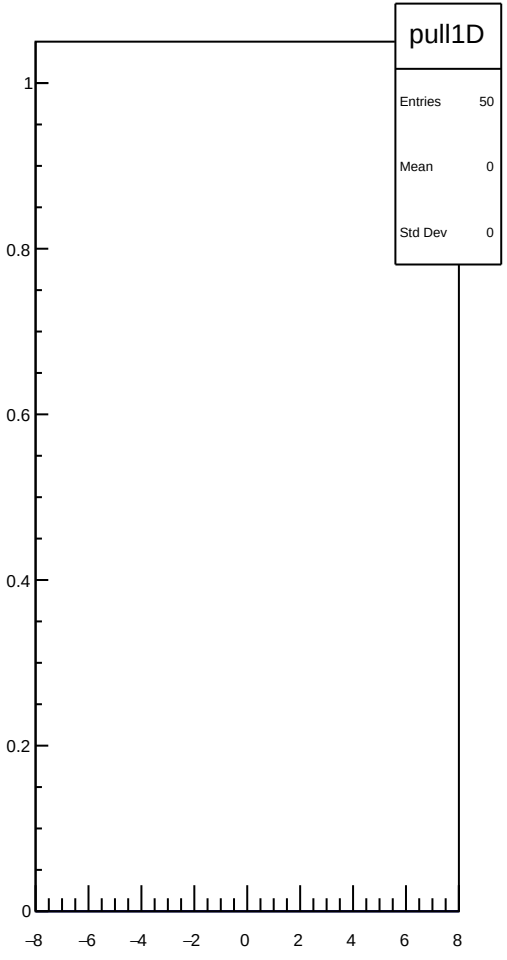

epics_Phi_FGs_mean vs run
χ² / ndf 4.948e+05 / 49
p0 89.96 ± 1.414e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 50
Mean 25
Std Dev 14.43
100
80
60
40
20
0
pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 3.092e+04 / 49
p0 16.01± 1.414e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 50
Mean 25
Std Dev 14.43
0
−5
−10
−15
−20
−25
pull1D
Entries 50
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 7270 / 35
p0 17.01± 1.667e−16
18
17.8
17.6
17.4
17.2
17
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
pull
Entries 36
Mean 18
Std Dev 10.39
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 36
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 2.425e+27 / 49
p0 913 ± 1.414e−16
913.01
913.005
913
912.995
912.99
pull
Entries 50
Mean 2.248e+08
Std Dev 2.248e+08
pull1D
Entries 50
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 7.32e+25 / 49
p0 −1003 ± 1.414e−16
002.9875
1002.988
002.9885
1002.989
002.9895
-1002.99
002.9905
5802. 0
5802. 1
5802. 2
5802. 3
5802. 4
5803. 0
5803. 1
5803. 2
5803. 3
5803. 4
5804. 0
5804. 1
5804. 2
5804. 3
5804. 4
5804. 5
5804. 6
5804. 7
5805. 0
5805. 1
5805. 2
5805. 3
5805. 4
5805. 5
5805. 6
5805. 7
5805. 8
5806. 0
5806. 1
5806. 2
5806. 3
5806. 4
5806. 5
5806. 6
5806. 7
5806. 8
5807. 0
5815. 0
5815. 1
5815. 2
5815. 3
5815. 4
5815. 5
5815. 6
5816. 0
5816. 1
5816. 2
5816. 3
5816. 4
5816. 5
×10⁹
2500
2000
1500
1000
500
0
−500
pull
Entries 50
Mean 2.811e+09
Std Dev 2.811e+09


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8