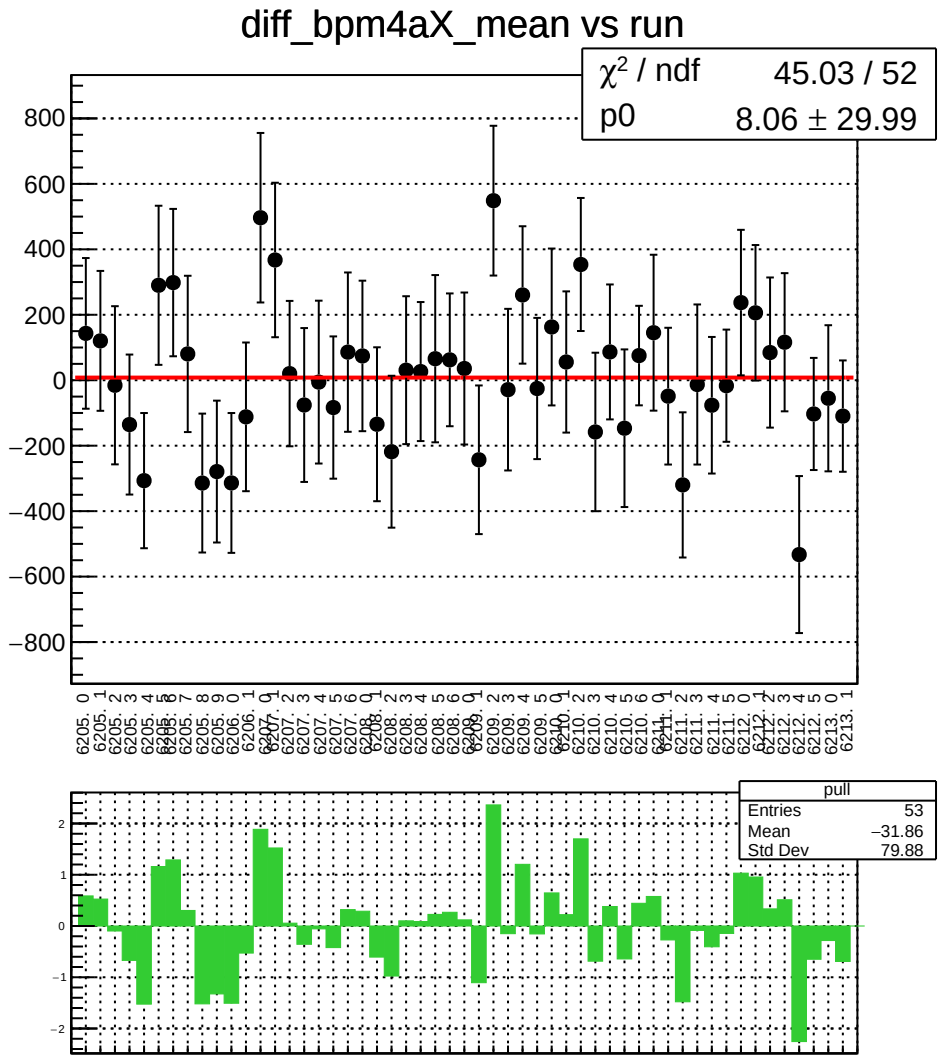
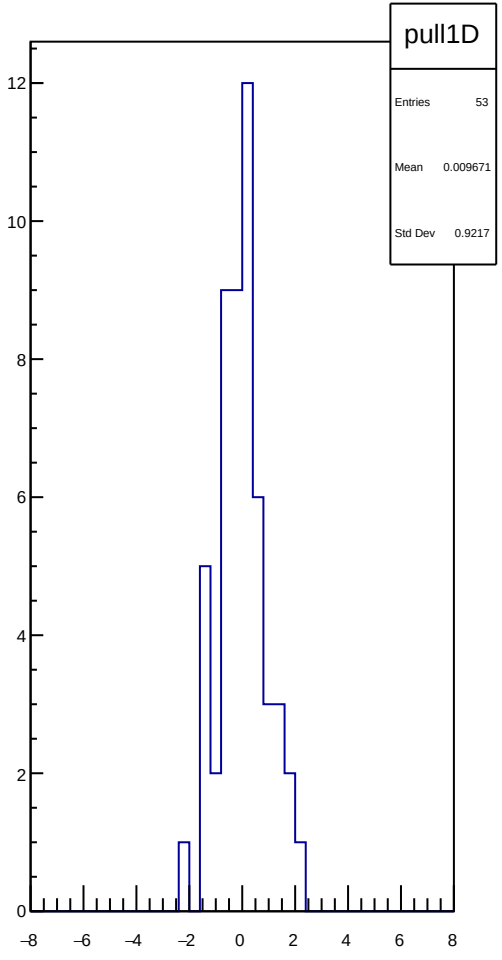
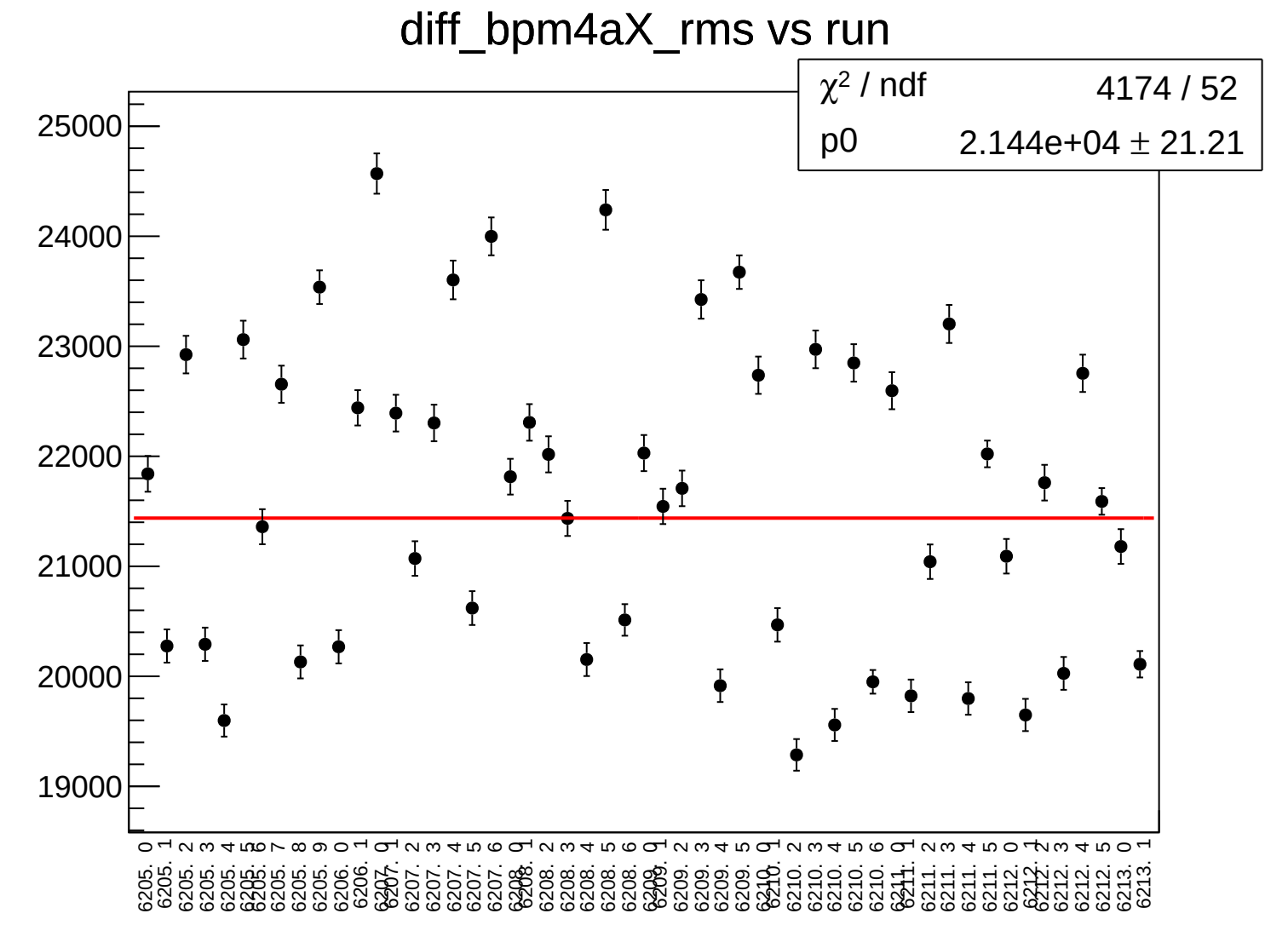
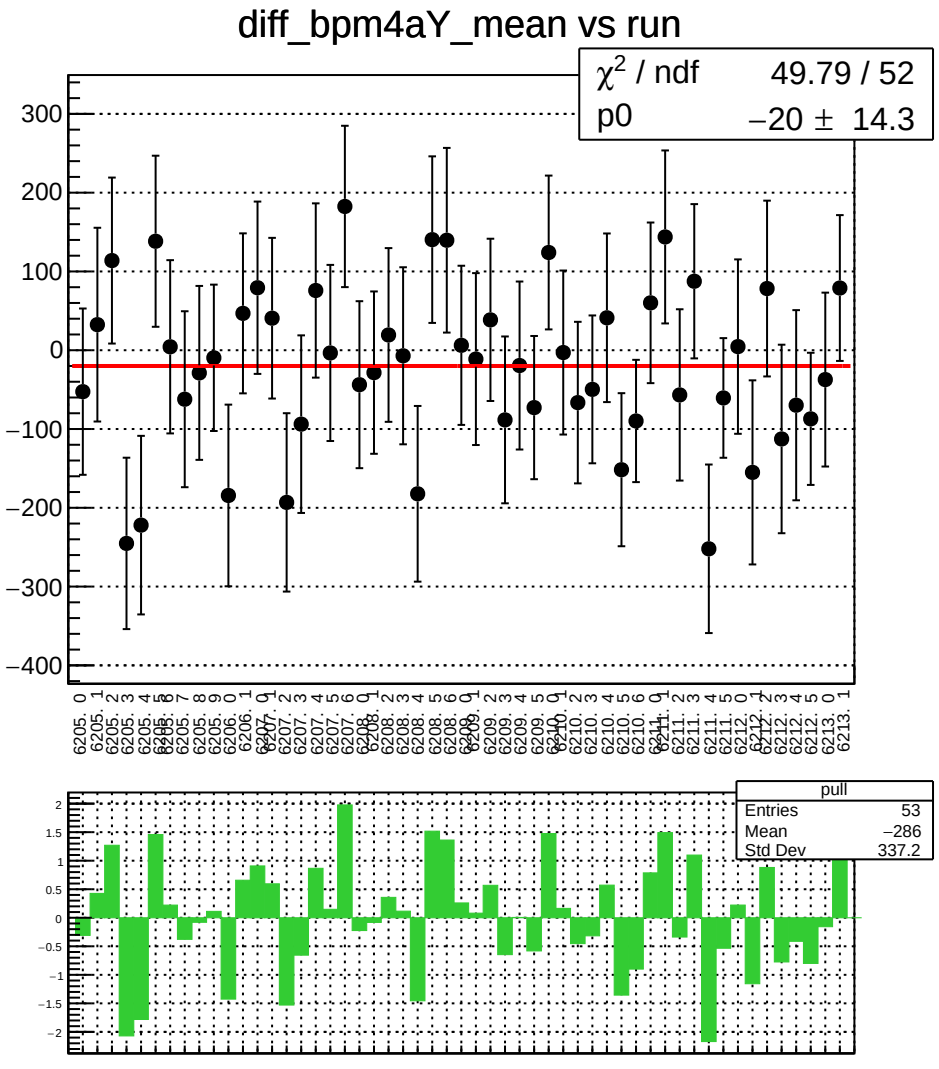
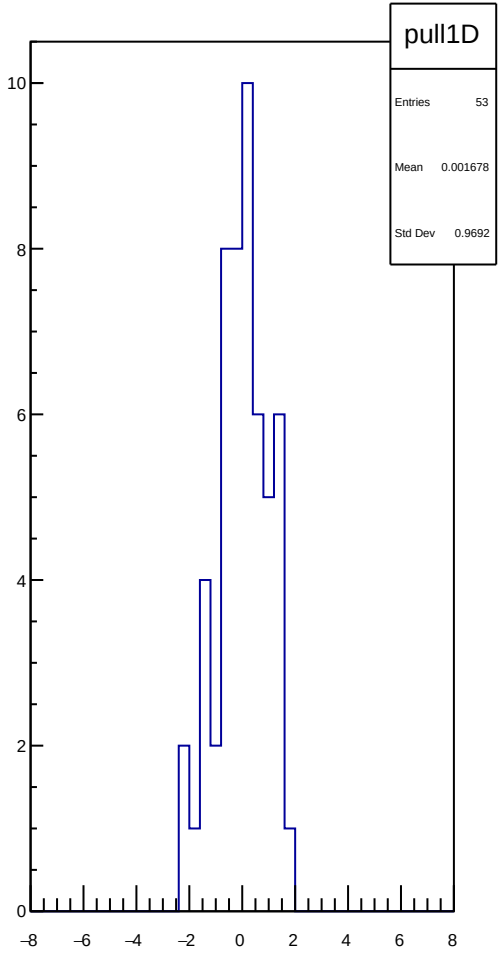
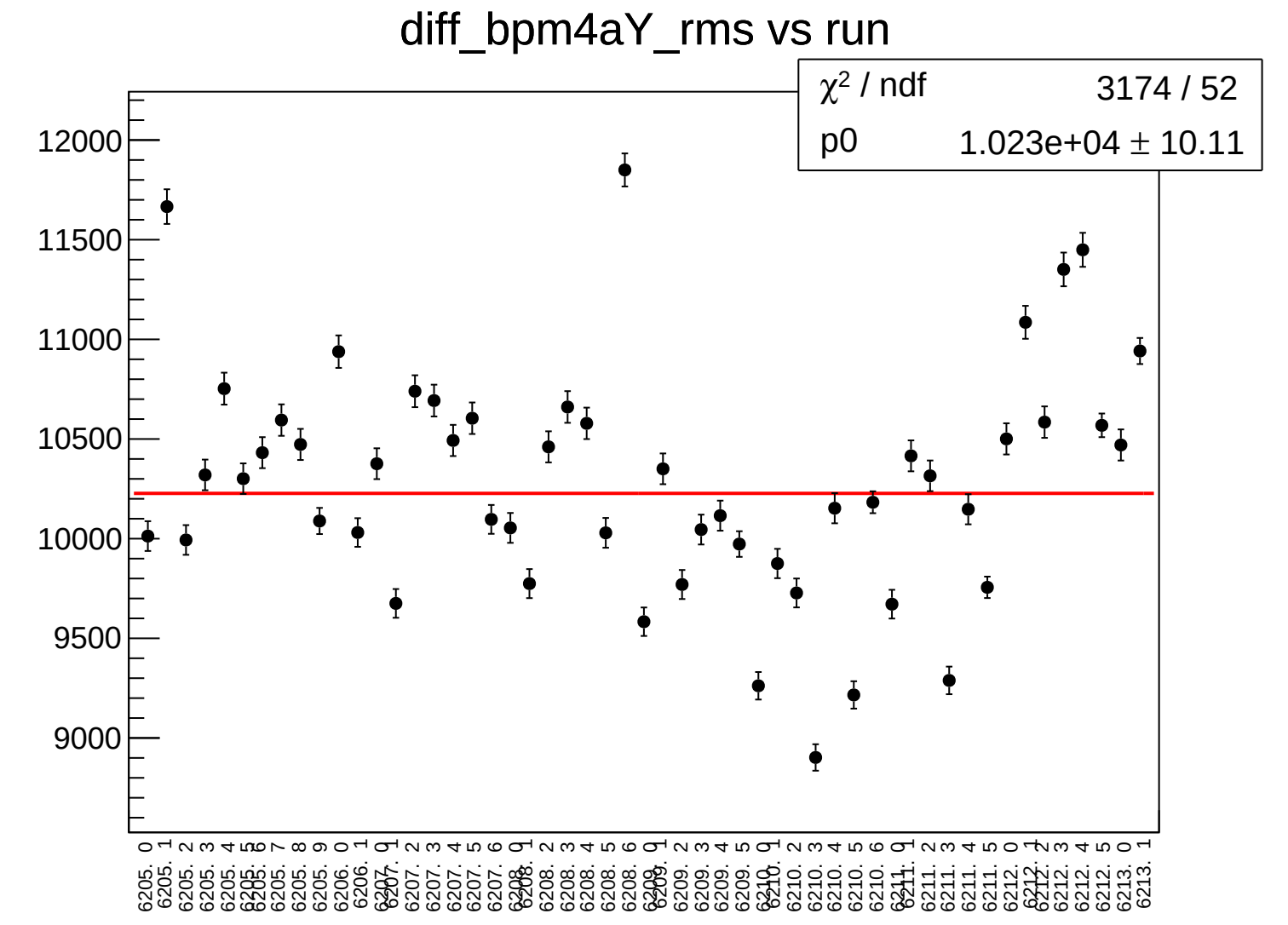

diff_bpm4aX_mean vs run
χ² / ndf 45.03 / 52
p0 8.06 ± 29.99
pull
Entries 53
Mean −31.86
Std Dev 79.88

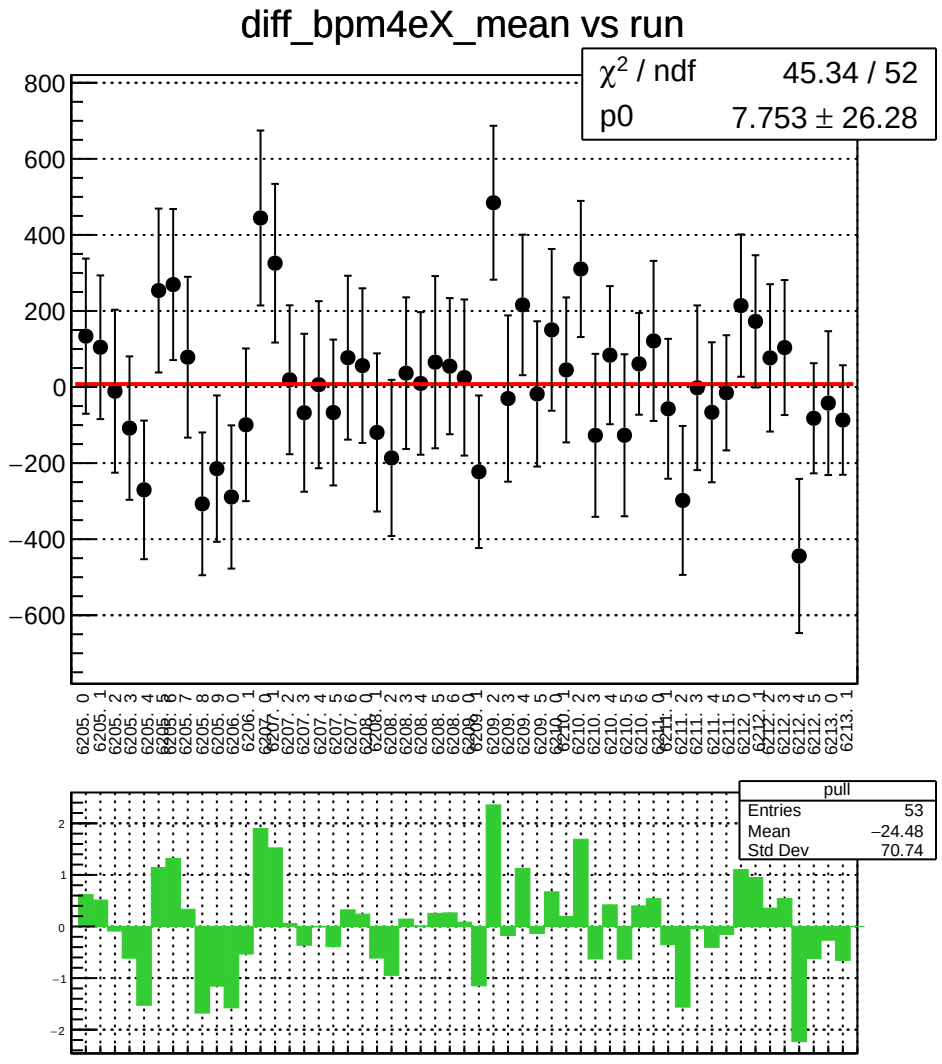

pull1D
Entries 53
Mean 0.009671
Std Dev 0.9217

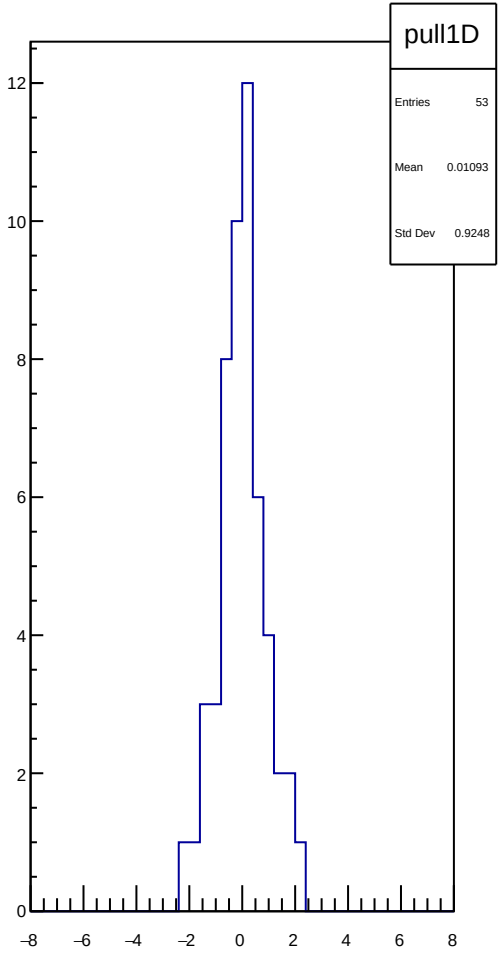

diff_bpm4aX_rms vs run
χ² / ndf 4174 / 52
p0 2.144e+04 ± 21.21
25000
24000
23000
22000
21000
20000
19000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

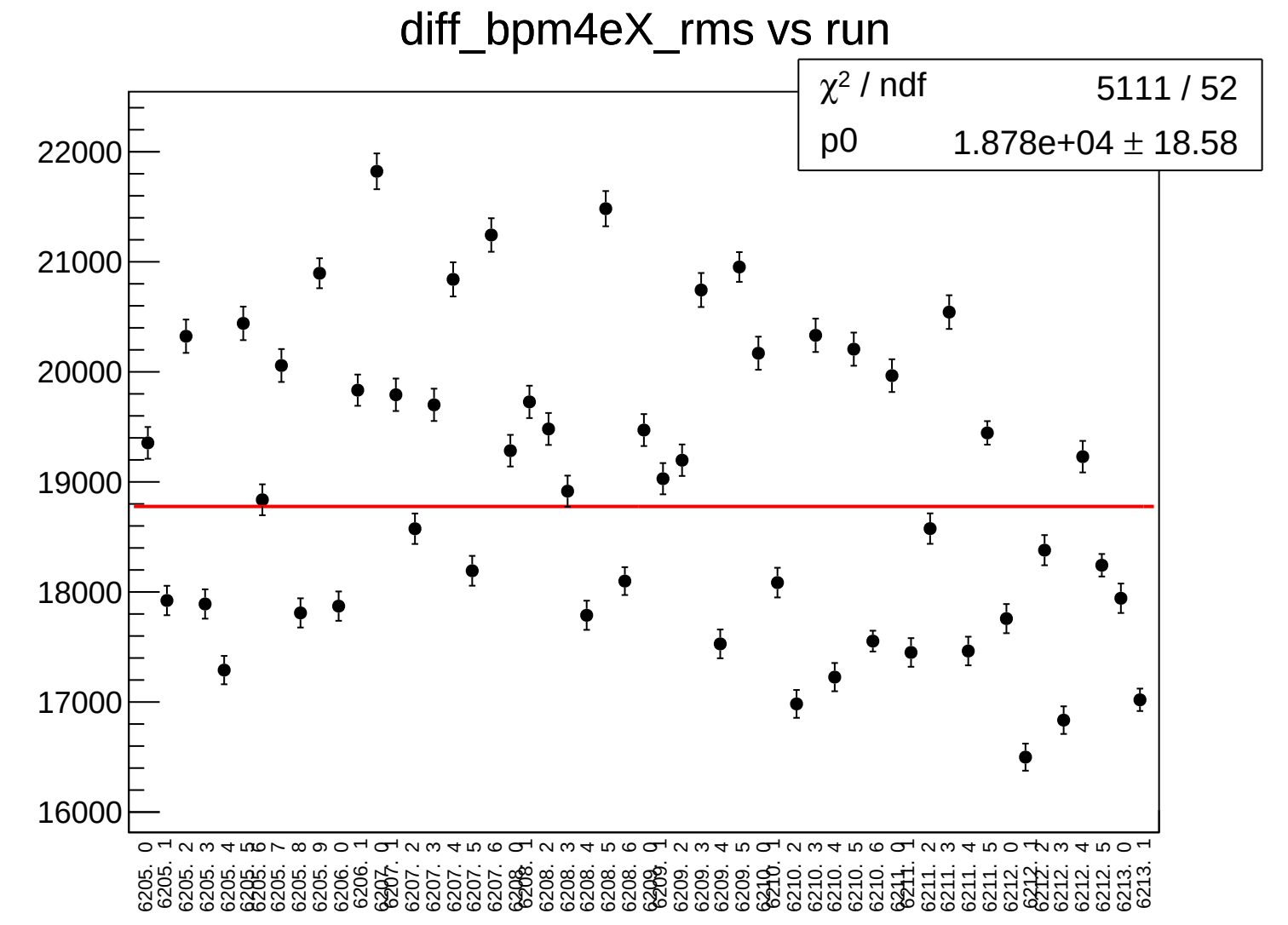

diff_bpm4aY_mean vs run
χ² / ndf 49.79 / 52
p0 −20 ± 14.3
300
200
100
0
−100
−200
−300
−400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1
pull
Entries 53
Mean −286
Std Dev 337.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 53
Mean 0.001678
Std Dev 0.9692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4aY_rms vs run
χ² / ndf 3174 / 52
p0 1.023e+04 ± 10.11
12000
11500
11000
10500
10000
9500
9000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm4eX_mean vs run
χ² / ndf 45.34 / 52
p0 7.753 ± 26.28
pull
Entries 53
Mean −24.48
Std Dev 70.74


pull1D
Entries 53
Mean 0.01093
Std Dev 0.9248


diff_bpm4eX_rms vs run
χ² / ndf 5111 / 52
p0 1.878e+04 ± 18.58
22000
21000
20000
19000
18000
17000
16000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
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6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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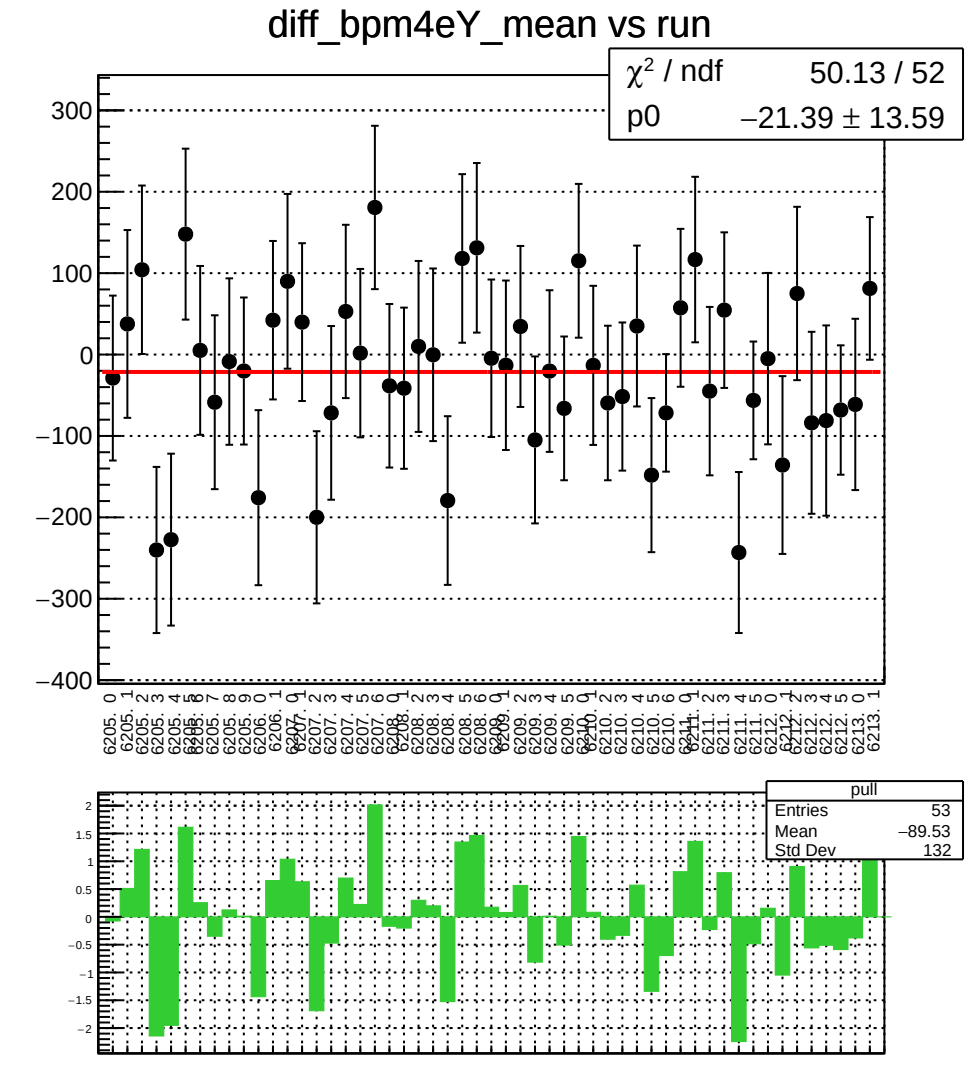
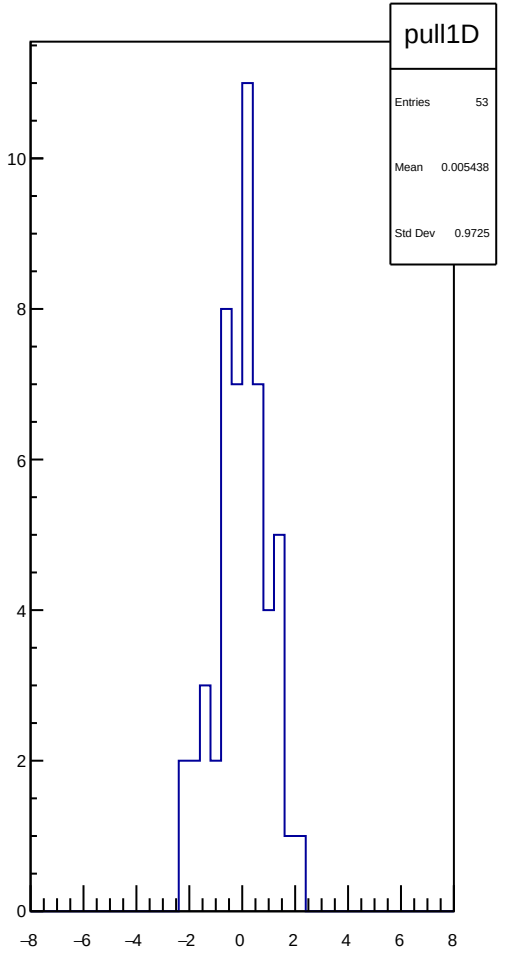
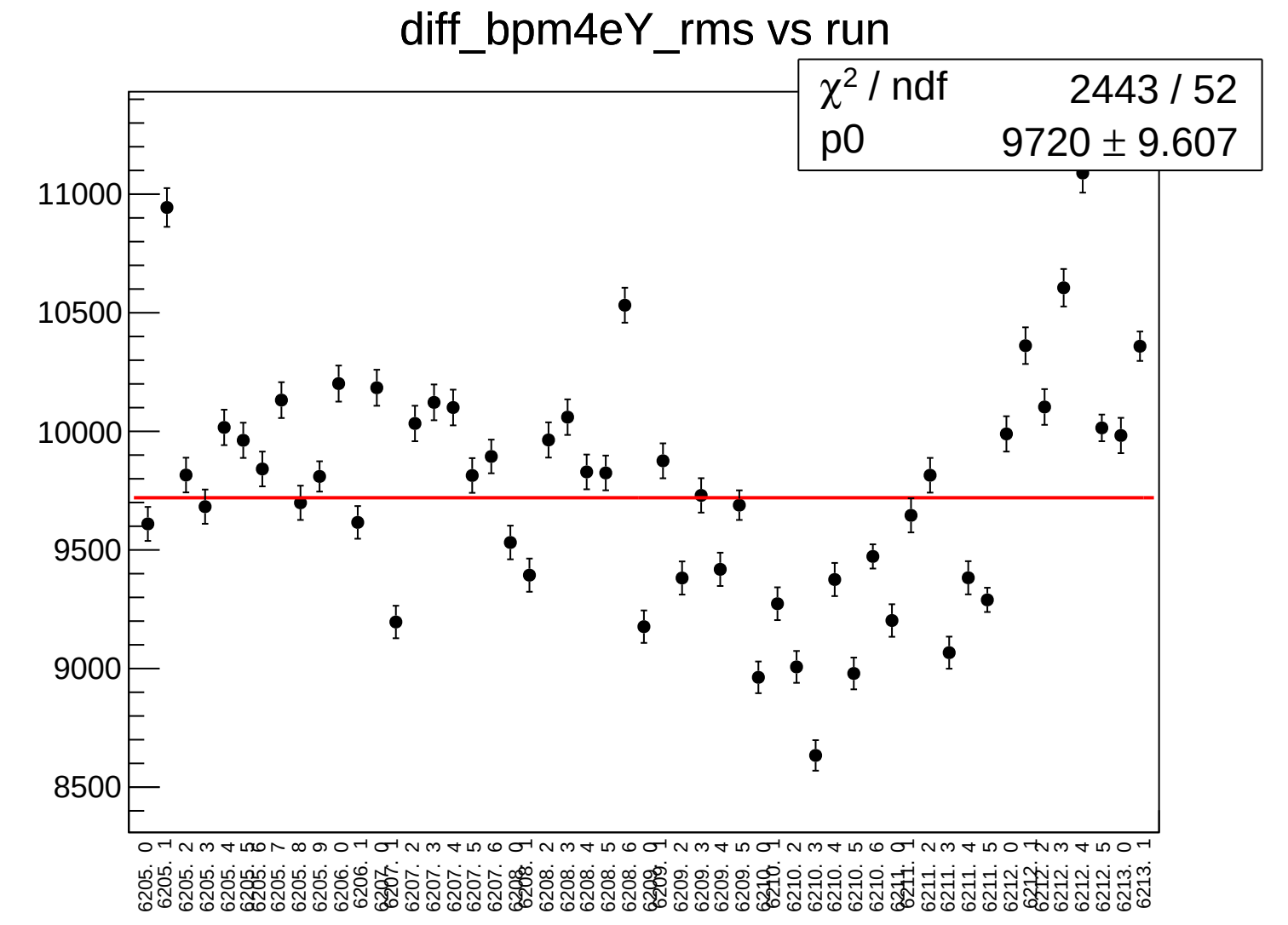
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm4eY_mean vs run
χ² / ndf 50.13 / 52
p0 −21.39 ± 13.59
pull
Entries 53
Mean −89.53
Std Dev 132


pull1D
Entries 53
Mean 0.005438
Std Dev 0.9725


diff_bpm4eY_rms vs run
χ² / ndf 2443 / 52
p0 9720 ± 9.607
11000
10500
10000
9500
9000
8500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
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6209. 3
6209. 4
6209. 5
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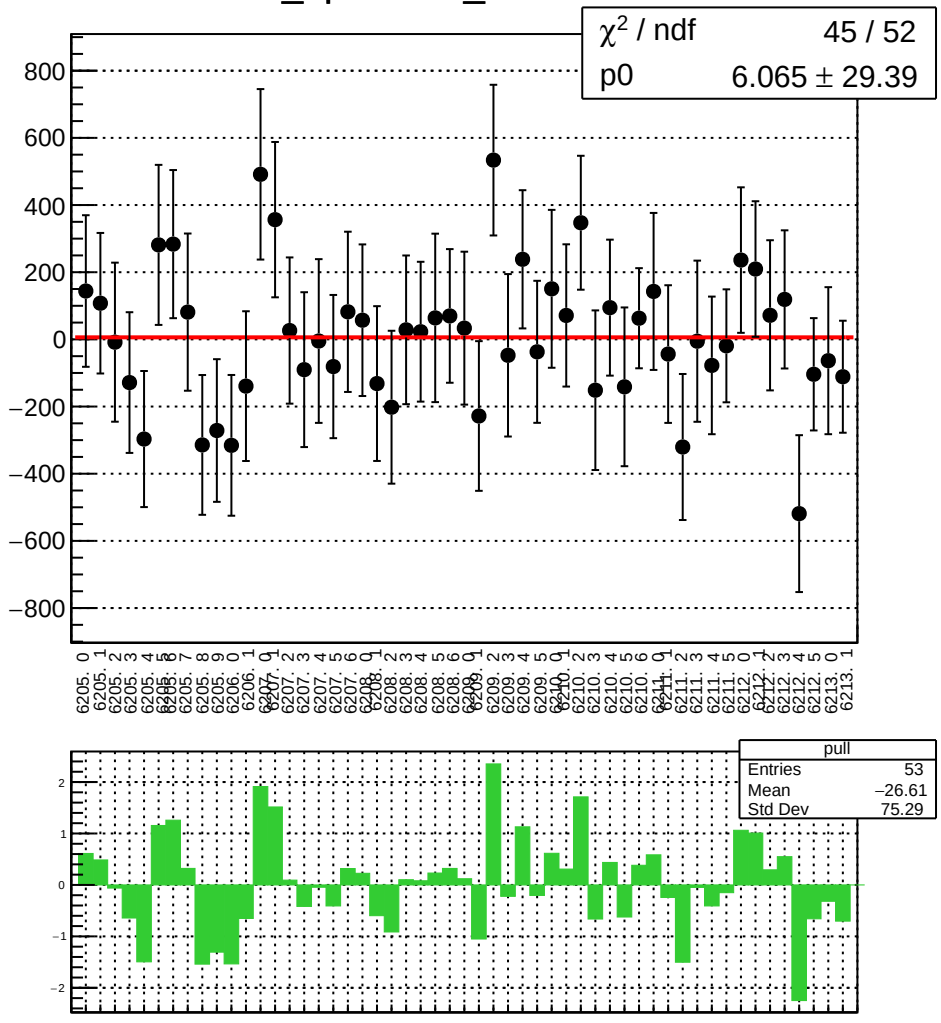
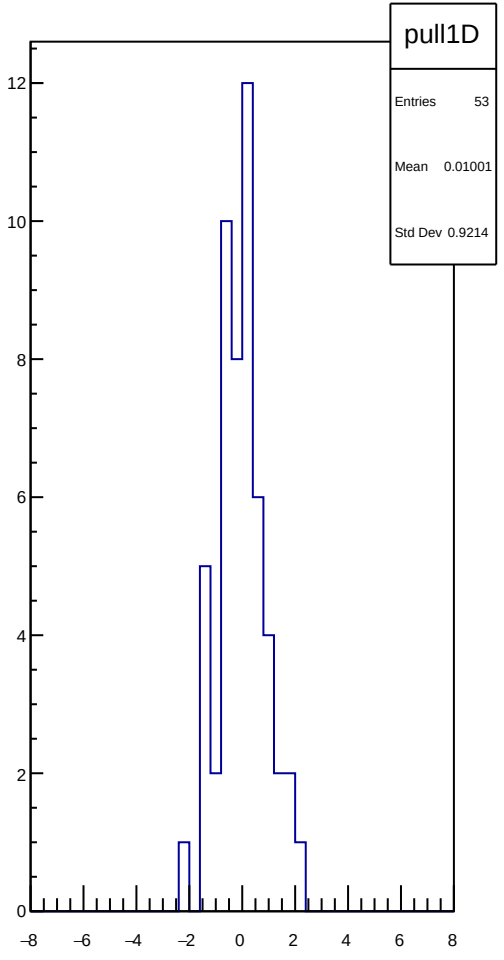
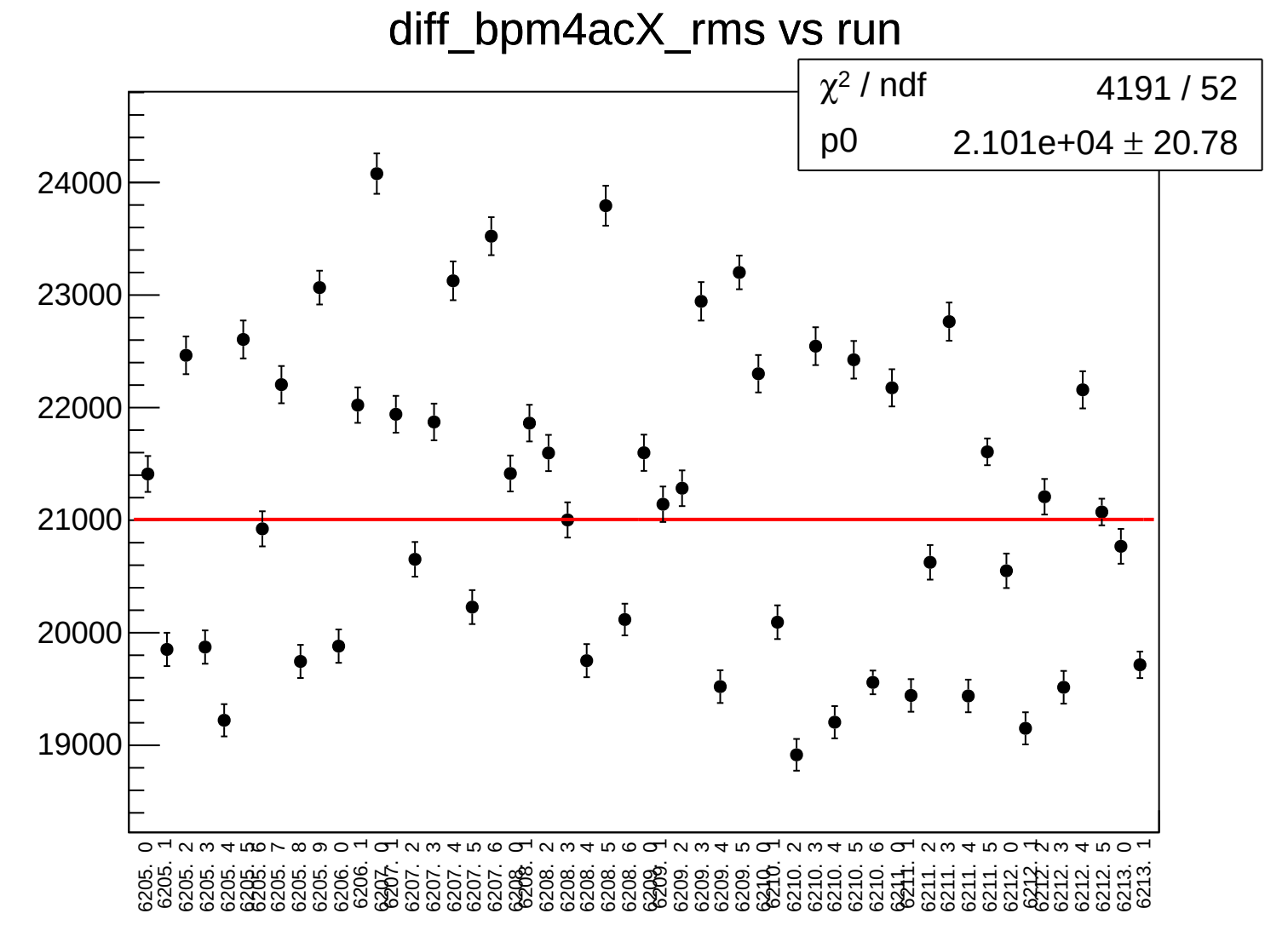
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm4acX_mean vs run
χ² / ndf 45 / 52
p0 6.065 ± 29.39
pull
Entries 53
Mean −26.61
Std Dev 75.29


pull1D
Entries 53
Mean 0.01001
Std Dev 0.9214


diff_bpm4acX_rms vs run
χ² / ndf 4191 / 52
p0 2.101e+04 ± 20.78
24000
23000
22000
21000
20000
19000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
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6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
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6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
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6210. 2
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6210. 4
6210. 5
6210. 6
6211. 0
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6211. 3
6211. 4
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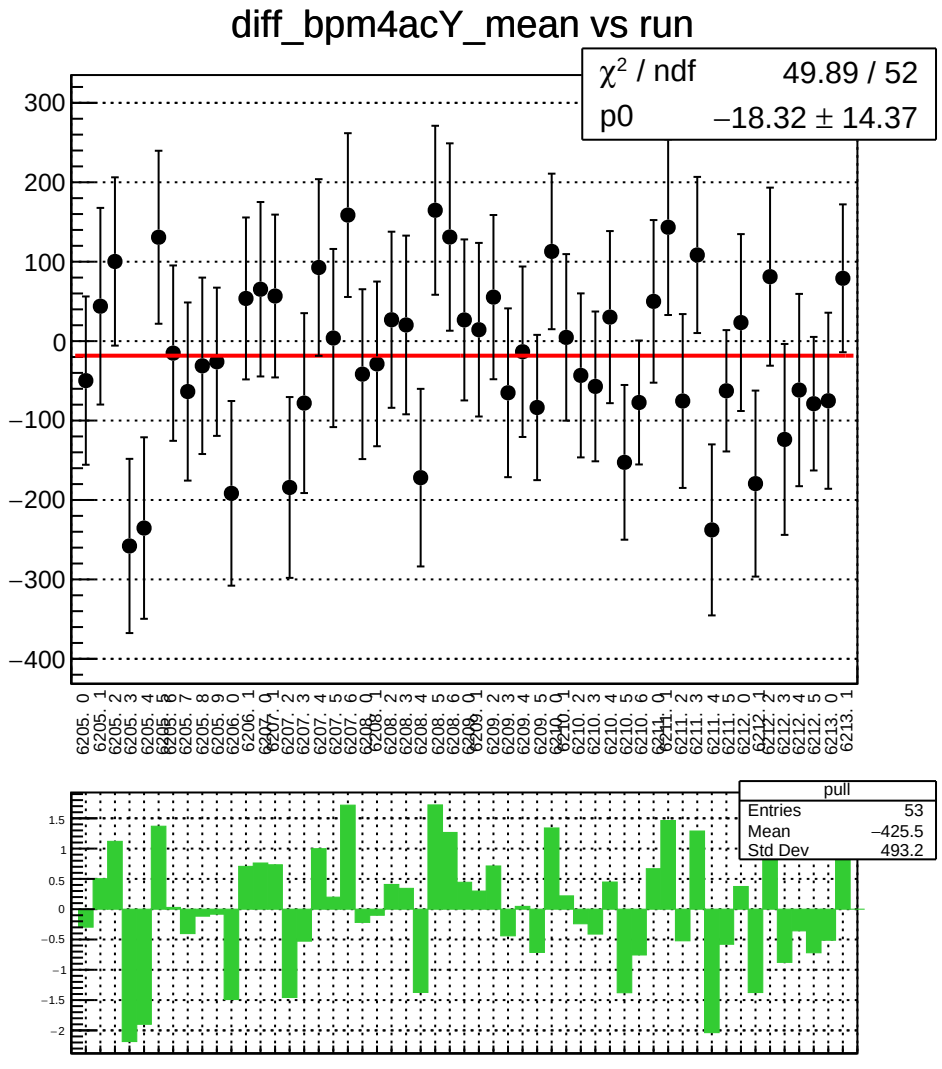
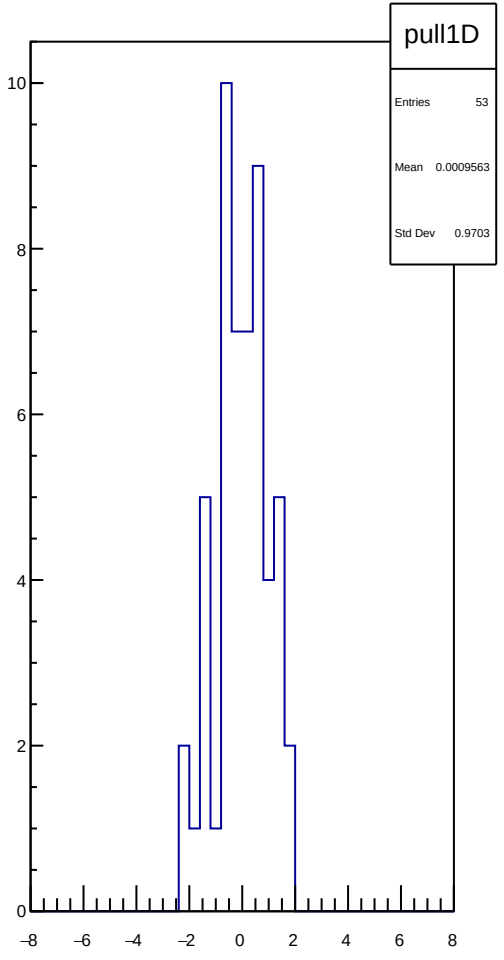
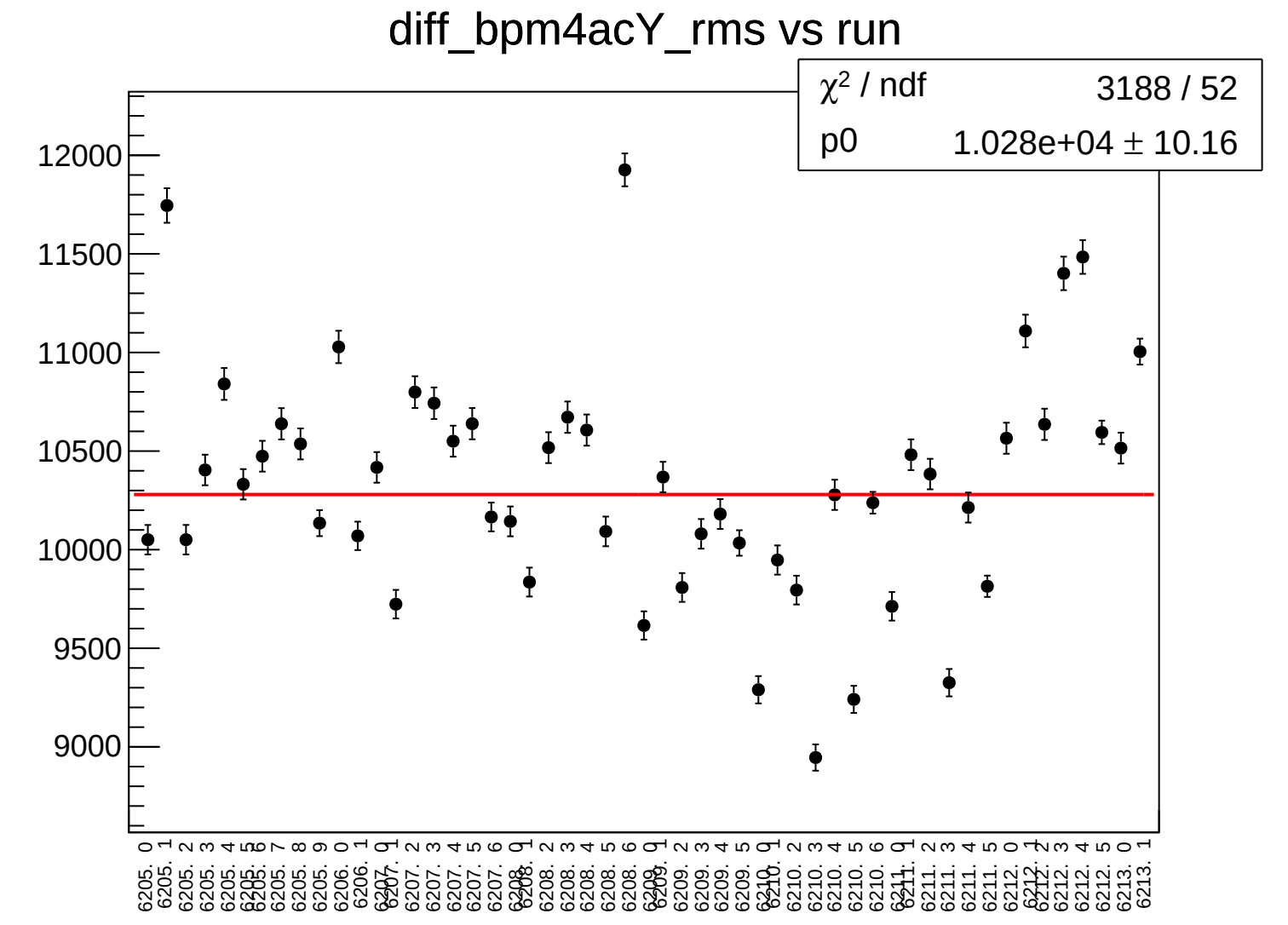
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm4acY_mean vs run
χ² / ndf 49.89 / 52
p0 −18.32 ± 14.37
pull
Entries 53
Mean −425.5
Std Dev 493.2


pull1D
Entries 53
Mean 0.0009563
Std Dev 0.9703


diff_bpm4acY_rms vs run
χ² / ndf 3188 / 52
p0 1.028e+04 ± 10.16
12000
11500
11000
10500
10000
9500
9000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
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6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
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6211. 3
6211. 4
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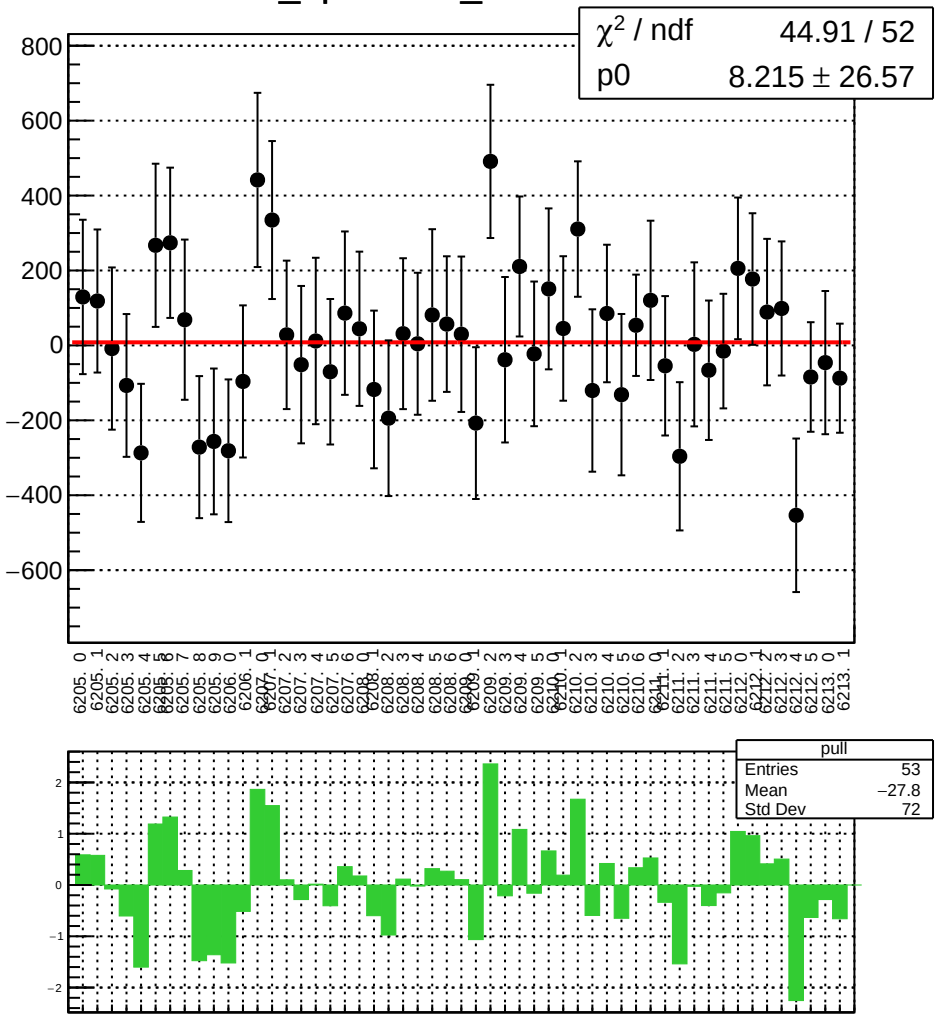
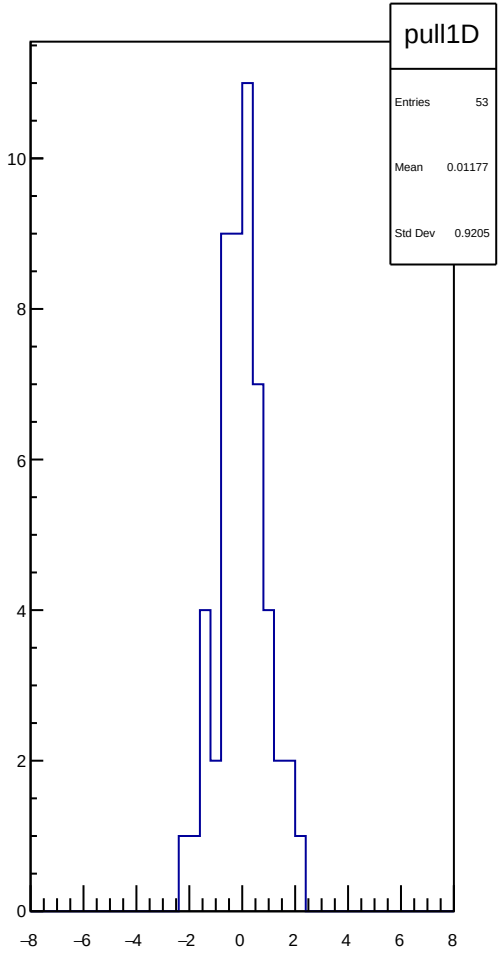
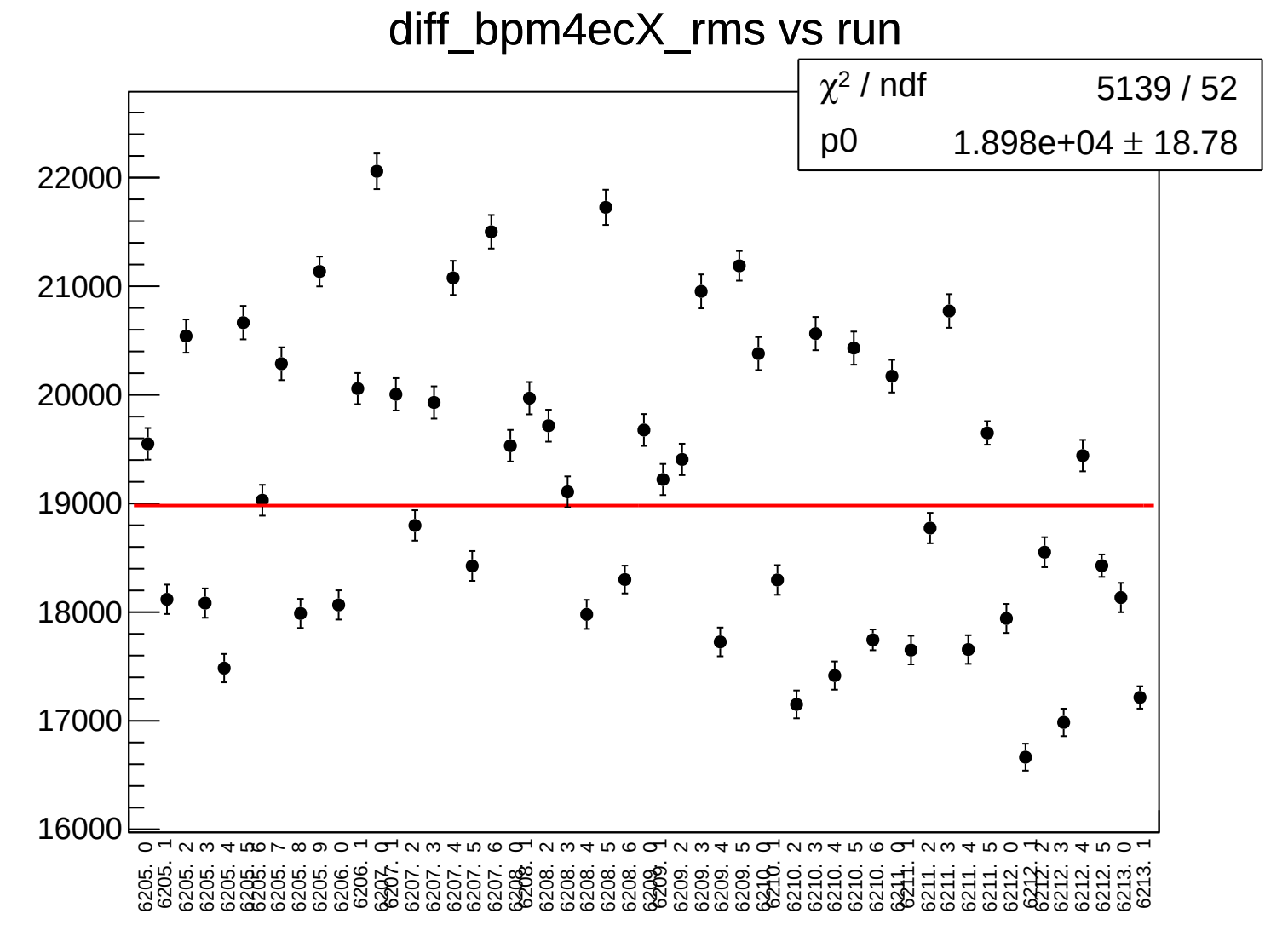
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm4ecX_mean vs run
χ² / ndf 44.91 / 52
p0 8.215 ± 26.57
pull
Entries 53
Mean −27.8
Std Dev 72


pull1D
Entries 53
Mean 0.01177
Std Dev 0.9205


diff_bpm4ecX_rms vs run
χ² / ndf 5139 / 52
p0 1.898e+04 ± 18.78
22000
21000
20000
19000
18000
17000
16000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
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6208. 3
6208. 4
6208. 5
6208. 6
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6210. 4
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6210. 6
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6211. 4
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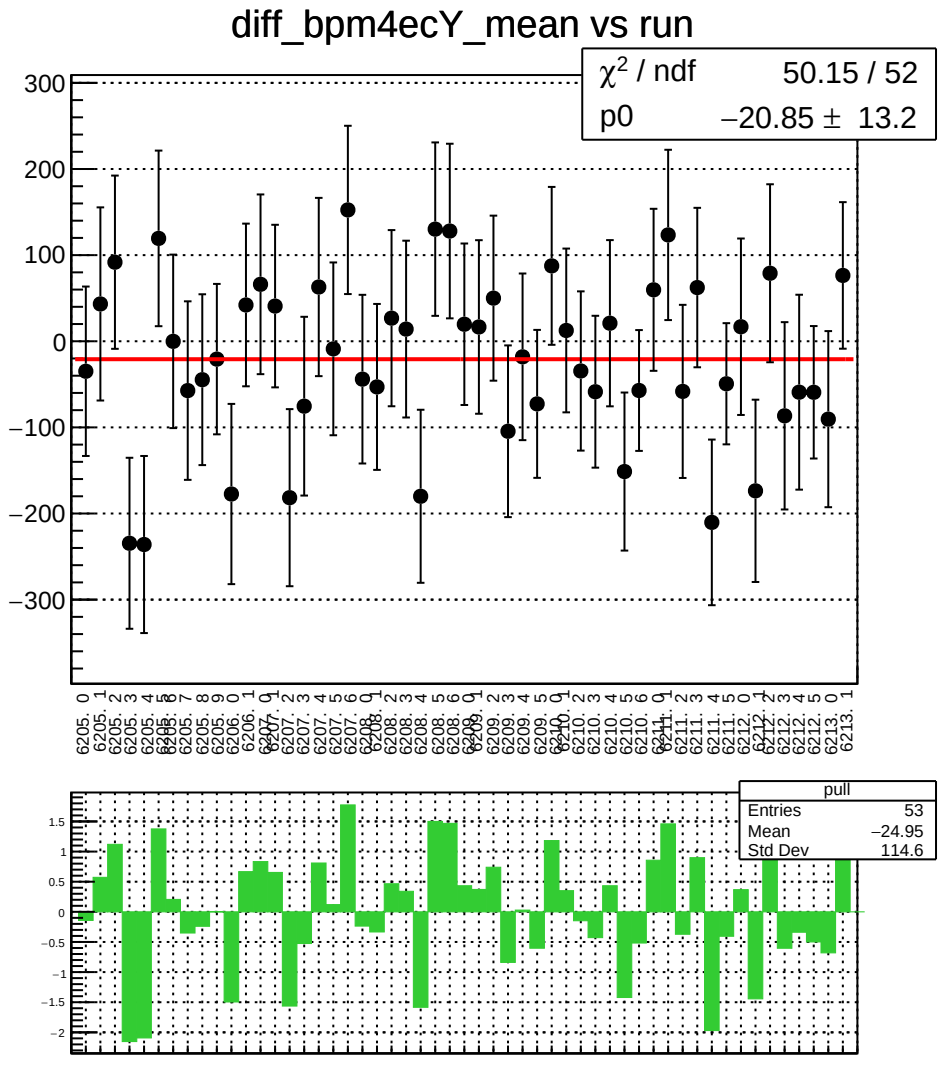
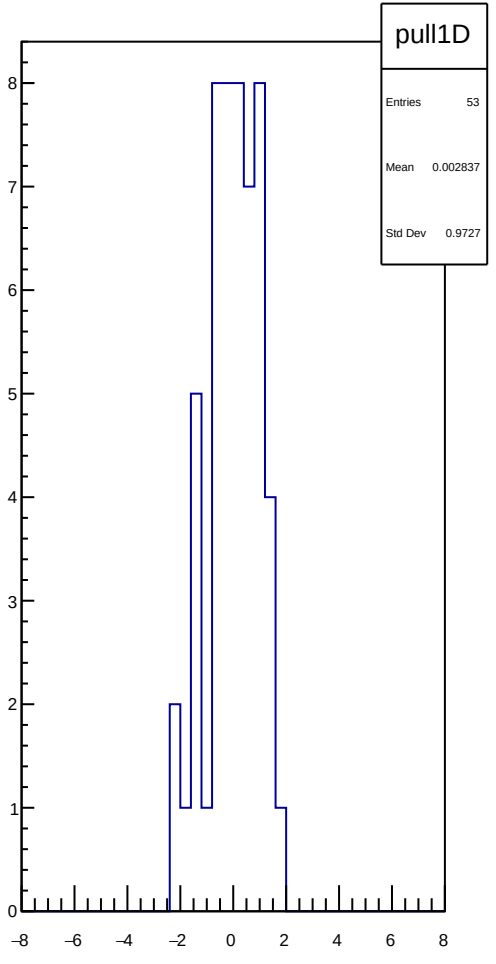
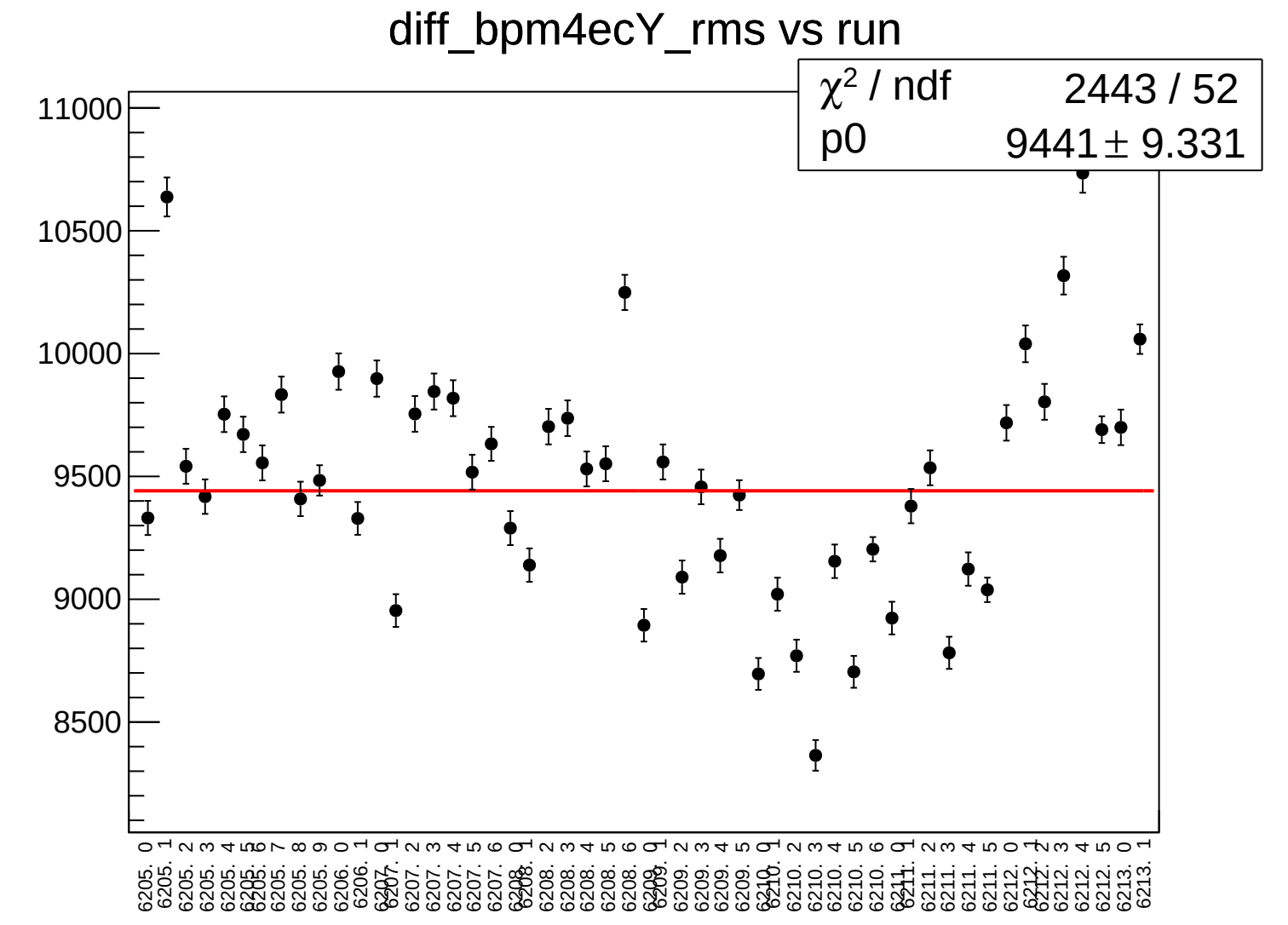
6213. 1


diff_bpm4ecY_mean vs run
χ² / ndf 50.15 / 52
p0 −20.85 ± 13.2
pull
Entries 53
Mean −24.95
Std Dev 114.6


pull1D
Entries 53
Mean 0.002837
Std Dev 0.9727


diff_bpm4ecY_rms vs run
χ² / ndf 2443 / 52
p0 9441 ± 9.331
11000
10500
10000
9500
9000
8500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
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6208. 5
6208. 6
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6209. 5
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6210. 4
6210. 5
6210. 6
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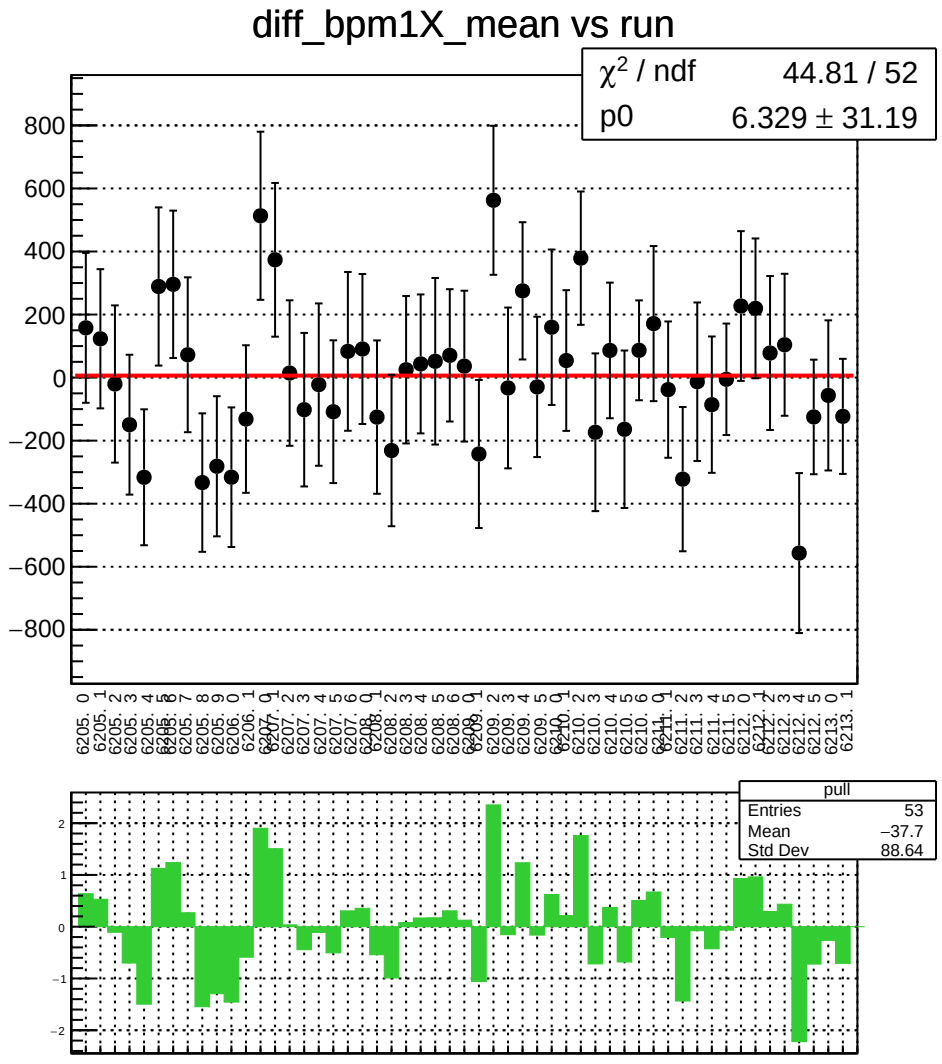
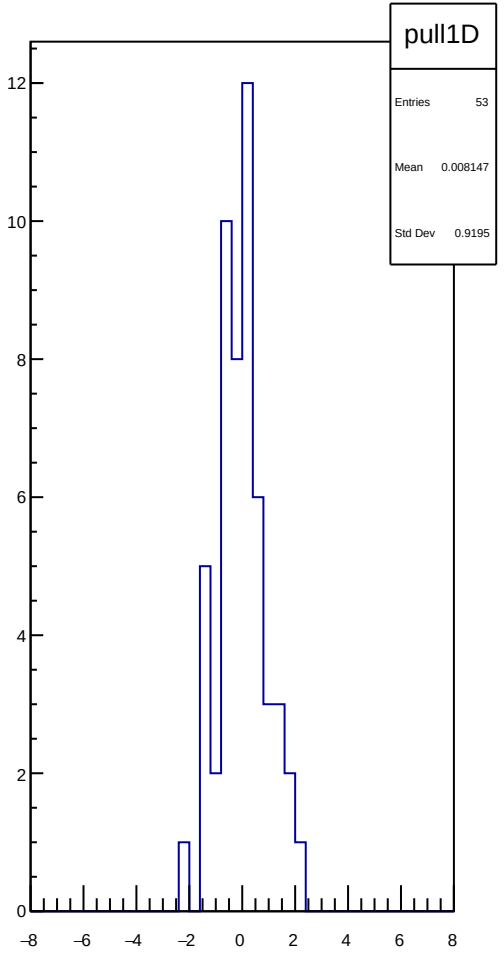
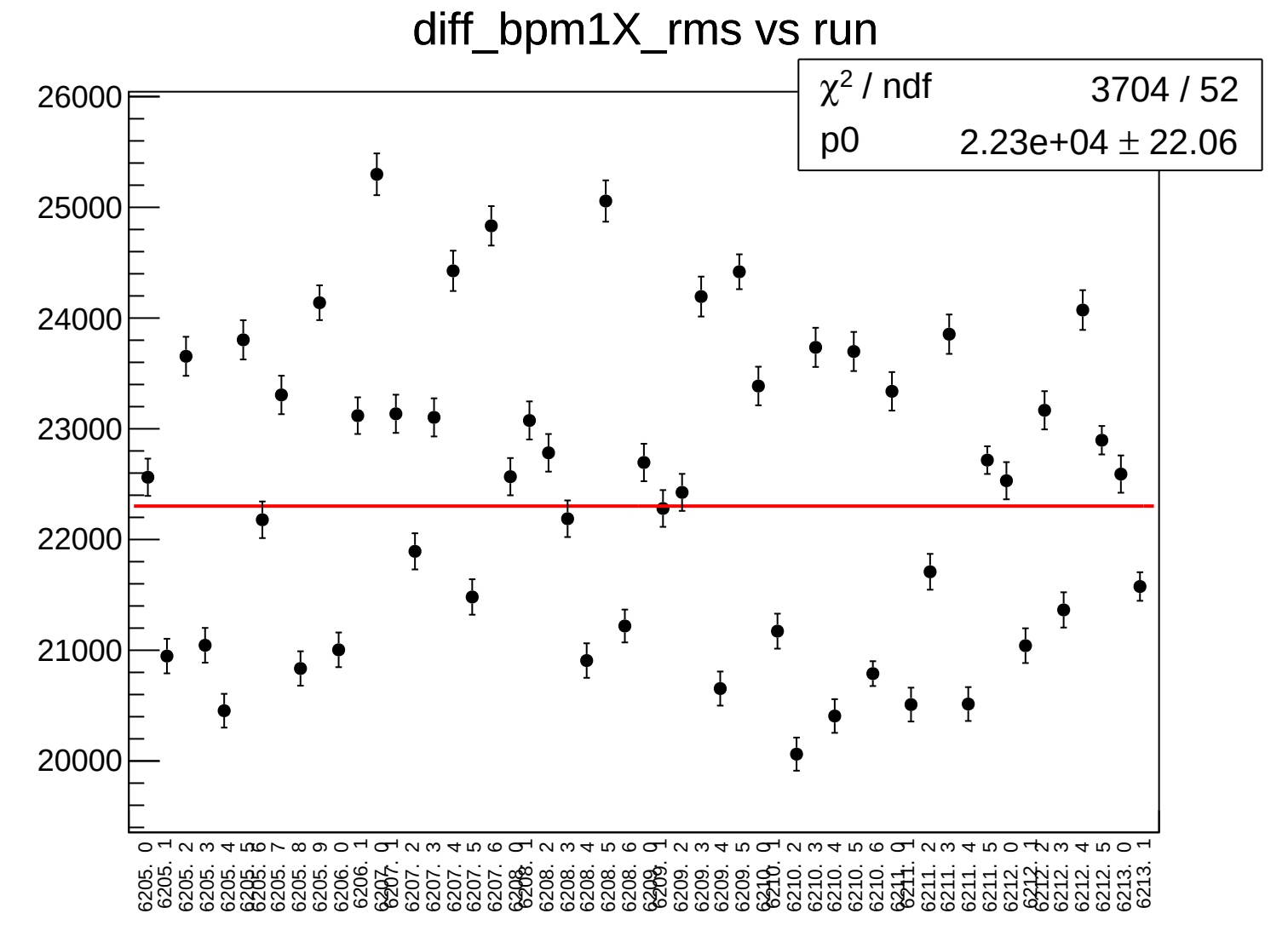
6213. 0
6213. 1


diff_bpm1X_mean vs run
χ² / ndf 44.81 / 52
p0 6.329 ± 31.19
pull
Entries 53
Mean −37.7
Std Dev 88.64


pull1D
Entries 53
Mean 0.008147
Std Dev 0.9195


diff_bpm1X_rms vs run
χ² / ndf 3704 / 52
p0 2.23e+04 ± 22.06
26000
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24000
23000
22000
21000
20000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
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6205. 8
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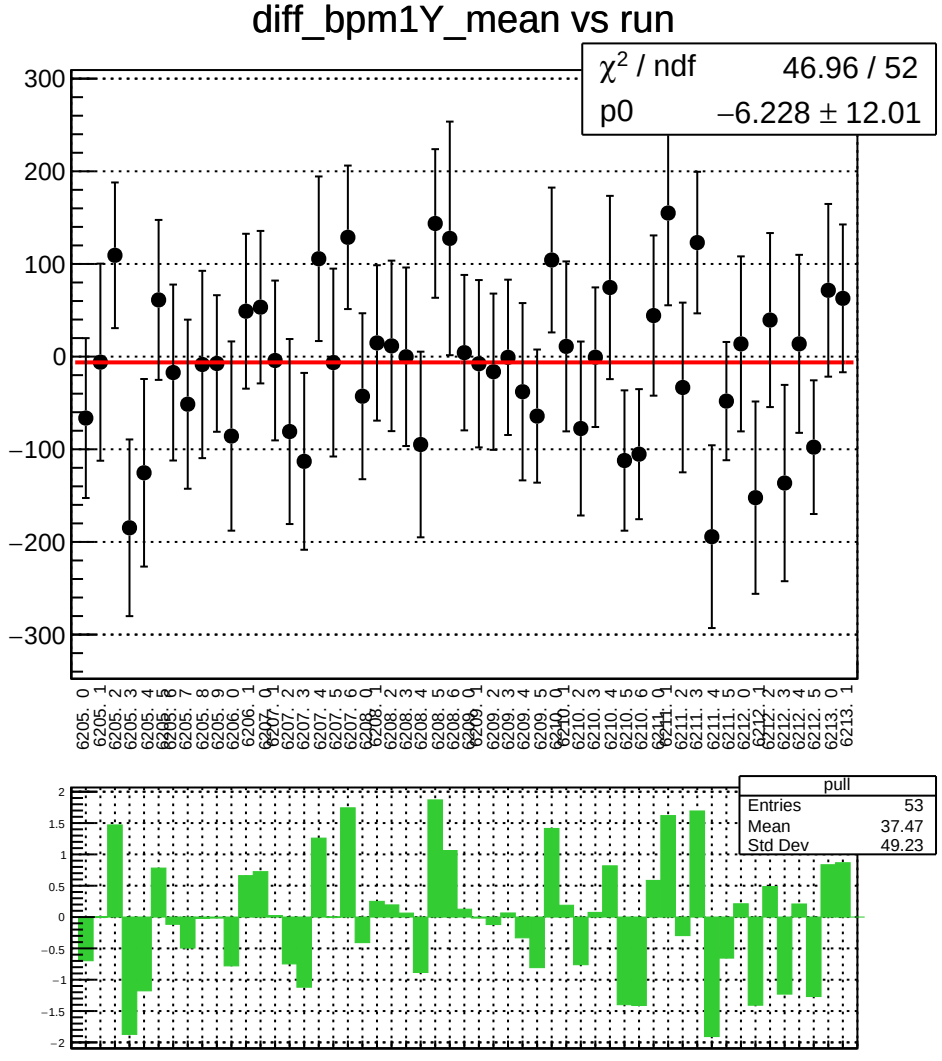
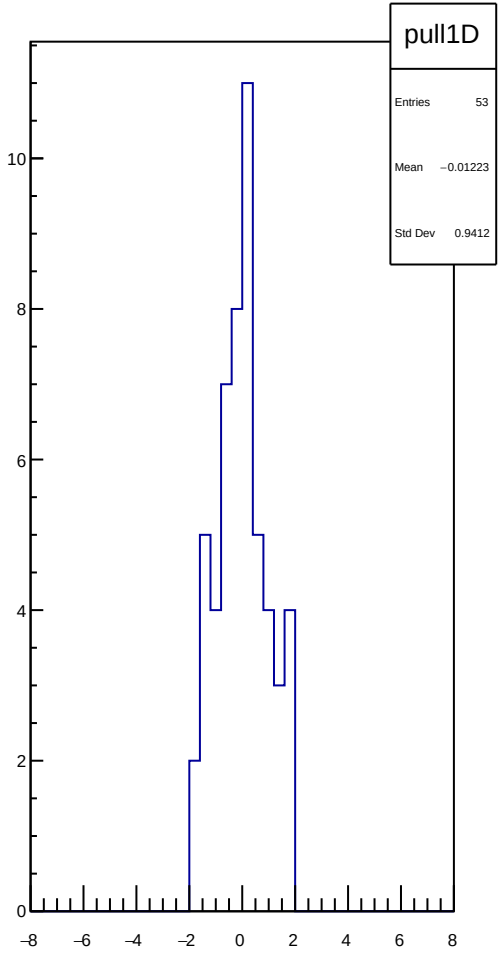
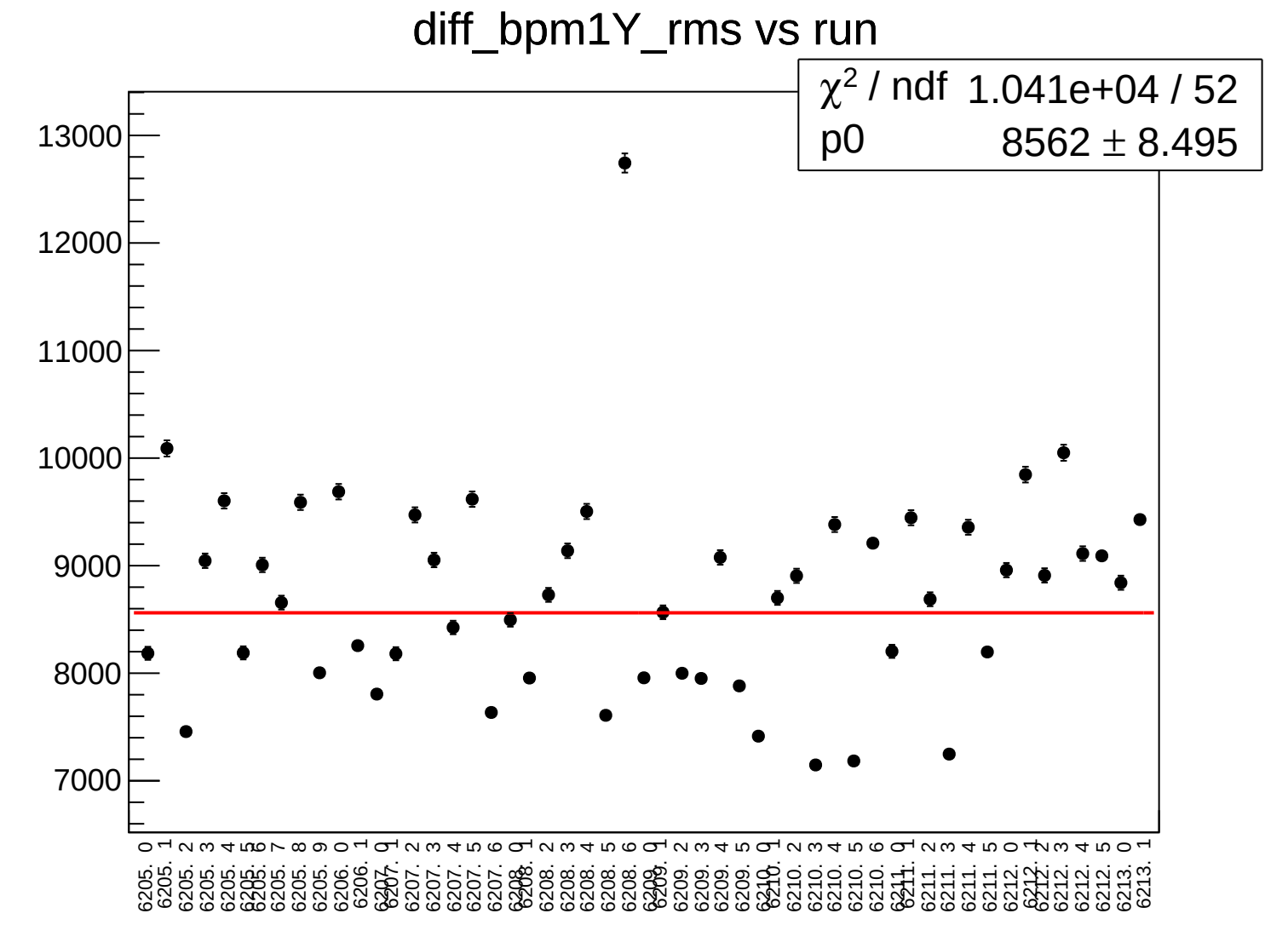
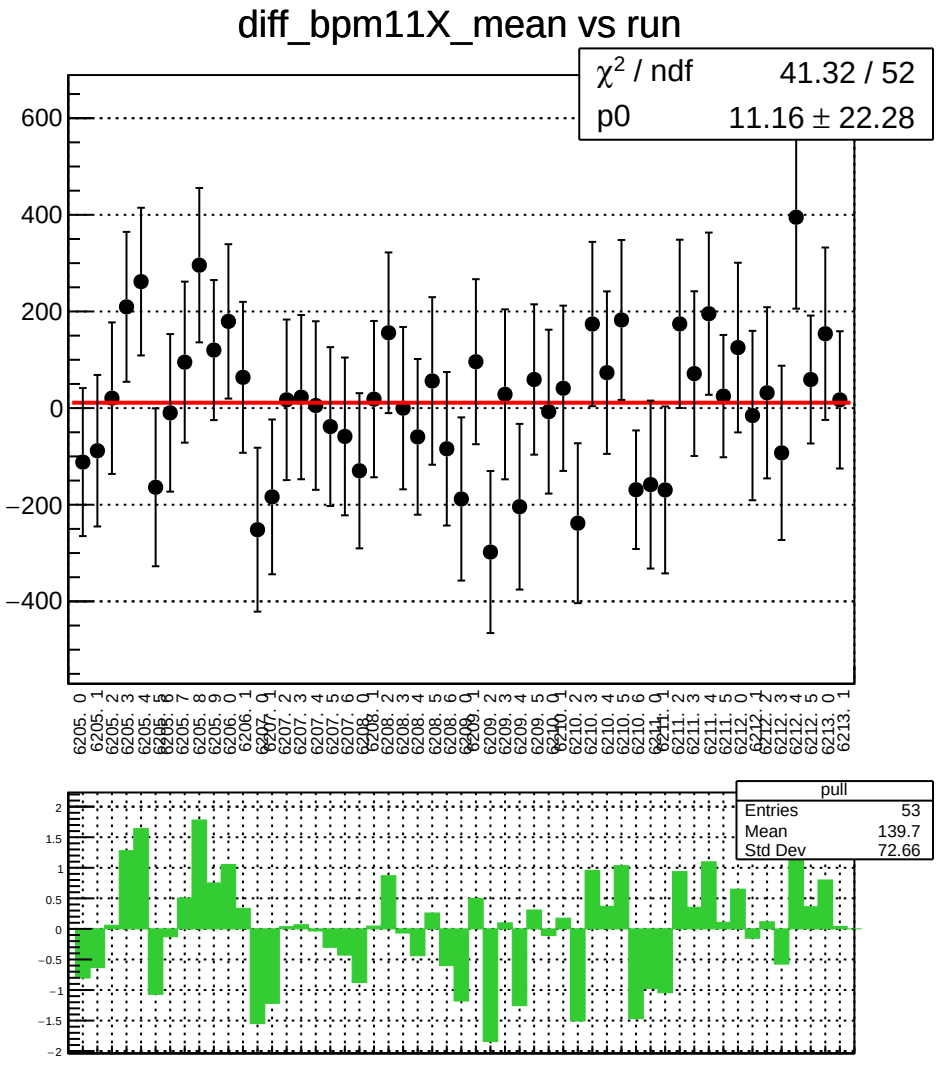
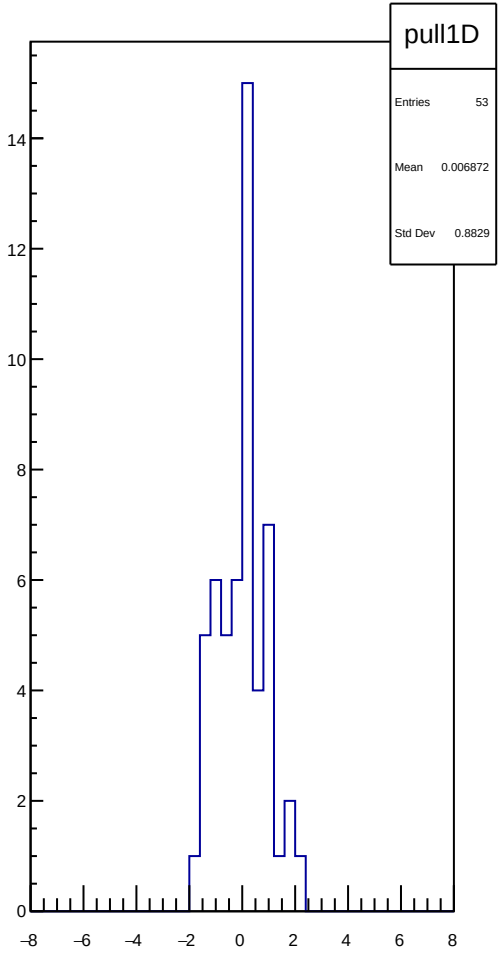
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

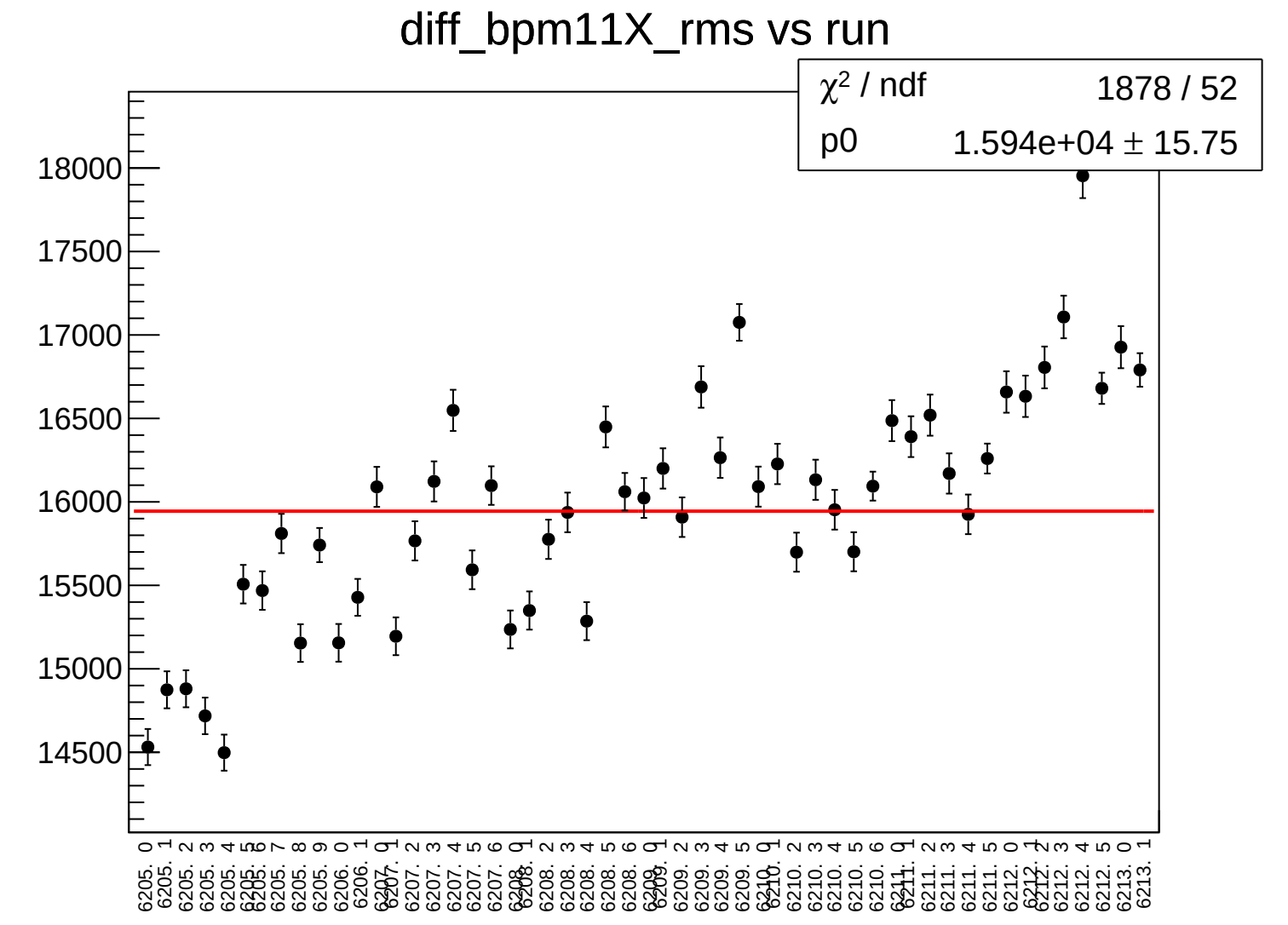

diff_bpm1Y_mean vs run
χ² / ndf 46.96 / 52
p0 −6.228 ± 12.01
pull
Entries 53
Mean 37.47
Std Dev 49.23

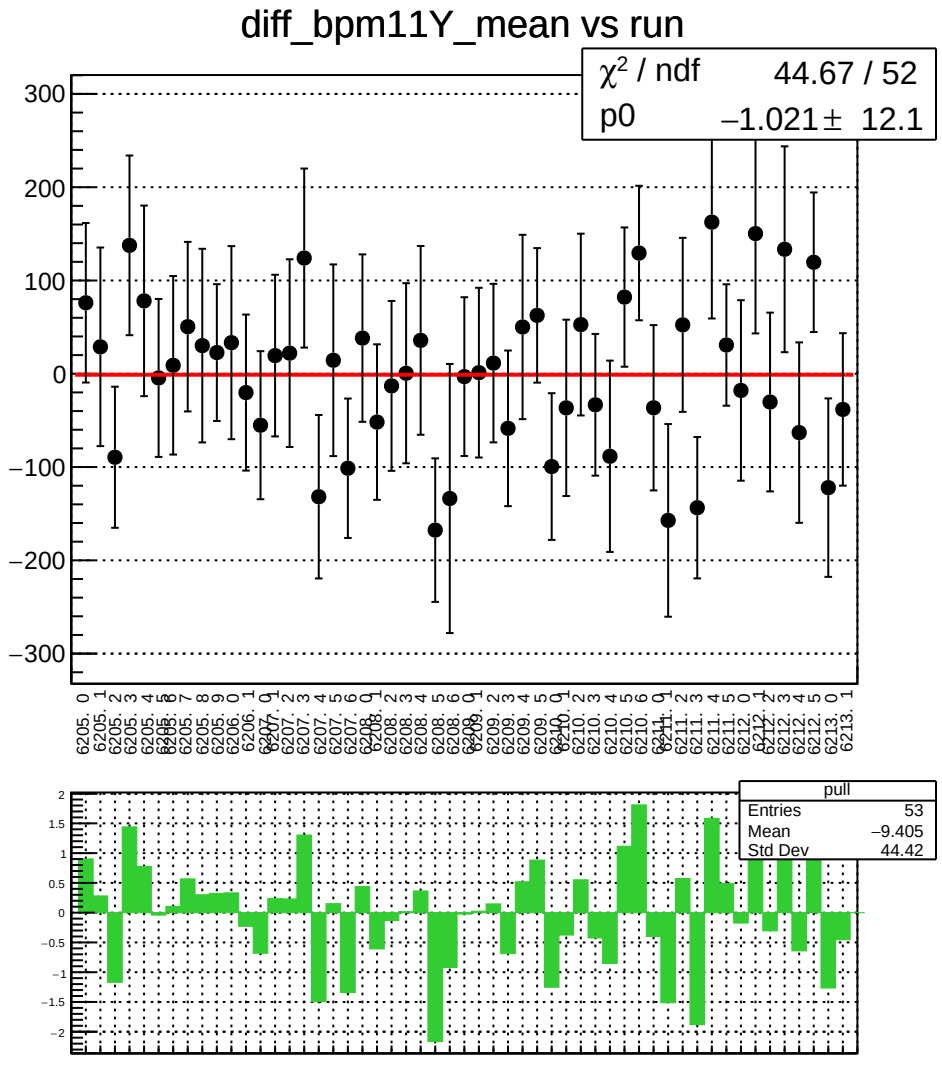

pull1D
Entries 53
Mean −0.01223
Std Dev 0.9412

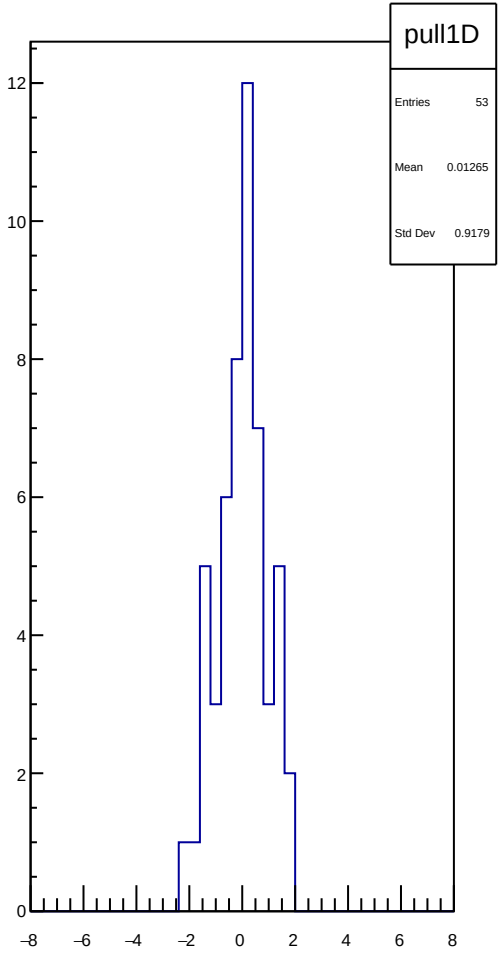

diff_bpm1Y_rms vs run
χ² / ndf 1.041e+04 / 52
p0 8562 ± 8.495
13000
12000
11000
10000
9000
8000
7000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6212. 6
6212. 7
6212. 8
6212. 9
6213. 0
6213. 1

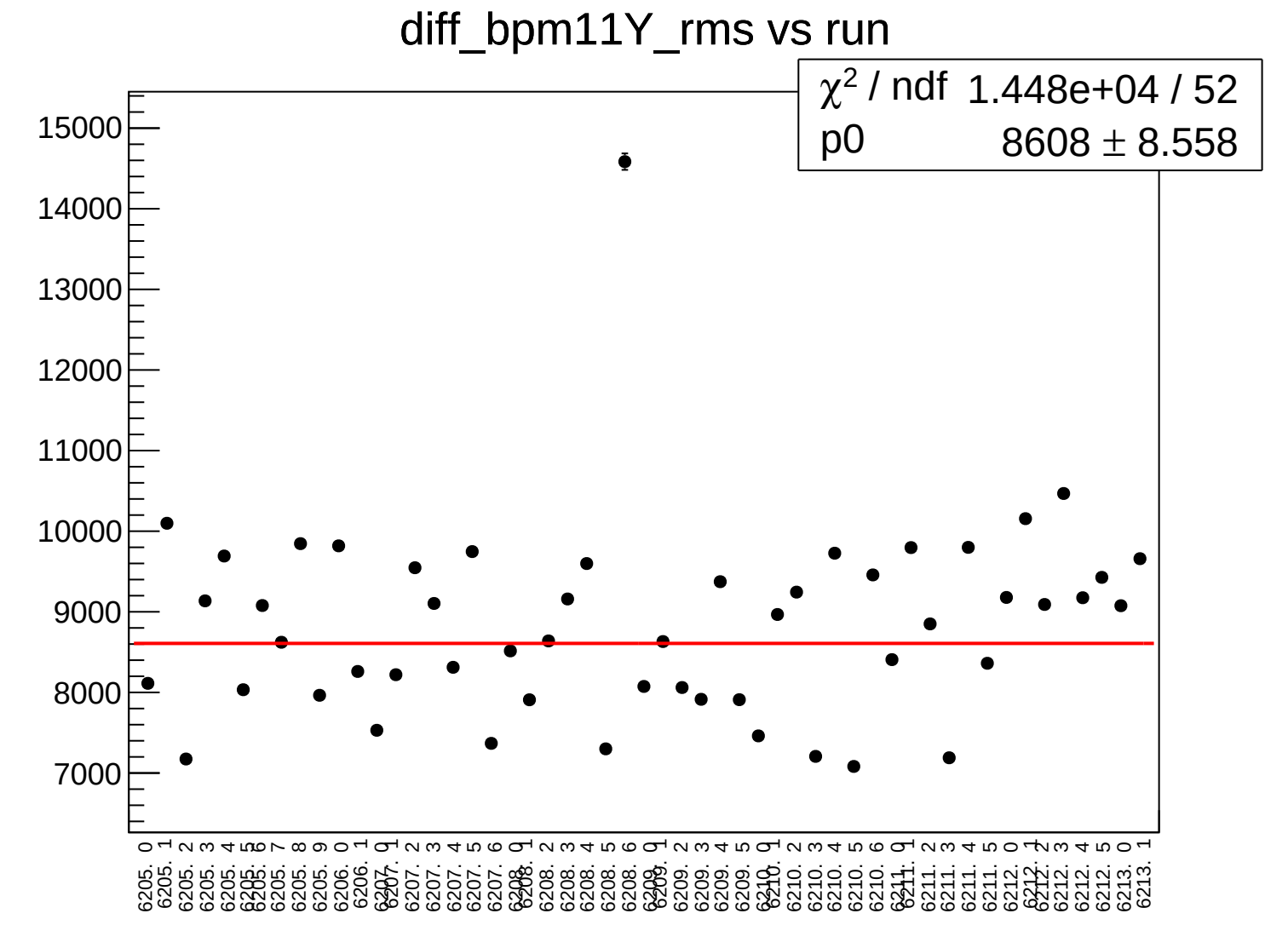

diff_bpm11X_mean vs run
χ^2 / ndf 41.32 / 52
p0 11.16 ± 22.28
600
400
200
0
−200
−400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1
pull
Entries 53
Mean 139.7
Std Dev 72.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

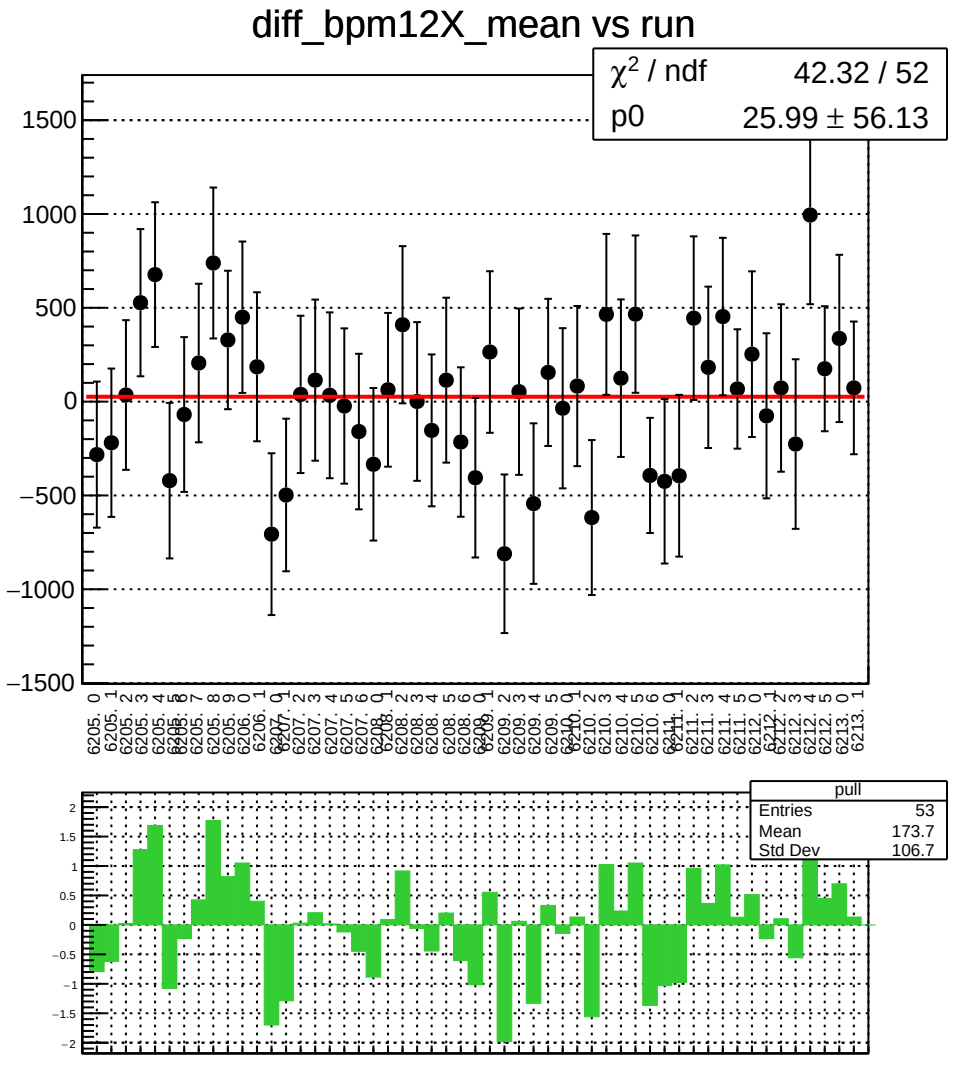

pull1D
Entries 53
Mean 0.006872
Std Dev 0.8829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

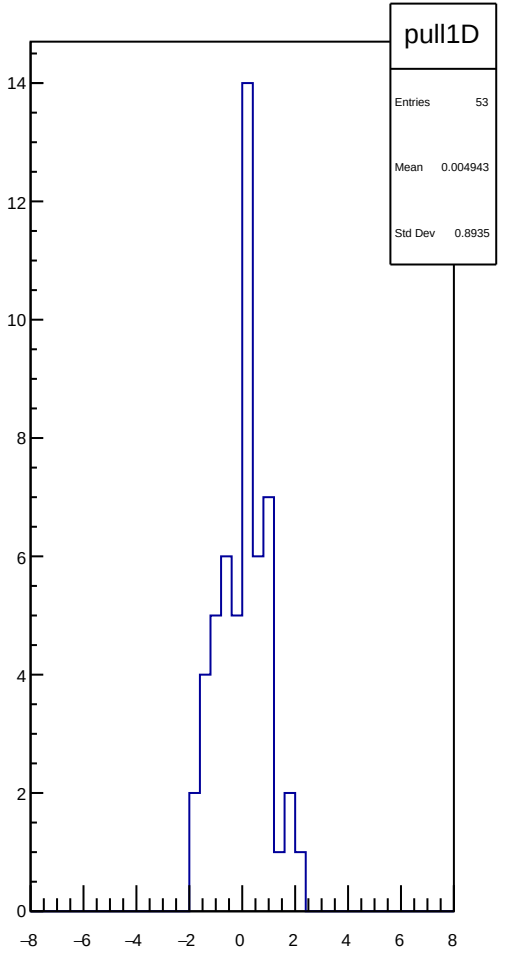

diff_bpm11X_rms vs run
χ² / ndf 1878 / 52
p0 1.594e+04 ± 15.75
18000
17500
17000
16500
16000
15500
15000
14500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

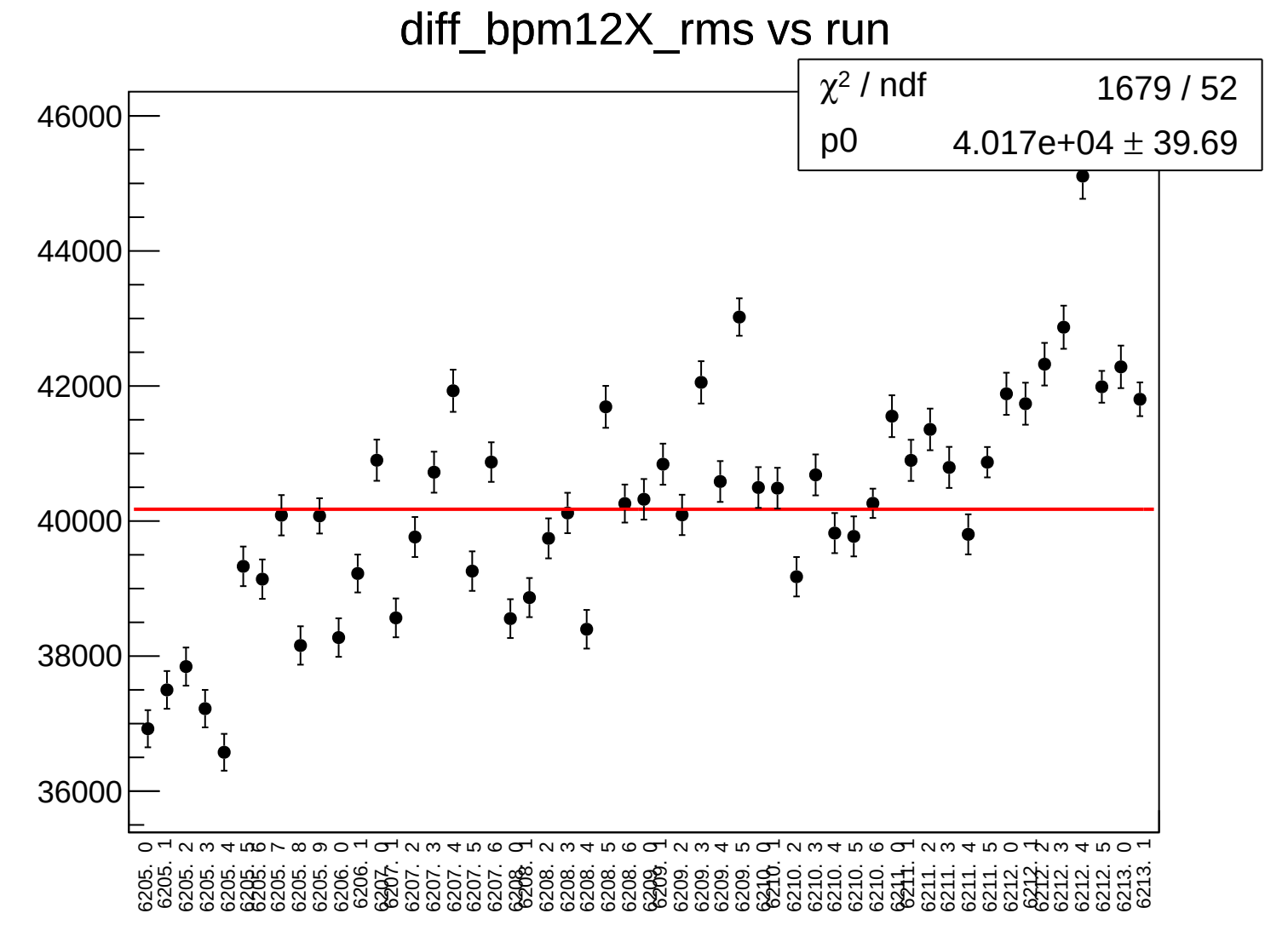

diff_bpm11Y_mean vs run
χ² / ndf 44.67 / 52
p0 −1.021 ± 12.1
pull
Entries 53
Mean −9.405
Std Dev 44.42

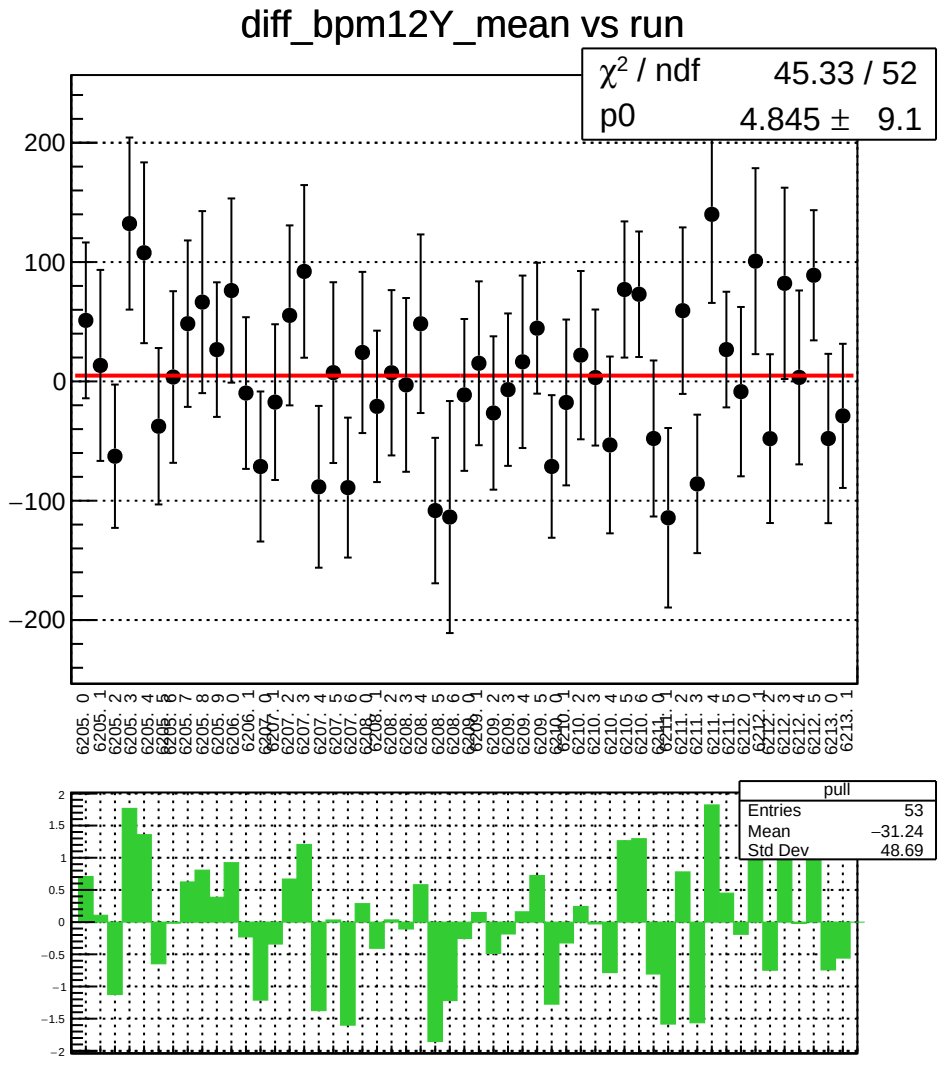

pull1D
Entries 53
Mean 0.01265
Std Dev 0.9179

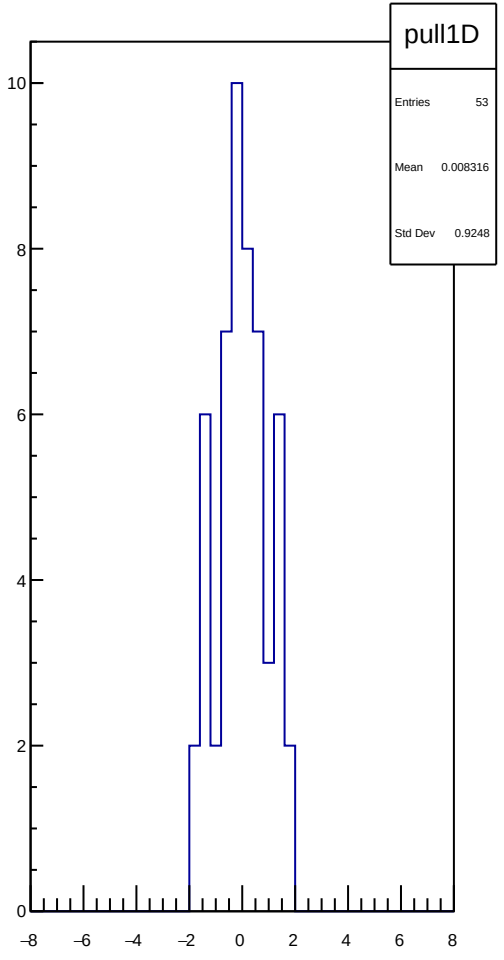

diff_bpm11Y_rms vs run
χ² / ndf 1.448e+04 / 52
p0 8608 ± 8.558
15000
14000
13000
12000
11000
10000
9000
8000
7000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

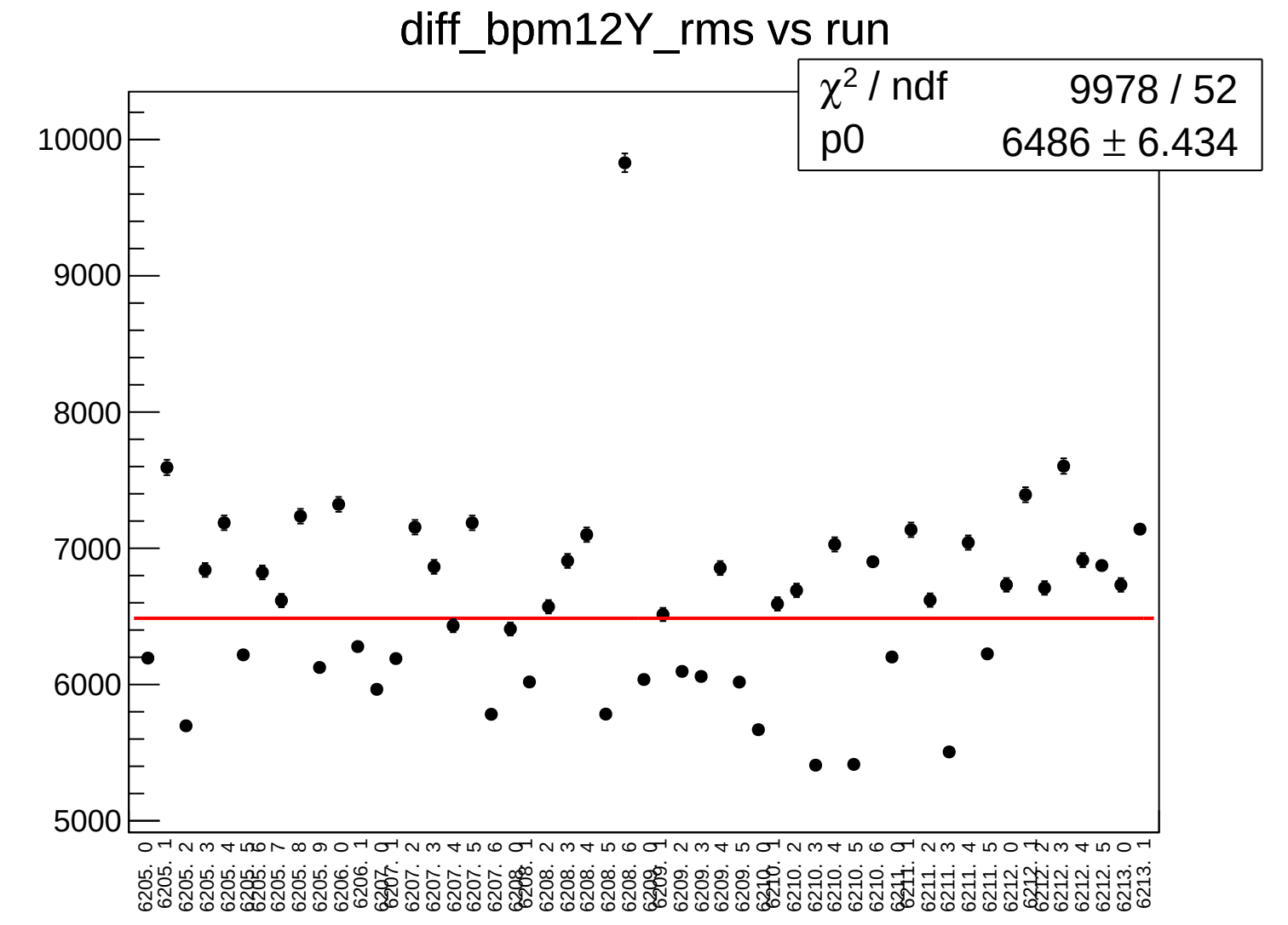

diff_bpm12X_mean vs run
χ² / ndf 42.32 / 52
p0 25.99 ± 56.13
pull
Entries 53
Mean 173.7
Std Dev 106.7

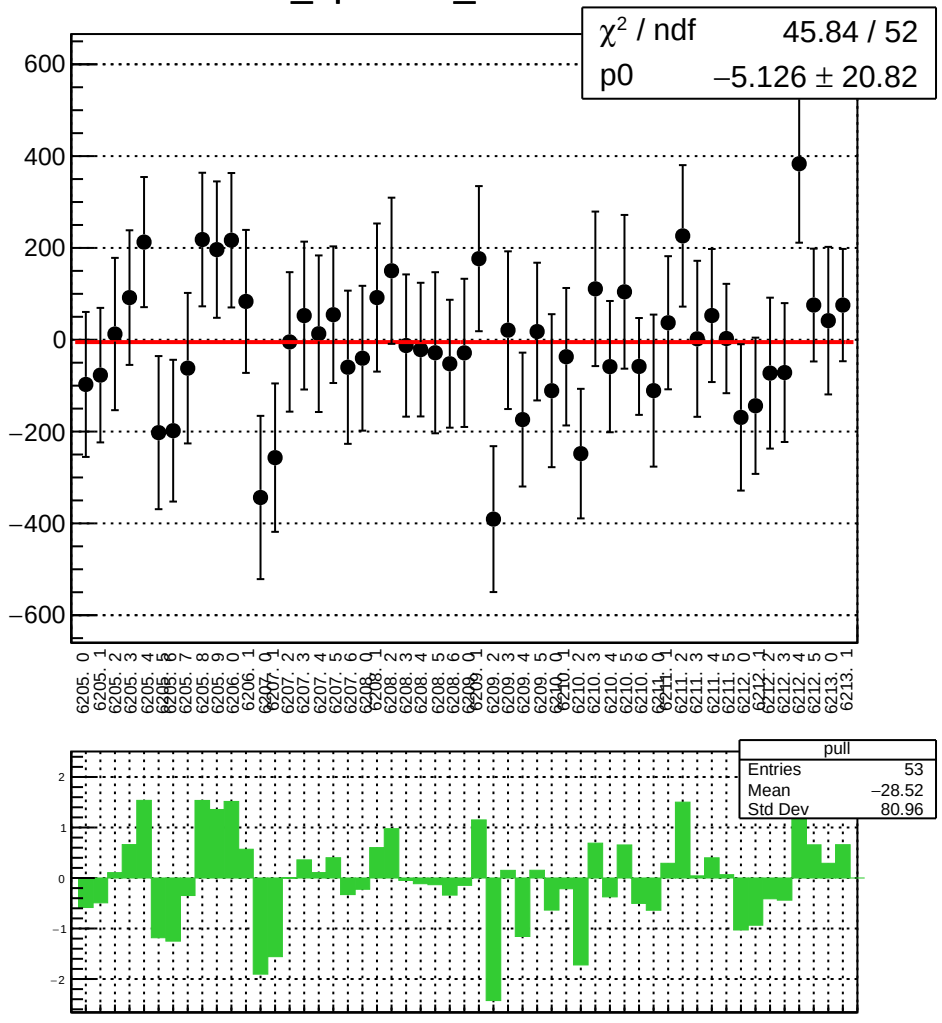

pull1D
Entries 53
Mean 0.004943
Std Dev 0.8935

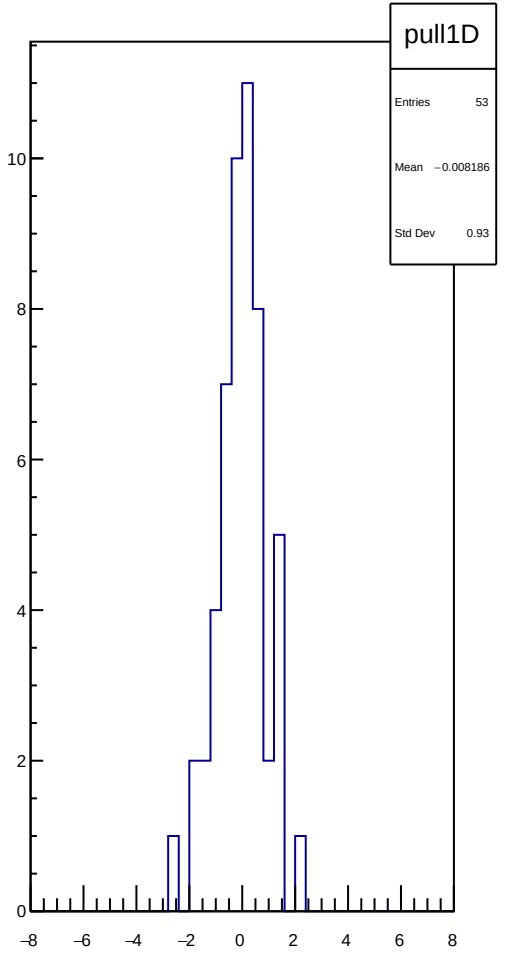

diff_bpm12X_rms vs run
χ² / ndf 1679 / 52
p0 4.017e+04 ± 39.69
46000
44000
42000
40000
38000
36000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

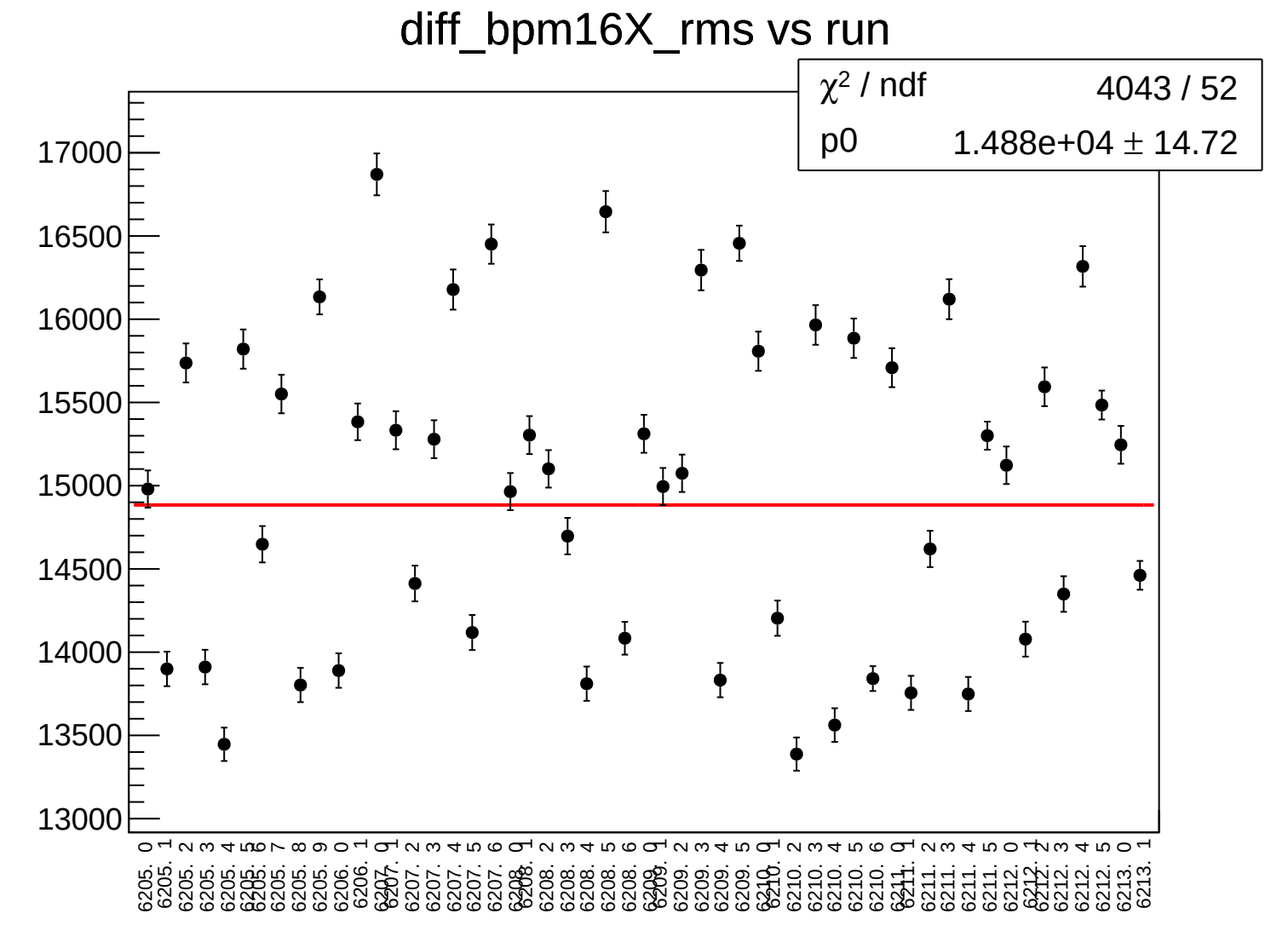

diff_bpm12Y_mean vs run
χ² / ndf 45.33 / 52
p0 4.845 ± 9.1
pull
Entries 53
Mean −31.24
Std Dev 48.69

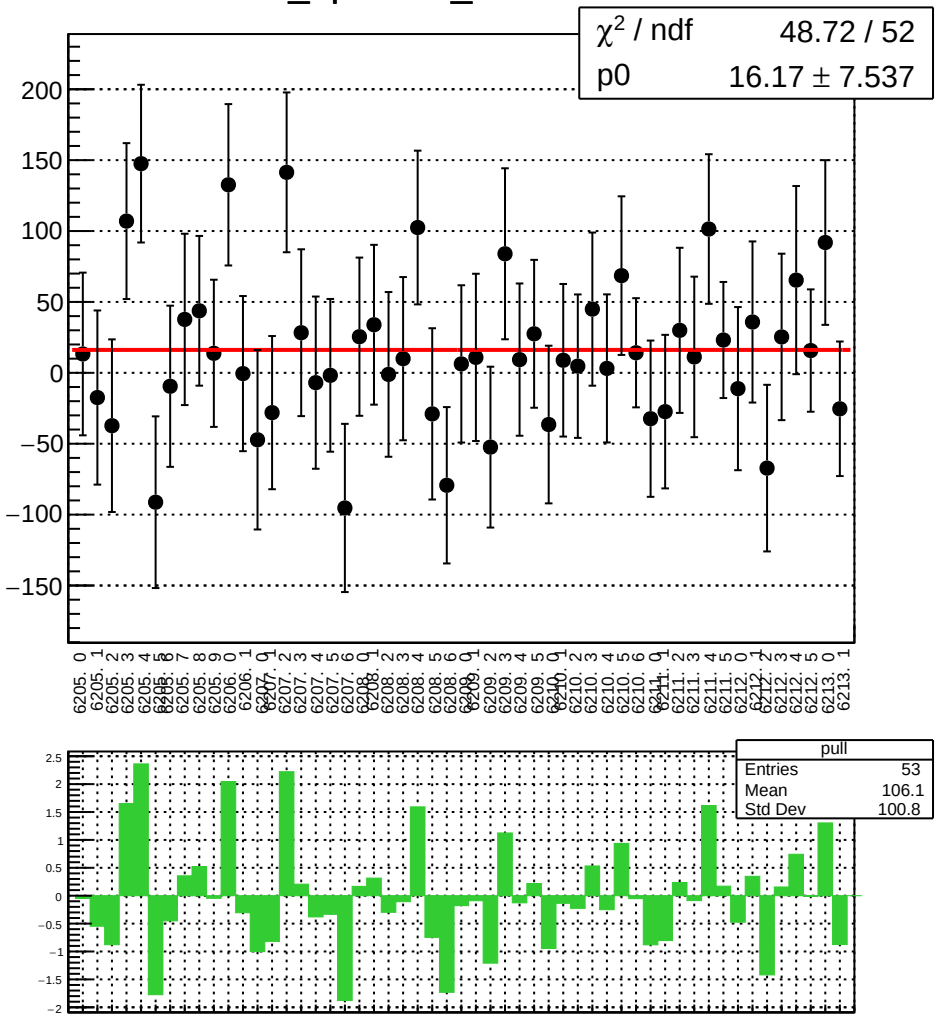

pull1D
Entries 53
Mean 0.008316
Std Dev 0.9248

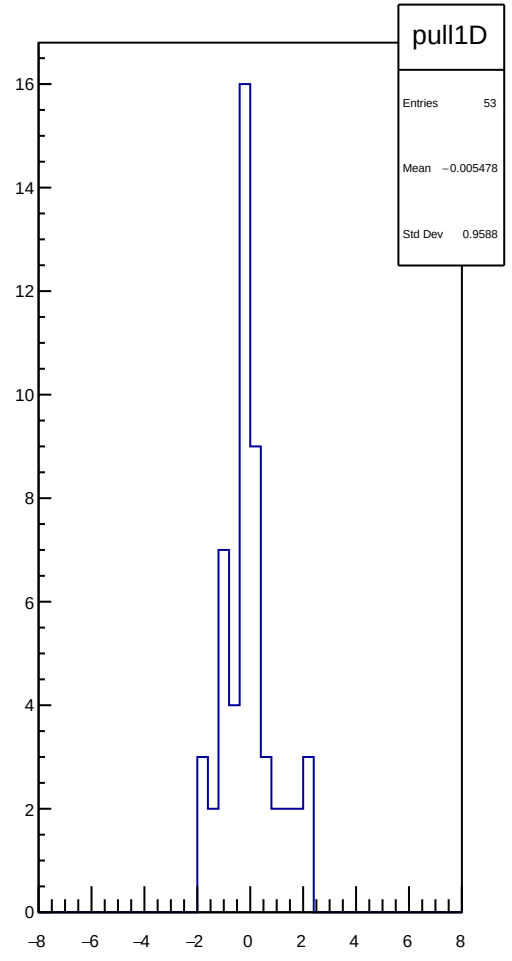

diff_bpm12Y_rms vs run
χ² / ndf 9978 / 52
p0 6486 ± 6.434
10000
9000
8000
7000
6000
5000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

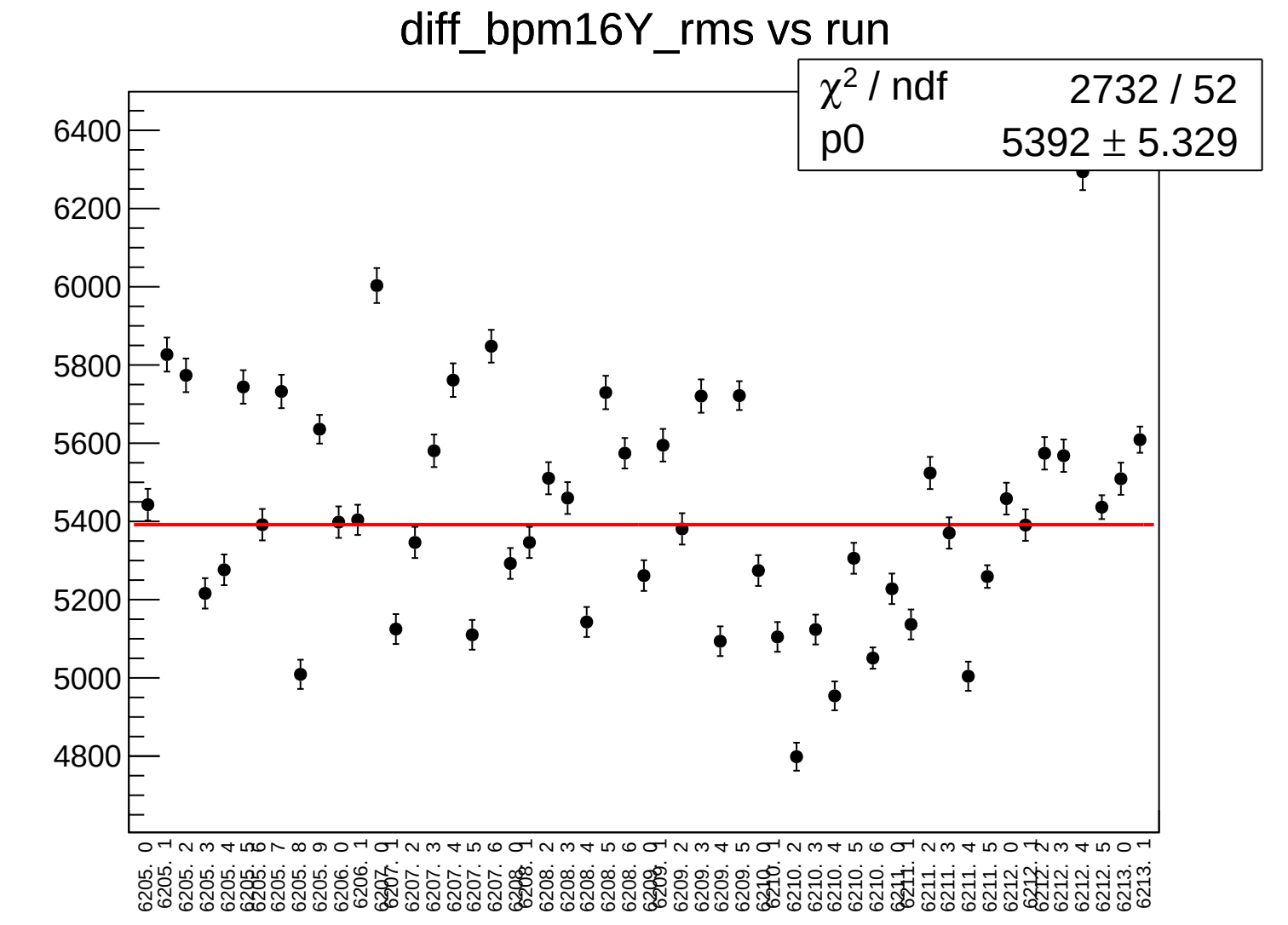

diff_bpm16X_mean vs run
χ² / ndf 45.84 / 52
p0 −5.126 ± 20.82
pull
Entries 53
Mean −28.52
Std Dev 80.96

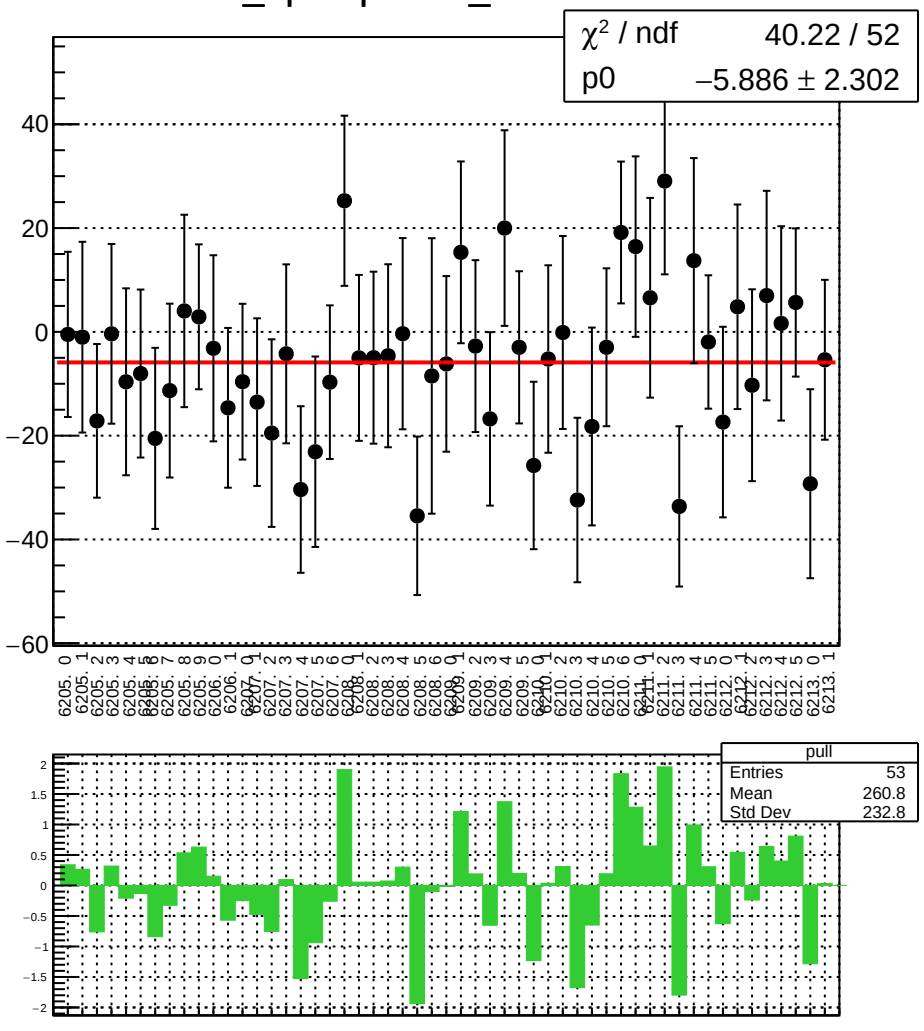

pull1D
Entries 53
Mean −0.008186
Std Dev 0.93

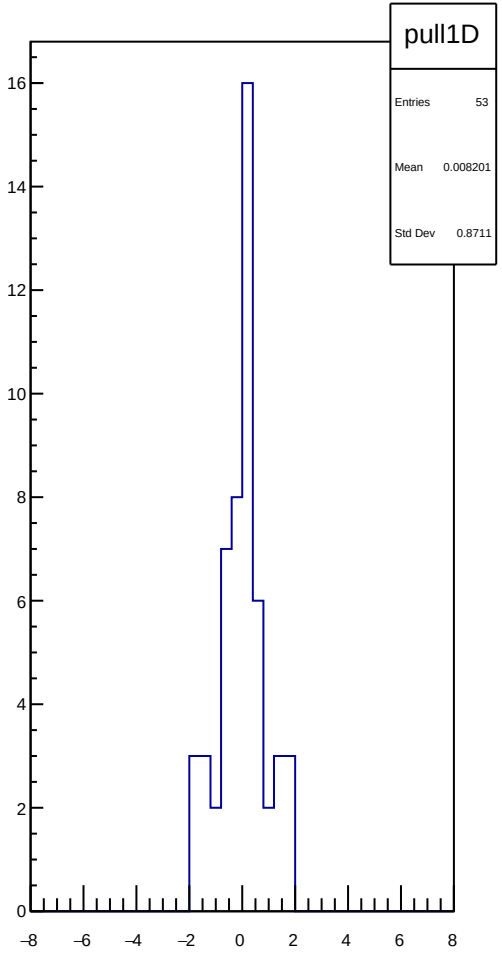

diff_bpm16X_rms vs run
χ² / ndf 4043 / 52
p0 1.488e+04 ± 14.72
17000
16500
16000
15500
15000
14500
14000
13500
13000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

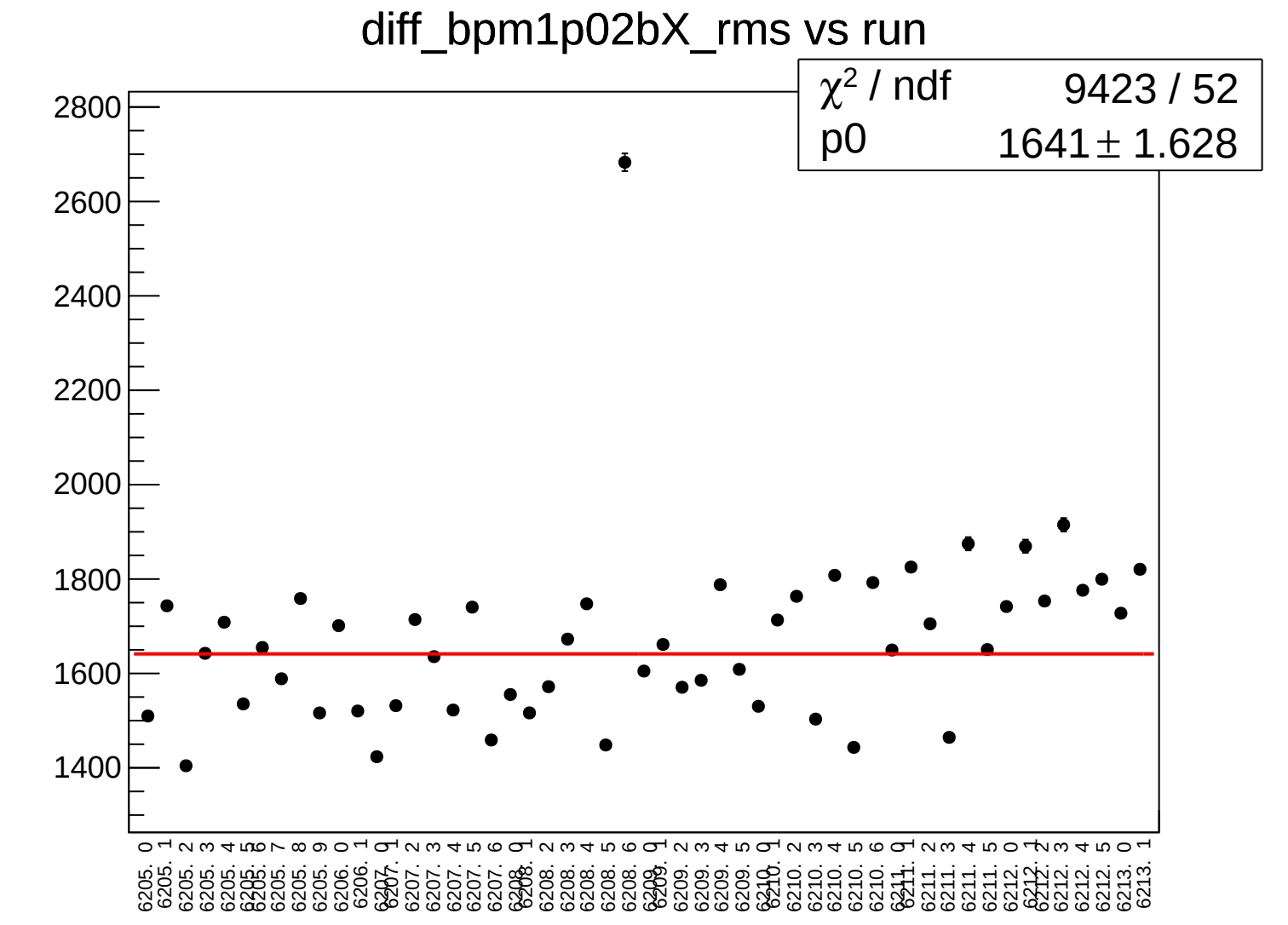

diff_bpm16Y_mean vs run
χ² / ndf 48.72 / 52
p0 16.17 ± 7.537
pull
Entries 53
Mean 106.1
Std Dev 100.8

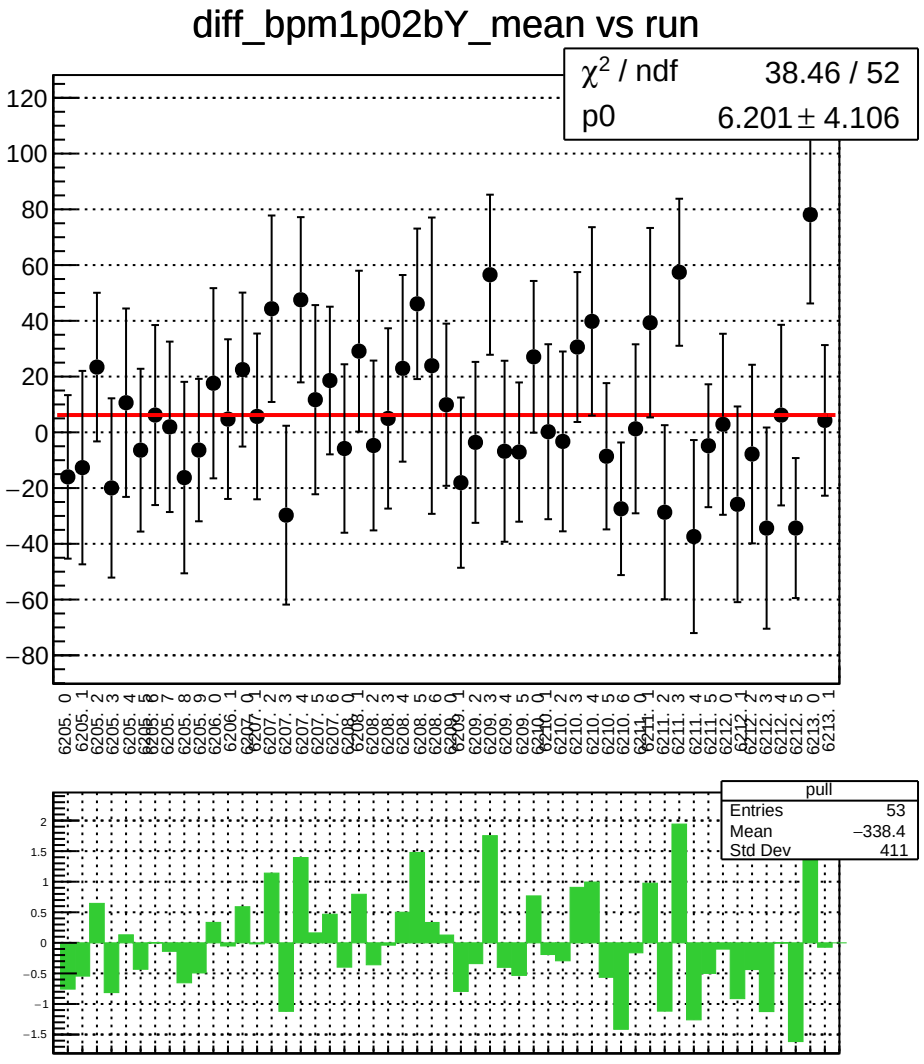

pull1D
Entries 53
Mean −0.005478
Std Dev 0.9588

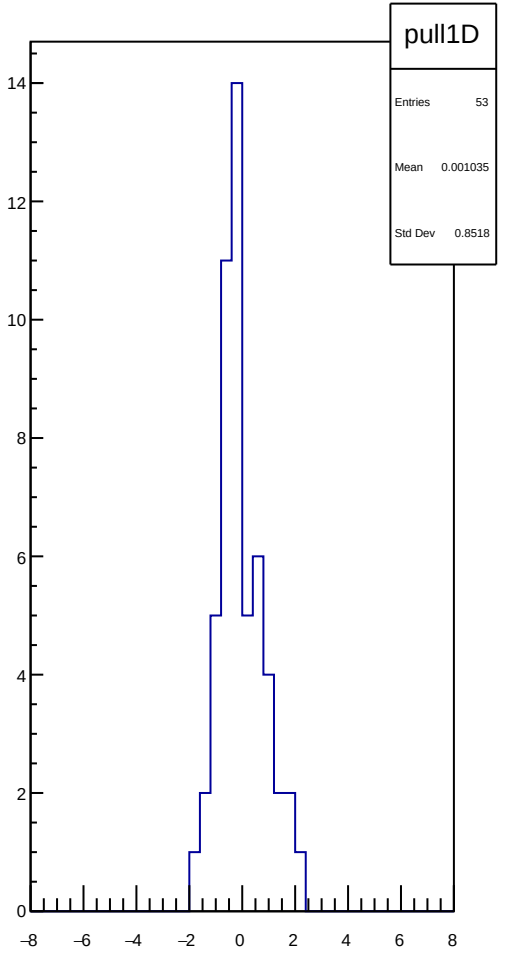

diff_bpm16Y_rms vs run
χ² / ndf 2732 / 52
p0 5392 ± 5.329
6400
6200
6000
5800
5600
5400
5200
5000
4800
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

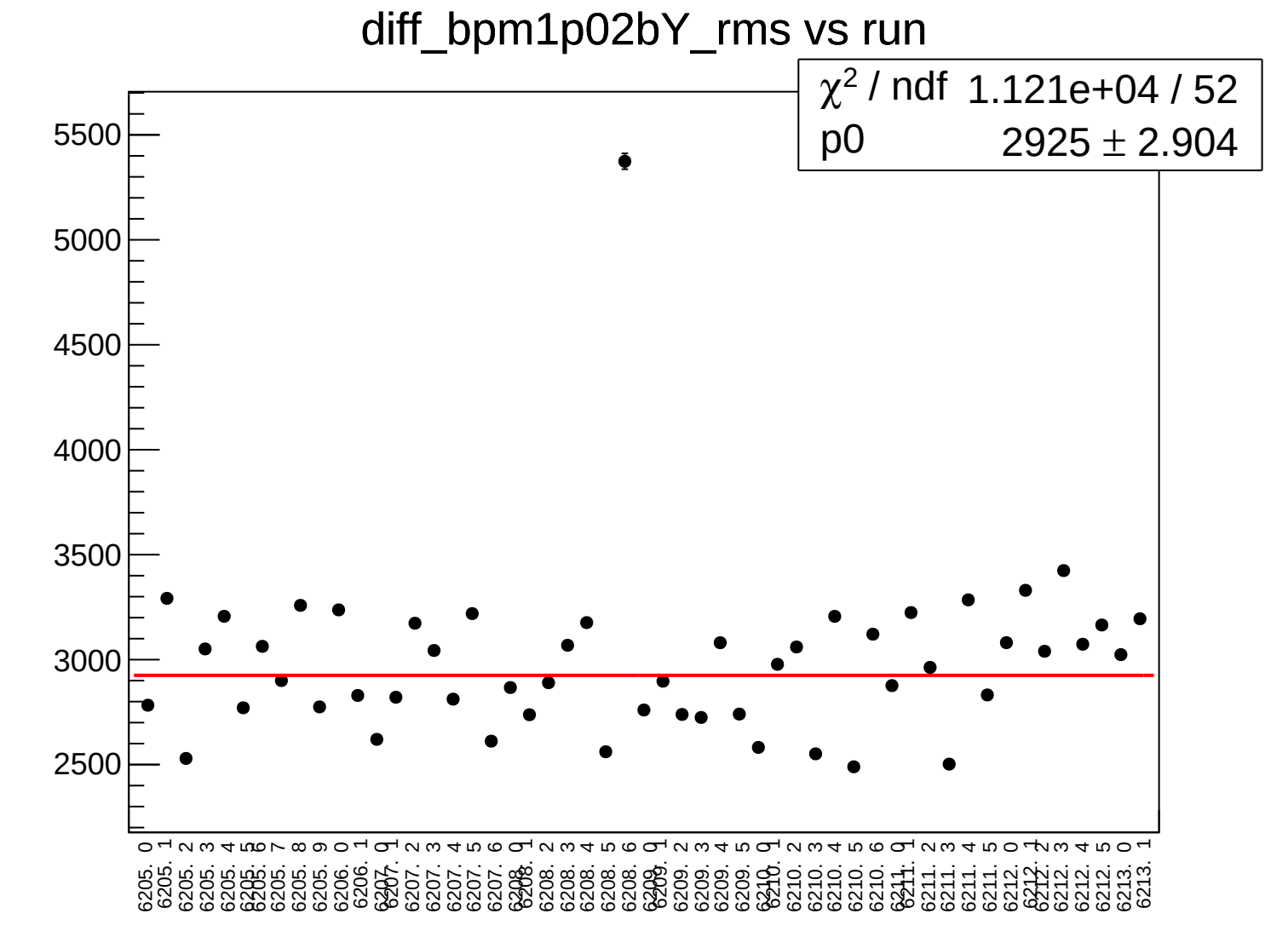

diff_bpm1p02bX_mean vs run
χ² / ndf 40.22 / 52
p0 −5.886 ± 2.302
pull
Entries 53
Mean 260.8
Std Dev 232.8

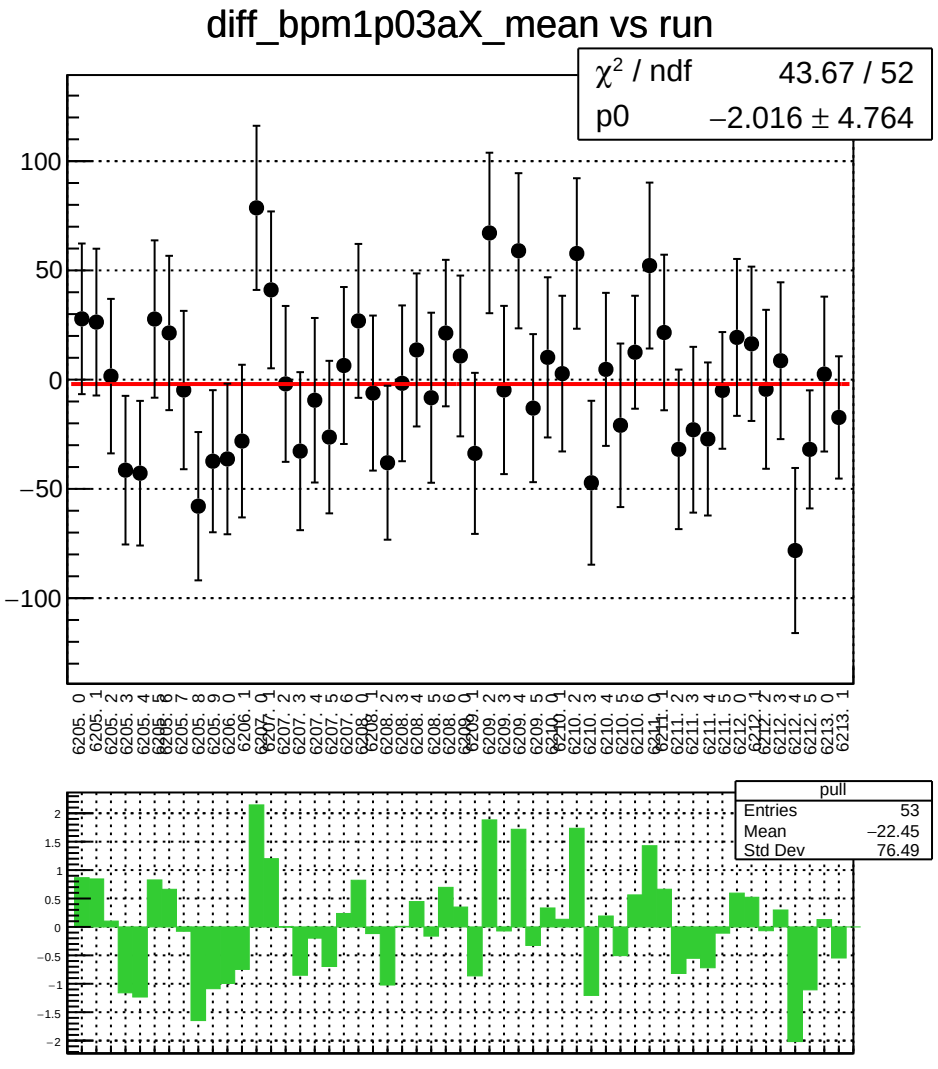

pull1D
Entries 53
Mean 0.008201
Std Dev 0.8711

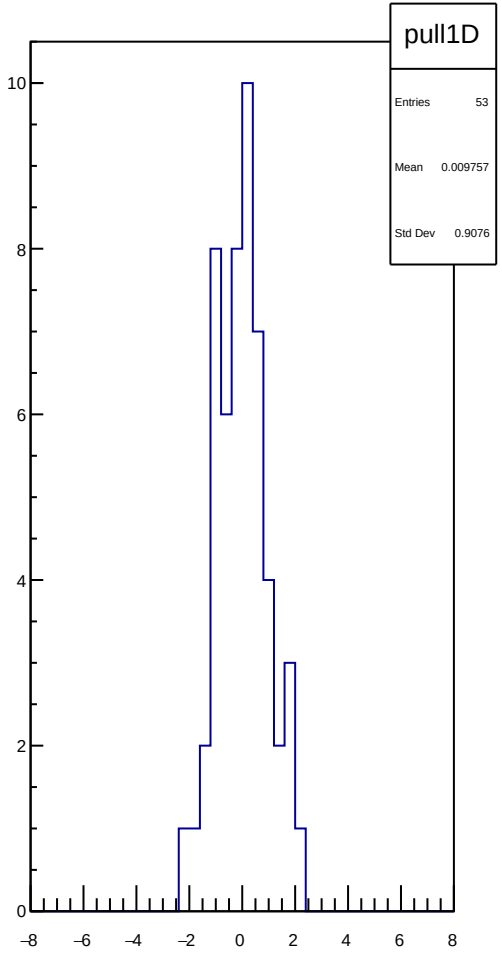

diff_bpm1p02bX_rms vs run
χ² / ndf 9423 / 52
p0 1641 ± 1.628
2800
2600
2400
2200
2000
1800
1600
1400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

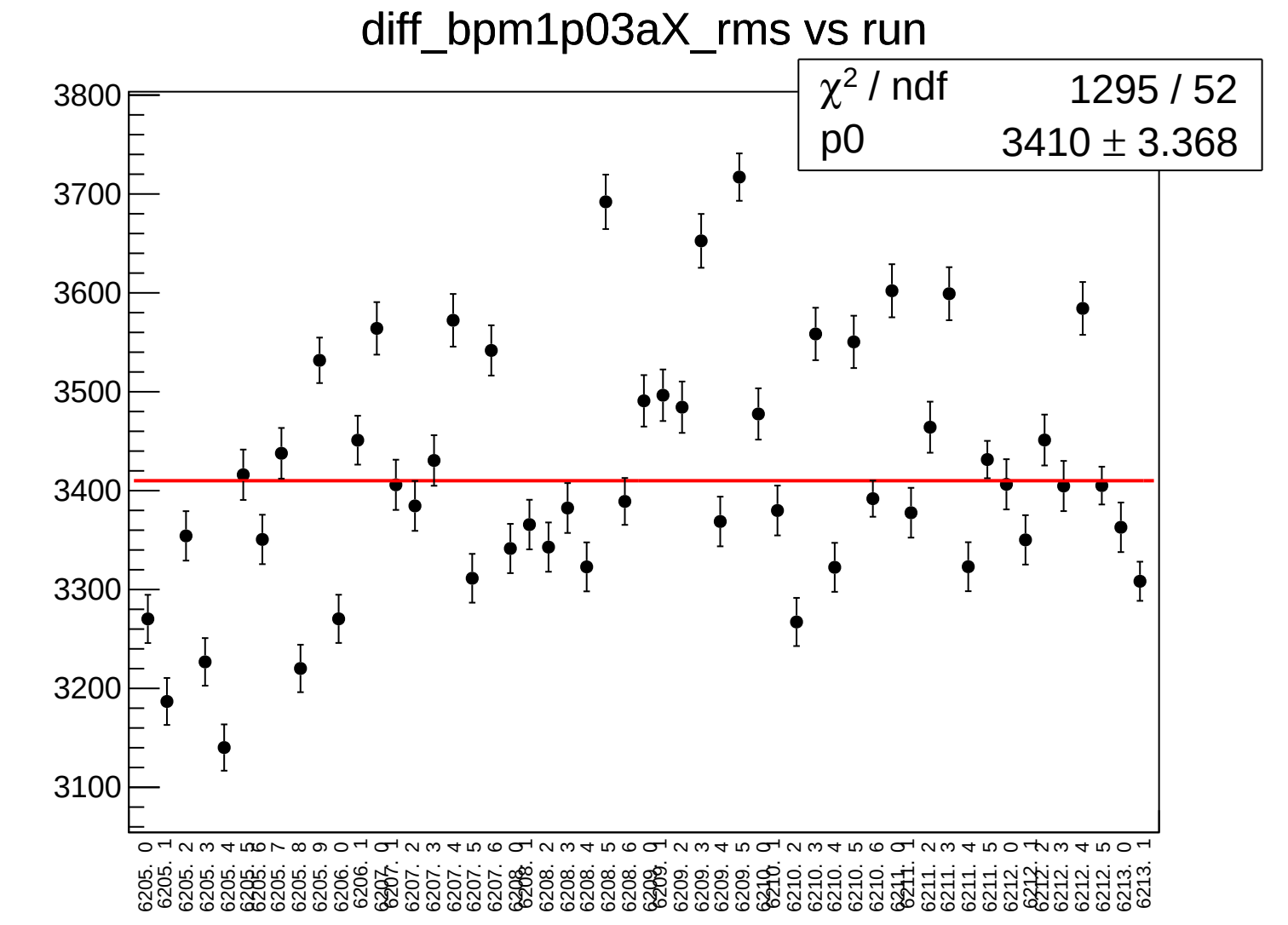

diff_bpm1p02bY_mean vs run
χ² / ndf 38.46 / 52
p0 6.201 ± 4.106
pull
Entries 53
Mean −338.4
Std Dev 411

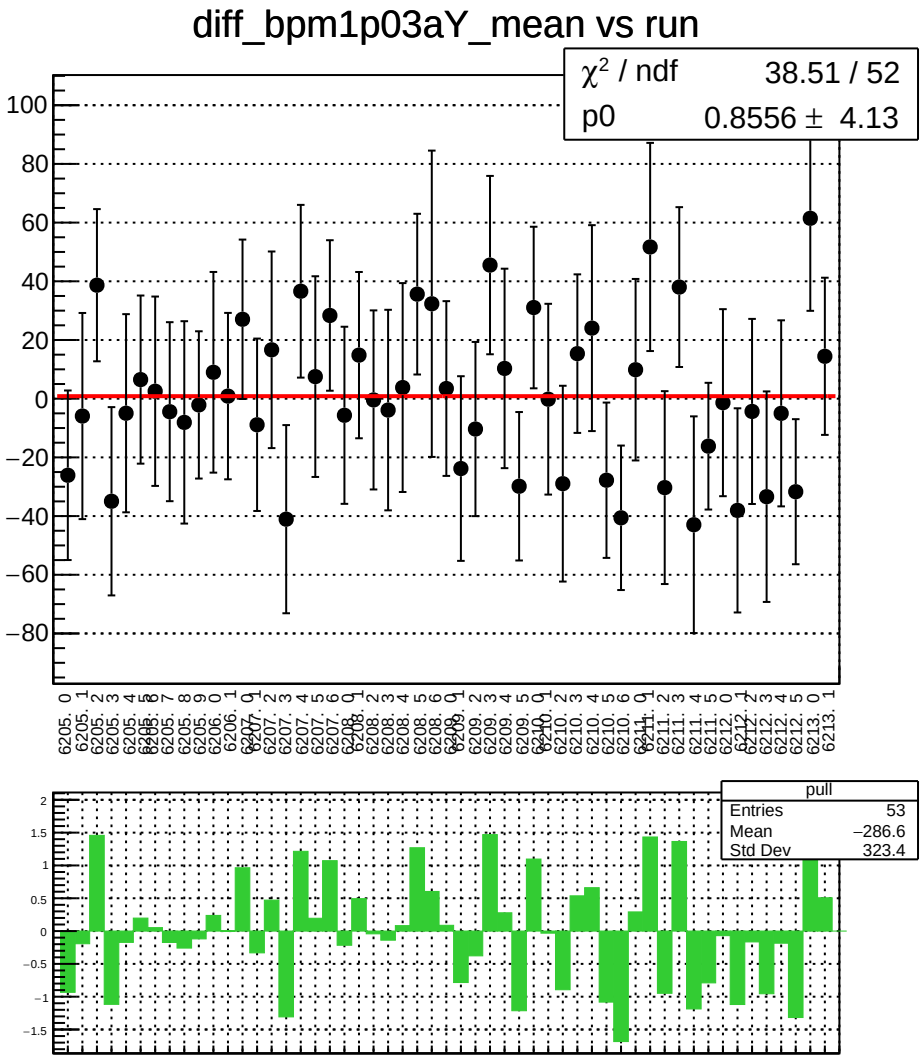

pull1D
Entries 53
Mean 0.001035
Std Dev 0.8518

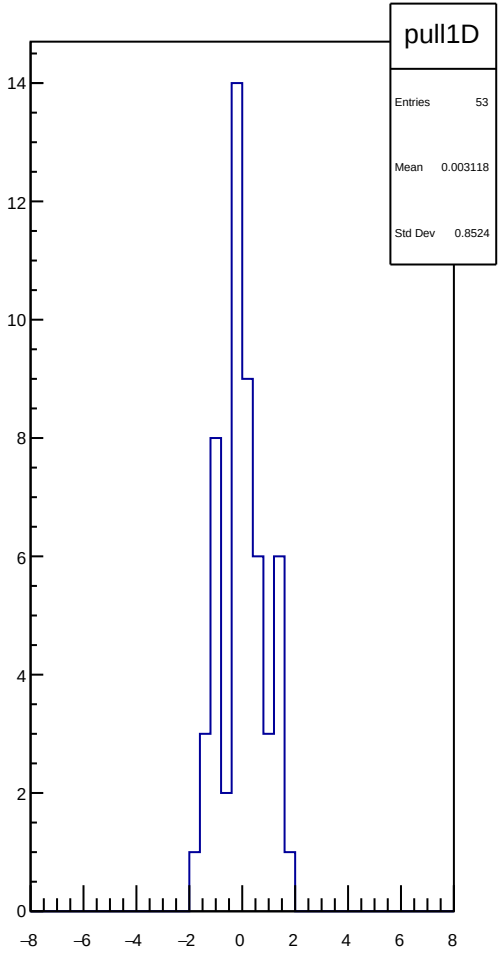

diff_bpm1p02bY_rms vs run
χ² / ndf 1.121e+04 / 52
p0 2925 ± 2.904
5500
5000
4500
4000
3500
3000
2500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

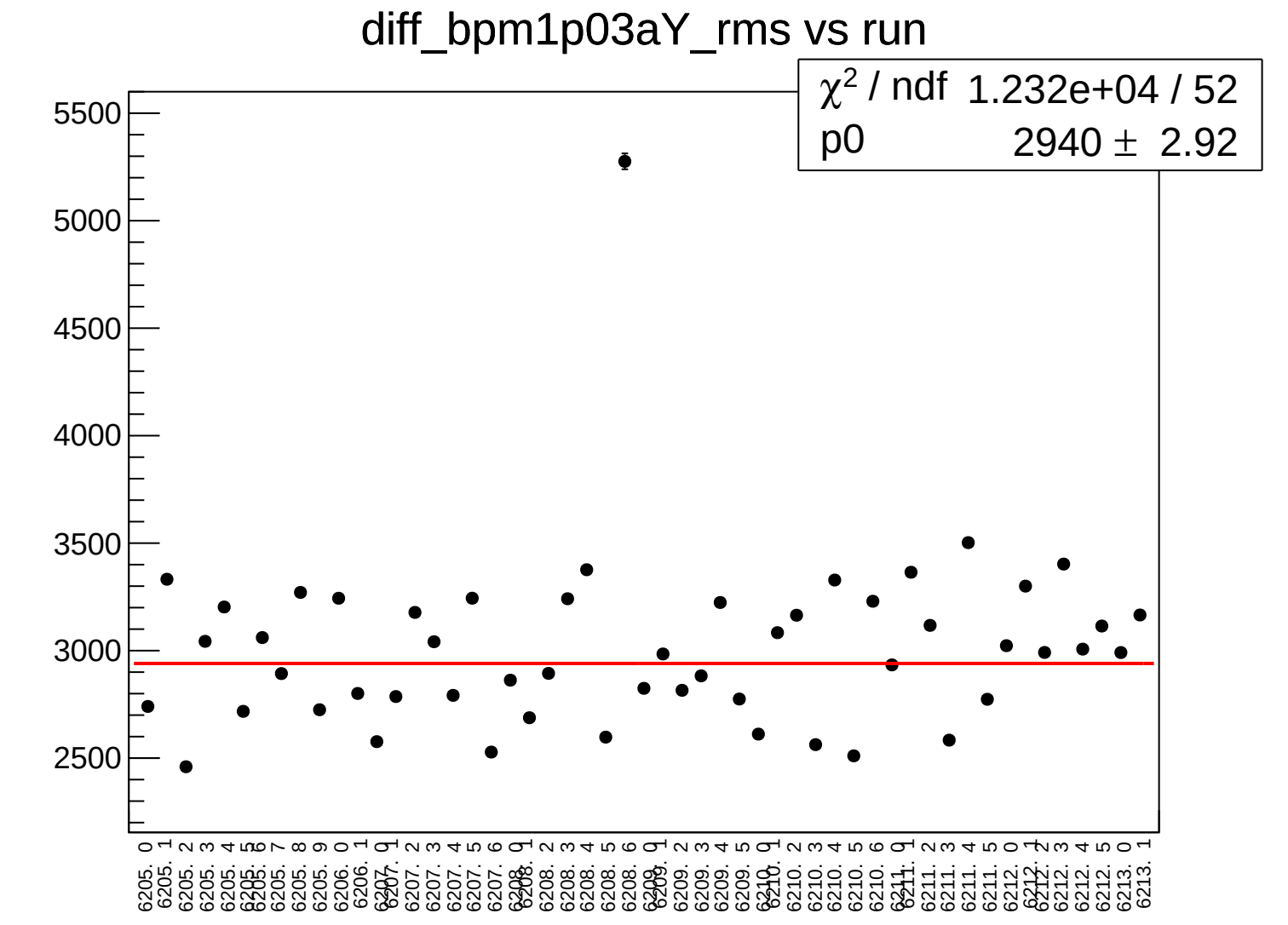

diff_bpm1p03aX_mean vs run
χ² / ndf 43.67 / 52
p0 −2.016 ± 4.764
pull
Entries 53
Mean −22.45
Std Dev 76.49

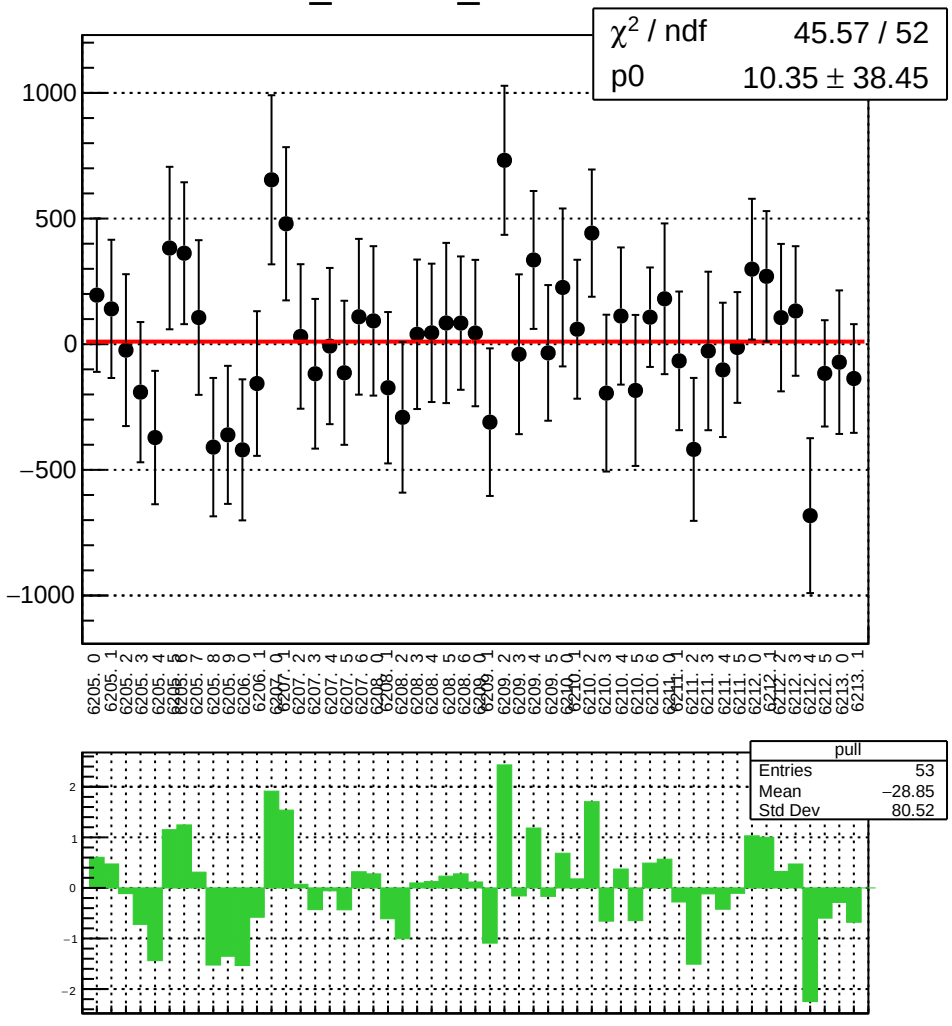

pull1D
Entries 53
Mean 0.009757
Std Dev 0.9076

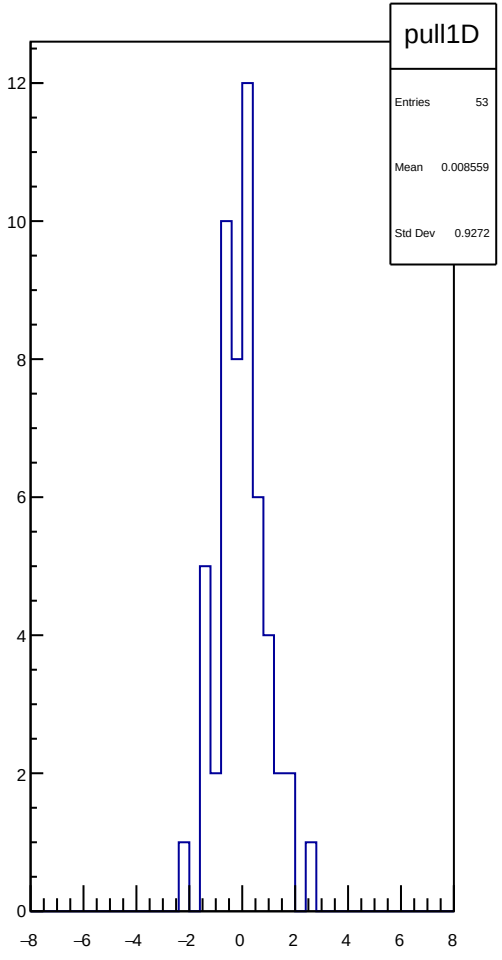

diff_bpm1p03aX_rms vs run
χ² / ndf 1295 / 52
p0 3410 ± 3.368
3800
3700
3600
3500
3400
3300
3200
3100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

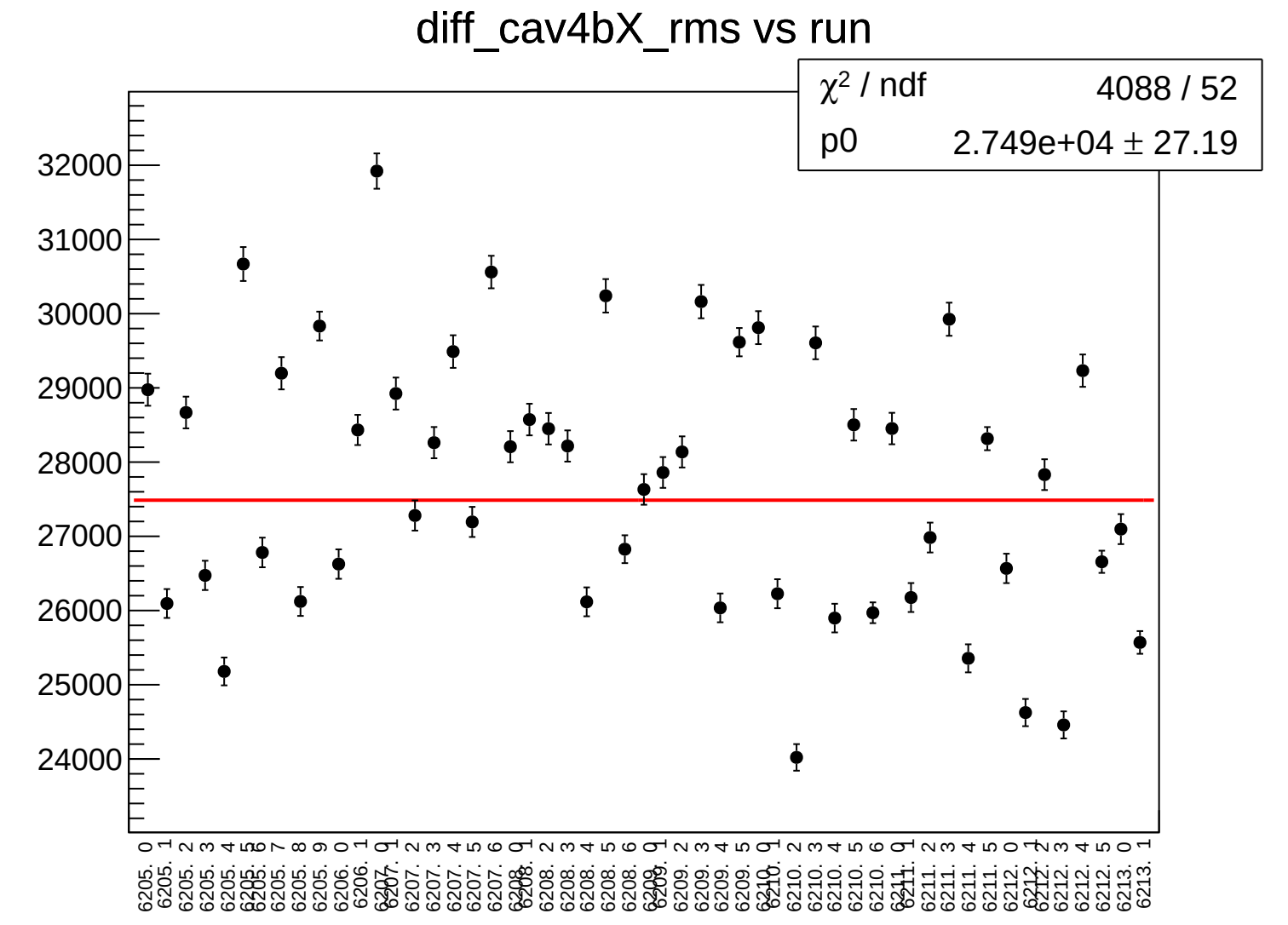

diff_bpm1p03aY_mean vs run
χ² / ndf 38.51 / 52
p0 0.8556 ± 4.13
pull
Entries 53
Mean −286.6
Std Dev 323.4

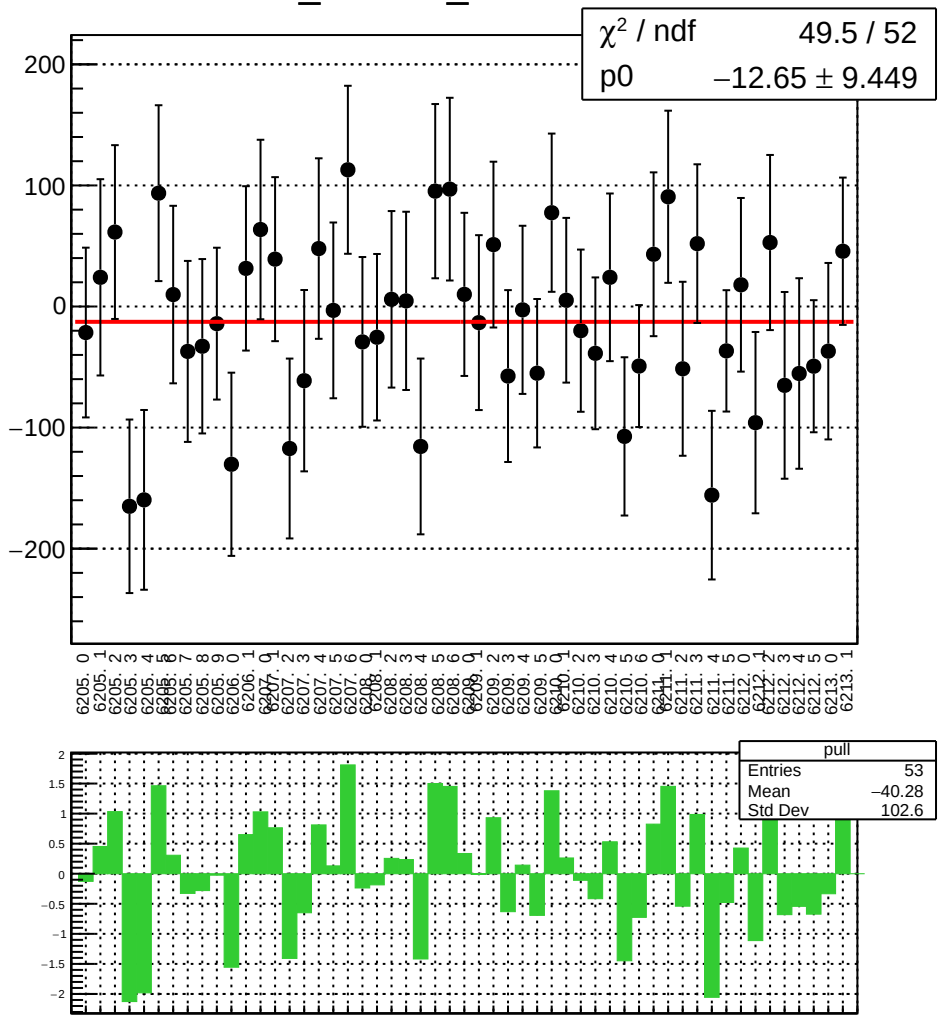

pull1D
Entries 53
Mean 0.003118
Std Dev 0.8524

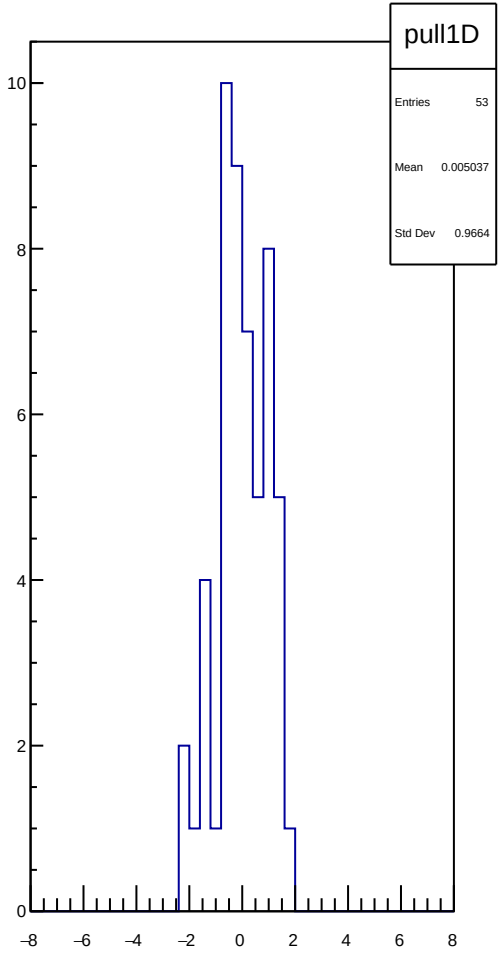

diff_bpm1p03aY_rms vs run
χ² / ndf 1.232e+04 / 52
p0 2940 ± 2.92
5500
5000
4500
4000
3500
3000
2500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

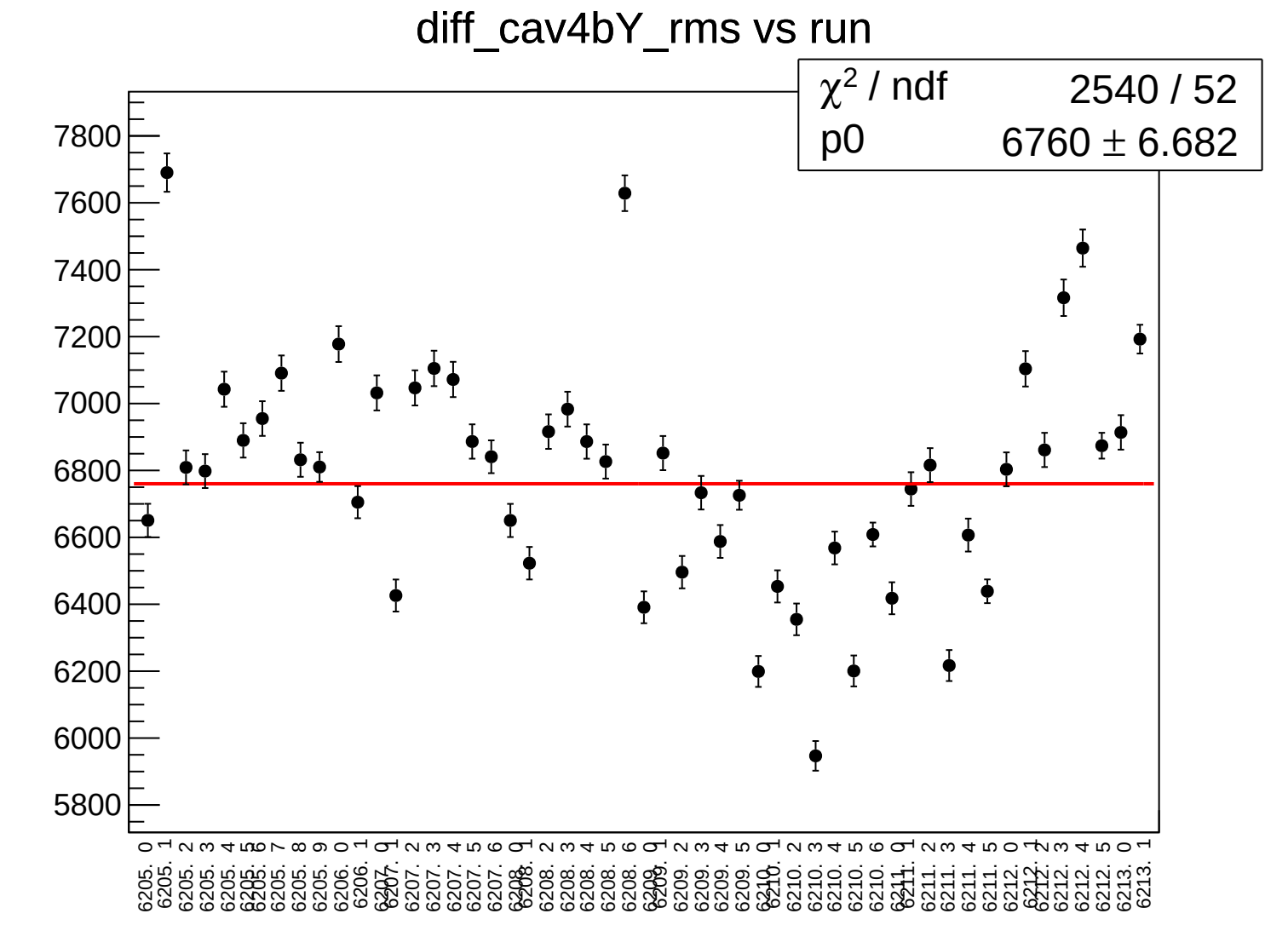

diff_cav4bX_mean vs run
χ^2 / ndf 45.57 / 52
p0 10.35 ± 38.45
1000
500
0
−500
−1000
pull
Entries 53
Mean −28.85
Std Dev 80.52
2
1
0
−1
−2

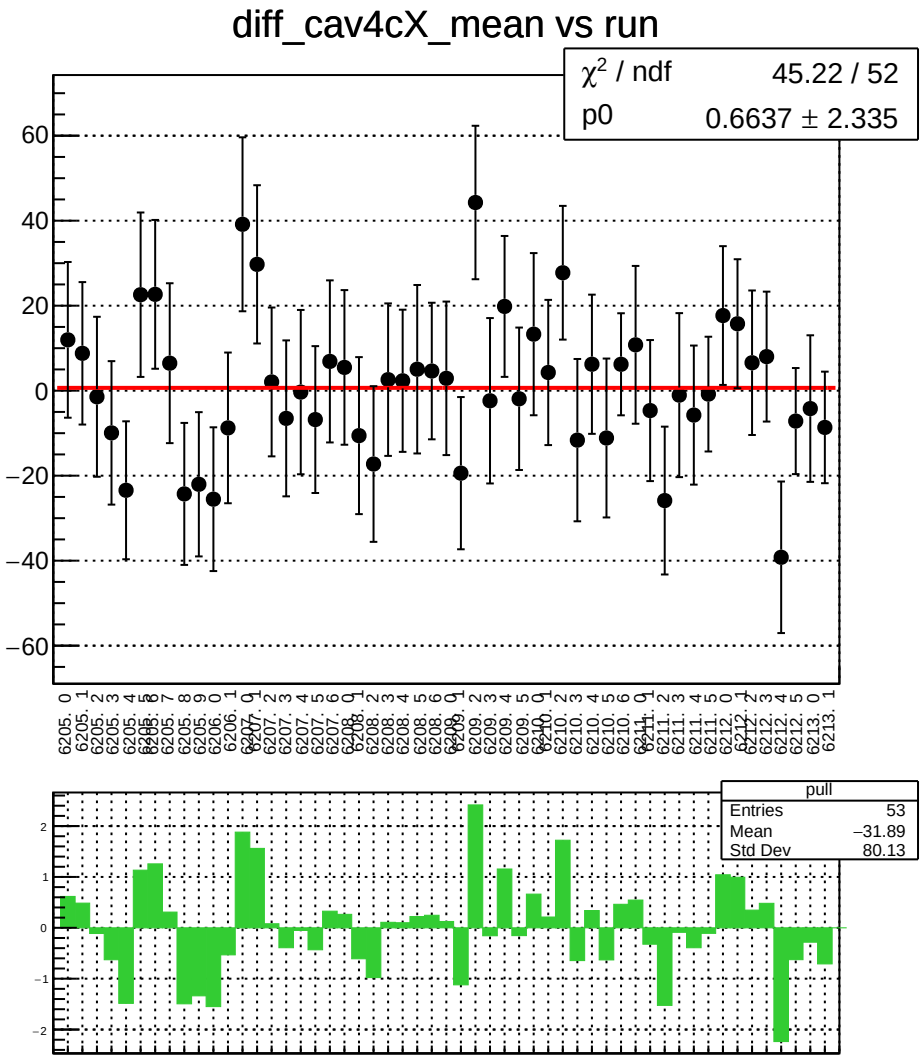

pull1D
Entries 53
Mean 0.008559
Std Dev 0.9272
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

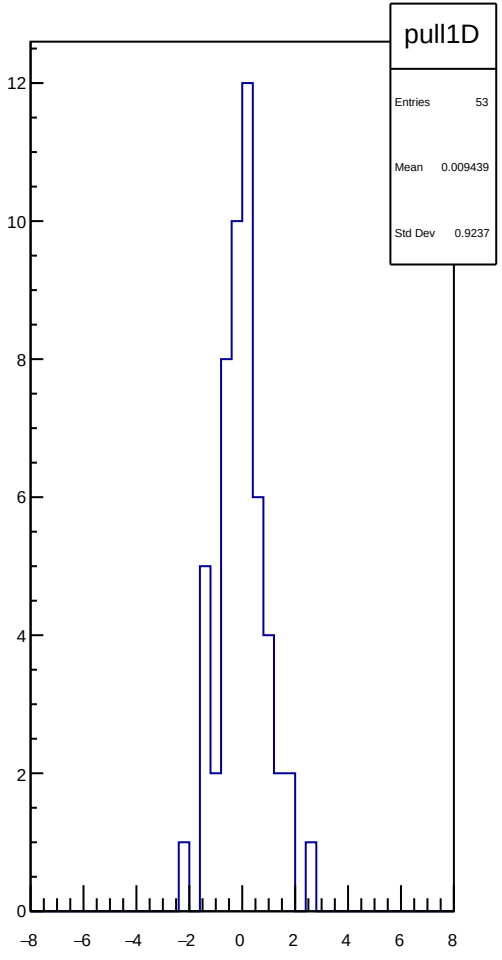

diff_cav4bX_rms vs run
χ² / ndf 4088 / 52
p0 2.749e+04 ± 27.19
32000
31000
30000
29000
28000
27000
26000
25000
24000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

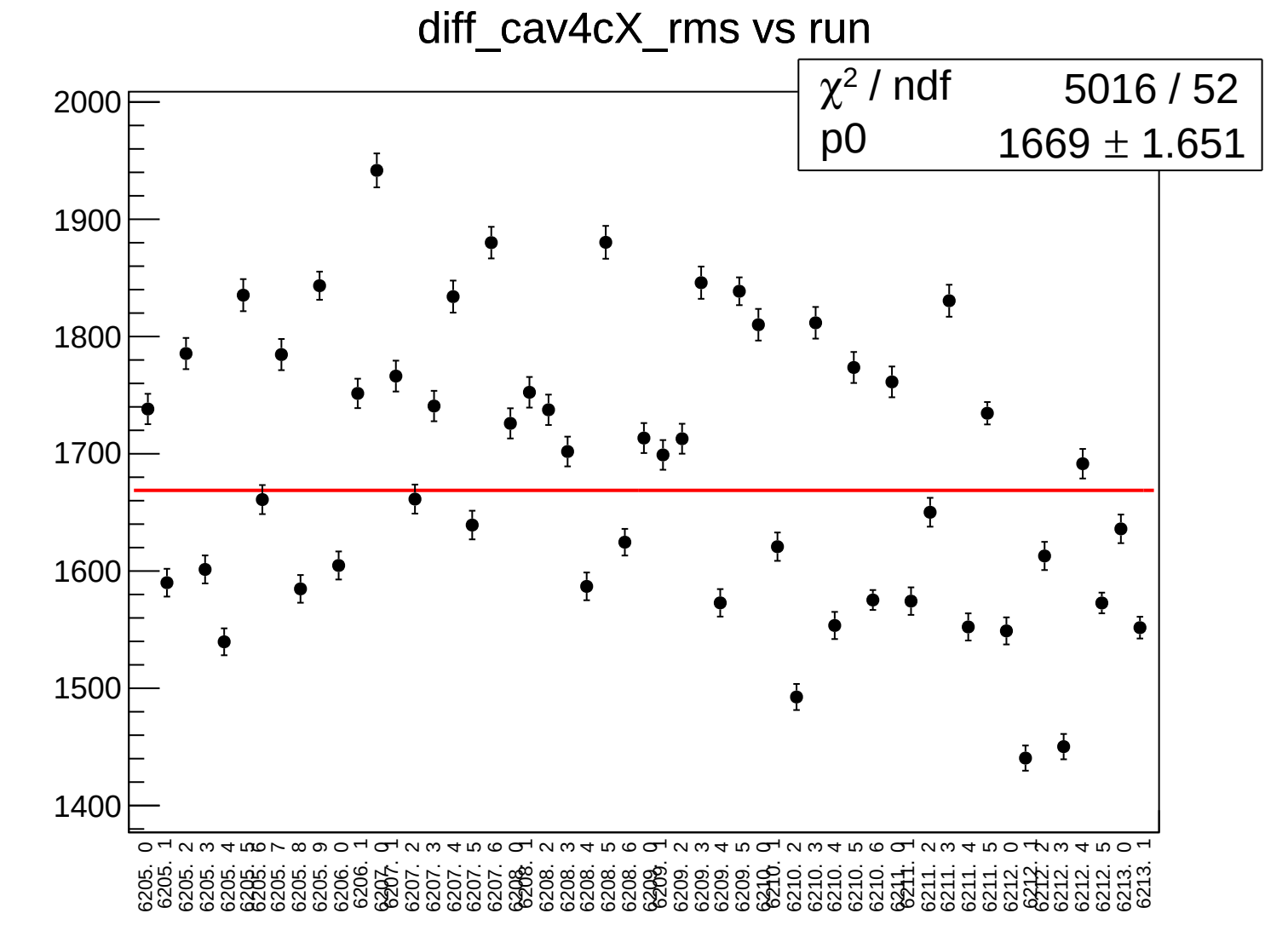

diff_cav4bY_mean vs run
χ² / ndf 49.5 / 52
p0 −12.65 ± 9.449
pull
Entries 53
Mean −40.28
Std Dev 102.6

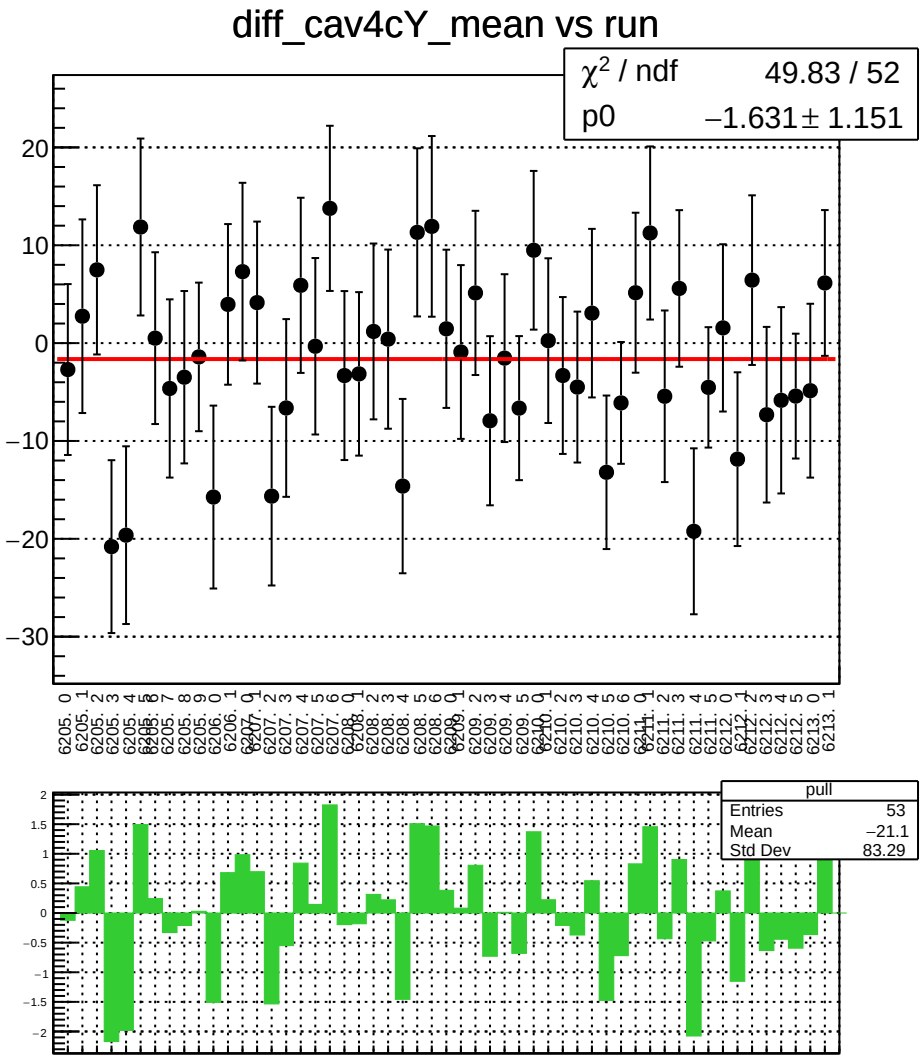

pull1D
Entries 53
Mean 0.005037
Std Dev 0.9664

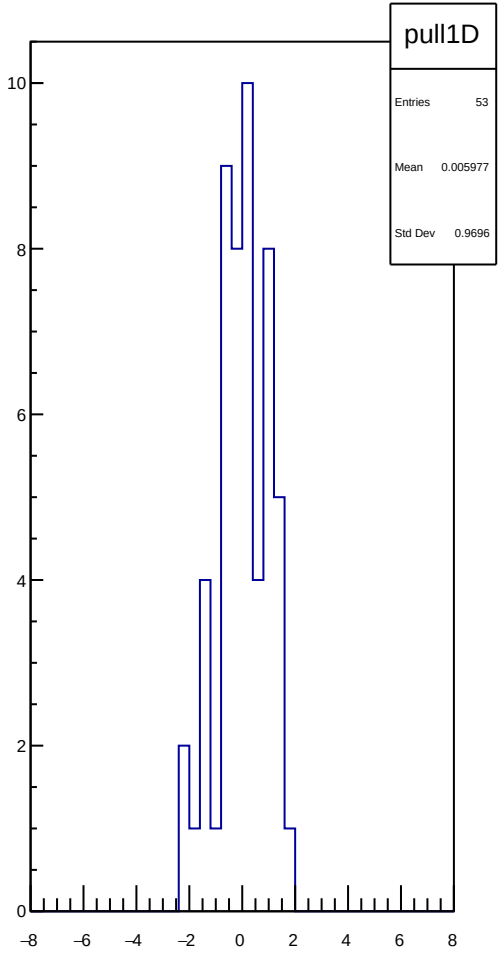

diff_cav4bY_rms vs run
χ² / ndf 2540 / 52
p0 6760 ± 6.682
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

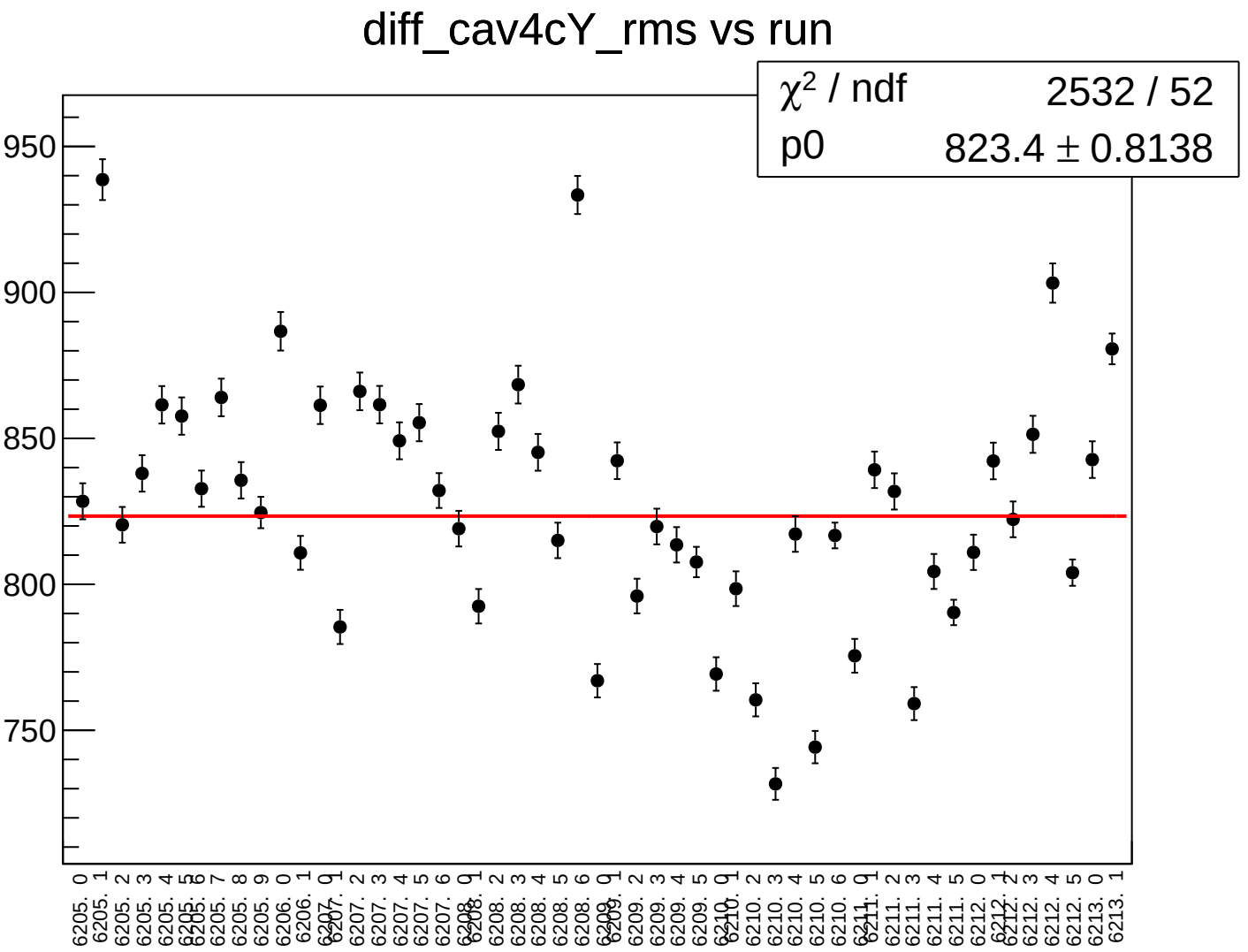

diff_cav4cX_mean vs run
χ² / ndf 45.22 / 52
p0 0.6637 ± 2.335
pull
Entries 53
Mean −31.89
Std Dev 80.13

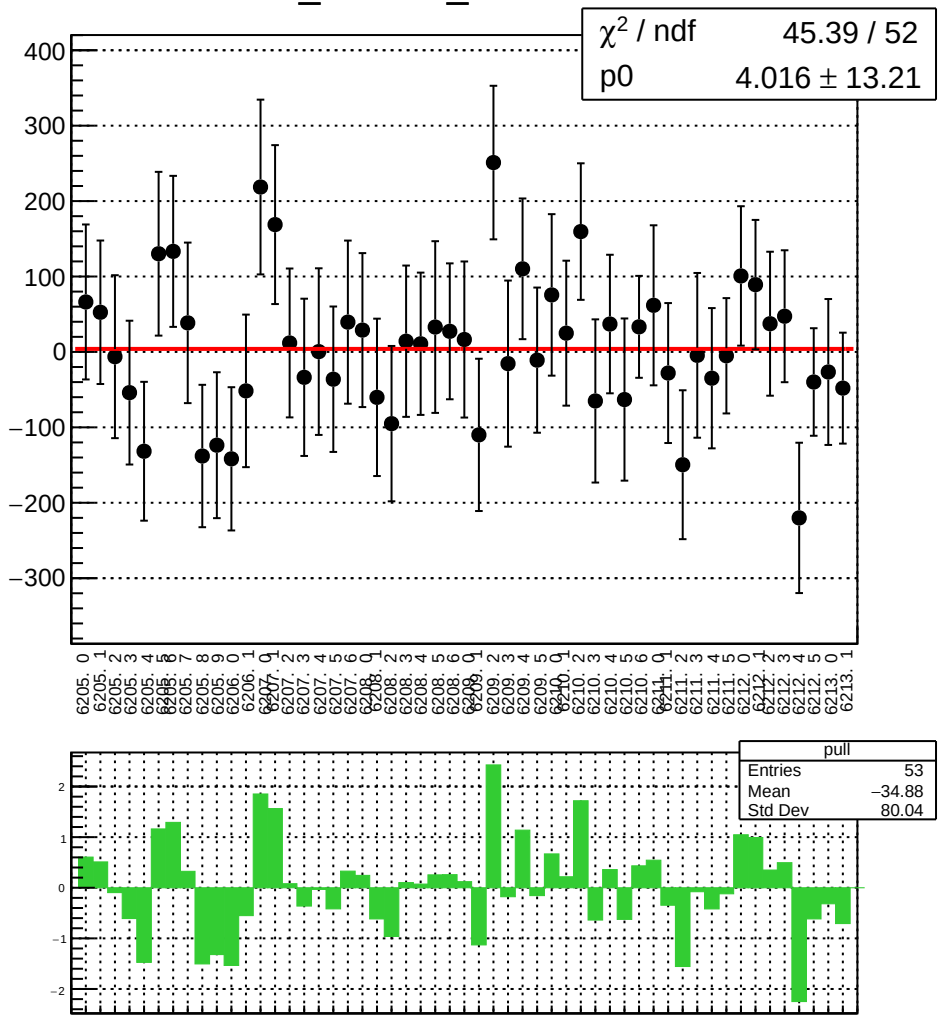

pull1D
Entries 53
Mean 0.009439
Std Dev 0.9237

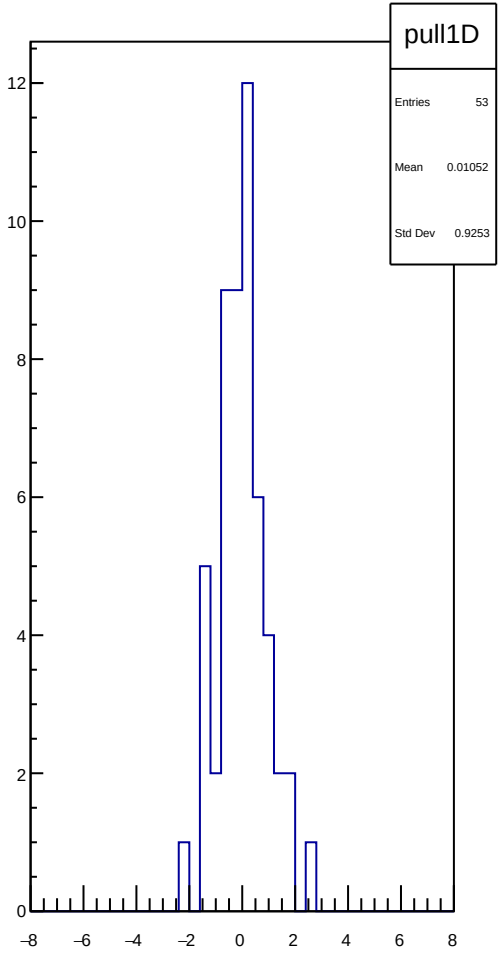

diff_cav4cX_rms vs run
χ² / ndf 5016 / 52
p0 1669 ± 1.651
2000
1900
1800
1700
1600
1500
1400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

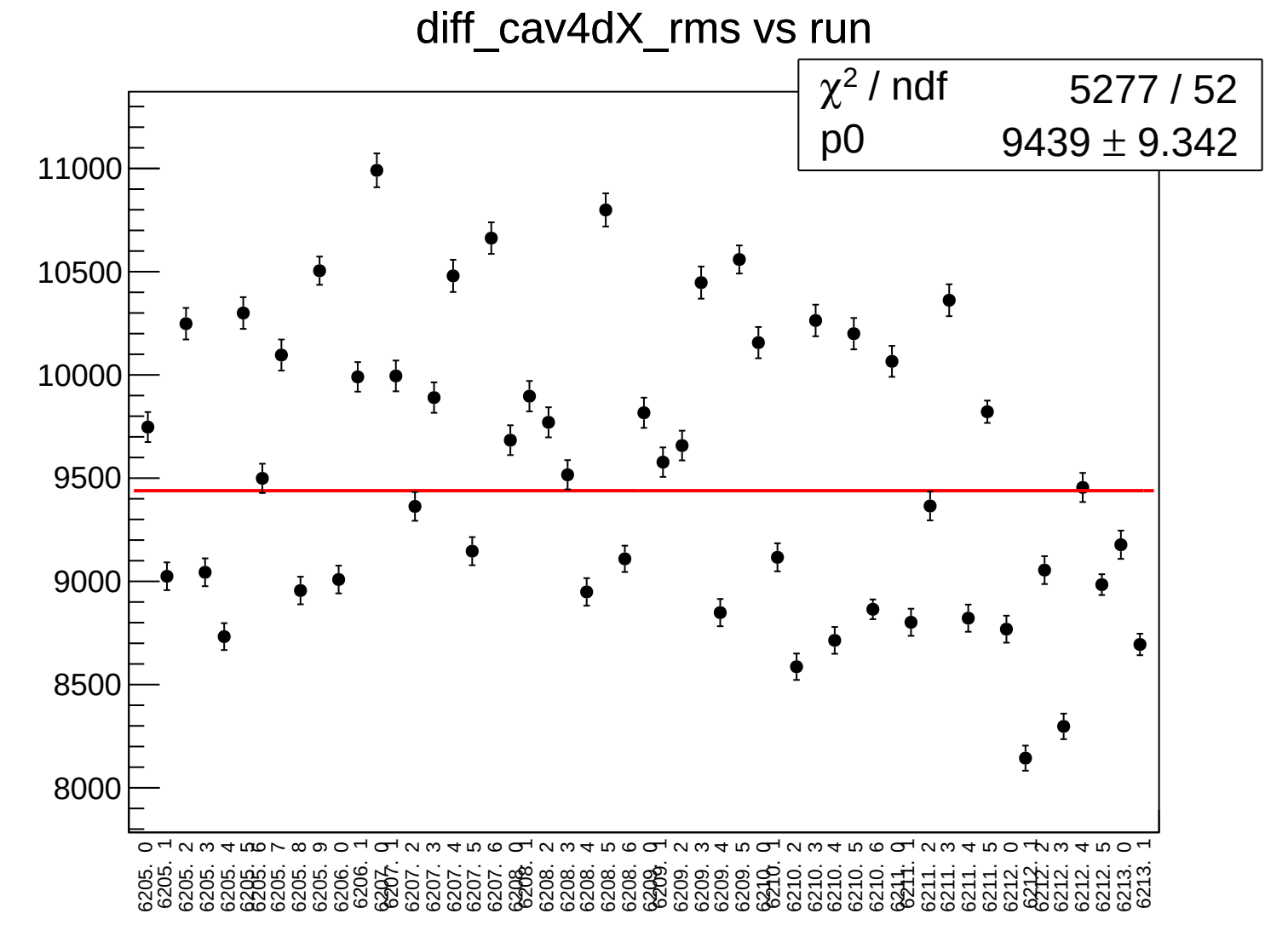

diff_cav4cY_mean vs run
χ² / ndf 49.83 / 52
p0 −1.631 ± 1.151
pull
Entries 53
Mean −21.1
Std Dev 83.29


pull1D
Entries 53
Mean 0.005977
Std Dev 0.9696


diff_cav4cY_rms vs run
χ² / ndf 2532 / 52
p0 823.4 ± 0.8138
950
900
850
800
750
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_cav4dX_mean vs run
χ² / ndf 45.39 / 52
p0 4.016 ± 13.21
pull
Entries 53
Mean −34.88
Std Dev 80.04


pull1D
Entries 53
Mean 0.01052
Std Dev 0.9253


diff_cav4dX_rms vs run
χ² / ndf 5277 / 52
p0 9439 ± 9.342
11000
10500
10000
9500
9000
8500
8000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
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6211. 4
6211. 5
6212. 0
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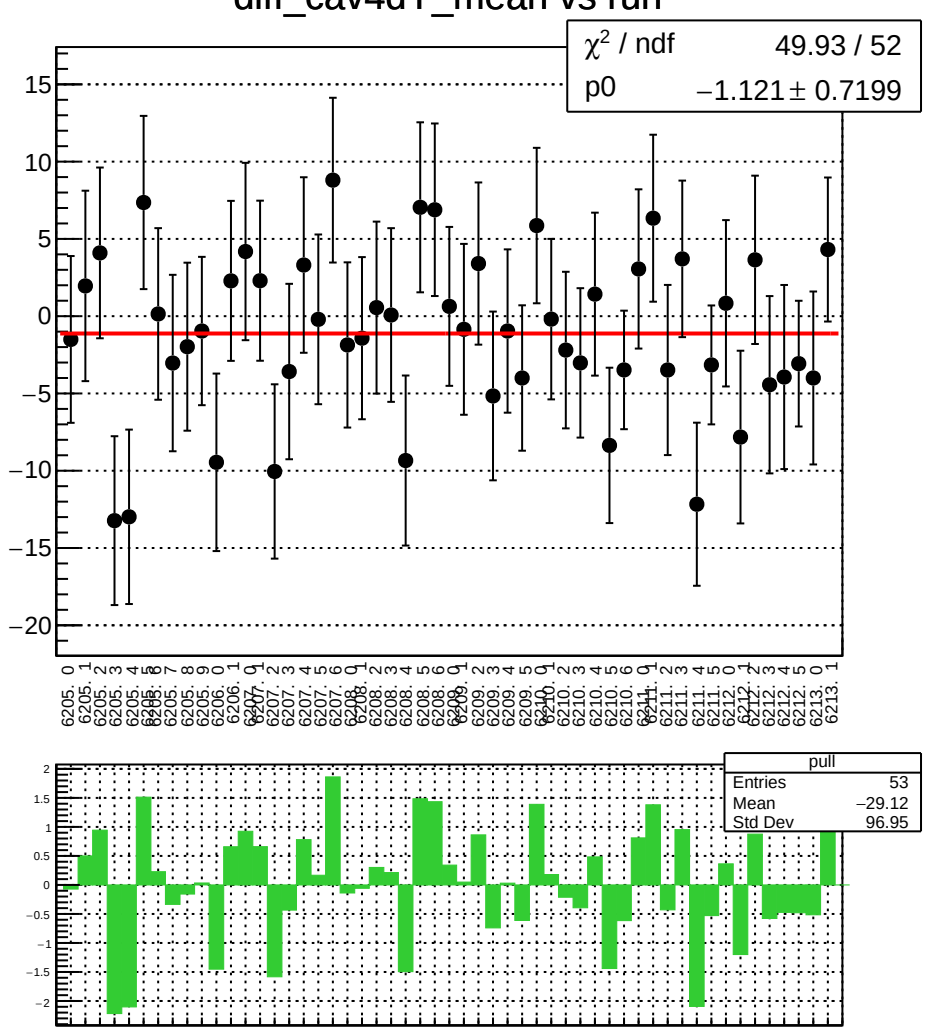
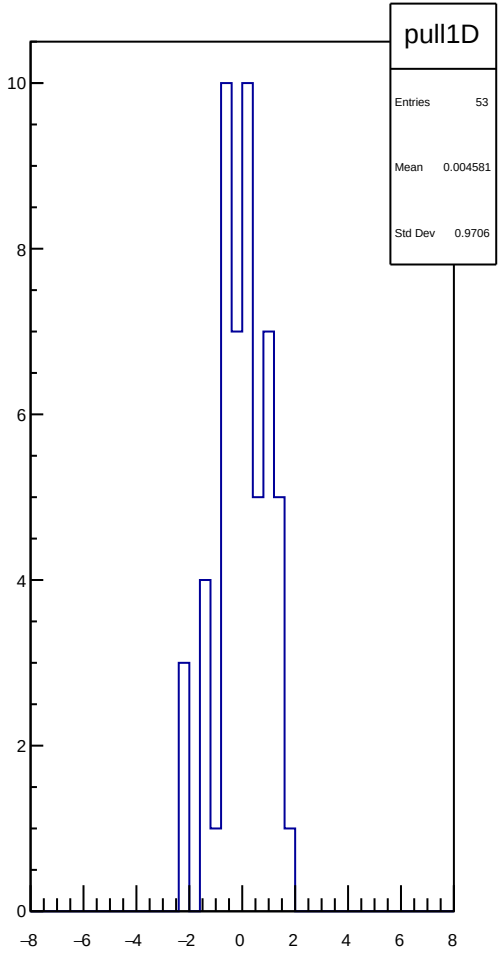
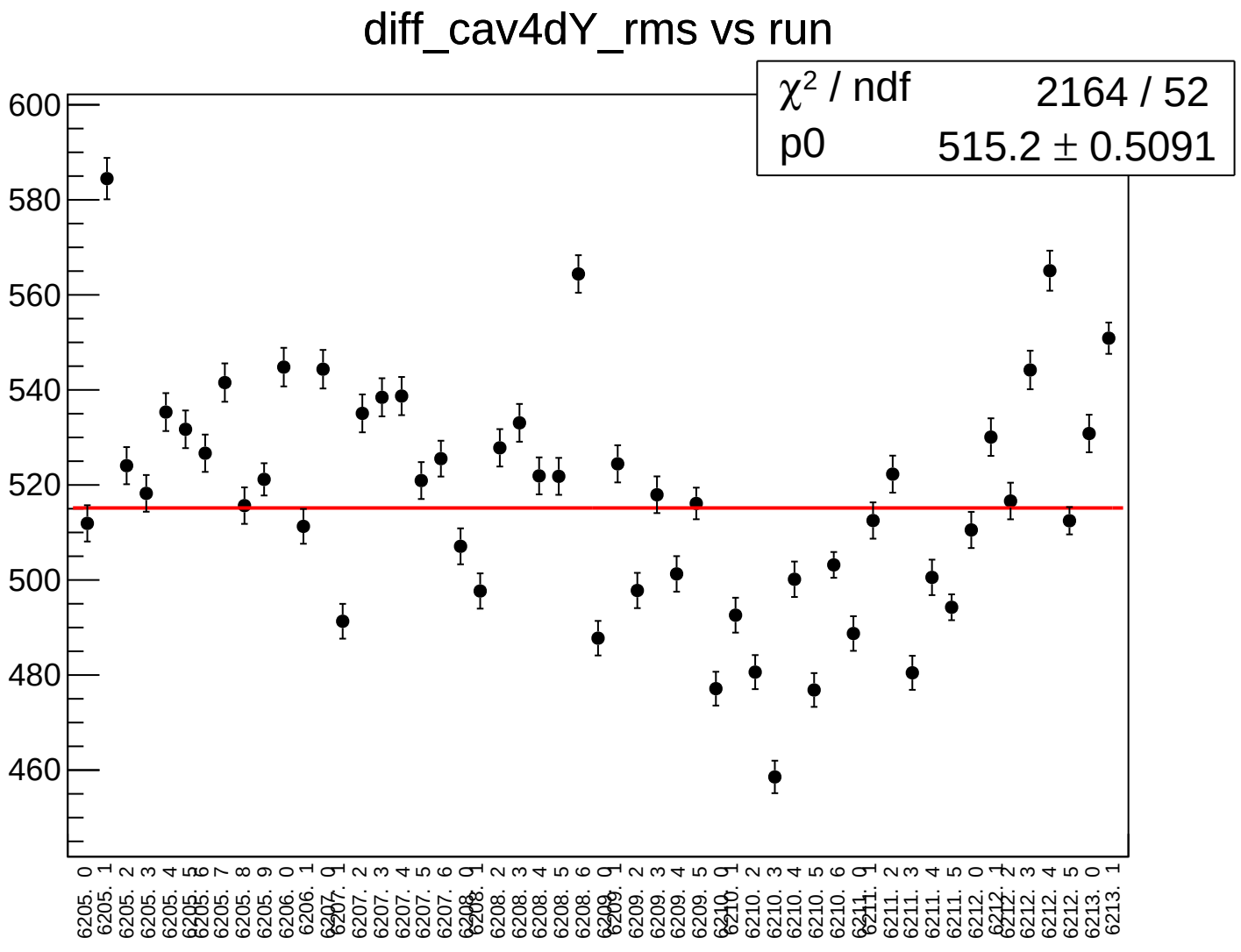
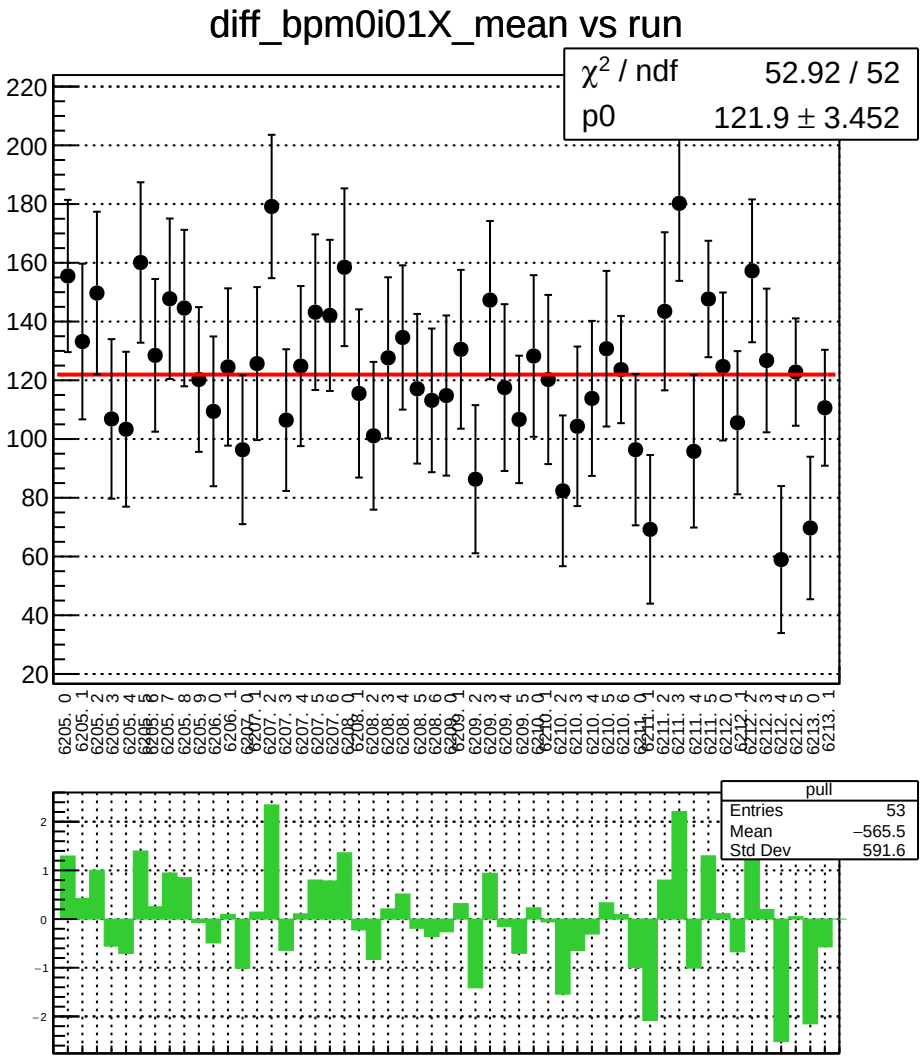
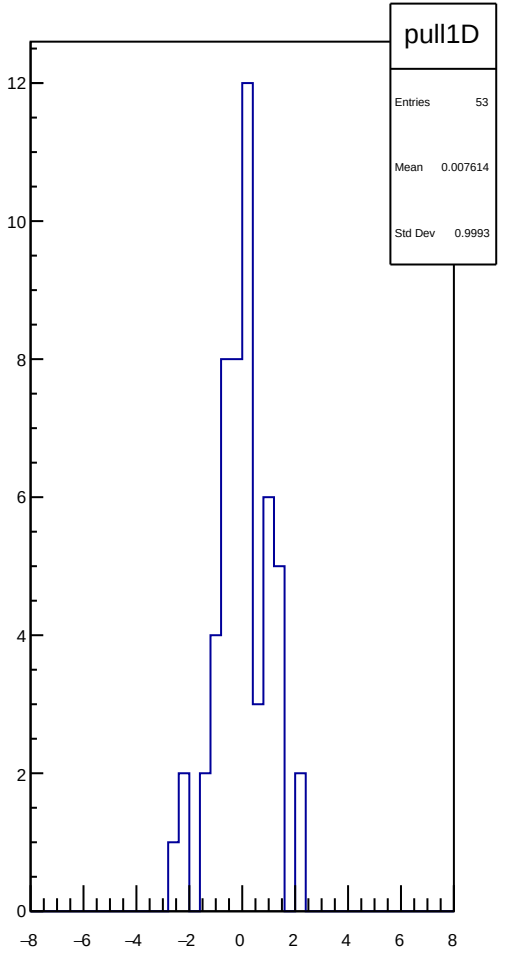
6212. 4
6212. 5
6213. 0
6213. 1

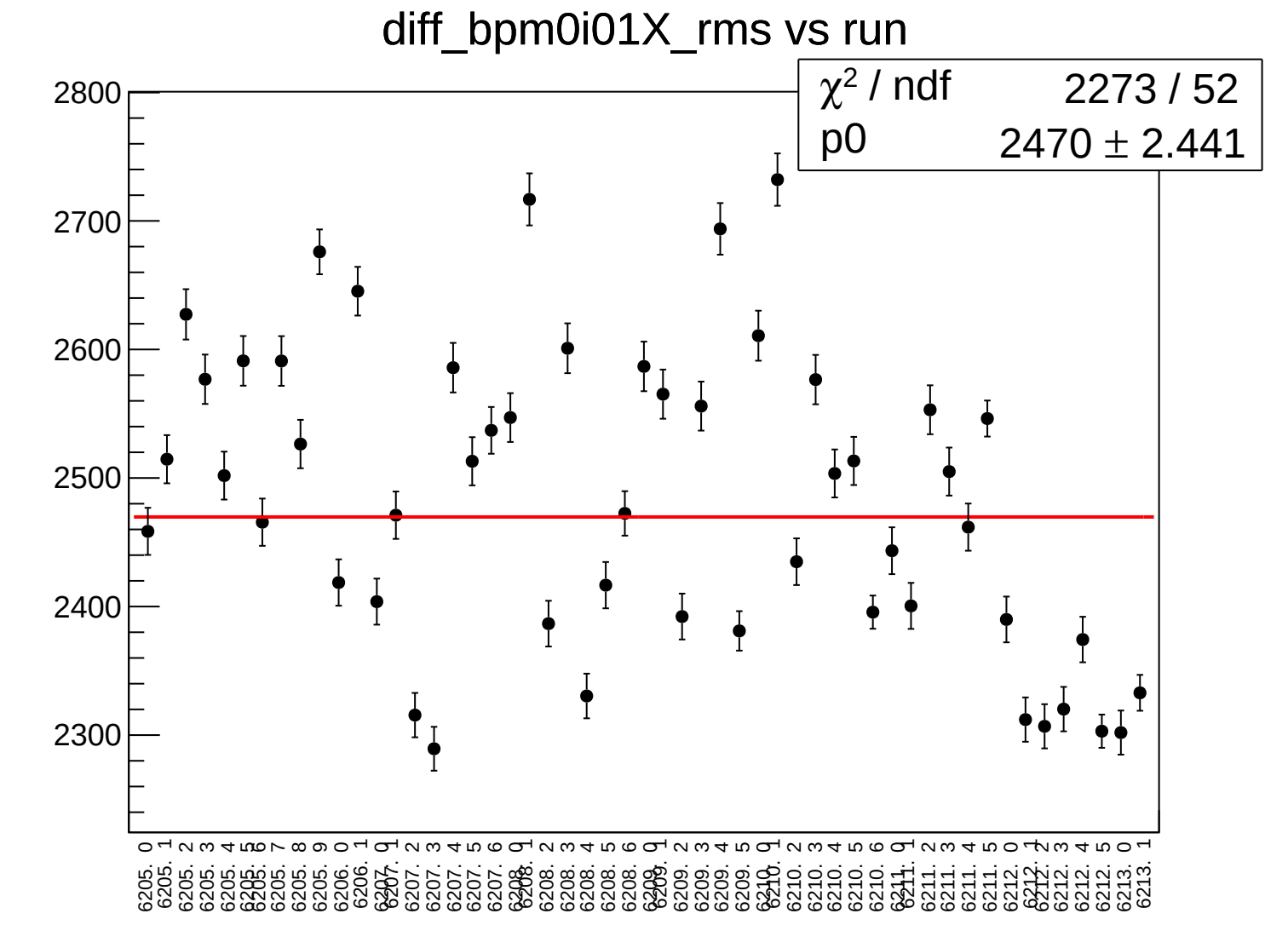

diff_cav4dY_mean vs run
χ² / ndf 49.93 / 52
p0 −1.121 ± 0.7199
pull
Entries 53
Mean −29.12
Std Dev 96.95

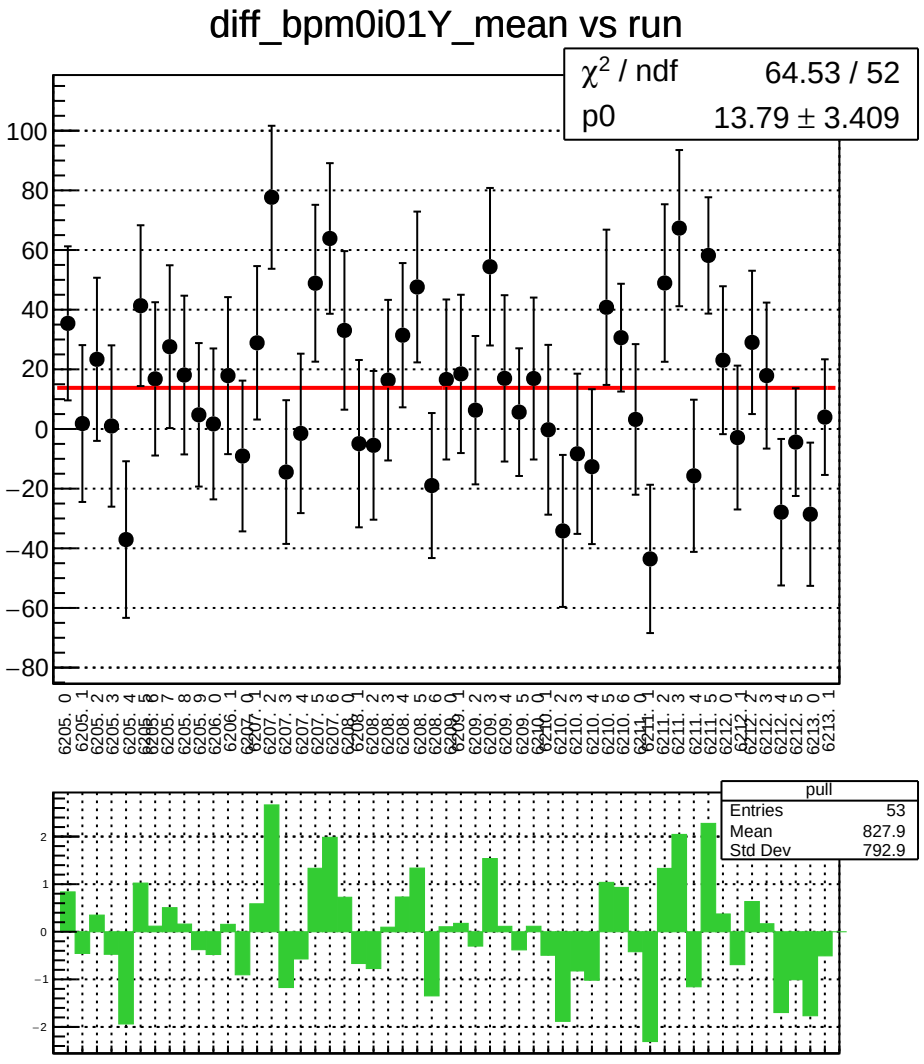

pull1D
Entries 53
Mean 0.004581
Std Dev 0.9706

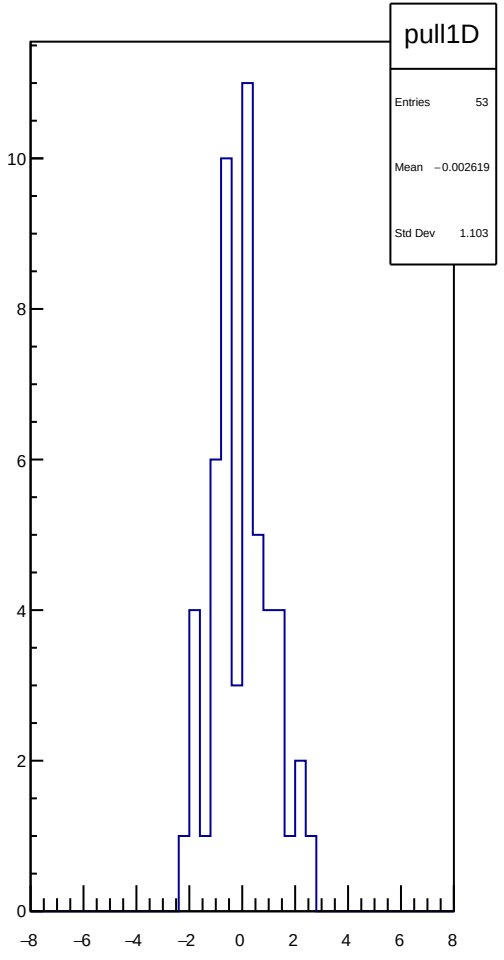

diff_cav4dY_rms vs run
χ² / ndf 2164 / 52
p0 515.2 ± 0.5091
600
580
560
540
520
500
480
460
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

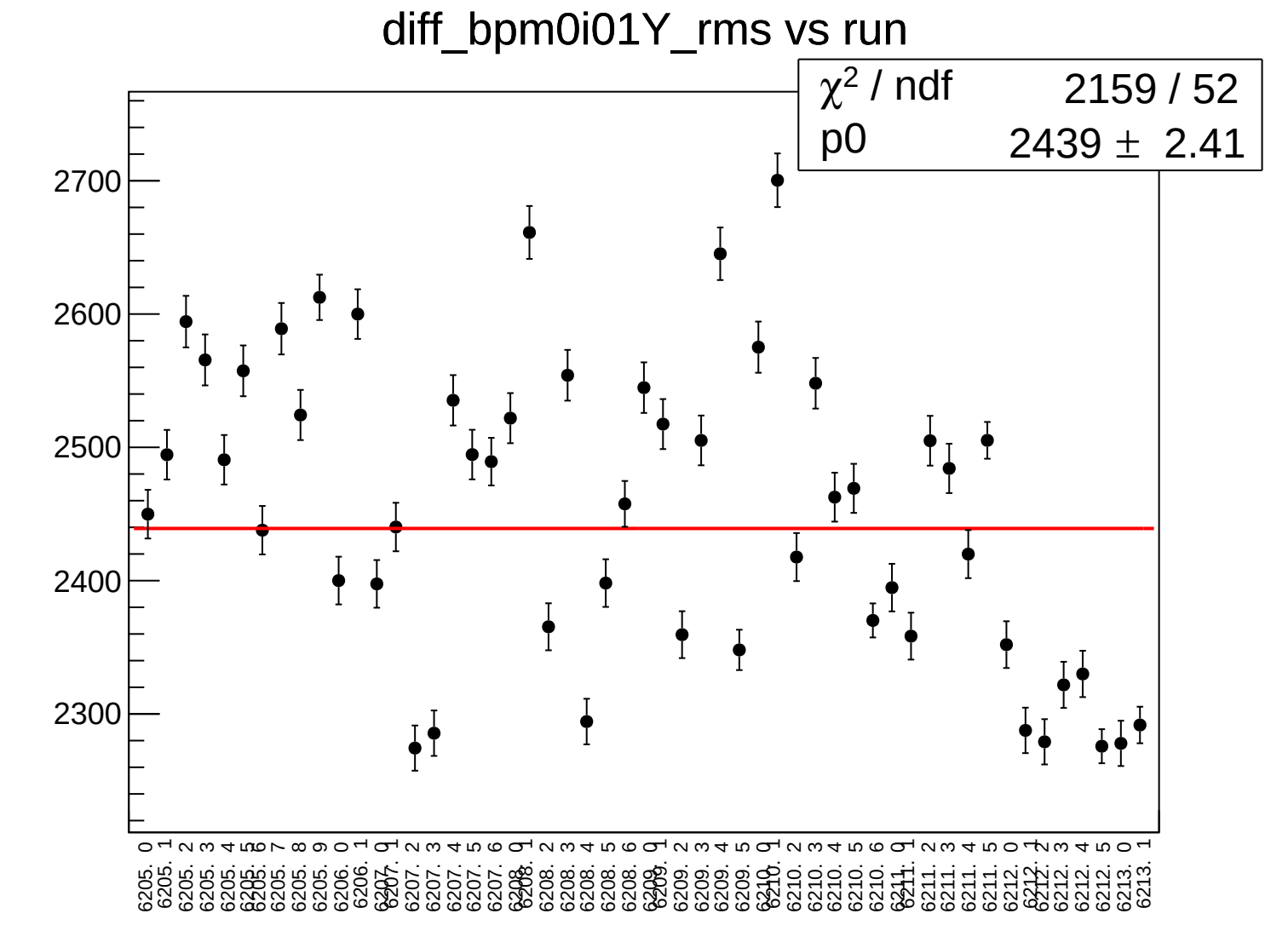

diff_bpm0i01X_mean vs run
χ^2 / ndf 52.92 / 52
p0 121.9 ± 3.452
pull
Entries 53
Mean −565.5
Std Dev 591.6

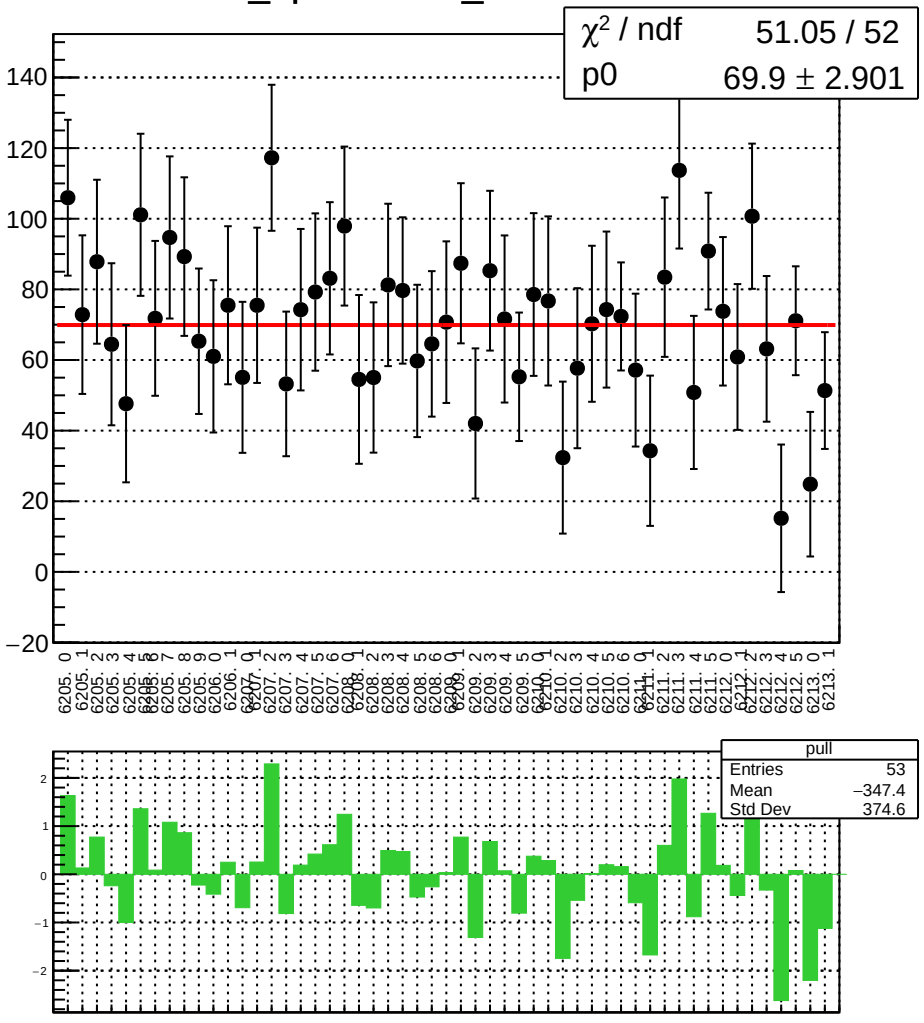

pull1D
Entries 53
Mean 0.007614
Std Dev 0.9993

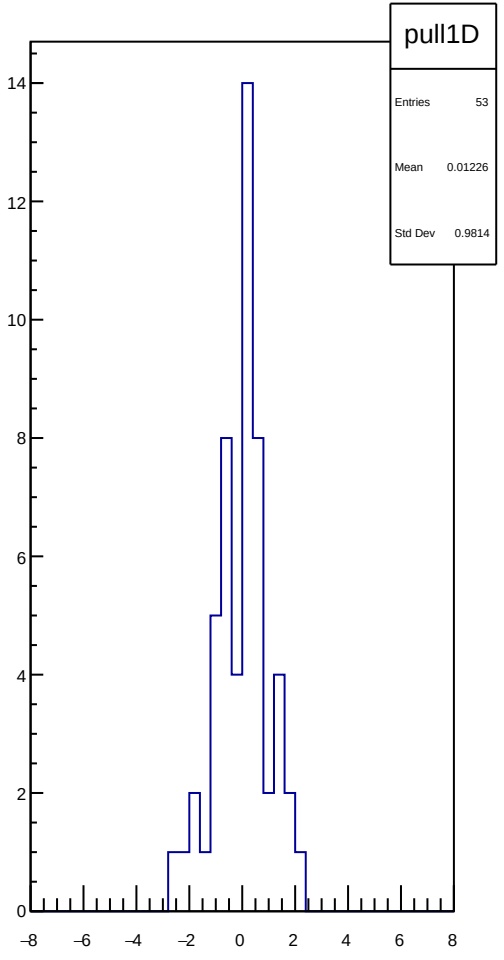

diff_bpm0i01X_rms vs run
χ² / ndf 2273 / 52
p0 2470 ± 2.441
2800
2700
2600
2500
2400
2300
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

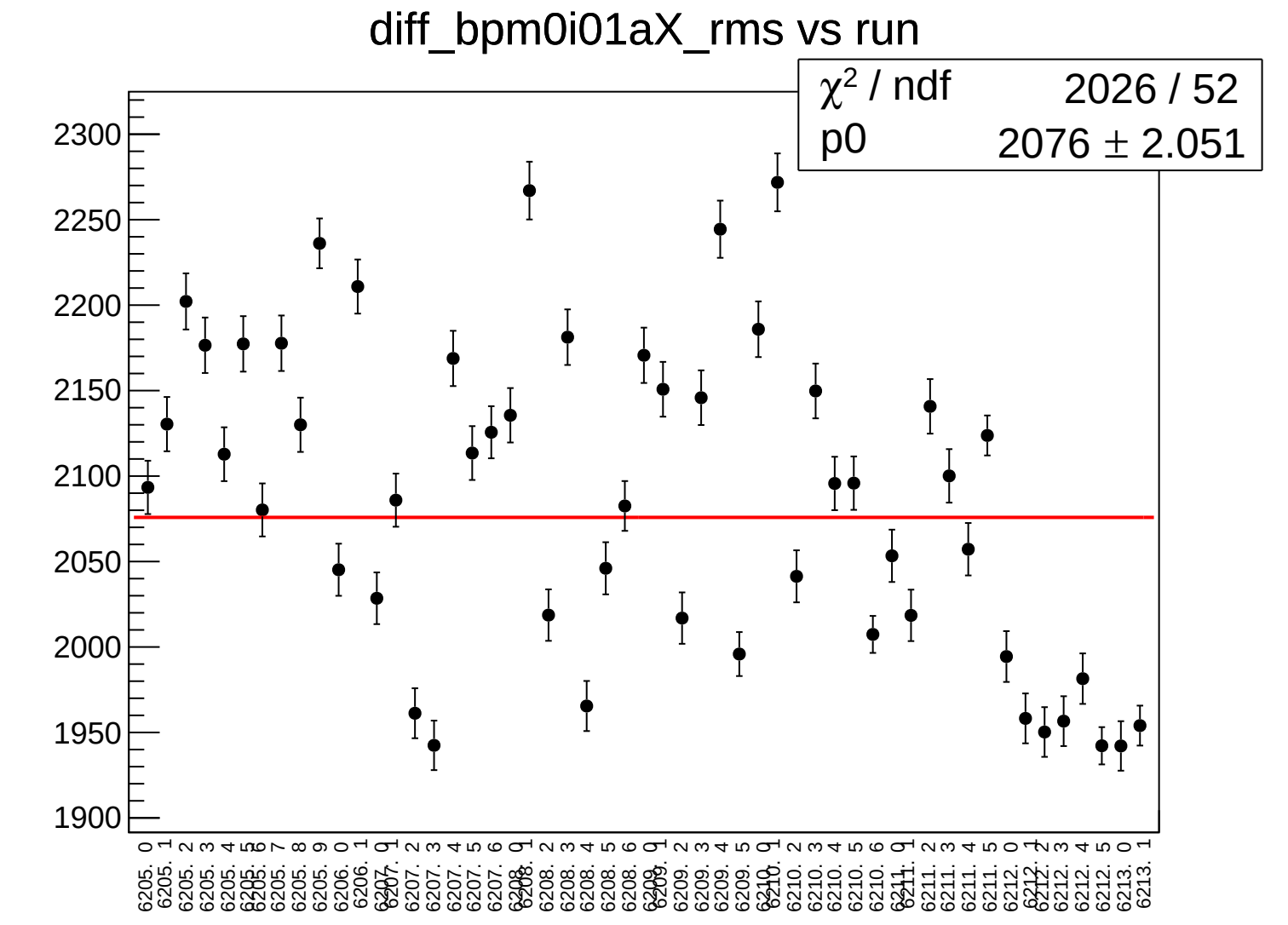

diff_bpm0i01Y_mean vs run
χ² / ndf 64.53 / 52
p0 13.79 ± 3.409
pull
Entries 53
Mean 827.9
Std Dev 792.9

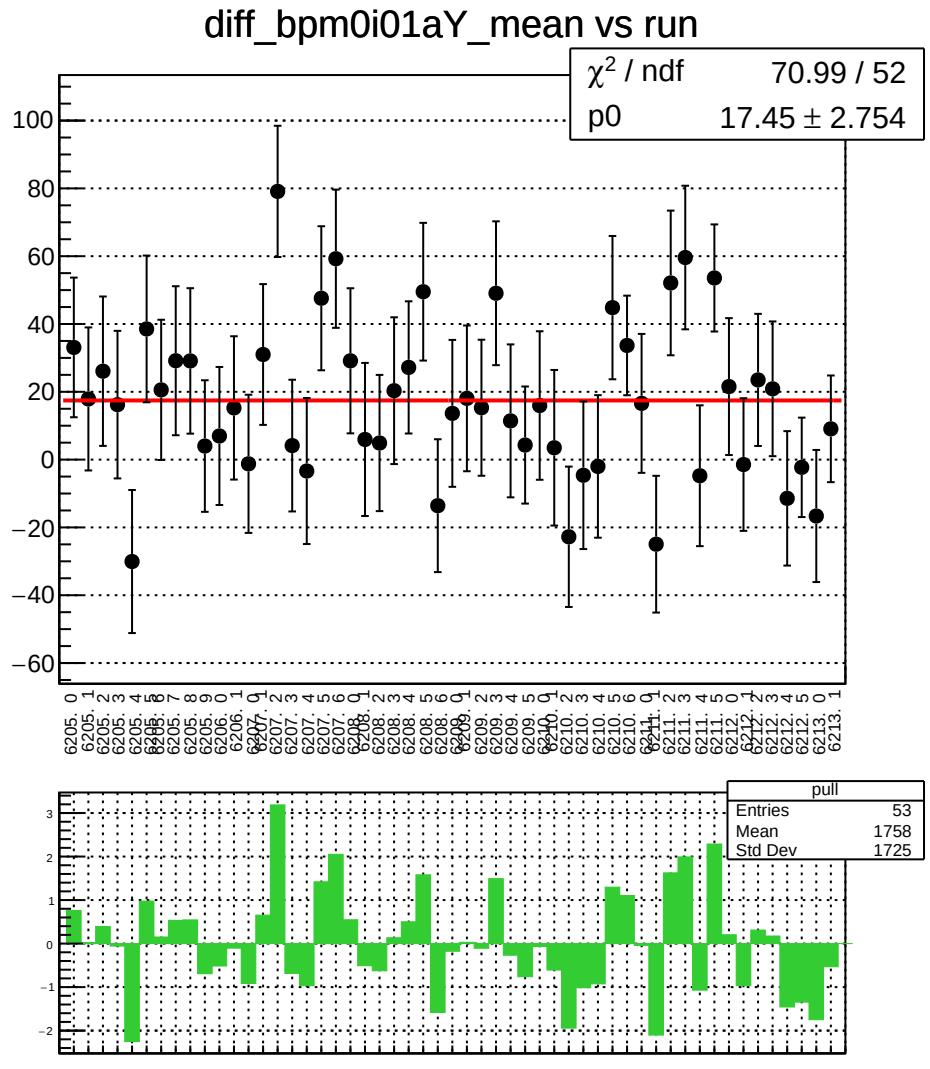

pull1D
Entries 53
Mean −0.002619
Std Dev 1.103

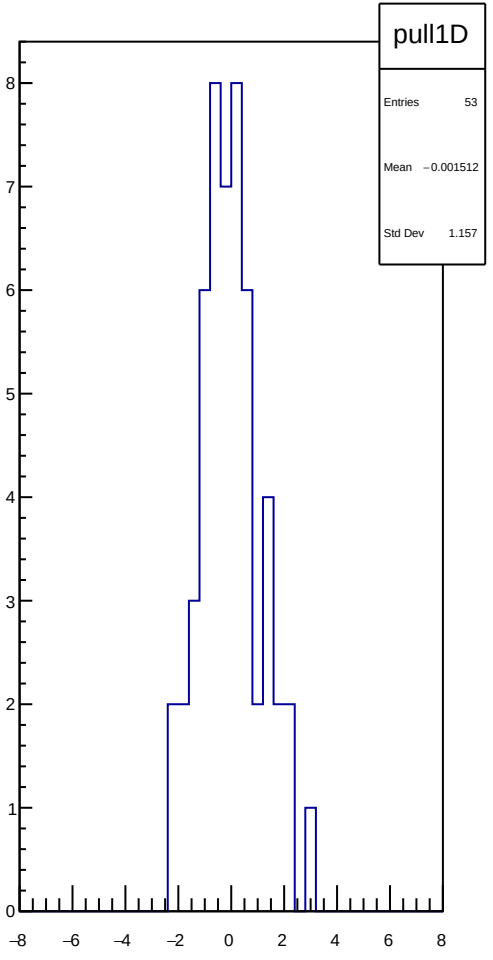

diff_bpm0i01Y_rms vs run
χ² / ndf 2159 / 52
p0 2439 ± 2.41
2700
2600
2500
2400
2300
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

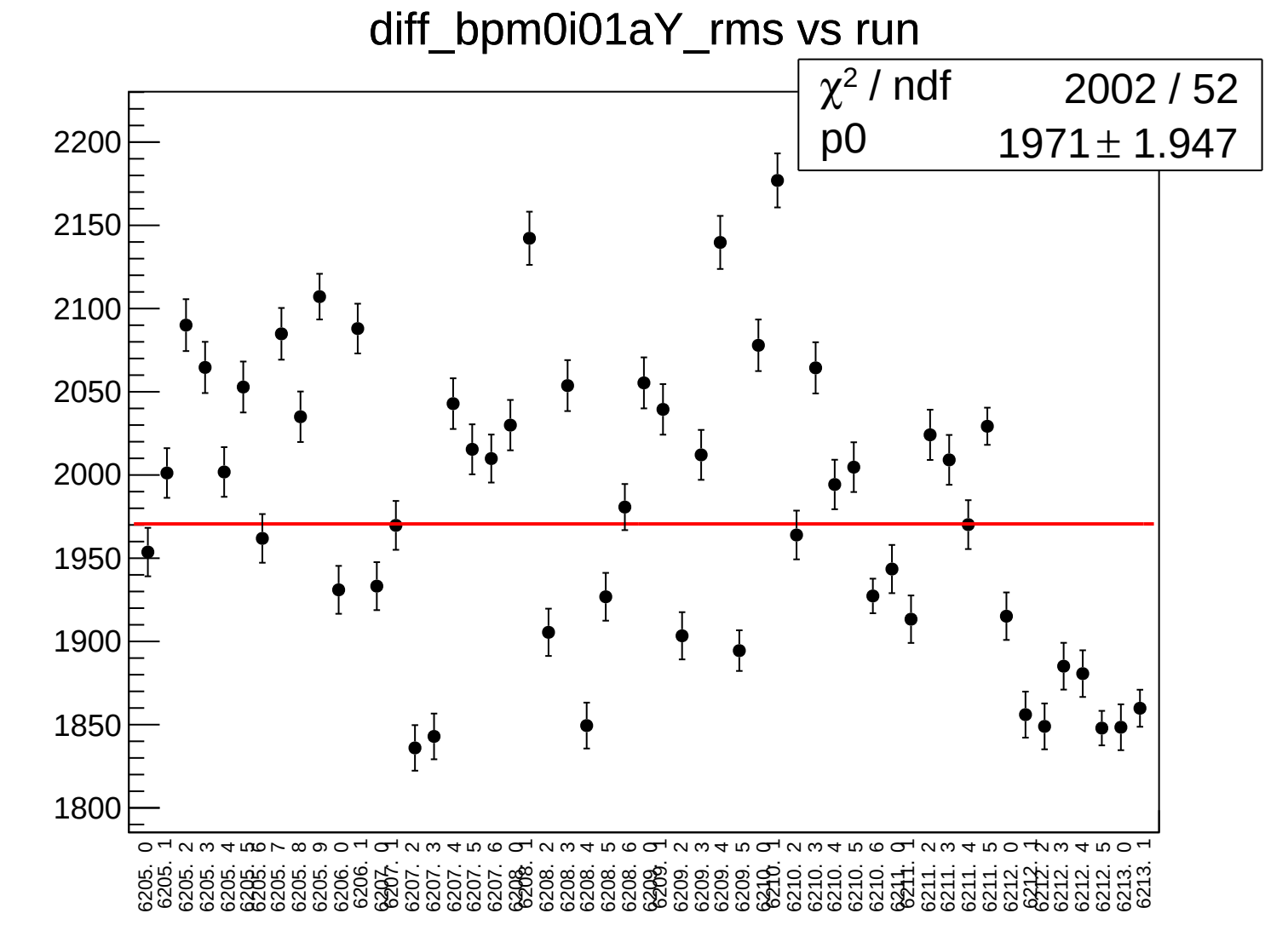

diff_bpm0i01aX_mean vs run
χ² / ndf 51.05 / 52
p0 69.9 ± 2.901
pull
Entries 53
Mean −347.4
Std Dev 374.6

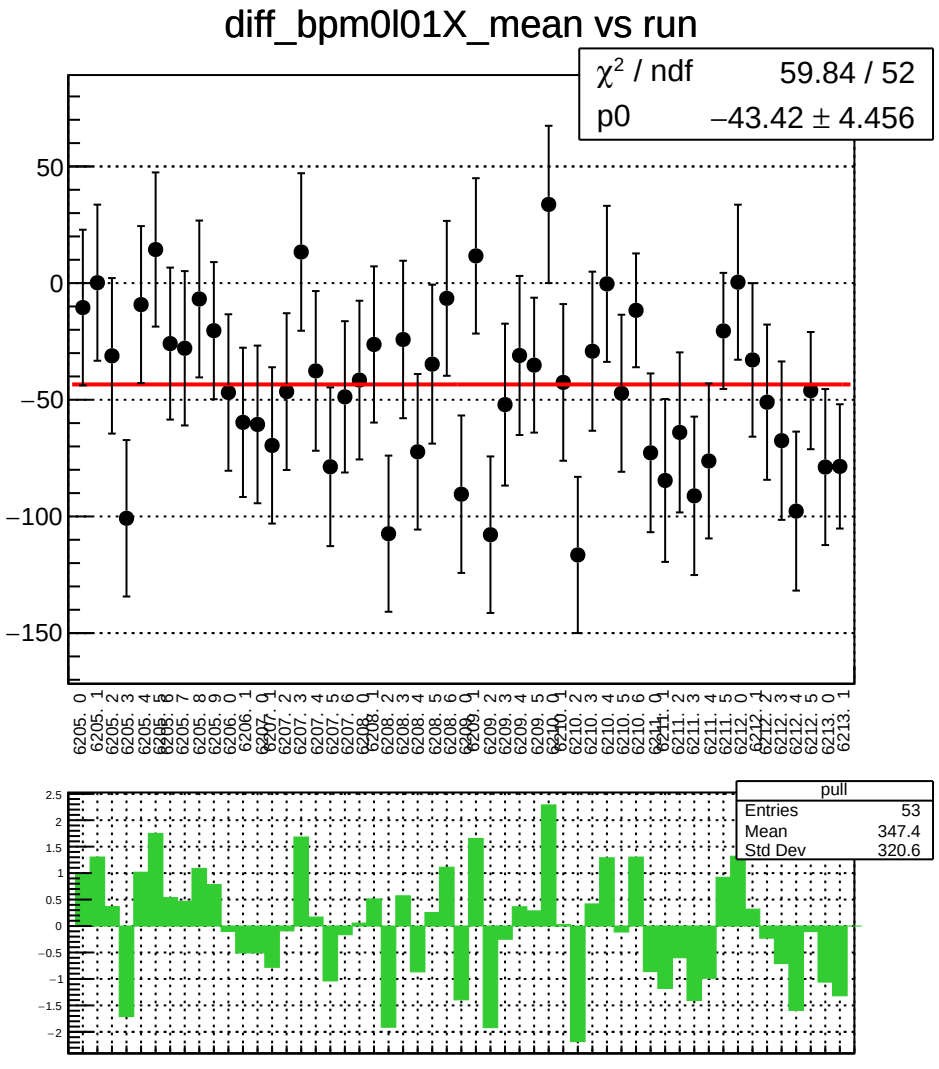

pull1D
Entries 53
Mean 0.01226
Std Dev 0.9814

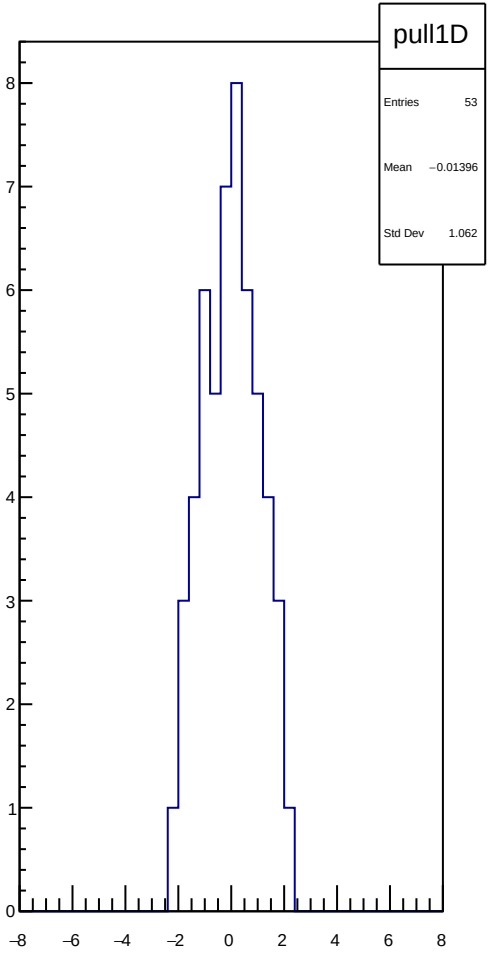

diff_bpm0i01aX_rms vs run
χ² / ndf 2026 / 52
p0 2076 ± 2.051
2300
2250
2200
2150
2100
2050
2000
1950
1900
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

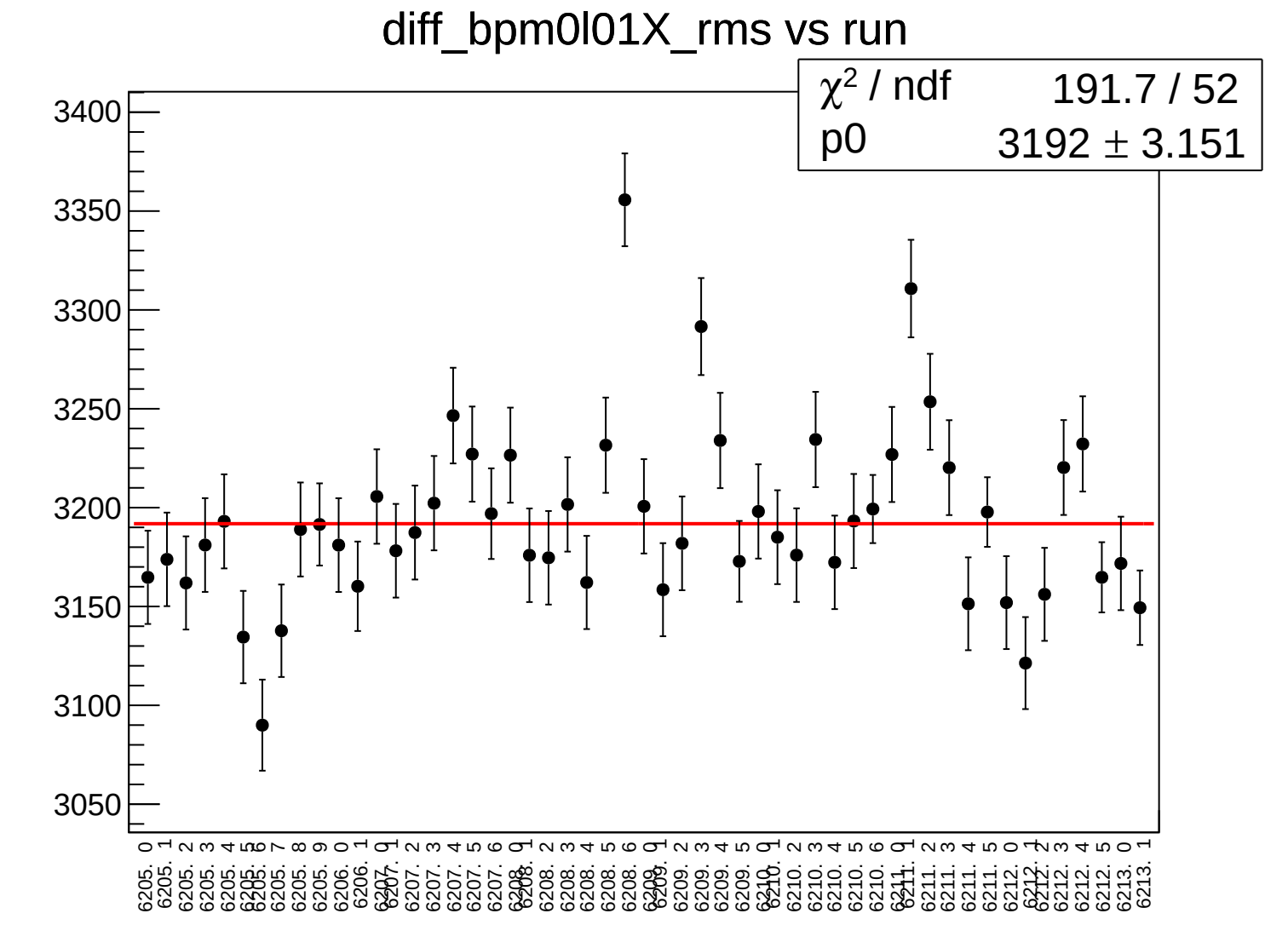

diff_bpm0i01aY_mean vs run
χ^2 / ndf 70.99 / 52
p0 17.45 ± 2.754
pull
Entries 53
Mean 1758
Std Dev 1725

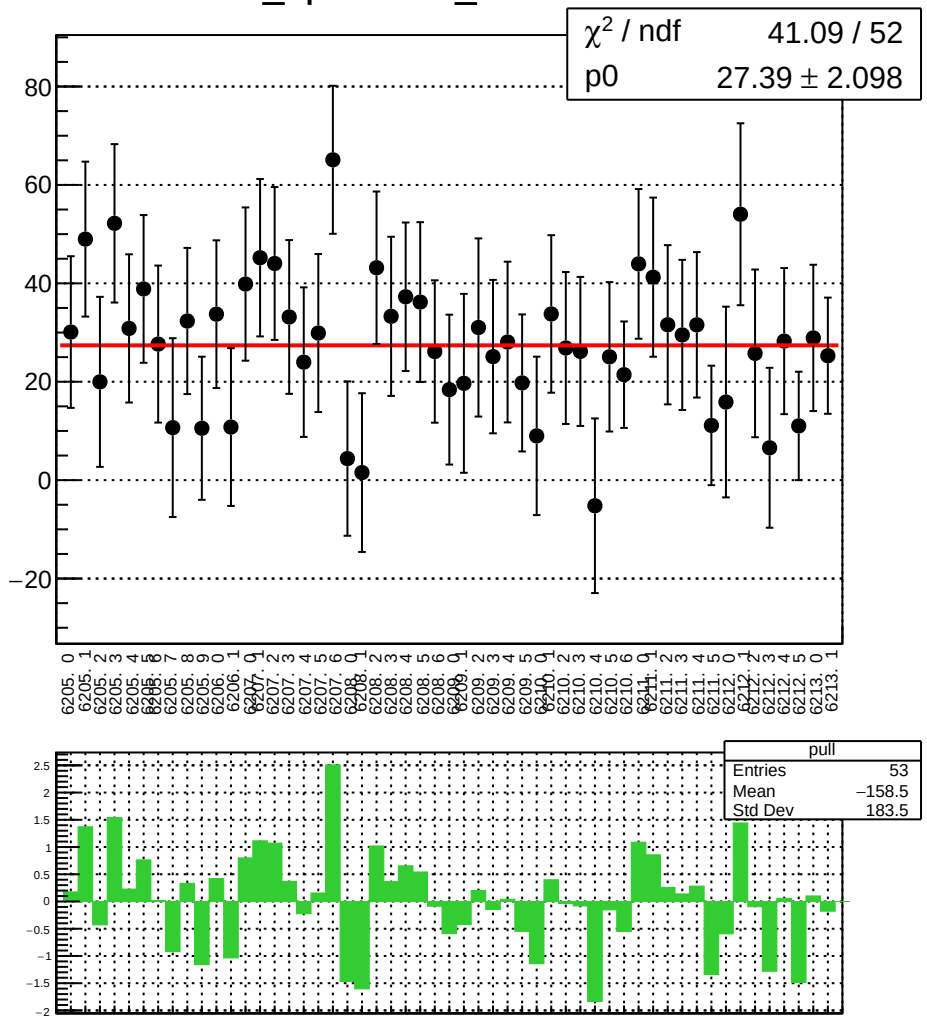

pull1D
Entries 53
Mean −0.001512
Std Dev 1.157

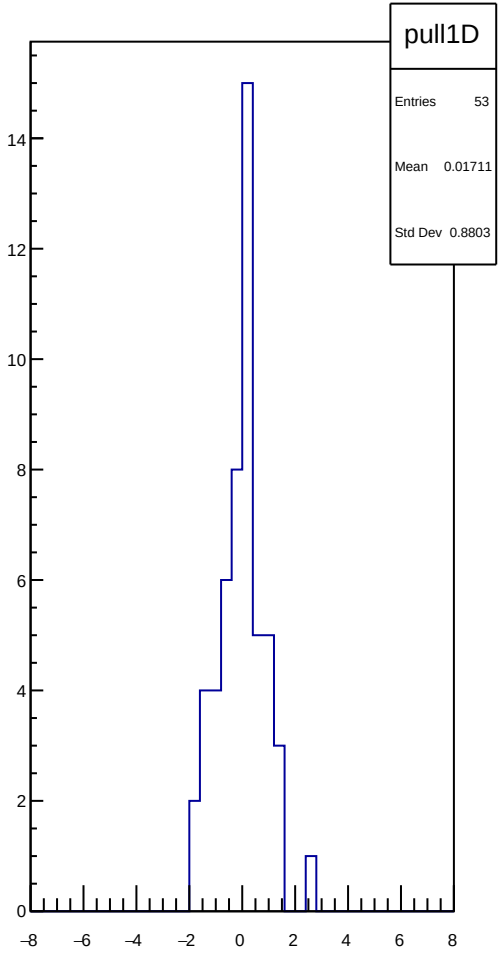

diff_bpm0i01aY_rms vs run
χ² / ndf 2002 / 52
p0 1971 ± 1.947
2200
2150
2100
2050
2000
1950
1900
1850
1800
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

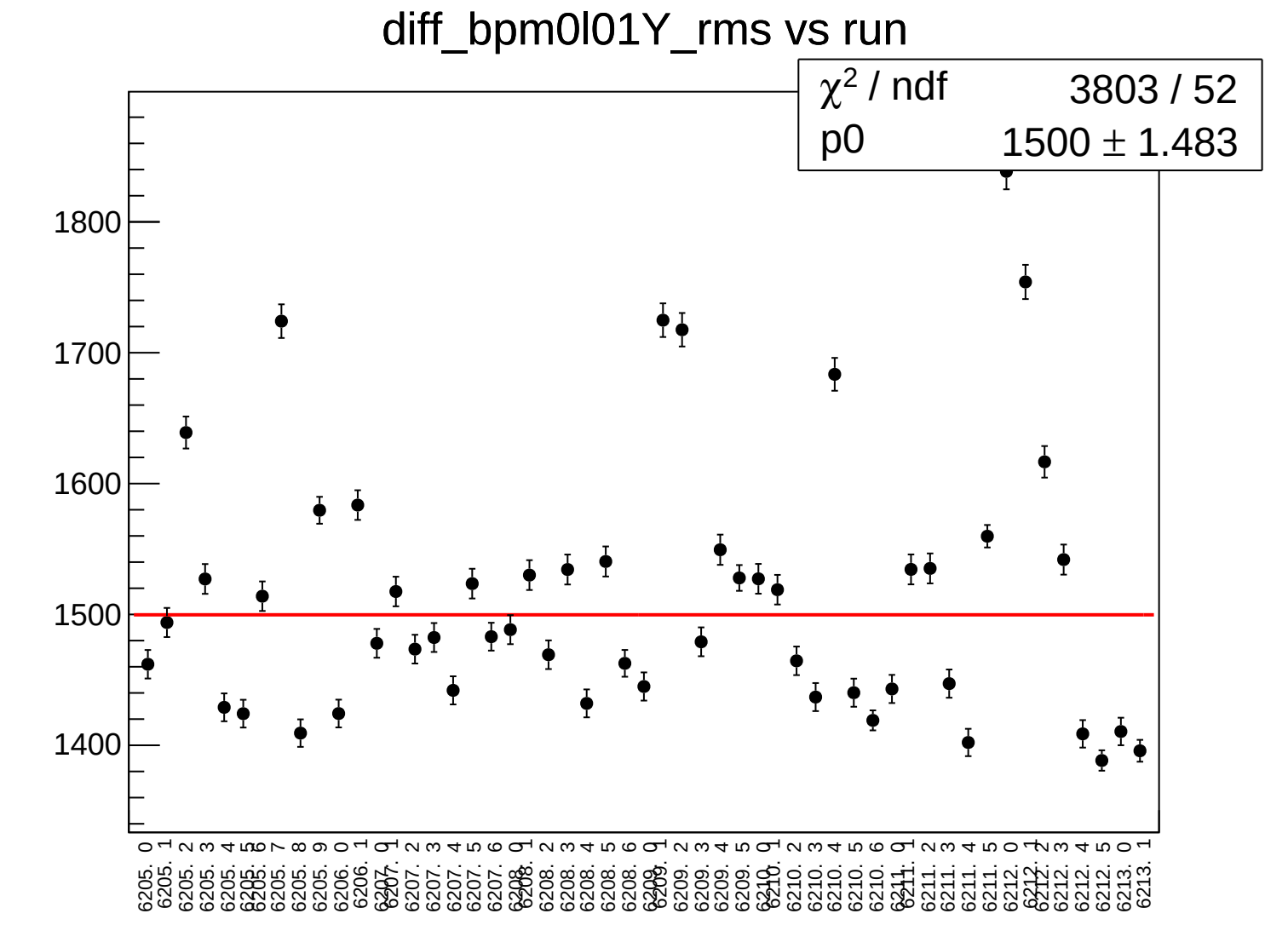

diff_bpm0l01X_mean vs run
χ² / ndf 59.84 / 52
p0 −43.42 ± 4.456
50
0
−50
−100
−150
pull
Entries 53
Mean 347.4
Std Dev 320.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

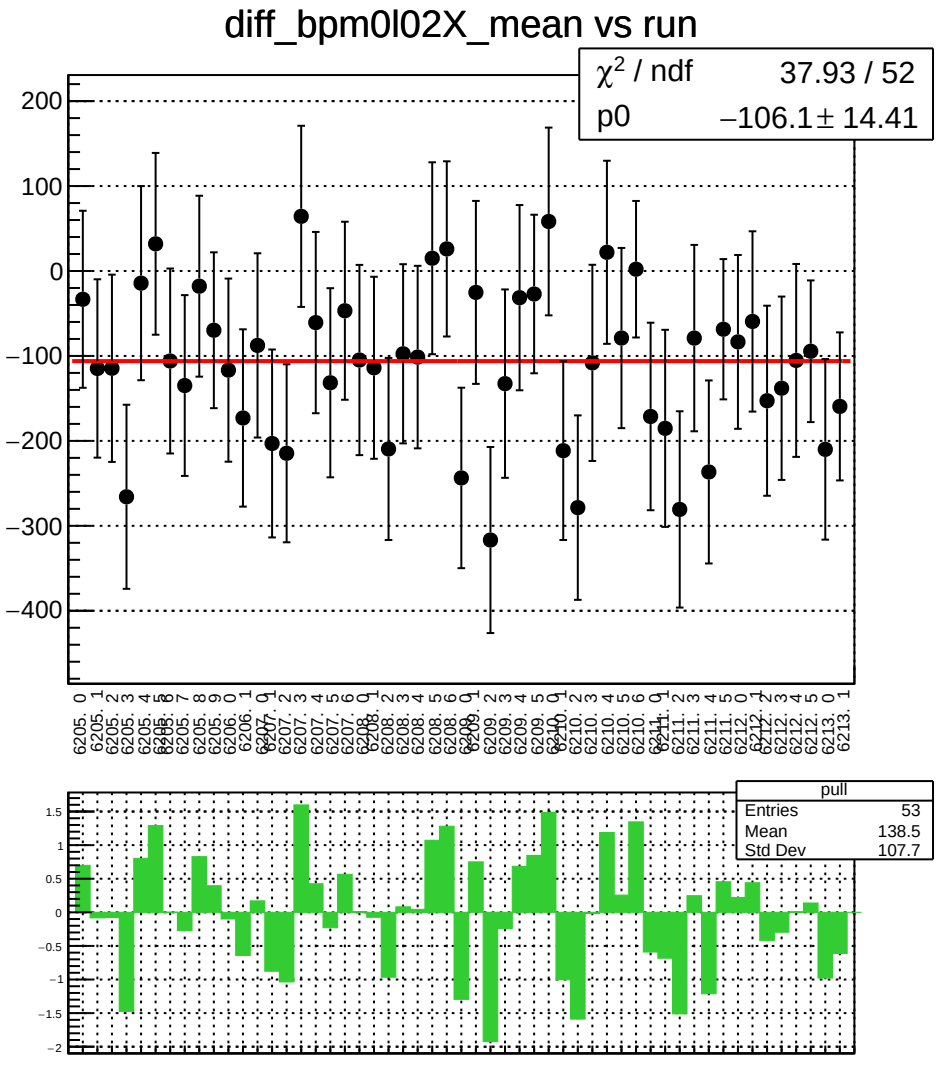

pull1D
Entries 53
Mean −0.01396
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

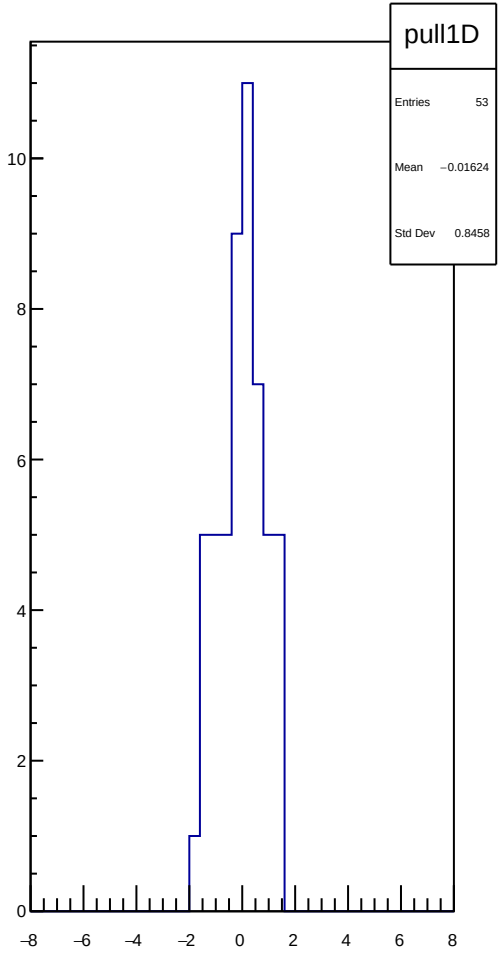

diff_bpm0l01X_rms vs run
χ² / ndf 191.7 / 52
p0 3192 ± 3.151
3400
3350
3300
3250
3200
3150
3100
3050
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

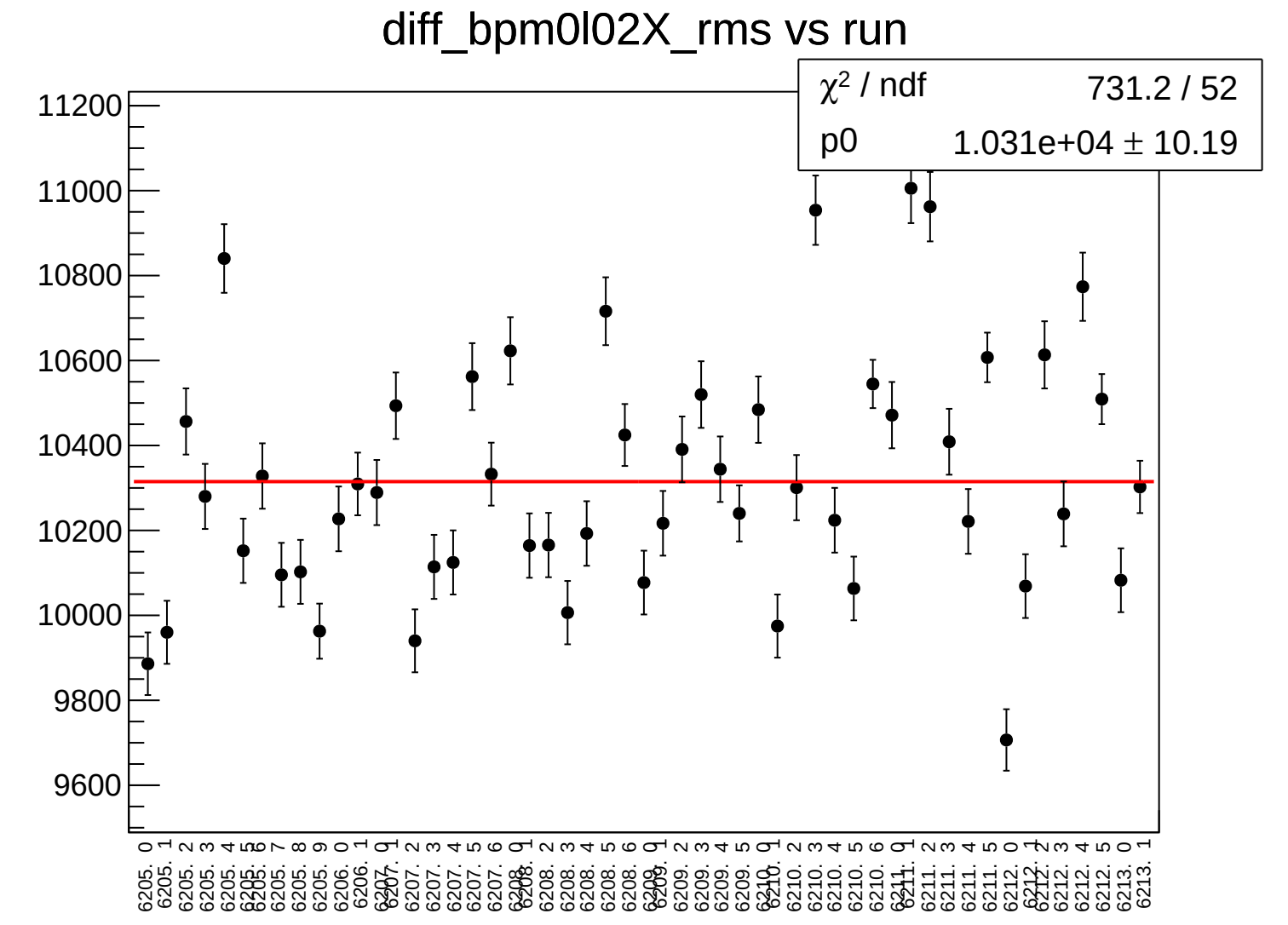

diff_bpm0l01Y_mean vs run
χ² / ndf 41.09 / 52
p0 27.39 ± 2.098
pull
Entries 53
Mean −158.5
Std Dev 183.5

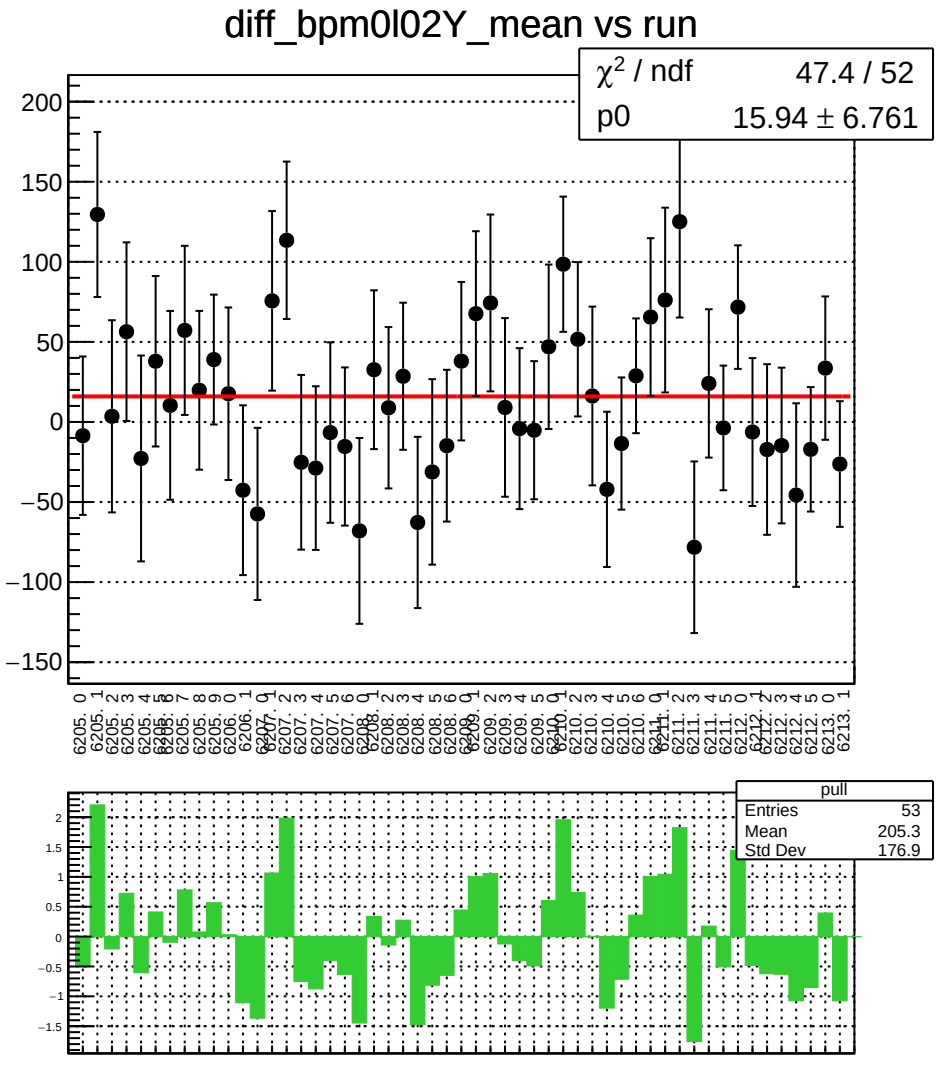

pull1D
Entries 53
Mean 0.01711
Std Dev 0.8803

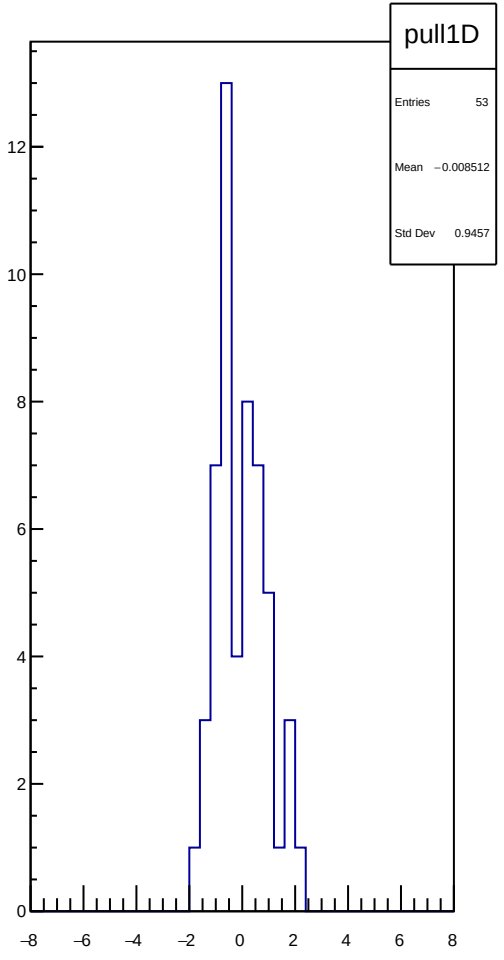

diff_bpm0l01Y_rms vs run
χ² / ndf 3803 / 52
p0 1500 ± 1.483
1800
1700
1600
1500
1400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

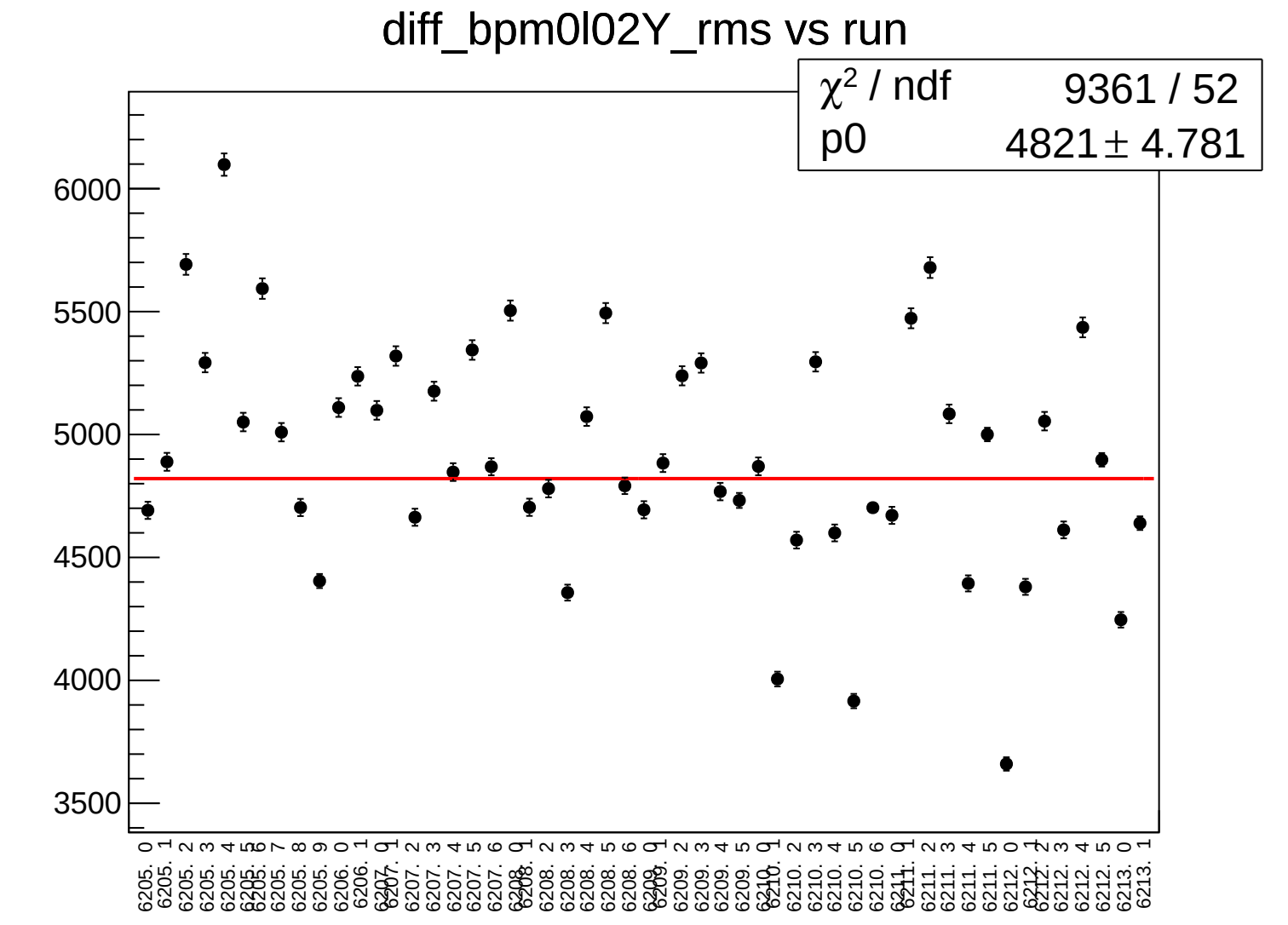

diff_bpm0l02X_mean vs run
χ² / ndf 37.93 / 52
p0 −106.1 ± 14.41
pull
Entries 53
Mean 138.5
Std Dev 107.7

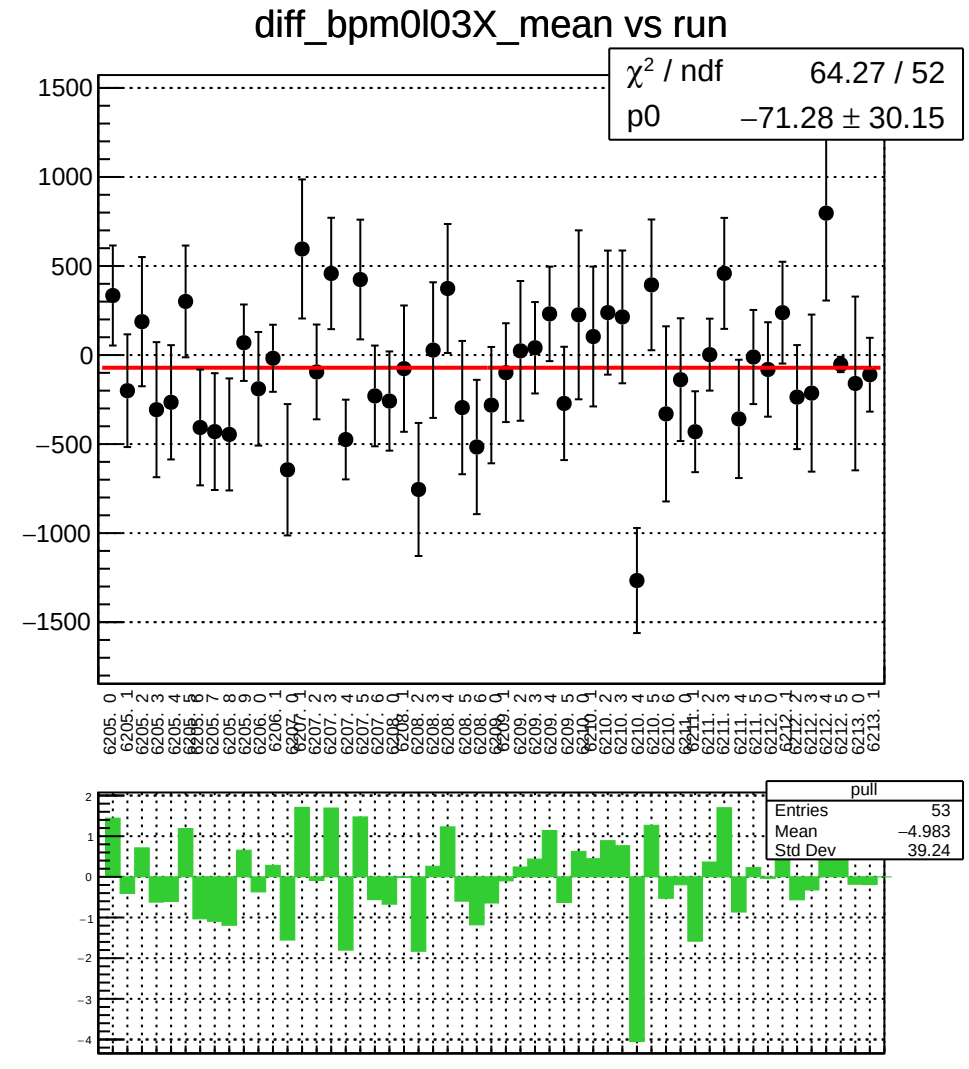

pull1D
Entries 53
Mean −0.01624
Std Dev 0.8458

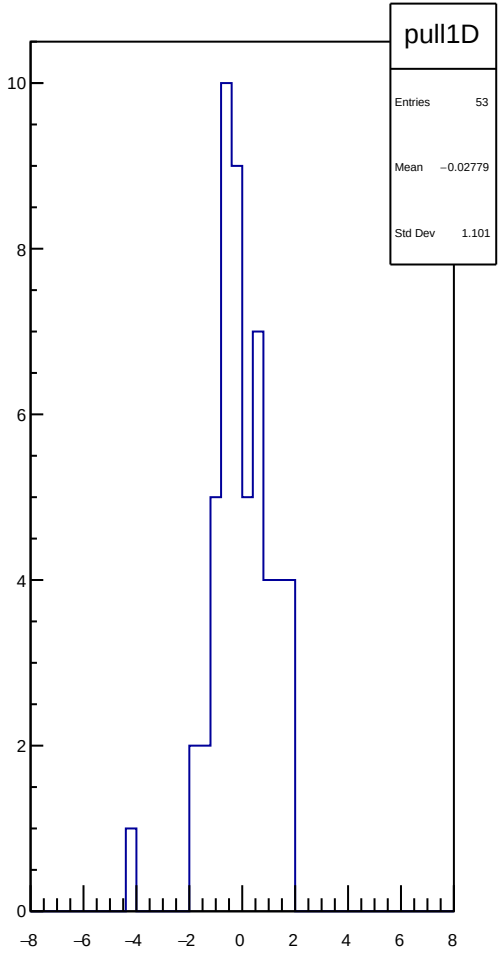

diff_bpm0l02X_rms vs run
χ² / ndf 731.2 / 52
p0 1.031e+04 ± 10.19
11200
11000
10800
10600
10400
10200
10000
9800
9600
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6212. 6
6212. 7
6212. 8
6212. 9
6213. 0
6213. 1

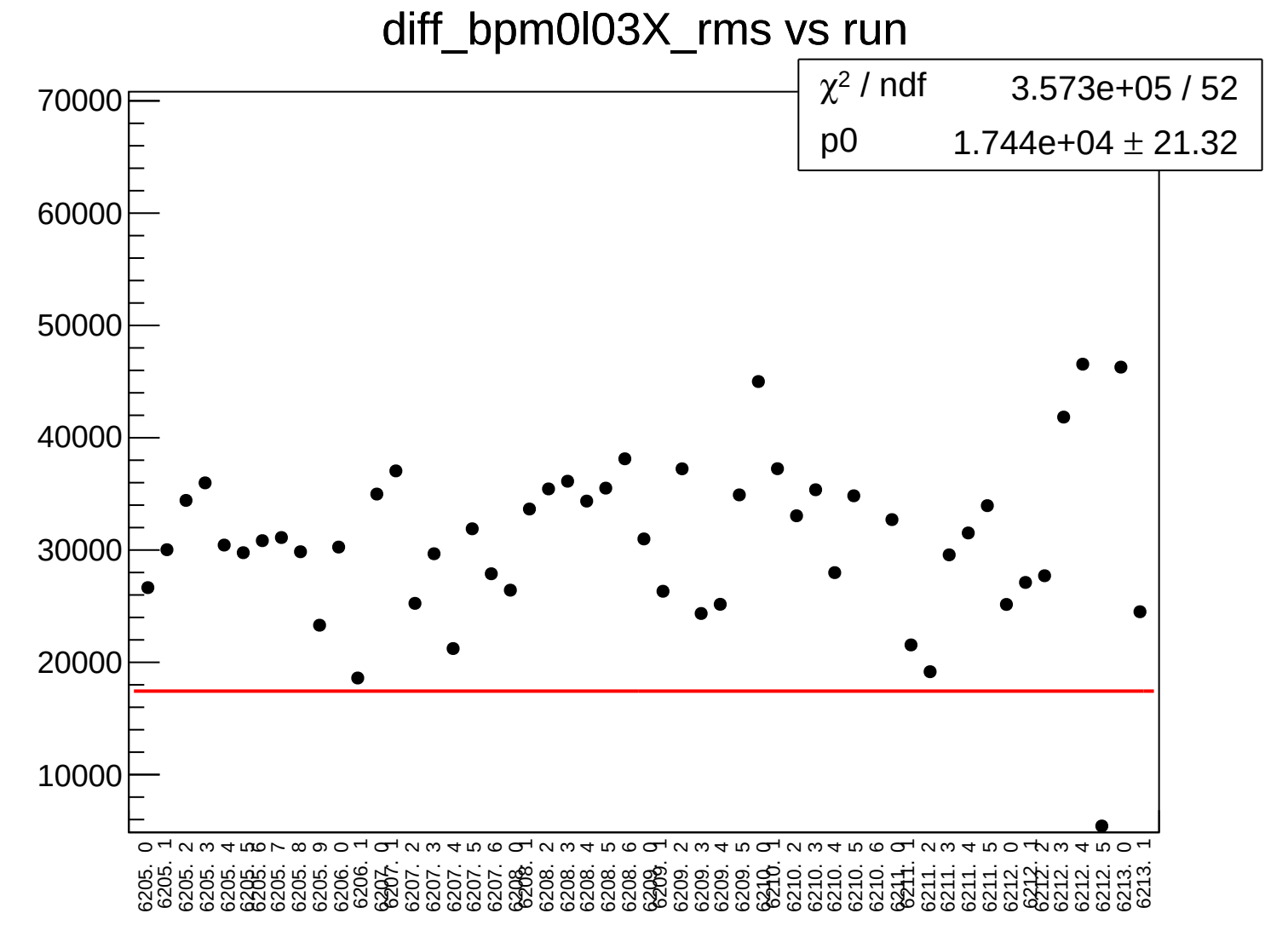

diff_bpm0l02Y_mean vs run
χ² / ndf 47.4 / 52
p0 15.94 ± 6.761
pull
Entries 53
Mean 205.3
Std Dev 176.9

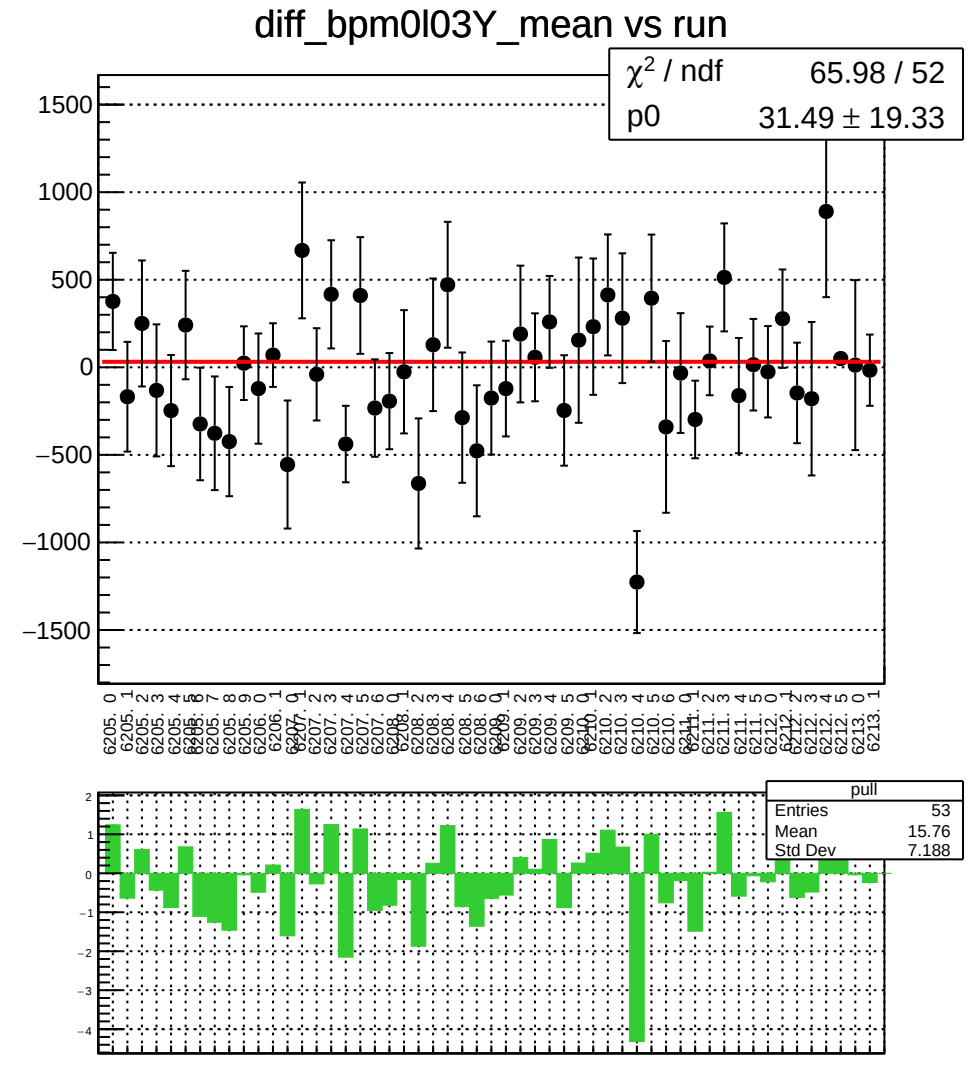

pull1D
Entries 53
Mean −0.008512
Std Dev 0.9457

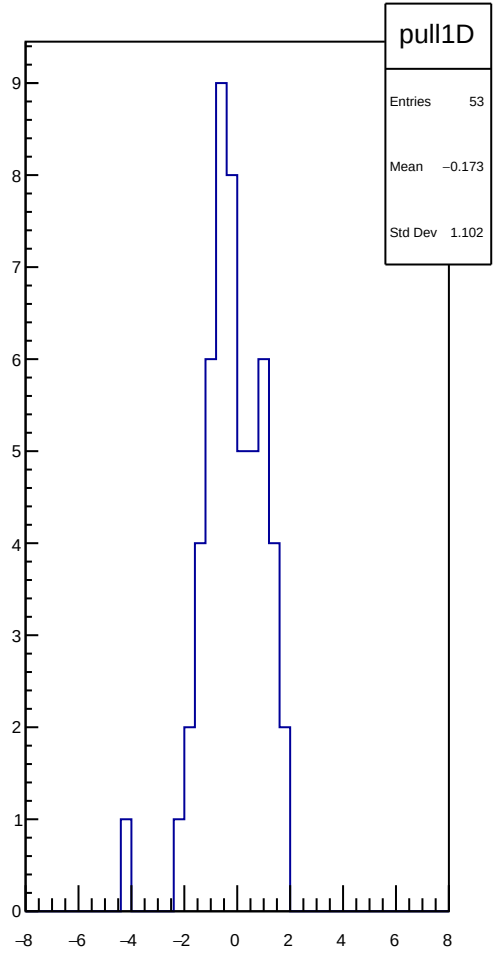

diff_bpm0l02Y_rms vs run
χ² / ndf 9361 / 52
p0 4821 ± 4.781
6000
5500
5000
4500
4000
3500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6212. 6
6212. 7
6212. 8
6212. 9
6213. 0
6213. 1

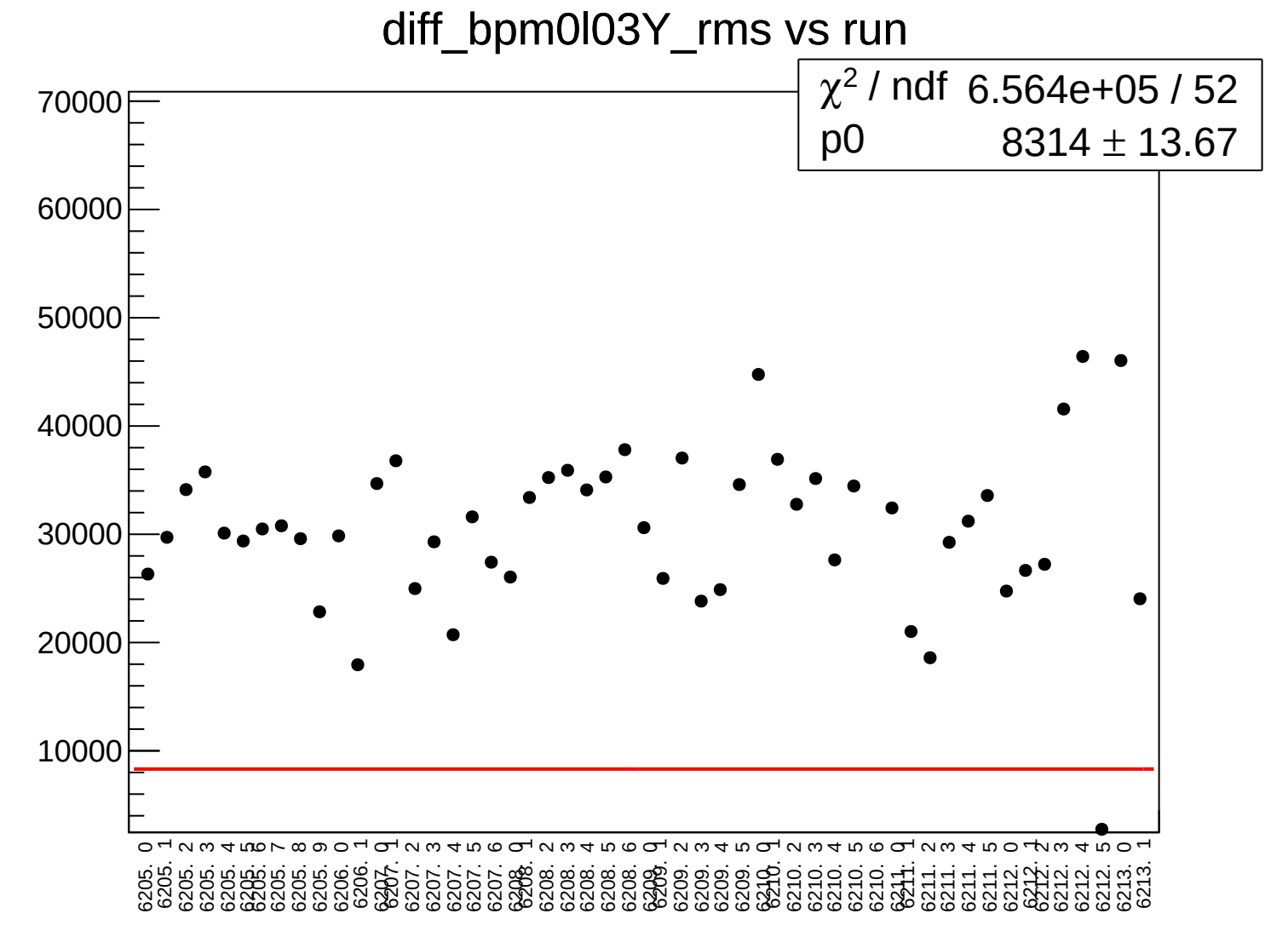

diff_bpm0l03X_mean vs run
χ² / ndf 64.27 / 52
p0 −71.28 ± 30.15
pull
Entries 53
Mean −4.983
Std Dev 39.24

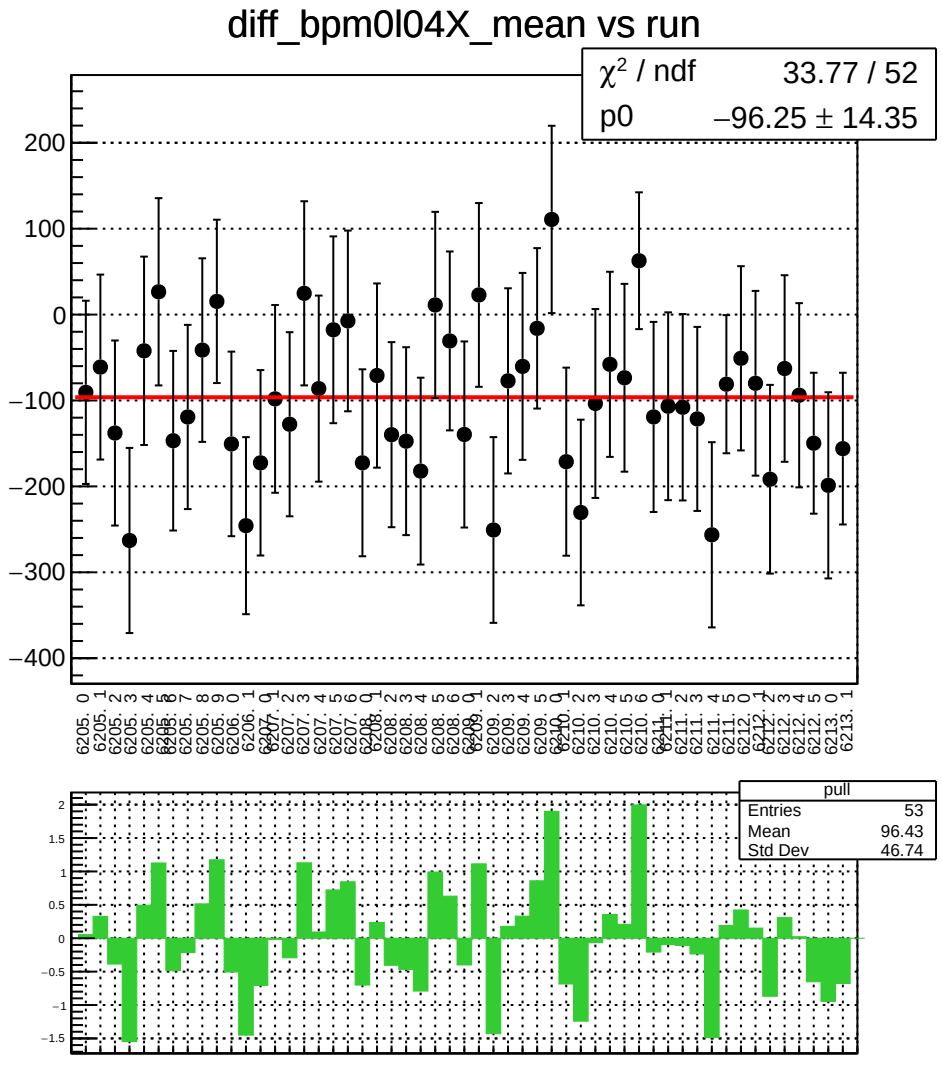

pull1D
Entries 53
Mean −0.02779
Std Dev 1.101

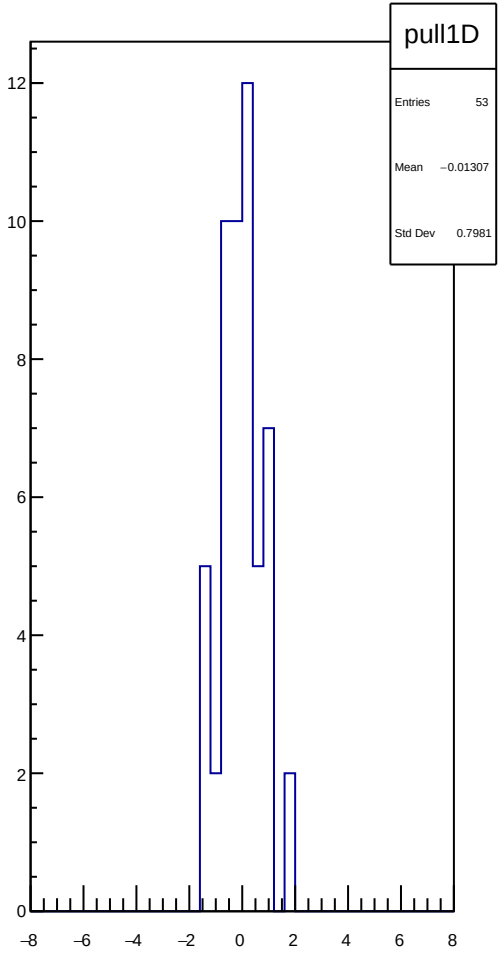

diff_bpm0l03X_rms vs run
χ² / ndf 3.573e+05 / 52
p0 1.744e+04 ± 21.32
70000
60000
50000
40000
30000
20000
10000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

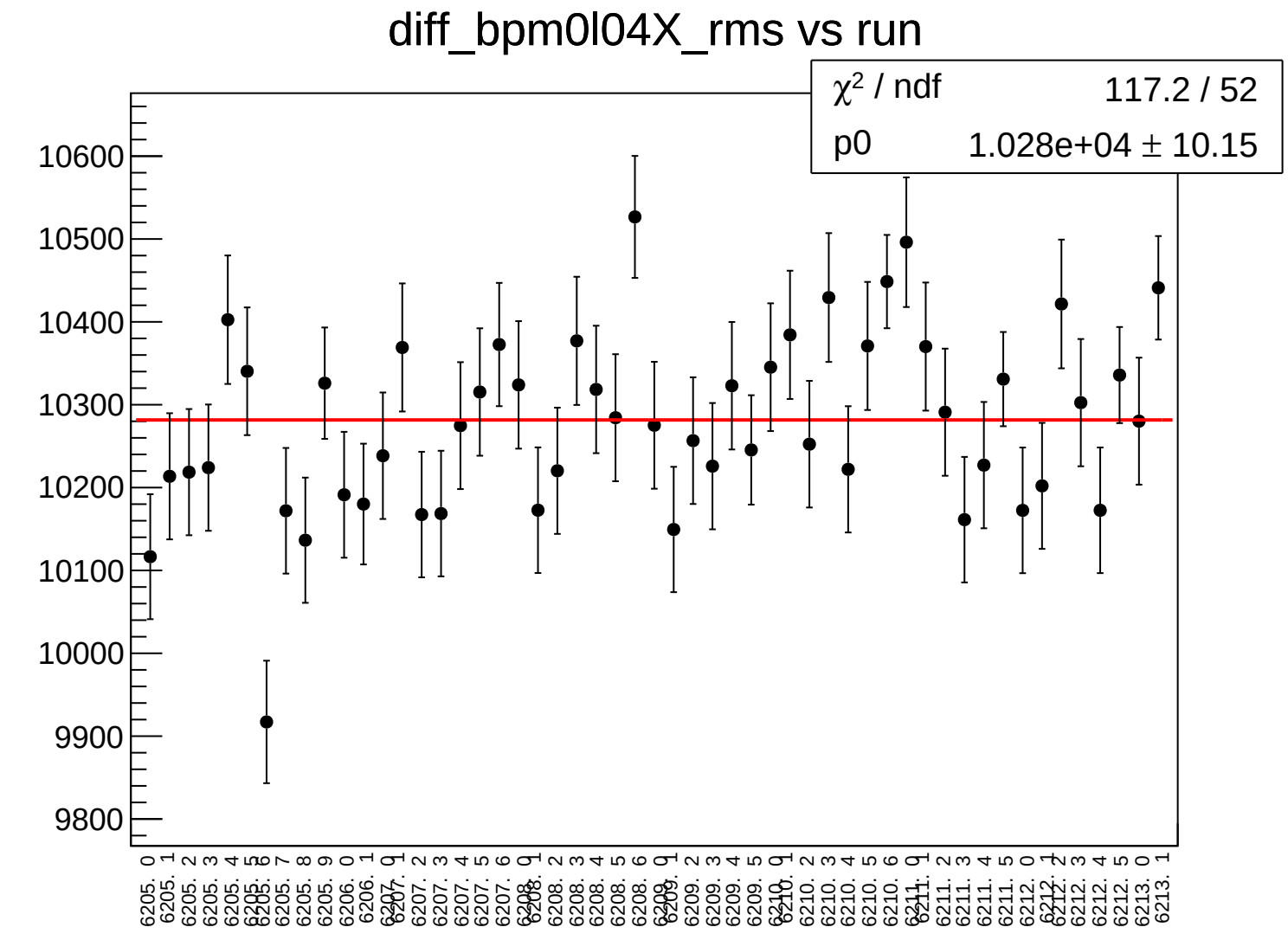

diff_bpm0l03Y_mean vs run
χ² / ndf 65.98 / 52
p0 31.49 ± 19.33
pull
Entries 53
Mean 15.76
Std Dev 7.188

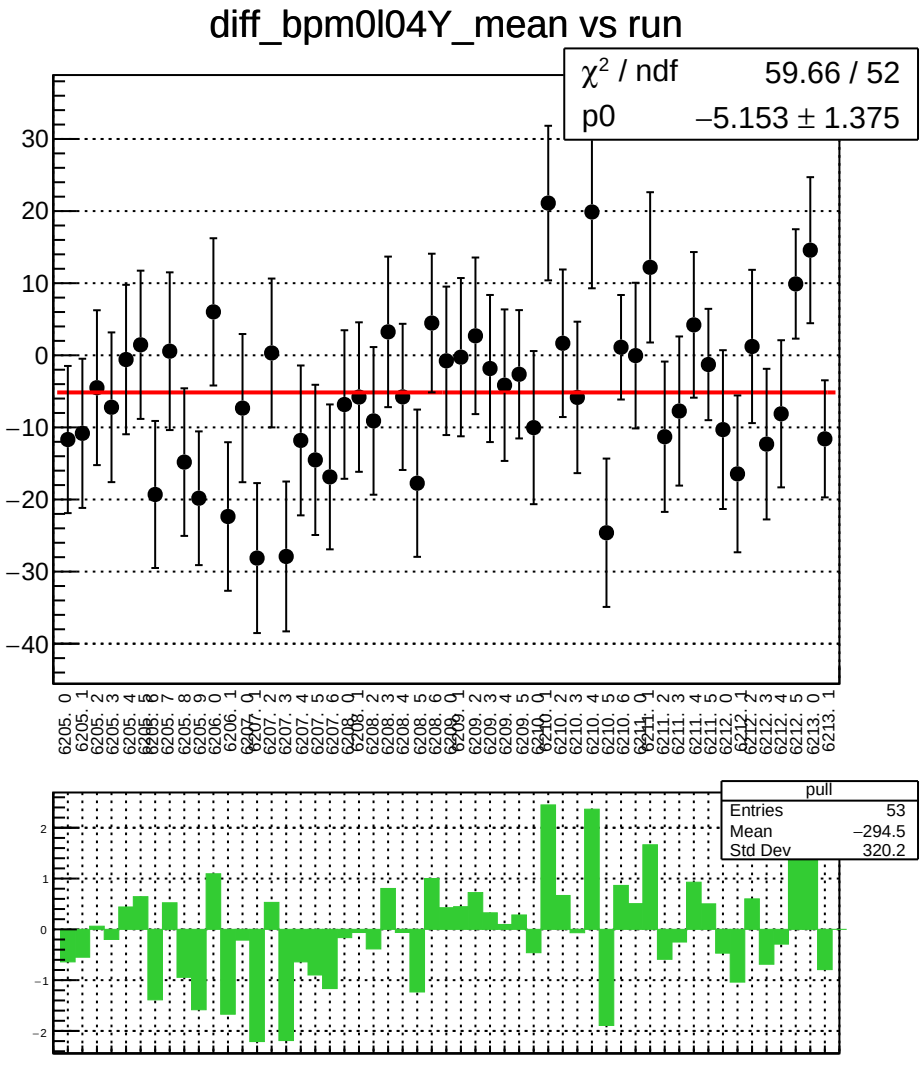

pull1D
Entries 53
Mean −0.173
Std Dev 1.102

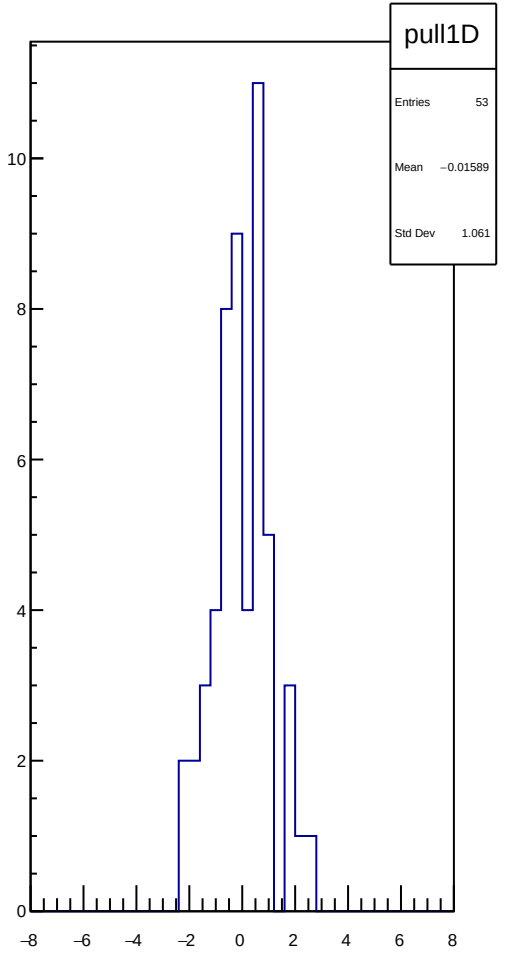

diff_bpm0l03Y_rms vs run
χ² / ndf 6.564e+05 / 52
p0 8314 ± 13.67
70000
60000
50000
40000
30000
20000
10000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

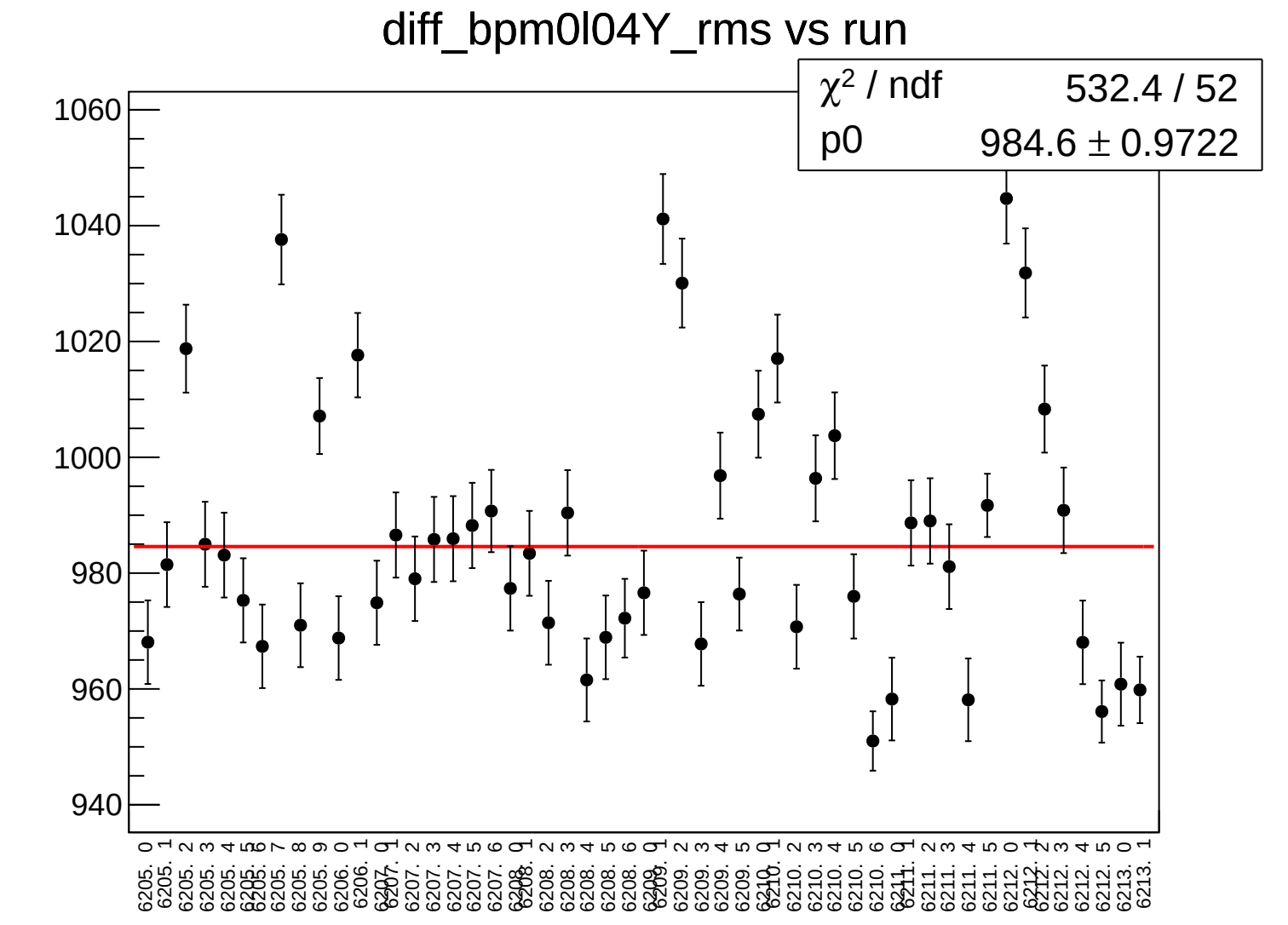

diff_bpm0l04X_mean vs run
χ² / ndf 33.77 / 52
p0 −96.25 ± 14.35
pull
Entries 53
Mean 96.43
Std Dev 46.74

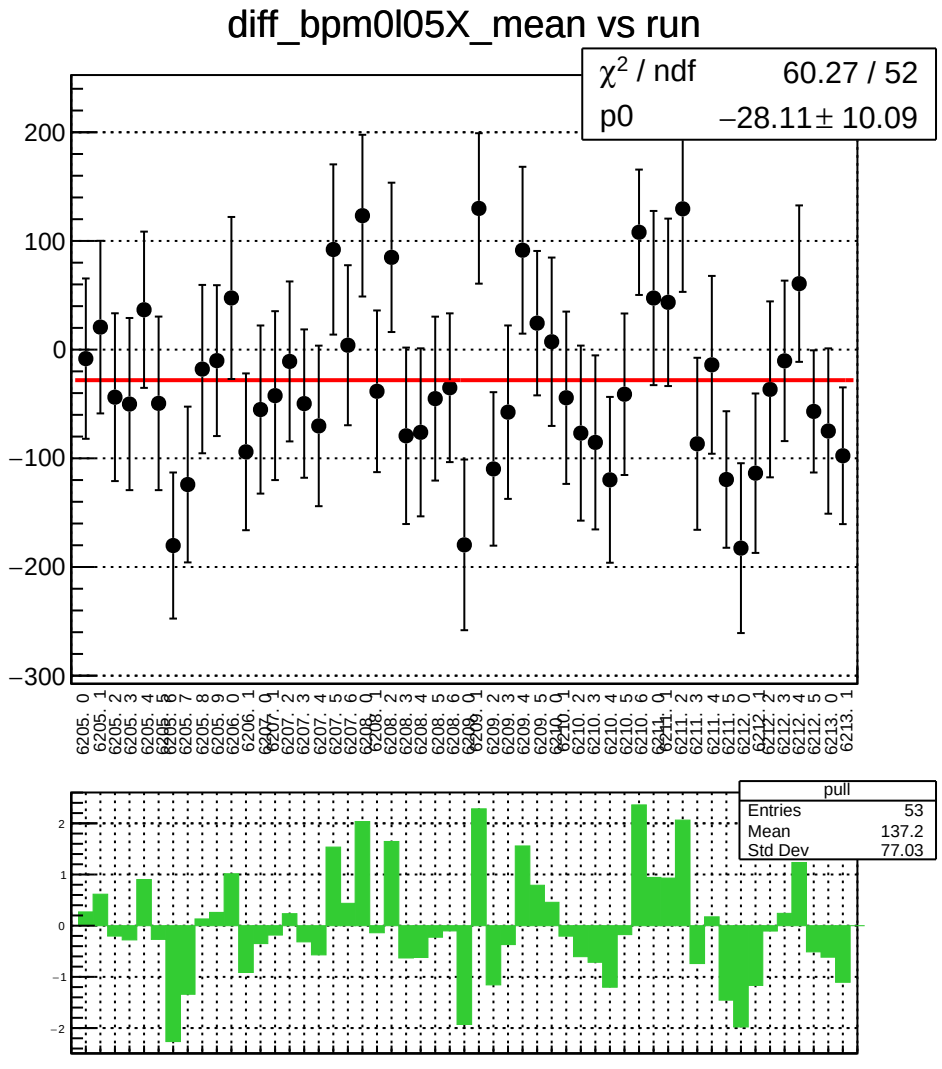

pull1D
Entries 53
Mean −0.01307
Std Dev 0.7981

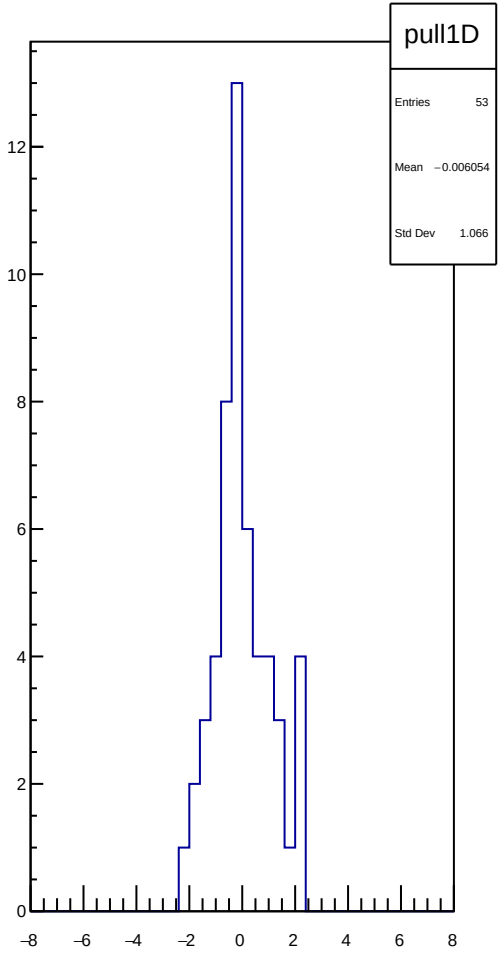

diff_bpm0l04X_rms vs run
χ² / ndf 117.2 / 52
p0 1.028e+04 ± 10.15
10600
10500
10400
10300
10200
10100
10000
9900
9800
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

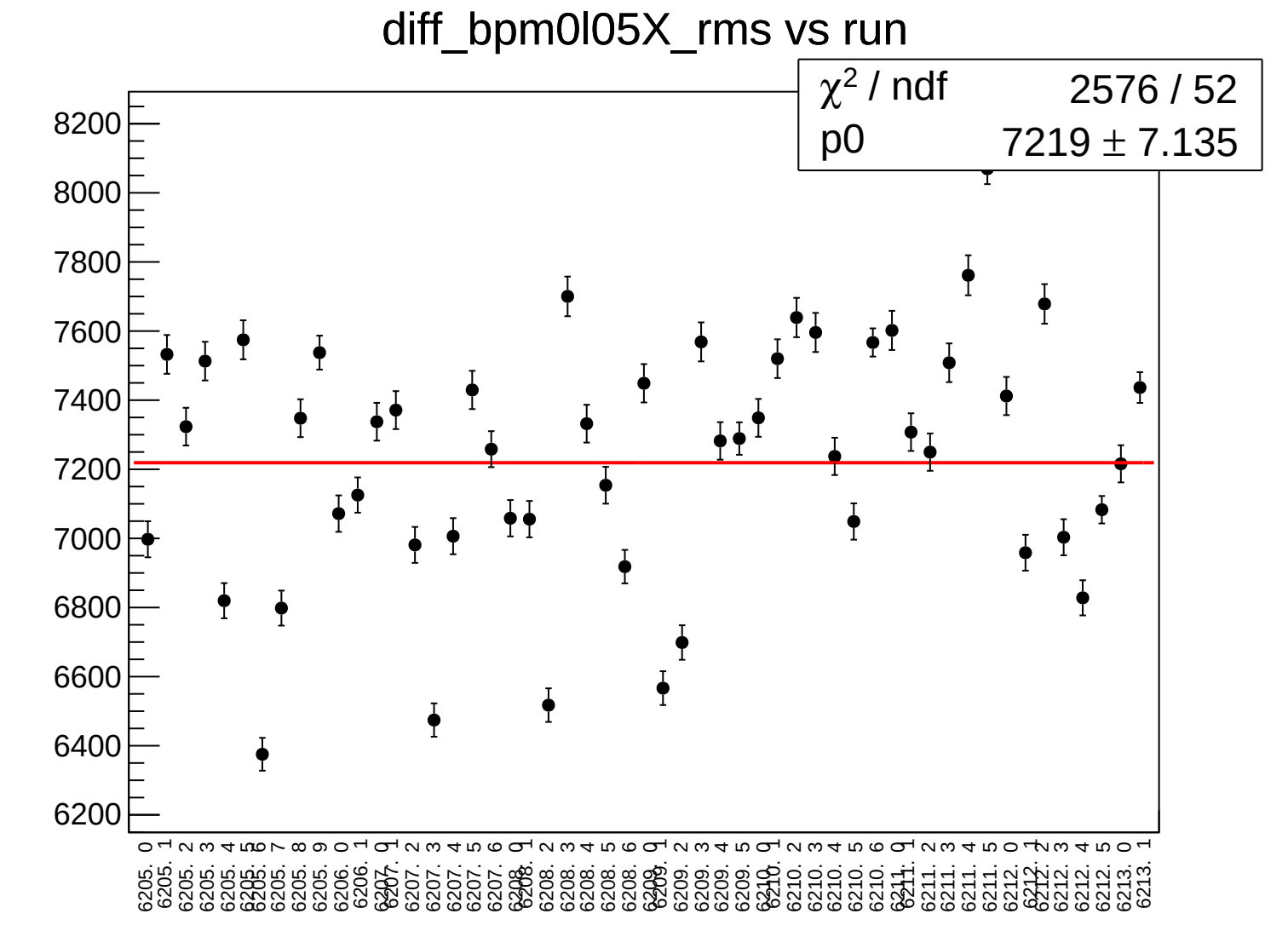

diff_bpm0l04Y_mean vs run
χ² / ndf 59.66 / 52
p0 −5.153 ± 1.375
pull
Entries 53
Mean −294.5
Std Dev 320.2

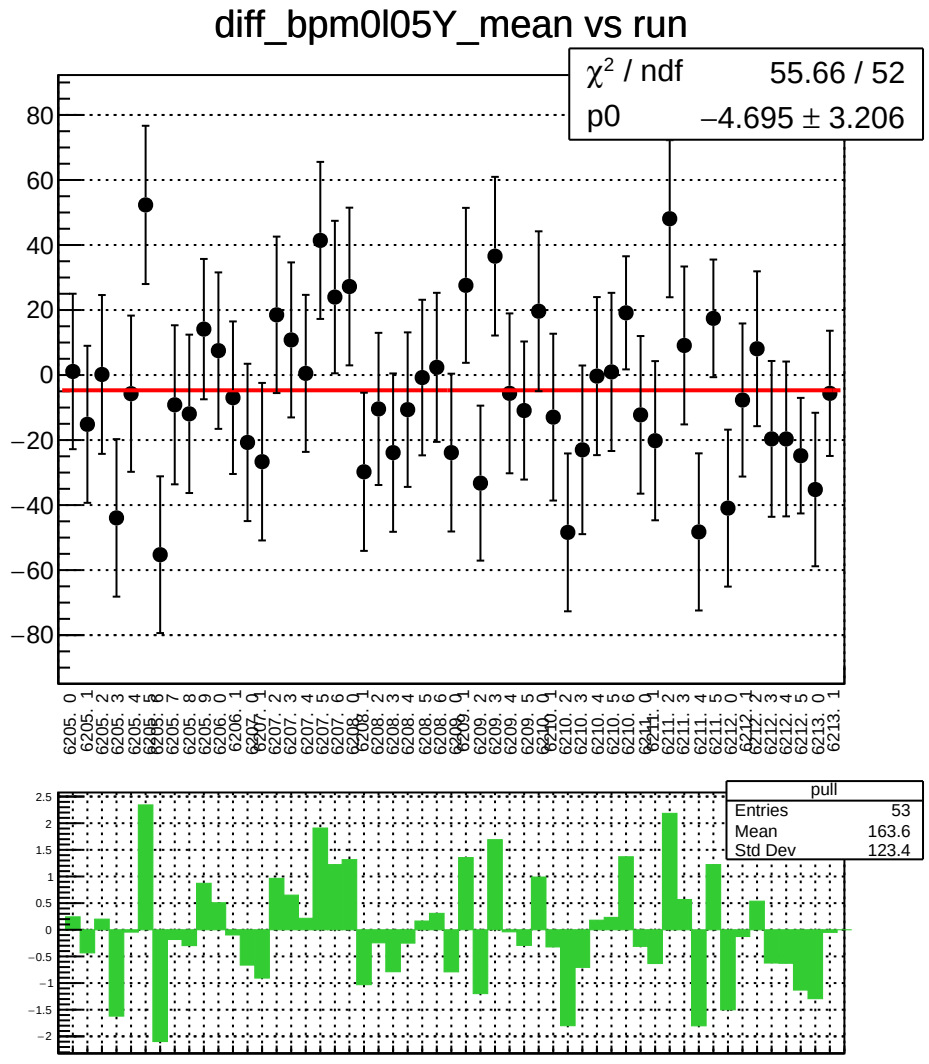

pull1D
Entries 53
Mean −0.01589
Std Dev 1.061

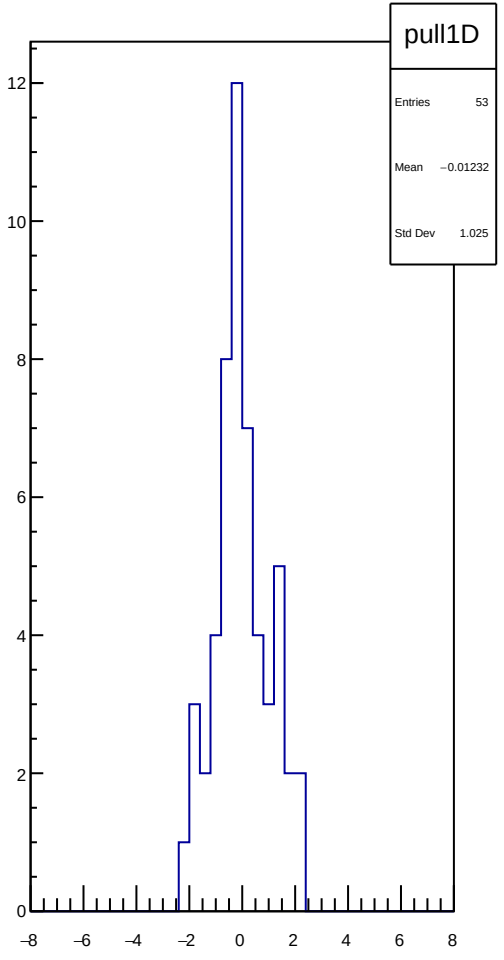

diff_bpm0l04Y_rms vs run
χ² / ndf 532.4 / 52
p0 984.6 ± 0.9722
1060
1040
1020
1000
980
960
940
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

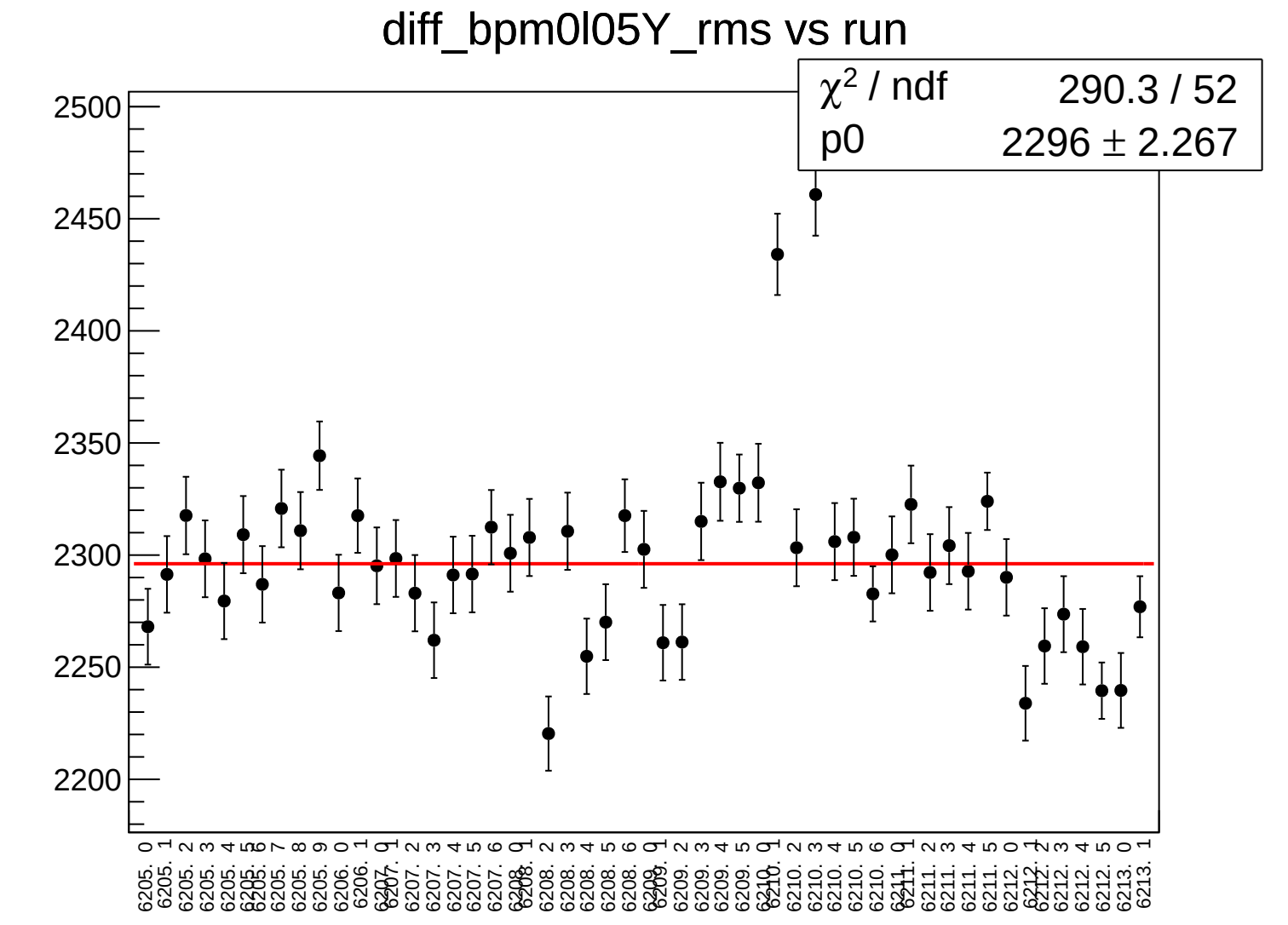

diff_bpm0l05X_mean vs run
χ² / ndf 60.27 / 52
p0 −28.11± 10.09
pull
Entries 53
Mean 137.2
Std Dev 77.03

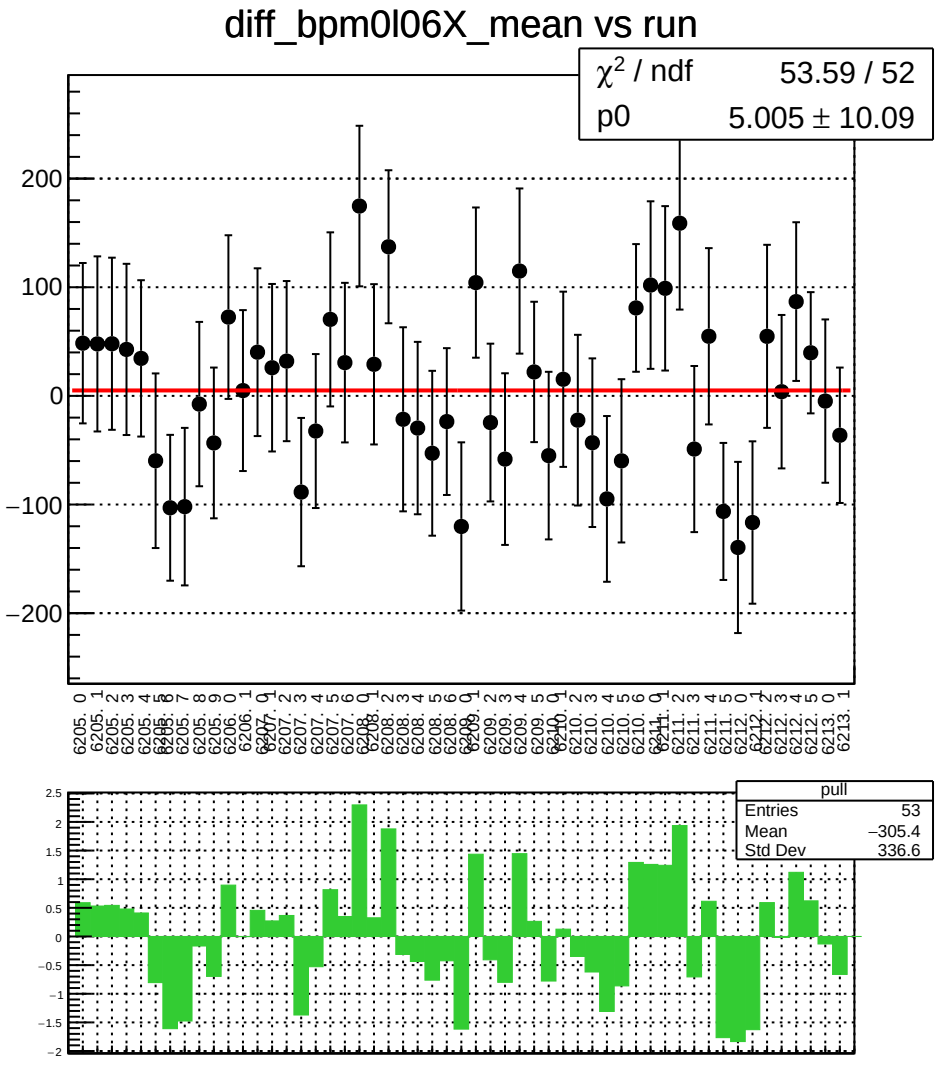

pull1D
Entries 53
Mean −0.006054
Std Dev 1.066

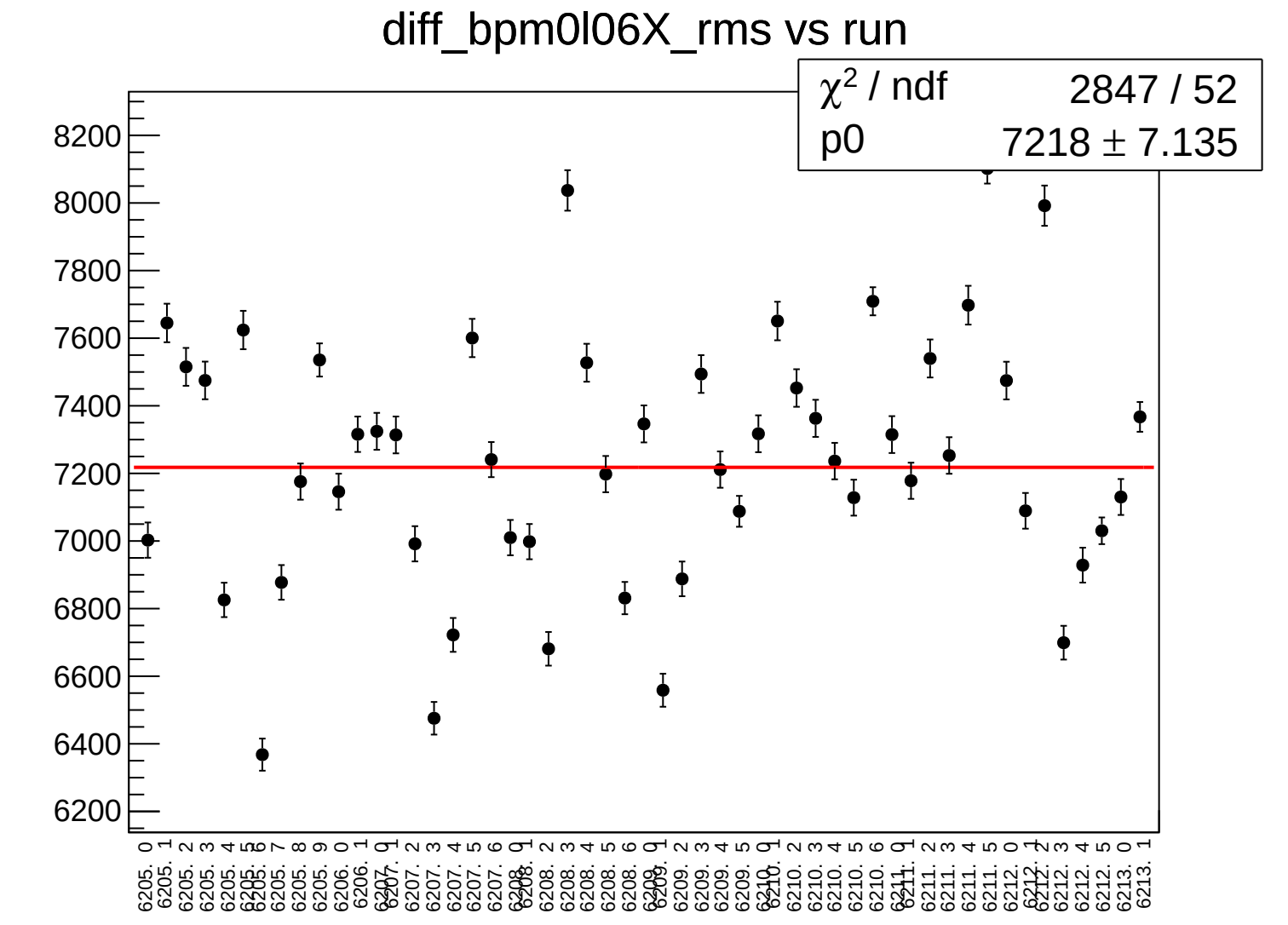

diff_bpm0l05X_rms vs run
χ² / ndf 2576 / 52
p0 7219 ± 7.135
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

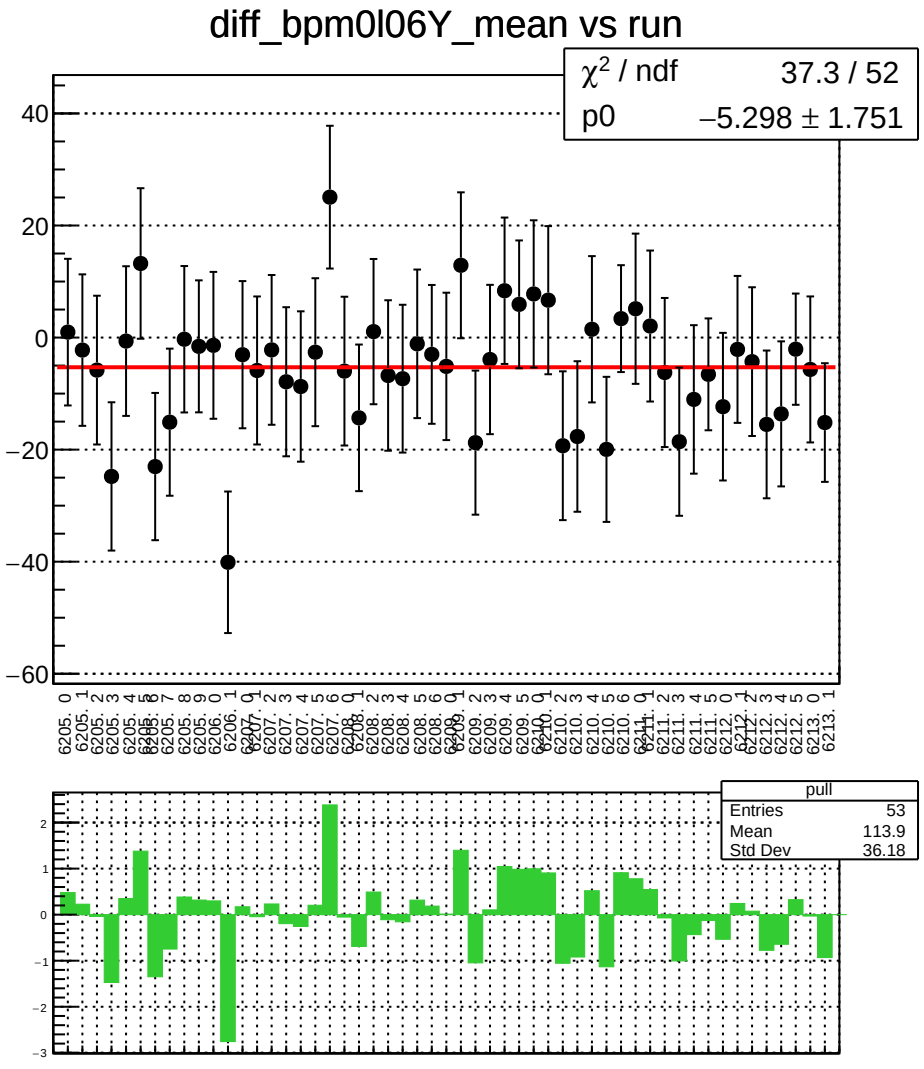

diff_bpm0l05Y_mean vs run
χ² / ndf 55.66 / 52
p0 −4.695 ± 3.206
pull
Entries 53
Mean 163.6
Std Dev 123.4

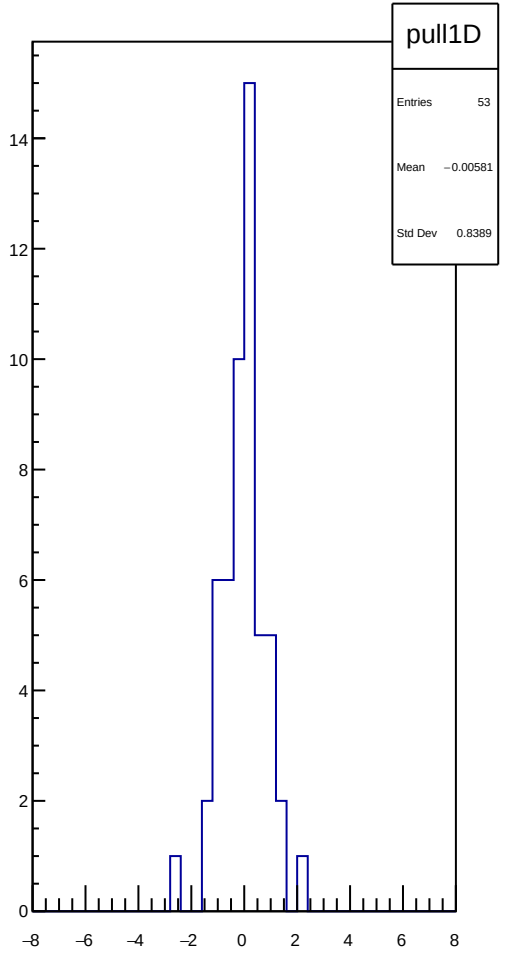

pull1D
Entries 53
Mean −0.01232
Std Dev 1.025

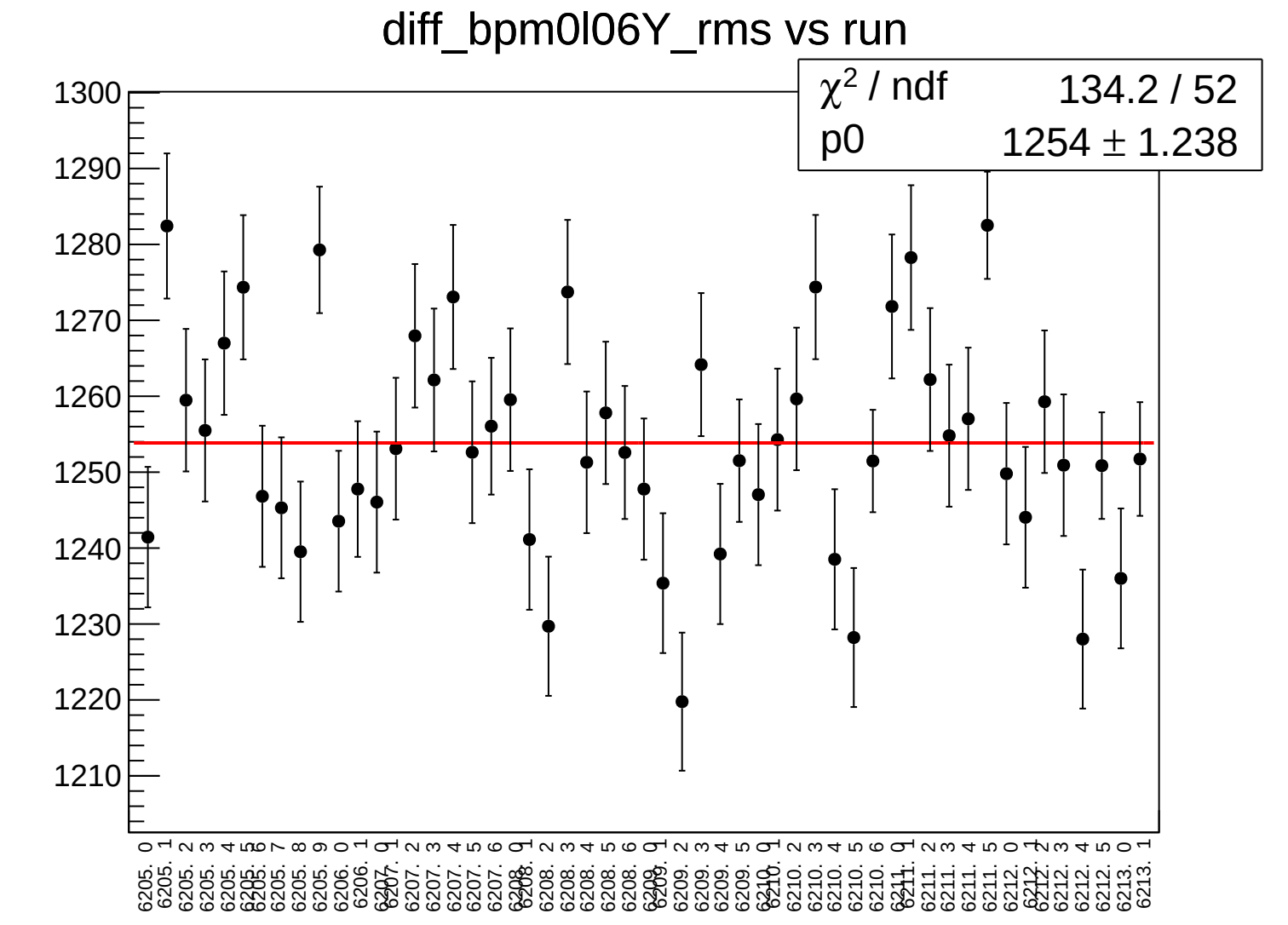

diff_bpm0l05Y_rms vs run
χ² / ndf 290.3 / 52
p0 2296 ± 2.267
2500
2450
2400
2350
2300
2250
2200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

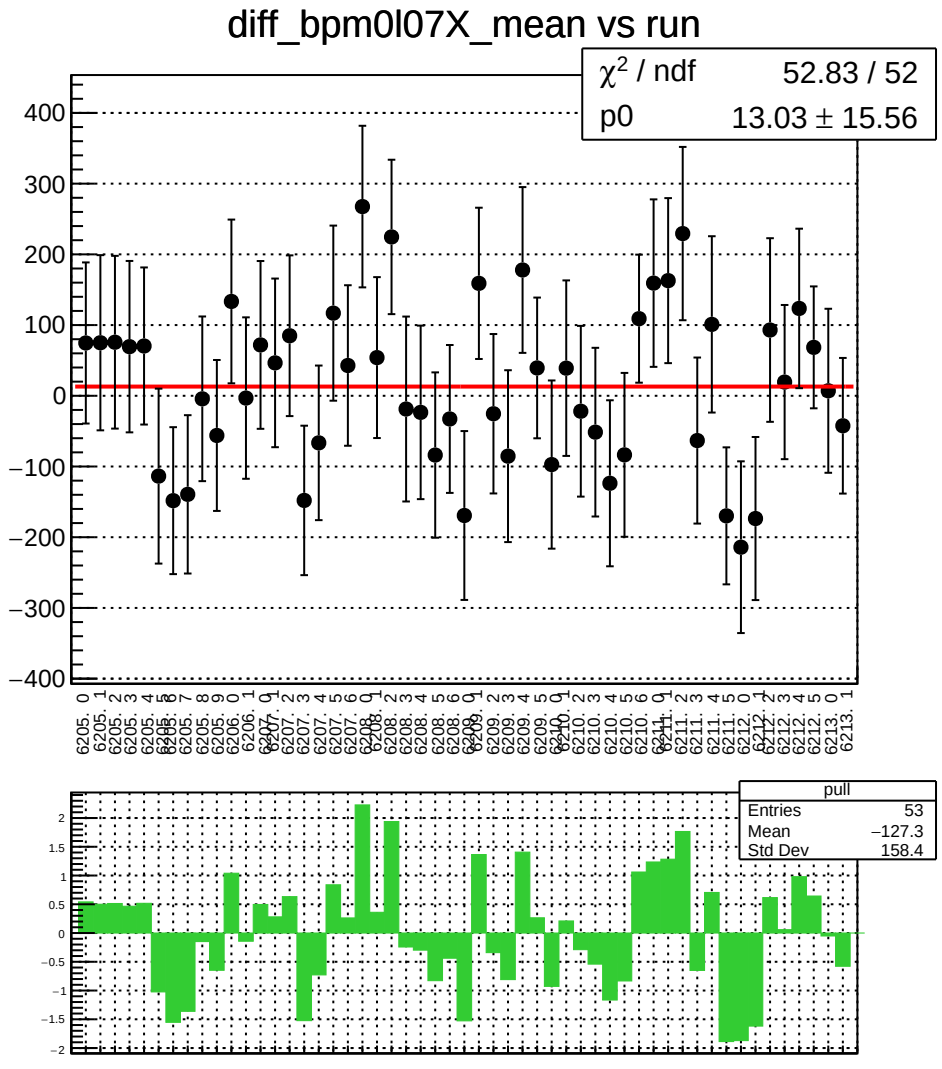

diff_bpm0l06X_mean vs run
χ² / ndf 53.59 / 52
p0 5.005 ± 10.09
200
100
0
−100
−200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 9
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 9
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1
pull
Entries 53
Mean −305.4
Std Dev 336.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 53
Mean 0.001699
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

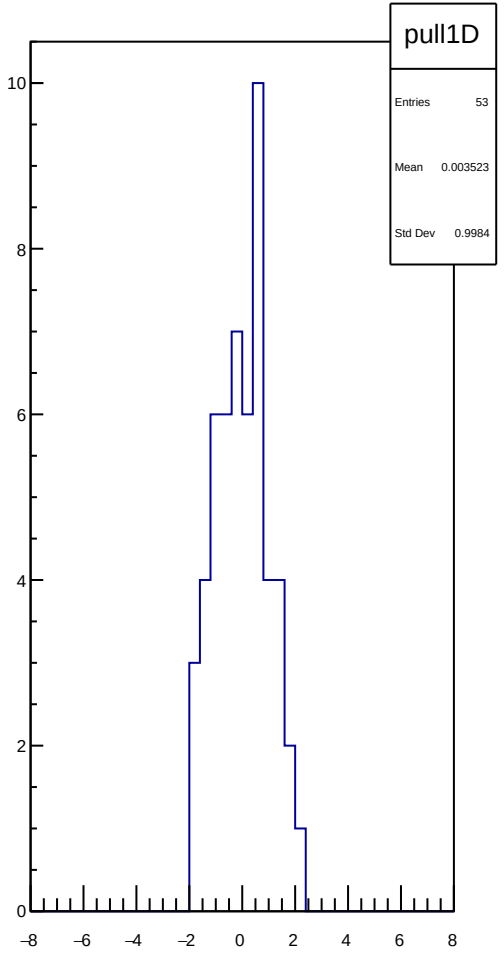

diff_bpm0l06X_rms vs run
χ² / ndf 2847 / 52
p0 7218 ± 7.135
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

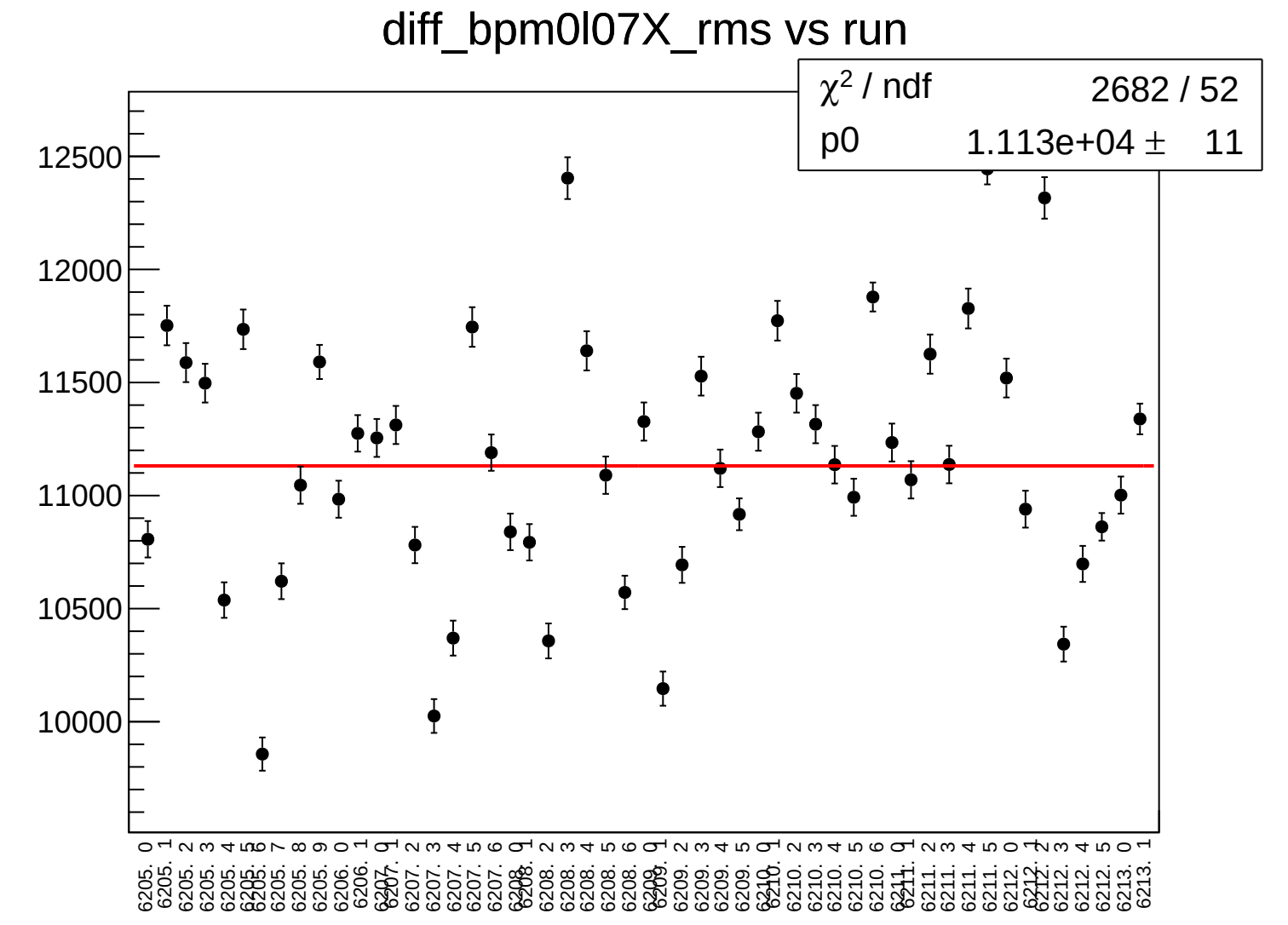

diff_bpm0l06Y_mean vs run
χ² / ndf 37.3 / 52
p0 −5.298 ± 1.751
pull
Entries 53
Mean 113.9
Std Dev 36.18


pull1D
Entries 53
Mean −0.00581
Std Dev 0.8389


diff_bpm0l06Y_rms vs run
χ² / ndf 134.2 / 52
p0 1254 ± 1.238
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0l07X_mean vs run
χ² / ndf 52.83 / 52
p0 13.03 ± 15.56
pull
Entries 53
Mean −127.3
Std Dev 158.4


pull1D
Entries 53
Mean 0.003523
Std Dev 0.9984


diff_bpm0l07X_rms vs run
χ² / ndf 2682 / 52
p0 1.113e+04 ± 11
12500
12000
11500
11000
10500
10000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
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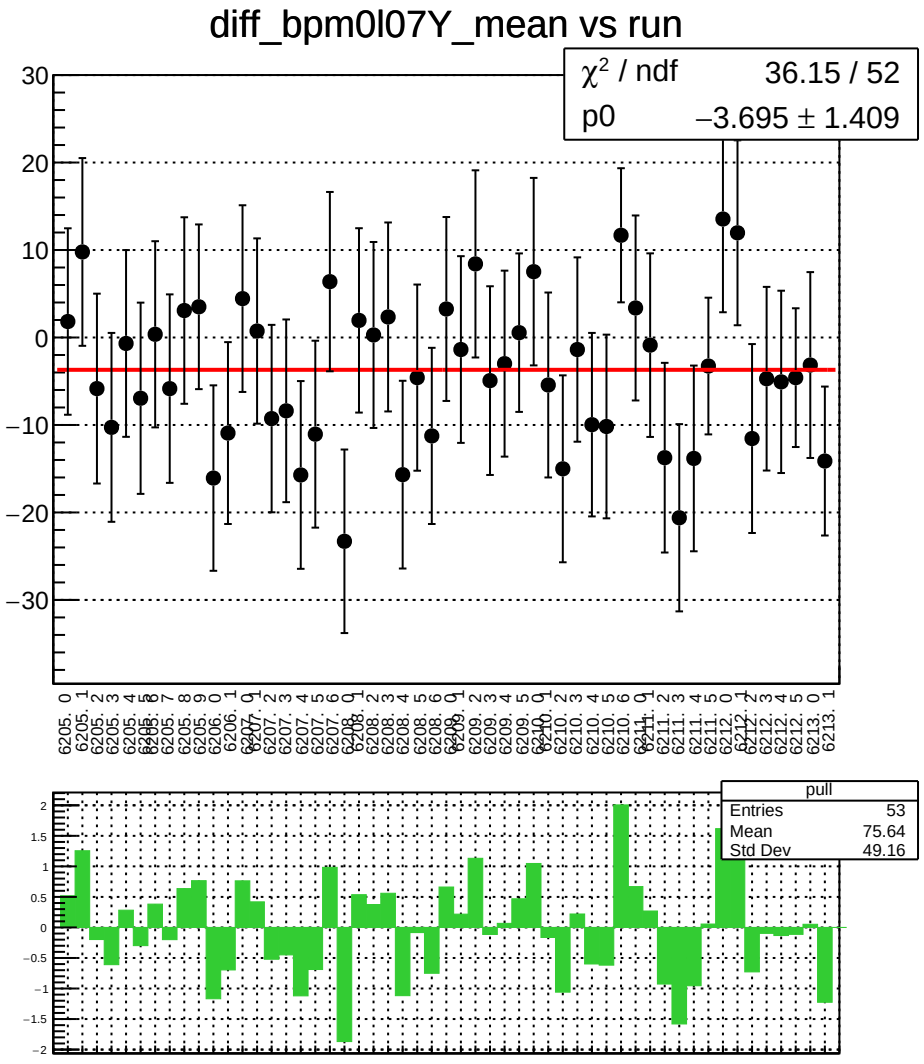
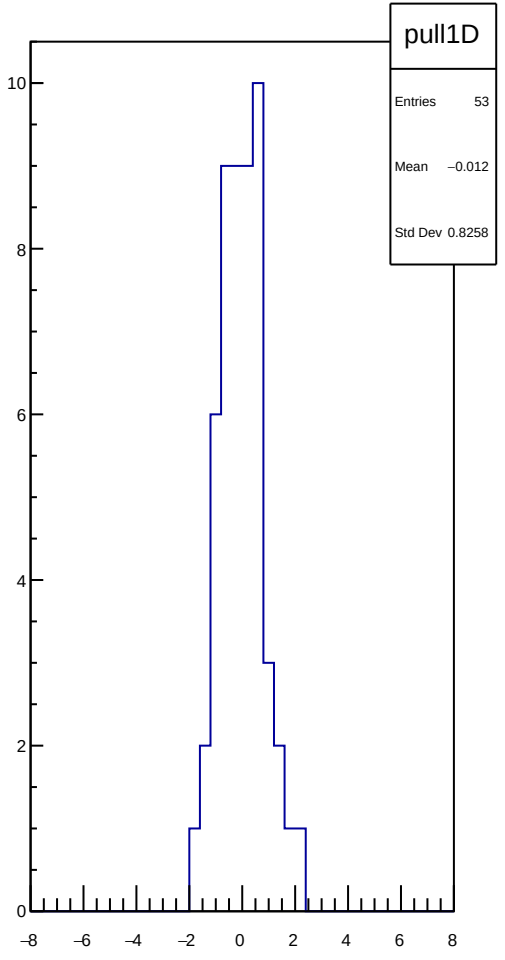
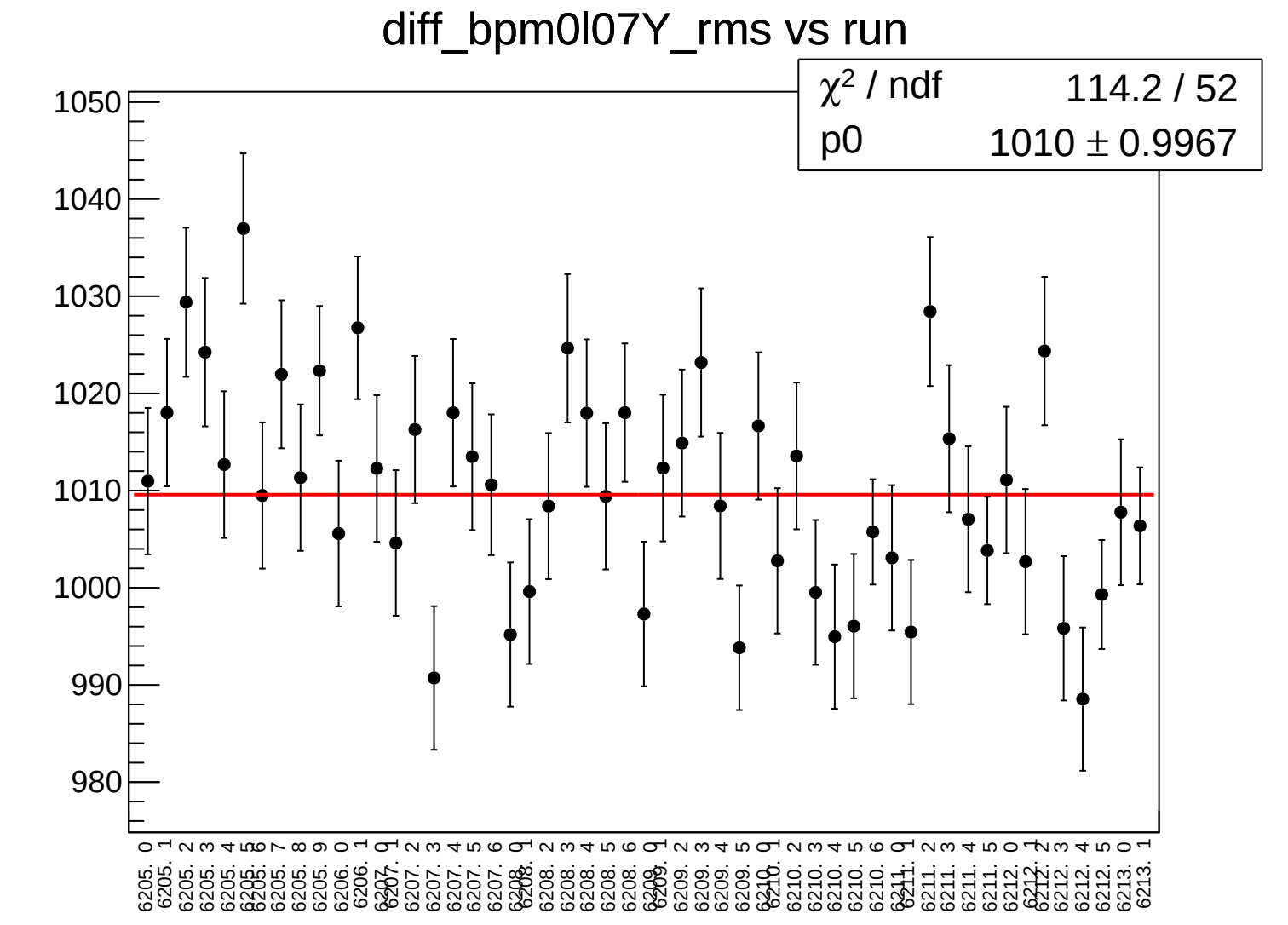
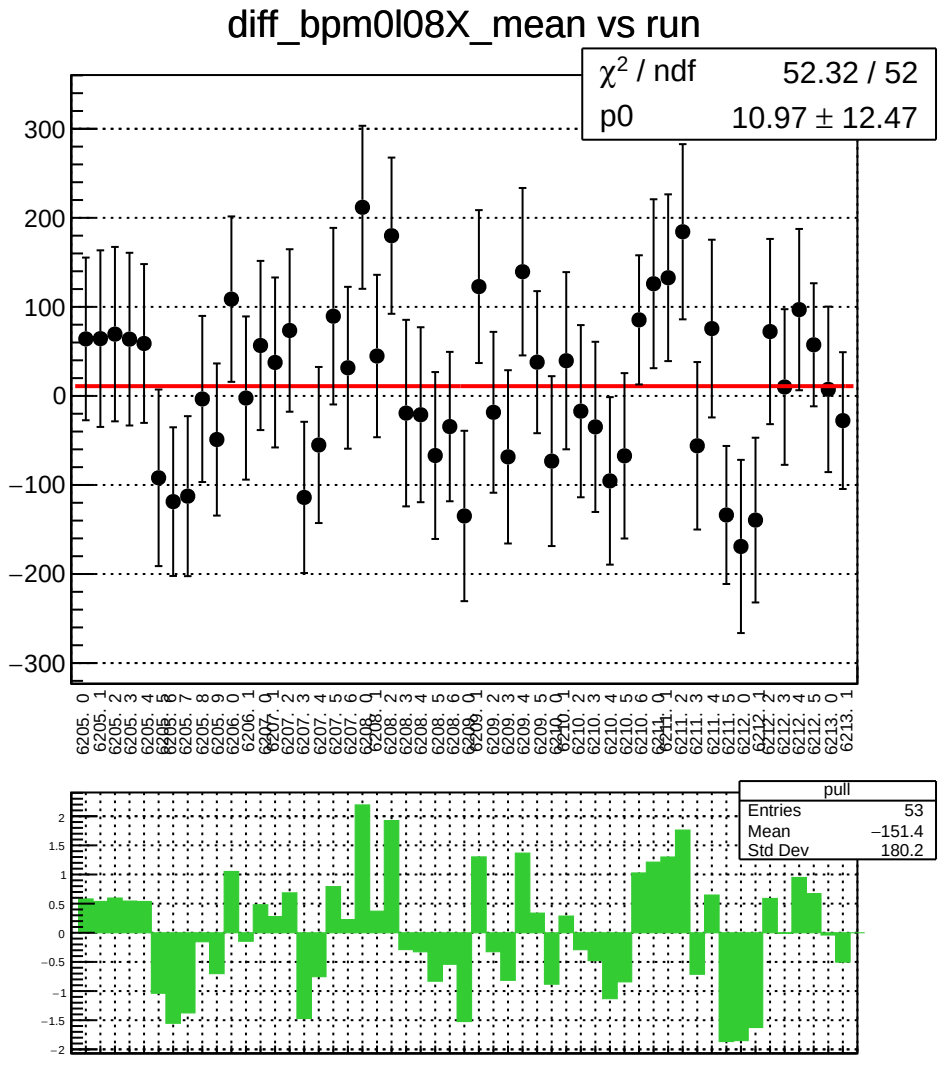
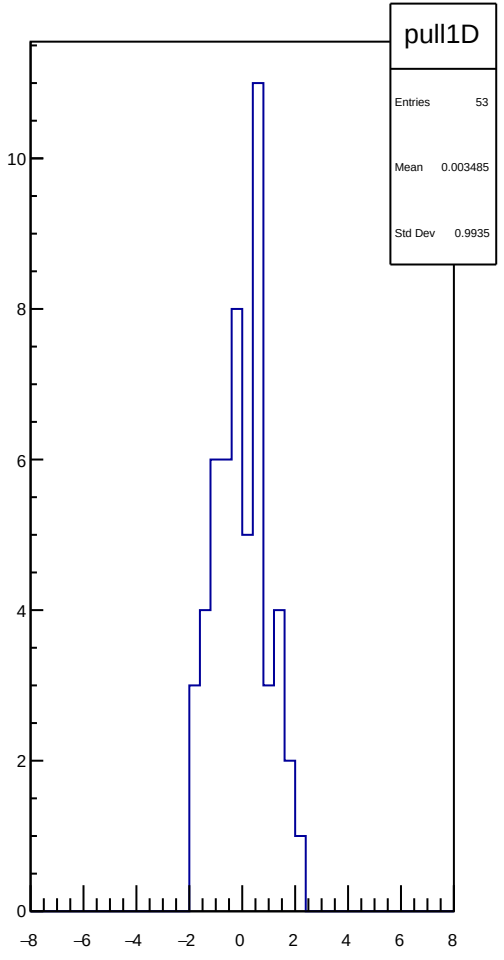
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

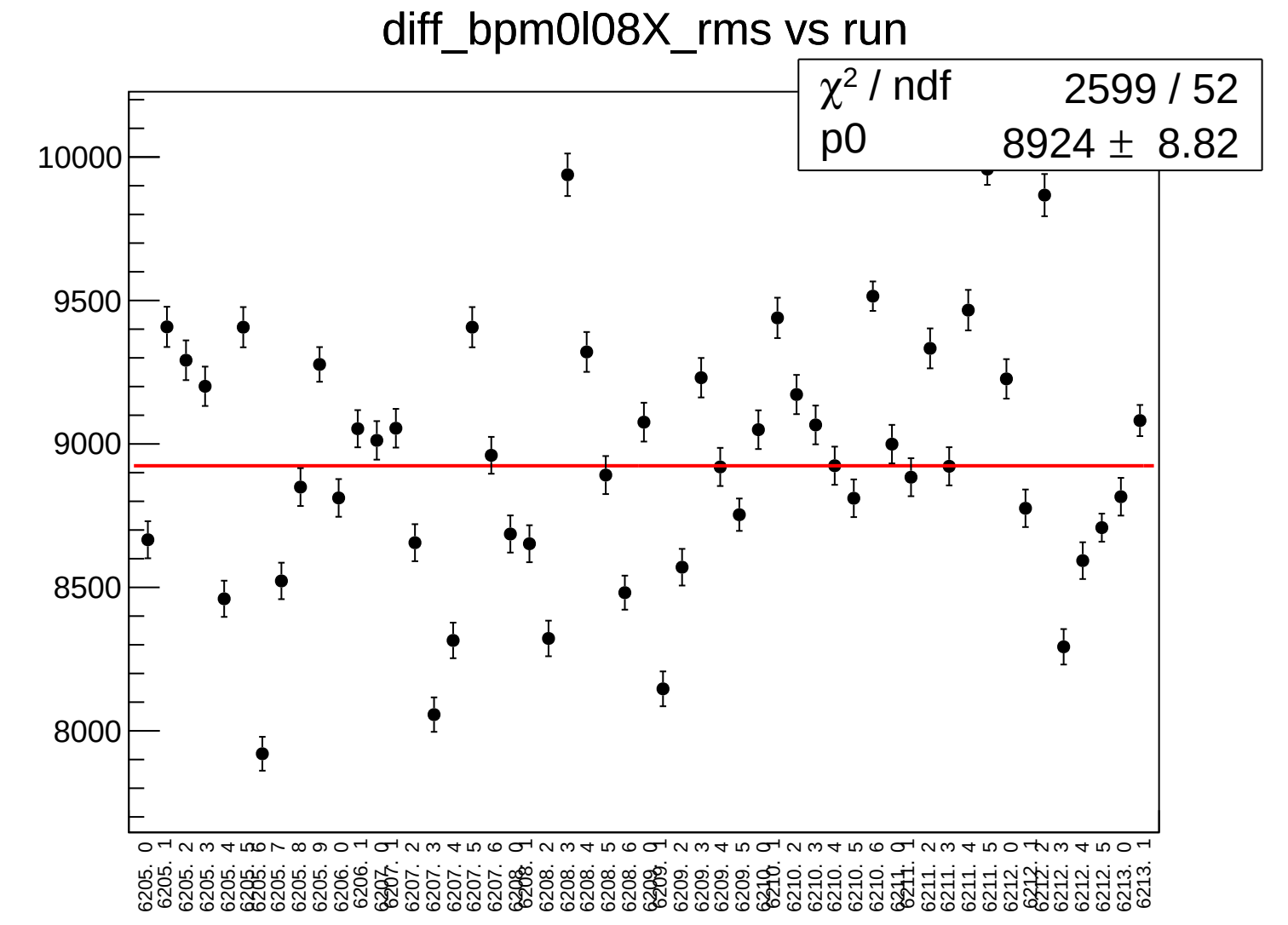

diff_bpm0l07Y_mean vs run
χ² / ndf 36.15 / 52
p0 −3.695 ± 1.409
pull
Entries 53
Mean 75.64
Std Dev 49.16

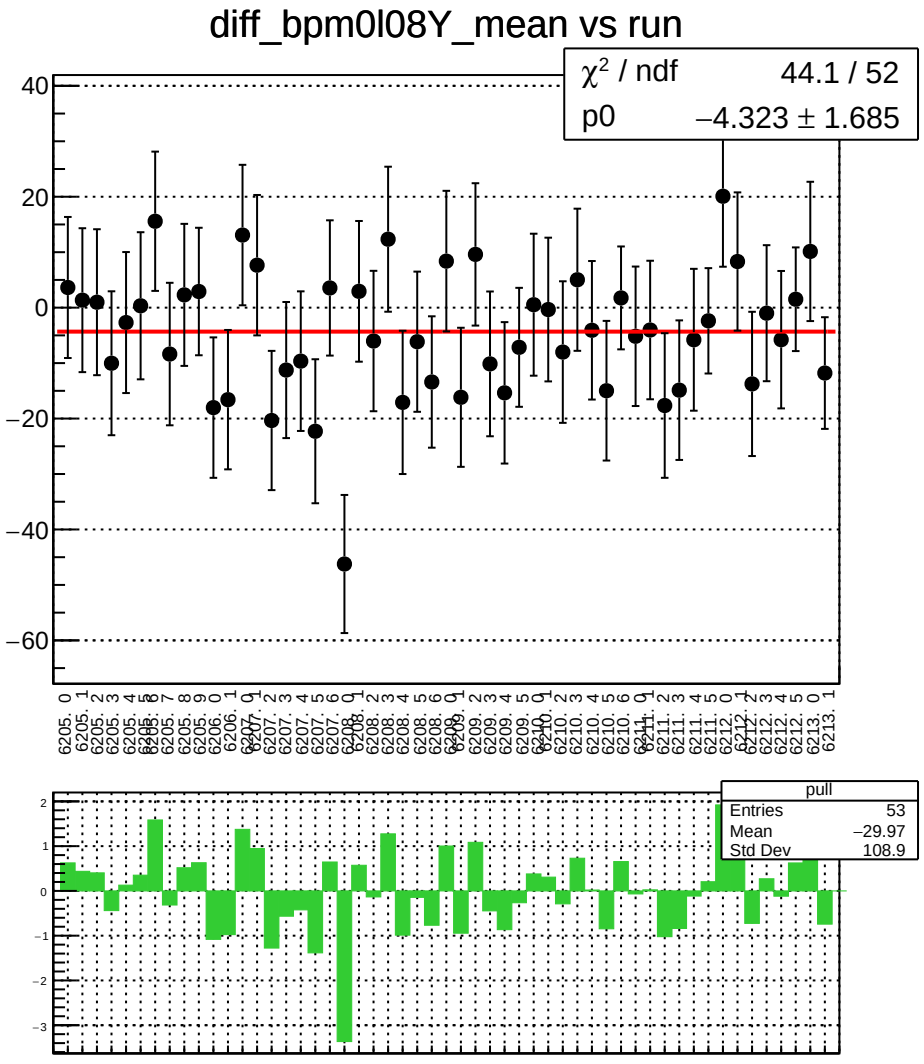

pull1D
Entries 53
Mean −0.012
Std Dev 0.8258

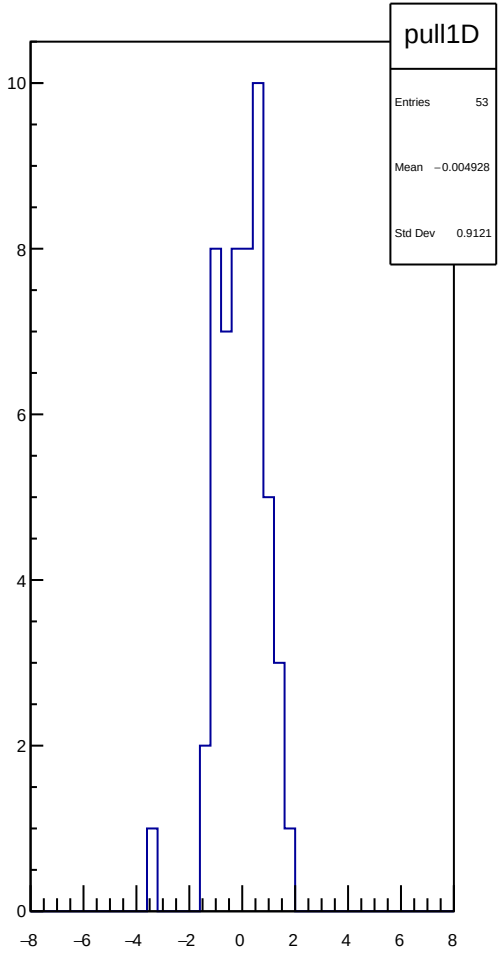

diff_bpm0l07Y_rms vs run
χ² / ndf 114.2 / 52
p0 1010 ± 0.9967
1050
1040
1030
1020
1010
1000
990
980
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

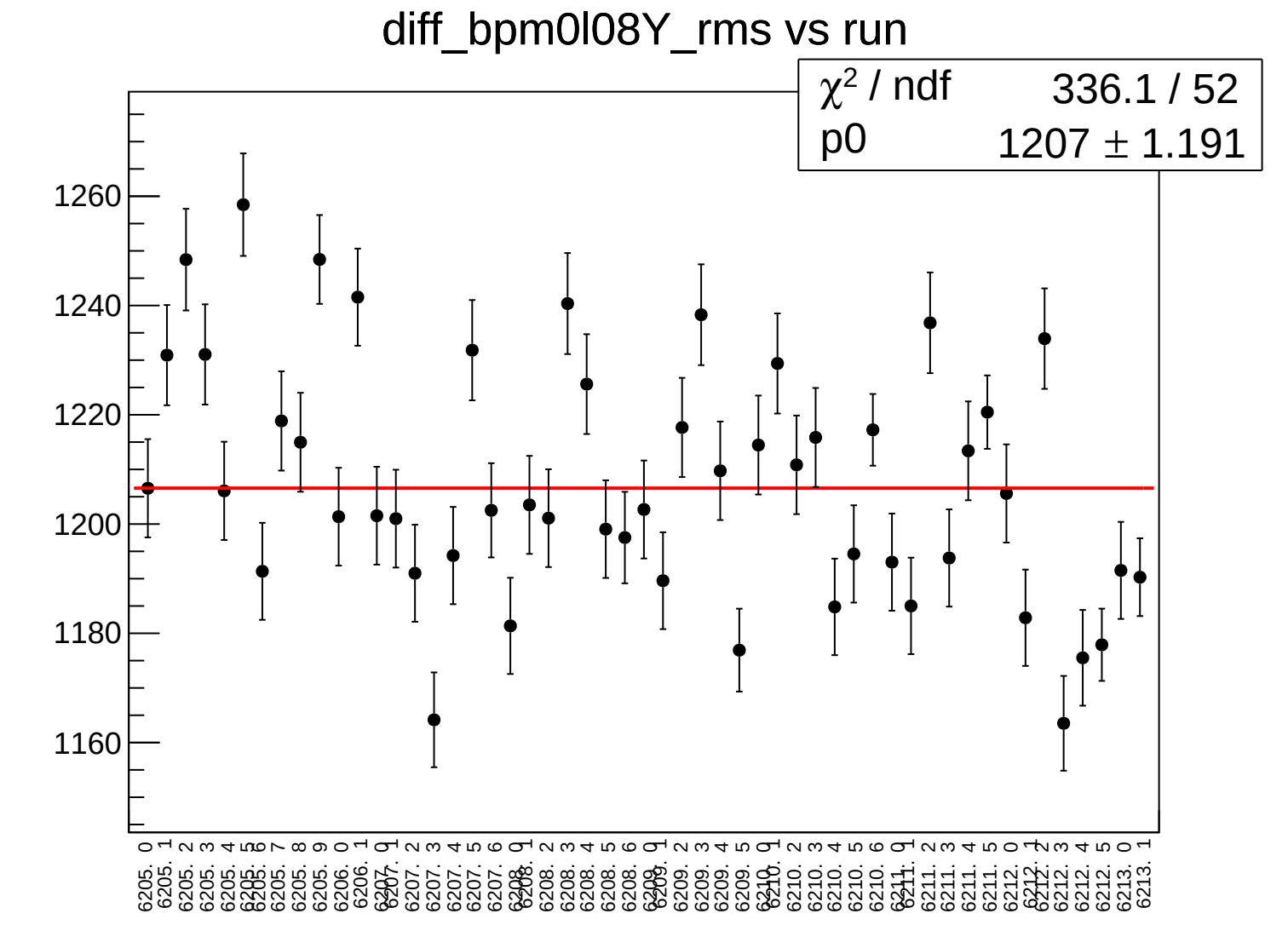

diff_bpm0l08X_mean vs run
χ² / ndf 52.32 / 52
p0 10.97 ± 12.47
pull
Entries 53
Mean −151.4
Std Dev 180.2

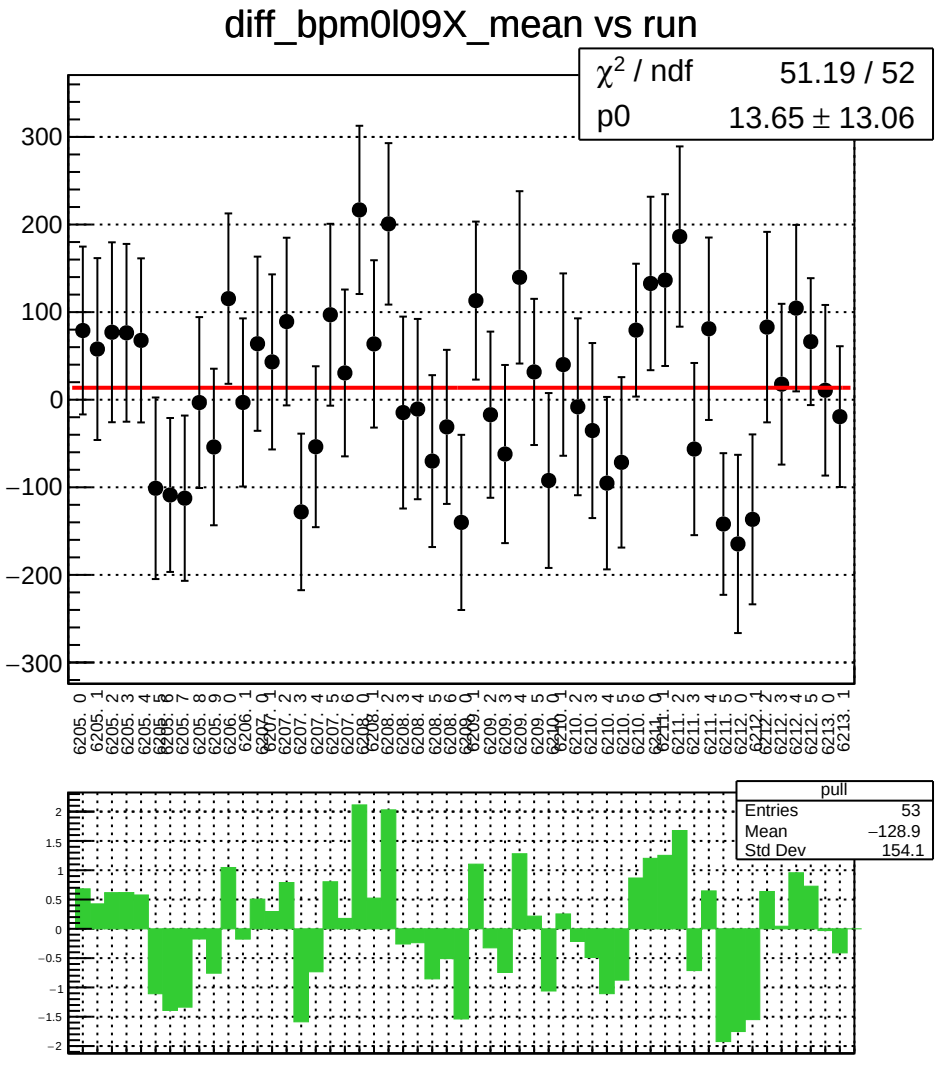

pull1D
Entries 53
Mean 0.003485
Std Dev 0.9935

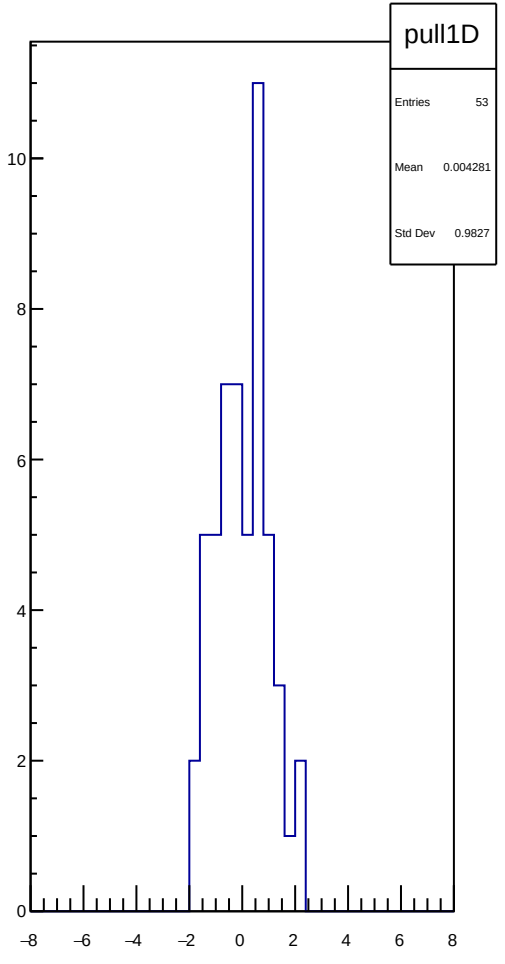

diff_bpm0l08X_rms vs run
χ² / ndf 2599 / 52
p0 8924 ± 8.82
10000
9500
9000
8500
8000
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

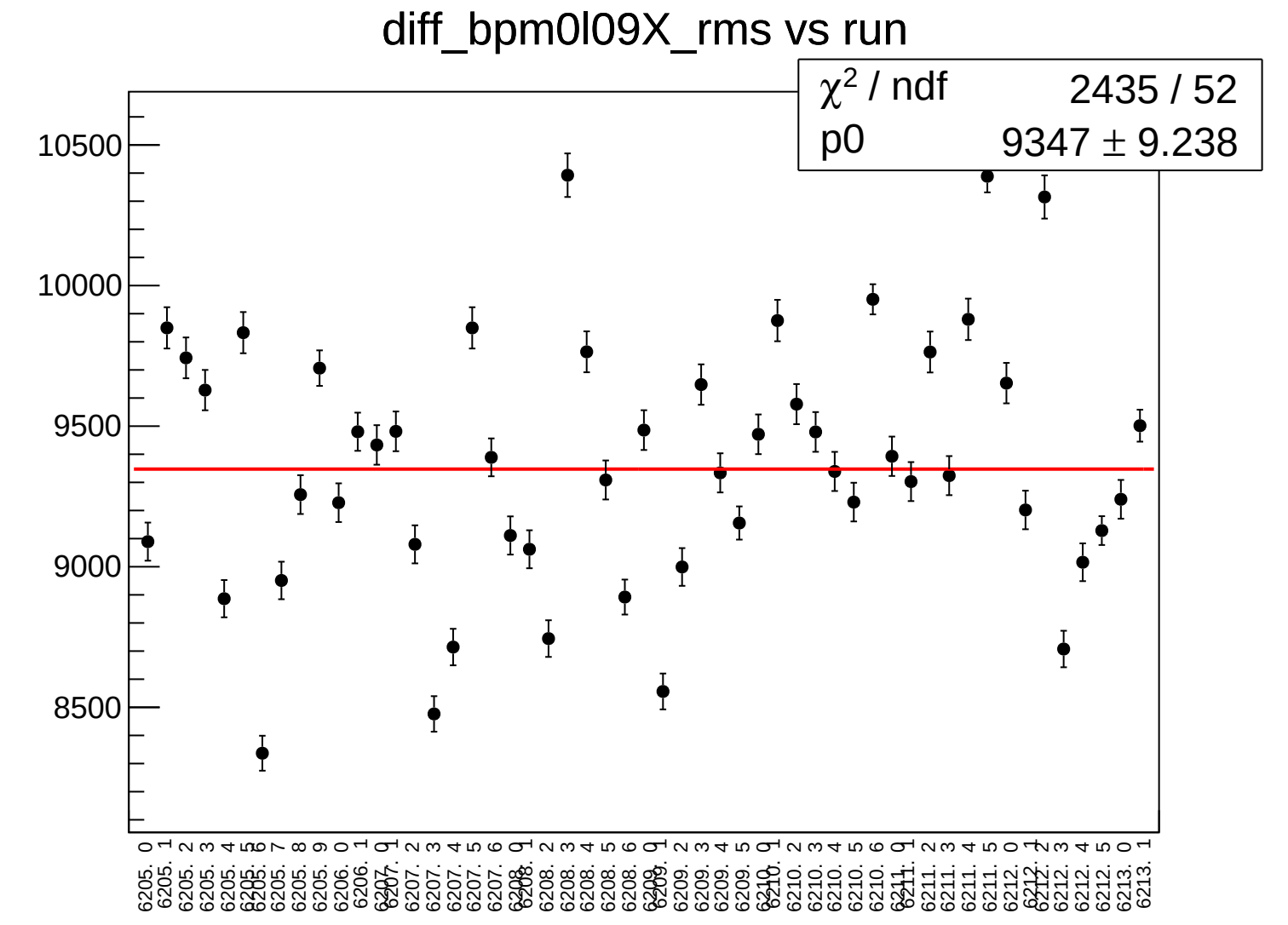

diff_bpm0l08Y_mean vs run
χ² / ndf 44.1 / 52
p0 −4.323 ± 1.685
pull
Entries 53
Mean −29.97
Std Dev 108.9


pull1D
Entries 53
Mean −0.004928
Std Dev 0.9121


diff_bpm0l08Y_rms vs run
χ² / ndf 336.1 / 52
p0 1207 ± 1.191
1260
1240
1220
1200
1180
1160
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0l09X_mean vs run
χ^2 / ndf 51.19 / 52
p0 13.65 ± 13.06
pull
Entries 53
Mean −128.9
Std Dev 154.1


pull1D
Entries 53
Mean 0.004281
Std Dev 0.9827


diff_bpm0l09X_rms vs run
χ² / ndf 2435 / 52
p0 9347 ± 9.238
10500
10000
9500
9000
8500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
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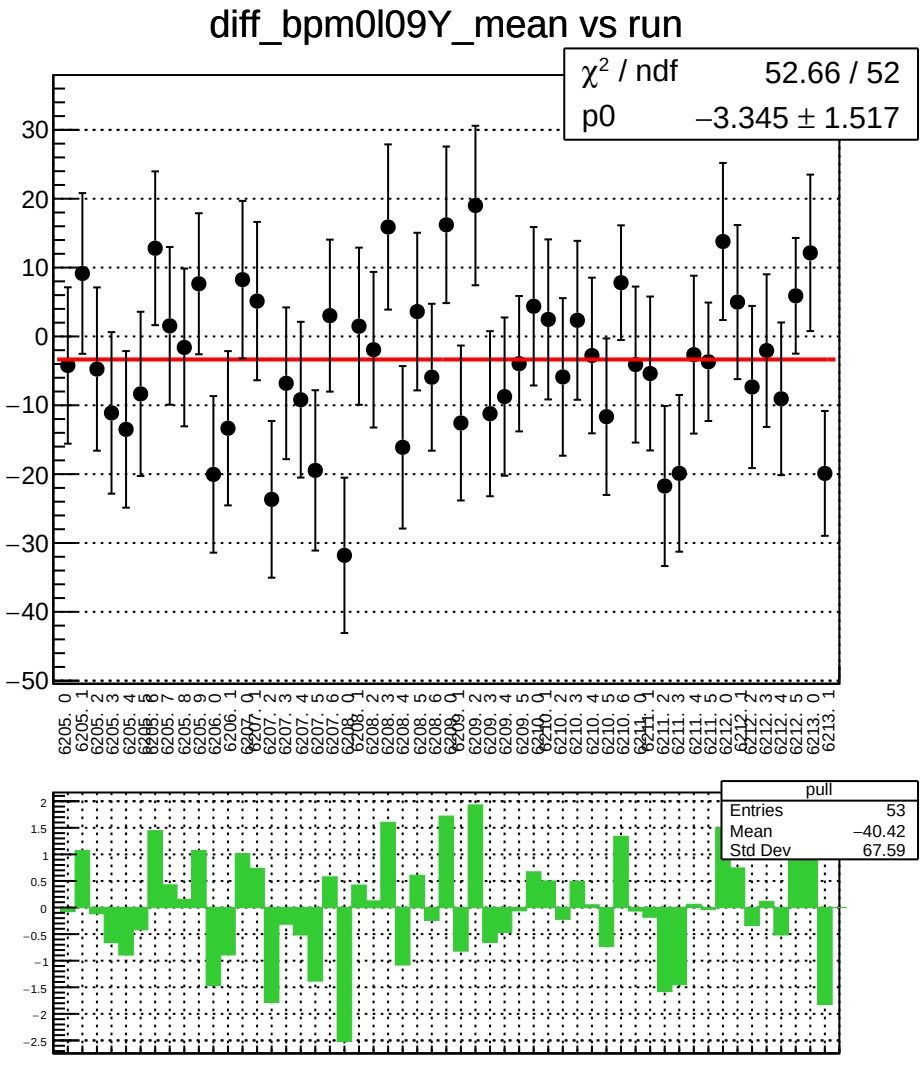
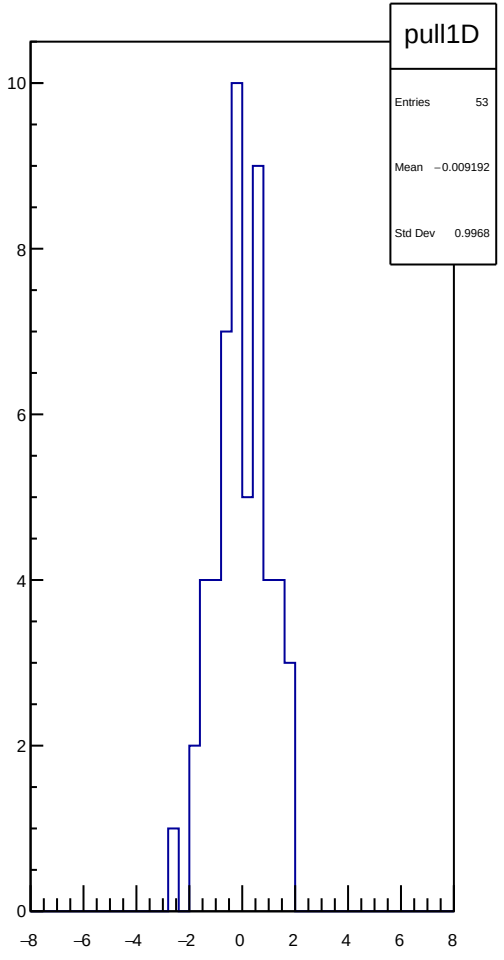
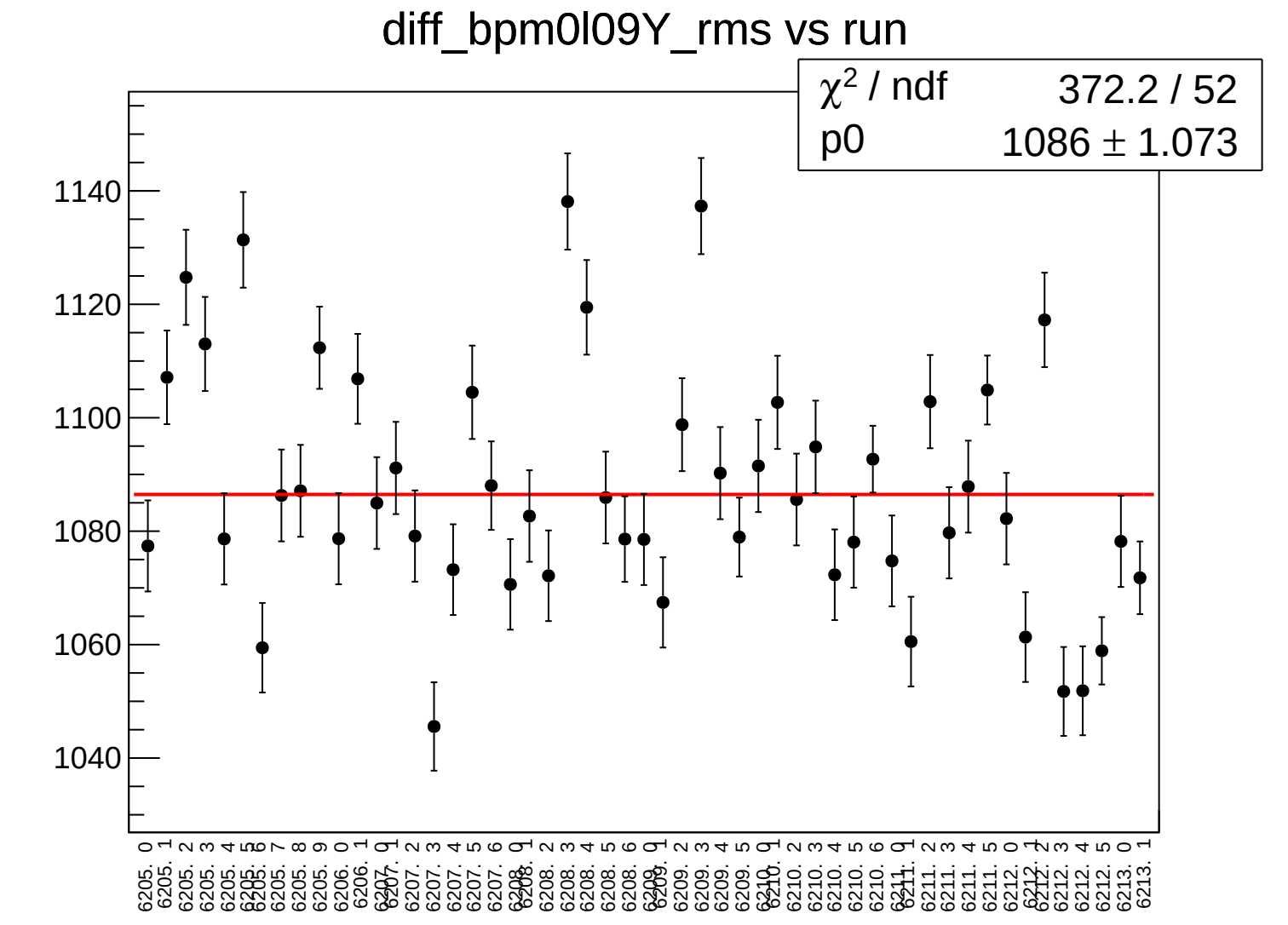
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0l09Y_mean vs run
χ² / ndf 52.66 / 52
p0 −3.345 ± 1.517
pull
Entries 53
Mean −40.42
Std Dev 67.59


pull1D
Entries 53
Mean −0.009192
Std Dev 0.9968


diff_bpm0l09Y_rms vs run
χ² / ndf 372.2 / 52
p0 1086 ± 1.073
1140
1120
1100
1080
1060
1040
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
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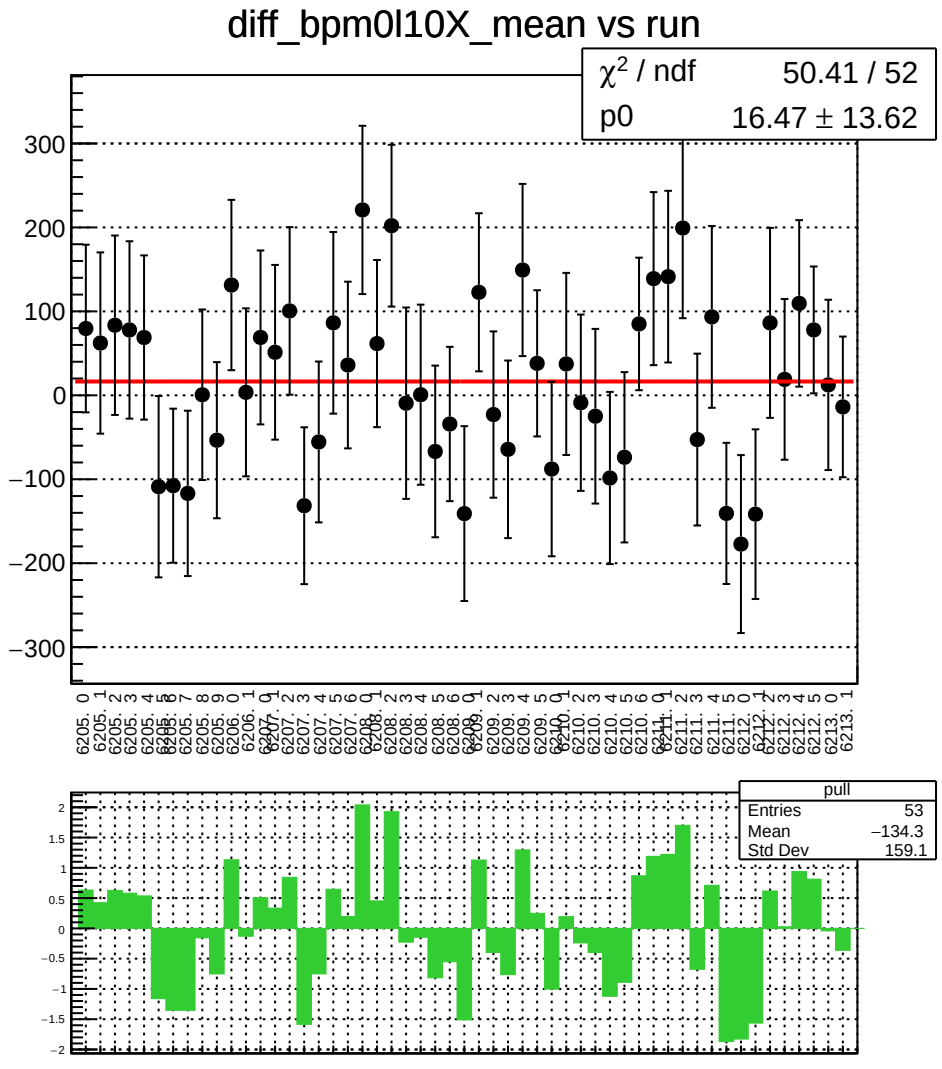
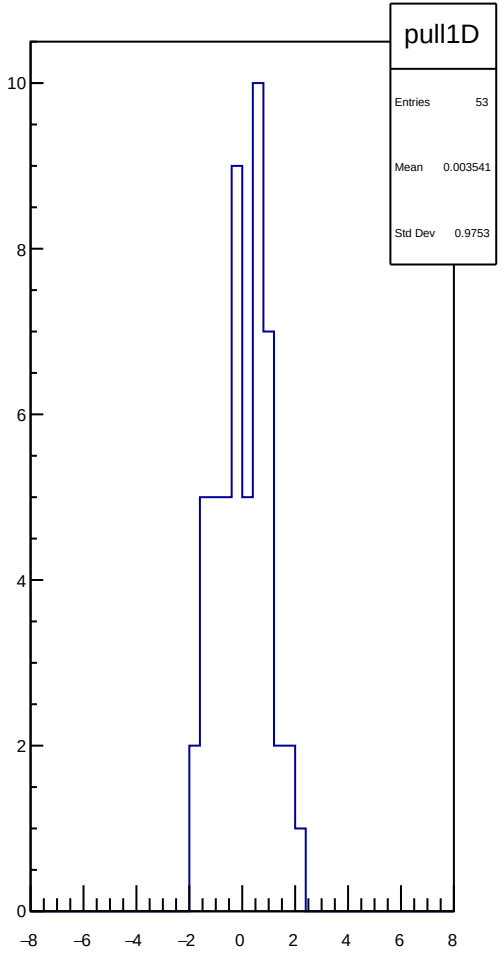
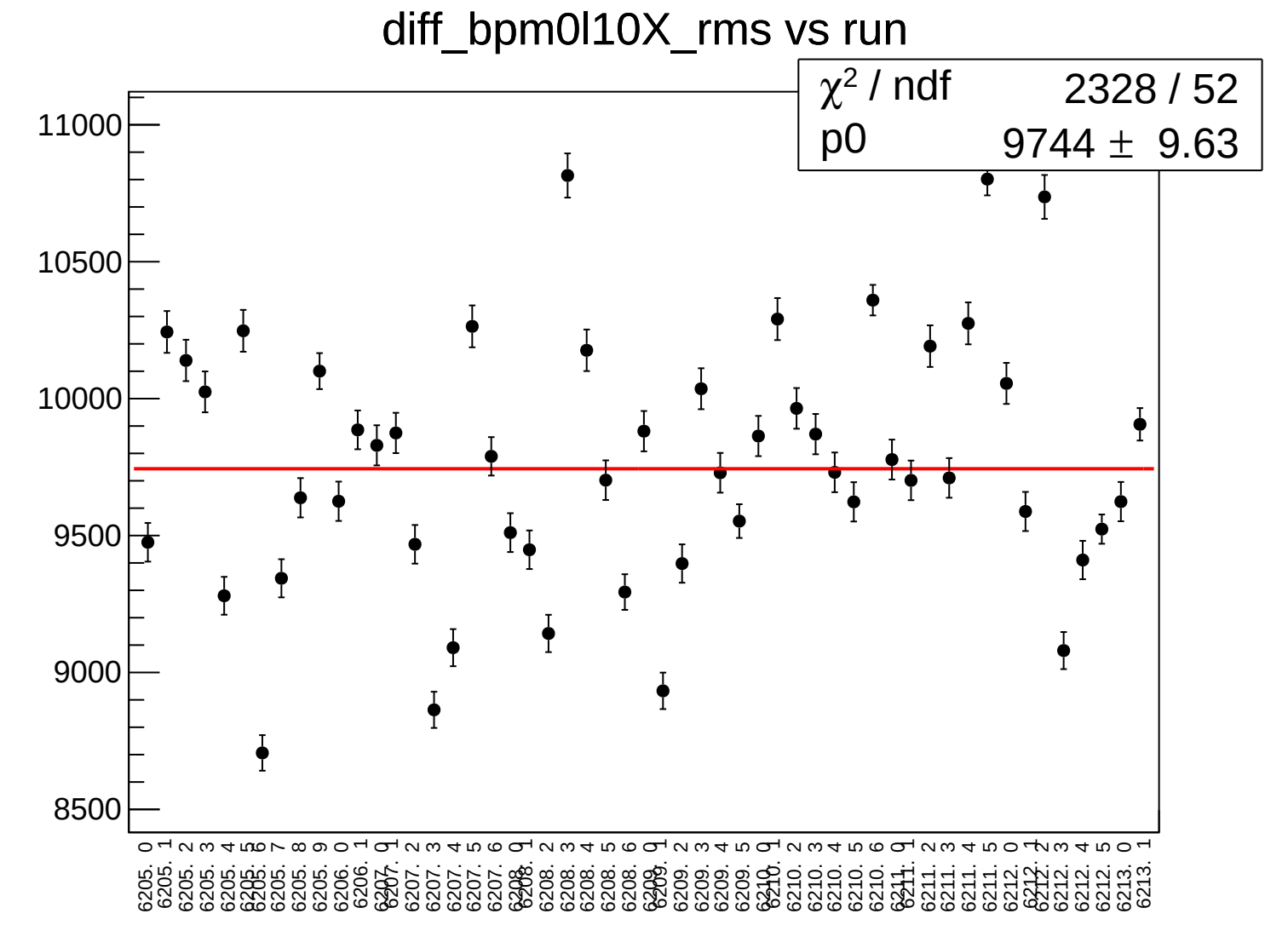
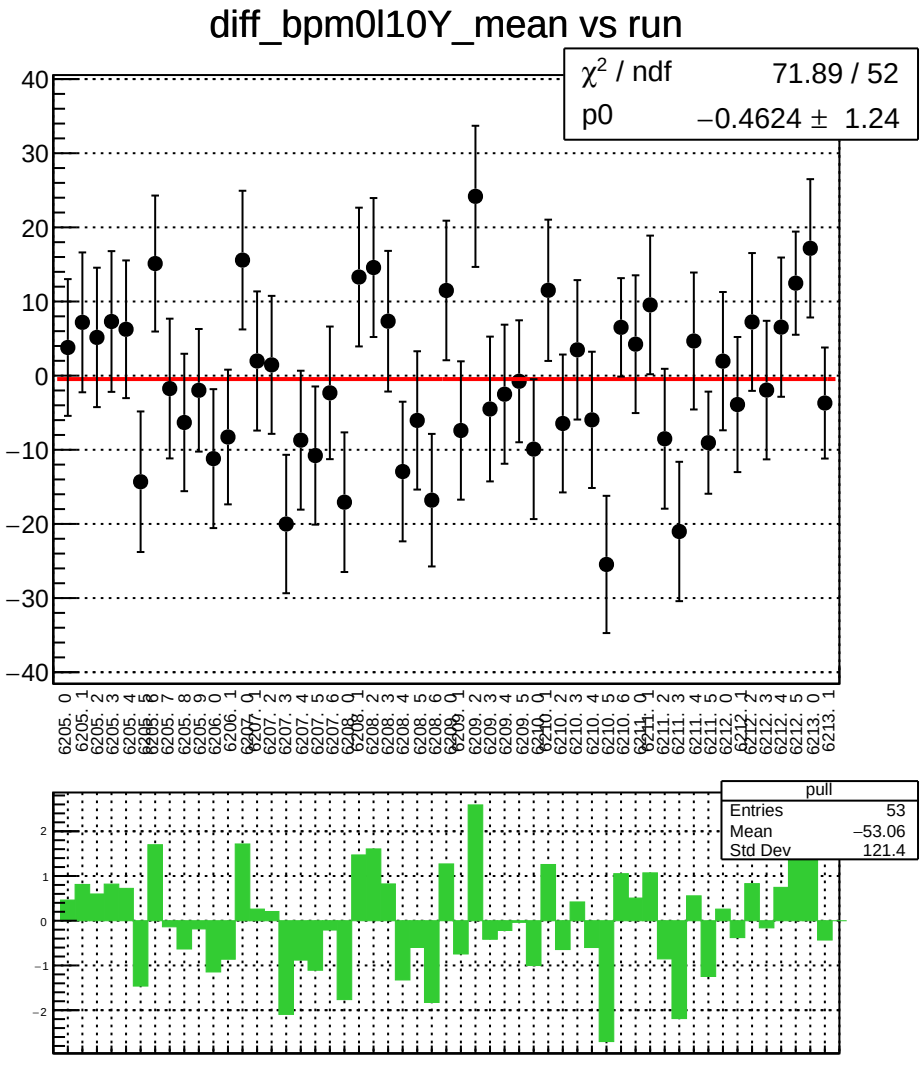
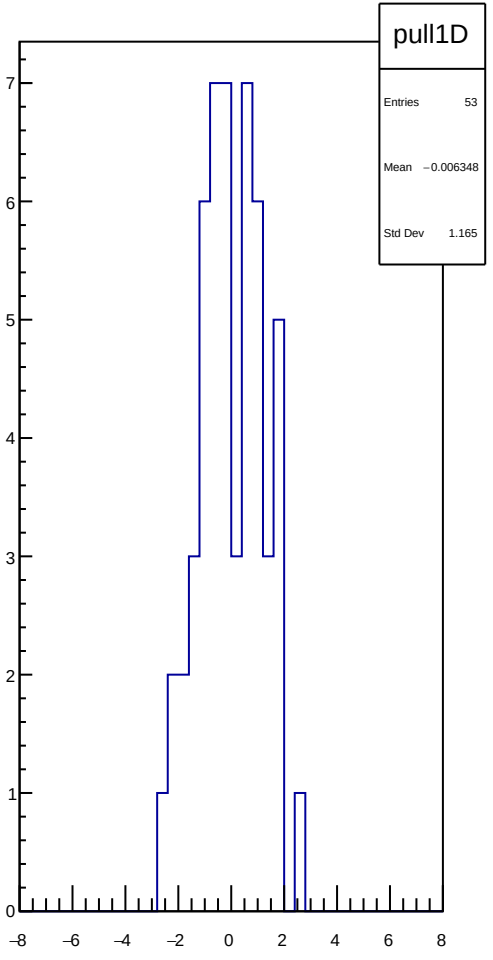
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

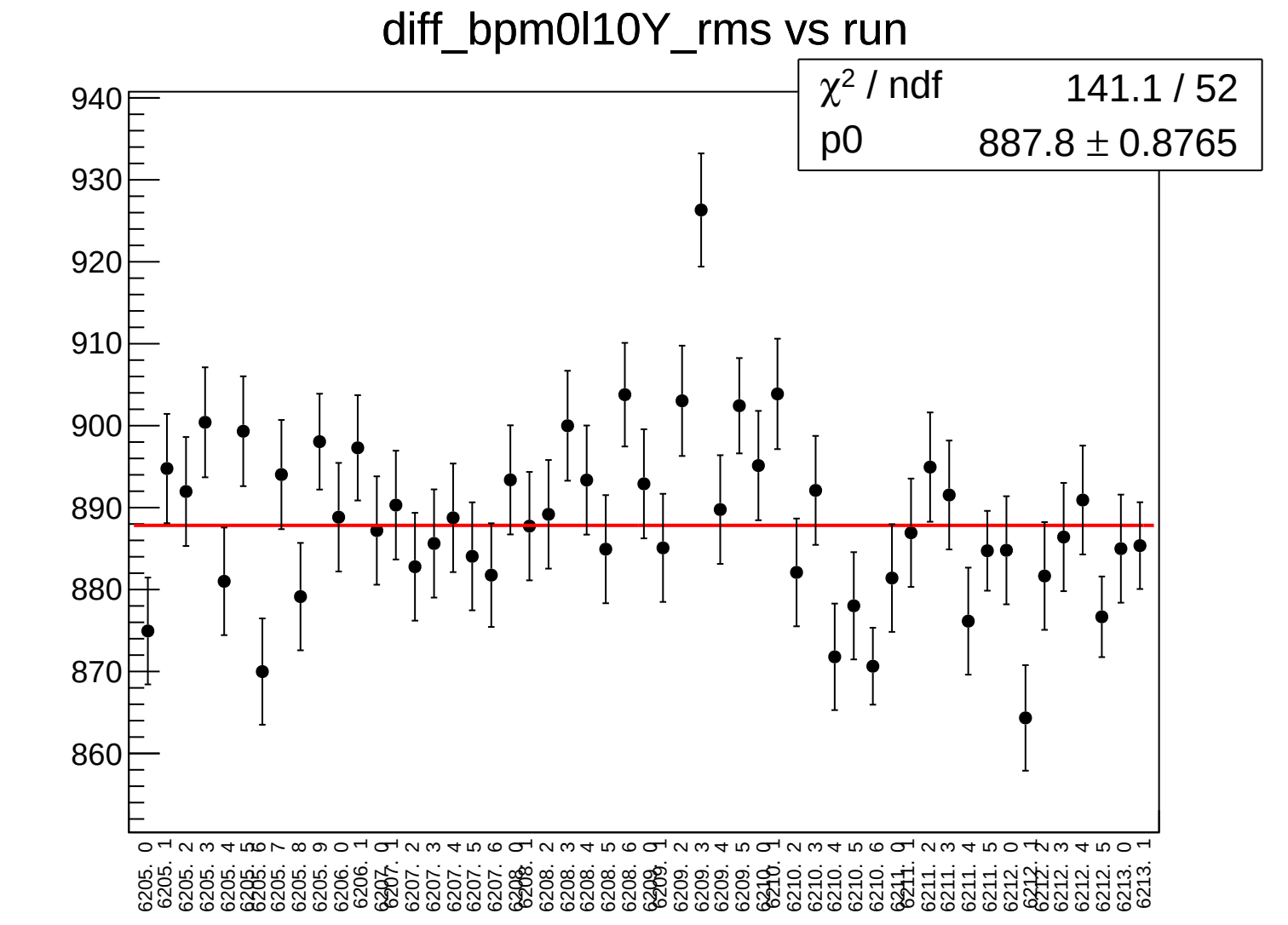

diff_bpm0l10X_mean vs run
χ² / ndf 50.41 / 52
p0 16.47 ± 13.62
pull
Entries 53
Mean −134.3
Std Dev 159.1

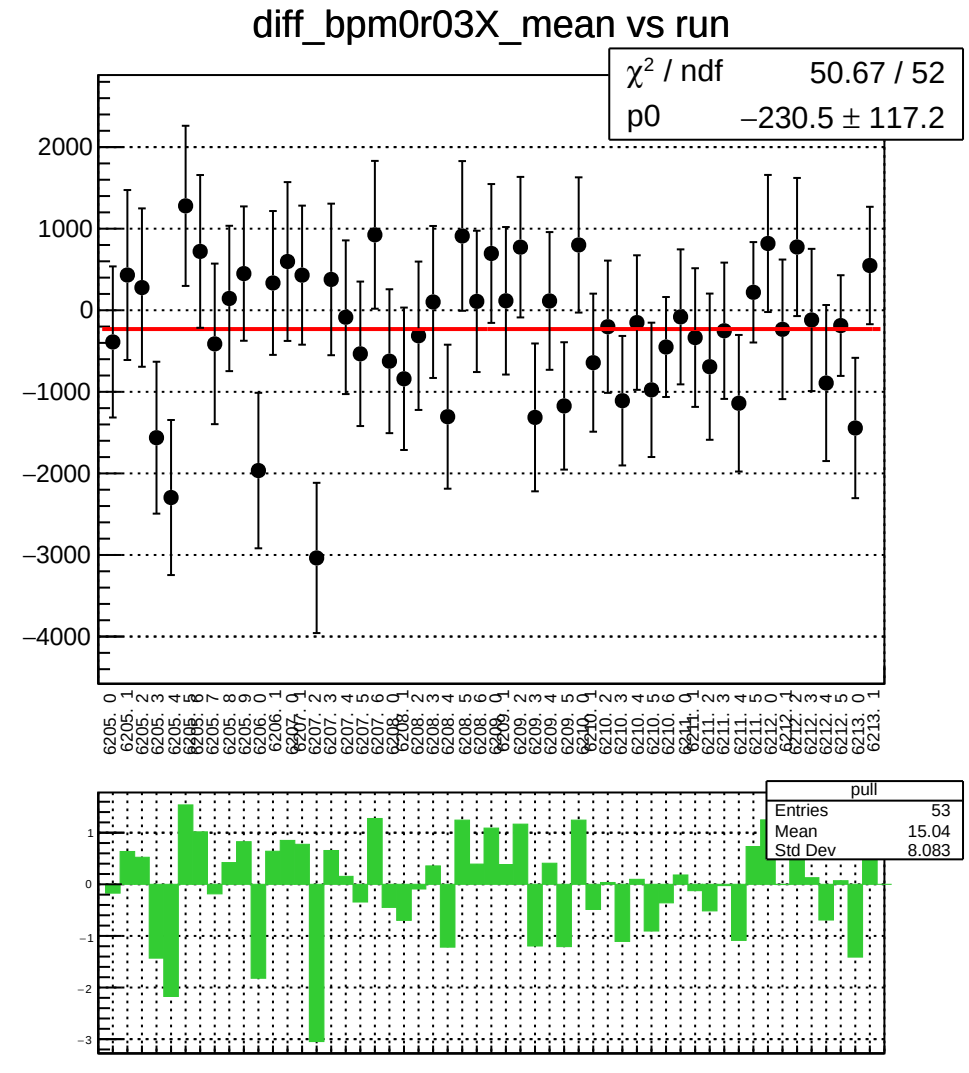

pull1D
Entries 53
Mean 0.003541
Std Dev 0.9753

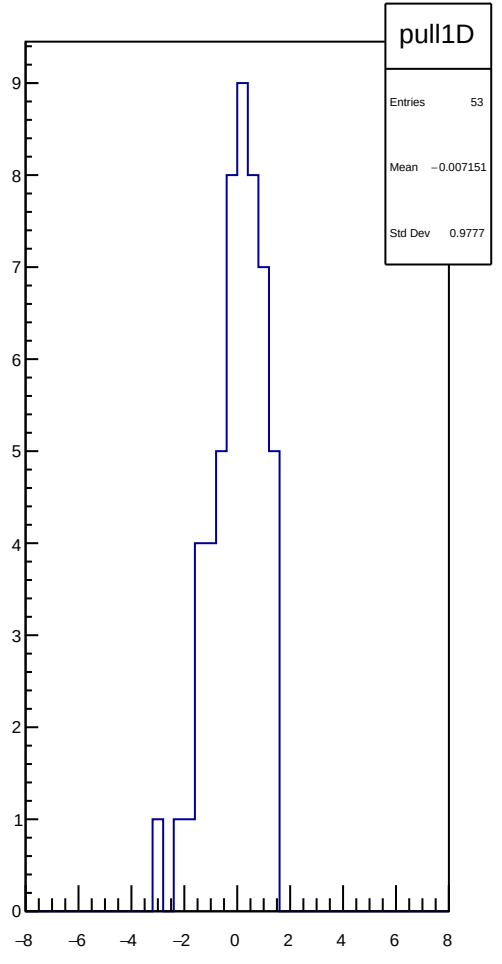

diff_bpm0l10X_rms vs run
χ² / ndf 2328 / 52
p0 9744 ± 9.63
11000
10500
10000
9500
9000
8500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

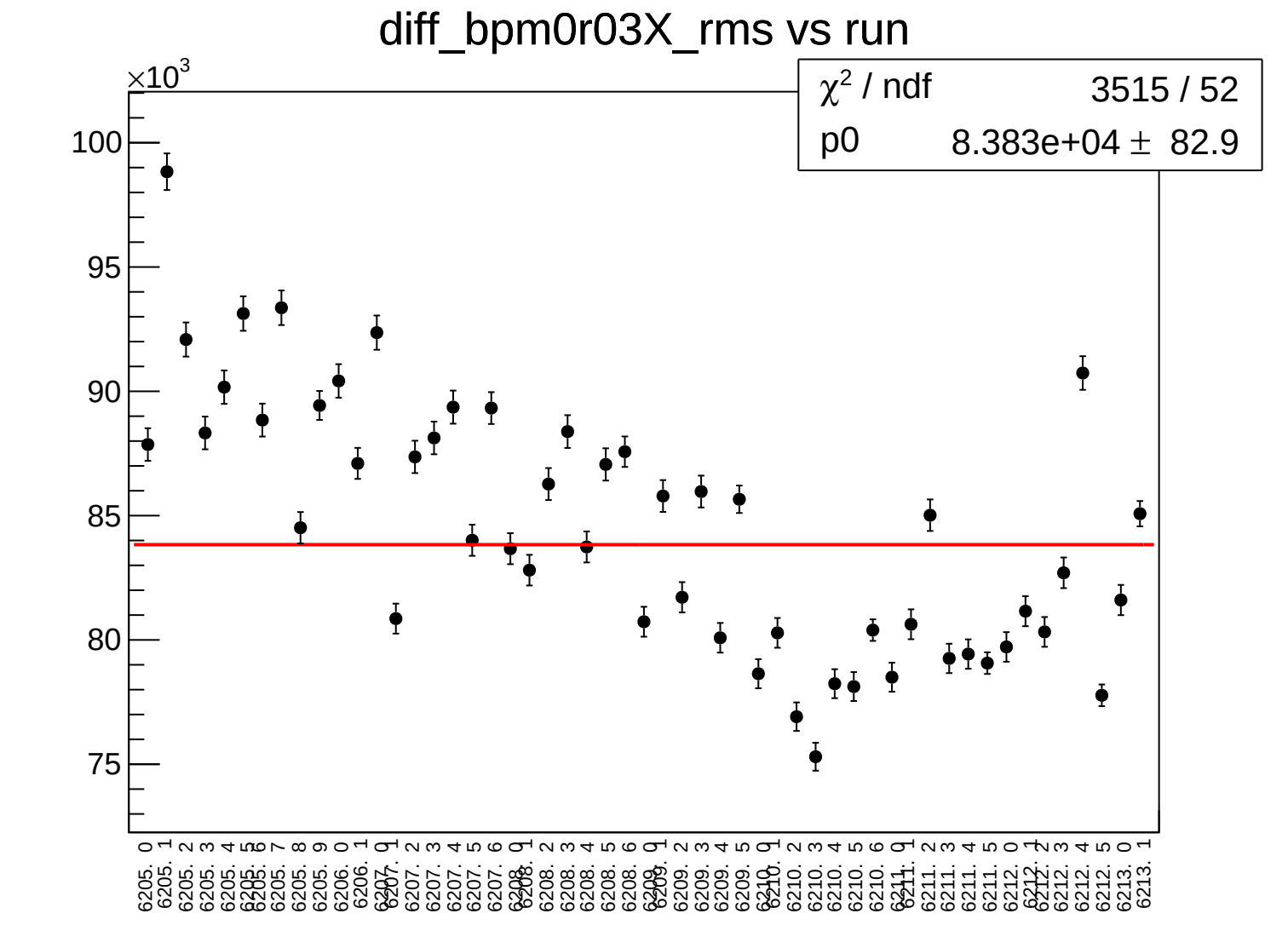

diff_bpm0l10Y_mean vs run
χ² / ndf 71.89 / 52
p0 −0.4624 ± 1.24
pull
Entries 53
Mean −53.06
Std Dev 121.4

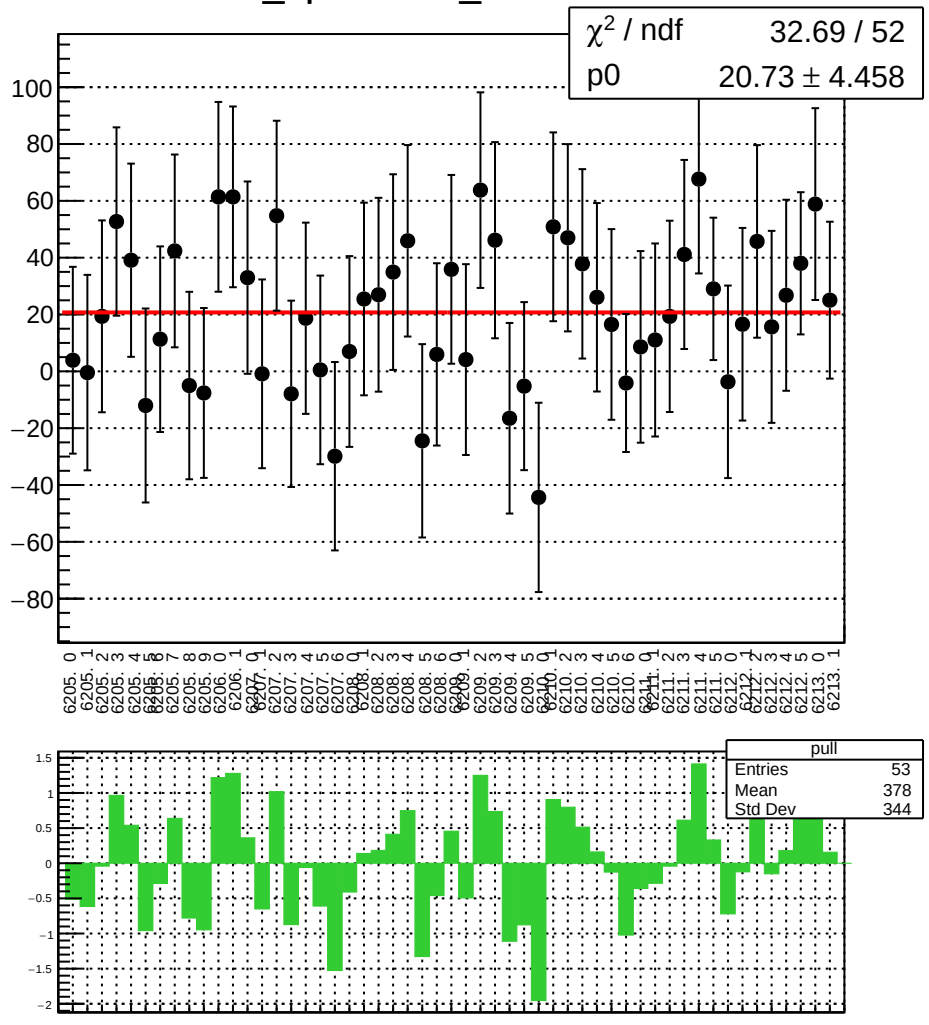

pull1D
Entries 53
Mean −0.006348
Std Dev 1.165

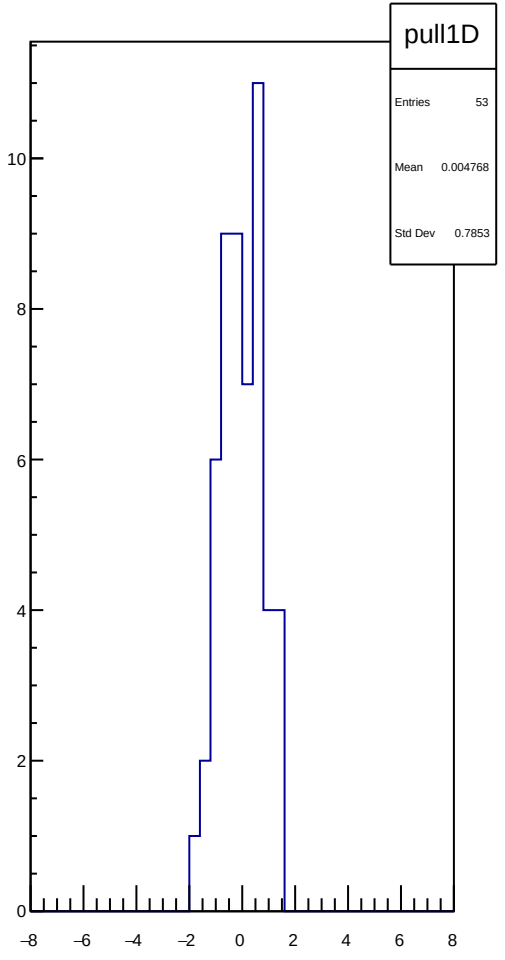

diff_bpm0l10Y_rms vs run
χ² / ndf 141.1 / 52
p0 887.8 ± 0.8765
940
930
920
910
900
890
880
870
860
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

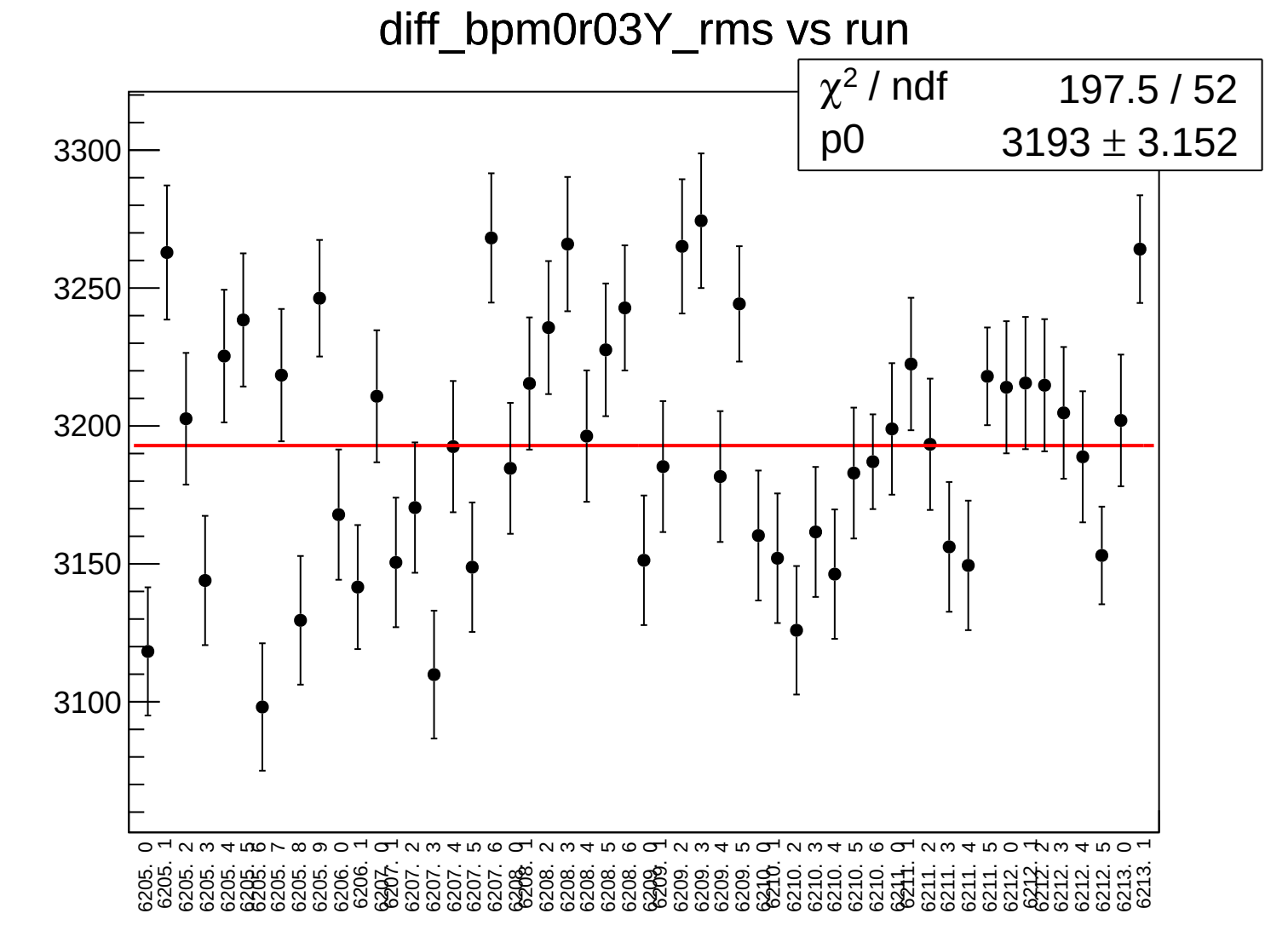

diff_bpm0r03X_mean vs run
χ² / ndf 50.67 / 52
p0 −230.5 ± 117.2
pull
Entries 53
Mean 15.04
Std Dev 8.083

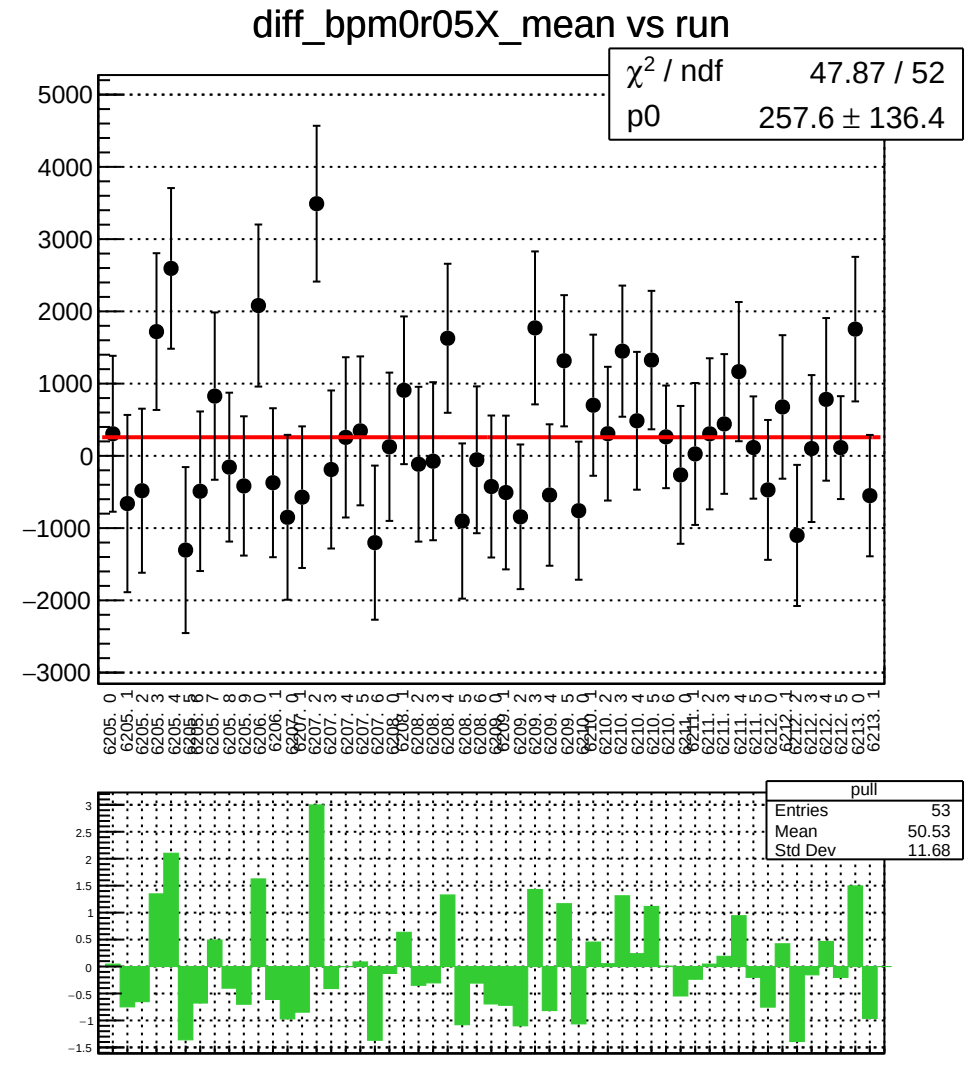

pull1D
Entries 53
Mean −0.007151
Std Dev 0.9777

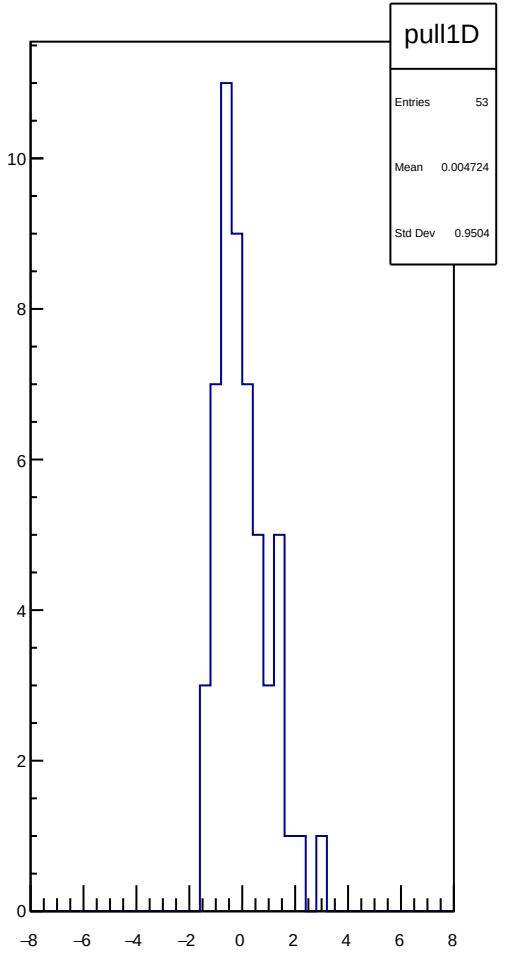

diff_bpm0r03X_rms vs run
×10^3
χ^2 / ndf 3515 / 52
p0 8.383e+04 ± 82.9
100
95
90
85
80
75

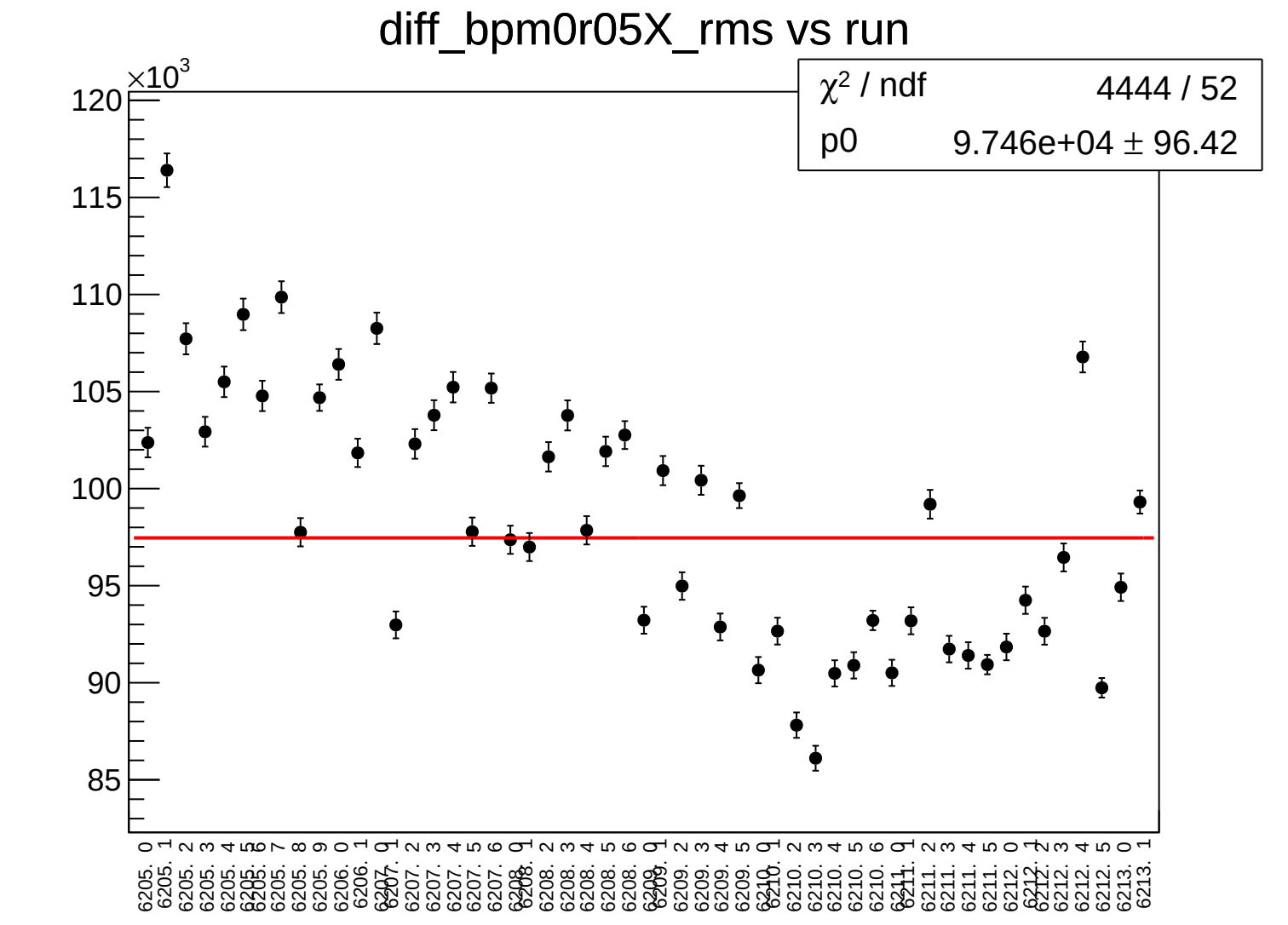

diff_bpm0r03Y_mean vs run
χ² / ndf 32.69 / 52
p0 20.73 ± 4.458
pull
Entries 53
Mean 378
Std Dev 344

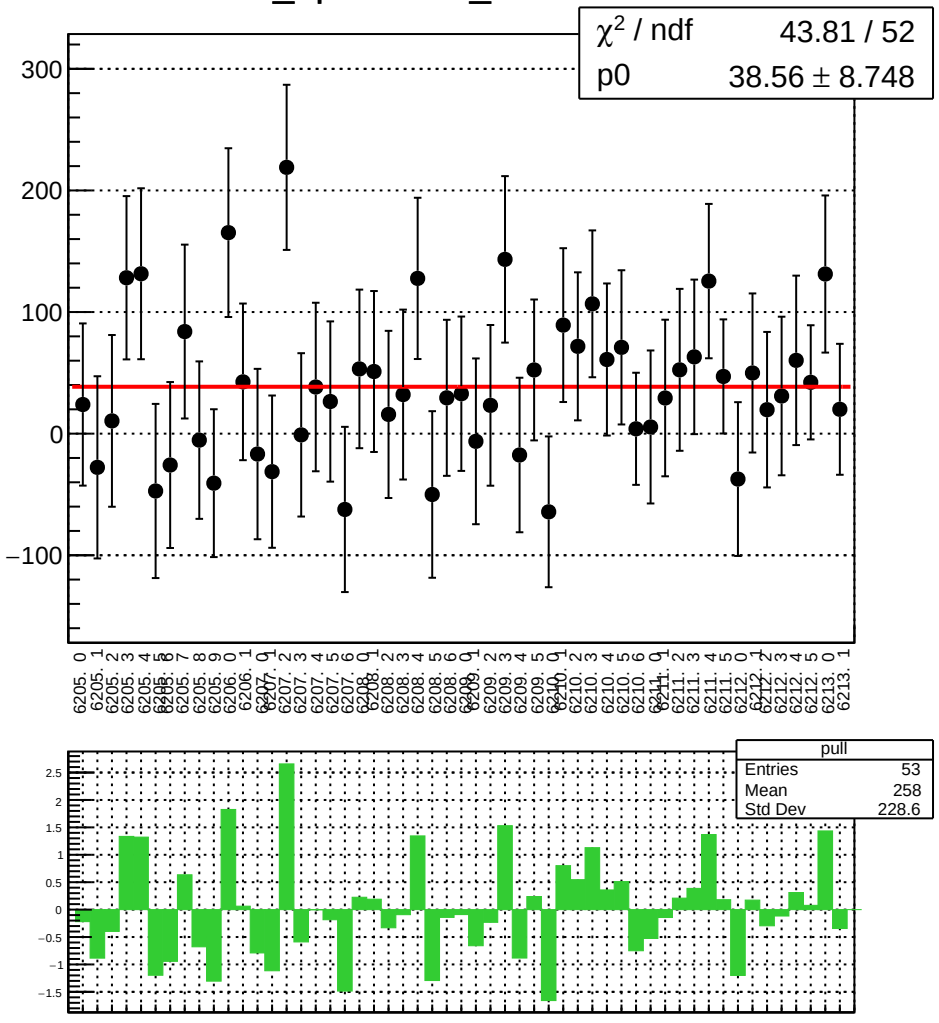

pull1D
Entries 53
Mean 0.004768
Std Dev 0.7853

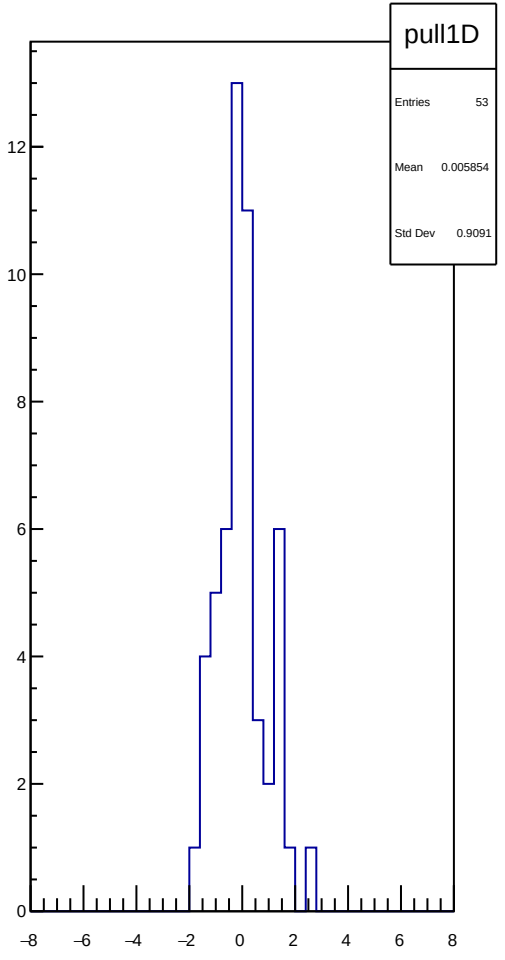

diff_bpm0r03Y_rms vs run
χ² / ndf 197.5 / 52
p0 3193 ± 3.152
3300
3250
3200
3150
3100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

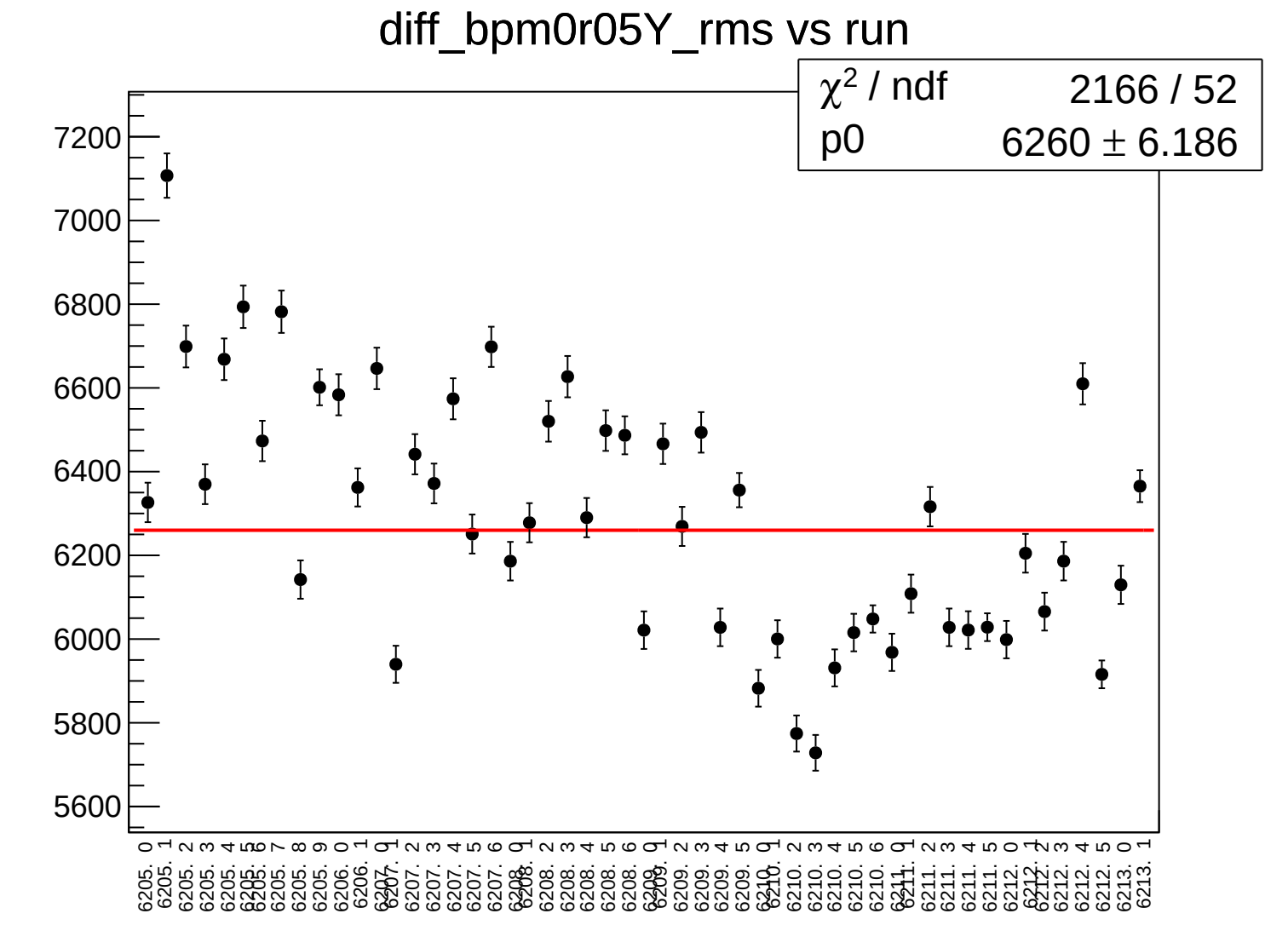

diff_bpm0r05X_mean vs run
χ² / ndf 47.87 / 52
p0 257.6 ± 136.4
pull
Entries 53
Mean 50.53
Std Dev 11.68

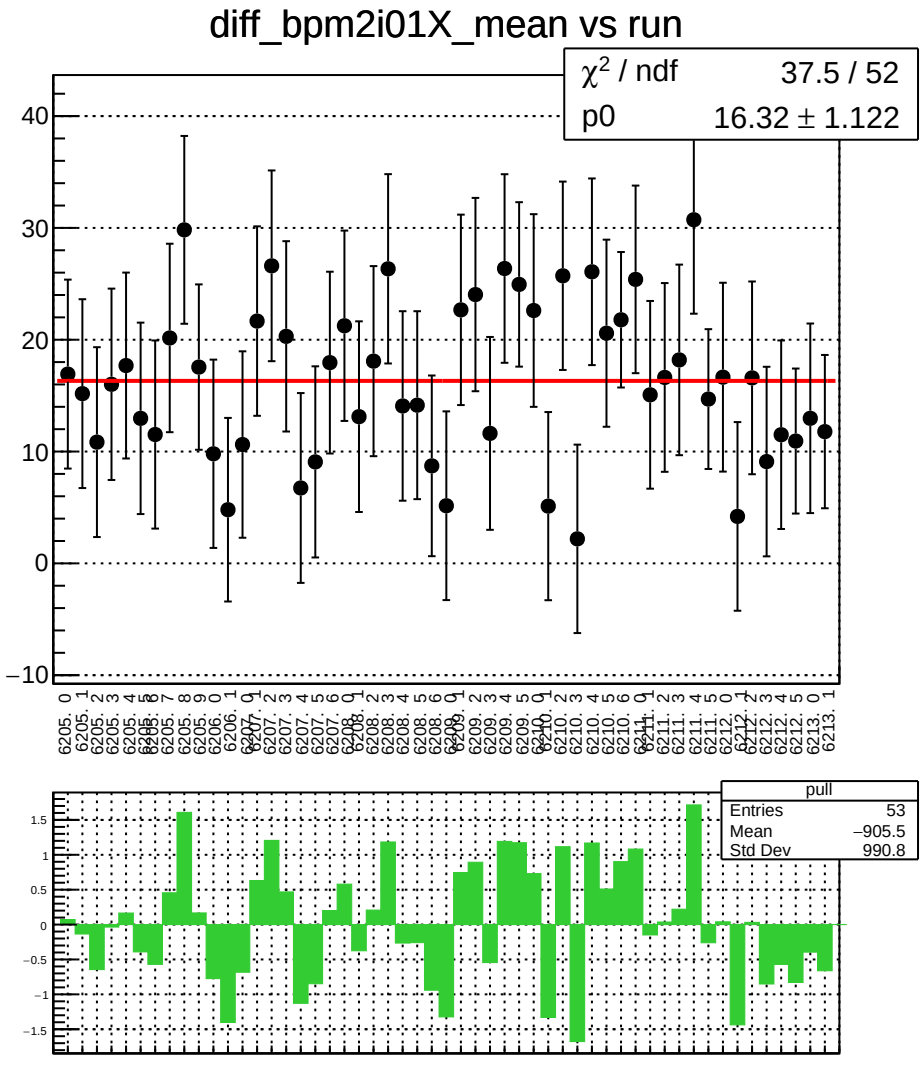

pull1D
Entries 53
Mean 0.004724
Std Dev 0.9504

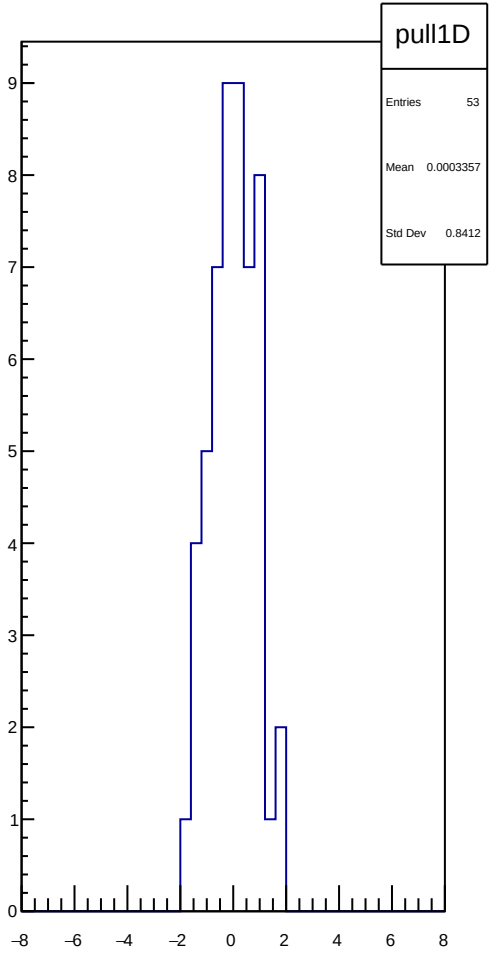

diff_bpm0r05X_rms vs run
×10^3
120
115
110
105
100
95
90
85
χ² / ndf 4444 / 52
p0 9.746e+04 ± 96.42
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

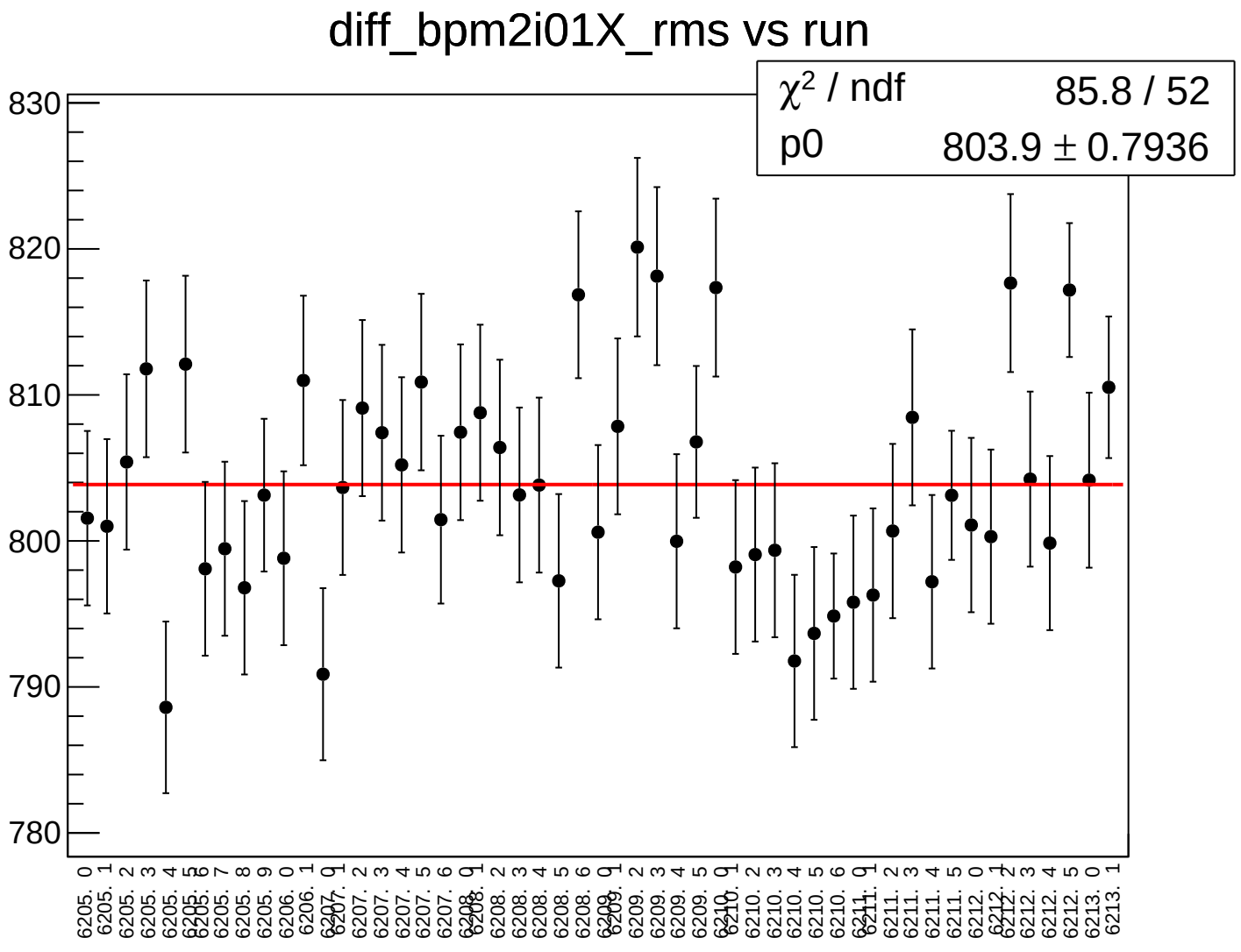

diff_bpm0r05Y_mean vs run
χ² / ndf 43.81 / 52
p0 38.56 ± 8.748
pull
Entries 53
Mean 258
Std Dev 228.6

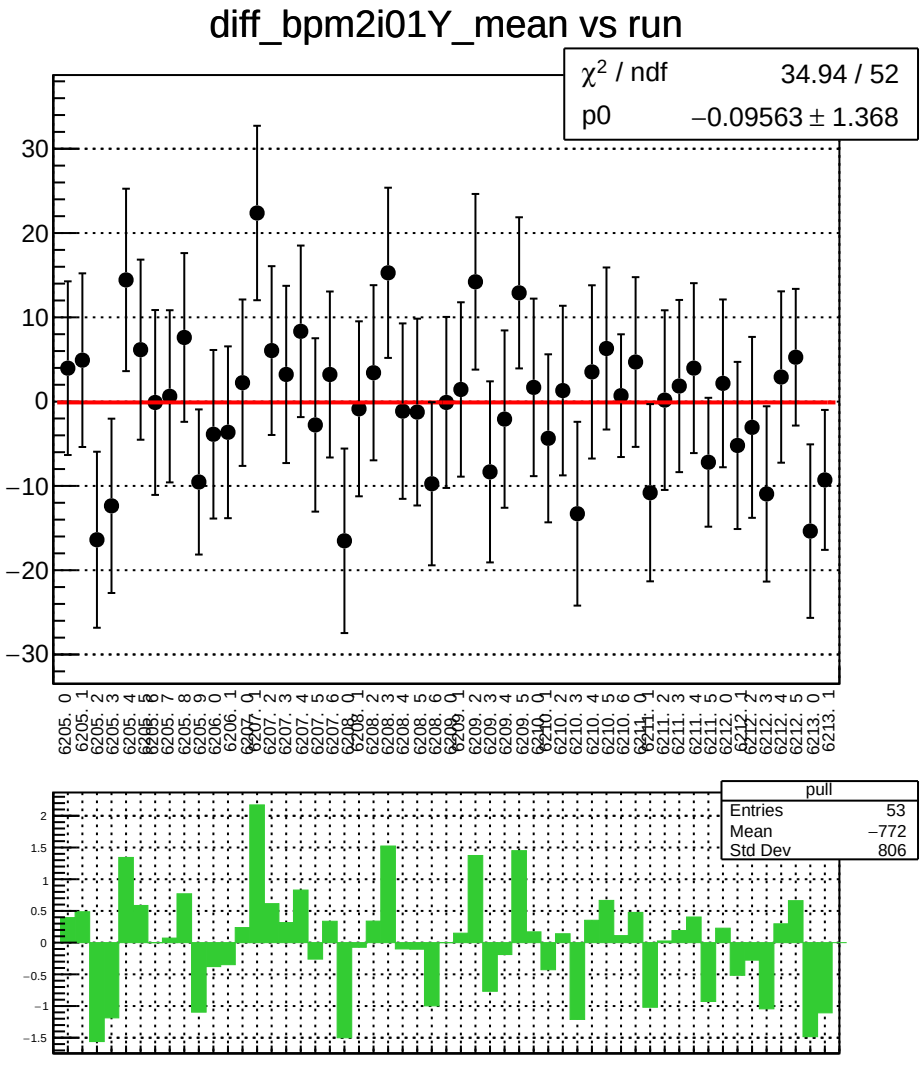

pull1D
Entries 53
Mean 0.005854
Std Dev 0.9091

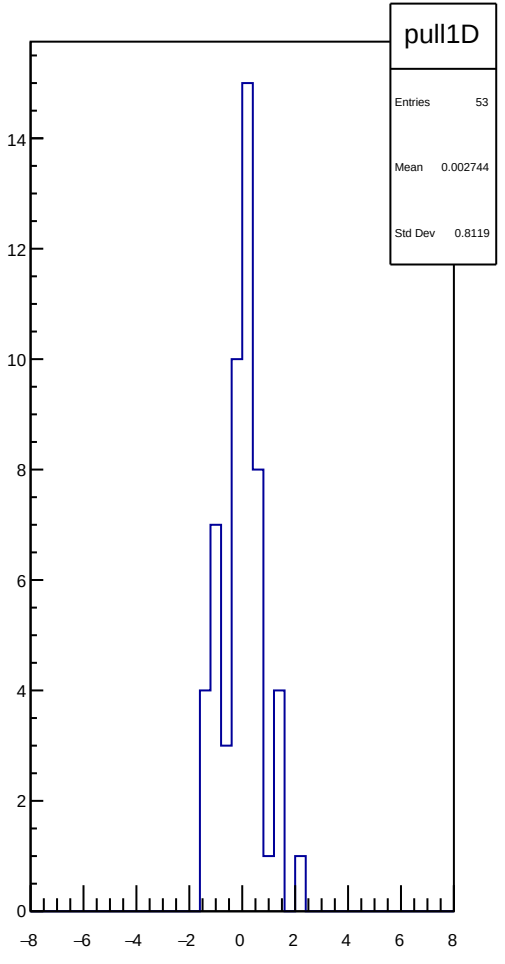

diff_bpm0r05Y_rms vs run
χ² / ndf 2166 / 52
p0 6260 ± 6.186
7200
7000
6800
6600
6400
6200
6000
5800
5600
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

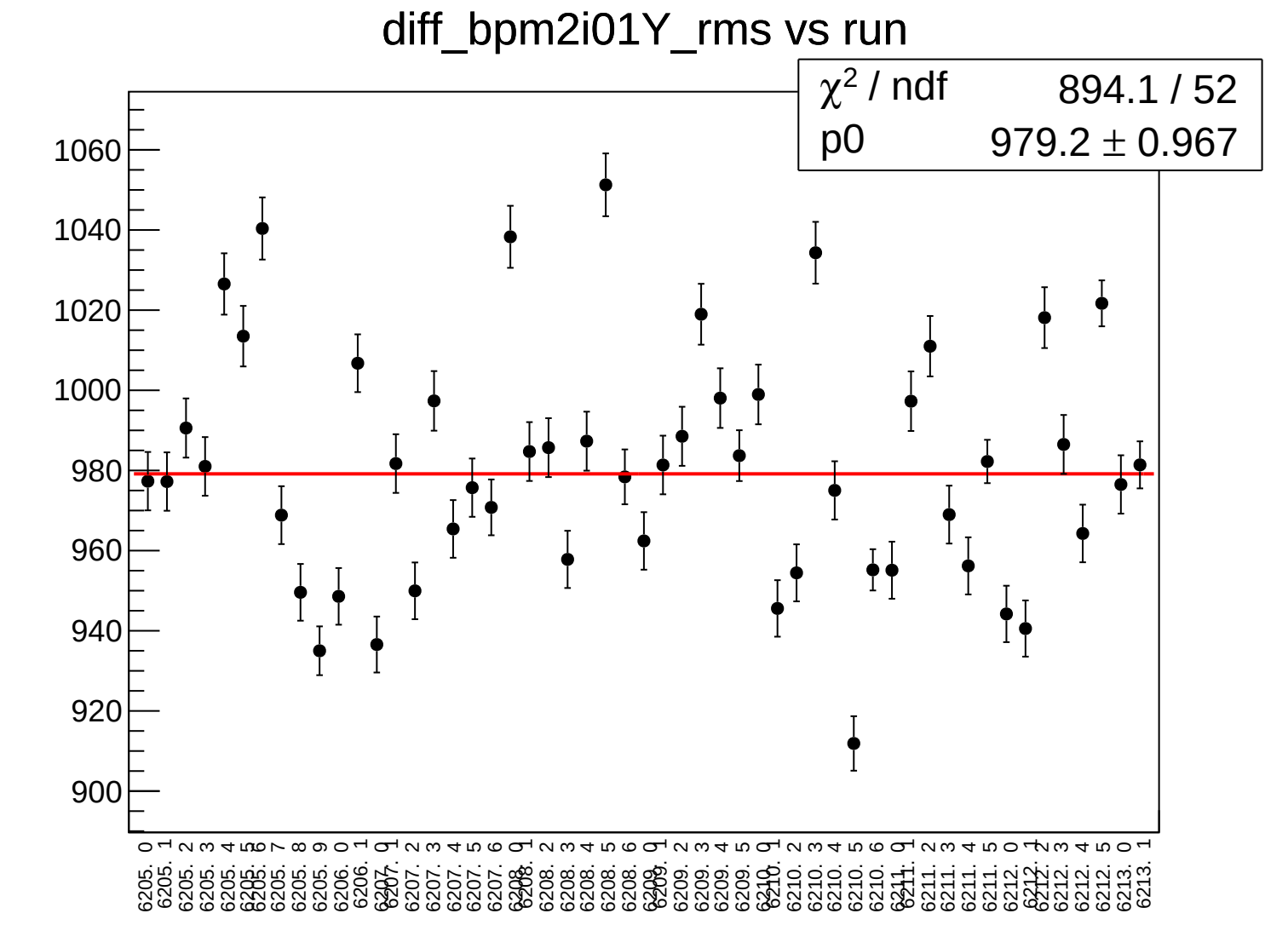

diff_bpm2i01X_mean vs run
χ^2 / ndf 37.5 / 52
p0 16.32 ± 1.122
pull
Entries 53
Mean −905.5
Std Dev 990.8

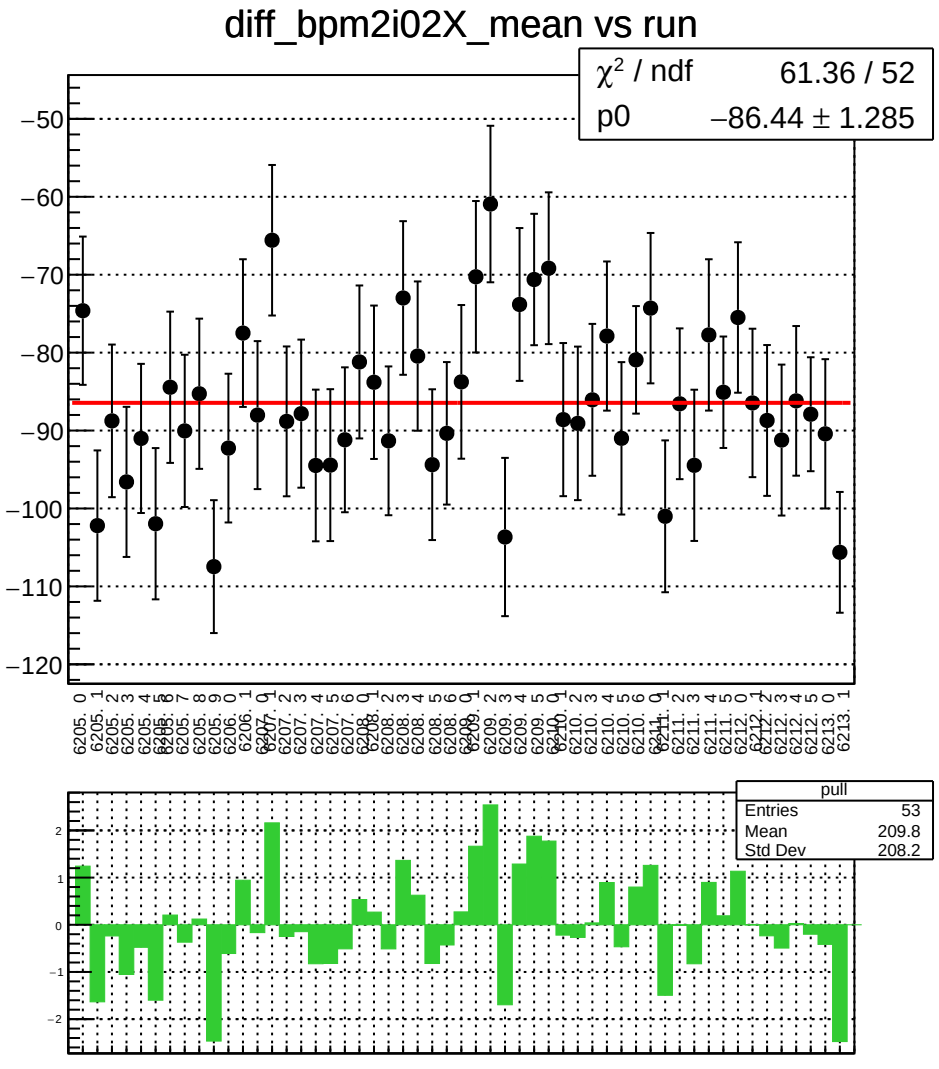

pull1D
Entries 53
Mean 0.0003357
Std Dev 0.8412

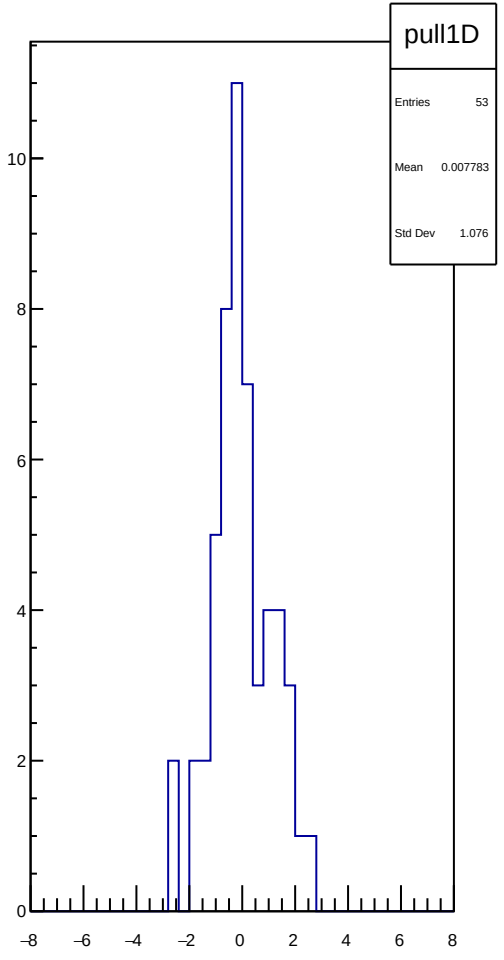

diff_bpm2i01X_rms vs run
χ² / ndf 85.8 / 52
p0 803.9 ± 0.7936
830
820
810
800
790
780
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

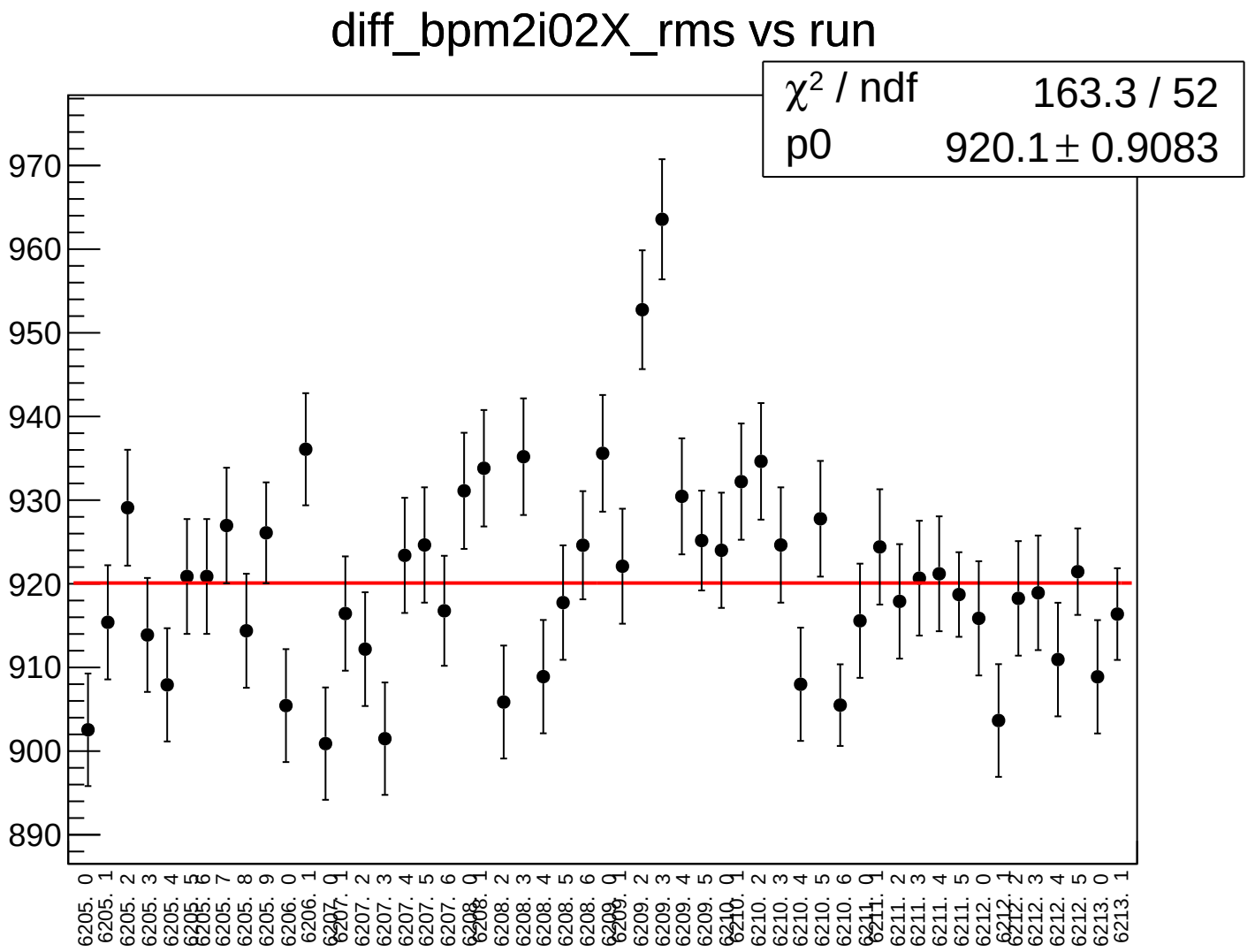

diff_bpm2i01Y_mean vs run
χ² / ndf 34.94 / 52
p0 −0.09563 ± 1.368
pull
Entries 53
Mean −772
Std Dev 806

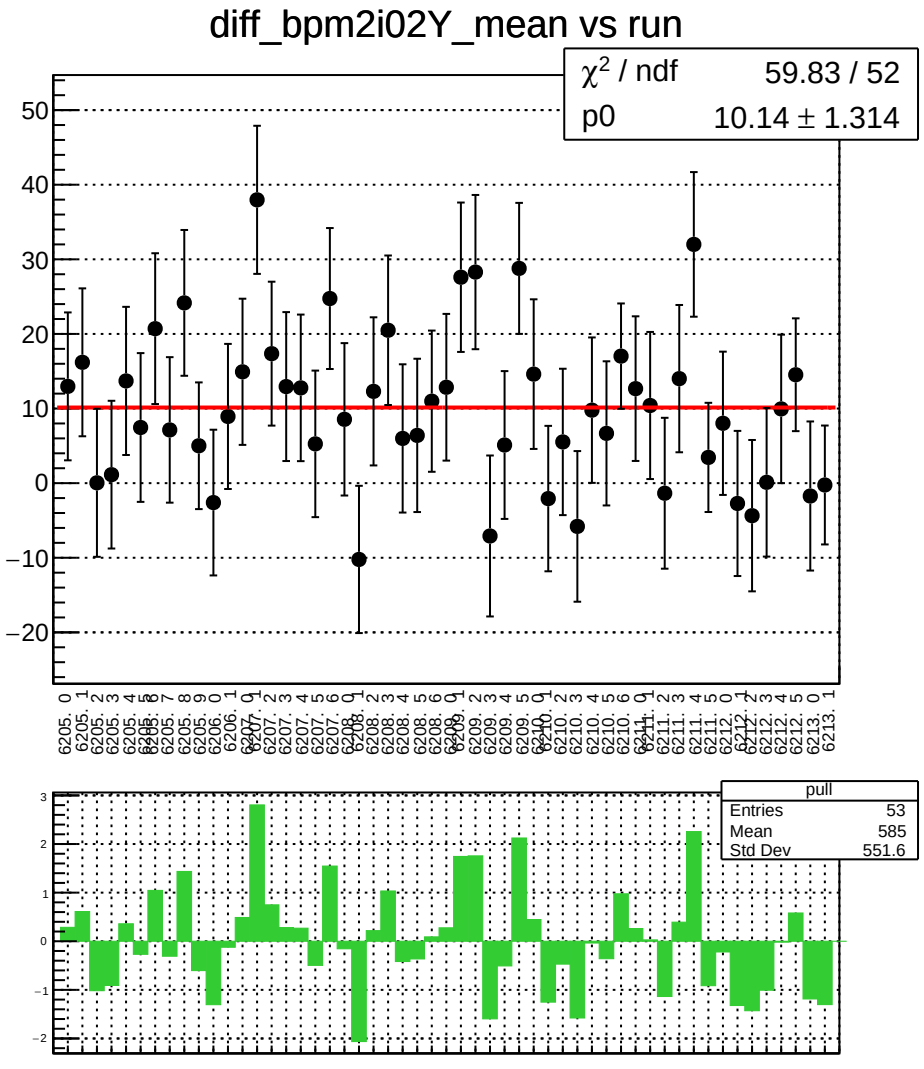

pull1D
Entries 53
Mean 0.002744
Std Dev 0.8119

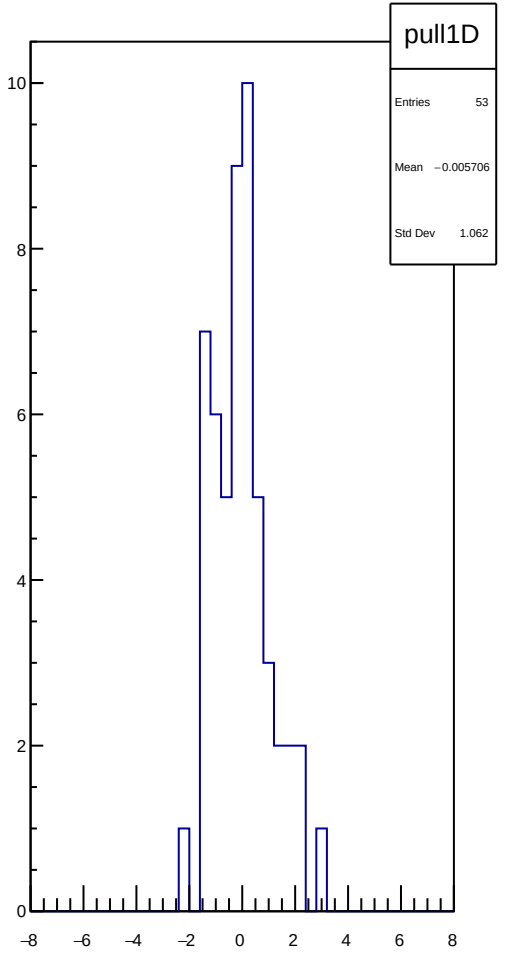

diff_bpm2i01Y_rms vs run
χ² / ndf 894.1 / 52
p0 979.2 ± 0.967
1060
1040
1020
1000
980
960
940
920
900
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

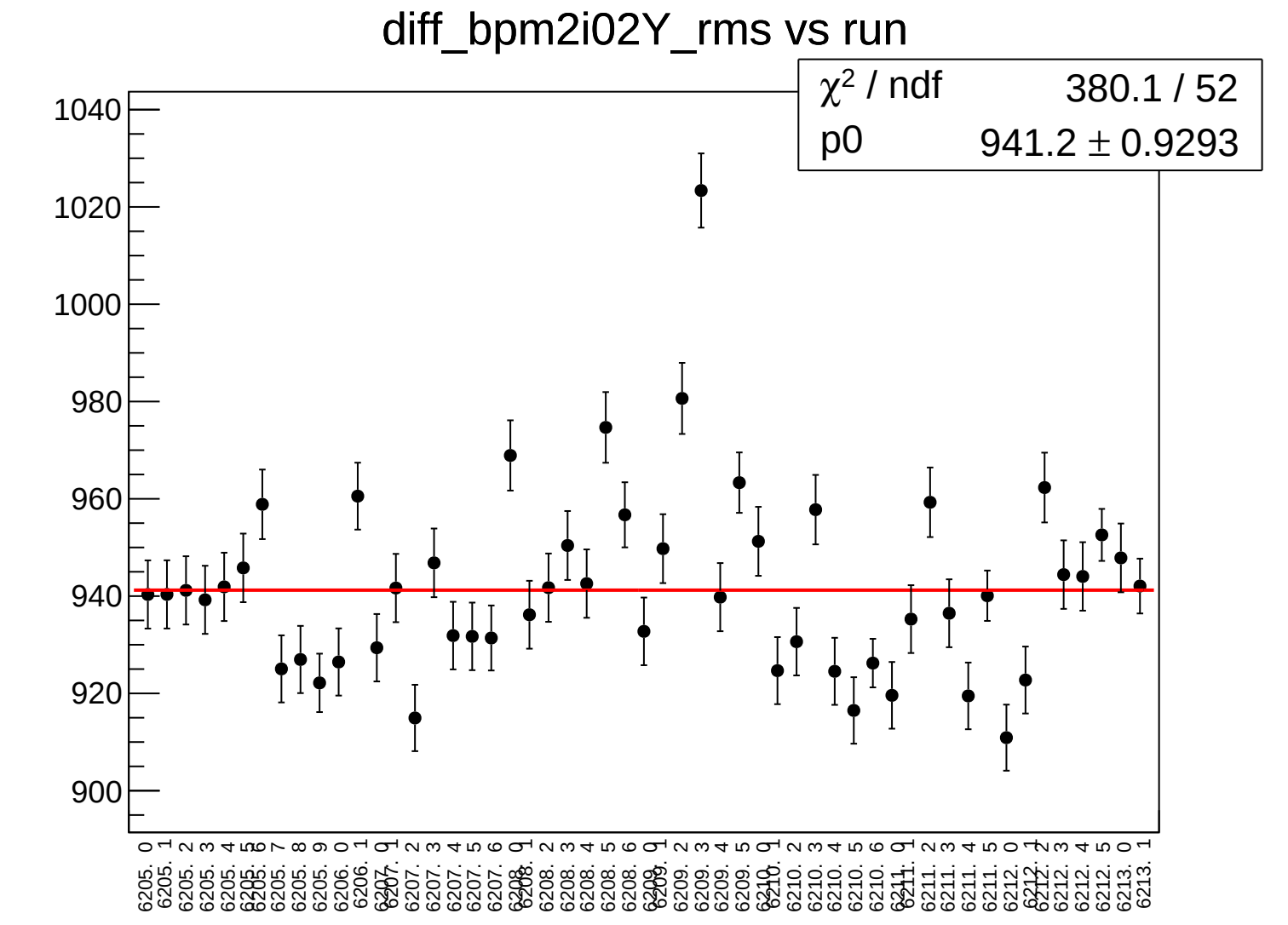

diff_bpm2i02X_mean vs run
χ² / ndf 61.36 / 52
p0 −86.44 ± 1.285
pull
Entries 53
Mean 209.8
Std Dev 208.2


pull1D
Entries 53
Mean 0.007783
Std Dev 1.076


diff_bpm2i02X_rms vs run
χ² / ndf 163.3 / 52
p0 920.1 ± 0.9083
970
960
950
940
930
920
910
900
890
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm2i02Y_mean vs run
χ² / ndf 59.83 / 52
p0 10.14 ± 1.314
pull
Entries 53
Mean 585
Std Dev 551.6


pull1D
Entries 53
Mean −0.005706
Std Dev 1.062


diff_bpm2i02Y_rms vs run
χ² / ndf 380.1 / 52
p0 941.2 ± 0.9293
1040
1020
1000
980
960
940
920
900
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
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6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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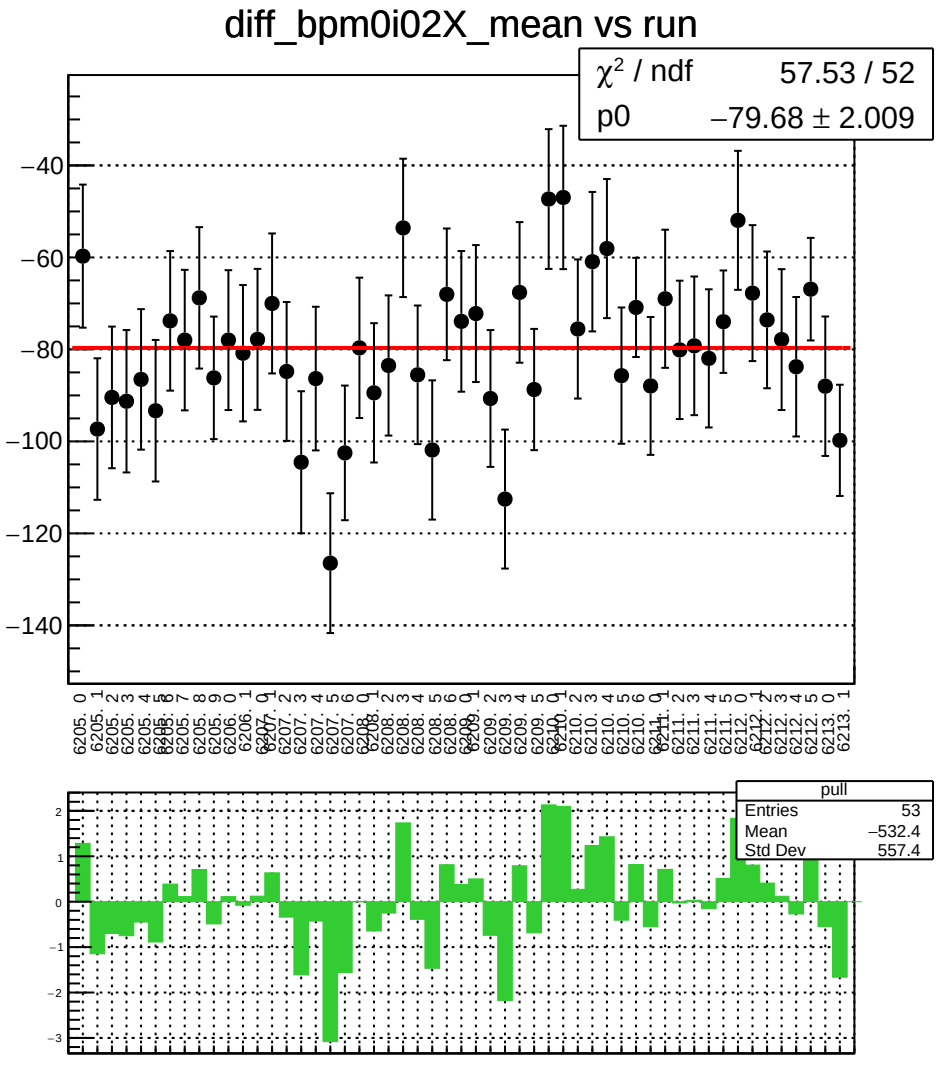
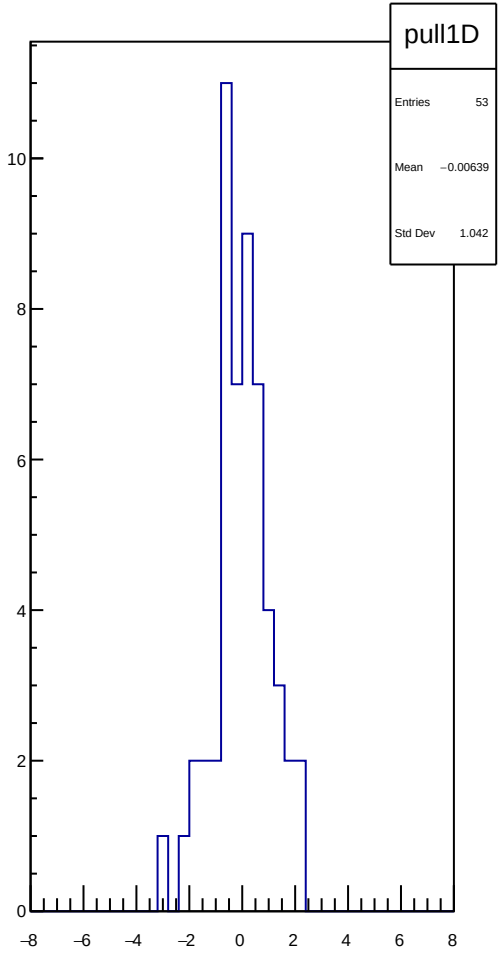
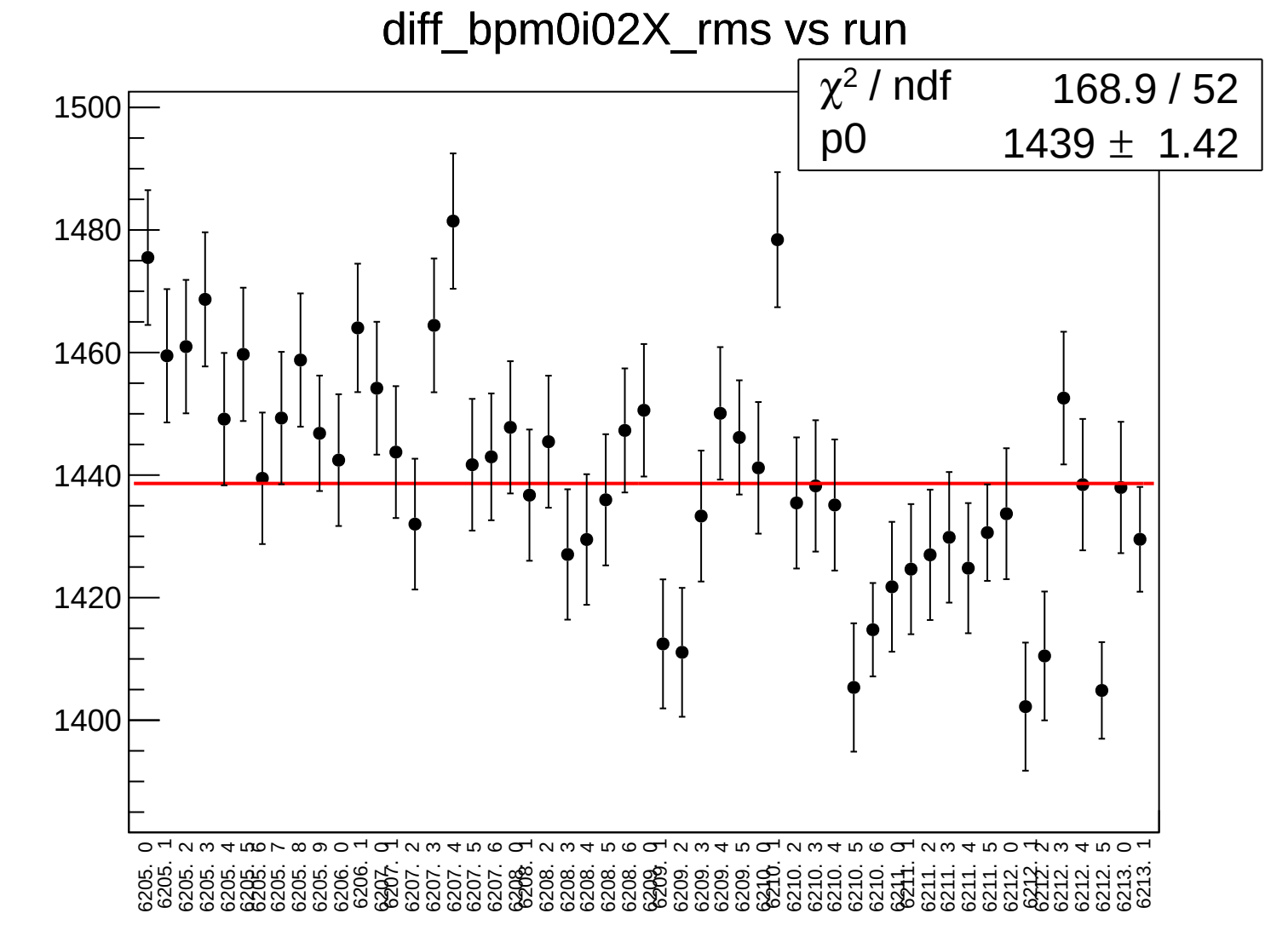
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0i02X_mean vs run
χ² / ndf 57.53 / 52
p0 −79.68 ± 2.009
pull
Entries 53
Mean −532.4
Std Dev 557.4


pull1D
Entries 53
Mean −0.00639
Std Dev 1.042


diff_bpm0i02X_rms vs run
χ² / ndf 168.9 / 52
p0 1439 ± 1.42
1500
1480
1460
1440
1420
1400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
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6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
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6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
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6211. 3
6211. 4
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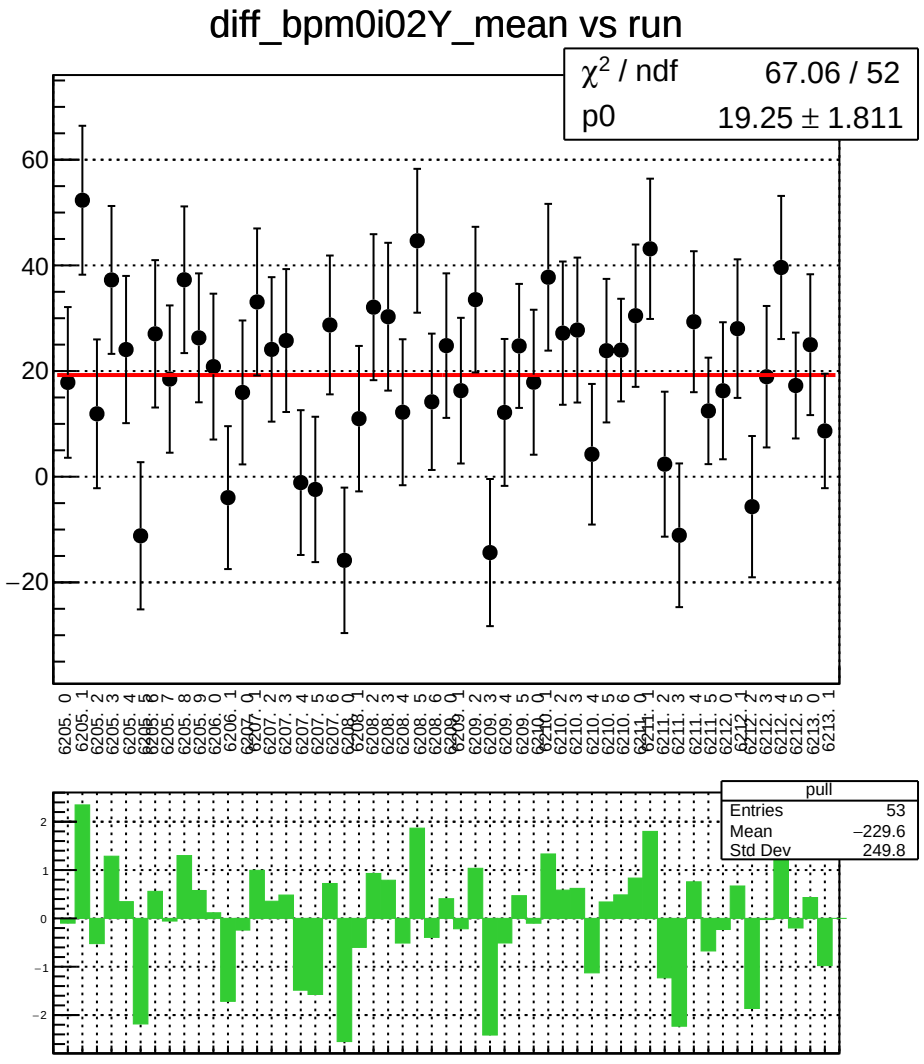
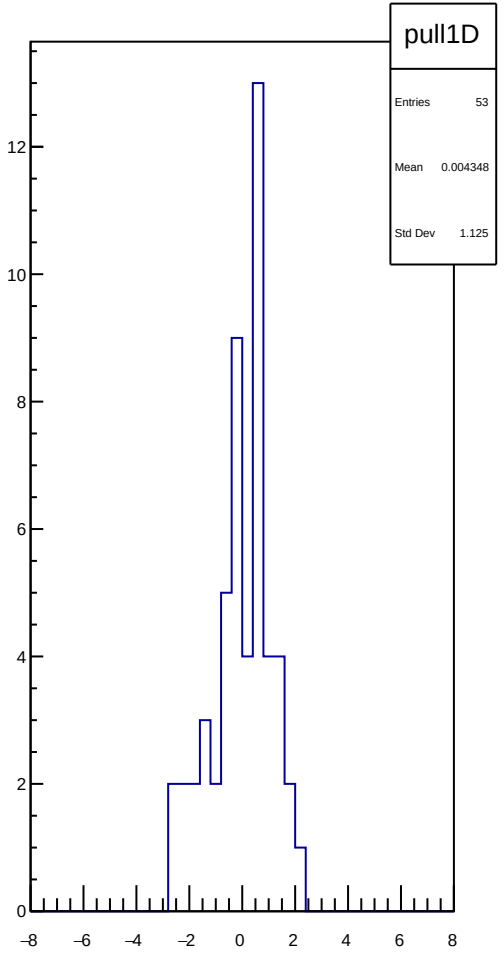
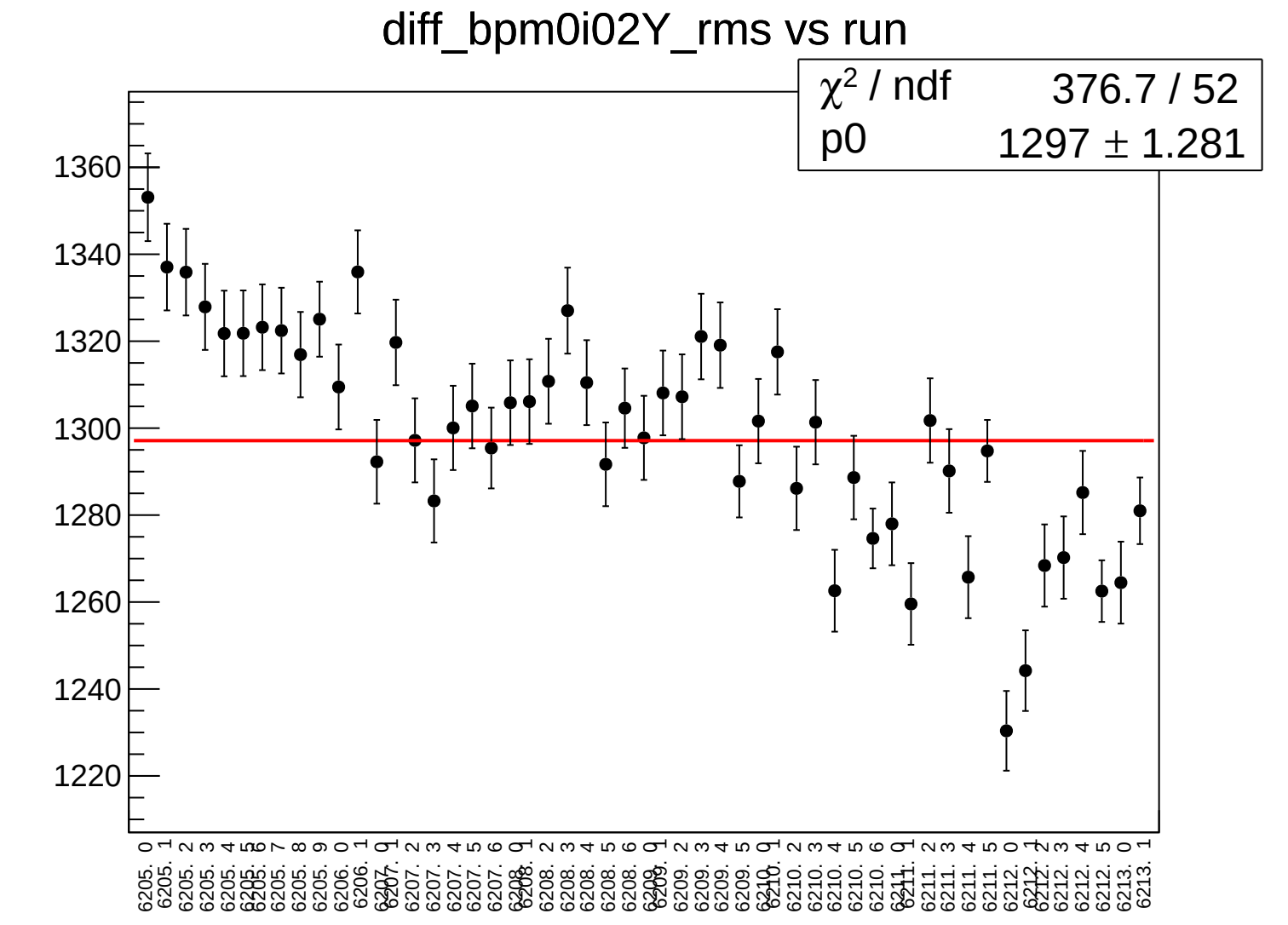
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0i02Y_mean vs run
χ² / ndf 67.06 / 52
p0 19.25 ± 1.811
pull
Entries 53
Mean −229.6
Std Dev 249.8


pull1D
Entries 53
Mean 0.004348
Std Dev 1.125


diff_bpm0i02Y_rms vs run
χ² / ndf 376.7 / 52
p0 1297 ± 1.281
1360
1340
1320
1300
1280
1260
1240
1220
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
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6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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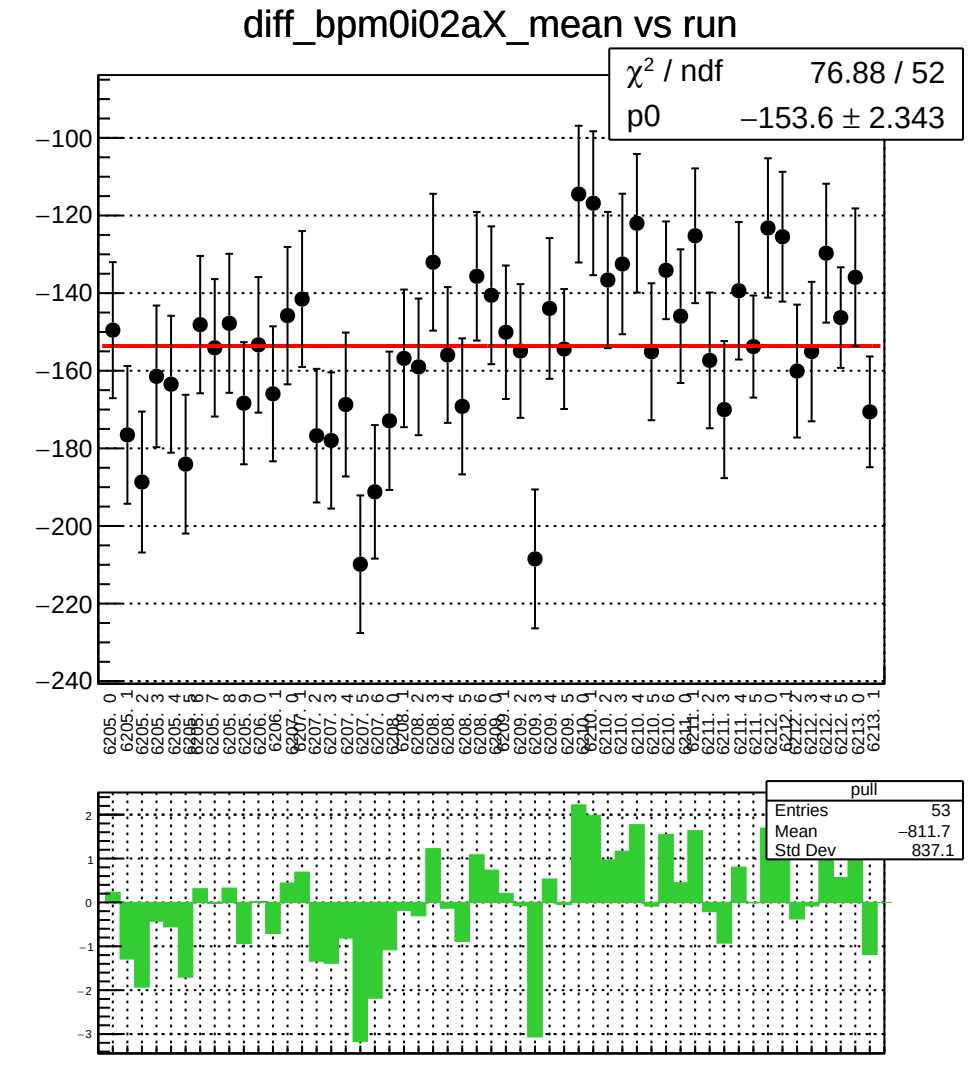
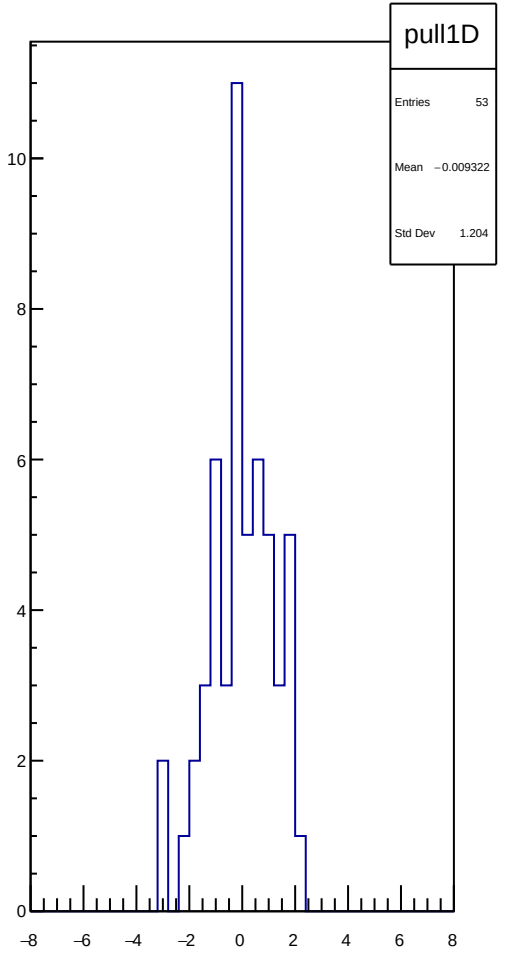
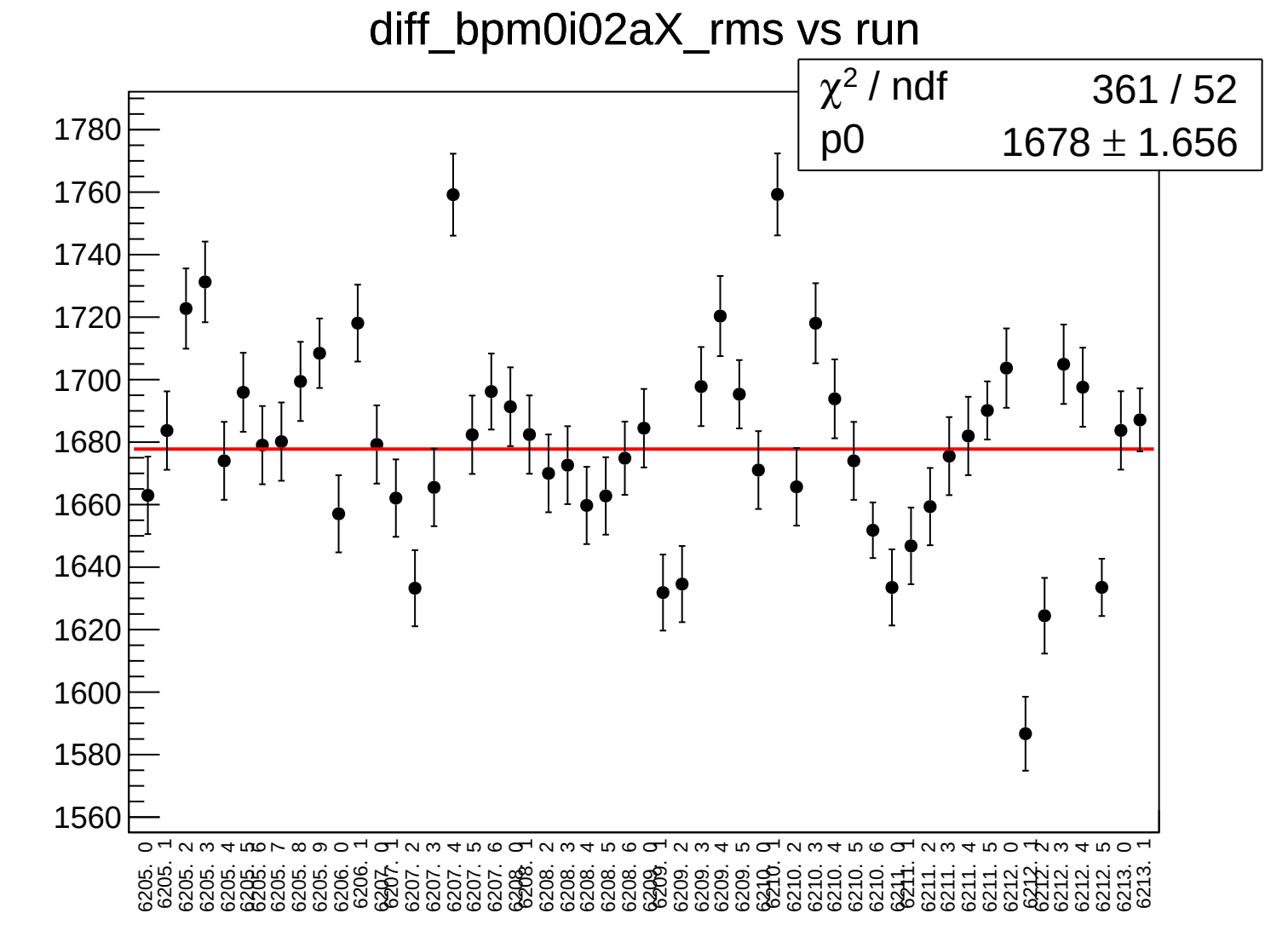
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0i02aX_mean vs run
χ² / ndf 76.88 / 52
p0 −153.6 ± 2.343
−100
−120
−140
−160
−180
−200
−220
−240
pull
Entries 53
Mean −811.7
Std Dev 837.1
2
1
0
−1
−2
−3


pull1D
Entries 53
Mean −0.009322
Std Dev 1.204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02aX_rms vs run
χ² / ndf 361 / 52
p0 1678 ± 1.656
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
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6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
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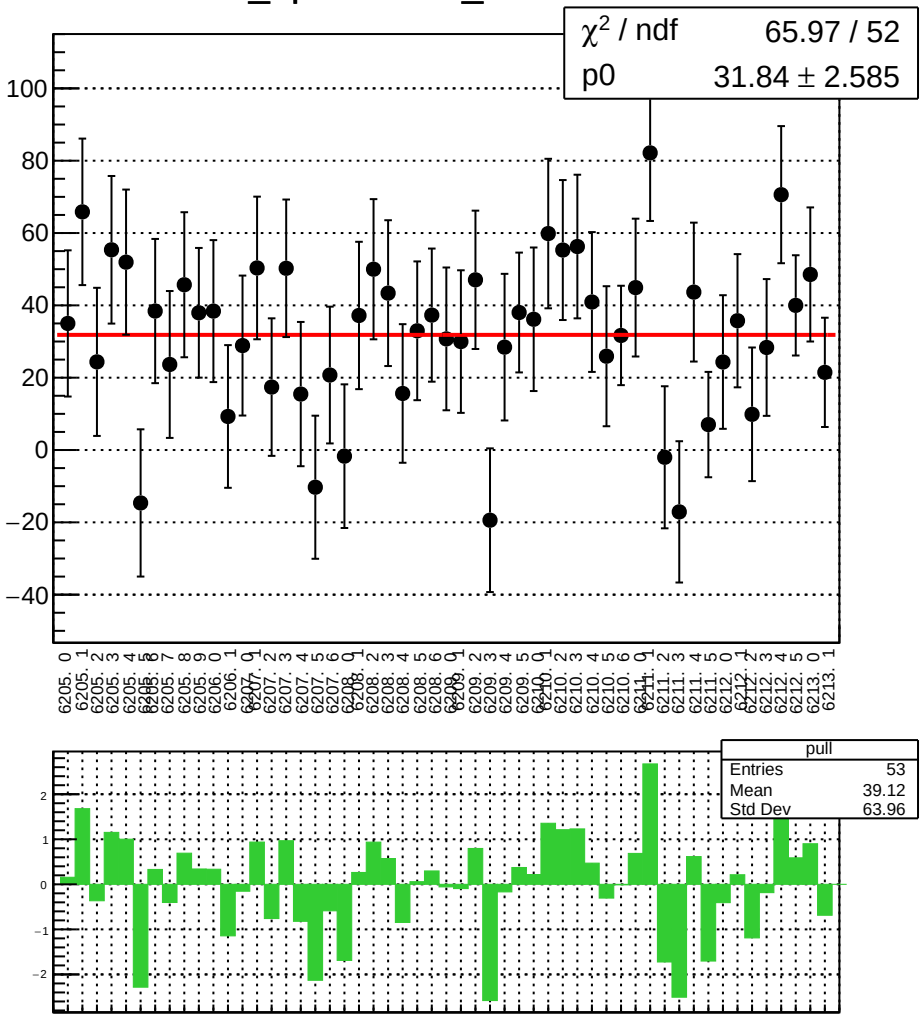
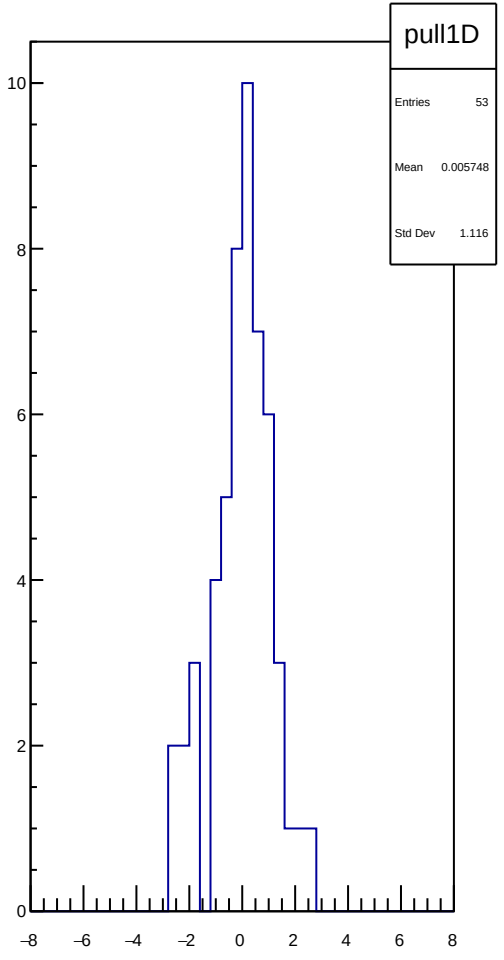
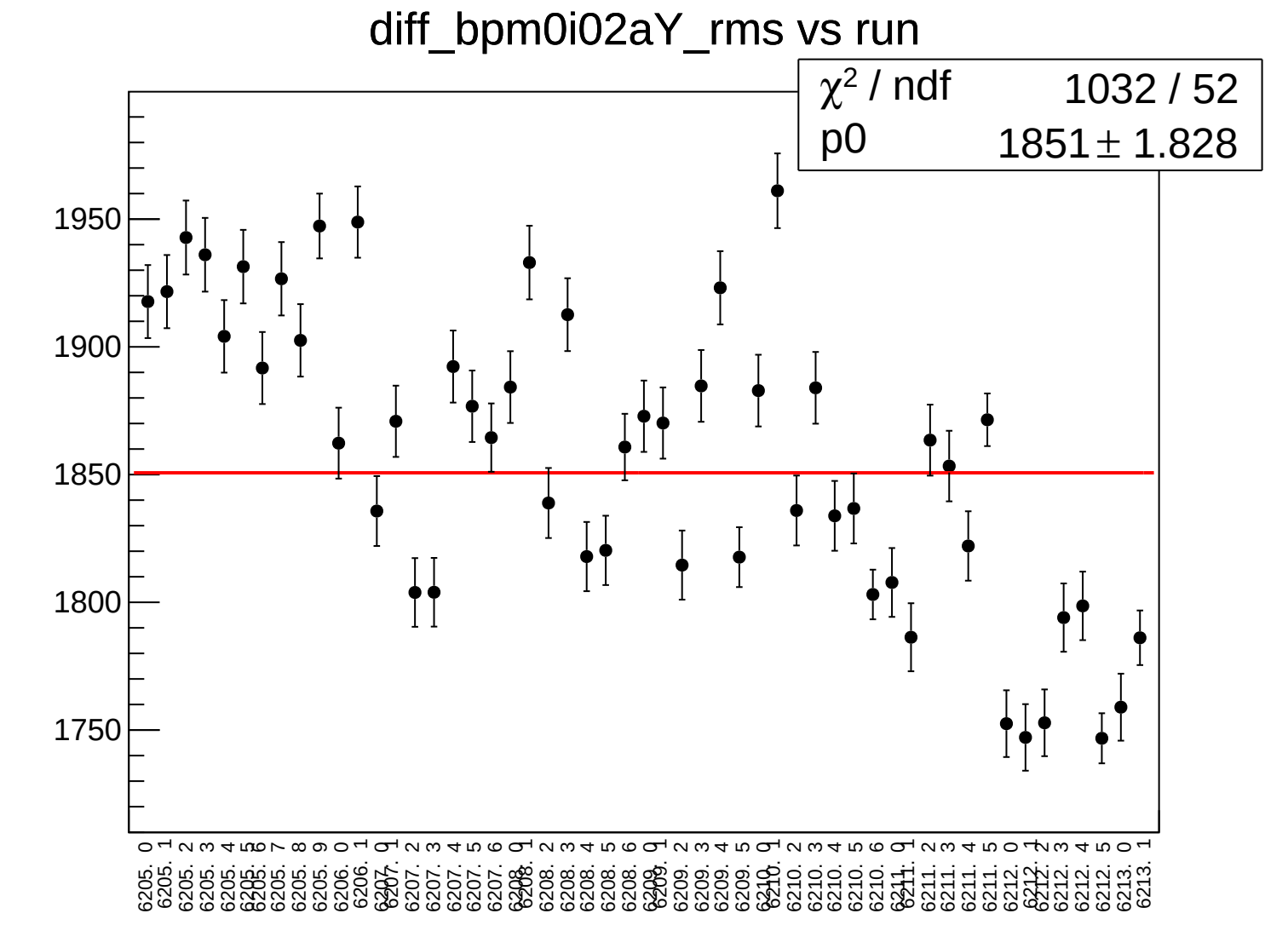
6213. 0
6213. 1


diff_bpm0i02aY_mean vs run
χ² / ndf 65.97 / 52
p0 31.84 ± 2.585
pull
Entries 53
Mean 39.12
Std Dev 63.96


pull1D
Entries 53
Mean 0.005748
Std Dev 1.116


diff_bpm0i02aY_rms vs run
χ² / ndf 1032 / 52
p0 1851 ± 1.828
1950
1900
1850
1800
1750
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
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6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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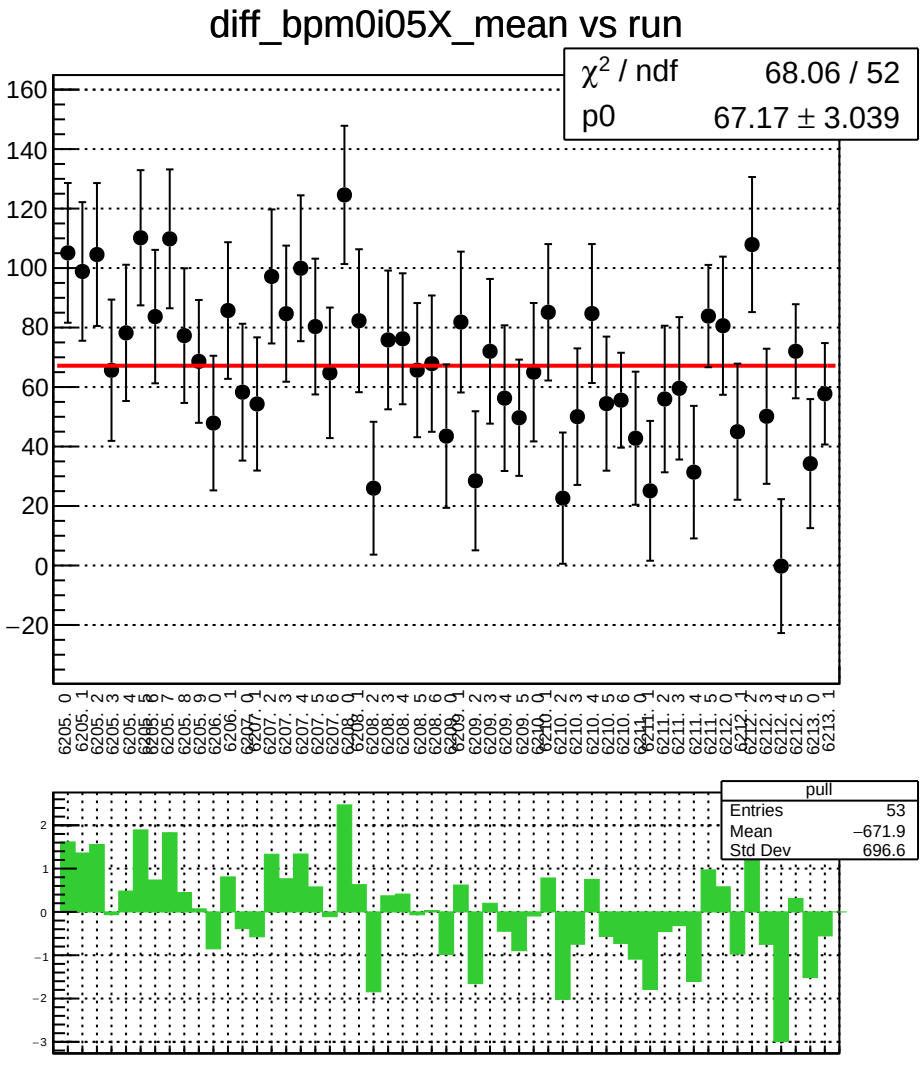
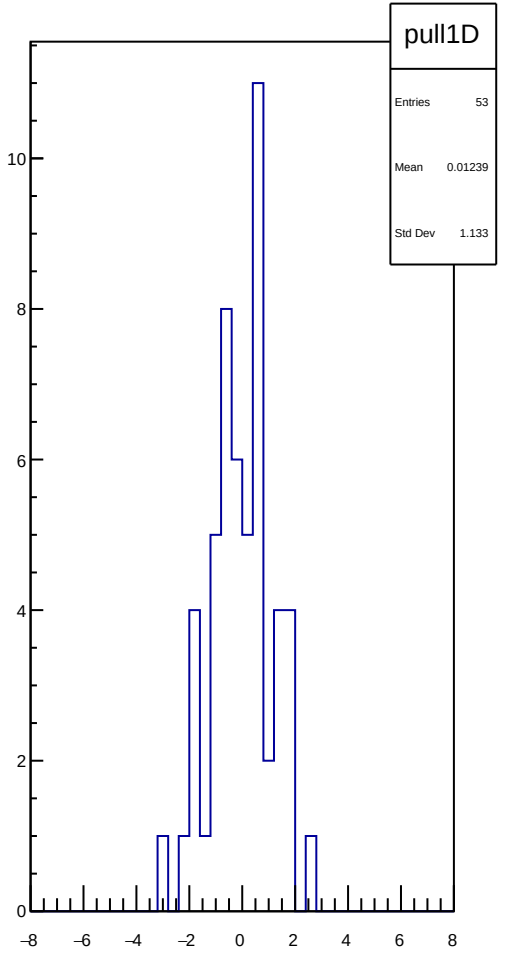
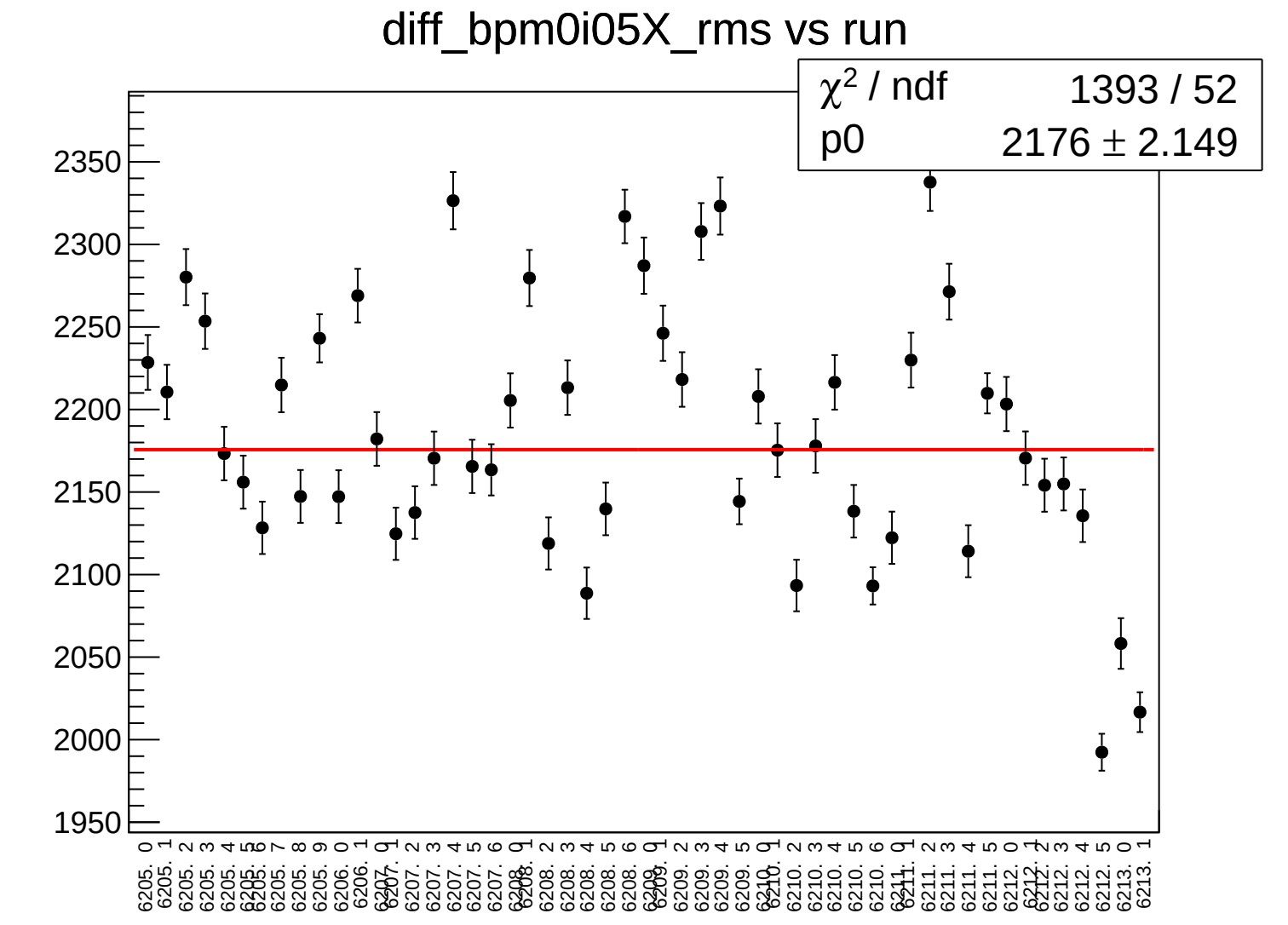

diff_bpm0i05X_mean vs run
χ² / ndf 68.06 / 52
p0 67.17 ± 3.039
pull
Entries 53
Mean −671.9
Std Dev 696.6


pull1D
Entries 53
Mean 0.01239
Std Dev 1.133


diff_bpm0i05X_rms vs run
χ^2 / ndf 1393 / 52
p0 2176 ± 2.149
2350
2300
2250
2200
2150
2100
2050
2000
1950
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 2
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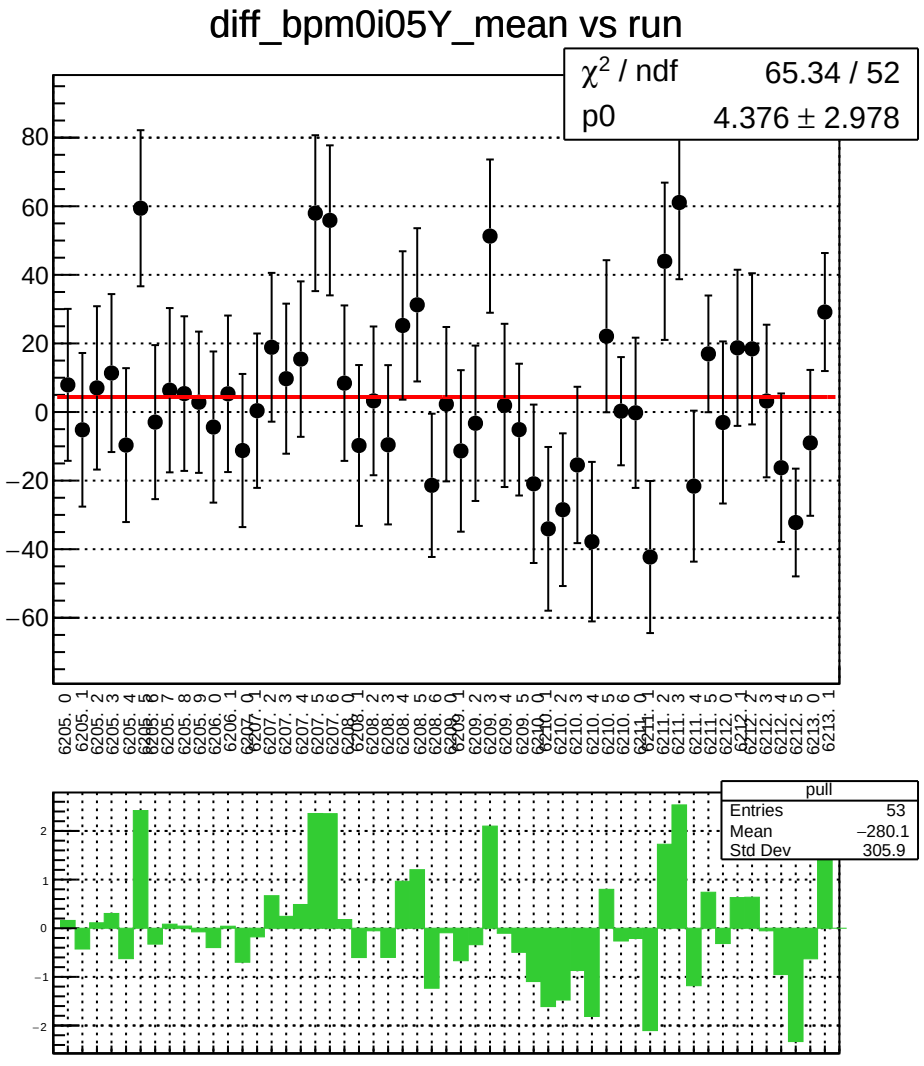
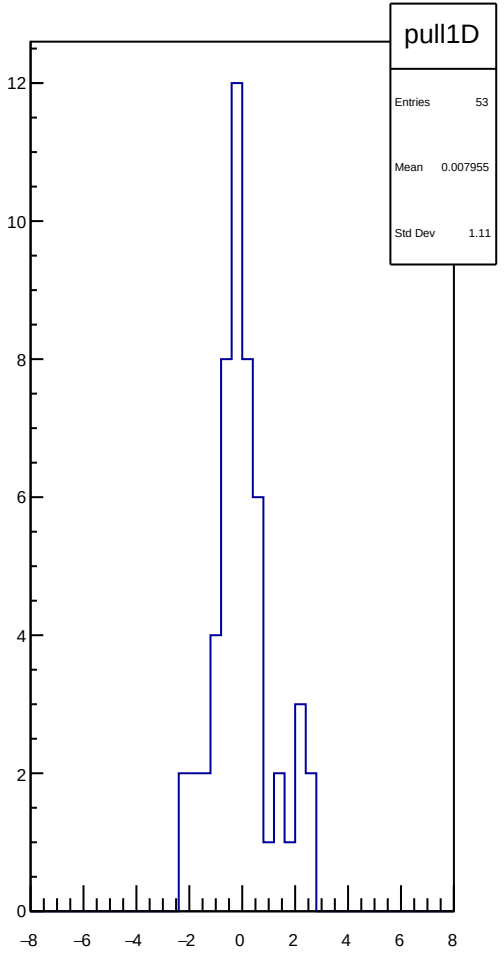
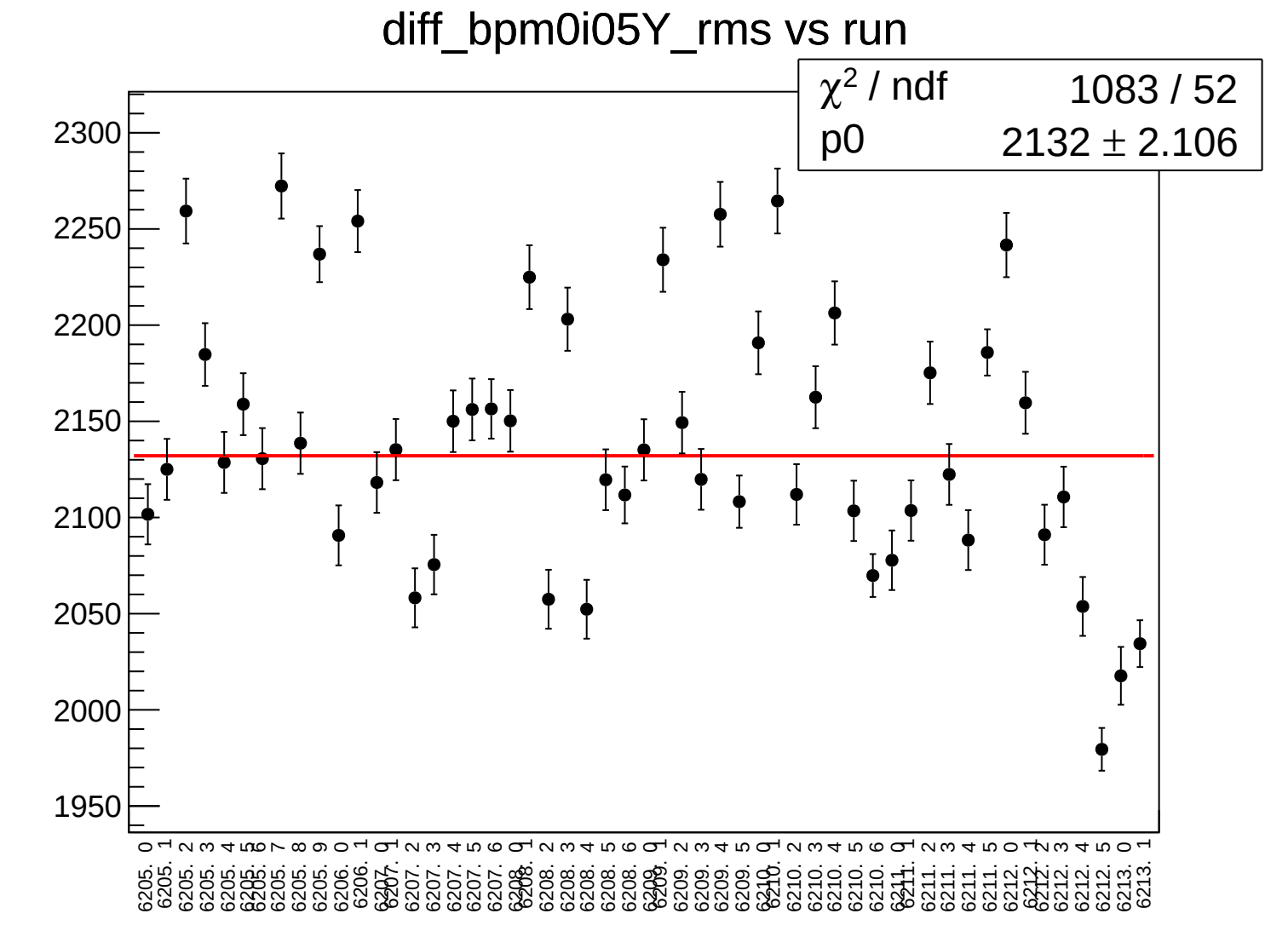
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm0i05Y_mean vs run
χ² / ndf 65.34 / 52
p0 4.376 ± 2.978
pull
Entries 53
Mean −280.1
Std Dev 305.9


pull1D
Entries 53
Mean 0.007955
Std Dev 1.11


diff_bpm0i05Y_rms vs run
χ² / ndf 1083 / 52
p0 2132 ± 2.106
2300
2250
2200
2150
2100
2050
2000
1950
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
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6207. 5
6207. 6
6208. 0
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6208. 6
6209. 0
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6209. 2
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6209. 5
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6210. 2
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6210. 6
6211. 0
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6211. 2
6211. 3
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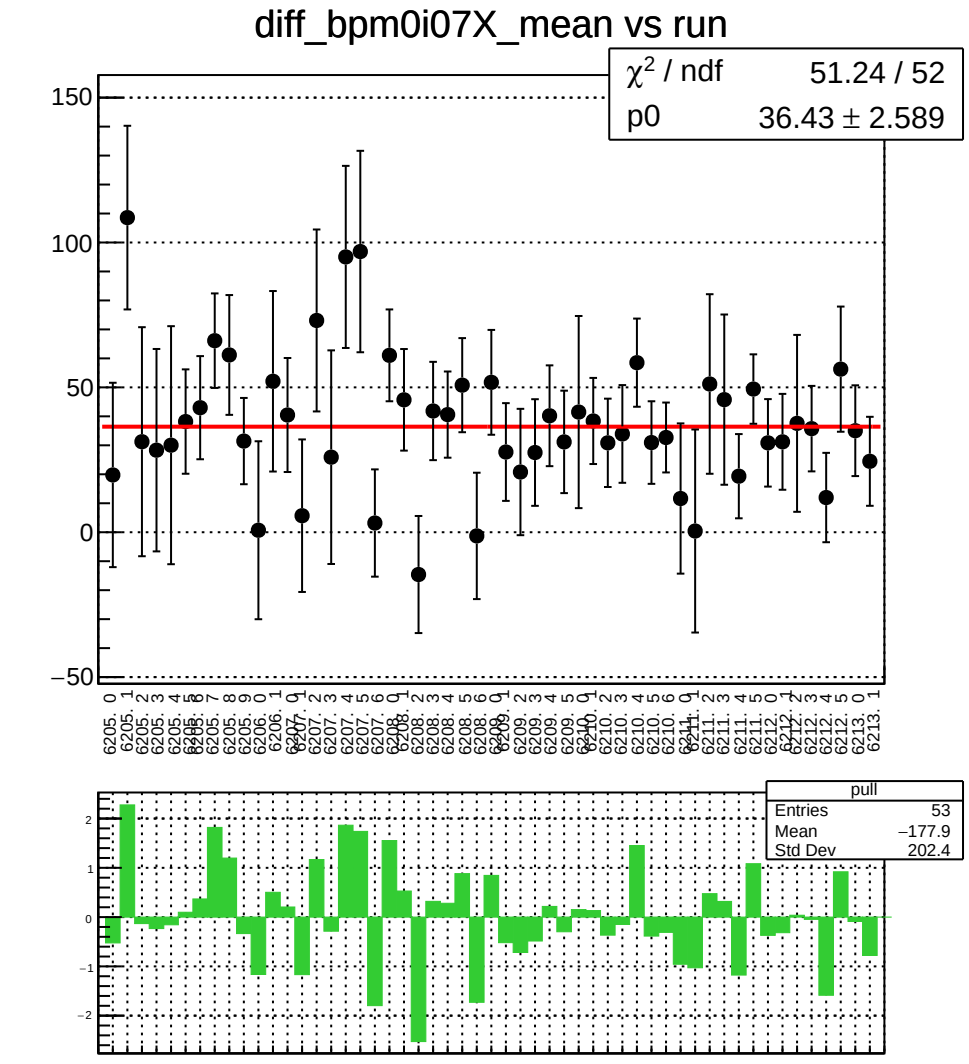
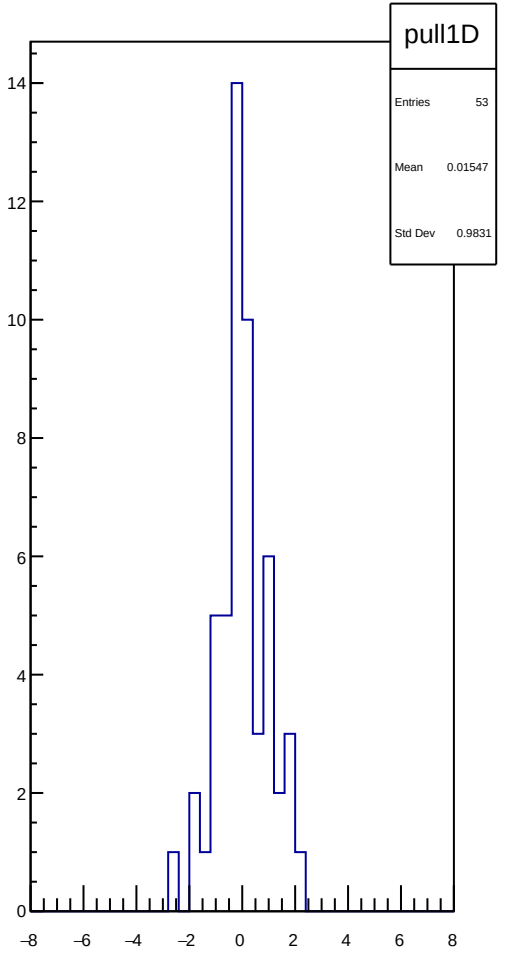
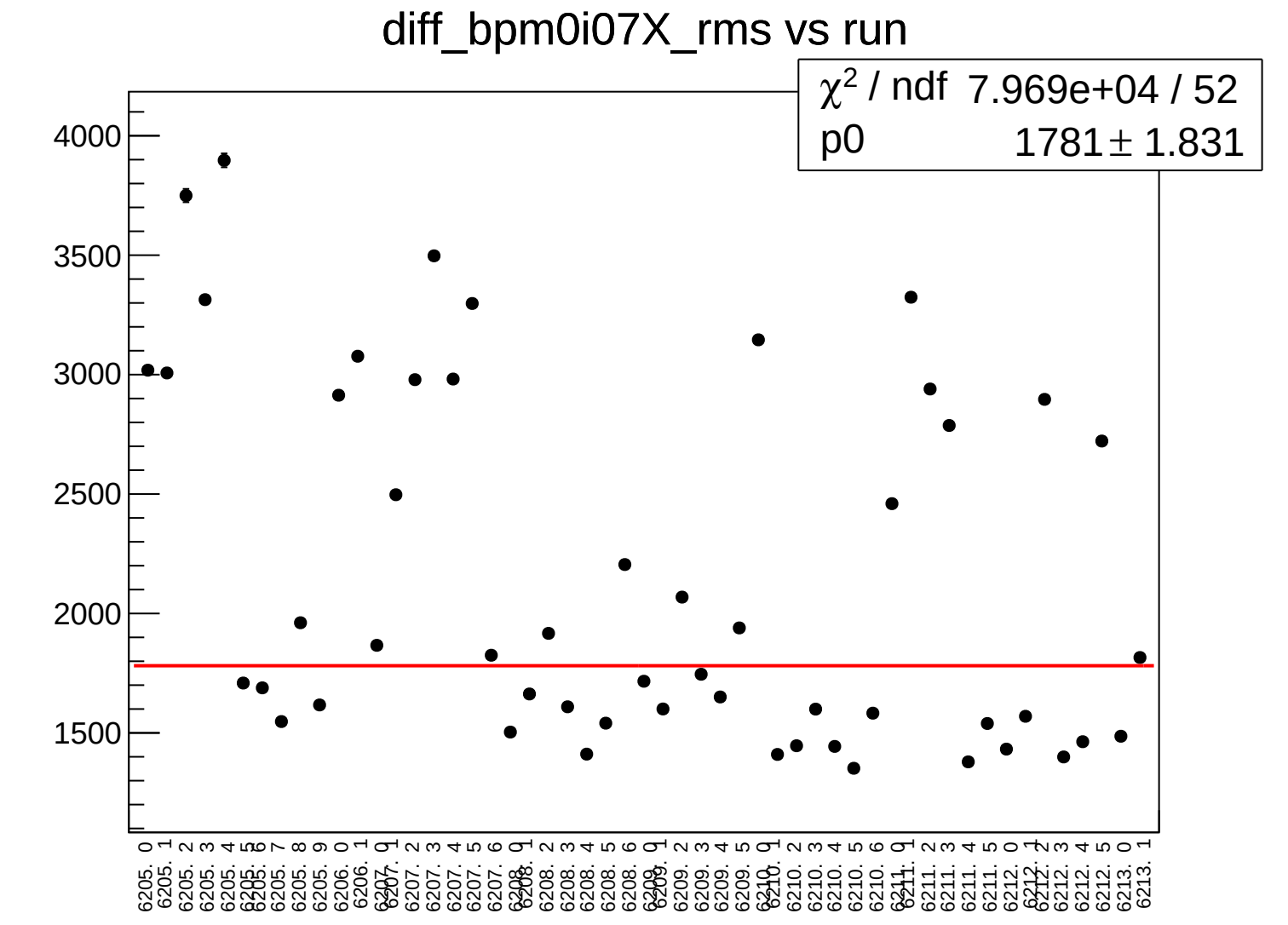
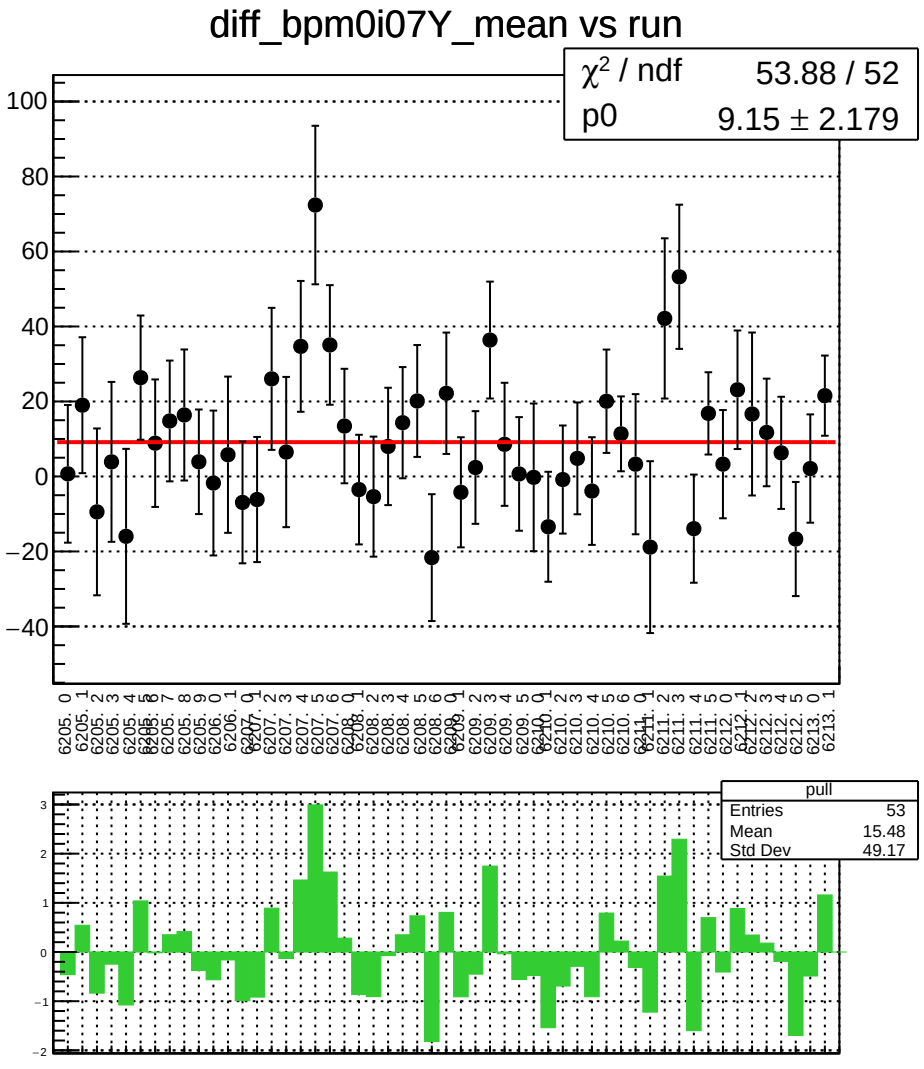
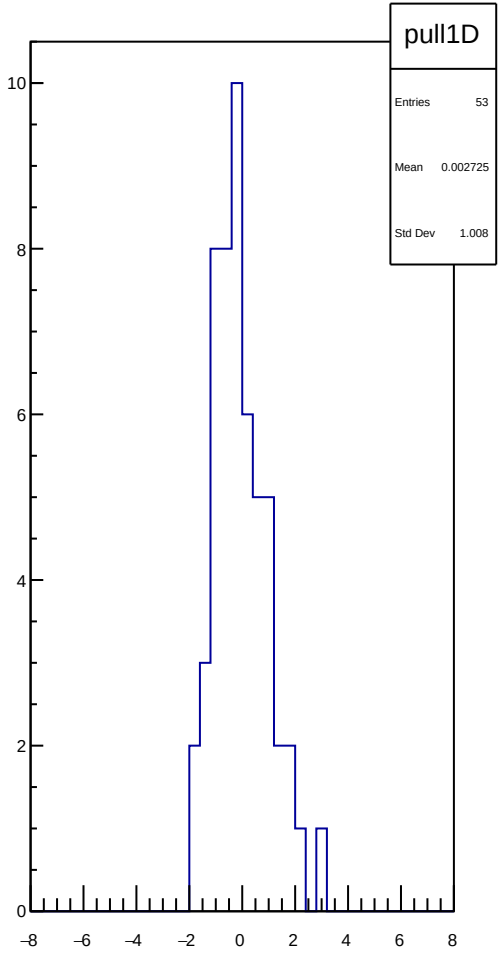
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

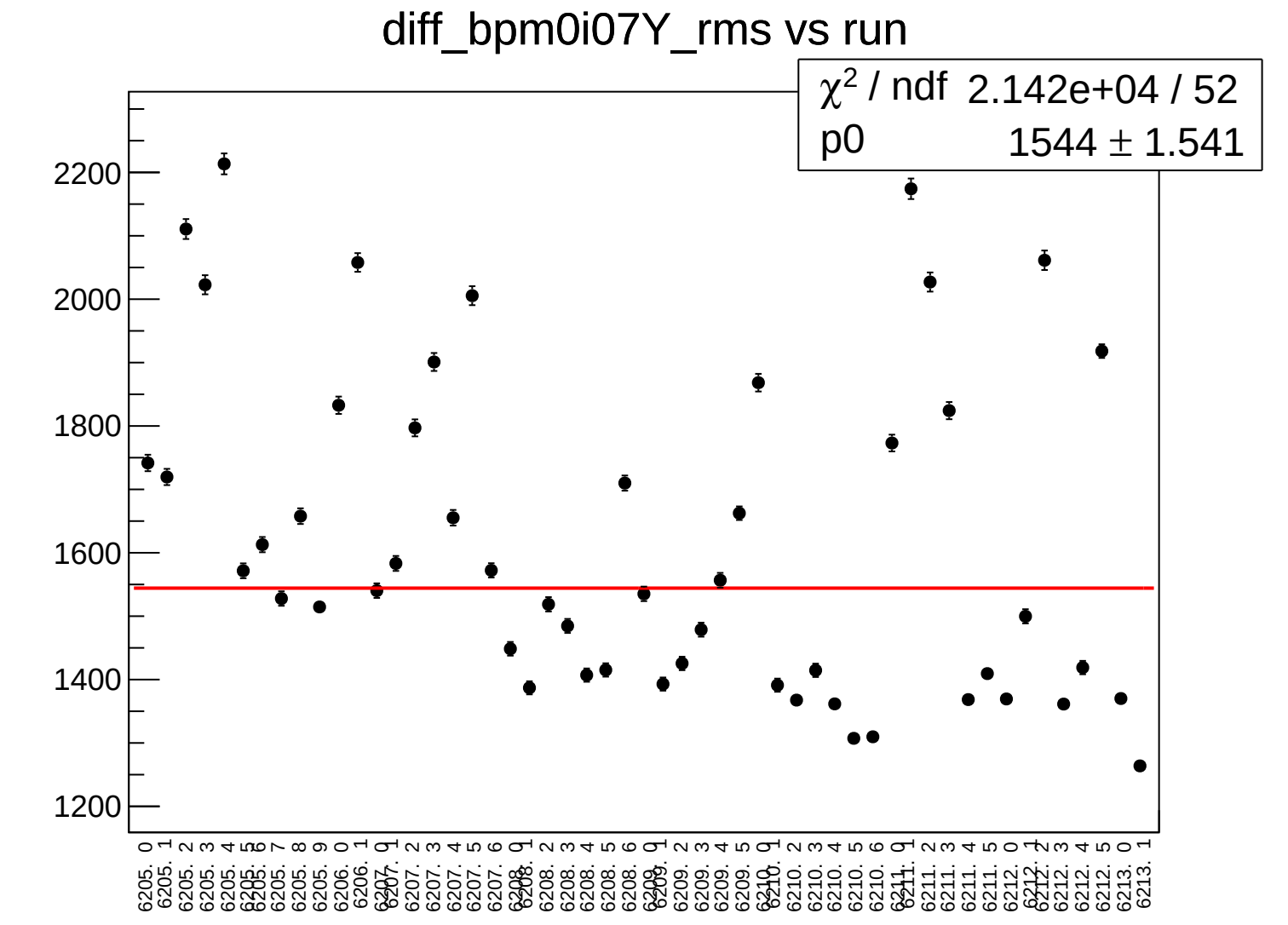

diff_bpm0i07X_mean vs run
χ² / ndf 51.24 / 52
p0 36.43 ± 2.589
150
100
50
0
−50
pull
Entries 53
Mean −177.9
Std Dev 202.4
2
1
0
−1
−2

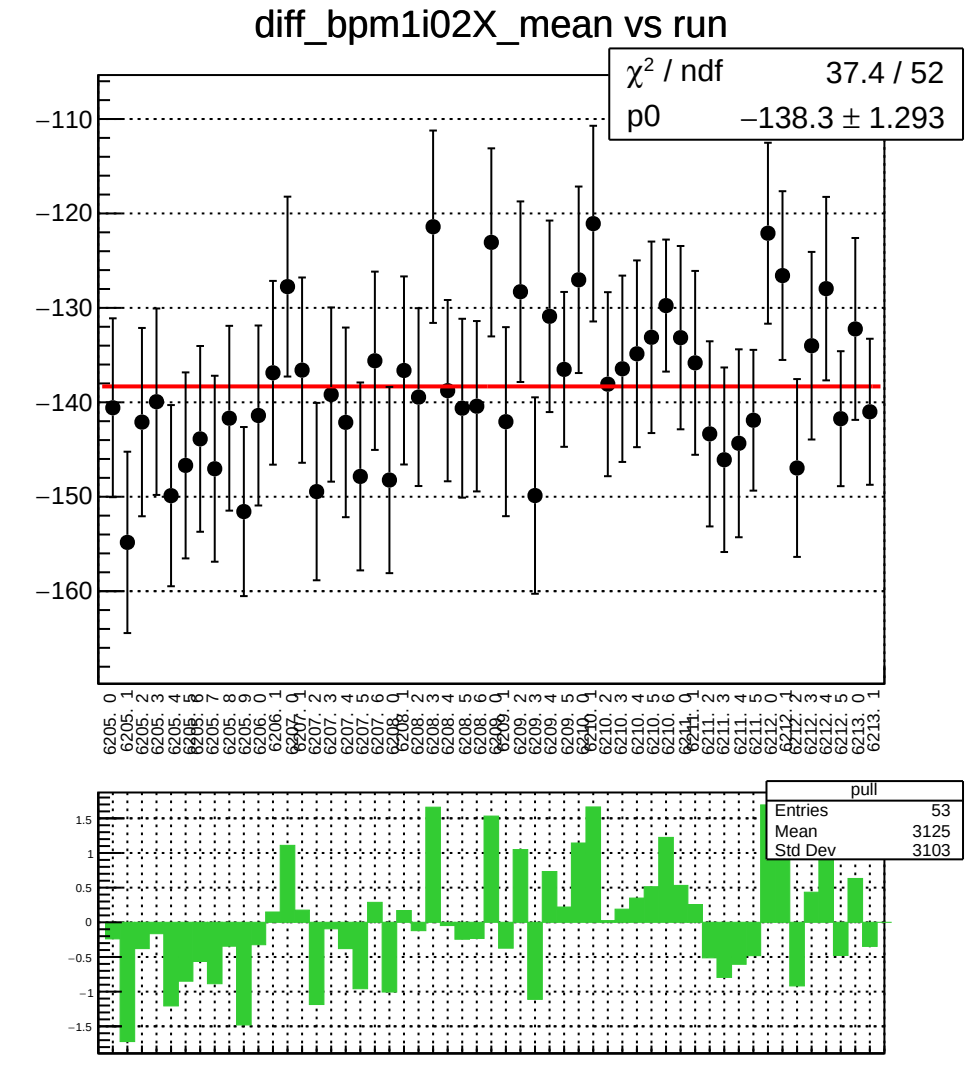

pull1D
Entries 53
Mean 0.01547
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

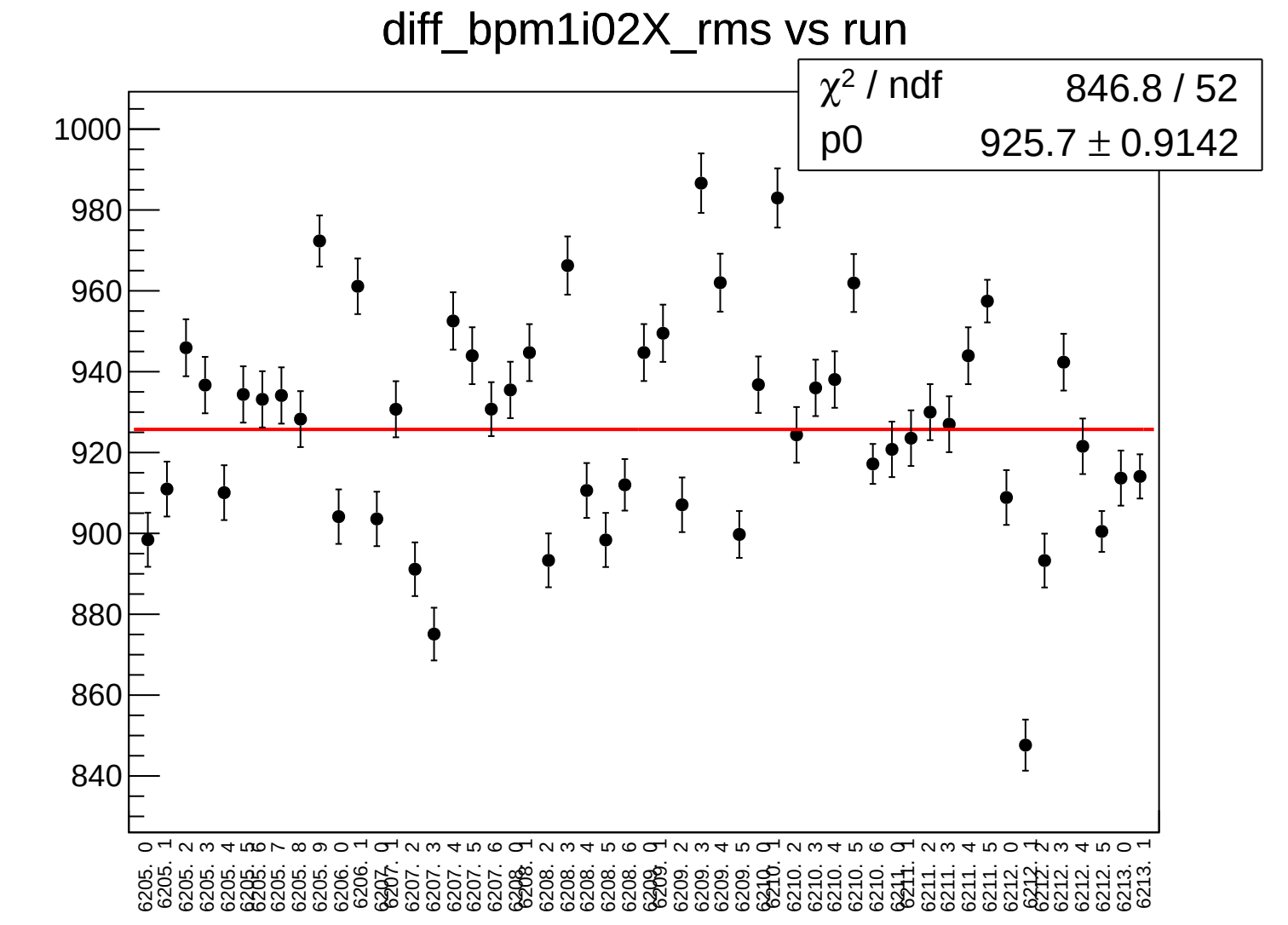

diff_bpm0i07X_rms vs run
χ² / ndf 7.969e+04 / 52
p0 1781 ± 1.831
4000
3500
3000
2500
2000
1500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

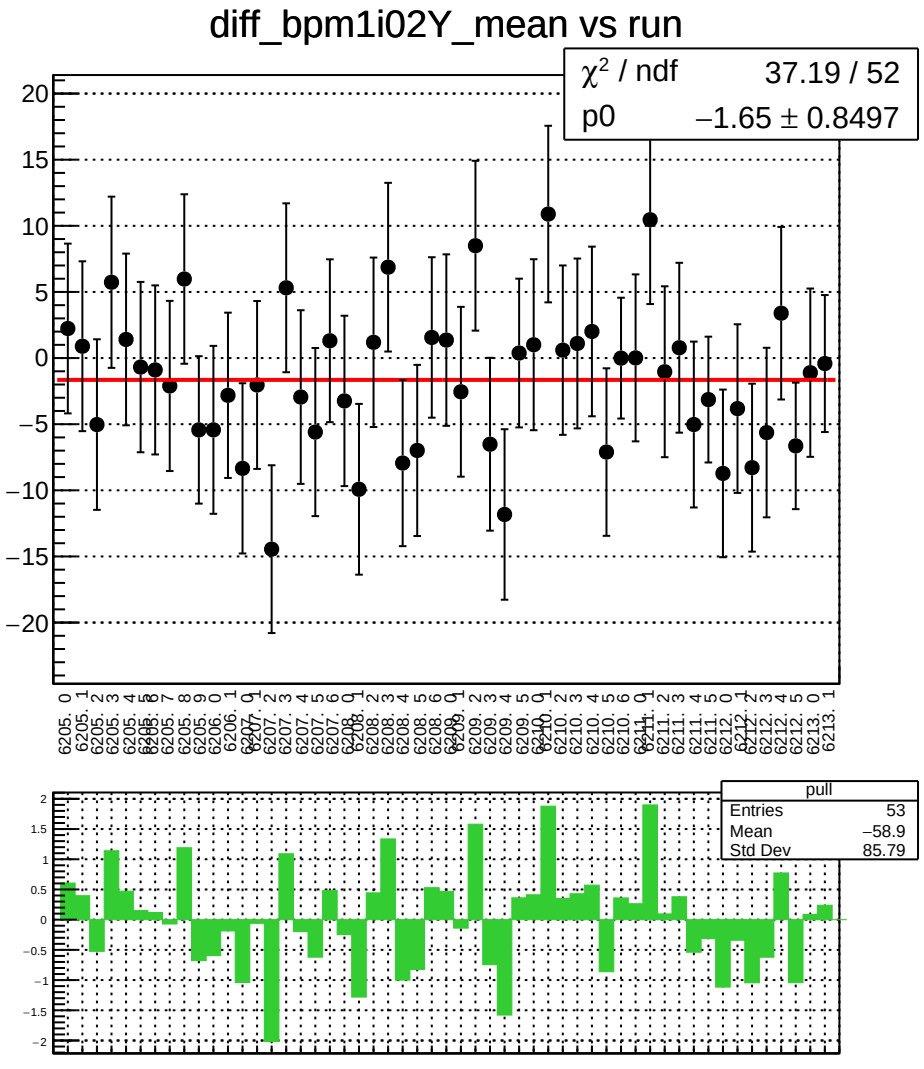

diff_bpm0i07Y_mean vs run
χ² / ndf 53.88 / 52
p0 9.15 ± 2.179
pull
Entries 53
Mean 15.48
Std Dev 49.17

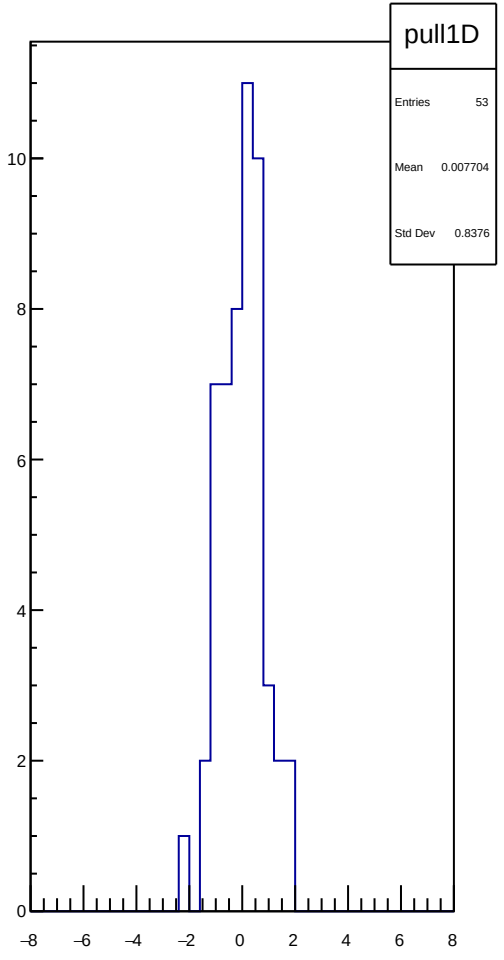

pull1D
Entries 53
Mean 0.002725
Std Dev 1.008

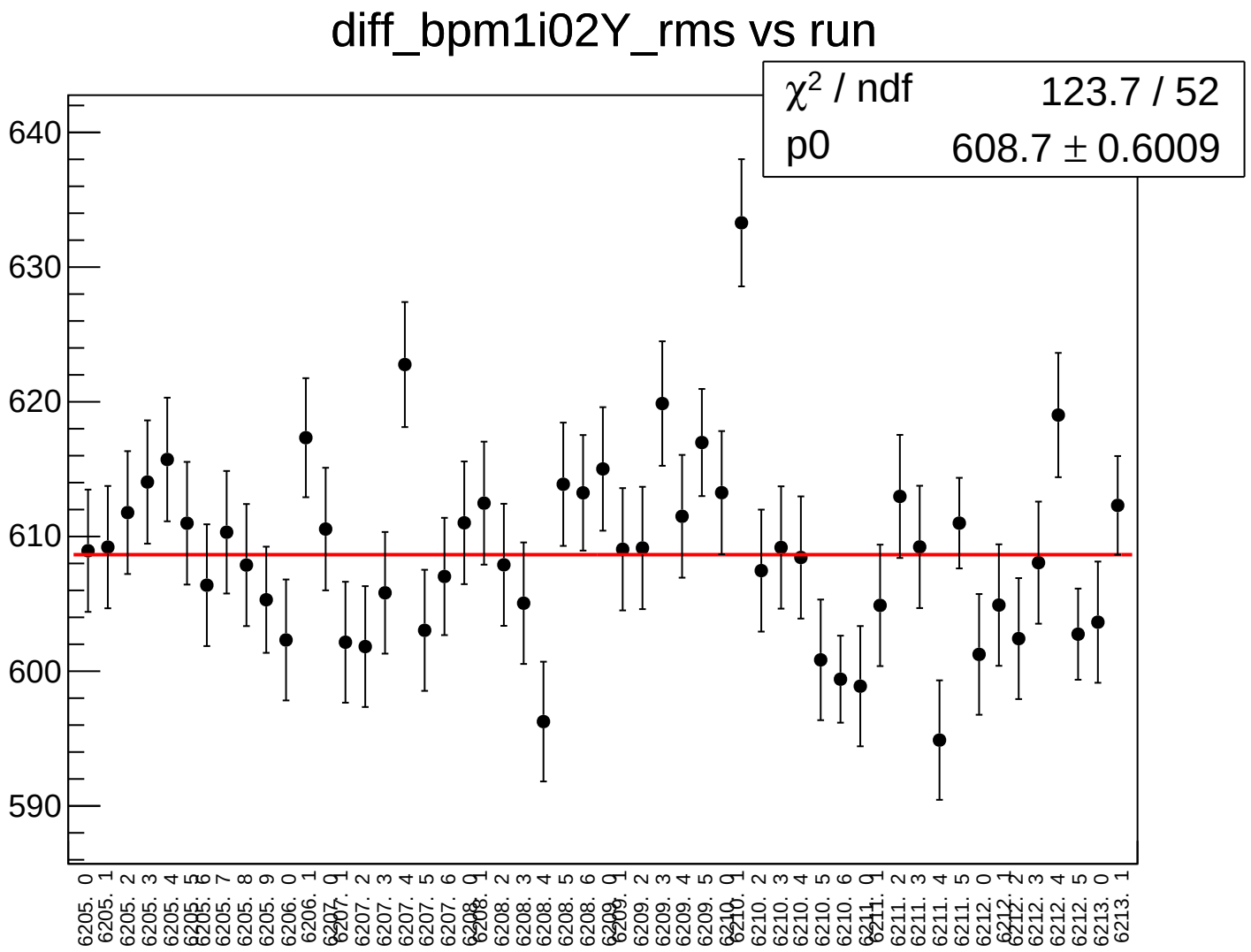

diff_bpm0i07Y_rms vs run
χ² / ndf 2.142e+04 / 52
p0 1544 ± 1.541
2200
2000
1800
1600
1400
1200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

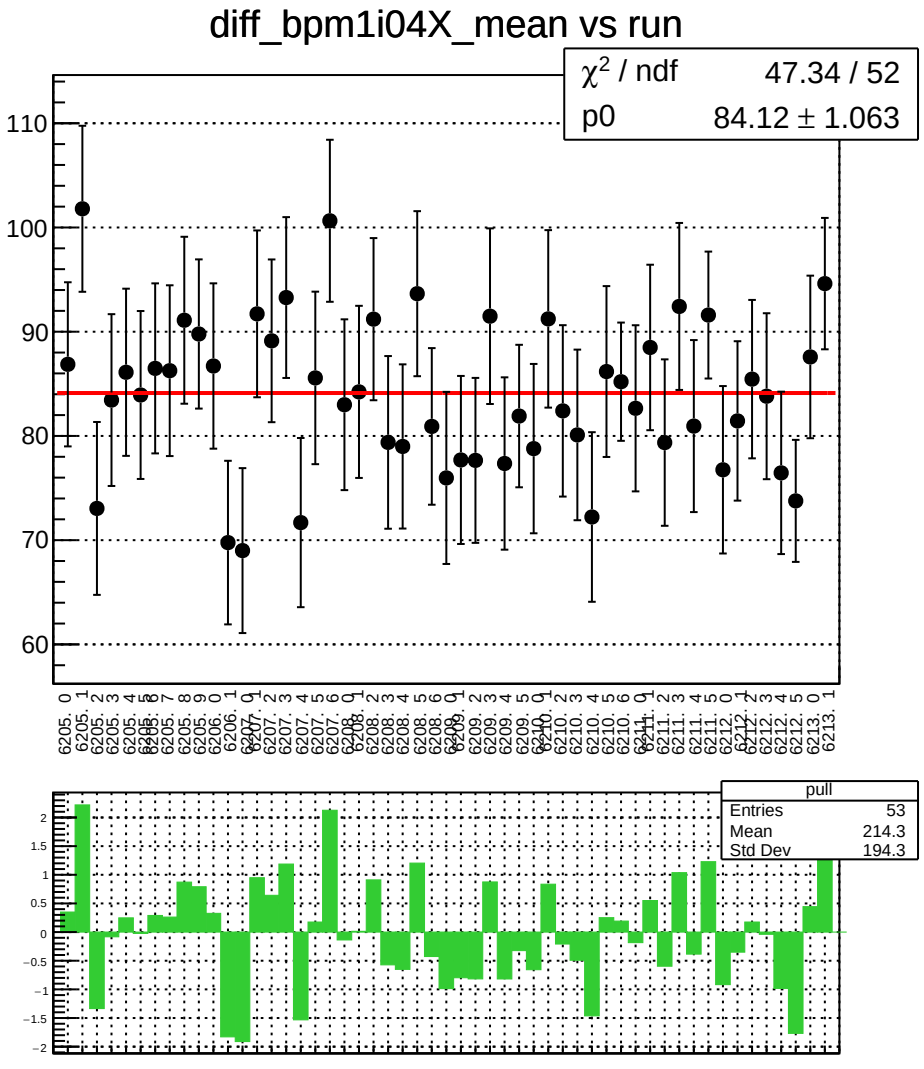

diff_bpm1i02X_mean vs run
χ² / ndf 37.4 / 52
p0 −138.3 ± 1.293
−110
−120
−130
−140
−150
−160
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1
pull
Entries 53
Mean 3125
Std Dev 3103
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 53
Mean 0.001605
Std Dev 0.84
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

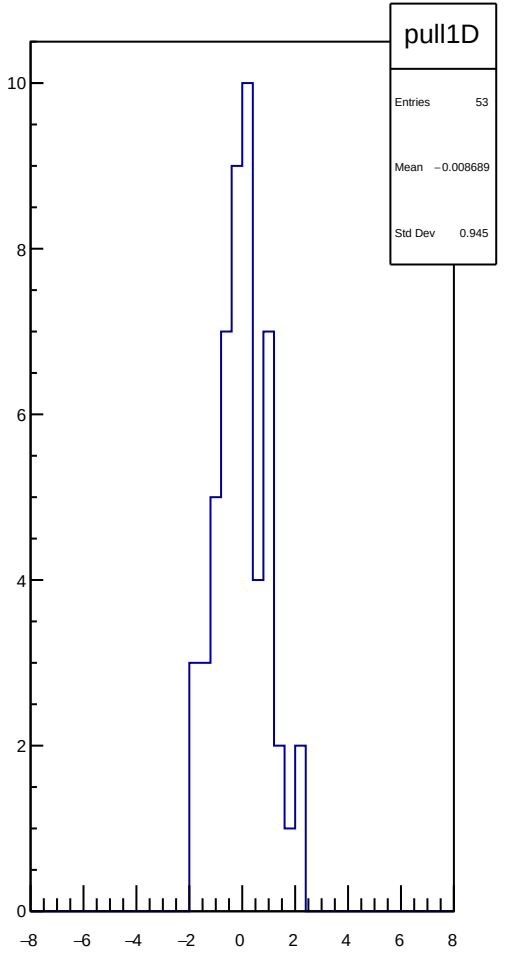

diff_bpm1i02X_rms vs run
χ² / ndf 846.8 / 52
p0 925.7 ± 0.9142
1000
980
960
940
920
900
880
860
840
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

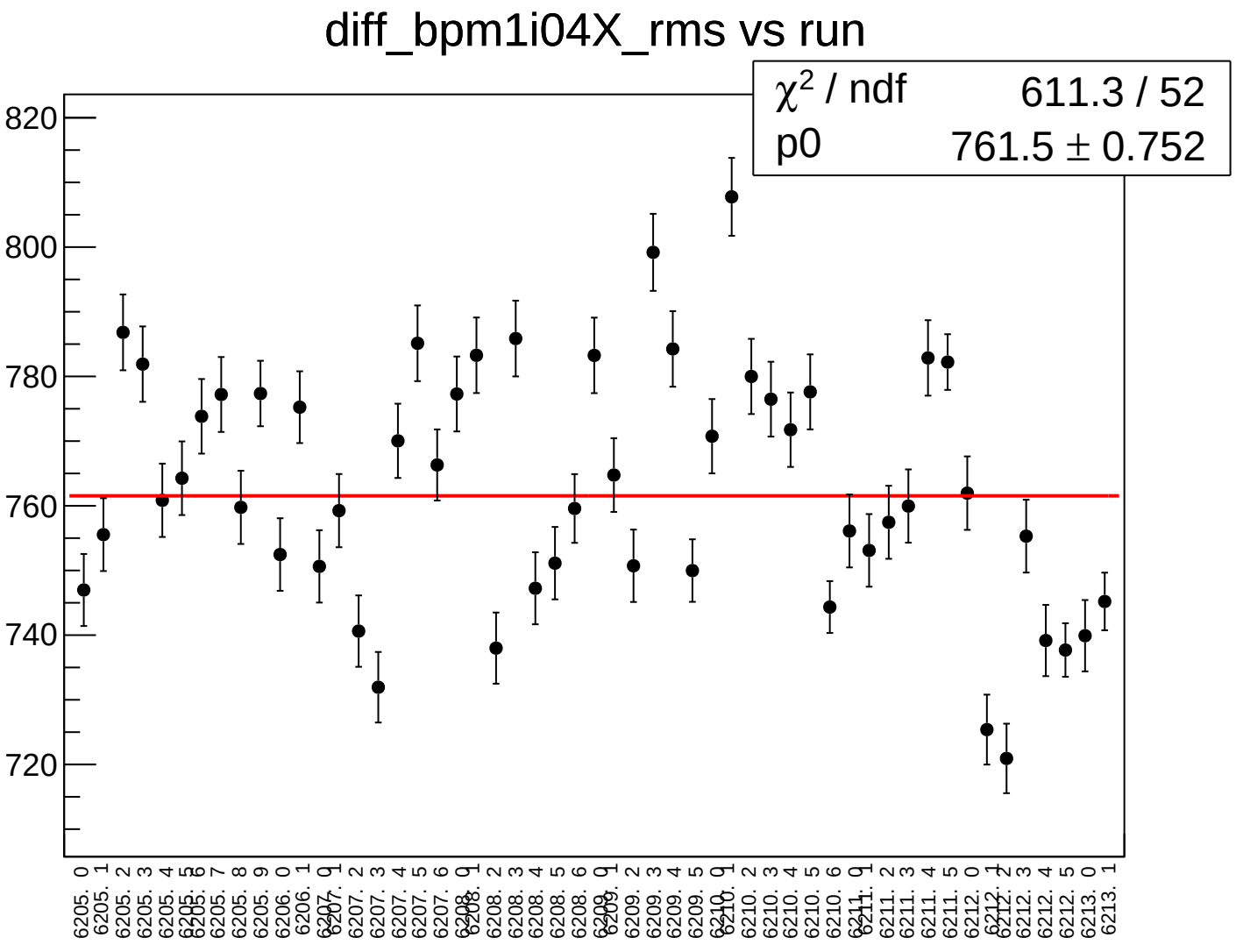

diff_bpm1i02Y_mean vs run
χ² / ndf 37.19 / 52
p0 −1.65 ± 0.8497
pull
Entries 53
Mean −58.9
Std Dev 85.79

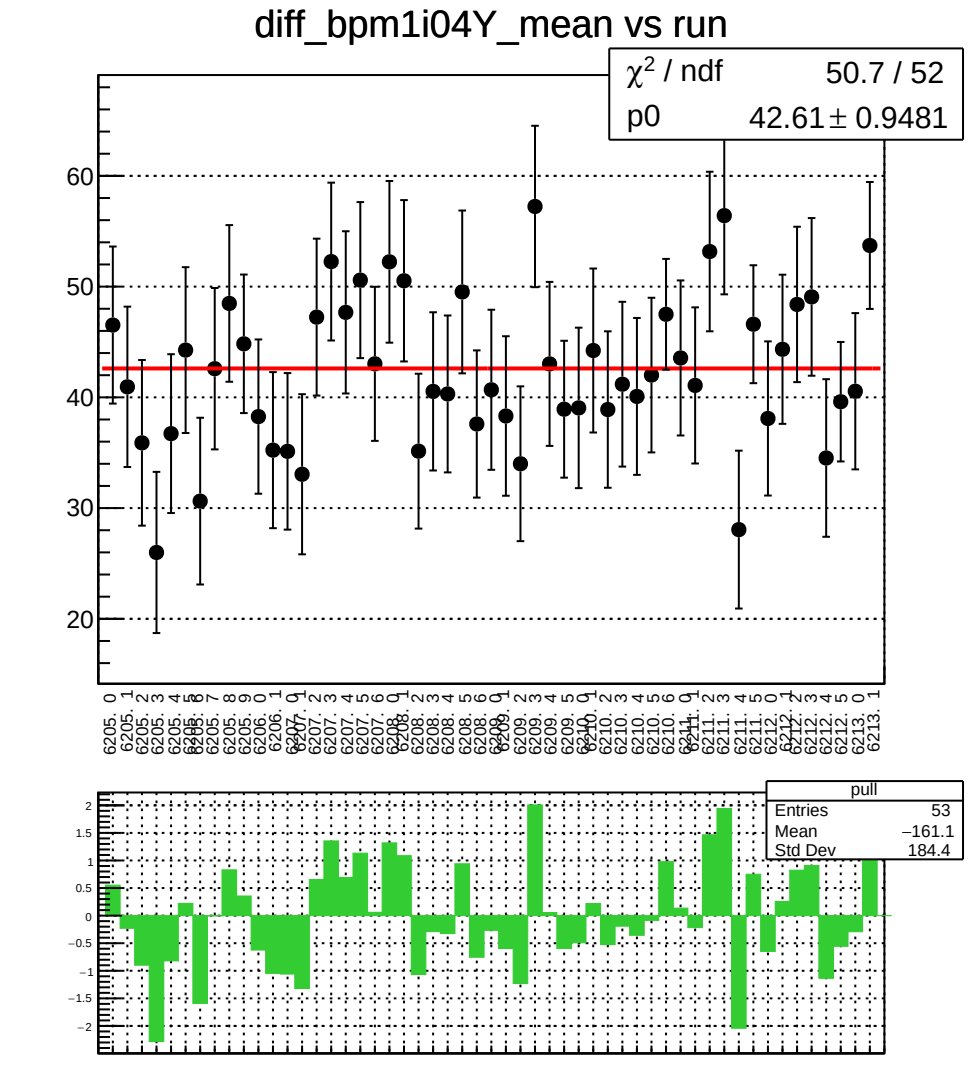

pull1D
Entries 53
Mean 0.007704
Std Dev 0.8376

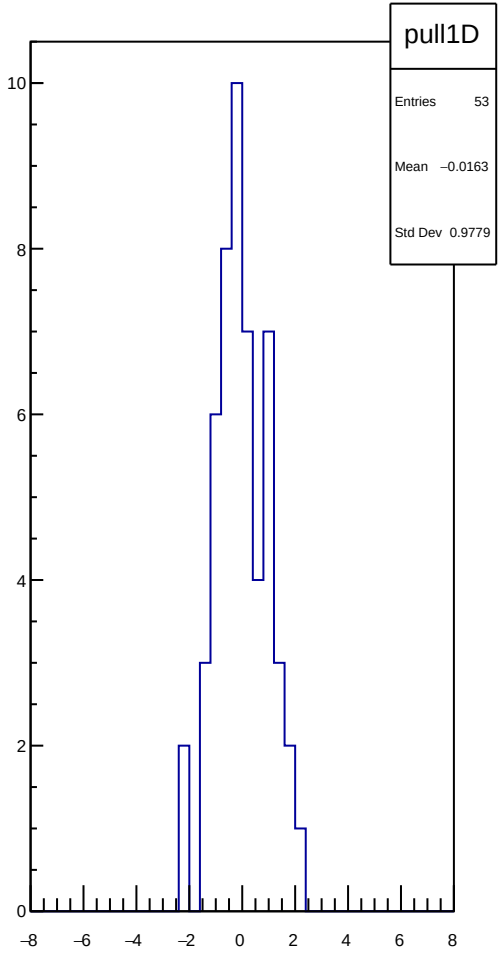

diff_bpm1i02Y_rms vs run
χ² / ndf 123.7 / 52
p0 608.7 ± 0.6009
640
630
620
610
600
590
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

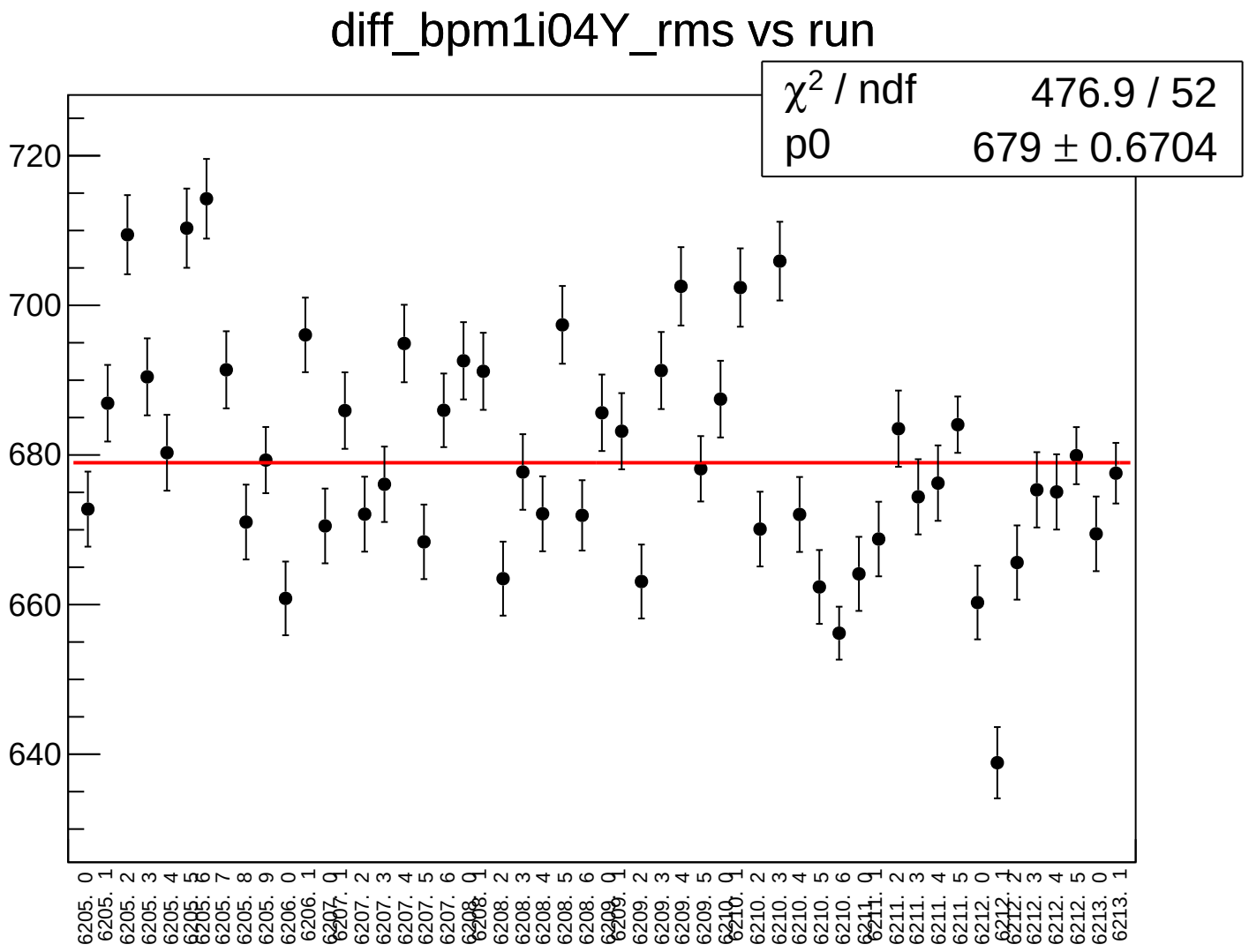

diff_bpm1i04X_mean vs run
χ^2 / ndf 47.34 / 52
p0 84.12 ± 1.063
pull
Entries 53
Mean 214.3
Std Dev 194.3

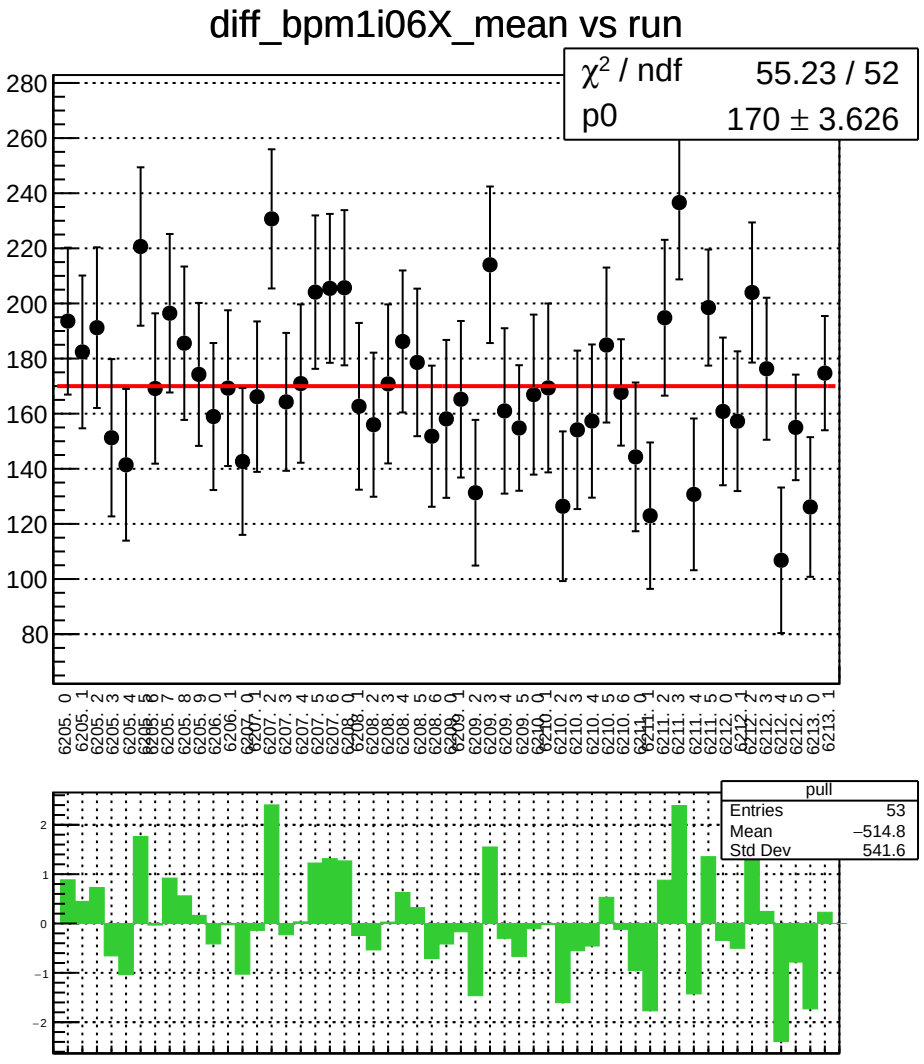

pull1D
Entries 53
Mean −0.008689
Std Dev 0.945

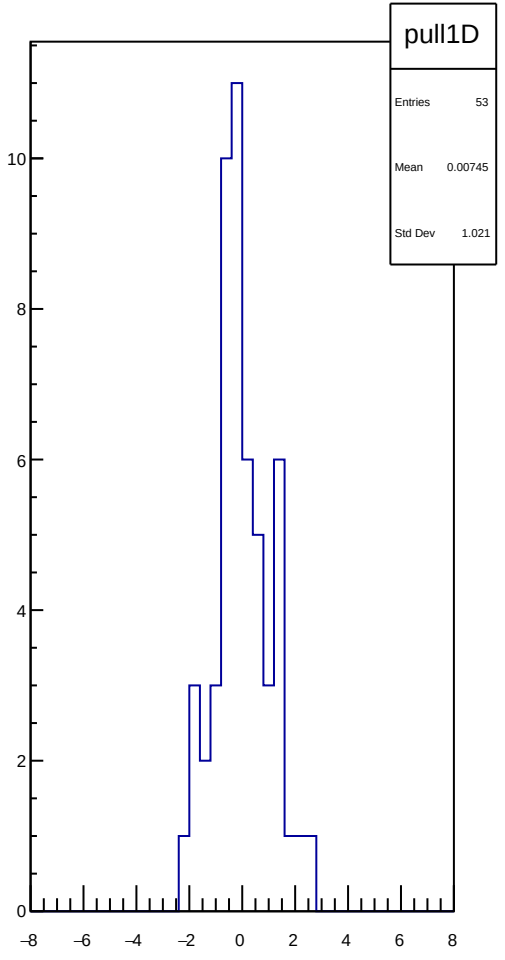

diff_bpm1i04X_rms vs run
χ² / ndf 611.3 / 52
p0 761.5 ± 0.752
820
800
780
760
740
720
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

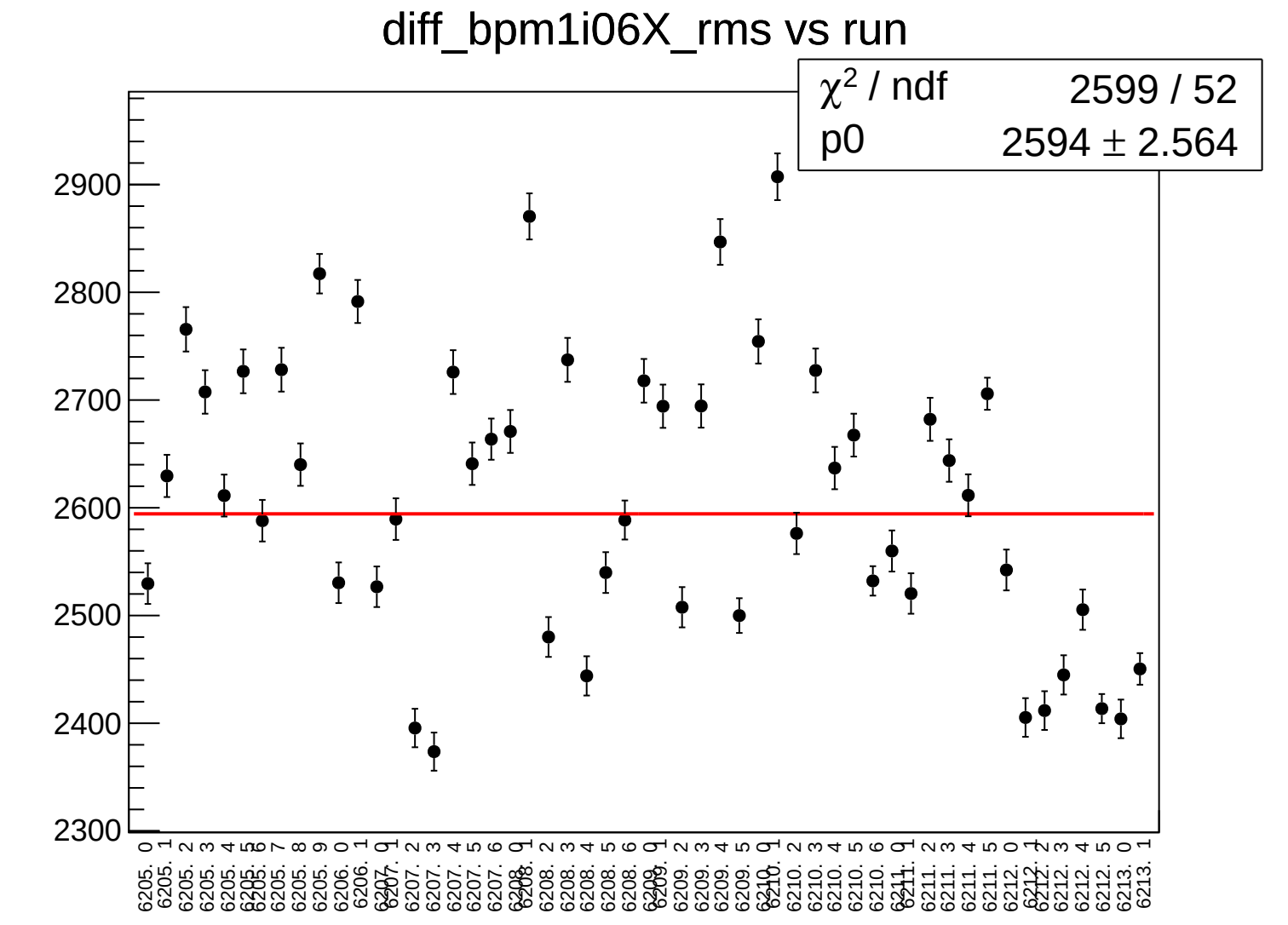

diff_bpm1i04Y_mean vs run
χ² / ndf 50.7 / 52
p0 42.61 ± 0.9481
pull
Entries 53
Mean −161.1
Std Dev 184.4

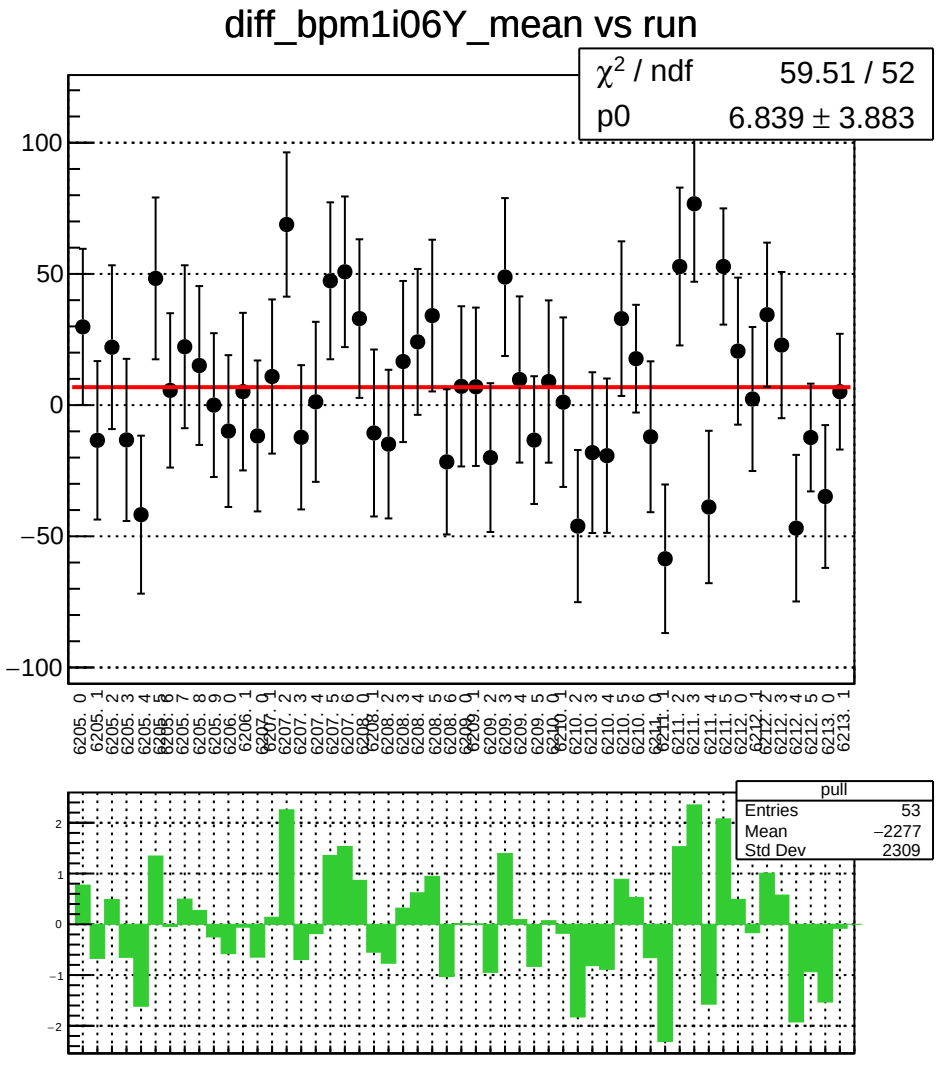

pull1D
Entries 53
Mean −0.0163
Std Dev 0.9779

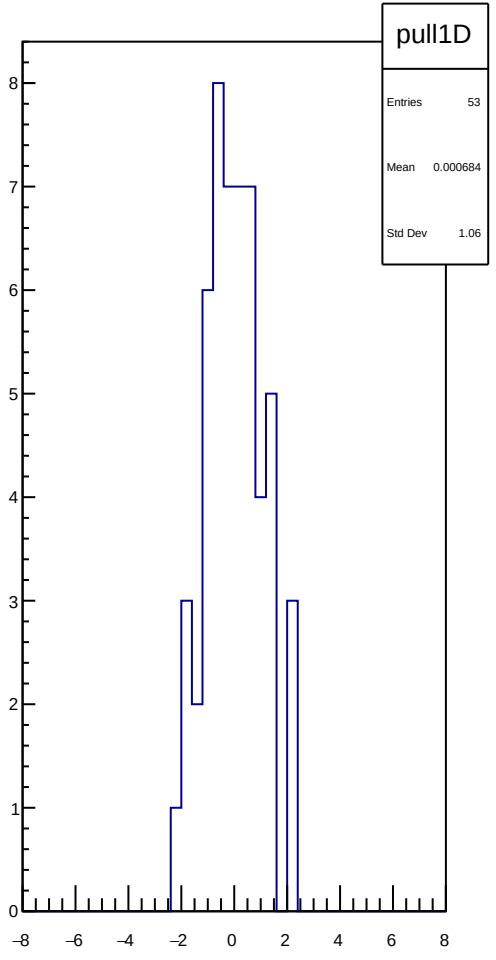

diff_bpm1i04Y_rms vs run
χ² / ndf 476.9 / 52
p0 679 ± 0.6704
720
700
680
660
640
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6212. 6
6212. 7
6212. 8
6212. 9
6213. 0
6213. 1

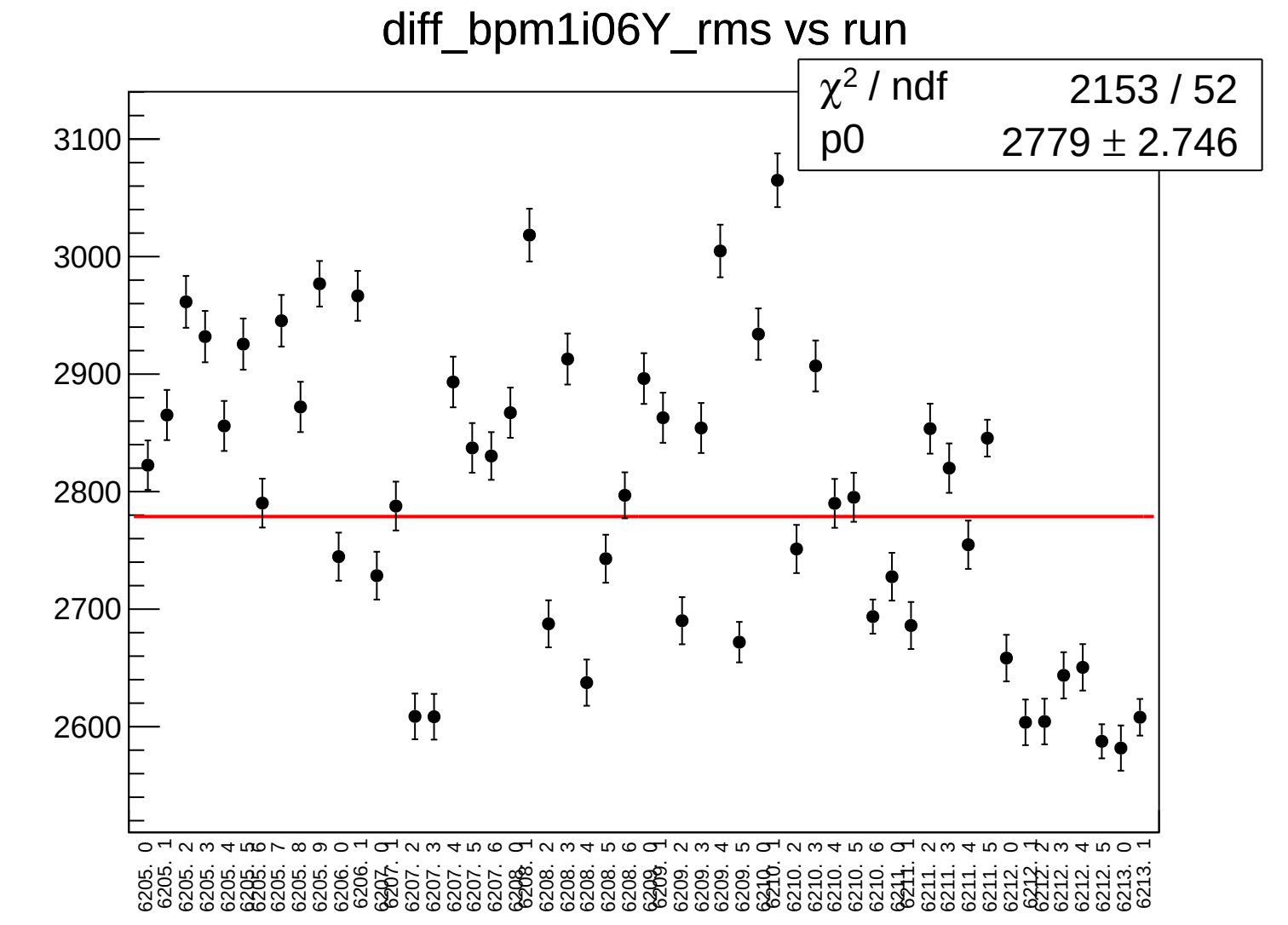

diff_bpm1i06X_mean vs run
χ² / ndf 55.23 / 52
p0 170 ± 3.626
pull
Entries 53
Mean −514.8
Std Dev 541.6


pull1D
Entries 53
Mean 0.00745
Std Dev 1.021


diff_bpm1i06X_rms vs run
χ² / ndf 2599 / 52
p0 2594 ± 2.564
2900
2800
2700
2600
2500
2400
2300
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


diff_bpm1i06Y_mean vs run
χ² / ndf 59.51 / 52
p0 6.839 ± 3.883
100
50
0
−50
−100
pull
Entries 53
Mean −2277
Std Dev 2309
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.000684
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1i06Y_rms vs run
χ² / ndf 2153 / 52
p0 2779 ± 2.746
3100
3000
2900
2800
2700
2600
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
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6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
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6212. 4
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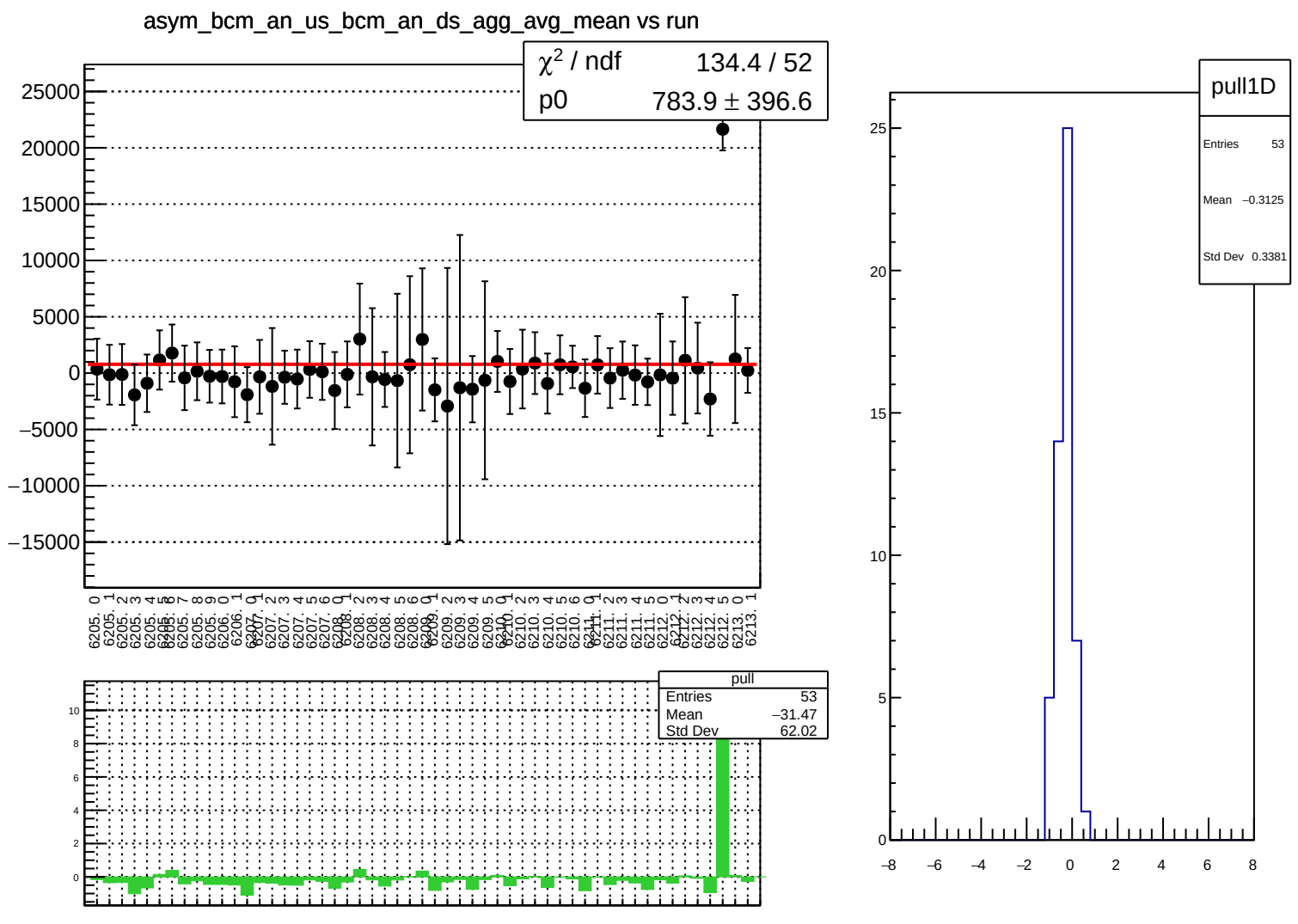
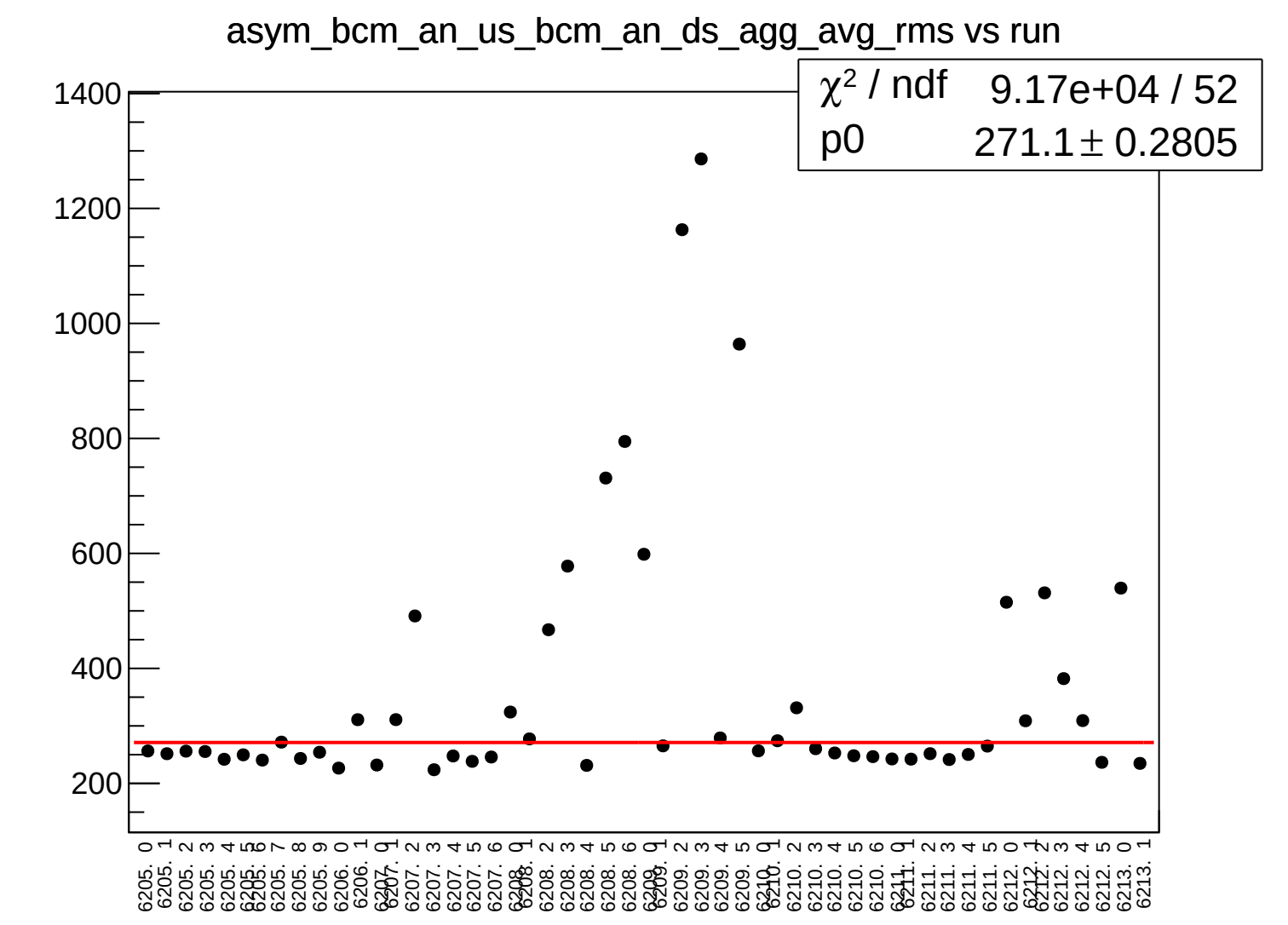
6213. 1


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 134.4 / 52
p0 783.9 ± 396.6
pull
Entries 53
Mean −31.47
Std Dev 62.02
pull1D
Entries 53
Mean −0.3125
Std Dev 0.3381


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.17e+04 / 52
p0 271.1 ± 0.2805
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
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6210. 2
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6210. 4
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6211. 3
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6211. 5
6212. 0
6212. 3
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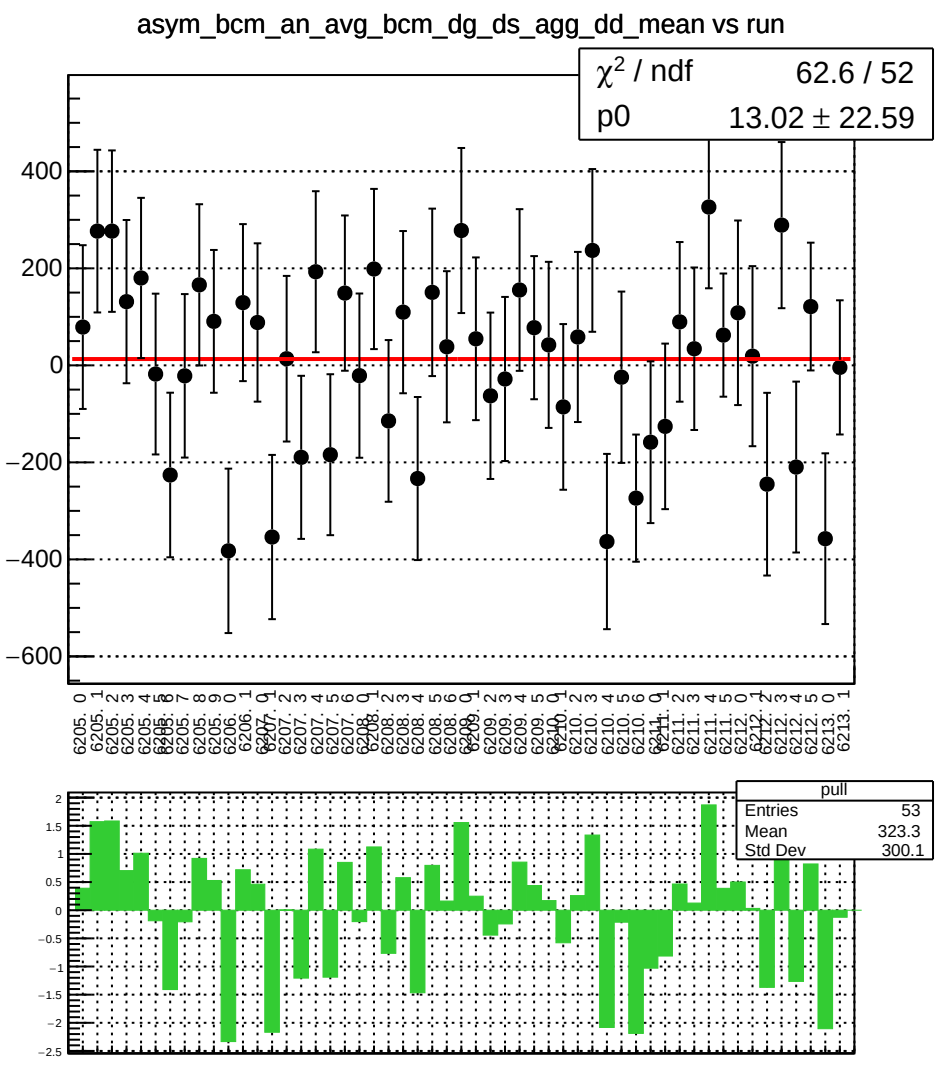
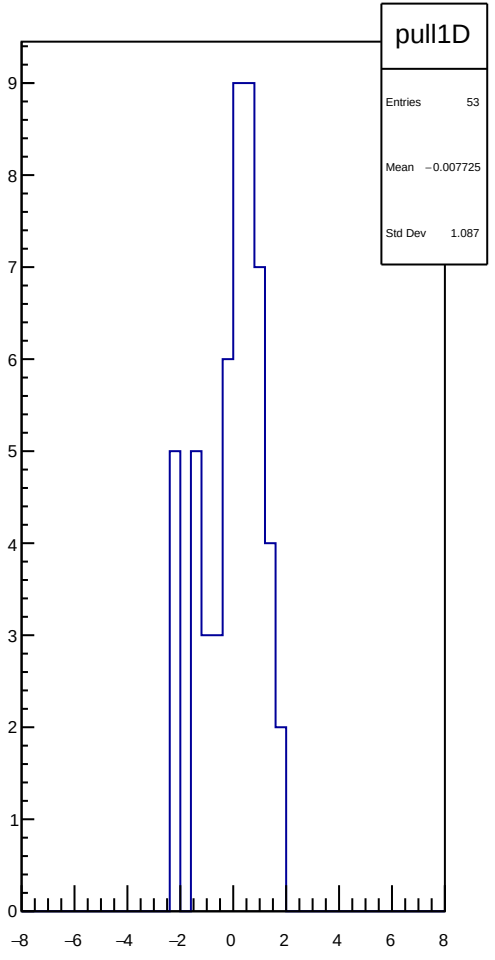
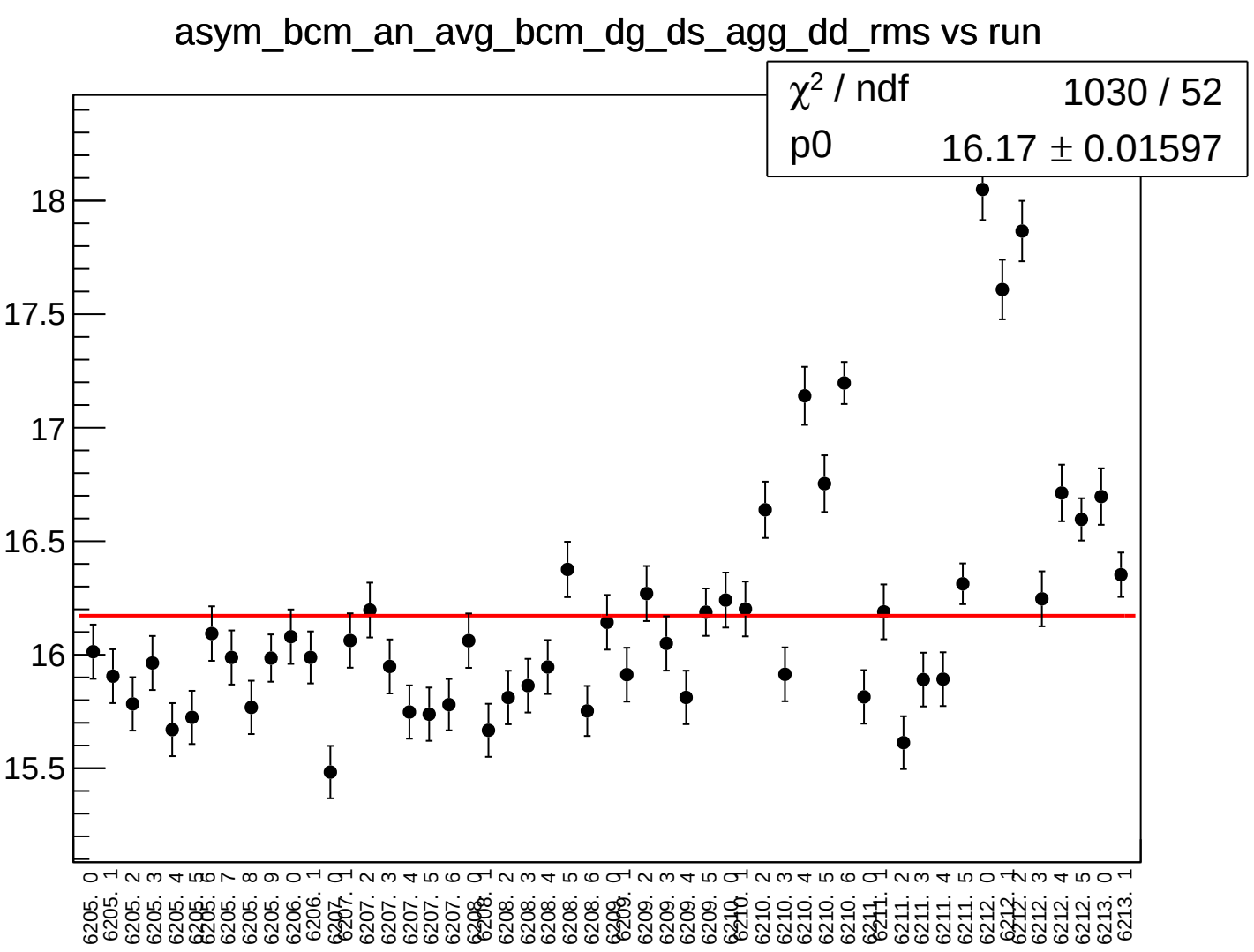
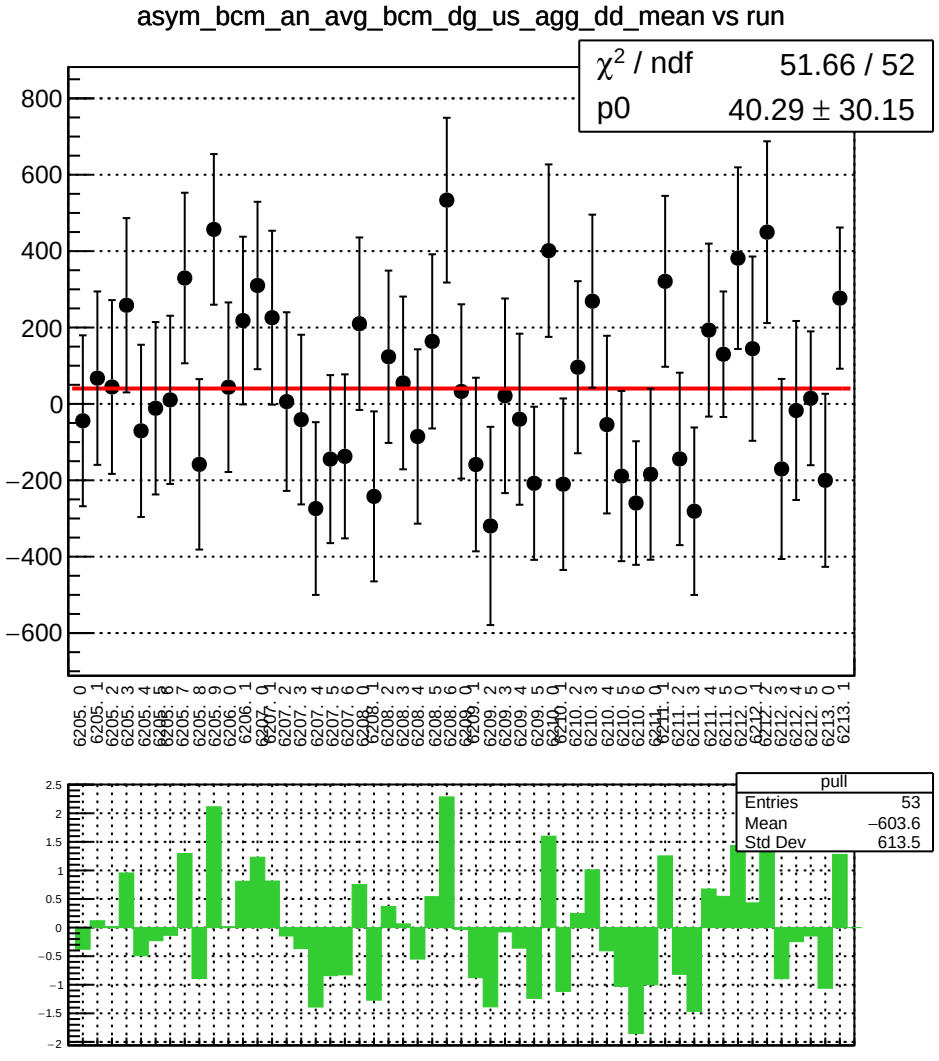
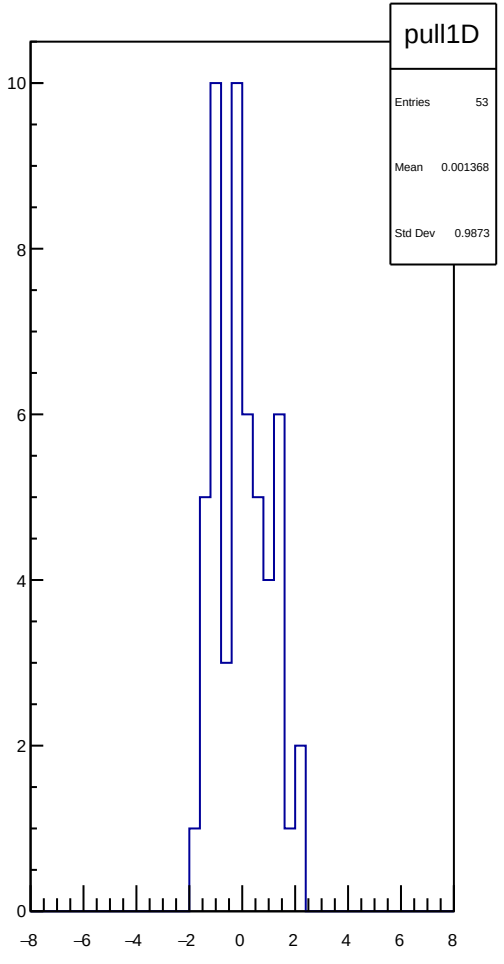
6213. 0
6213. 1

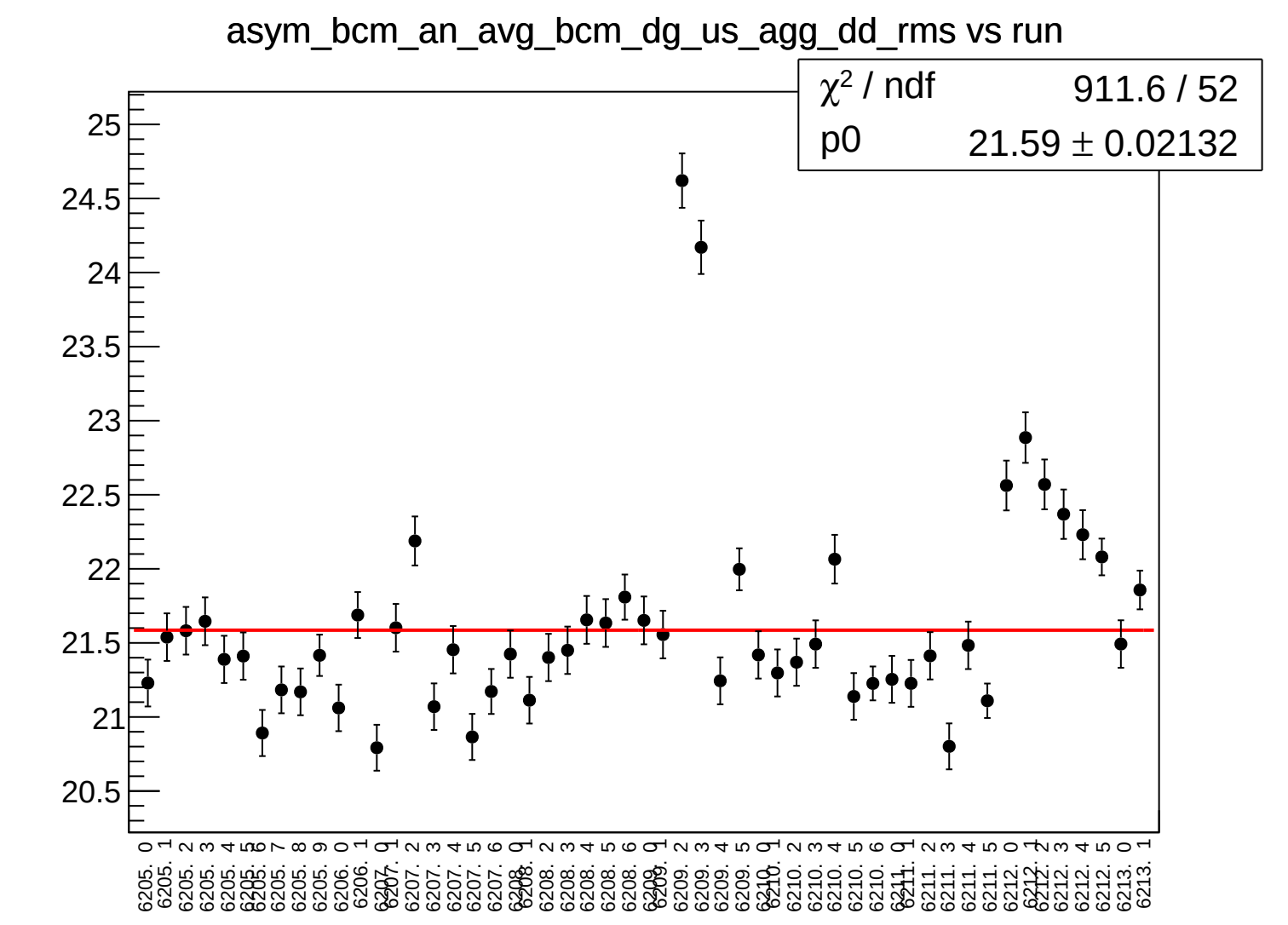

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 62.6 / 52
p0 13.02 ± 22.59
pull
Entries 53
Mean 323.3
Std Dev 300.1

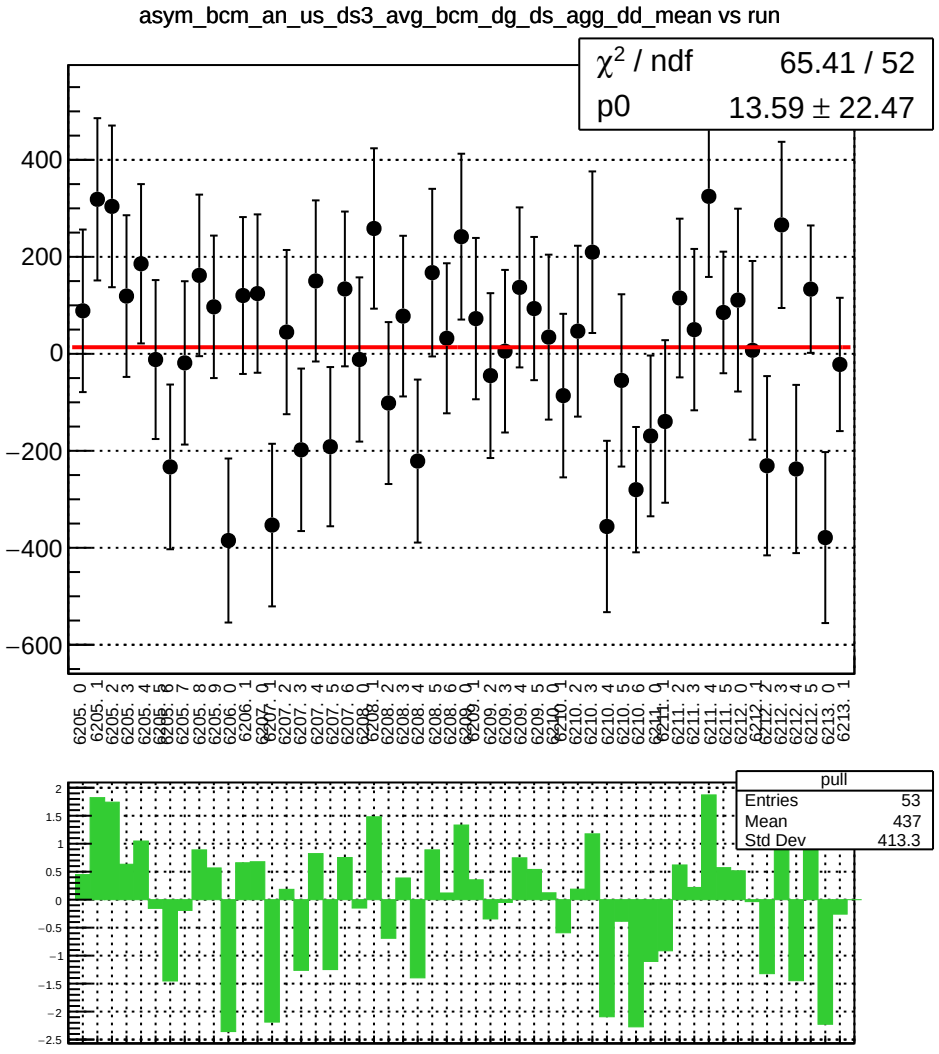

pull1D
Entries 53
Mean −0.007725
Std Dev 1.087

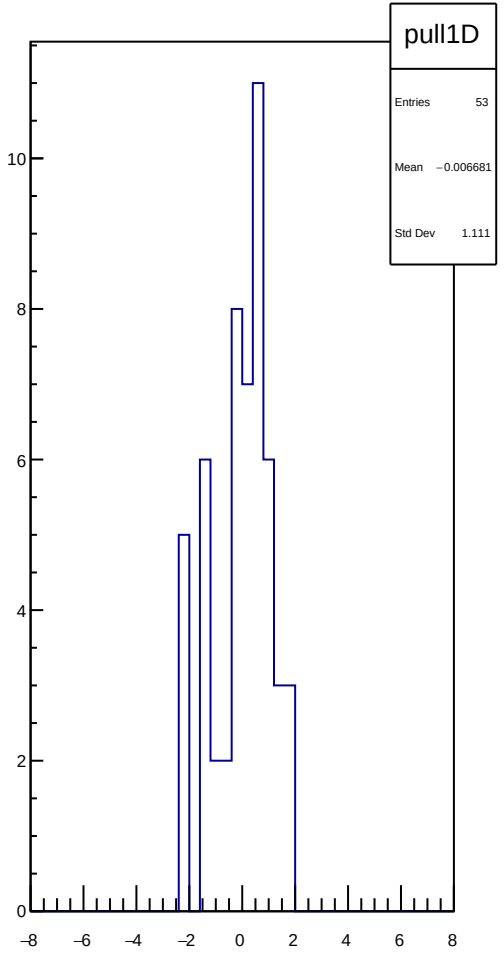

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1030 / 52
p0 16.17 ± 0.01597
18
17.5
17
16.5
16
15.5
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

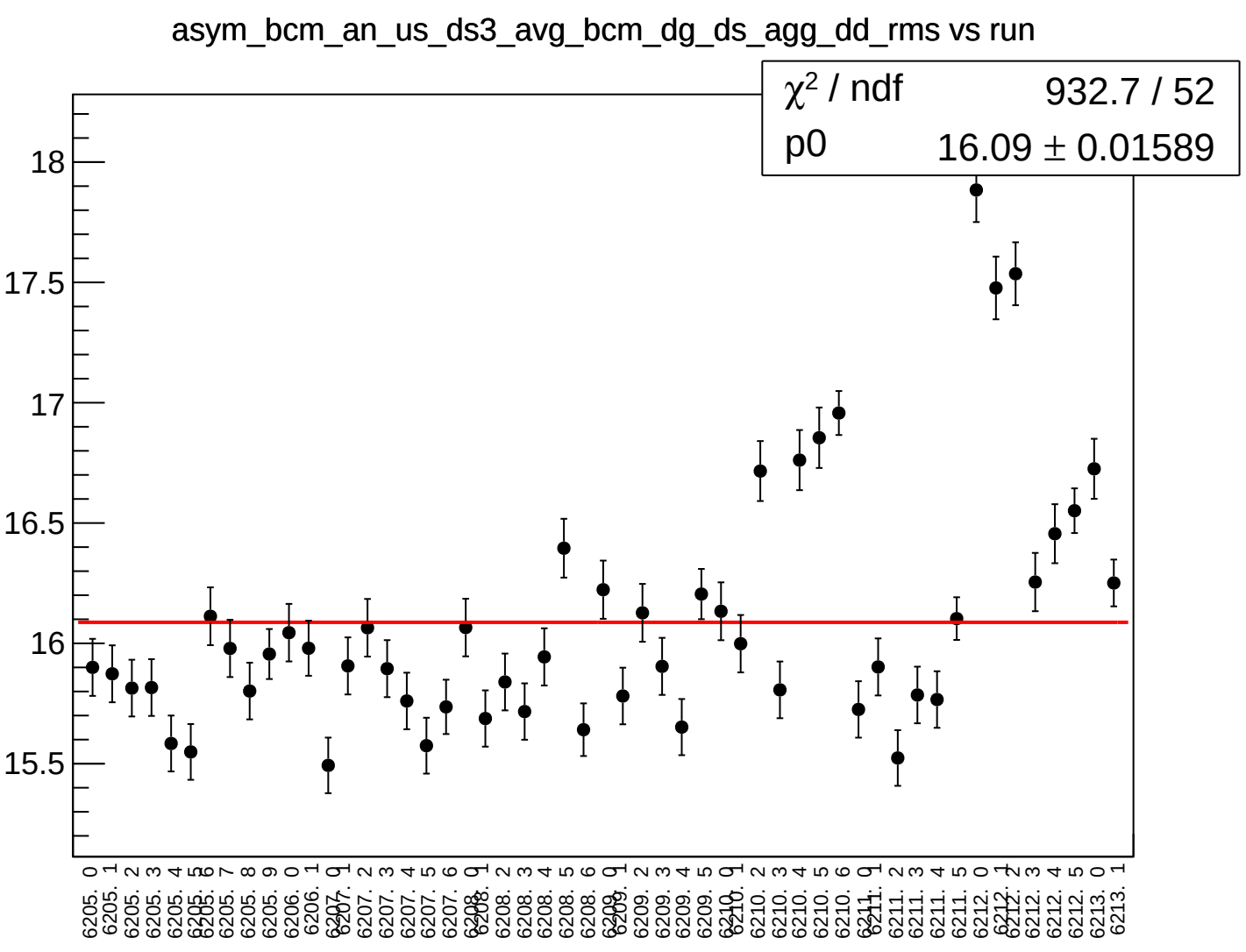

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 51.66 / 52
p0 40.29 ± 30.15
pull
Entries 53
Mean −603.6
Std Dev 613.5

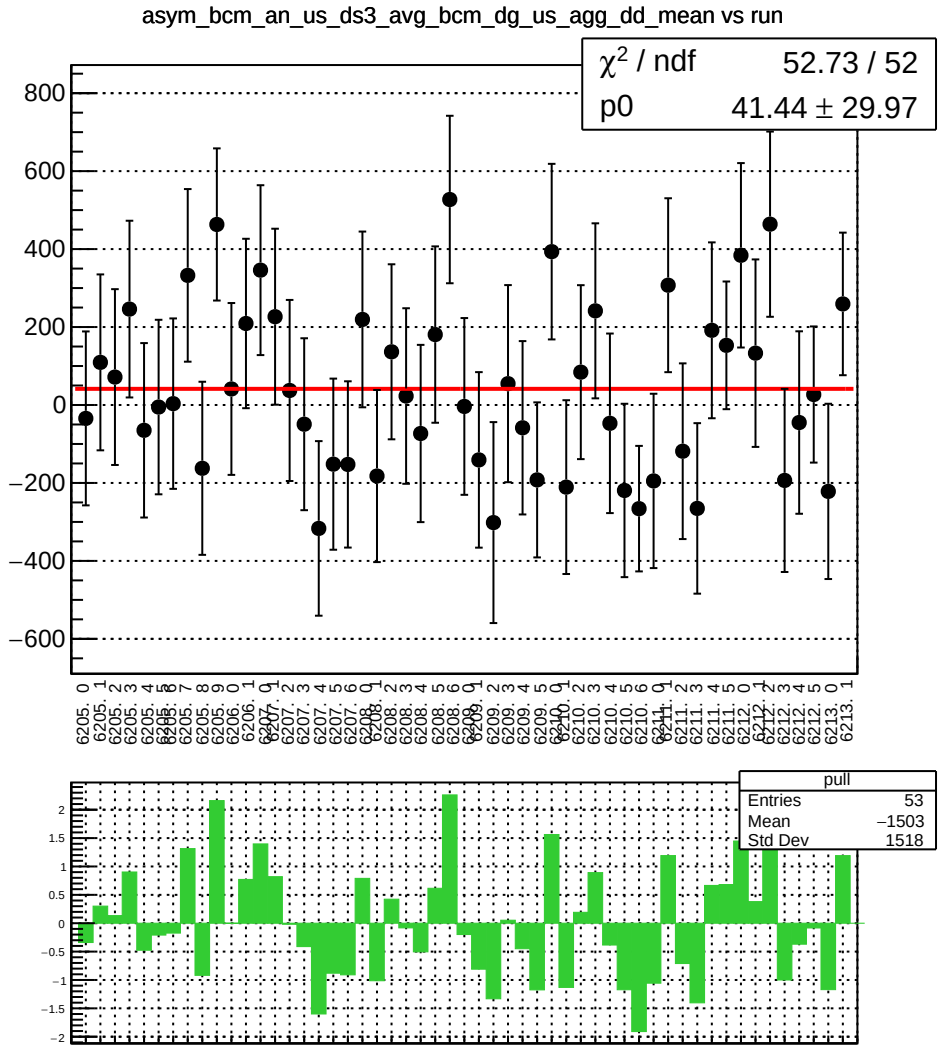

pull1D
Entries 53
Mean 0.001368
Std Dev 0.9873

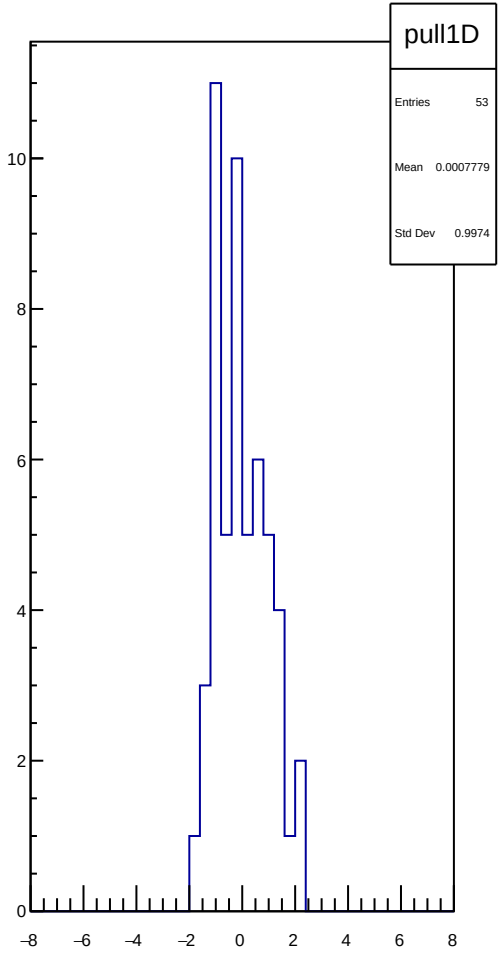

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 911.6 / 52
p0 21.59 ± 0.02132
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

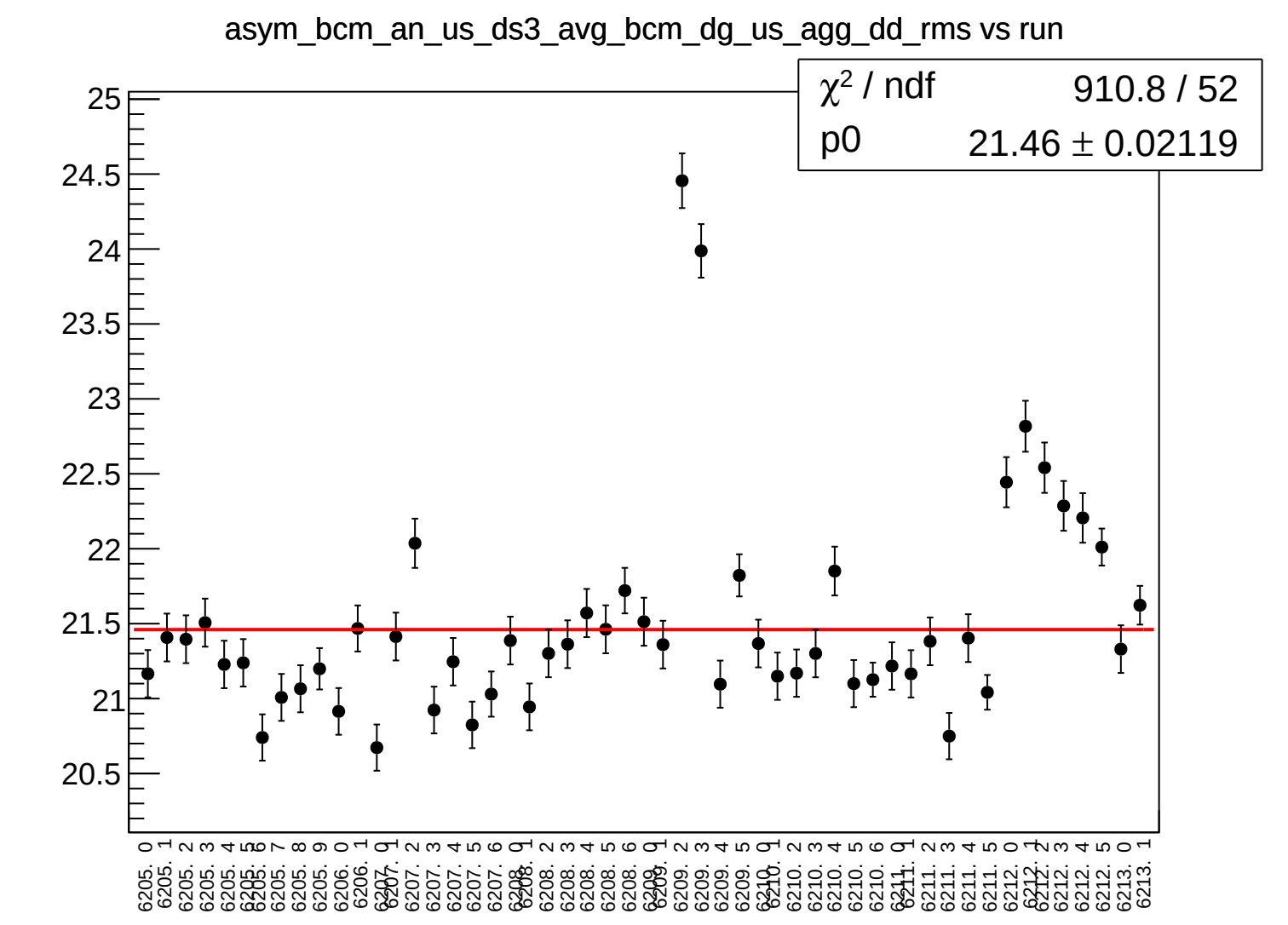

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 65.41 / 52
p0 13.59 ± 22.47
pull
Entries 53
Mean 437
Std Dev 413.3


pull1D
Entries 53
Mean −0.006681
Std Dev 1.111


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 932.7 / 52
p0 16.09 ± 0.01589
18
17.5
17
16.5
16
15.5
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 52.73 / 52
p0 41.44 ± 29.97
pull
Entries 53
Mean −1503
Std Dev 1518


pull1D
Entries 53
Mean 0.0007779
Std Dev 0.9974


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 910.8 / 52
p0 21.46 ± 0.02119
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
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6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
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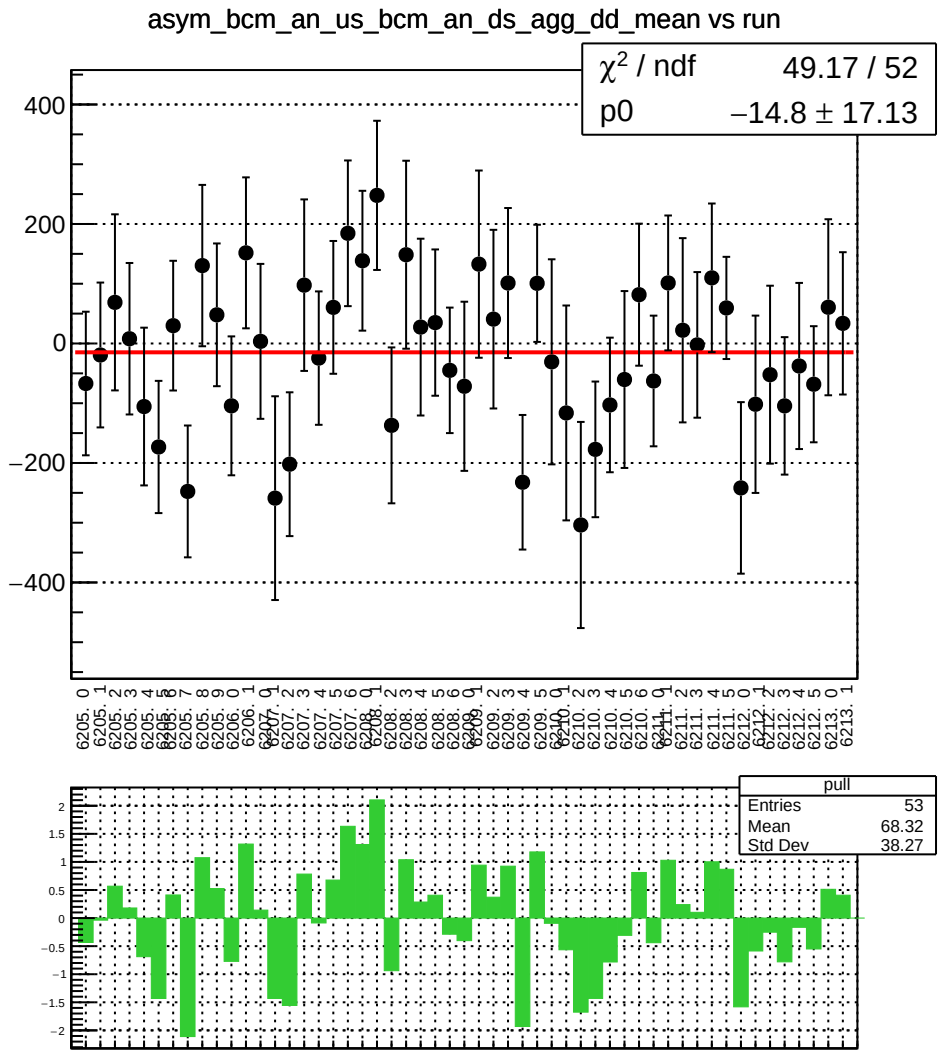
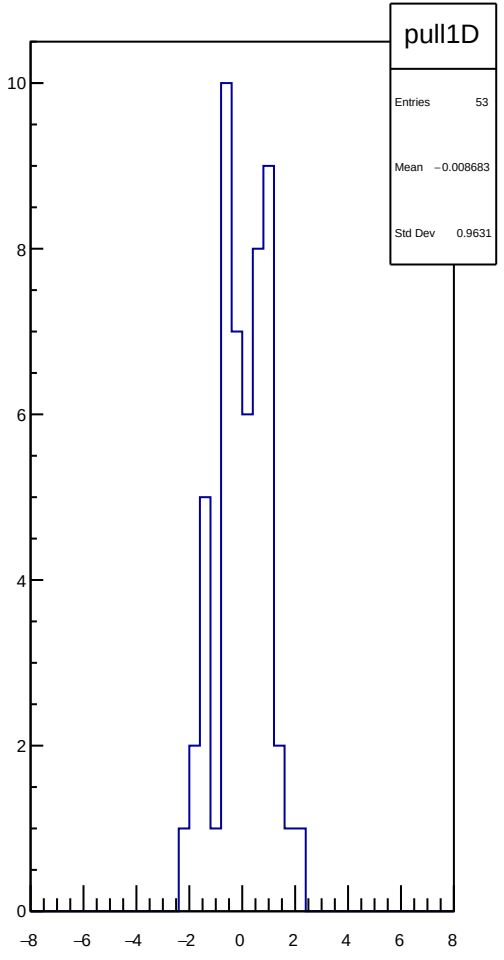
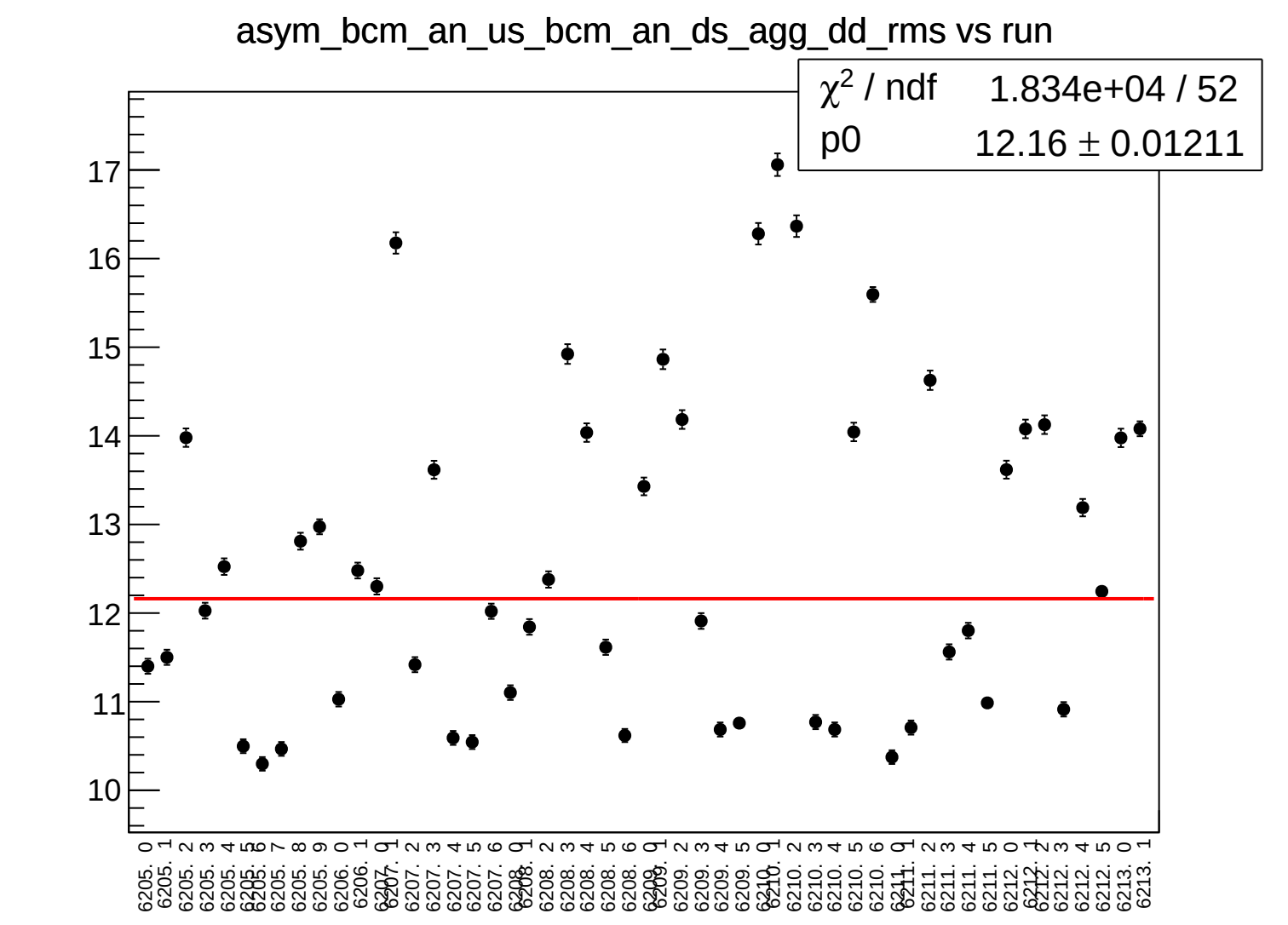
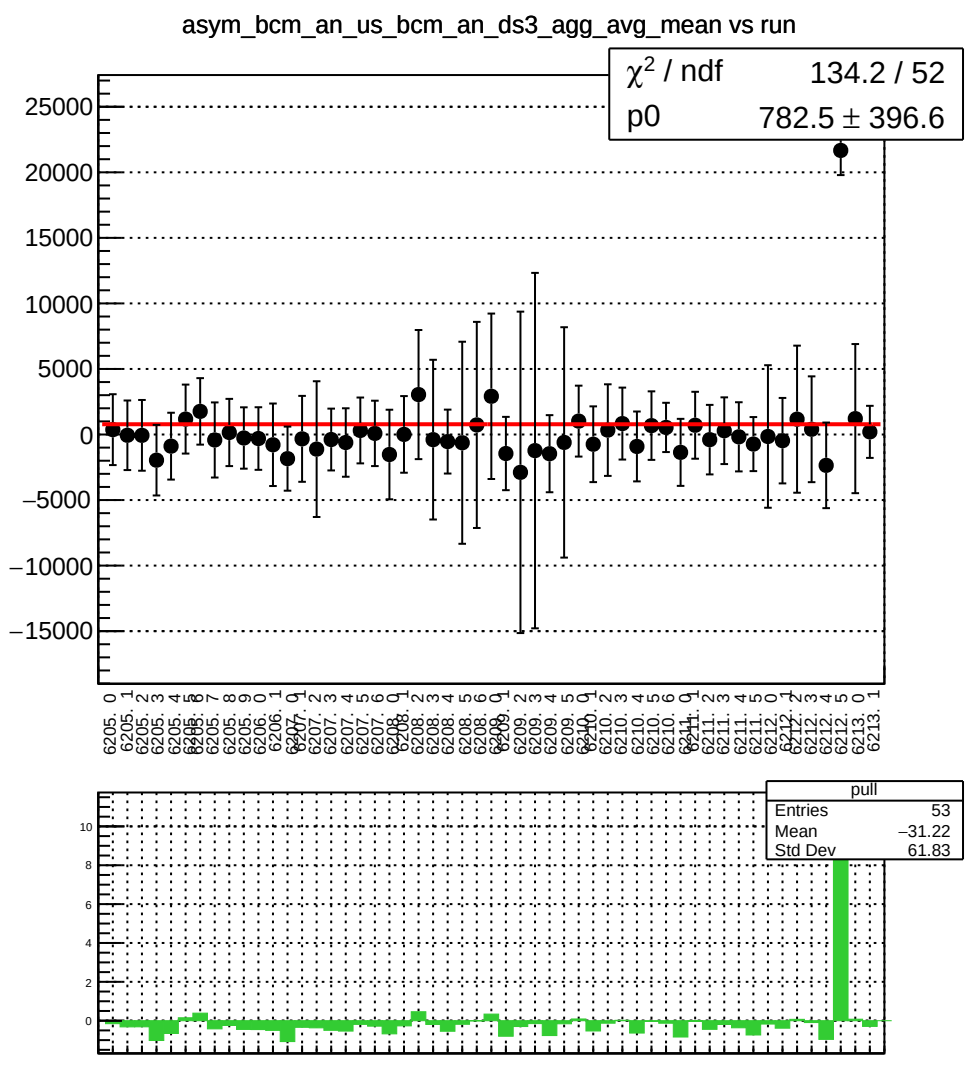
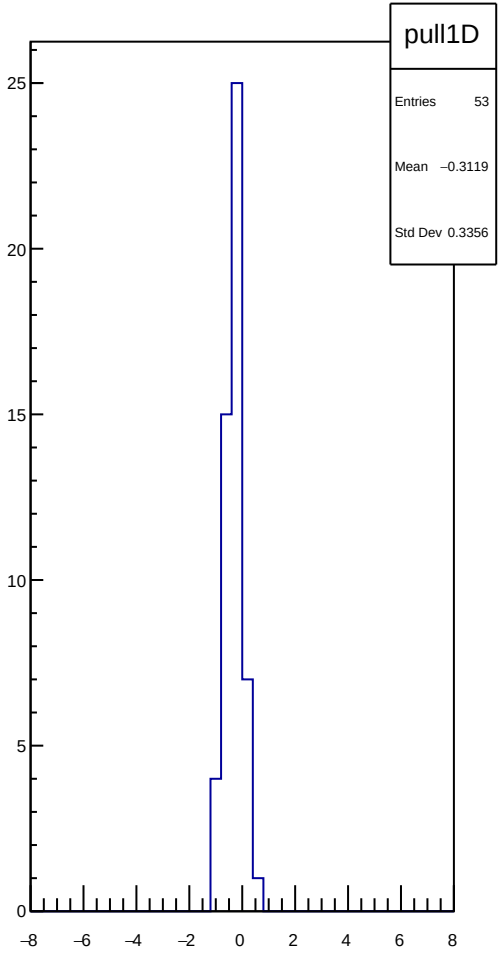
6211. 5
6212. 0
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

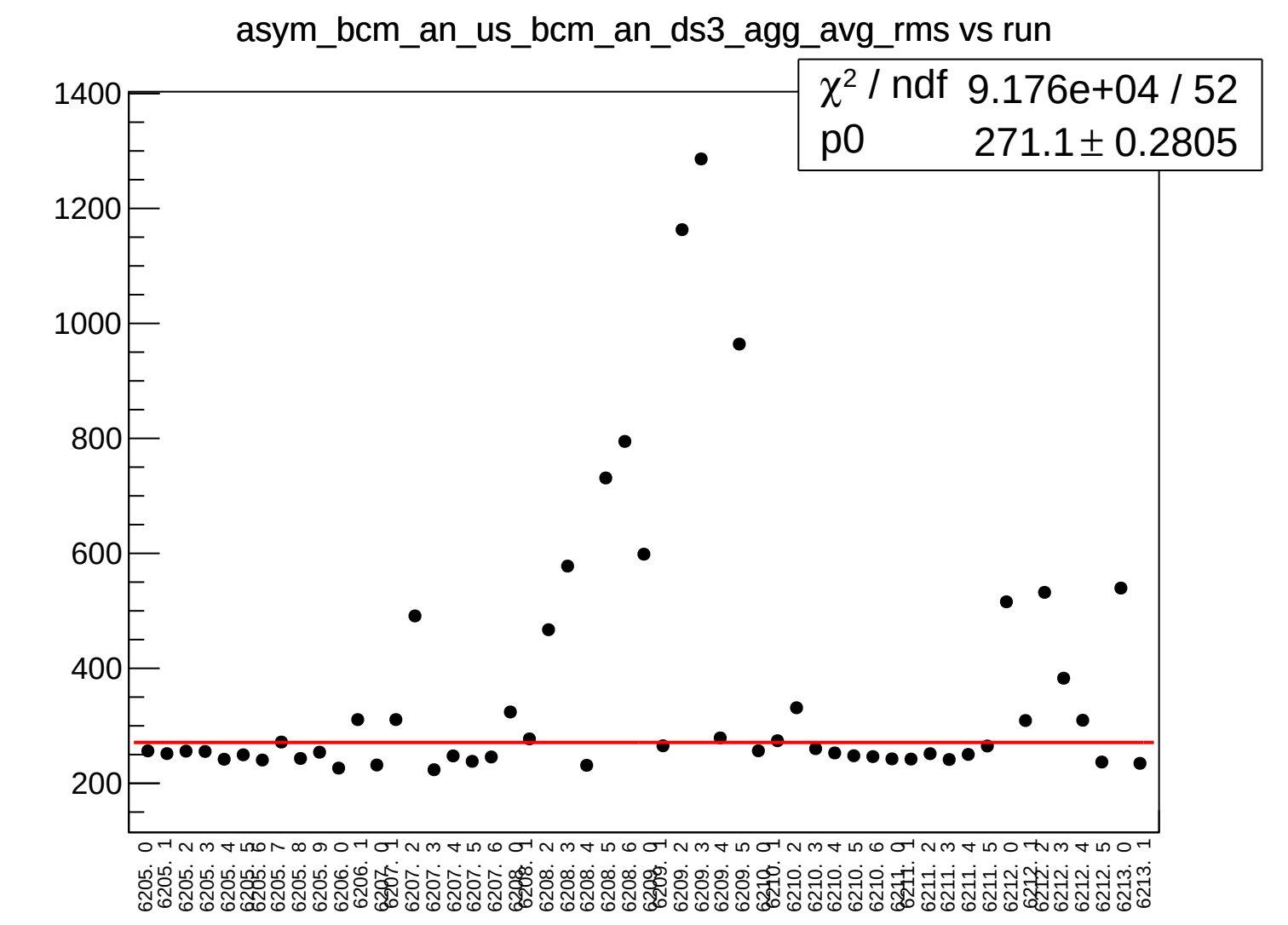

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 49.17 / 52
p0 −14.8 ± 17.13
400
200
0
−200
−400
pull
Entries 53
Mean 68.32
Std Dev 38.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

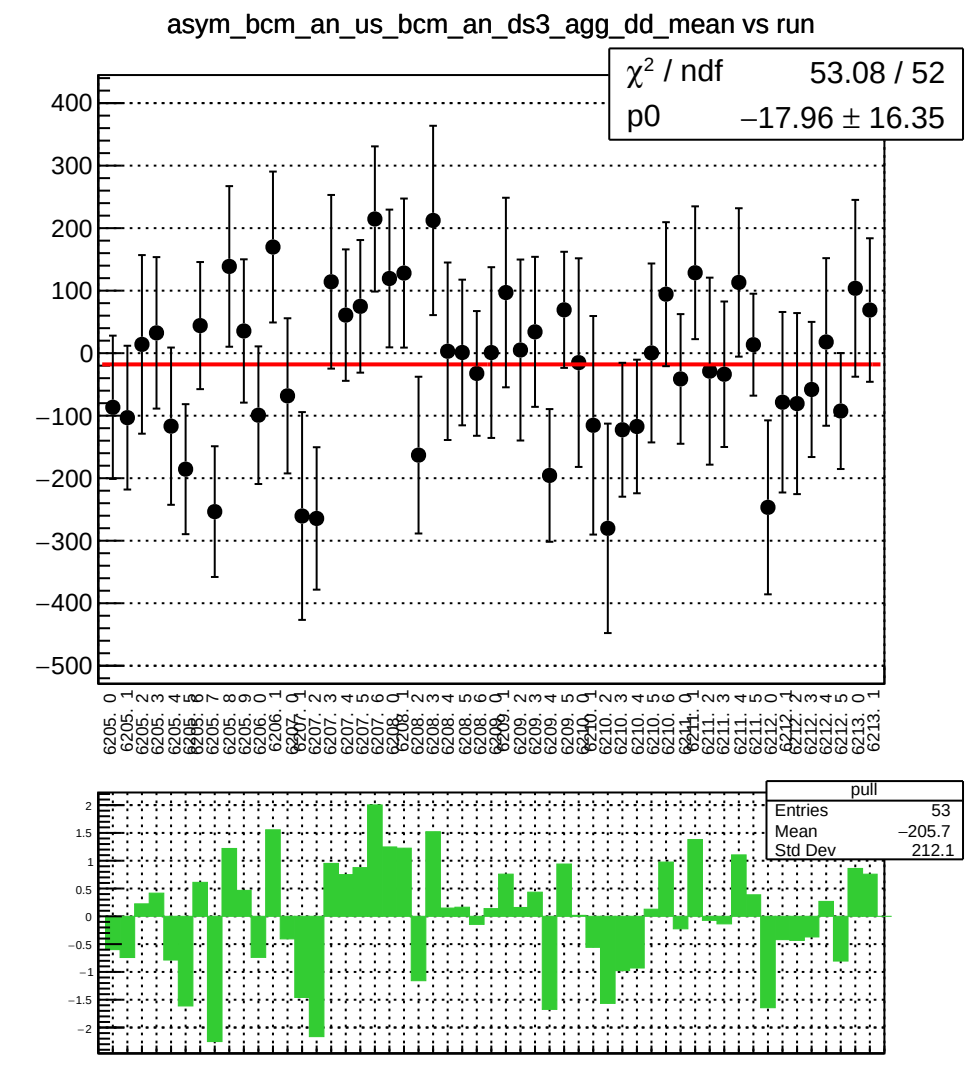

pull1D
Entries 53
Mean −0.008683
Std Dev 0.9631
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

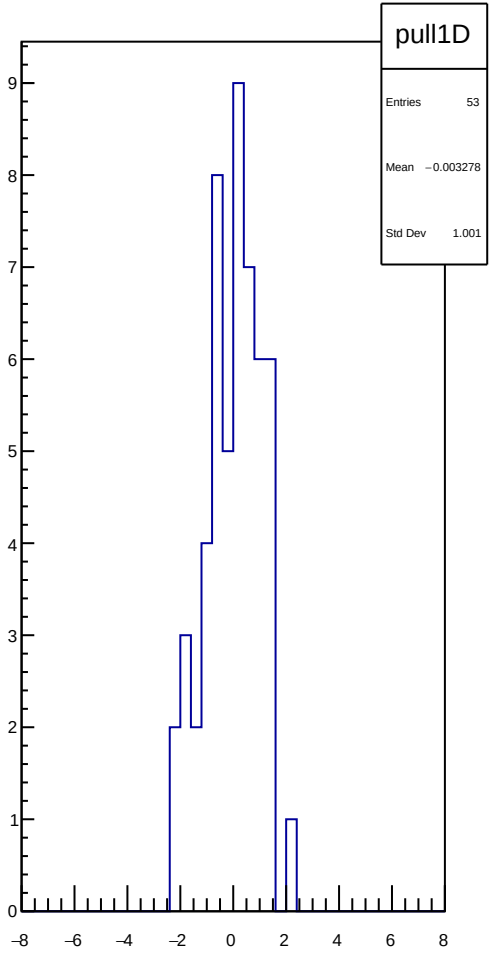

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.834e+04 / 52
p0 12.16 ± 0.01211
17
16
15
14
13
12
11
10
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

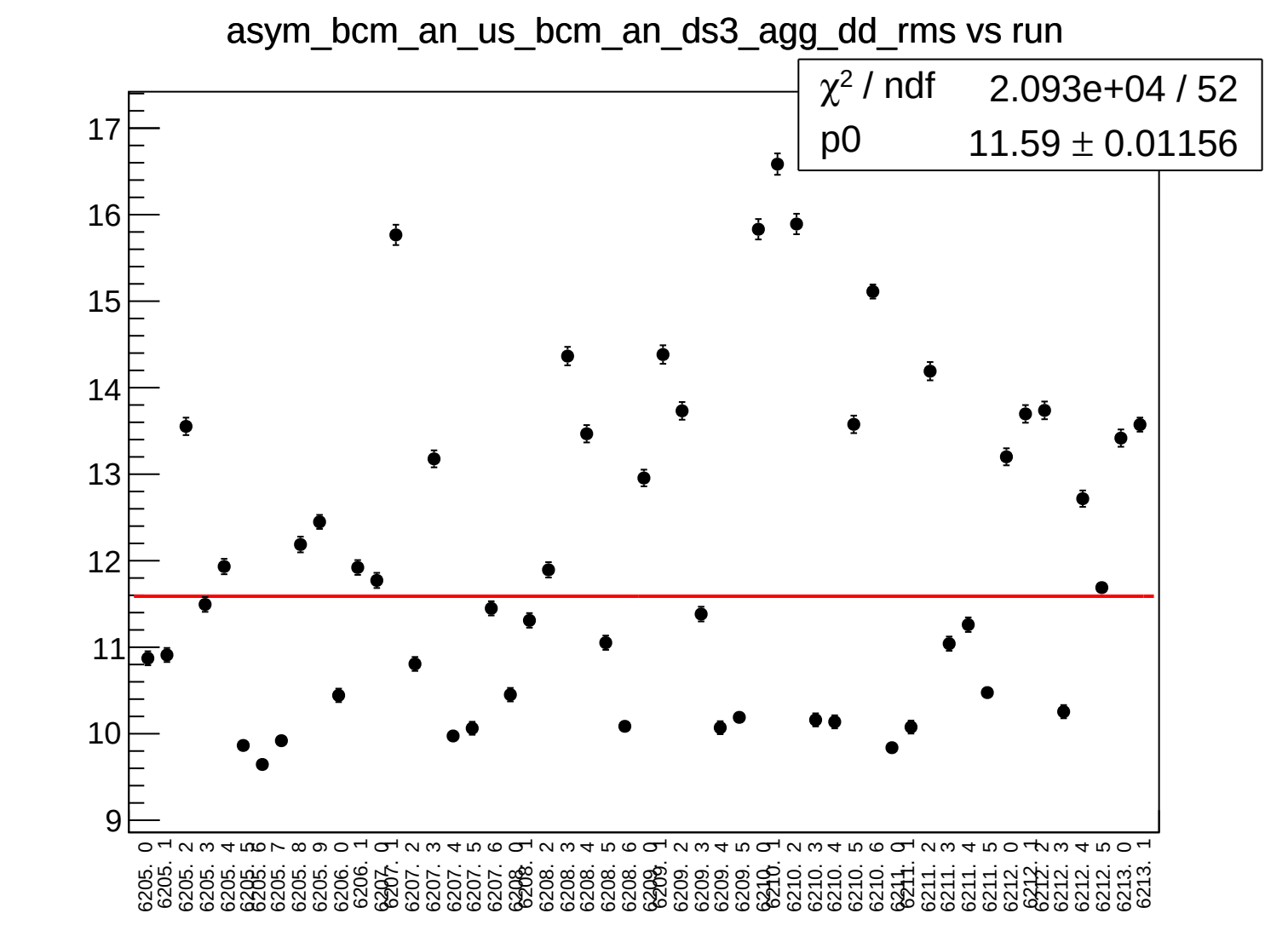

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 134.2 / 52
p0 782.5 ± 396.6
pull
Entries 53
Mean −31.22
Std Dev 61.83


pull1D
Entries 53
Mean −0.3119
Std Dev 0.3356


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 9.176e+04 / 52
p0 271.1 ± 0.2805
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 53.08 / 52
p0 −17.96 ± 16.35
pull
Entries 53
Mean −205.7
Std Dev 212.1


pull1D
Entries 53
Mean −0.003278
Std Dev 1.001


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.093e+04 / 52
p0 11.59 ± 0.01156
17
16
15
14
13
12
11
10
9
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
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6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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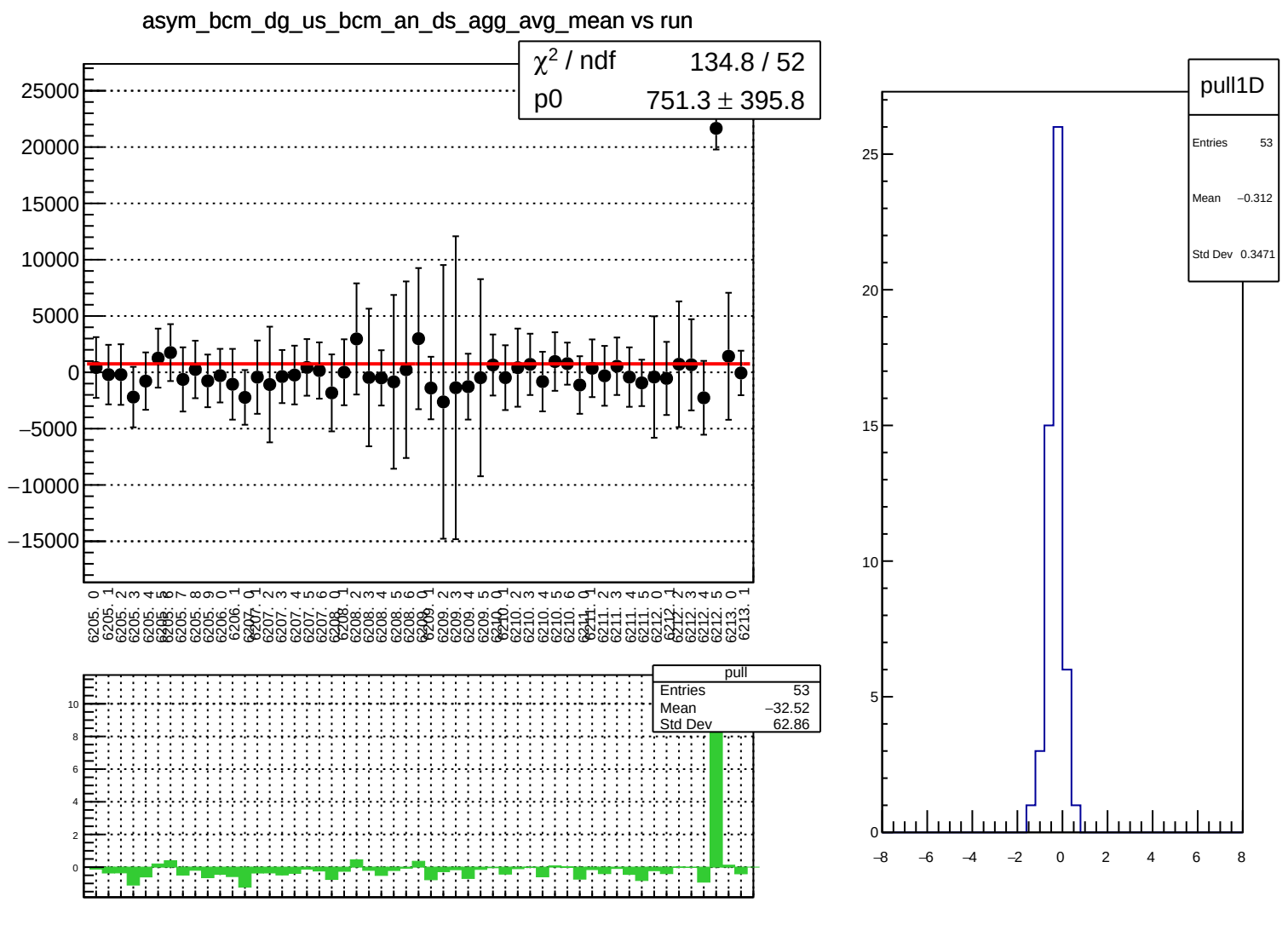
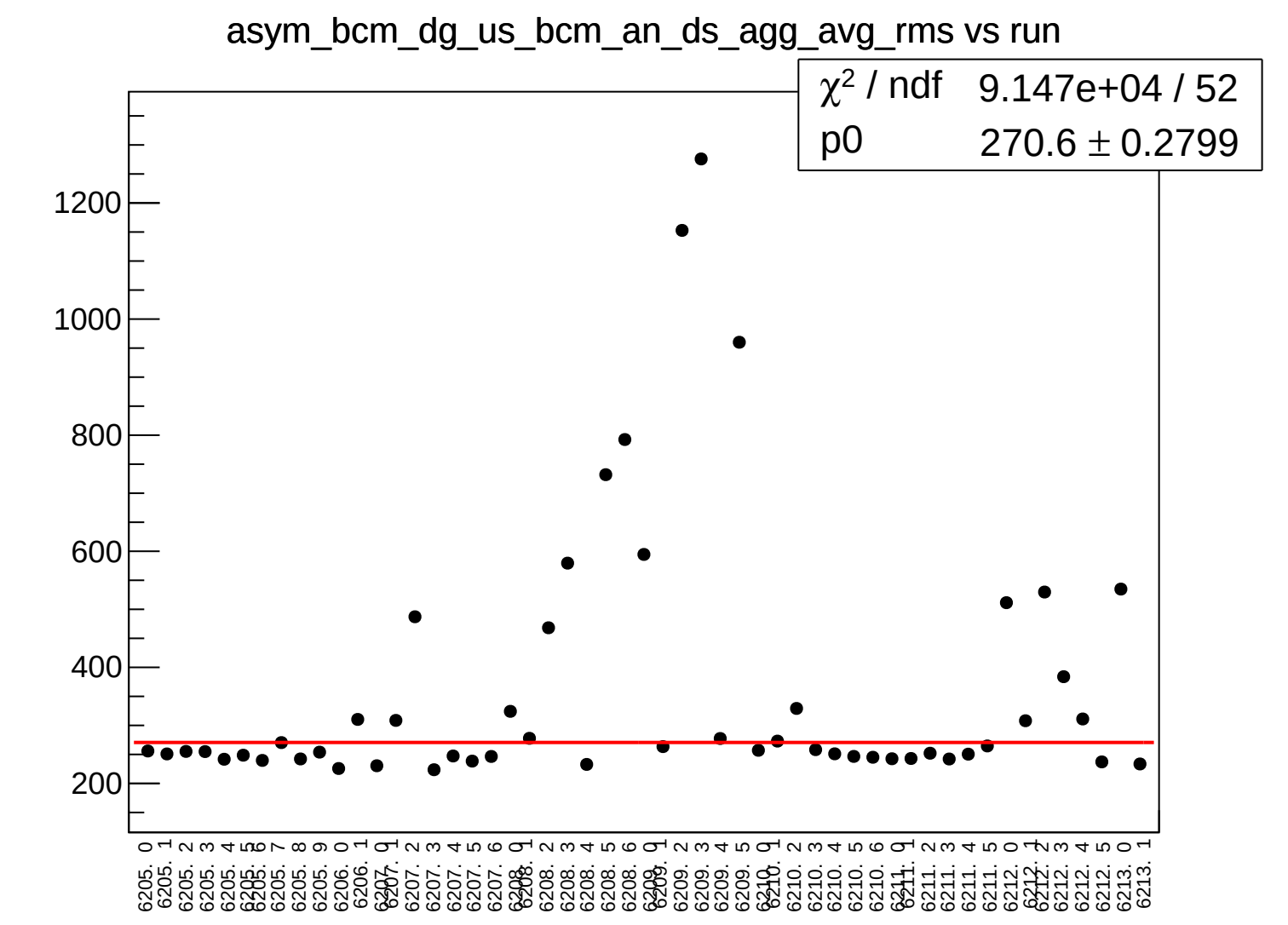
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 134.8 / 52
p0 751.3 ± 395.8
pull
Entries 53
Mean −32.52
Std Dev 62.86
pull1D
Entries 53
Mean −0.312
Std Dev 0.3471


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.147e+04 / 52
p0 270.6 ± 0.2799
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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6212. 0
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6212. 2
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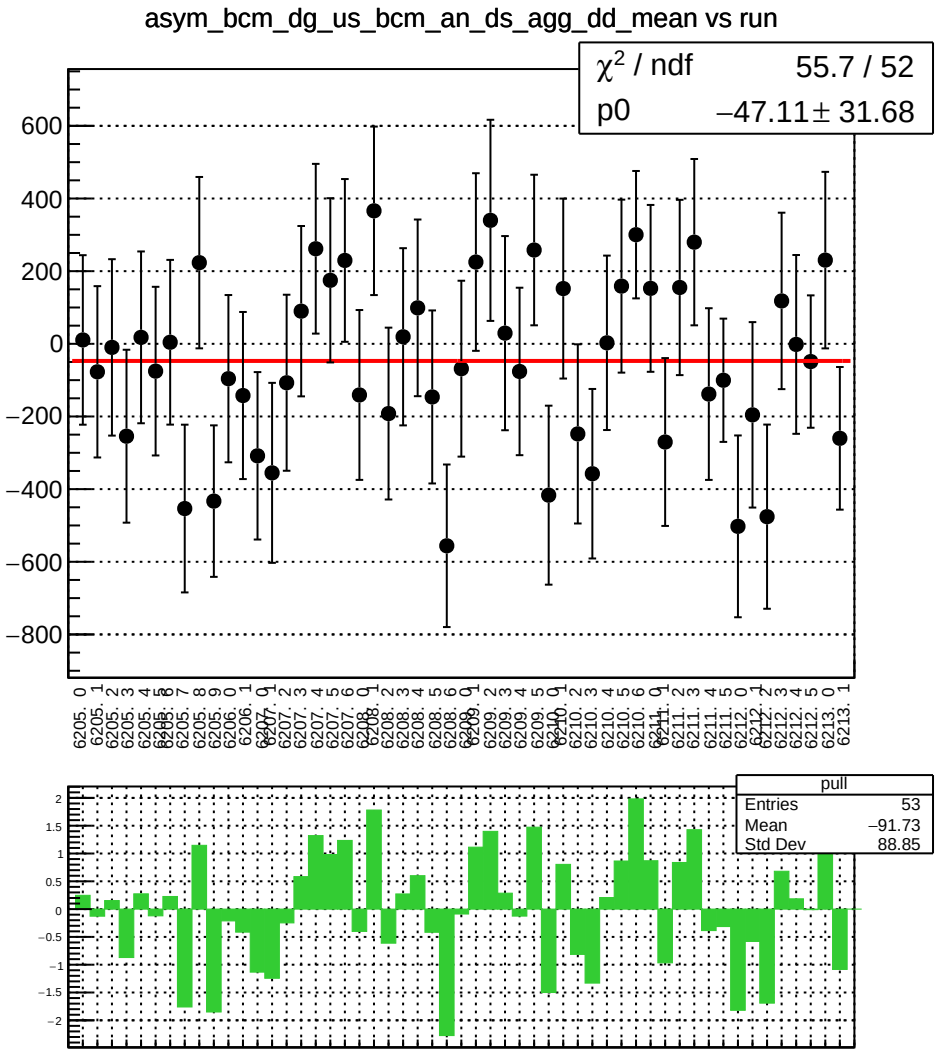
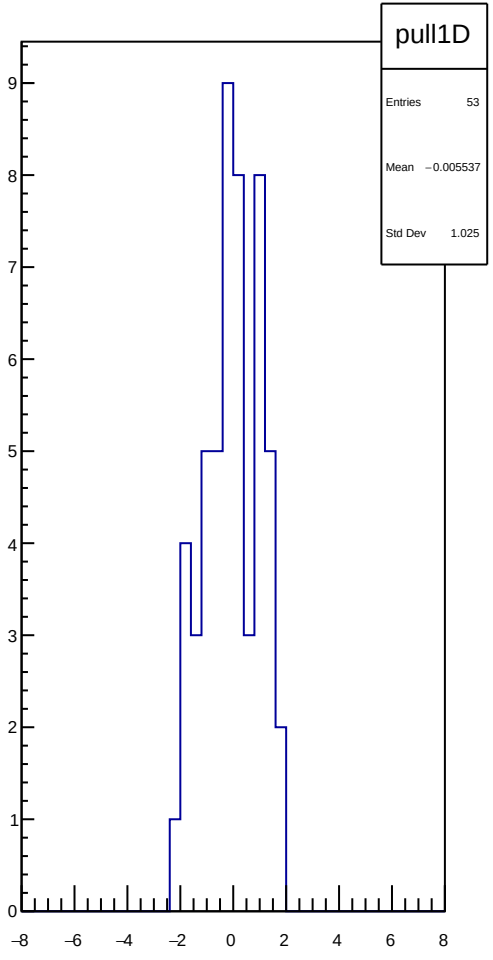
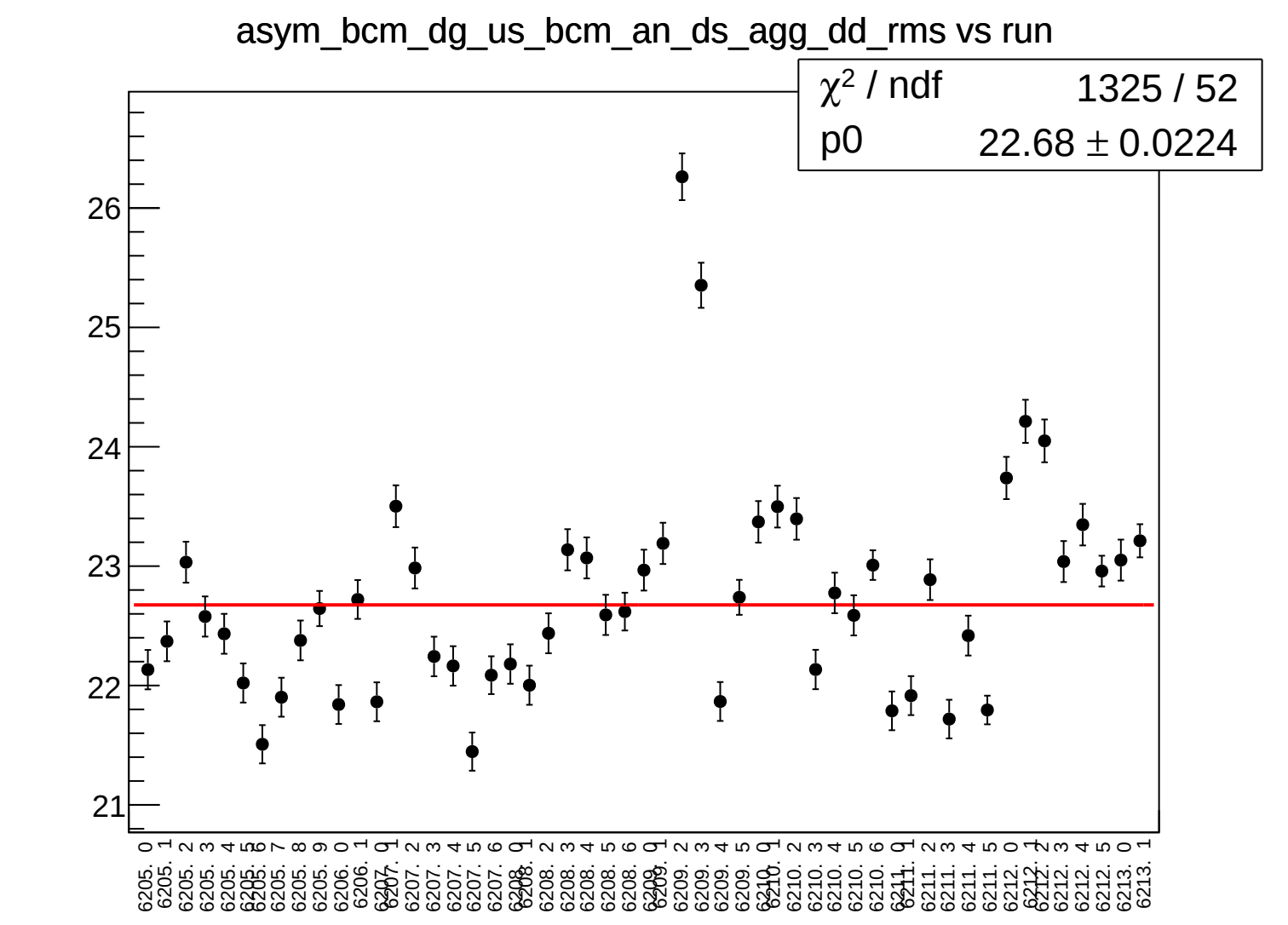
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 55.7 / 52
p0 −47.11 ± 31.68
pull
Entries 53
Mean −91.73
Std Dev 88.85


pull1D
Entries 53
Mean −0.005537
Std Dev 1.025


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1325 / 52
p0 22.68 ± 0.0224
26
25
24
23
22
21
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
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6207. 5
6207. 6
6208. 0
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6208. 5
6208. 6
6209. 0
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6210. 4
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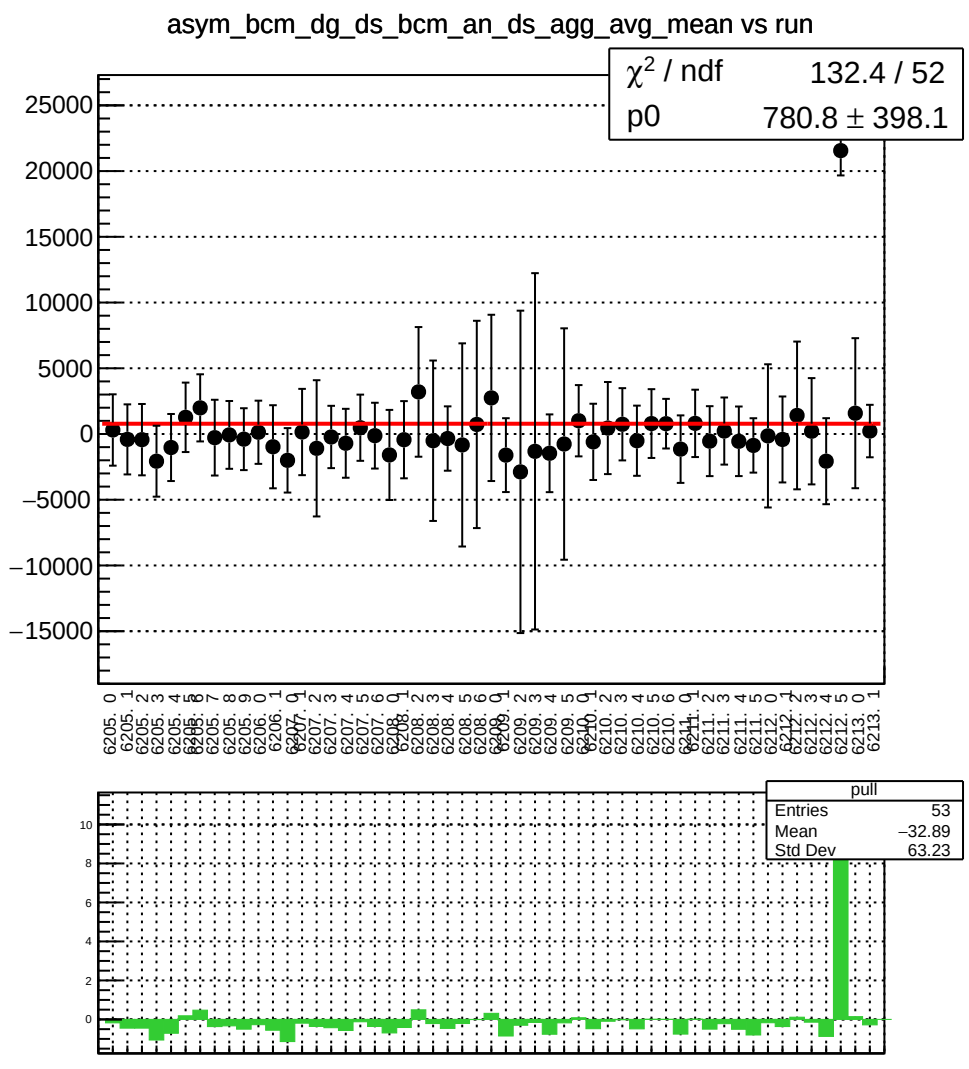
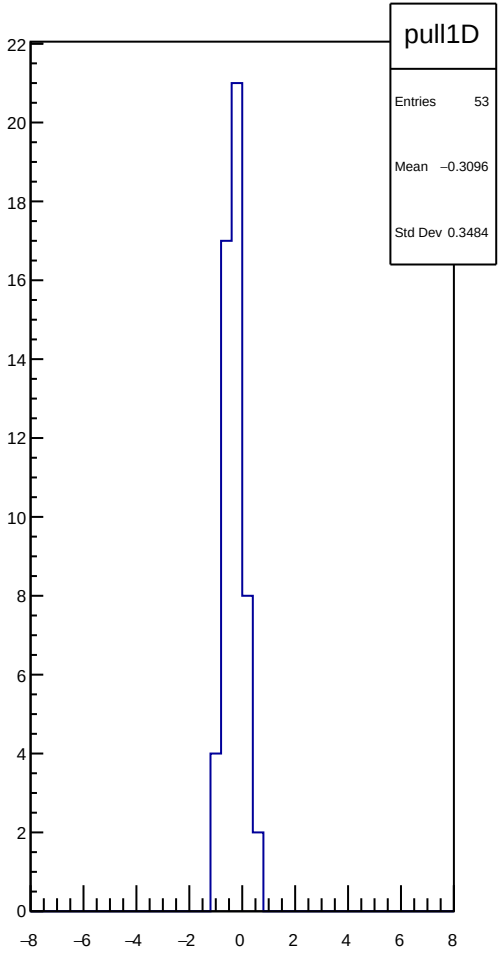
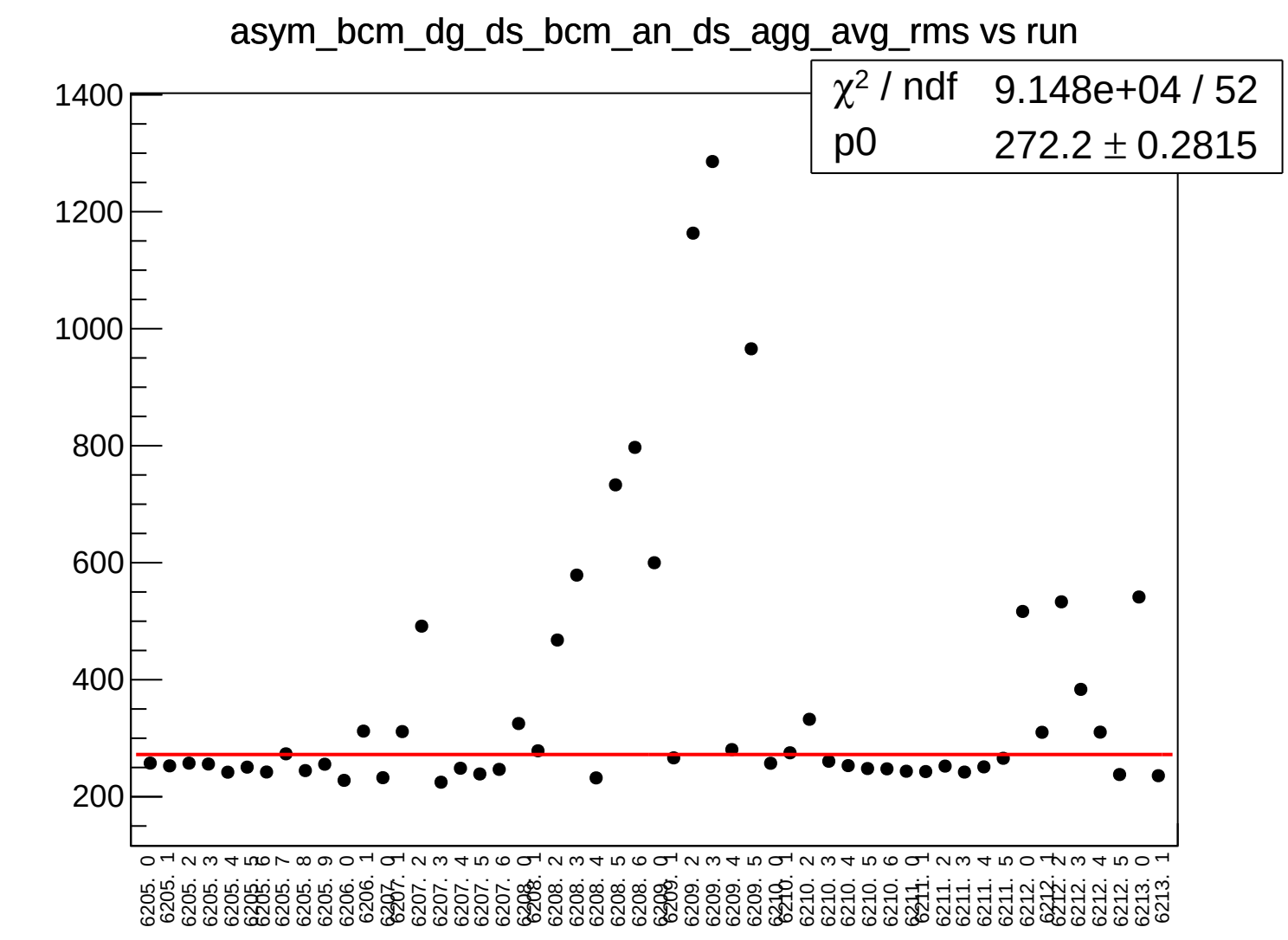
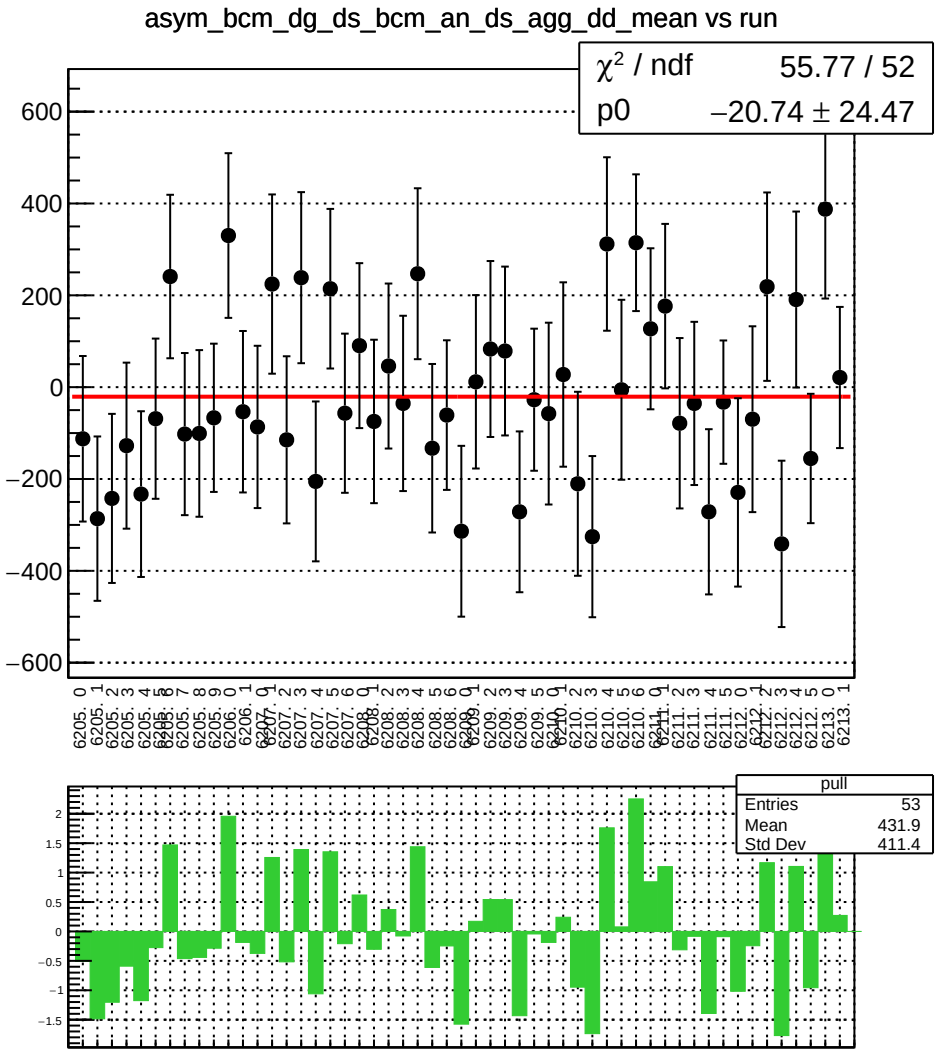
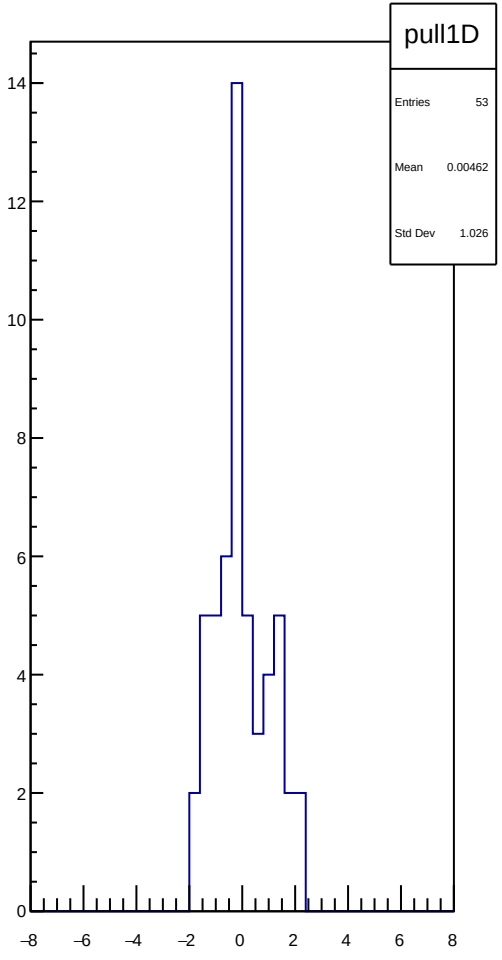
6213. 0
6213. 1

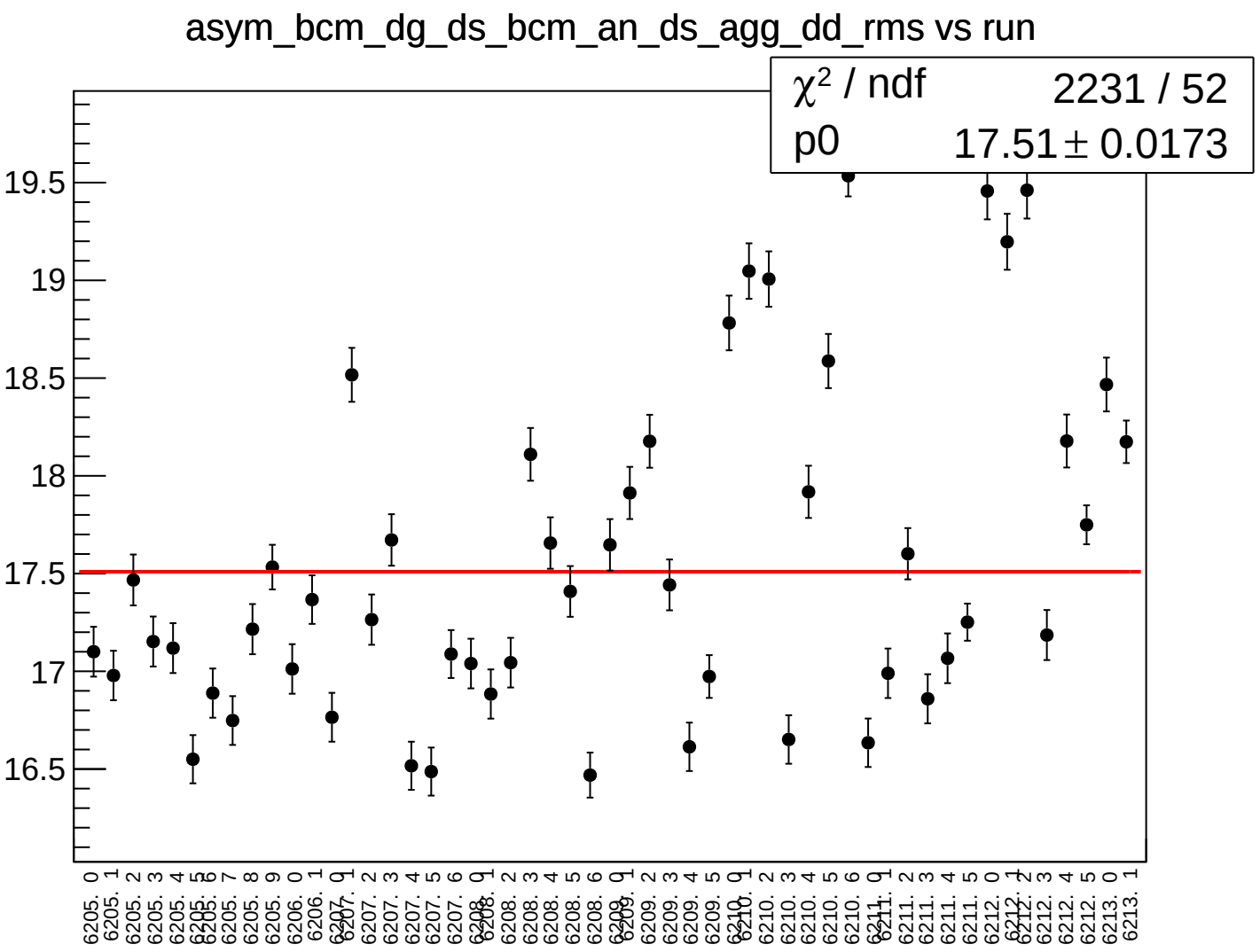

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 132.4 / 52
p0 780.8 ± 398.1
pull
Entries 53
Mean −32.89
Std Dev 63.23

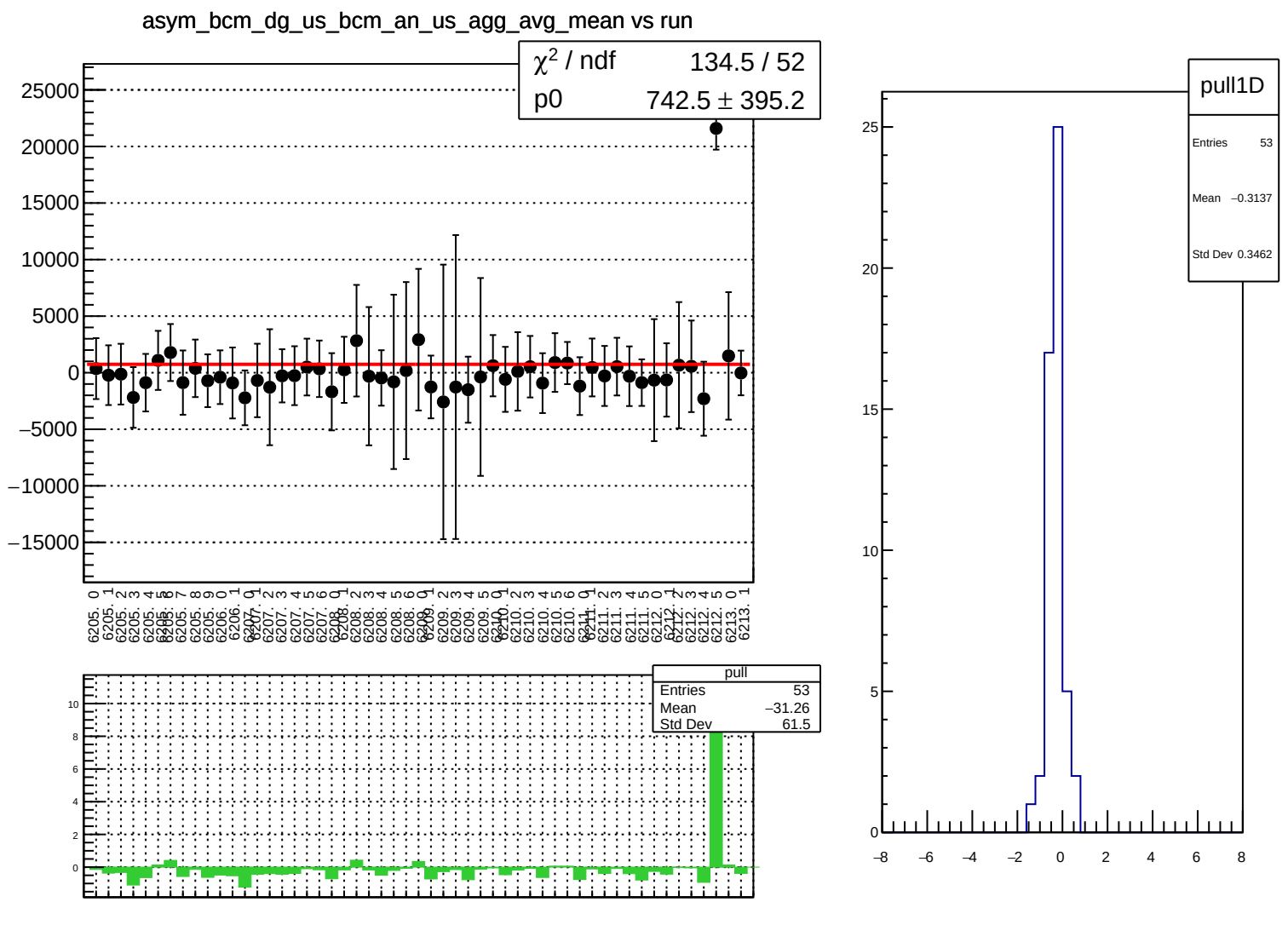

pull1D
Entries 53
Mean −0.3096
Std Dev 0.3484

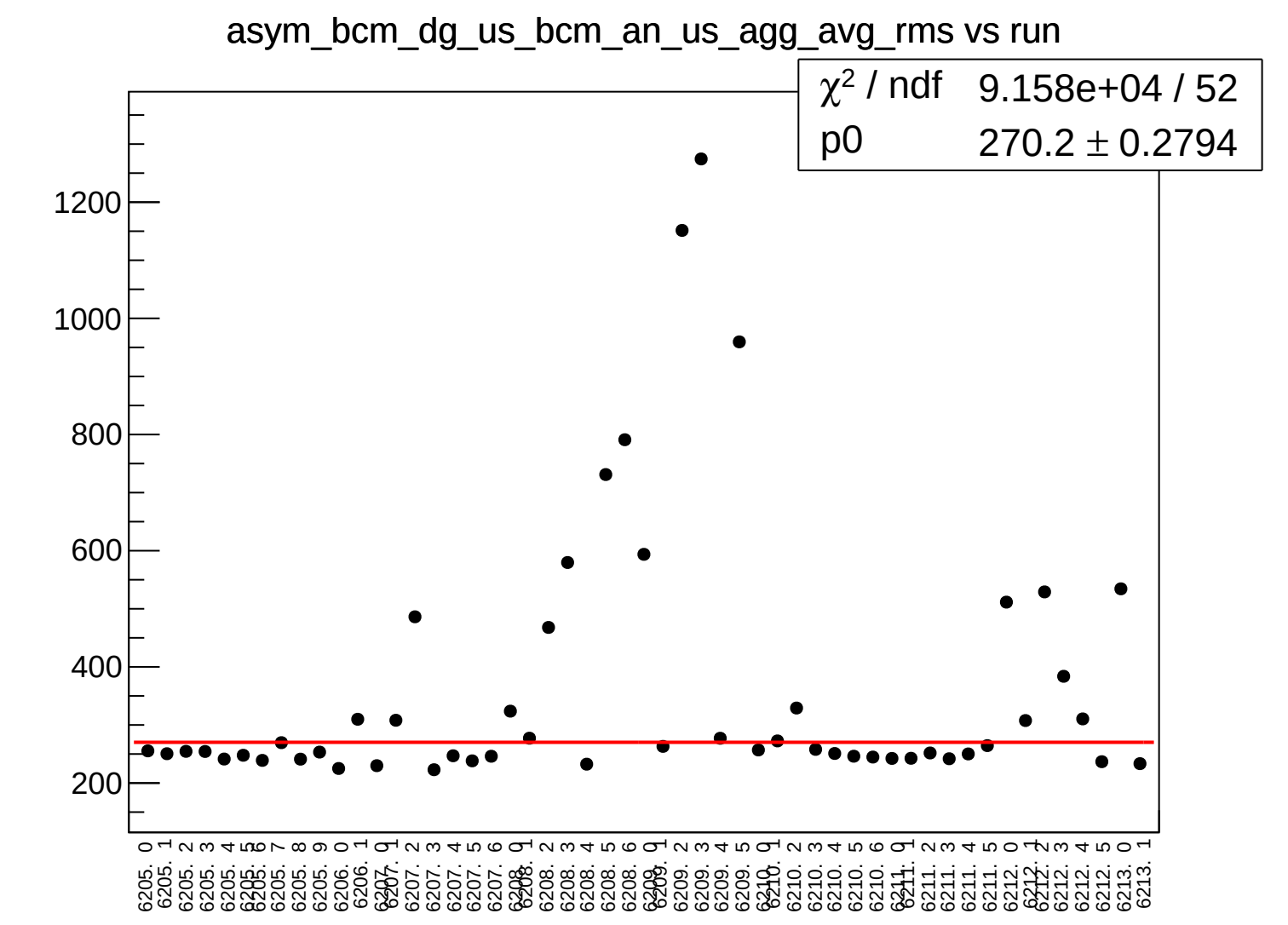

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.148e+04 / 52
p0 272.2 ± 0.2815
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 55.77 / 52
p0 −20.74 ± 24.47
pull
Entries 53
Mean 431.9
Std Dev 411.4


pull1D
Entries 53
Mean 0.00462
Std Dev 1.026


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2231 / 52
p0 17.51 ± 0.0173
19.5
19
18.5
18
17.5
17
16.5
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 134.5 / 52
p0 742.5 ± 395.2
pull
Entries 53
Mean −31.26
Std Dev 61.5
pull1D
Entries 53
Mean −0.3137
Std Dev 0.3462


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.158e+04 / 52
p0 270.2 ± 0.2794
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
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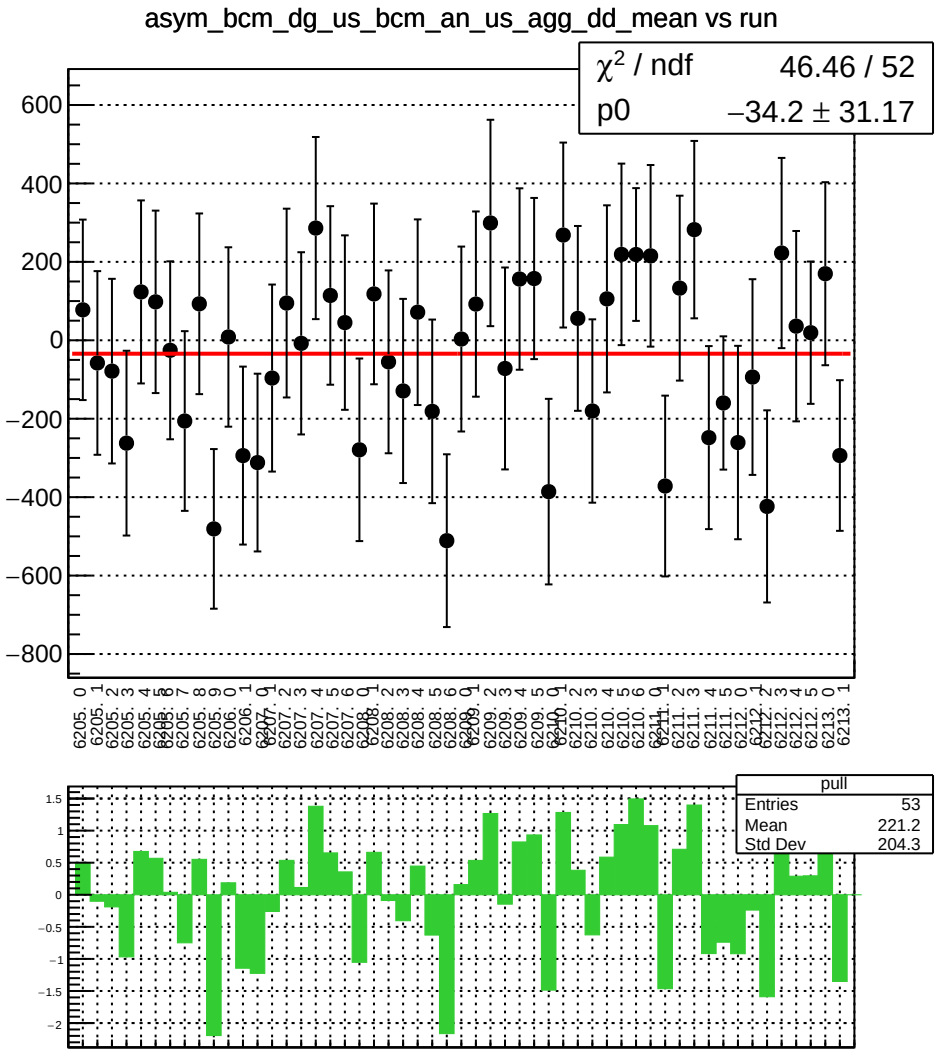
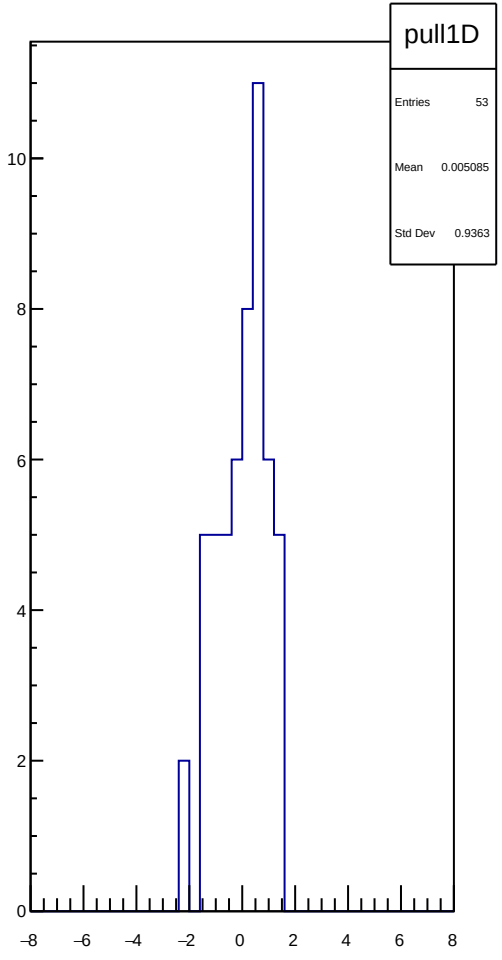
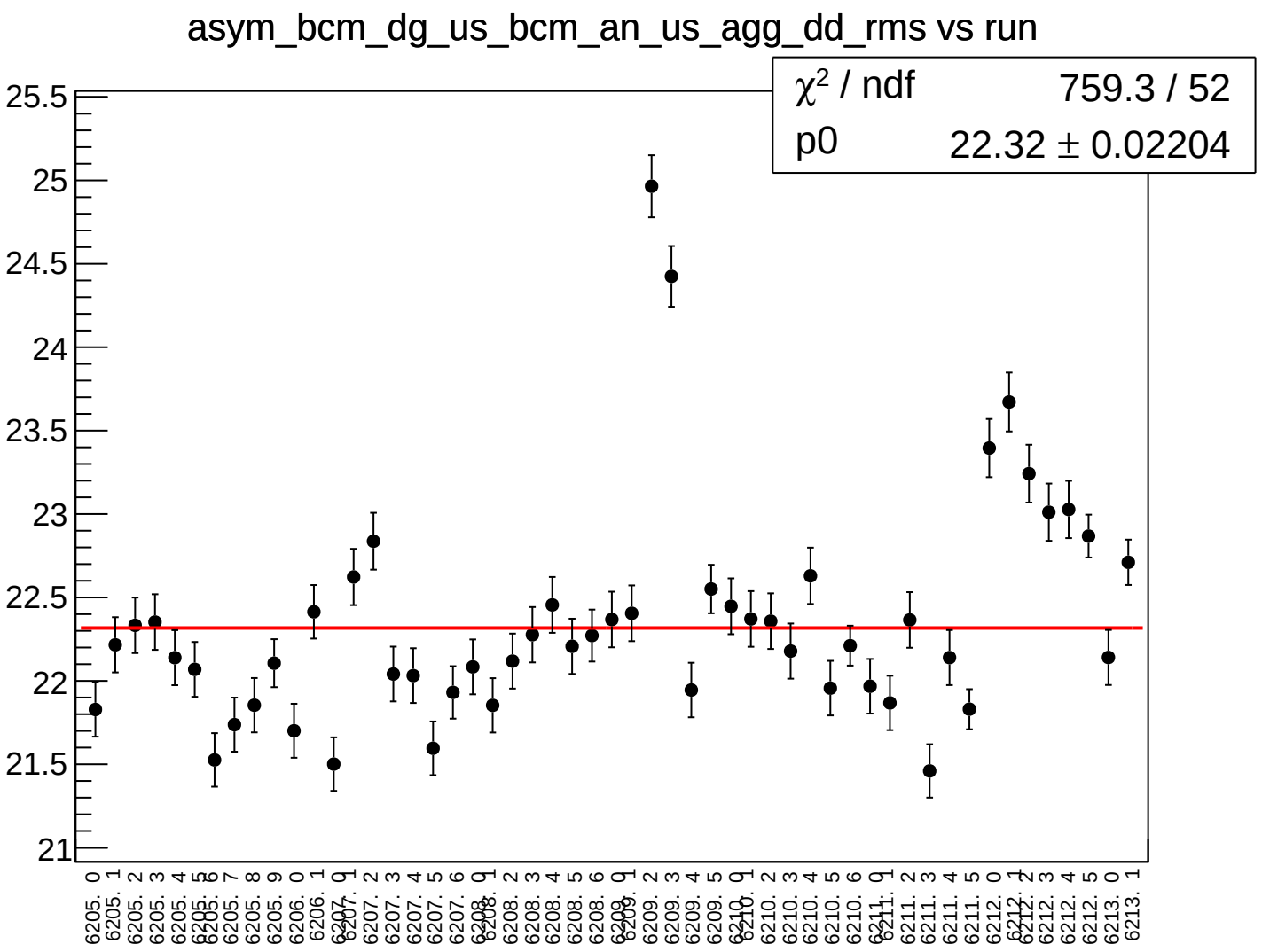
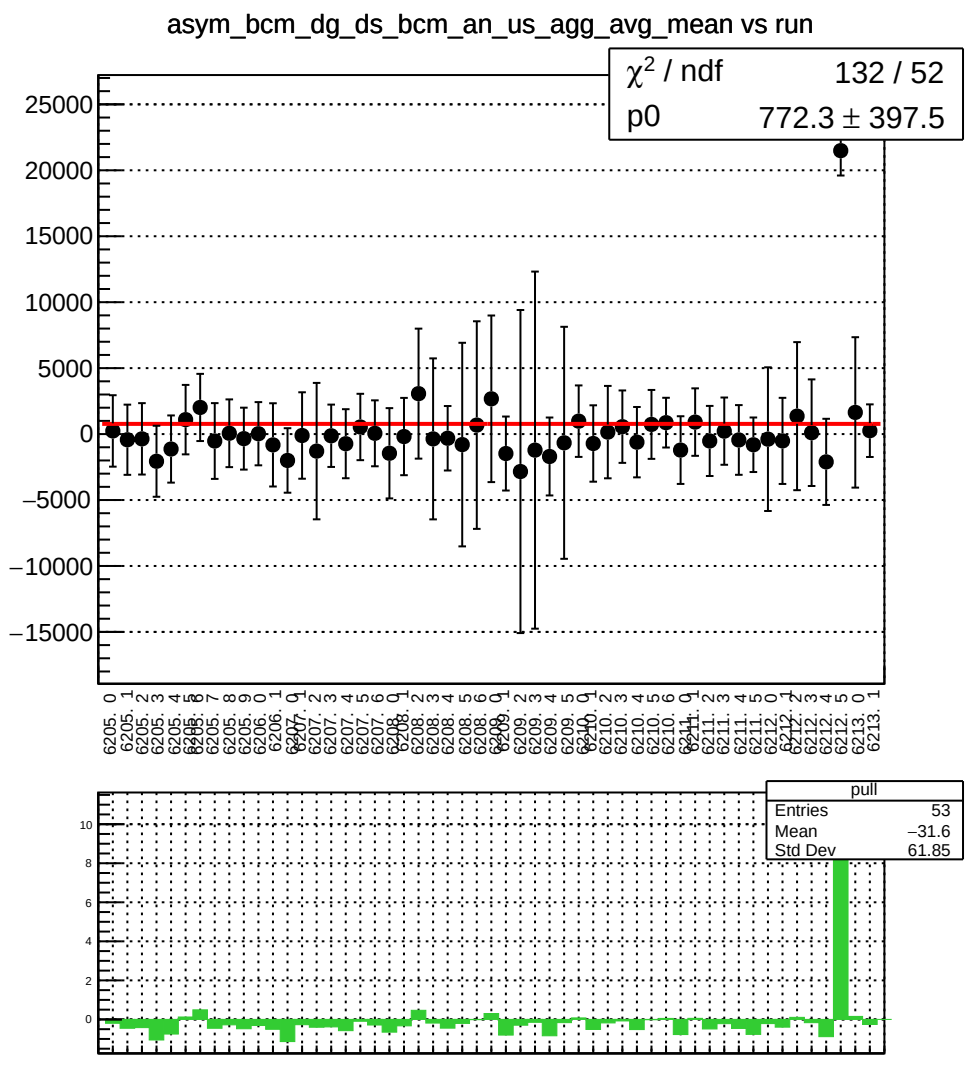
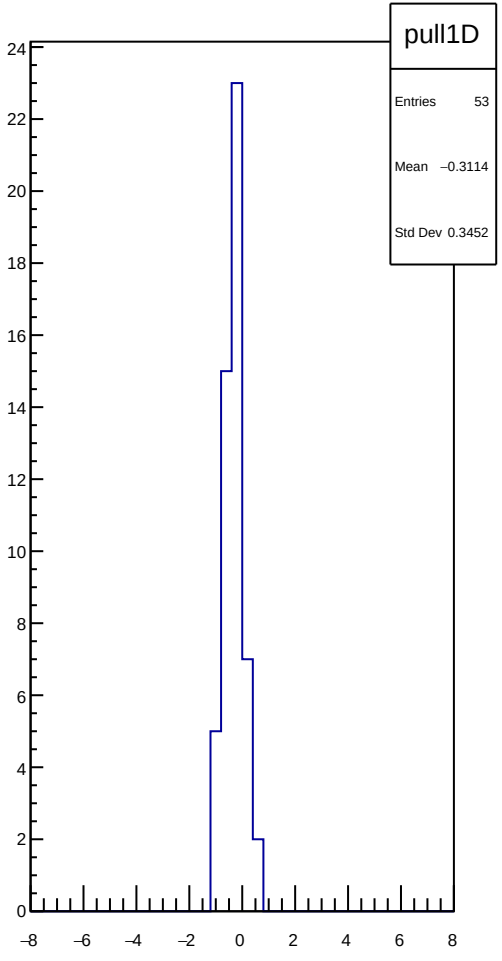
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

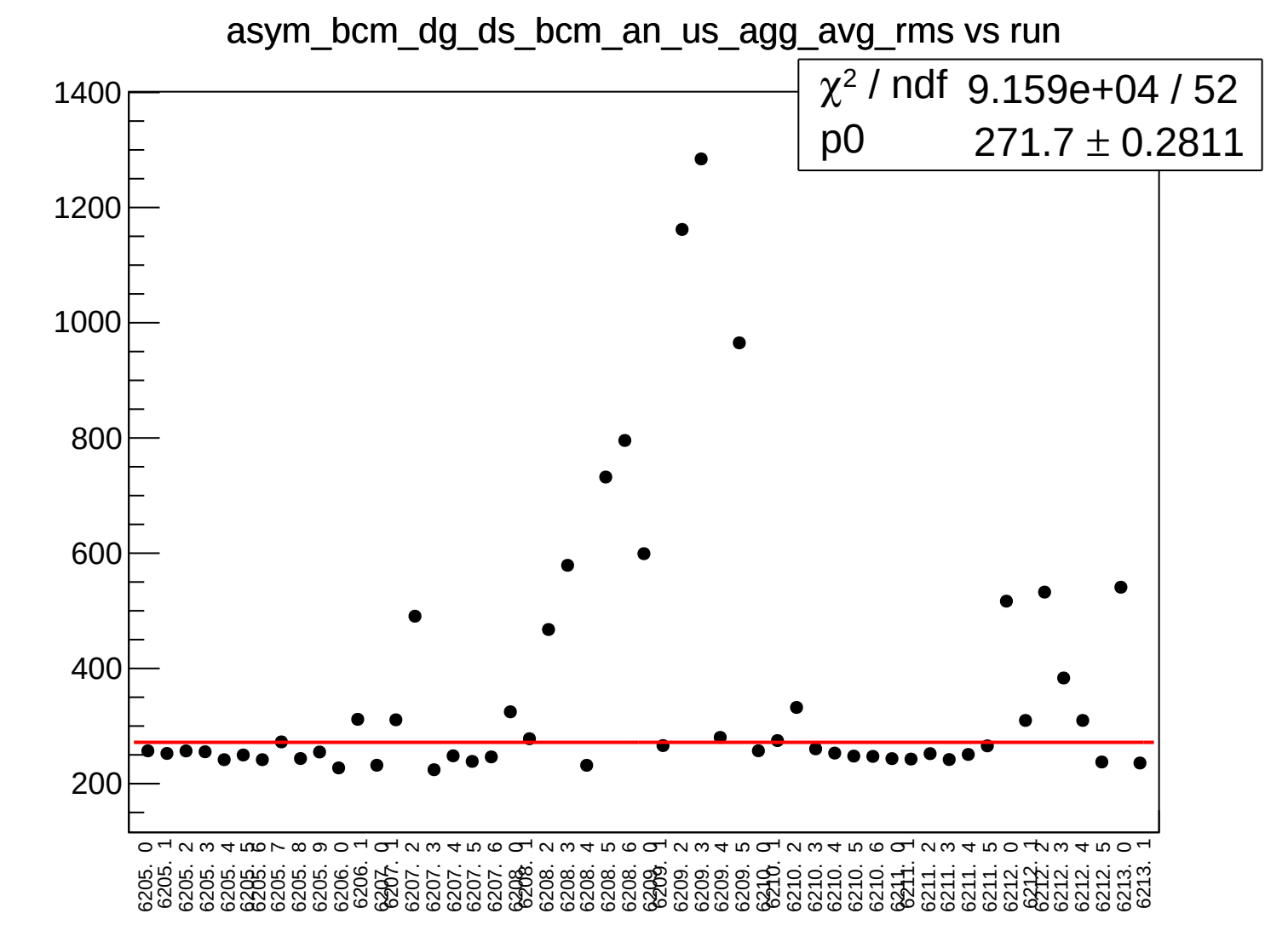

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.46 / 52
p0 −34.2 ± 31.17
pull
Entries 53
Mean 221.2
Std Dev 204.3

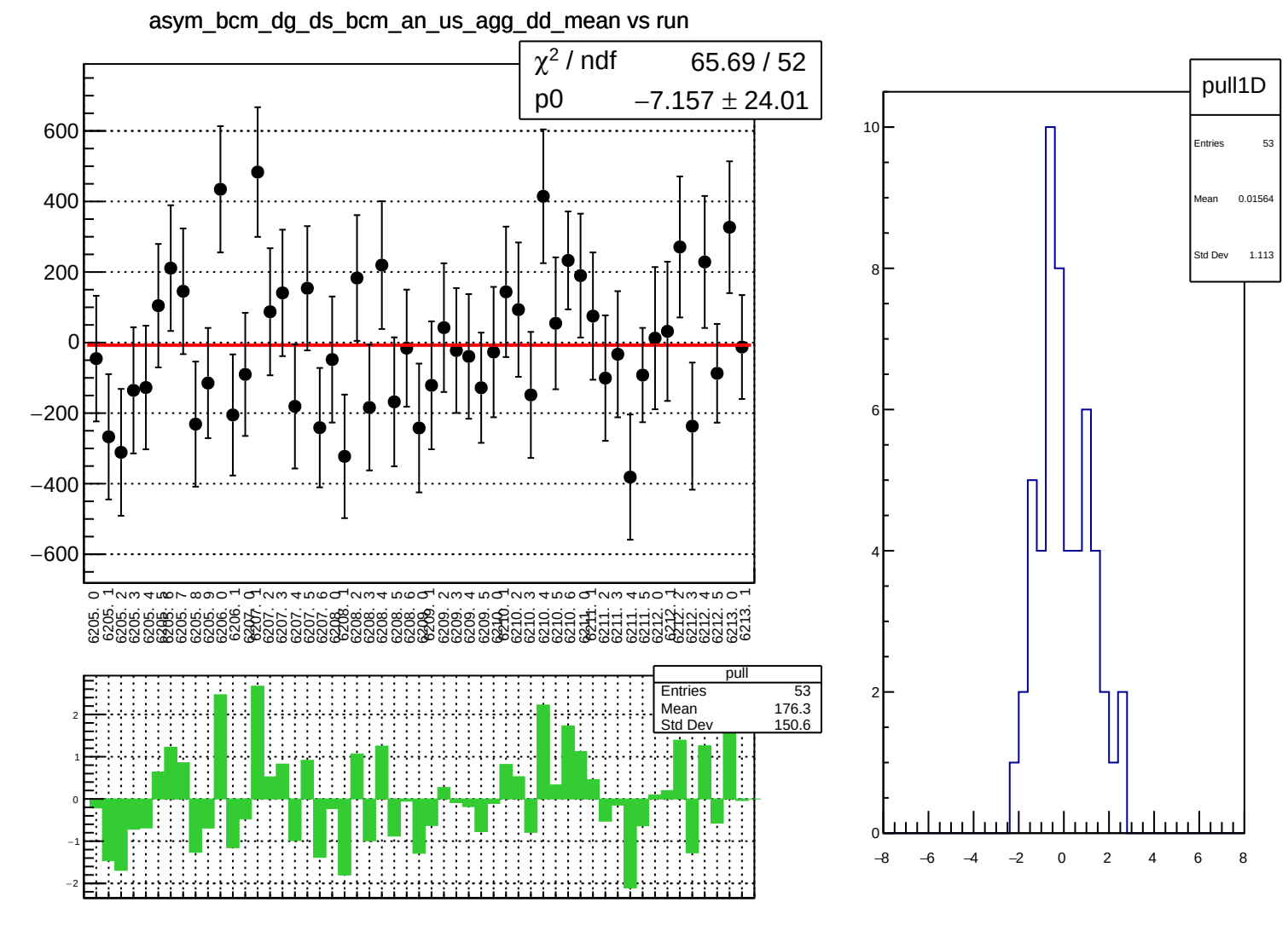

pull1D
Entries 53
Mean 0.005085
Std Dev 0.9363

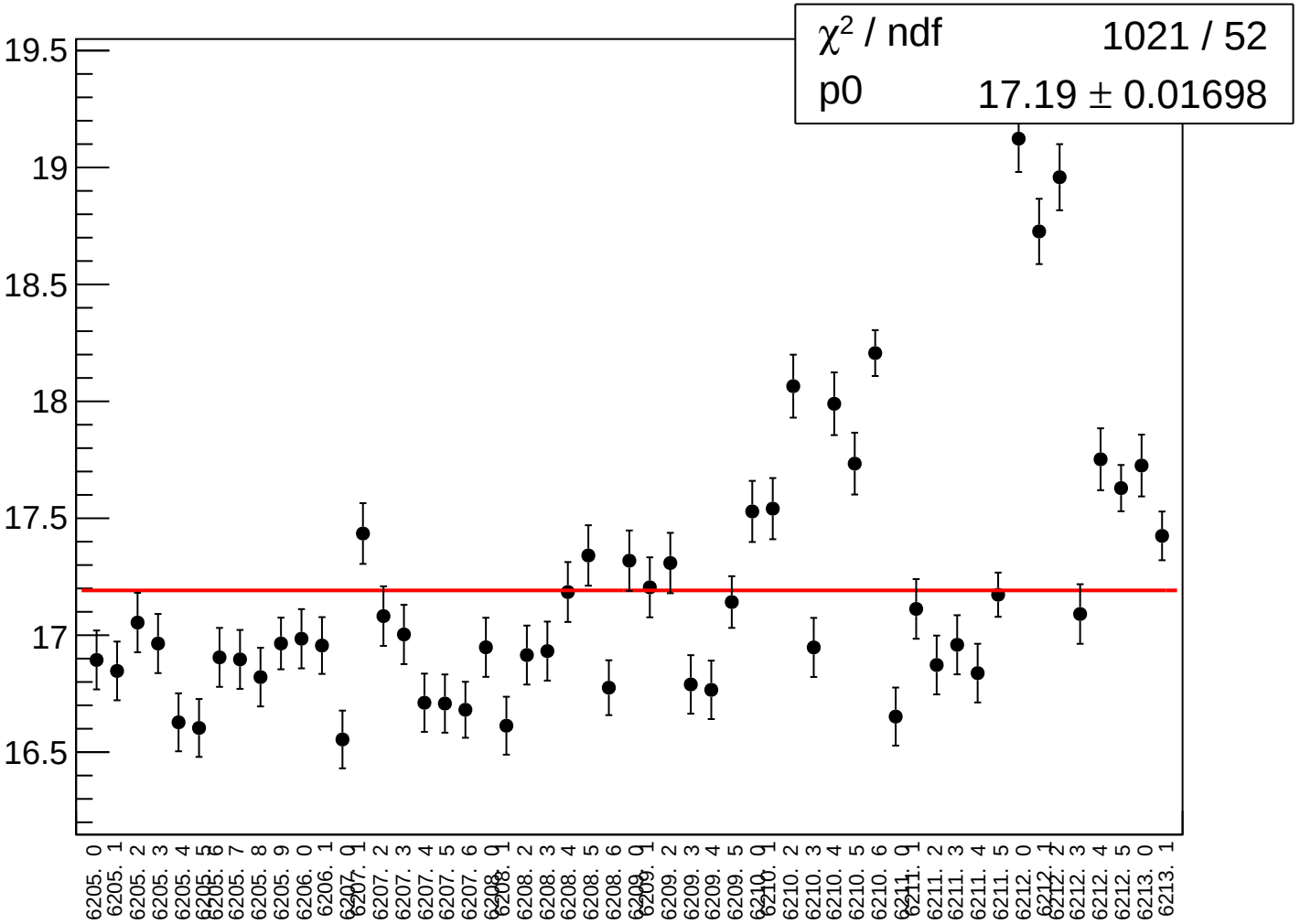

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 759.3 / 52
p0 22.32 ± 0.02204
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

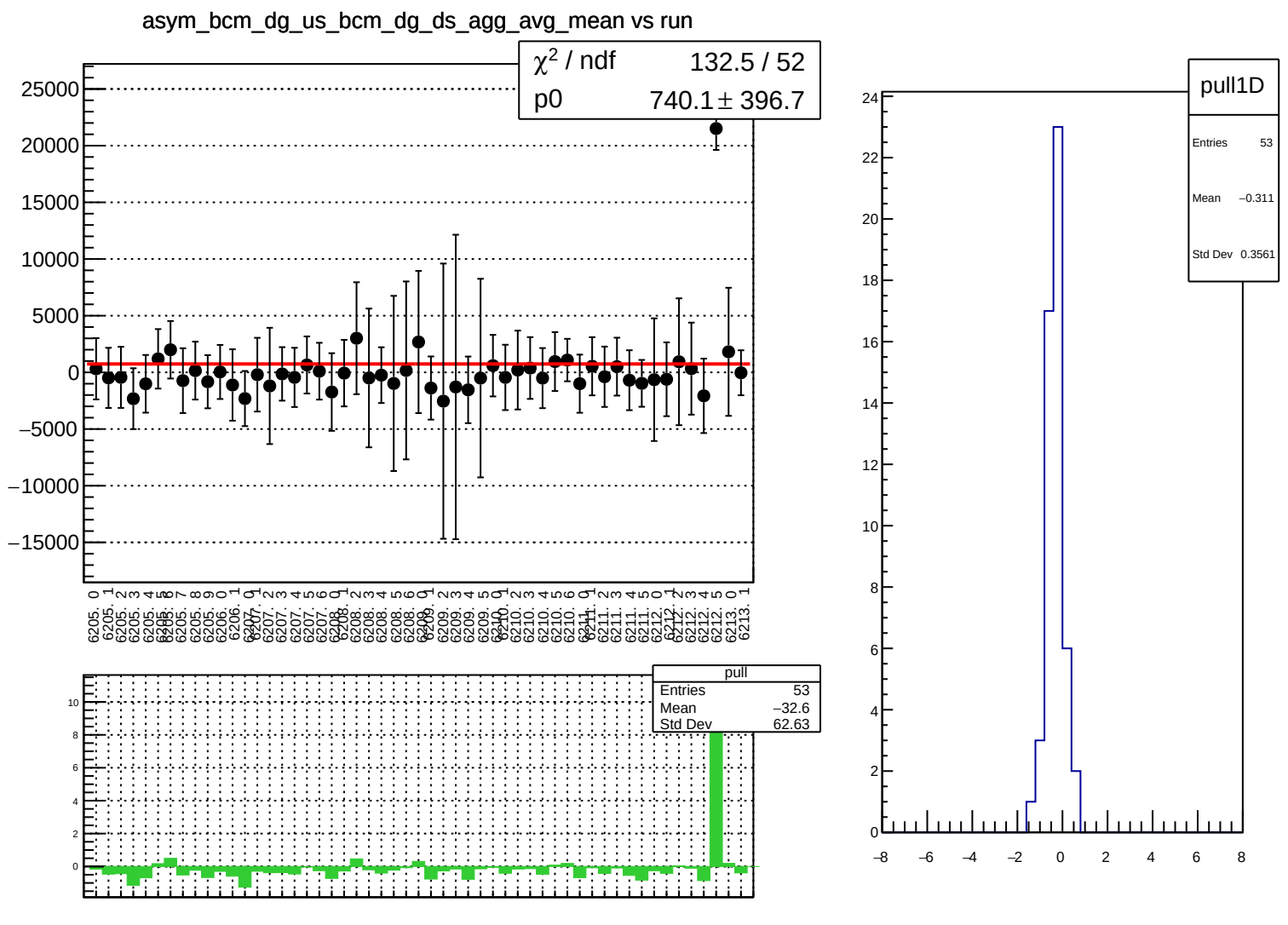

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 132 / 52
p0 772.3 ± 397.5
pull
Entries 53
Mean −31.6
Std Dev 61.85

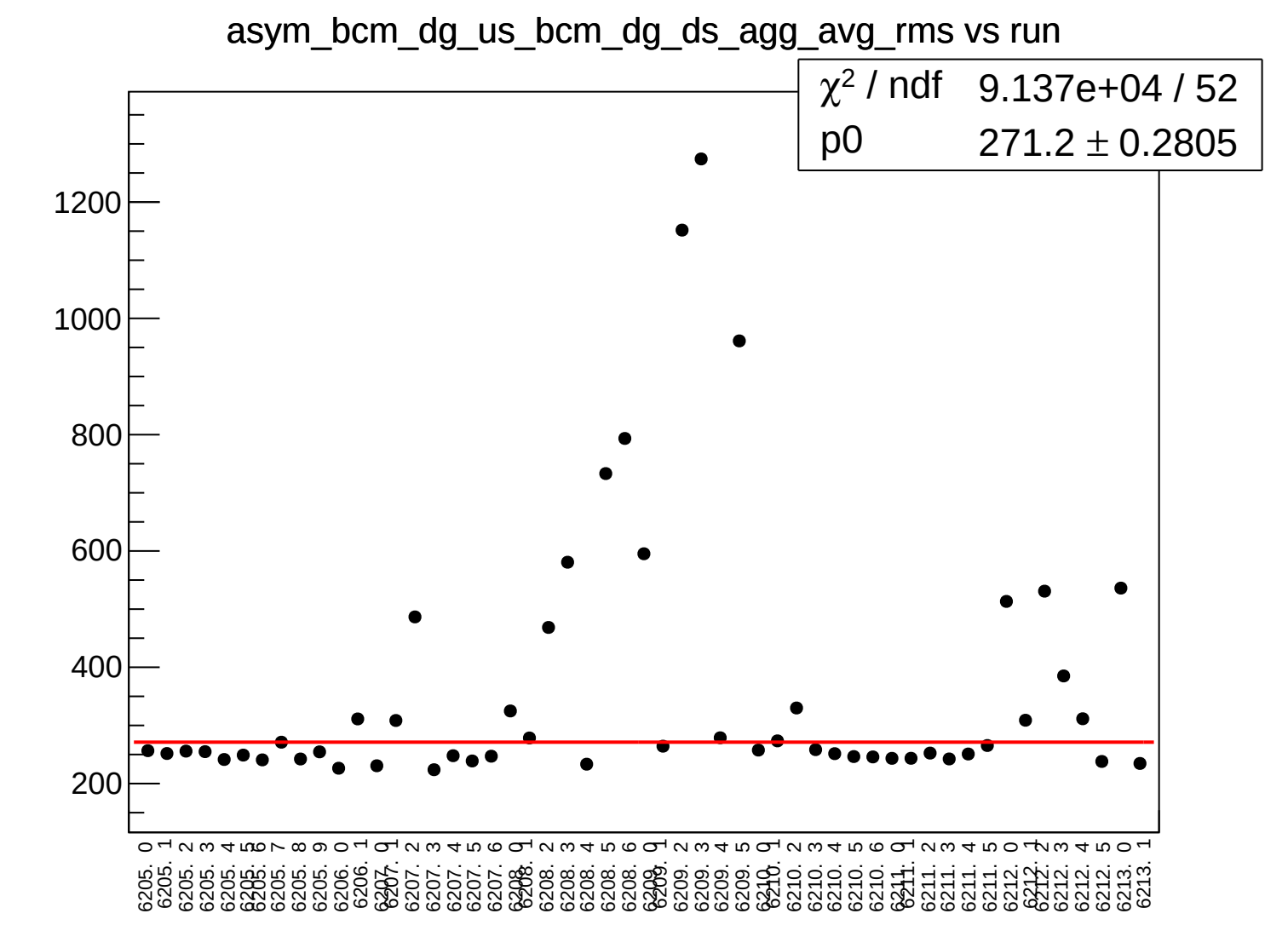

pull1D
Entries 53
Mean −0.3114
Std Dev 0.3452

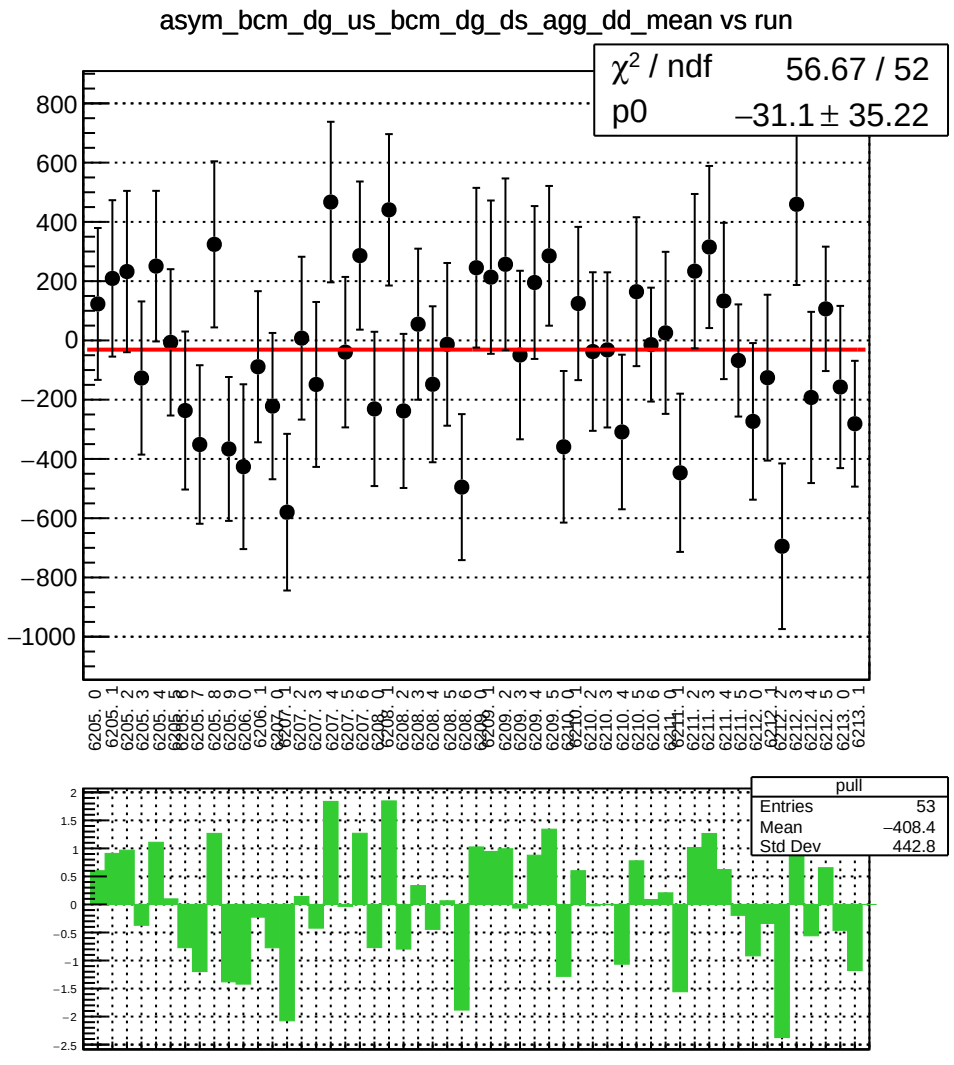

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.159e+04 / 52
p0 271.7 ± 0.2811
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

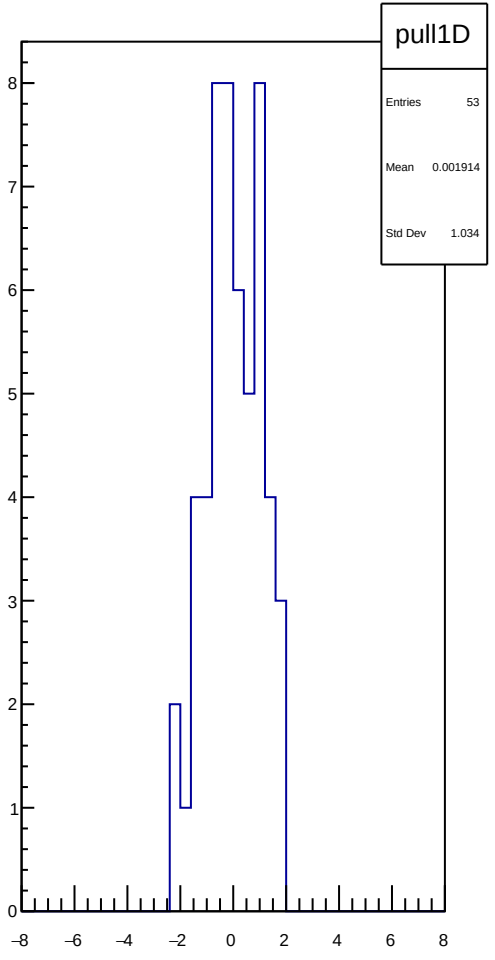

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.69 / 52
p0 −7.157 ± 24.01
pull
Entries 53
Mean 176.3
Std Dev 150.6
pull1D
Entries 53
Mean 0.01564
Std Dev 1.113

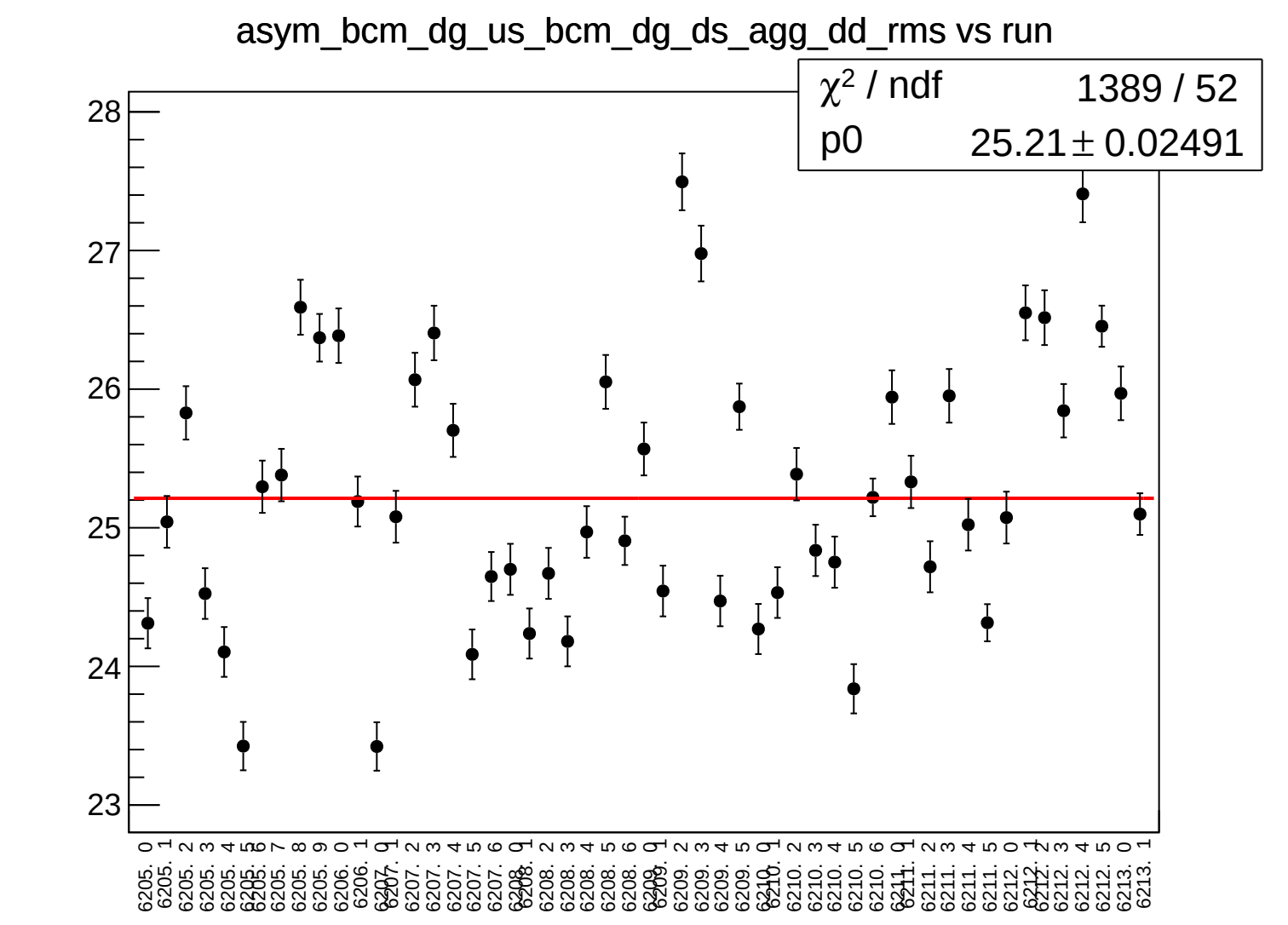

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1021 / 52
p0 17.19 ± 0.01698
19.5
19
18.5
18
17.5
17
16.5
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 132.5 / 52
p0 740.1 ± 396.7
pull
Entries 53
Mean −32.6
Std Dev 62.63
pull1D
Entries 53
Mean −0.311
Std Dev 0.3561


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.137e+04 / 52
p0 271.2 ± 0.2805
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 56.67 / 52
p0 −31.1 ± 35.22
pull
Entries 53
Mean −408.4
Std Dev 442.8


pull1D
Entries 53
Mean 0.001914
Std Dev 1.034


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1389 / 52
p0 25.21 ± 0.02491
28
27
26
25
24
23
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
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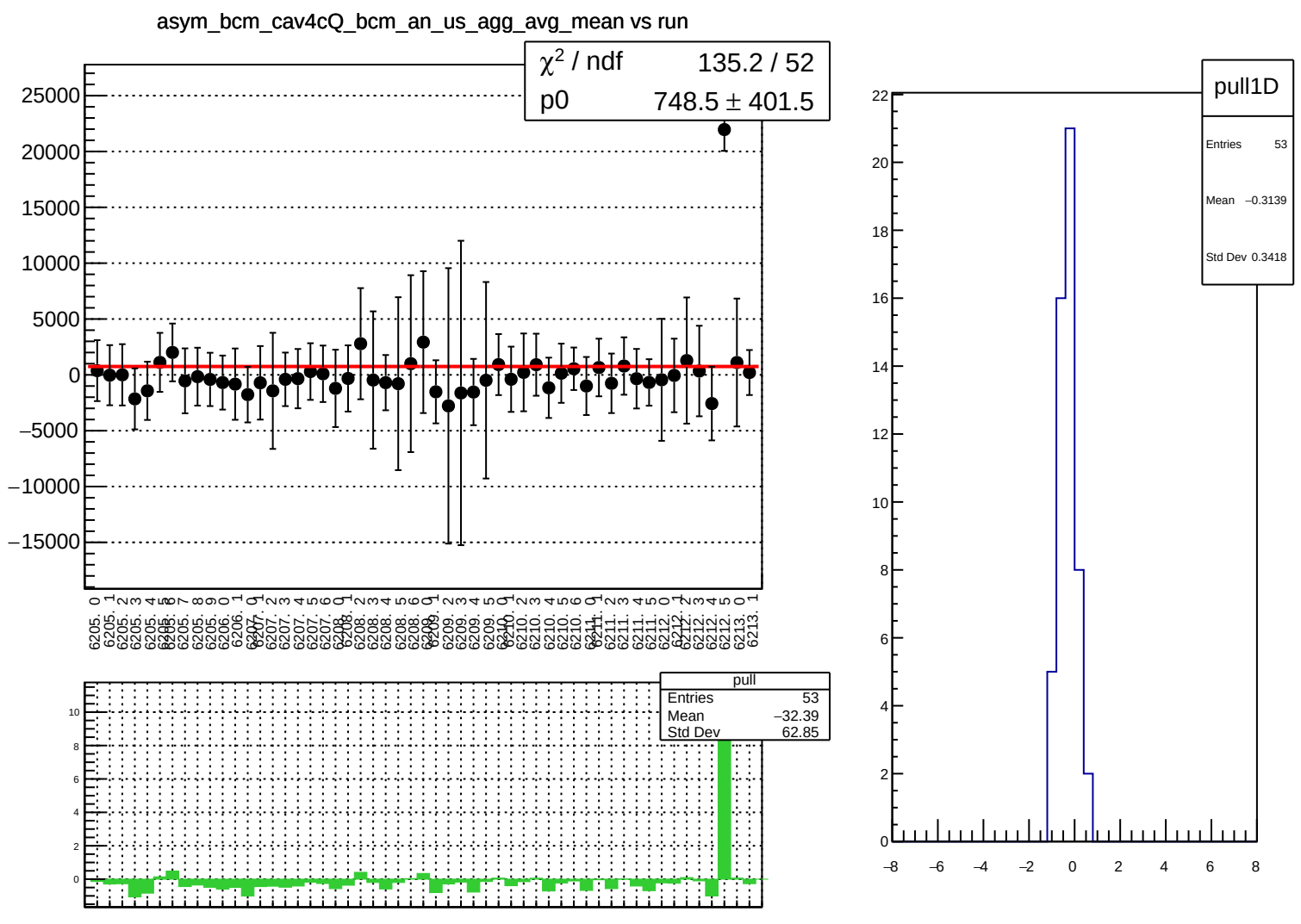
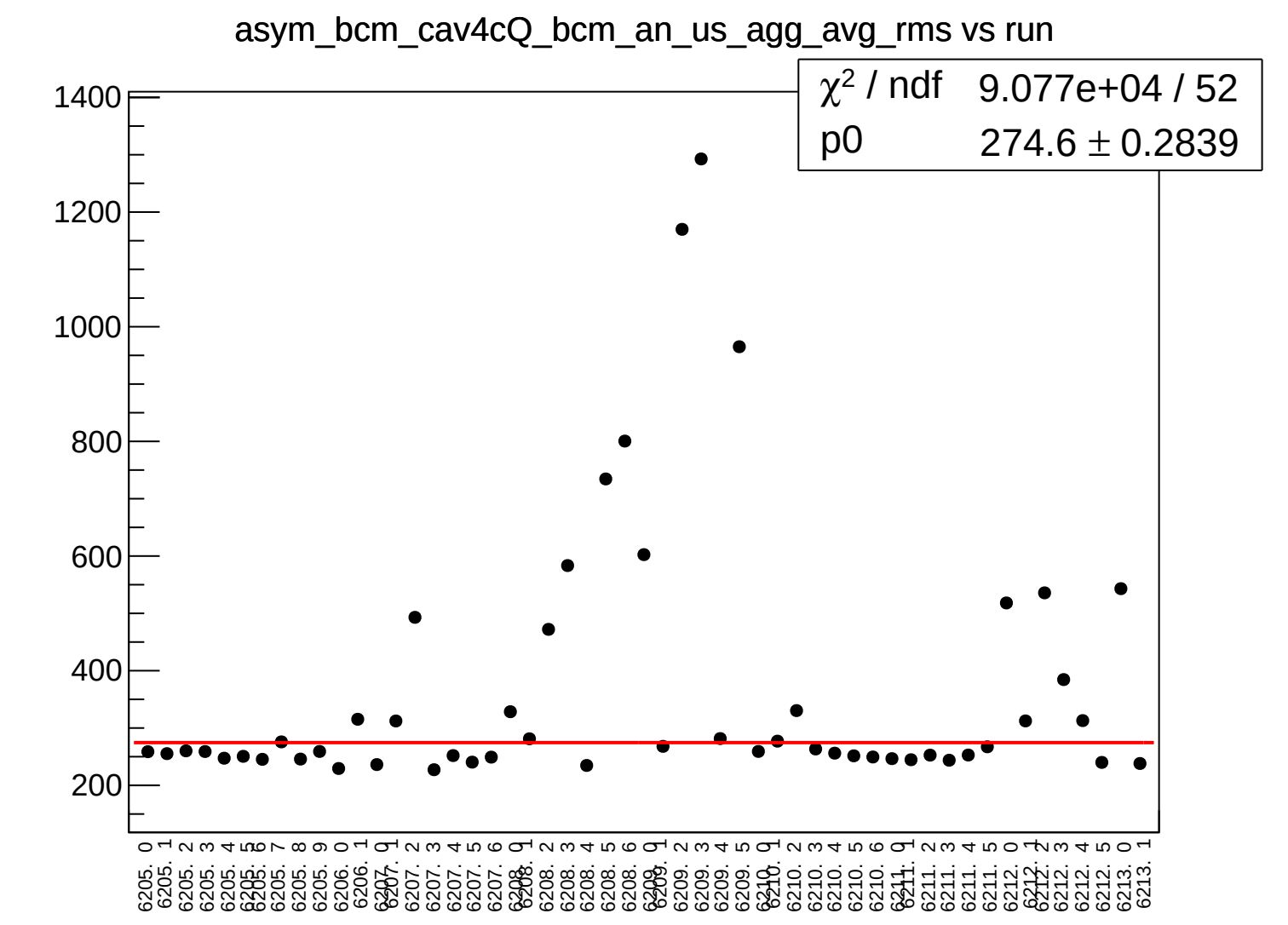
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 135.2 / 52
p0 748.5 ± 401.5
pull
Entries 53
Mean −32.39
Std Dev 62.85
pull1D
Entries 53
Mean −0.3139
Std Dev 0.3418


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.077e+04 / 52
p0 274.6 ± 0.2839
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
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6210. 2
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6210. 6
6211. 2
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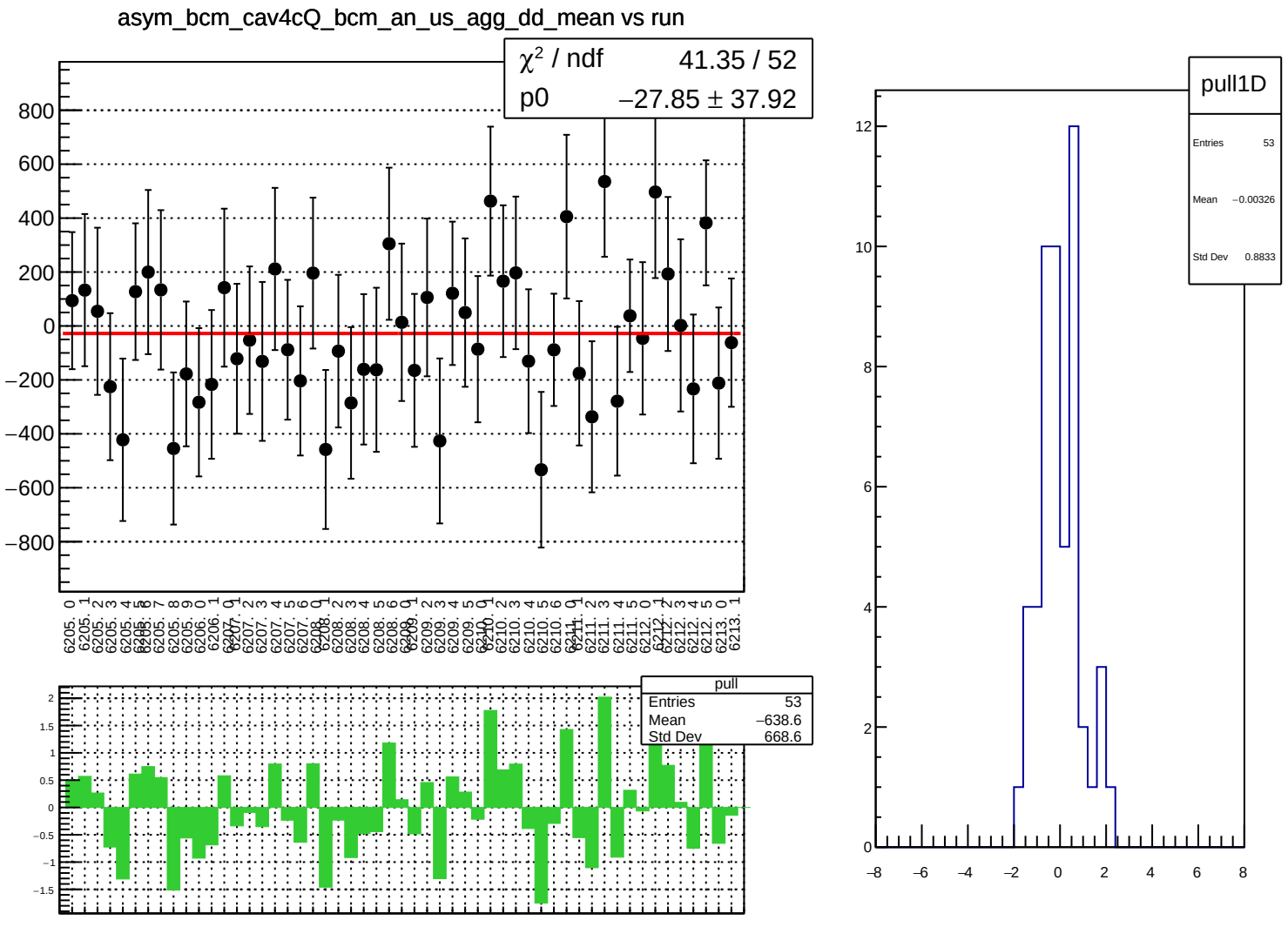
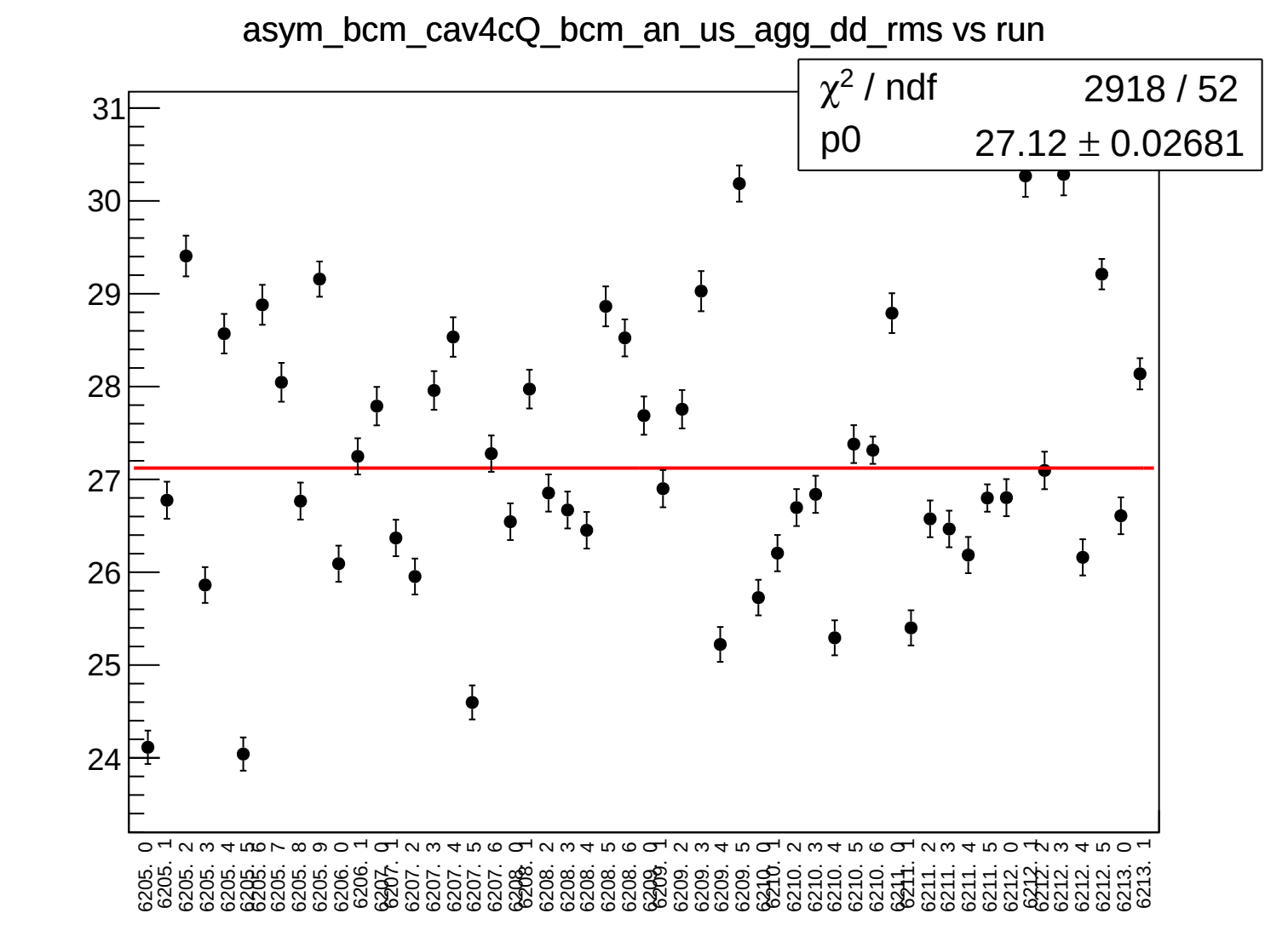
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 41.35 / 52
p0 −27.85 ± 37.92
pull
Entries 53
Mean −638.6
Std Dev 668.6
pull1D
Entries 53
Mean −0.00326
Std Dev 0.8833


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2918 / 52
p0 27.12 ± 0.02681
31
30
29
28
27
26
25
24
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
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6211. 3
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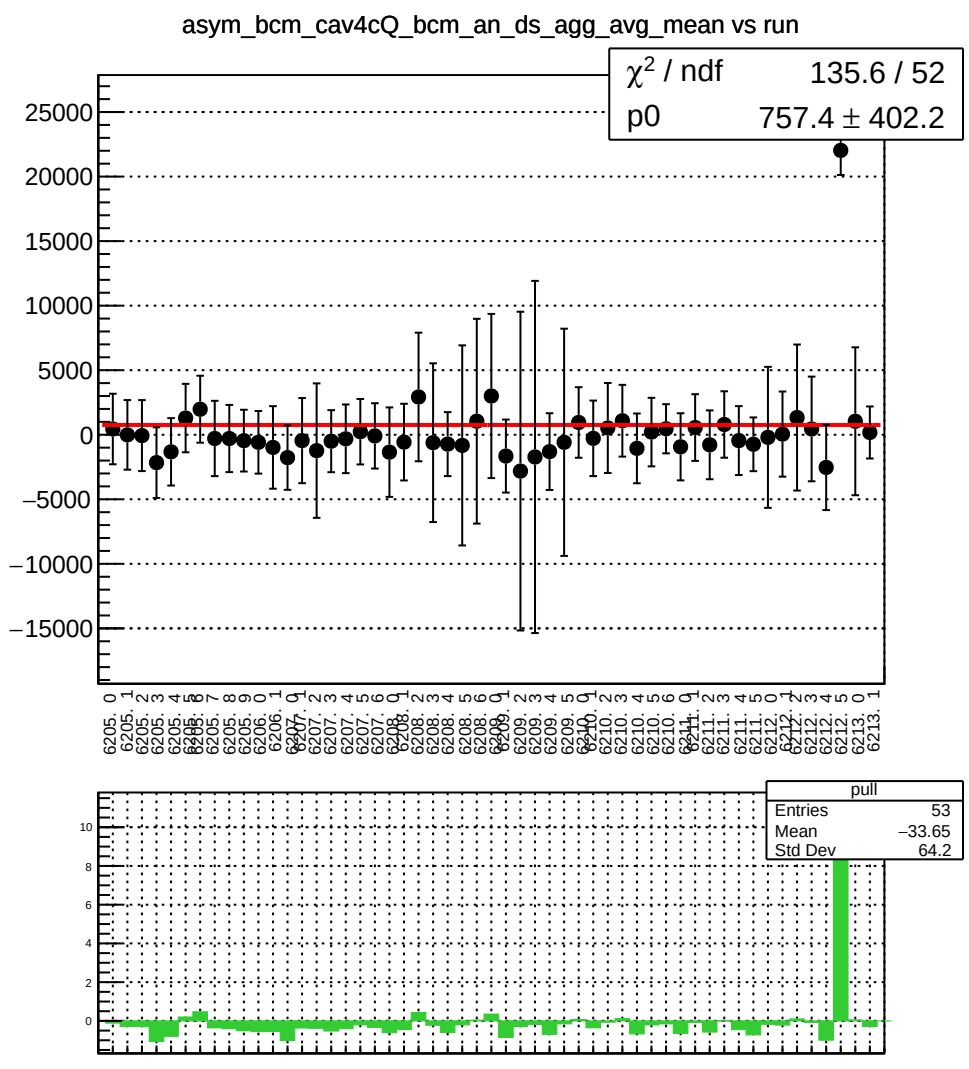
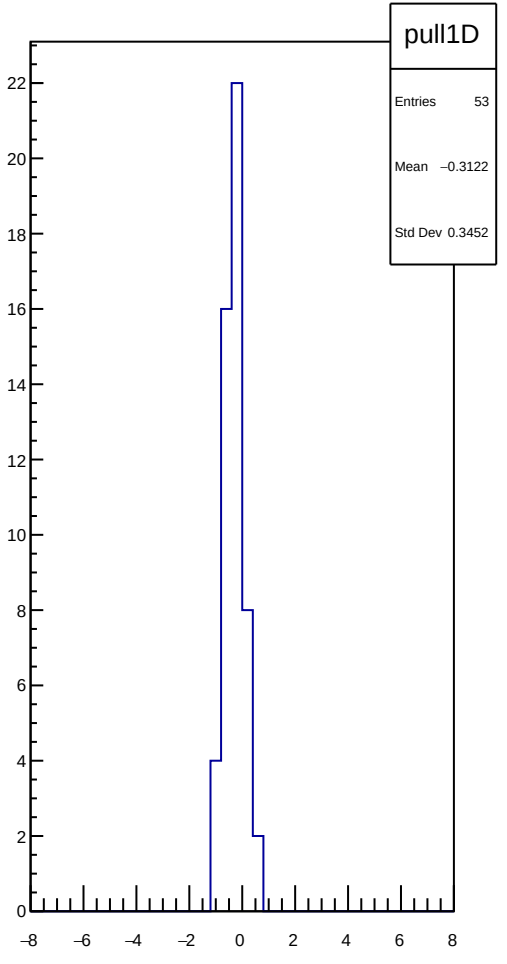
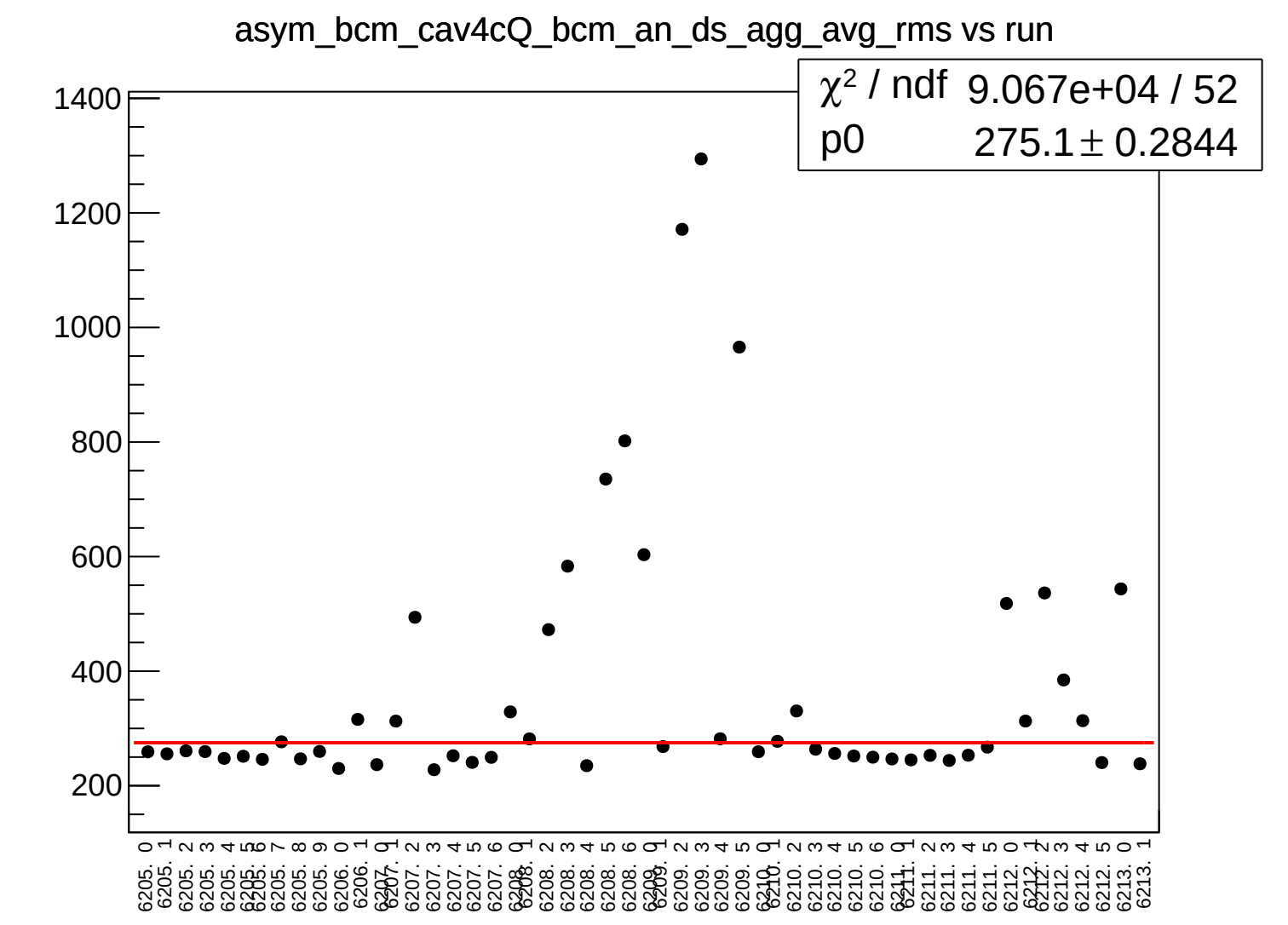
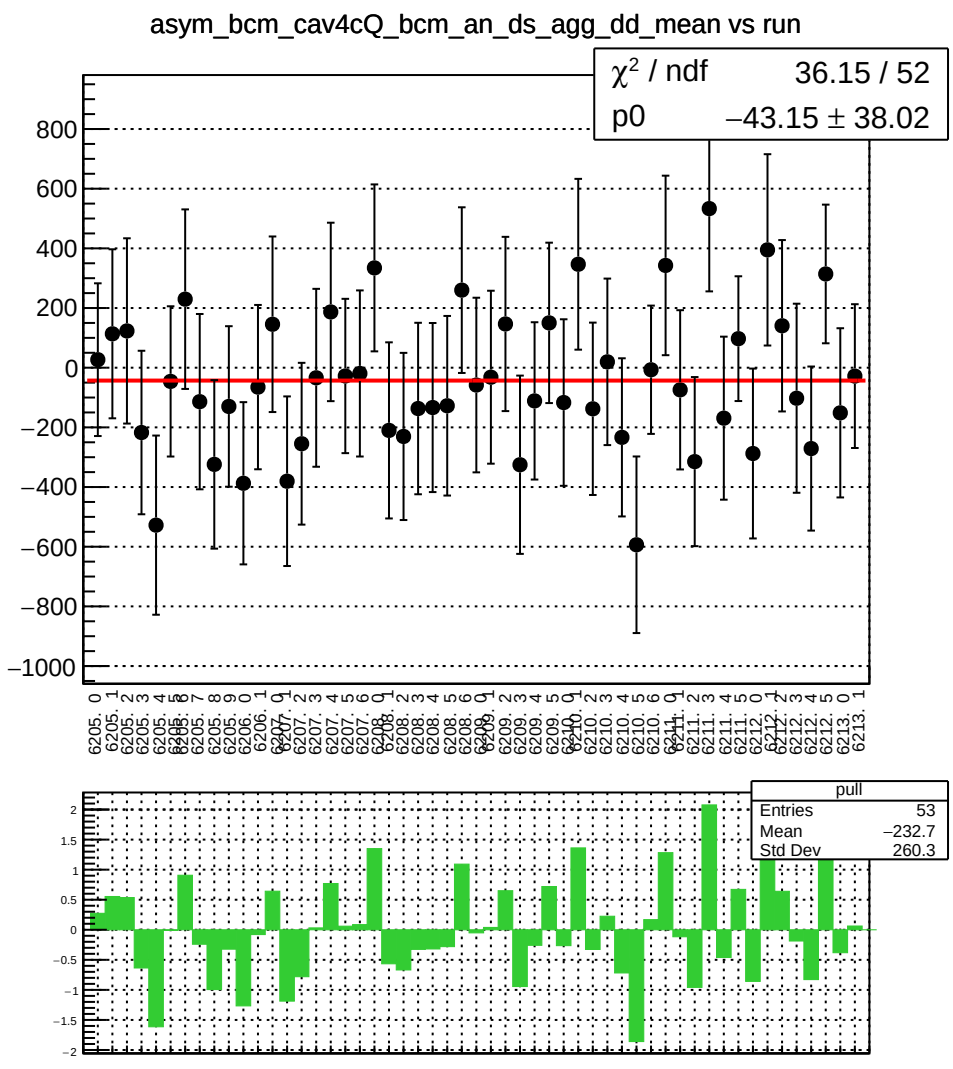
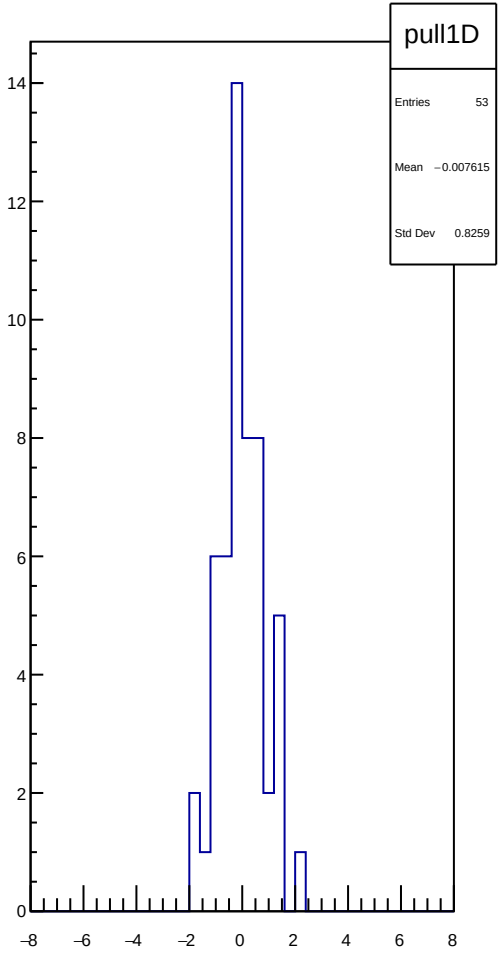
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

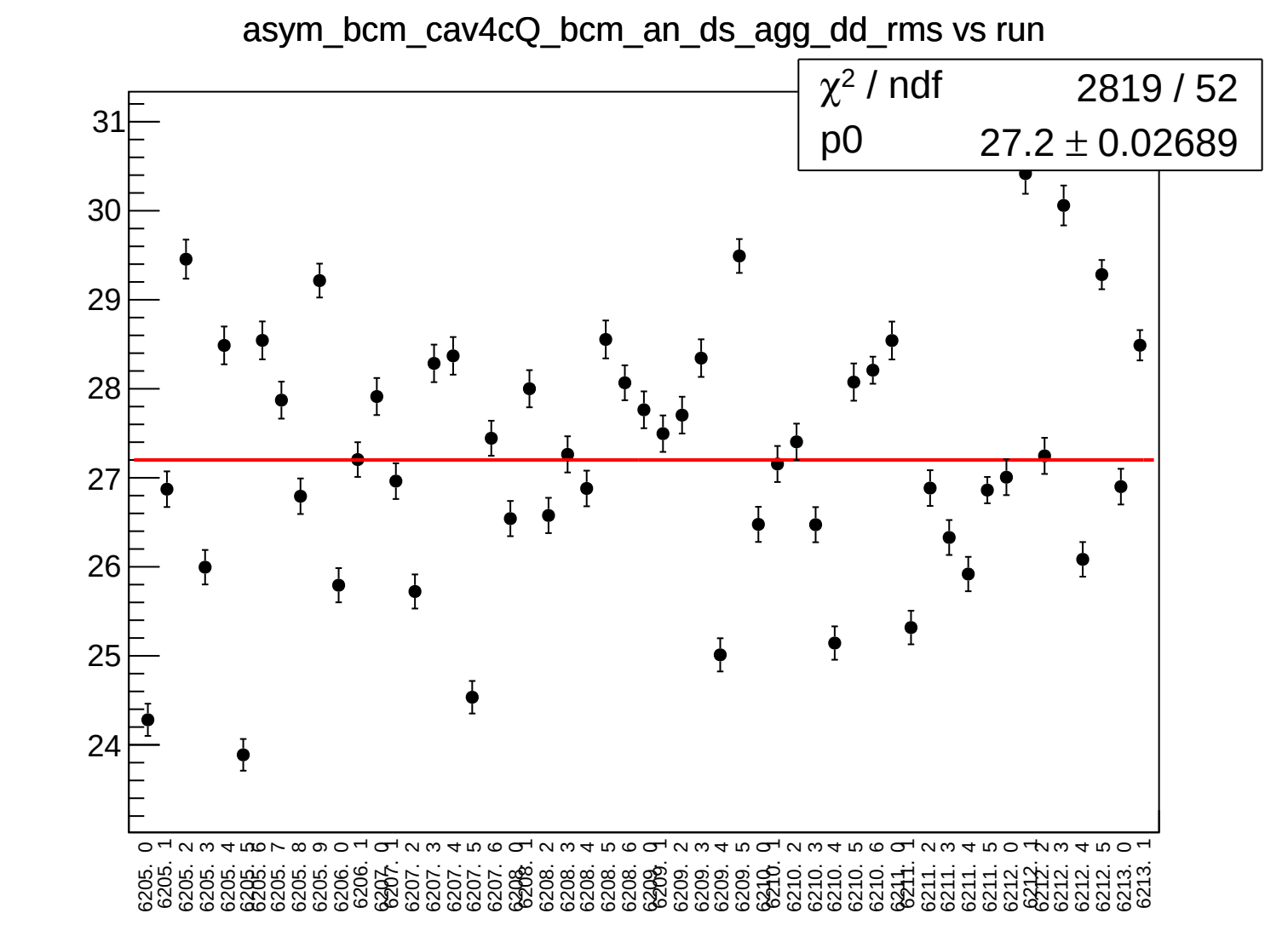

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 135.6 / 52
p0 757.4 ± 402.2
pull
Entries 53
Mean −33.65
Std Dev 64.2

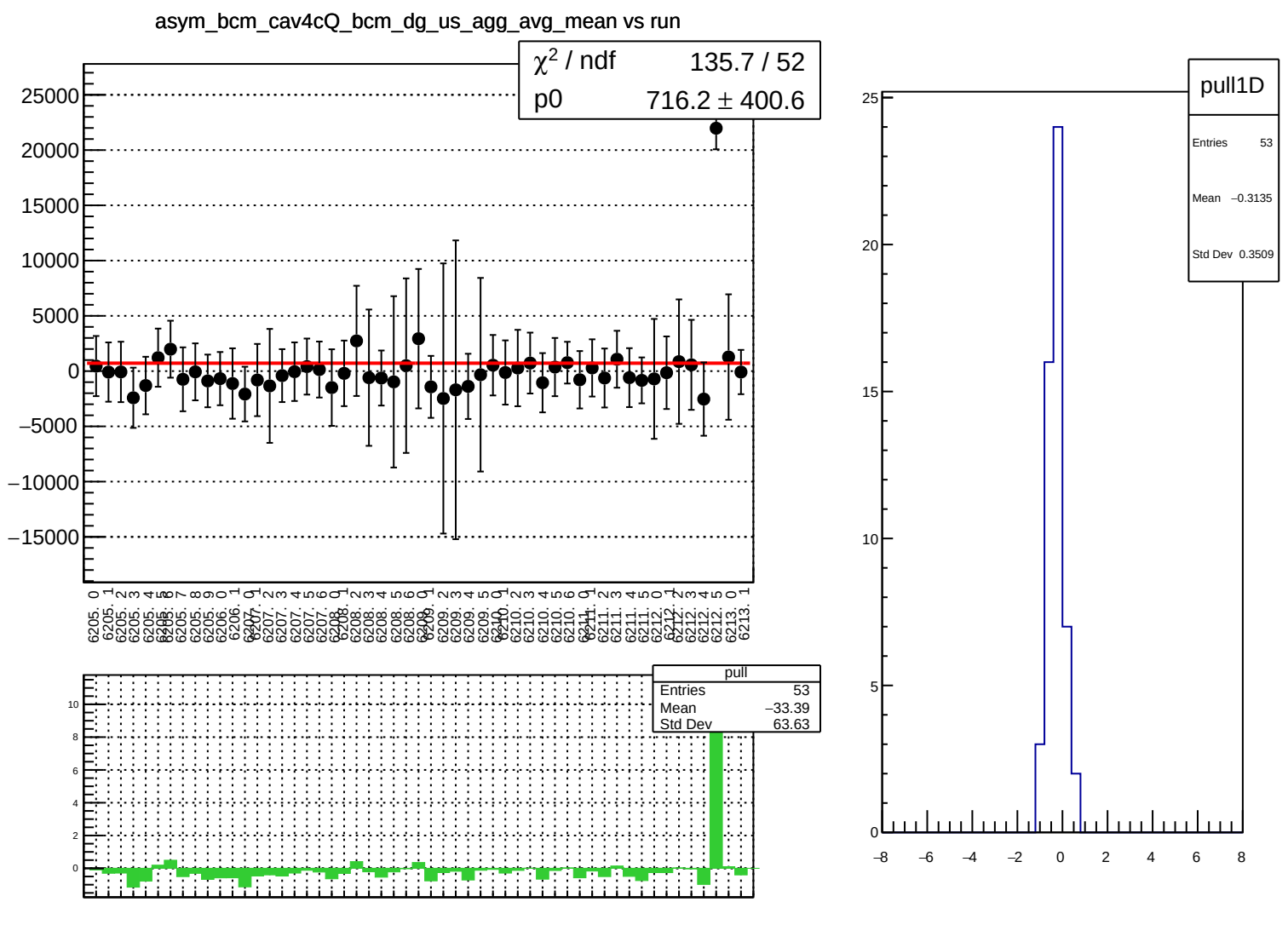

pull1D
Entries 53
Mean −0.3122
Std Dev 0.3452

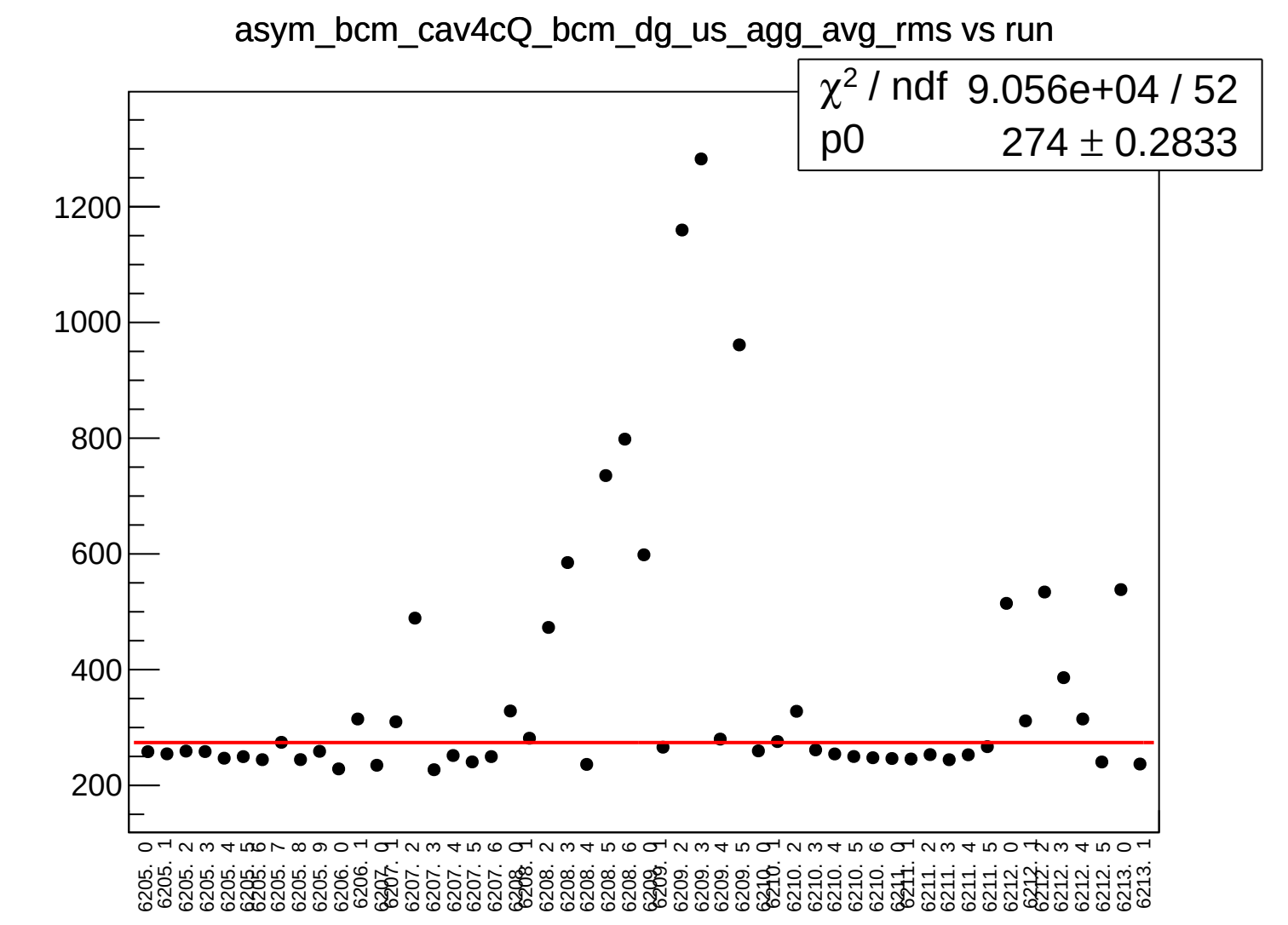

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.067e+04 / 52
p0 275.1 ± 0.2844
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

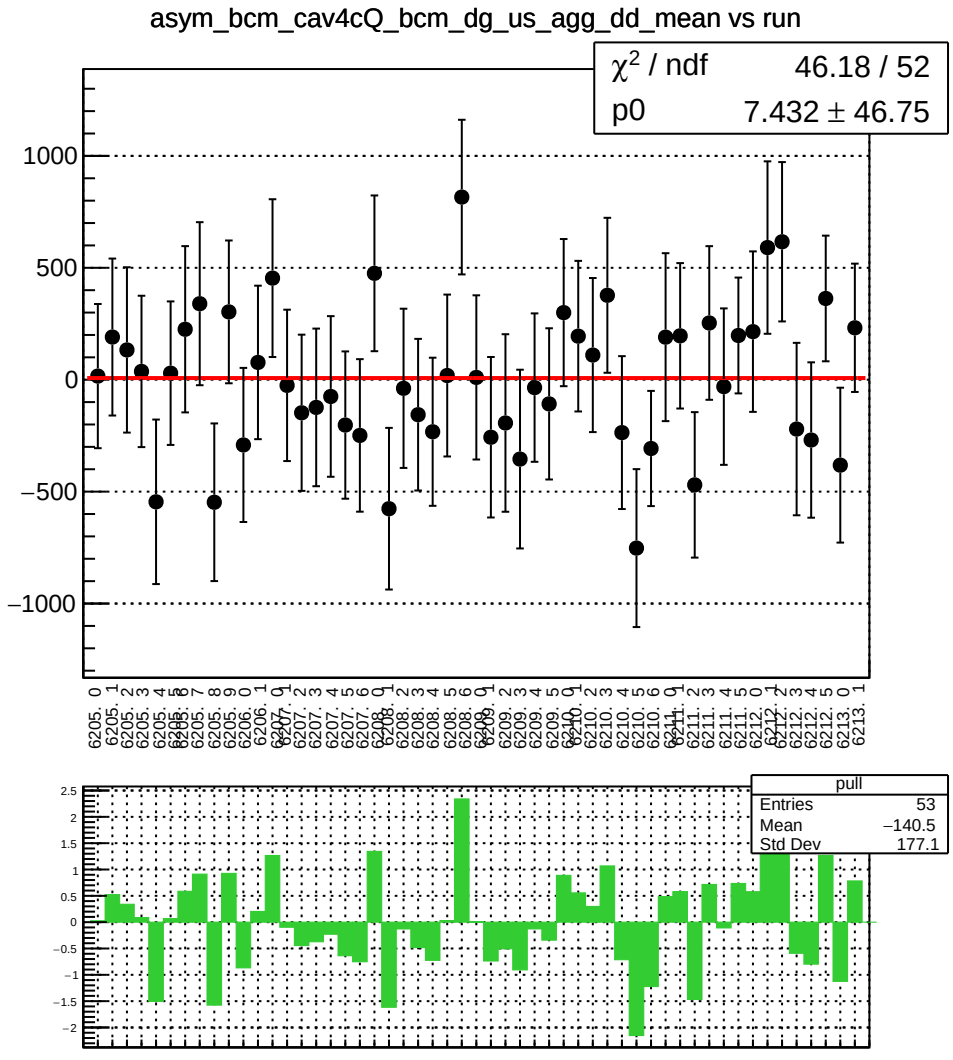

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.15 / 52
p0 −43.15 ± 38.02
pull
Entries 53
Mean −232.7
Std Dev 260.3

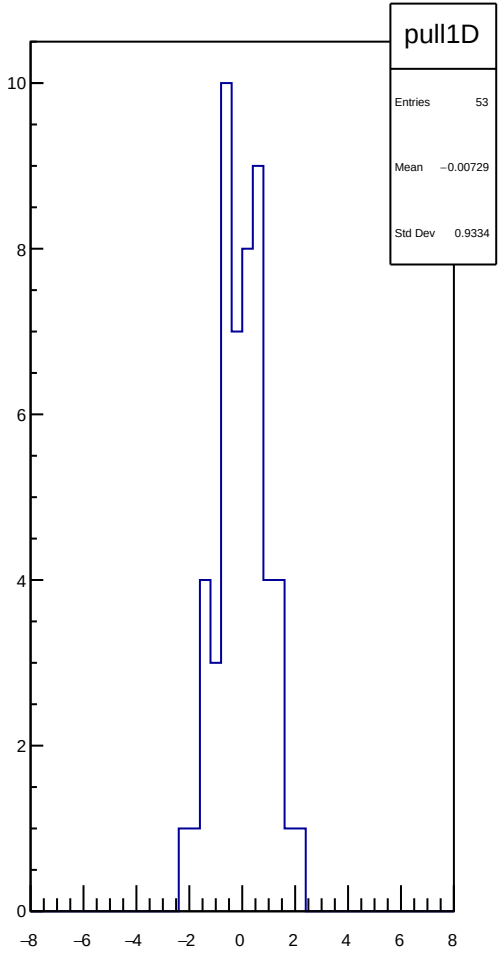

pull1D
Entries 53
Mean −0.007615
Std Dev 0.8259

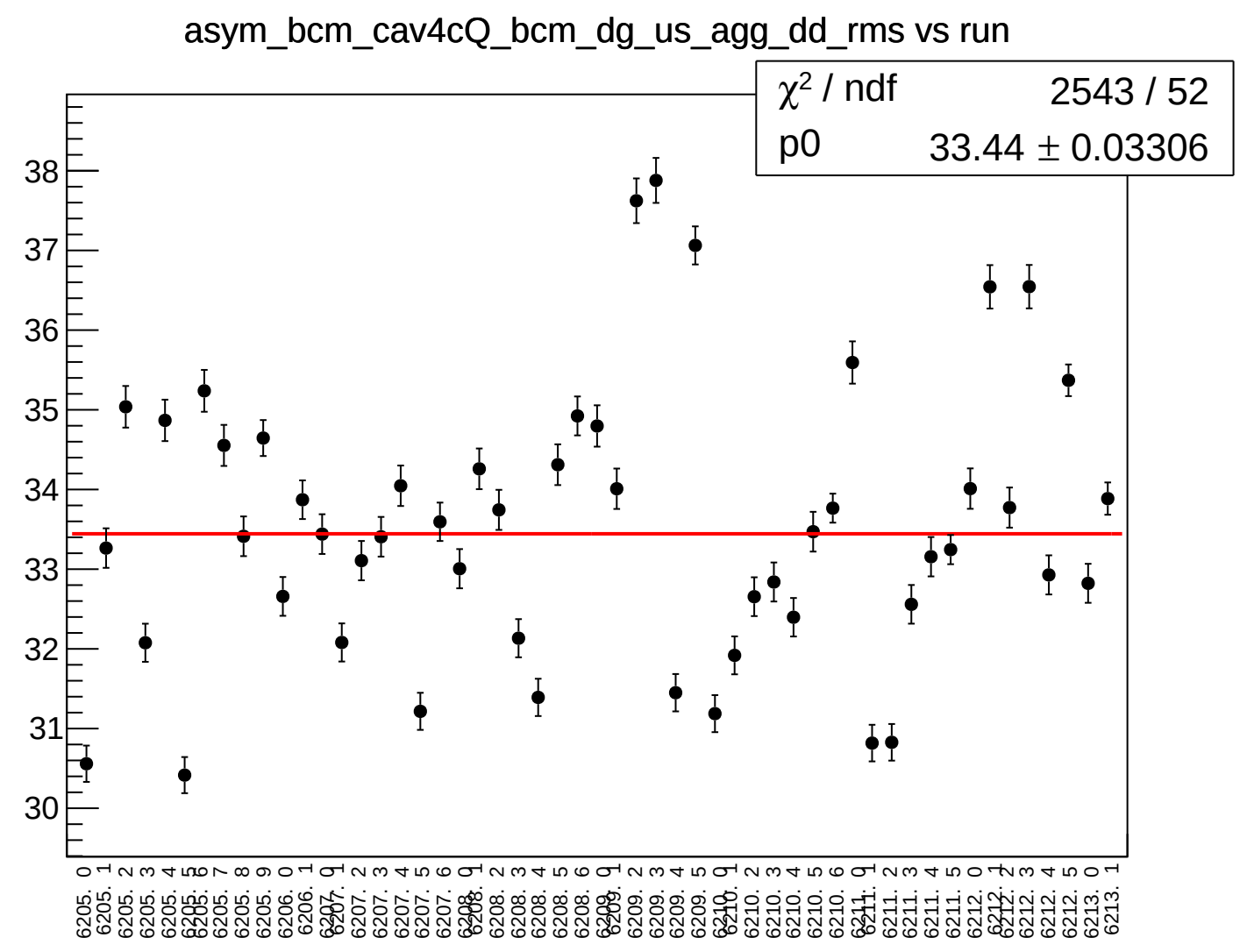

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2819 / 52
p0 27.2 ± 0.02689
31
30
29
28
27
26
25
24
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

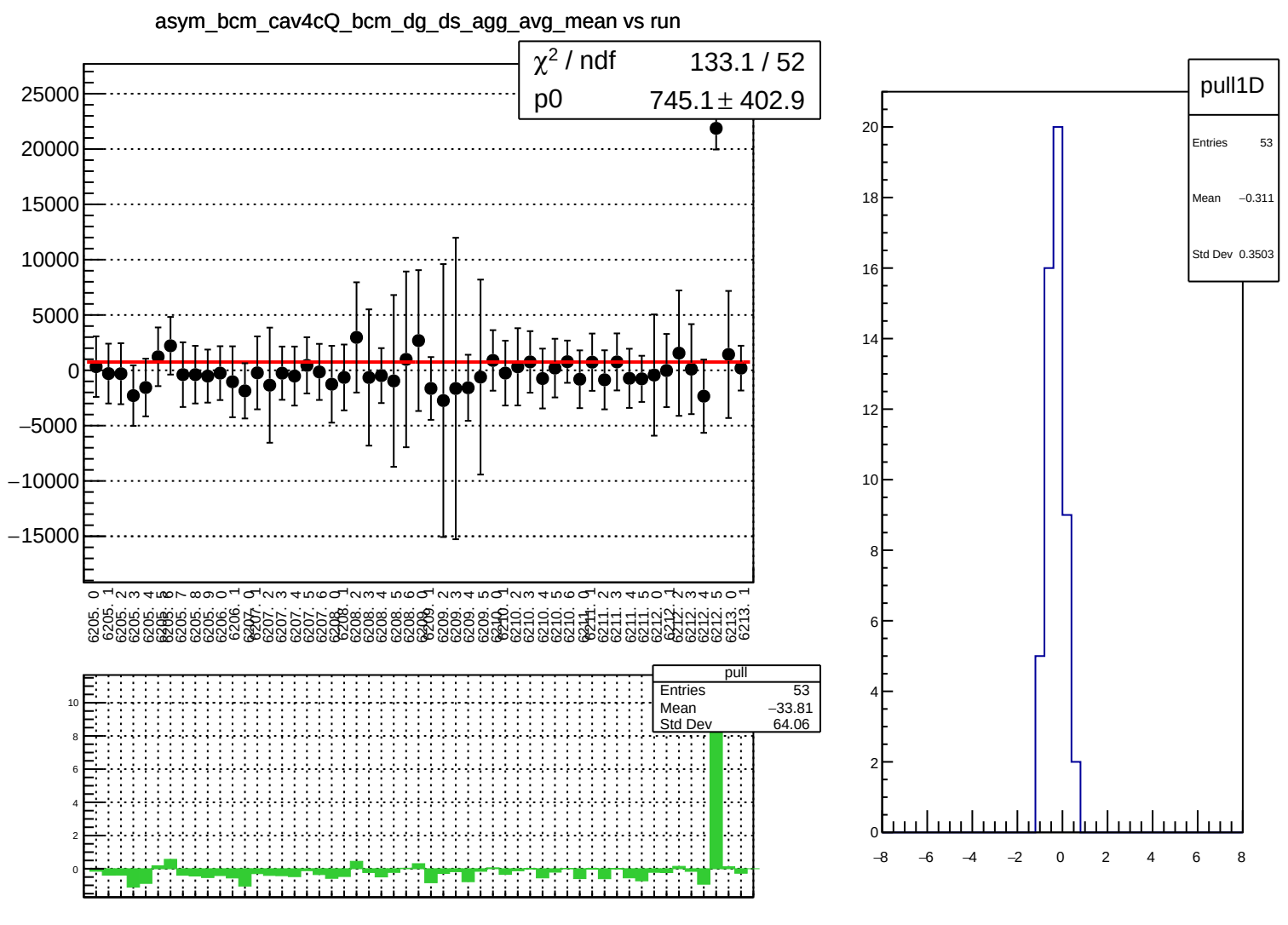

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 135.7 / 52
p0 716.2 ± 400.6
pull
Entries 53
Mean −33.39
Std Dev 63.63
pull1D
Entries 53
Mean −0.3135
Std Dev 0.3509

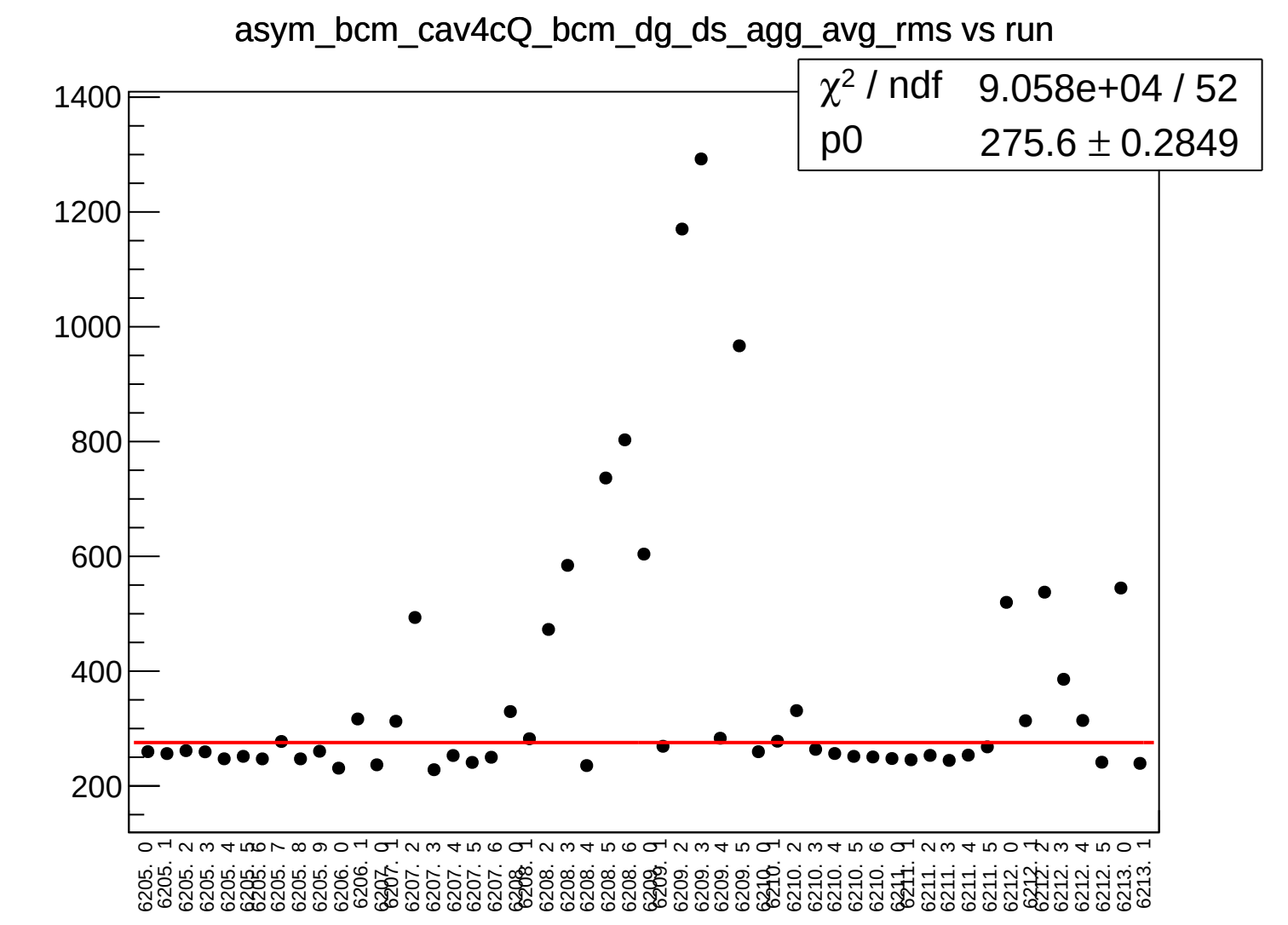

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9.056e+04 / 52
p0 274 ± 0.2833
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

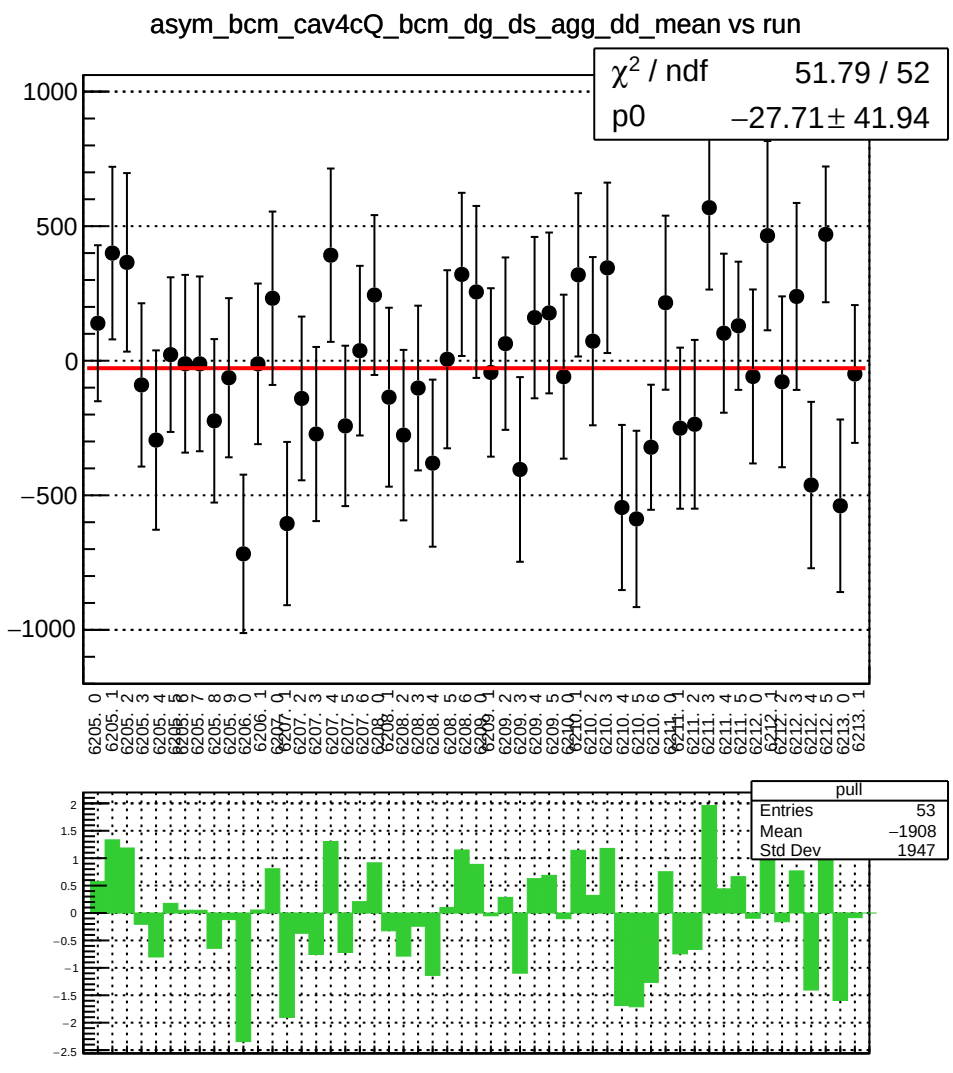

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 46.18 / 52
p0 7.432 ± 46.75
1000
500
0
−500
−1000
pull
Entries 53
Mean −140.5
Std Dev 177.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

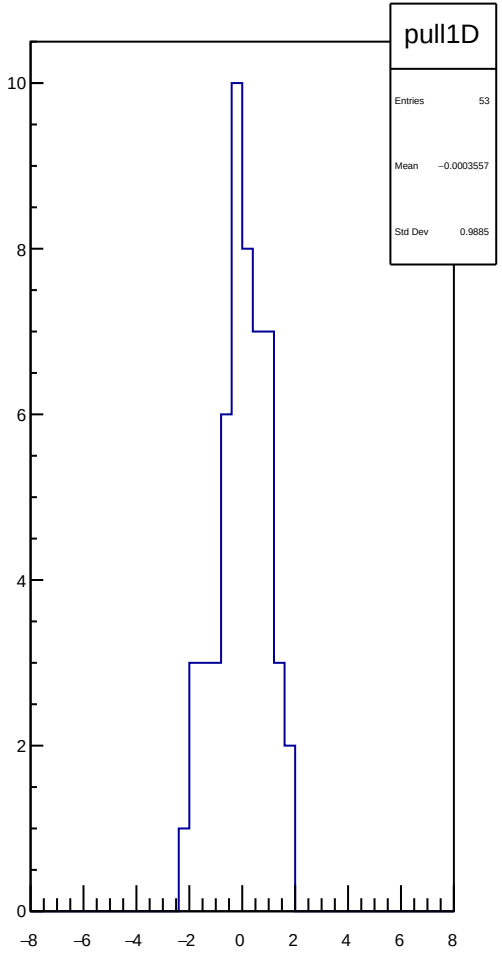

pull1D
Entries 53
Mean −0.00729
Std Dev 0.9334
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

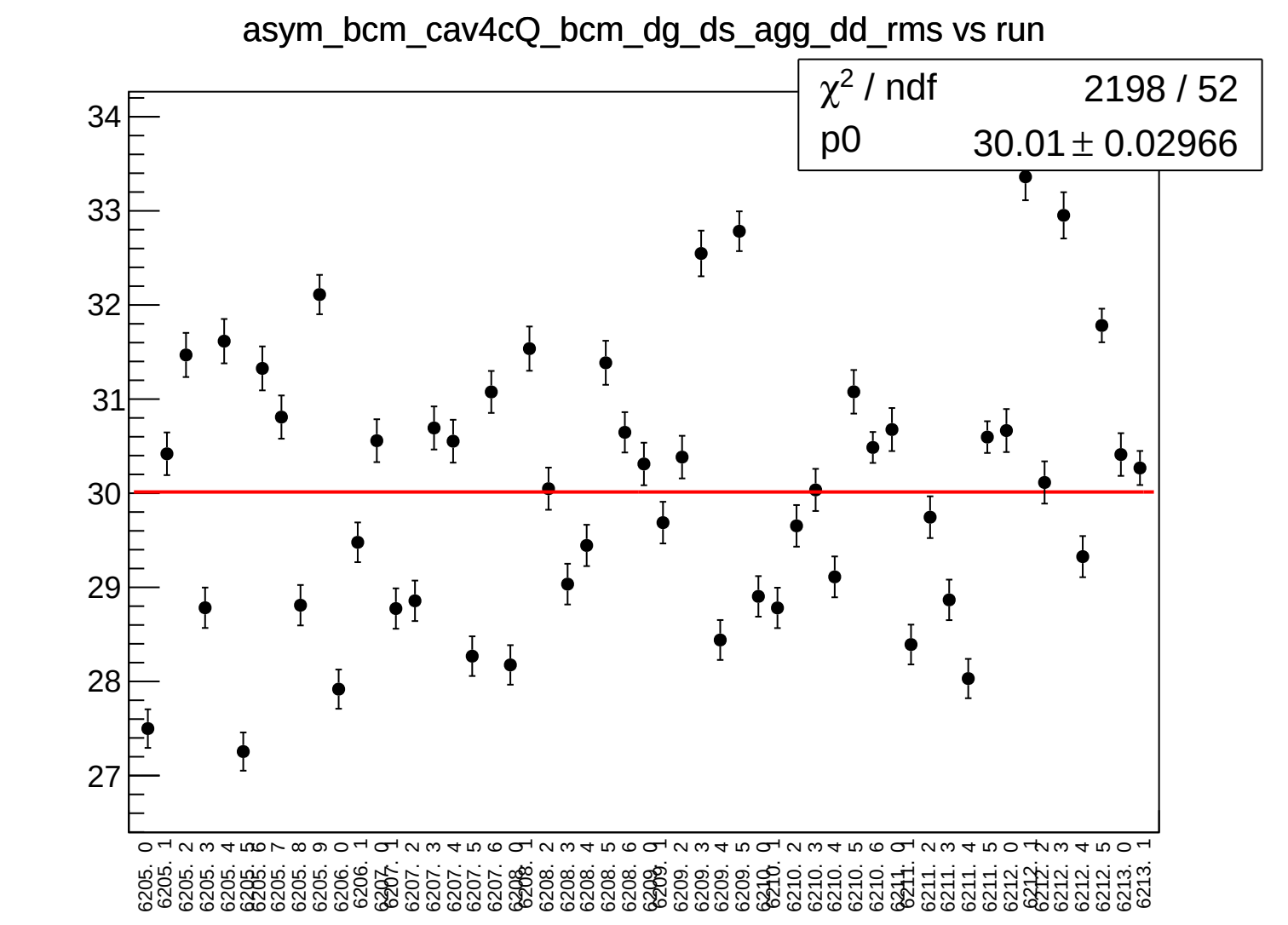

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2543 / 52
p0 33.44 ± 0.03306
38
37
36
35
34
33
32
31
30
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

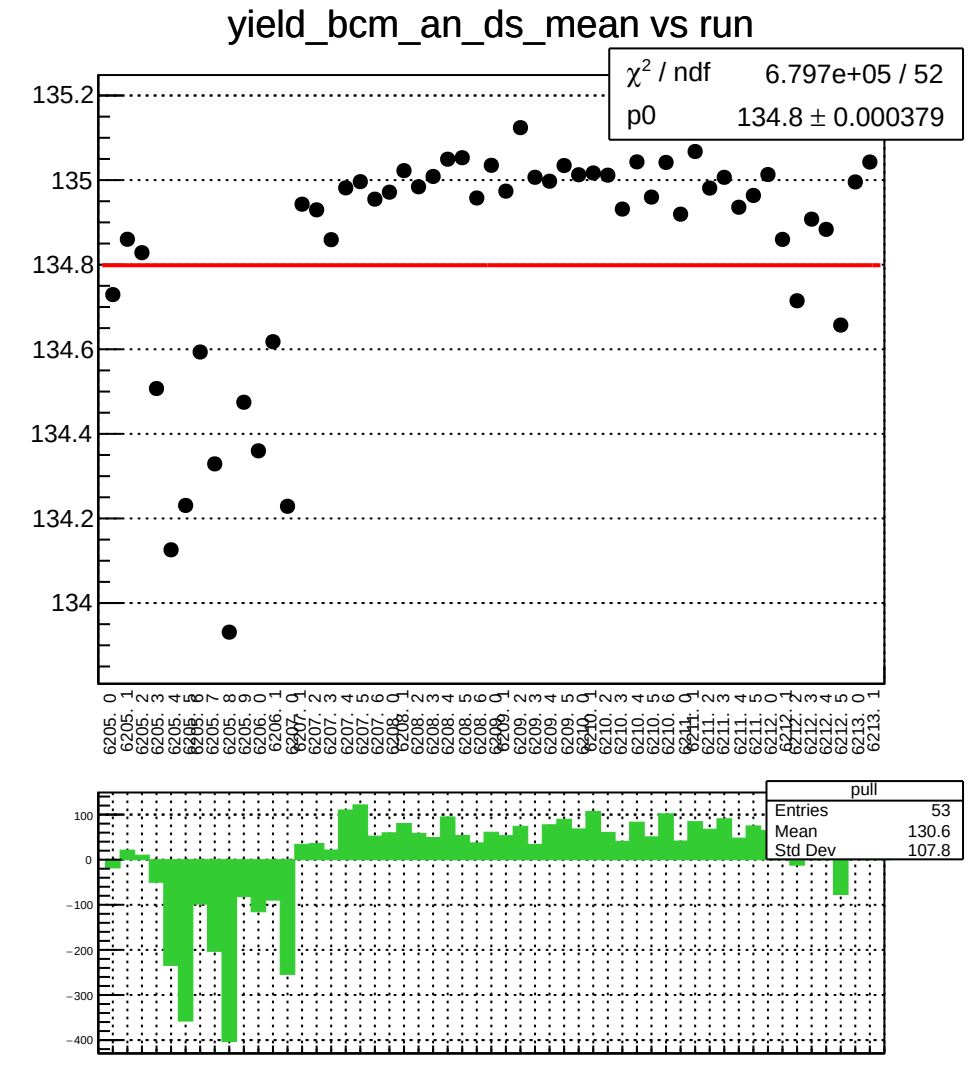

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 133.1 / 52
p0 745.1 ± 402.9
pull
Entries 53
Mean −33.81
Std Dev 64.06
pull1D
Entries 53
Mean −0.311
Std Dev 0.3503

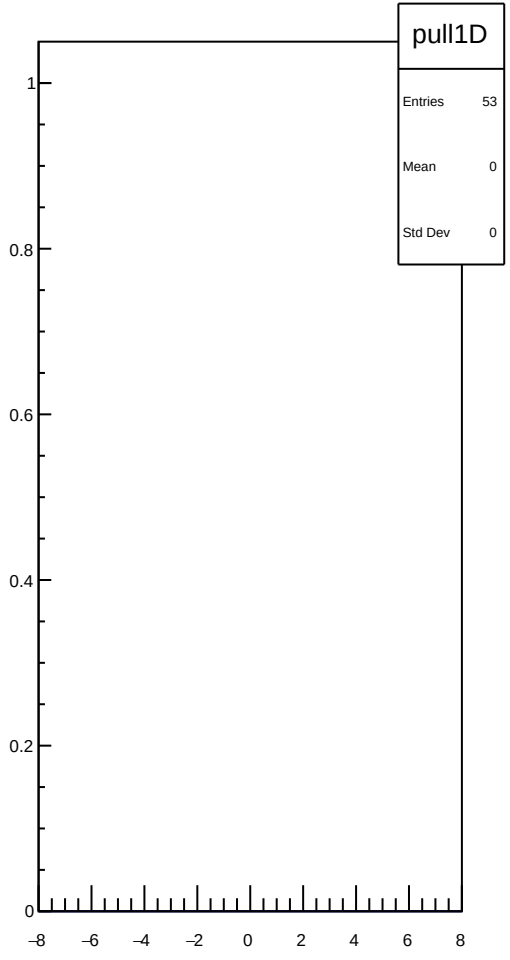

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.058e+04 / 52
p0 275.6 ± 0.2849
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

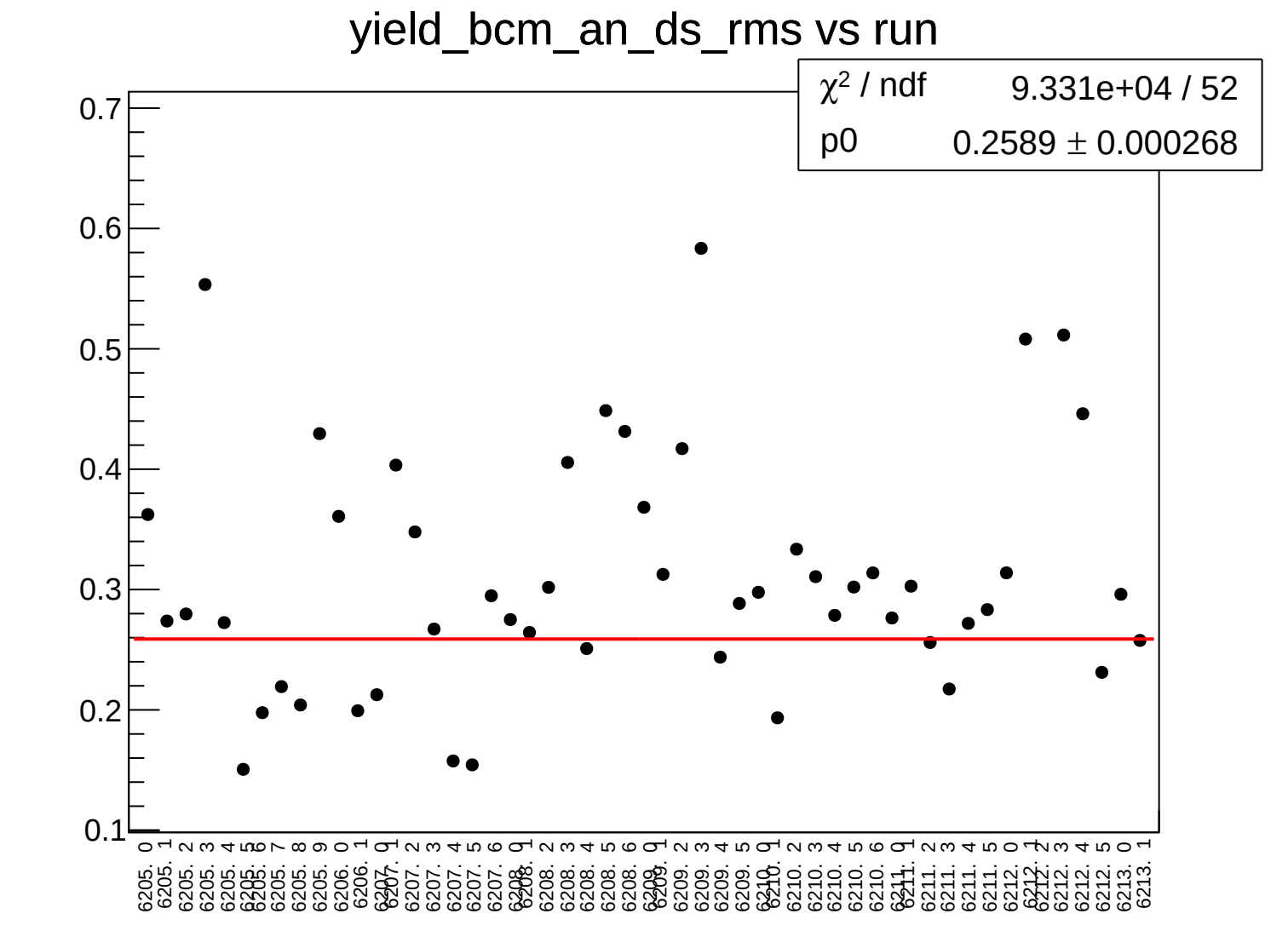

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 51.79 / 52
p0 −27.71± 41.94
1000
500
0
−500
−1000
pull
Entries 53
Mean −1908
Std Dev 1947
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

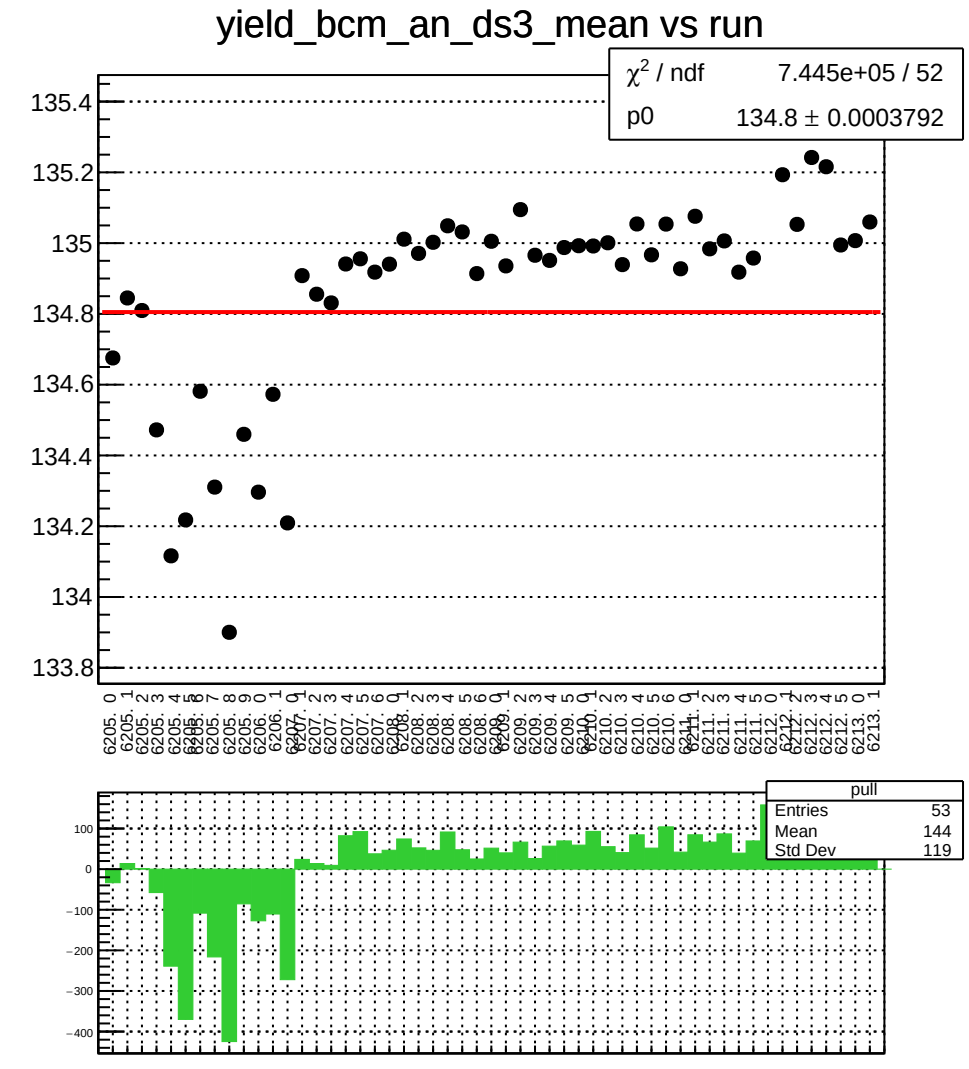

pull1D
Entries 53
Mean −0.0003557
Std Dev 0.9885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

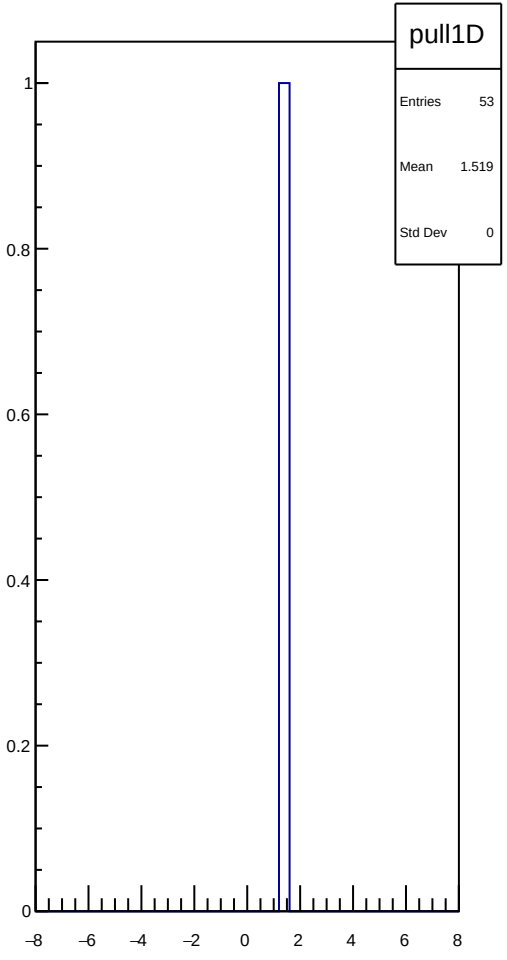

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2198 / 52
p0 30.01 ± 0.02966
34
33
32
31
30
29
28
27
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

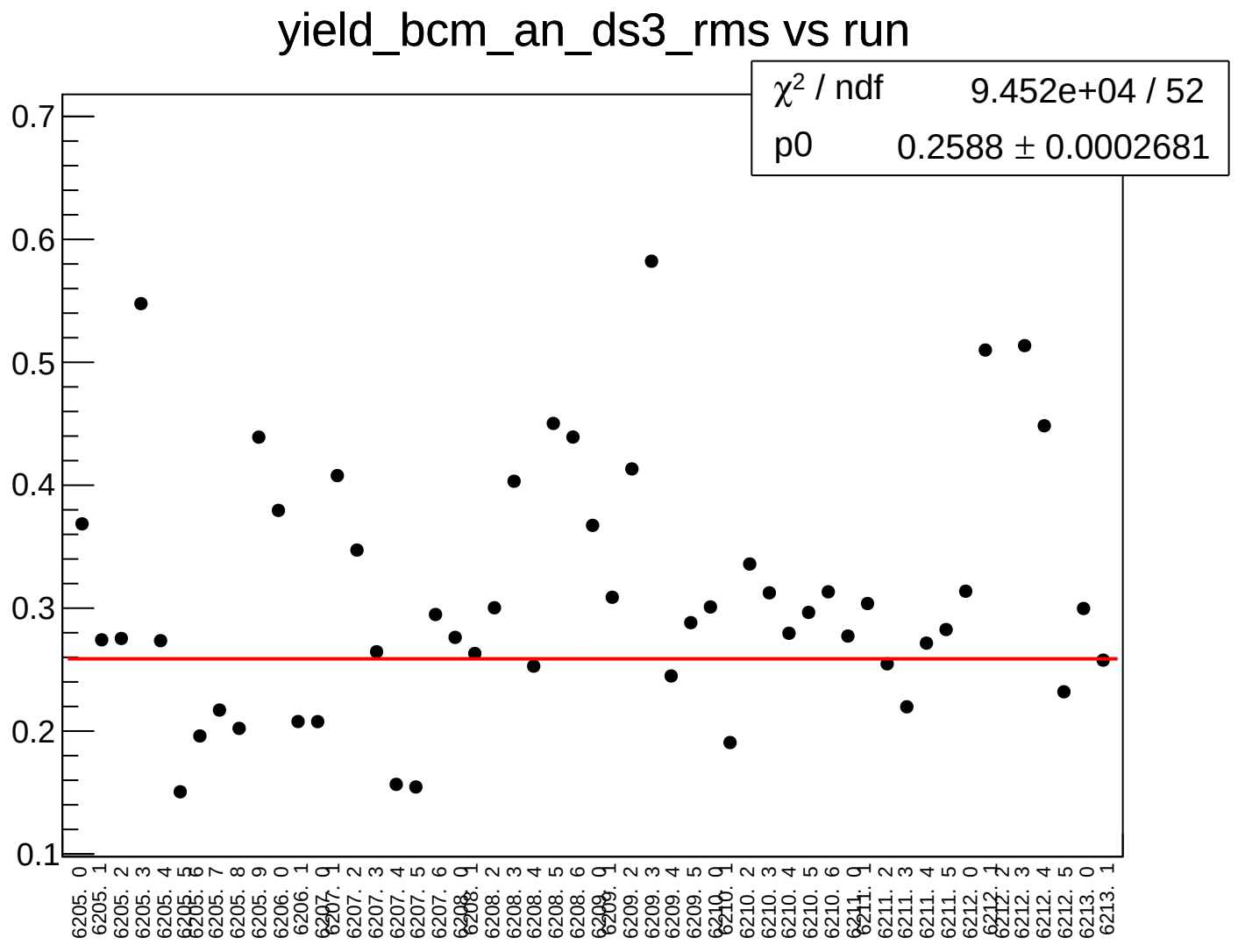

yield_bcm_an_ds_mean vs run
χ² / ndf 6.797e+05 / 52
p0 134.8 ± 0.000379
135.2
135
134.8
134.6
134.4
134.2
134
pull
Entries 53
Mean 130.6
Std Dev 107.8
100
0
−100
−200
−300
−400

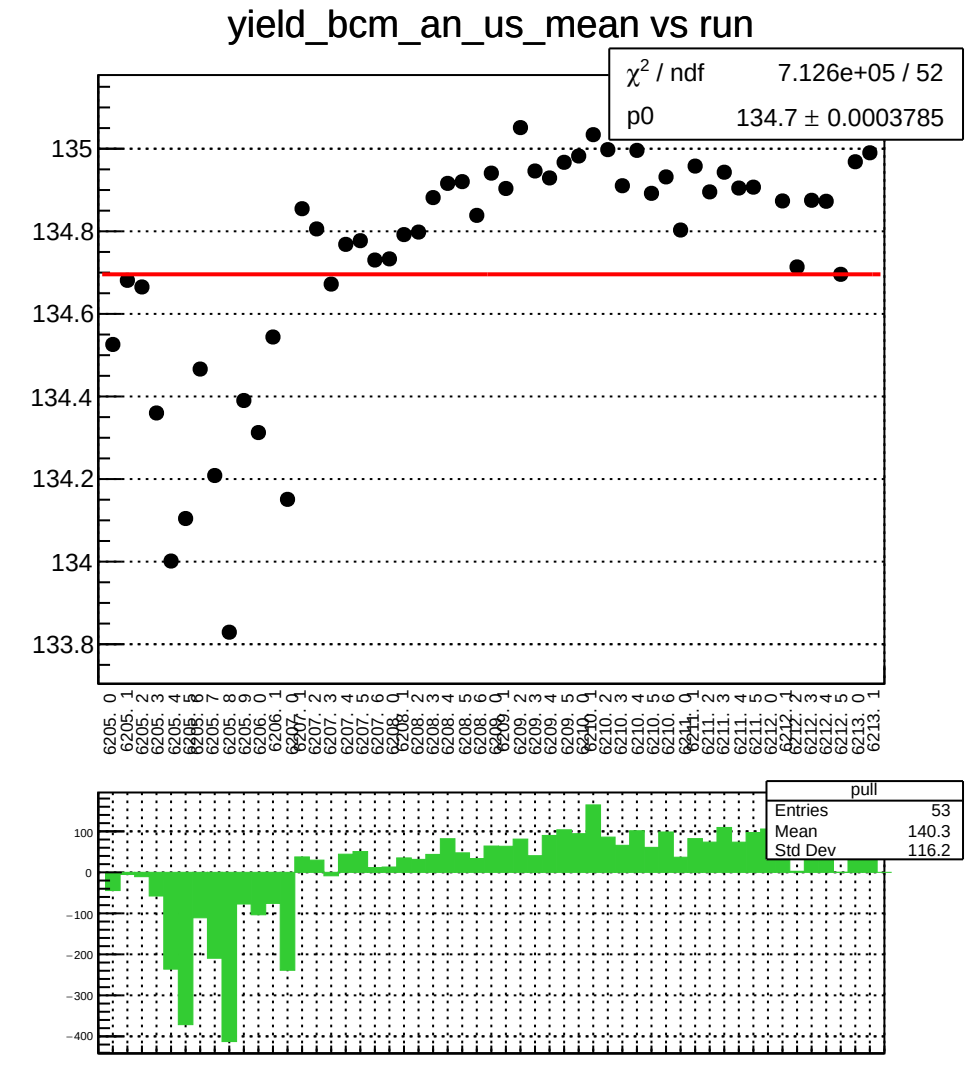

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

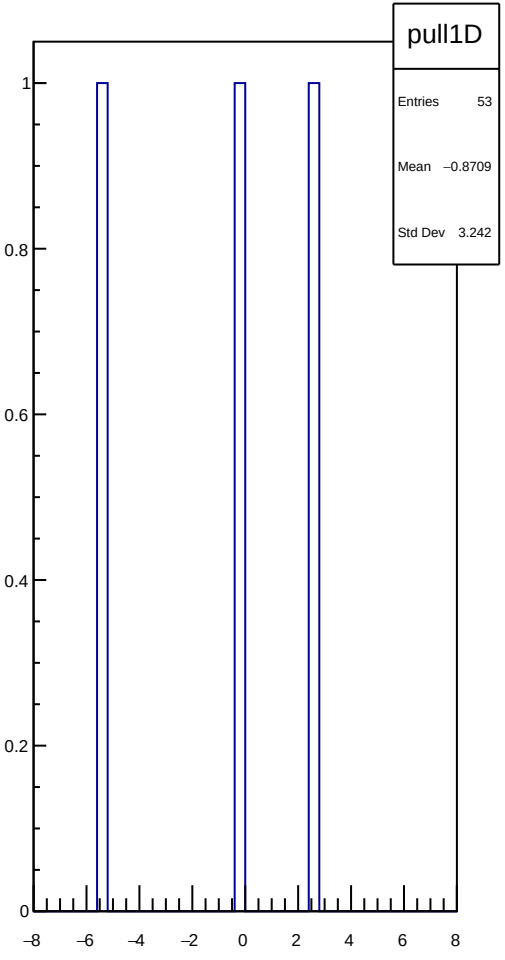

yield_bcm_an_ds_rms vs run
χ² / ndf 9.331e+04 / 52
p0 0.2589 ± 0.000268
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

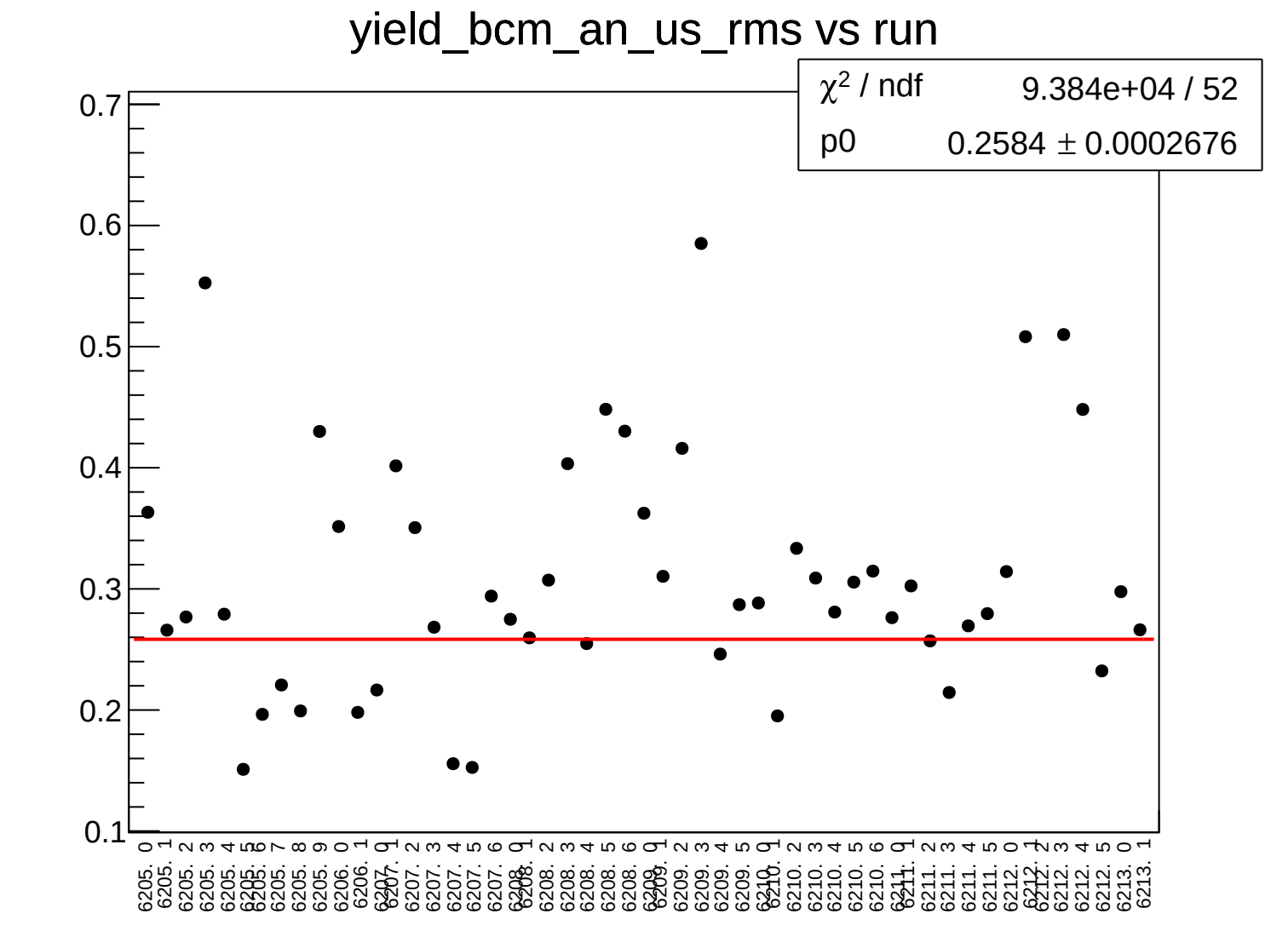

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.445e+05 / 52
p0 134.8 ± 0.0003792
135.4
135.2
135
134.8
134.6
134.4
134.2
134
133.8
pull
Entries 53
Mean 144
Std Dev 119
100
0
−100
−200
−300
−400

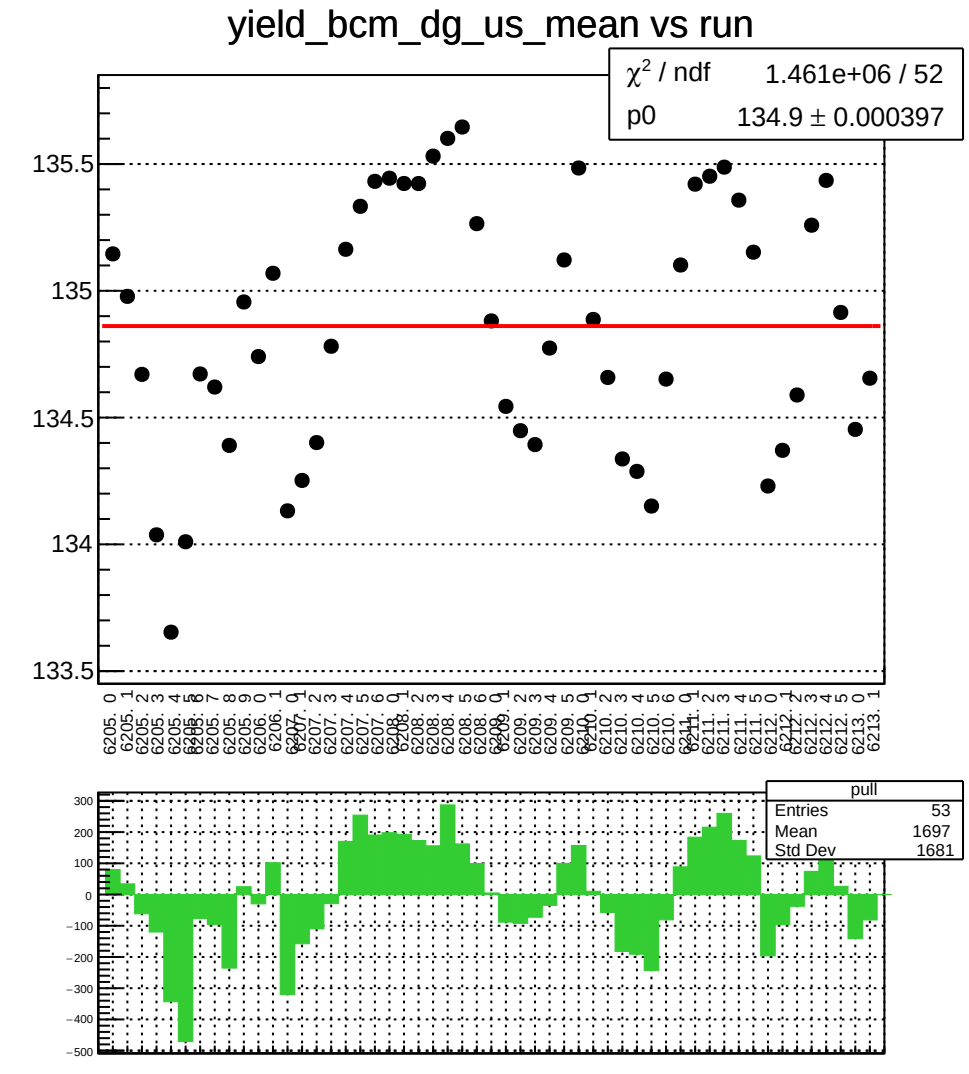

pull1D
Entries 53
Mean 1.519
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

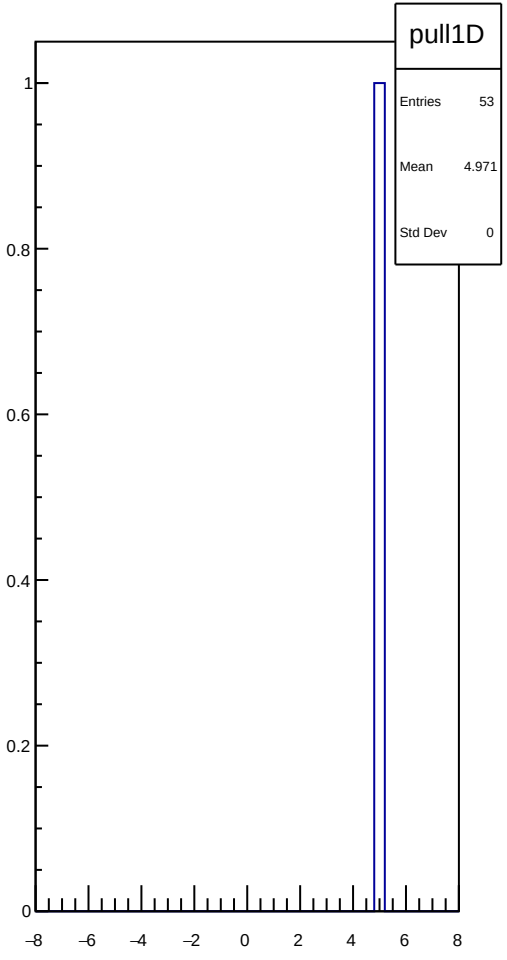

yield_bcm_an_ds3_rms vs run
χ² / ndf 9.452e+04 / 52
p0 0.2588 ± 0.0002681
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

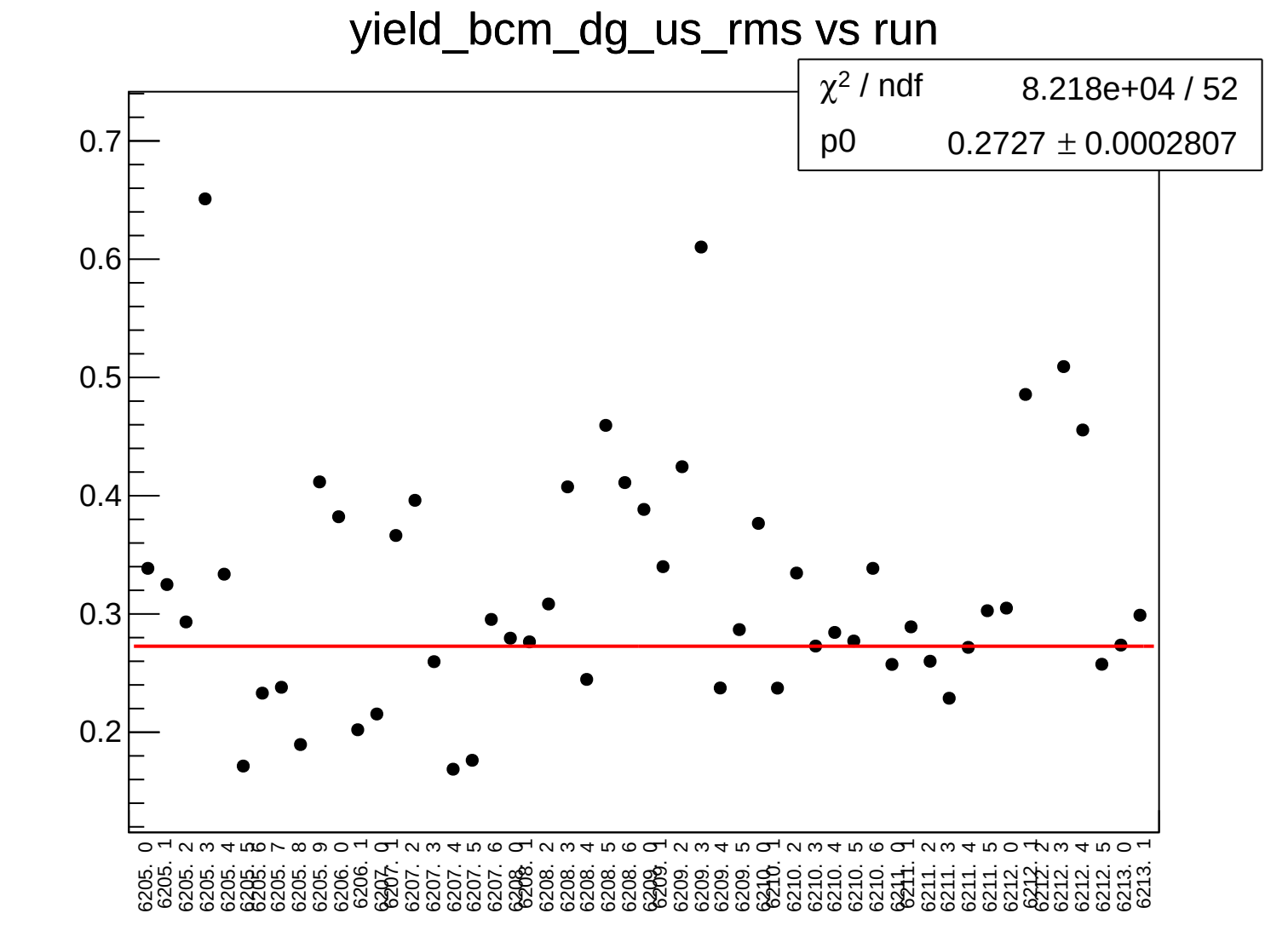

yield_bcm_an_us_mean vs run
χ² / ndf 7.126e+05 / 52
p0 134.7 ± 0.0003785
135
134.8
134.6
134.4
134.2
134
133.8
pull
Entries 53
Mean 140.3
Std Dev 116.2
100
0
−100
−200
−300
−400

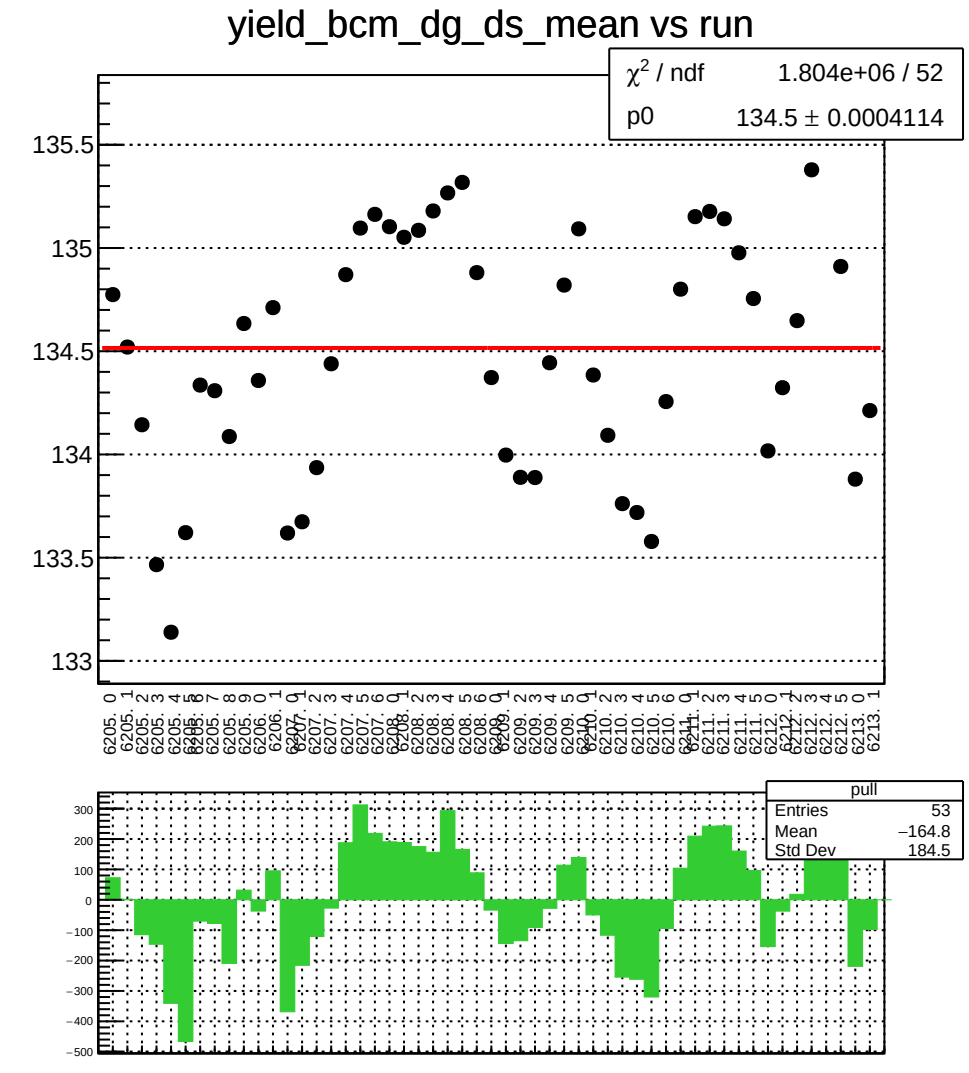

pull1D
Entries 53
Mean −0.8709
Std Dev 3.242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

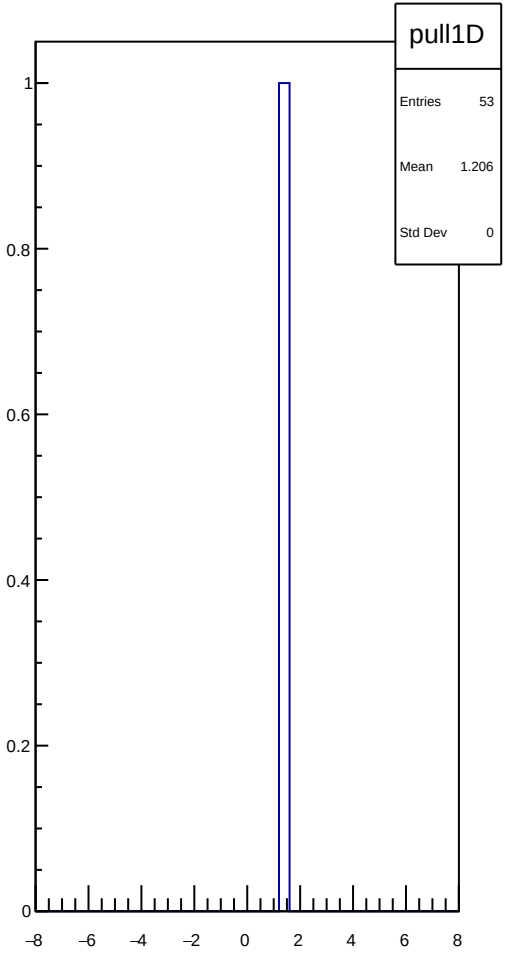

yield_bcm_an_us_rms vs run
χ2 / ndf 9.384e+04 / 52
p0 0.2584 ± 0.0002676
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

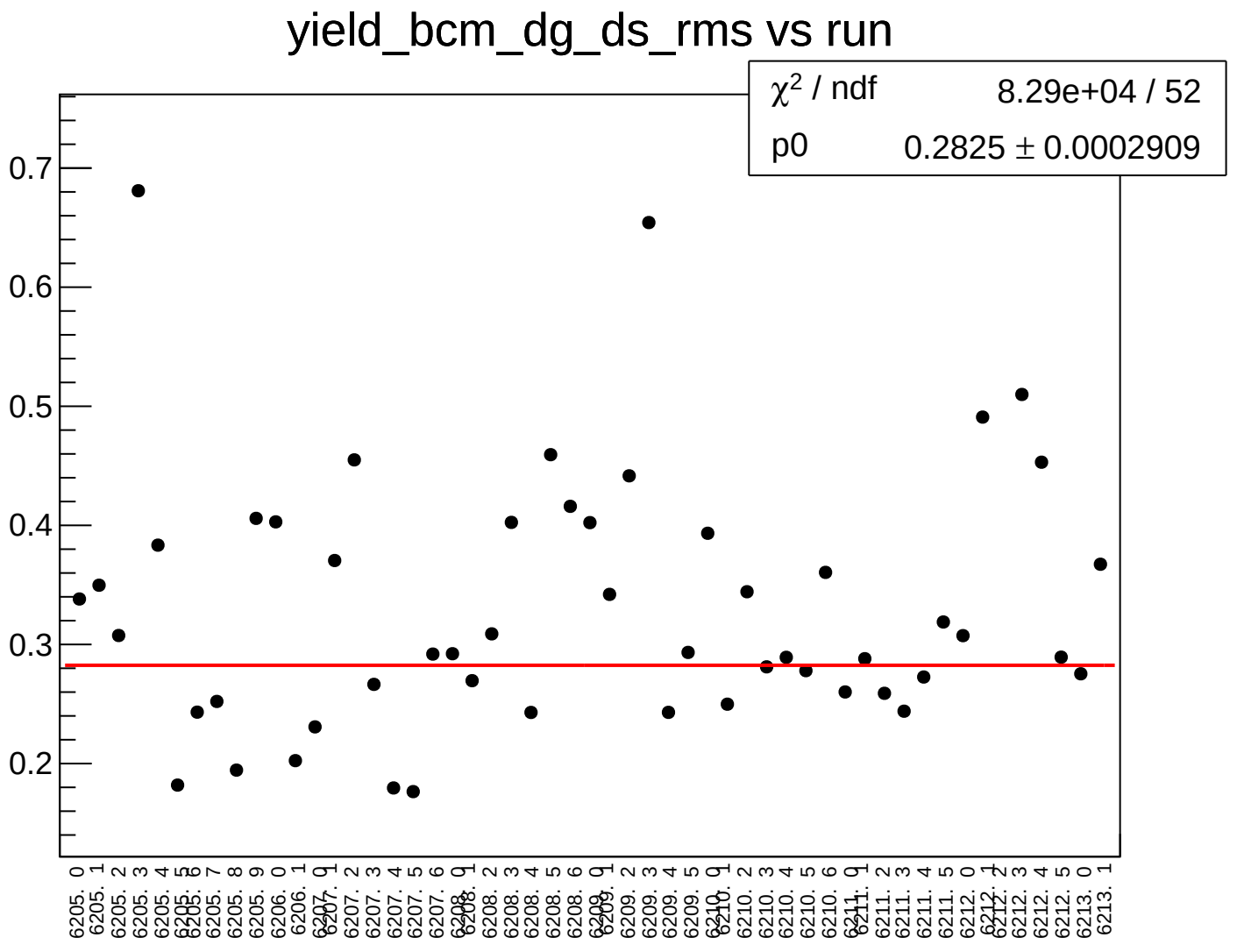

yield_bcm_dg_us_mean vs run
χ² / ndf 1.461e+06 / 52
p0 134.9 ± 0.000397
135.5
135
134.5
134
133.5
pull
Entries 53
Mean 1697
Std Dev 1681
300
200
100
0
−100
−200
−300
−400
−500

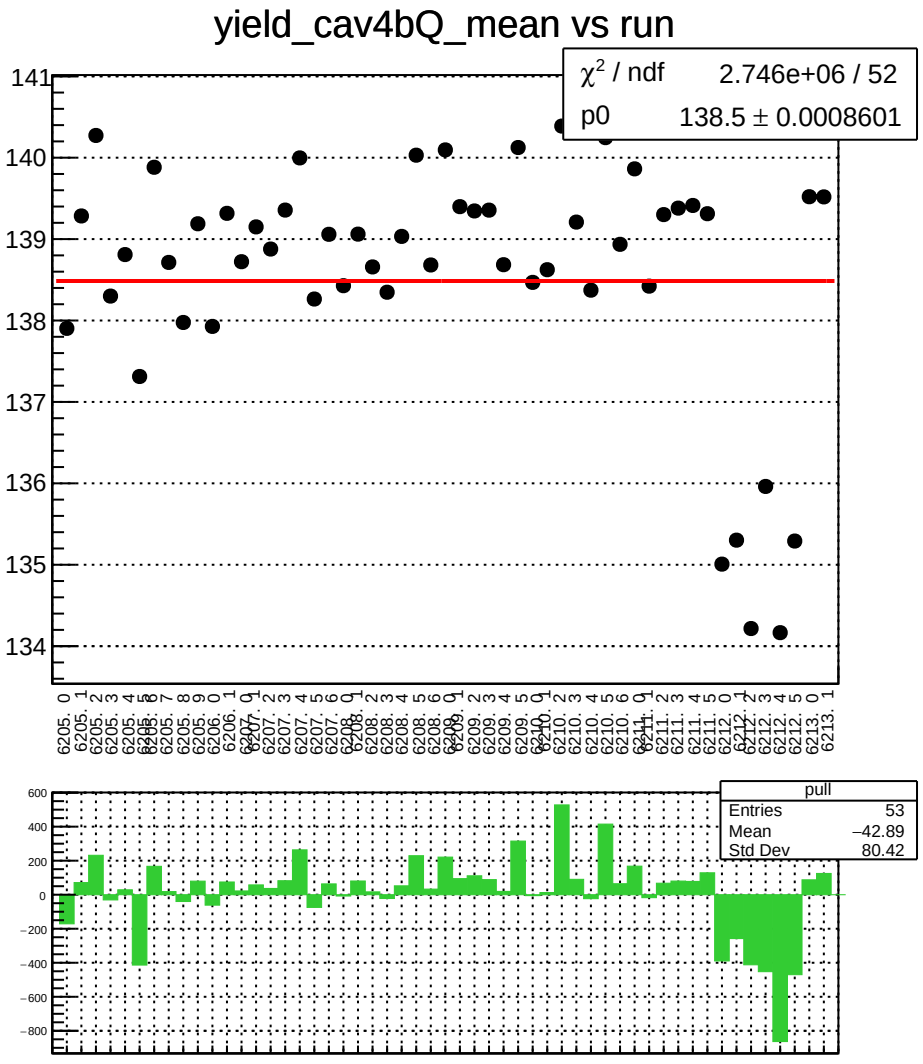

pull1D
Entries 53
Mean 4.971
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

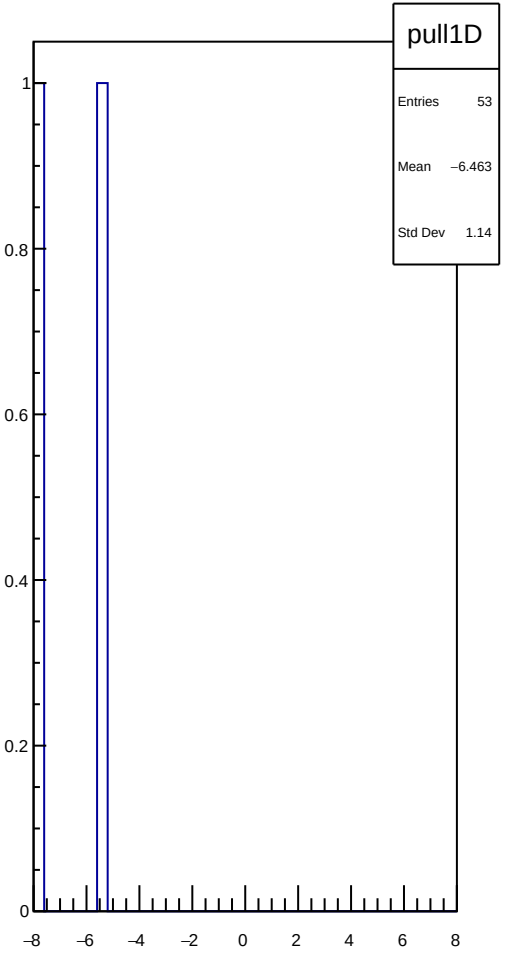

yield_bcm_dg_us_rms vs run
χ² / ndf 8.218e+04 / 52
p0 0.2727 ± 0.0002807
0.7
0.6
0.5
0.4
0.3
0.2
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

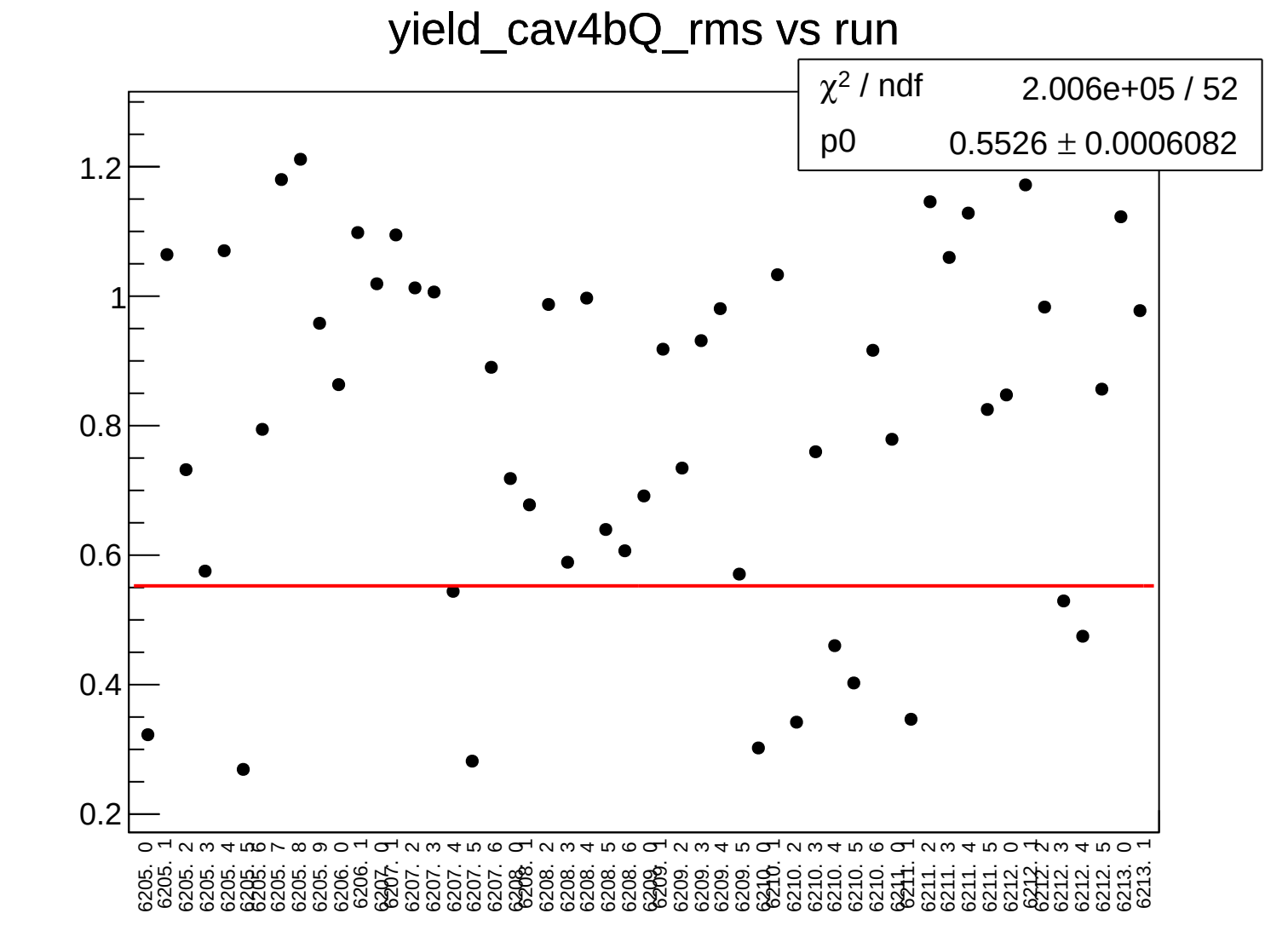

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.804e+06 / 52
p0 134.5 ± 0.0004114
135.5
135
134.5
134
133.5
133
pull
Entries 53
Mean −164.8
Std Dev 184.5
300
200
100
0
−100
−200
−300
−400
−500

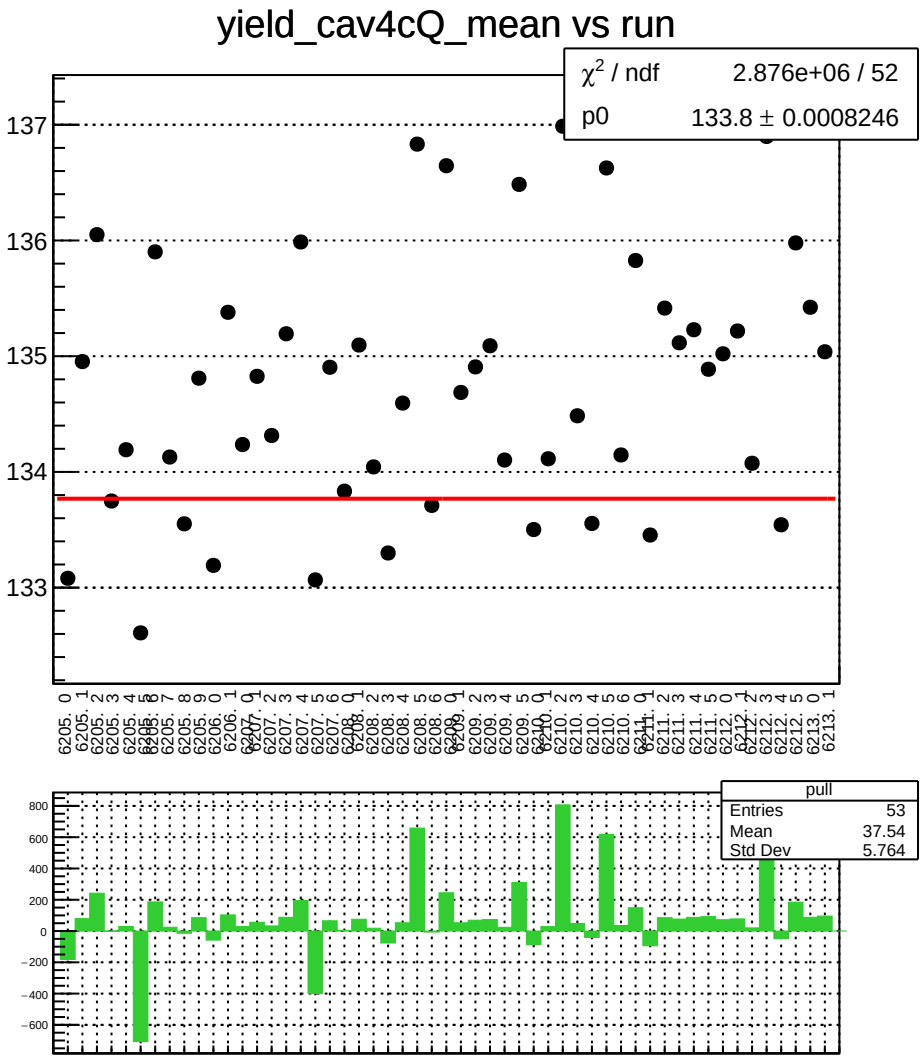

pull1D
Entries 53
Mean 1.206
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

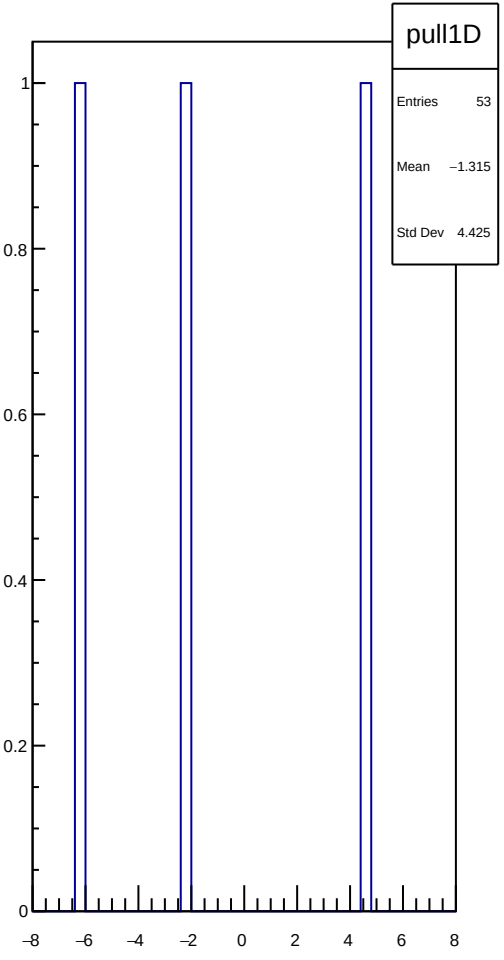

yield_bcm_dg_ds_rms vs run
χ² / ndf 8.29e+04 / 52
p0 0.2825 ± 0.0002909
0.7
0.6
0.5
0.4
0.3
0.2
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

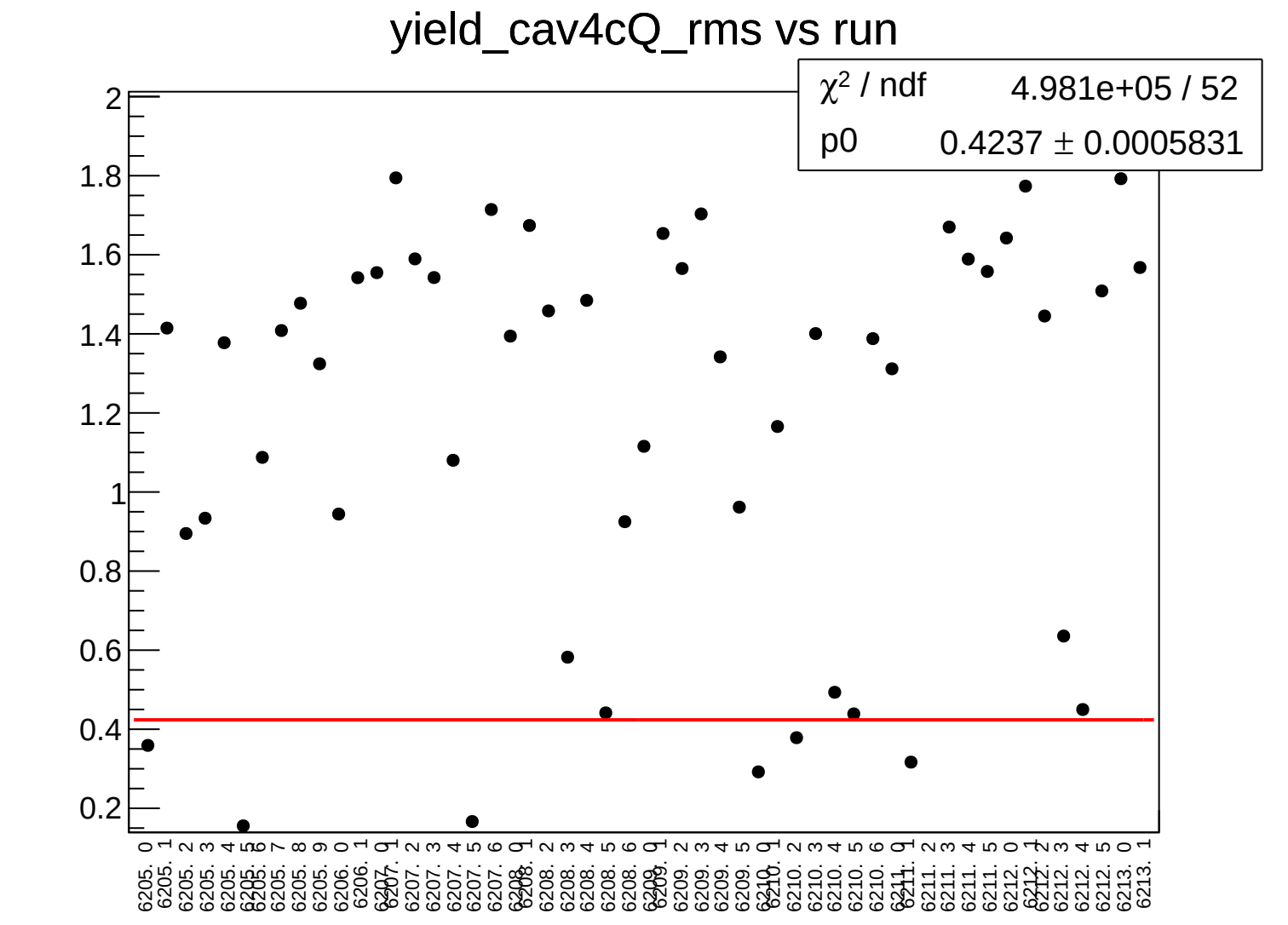

yield_cav4bQ_mean vs run
χ² / ndf 2.746e+06 / 52
p0 138.5 ± 0.0008601
pull
Entries 53
Mean −42.89
Std Dev 80.42

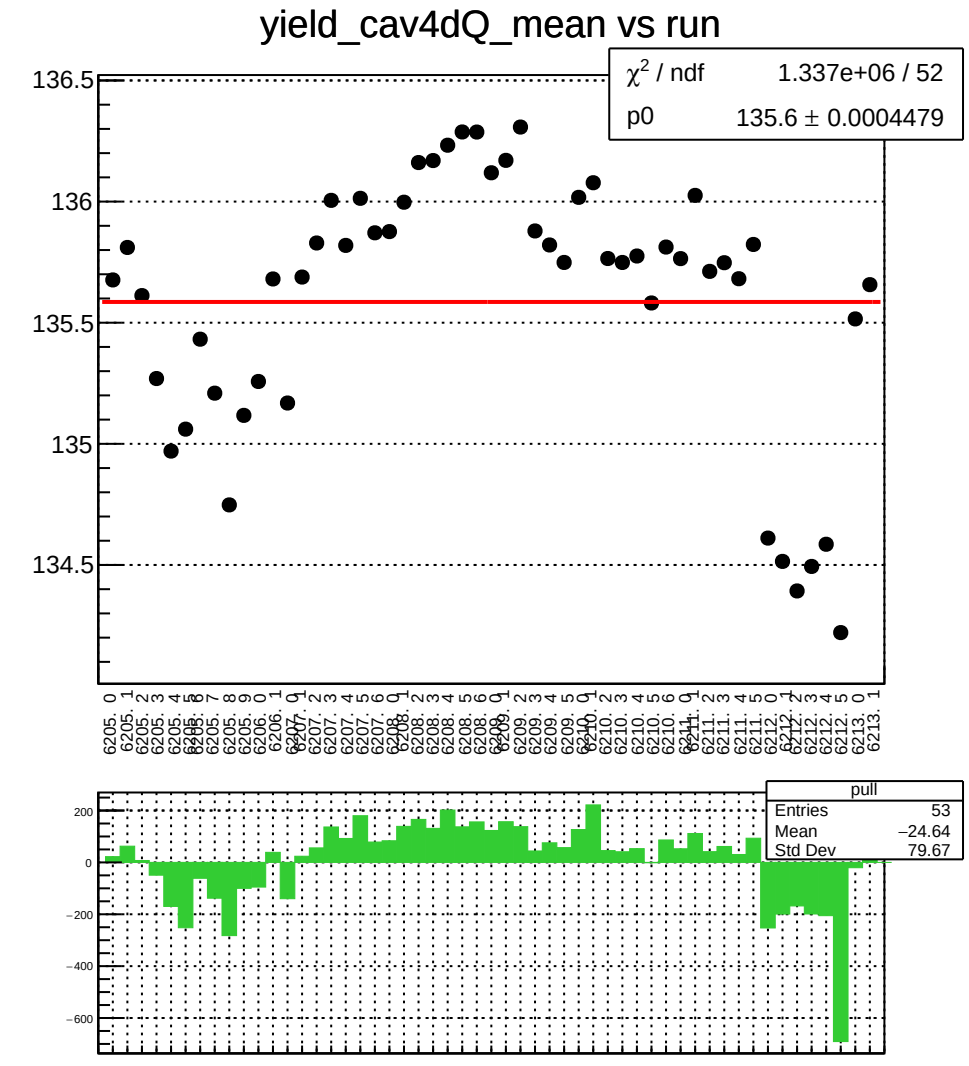

pull1D
Entries 53
Mean −6.463
Std Dev 1.14

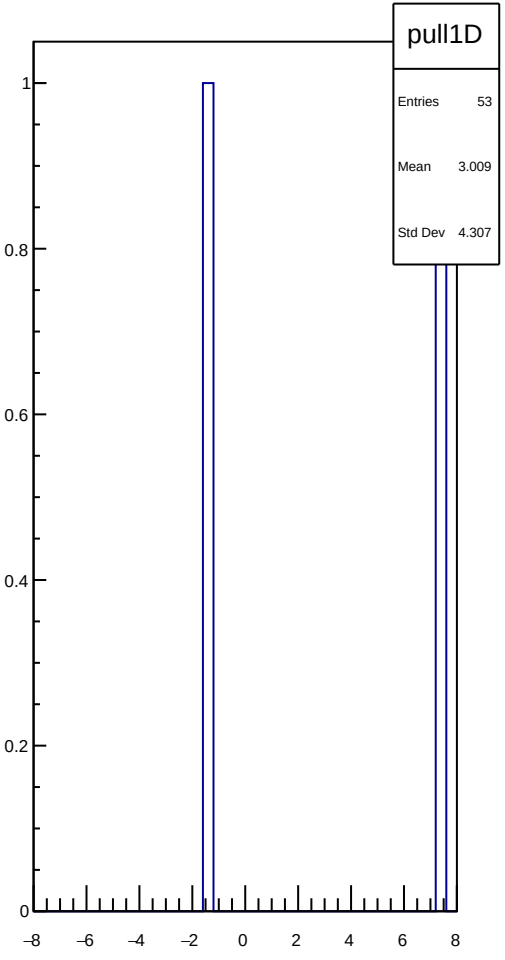

yield_cav4bQ_rms vs run
χ² / ndf 2.006e+05 / 52
p0 0.5526 ± 0.0006082
1.2
1
0.8
0.6
0.4
0.2
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

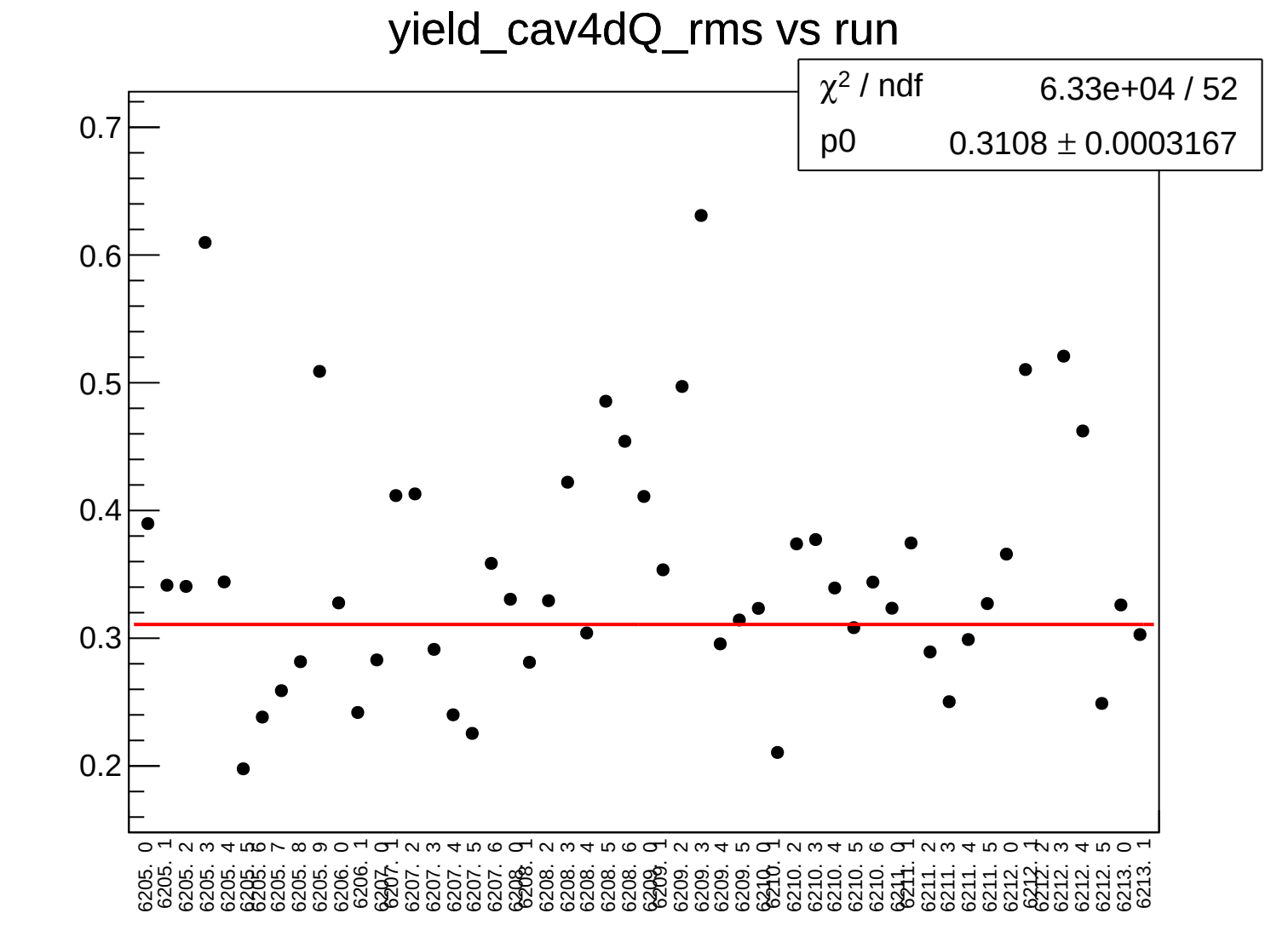

yield_cav4cQ_mean vs run
χ² / ndf 2.876e+06 / 52
p0 133.8 ± 0.0008246
137
136
135
134
133
pull
Entries 53
Mean 37.54
Std Dev 5.764
800
600
400
200
0
−200
−400
−600

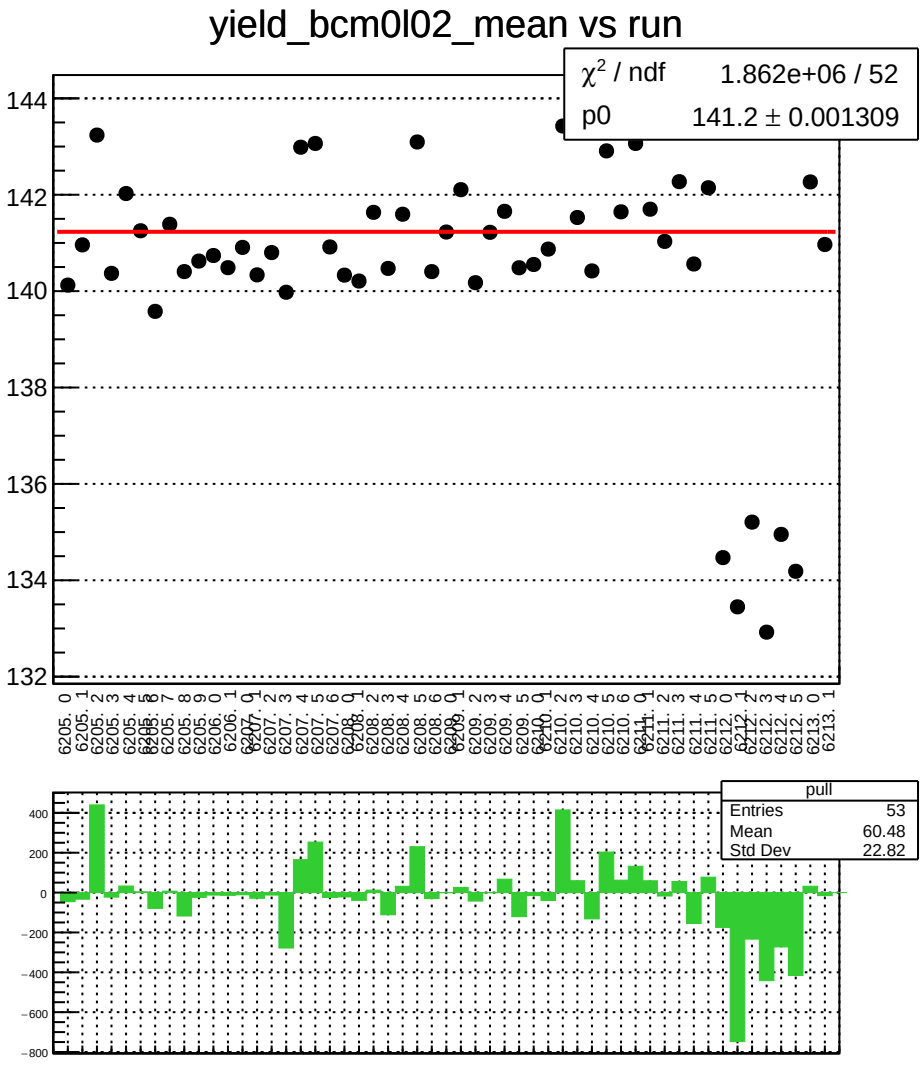

pull1D
Entries 53
Mean −1.315
Std Dev 4.425
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

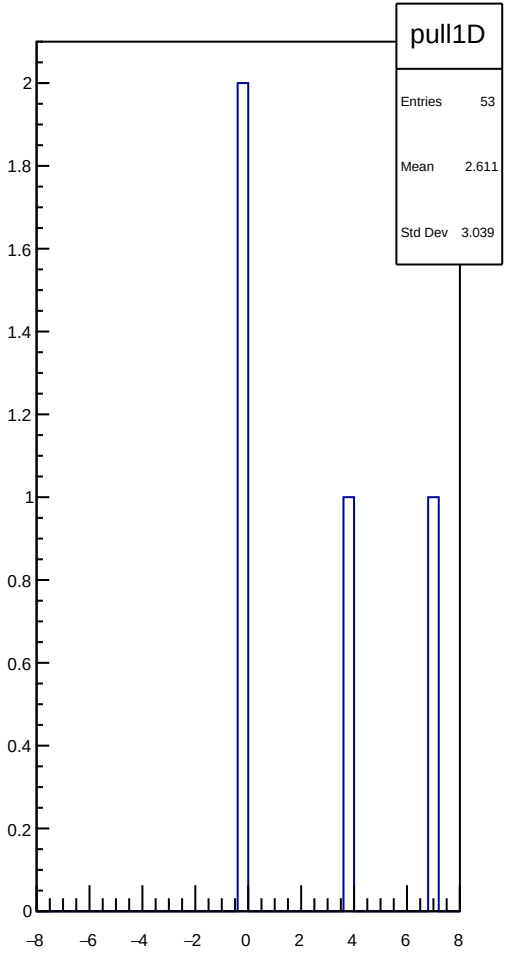

yield_cav4cQ_rms vs run
χ² / ndf 4.981e+05 / 52
p0 0.4237 ± 0.0005831
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

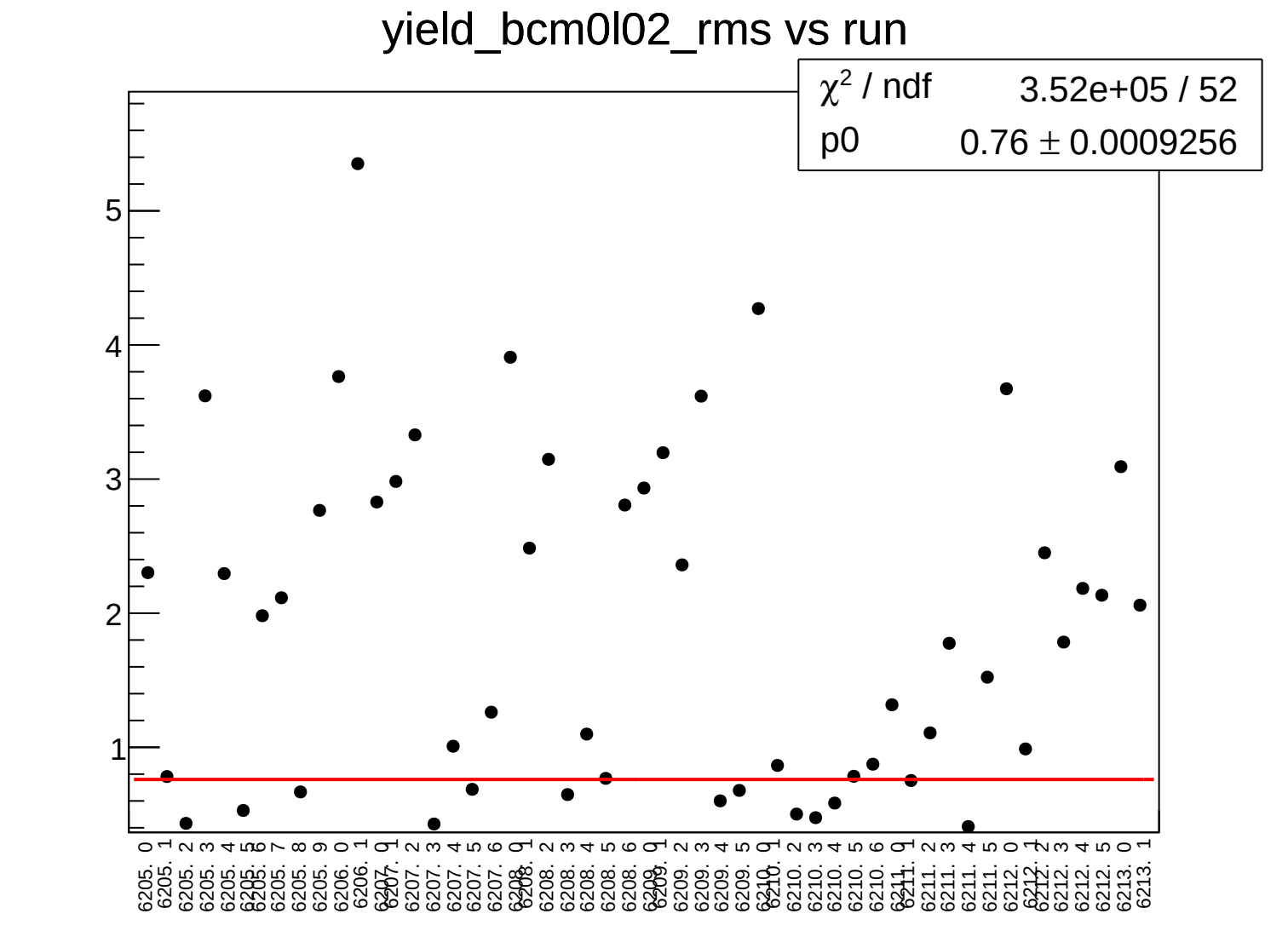

yield_cav4dQ_mean vs run
χ² / ndf 1.337e+06 / 52
p0 135.6 ± 0.0004479
136.5
136
135.5
135
134.5
pull
Entries 53
Mean −24.64
Std Dev 79.67
200
0
−200
−400
−600

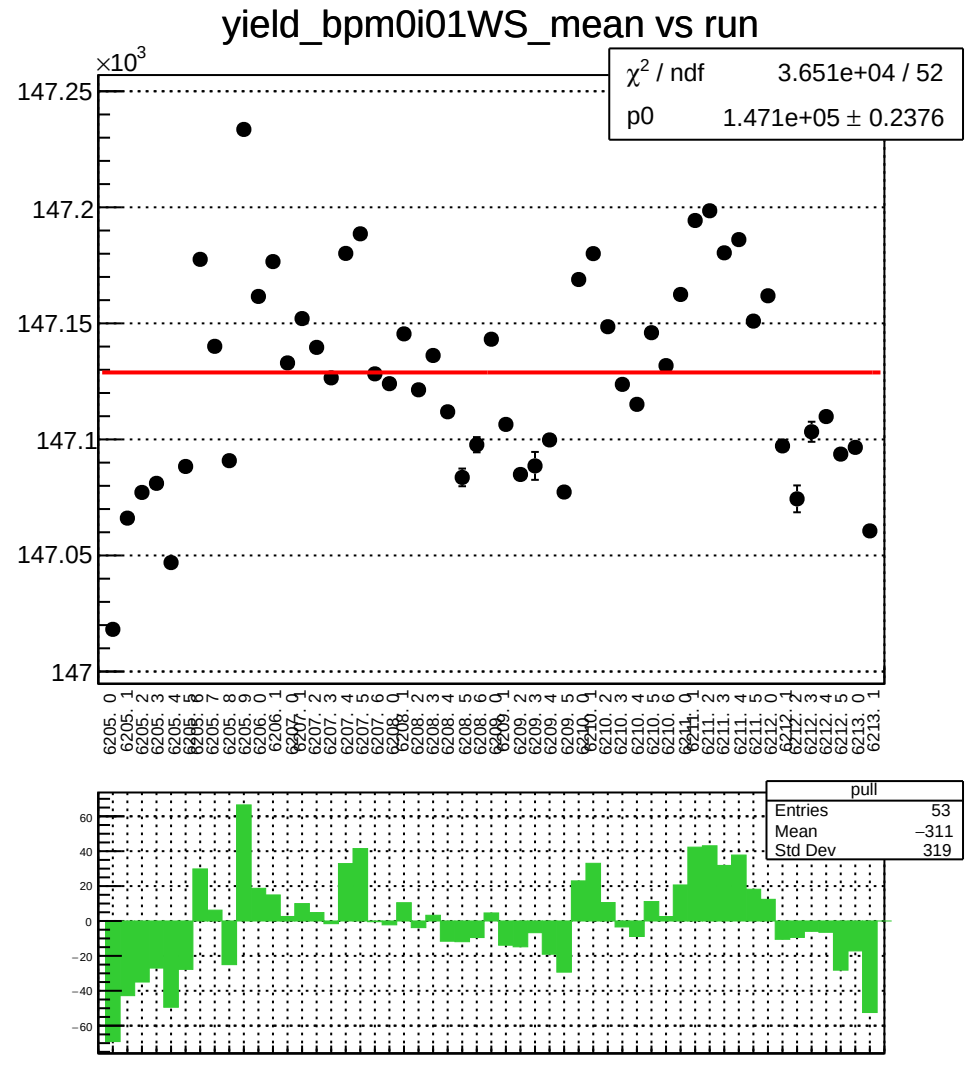

pull1D
Entries 53
Mean 3.009
Std Dev 4.307
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

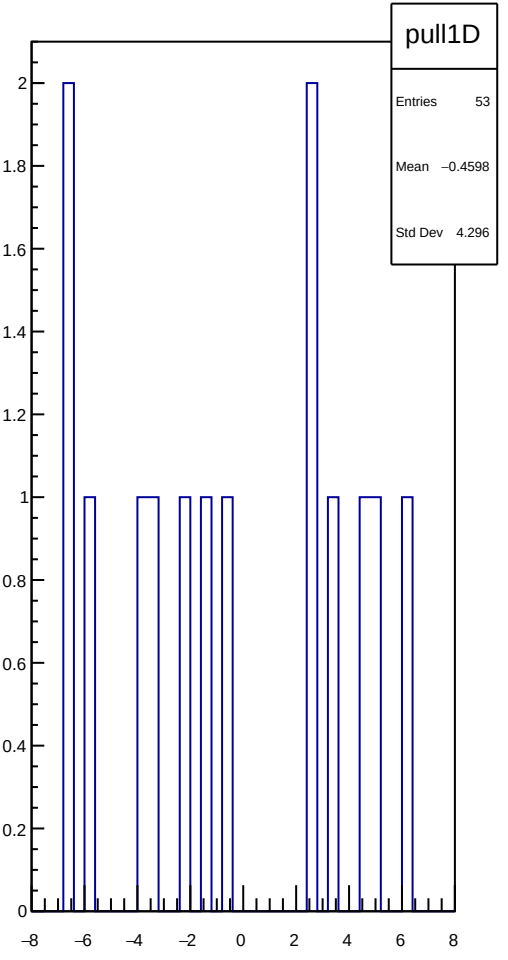

yield_cav4dQ_rms vs run
χ² / ndf 6.33e+04 / 52
p0 0.3108 ± 0.0003167
0.7
0.6
0.5
0.4
0.3
0.2
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

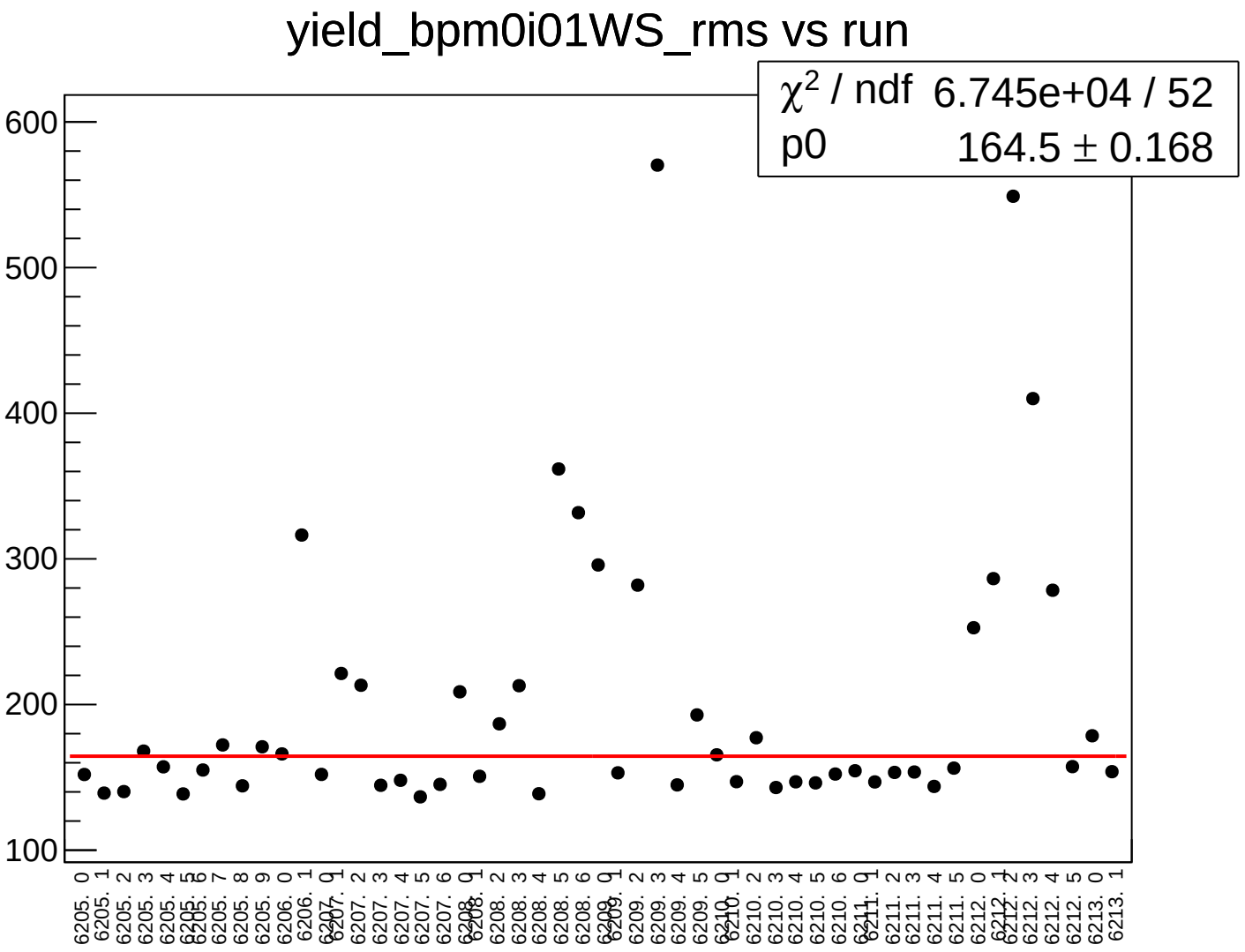

yield_bcm0l02_mean vs run
χ² / ndf 1.862e+06 / 52
p0 141.2 ± 0.001309
144
142
140
138
136
134
132
pull
Entries 53
Mean 60.48
Std Dev 22.82
400
200
0
−200
−400
−600
−800

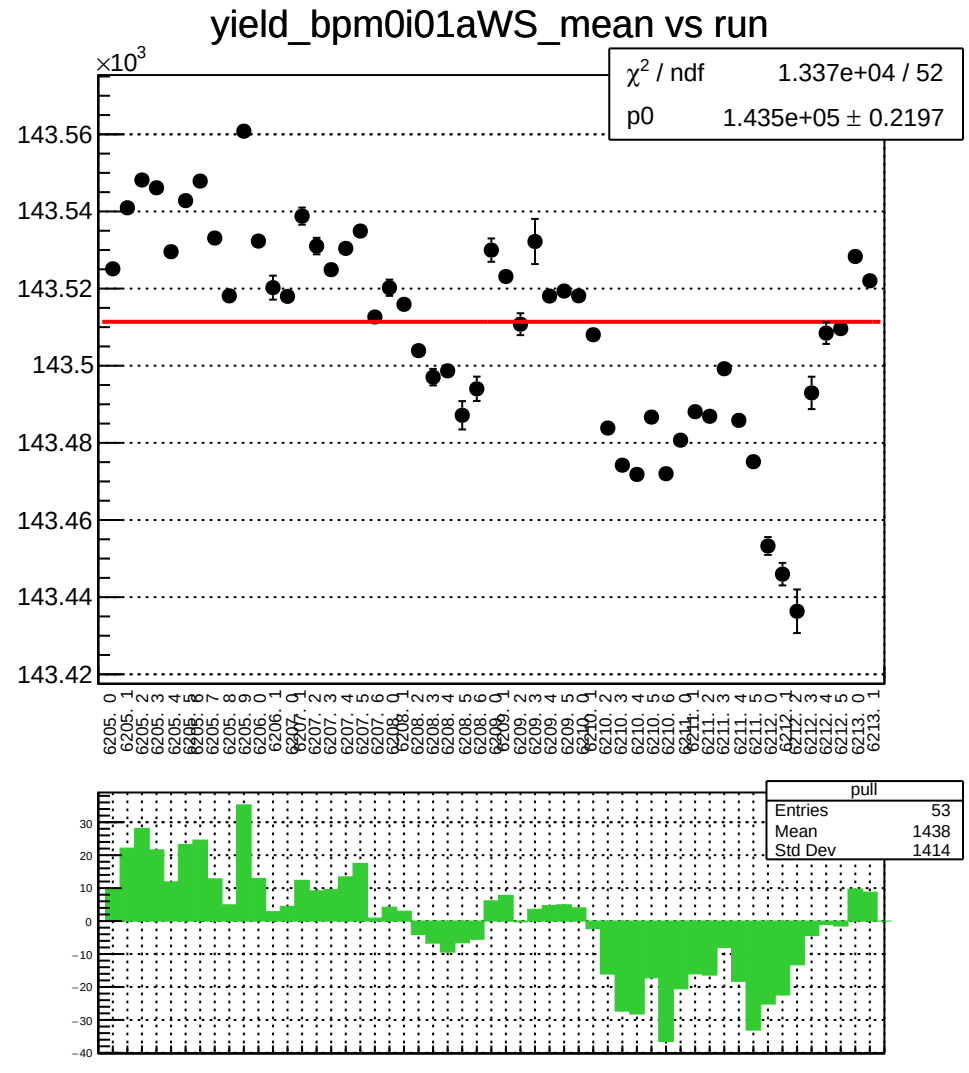

pull1D
Entries 53
Mean 2.611
Std Dev 3.039
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

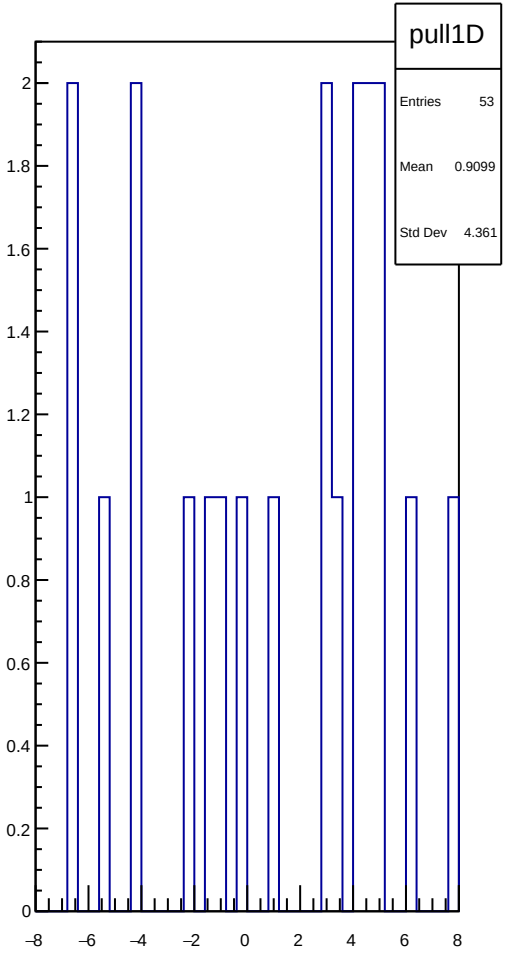

yield_bcm0l02_rms vs run
χ^2 / ndf 3.52e+05 / 52
p0 0.76 ± 0.0009256
5
4
3
2
1
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

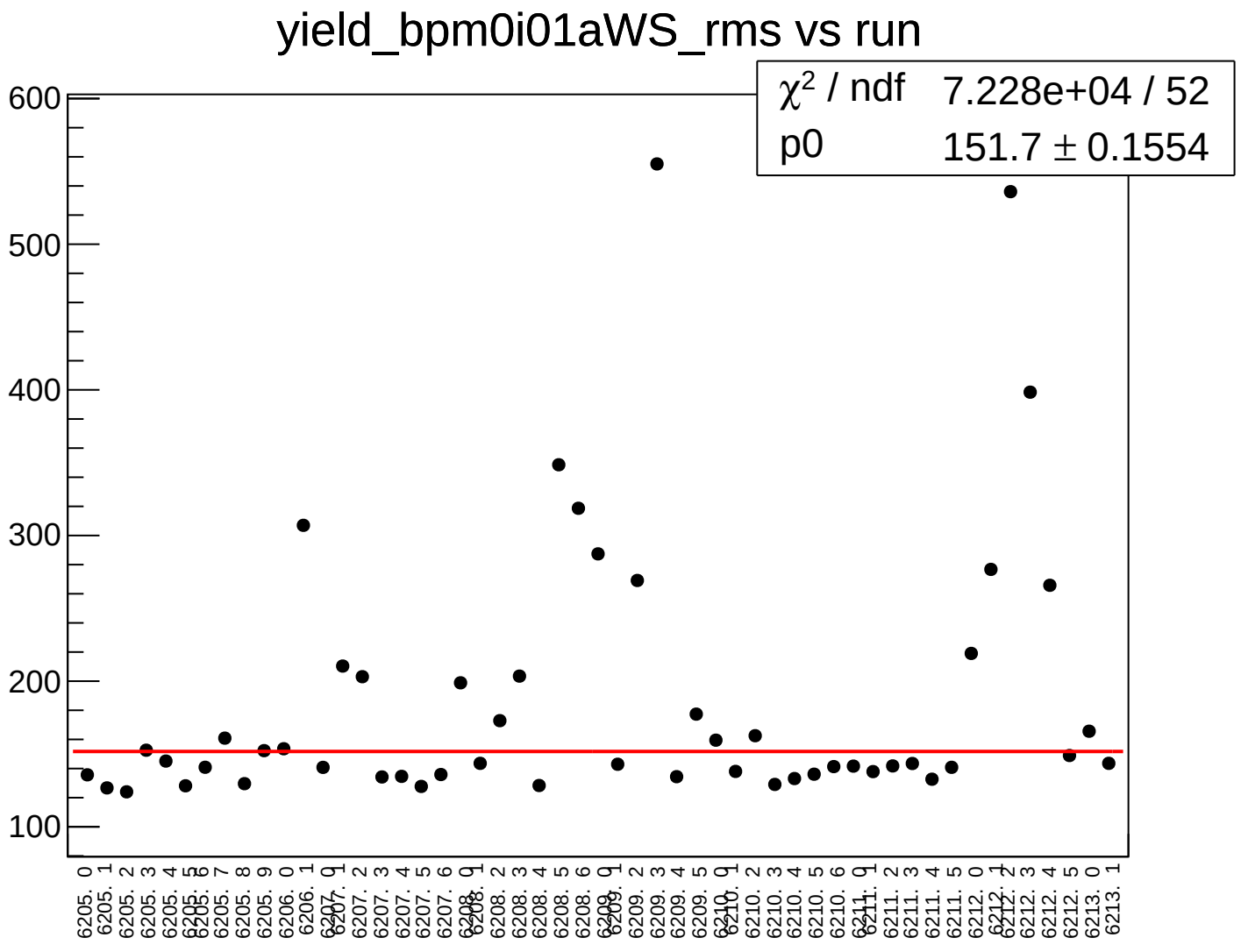

yield_bpm0i01WS_mean vs run
×10^3
147.25
147.2
147.15
147.1
147.05
147
χ² / ndf 3.651e+04 / 52
p0 1.471e+05 ± 0.2376
pull
Entries 53
Mean −311
Std Dev 319
60
40
20
0
−20
−40
−60

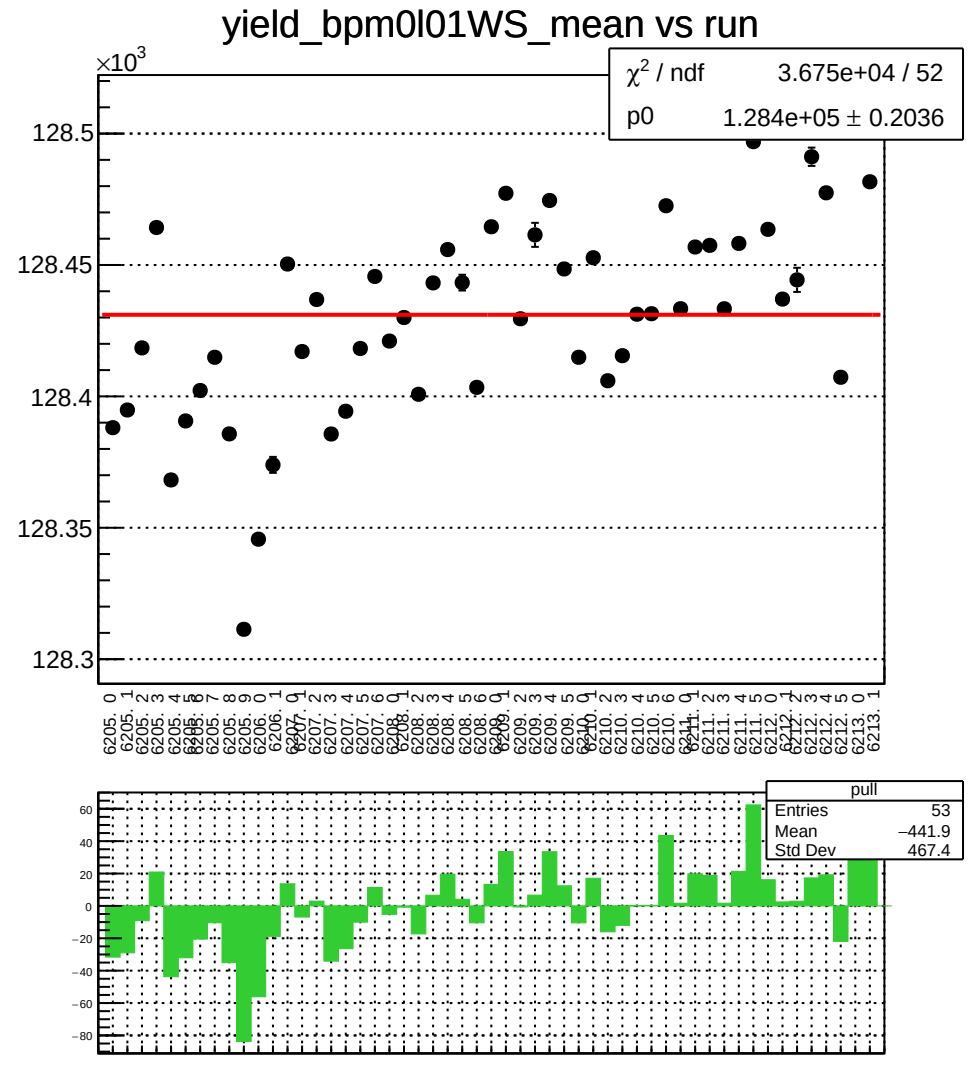

pull1D
Entries 53
Mean −0.4598
Std Dev 4.296
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

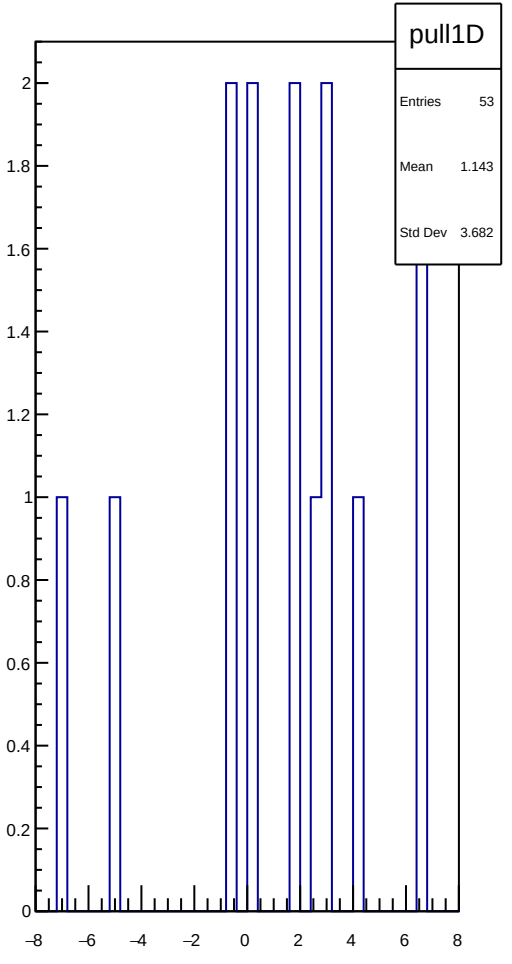

yield_bpm0i01WS_rms vs run
χ² / ndf 6.745e+04 / 52
p0 164.5 ± 0.168
600
500
400
300
200
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

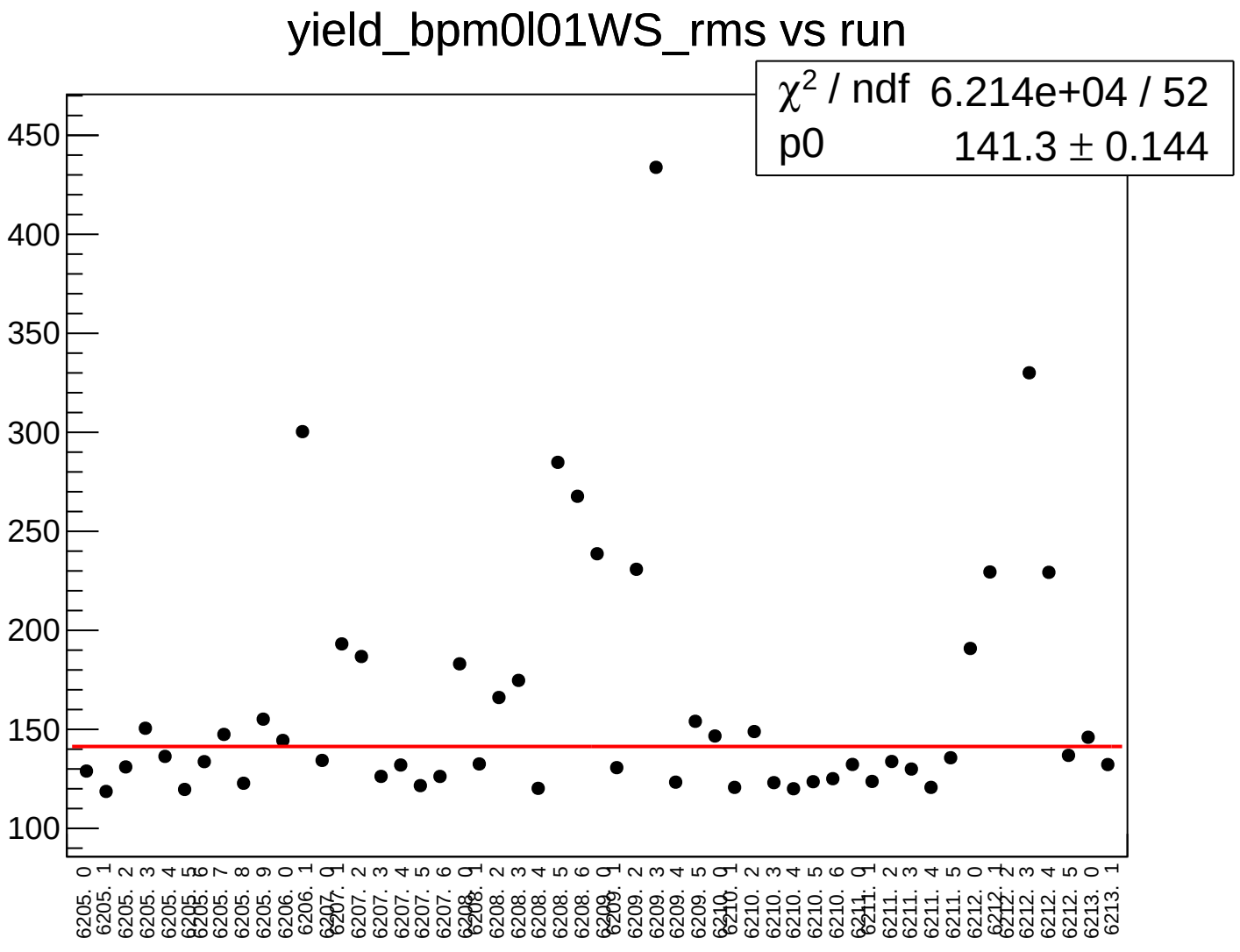

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.337e+04 / 52
p0 1.435e+05 ± 0.2197
143.56
143.54
143.52
143.5
143.48
143.46
143.44
143.42
pull
Entries 53
Mean 1438
Std Dev 1414
30
20
10
0
−10
−20
−30
−40

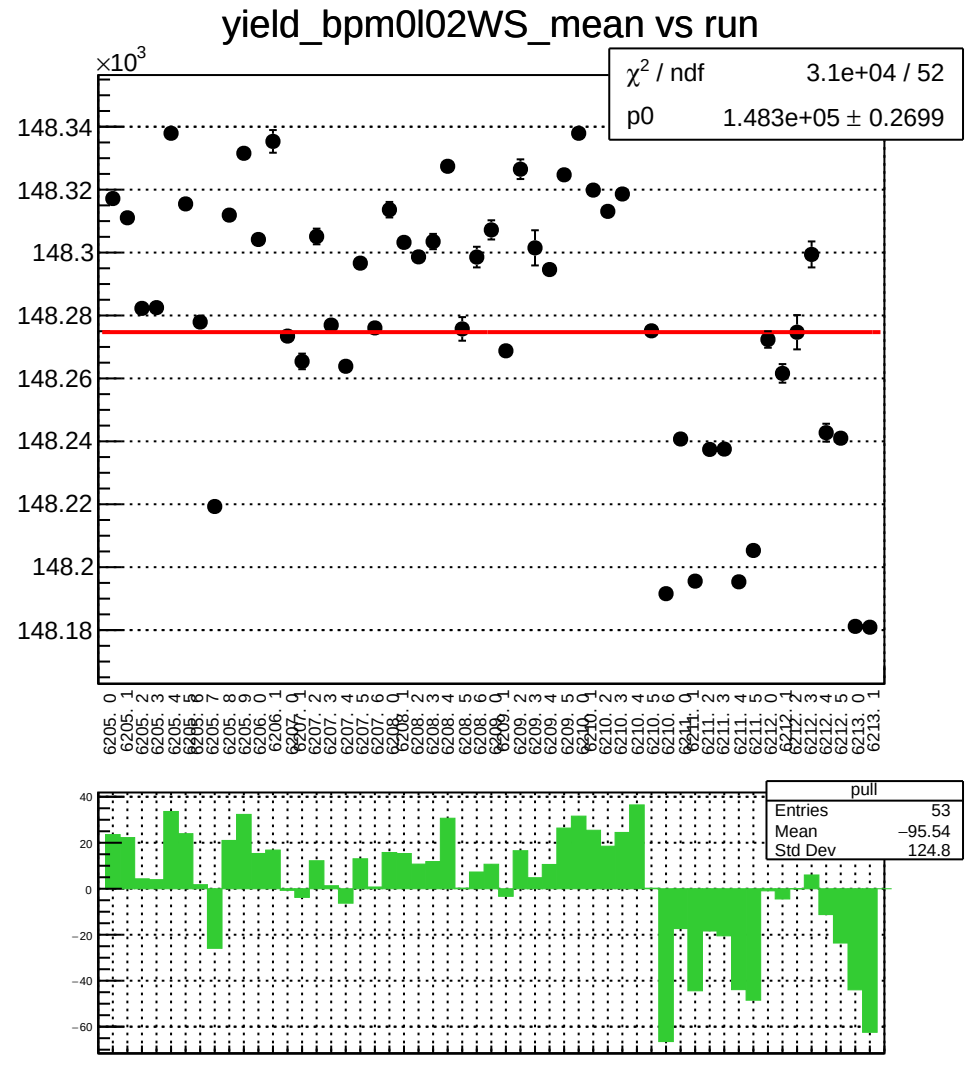

pull1D
Entries 53
Mean 0.9099
Std Dev 4.361
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

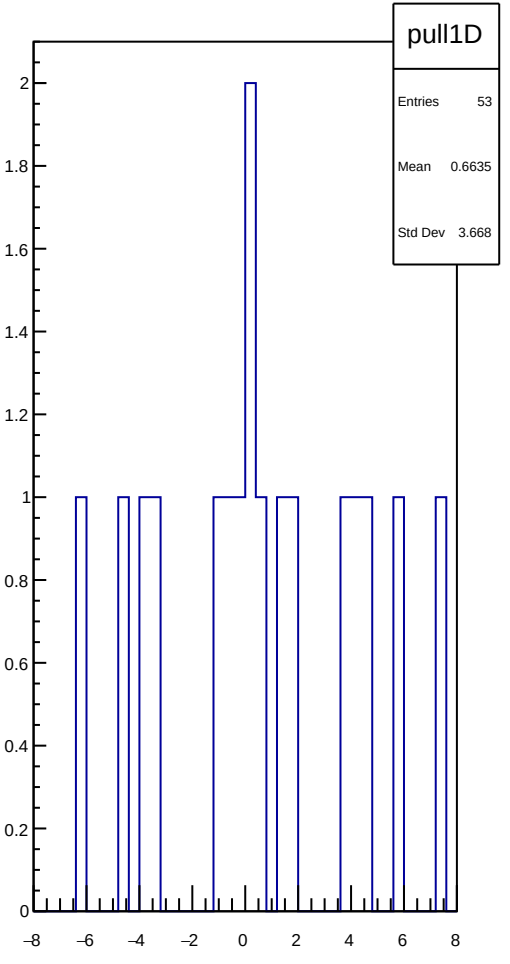

yield_bpm0i01aWS_rms vs run
χ² / ndf 7.228e+04 / 52
p0 151.7 ± 0.1554
600
500
400
300
200
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

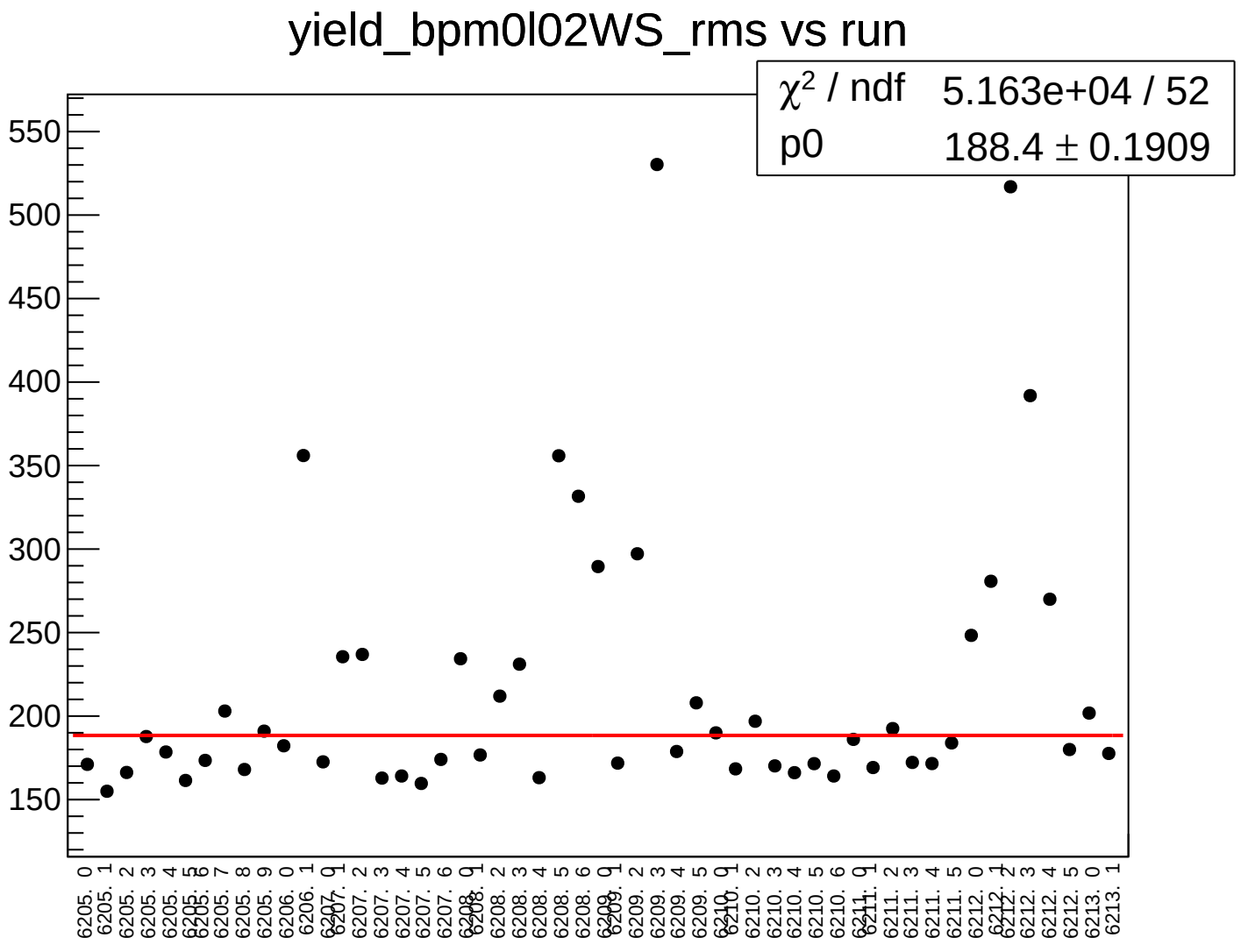

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.675e+04 / 52
p0 1.284e+05 ± 0.2036
128.5
128.45
128.4
128.35
128.3
pull
Entries 53
Mean −441.9
Std Dev 467.4
60
40
20
0
−20
−40
−60
−80

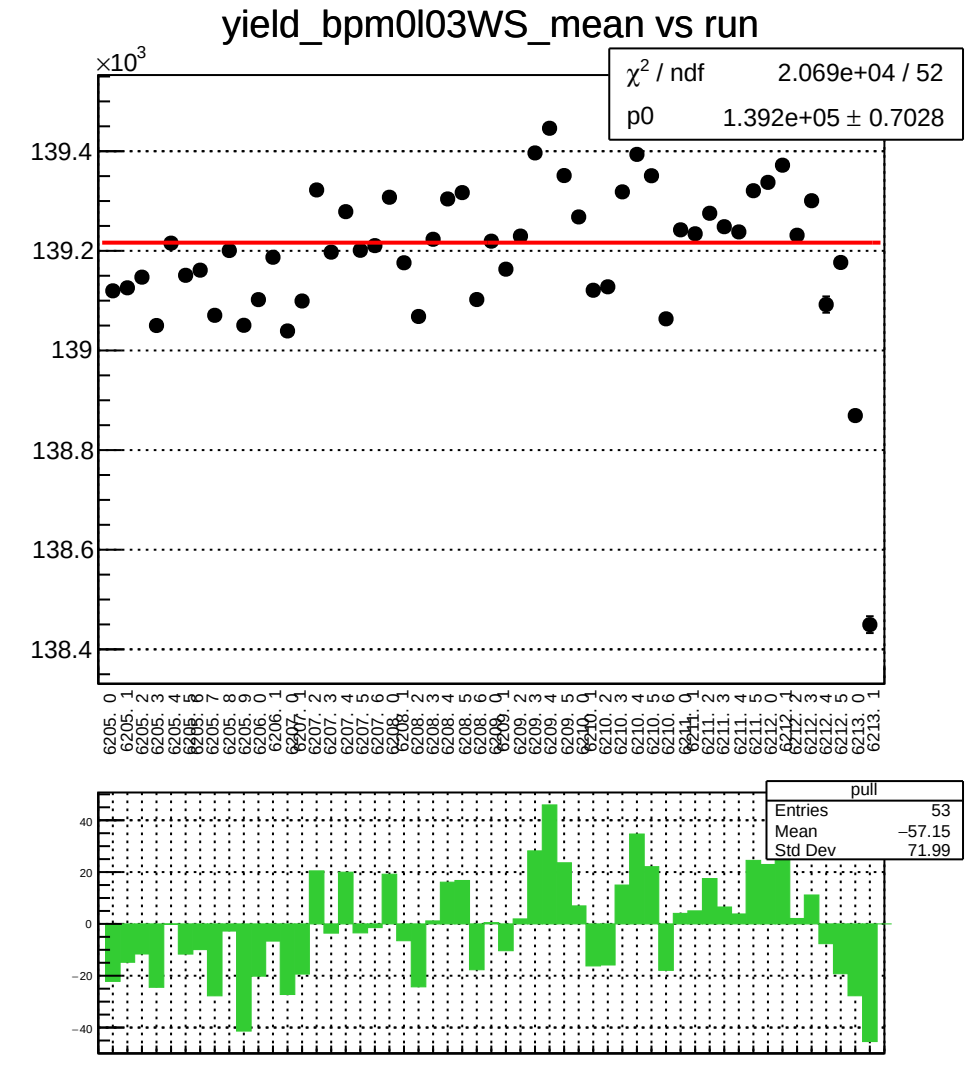

pull1D
Entries 53
Mean 1.143
Std Dev 3.682
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

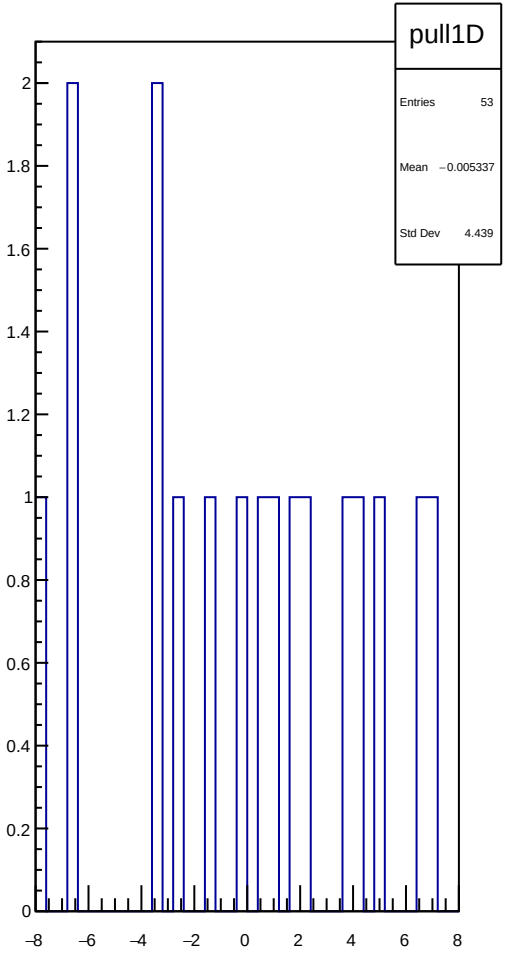

yield_bpm0l01WS_rms vs run
χ² / ndf 6.214e+04 / 52
p0 141.3 ± 0.144
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

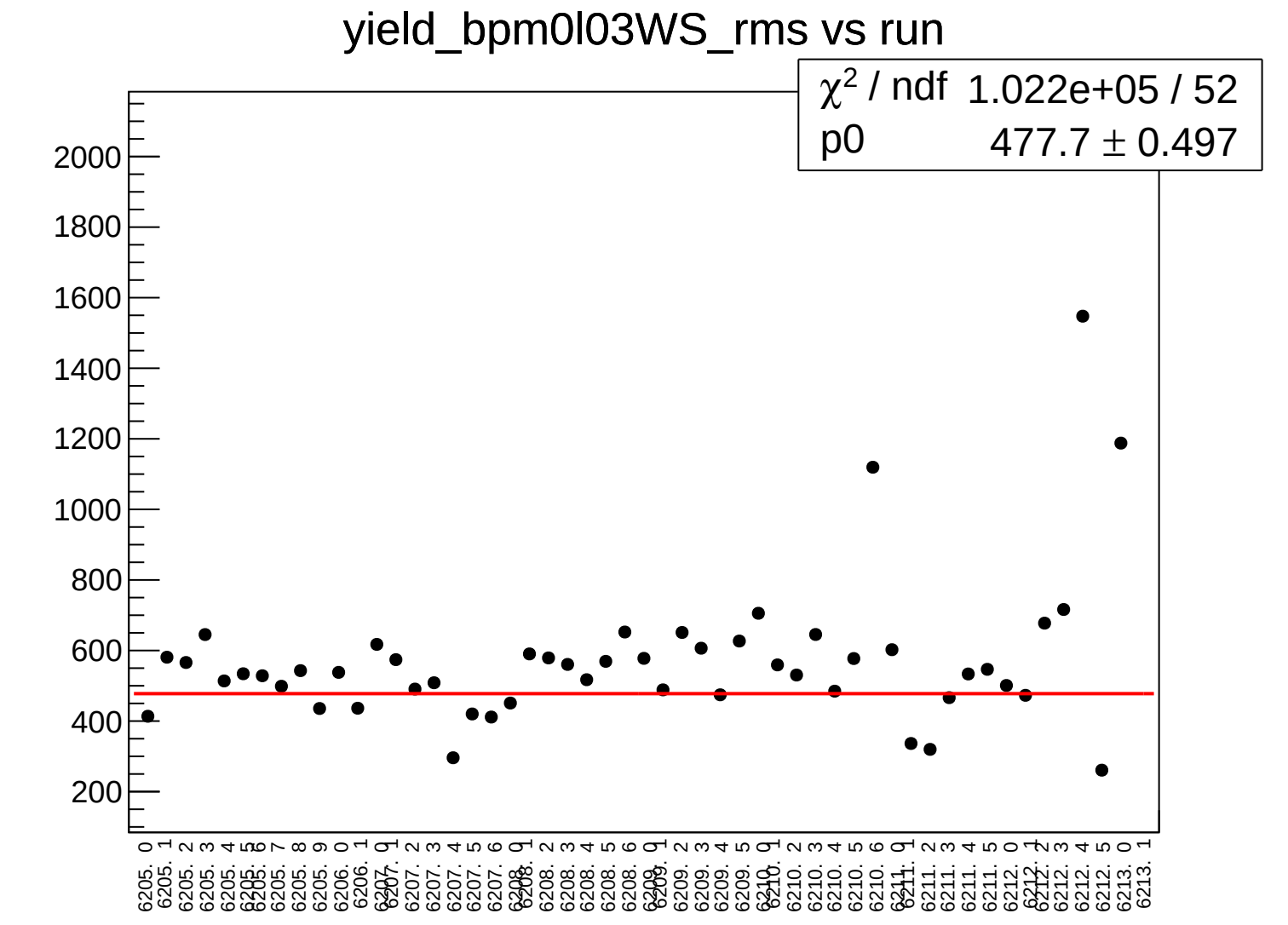

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.1e+04 / 52
p0 1.483e+05 ± 0.2699
148.34
148.32
148.3
148.28
148.26
148.24
148.22
148.2
148.18
pull
Entries 53
Mean −95.54
Std Dev 124.8
40
20
0
−20
−40
−60

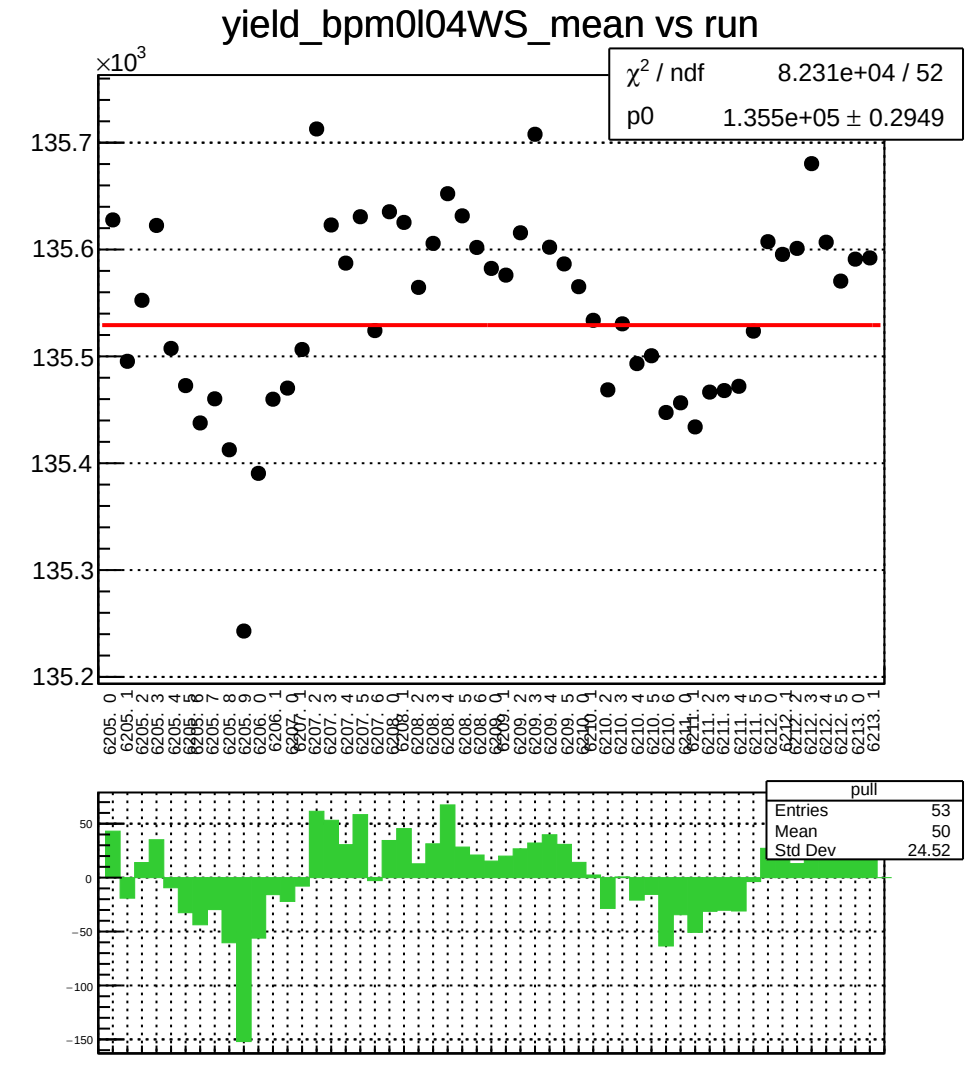

pull1D
Entries 53
Mean 0.6635
Std Dev 3.668
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

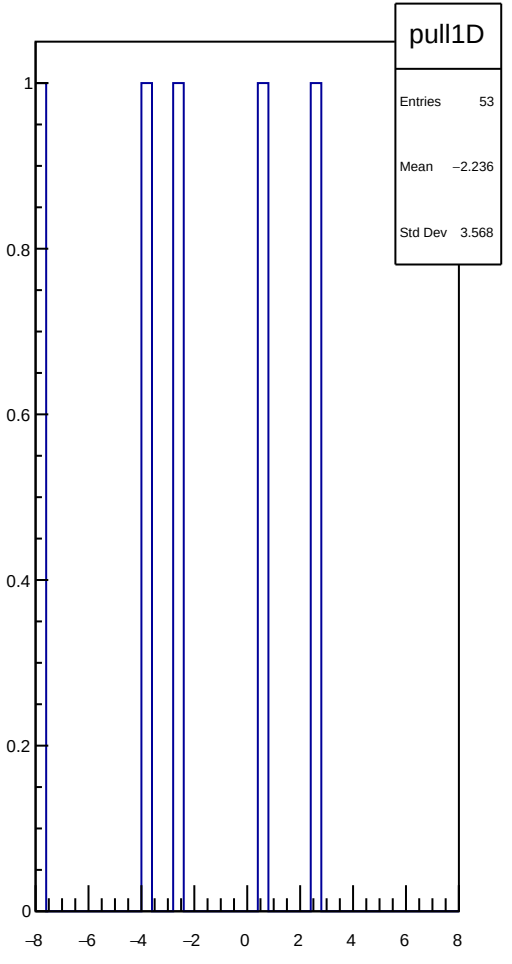

yield_bpm0l02WS_rms vs run
χ² / ndf 5.163e+04 / 52
p0 188.4 ± 0.1909
550
500
450
400
350
300
250
200
150
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

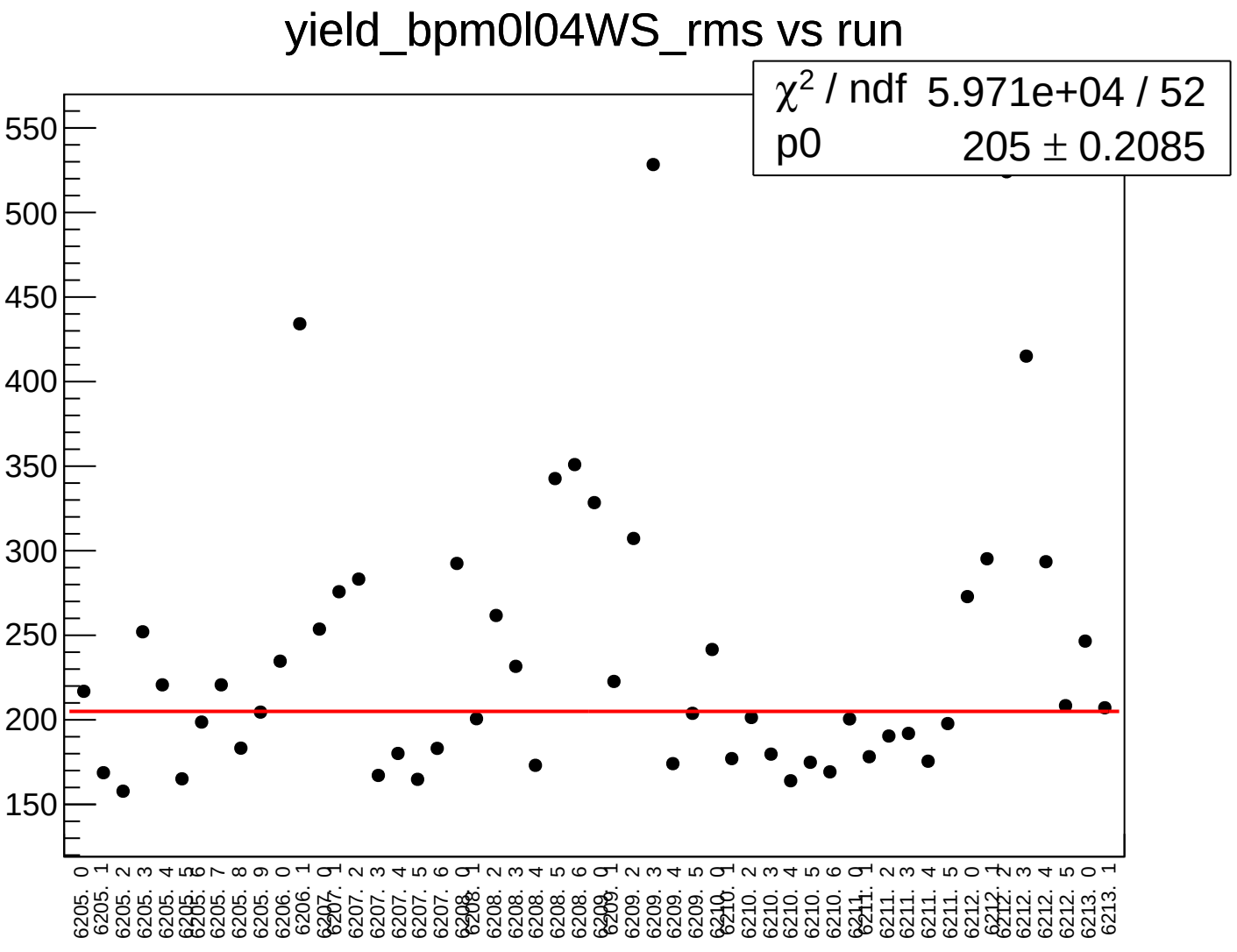

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.069e+04 / 52
p0 1.392e+05 ± 0.7028
139.4
139.2
139
138.8
138.6
138.4
pull
Entries 53
Mean −57.15
Std Dev 71.99
40
20
0
−20
−40

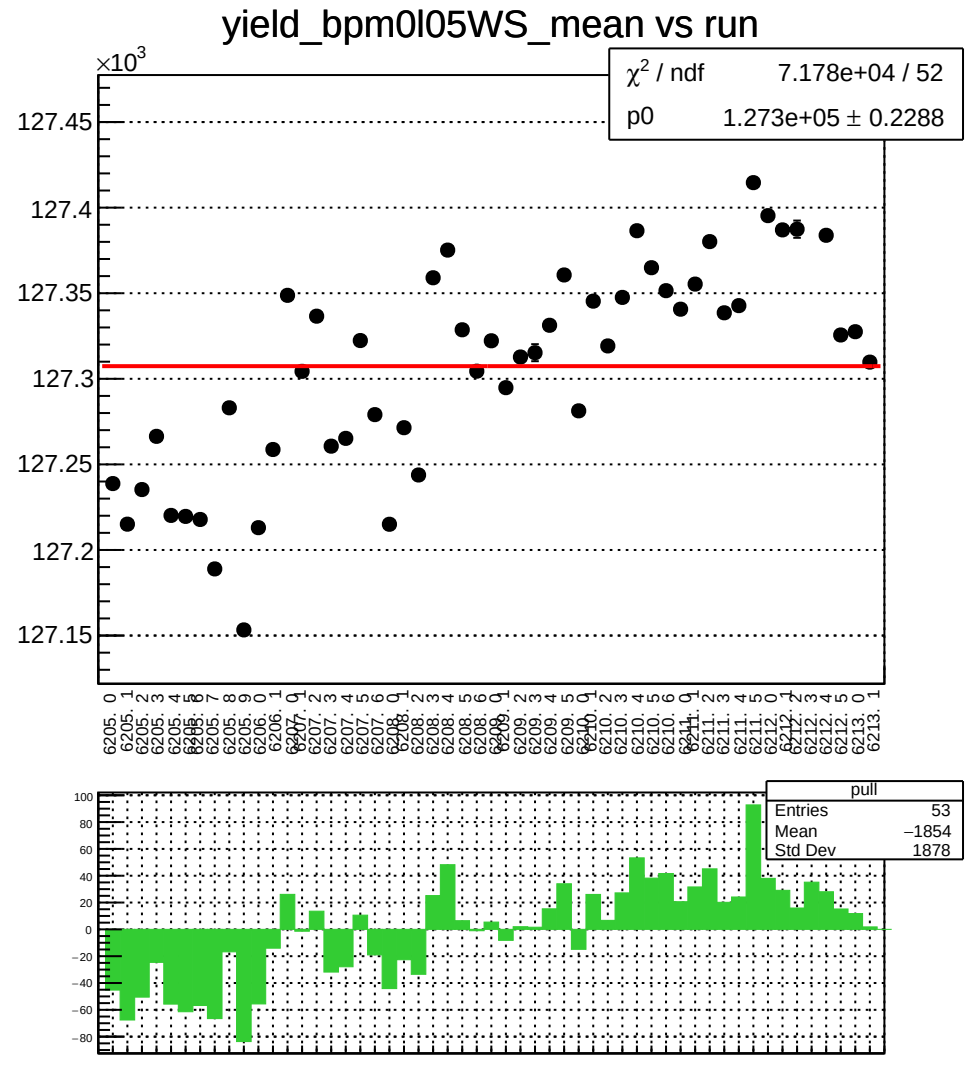

pull1D
Entries 53
Mean −0.005337
Std Dev 4.439
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

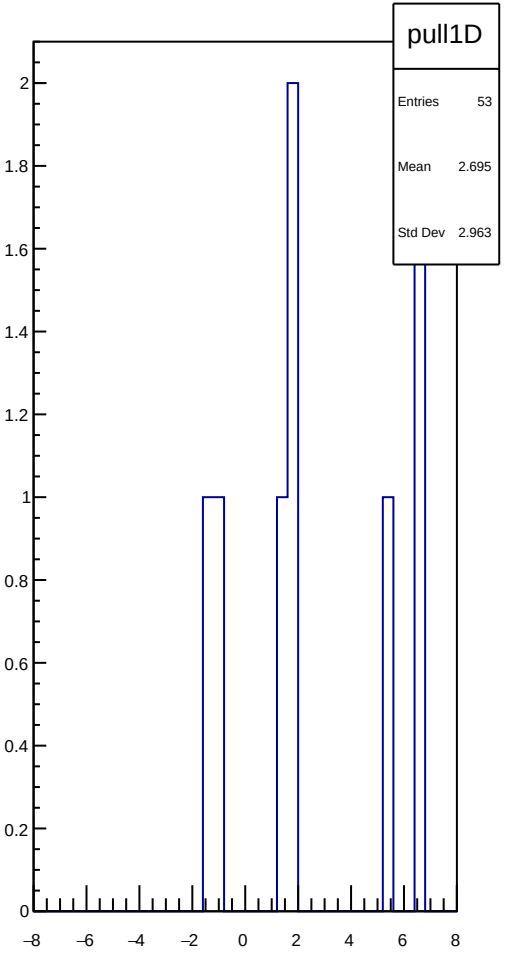

yield_bpm0l03WS_rms vs run
χ² / ndf 1.022e+05 / 52
p0 477.7 ± 0.497
2000
1800
1600
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

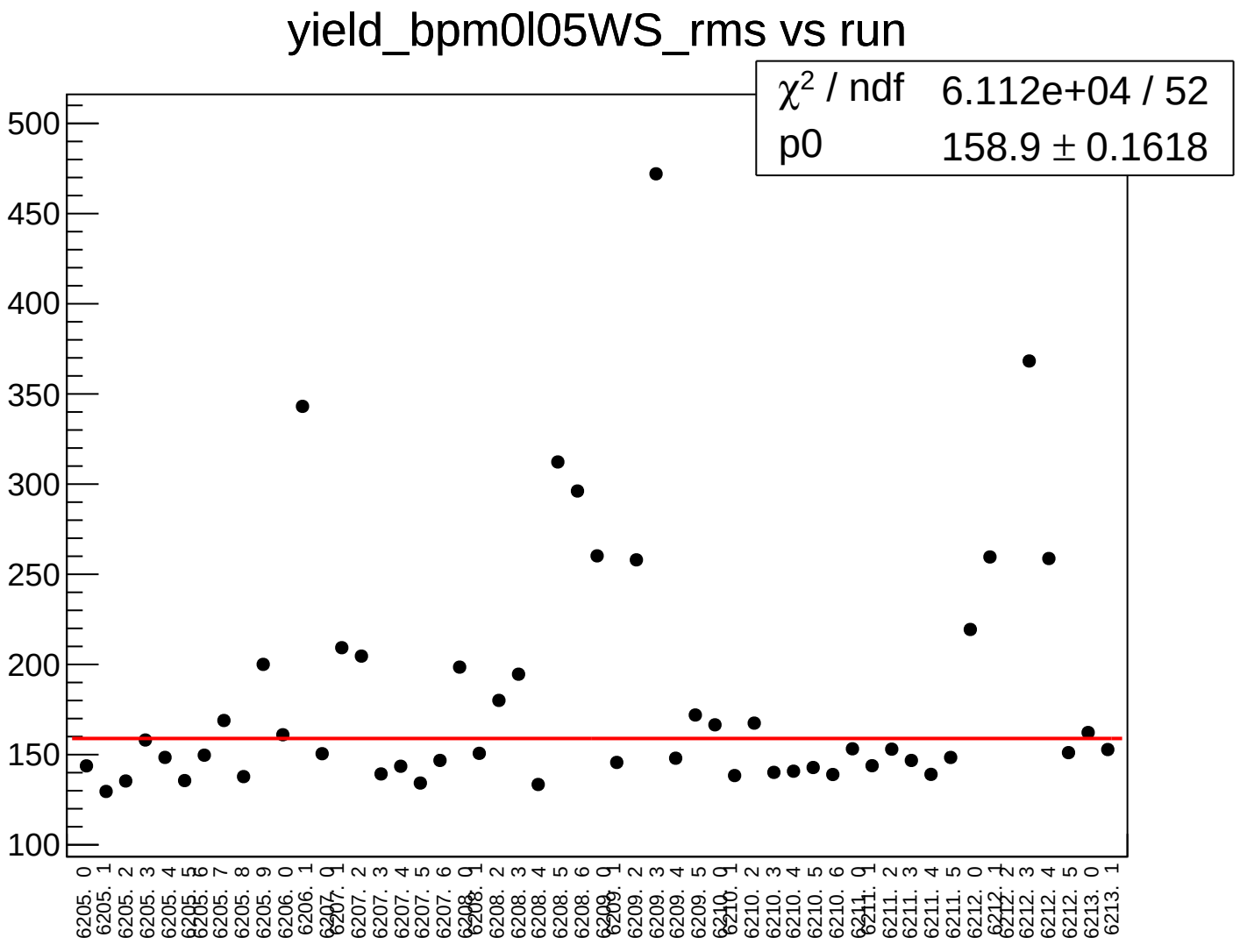

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 8.231e+04 / 52
p0 1.355e+05 ± 0.2949
135.7
135.6
135.5
135.4
135.3
135.2
pull
Entries 53
Mean 50
Std Dev 24.52
50
0
−50
−100
−150

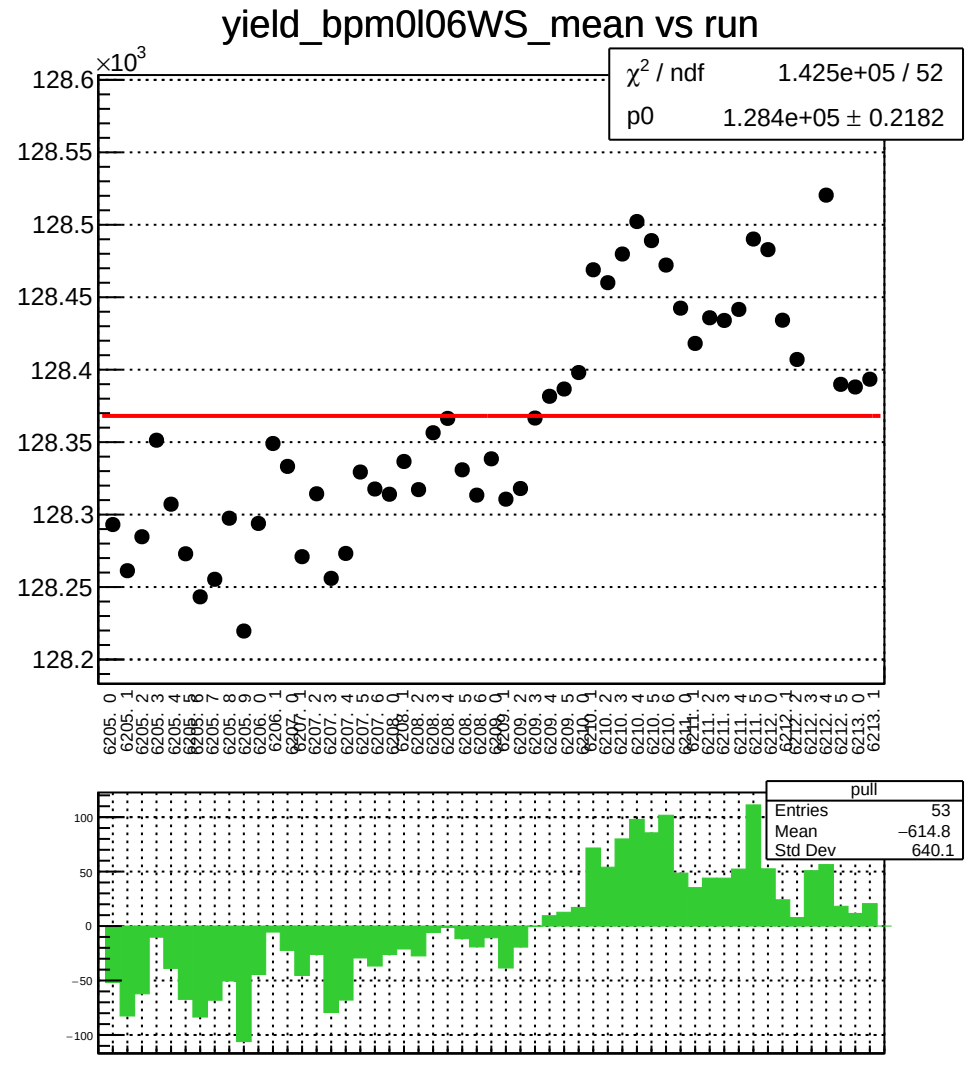

pull1D
Entries 53
Mean −2.236
Std Dev 3.568
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

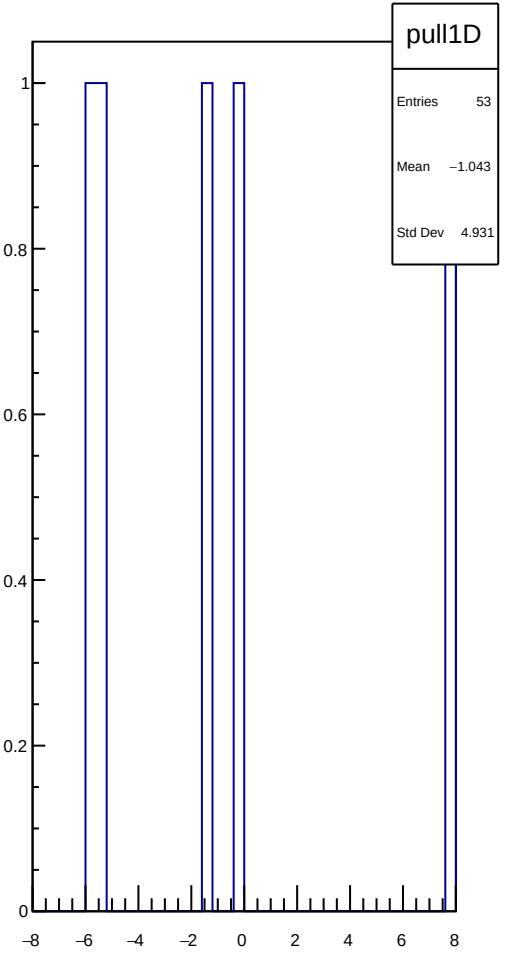

yield_bpm0l04WS_rms vs run
χ² / ndf 5.971e+04 / 52
p0 205 ± 0.2085
550
500
450
400
350
300
250
200
150
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

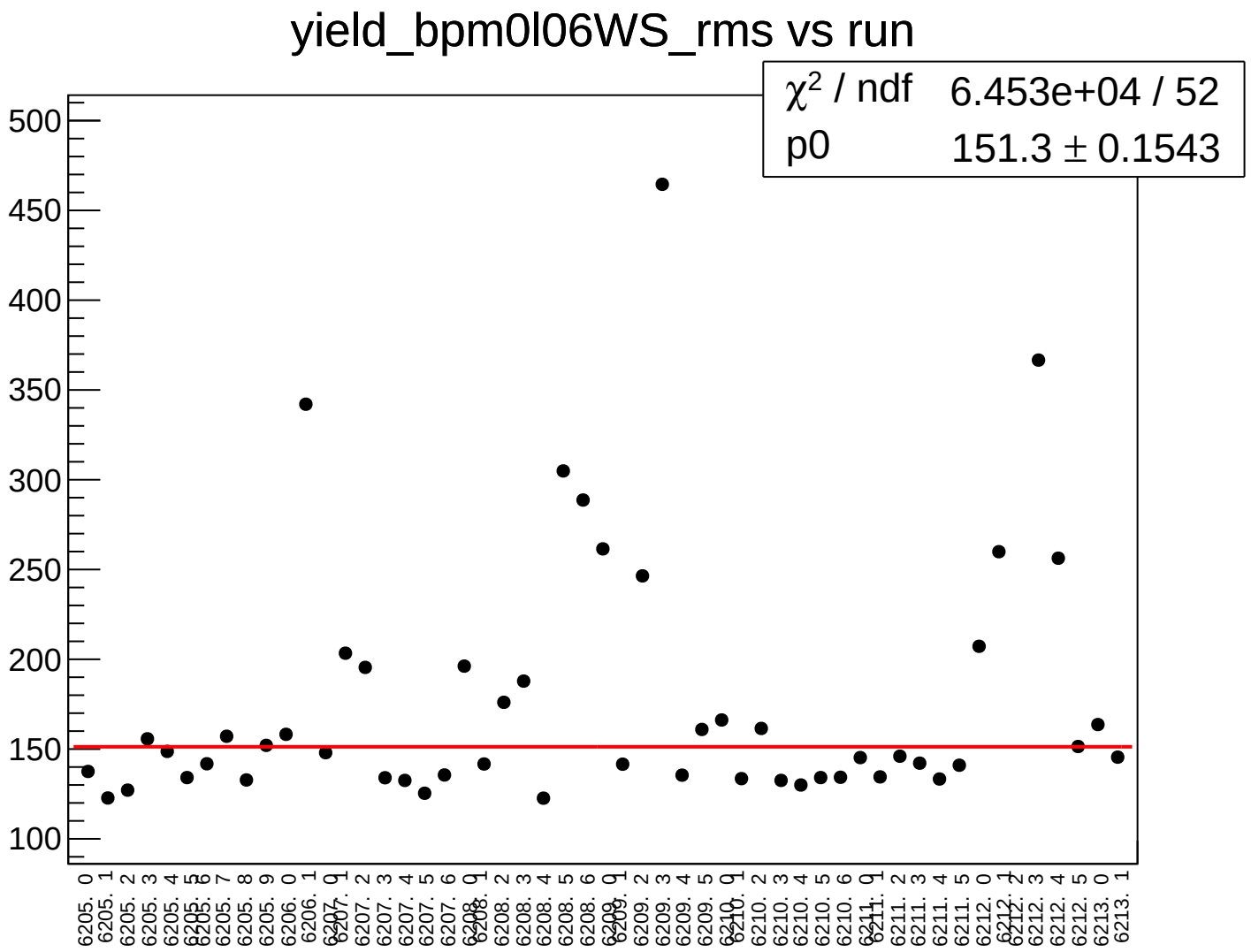

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 7.178e+04 / 52
p0 1.273e+05 ± 0.2288
127.45
127.4
127.35
127.3
127.25
127.2
127.15
pull
Entries 53
Mean −1854
Std Dev 1878
100
80
60
40
20
0
−20
−40
−60
−80

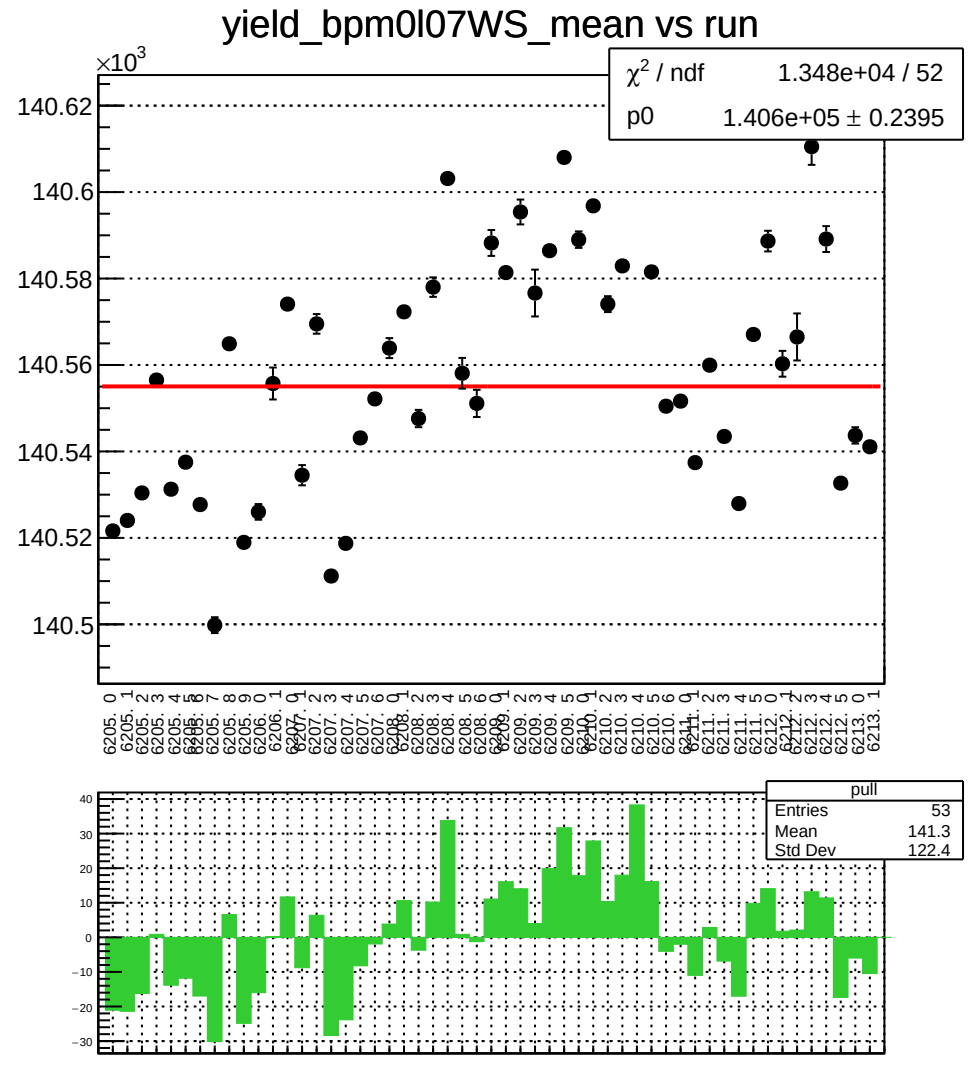

pull1D
Entries 53
Mean 2.695
Std Dev 2.963
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

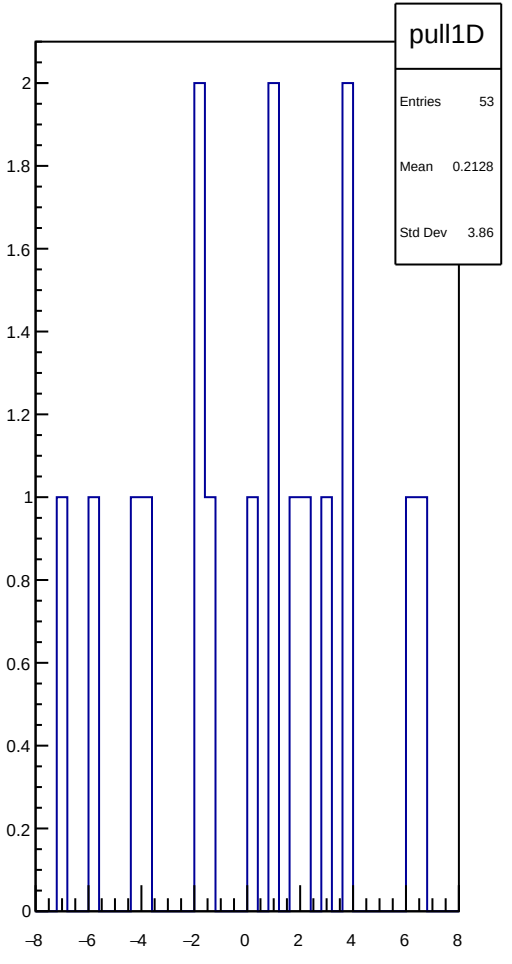

yield_bpm0l05WS_rms vs run
χ² / ndf 6.112e+04 / 52
p0 158.9 ± 0.1618
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

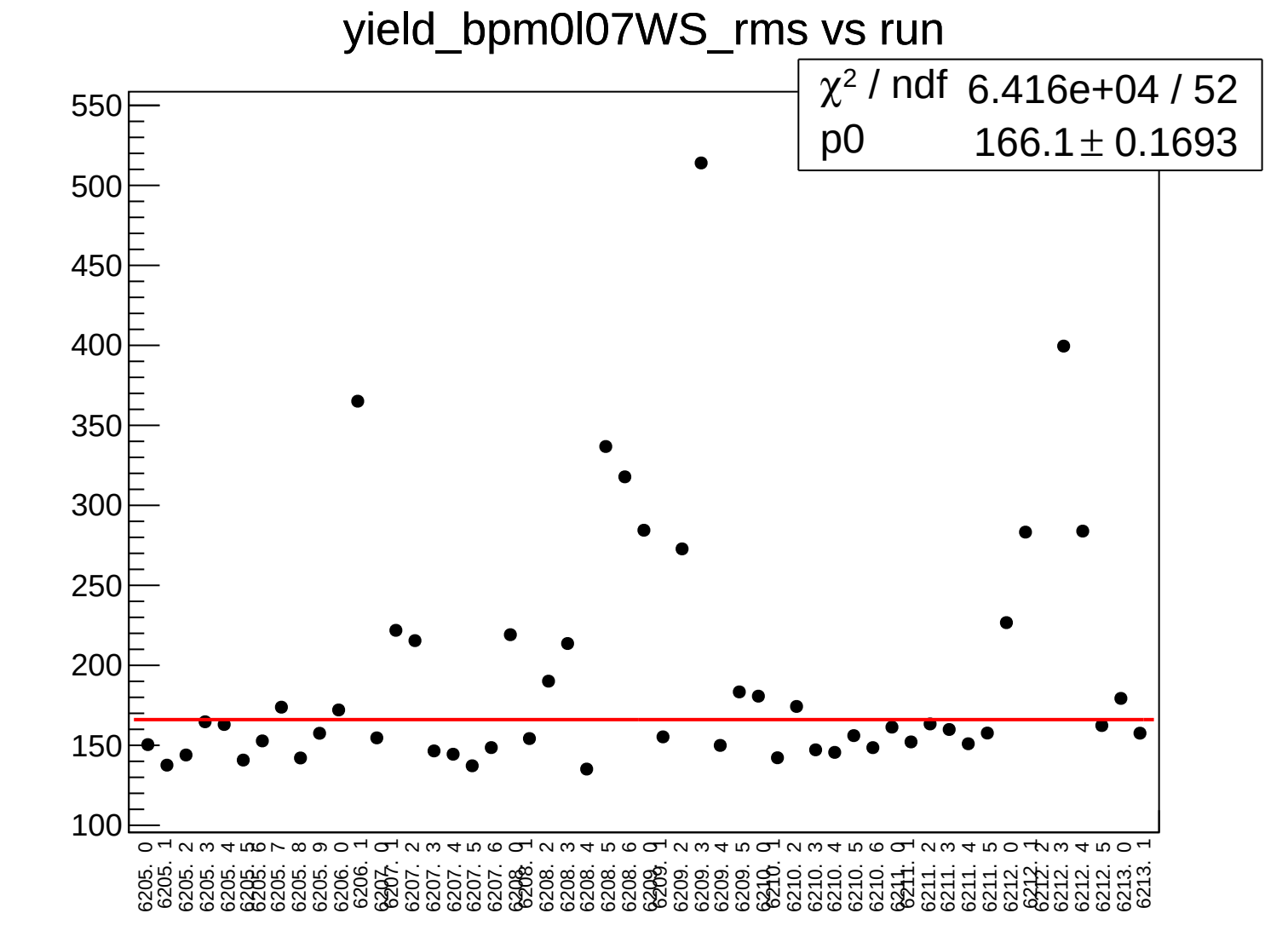

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.425e+05 / 52
p0 1.284e+05 ± 0.2182
128.6
128.55
128.5
128.45
128.4
128.35
128.3
128.25
128.2
pull
Entries 53
Mean −614.8
Std Dev 640.1
100
50
0
−50
−100

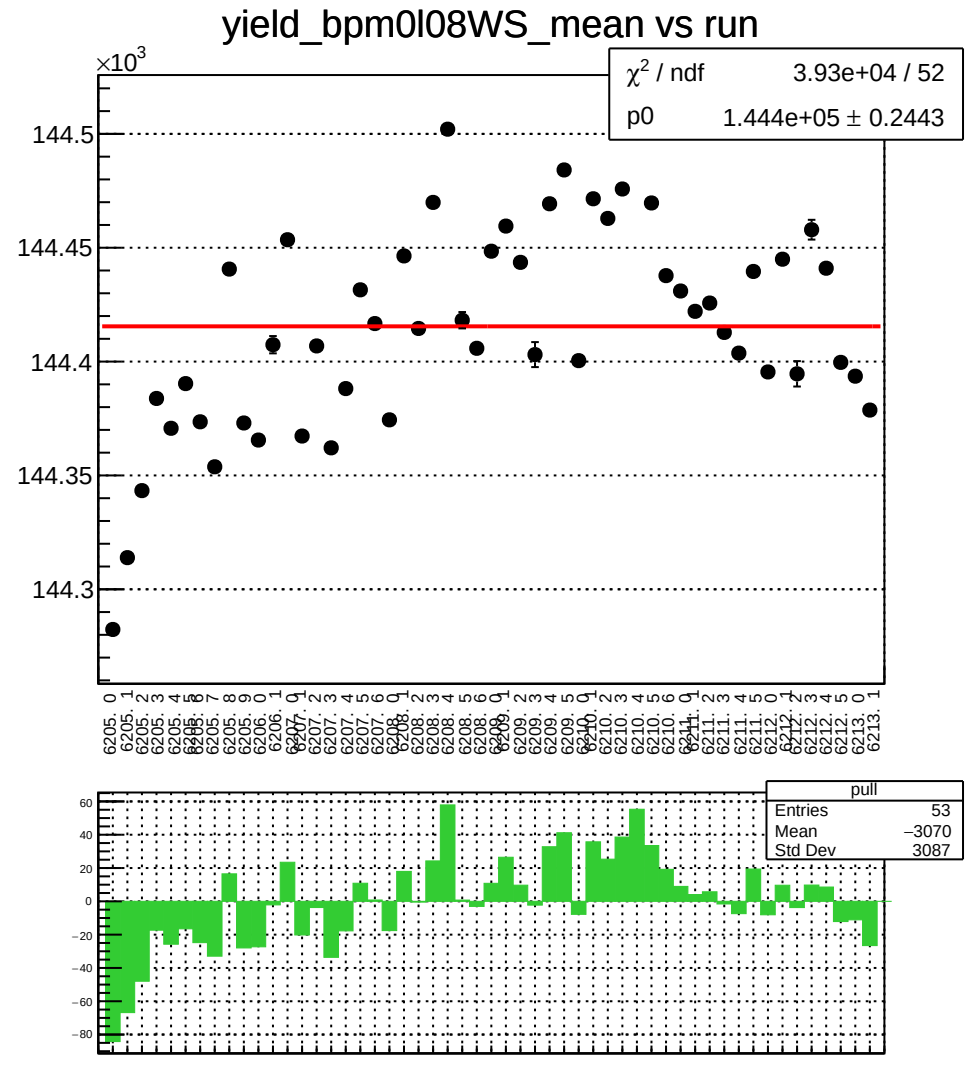

pull1D
Entries 53
Mean −1.043
Std Dev 4.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

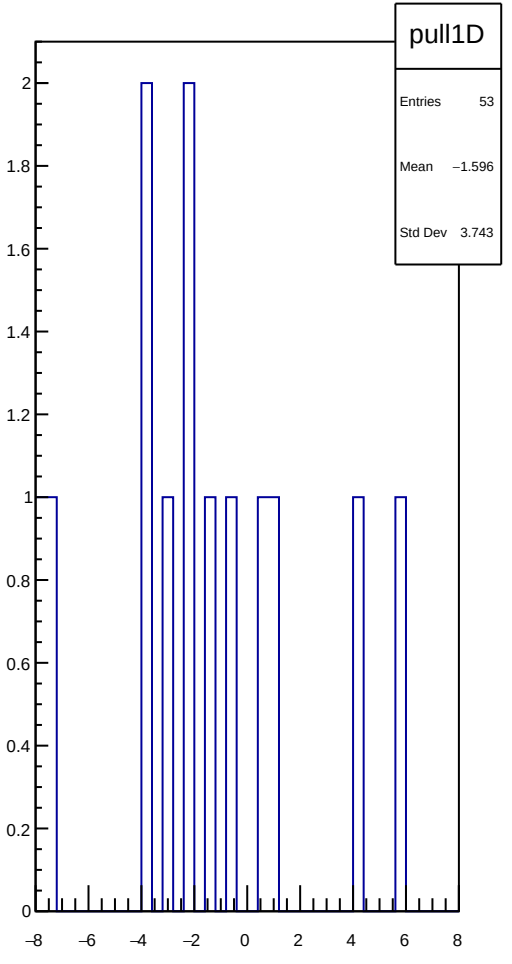

yield_bpm0l06WS_rms vs run
χ² / ndf 6.453e+04 / 52
p0 151.3 ± 0.1543
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

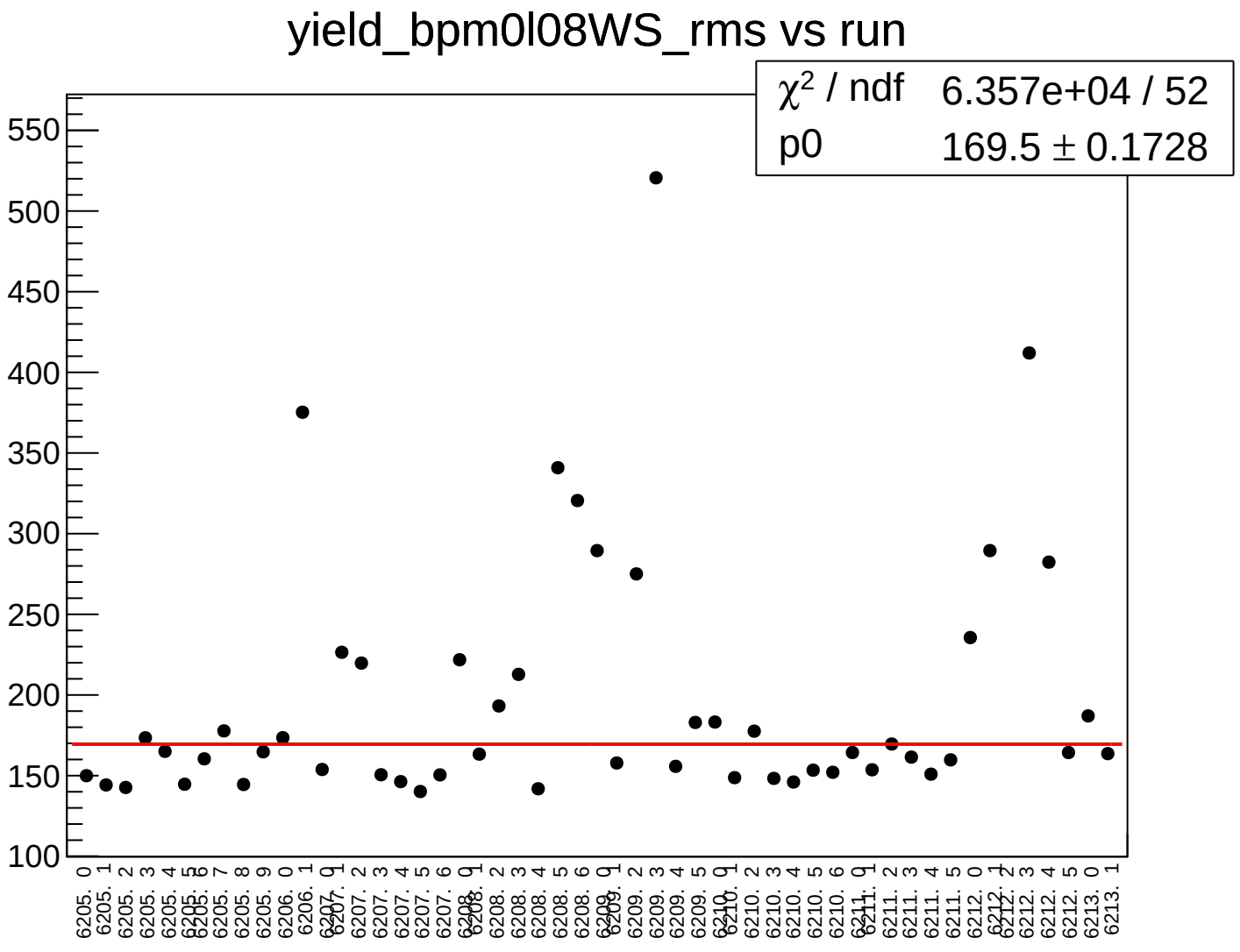

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.348e+04 / 52
p0 1.406e+05 ± 0.2395
140.62
140.6
140.58
140.56
140.54
140.52
140.5
pull
Entries 53
Mean 141.3
Std Dev 122.4
40
30
20
10
0
−10
−20
−30

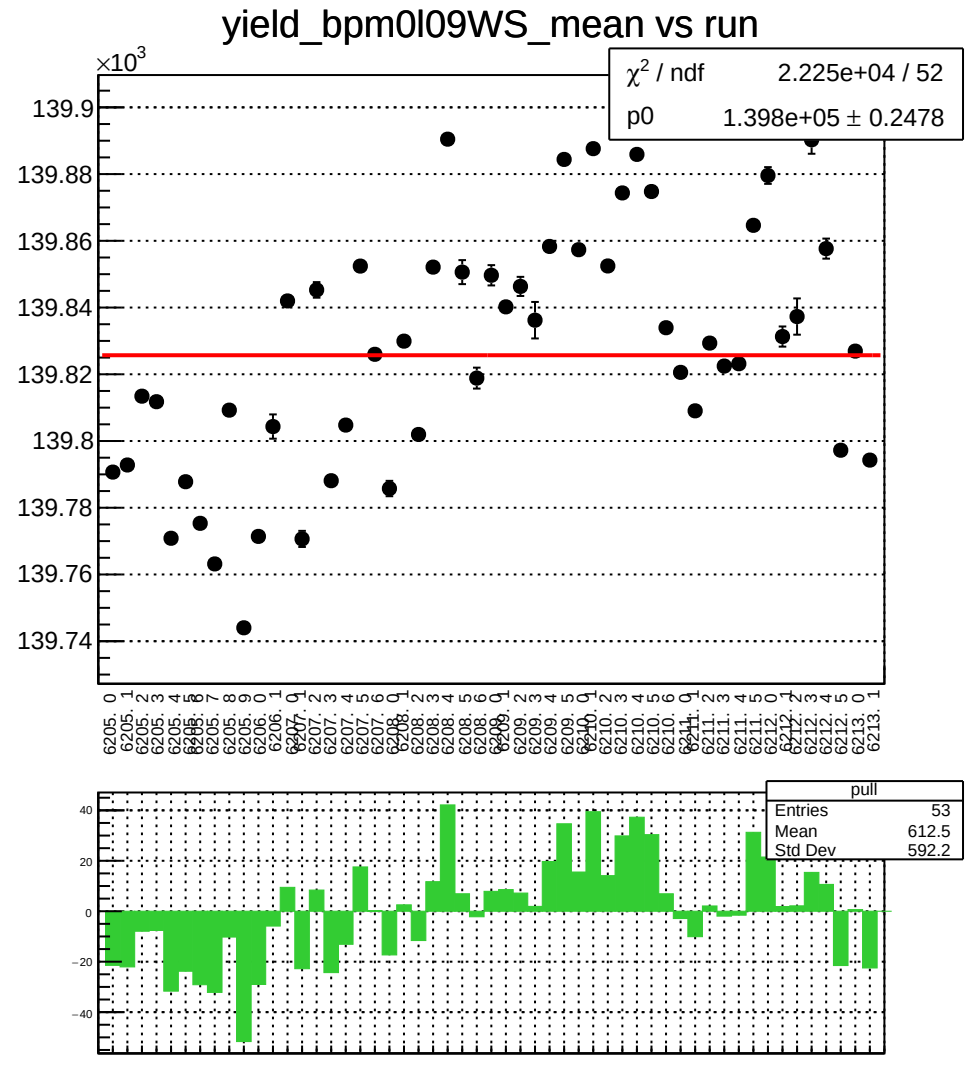

pull1D
Entries 53
Mean 0.2128
Std Dev 3.86
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

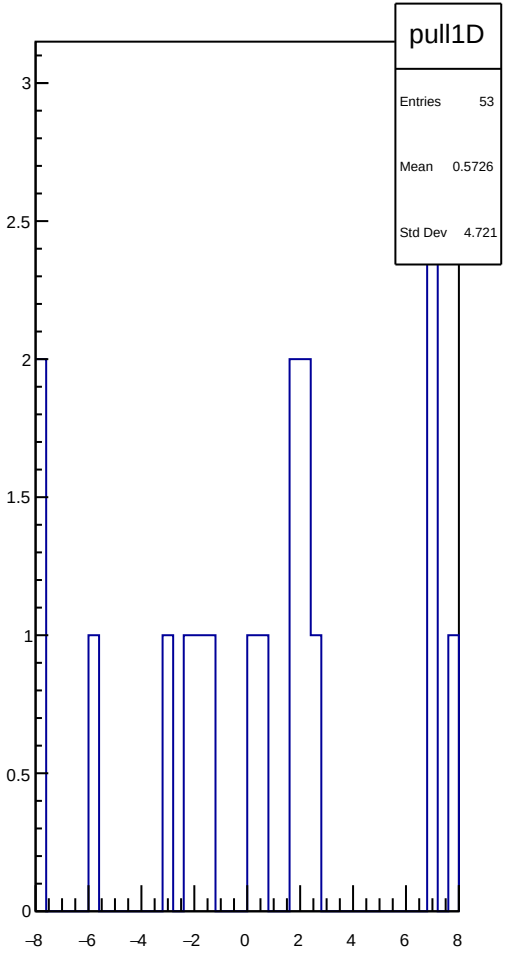

yield_bpm0l07WS_rms vs run
χ² / ndf 6.416e+04 / 52
p0 166.1 ± 0.1693
550
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

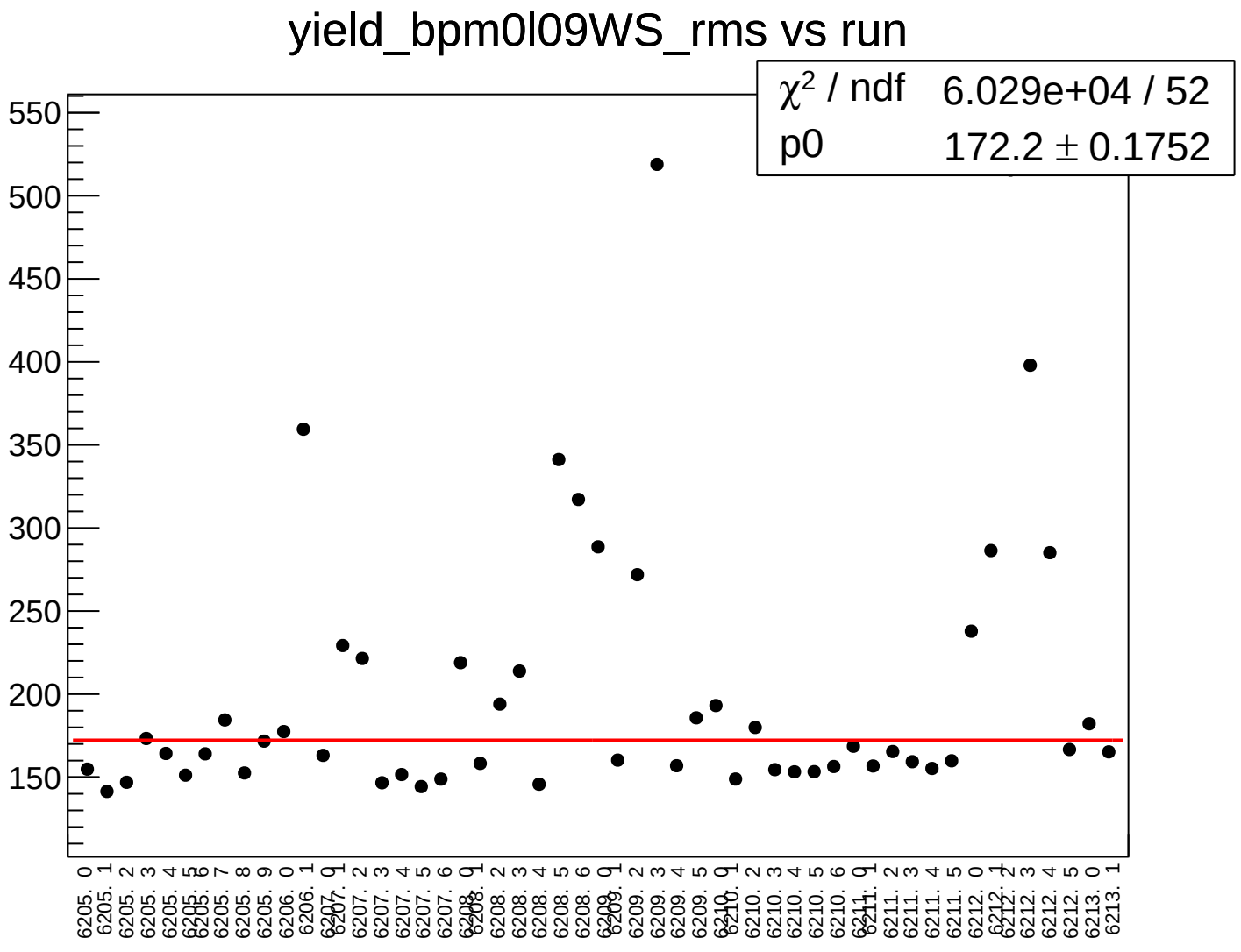

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 3.93e+04 / 52
p0 1.444e+05 ± 0.2443
144.5
144.45
144.4
144.35
144.3
pull
Entries 53
Mean −3070
Std Dev 3087
60
40
20
0
−20
−40
−60
−80

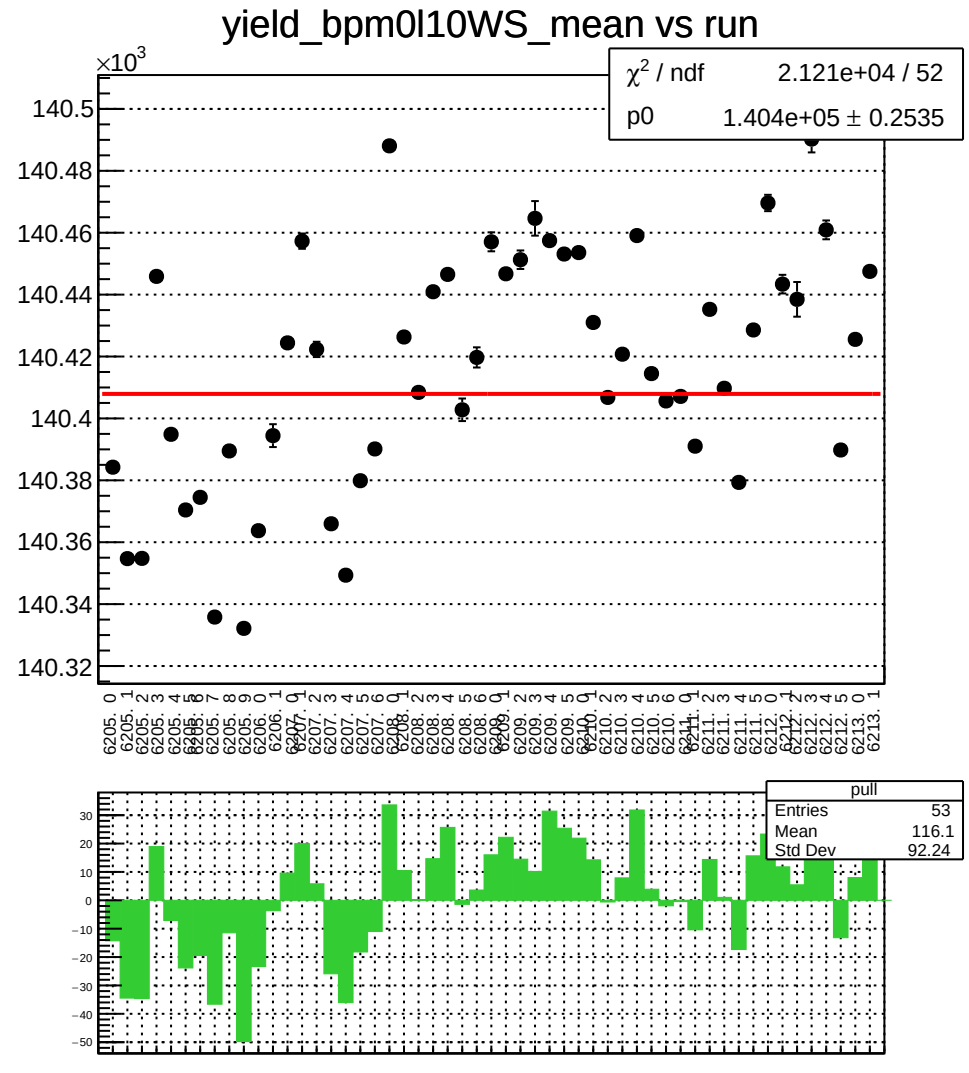

pull1D
Entries 53
Mean −1.596
Std Dev 3.743
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

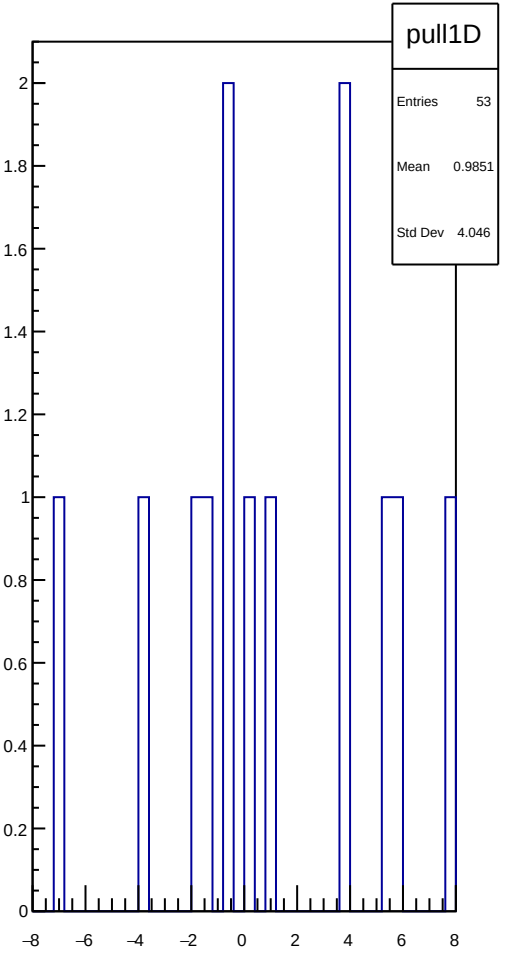

yield_bpm0l08WS_rms vs run
χ² / ndf 6.357e+04 / 52
p0 169.5 ± 0.1728
550
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

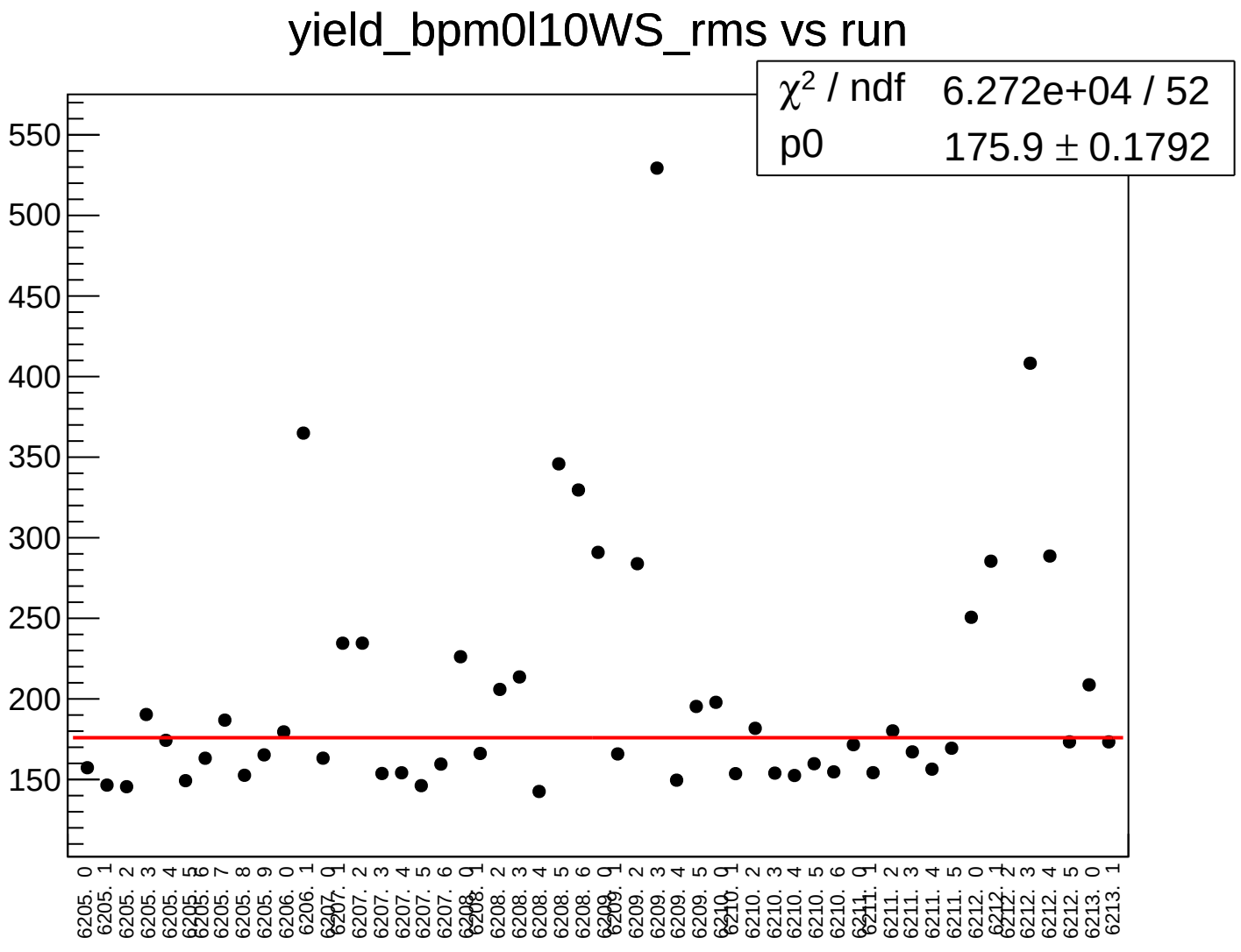

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.225e+04 / 52
p0 1.398e+05 ± 0.2478
139.9
139.88
139.86
139.84
139.82
139.8
139.78
139.76
139.74
pull
Entries 53
Mean 612.5
Std Dev 592.2
40
20
0
−20
−40

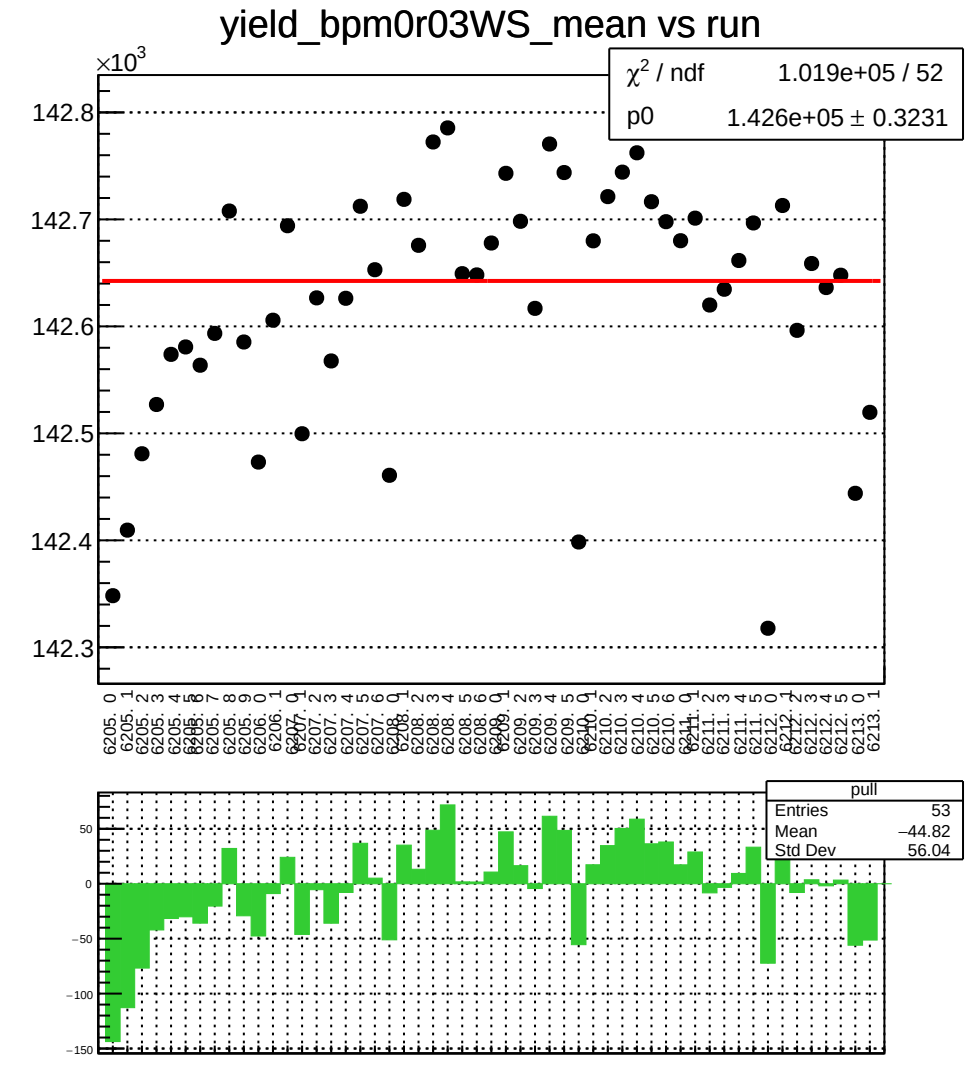

pull1D
Entries 53
Mean 0.5726
Std Dev 4.721
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

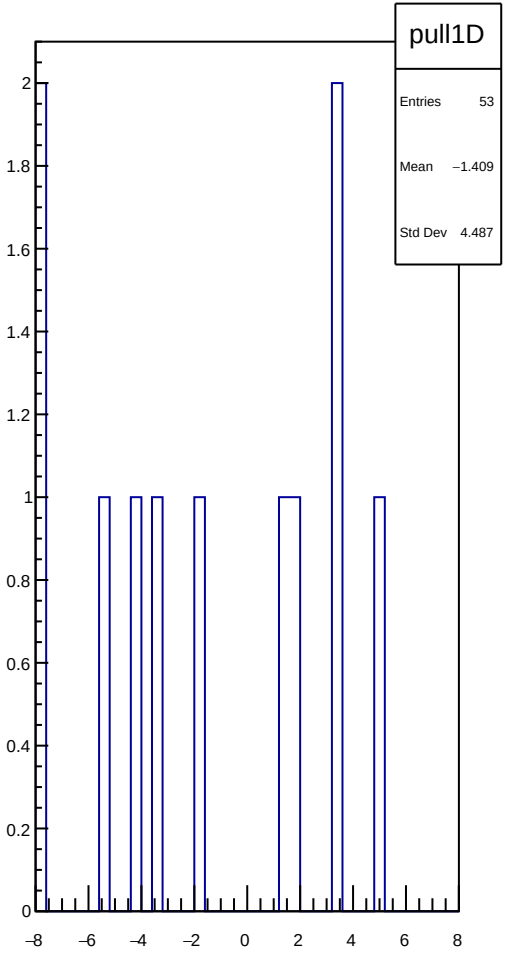

yield_bpm0l09WS_rms vs run
χ² / ndf 6.029e+04 / 52
p0 172.2 ± 0.1752
550
500
450
400
350
300
250
200
150
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

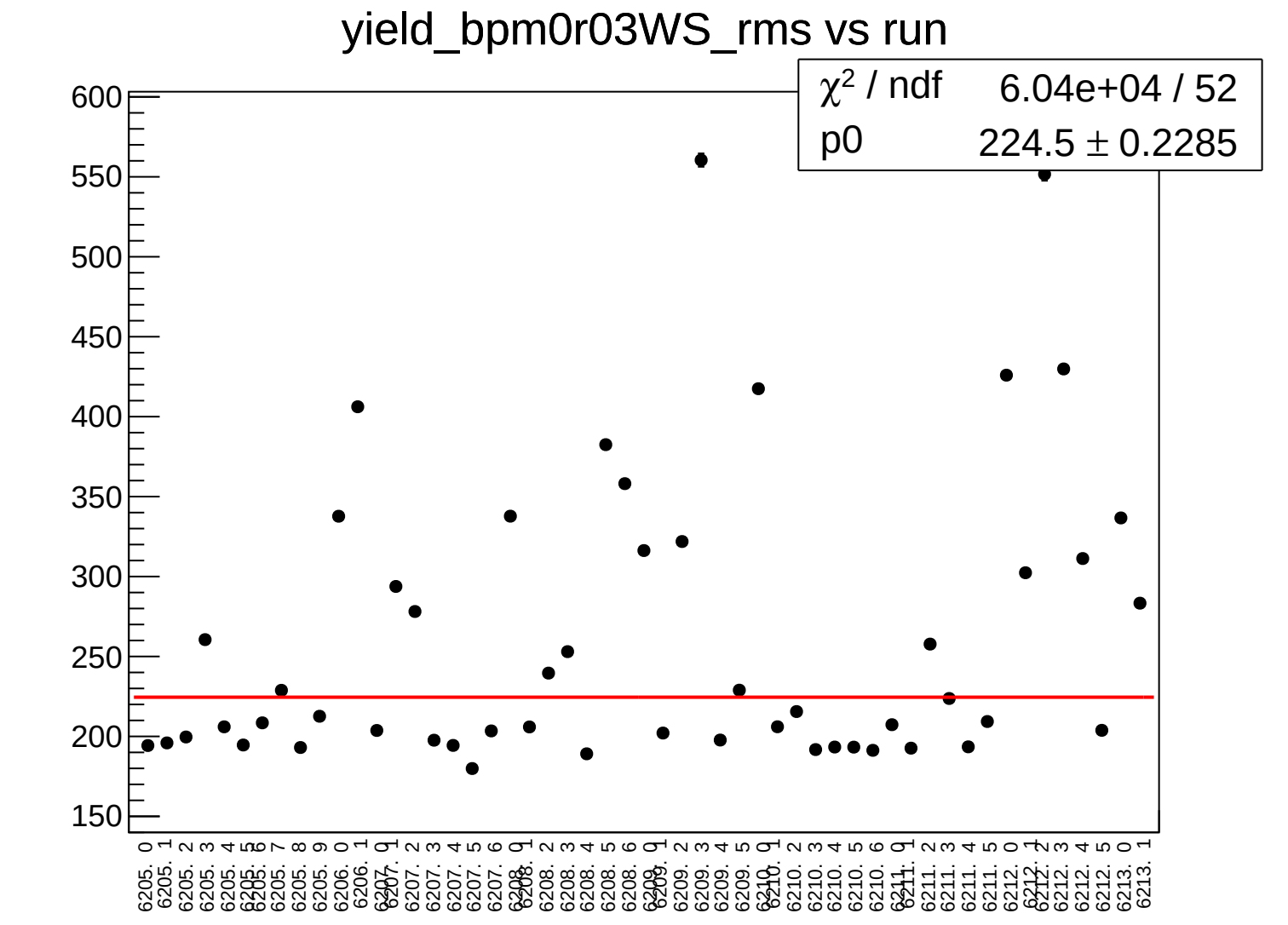

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.121e+04 / 52
p0 1.404e+05 ± 0.2535
140.5
140.48
140.46
140.44
140.42
140.4
140.38
140.36
140.34
140.32
pull
Entries 53
Mean 116.1
Std Dev 92.24
30
20
10
0
−10
−20
−30
−40
−50

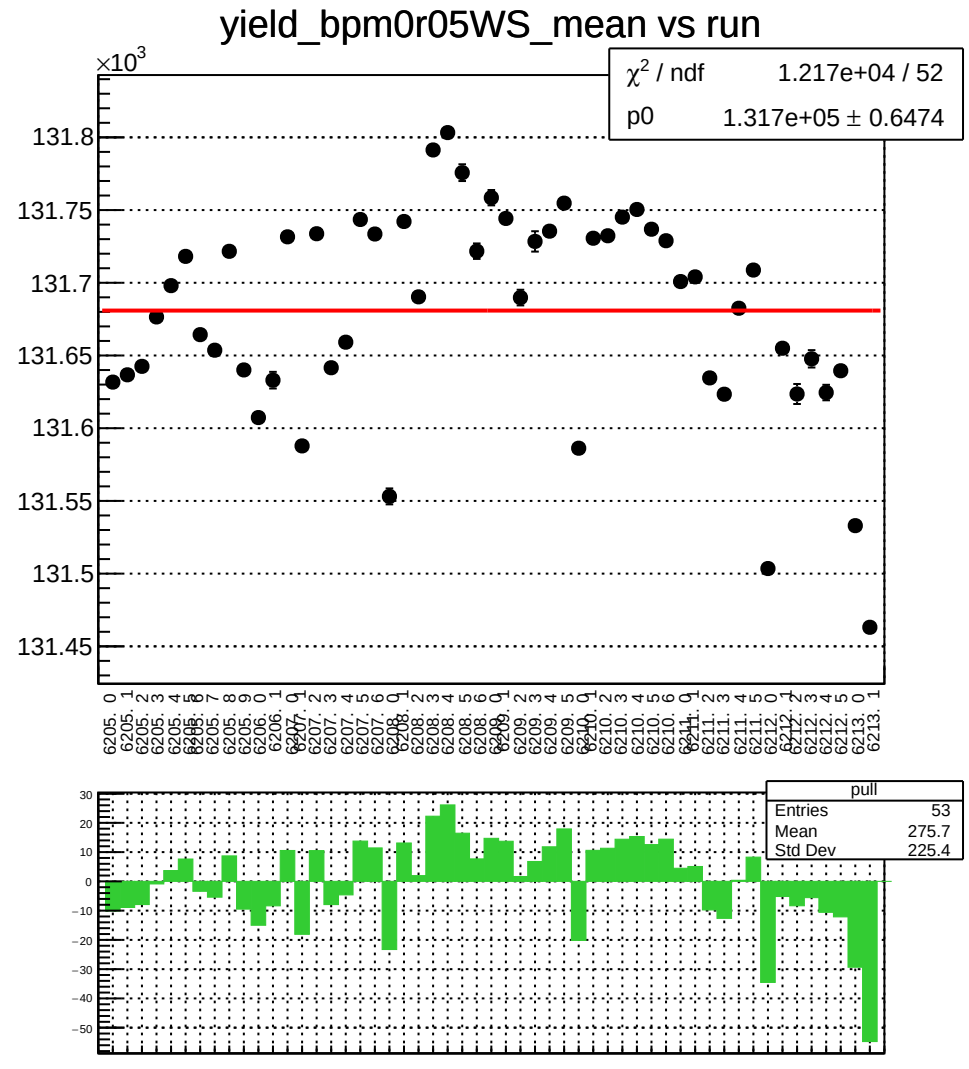

pull1D
Entries 53
Mean 0.9851
Std Dev 4.046
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

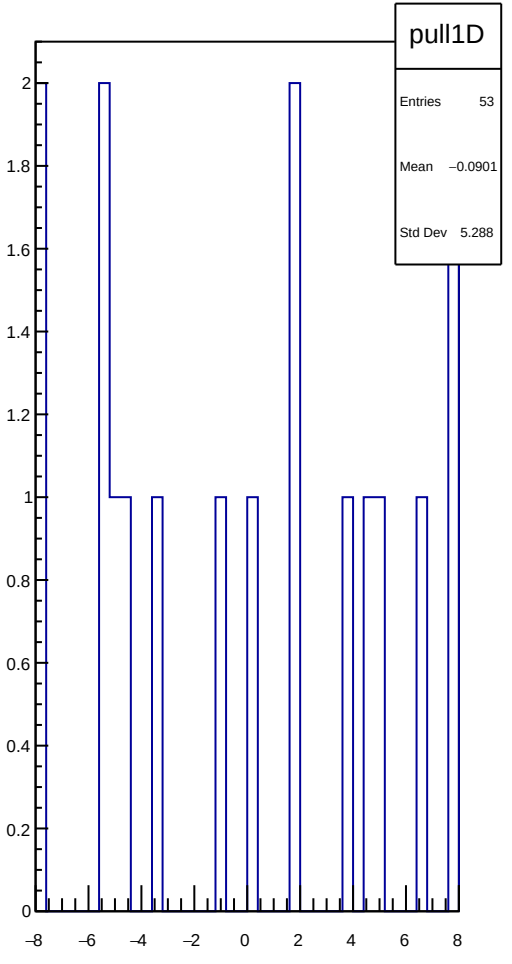

yield_bpm0l10WS_rms vs run
χ² / ndf 6.272e+04 / 52
p0 175.9 ± 0.1792
550
500
450
400
350
300
250
200
150
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

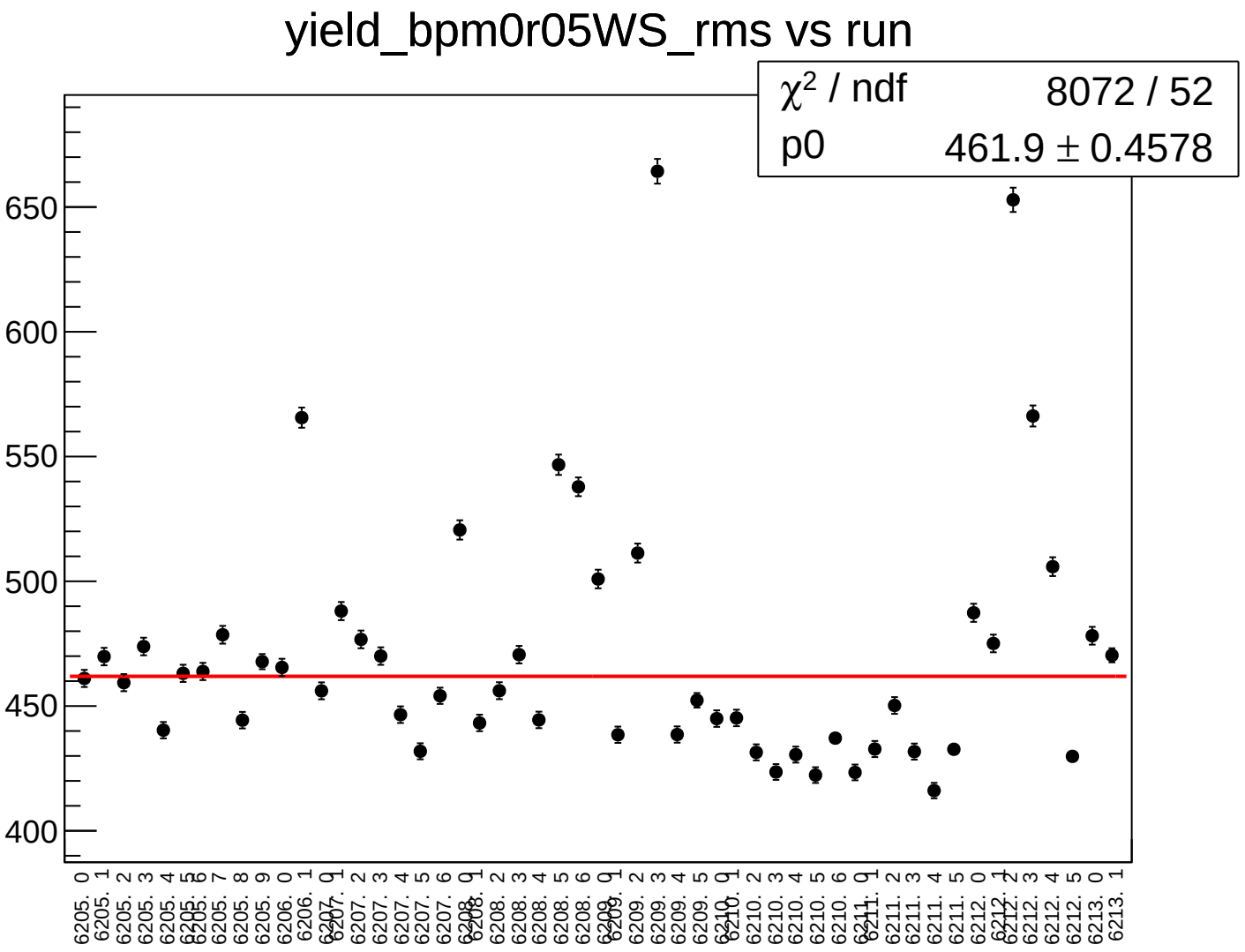

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 1.019e+05 / 52
p0 1.426e+05 ± 0.3231
142.8
142.7
142.6
142.5
142.4
142.3
pull
Entries 53
Mean −44.82
Std Dev 56.04
50
0
−50
−100
−150

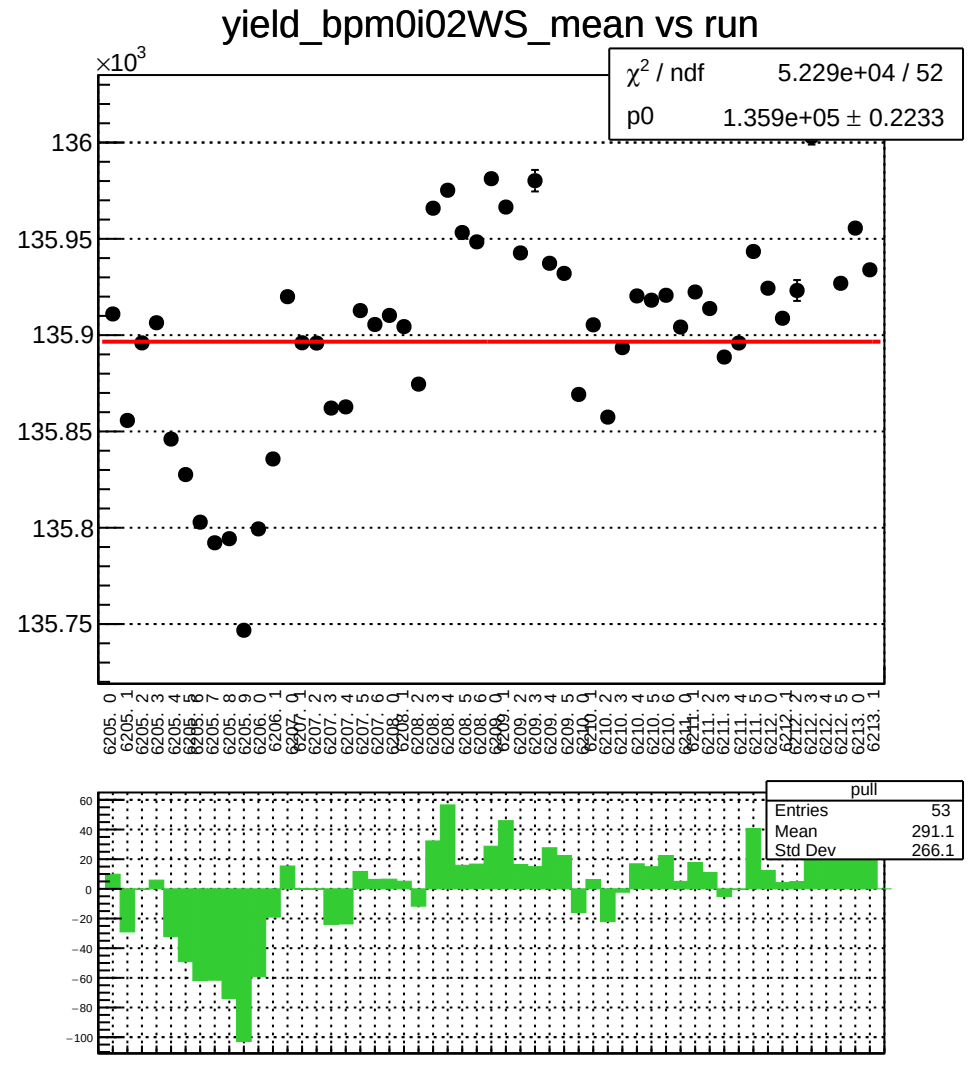

pull1D
Entries 53
Mean −1.409
Std Dev 4.487
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

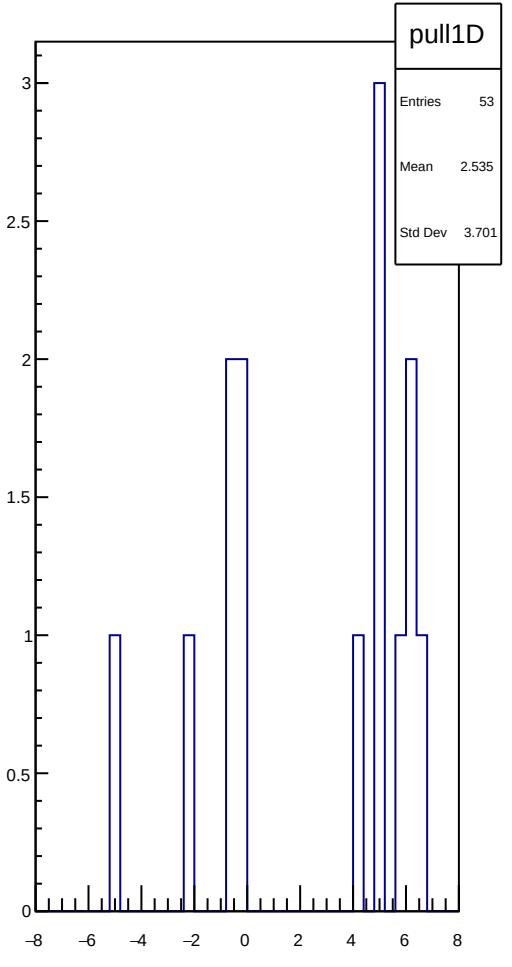

yield_bpm0r03WS_rms vs run
χ² / ndf 6.04e+04 / 52
p0 224.5 ± 0.2285
600
550
500
450
400
350
300
250
200
150
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

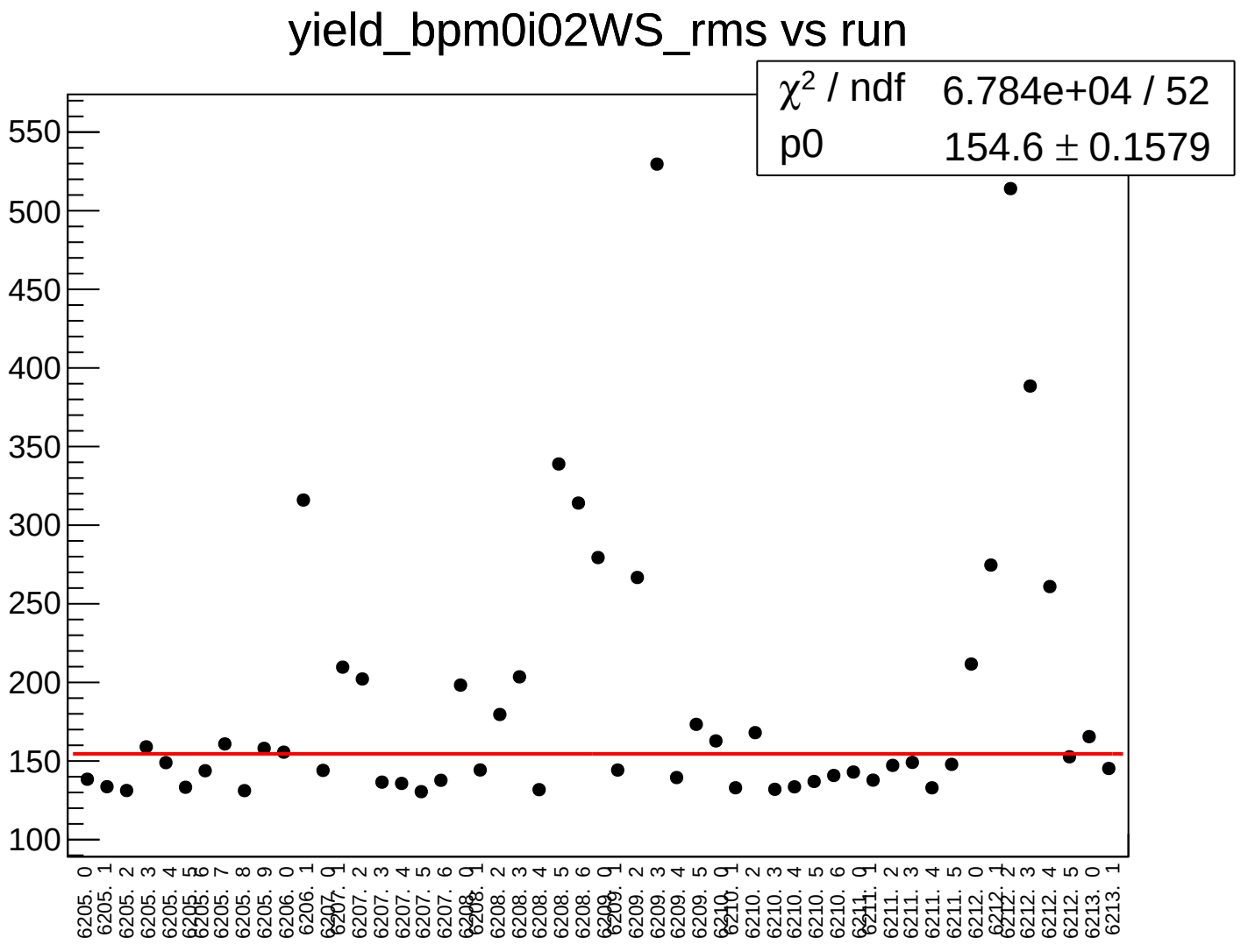

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.217e+04 / 52
p0 1.317e+05 ± 0.6474
131.8
131.75
131.7
131.65
131.6
131.55
131.5
131.45
pull
Entries 53
Mean 275.7
Std Dev 225.4
30
20
10
0
−10
−20
−30
−40
−50

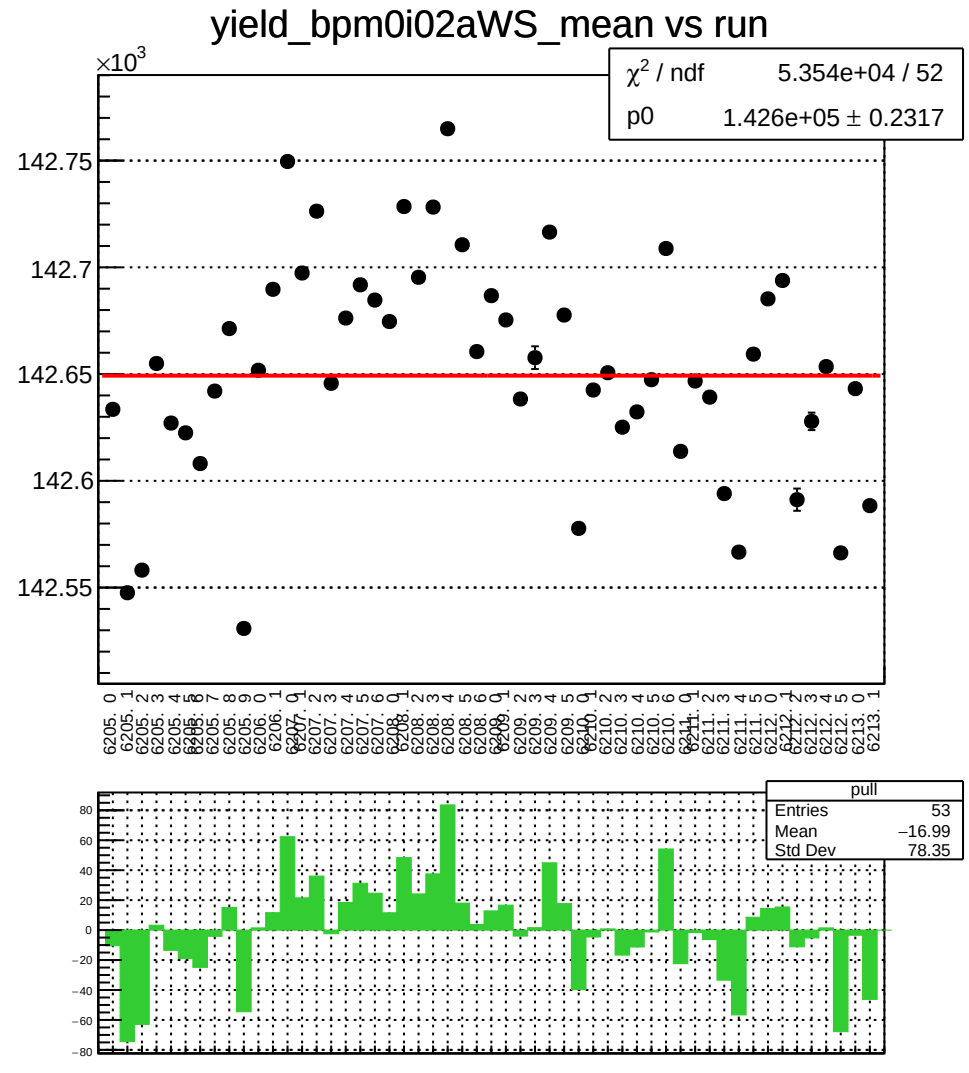

pull1D
Entries 53
Mean −0.0901
Std Dev 5.288
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

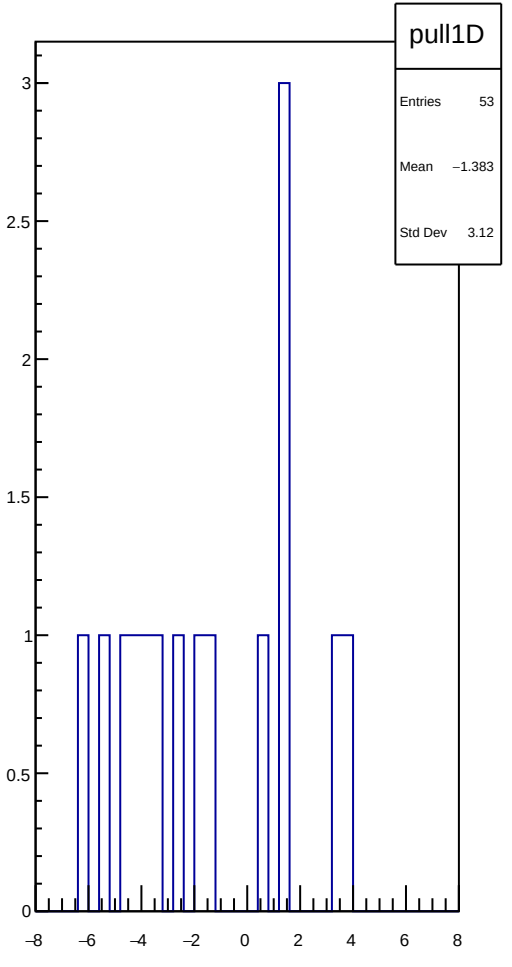

yield_bpm0r05WS_rms vs run
χ² / ndf 8072 / 52
p0 461.9 ± 0.4578
650
600
550
500
450
400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

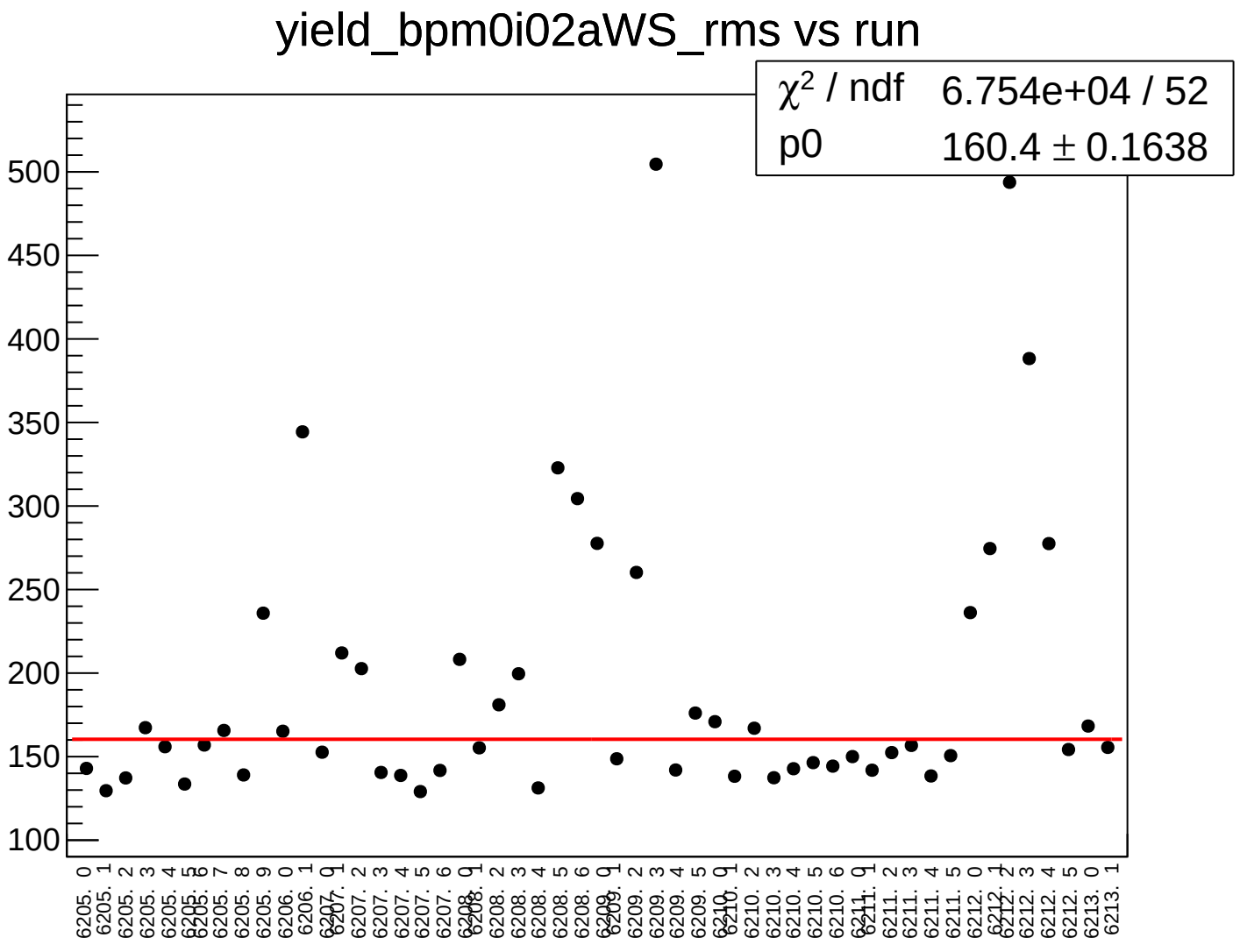

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 5.229e+04 / 52
p0 1.359e+05 ± 0.2233
136
135.95
135.9
135.85
135.8
135.75
pull
Entries 53
Mean 291.1
Std Dev 266.1
60
40
20
0
−20
−40
−60
−80
−100

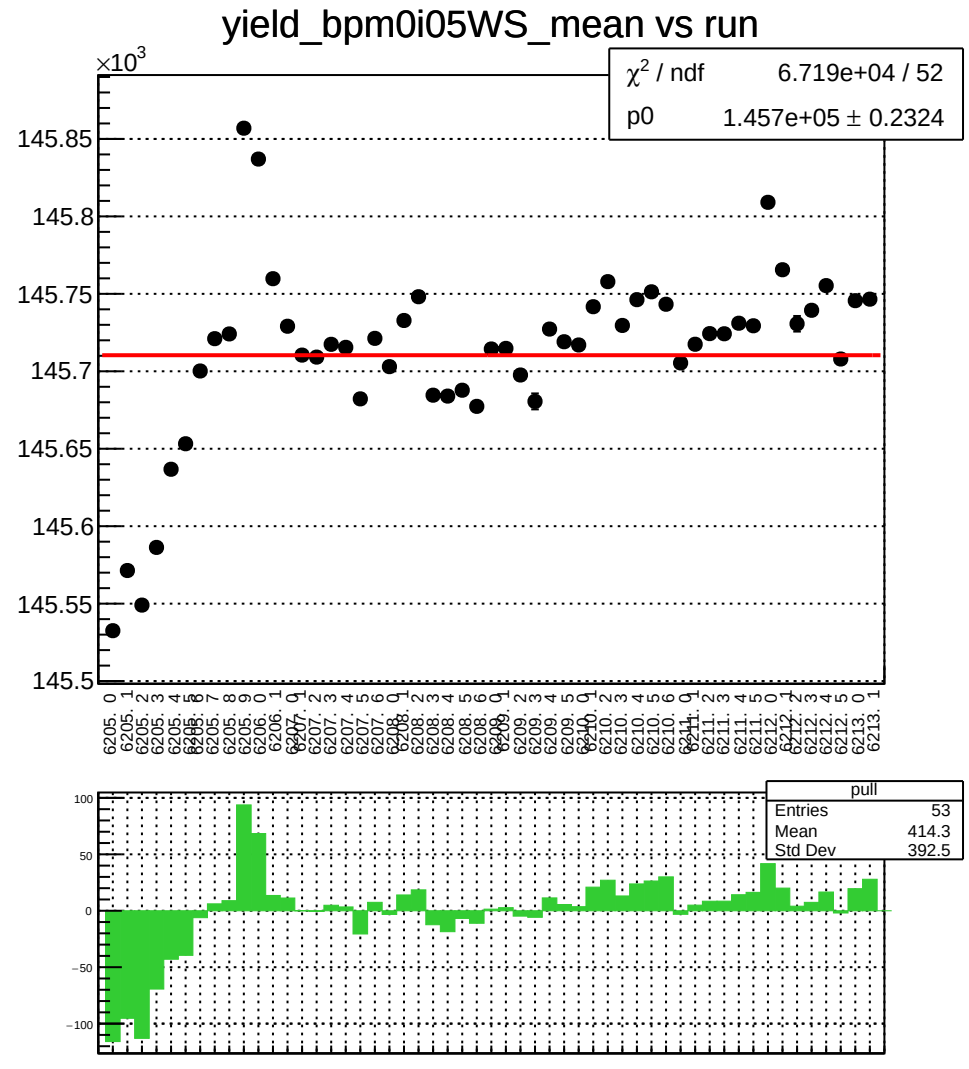

pull1D
Entries 53
Mean 2.535
Std Dev 3.701
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

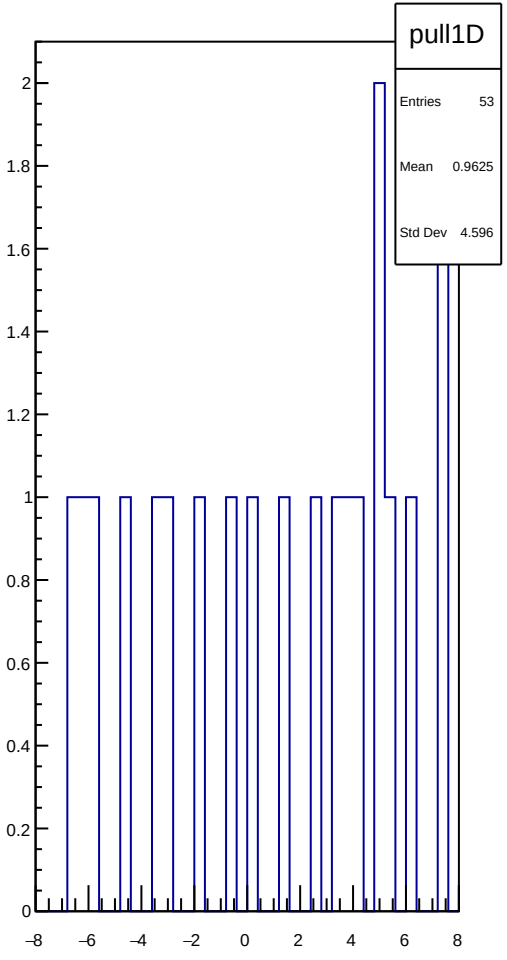

yield_bpm0i02WS_rms vs run
χ² / ndf 6.784e+04 / 52
p0 154.6 ± 0.1579
550
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

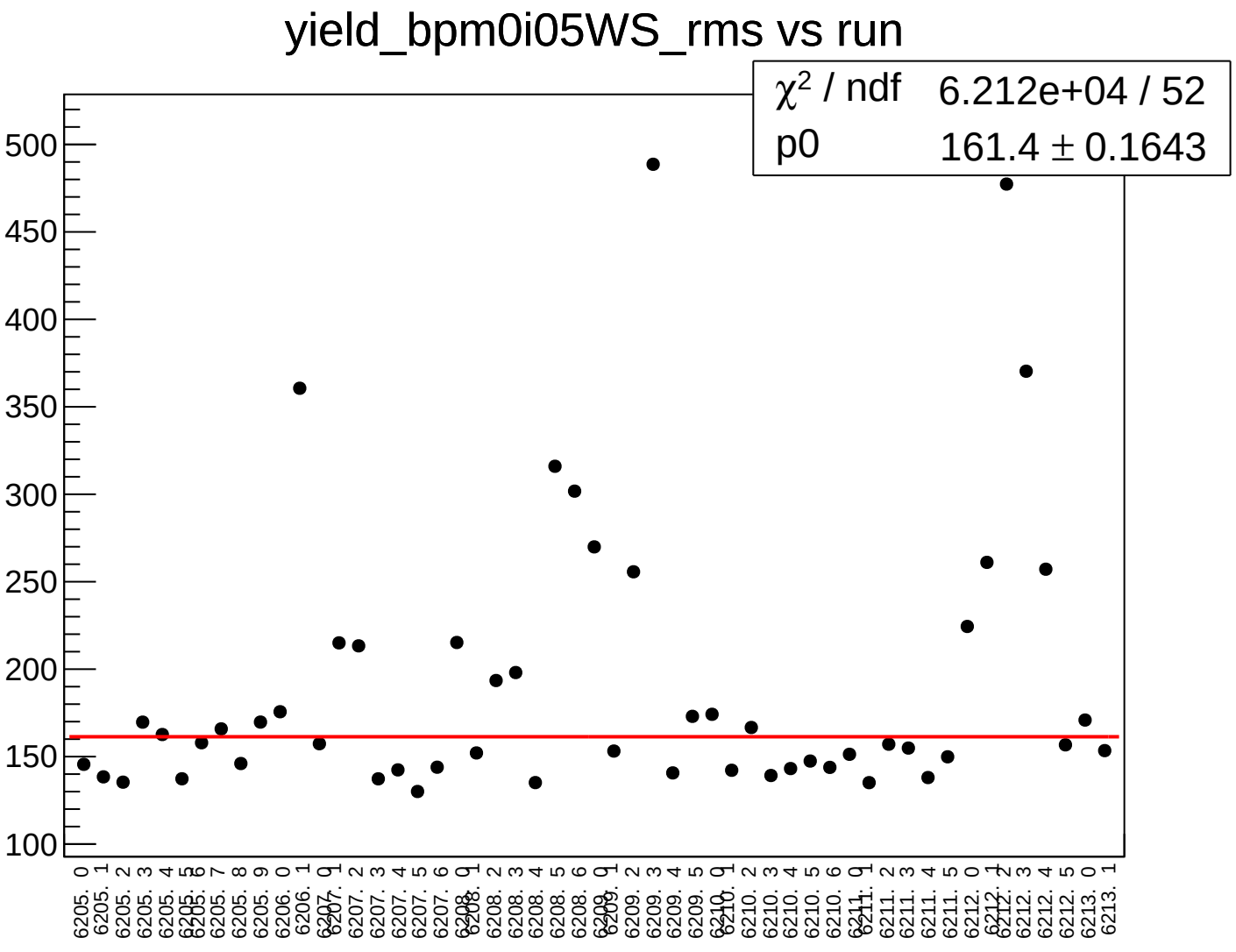

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 5.354e+04 / 52
p0 1.426e+05 ± 0.2317
142.75
142.7
142.65
142.6
142.55
pull
Entries 53
Mean −16.99
Std Dev 78.35
80
60
40
20
0
−20
−40
−60
−80

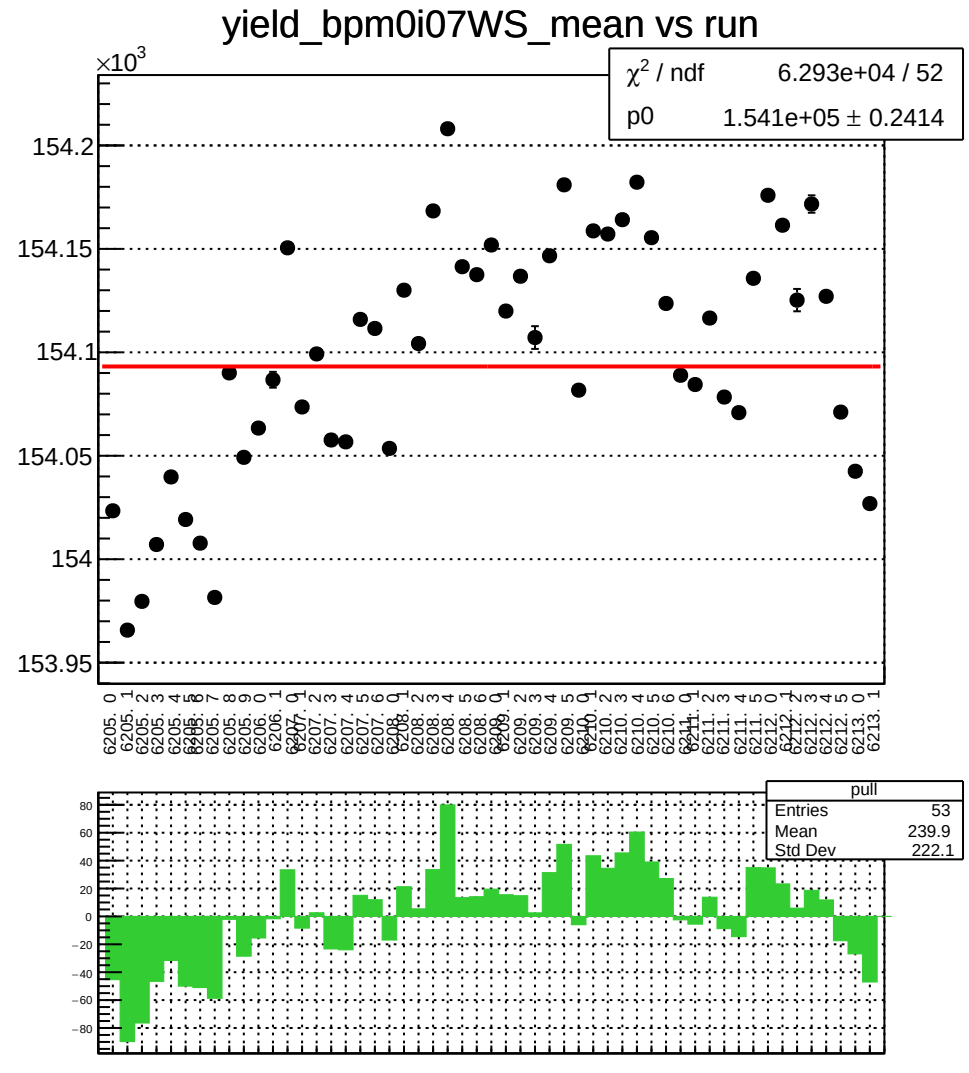

pull1D
Entries 53
Mean −1.383
Std Dev 3.12
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

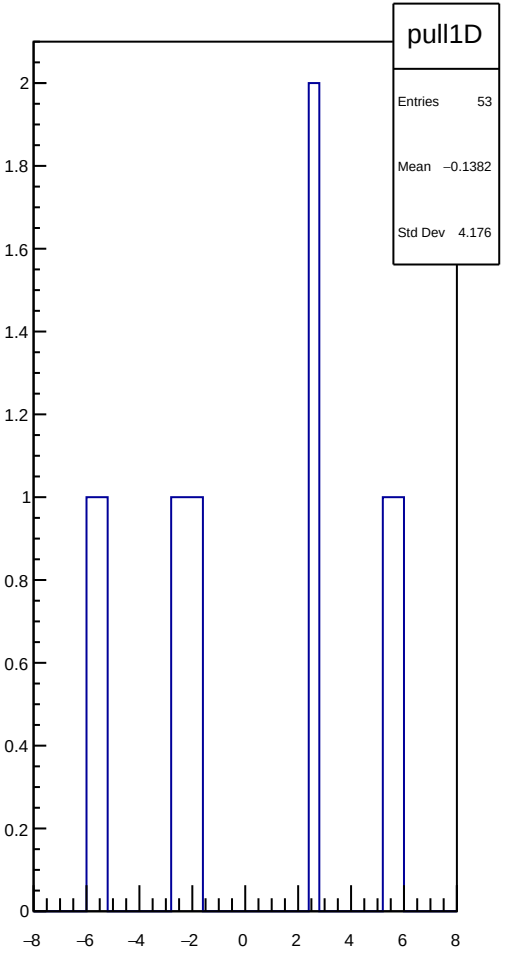

yield_bpm0i02aWS_rms vs run
χ² / ndf 6.754e+04 / 52
p0 160.4 ± 0.1638
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

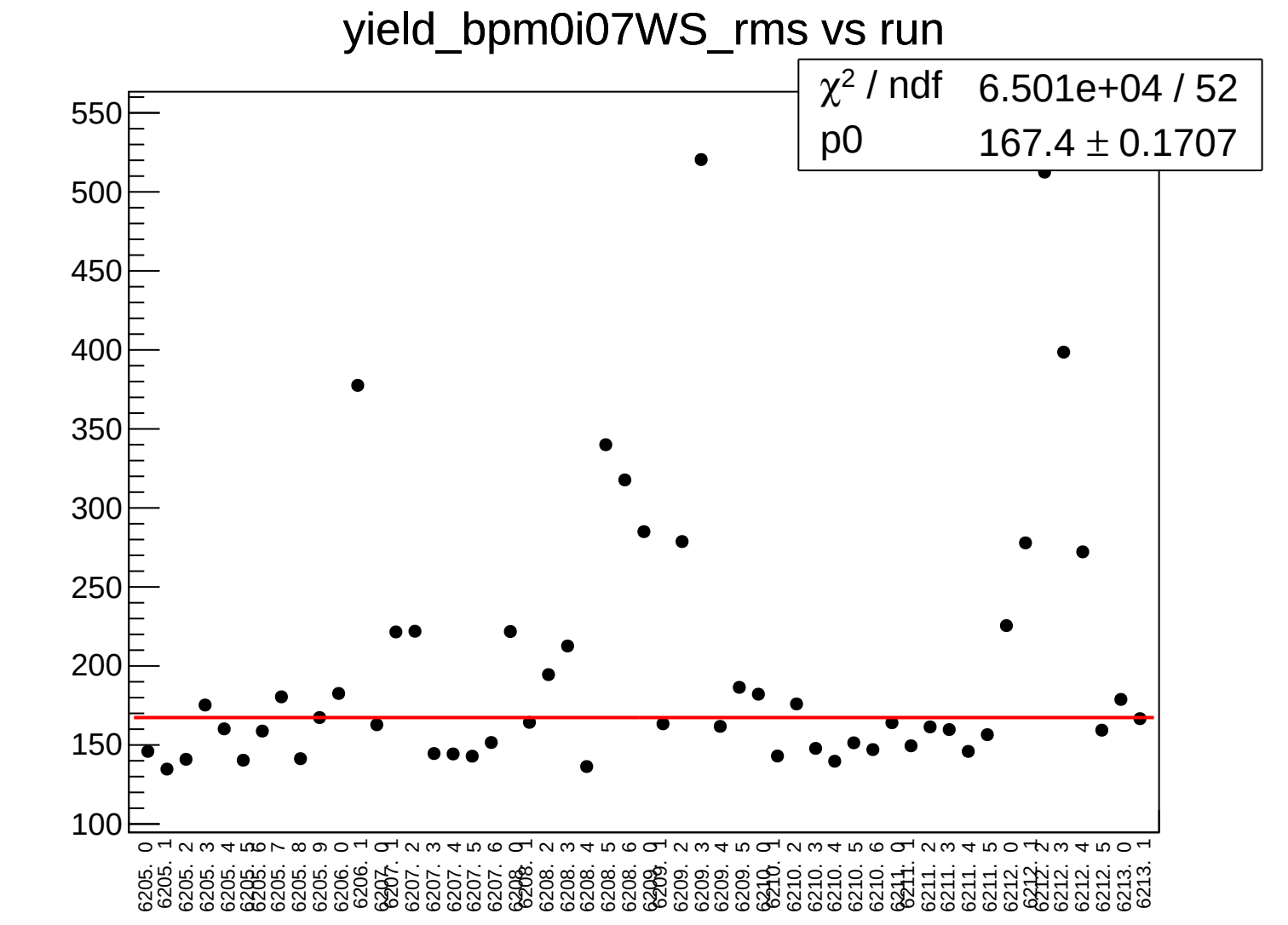

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.719e+04 / 52
p0 1.457e+05 ± 0.2324
145.85
145.8
145.75
145.7
145.65
145.6
145.55
145.5
pull
Entries 53
Mean 414.3
Std Dev 392.5
100
50
0
−50
−100

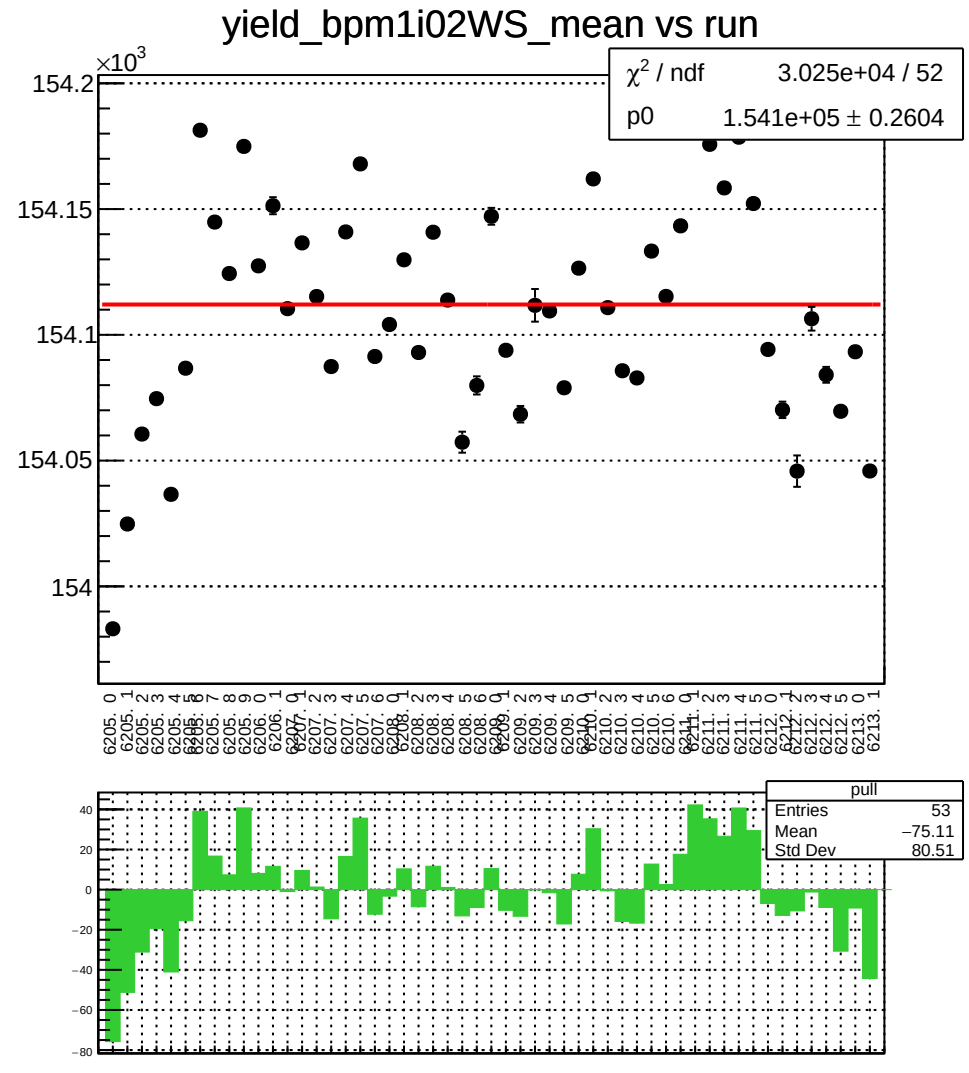

pull1D
Entries 53
Mean 0.9625
Std Dev 4.596
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

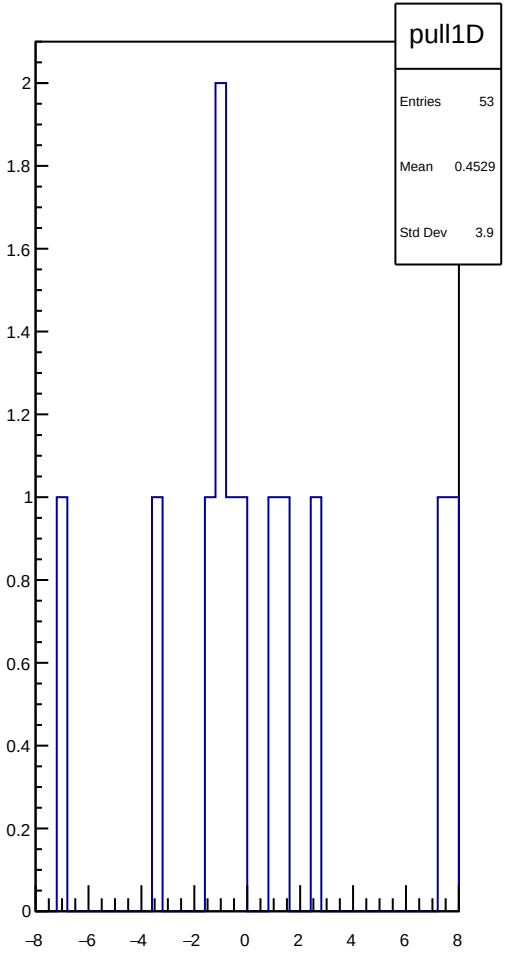

yield_bpm0i05WS_rms vs run
χ² / ndf 6.212e+04 / 52
p0 161.4 ± 0.1643
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

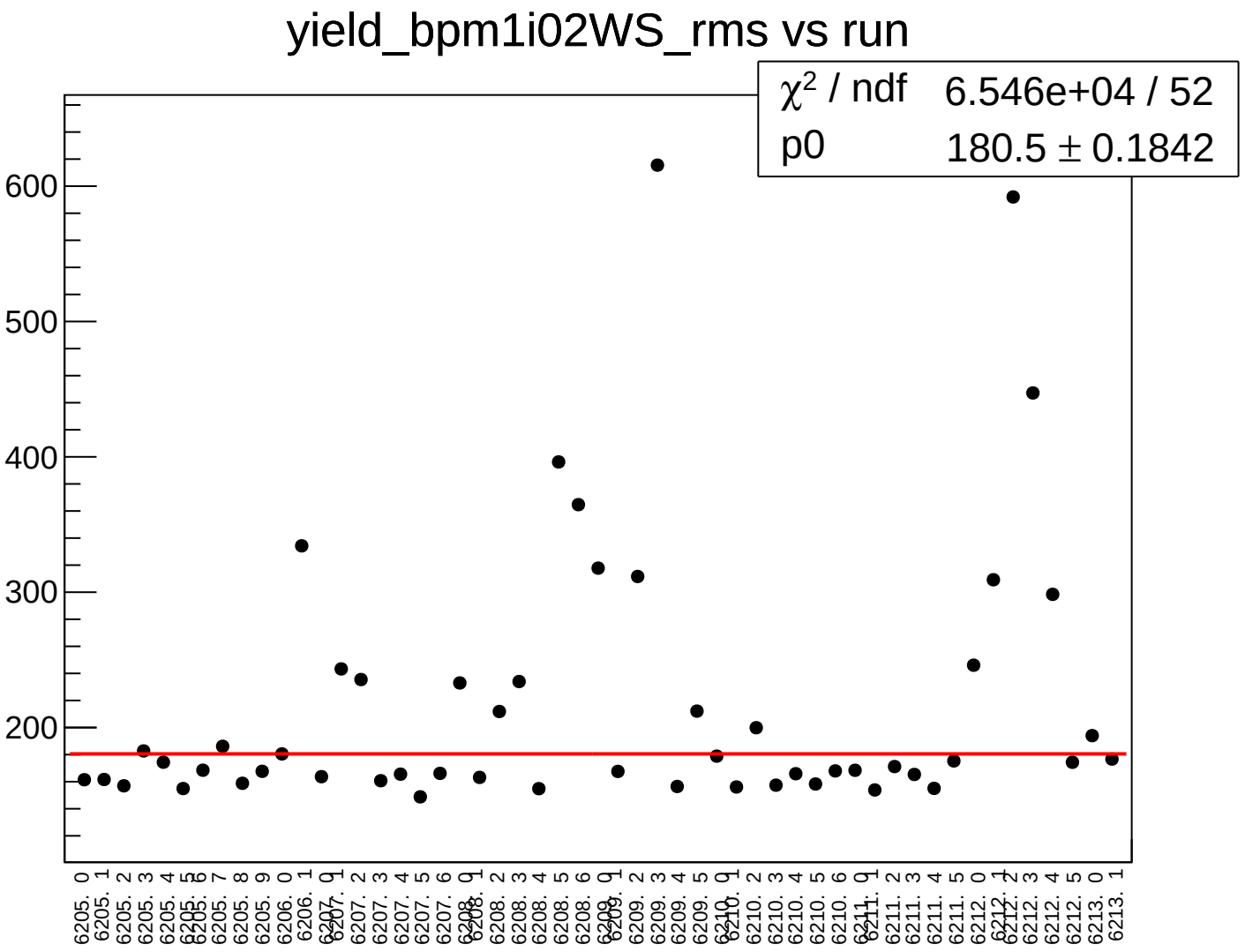

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 6.293e+04 / 52
p0 1.541e+05 ± 0.2414
154.2
154.15
154.1
154.05
154
153.95
pull
Entries 53
Mean 239.9
Std Dev 222.1
80
60
40
20
0
−20
−40
−60
−80

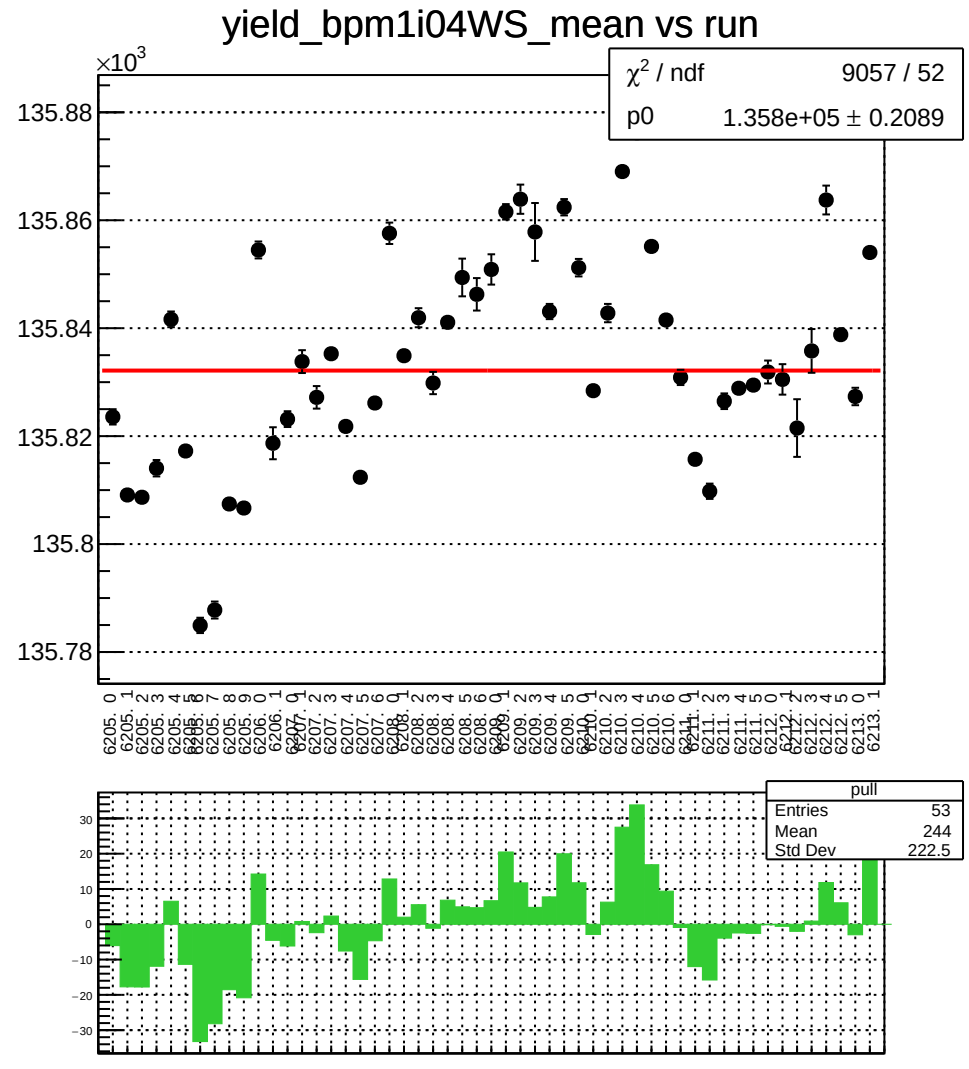

pull1D
Entries 53
Mean −0.1382
Std Dev 4.176
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

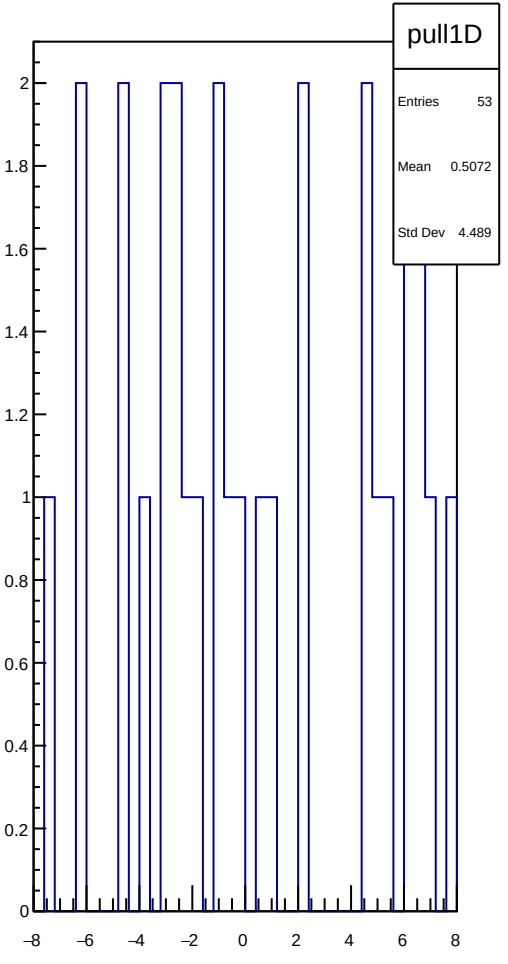

yield_bpm0i07WS_rms vs run
χ² / ndf 6.501e+04 / 52
p0 167.4 ± 0.1707
550
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

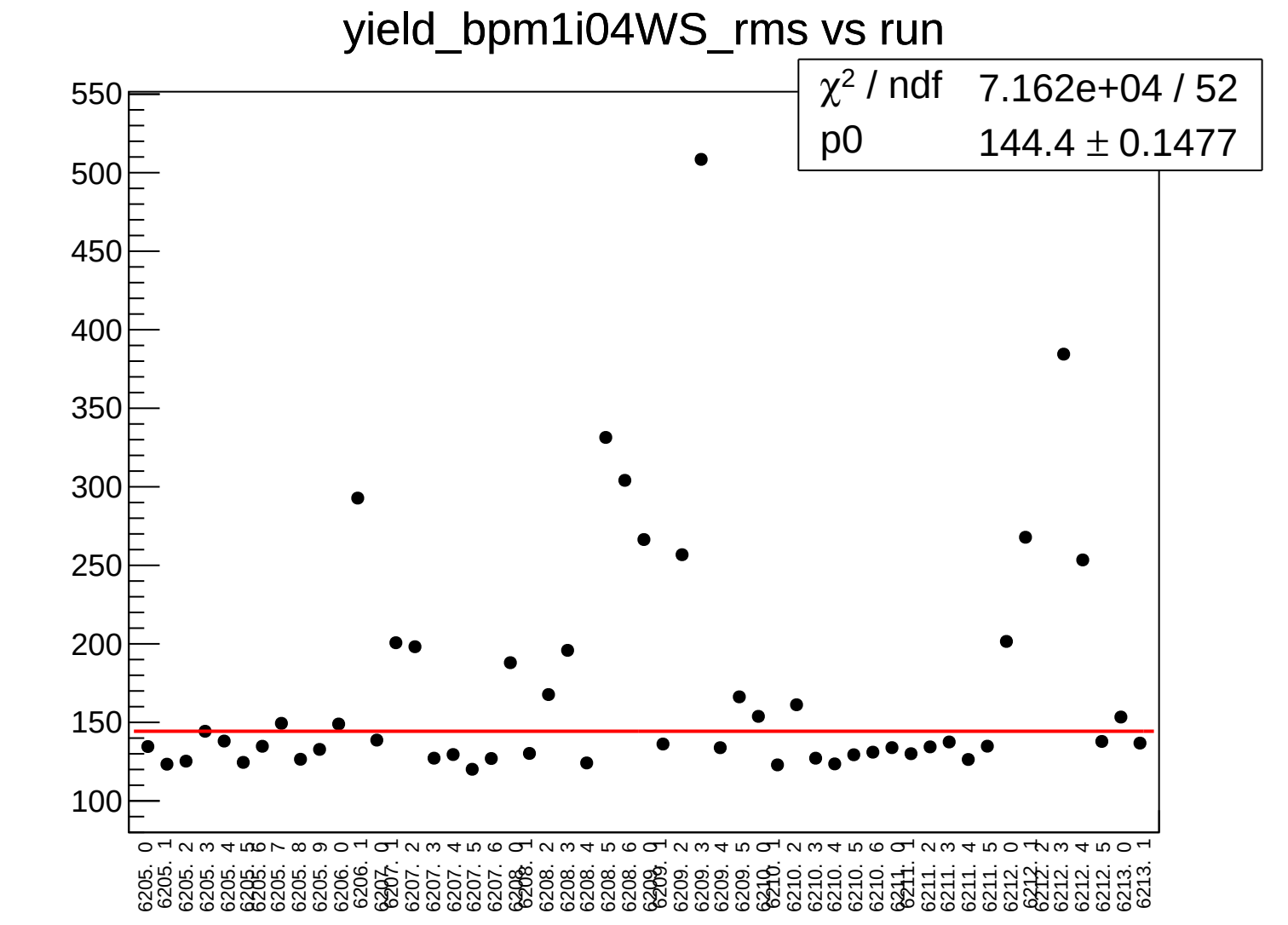

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 3.025e+04 / 52
p0 1.541e+05 ± 0.2604
154.2
154.15
154.1
154.05
154
pull
Entries 53
Mean −75.11
Std Dev 80.51
40
20
0
−20
−40
−60
−80

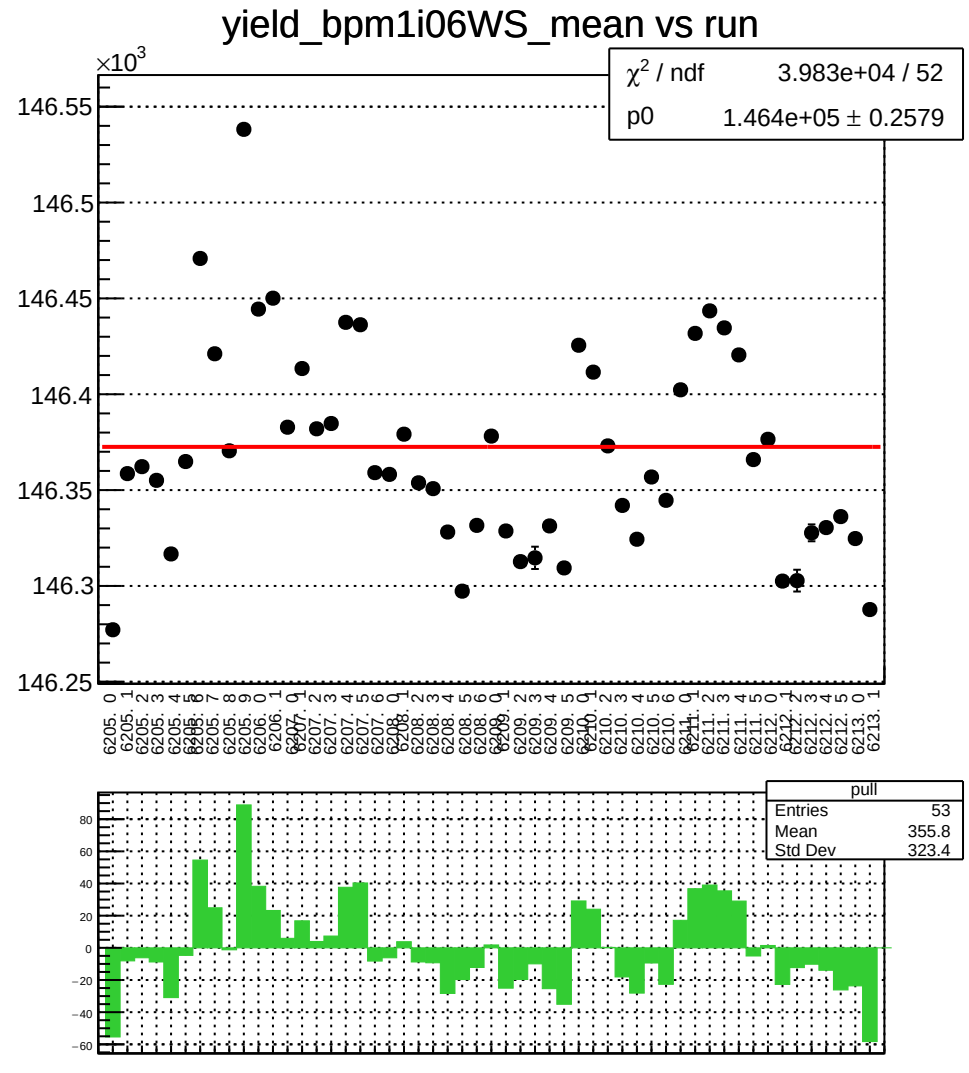

pull1D
Entries 53
Mean 0.4529
Std Dev 3.9
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

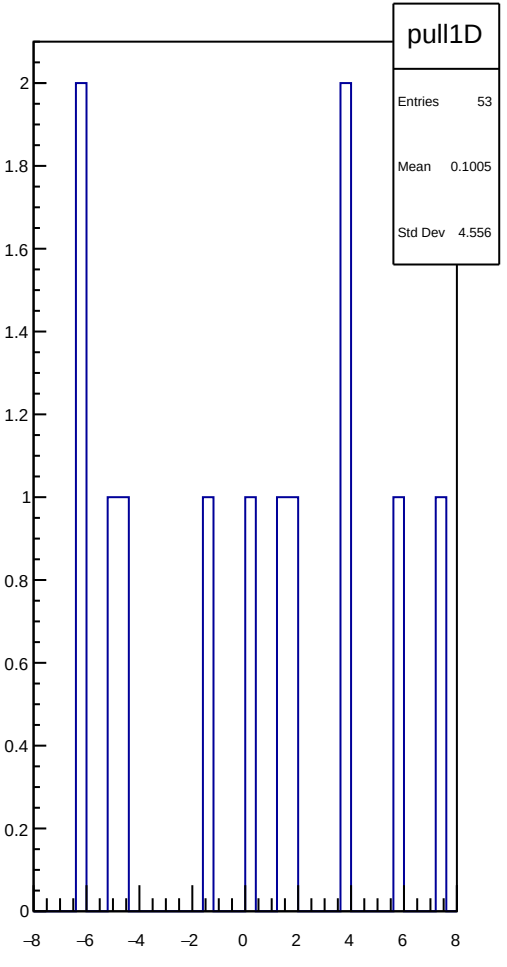

yield_bpm1i02WS_rms vs run
χ² / ndf 6.546e+04 / 52
p0 180.5 ± 0.1842
600
500
400
300
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

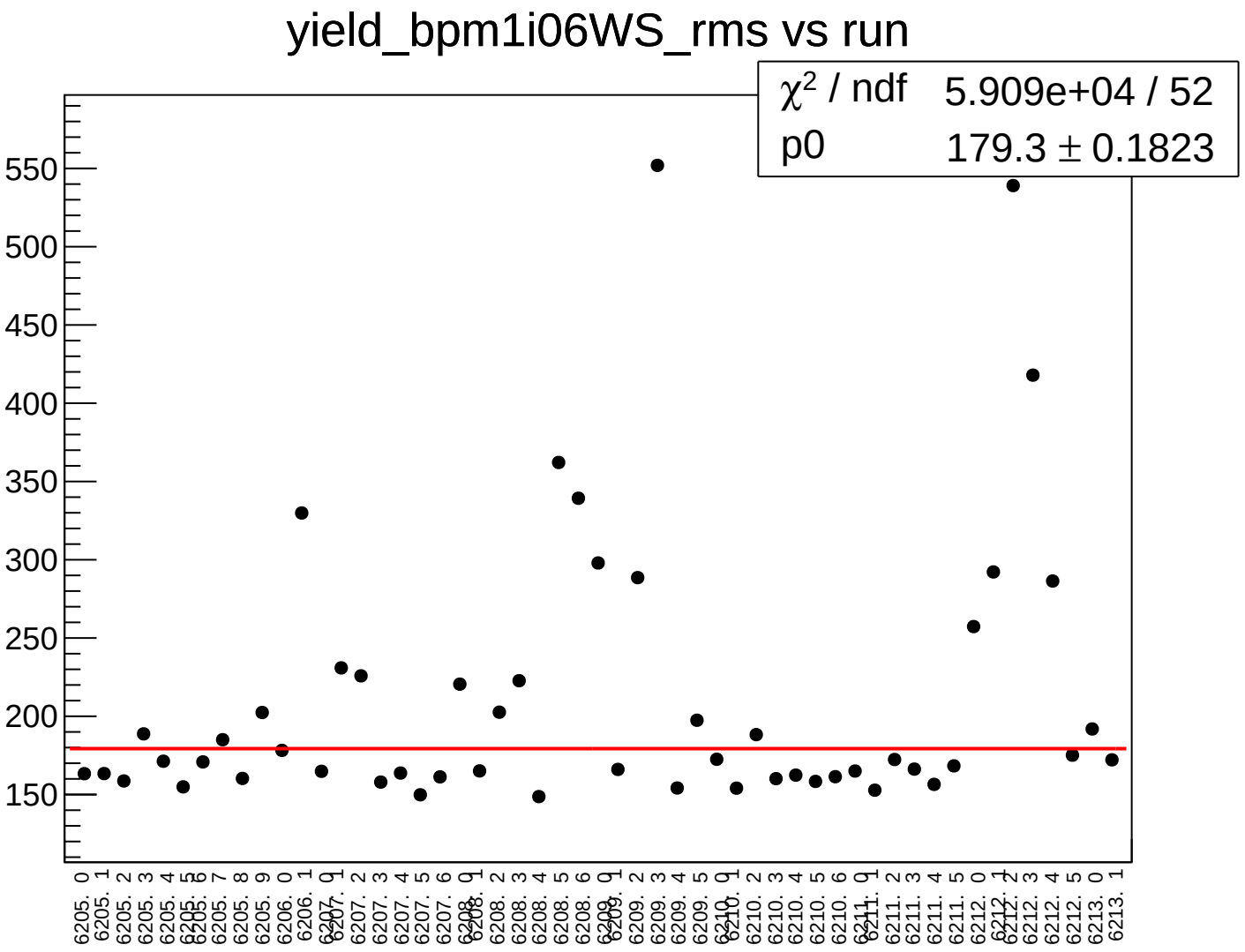

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 9057 / 52
p0 1.358e+05 ± 0.2089
135.88
135.86
135.84
135.82
135.8
135.78
pull
Entries 53
Mean 244
Std Dev 222.5
30
20
10
0
−10
−20
−30

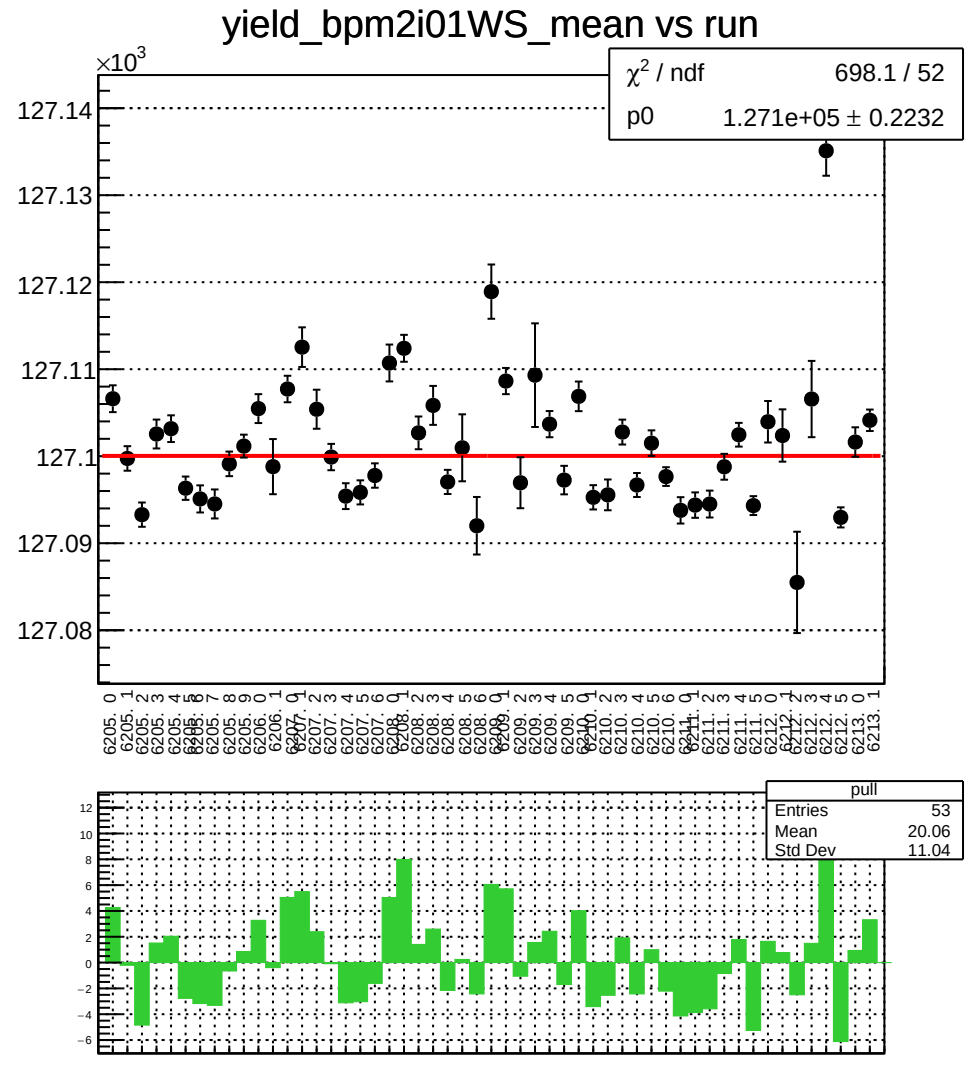

pull1D
Entries 53
Mean 0.5072
Std Dev 4.489
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

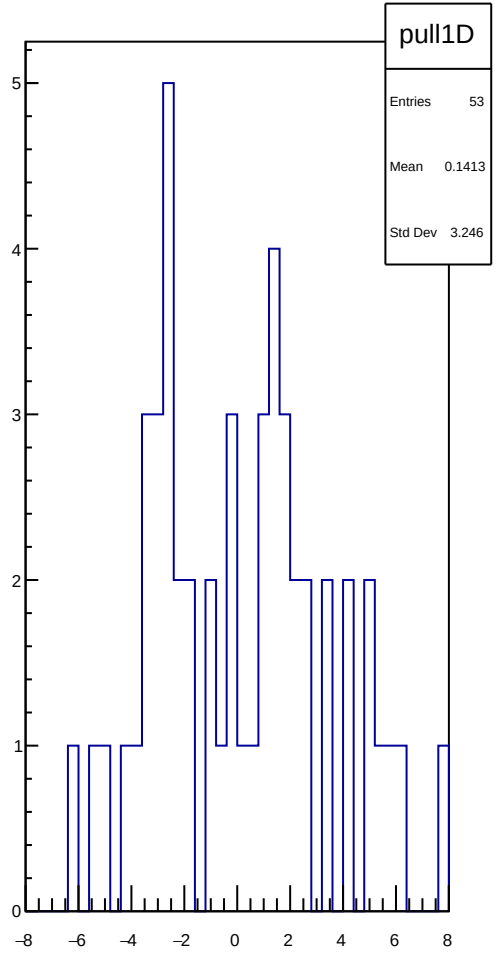

yield_bpm1i04WS_rms vs run
χ² / ndf 7.162e+04 / 52
p0 144.4 ± 0.1477
550
500
450
400
350
300
250
200
150
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

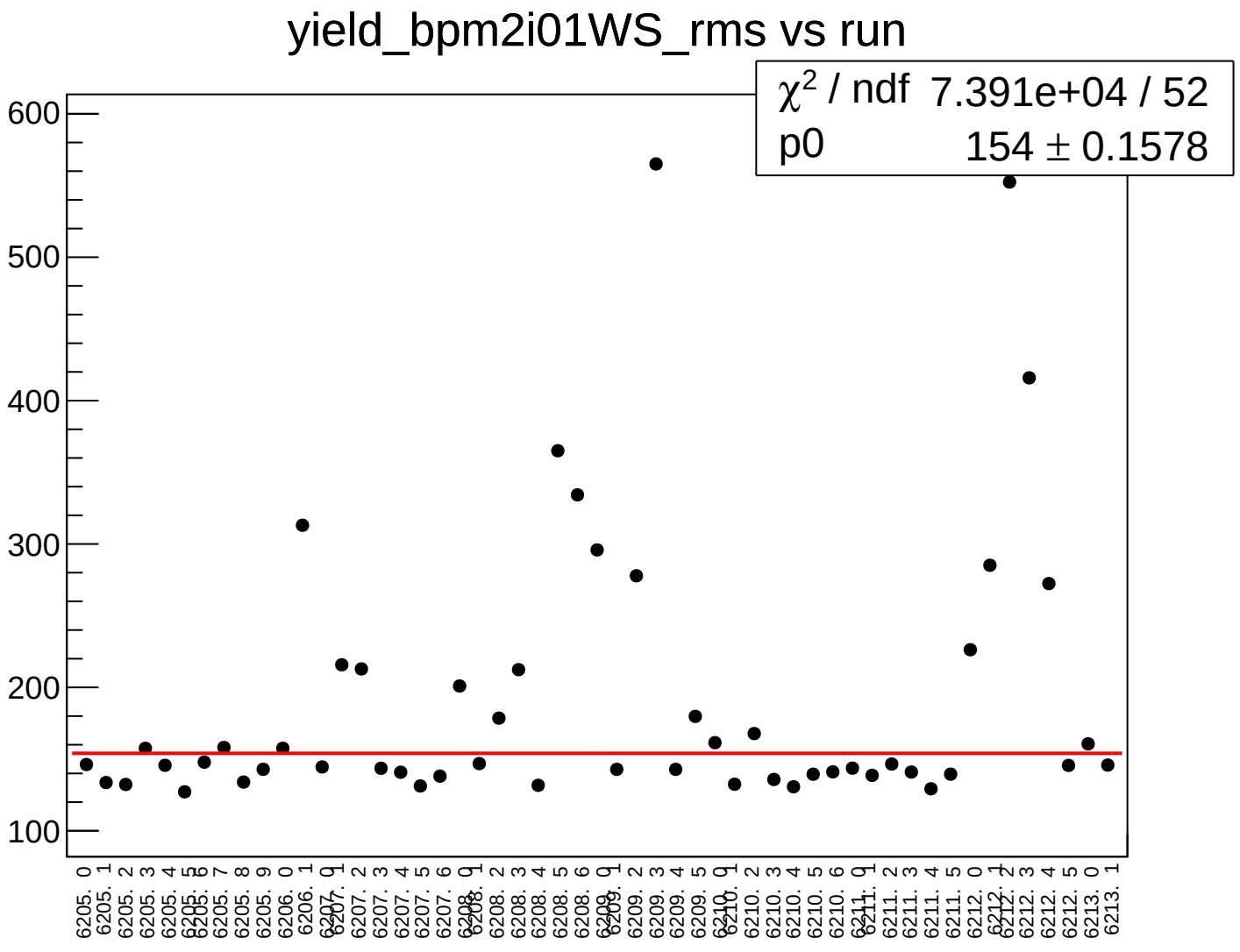

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.983e+04 / 52
p0 1.464e+05 ± 0.2579
146.55
146.5
146.45
146.4
146.35
146.3
146.25
pull
Entries 53
Mean 355.8
Std Dev 323.4
80
60
40
20
0
−20
−40
−60

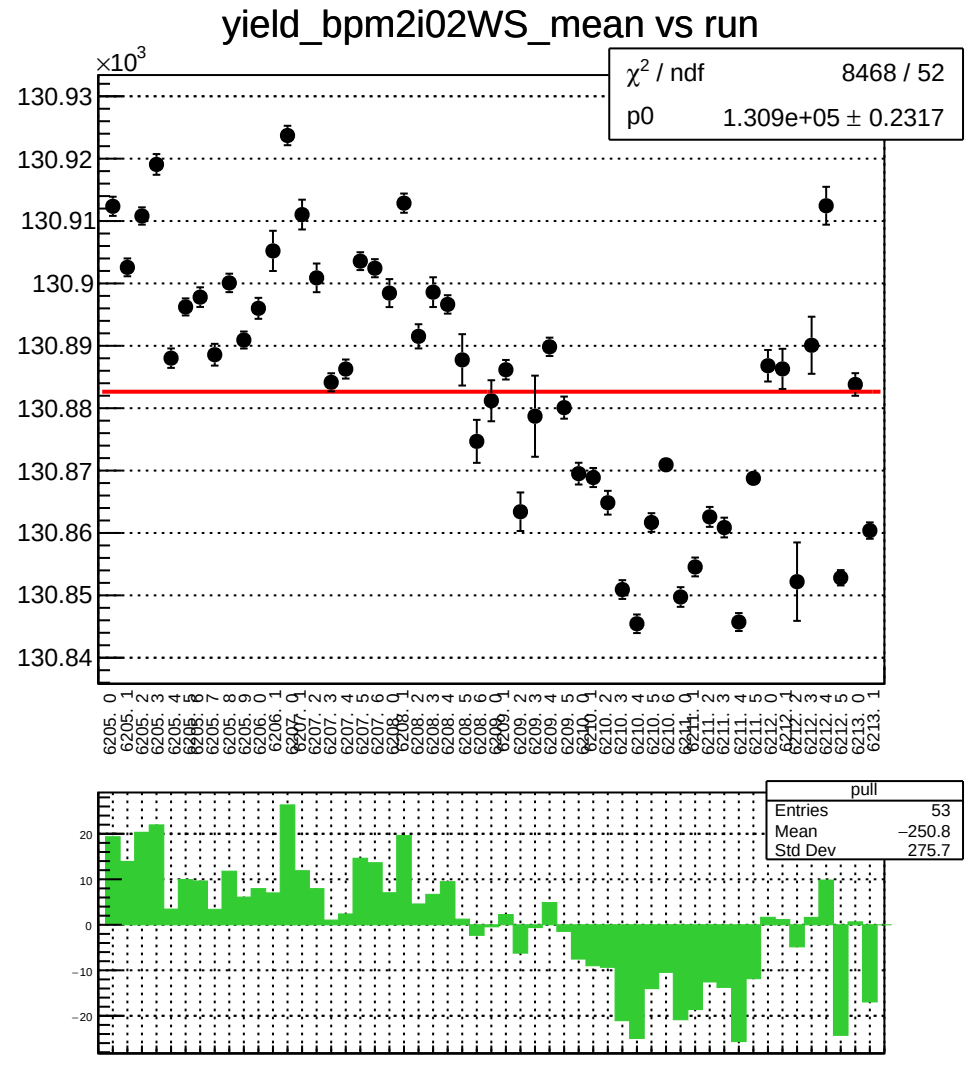

pull1D
Entries 53
Mean 0.1005
Std Dev 4.556
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

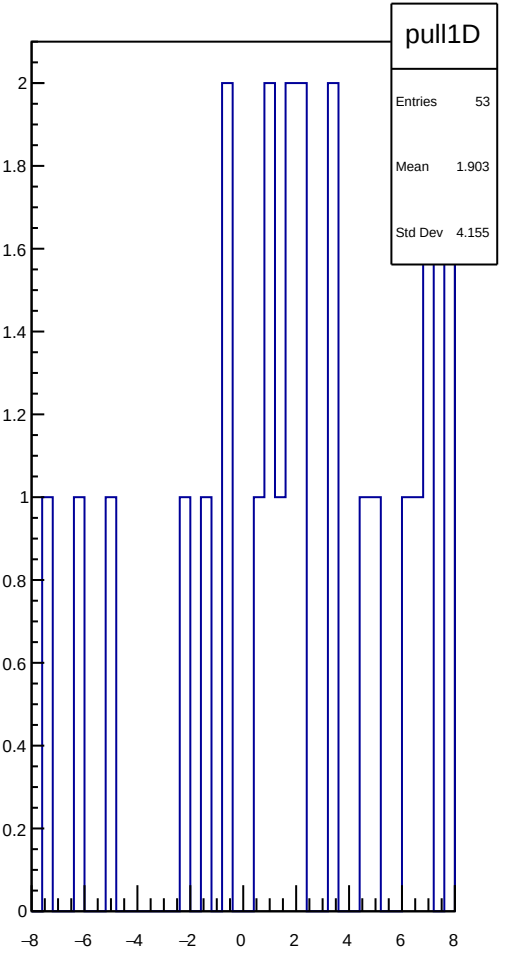

yield_bpm1i06WS_rms vs run
χ² / ndf 5.909e+04 / 52
p0 179.3 ± 0.1823
550
500
450
400
350
300
250
200
150
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

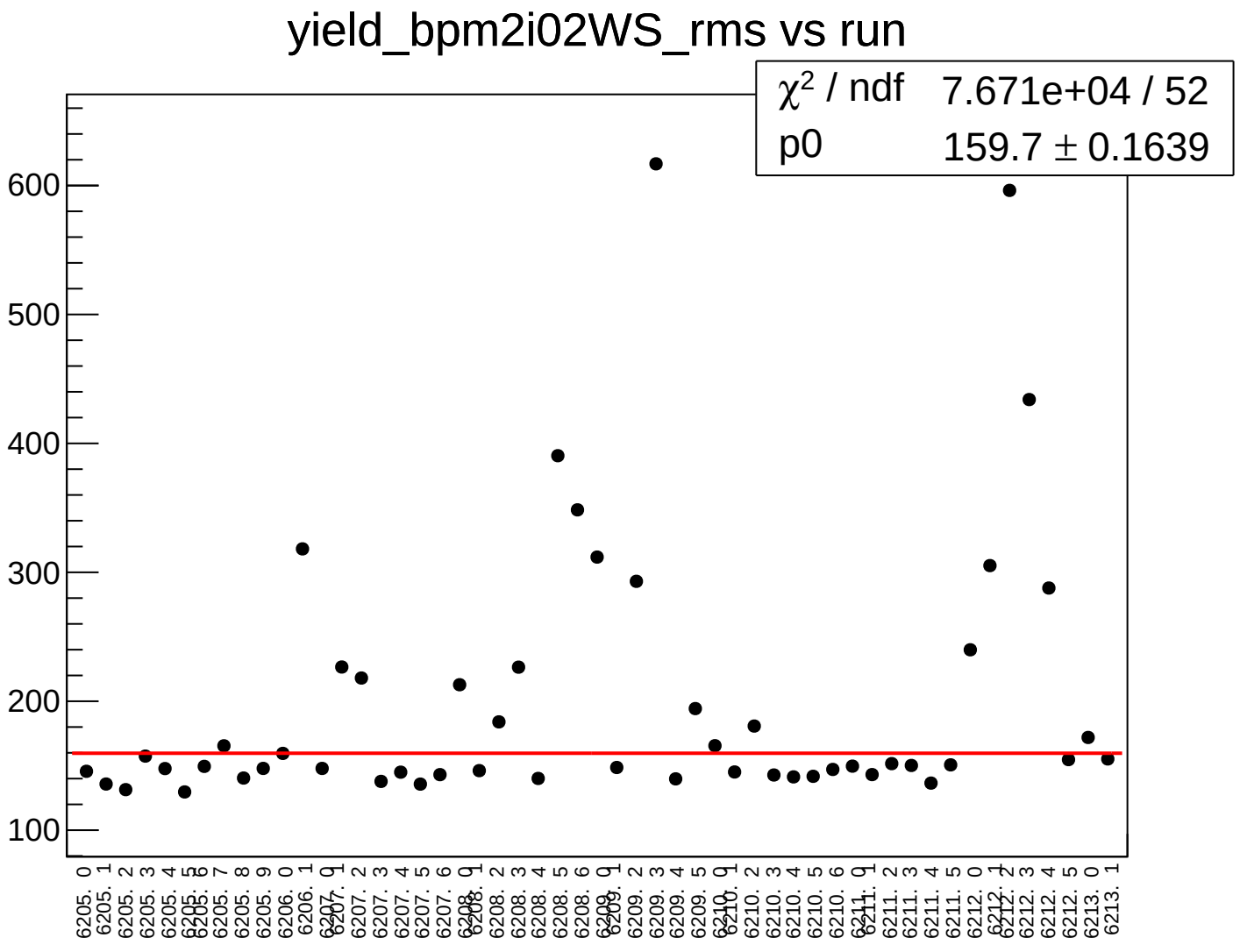

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 698.1 / 52
p0 1.271e+05 ± 0.2232
127.14
127.13
127.12
127.11
127.1
127.09
127.08
pull
Entries 53
Mean 20.06
Std Dev 11.04

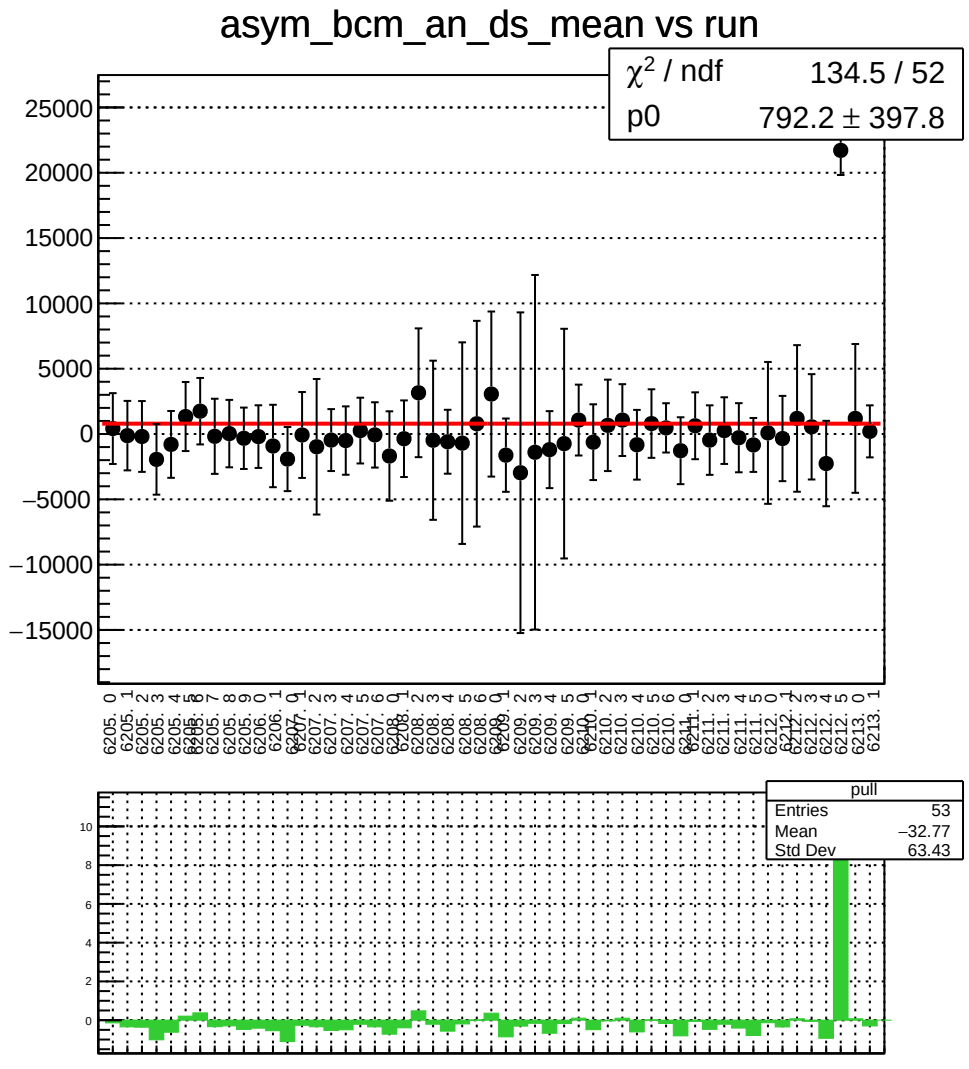

pull1D
Entries 53
Mean 0.1413
Std Dev 3.246

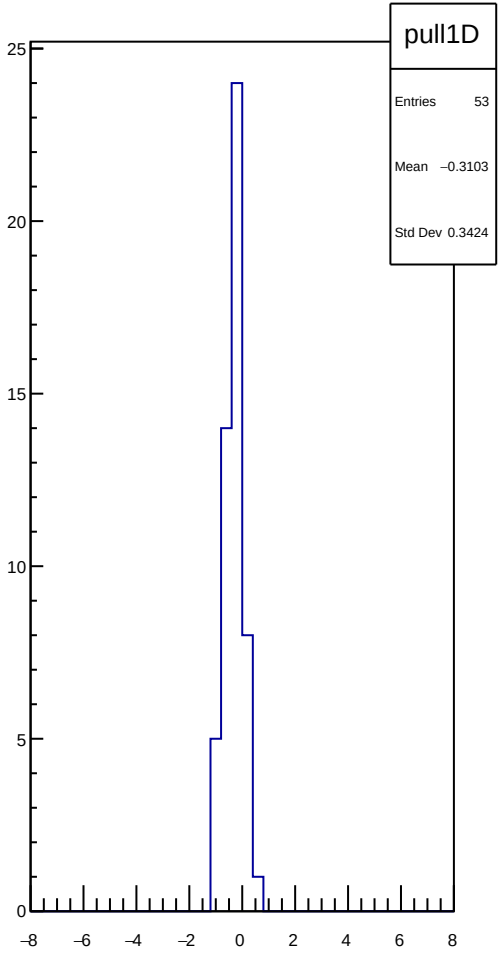

yield_bpm2i01WS_rms vs run
χ² / ndf 7.391e+04 / 52
p0 154 ± 0.1578
600
500
400
300
200
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

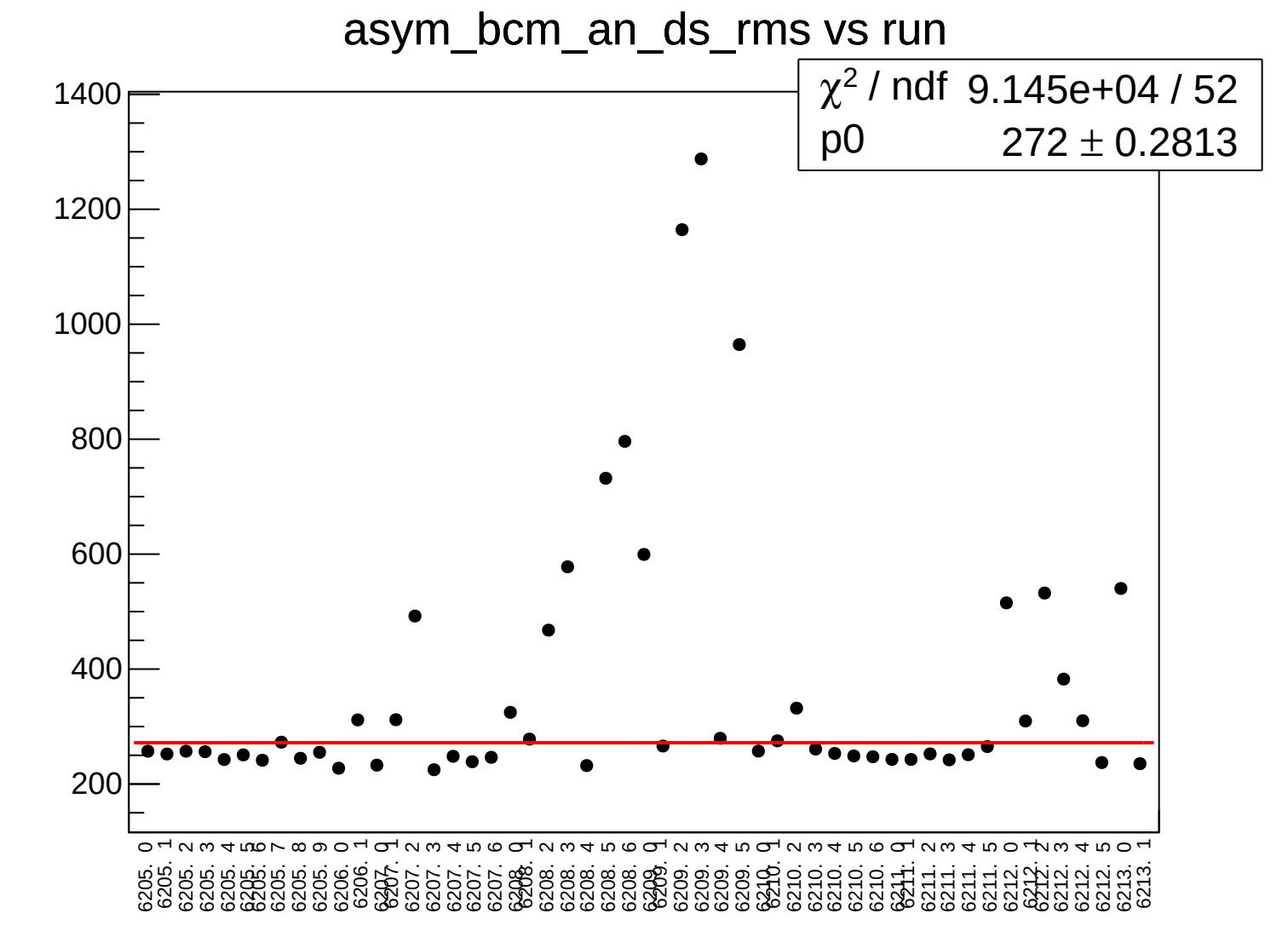

yield_bpm2i02WS_mean vs run
×10^3
130.93
130.92
130.91
130.9
130.89
130.88
130.87
130.86
130.85
130.84
χ² / ndf 8468 / 52
p0 1.309e+05 ± 0.2317
pull
Entries 53
Mean −250.8
Std Dev 275.7
20
10
0
−10
−20

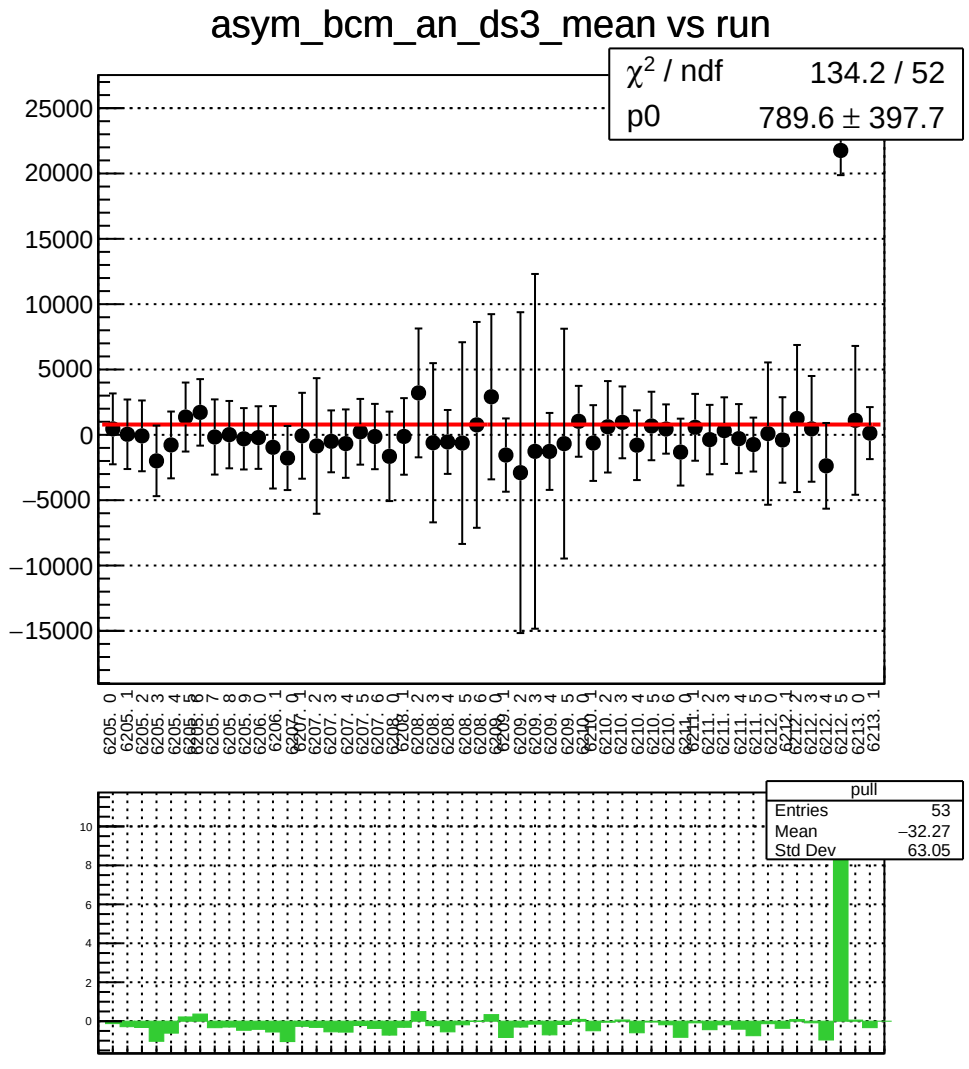

pull1D
Entries 53
Mean 1.903
Std Dev 4.155
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

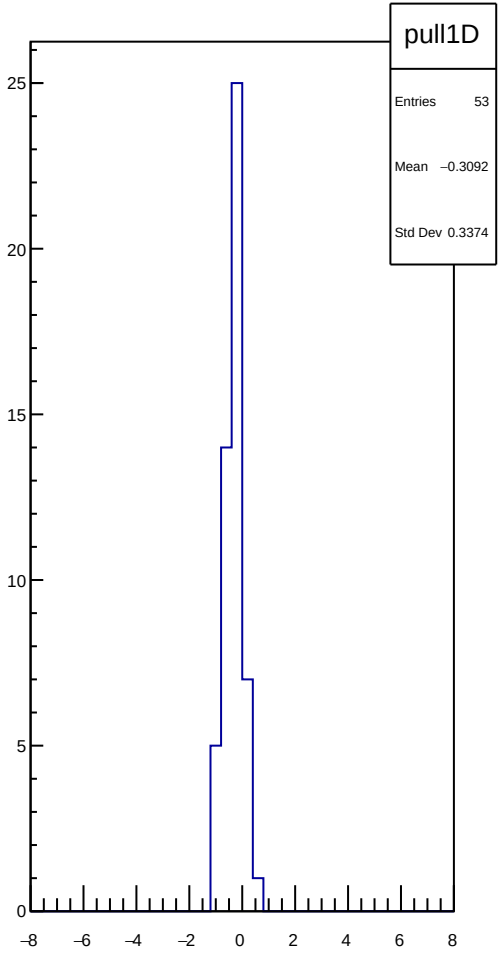

yield_bpm2i02WS_rms vs run
χ² / ndf 7.671e+04 / 52
p0 159.7 ± 0.1639
600
500
400
300
200
100
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

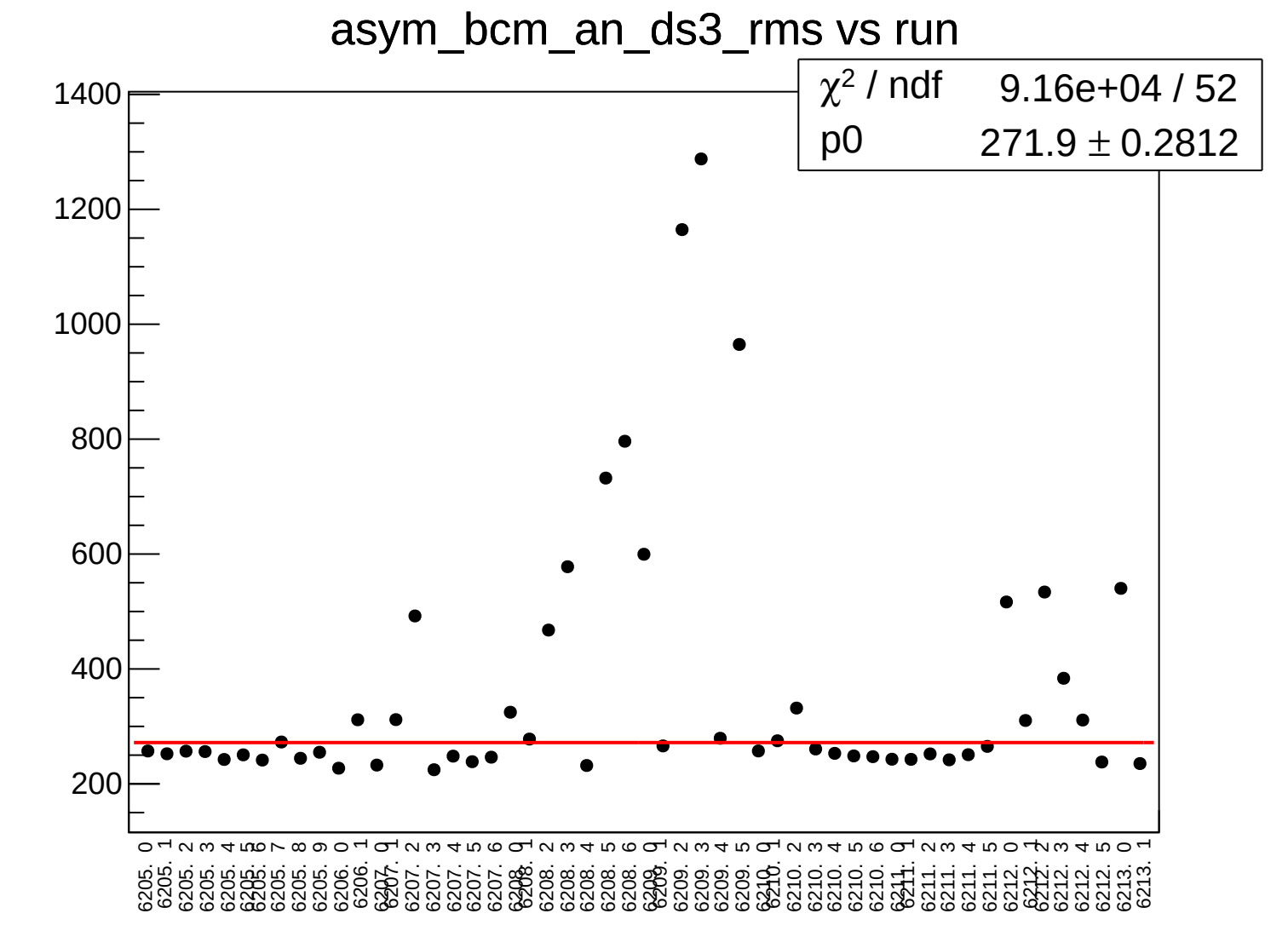

asym_bcm_an_ds_mean vs run
χ² / ndf 134.5 / 52
p0 792.2 ± 397.8
pull
Entries 53
Mean −32.77
Std Dev 63.43

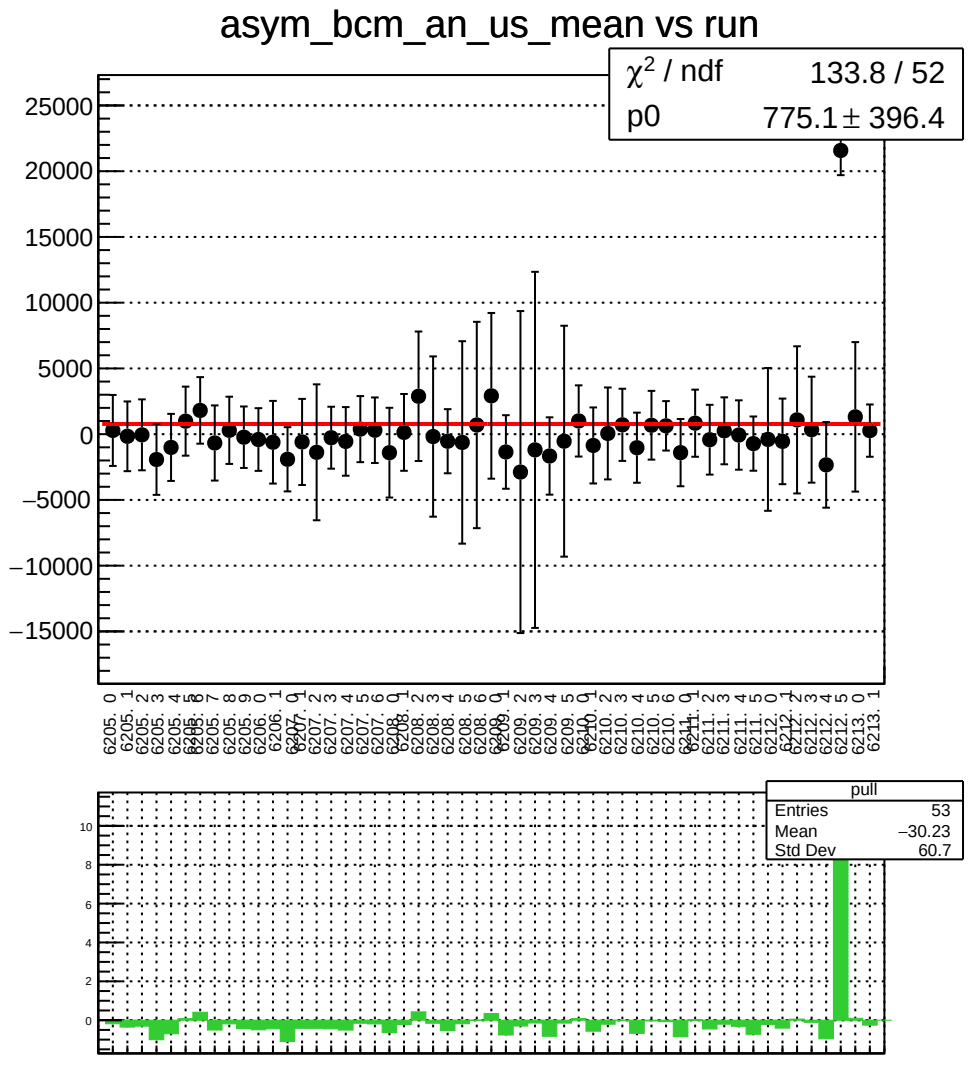

pull1D
Entries 53
Mean −0.3103
Std Dev 0.3424

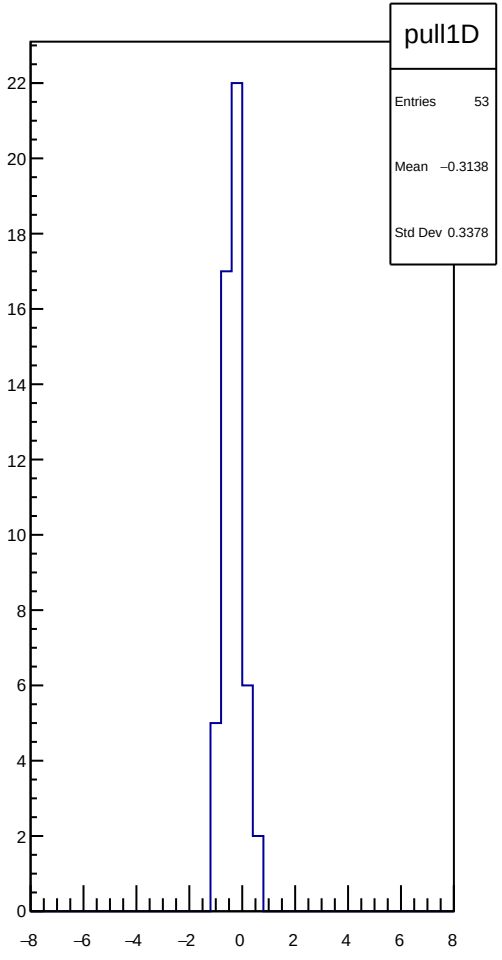

asym_bcm_an_ds_rms vs run
χ² / ndf 9.145e+04 / 52
p0 272 ± 0.2813
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

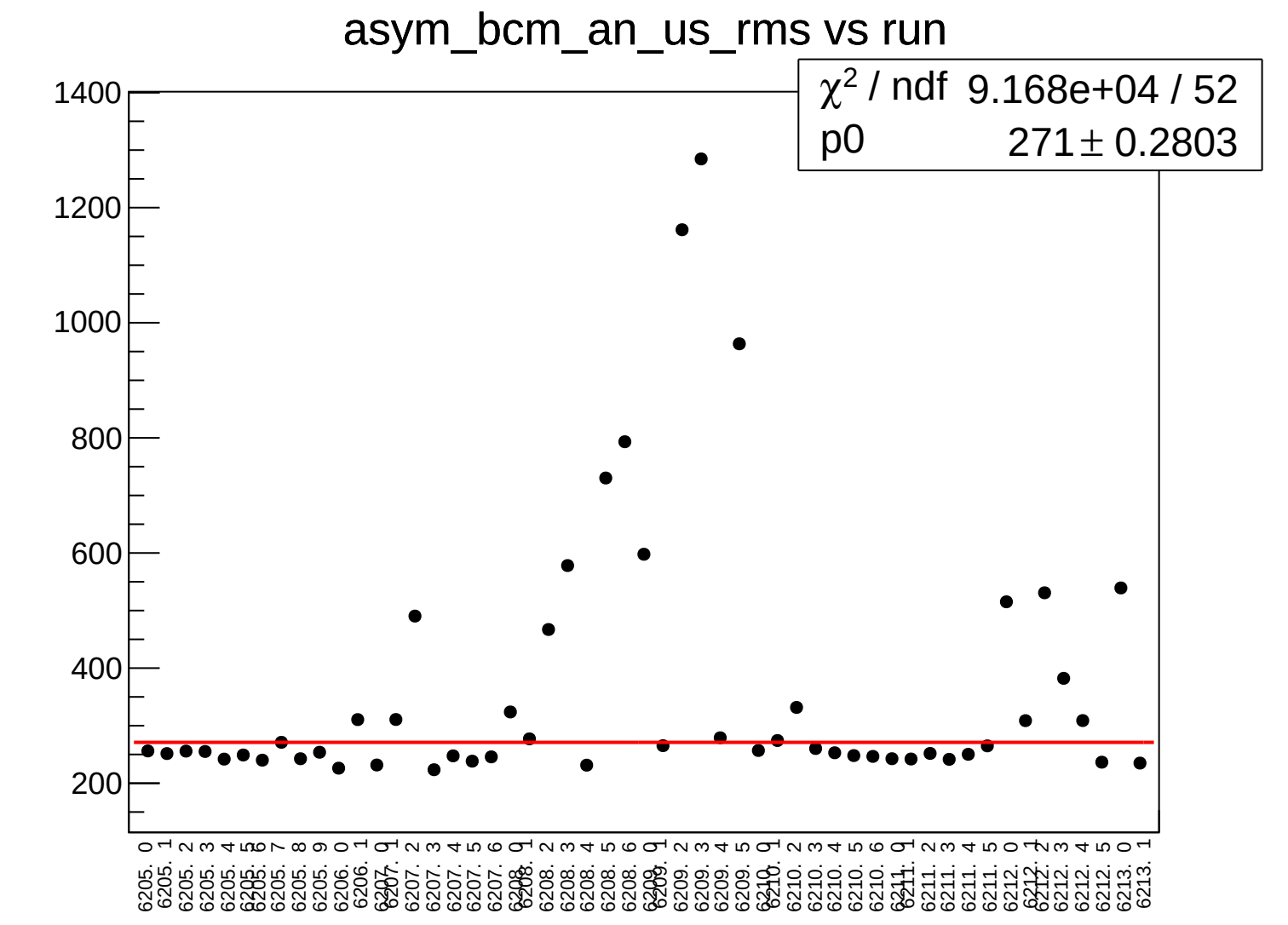

asym_bcm_an_ds3_mean vs run
χ² / ndf 134.2 / 52
p0 789.6 ± 397.7
pull
Entries 53
Mean −32.27
Std Dev 63.05

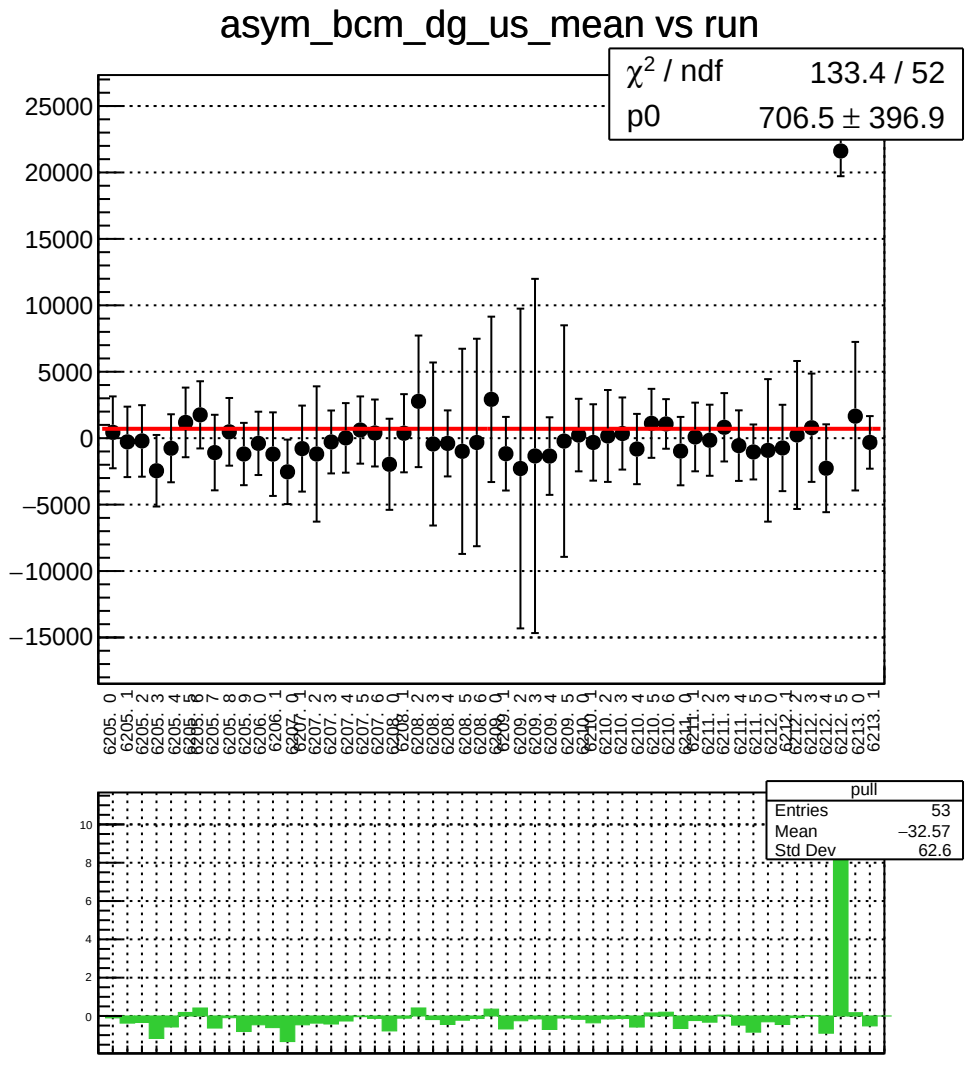

pull1D
Entries 53
Mean −0.3092
Std Dev 0.3374

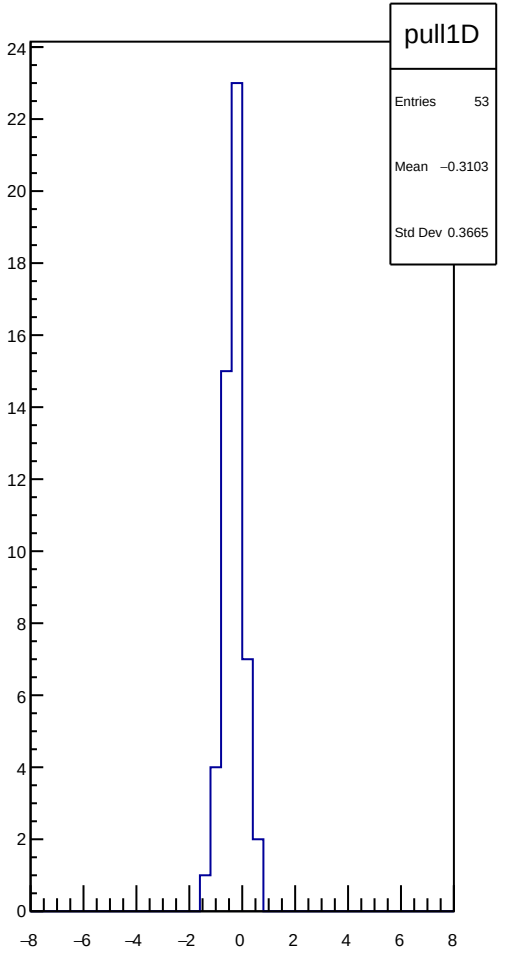

asym_bcm_an_ds3_rms vs run
χ² / ndf 9.16e+04 / 52
p0 271.9 ± 0.2812
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

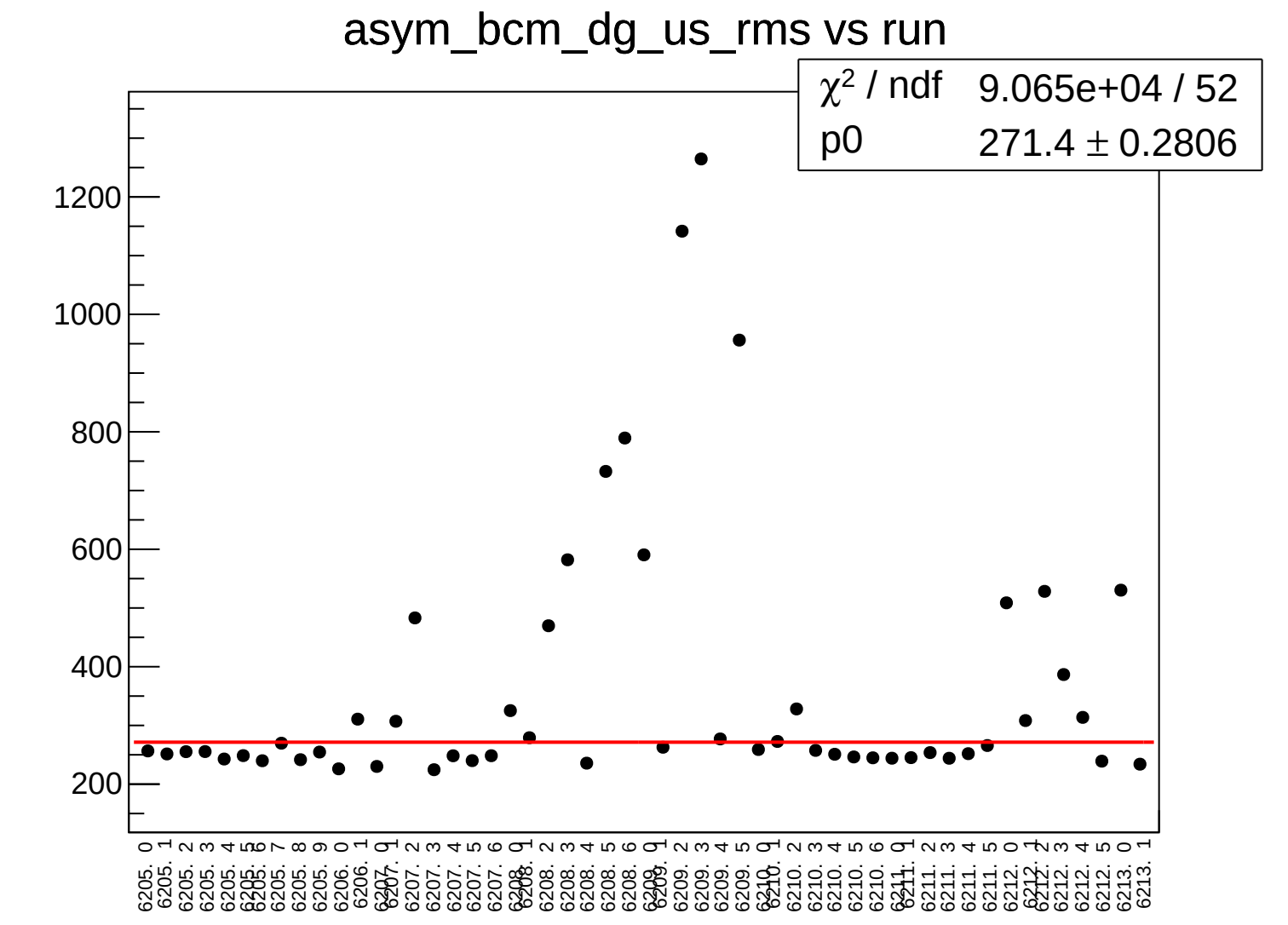

asym_bcm_an_us_mean vs run
χ² / ndf 133.8 / 52
p0 775.1 ± 396.4
pull
Entries 53
Mean −30.23
Std Dev 60.7

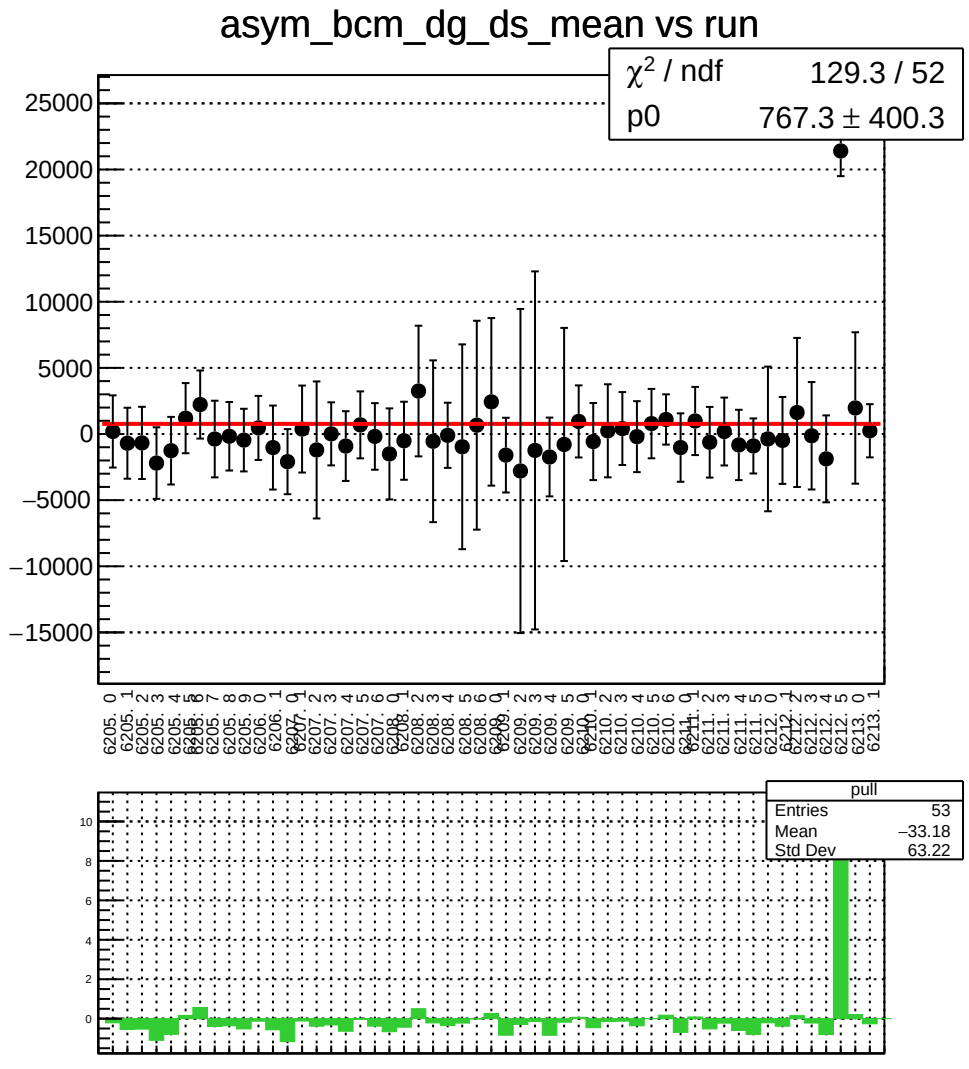

pull1D
Entries 53
Mean −0.3138
Std Dev 0.3378

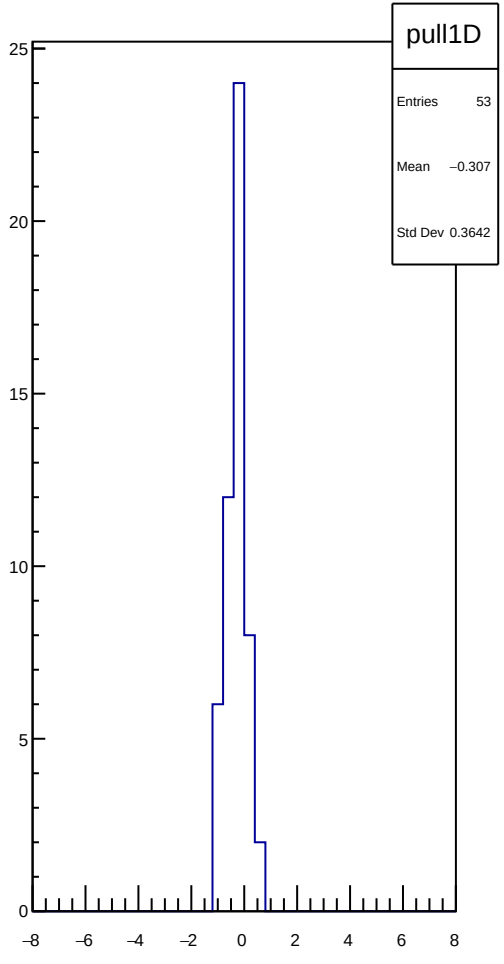

asym_bcm_an_us_rms vs run
χ² / ndf 9.168e+04 / 52
p0 271 ± 0.2803
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

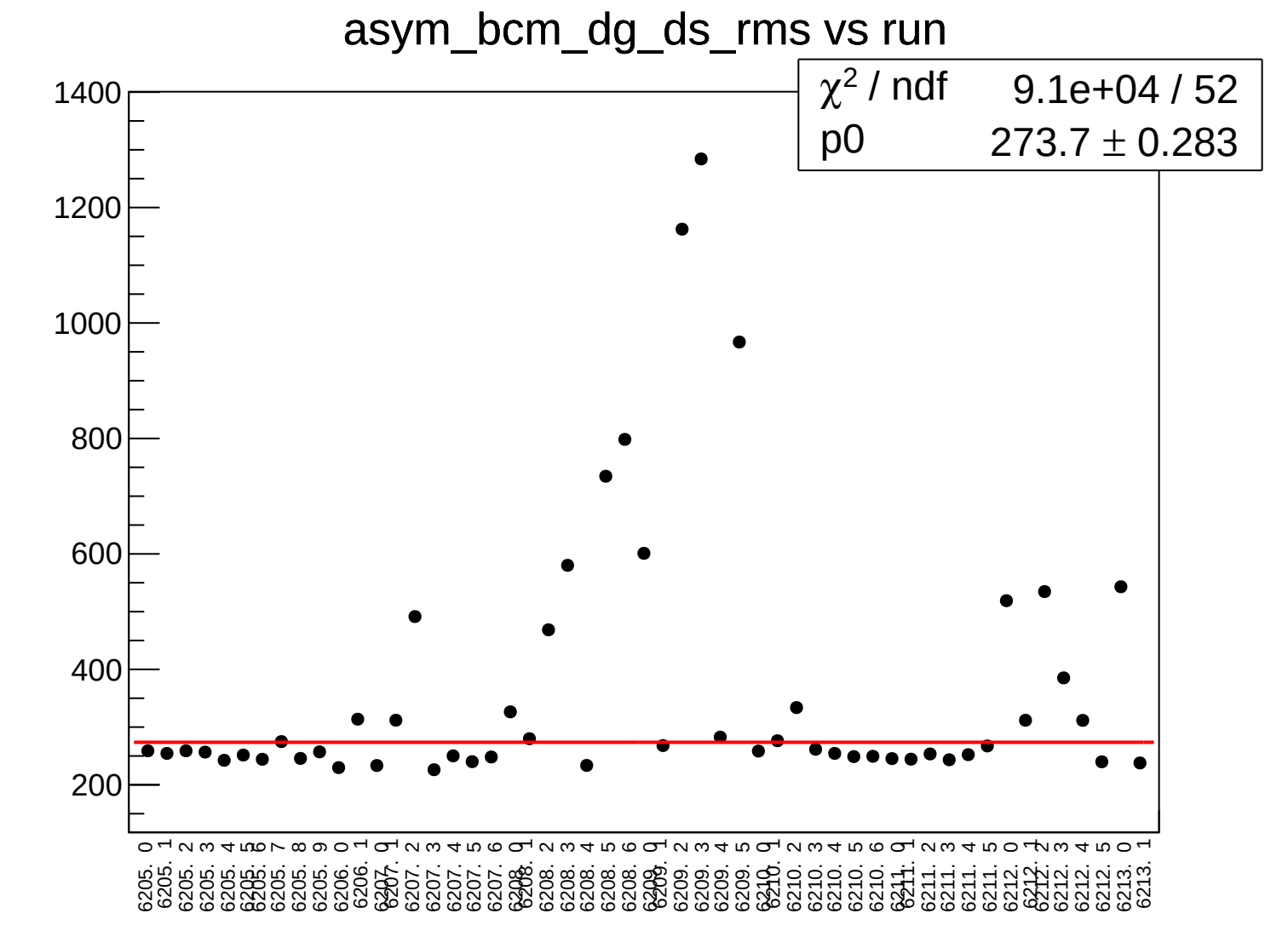

asym_bcm_dg_us_mean vs run
χ² / ndf 133.4 / 52
p0 706.5 ± 396.9
pull
Entries 53
Mean −32.57
Std Dev 62.6

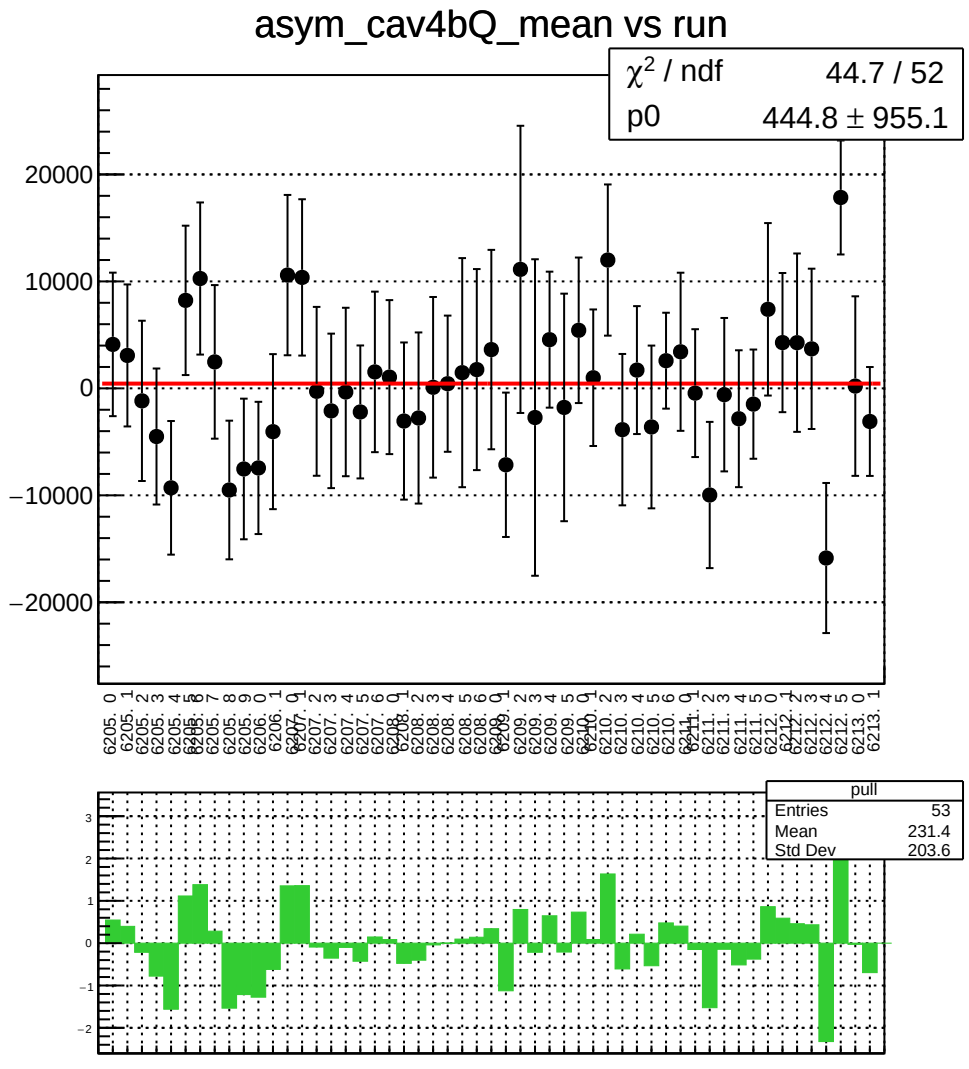

pull1D
Entries 53
Mean −0.3103
Std Dev 0.3665

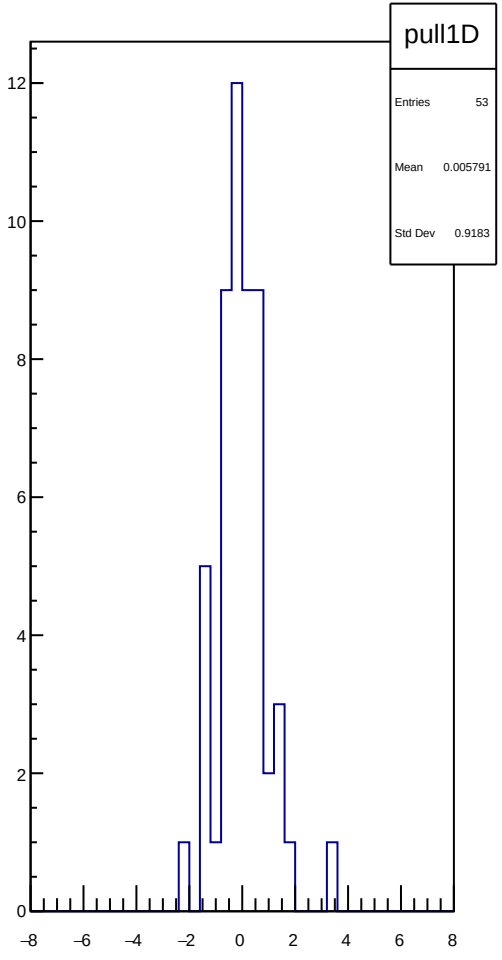

asym_bcm_dg_us_rms vs run
χ² / ndf 9.065e+04 / 52
p0 271.4 ± 0.2806
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

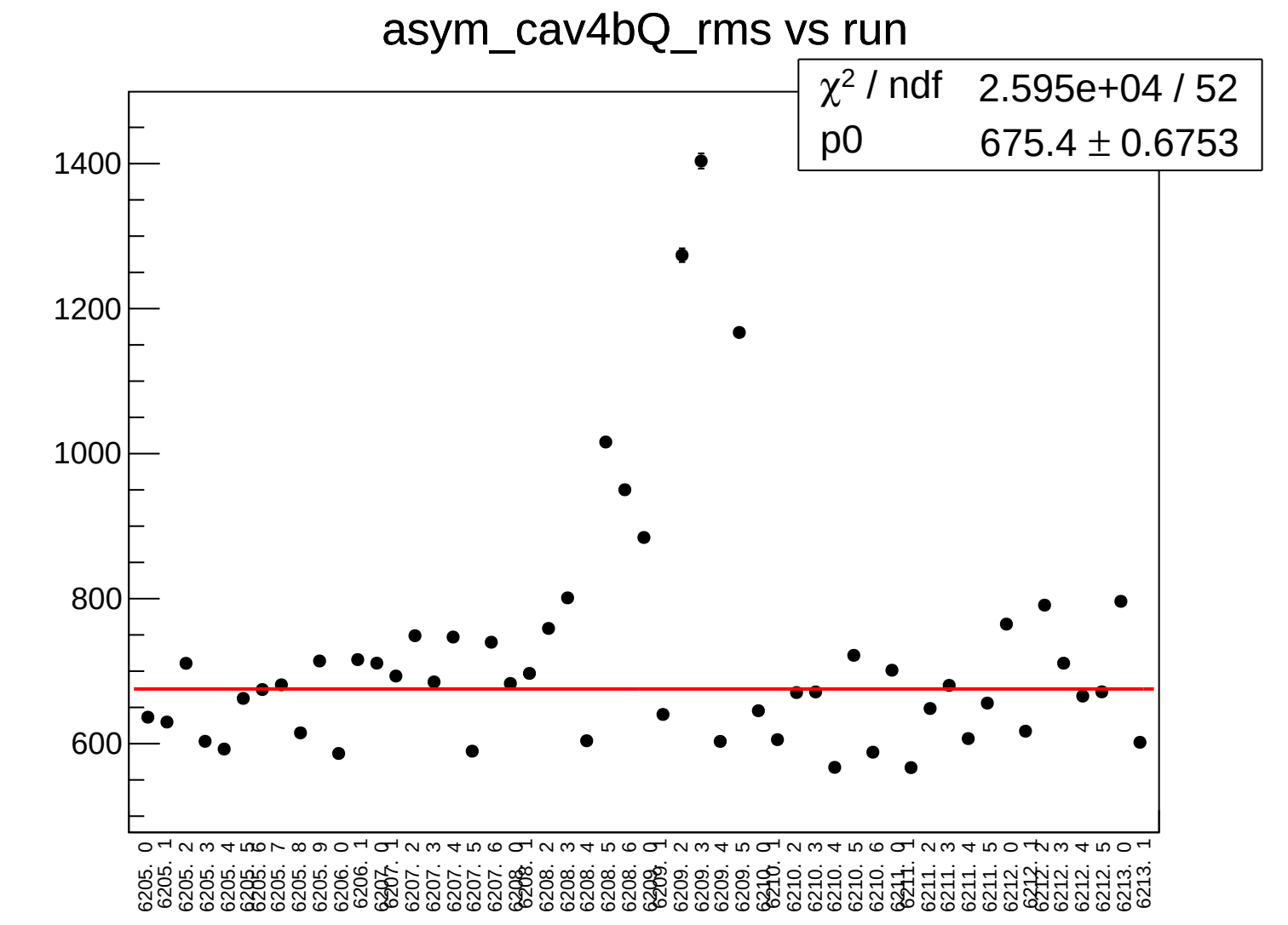

asym_bcm_dg_ds_mean vs run
χ² / ndf 129.3 / 52
p0 767.3 ± 400.3
pull
Entries 53
Mean −33.18
Std Dev 63.22

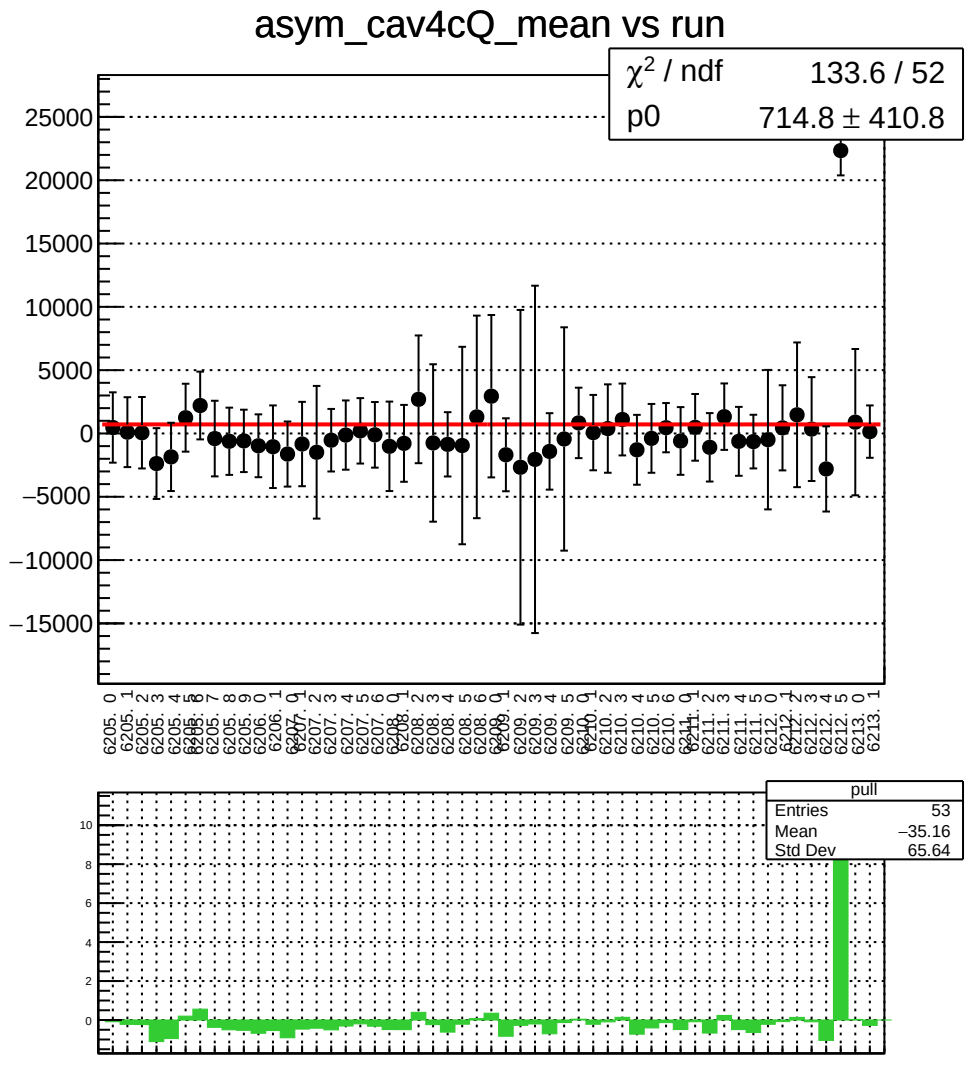

pull1D
Entries 53
Mean −0.307
Std Dev 0.3642

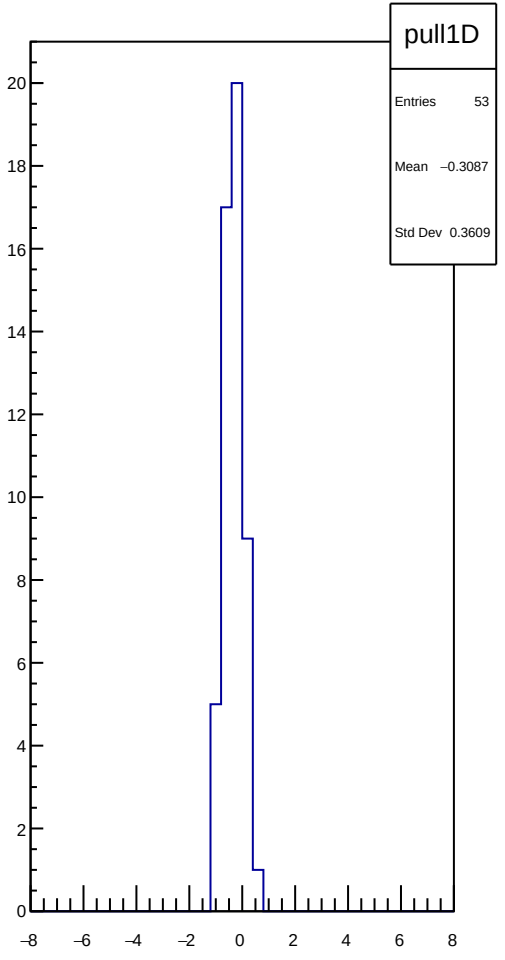

asym_bcm_dg_ds_rms vs run
χ² / ndf 9.1e+04 / 52
p0 273.7 ± 0.283
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

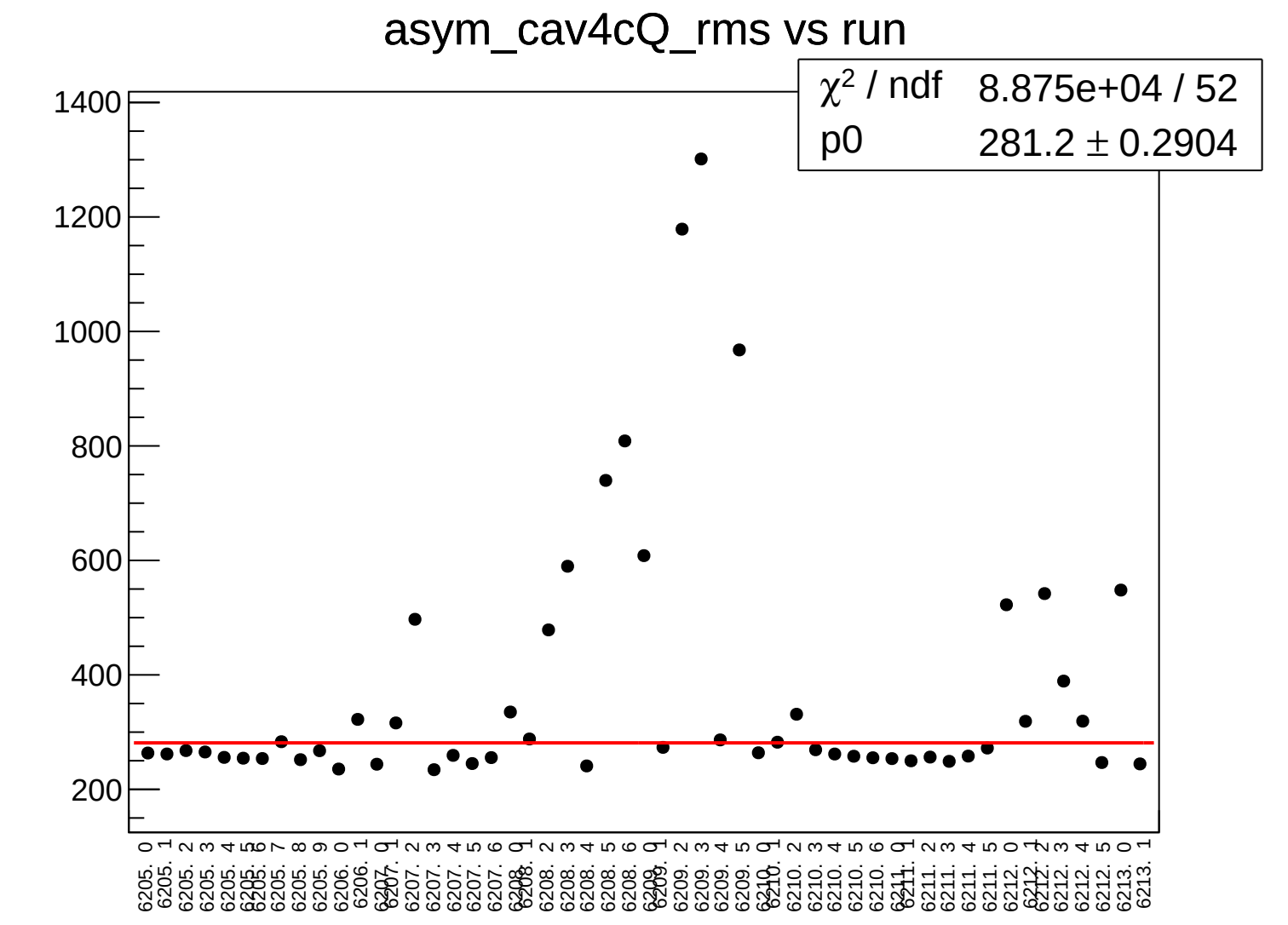

asym_cav4bQ_mean vs run
χ² / ndf 44.7 / 52
p0 444.8 ± 955.1
20000
10000
0
−10000
−20000
pull
Entries 53
Mean 231.4
Std Dev 203.6
3
2
1
0
−1
−2

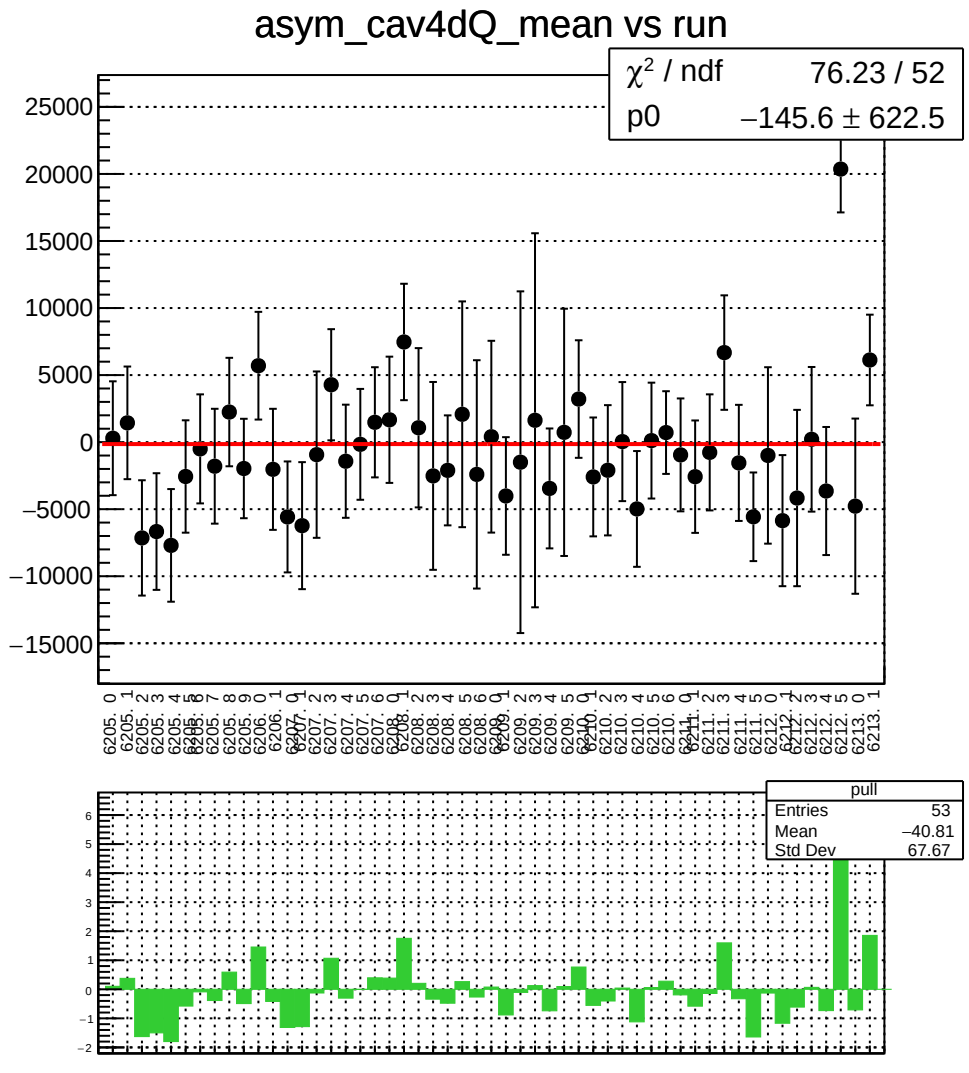

pull1D
Entries 53
Mean 0.005791
Std Dev 0.9183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

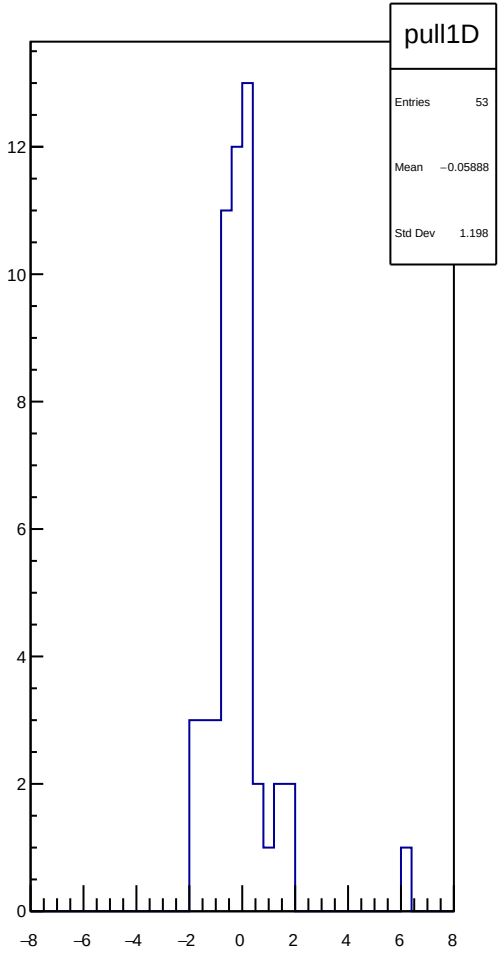

asym_cav4bQ_rms vs run
χ^2 / ndf 2.595e+04 / 52
p0 675.4 ± 0.6753
1400
1200
1000
800
600
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

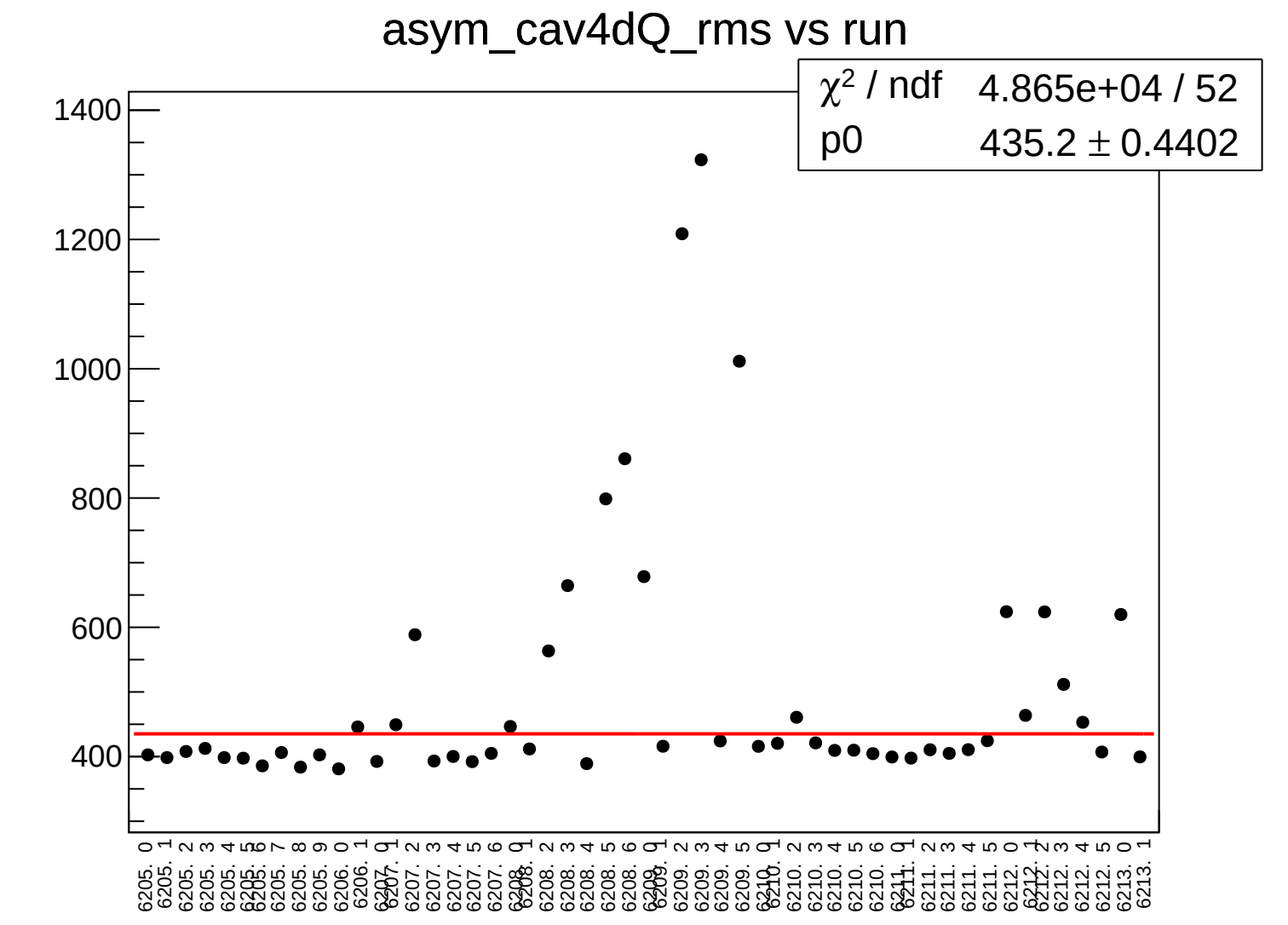

asym_cav4cQ_mean vs run
χ² / ndf 133.6 / 52
p0 714.8 ± 410.8
pull
Entries 53
Mean −35.16
Std Dev 65.64


pull1D
Entries 53
Mean −0.3087
Std Dev 0.3609


asym_cav4cQ_rms vs run
χ² / ndf 8.875e+04 / 52
p0 281.2 ± 0.2904
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_cav4dQ_mean vs run
χ² / ndf 76.23 / 52
p0 −145.6 ± 622.5
pull
Entries 53
Mean −40.81
Std Dev 67.67


pull1D
Entries 53
Mean −0.05888
Std Dev 1.198


asym_cav4dQ_rms vs run
χ² / ndf 4.865e+04 / 52
p0 435.2 ± 0.4402
1400
1200
1000
800
600
400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
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6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
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6211. 3
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6212. 0
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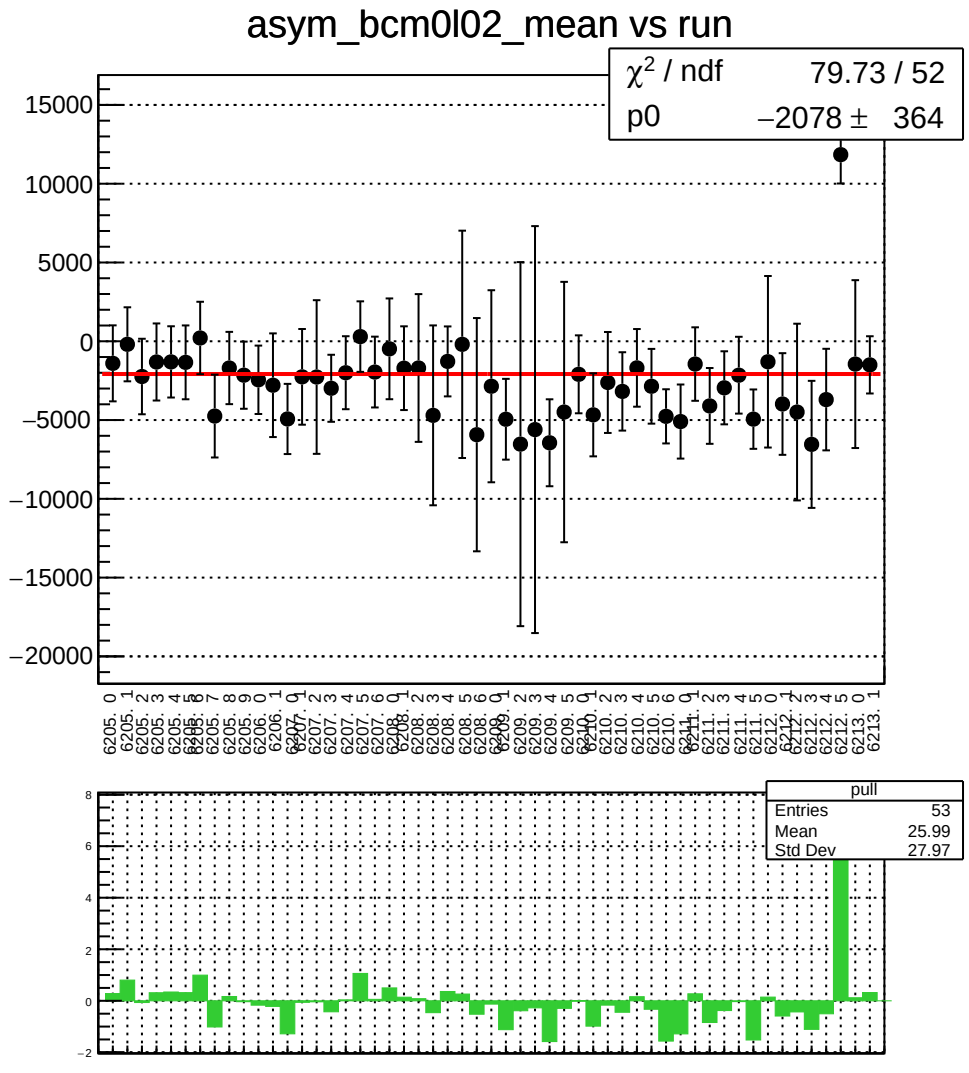
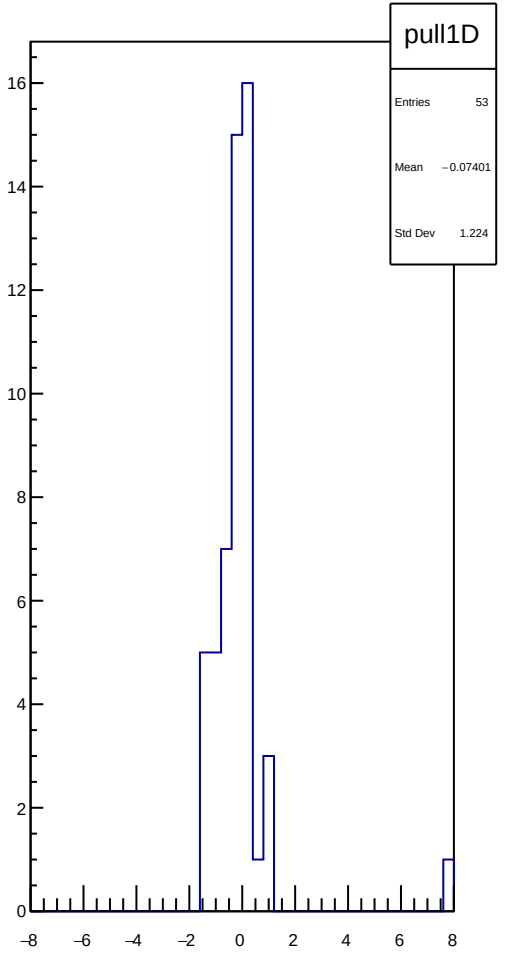
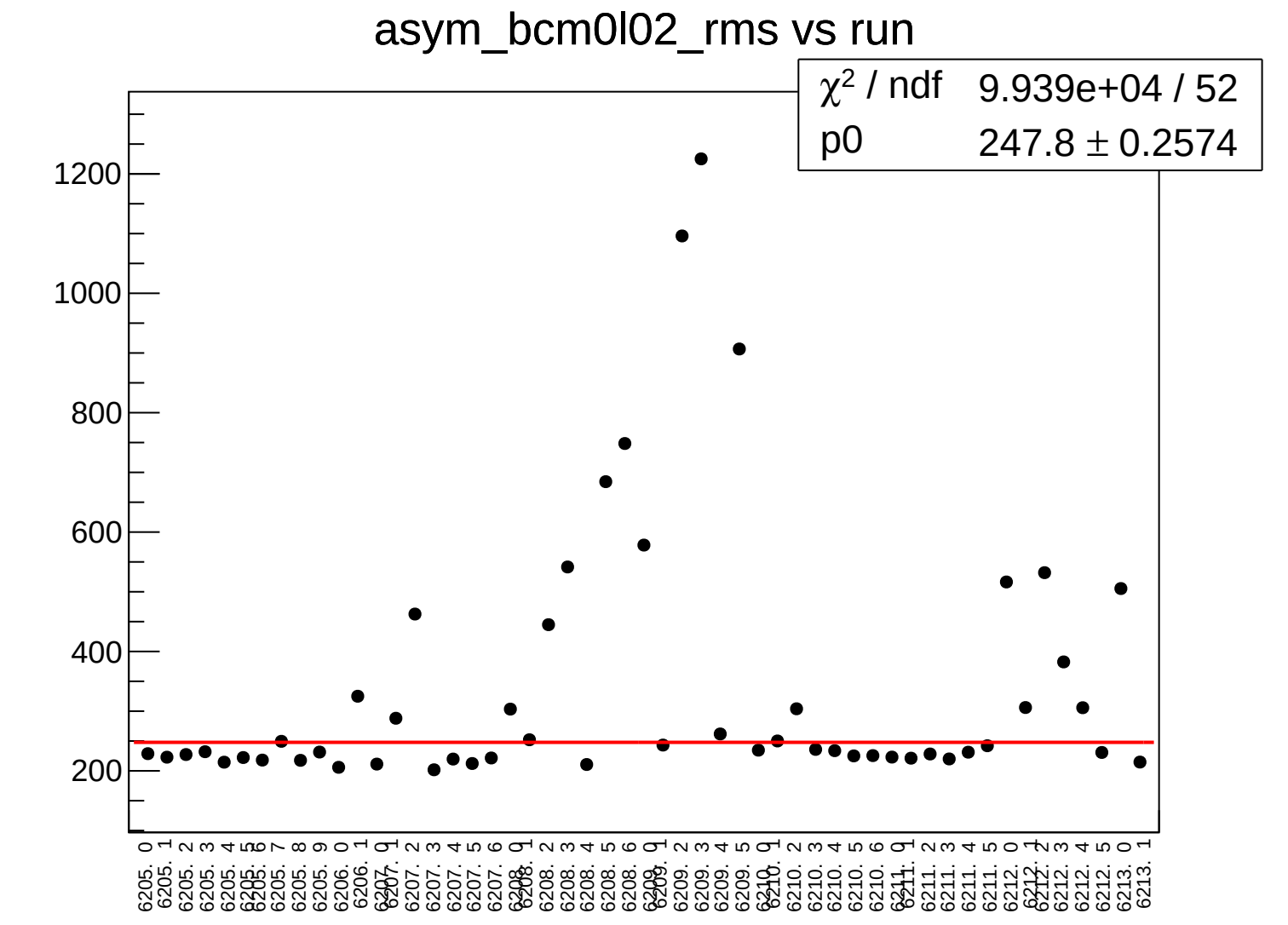
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bcm0l02_mean vs run
χ² / ndf 79.73 / 52
p0 −2078 ± 364
pull
Entries 53
Mean 25.99
Std Dev 27.97


pull1D
Entries 53
Mean −0.07401
Std Dev 1.224


asym_bcm0l02_rms vs run
χ² / ndf 9.939e+04 / 52
p0 247.8 ± 0.2574
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
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6211. 2
6211. 3
6211. 4
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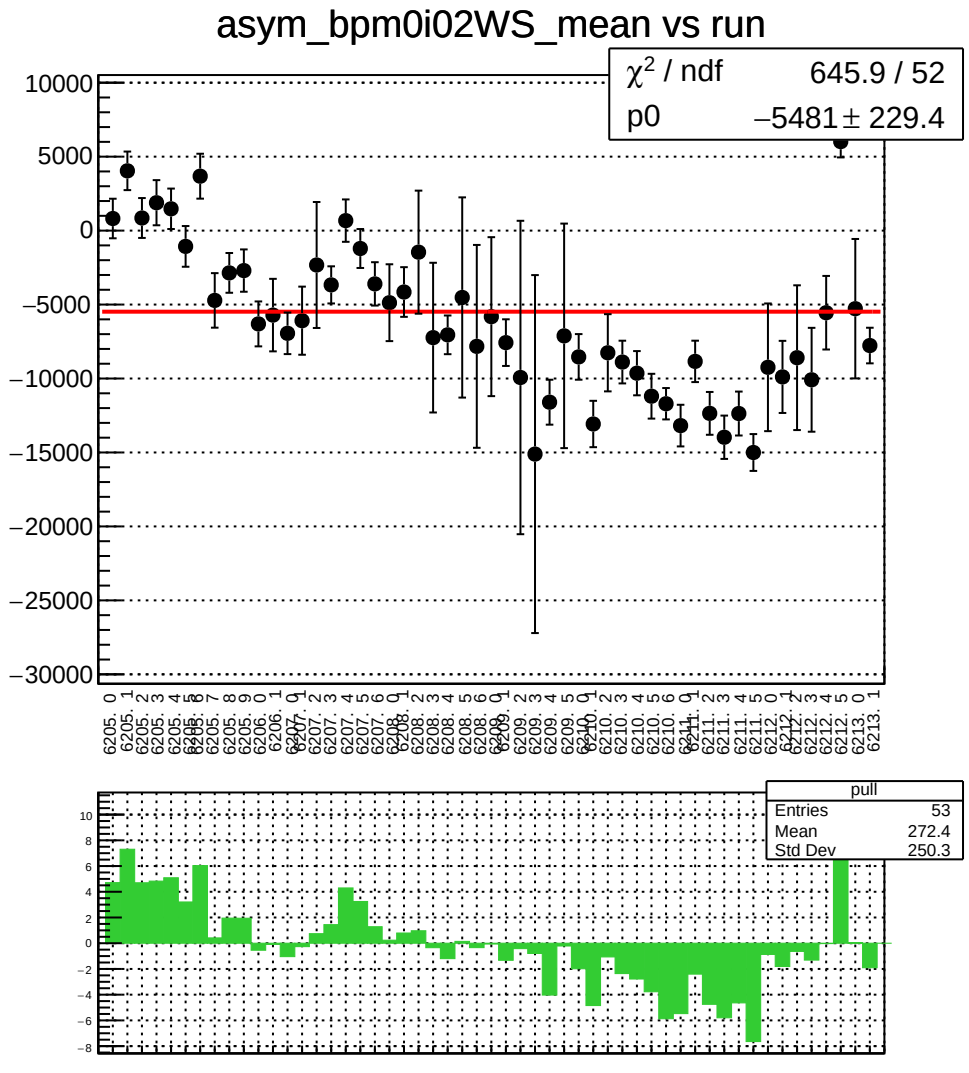
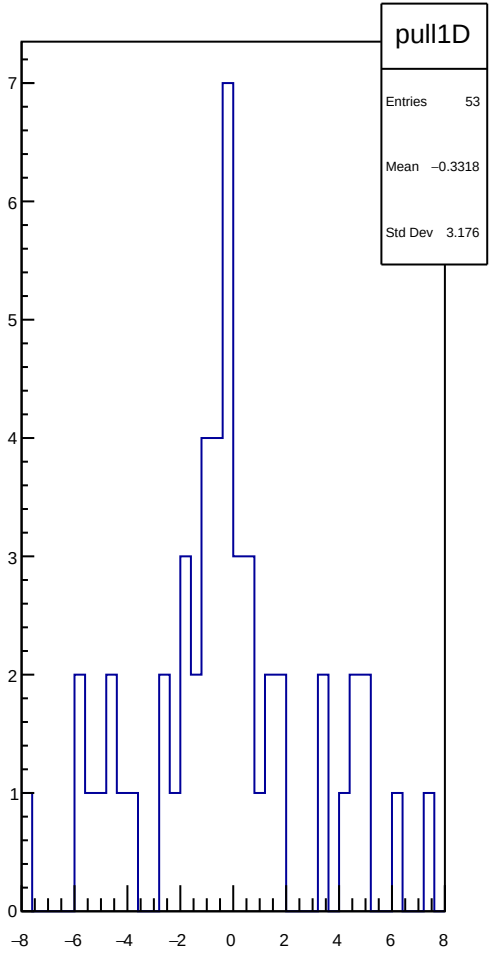
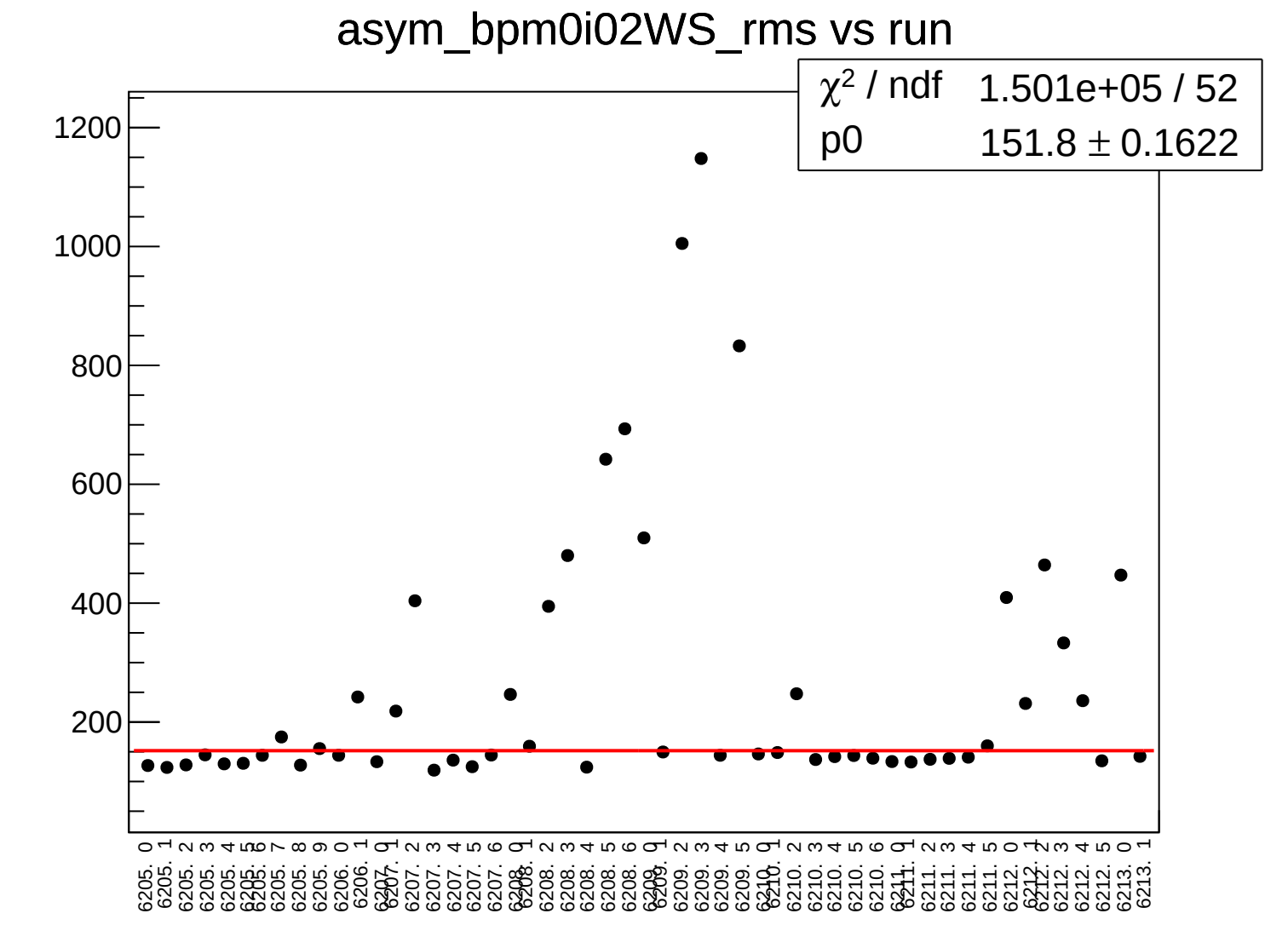
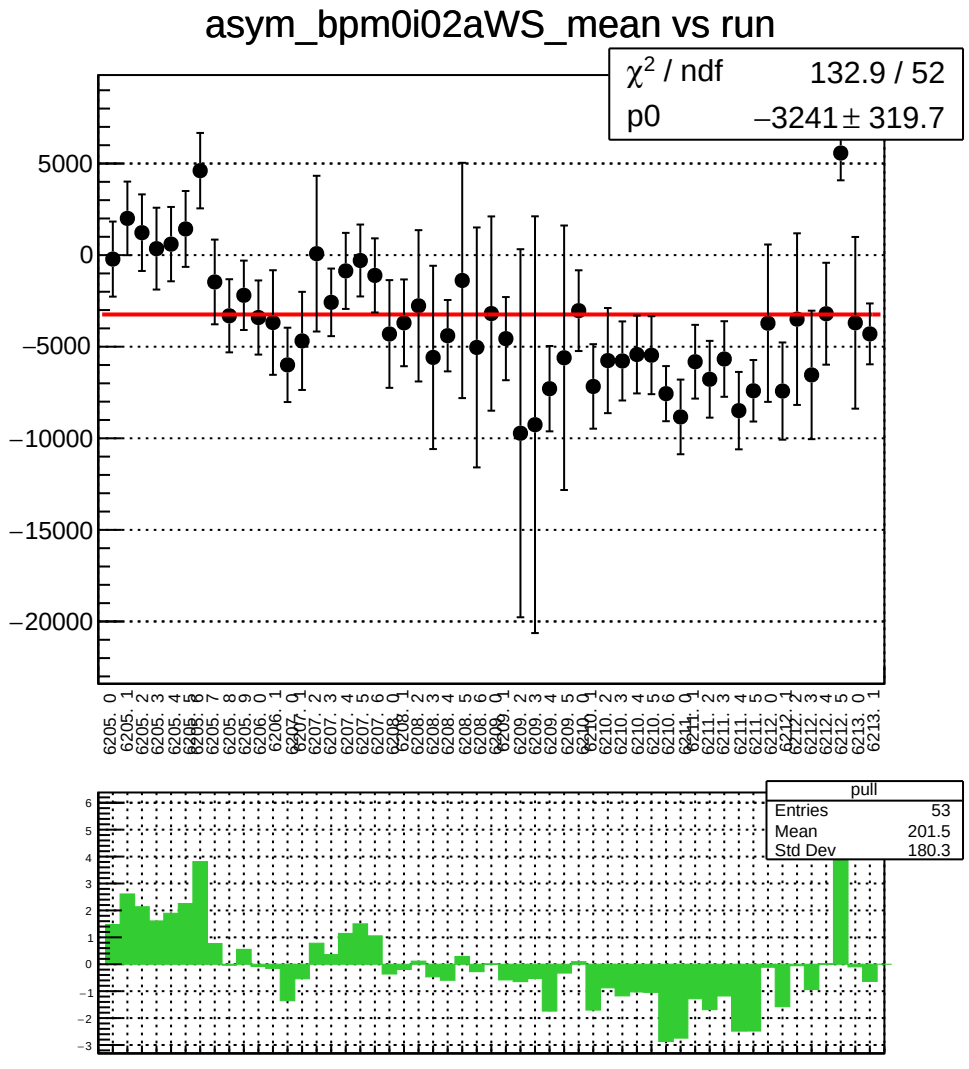
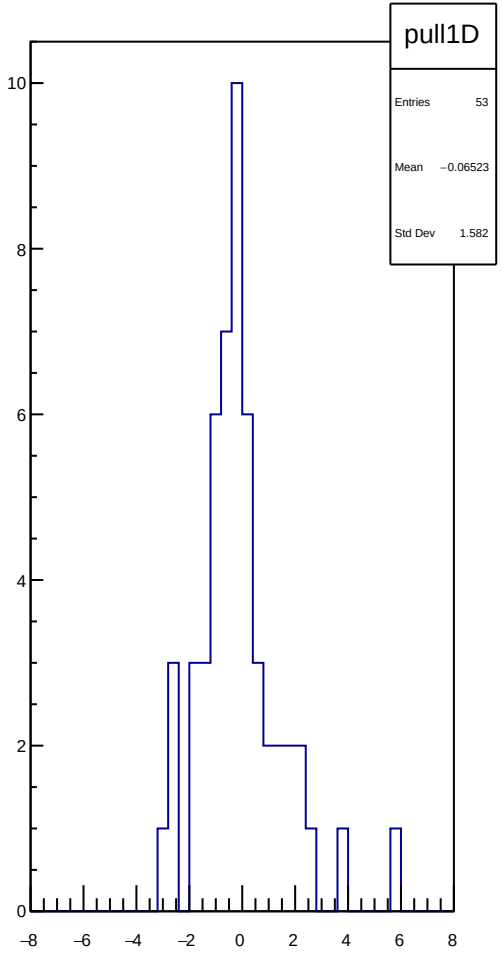
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

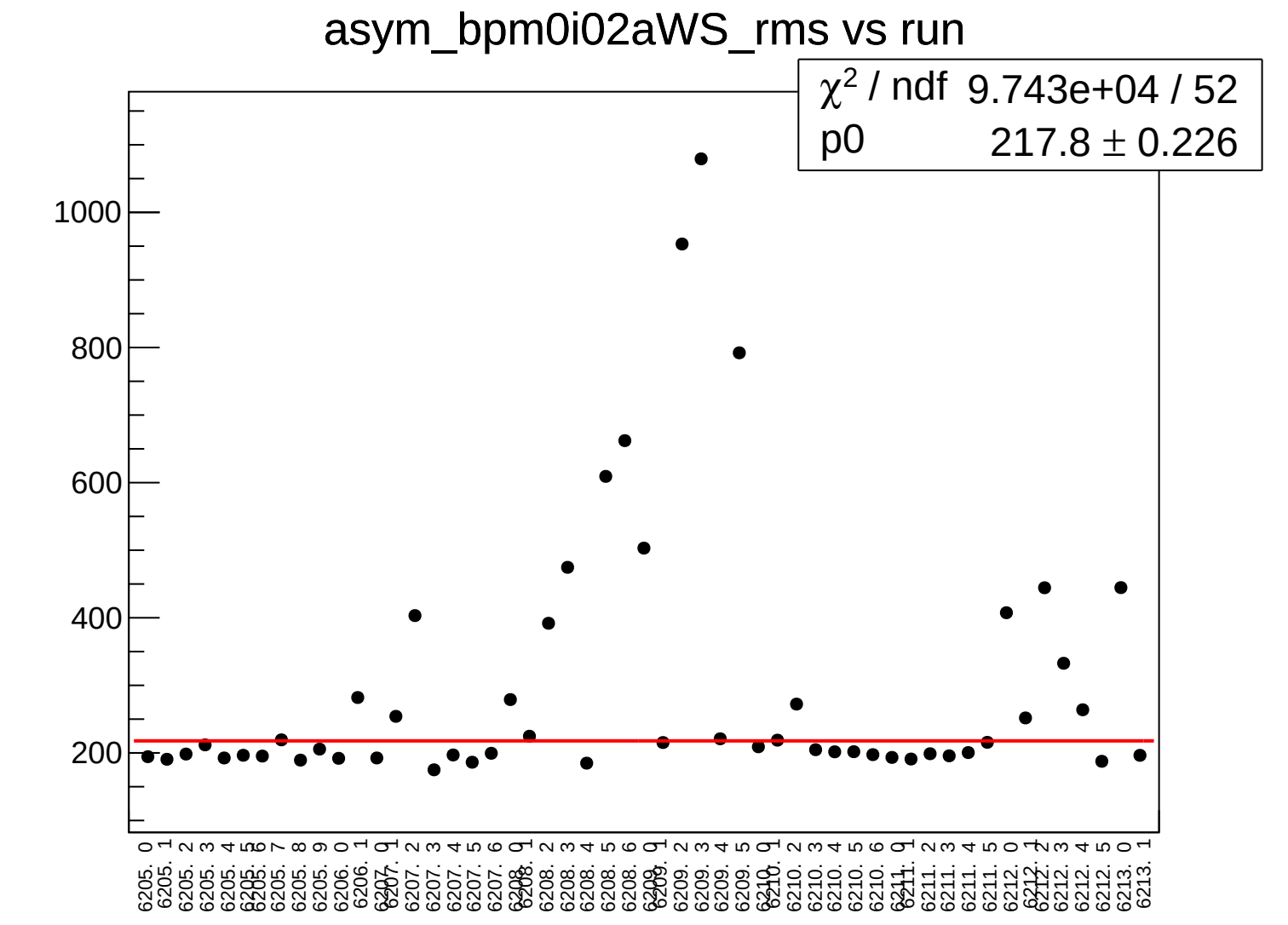

asym_bpm0i02WS_mean vs run
χ² / ndf 645.9 / 52
p0 −5481 ± 229.4
pull
Entries 53
Mean 272.4
Std Dev 250.3


pull1D
Entries 53
Mean −0.3318
Std Dev 3.176


asym_bpm0i02WS_rms vs run
χ² / ndf 1.501e+05 / 52
p0 151.8 ± 0.1622
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0i02aWS_mean vs run
χ² / ndf 132.9 / 52
p0 −3241 ± 319.7
pull
Entries 53
Mean 201.5
Std Dev 180.3


pull1D
Entries 53
Mean −0.06523
Std Dev 1.582


asym_bpm0i02aWS_rms vs run
χ^2 / ndf 9.743e+04 / 52
p0 217.8 ± 0.226
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
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6211. 2
6211. 3
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6212. 4
6212. 5
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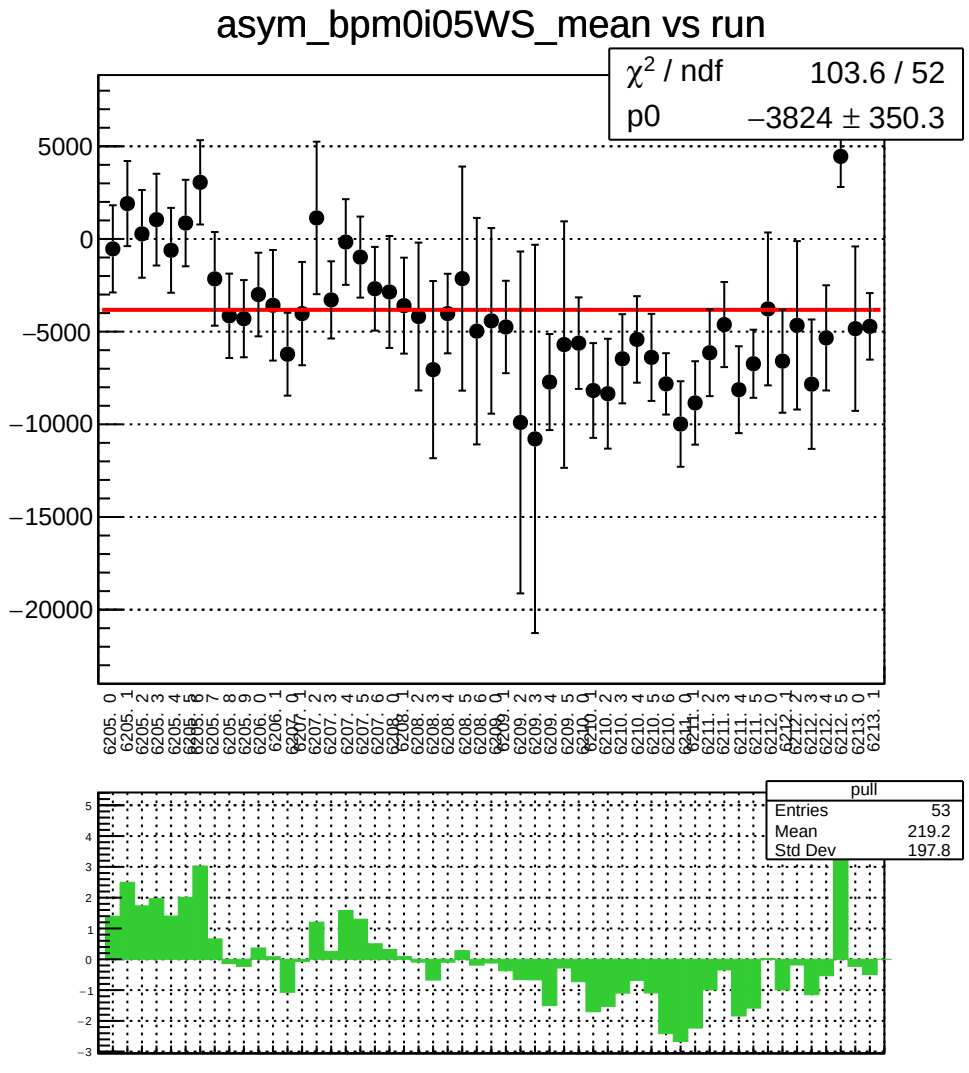
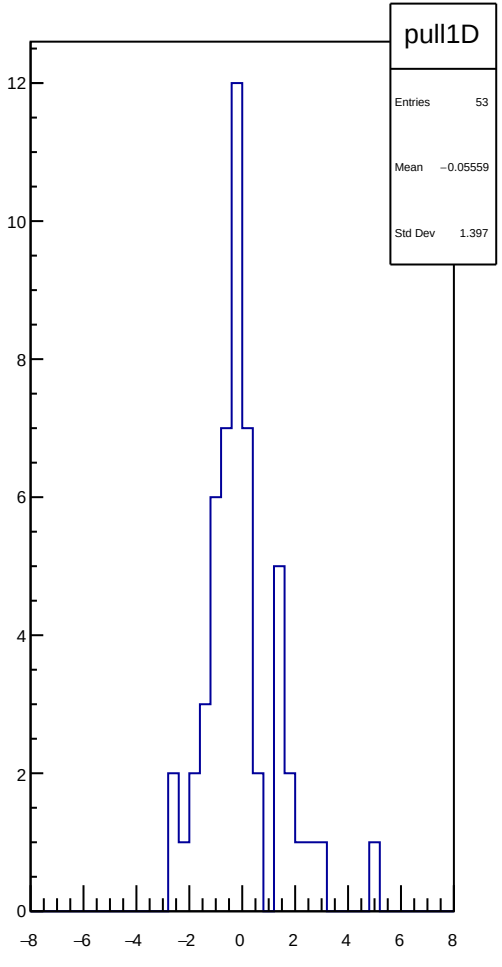
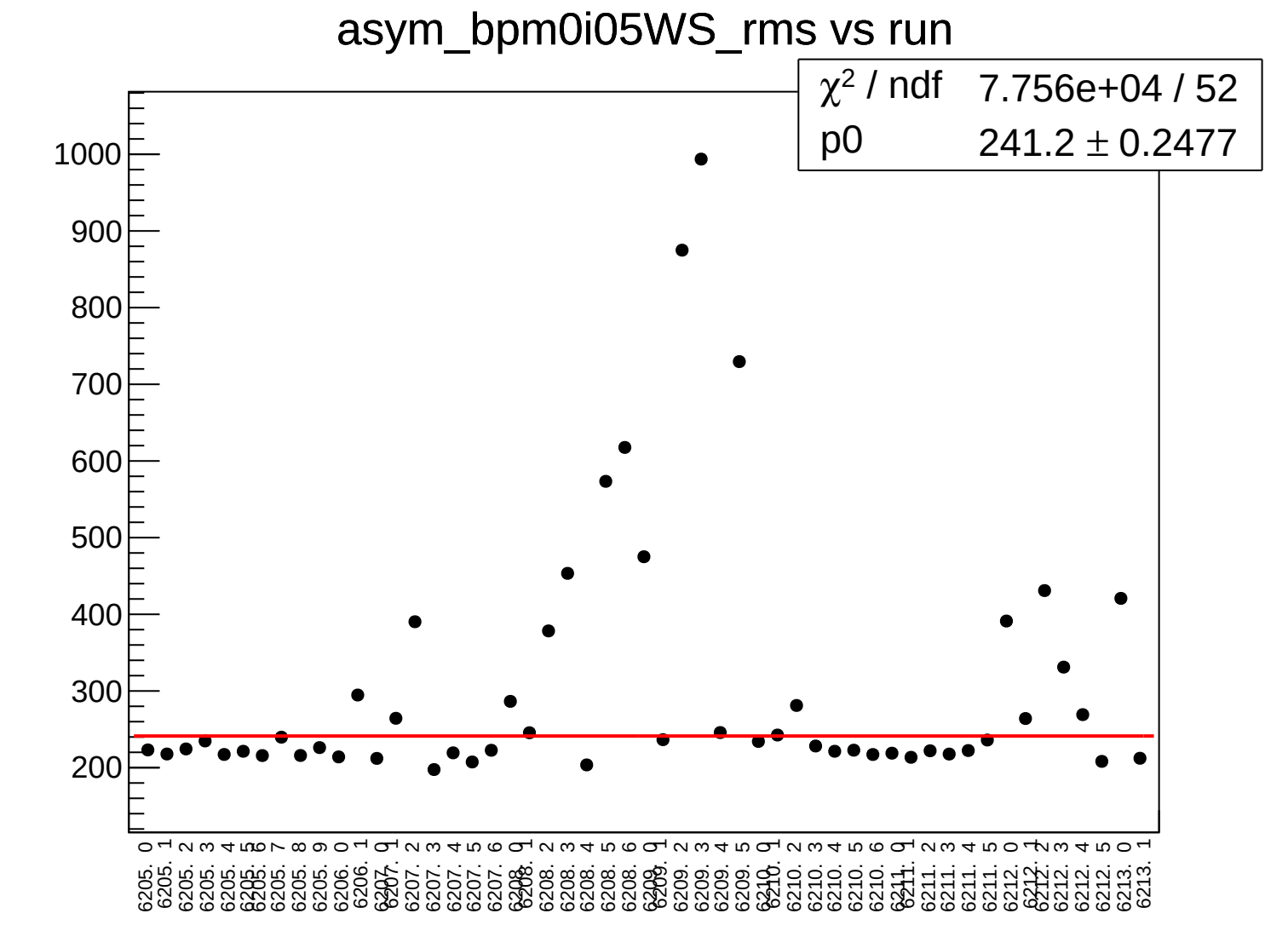
6213. 1


asym_bpm0i05WS_mean vs run
χ² / ndf 103.6 / 52
p0 −3824 ± 350.3
5000
0
−5000
−10000
−15000
−20000
pull
Entries 53
Mean 219.2
Std Dev 197.8


pull1D
Entries 53
Mean −0.05559
Std Dev 1.397


asym_bpm0i05WS_rms vs run
χ² / ndf 7.756e+04 / 52
p0 241.2 ± 0.2477
1000
900
800
700
600
500
400
300
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
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6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
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6208. 6
6208. 9
6209. 0
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6209. 4
6209. 5
6210. 0
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6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
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6211. 3
6211. 4
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6212. 0
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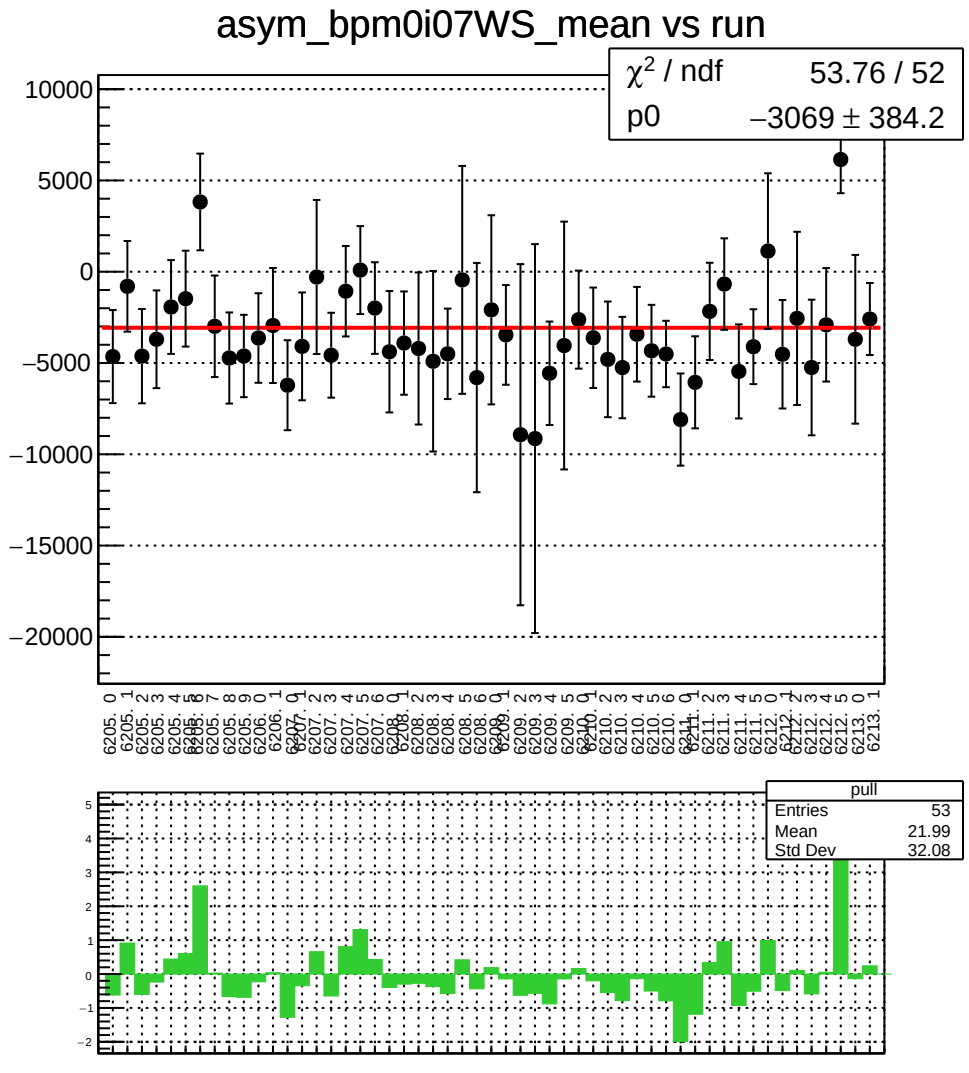
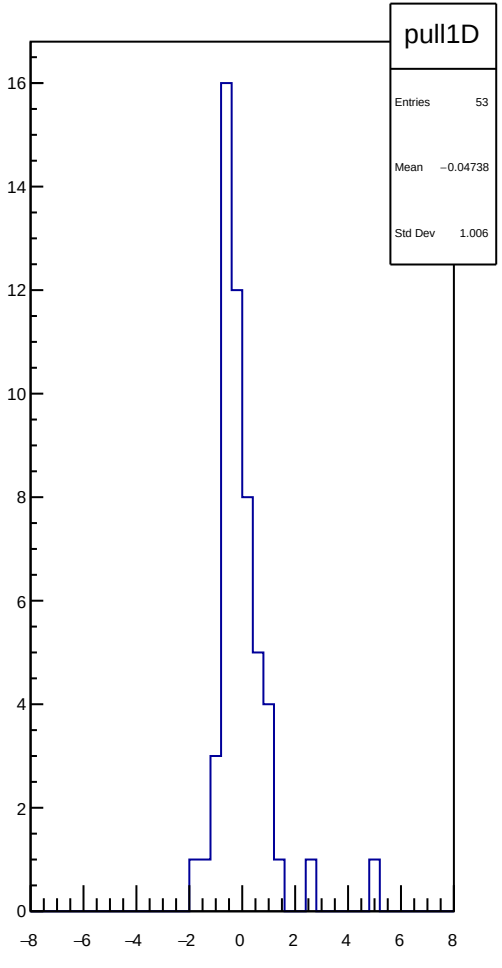
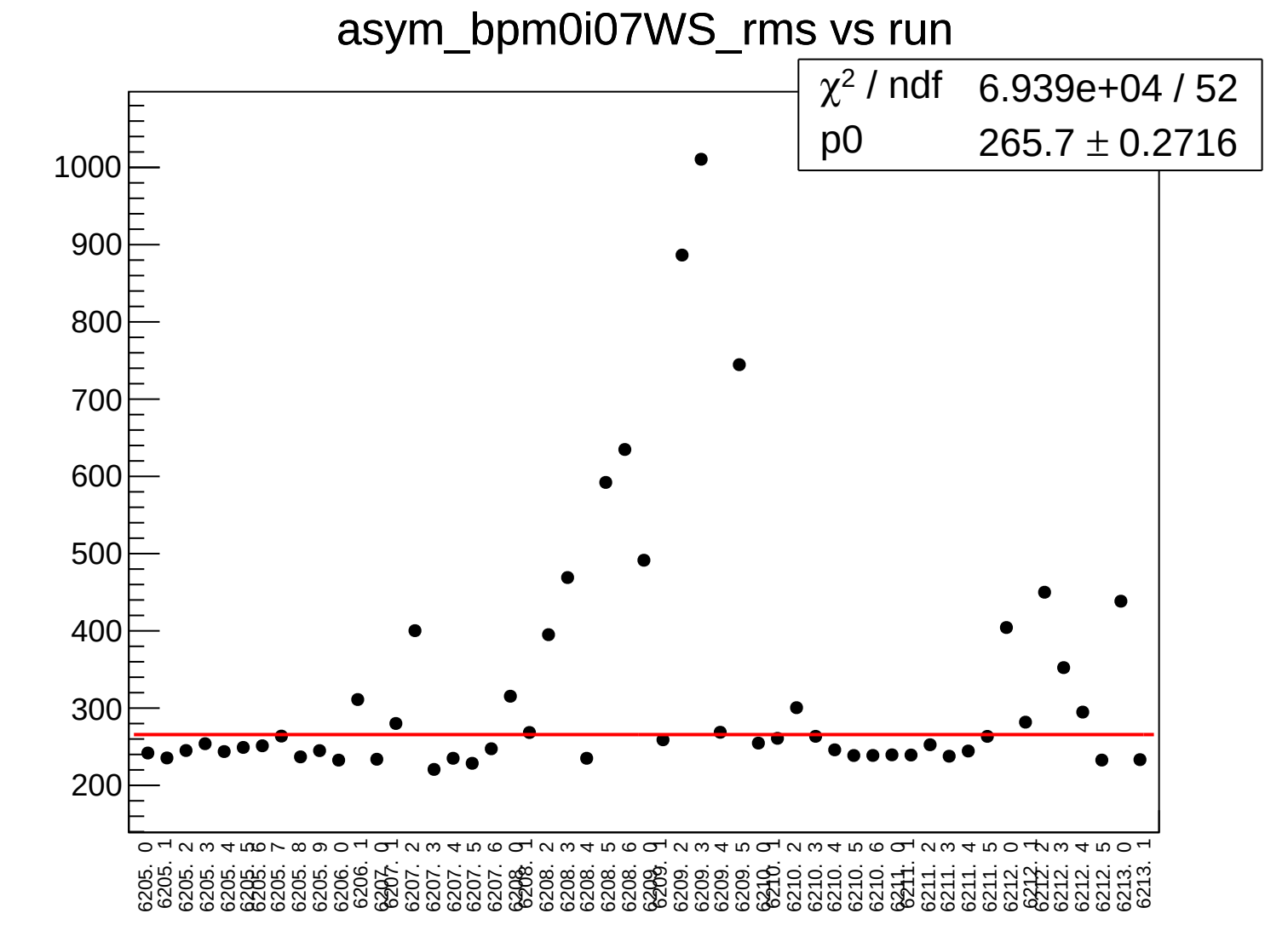
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0i07WS_mean vs run
χ² / ndf 53.76 / 52
p0 −3069 ± 384.2
pull
Entries 53
Mean 21.99
Std Dev 32.08


pull1D
Entries 53
Mean −0.04738
Std Dev 1.006


asym_bpm0i07WS_rms vs run
χ² / ndf 6.939e+04 / 52
p0 265.7 ± 0.2716
1000
900
800
700
600
500
400
300
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
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6208. 2
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6208. 4
6208. 5
6208. 6
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6211. 2
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6211. 4
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6212. 0
6212. 1
6212. 2
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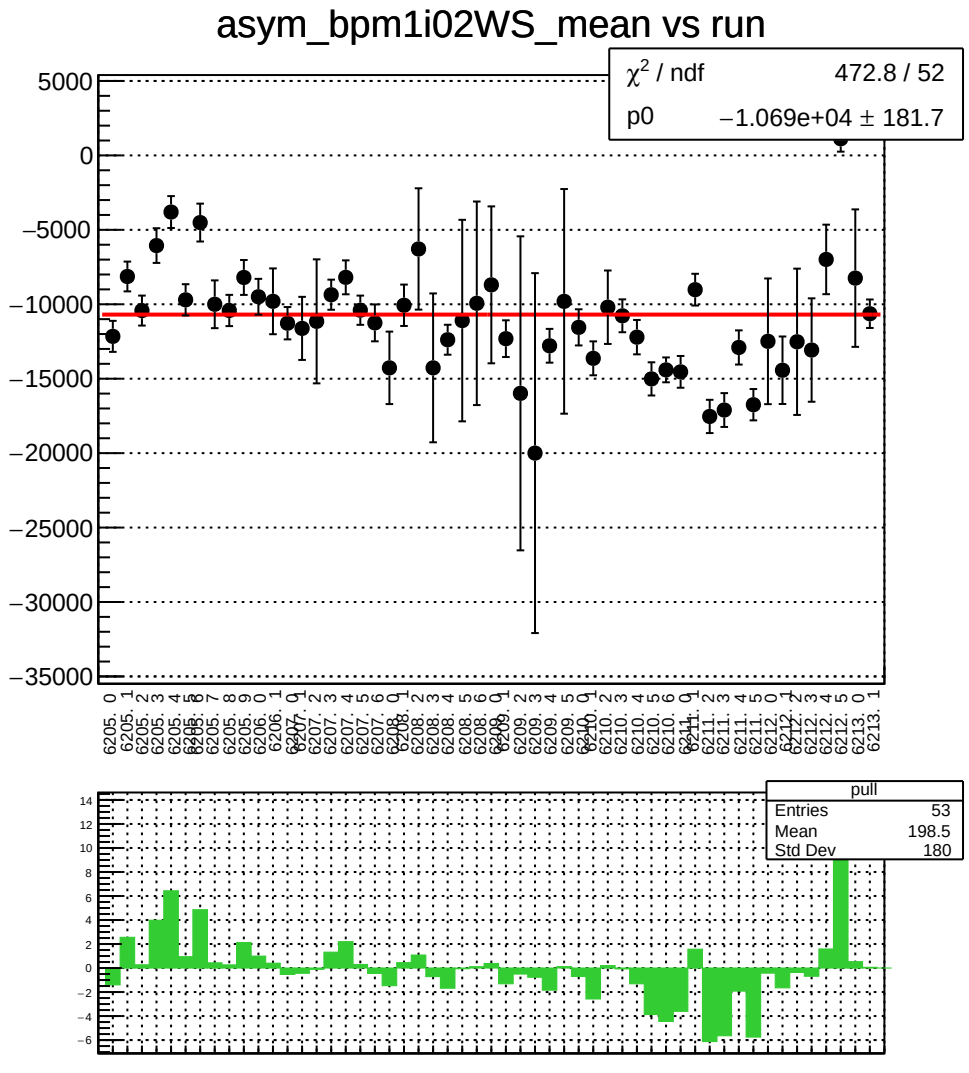
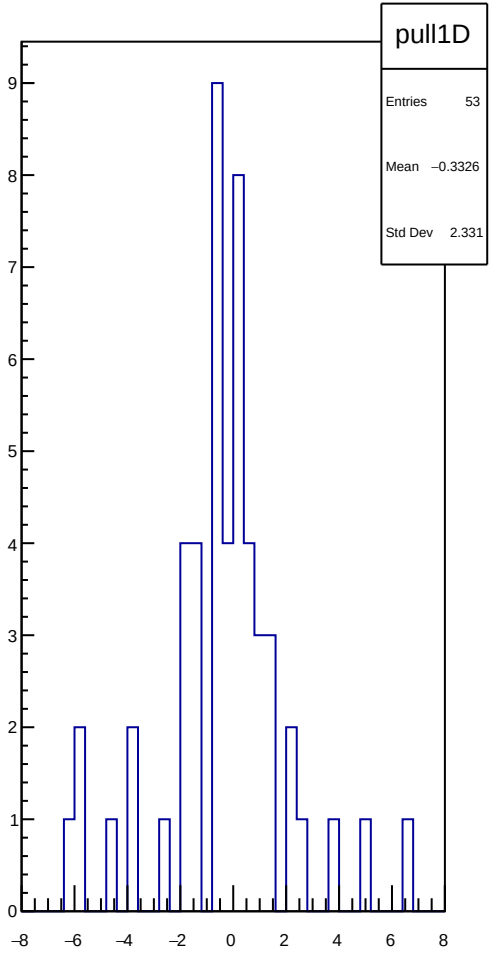
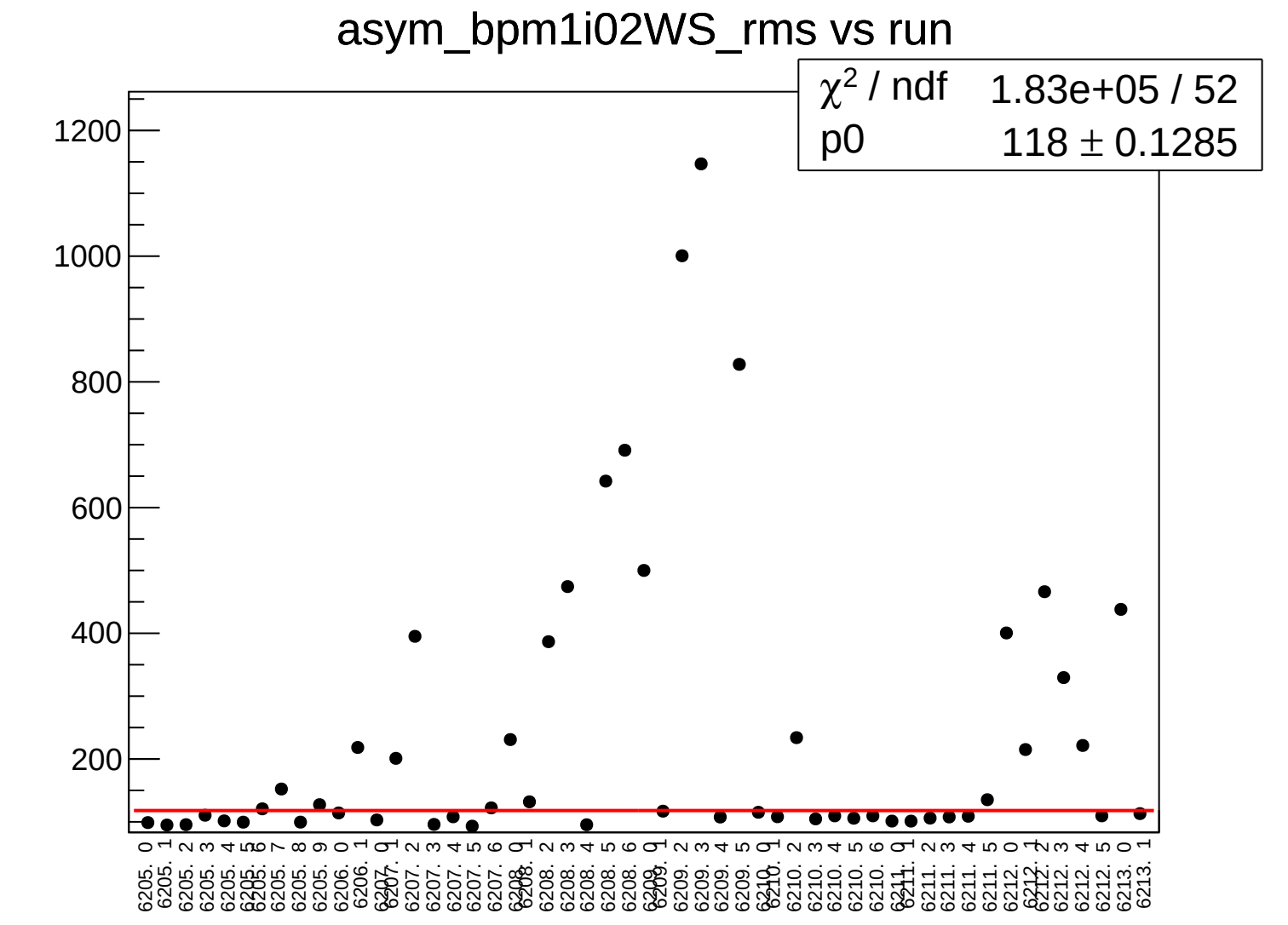
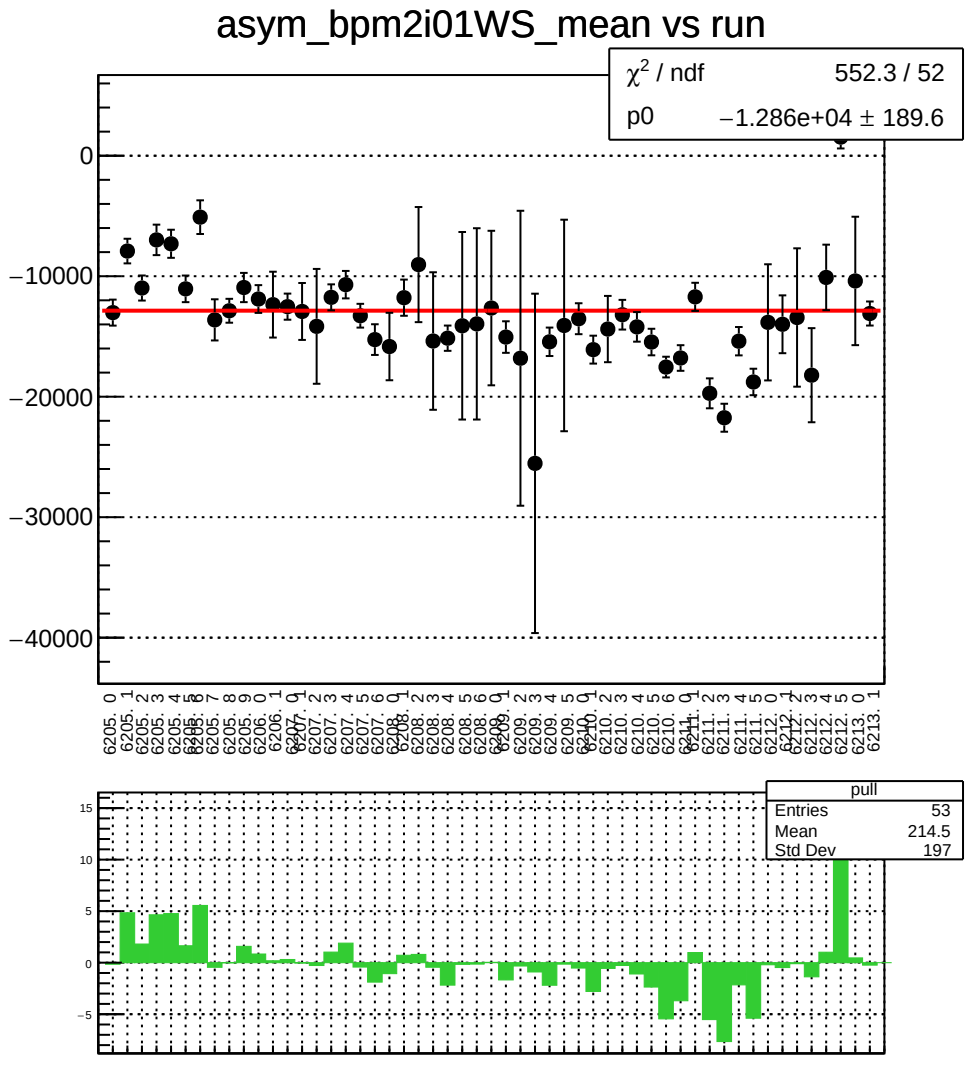
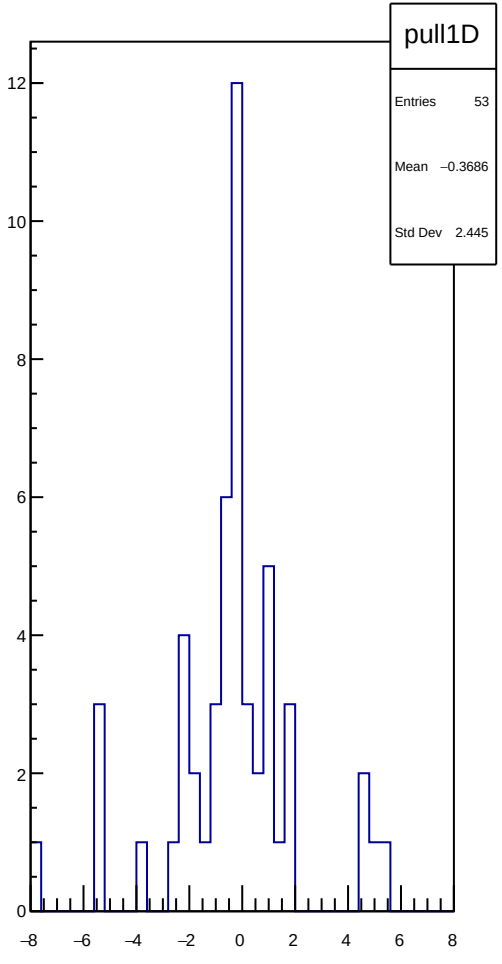
6213. 0
6213. 1

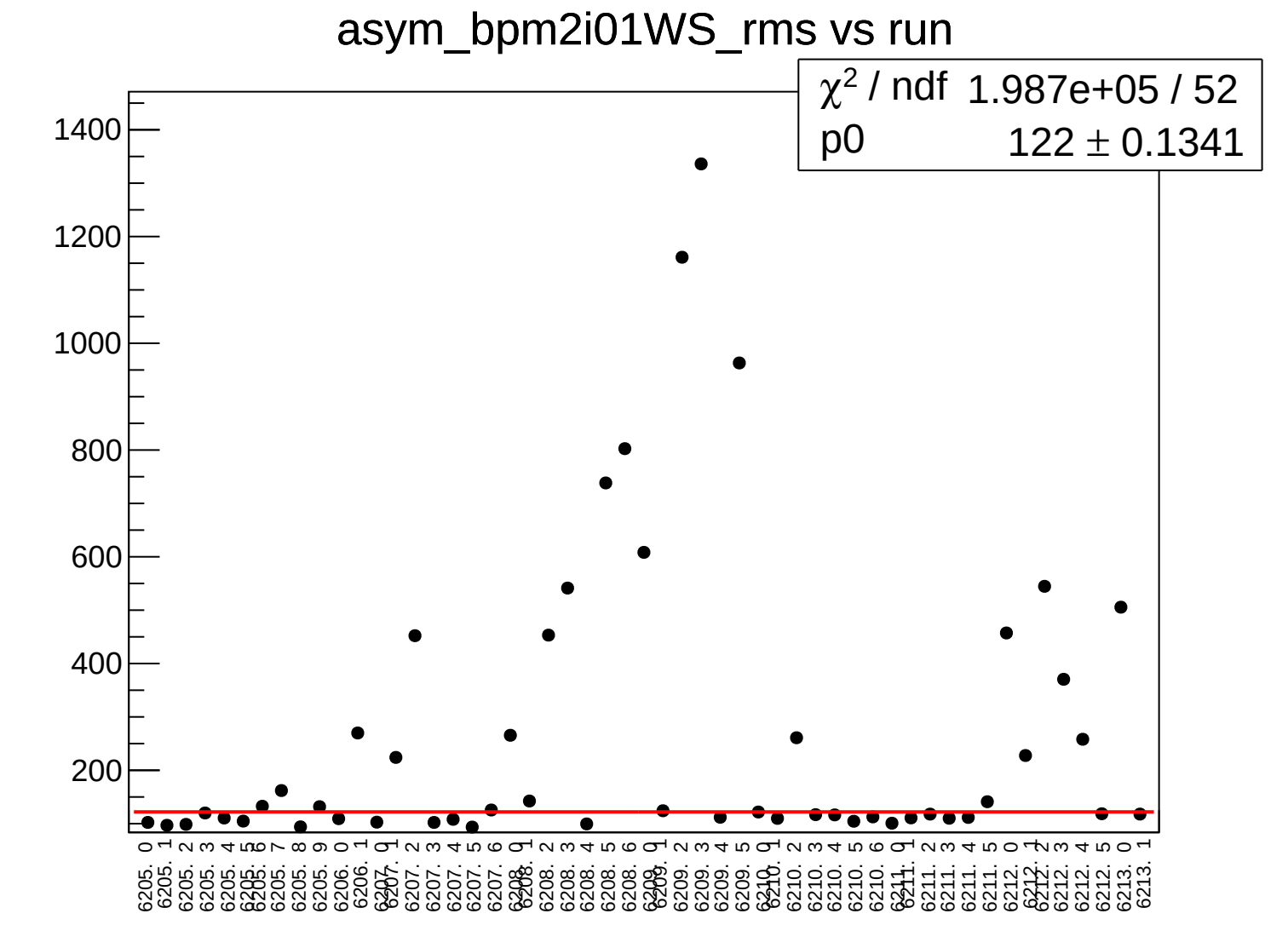

asym_bpm1i02WS_mean vs run
χ² / ndf 472.8 / 52
p0 −1.069e+04 ± 181.7
pull
Entries 53
Mean 198.5
Std Dev 180

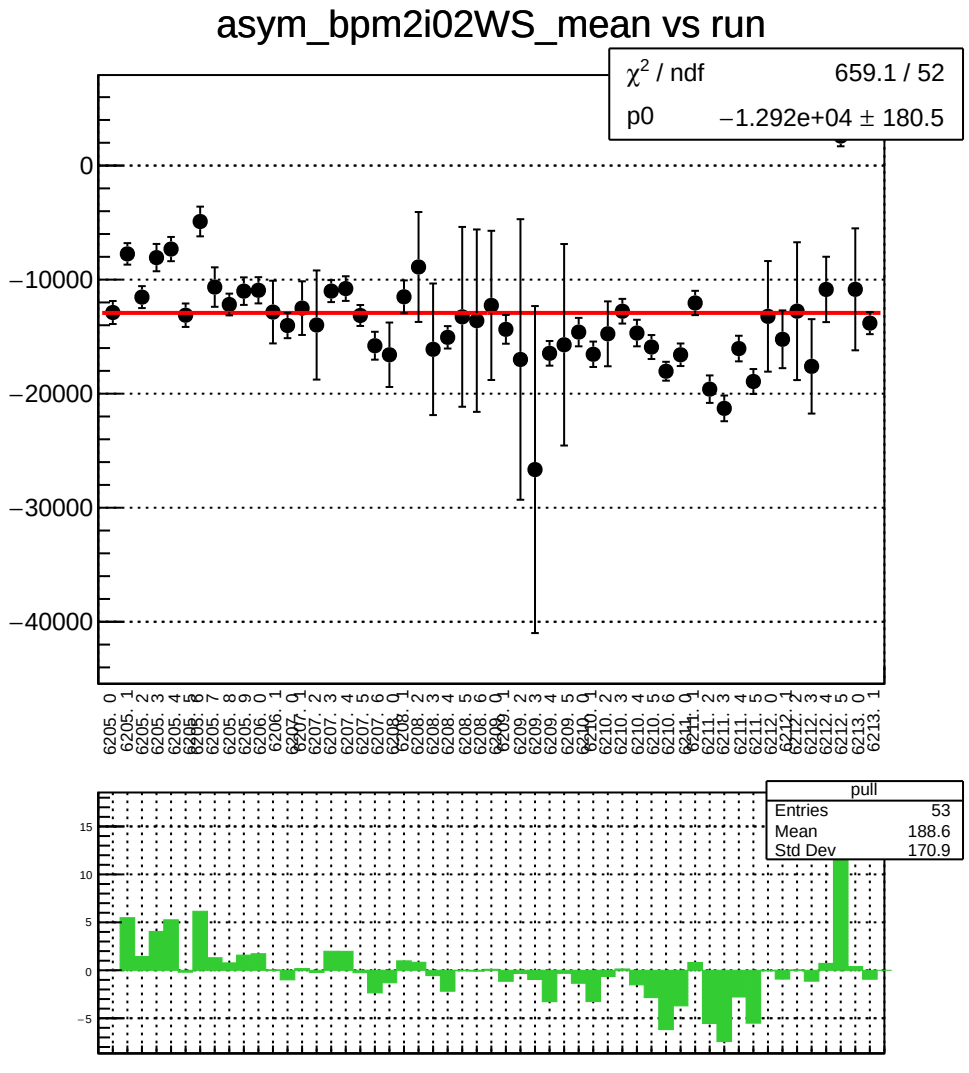

pull1D
Entries 53
Mean −0.3326
Std Dev 2.331

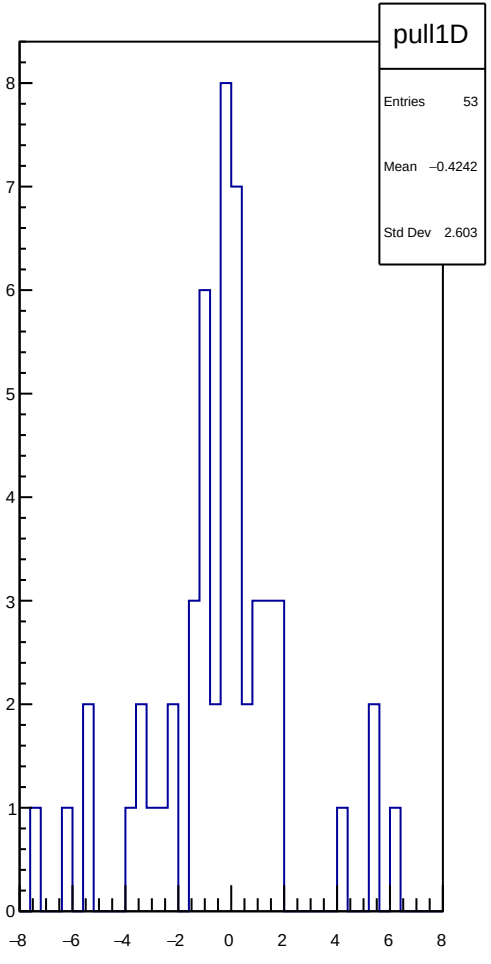

asym_bpm1i02WS_rms vs run
χ² / ndf 1.83e+05 / 52
p0 118 ± 0.1285
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

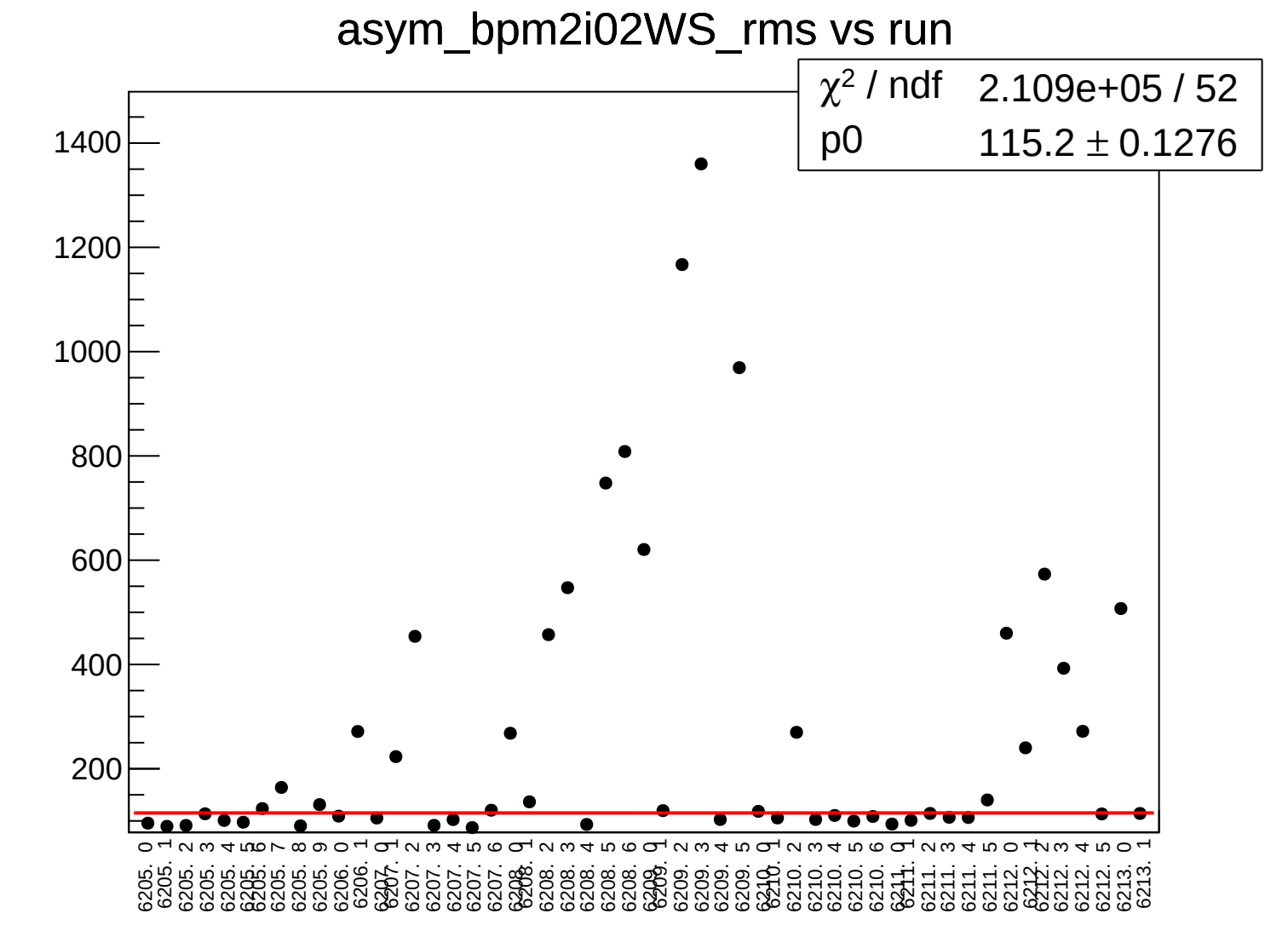

asym_bpm2i01WS_mean vs run
χ² / ndf 552.3 / 52
p0 −1.286e+04 ± 189.6
0
−10000
−20000
−30000
−40000
pull
Entries 53
Mean 214.5
Std Dev 197
15
10
5
0
−5

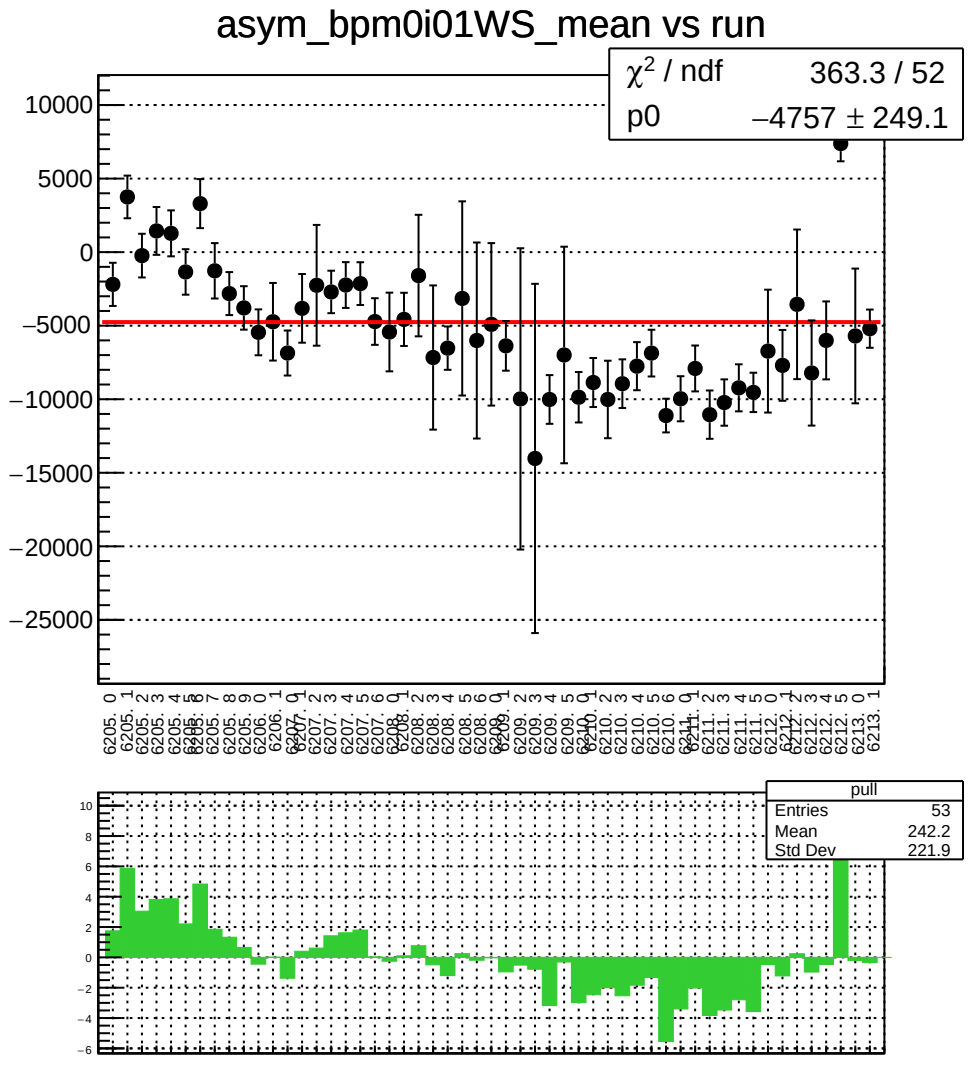

pull1D
Entries 53
Mean −0.3686
Std Dev 2.445
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

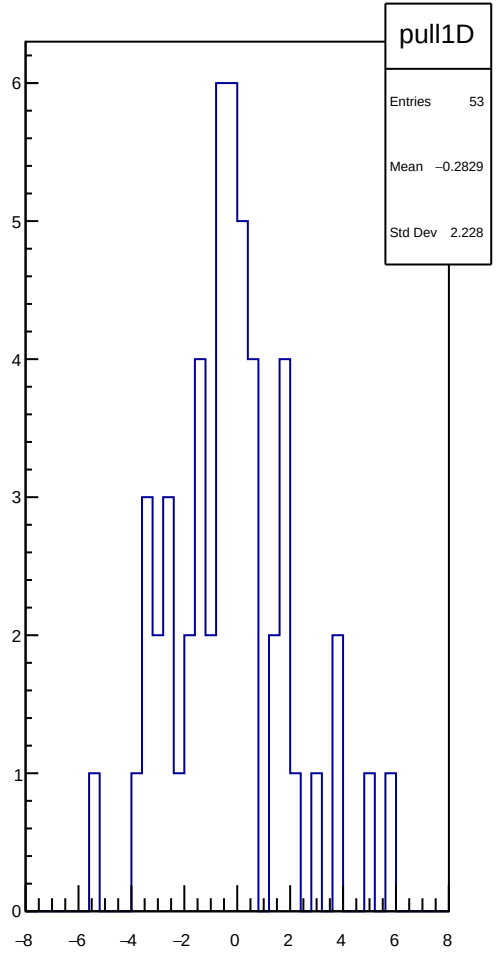

asym_bpm2i01WS_rms vs run
χ² / ndf 1.987e+05 / 52
p0 122 ± 0.1341
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

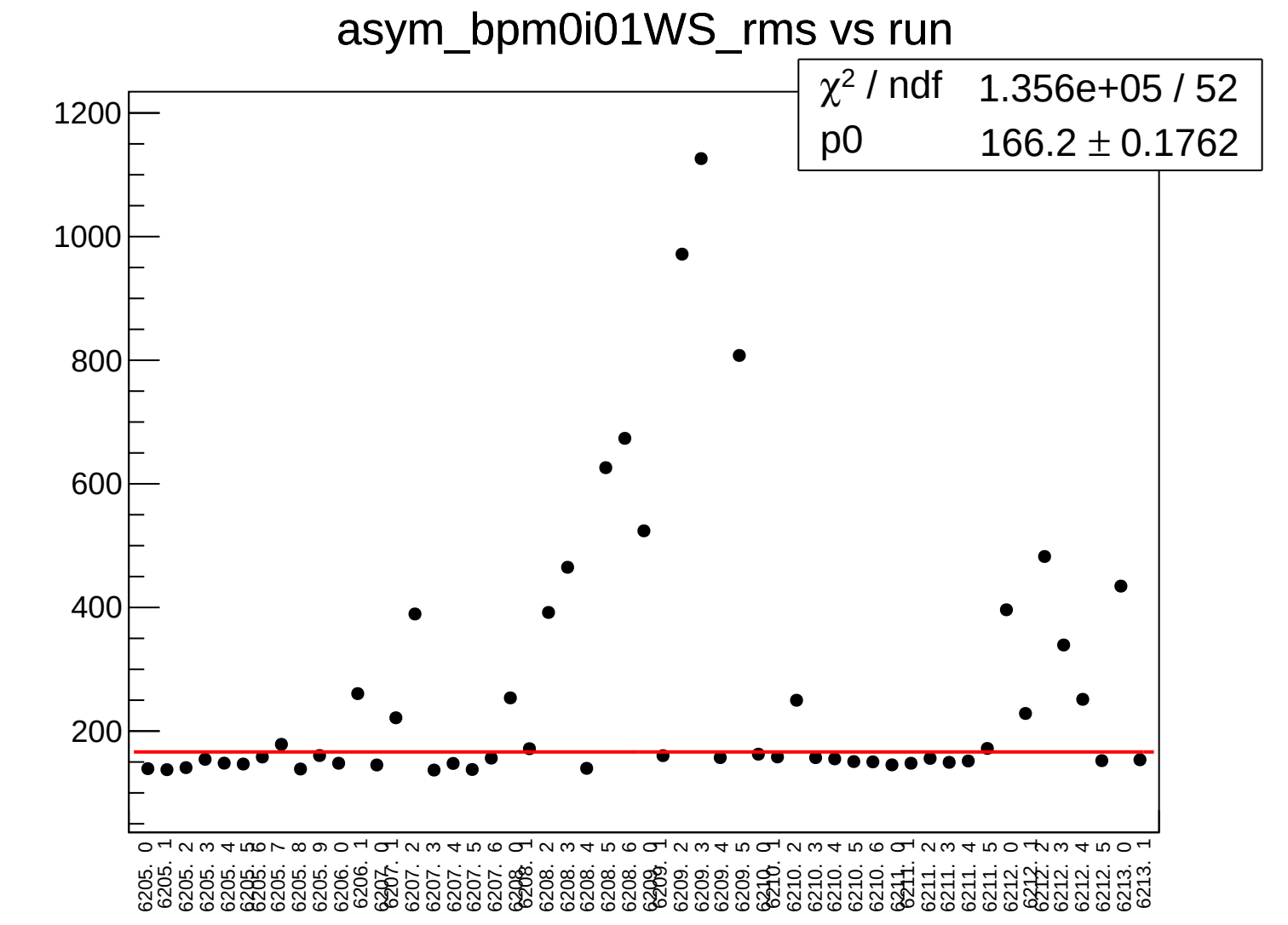

asym_bpm2i02WS_mean vs run
χ² / ndf 659.1 / 52
p0 −1.292e+04 ± 180.5
0
−10000
−20000
−30000
−40000
pull
Entries 53
Mean 188.6
Std Dev 170.9
15
10
5
0
−5

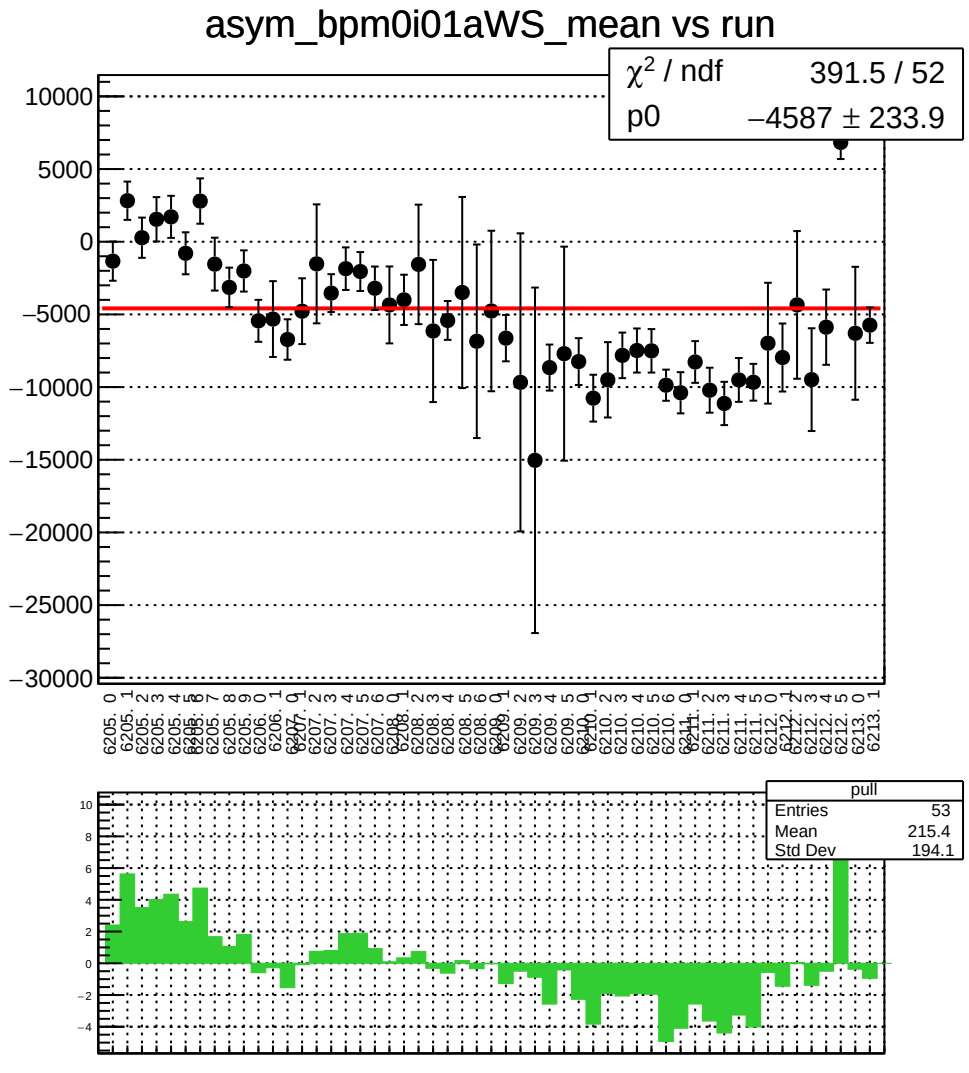

pull1D
Entries 53
Mean −0.4242
Std Dev 2.603
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

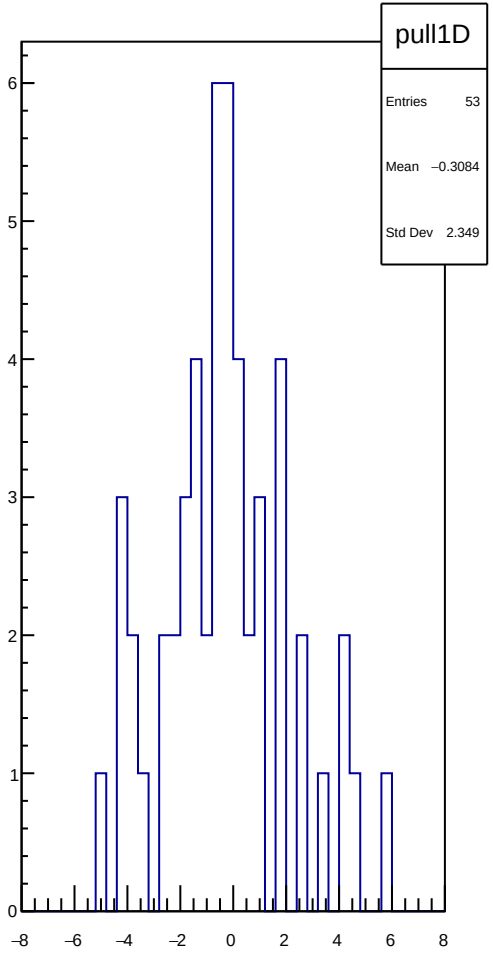

asym_bpm2i02WS_rms vs run
χ^2 / ndf 2.109e+05 / 52
p0 115.2 ± 0.1276
1400
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

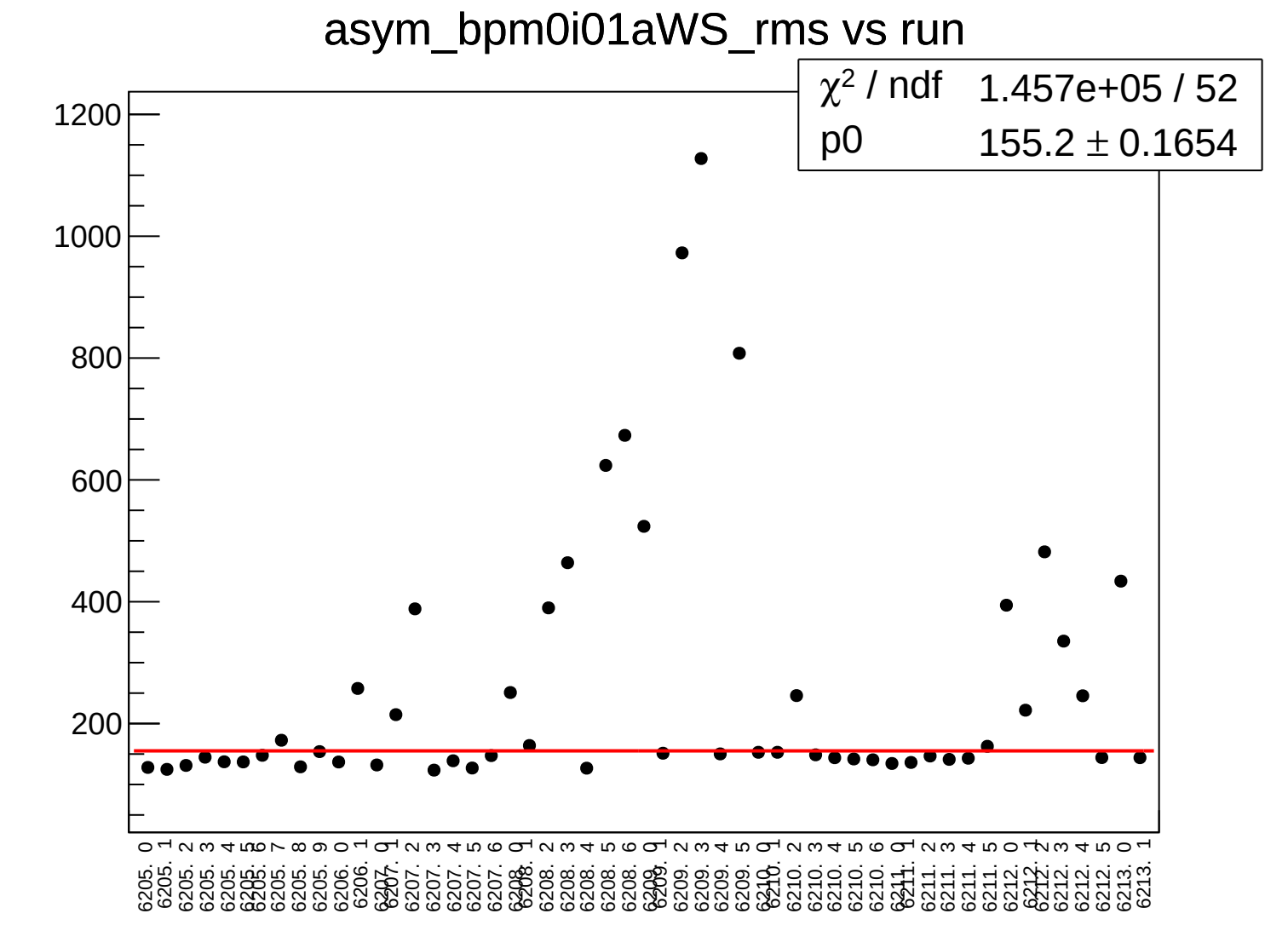

asym_bpm0i01WS_mean vs run
χ² / ndf 363.3 / 52
p0 −4757 ± 249.1
pull
Entries 53
Mean 242.2
Std Dev 221.9

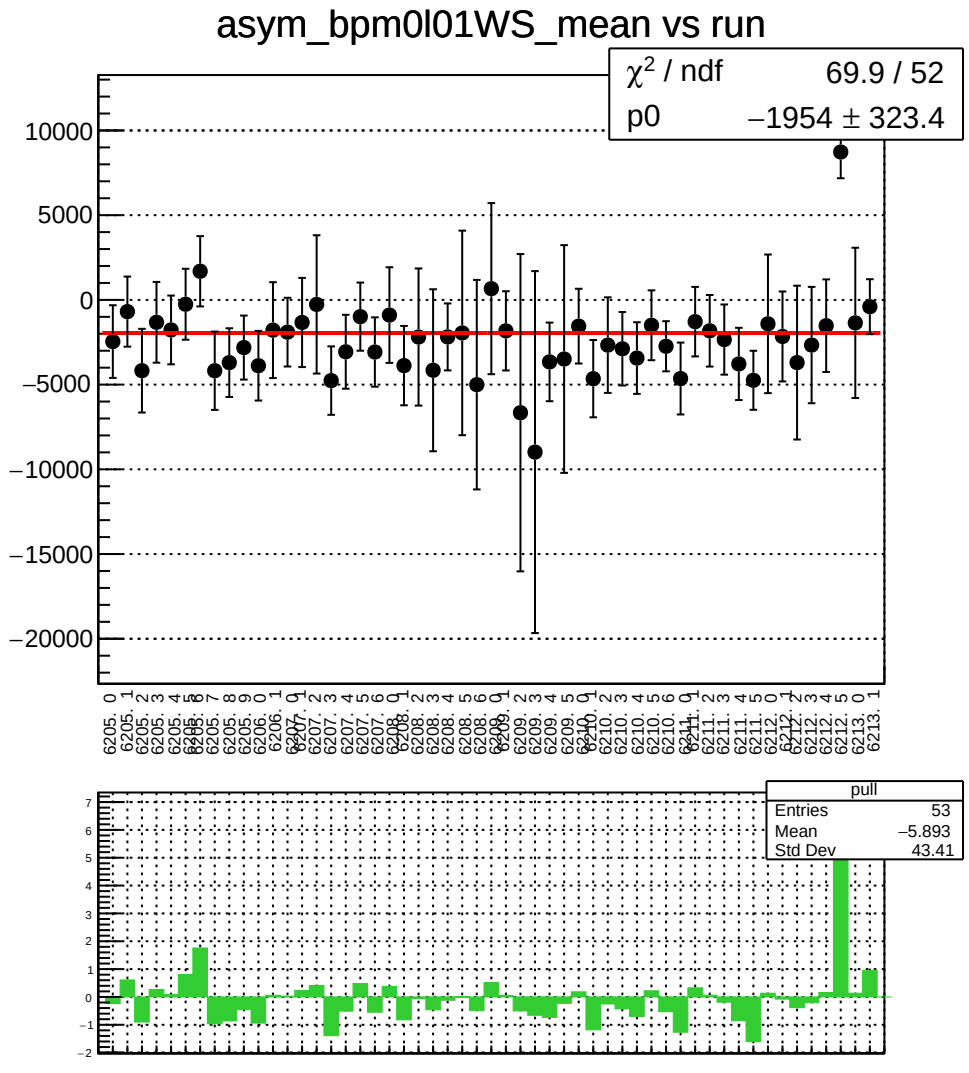

pull1D
Entries 53
Mean −0.2829
Std Dev 2.228

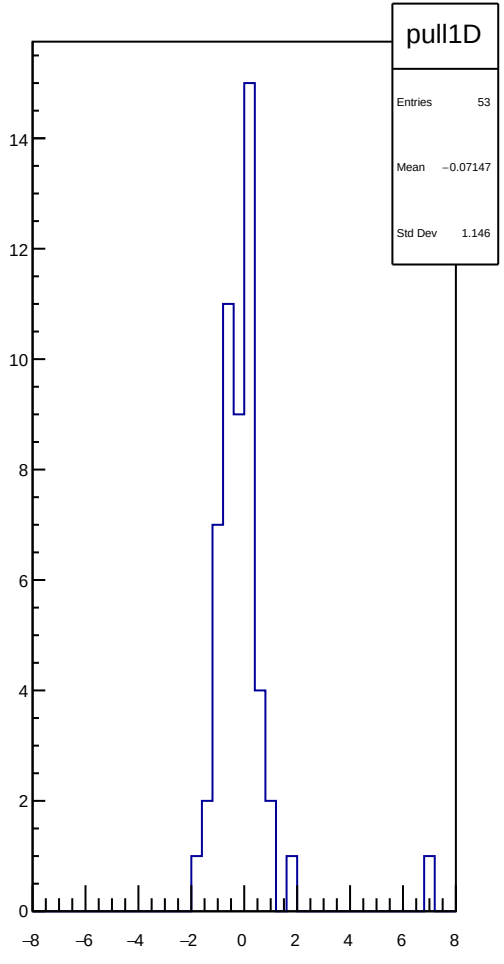

asym_bpm0i01WS_rms vs run
χ² / ndf 1.356e+05 / 52
p0 166.2 ± 0.1762
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

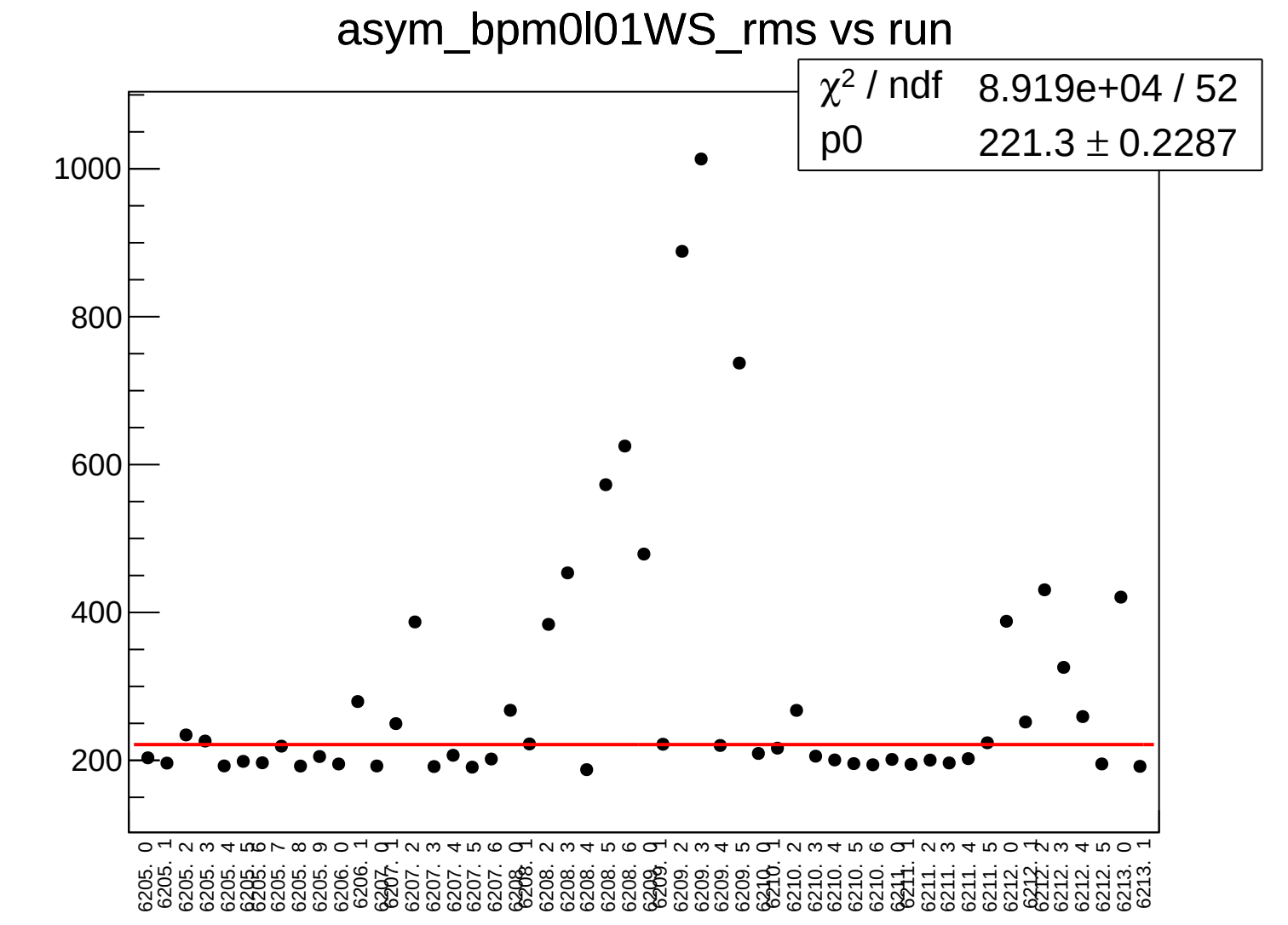

asym_bpm0i01aWS_mean vs run
χ² / ndf 391.5 / 52
p0 −4587 ± 233.9
pull
Entries 53
Mean 215.4
Std Dev 194.1


pull1D
Entries 53
Mean −0.3084
Std Dev 2.349


asym_bpm0i01aWS_rms vs run
χ² / ndf 1.457e+05 / 52
p0 155.2 ± 0.1654
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6211. 6
6211. 7
6211. 8
6211. 9
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6212. 6
6212. 7
6212. 8
6212. 9
6213. 0
6213. 1


asym_bpm0l01WS_mean vs run
χ² / ndf 69.9 / 52
p0 −1954 ± 323.4
pull
Entries 53
Mean −5.893
Std Dev 43.41


pull1D
Entries 53
Mean −0.07147
Std Dev 1.146


asym_bpm0l01WS_rms vs run
χ² / ndf 8.919e+04 / 52
p0 221.3 ± 0.2287
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
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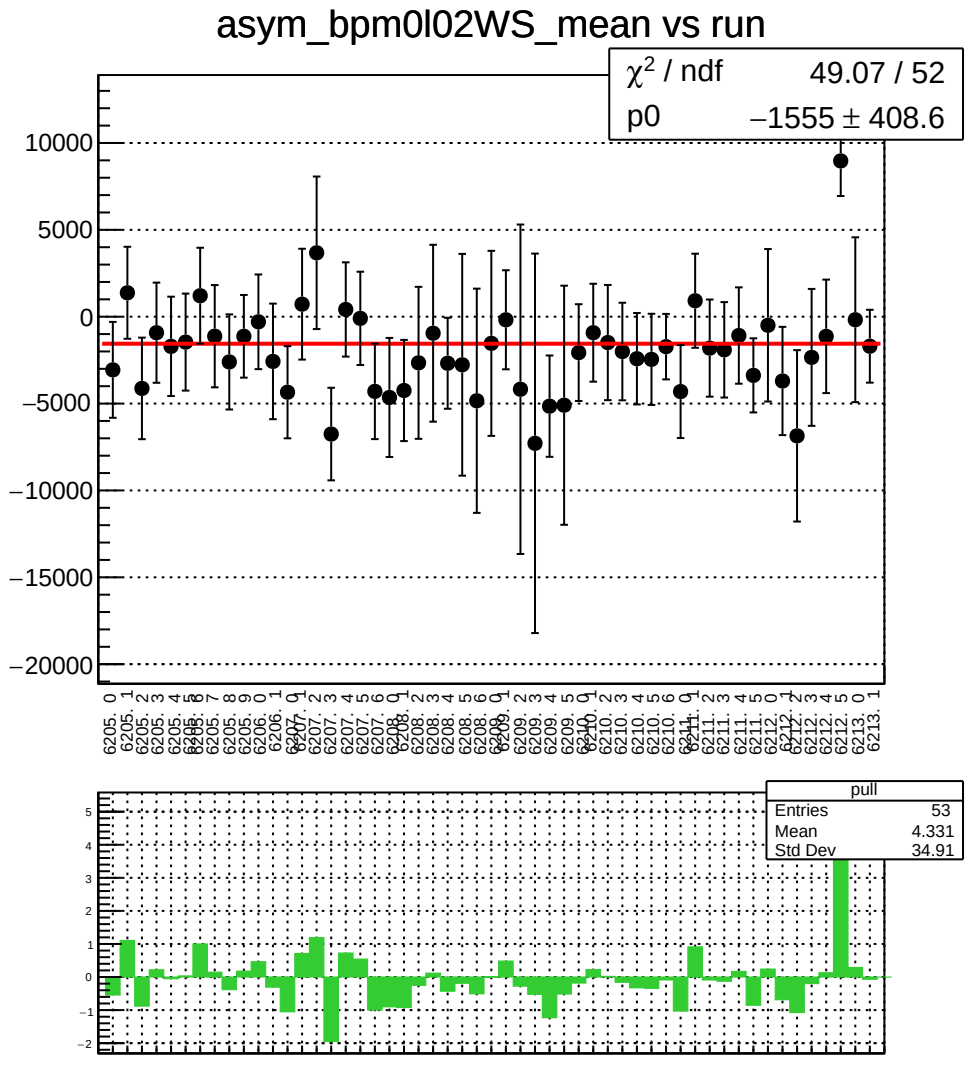
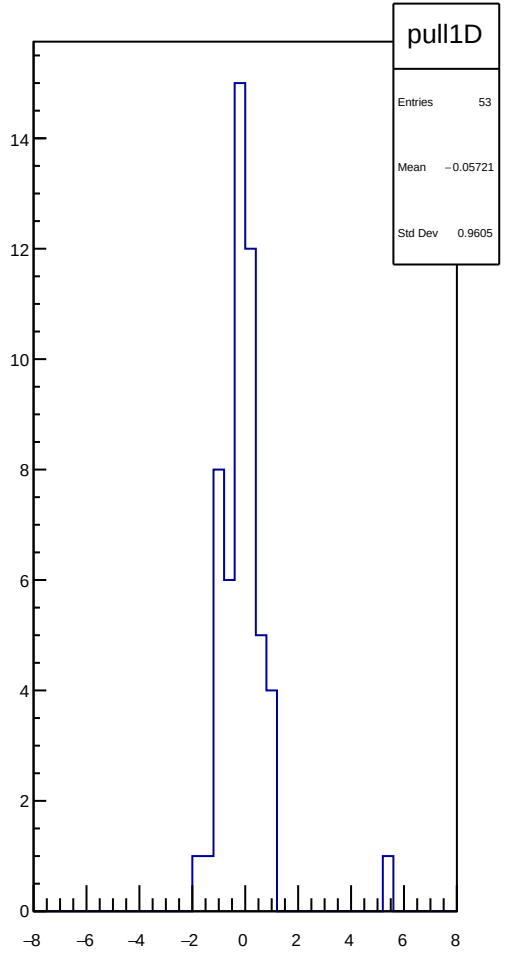
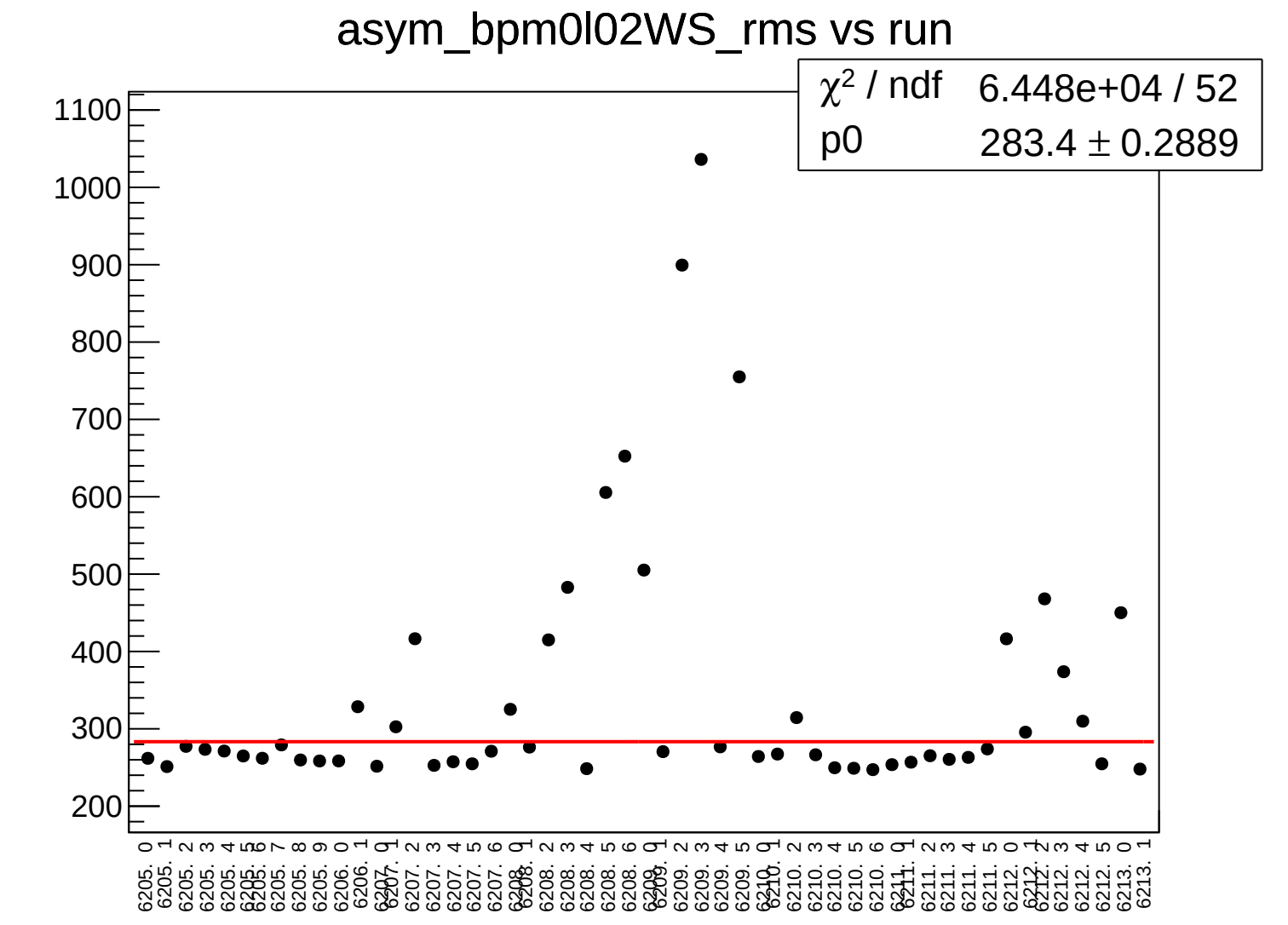
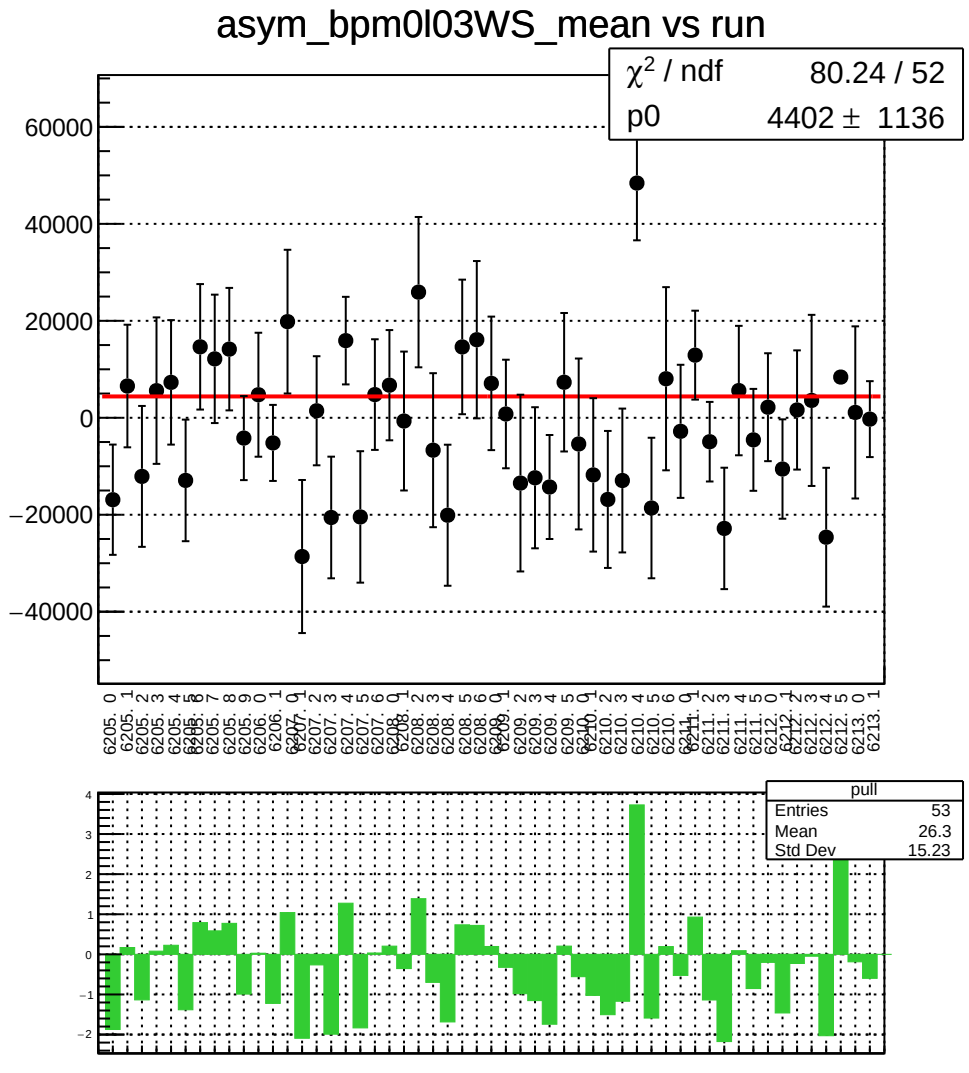
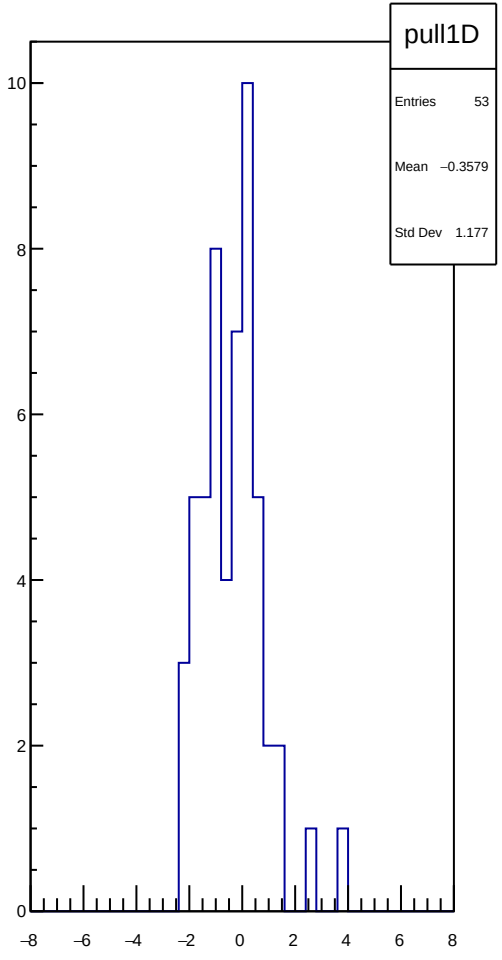
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

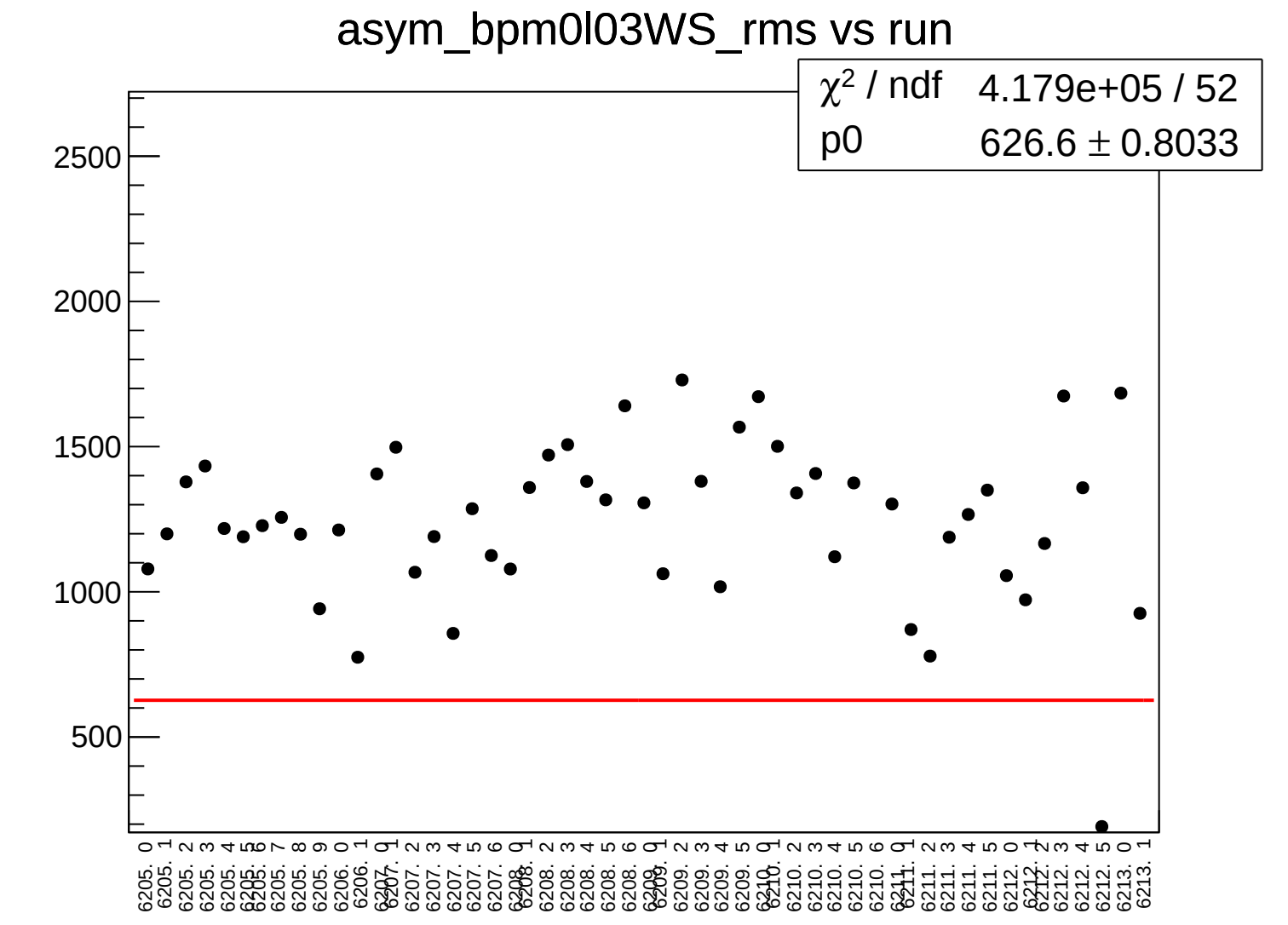

asym_bpm0l02WS_mean vs run
χ² / ndf 49.07 / 52
p0 −1555 ± 408.6
pull
Entries 53
Mean 4.331
Std Dev 34.91


pull1D
Entries 53
Mean −0.05721
Std Dev 0.9605


asym_bpm0l02WS_rms vs run
χ² / ndf 6.448e+04 / 52
p0 283.4 ± 0.2889
1100
1000
900
800
700
600
500
400
300
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0l03WS_mean vs run
χ² / ndf 80.24 / 52
p0 4402 ± 1136
pull
Entries 53
Mean 26.3
Std Dev 15.23


pull1D
Entries 53
Mean −0.3579
Std Dev 1.177


asym_bpm0l03WS_rms vs run
χ² / ndf 4.179e+05 / 52
p0 626.6 ± 0.8033
2500
2000
1500
1000
500
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
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6207. 4
6207. 5
6207. 6
6208. 0
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6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
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6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
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6212. 2
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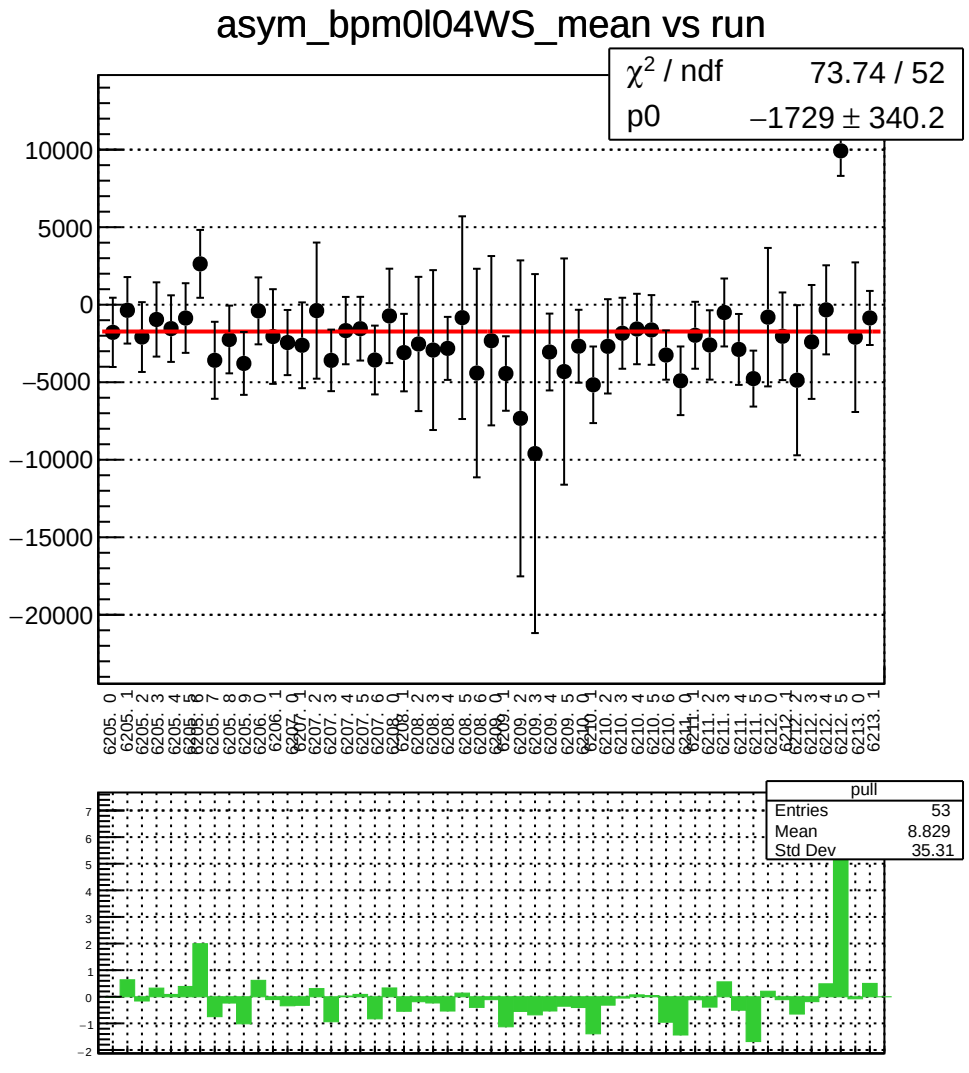
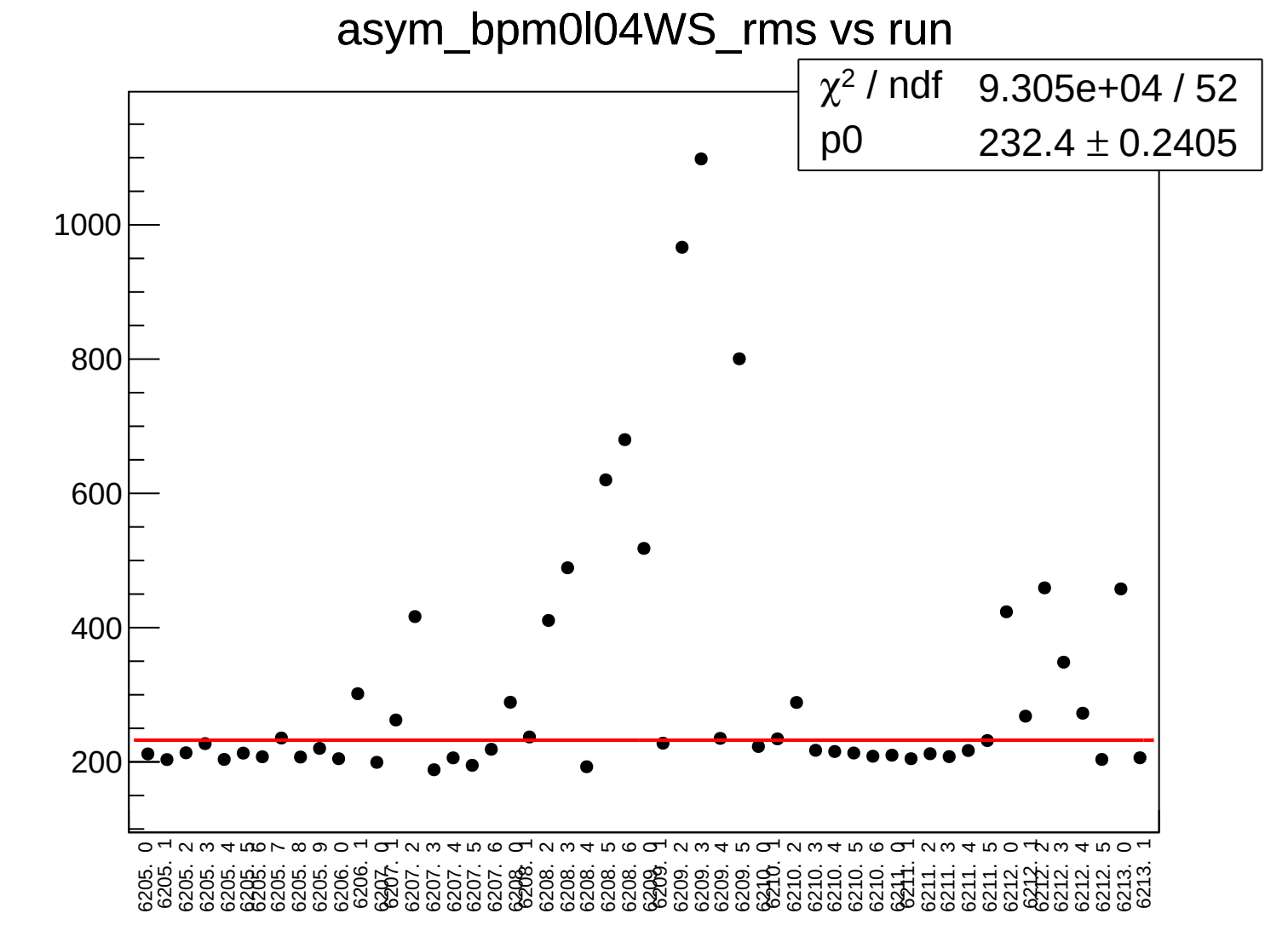
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0l04WS_mean vs run
χ^2 / ndf 73.74 / 52
p0 −1729 ± 340.2
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 53
Mean 8.829
Std Dev 35.31
pull1D
Entries 53
Mean −0.07914
Std Dev 1.177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l04WS_rms vs run
χ² / ndf 9.305e+04 / 52
p0 232.4 ± 0.2405
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
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6208. 4
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6208. 6
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6210. 0
6210. 1
6210. 2
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6210. 4
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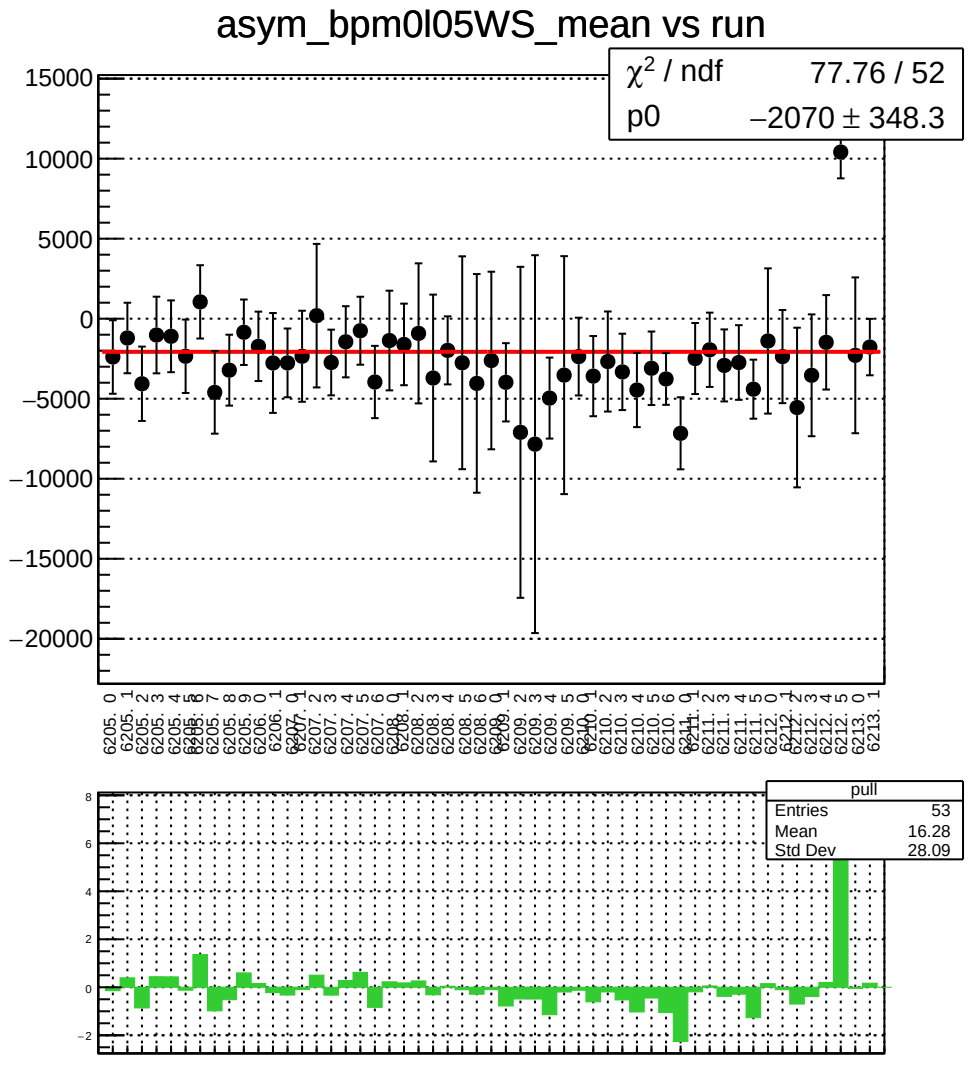
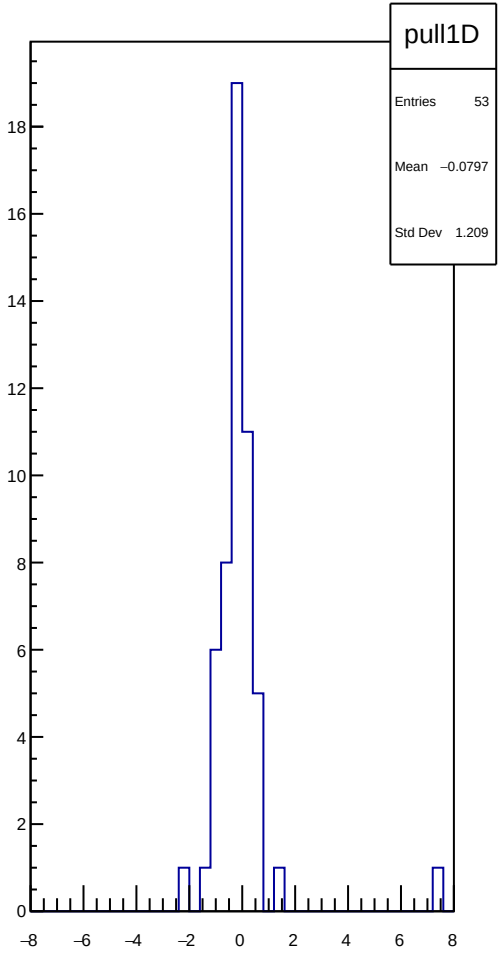
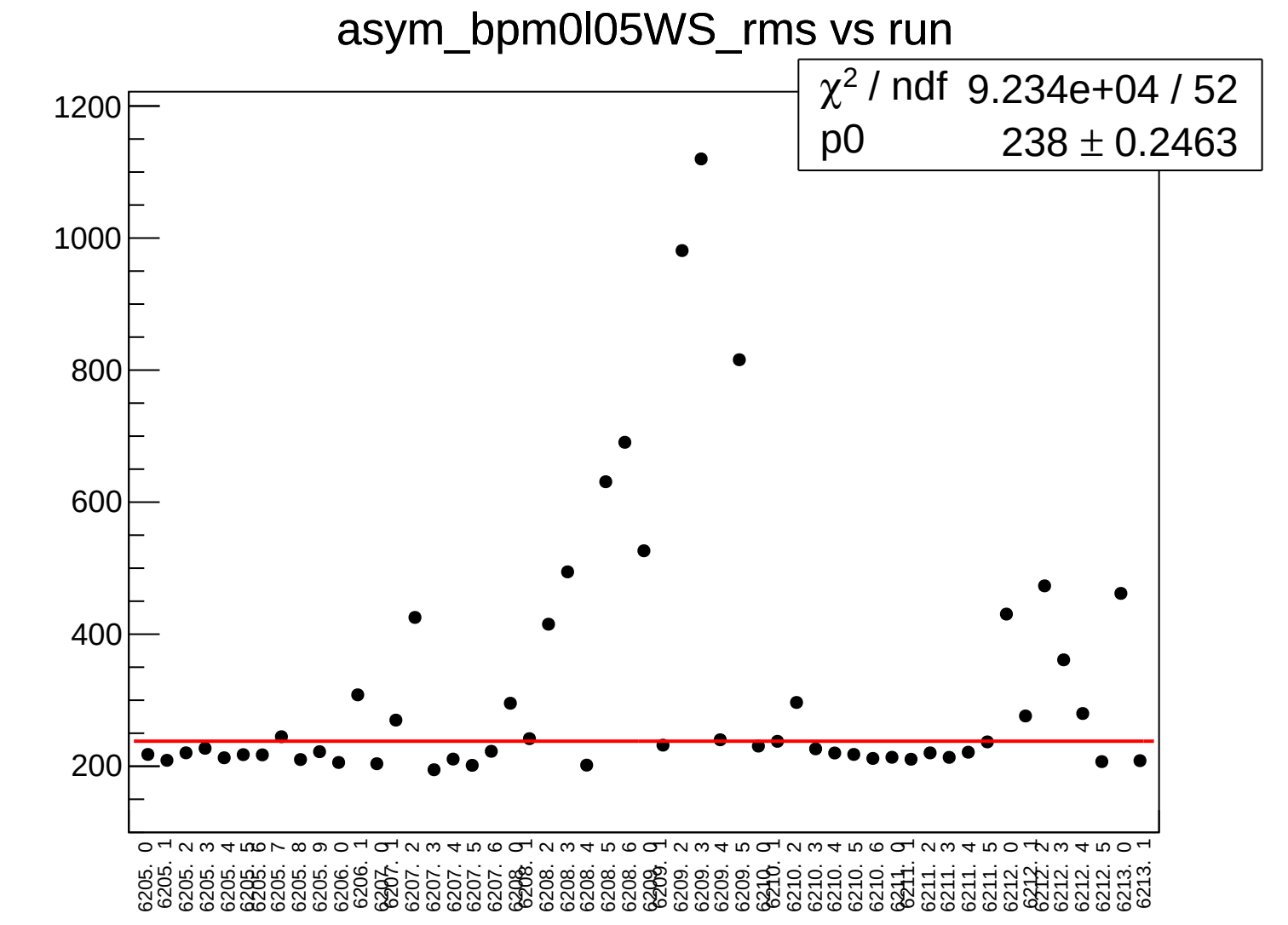
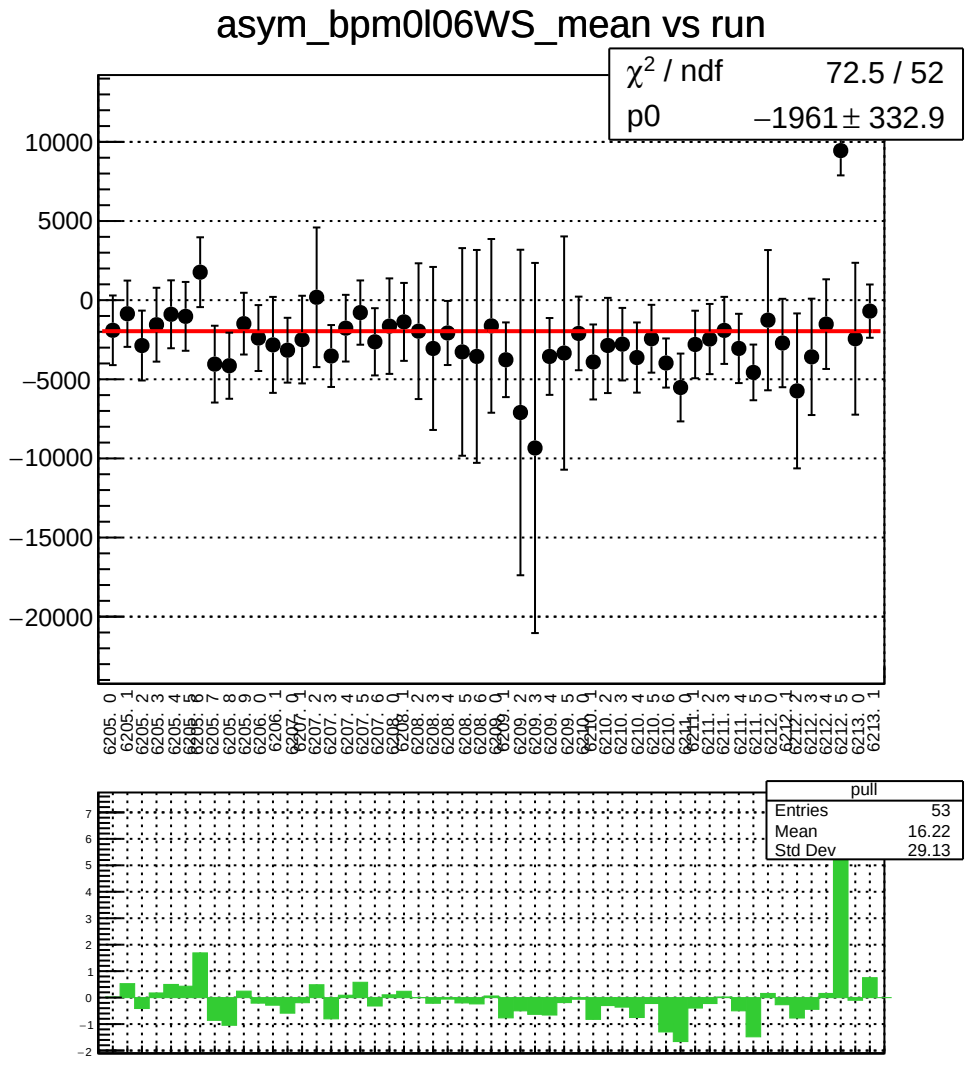
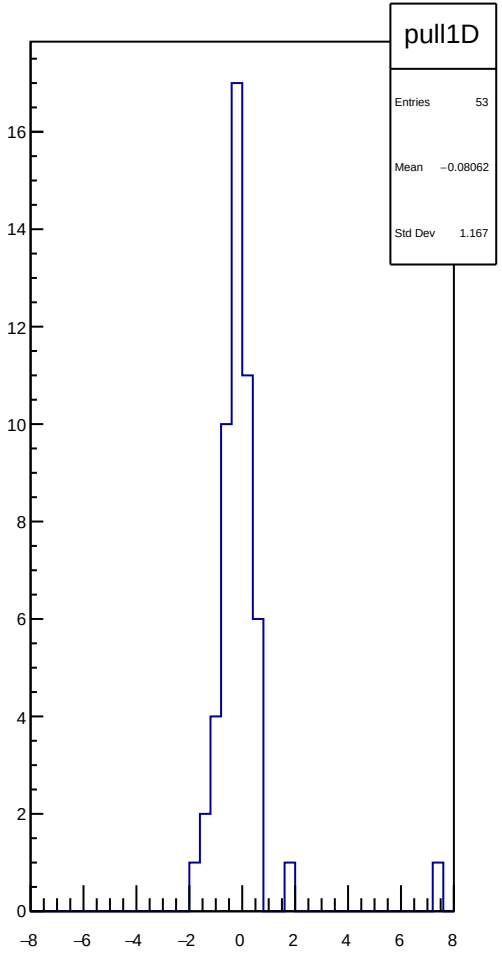
6213. 0
6213. 1

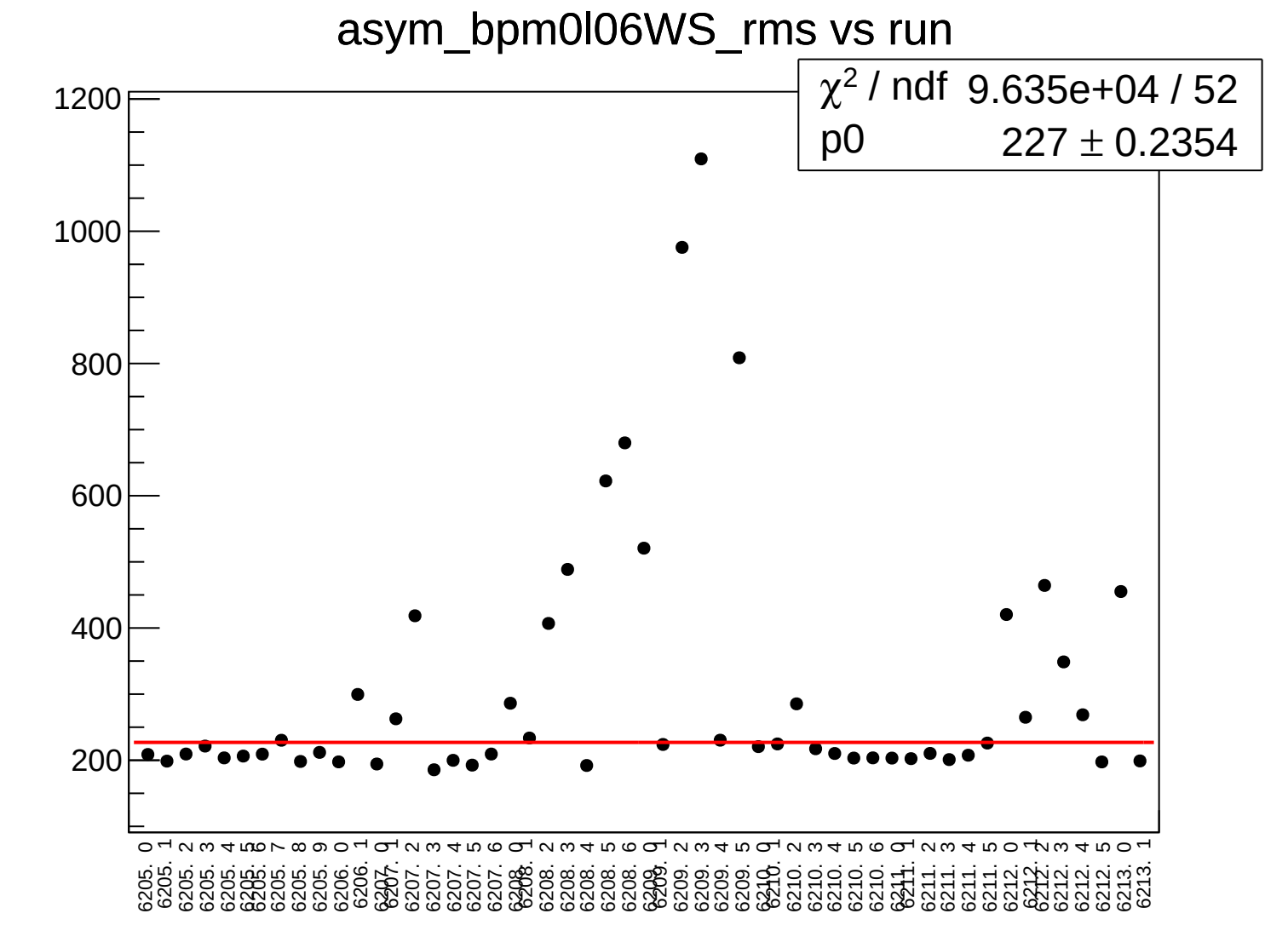

asym_bpm0l05WS_mean vs run
χ² / ndf 77.76 / 52
p0 −2070 ± 348.3
pull
Entries 53
Mean 16.28
Std Dev 28.09

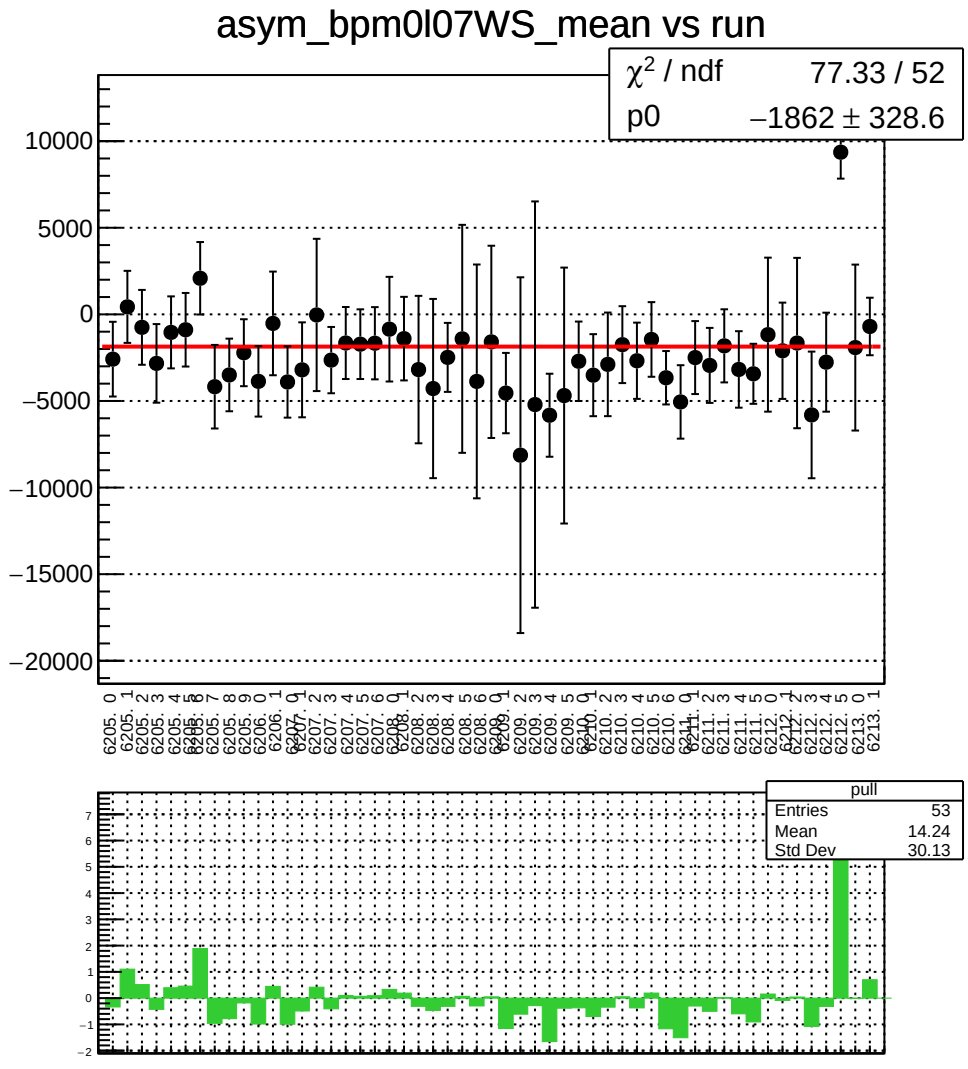

pull1D
Entries 53
Mean −0.0797
Std Dev 1.209

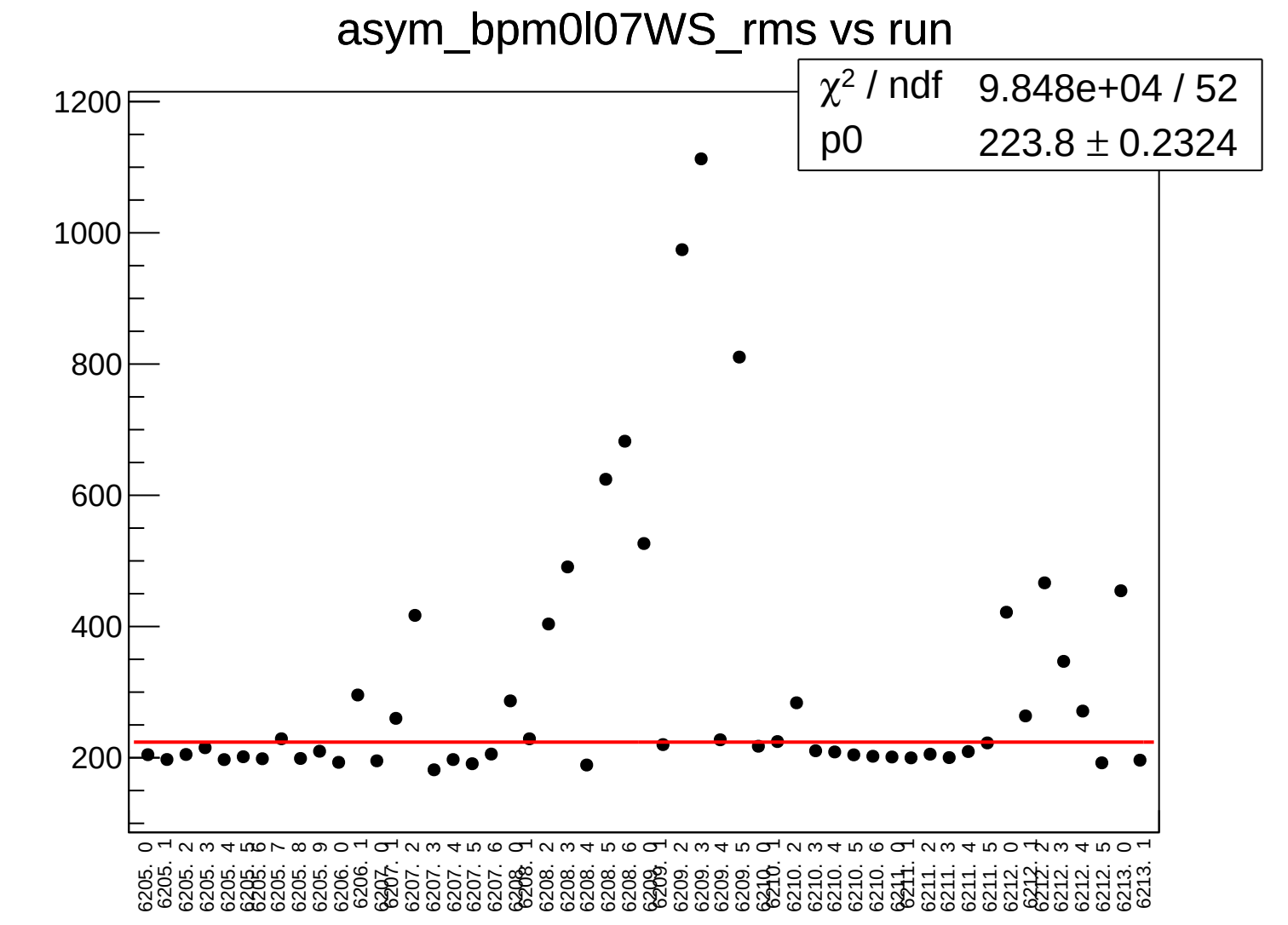

asym_bpm0l05WS_rms vs run
χ² / ndf 9.234e+04 / 52
p0 238 ± 0.2463
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

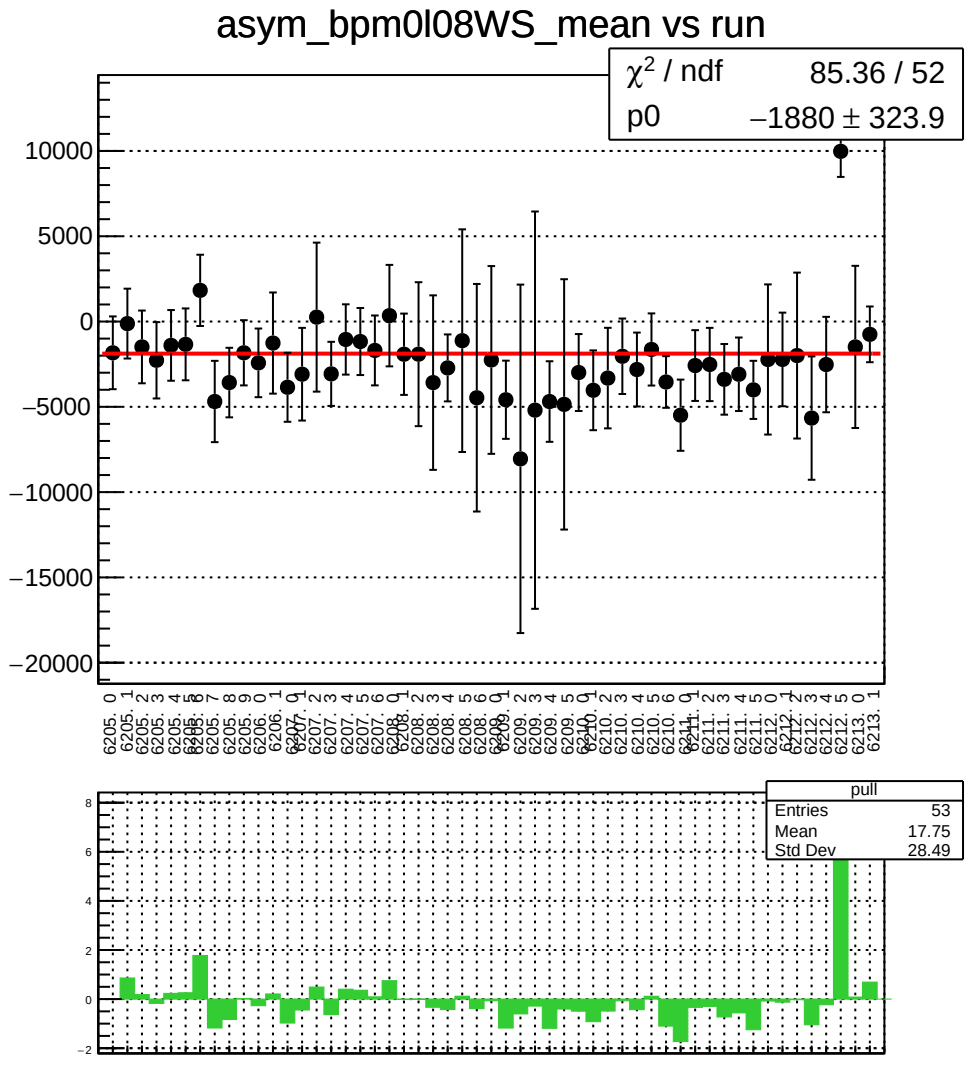

asym_bpm0l06WS_mean vs run
χ² / ndf 72.5 / 52
p0 −1961 ± 332.9
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 53
Mean 16.22
Std Dev 29.13

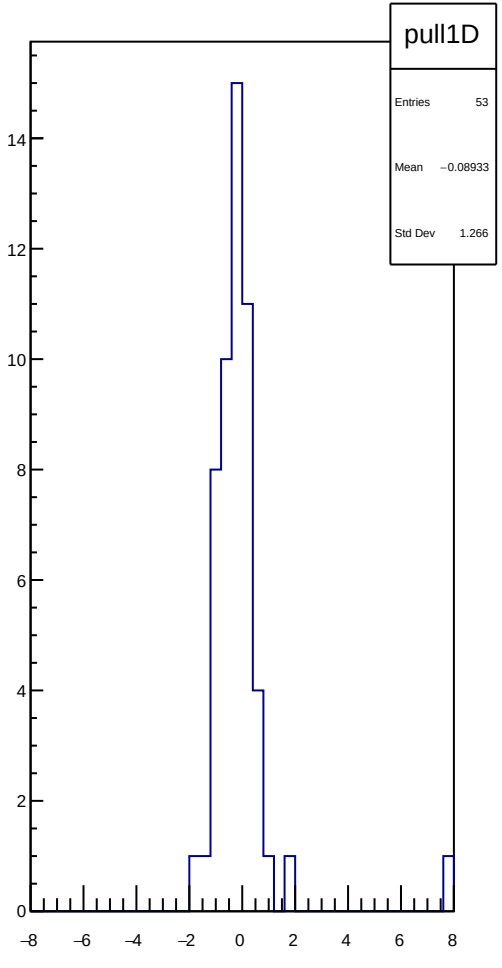

pull1D
Entries 53
Mean −0.08062
Std Dev 1.167

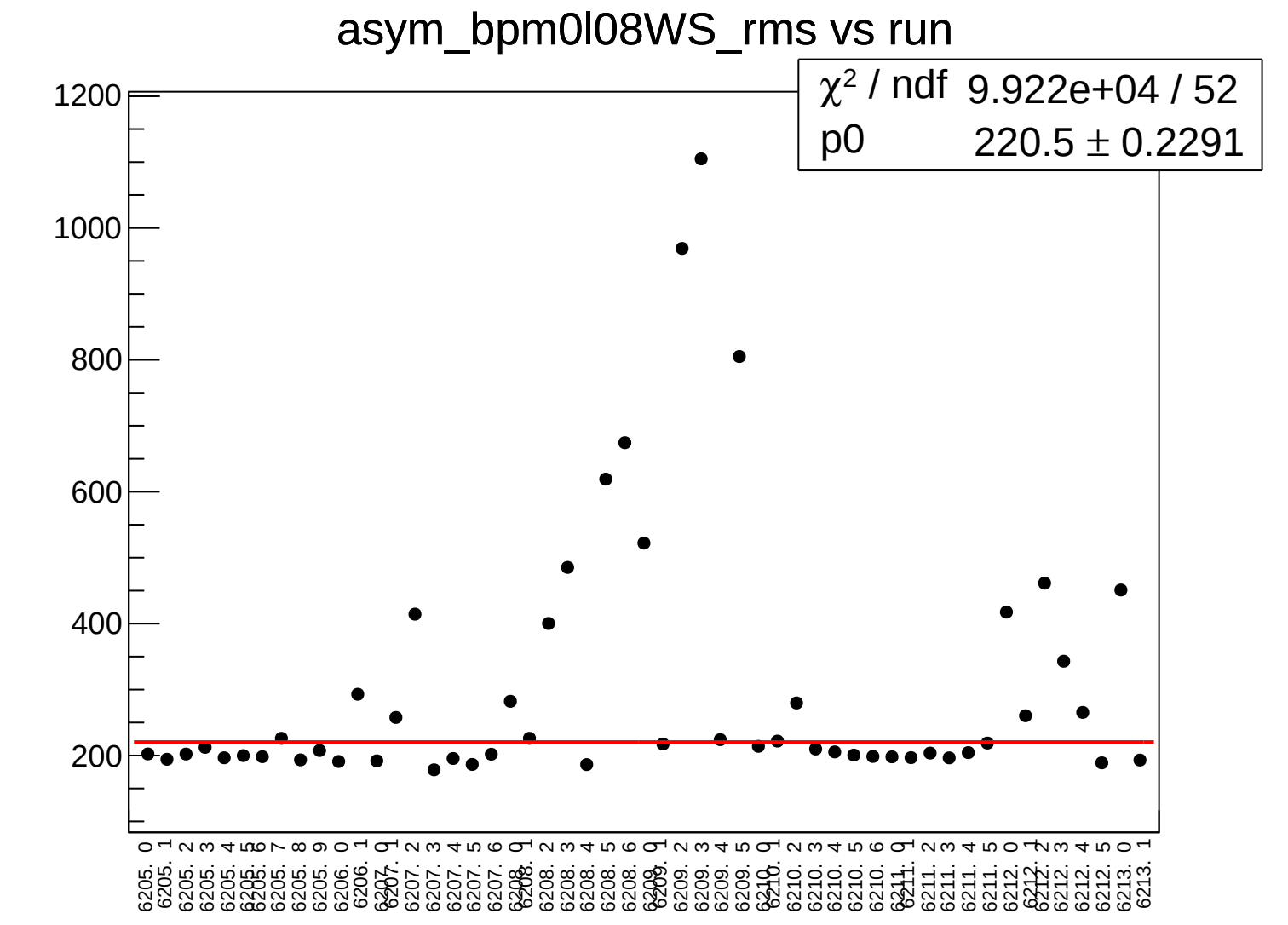

asym_bpm0l06WS_rms vs run
χ² / ndf 9.635e+04 / 52
p0 227 ± 0.2354
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

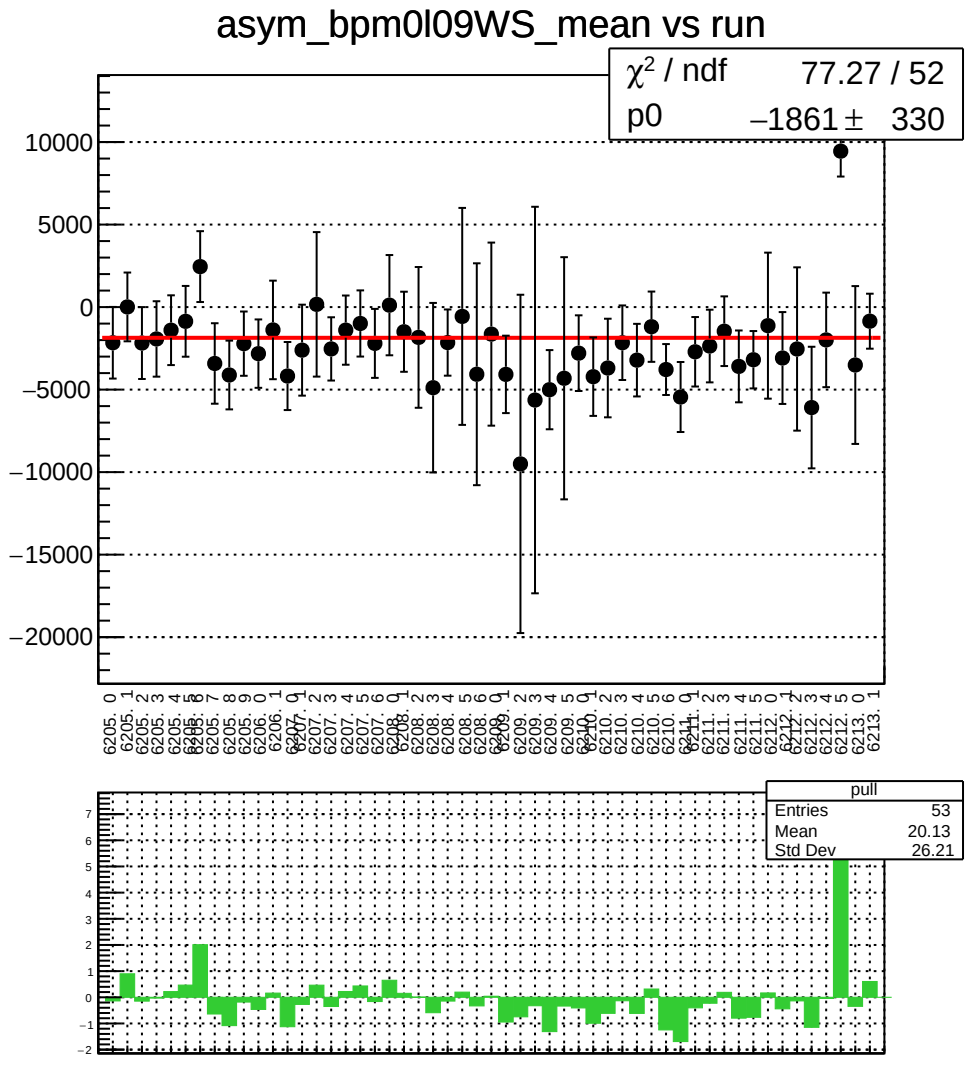

asym_bpm0l07WS_mean vs run
χ² / ndf 77.33 / 52
p0 −1862 ± 328.6
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 53
Mean 14.24
Std Dev 30.13
pull1D
Entries 53
Mean −0.08757
Std Dev 1.205
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

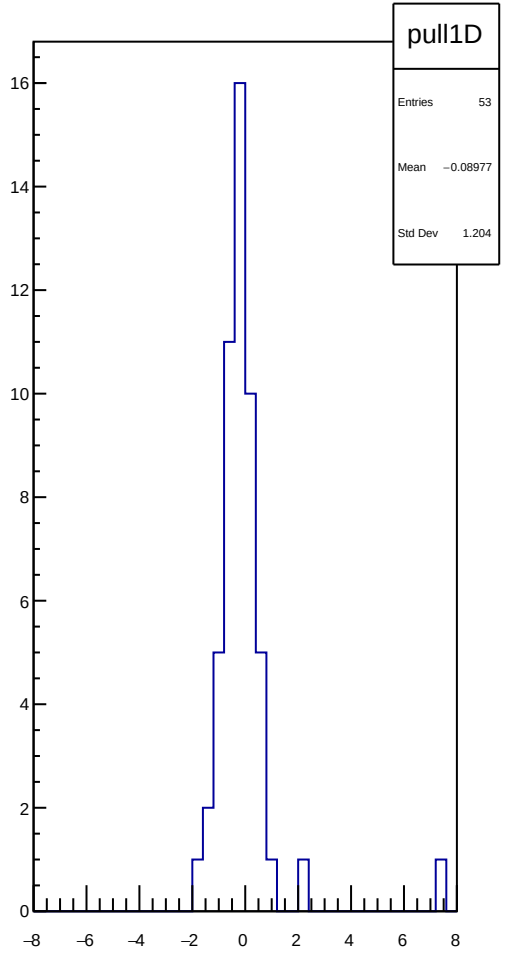

asym_bpm0l07WS_rms vs run
χ² / ndf 9.848e+04 / 52
p0 223.8 ± 0.2324
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

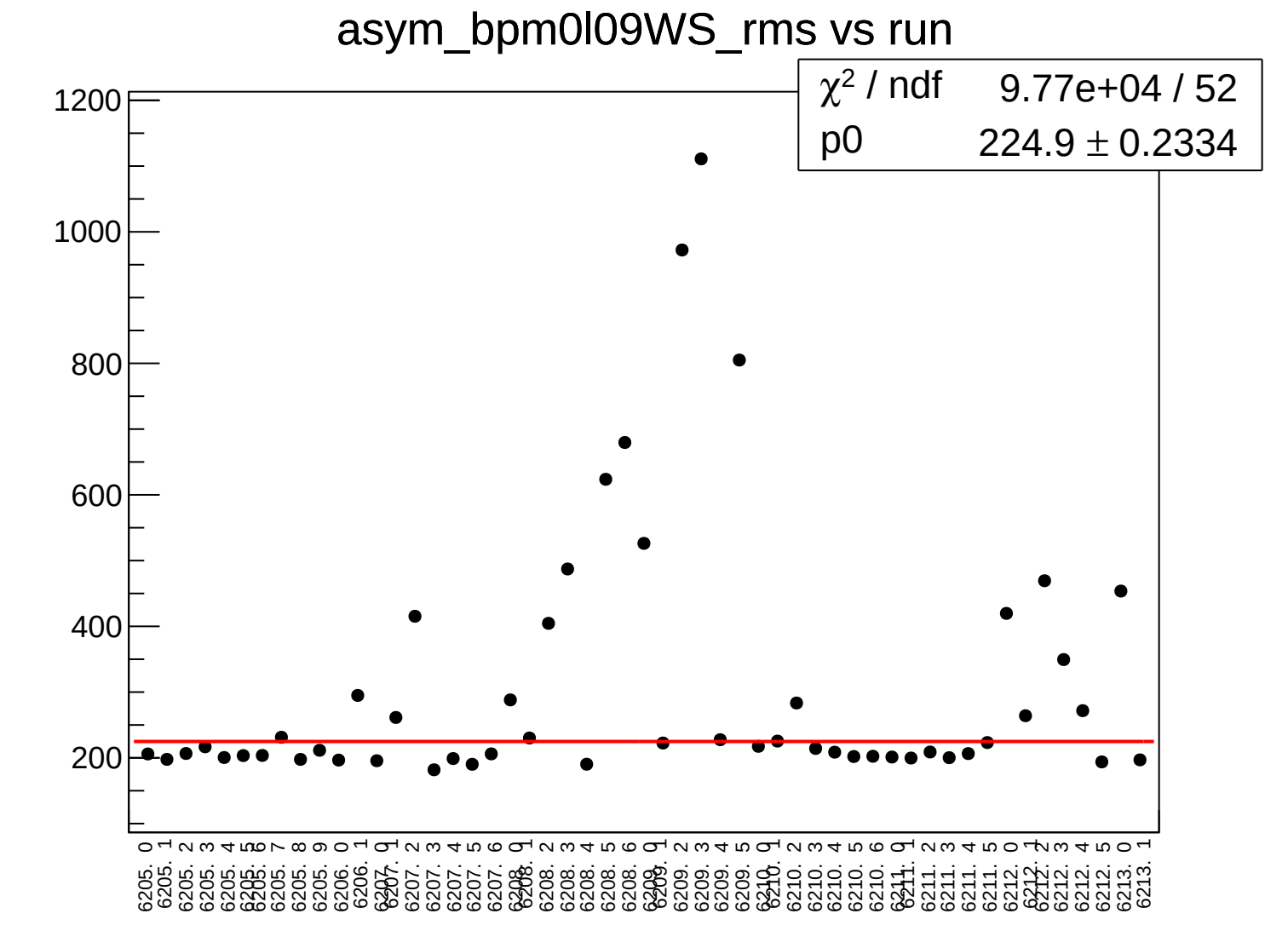

asym_bpm0l08WS_mean vs run
χ² / ndf 85.36 / 52
p0 −1880 ± 323.9
pull
Entries 53
Mean 17.75
Std Dev 28.49

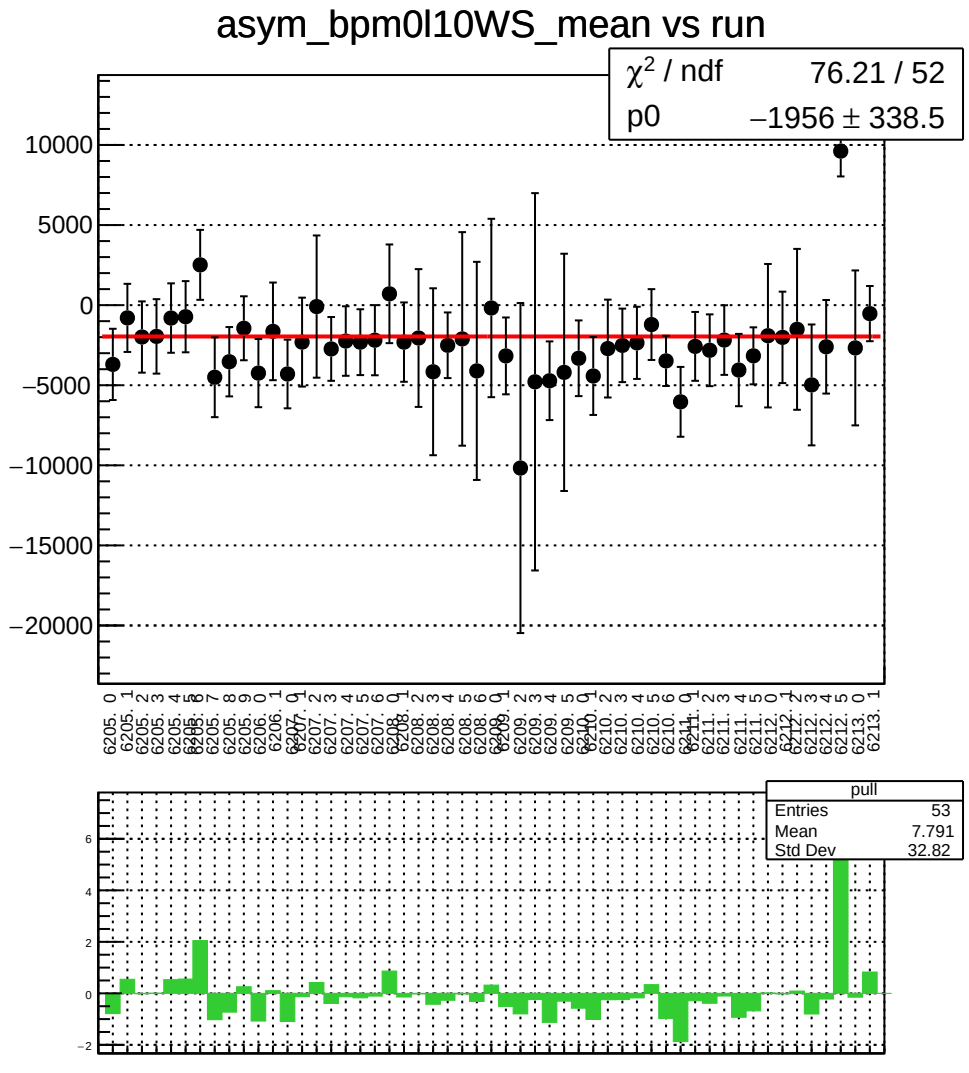

pull1D
Entries 53
Mean −0.08933
Std Dev 1.266

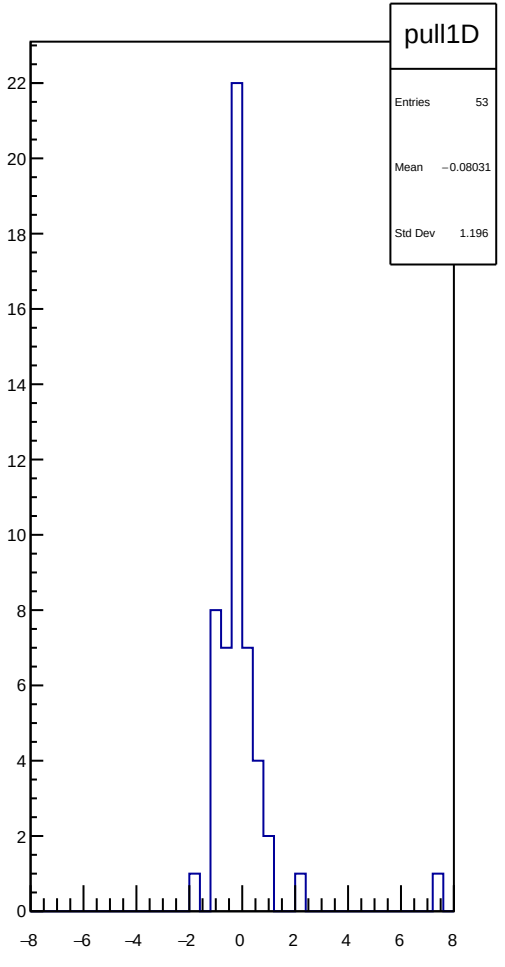

asym_bpm0l08WS_rms vs run
χ² / ndf 9.922e+04 / 52
p0 220.5 ± 0.2291
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

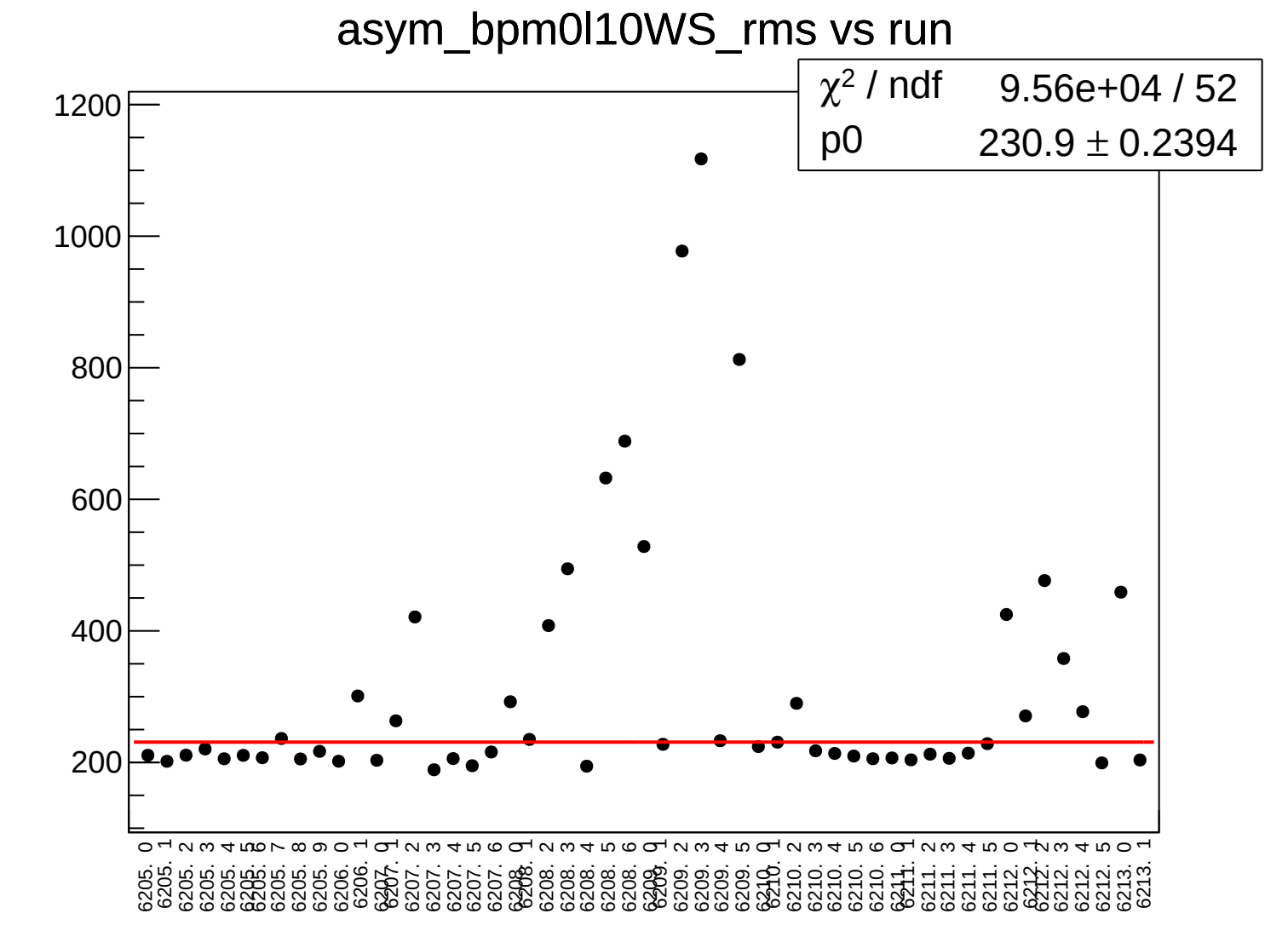

asym_bpm0l09WS_mean vs run
χ² / ndf 77.27 / 52
p0 −1861 ± 330
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 53
Mean 20.13
Std Dev 26.21
7
6
5
4
3
2
1
0
−1
−2

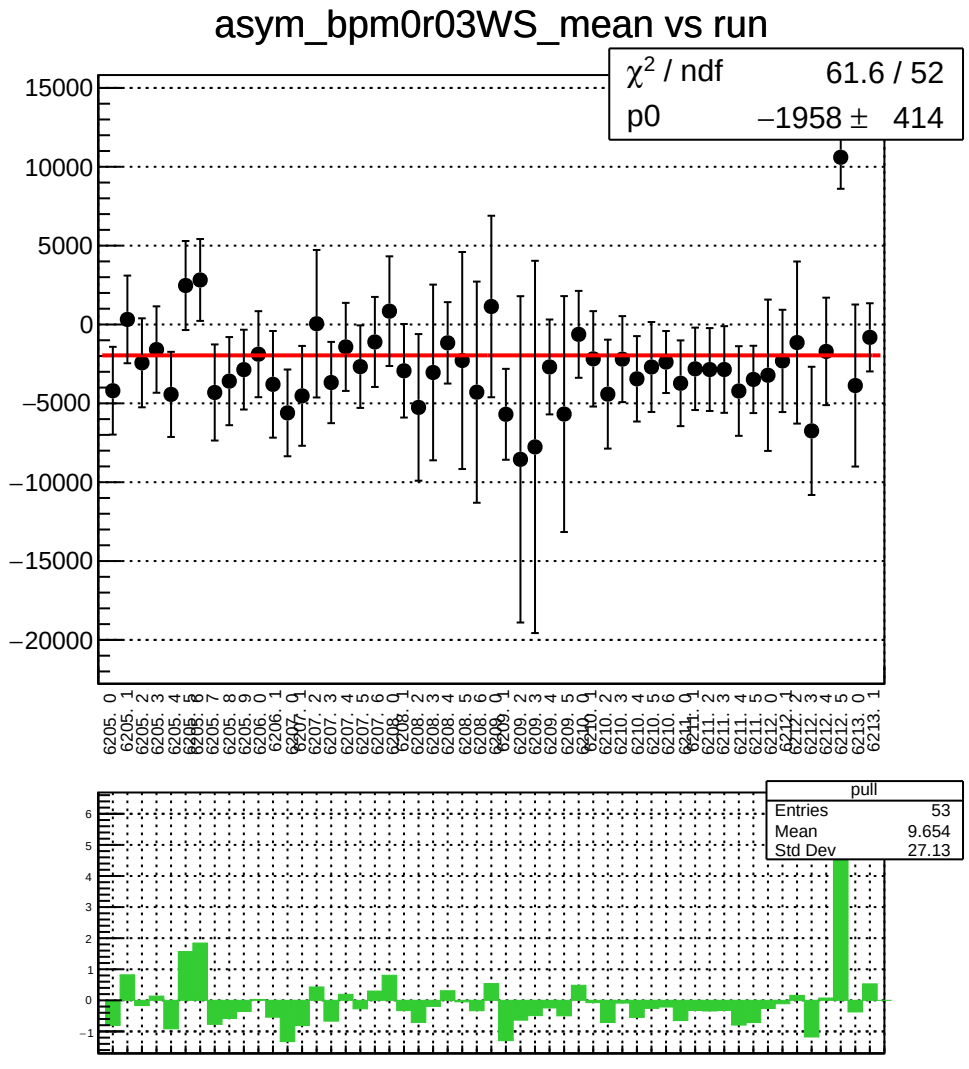

pull1D
Entries 53
Mean −0.08977
Std Dev 1.204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

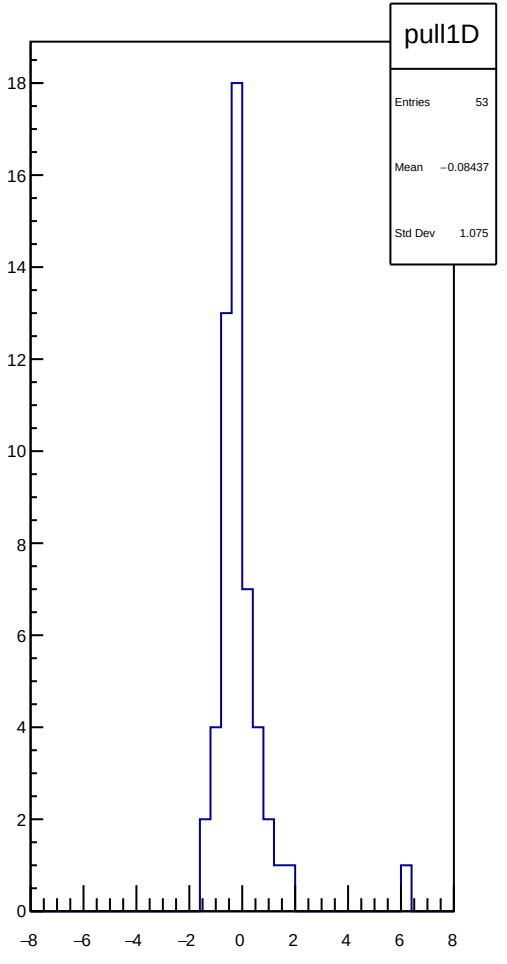

asym_bpm0l09WS_rms vs run
χ² / ndf 9.77e+04 / 52
p0 224.9 ± 0.2334
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

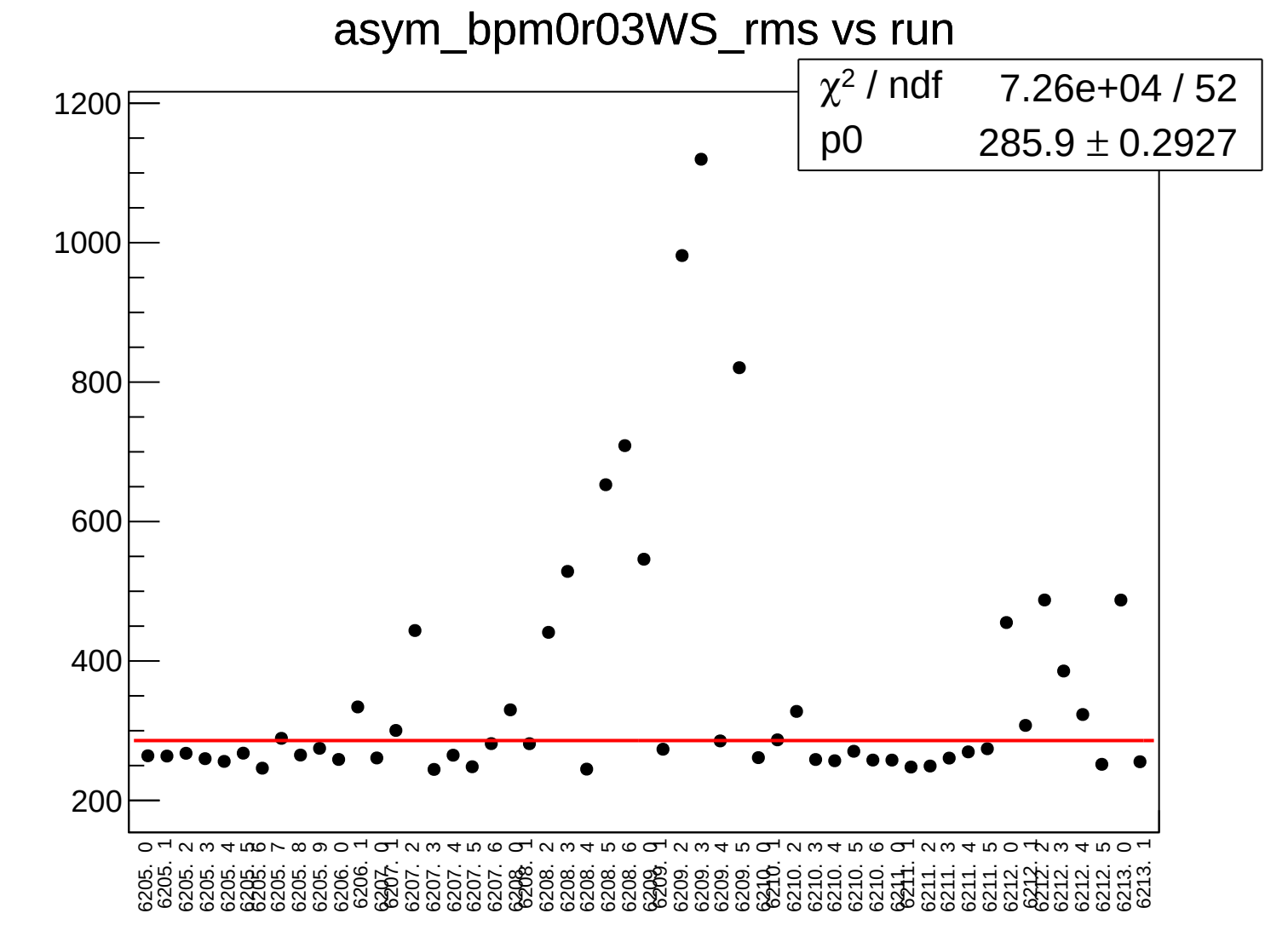

asym_bpm0l10WS_mean vs run
χ² / ndf 76.21 / 52
p0 −1956 ± 338.5
pull
Entries 53
Mean 7.791
Std Dev 32.82


pull1D
Entries 53
Mean −0.08031
Std Dev 1.196


asym_bpm0l10WS_rms vs run
χ² / ndf 9.56e+04 / 52
p0 230.9 ± 0.2394
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0r03WS_mean vs run
χ² / ndf 61.6 / 52
p0 −1958 ± 414
pull
Entries 53
Mean 9.654
Std Dev 27.13


pull1D
Entries 53
Mean −0.08437
Std Dev 1.075


asym_bpm0r03WS_rms vs run
χ² / ndf 7.26e+04 / 52
p0 285.9 ± 0.2927
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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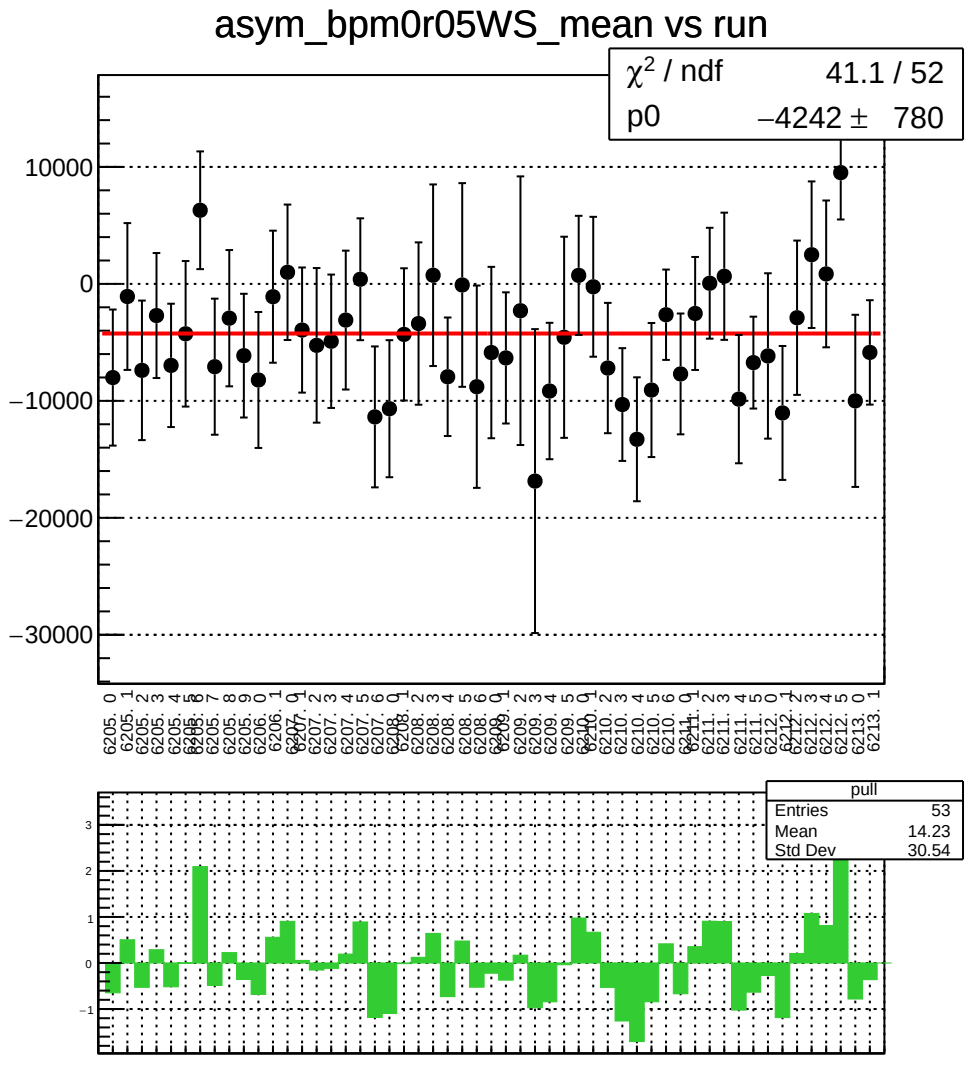
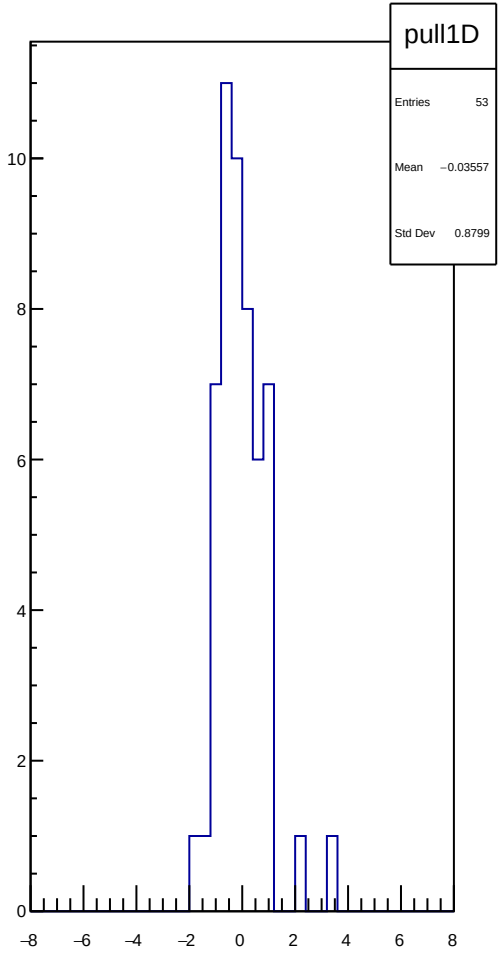
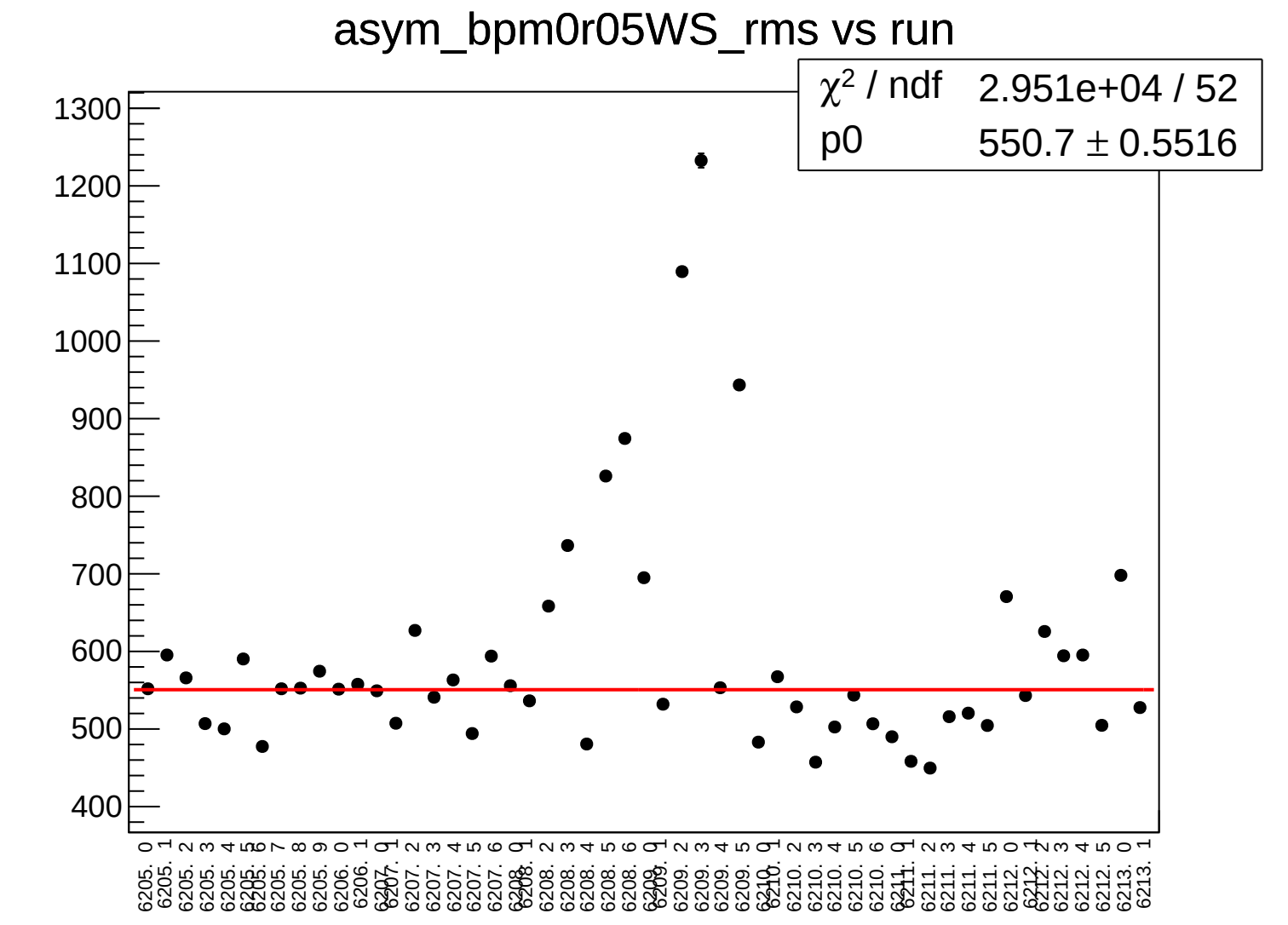
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0r05WS_mean vs run
χ^2 / ndf 41.1 / 52
p0 −4242 ± 780
10000
0
−10000
−20000
−30000
pull
Entries 53
Mean 14.23
Std Dev 30.54
3
2
1
0
−1


pull1D
Entries 53
Mean −0.03557
Std Dev 0.8799
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r05WS_rms vs run
χ² / ndf 2.951e+04 / 52
p0 550.7 ± 0.5516
1300
1200
1100
1000
900
800
700
600
500
400
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
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6212. 0
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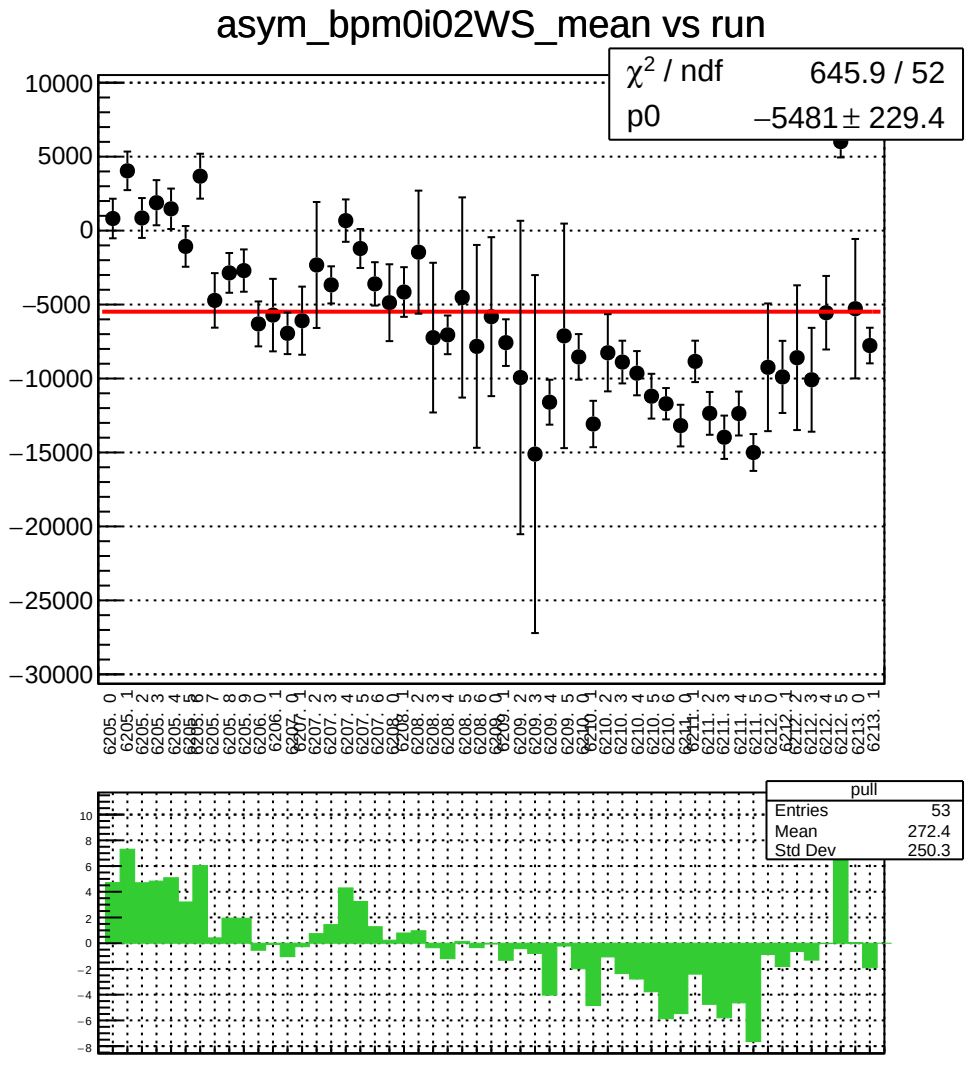
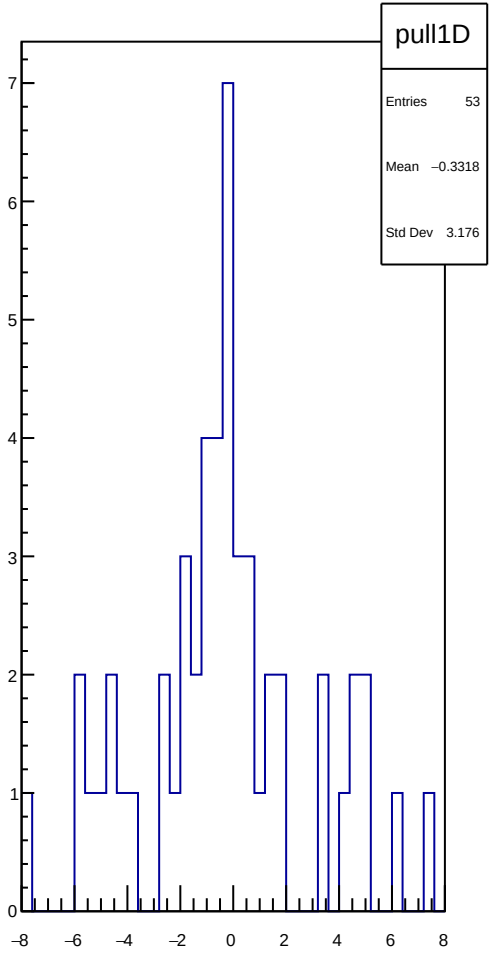
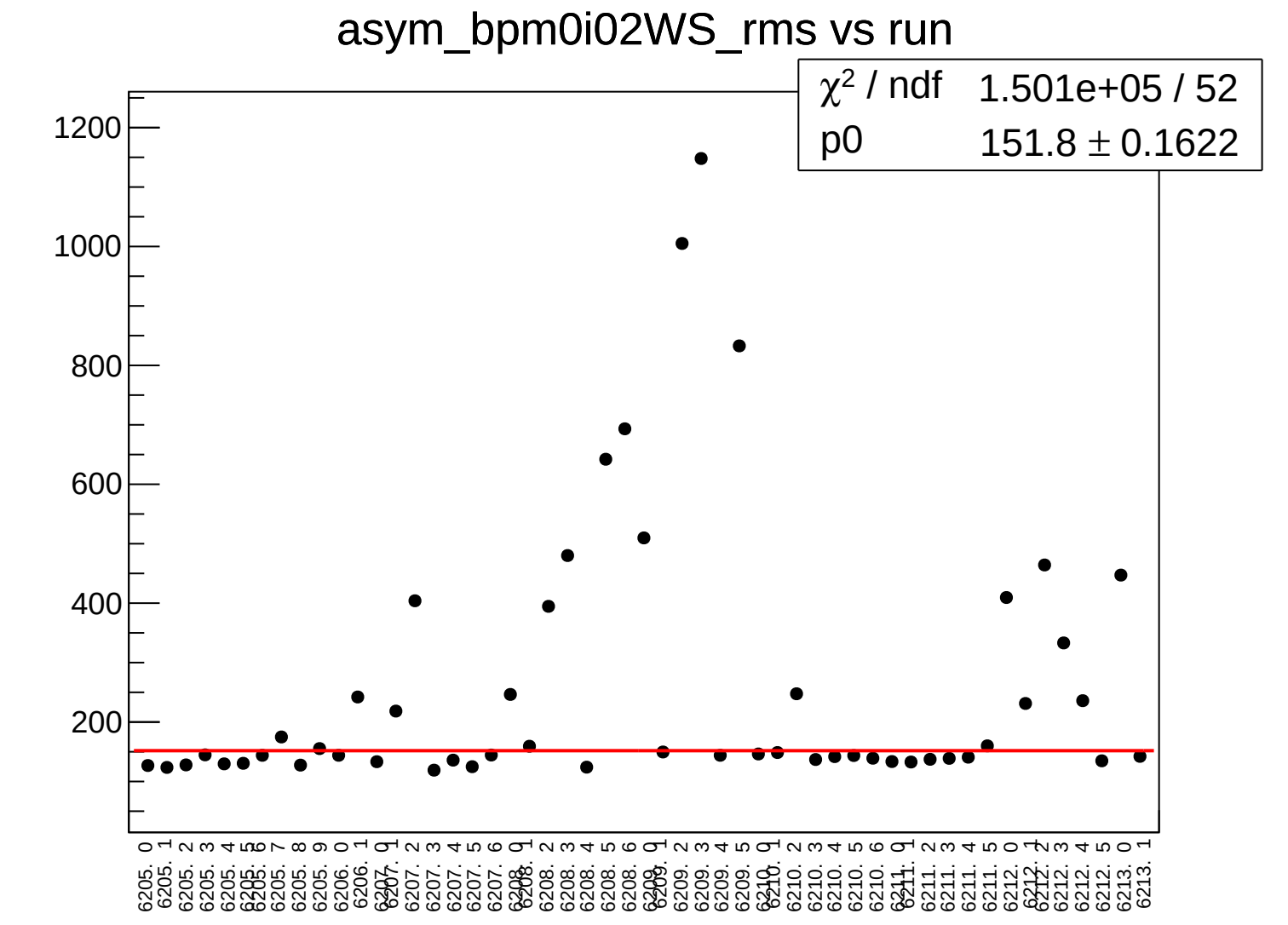
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


asym_bpm0i02WS_mean vs run
χ² / ndf 645.9 / 52
p0 −5481 ± 229.4
pull
Entries 53
Mean 272.4
Std Dev 250.3


pull1D
Entries 53
Mean −0.3318
Std Dev 3.176


asym_bpm0i02WS_rms vs run
χ² / ndf 1.501e+05 / 52
p0 151.8 ± 0.1622
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
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6209. 0
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6209. 3
6209. 4
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6210. 0
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6211. 4
6211. 5
6212. 0
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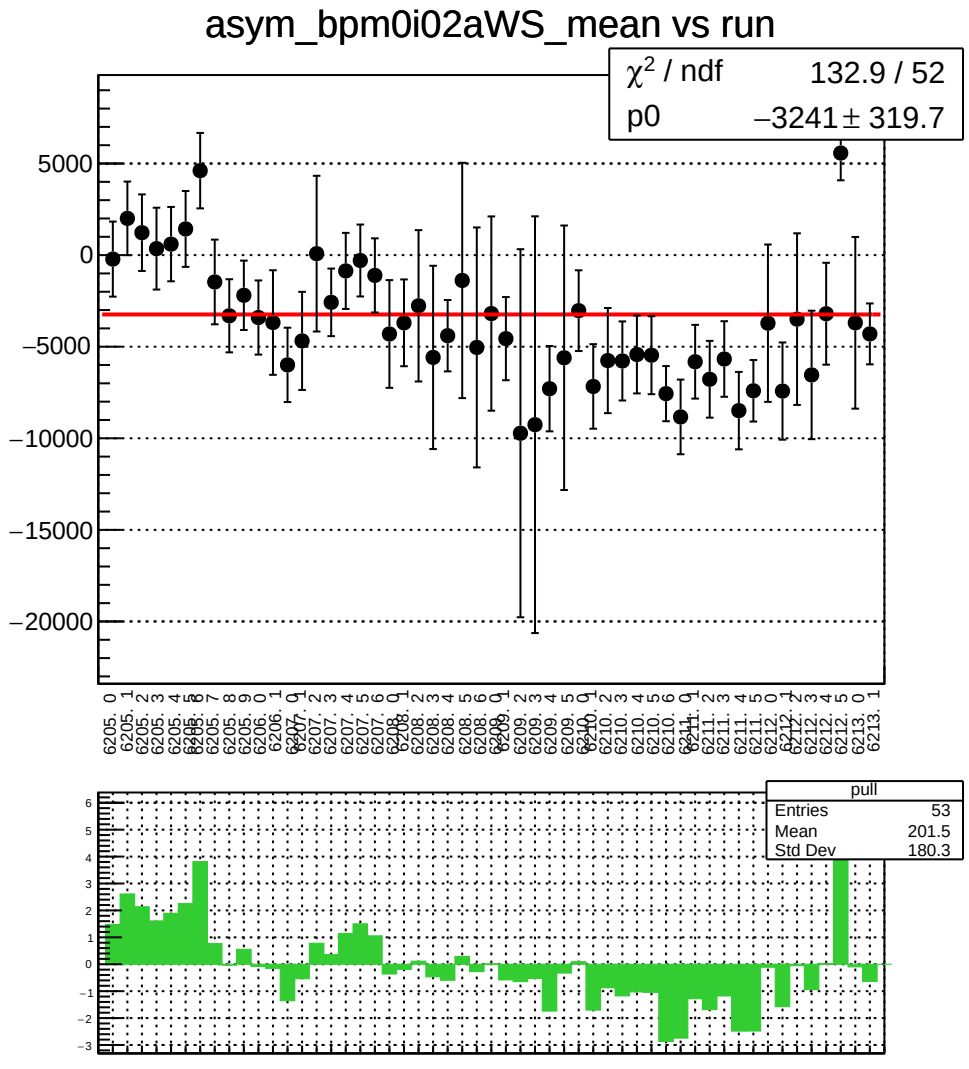
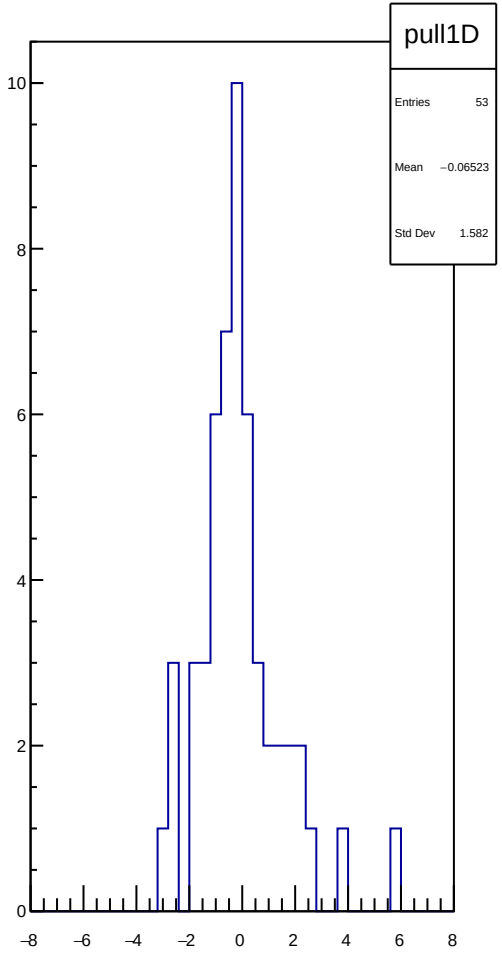
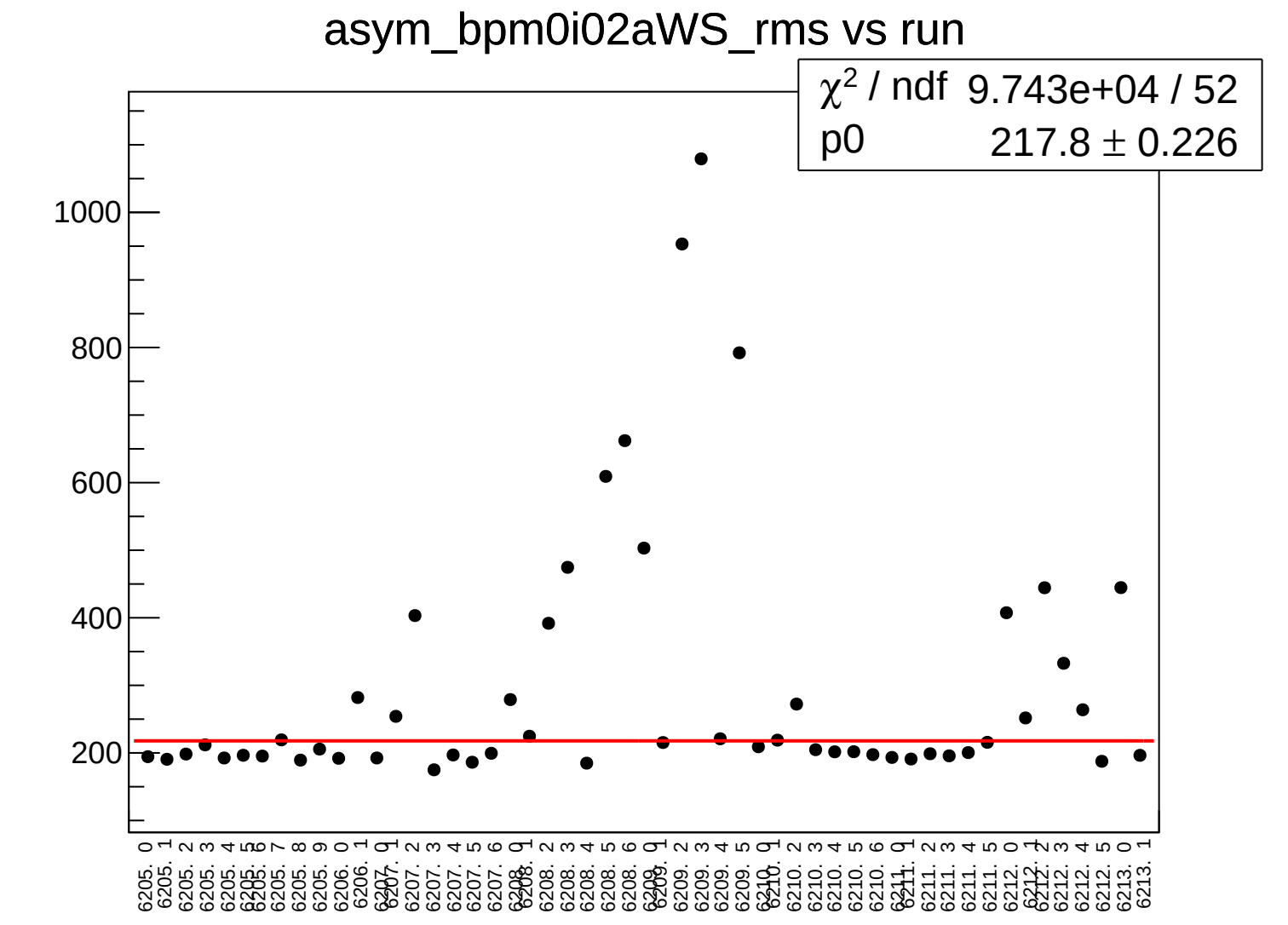
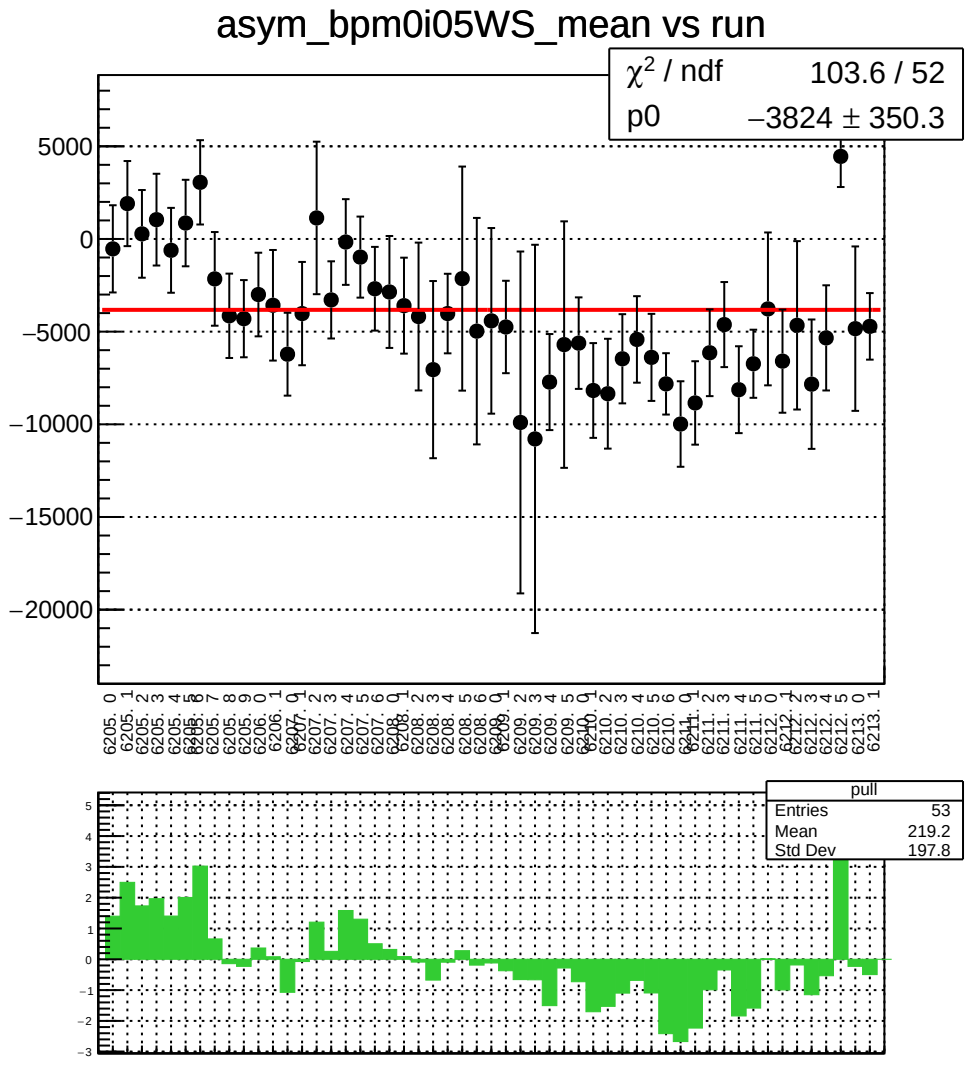
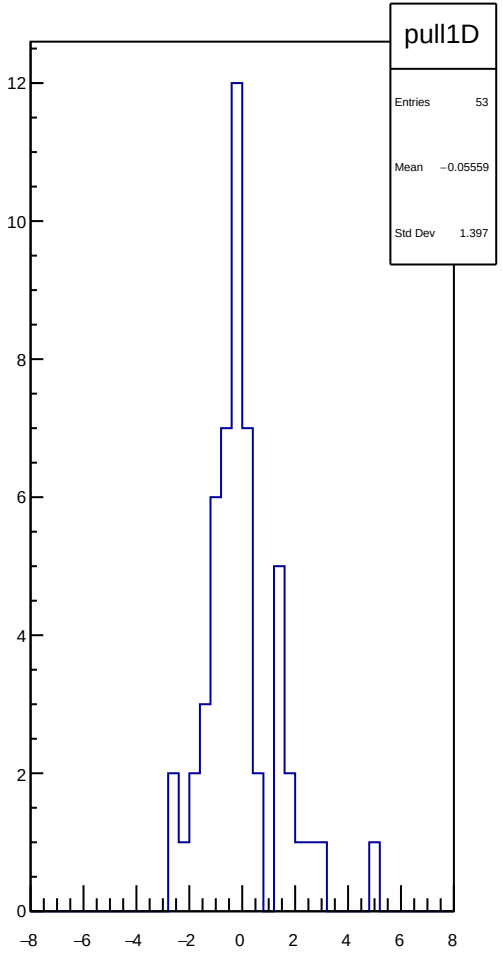
6212. 5
6213. 0
6213. 1

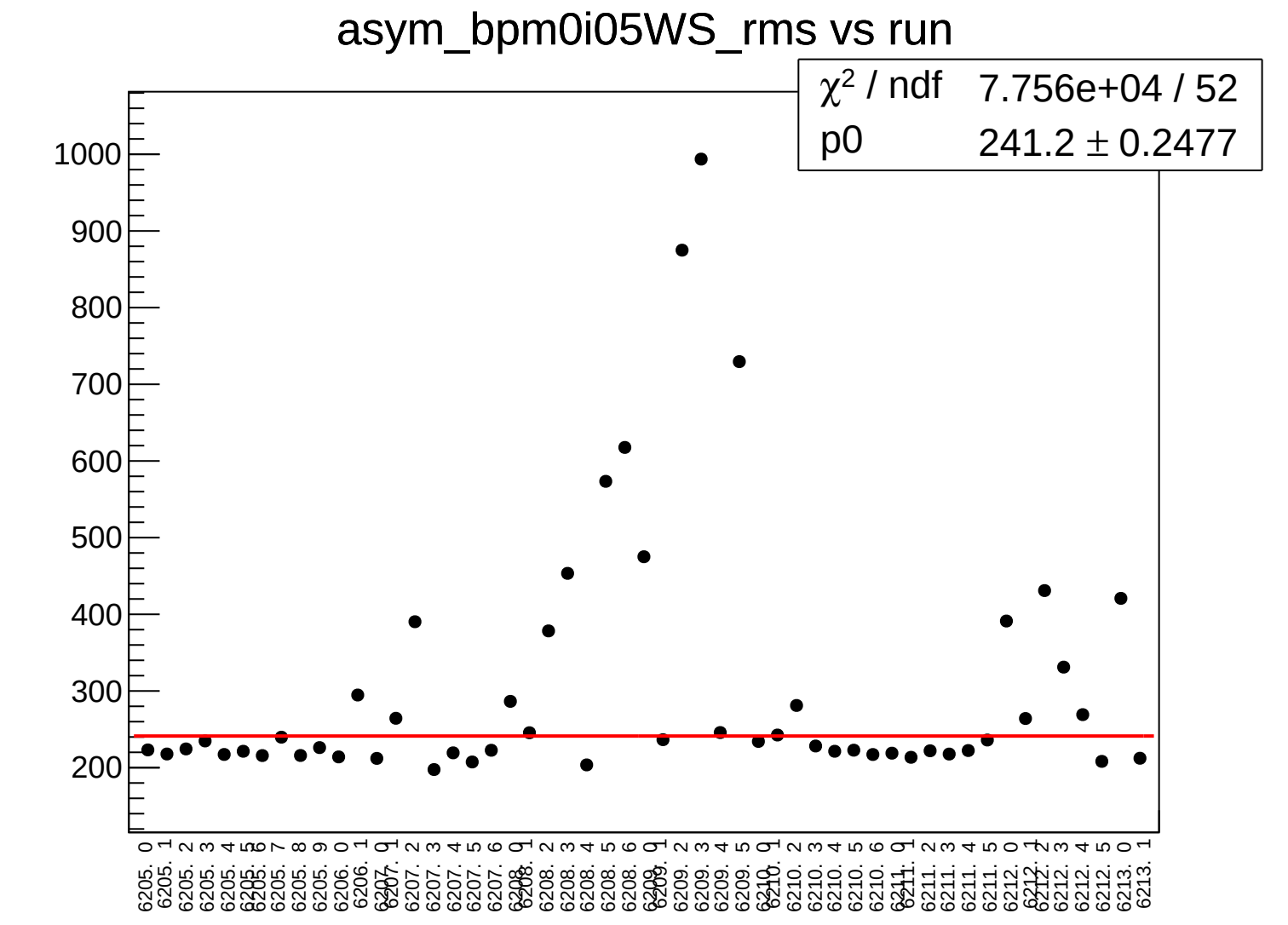

asym_bpm0i02aWS_mean vs run
χ² / ndf 132.9 / 52
p0 −3241 ± 319.7
pull
Entries 53
Mean 201.5
Std Dev 180.3

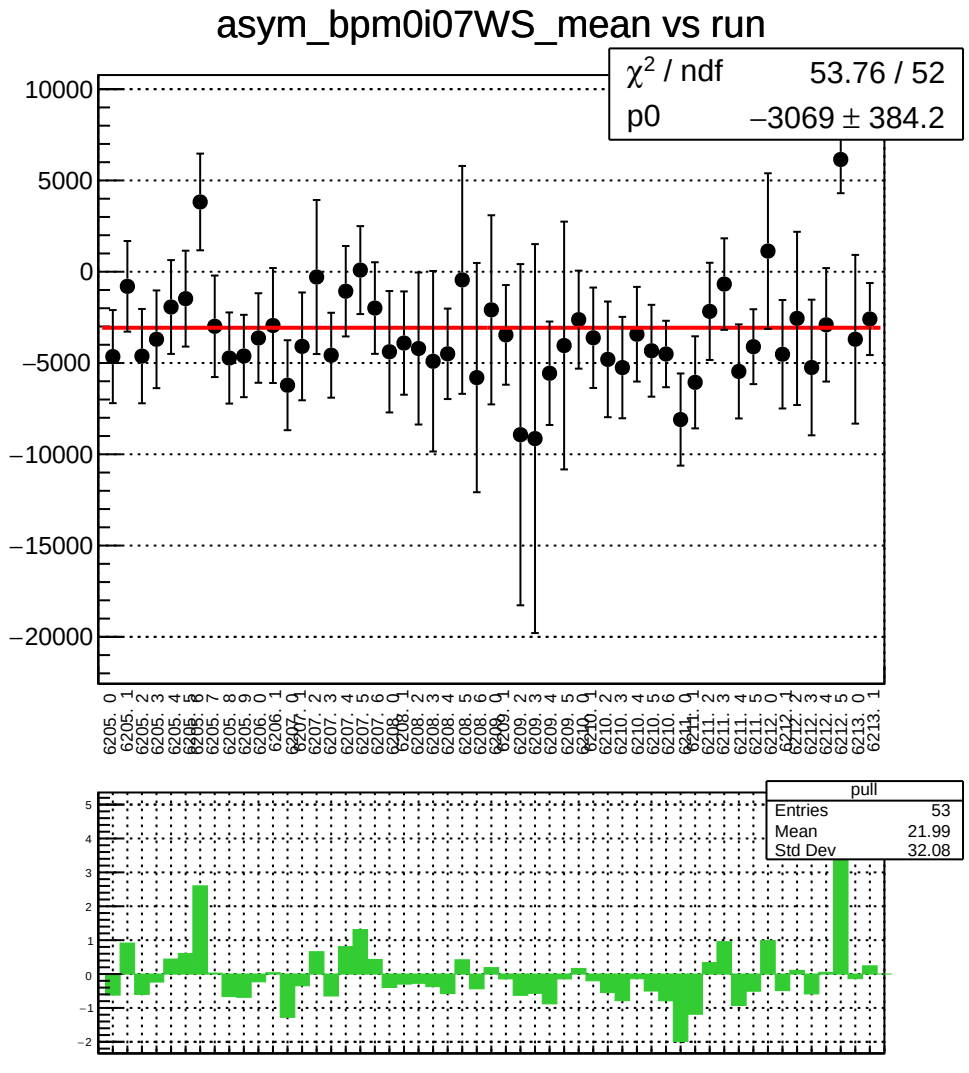

pull1D
Entries 53
Mean −0.06523
Std Dev 1.582

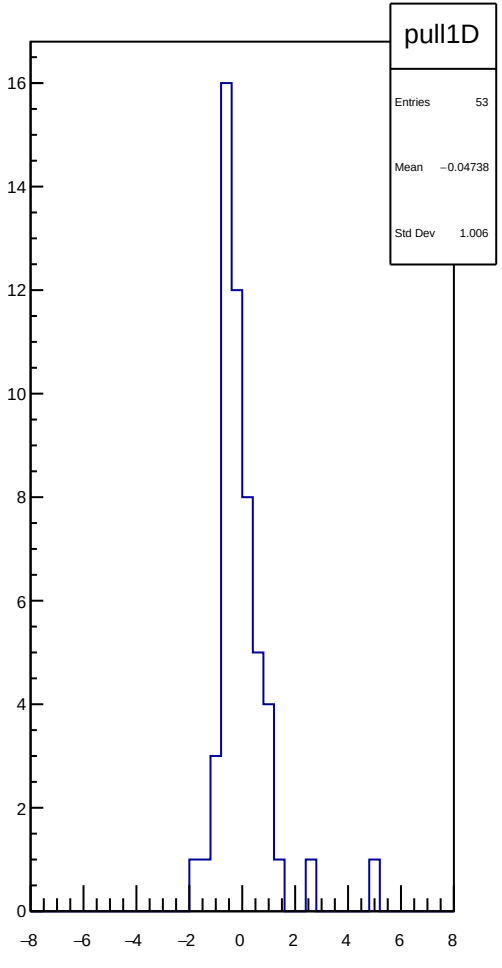

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 9.743e+04 / 52
p0 217.8 ± 0.226
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

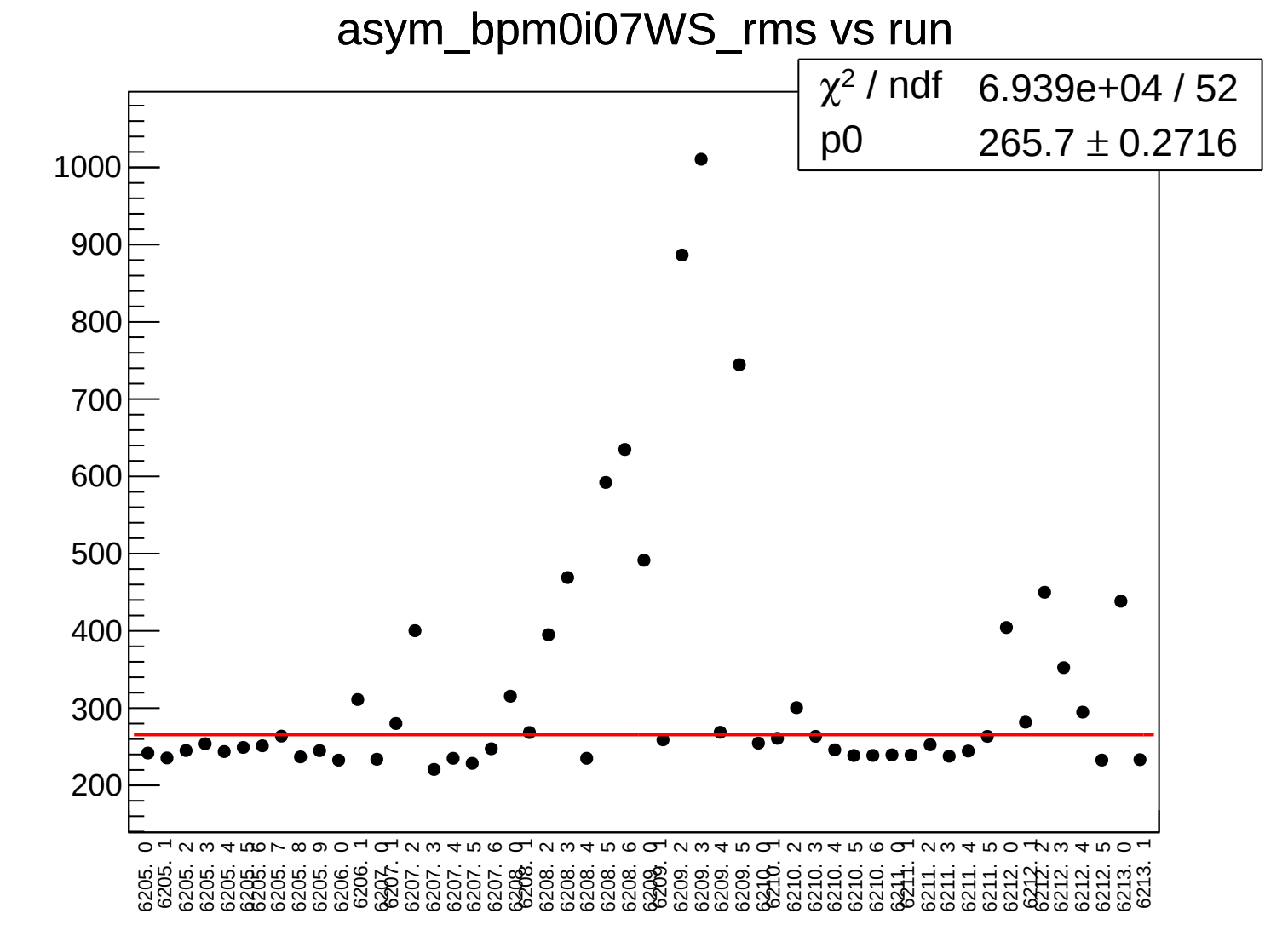

asym_bpm0i05WS_mean vs run
χ² / ndf 103.6 / 52
p0 −3824 ± 350.3
5000
0
−5000
−10000
−15000
−20000
pull
Entries 53
Mean 219.2
Std Dev 197.8

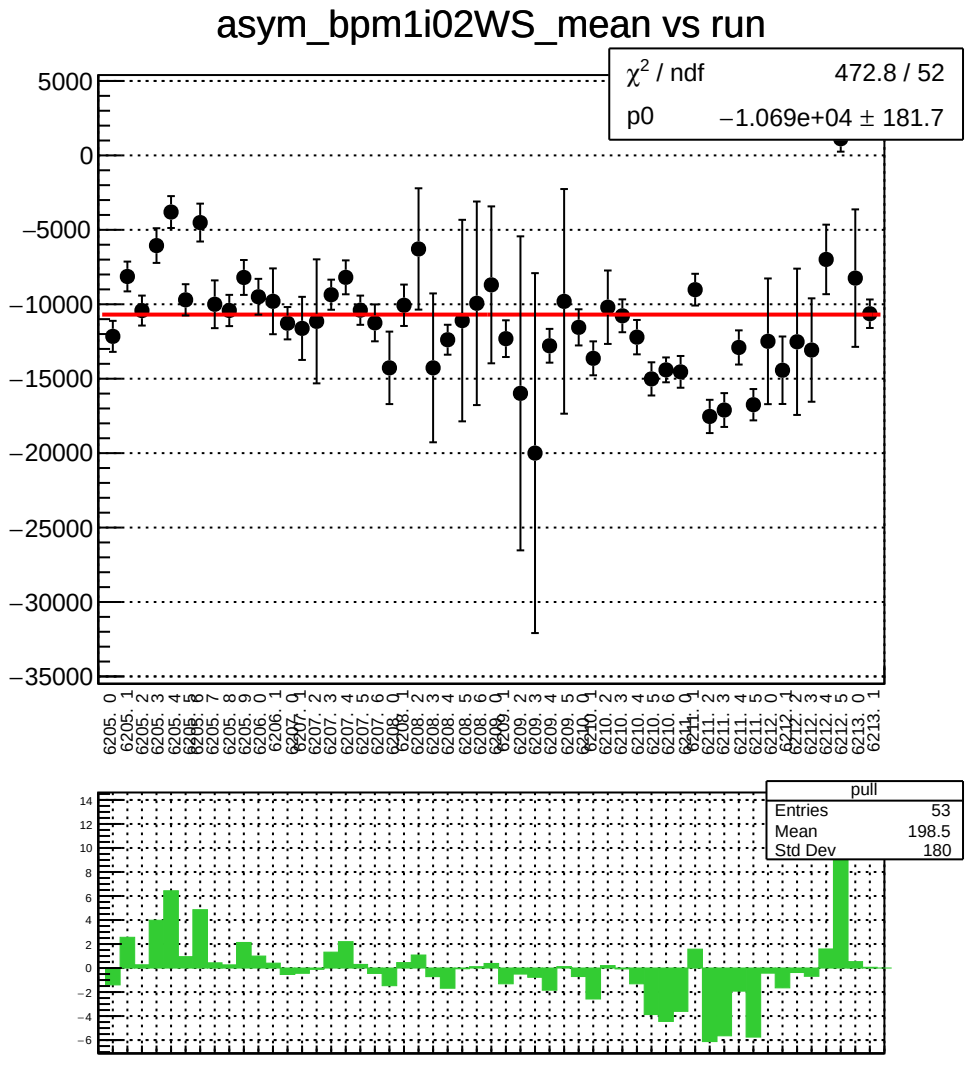

pull1D
Entries 53
Mean −0.05559
Std Dev 1.397

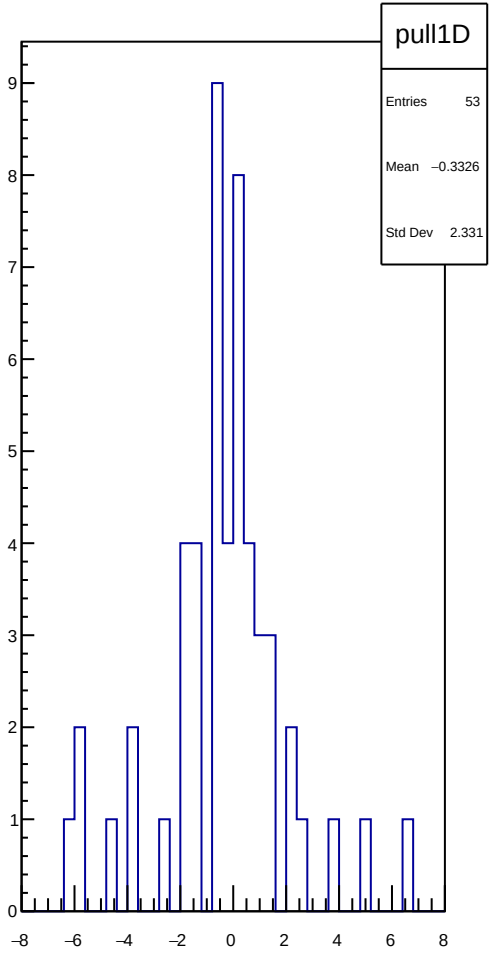

asym_bpm0i05WS_rms vs run
χ² / ndf 7.756e+04 / 52
p0 241.2 ± 0.2477
1000
900
800
700
600
500
400
300
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

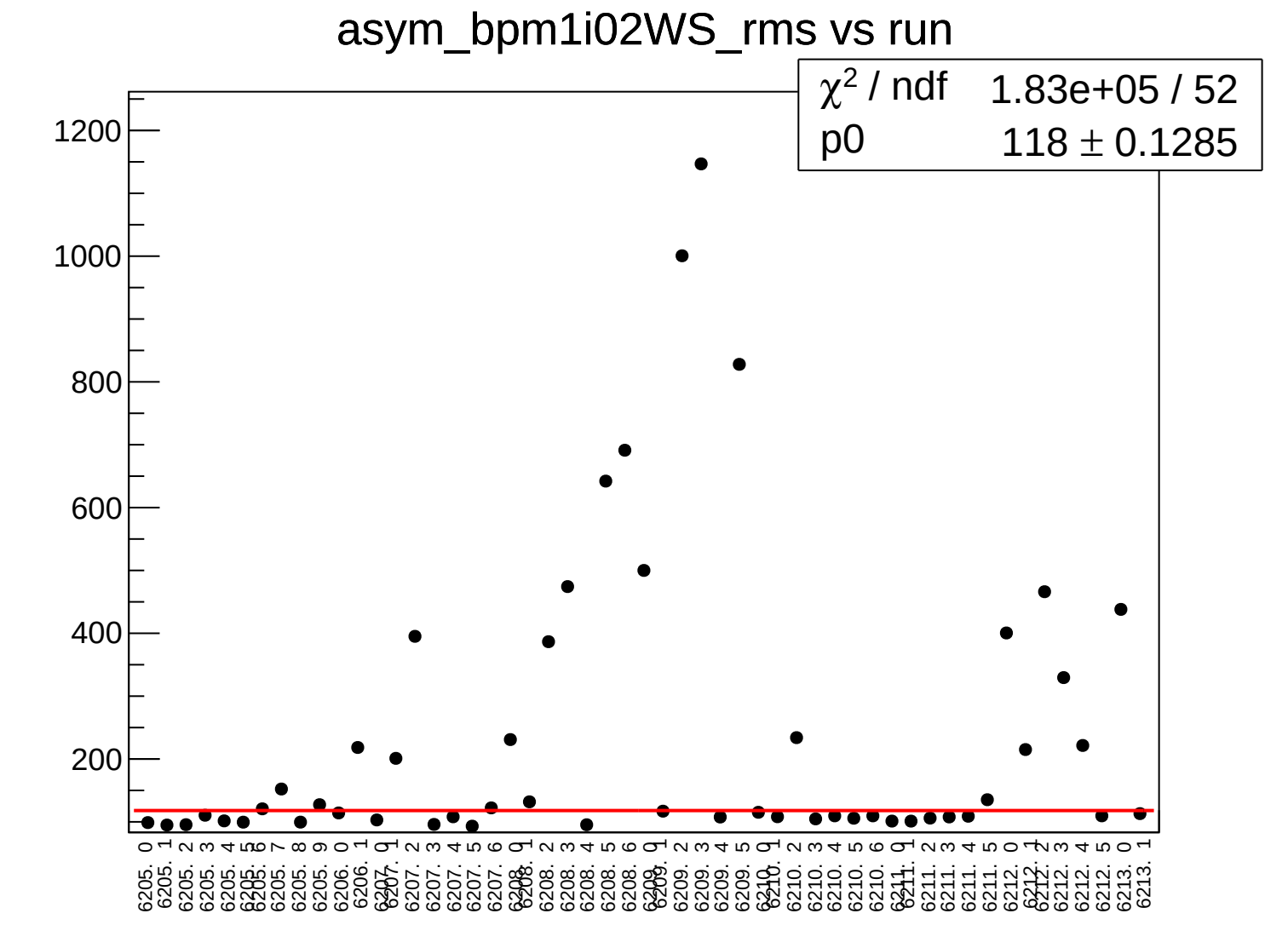

asym_bpm0i07WS_mean vs run
χ² / ndf 53.76 / 52
p0 −3069 ± 384.2
pull
Entries 53
Mean 21.99
Std Dev 32.08

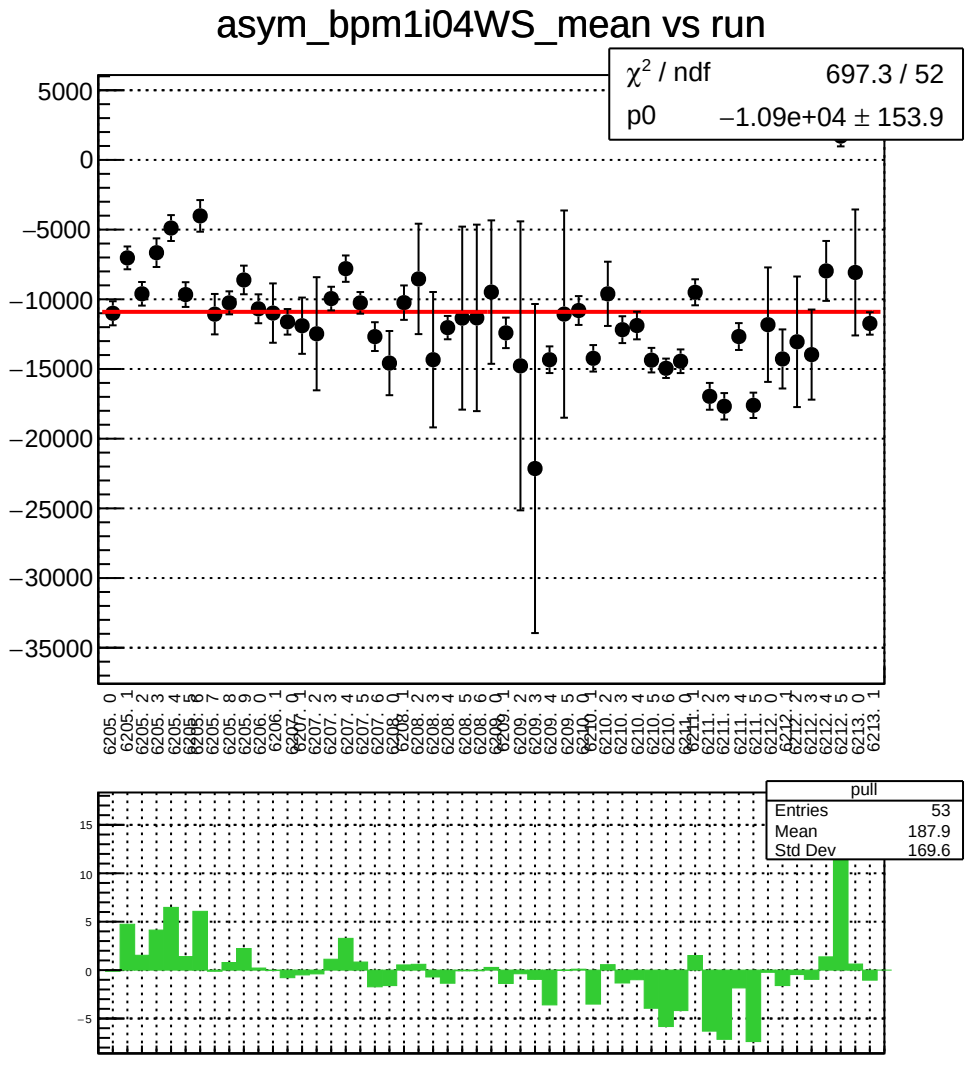

pull1D
Entries 53
Mean −0.04738
Std Dev 1.006

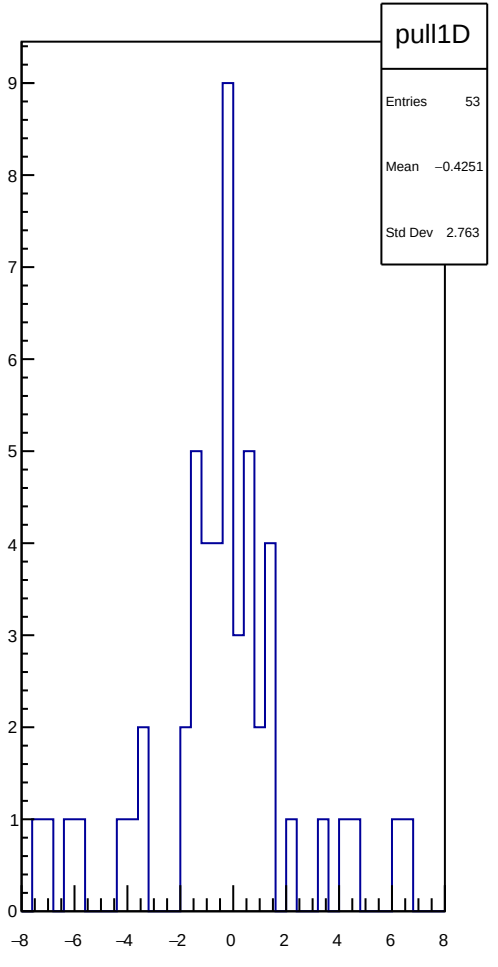

asym_bpm0i07WS_rms vs run
χ² / ndf 6.939e+04 / 52
p0 265.7 ± 0.2716
1000
900
800
700
600
500
400
300
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

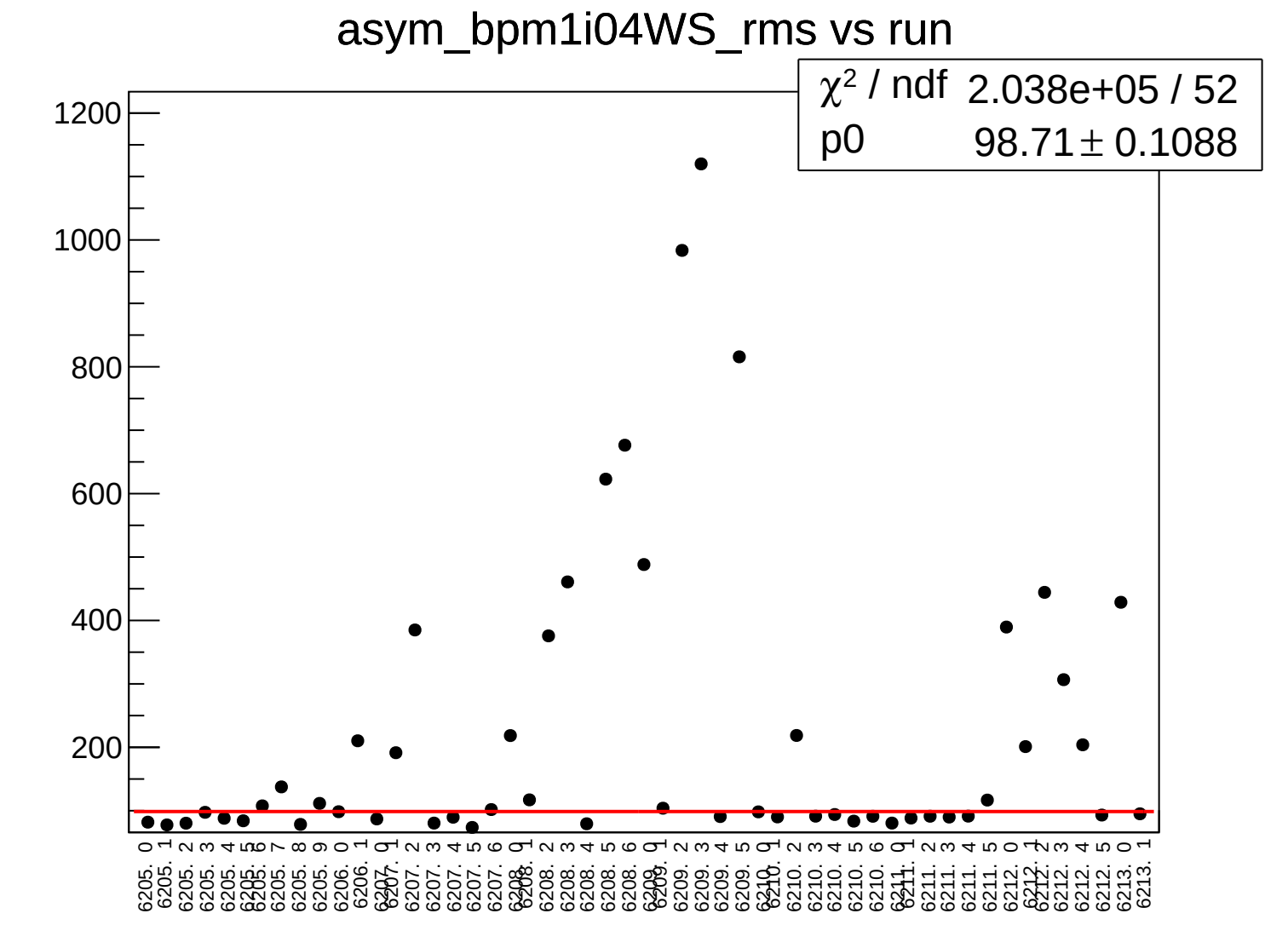

asym_bpm1i02WS_mean vs run
χ² / ndf 472.8 / 52
p0 −1.069e+04 ± 181.7
pull
Entries 53
Mean 198.5
Std Dev 180

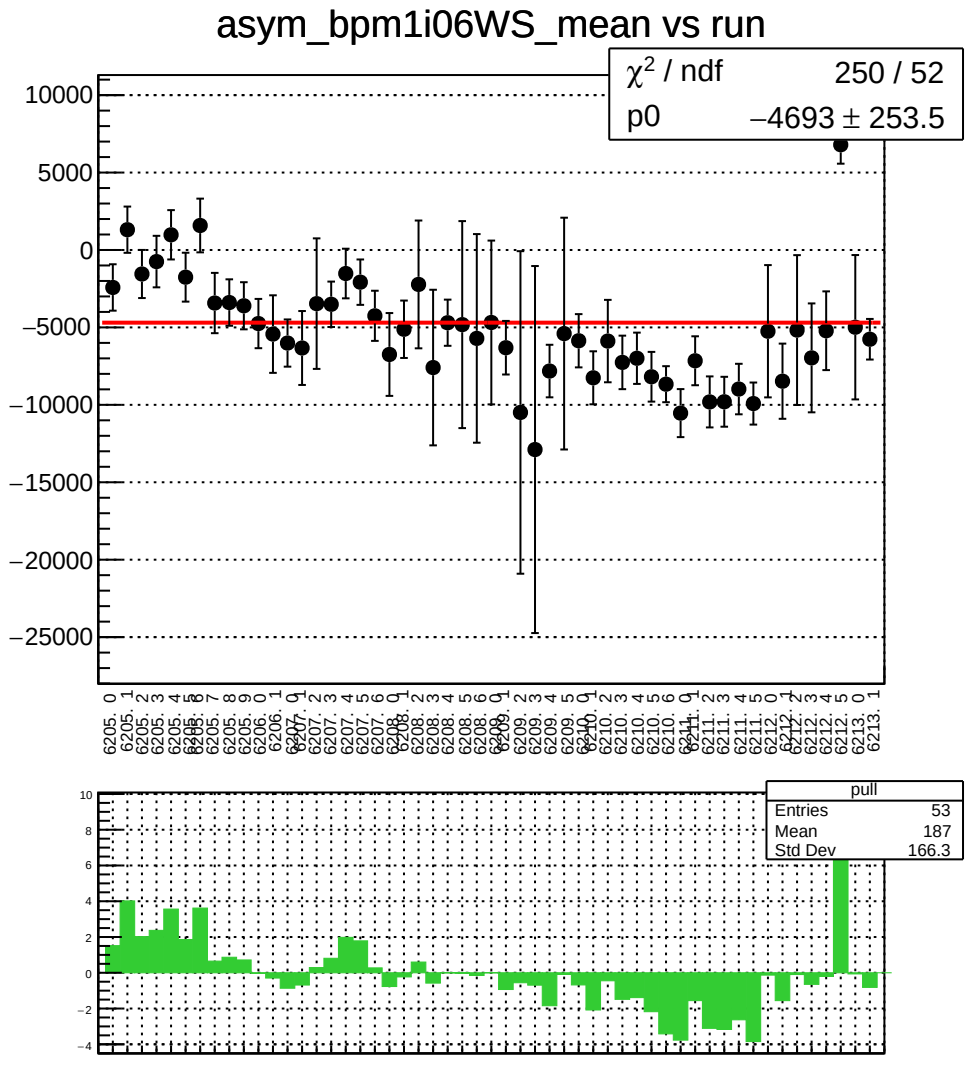

pull1D
Entries 53
Mean −0.3326
Std Dev 2.331

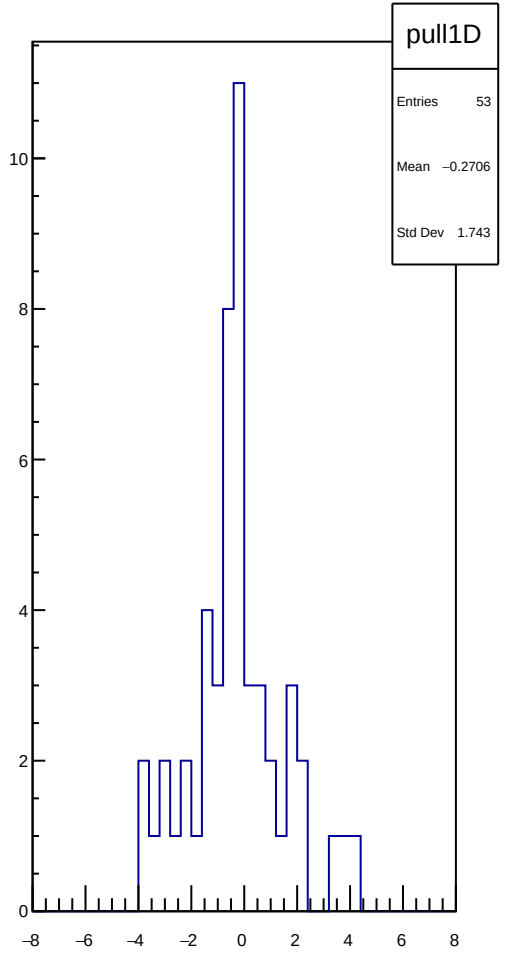

asym_bpm1i02WS_rms vs run
χ² / ndf 1.83e+05 / 52
p0 118 ± 0.1285
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

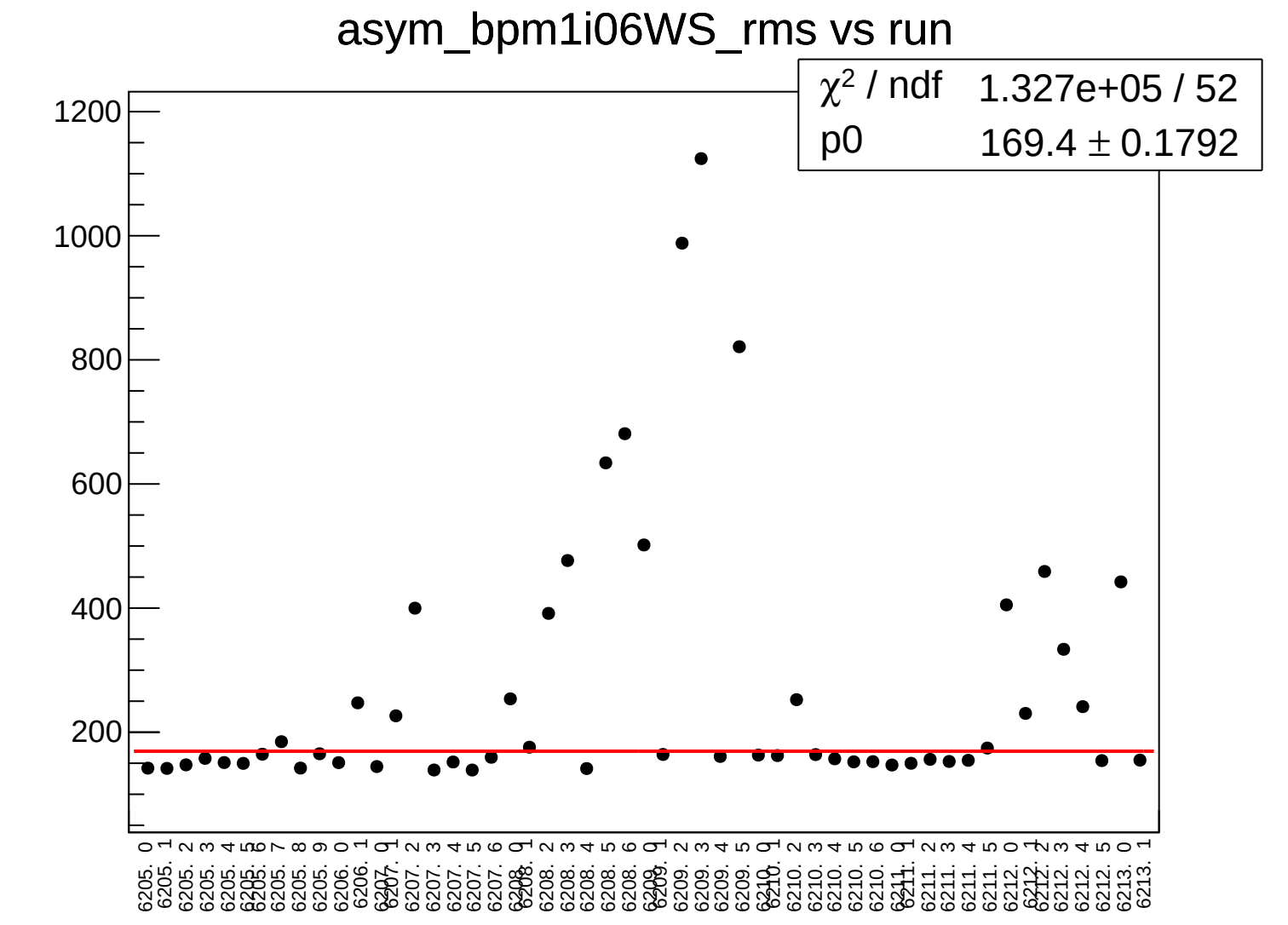

asym_bpm1i04WS_mean vs run
χ² / ndf 697.3 / 52
p0 −1.09e+04 ± 153.9
pull
Entries 53
Mean 187.9
Std Dev 169.6

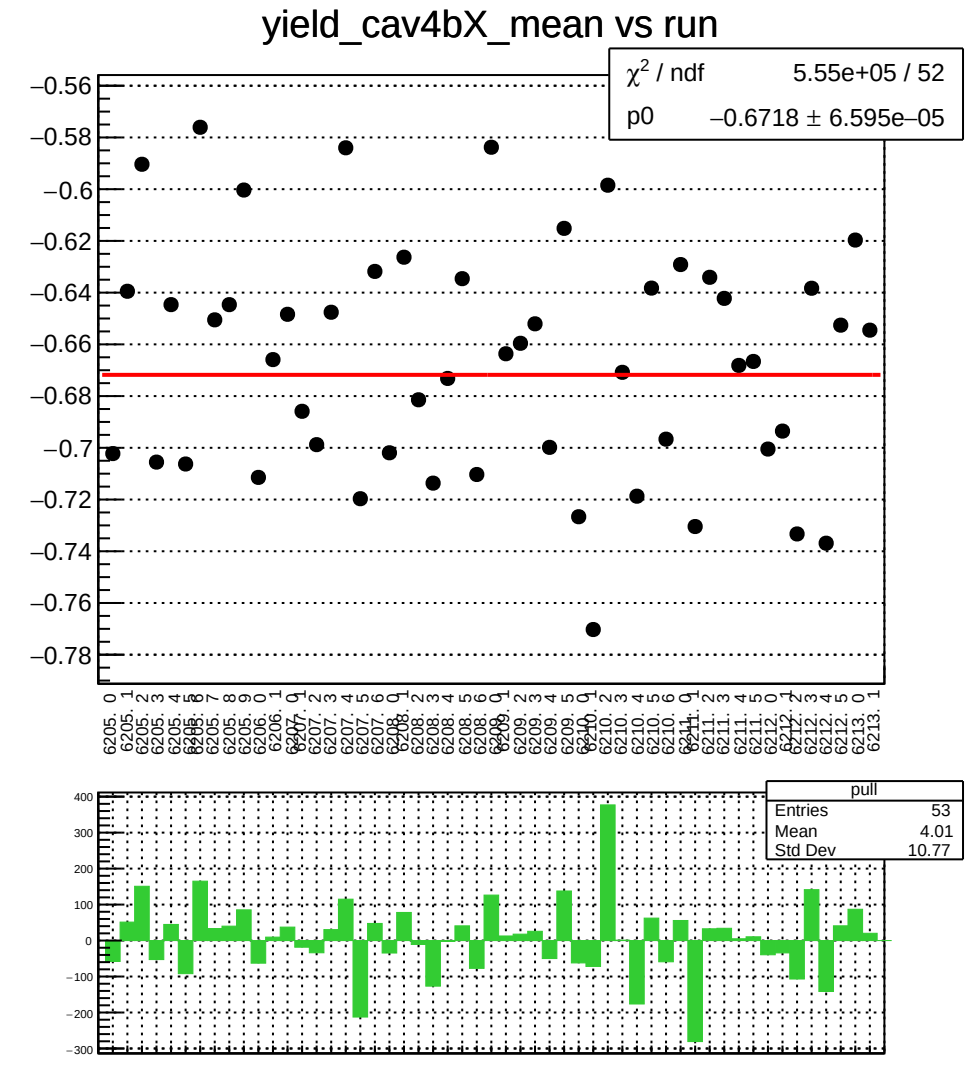

pull1D
Entries 53
Mean −0.4251
Std Dev 2.763

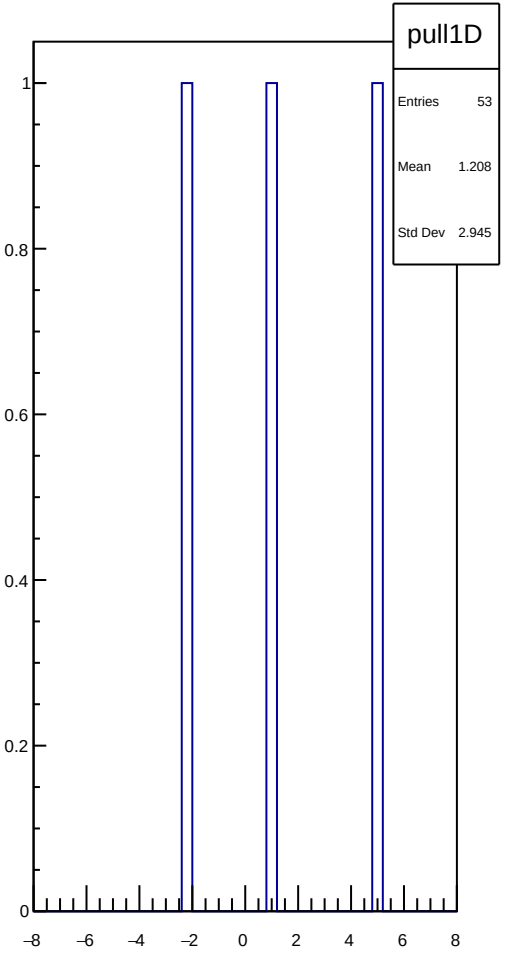

asym_bpm1i04WS_rms vs run
χ² / ndf 2.038e+05 / 52
p0 98.71 ± 0.1088
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

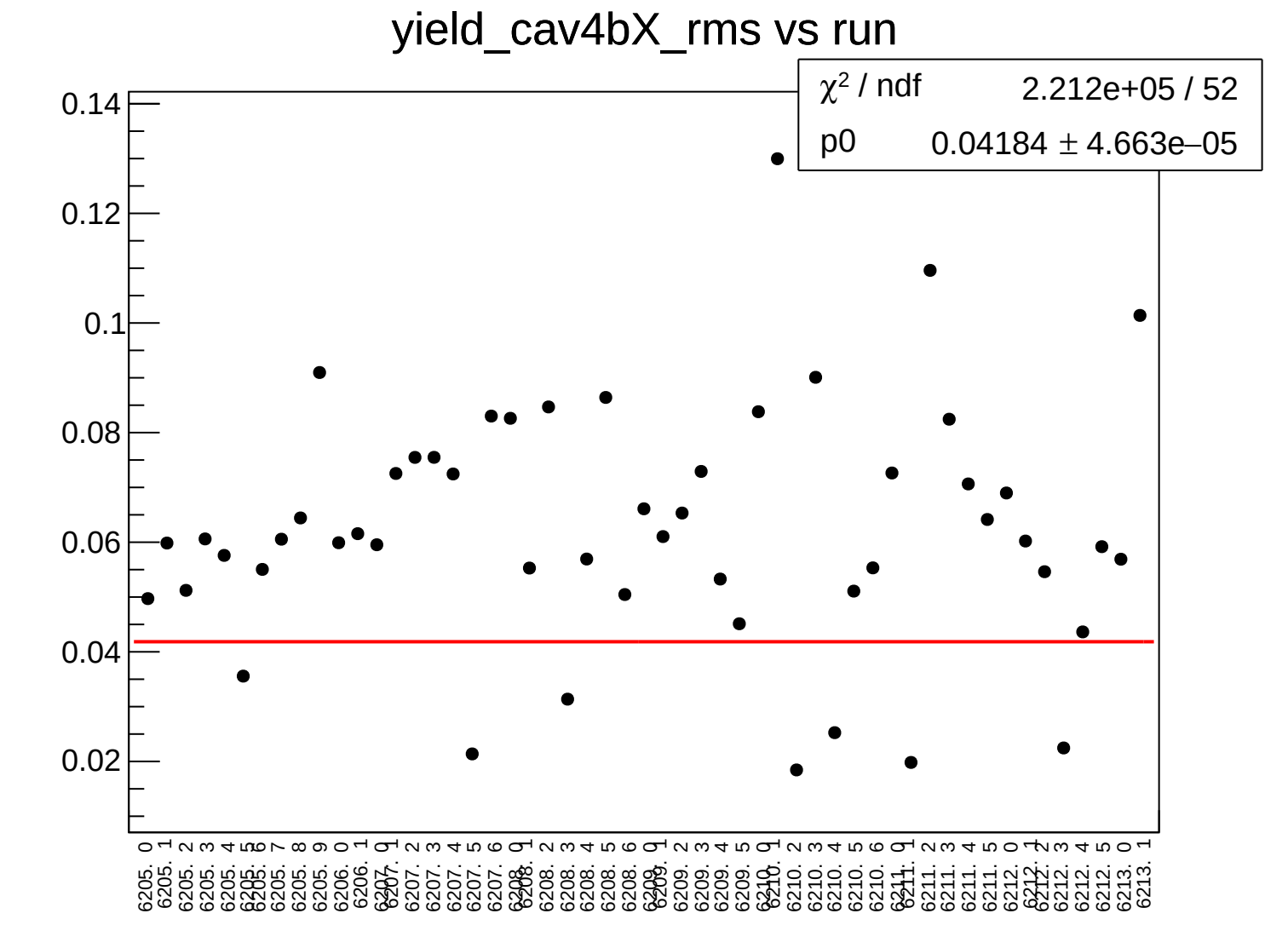

asym_bpm1i06WS_mean vs run
χ² / ndf 250 / 52
p0 −4693 ± 253.5
pull
Entries 53
Mean 187
Std Dev 166.3

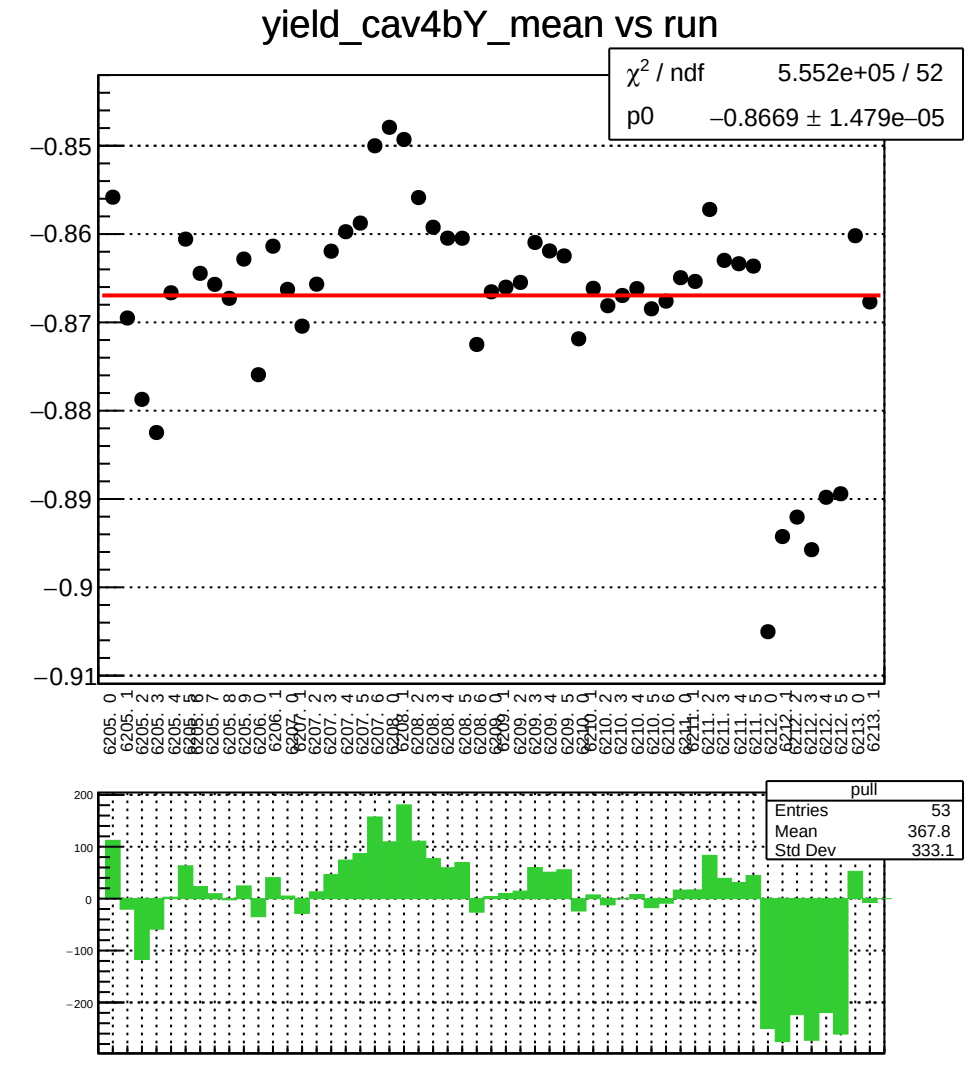

pull1D
Entries 53
Mean −0.2706
Std Dev 1.743

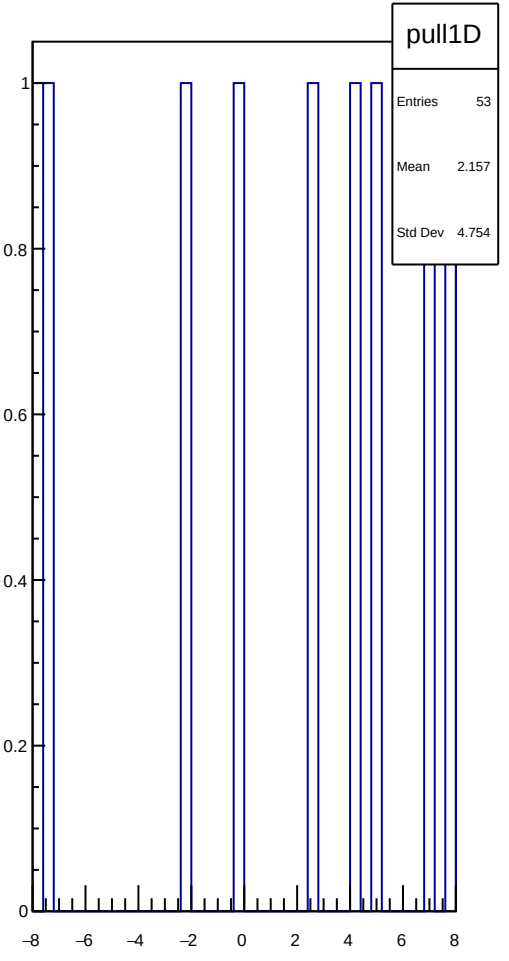

asym_bpm1i06WS_rms vs run
χ² / ndf 1.327e+05 / 52
p0 169.4 ± 0.1792
1200
1000
800
600
400
200
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

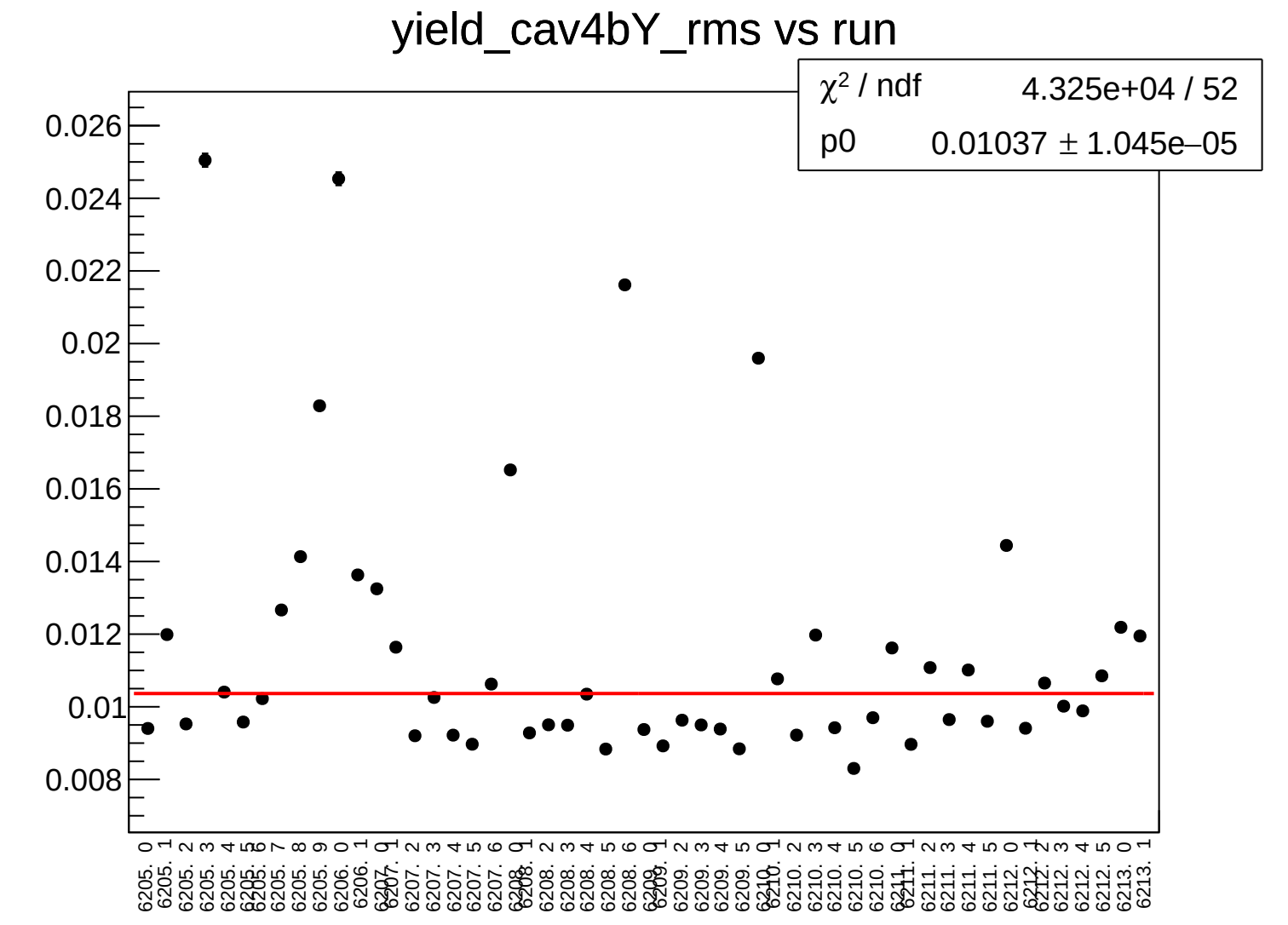

yield_cav4bX_mean vs run
χ² / ndf 5.55e+05 / 52
p0 −0.6718 ± 6.595e−05
pull
Entries 53
Mean 4.01
Std Dev 10.77

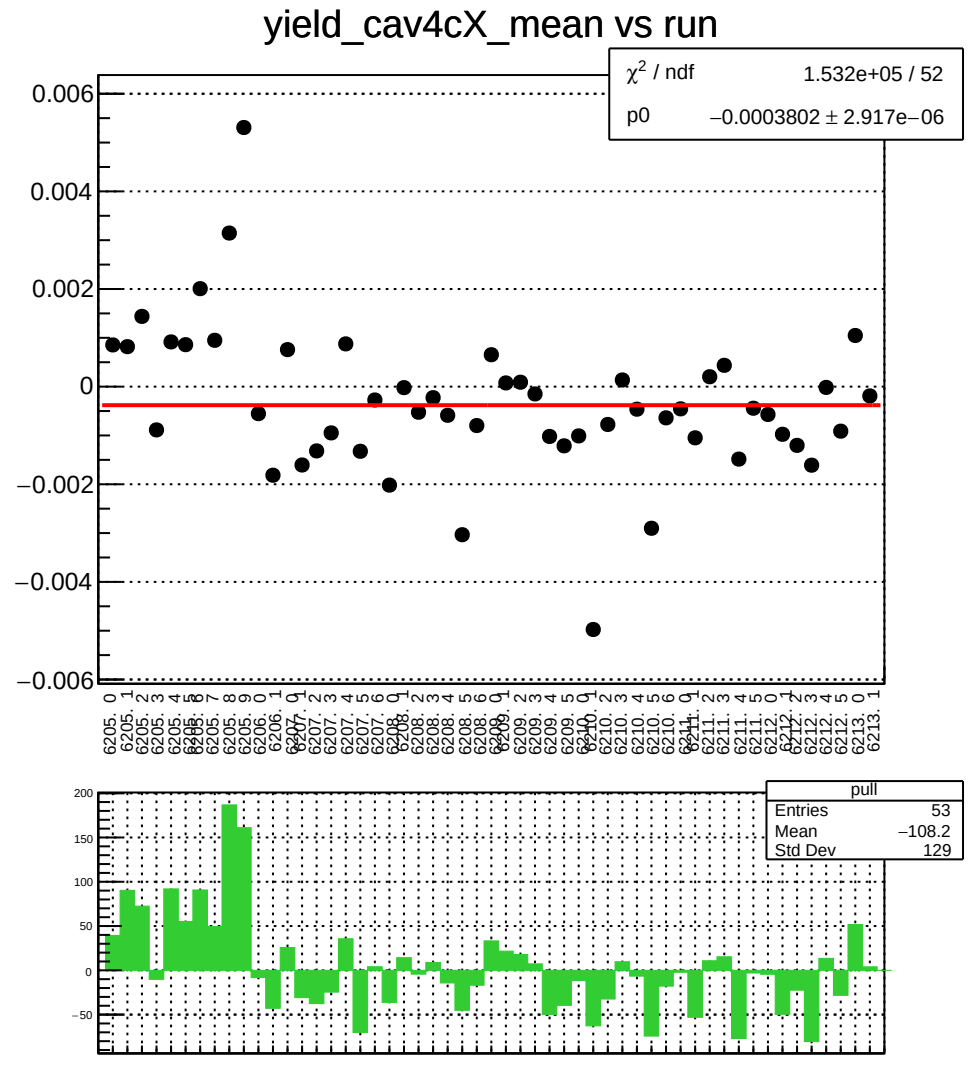

pull1D
Entries 53
Mean 1.208
Std Dev 2.945

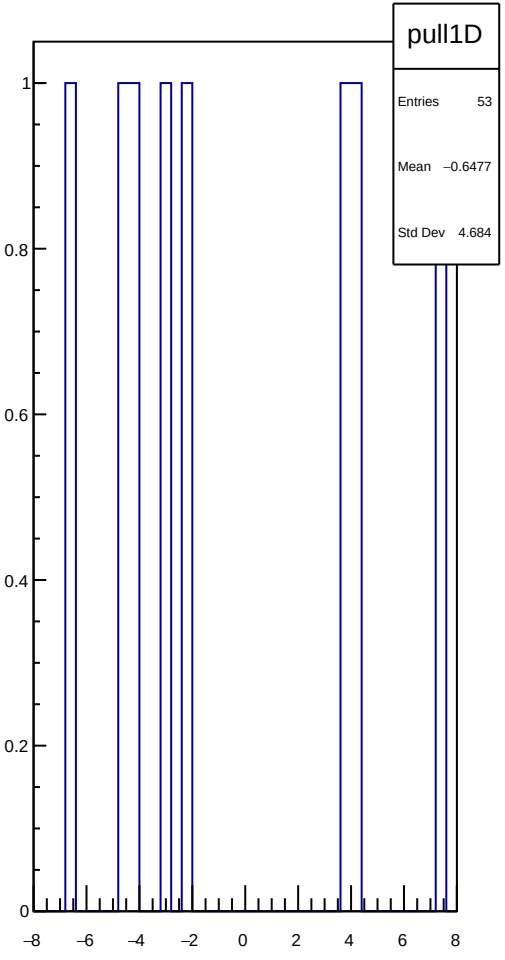

yield_cav4bX_rms vs run
χ² / ndf 2.212e+05 / 52
p0 0.04184 ± 4.663e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

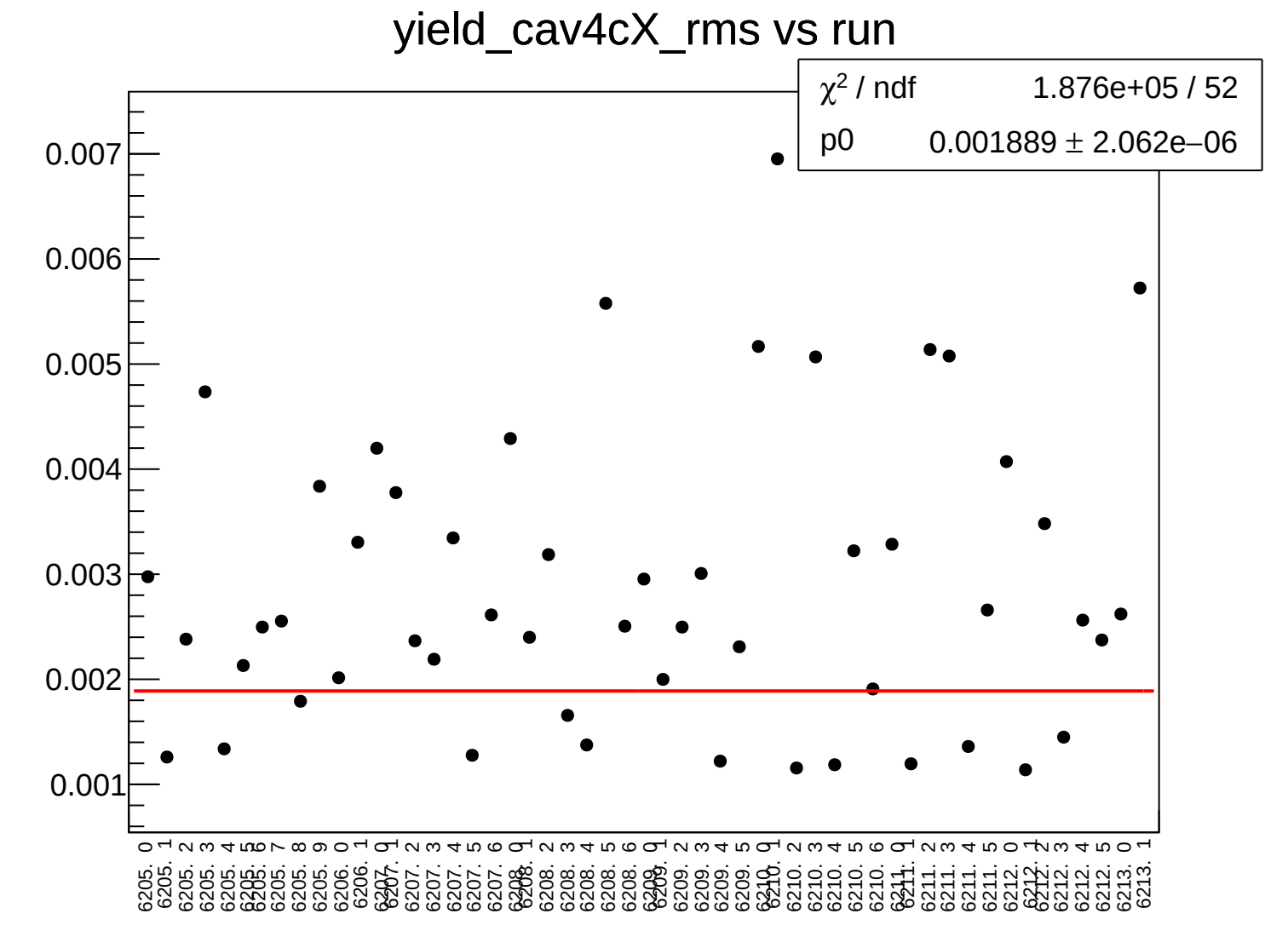

yield_cav4bY_mean vs run
χ² / ndf 5.552e+05 / 52
p0 −0.8669 ± 1.479e−05
−0.85
−0.86
−0.87
−0.88
−0.89
−0.9
−0.91
pull
Entries 53
Mean 367.8
Std Dev 333.1
200
100
0
−100
−200

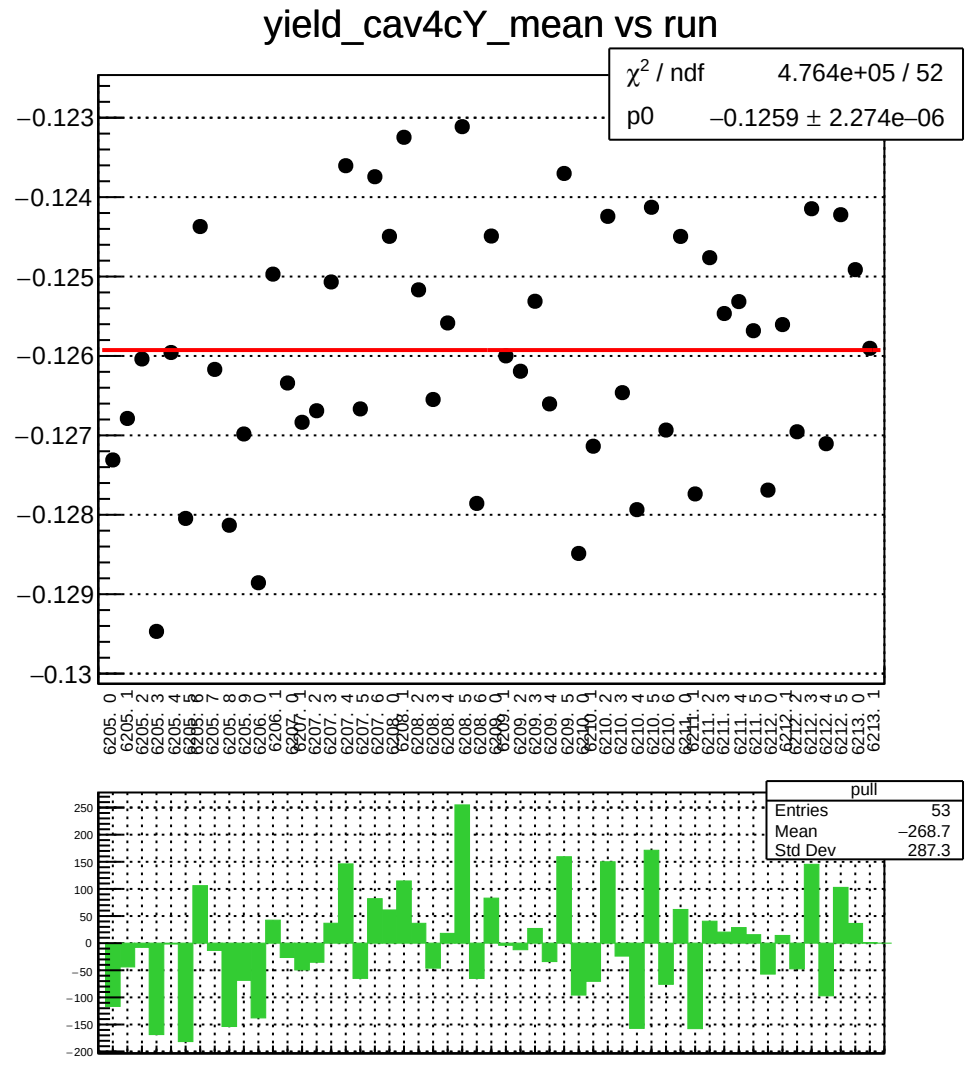

pull1D
Entries 53
Mean 2.157
Std Dev 4.754
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

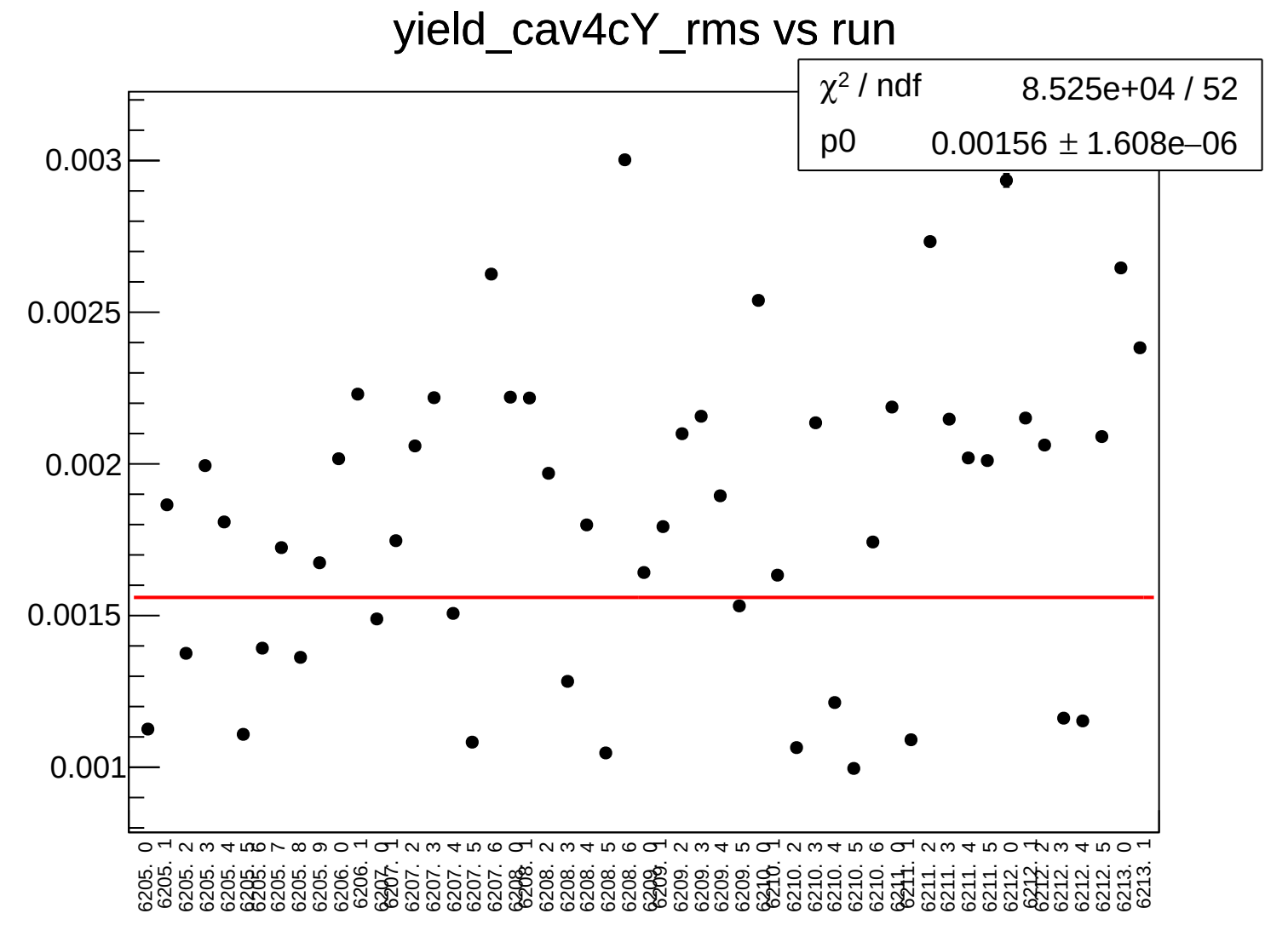

yield_cav4bY_rms vs run
χ² / ndf 4.325e+04 / 52
p0 0.01037 ± 1.045e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

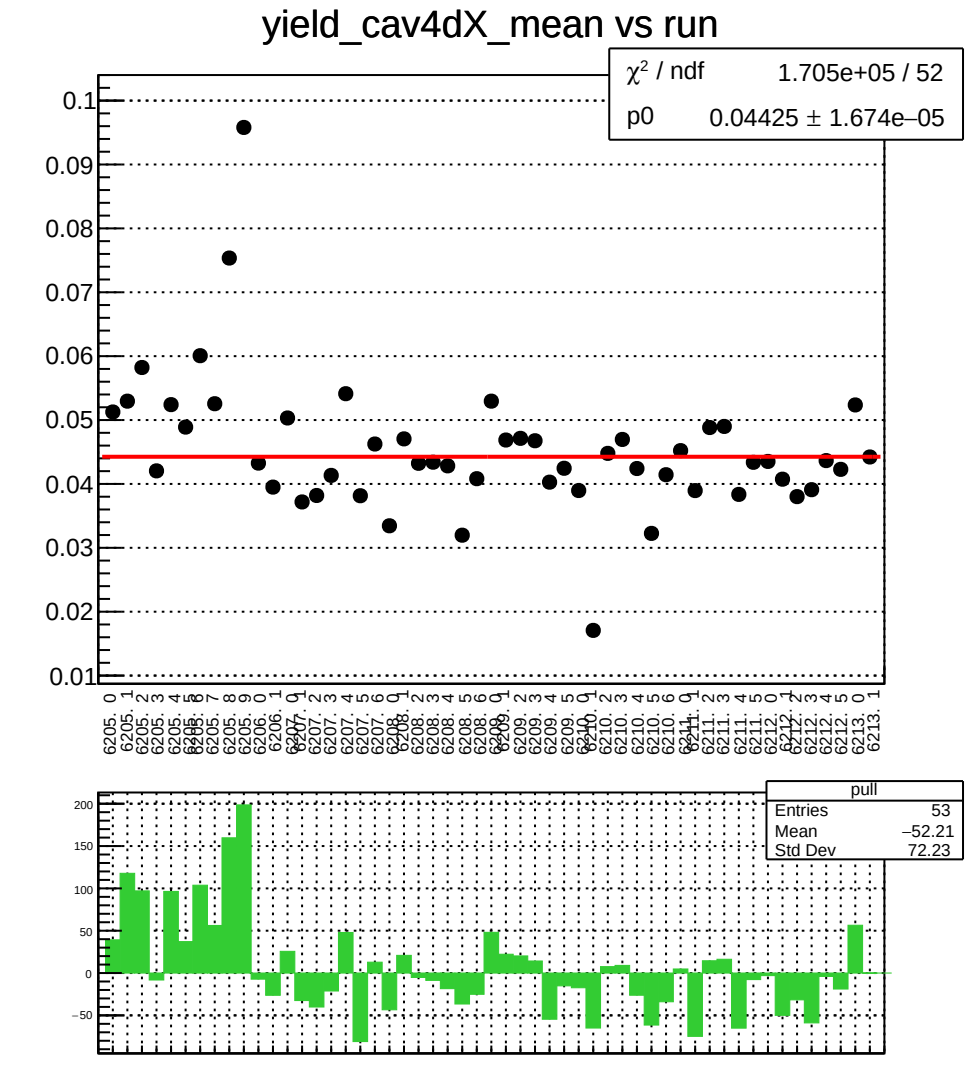

yield_cav4cX_mean vs run
χ² / ndf 1.532e+05 / 52
p0 −0.0003802 ± 2.917e−06
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 53
Mean −108.2
Std Dev 129
200
150
100
50
0
−50

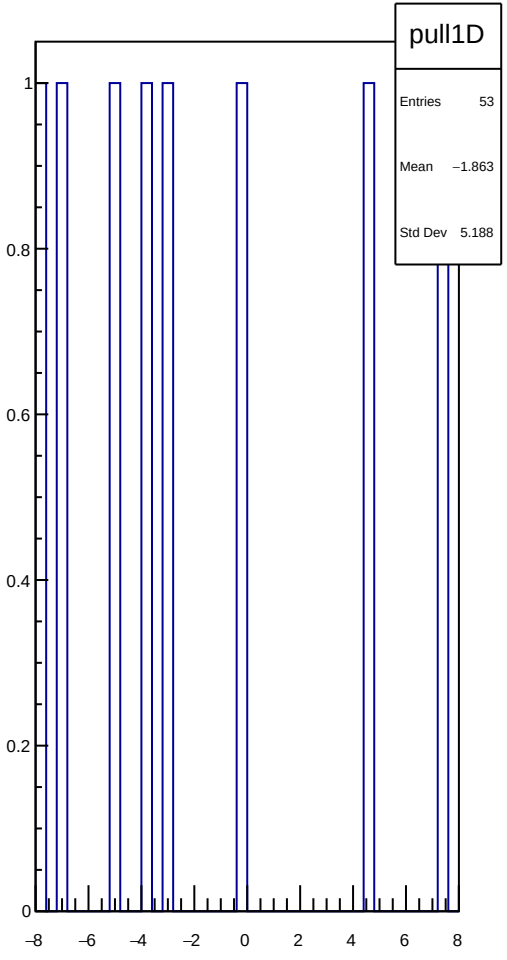

pull1D
Entries 53
Mean −0.6477
Std Dev 4.684
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

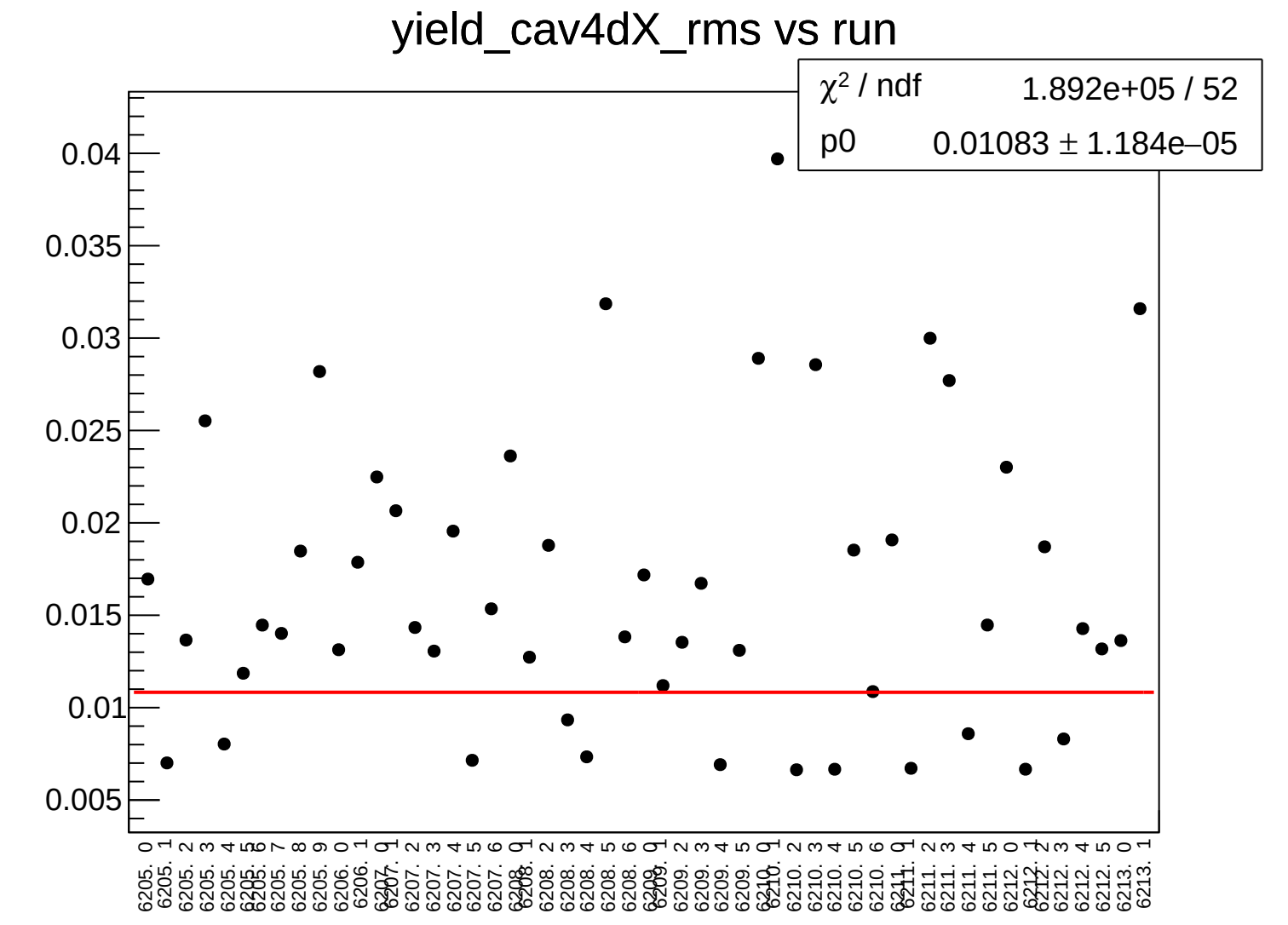

yield_cav4cX_rms vs run
χ² / ndf 1.876e+05 / 52
p0 0.001889 ± 2.062e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

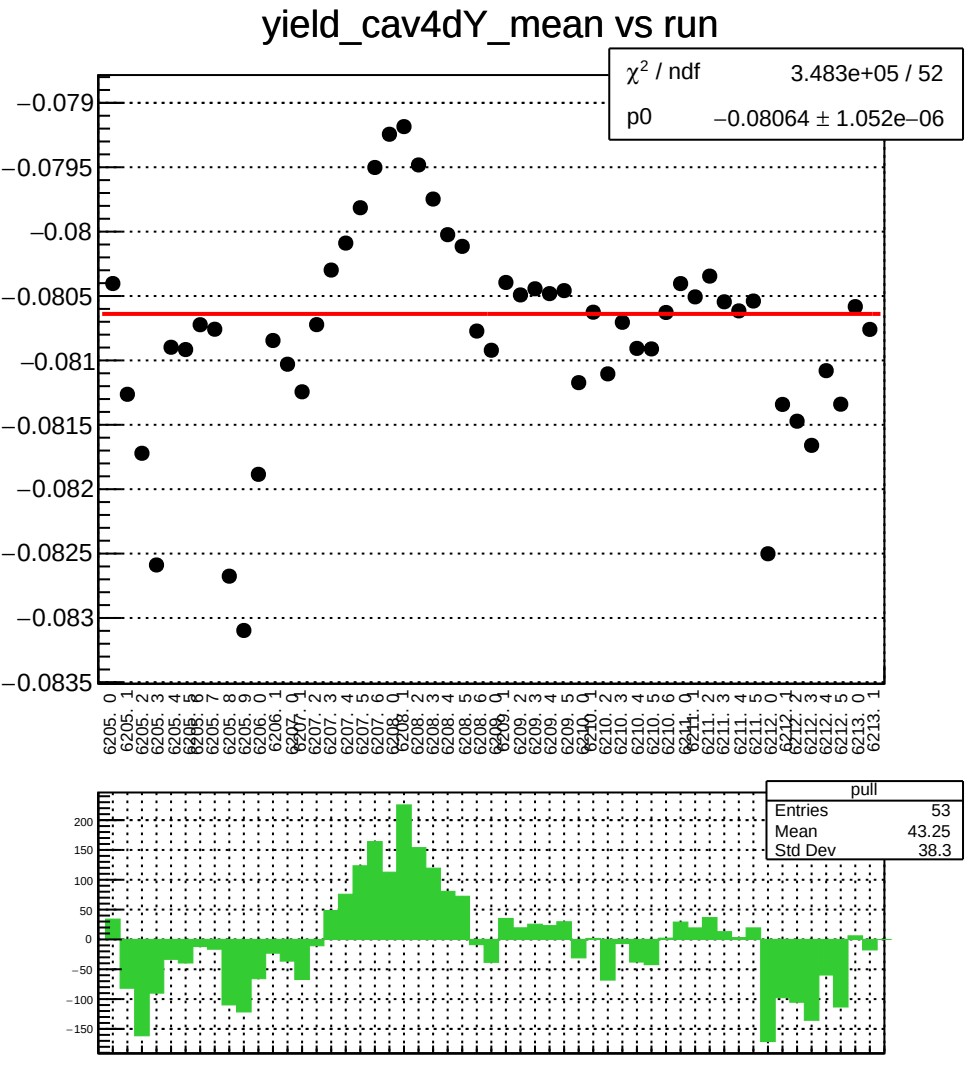

yield_cav4cY_mean vs run
χ² / ndf 4.764e+05 / 52
p0 −0.1259 ± 2.274e−06
−0.123
−0.124
−0.125
−0.126
−0.127
−0.128
−0.129
−0.13
pull
Entries 53
Mean −268.7
Std Dev 287.3
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 53
Mean −3.031
Std Dev 3.234
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

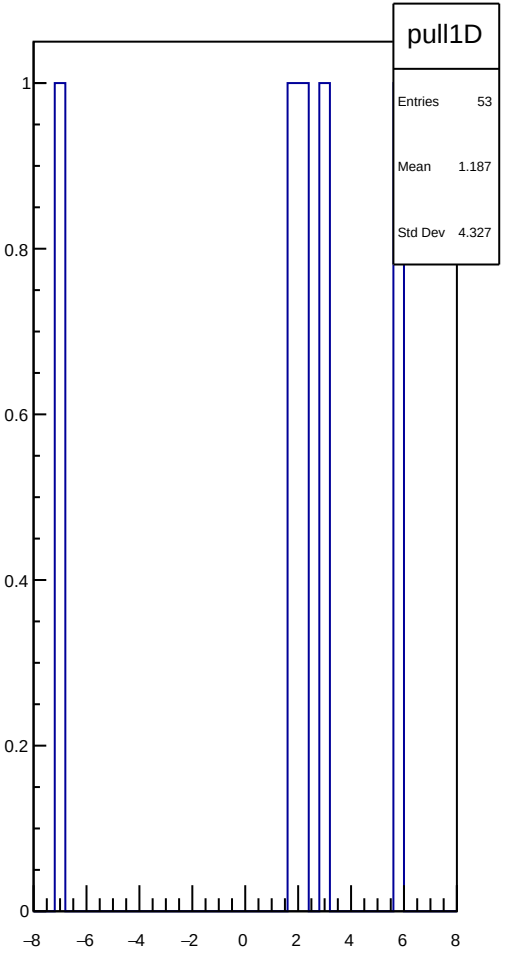

yield_cav4cY_rms vs run
χ² / ndf 8.525e+04 / 52
p0 0.00156 ± 1.608e−06
0.003
0.0025
0.002
0.0015
0.001
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

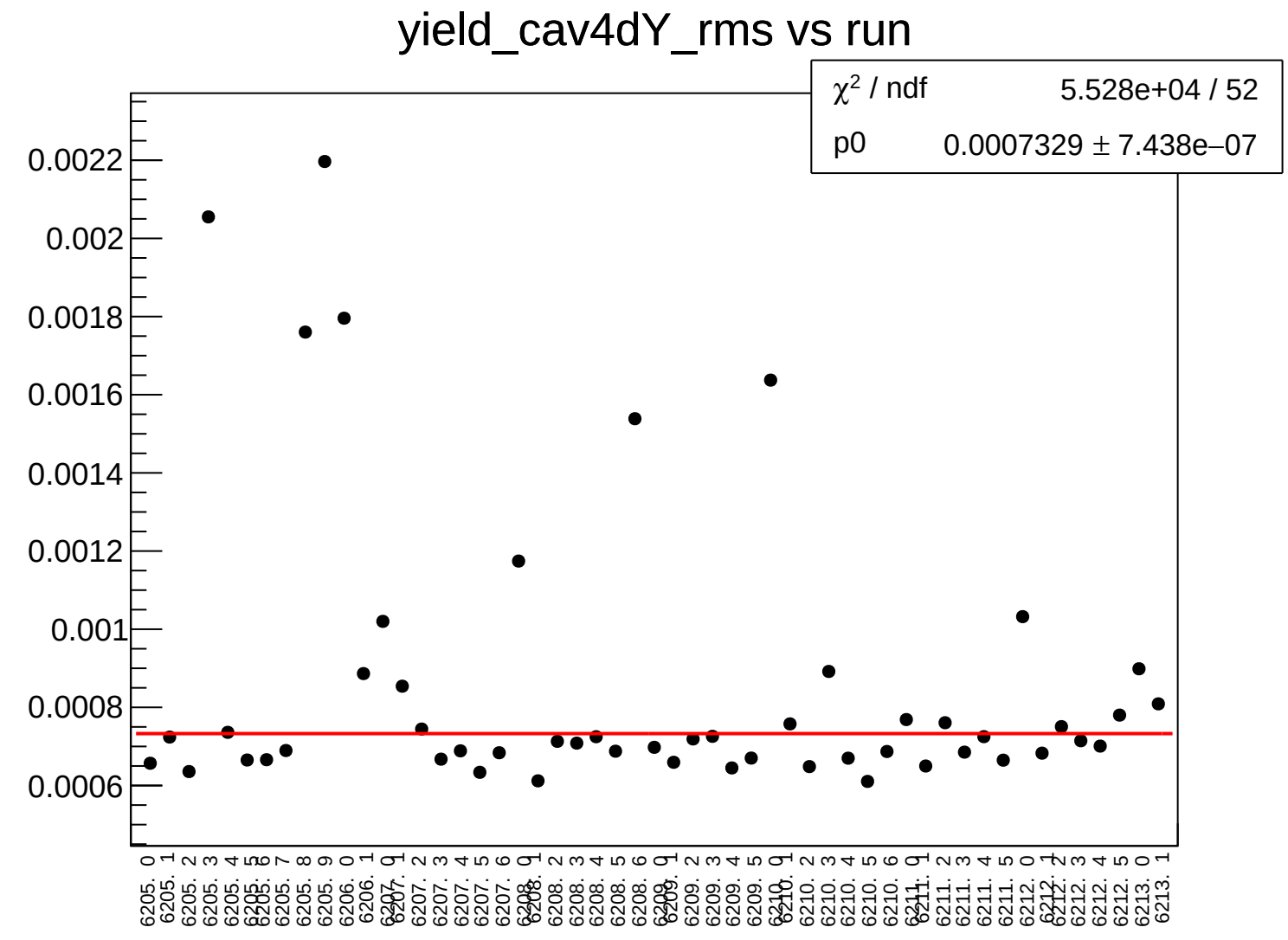

yield_cav4dX_mean vs run
χ² / ndf 1.705e+05 / 52
p0 0.04425 ± 1.674e−05
pull
Entries 53
Mean −52.21
Std Dev 72.23

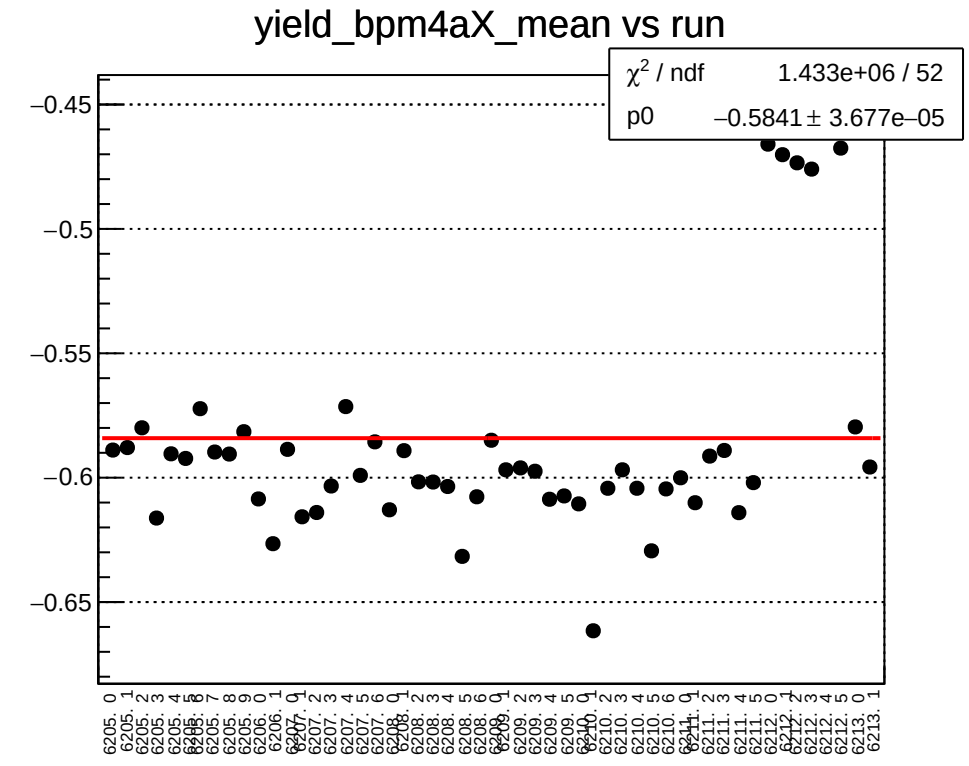

pull1D
Entries 53
Mean −1.863
Std Dev 5.188

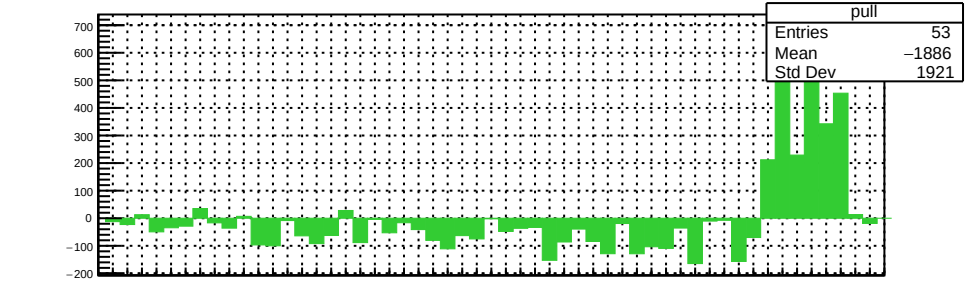

yield_cav4dX_rms vs run
χ² / ndf 1.892e+05 / 52
p0 0.01083 ± 1.184e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

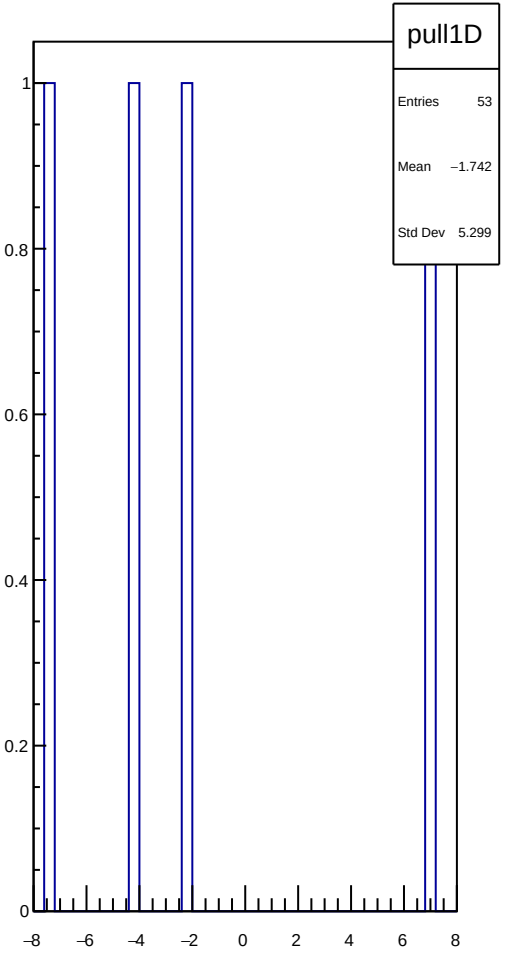

yield_cav4dY_mean vs run
χ² / ndf 3.483e+05 / 52
p0 −0.08064 ± 1.052e−06
−0.079
−0.0795
−0.08
−0.0805
−0.081
−0.0815
−0.082
−0.0825
−0.083
−0.0835
pull
Entries 53
Mean 43.25
Std Dev 38.3
200
150
100
50
0
−50
−100
−150

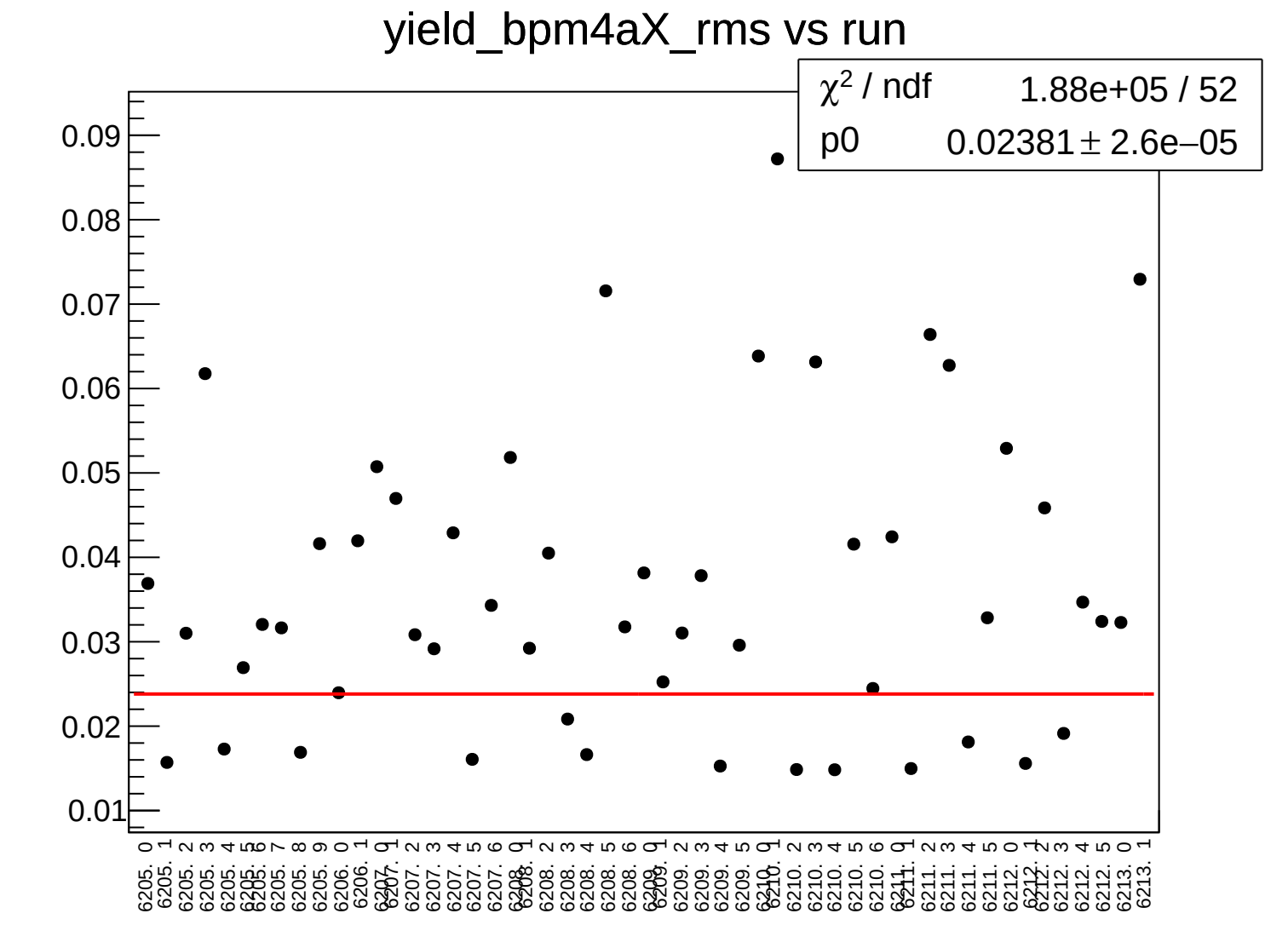

pull1D
Entries 53
Mean 1.187
Std Dev 4.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

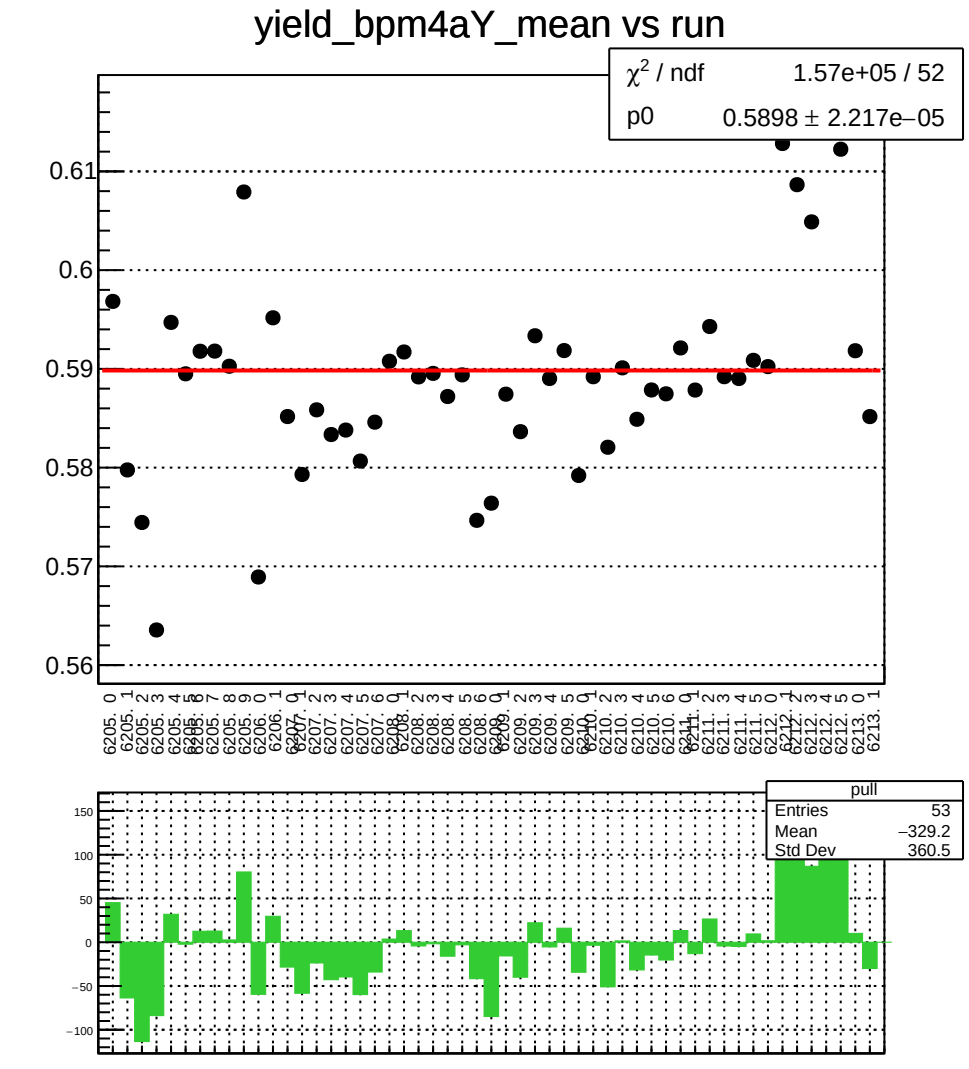

yield_cav4dY_rms vs run
χ² / ndf 5.528e+04 / 52
p0 0.0007329 ± 7.438e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

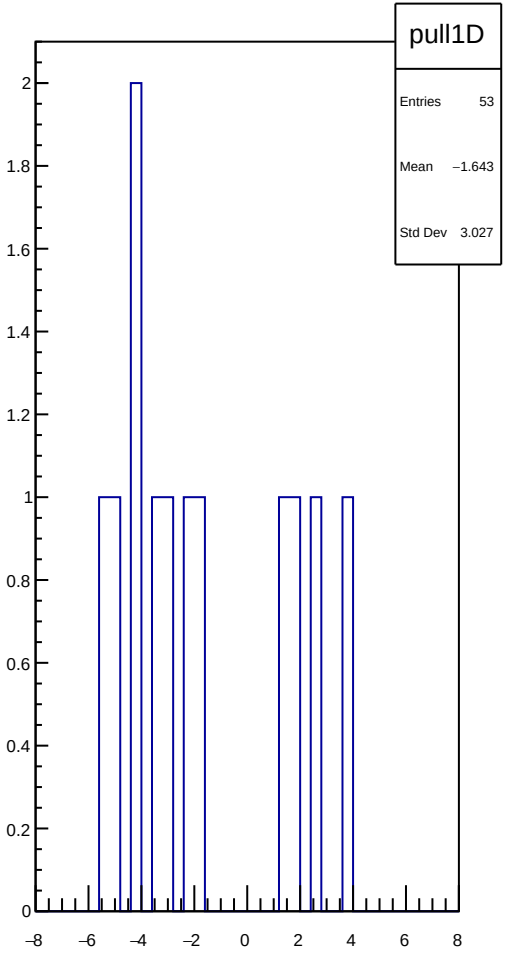

yield_bpm4aX_mean vs run
χ² / ndf 1.433e+06 / 52
p0 −0.5841 ± 3.677e−05
−0.45
−0.5
−0.55
−0.6
−0.65

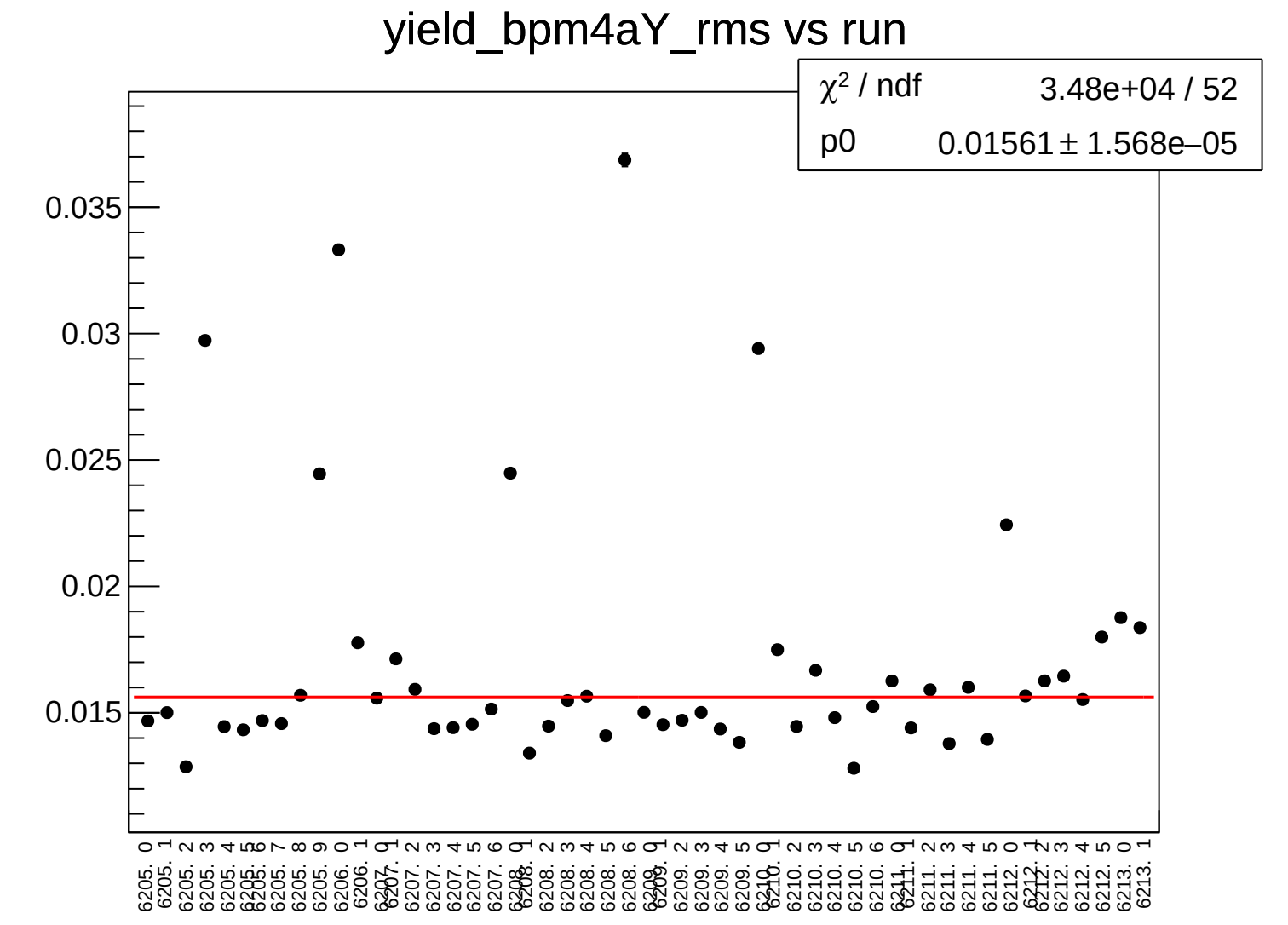

pull
Entries 53
Mean −1886
Std Dev 1921
700
600
500
400
300
200
100
0
−100
−200

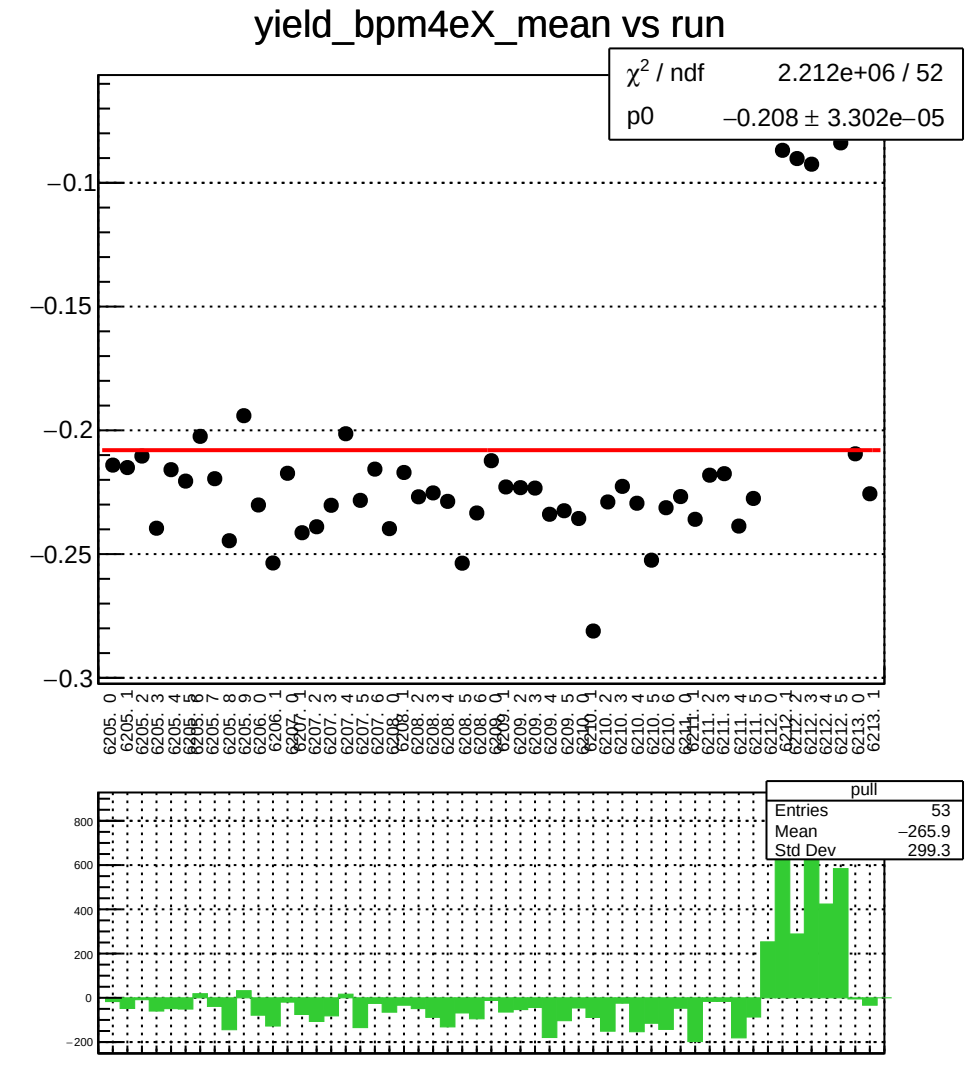

pull1D
Entries 53
Mean −1.742
Std Dev 5.299
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

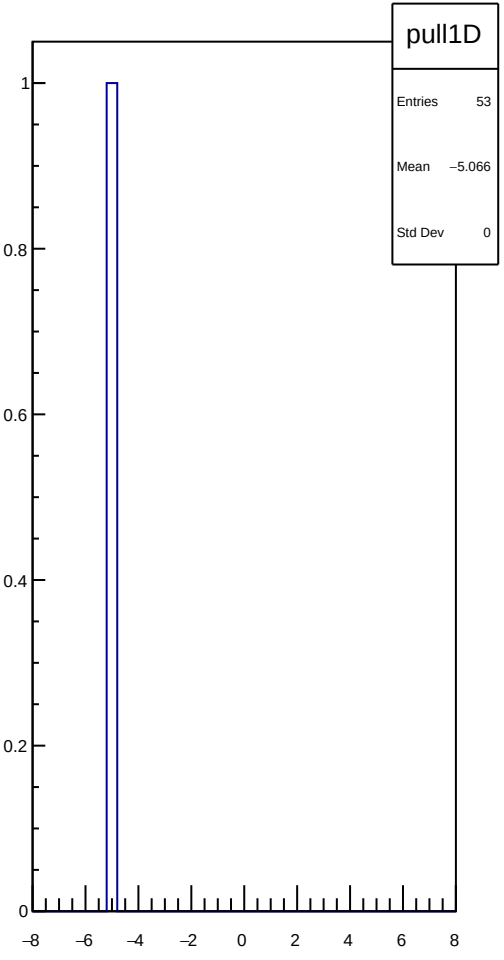

yield_bpm4aX_rms vs run
χ^2 / ndf 1.88e+05 / 52
p0 0.02381 ± 2.6e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

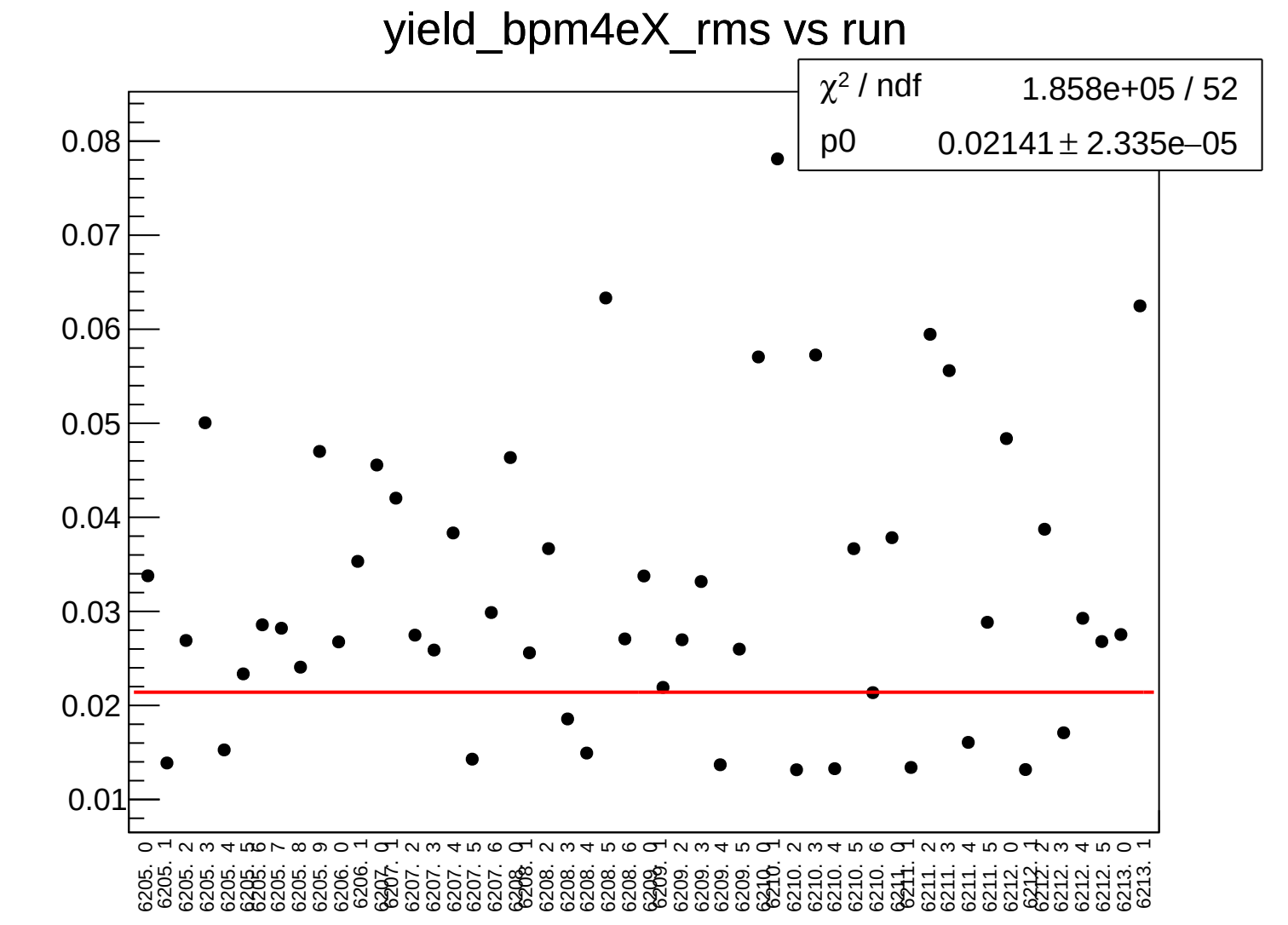

yield_bpm4aY_mean vs run
χ² / ndf 1.57e+05 / 52
p0 0.5898 ± 2.217e−05
0.61
0.6
0.59
0.58
0.57
0.56
pull
Entries 53
Mean −329.2
Std Dev 360.5
150
100
50
0
−50
−100

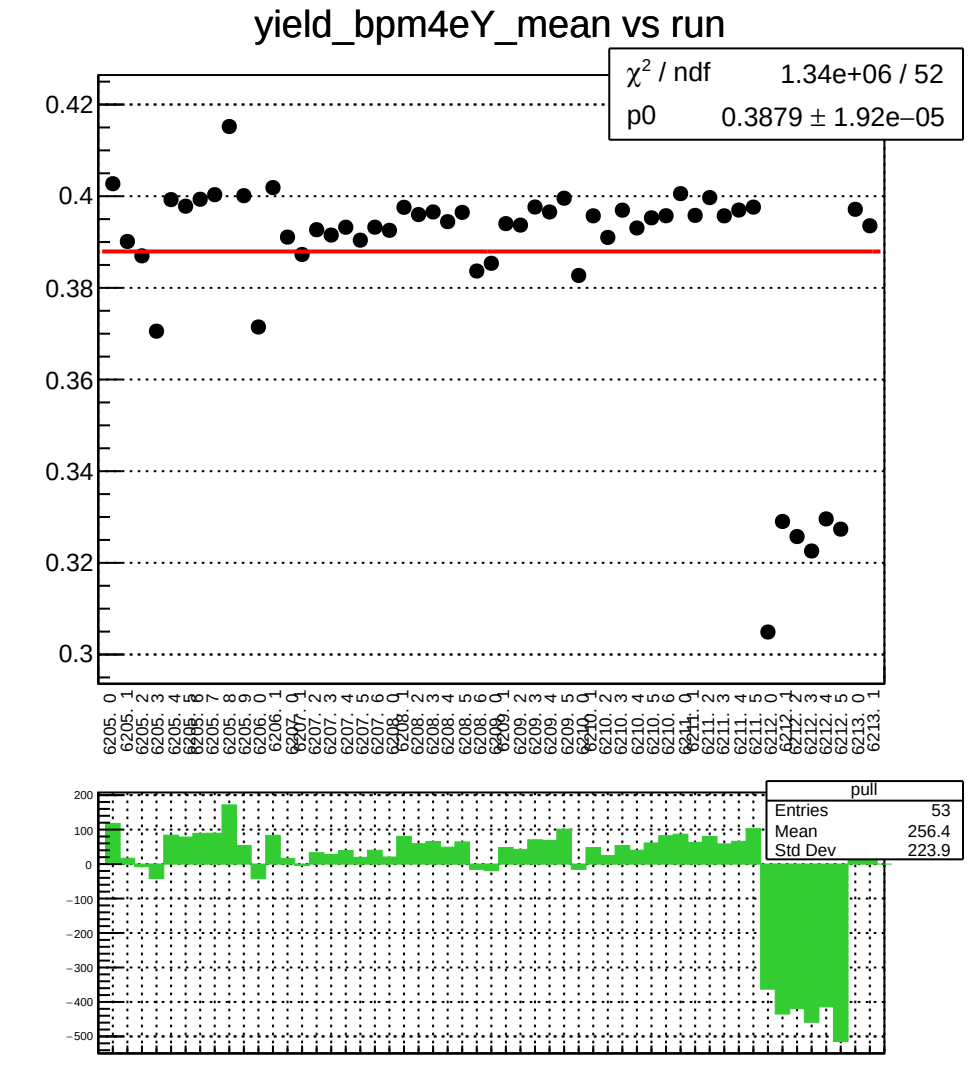

pull1D
Entries 53
Mean −1.643
Std Dev 3.027
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

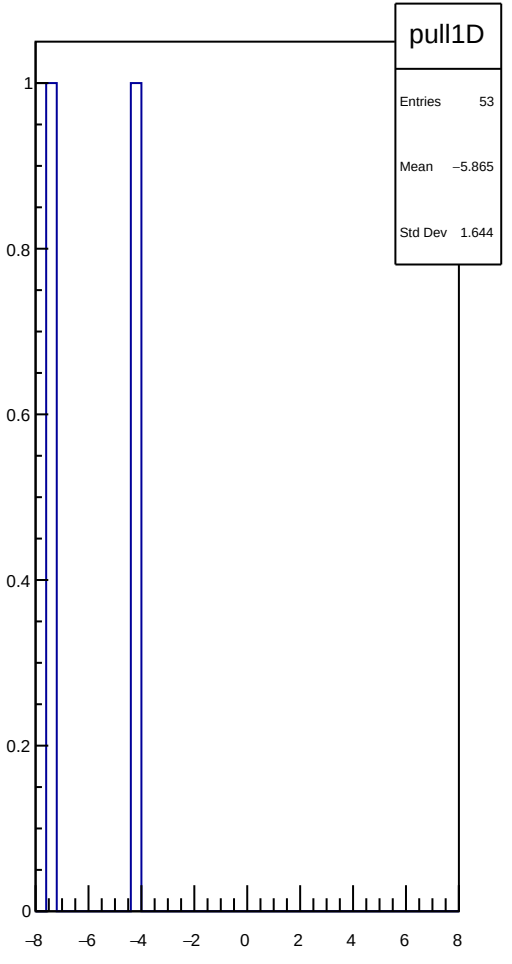

yield_bpm4aY_rms vs run
χ² / ndf 3.48e+04 / 52
p0 0.01561 ± 1.568e–05
0.035
0.03
0.025
0.02
0.015
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

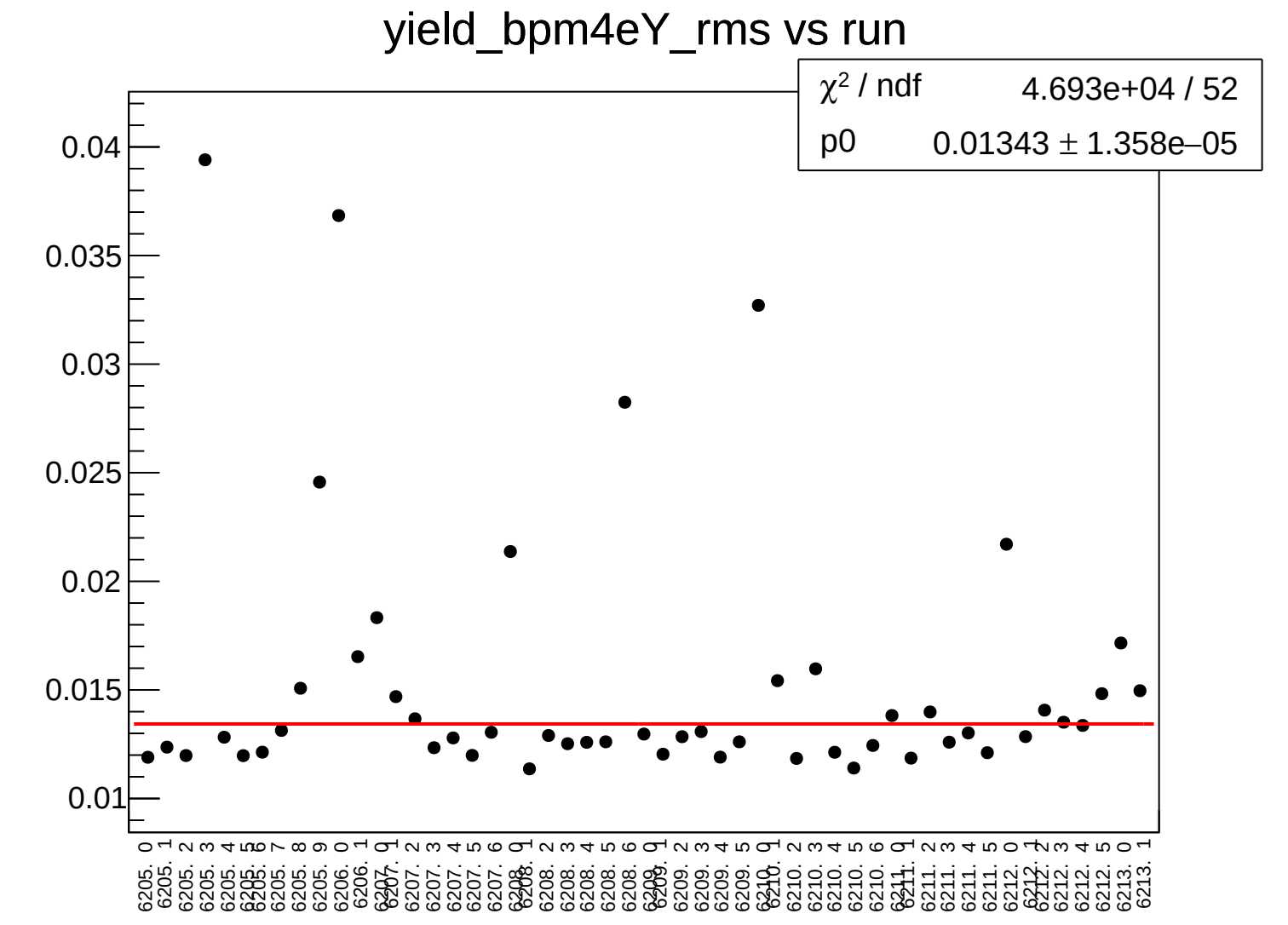

yield_bpm4eX_mean vs run
χ² / ndf 2.212e+06 / 52
p0 −0.208 ± 3.302e−05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 53
Mean −265.9
Std Dev 299.3
800
600
400
200
0
−200

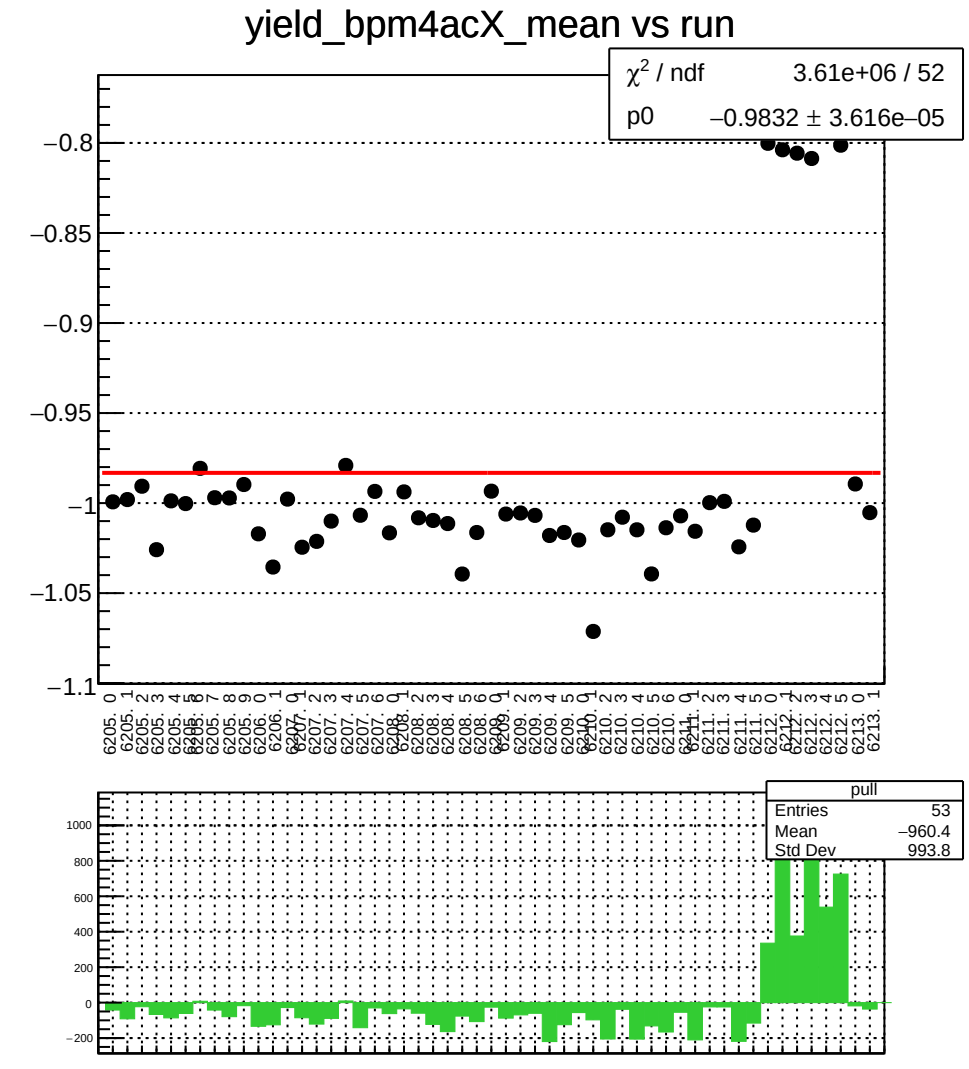

pull1D
Entries 53
Mean −5.066
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

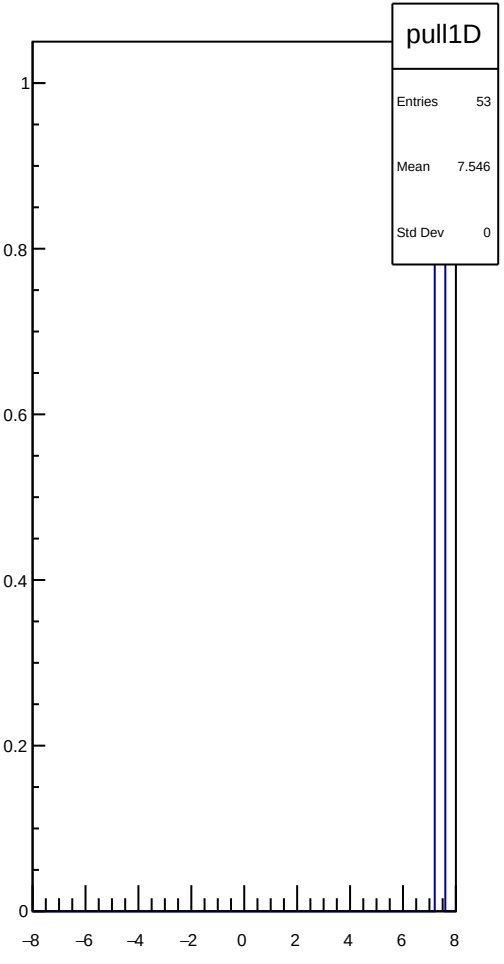

yield_bpm4eX_rms vs run
χ² / ndf 1.858e+05 / 52
p0 0.02141 ± 2.335e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

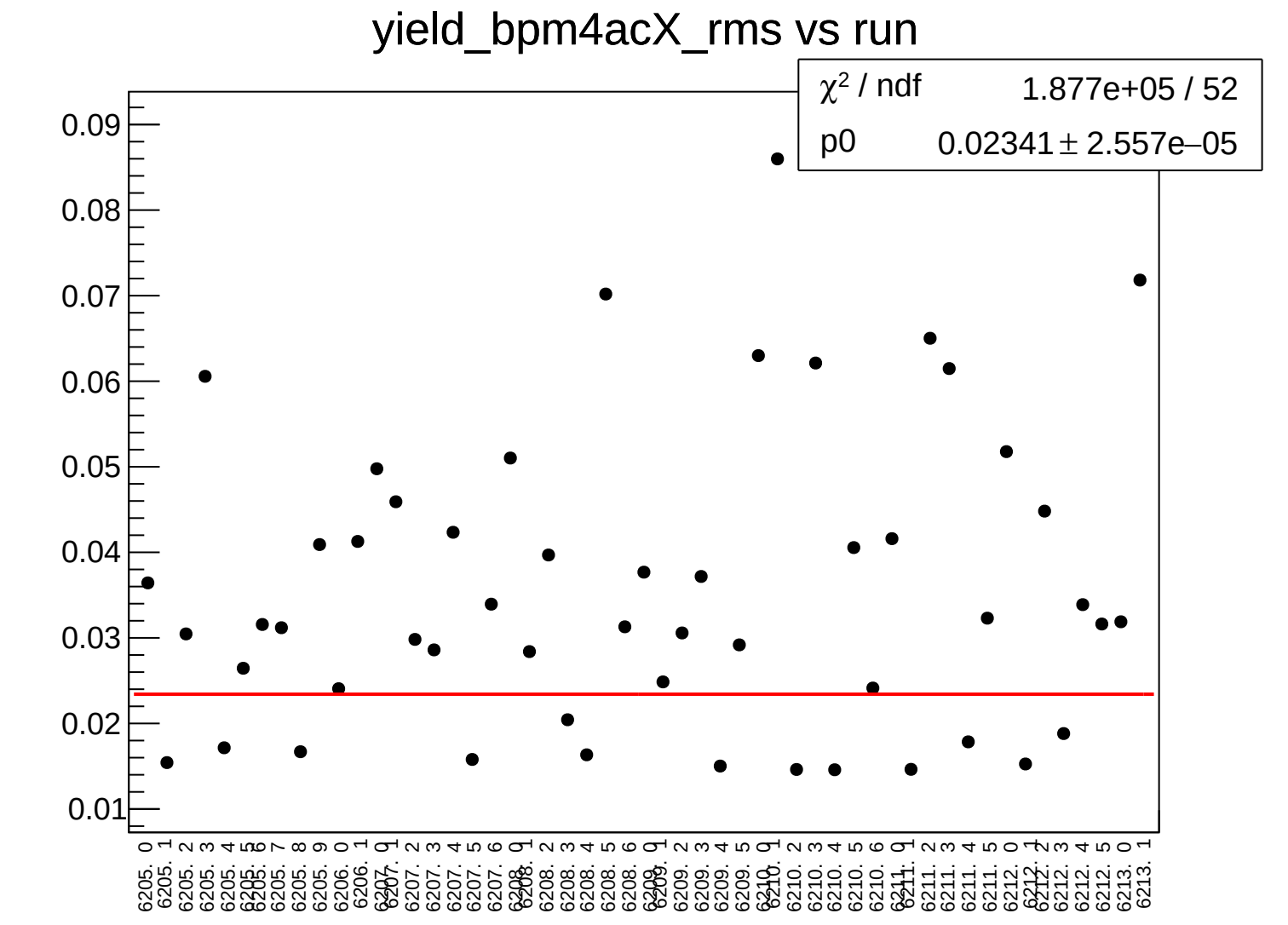

yield_bpm4eY_mean vs run
χ² / ndf 1.34e+06 / 52
p0 0.3879 ± 1.92e−05
0.42
0.4
0.38
0.36
0.34
0.32
0.3
pull
Entries 53
Mean 256.4
Std Dev 223.9
200
100
0
−100
−200
−300
−400
−500

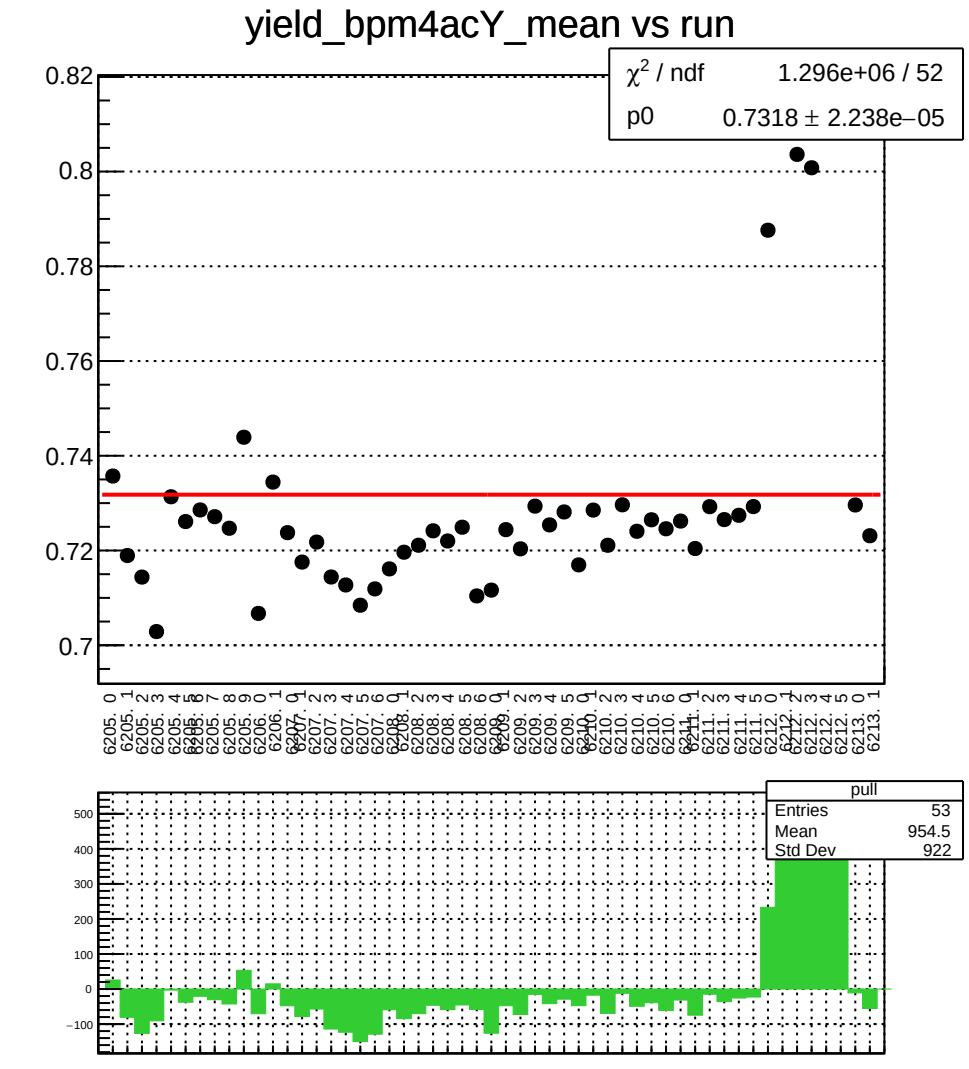

pull1D
Entries 53
Mean −5.865
Std Dev 1.644
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

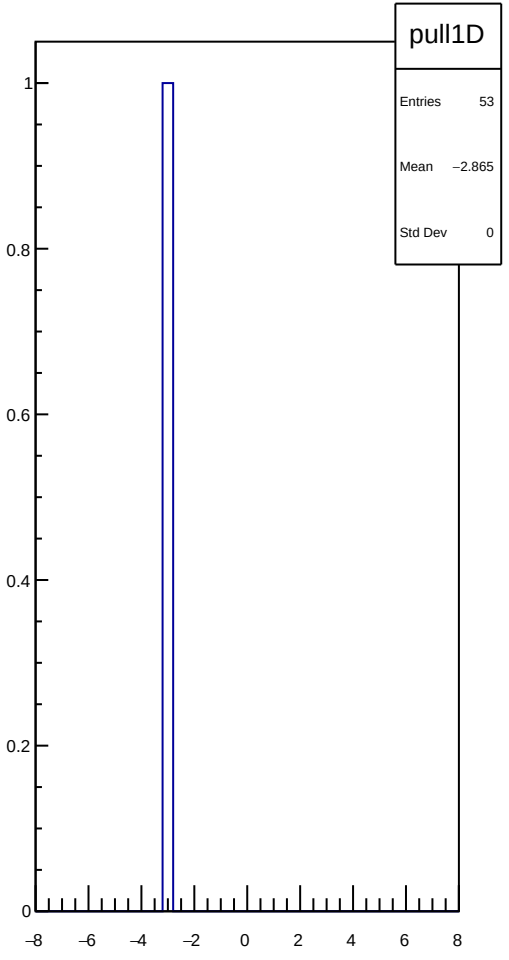

yield_bpm4eY_rms vs run
χ² / ndf 4.693e+04 / 52
p0 0.01343 ± 1.358e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

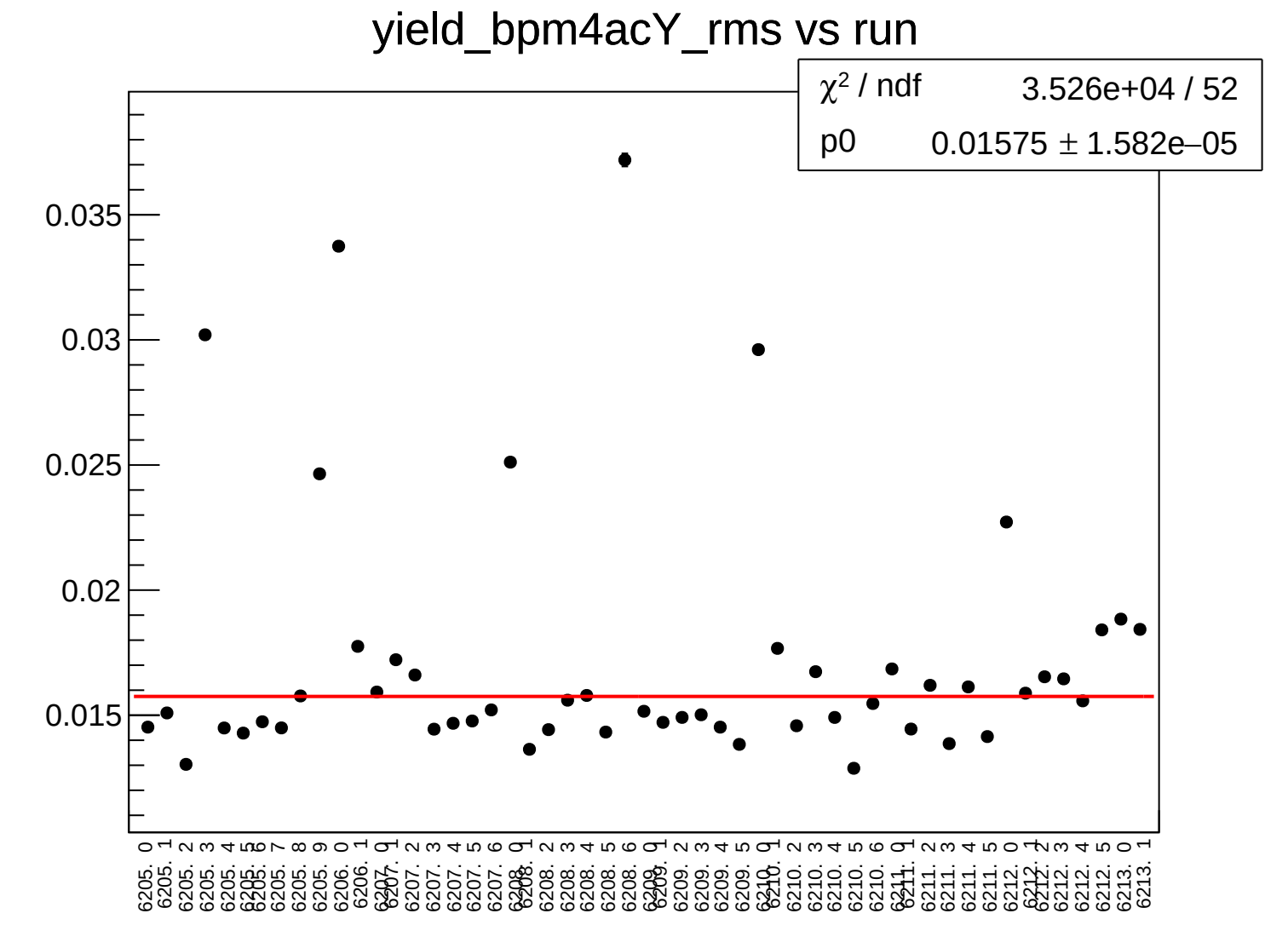

yield_bpm4acX_mean vs run
χ² / ndf 3.61e+06 / 52
p0 −0.9832 ± 3.616e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 53
Mean −960.4
Std Dev 993.8
1000
800
600
400
200
0
−200

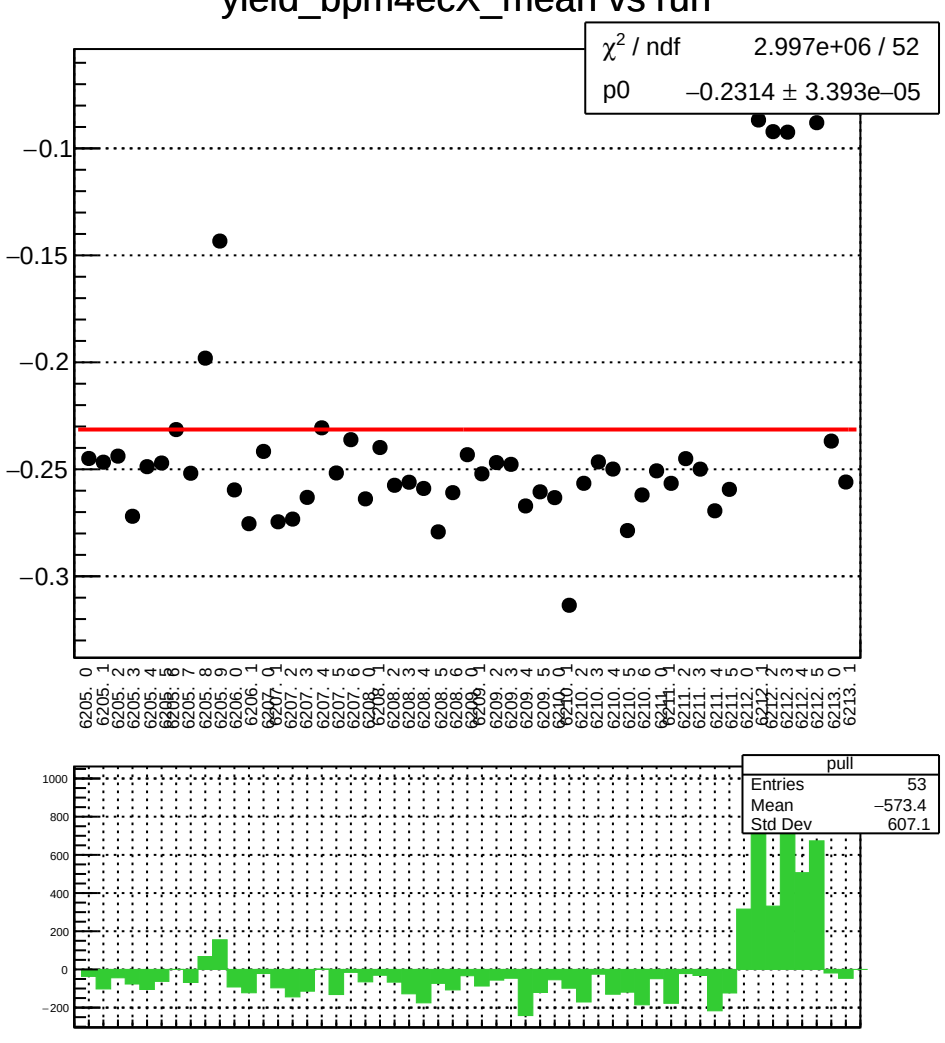

pull1D
Entries 53
Mean 7.546
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

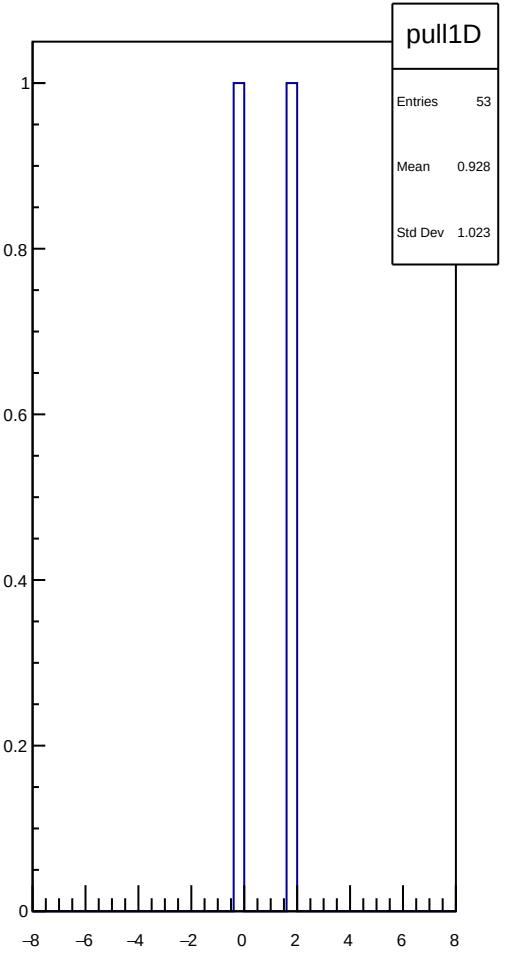

yield_bpm4acX_rms vs run
χ² / ndf 1.877e+05 / 52
p0 0.02341 ± 2.557e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

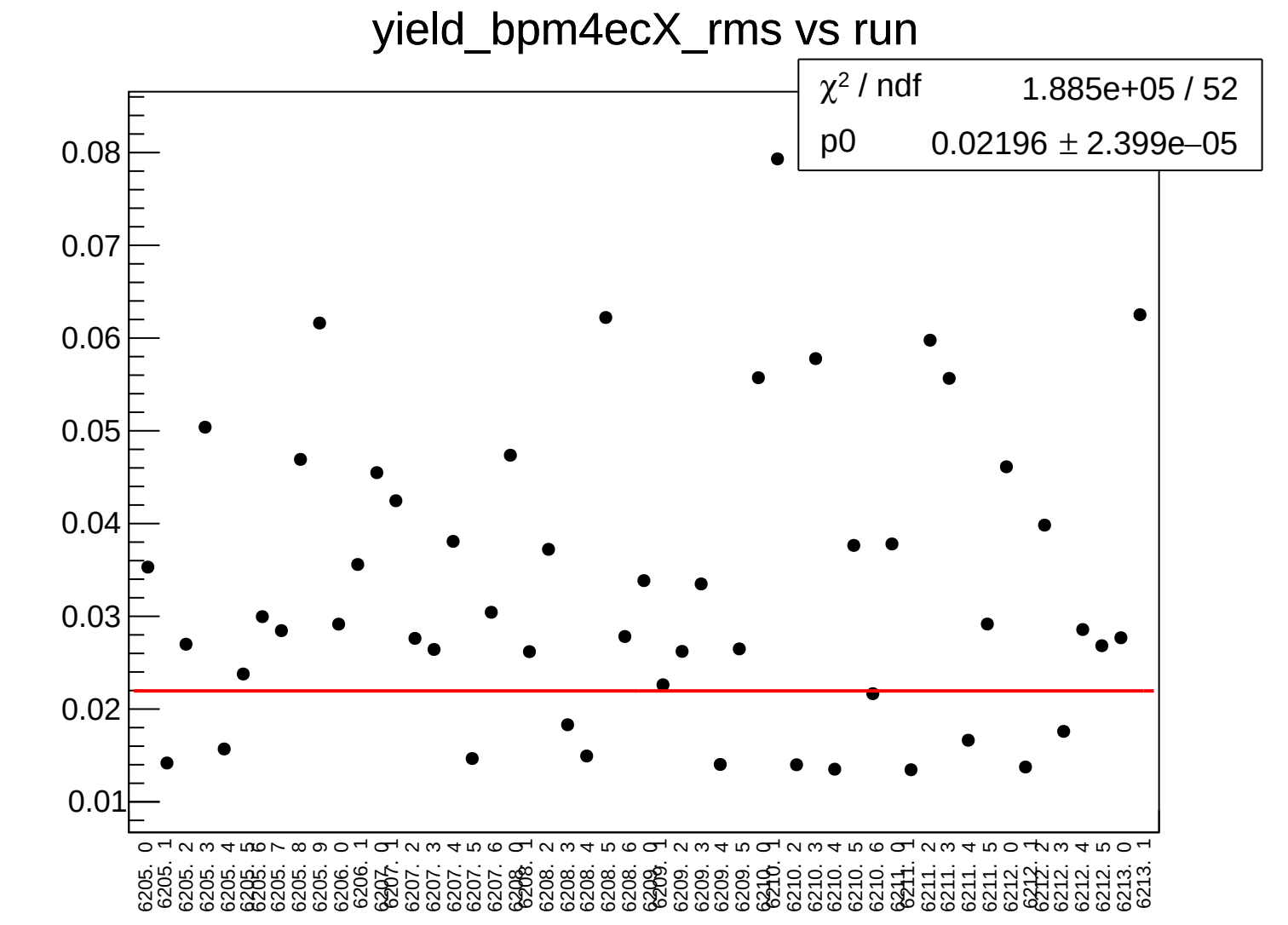

yield_bpm4acY_mean vs run
χ² / ndf 1.296e+06 / 52
p0 0.7318 ± 2.238e−05
0.82
0.8
0.78
0.76
0.74
0.72
0.7
pull
Entries 53
Mean 954.5
Std Dev 922
500
400
300
200
100
0
−100

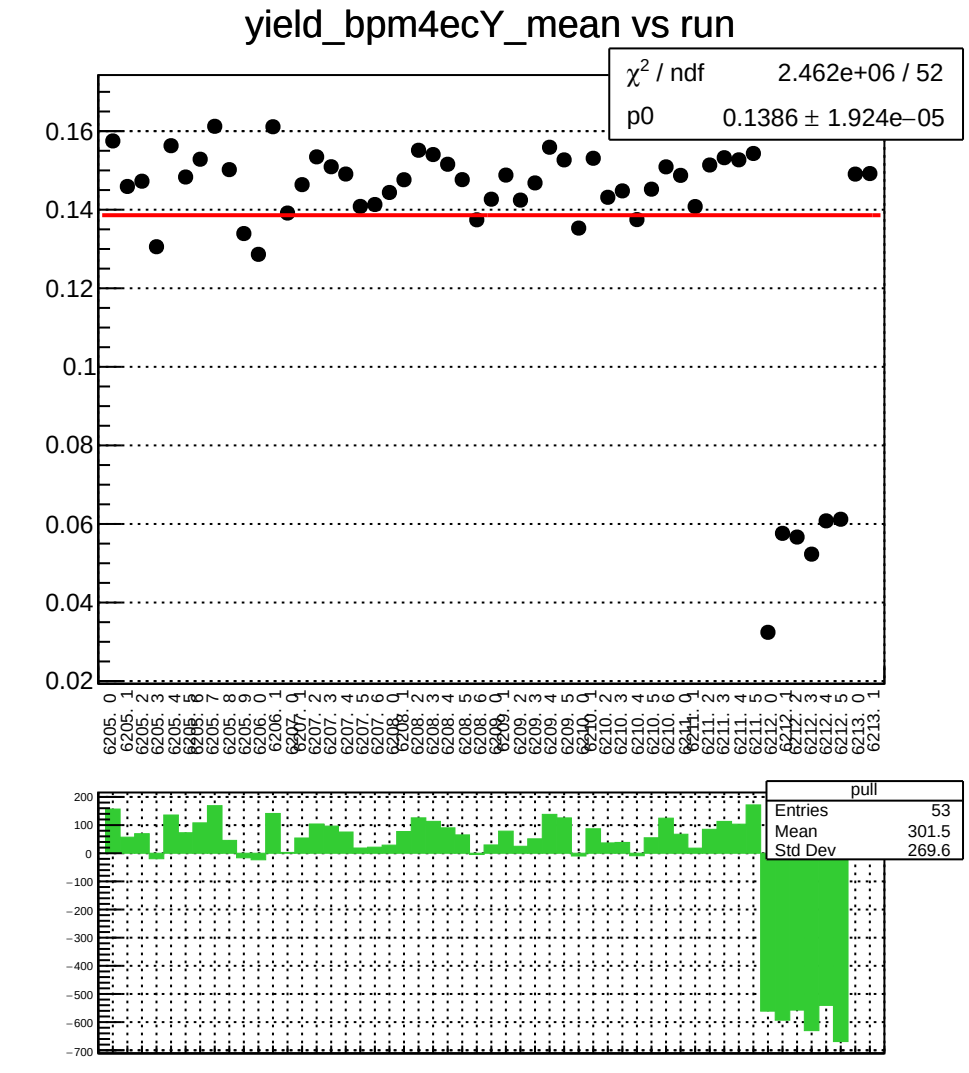

pull1D
Entries 53
Mean −2.865
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

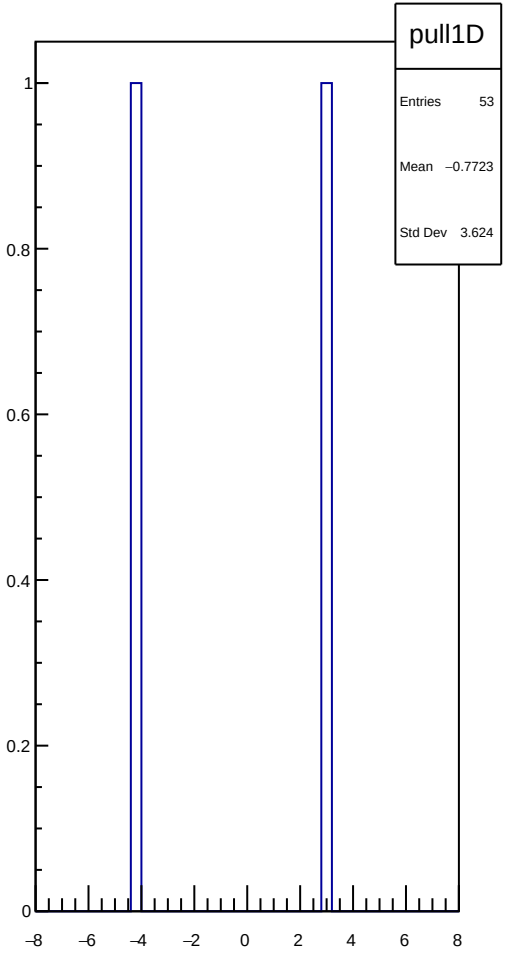

yield_bpm4acY_rms vs run
χ² / ndf 3.526e+04 / 52
p0 0.01575 ± 1.582e−05
0.035
0.03
0.025
0.02
0.015
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

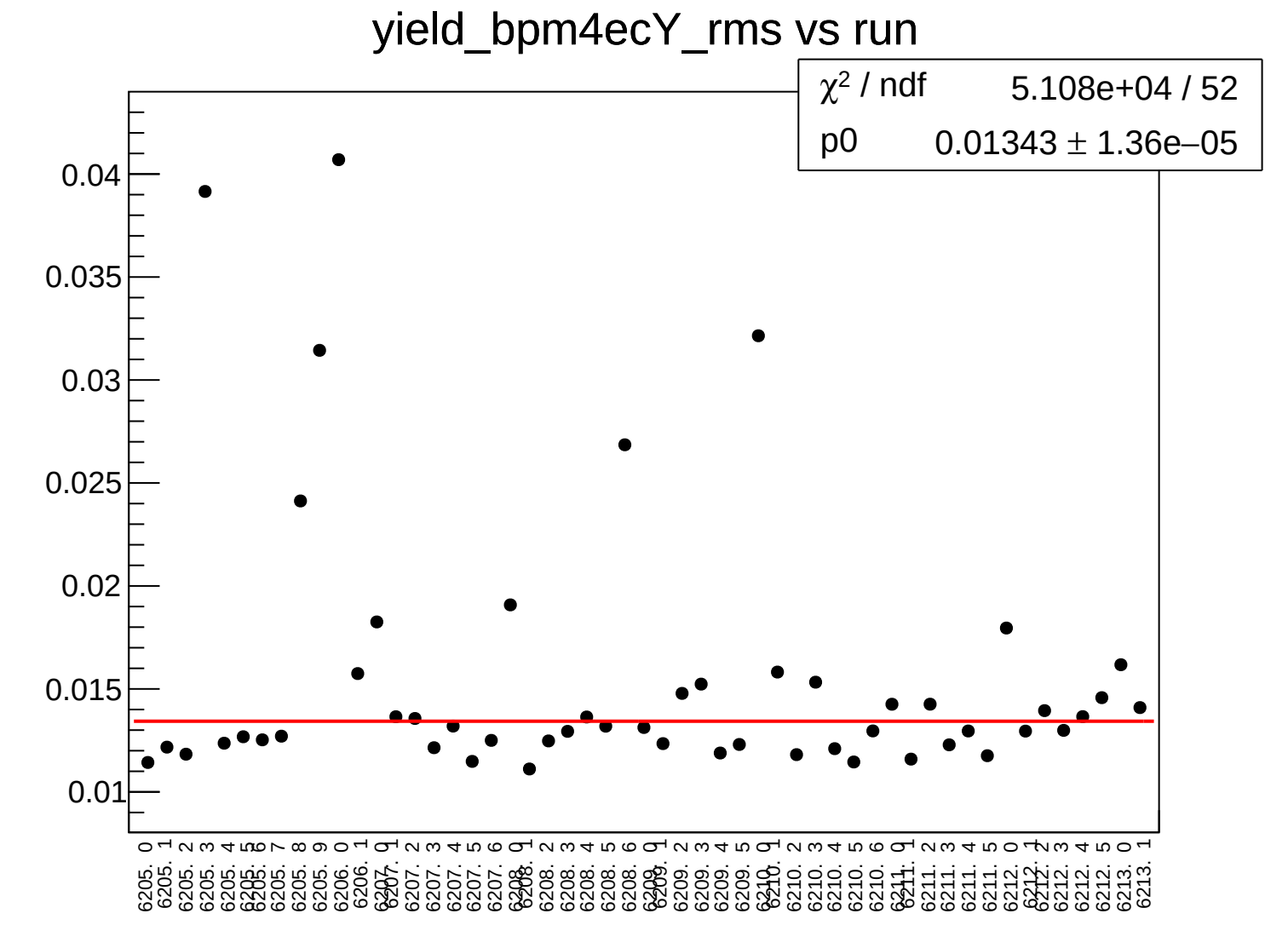

yield_bpm4ecX_mean vs run
χ² / ndf 2.997e+06 / 52
p0 −0.2314 ± 3.393e−05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 53
Mean −573.4
Std Dev 607.1
1000
800
600
400
200
0
−200

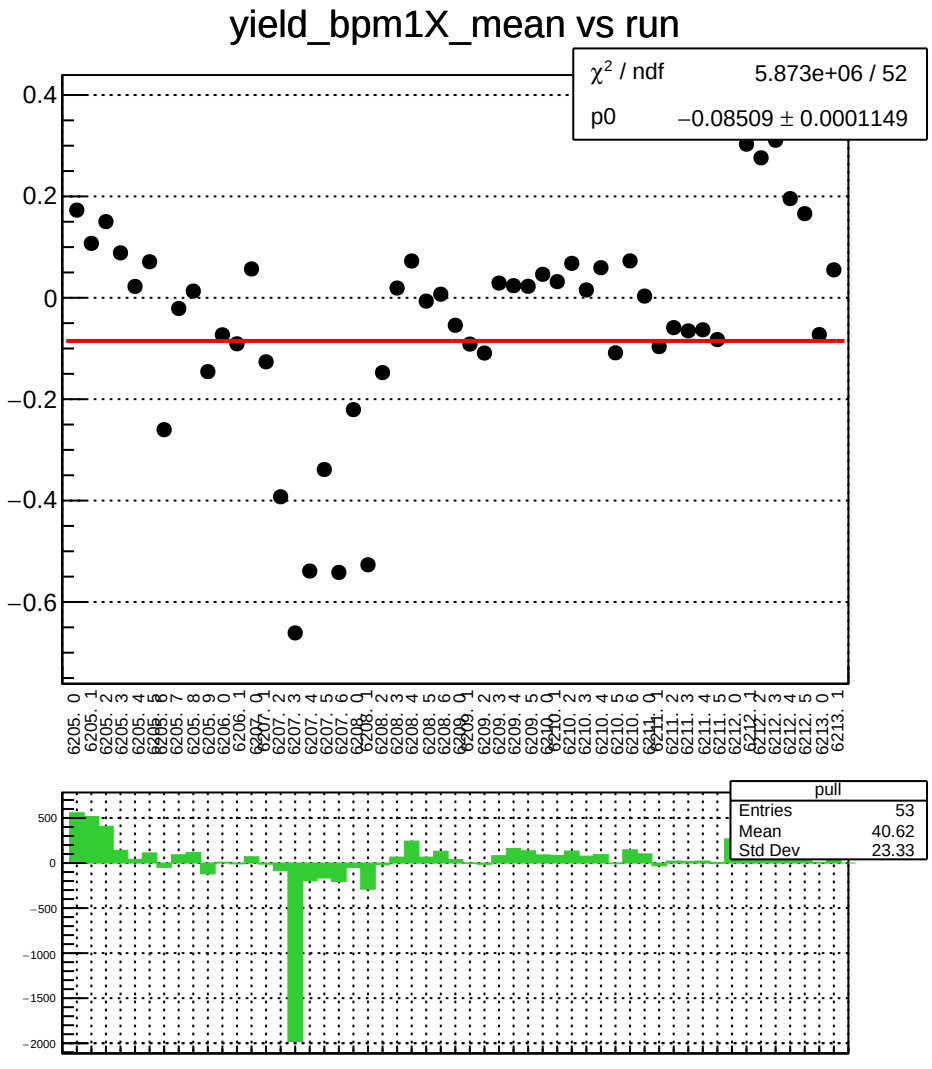

pull1D
Entries 53
Mean 0.928
Std Dev 1.023
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

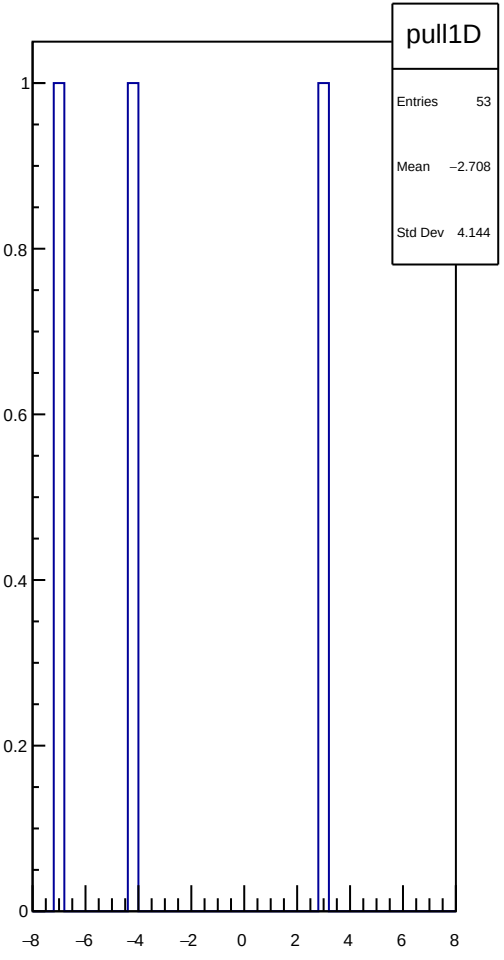

yield_bpm4ecX_rms vs run
χ² / ndf 1.885e+05 / 52
p0 0.02196 ± 2.399e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

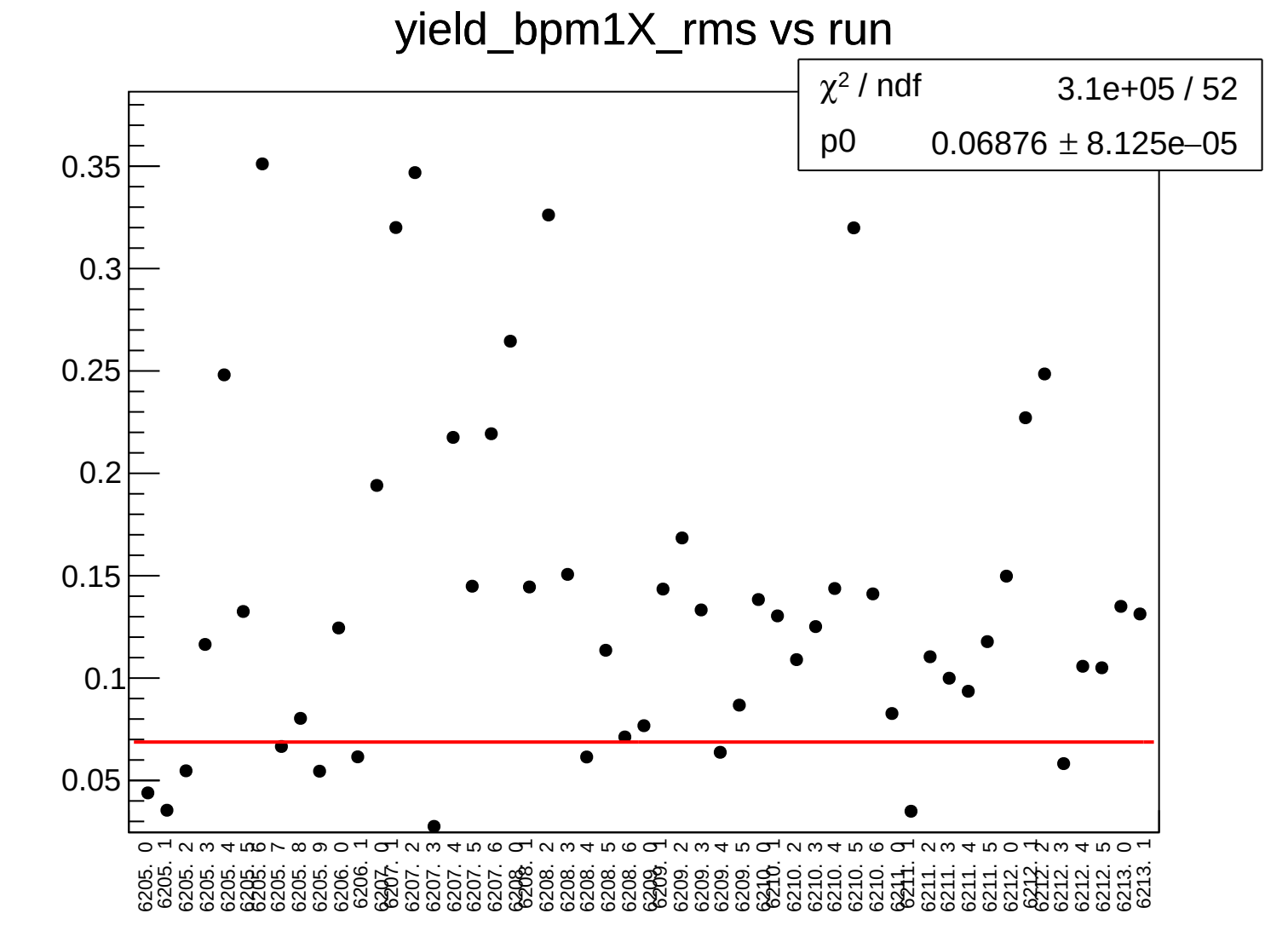

yield_bpm4ecY_mean vs run
χ² / ndf 2.462e+06 / 52
p0 0.1386 ± 1.924e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 53
Mean 301.5
Std Dev 269.6
200
100
0
−100
−200
−300
−400
−500
−600
−700

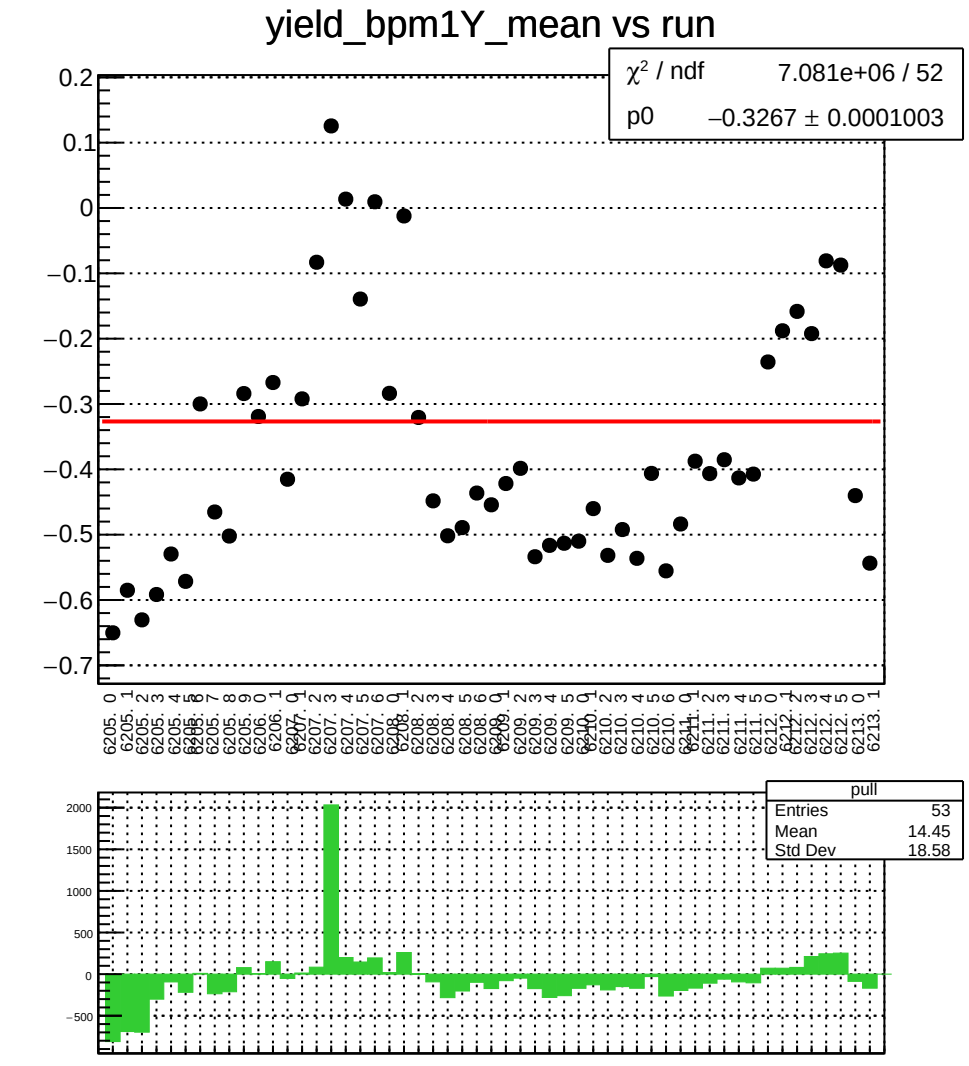

pull1D
Entries 53
Mean −0.7723
Std Dev 3.624
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

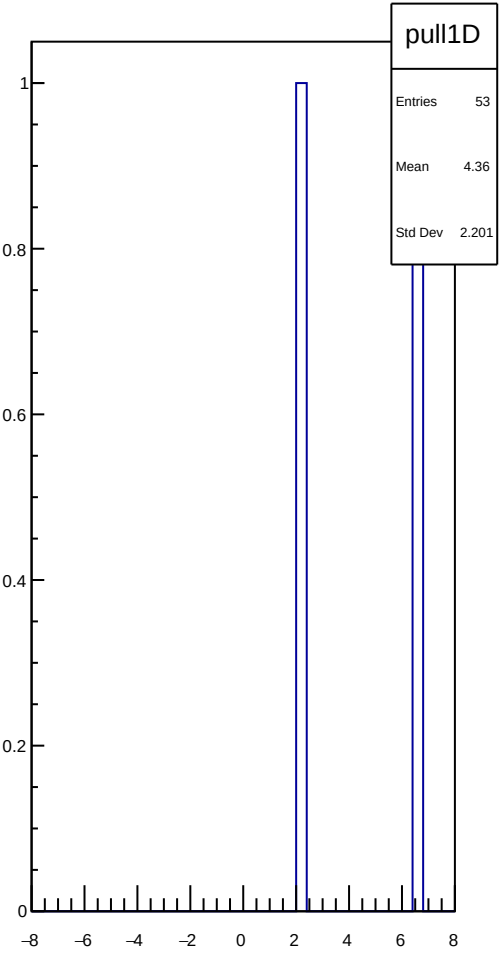

yield_bpm4ecY_rms vs run
χ² / ndf 5.108e+04 / 52
p0 0.01343 ± 1.36e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

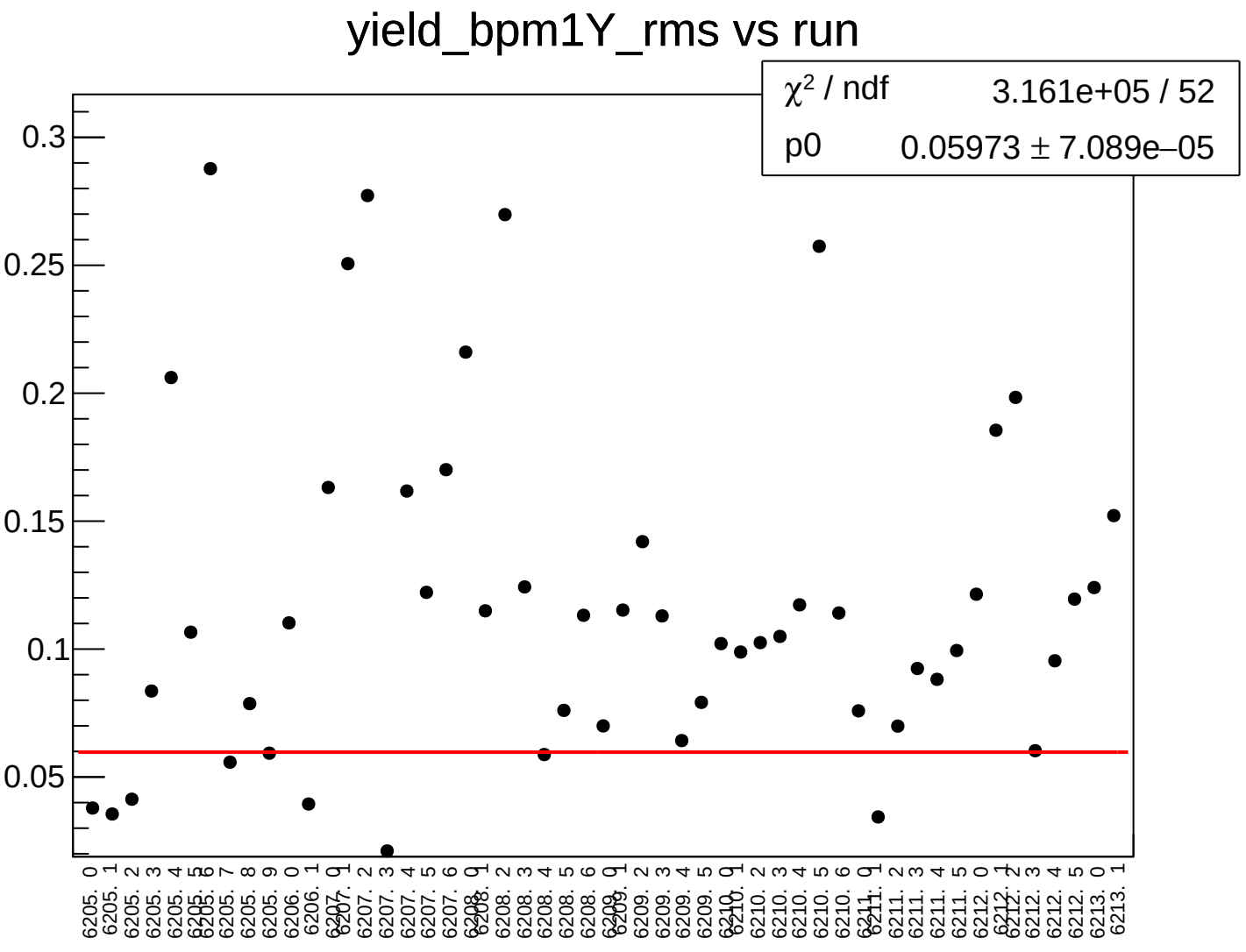

yield_bpm1X_mean vs run
χ² / ndf 5.873e+06 / 52
p0 −0.08509 ± 0.0001149
pull
Entries 53
Mean 40.62
Std Dev 23.33

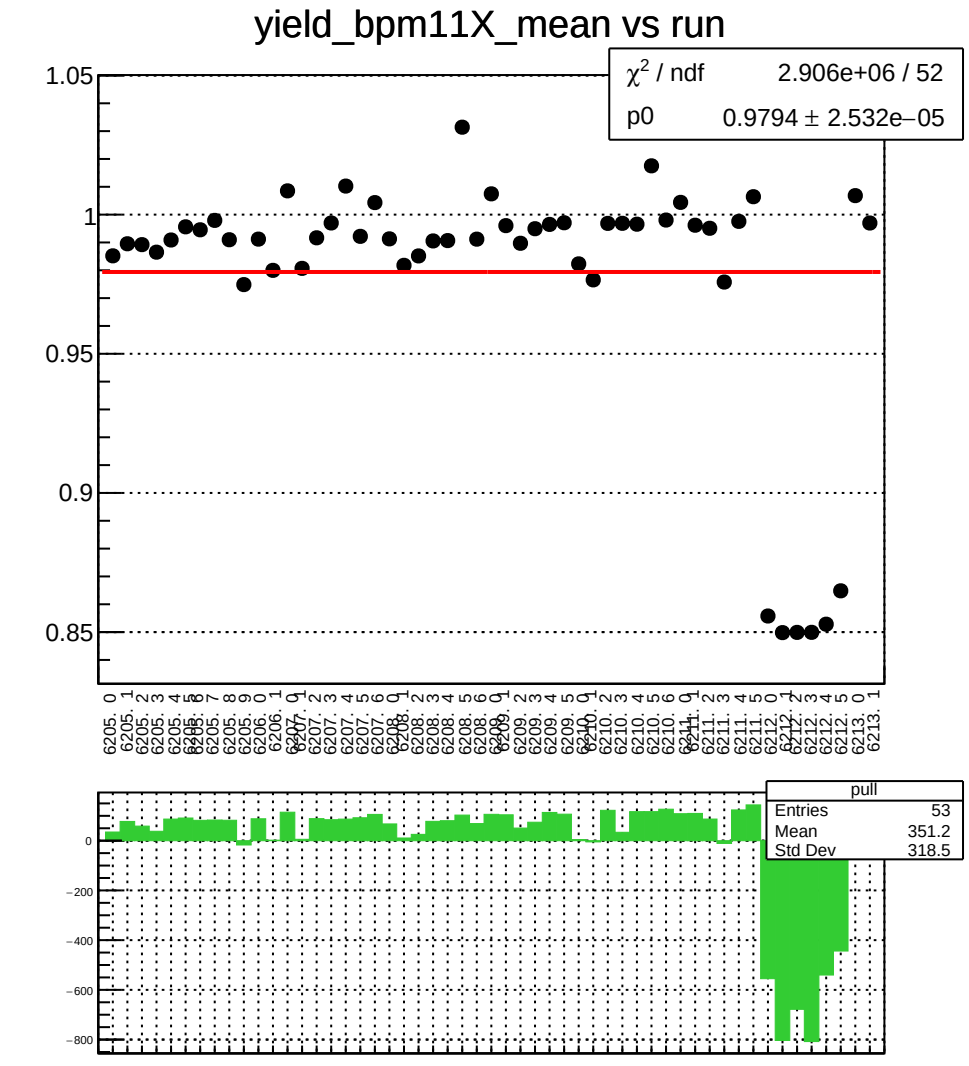

pull1D
Entries 53
Mean −2.708
Std Dev 4.144

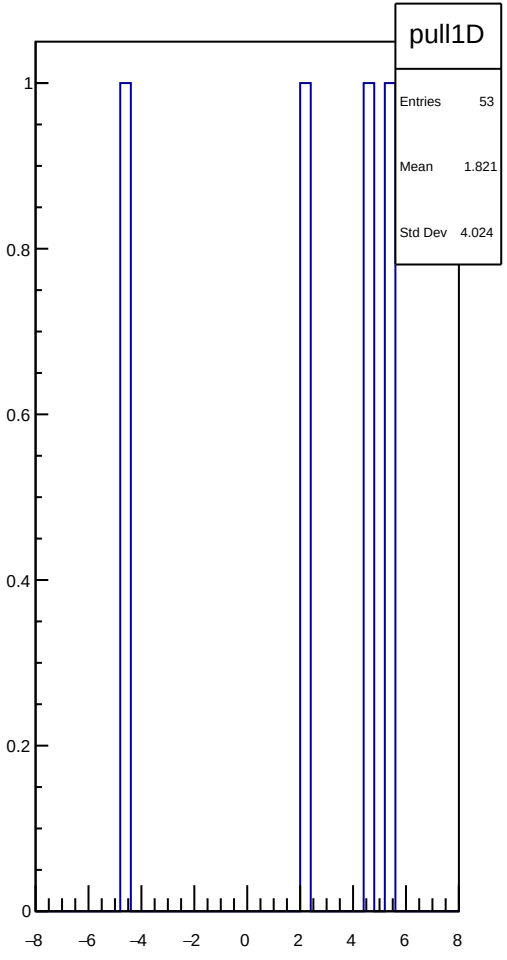

yield_bpm1X_rms vs run
χ² / ndf 3.1e+05 / 52
p0 0.06876 ± 8.125e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

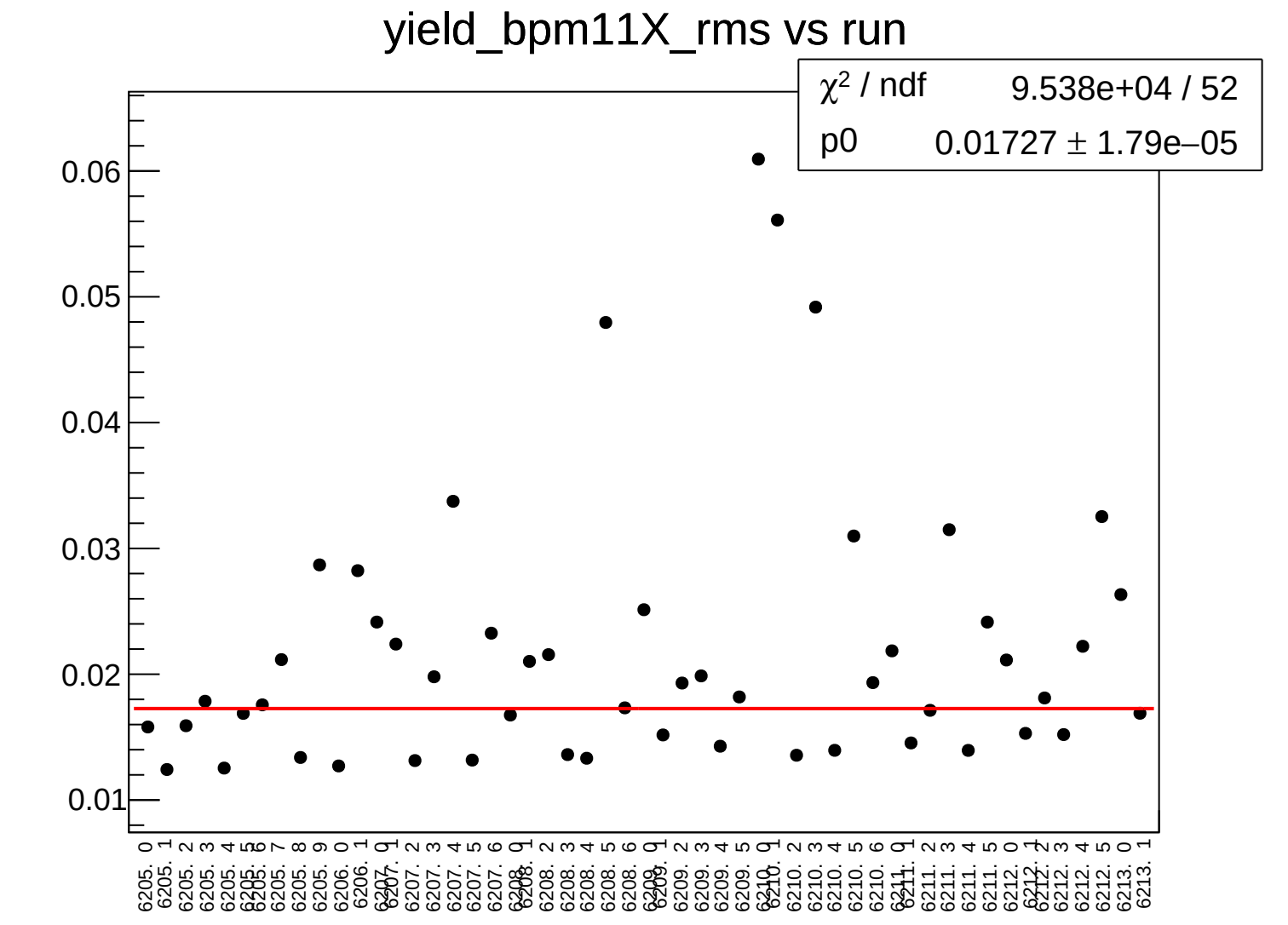

yield_bpm1Y_mean vs run
χ² / ndf 7.081e+06 / 52
p0 −0.3267 ± 0.0001003
pull
Entries 53
Mean 14.45
Std Dev 18.58

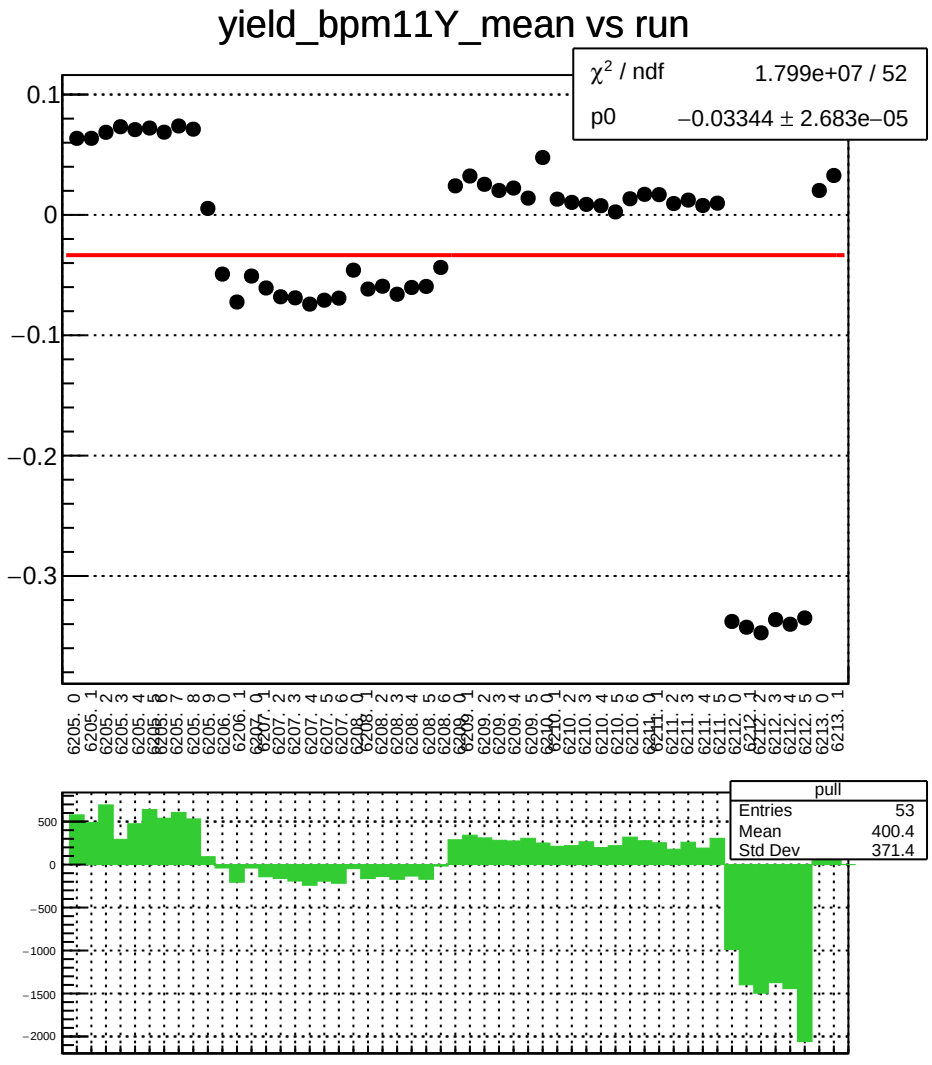

pull1D
Entries 53
Mean 4.36
Std Dev 2.201

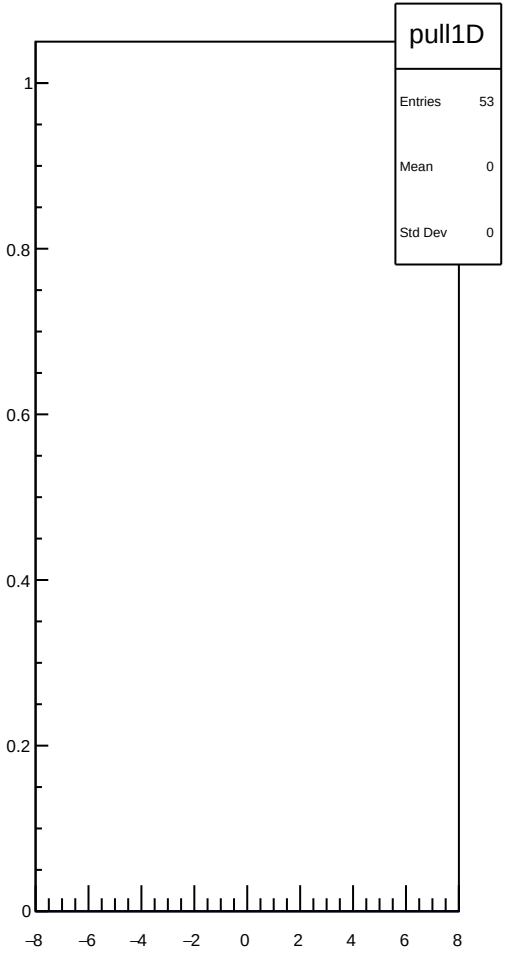

yield_bpm1Y_rms vs run
χ² / ndf 3.161e+05 / 52
p0 0.05973 ± 7.089e−05
0.3
0.25
0.2
0.15
0.1
0.05
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

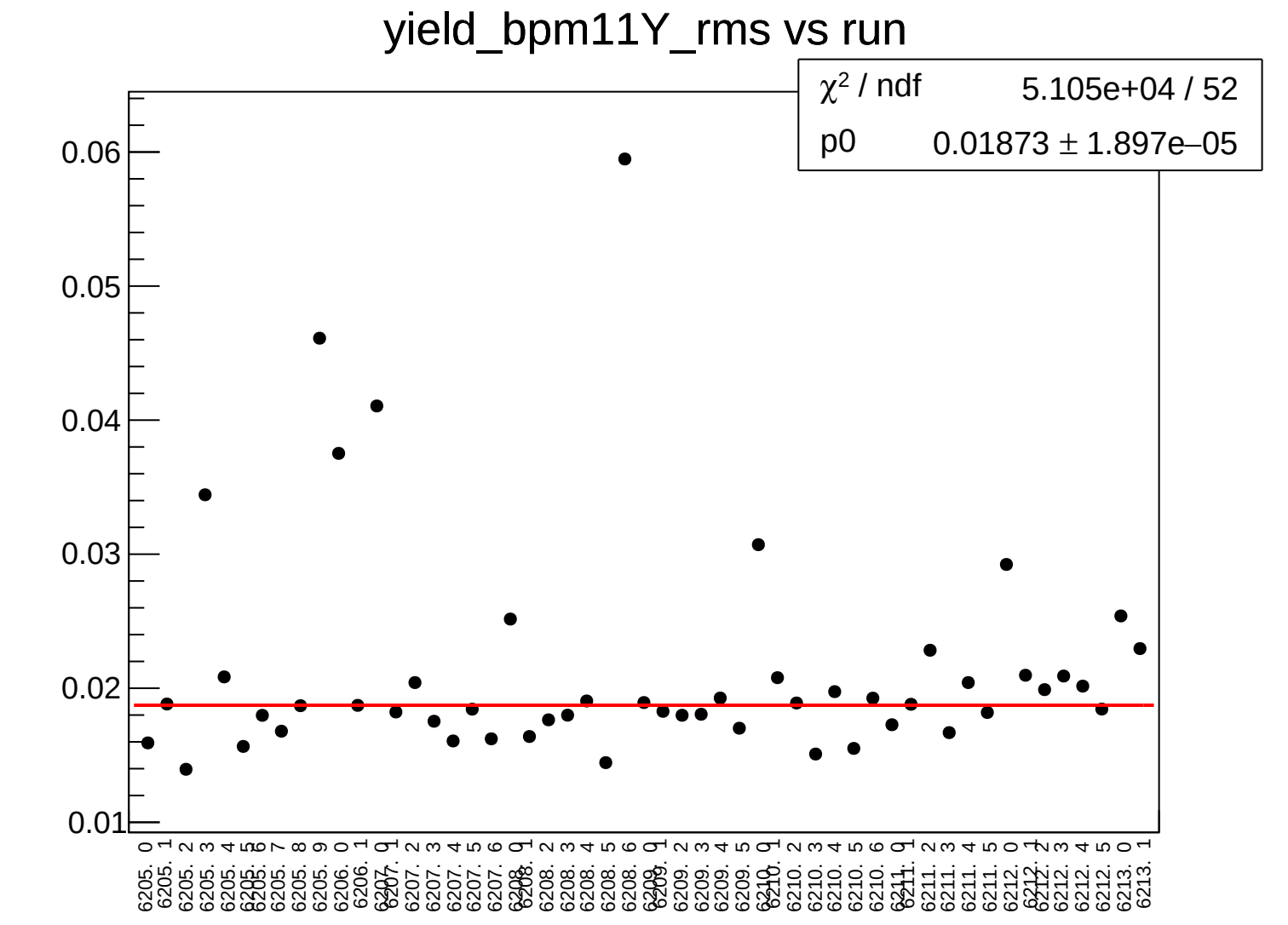

yield_bpm11X_mean vs run
χ² / ndf 2.906e+06 / 52
p0 0.9794 ± 2.532e−05
1.05
1
0.95
0.9
0.85
pull
Entries 53
Mean 351.2
Std Dev 318.5
0
−200
−400
−600
−800

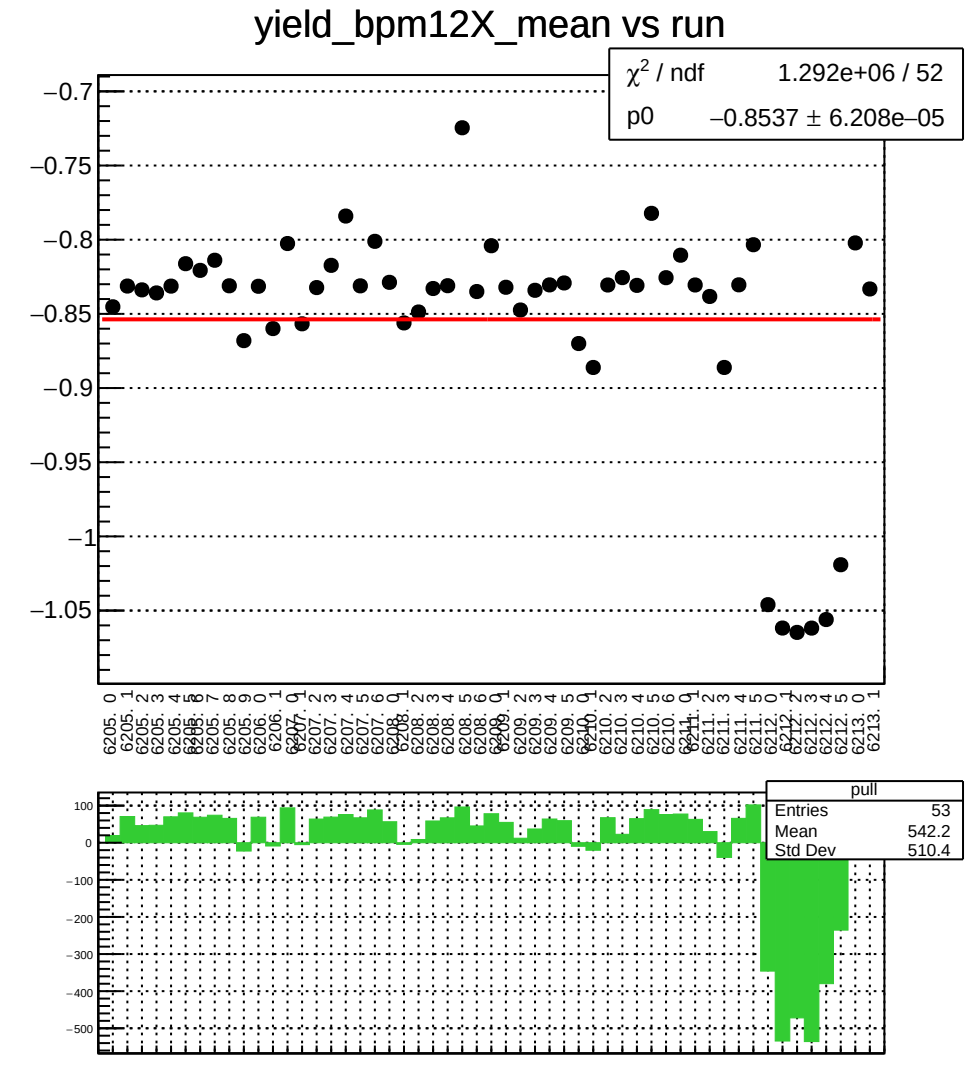

pull1D
Entries 53
Mean 1.821
Std Dev 4.024
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

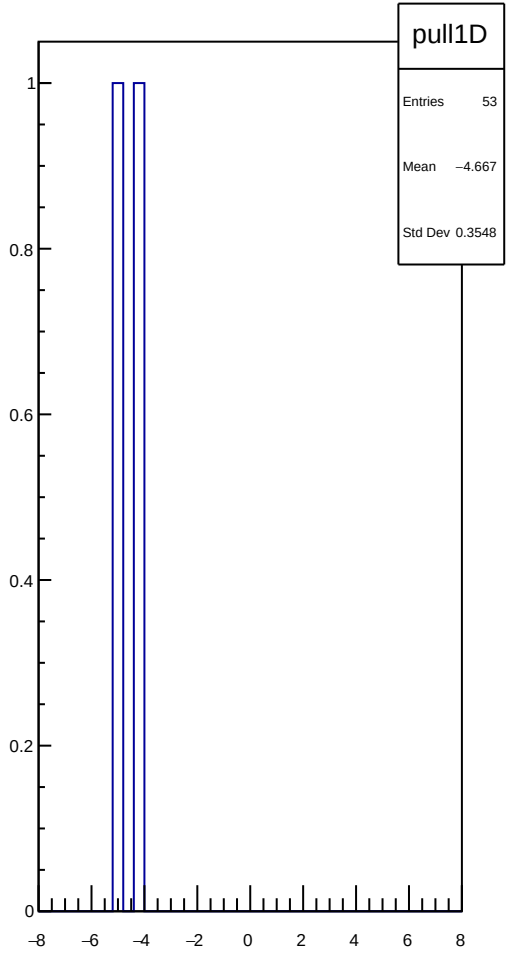

yield_bpm11X_rms vs run
χ² / ndf 9.538e+04 / 52
p0 0.01727 ± 1.79e−05
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

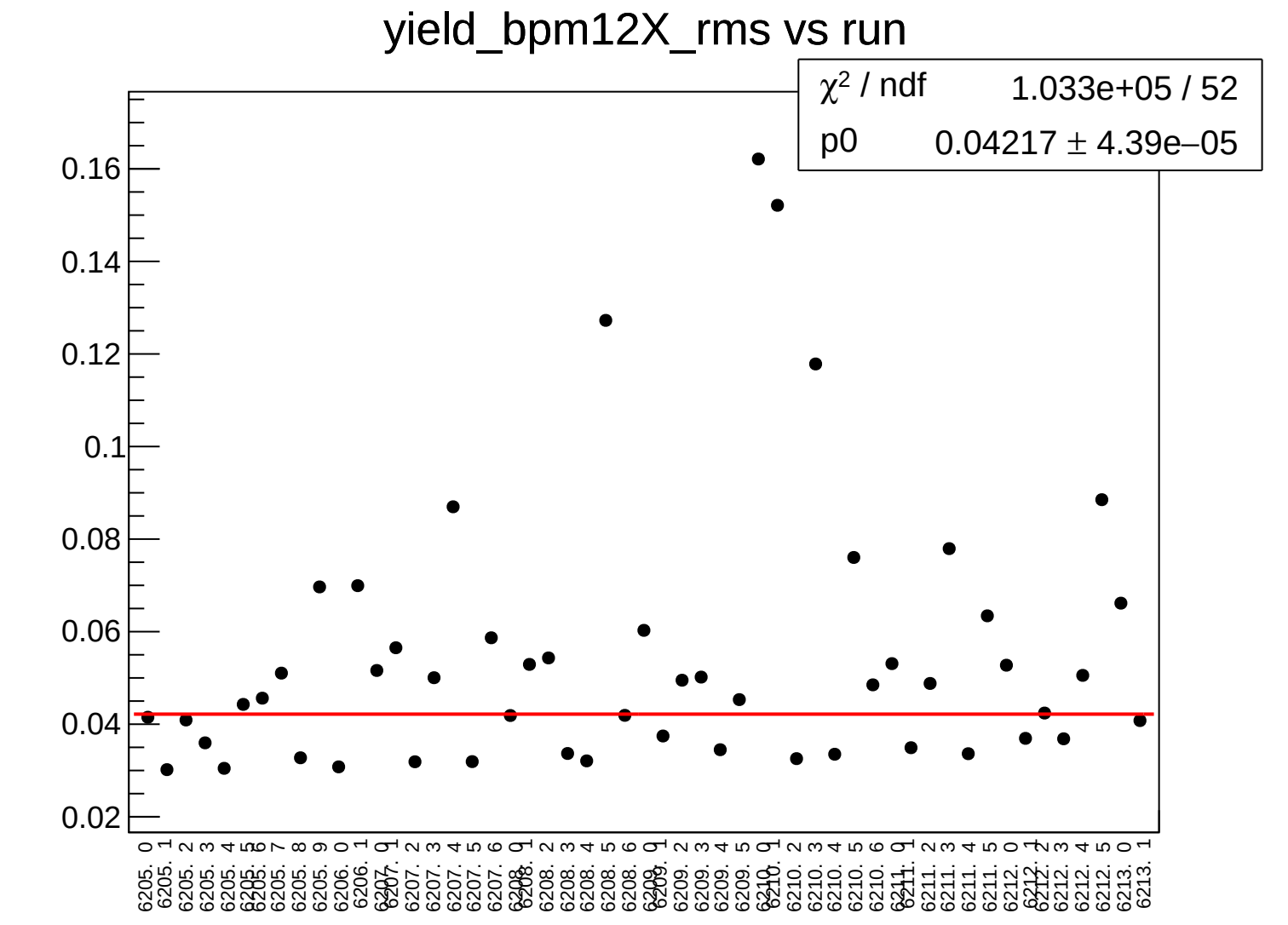

yield_bpm11Y_mean vs run
χ² / ndf 1.799e+07 / 52
p0 −0.03344 ± 2.683e−05
pull
Entries 53
Mean 400.4
Std Dev 371.4


pull1D
Entries 53
Mean 0
Std Dev 0


yield_bpm11Y_rms vs run
χ² / ndf 5.105e+04 / 52
p0 0.01873 ± 1.897e−05
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1


yield_bpm12X_mean vs run
χ² / ndf 1.292e+06 / 52
p0 −0.8537 ± 6.208e−05
pull
Entries 53
Mean 542.2
Std Dev 510.4


pull1D
Entries 53
Mean −4.667
Std Dev 0.3548


yield_bpm12X_rms vs run
χ² / ndf 1.033e+05 / 52
p0 0.04217 ± 4.39e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
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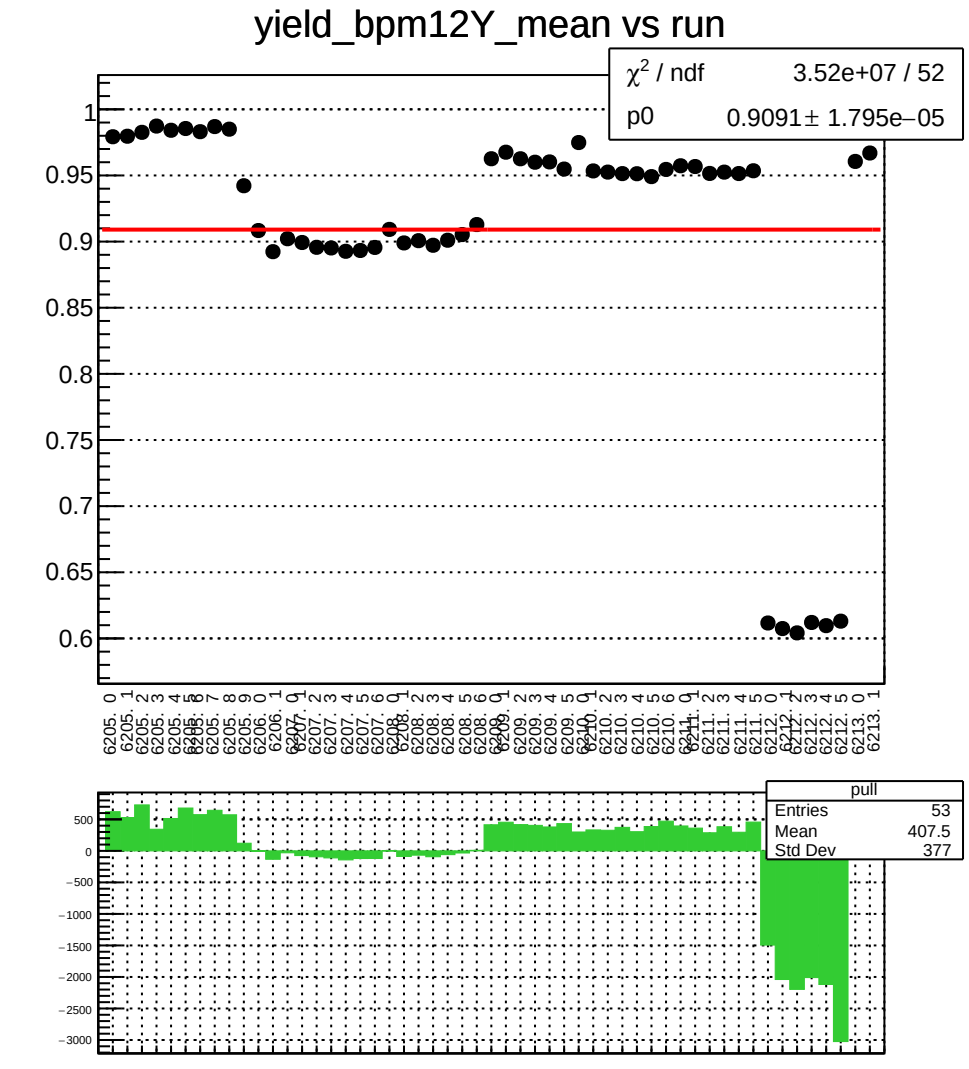
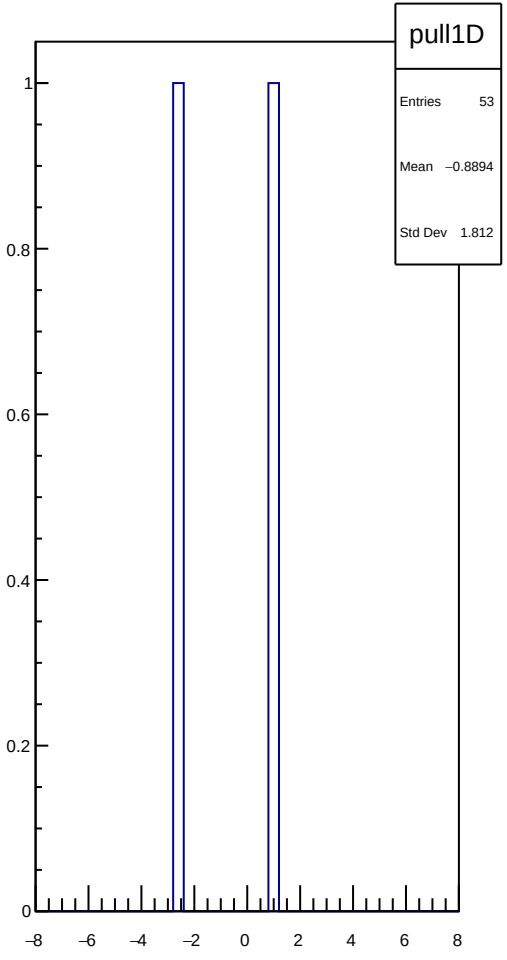
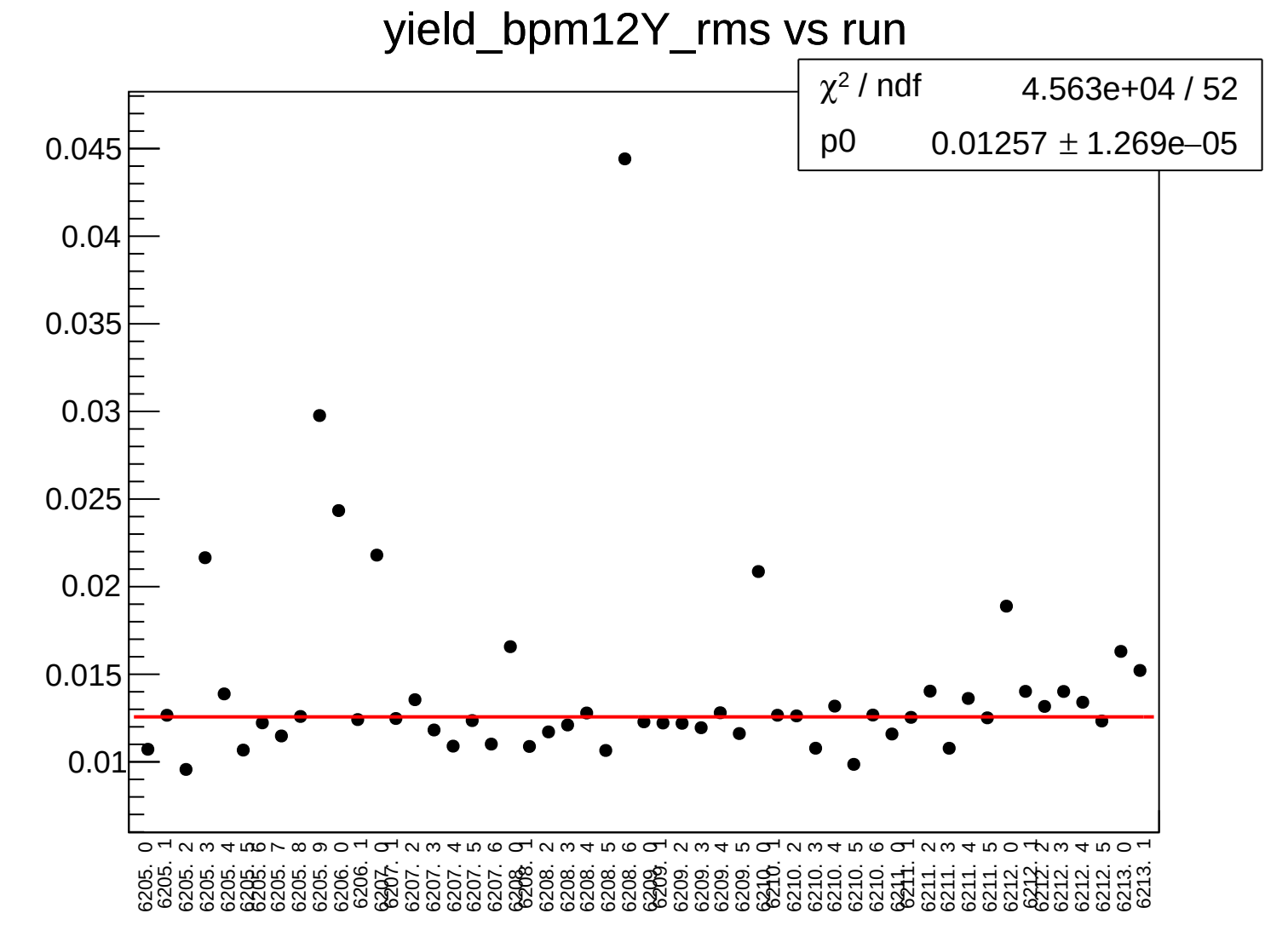
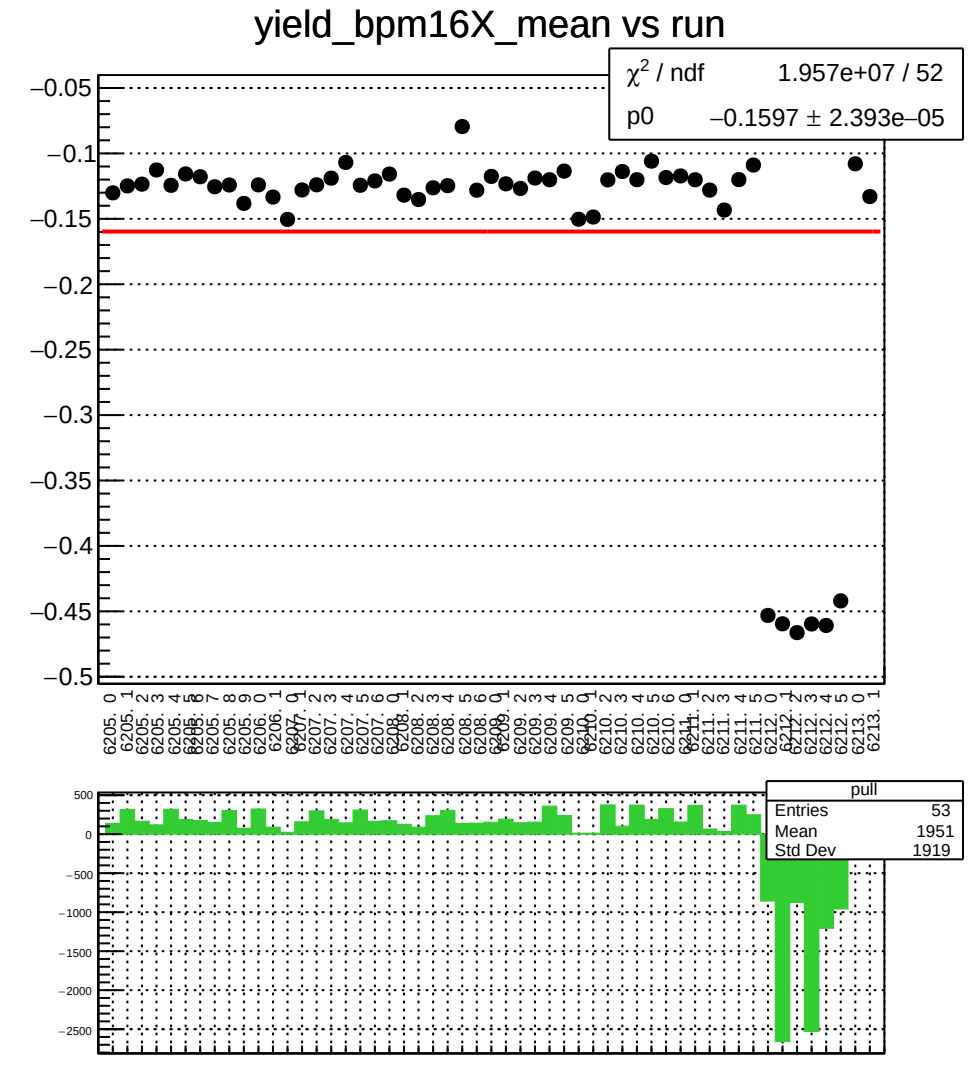
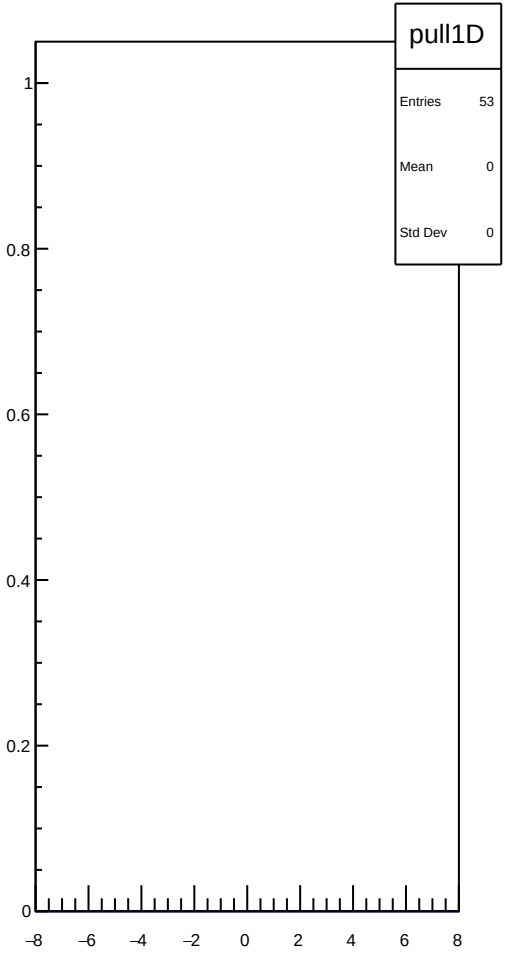
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

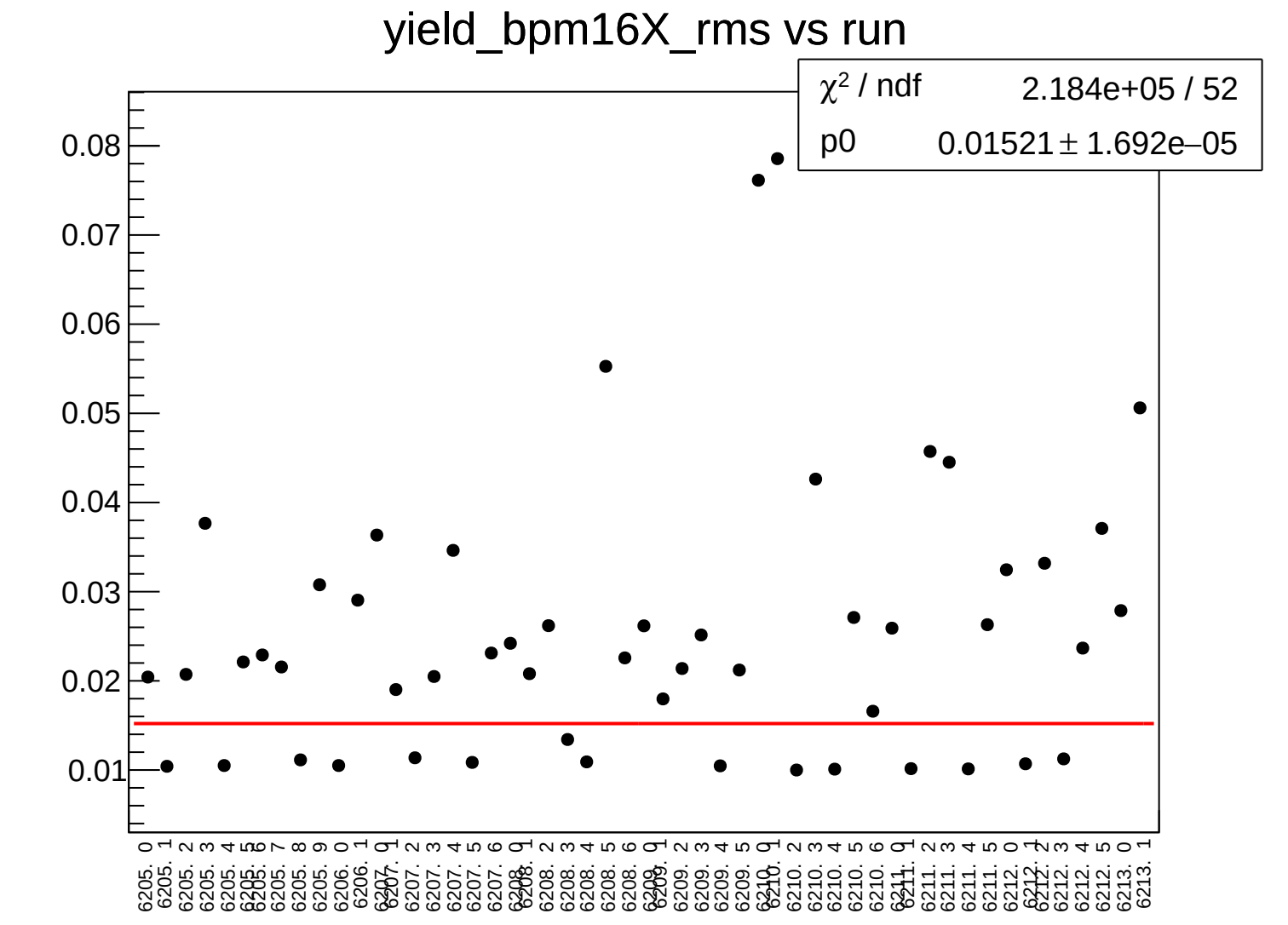

yield_bpm12Y_mean vs run
χ² / ndf 3.52e+07 / 52
p0 0.9091 ± 1.795e−05
pull
Entries 53
Mean 407.5
Std Dev 377

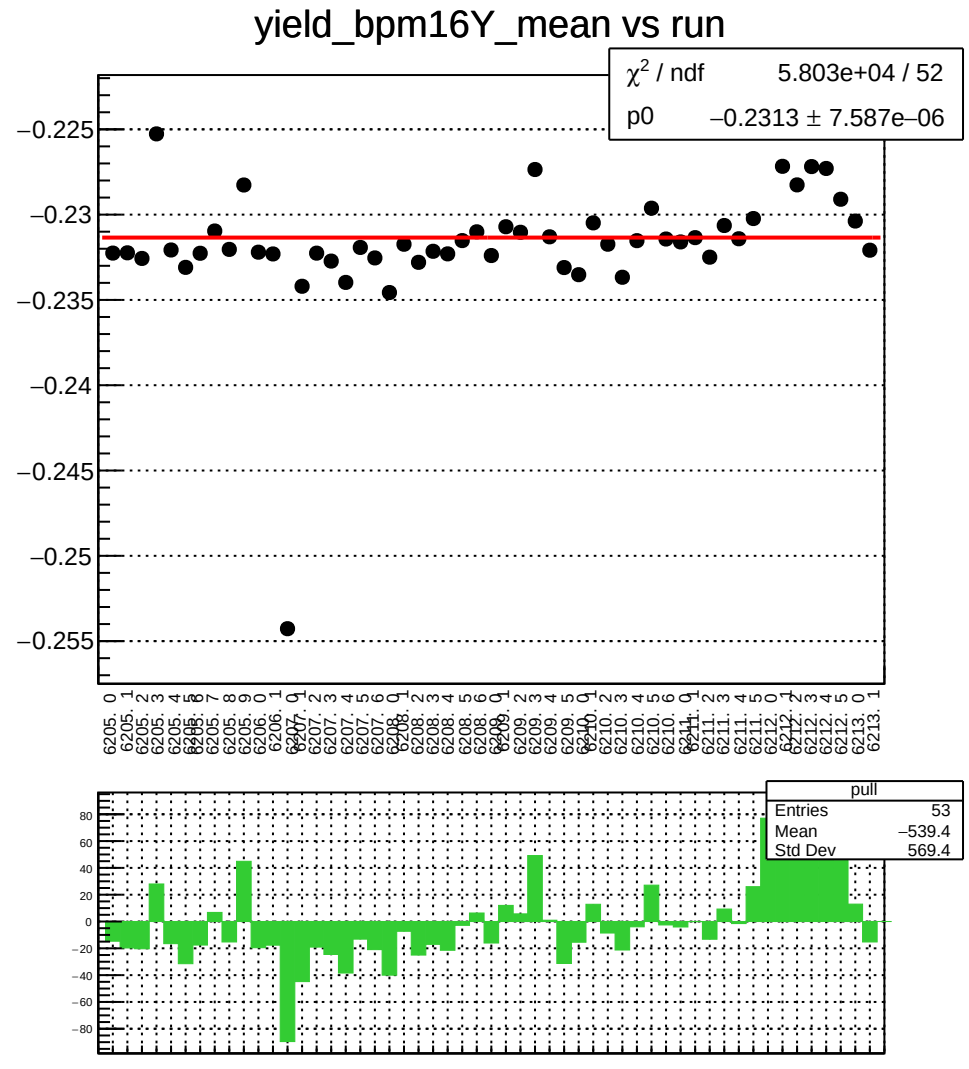

pull1D
Entries 53
Mean −0.8894
Std Dev 1.812

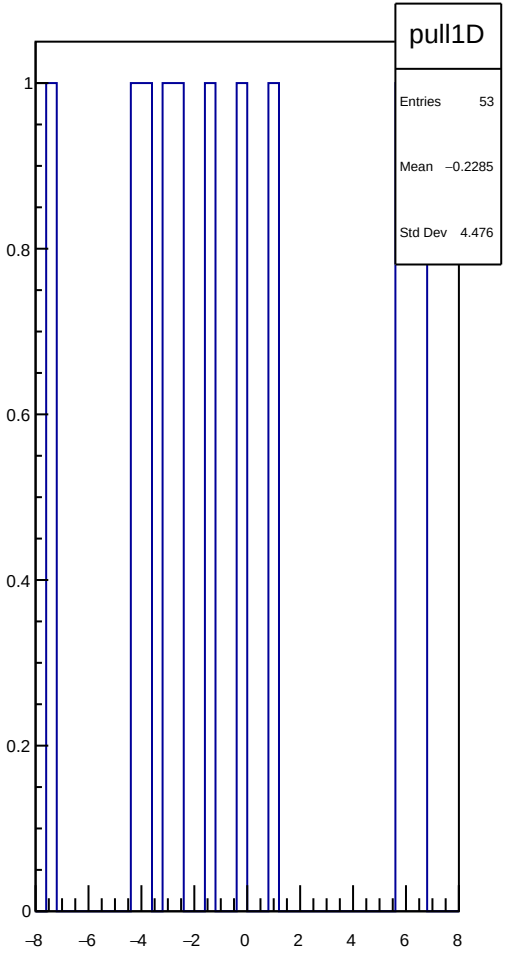

yield_bpm12Y_rms vs run
χ² / ndf 4.563e+04 / 52
p0 0.01257 ± 1.269e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

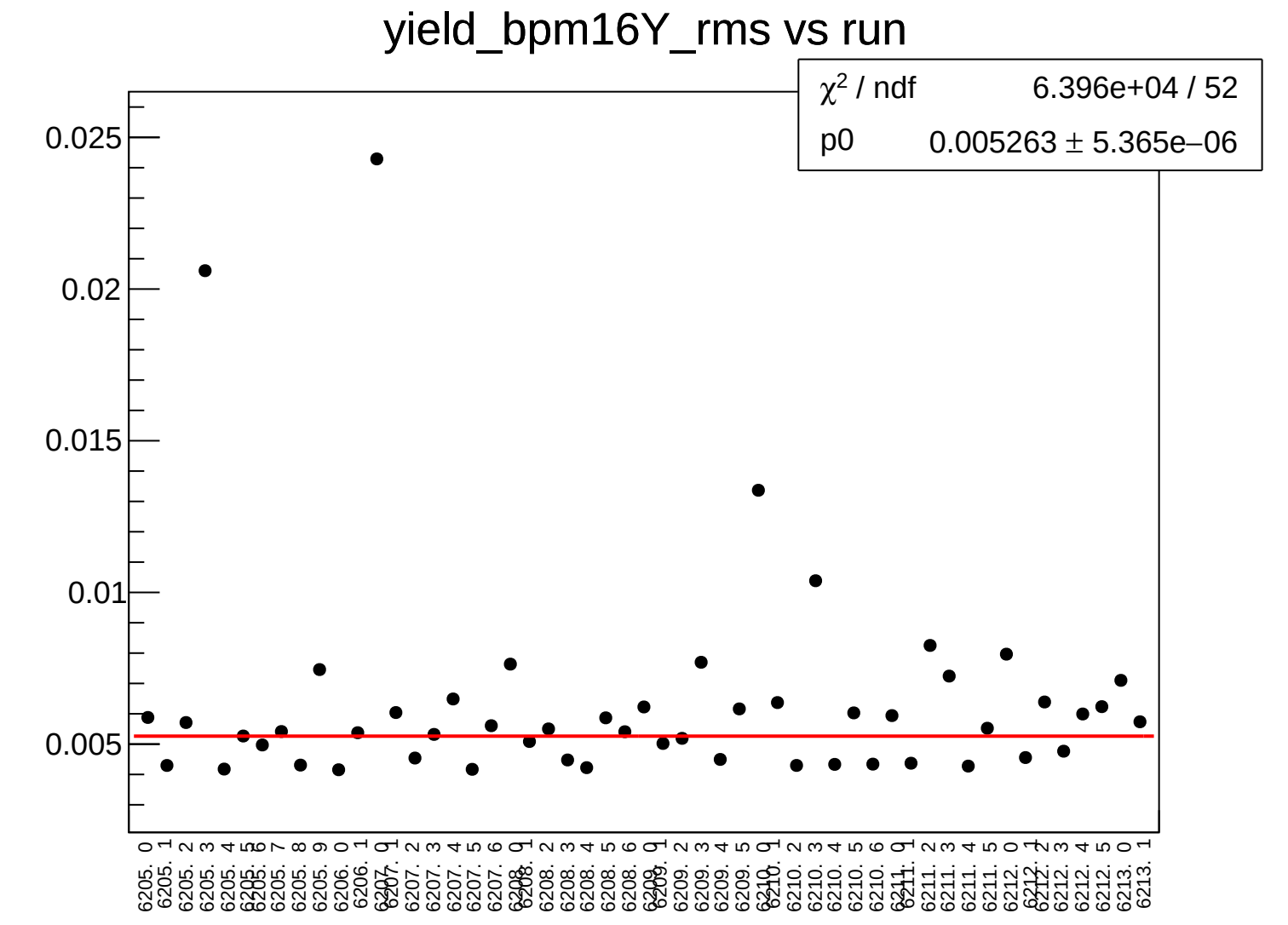

yield_bpm16X_mean vs run
χ² / ndf 1.957e+07 / 52
p0 −0.1597 ± 2.393e−05
pull
Entries 53
Mean 1951
Std Dev 1919

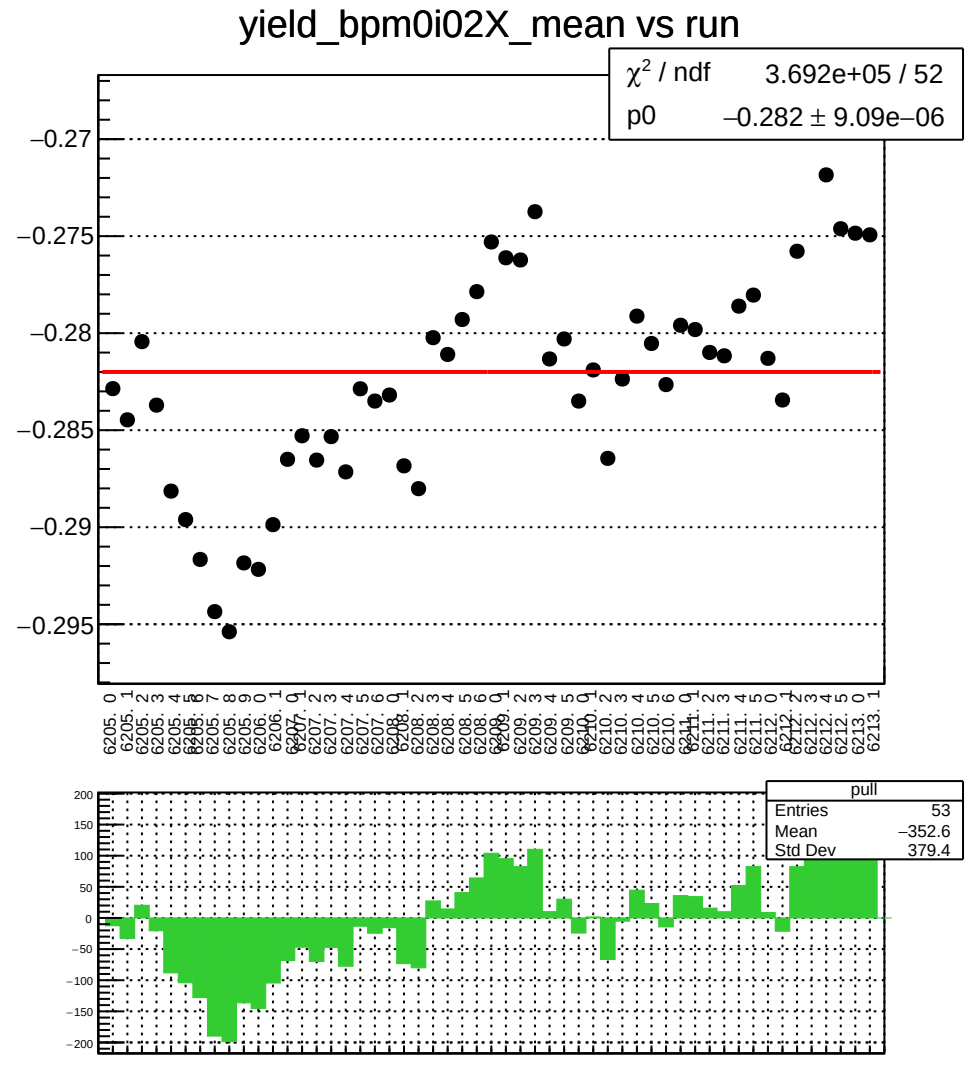

pull1D
Entries 53
Mean 0
Std Dev 0

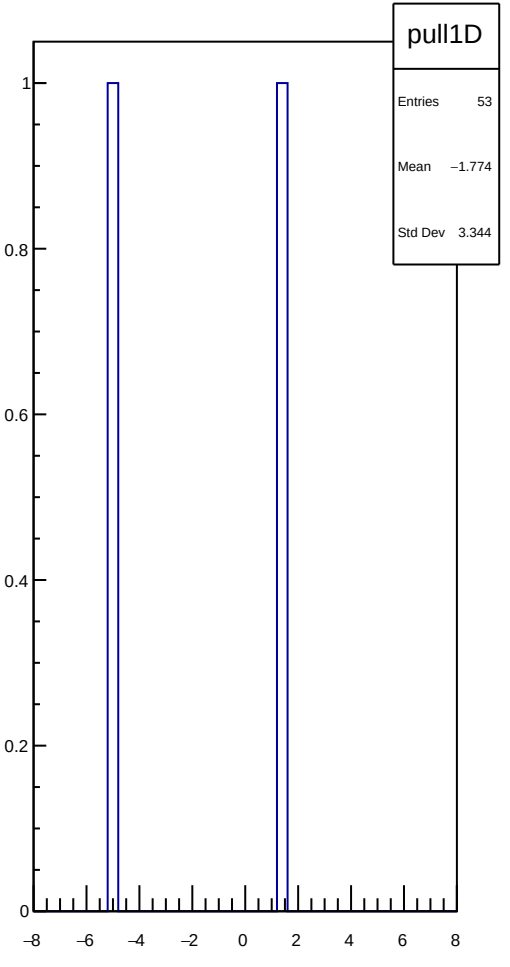

yield_bpm16X_rms vs run
χ² / ndf 2.184e+05 / 52
p0 0.01521 ± 1.692e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

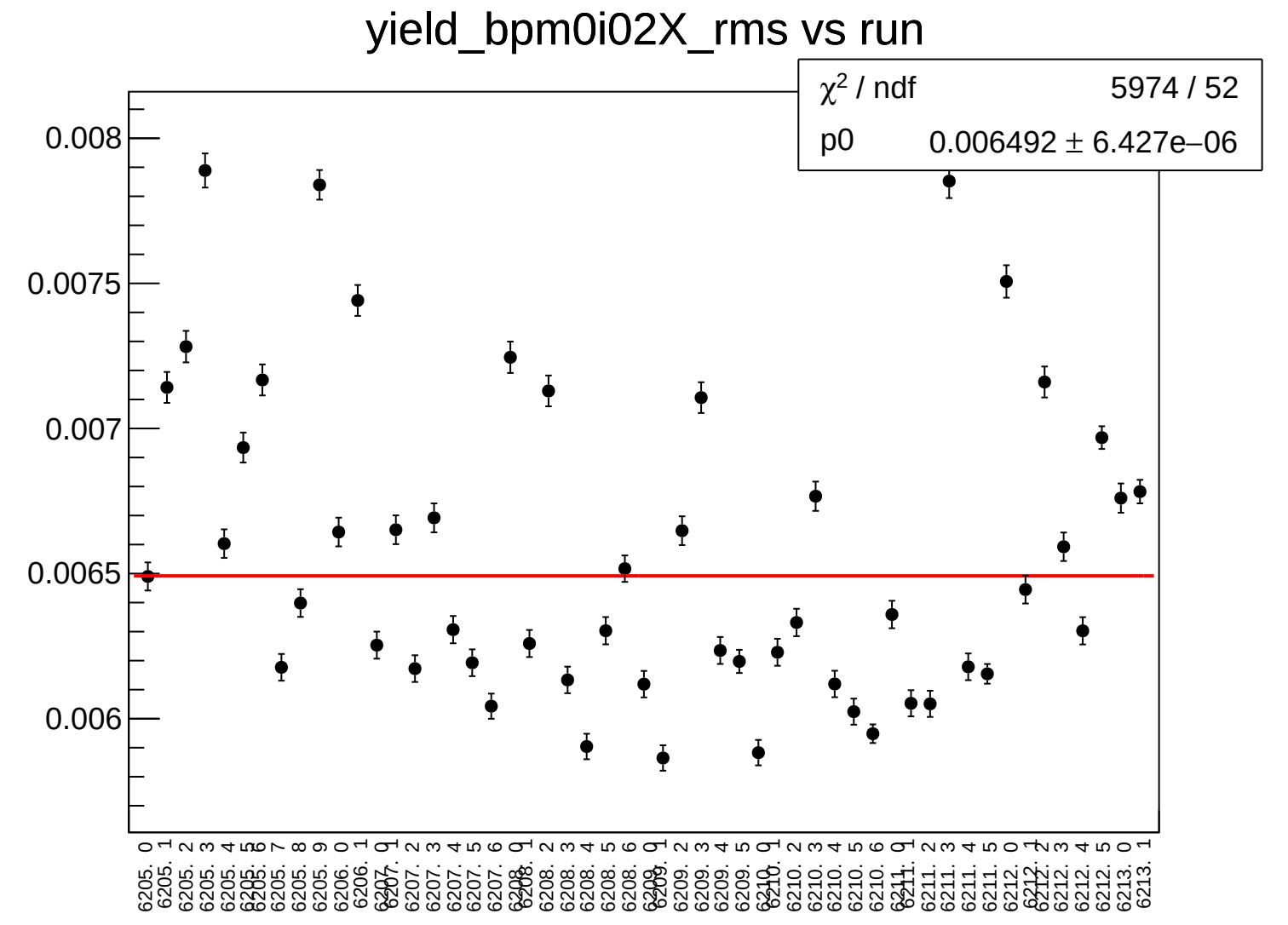

yield_bpm16Y_mean vs run
χ² / ndf 5.803e+04 / 52
p0 −0.2313 ± 7.587e−06
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
−0.255
pull
Entries 53
Mean −539.4
Std Dev 569.4
80
60
40
20
0
−20
−40
−60
−80

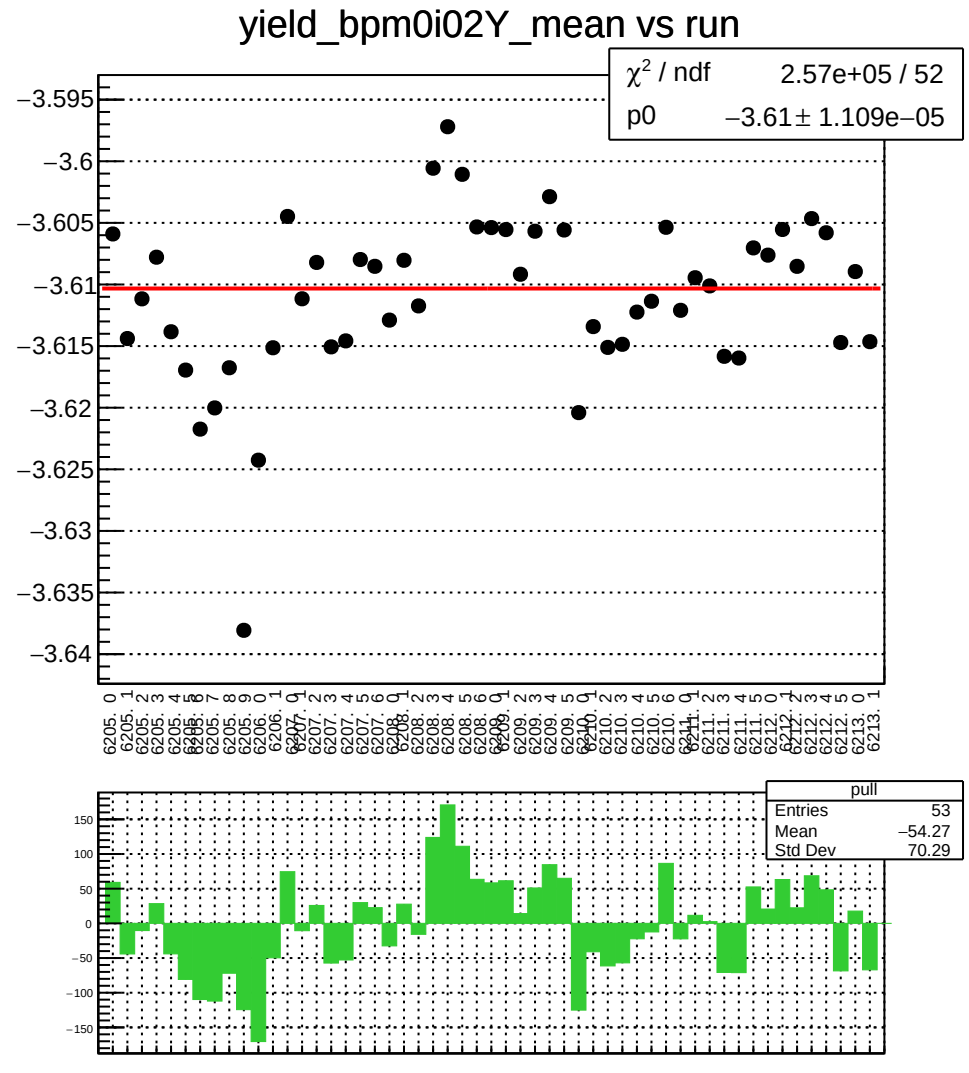

pull1D
Entries 53
Mean −0.2285
Std Dev 4.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

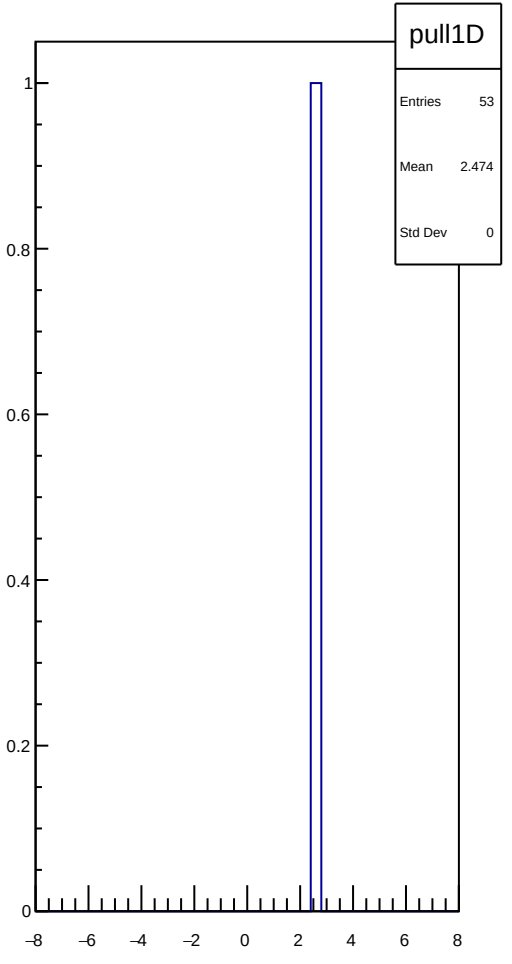

yield_bpm16Y_rms vs run
χ² / ndf 6.396e+04 / 52
p0 0.005263 ± 5.365e−06
0.025
0.02
0.015
0.01
0.005
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

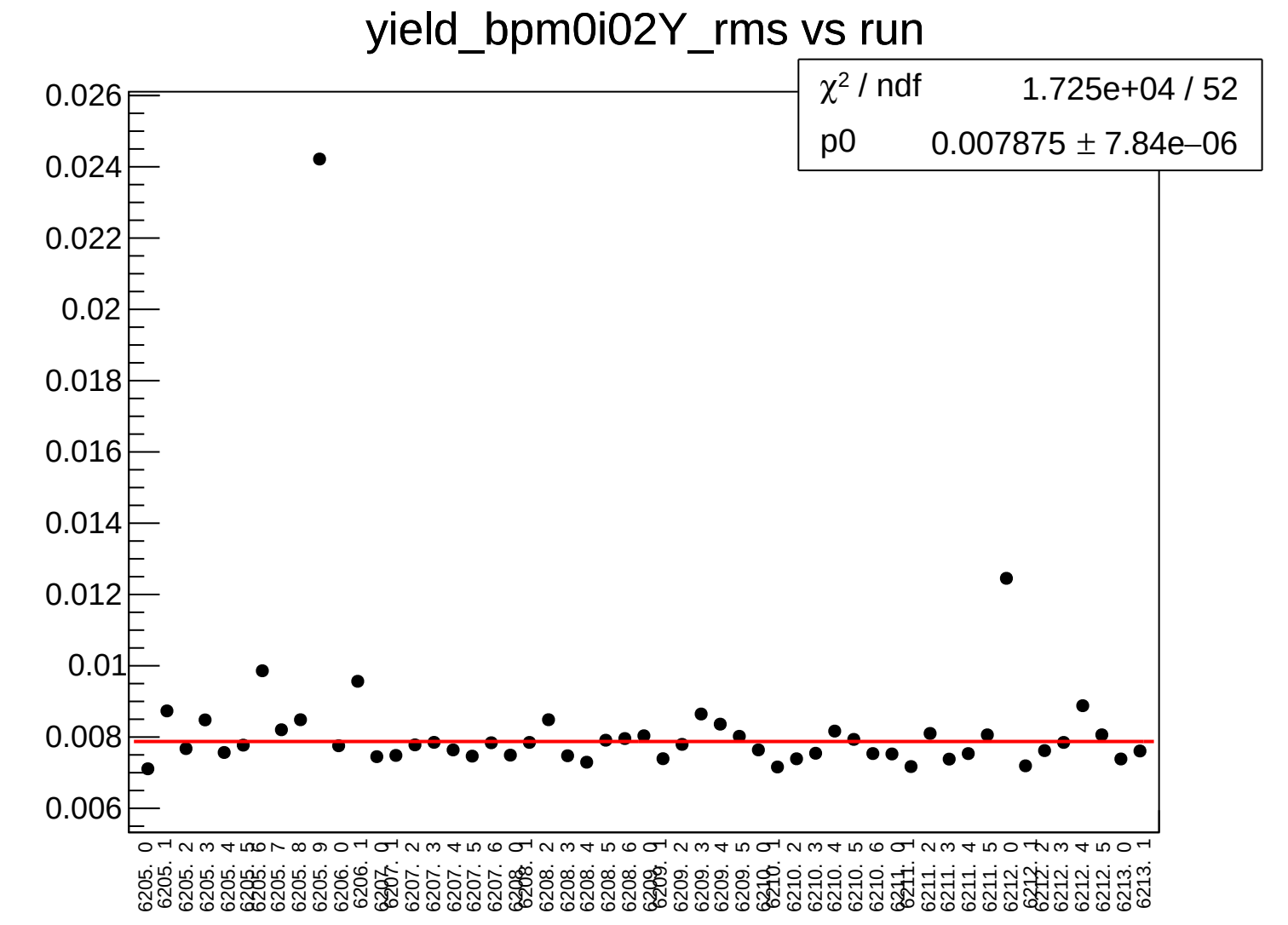

yield_bpm0i02X_mean vs run
χ² / ndf 3.692e+05 / 52
p0 −0.282 ± 9.09e−06
−0.27
−0.275
−0.28
−0.285
−0.29
−0.295
pull
Entries 53
Mean −352.6
Std Dev 379.4
200
150
100
50
0
−50
−100
−150
−200

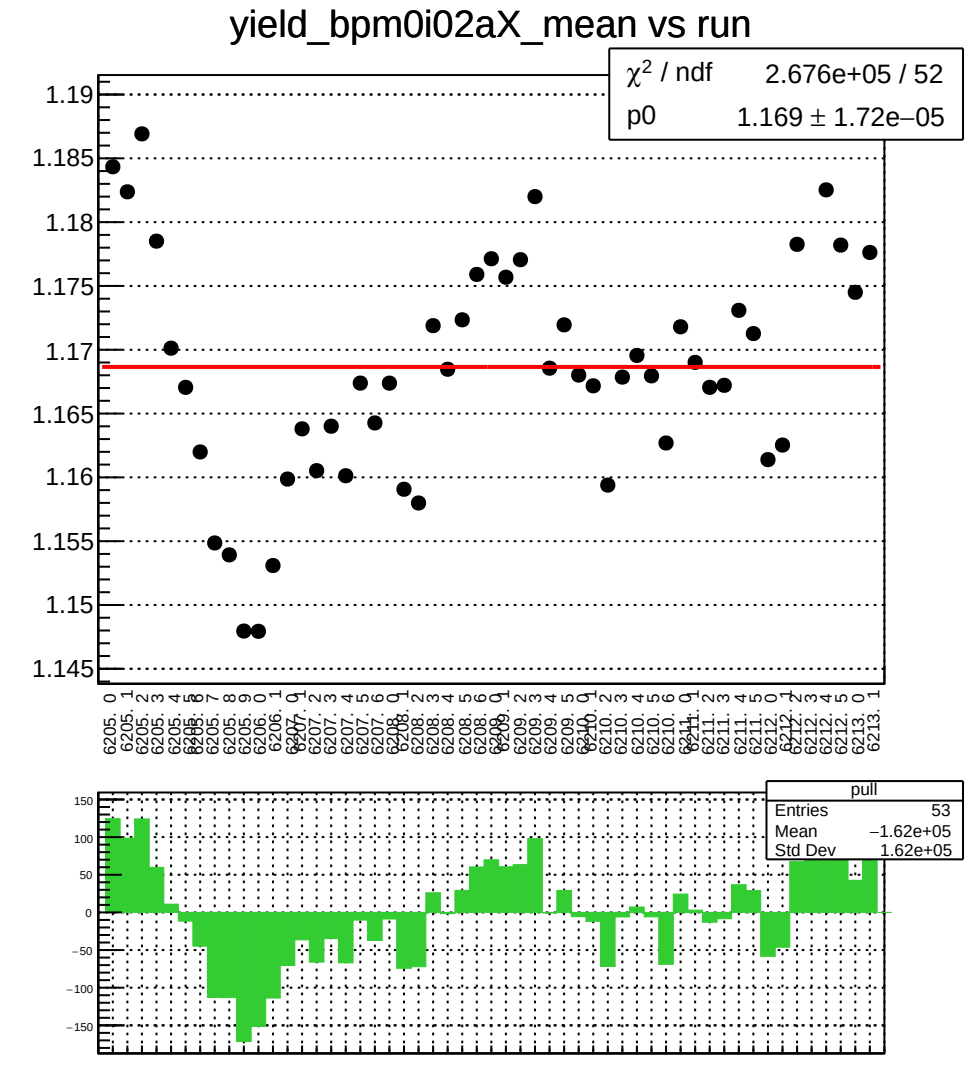

pull1D
Entries 53
Mean −1.774
Std Dev 3.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

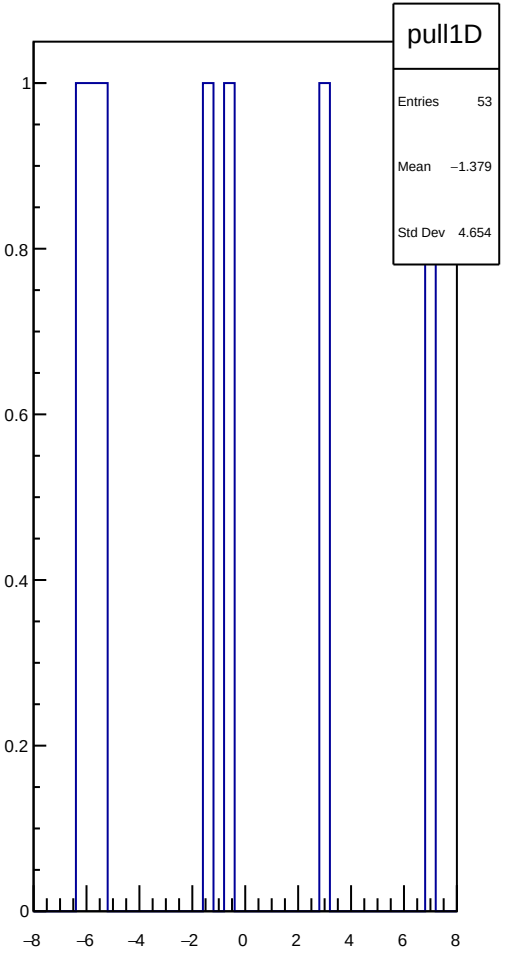

yield_bpm0i02X_rms vs run
χ² / ndf 5974 / 52
p0 0.006492 ± 6.427e−06
0.008
0.0075
0.007
0.0065
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

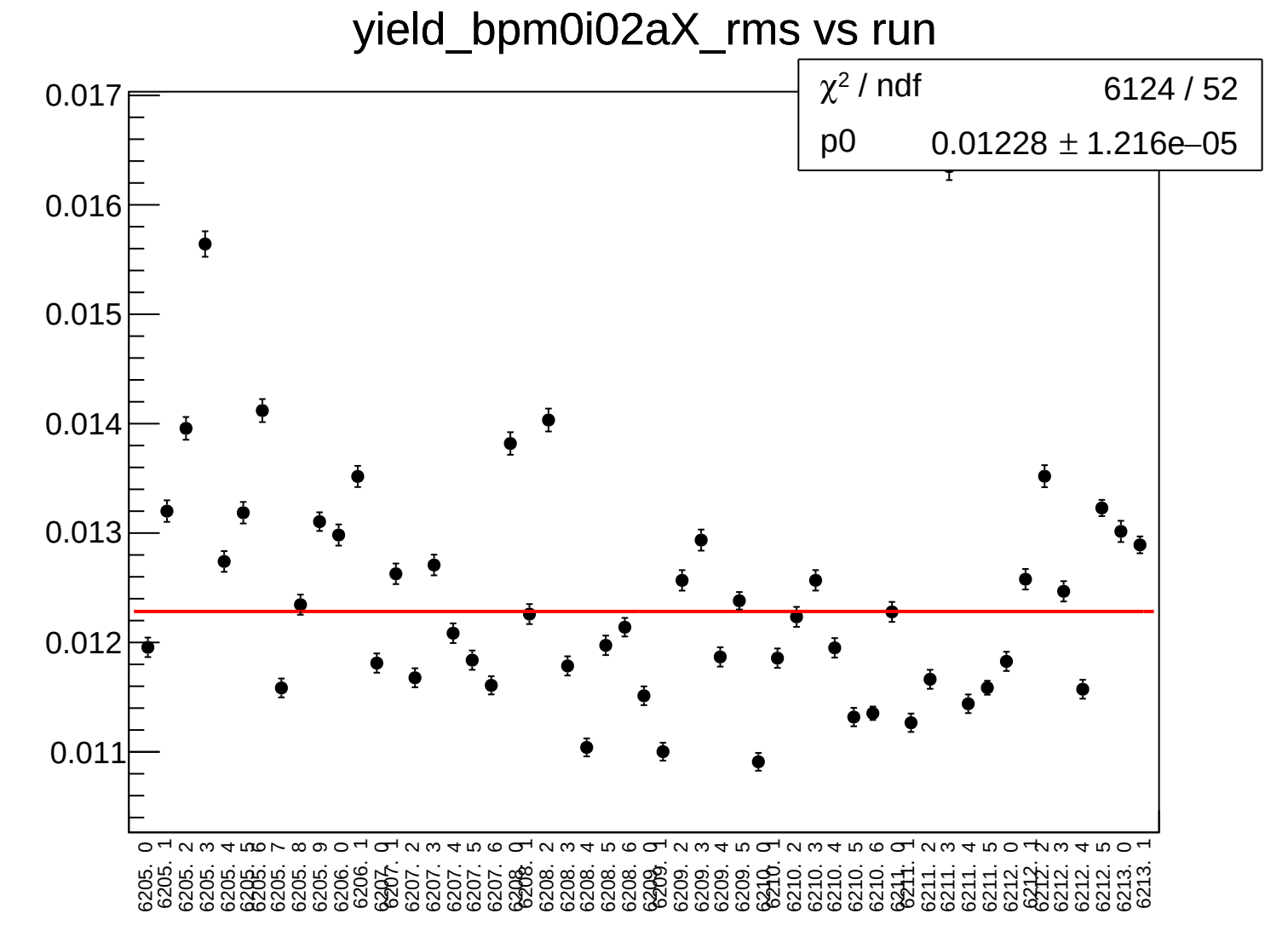

yield_bpm0i02Y_mean vs run
χ² / ndf 2.57e+05 / 52
p0 −3.61 ± 1.109e−05
−3.595
−3.6
−3.605
−3.61
−3.615
−3.62
−3.625
−3.63
−3.635
−3.64
pull
Entries 53
Mean −54.27
Std Dev 70.29
150
100
50
0
−50
−100
−150

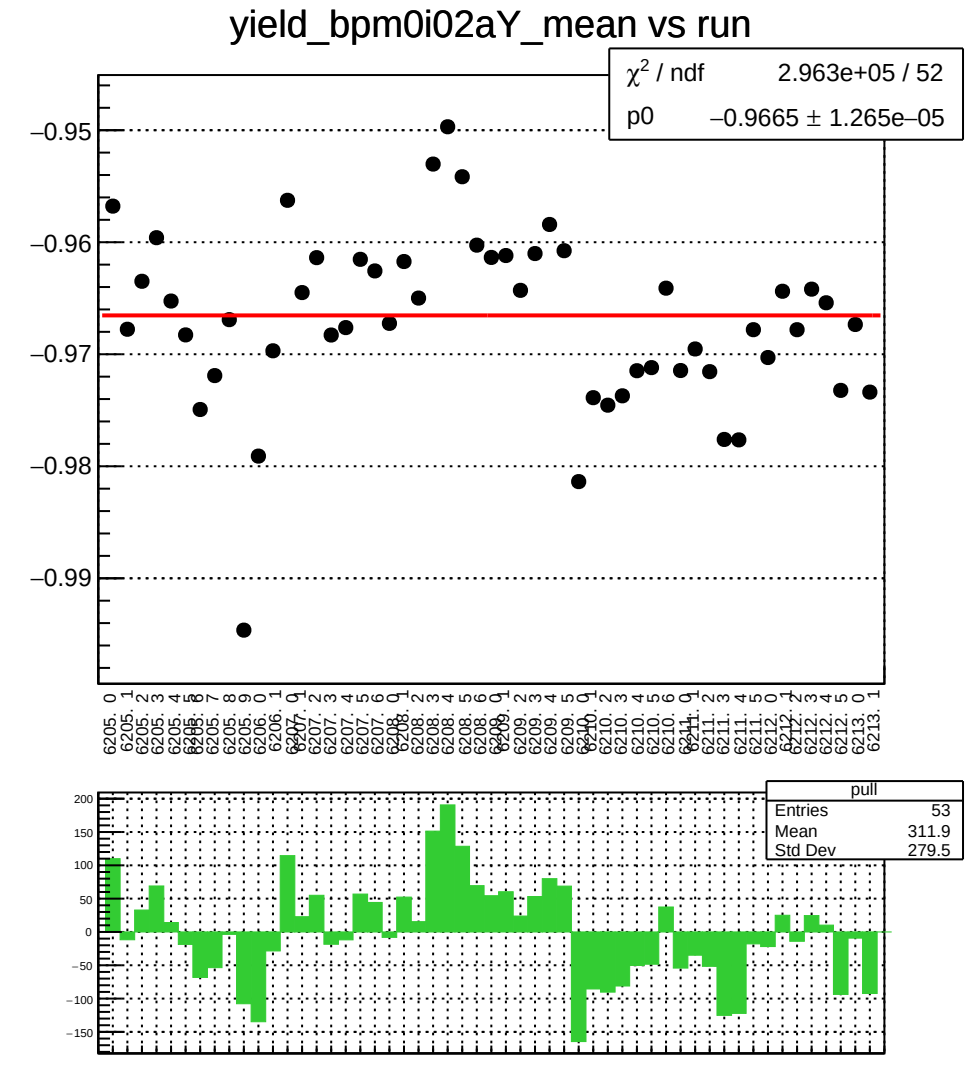

pull1D
Entries 53
Mean 2.474
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

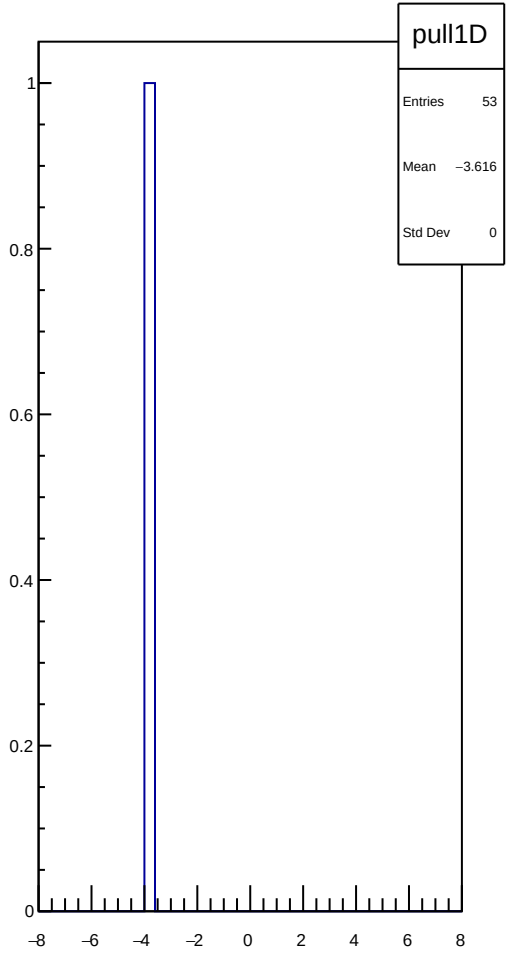

yield_bpm0i02Y_rms vs run
χ² / ndf 1.725e+04 / 52
p0 0.007875 ± 7.84e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

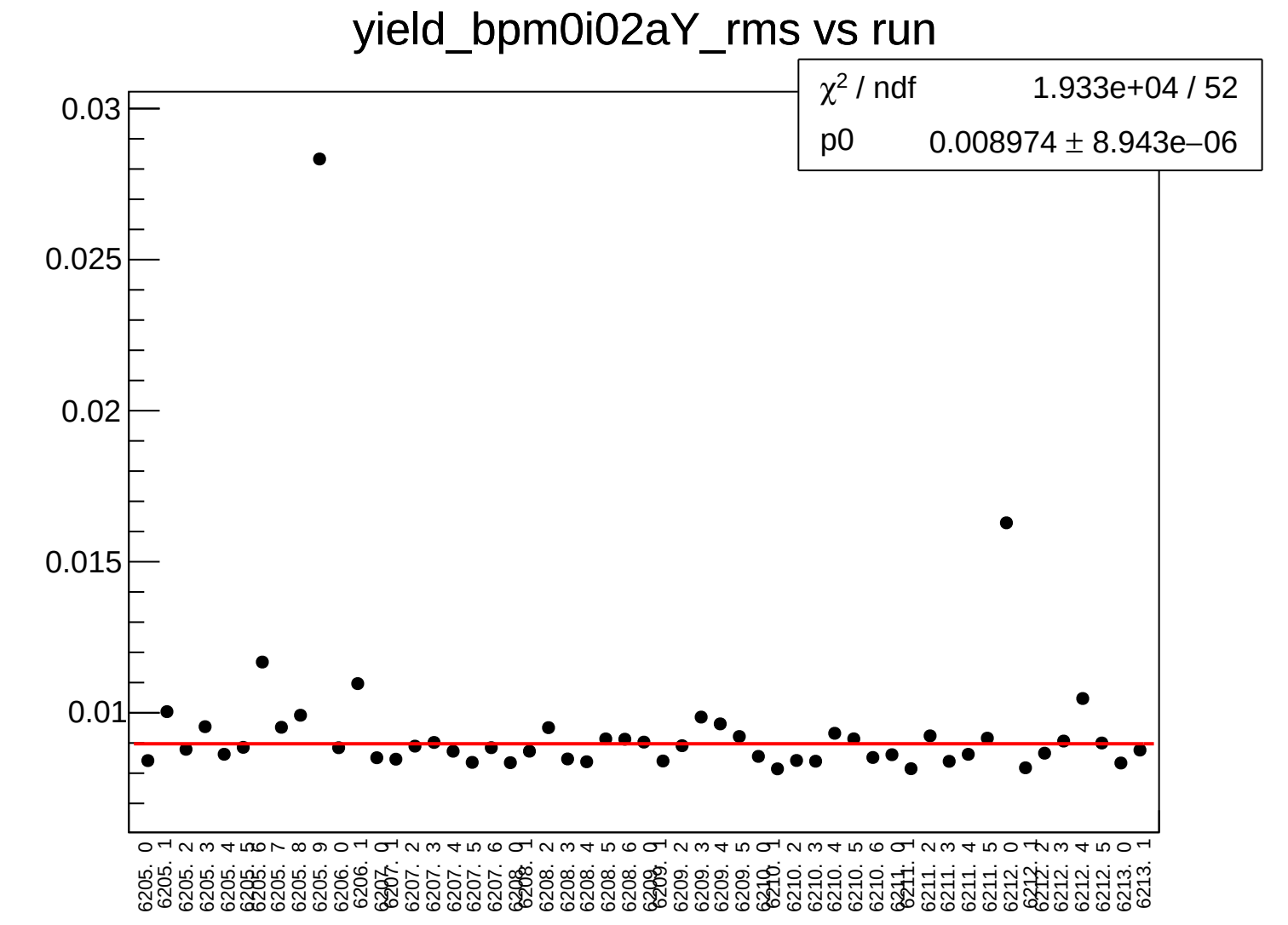

yield_bpm0i02aX_mean vs run
χ² / ndf 2.676e+05 / 52
p0 1.169 ± 1.72e−05
1.19
1.185
1.18
1.175
1.17
1.165
1.16
1.155
1.15
1.145
pull
Entries 53
Mean −1.62e+05
Std Dev 1.62e+05
150
100
50
0
−50
−100
−150

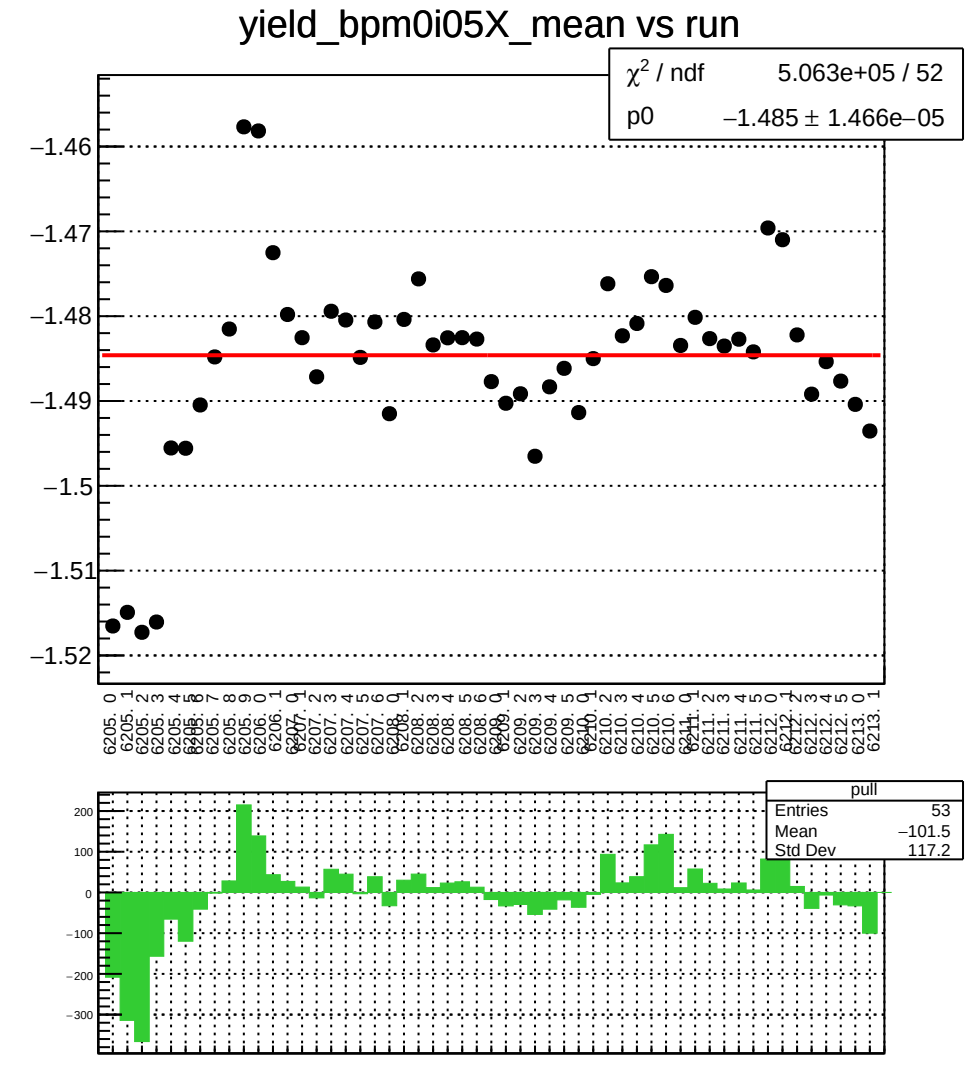

pull1D
Entries 53
Mean −1.379
Std Dev 4.654
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

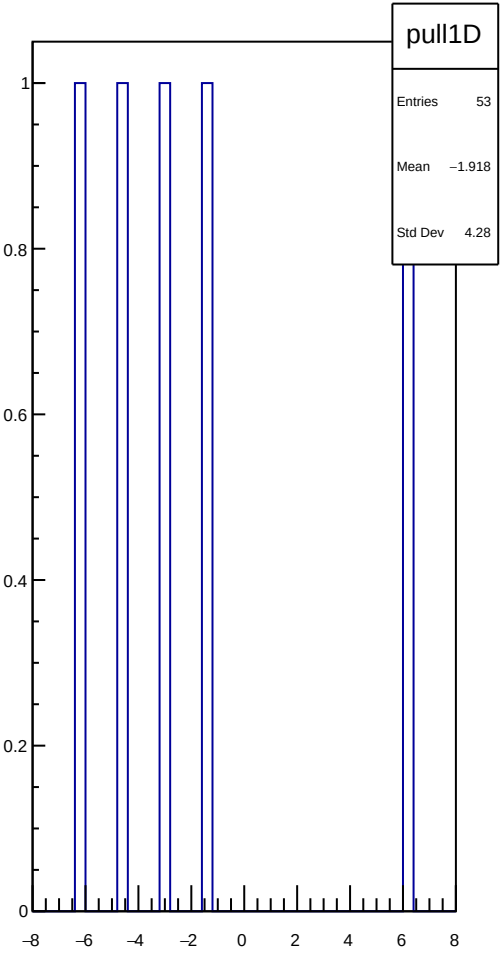

yield_bpm0i02aX_rms vs run
χ² / ndf 6124 / 52
p0 0.01228 ± 1.216e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

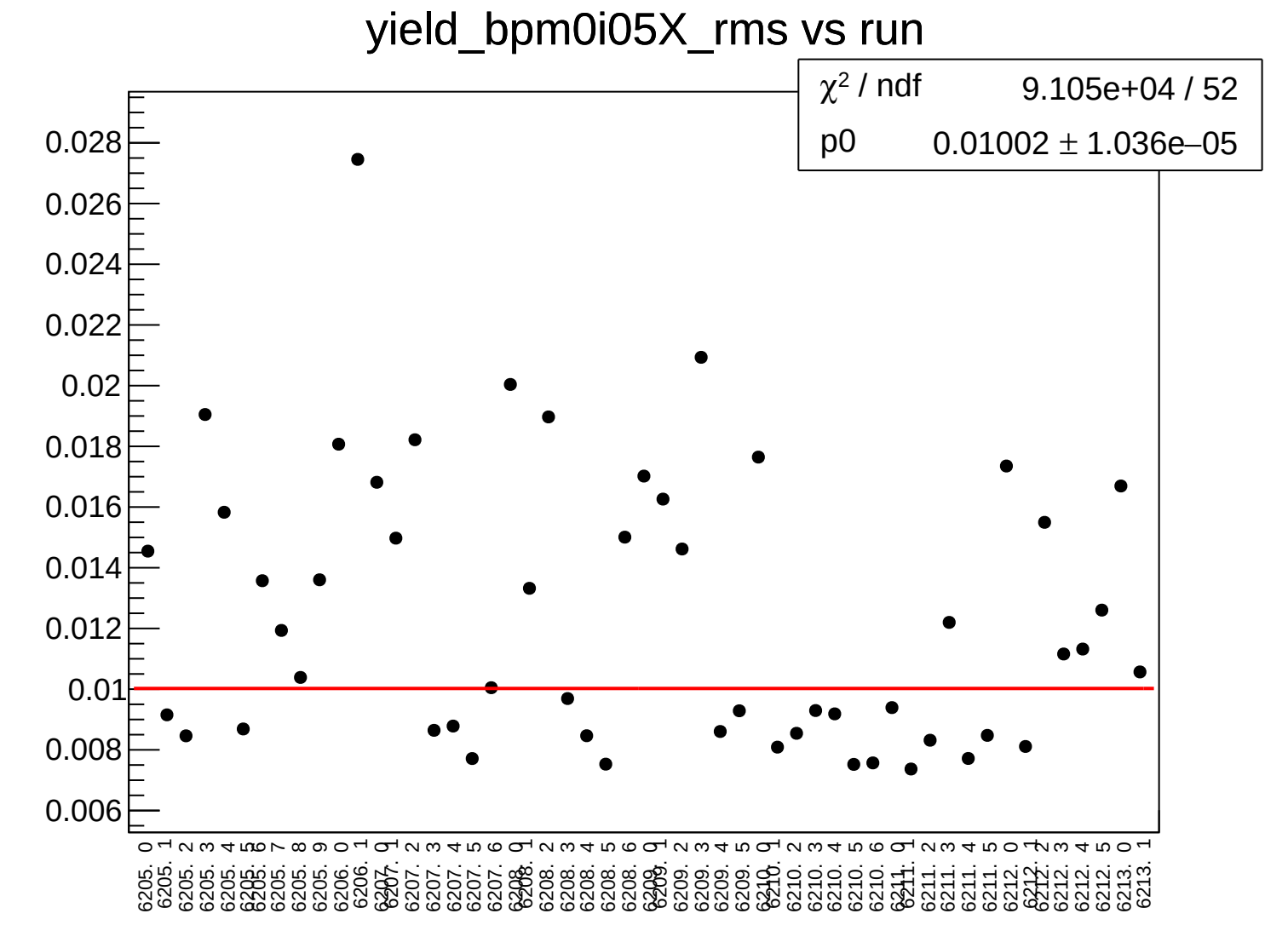

yield_bpm0i02aY_mean vs run
χ² / ndf 2.963e+05 / 52
p0 −0.9665 ± 1.265e−05
−0.95
−0.96
−0.97
−0.98
−0.99
pull
Entries 53
Mean 311.9
Std Dev 279.5
200
150
100
50
0
−50
−100
−150

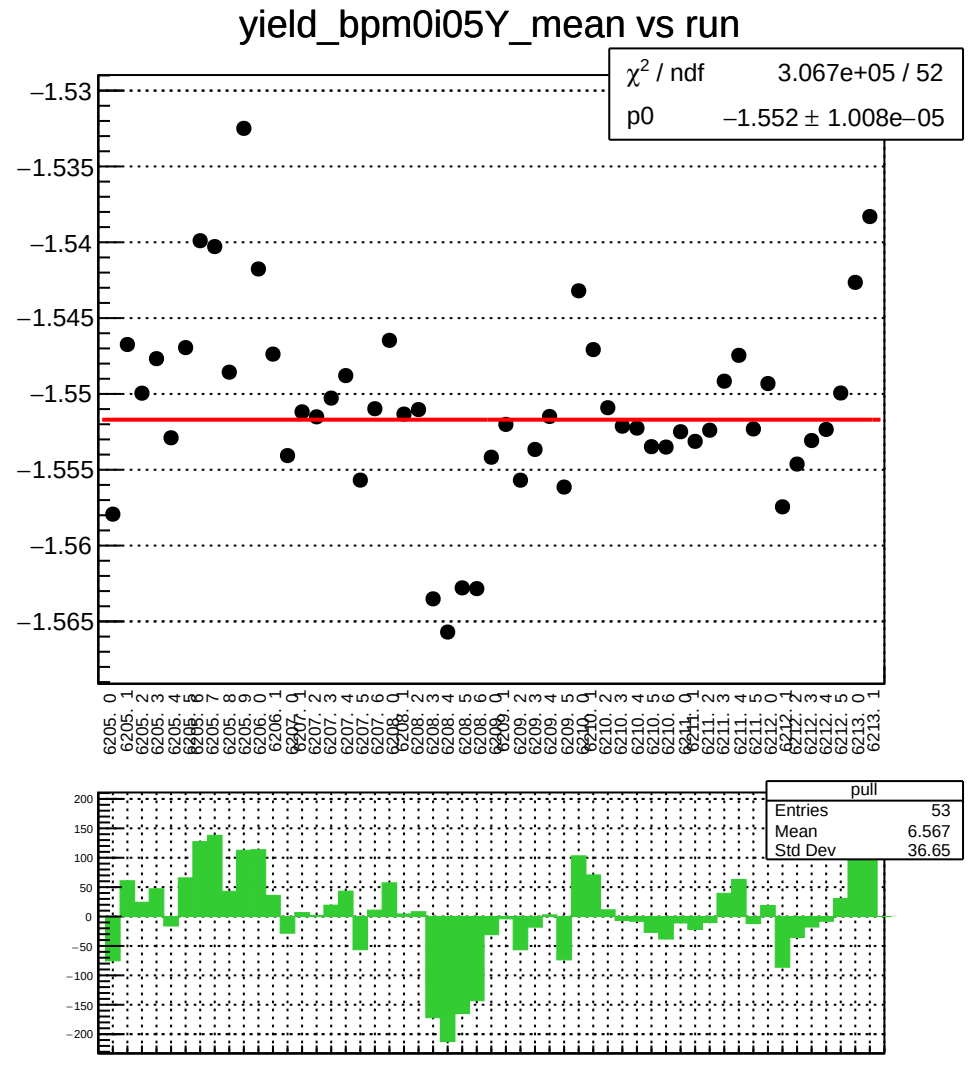

pull1D
Entries 53
Mean −3.616
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

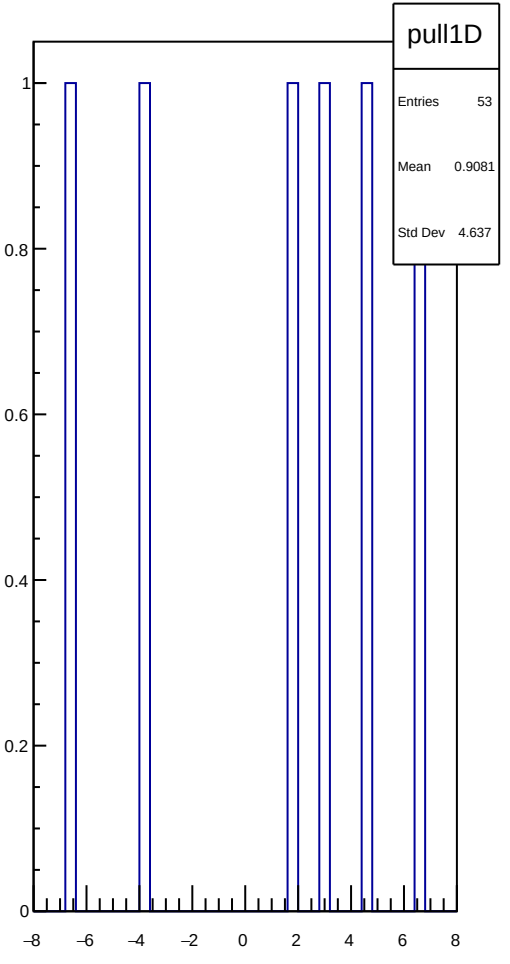

yield_bpm0i02aY_rms vs run
χ² / ndf 1.933e+04 / 52
p0 0.008974 ± 8.943e−06
0.03
0.025
0.02
0.015
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

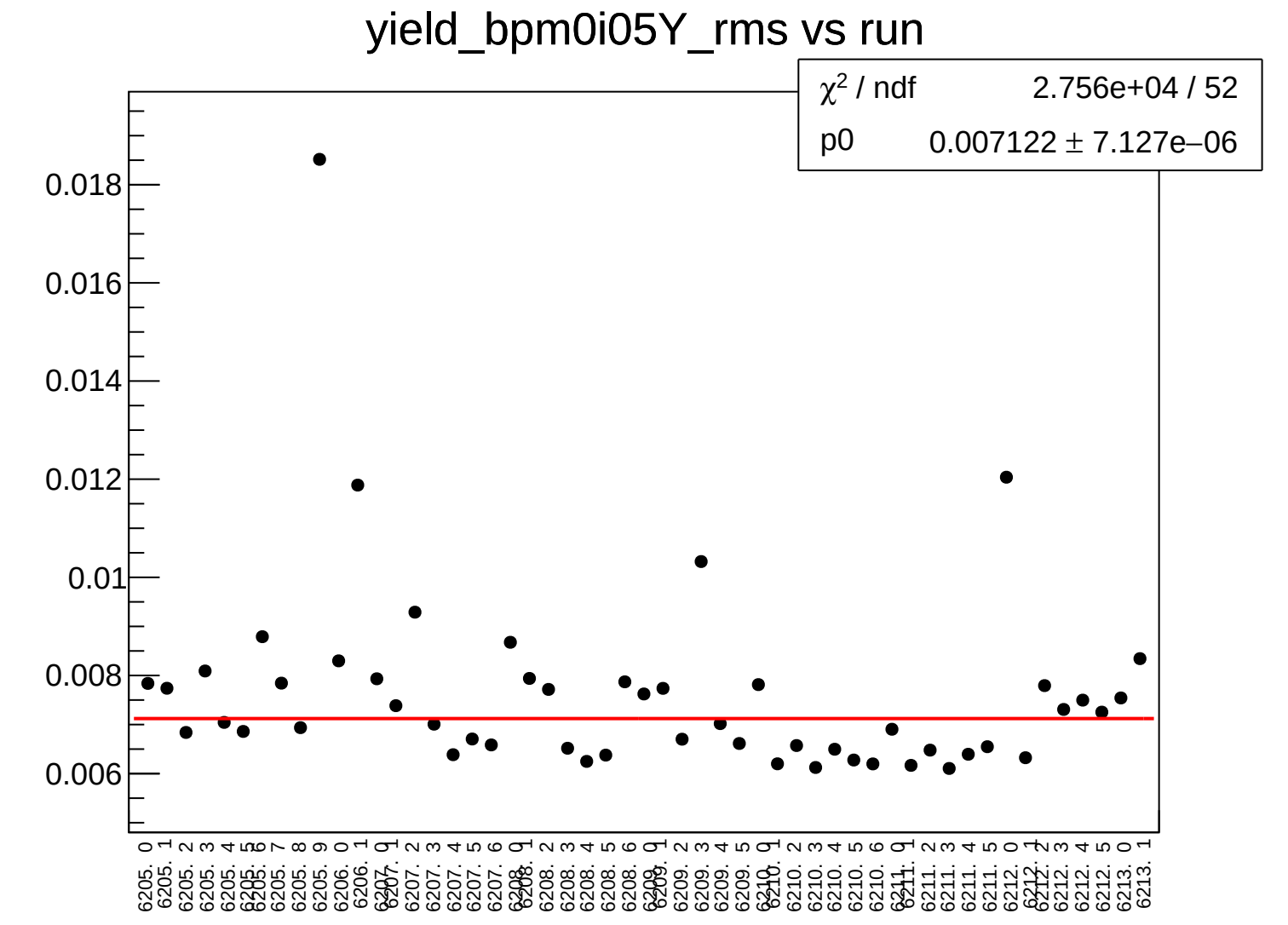

yield_bpm0i05X_mean vs run
χ² / ndf 5.063e+05 / 52
p0 −1.485 ± 1.466e−05
−1.46
−1.47
−1.48
−1.49
−1.5
−1.51
−1.52
pull
Entries 53
Mean −101.5
Std Dev 117.2
200
100
0
−100
−200
−300

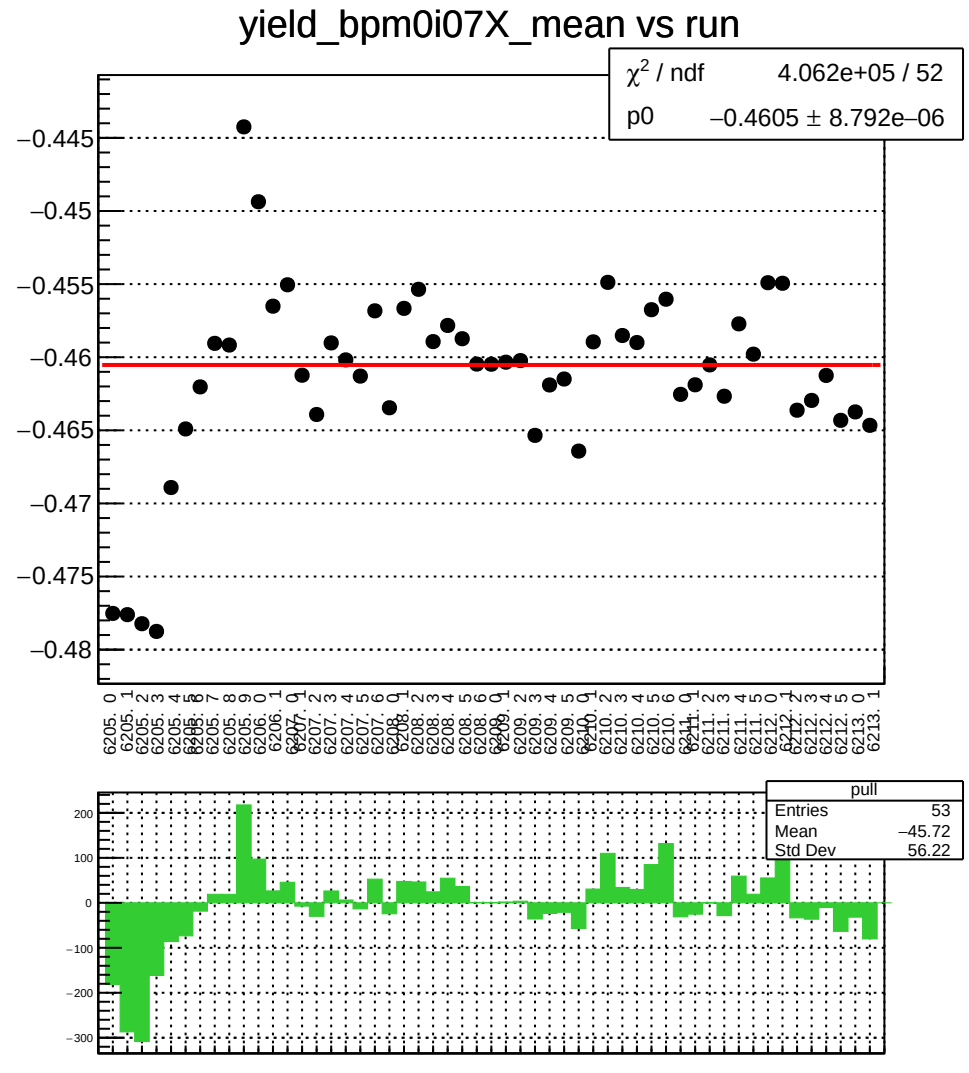

pull1D
Entries 53
Mean −1.918
Std Dev 4.28
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

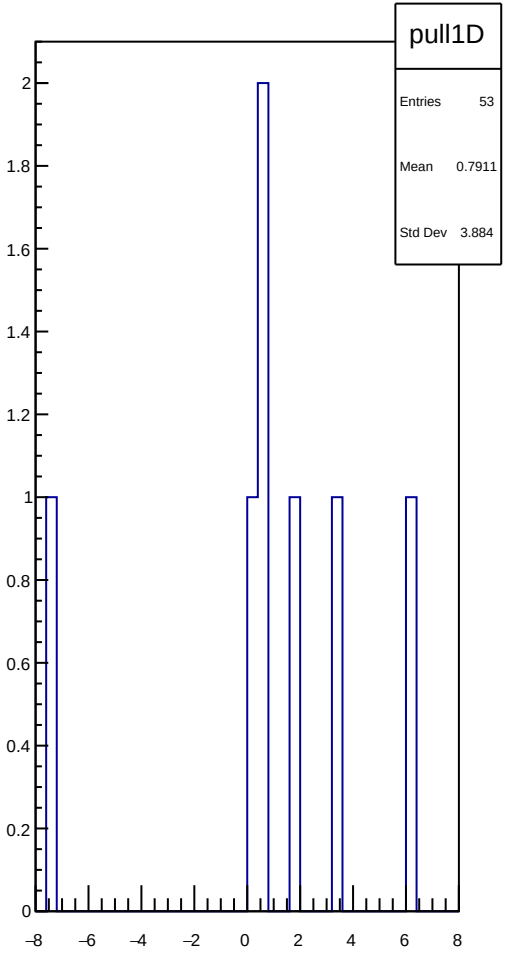

yield_bpm0i05X_rms vs run
χ² / ndf 9.105e+04 / 52
p0 0.01002 ± 1.036e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

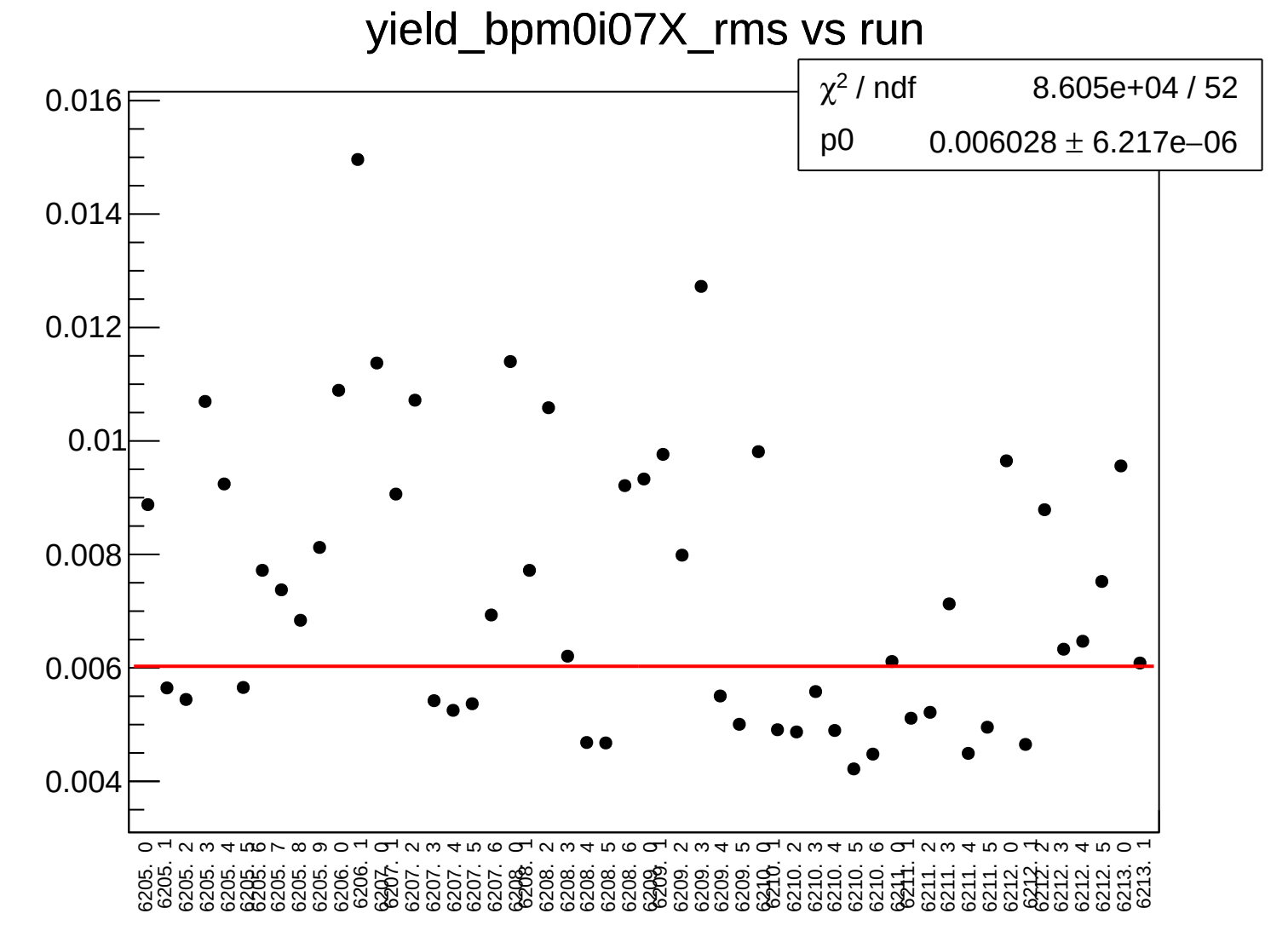

yield_bpm0i05Y_mean vs run
χ² / ndf 3.067e+05 / 52
p0 −1.552 ± 1.008e−05
−1.53
−1.535
−1.54
−1.545
−1.55
−1.555
−1.56
−1.565
pull
Entries 53
Mean 6.567
Std Dev 36.65
200
150
100
50
0
−50
−100
−150
−200

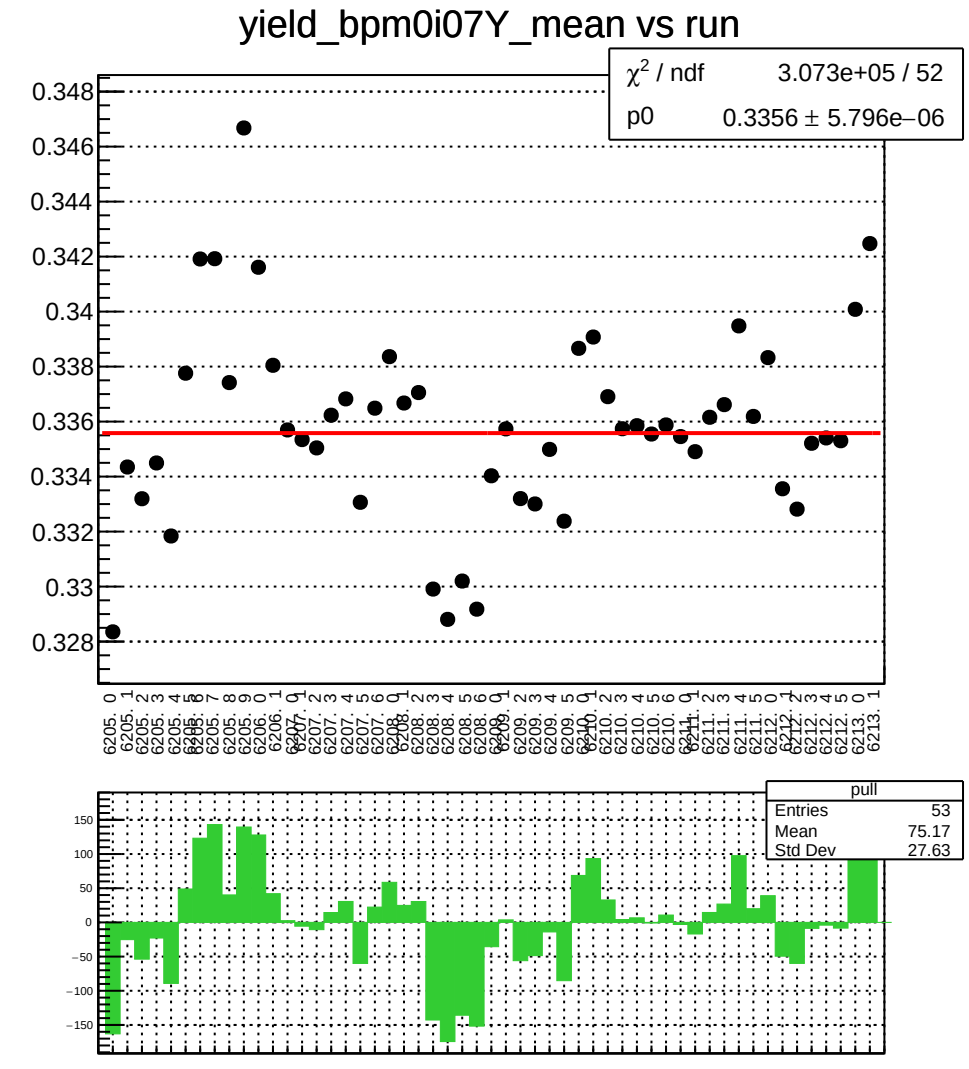

pull1D
Entries 53
Mean 0.9081
Std Dev 4.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

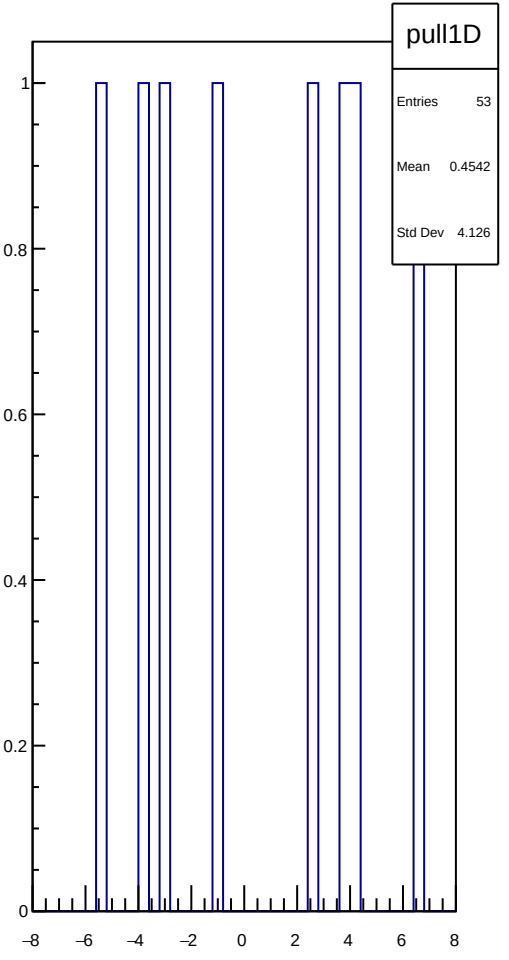

yield_bpm0i05Y_rms vs run
χ² / ndf 2.756e+04 / 52
p0 0.007122 ± 7.127e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

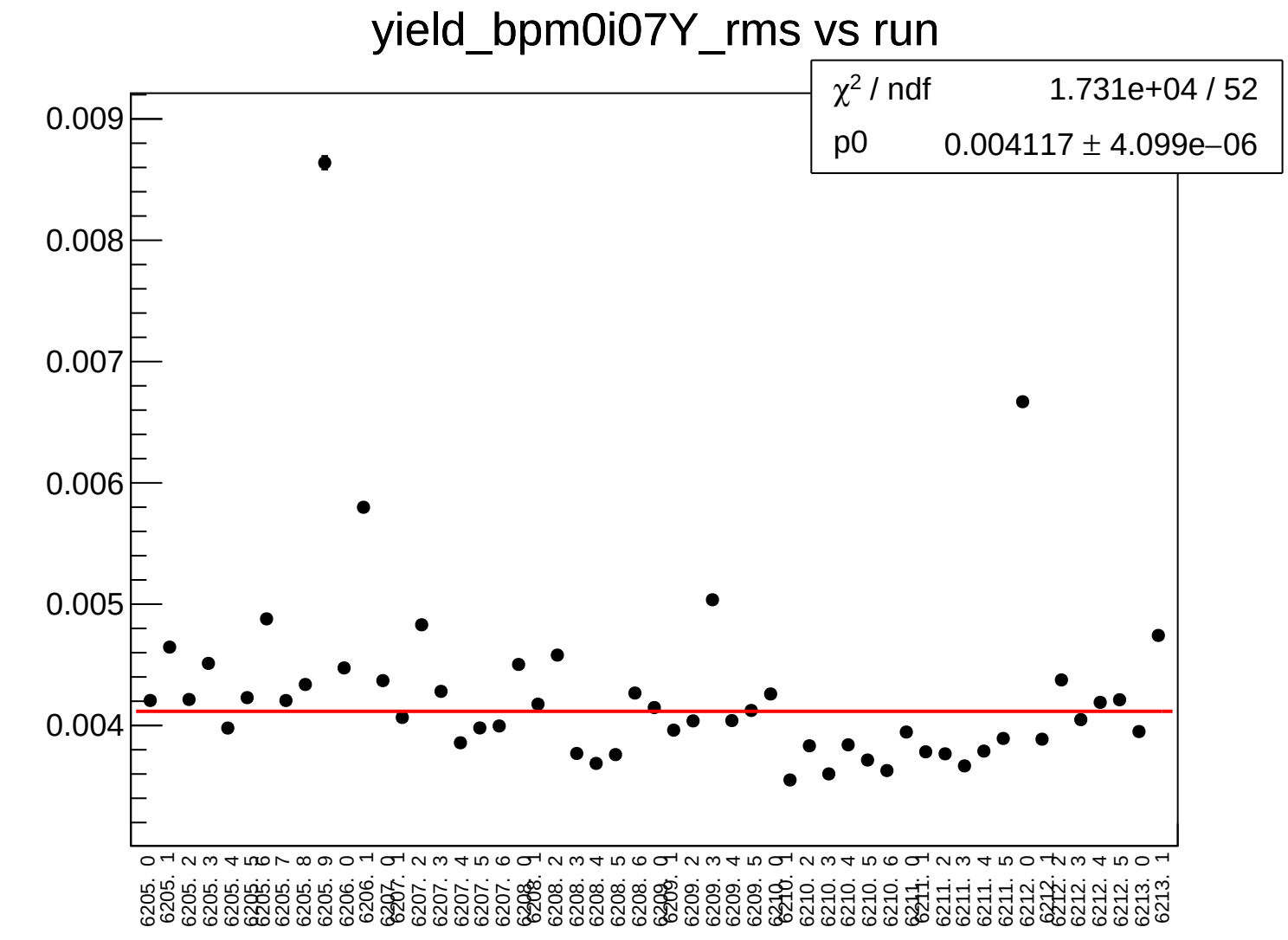

yield_bpm0i07X_mean vs run
χ² / ndf 4.062e+05 / 52
p0 −0.4605 ± 8.792e−06
−0.445
−0.45
−0.455
−0.46
−0.465
−0.47
−0.475
−0.48
pull
Entries 53
Mean −45.72
Std Dev 56.22
200
100
0
−100
−200
−300

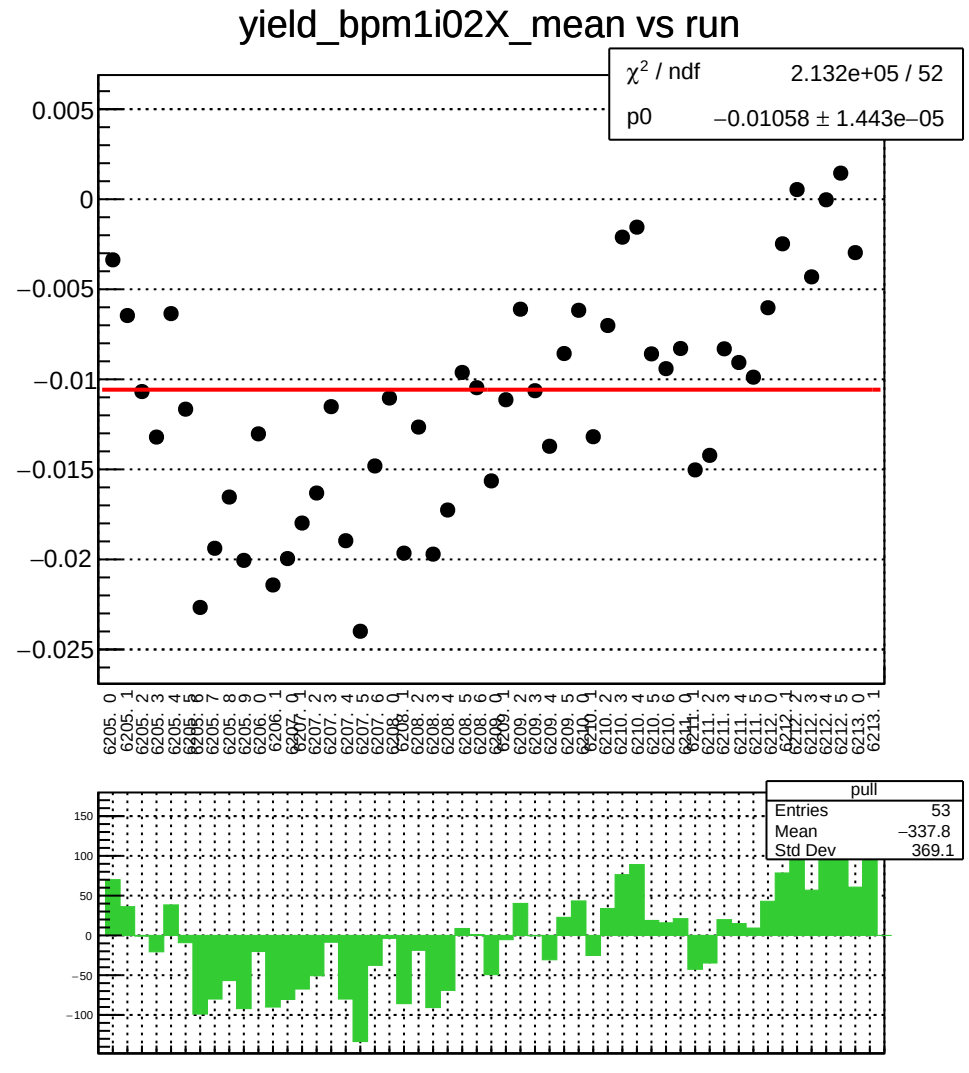

pull1D
Entries 53
Mean 0.7911
Std Dev 3.884
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

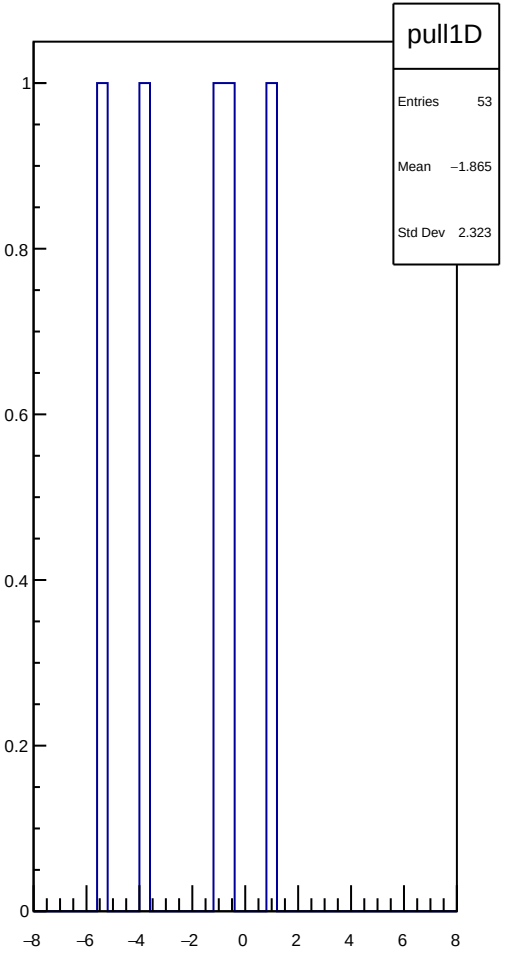

yield_bpm0i07X_rms vs run
χ² / ndf 8.605e+04 / 52
p0 0.006028 ± 6.217e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6207. 8
6207. 9
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6210. 8
6210. 9
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

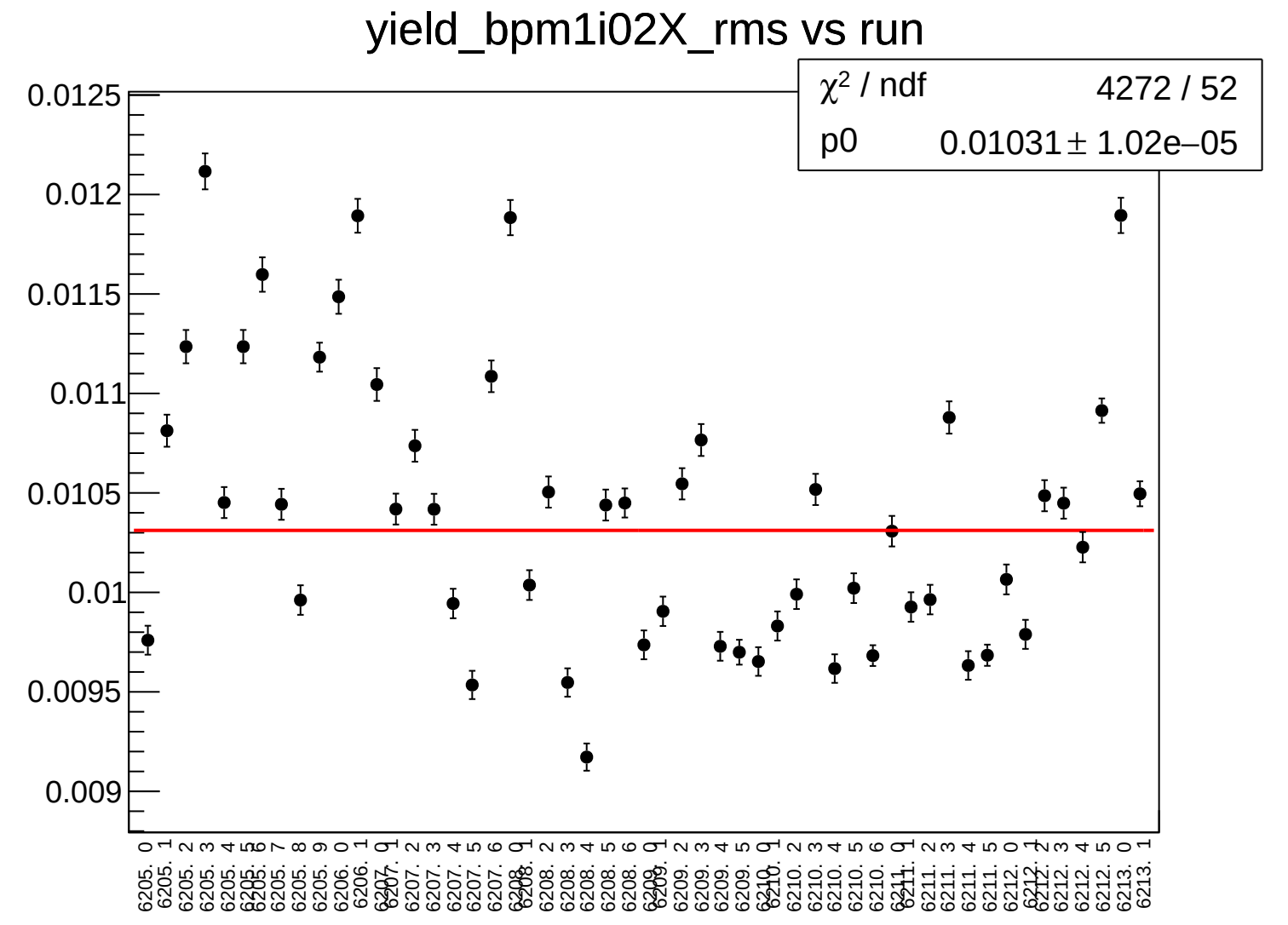

yield_bpm0i07Y_mean vs run
χ² / ndf 3.073e+05 / 52
p0 0.3356 ± 5.796e−06
0.348
0.346
0.344
0.342
0.34
0.338
0.336
0.334
0.332
0.33
0.328
pull
Entries 53
Mean 75.17
Std Dev 27.63
150
100
50
0
−50
−100
−150

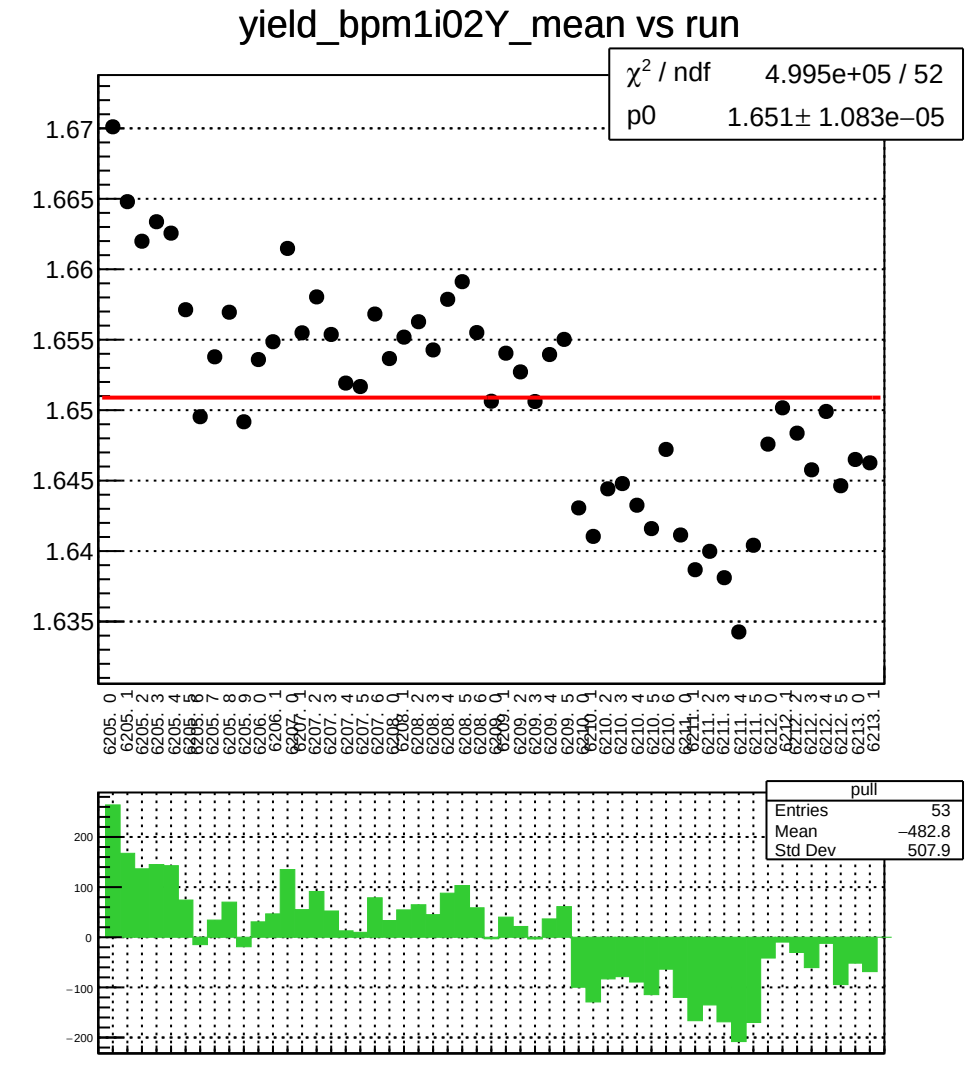

pull1D
Entries 53
Mean 0.4542
Std Dev 4.126
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

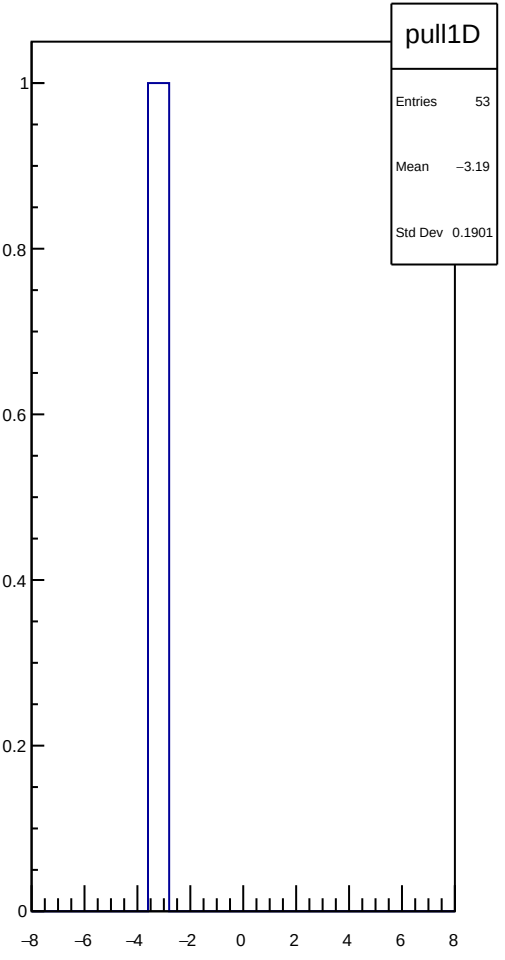

yield_bpm0i07Y_rms vs run
χ² / ndf 1.731e+04 / 52
p0 0.004117 ± 4.099e−06
0.009
0.008
0.007
0.006
0.005
0.004
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

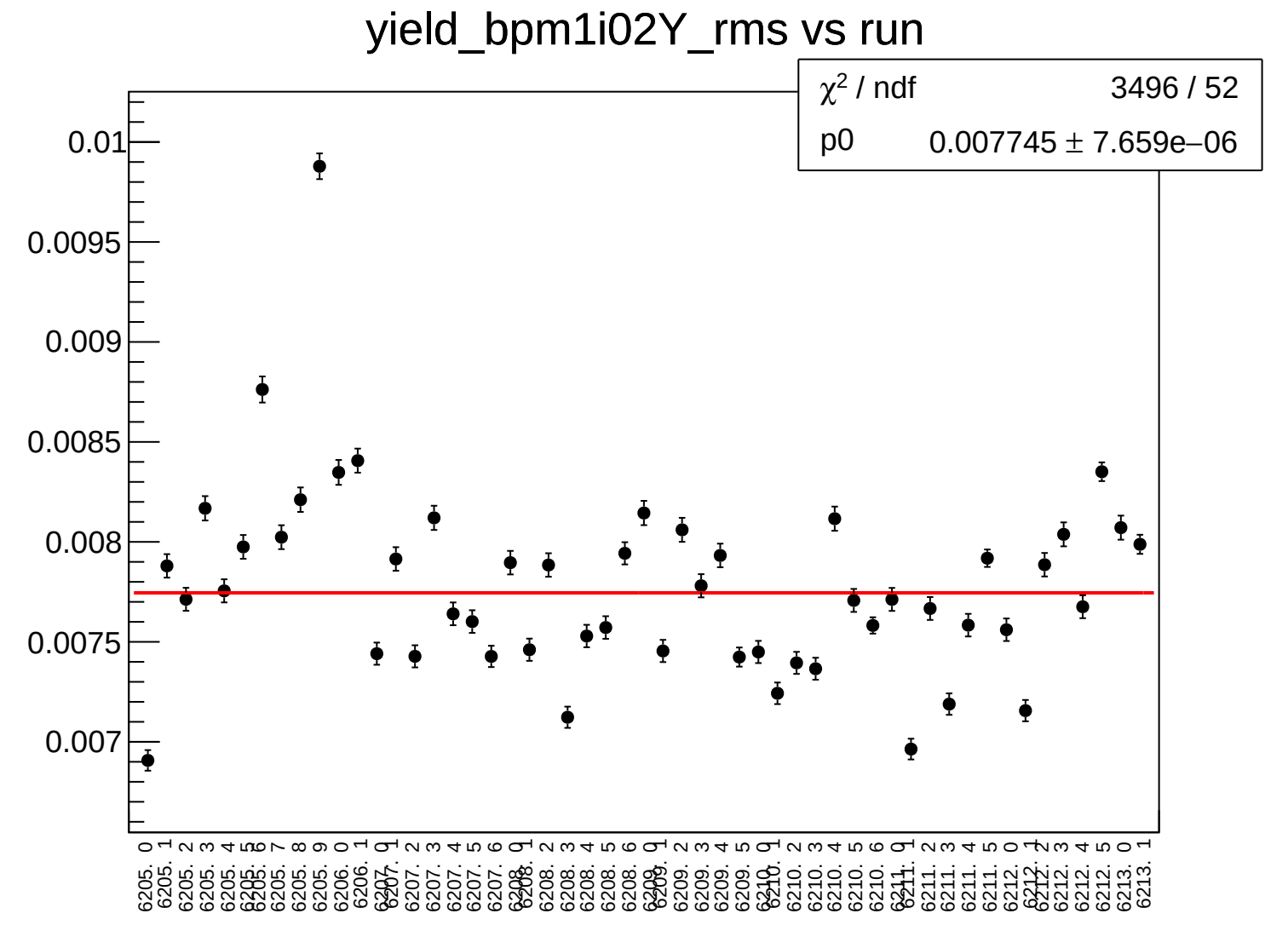

yield_bpm1i02X_mean vs run
χ² / ndf 2.132e+05 / 52
p0 −0.01058 ± 1.443e−05
pull
Entries 53
Mean −337.8
Std Dev 369.1

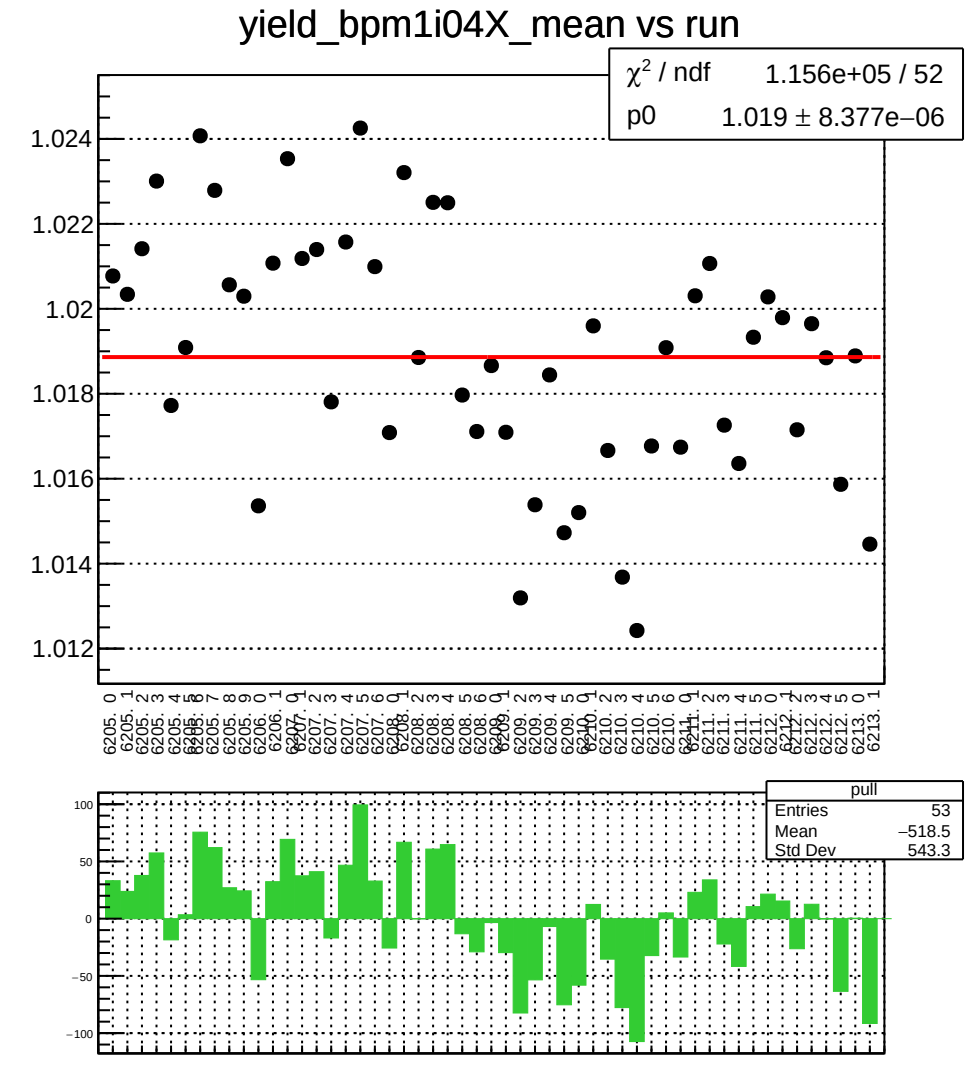

pull1D
Entries 53
Mean −1.865
Std Dev 2.323

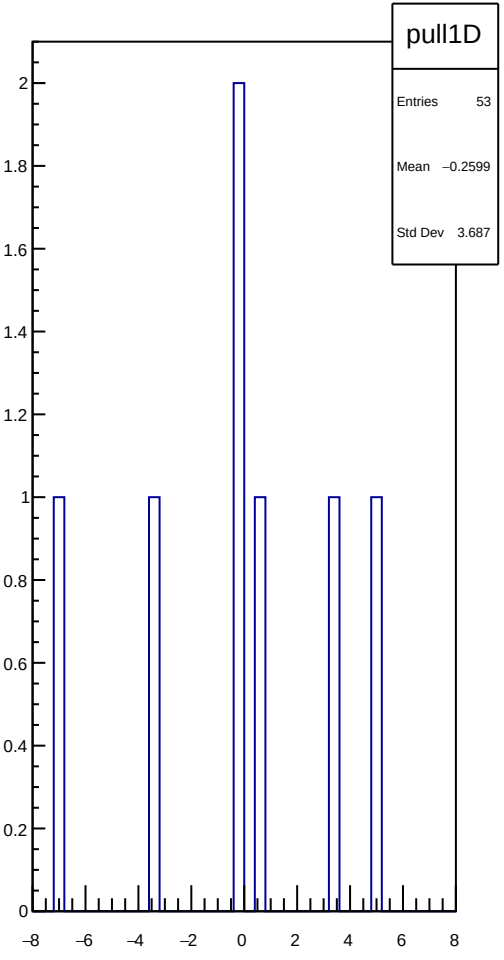

yield_bpm1i02X_rms vs run
χ² / ndf 4272 / 52
p0 0.01031 ± 1.02e–05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

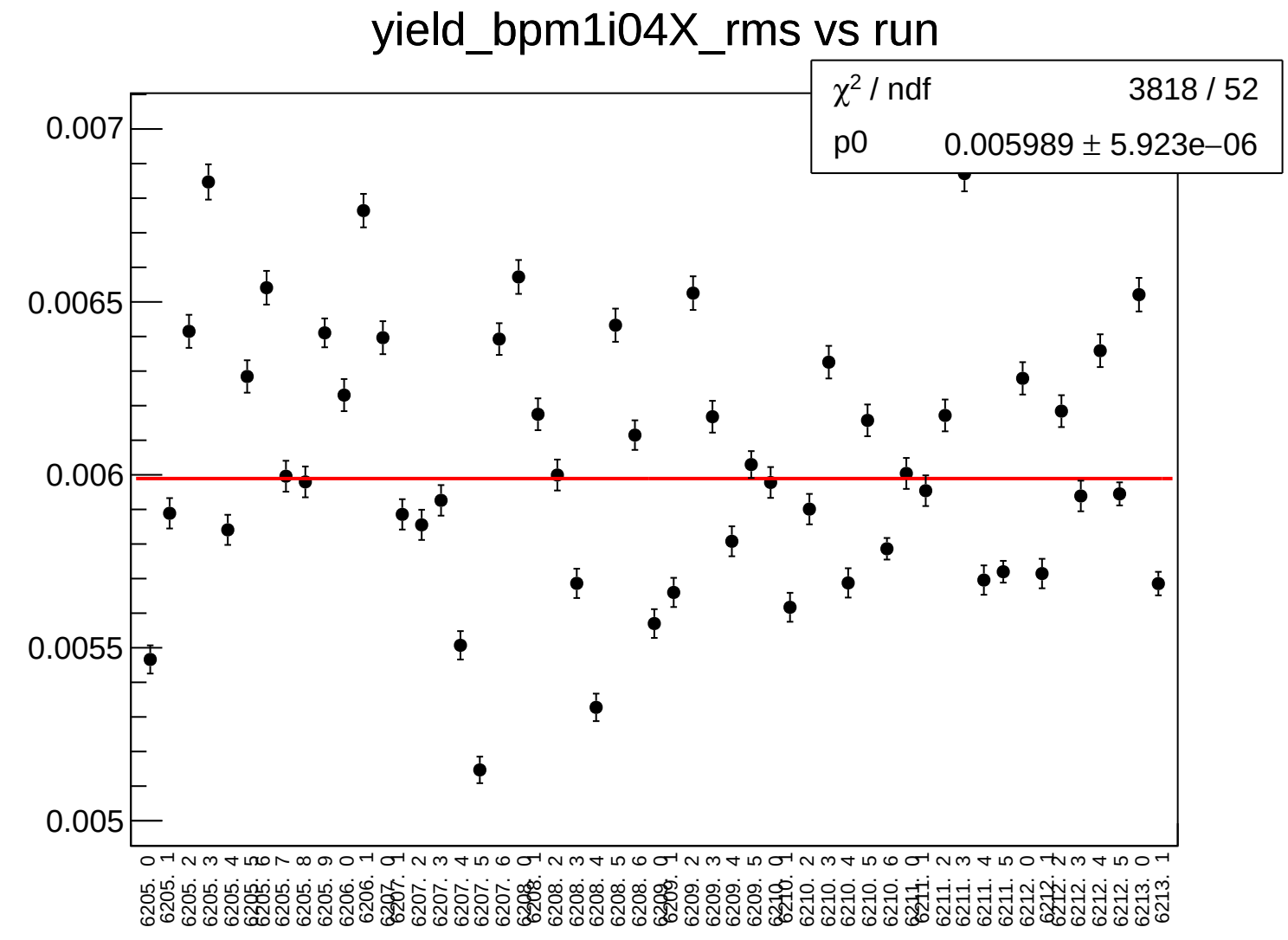

yield_bpm1i02Y_mean vs run
χ² / ndf 4.995e+05 / 52
p0 1.651± 1.083e−05
1.67
1.665
1.66
1.655
1.65
1.645
1.64
1.635
pull
Entries 53
Mean −482.8
Std Dev 507.9
200
100
0
−100
−200

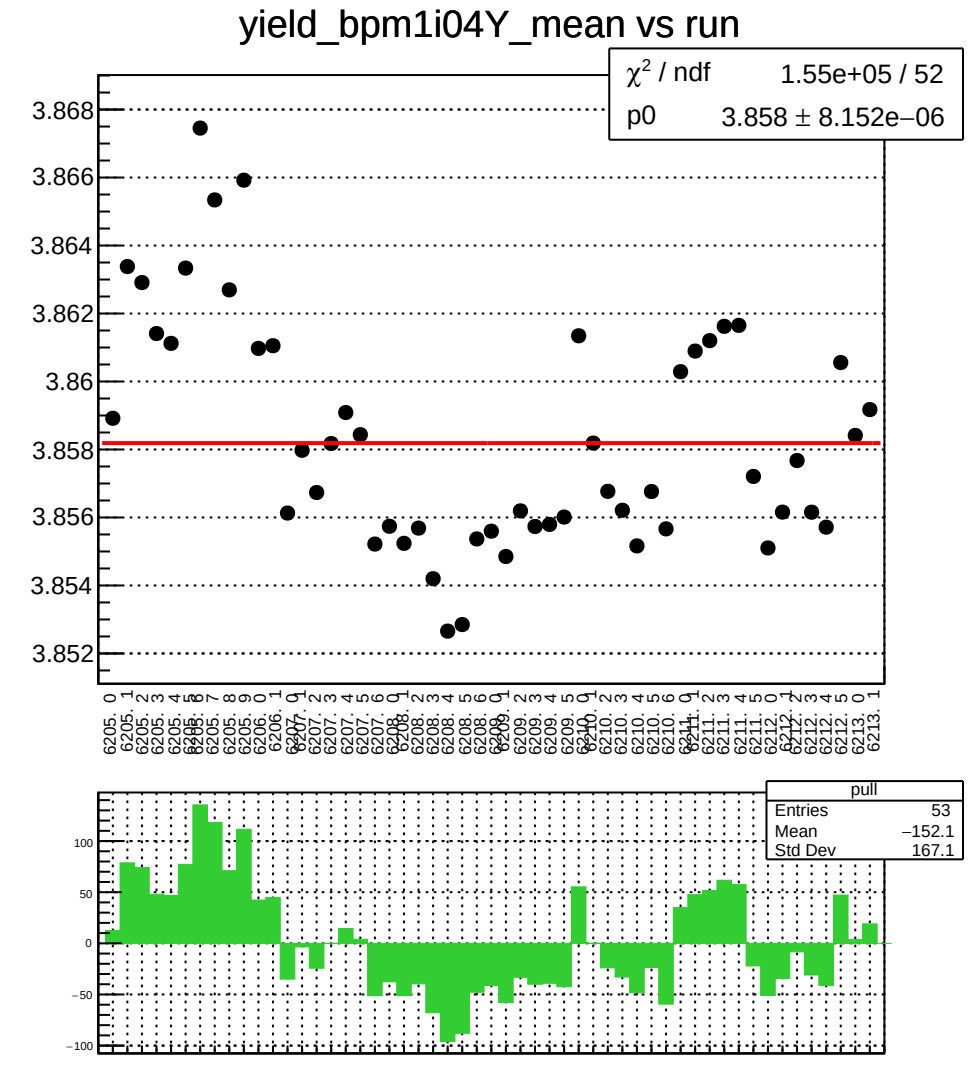

pull1D
Entries 53
Mean −3.19
Std Dev 0.1901
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

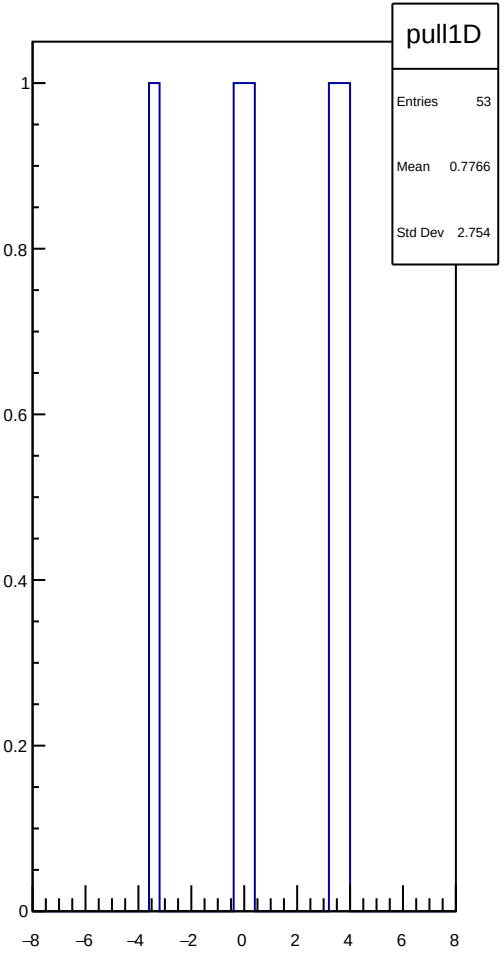

yield_bpm1i02Y_rms vs run
χ² / ndf 3496 / 52
p0 0.007745 ± 7.659e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

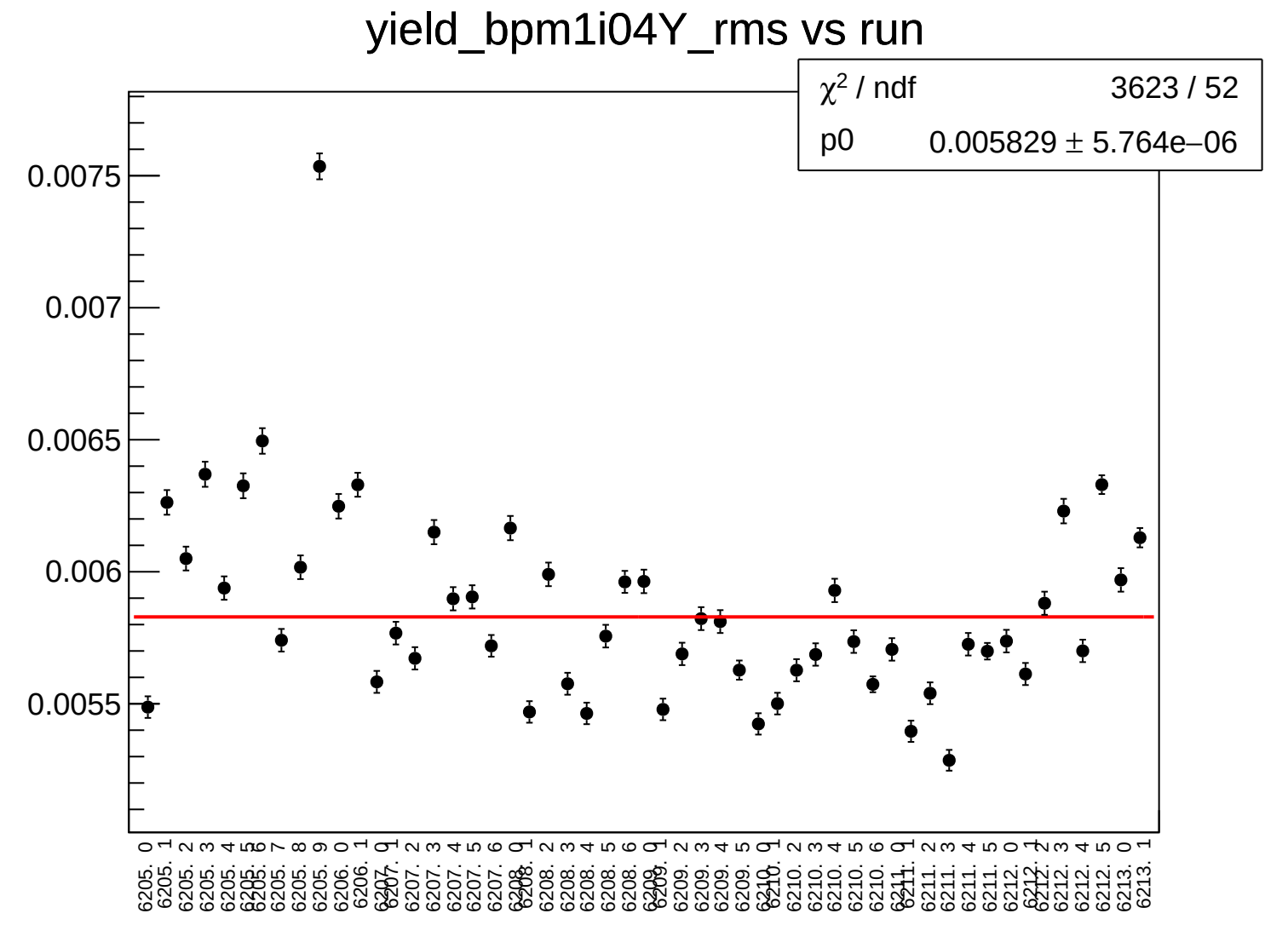

yield_bpm1i04X_mean vs run
χ² / ndf 1.156e+05 / 52
p0 1.019 ± 8.377e−06
1.024
1.022
1.02
1.018
1.016
1.014
1.012
pull
Entries 53
Mean −518.5
Std Dev 543.3
100
50
0
−50
−100

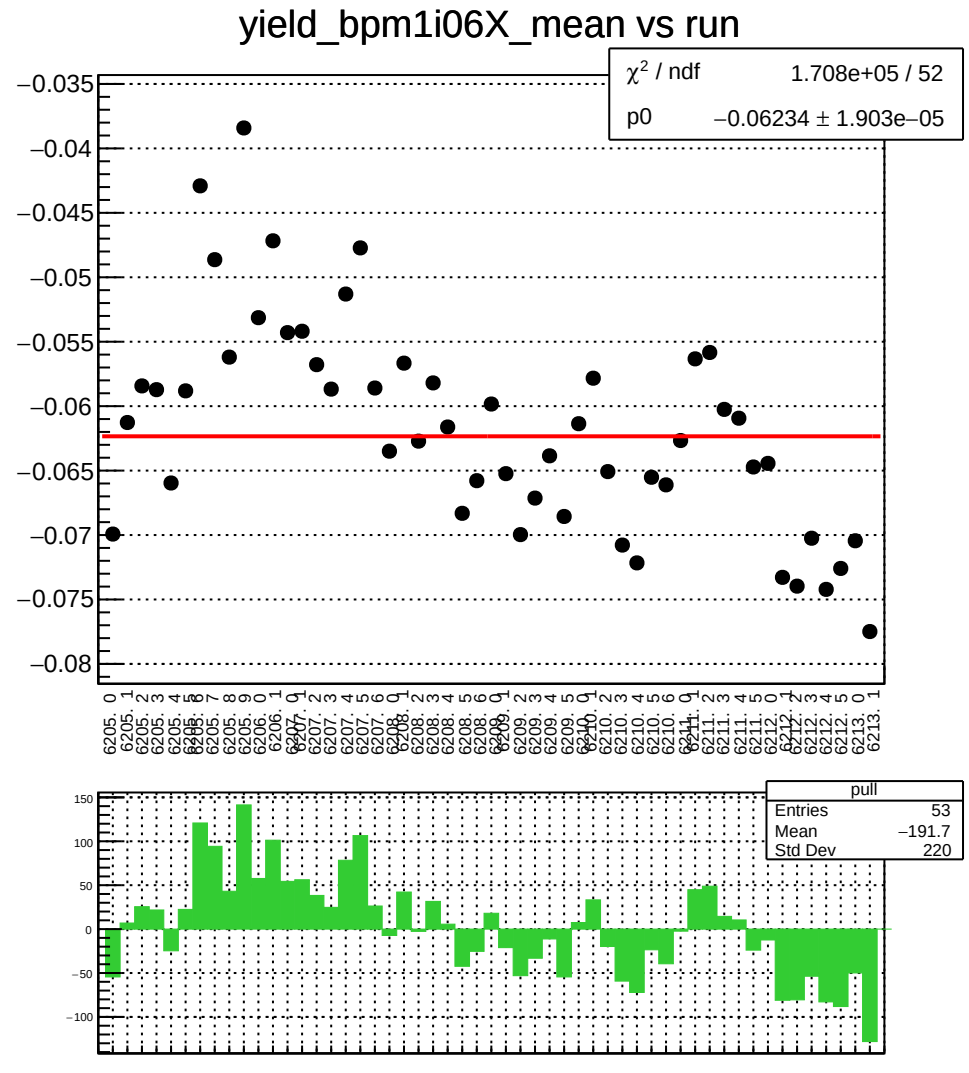

pull1D
Entries 53
Mean −0.2599
Std Dev 3.687
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

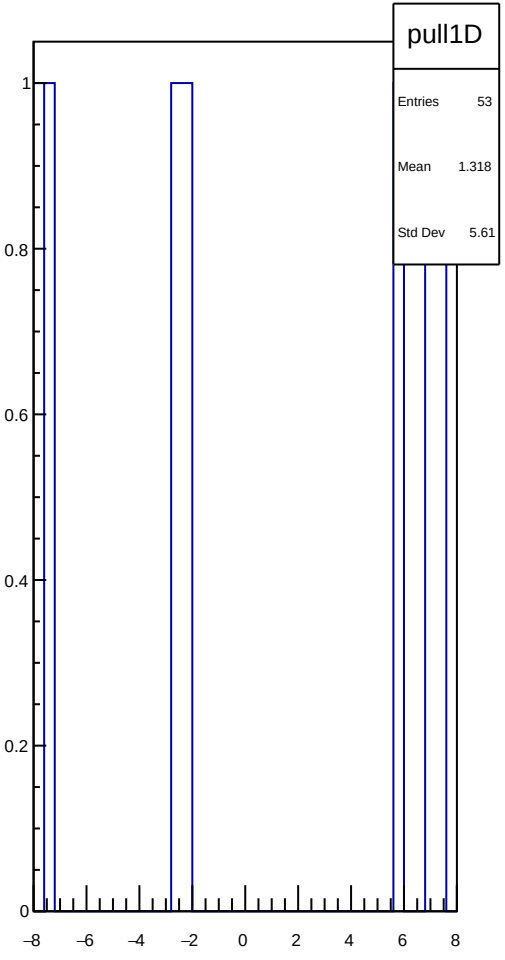

yield_bpm1i04X_rms vs run
χ² / ndf 3818 / 52
p0 0.005989 ± 5.923e−06
0.007
0.0065
0.006
0.0055
0.005
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

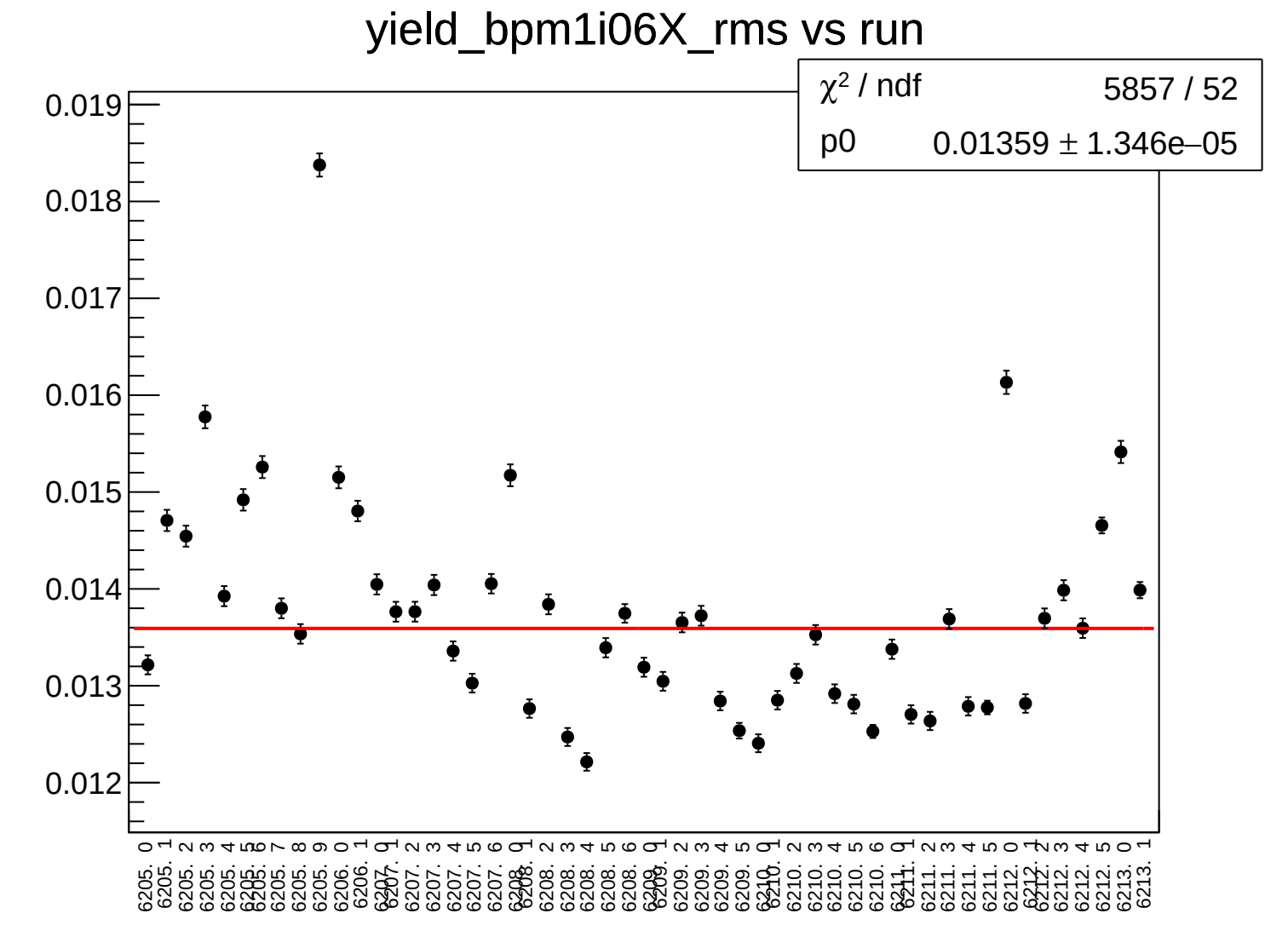

yield_bpm1i04Y_mean vs run
χ² / ndf 1.55e+05 / 52
p0 3.858 ± 8.152e−06
3.868
3.866
3.864
3.862
3.86
3.858
3.856
3.854
3.852
pull
Entries 53
Mean −152.1
Std Dev 167.1
100
50
0
−50
−100

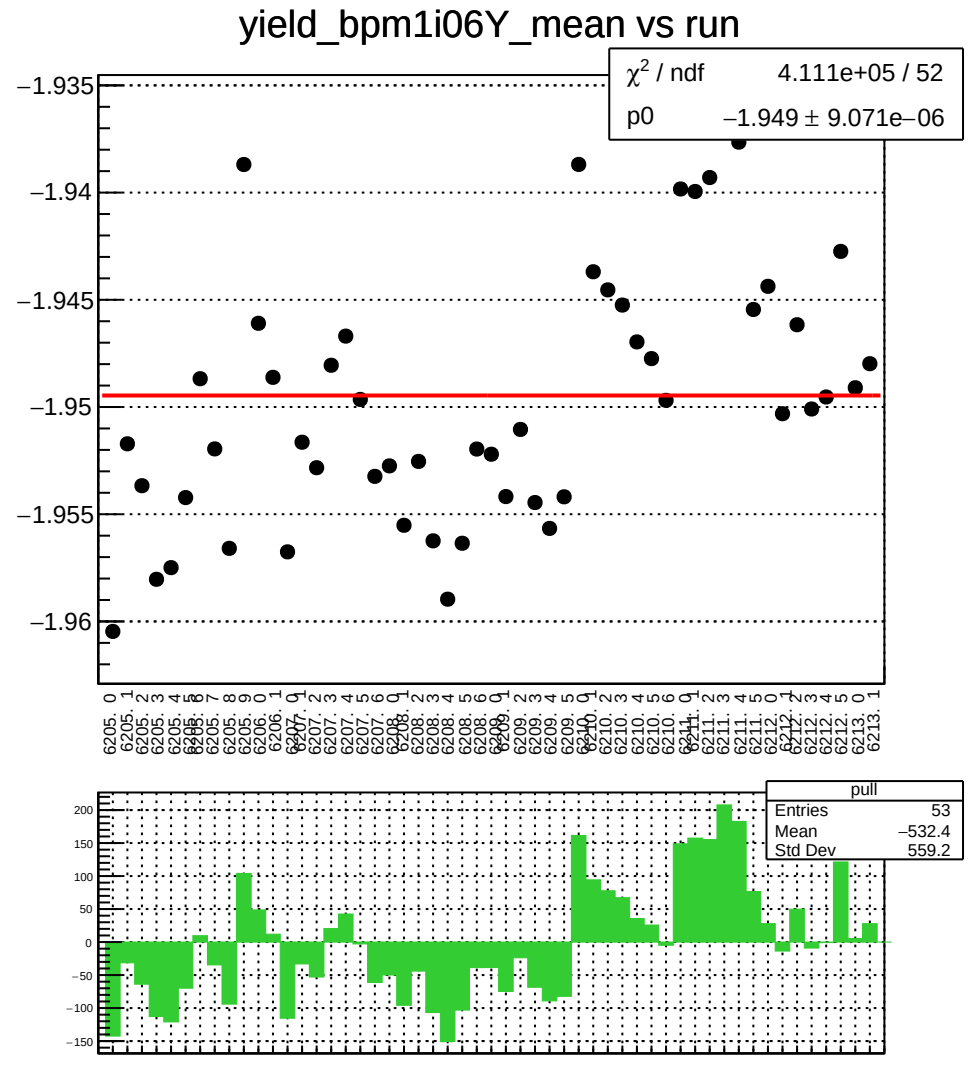

pull1D
Entries 53
Mean 0.7766
Std Dev 2.754
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

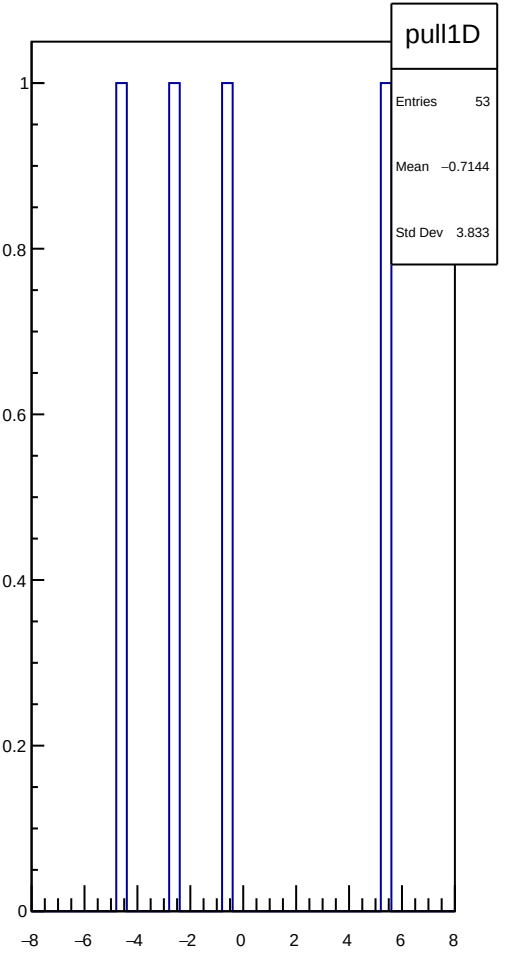

yield_bpm1i04Y_rms vs run
χ² / ndf 3623 / 52
p0 0.005829 ± 5.764e−06
0.0075
0.007
0.0065
0.006
0.0055
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

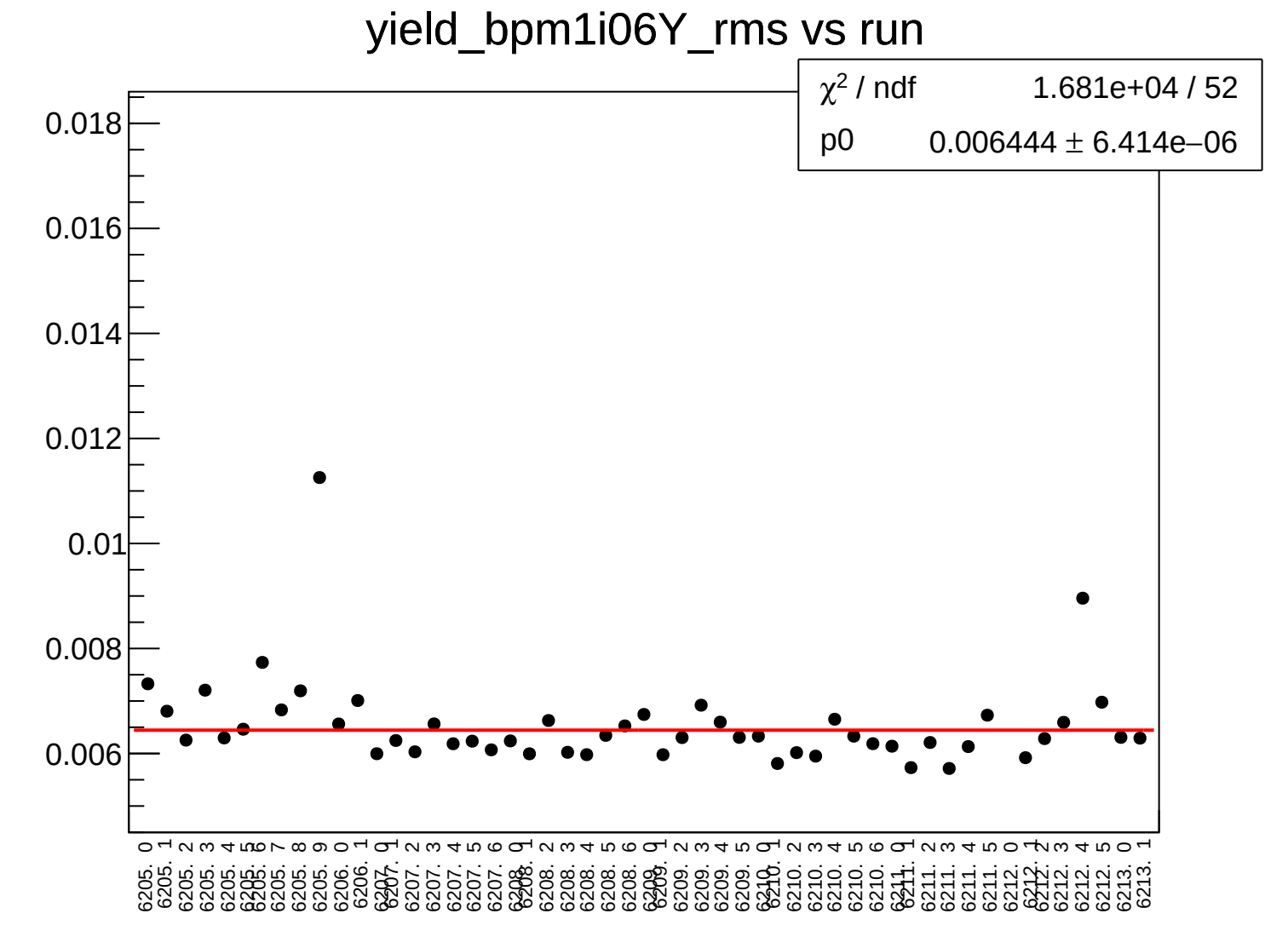

yield_bpm1i06X_mean vs run
χ² / ndf 1.708e+05 / 52
p0 −0.06234 ± 1.903e−05
pull
Entries 53
Mean −191.7
Std Dev 220

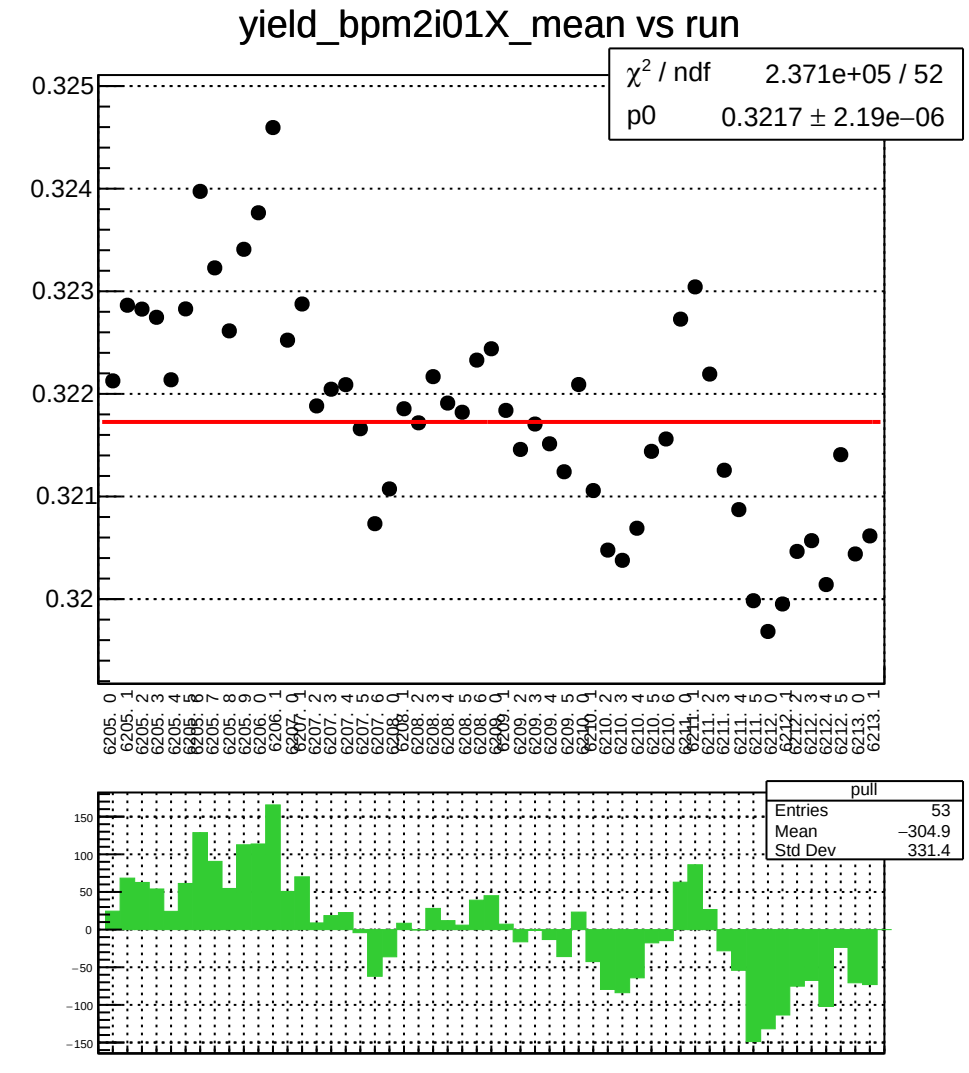

pull1D
Entries 53
Mean 1.318
Std Dev 5.61

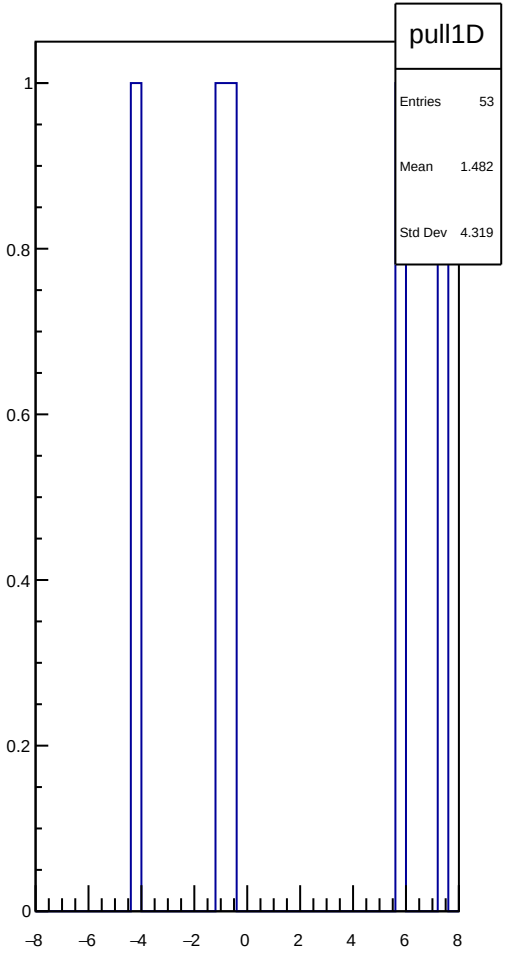

yield_bpm1i06X_rms vs run
χ² / ndf 5857 / 52
p0 0.01359 ± 1.346e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

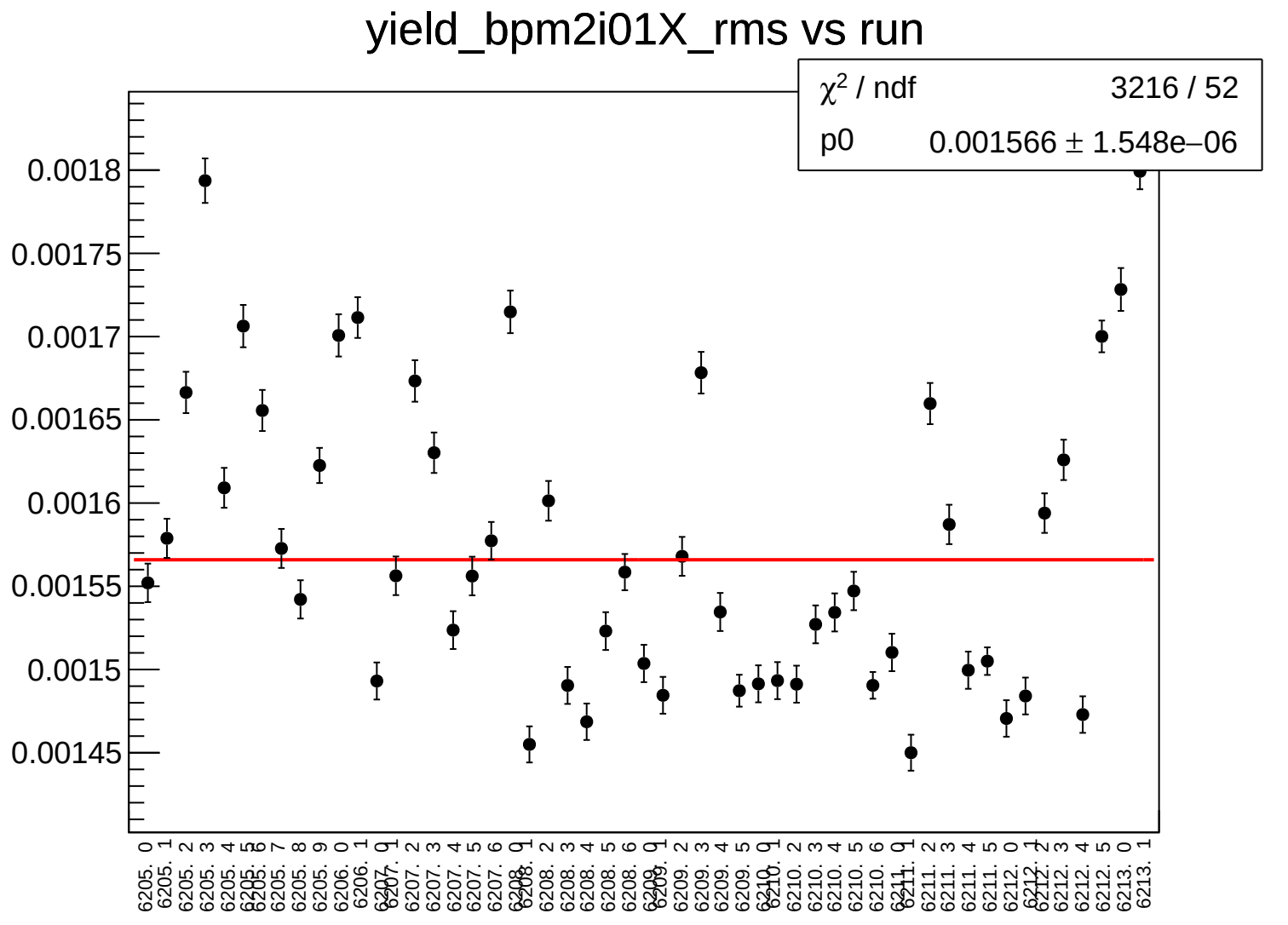

yield_bpm1i06Y_mean vs run
χ² / ndf 4.111e+05 / 52
p0 −1.949 ± 9.071e−06
−1.935
−1.94
−1.945
−1.95
−1.955
−1.96
pull
Entries 53
Mean −532.4
Std Dev 559.2
200
150
100
50
0
−50
−100
−150

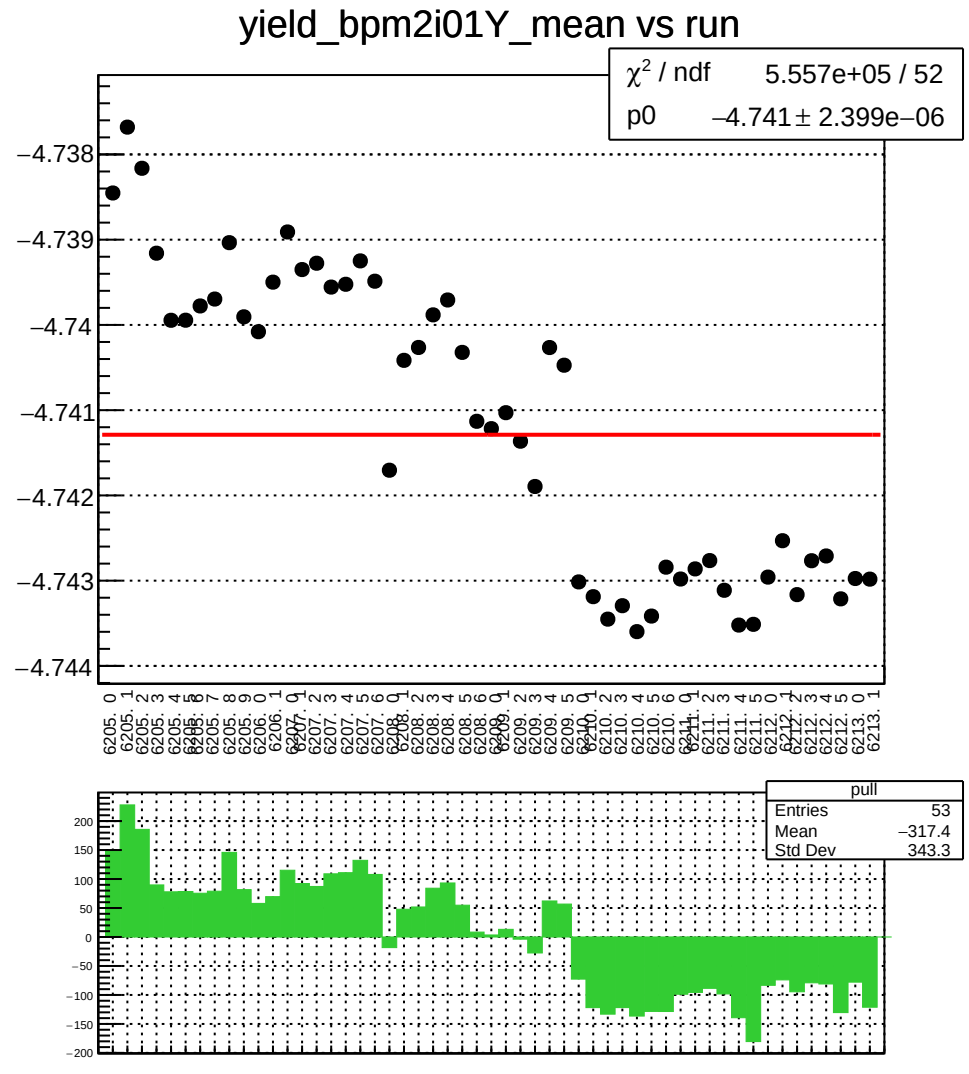

pull1D
Entries 53
Mean −0.7144
Std Dev 3.833
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

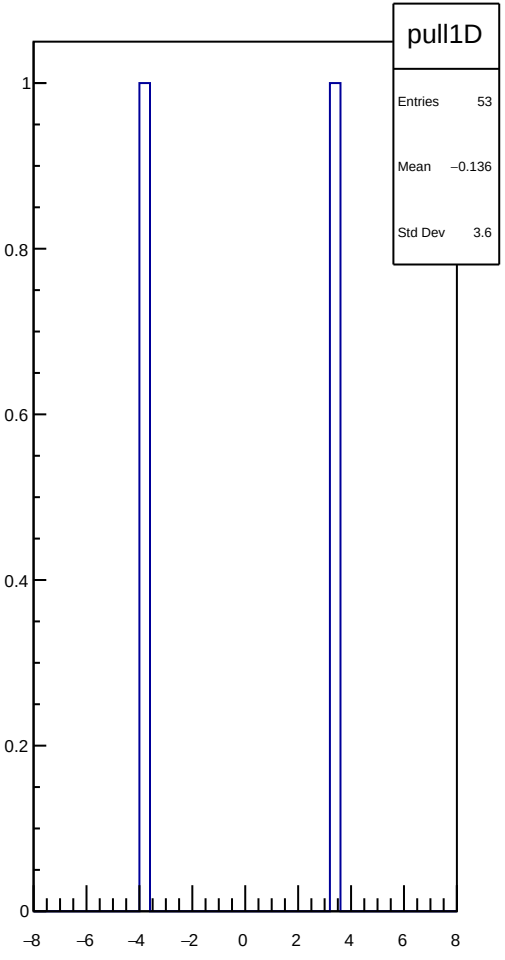

yield_bpm1i06Y_rms vs run
χ² / ndf 1.681e+04 / 52
p0 0.006444 ± 6.414e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

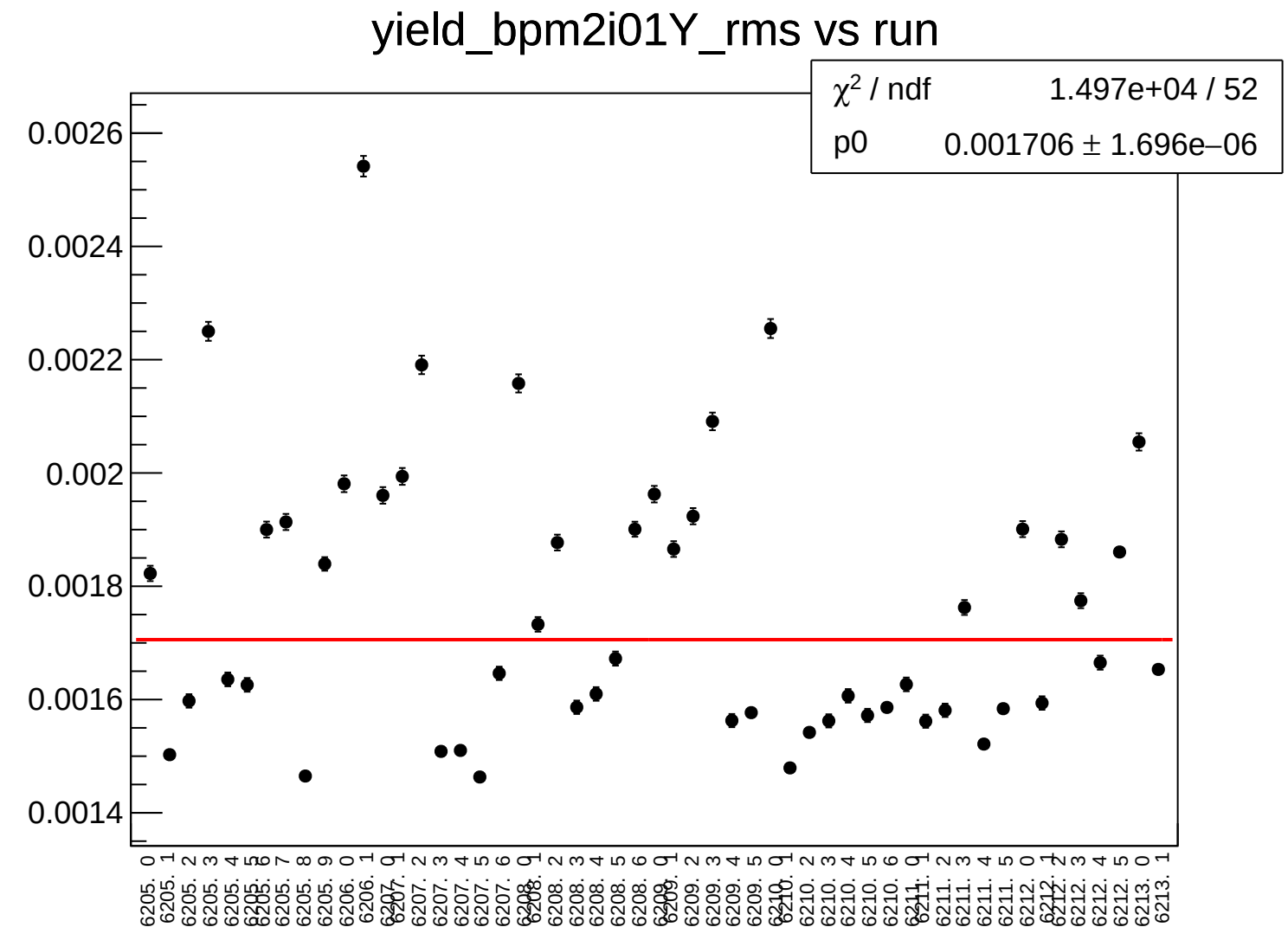

yield_bpm2i01X_mean vs run
χ² / ndf 2.371e+05 / 52
p0 0.3217 ± 2.19e−06
0.325
0.324
0.323
0.322
0.321
0.32
pull
Entries 53
Mean −304.9
Std Dev 331.4
150
100
50
0
−50
−100
−150

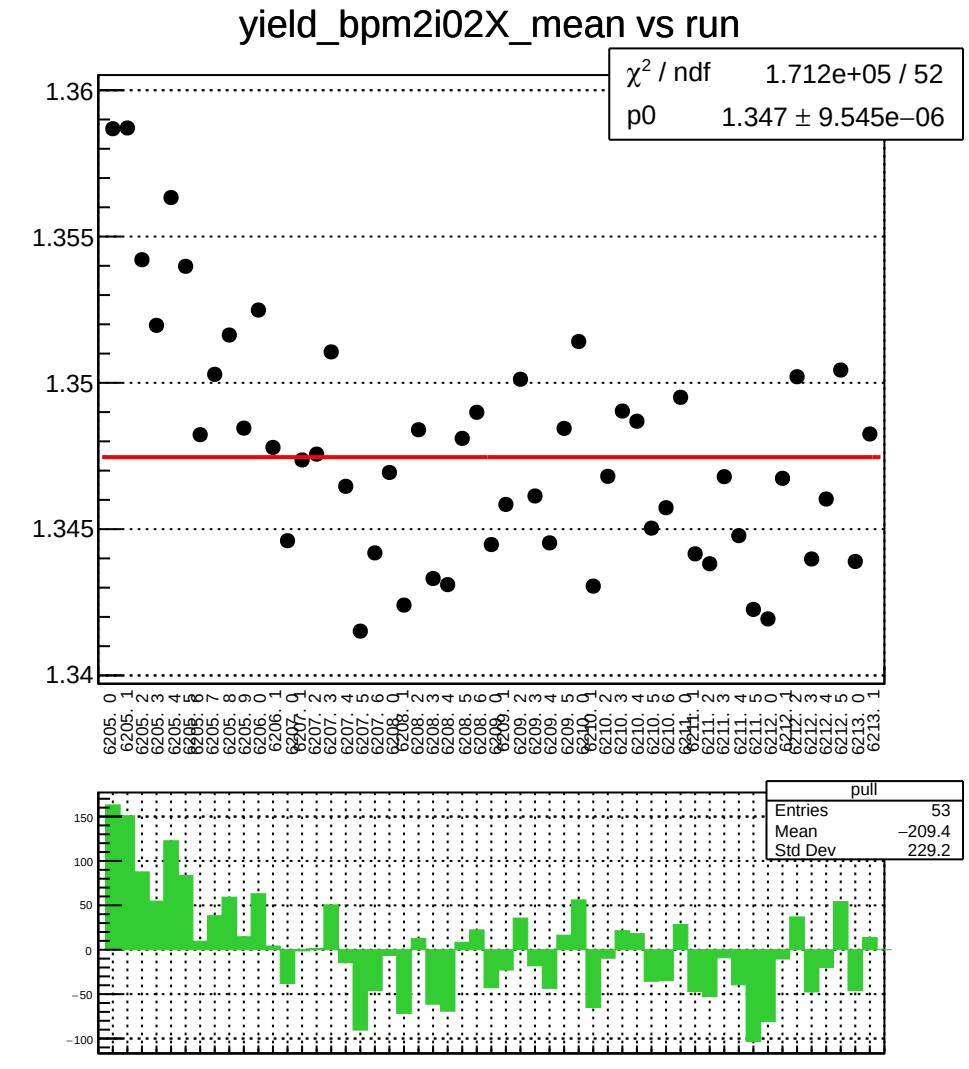

pull1D
Entries 53
Mean 1.482
Std Dev 4.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

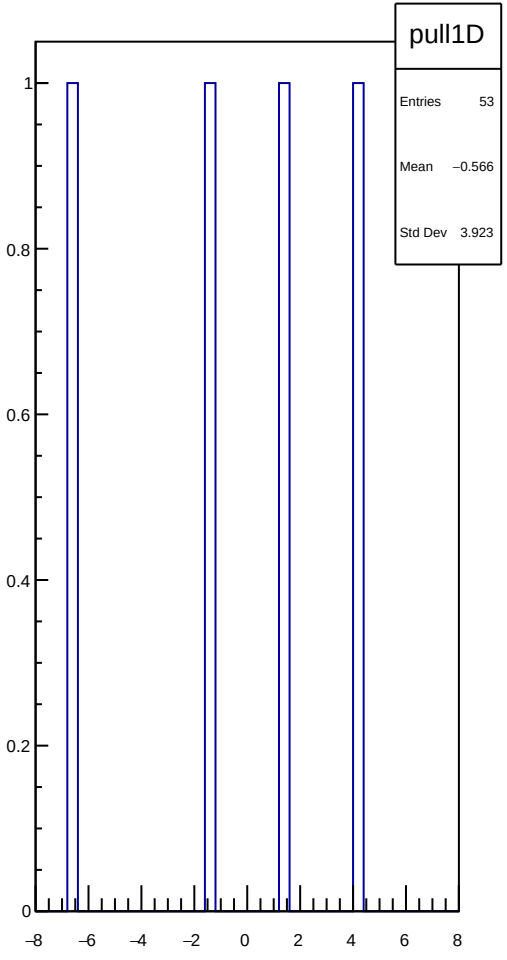

yield_bpm2i01X_rms vs run
χ² / ndf 3216 / 52
p0 0.001566 ± 1.548e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

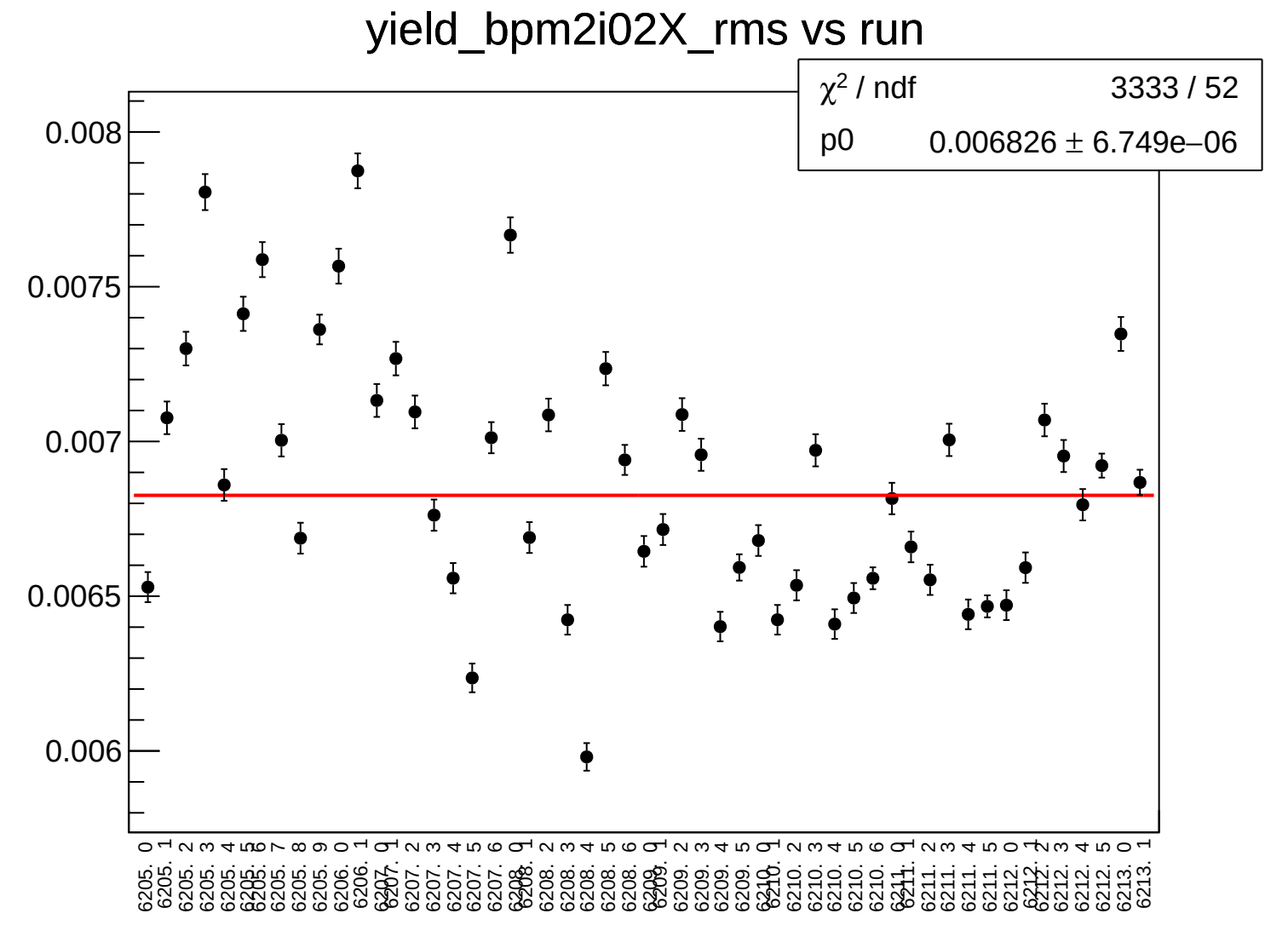

yield_bpm2i01Y_mean vs run
χ² / ndf 5.557e+05 / 52
p0 −4.741 ± 2.399e−06
−4.738
−4.739
−4.74
−4.741
−4.742
−4.743
−4.744
pull
Entries 53
Mean −317.4
Std Dev 343.3
200
150
100
50
0
−50
−100
−150
−200

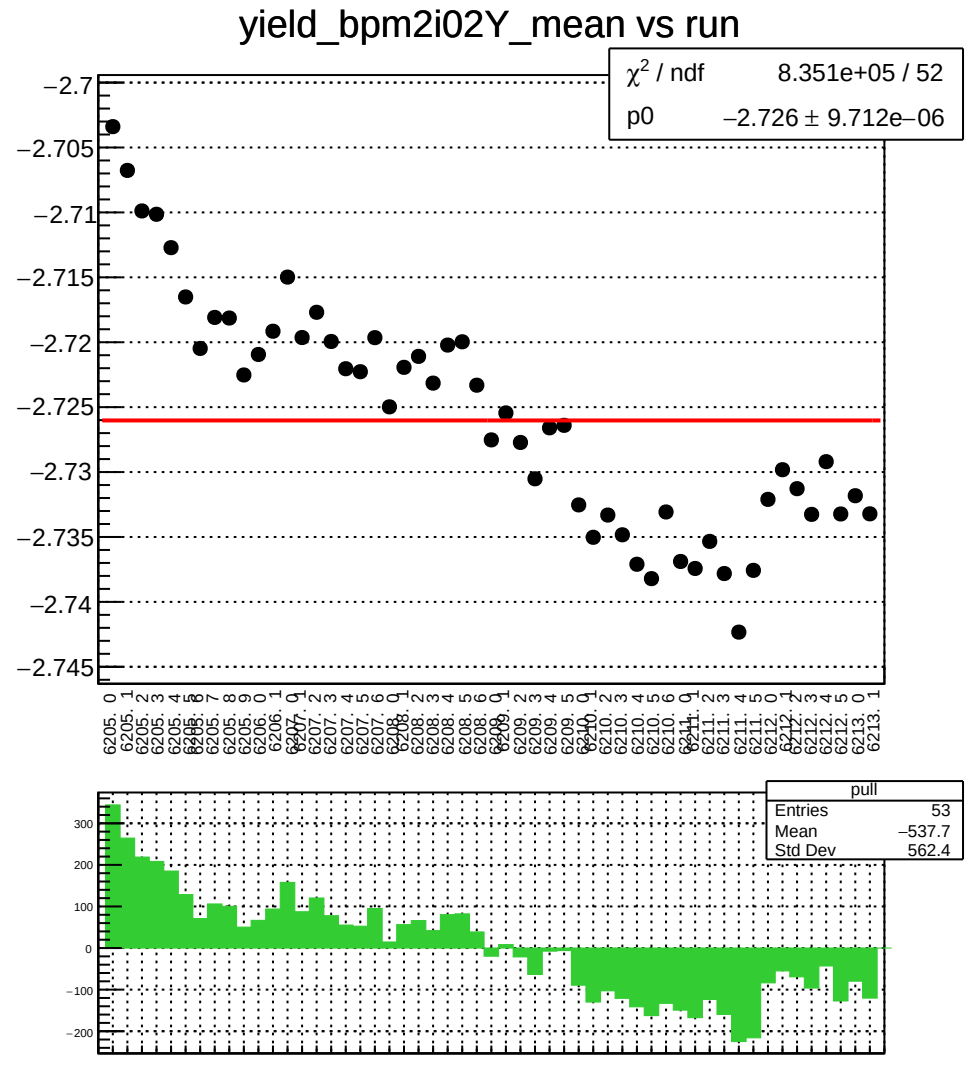

pull1D
Entries 53
Mean −0.136
Std Dev 3.6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

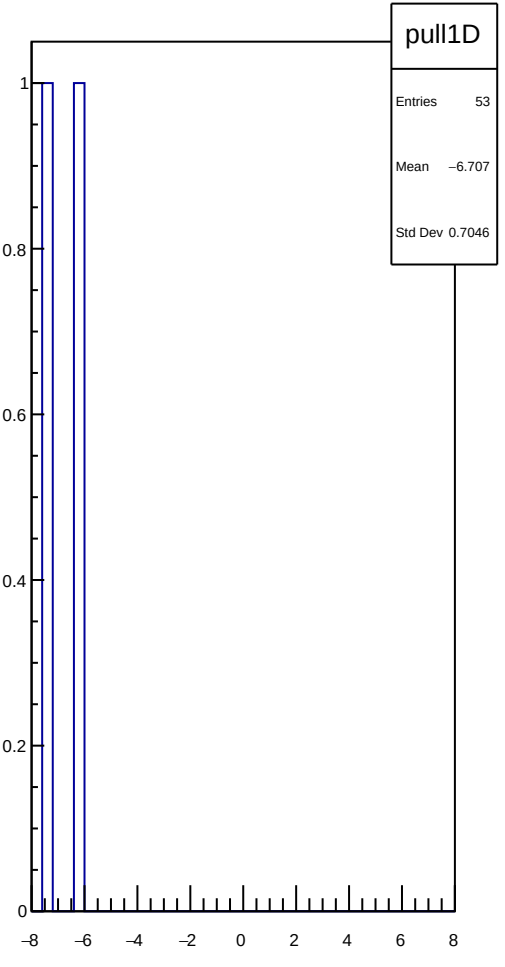

yield_bpm2i01Y_rms vs run
χ² / ndf 1.497e+04 / 52
p0 0.001706 ± 1.696e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

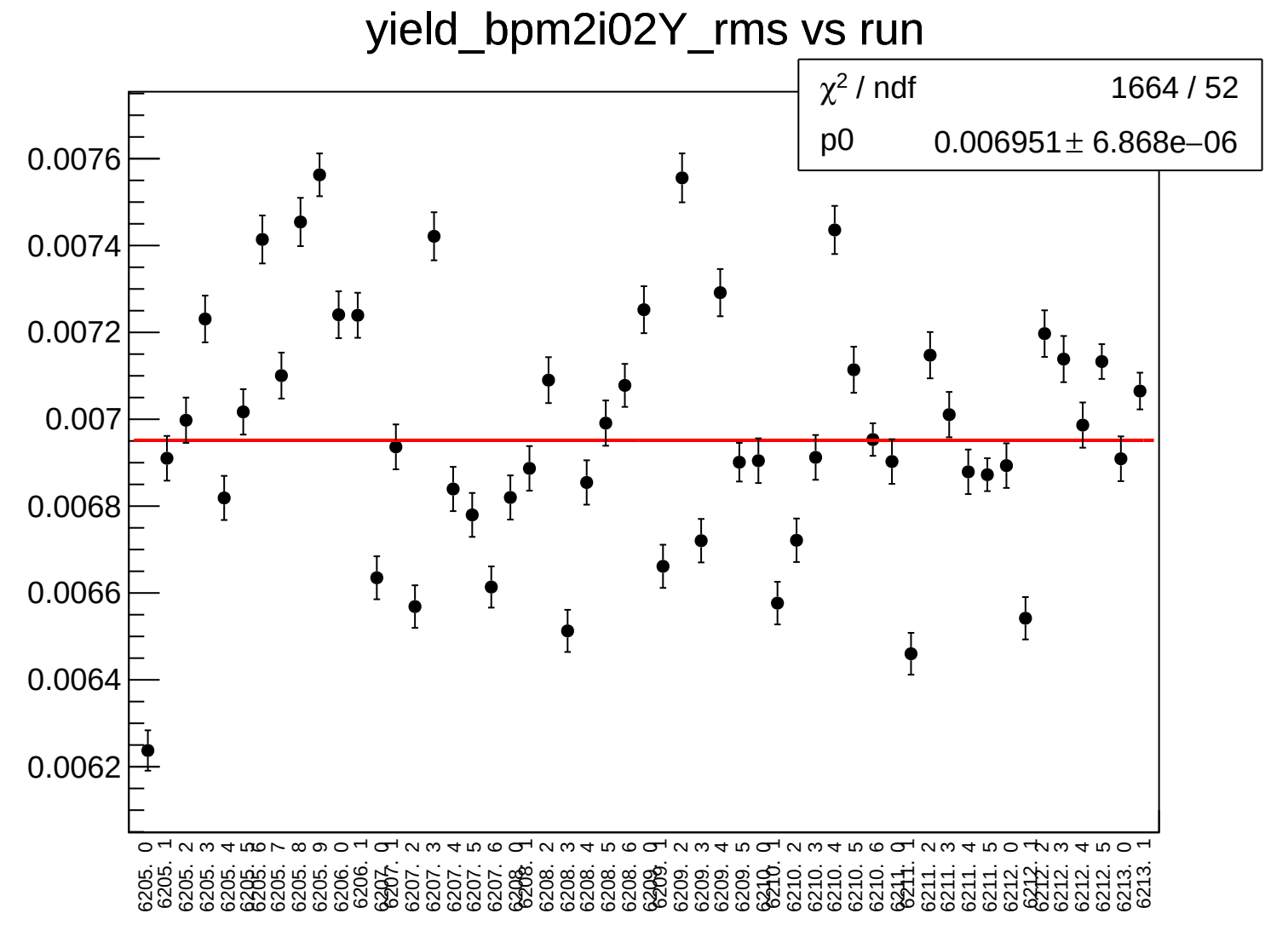

yield_bpm2i02X_mean vs run
χ² / ndf 1.712e+05 / 52
p0 1.347 ± 9.545e−06
1.36
1.355
1.35
1.345
1.34
pull
Entries 53
Mean −209.4
Std Dev 229.2
150
100
50
0
−50
−100

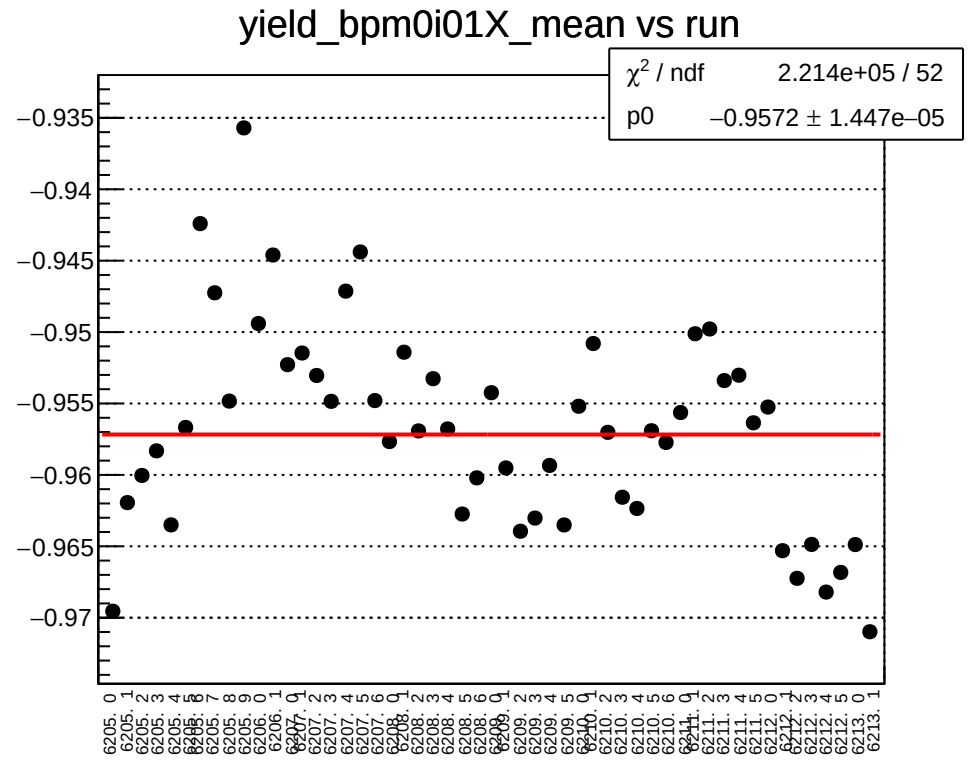

pull1D
Entries 53
Mean −0.566
Std Dev 3.923
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

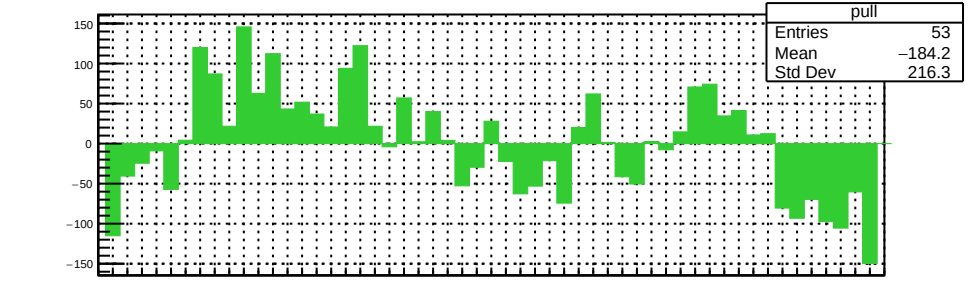

yield_bpm2i02X_rms vs run
χ² / ndf 3333 / 52
p0 0.006826 ± 6.749e−06
0.008
0.0075
0.007
0.0065
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

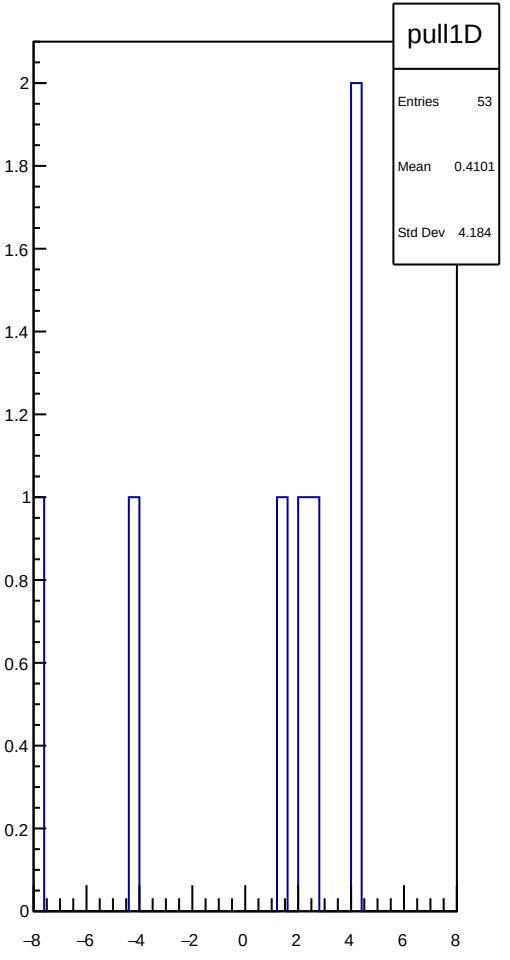

yield_bpm2i02Y_mean vs run
χ² / ndf 8.351e+05 / 52
p0 −2.726 ± 9.712e−06
−2.7
−2.705
−2.71
−2.715
−2.72
−2.725
−2.73
−2.735
−2.74
−2.745
pull
Entries 53
Mean −537.7
Std Dev 562.4
300
200
100
0
−100
−200

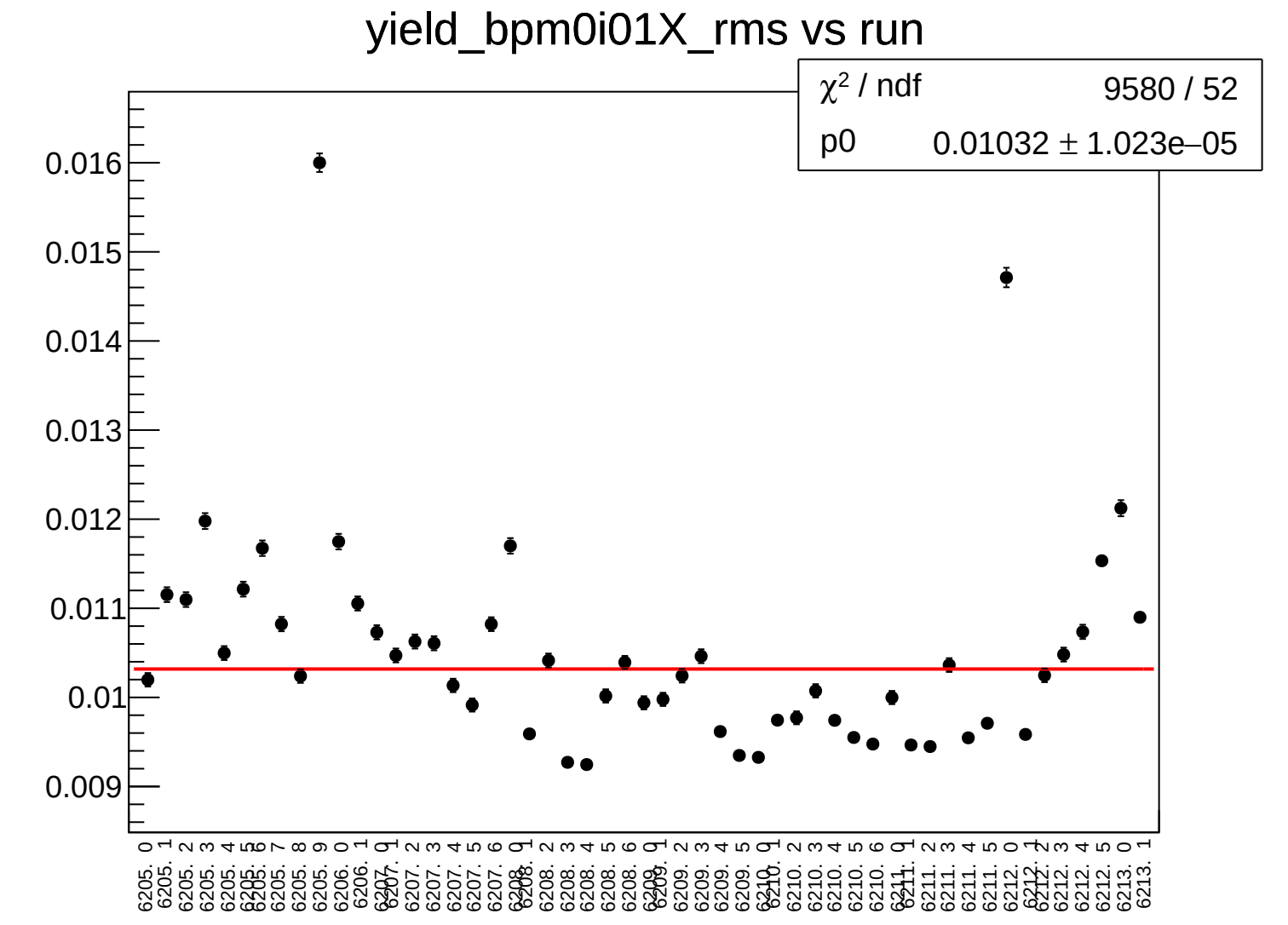

pull1D
Entries 53
Mean −6.707
Std Dev 0.7046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

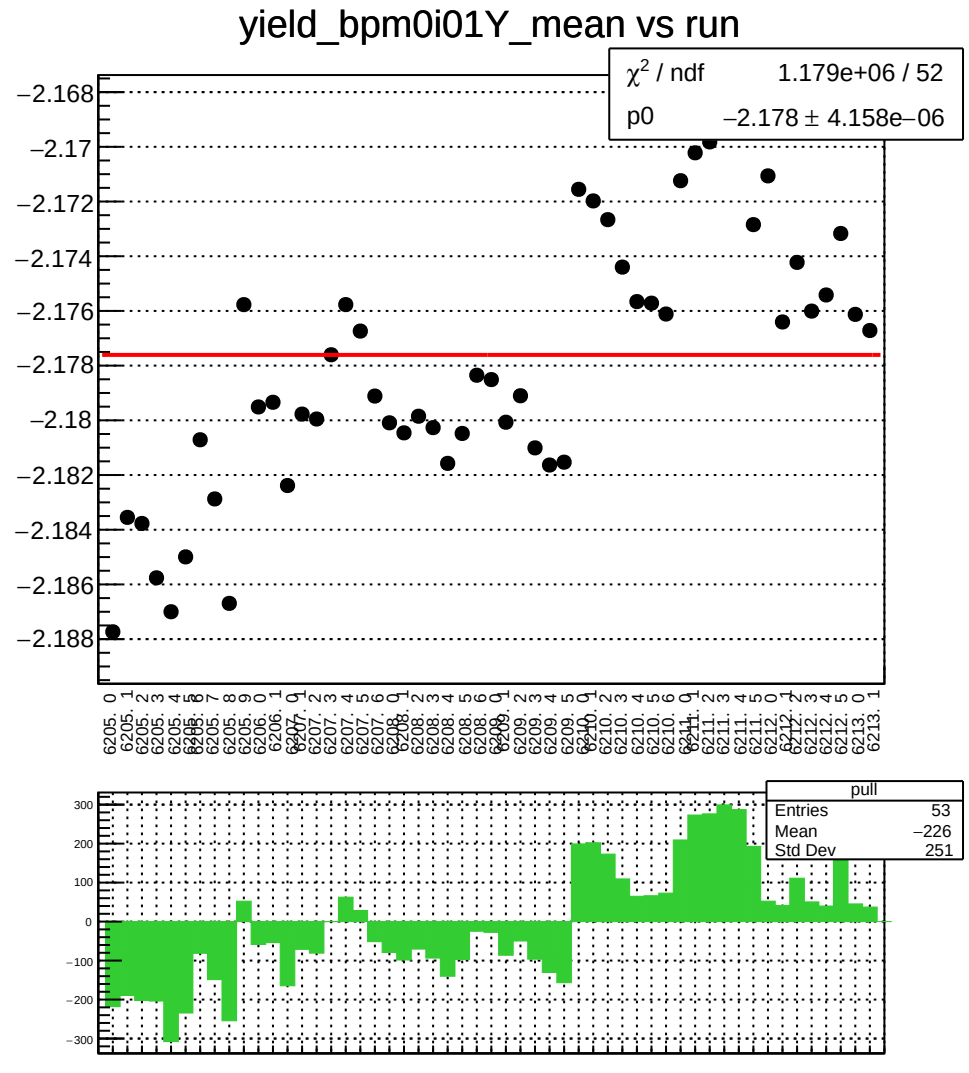

yield_bpm2i02Y_rms vs run
χ² / ndf 1664 / 52
p0 0.006951 ± 6.868e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

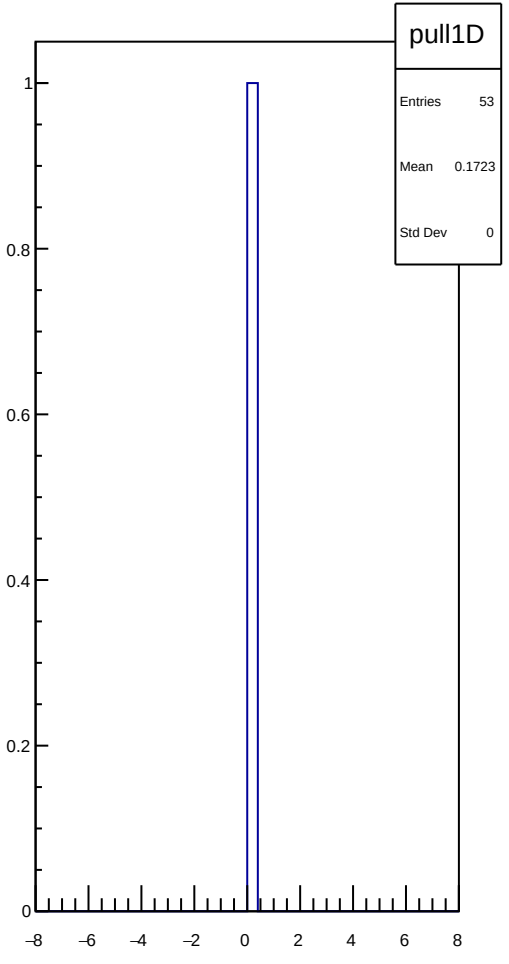

yield_bpm0i01X_mean vs run
χ² / ndf 2.214e+05 / 52
p0 −0.9572 ± 1.447e−05
−0.935
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
−0.97
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6206. 2
6206. 3
6206. 4
6206. 5
6206. 6
6206. 7
6206. 8
6206. 9
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6207. 7
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 7
6208. 8
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6209. 6
6209. 7
6209. 8
6209. 9
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6210. 7
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

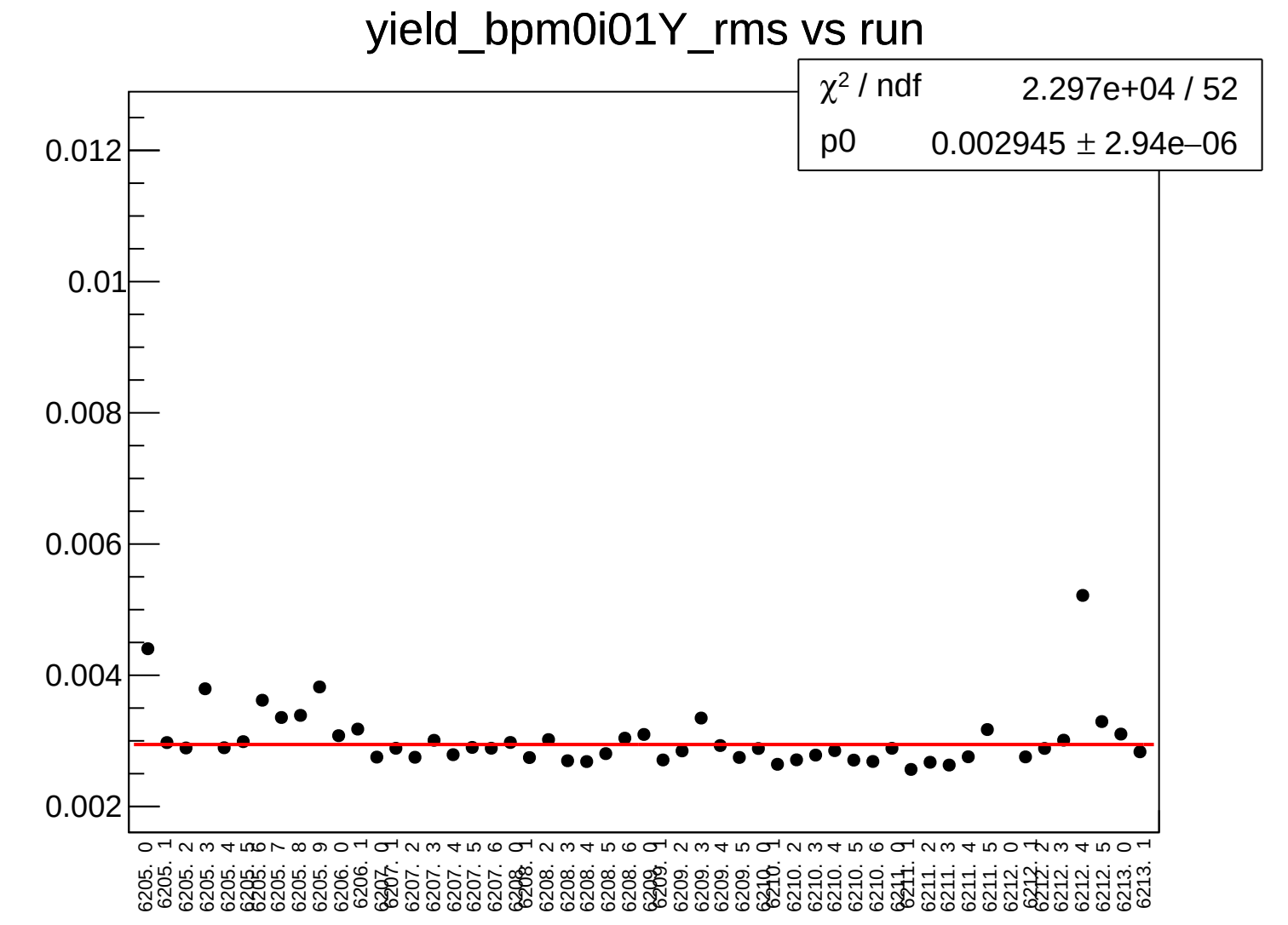

pull
Entries 53
Mean −184.2
Std Dev 216.3
150
100
50
0
−50
−100
−150

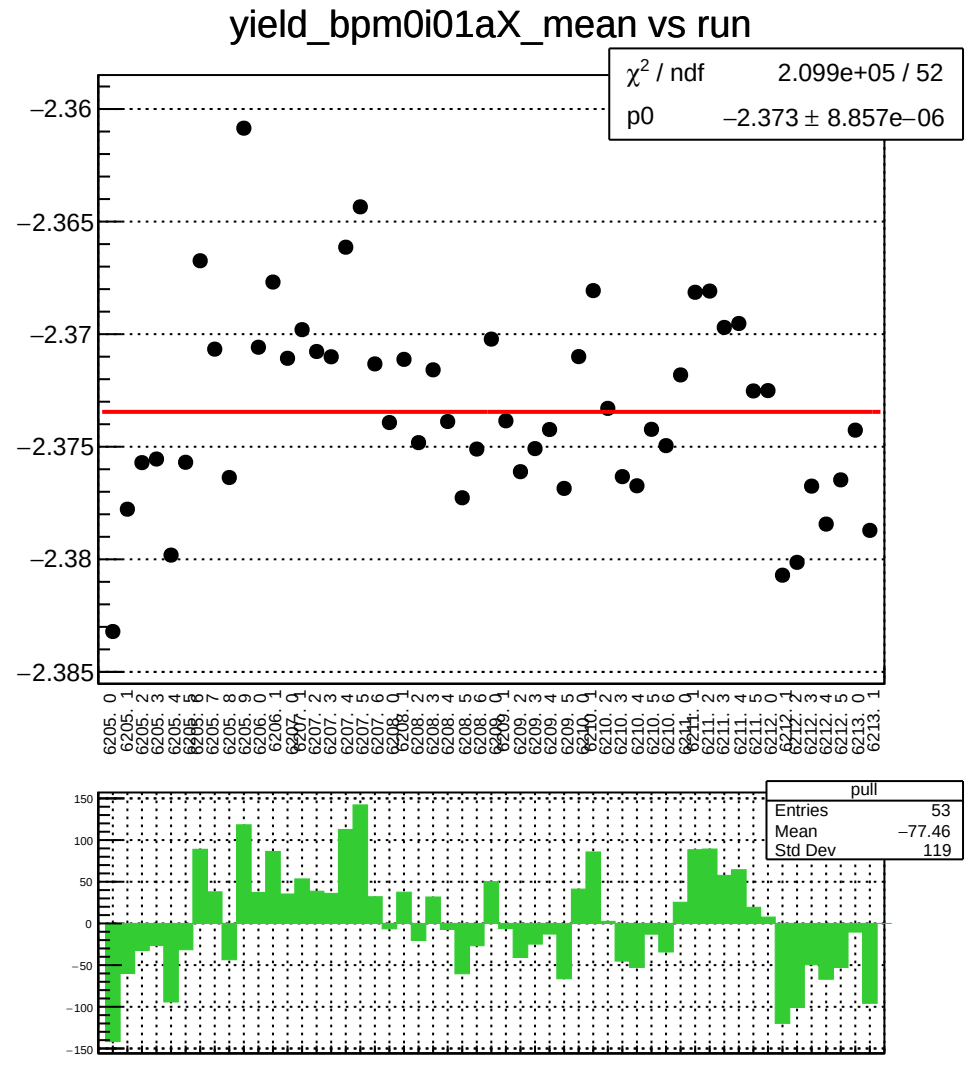

pull1D
Entries 53
Mean 0.4101
Std Dev 4.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

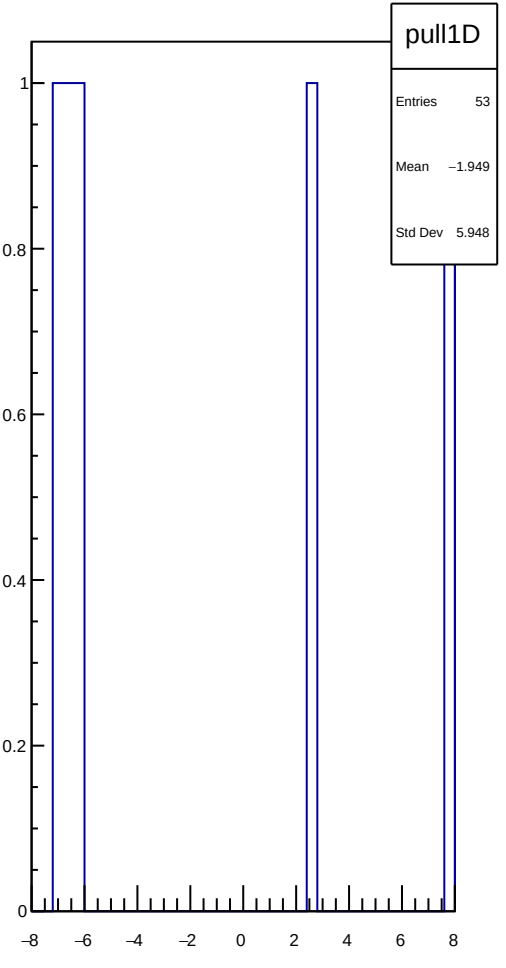

yield_bpm0i01X_rms vs run
χ² / ndf 9580 / 52
p0 0.01032 ± 1.023e–05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

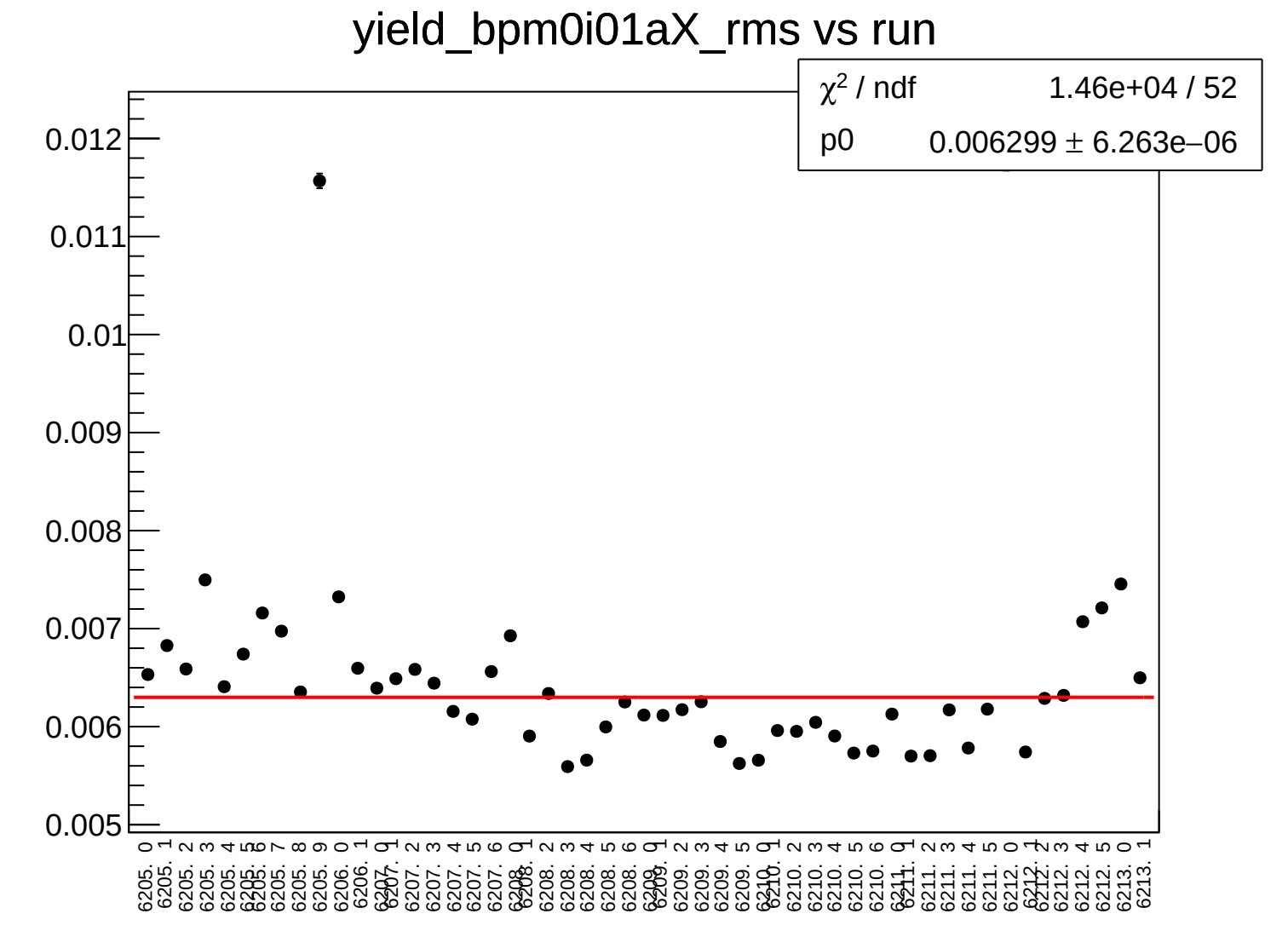

yield_bpm0i01Y_mean vs run
χ² / ndf 1.179e+06 / 52
p0 −2.178 ± 4.158e−06
−2.168
−2.17
−2.172
−2.174
−2.176
−2.178
−2.18
−2.182
−2.184
−2.186
−2.188
pull
Entries 53
Mean −226
Std Dev 251
300
200
100
0
−100
−200
−300

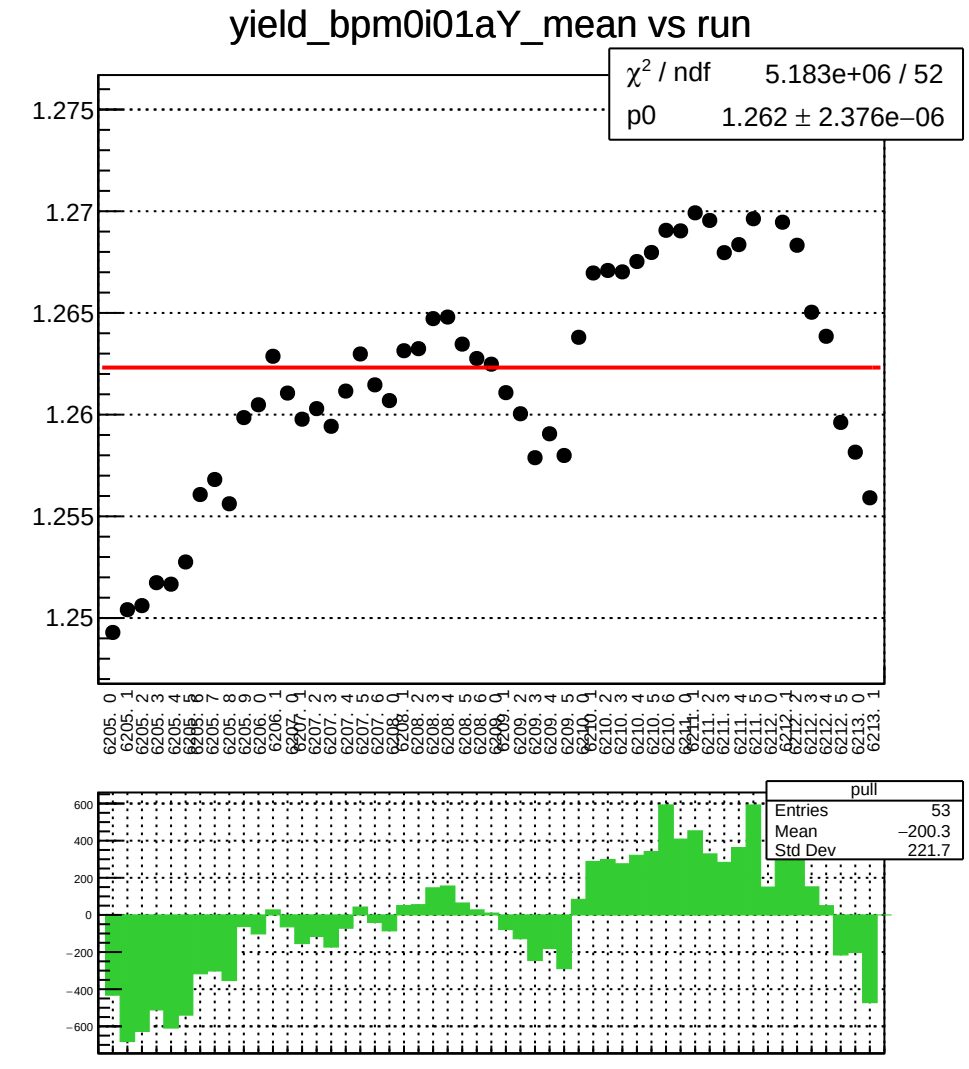

pull1D
Entries 53
Mean 0.1723
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

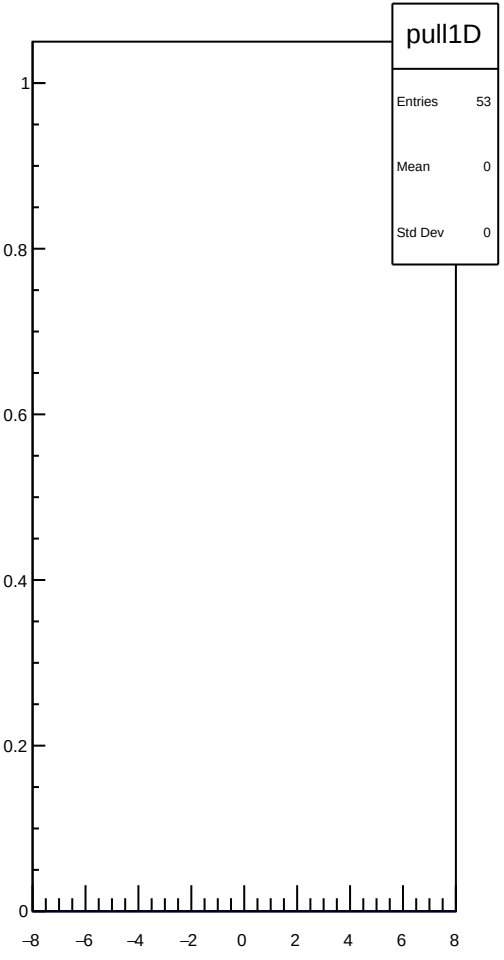

yield_bpm0i01Y_rms vs run
χ² / ndf 2.297e+04 / 52
p0 0.002945 ± 2.94e–06
0.012
0.01
0.008
0.006
0.004
0.002
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

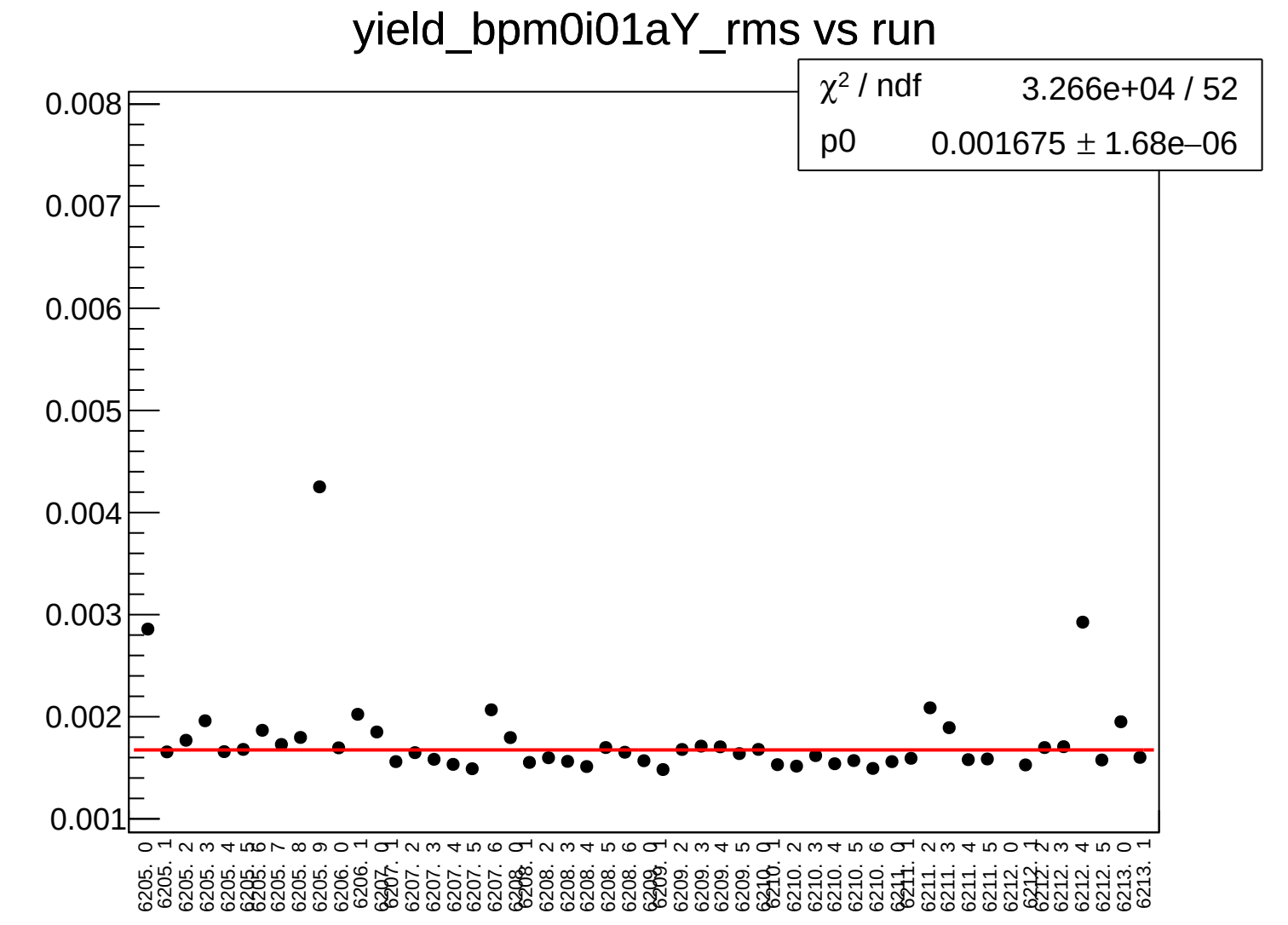

yield_bpm0i01aX_mean vs run
χ² / ndf 2.099e+05 / 52
p0 −2.373 ± 8.857e−06
−2.36
−2.365
−2.37
−2.375
−2.38
−2.385
pull
Entries 53
Mean −77.46
Std Dev 119
150
100
50
0
−50
−100
−150

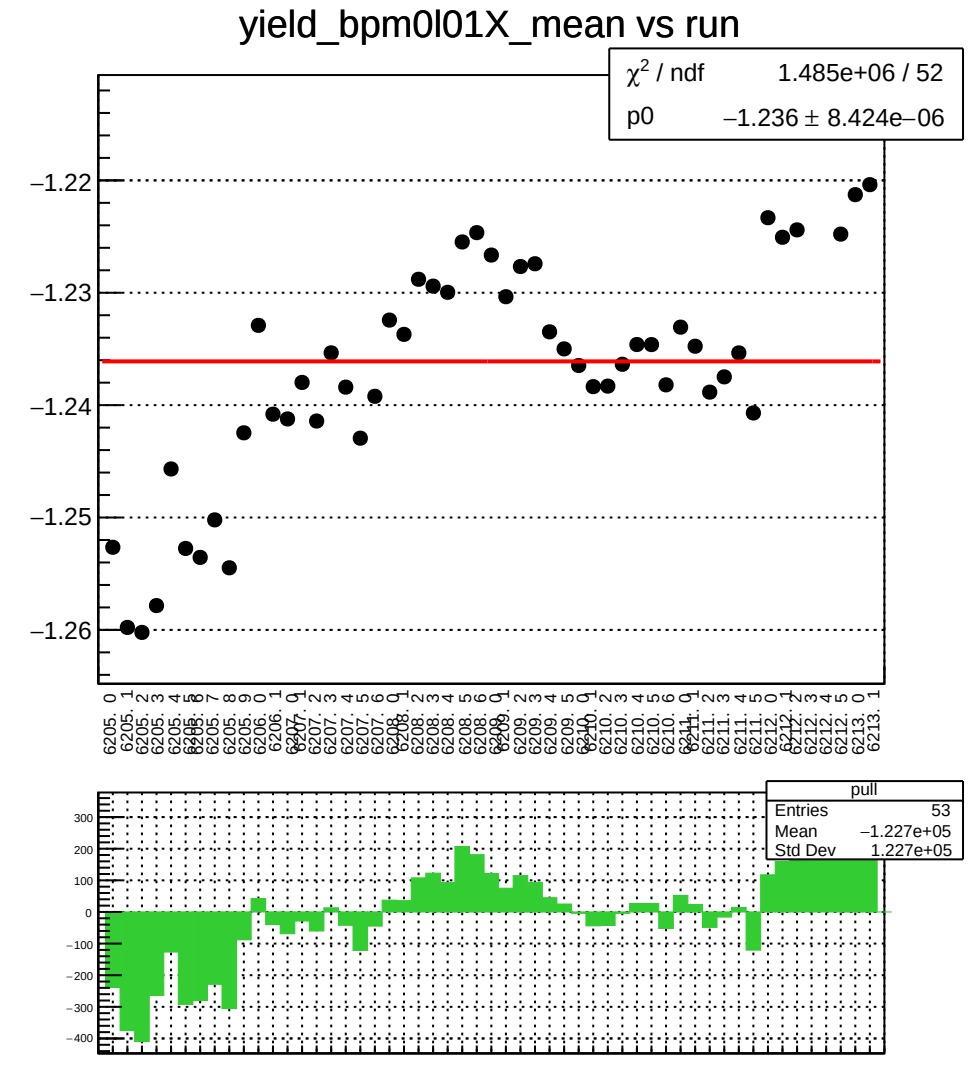

pull1D
Entries 53
Mean −1.949
Std Dev 5.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

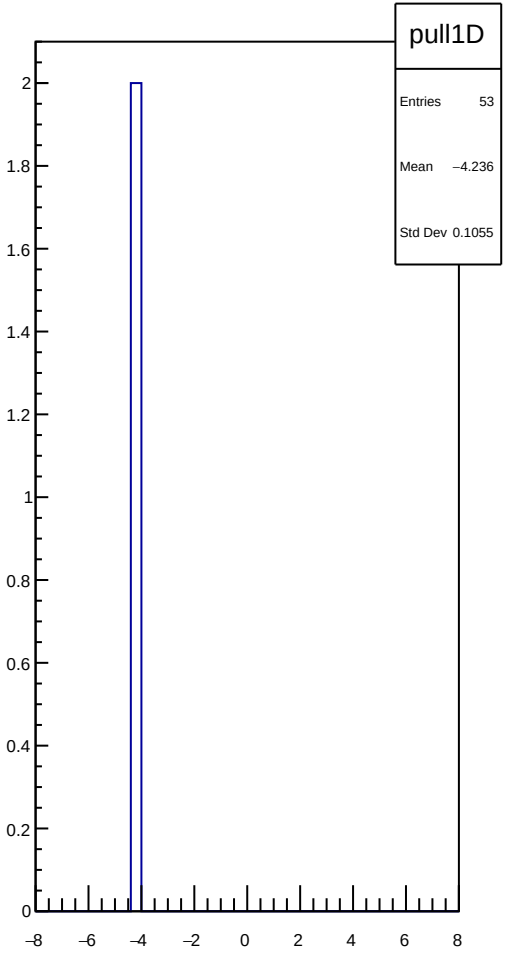

yield_bpm0i01aX_rms vs run
χ² / ndf 1.46e+04 / 52
p0 0.006299 ± 6.263e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

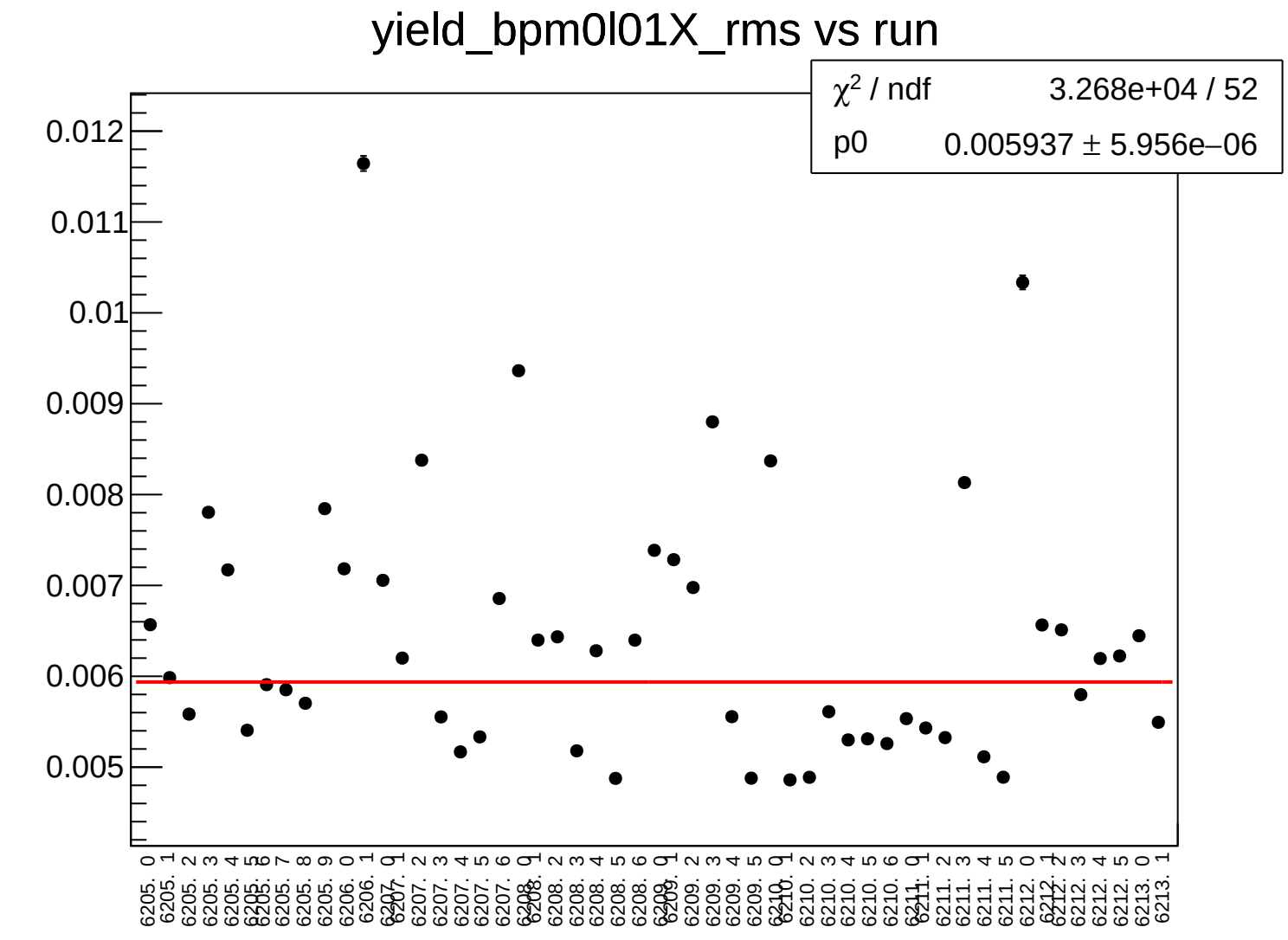

yield_bpm0i01aY_mean vs run
χ² / ndf 5.183e+06 / 52
p0 1.262 ± 2.376e−06
1.275
1.27
1.265
1.26
1.255
1.25
pull
Entries 53
Mean −200.3
Std Dev 221.7
600
400
200
0
−200
−400
−600

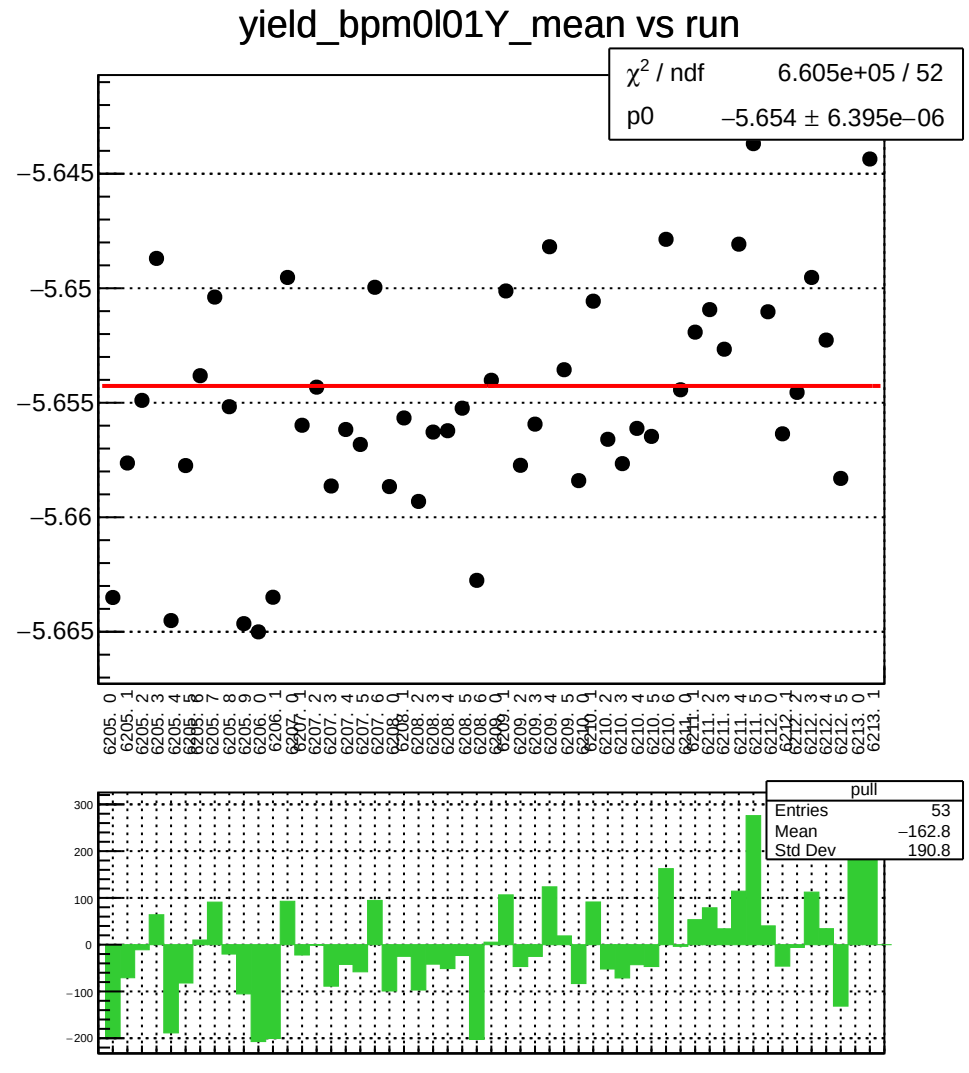

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

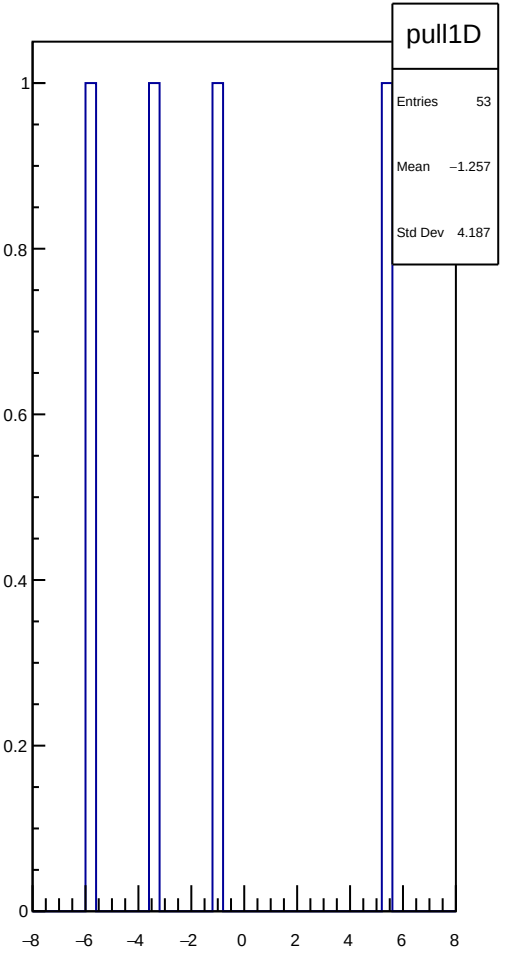

yield_bpm0i01aY_rms vs run
χ² / ndf 3.266e+04 / 52
p0 0.001675 ± 1.68e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

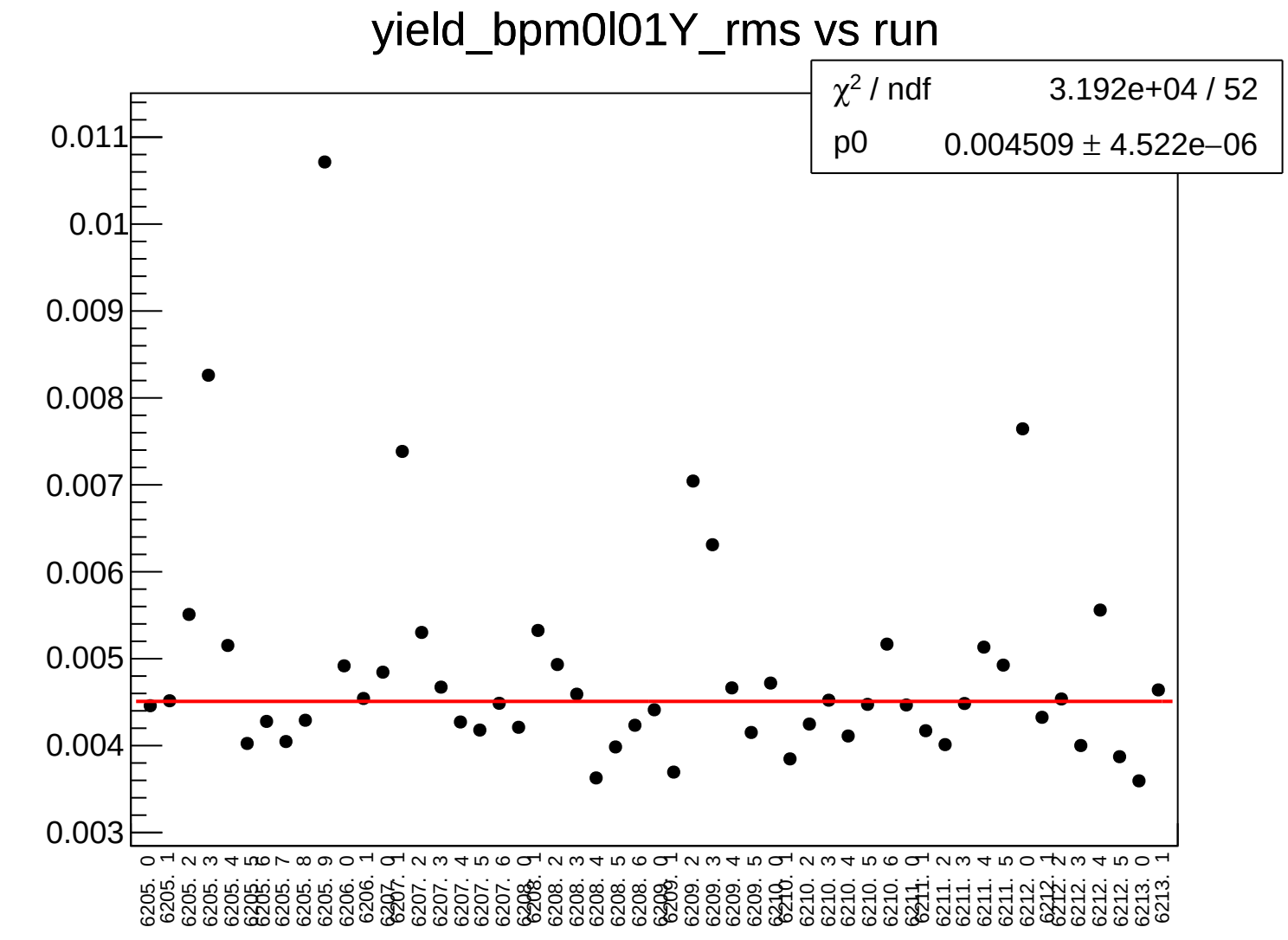

yield_bpm0l01X_mean vs run
χ² / ndf 1.485e+06 / 52
p0 −1.236 ± 8.424e−06
−1.22
−1.23
−1.24
−1.25
−1.26
pull
Entries 53
Mean −1.227e+05
Std Dev 1.227e+05
300
200
100
0
−100
−200
−300
−400

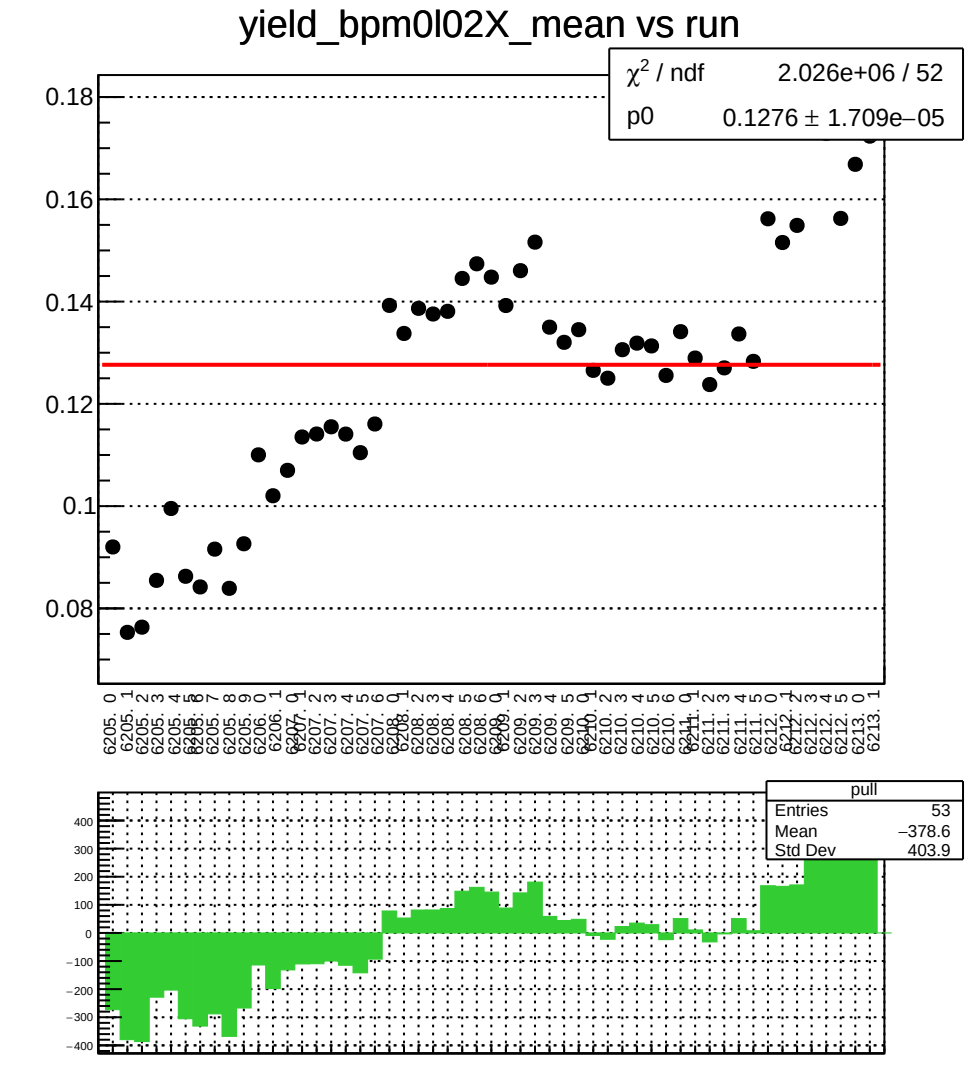

pull1D
Entries 53
Mean −4.236
Std Dev 0.1055
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

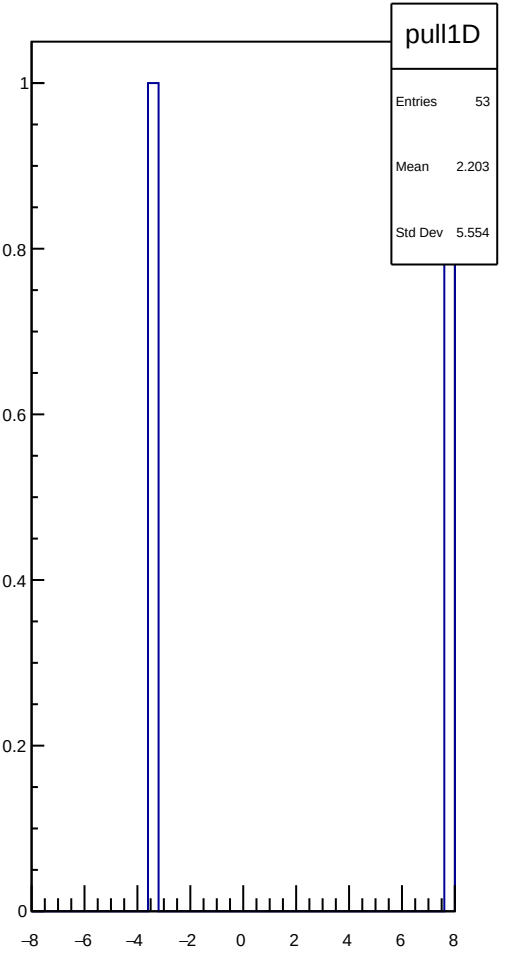

yield_bpm0l01X_rms vs run
χ^2 / ndf 3.268e+04 / 52
p0 0.005937 ± 5.956e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

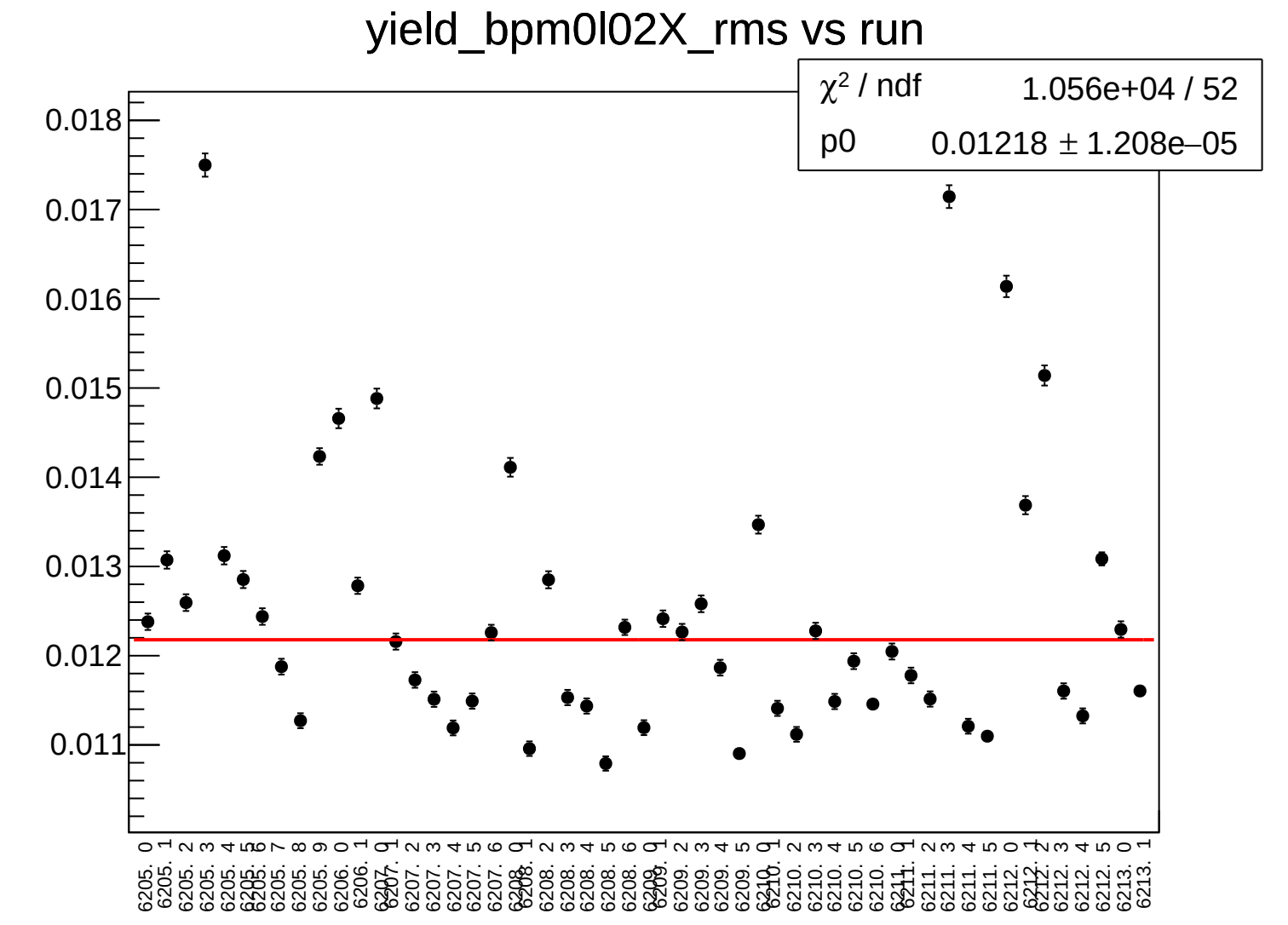

yield_bpm0l01Y_mean vs run
χ² / ndf 6.605e+05 / 52
p0 −5.654 ± 6.395e−06
−5.645
−5.65
−5.655
−5.66
−5.665
pull
Entries 53
Mean −162.8
Std Dev 190.8
300
200
100
0
−100
−200

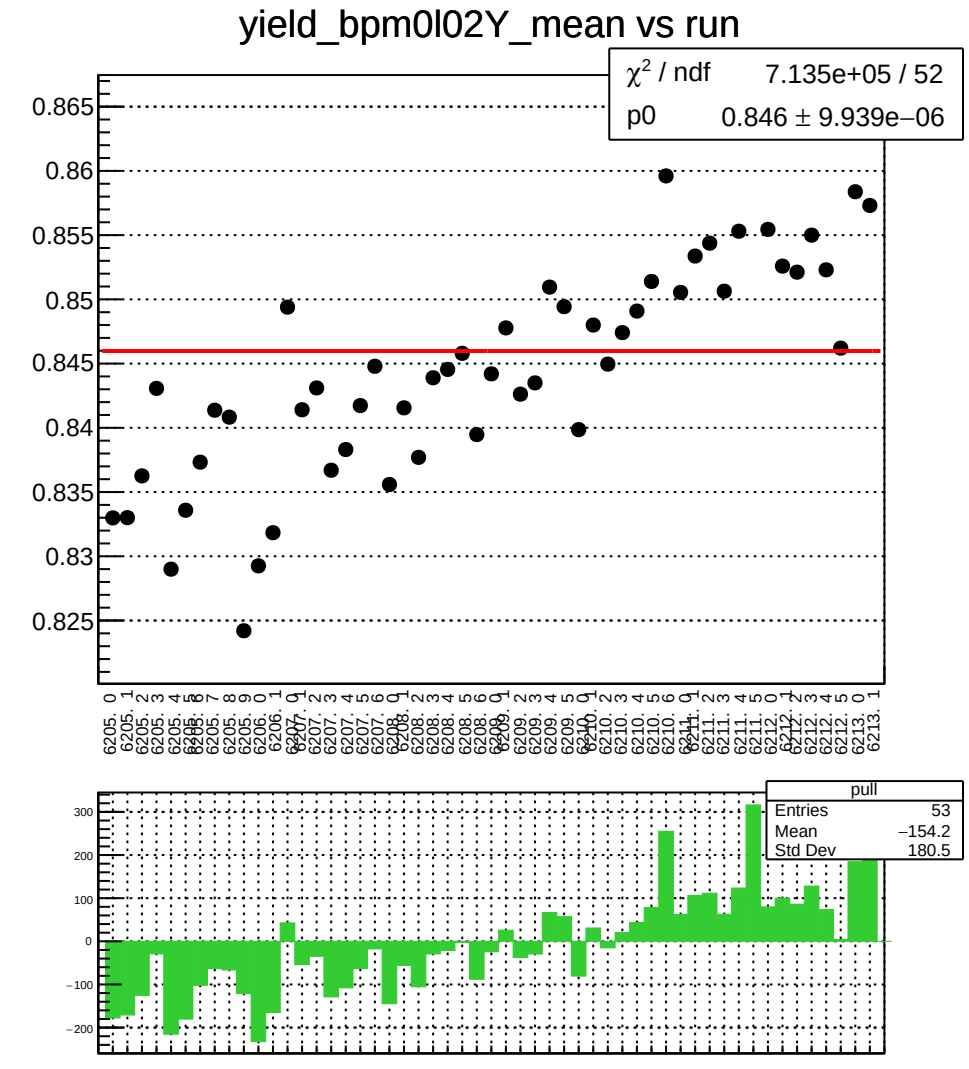

pull1D
Entries 53
Mean −1.257
Std Dev 4.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

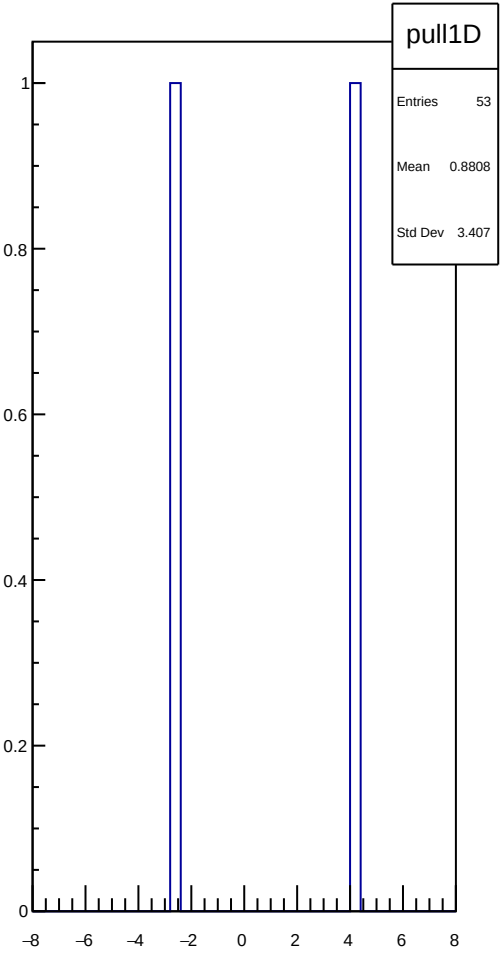

yield_bpm0l01Y_rms vs run
χ² / ndf 3.192e+04 / 52
p0 0.004509 ± 4.522e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

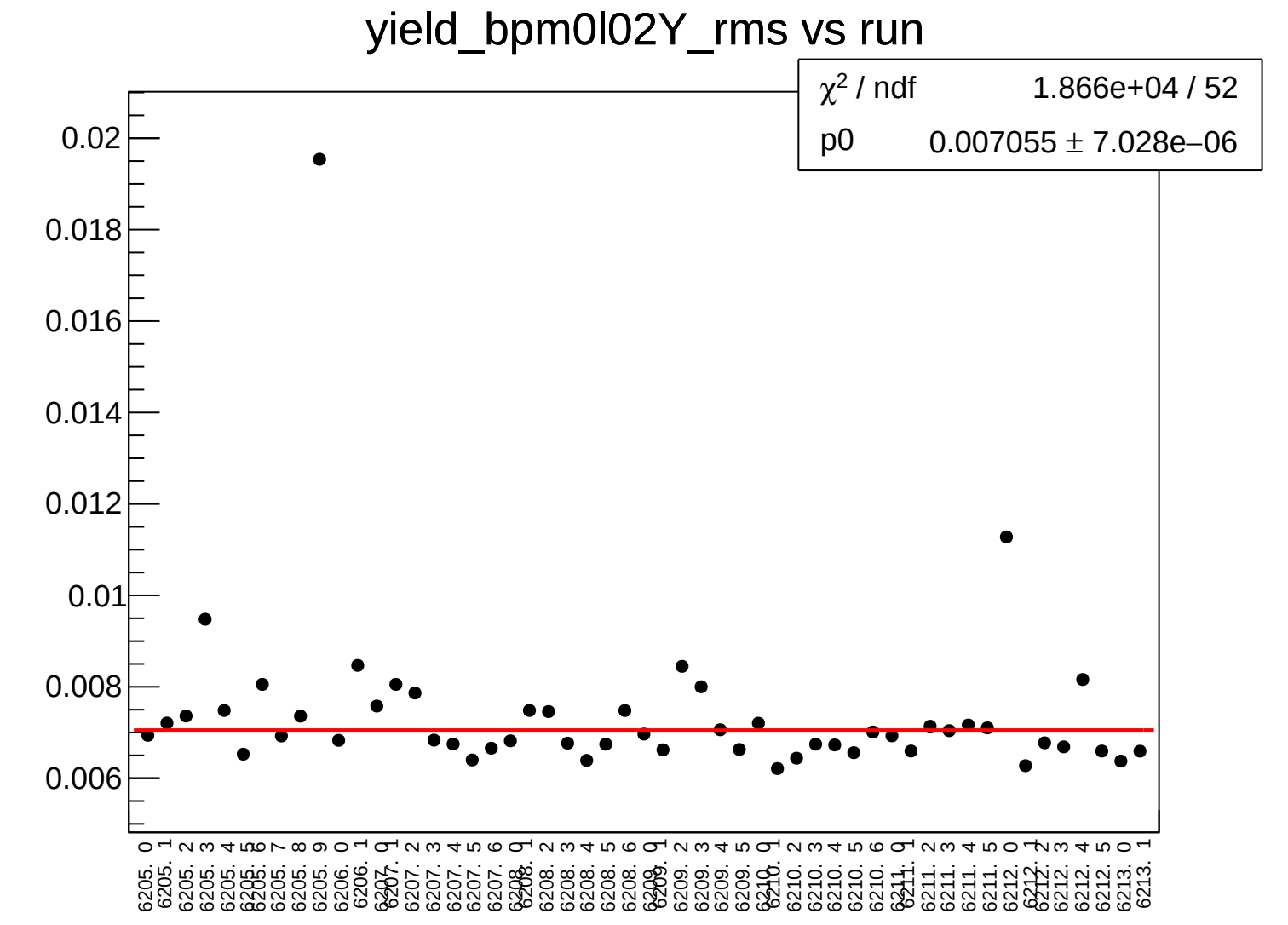

yield_bpm0l02X_mean vs run
χ² / ndf 2.026e+06 / 52
p0 0.1276 ± 1.709e−05
0.18
0.16
0.14
0.12
0.1
0.08
pull
Entries 53
Mean −378.6
Std Dev 403.9
400
300
200
100
0
−100
−200
−300
−400

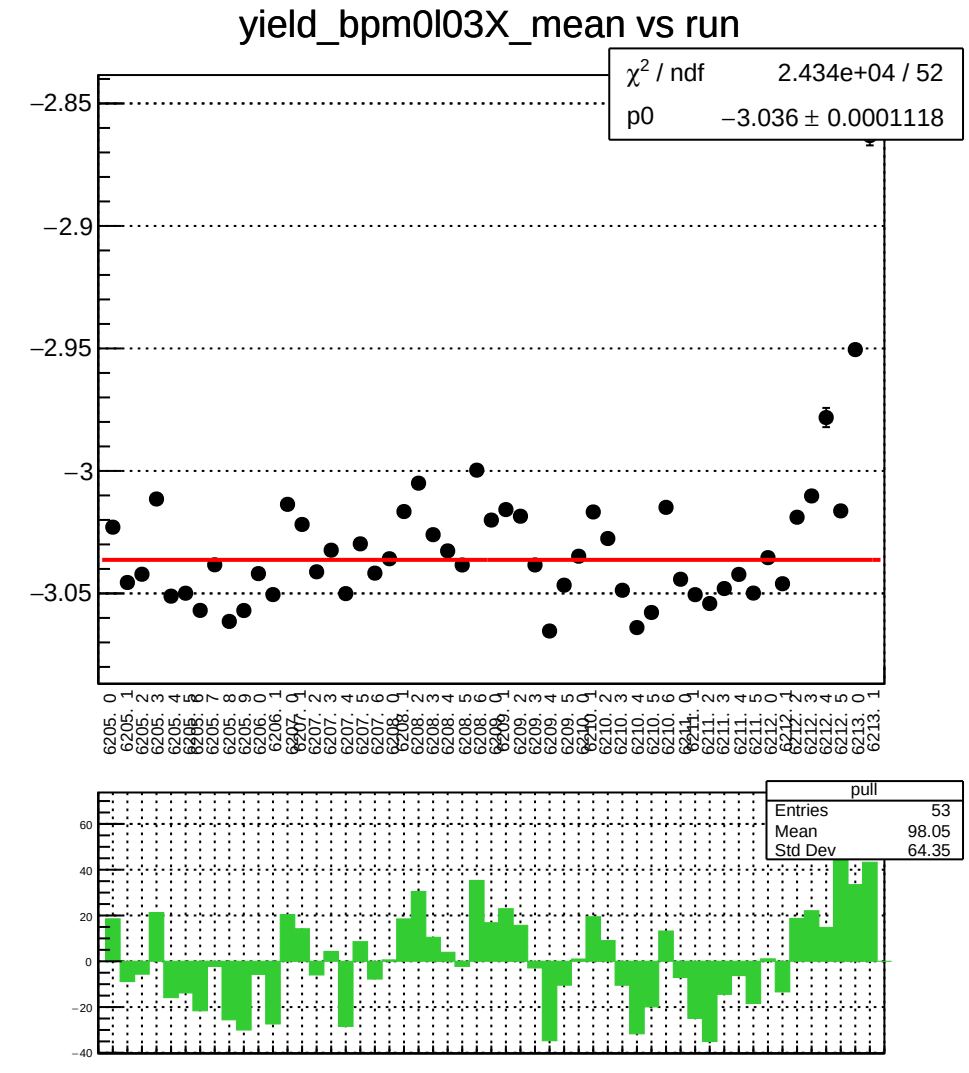

pull1D
Entries 53
Mean 2.203
Std Dev 5.554
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

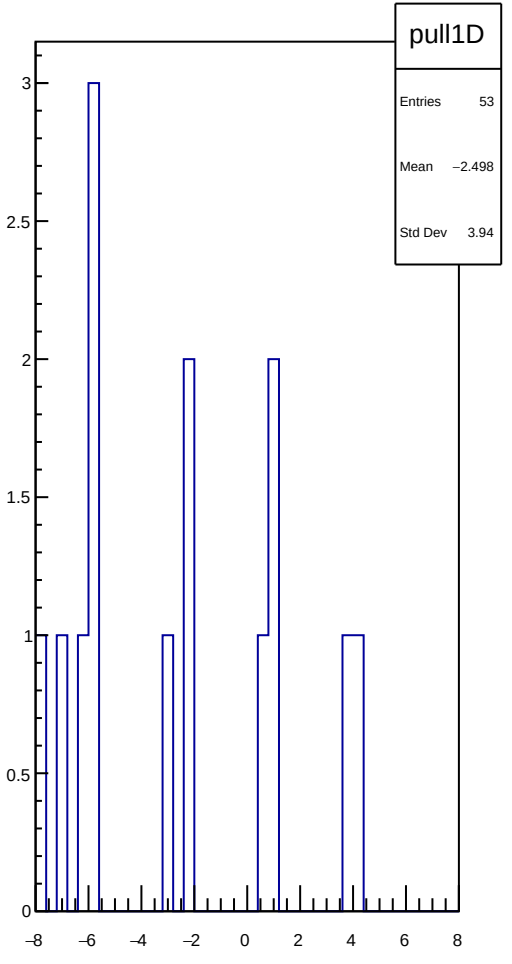

yield_bpm0l02X_rms vs run
χ² / ndf 1.056e+04 / 52
p0 0.01218 ± 1.208e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

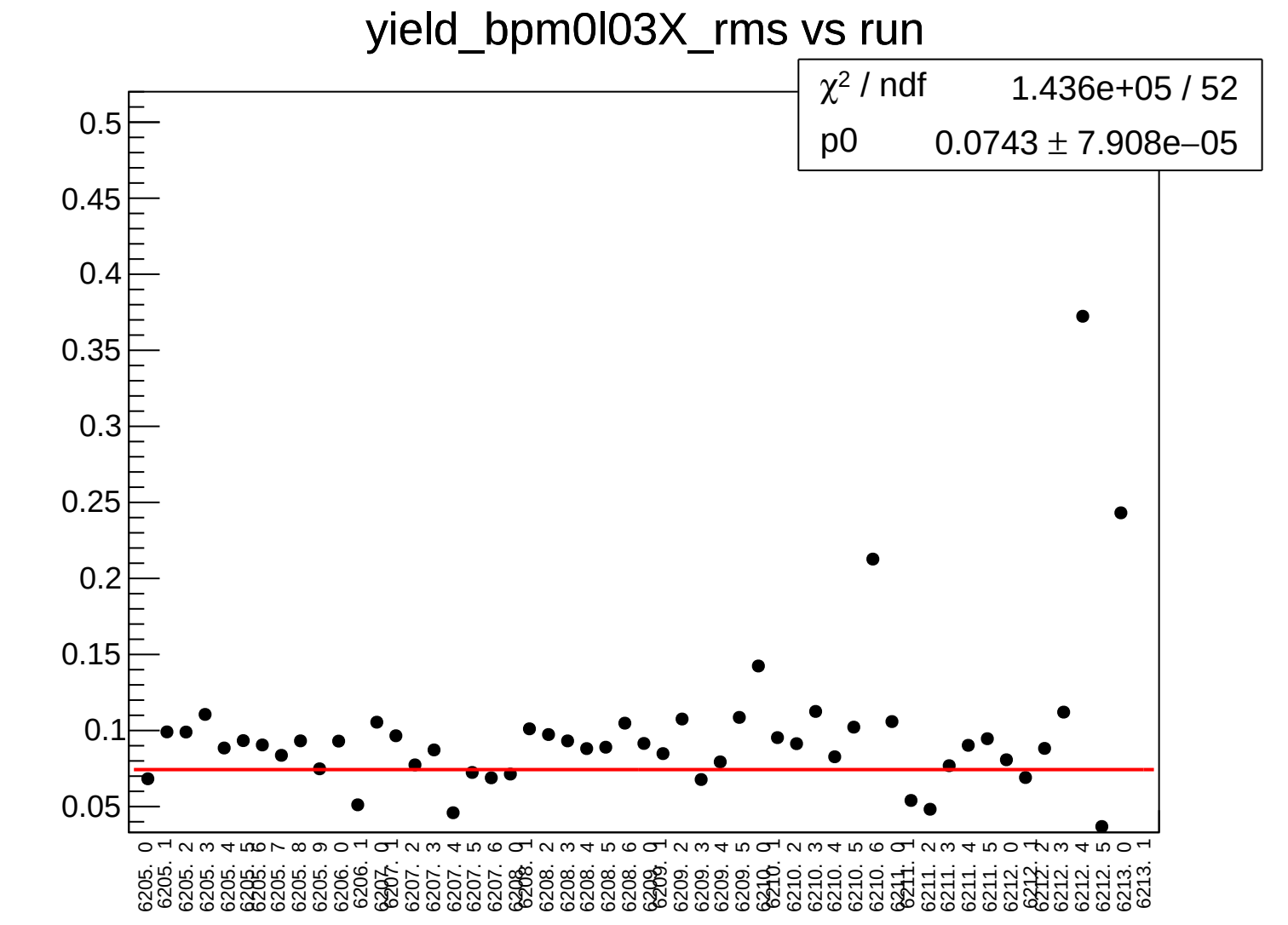

yield_bpm0l02Y_mean vs run
χ² / ndf 7.135e+05 / 52
p0 0.846 ± 9.939e−06
pull
Entries 53
Mean −154.2
Std Dev 180.5

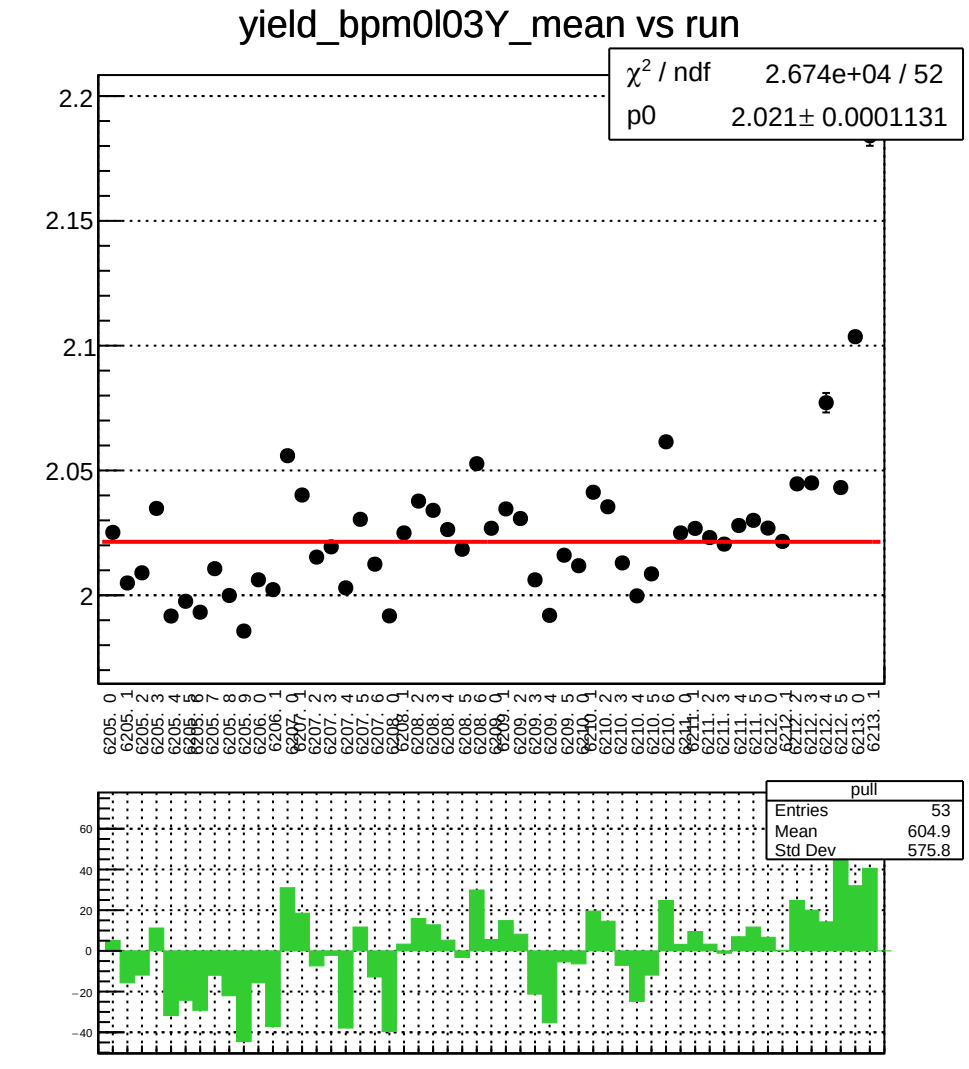

pull1D
Entries 53
Mean 0.8808
Std Dev 3.407

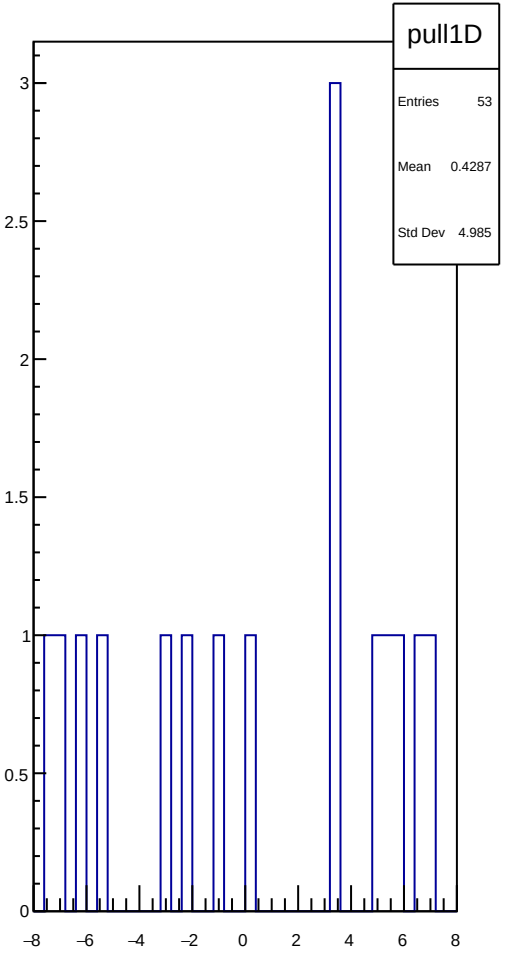

yield_bpm0l02Y_rms vs run
χ² / ndf 1.866e+04 / 52
p0 0.007055 ± 7.028e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

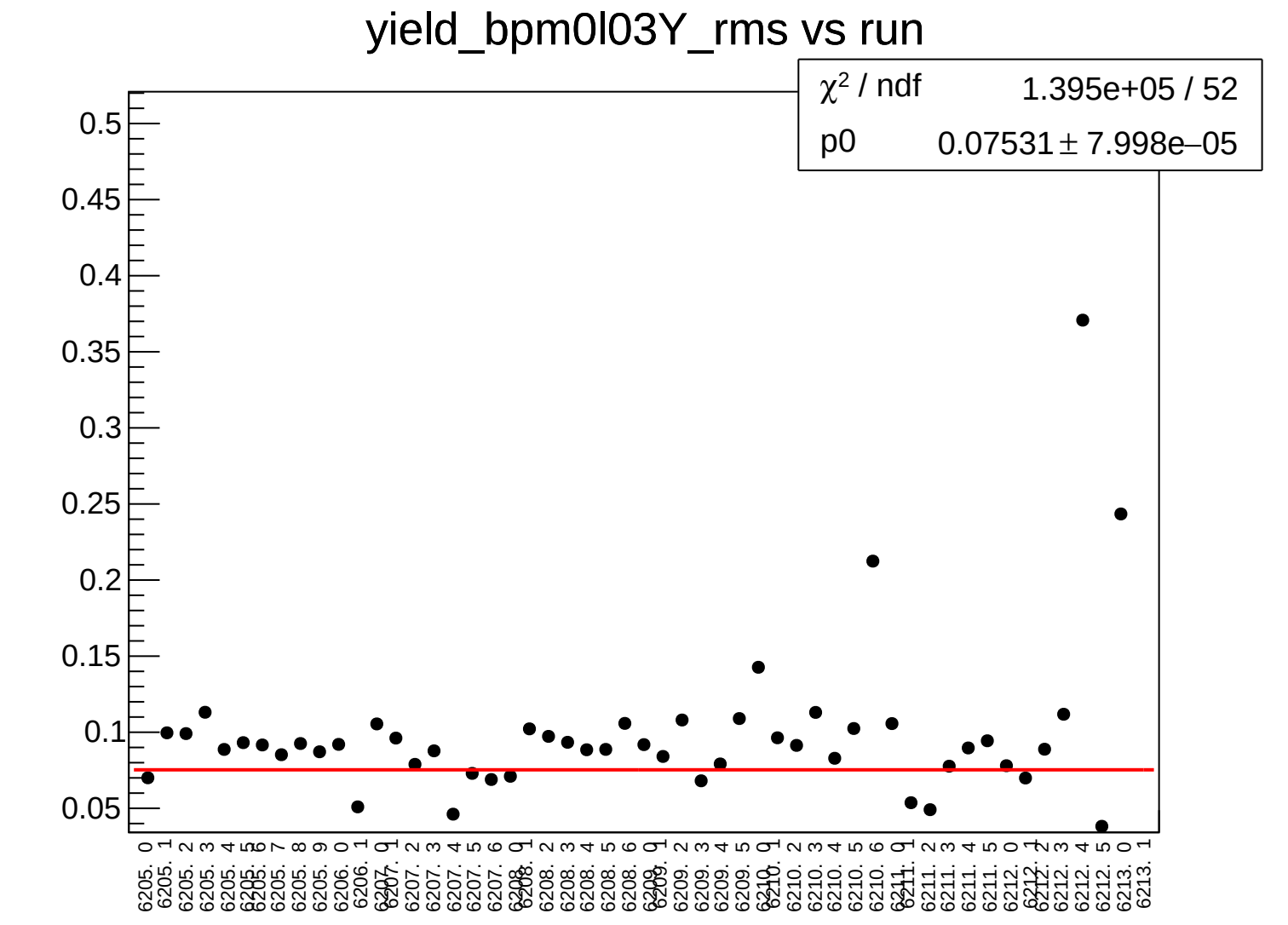

yield_bpm0l03X_mean vs run
χ² / ndf 2.434e+04 / 52
p0 −3.036 ± 0.0001118
−2.85
−2.9
−2.95
−3
−3.05
pull
Entries 53
Mean 98.05
Std Dev 64.35
60
40
20
0
−20
−40

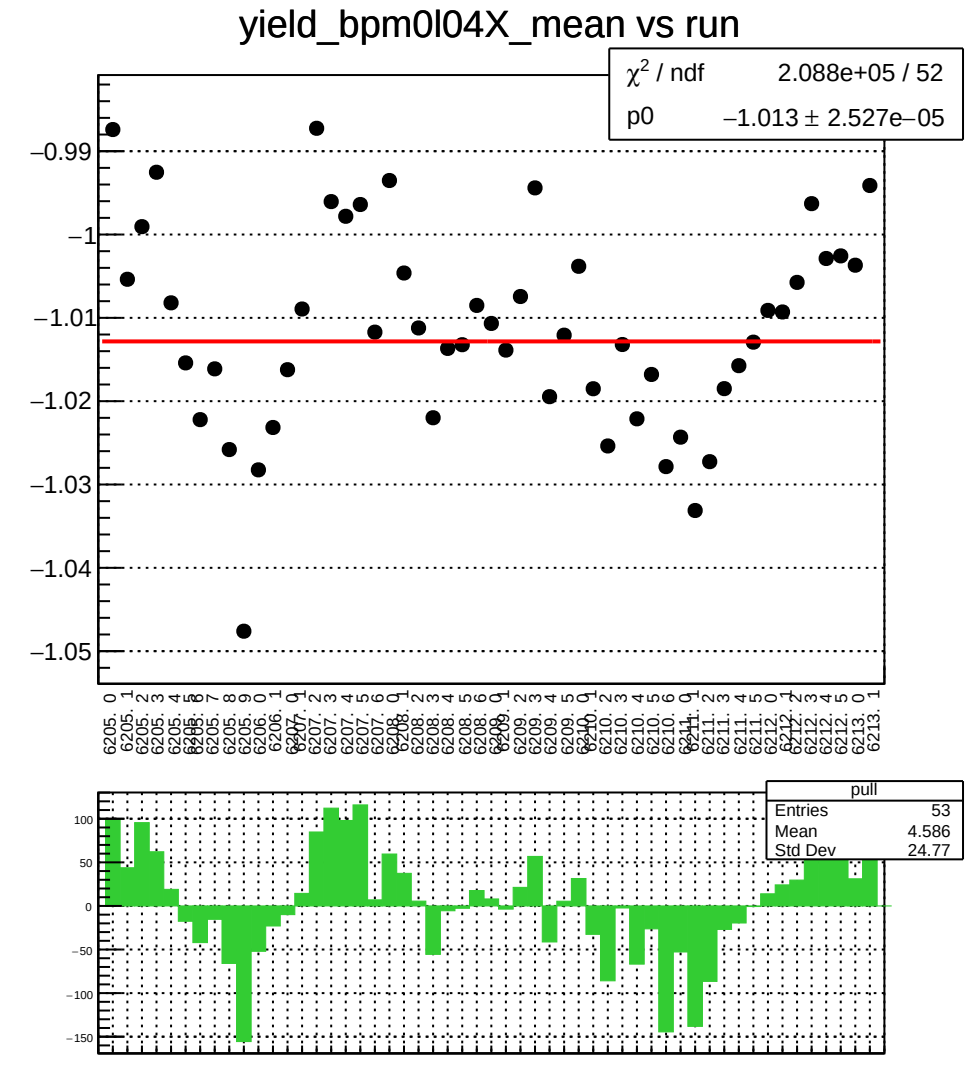

pull1D
Entries 53
Mean −2.498
Std Dev 3.94
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

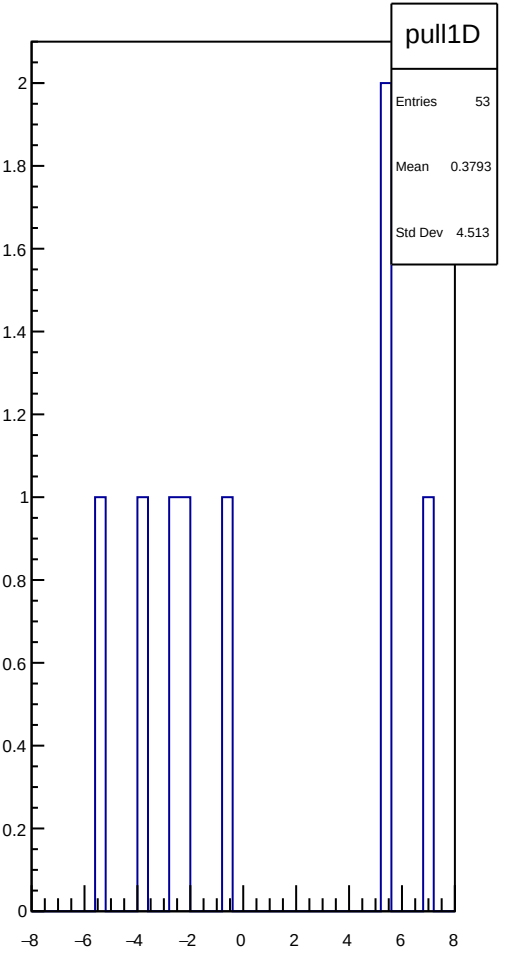

yield_bpm0l03X_rms vs run
χ² / ndf 1.436e+05 / 52
p0 0.0743 ± 7.908e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

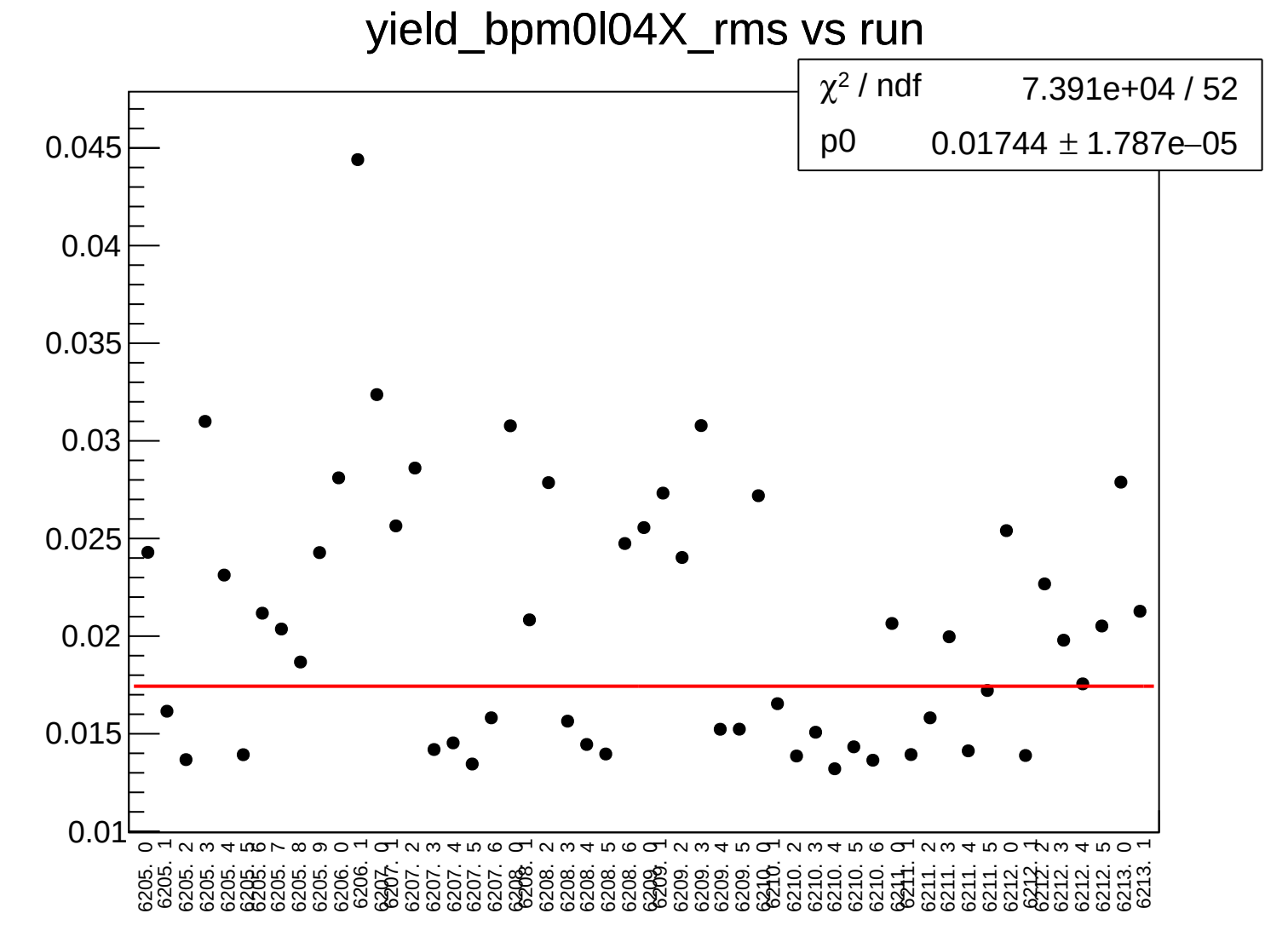

yield_bpm0l03Y_mean vs run
χ² / ndf 2.674e+04 / 52
p0 2.021± 0.0001131
2.2
2.15
2.1
2.05
2
pull
Entries 53
Mean 604.9
Std Dev 575.8
60
40
20
0
−20
−40

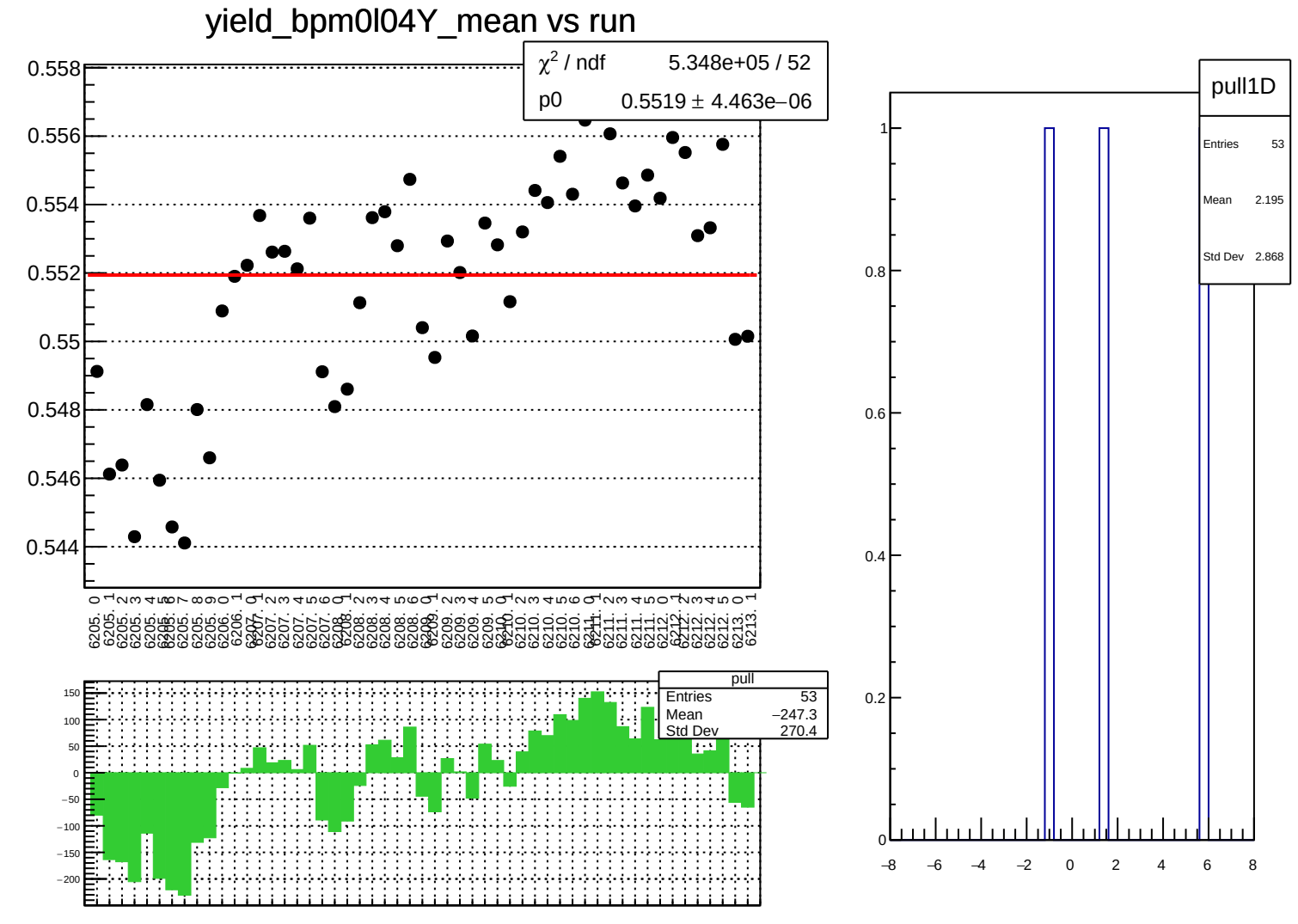

pull1D
Entries 53
Mean 0.4287
Std Dev 4.985
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

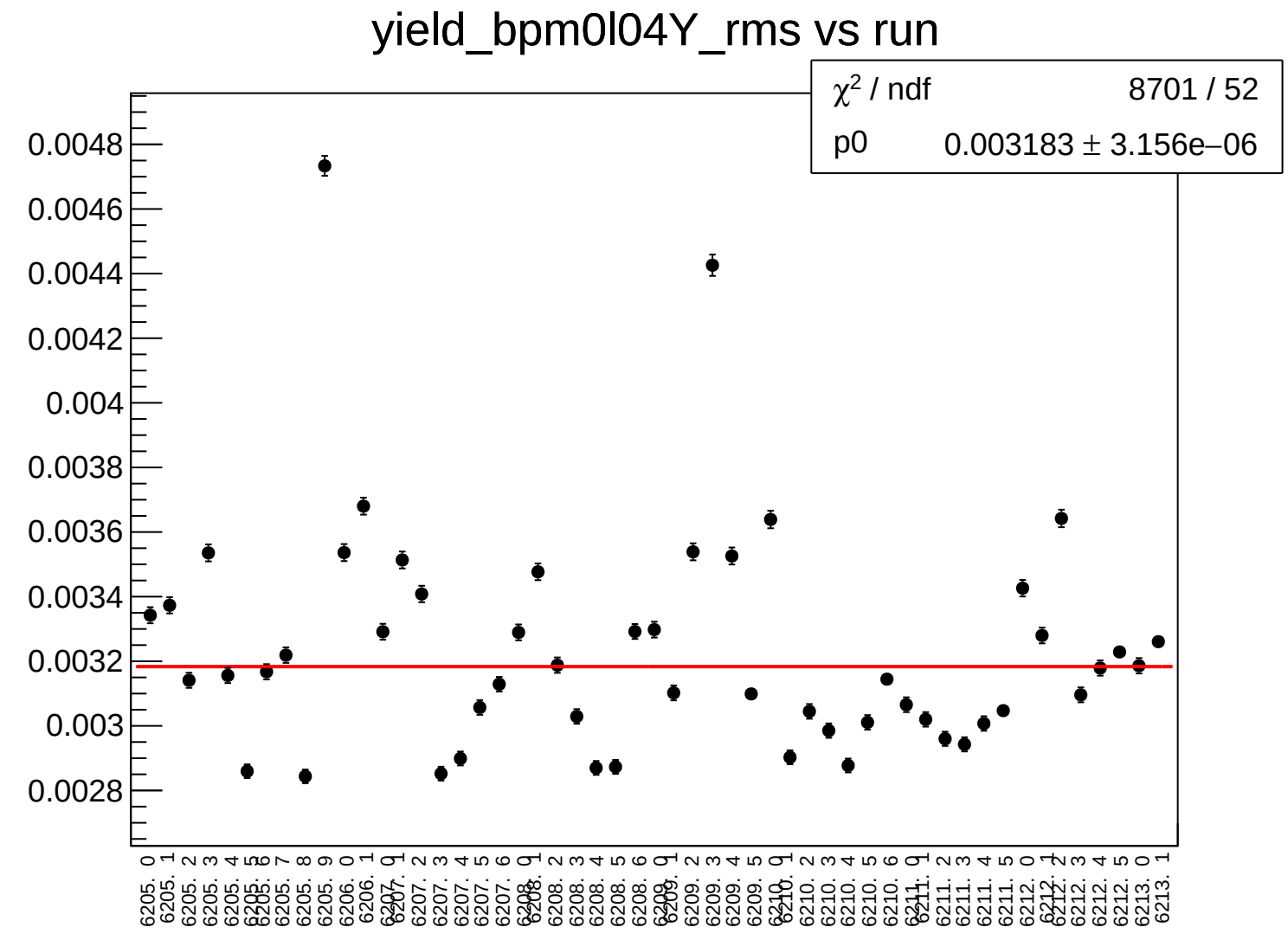

yield_bpm0l03Y_rms vs run
χ² / ndf 1.395e+05 / 52
p0 0.07531 ± 7.998e–05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

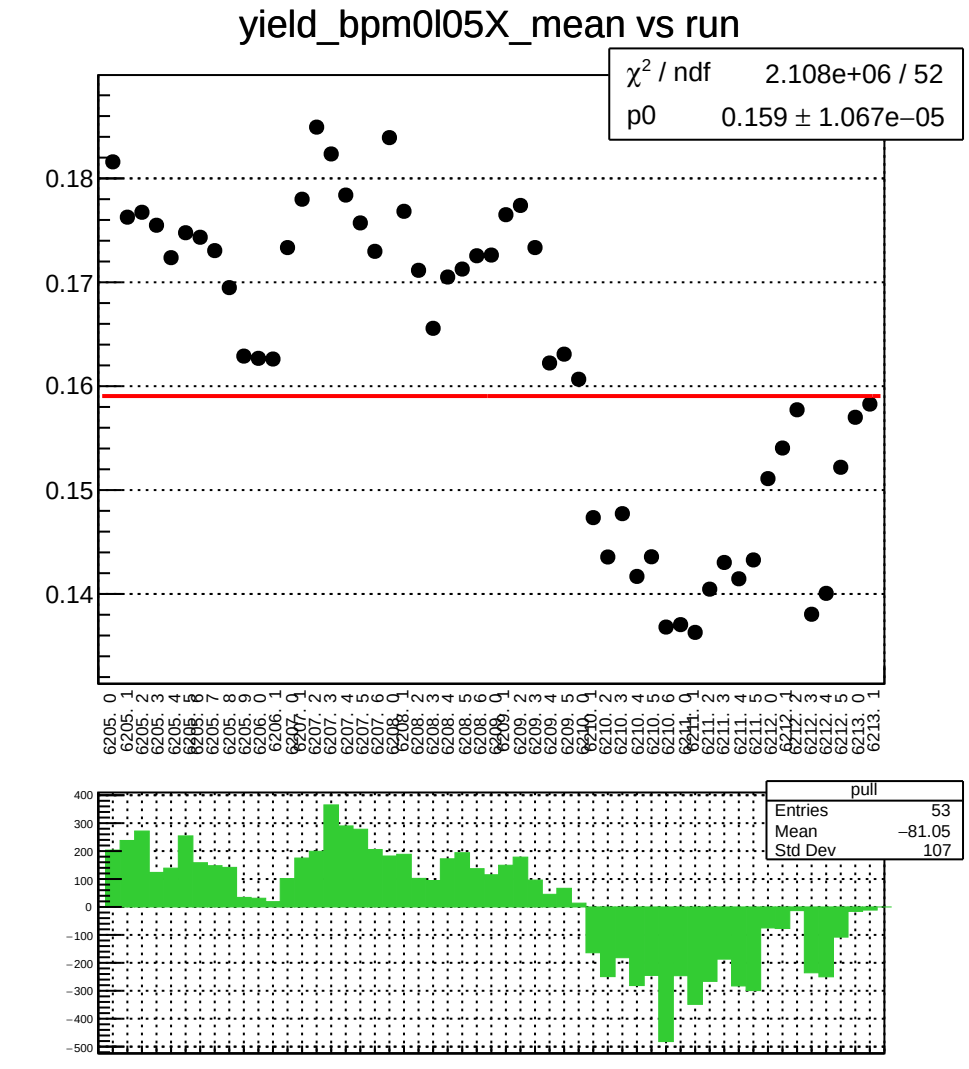

yield_bpm0l04X_mean vs run
χ² / ndf 2.088e+05 / 52
p0 −1.013 ± 2.527e−05
−0.99
−1
−1.01
−1.02
−1.03
−1.04
−1.05
pull
Entries 53
Mean 4.586
Std Dev 24.77
100
50
0
−50
−100
−150

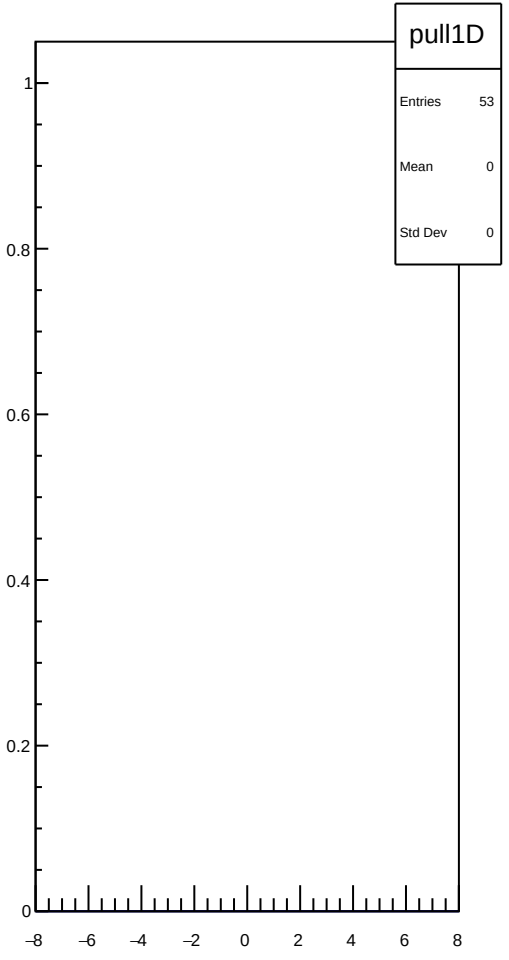

pull1D
Entries 53
Mean 0.3793
Std Dev 4.513
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

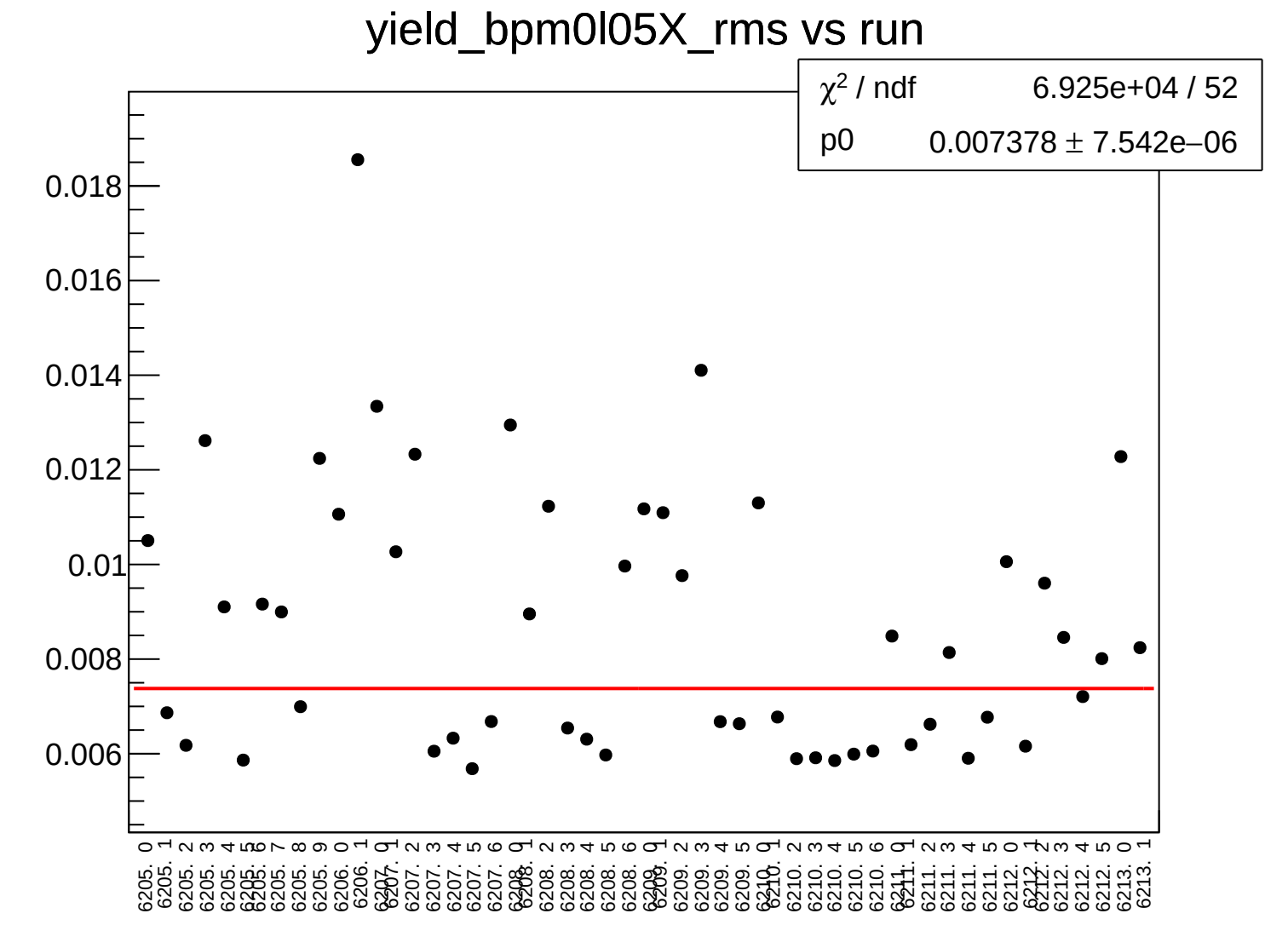

yield_bpm0l04X_rms vs run
χ² / ndf 7.391e+04 / 52
p0 0.01744 ± 1.787e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

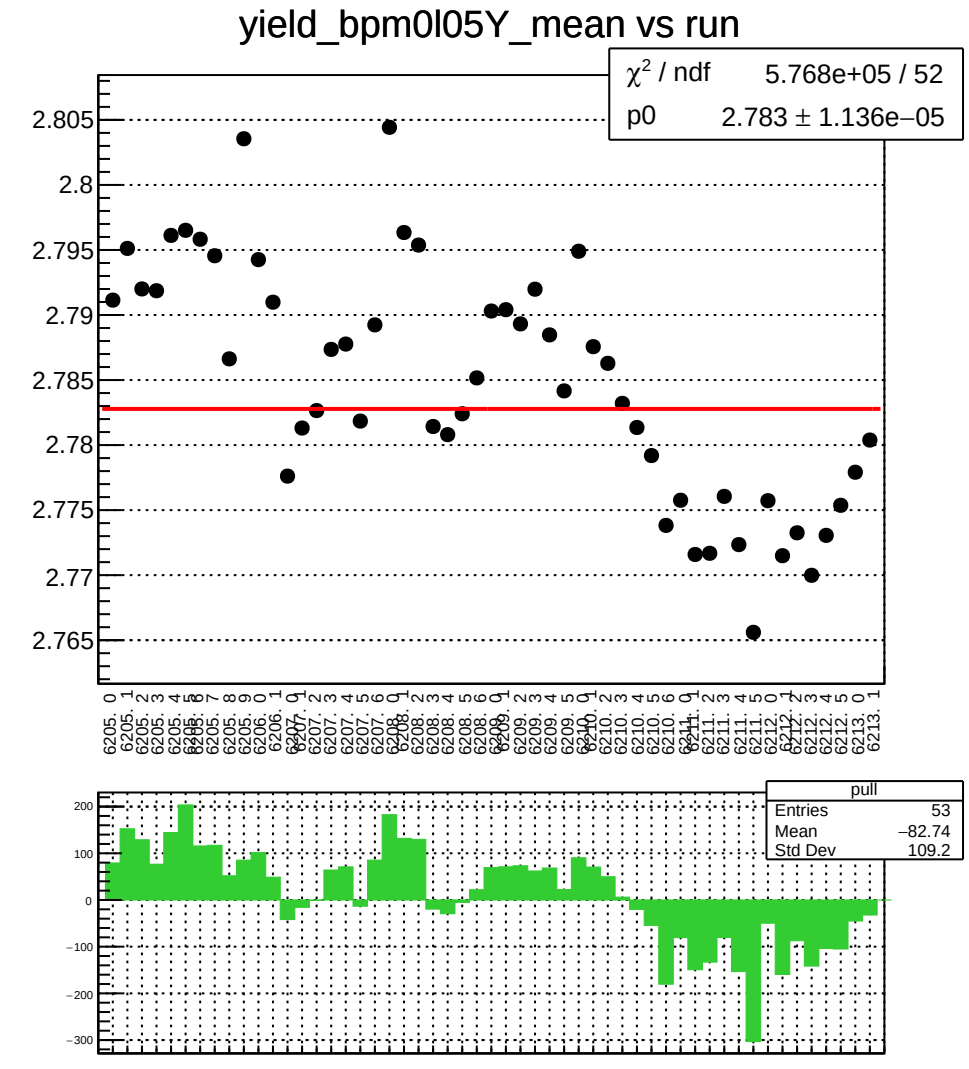

yield_bpm0l04Y_mean vs run
χ² / ndf 5.348e+05 / 52
p0 0.5519 ± 4.463e−06
0.558
0.556
0.554
0.552
0.55
0.548
0.546
0.544
pull
Entries 53
Mean −247.3
Std Dev 270.4
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 53
Mean 2.195
Std Dev 2.868
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

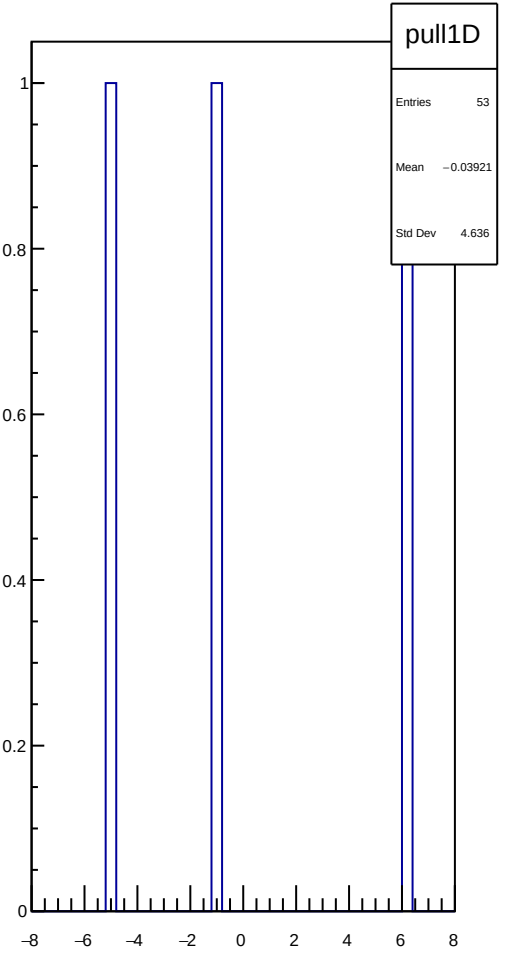

yield_bpm0l04Y_rms vs run
χ² / ndf 8701 / 52
p0 0.003183 ± 3.156e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

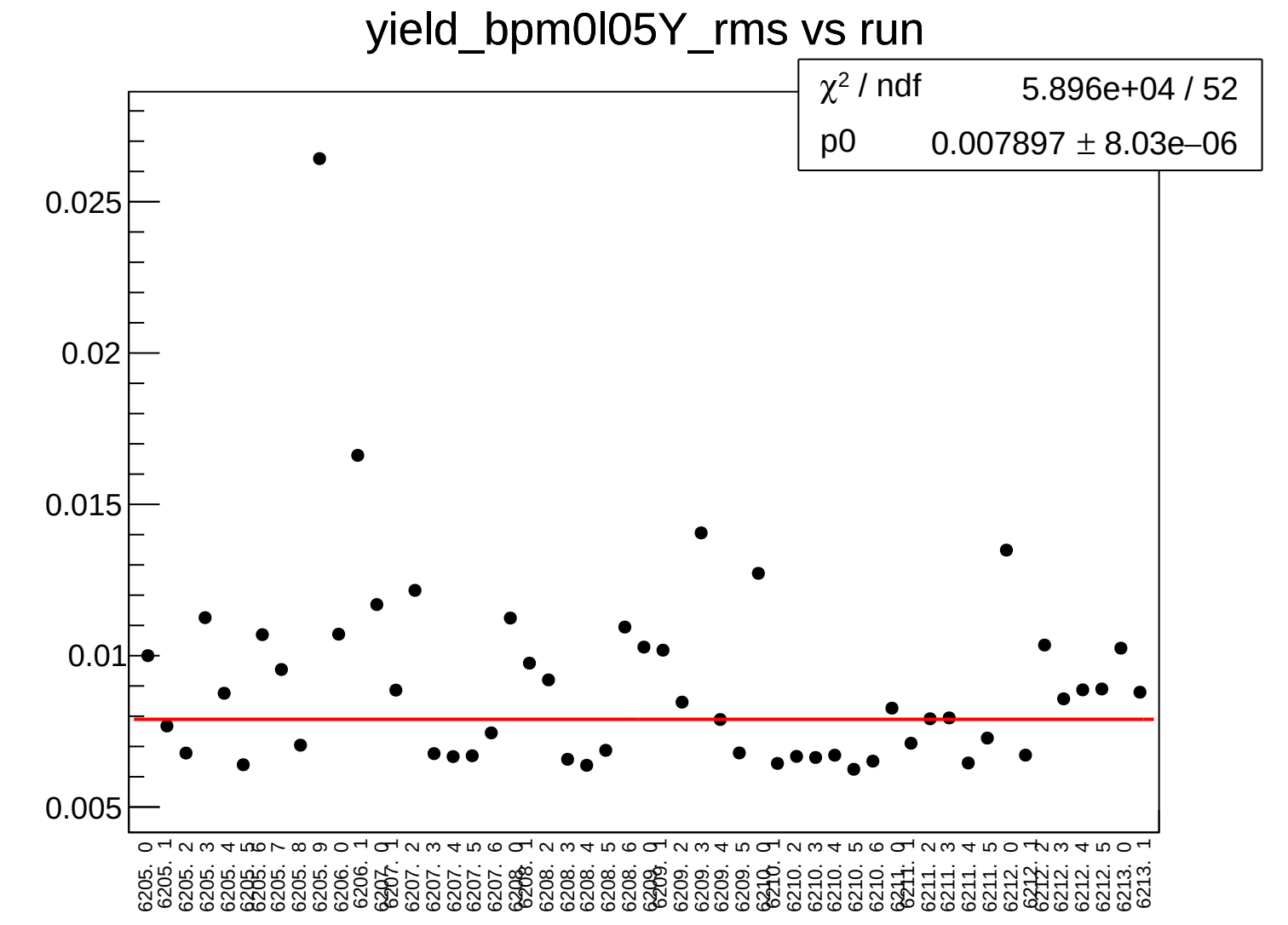

yield_bpm0l05X_mean vs run
χ² / ndf 2.108e+06 / 52
p0 0.159 ± 1.067e−05
0.18
0.17
0.16
0.15
0.14
pull
Entries 53
Mean −81.05
Std Dev 107
400
300
200
100
0
−100
−200
−300
−400
−500

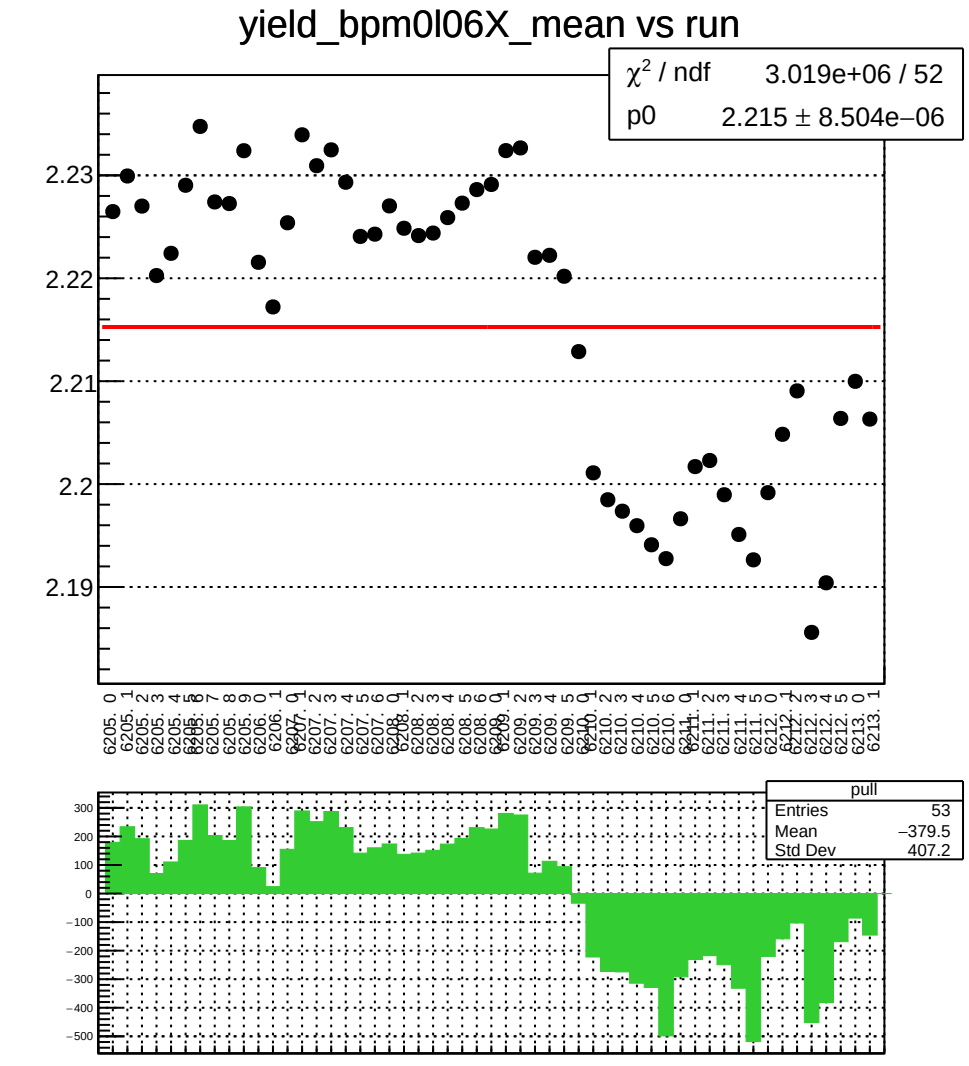

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

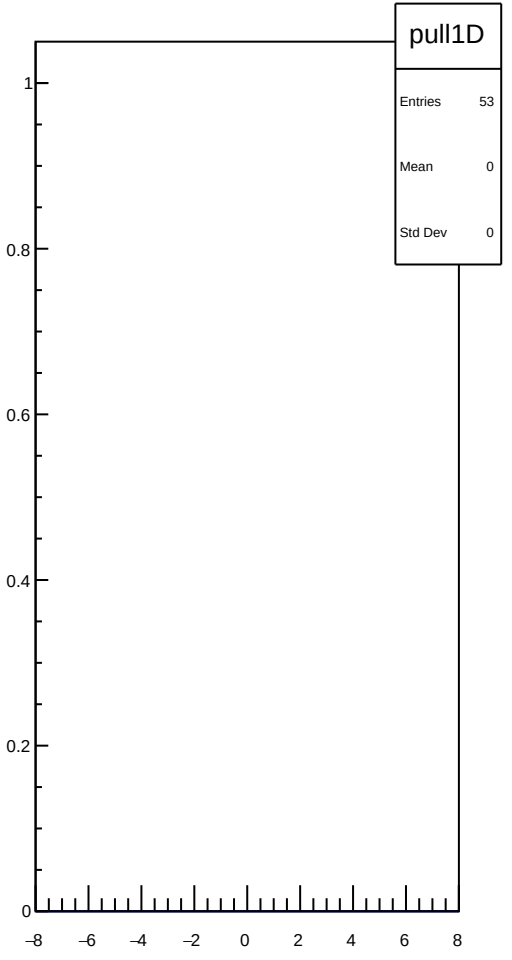

yield_bpm0l05X_rms vs run
χ² / ndf 6.925e+04 / 52
p0 0.007378 ± 7.542e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

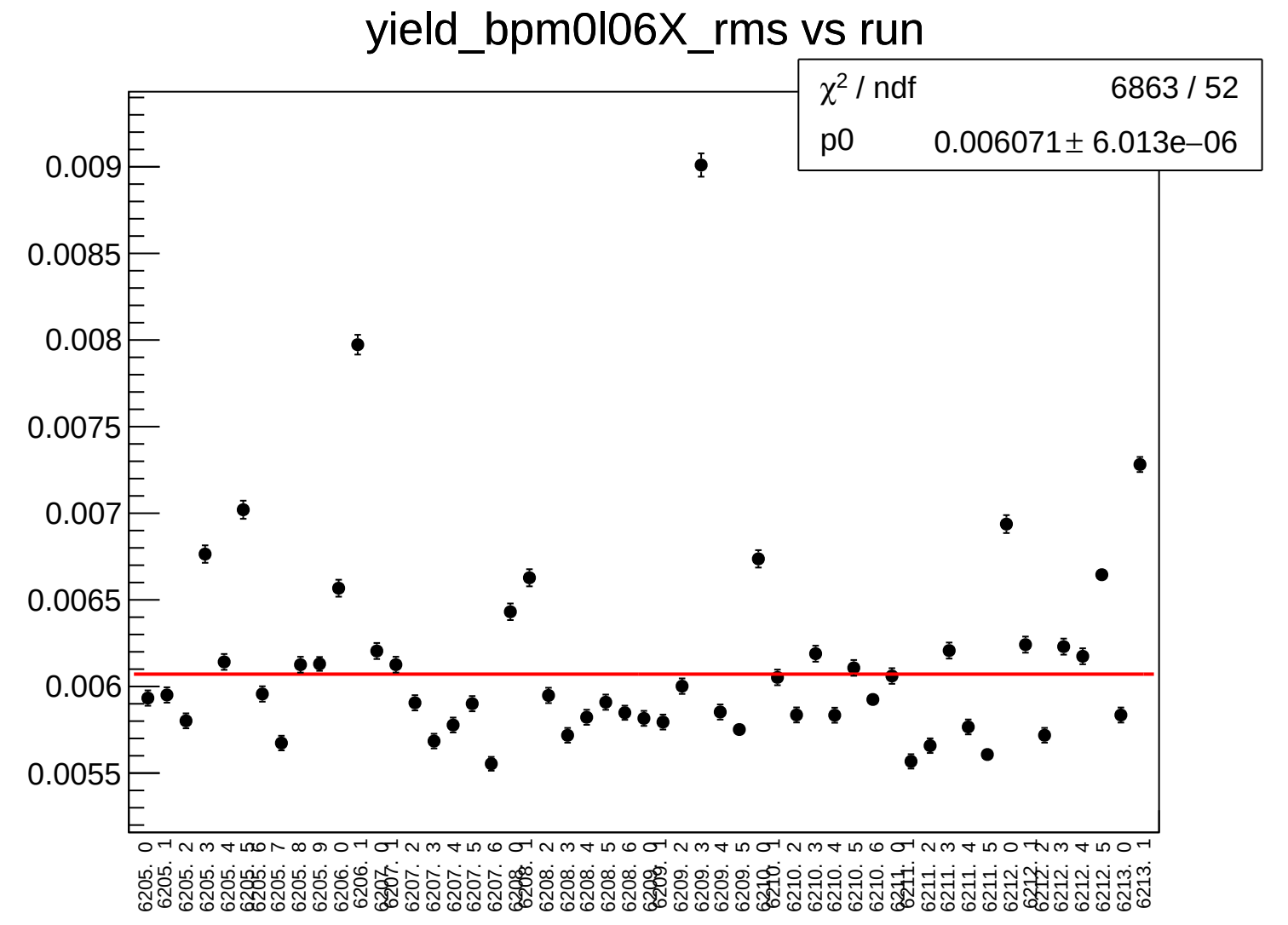

yield_bpm0l05Y_mean vs run
χ² / ndf 5.768e+05 / 52
p0 2.783 ± 1.136e−05
2.805
2.8
2.795
2.79
2.785
2.78
2.775
2.77
2.765
pull
Entries 53
Mean −82.74
Std Dev 109.2
200
100
0
−100
−200
−300

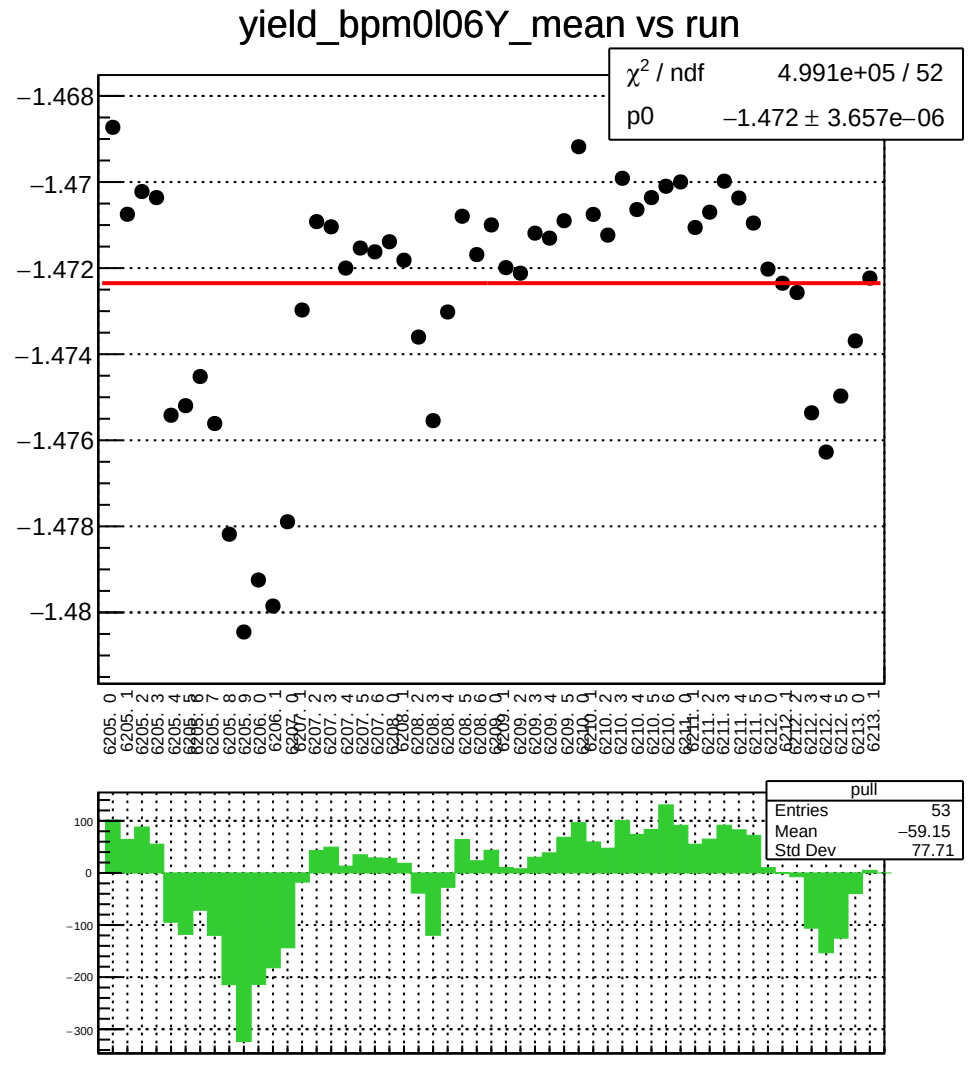

pull1D
Entries 53
Mean −0.03921
Std Dev 4.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

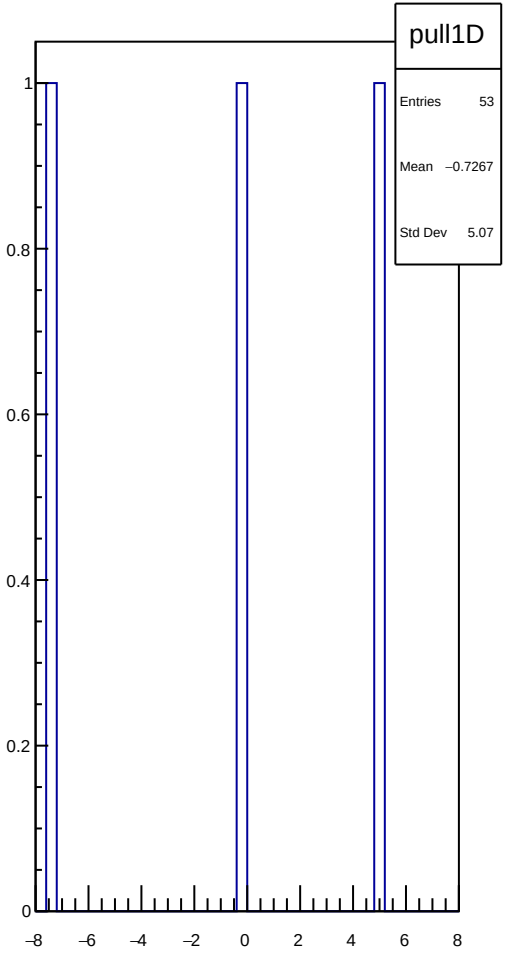

yield_bpm0l05Y_rms vs run
χ² / ndf 5.896e+04 / 52
p0 0.007897 ± 8.03e–06
0.025
0.02
0.015
0.01
0.005
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6208. 9
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

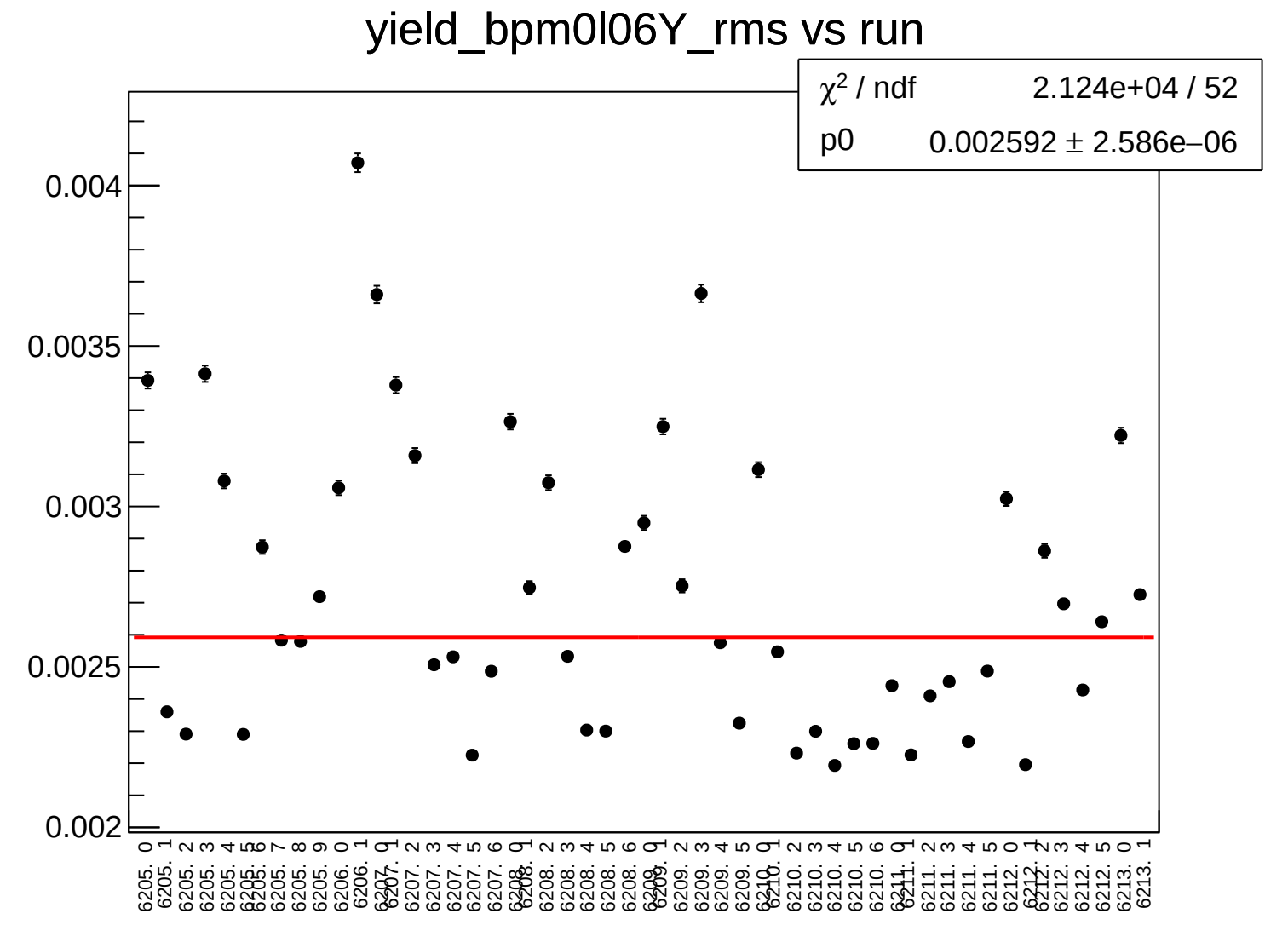

yield_bpm0l06X_mean vs run
χ² / ndf 3.019e+06 / 52
p0 2.215 ± 8.504e−06
2.23
2.22
2.21
2.2
2.19
pull
Entries 53
Mean −379.5
Std Dev 407.2
300
200
100
0
−100
−200
−300
−400
−500

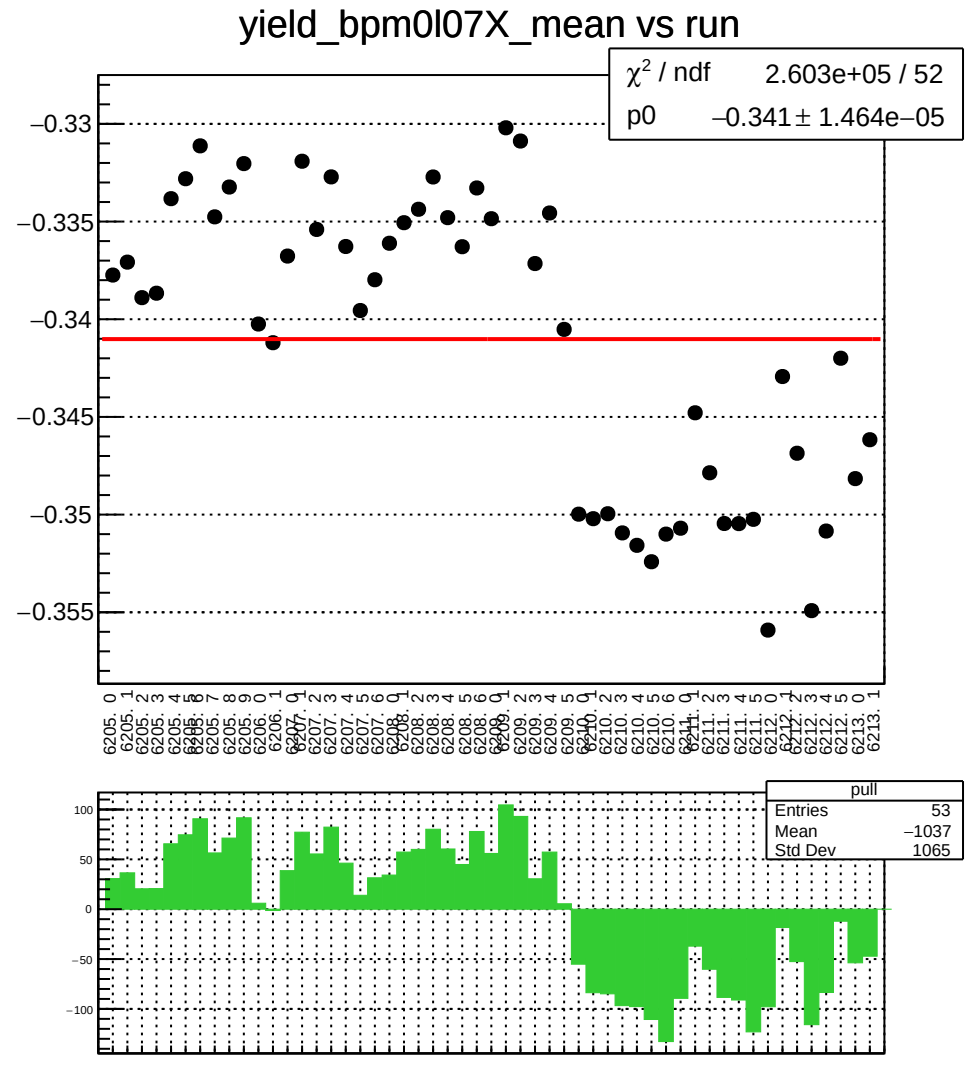

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

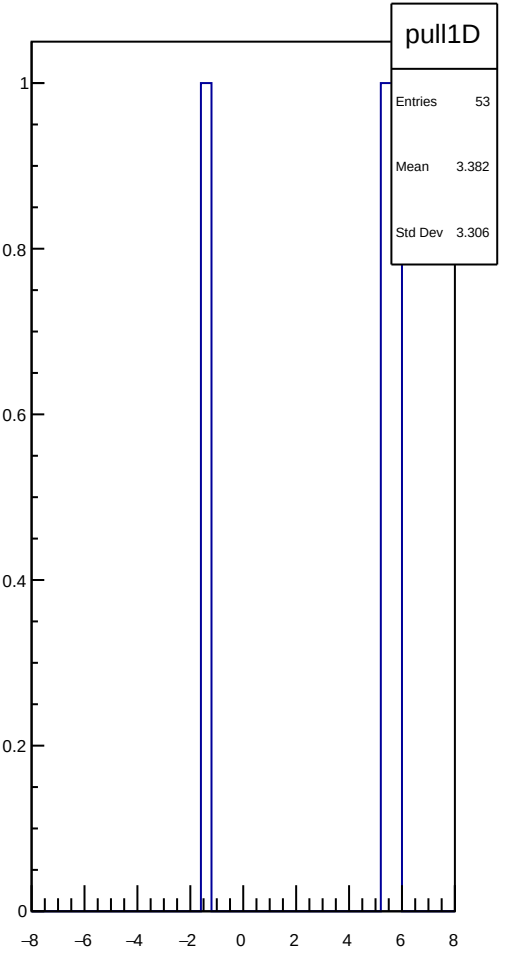

yield_bpm0l06X_rms vs run
χ² / ndf 6863 / 52
p0 0.006071 ± 6.013e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

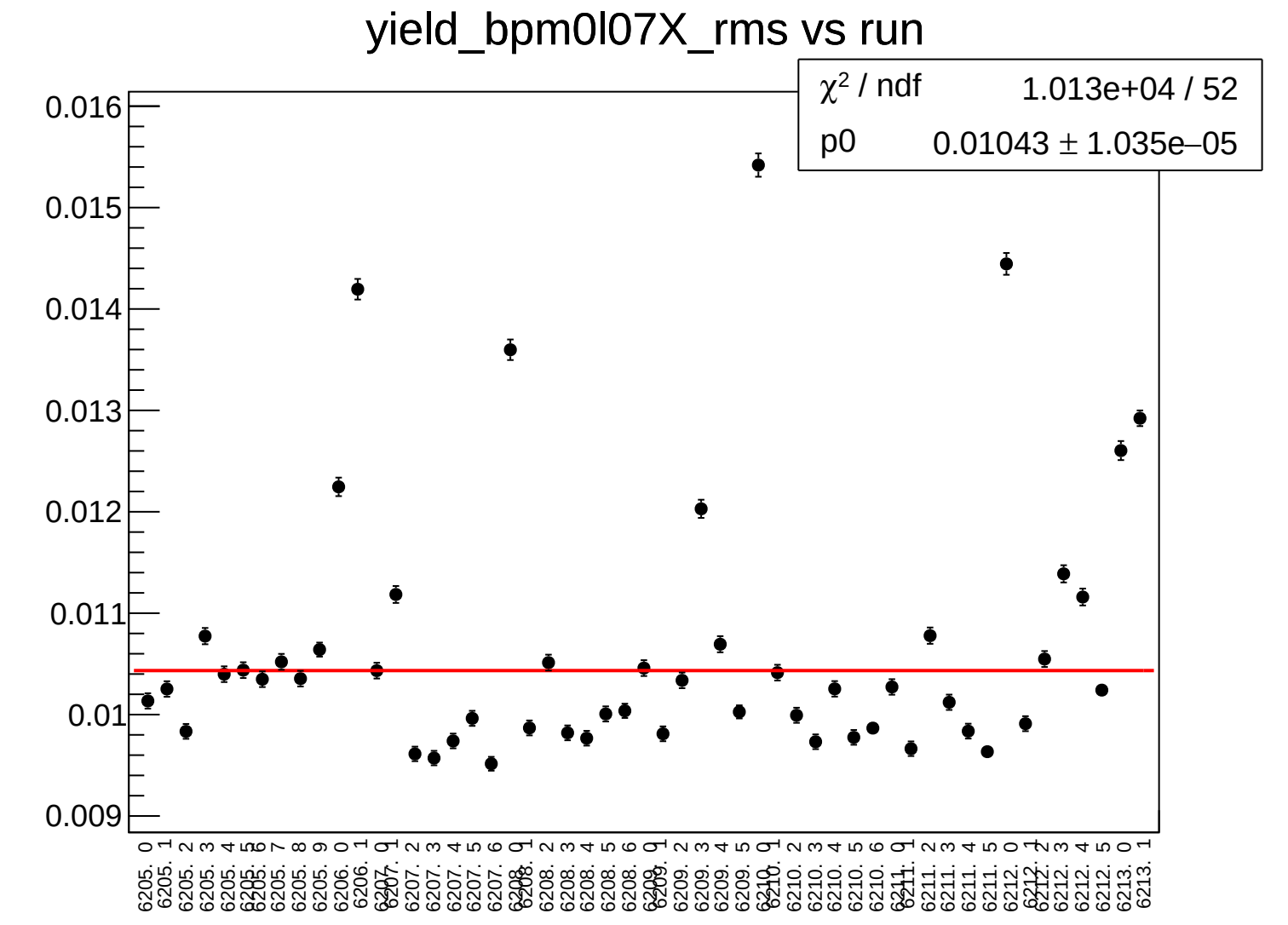

yield_bpm0l06Y_mean vs run
χ² / ndf 4.991e+05 / 52
p0 −1.472 ± 3.657e−06
−1.468
−1.47
−1.472
−1.474
−1.476
−1.478
−1.48
pull
Entries 53
Mean −59.15
Std Dev 77.71
100
0
−100
−200
−300

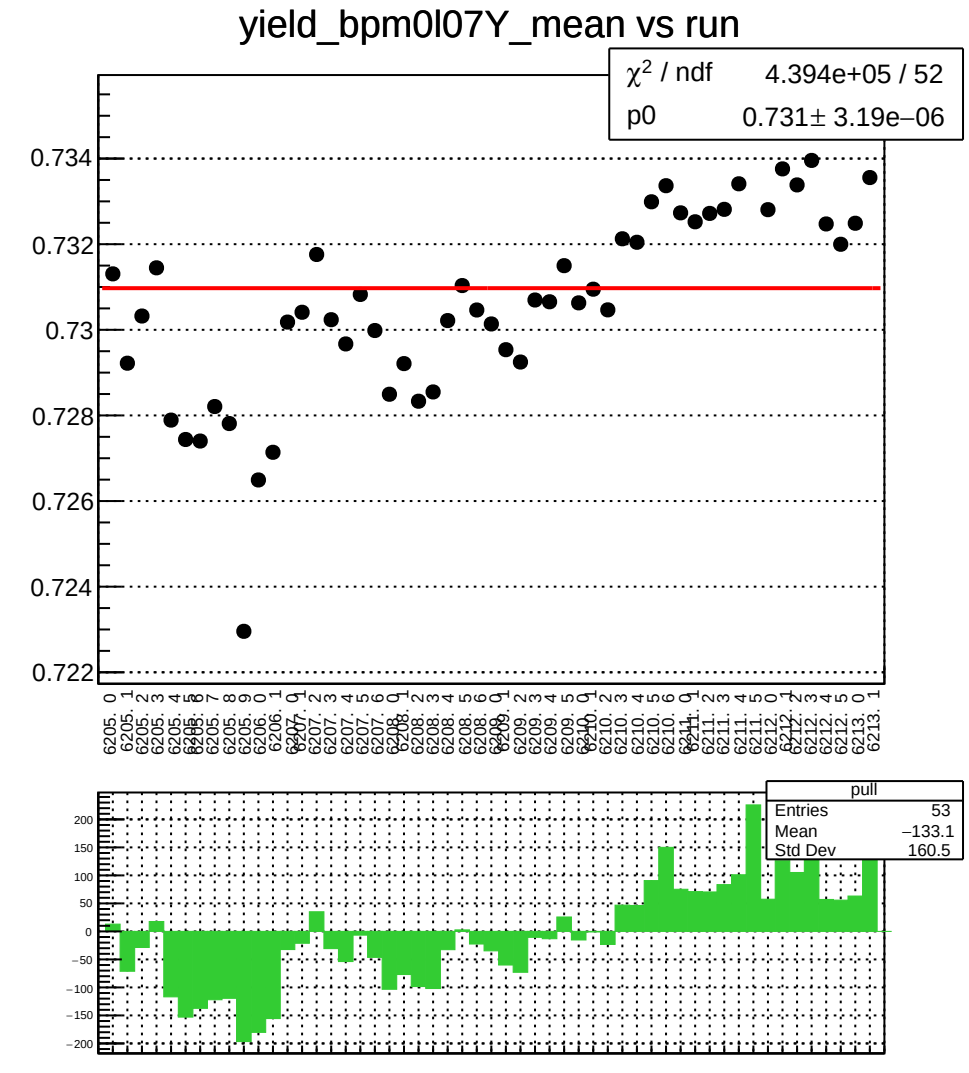

pull1D
Entries 53
Mean −0.7267
Std Dev 5.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

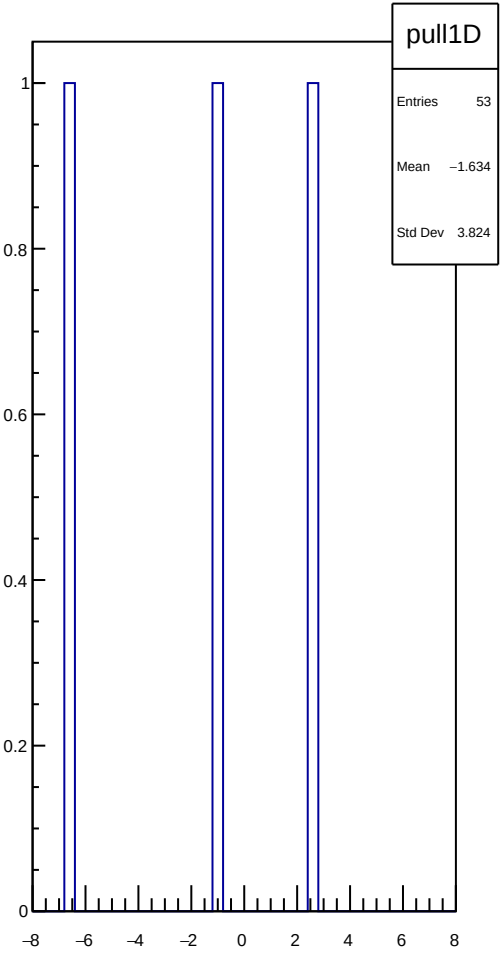

yield_bpm0l06Y_rms vs run
χ² / ndf 2.124e+04 / 52
p0 0.002592 ± 2.586e−06
0.004
0.0035
0.003
0.0025
0.002
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

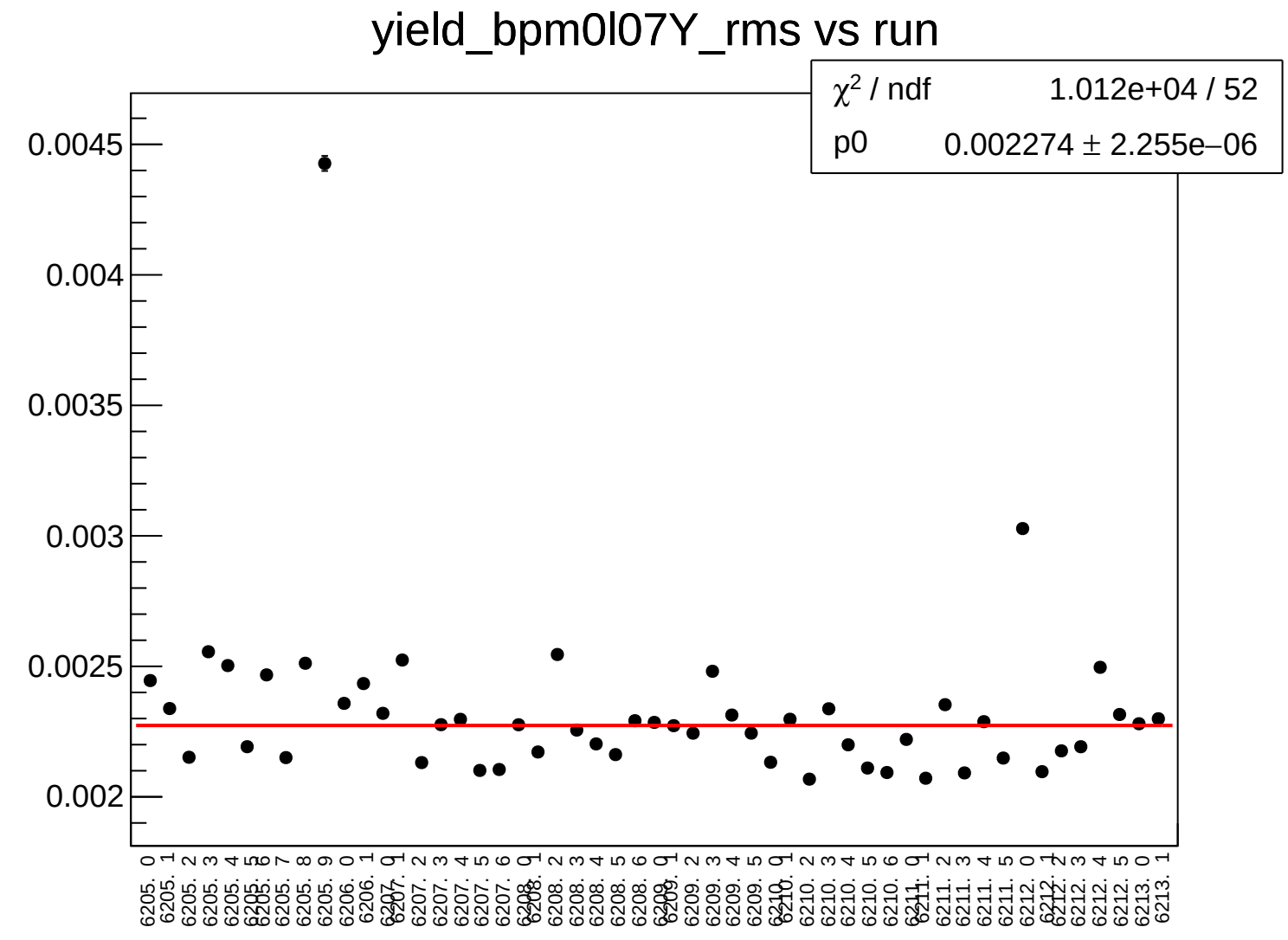

yield_bpm0l07X_mean vs run
χ² / ndf 2.603e+05 / 52
p0 −0.341 ± 1.464e−05
−0.33
−0.335
−0.34
−0.345
−0.35
−0.355
pull
Entries 53
Mean −1037
Std Dev 1065
100
50
0
−50
−100

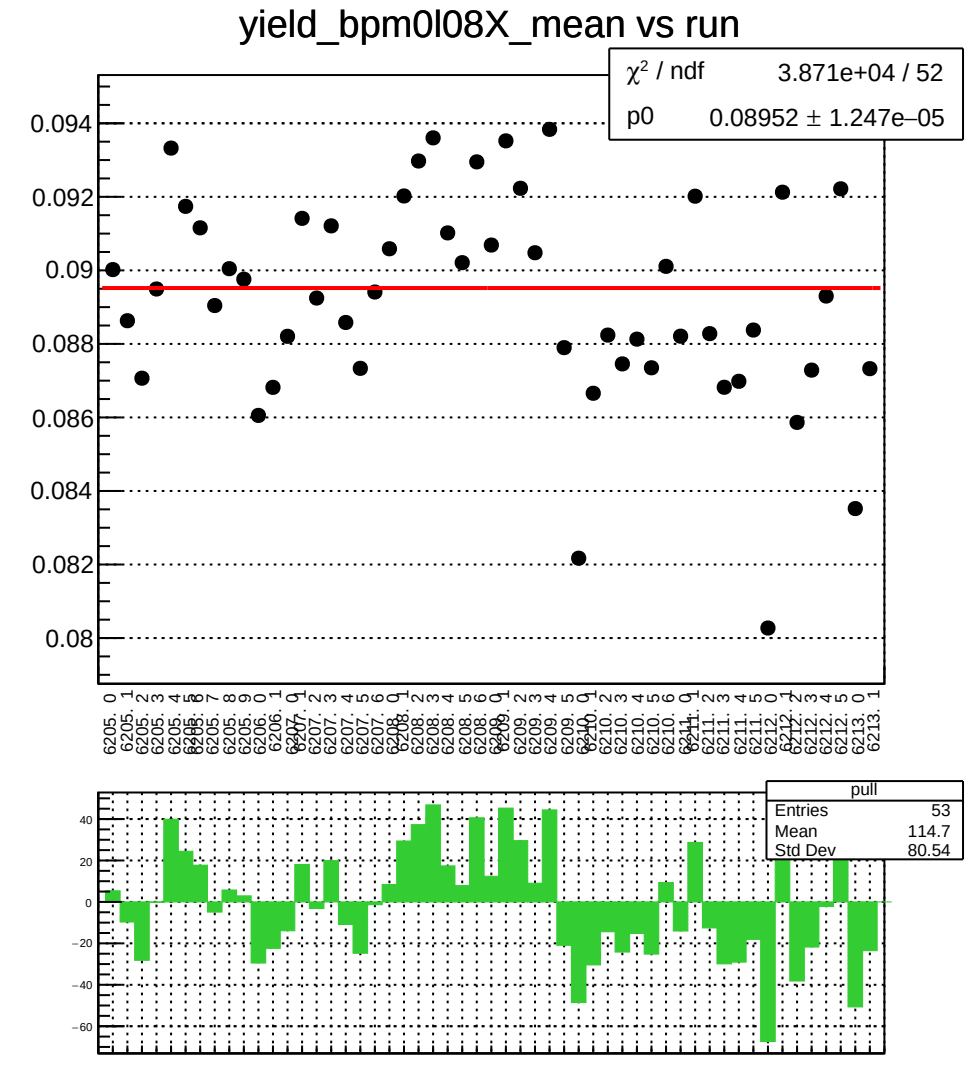

pull1D
Entries 53
Mean 3.382
Std Dev 3.306
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

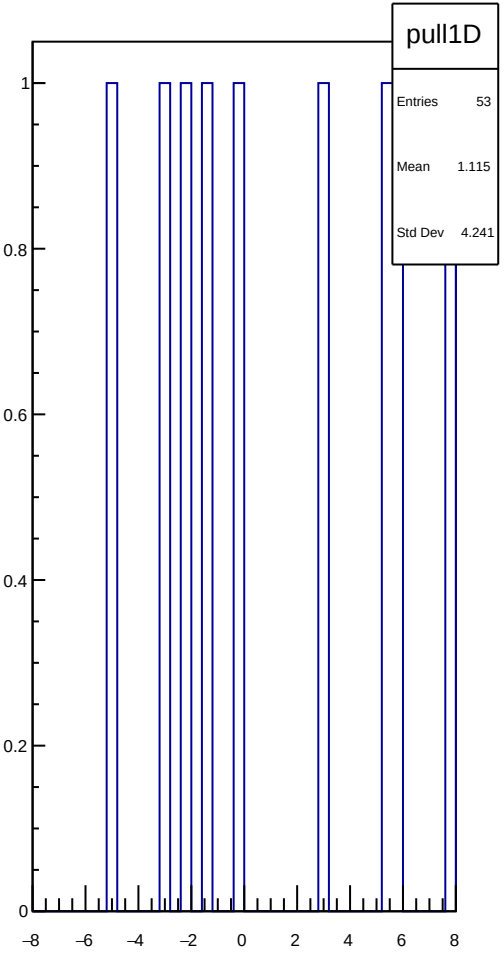

yield_bpm0l07X_rms vs run
χ² / ndf 1.013e+04 / 52
p0 0.01043 ± 1.035e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

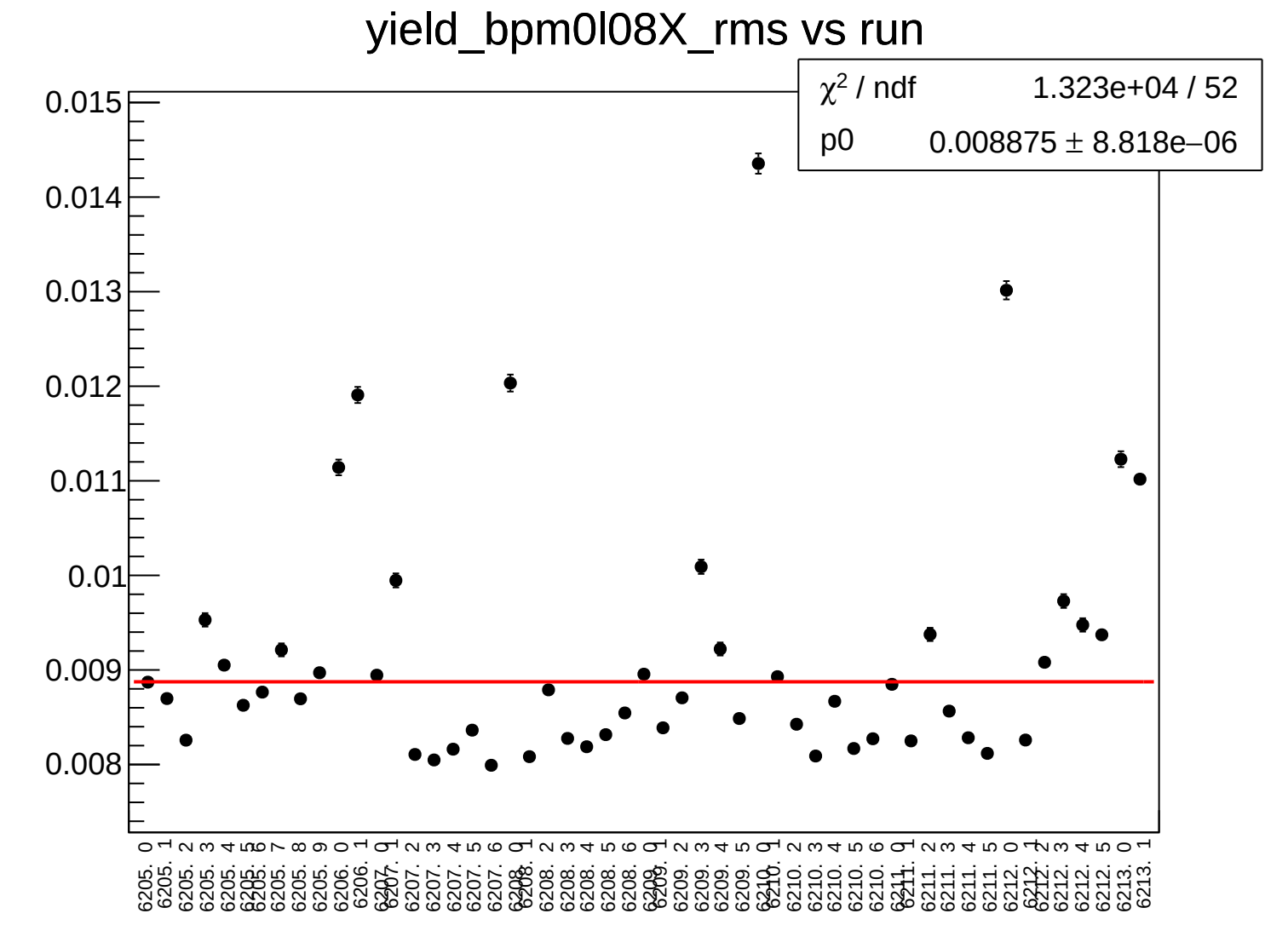

yield_bpm0l07Y_mean vs run
χ² / ndf 4.394e+05 / 52
p0 0.731± 3.19e−06
0.734
0.732
0.73
0.728
0.726
0.724
0.722
pull
Entries 53
Mean −133.1
Std Dev 160.5
200
150
100
50
0
−50
−100
−150
−200

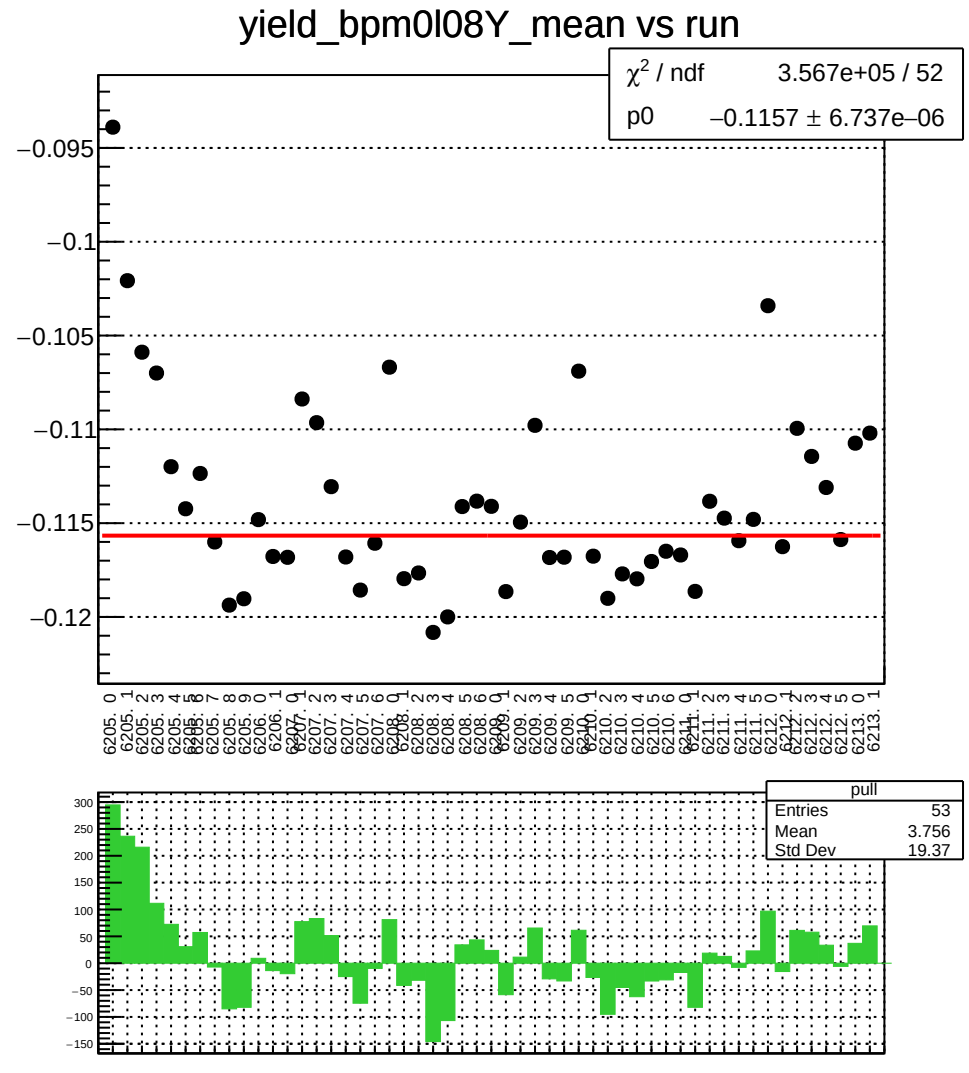

pull1D
Entries 53
Mean −1.634
Std Dev 3.824
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

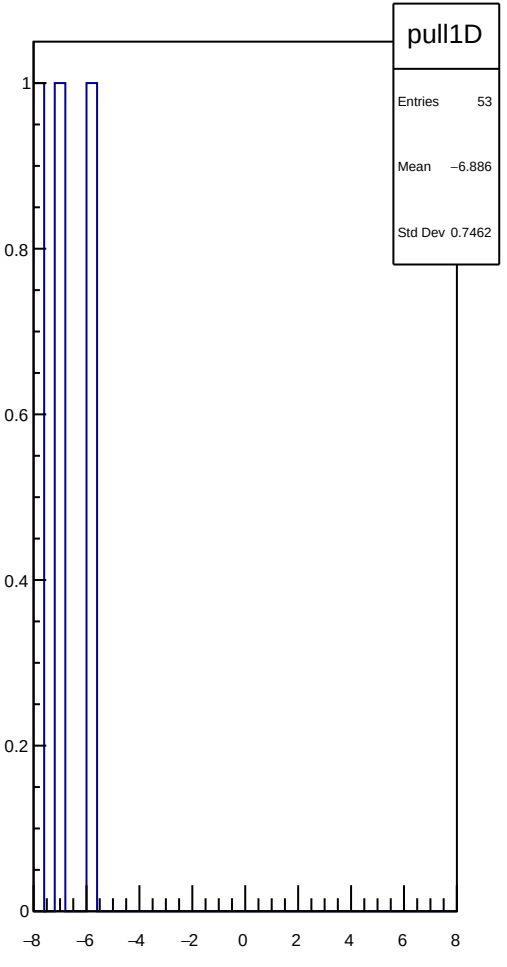

yield_bpm0l07Y_rms vs run
χ² / ndf 1.012e+04 / 52
p0 0.002274 ± 2.255e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

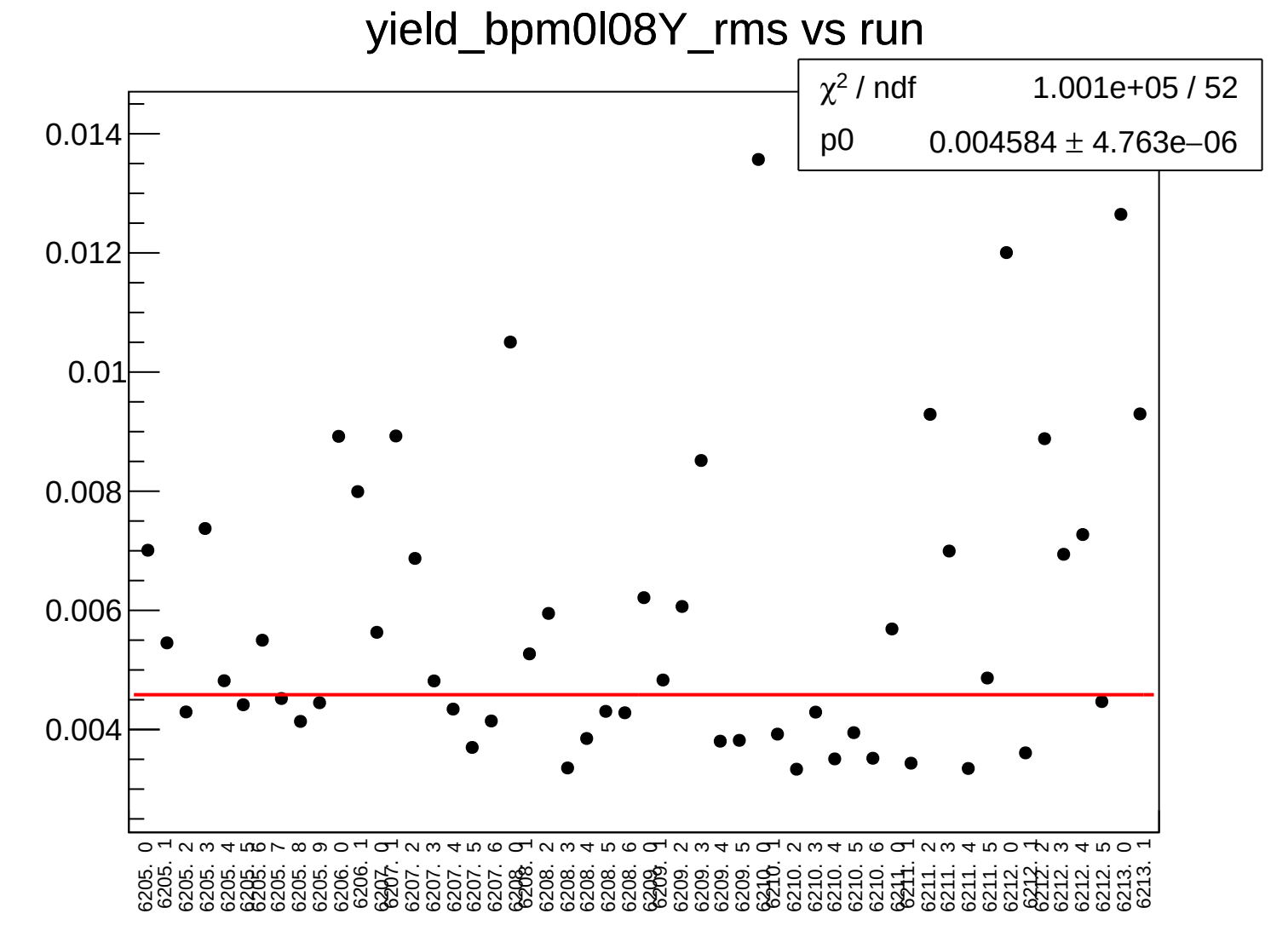

yield_bpm0l08X_mean vs run
χ² / ndf 3.871e+04 / 52
p0 0.08952 ± 1.247e−05
0.094
0.092
0.09
0.088
0.086
0.084
0.082
0.08
pull
Entries 53
Mean 114.7
Std Dev 80.54
40
20
0
−20
−40
−60

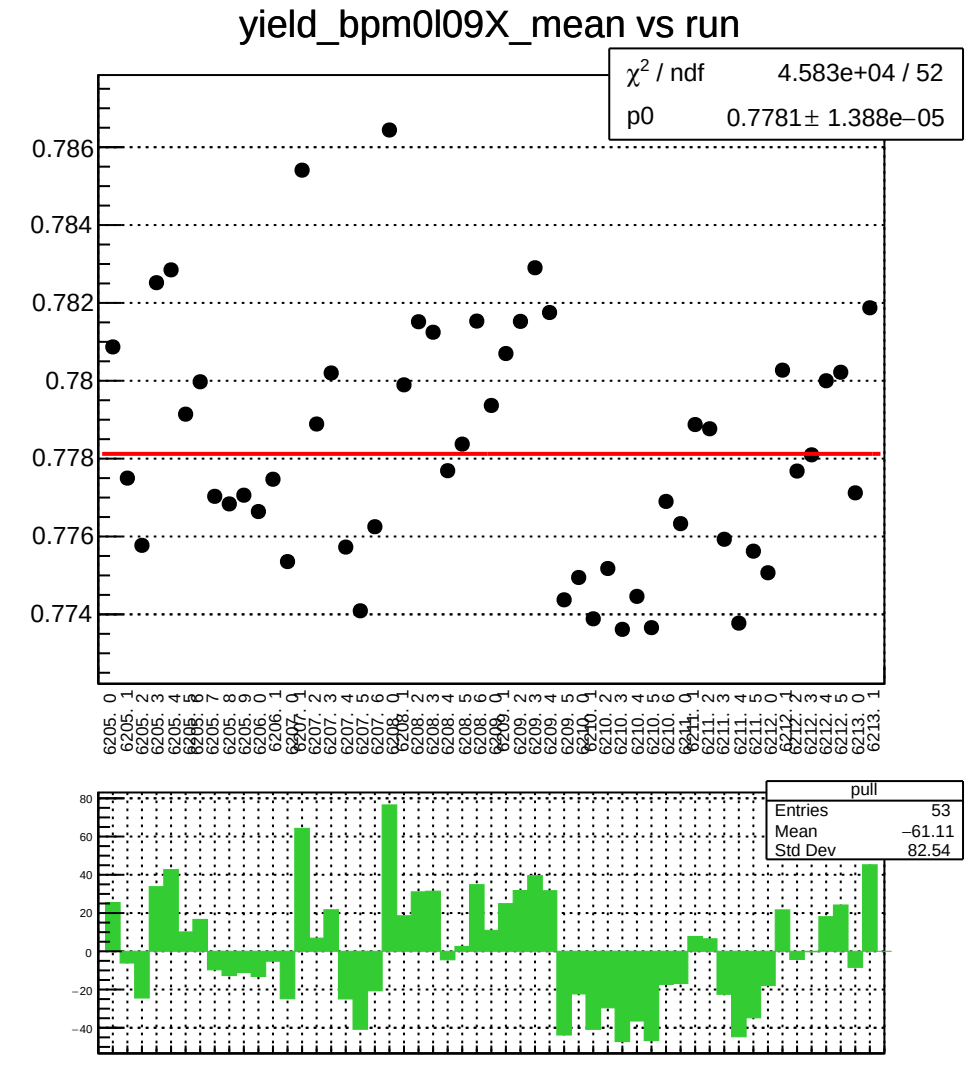

pull1D
Entries 53
Mean 1.115
Std Dev 4.241
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

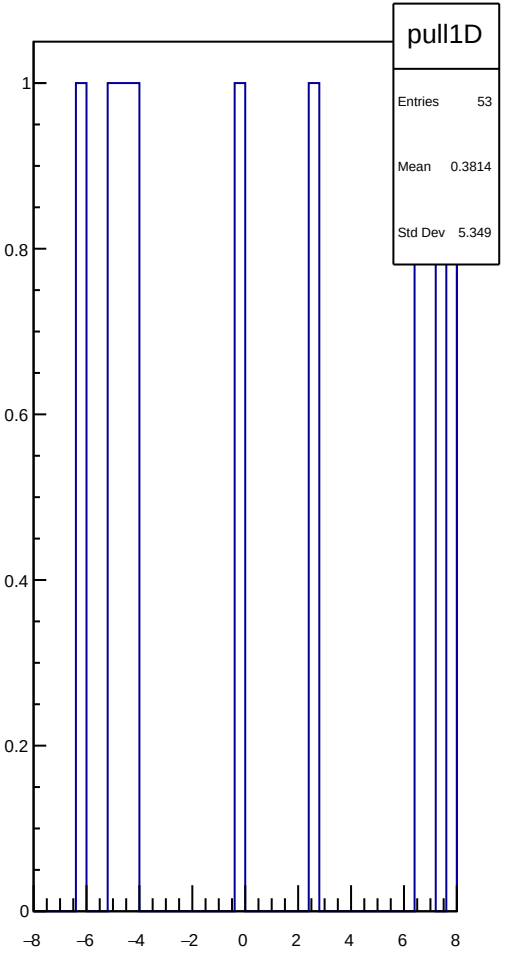

yield_bpm0l08X_rms vs run
χ² / ndf 1.323e+04 / 52
p0 0.008875 ± 8.818e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

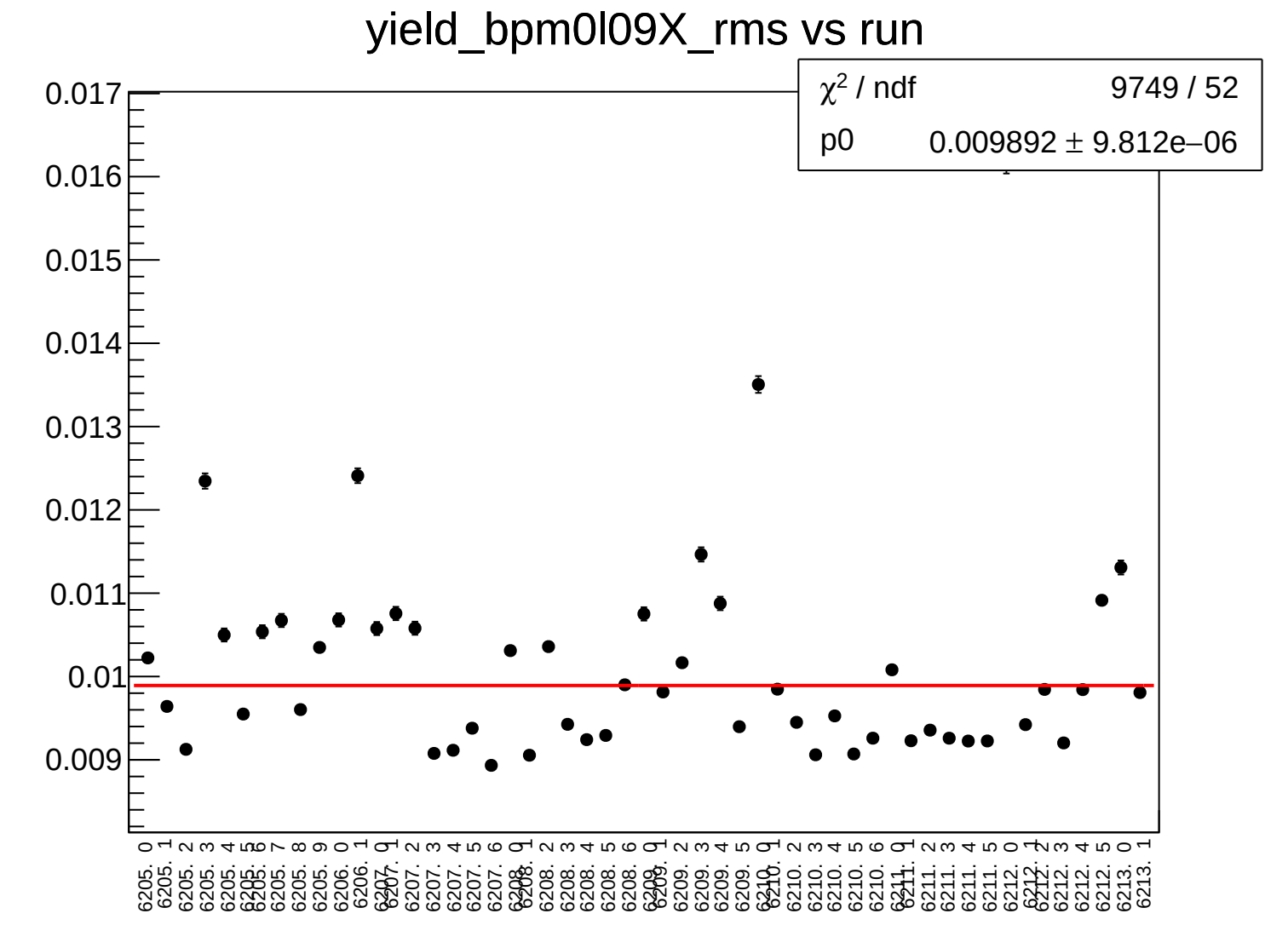

yield_bpm0l08Y_mean vs run
χ² / ndf 3.567e+05 / 52
p0 −0.1157 ± 6.737e−06
−0.095
−0.1
−0.105
−0.11
−0.115
−0.12
pull
Entries 53
Mean 3.756
Std Dev 19.37
300
250
200
150
100
50
0
−50
−100
−150

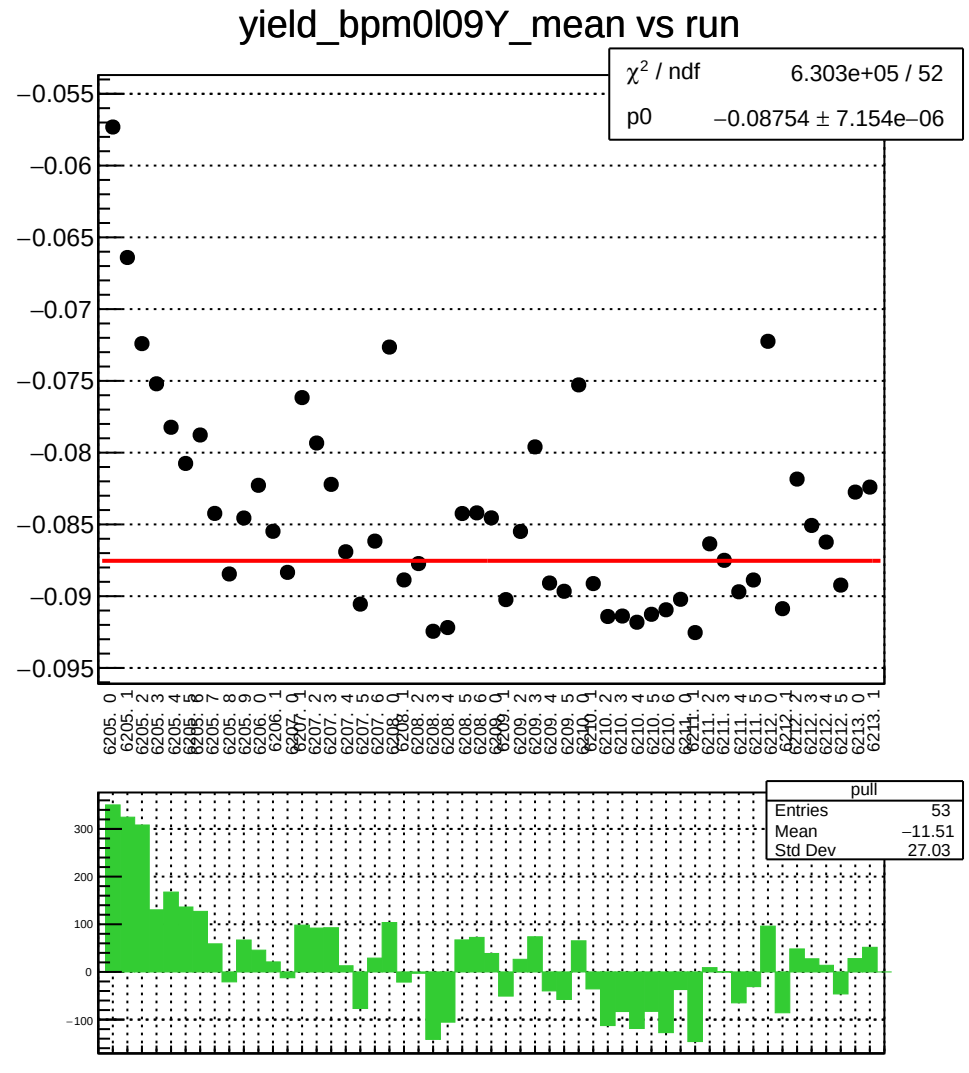

pull1D
Entries 53
Mean −6.886
Std Dev 0.7462
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

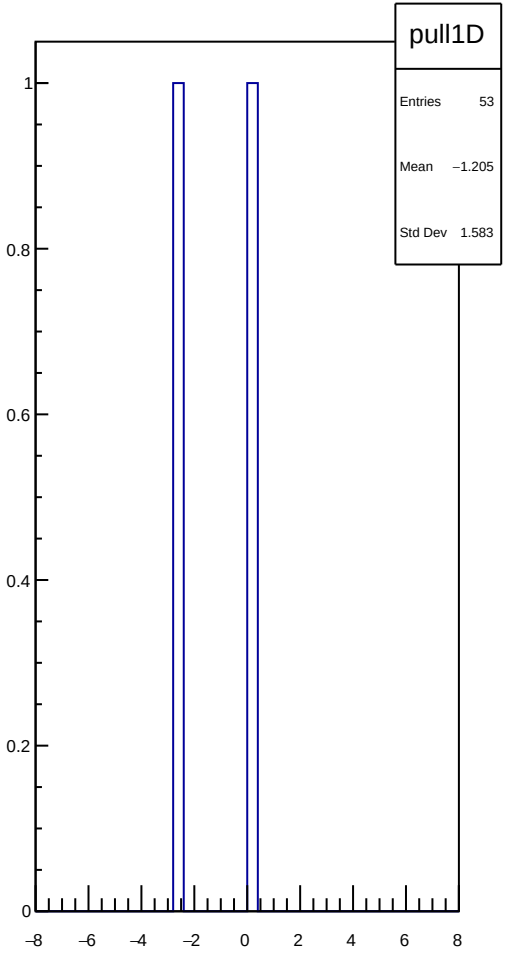

yield_bpm0l08Y_rms vs run
χ² / ndf 1.001e+05 / 52
p0 0.004584 ± 4.763e−06
0.014
0.012
0.01
0.008
0.006
0.004
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

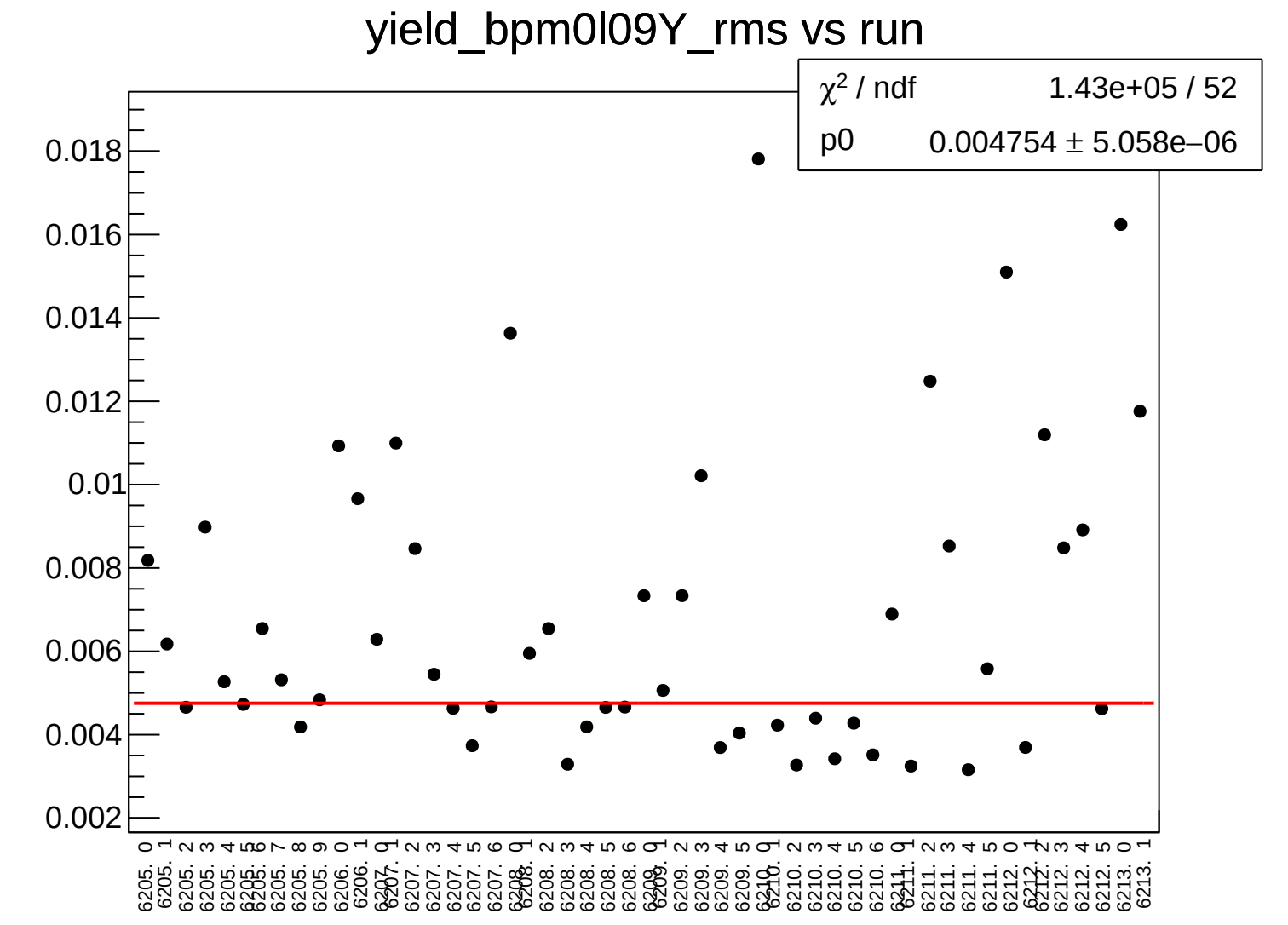

yield_bpm0l09X_mean vs run
χ² / ndf 4.583e+04 / 52
p0 0.7781 ± 1.388e−05
0.786
0.784
0.782
0.78
0.778
0.776
0.774
pull
Entries 53
Mean −61.11
Std Dev 82.54
80
60
40
20
0
−20
−40

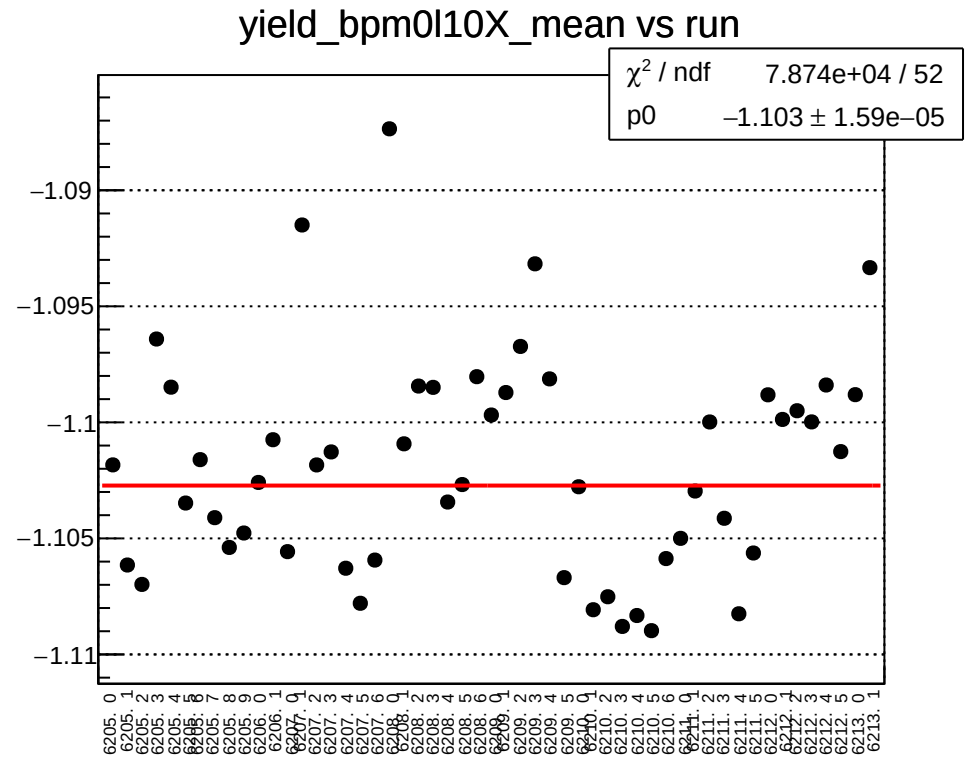

pull1D
Entries 53
Mean 0.3814
Std Dev 5.349
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

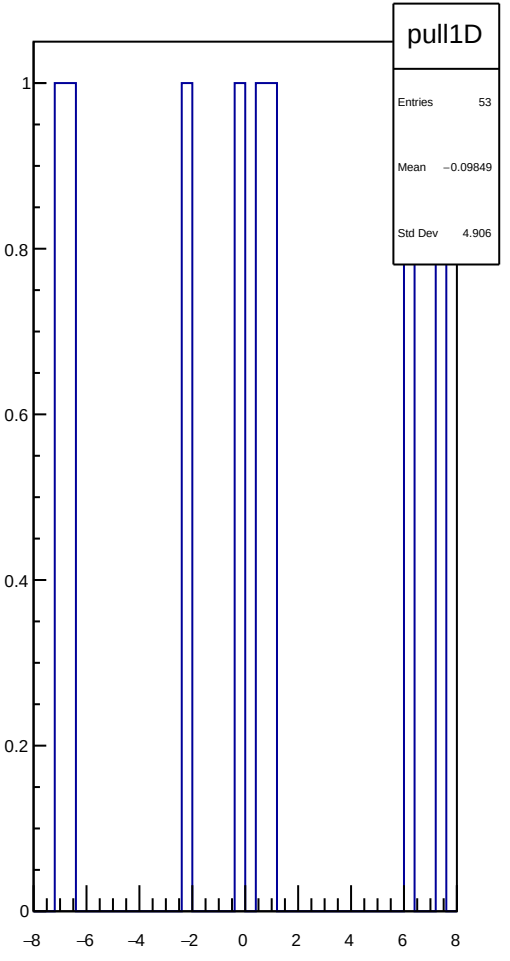

yield_bpm0l09X_rms vs run
χ² / ndf 9749 / 52
p0 0.009892 ± 9.812e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 2
6209. 3
6209. 4
6209. 5
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

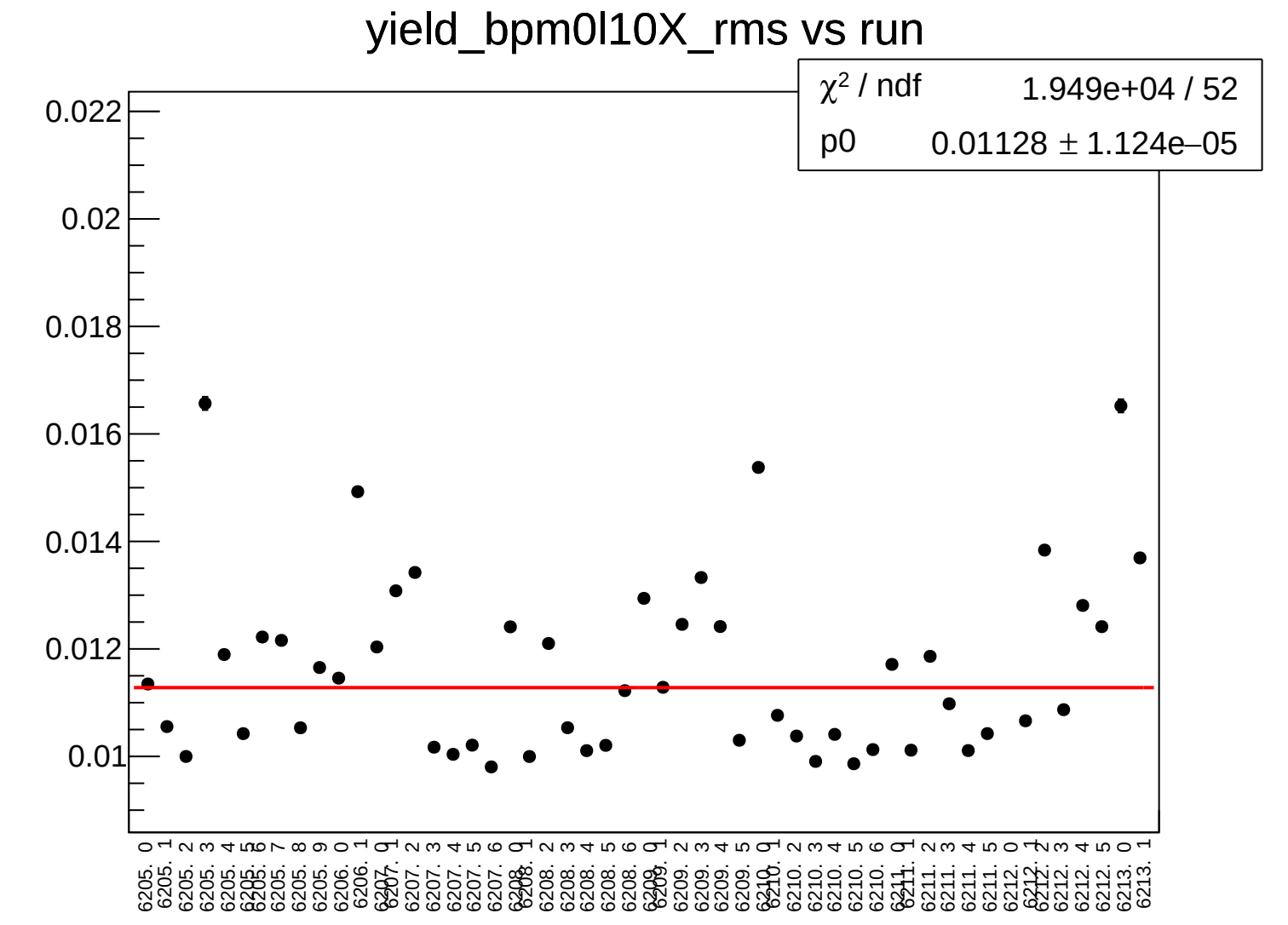

yield_bpm0l09Y_mean vs run
χ² / ndf 6.303e+05 / 52
p0 −0.08754 ± 7.154e−06
−0.055
−0.06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
−0.095
pull
Entries 53
Mean −11.51
Std Dev 27.03
300
200
100
0
−100

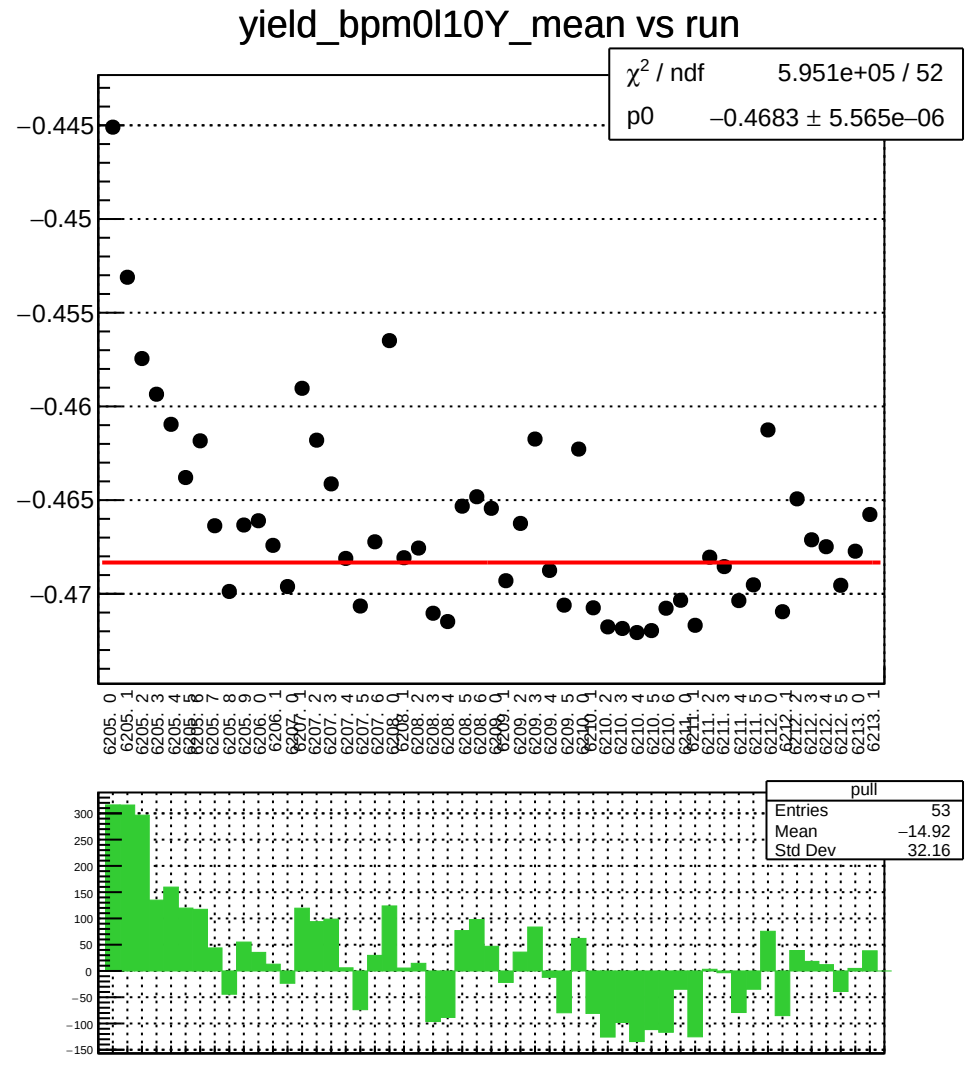

pull1D
Entries 53
Mean −1.205
Std Dev 1.583
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

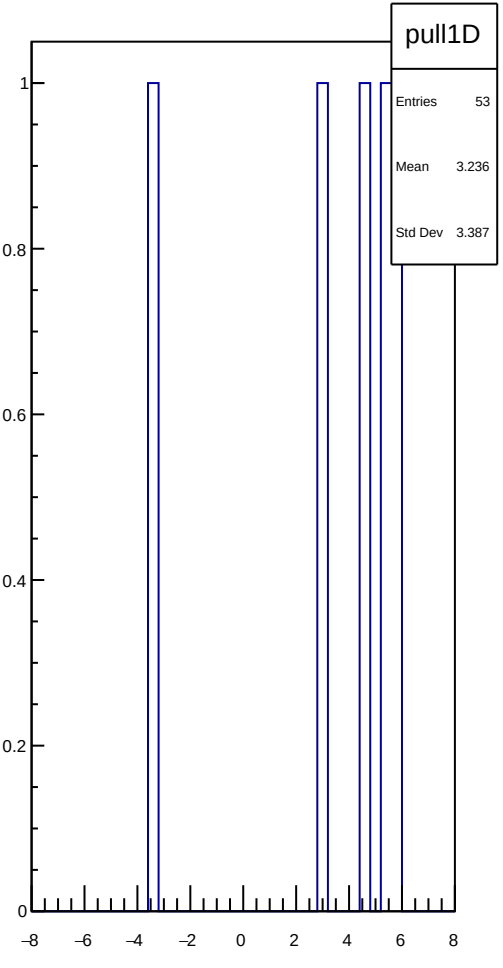

yield_bpm0l09Y_rms vs run
χ² / ndf 1.43e+05 / 52
p0 0.004754 ± 5.058e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

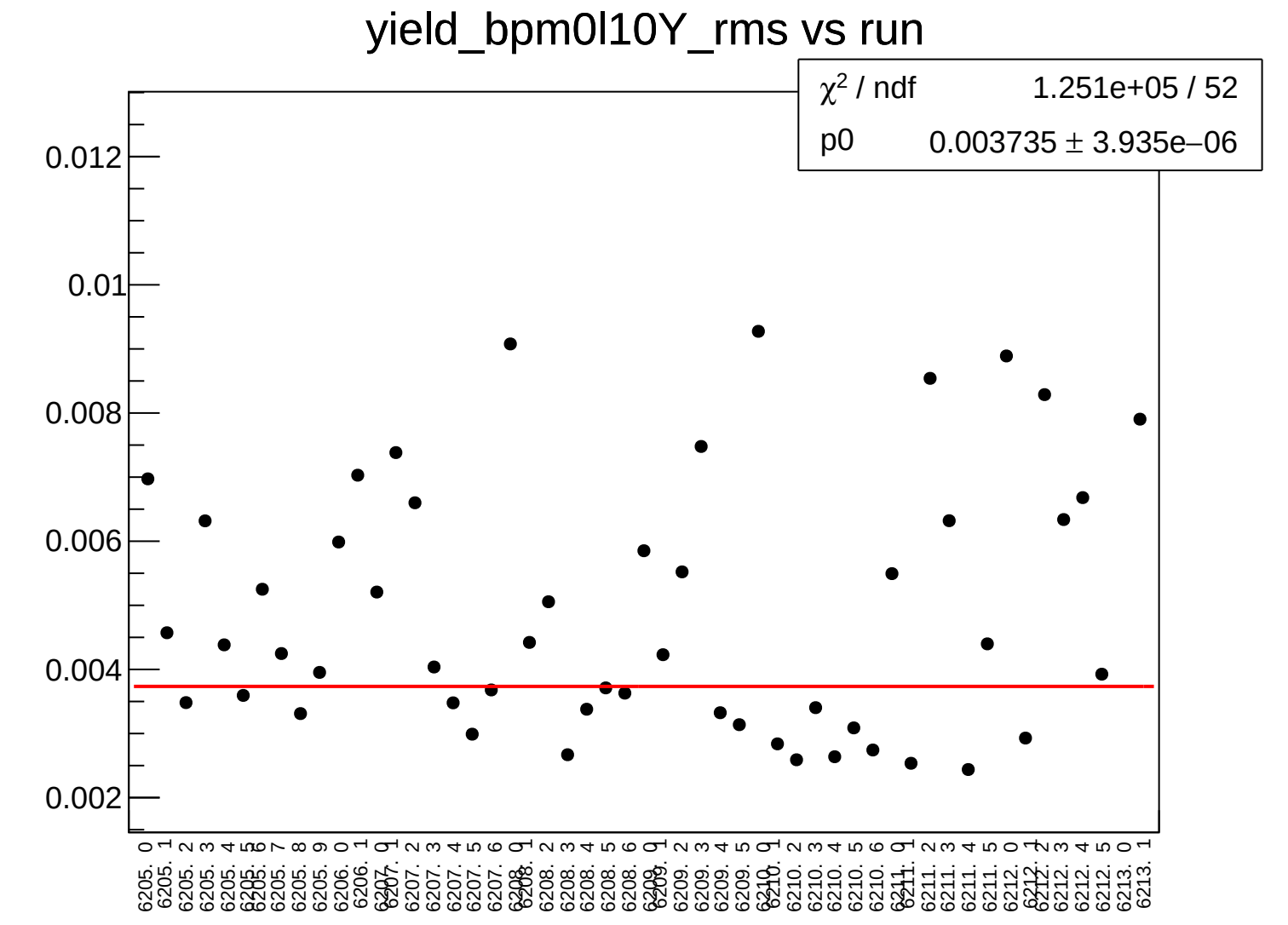

yield_bpm0l10X_mean vs run
χ² / ndf 7.874e+04 / 52
p0 −1.103 ± 1.59e−05
−1.09
−1.095
−1.1
−1.105
−1.11
pull
Entries 53
Mean 30.96
Std Dev 19.45

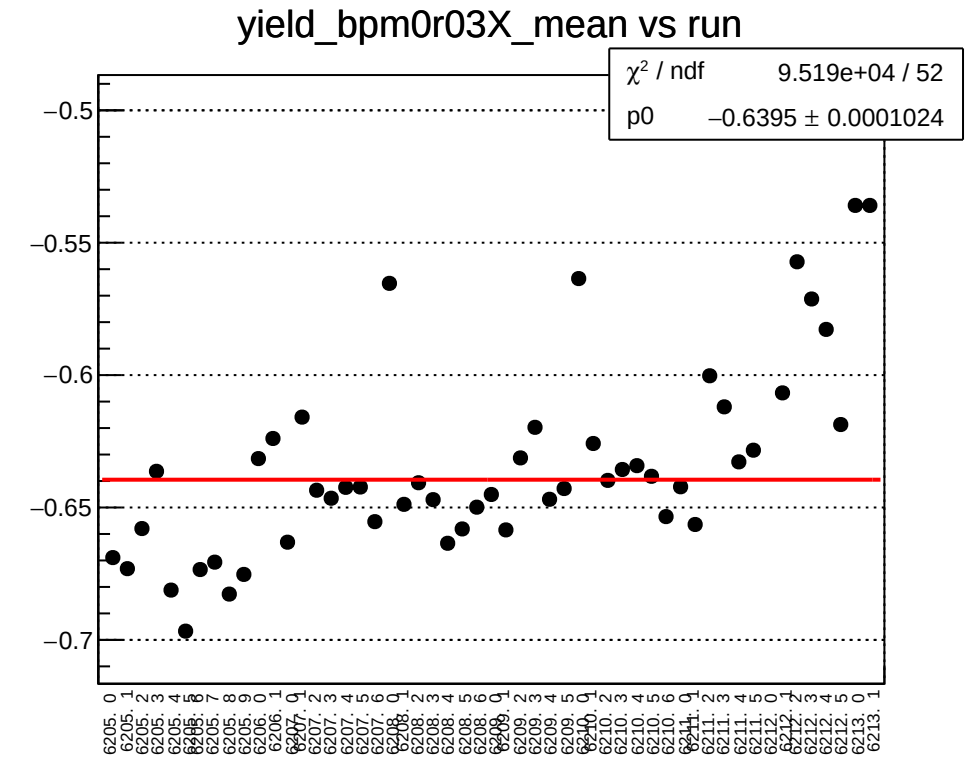

pull1D
Entries 53
Mean −0.09849
Std Dev 4.906

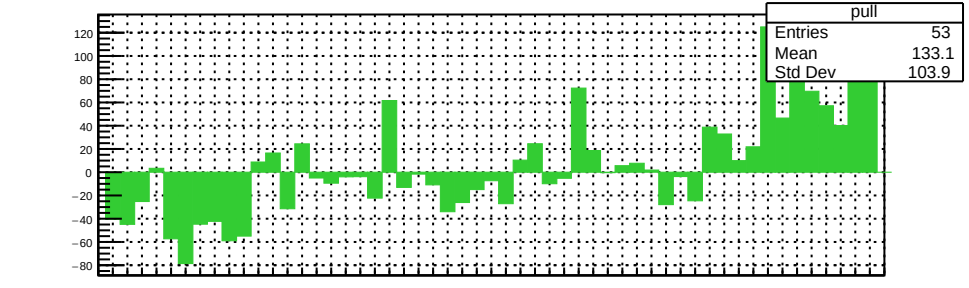

yield_bpm0l10X_rms vs run
χ² / ndf 1.949e+04 / 52
p0 0.01128 ± 1.124e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

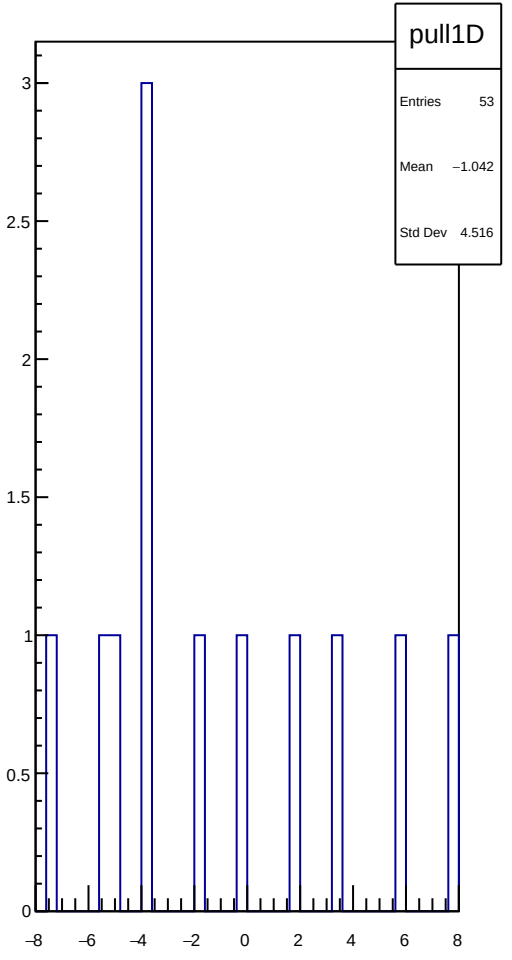

yield_bpm0l10Y_mean vs run
χ² / ndf 5.951e+05 / 52
p0 −0.4683 ± 5.565e−06
−0.445
−0.45
−0.455
−0.46
−0.465
−0.47
pull
Entries 53
Mean −14.92
Std Dev 32.16
300
250
200
150
100
50
0
−50
−100
−150

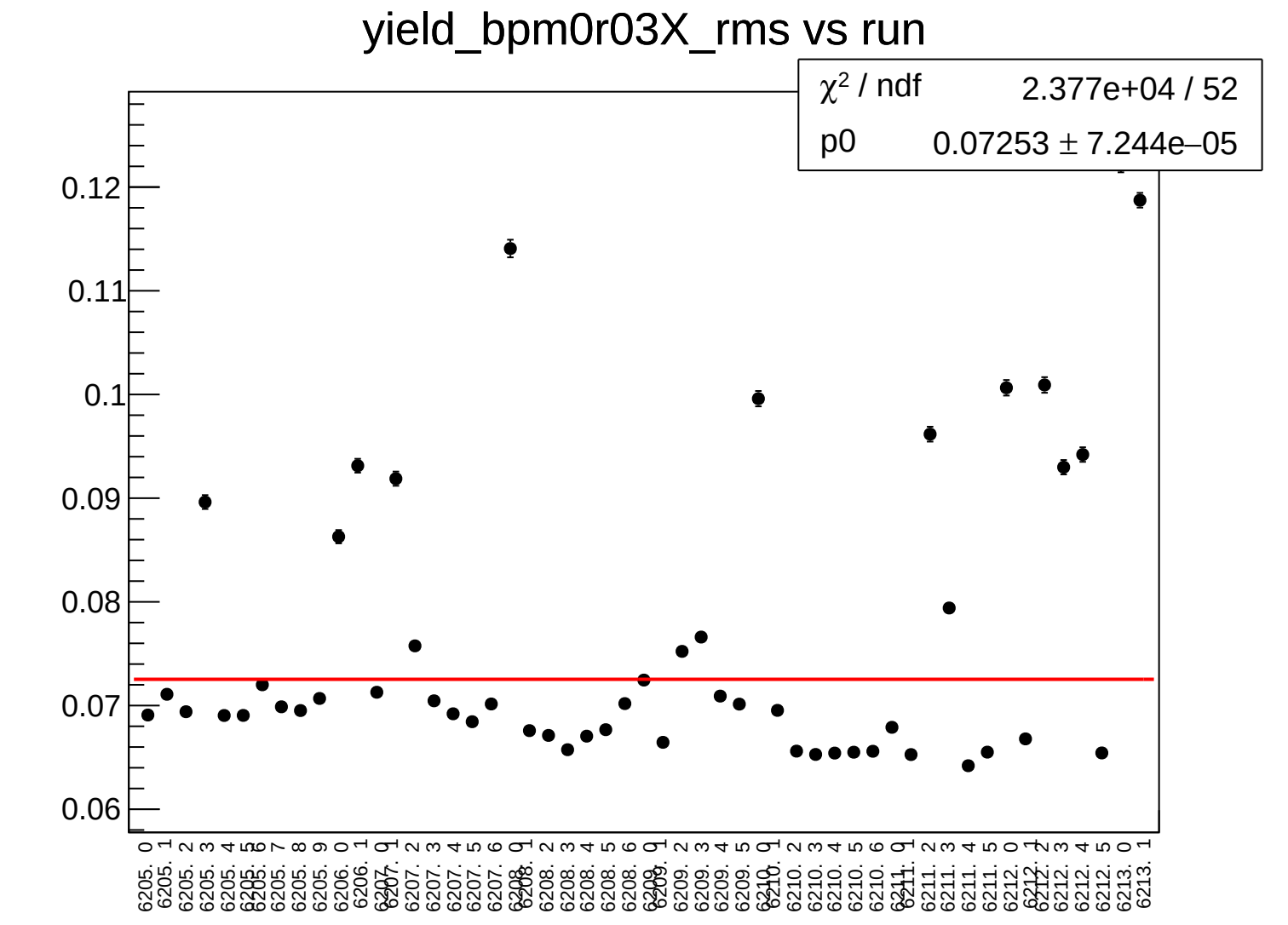

pull1D
Entries 53
Mean 3.236
Std Dev 3.387
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

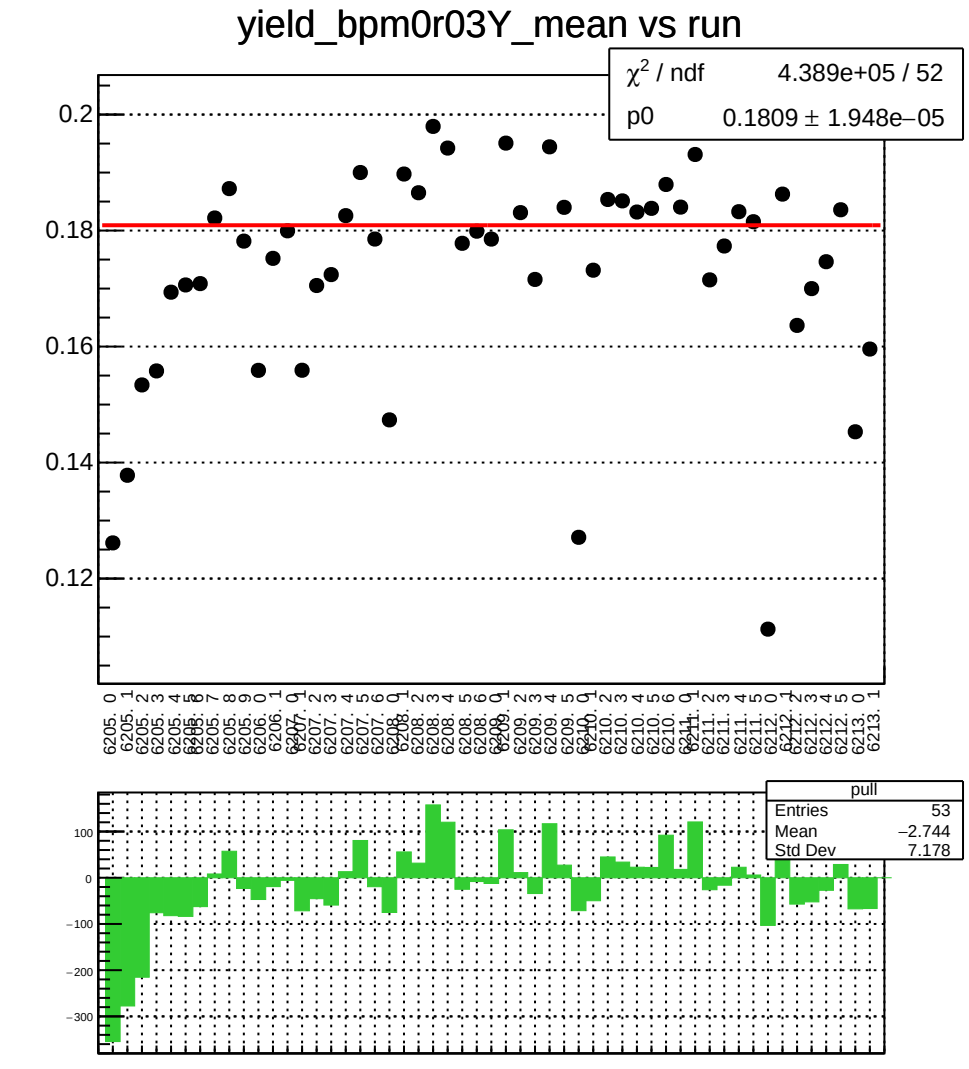

yield_bpm0l10Y_rms vs run
χ² / ndf 1.251e+05 / 52
p0 0.003735 ± 3.935e−06
0.012
0.01
0.008
0.006
0.004
0.002
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

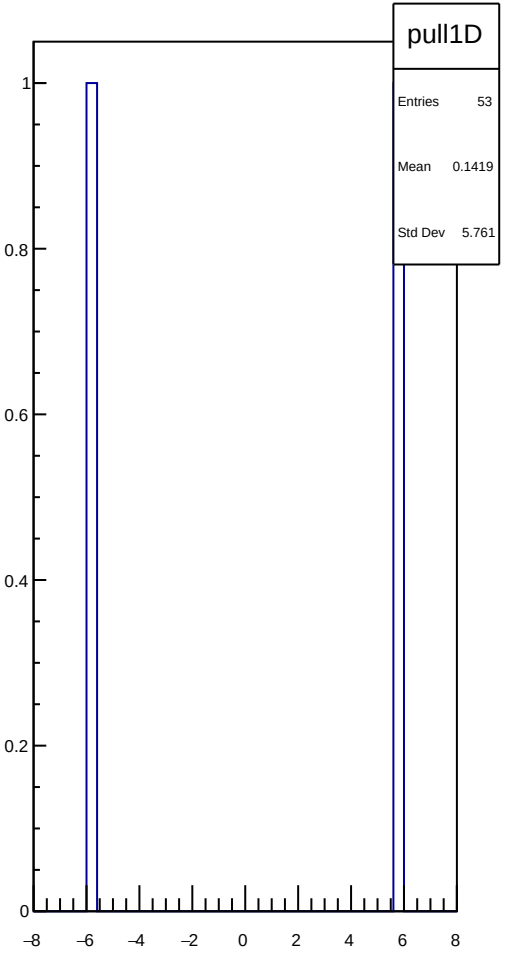

yield_bpm0r03X_mean vs run
χ² / ndf 9.519e+04 / 52
p0 −0.6395 ± 0.0001024
−0.5
−0.55
−0.6
−0.65
−0.7

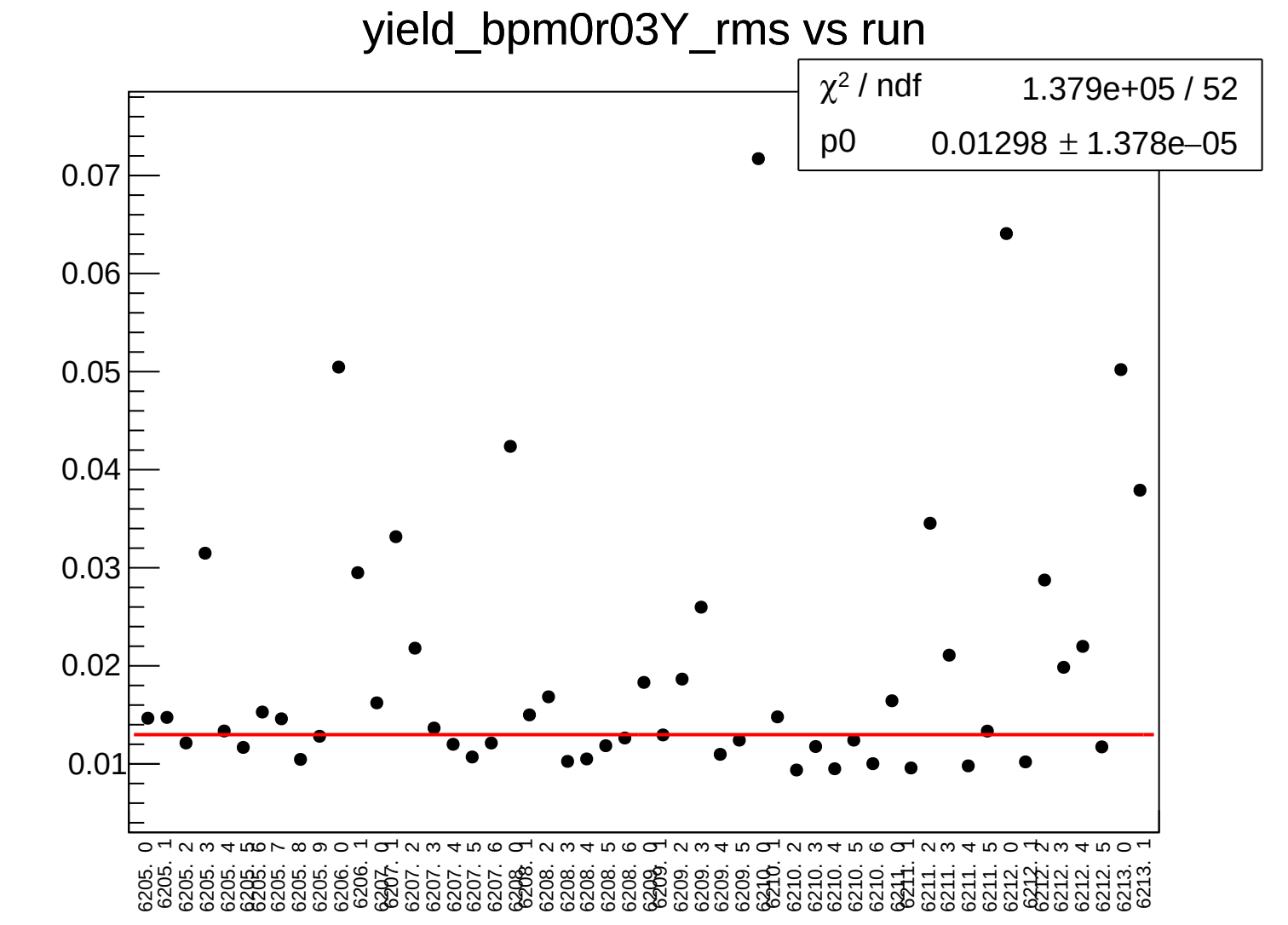

pull
Entries 53
Mean 133.1
Std Dev 103.9

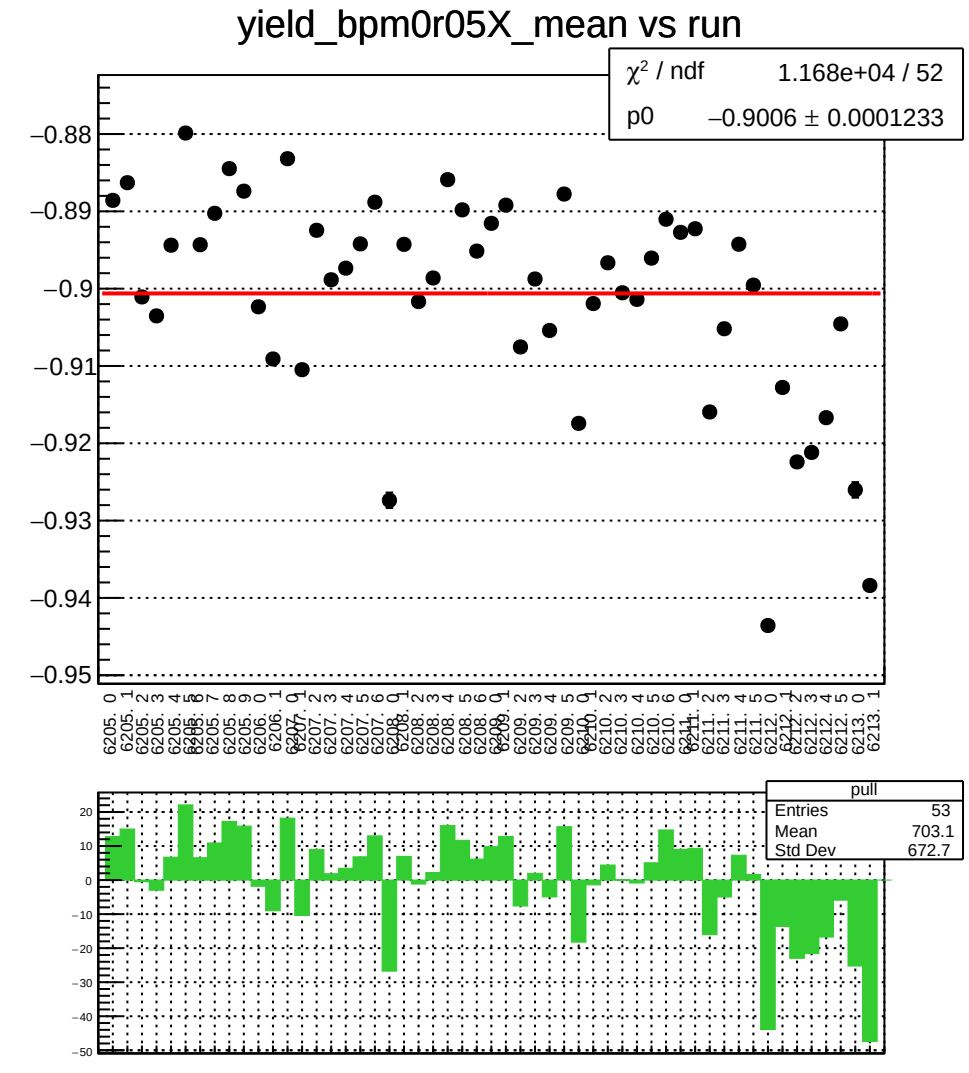

pull1D
Entries 53
Mean −1.042
Std Dev 4.516

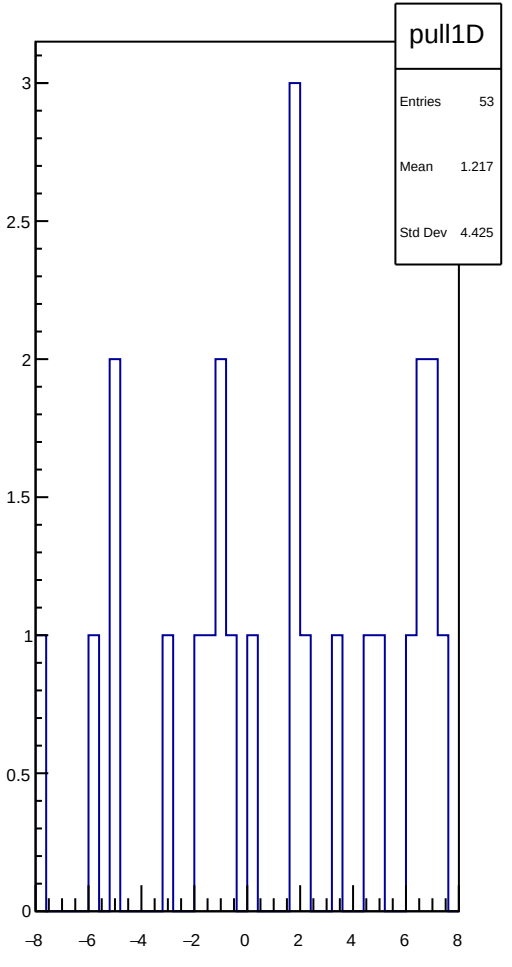

yield_bpm0r03X_rms vs run
χ² / ndf 2.377e+04 / 52
p0 0.07253 ± 7.244e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

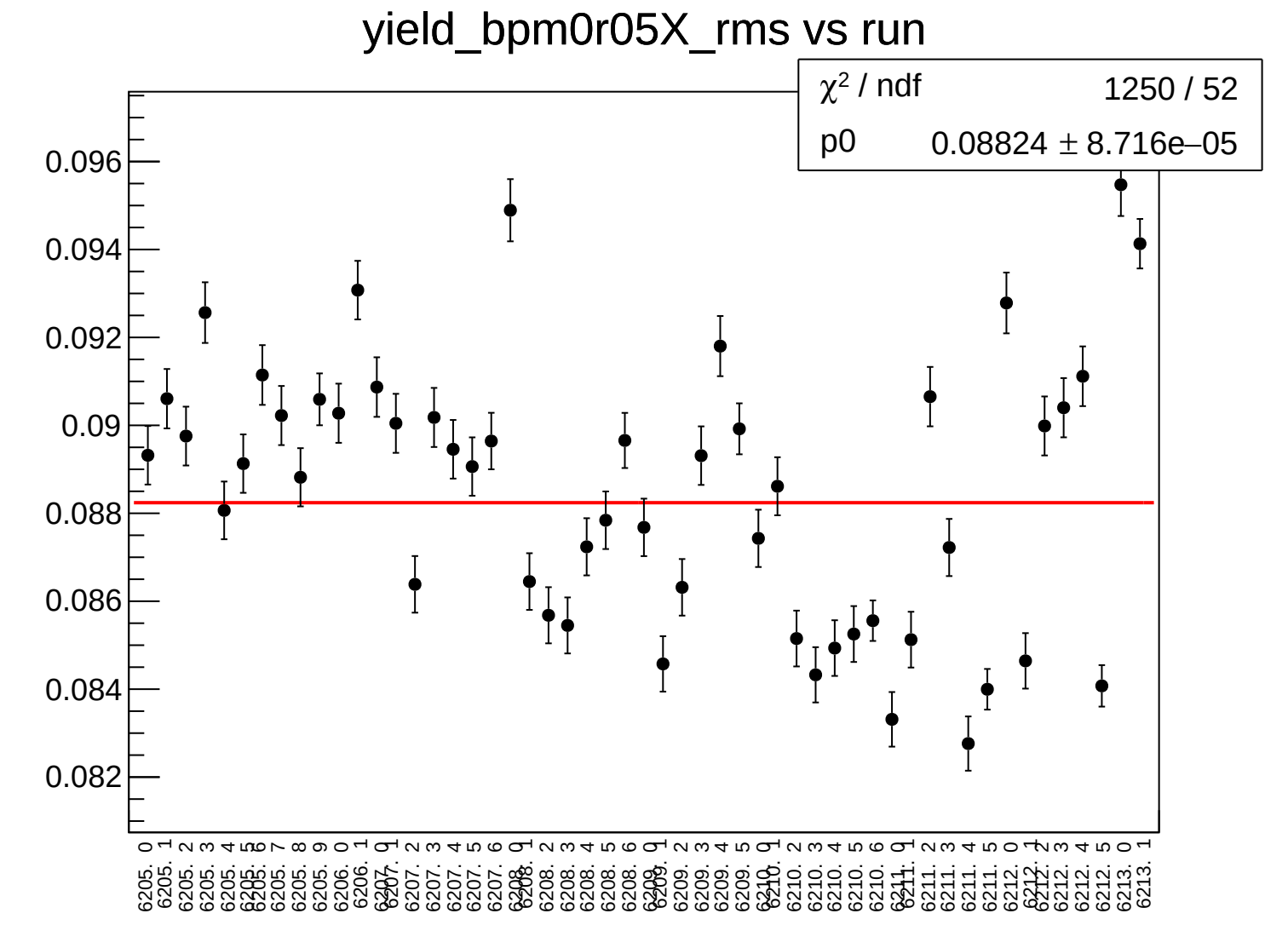

yield_bpm0r03Y_mean vs run
χ² / ndf 4.389e+05 / 52
p0 0.1809 ± 1.948e−05
0.2
0.18
0.16
0.14
0.12
pull
Entries 53
Mean −2.744
Std Dev 7.178
100
0
−100
−200
−300

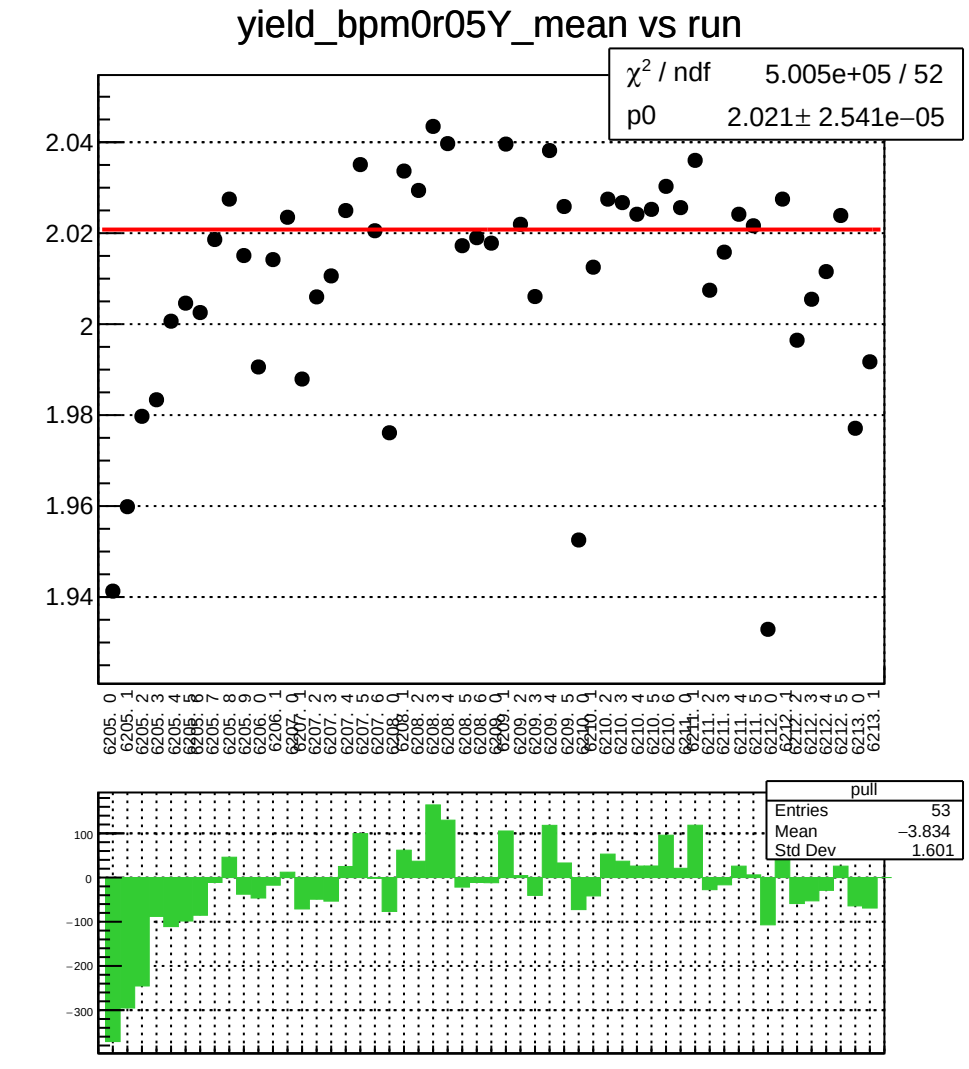

pull1D
Entries 53
Mean 0.1419
Std Dev 5.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

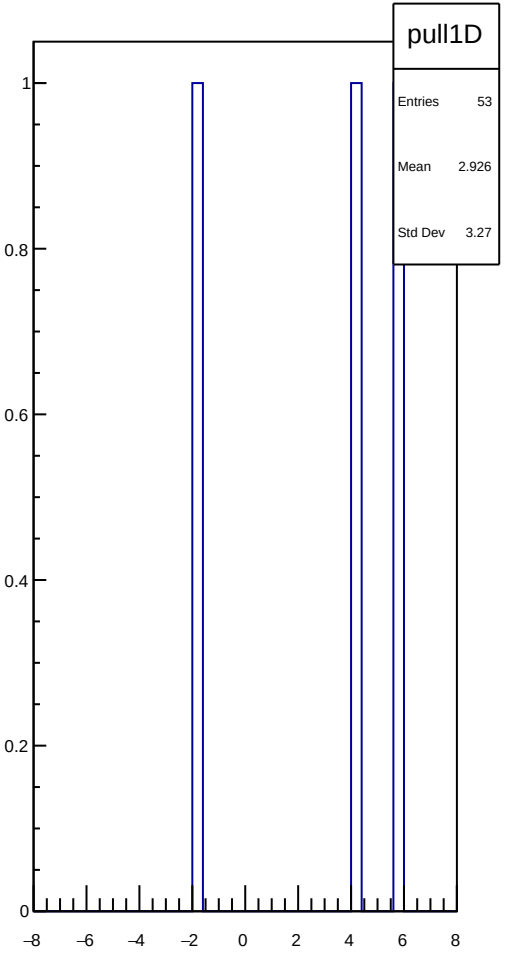

yield_bpm0r03Y_rms vs run
χ² / ndf 1.379e+05 / 52
p0 0.01298 ± 1.378e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

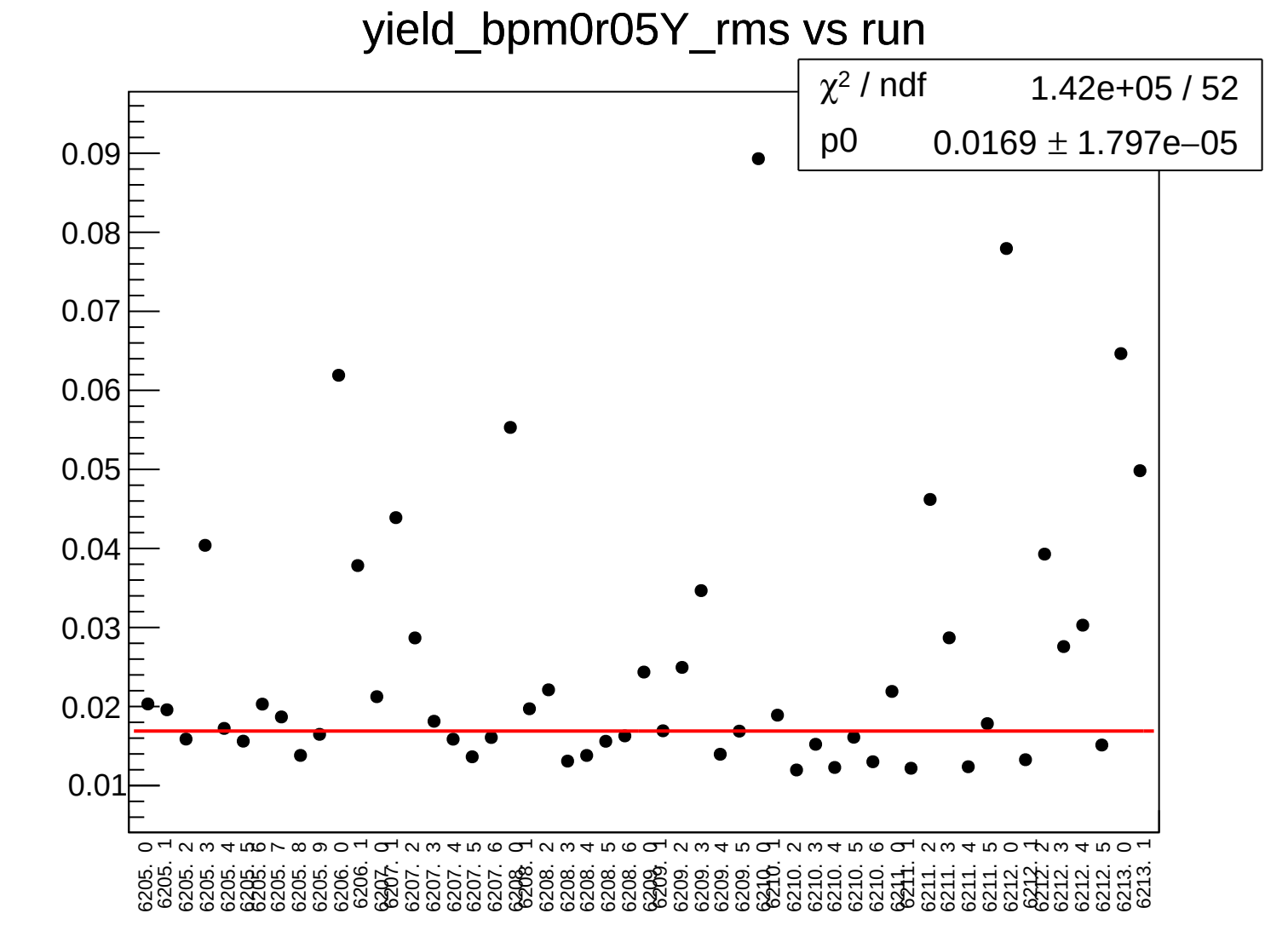

yield_bpm0r05X_mean vs run
χ² / ndf 1.168e+04 / 52
p0 −0.9006 ± 0.0001233
−0.88
−0.89
−0.9
−0.91
−0.92
−0.93
−0.94
−0.95
pull
Entries 53
Mean 703.1
Std Dev 672.7
20
10
0
−10
−20
−30
−40
−50

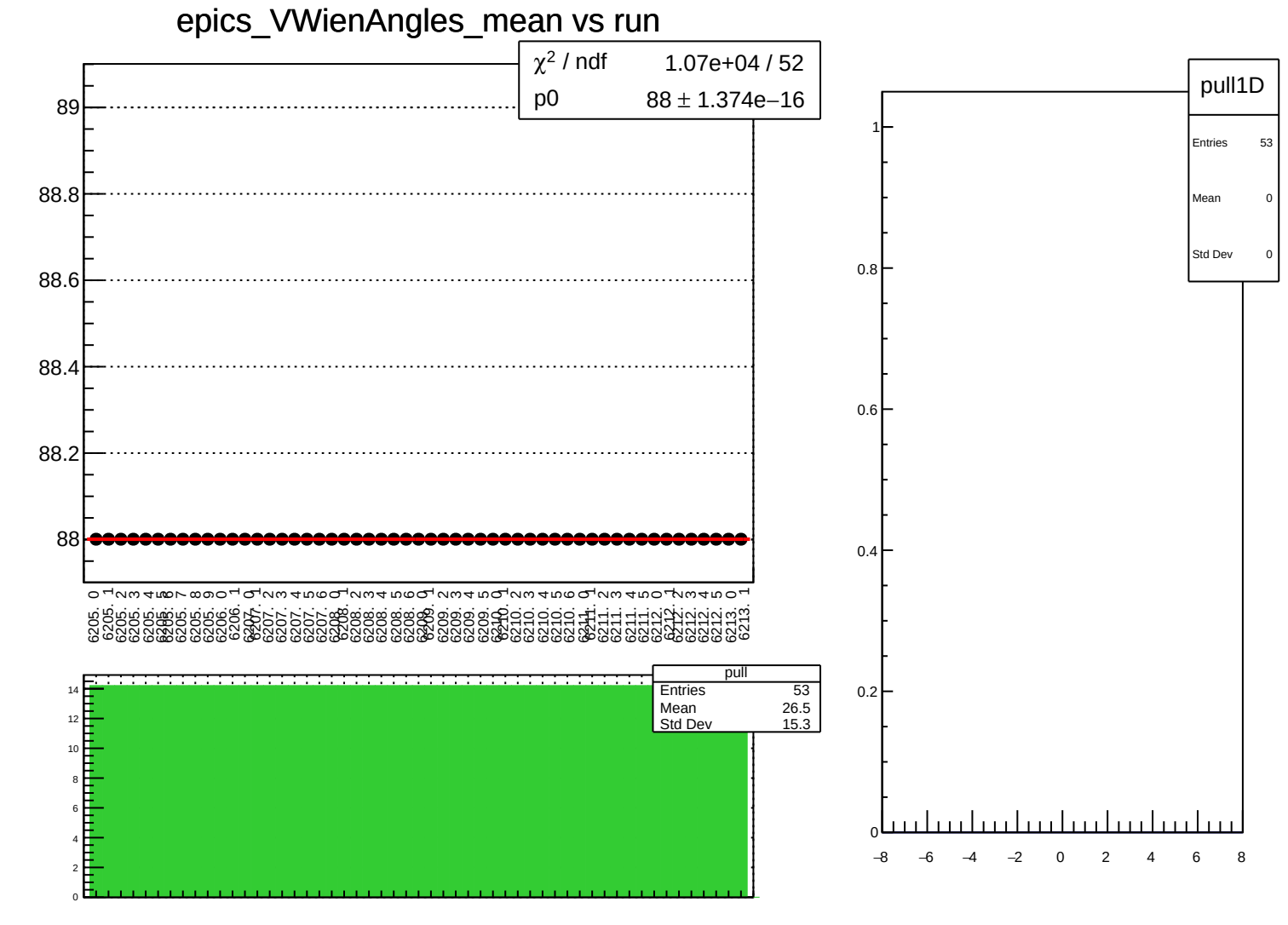

pull1D
Entries 53
Mean 1.217
Std Dev 4.425
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

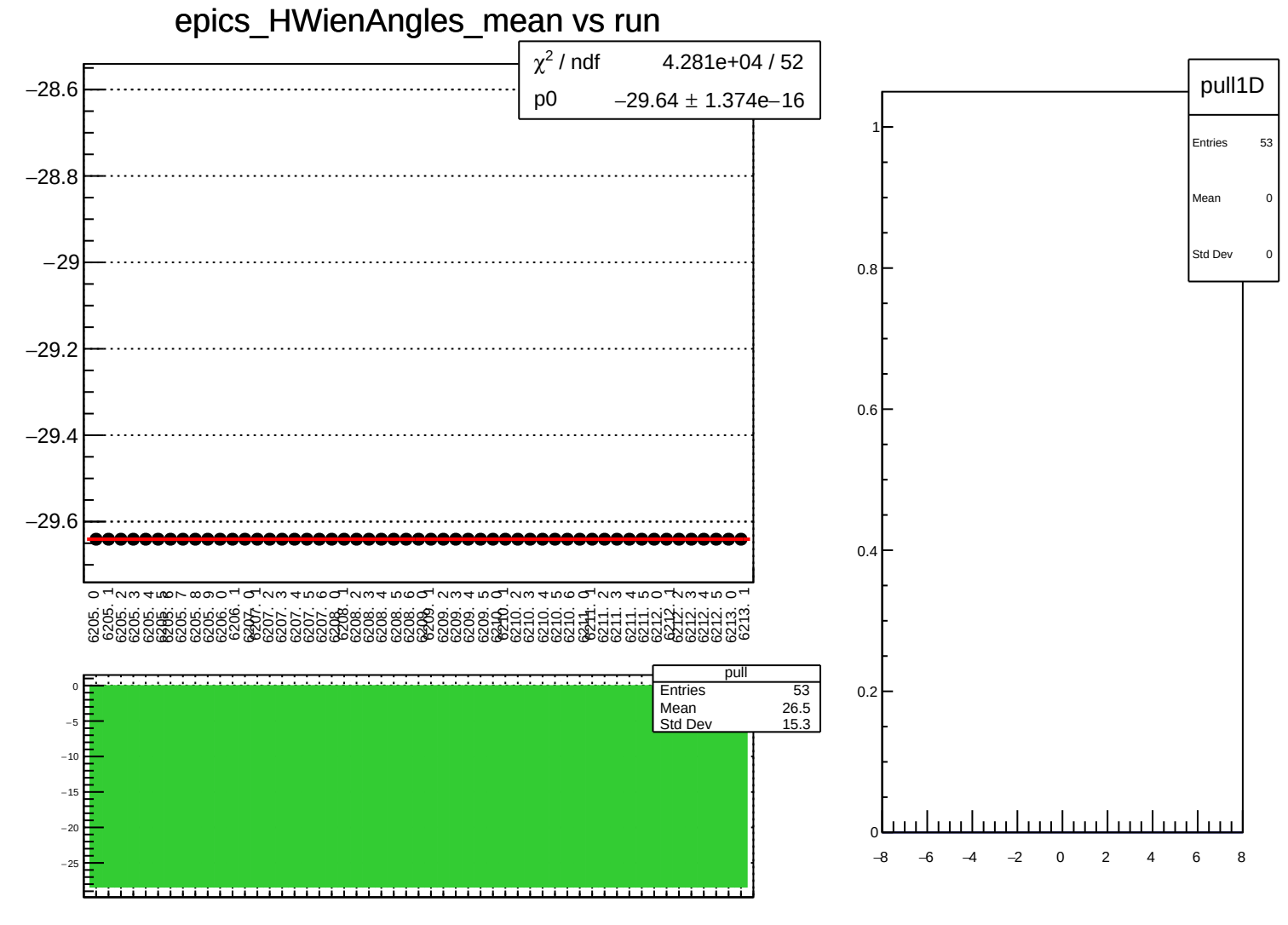

yield_bpm0r05X_rms vs run
χ² / ndf 1250 / 52
p0 0.08824 ± 8.716e–05
0.096
0.094
0.092
0.09
0.088
0.086
0.084
0.082
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

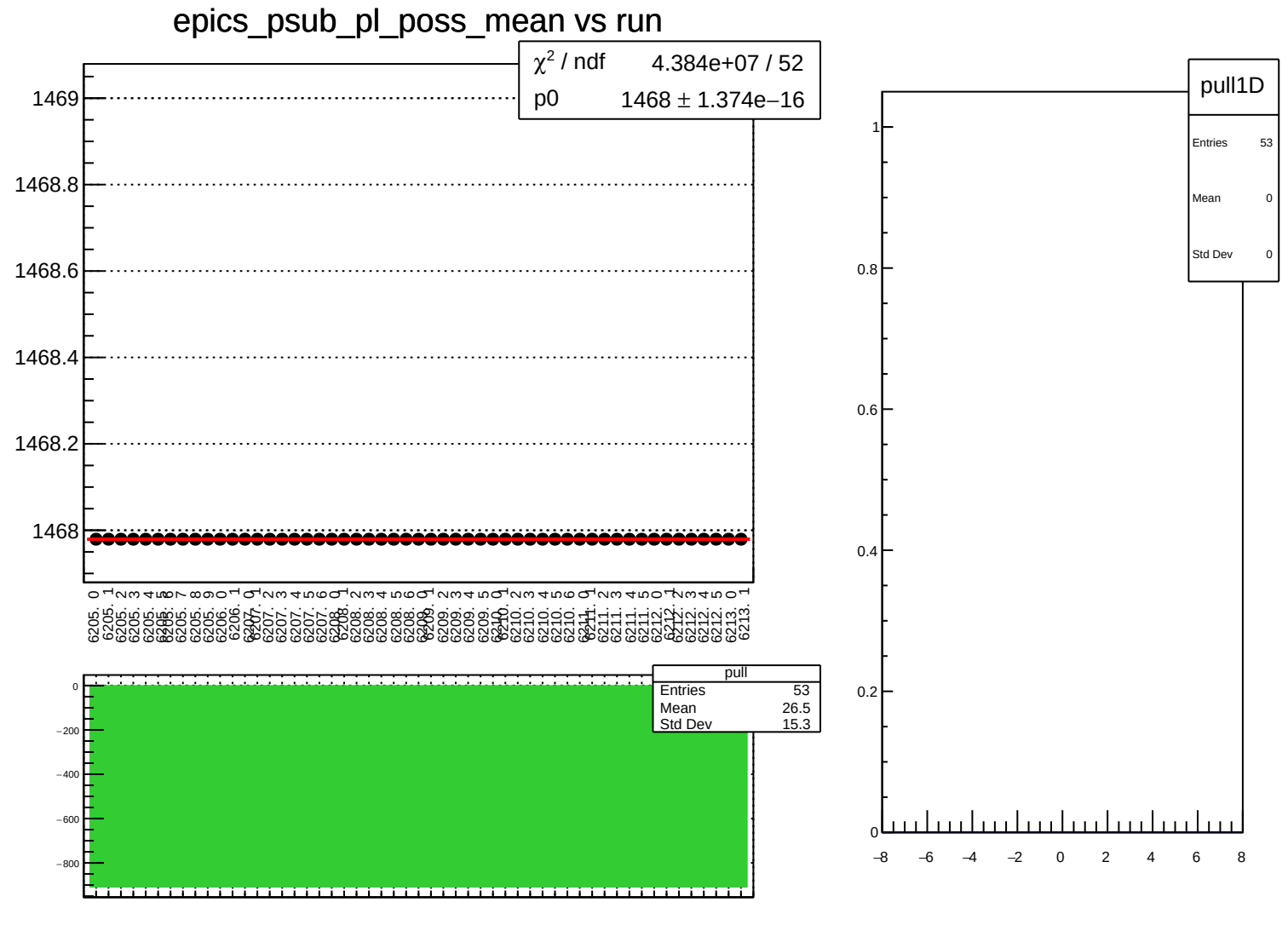

yield_bpm0r05Y_mean vs run
χ² / ndf 5.005e+05 / 52
p0 2.021± 2.541e−05
2.04
2.02
2
1.98
1.96
1.94
pull
Entries 53
Mean −3.834
Std Dev 1.601
100
0
−100
−200
−300

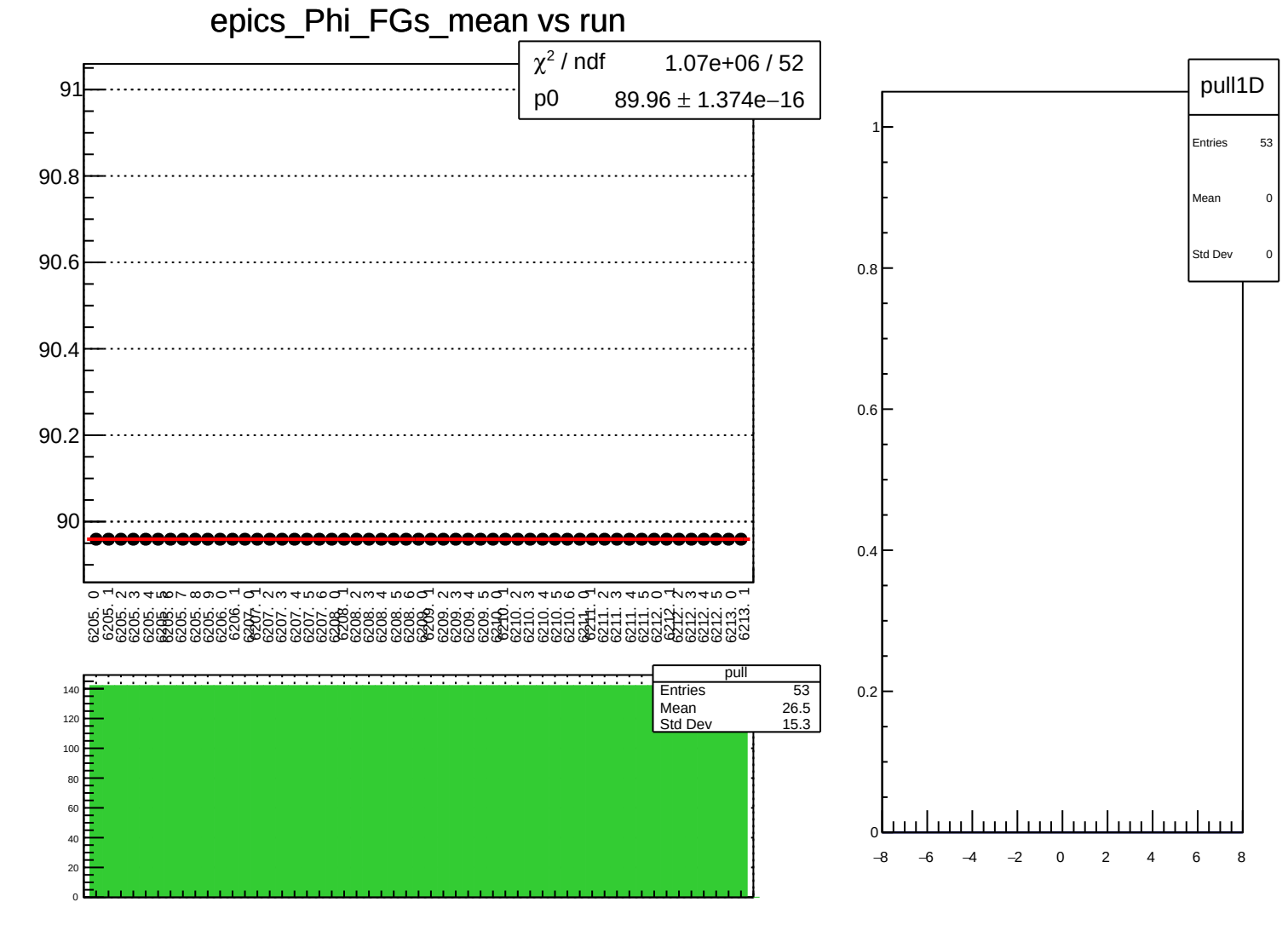

pull1D
Entries 53
Mean 2.926
Std Dev 3.27
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

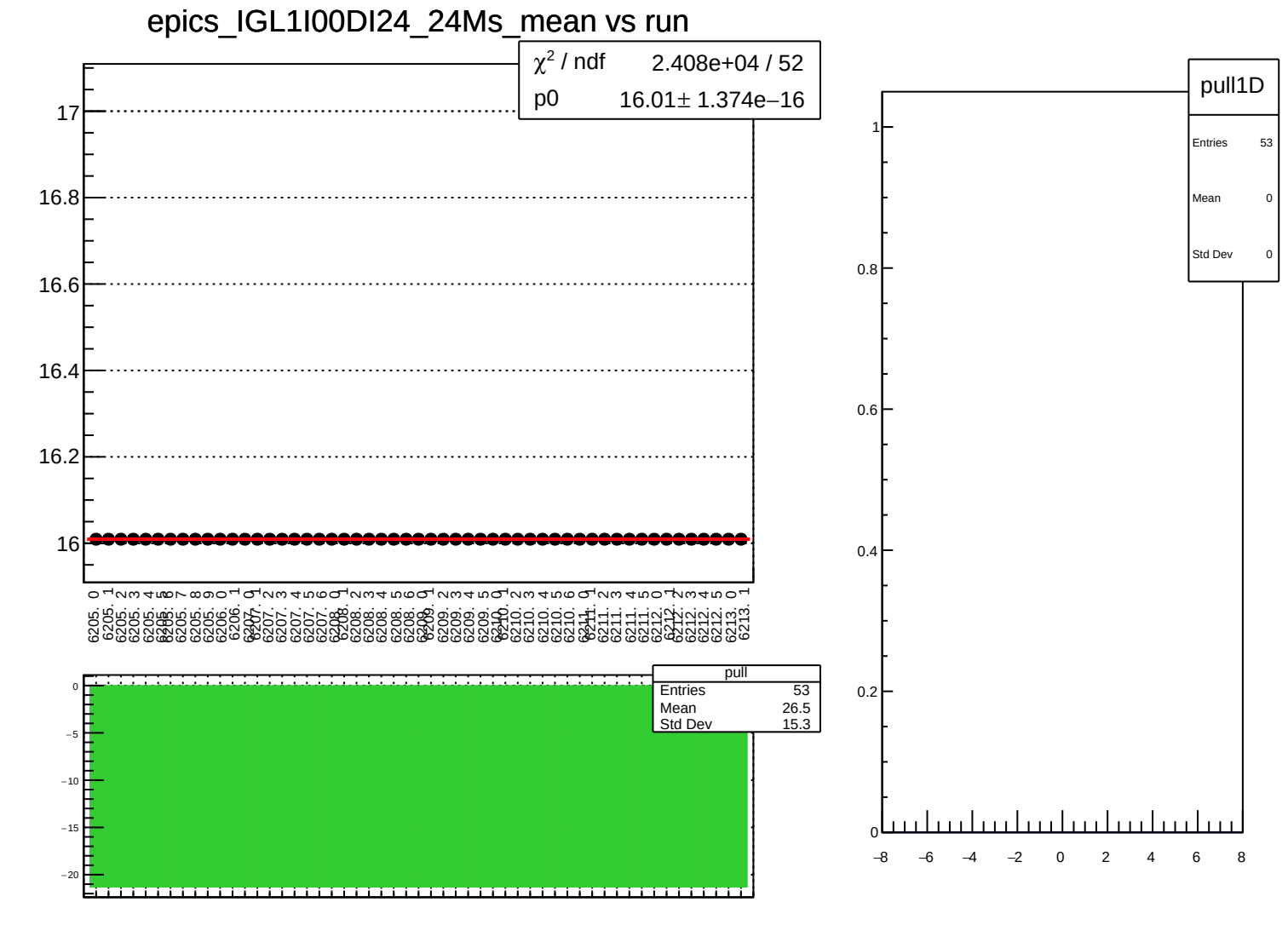

yield_bpm0r05Y_rms vs run
χ² / ndf 1.42e+05 / 52
p0 0.0169 ± 1.797e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6205. 0
6205. 1
6205. 2
6205. 3
6205. 4
6205. 5
6205. 6
6205. 7
6205. 8
6205. 9
6206. 0
6206. 1
6207. 0
6207. 1
6207. 2
6207. 3
6207. 4
6207. 5
6207. 6
6208. 0
6208. 1
6208. 2
6208. 3
6208. 4
6208. 5
6208. 6
6209. 0
6209. 1
6209. 2
6209. 3
6209. 4
6209. 5
6210. 0
6210. 1
6210. 2
6210. 3
6210. 4
6210. 5
6210. 6
6211. 0
6211. 1
6211. 2
6211. 3
6211. 4
6211. 5
6212. 0
6212. 1
6212. 2
6212. 3
6212. 4
6212. 5
6213. 0
6213. 1

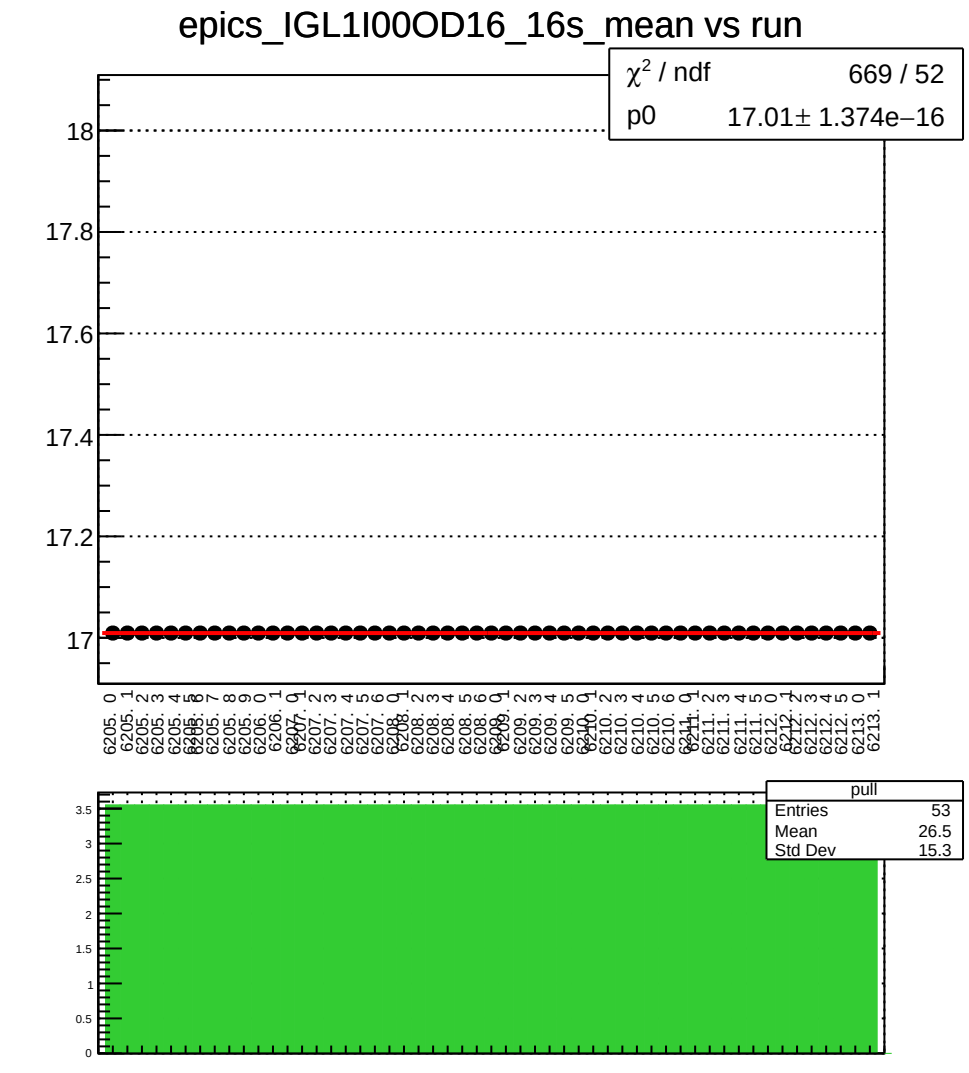

epics_VWienAngles_mean vs run
χ² / ndf 1.07e+04 / 52
p0 88 ± 1.374e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 53
Mean 26.5
Std Dev 15.3
14
12
10
8
6
4
2
0
pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

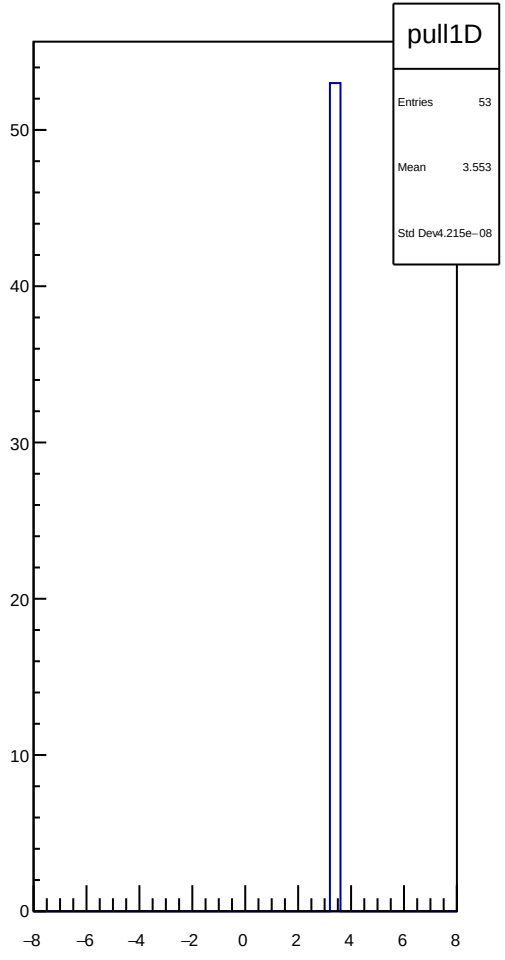

epics_HWienAngles_mean vs run
χ² / ndf 4.281e+04 / 52
p0 −29.64 ± 1.374e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 53
Mean 26.5
Std Dev 15.3
pull1D
Entries 53
Mean 0
Std Dev 0

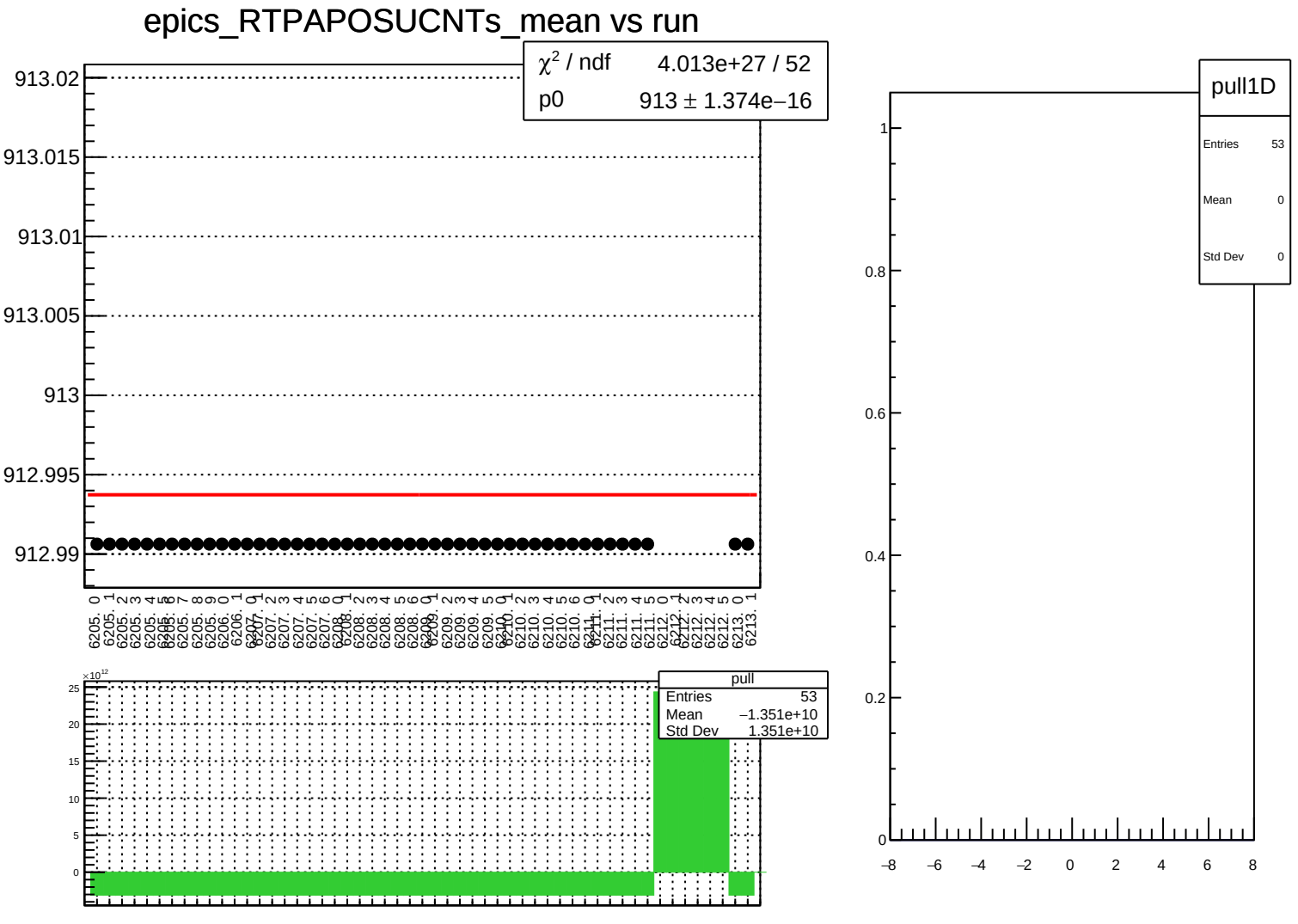

epics_psub_pl_poss_mean vs run
χ² / ndf 4.384e+07 / 52
p0 1468 ± 1.374e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 53
Mean 26.5
Std Dev 15.3
0
−200
−400
−600
−800
pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

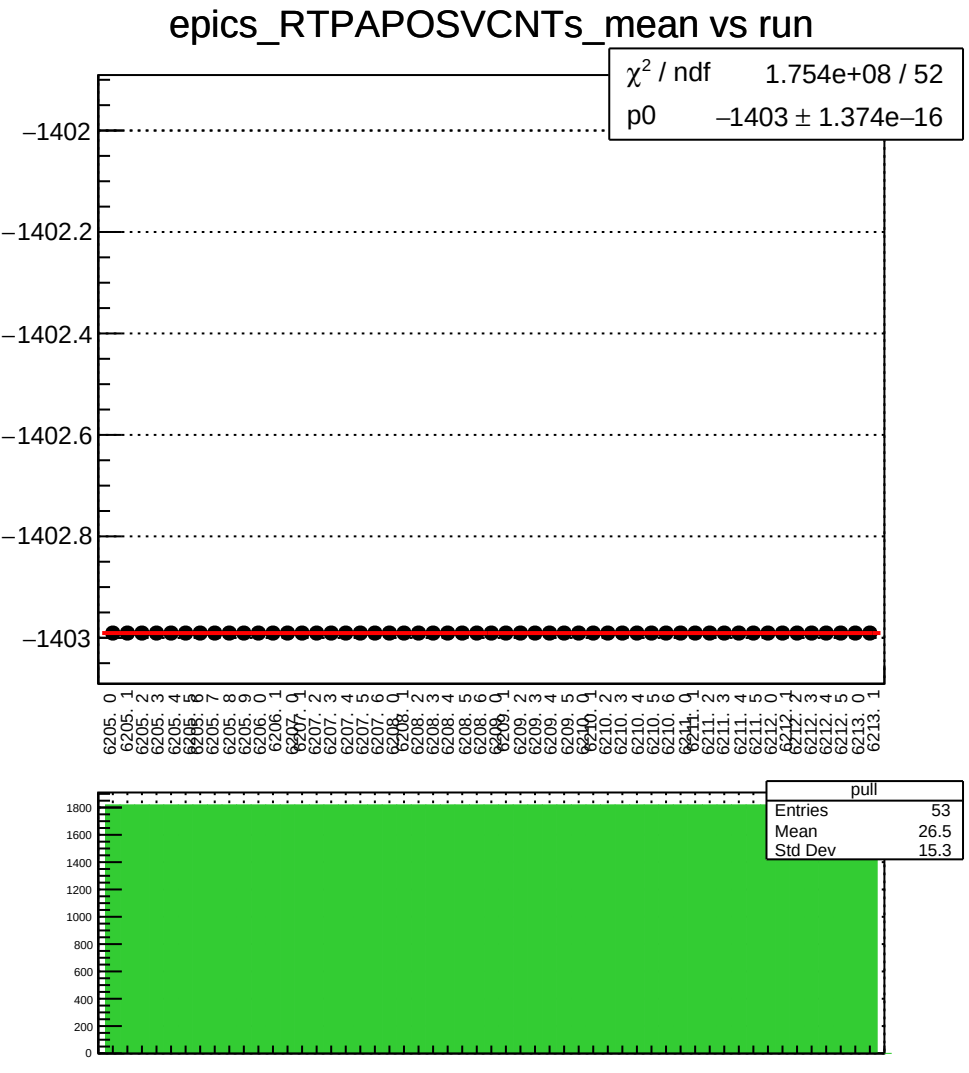

epics_Phi_FGs_mean vs run
χ² / ndf 1.07e+06 / 52
p0 89.96 ± 1.374e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 53
Mean 26.5
Std Dev 15.3
140
120
100
80
60
40
20
0
pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

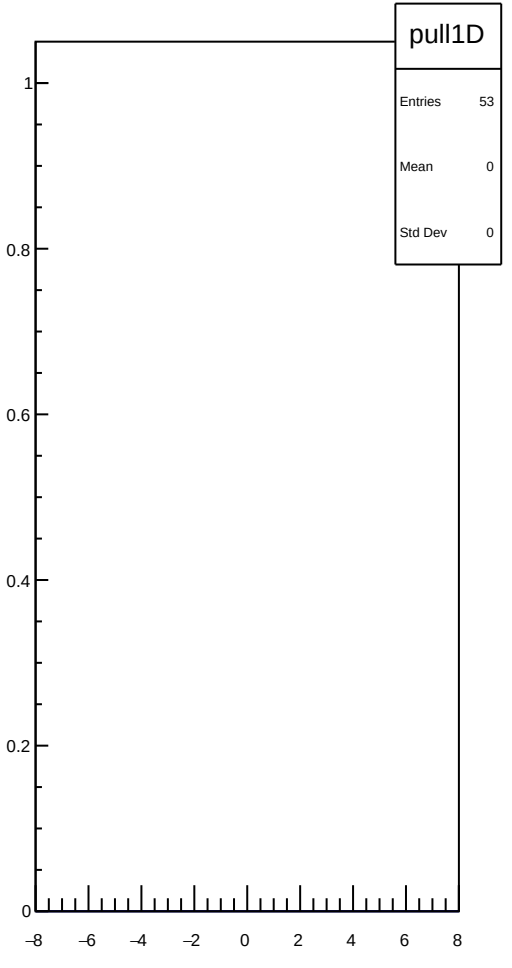

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 2.408e+04 / 52
p0 16.01± 1.374e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 53
Mean 26.5
Std Dev 15.3
0
−5
−10
−15
−20
pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 669 / 52
p0 17.01± 1.374e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 53
Mean 26.5
Std Dev 15.3
3.5
3
2.5
2
1.5
1
0.5
0


pull1D
Entries 53
Mean 3.553
Std Dev 4.215e−08
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 4.013e+27 / 52
p0 913 ± 1.374e−16
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 53
Mean −1.351e+10
Std Dev 1.351e+10
pull1D
Entries 53
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 1.754e+08 / 52
p0 −1403 ± 1.374e−16
−1402
−1402.2
−1402.4
−1402.6
−1402.8
−1403
pull
Entries 53
Mean 26.5
Std Dev 15.3
1800
1600
1400
1200
1000
800
600
400
200
0


pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8