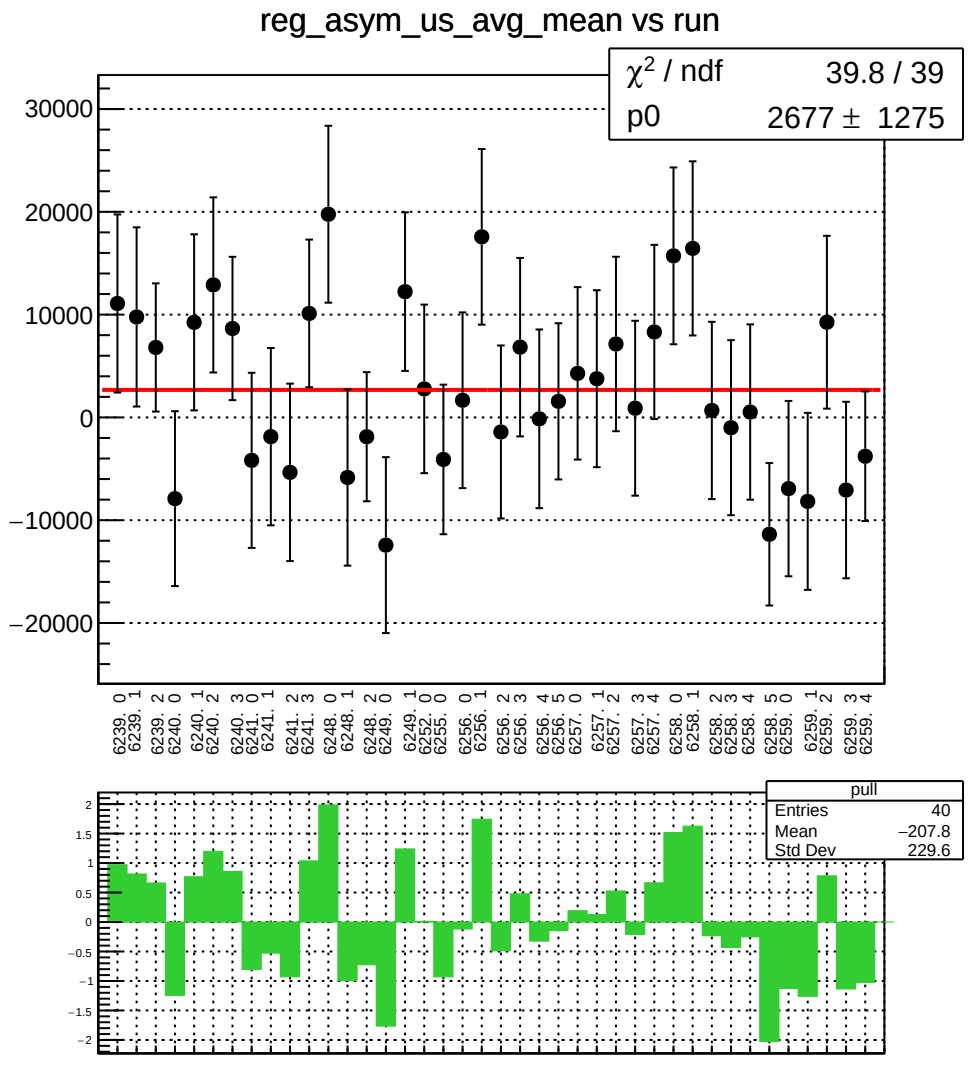
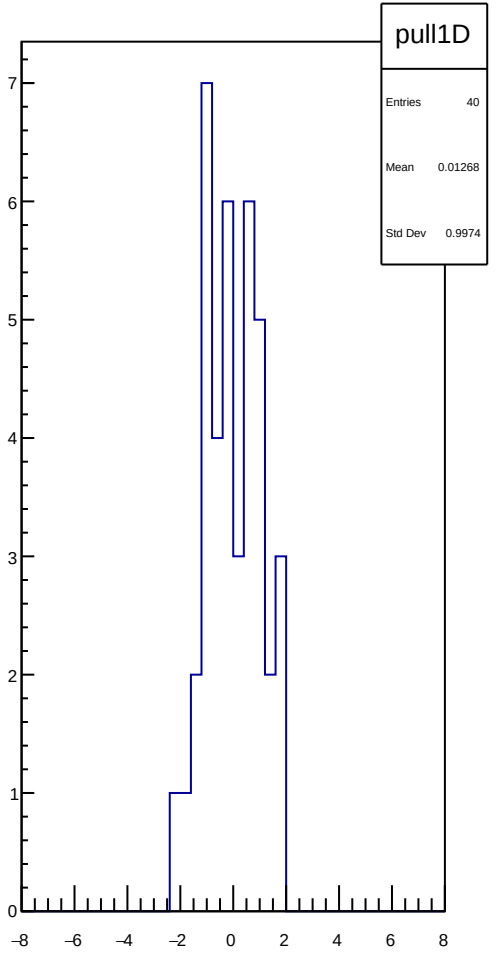
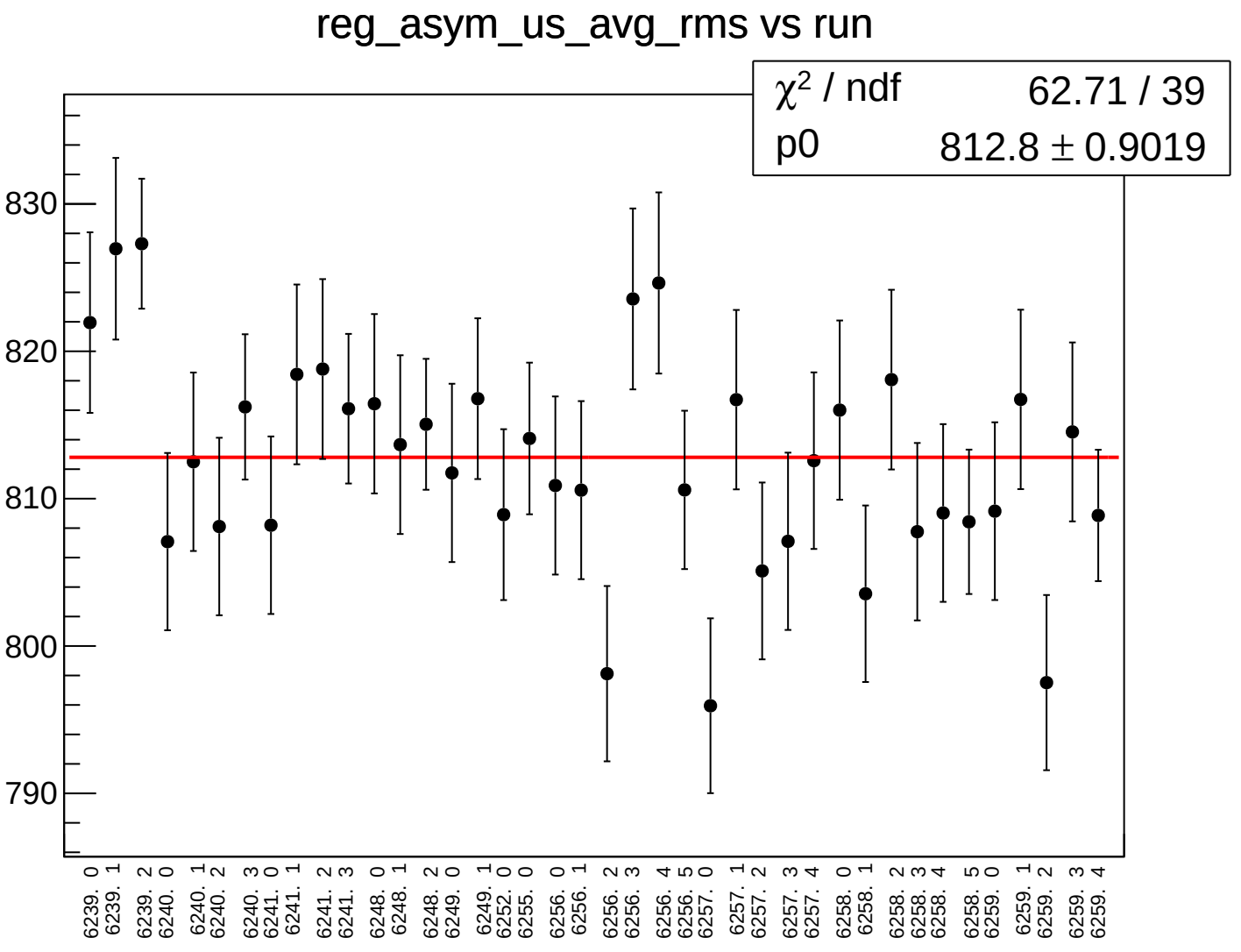
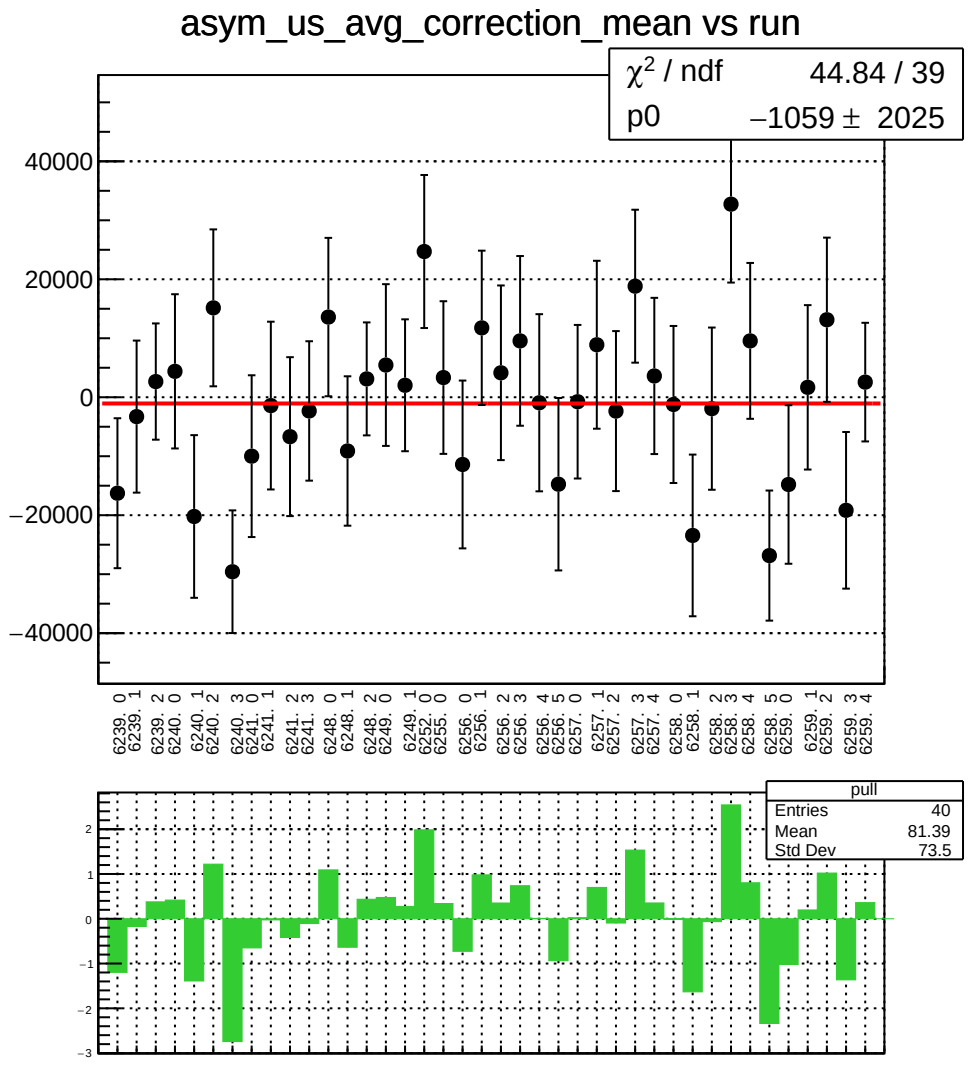
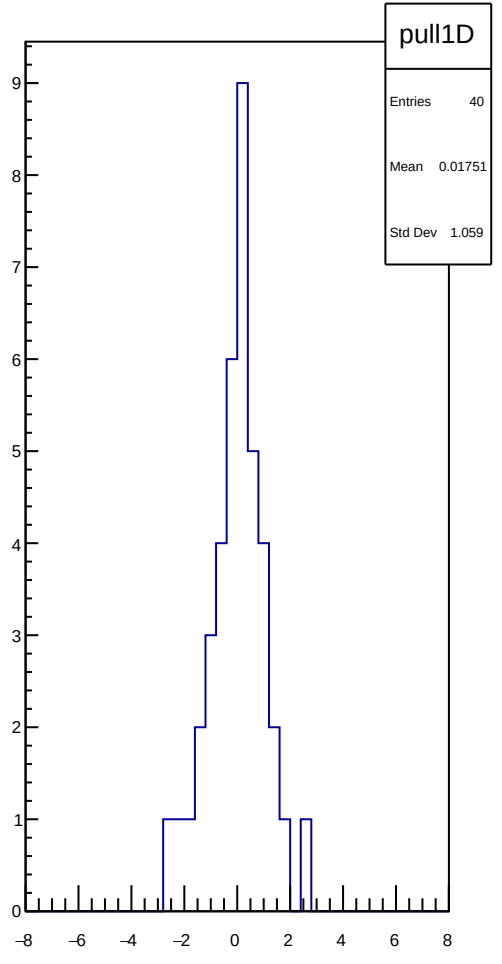
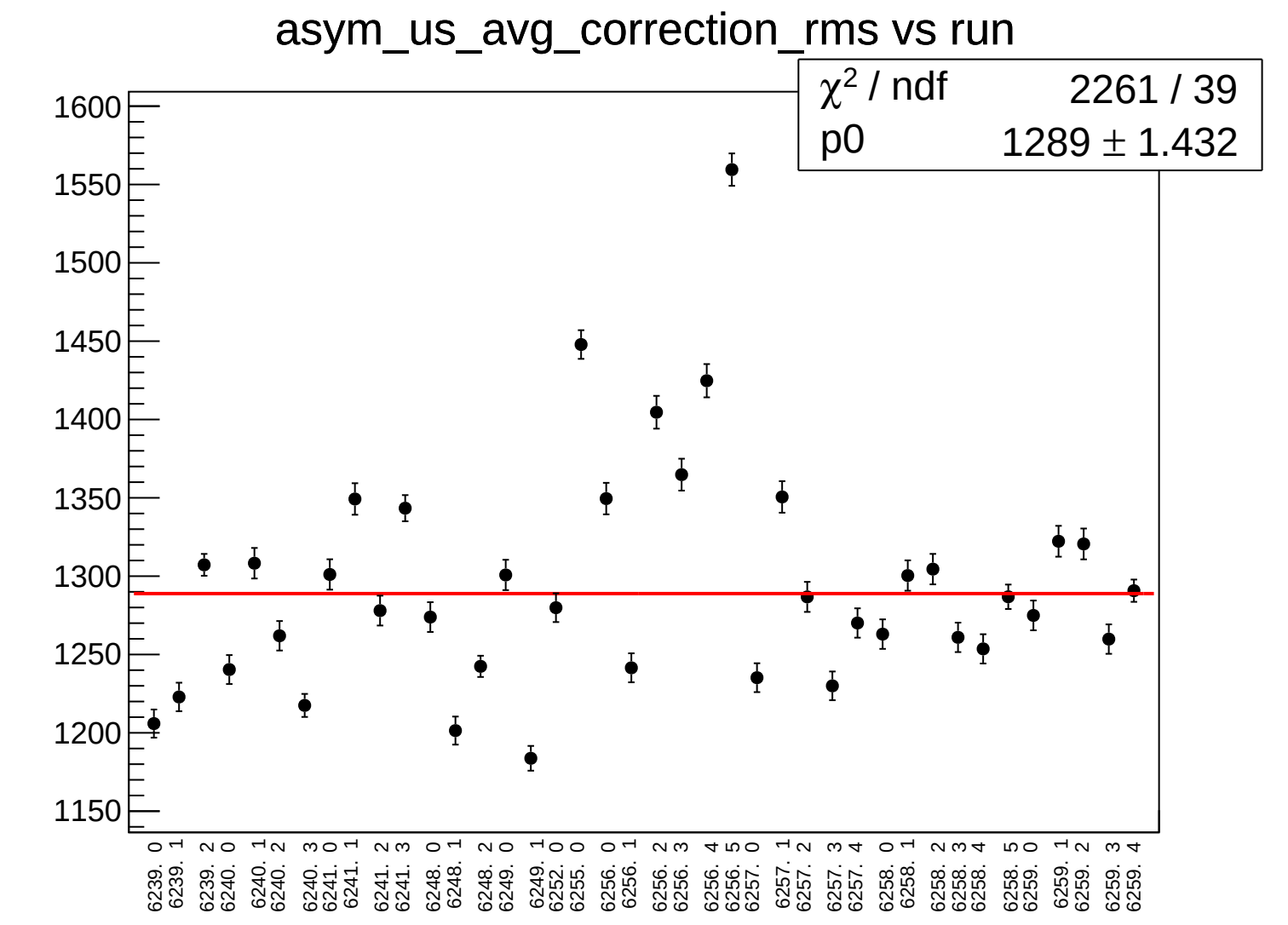

reg_asym_us_avg_mean vs run
χ² / ndf 39.8 / 39
p0 2677 ± 1275
30000
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −207.8
Std Dev 229.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

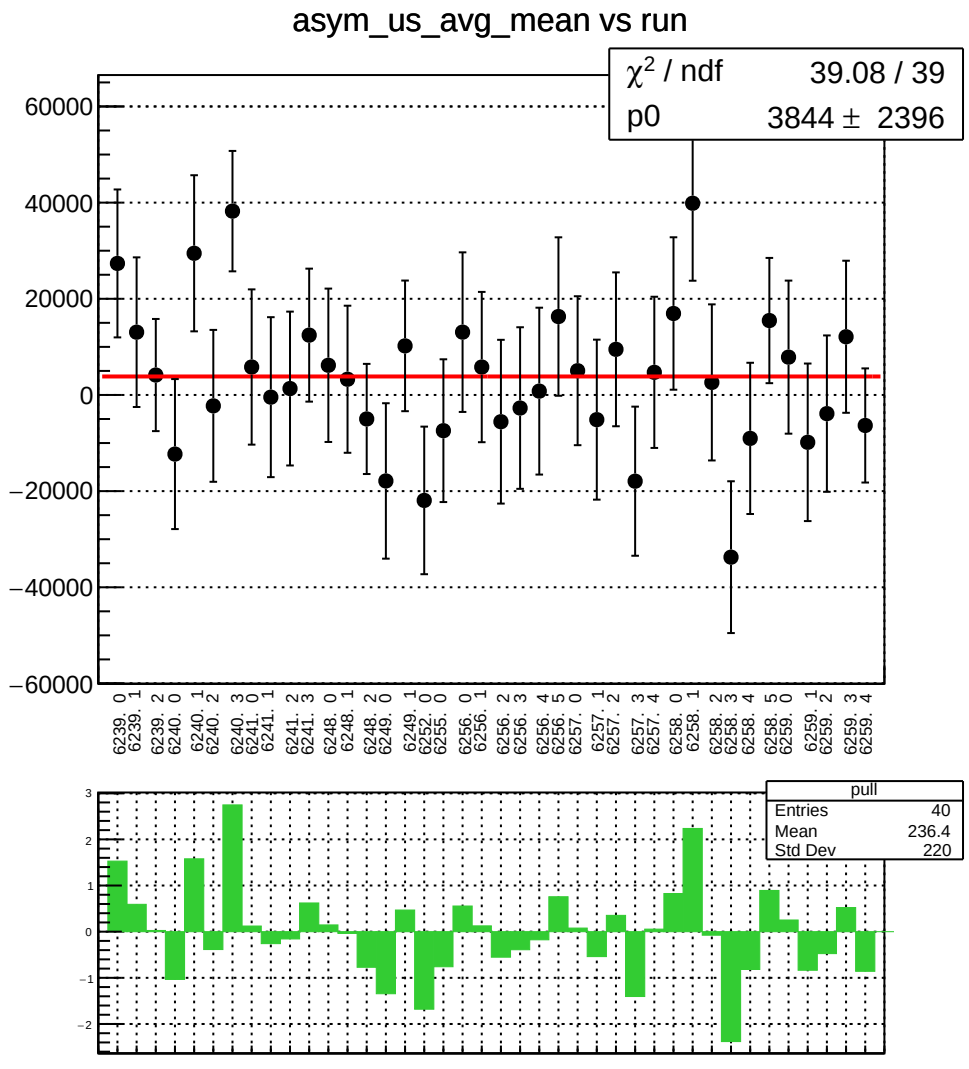

pull1D
Entries 40
Mean 0.01268
Std Dev 0.9974
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

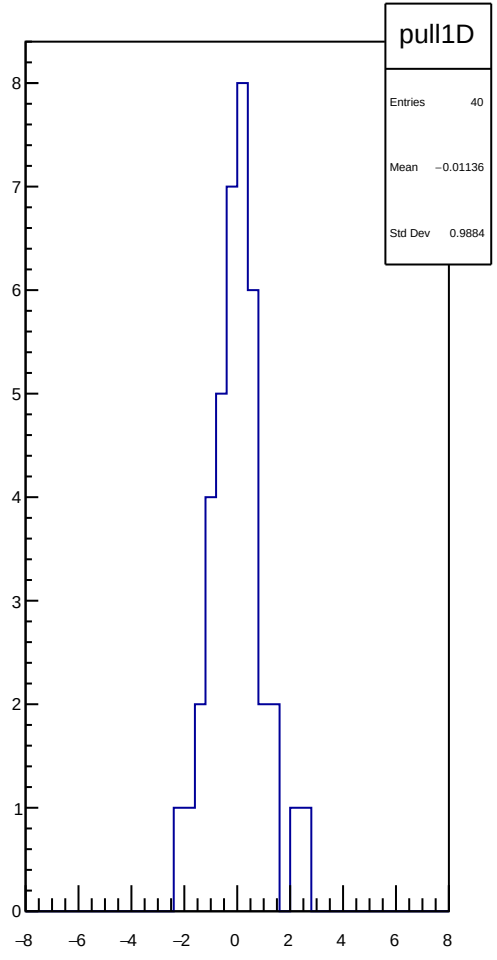

reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 62.71 / 39
p0 812.8 ± 0.9019
830
820
810
800
790
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

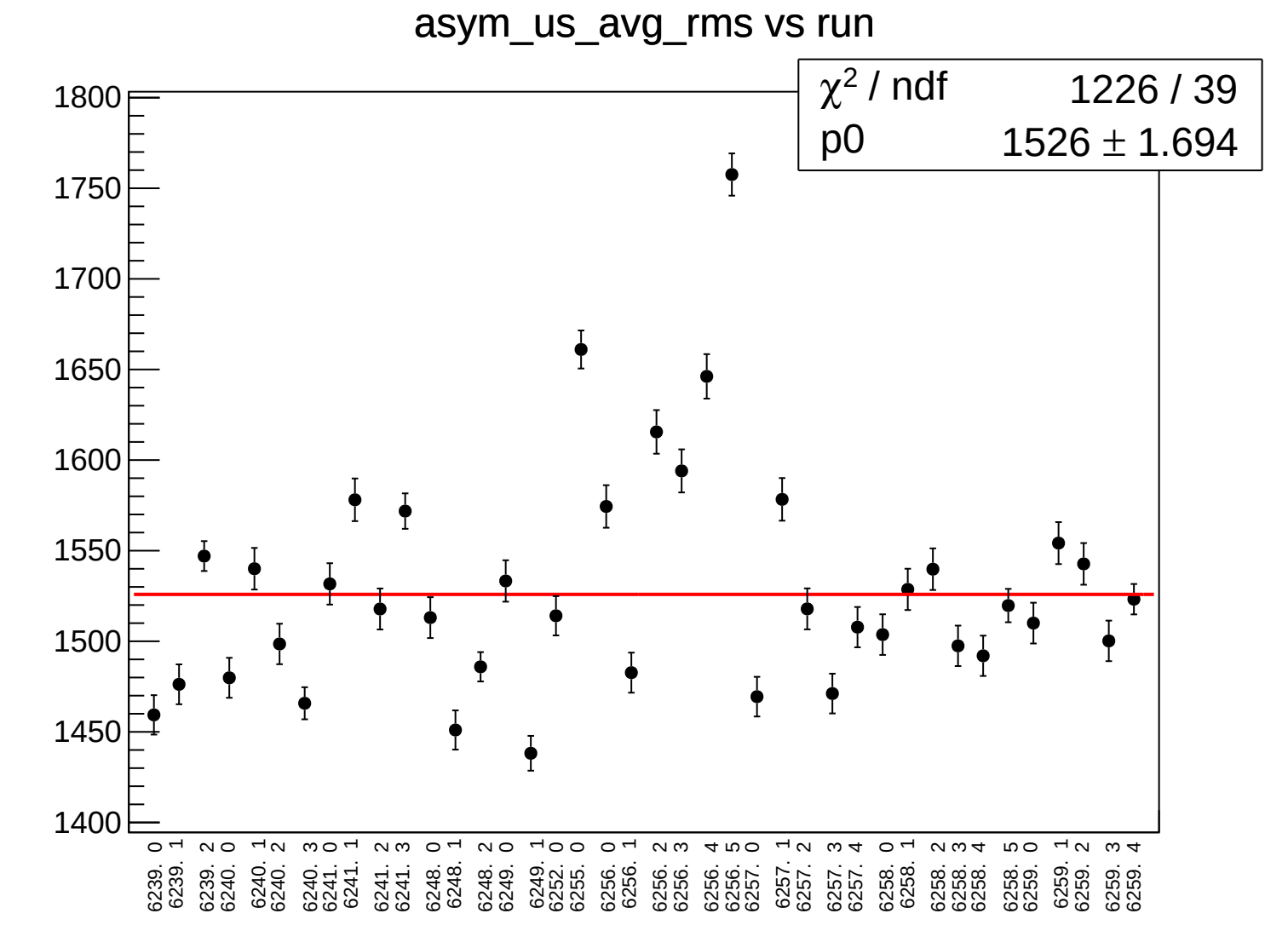

asym_us_avg_correction_mean vs run
χ² / ndf 44.84 / 39
p0 −1059 ± 2025
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 81.39
Std Dev 73.5
2
1
0
−1
−2
−3

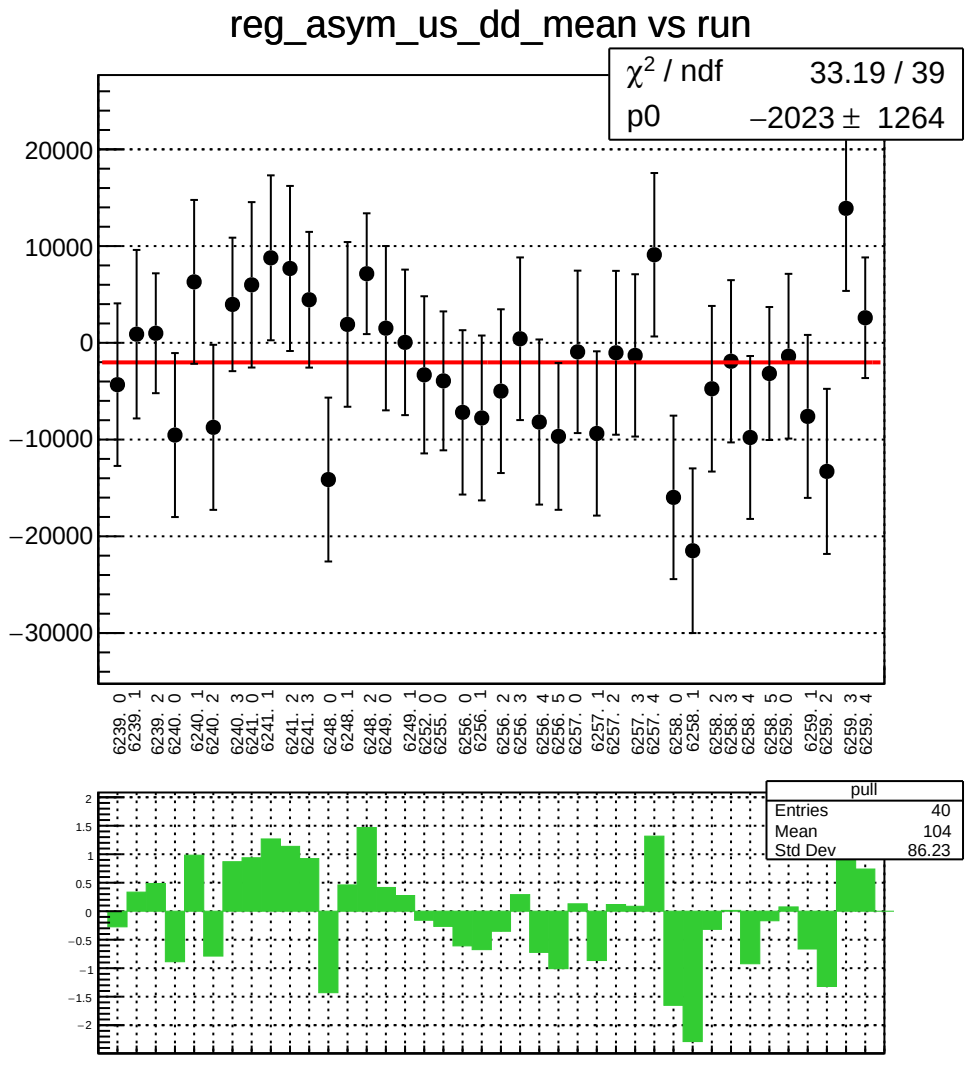

pull1D
Entries 40
Mean 0.01751
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

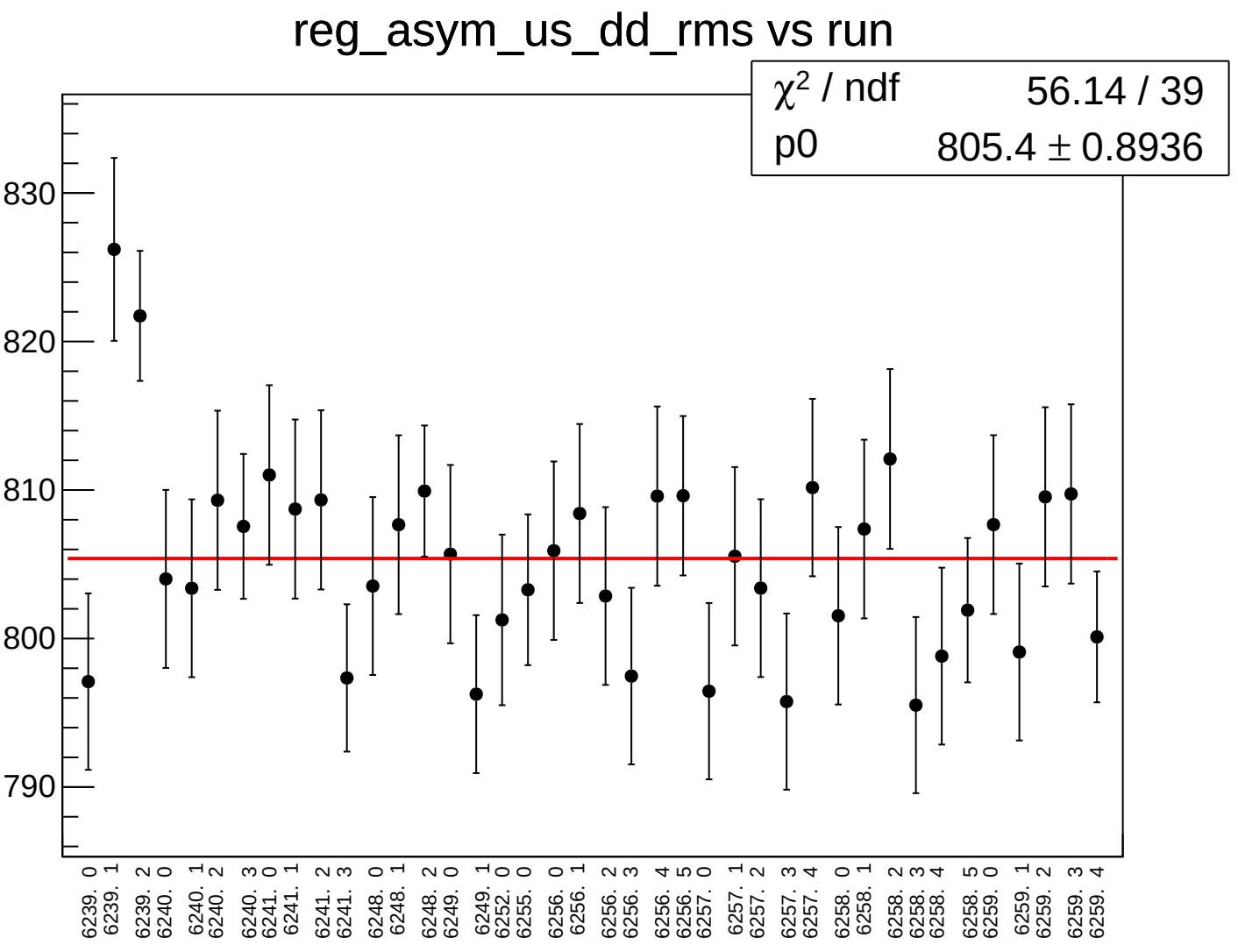

asym_us_avg_correction_rms vs run
χ² / ndf 2261 / 39
p0 1289 ± 1.432
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

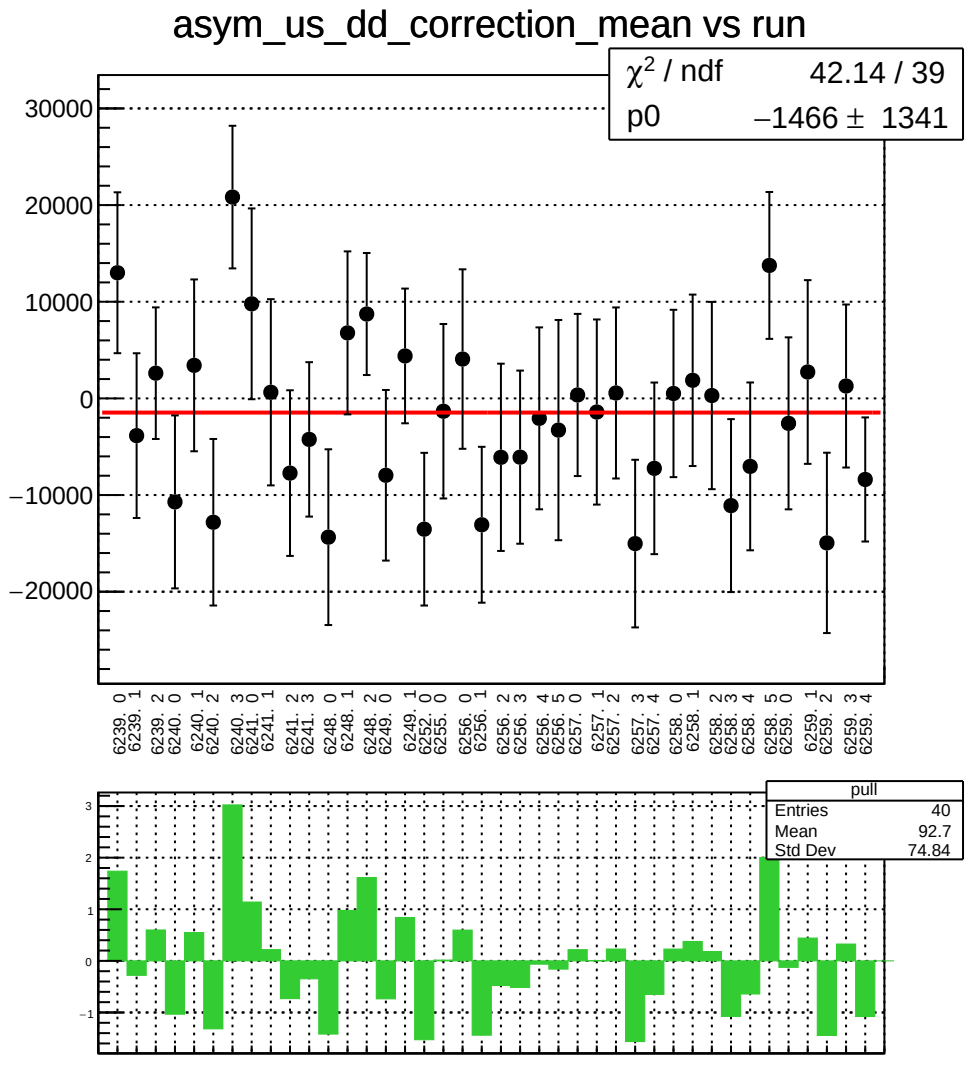

asym_us_avg_mean vs run
χ² / ndf 39.08 / 39
p0 3844 ± 2396
60000
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 236.4
Std Dev 220
3
2
1
0
−1
−2

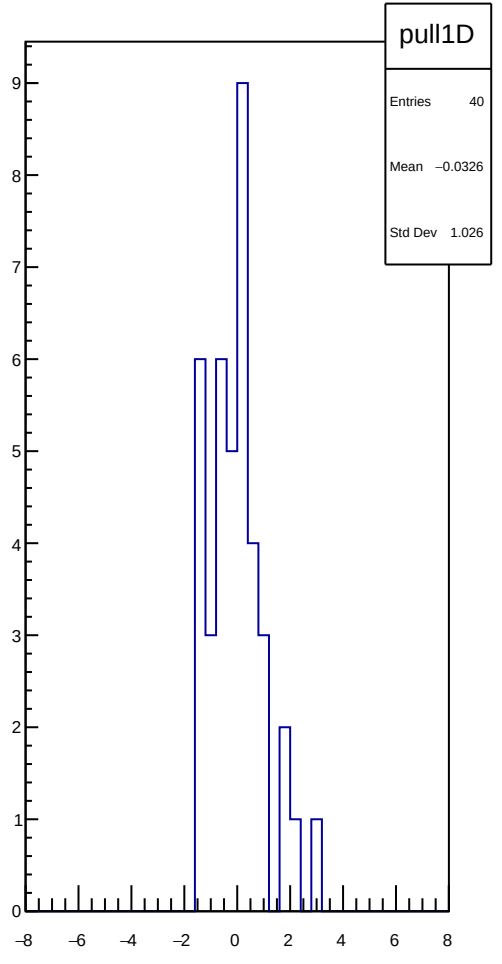

pull1D
Entries 40
Mean −0.01136
Std Dev 0.9884
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

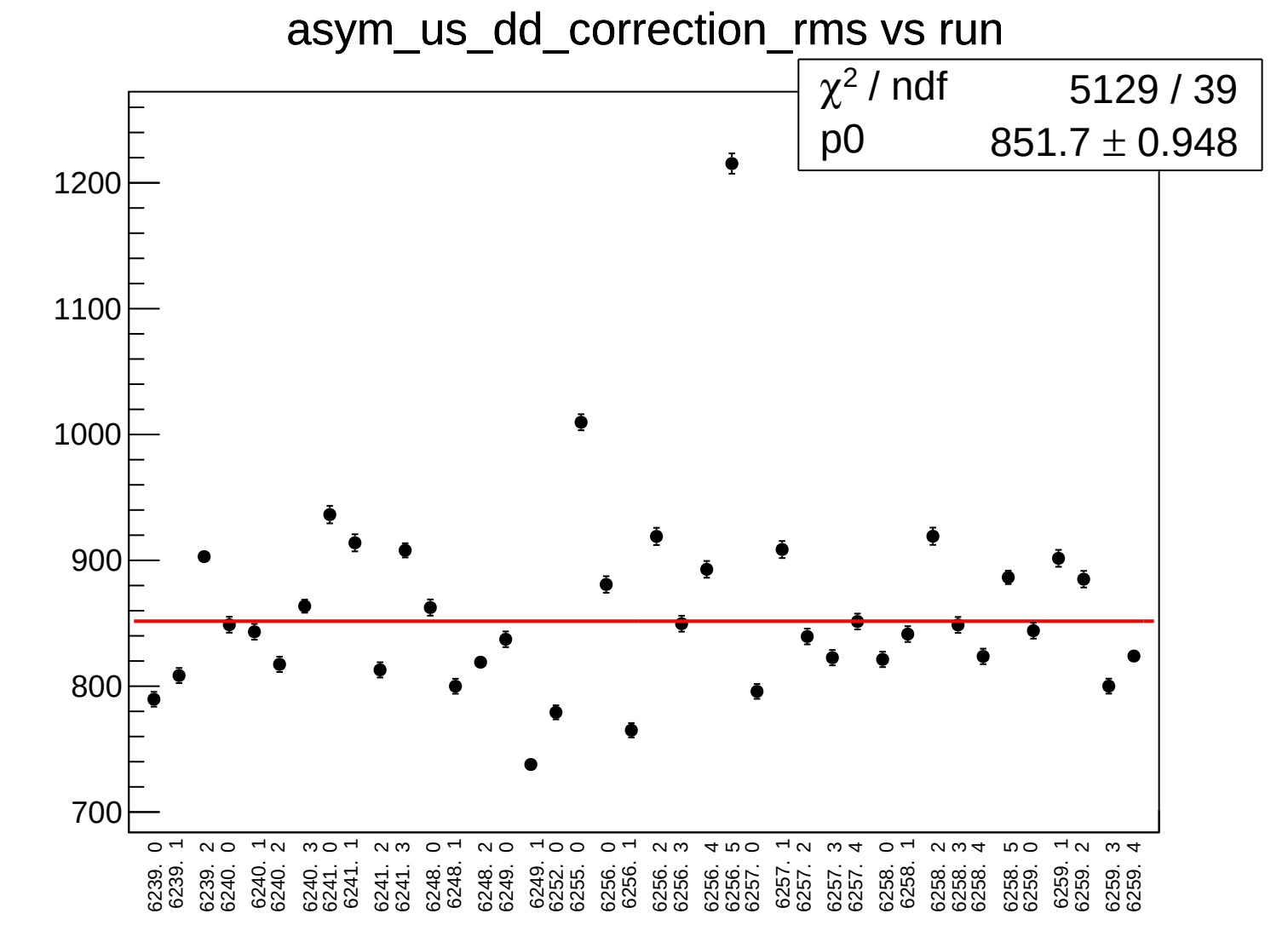

asym_us_avg_rms vs run
χ² / ndf 1226 / 39
p0 1526 ± 1.694
1800
1750
1700
1650
1600
1550
1500
1450
1400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

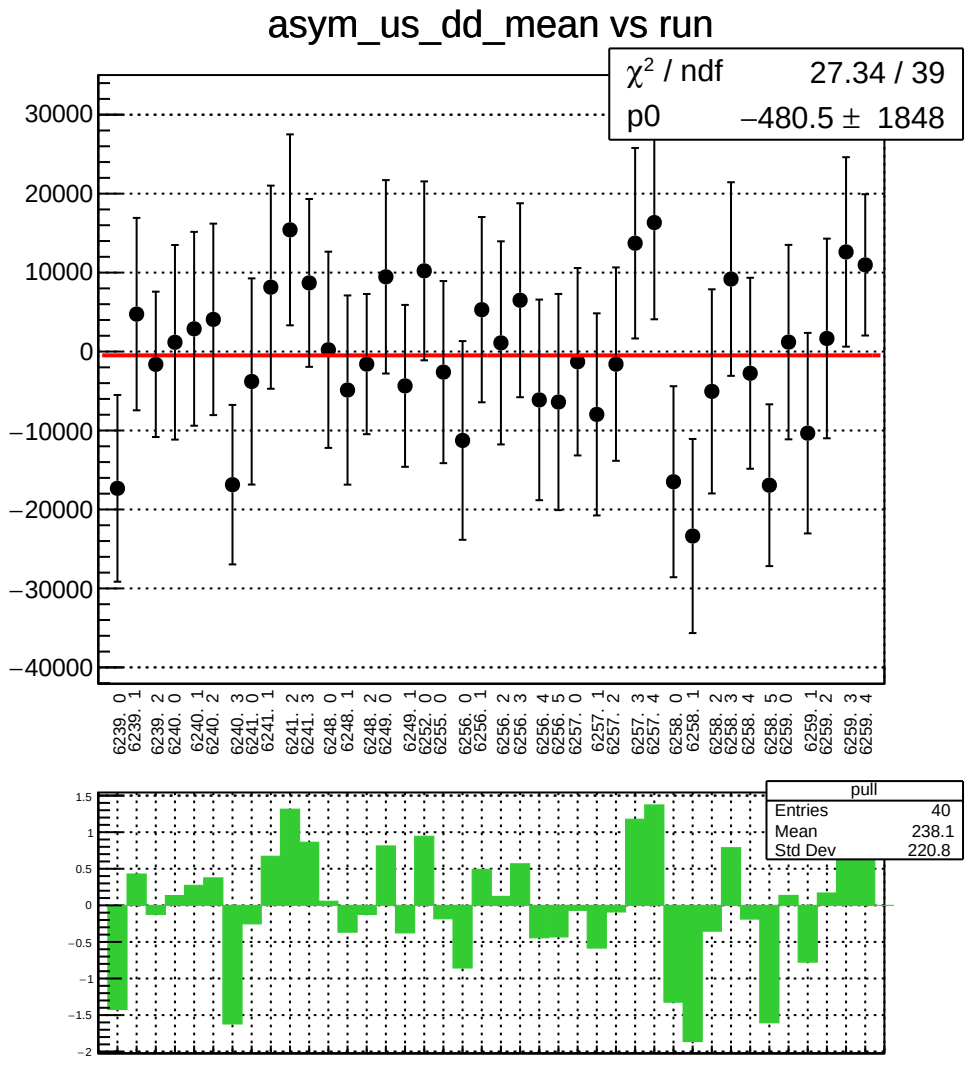

reg_asym_us_dd_mean vs run
χ² / ndf 33.19 / 39
p0 −2023 ± 1264
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 104
Std Dev 86.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean −0.02912
Std Dev 0.9104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

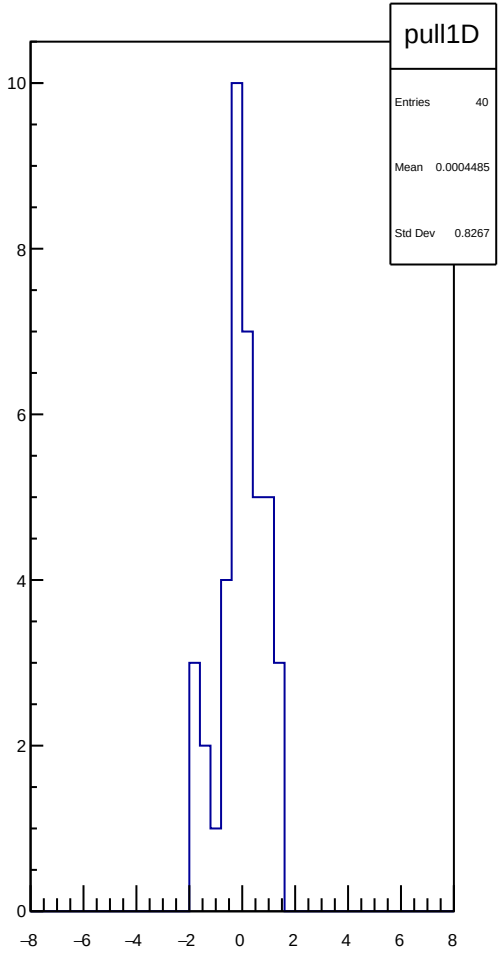

reg_asym_us_dd_rms vs run
χ² / ndf 56.14 / 39
p0 805.4 ± 0.8936
830
820
810
800
790
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

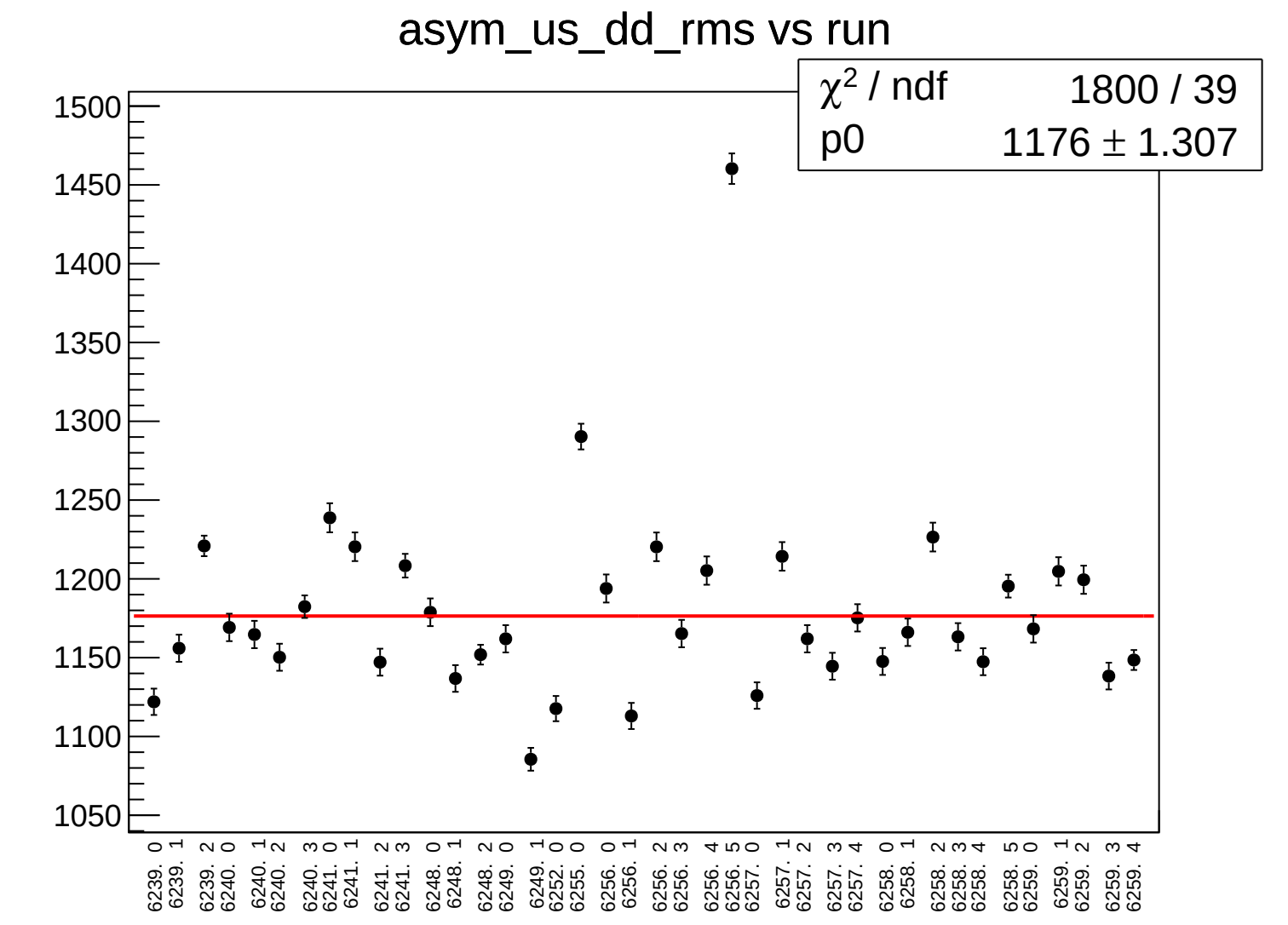

asym_us_dd_correction_mean vs run
χ² / ndf 42.14 / 39
p0 −1466 ± 1341
30000
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 92.7
Std Dev 74.84
3
2
1
0
−1

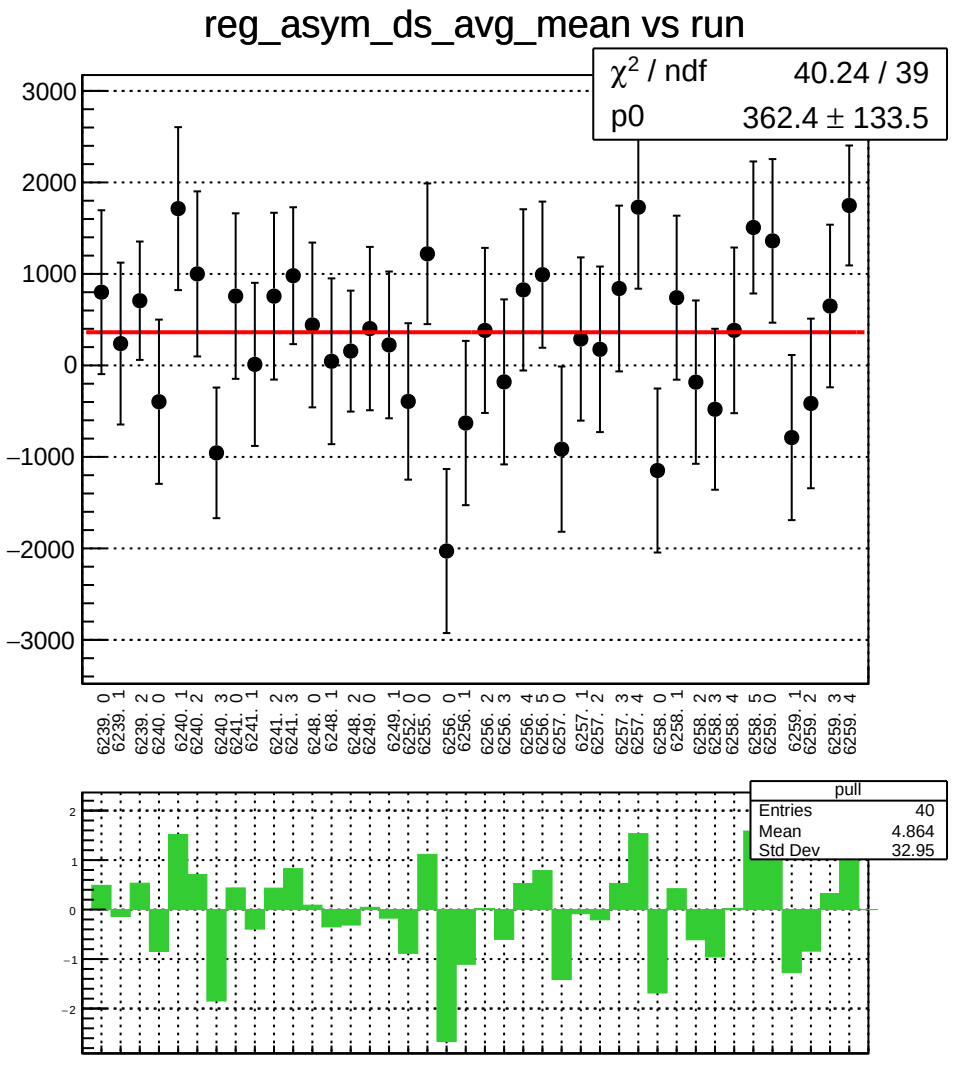

pull1D
Entries 40
Mean −0.0326
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

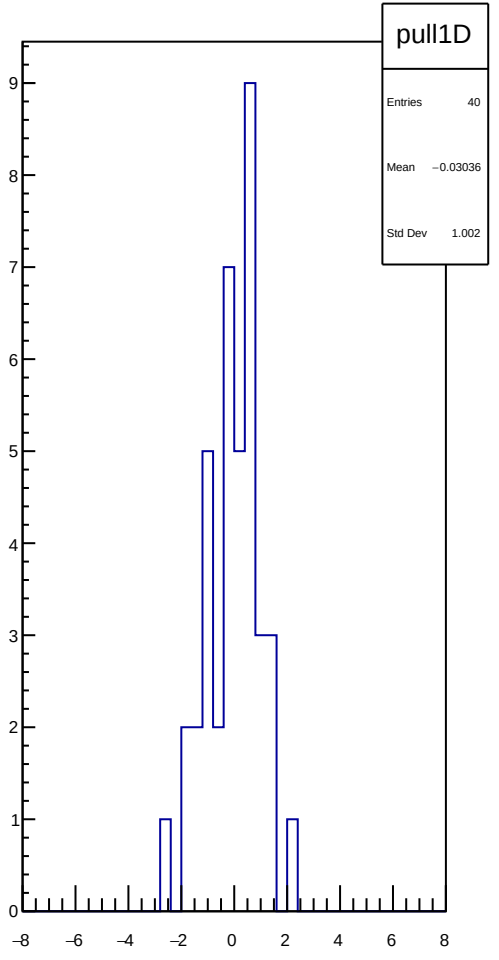

asym_us_dd_correction_rms vs run
χ² / ndf 5129 / 39
p0 851.7 ± 0.948
1200
1100
1000
900
800
700
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

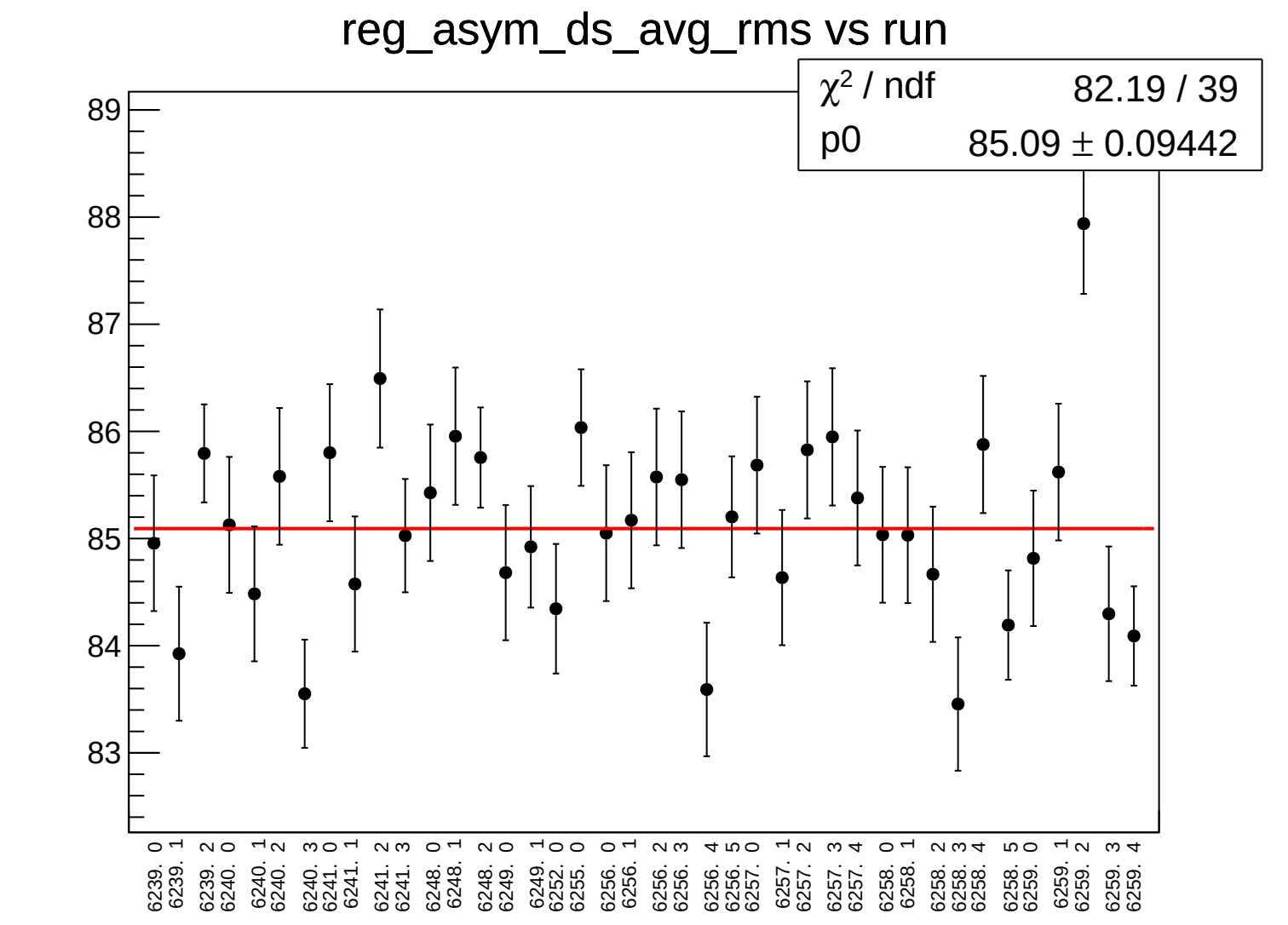

asym_us_dd_mean vs run
χ² / ndf 27.34 / 39
p0 −480.5 ± 1848
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 238.1
Std Dev 220.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

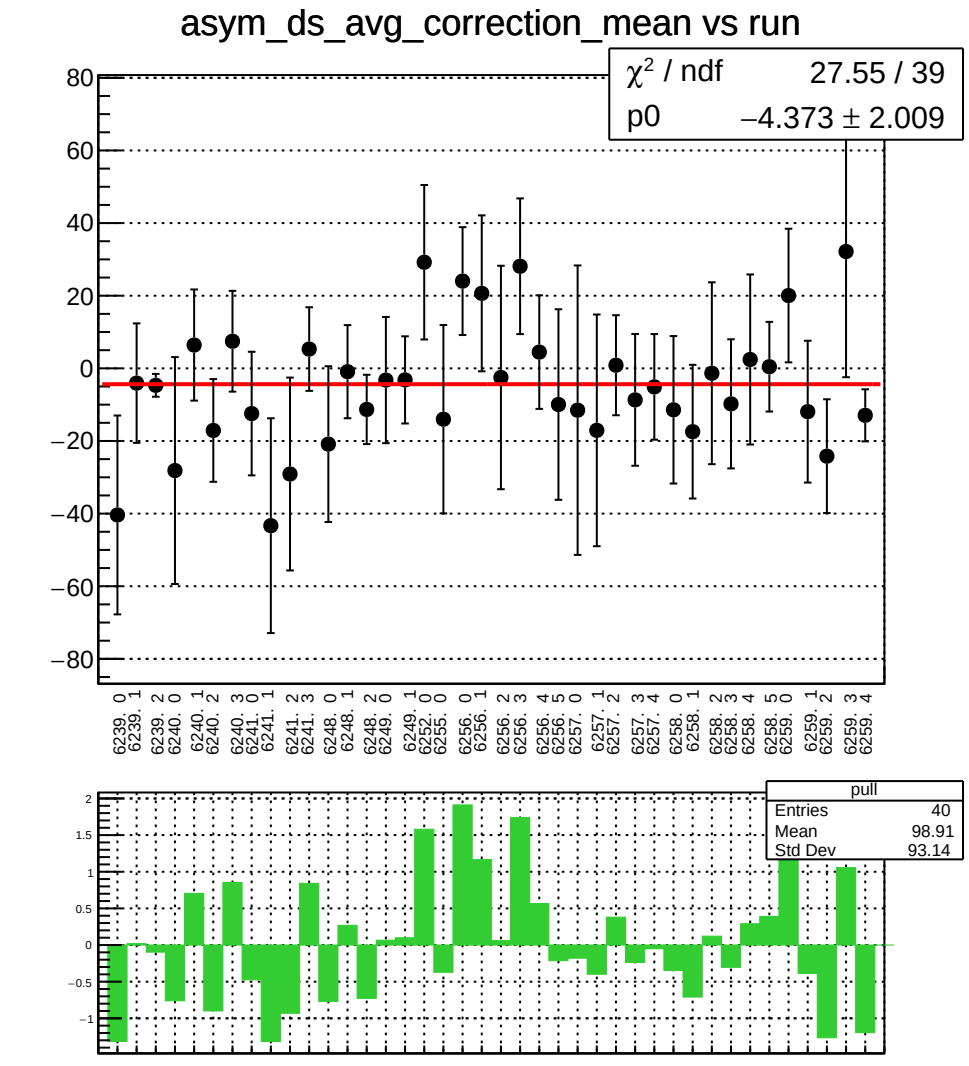

pull1D
Entries 40
Mean 0.0004485
Std Dev 0.8267
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

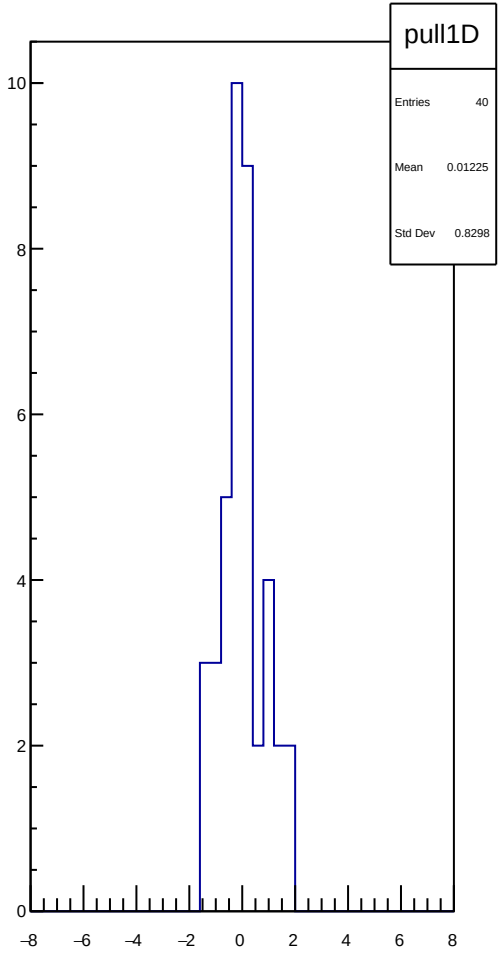

asym_us_dd_rms vs run
$\chi^2$ / ndf 1800 / 39
p0 1176 ± 1.307
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

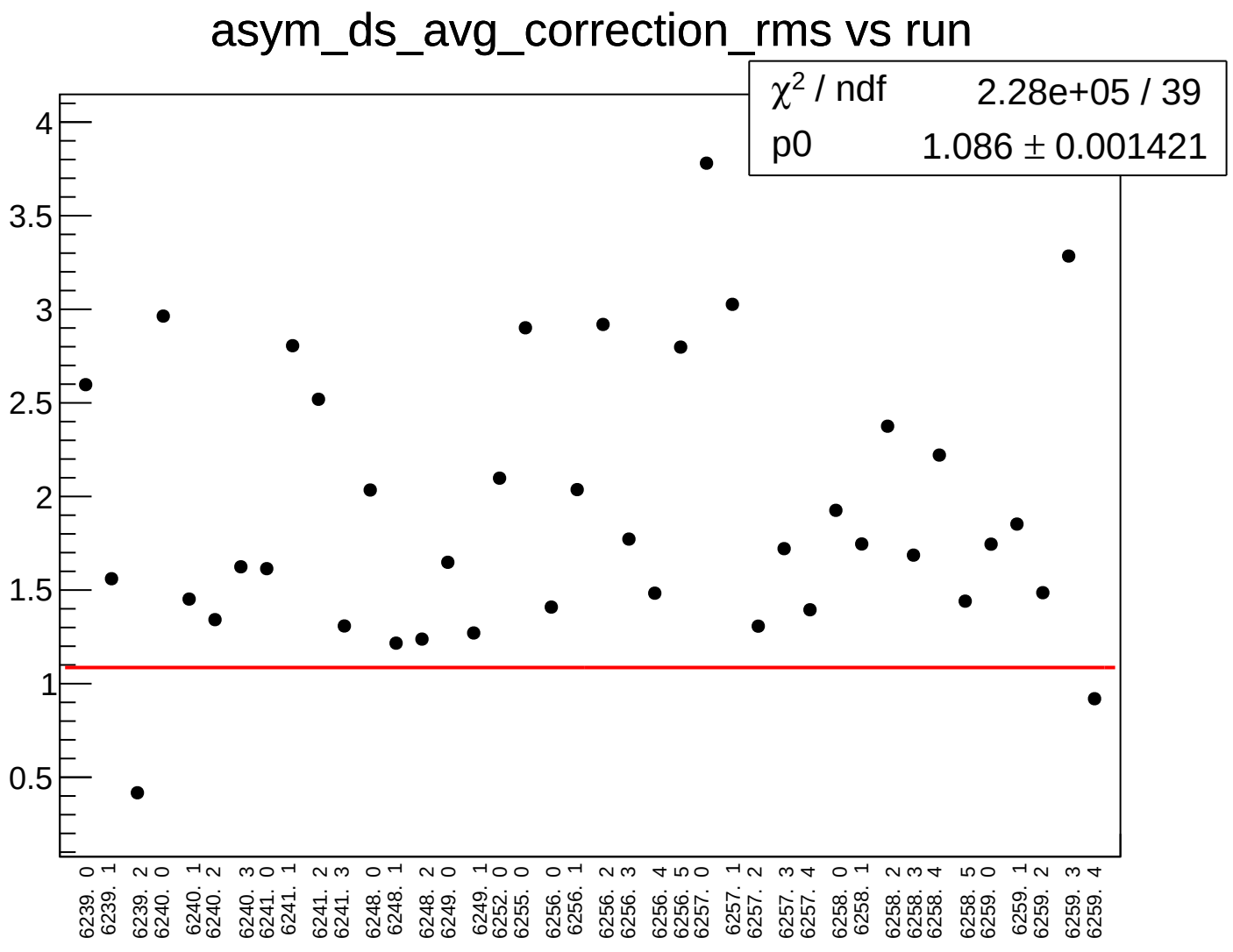

reg_asym_ds_avg_mean vs run
χ² / ndf 40.24 / 39
p0 362.4 ± 133.5
3000
2000
1000
0
−1000
−2000
−3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 4.864
Std Dev 32.95
2
1
0
−1
−2

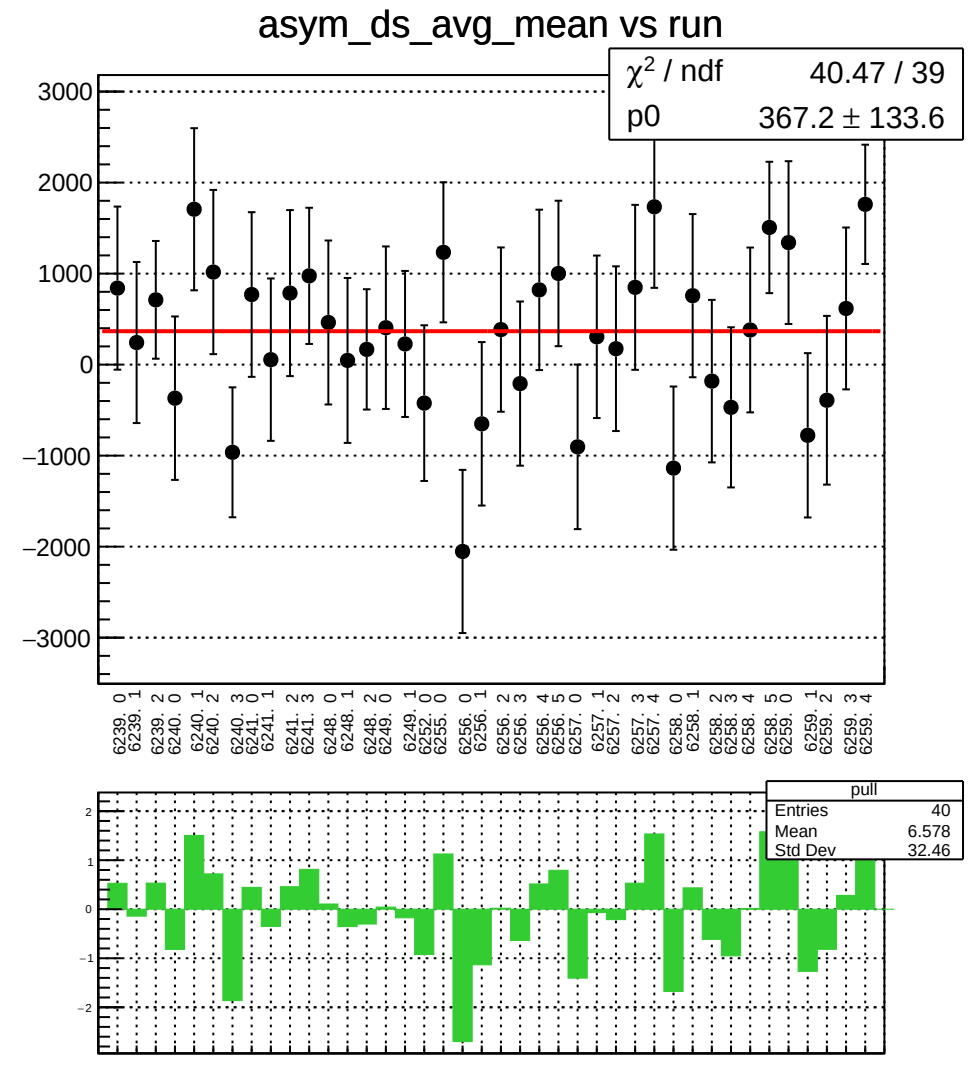

pull1D
Entries 40
Mean −0.03036
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

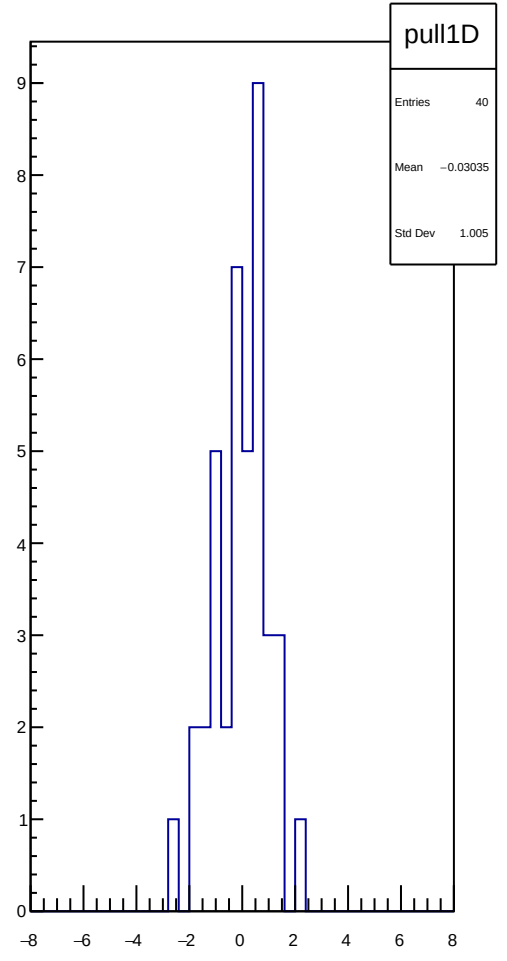

reg_asym_ds_avg_rms vs run
χ² / ndf 82.19 / 39
p0 85.09 ± 0.09442
89
88
87
86
85
84
83
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

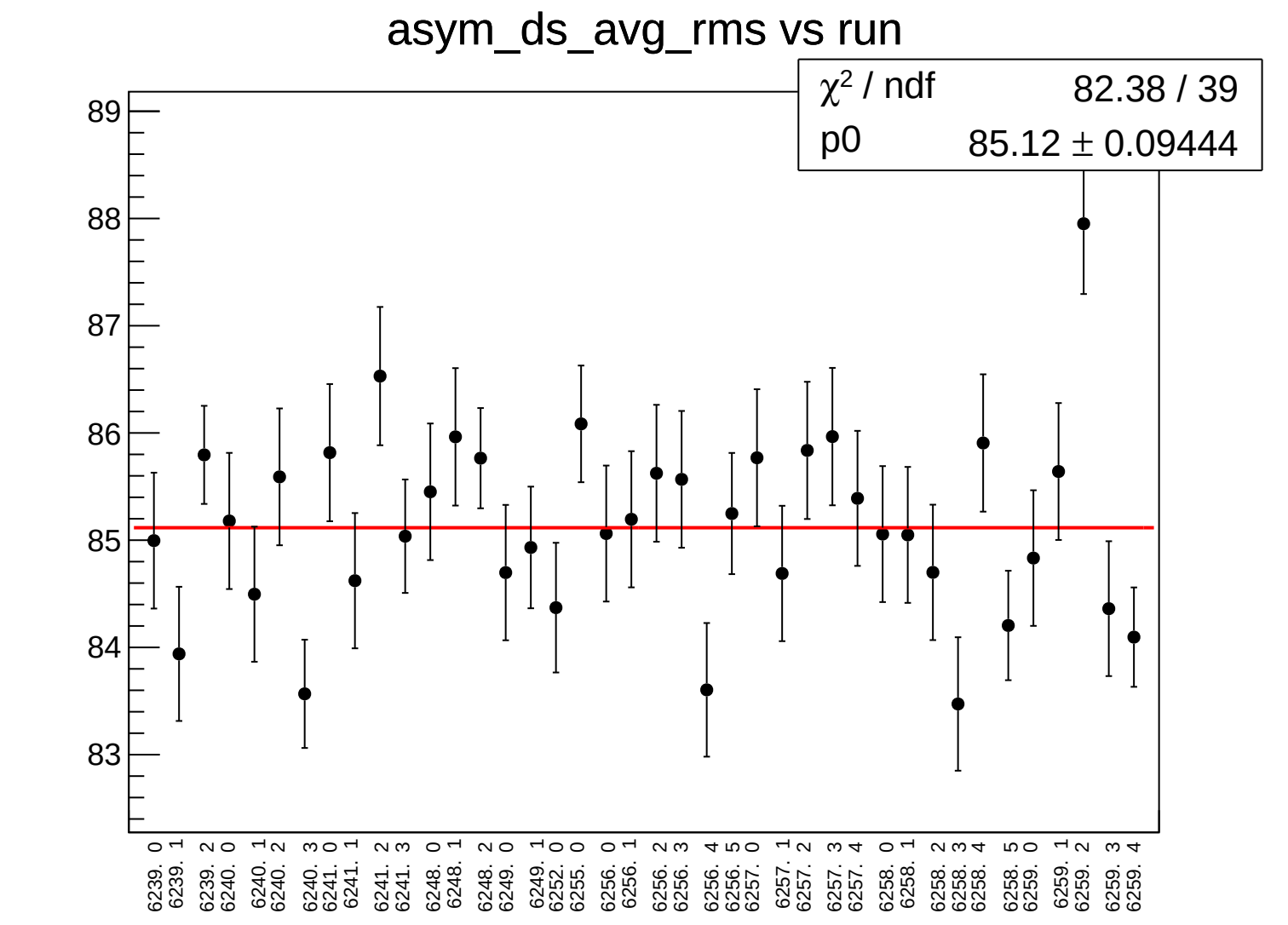

asym_ds_avg_correction_mean vs run
χ² / ndf 27.55 / 39
p0 −4.373 ± 2.009
pull
Entries 40
Mean 98.91
Std Dev 93.14

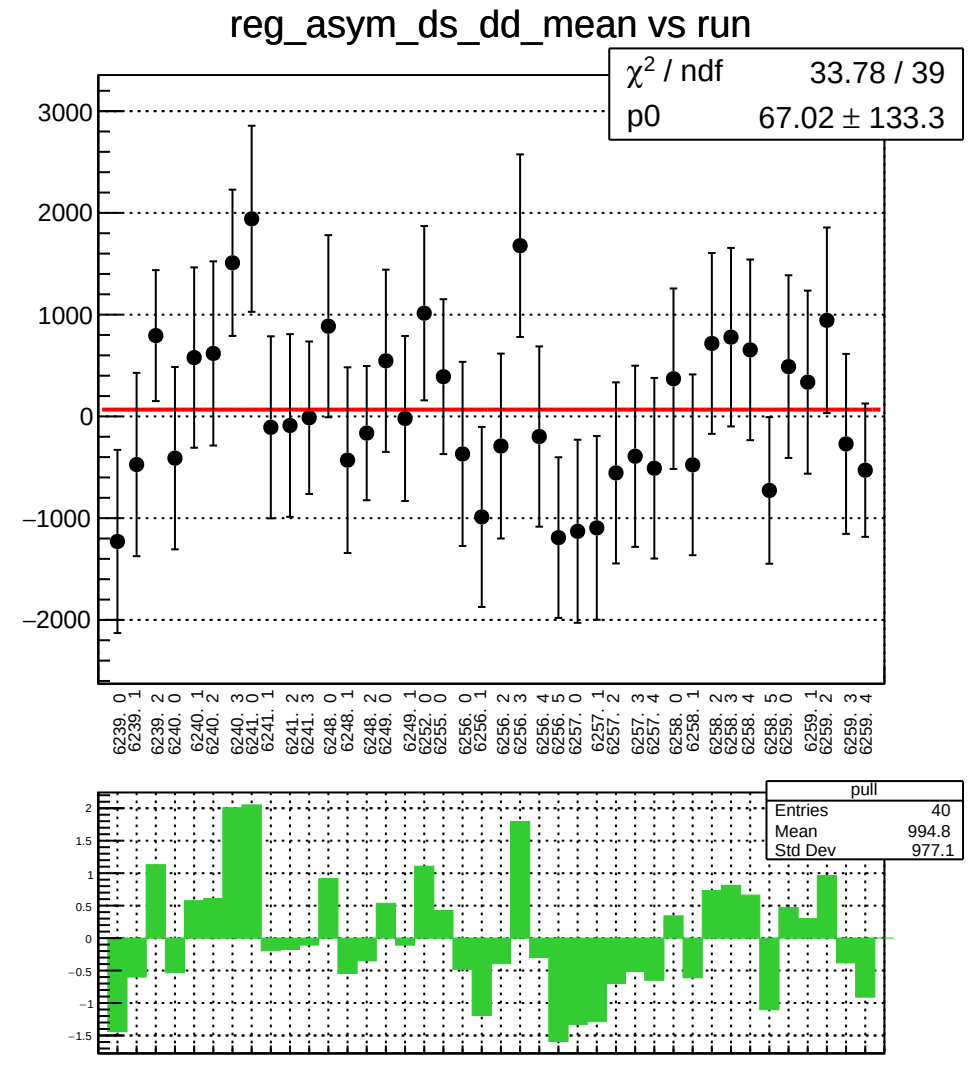

pull1D
Entries 40
Mean 0.01225
Std Dev 0.8298

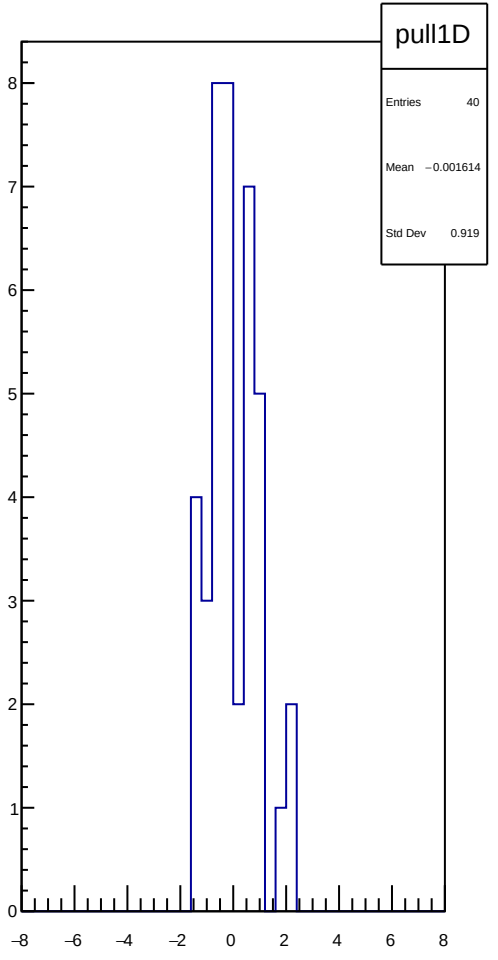

asym_ds_avg_correction_rms vs run
$\chi^2$ / ndf 2.28e+05 / 39
p0 1.086 ± 0.001421
4
3.5
3
2.5
2
1.5
1
0.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

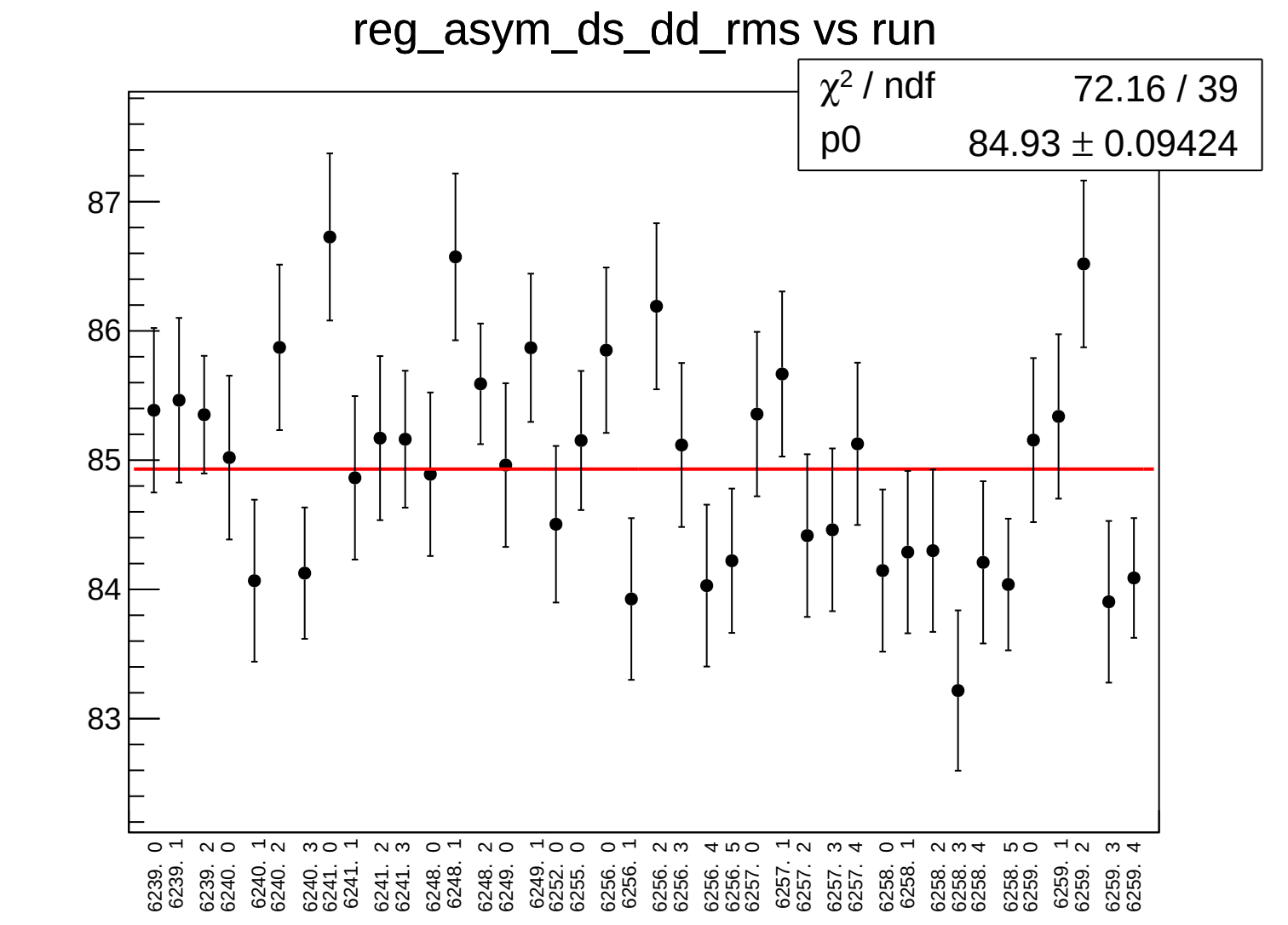

asym_ds_avg_mean vs run
$\chi^2$ / ndf 40.47 / 39
p0 367.2 ± 133.6
3000
2000
1000
0
−1000
−2000
−3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 6.578
Std Dev 32.46
2
1
0
−1
−2

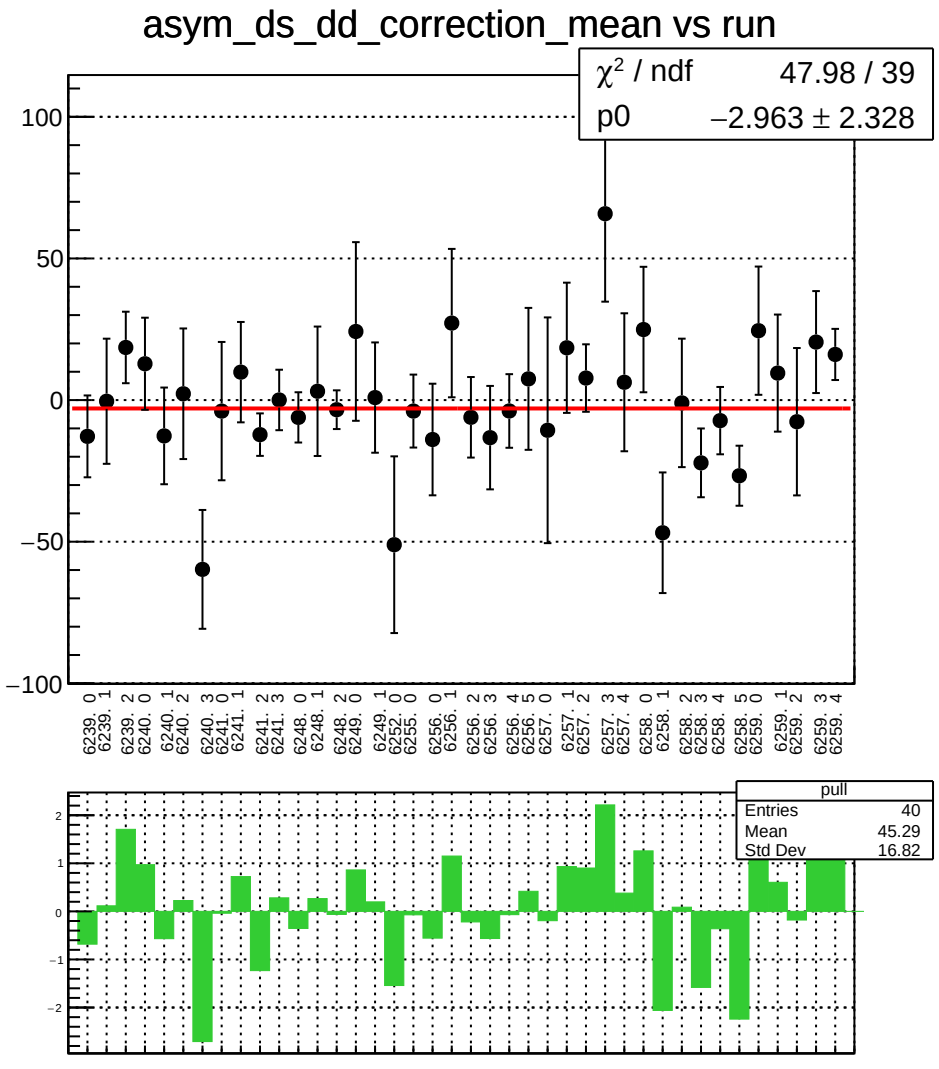

pull1D
Entries 40
Mean −0.03035
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

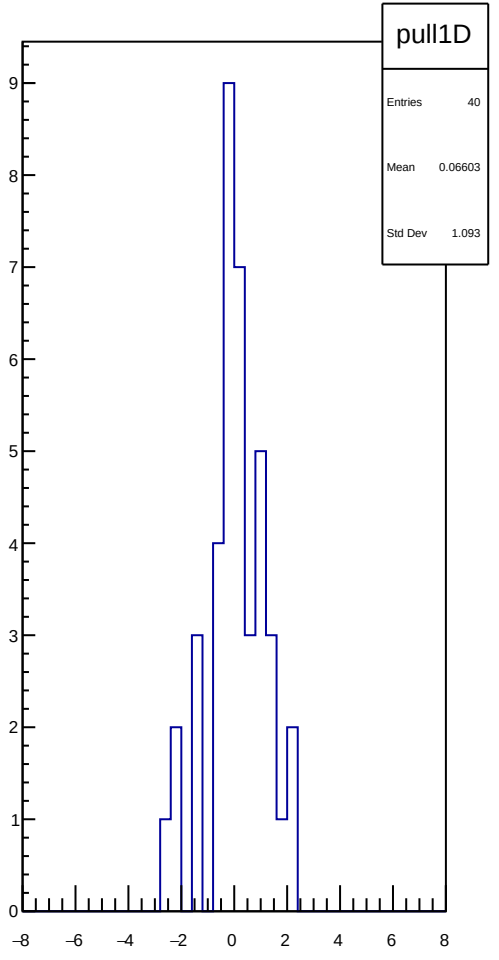

asym_ds_avg_rms vs run
χ² / ndf 82.38 / 39
p0 85.12 ± 0.09444
89
88
87
86
85
84
83
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

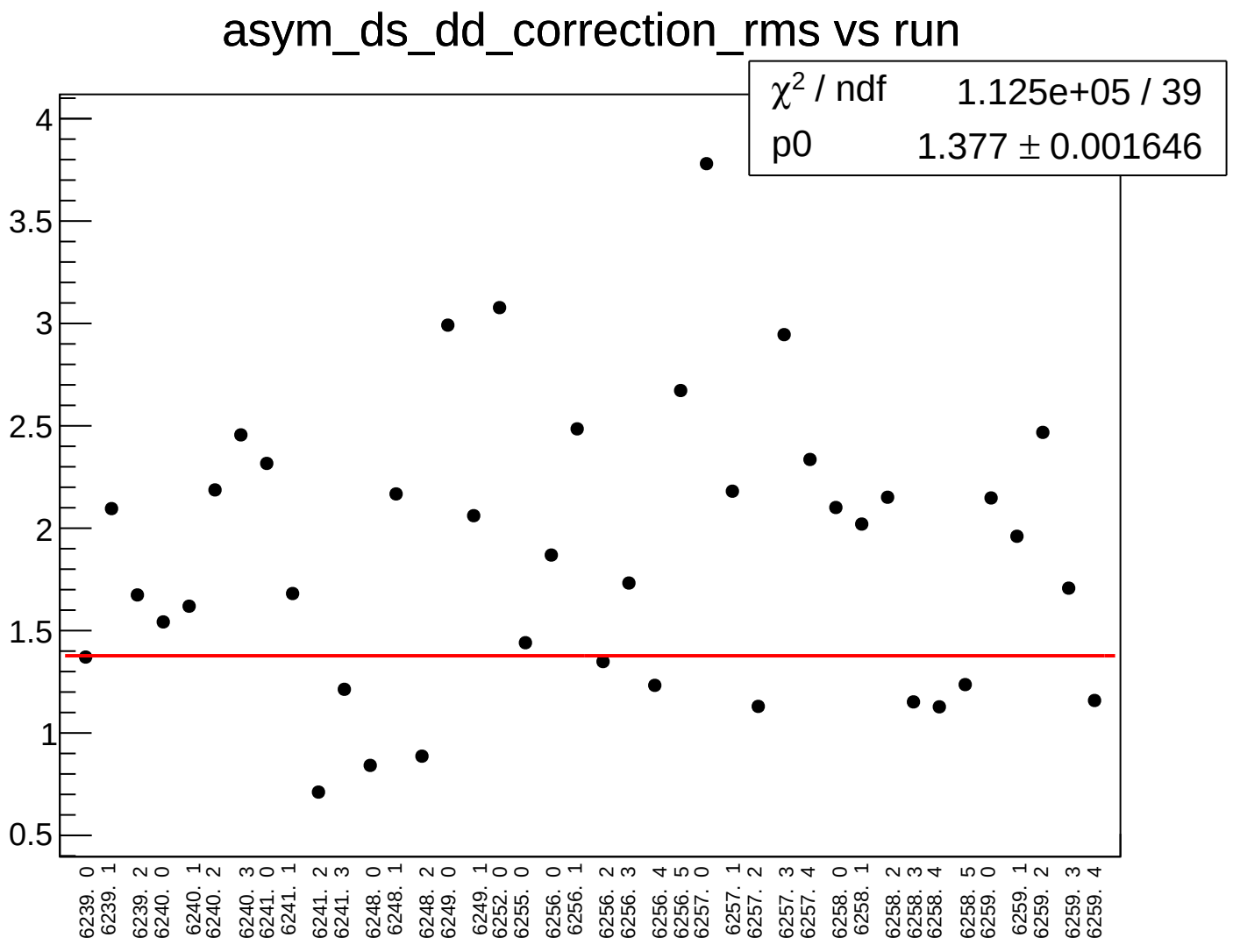

reg_asym_ds_dd_mean vs run
$\chi^2$ / ndf 33.78 / 39
p0 67.02 ± 133.3
3000
2000
1000
0
−1000
−2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 994.8
Std Dev 977.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

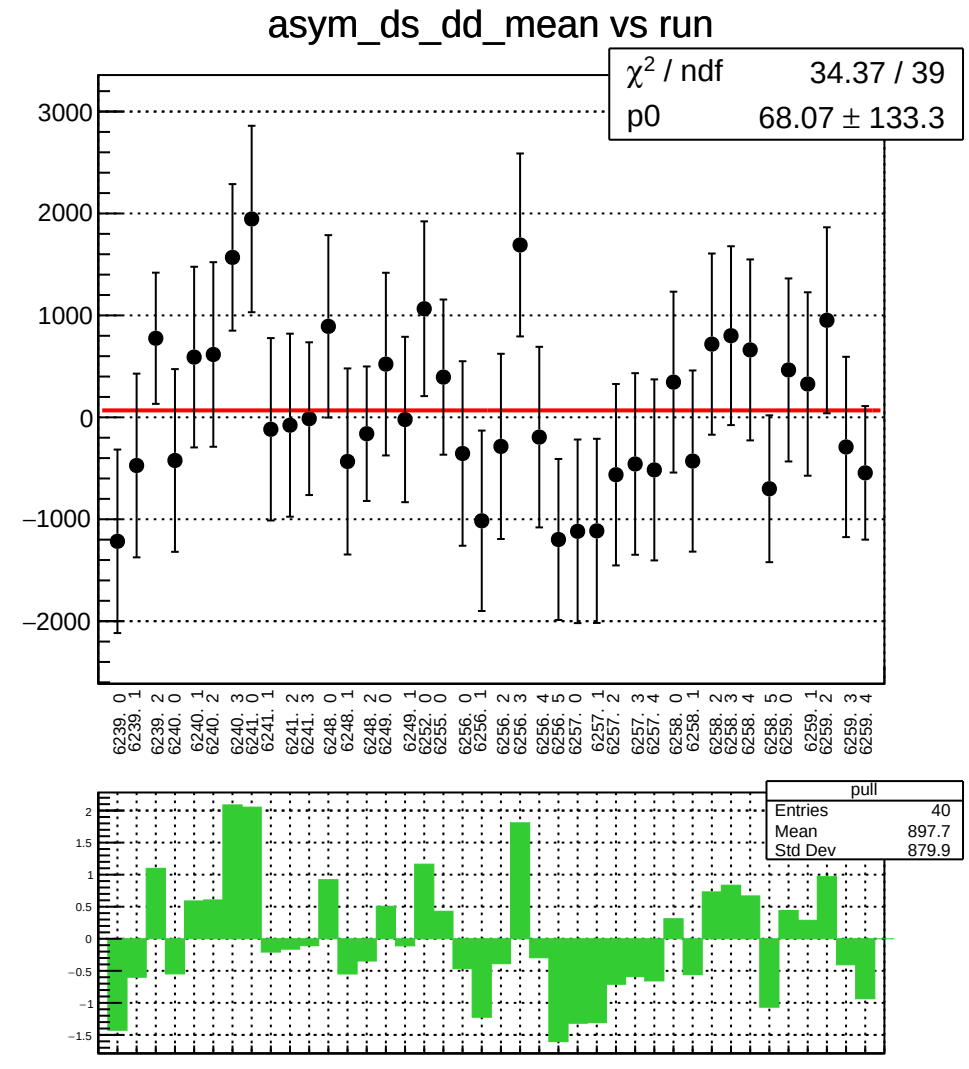

pull1D
Entries 40
Mean −0.001614
Std Dev 0.919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

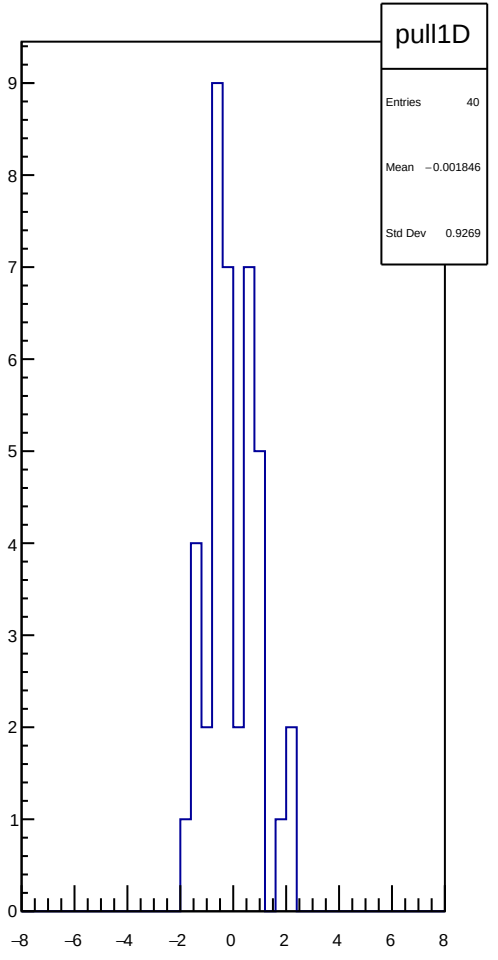

reg_asym_ds_dd_rms vs run
χ² / ndf 72.16 / 39
p0 84.93 ± 0.09424
87
86
85
84
83
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

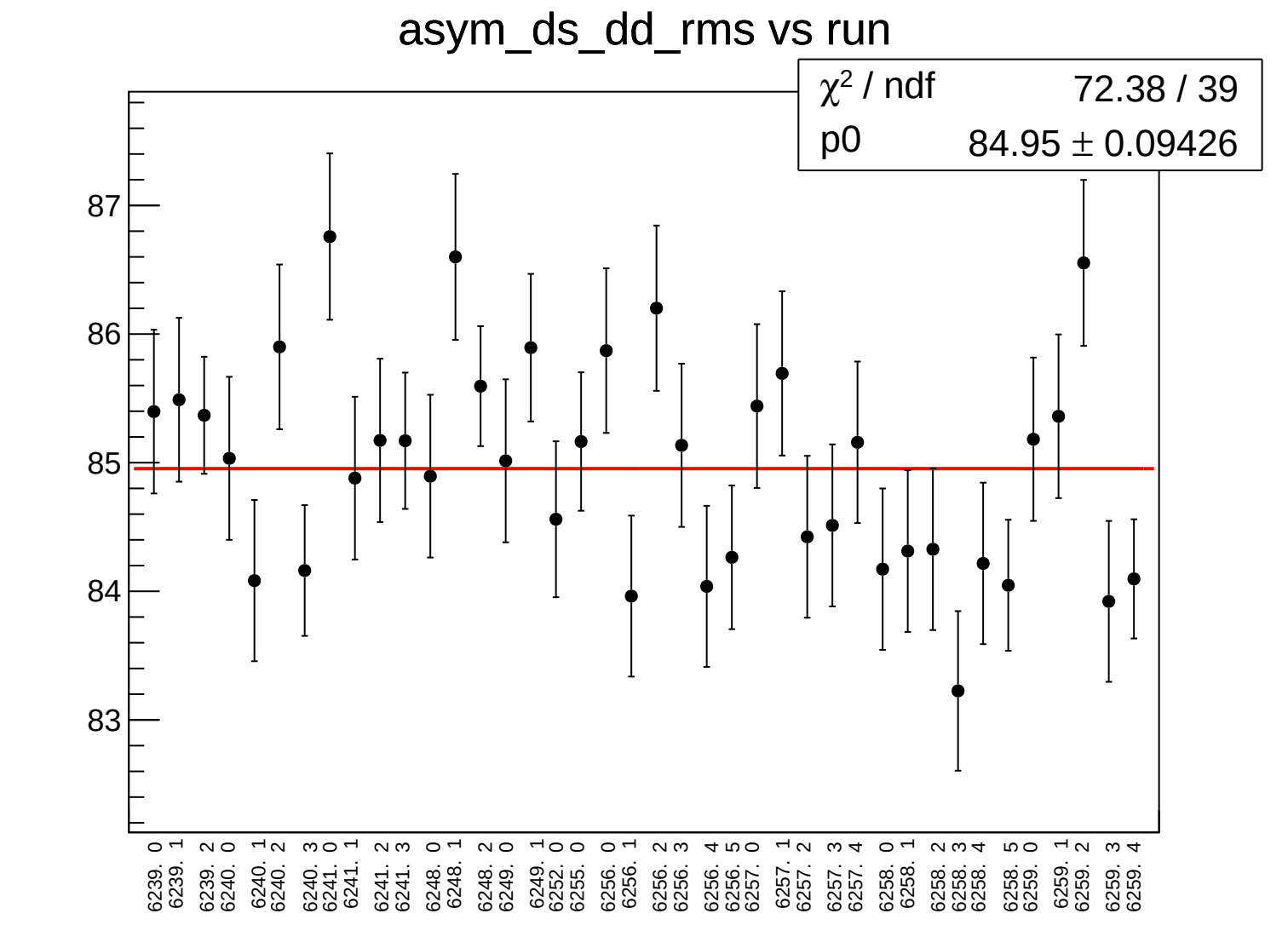

asym_ds_dd_correction_mean vs run
χ² / ndf 47.98 / 39
p0 −2.963 ± 2.328
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.29
Std Dev 16.82
2
1
0
−1
−2

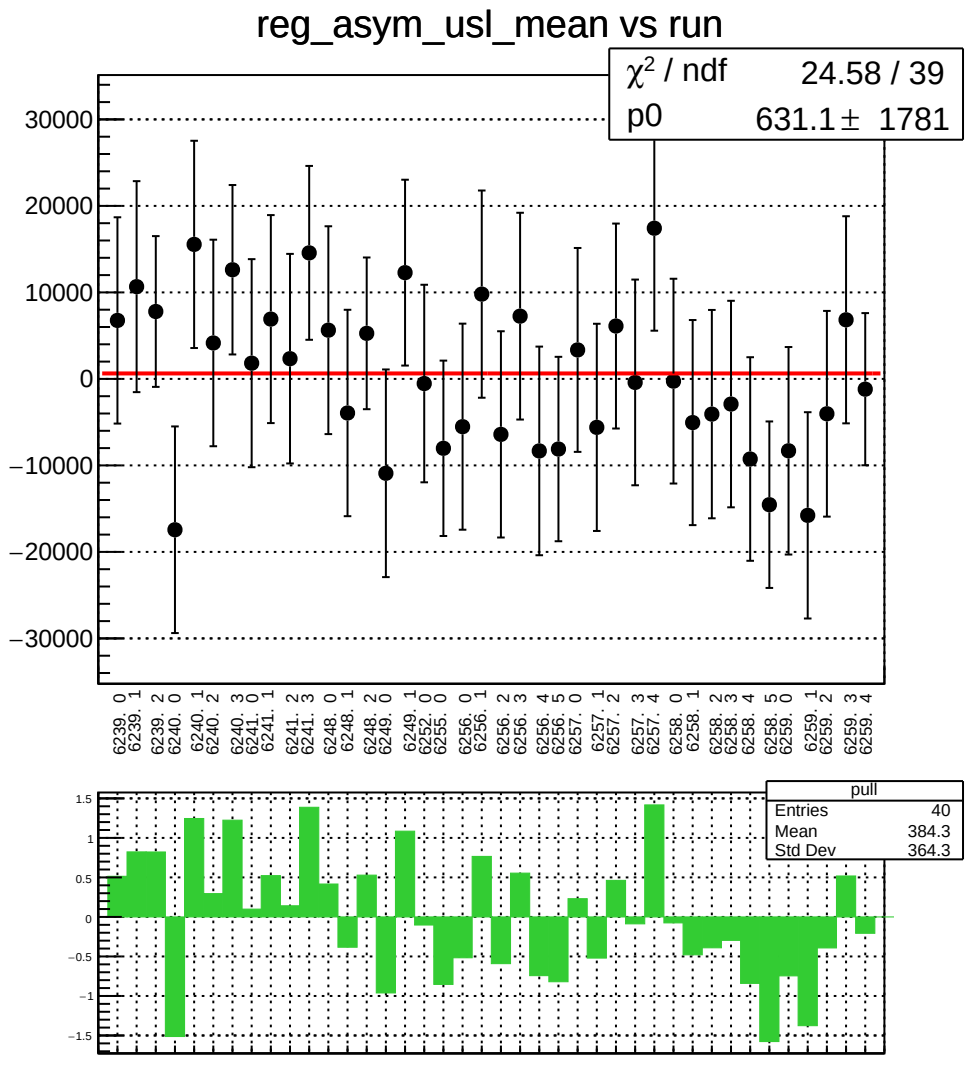

pull1D
Entries 40
Mean 0.06603
Std Dev 1.093
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

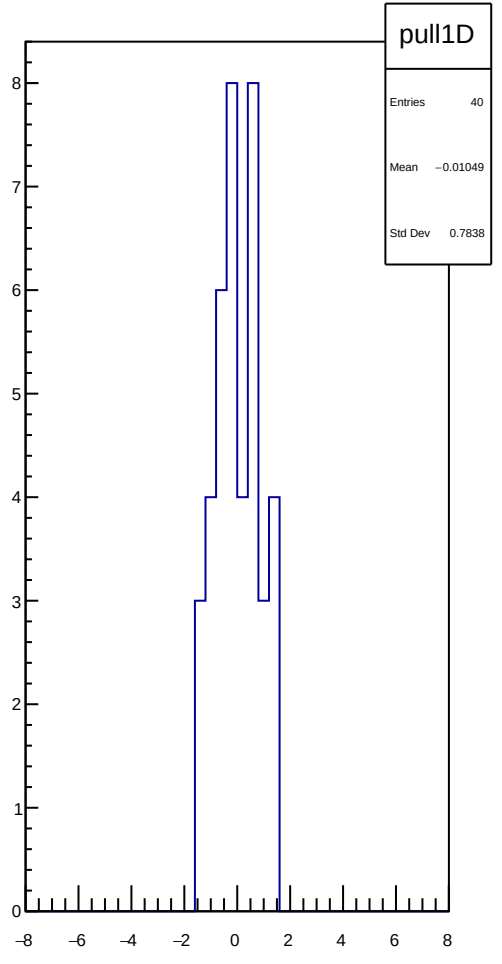

asym_ds_dd_correction_rms vs run
χ² / ndf 1.125e+05 / 39
p0 1.377 ± 0.001646
4
3.5
3
2.5
2
1.5
1
0.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

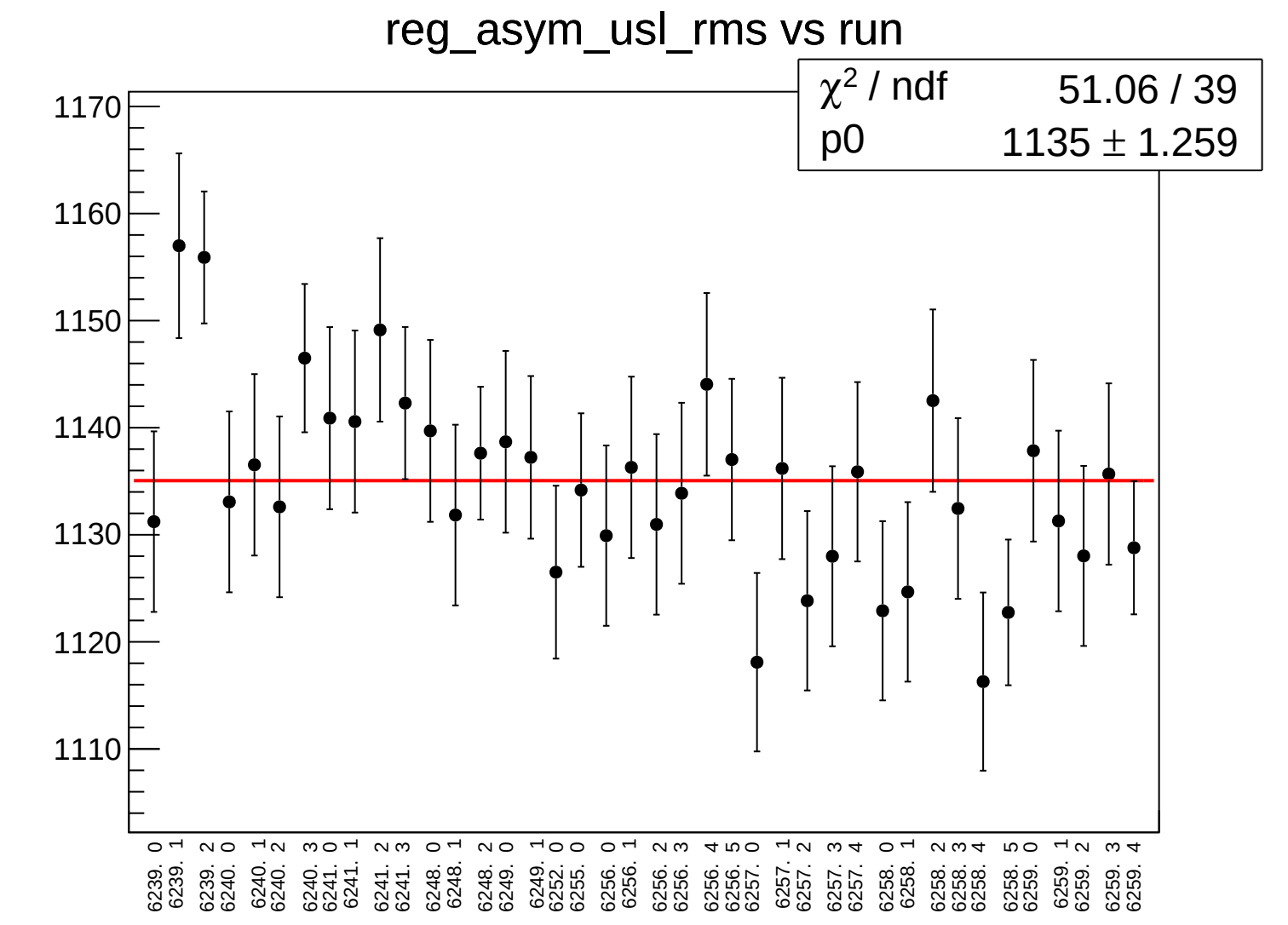

asym_ds_dd_mean vs run
χ² / ndf 34.37 / 39
p0 68.07 ± 133.3
3000
2000
1000
0
−1000
−2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 897.7
Std Dev 879.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

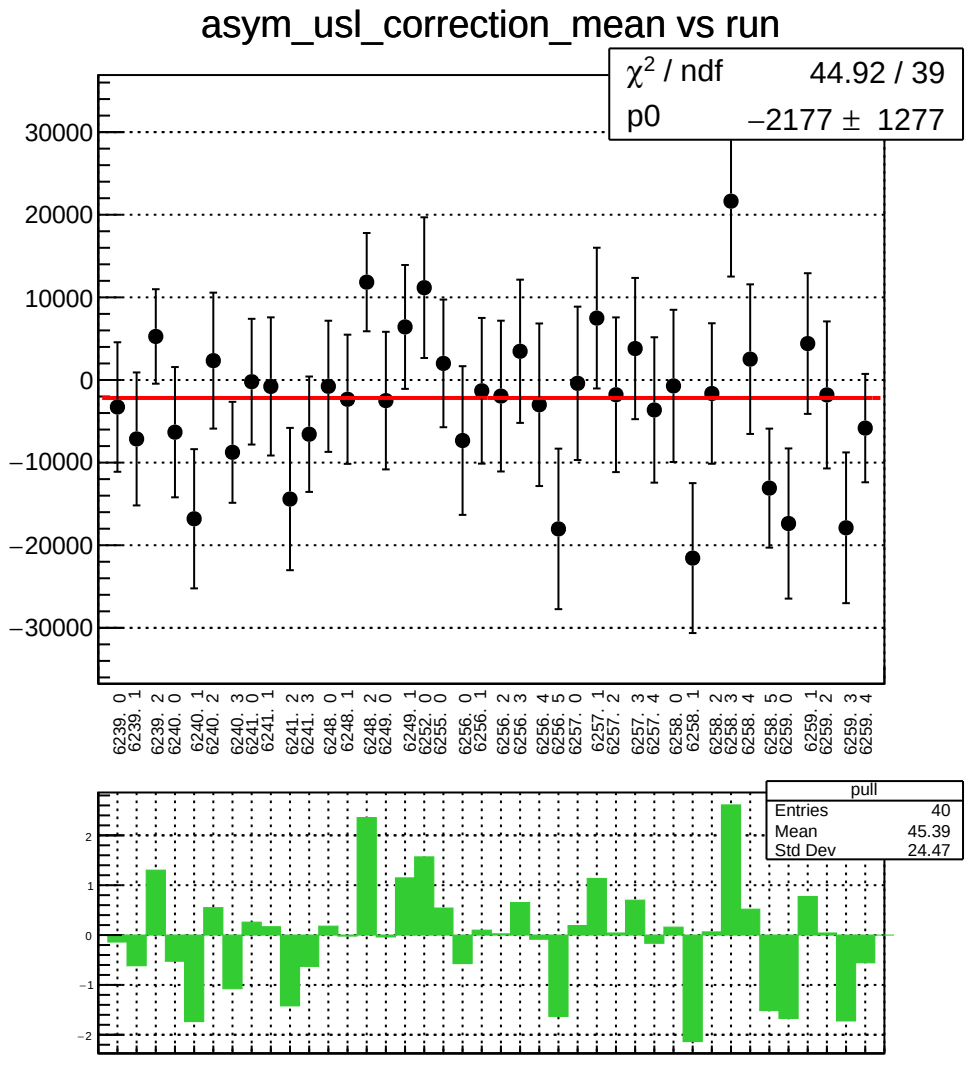

pull1D
Entries 40
Mean −0.001846
Std Dev 0.9269
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

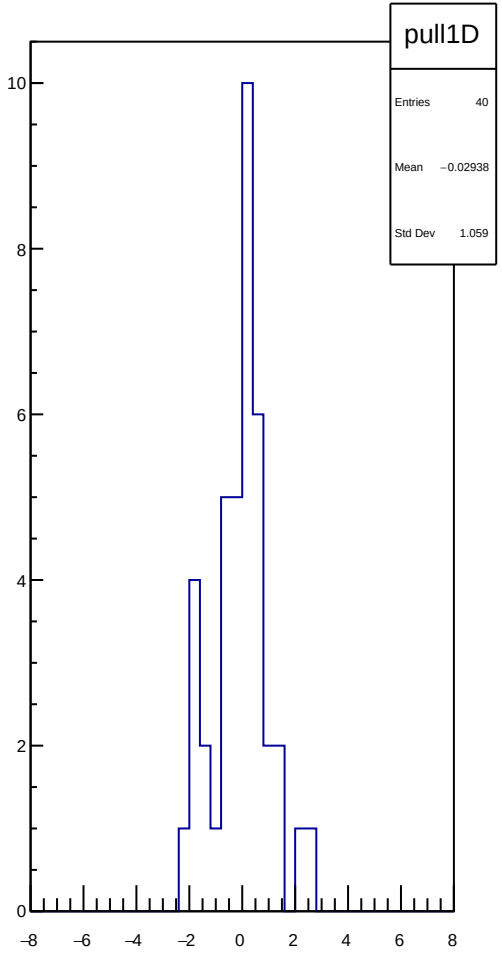

asym_ds_dd_rms vs run
$\chi^2$ / ndf 72.38 / 39
p0 84.95 ± 0.09426
87
86
85
84
83
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

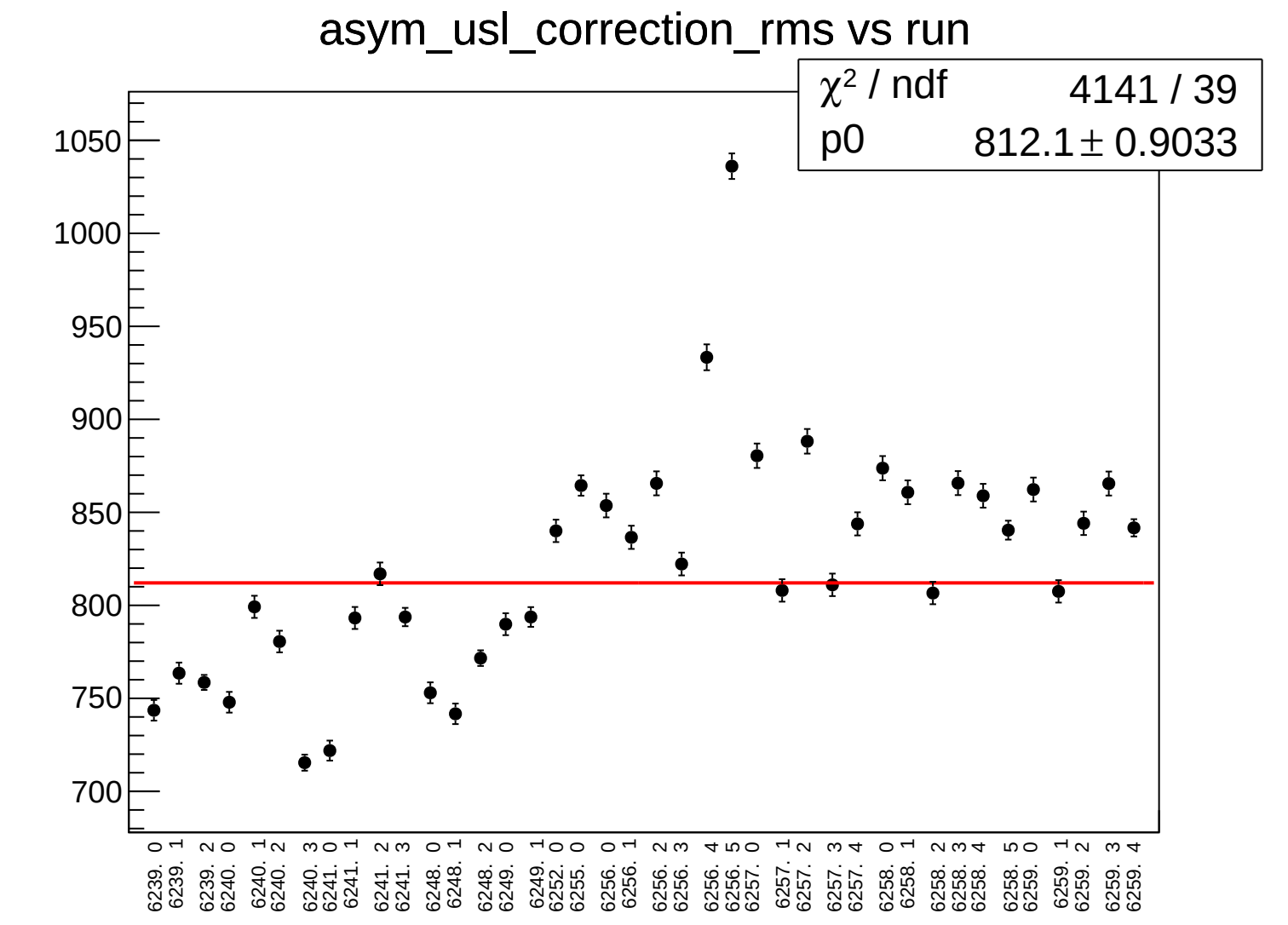

reg_asym_usl_mean vs run
χ² / ndf 24.58 / 39
p0 631.1 ± 1781
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 384.3
Std Dev 364.3
1.5
1
0.5
0
−0.5
−1
−1.5

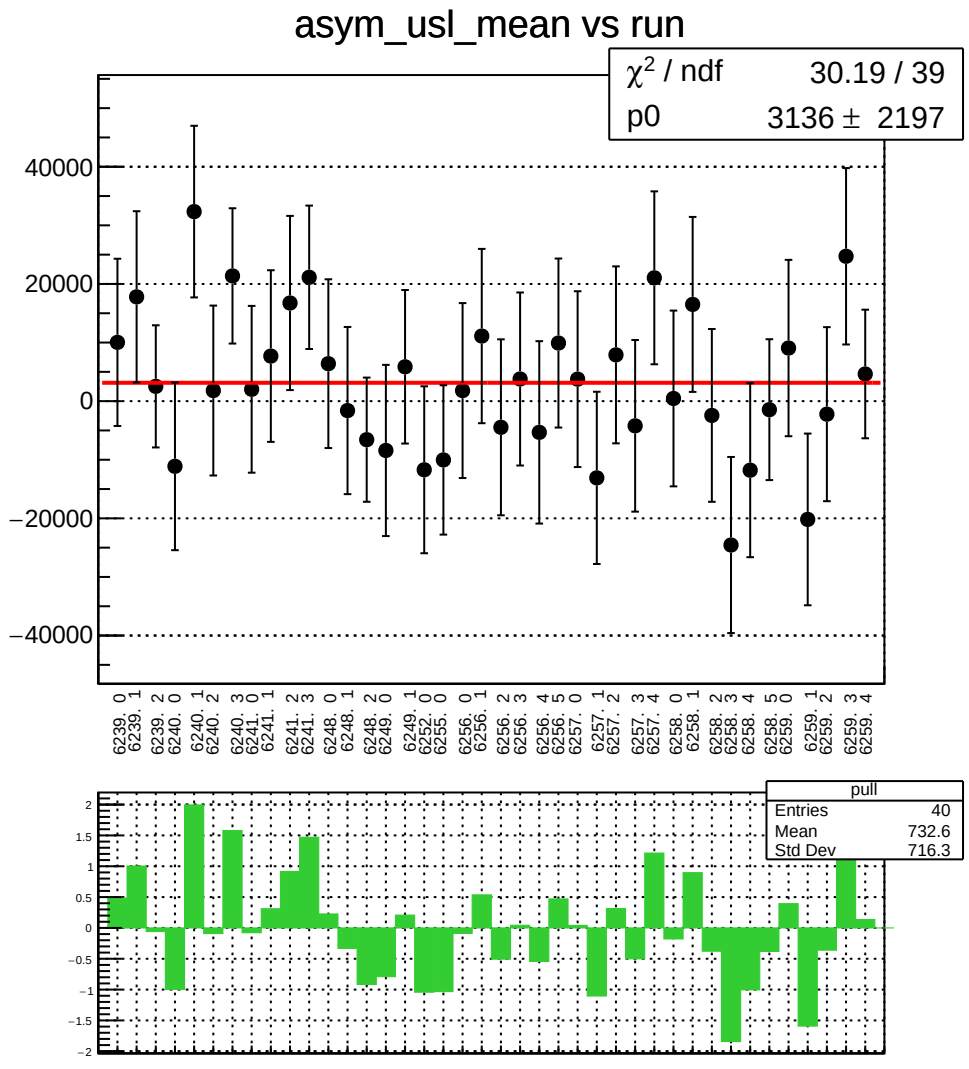

pull1D
Entries 40
Mean −0.01049
Std Dev 0.7838
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

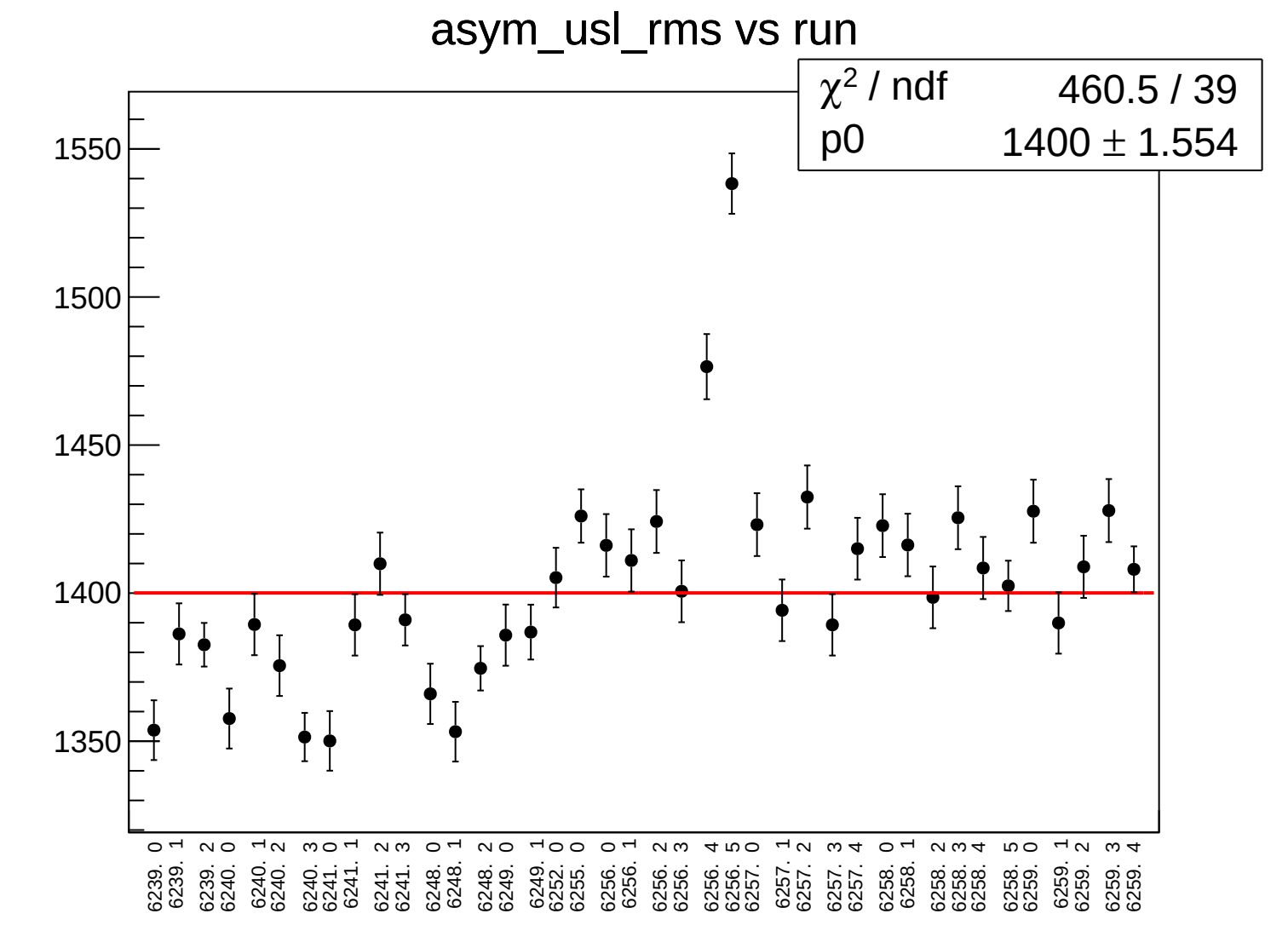

reg_asym_usl_rms vs run
χ² / ndf 51.06 / 39
p0 1135 ± 1.259
1170
1160
1150
1140
1130
1120
1110
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

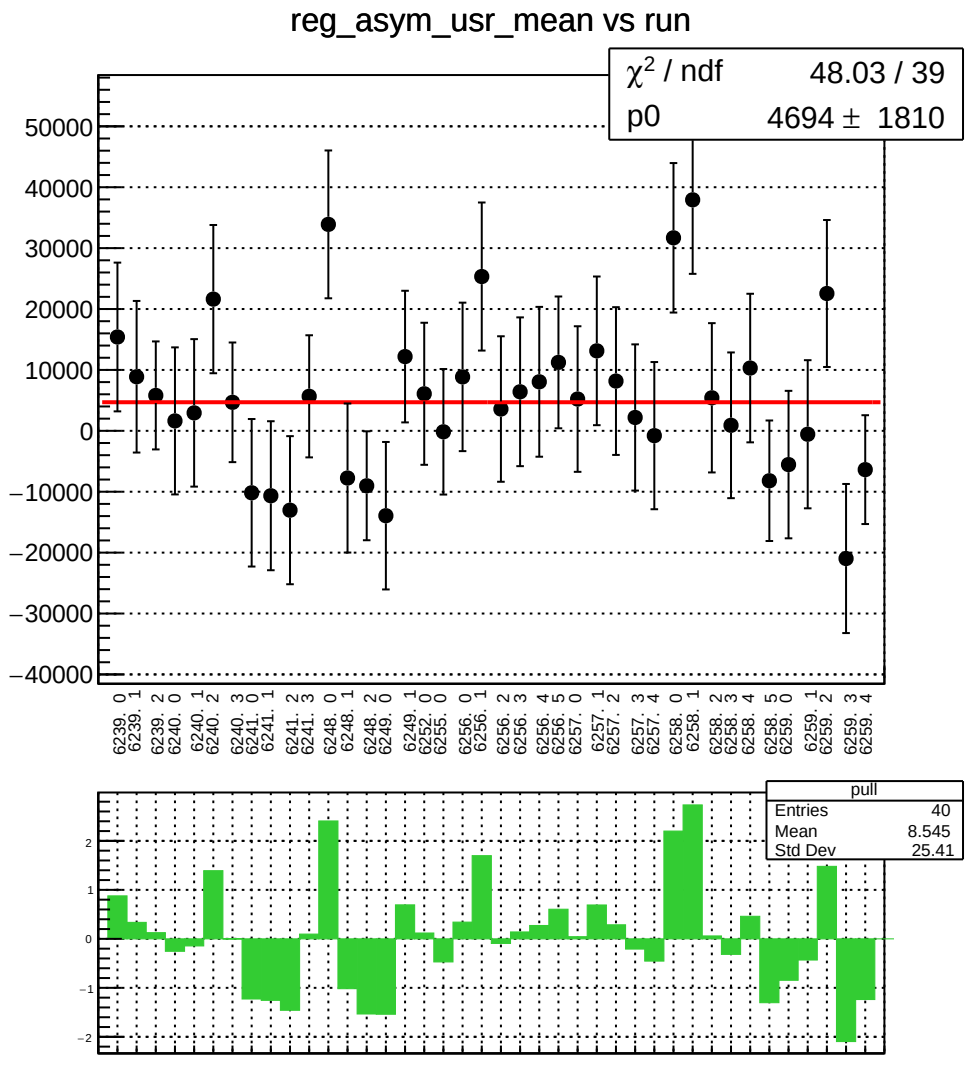

asym_usl_correction_mean vs run
χ² / ndf 44.92 / 39
p0 −2177 ± 1277
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.39
Std Dev 24.47
2
1
0
−1
−2

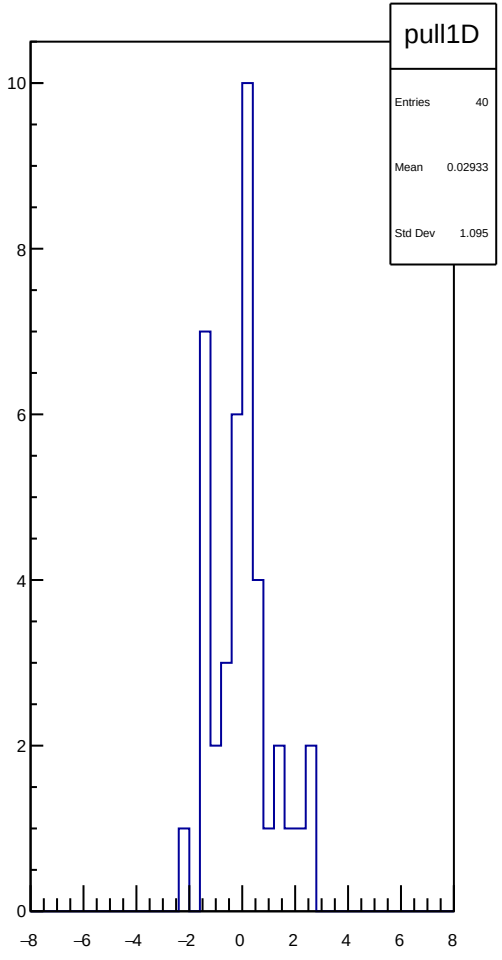

pull1D
Entries 40
Mean −0.02938
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

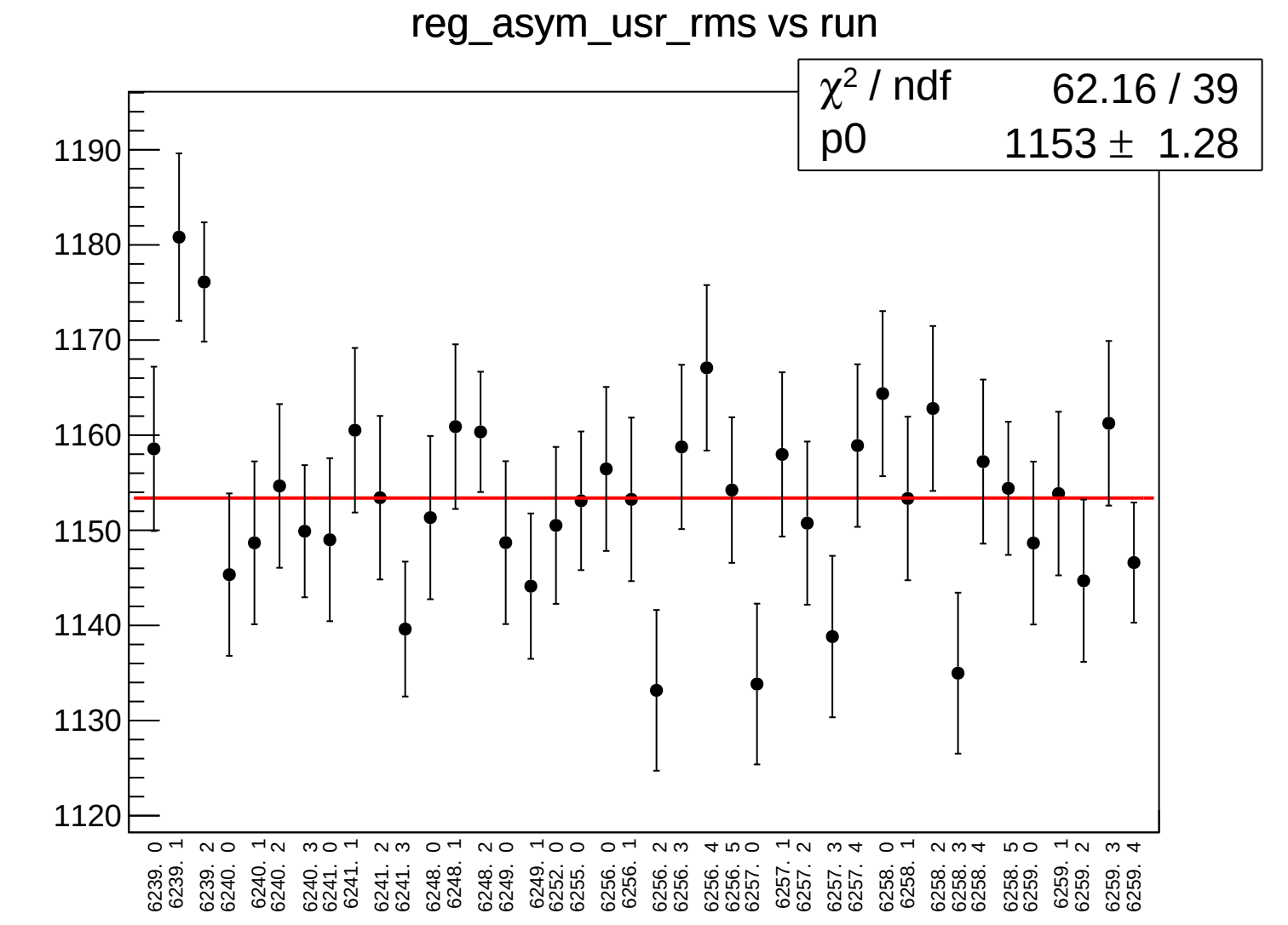

asym_usl_correction_rms vs run
χ² / ndf 4141 / 39
p0 812.1 ± 0.9033
1050
1000
950
900
850
800
750
700
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

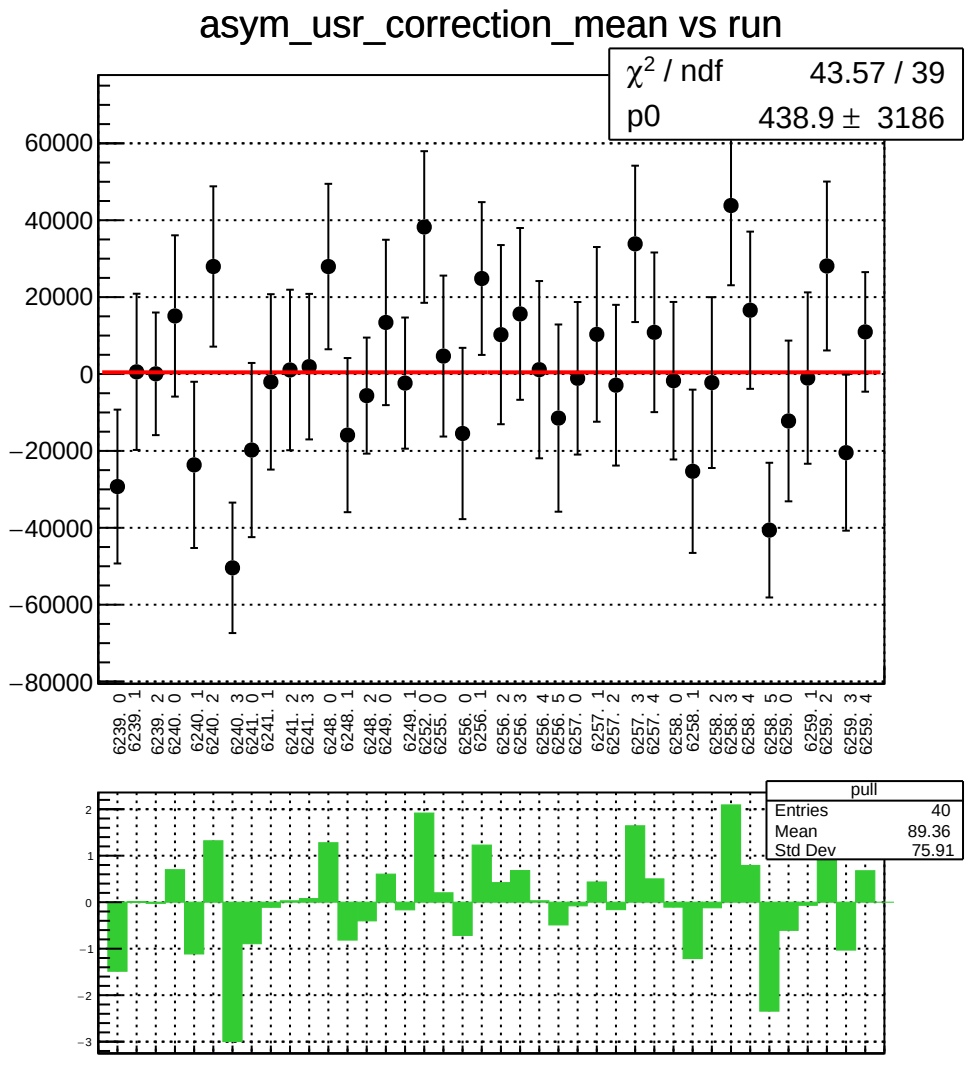

asym_usl_mean vs run
χ² / ndf 30.19 / 39
p0 3136 ± 2197
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 732.6
Std Dev 716.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean −0.003678
Std Dev 0.8687
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

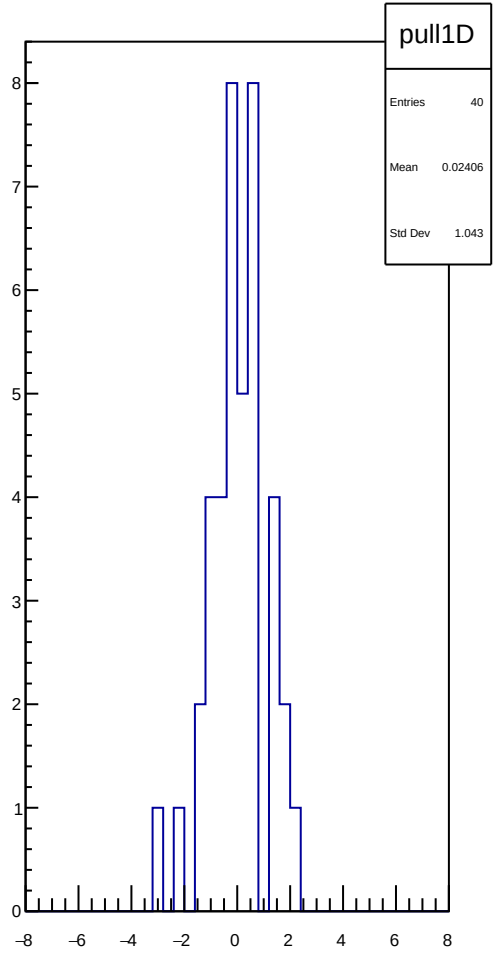

asym_usl_rms vs run
χ² / ndf 460.5 / 39
p0 1400 ± 1.554
1550
1500
1450
1400
1350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

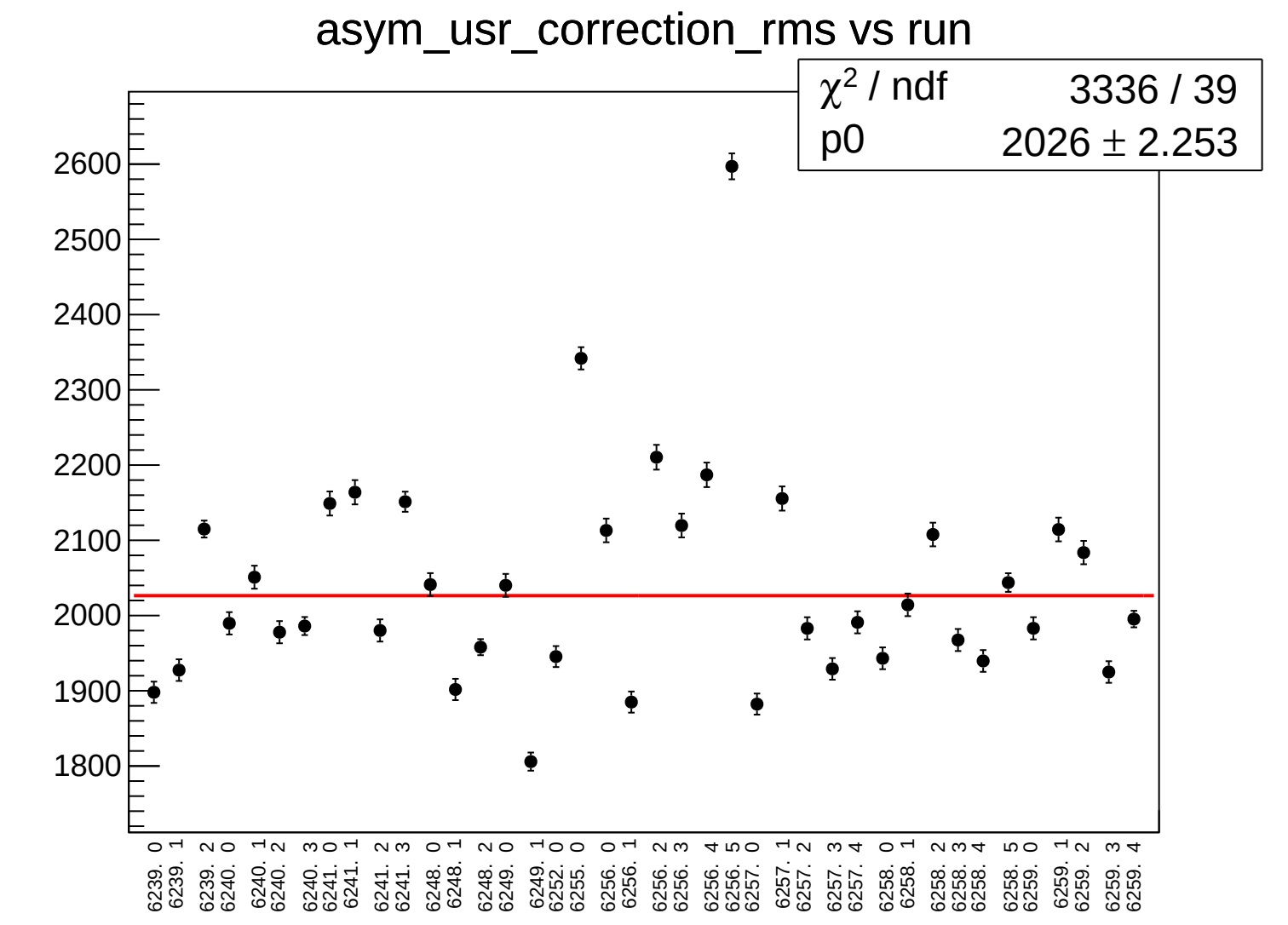

reg_asym_usr_mean vs run
χ² / ndf 48.03 / 39
p0 4694 ± 1810
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 8.545
Std Dev 25.41
2
1
0
−1
−2

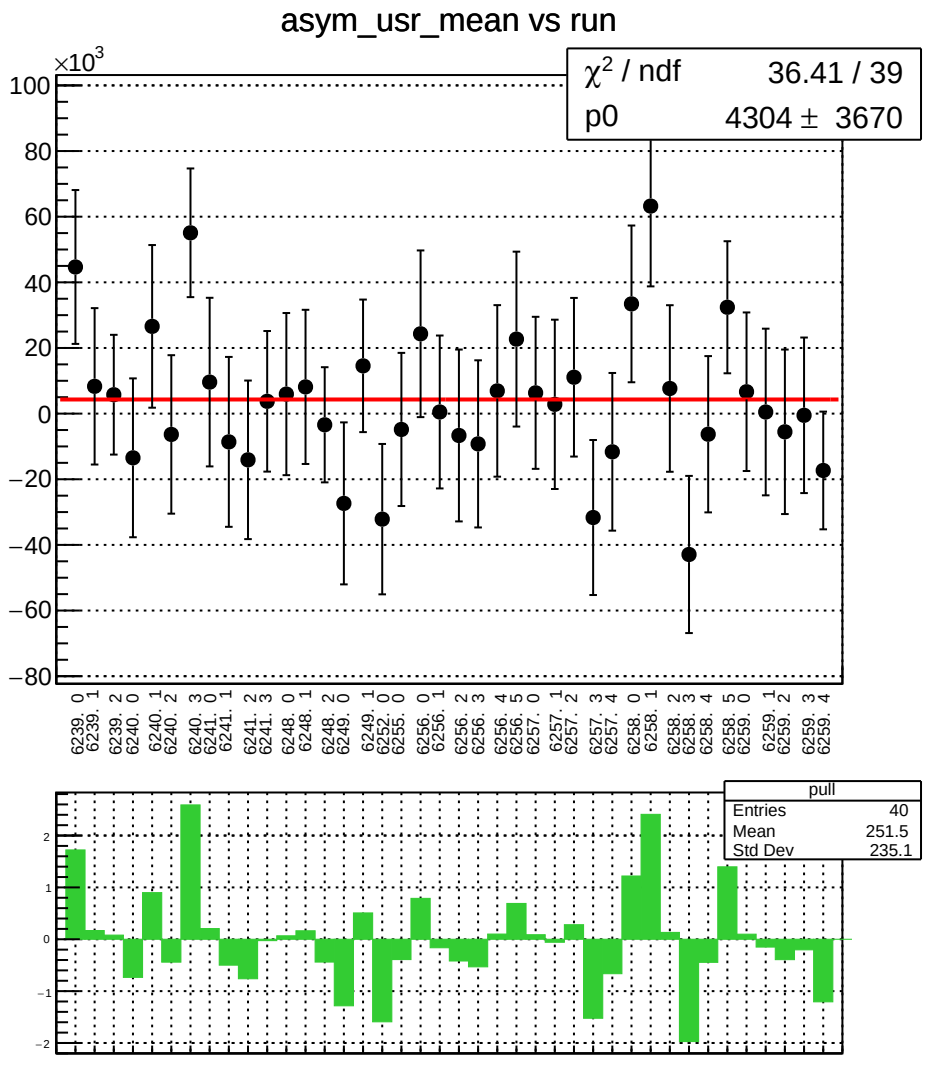

pull1D
Entries 40
Mean 0.02933
Std Dev 1.095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

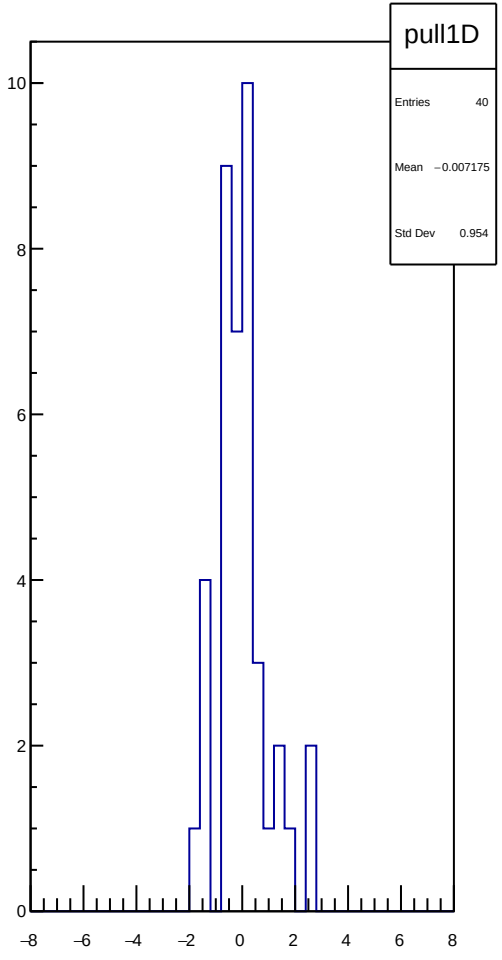

reg_asym_usr_rms vs run
χ² / ndf 62.16 / 39
p0 1153 ± 1.28
1190
1180
1170
1160
1150
1140
1130
1120
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

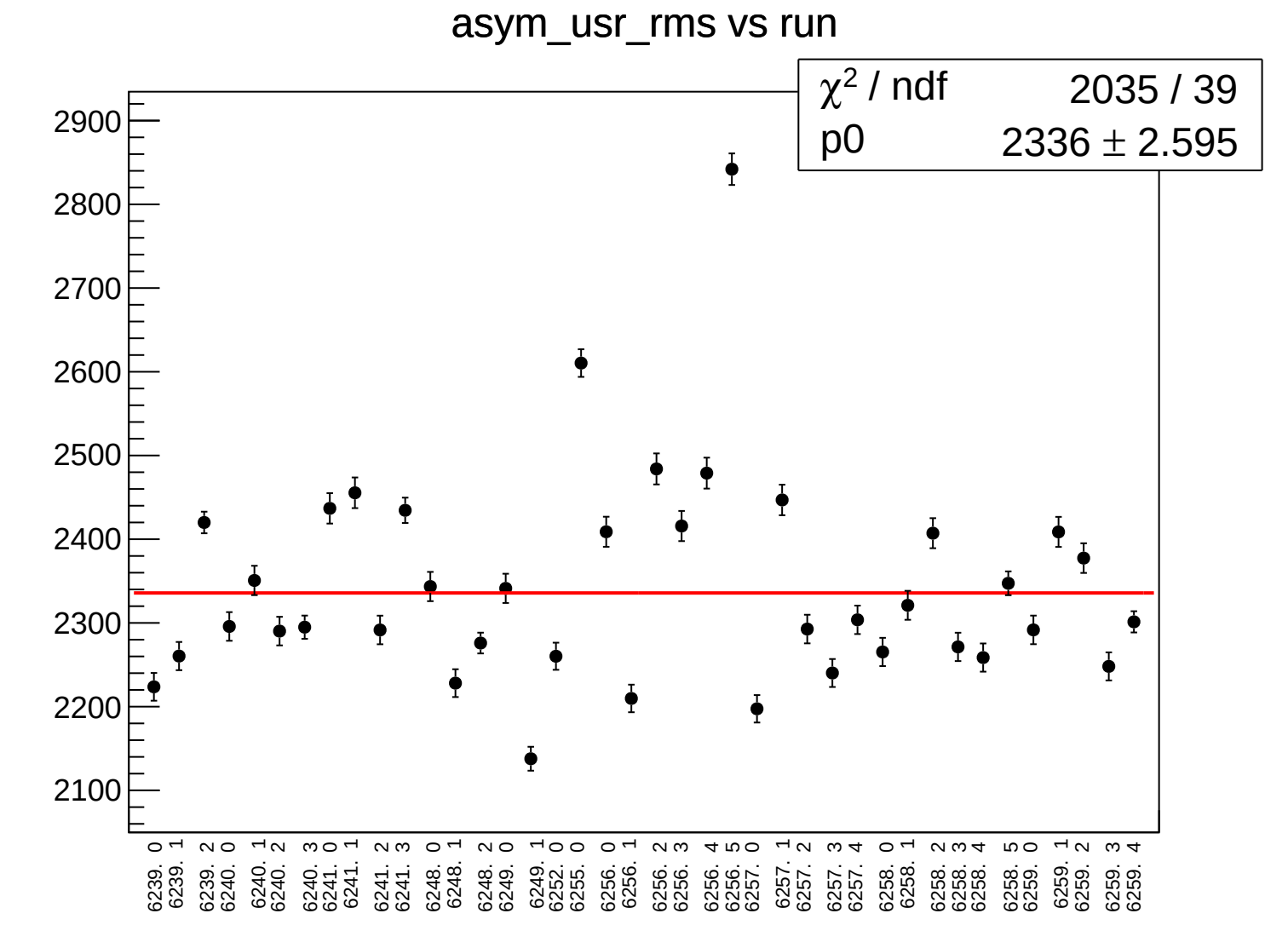

asym_usr_correction_mean vs run
χ² / ndf 43.57 / 39
p0 438.9 ± 3186
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 89.36
Std Dev 75.91
2
1
0
−1
−2
−3

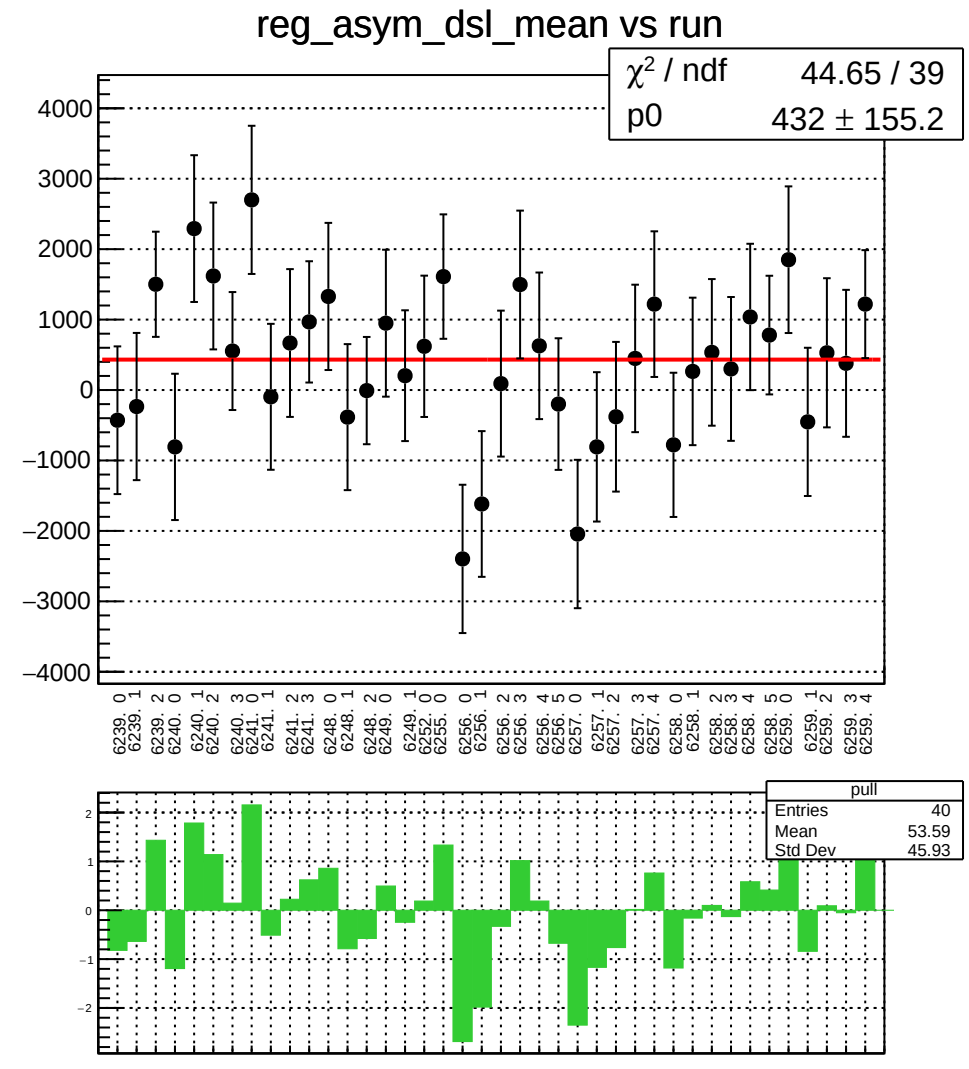

pull1D
Entries 40
Mean 0.02406
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

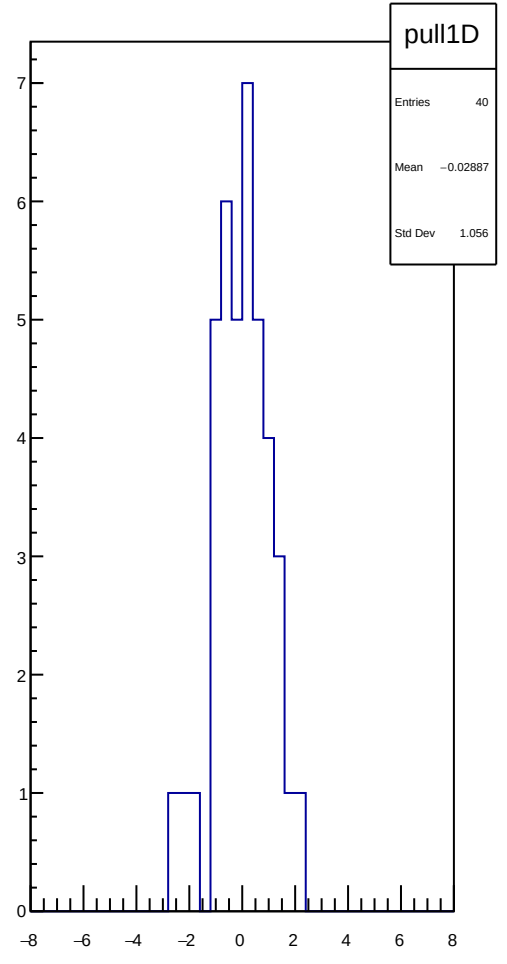

asym_usr_correction_rms vs run
χ² / ndf 3336 / 39
p0 2026 ± 2.253
2600
2500
2400
2300
2200
2100
2000
1900
1800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

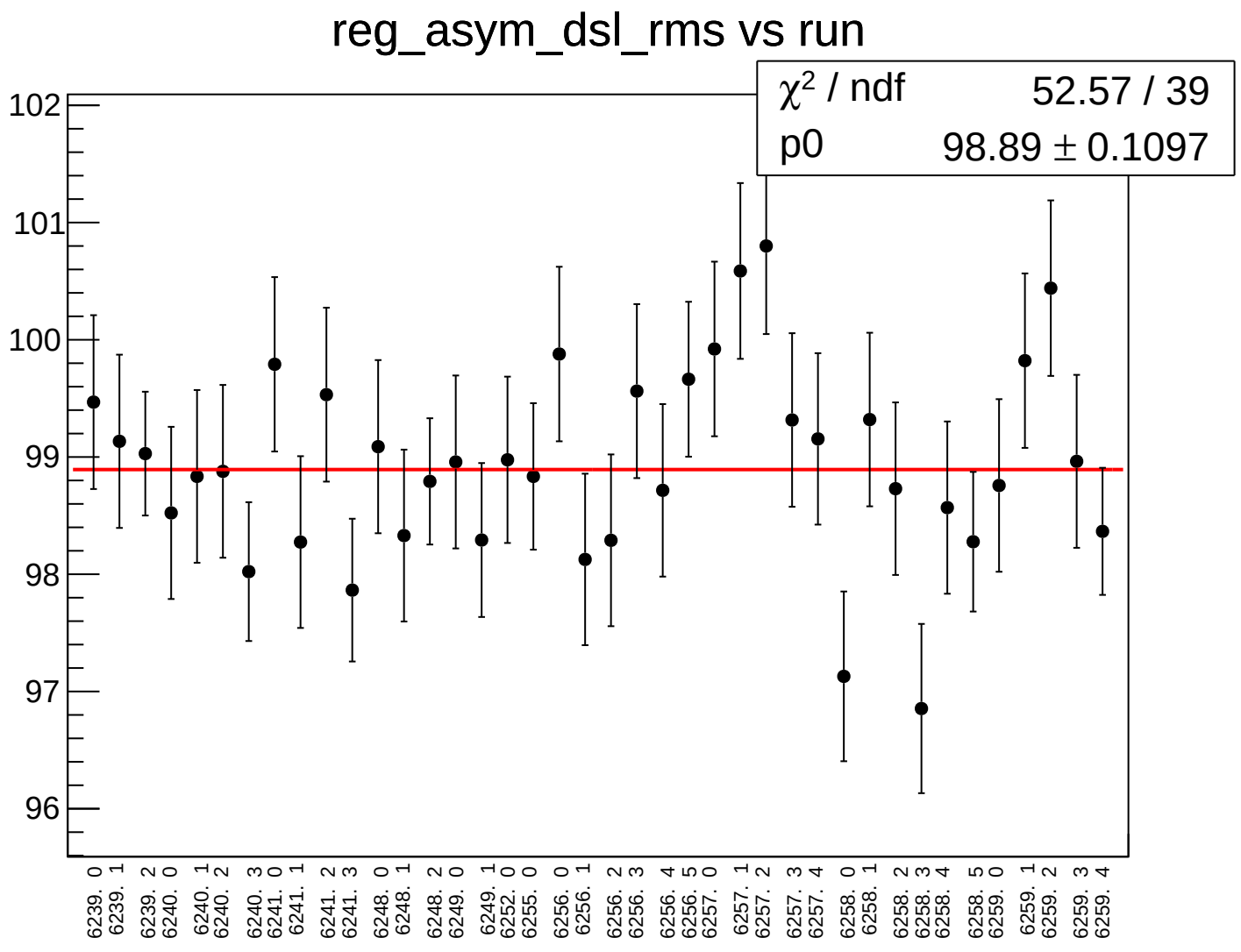

asym_usr_mean vs run
×10^3
χ² / ndf 36.41 / 39
p0 4304 ± 3670
100
80
60
40
20
0
−20
−40
−60
−80
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 251.5
Std Dev 235.1
2
1
0
−1
−2

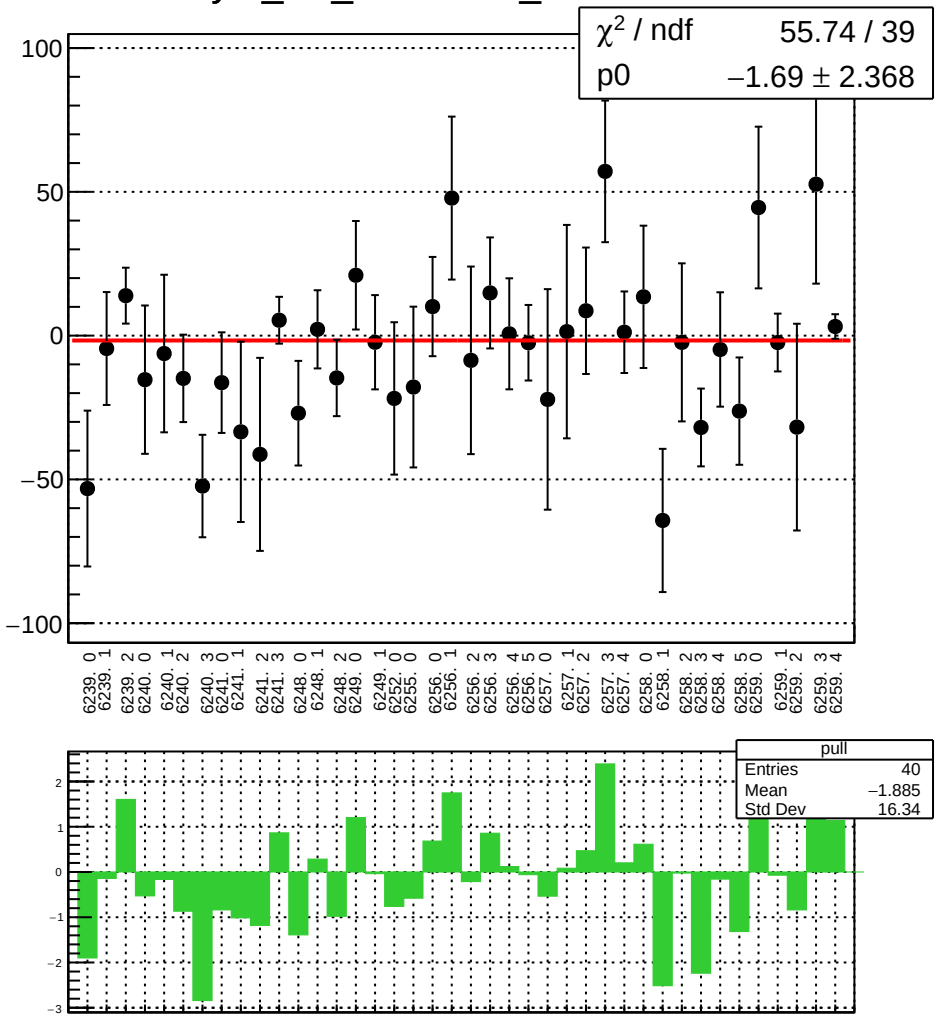

pull1D
Entries 40
Mean −0.007175
Std Dev 0.954
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

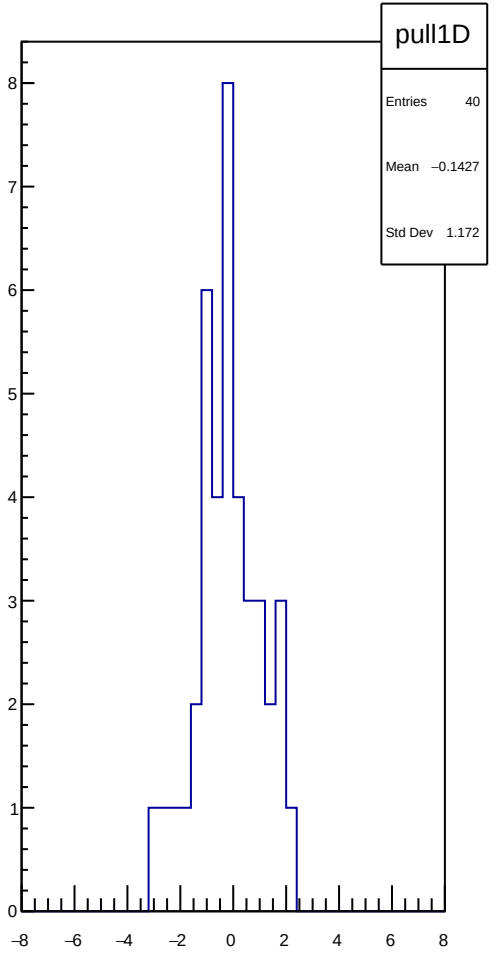

asym_usr_rms vs run
χ² / ndf 2035 / 39
p0 2336 ± 2.595
2900
2800
2700
2600
2500
2400
2300
2200
2100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

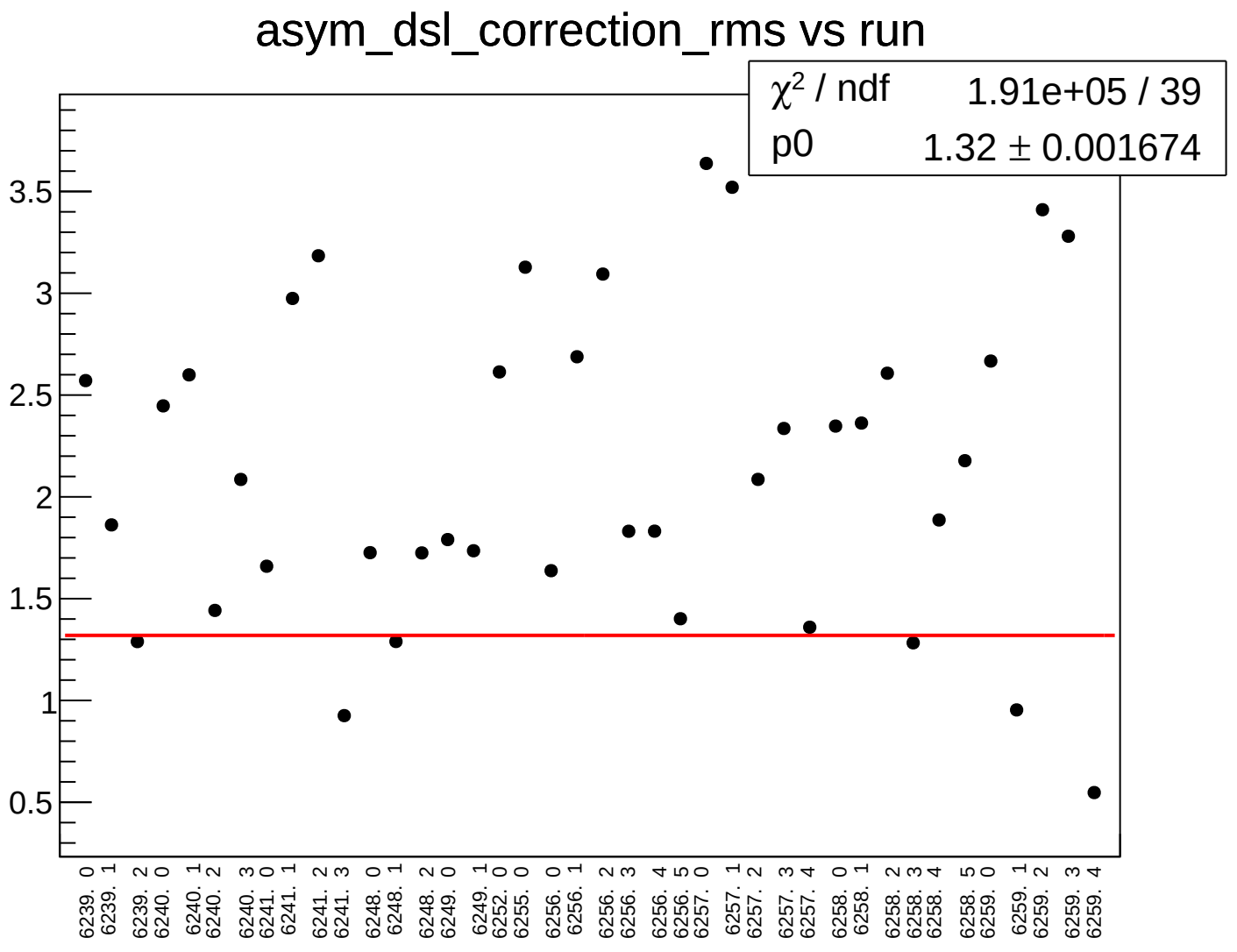

reg_asym_dsl_mean vs run
χ² / ndf 44.65 / 39
p0 432 ± 155.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 53.59
Std Dev 45.93
2
1
0
−1
−2

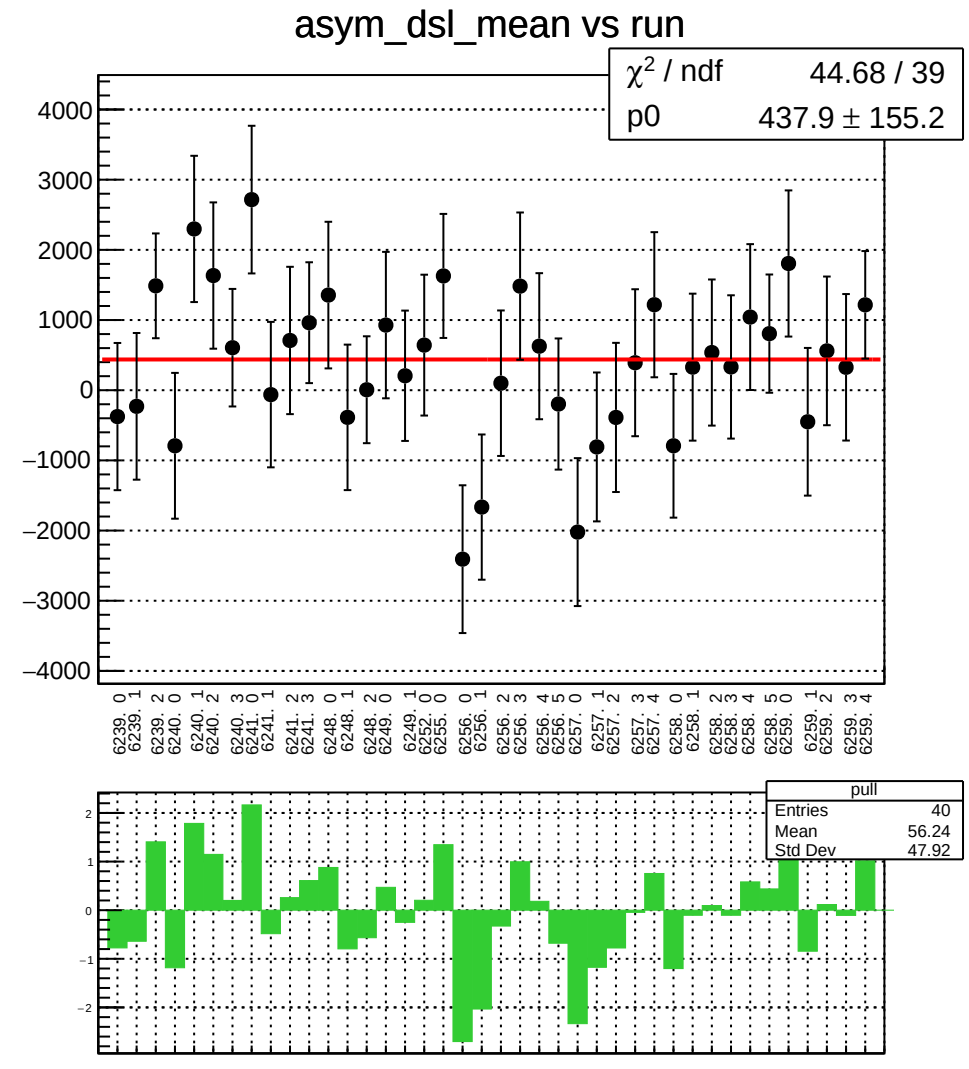

pull1D
Entries 40
Mean −0.02887
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

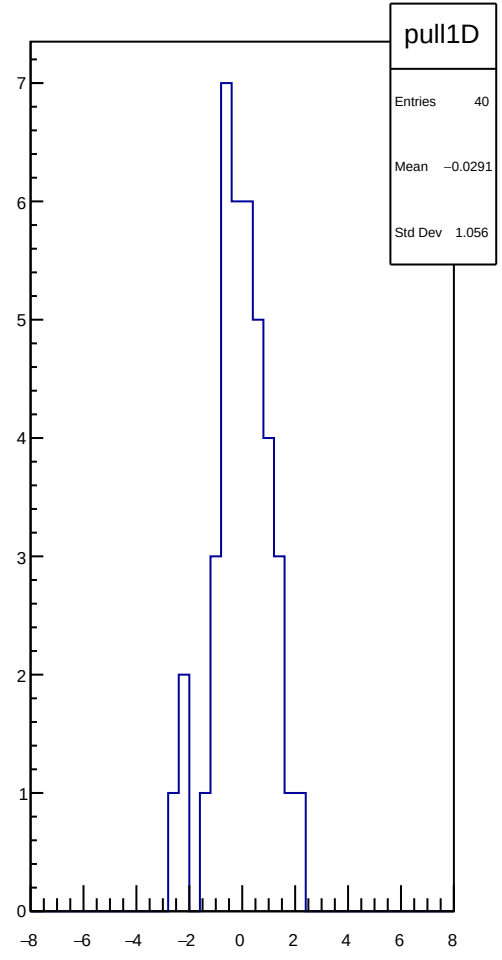

reg_asym_dsl_rms vs run
χ² / ndf 52.57 / 39
p0 98.89 ± 0.1097
102
101
100
99
98
97
96
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

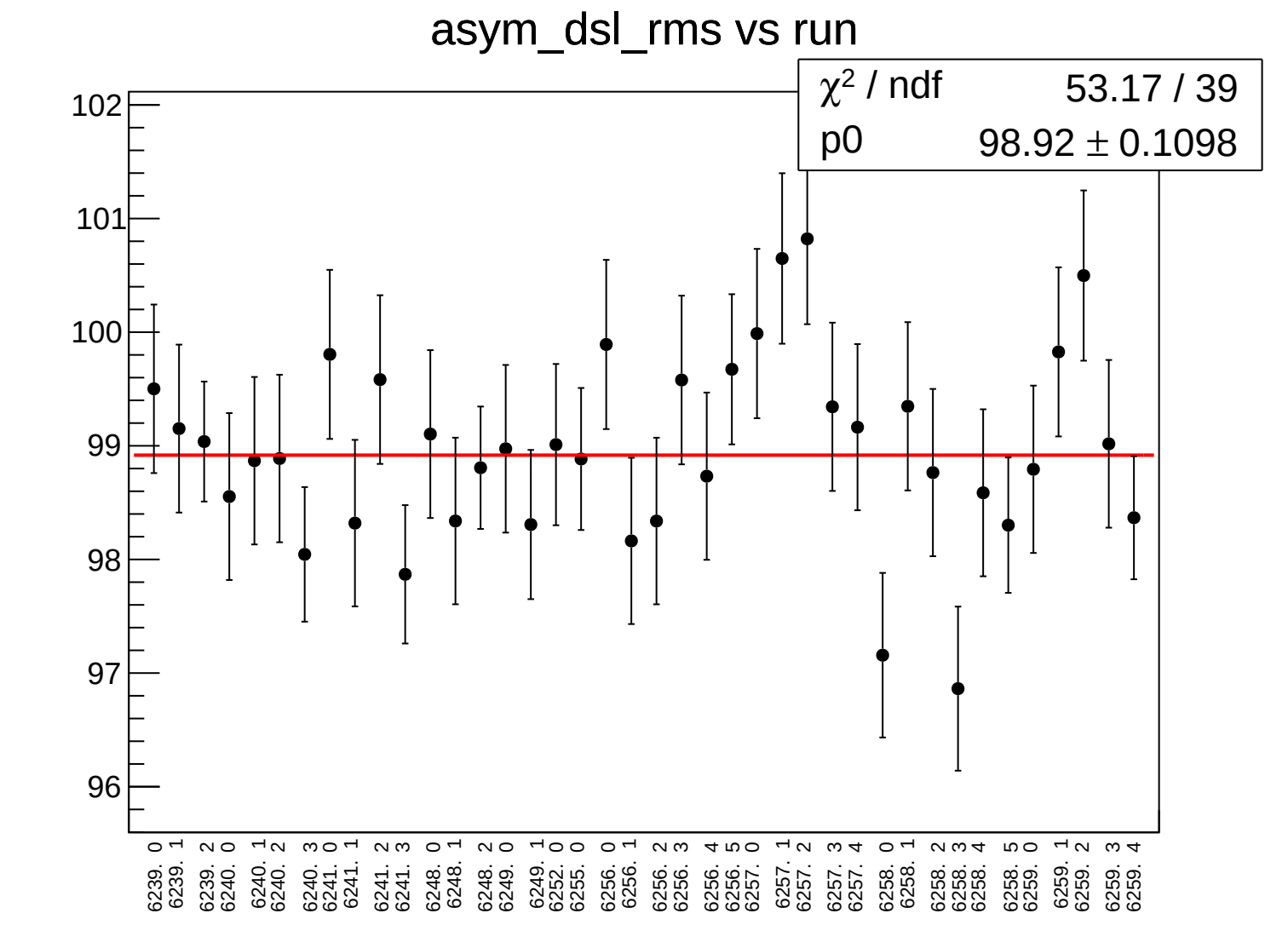

asym_dsl_correction_mean vs run
χ² / ndf 55.74 / 39
p0 −1.69 ± 2.368
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −1.885
Std Dev 16.34
2
1
0
−1
−2
−3

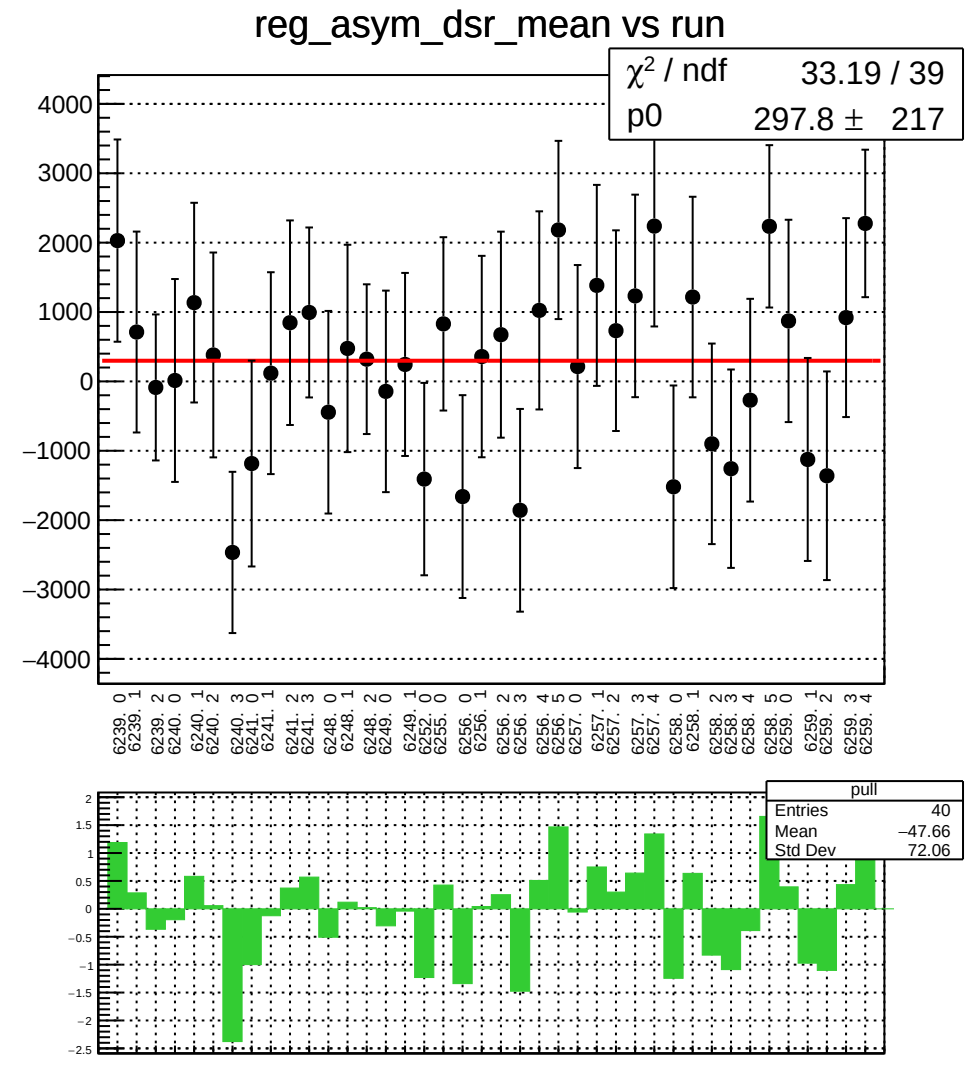

pull1D
Entries 40
Mean −0.1427
Std Dev 1.172
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

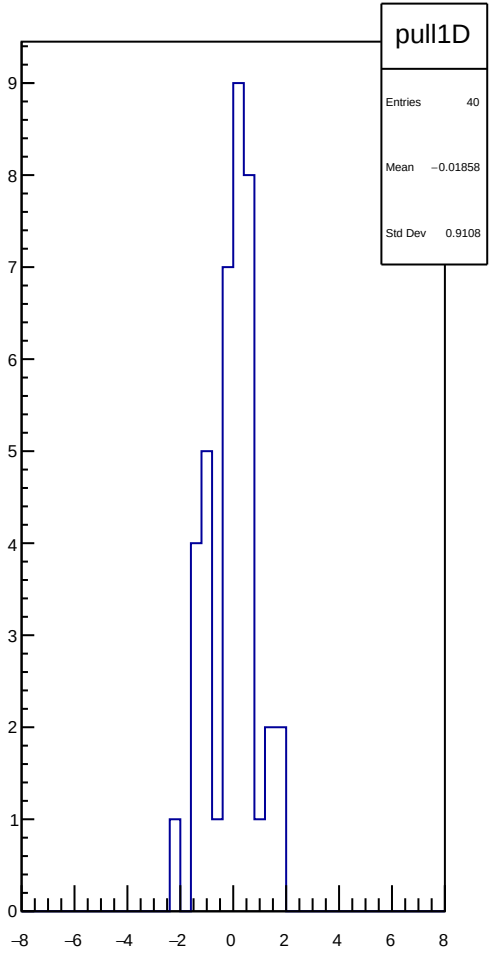

asym_dsl_correction_rms vs run
$\chi^2$ / ndf 1.91e+05 / 39
p0 1.32 ± 0.001674
3.5
3
2.5
2
1.5
1
0.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

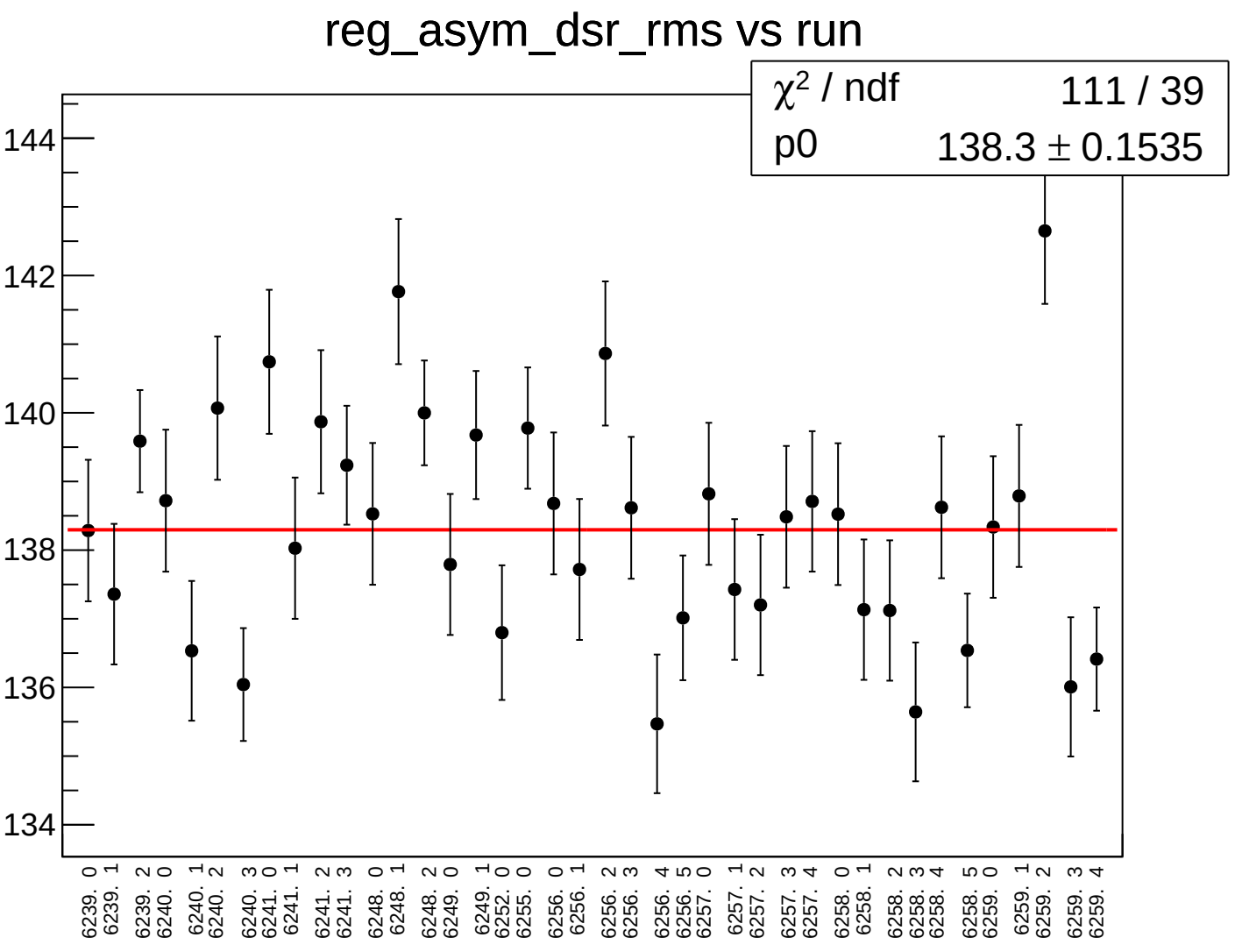

asym_dsl_mean vs run
χ² / ndf 44.68 / 39
p0 437.9 ± 155.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 56.24
Std Dev 47.92
2
1
0
−1
−2

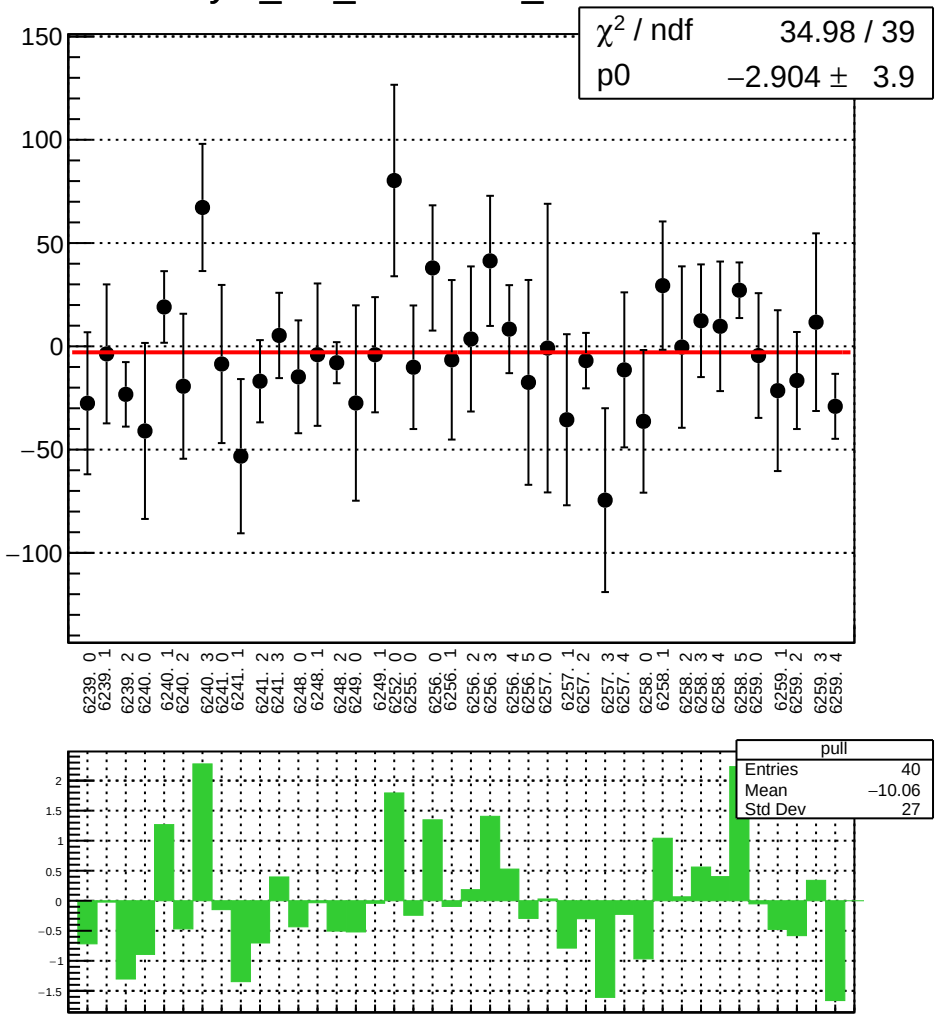

pull1D
Entries 40
Mean −0.0291
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

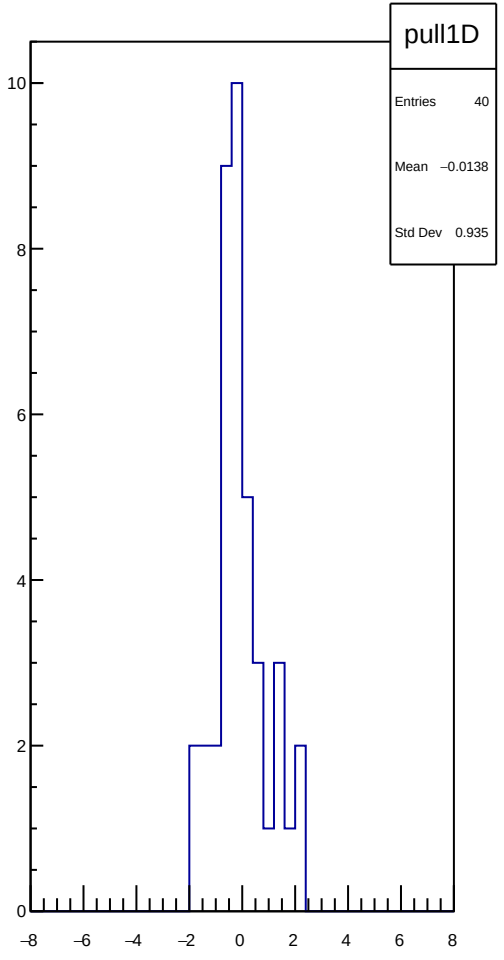

asym_dsl_rms vs run
χ² / ndf 53.17 / 39
p0 98.92 ± 0.1098
102
101
100
99
98
97
96
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

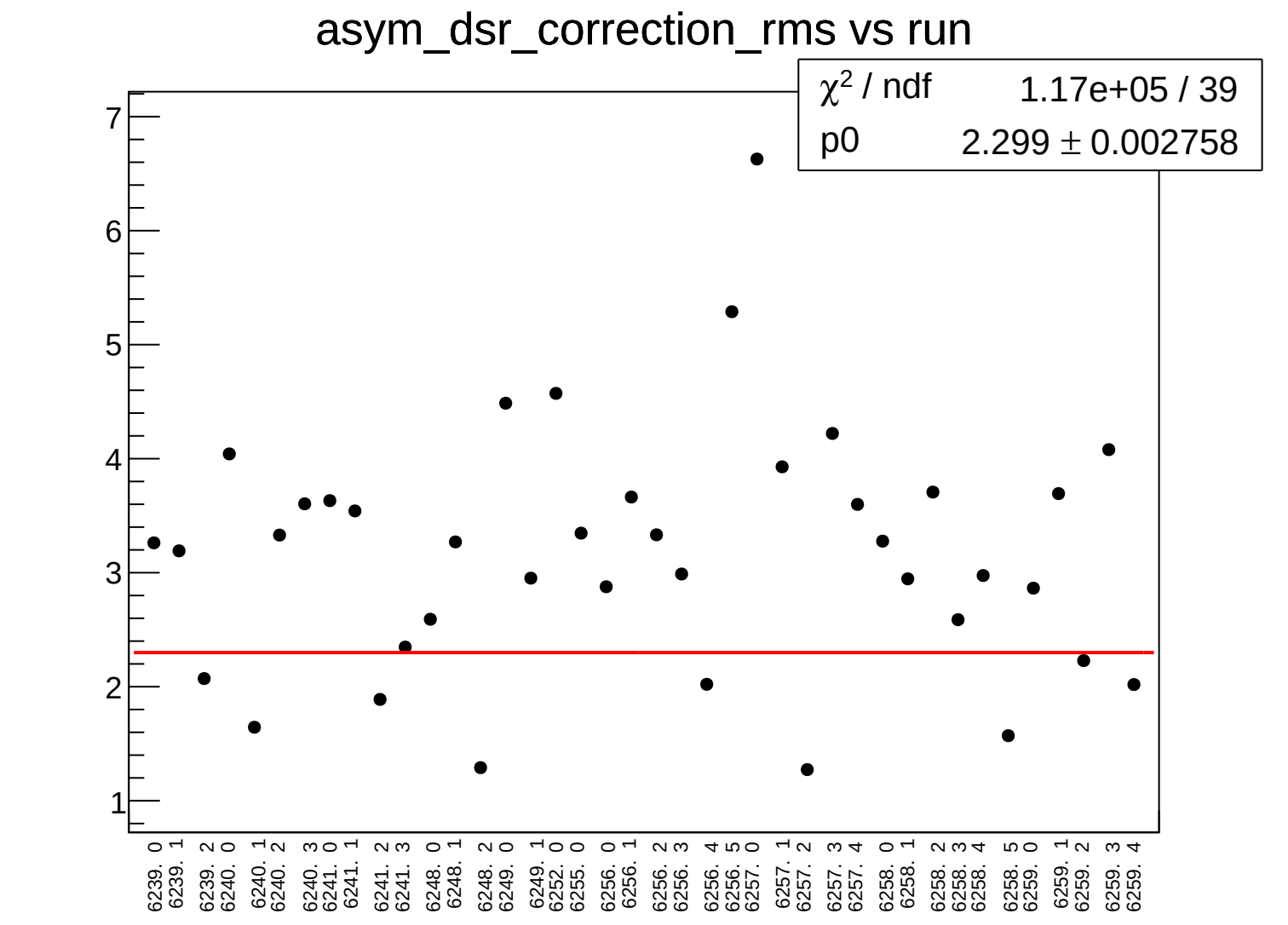

reg_asym_dsr_mean vs run
χ² / ndf 33.19 / 39
p0 297.8 ± 217
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −47.66
Std Dev 72.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

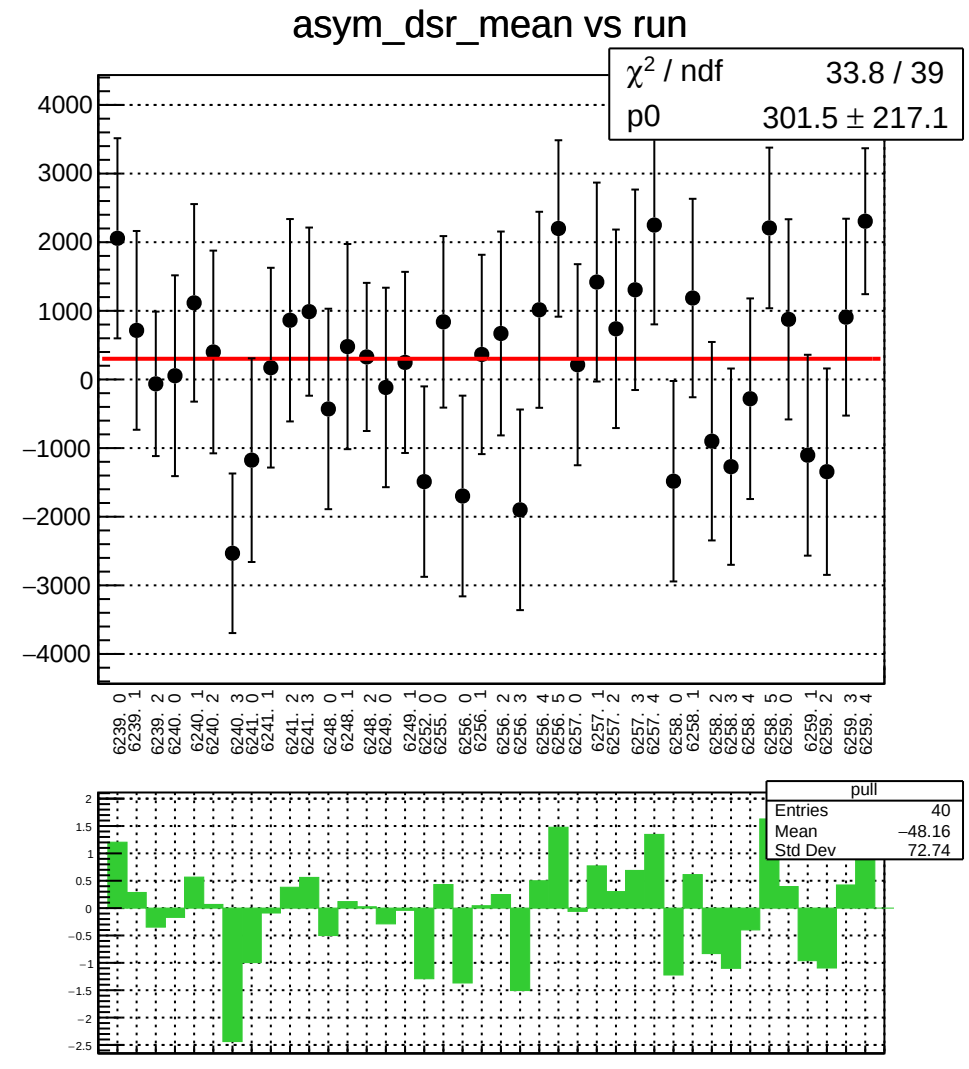

pull1D
Entries 40
Mean −0.01858
Std Dev 0.9108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

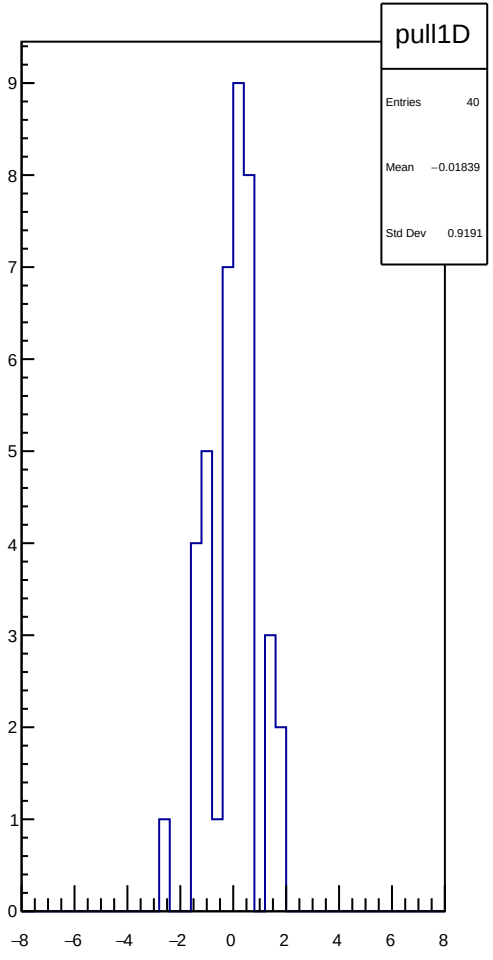

reg_asym_dsr_rms vs run
χ² / ndf 111 / 39
p0 138.3 ± 0.1535
144
142
140
138
136
134
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

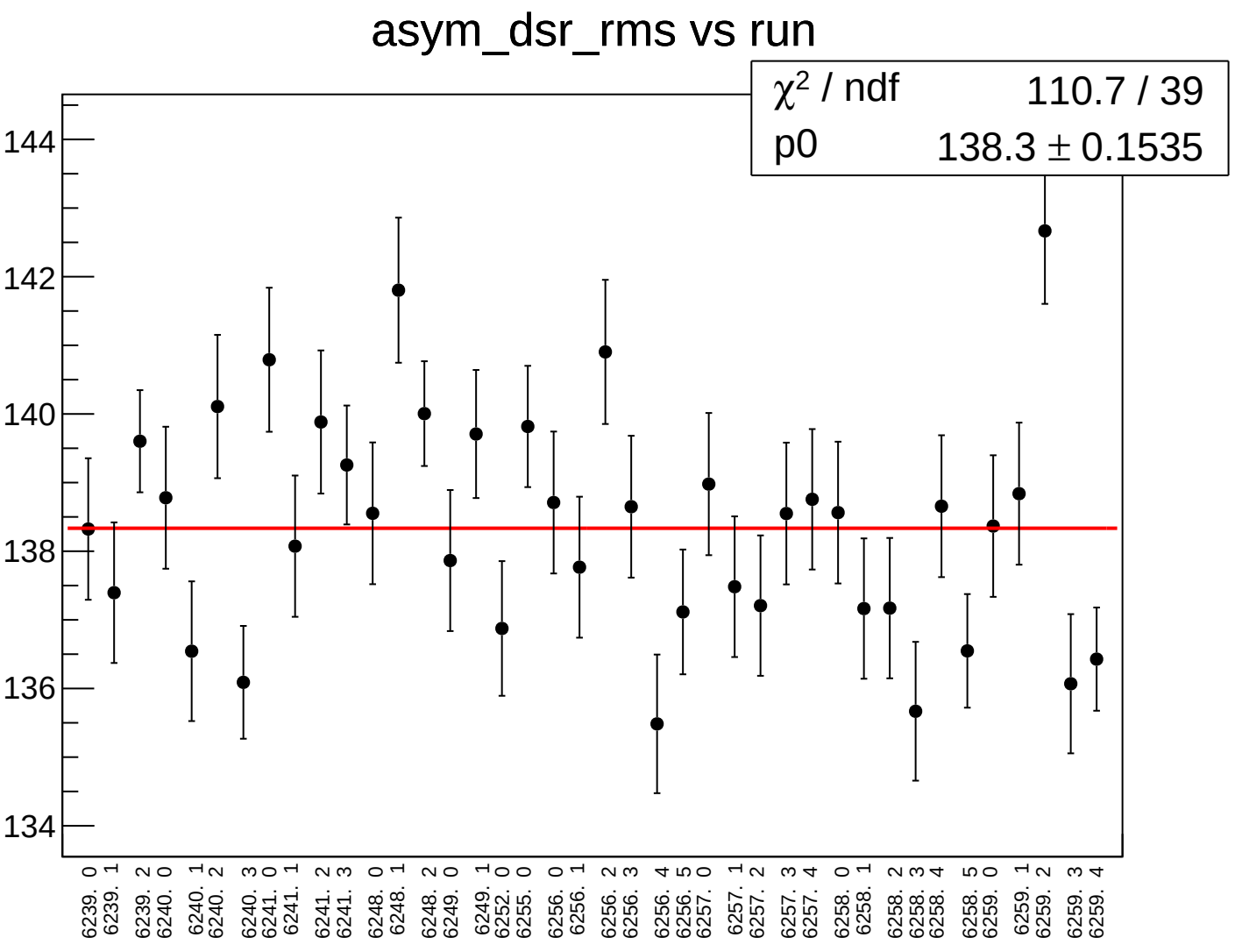

asym_dsr_correction_mean vs run
χ² / ndf 34.98 / 39
p0 −2.904 ± 3.9
150
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −10.06
Std Dev 27
2
1.5
1
0.5
0
−0.5
−1
−1.5

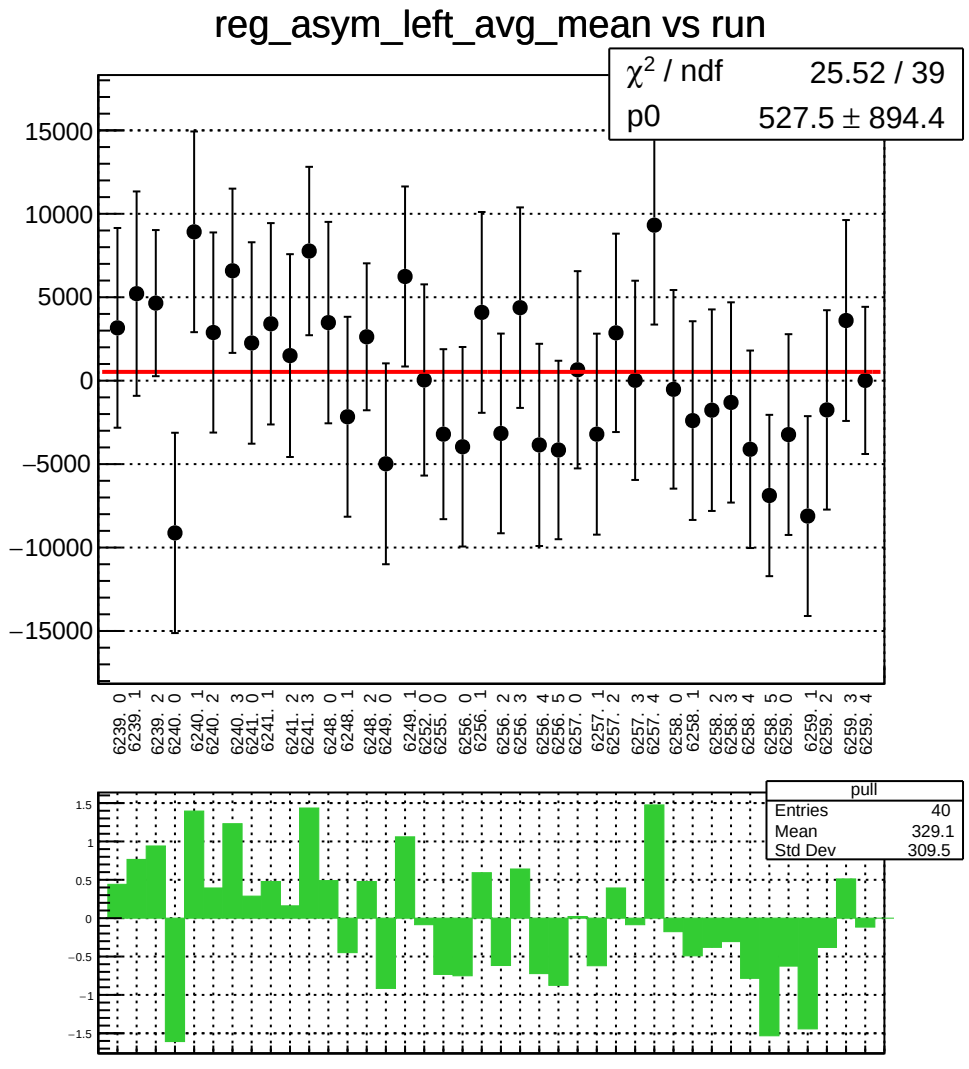

pull1D
Entries 40
Mean −0.0138
Std Dev 0.935
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

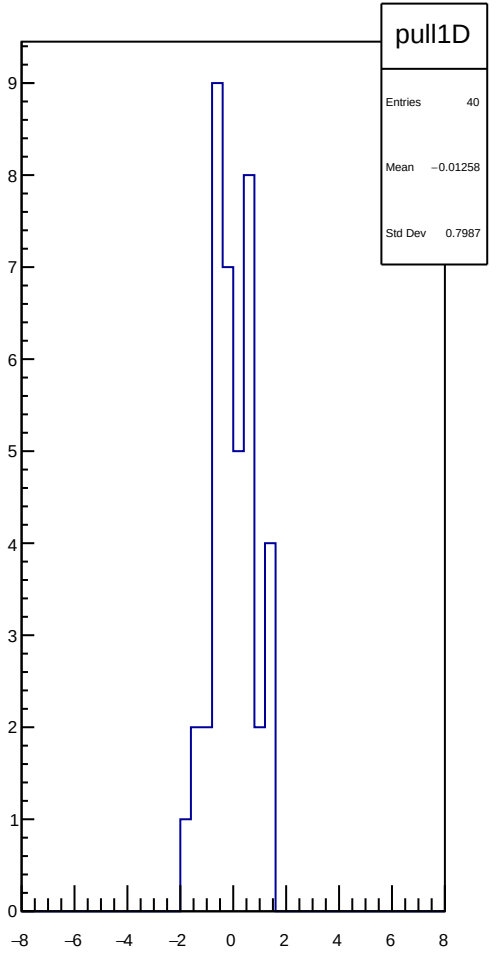

asym_dsr_correction_rms vs run
$\chi^2$ / ndf 1.17e+05 / 39
p0 2.299 ± 0.002758
7
6
5
4
3
2
1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

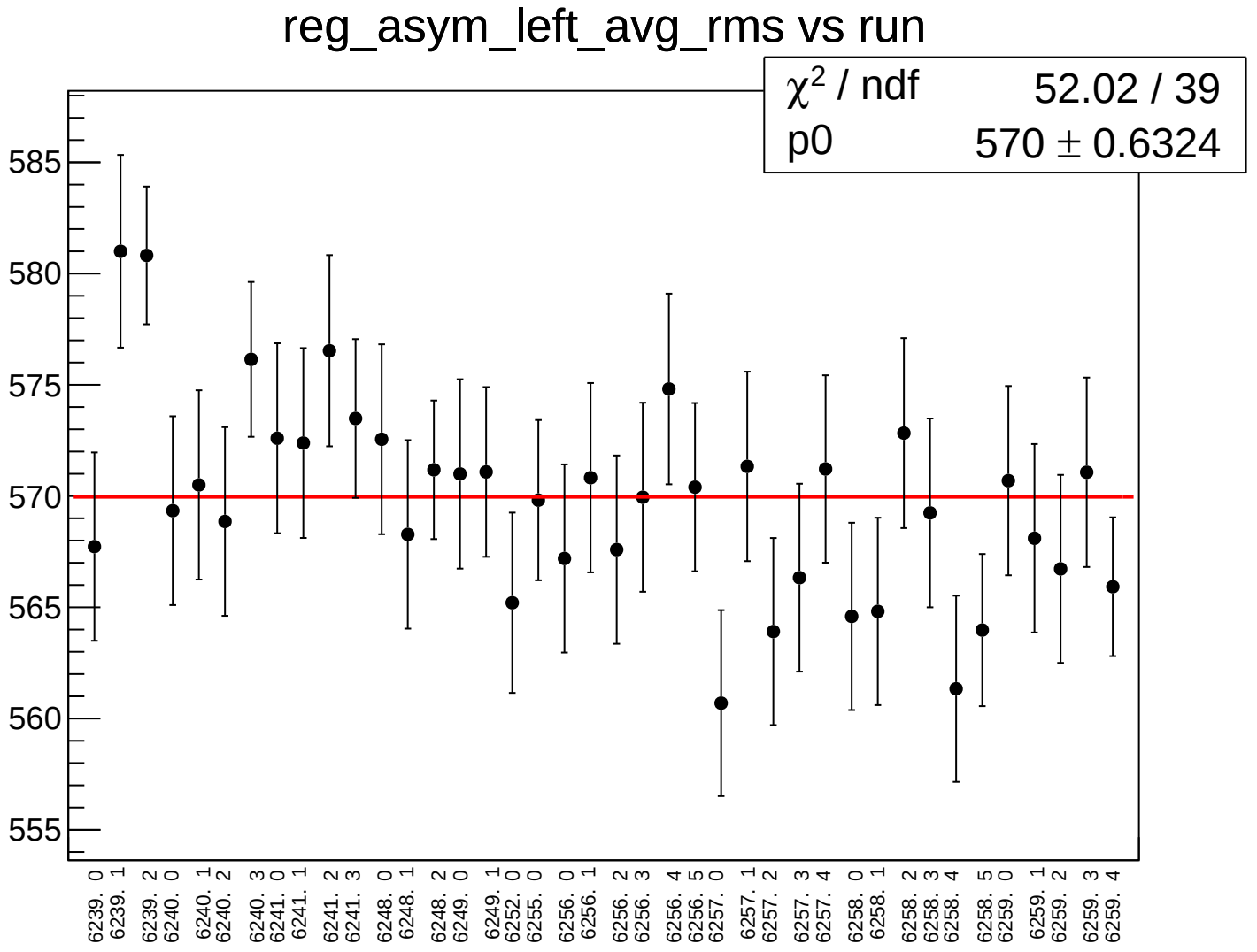

asym_dsr_mean vs run
χ² / ndf 33.8 / 39
p0 301.5 ± 217.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −48.16
Std Dev 72.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

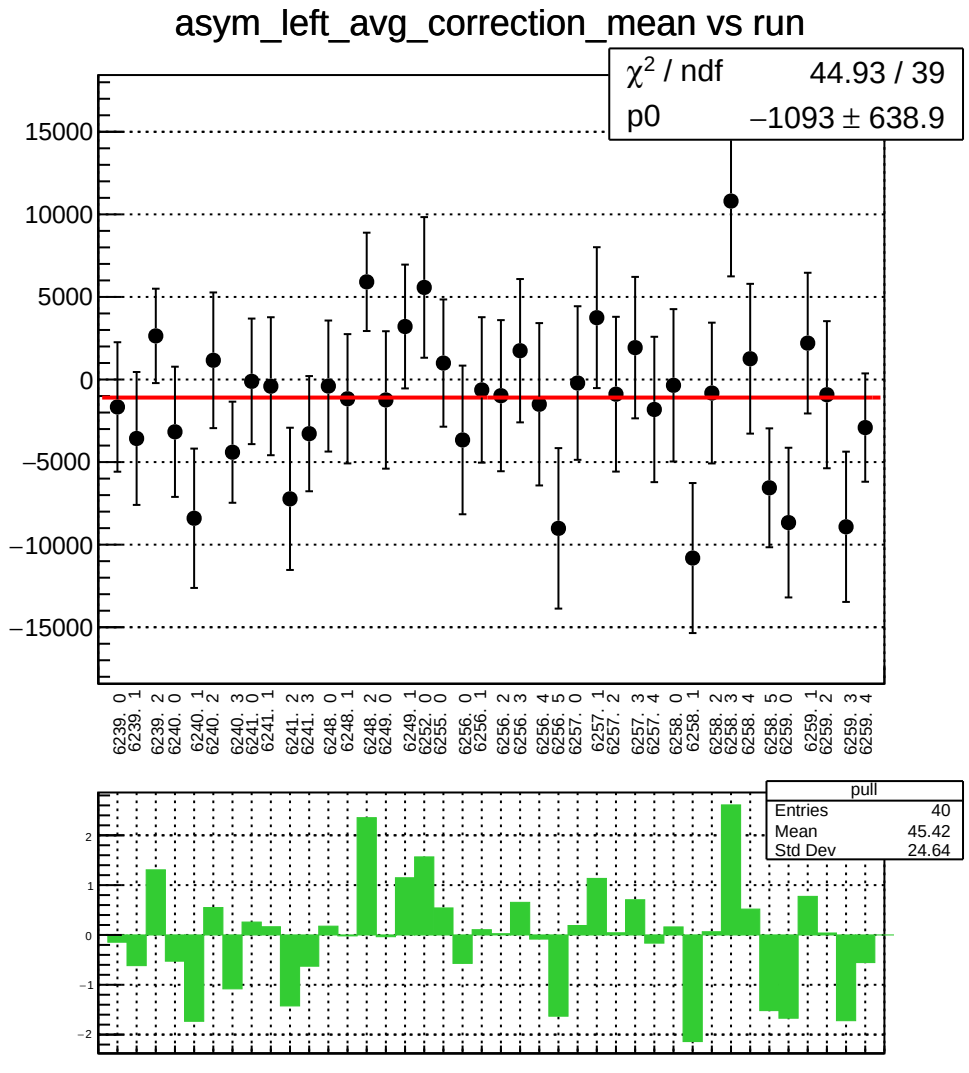

pull1D
Entries 40
Mean −0.01839
Std Dev 0.9191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

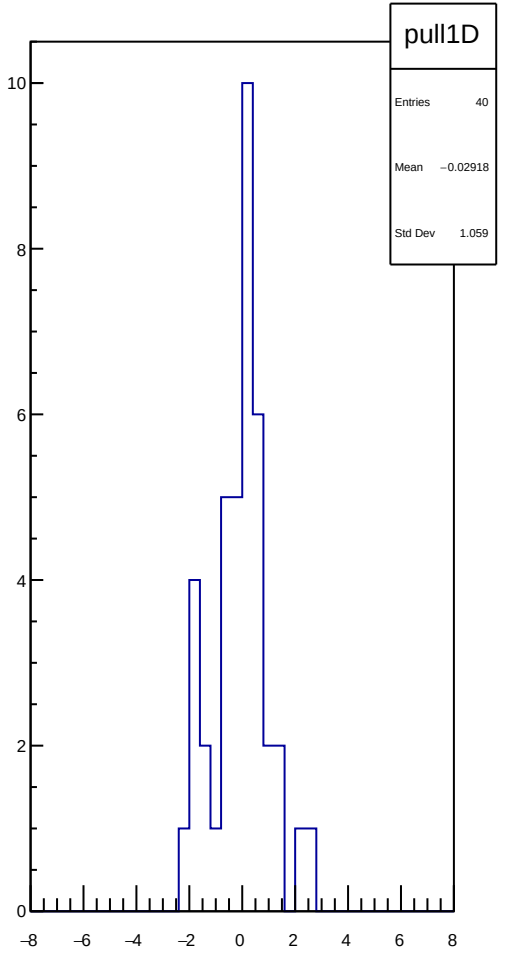

asym_dsr_rms vs run
χ² / ndf 110.7 / 39
p0 138.3 ± 0.1535
144
142
140
138
136
134
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

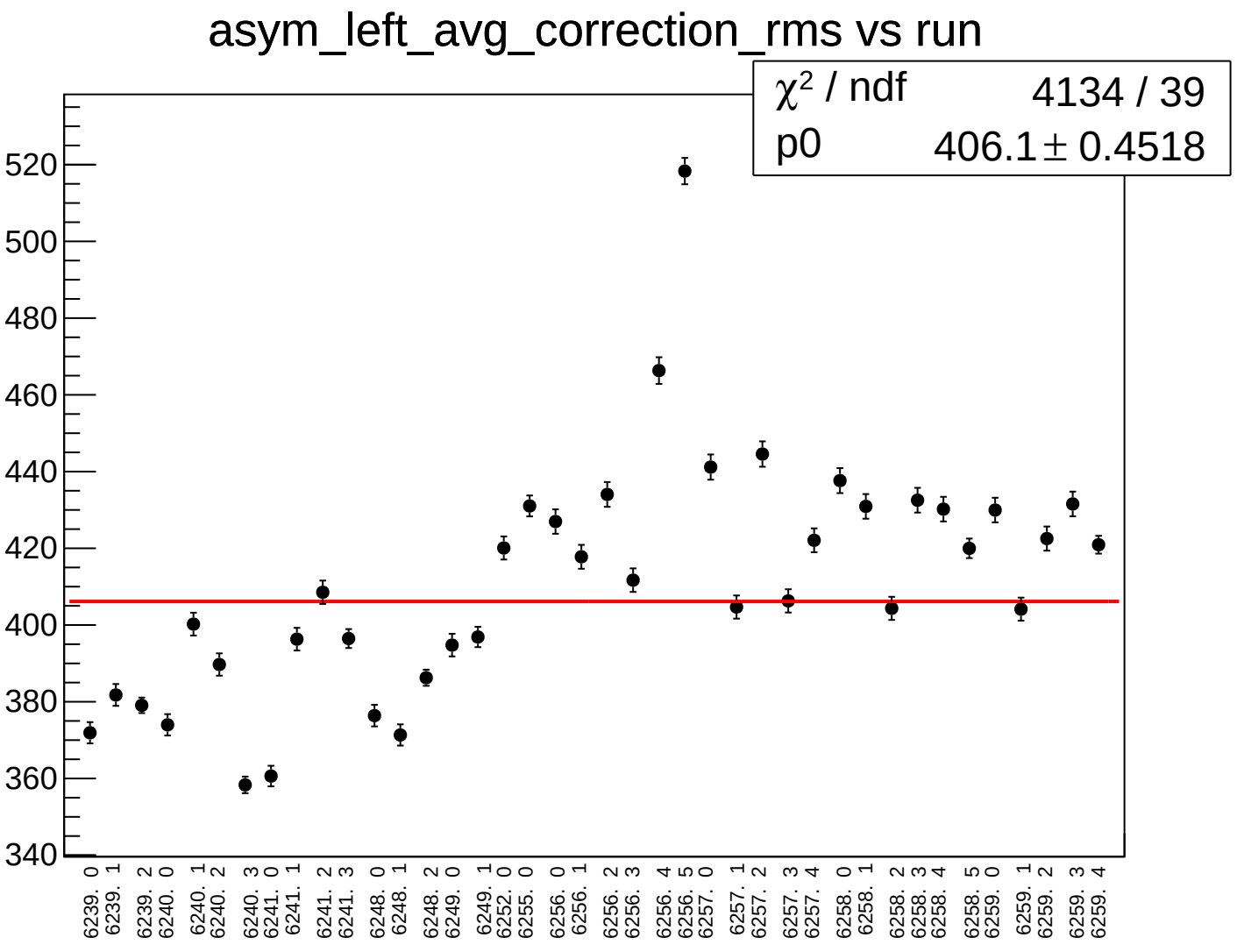

reg_asym_left_avg_mean vs run
χ² / ndf 25.52 / 39
p0 527.5 ± 894.4
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 329.1
Std Dev 309.5
1.5
1
0.5
0
−0.5
−1
−1.5

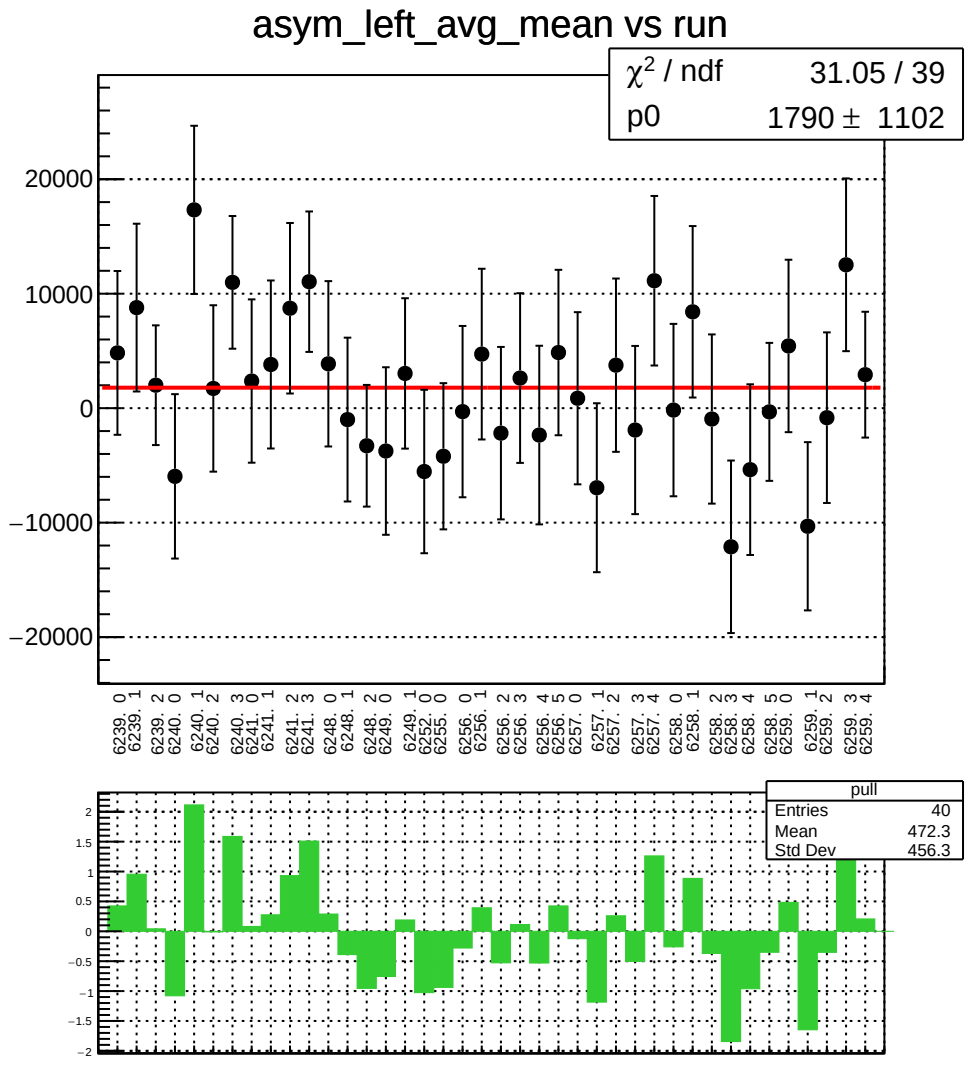

pull1D
Entries 40
Mean −0.01258
Std Dev 0.7987
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

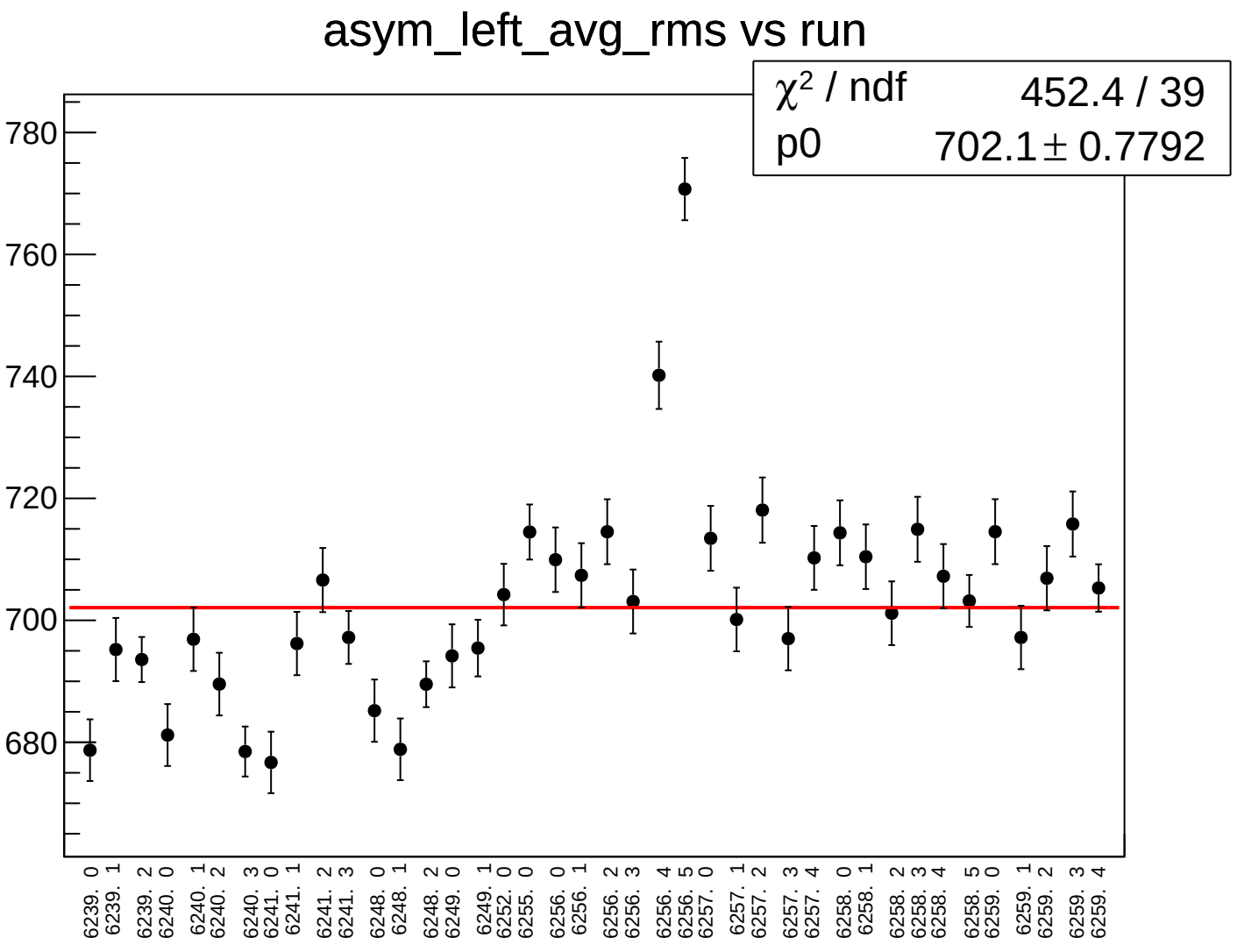

reg_asym_left_avg_rms vs run
χ² / ndf 52.02 / 39
p0 570 ± 0.6324
585
580
575
570
565
560
555
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_left_avg_correction_mean vs run
χ² / ndf 44.93 / 39
p0 −1093 ± 638.9
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.42
Std Dev 24.64
2
1
0
−1
−2


pull1D
Entries 40
Mean −0.02918
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_correction_rms vs run
χ² / ndf 4134 / 39
p0 406.1 ± 0.4518
520
500
480
460
440
420
400
380
360
340
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_left_avg_mean vs run
χ² / ndf 31.05 / 39
p0 1790 ± 1102
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 472.3
Std Dev 456.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean −0.005942
Std Dev 0.8811
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 452.4 / 39
p0 702.1 ± 0.7792
780
760
740
720
700
680
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
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6252. 0
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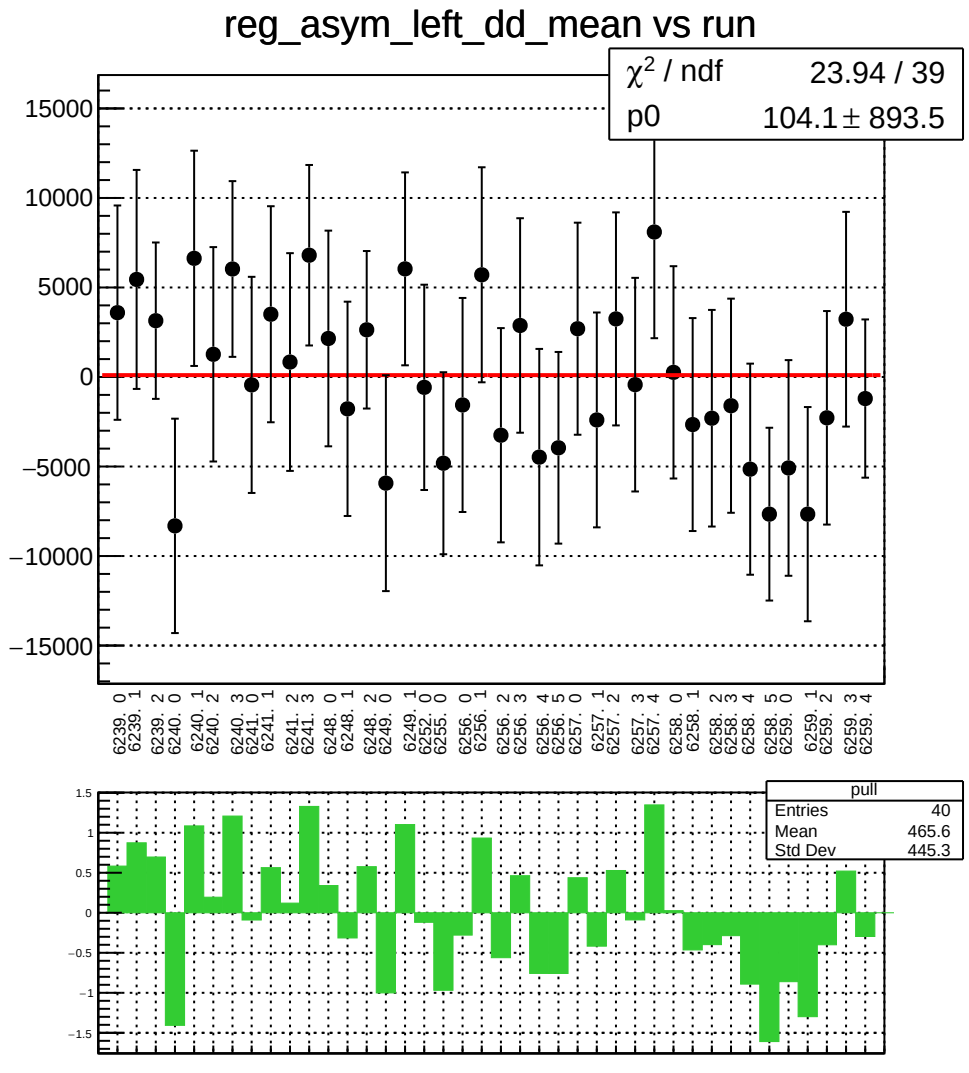
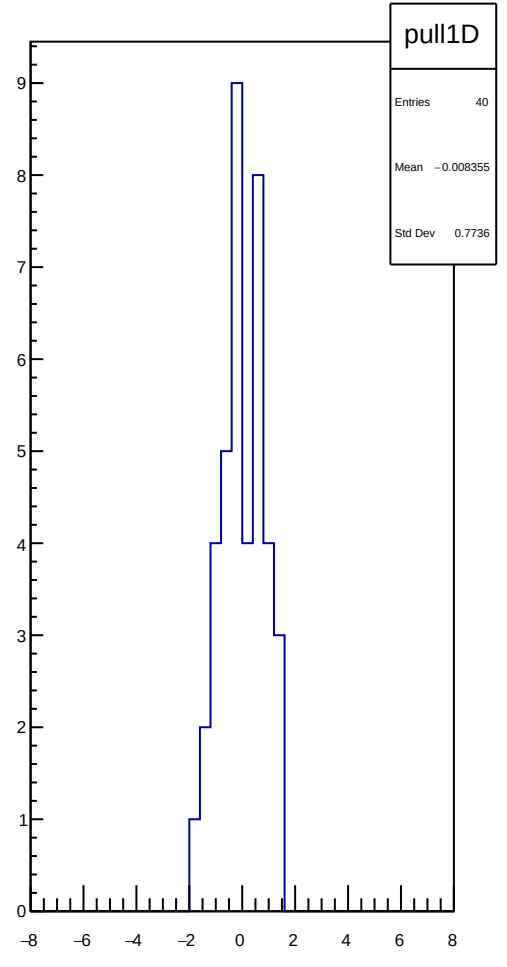
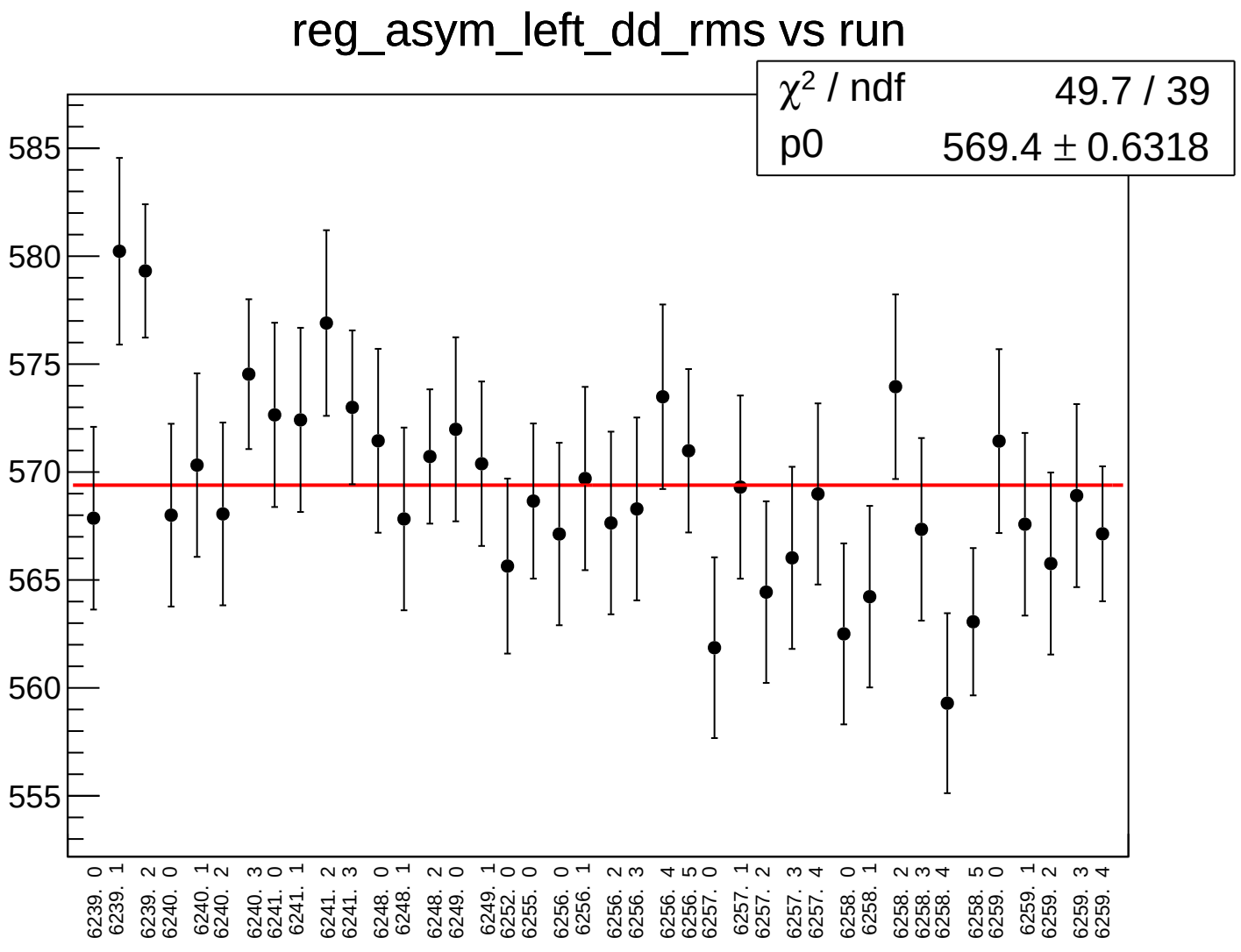
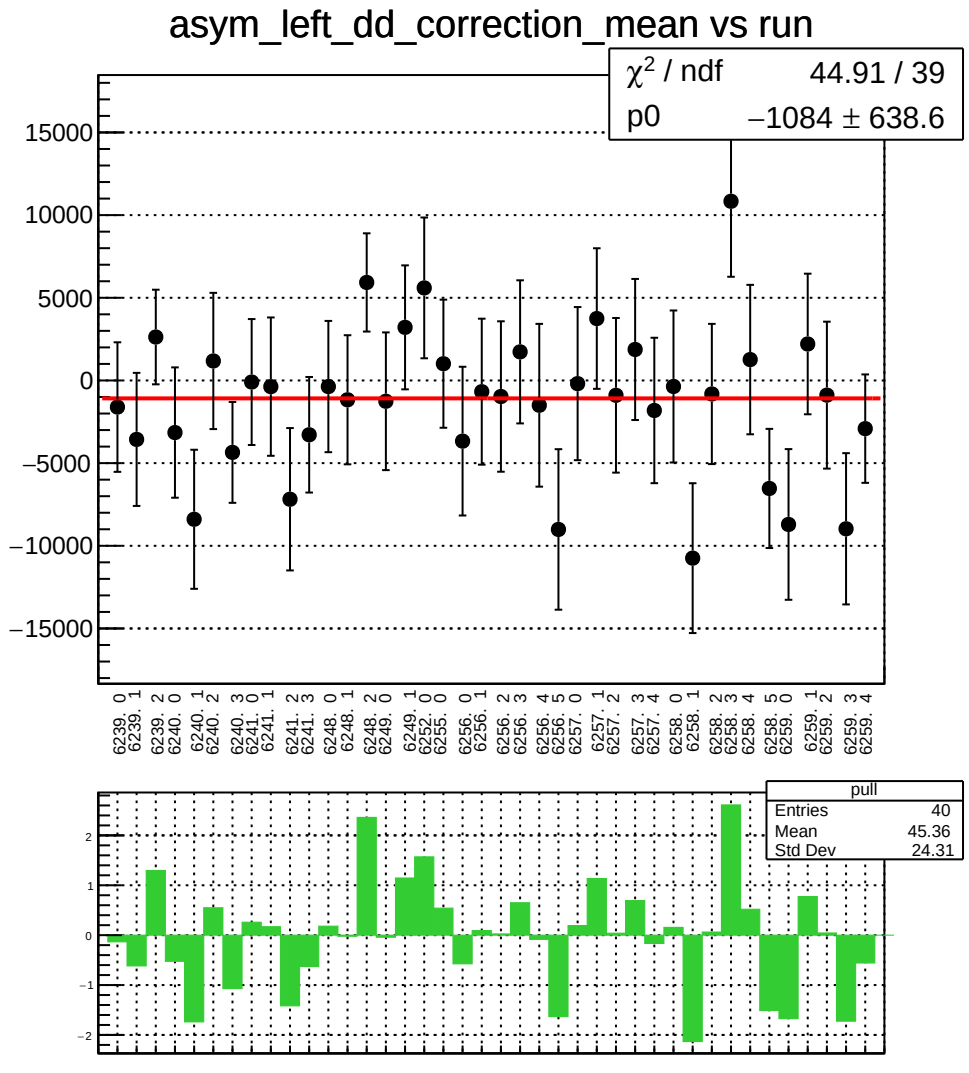
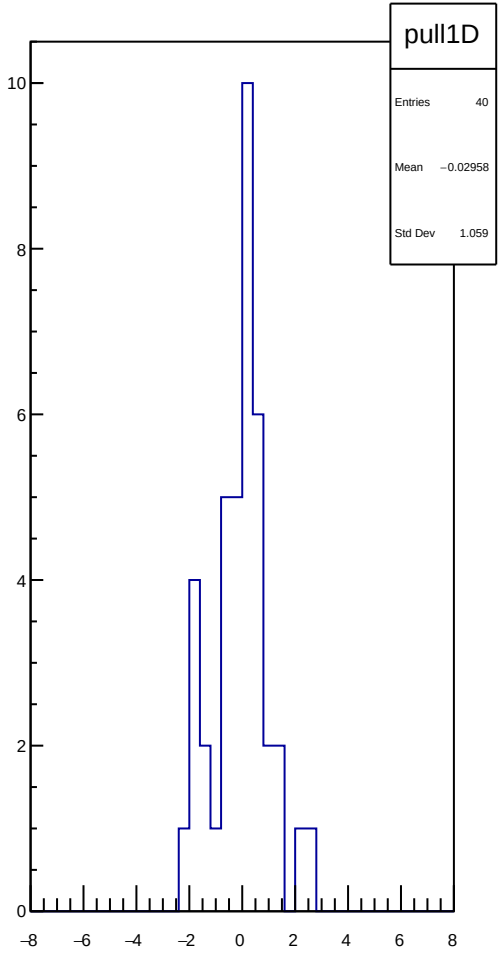
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

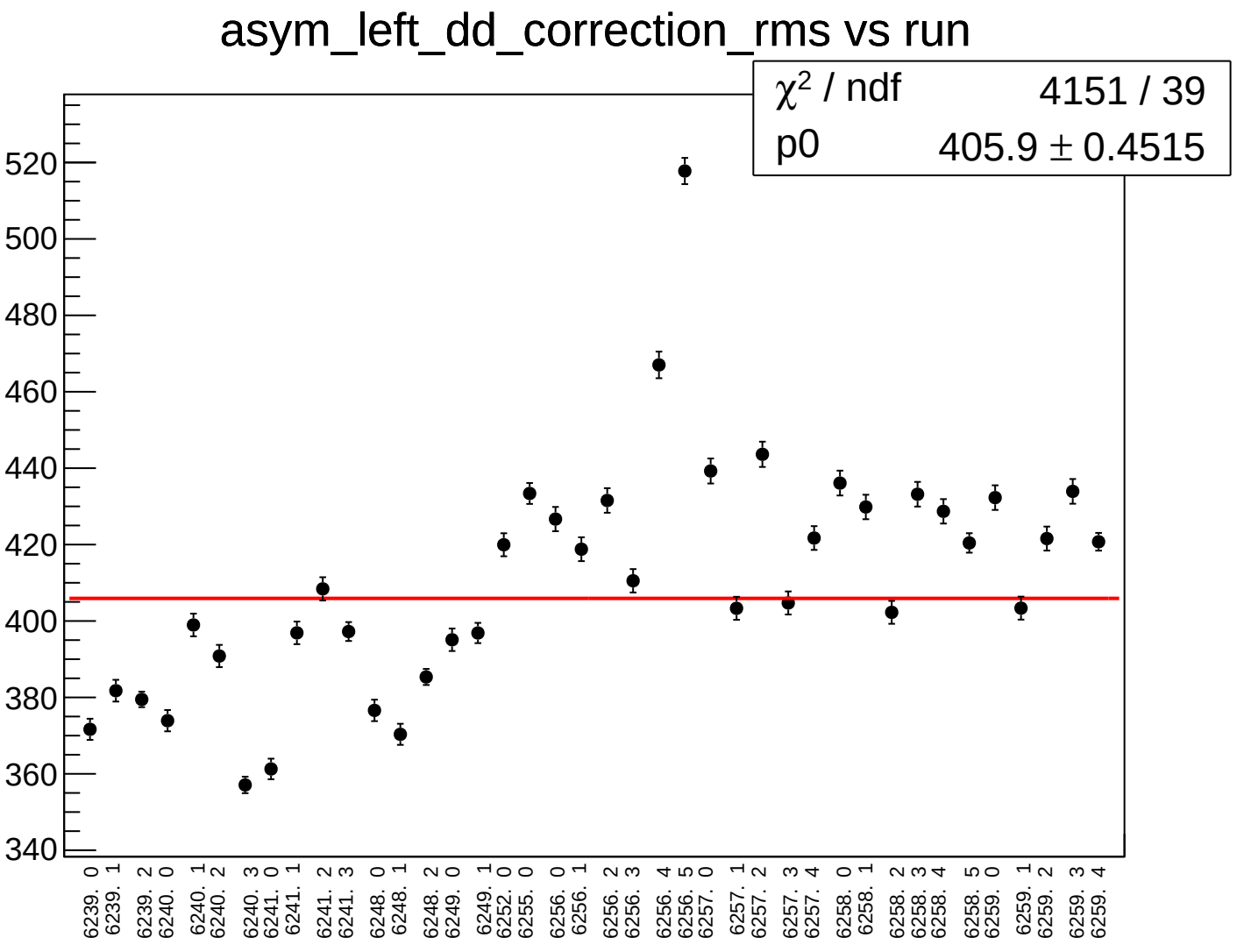

reg_asym_left_dd_mean vs run
χ² / ndf 23.94 / 39
p0 104.1 ± 893.5
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 465.6
Std Dev 445.3
1.5
1
0.5
0
−0.5
−1
−1.5

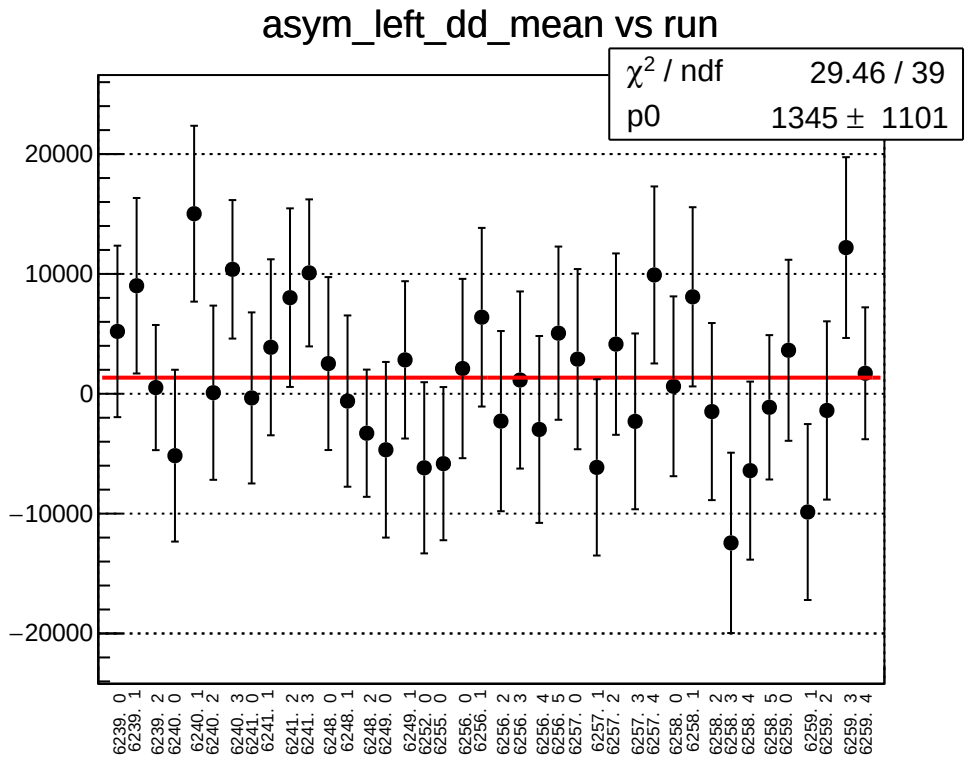

pull1D
Entries 40
Mean −0.008355
Std Dev 0.7736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

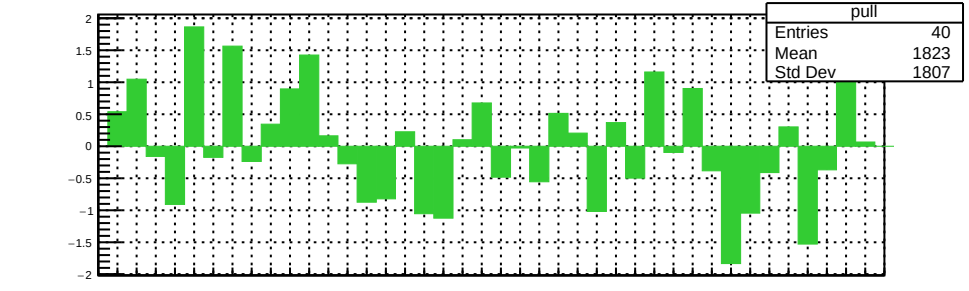

reg_asym_left_dd_rms vs run
χ² / ndf 49.7 / 39
p0 569.4 ± 0.6318
585
580
575
570
565
560
555
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

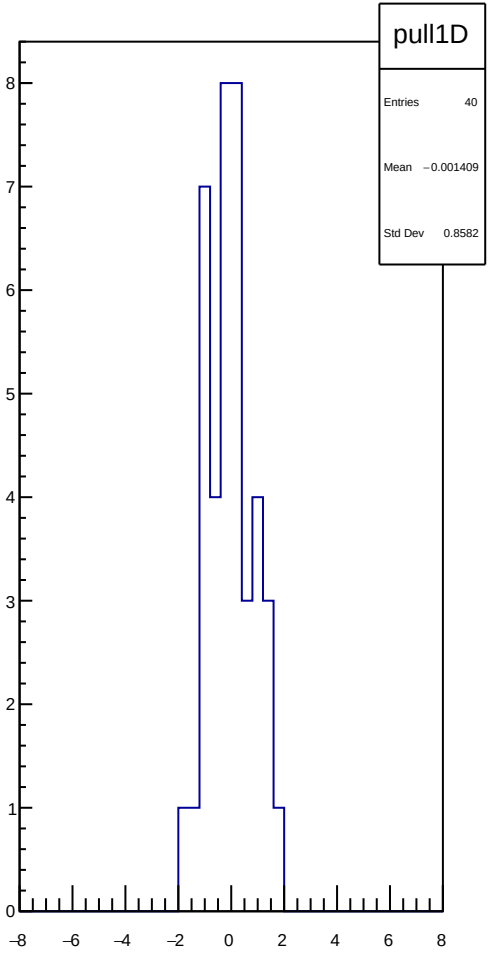

asym_left_dd_correction_mean vs run
χ² / ndf 44.91 / 39
p0 −1084 ± 638.6
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.36
Std Dev 24.31
2
1
0
−1
−2

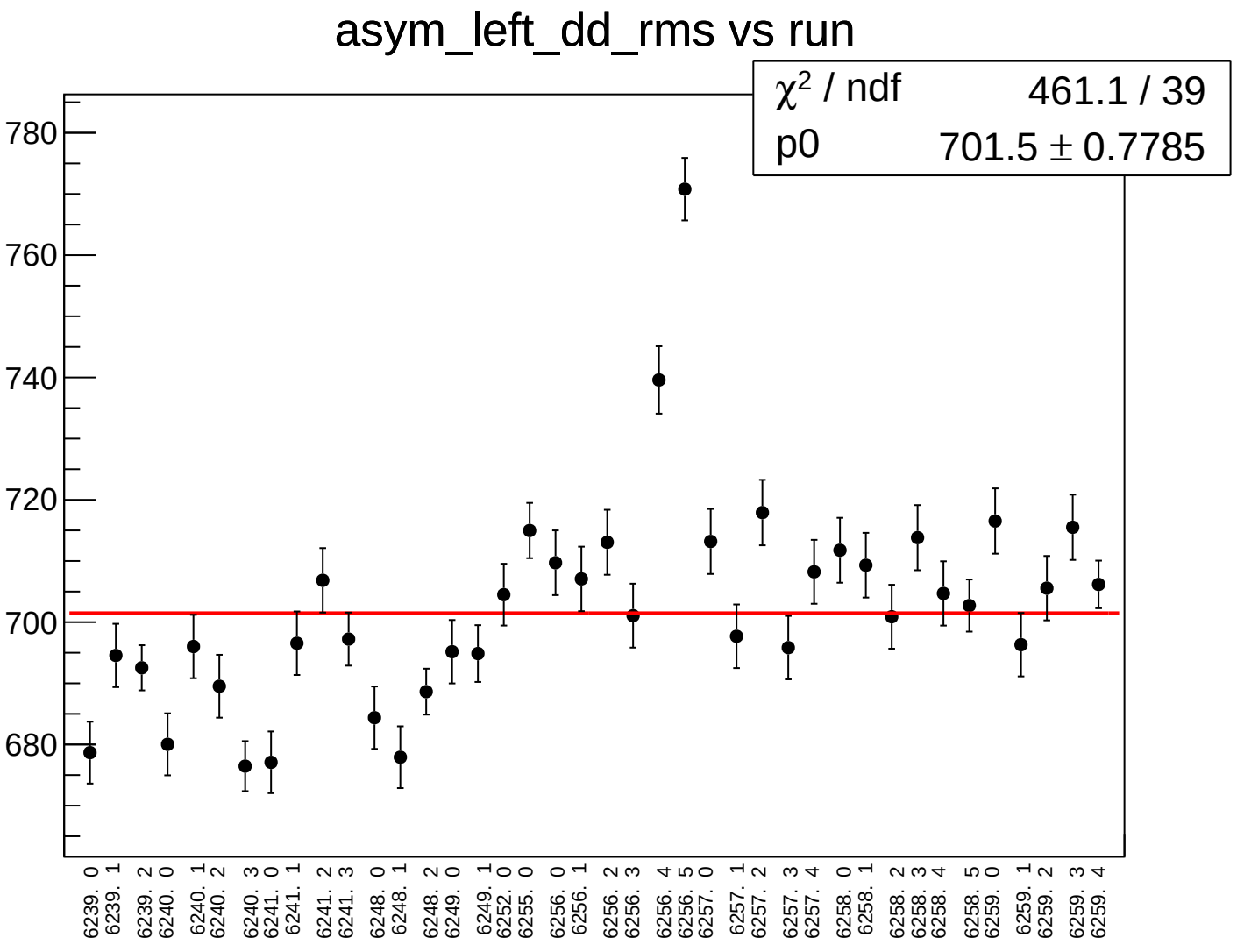

pull1D
Entries 40
Mean −0.02958
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

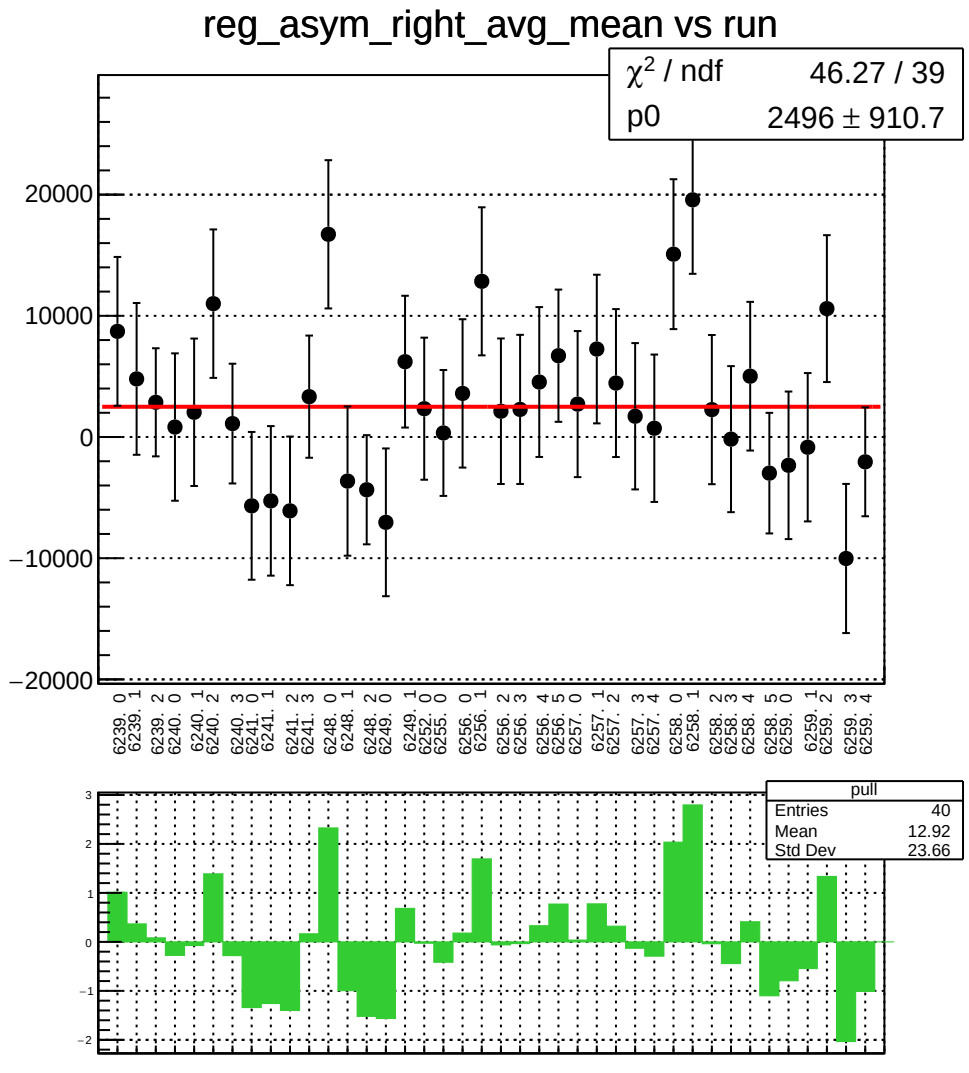

asym_left_dd_correction_rms vs run
χ² / ndf 4151 / 39
p0 405.9 ± 0.4515
520
500
480
460
440
420
400
380
360
340
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

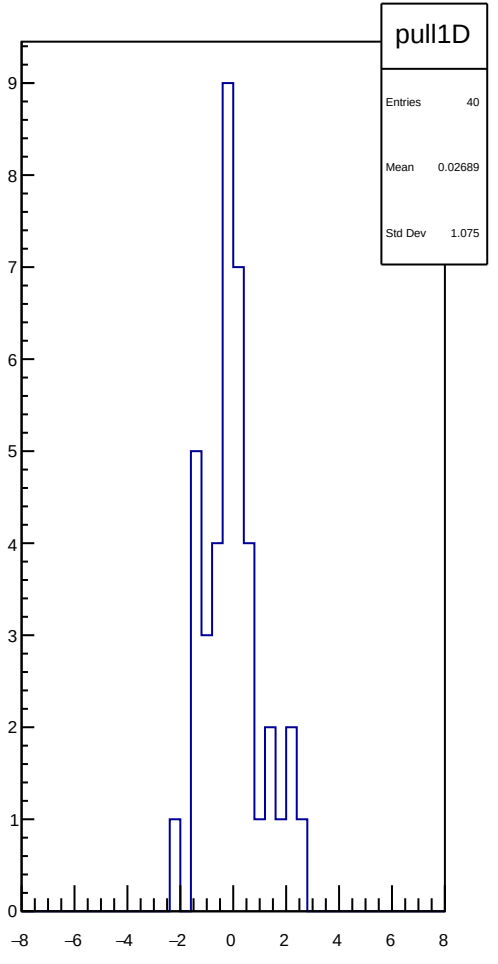

asym_left_dd_mean vs run
χ² / ndf 29.46 / 39
p0 1345 ± 1101
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

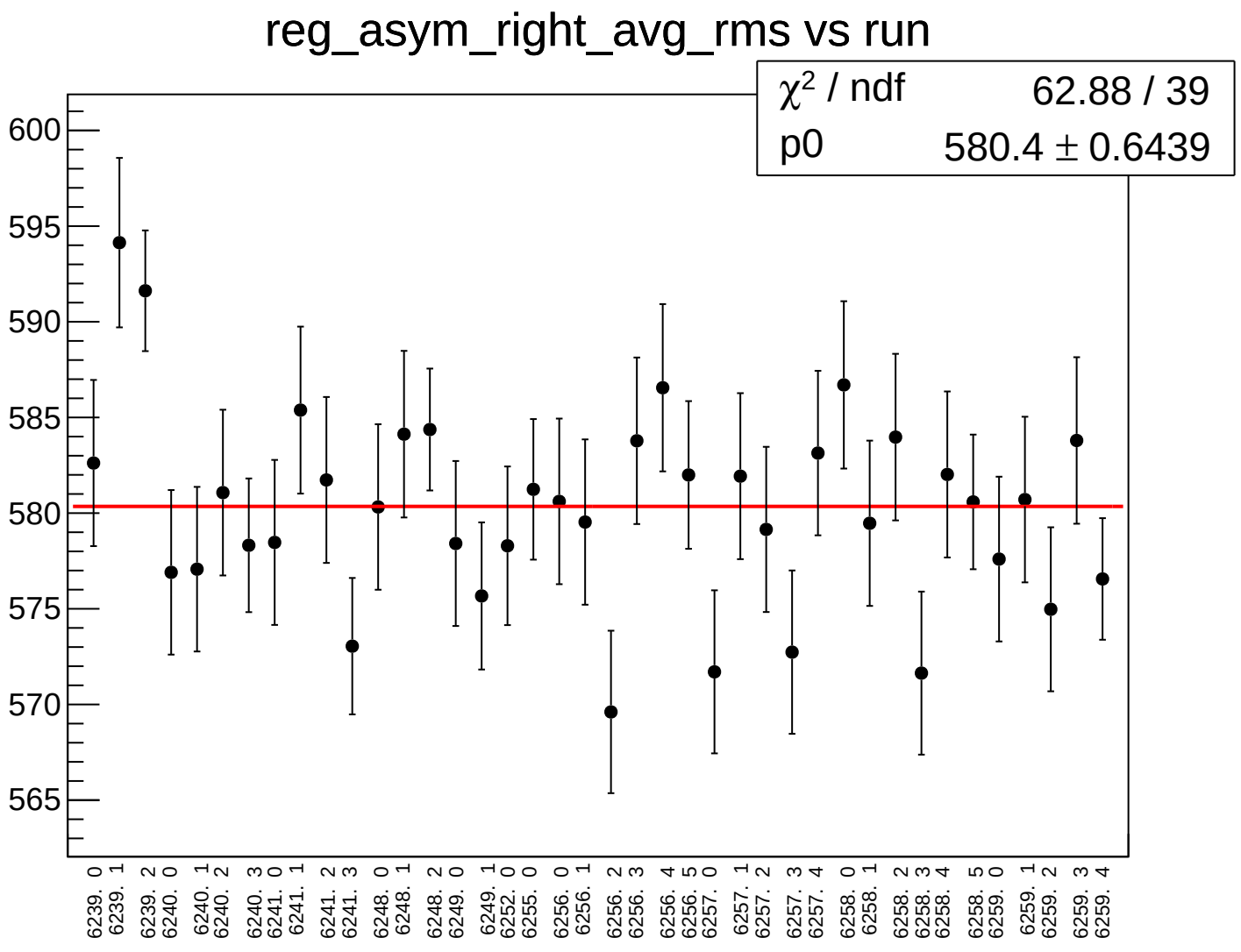

pull
Entries 40
Mean 1823
Std Dev 1807
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

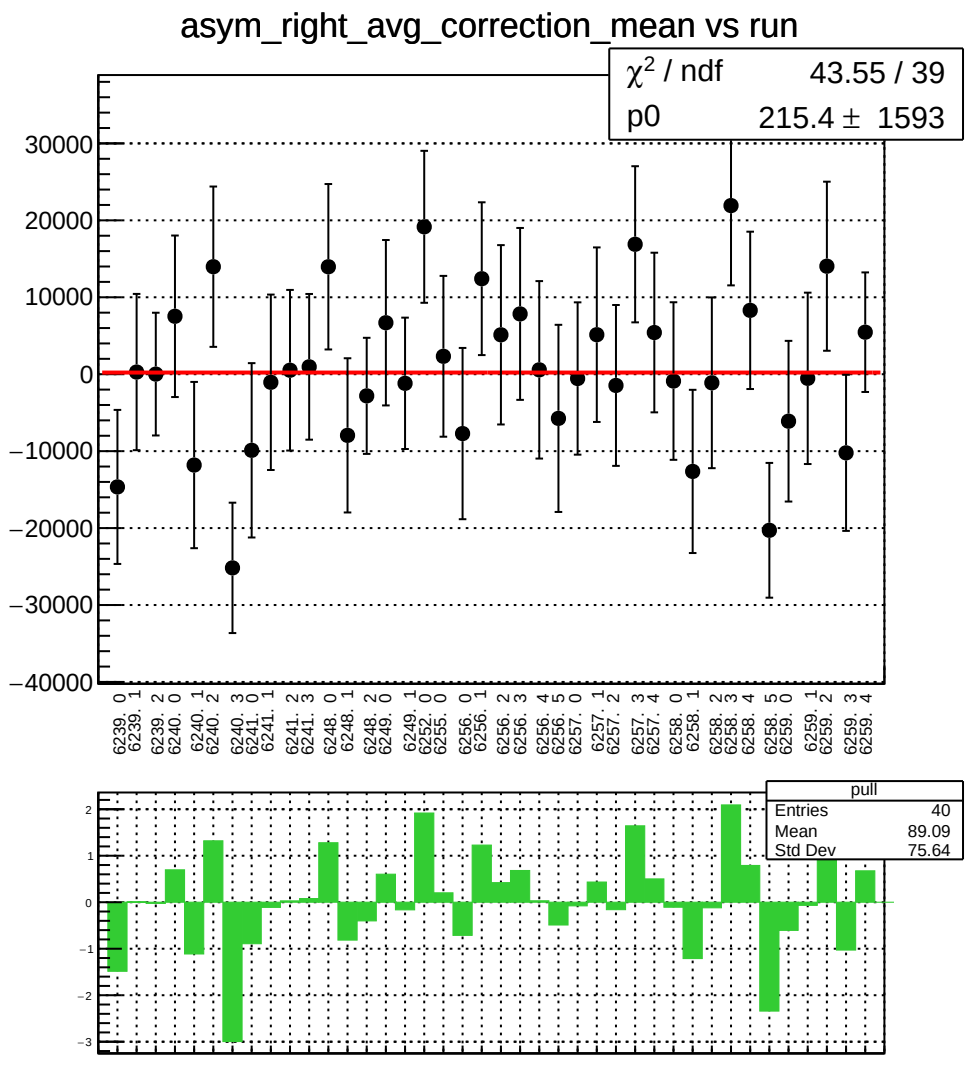

pull1D
Entries 40
Mean −0.001409
Std Dev 0.8582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

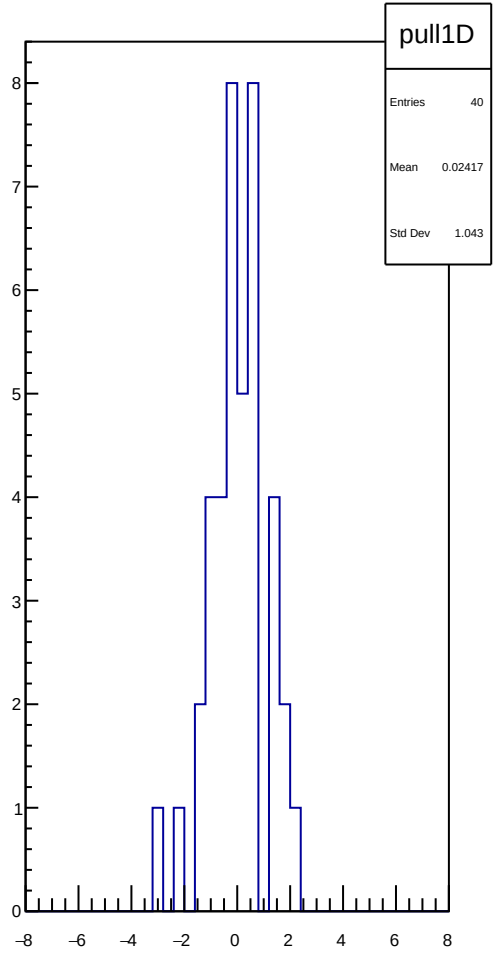

asym_left_dd_rms vs run
χ² / ndf 461.1 / 39
p0 701.5 ± 0.7785
780
760
740
720
700
680
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

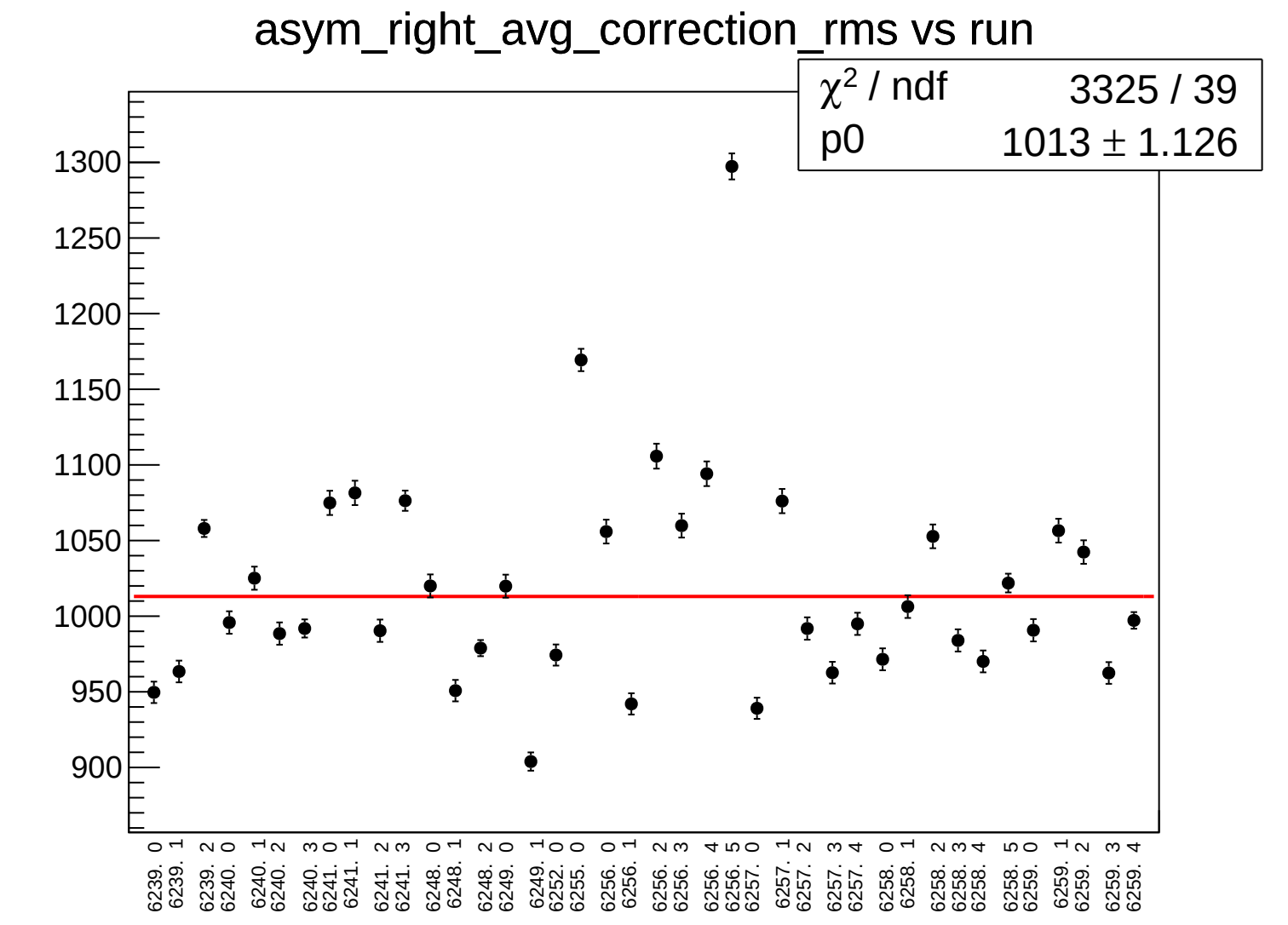

reg_asym_right_avg_mean vs run
χ² / ndf 46.27 / 39
p0 2496 ± 910.7
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 12.92
Std Dev 23.66
3
2
1
0
−1
−2

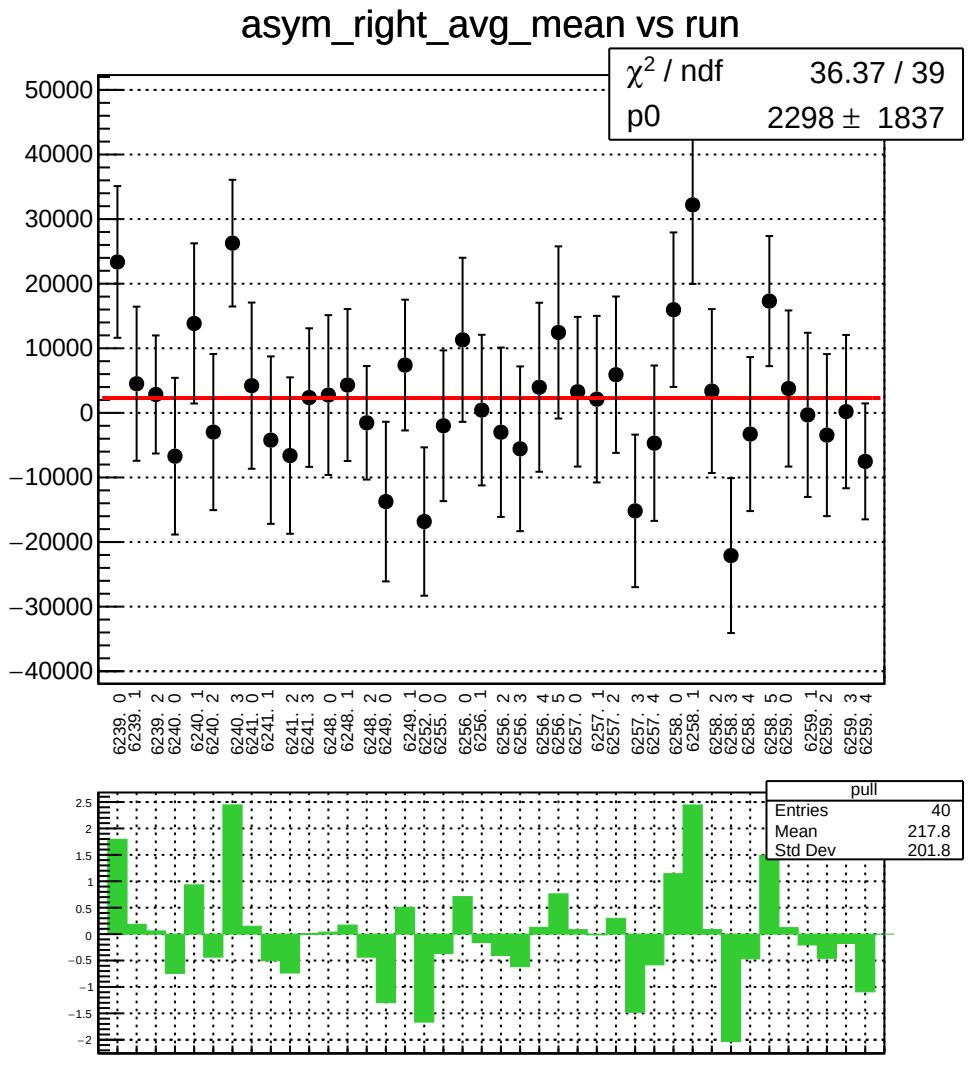

pull1D
Entries 40
Mean 0.02689
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

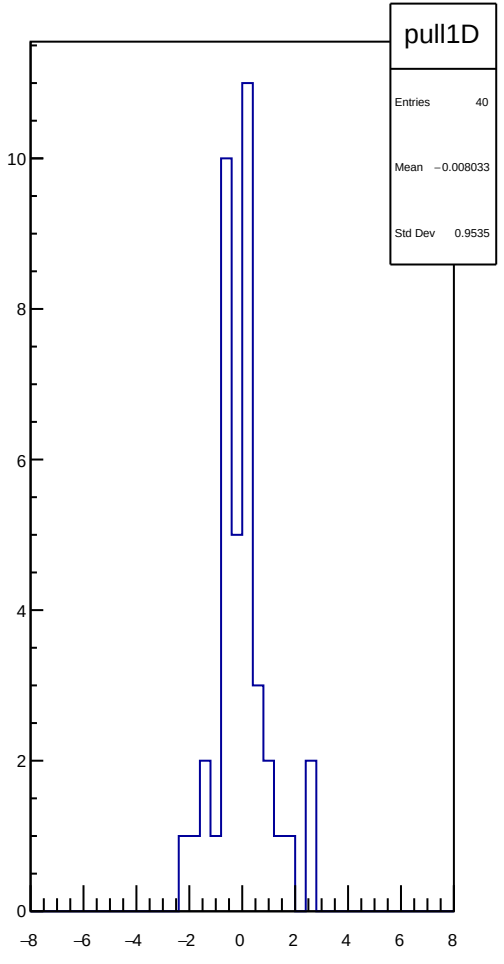

reg_asym_right_avg_rms vs run
$\chi^2$ / ndf 62.88 / 39
p0 580.4 ± 0.6439
600
595
590
585
580
575
570
565
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

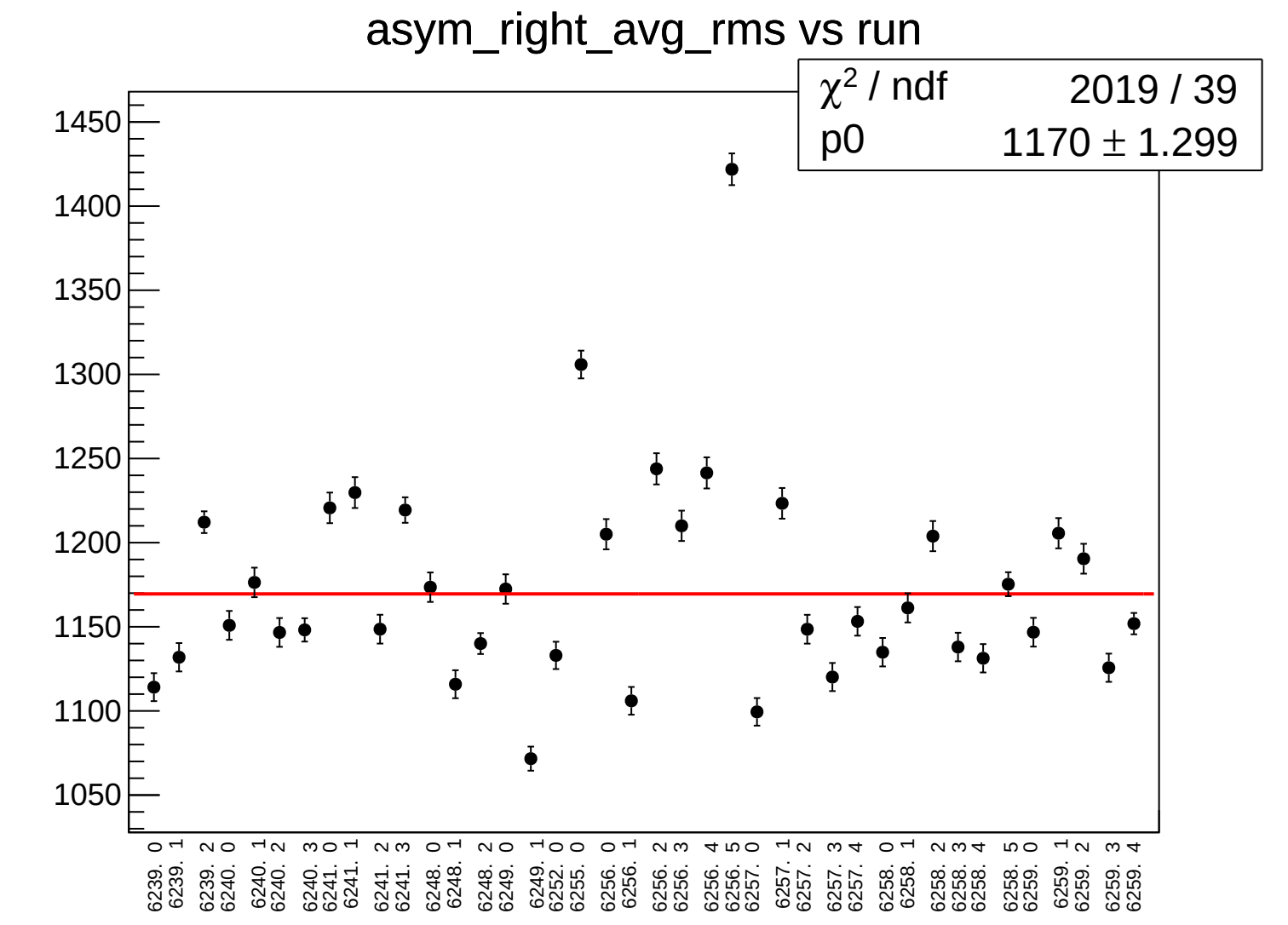

asym_right_avg_correction_mean vs run
χ² / ndf 43.55 / 39
p0 215.4 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 89.09
Std Dev 75.64
2
1
0
−1
−2
−3

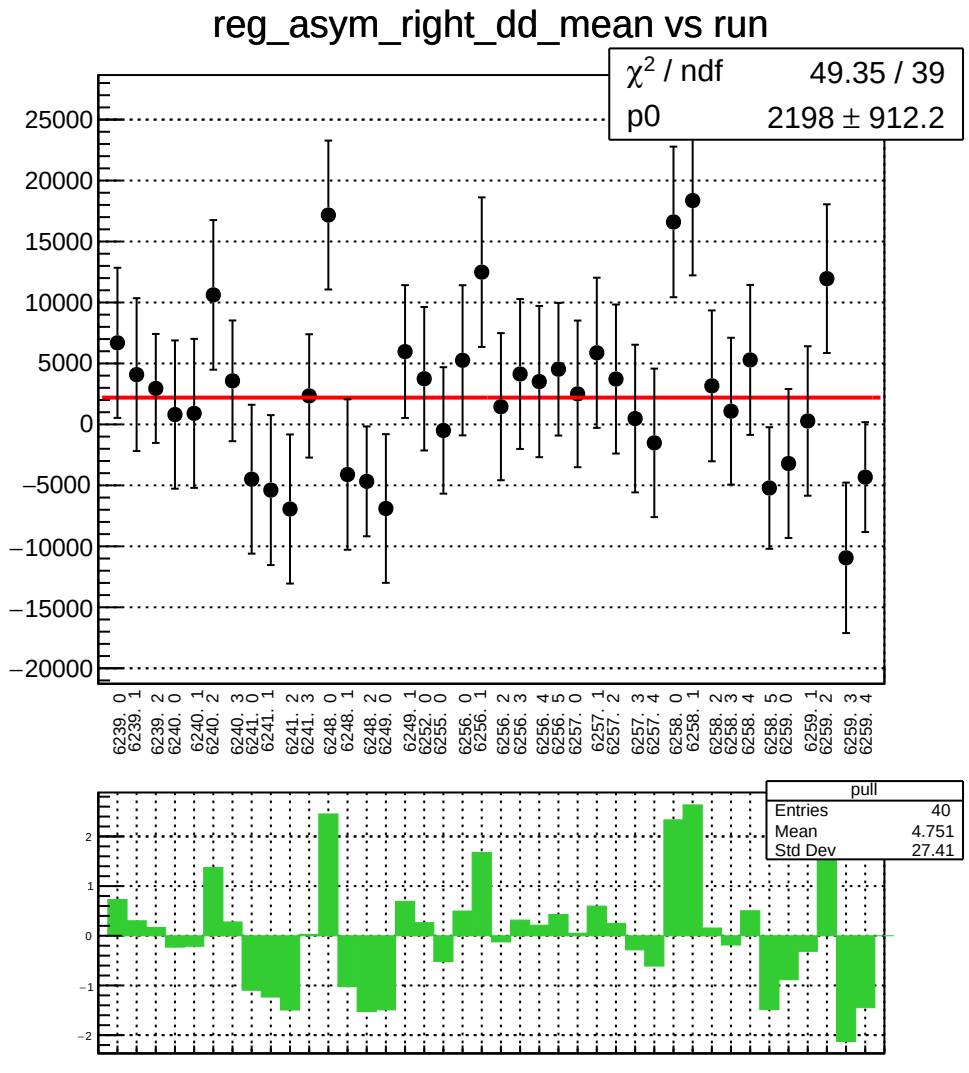

pull1D
Entries 40
Mean 0.02417
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

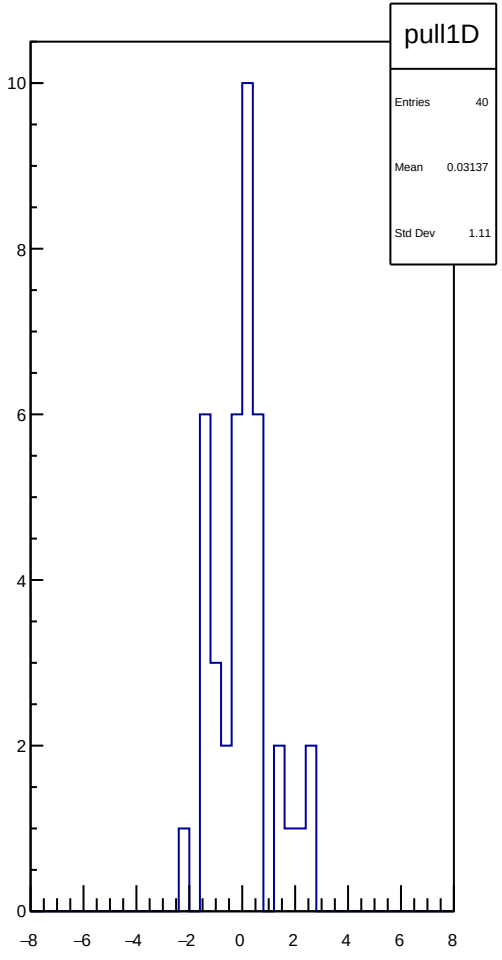

asym_right_avg_correction_rms vs run
χ² / ndf 3325 / 39
p0 1013 ± 1.126
1300
1250
1200
1150
1100
1050
1000
950
900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

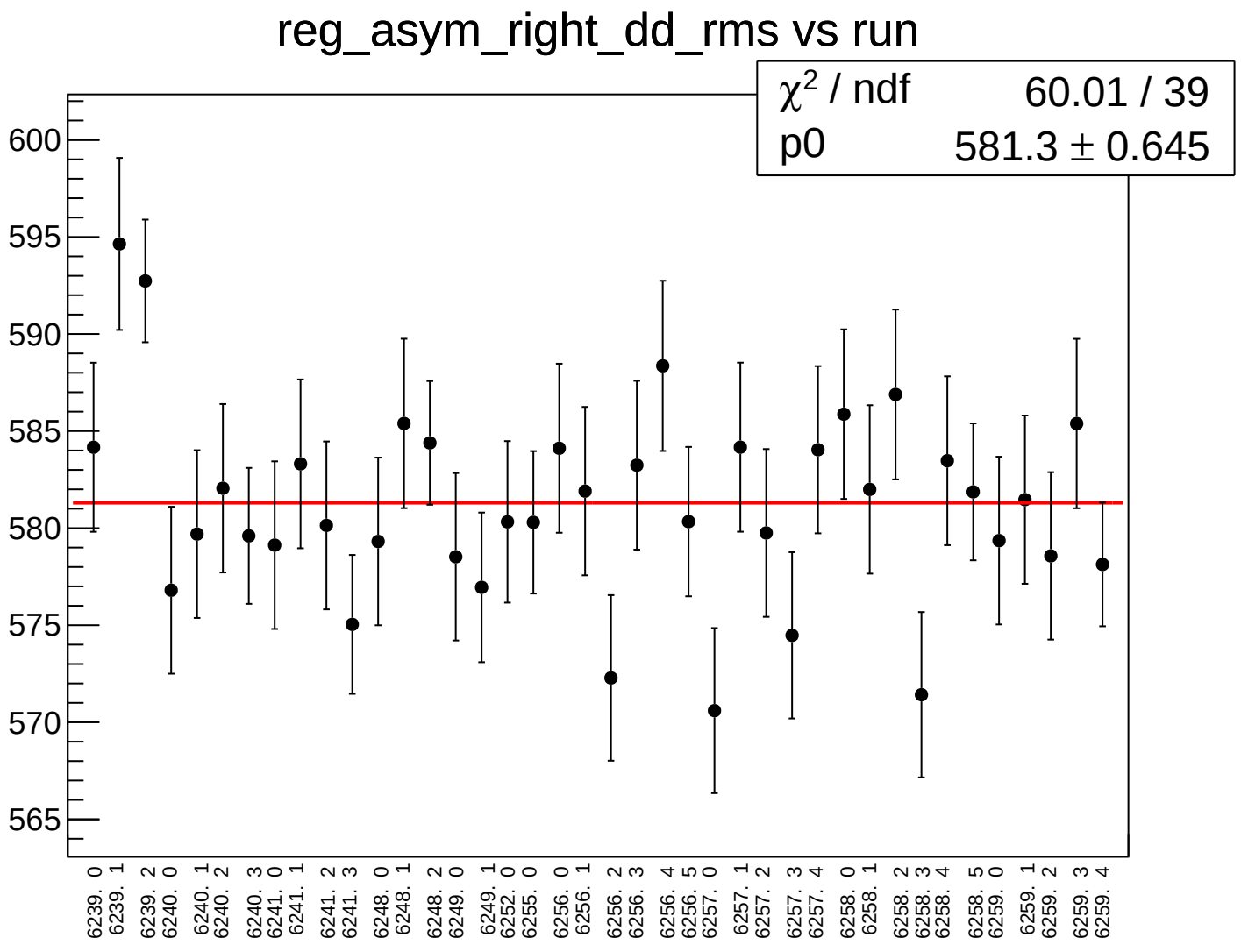

asym_right_avg_mean vs run
χ² / ndf 36.37 / 39
p0 2298 ± 1837
pull
Entries 40
Mean 217.8
Std Dev 201.8

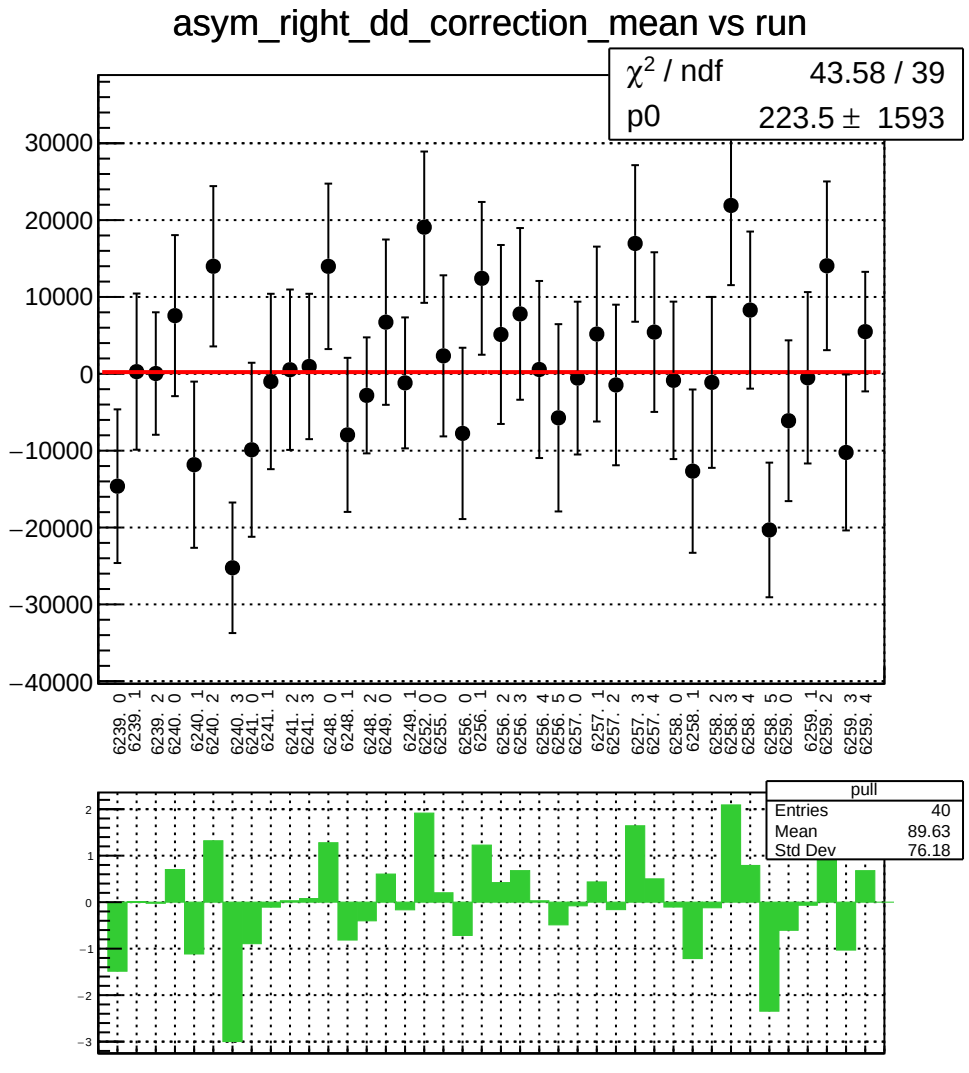

pull1D
Entries 40
Mean −0.008033
Std Dev 0.9535

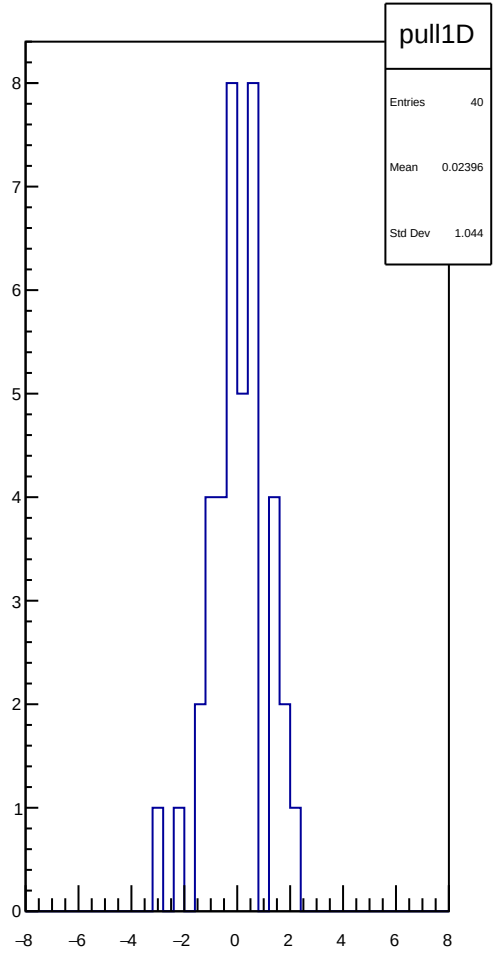

asym_right_avg_rms vs run
χ² / ndf 2019 / 39
p0 1170 ± 1.299
1450
1400
1350
1300
1250
1200
1150
1100
1050
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

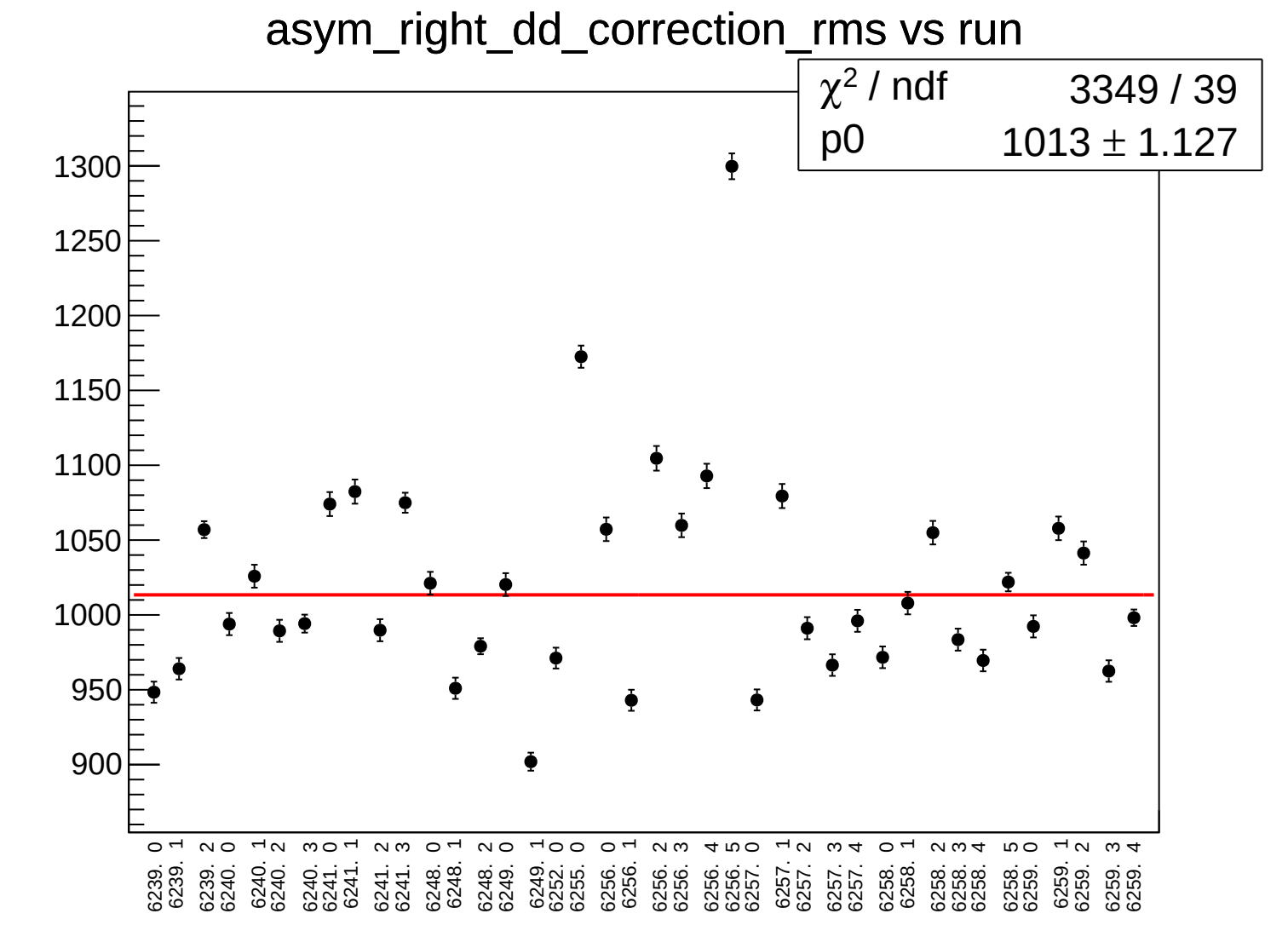

reg_asym_right_dd_mean vs run
χ² / ndf 49.35 / 39
p0 2198 ± 912.2
pull
Entries 40
Mean 4.751
Std Dev 27.41

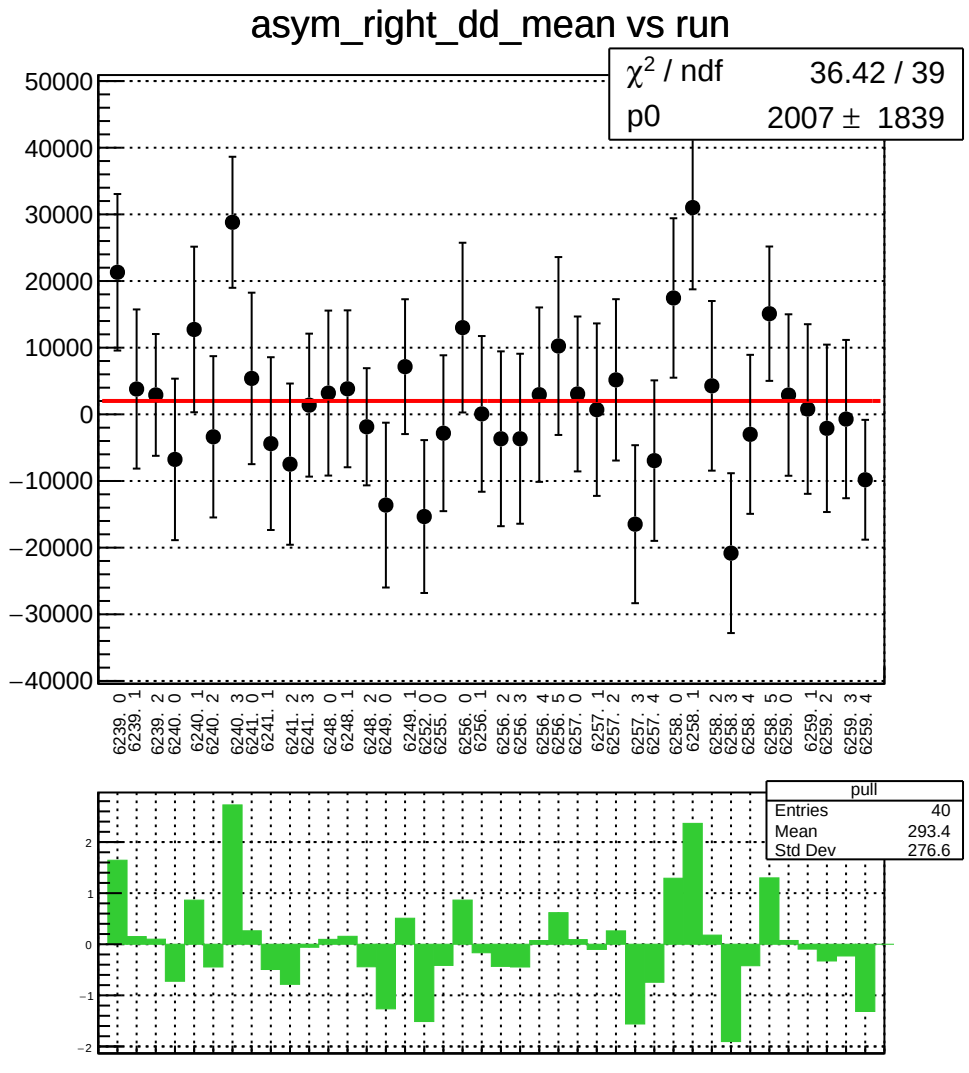

pull1D
Entries 40
Mean 0.03137
Std Dev 1.11

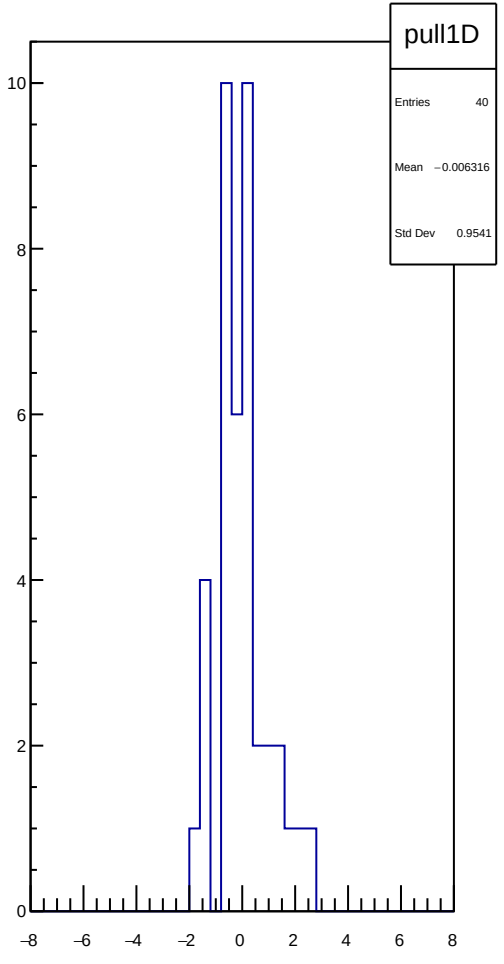

reg_asym_right_dd_rms vs run
χ² / ndf 60.01 / 39
p0 581.3 ± 0.645
600
595
590
585
580
575
570
565
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

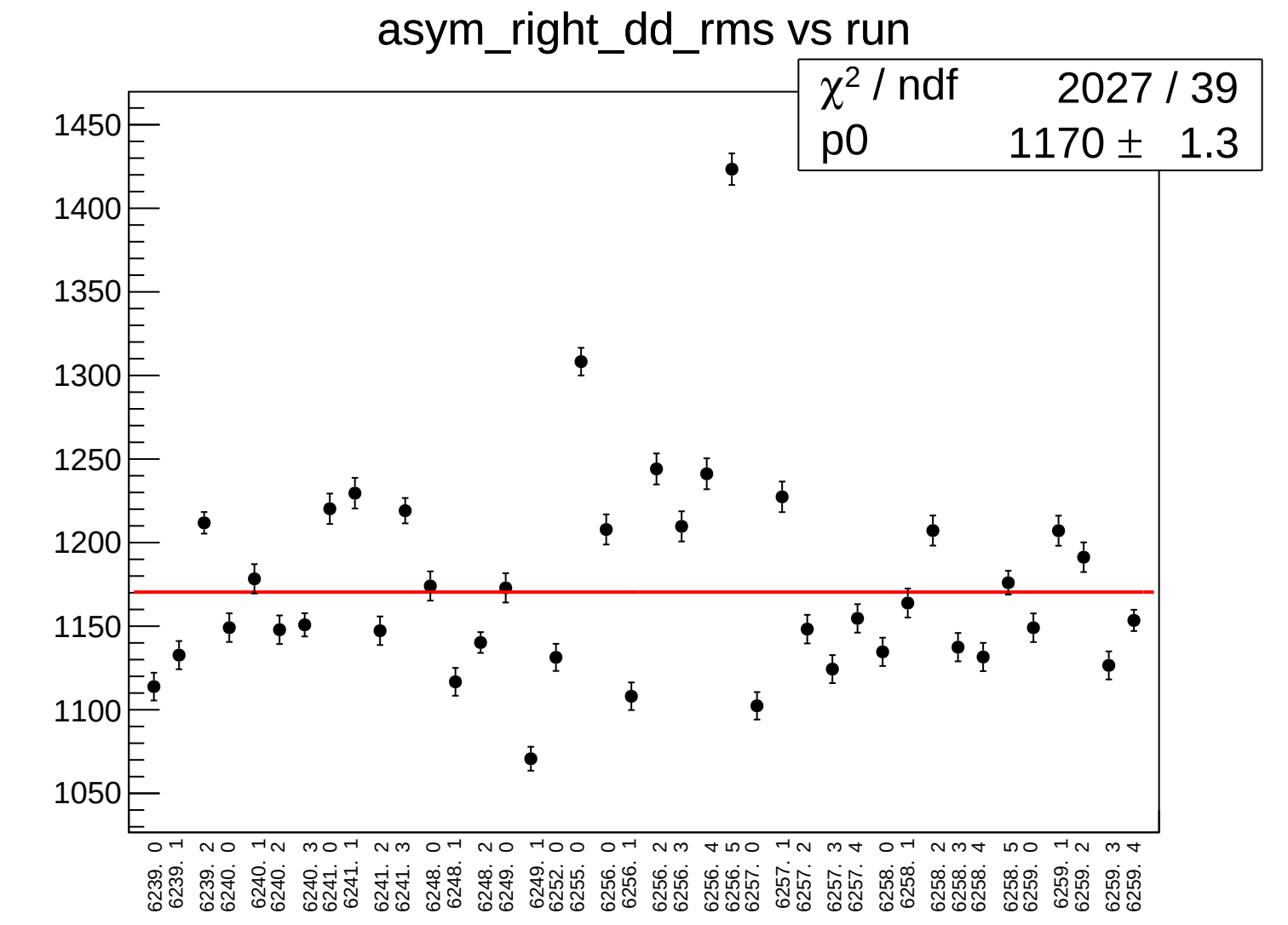

asym_right_dd_correction_mean vs run
χ² / ndf 43.58 / 39
p0 223.5 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 89.63
Std Dev 76.18
2
1
0
−1
−2
−3

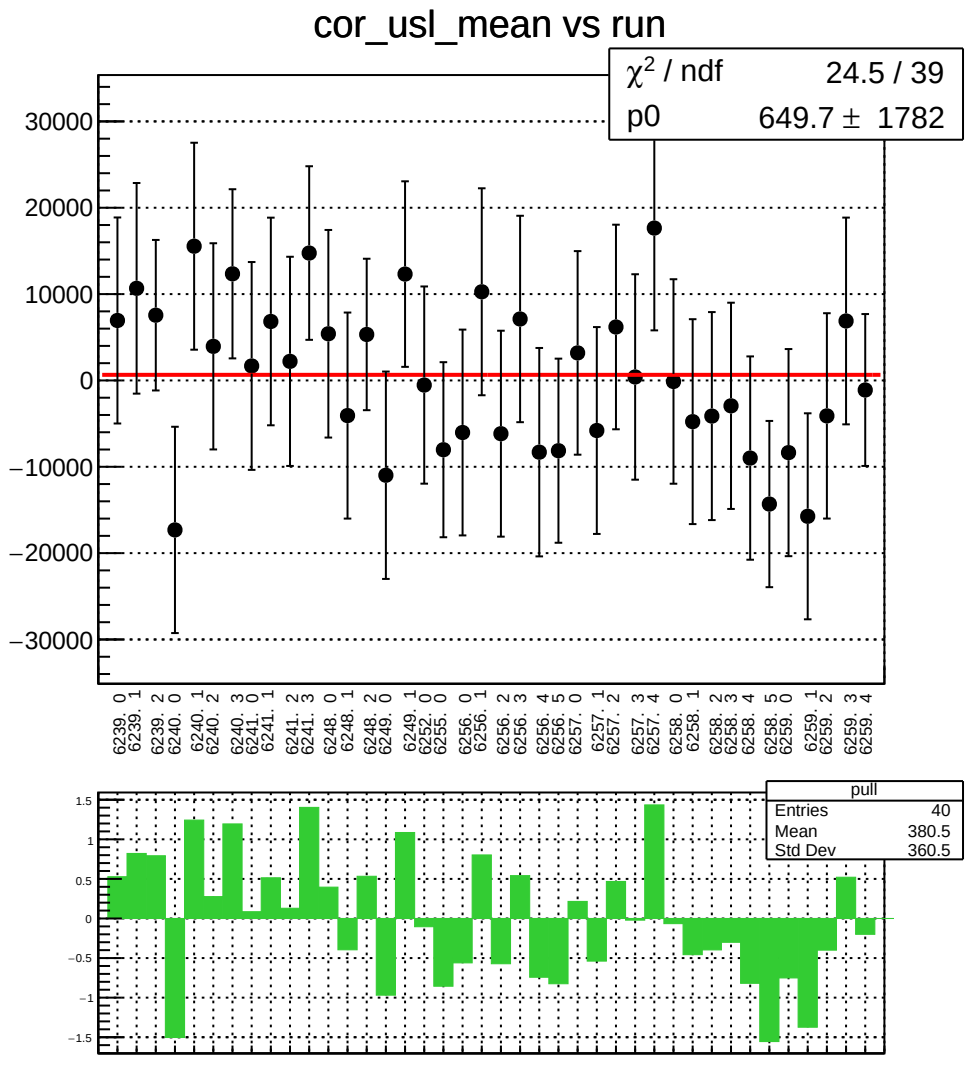

pull1D
Entries 40
Mean 0.02396
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

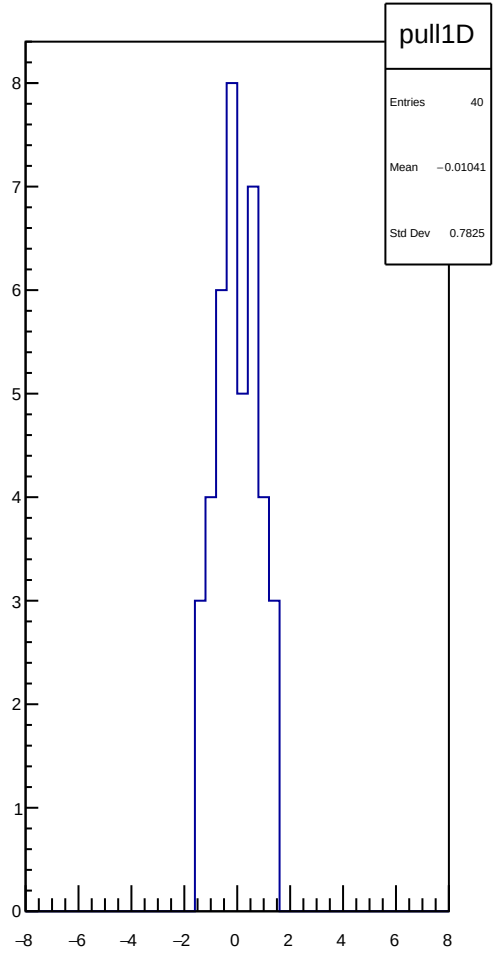

asym_right_dd_correction_rms vs run
χ² / ndf 3349 / 39
p0 1013 ± 1.127
1300
1250
1200
1150
1100
1050
1000
950
900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

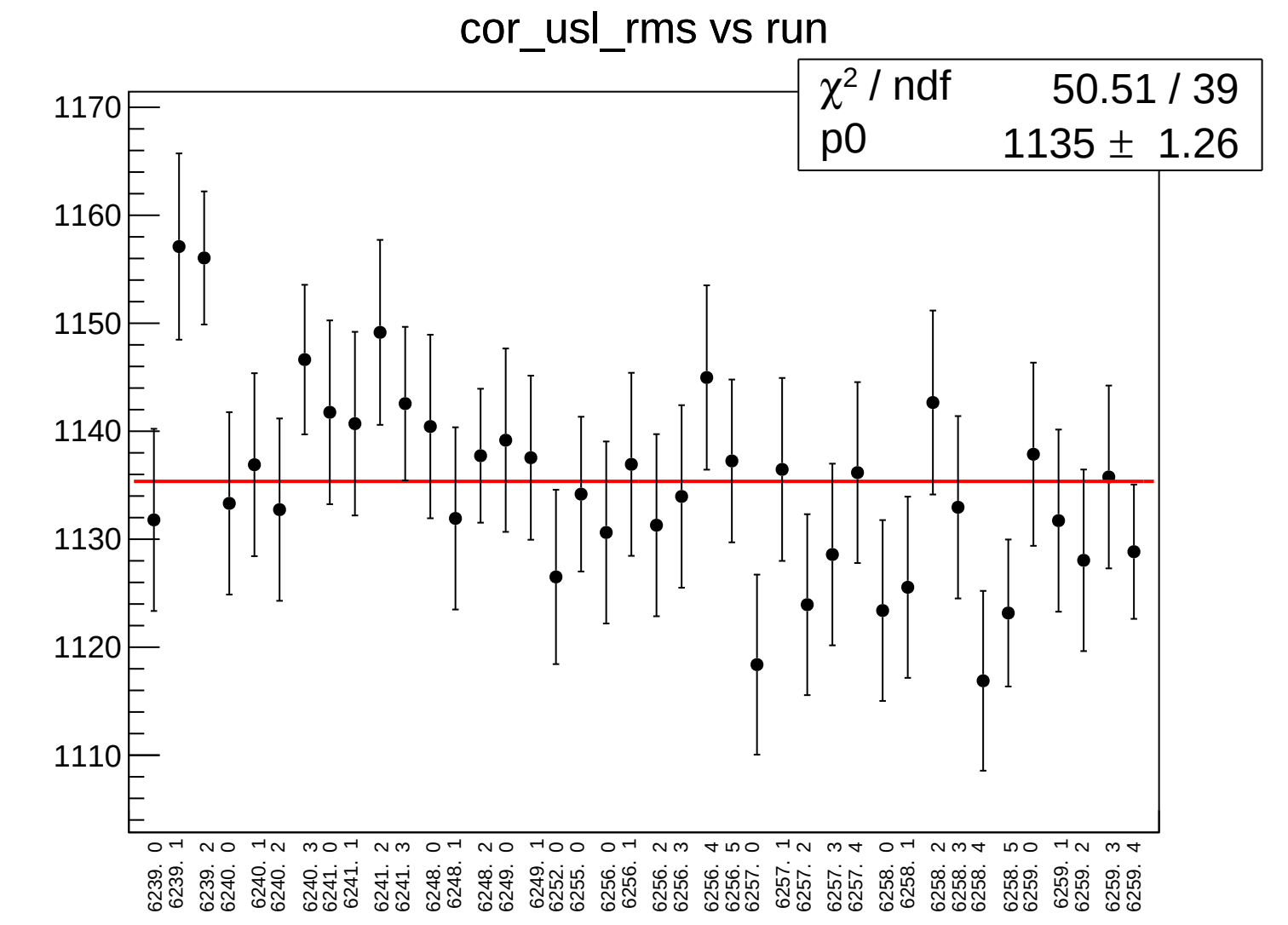

asym_right_dd_mean vs run
χ² / ndf 36.42 / 39
p0 2007 ± 1839
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 293.4
Std Dev 276.6
2
1
0
−1
−2

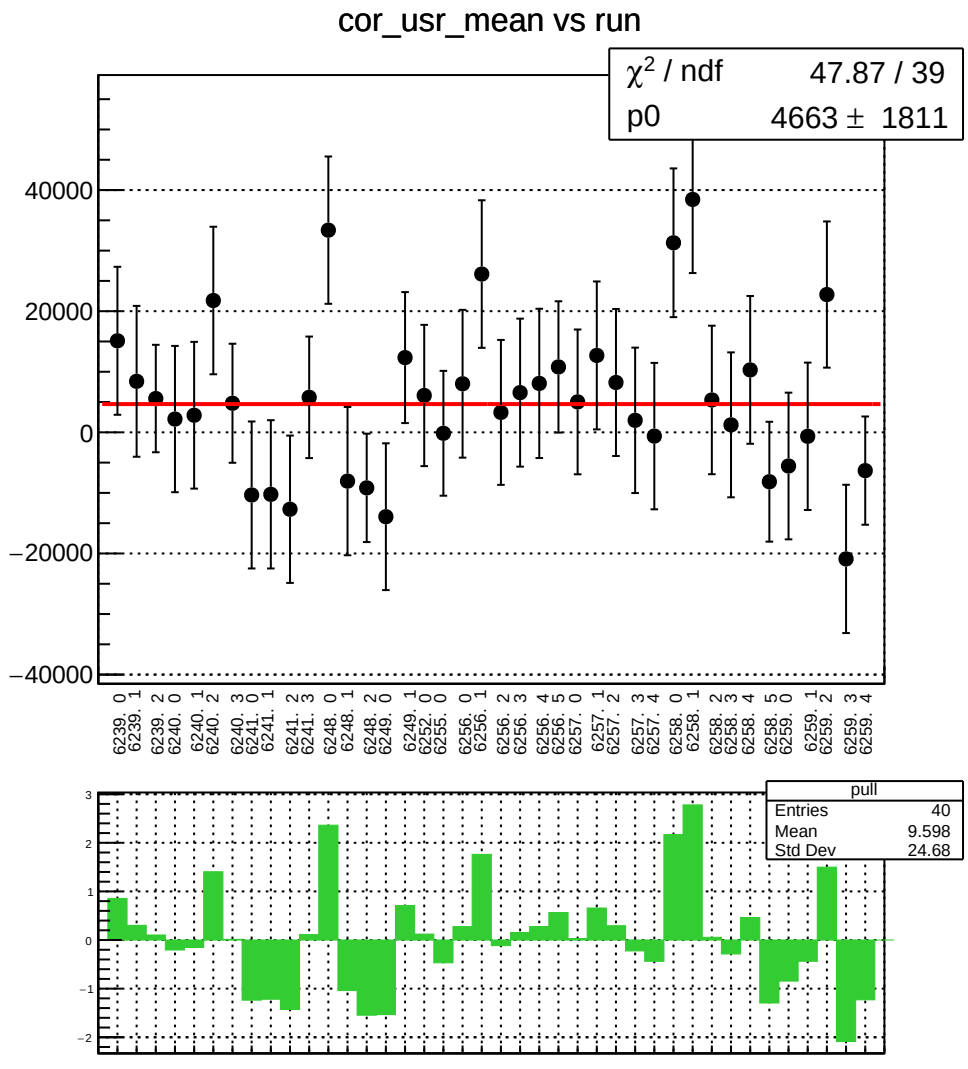

pull1D
Entries 40
Mean −0.006316
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

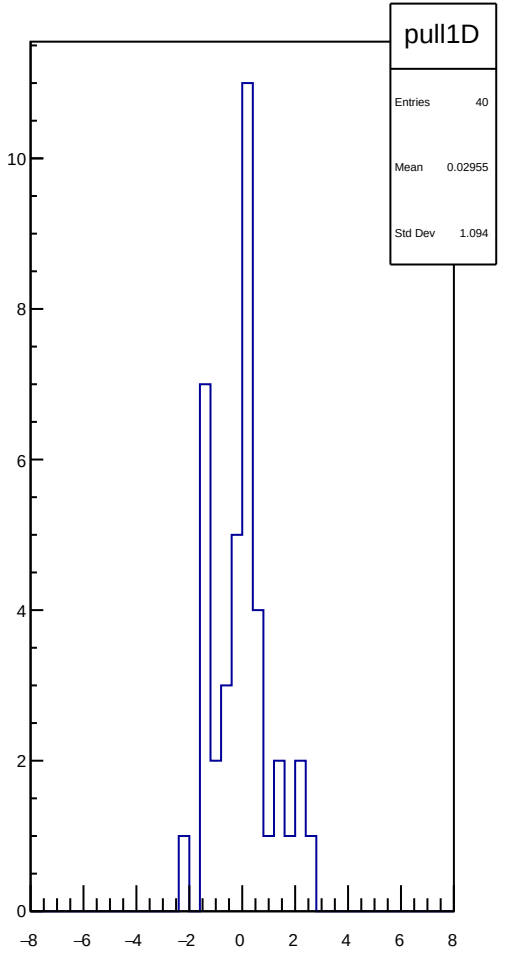

asym_right_dd_rms vs run
χ² / ndf 2027 / 39
p0 1170 ± 1.3
1450
1400
1350
1300
1250
1200
1150
1100
1050
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

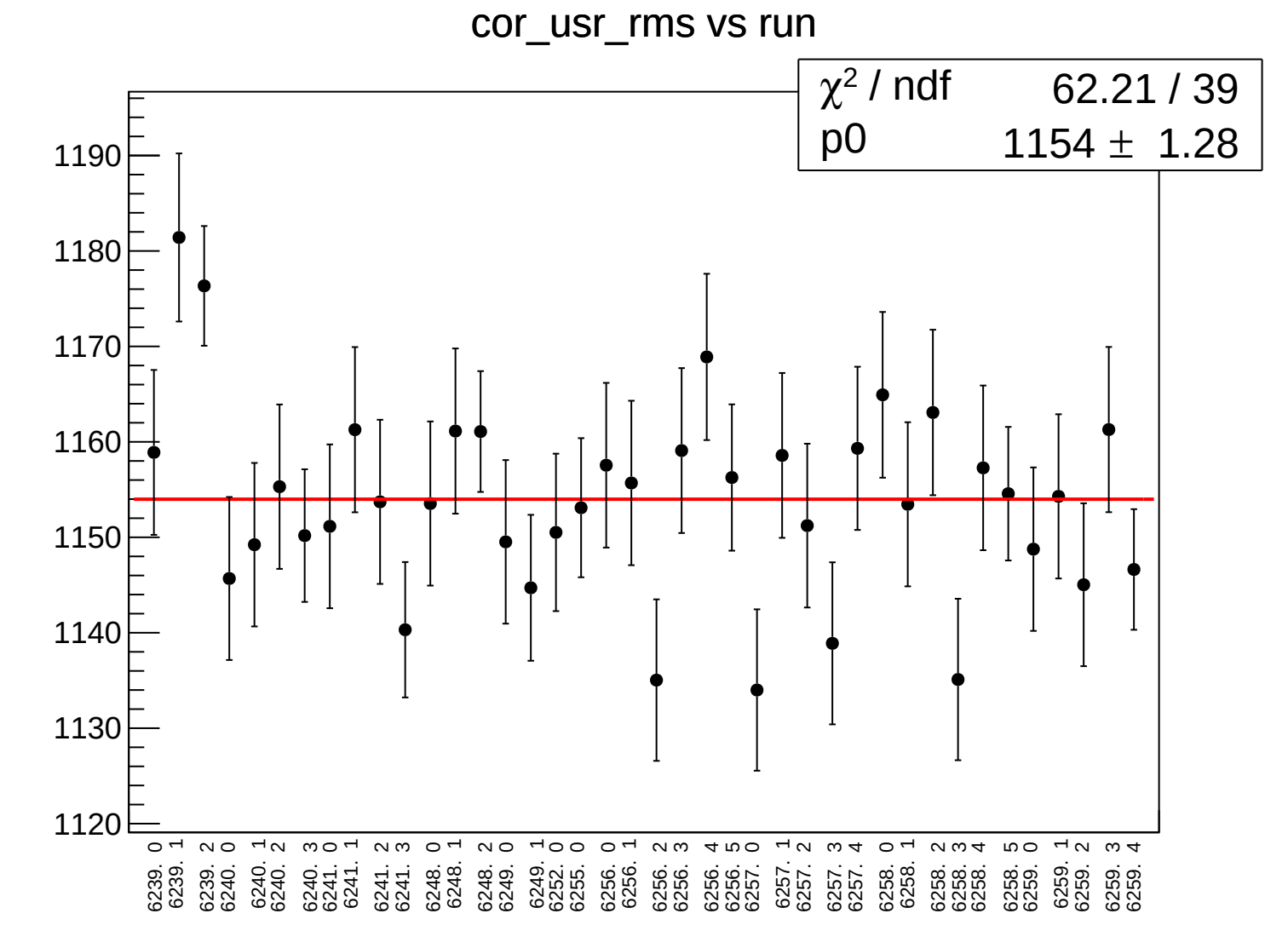

cor_usl_mean vs run
χ² / ndf 24.5 / 39
p0 649.7 ± 1782
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 380.5
Std Dev 360.5
1.5
1
0.5
0
−0.5
−1
−1.5

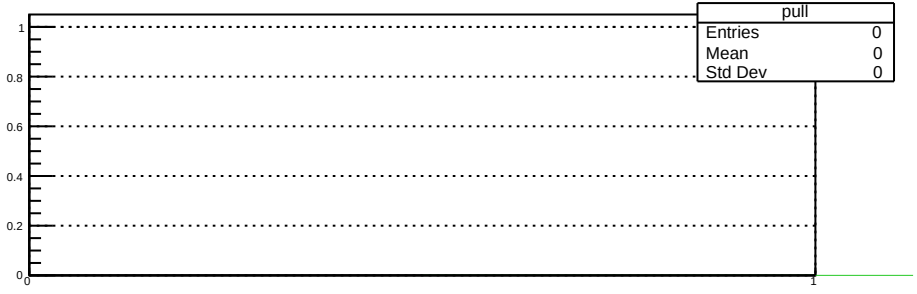

pull1D
Entries 40
Mean −0.01041
Std Dev 0.7825
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

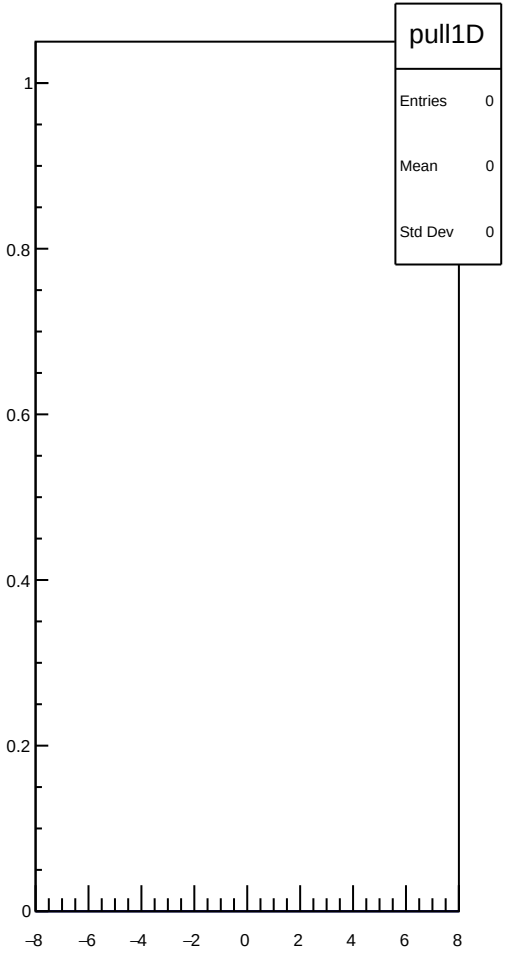

cor_usl_rms vs run
χ² / ndf 50.51 / 39
p0 1135 ± 1.26
1170
1160
1150
1140
1130
1120
1110
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

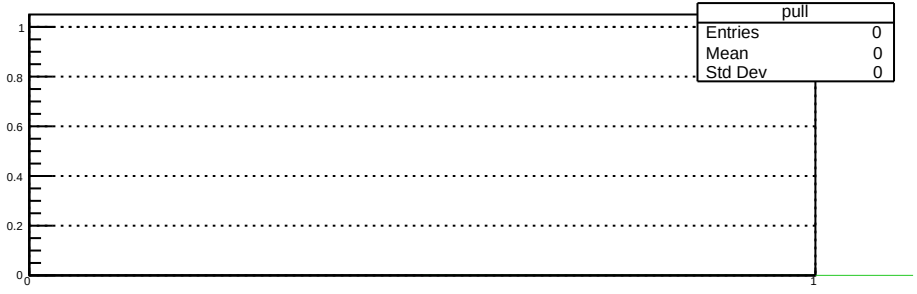

cor_usr_mean vs run
χ² / ndf 47.87 / 39
p0 4663 ± 1811
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 9.598
Std Dev 24.68
3
2
1
0
−1
−2

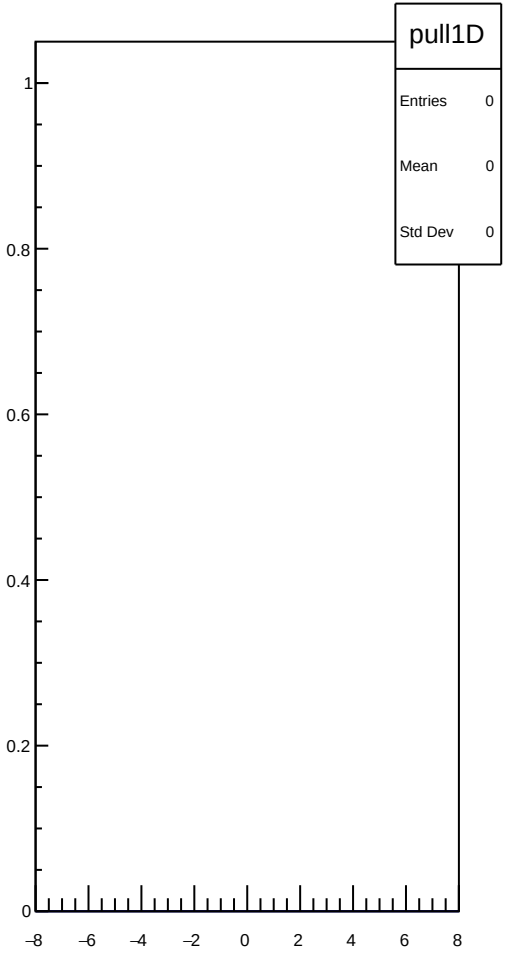

pull1D
Entries 40
Mean 0.02955
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

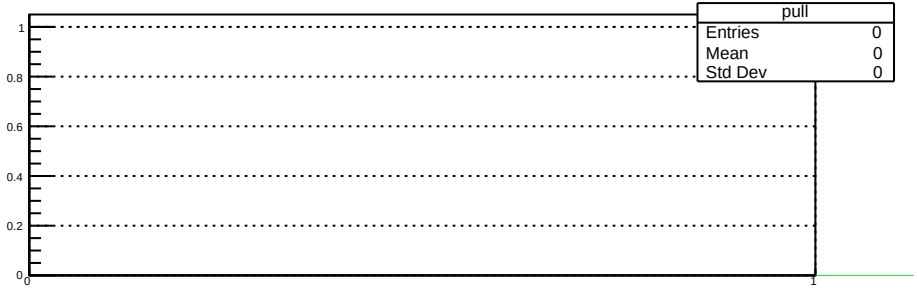

cor_usr_rms vs run
χ² / ndf 62.21 / 39
p0 1154 ± 1.28
1190
1180
1170
1160
1150
1140
1130
1120
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

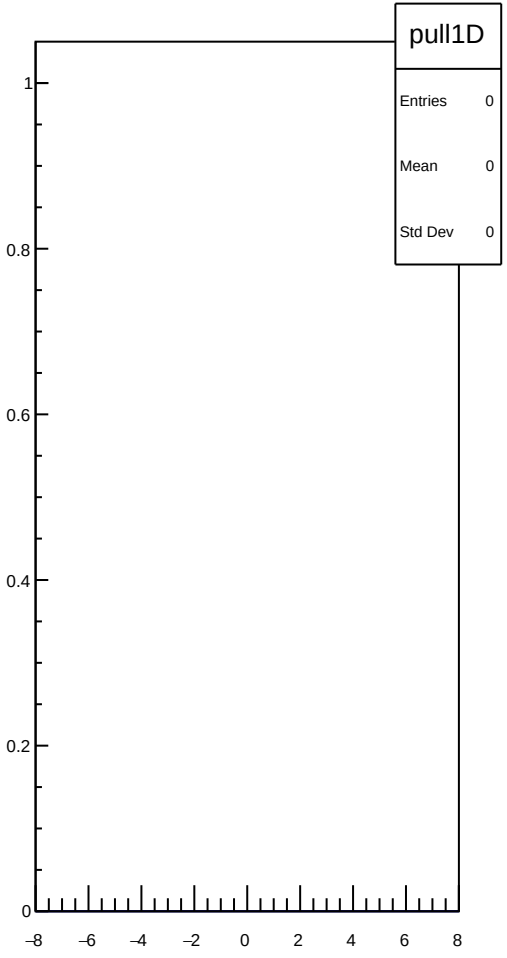

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

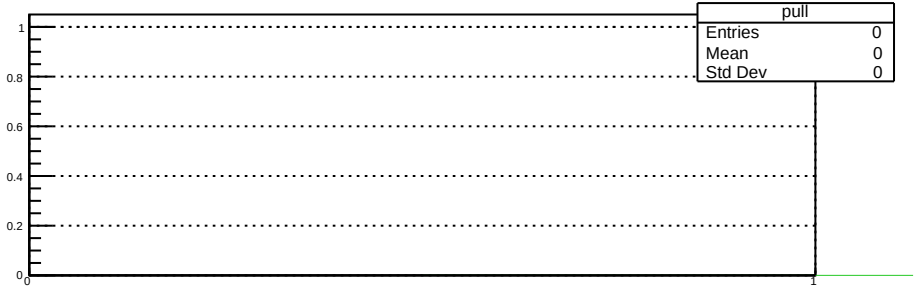

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

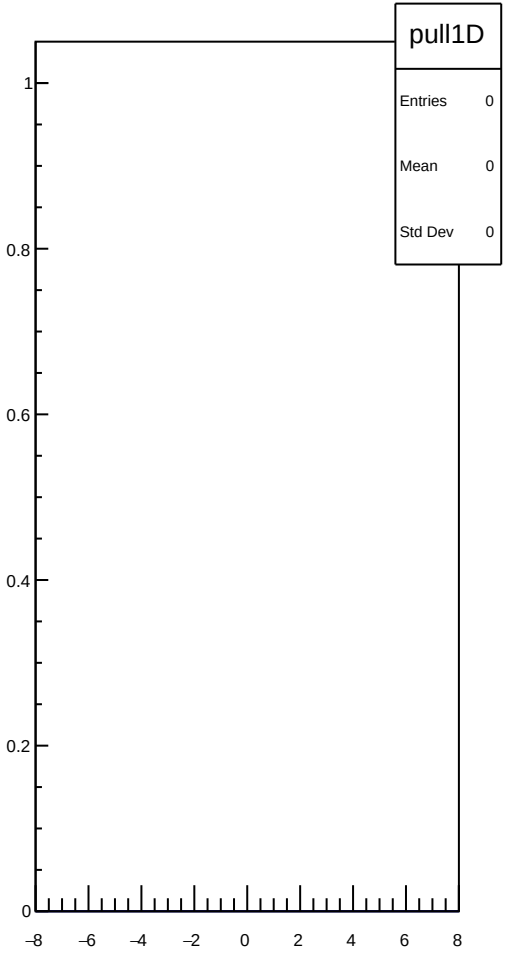

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

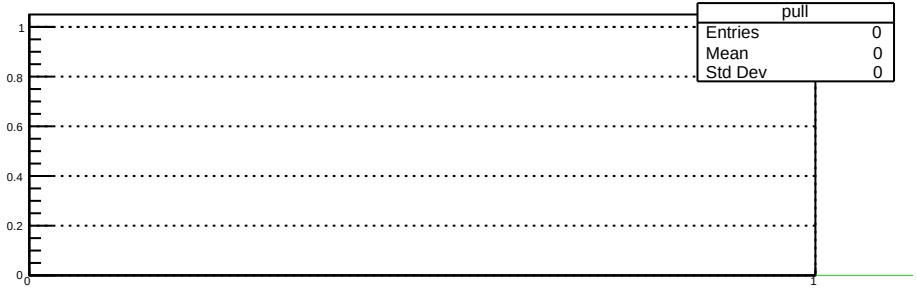

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

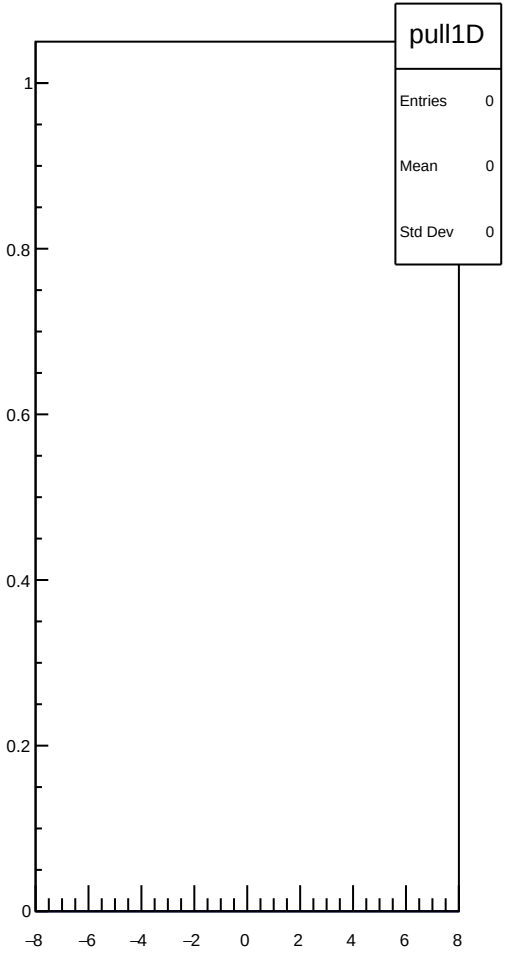

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

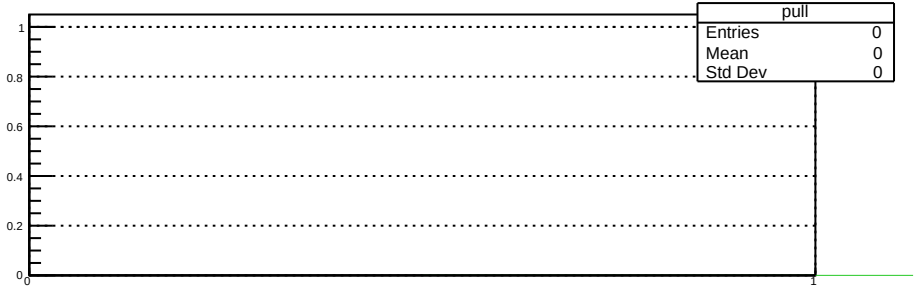

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

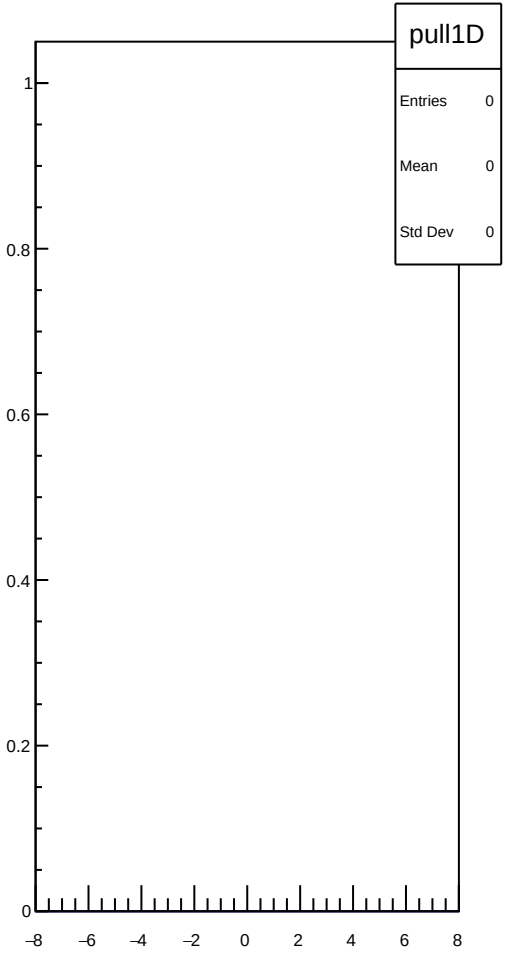

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

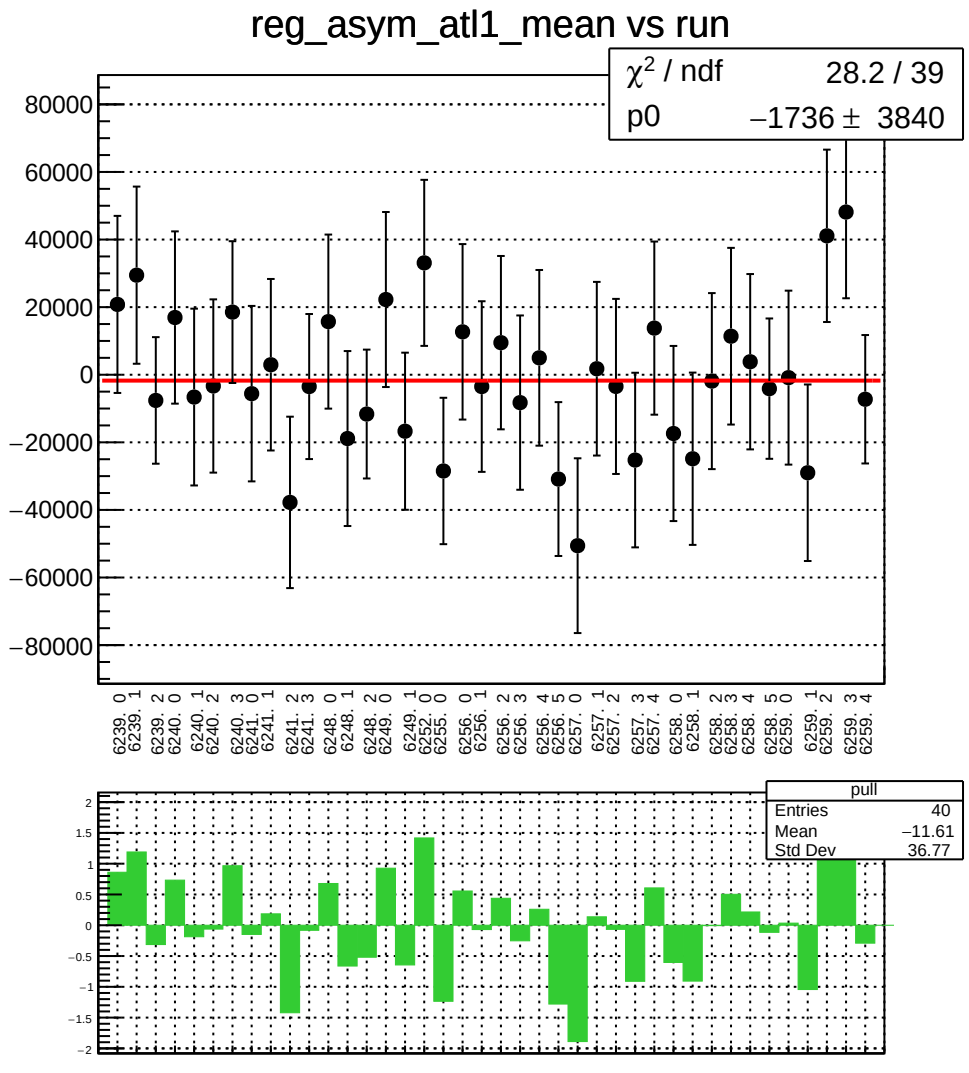

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

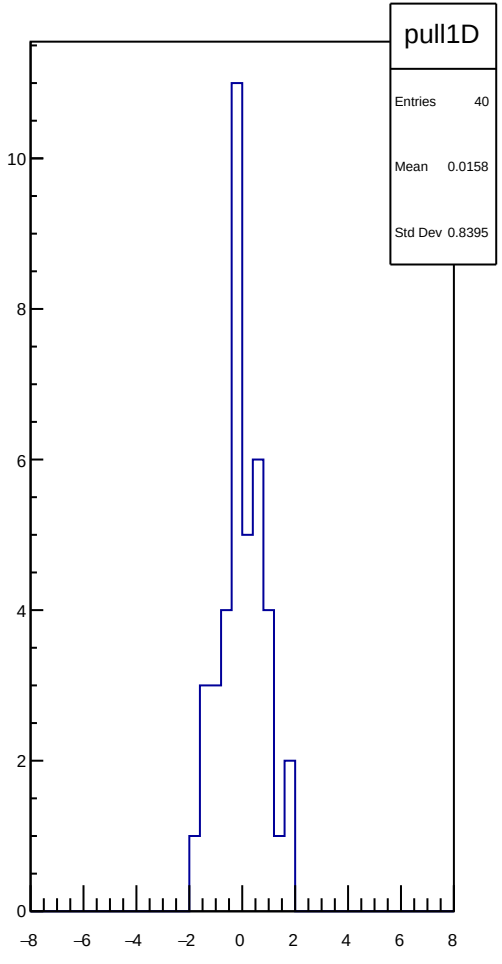

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

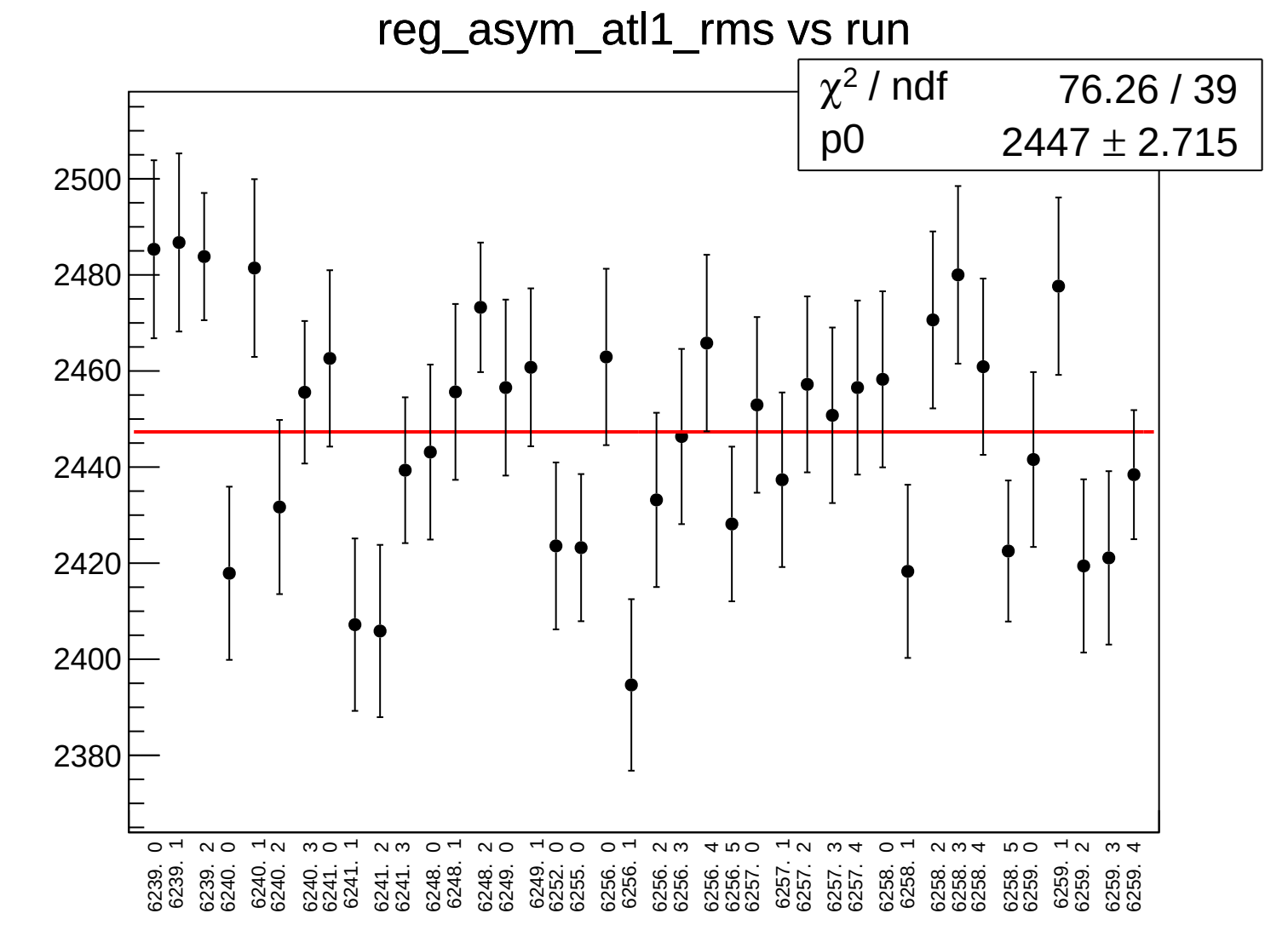

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

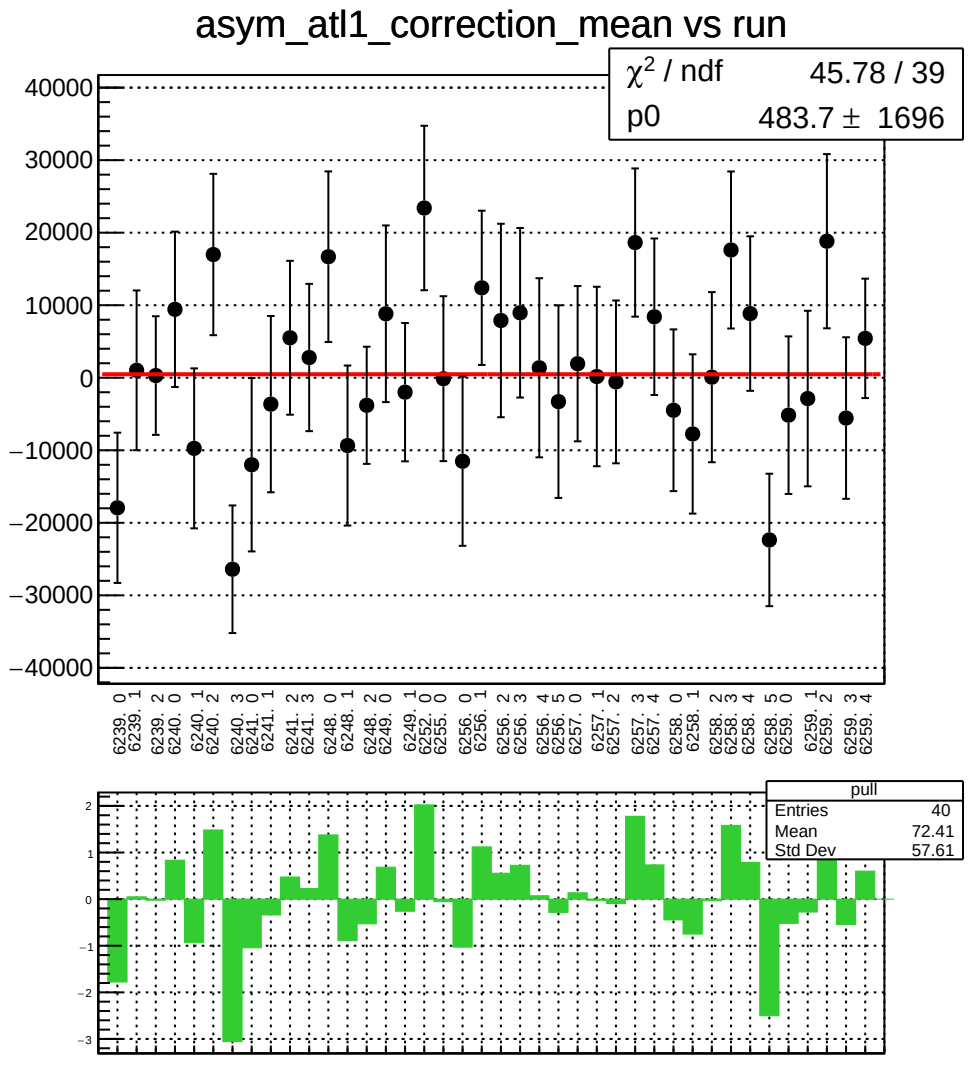

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

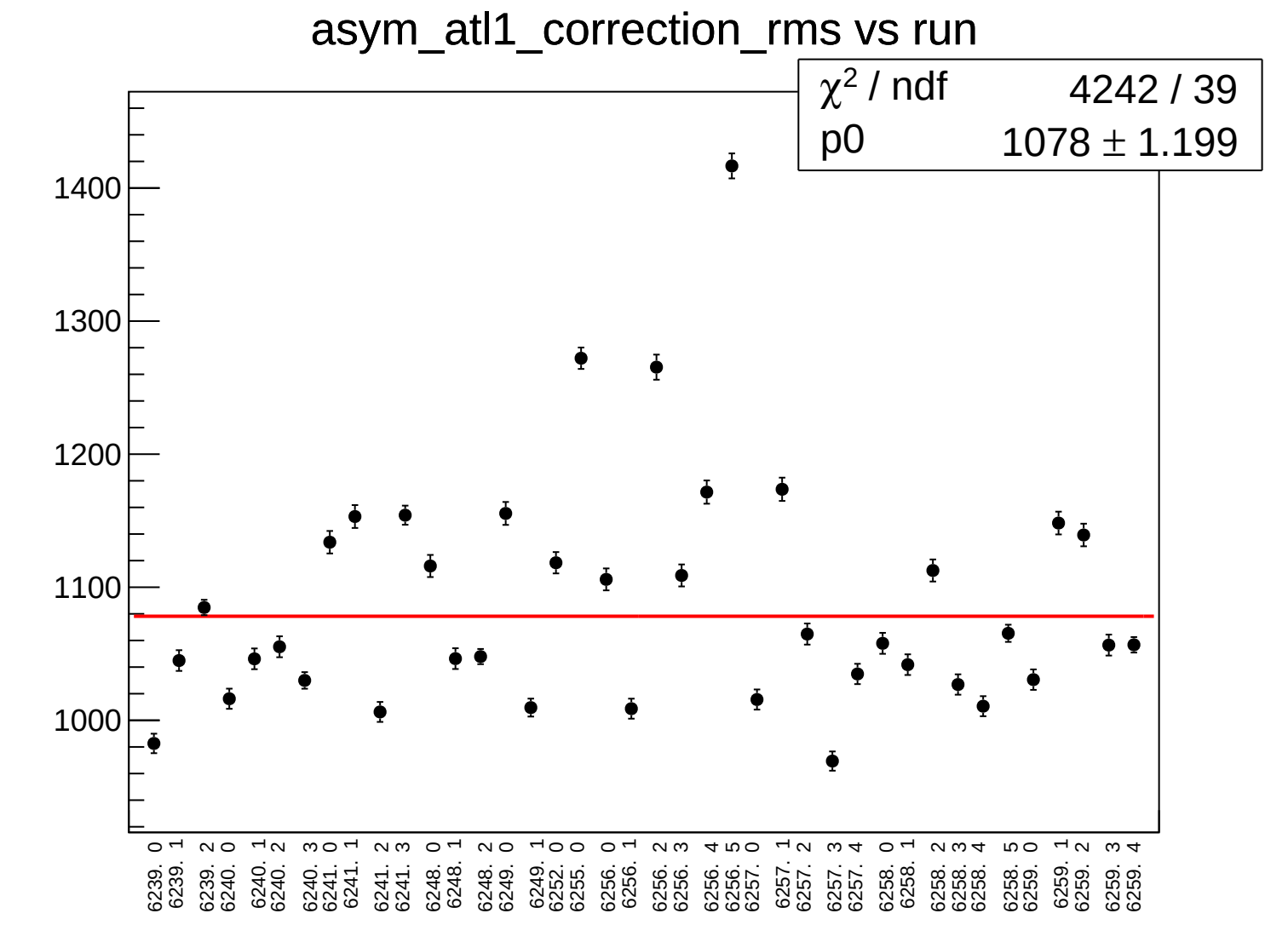

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

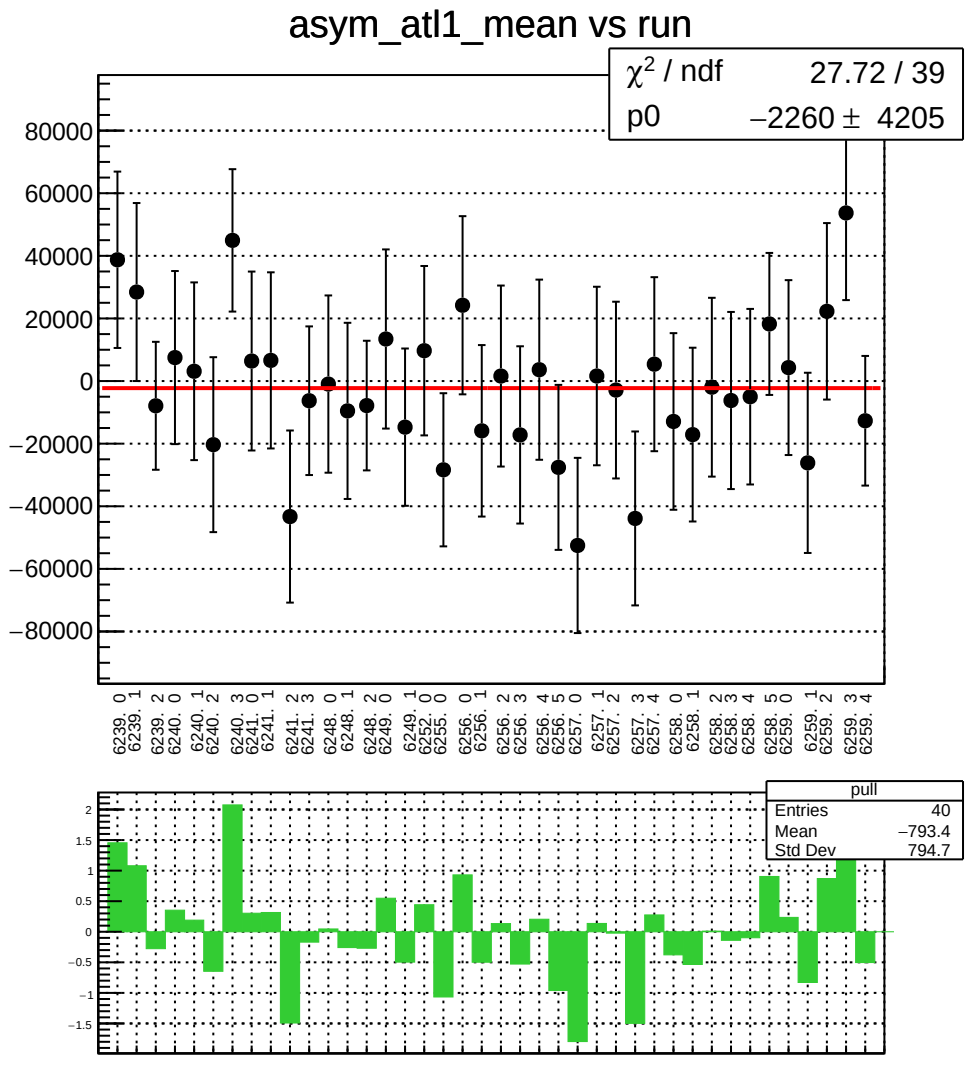

reg_asym_atl1_mean vs run
χ² / ndf 28.2 / 39
p0 −1736 ± 3840
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −11.61
Std Dev 36.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

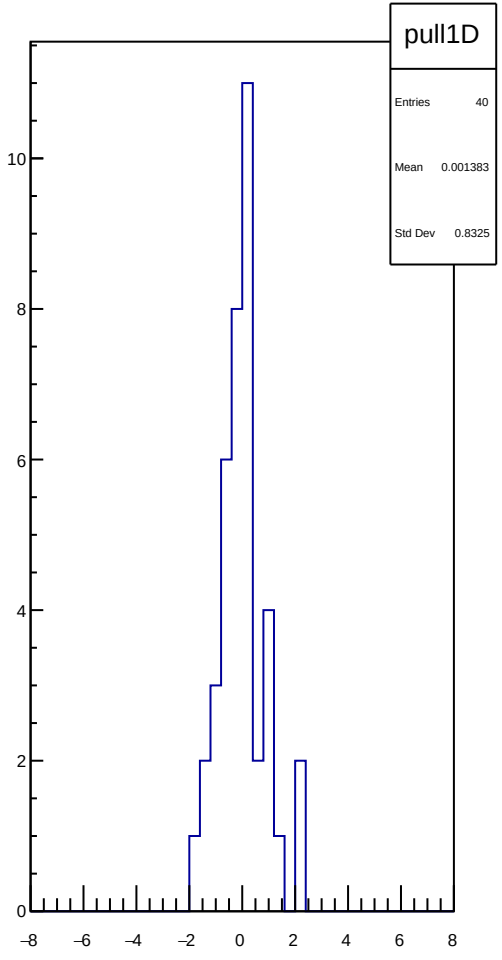

pull1D
Entries 40
Mean 0.0158
Std Dev 0.8395
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

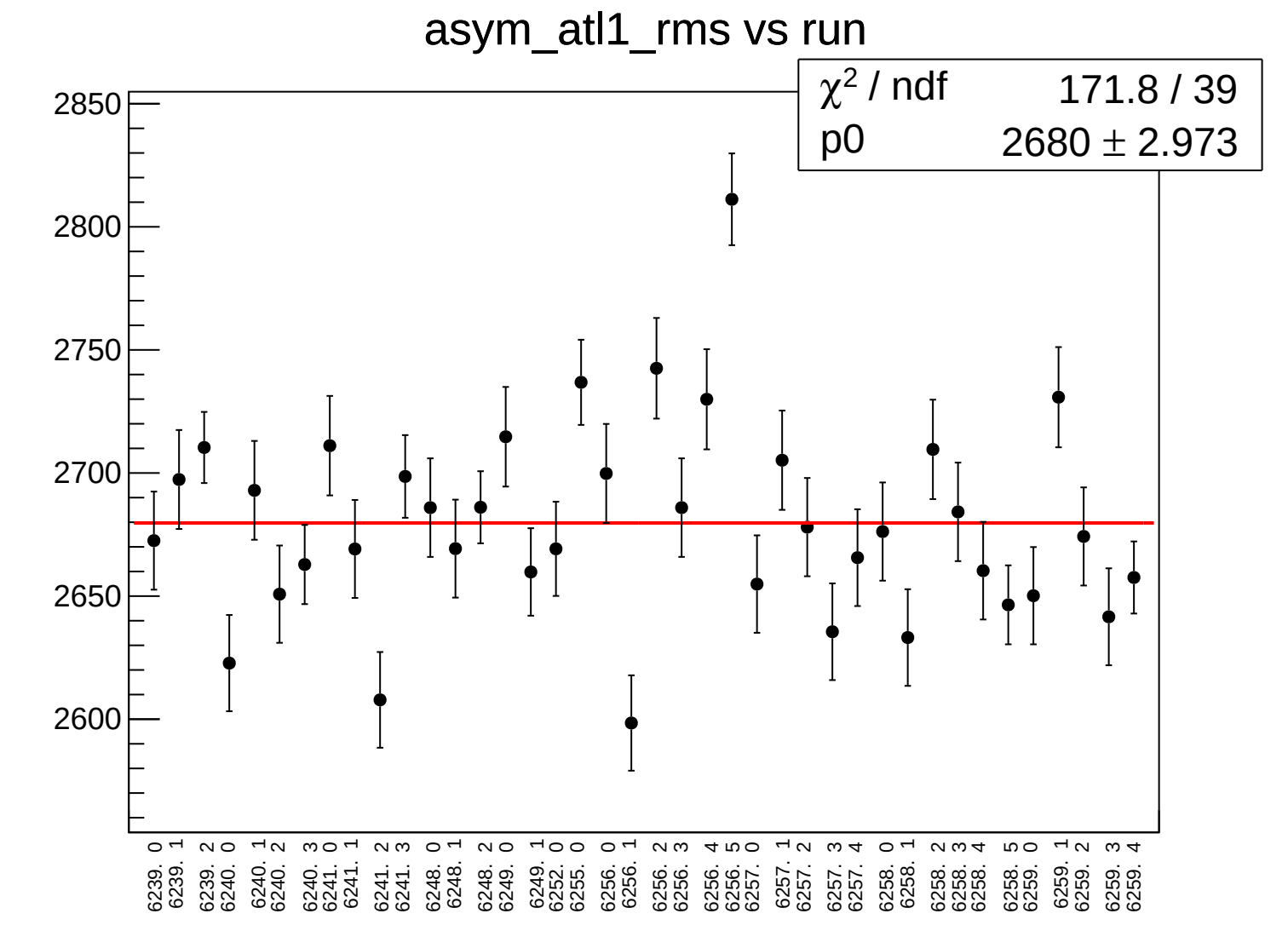

reg_asym_atl1_rms vs run
χ² / ndf 76.26 / 39
p0 2447 ± 2.715
2500
2480
2460
2440
2420
2400
2380
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

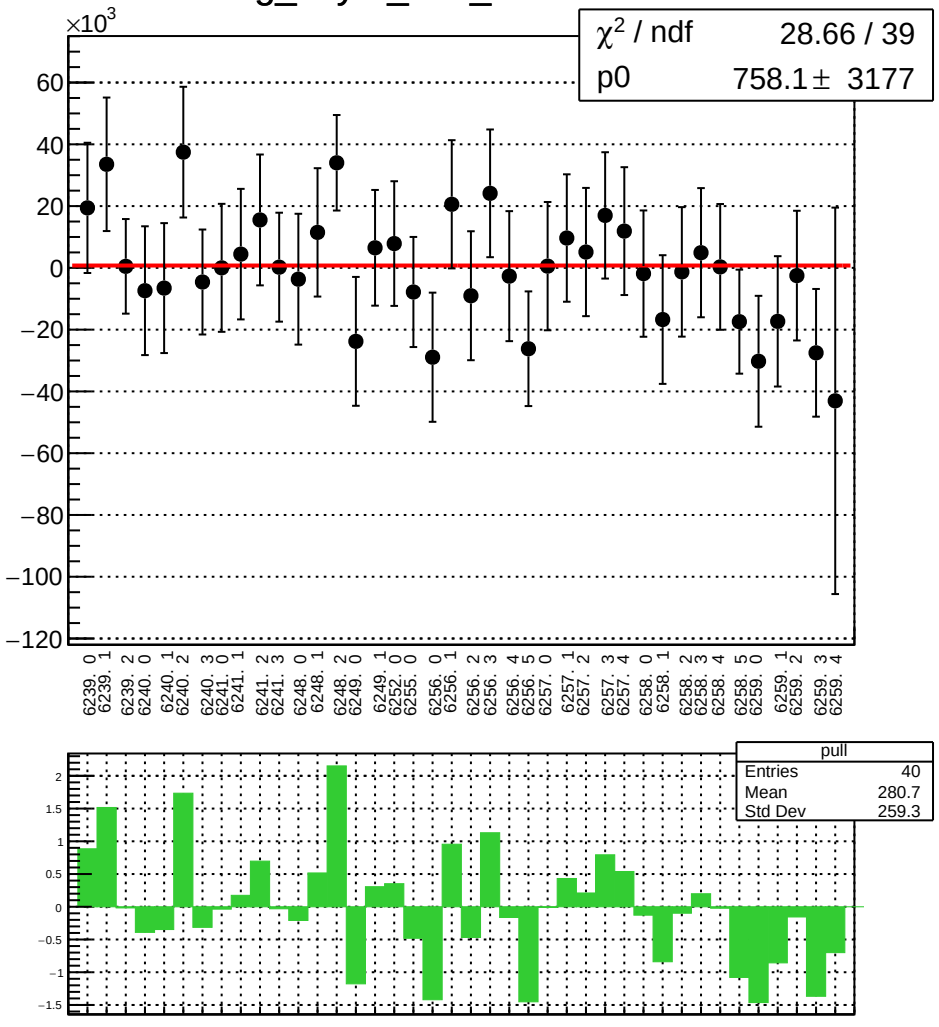

asym_atl1_correction_mean vs run
χ² / ndf 45.78 / 39
p0 483.7 ± 1696
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 72.41
Std Dev 57.61
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean 0.03412
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

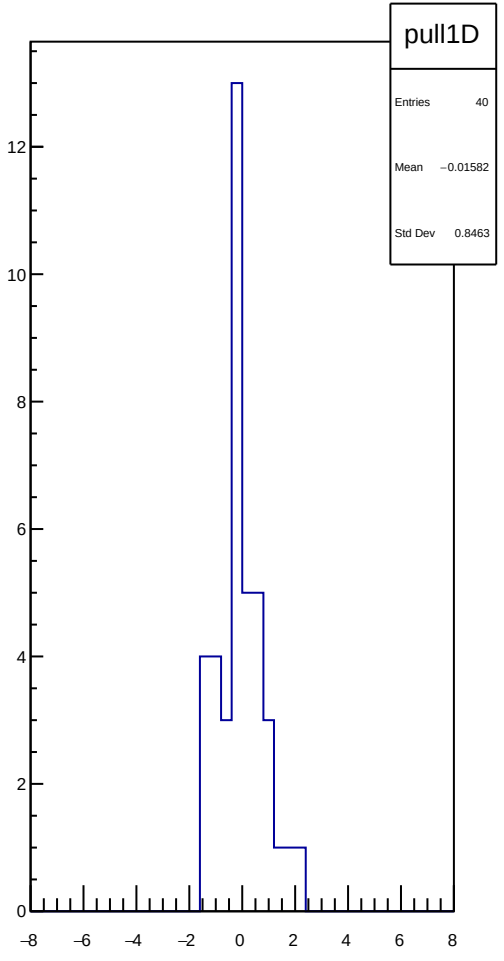

asym_atl1_correction_rms vs run
χ² / ndf 4242 / 39
p0 1078 ± 1.199
1400
1300
1200
1100
1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

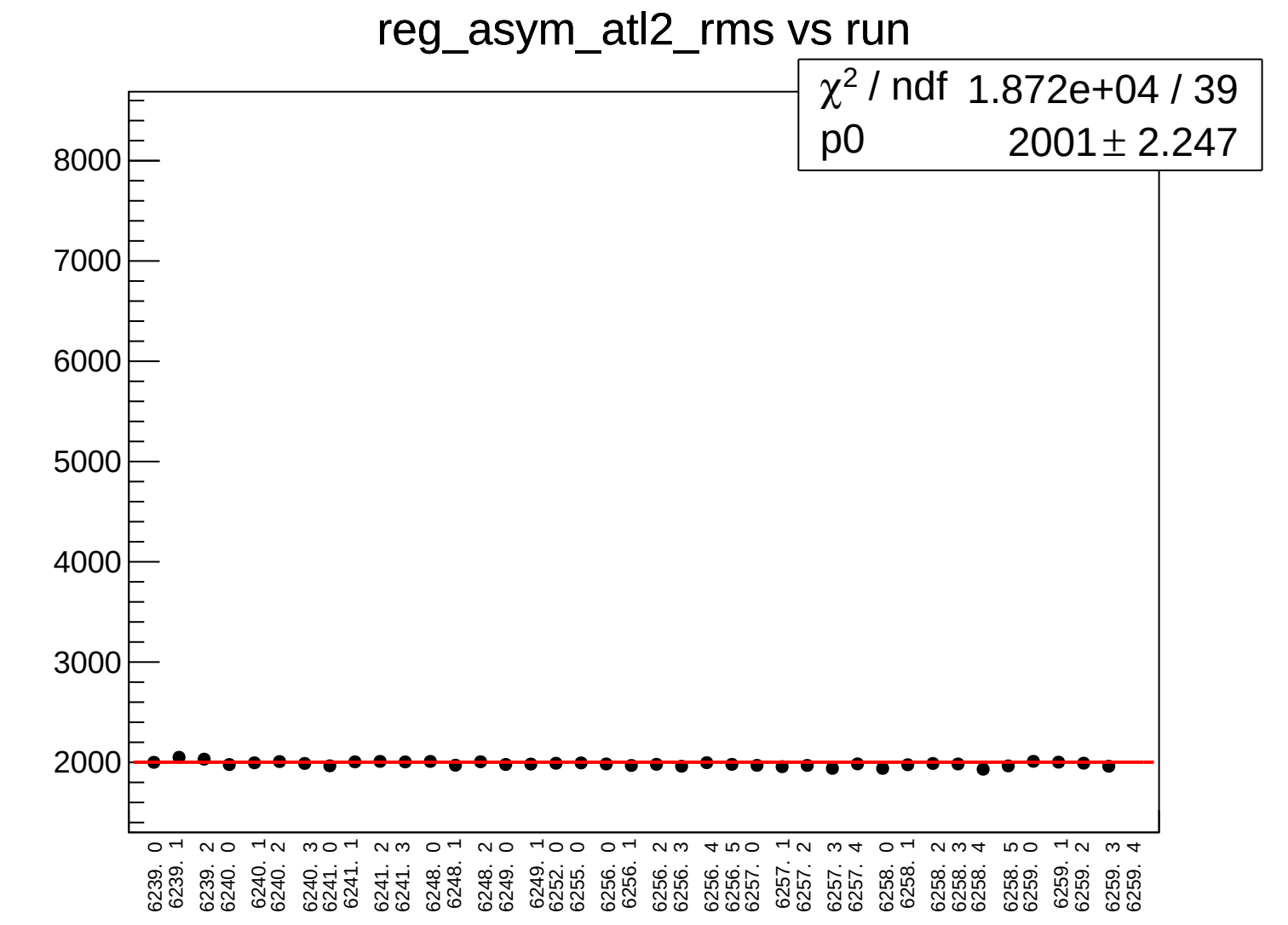

asym_atl1_mean vs run
χ² / ndf 27.72 / 39
p0 −2260 ± 4205
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −793.4
Std Dev 794.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

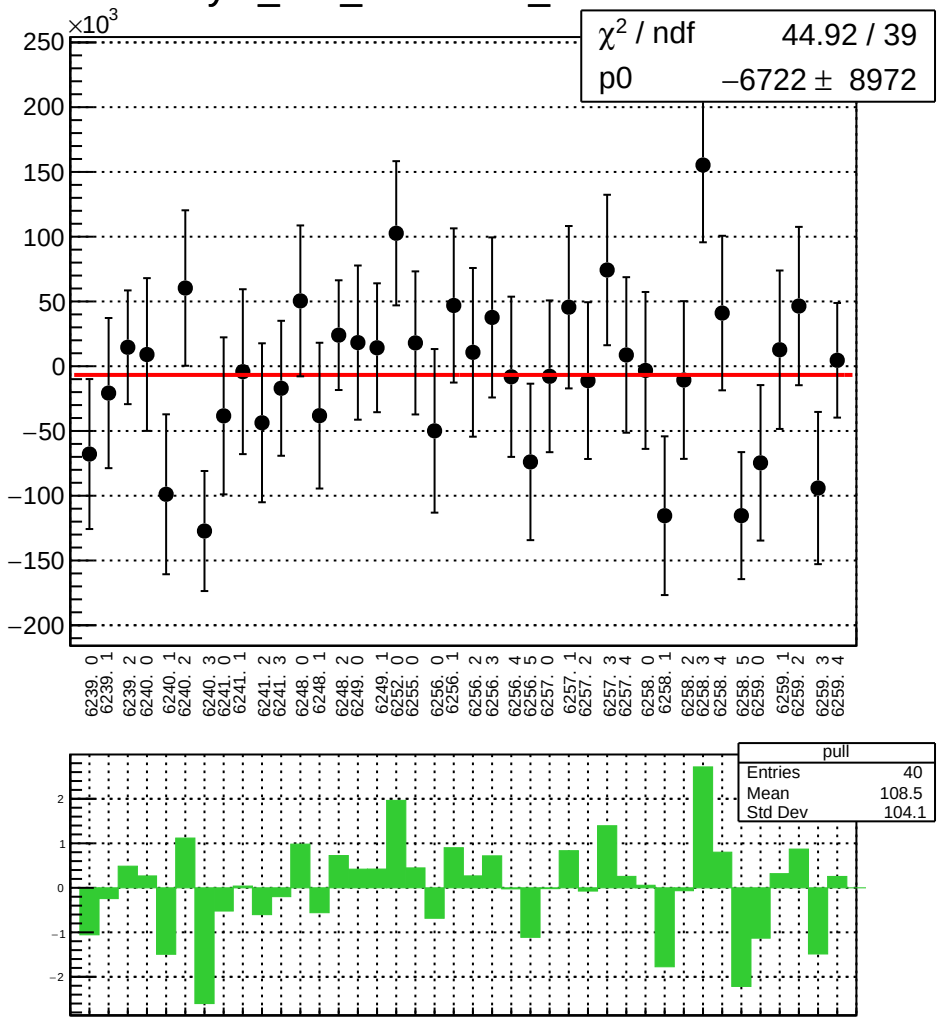

pull1D
Entries 40
Mean 0.001383
Std Dev 0.8325
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

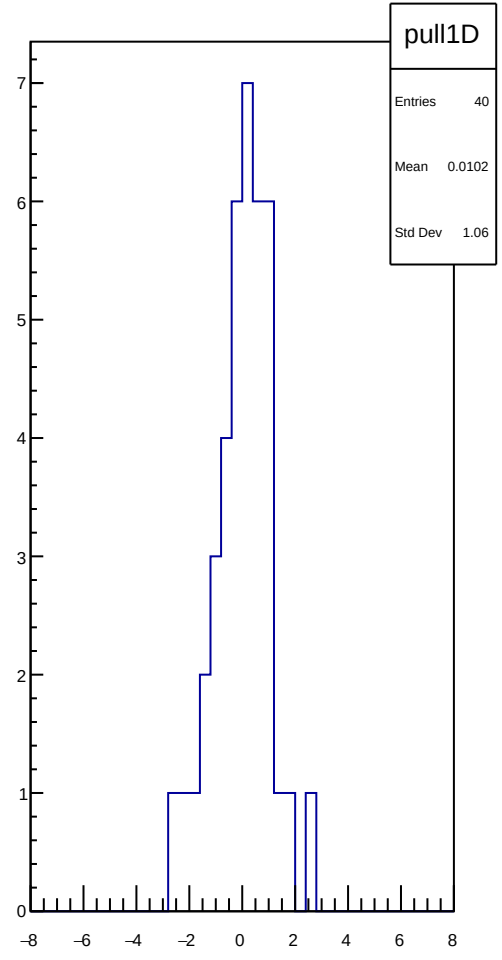

asym_atl1_rms vs run
χ² / ndf 171.8 / 39
p0 2680 ± 2.973
2850
2800
2750
2700
2650
2600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

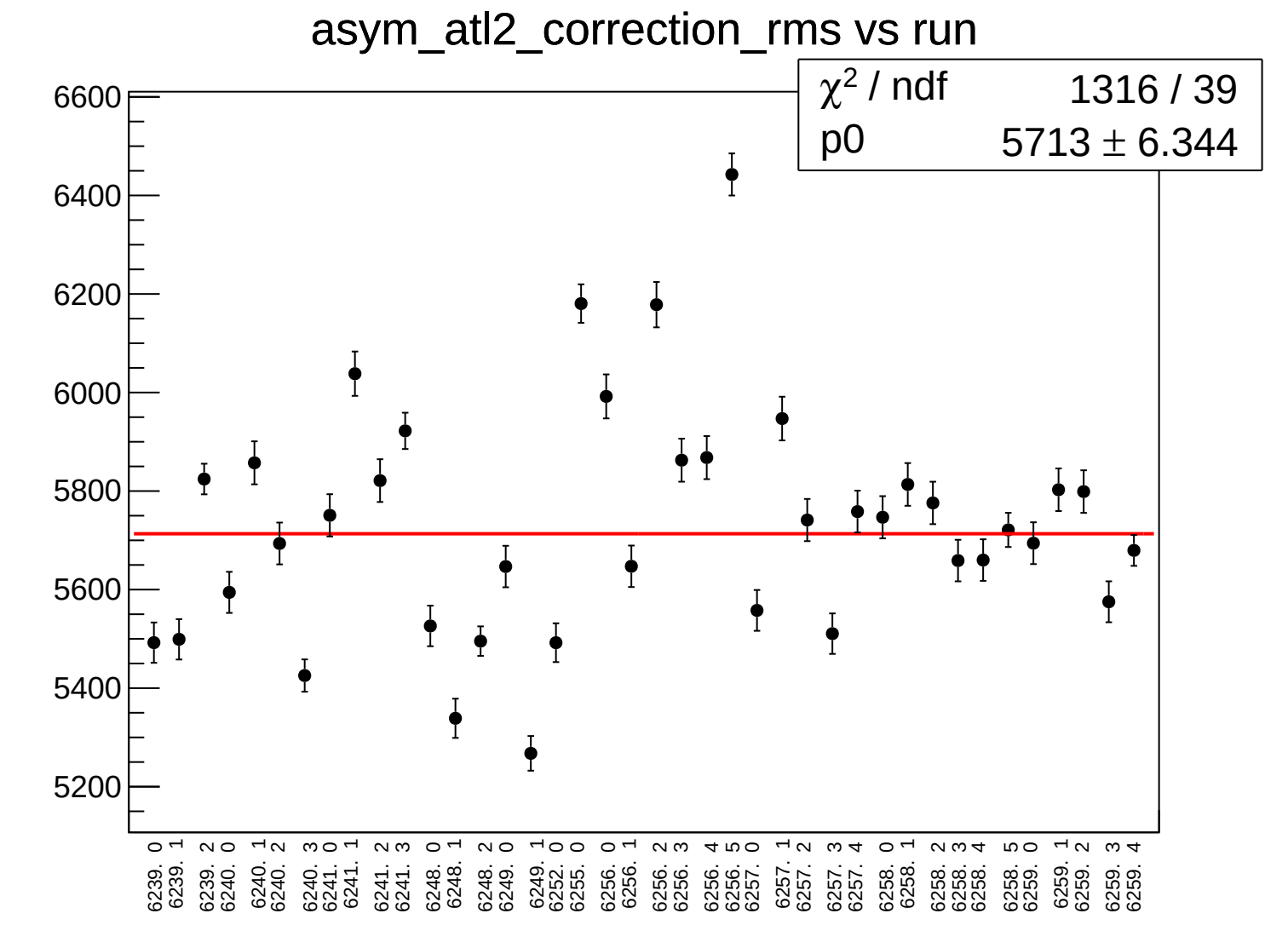

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 28.66 / 39
p0 758.1 ± 3177
pull
Entries 40
Mean 280.7
Std Dev 259.3

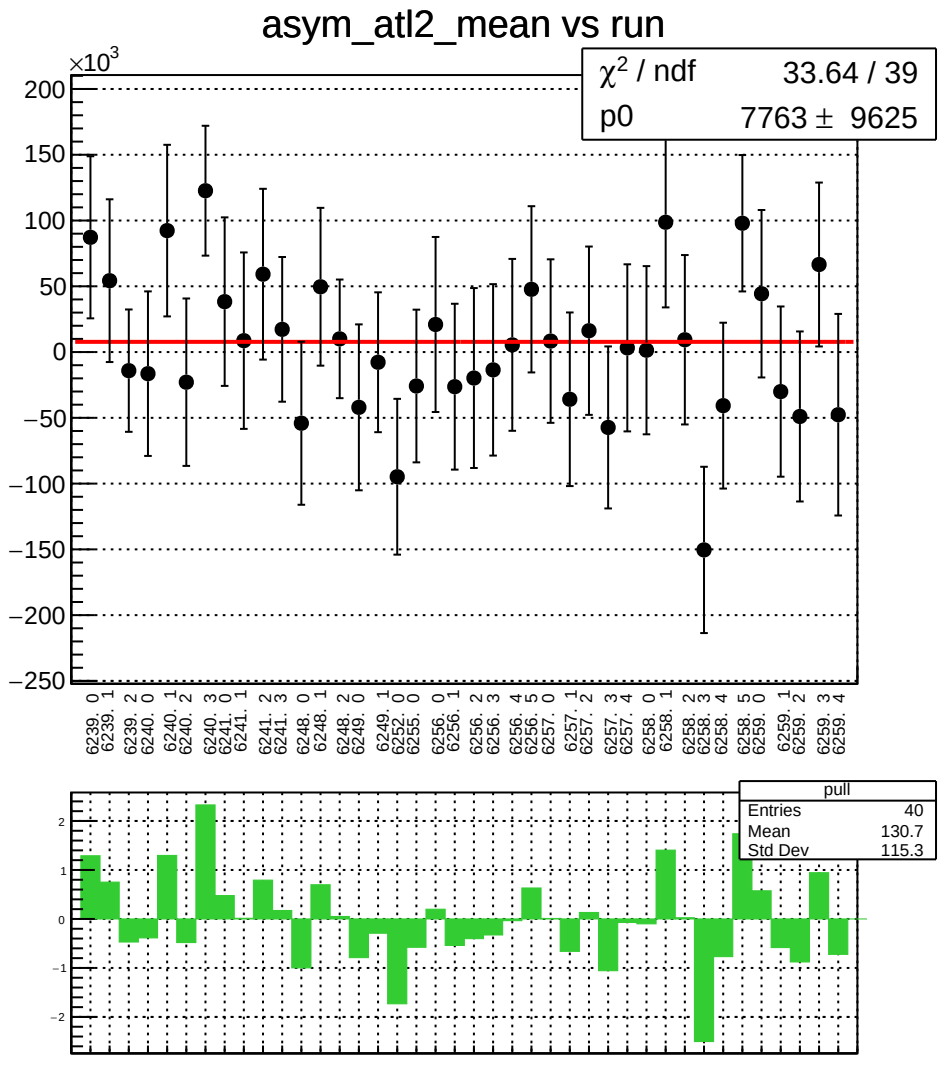

pull1D
Entries 40
Mean −0.01582
Std Dev 0.8463

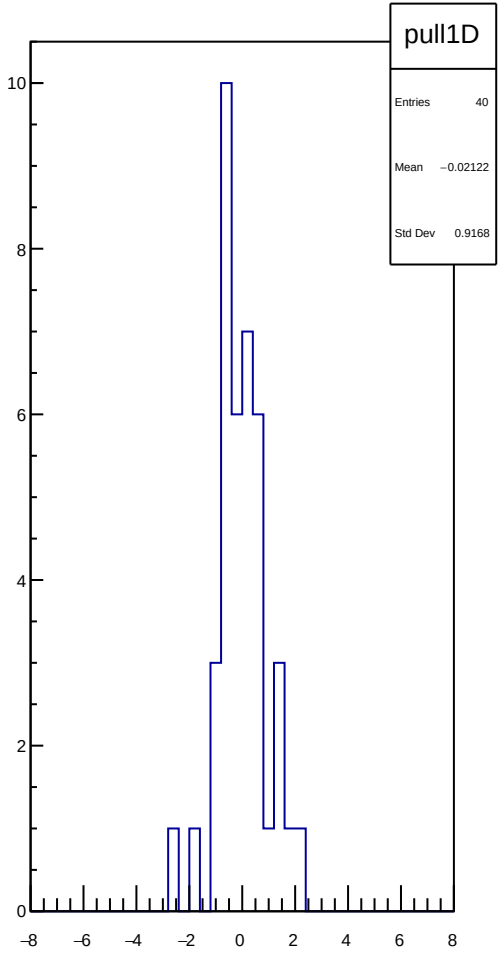

reg_asym_atl2_rms vs run
χ² / ndf 1.872e+04 / 39
p0 2001 ± 2.247
8000
7000
6000
5000
4000
3000
2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

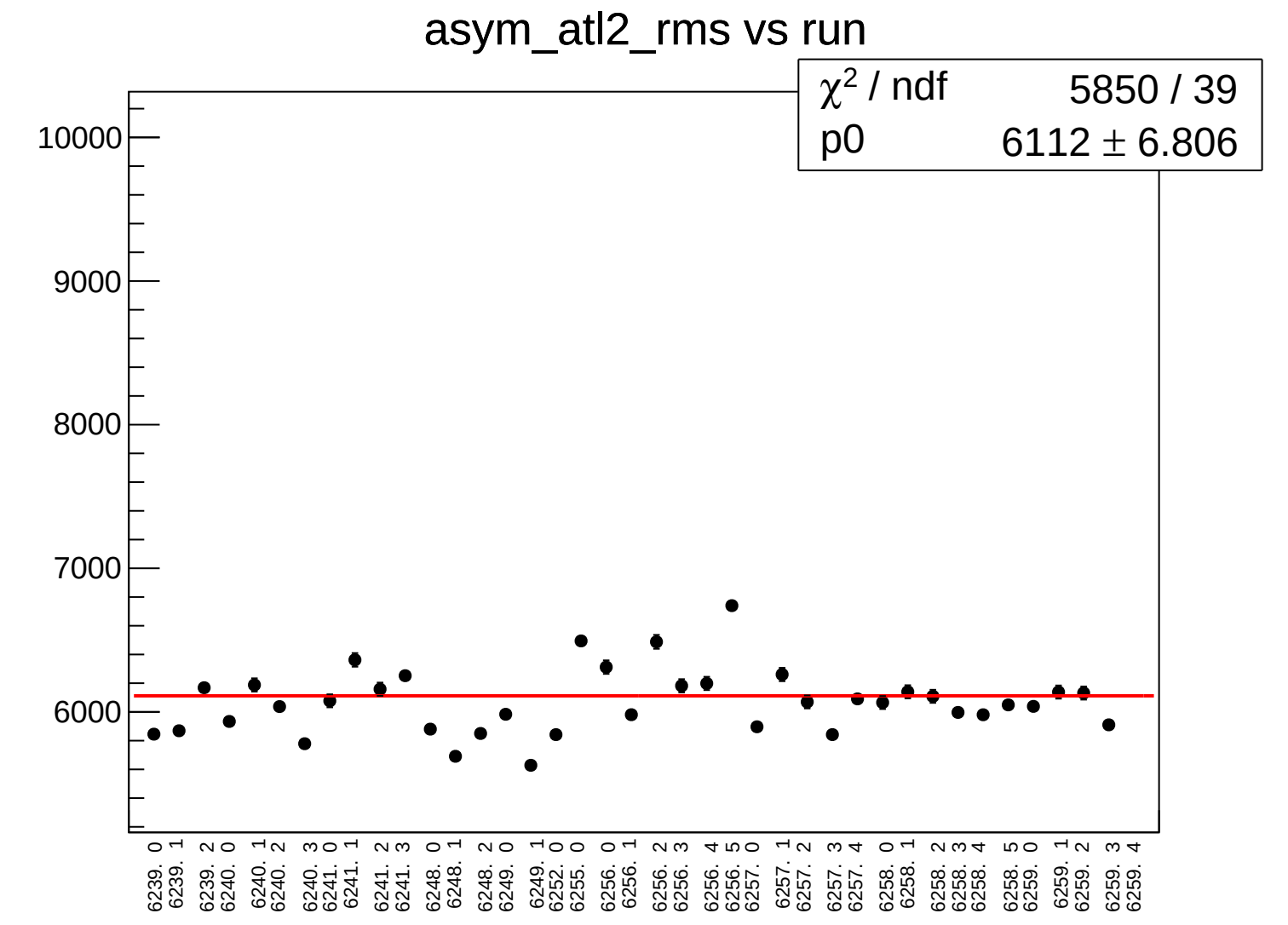

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 44.92 / 39
p0 −6722 ± 8972
250
200
150
100
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 108.5
Std Dev 104.1
2
1
0
−1
−2

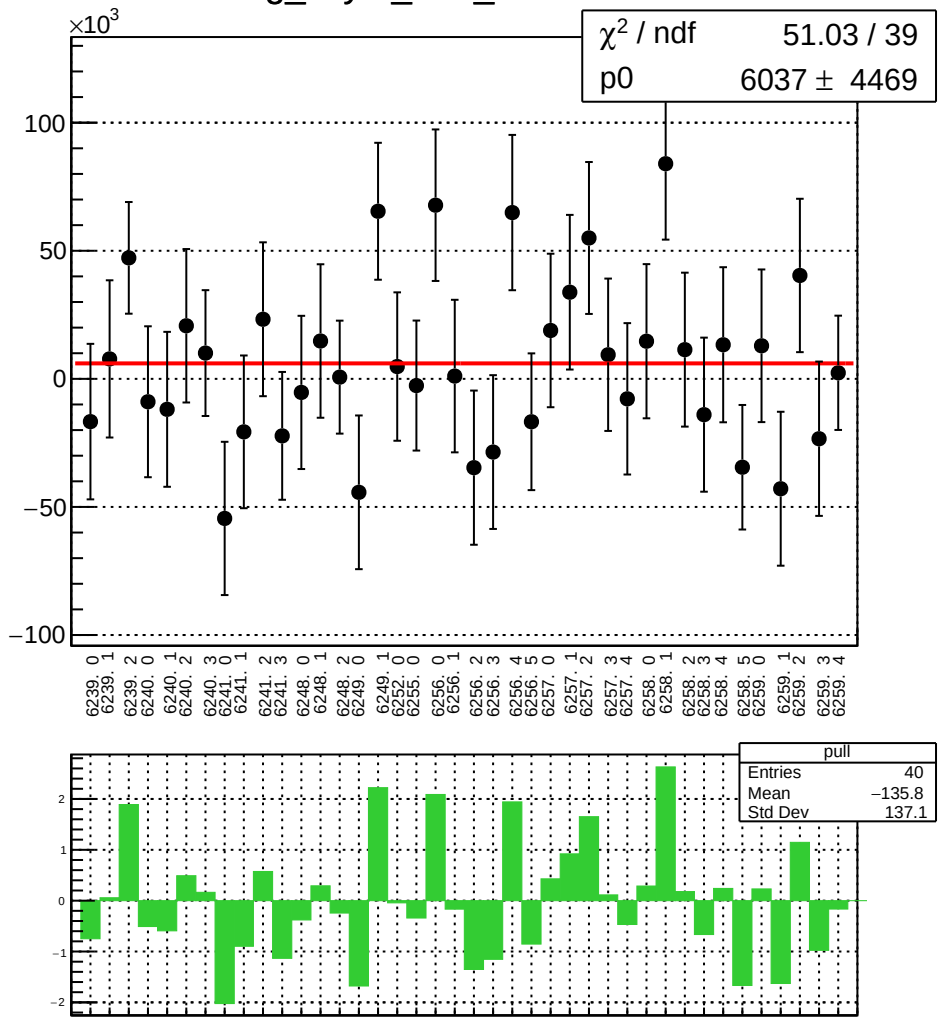

pull1D
Entries 40
Mean 0.0102
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

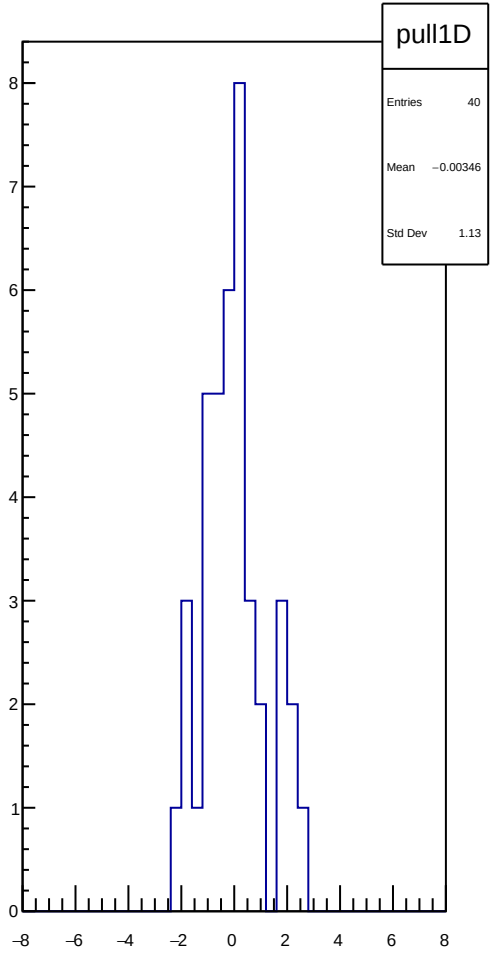

asym_atl2_correction_rms vs run
χ² / ndf 1316 / 39
p0 5713 ± 6.344
6600
6400
6200
6000
5800
5600
5400
5200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

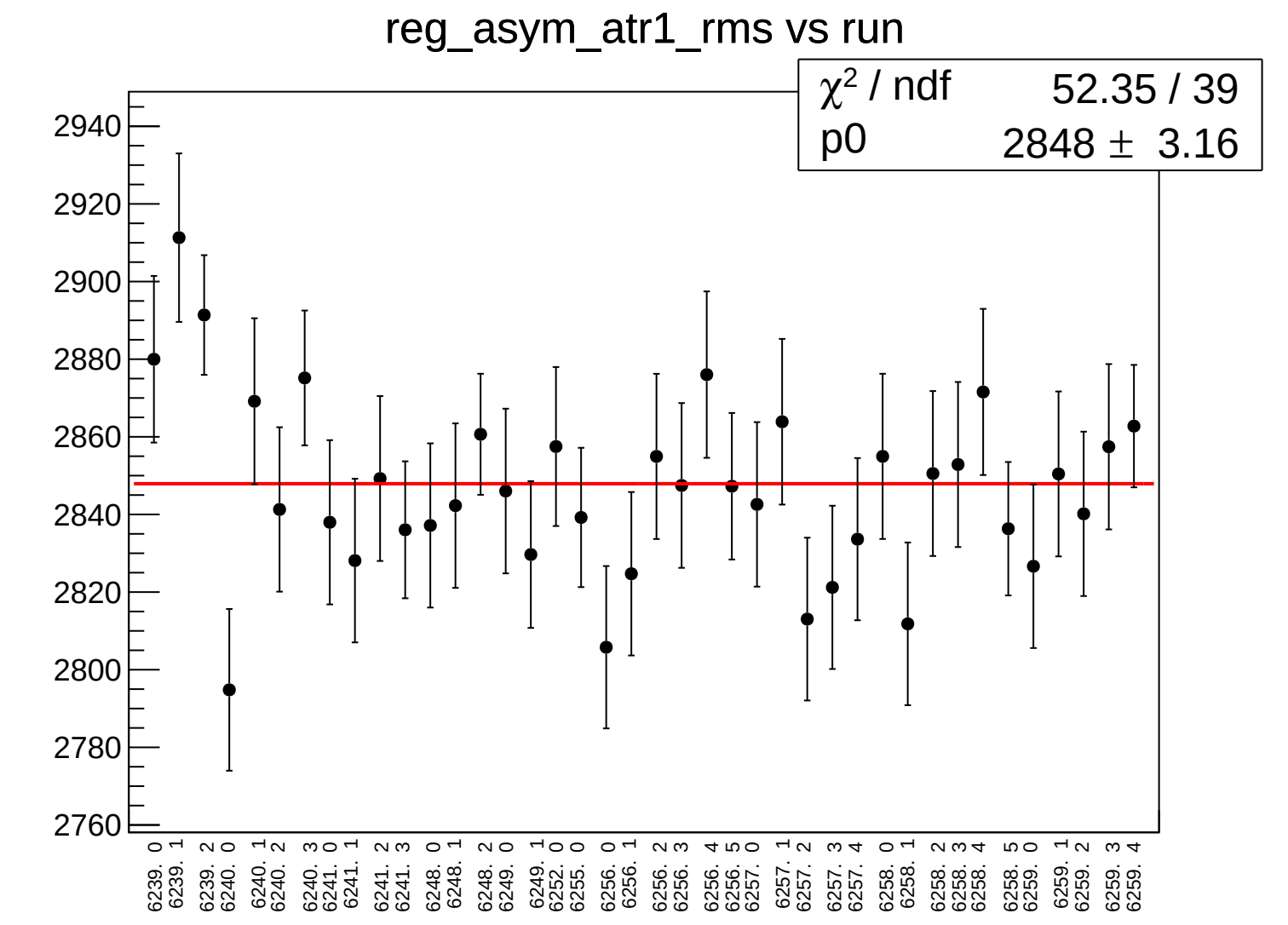

asym_atl2_mean vs run
×10^3
χ^2 / ndf 33.64 / 39
p0 7763 ± 9625
200
150
100
50
0
−50
−100
−150
−200
−250
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 130.7
Std Dev 115.3
2
1
0
−1
−2

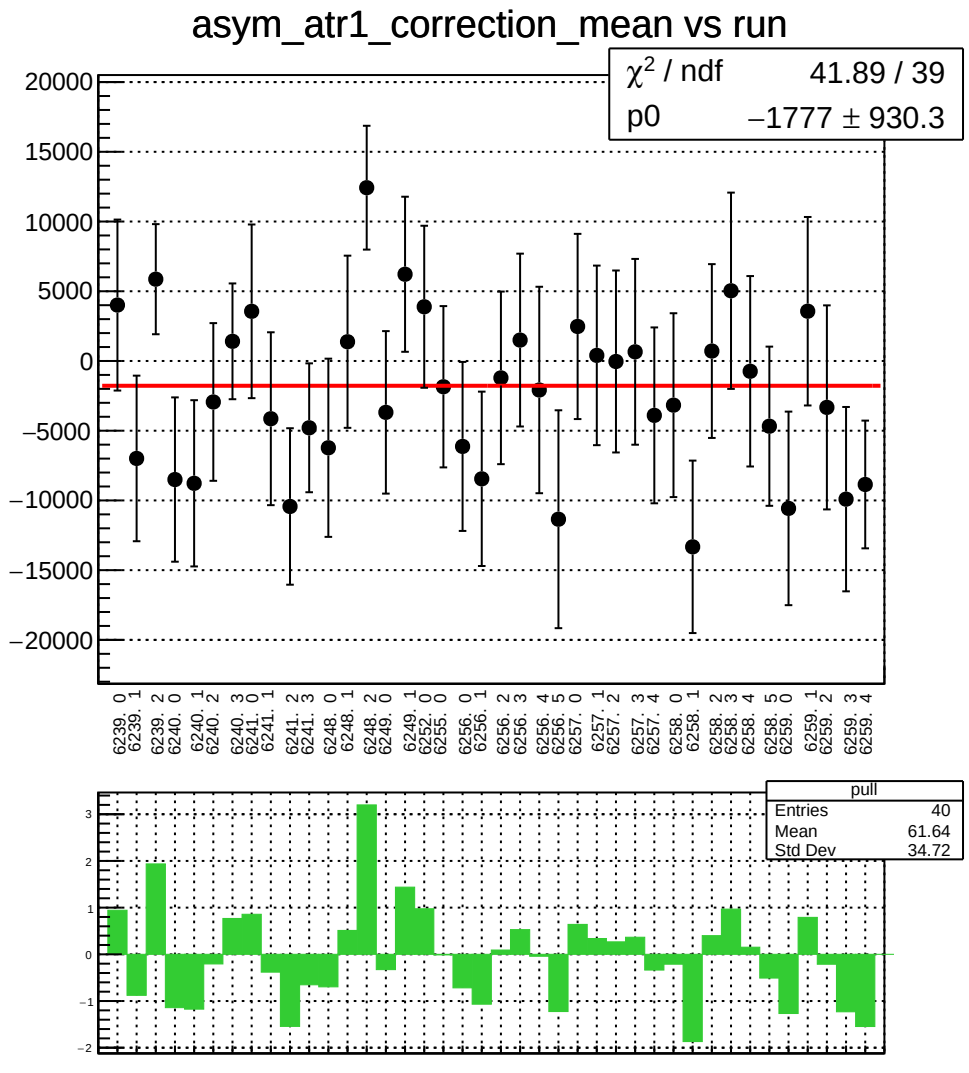

pull1D
Entries 40
Mean −0.02122
Std Dev 0.9168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

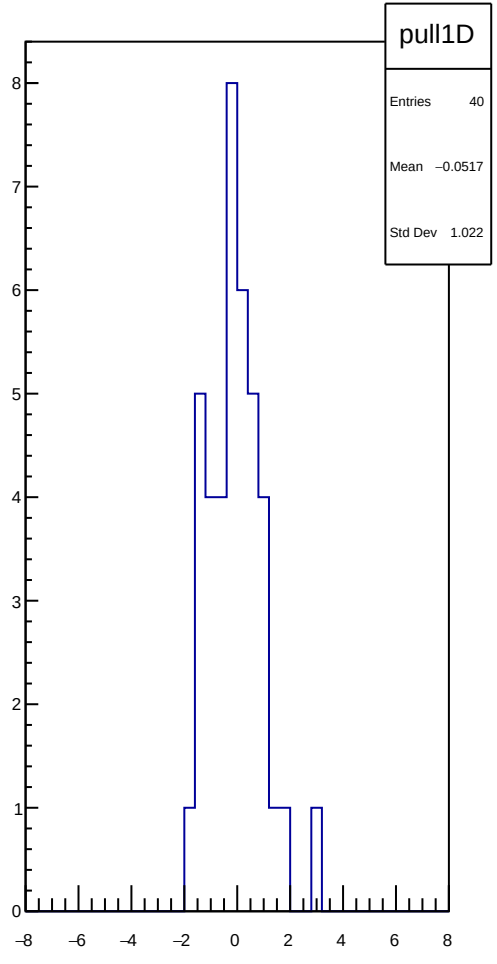

asym_atl2_rms vs run
χ² / ndf 5850 / 39
p0 6112 ± 6.806
10000
9000
8000
7000
6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

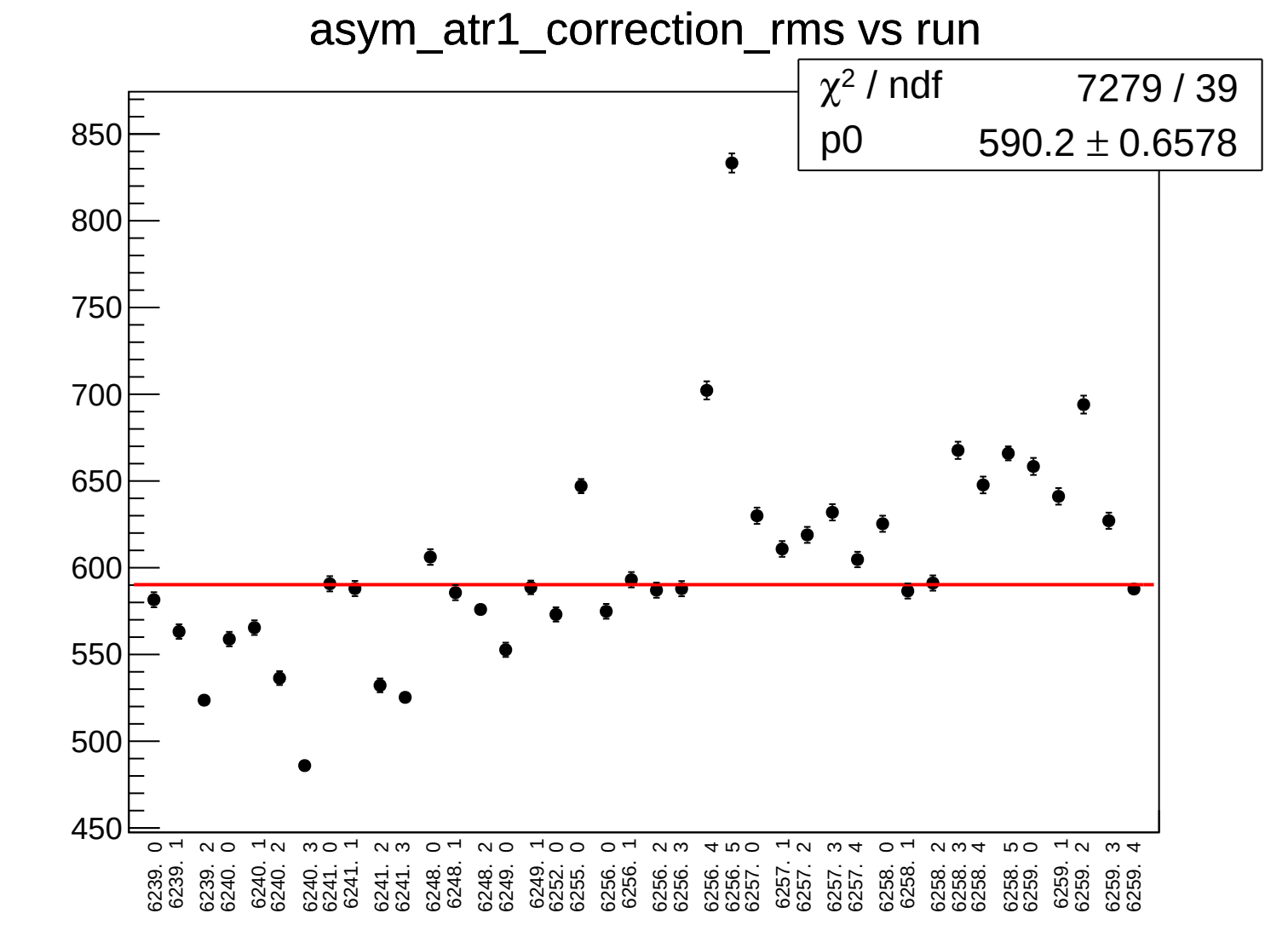

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 51.03 / 39
p0 6037 ± 4469
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −135.8
Std Dev 137.1
2
1
0
−1
−2

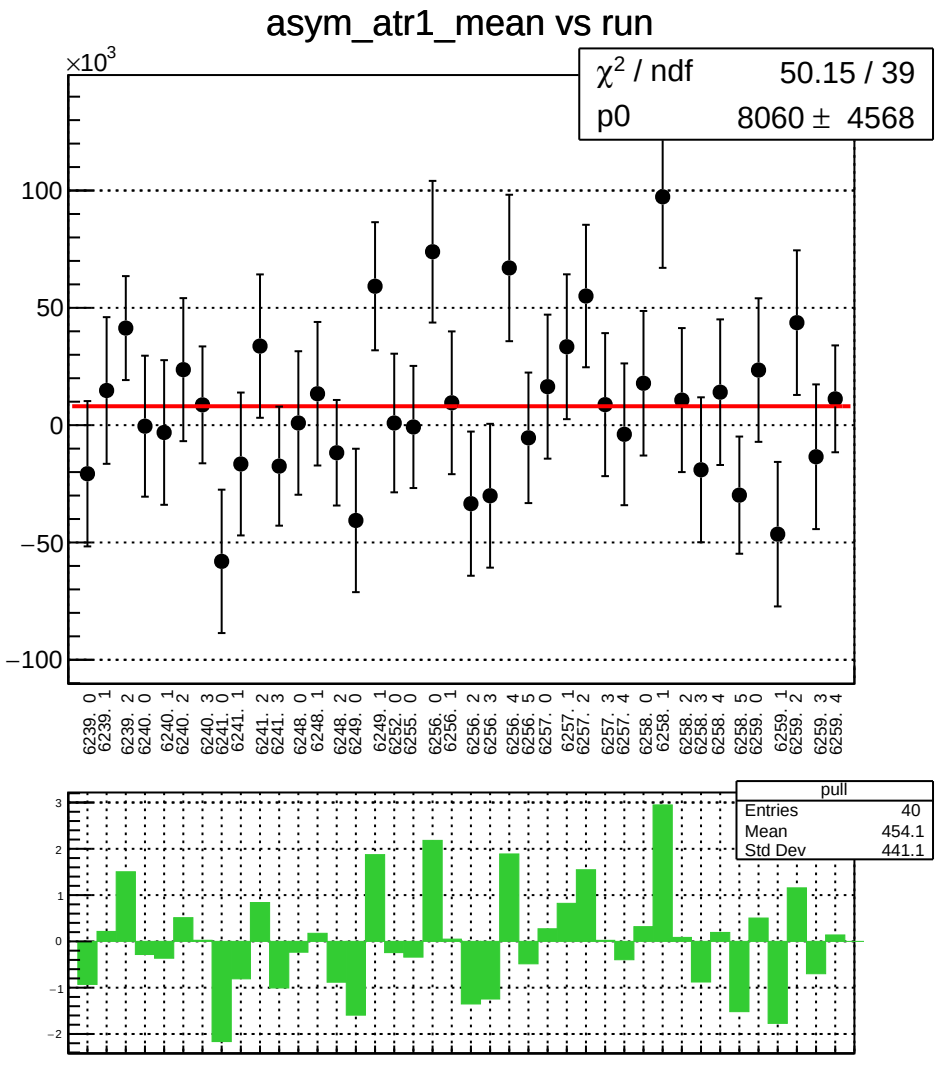

pull1D
Entries 40
Mean −0.00346
Std Dev 1.13
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

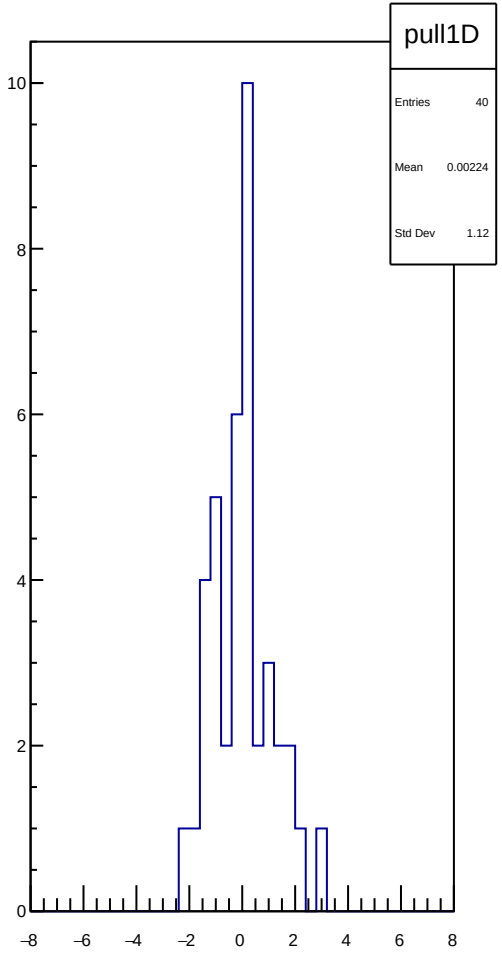

reg_asym_atr1_rms vs run
χ² / ndf 52.35 / 39
p0 2848 ± 3.16
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

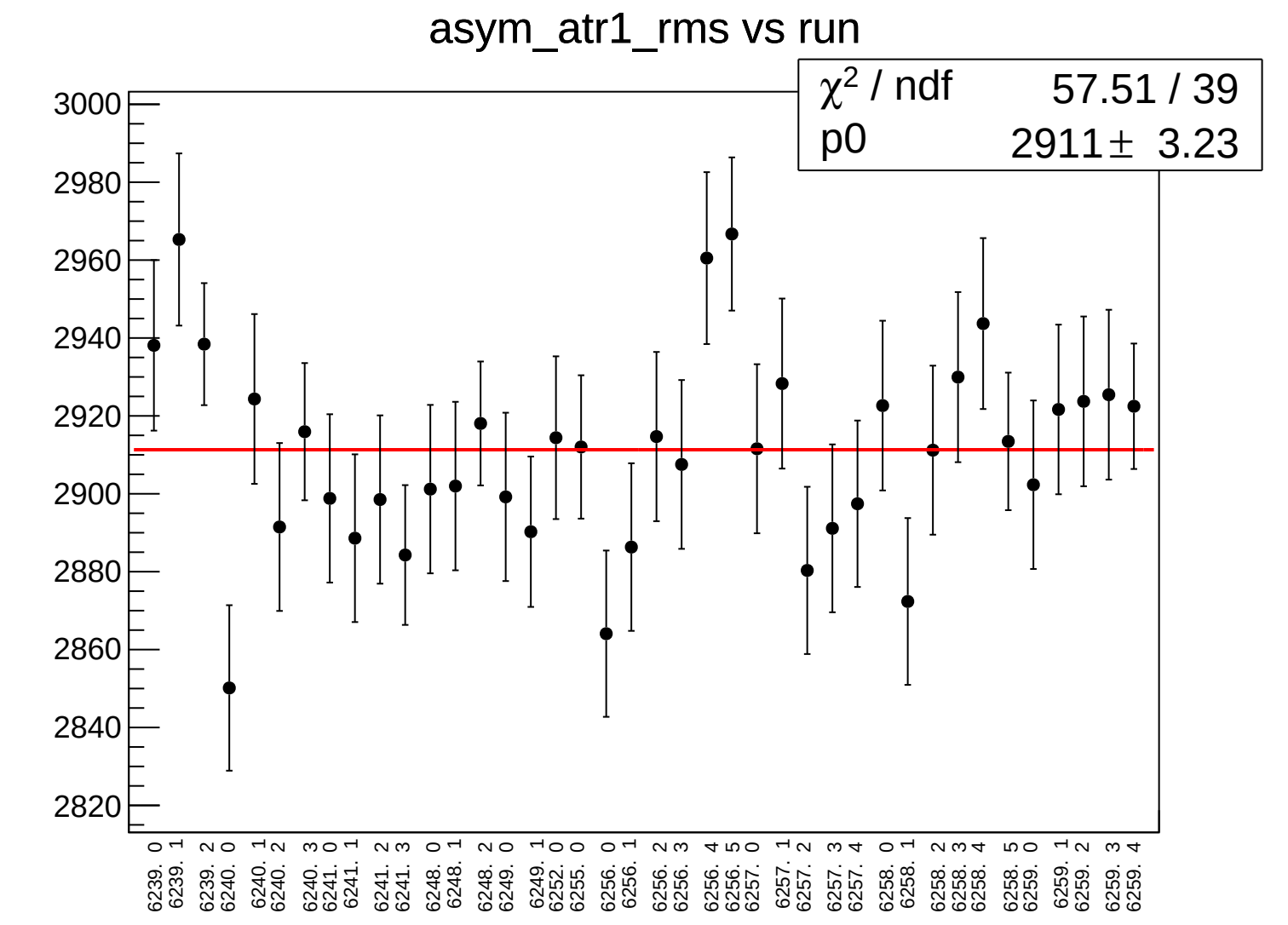

asym_atr1_correction_mean vs run
χ² / ndf 41.89 / 39
p0 −1777 ± 930.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 61.64
Std Dev 34.72
3
2
1
0
−1
−2

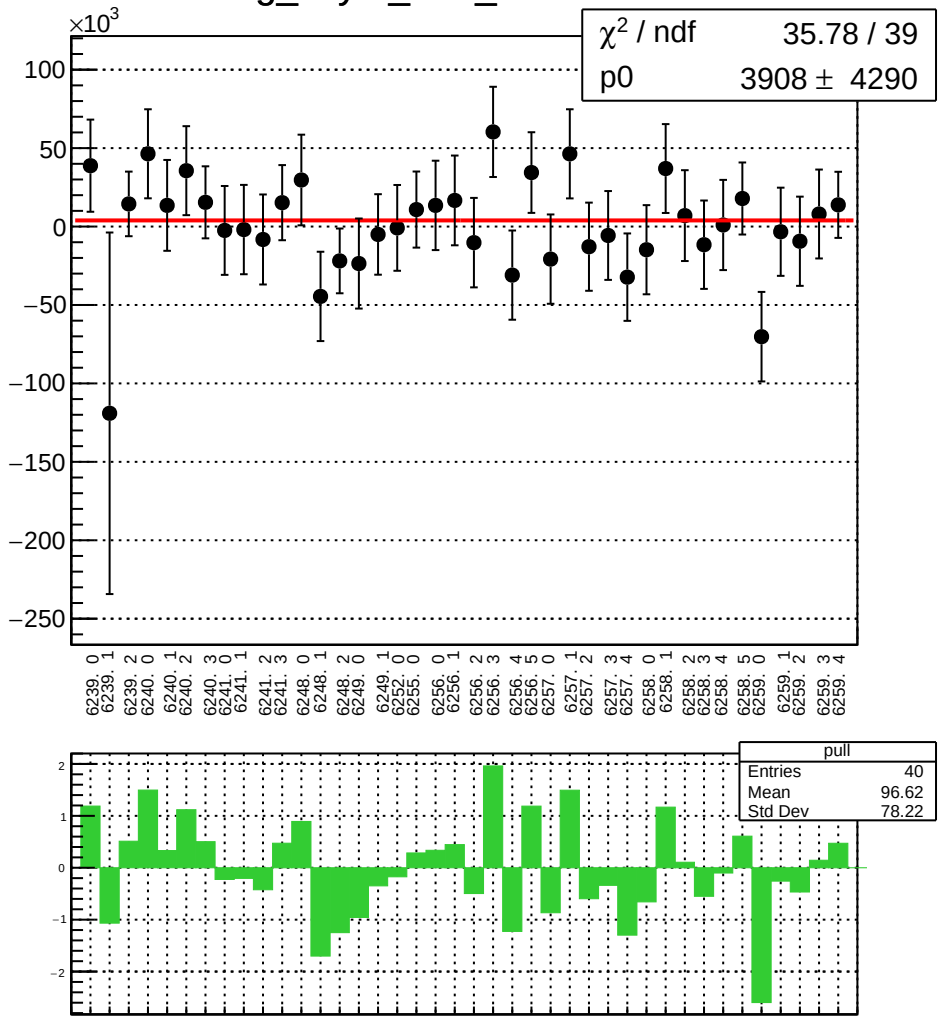

pull1D
Entries 40
Mean −0.0517
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

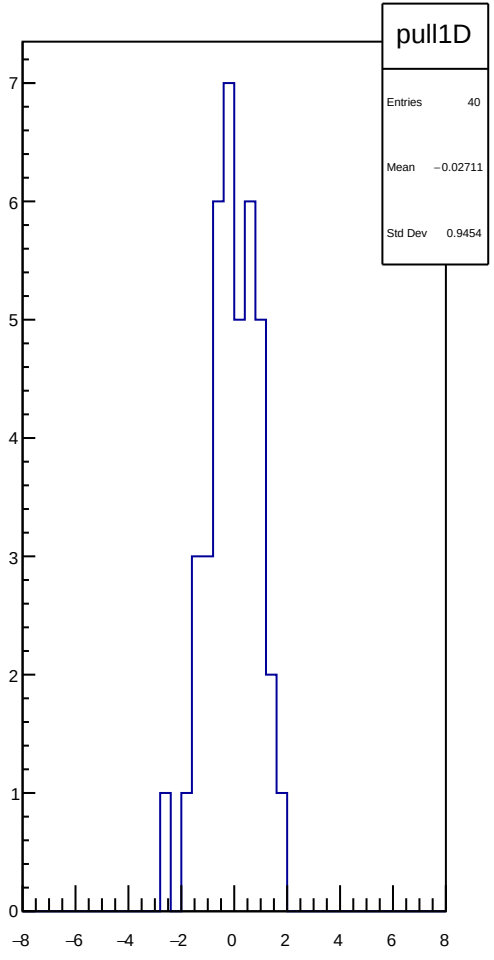

asym_atr1_correction_rms vs run
χ² / ndf 7279 / 39
p0 590.2 ± 0.6578
850
800
750
700
650
600
550
500
450
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

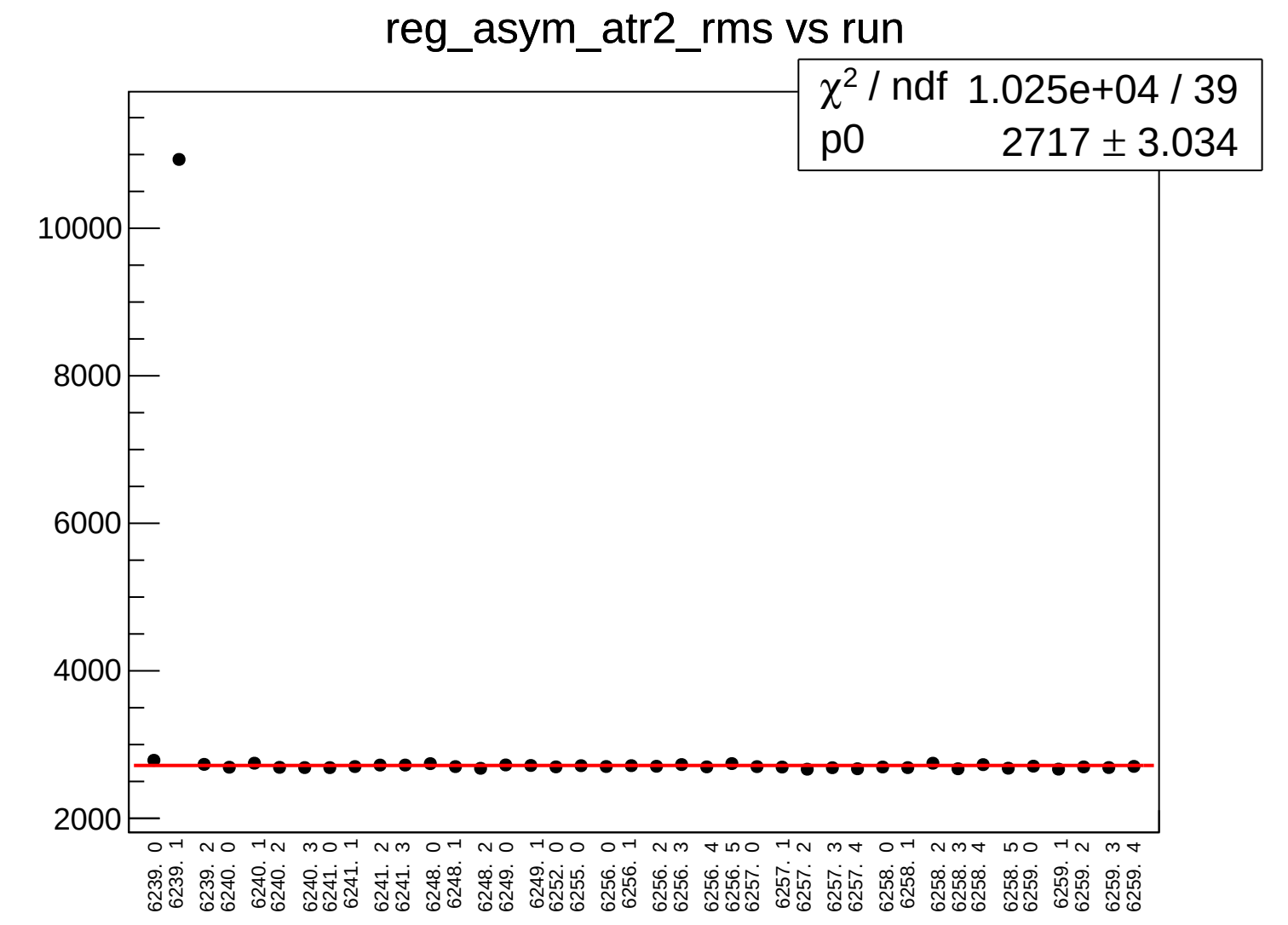

asym_atr1_mean vs run
×10^3
χ² / ndf 50.15 / 39
p0 8060 ± 4568
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 454.1
Std Dev 441.1
3
2
1
0
−1
−2

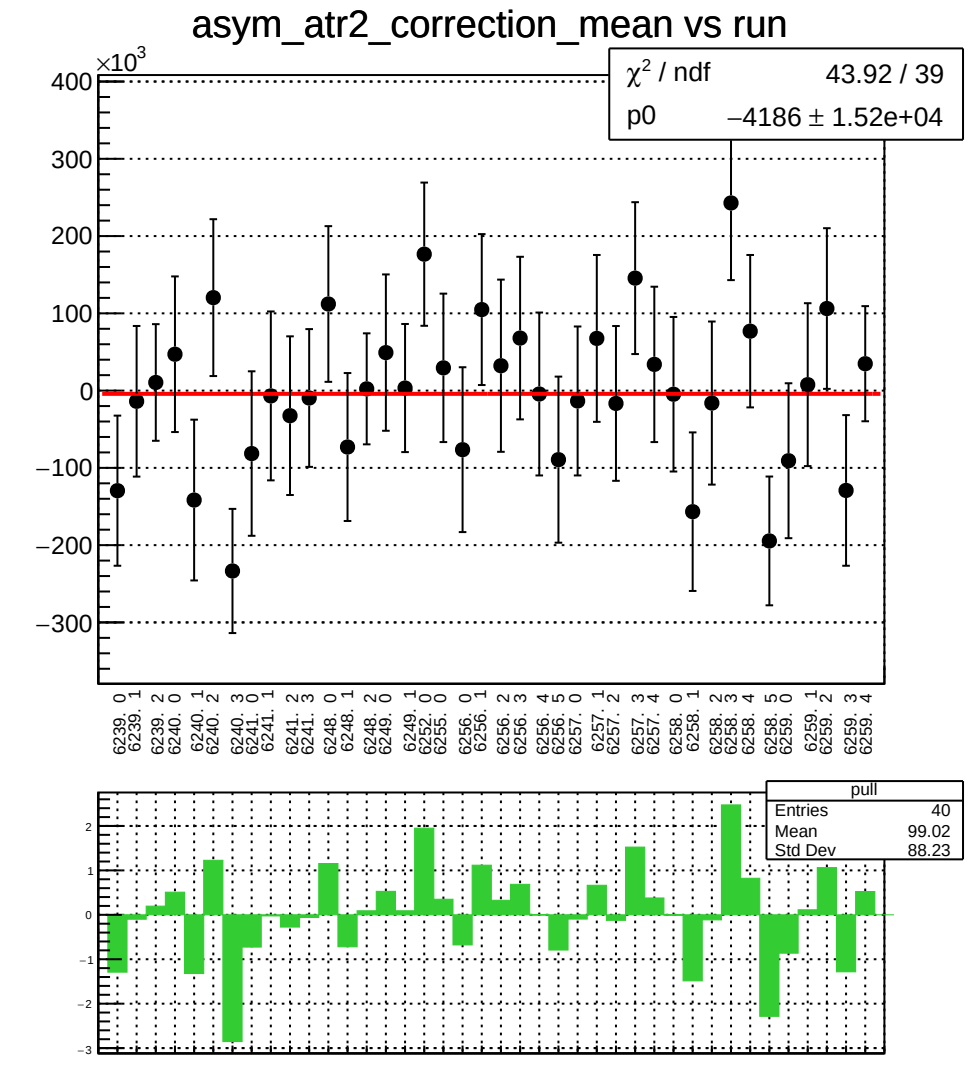

pull1D
Entries 40
Mean 0.00224
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

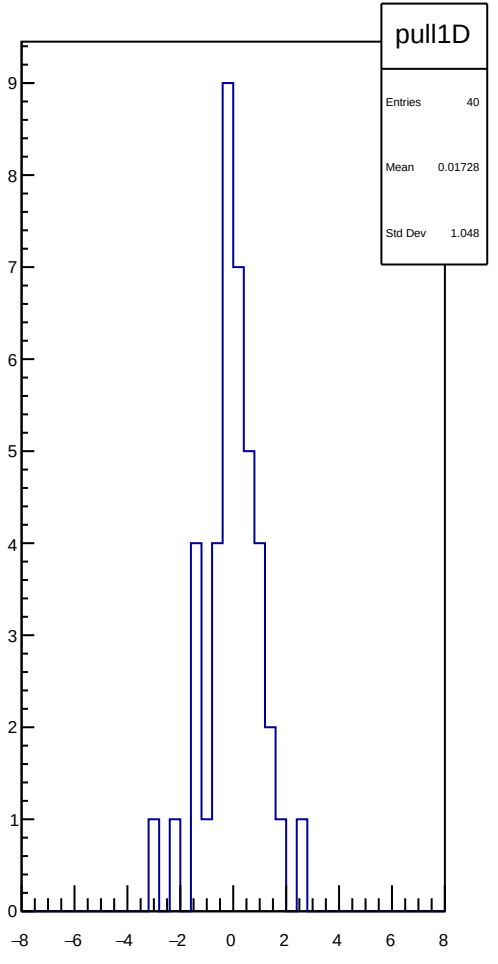

asym_atr1_rms vs run
χ² / ndf 57.51 / 39
p0 2911 ± 3.23
3000
2980
2960
2940
2920
2900
2880
2860
2840
2820
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

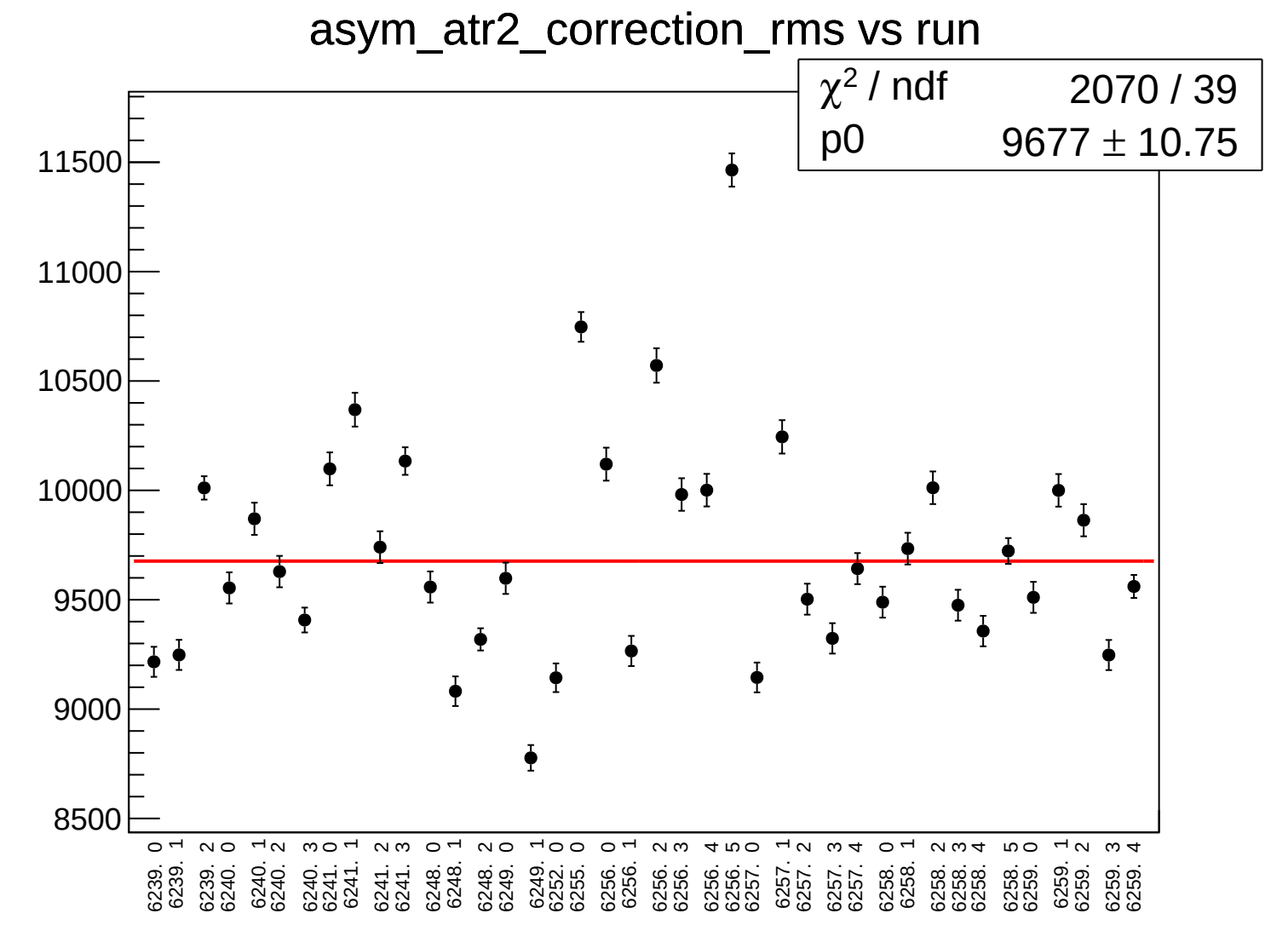

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 35.78 / 39
p0 3908 ± 4290
100
50
0
−50
−100
−150
−200
−250
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 96.62
Std Dev 78.22
2
1
0
−1
−2

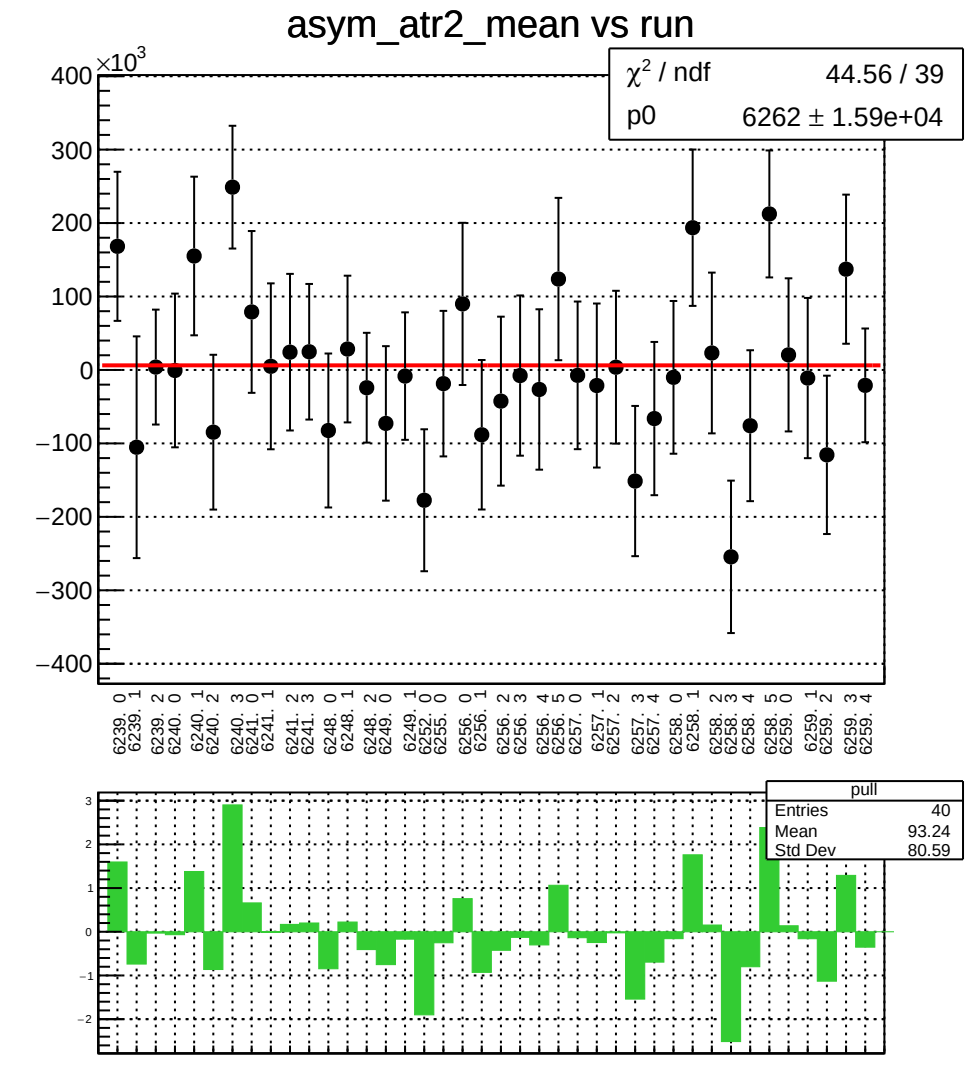

pull1D
Entries 40
Mean −0.02711
Std Dev 0.9454
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

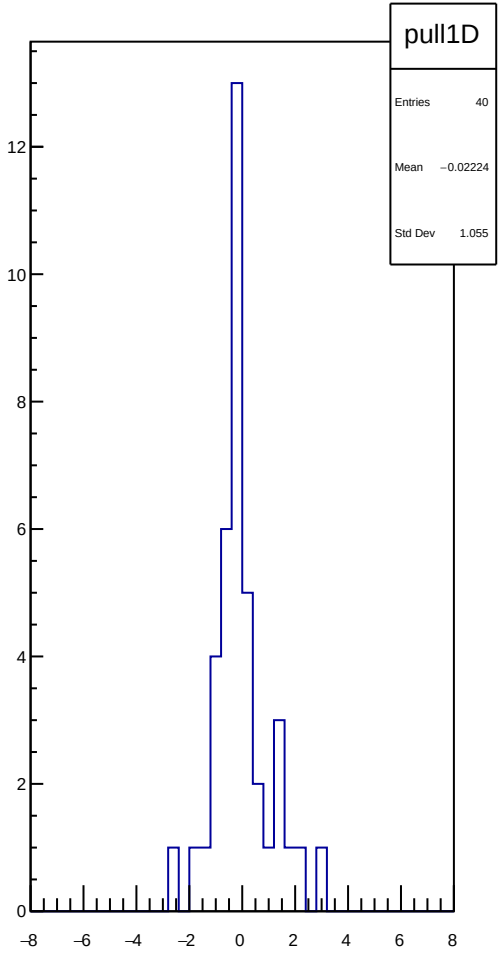

reg_asym_atr2_rms vs run
χ² / ndf 1.025e+04 / 39
p0 2717 ± 3.034
10000
8000
6000
4000
2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

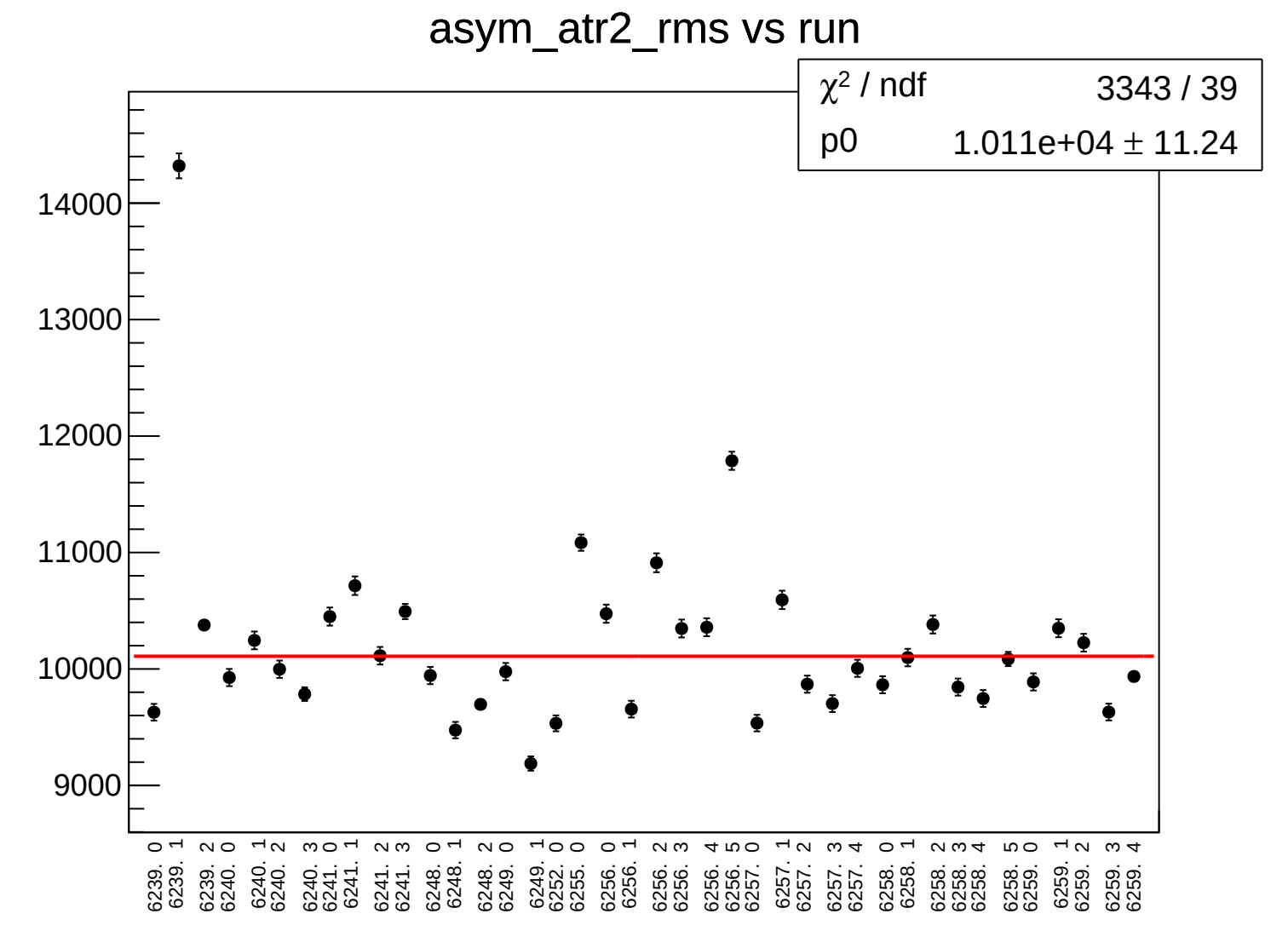

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 43.92 / 39
p0 −4186 ± 1.52e+04
400
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 99.02
Std Dev 88.23
2
1
0
−1
−2
−3

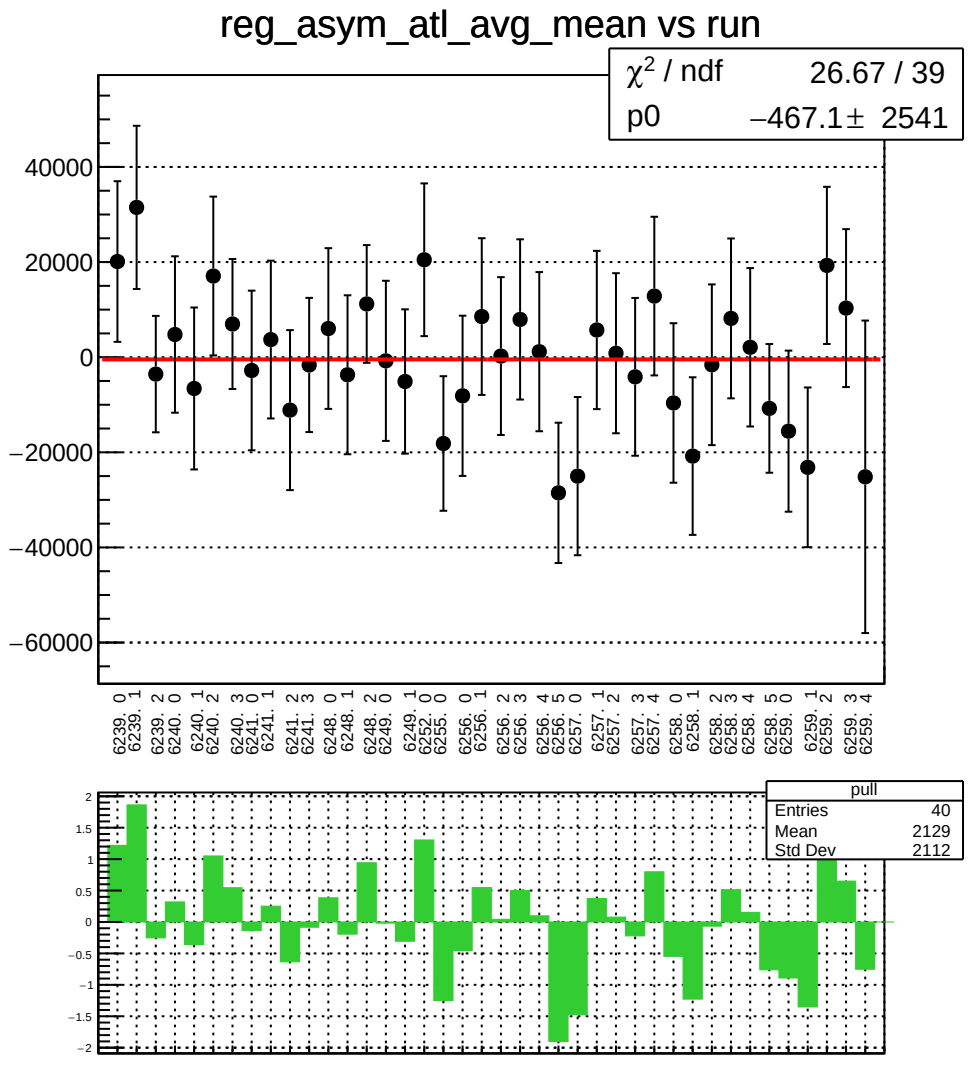

pull1D
Entries 40
Mean 0.01728
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

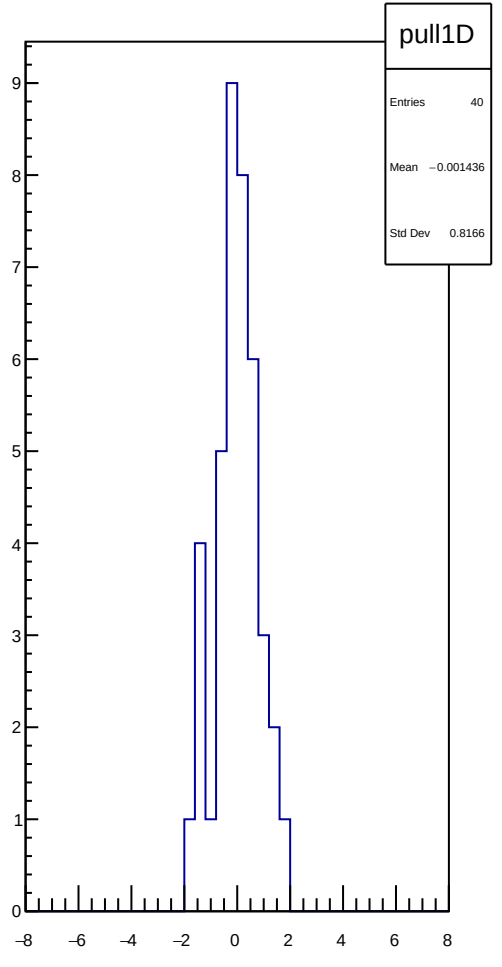

asym_atr2_correction_rms vs run
χ² / ndf 2070 / 39
p0 9677 ± 10.75
11500
11000
10500
10000
9500
9000
8500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

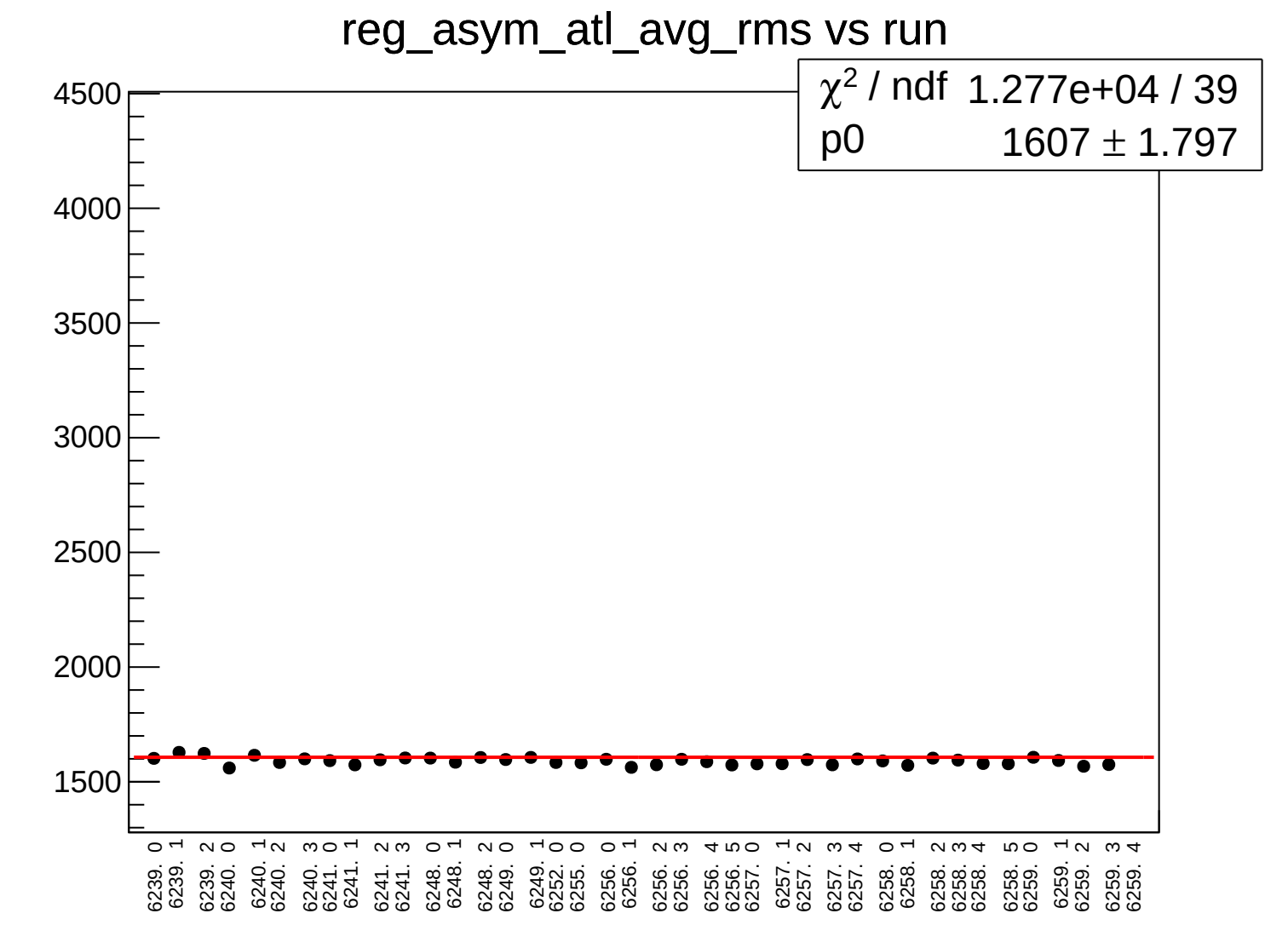

asym_atr2_mean vs run
×10^3
χ² / ndf 44.56 / 39
p0 6262 ± 1.59e+04
pull
Entries 40
Mean 93.24
Std Dev 80.59

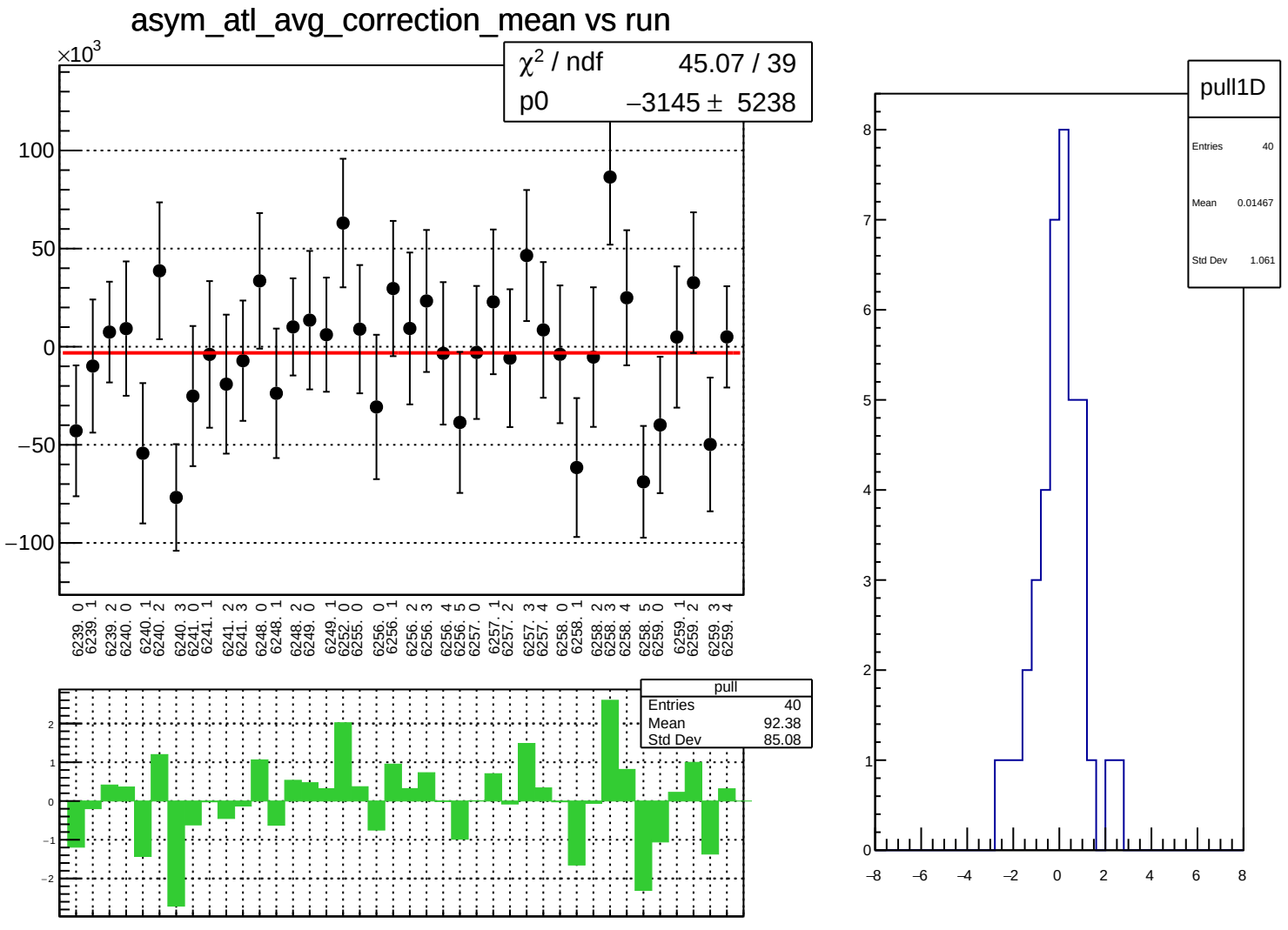

pull1D
Entries 40
Mean −0.02224
Std Dev 1.055

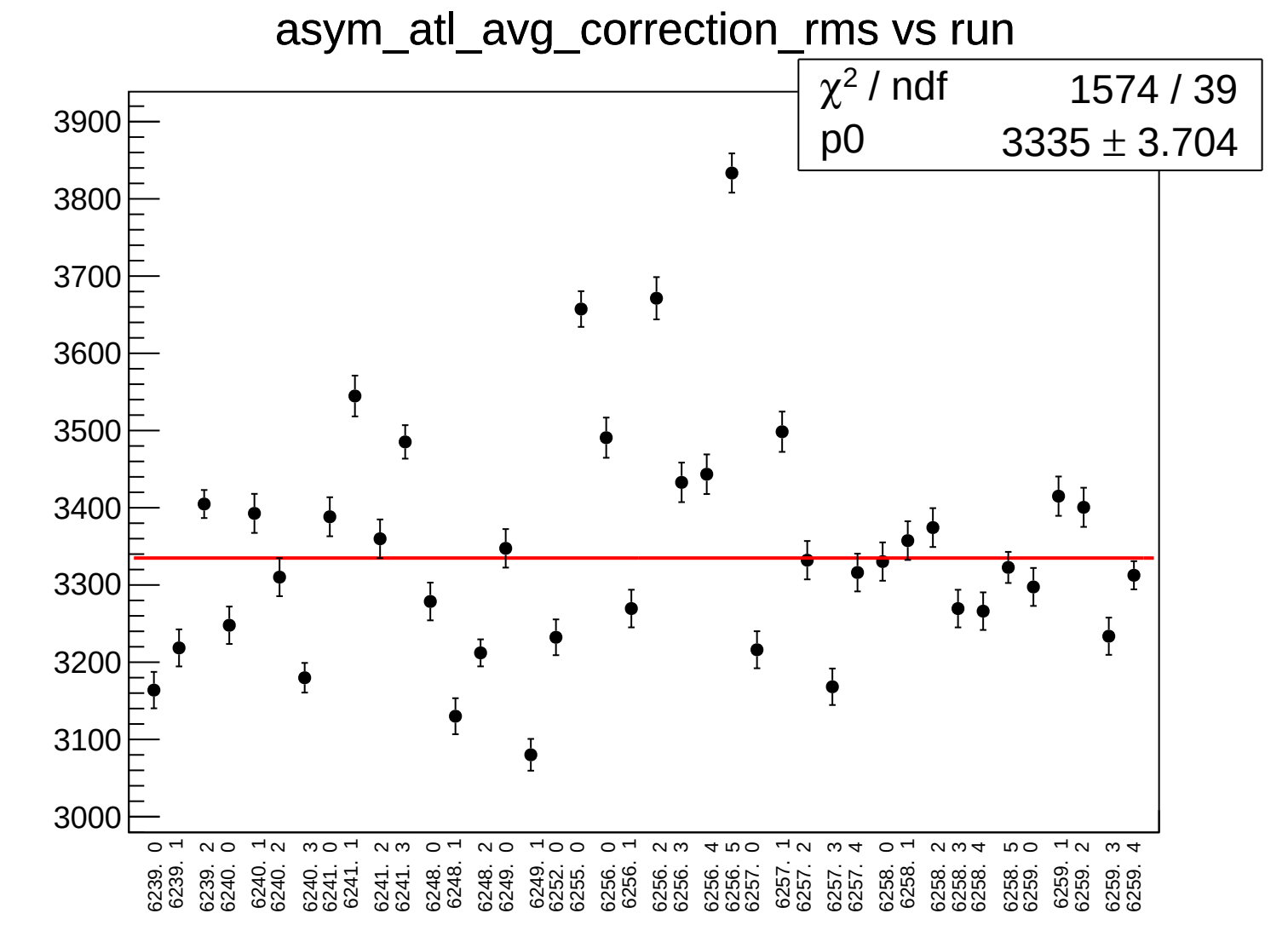

asym_atr2_rms vs run
χ² / ndf 3343 / 39
p0 1.011e+04 ± 11.24
14000
13000
12000
11000
10000
9000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

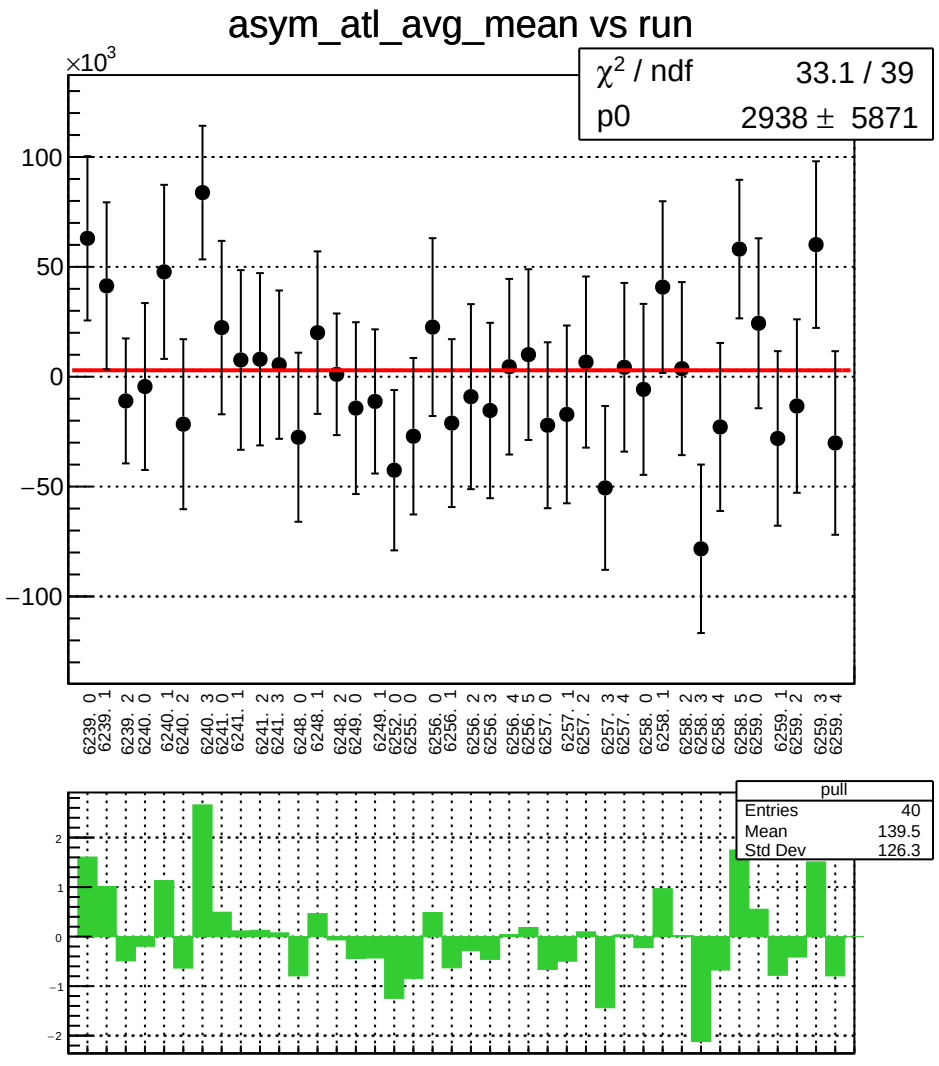

reg_asym_atl_avg_mean vs run
χ² / ndf 26.67 / 39
p0 −467.1± 2541
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 2129
Std Dev 2112
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

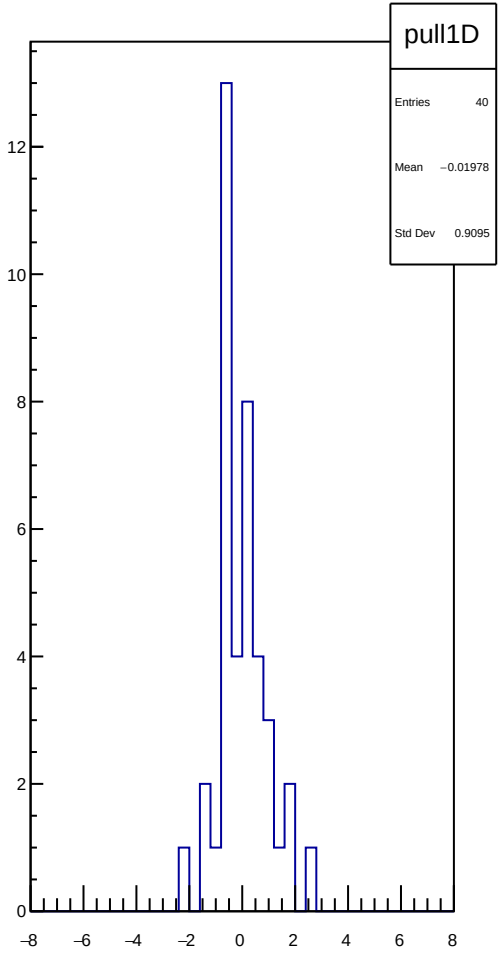

pull1D
Entries 40
Mean −0.001436
Std Dev 0.8166
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

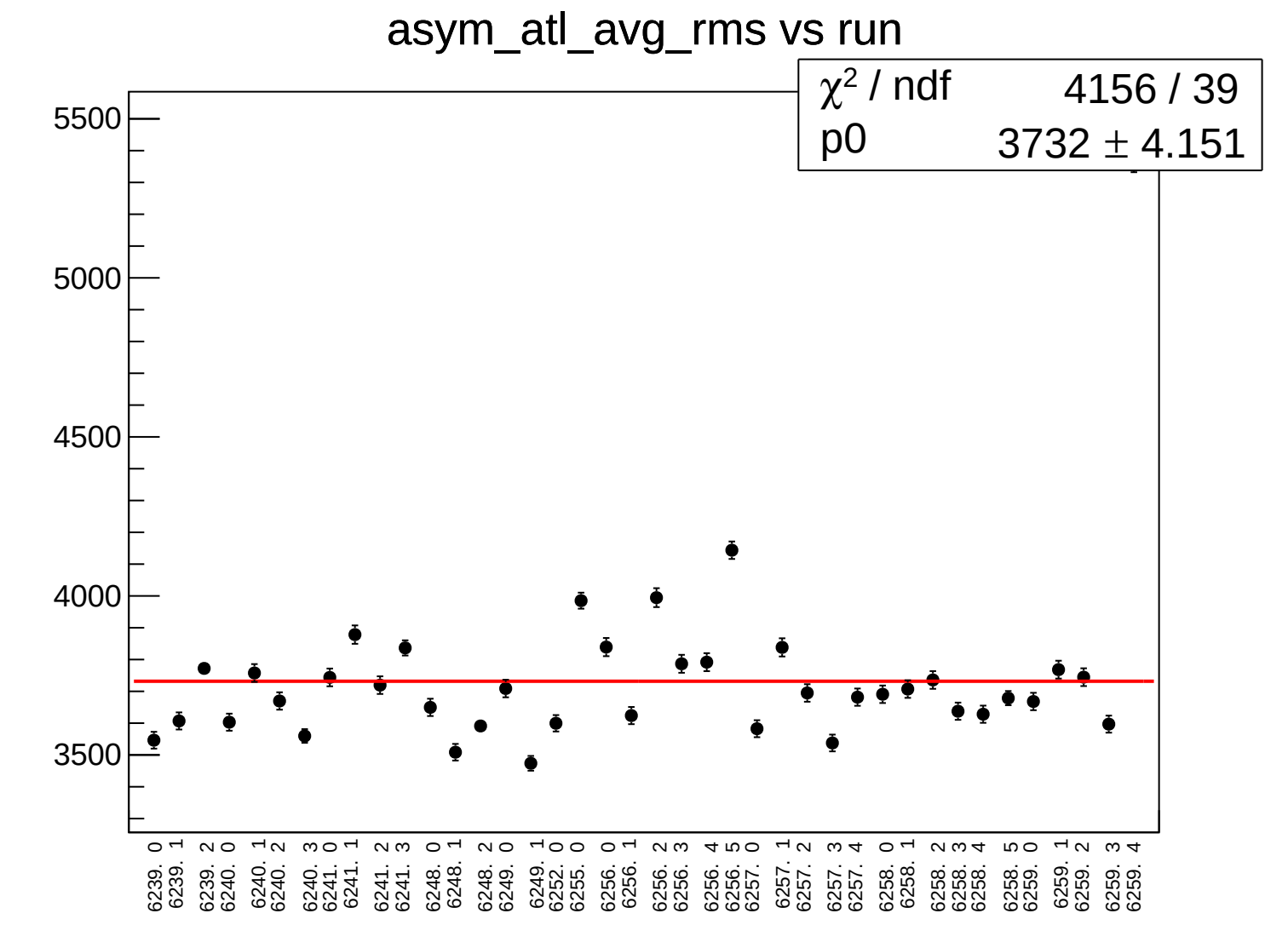

reg_asym_atl_avg_rms vs run
χ² / ndf 1.277e+04 / 39
p0 1607 ± 1.797
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

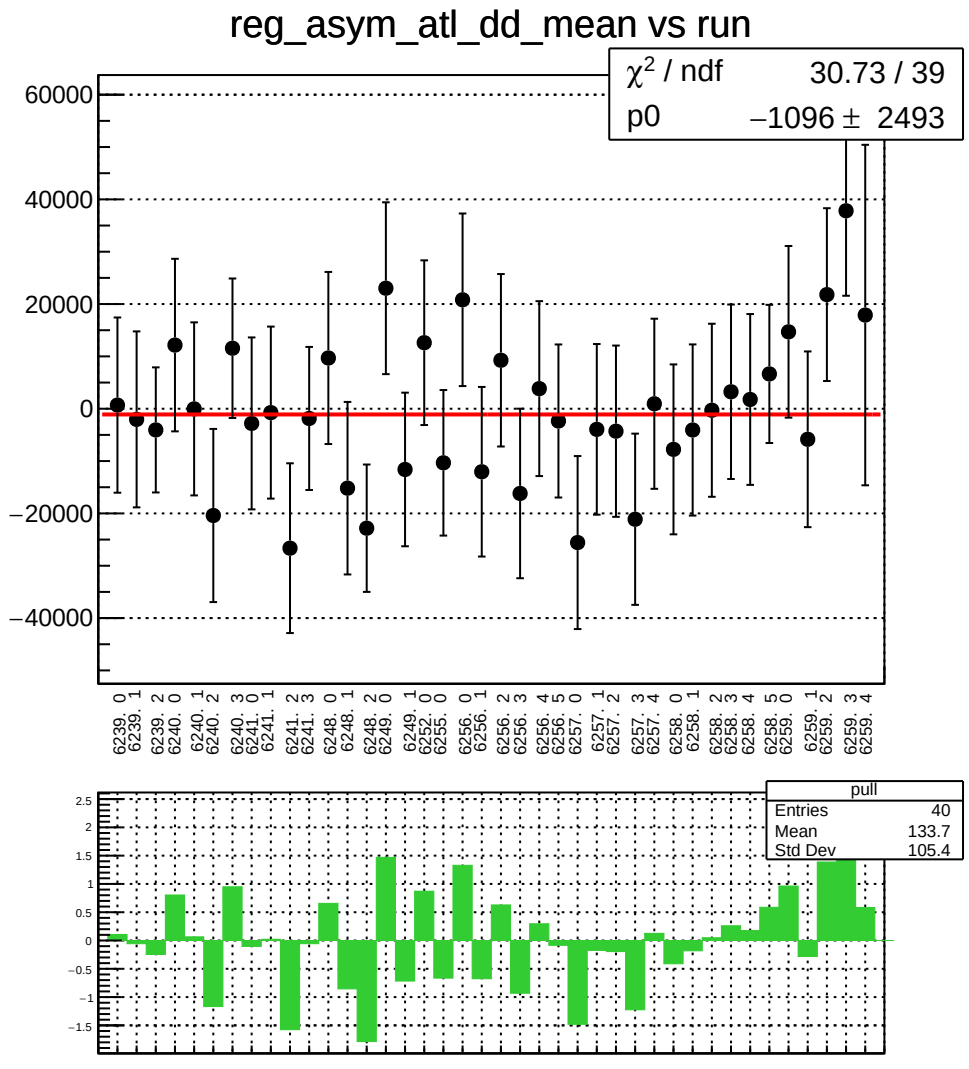

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 45.07 / 39
p0 −3145 ± 5238
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 92.38
Std Dev 85.08
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.01467
Std Dev 1.061
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

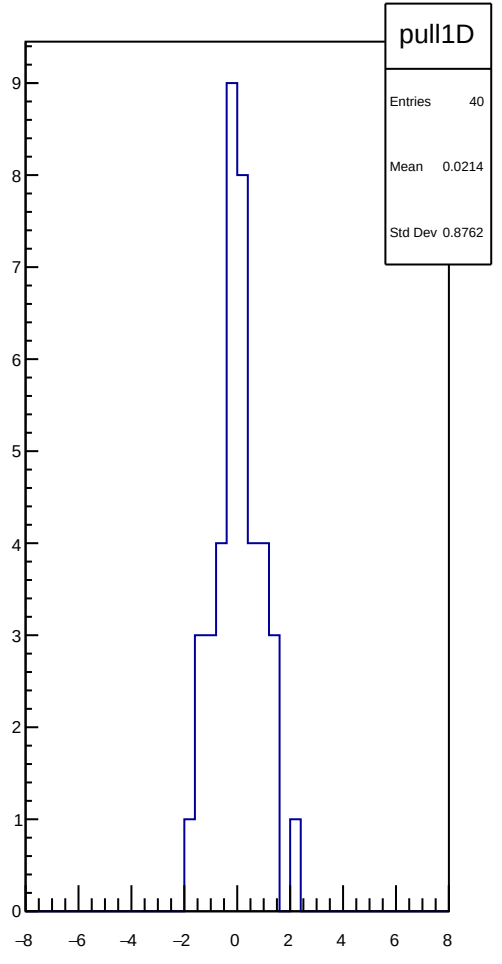

asym_atl_avg_correction_rms vs run
χ² / ndf 1574 / 39
p0 3335 ± 3.704
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

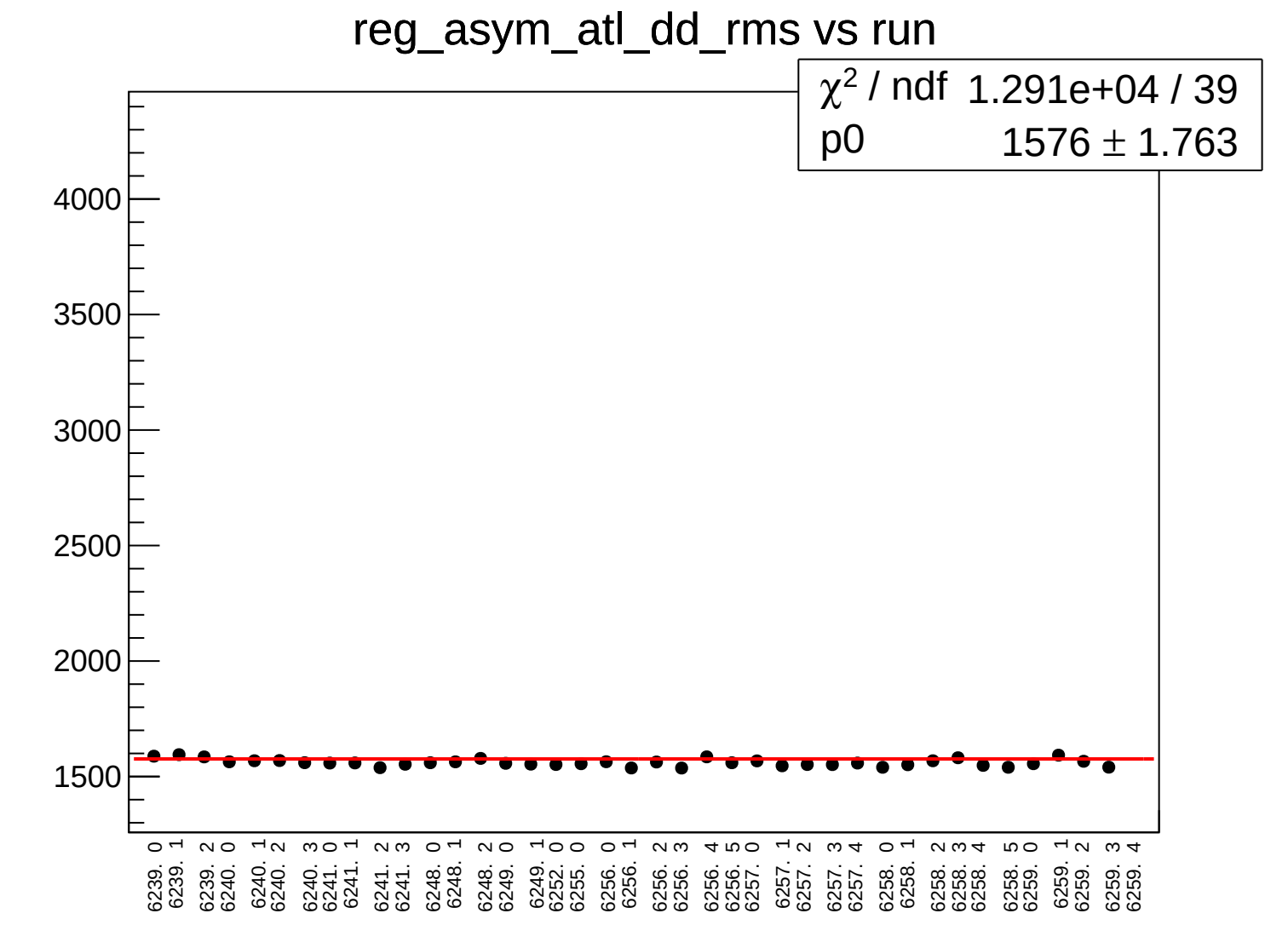

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 33.1 / 39
p0 2938 ± 5871
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 139.5
Std Dev 126.3
2
1
0
−1
−2

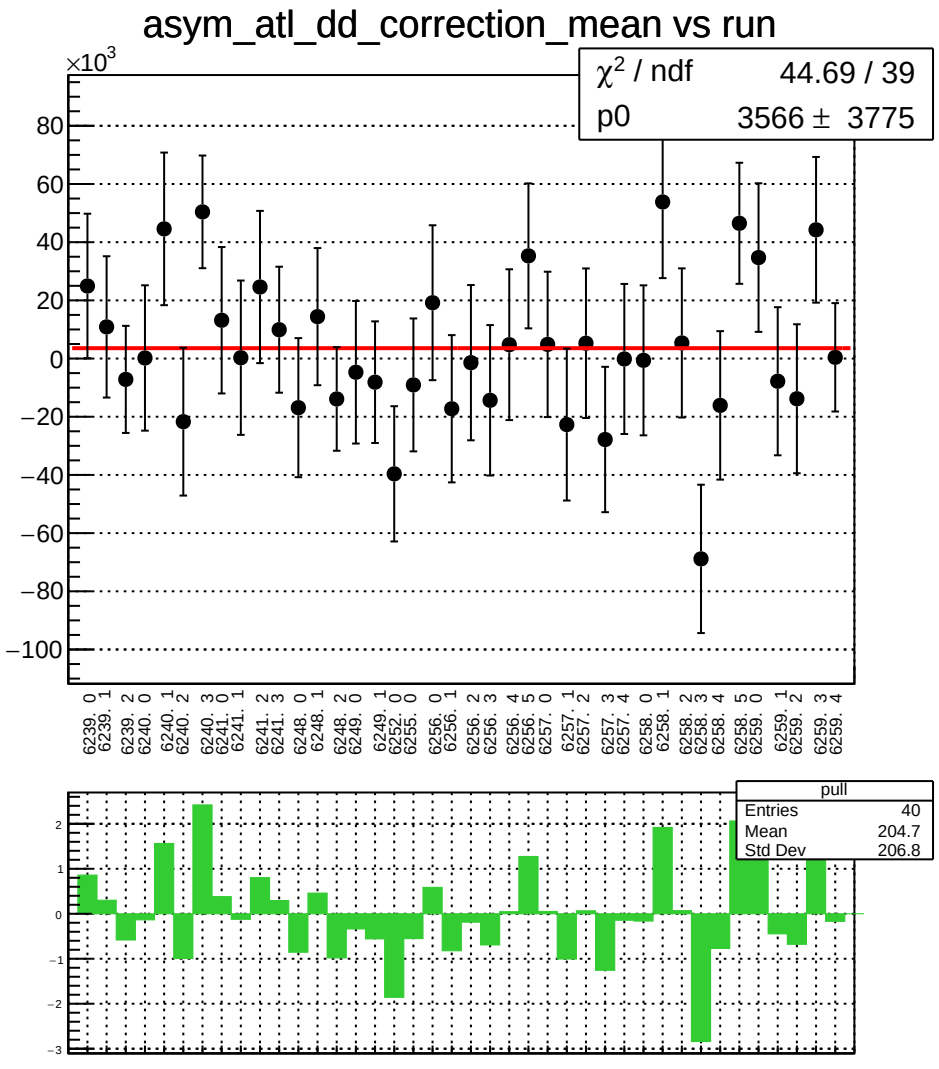

pull1D
Entries 40
Mean −0.01978
Std Dev 0.9095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

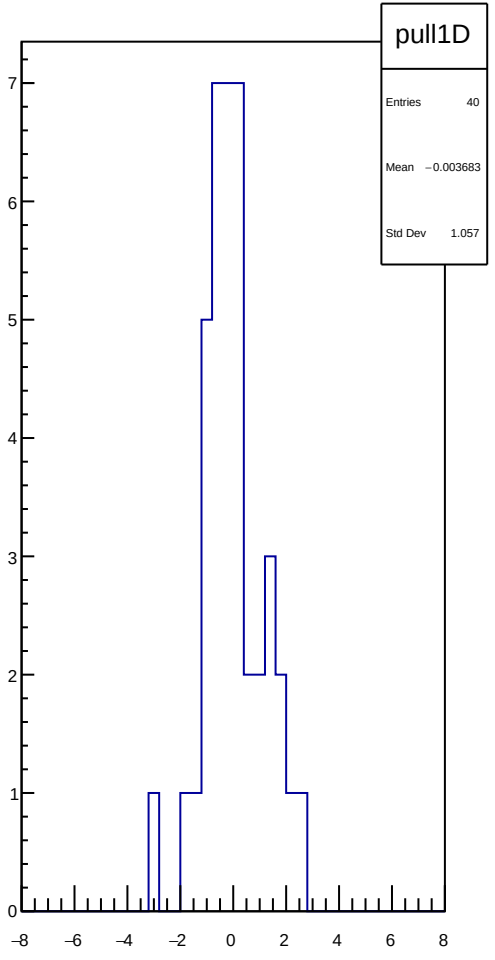

asym_atl_avg_rms vs run
χ² / ndf 4156 / 39
p0 3732 ± 4.151
5500
5000
4500
4000
3500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

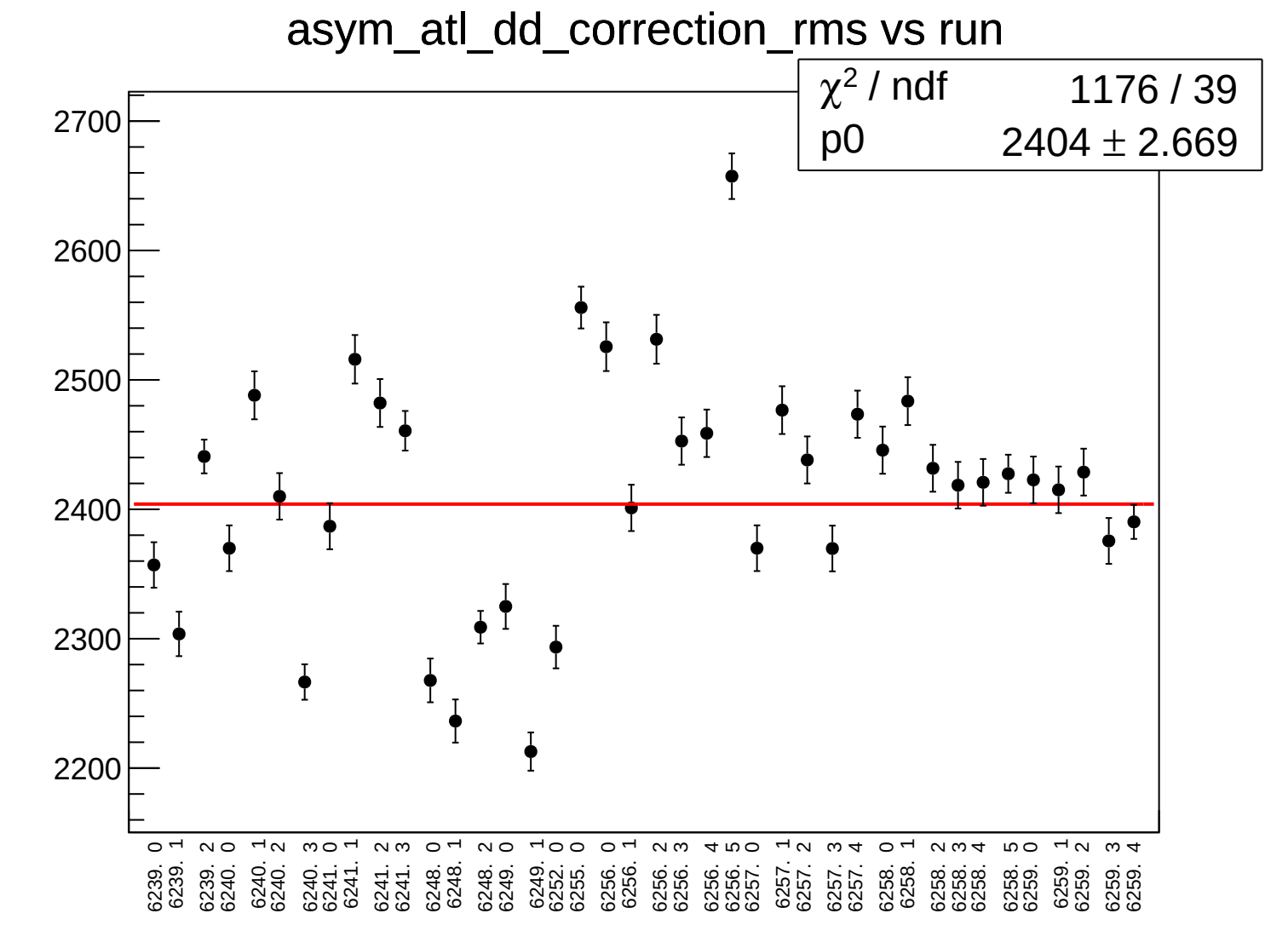

reg_asym_atl_dd_mean vs run
χ² / ndf 30.73 / 39
p0 −1096 ± 2493
60000
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 133.7
Std Dev 105.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

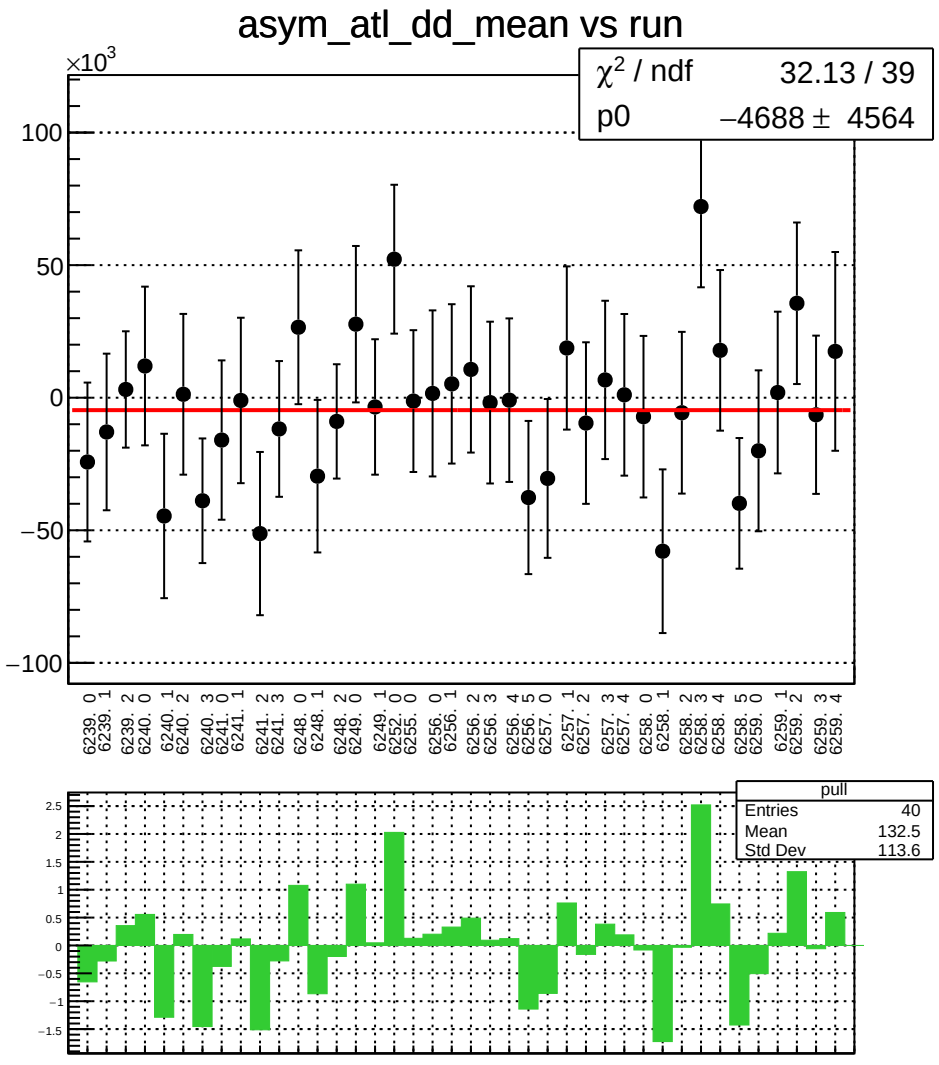

pull1D
Entries 40
Mean 0.0214
Std Dev 0.8762
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

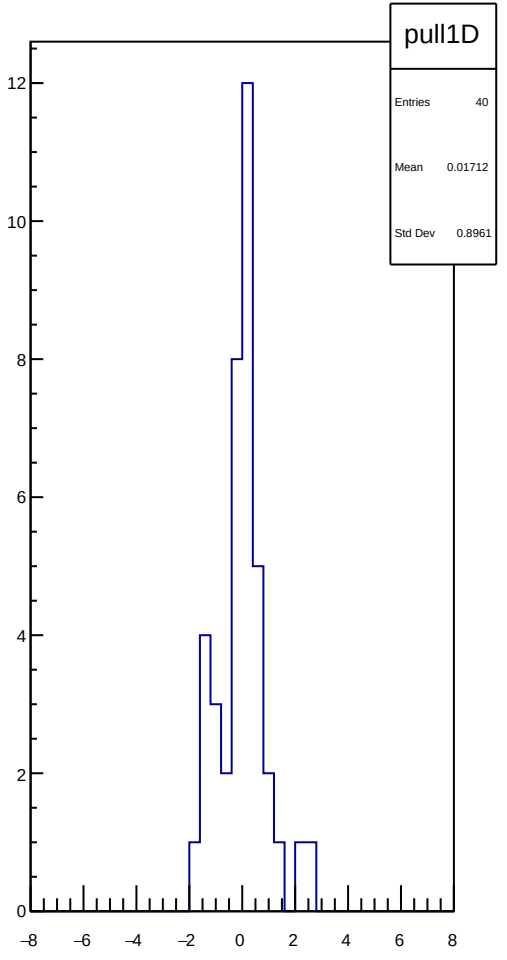

reg_asym_atl_dd_rms vs run
χ² / ndf 1.291e+04 / 39
p0 1576 ± 1.763
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

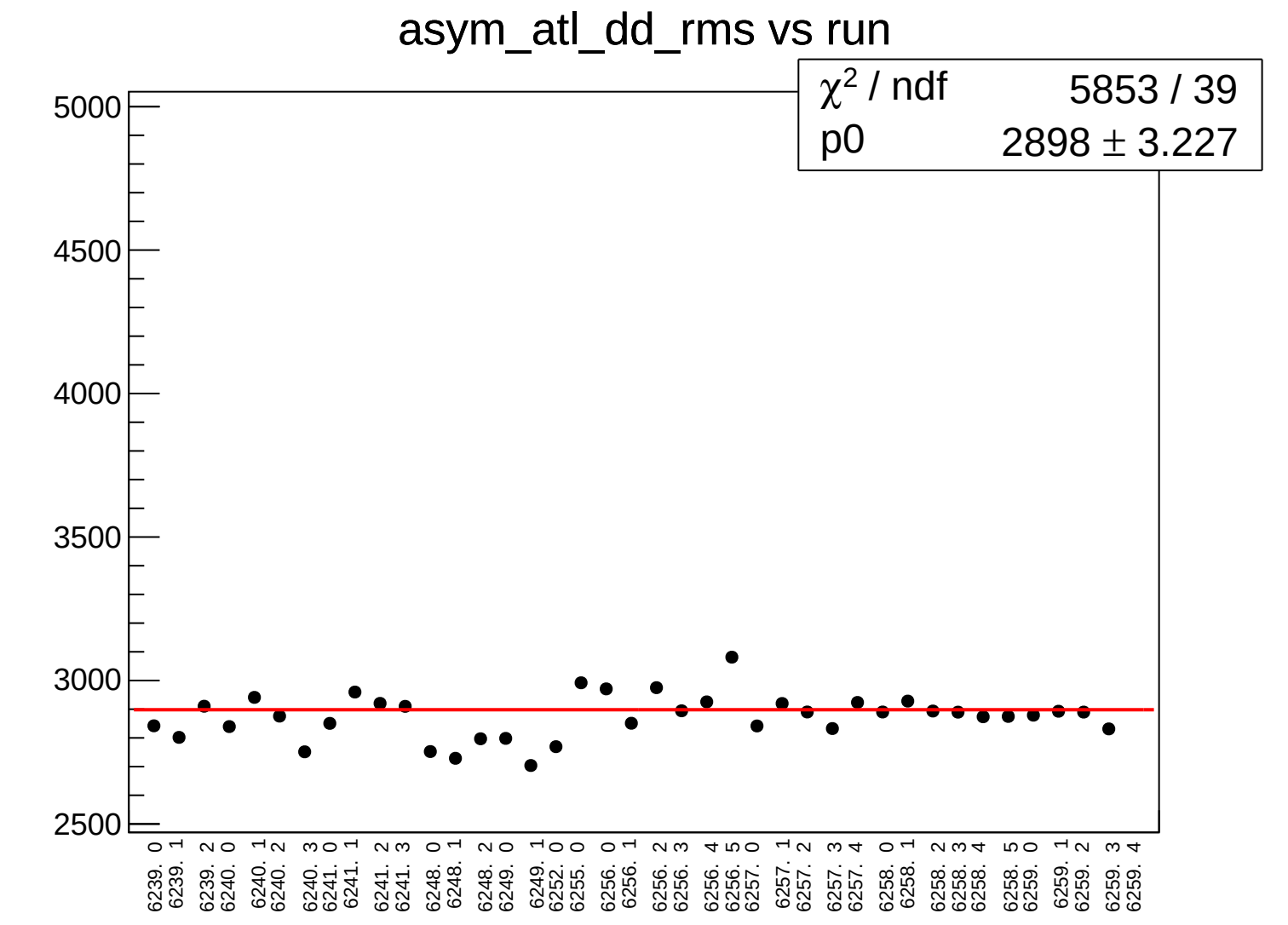

asym_atl_dd_correction_mean vs run
χ² / ndf 44.69 / 39
p0 3566 ± 3775
pull
Entries 40
Mean 204.7
Std Dev 206.8

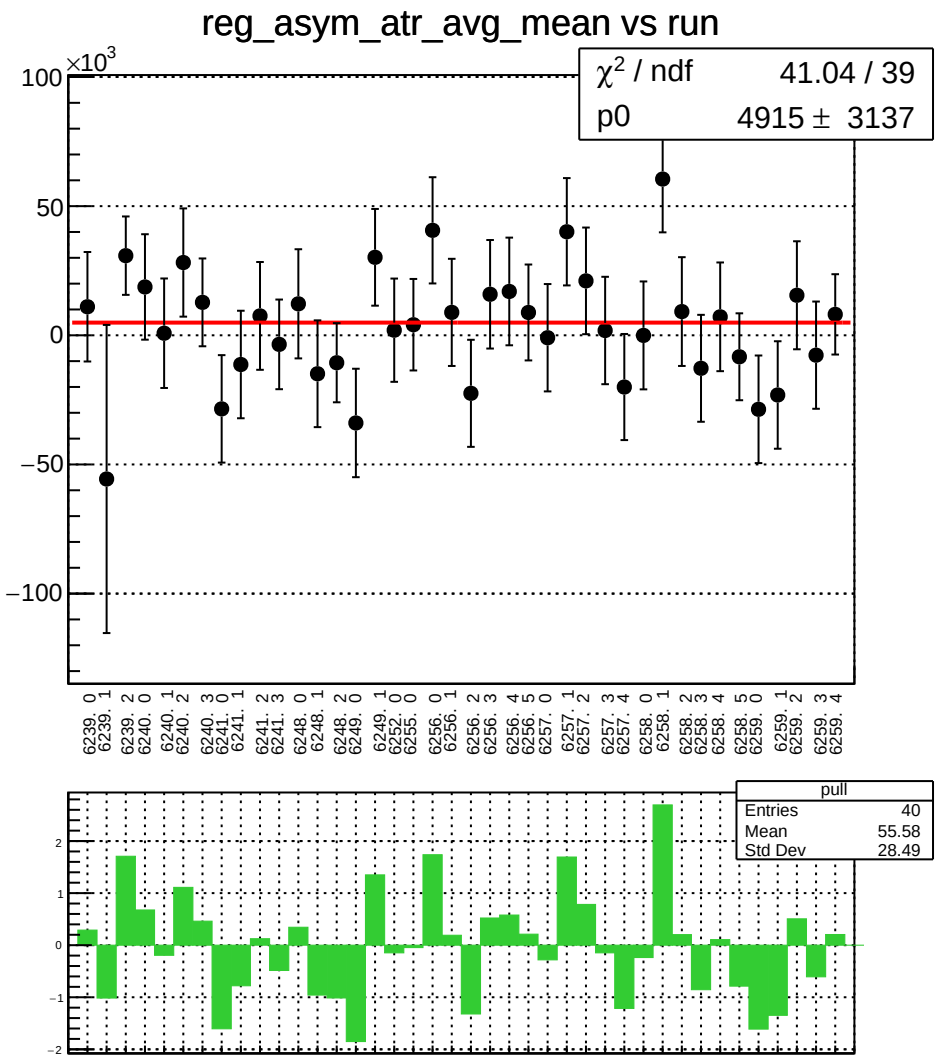

pull1D
Entries 40
Mean −0.003683
Std Dev 1.057

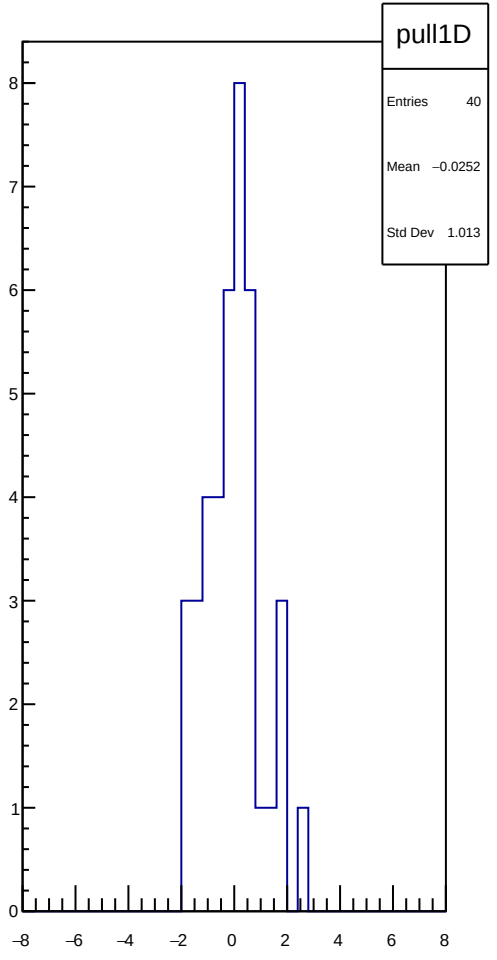

asym_atl_dd_correction_rms vs run
χ² / ndf 1176 / 39
p0 2404 ± 2.669
2700
2600
2500
2400
2300
2200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

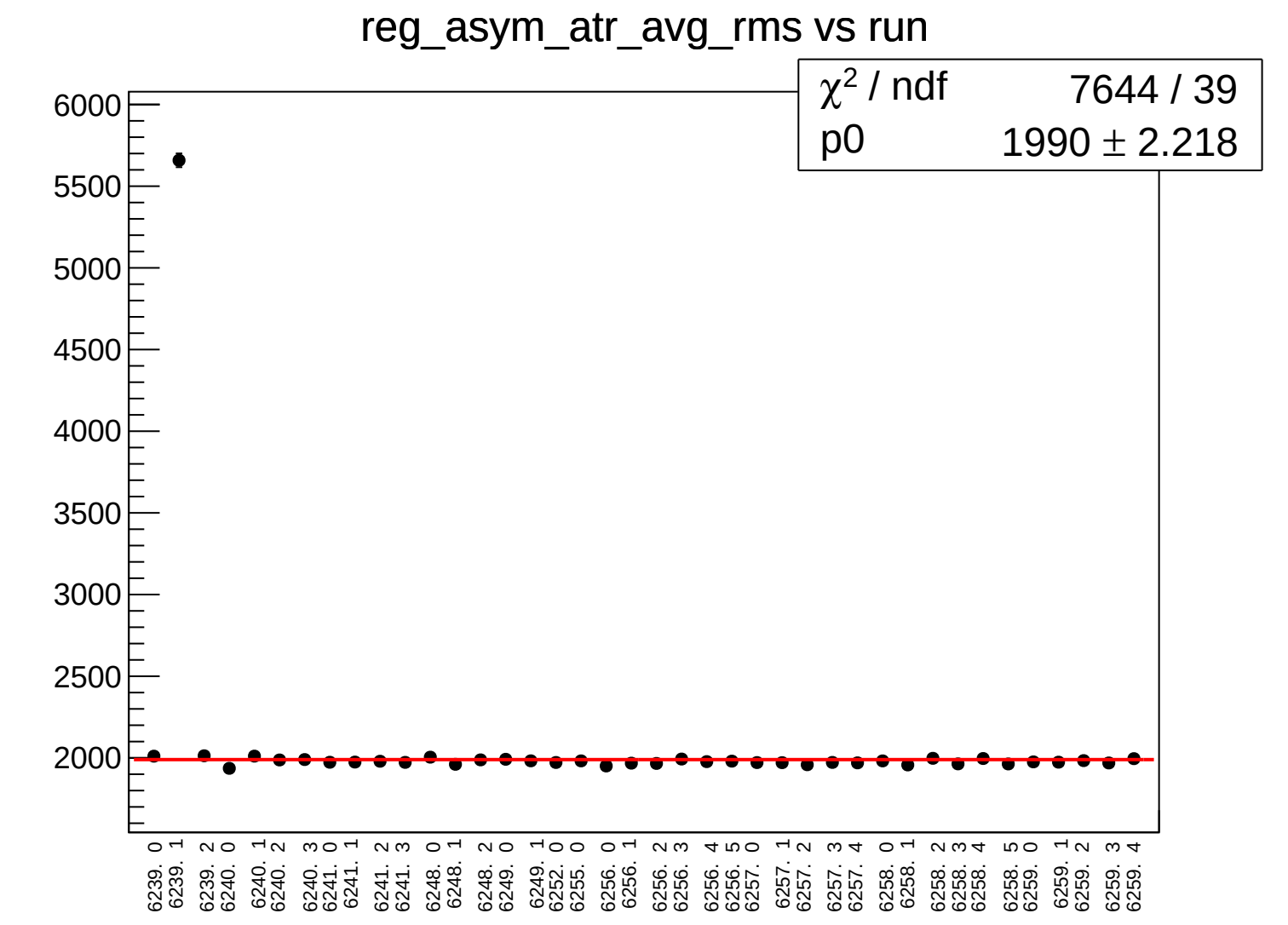

asym_atl_dd_mean vs run
×10^3
χ² / ndf 32.13 / 39
p0 −4688 ± 4564
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 132.5
Std Dev 113.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

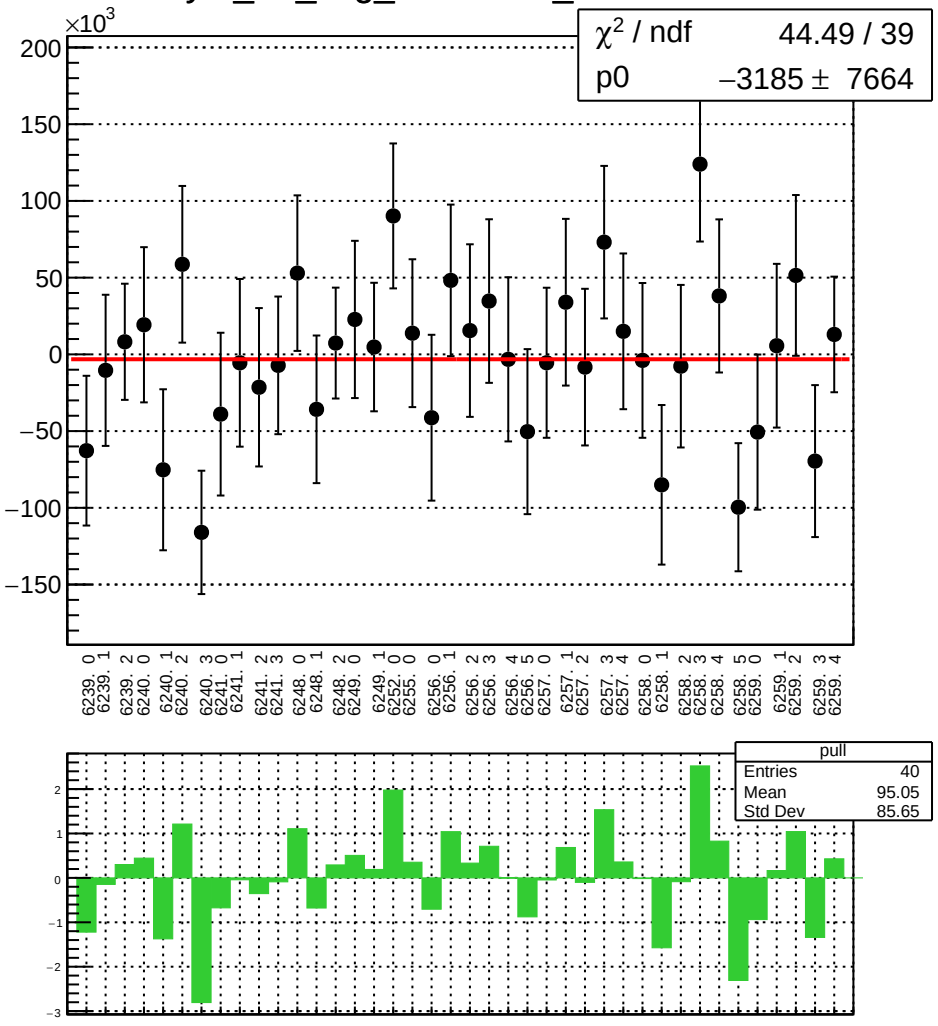

pull1D
Entries 40
Mean 0.01712
Std Dev 0.8961
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

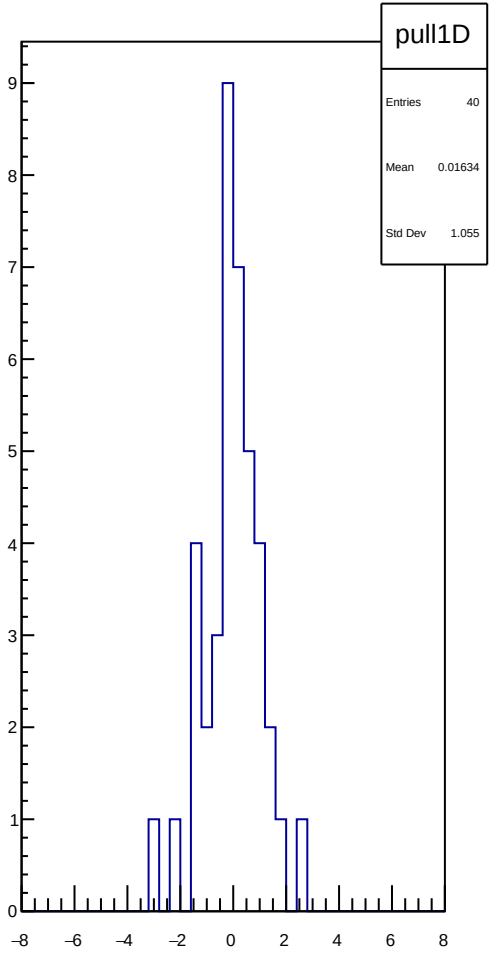

asym_atl_dd_rms vs run
$\chi^2$ / ndf 5853 / 39
p0 2898 ± 3.227
5000
4500
4000
3500
3000
2500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

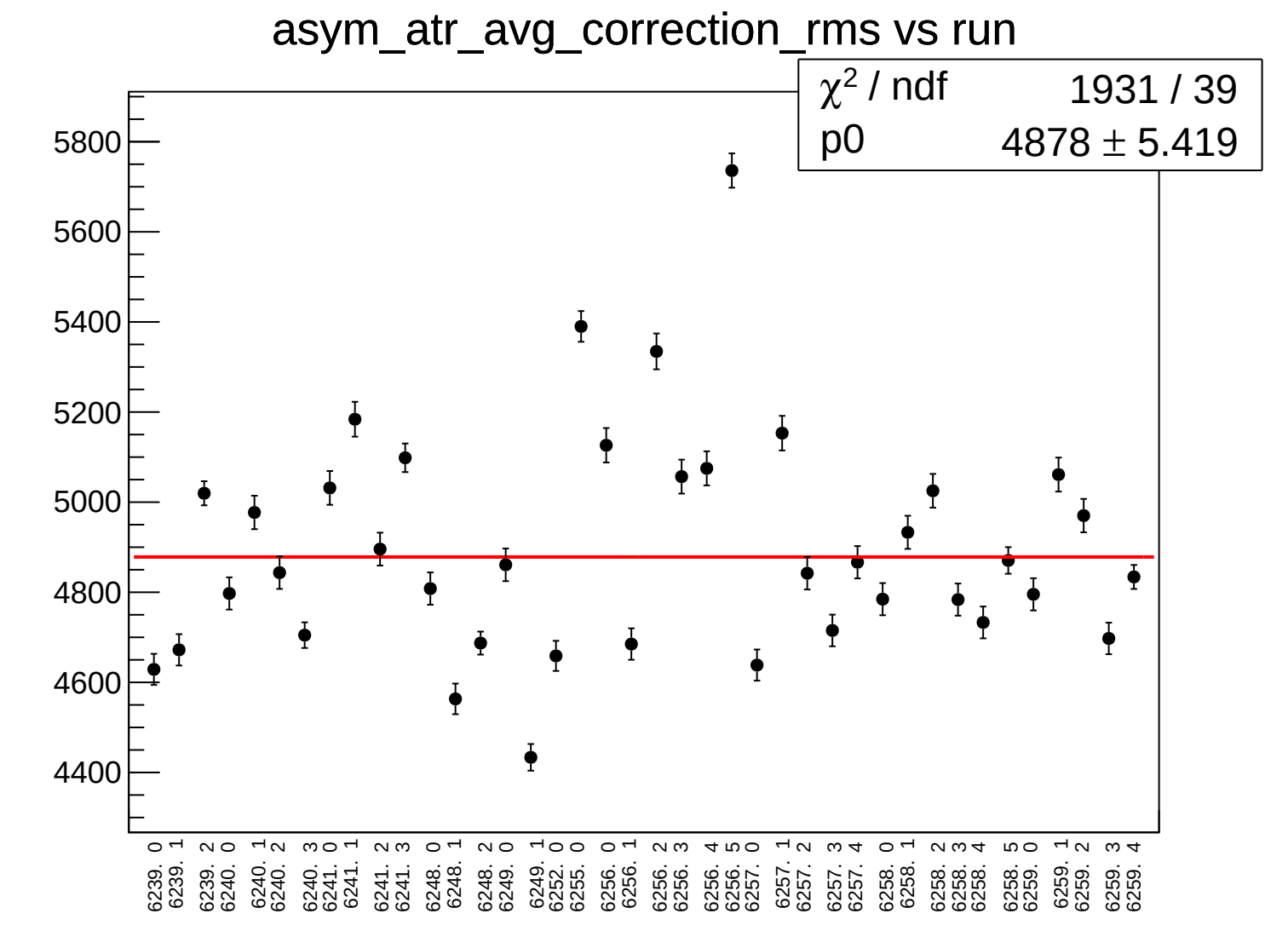

reg_asym_atr_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 41.04 / 39
p0 4915 ± 3137
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 55.58
Std Dev 28.49
2
1
0
−1
−2

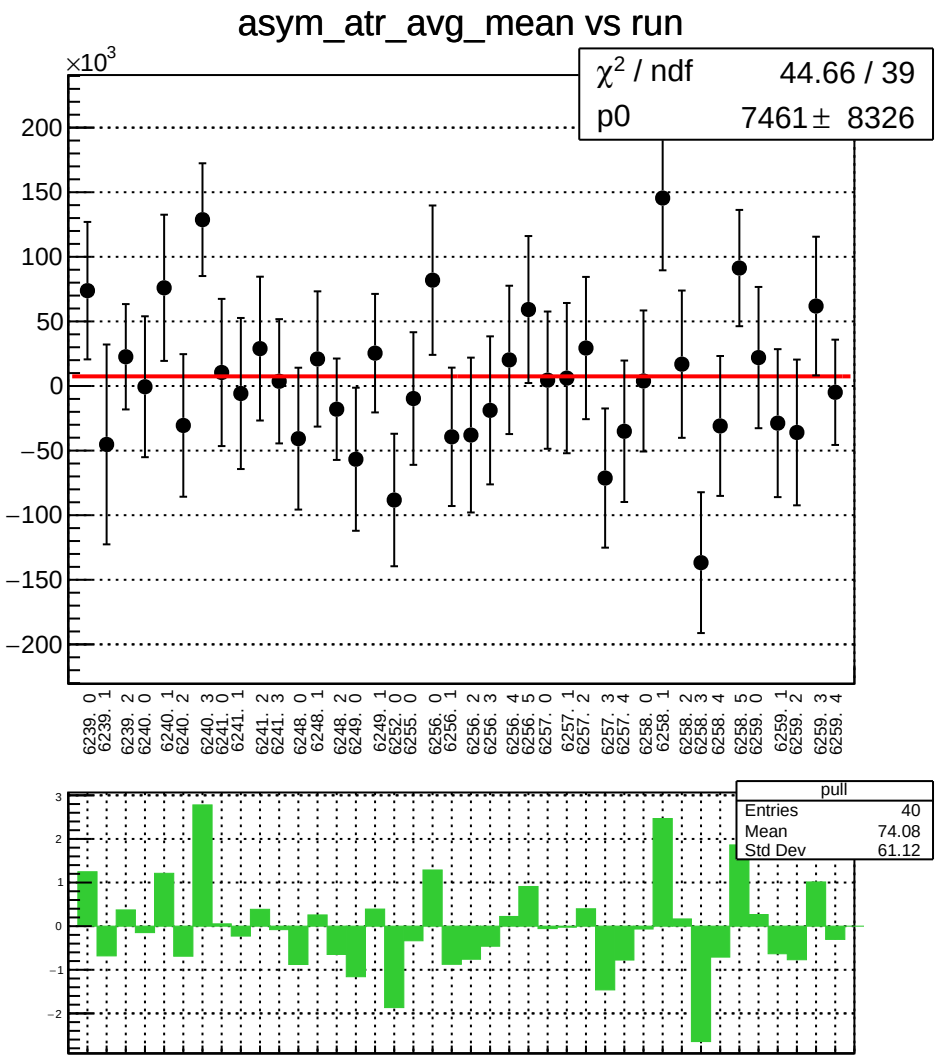

pull1D
Entries 40
Mean −0.0252
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

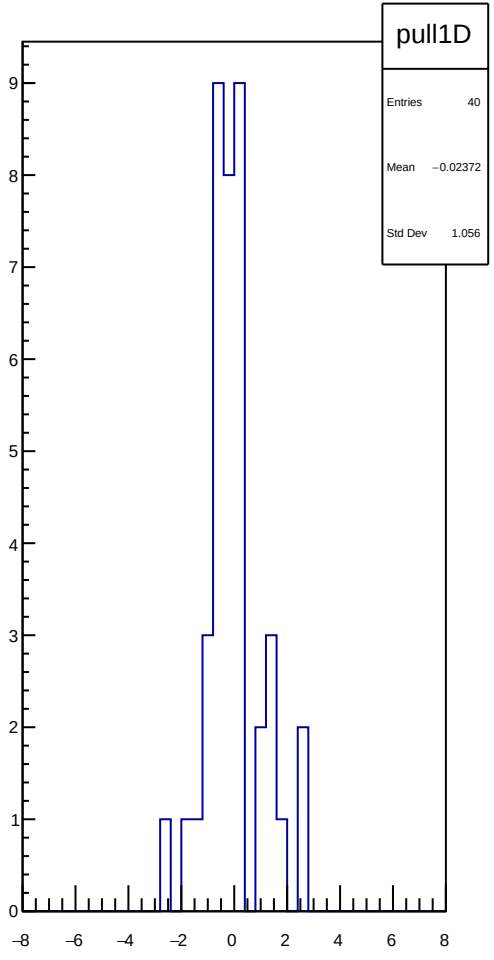

reg_asym_atr_avg_rms vs run
χ² / ndf 7644 / 39
p0 1990 ± 2.218
6000
5500
5000
4500
4000
3500
3000
2500
2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

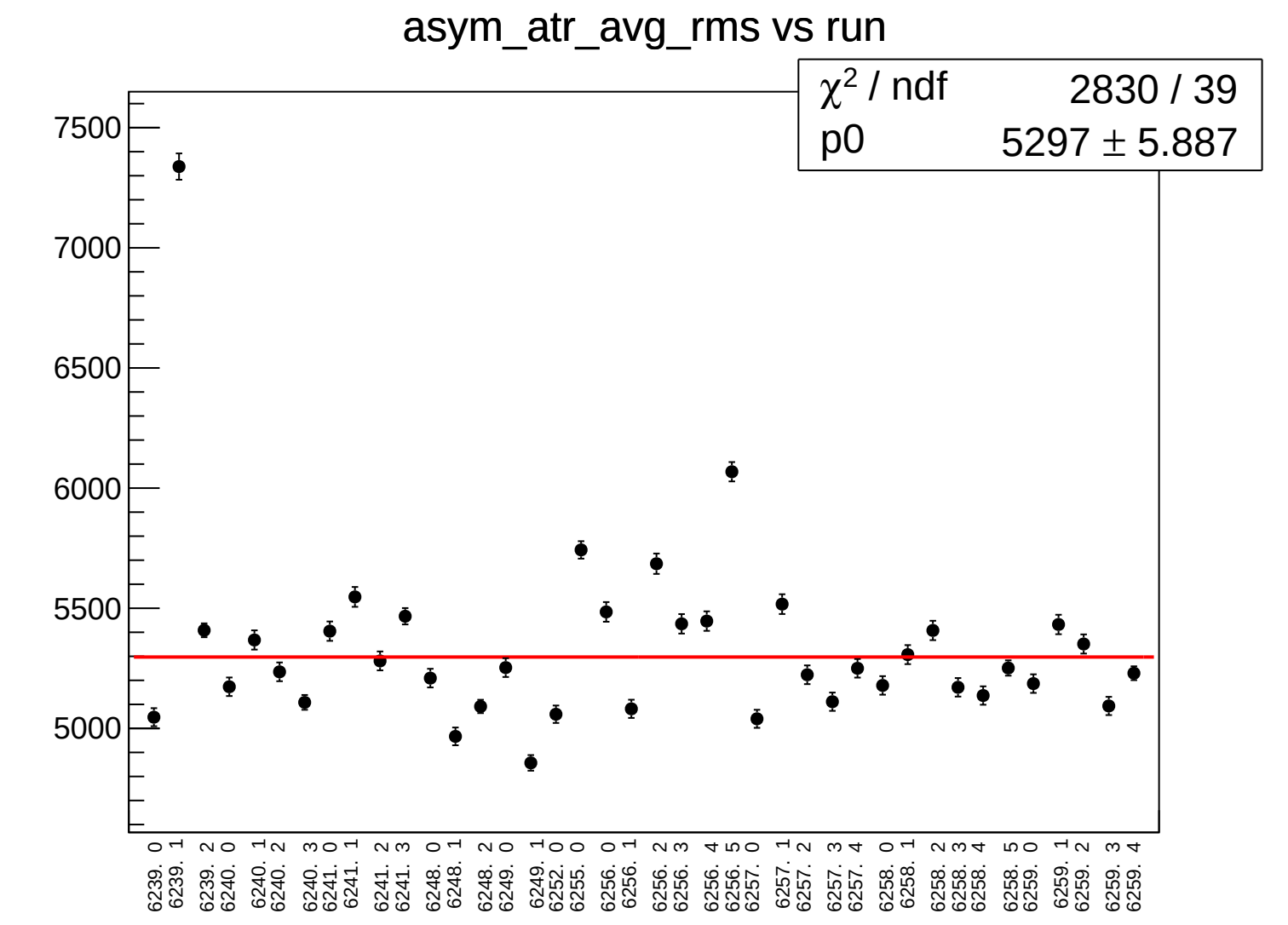

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 44.49 / 39
p0 −3185 ± 7664
200
150
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 95.05
Std Dev 85.65
2
1
0
−1
−2
−3

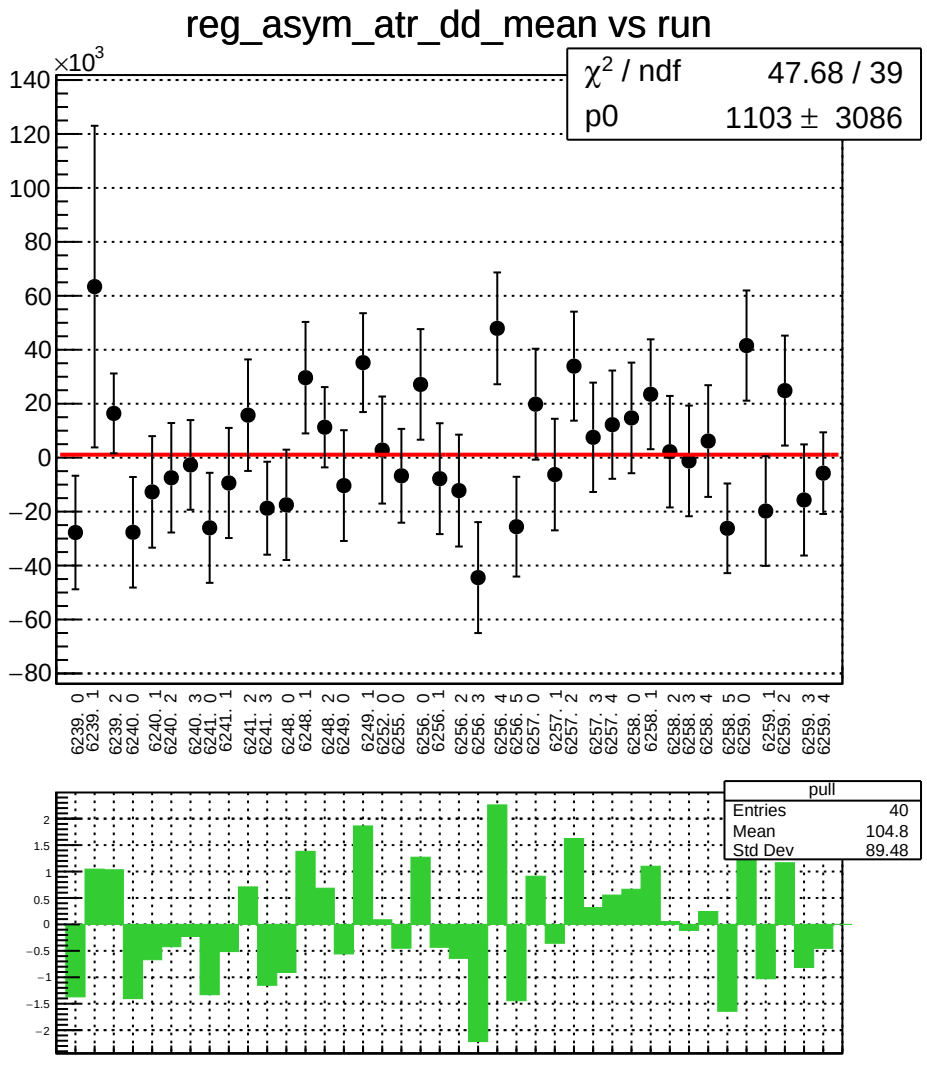

pull1D
Entries 40
Mean 0.01634
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

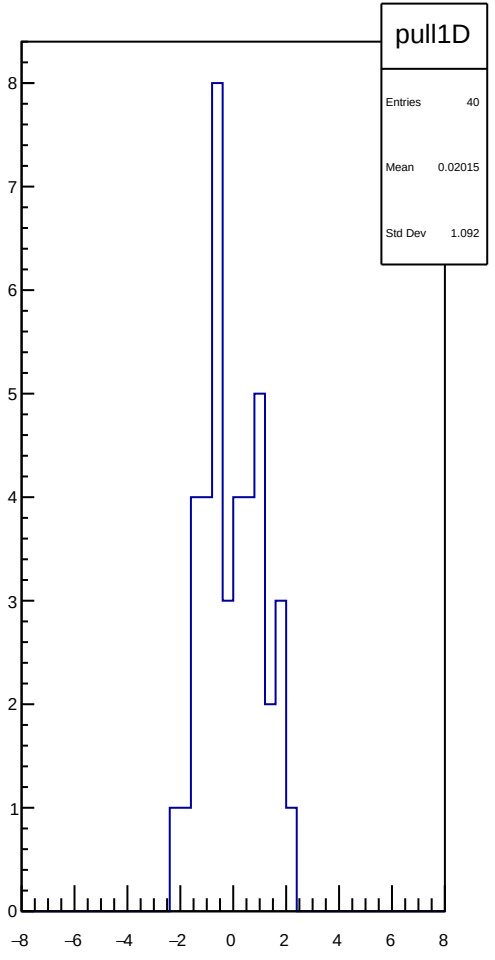

asym_atr_avg_correction_rms vs run
$\chi^2$ / ndf 1931 / 39
p0 4878 ± 5.419
5800
5600
5400
5200
5000
4800
4600
4400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

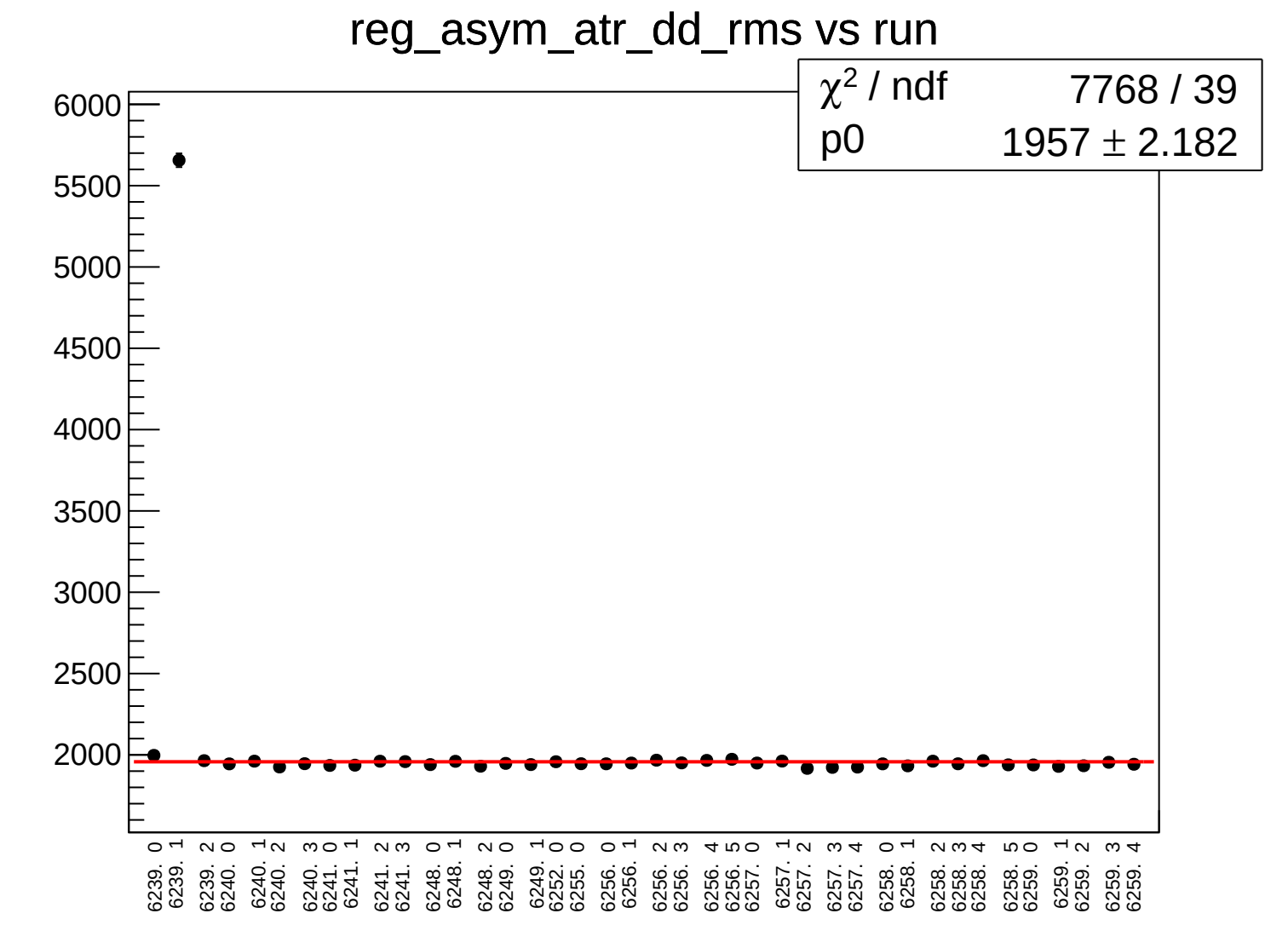

asym_atr_avg_mean vs run
×10^3
χ² / ndf 44.66 / 39
p0 7461 ± 8326
200
150
100
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 74.08
Std Dev 61.12
3
2
1
0
−1
−2

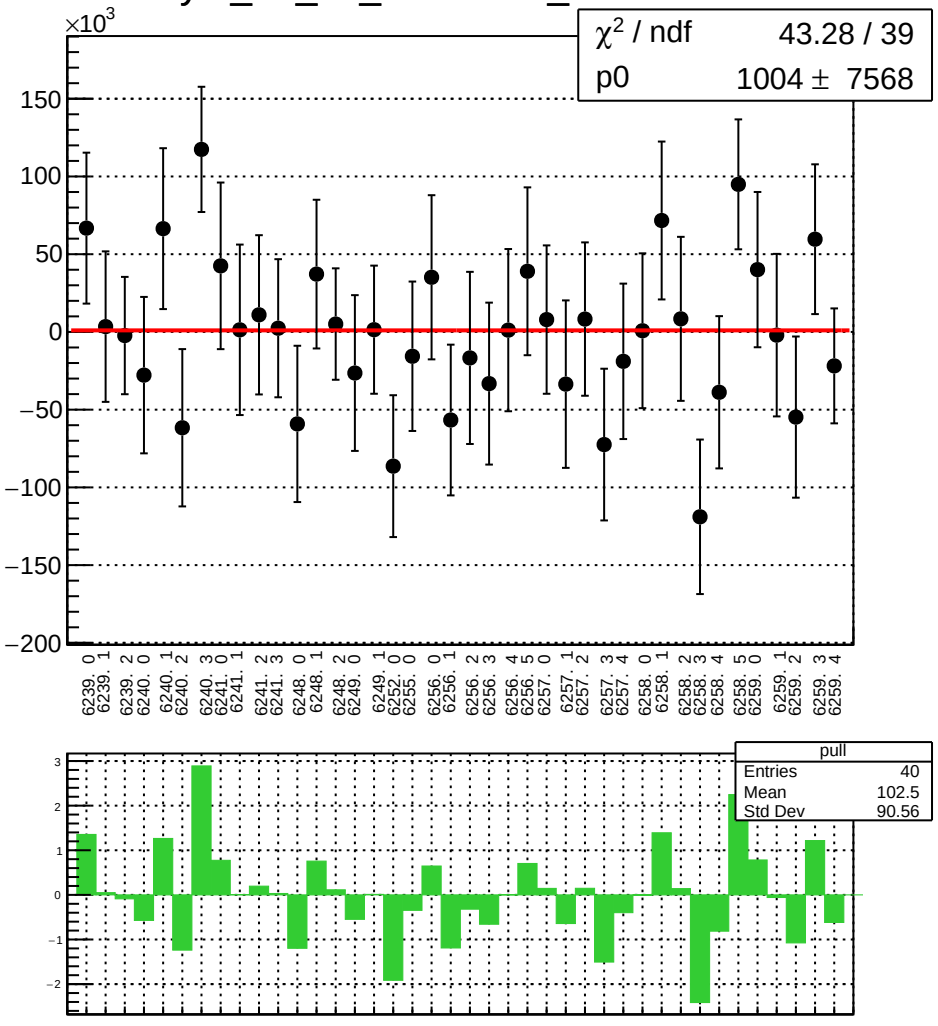

pull1D
Entries 40
Mean −0.02372
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

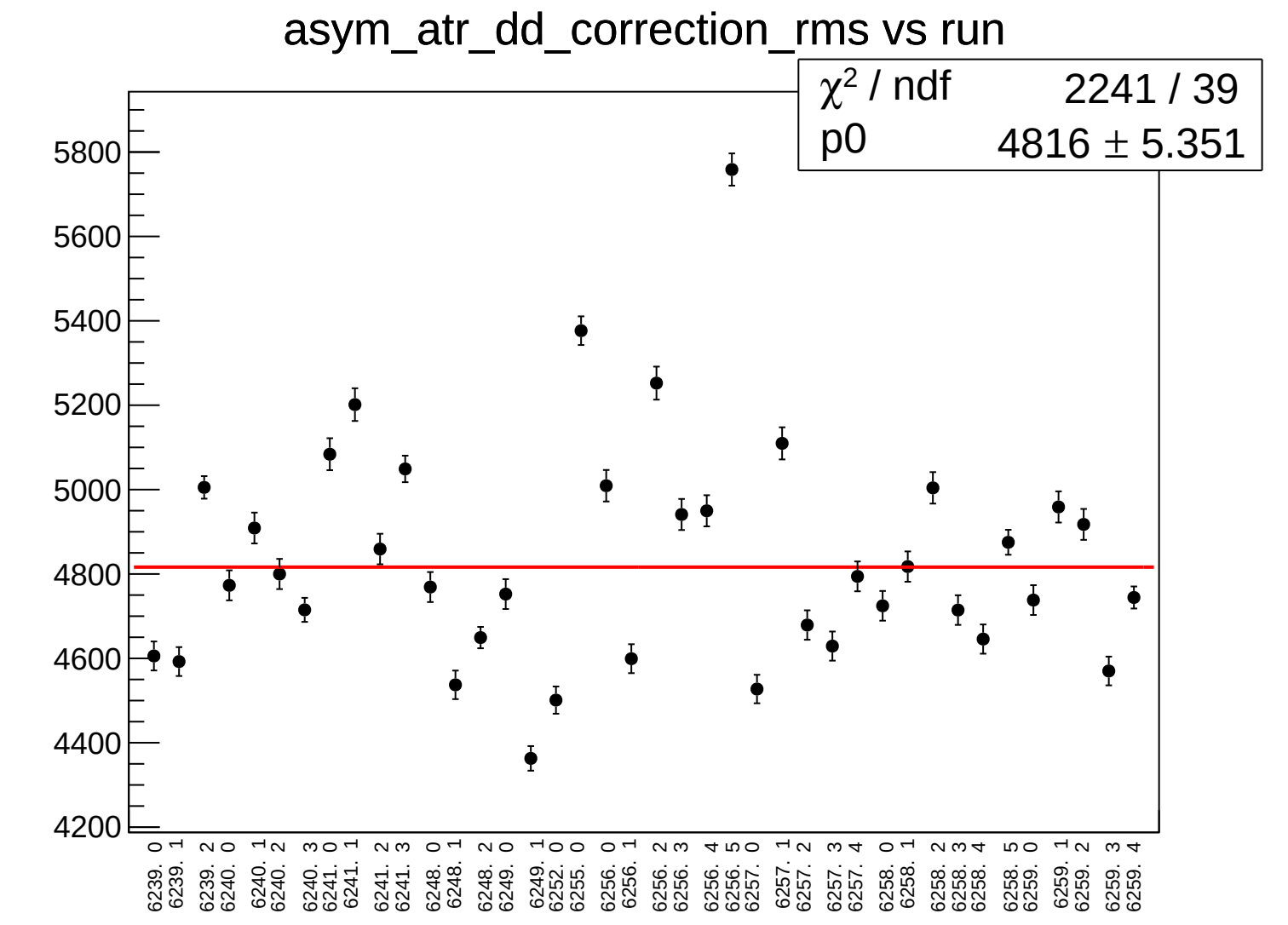

asym_atr_avg_rms vs run
$\chi^2$ / ndf 2830 / 39
p0 5297 ± 5.887
7500
7000
6500
6000
5500
5000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

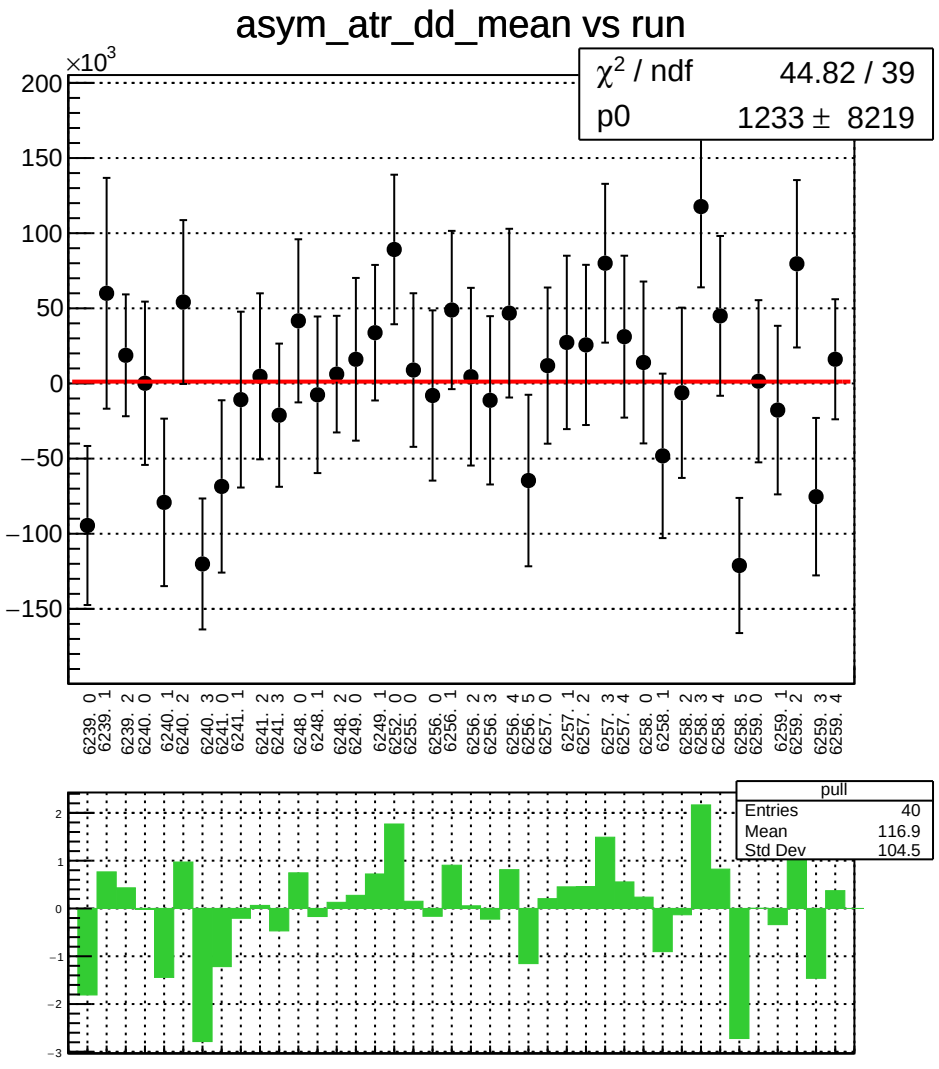

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 47.68 / 39
p0 1103 ± 3086
pull
Entries 40
Mean 104.8
Std Dev 89.48

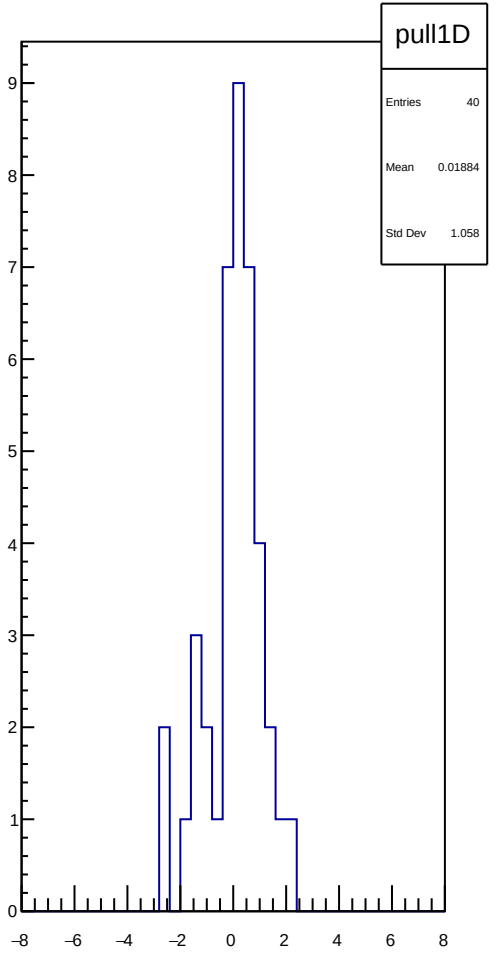

pull1D
Entries 40
Mean 0.02015
Std Dev 1.092

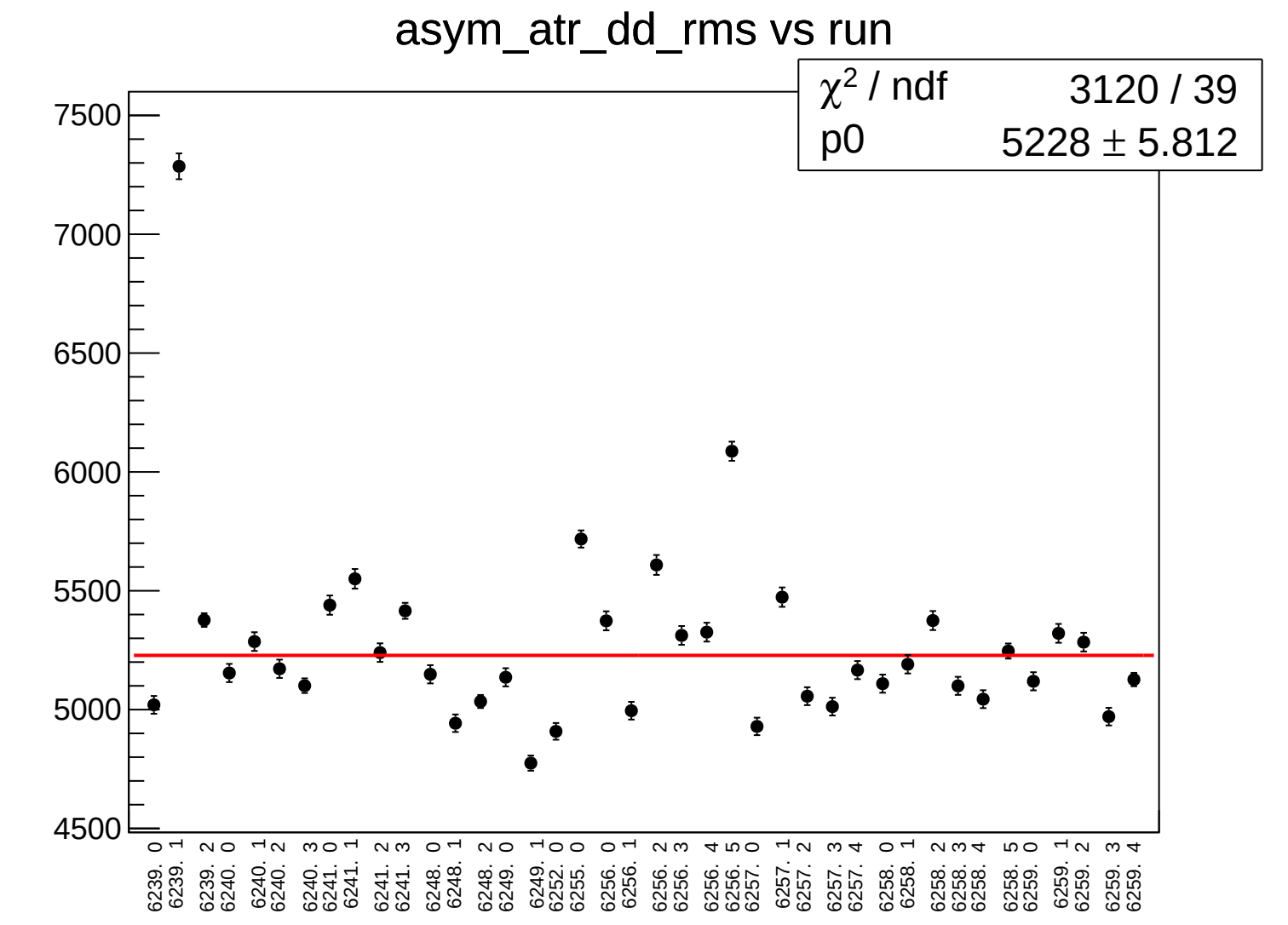

reg_asym_atr_dd_rms vs run
χ² / ndf 7768 / 39
p0 1957 ± 2.182
6000
5500
5000
4500
4000
3500
3000
2500
2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

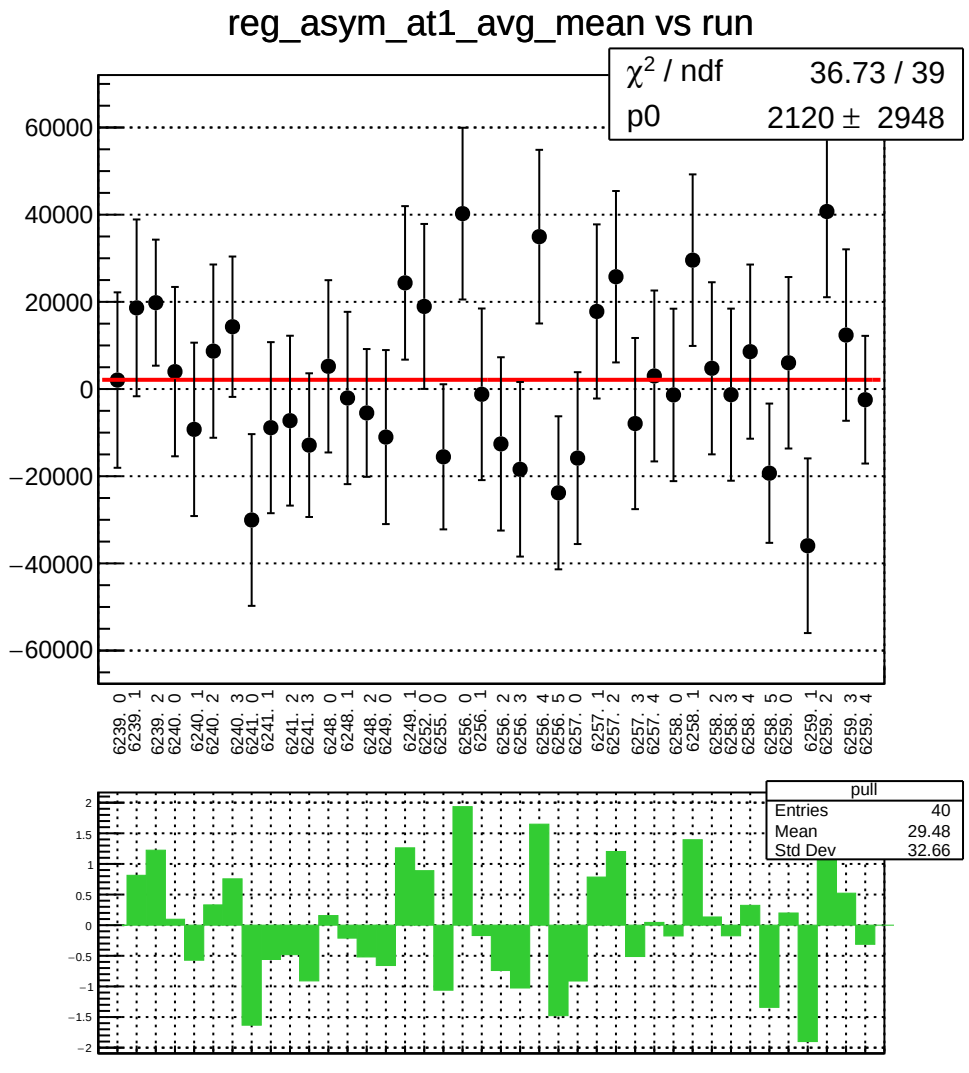

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 43.28 / 39
p0 1004 ± 7568
150
100
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 102.5
Std Dev 90.56
3
2
1
0
−1
−2
pull1D
Entries 40
Mean −0.01819
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

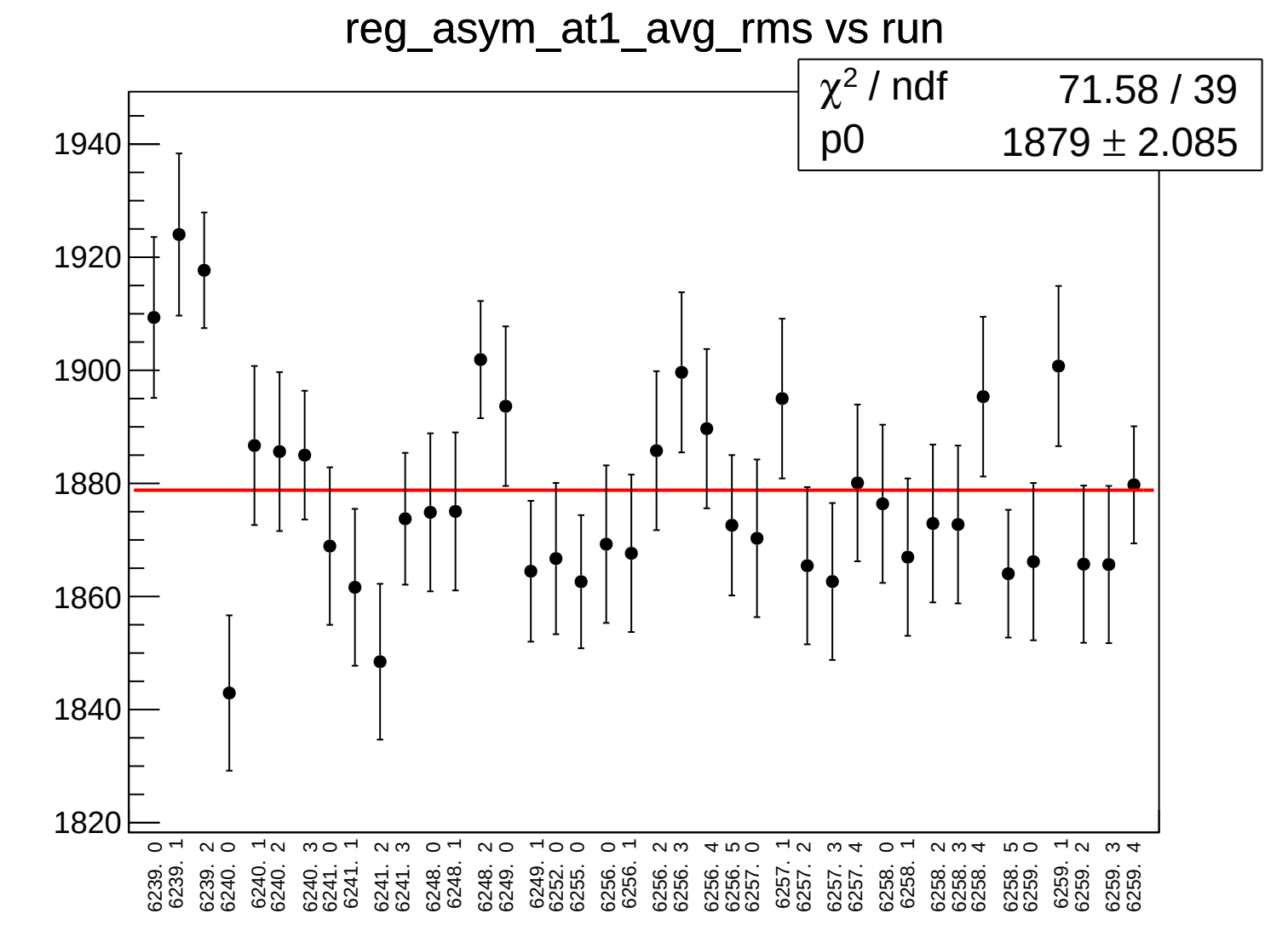

asym_atr_dd_correction_rms vs run
χ² / ndf 2241 / 39
p0 4816 ± 5.351
5800
5600
5400
5200
5000
4800
4600
4400
4200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

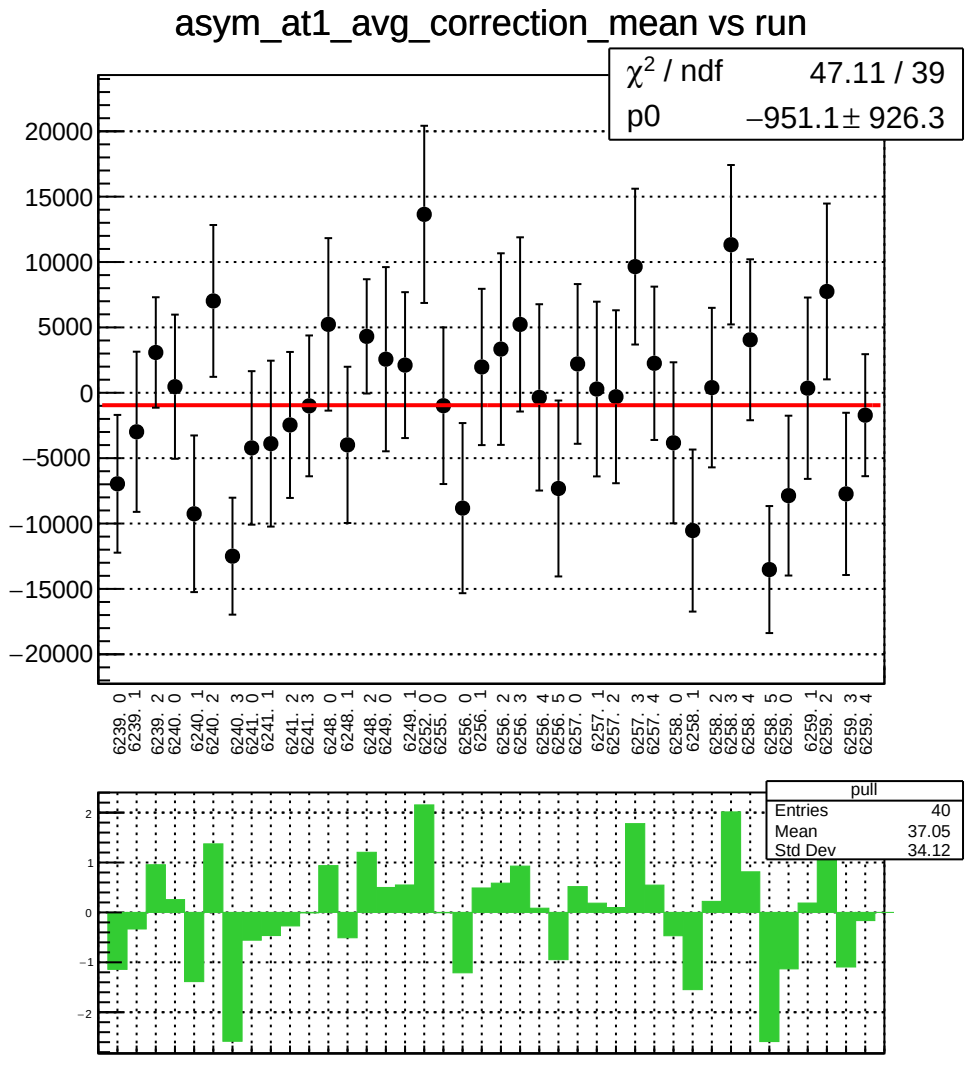

asym_atr_dd_mean vs run
×10^3
χ² / ndf 44.82 / 39
p0 1233 ± 8219
200
150
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 116.9
Std Dev 104.5
2
1
0
−1
−2
−3

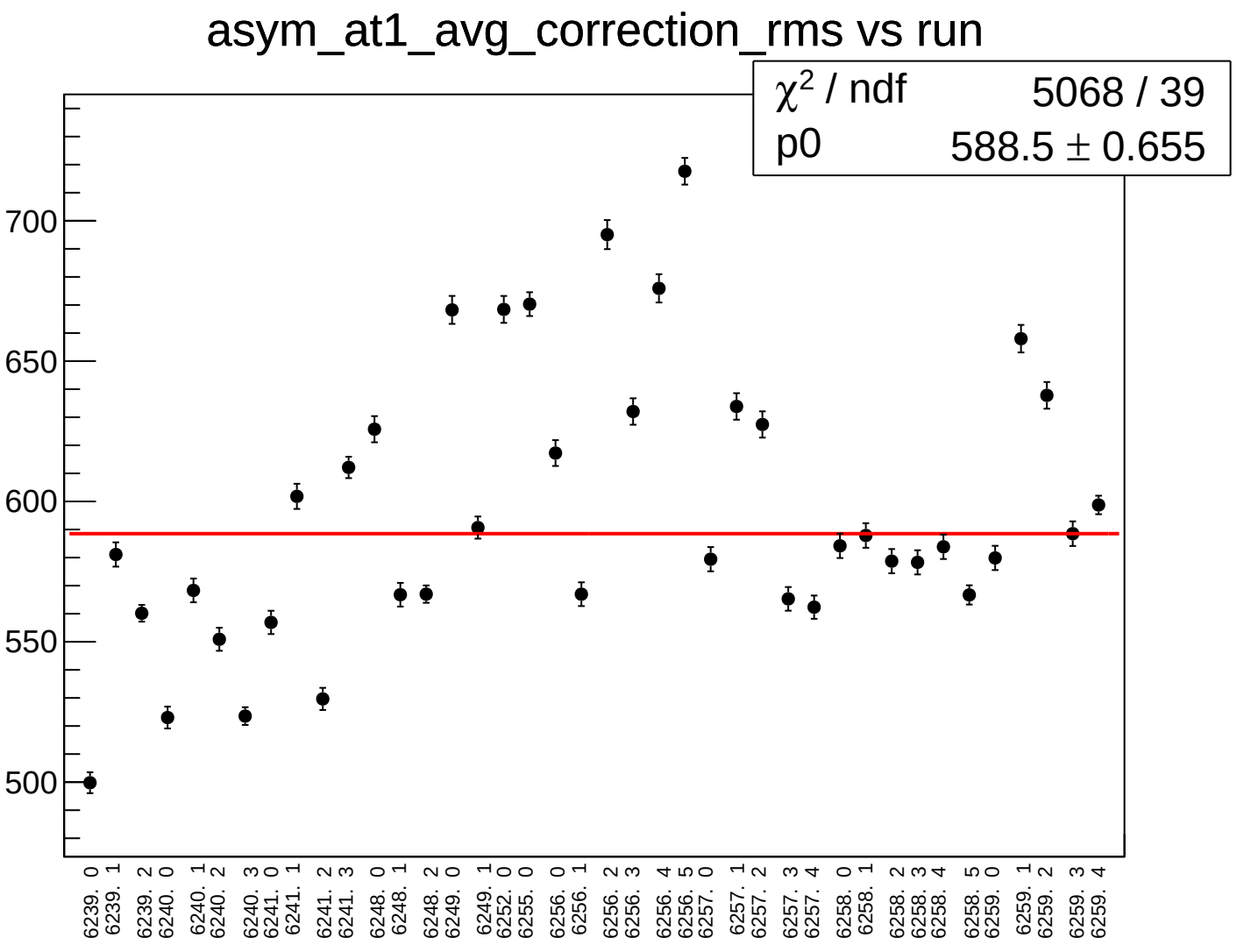

pull1D
Entries 40
Mean 0.01884
Std Dev 1.058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

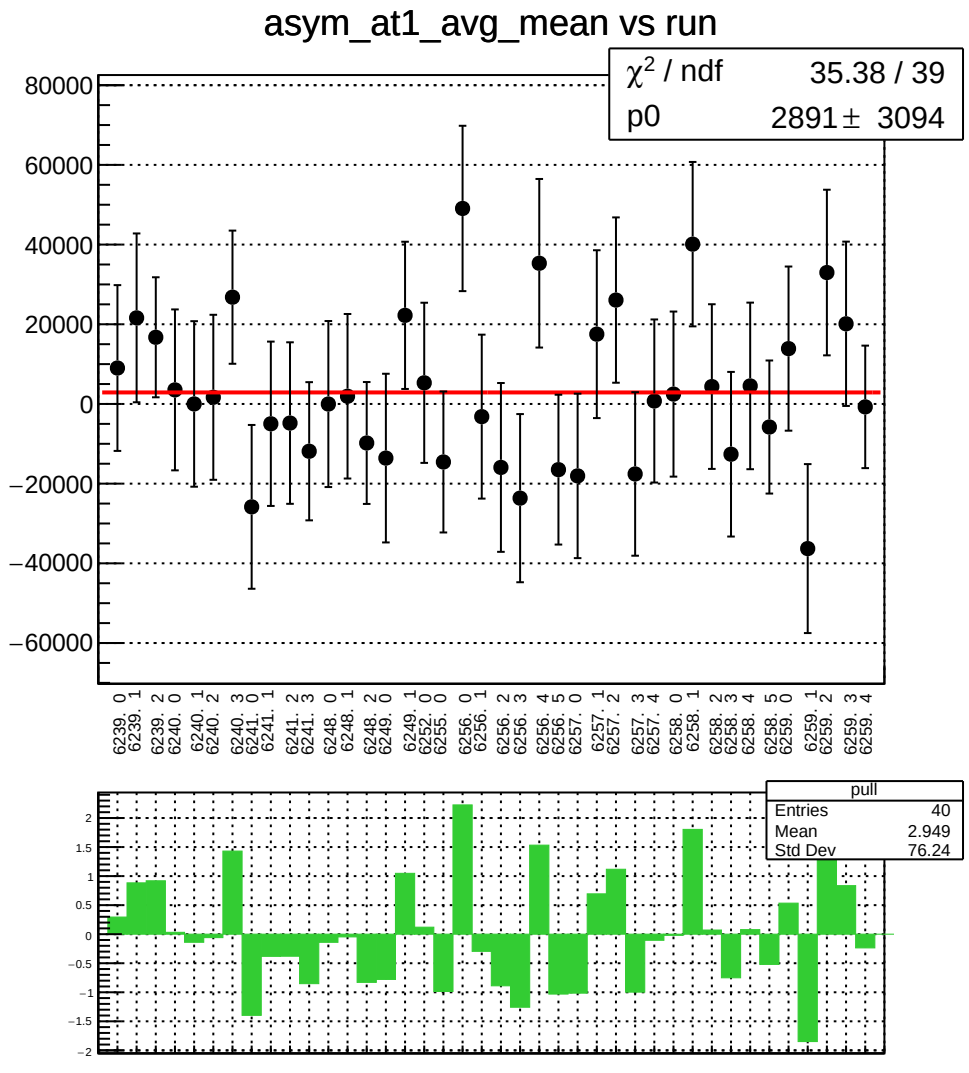

asym_atr_dd_rms vs run
$\chi^2$ / ndf 3120 / 39
p0 5228 ± 5.812
7500
7000
6500
6000
5500
5000
4500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

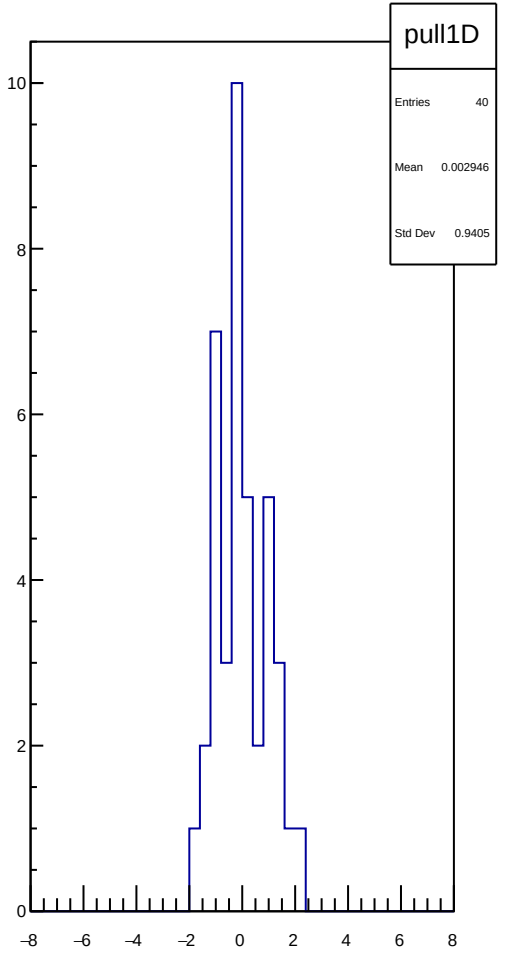

reg_asym_at1_avg_mean vs run
χ² / ndf 36.73 / 39
p0 2120 ± 2948
60000
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 29.48
Std Dev 32.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.008511
Std Dev 0.9582
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

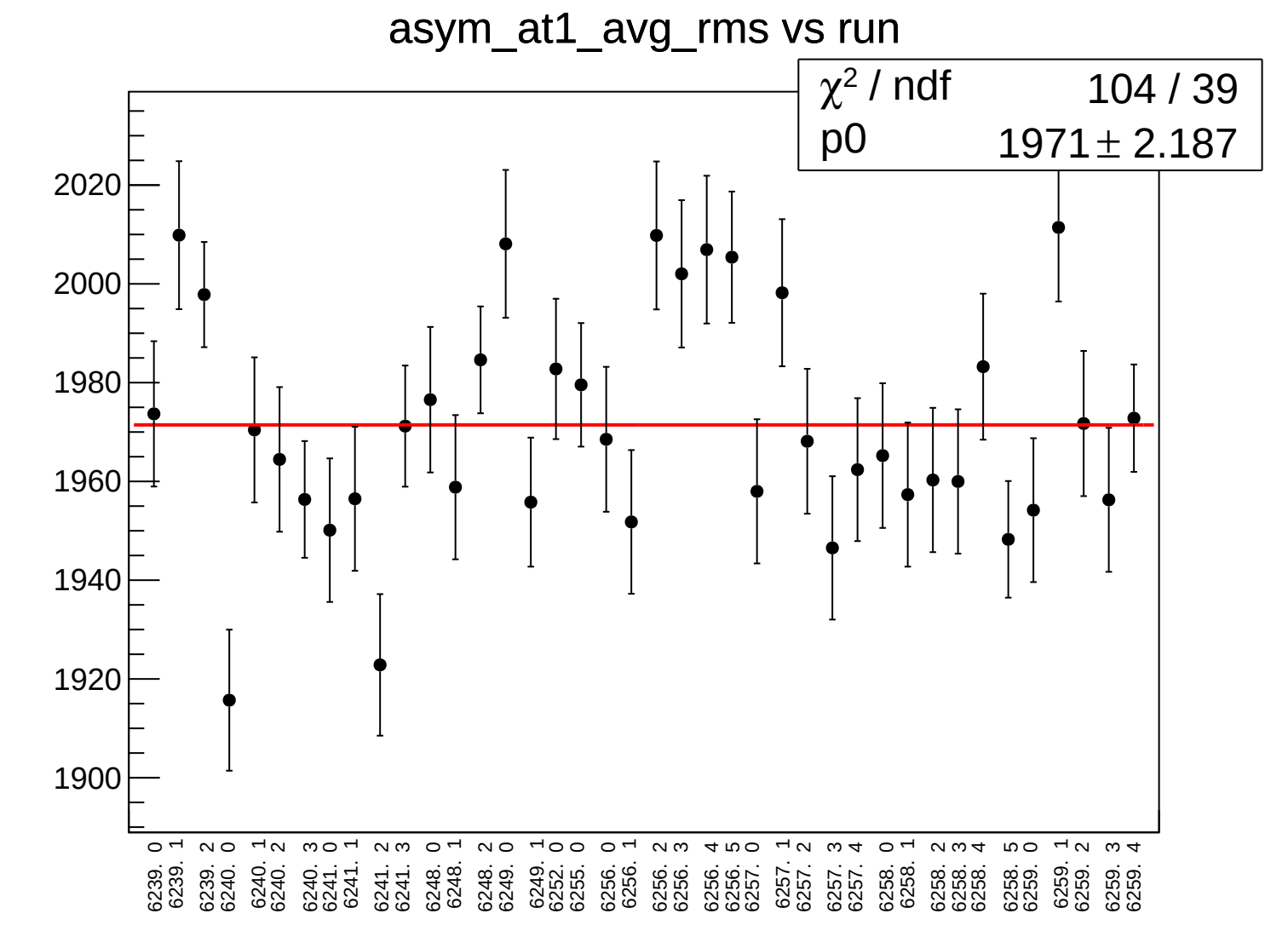

reg_asym_at1_avg_rms vs run
χ² / ndf 71.58 / 39
p0 1879 ± 2.085
1940
1920
1900
1880
1860
1840
1820
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

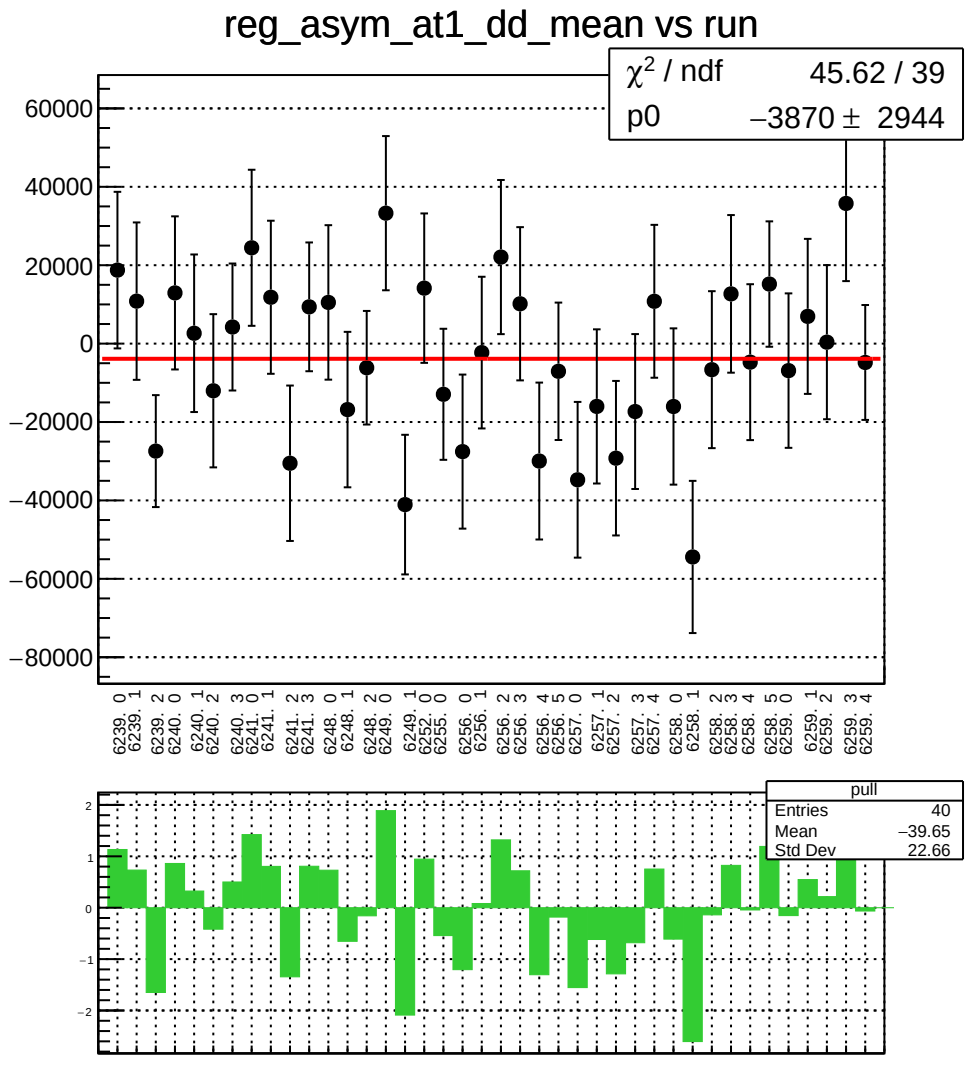

asym_at1_avg_correction_mean vs run
χ² / ndf 47.11 / 39
p0 −951.1± 926.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 37.05
Std Dev 34.12
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.03185
Std Dev 1.085
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

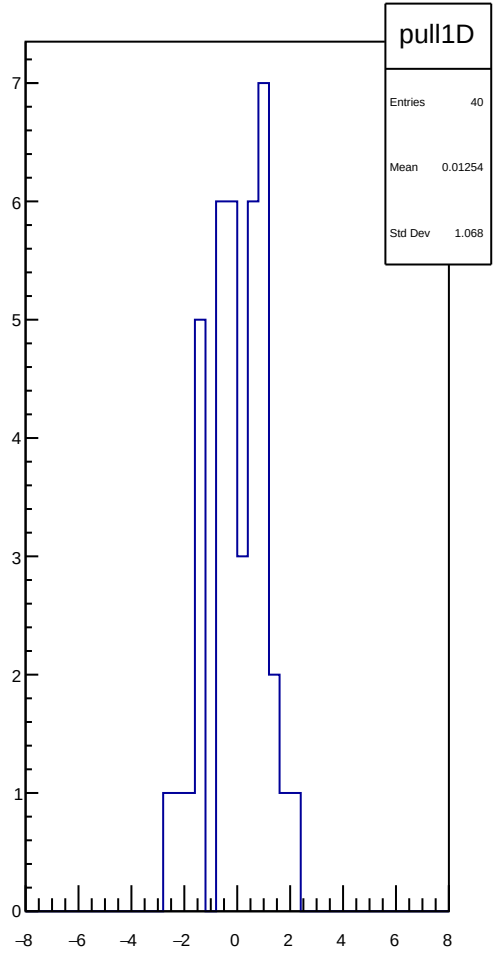

asym_at1_avg_correction_rms vs run
χ² / ndf 5068 / 39
p0 588.5 ± 0.655
700
650
600
550
500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

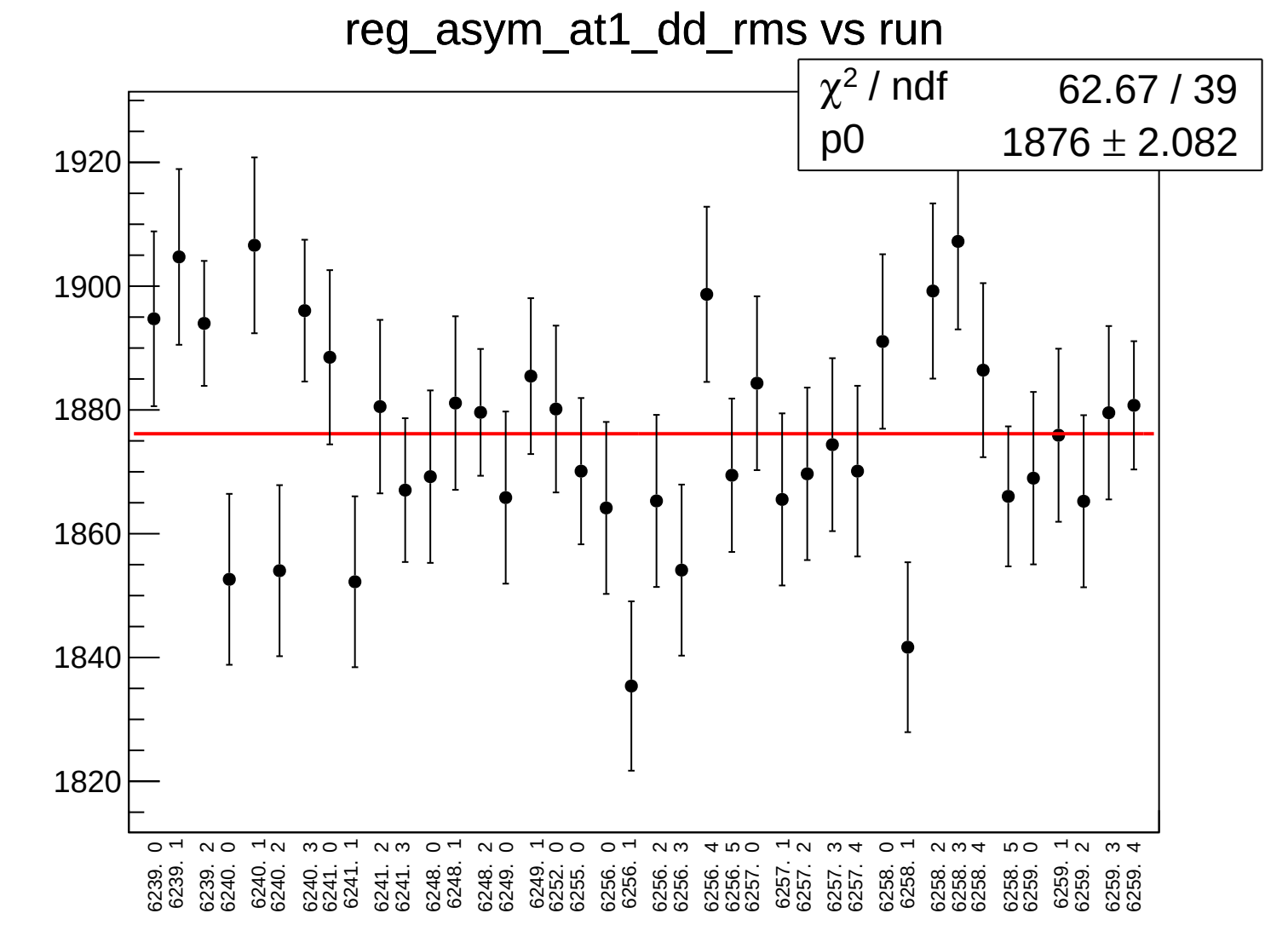

asym_at1_avg_mean vs run
χ² / ndf 35.38 / 39
p0 2891 ± 3094
80000
60000
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 2.949
Std Dev 76.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

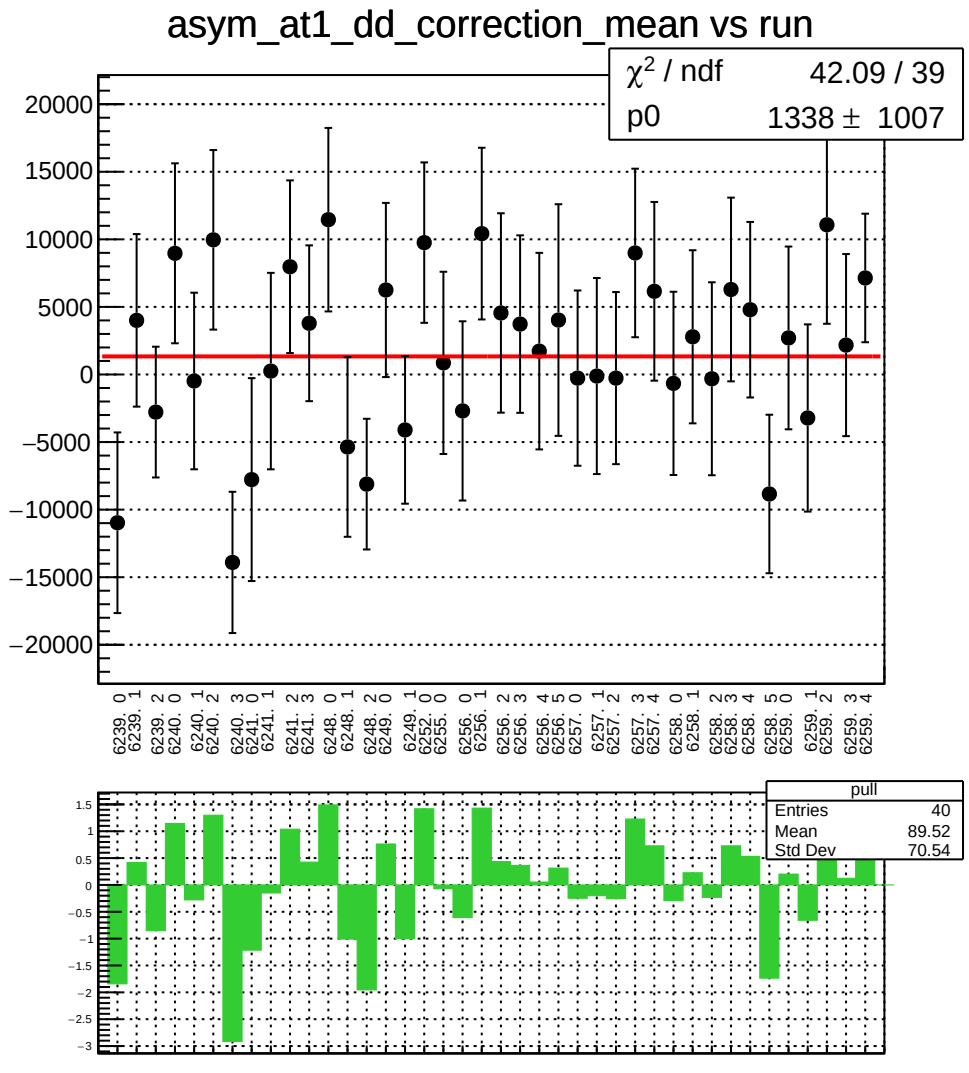

pull1D
Entries 40
Mean 0.002946
Std Dev 0.9405
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

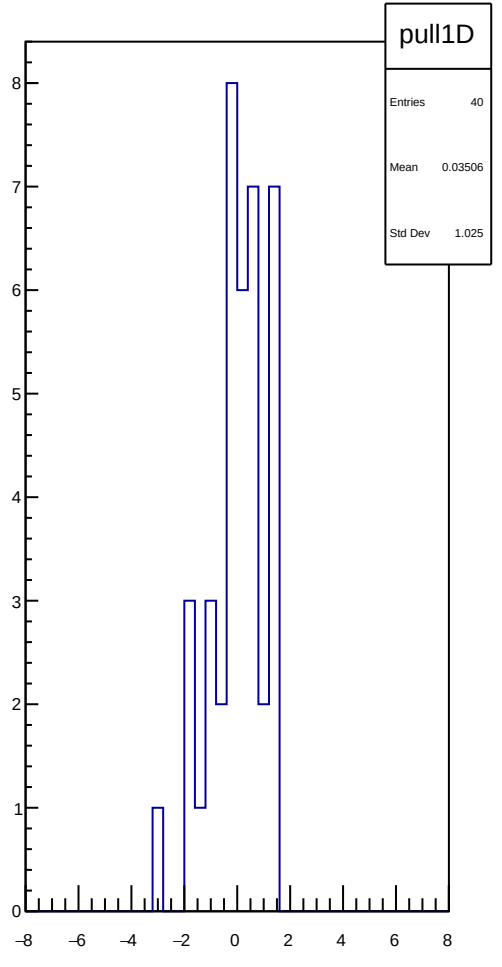

asym_at1_avg_rms vs run
χ² / ndf 104 / 39
p0 1971 ± 2.187
2020
2000
1980
1960
1940
1920
1900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

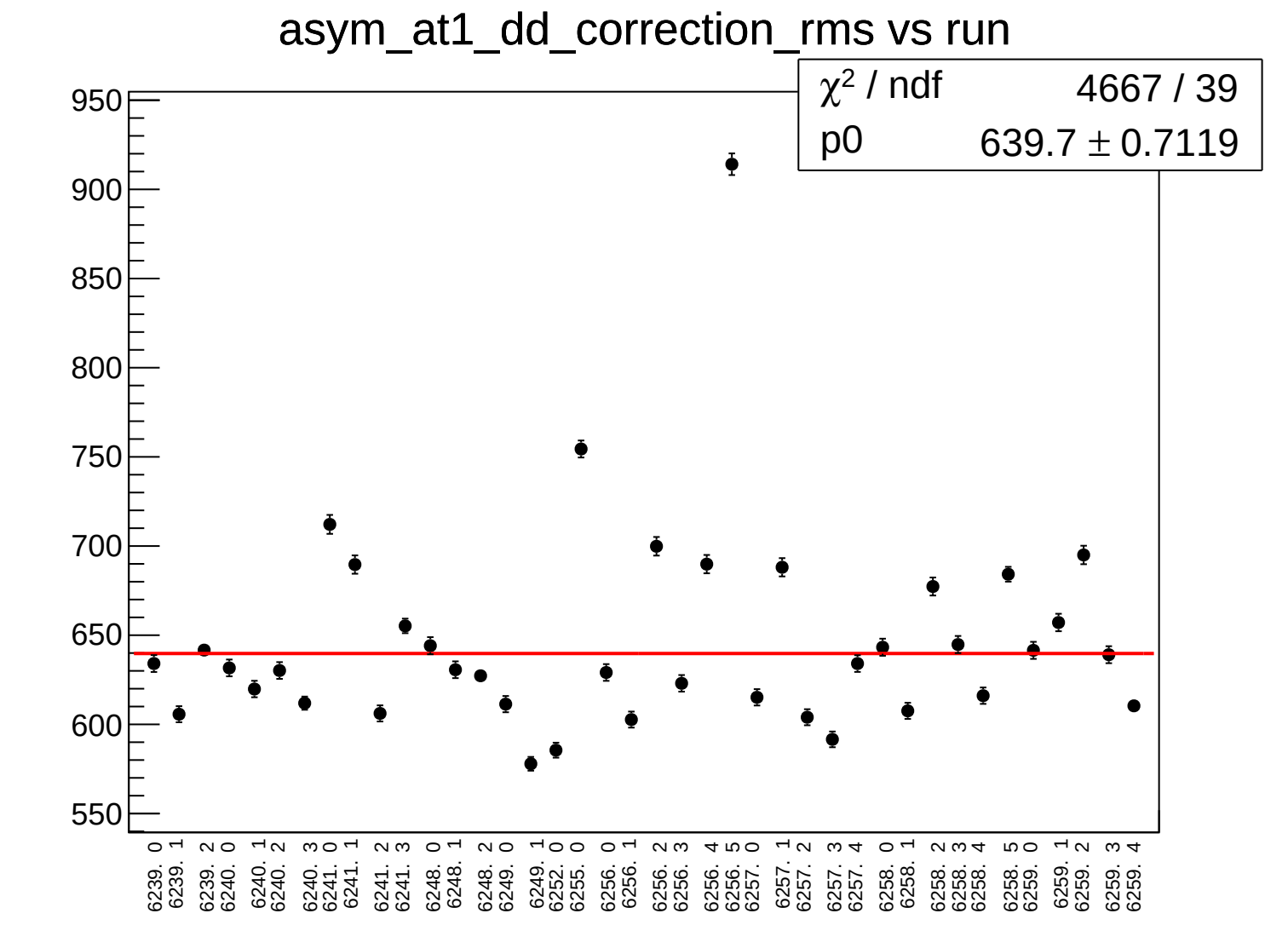

reg_asym_at1_dd_mean vs run
χ² / ndf 45.62 / 39
p0 −3870 ± 2944
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −39.65
Std Dev 22.66
2
1
0
−1
−2

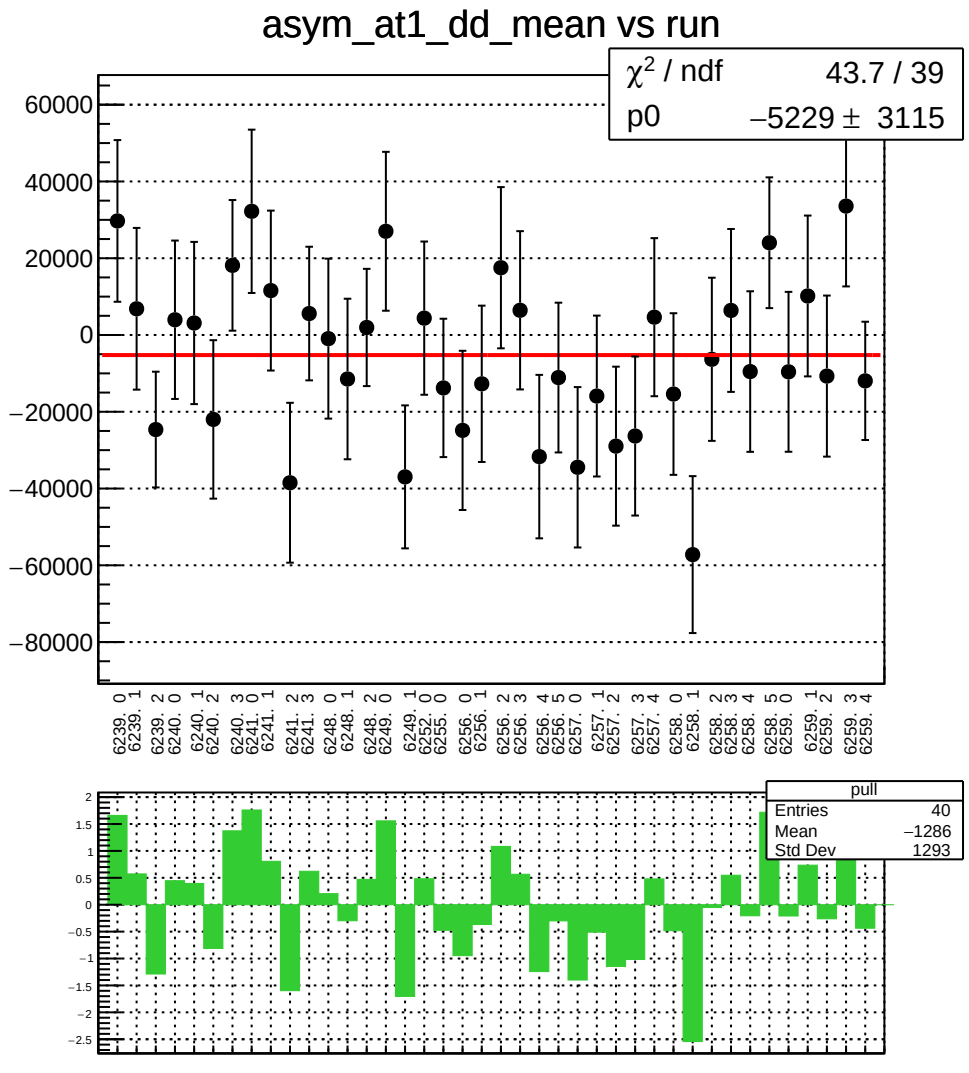

pull1D
Entries 40
Mean 0.01254
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

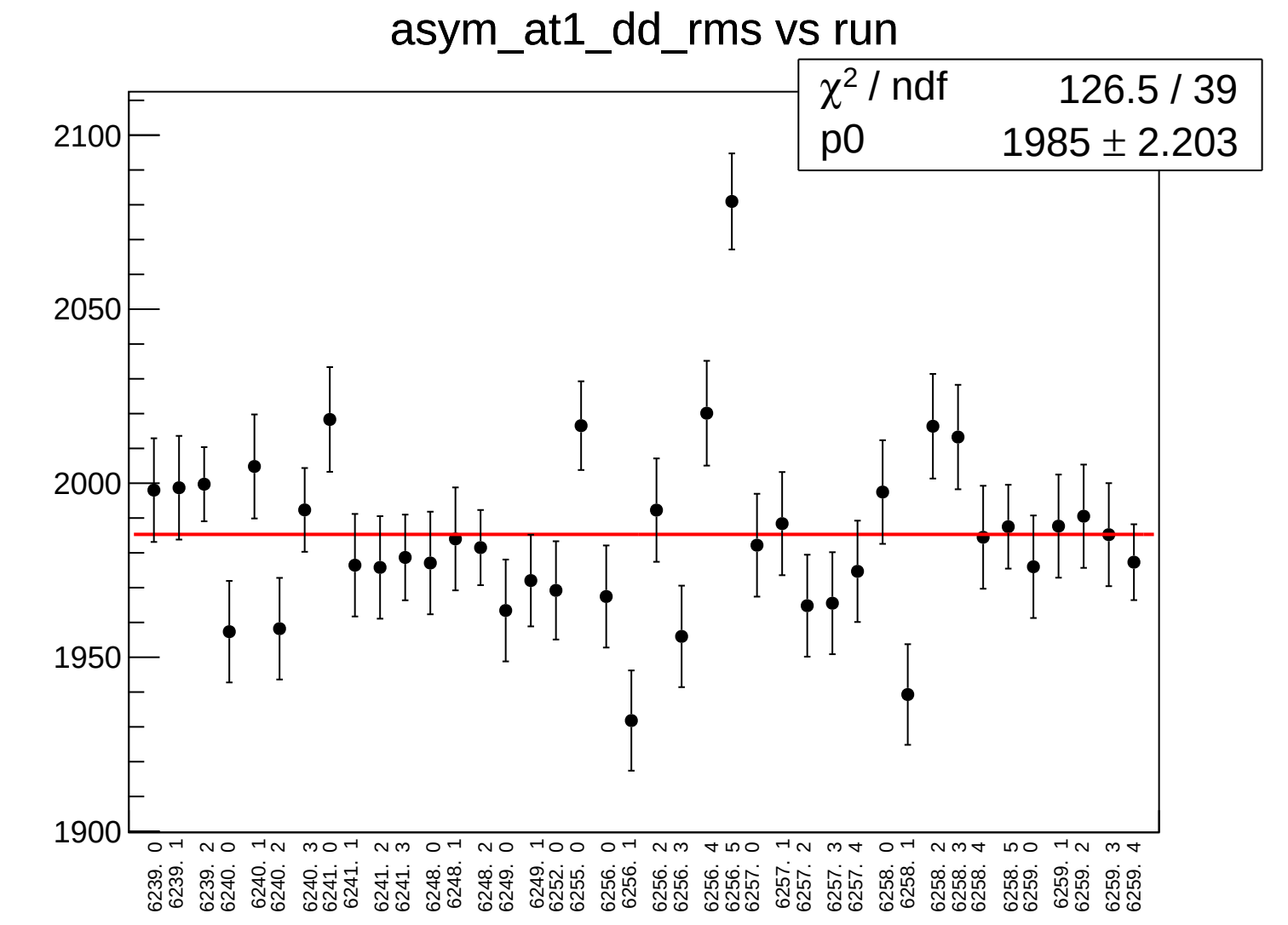

reg_asym_at1_dd_rms vs run
χ² / ndf 62.67 / 39
p0 1876 ± 2.082
1920
1900
1880
1860
1840
1820
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

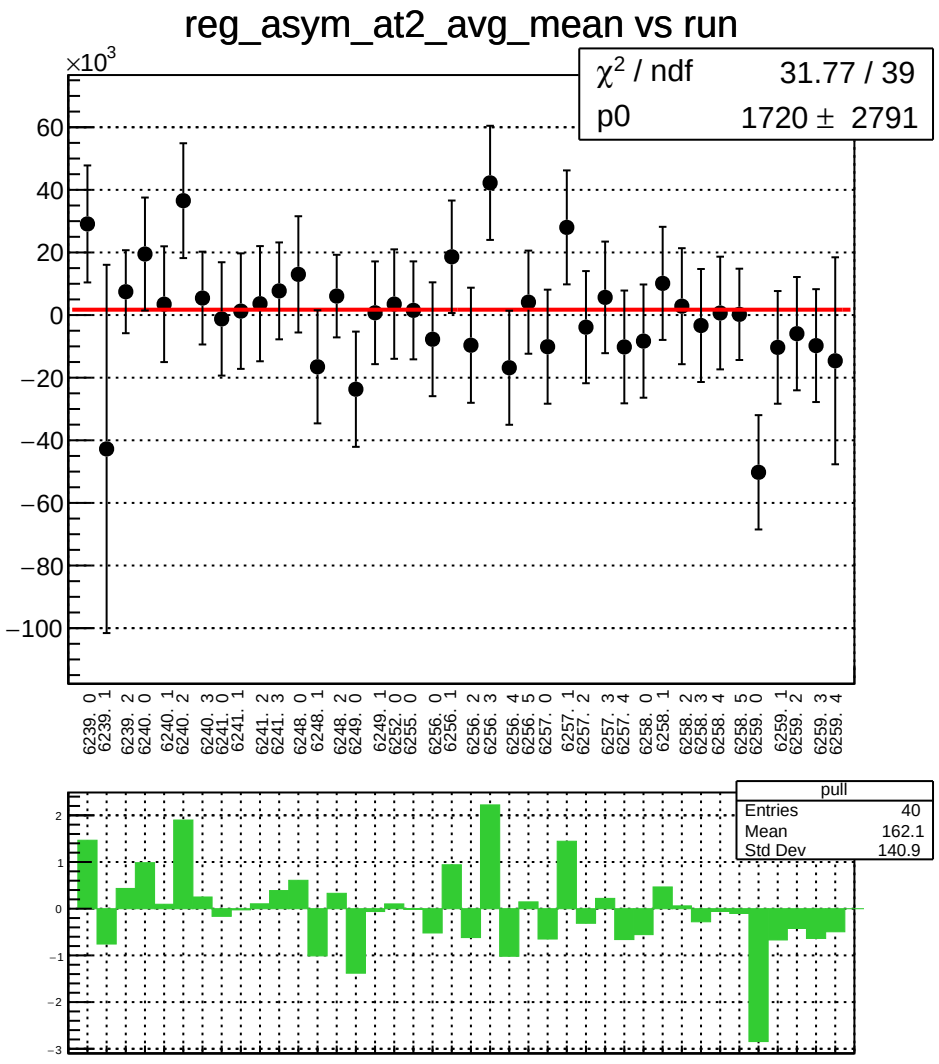

asym_at1_dd_correction_mean vs run
χ² / ndf 42.09 / 39
p0 1338 ± 1007
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 89.52
Std Dev 70.54
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

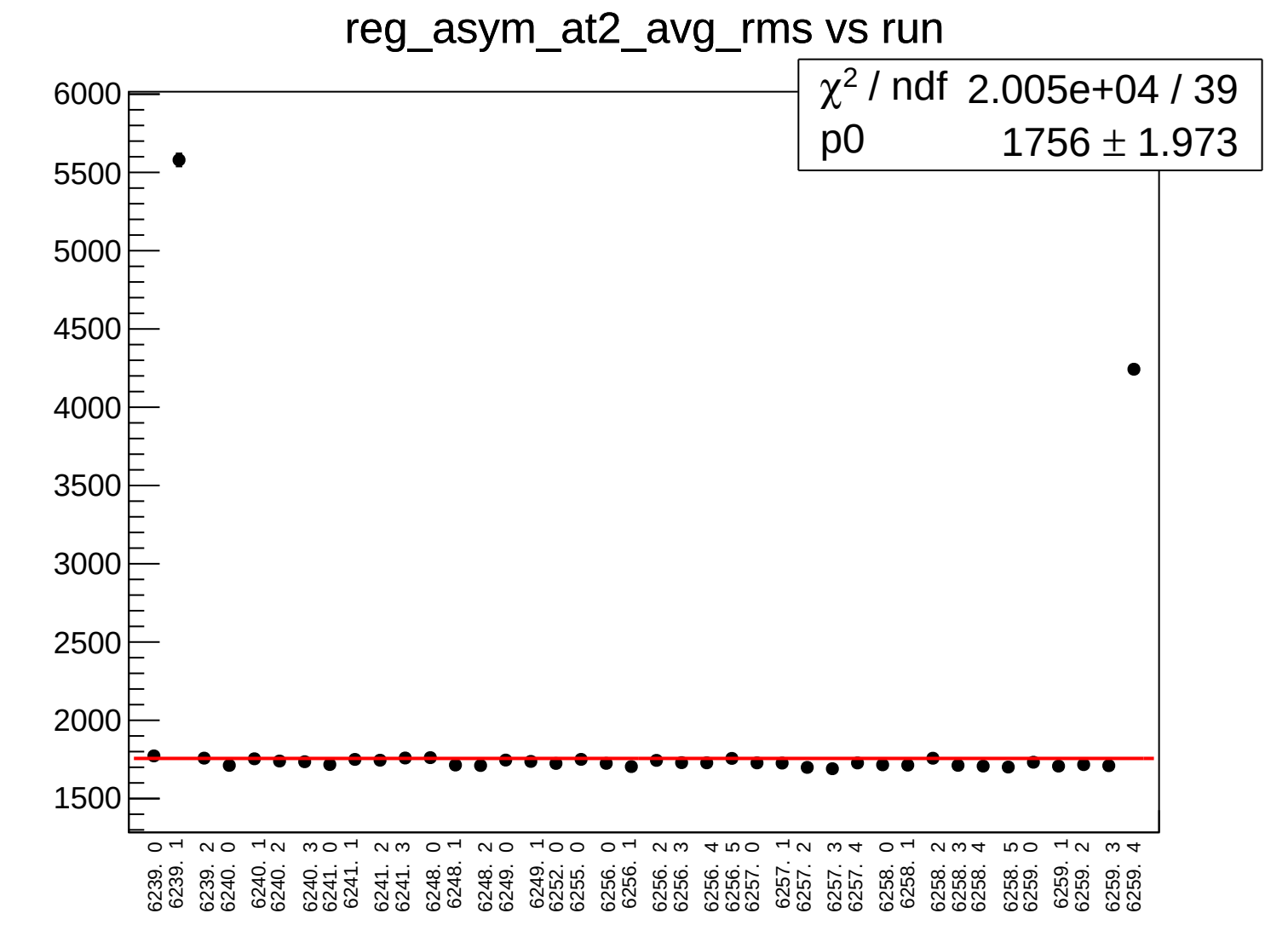

pull1D
Entries 40
Mean 0.03506
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

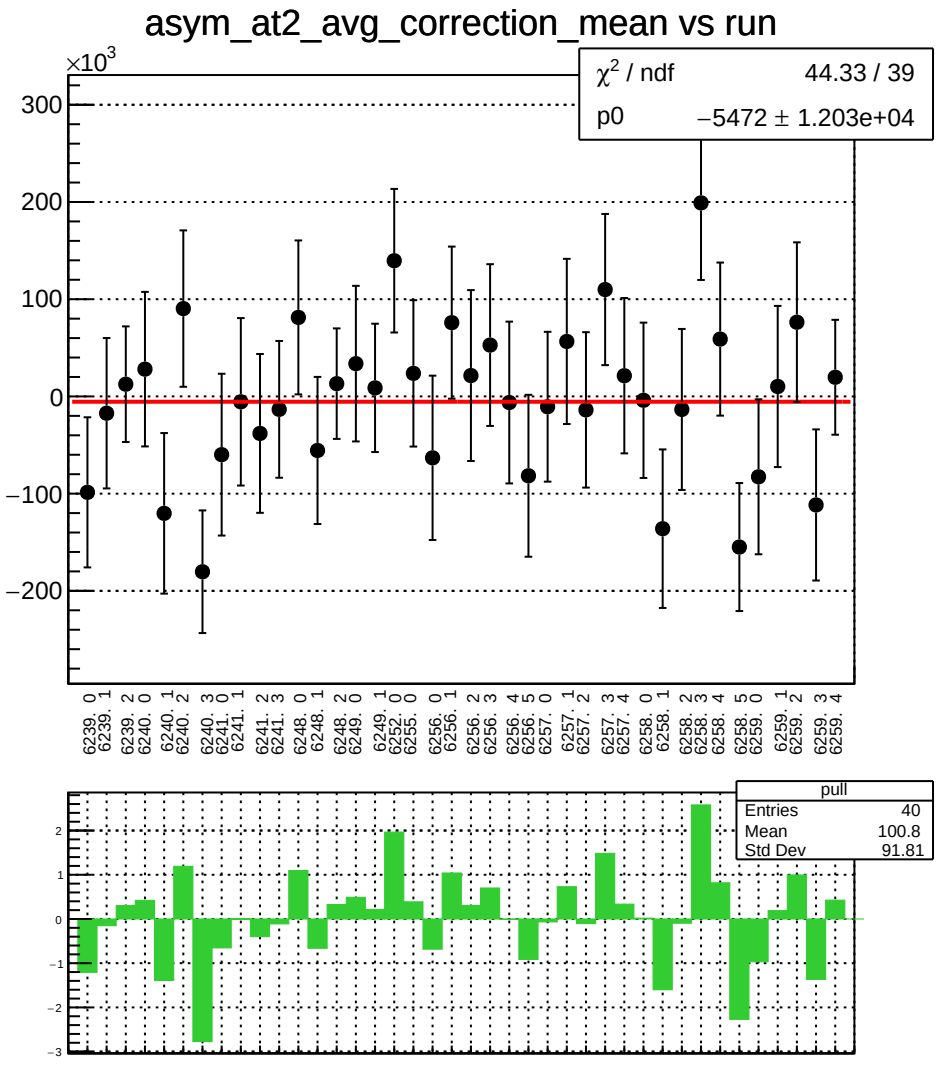

asym_at1_dd_correction_rms vs run
χ² / ndf 4667 / 39
p0 639.7 ± 0.7119
950
900
850
800
750
700
650
600
550
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

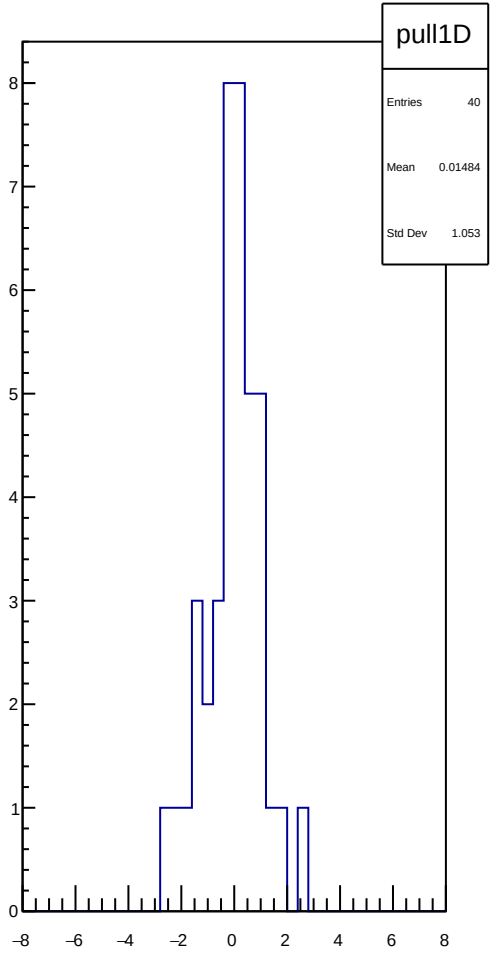

asym_at1_dd_mean vs run
χ² / ndf 43.7 / 39
p0 −5229 ± 3115
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −1286
Std Dev 1293
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.001131
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

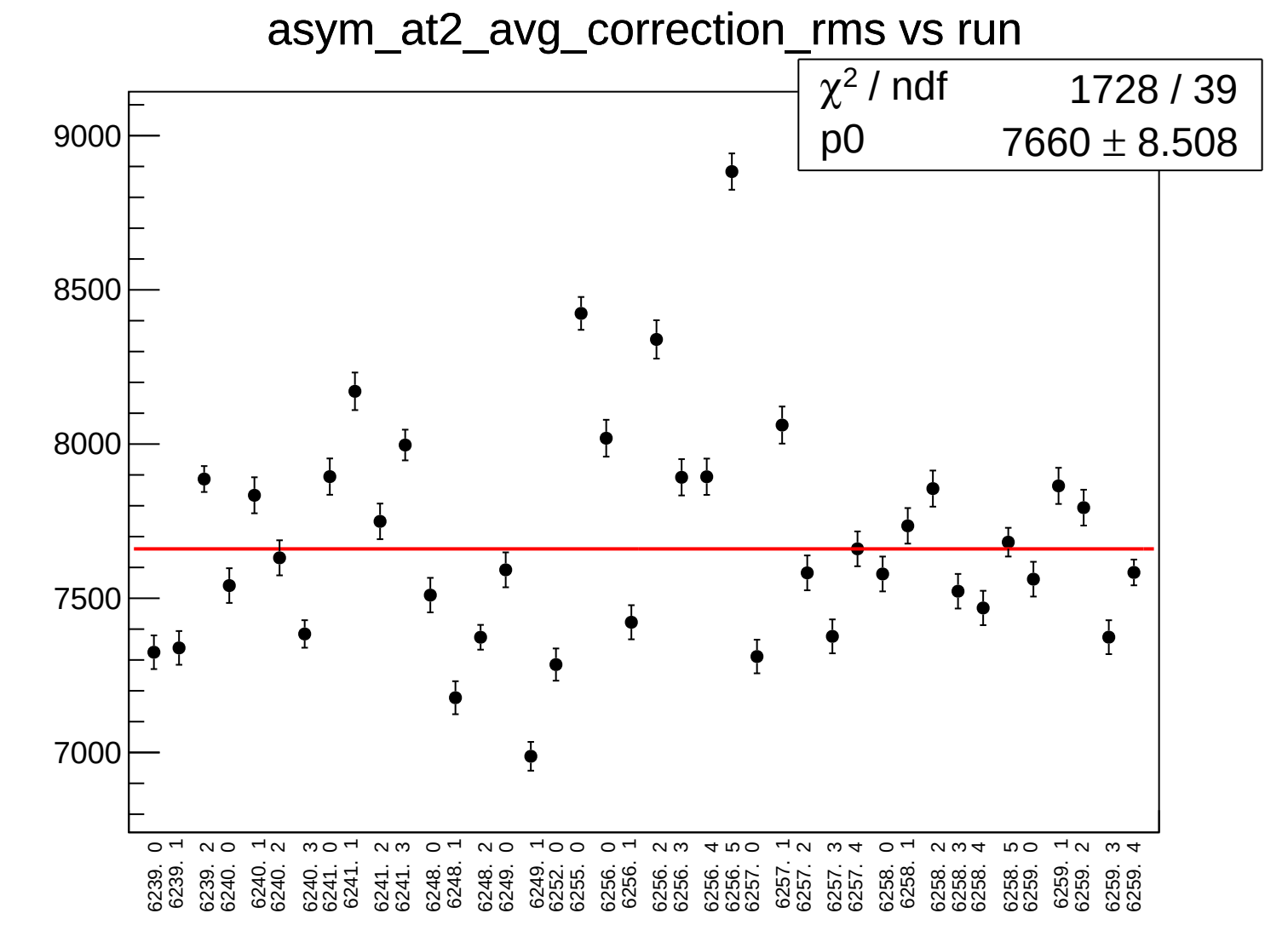

asym_at1_dd_rms vs run
χ² / ndf 126.5 / 39
p0 1985 ± 2.203
2100
2050
2000
1950
1900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

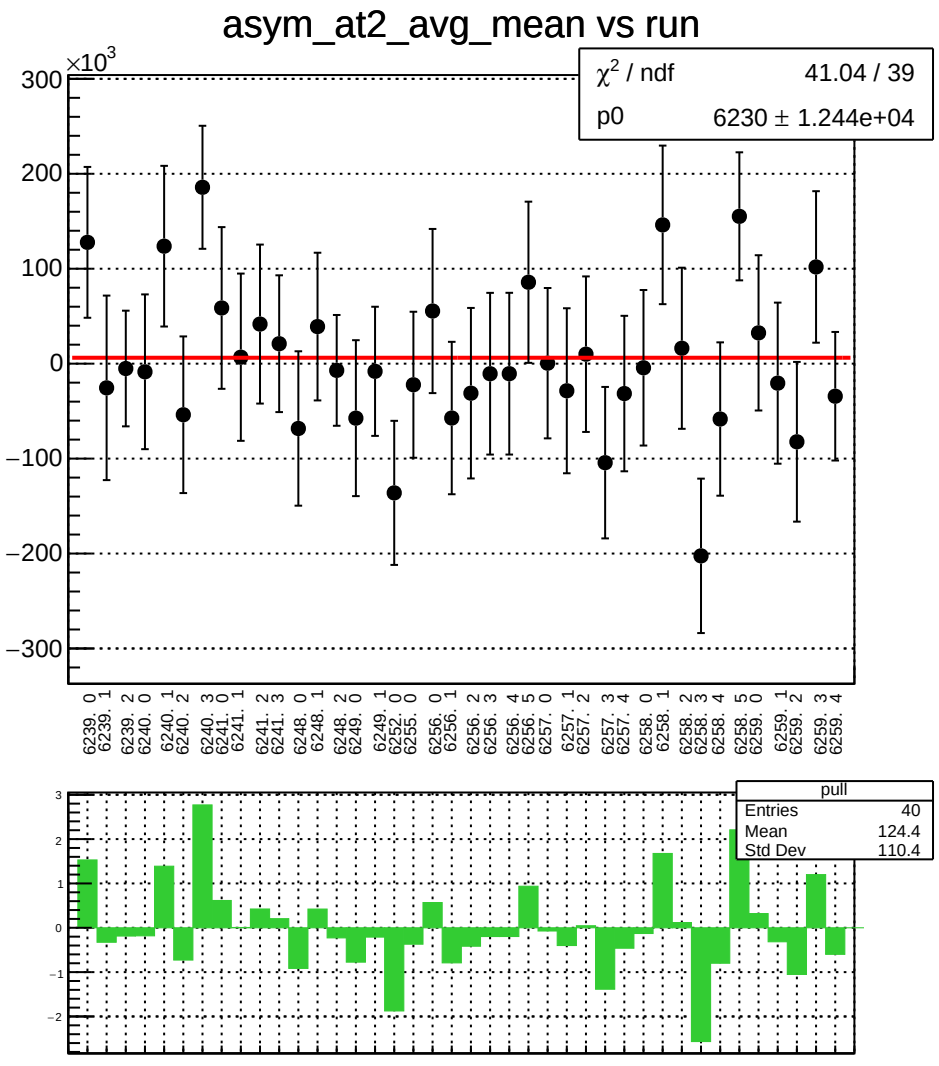

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 31.77 / 39
p0 1720 ± 2791
60
40
20
0
−20
−40
−60
−80
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 162.1
Std Dev 140.9
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean −0.0272
Std Dev 0.8908
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

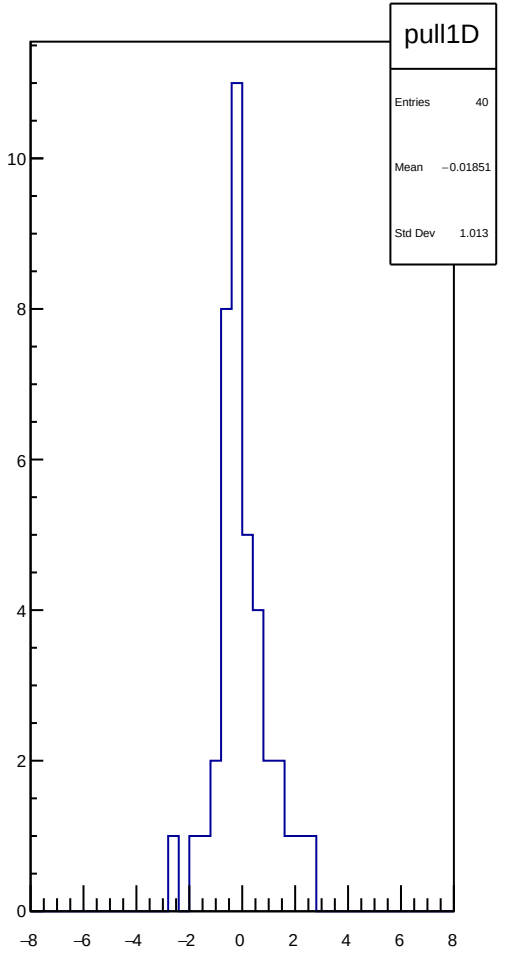

reg_asym_at2_avg_rms vs run
χ² / ndf 2.005e+04 / 39
p0 1756 ± 1.973
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

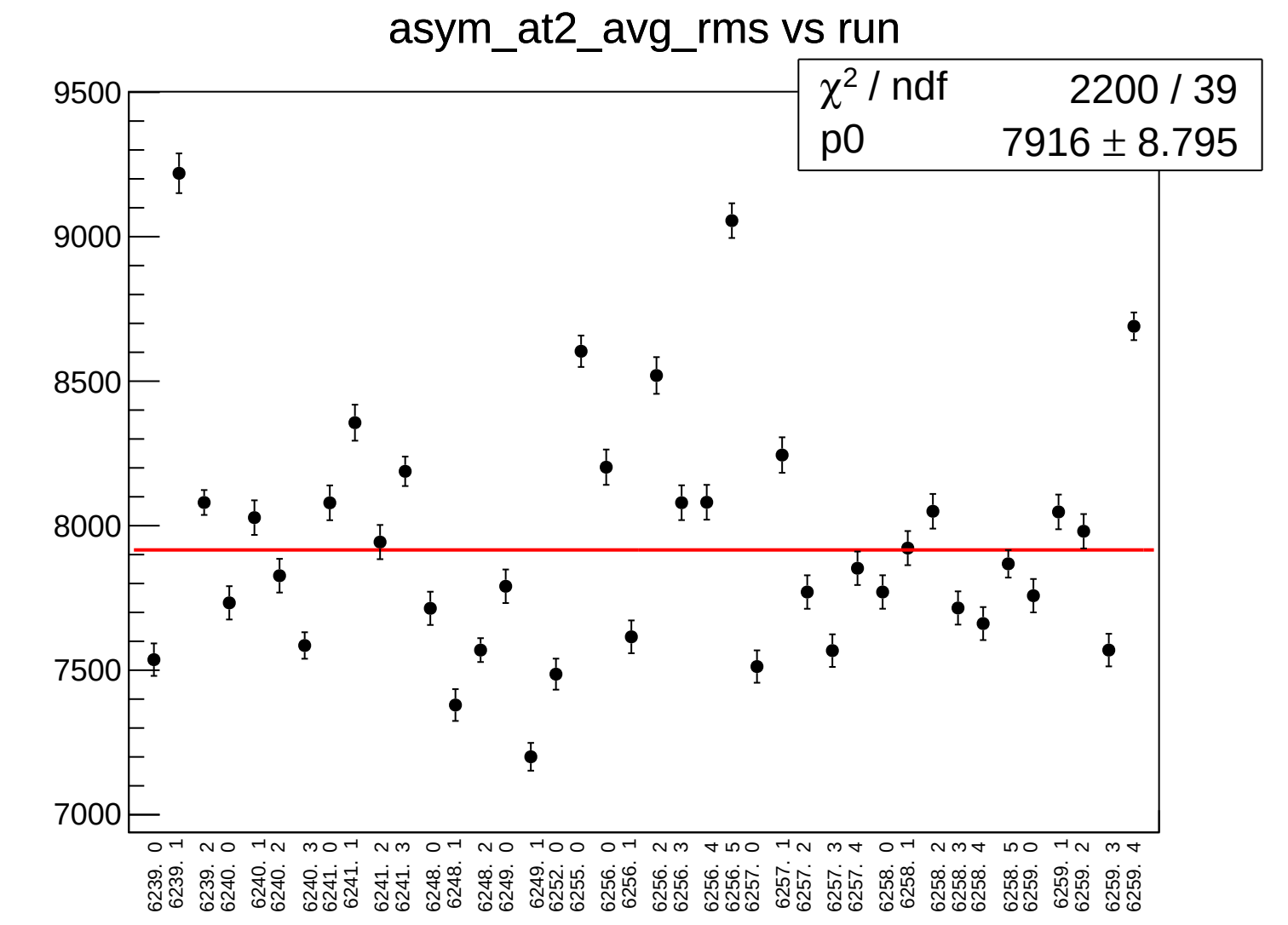

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 44.33 / 39
p0 −5472 ± 1.203e+04
300
200
100
0
−100
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 100.8
Std Dev 91.81
2
1
0
−1
−2
−3

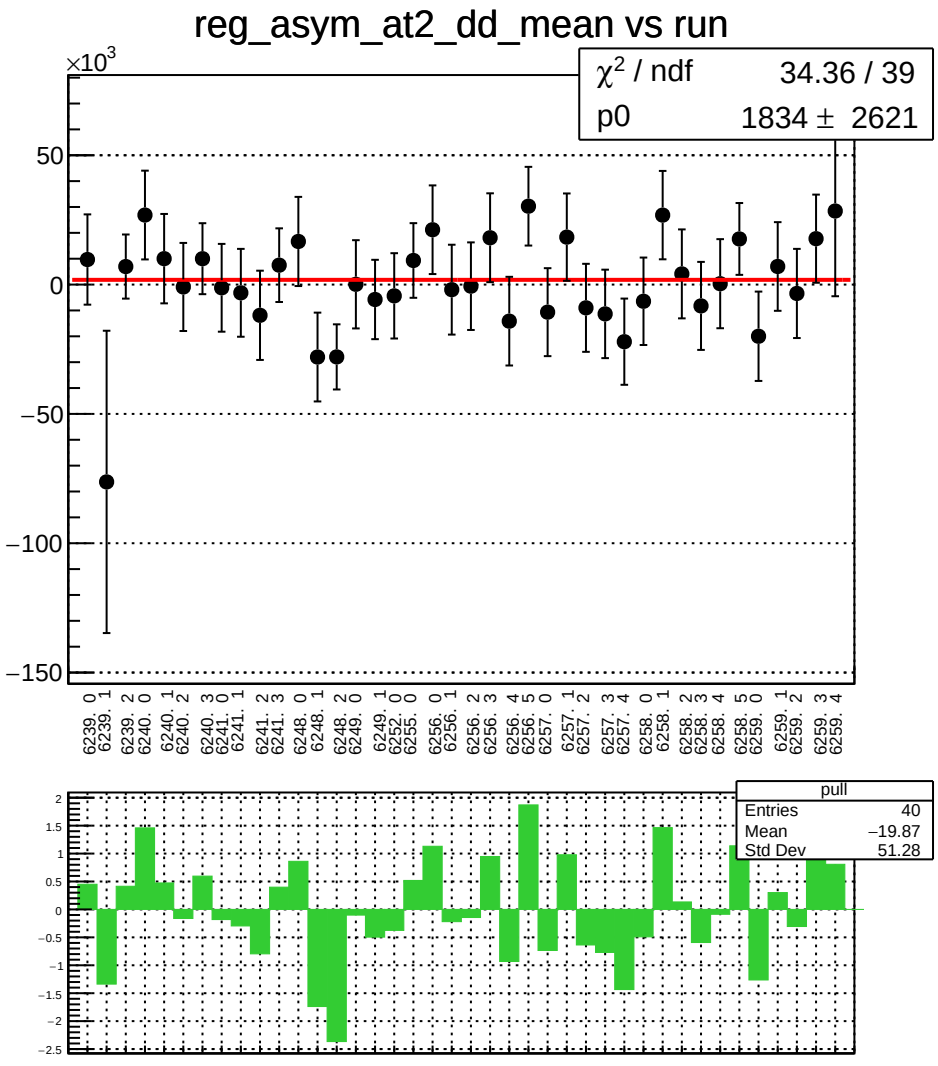

pull1D
Entries 40
Mean 0.01484
Std Dev 1.053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

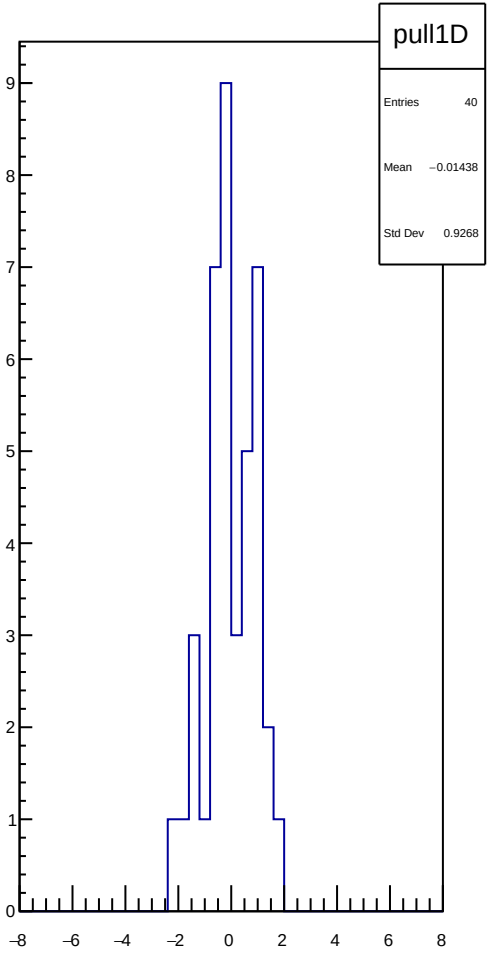

asym_at2_avg_correction_rms vs run
χ² / ndf 1728 / 39
p0 7660 ± 8.508
9000
8500
8000
7500
7000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

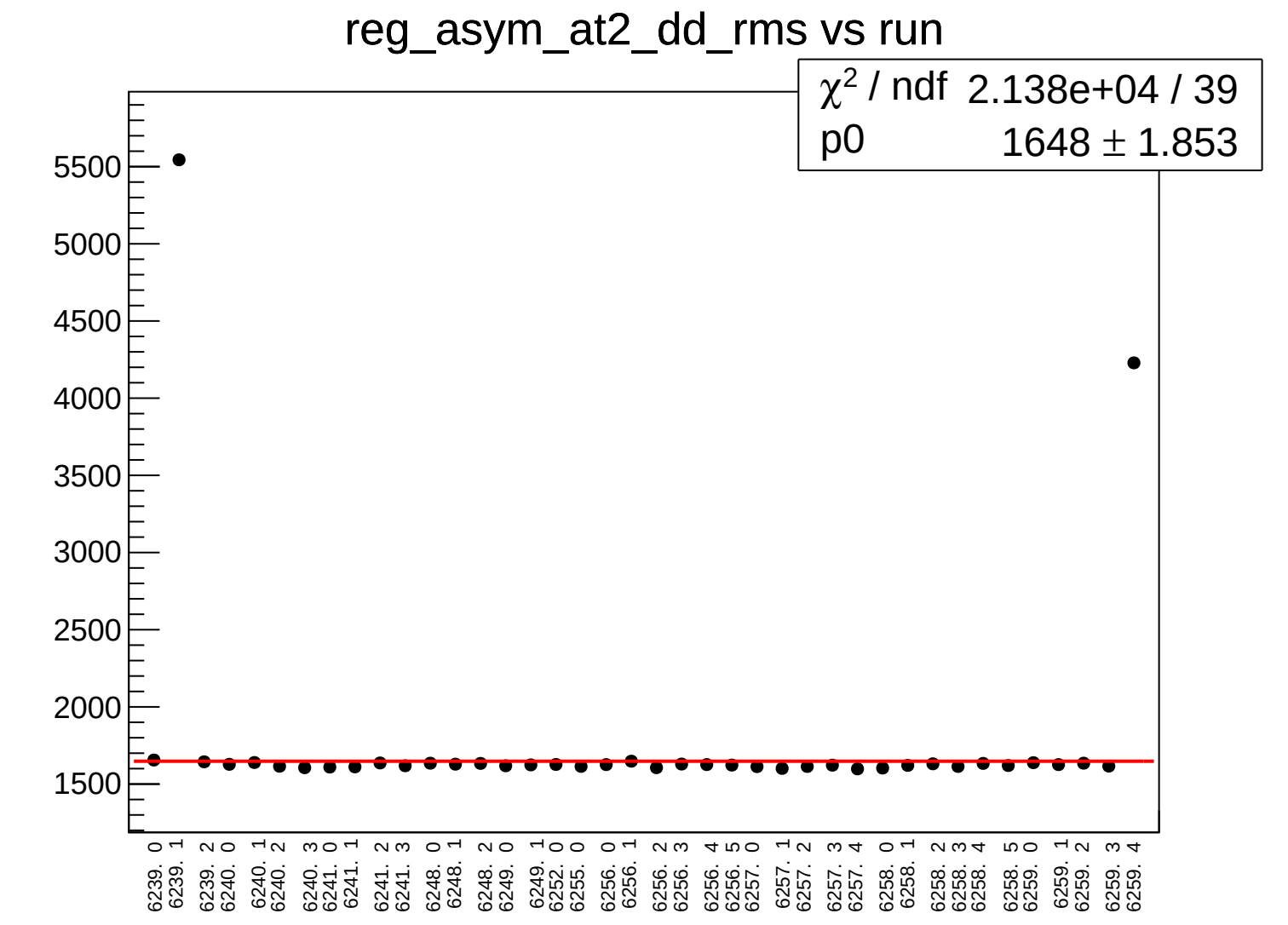

asym_at2_avg_mean vs run
×10^3
χ² / ndf 41.04 / 39
p0 6230 ± 1.244e+04
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 124.4
Std Dev 110.4
3
2
1
0
−1
−2

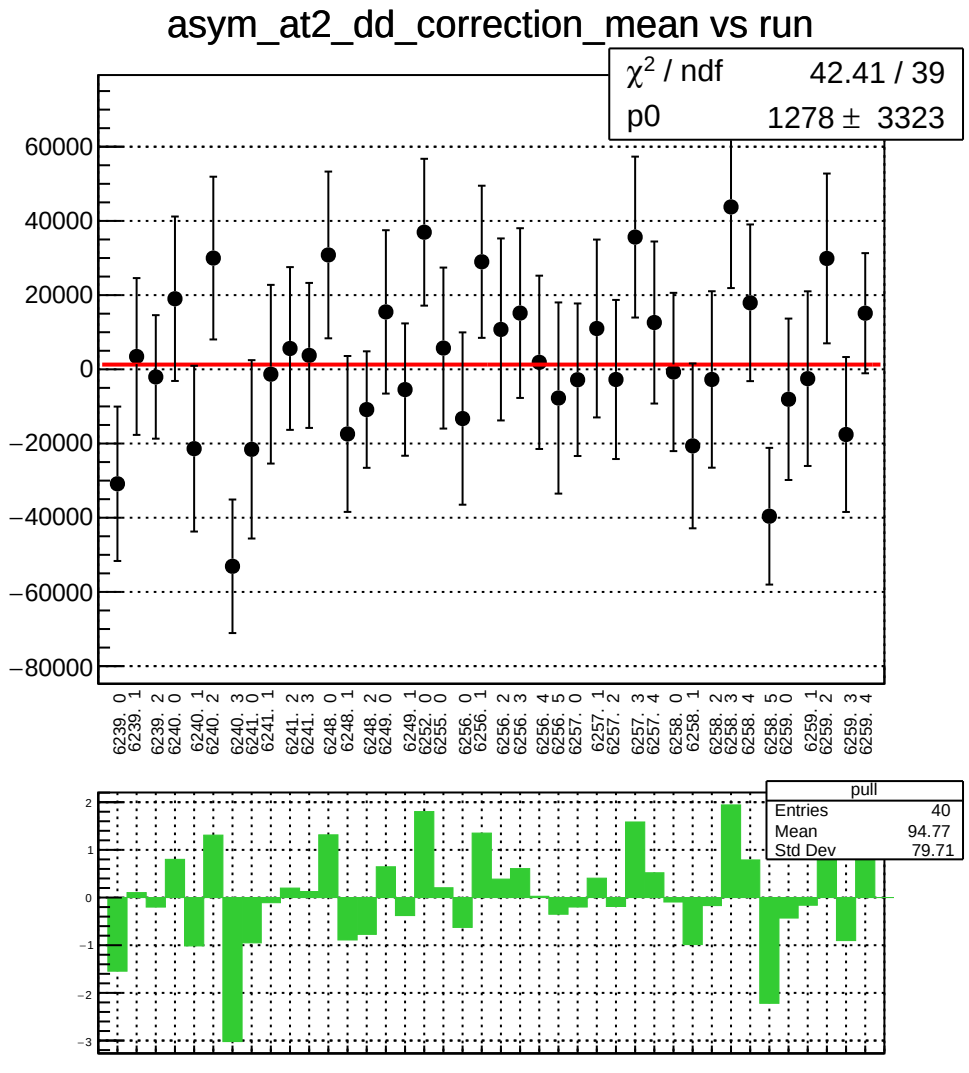

pull1D
Entries 40
Mean −0.01851
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

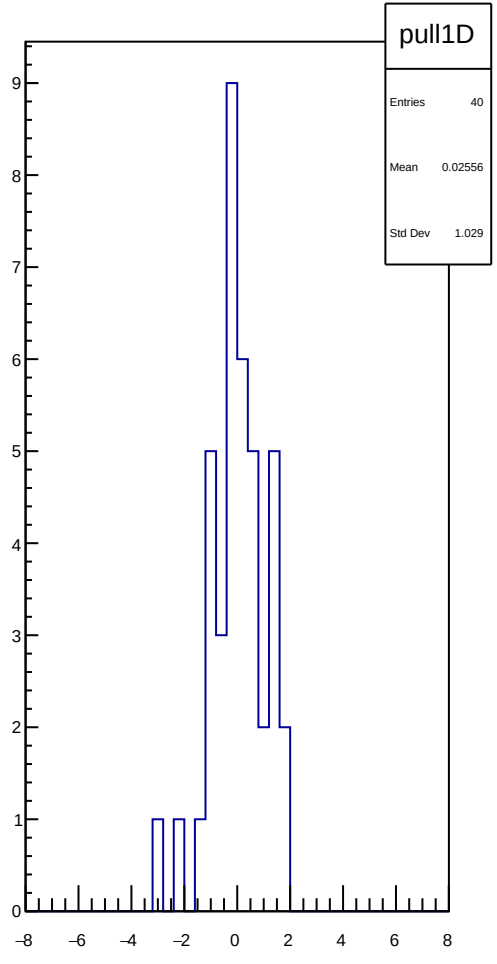

asym_at2_avg_rms vs run
χ² / ndf 2200 / 39
p0 7916 ± 8.795
9500
9000
8500
8000
7500
7000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

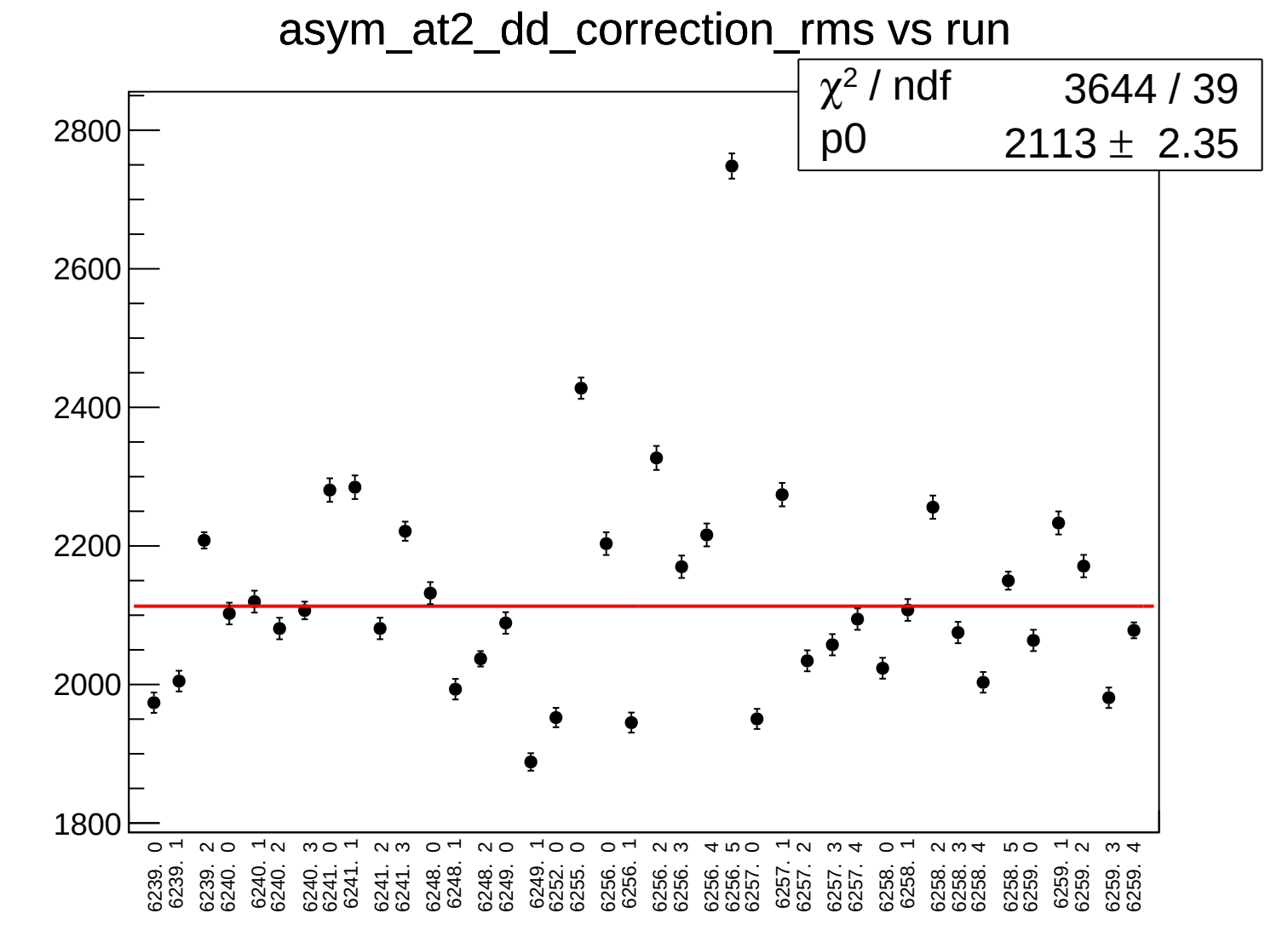

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 34.36 / 39
p0 1834 ± 2621
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −19.87
Std Dev 51.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

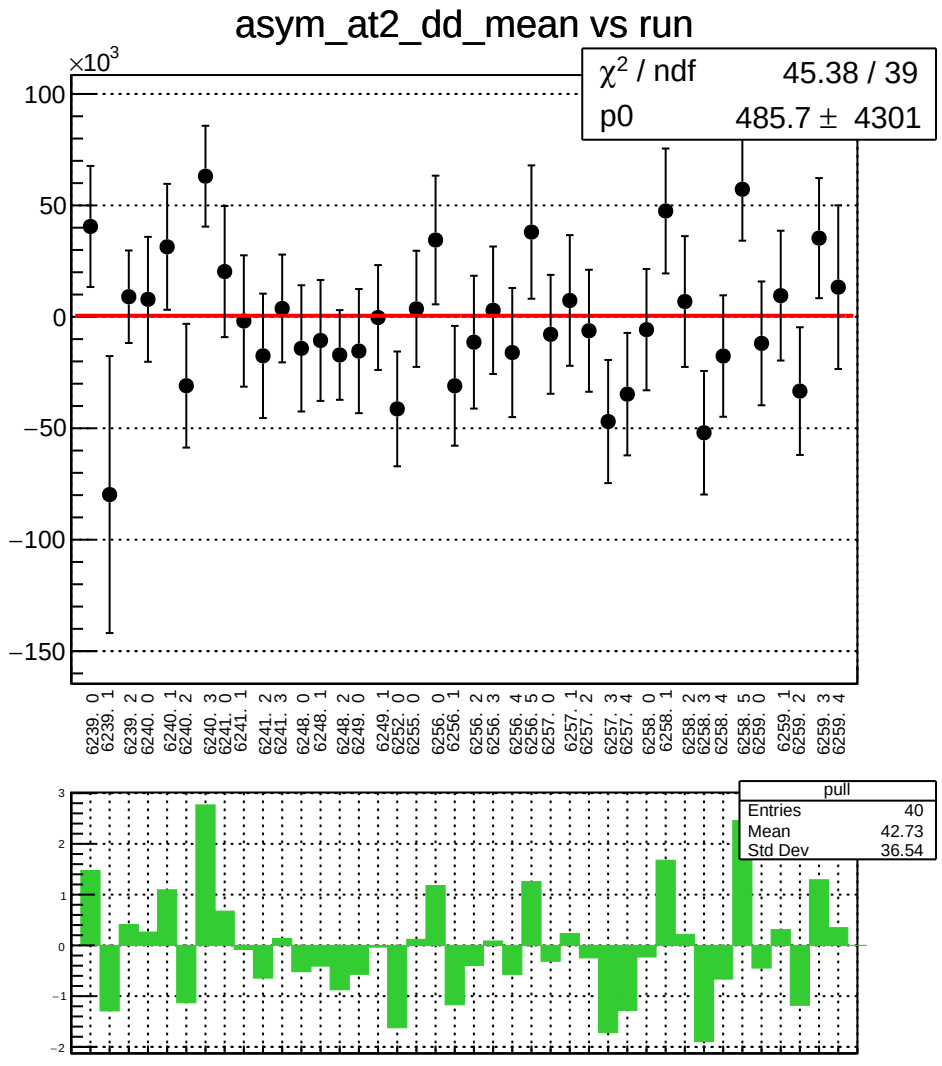

pull1D
Entries 40
Mean −0.01438
Std Dev 0.9268
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

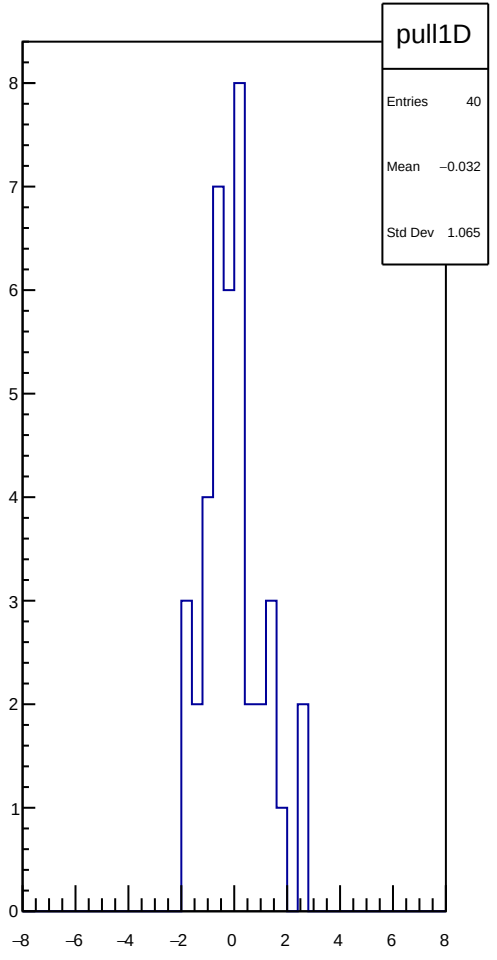

reg_asym_at2_dd_rms vs run
χ² / ndf 2.138e+04 / 39
p0 1648 ± 1.853
5500
5000
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

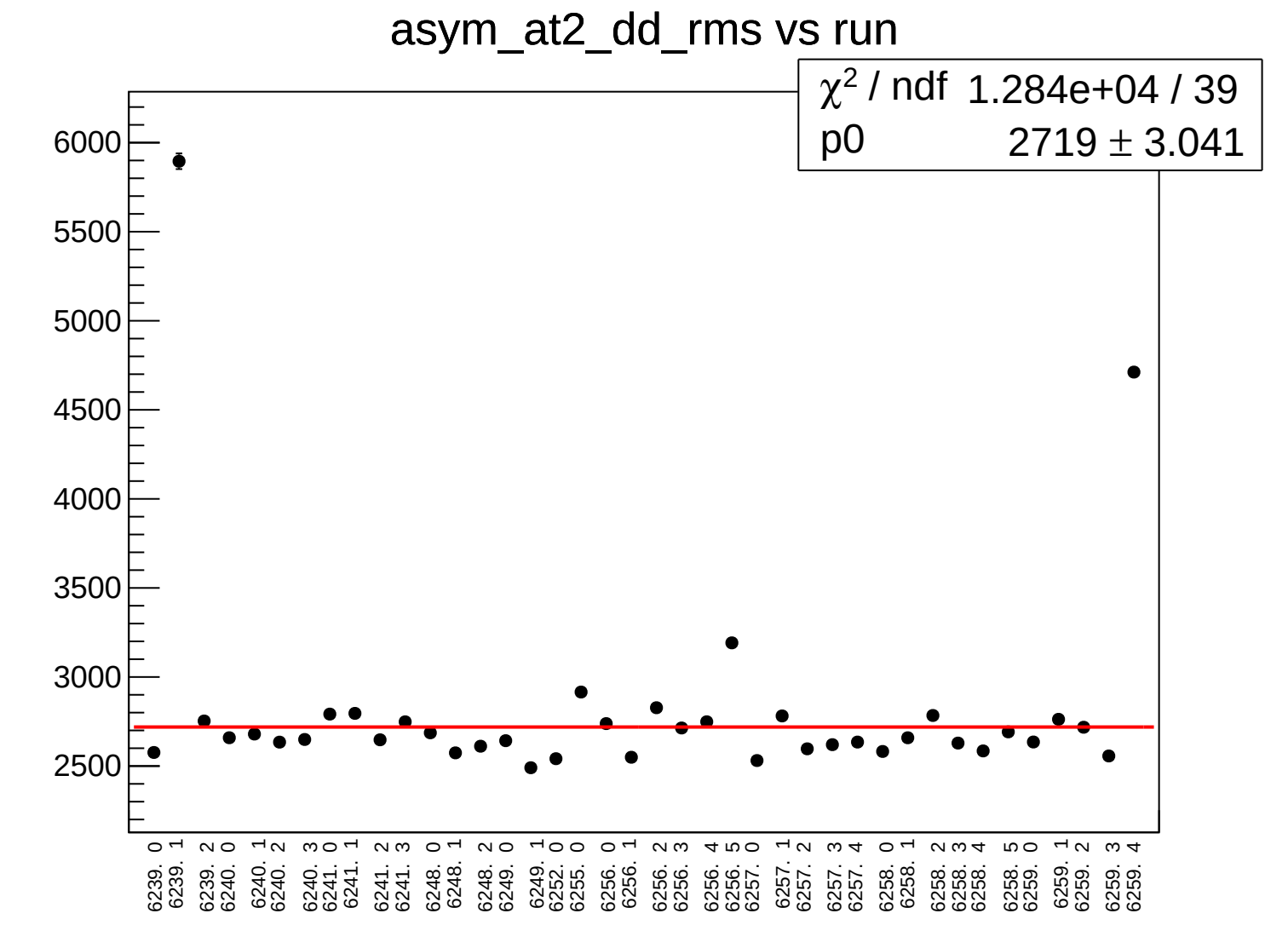

asym_at2_dd_correction_mean vs run
χ² / ndf 42.41 / 39
p0 1278 ± 3323
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 94.77
Std Dev 79.71
2
1
0
−1
−2
−3

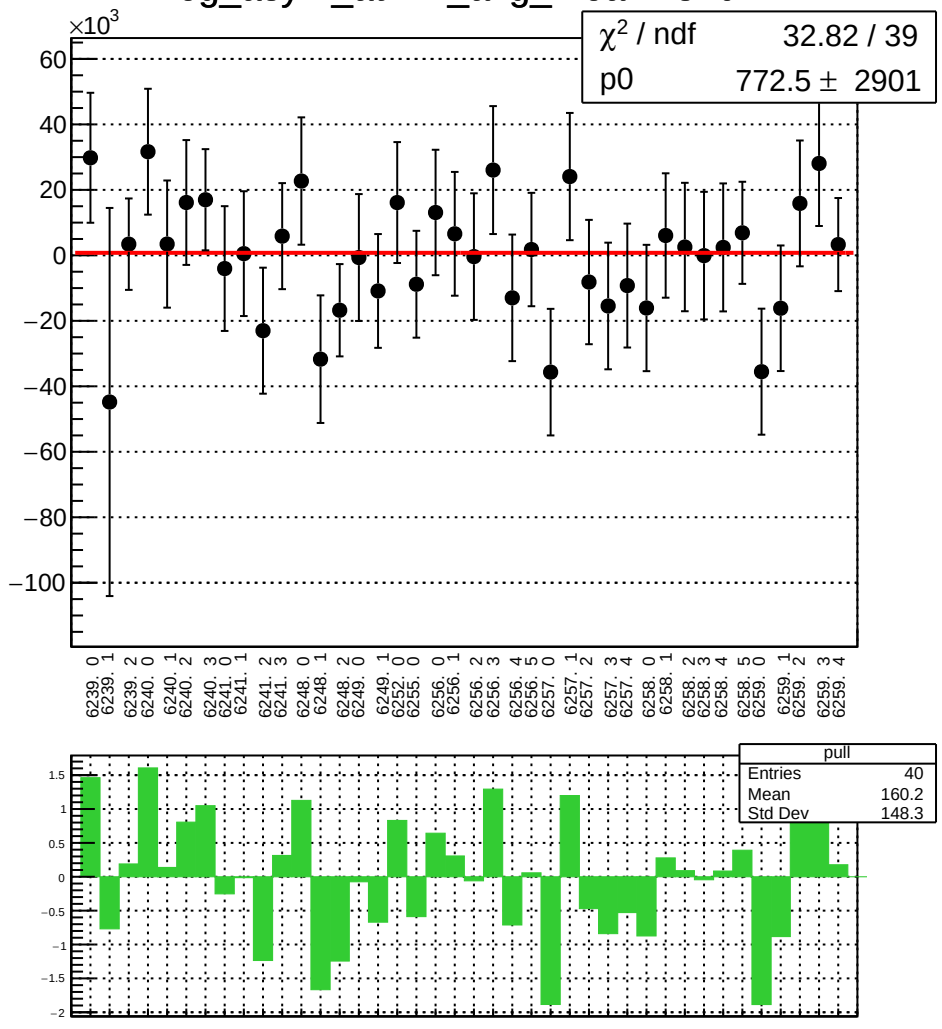

pull1D
Entries 40
Mean 0.02556
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

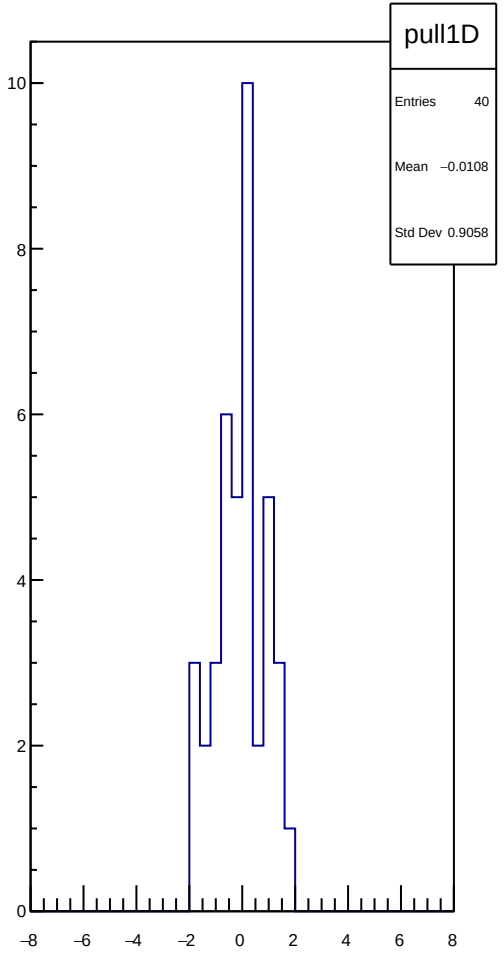

asym_at2_dd_correction_rms vs run
χ² / ndf 3644 / 39
p0 2113 ± 2.35
2800
2600
2400
2200
2000
1800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

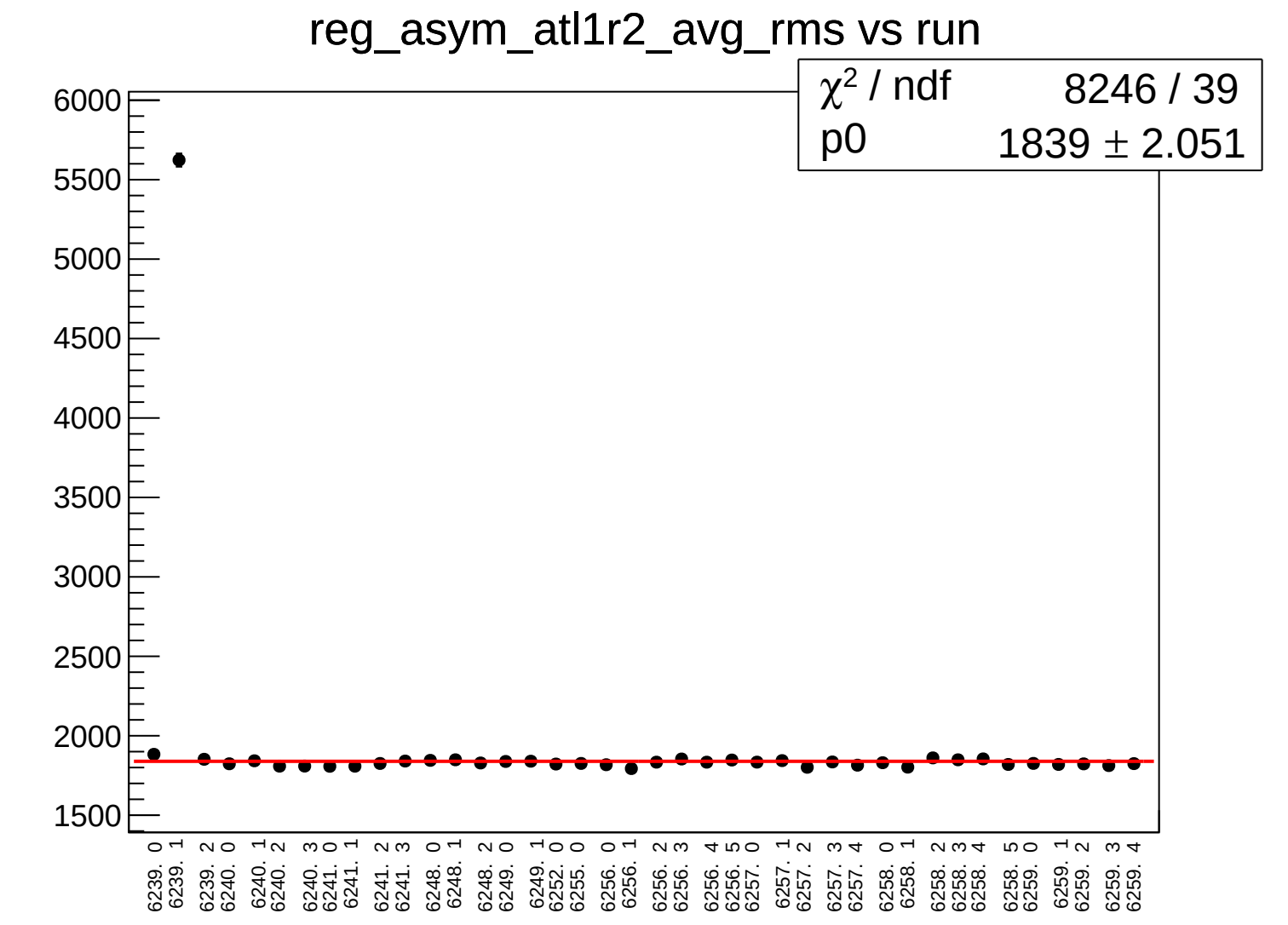

asym_at2_dd_mean vs run
×10^3
χ² / ndf 45.38 / 39
p0 485.7 ± 4301
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 42.73
Std Dev 36.54
3
2
1
0
−1
−2

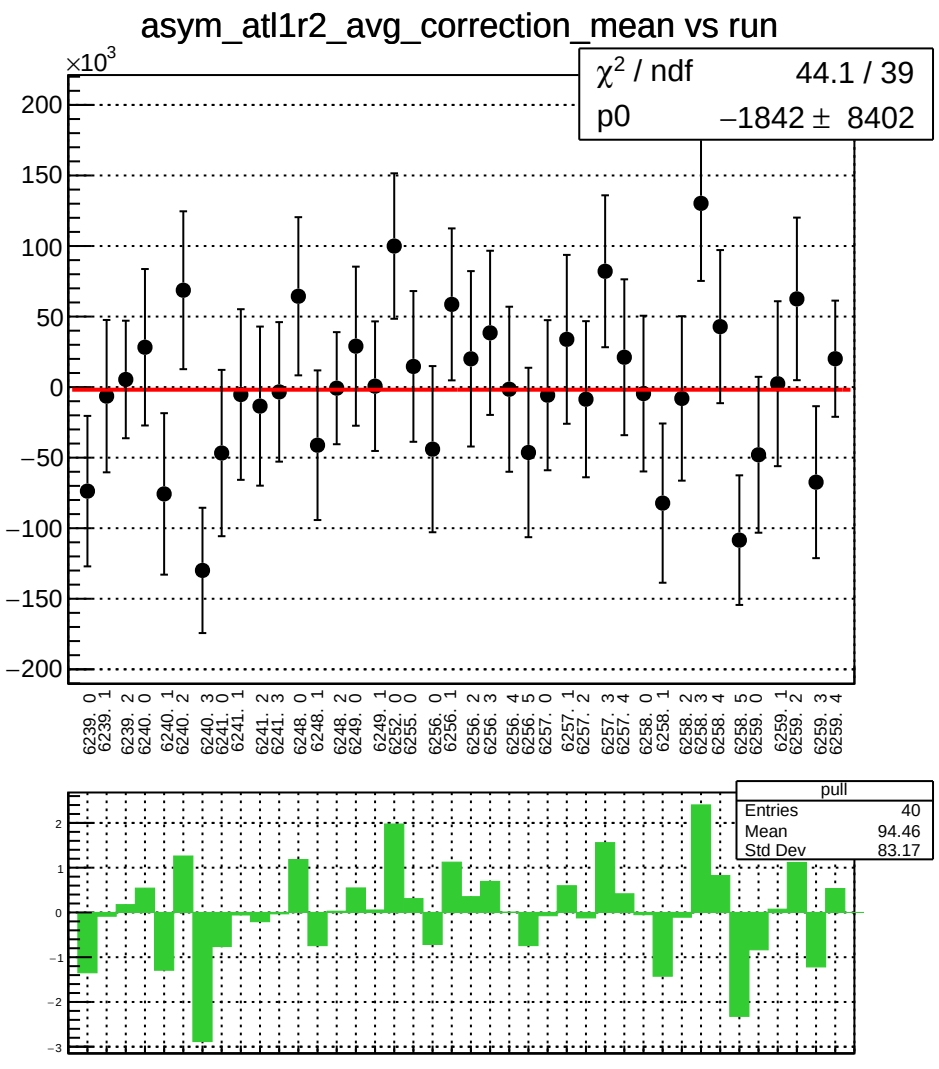

pull1D
Entries 40
Mean −0.032
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

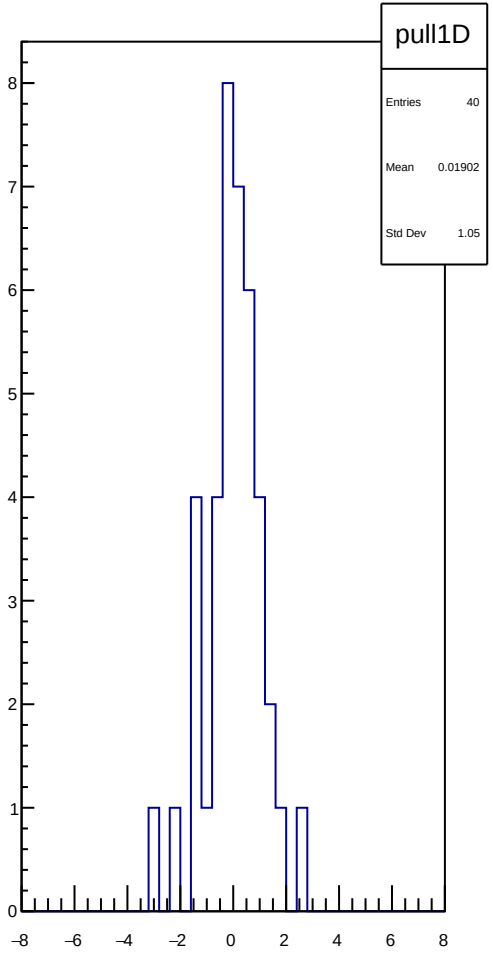

asym_at2_dd_rms vs run
χ² / ndf 1.284e+04 / 39
p0 2719 ± 3.041
6000
5500
5000
4500
4000
3500
3000
2500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

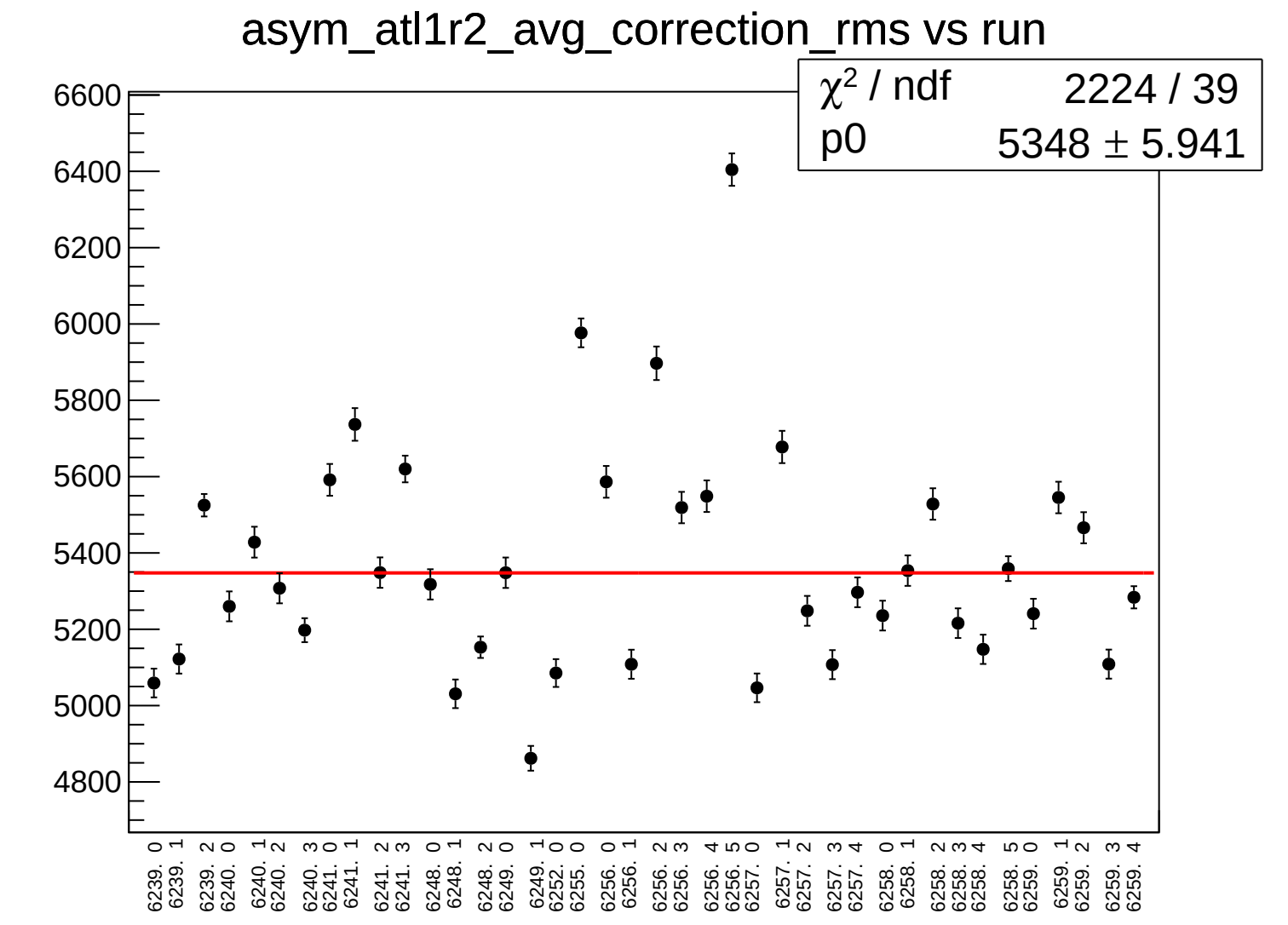

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 32.82 / 39
p0 772.5 ± 2901
pull
Entries 40
Mean 160.2
Std Dev 148.3

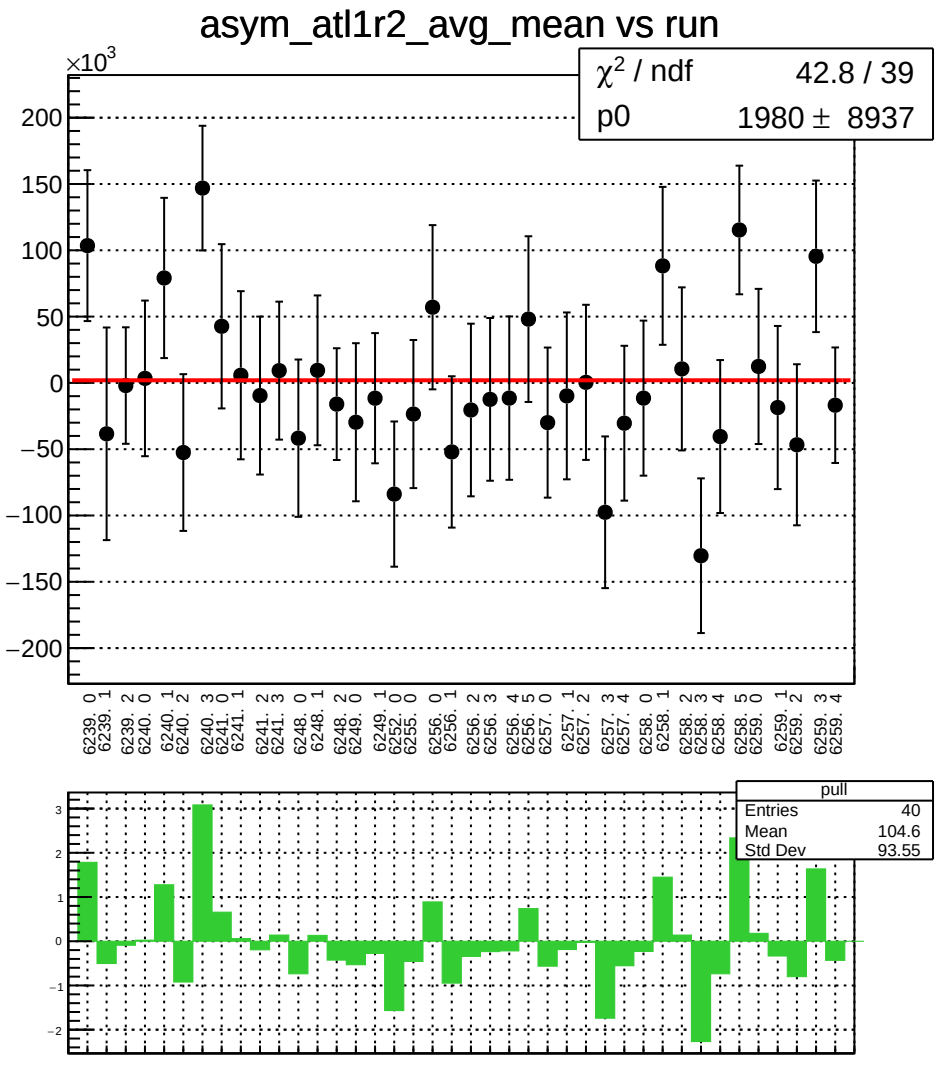

pull1D
Entries 40
Mean −0.0108
Std Dev 0.9058

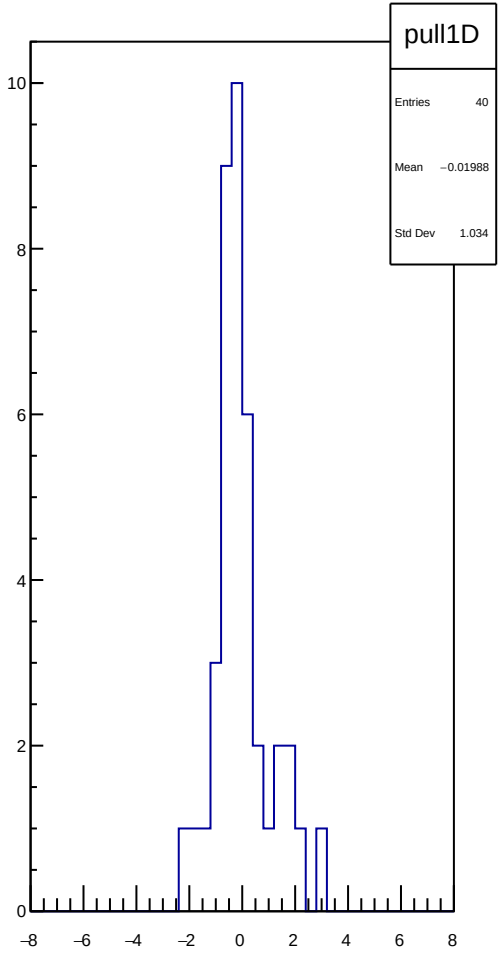

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8246 / 39
p0 1839 ± 2.051
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

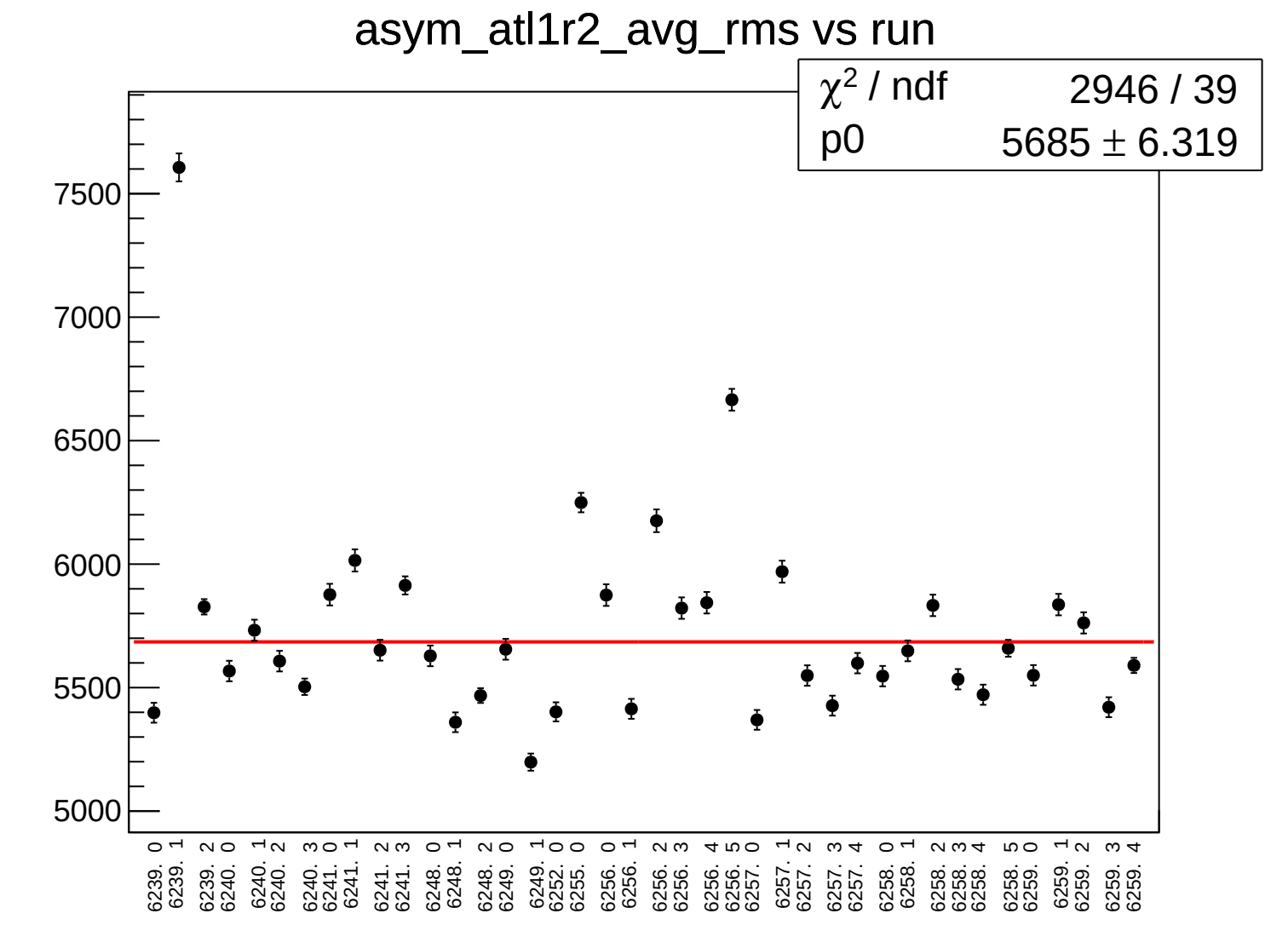

asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 44.1 / 39
p0 −1842 ± 8402
200
150
100
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 94.46
Std Dev 83.17
2
1
0
−1
−2
−3

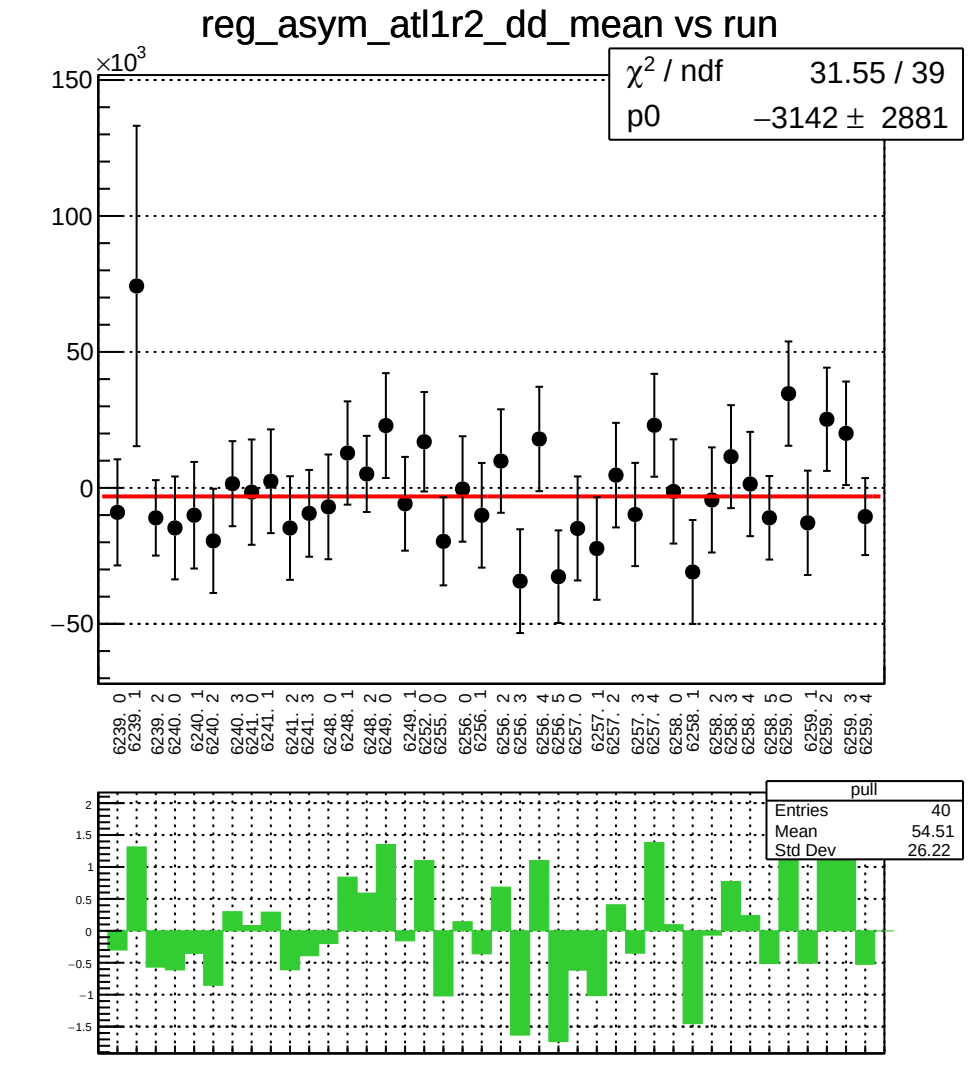

pull1D
Entries 40
Mean 0.01902
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

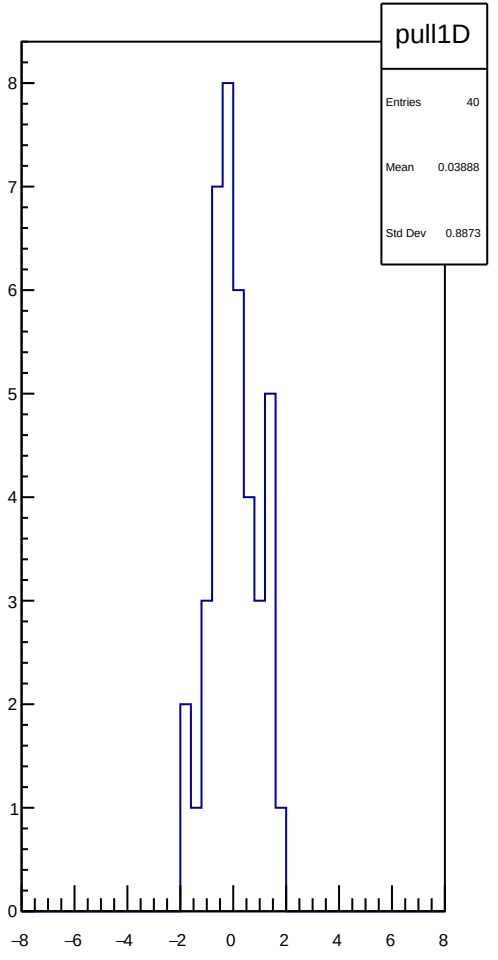

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2224 / 39
p0 5348 ± 5.941
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

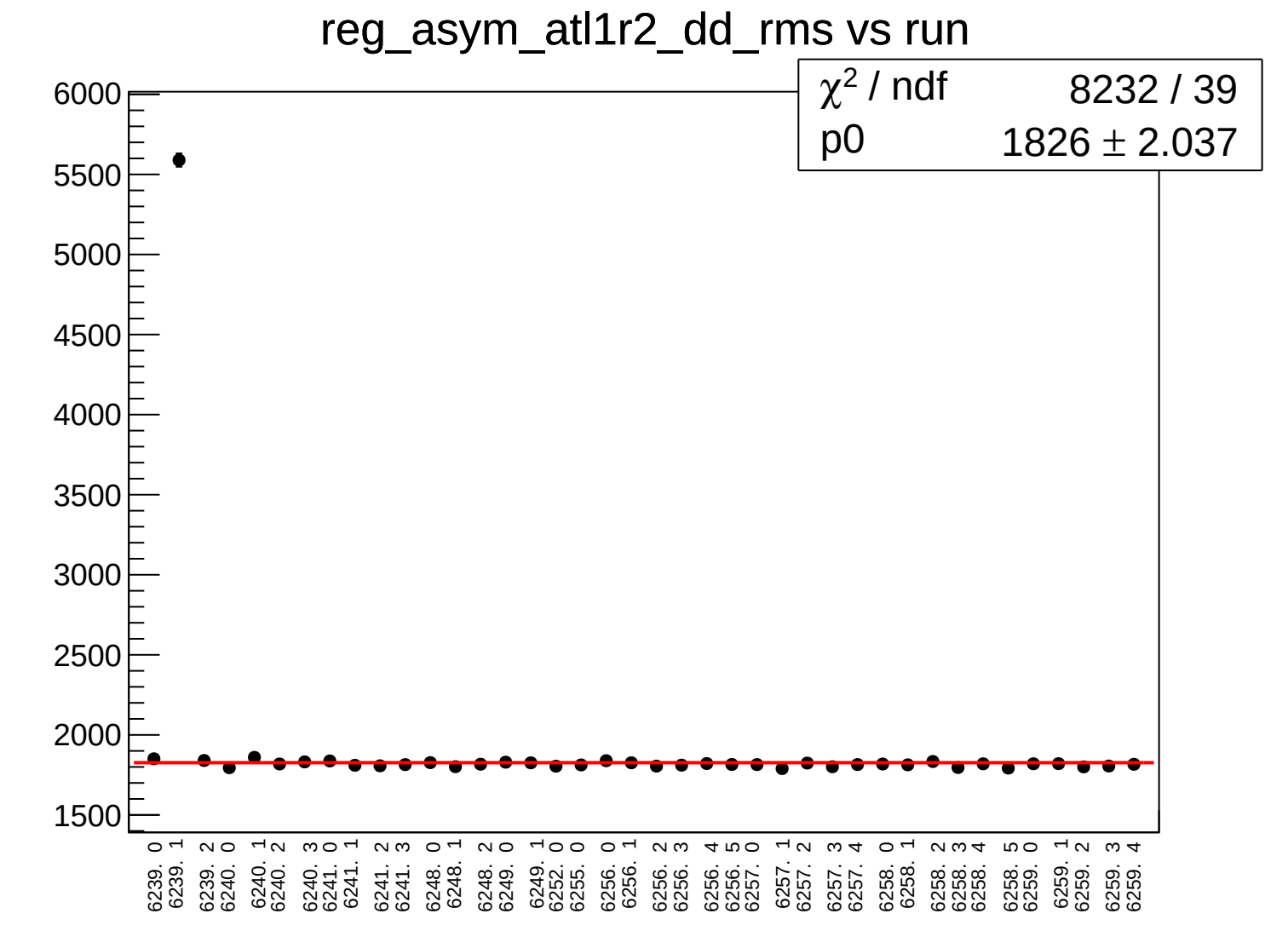

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 42.8 / 39
p0 1980 ± 8937
200
150
100
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 104.6
Std Dev 93.55
3
2
1
0
−1
−2

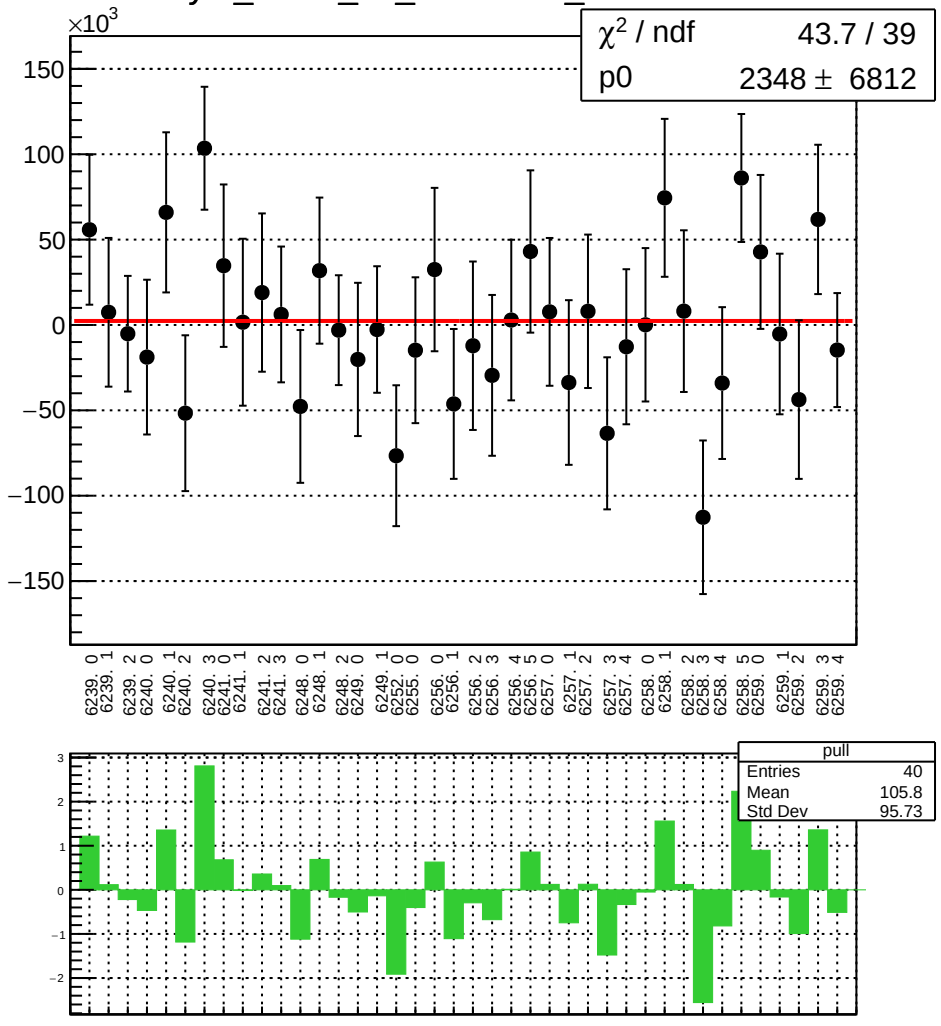

pull1D
Entries 40
Mean −0.01988
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

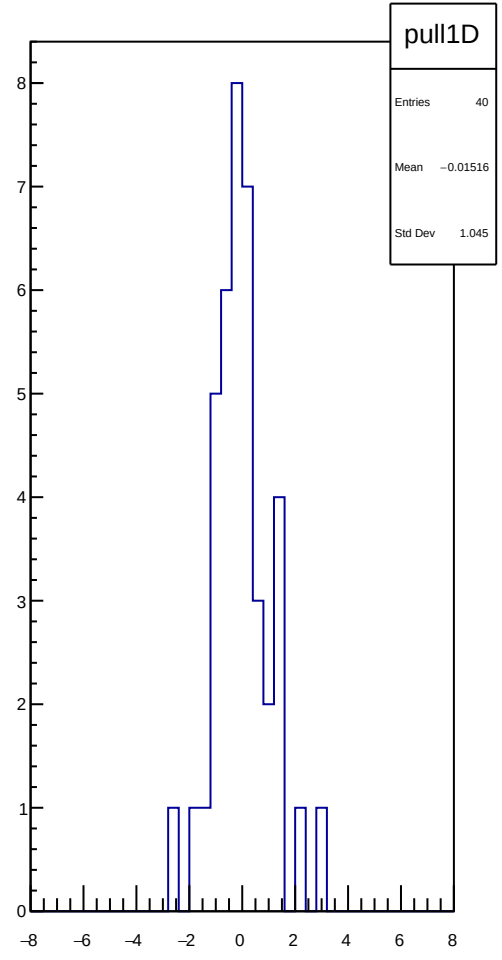

asym_atl1r2_avg_rms vs run
χ² / ndf 2946 / 39
p0 5685 ± 6.319
7500
7000
6500
6000
5500
5000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

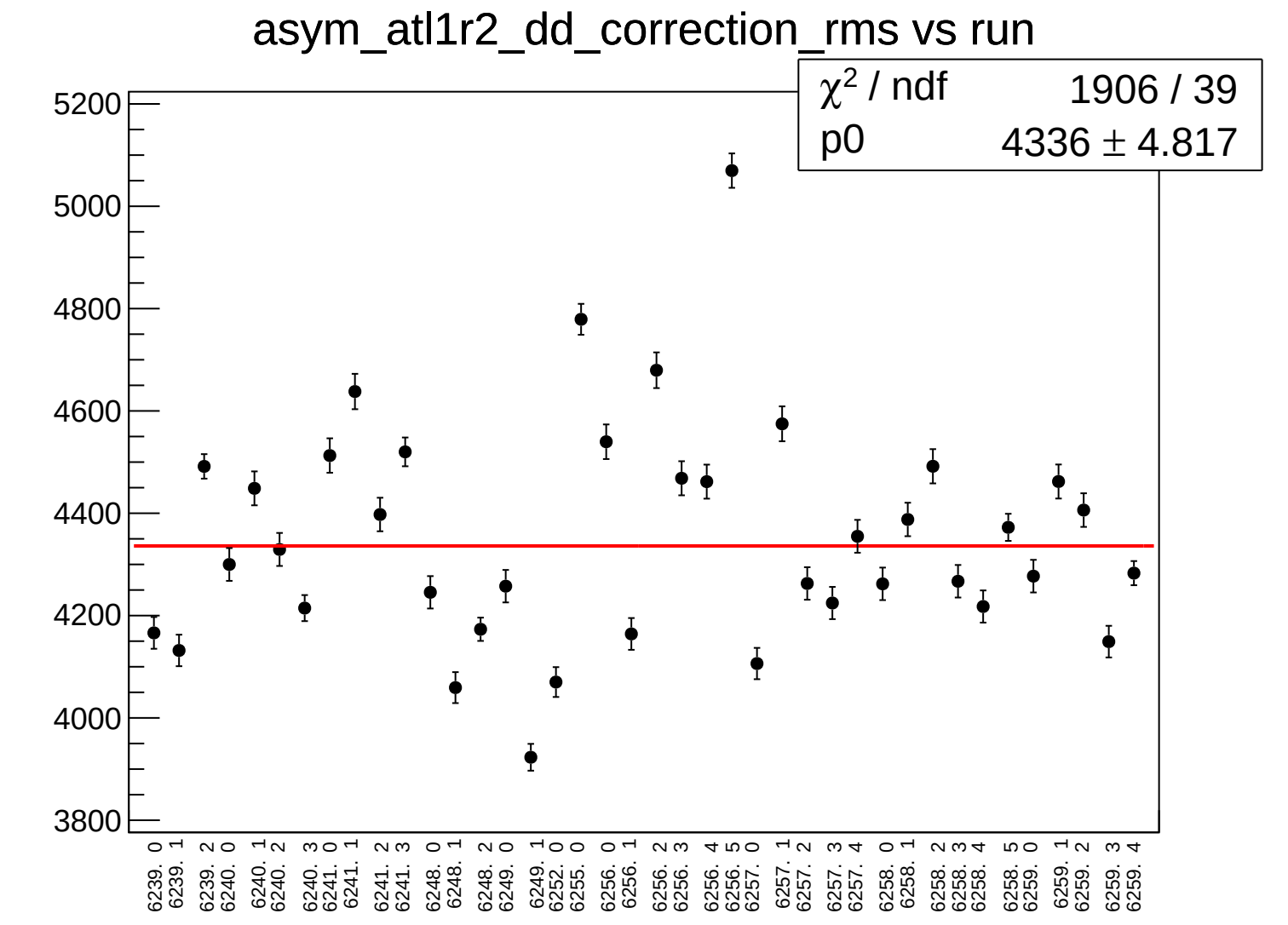

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 31.55 / 39
p0 −3142 ± 2881
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 54.51
Std Dev 26.22
2
1.5
1
0.5
0
−0.5
−1
−1.5

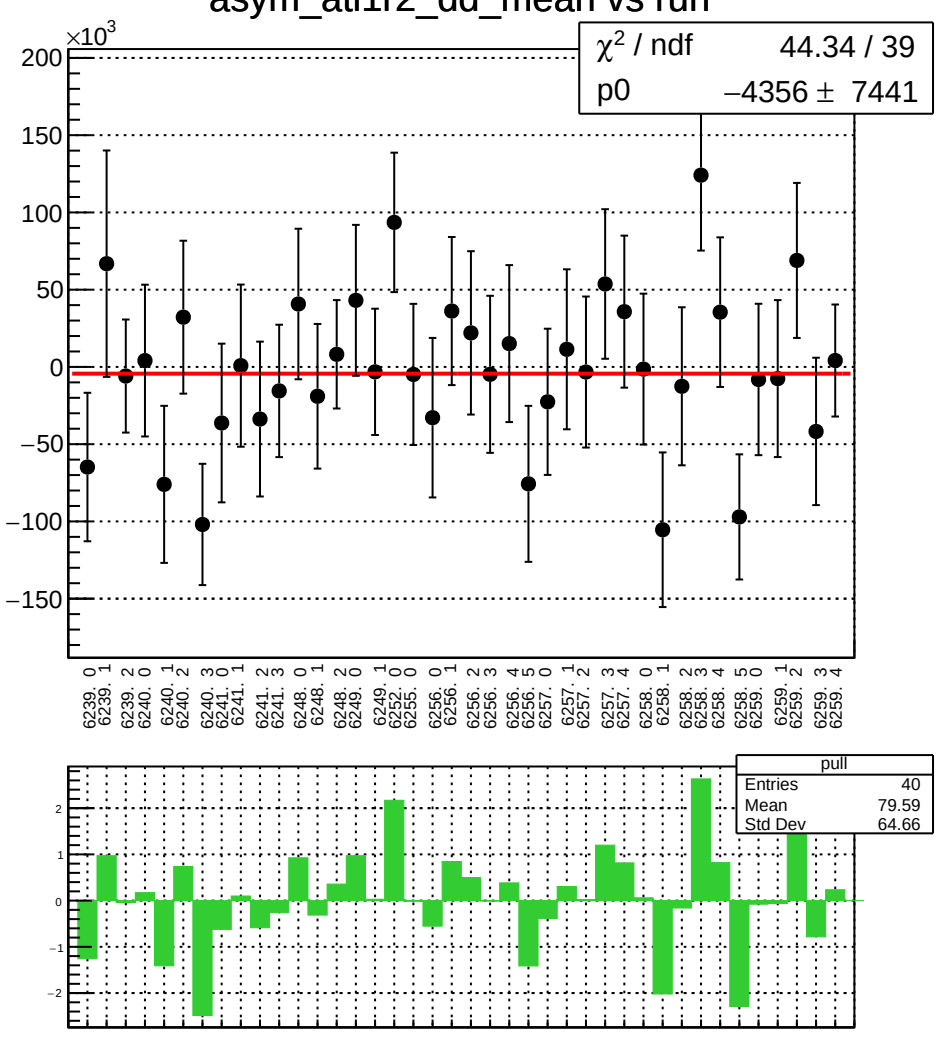

pull1D
Entries 40
Mean 0.03888
Std Dev 0.8873
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

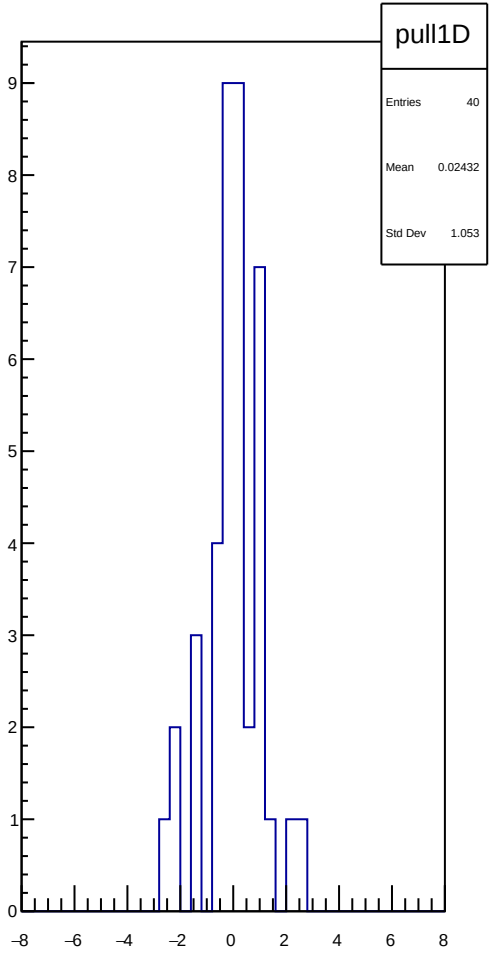

reg_asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 8232 / 39
p0 1826 ± 2.037
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

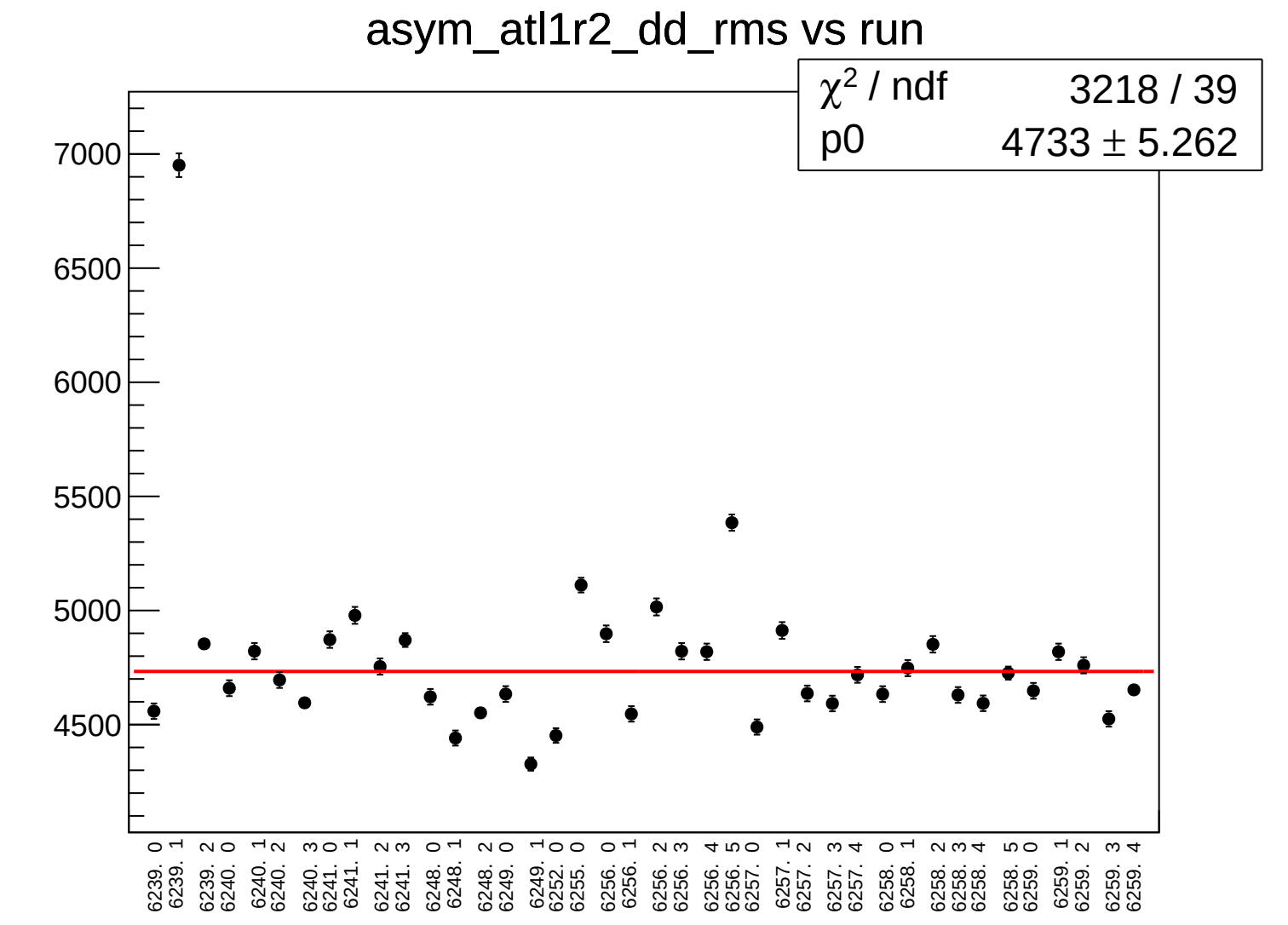

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 43.7 / 39
p0 2348 ± 6812
150
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 105.8
Std Dev 95.73
3
2
1
0
−1
−2

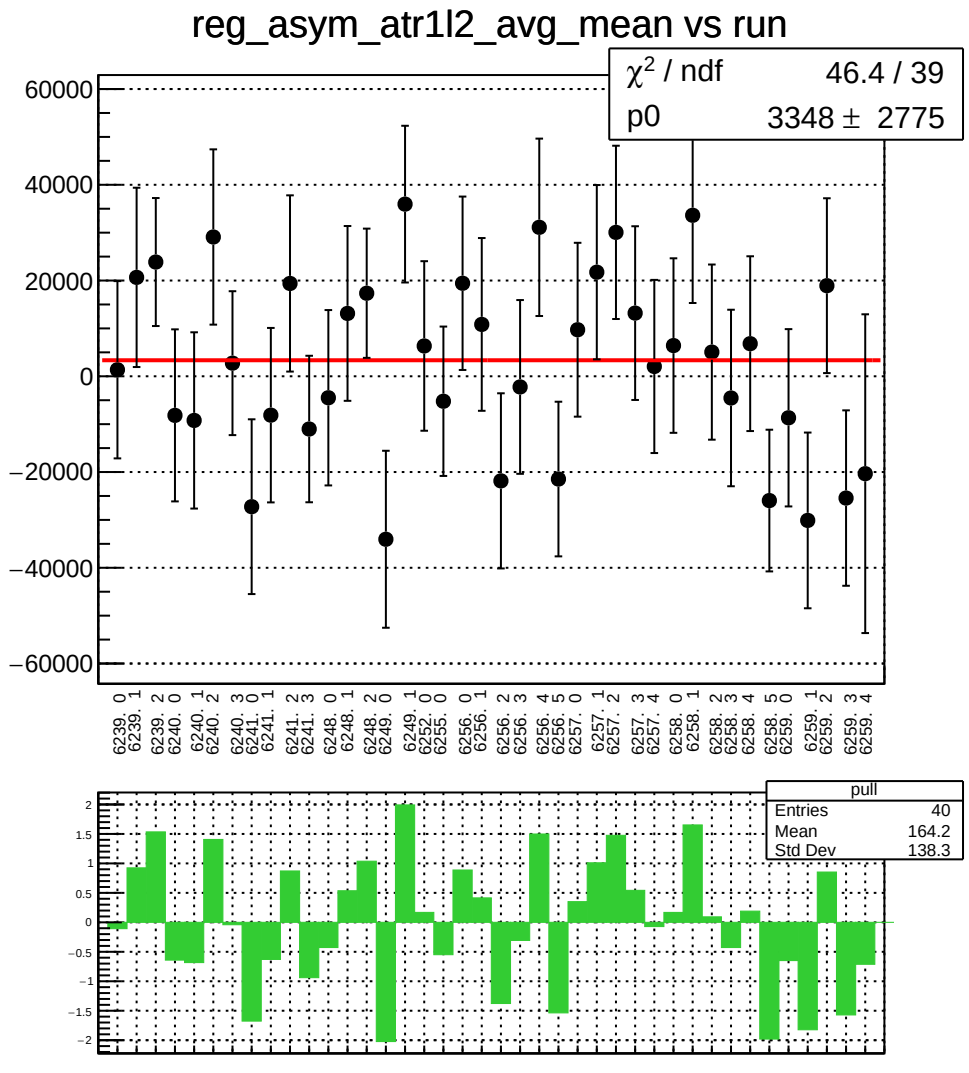

pull1D
Entries 40
Mean −0.01516
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

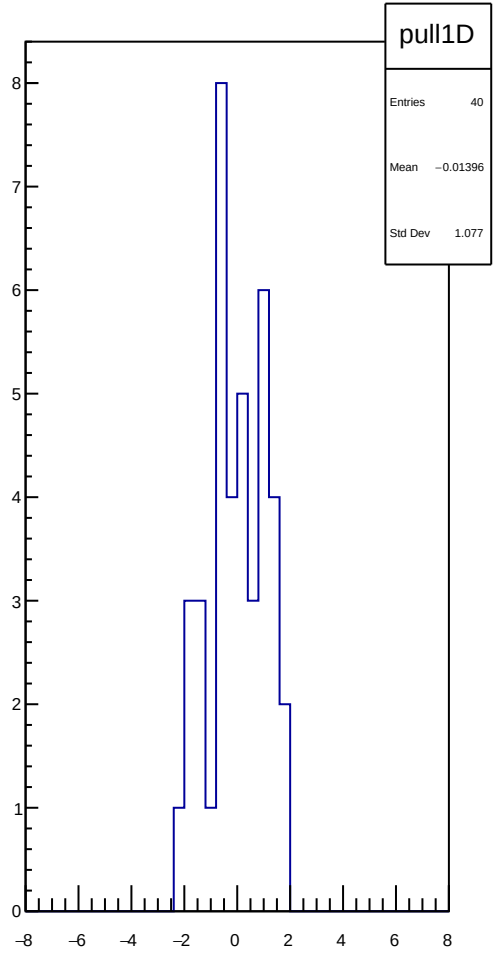

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1906 / 39
p0 4336 ± 4.817
5200
5000
4800
4600
4400
4200
4000
3800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

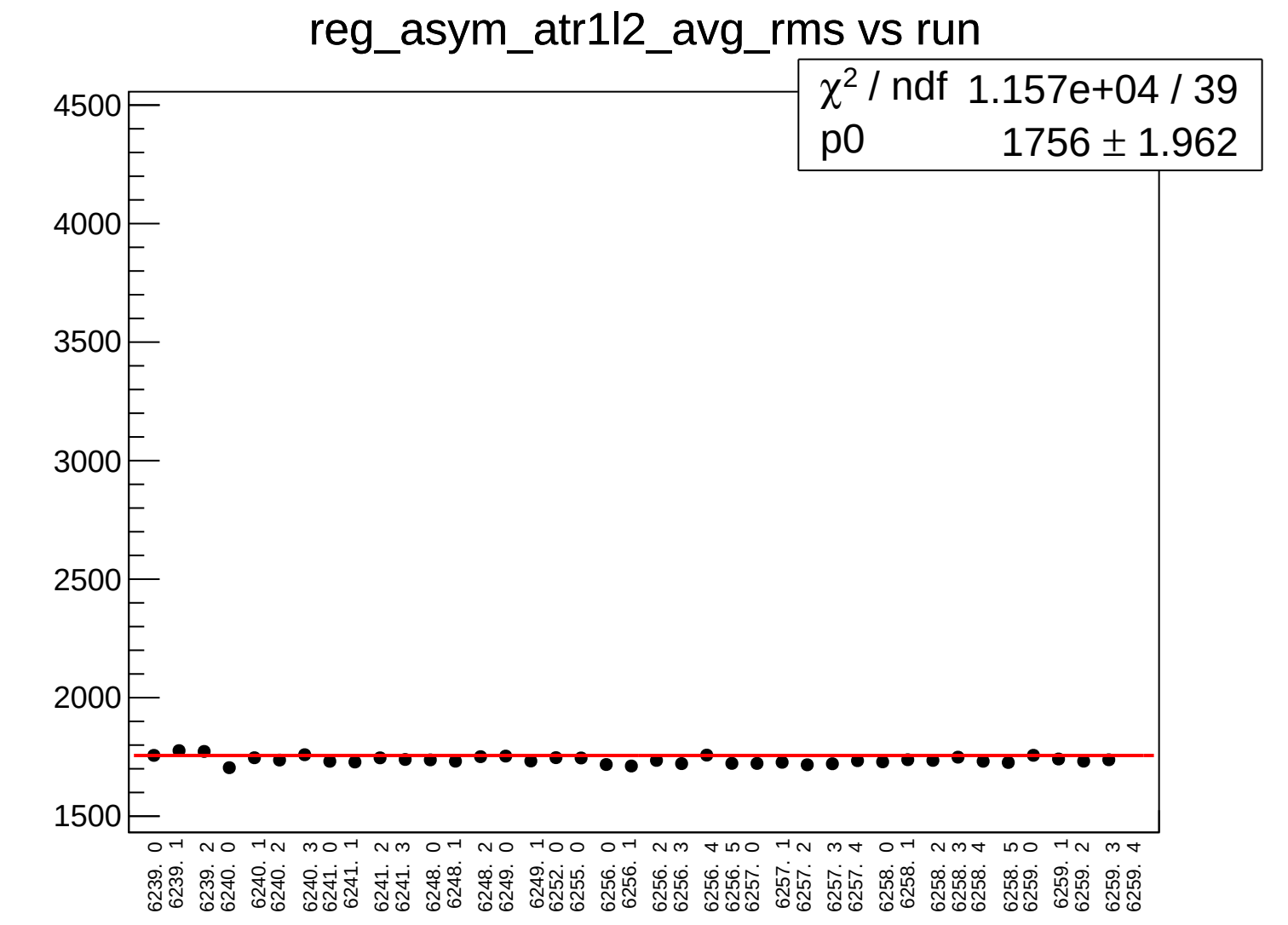

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 44.34 / 39
p0 −4356 ± 7441
pull
Entries 40
Mean 79.59
Std Dev 64.66

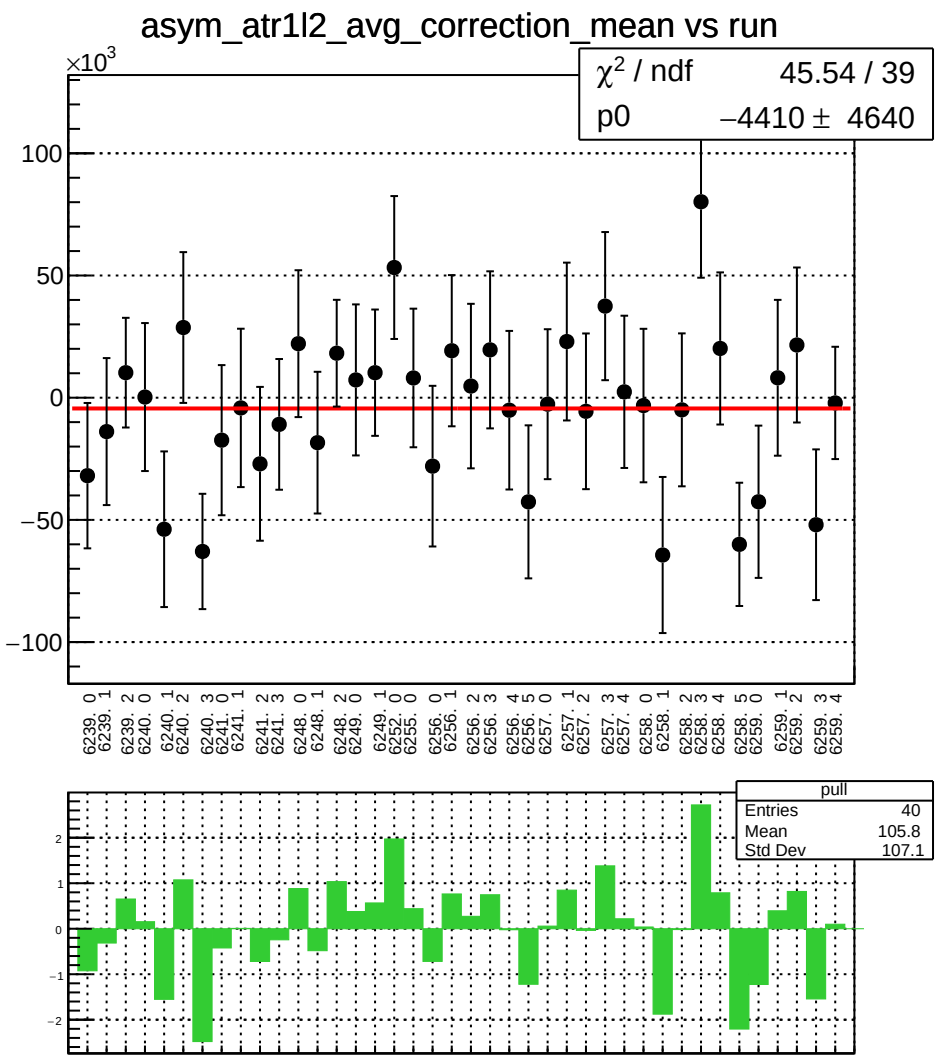

pull1D
Entries 40
Mean 0.02432
Std Dev 1.053

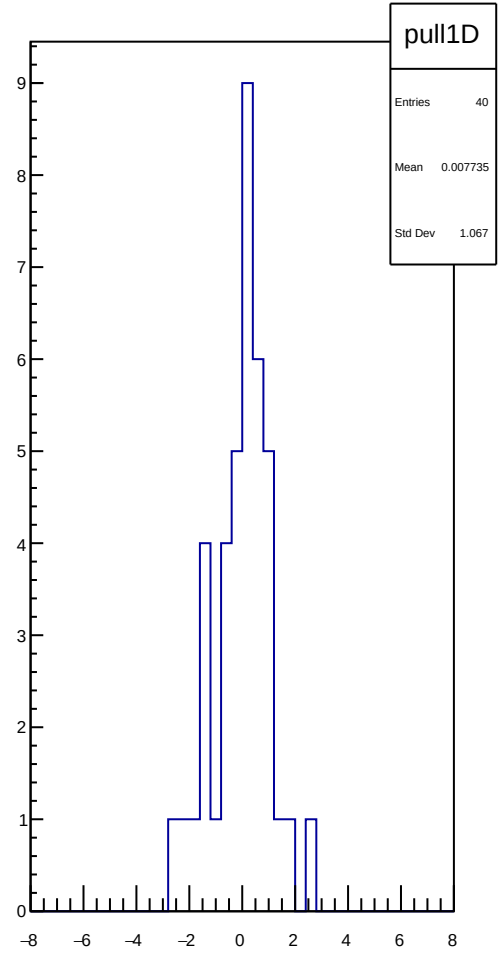

asym_atl1r2_dd_rms vs run
χ² / ndf 3218 / 39
p0 4733 ± 5.262
7000
6500
6000
5500
5000
4500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

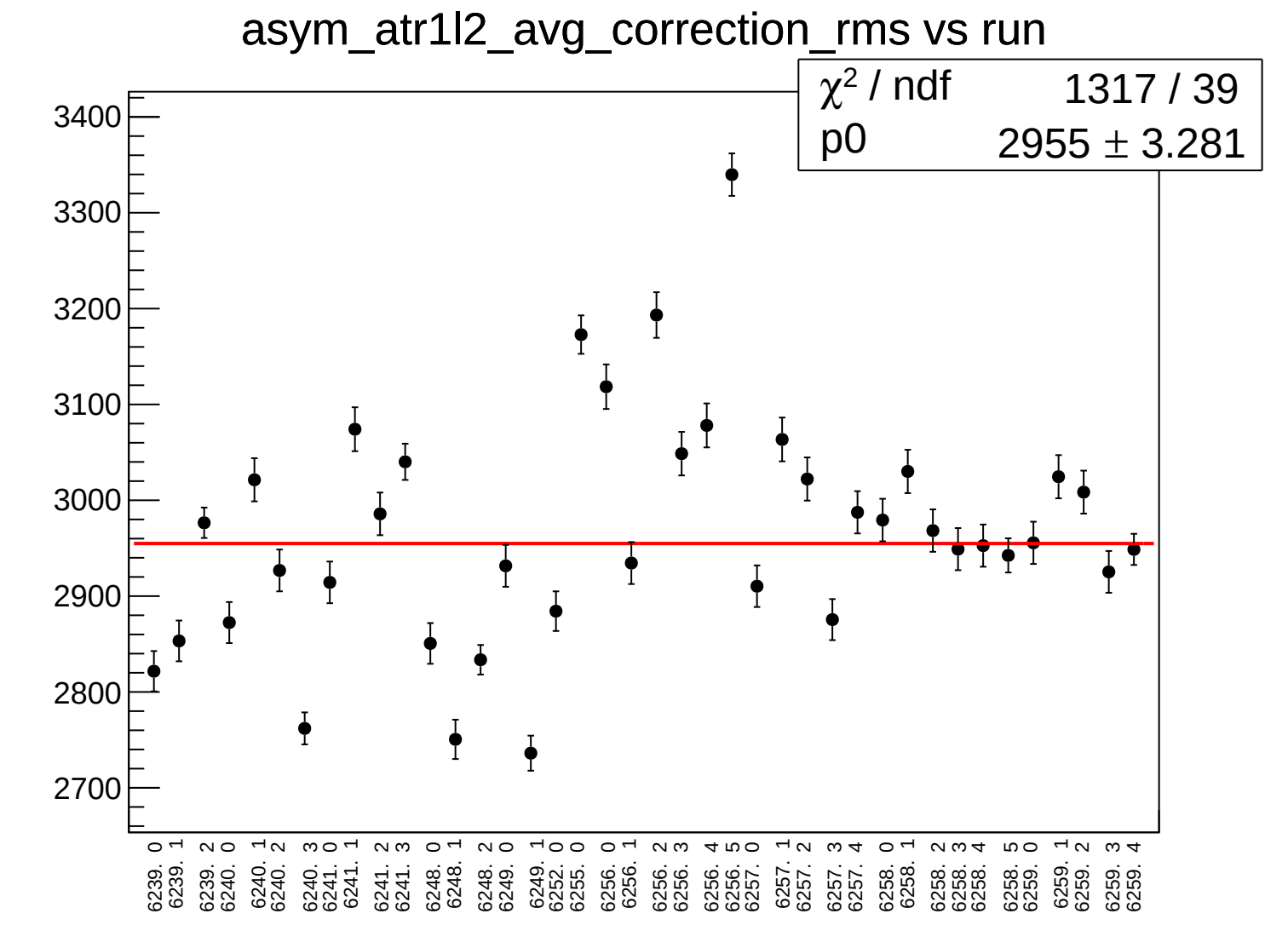

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 46.4 / 39
p0 3348 ± 2775
60000
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 164.2
Std Dev 138.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

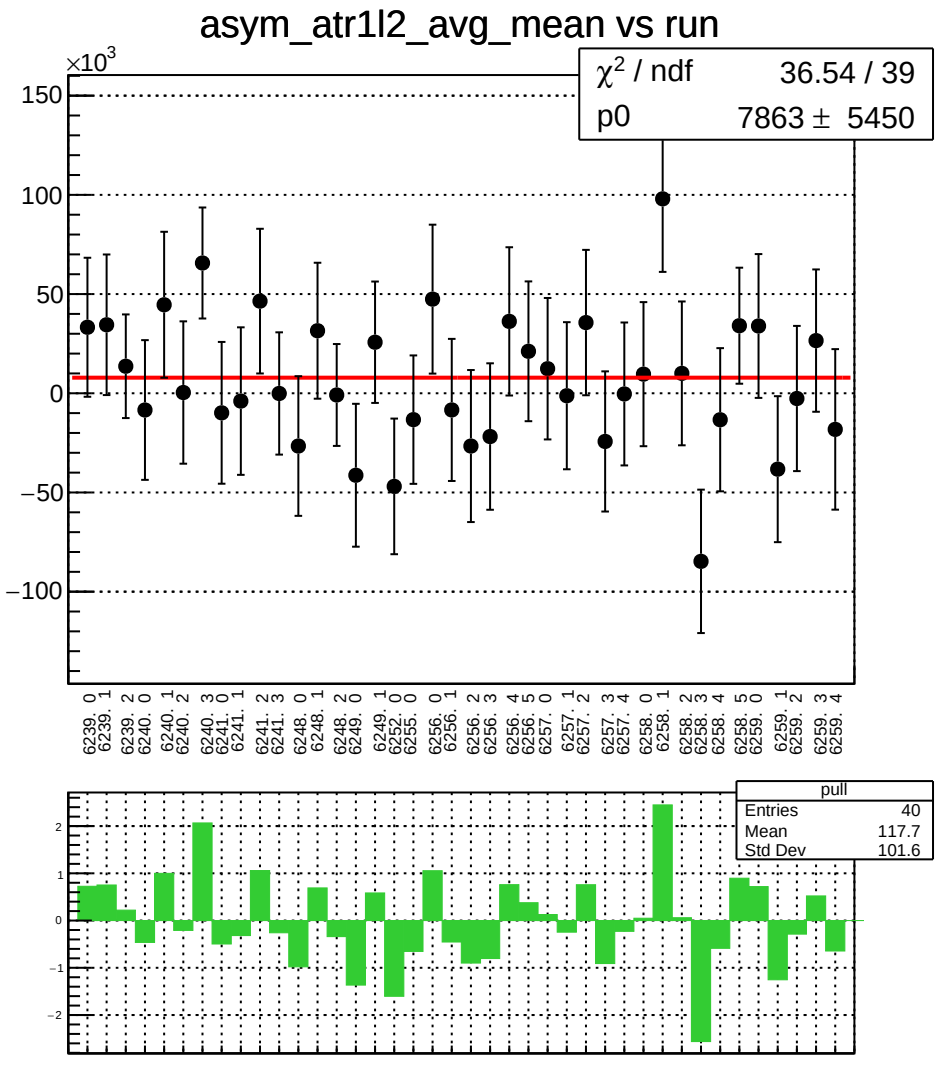

pull1D
Entries 40
Mean −0.01396
Std Dev 1.077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

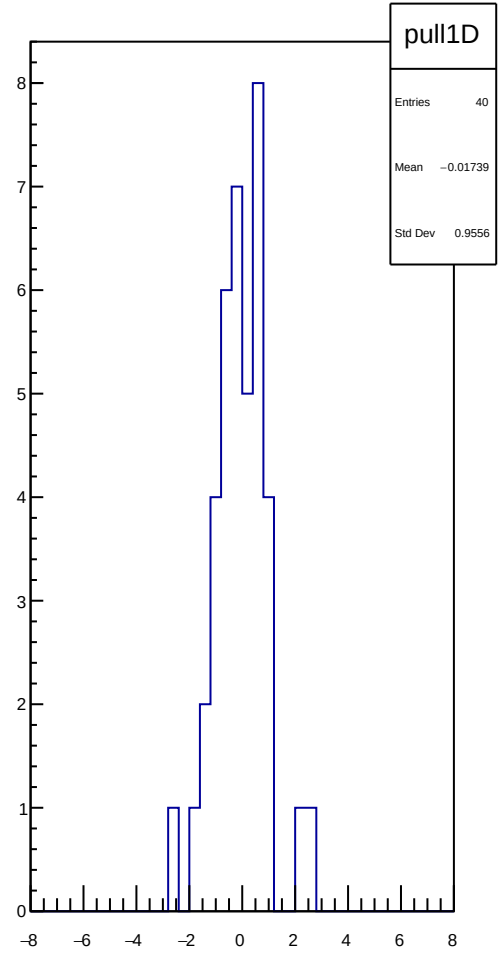

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.157e+04 / 39
p0 1756 ± 1.962
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

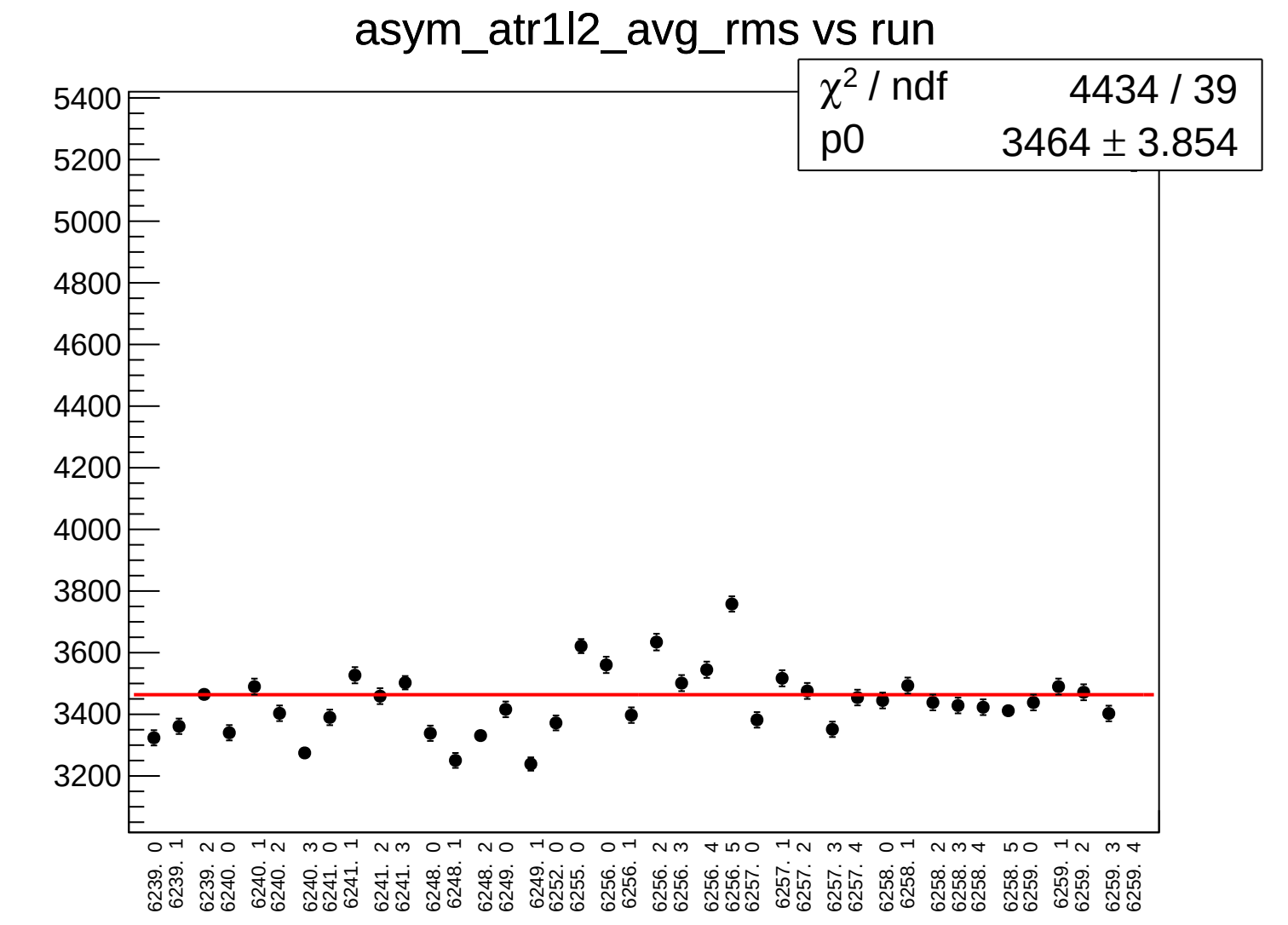

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 45.54 / 39
p0 −4410 ± 4640
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 105.8
Std Dev 107.1
2
1
0
−1
−2

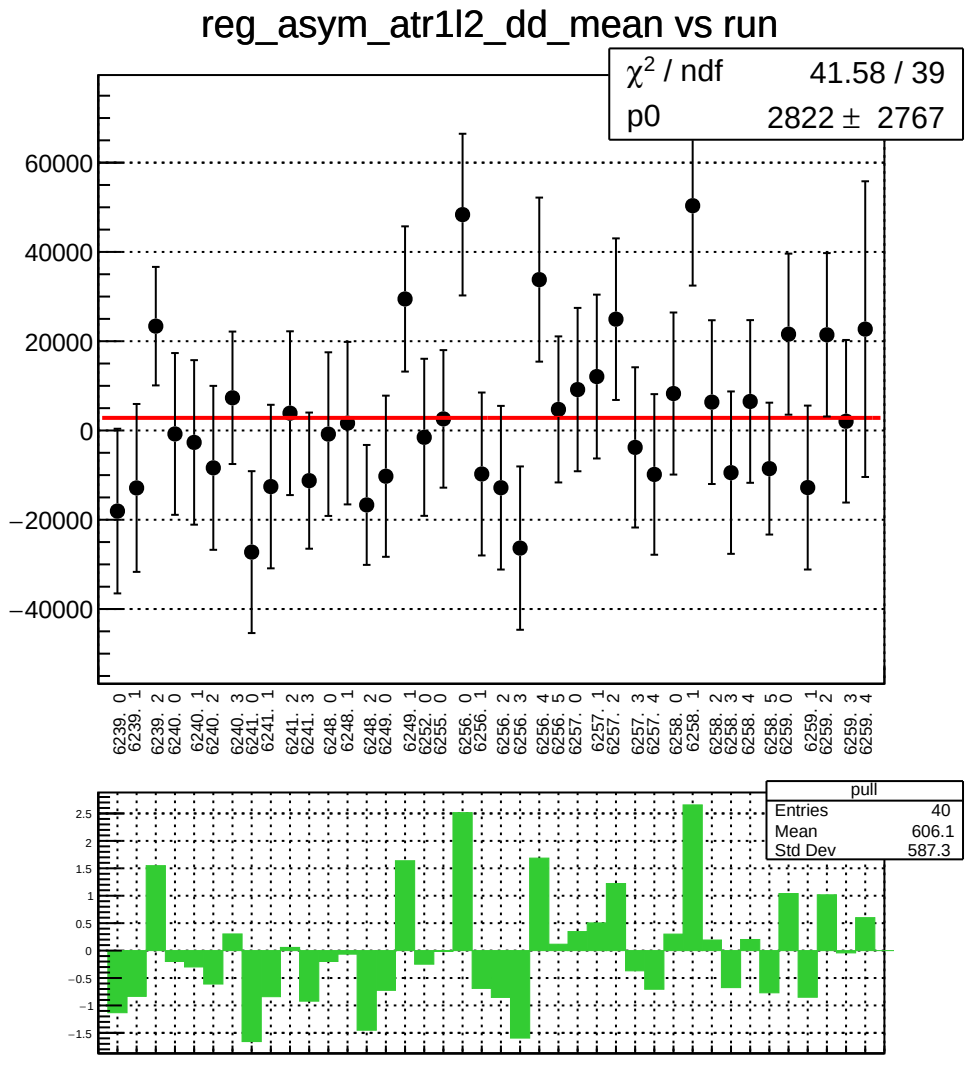

pull1D
Entries 40
Mean 0.007735
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

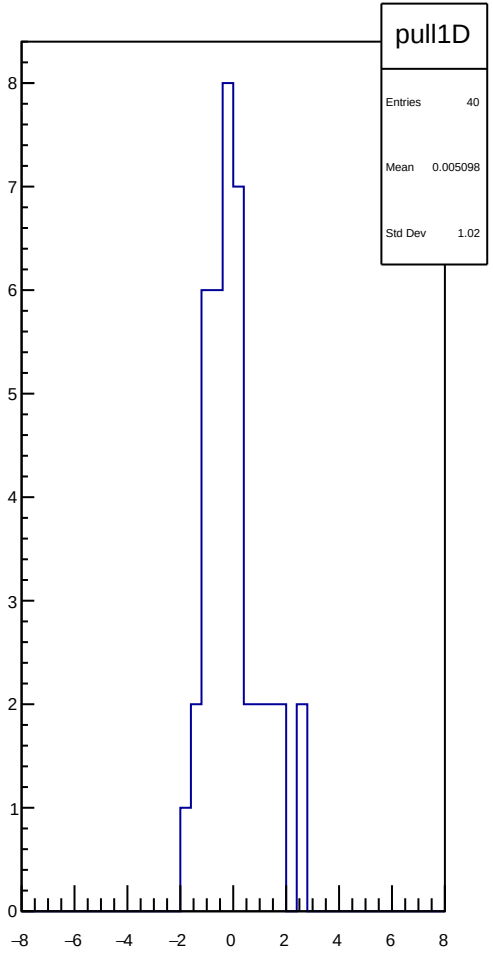

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1317 / 39
p0 2955 ± 3.281
3400
3300
3200
3100
3000
2900
2800
2700
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

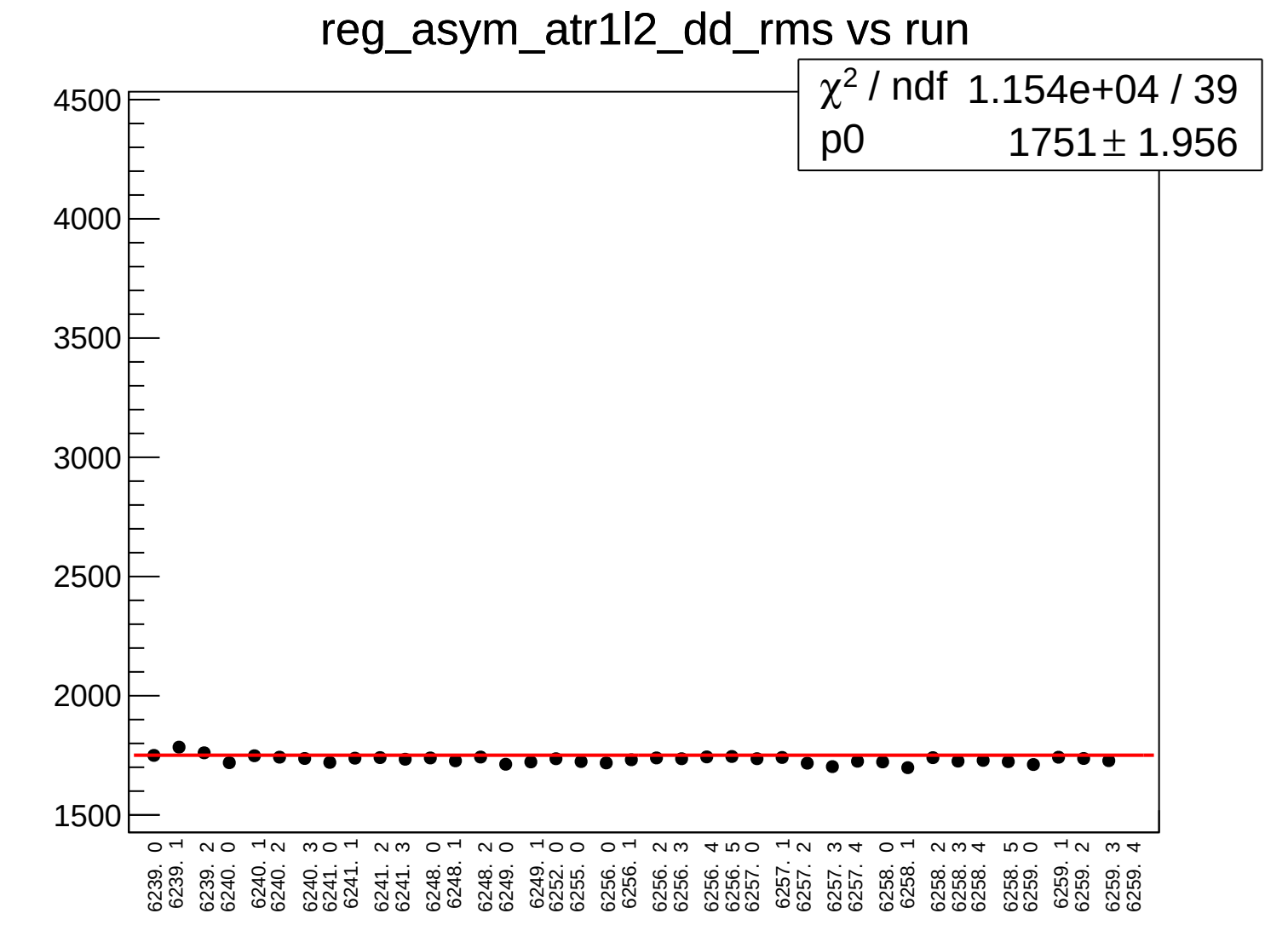

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 36.54 / 39
p0 7863 ± 5450
150
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 117.7
Std Dev 101.6
2
1
0
−1
−2

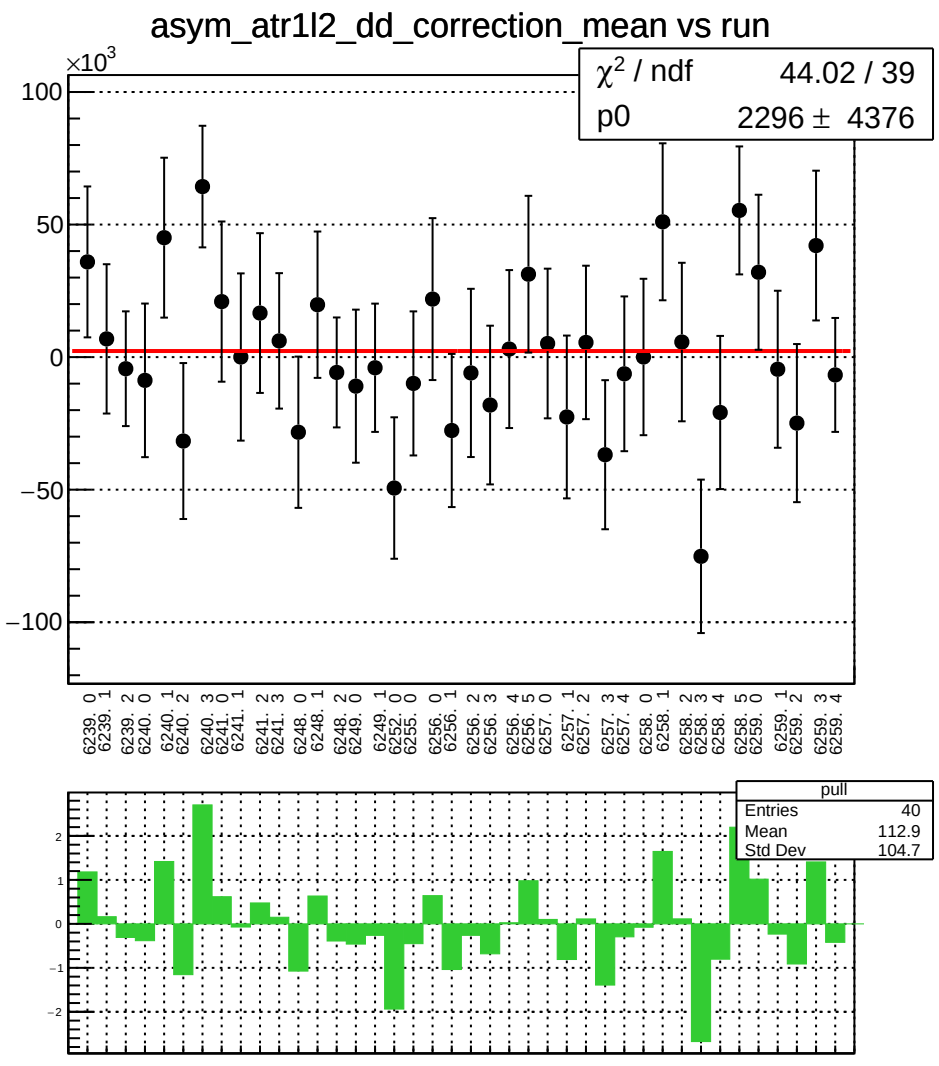

pull1D
Entries 40
Mean −0.01739
Std Dev 0.9556
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

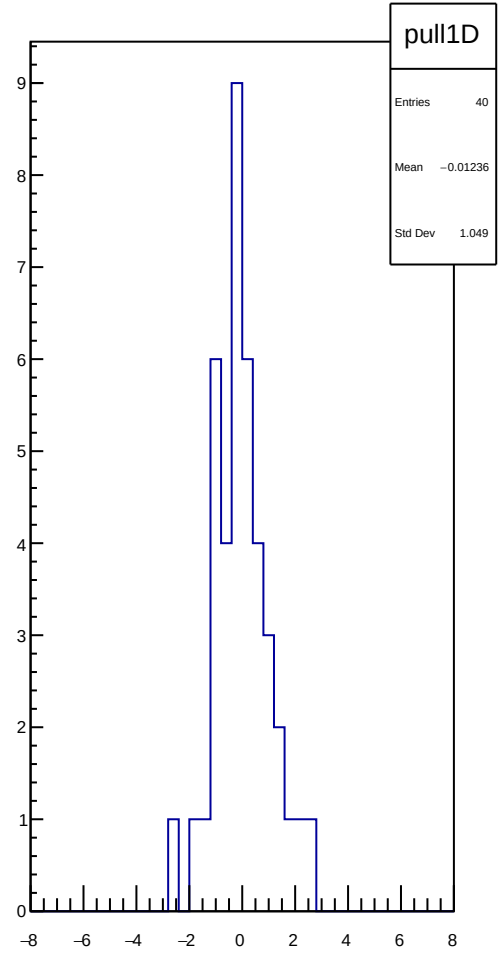

asym_atr1l2_avg_rms vs run
χ² / ndf 4434 / 39
p0 3464 ± 3.854
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

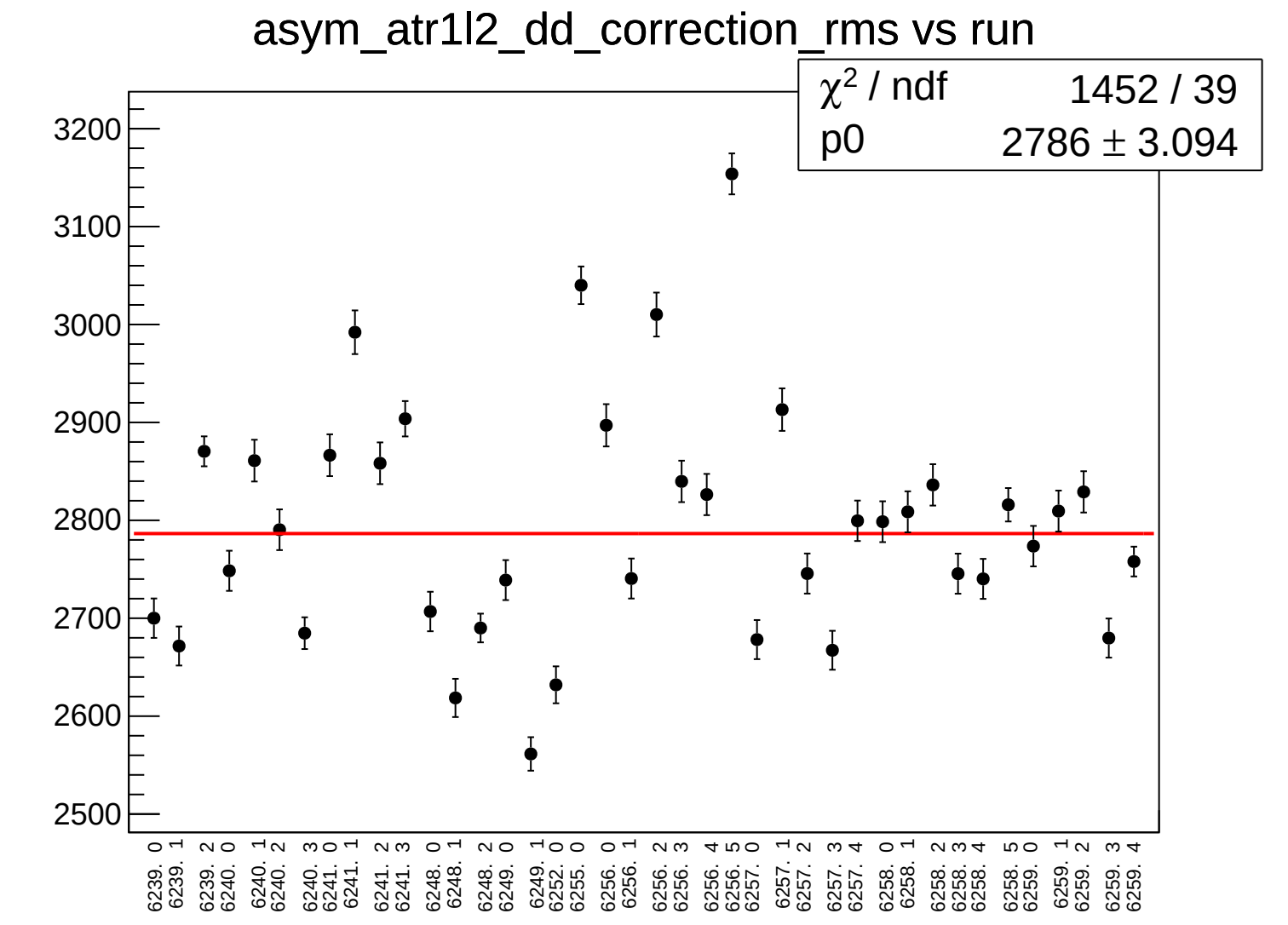

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 41.58 / 39
p0 2822 ± 2767
60000
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 606.1
Std Dev 587.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

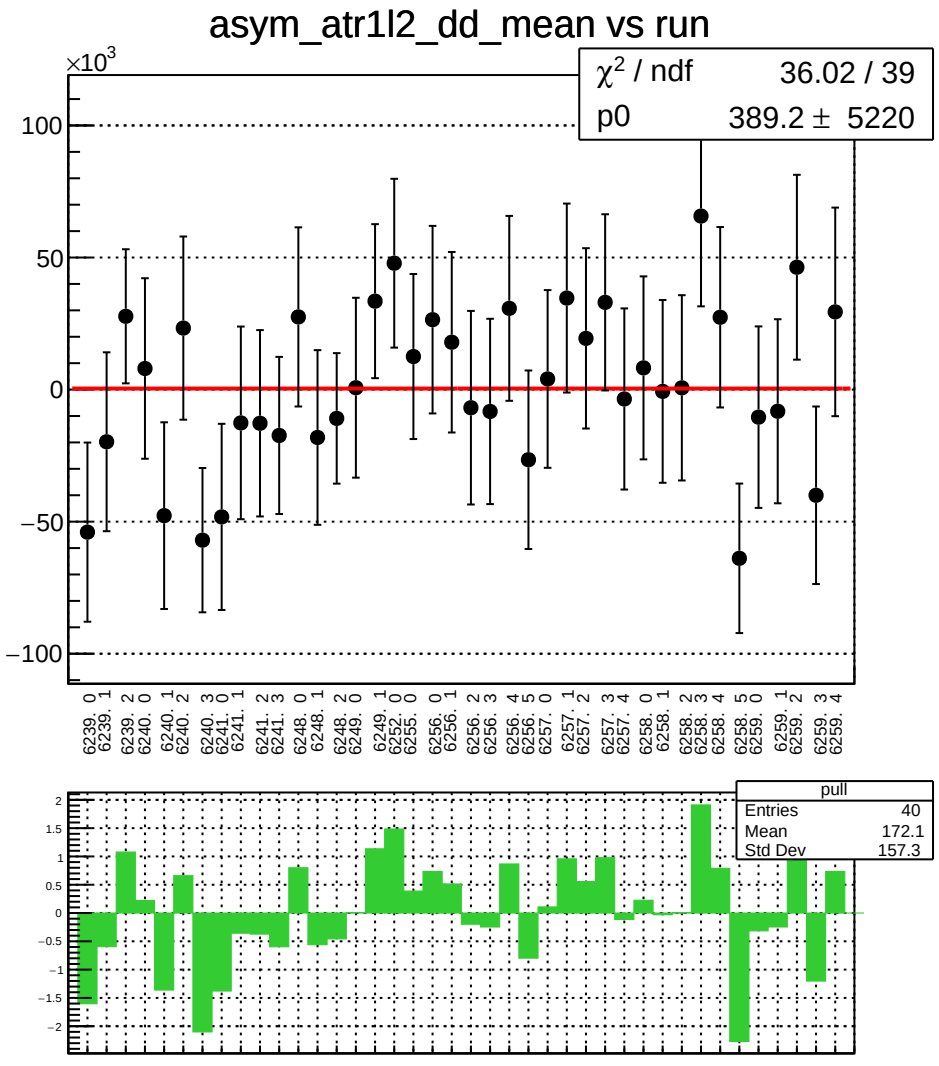

pull1D
Entries 40
Mean 0.005098
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

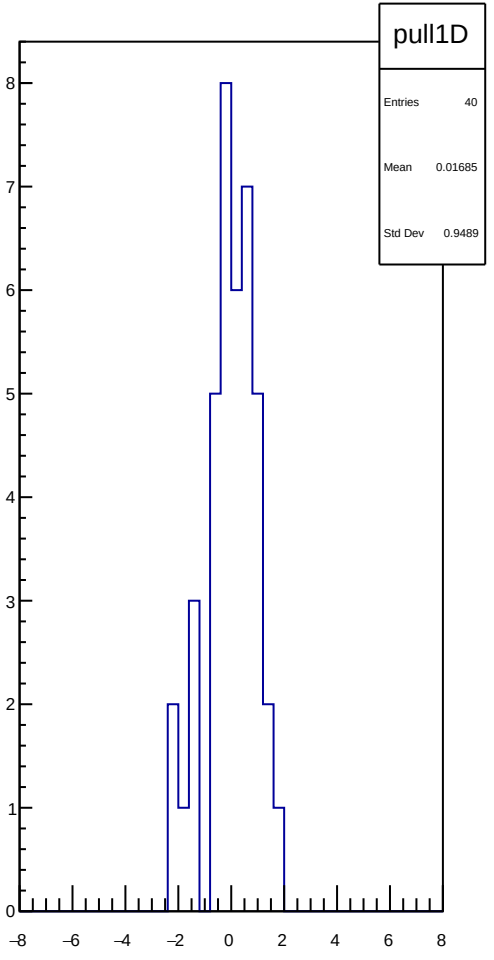

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.154e+04 / 39
p0 1751 ± 1.956
4500
4000
3500
3000
2500
2000
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

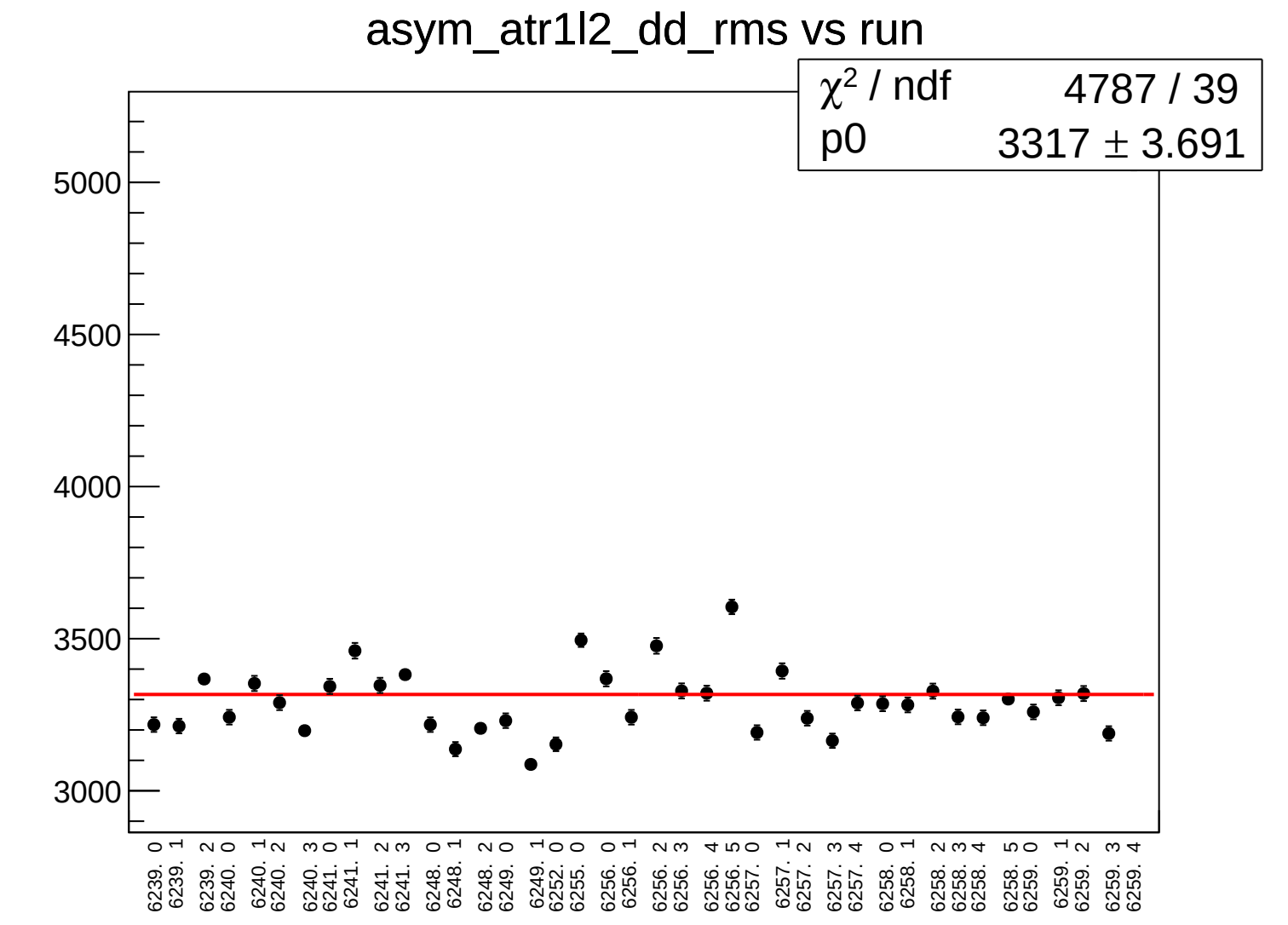

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 44.02 / 39
p0 2296 ± 4376
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 112.9
Std Dev 104.7
2
1
0
−1
−2

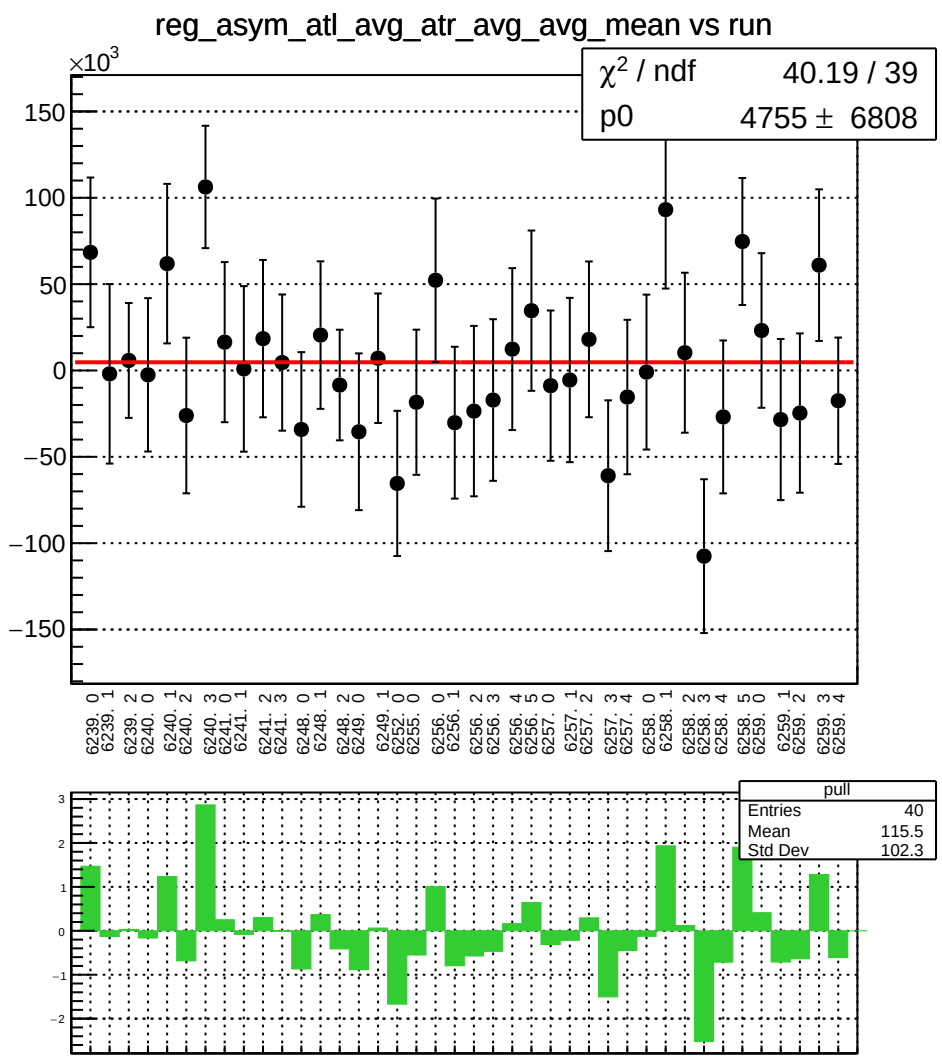

pull1D
Entries 40
Mean −0.01236
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

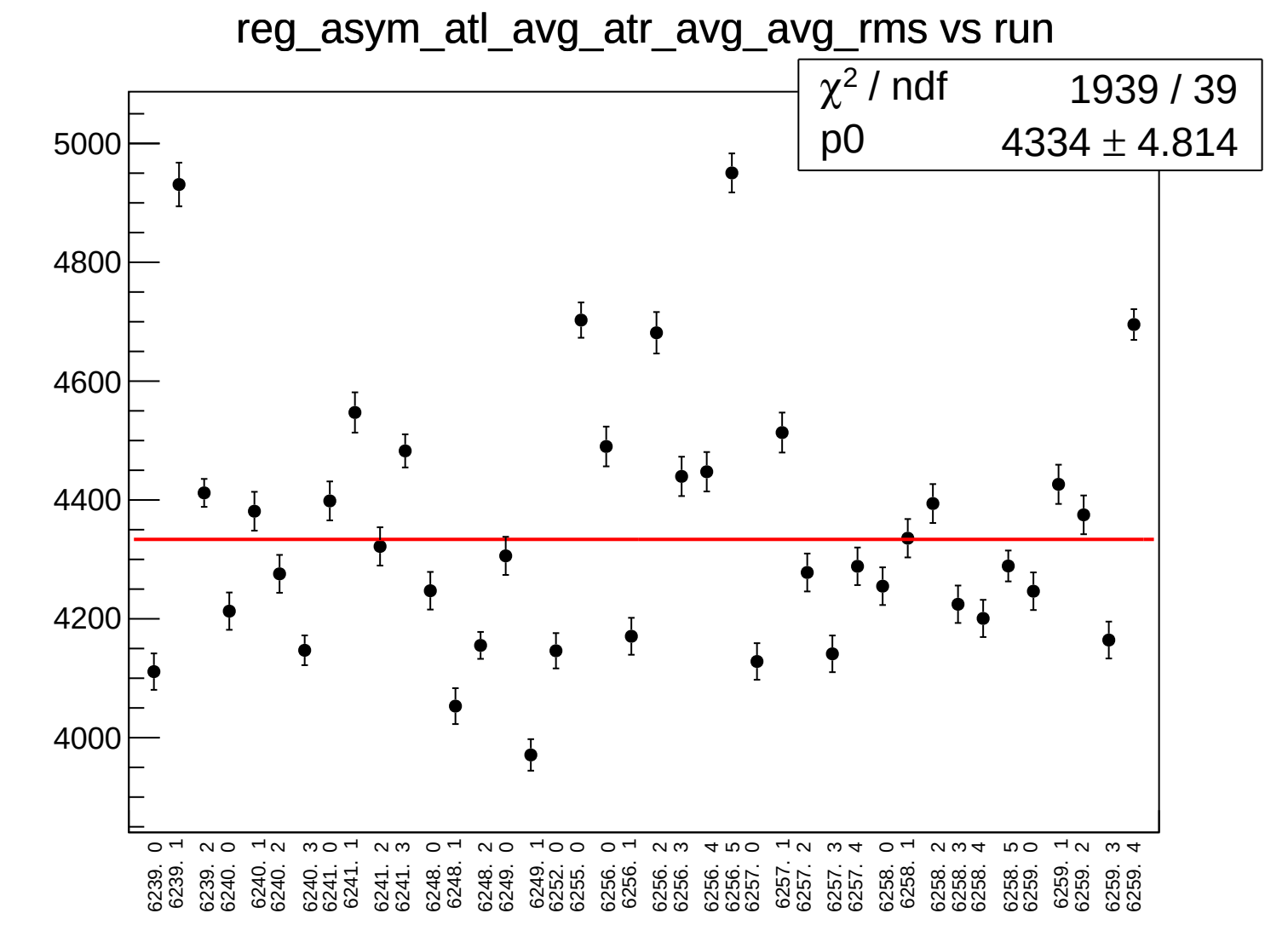

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1452 / 39
p0 2786 ± 3.094
3200
3100
3000
2900
2800
2700
2600
2500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 36.02 / 39
p0 389.2 ± 5220
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 172.1
Std Dev 157.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 40
Mean 0.01685
Std Dev 0.9489
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 4787 / 39
p0 3317 ± 3.691
5000
4500
4000
3500
3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 40.19 / 39
p0 4755 ± 6808
150
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 115.5
Std Dev 102.3
3
2
1
0
−1
−2
pull1D
Entries 40
Mean −0.01867
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1939 / 39
p0 4334 ± 4.814
5000
4800
4600
4400
4200
4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
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6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
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6258. 3
6258. 4
6258. 5
6259. 0
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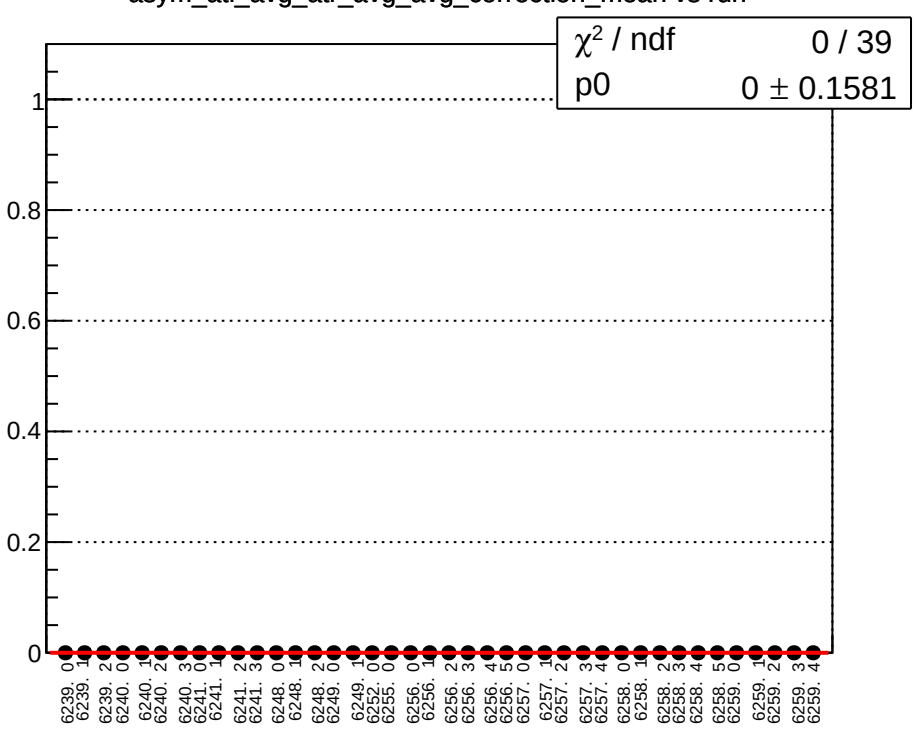
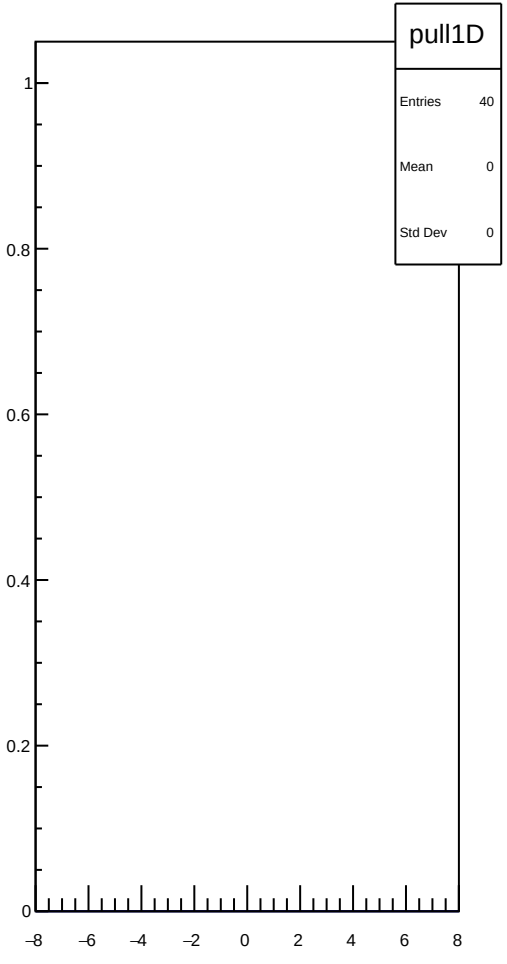
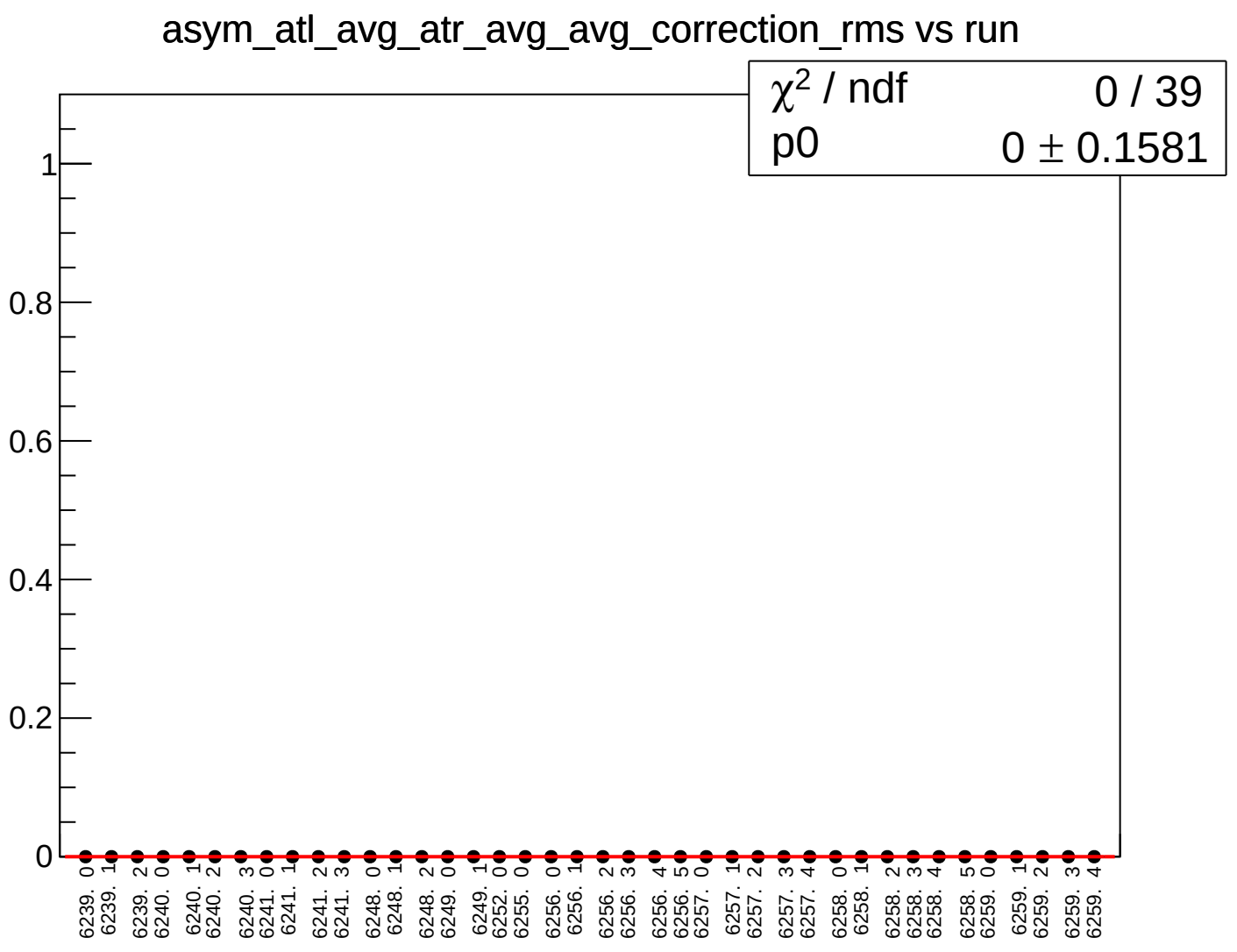
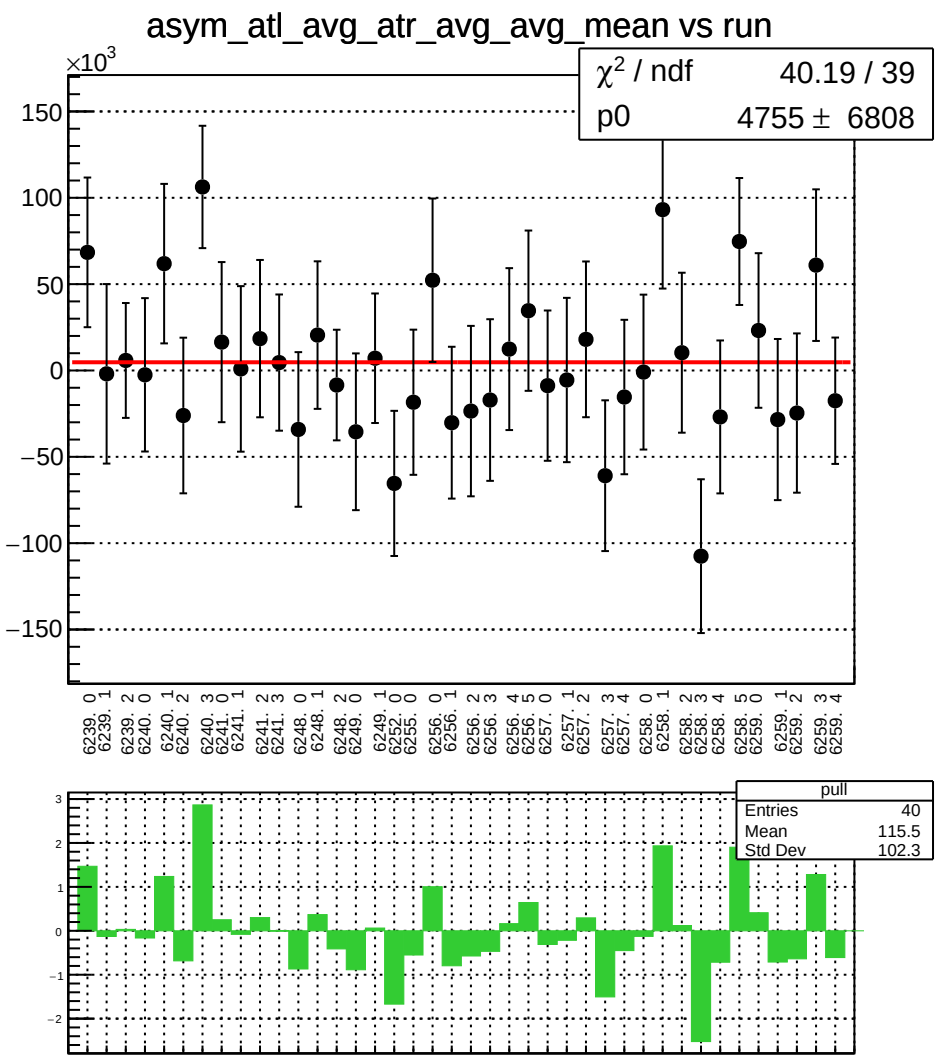
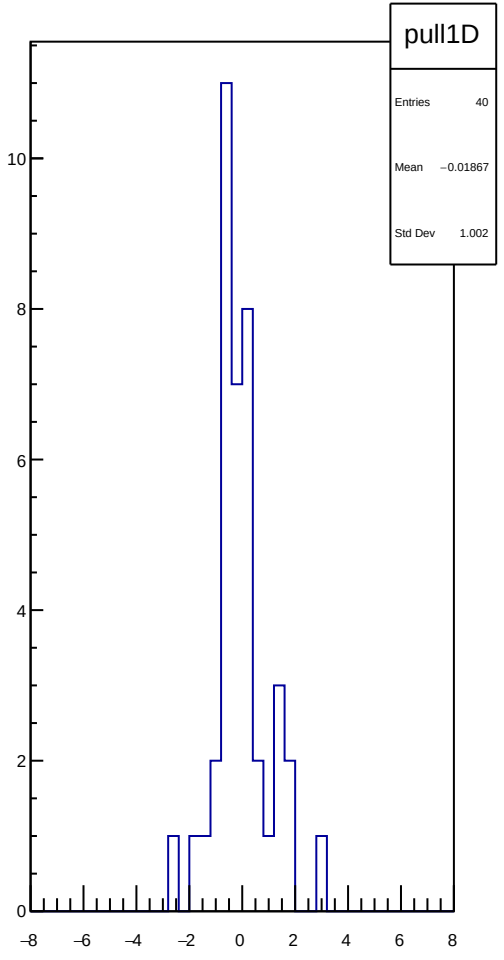
6259. 2
6259. 3
6259. 4

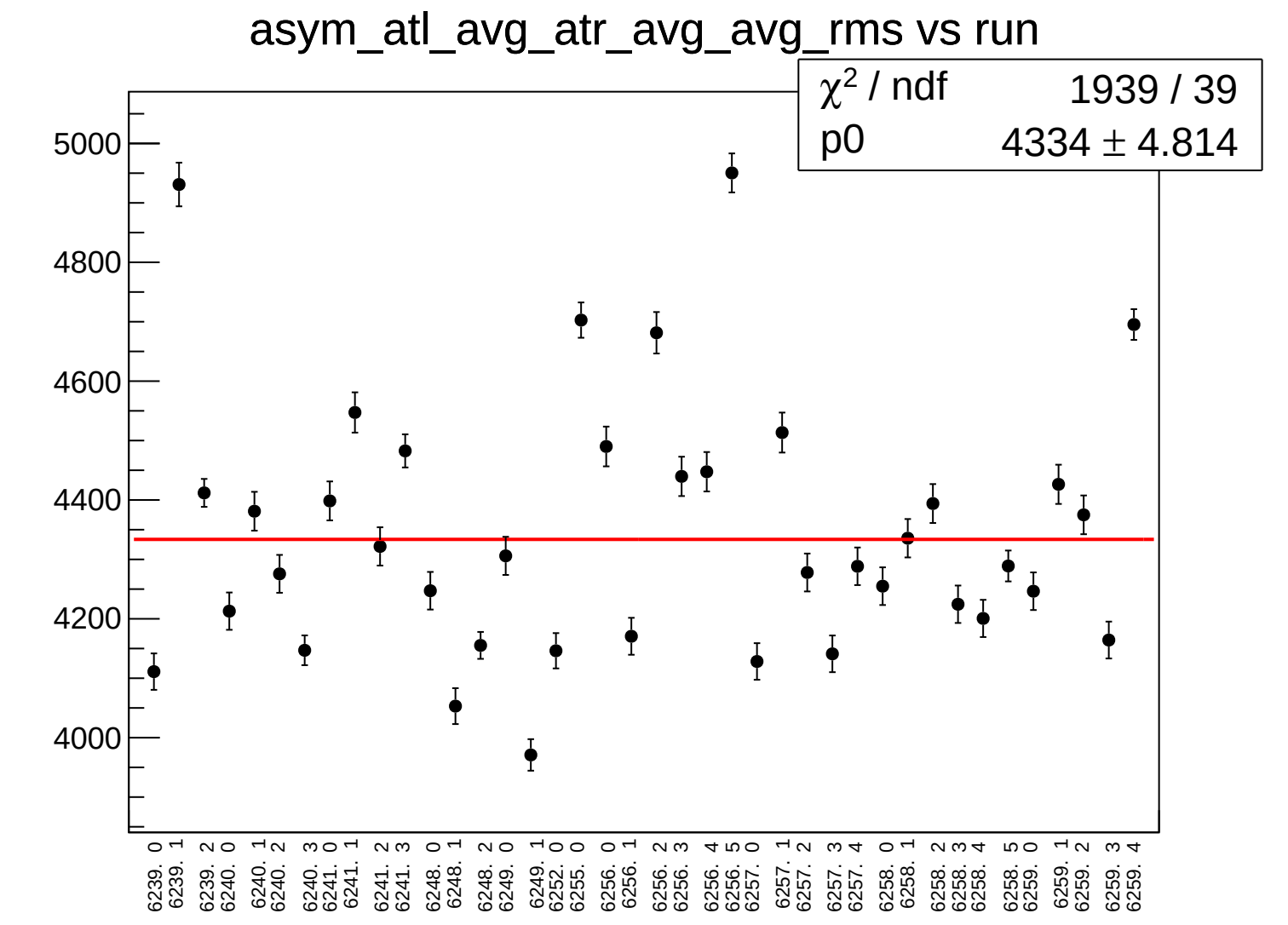

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 40.19 / 39
p0 4755 ± 6808
150
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 115.5
Std Dev 102.3
3
2
1
0
−1
−2


pull1D
Entries 40
Mean −0.01867
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1939 / 39
p0 4334 ± 4.814
5000
4800
4600
4400
4200
4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
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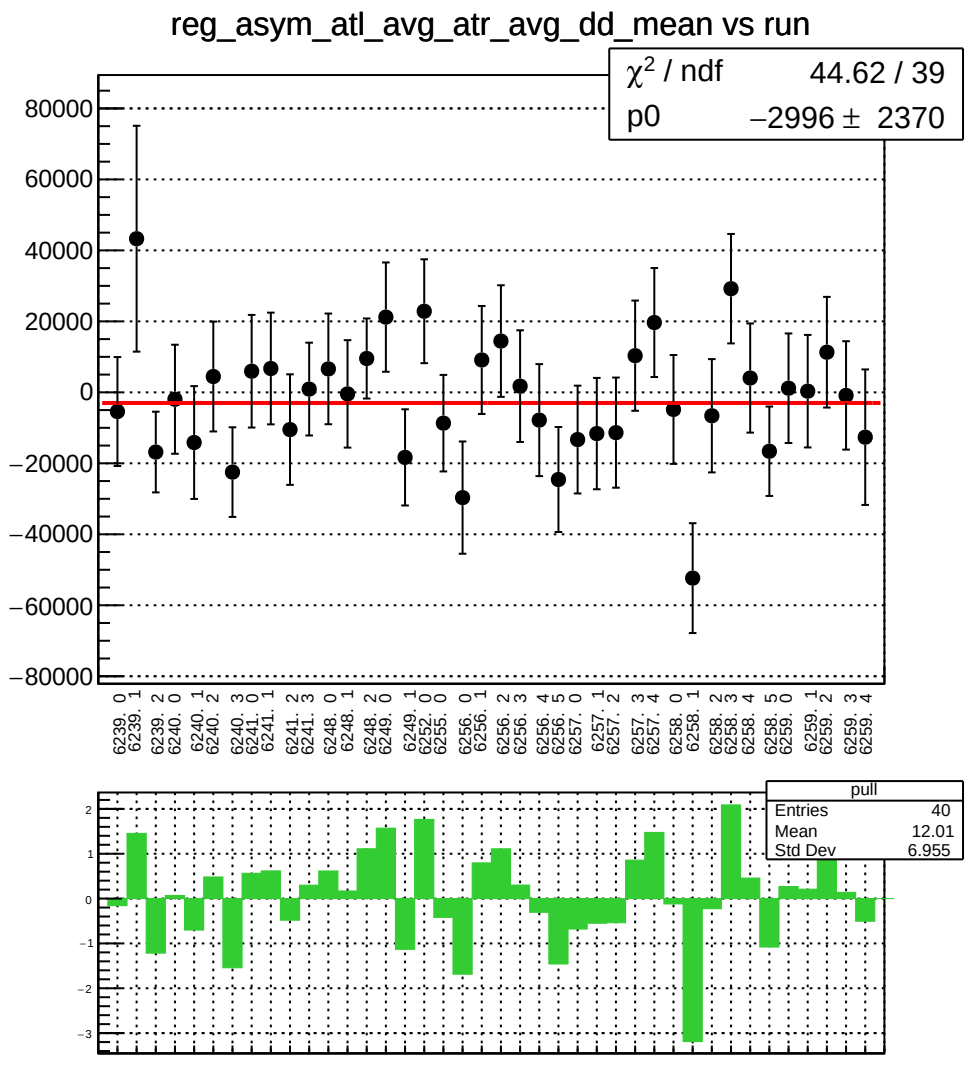
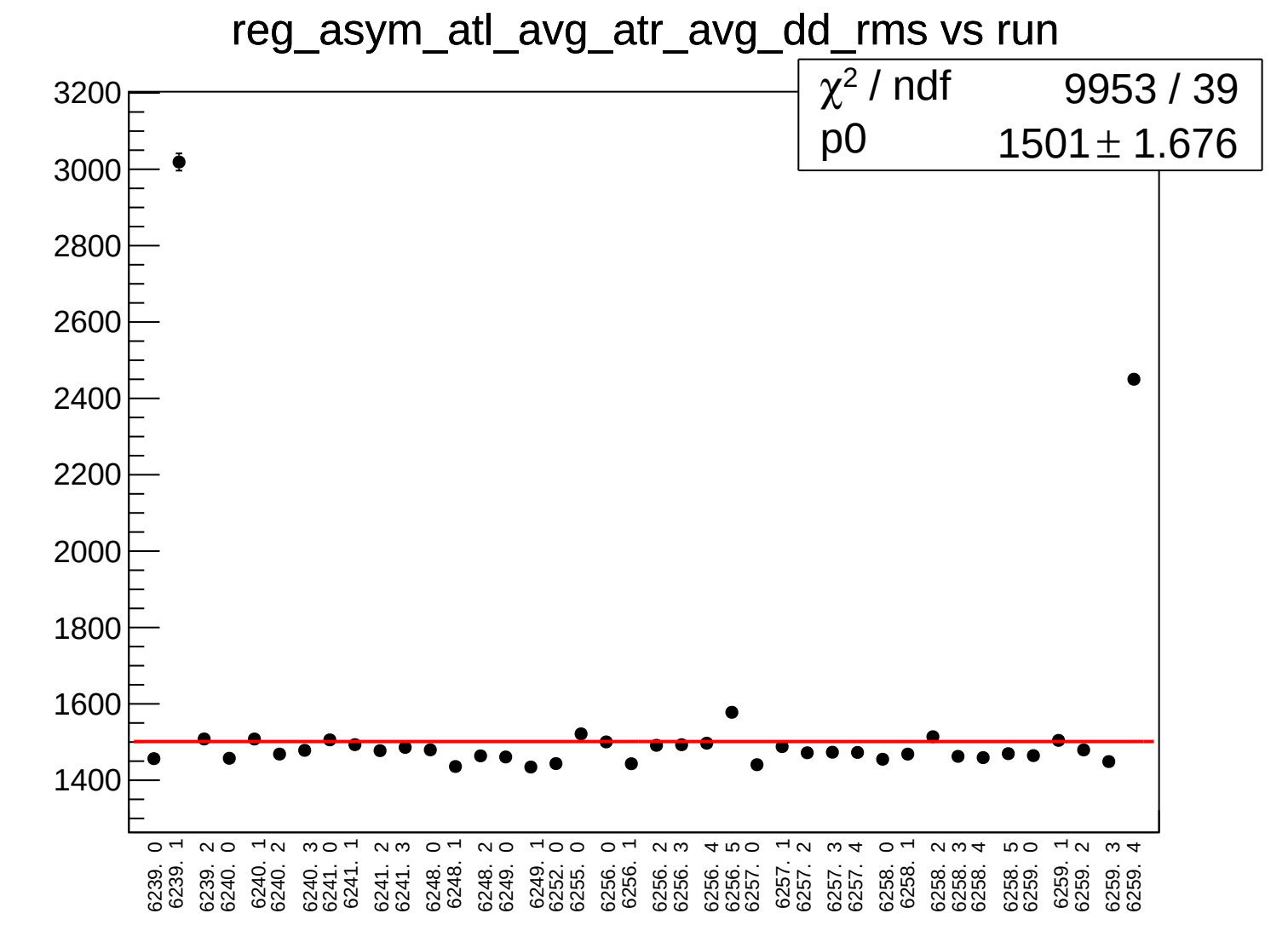
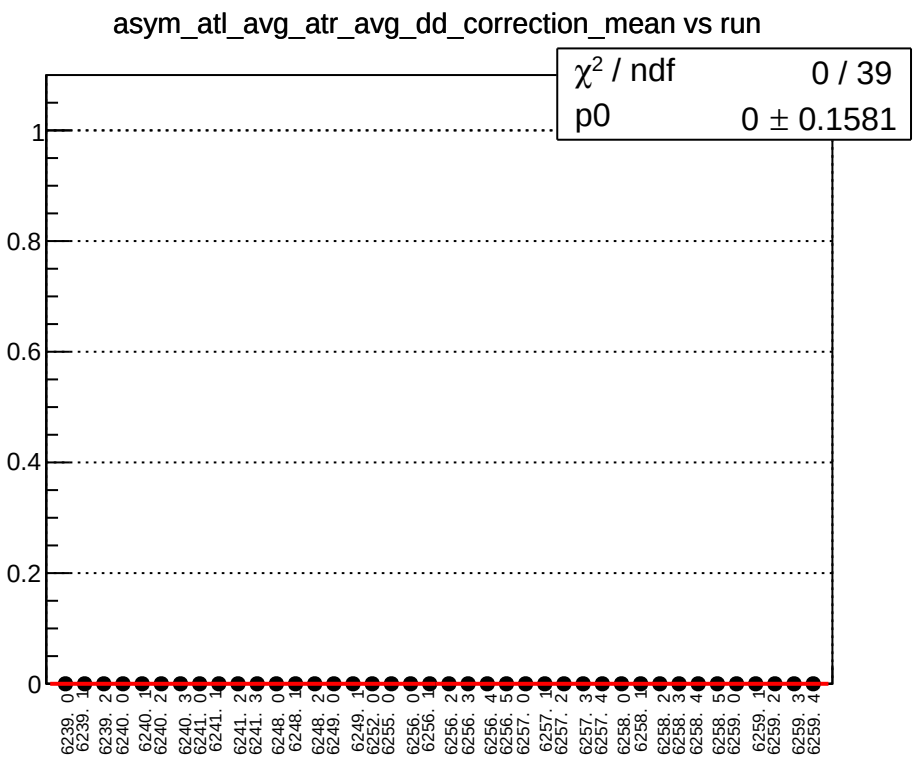
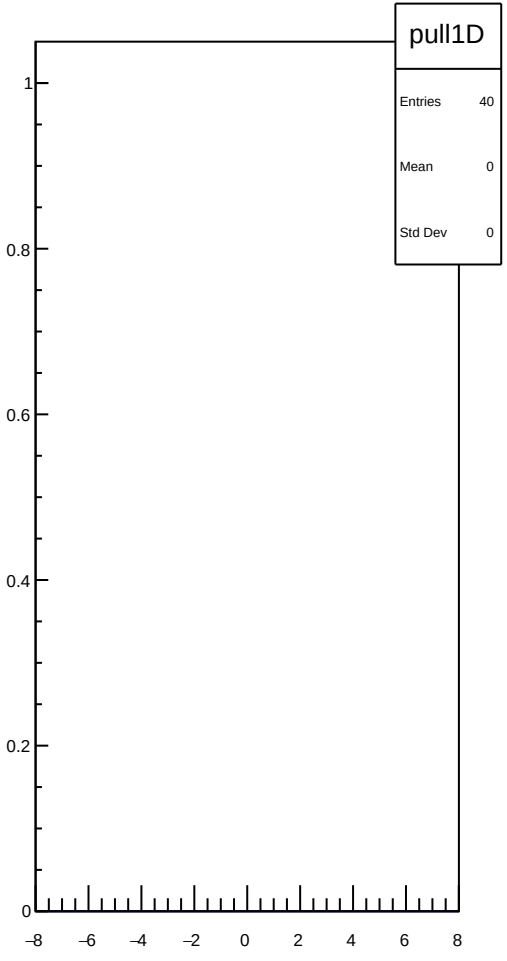
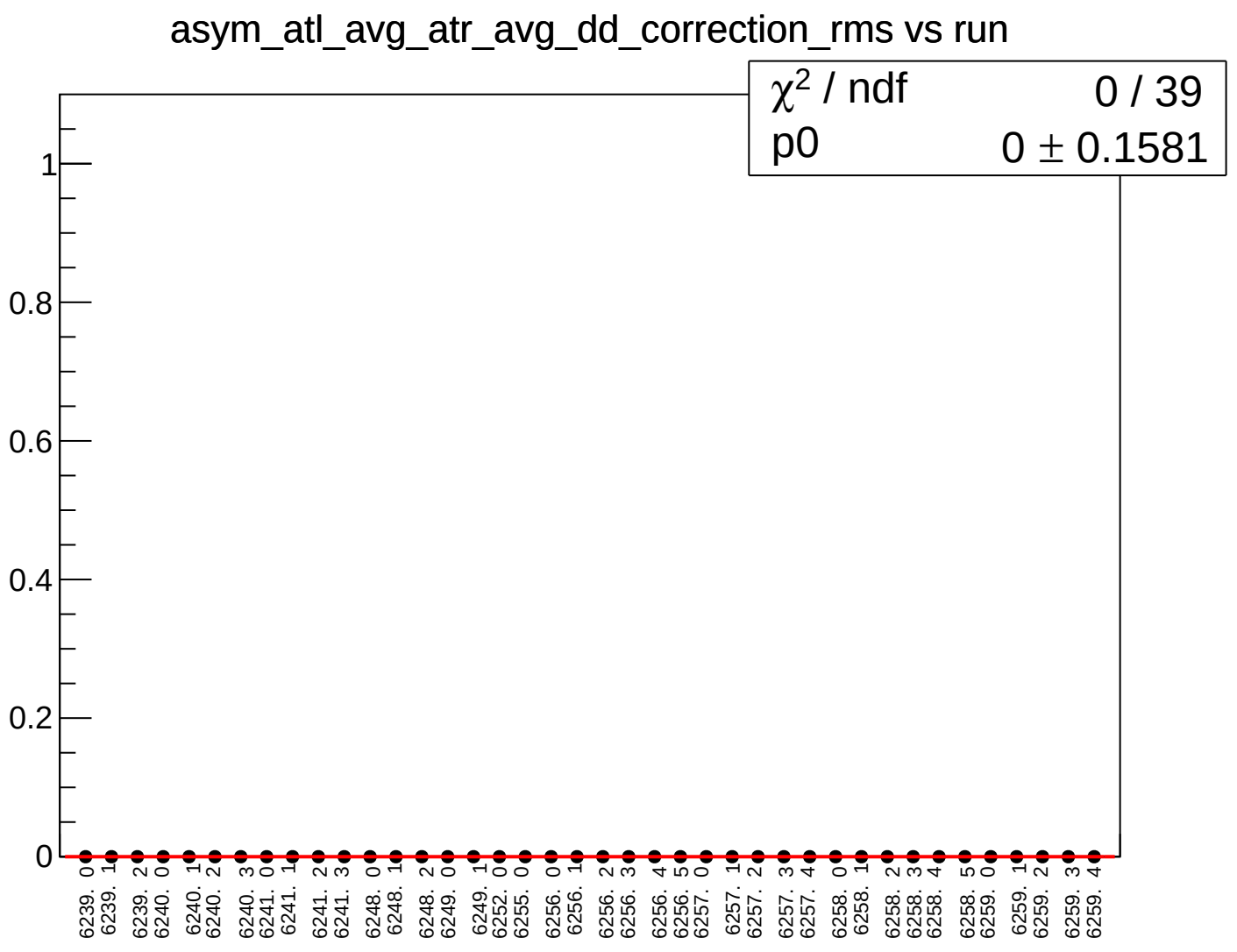
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.62 / 39
p0 −2996 ± 2370
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 12.01
Std Dev 6.955
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean 0.03384
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 9953 / 39
p0 1501 ± 1.676
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
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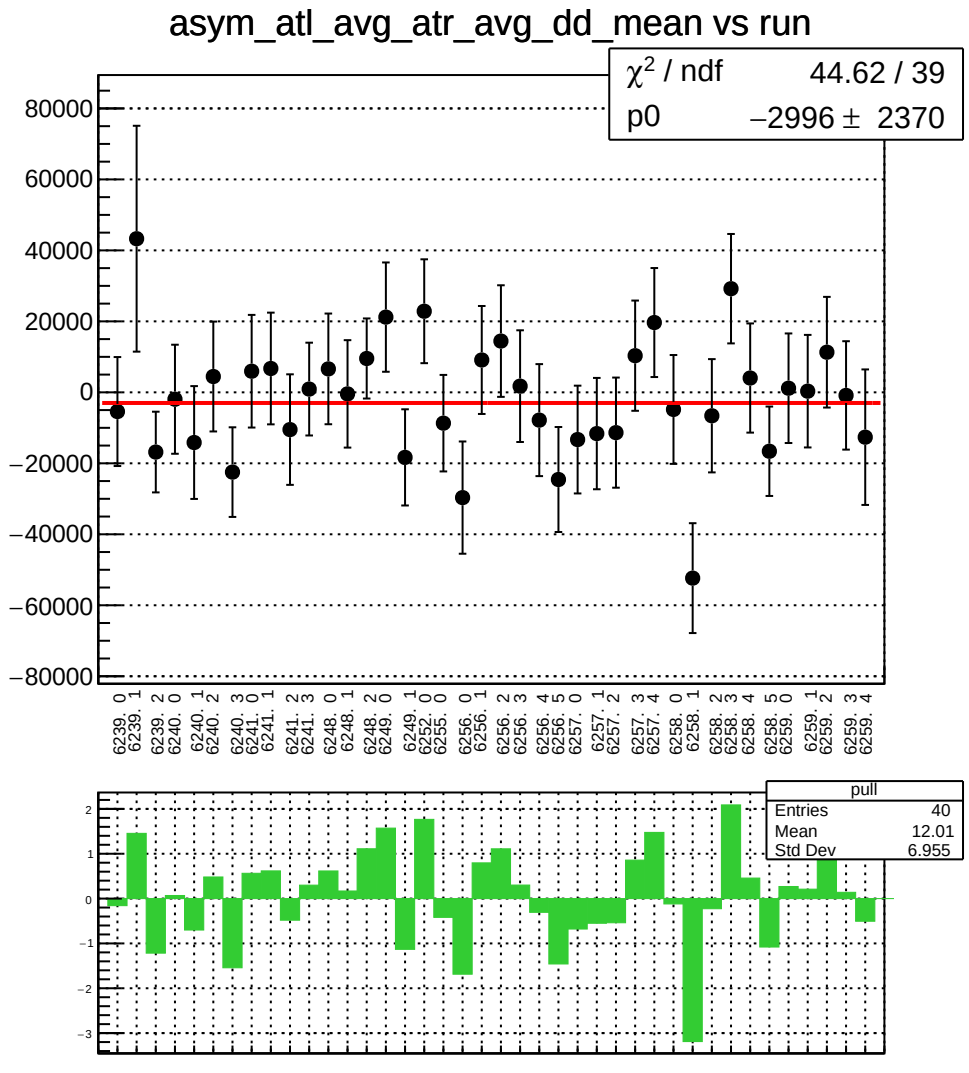
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.62 / 39
p0 −2996 ± 2370
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
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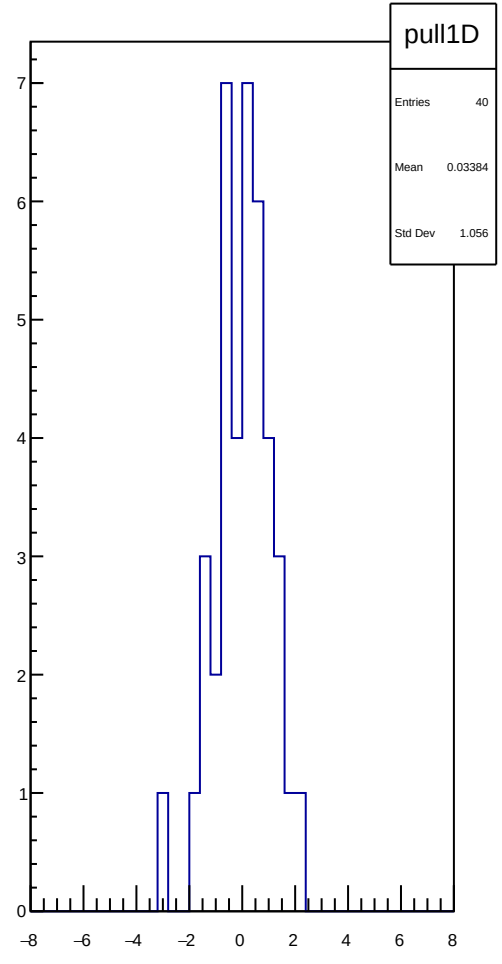
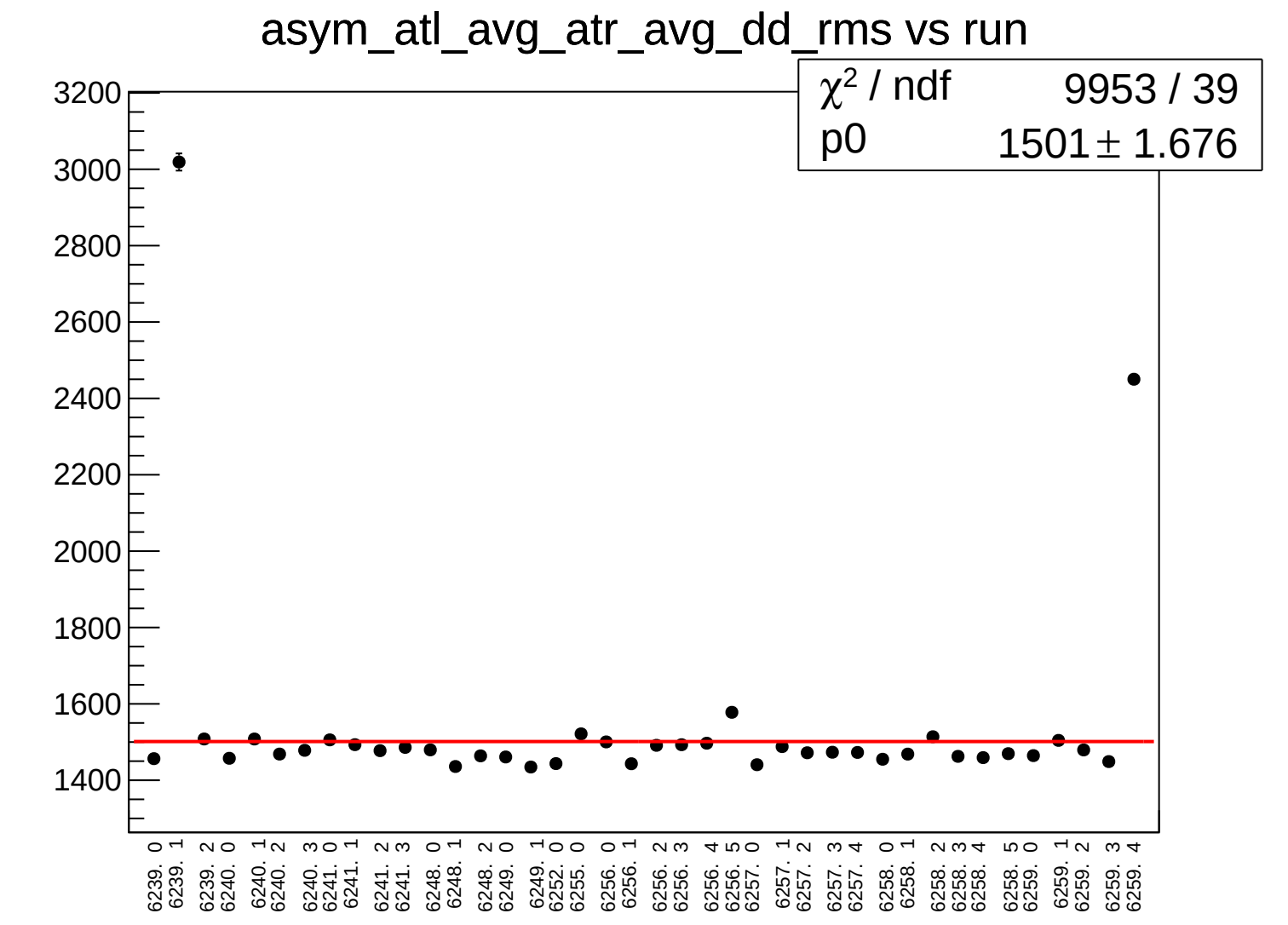
6259. 4
pull
Entries 40
Mean 12.01
Std Dev 6.955
2
1
0
−1
−2
−3


pull1D
Entries 40
Mean 0.03384
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 9953 / 39
p0 1501 ± 1.676
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
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6258. 0
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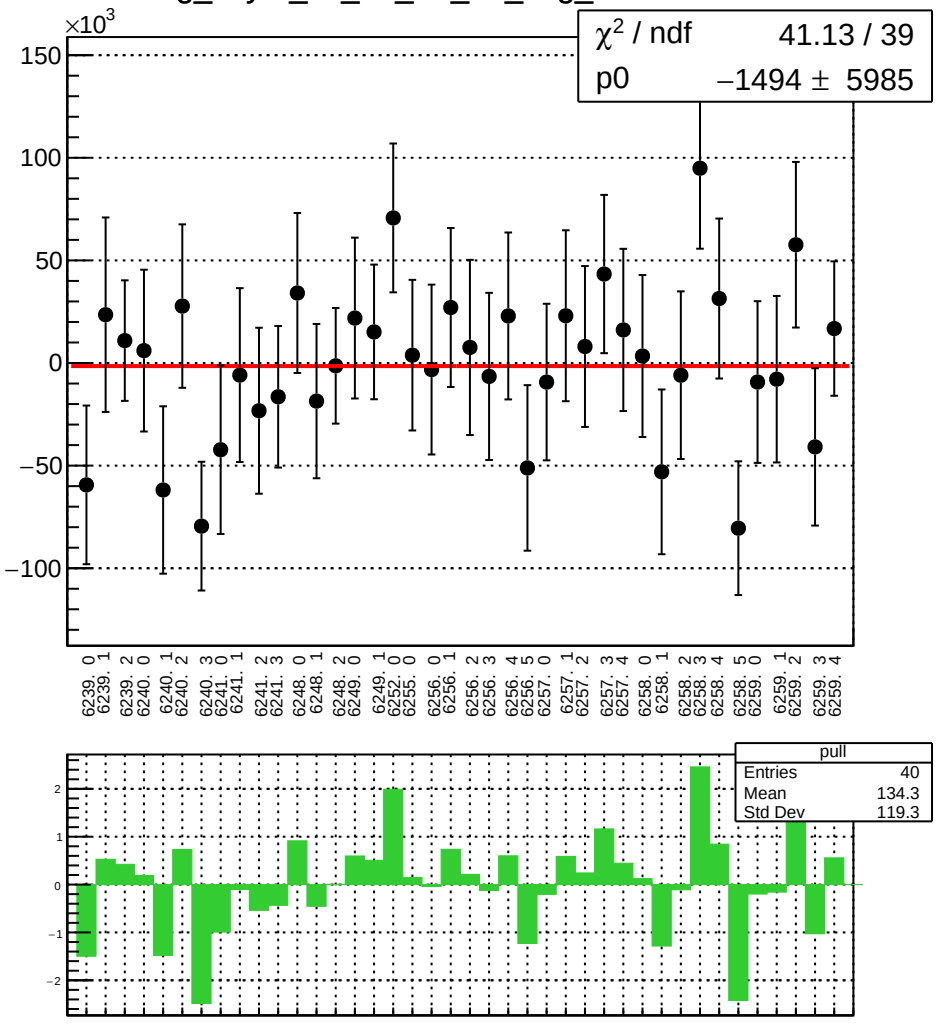
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 41.13 / 39
p0 −1494 ± 5985
150
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
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6248. 2
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6249. 1
6252. 0
6255. 0
6256. 0
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6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
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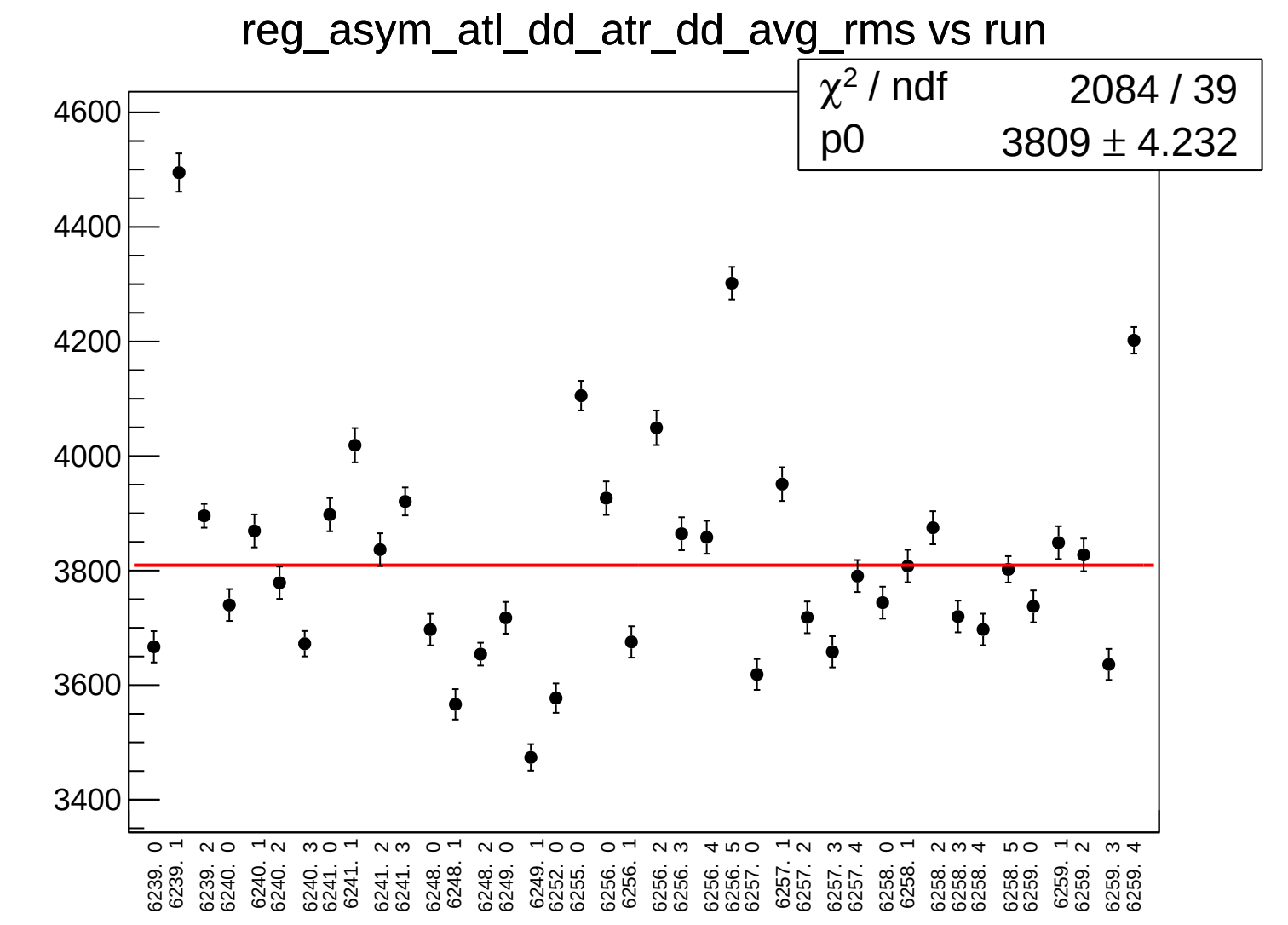
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 134.3
Std Dev 119.3
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.01736
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2084 / 39
p0 3809 ± 4.232
4600
4400
4200
4000
3800
3600
3400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
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6258. 4
6258. 5
6259. 0
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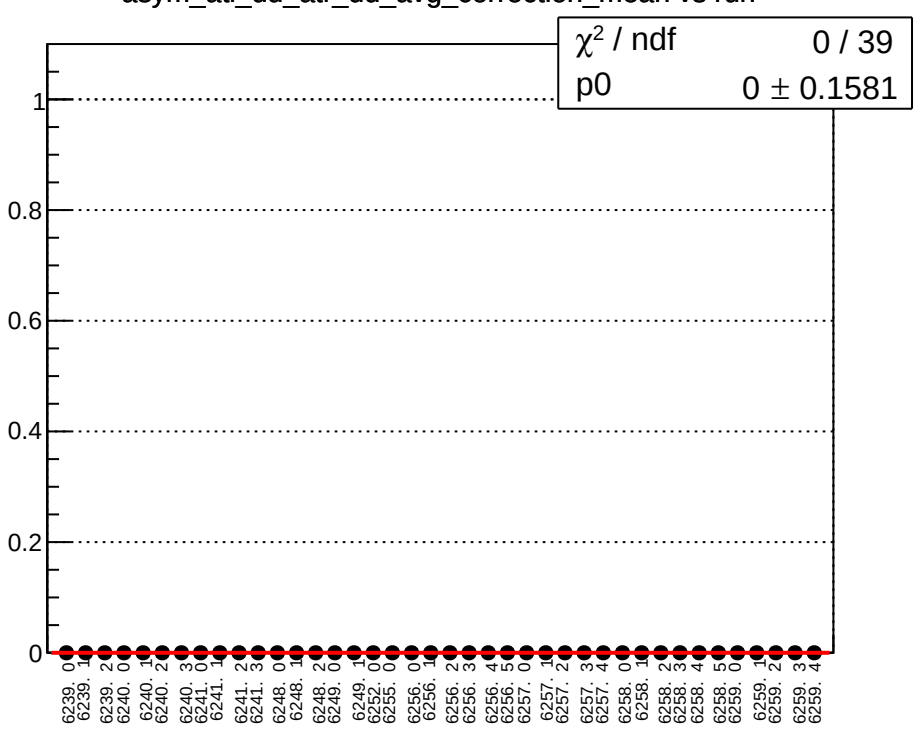
6259. 3
6259. 4


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
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6255. 0
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6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
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6258. 3
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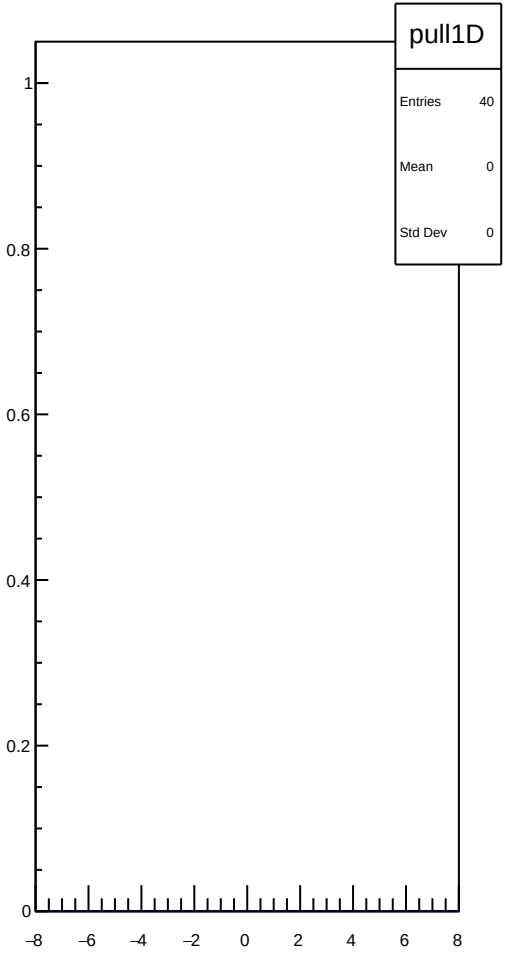
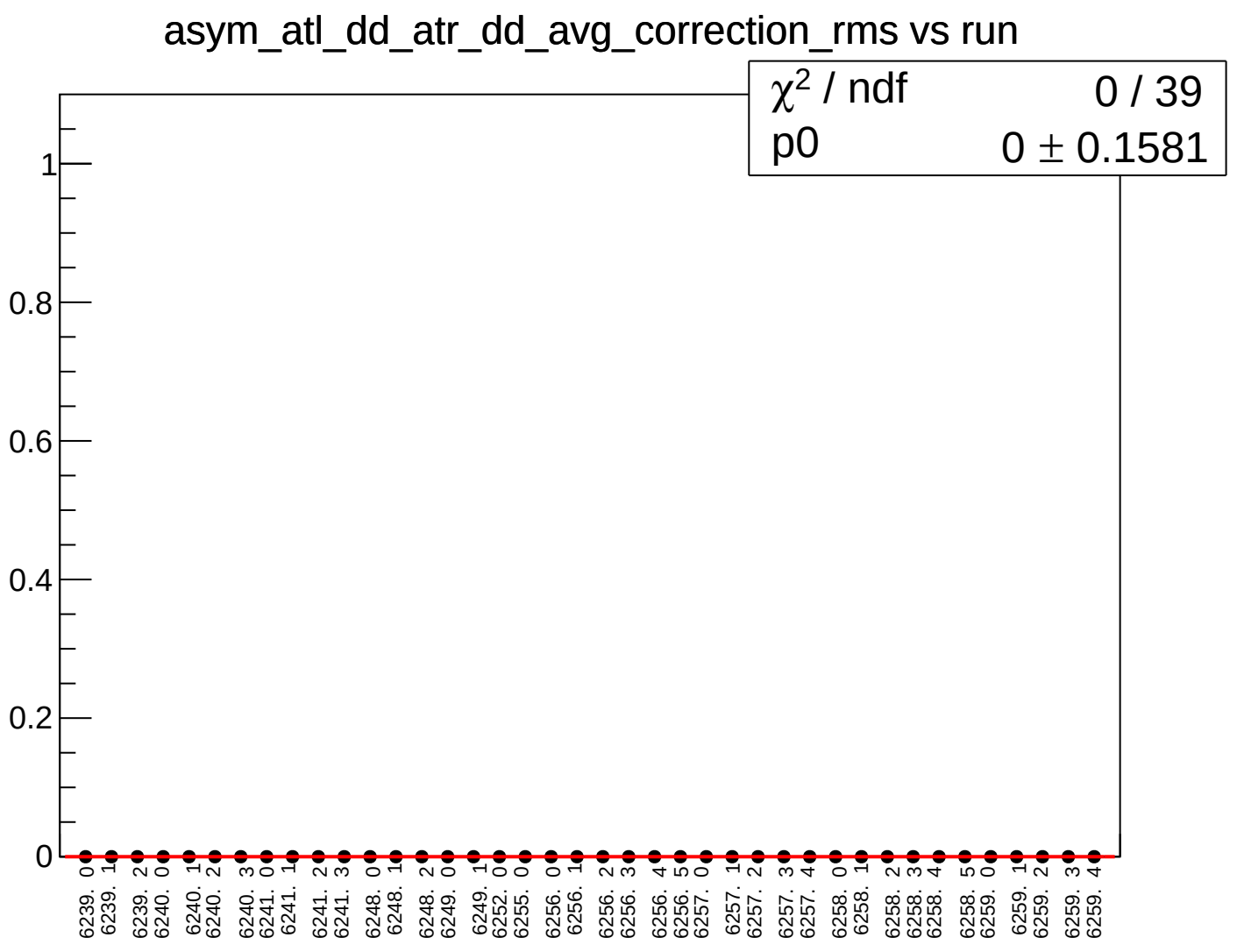

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
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6256. 1
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6257. 4
6258. 0
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6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
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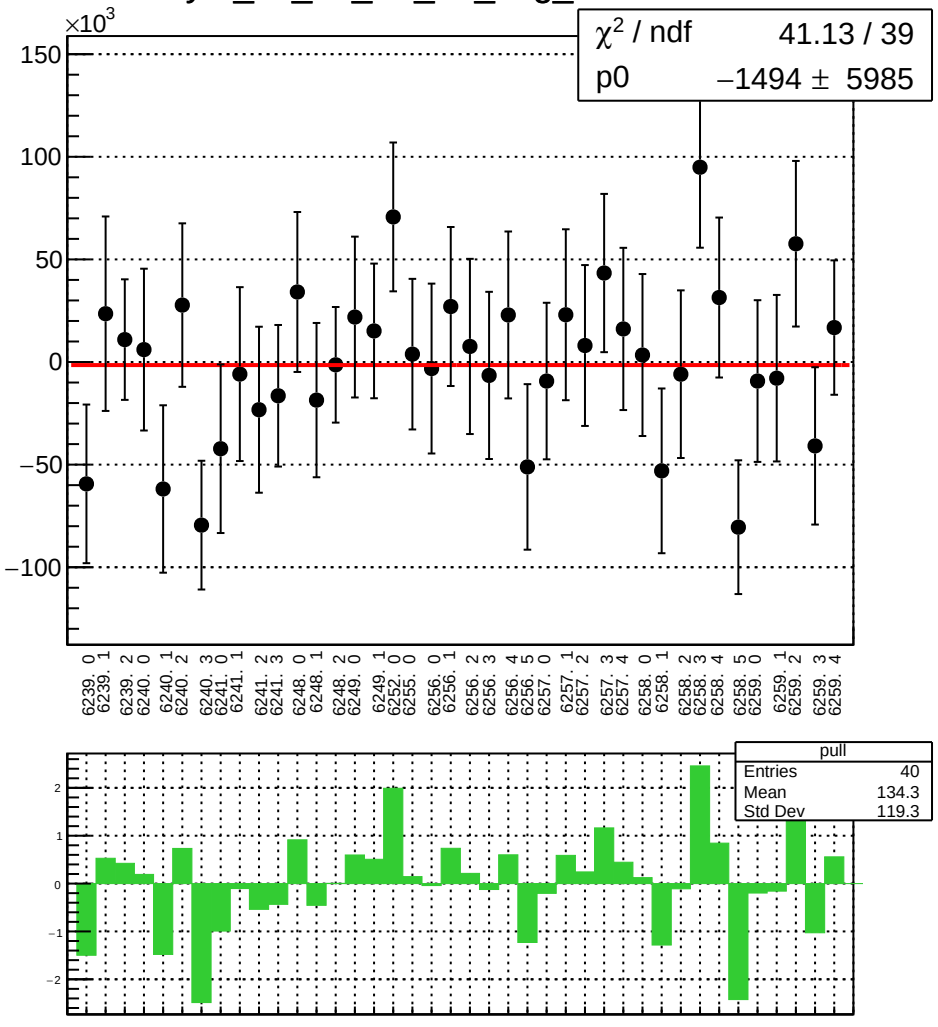
6259. 4


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 41.13 / 39
p0 −1494 ± 5985
150
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
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6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 134.3
Std Dev 119.3
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.01736
Std Dev 1.014
10
8
6
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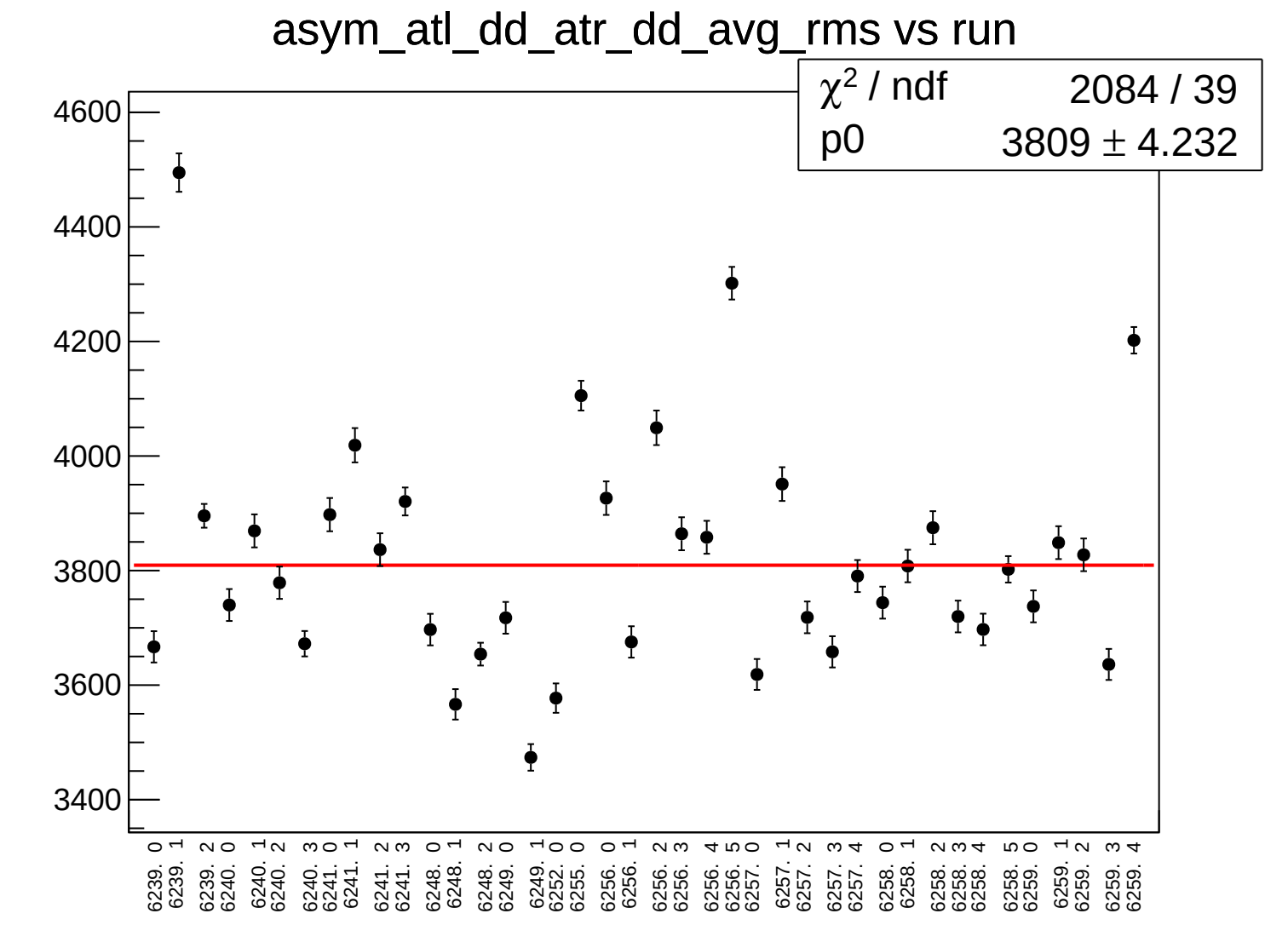
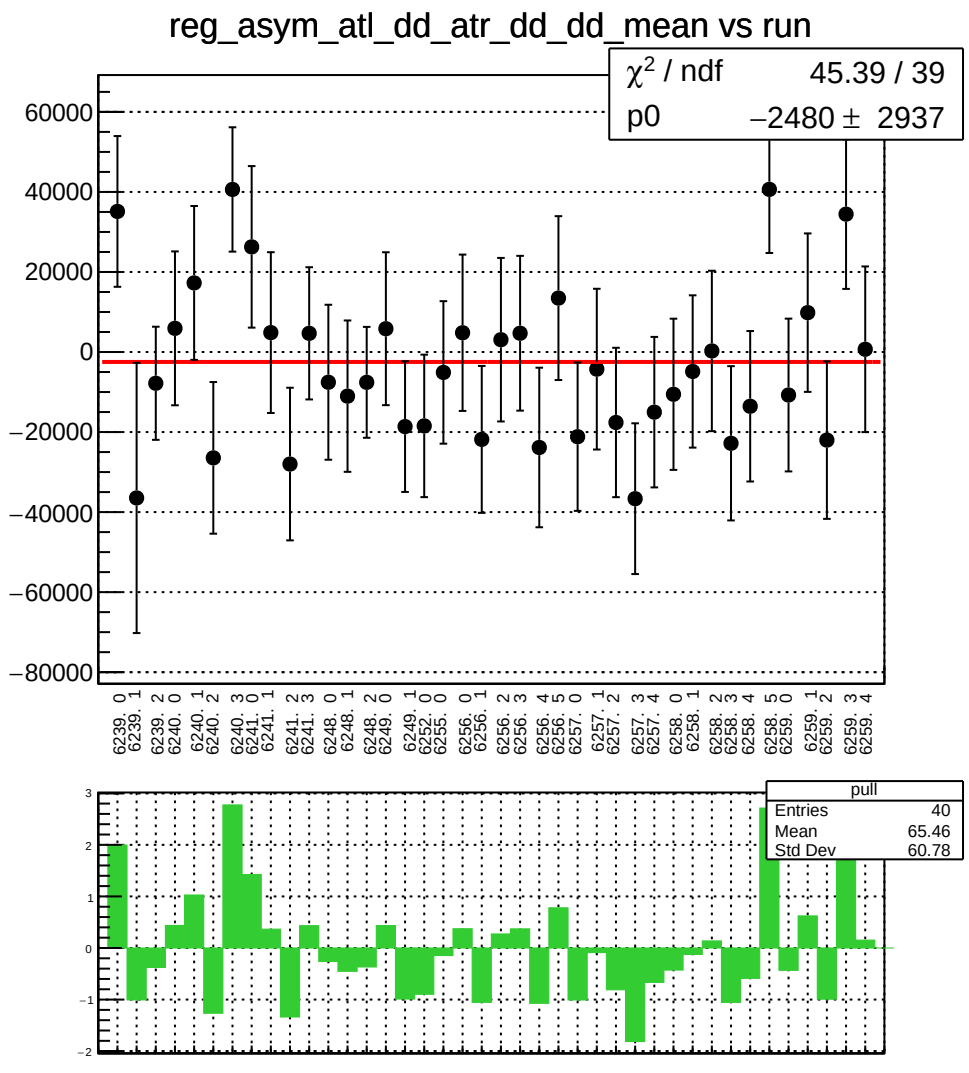
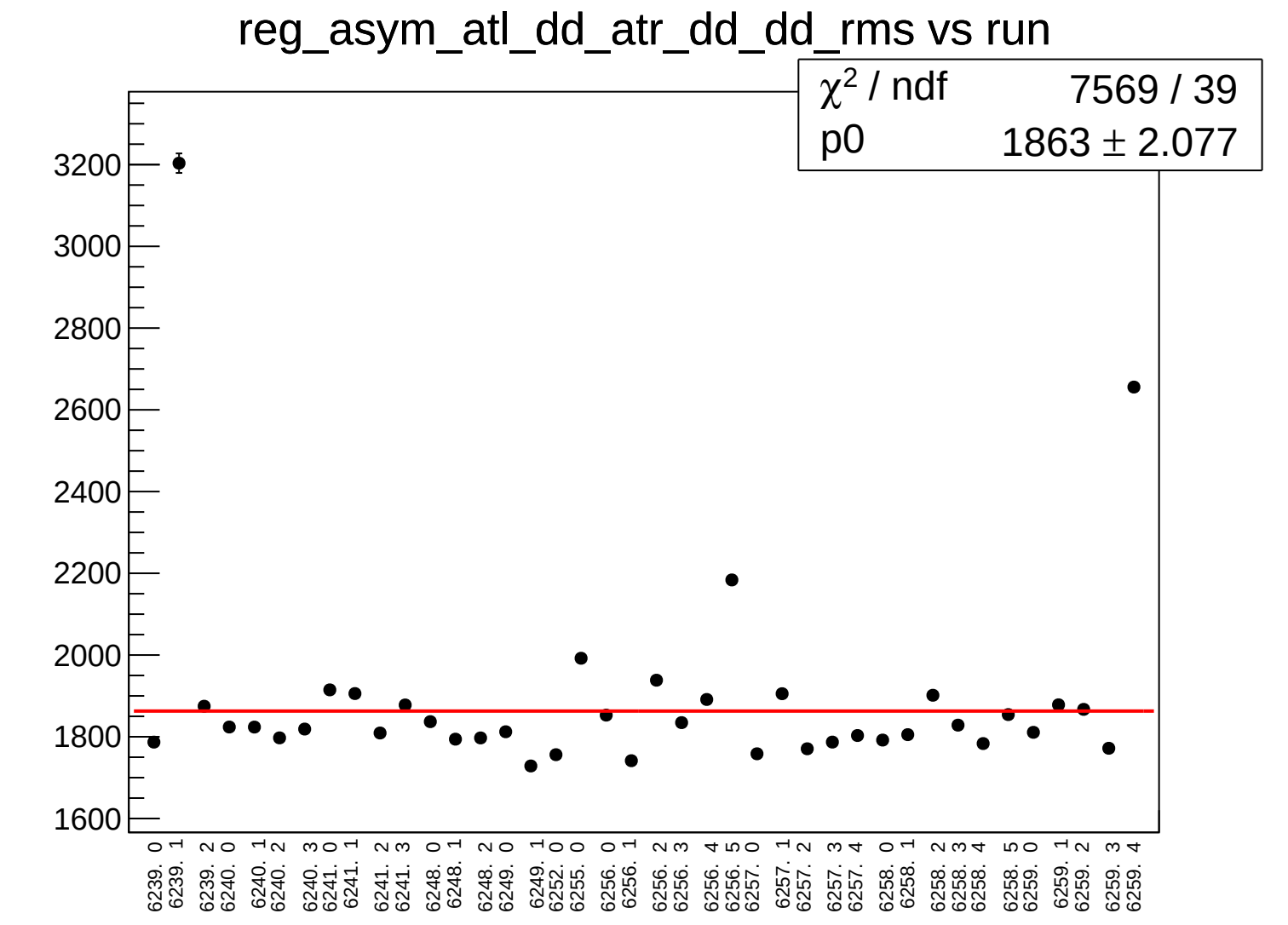
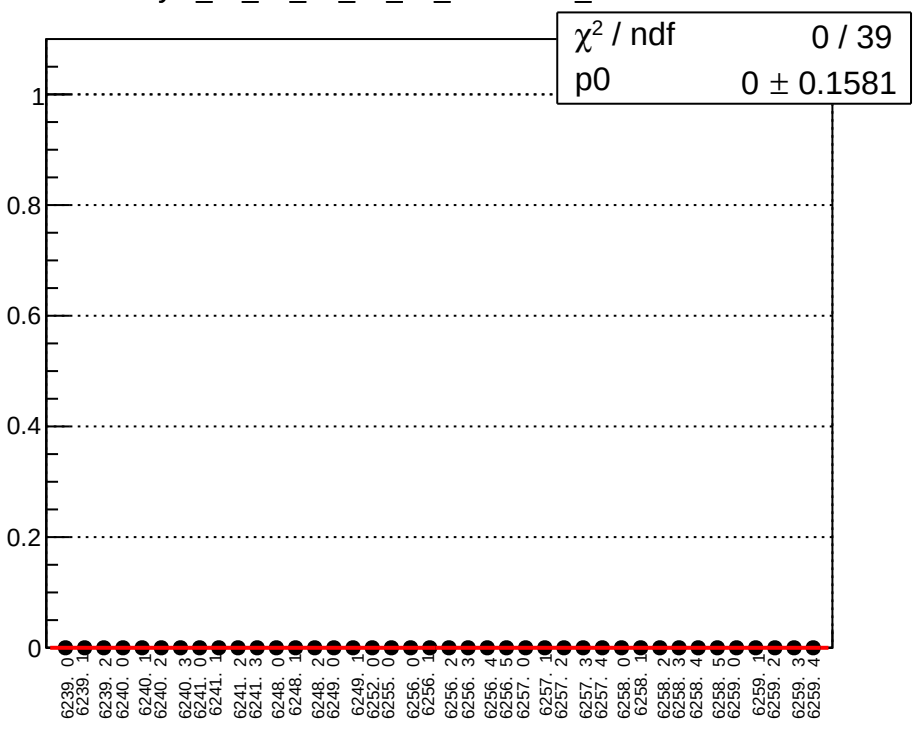
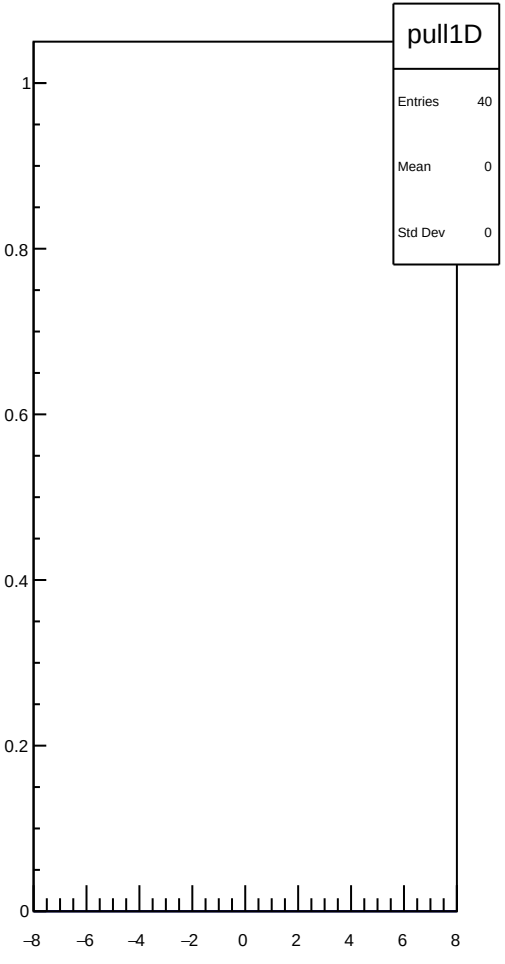
−8
−6
−4
−2
0
2
4
6
8

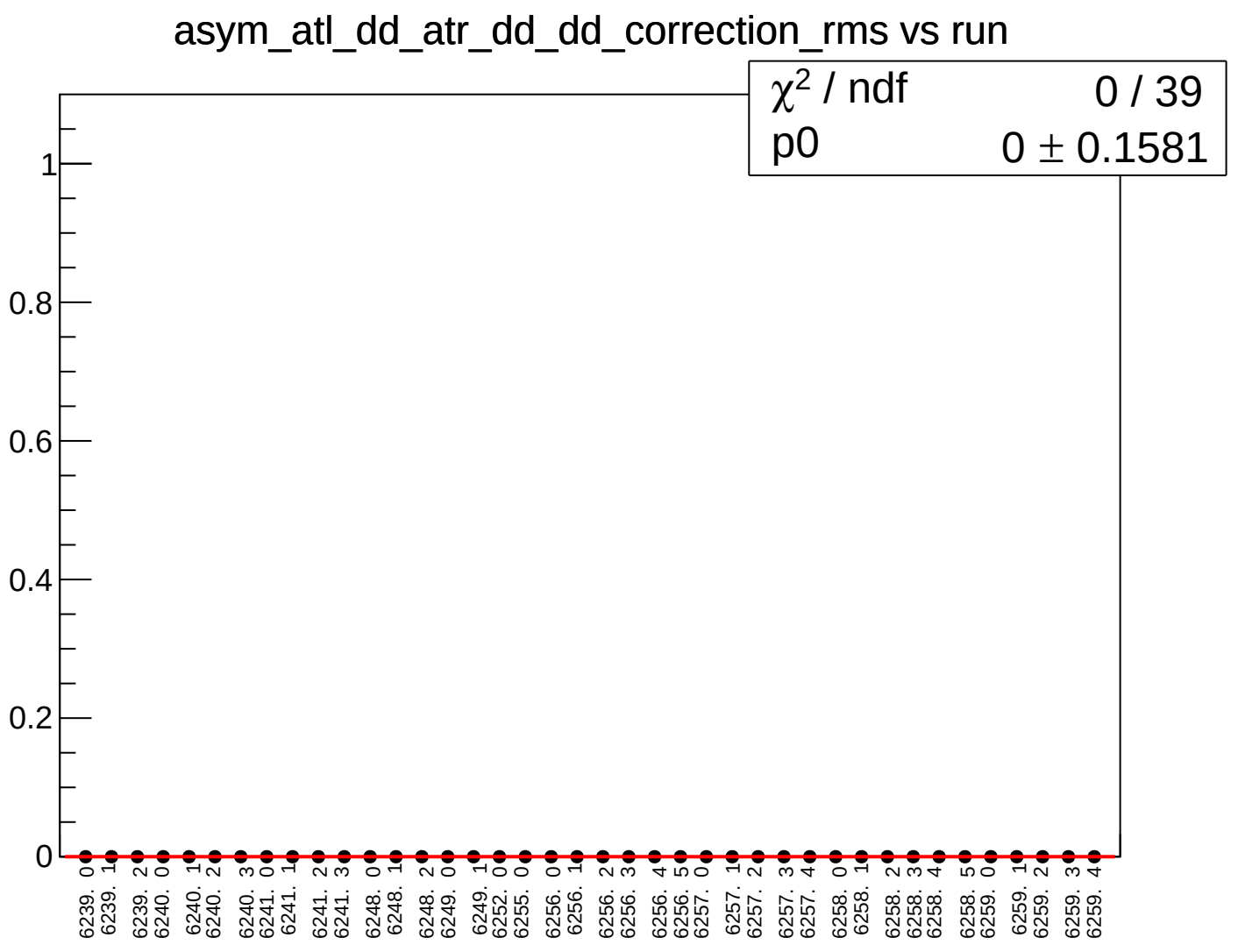

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2084 / 39
p0 3809 ± 4.232
4600
4400
4200
4000
3800
3600
3400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

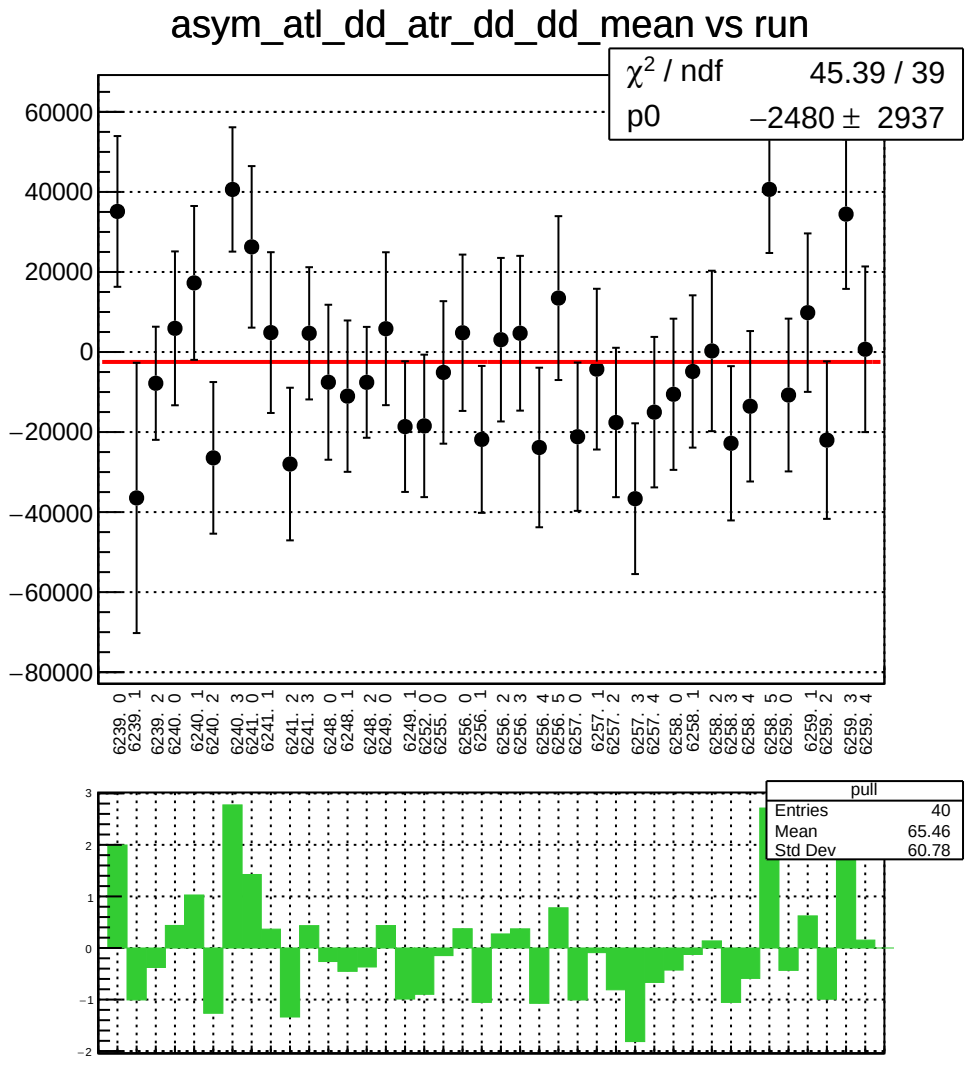

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 45.39 / 39
p0 −2480 ± 2937
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 65.46
Std Dev 60.78
3
2
1
0
−1
−2
pull1D
Entries 40
Mean −0.02374
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

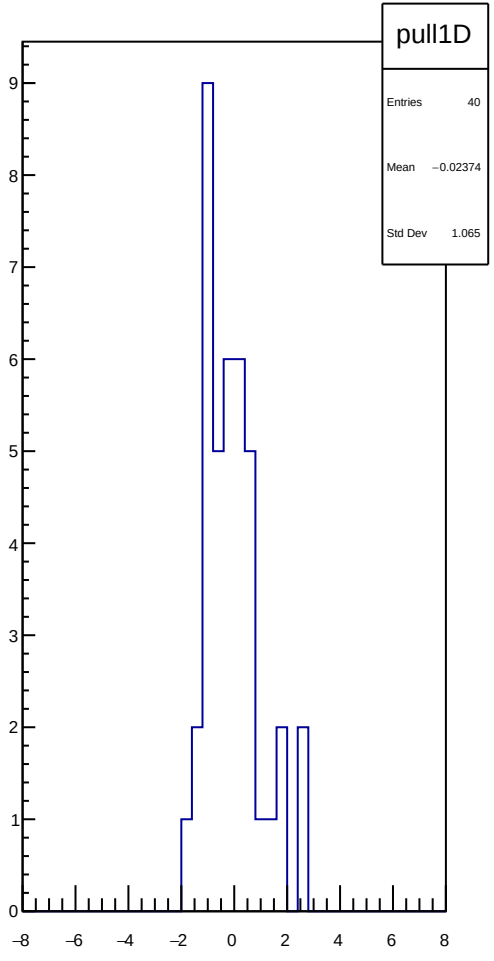

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7569 / 39
p0 1863 ± 2.077
3200
3000
2800
2600
2400
2200
2000
1800
1600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

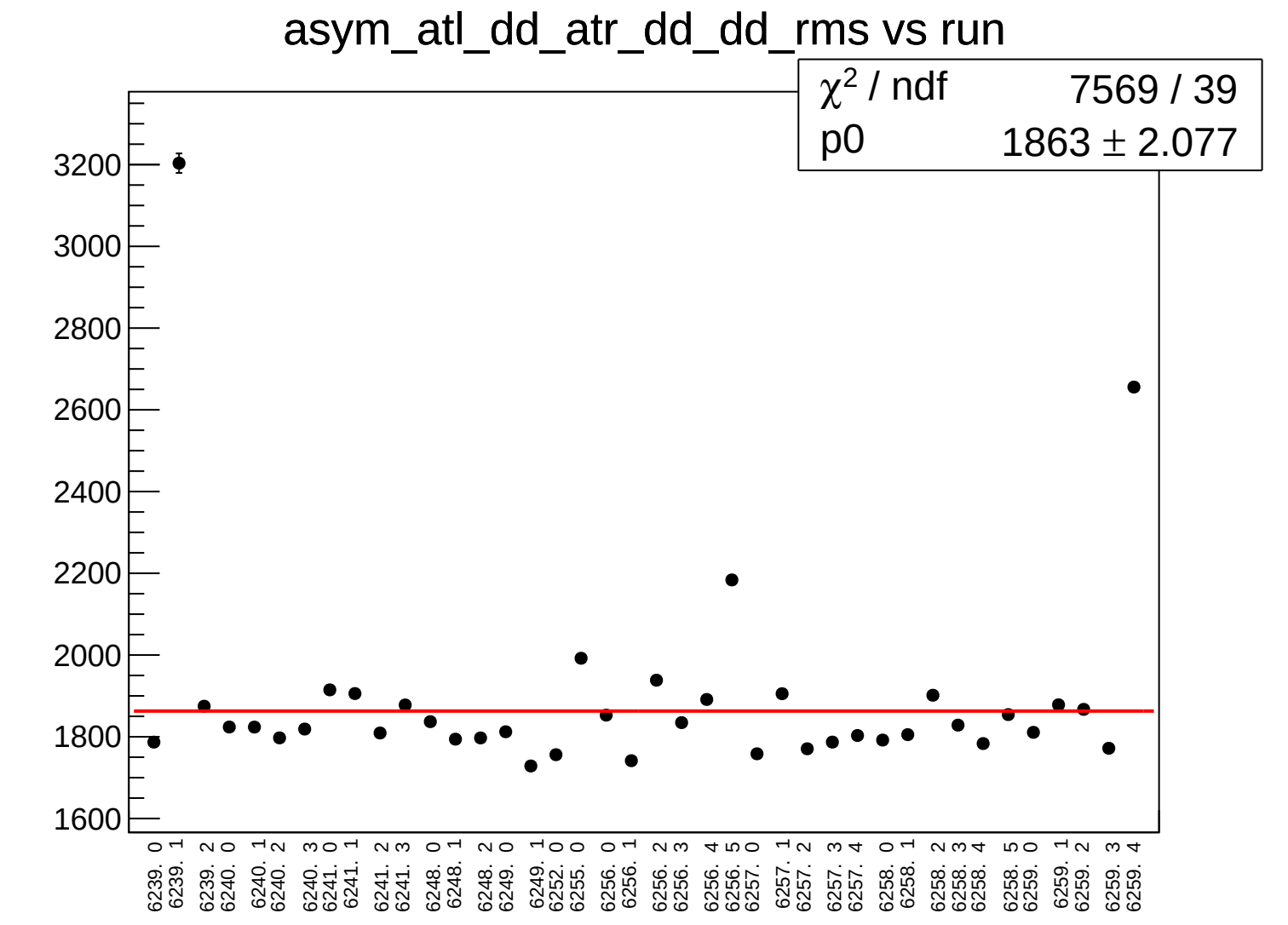

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

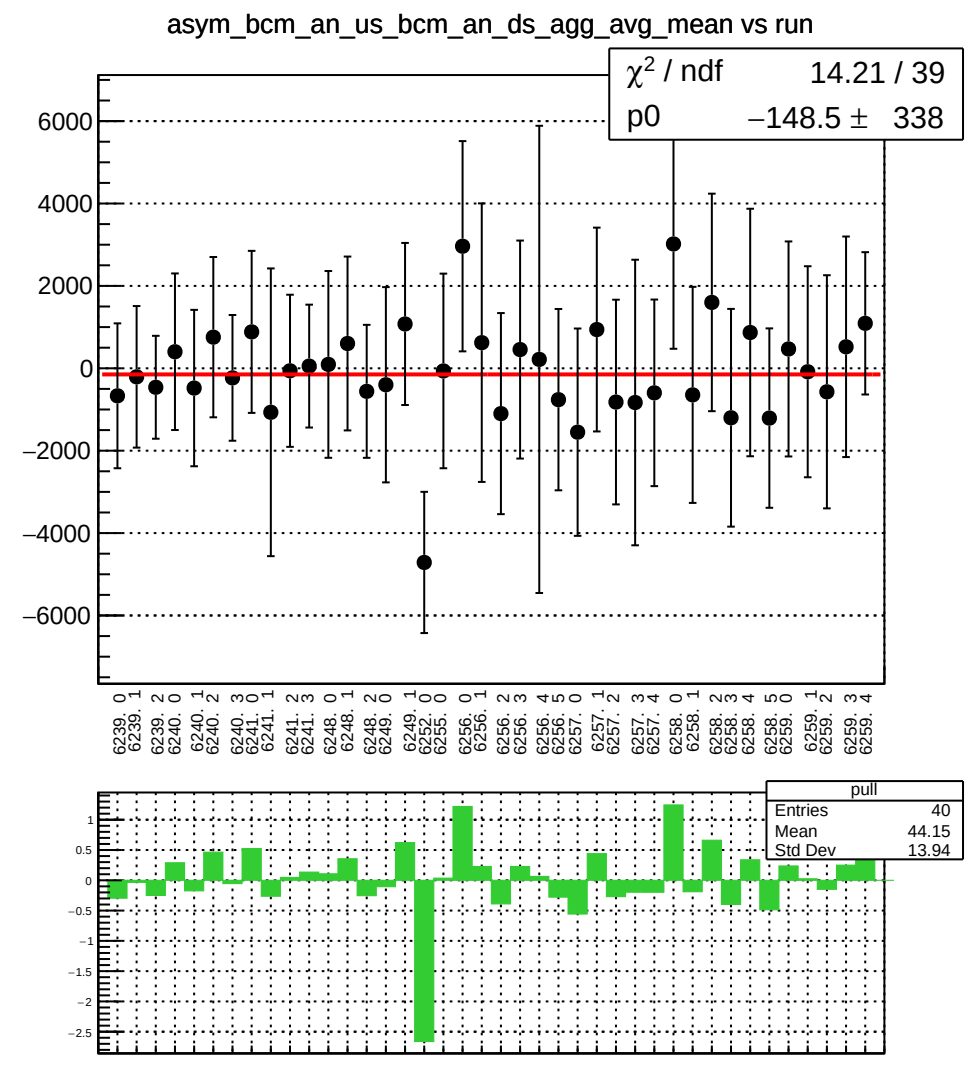

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

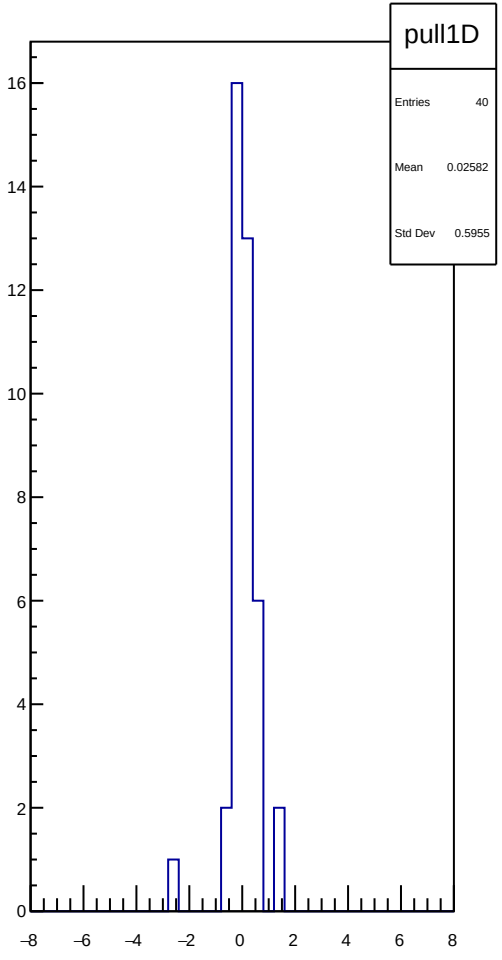

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 39
p0 0 ± 0.1581
1
0.8
0.6
0.4
0.2
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

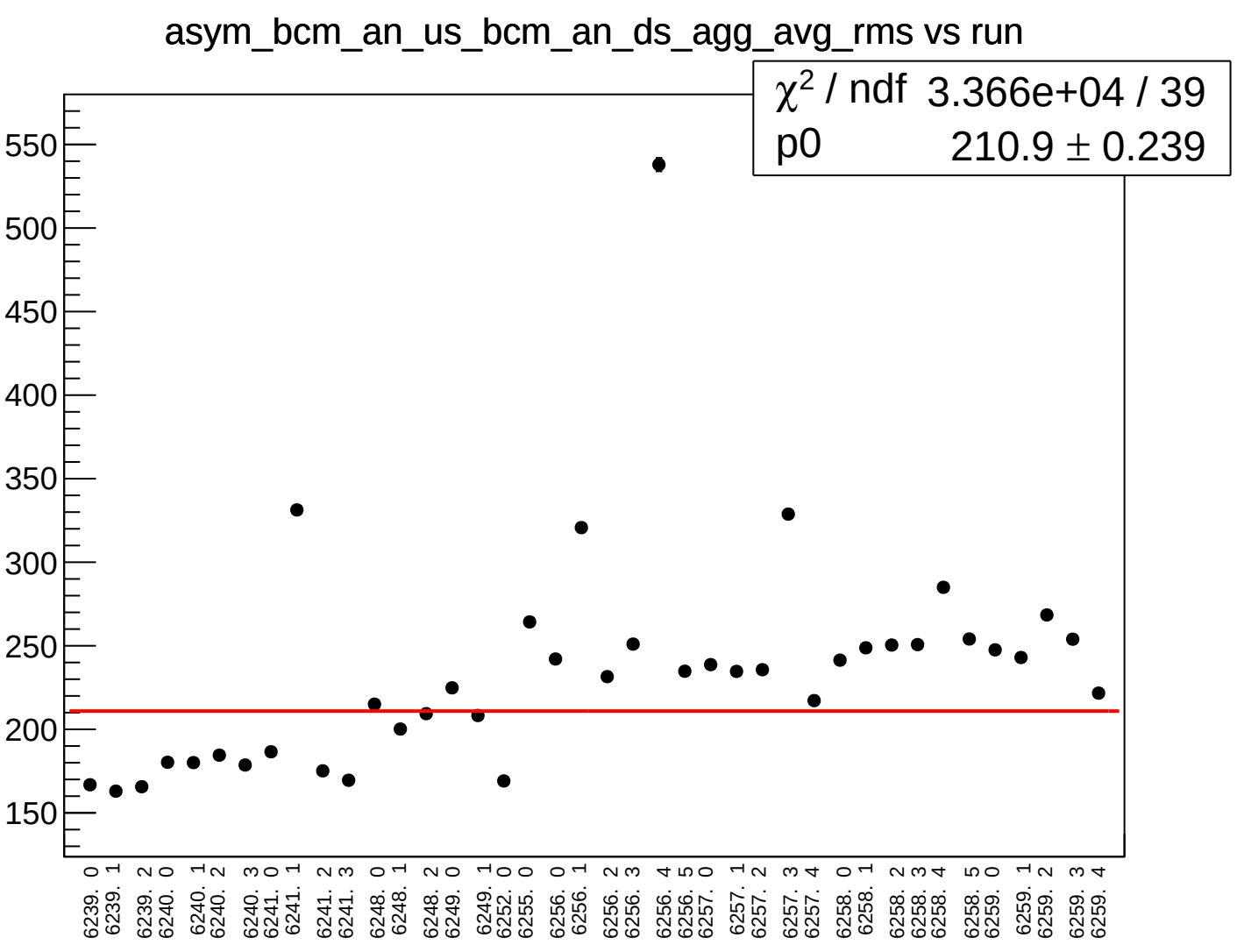

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 45.39 / 39
p0 −2480 ± 2937
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 65.46
Std Dev 60.78
3
2
1
0
−1
−2

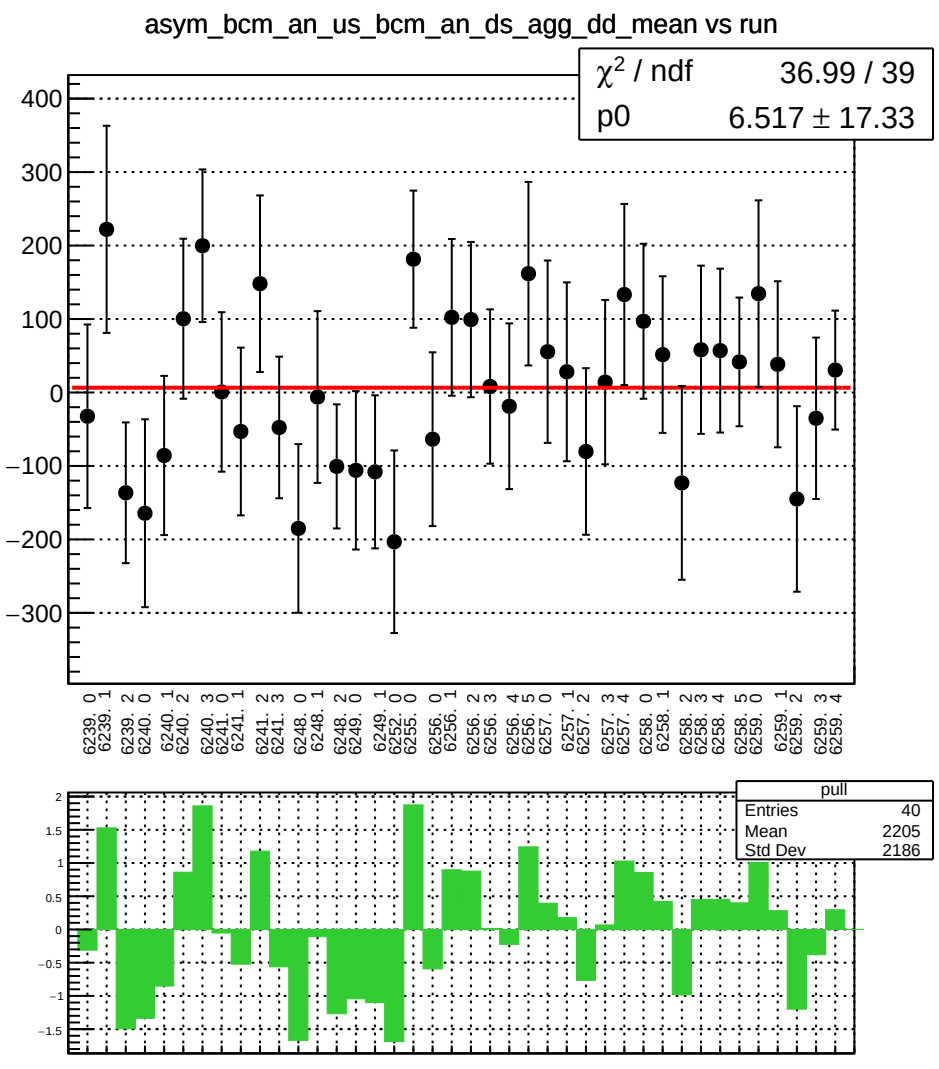

pull1D
Entries 40
Mean −0.02374
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

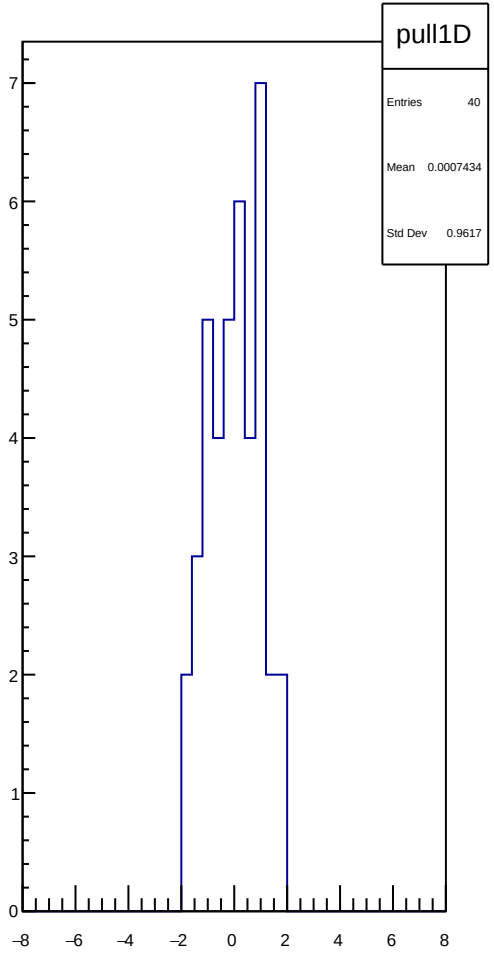

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7569 / 39
p0 1863 ± 2.077
3200
3000
2800
2600
2400
2200
2000
1800
1600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

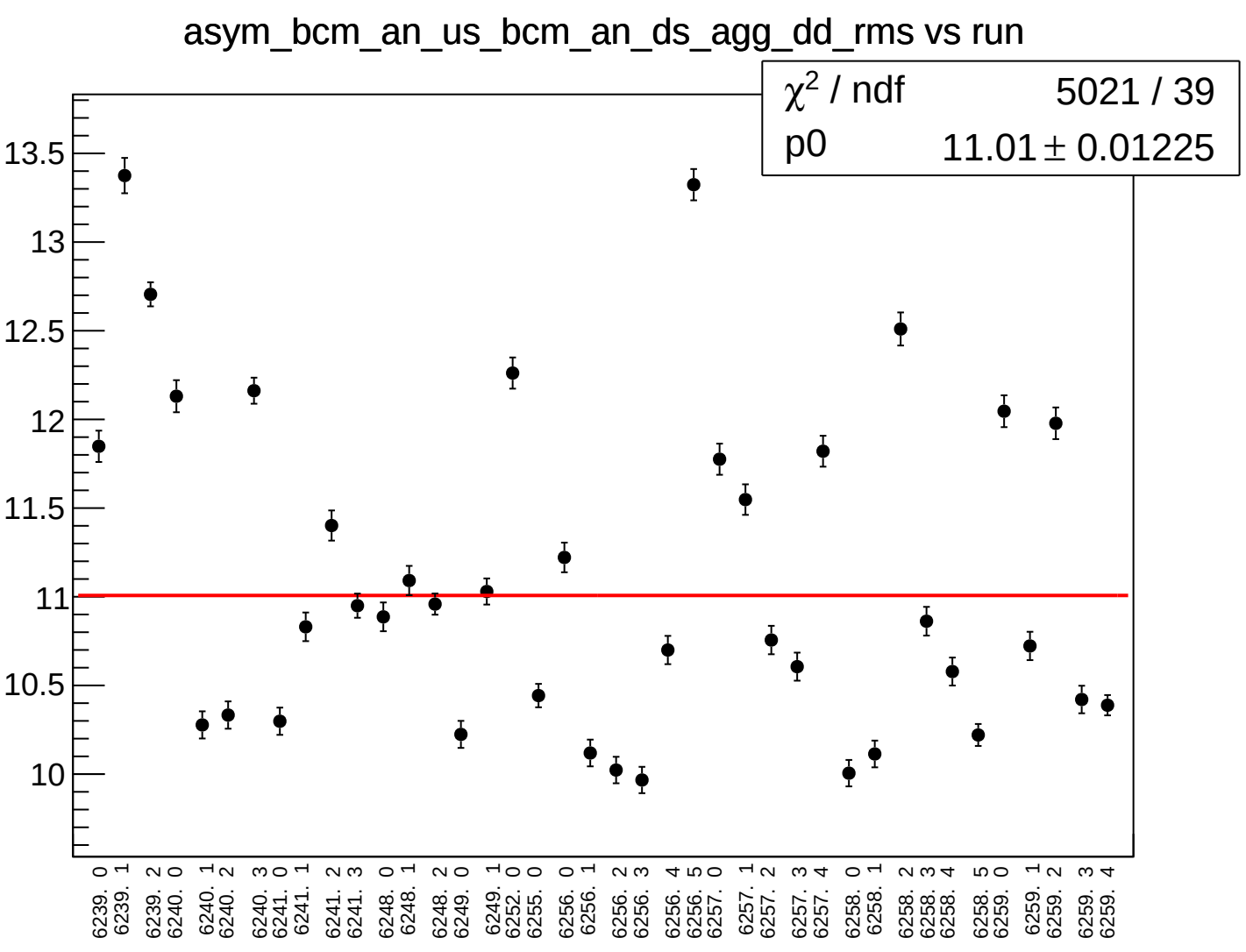

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.21 / 39
p0 −148.5 ± 338
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 44.15
Std Dev 13.94
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

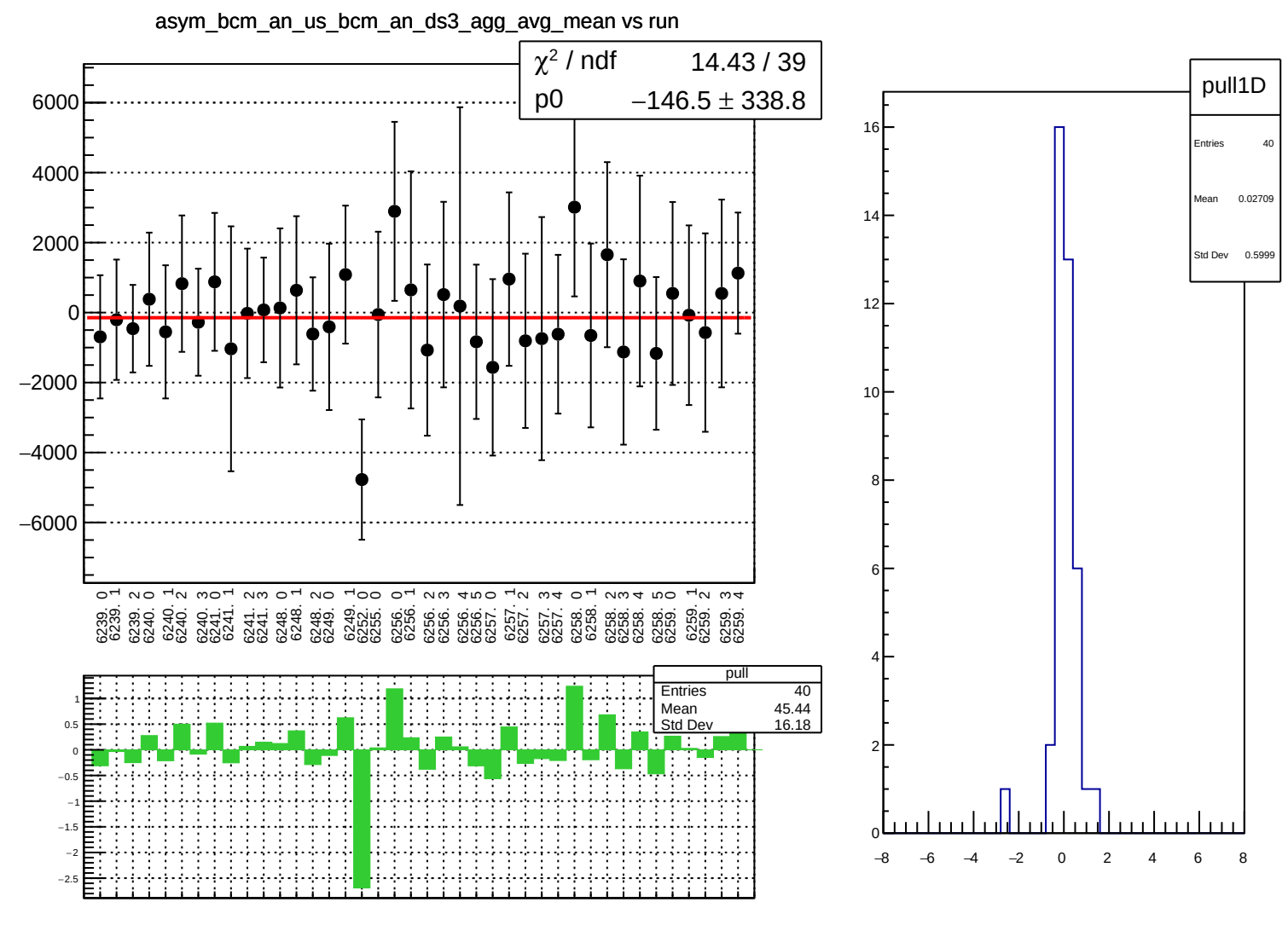

pull1D
Entries 40
Mean 0.02582
Std Dev 0.5955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

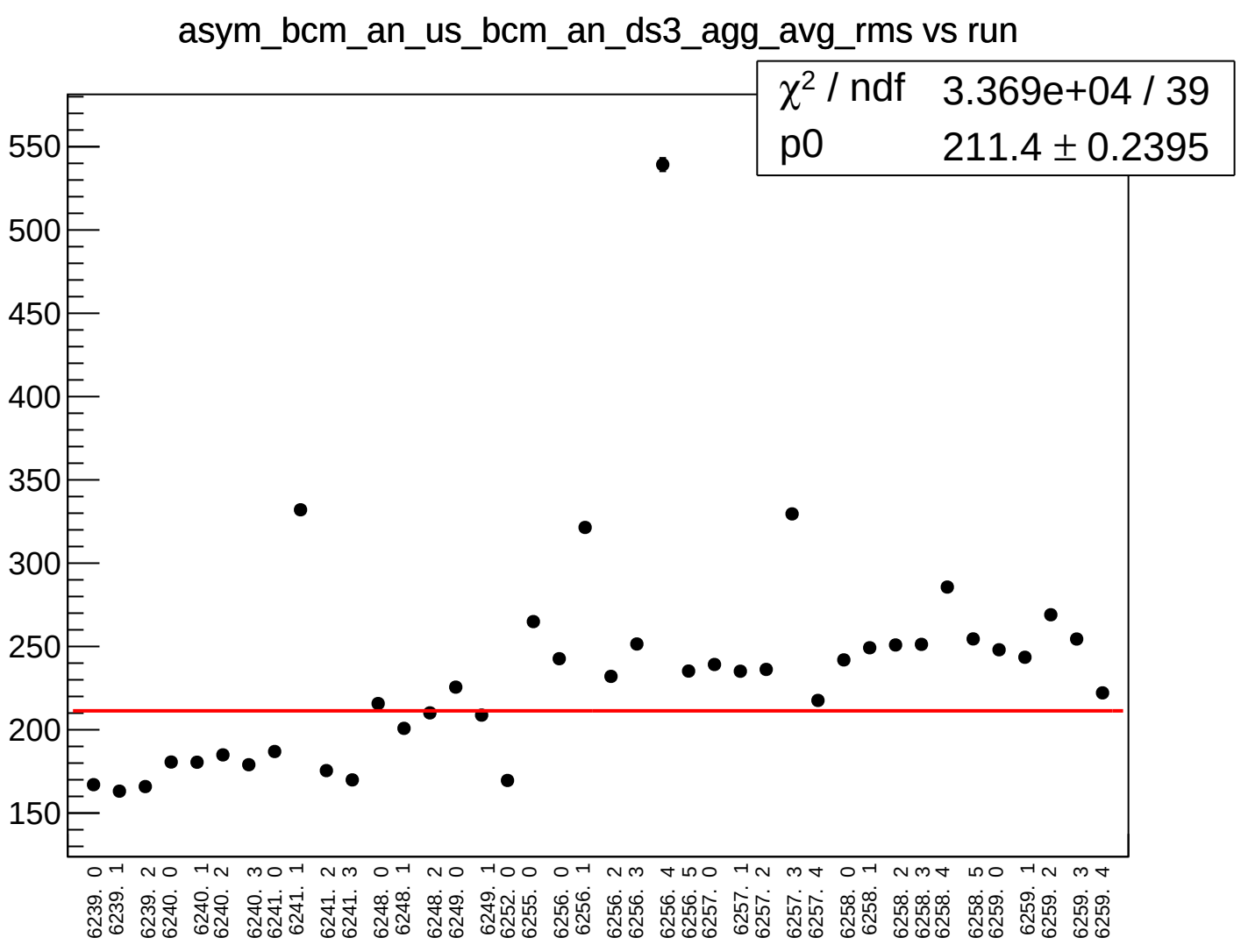

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.366e+04 / 39
p0 210.9 ± 0.239
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.99 / 39
p0 6.517 ± 17.33
400
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 2205
Std Dev 2186
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 40
Mean 0.0007434
Std Dev 0.9617
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5021 / 39
p0 11.01 ± 0.01225
13.5
13
12.5
12
11.5
11
10.5
10
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.43 / 39
p0 −146.5 ± 338.8
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.44
Std Dev 16.18
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.02709
Std Dev 0.5999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.369e+04 / 39
p0 211.4 ± 0.2395
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
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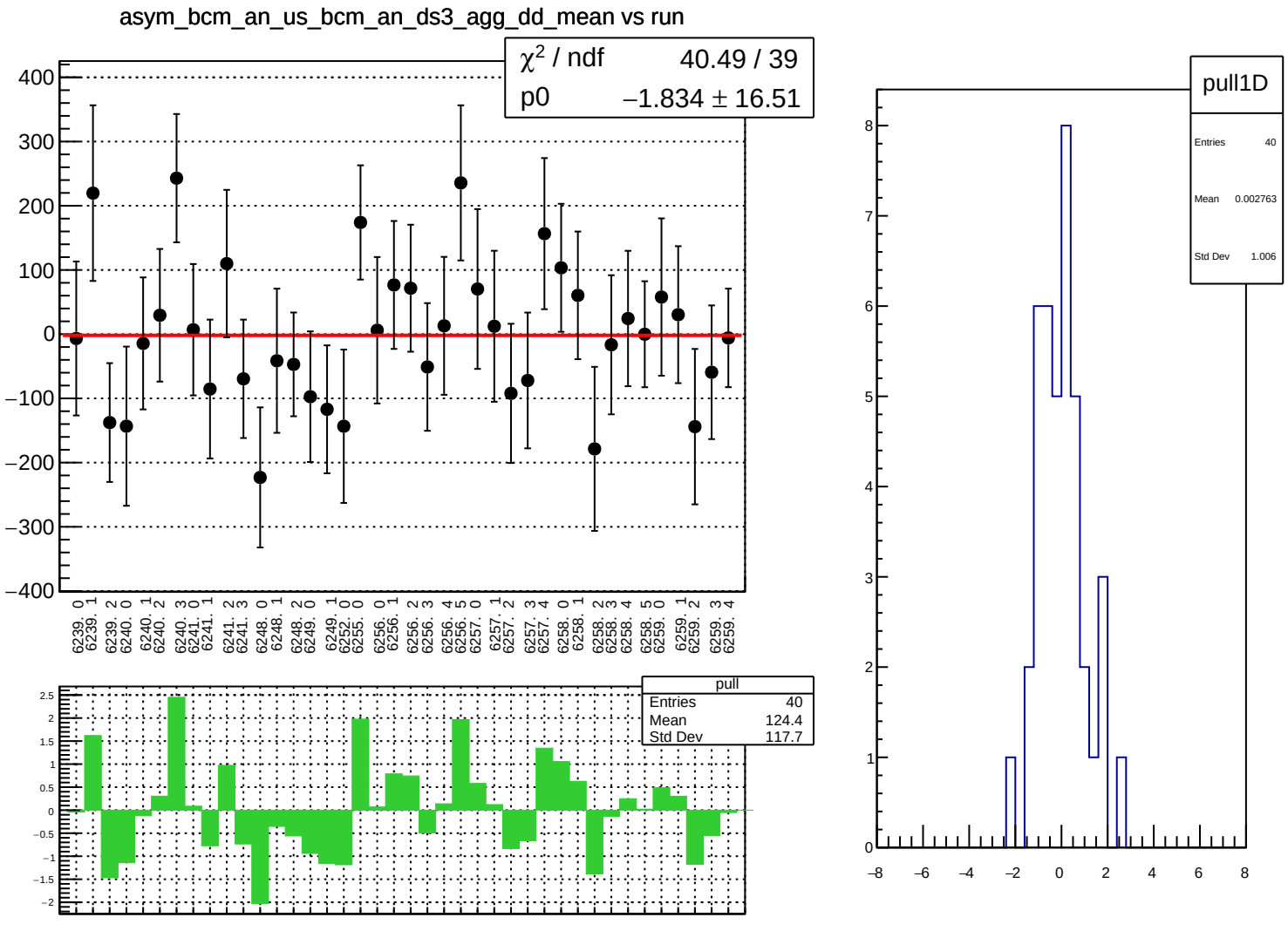
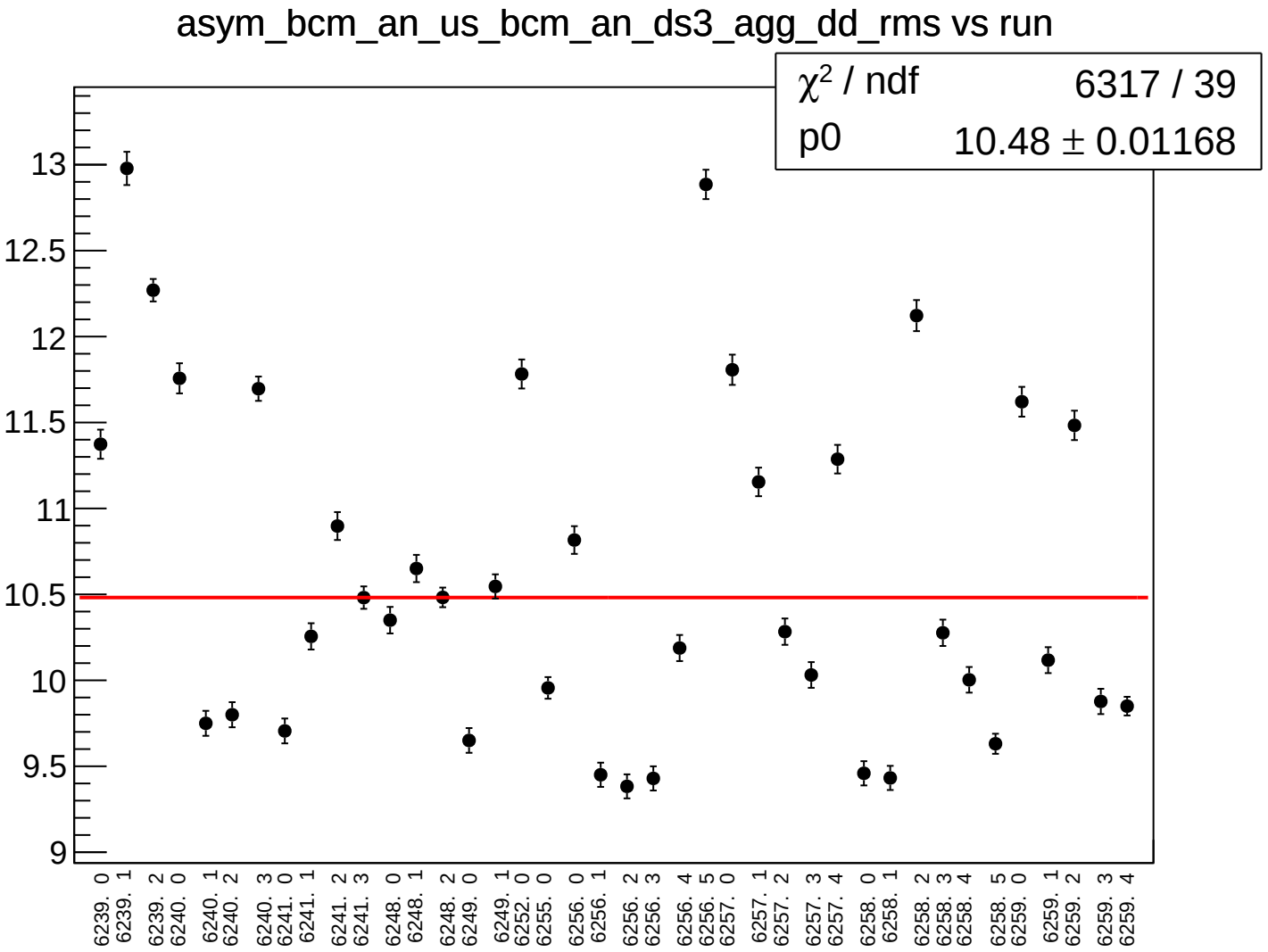
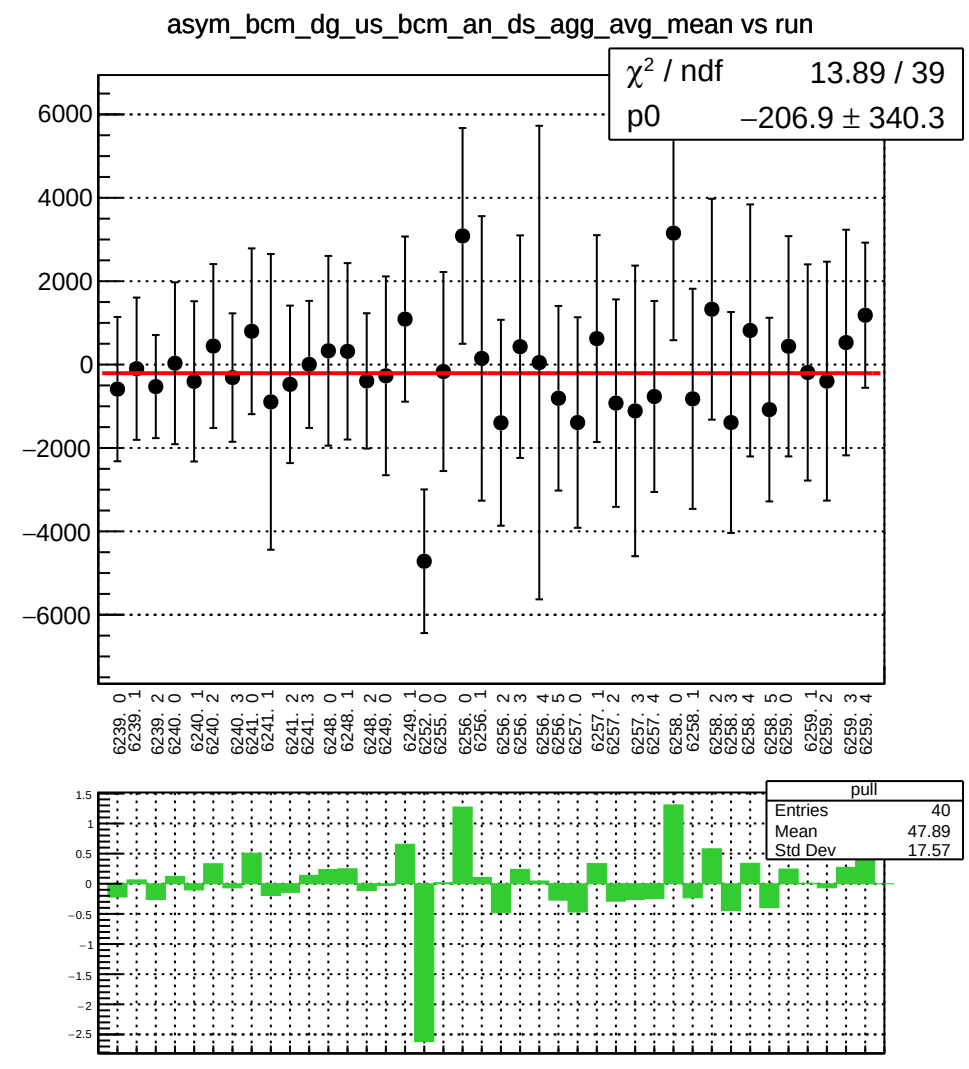
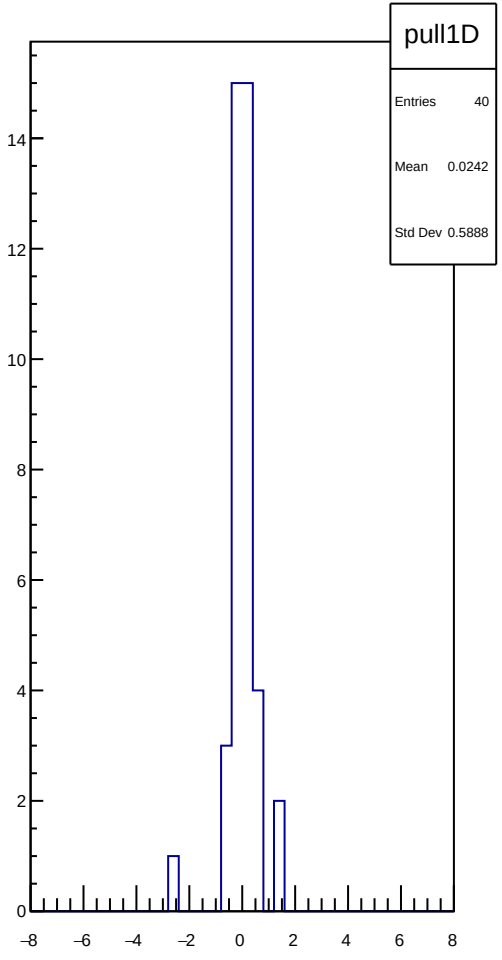
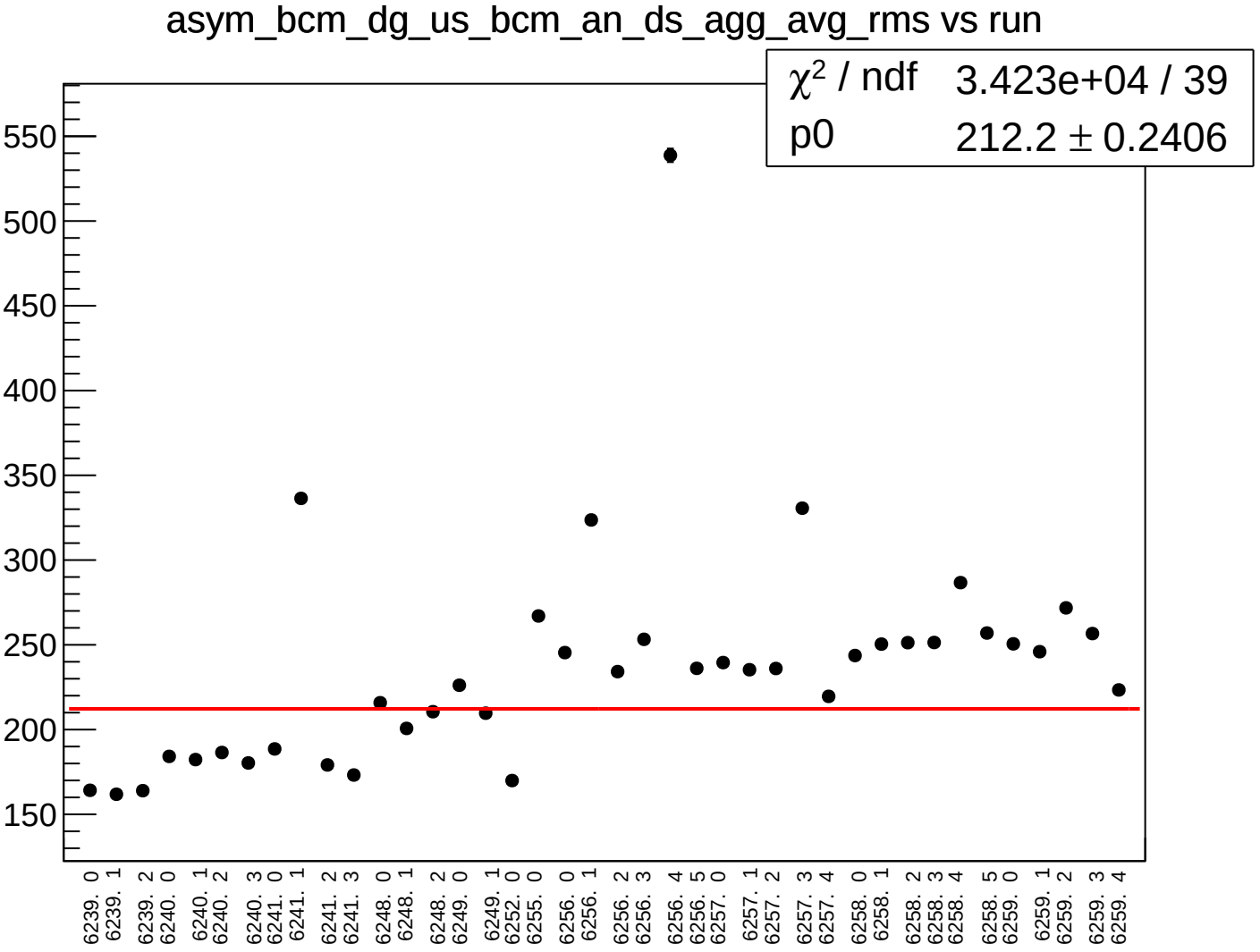
6259. 3
6259. 4

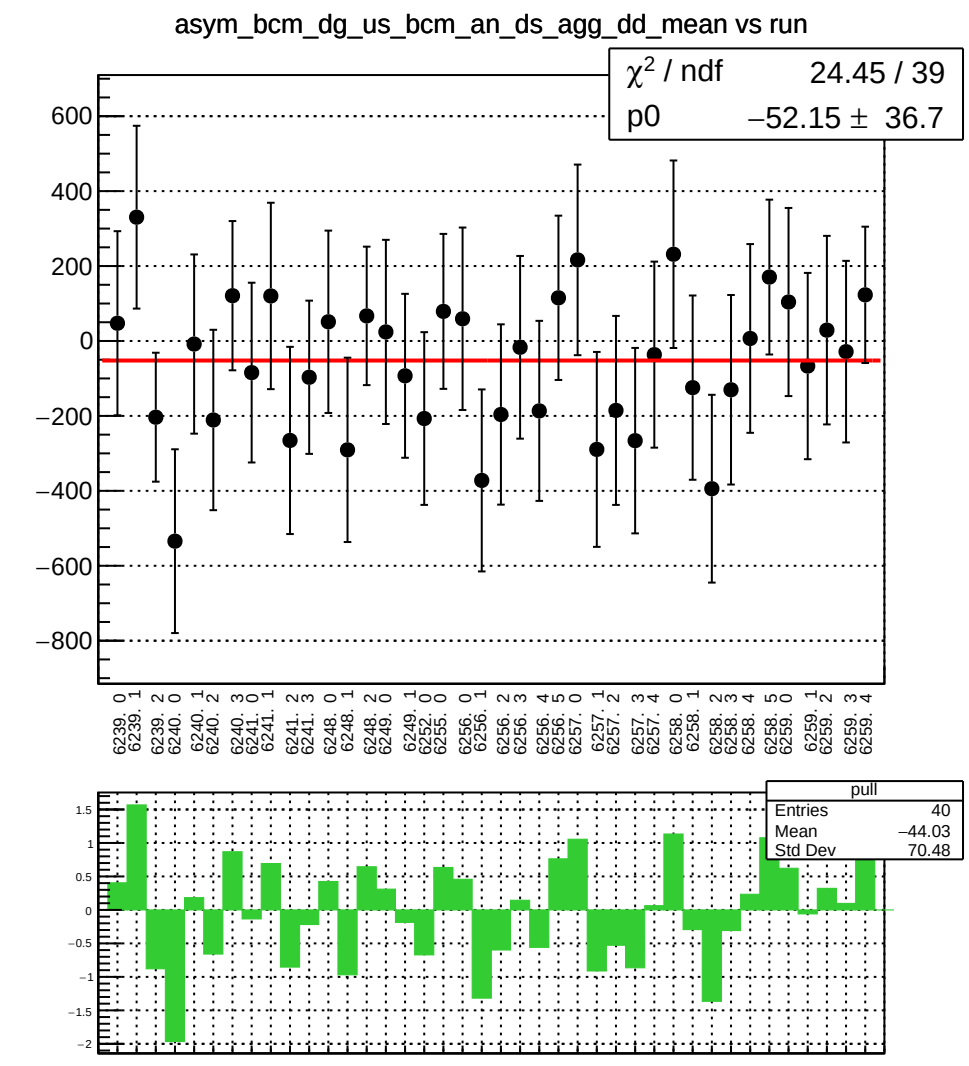

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 40.49 / 39
p0 −1.834 ± 16.51
400
300
200
100
0
−100
−200
−300
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 124.4
Std Dev 117.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.002763
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

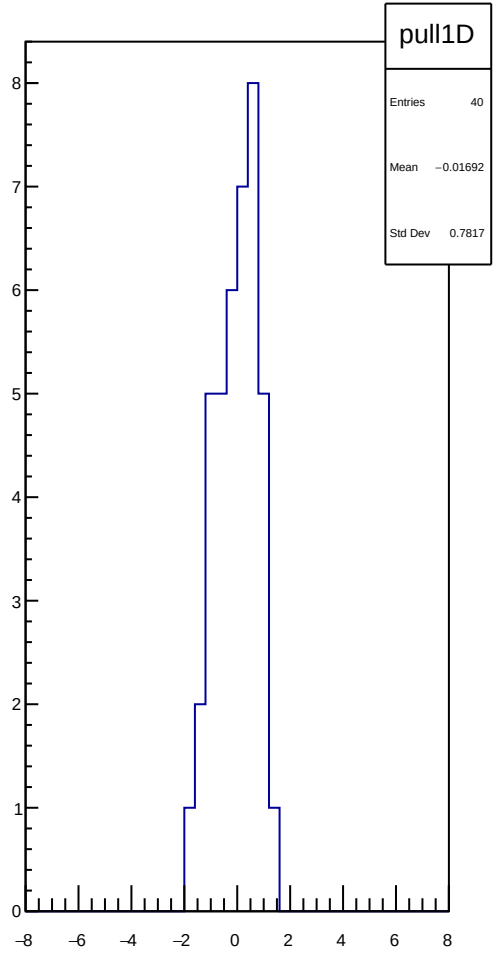

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 6317 / 39
p0 10.48 ± 0.01168
13
12.5
12
11.5
11
10.5
10
9.5
9
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

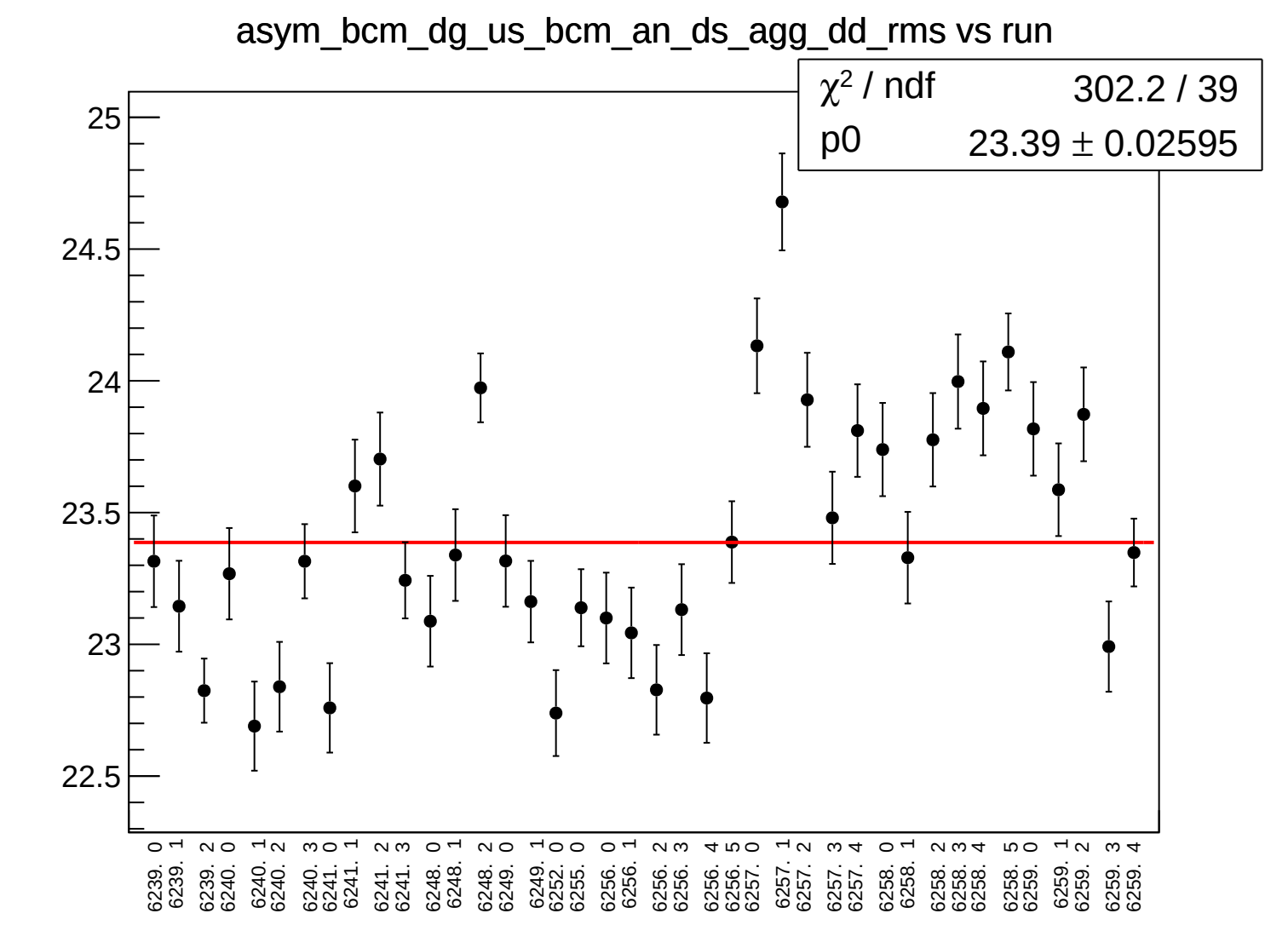

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.89 / 39
p0 −206.9 ± 340.3
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 47.89
Std Dev 17.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

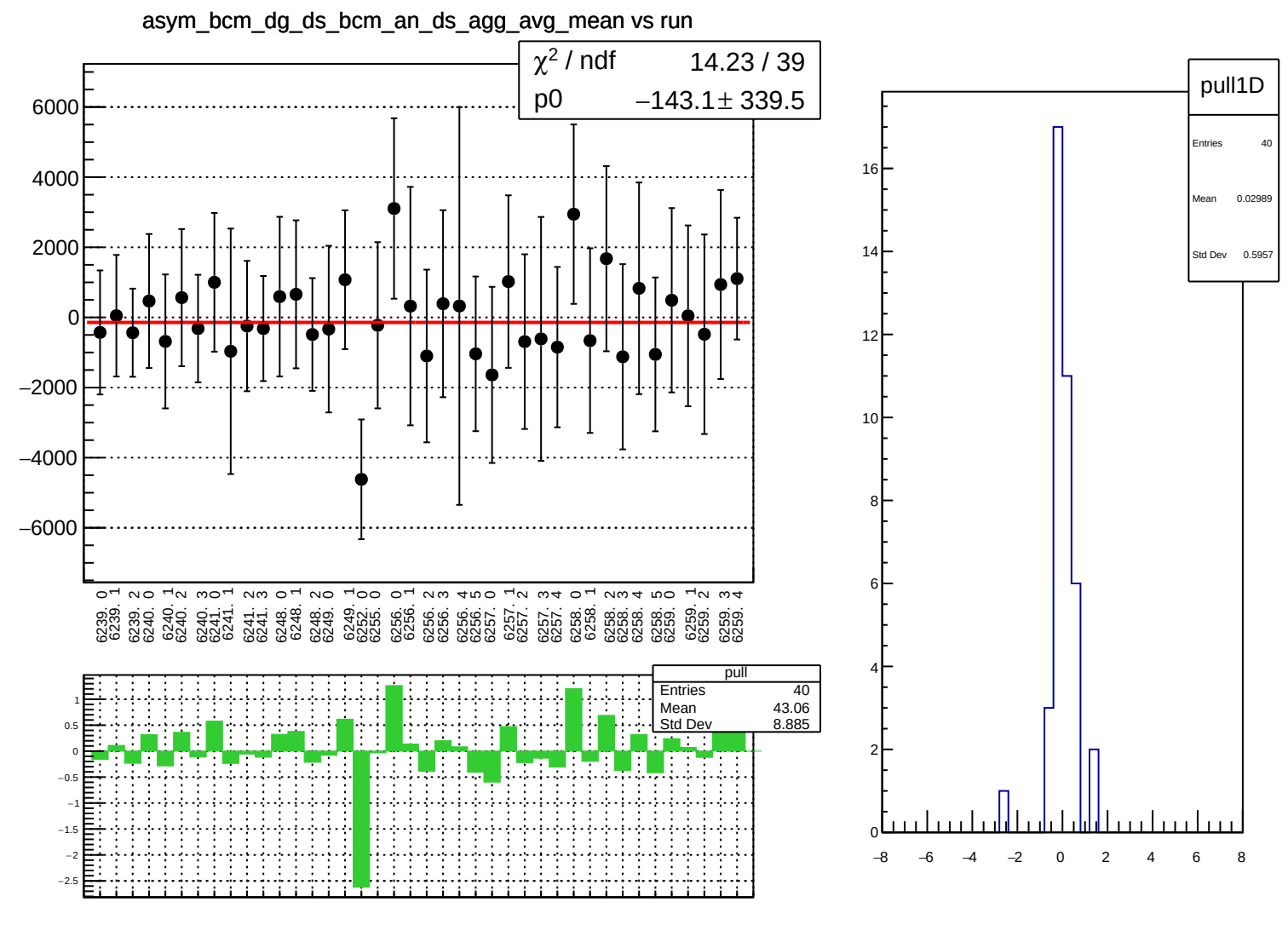

pull1D
Entries 40
Mean 0.0242
Std Dev 0.5888
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

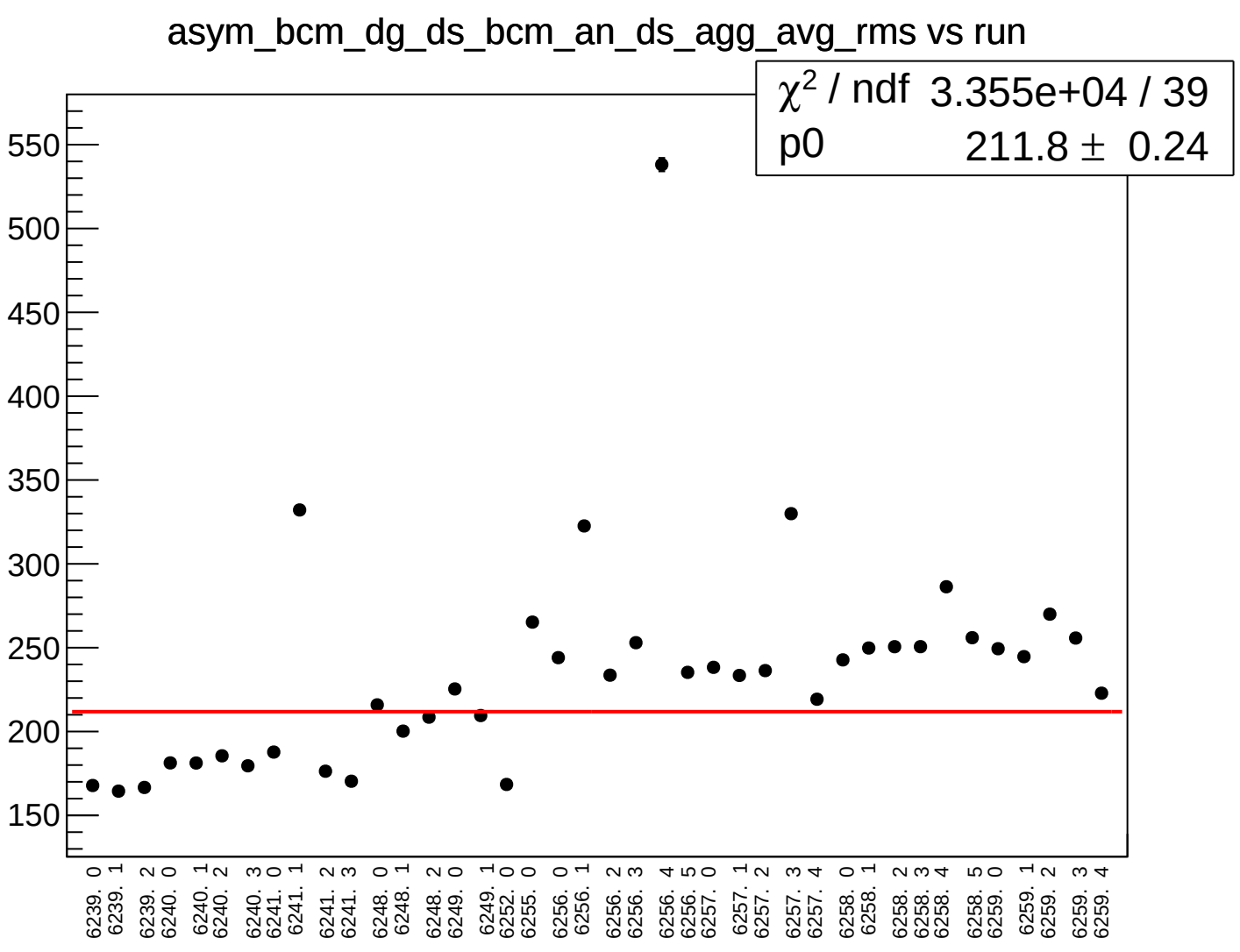

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.423e+04 / 39
p0 212.2 ± 0.2406
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

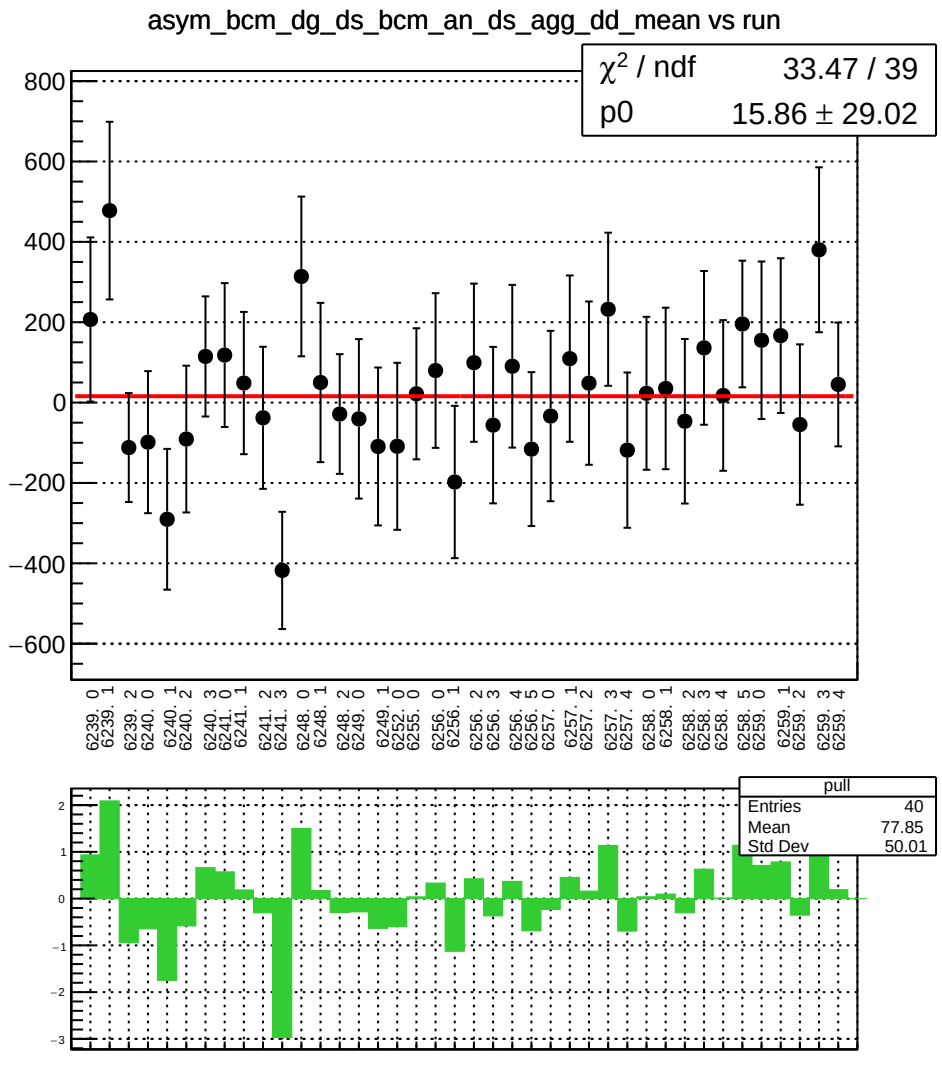

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 24.45 / 39
p0 −52.15 ± 36.7
pull
Entries 40
Mean −44.03
Std Dev 70.48

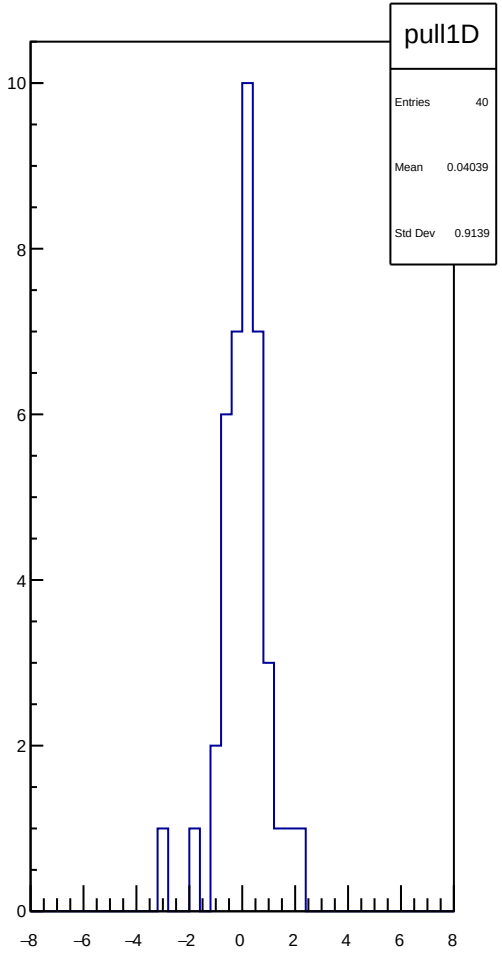

pull1D
Entries 40
Mean −0.01692
Std Dev 0.7817

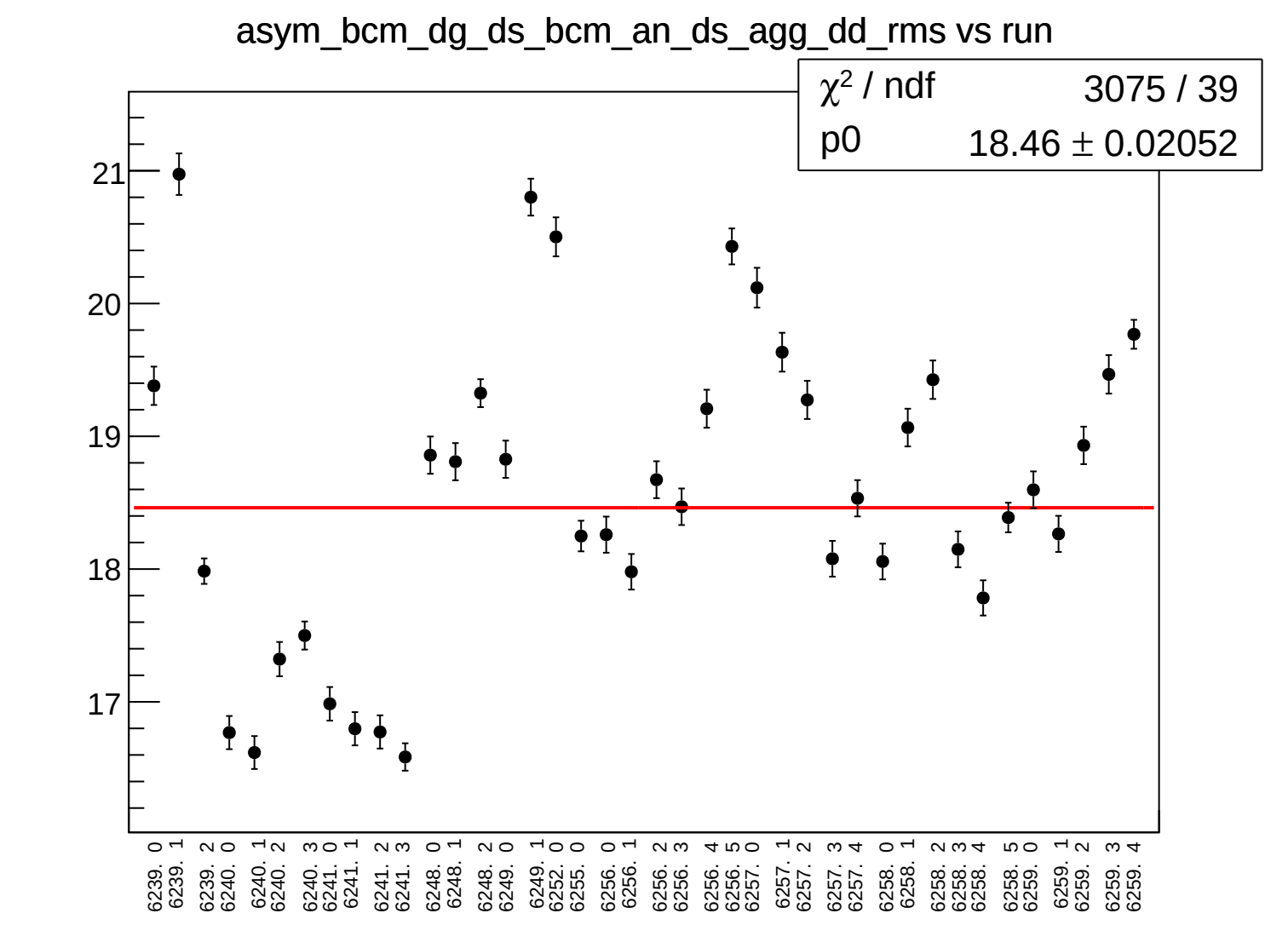

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 302.2 / 39
p0 23.39 ± 0.02595
25
24.5
24
23.5
23
22.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

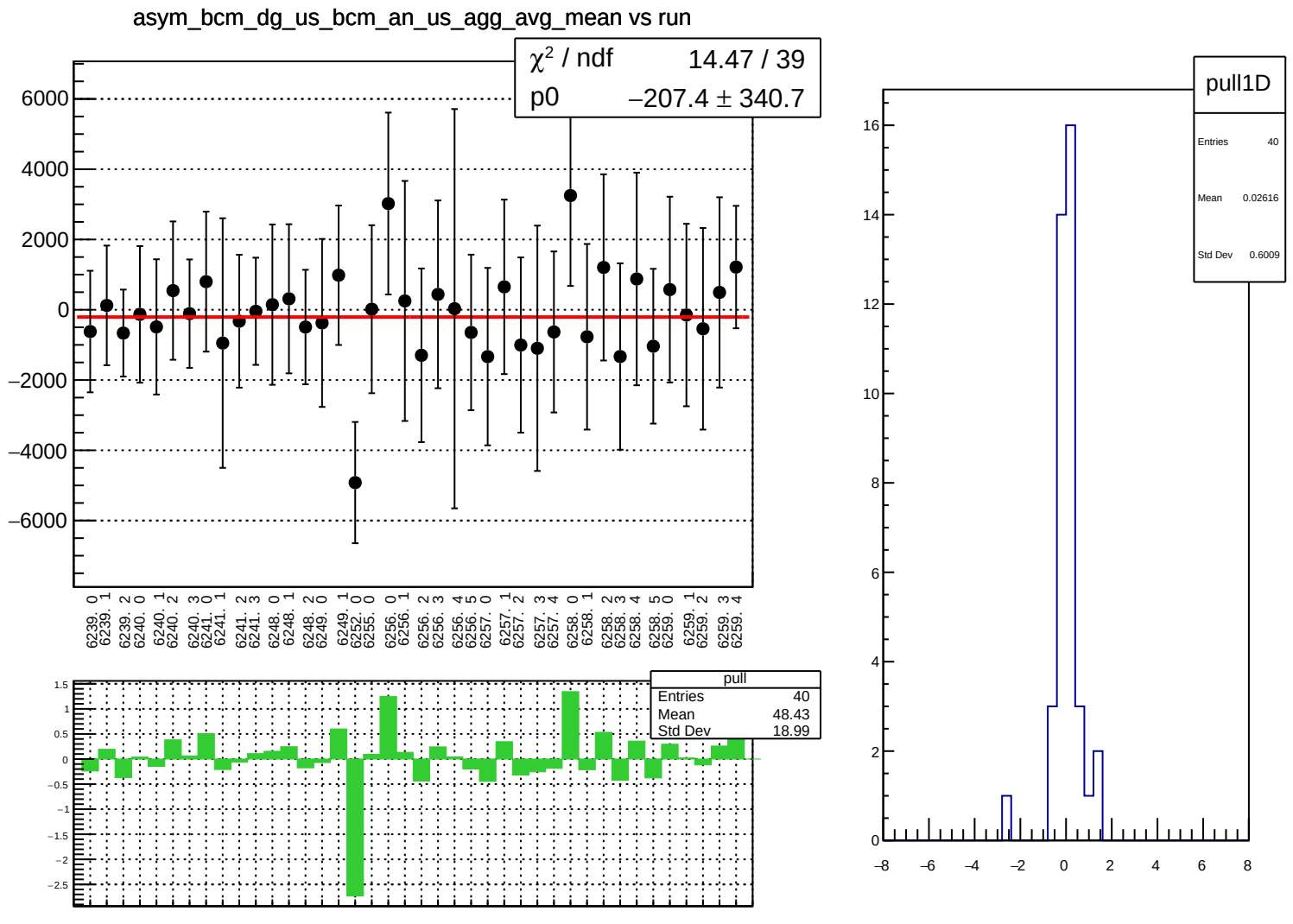

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.23 / 39
p0 −143.1± 339.5
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.06
Std Dev 8.885
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.02989
Std Dev 0.5957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

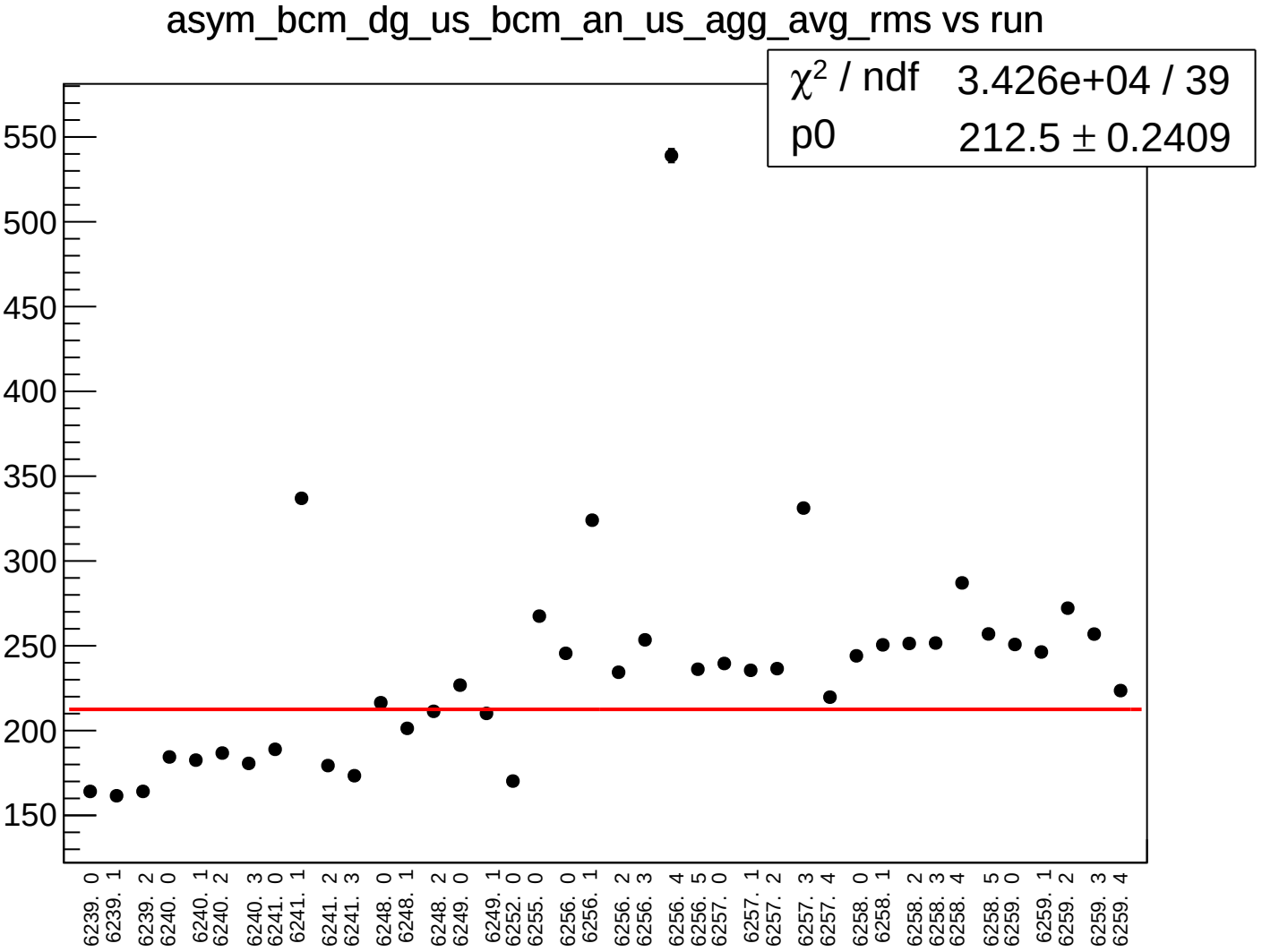

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.355e+04 / 39
p0 211.8 ± 0.24
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

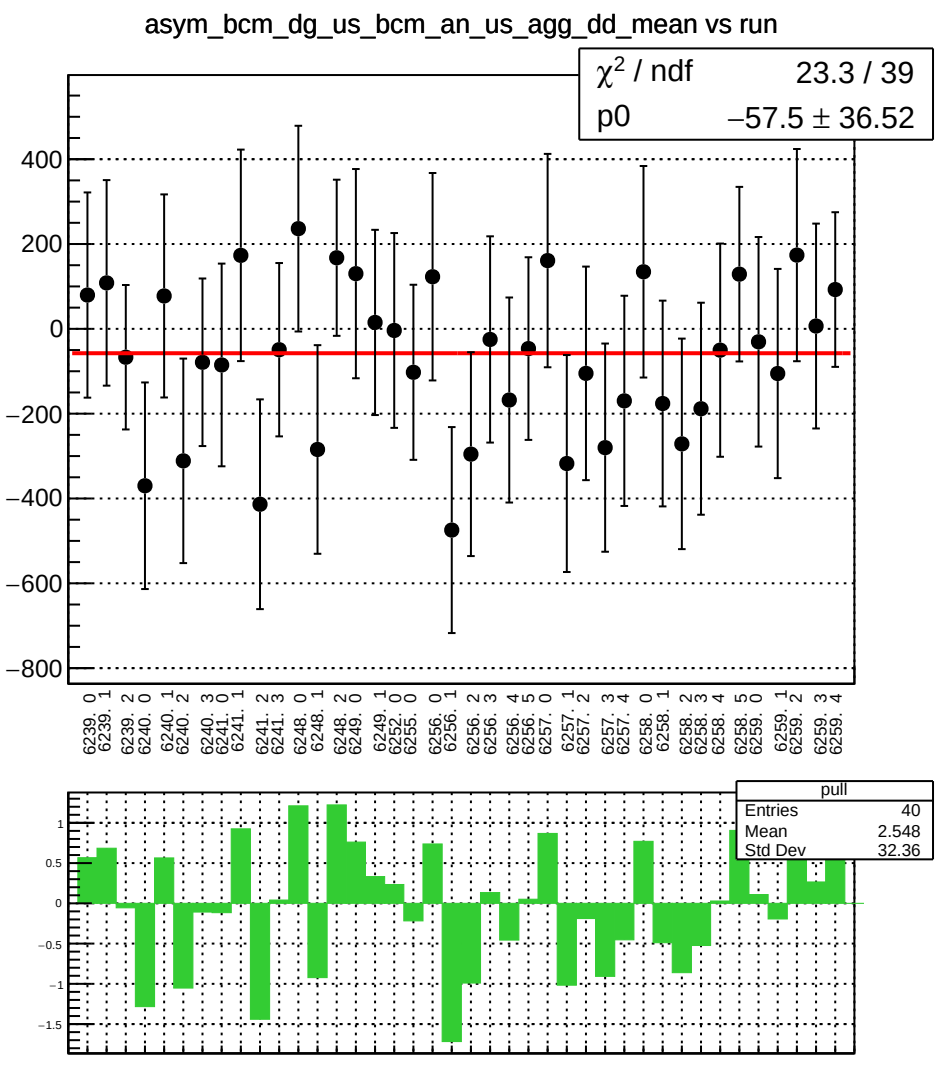

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 33.47 / 39
p0 15.86 ± 29.02
pull
Entries 40
Mean 77.85
Std Dev 50.01

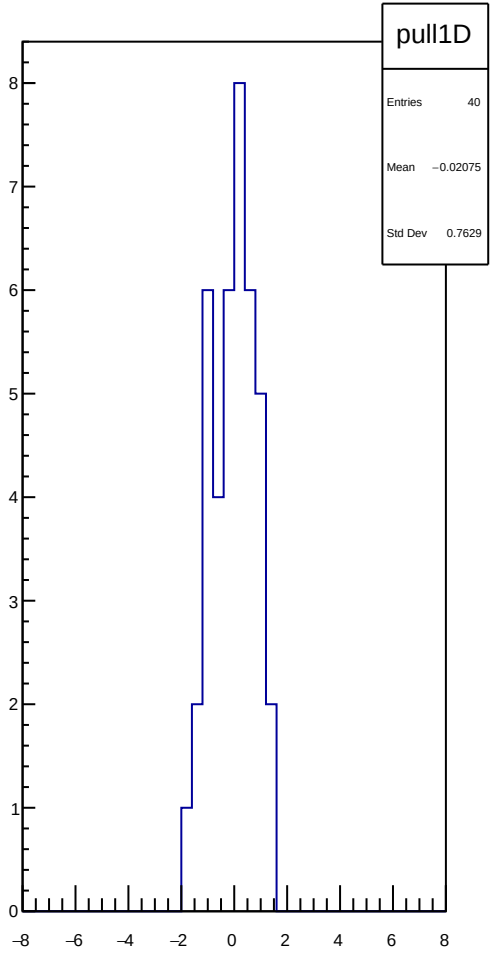

pull1D
Entries 40
Mean 0.04039
Std Dev 0.9139

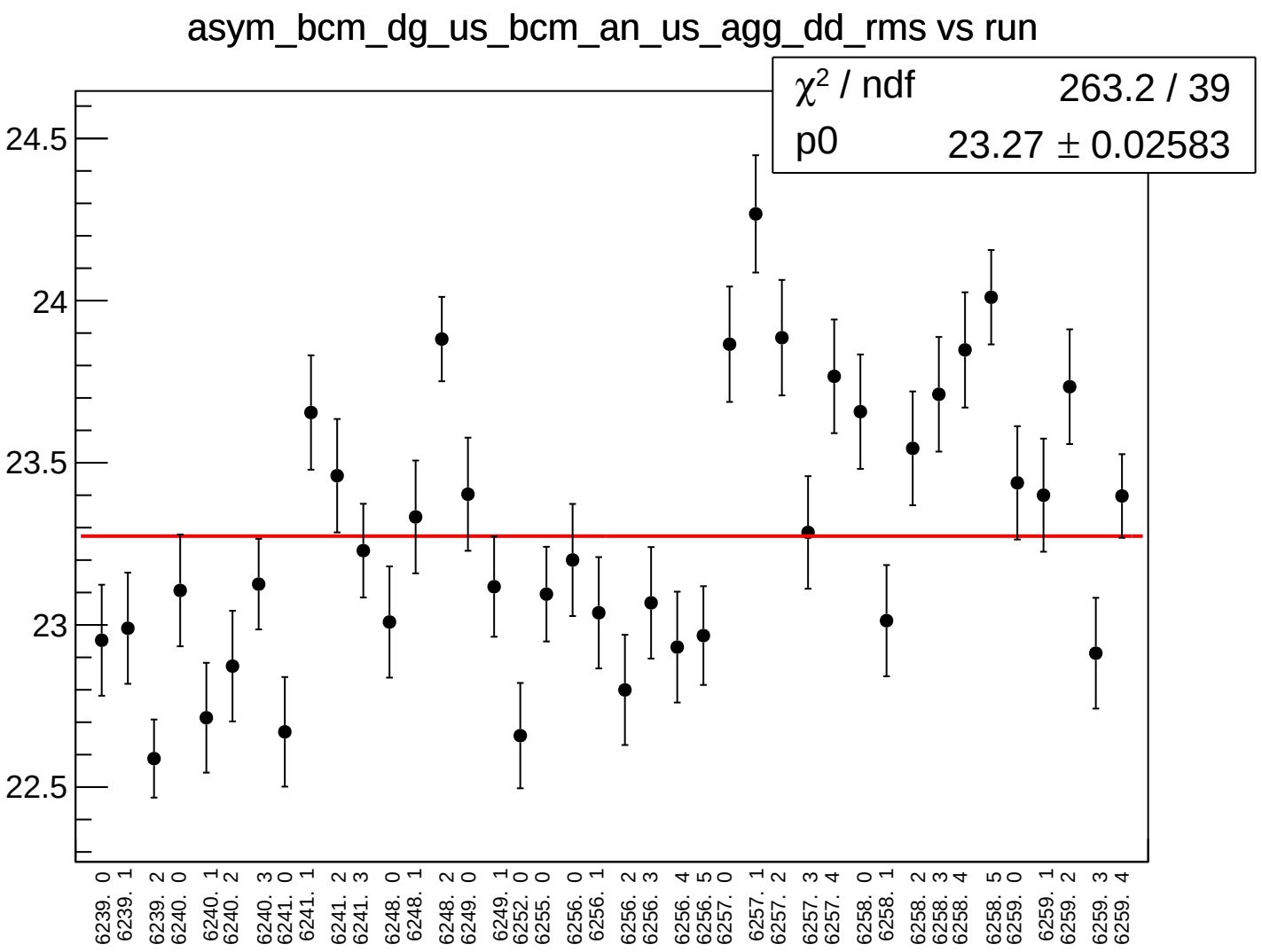

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3075 / 39
p0 18.46 ± 0.02052
21
20
19
18
17
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

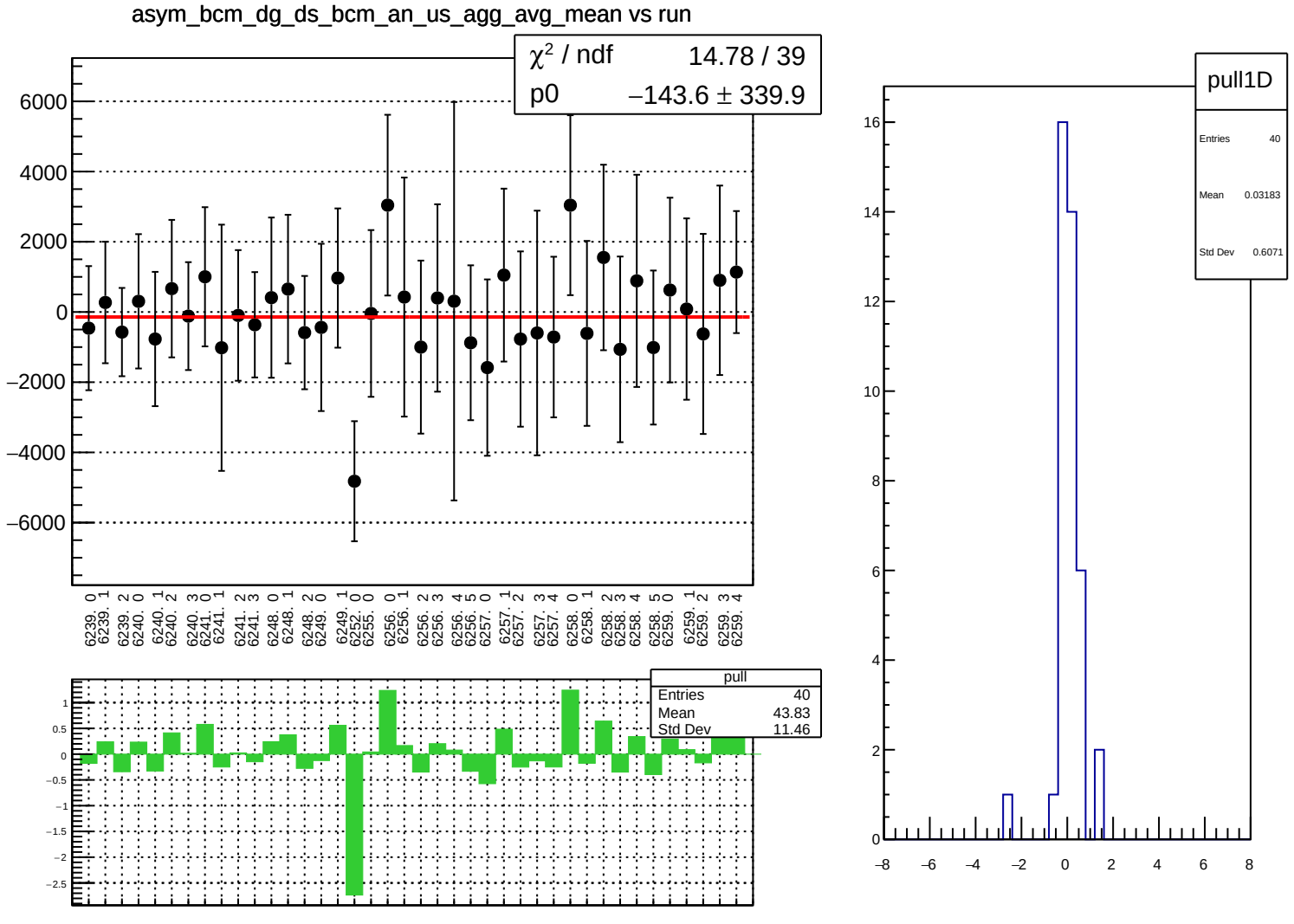

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.47 / 39
p0 −207.4 ± 340.7
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 48.43
Std Dev 18.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.02616
Std Dev 0.6009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

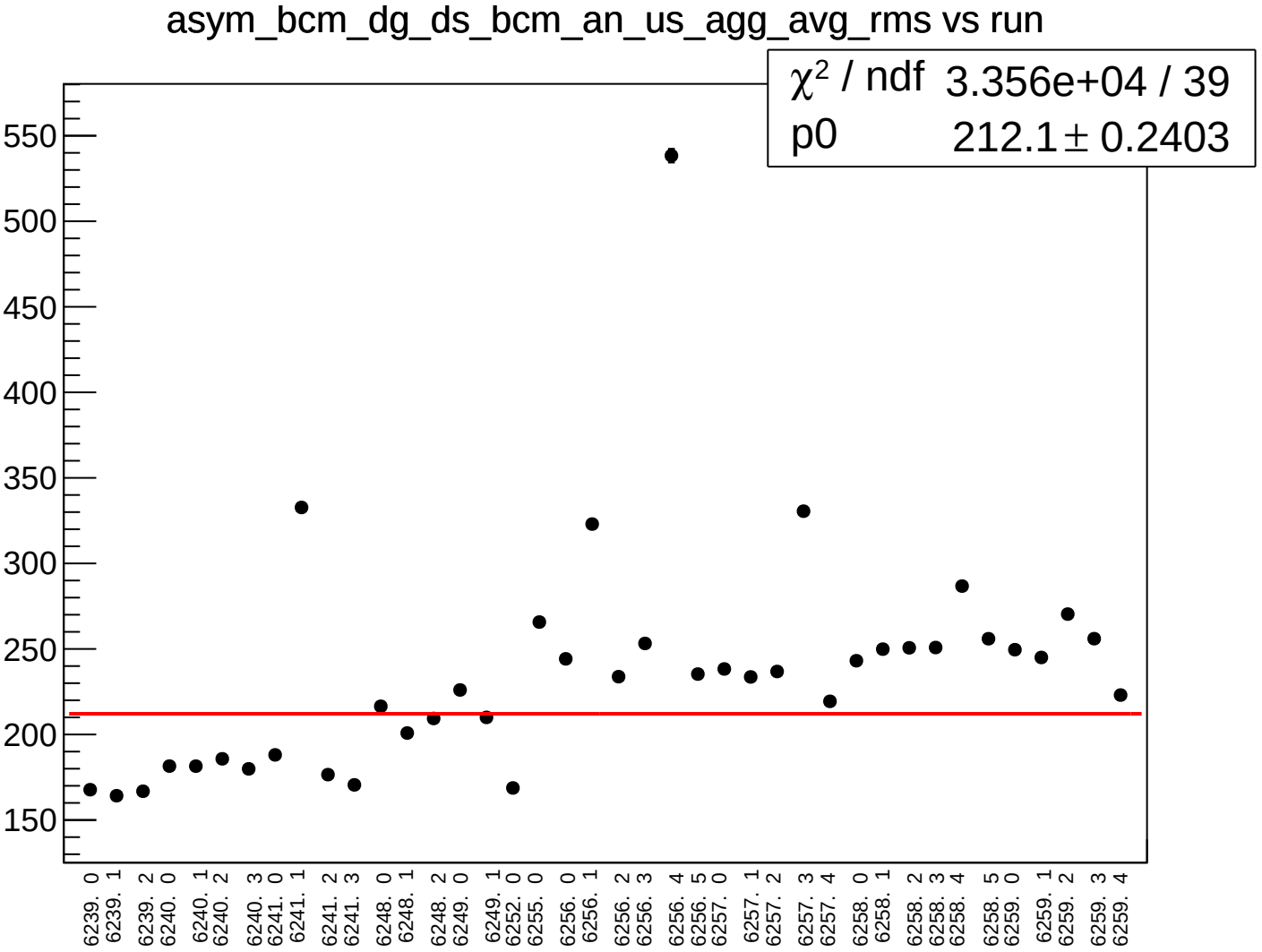

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.426e+04 / 39
p0 212.5 ± 0.2409
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

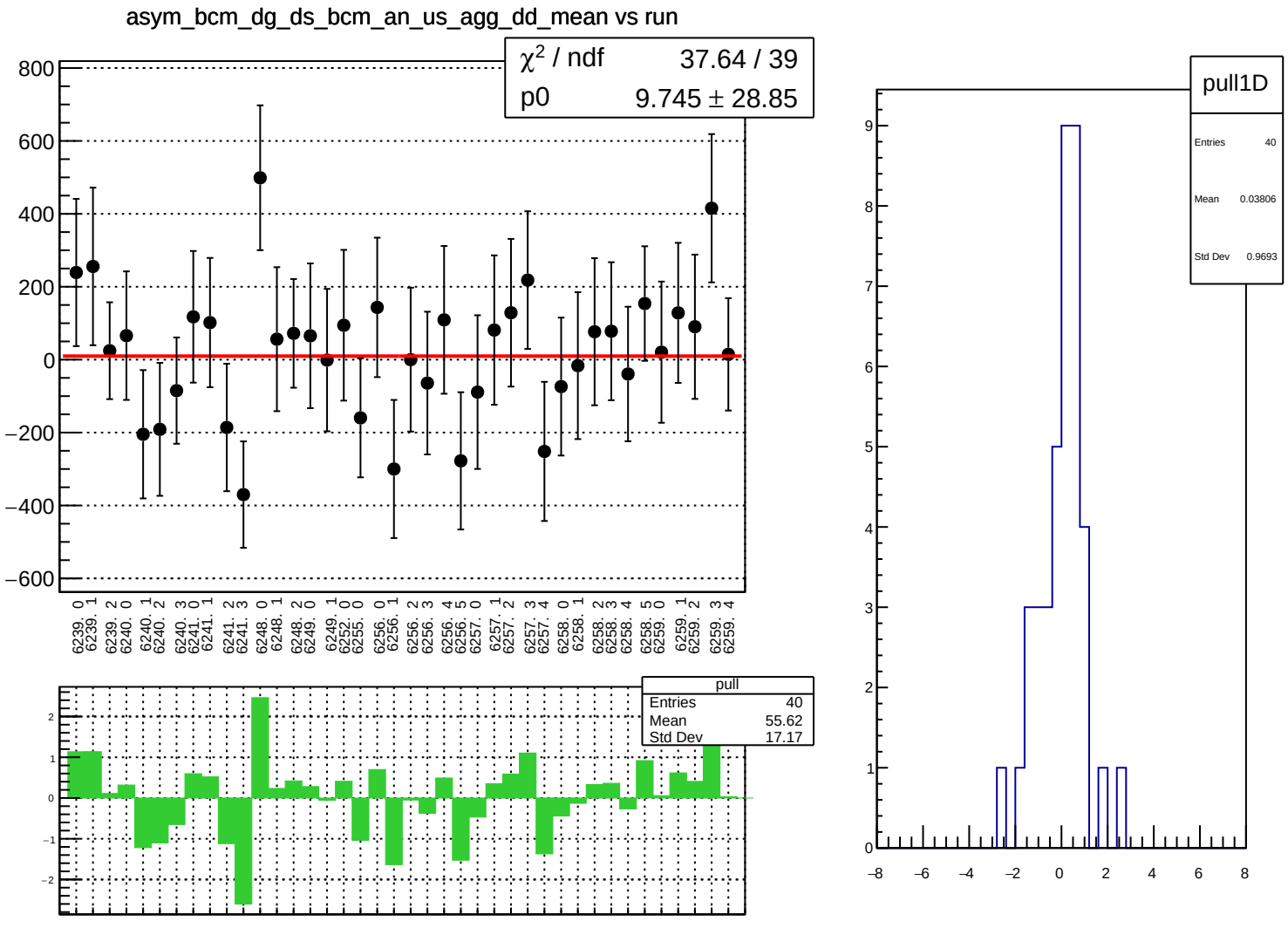

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 23.3 / 39
p0 −57.5 ± 36.52
400
200
0
−200
−400
−600
−800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 2.548
Std Dev 32.36
1
0.5
0
−0.5
−1
−1.5

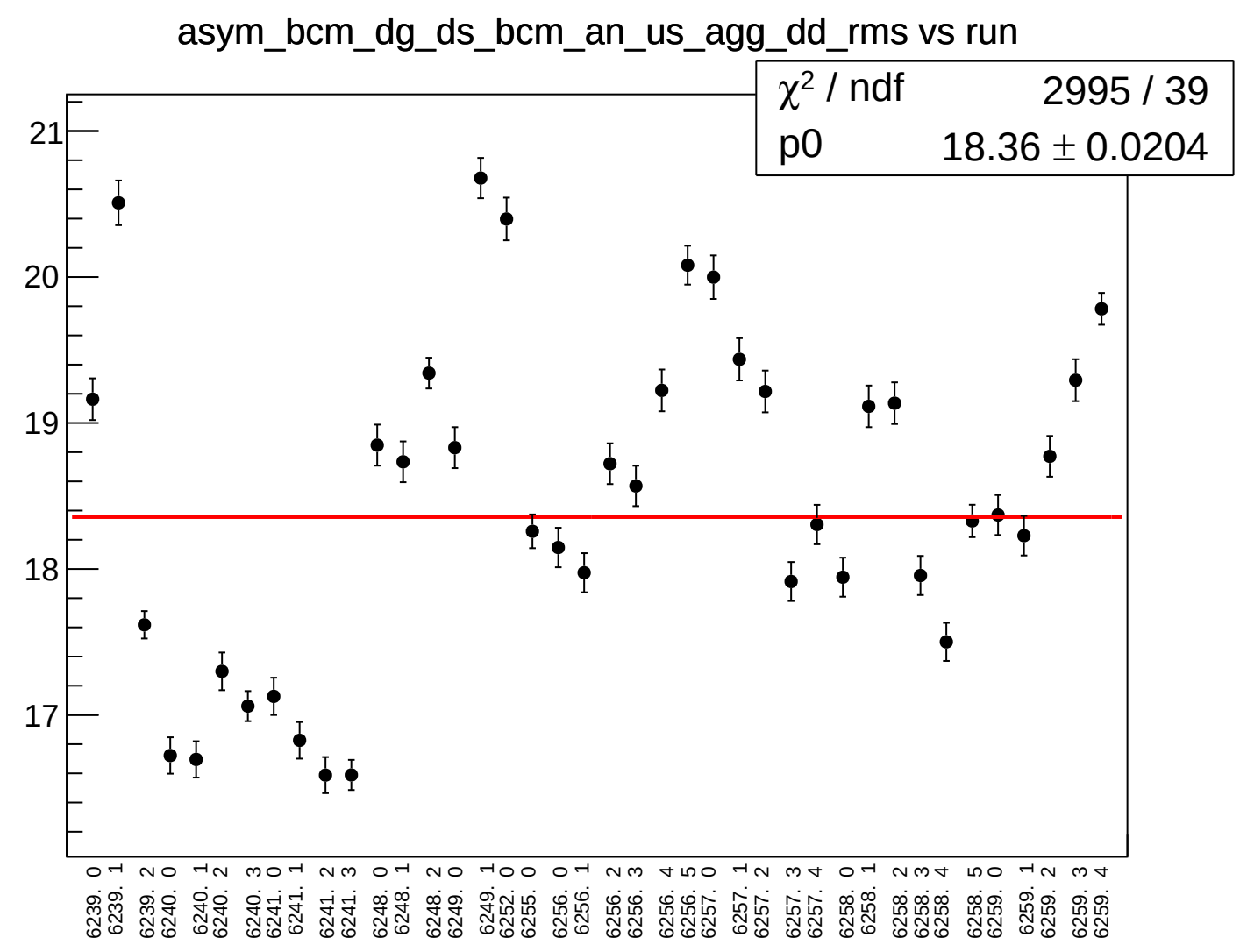

pull1D
Entries 40
Mean −0.02075
Std Dev 0.7629
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

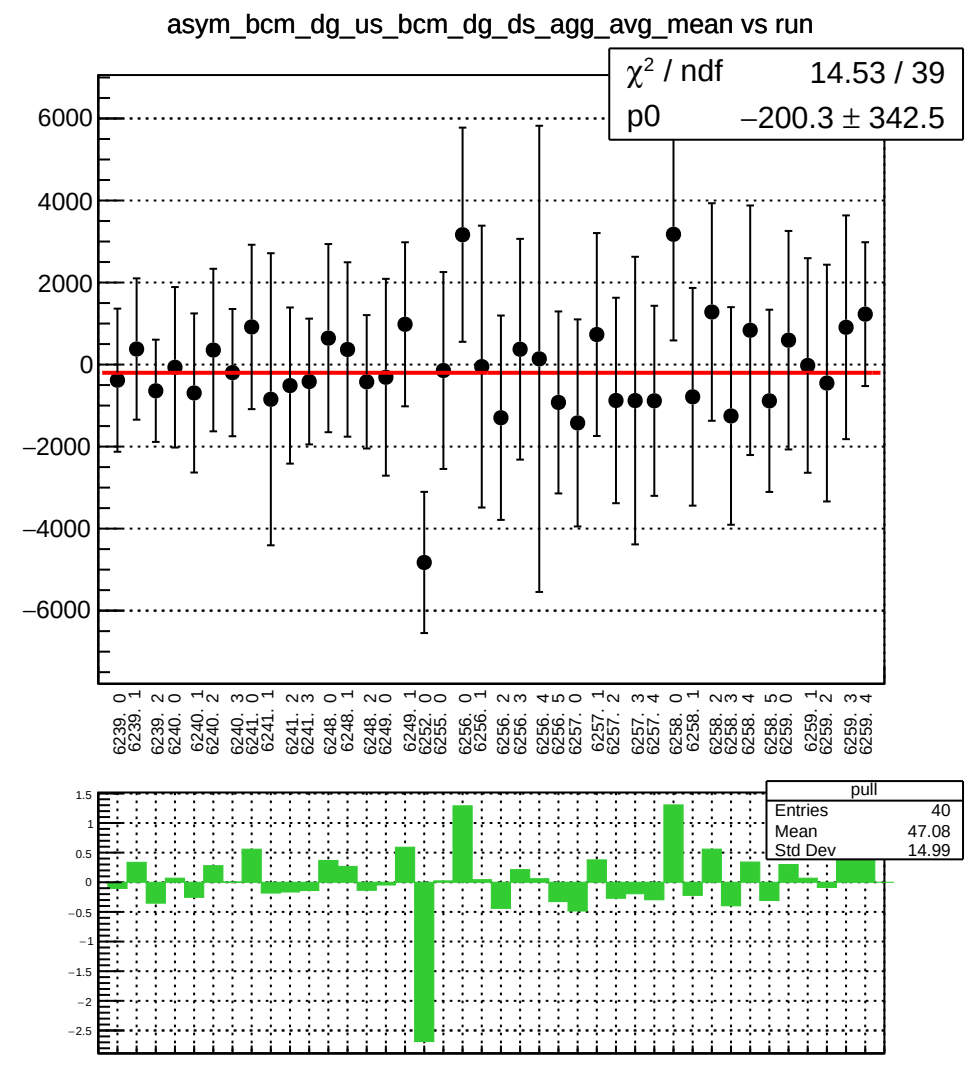

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 263.2 / 39
p0 23.27 ± 0.02583
24.5
24
23.5
23
22.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

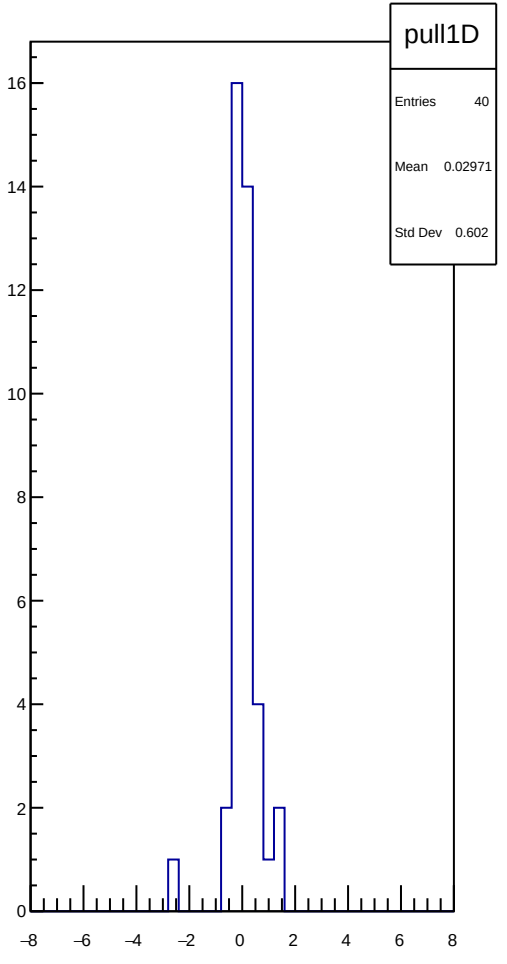

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.78 / 39
p0 −143.6 ± 339.9
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.83
Std Dev 11.46
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.03183
Std Dev 0.6071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

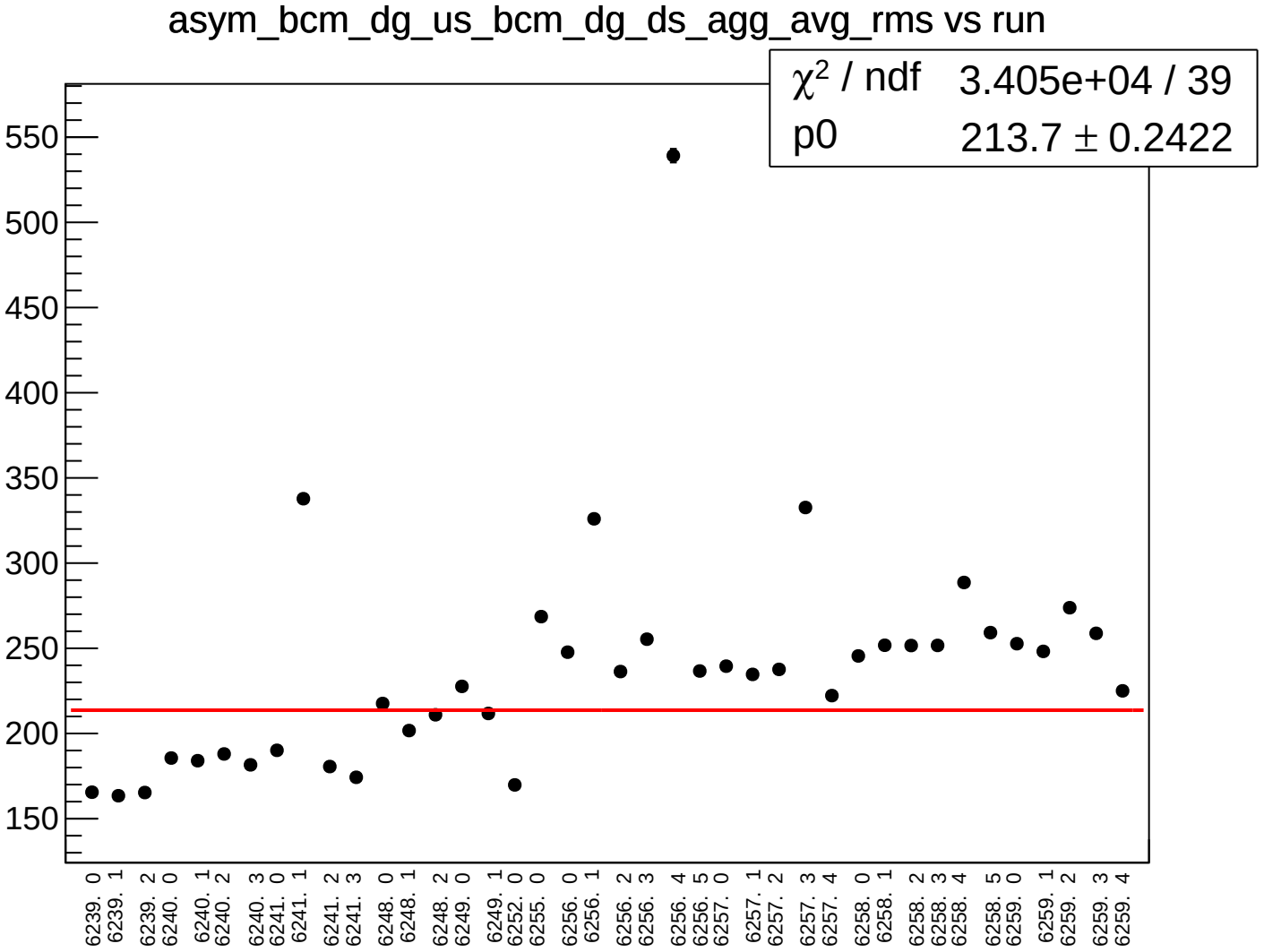

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.356e+04 / 39
p0 212.1 ± 0.2403
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

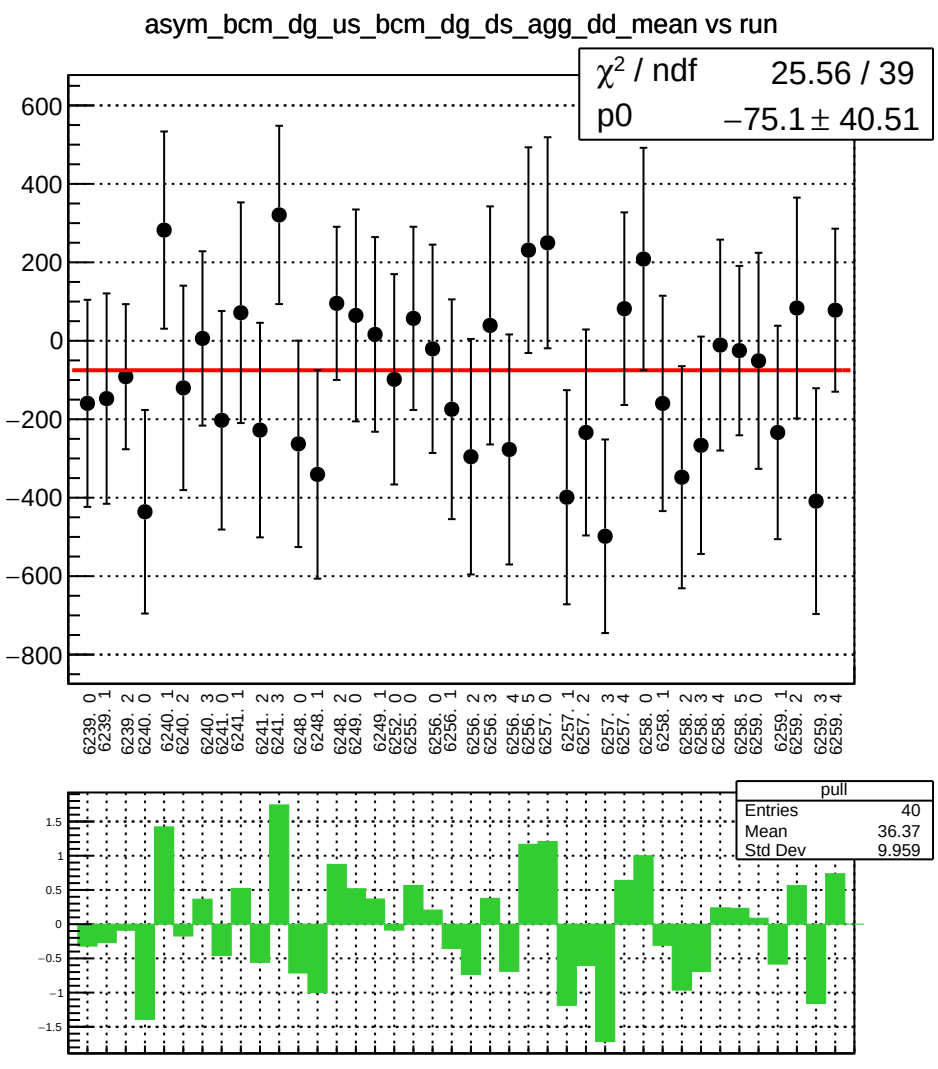

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 37.64 / 39
p0 9.745 ± 28.85
800
600
400
200
0
−200
−400
−600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 55.62
Std Dev 17.17
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.03806
Std Dev 0.9693
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

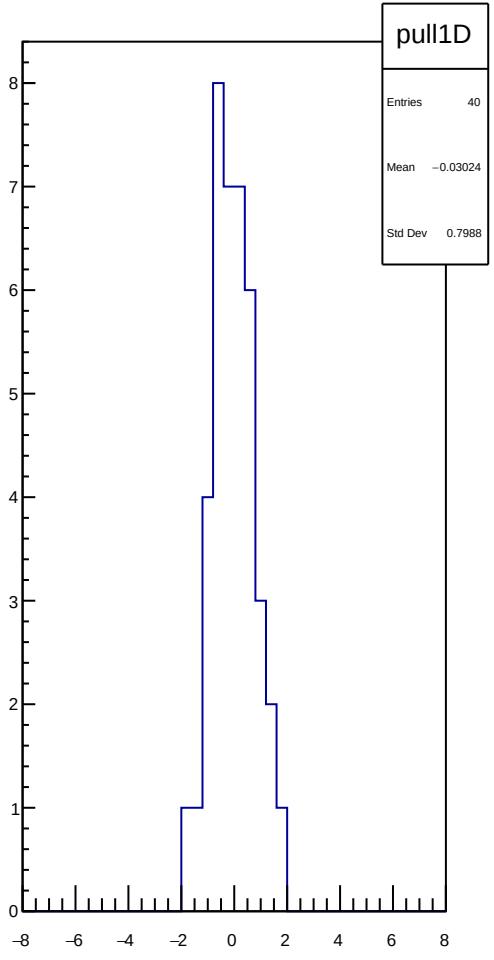

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2995 / 39
p0 18.36 ± 0.0204
21
20
19
18
17
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

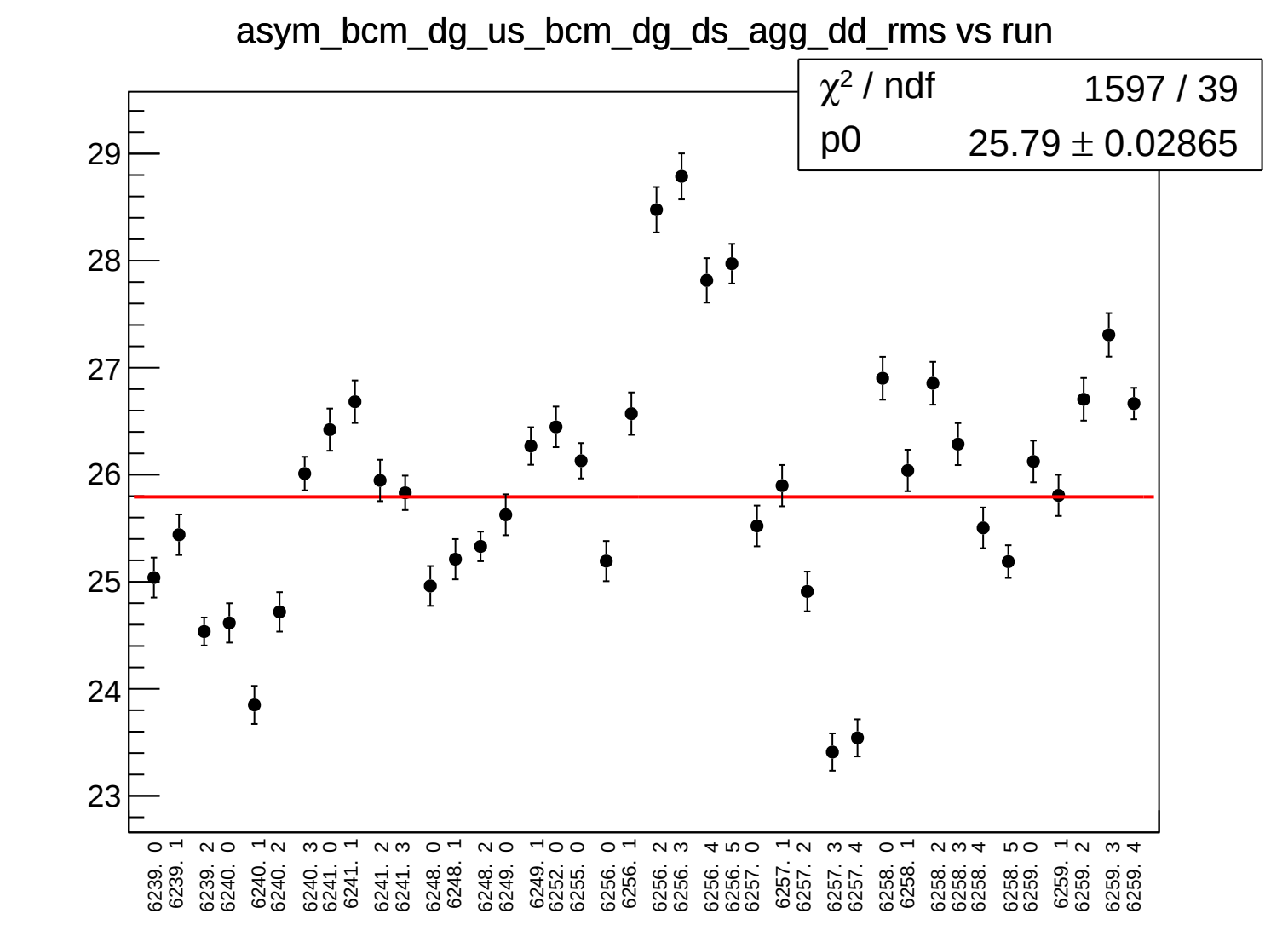

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.53 / 39
p0 −200.3 ± 342.5
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 47.08
Std Dev 14.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

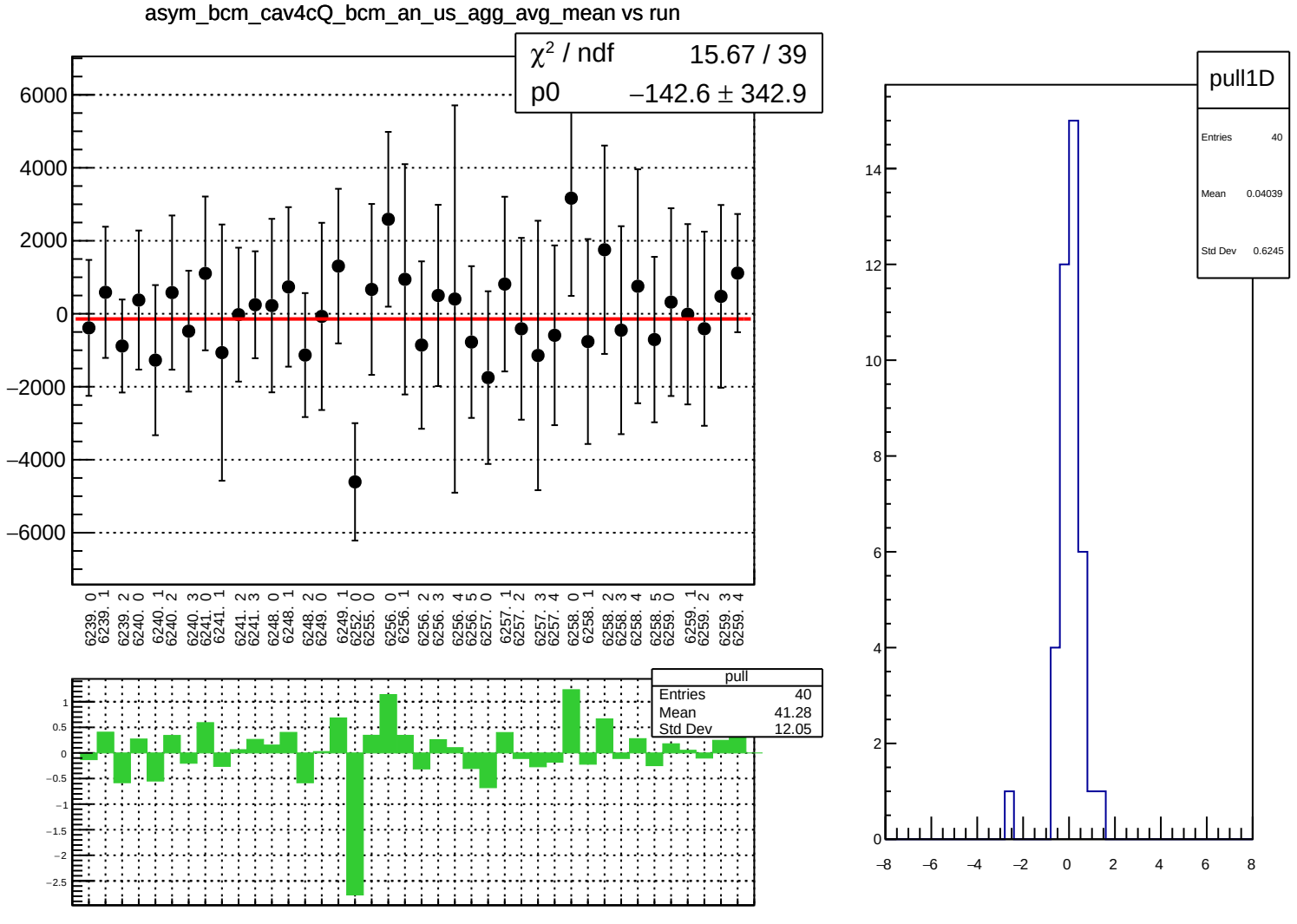

pull1D
Entries 40
Mean 0.02971
Std Dev 0.602
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

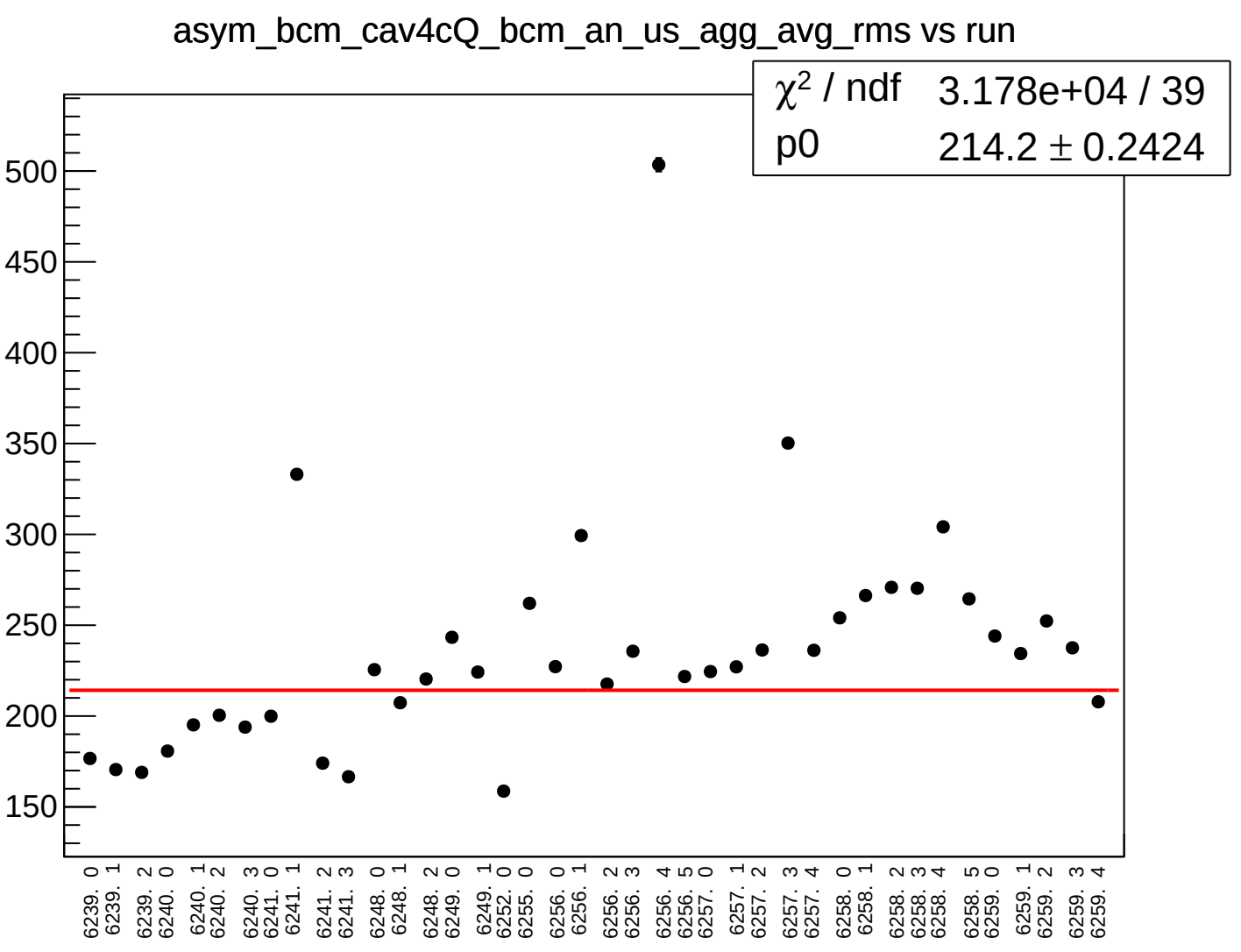

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.405e+04 / 39
p0 213.7 ± 0.2422
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

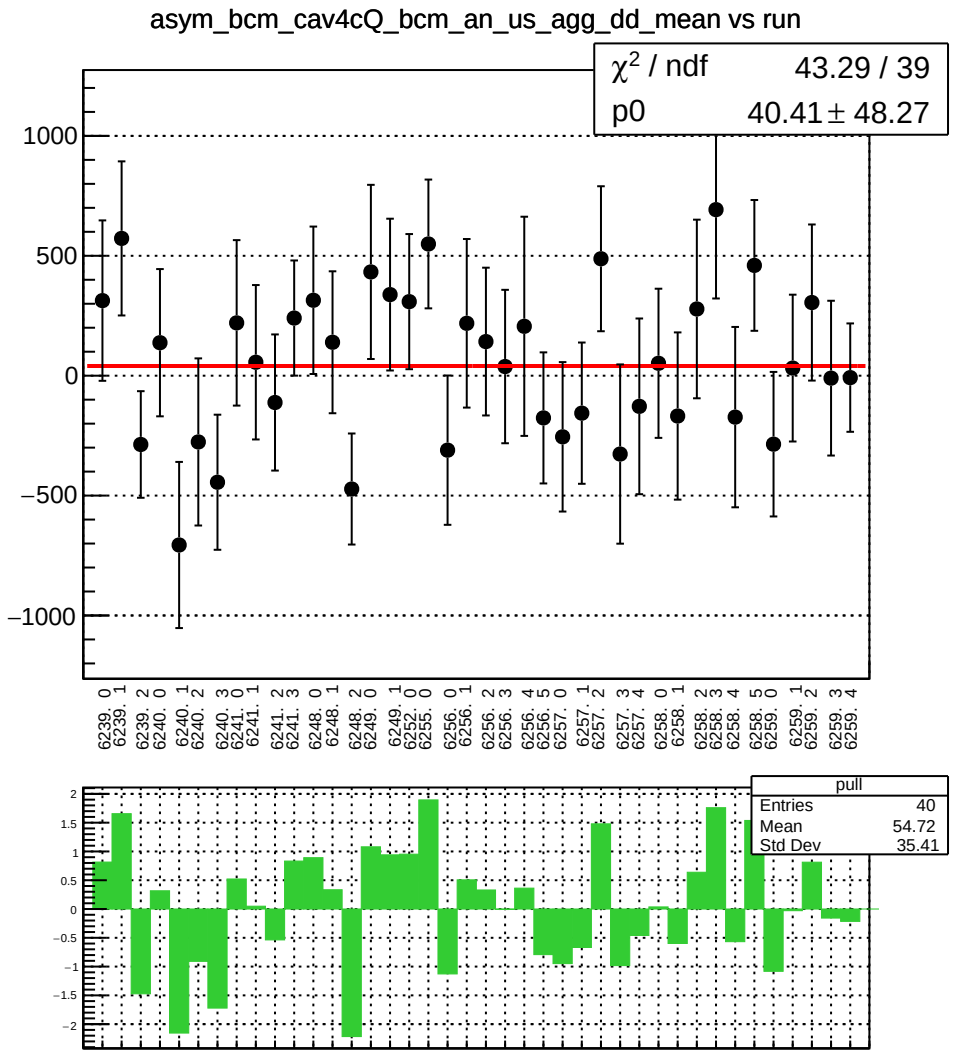

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 25.56 / 39
p0 −75.1 ± 40.51
600
400
200
0
−200
−400
−600
−800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 36.37
Std Dev 9.959
1.5
1
0.5
0
−0.5
−1
−1.5

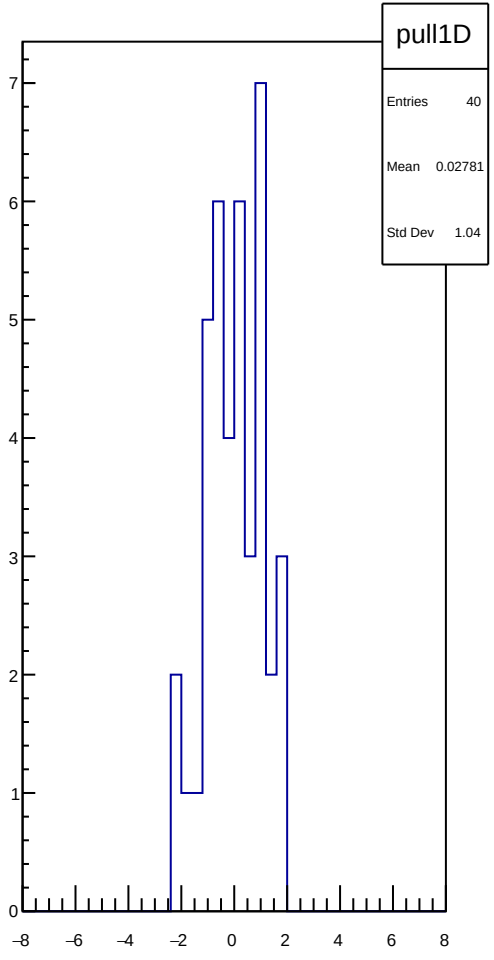

pull1D
Entries 40
Mean −0.03024
Std Dev 0.7988
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

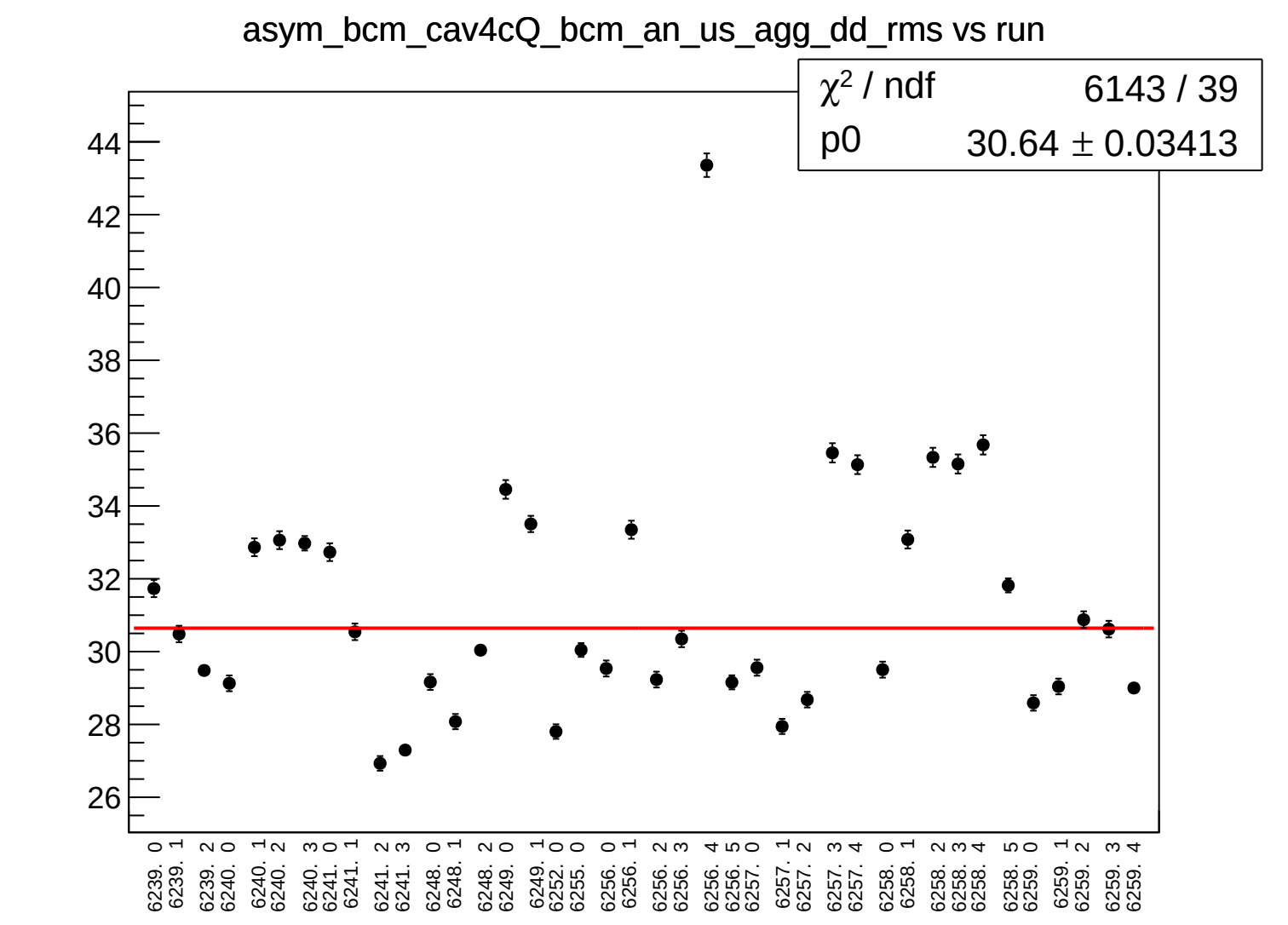

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1597 / 39
p0 25.79 ± 0.02865
29
28
27
26
25
24
23
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

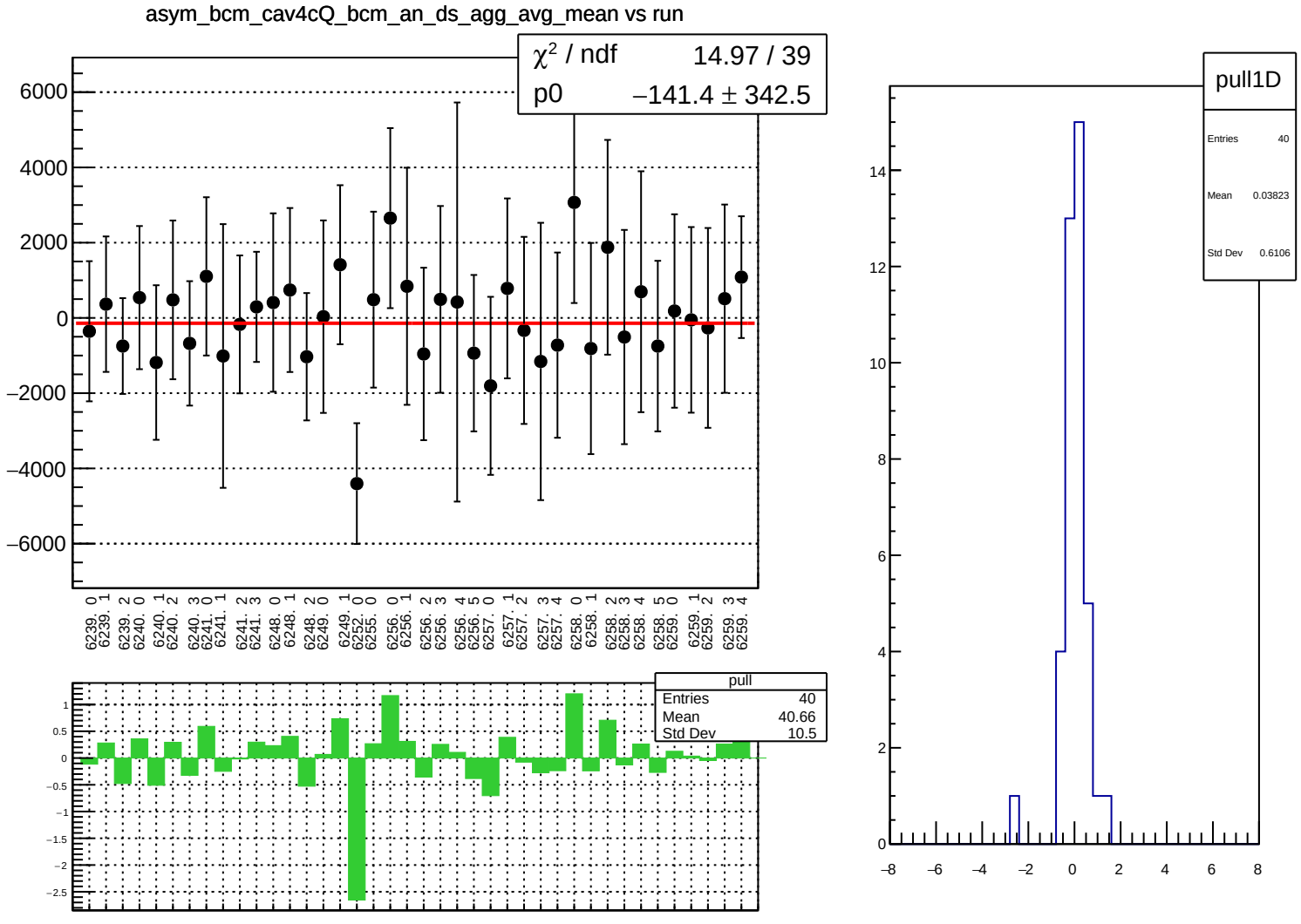

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.67 / 39
p0 −142.6 ± 342.9
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 41.28
Std Dev 12.05
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.04039
Std Dev 0.6245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

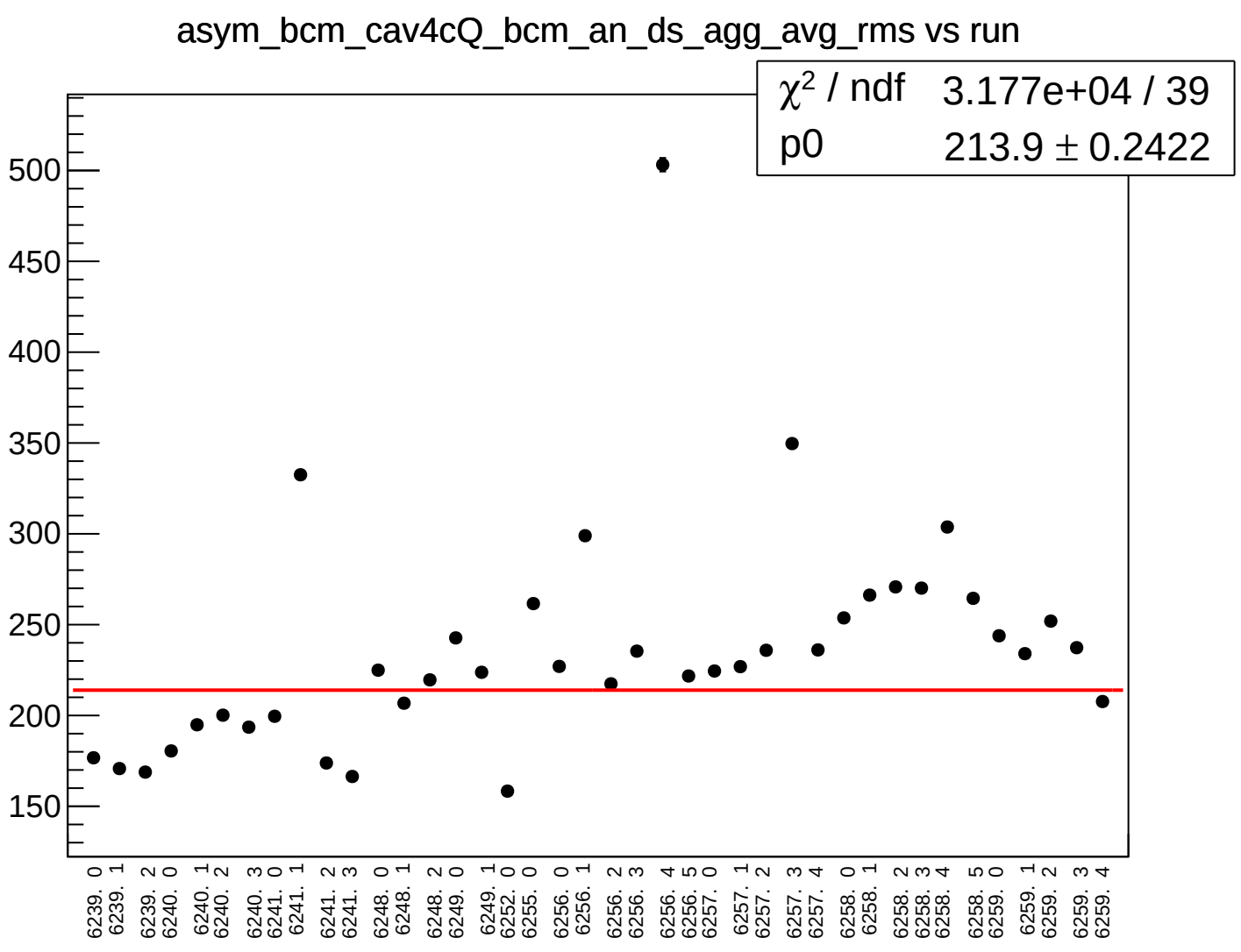

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.178e+04 / 39
p0 214.2 ± 0.2424
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

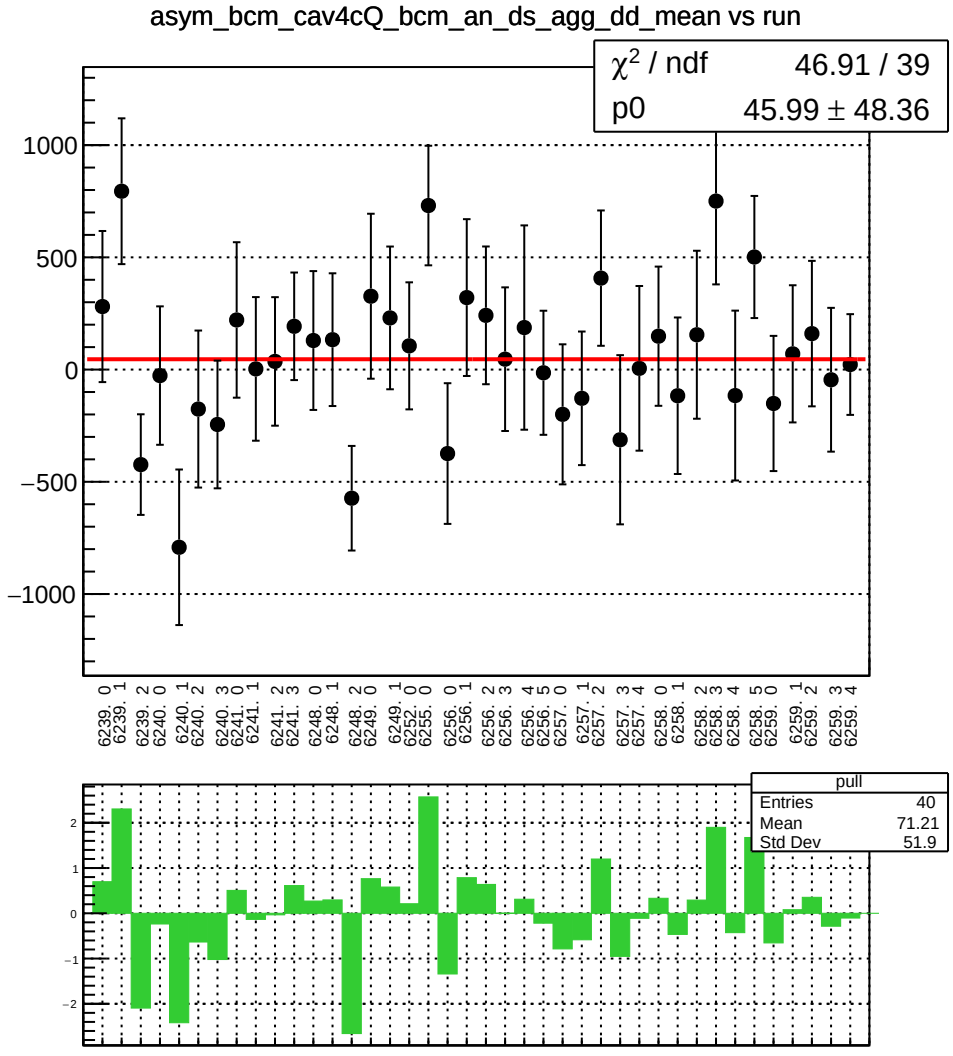

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 43.29 / 39
p0 40.41 ± 48.27
1000
500
0
−500
−1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 54.72
Std Dev 35.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

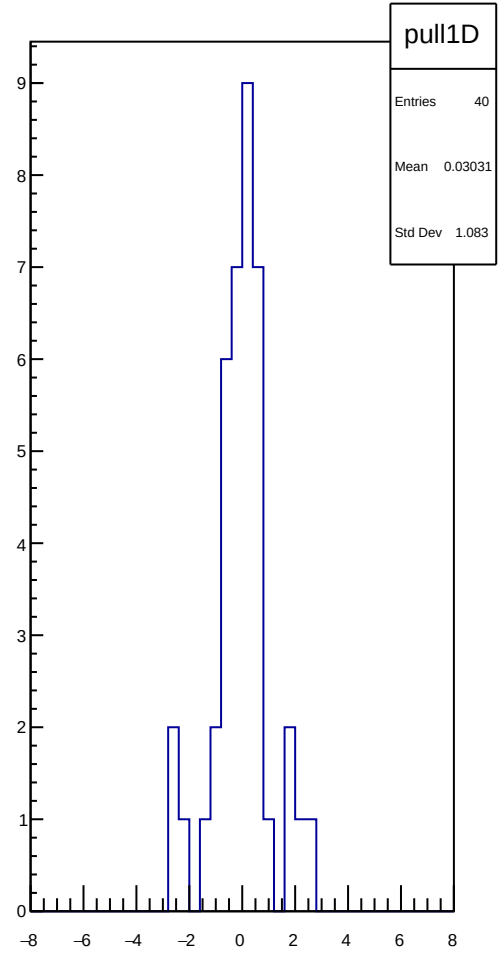

pull1D
Entries 40
Mean 0.02781
Std Dev 1.04
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

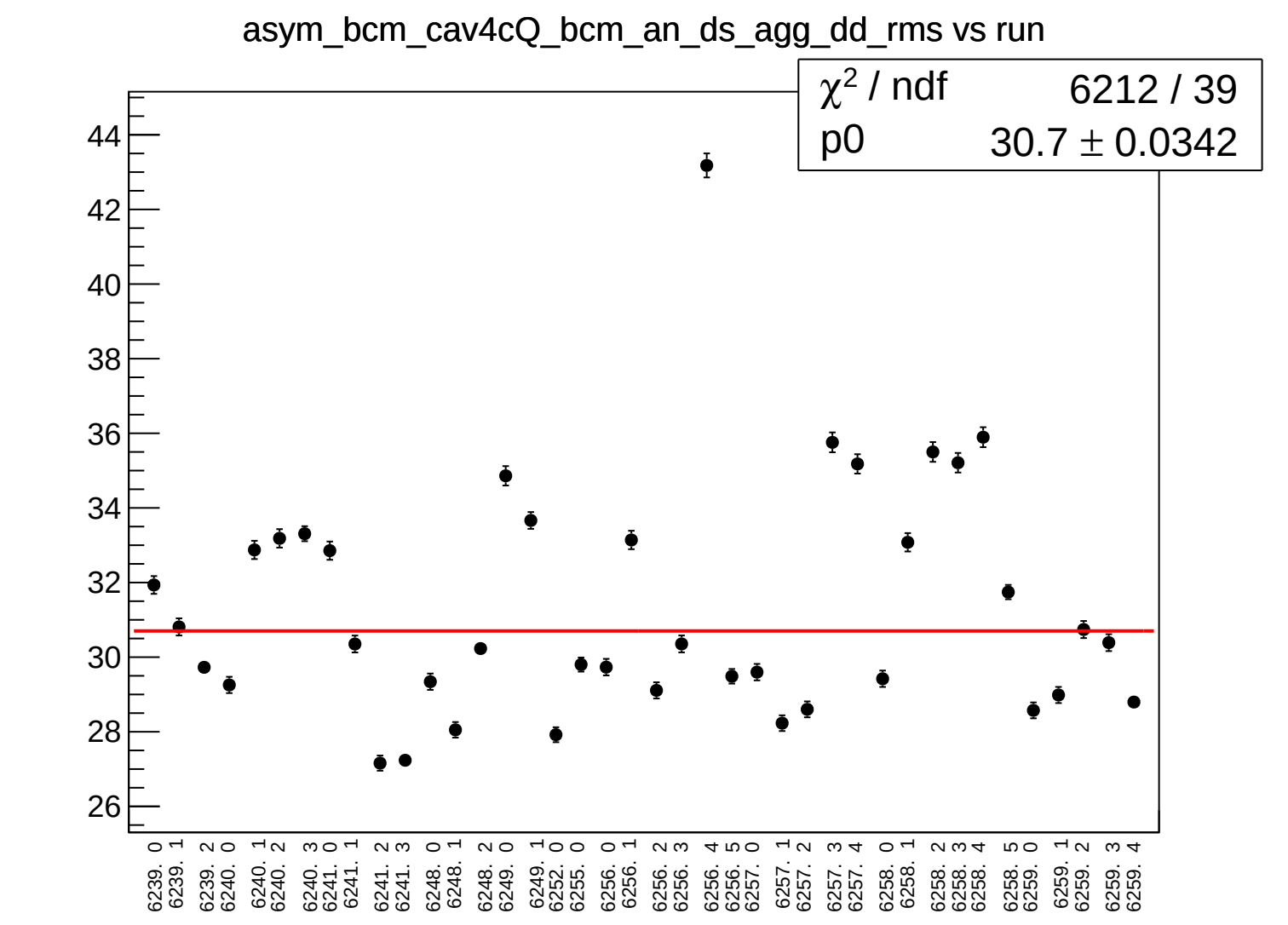

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6143 / 39
p0 30.64 ± 0.03413
44
42
40
38
36
34
32
30
28
26
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

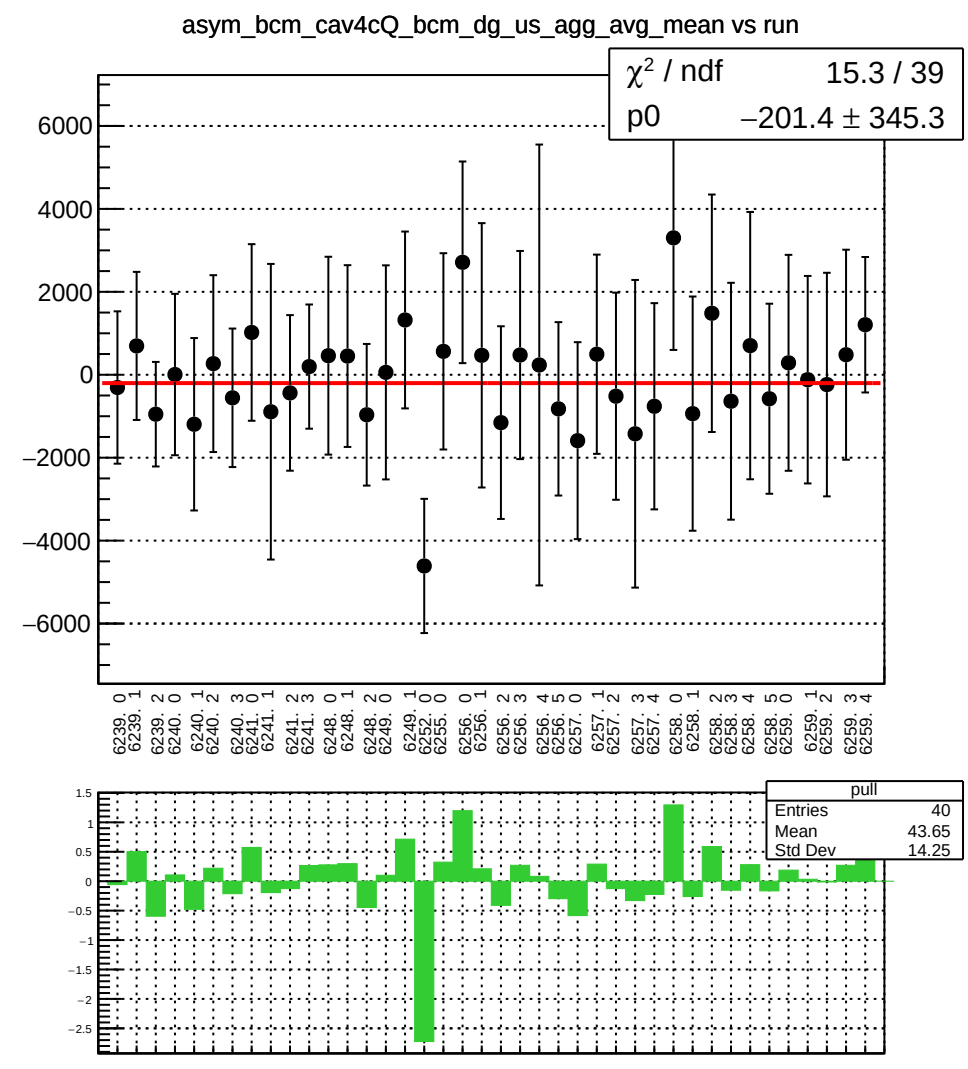

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.97 / 39
p0 −141.4 ± 342.5
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 40.66
Std Dev 10.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.03823
Std Dev 0.6106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

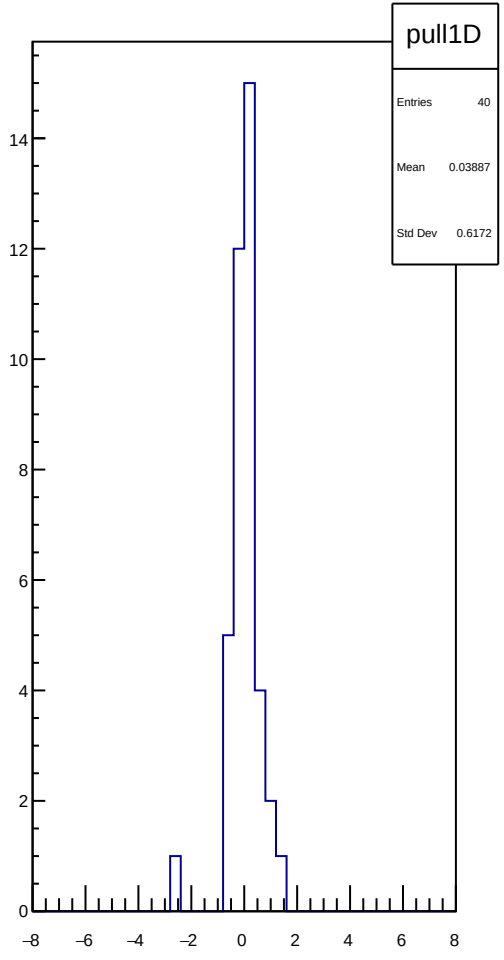

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.177e+04 / 39
p0 213.9 ± 0.2422
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

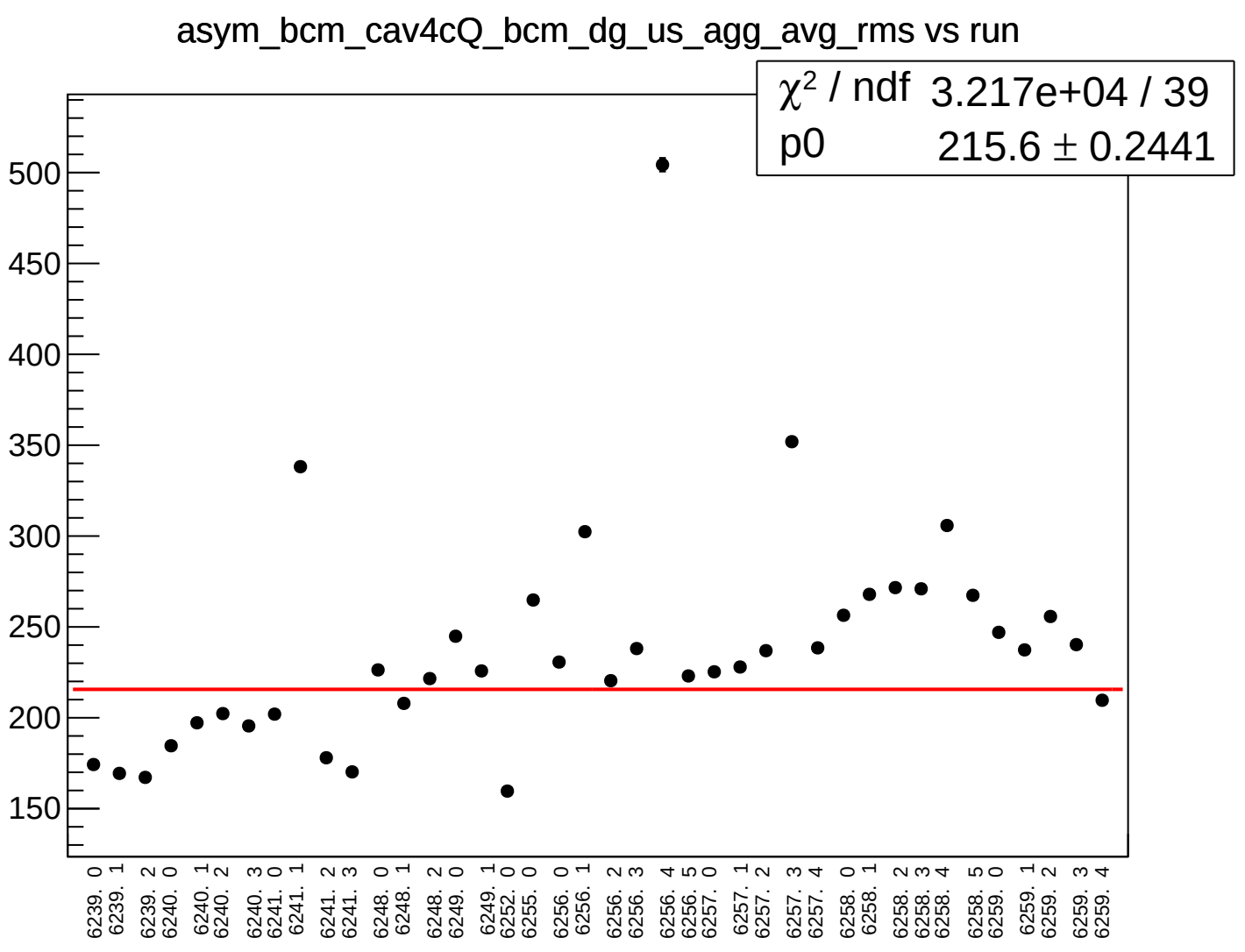

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.91 / 39
p0 45.99 ± 48.36
1000
500
0
−500
−1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 71.21
Std Dev 51.9
2
1
0
−1
−2

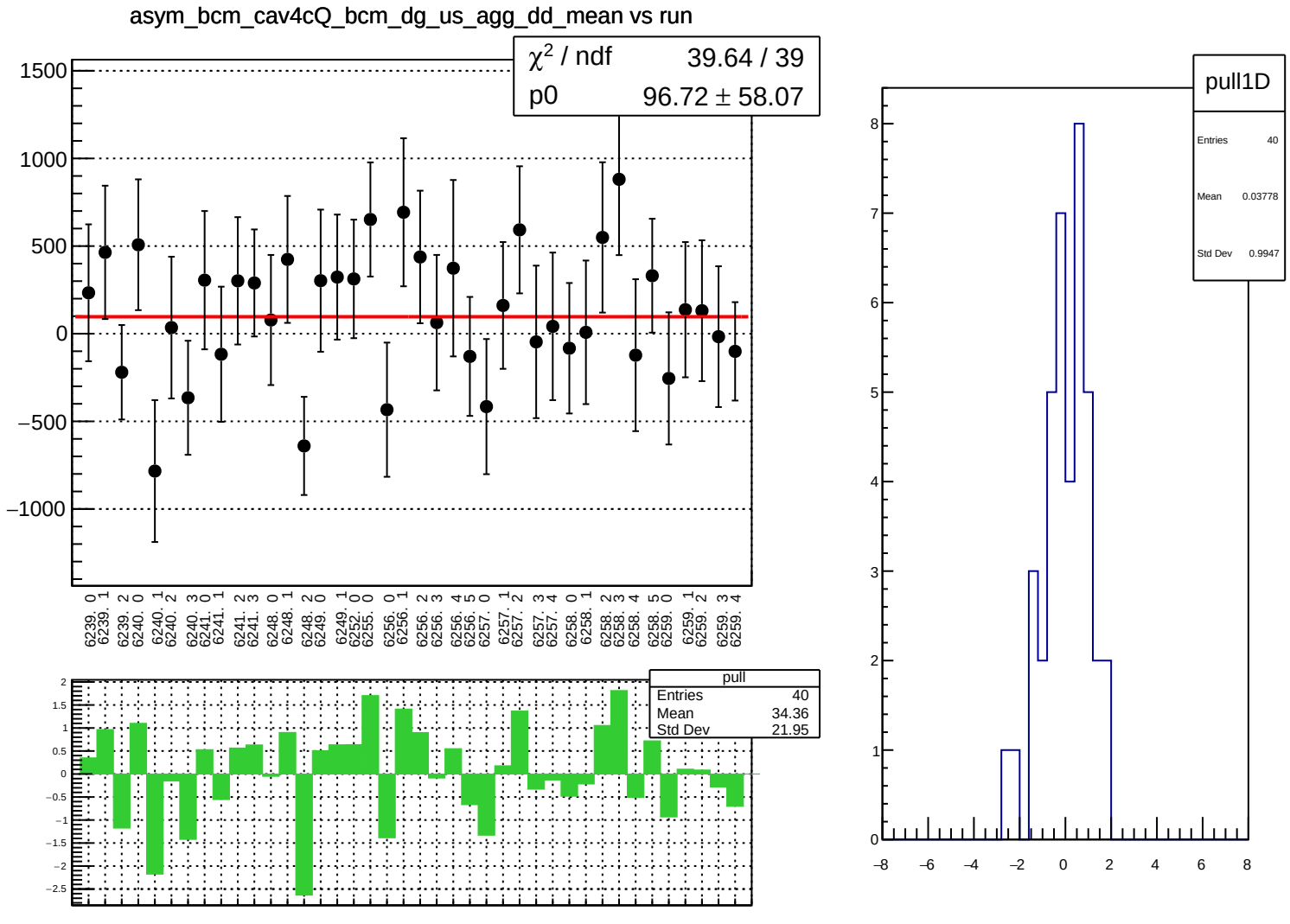

pull1D
Entries 40
Mean 0.03031
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

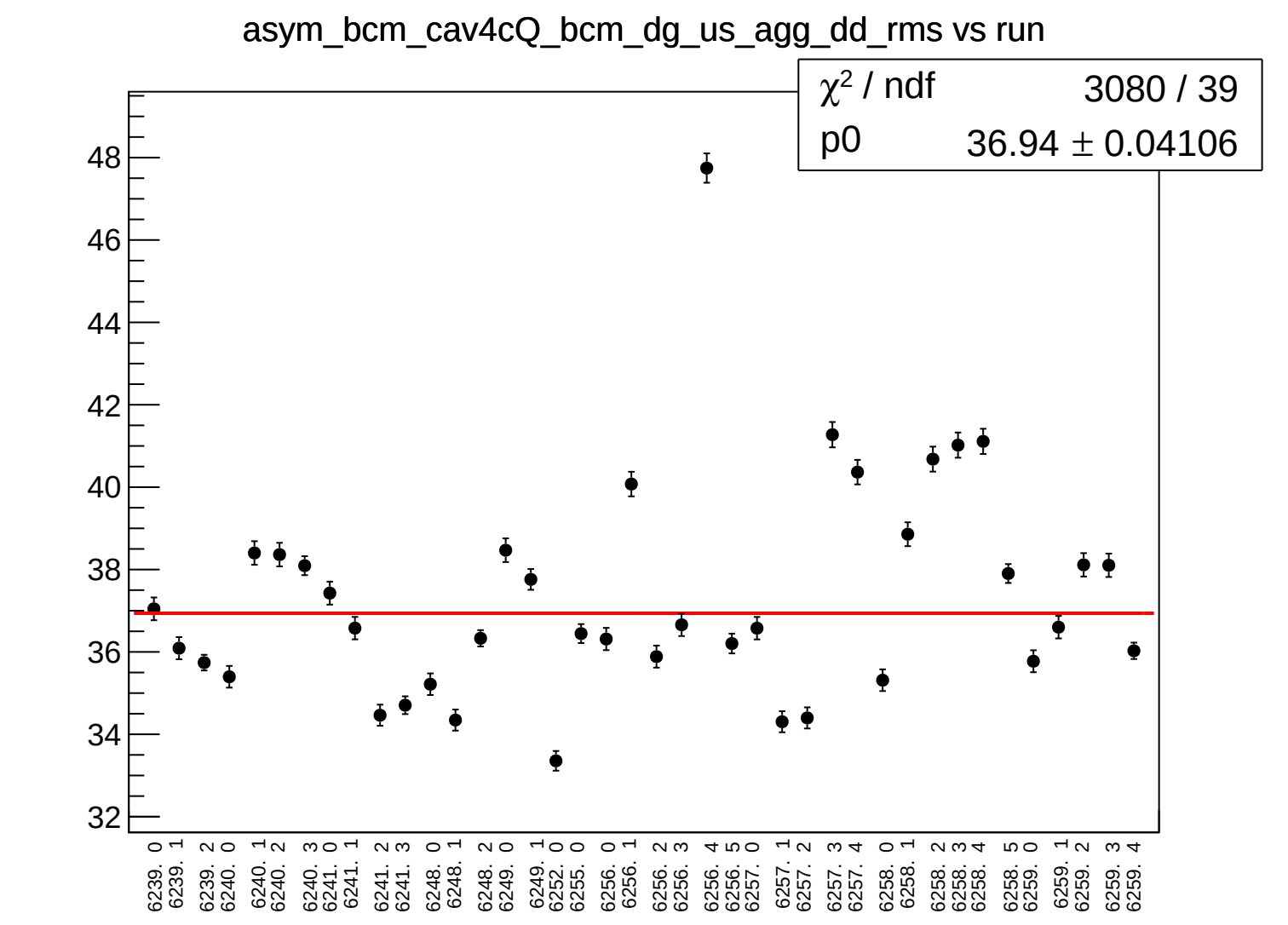

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6212 / 39
p0 30.7 ± 0.0342
44
42
40
38
36
34
32
30
28
26
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

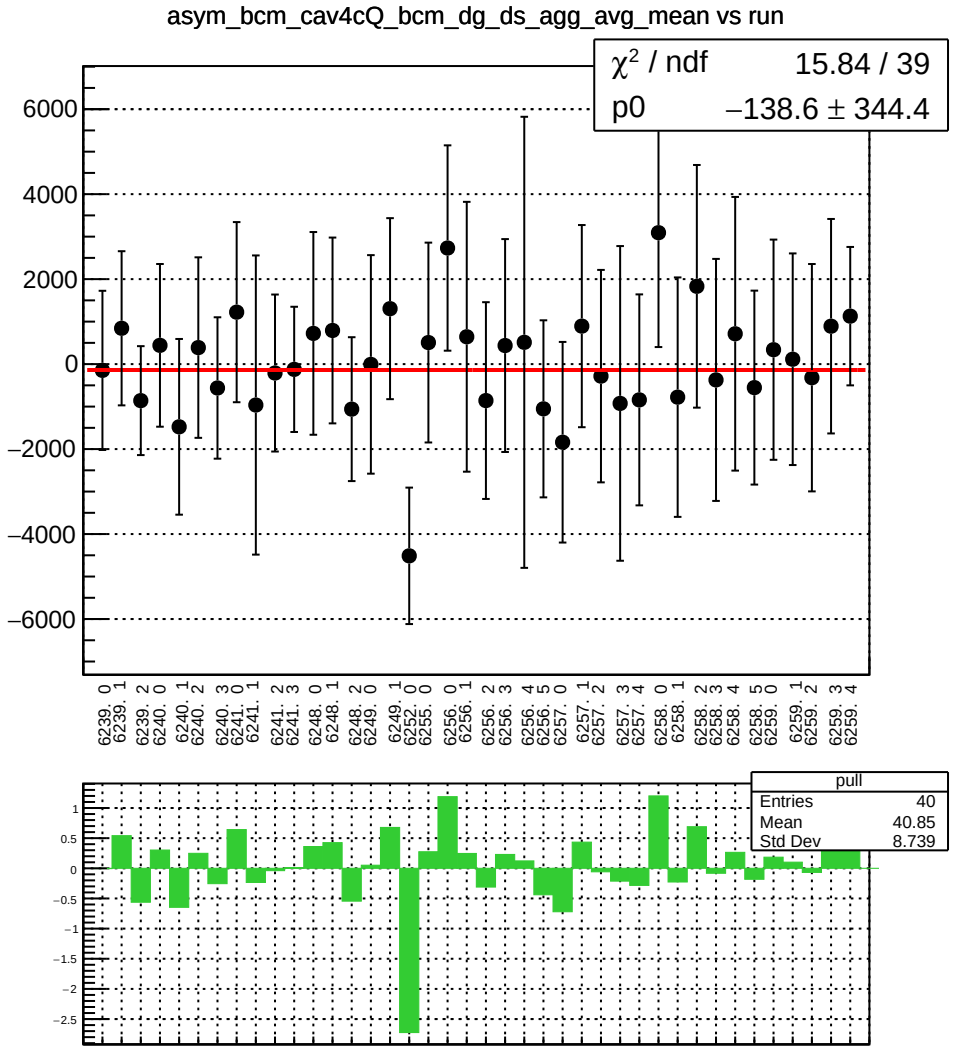

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 15.3 / 39
p0 −201.4 ± 345.3
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.65
Std Dev 14.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

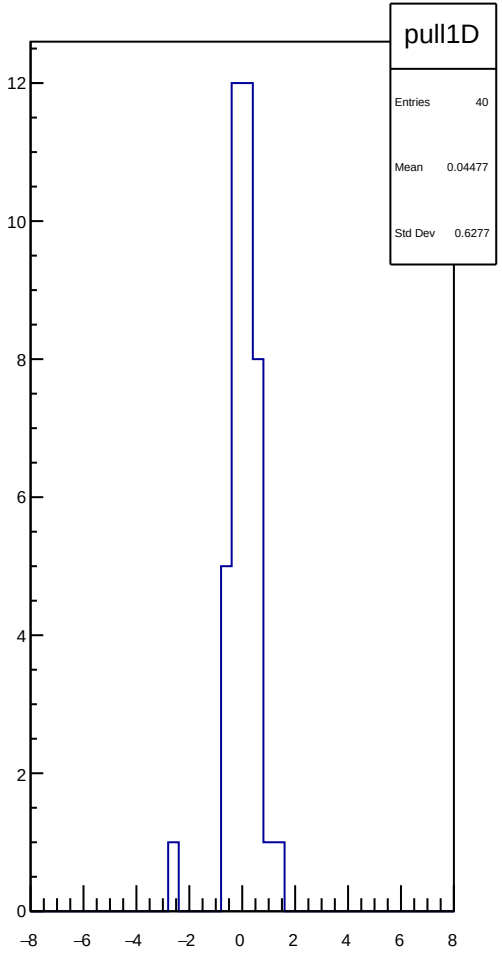

pull1D
Entries 40
Mean 0.03887
Std Dev 0.6172
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

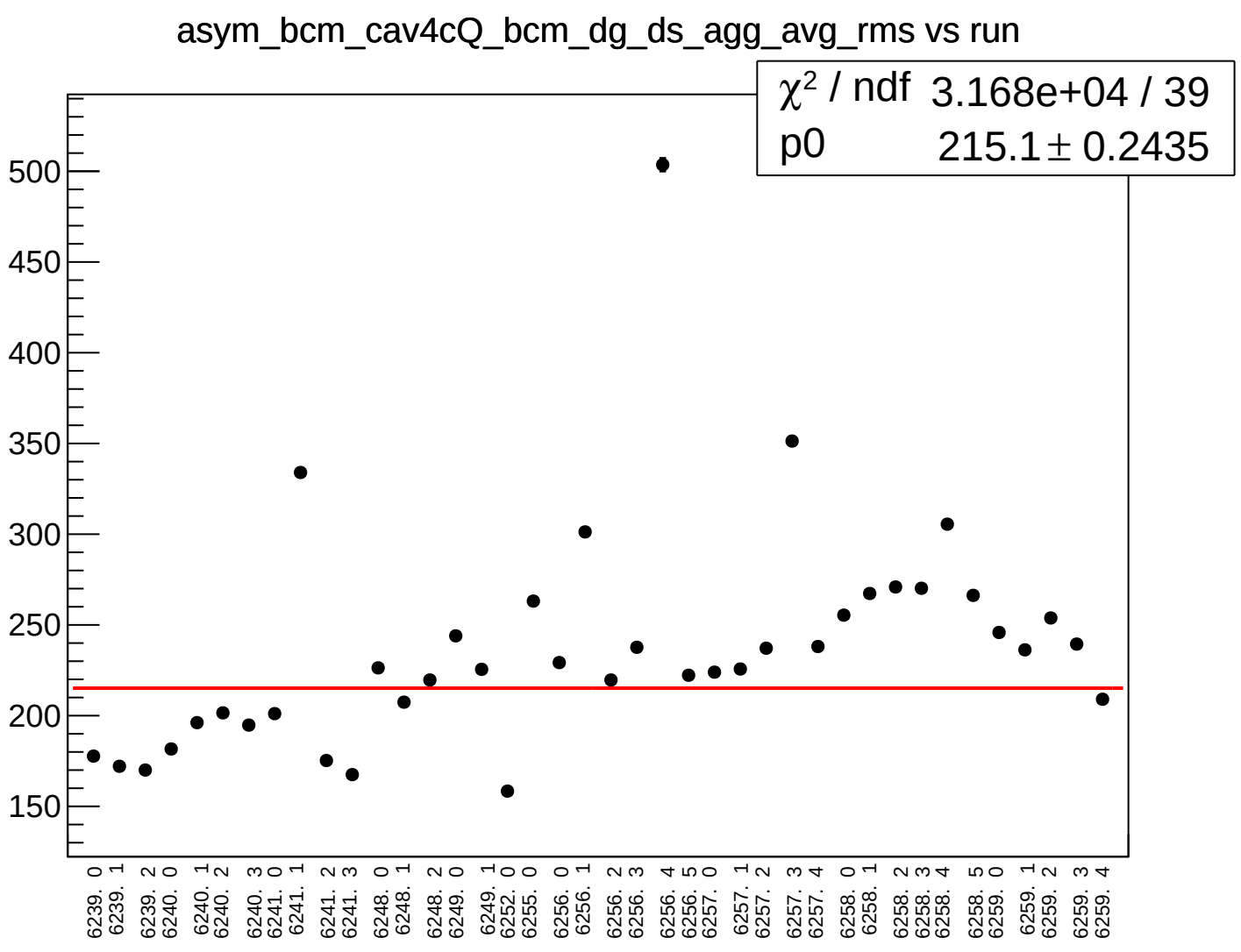

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.217e+04 / 39
p0 215.6 ± 0.2441
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

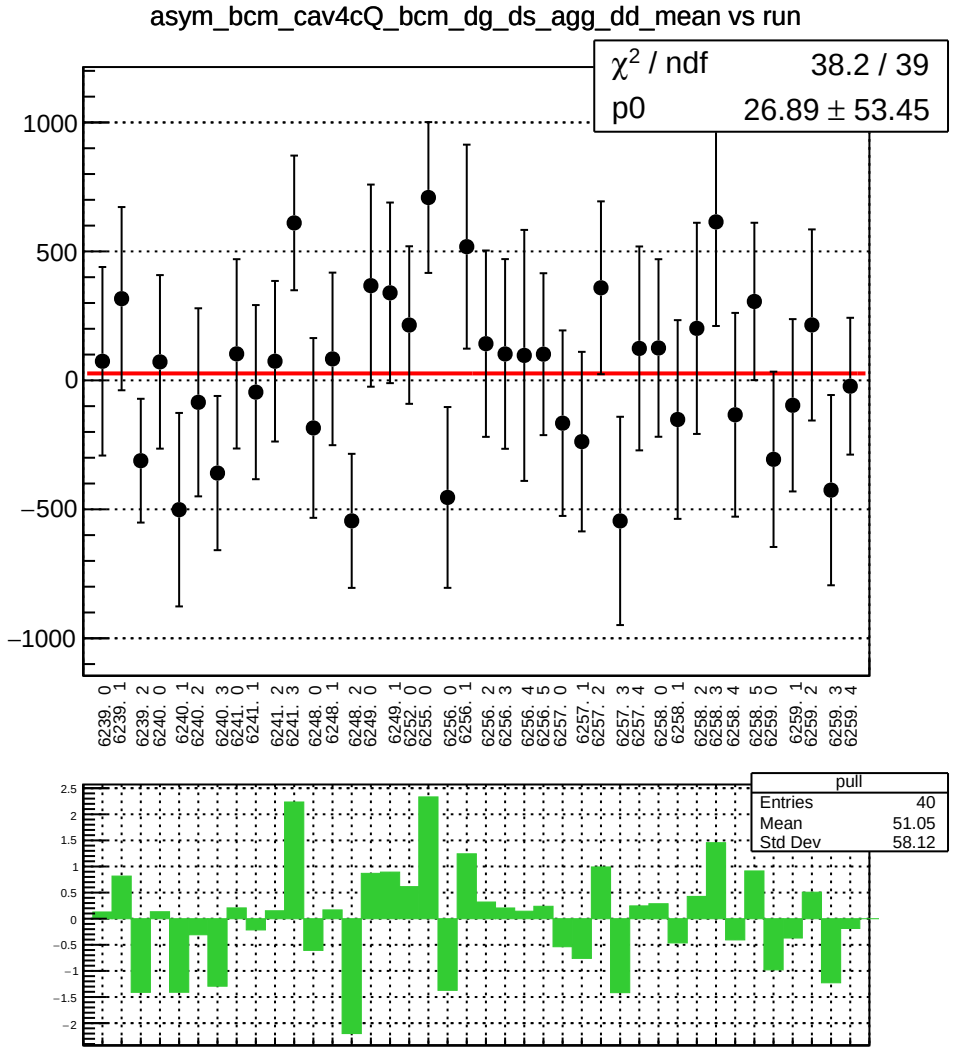

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 39.64 / 39
p0 96.72 ± 58.07
1500
1000
500
0
−500
−1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 34.36
Std Dev 21.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.03778
Std Dev 0.9947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

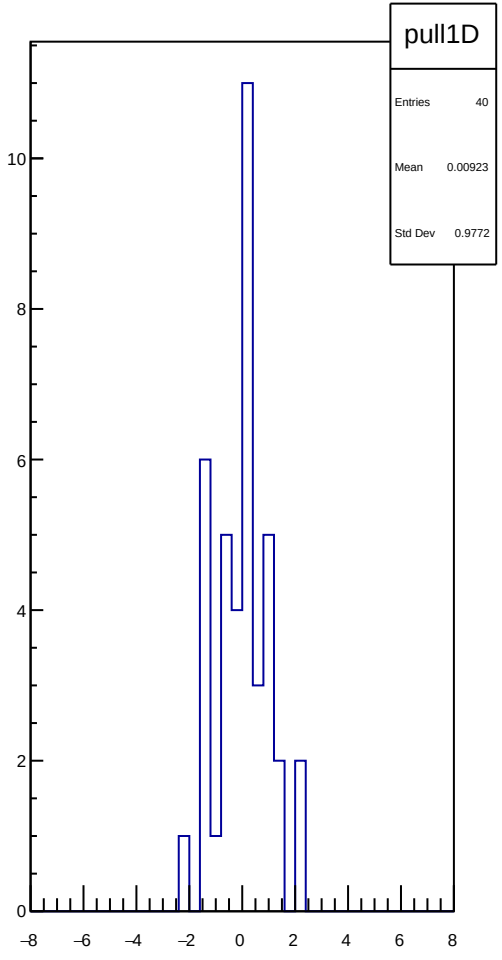

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3080 / 39
p0 36.94 ± 0.04106
48
46
44
42
40
38
36
34
32
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

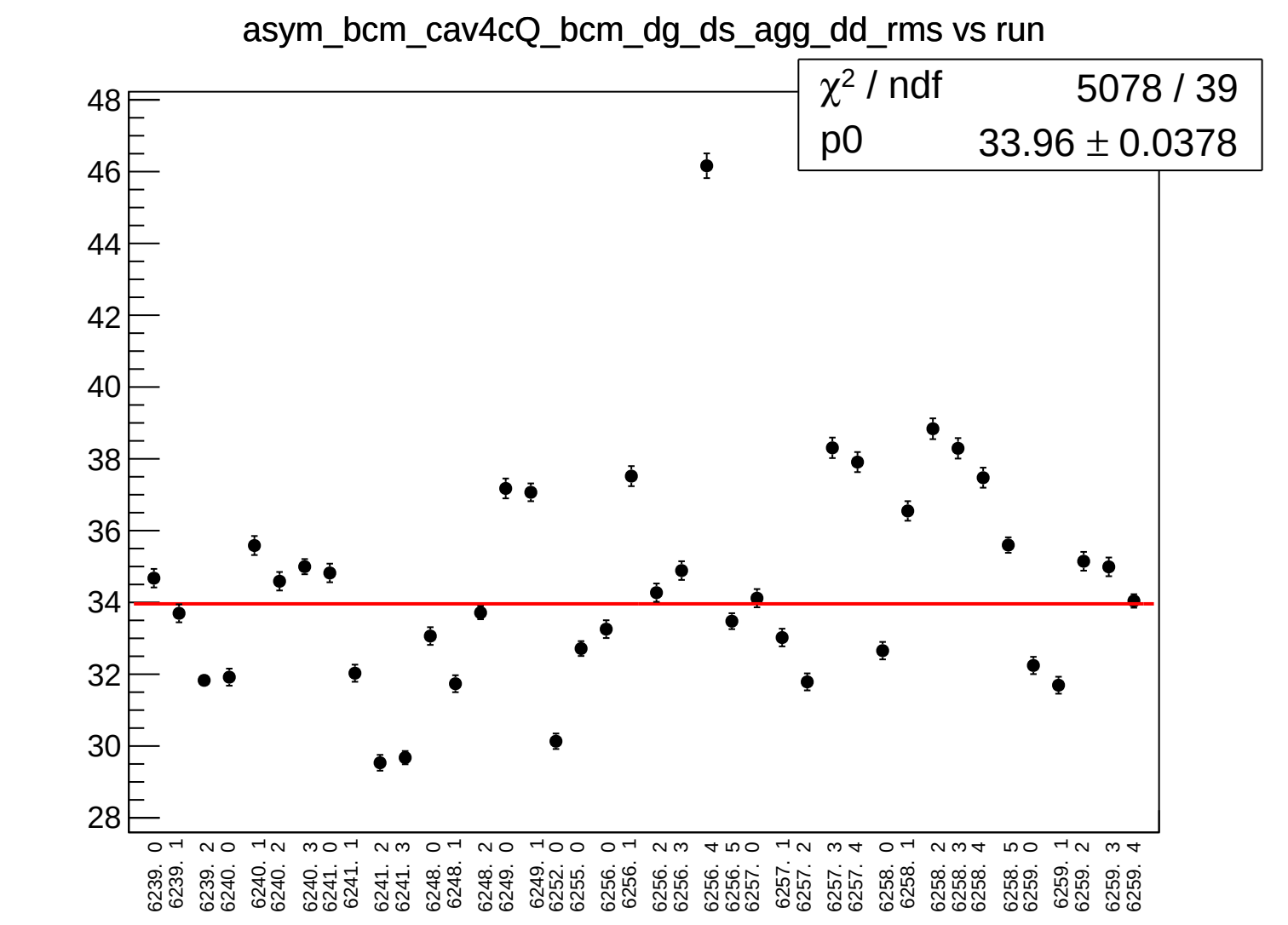

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.84 / 39
p0 −138.6 ± 344.4
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 40.85
Std Dev 8.739
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

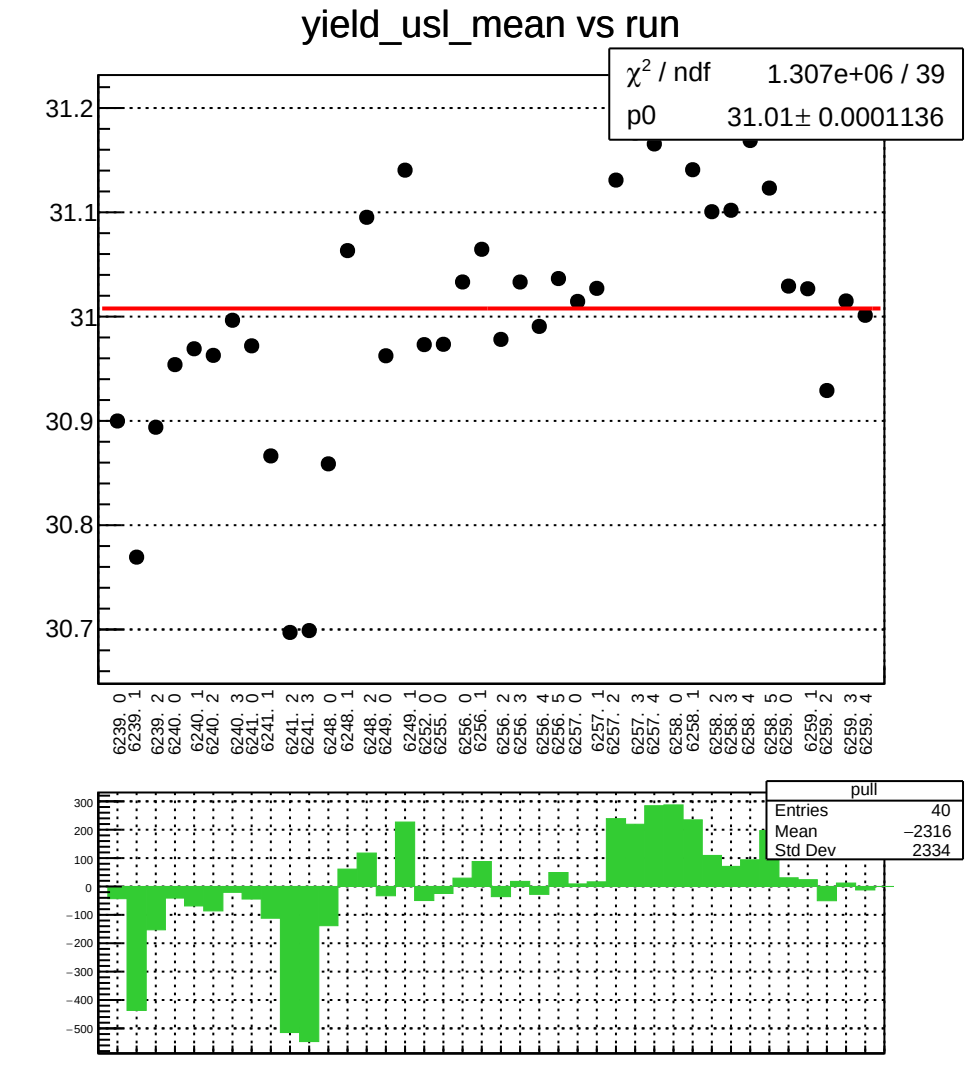

pull1D
Entries 40
Mean 0.04477
Std Dev 0.6277
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

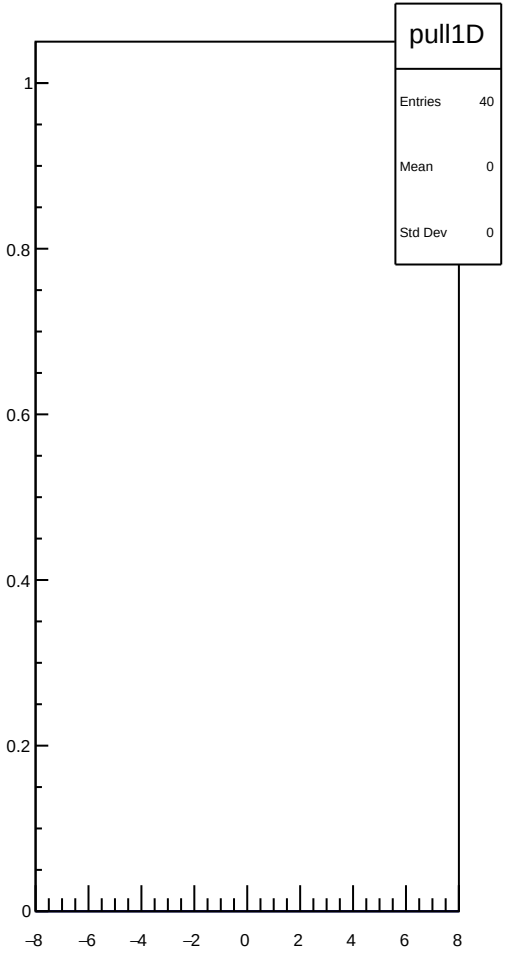

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.168e+04 / 39
p0 215.1 ± 0.2435
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

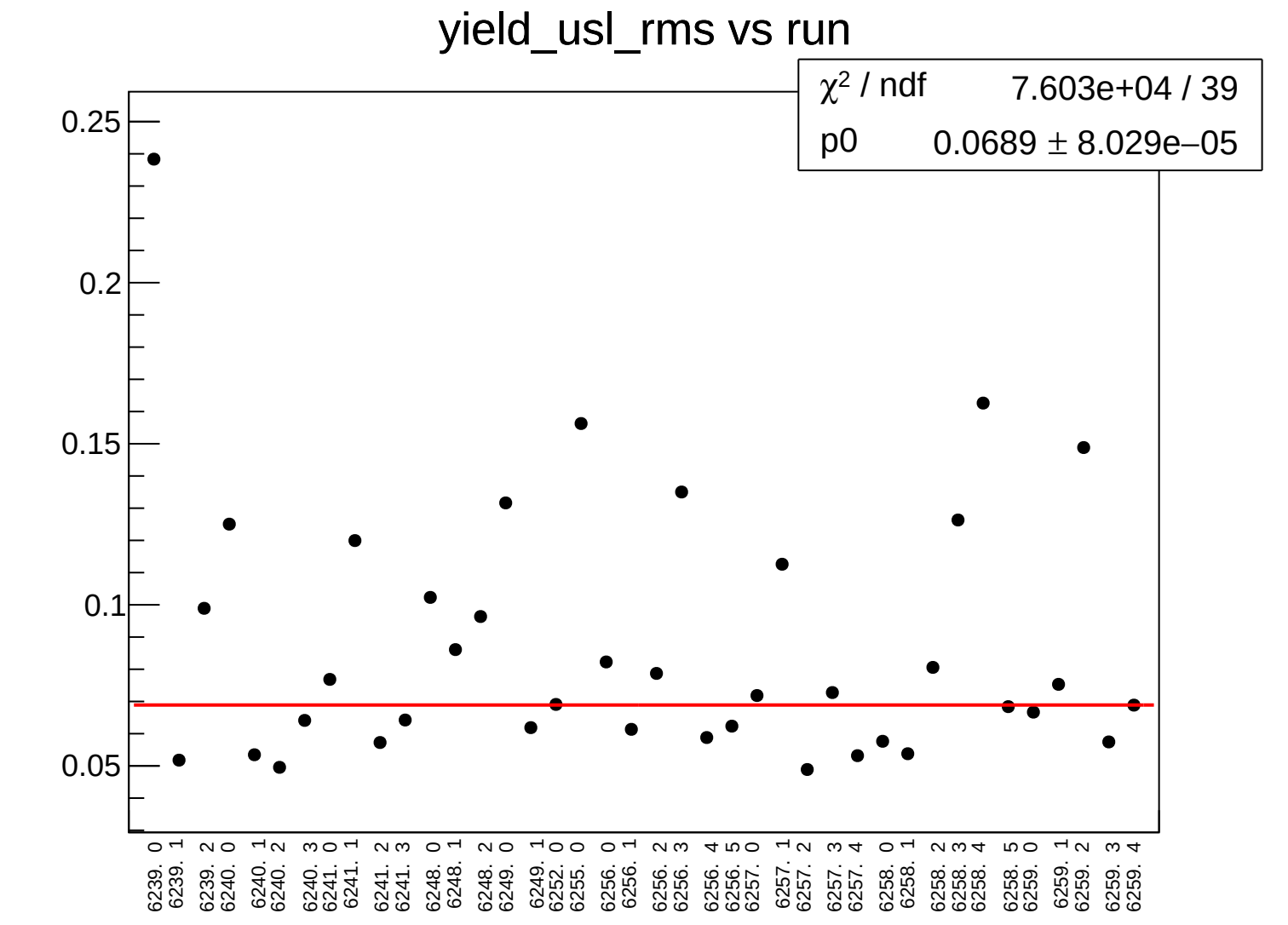

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 38.2 / 39
p0 26.89 ± 53.45
1000
500
0
−500
−1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 51.05
Std Dev 58.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

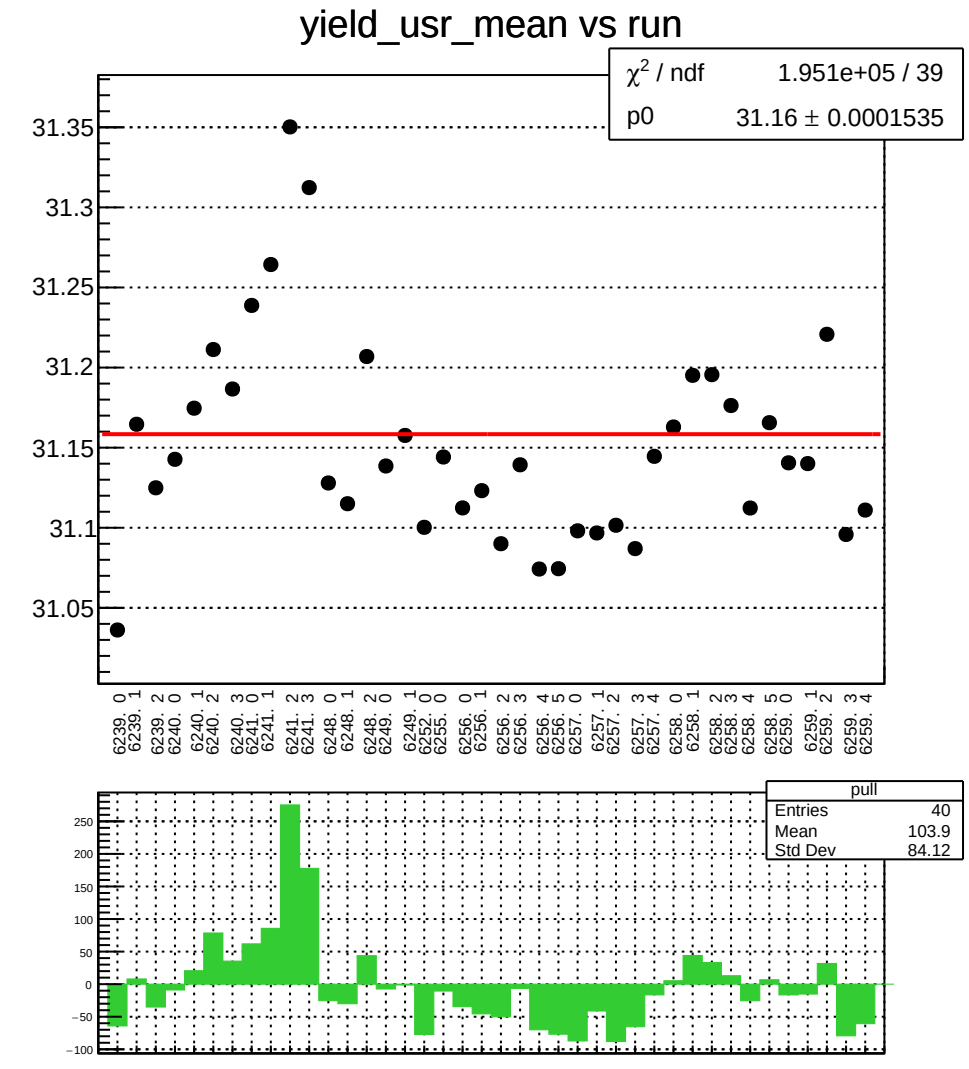

pull1D
Entries 40
Mean 0.00923
Std Dev 0.9772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

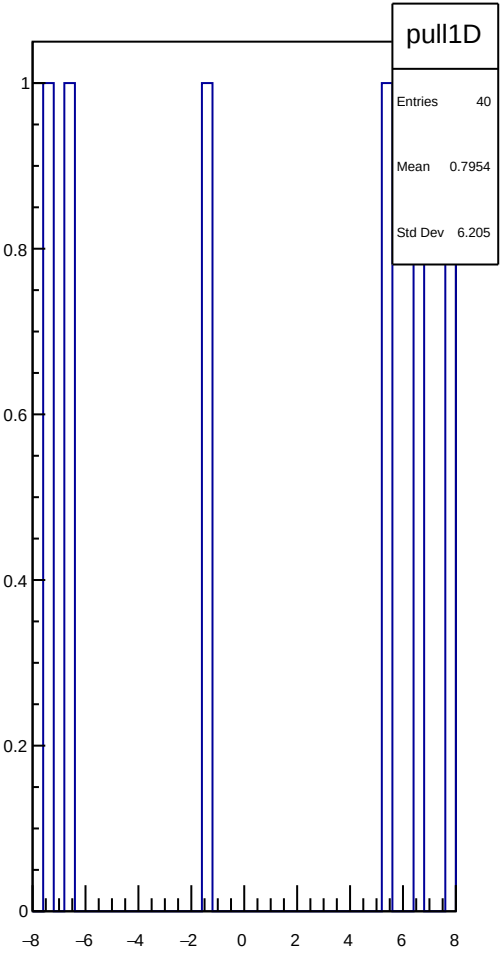

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5078 / 39
p0 33.96 ± 0.0378
48
46
44
42
40
38
36
34
32
30
28
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

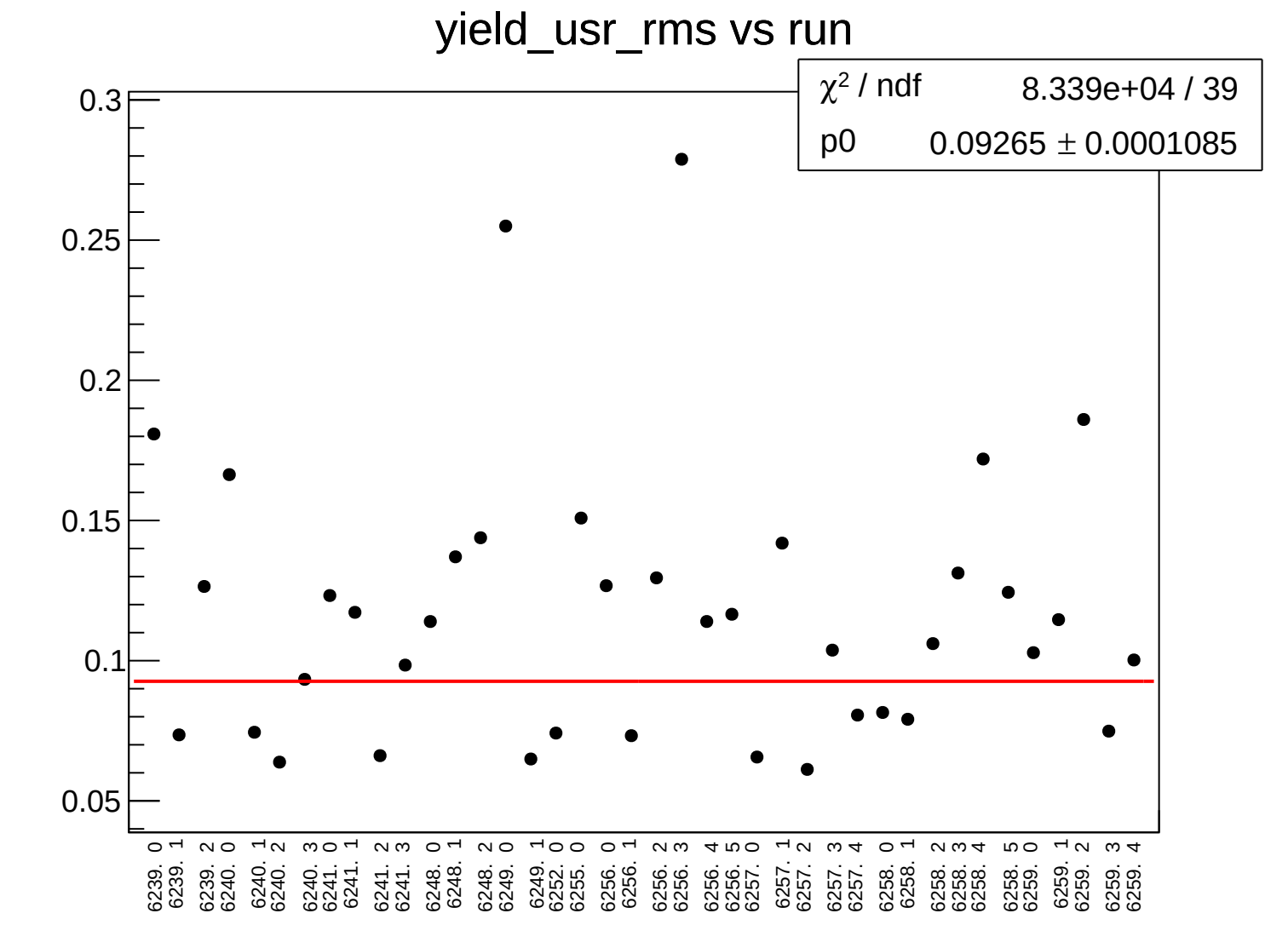

yield_usl_mean vs run
χ² / ndf 1.307e+06 / 39
p0 31.01± 0.0001136
31.2
31.1
31
30.9
30.8
30.7
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −2316
Std Dev 2334
300
200
100
0
−100
−200
−300
−400
−500

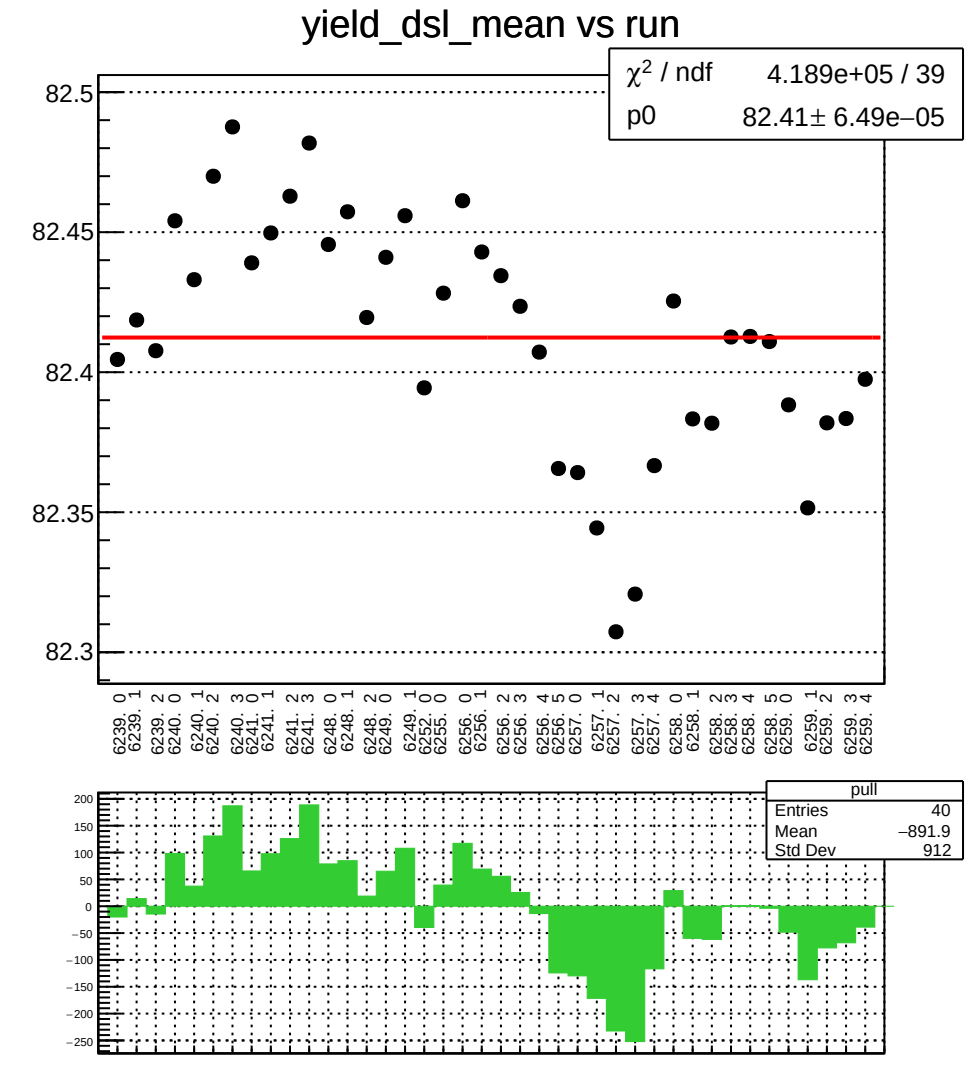

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

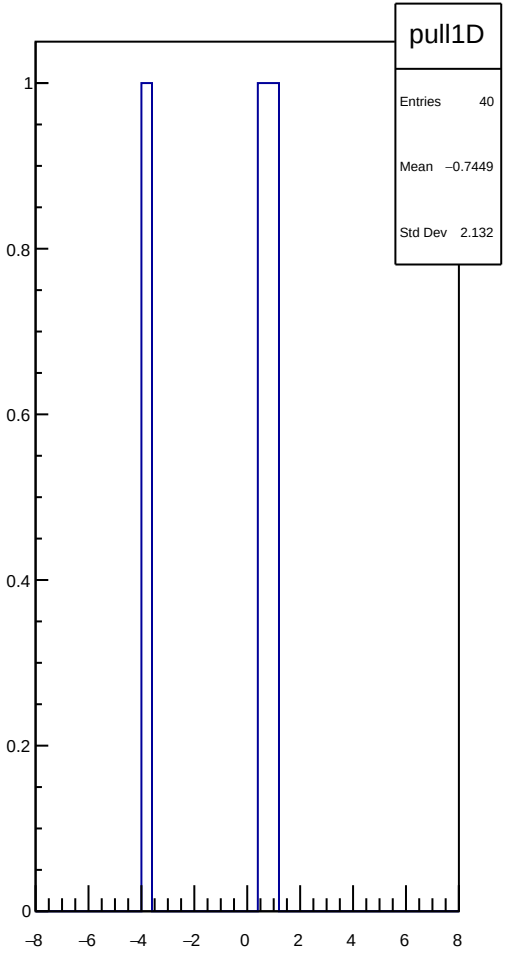

yield_usl_rms vs run
χ² / ndf 7.603e+04 / 39
p0 0.0689 ± 8.029e−05
0.25
0.2
0.15
0.1
0.05
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

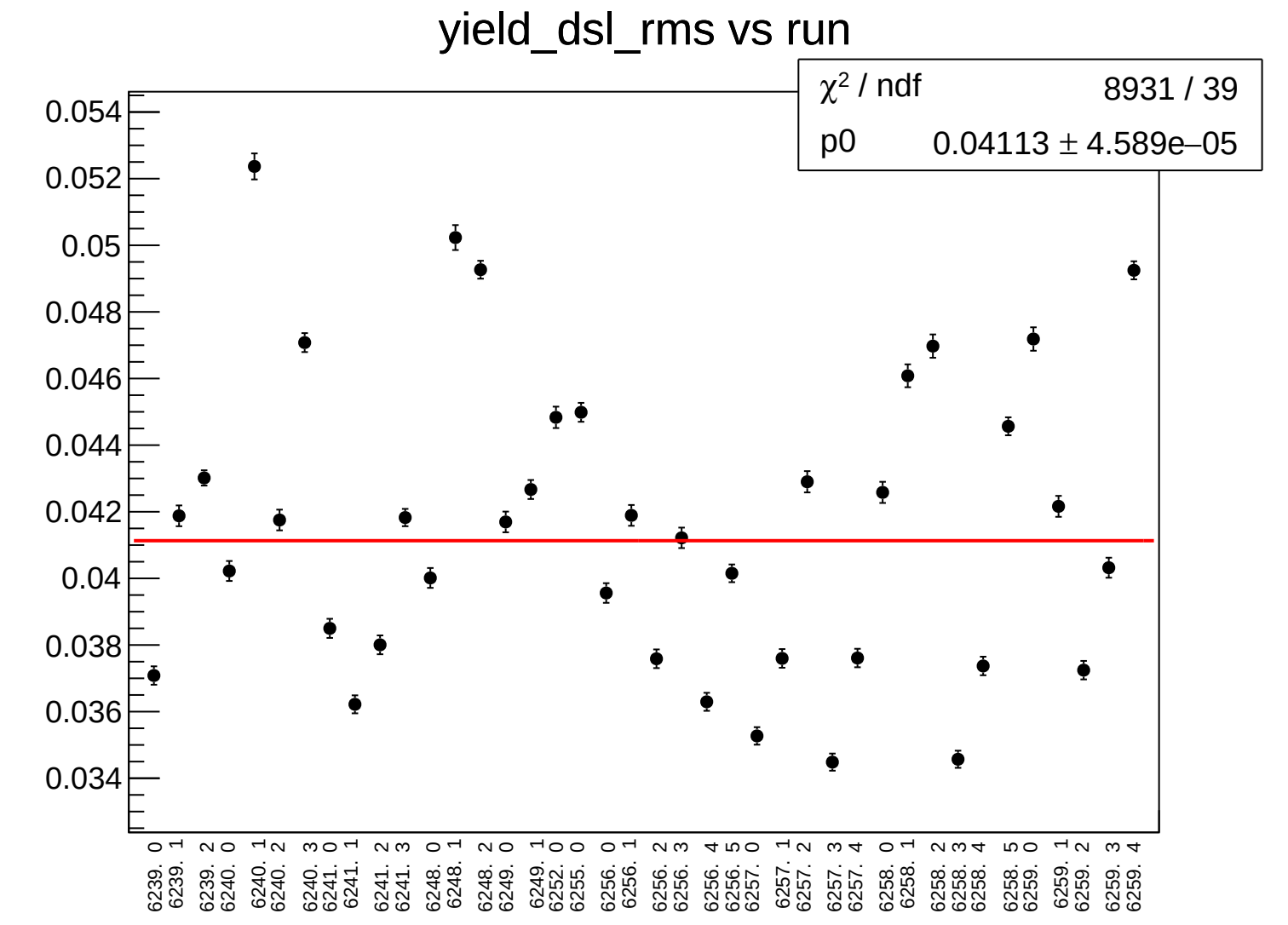

yield_usr_mean vs run
χ² / ndf 1.951e+05 / 39
p0 31.16 ± 0.0001535
31.35
31.3
31.25
31.2
31.15
31.1
31.05
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 103.9
Std Dev 84.12
250
200
150
100
50
0
−50
−100

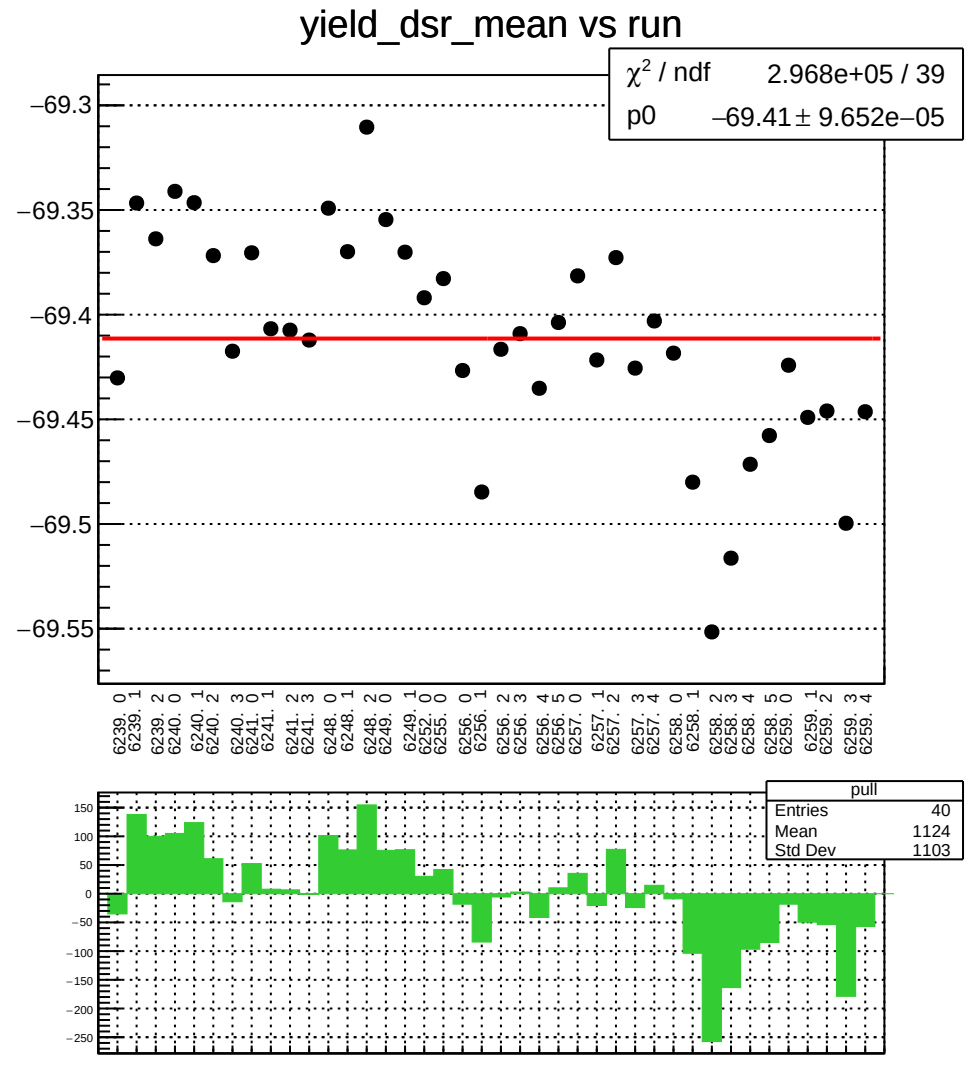

pull1D
Entries 40
Mean 0.7954
Std Dev 6.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

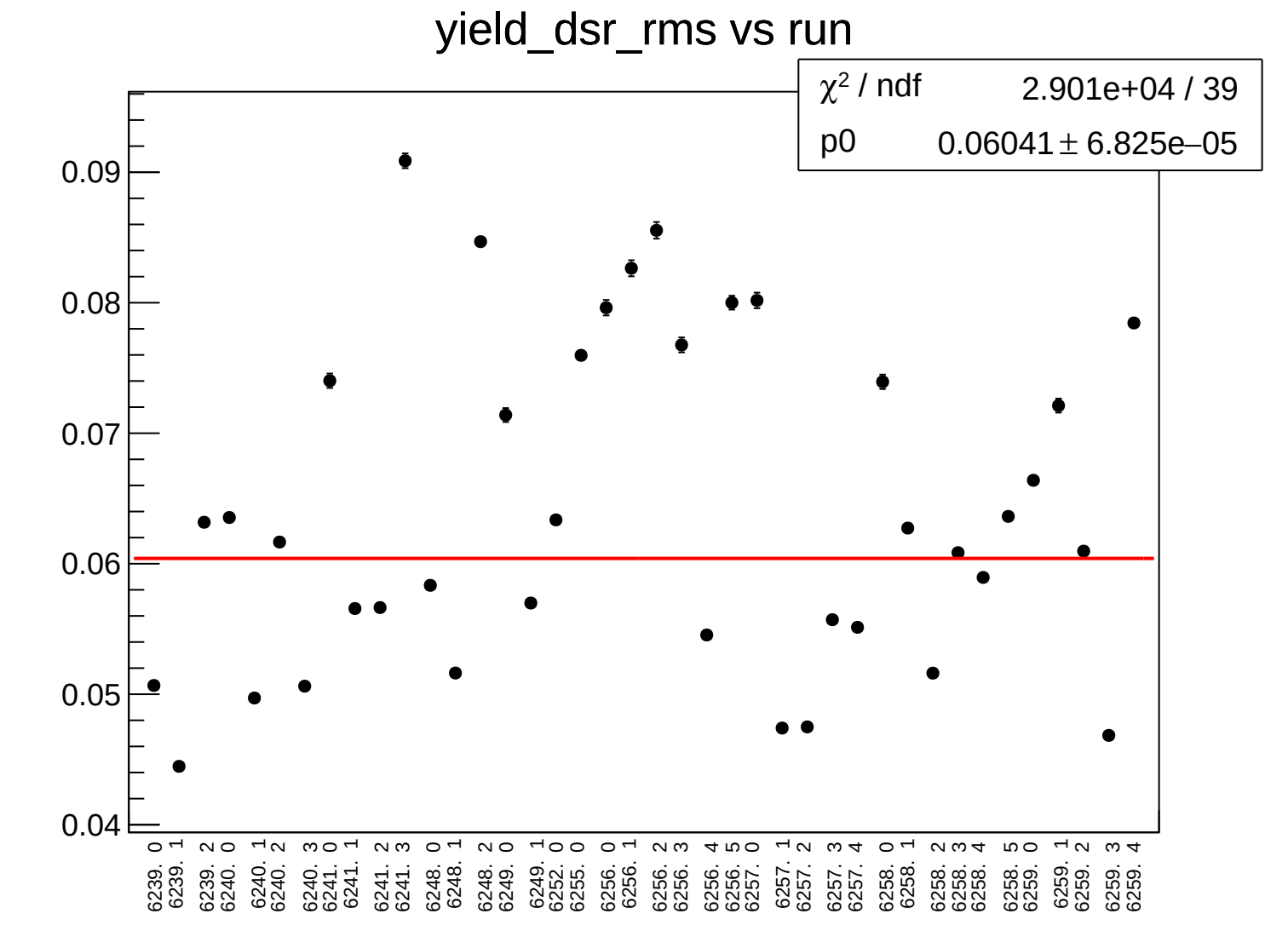

yield_usr_rms vs run
χ² / ndf 8.339e+04 / 39
p0 0.09265 ± 0.0001085
0.3
0.25
0.2
0.15
0.1
0.05
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

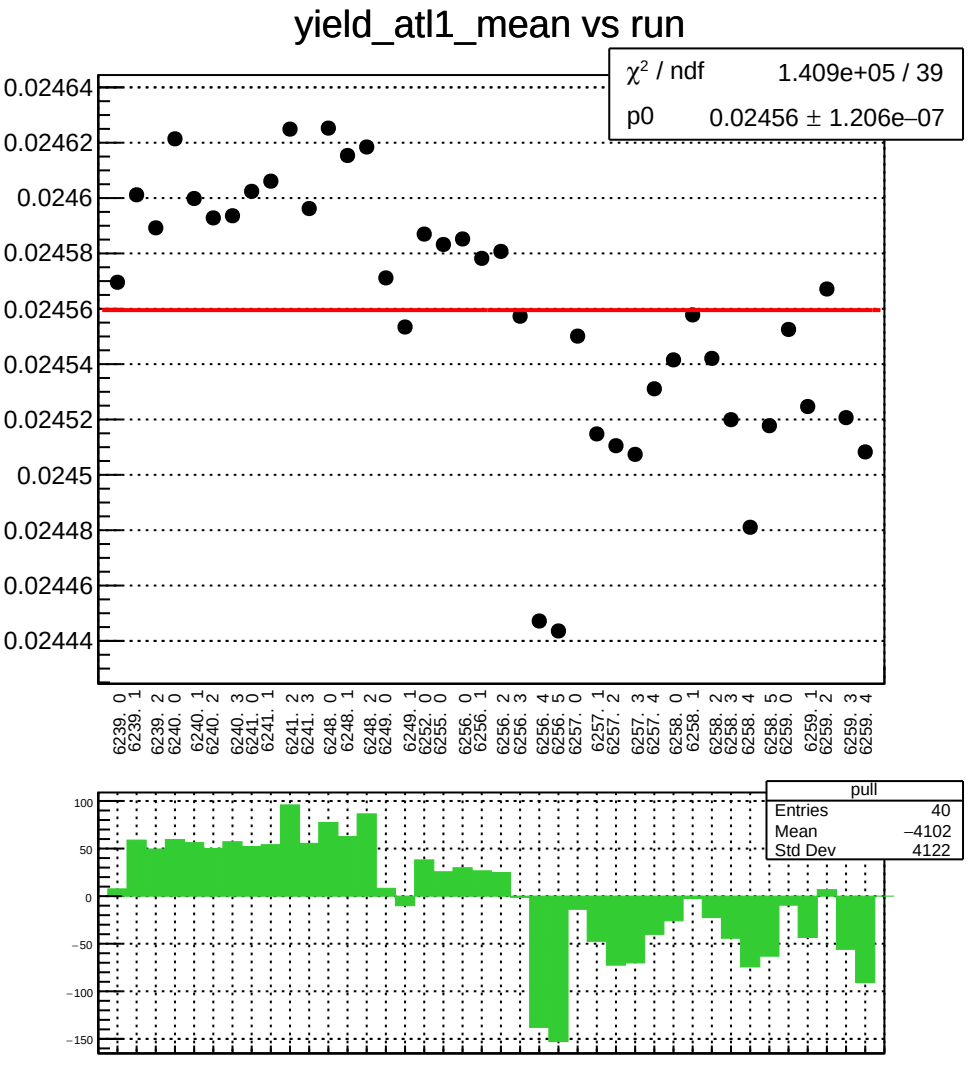

yield_dsl_mean vs run
χ² / ndf 4.189e+05 / 39
p0 82.41± 6.49e−05
82.5
82.45
82.4
82.35
82.3
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −891.9
Std Dev 912
200
150
100
50
0
−50
−100
−150
−200
−250

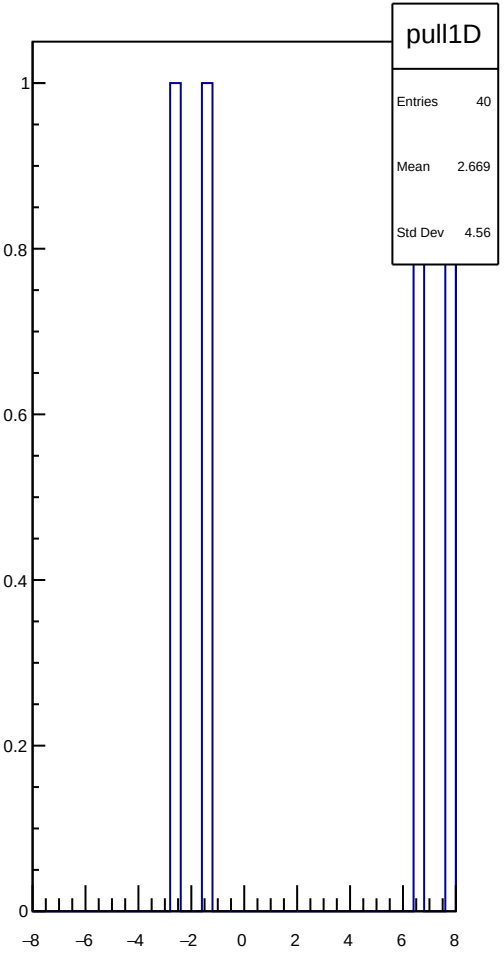

pull1D
Entries 40
Mean −0.7449
Std Dev 2.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

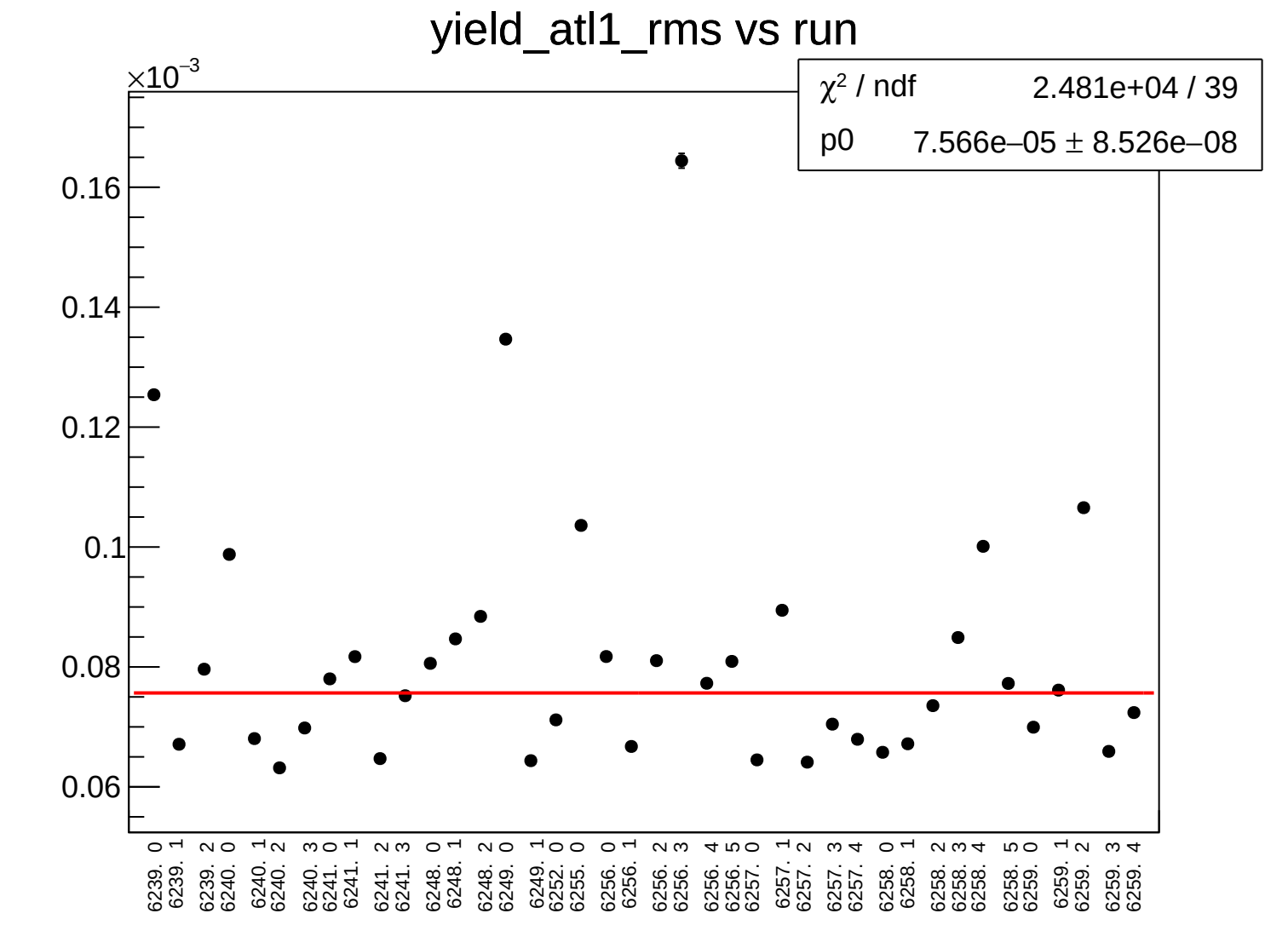

yield_dsl_rms vs run
χ² / ndf 8931 / 39
p0 0.04113 ± 4.589e−05
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

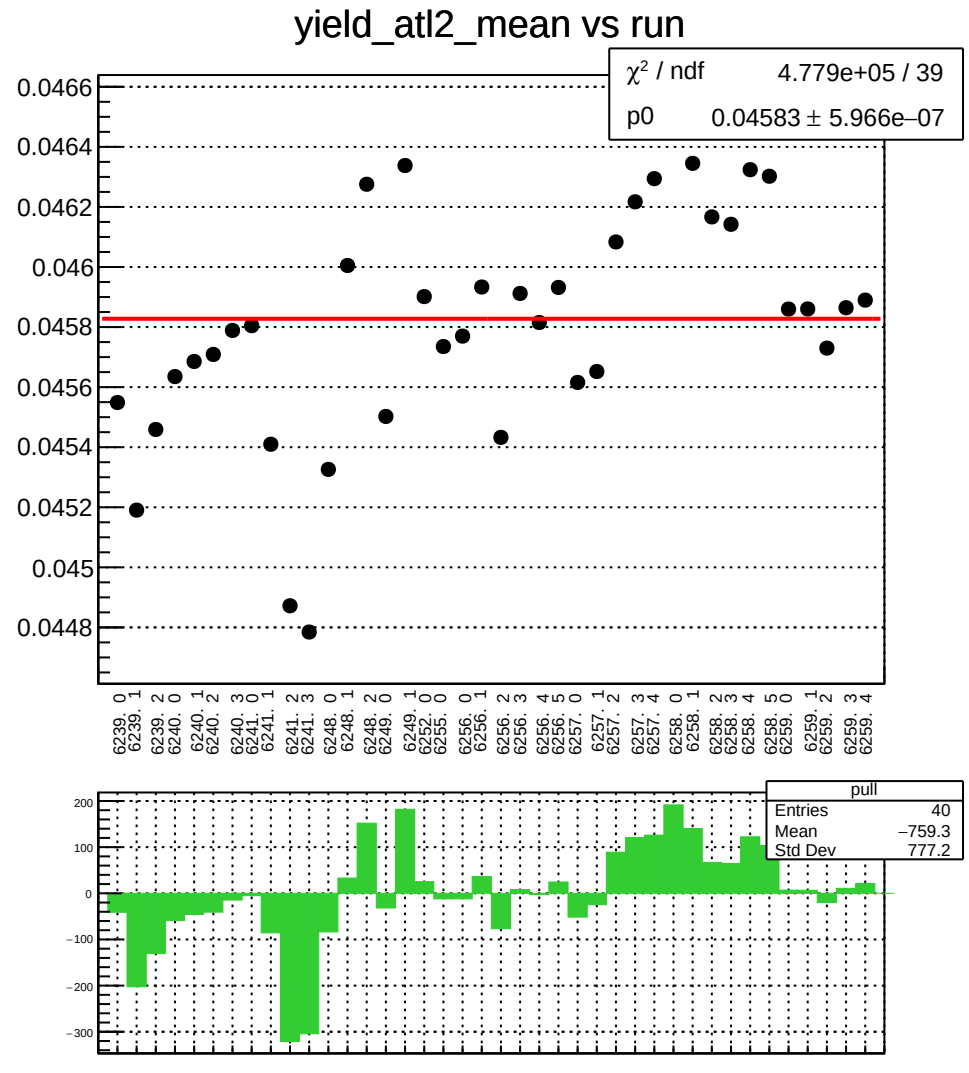

yield_dsr_mean vs run
χ² / ndf 2.968e+05 / 39
p0 −69.41 ± 9.652e−05
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1124
Std Dev 1103
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 40
Mean 2.177
Std Dev 4.99
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

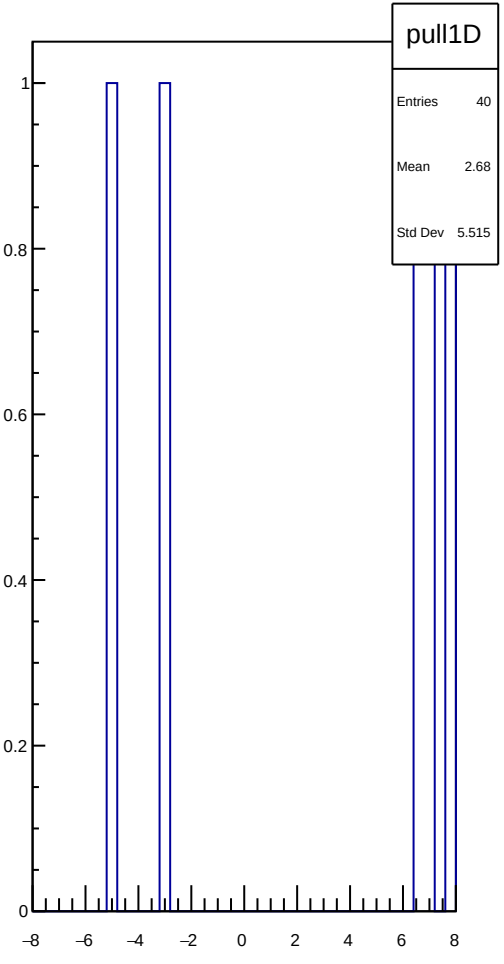

yield_dsr_rms vs run
χ² / ndf 2.901e+04 / 39
p0 0.06041 ± 6.825e−05
0.09
0.08
0.07
0.06
0.05
0.04
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

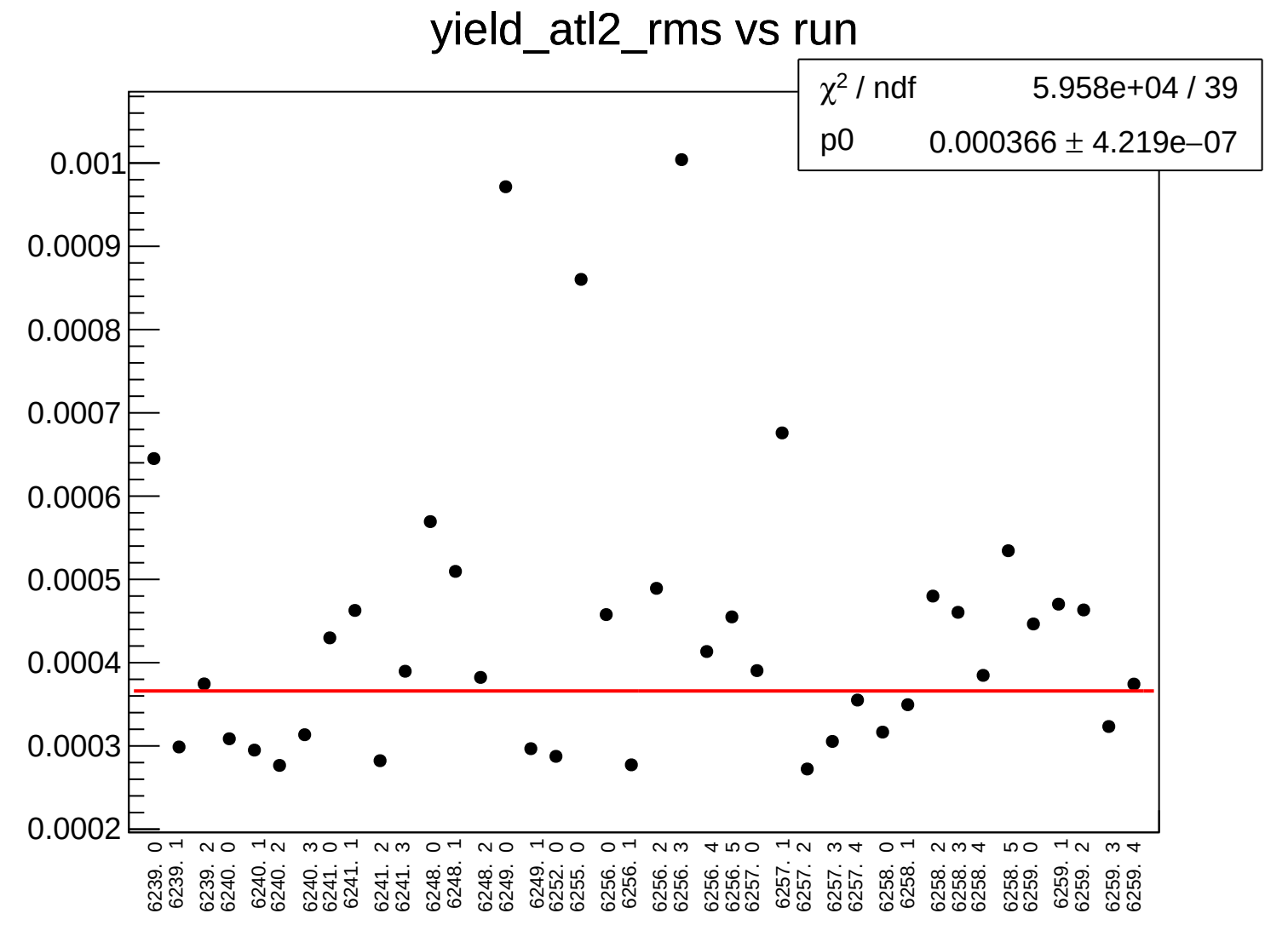

yield_atl1_mean vs run
χ² / ndf 1.409e+05 / 39
p0 0.02456 ± 1.206e−07
0.02464
0.02462
0.0246
0.02458
0.02456
0.02454
0.02452
0.0245
0.02448
0.02446
0.02444
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −4102
Std Dev 4122
100
50
0
−50
−100
−150

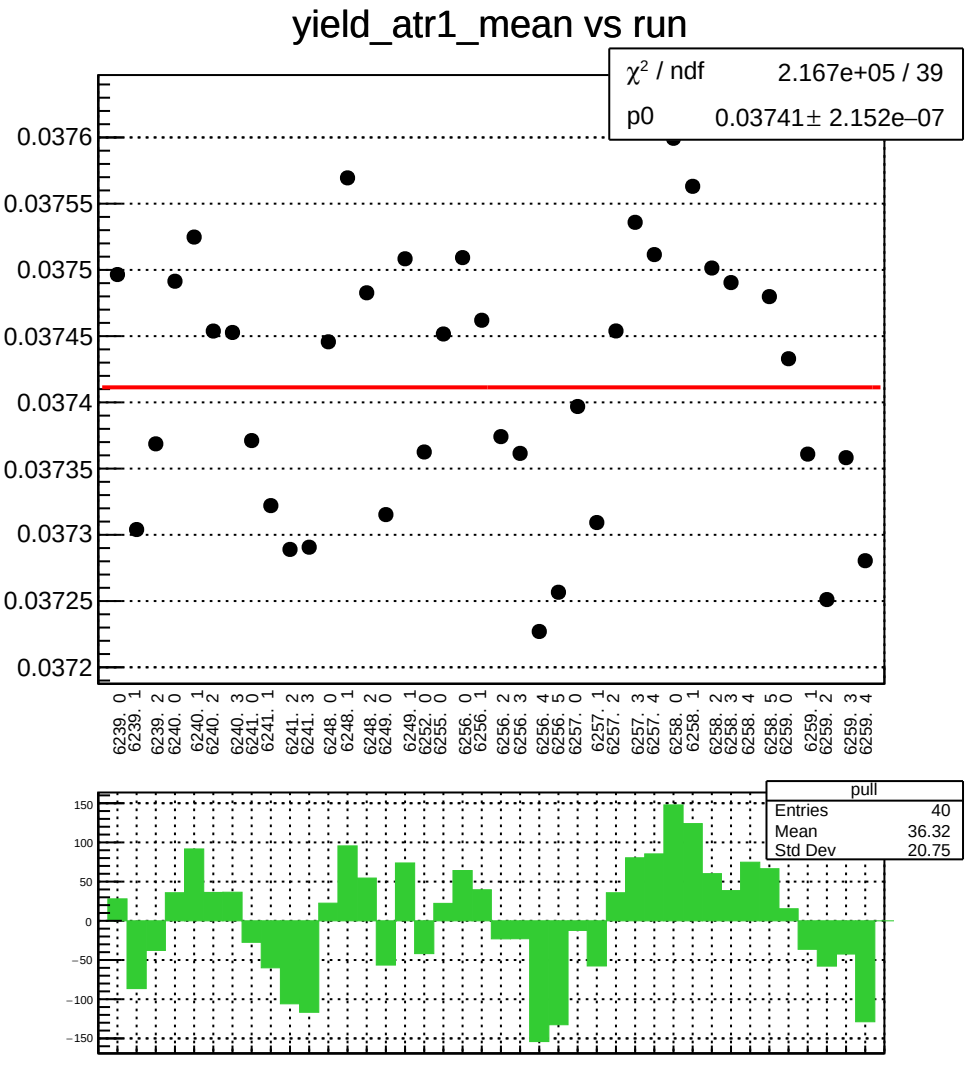

pull1D
Entries 40
Mean 2.669
Std Dev 4.56
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

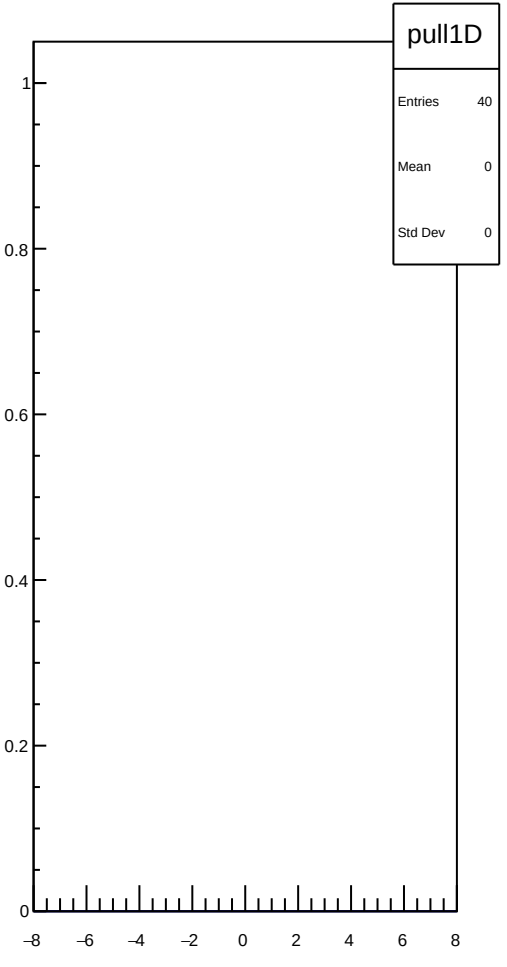

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.481e+04 / 39
p0 7.566e−05 ± 8.526e−08
0.16
0.14
0.12
0.1
0.08
0.06
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

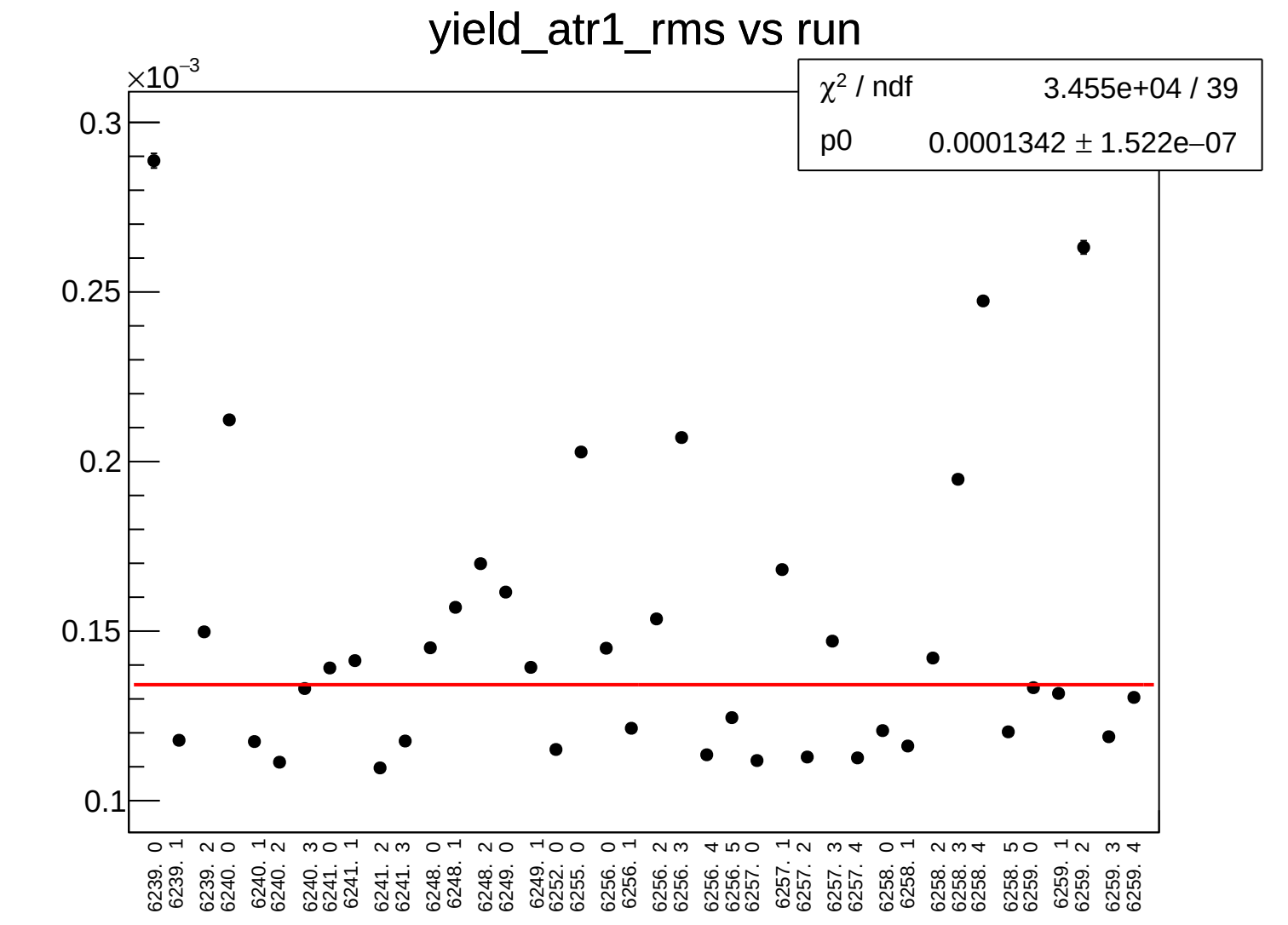

yield_atl2_mean vs run
χ² / ndf 4.779e+05 / 39
p0 0.04583 ± 5.966e−07
0.0466
0.0464
0.0462
0.046
0.0458
0.0456
0.0454
0.0452
0.045
0.0448
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −759.3
Std Dev 777.2
200
100
0
−100
−200
−300

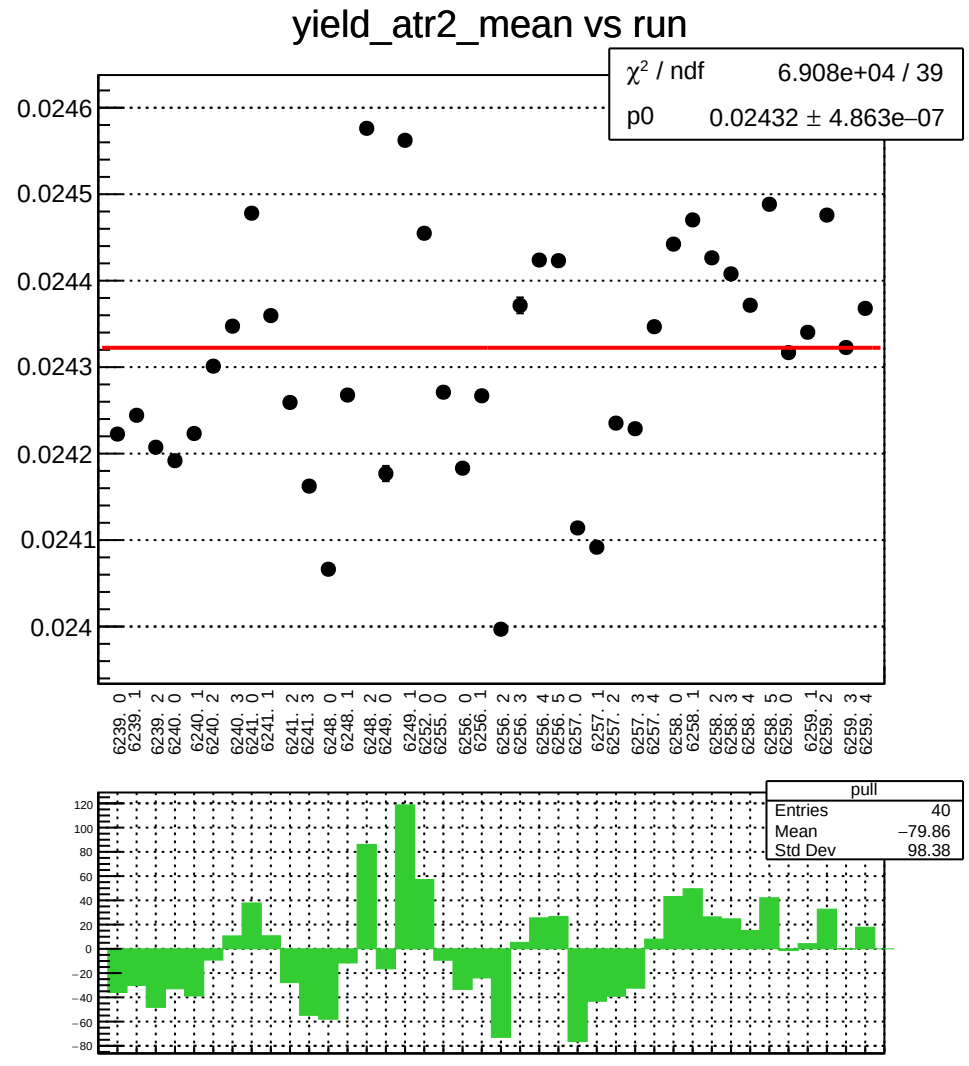

pull1D
Entries 40
Mean 2.68
Std Dev 5.515
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

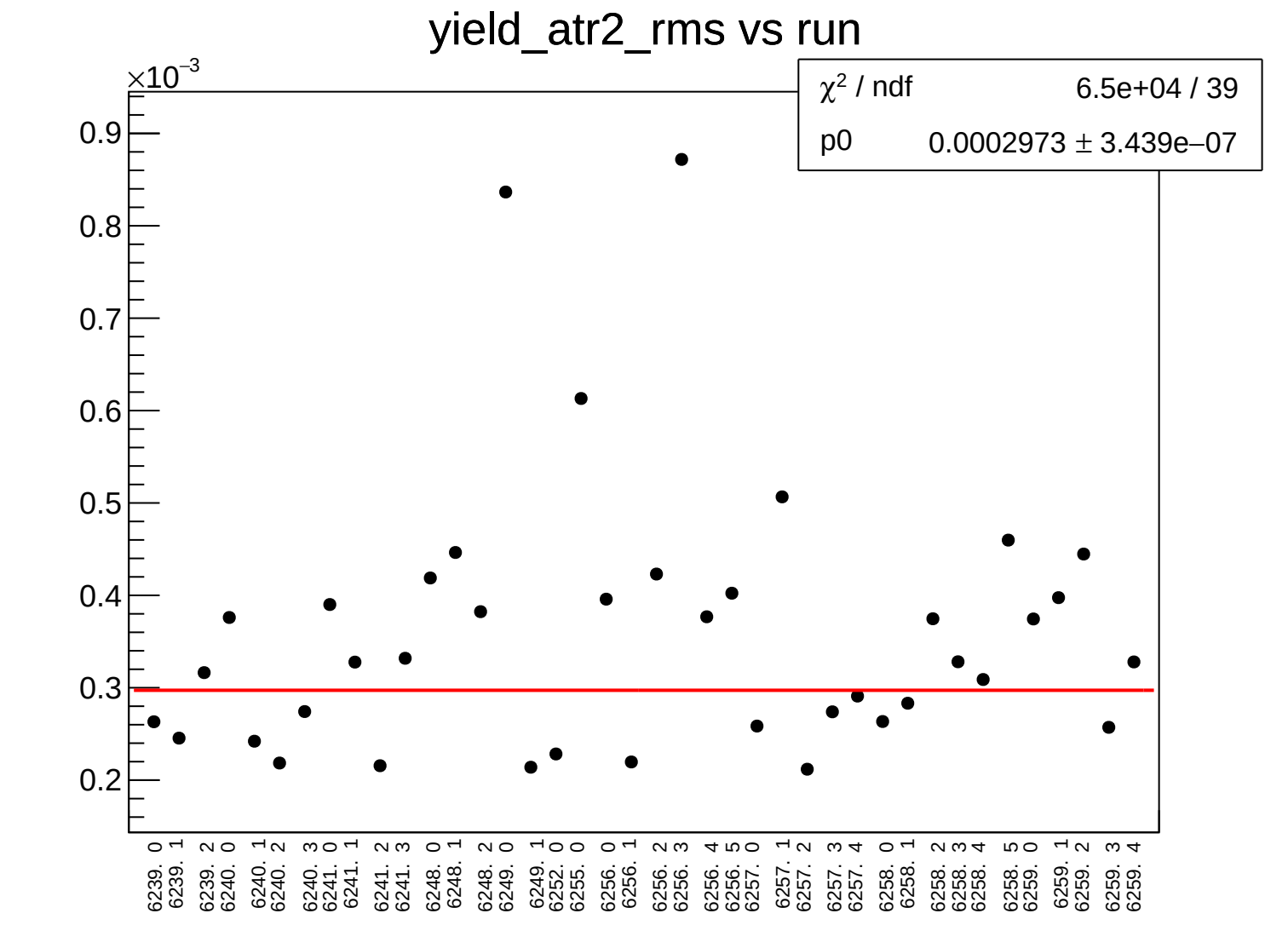

yield_atl2_rms vs run
χ² / ndf 5.958e+04 / 39
p0 0.000366 ± 4.219e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

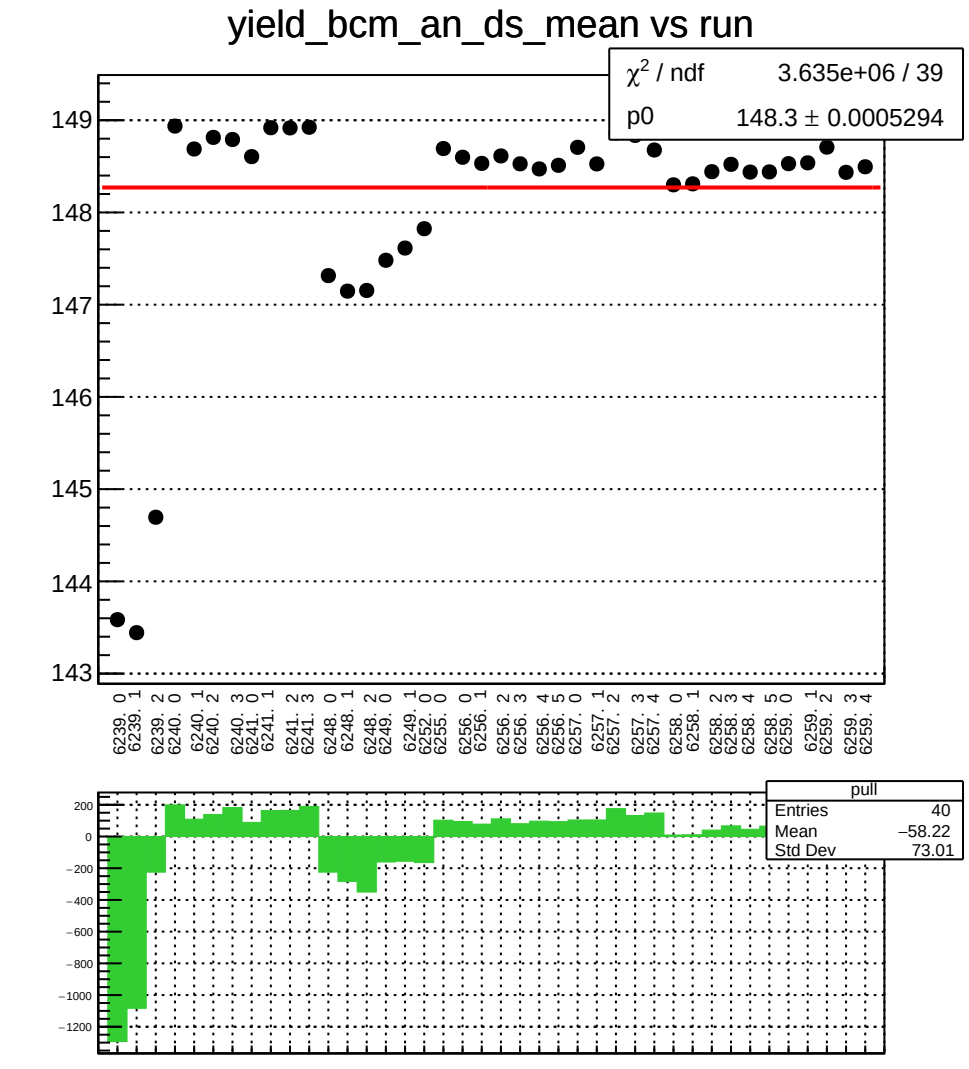

yield_atr1_mean vs run
χ² / ndf 2.167e+05 / 39
p0 0.03741± 2.152e−07
0.0376
0.03755
0.0375
0.03745
0.0374
0.03735
0.0373
0.03725
0.0372
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 36.32
Std Dev 20.75
150
100
50
0
−50
−100
−150

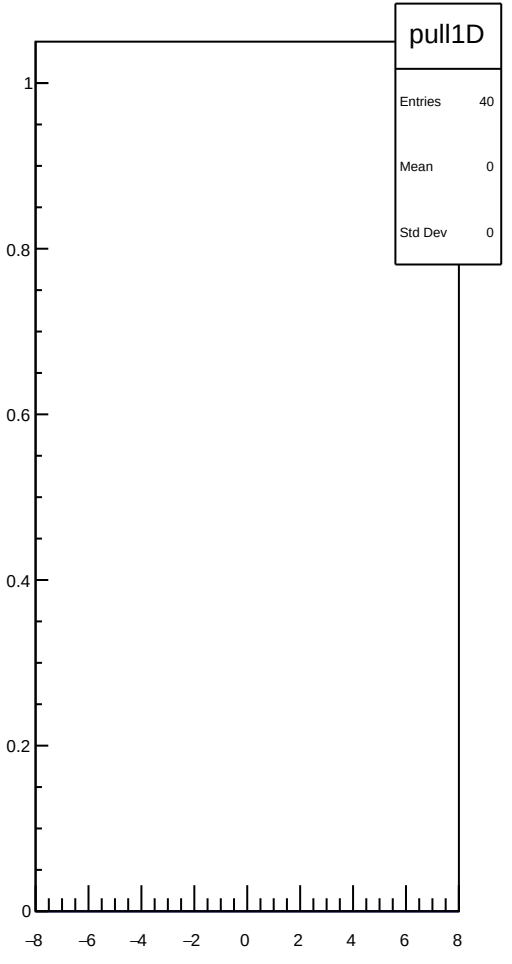

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

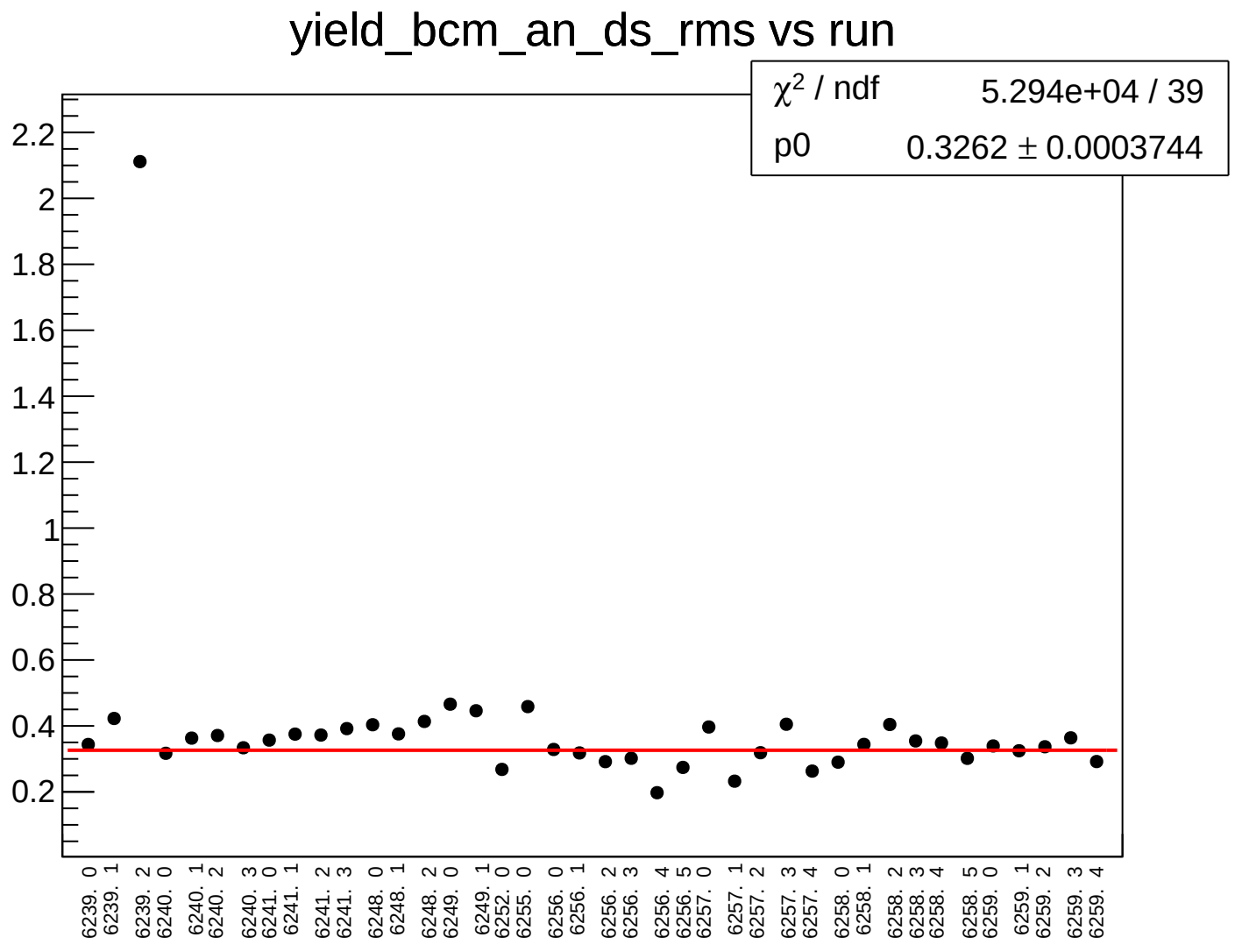

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.455e+04 / 39
p0 0.0001342 ± 1.522e−07
0.3
0.25
0.2
0.15
0.1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

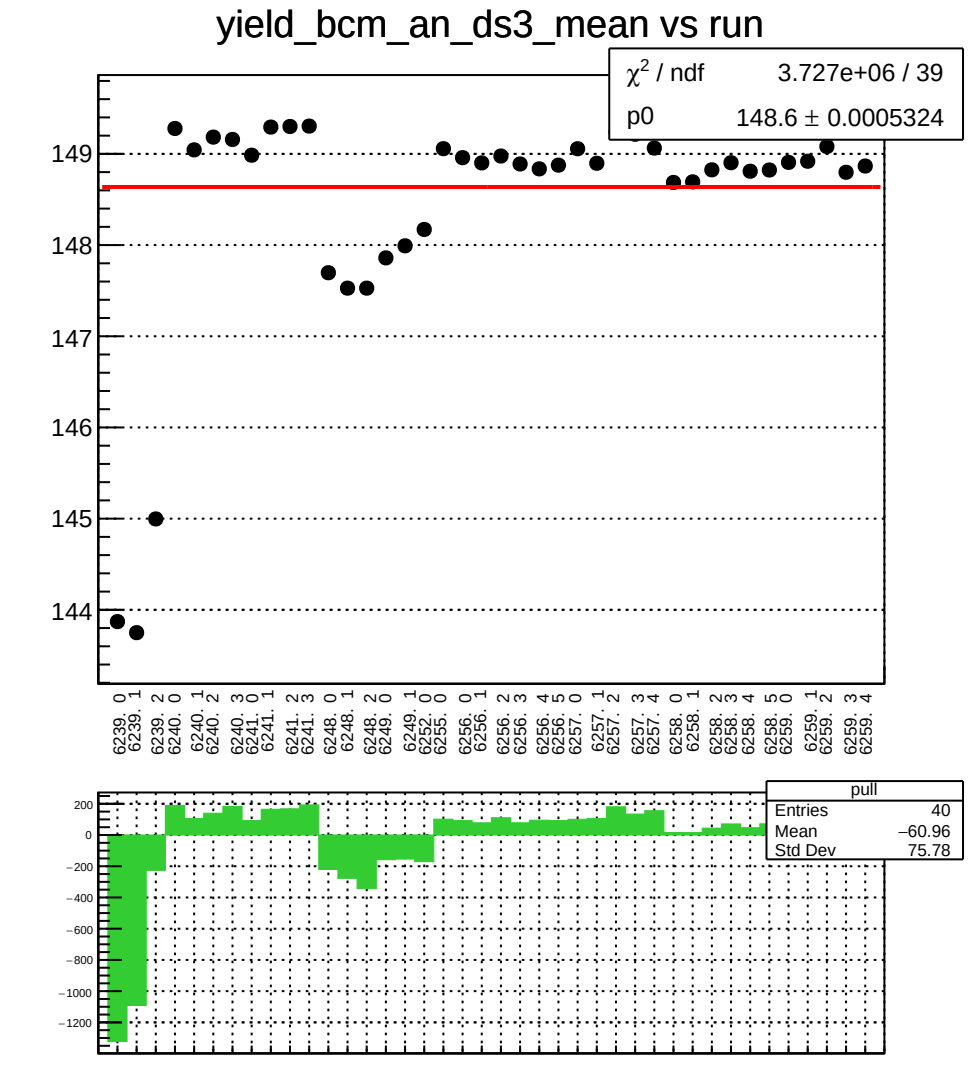

yield_atr2_mean vs run
χ² / ndf 6.908e+04 / 39
p0 0.02432 ± 4.863e–07
0.0246
0.0245
0.0244
0.0243
0.0242
0.0241
0.024
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean –79.86
Std Dev 98.38
120
100
80
60
40
20
0
–20
–40
–60
–80
pull1D
Entries 40
Mean 2.077
Std Dev 2.808
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

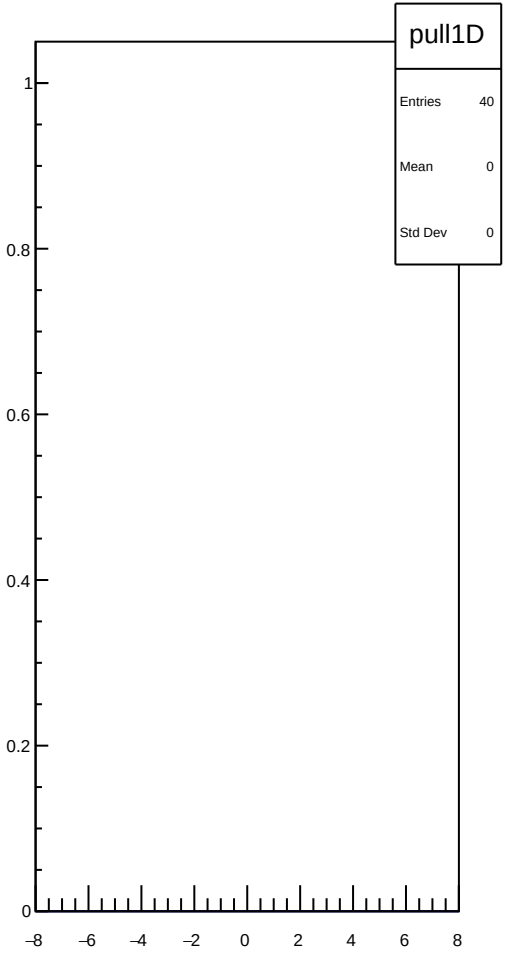

yield_atr2_rms vs run
×10⁻³
χ² / ndf 6.5e+04 / 39
p0 0.0002973 ± 3.439e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

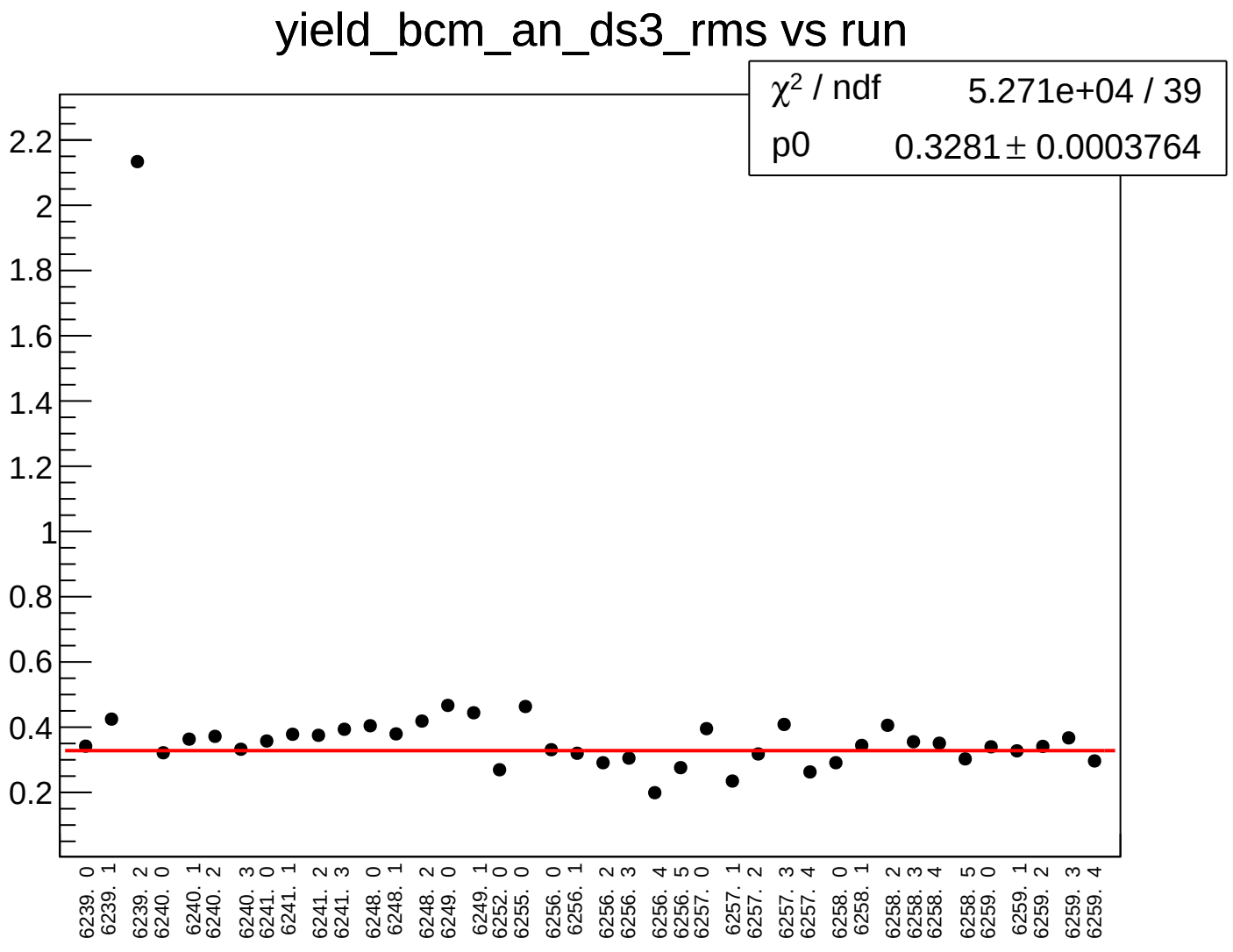

yield_bcm_an_ds_mean vs run
χ² / ndf 3.635e+06 / 39
p0 148.3 ± 0.0005294
149
148
147
146
145
144
143
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −58.22
Std Dev 73.01
200
0
−200
−400
−600
−800
−1000
−1200

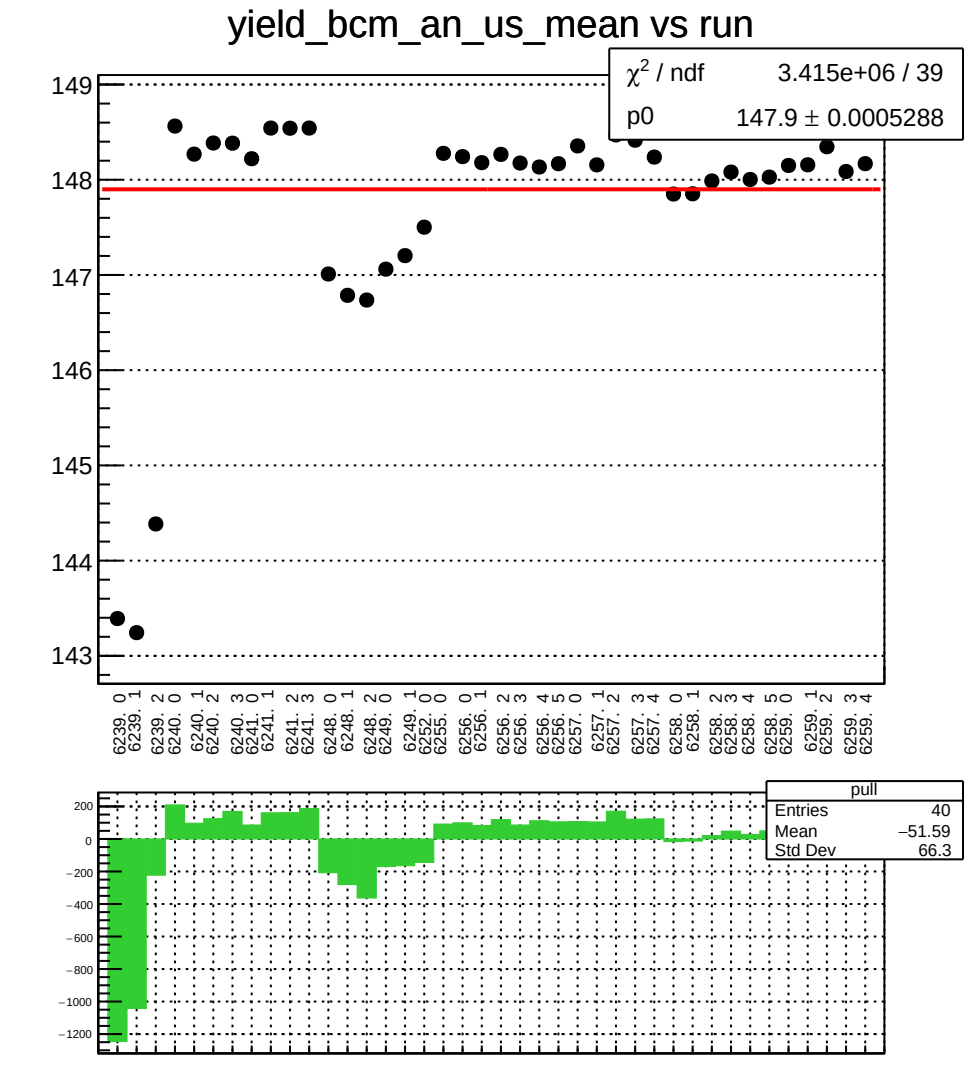

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

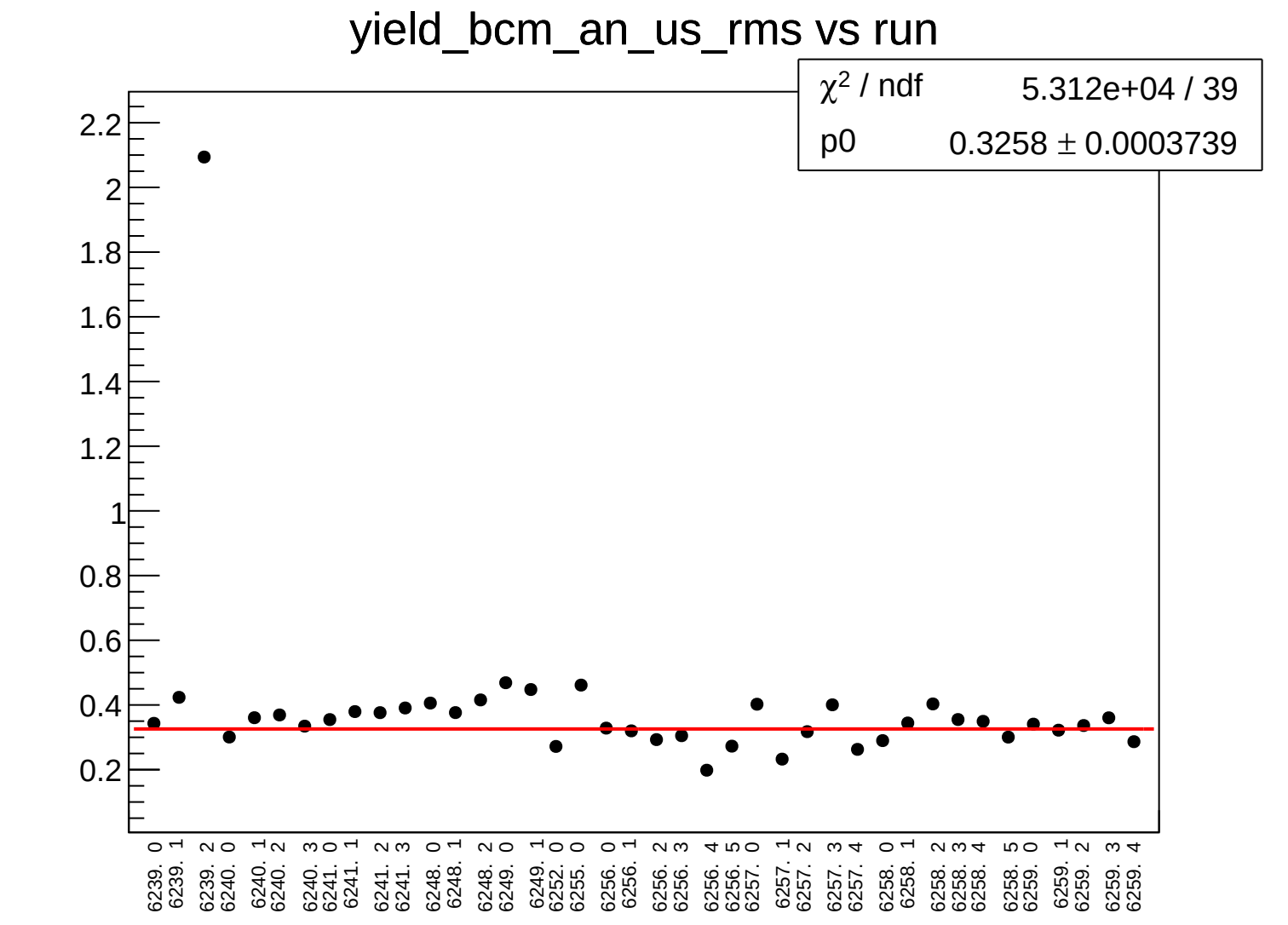

yield_bcm_an_ds_rms vs run
χ² / ndf 5.294e+04 / 39
p0 0.3262 ± 0.0003744
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

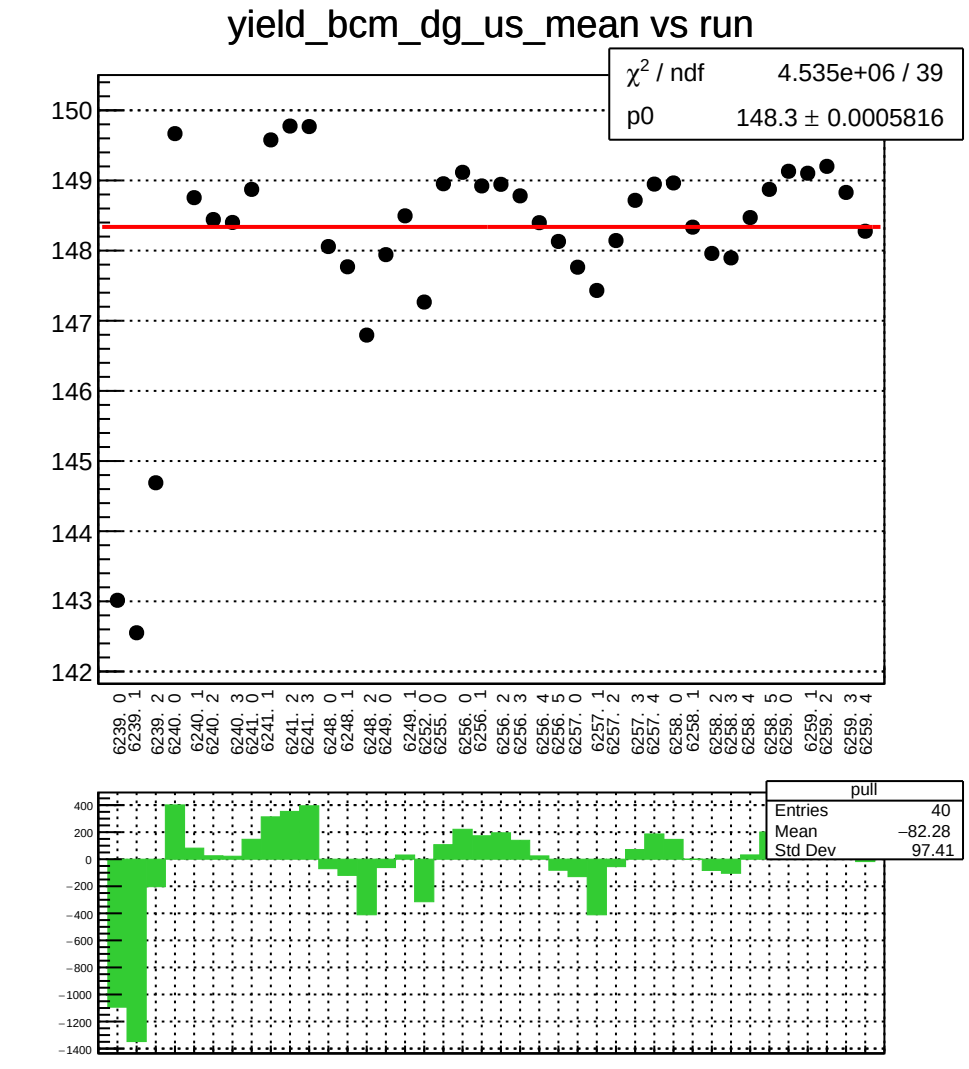

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.727e+06 / 39
p0 148.6 ± 0.0005324
149
148
147
146
145
144
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −60.96
Std Dev 75.78
200
0
−200
−400
−600
−800
−1000
−1200

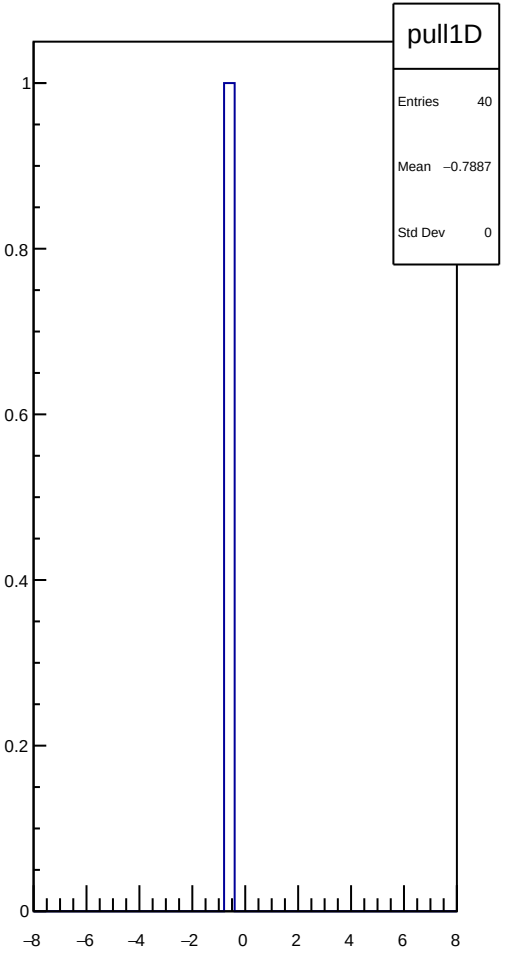

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

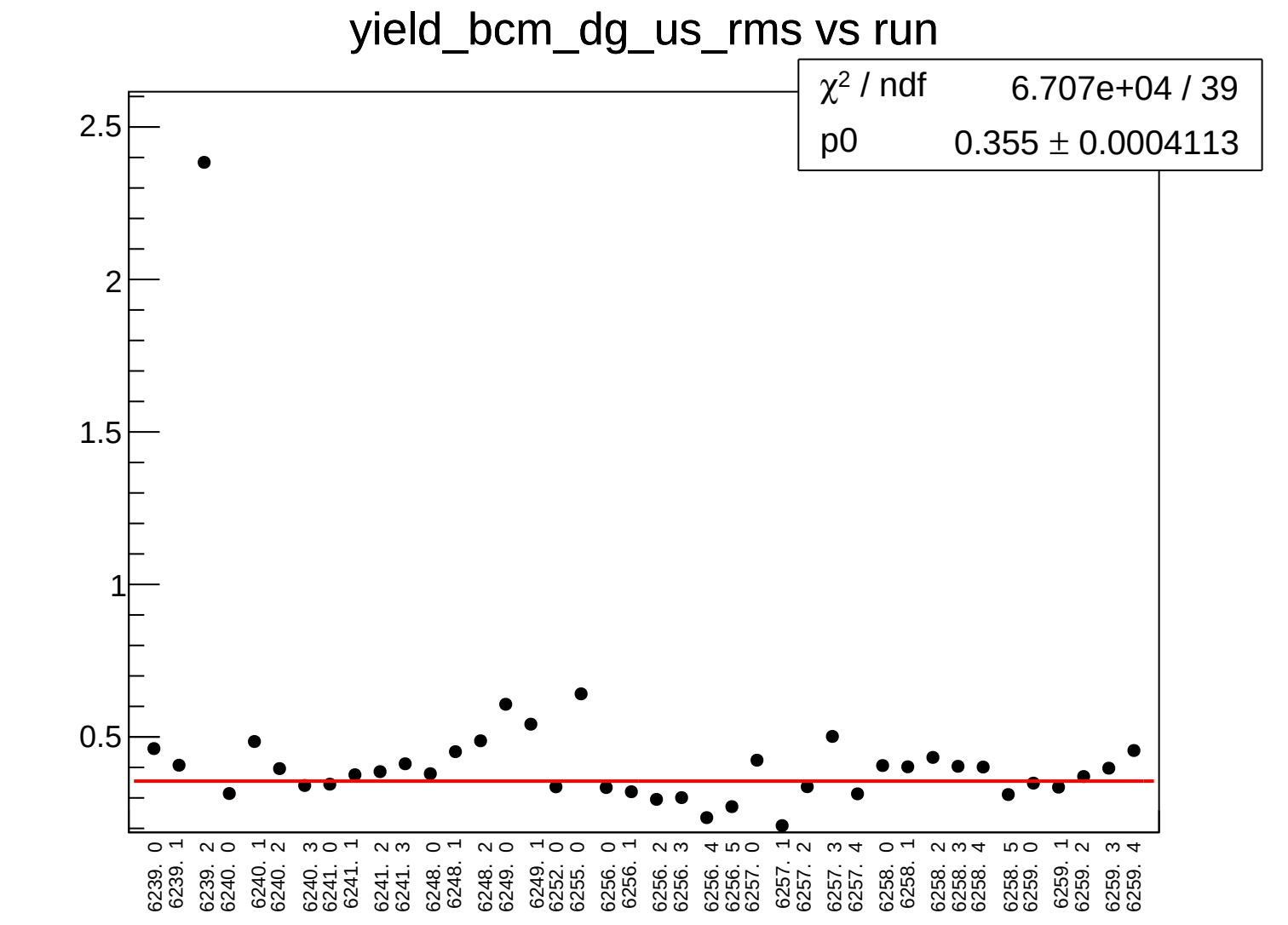

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.271e+04 / 39
p0 0.3281 ± 0.0003764
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

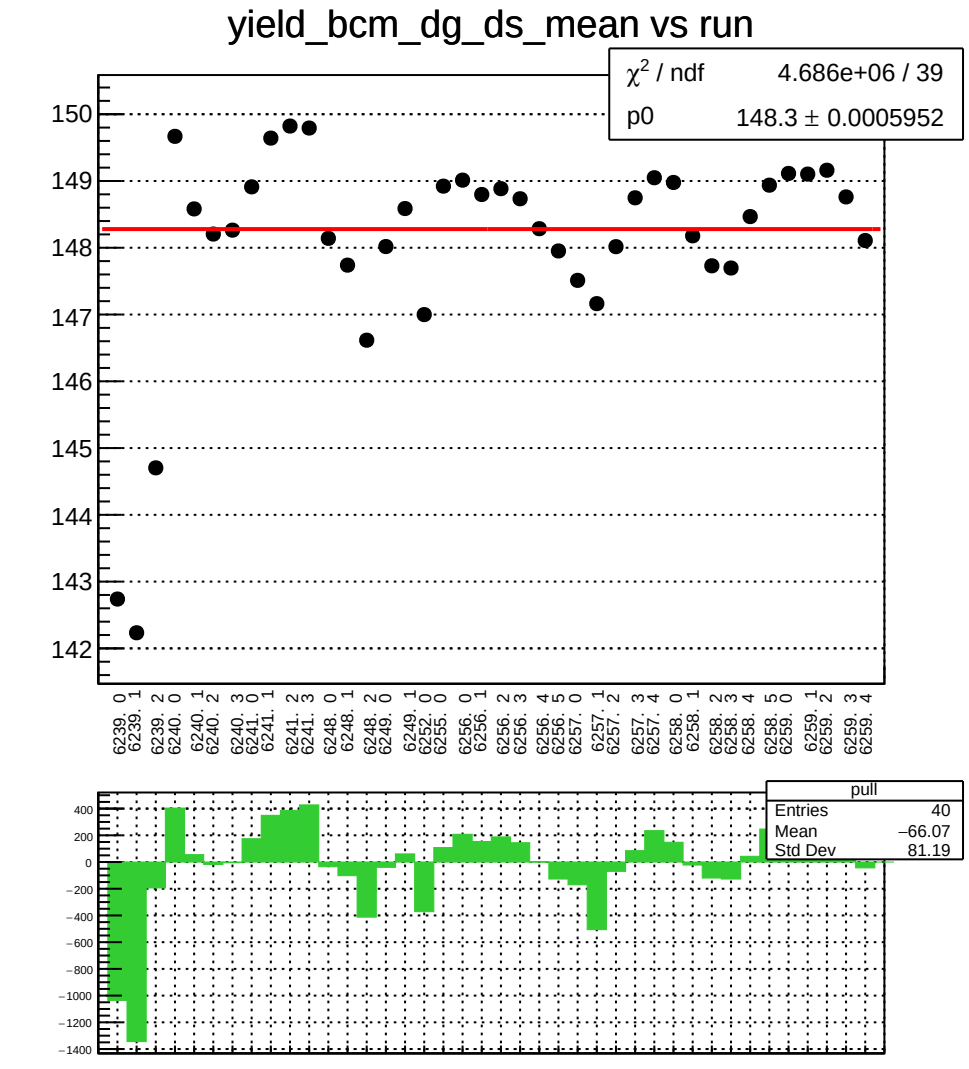

yield_bcm_an_us_mean vs run
χ² / ndf 3.415e+06 / 39
p0 147.9 ± 0.0005288
149
148
147
146
145
144
143
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −51.59
Std Dev 66.3
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

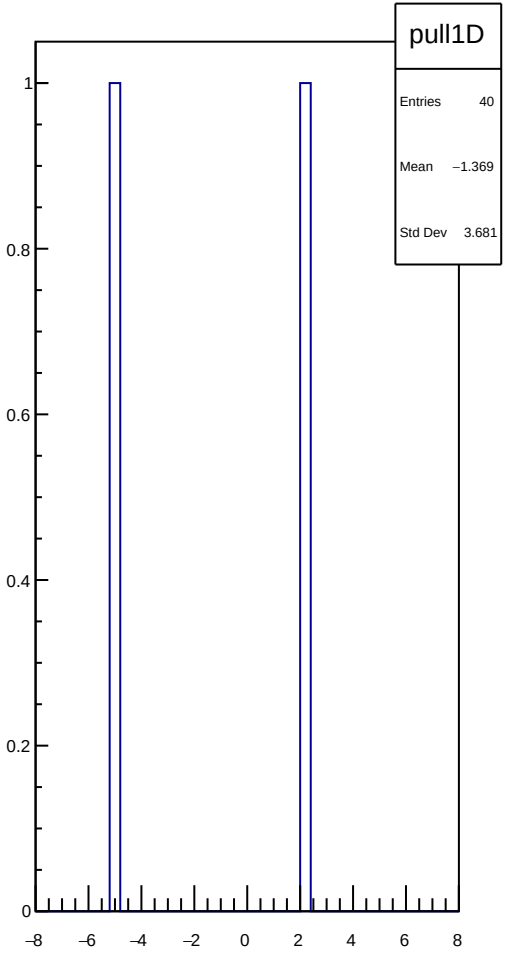

yield_bcm_an_us_rms vs run
χ² / ndf 5.312e+04 / 39
p0 0.3258 ± 0.0003739
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

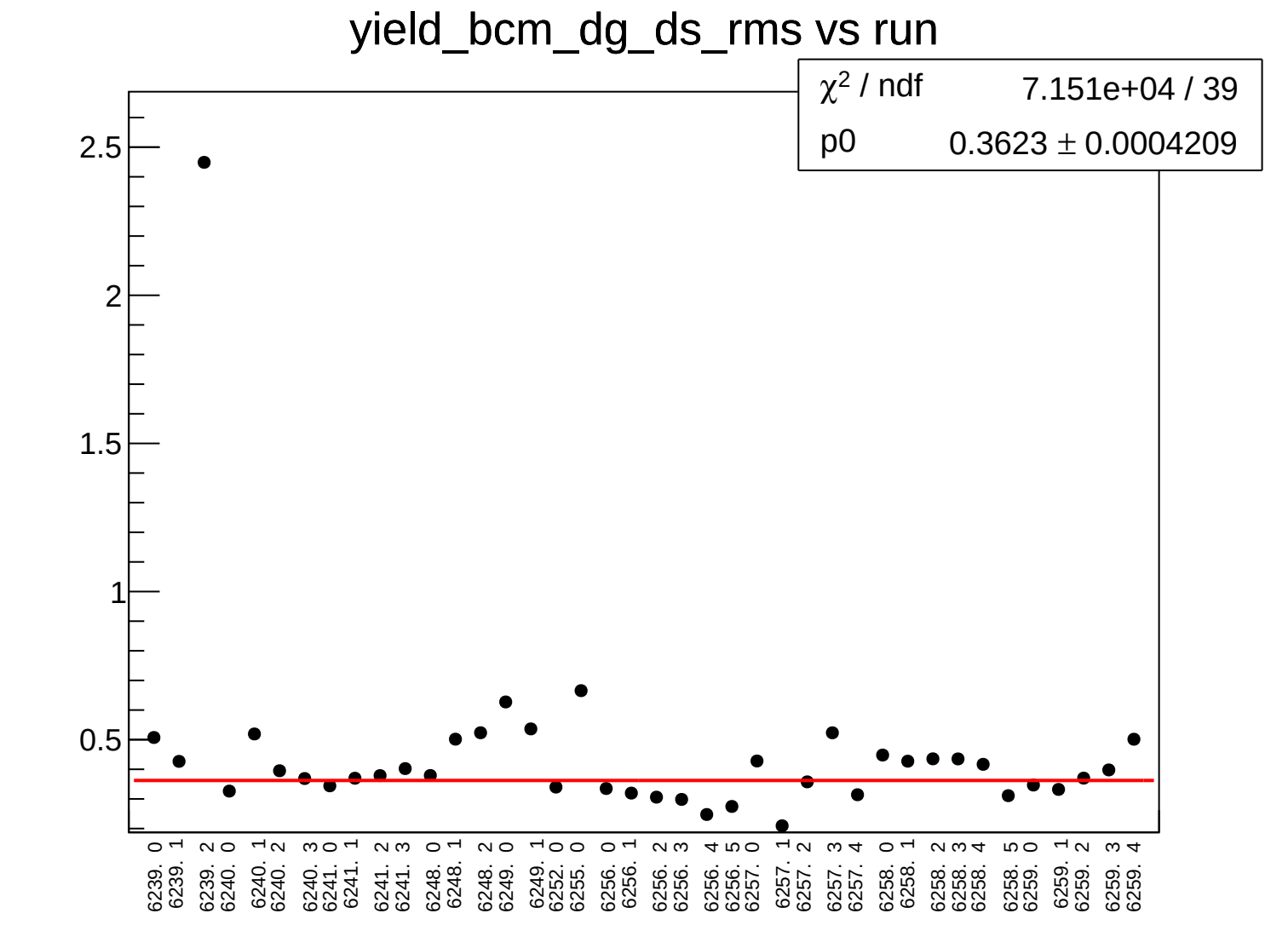

yield_bcm_dg_us_mean vs run
χ² / ndf 4.535e+06 / 39
p0 148.3 ± 0.0005816
150
149
148
147
146
145
144
143
142
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −82.28
Std Dev 97.41
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

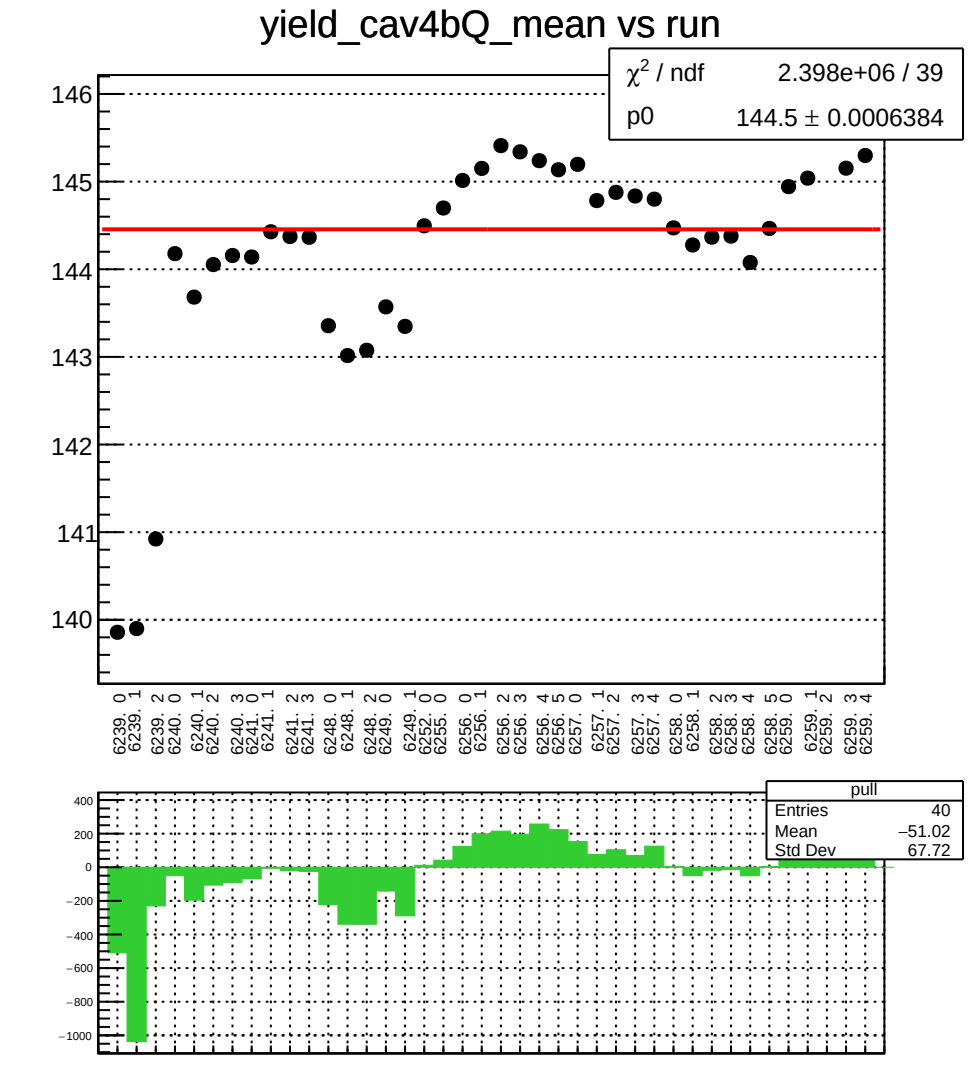

pull1D
Entries 40
Mean −0.7887
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

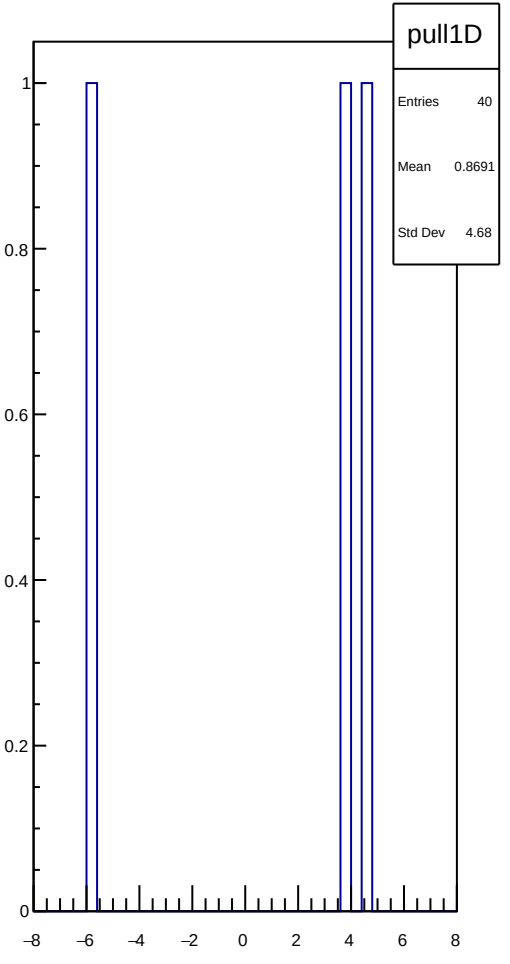

yield_bcm_dg_us_rms vs run
χ² / ndf 6.707e+04 / 39
p0 0.355 ± 0.0004113
2.5
2
1.5
1
0.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

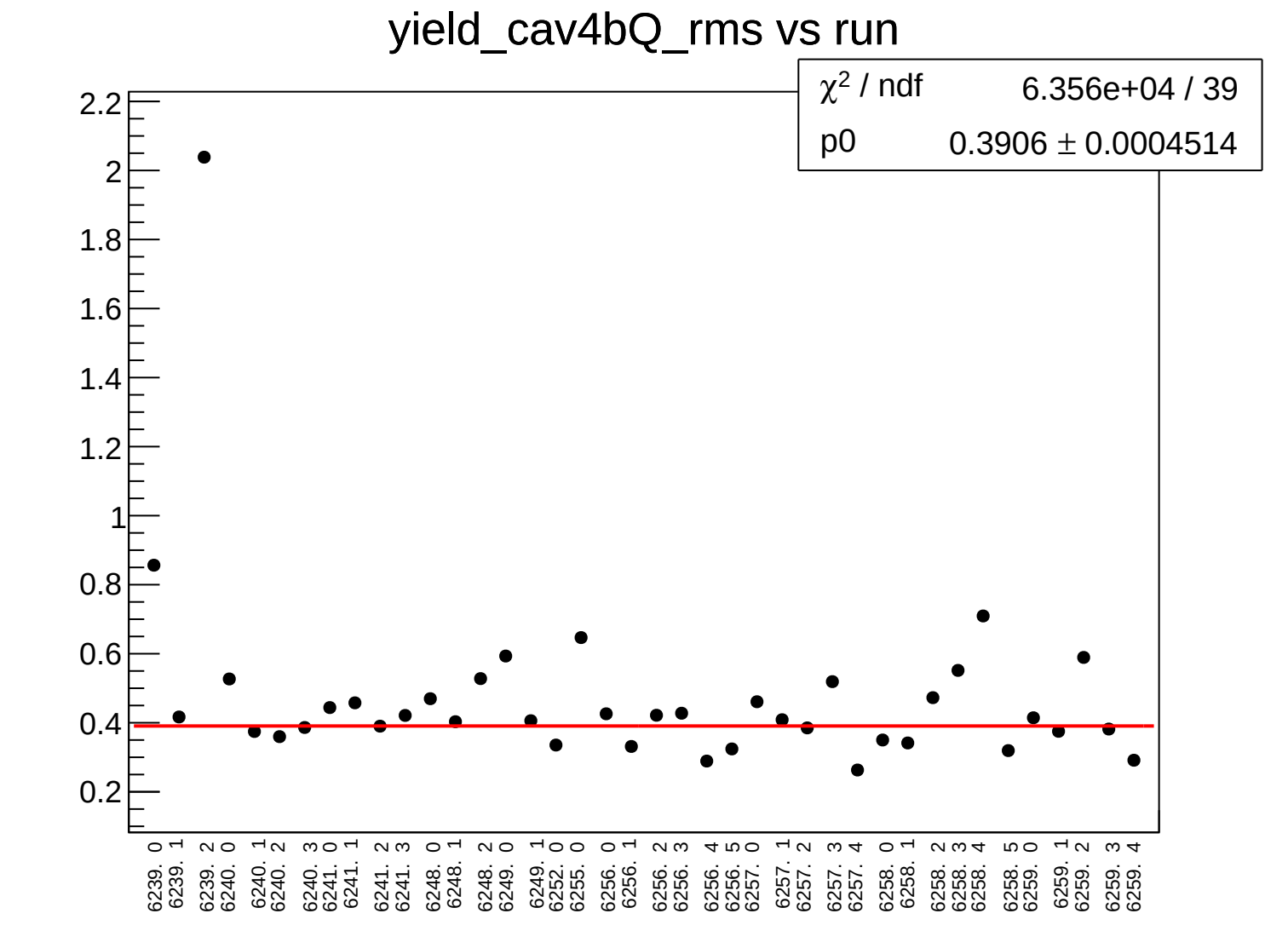

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.686e+06 / 39
p0 148.3 ± 0.0005952
150
149
148
147
146
145
144
143
142
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −66.07
Std Dev 81.19
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

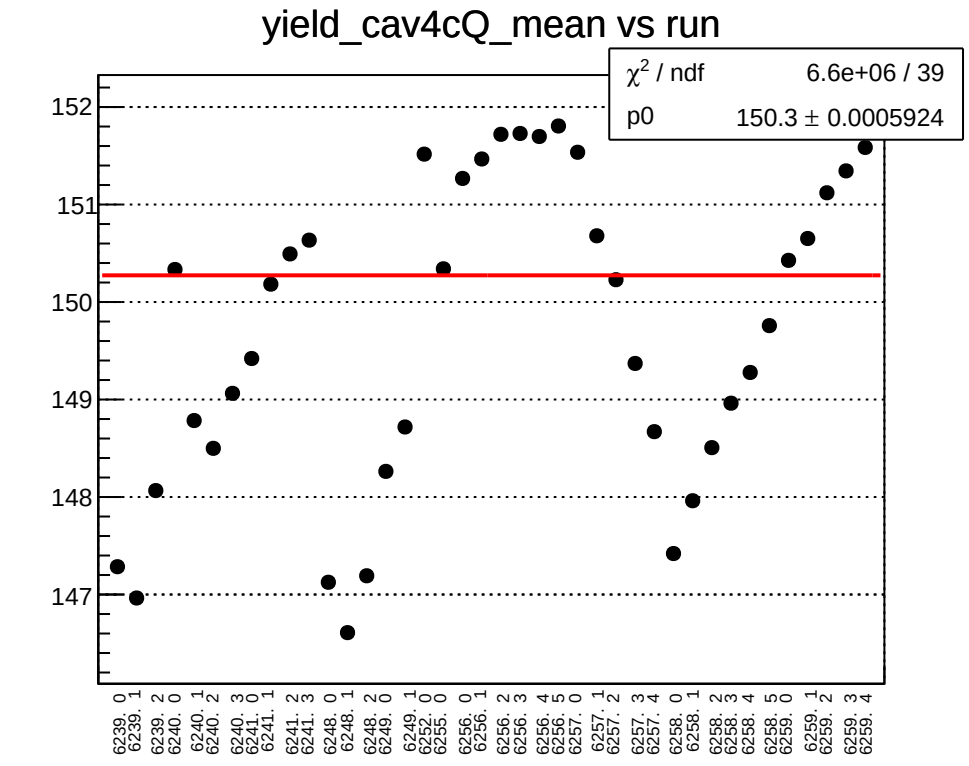

pull1D
Entries 40
Mean −1.369
Std Dev 3.681
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

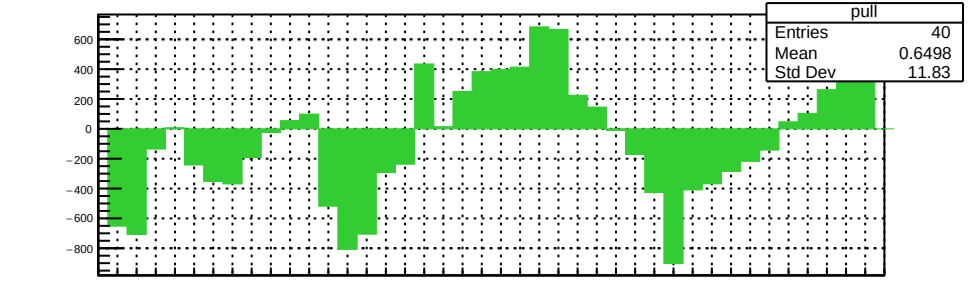

yield_bcm_dg_ds_rms vs run
χ² / ndf 7.151e+04 / 39
p0 0.3623 ± 0.0004209
2.5
2
1.5
1
0.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

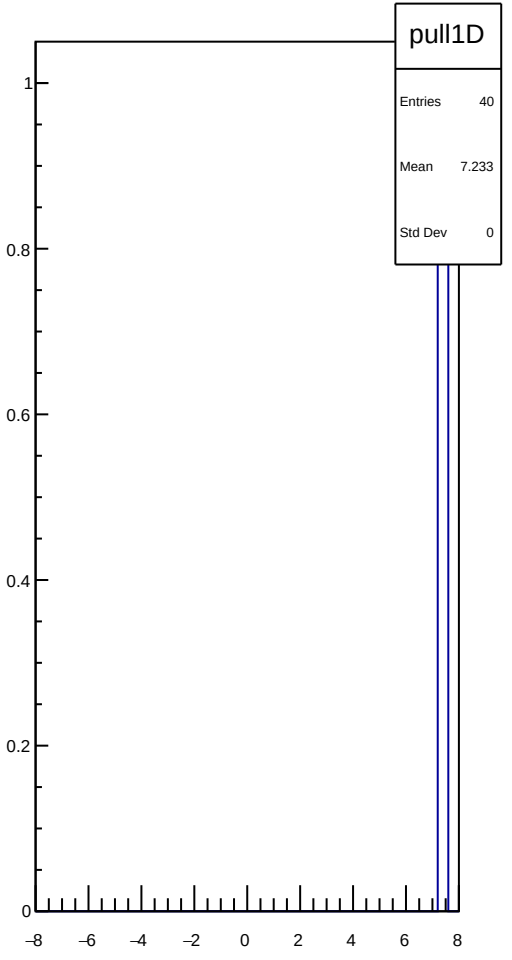

yield_cav4bQ_mean vs run
χ² / ndf 2.398e+06 / 39
p0 144.5 ± 0.0006384
146
145
144
143
142
141
140
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −51.02
Std Dev 67.72
400
200
0
−200
−400
−600
−800
−1000

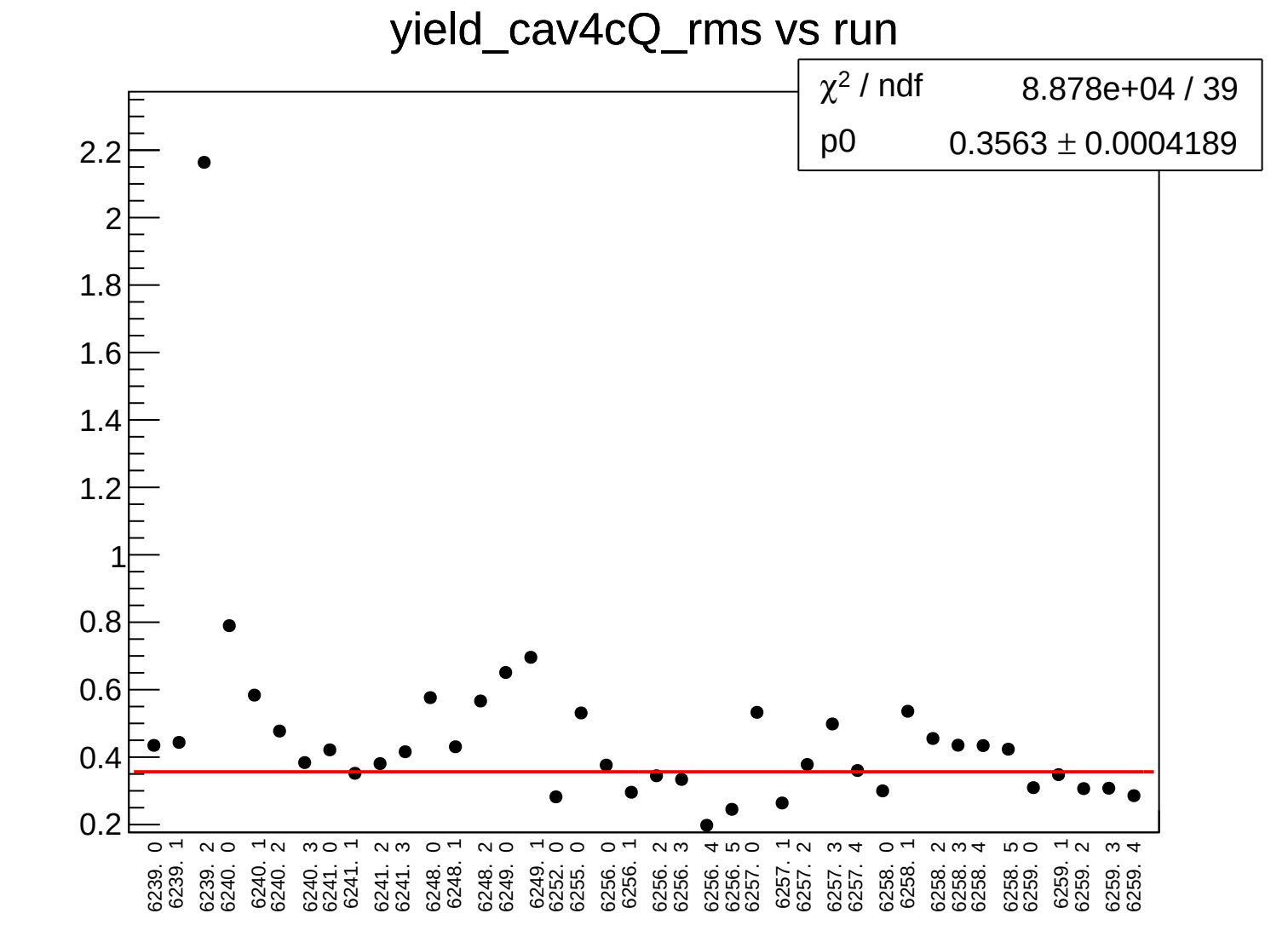

pull1D
Entries 40
Mean 0.8691
Std Dev 4.68
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

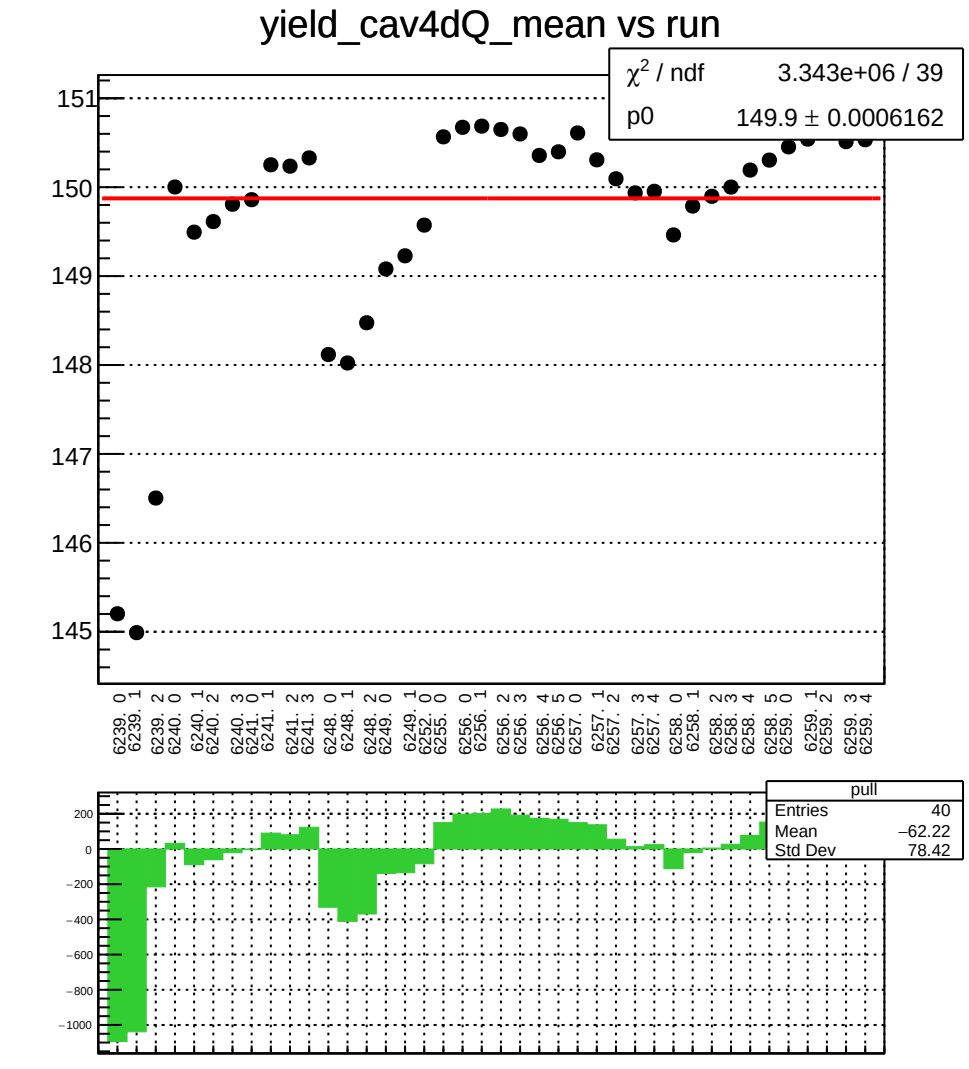

yield_cav4bQ_rms vs run
χ² / ndf 6.356e+04 / 39
p0 0.3906 ± 0.0004514
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

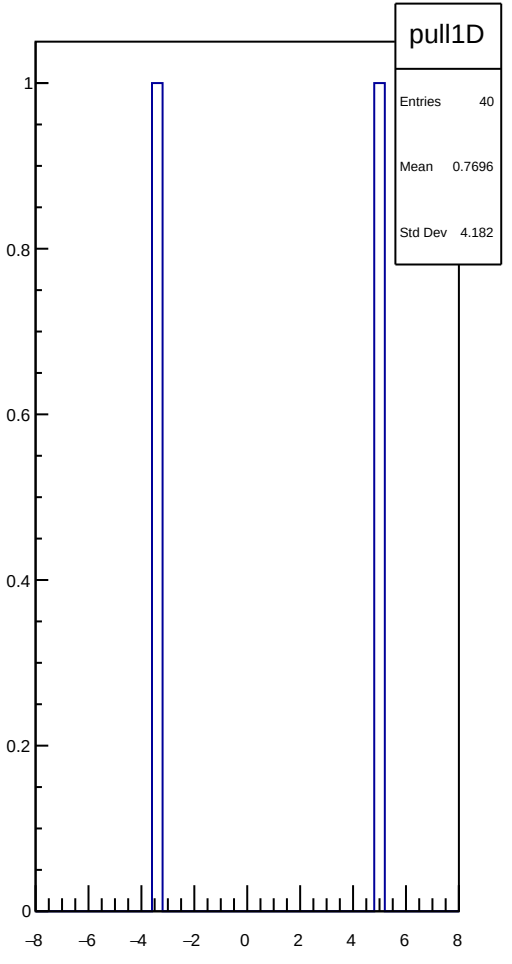

yield_cav4cQ_mean vs run
χ² / ndf 6.6e+06 / 39
p0 150.3 ± 0.0005924
152
151
150
149
148
147
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

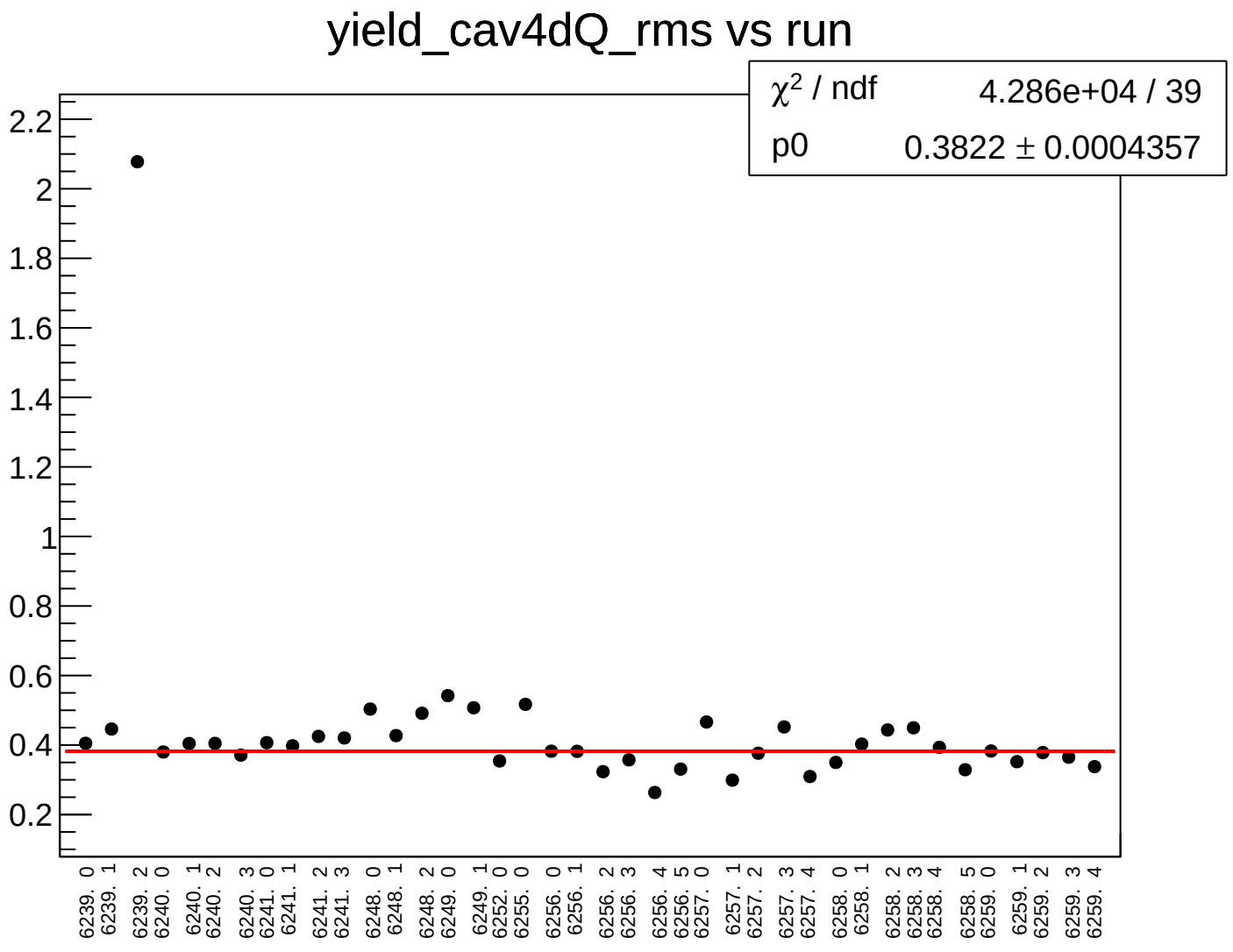

pull
Entries 40
Mean 0.6498
Std Dev 11.83
600
400
200
0
−200
−400
−600
−800

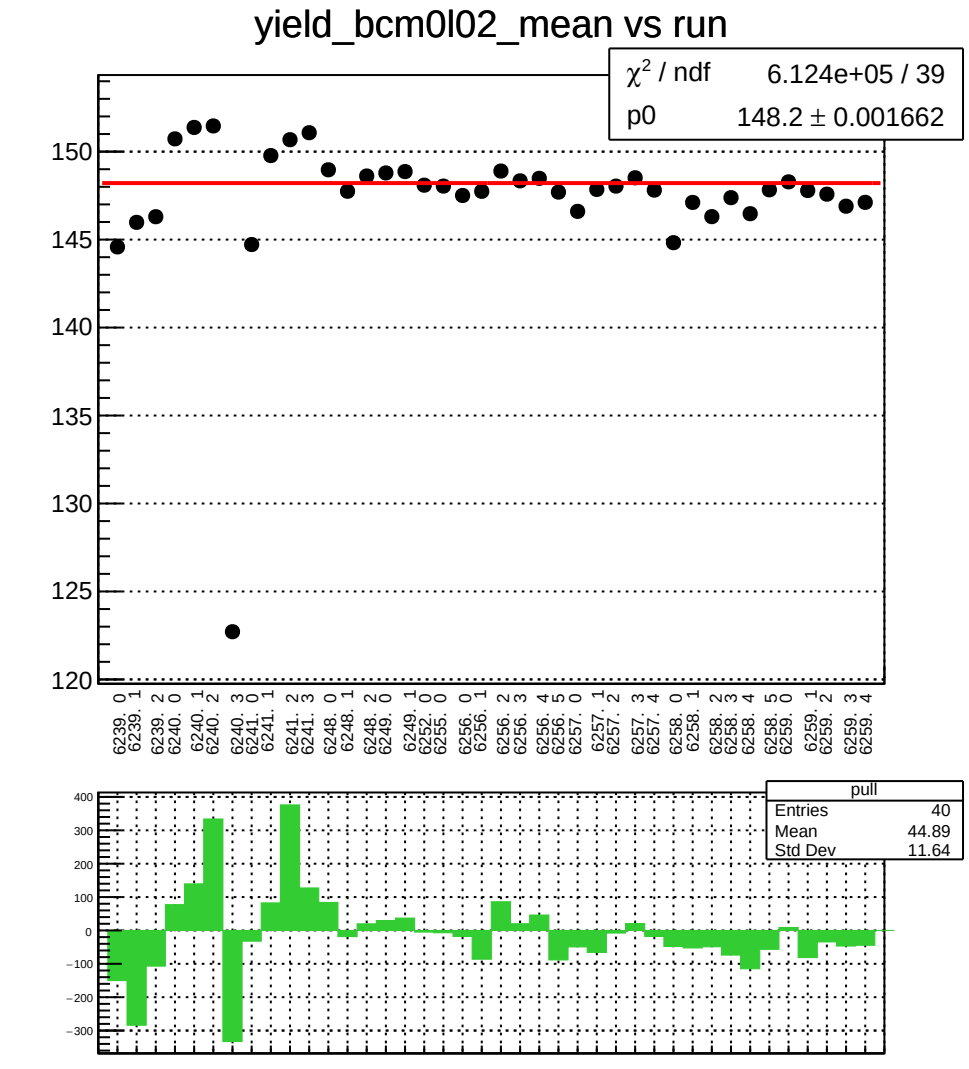

pull1D
Entries 40
Mean 7.233
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

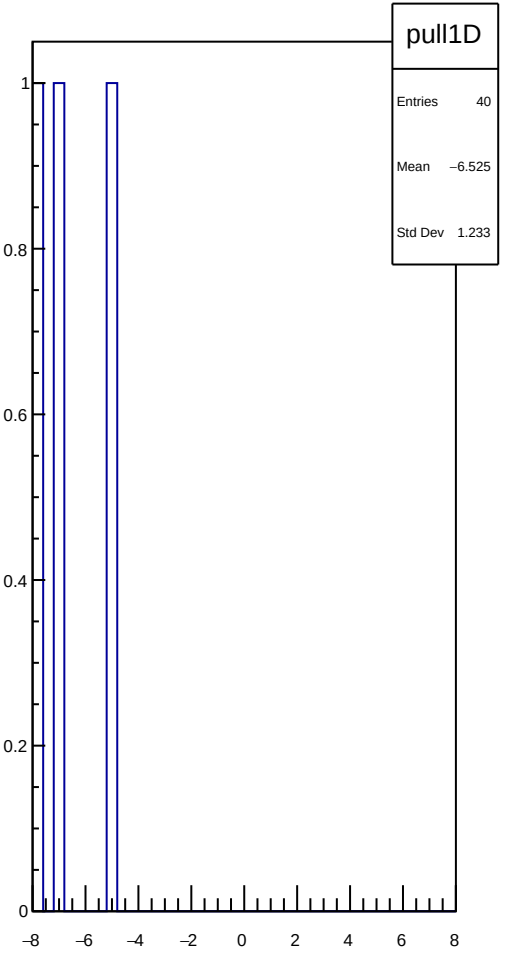

yield_cav4cQ_rms vs run
χ² / ndf 8.878e+04 / 39
p0 0.3563 ± 0.0004189
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

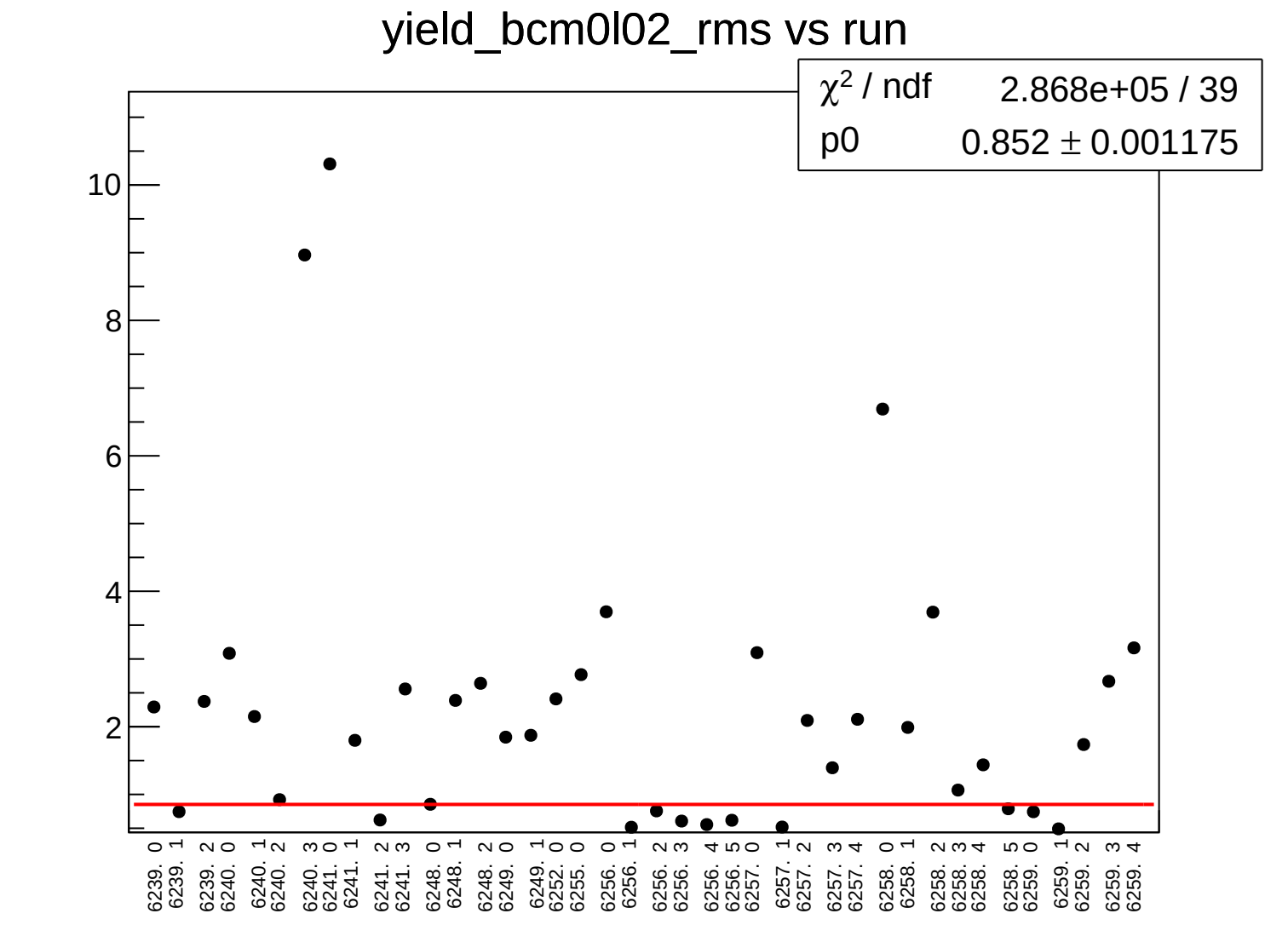

yield_cav4dQ_mean vs run
χ² / ndf 3.343e+06 / 39
p0 149.9 ± 0.0006162
151
150
149
148
147
146
145
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −62.22
Std Dev 78.42
200
0
−200
−400
−600
−800
−1000

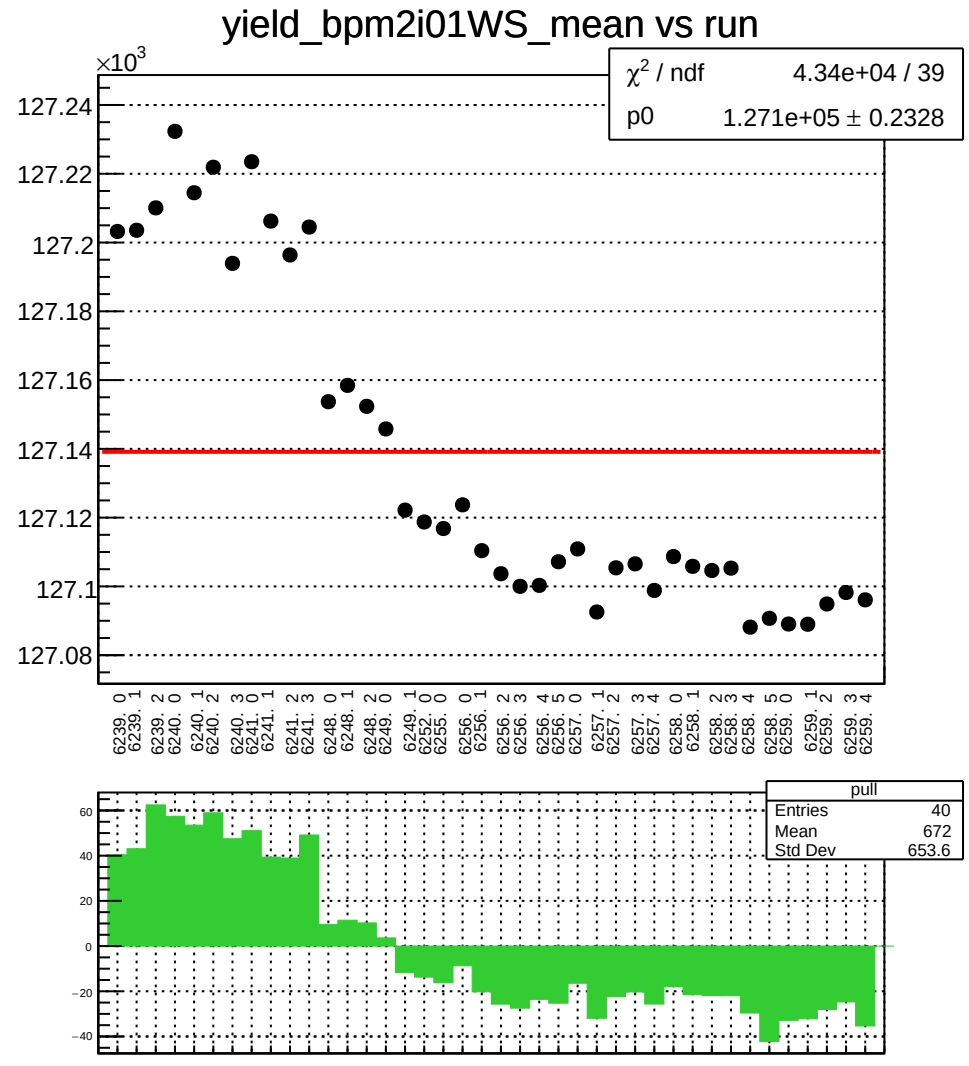

pull1D
Entries 40
Mean 0.7696
Std Dev 4.182
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

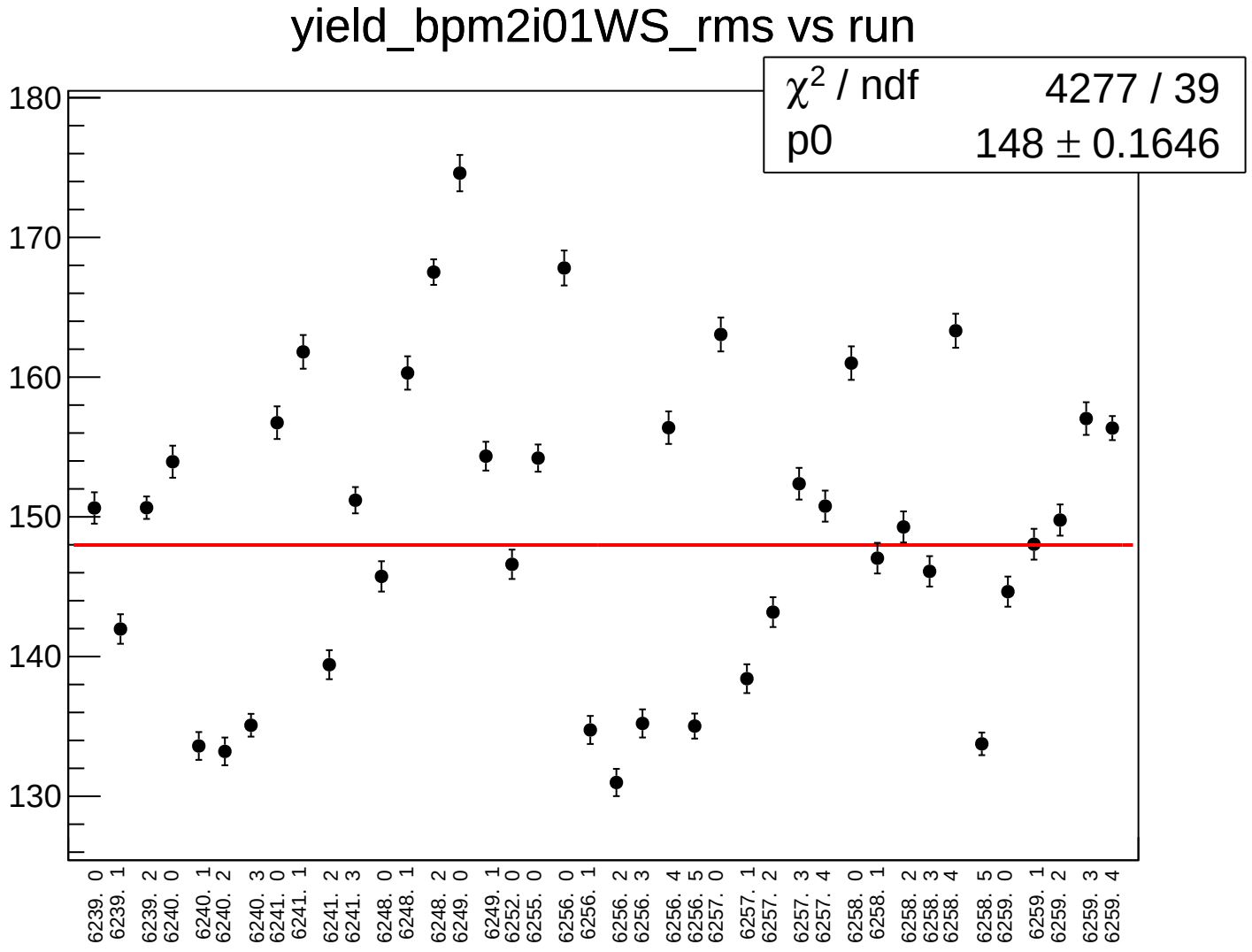

yield_cav4dQ_rms vs run
χ² / ndf 4.286e+04 / 39
p0 0.3822 ± 0.0004357
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

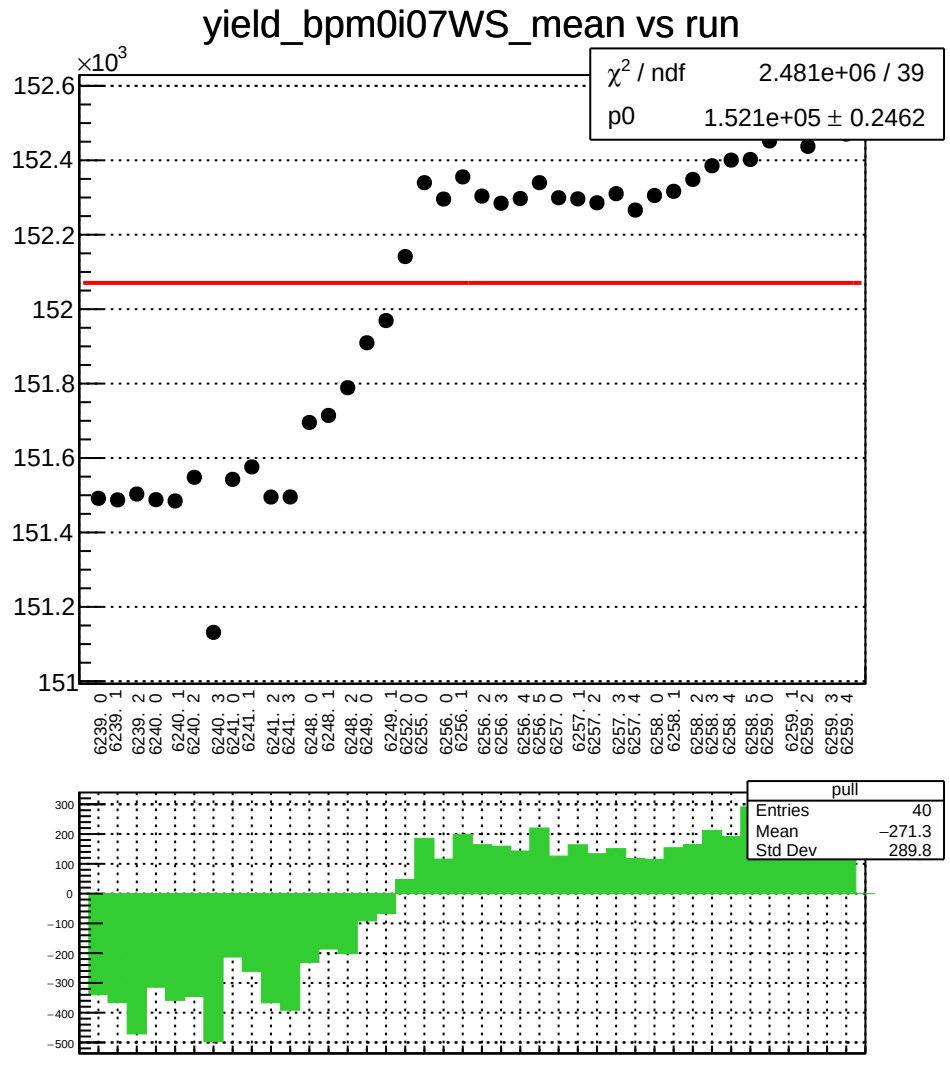

yield_bcm0l02_mean vs run
χ² / ndf 6.124e+05 / 39
p0 148.2 ± 0.001662
150
145
140
135
130
125
120
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 44.89
Std Dev 11.64
400
300
200
100
0
−100
−200
−300

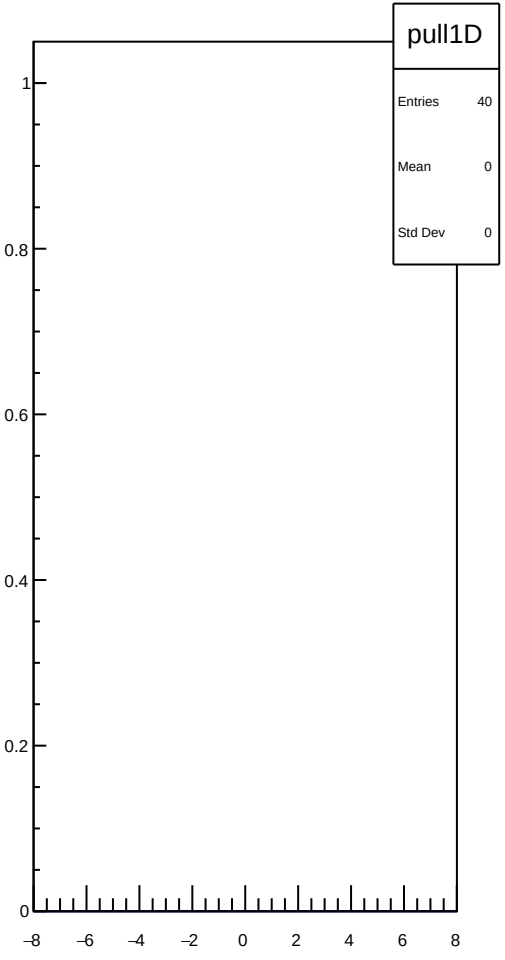

pull1D
Entries 40
Mean −6.525
Std Dev 1.233
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

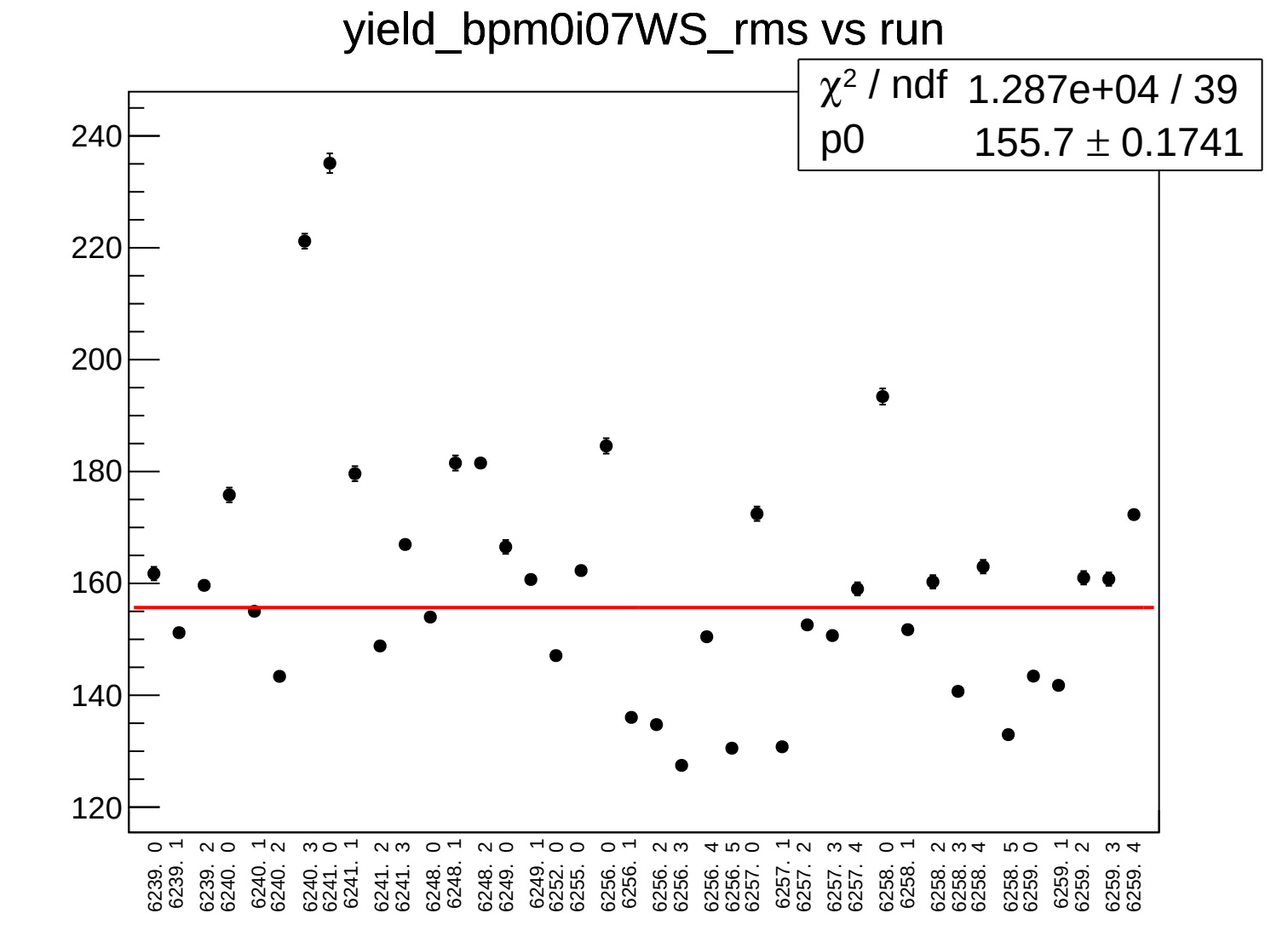

yield_bcm0l02_rms vs run
$\chi^2$ / ndf 2.868e+05 / 39
p0 0.852 ± 0.001175
10
8
6
4
2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

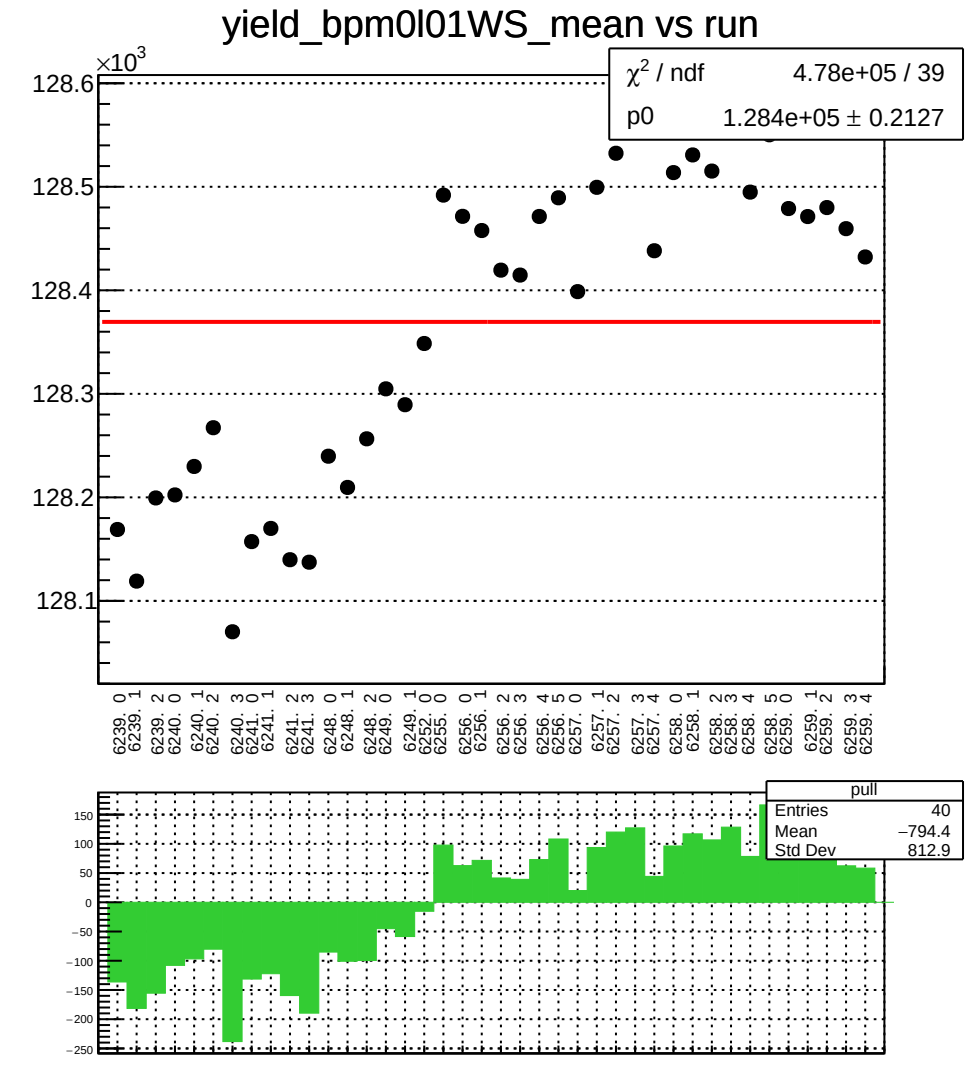

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.34e+04 / 39
p0 1.271e+05 ± 0.2328
127.24
127.22
127.2
127.18
127.16
127.14
127.12
127.1
127.08
6239. 0
6239. 1
6239. 2
6239. 3
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6248. 3
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 672
Std Dev 653.6
60
40
20
0
−20
−40
pull1D
Entries 40
Mean 3.615
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

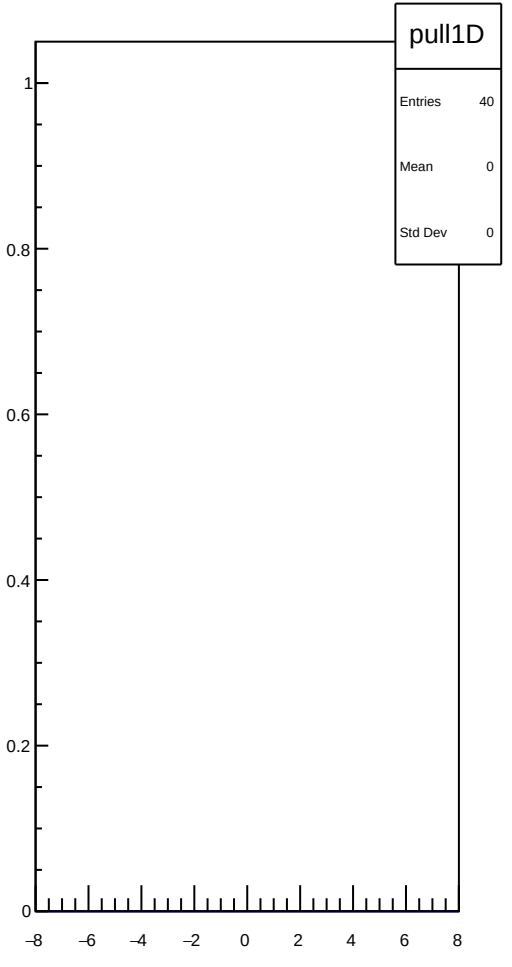

yield_bpm2i01WS_rms vs run
χ² / ndf 4277 / 39
p0 148 ± 0.1646
180
170
160
150
140
130
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

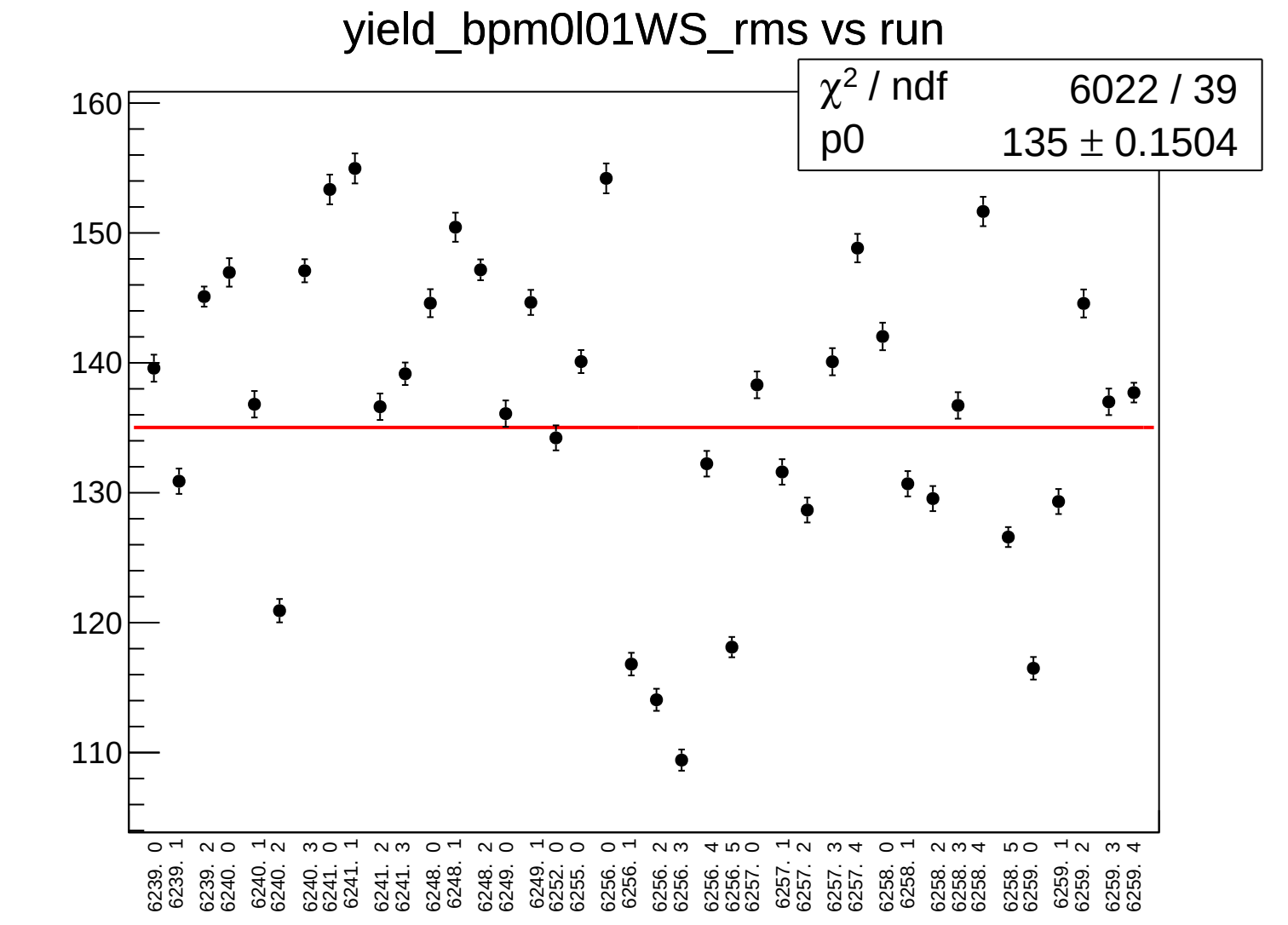

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.481e+06 / 39
p0 1.521e+05 ± 0.2462
152.6
152.4
152.2
152
151.8
151.6
151.4
151.2
151
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −271.3
Std Dev 289.8
300
200
100
0
−100
−200
−300
−400
−500

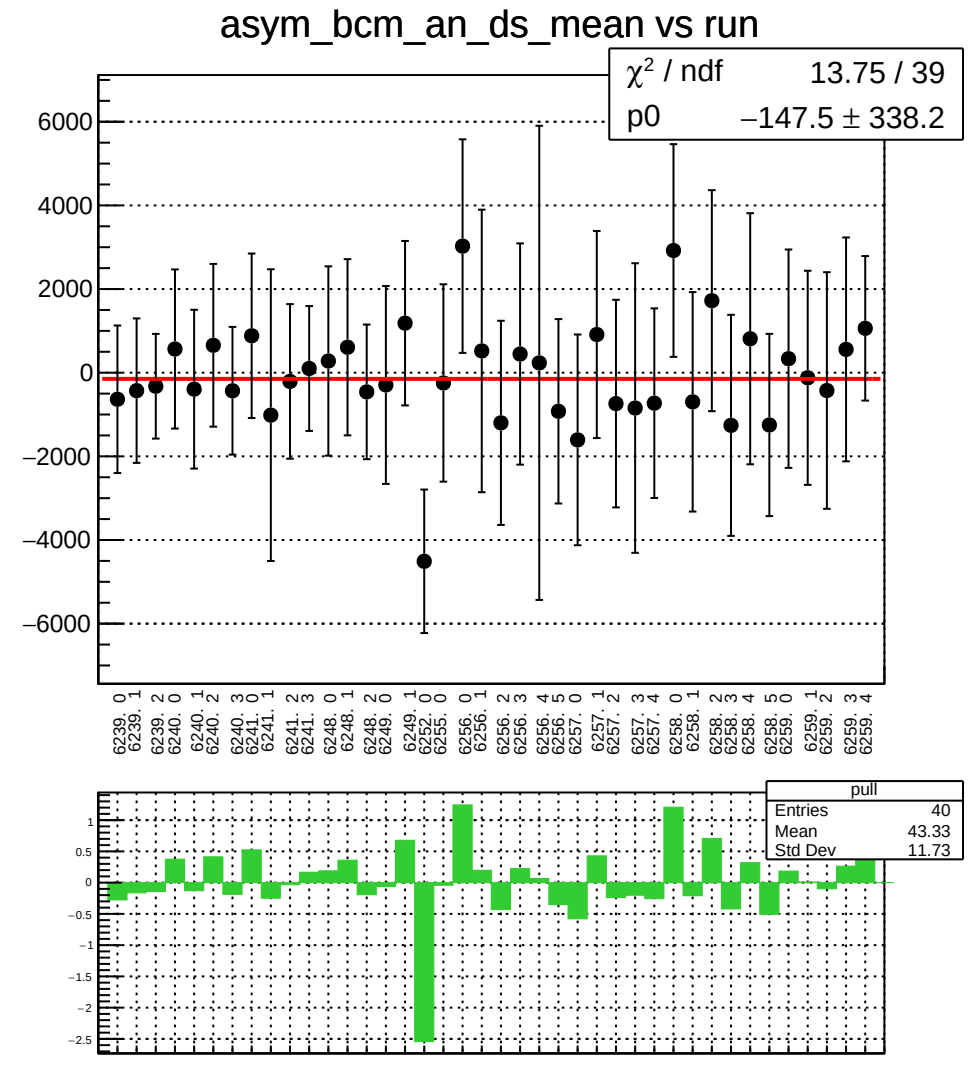

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

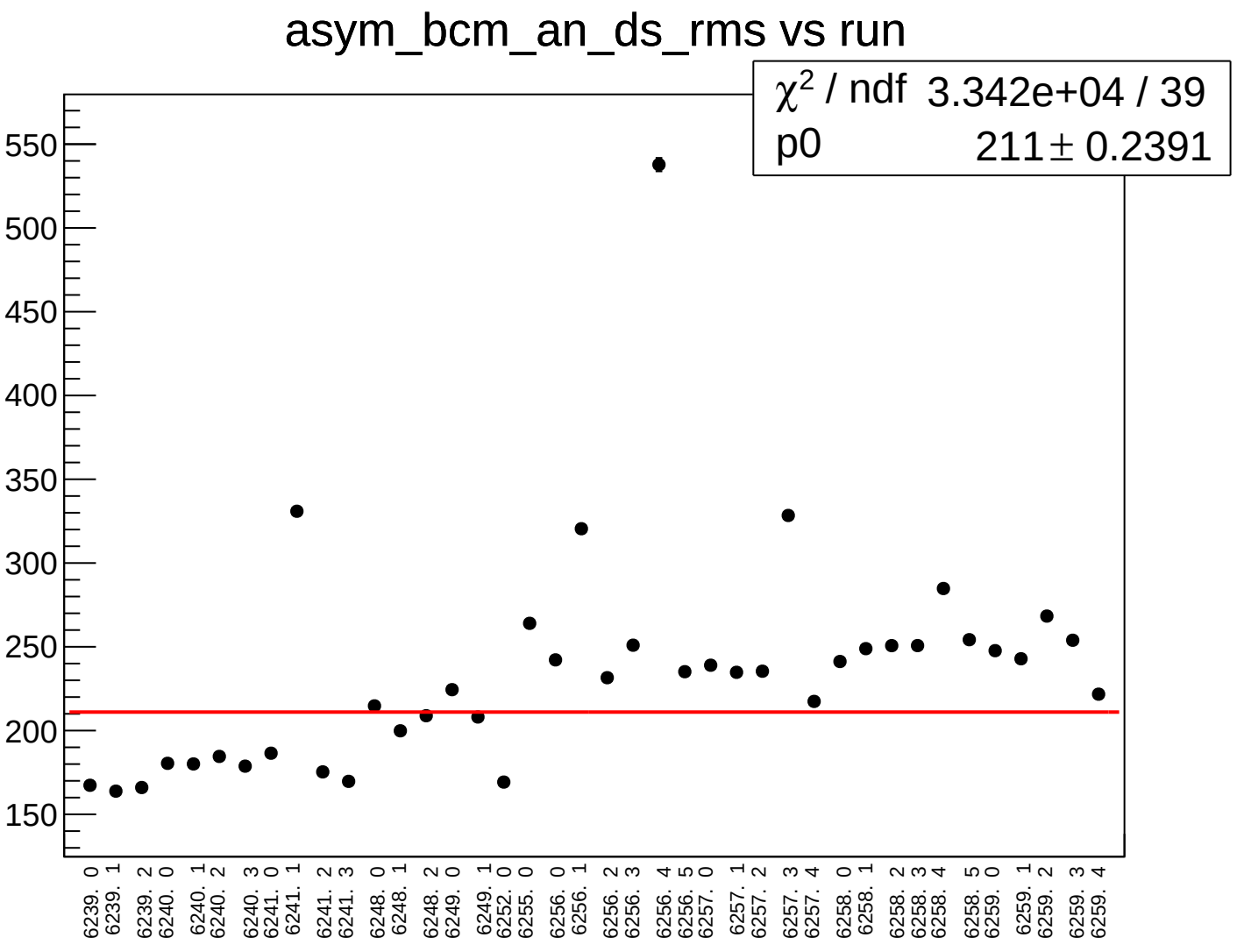

yield_bpm0i07WS_rms vs run
χ² / ndf 1.287e+04 / 39
p0 155.7 ± 0.1741
240
220
200
180
160
140
120
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

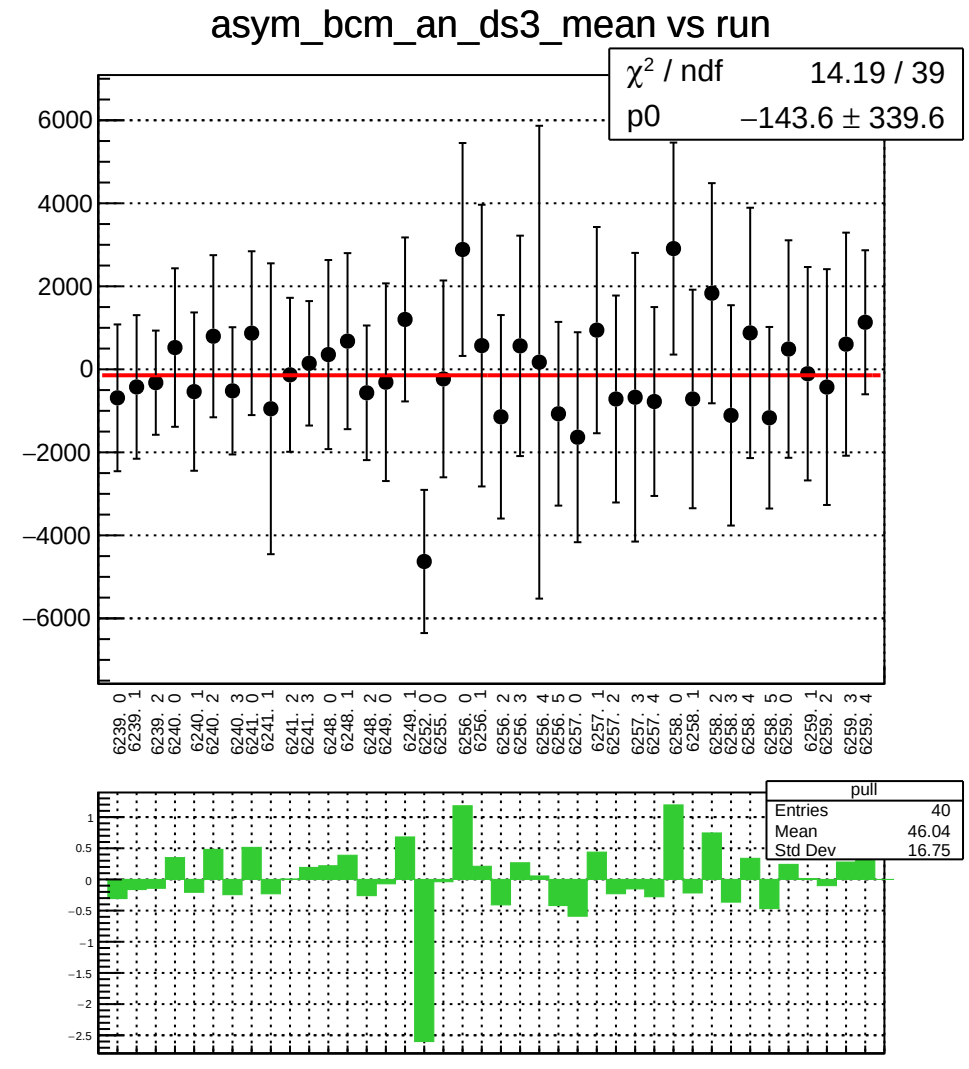

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.78e+05 / 39
p0 1.284e+05 ± 0.2127
128.6
128.5
128.4
128.3
128.2
128.1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −794.4
Std Dev 812.9
150
100
50
0
−50
−100
−150
−200
−250

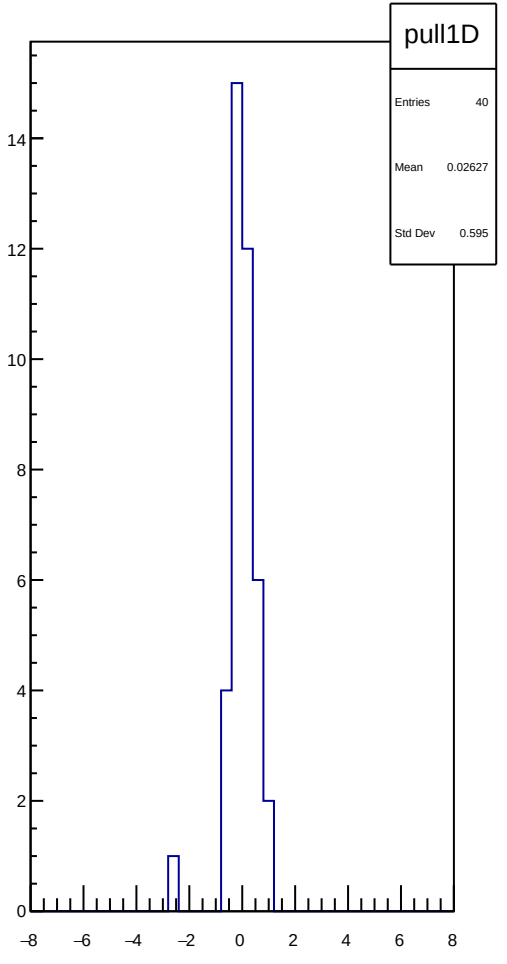

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

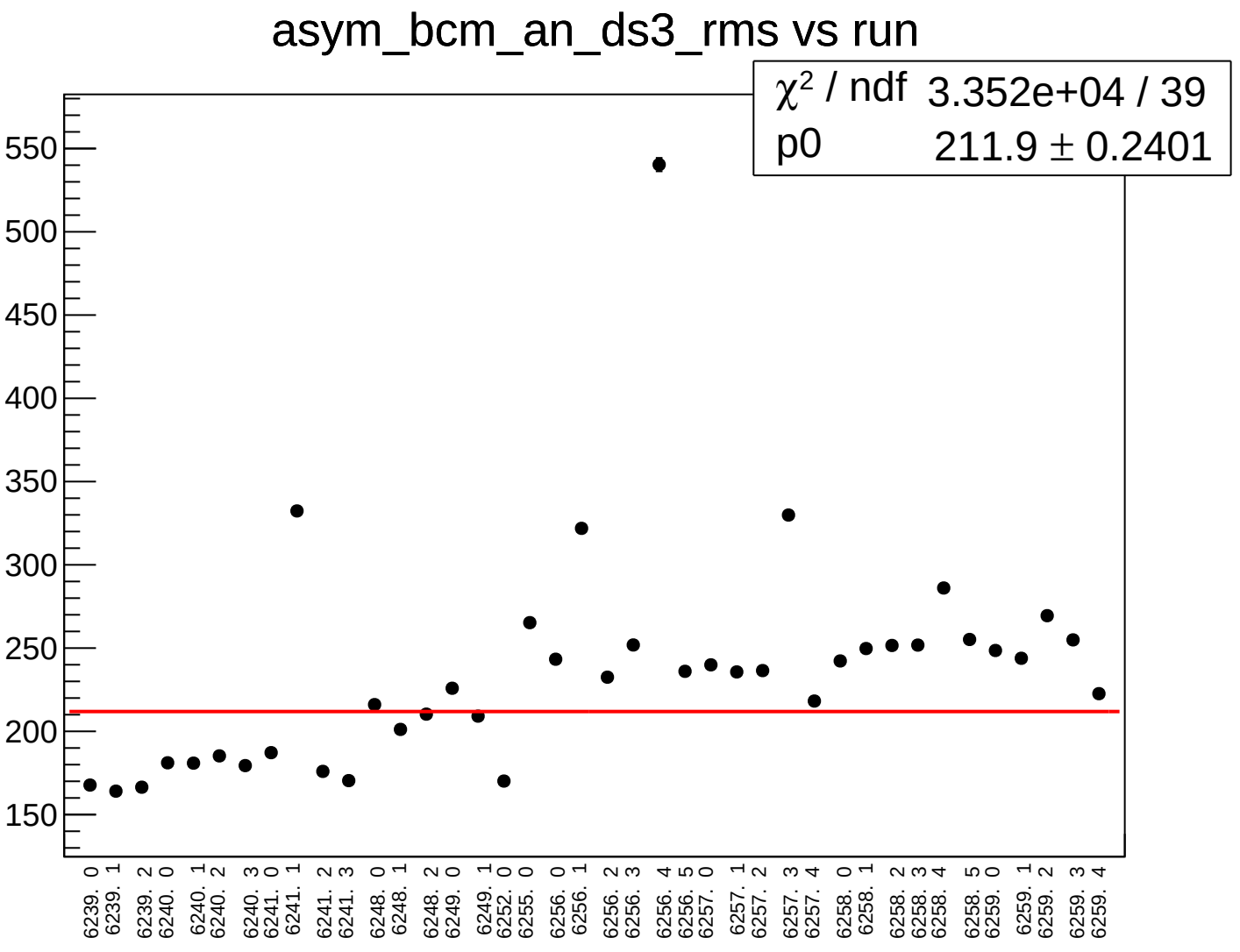

yield_bpm0l01WS_rms vs run
χ² / ndf 6022 / 39
p0 135 ± 0.1504
160
150
140
130
120
110
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

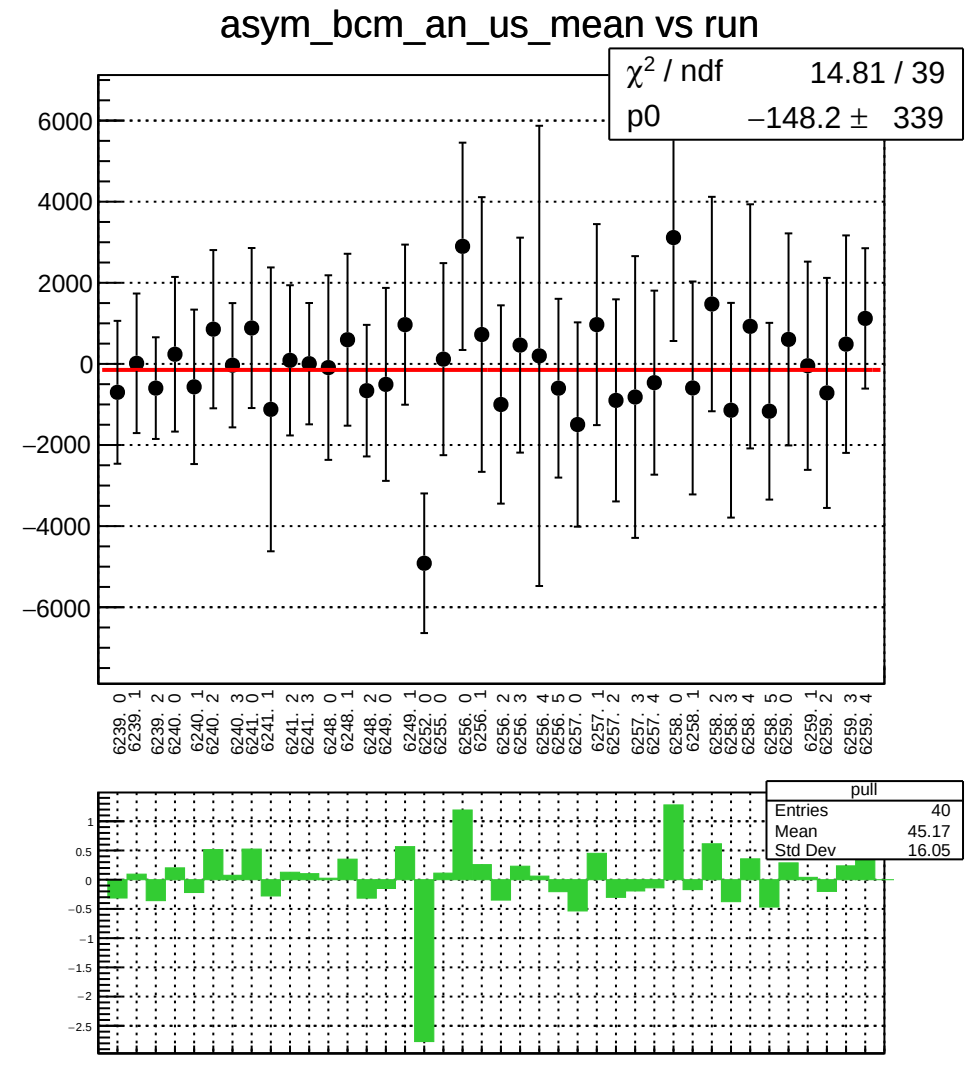

asym_bcm_an_ds_mean vs run
χ² / ndf 13.75 / 39
p0 −147.5 ± 338.2
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.33
Std Dev 11.73
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.02369
Std Dev 0.5858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

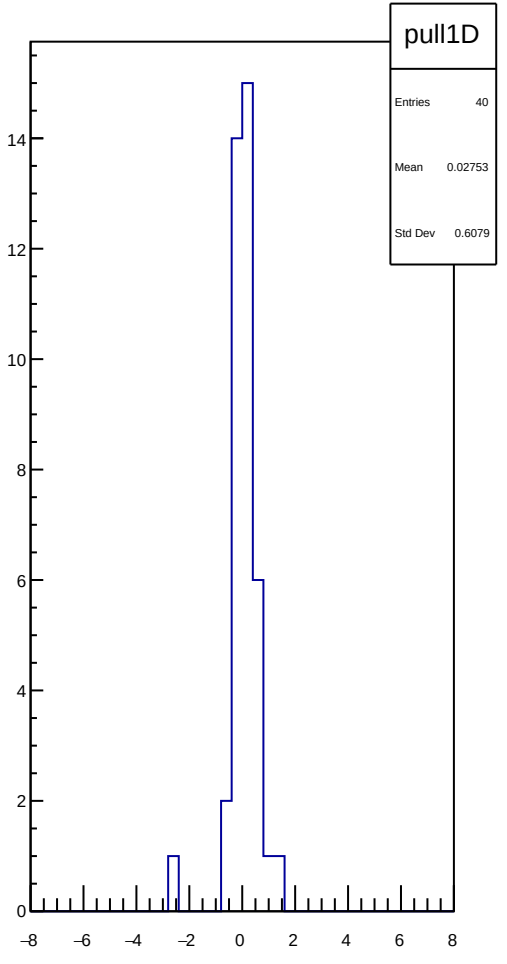

asym_bcm_an_ds_rms vs run
$\chi^2$ / ndf 3.342e+04 / 39
p0 211 ± 0.2391
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

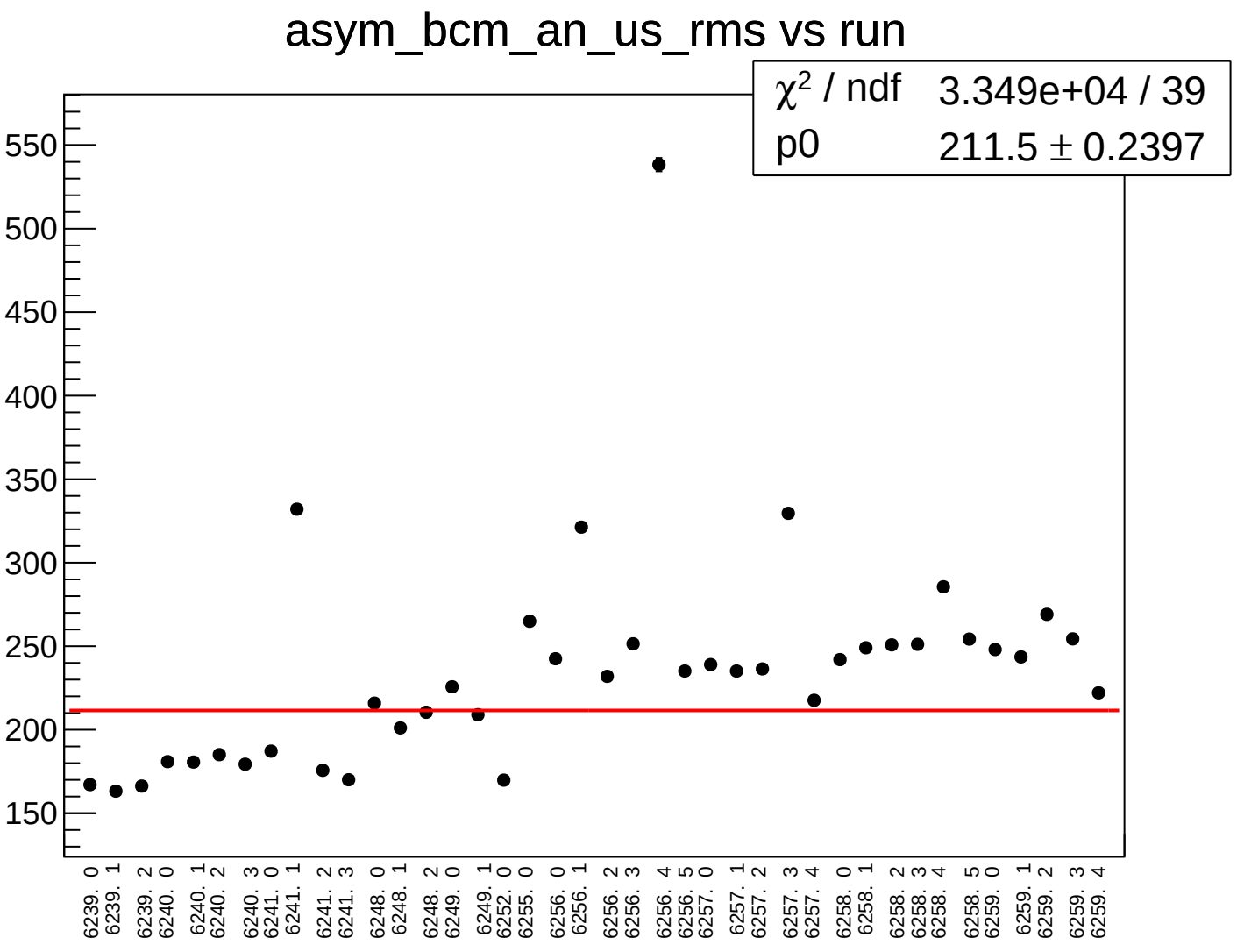

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.19 / 39
p0 −143.6 ± 339.6
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 46.04
Std Dev 16.75
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

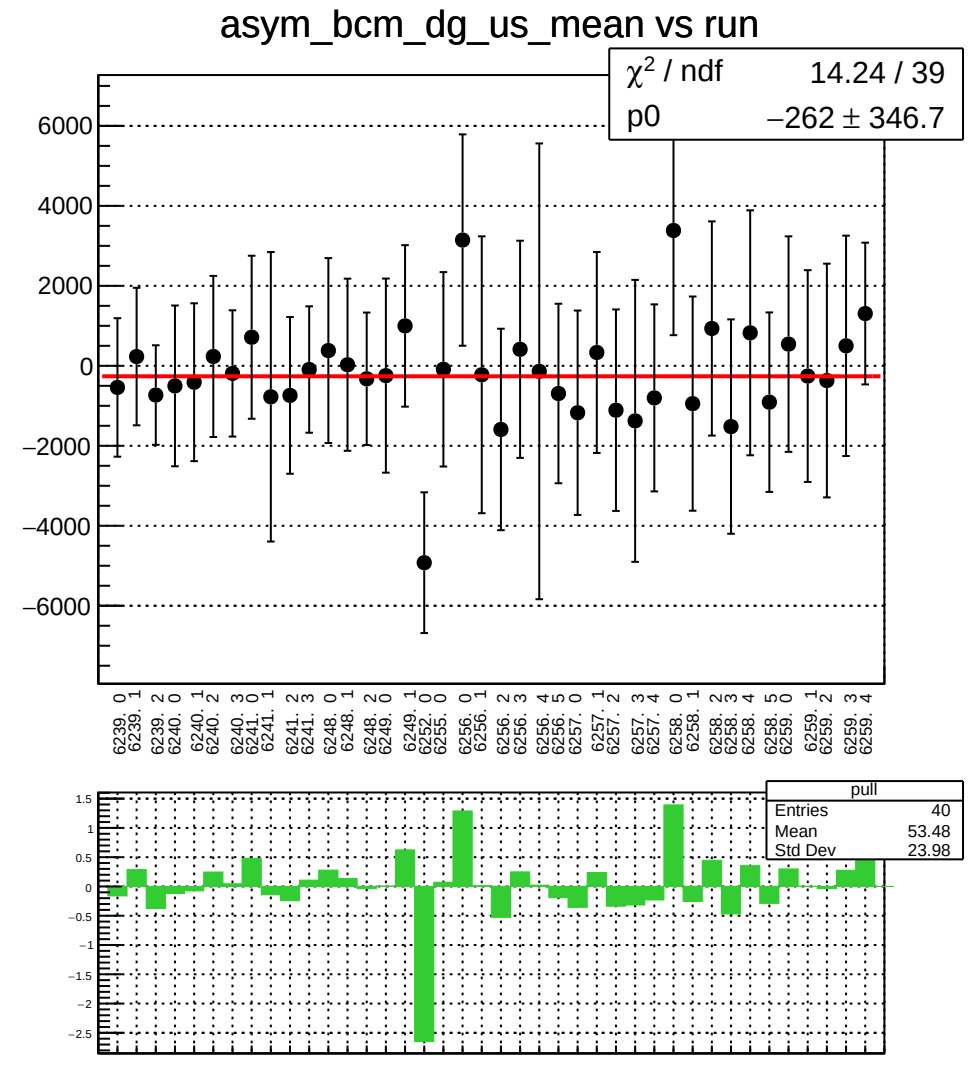

pull1D
Entries 40
Mean 0.02627
Std Dev 0.595
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

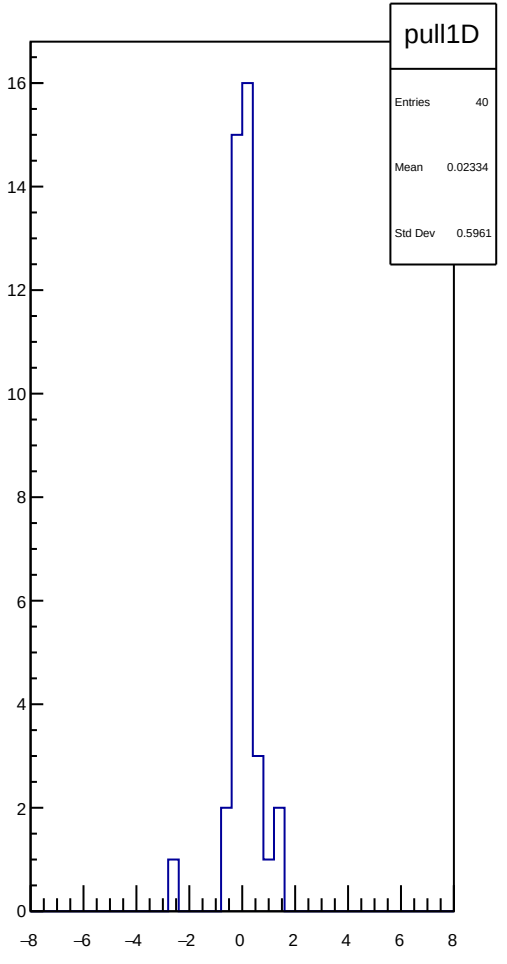

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.352e+04 / 39
p0 211.9 ± 0.2401
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

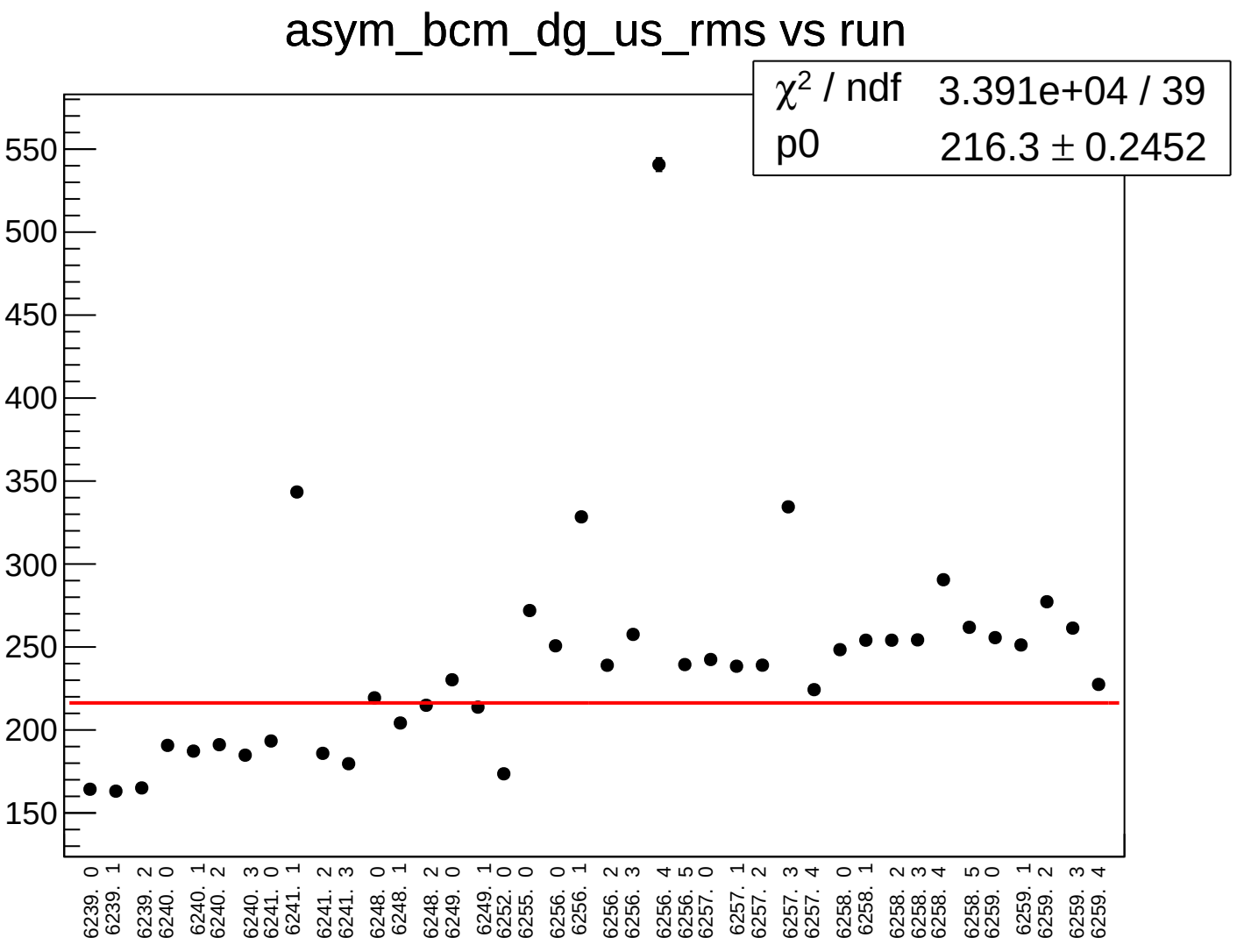

asym_bcm_an_us_mean vs run
χ² / ndf 14.81 / 39
p0 −148.2 ± 339
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.17
Std Dev 16.05
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

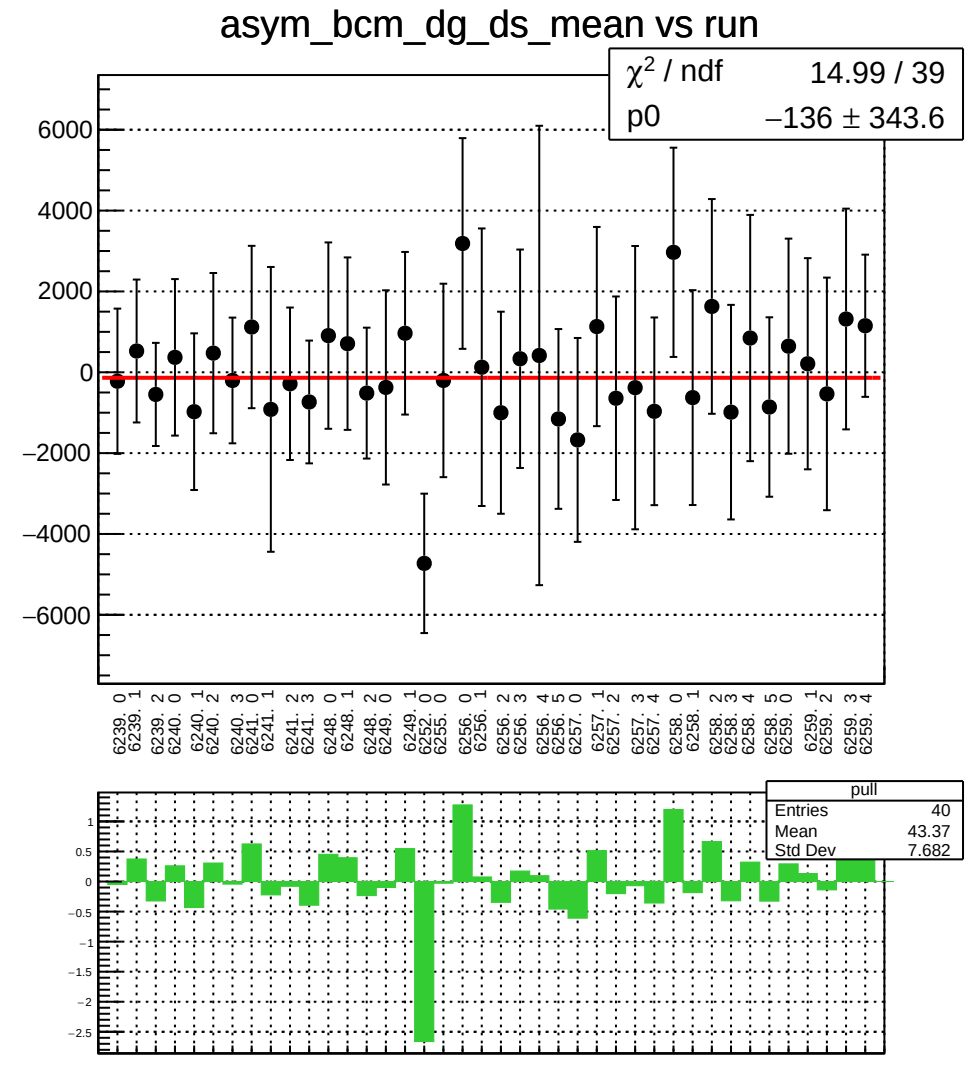

pull1D
Entries 40
Mean 0.02753
Std Dev 0.6079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

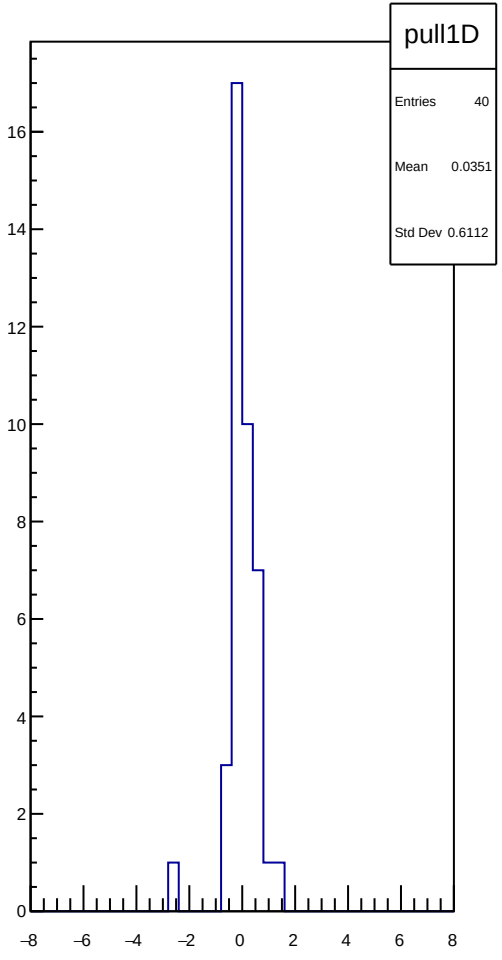

asym_bcm_an_us_rms vs run
$\chi^2$ / ndf 3.349e+04 / 39
p0 211.5 ± 0.2397
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

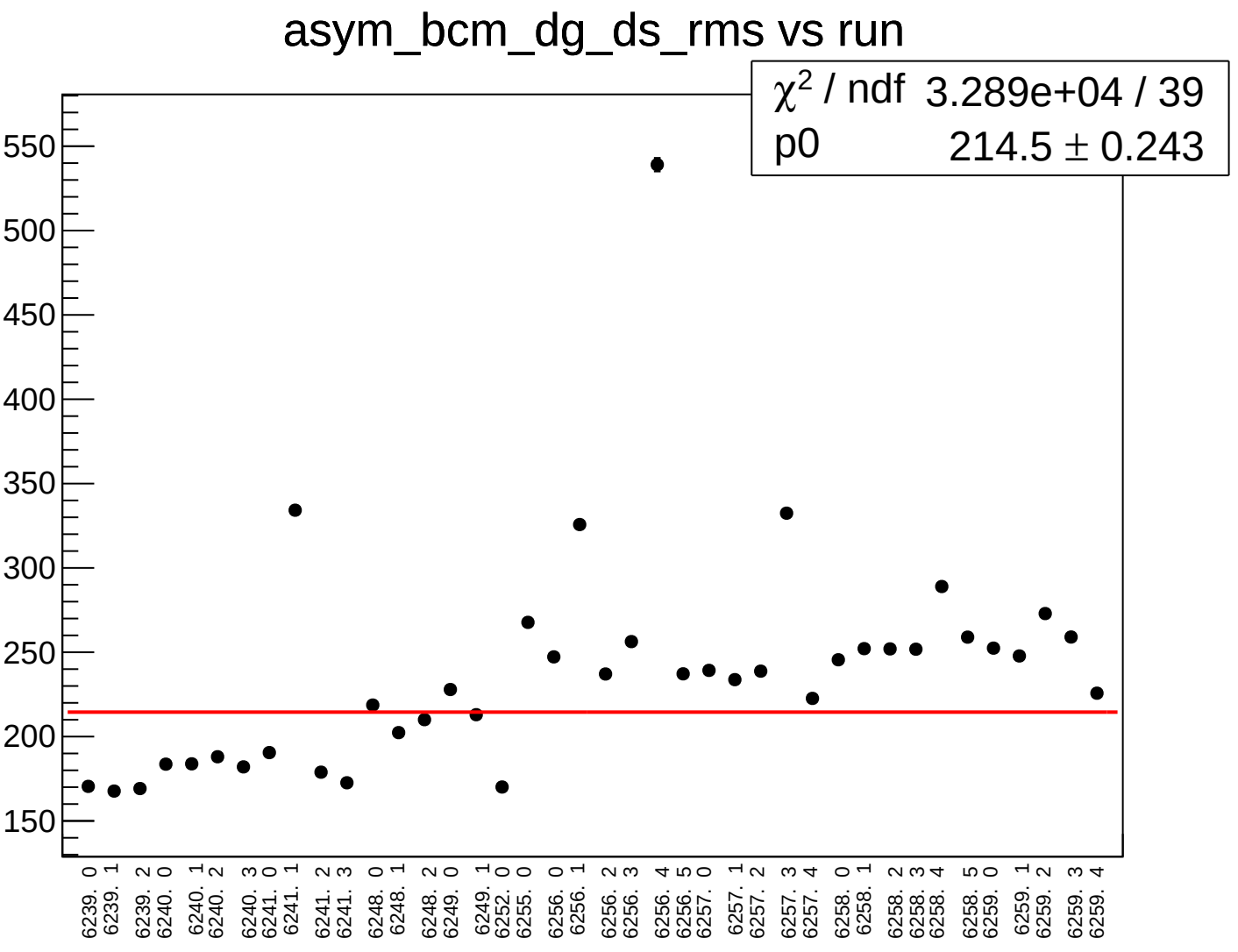

asym_bcm_dg_us_mean vs run
χ² / ndf 14.24 / 39
p0 −262 ± 346.7
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 53.48
Std Dev 23.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

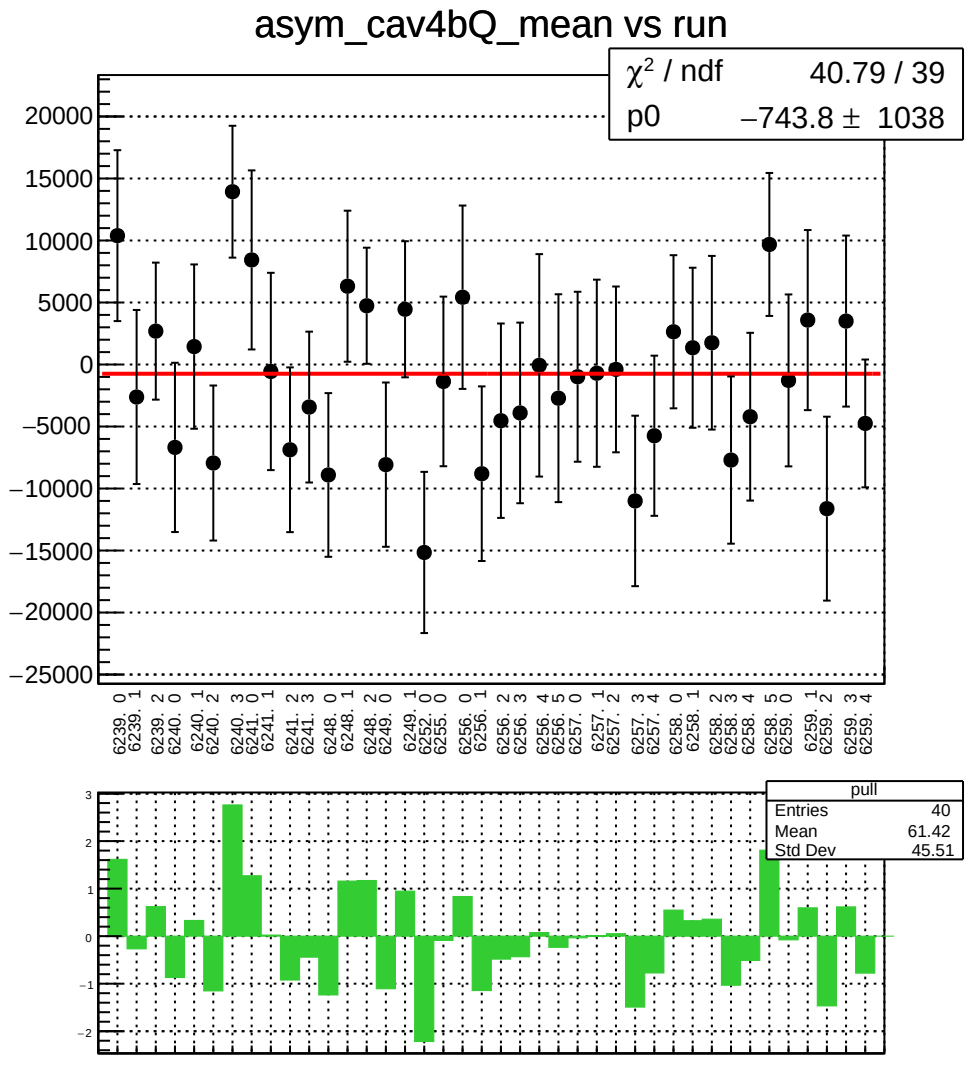

pull1D
Entries 40
Mean 0.02334
Std Dev 0.5961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

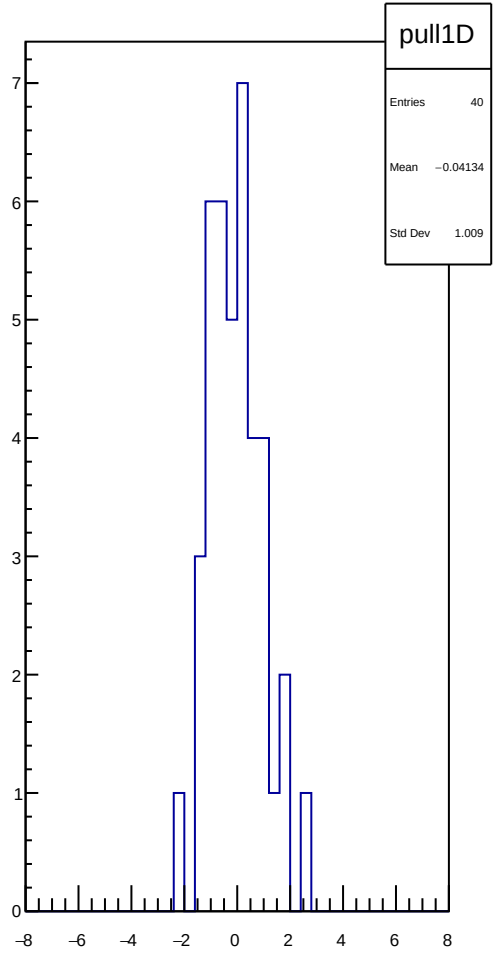

asym_bcm_dg_us_rms vs run
$\chi^2$ / ndf 3.391e+04 / 39
p0 216.3 ± 0.2452
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

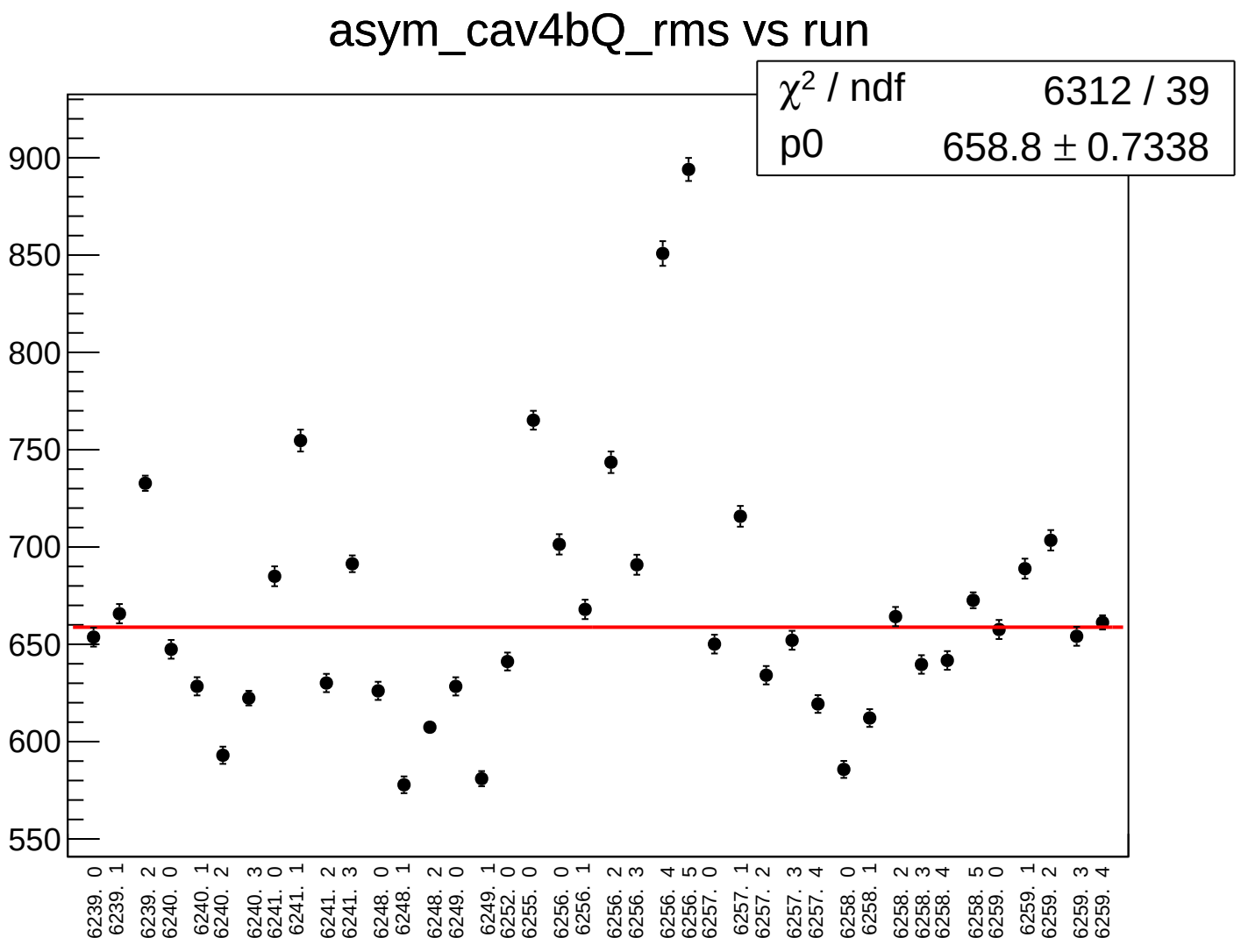

asym_bcm_dg_ds_mean vs run
χ² / ndf 14.99 / 39
p0 −136 ± 343.6
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.37
Std Dev 7.682
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

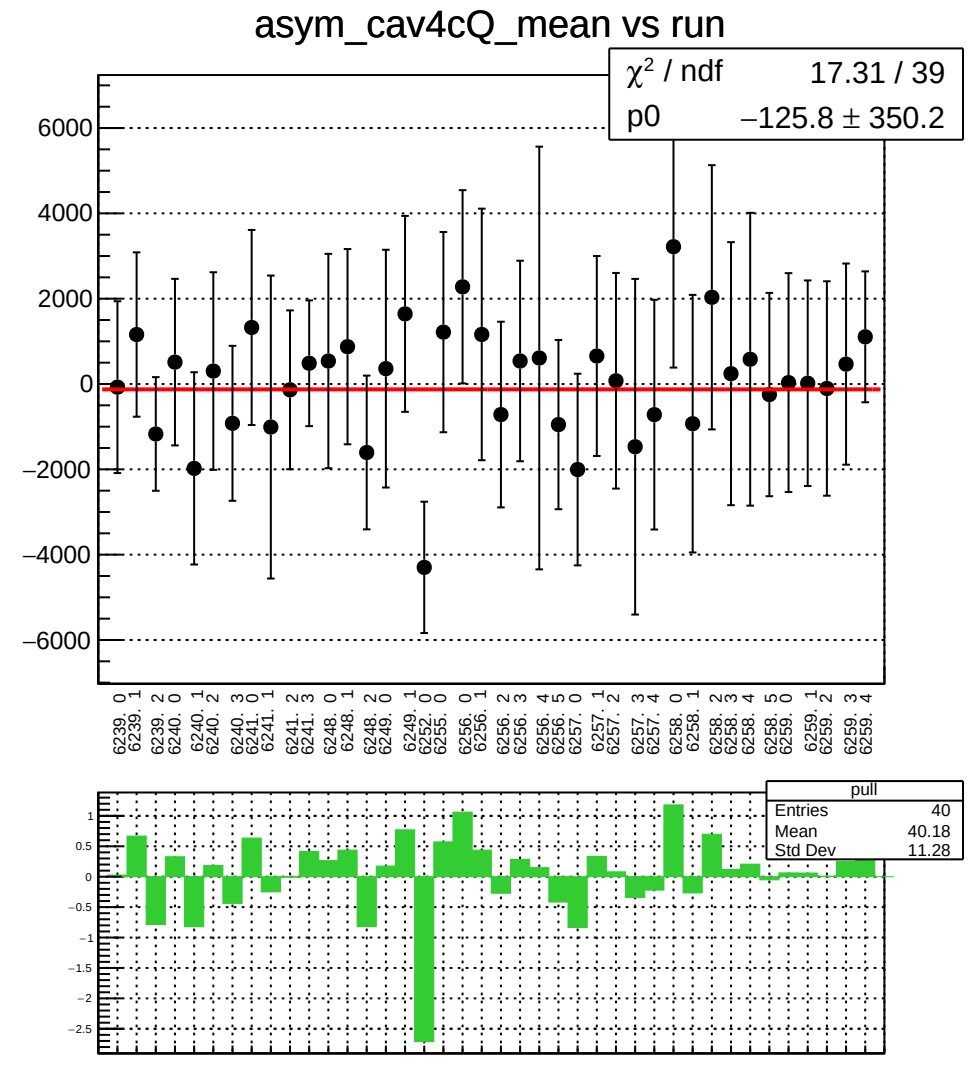

pull1D
Entries 40
Mean 0.0351
Std Dev 0.6112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

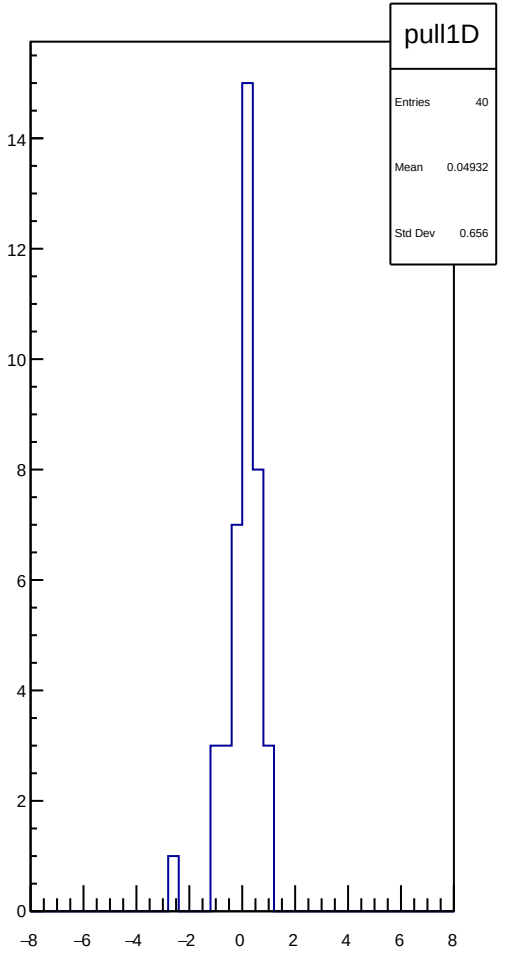

asym_bcm_dg_ds_rms vs run
$\chi^2$ / ndf 3.289e+04 / 39
p0 214.5 ± 0.243
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

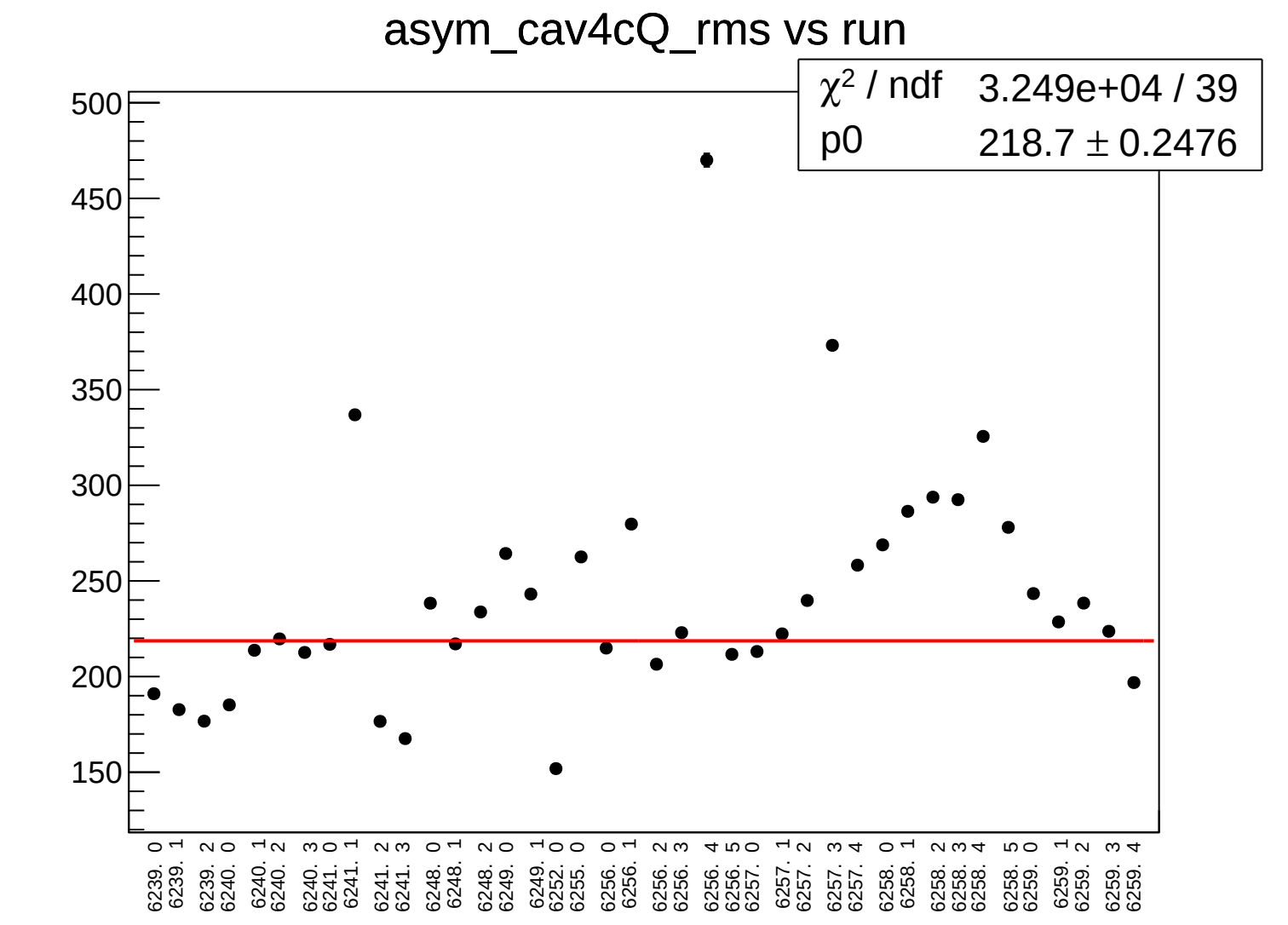

asym_cav4bQ_mean vs run
χ² / ndf 40.79 / 39
p0 −743.8 ± 1038
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 61.42
Std Dev 45.51
3
2
1
0
−1
−2

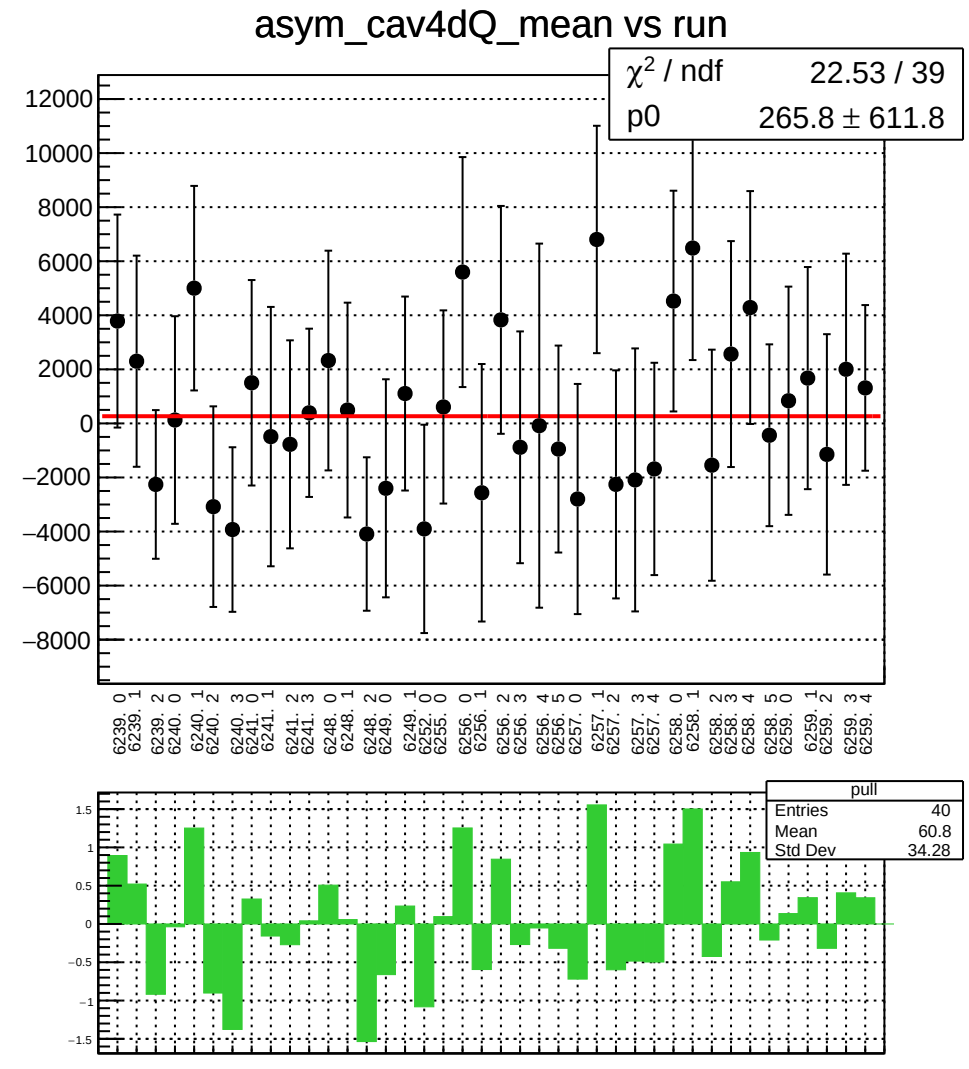

pull1D
Entries 40
Mean −0.04134
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

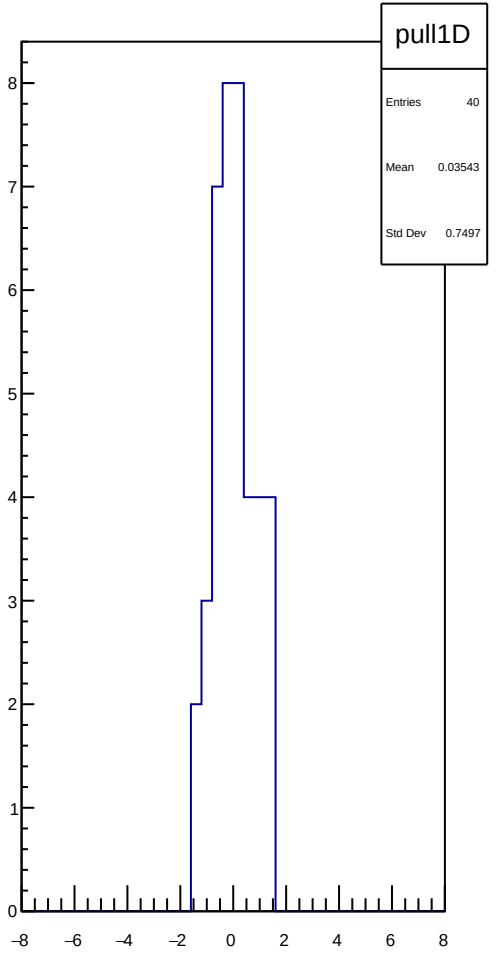

asym_cav4bQ_rms vs run
χ² / ndf 6312 / 39
p0 658.8 ± 0.7338
900
850
800
750
700
650
600
550
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

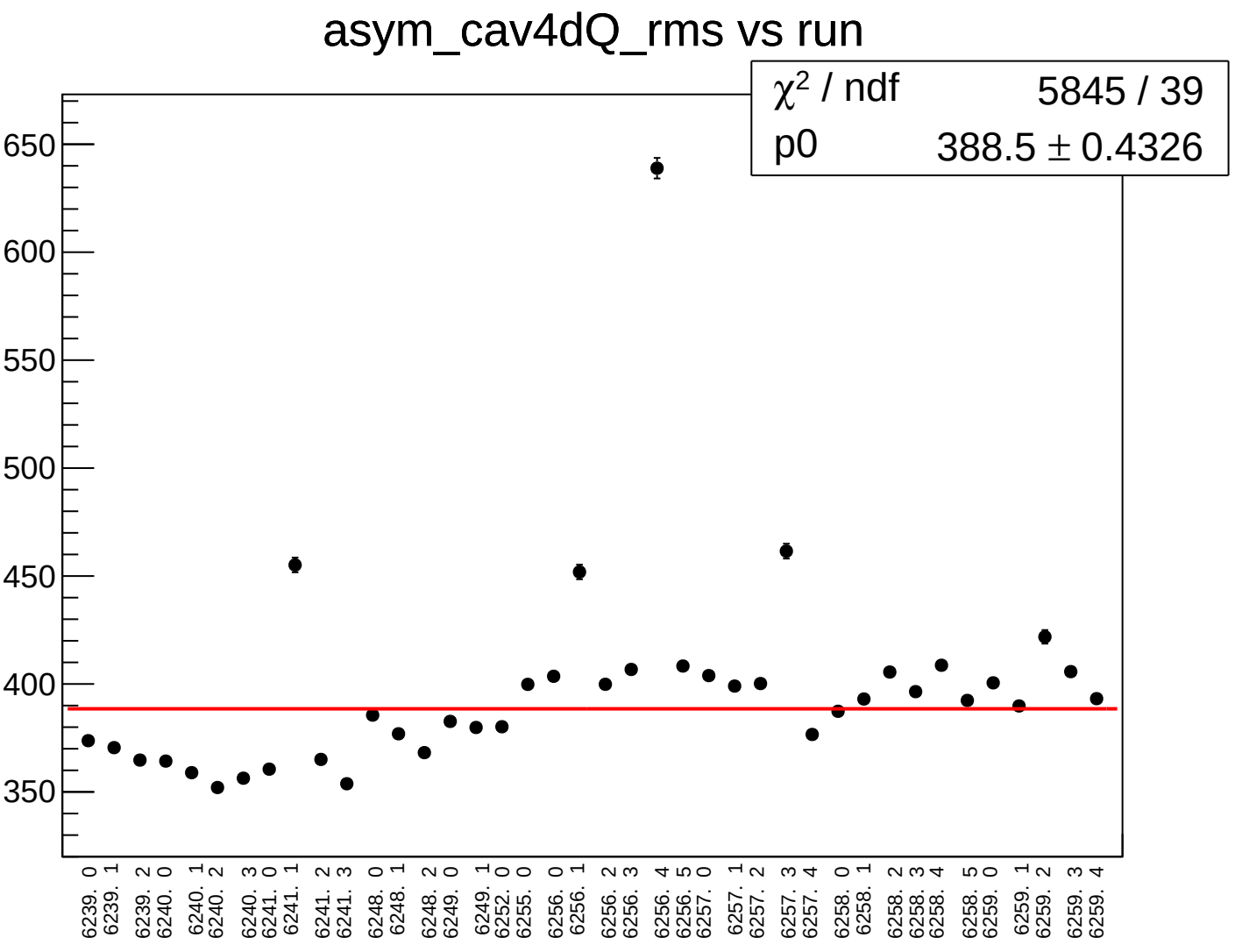

asym_cav4cQ_mean vs run
χ² / ndf 17.31 / 39
p0 −125.8 ± 350.2
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 40.18
Std Dev 11.28
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

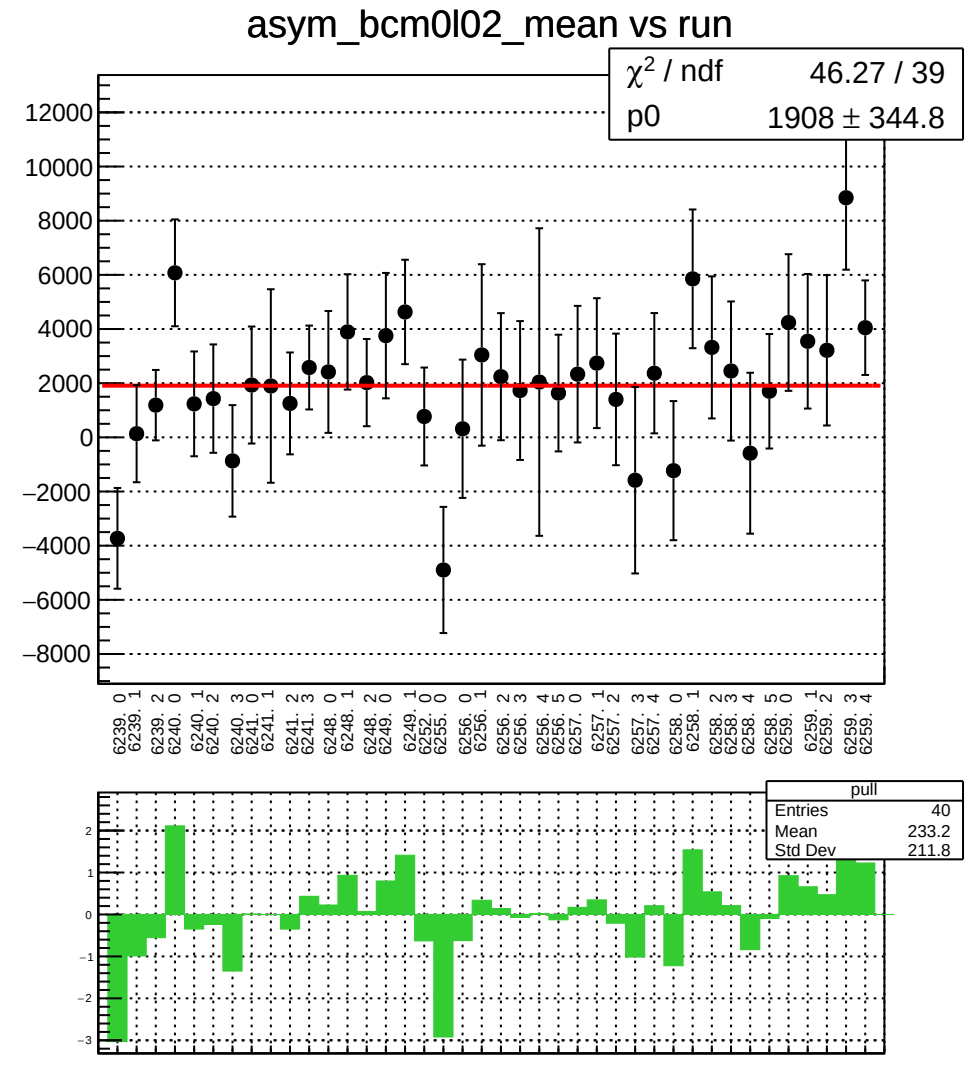

pull1D
Entries 40
Mean 0.04932
Std Dev 0.656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

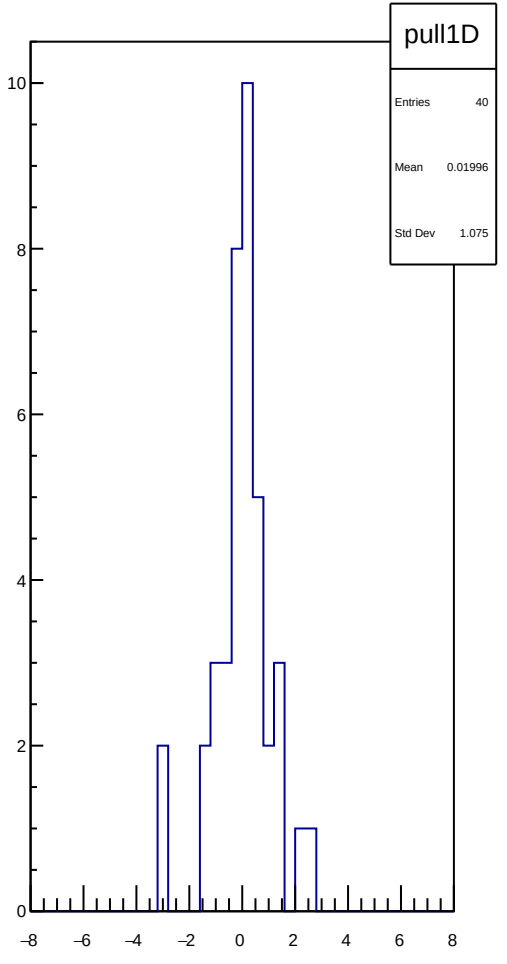

asym_cav4cQ_rms vs run
χ² / ndf 3.249e+04 / 39
p0 218.7 ± 0.2476
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

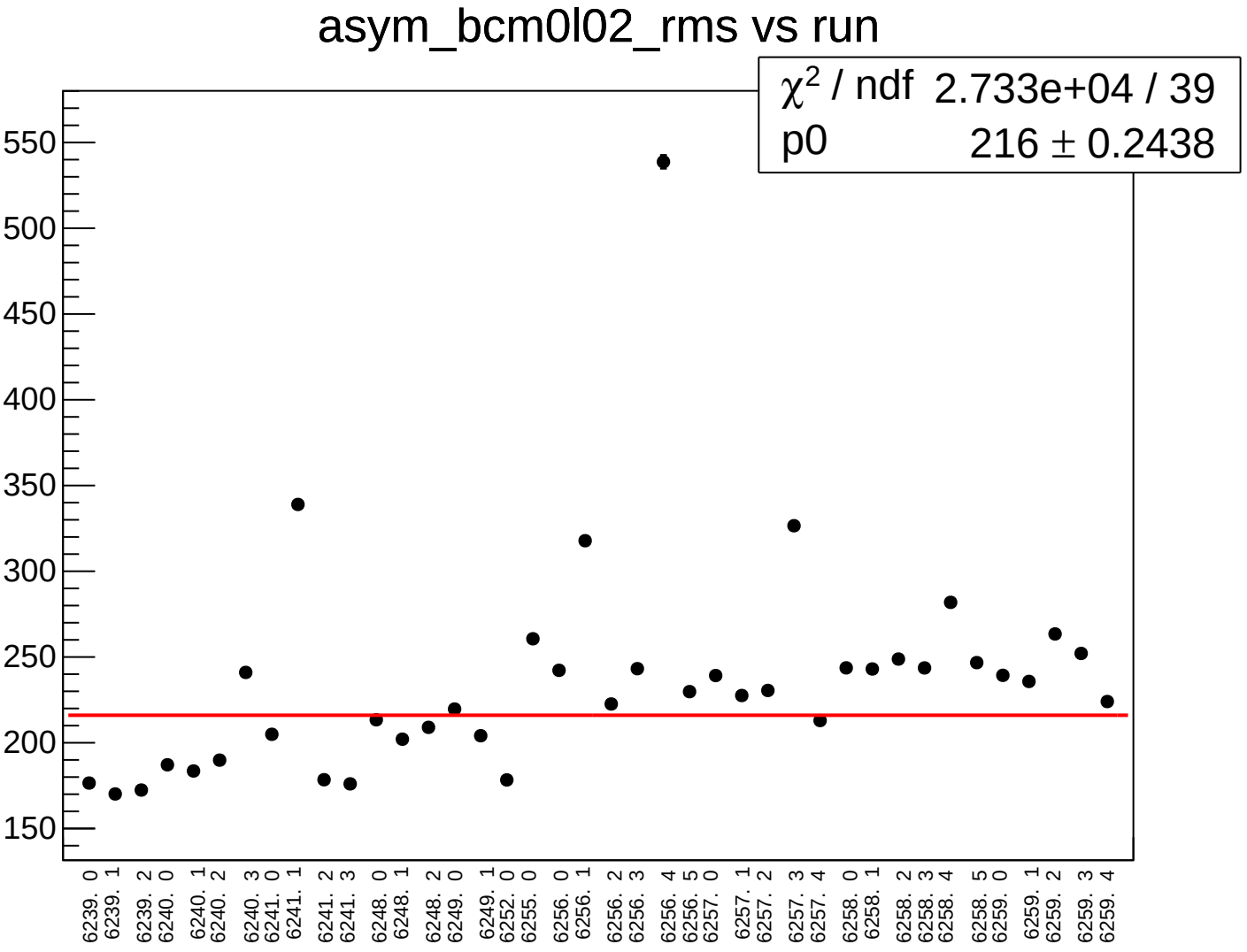

asym_cav4dQ_mean vs run
χ² / ndf 22.53 / 39
p0 265.8 ± 611.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 60.8
Std Dev 34.28
1.5
1
0.5
0
−0.5
−1
−1.5

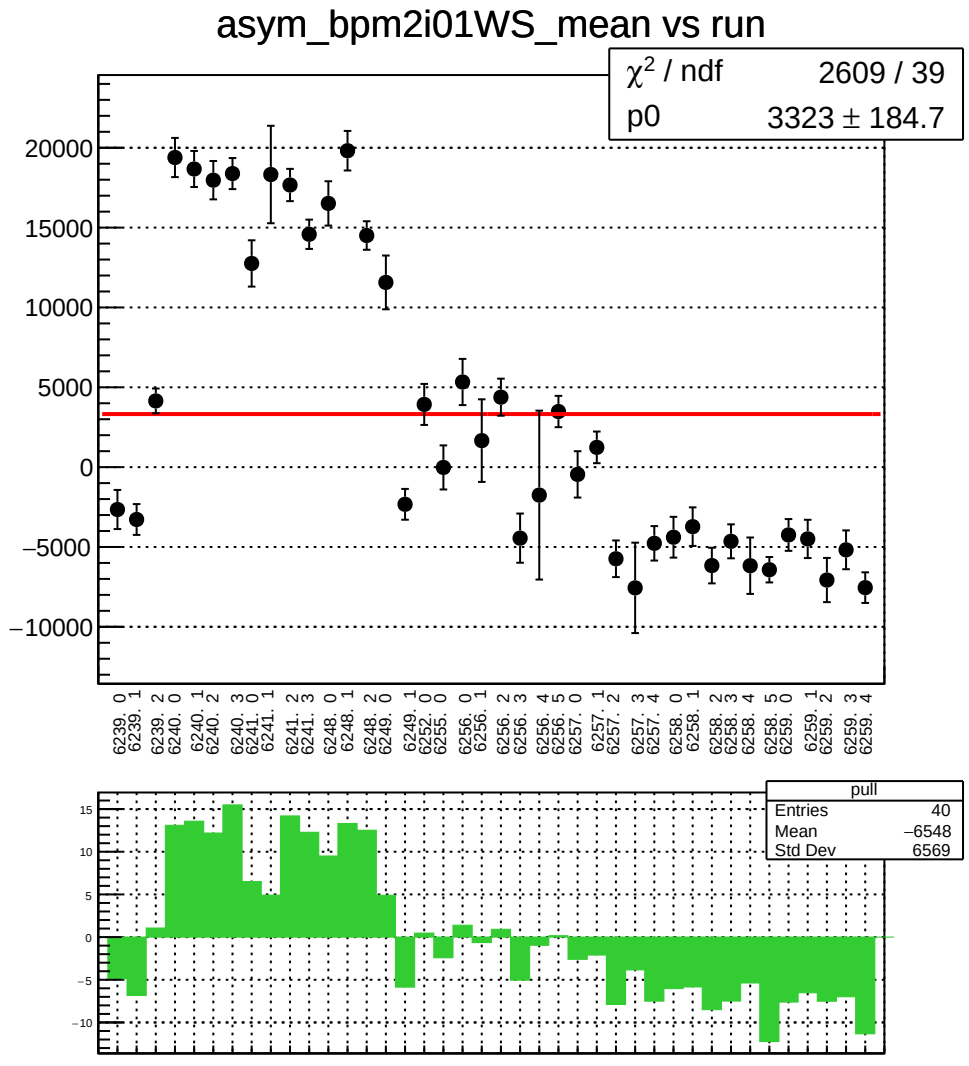

pull1D
Entries 40
Mean 0.03543
Std Dev 0.7497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

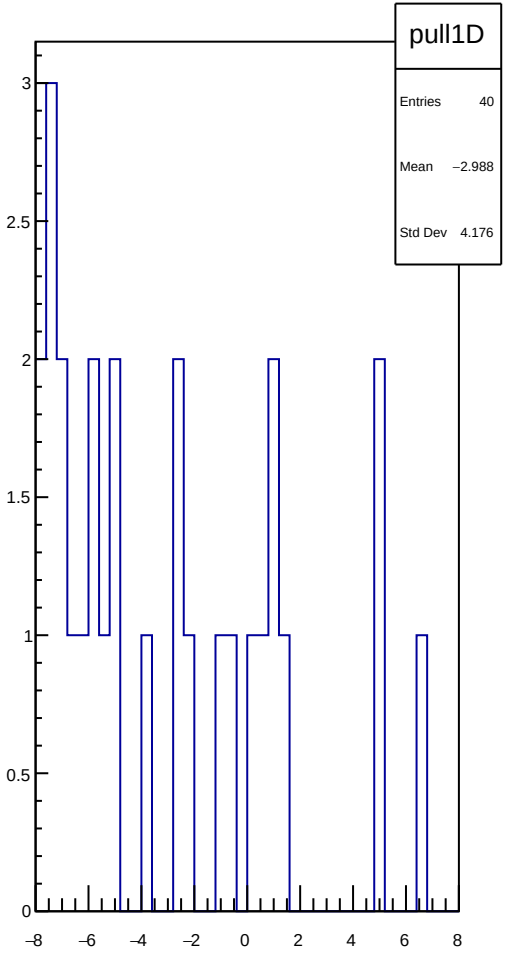

asym_cav4dQ_rms vs run
χ² / ndf 5845 / 39
p0 388.5 ± 0.4326
650
600
550
500
450
400
350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

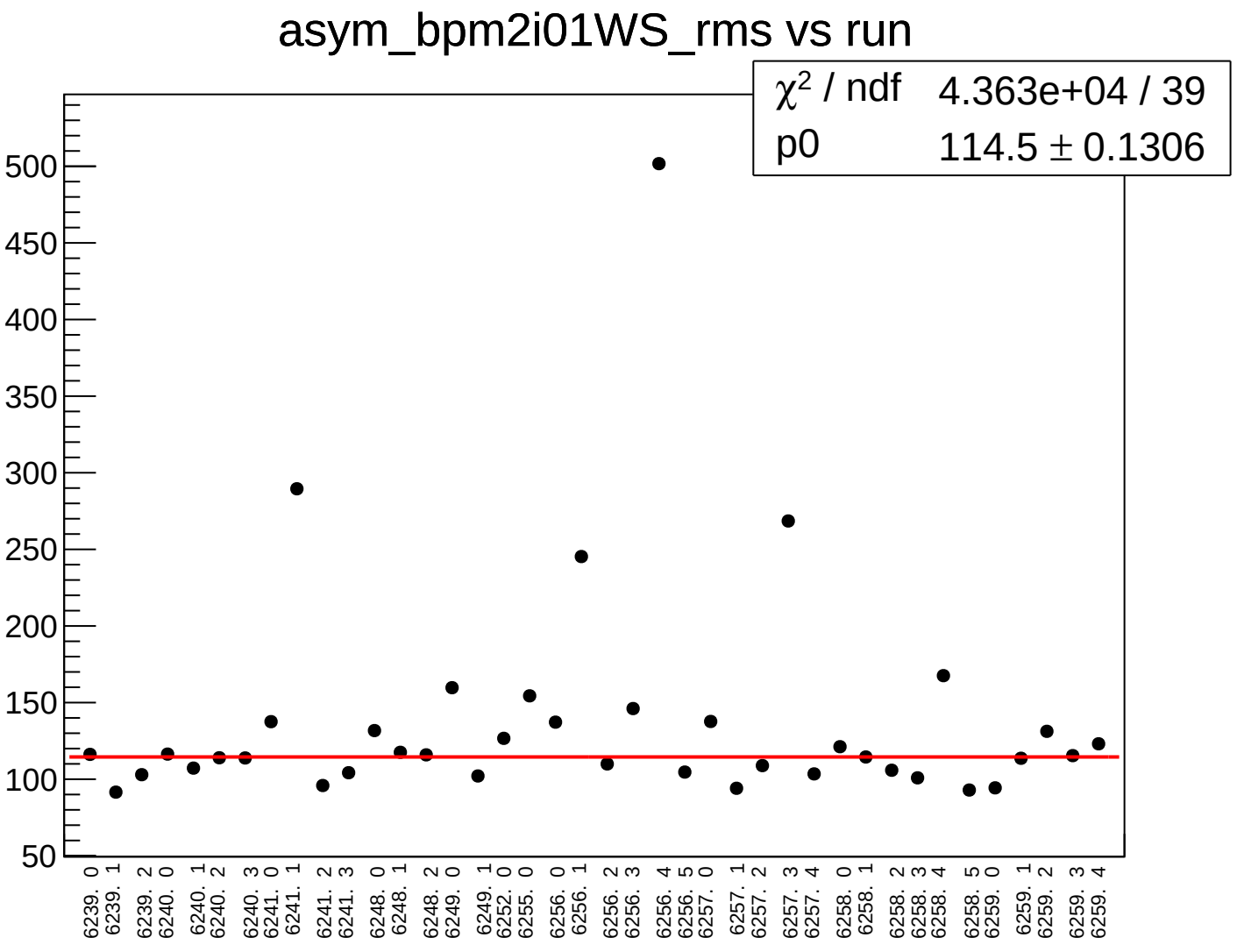

asym_bcm0l02_mean vs run
χ² / ndf 46.27 / 39
p0 1908 ± 344.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 233.2
Std Dev 211.8
2
1
0
−1
−2
−3

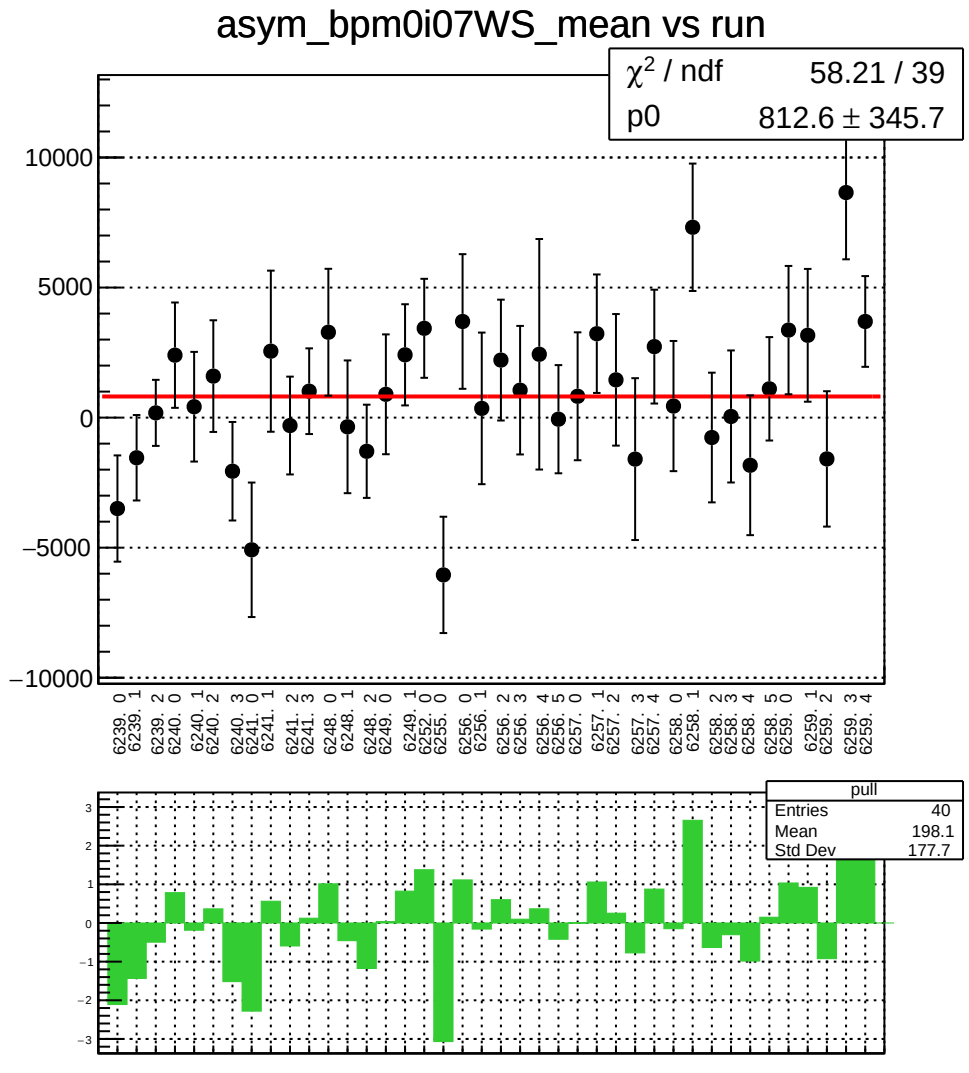

pull1D
Entries 40
Mean 0.01996
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

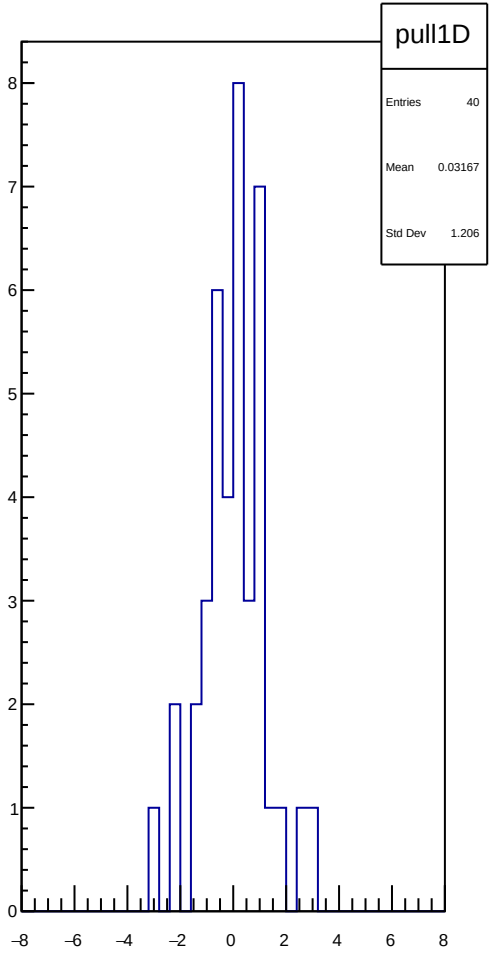

asym_bcm0l02_rms vs run
χ² / ndf 2.733e+04 / 39
p0 216 ± 0.2438
550
500
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

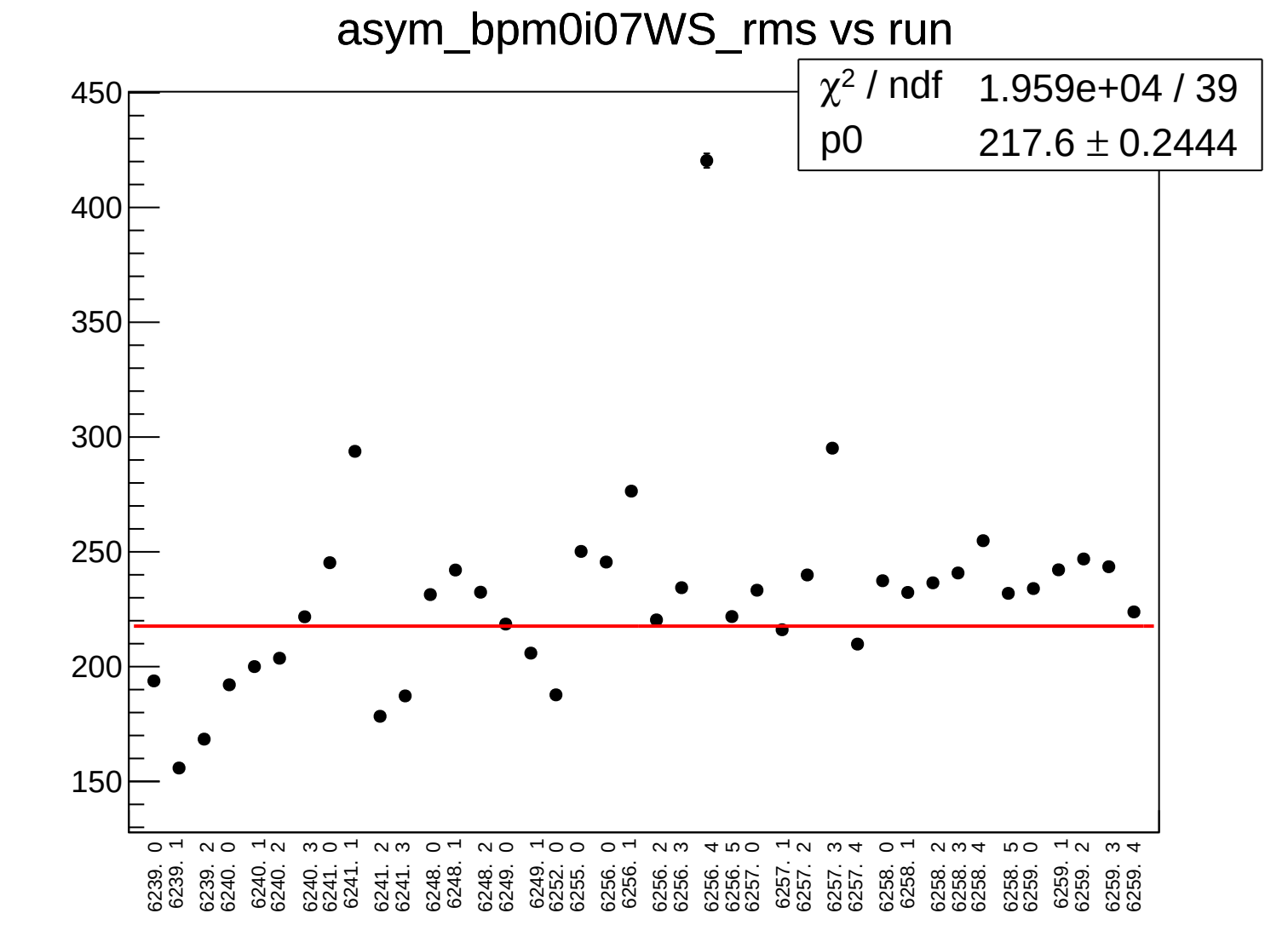

asym_bpm2i01WS_mean vs run
χ² / ndf 2609 / 39
p0 3323 ± 184.7
20000
15000
10000
5000
0
−5000
−10000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −6548
Std Dev 6569
15
10
5
0
−5
−10

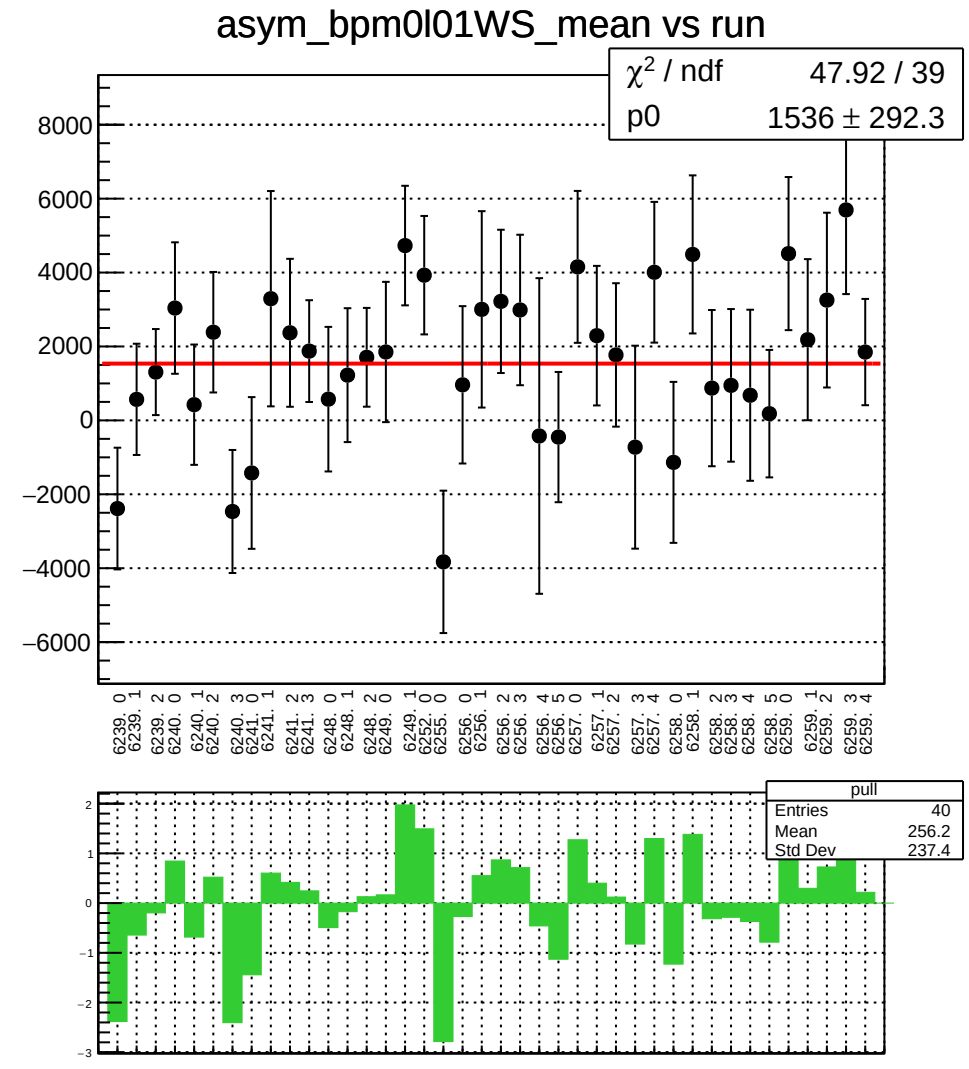

pull1D
Entries 40
Mean −2.988
Std Dev 4.176
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

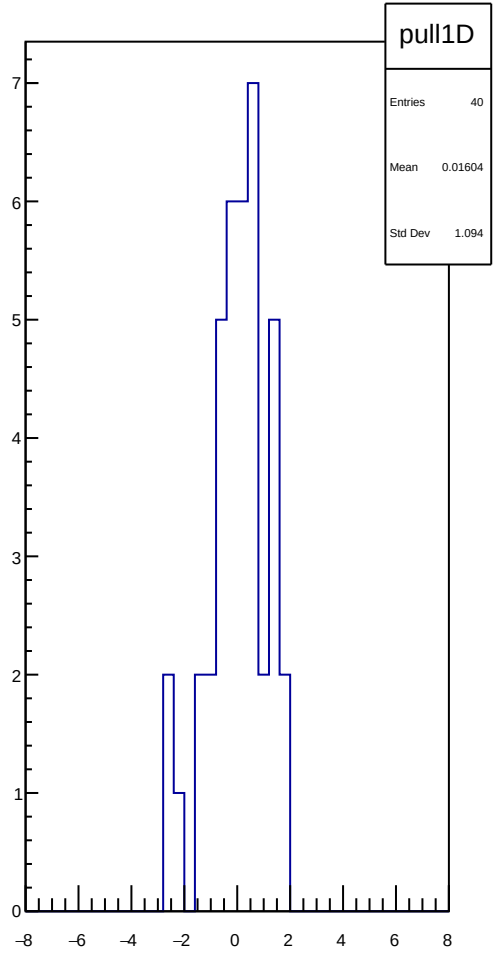

asym_bpm2i01WS_rms vs run
χ² / ndf 4.363e+04 / 39
p0 114.5 ± 0.1306
500
450
400
350
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

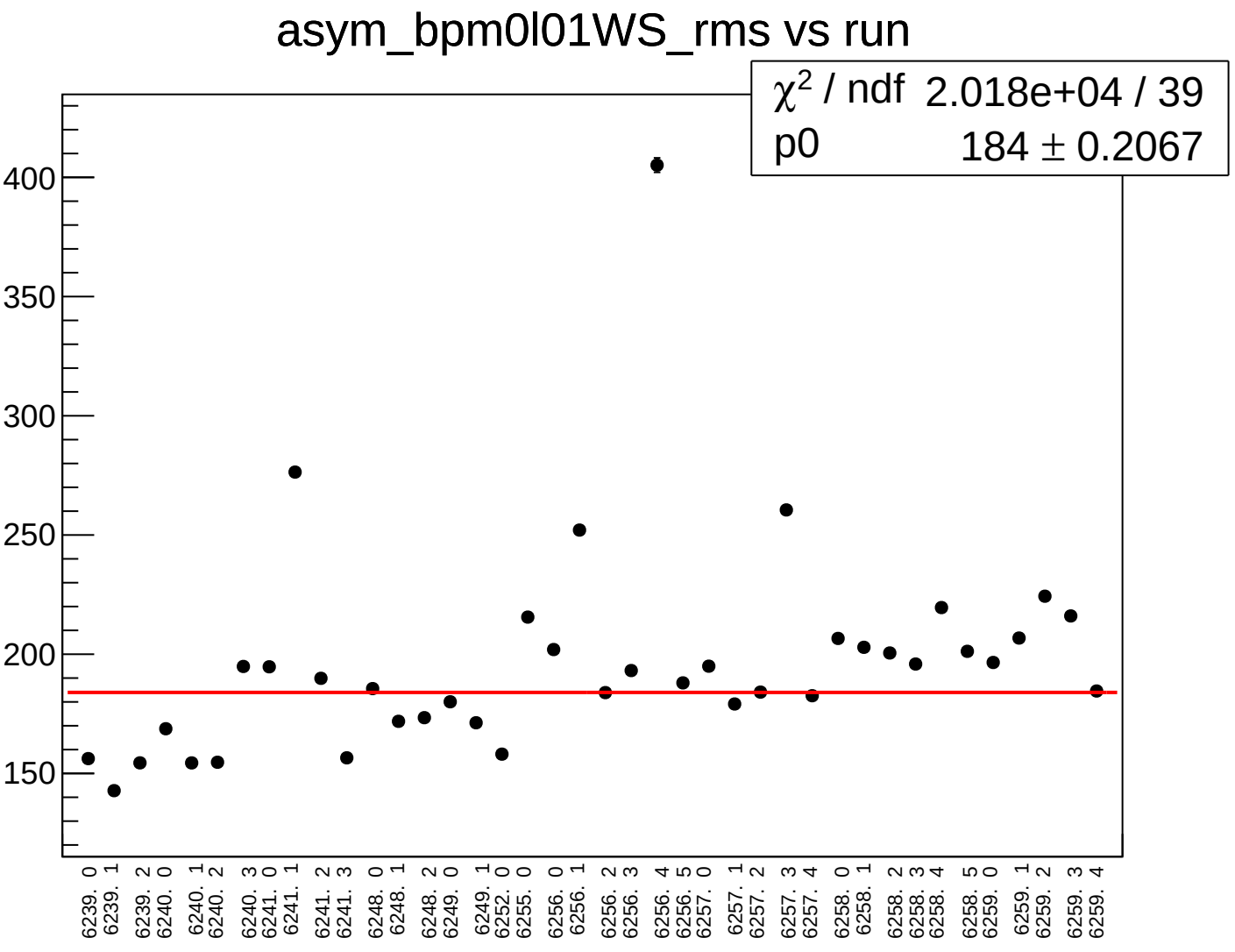

asym_bpm0i07WS_mean vs run
χ² / ndf 58.21 / 39
p0 812.6 ± 345.7
10000
5000
0
−5000
−10000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 198.1
Std Dev 177.7
3
2
1
0
−1
−2
−3

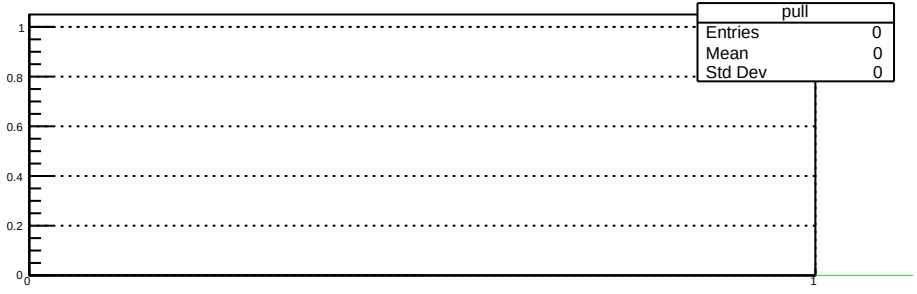

pull1D
Entries 40
Mean 0.03167
Std Dev 1.206
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

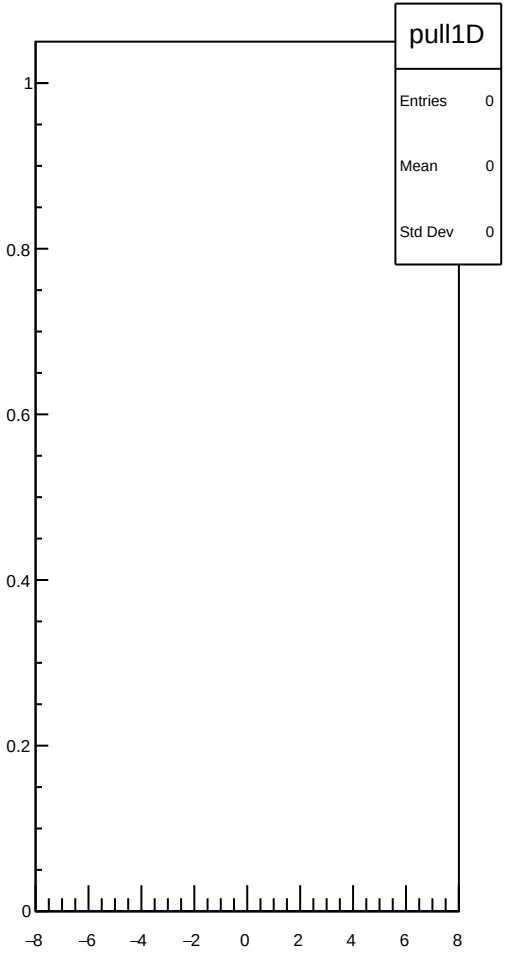

asym_bpm0i07WS_rms vs run
χ² / ndf 1.959e+04 / 39
p0 217.6 ± 0.2444
450
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

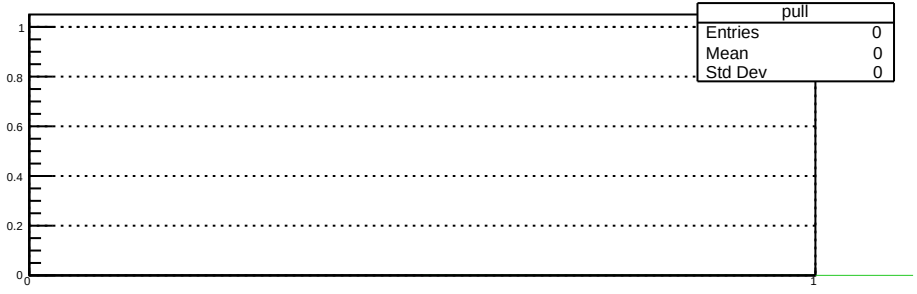

asym_bpm0l01WS_mean vs run
χ² / ndf 47.92 / 39
p0 1536 ± 292.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 256.2
Std Dev 237.4
2
1
0
−1
−2
−3

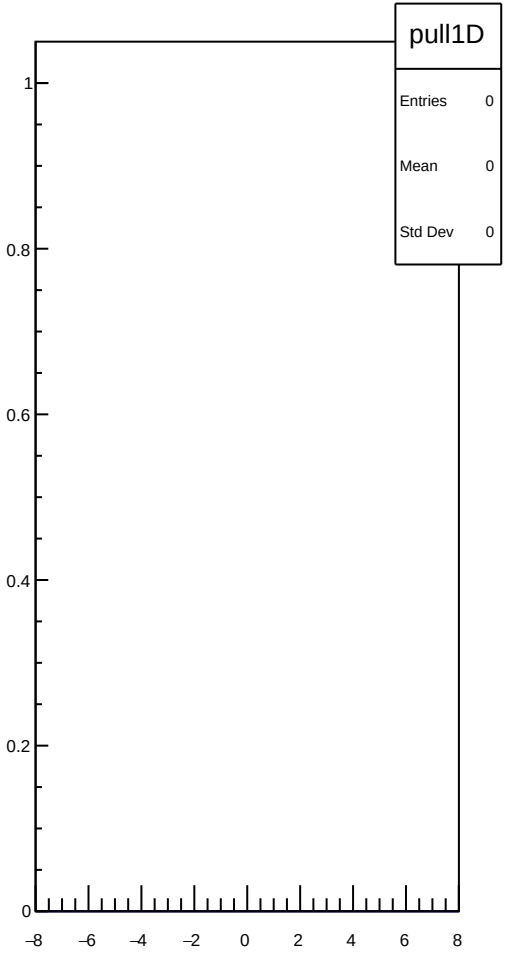

pull1D
Entries 40
Mean 0.01604
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

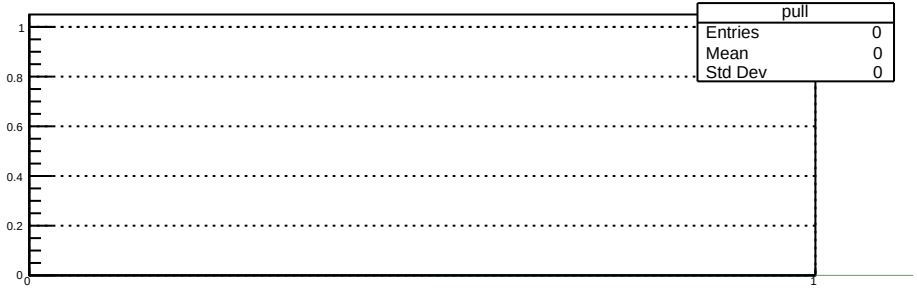

asym_bpm0l01WS_rms vs run
χ² / ndf 2.018e+04 / 39
p0 184 ± 0.2067
400
350
300
250
200
150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

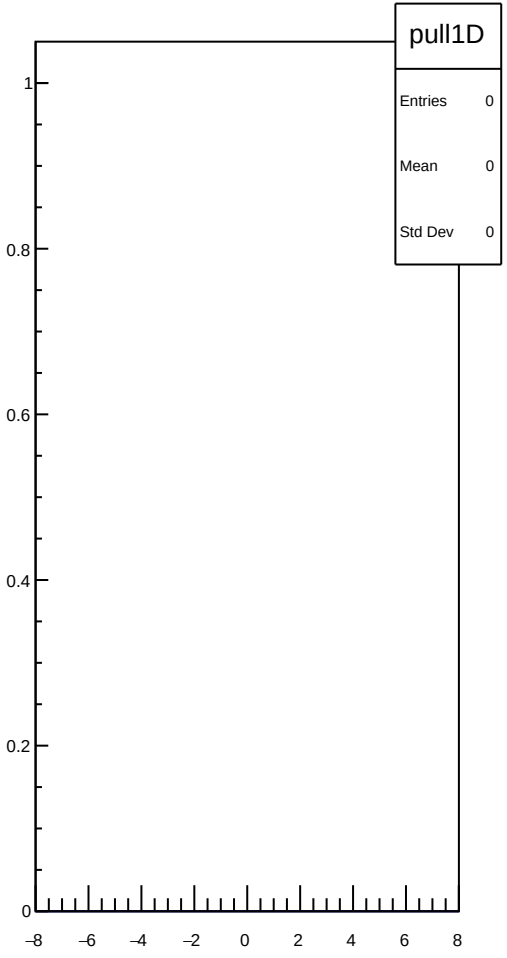

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

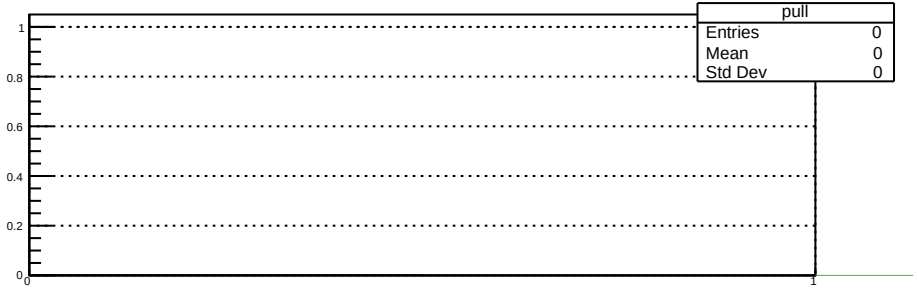

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

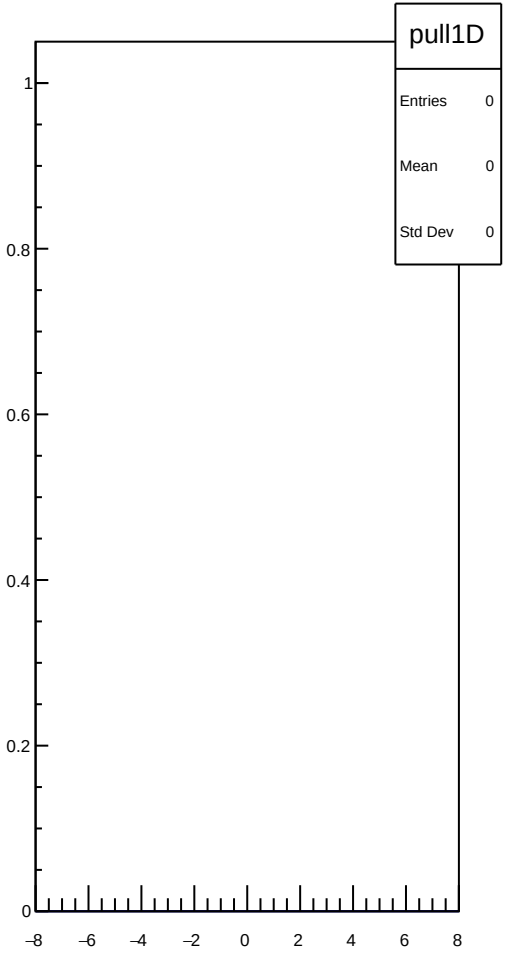

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

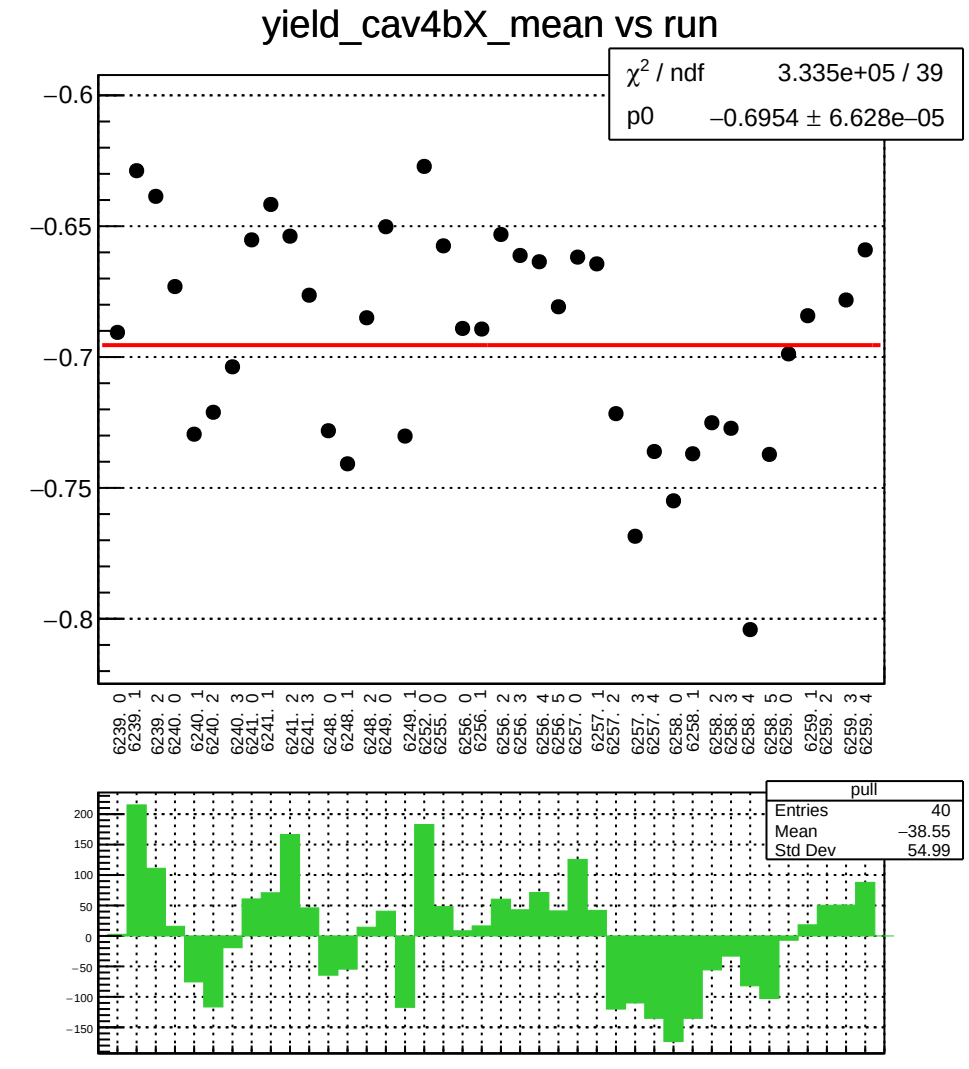

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

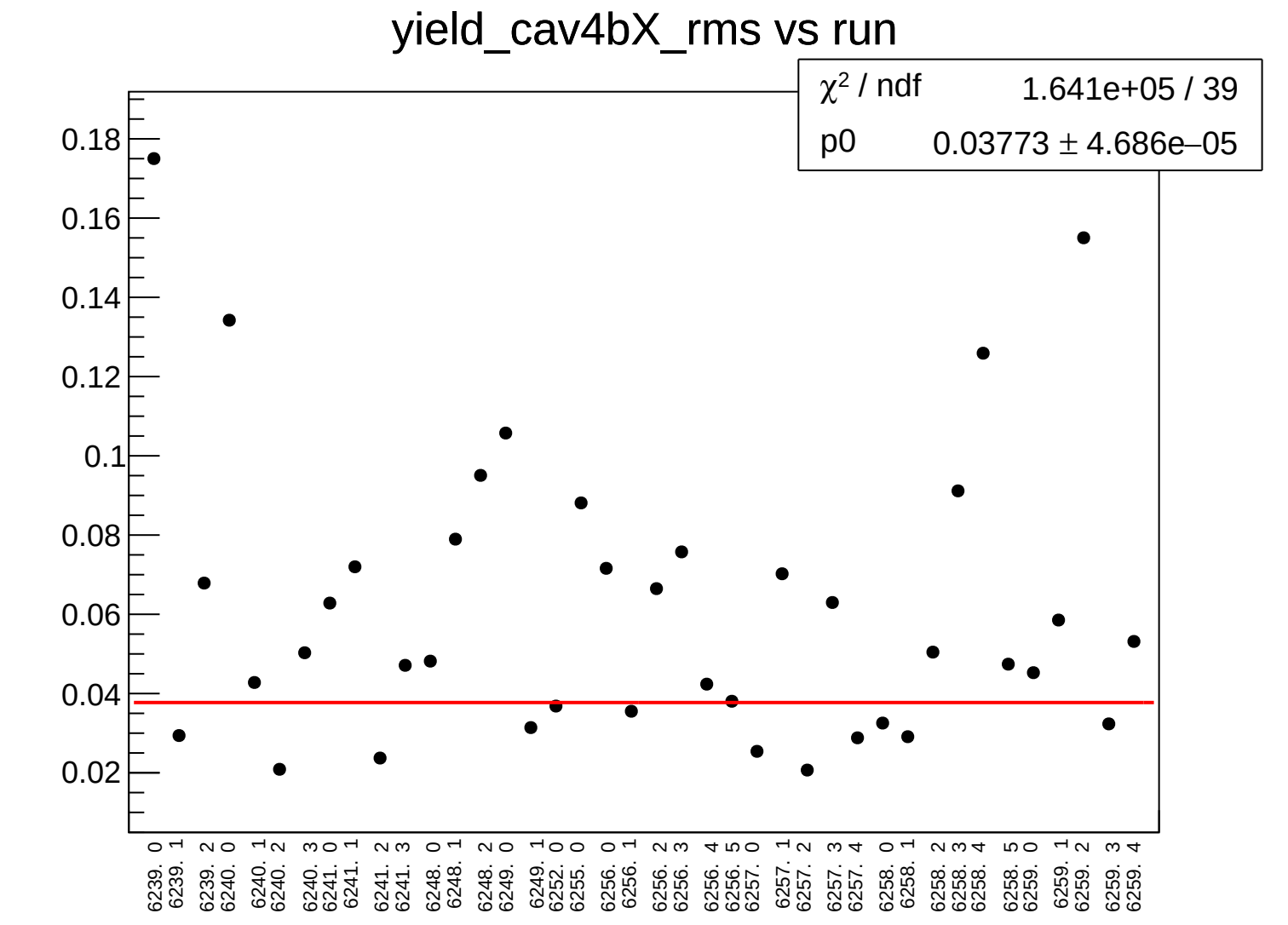

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

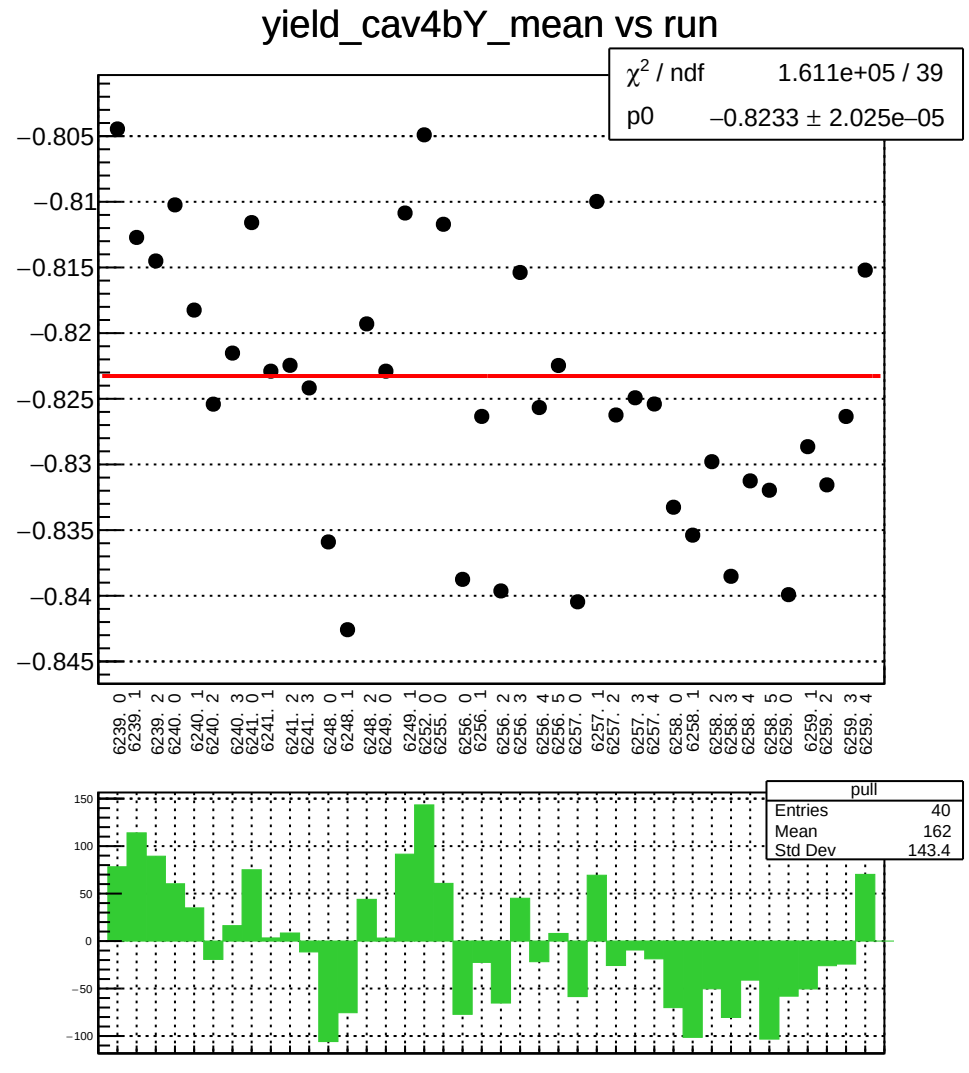

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

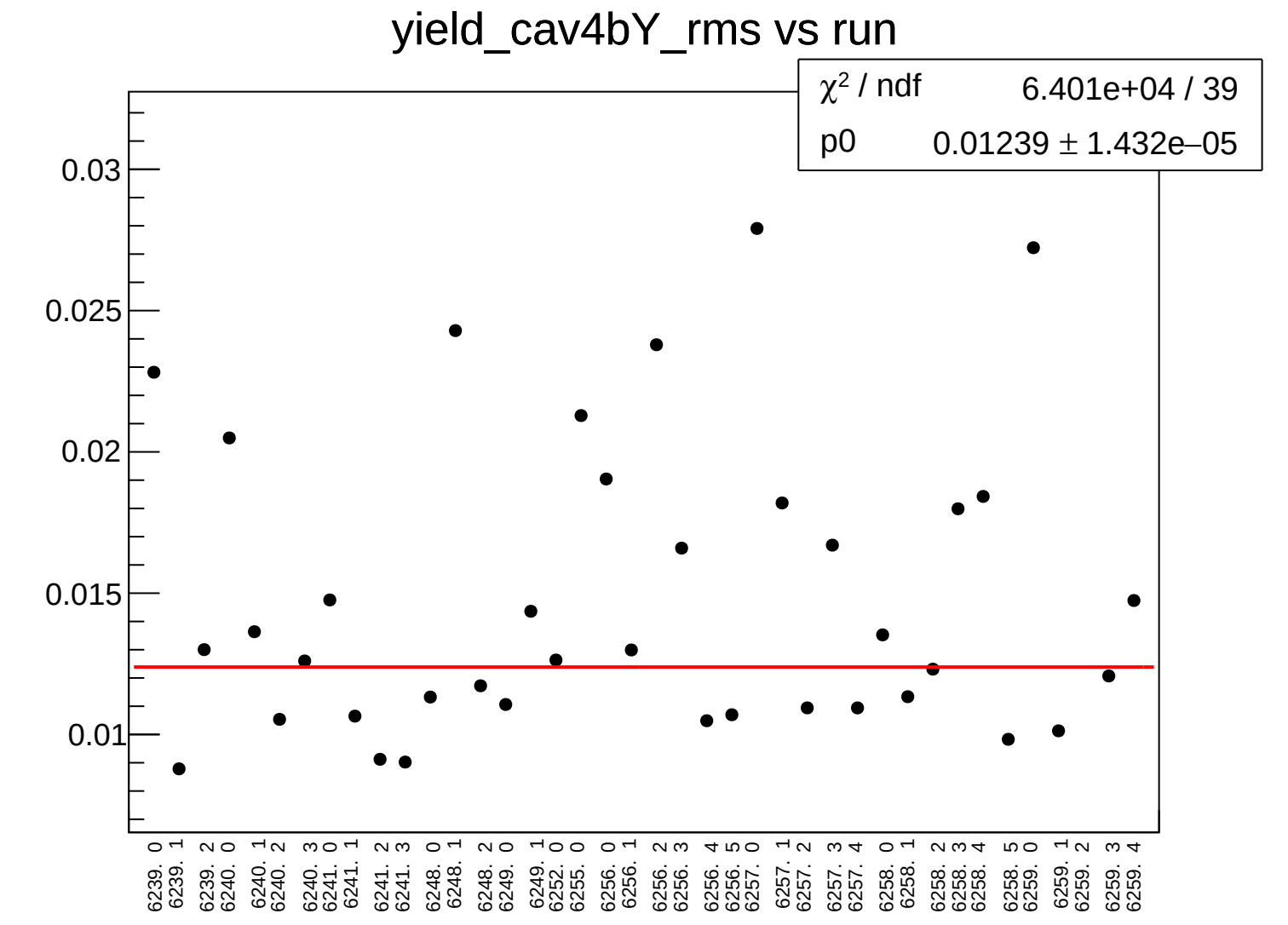

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

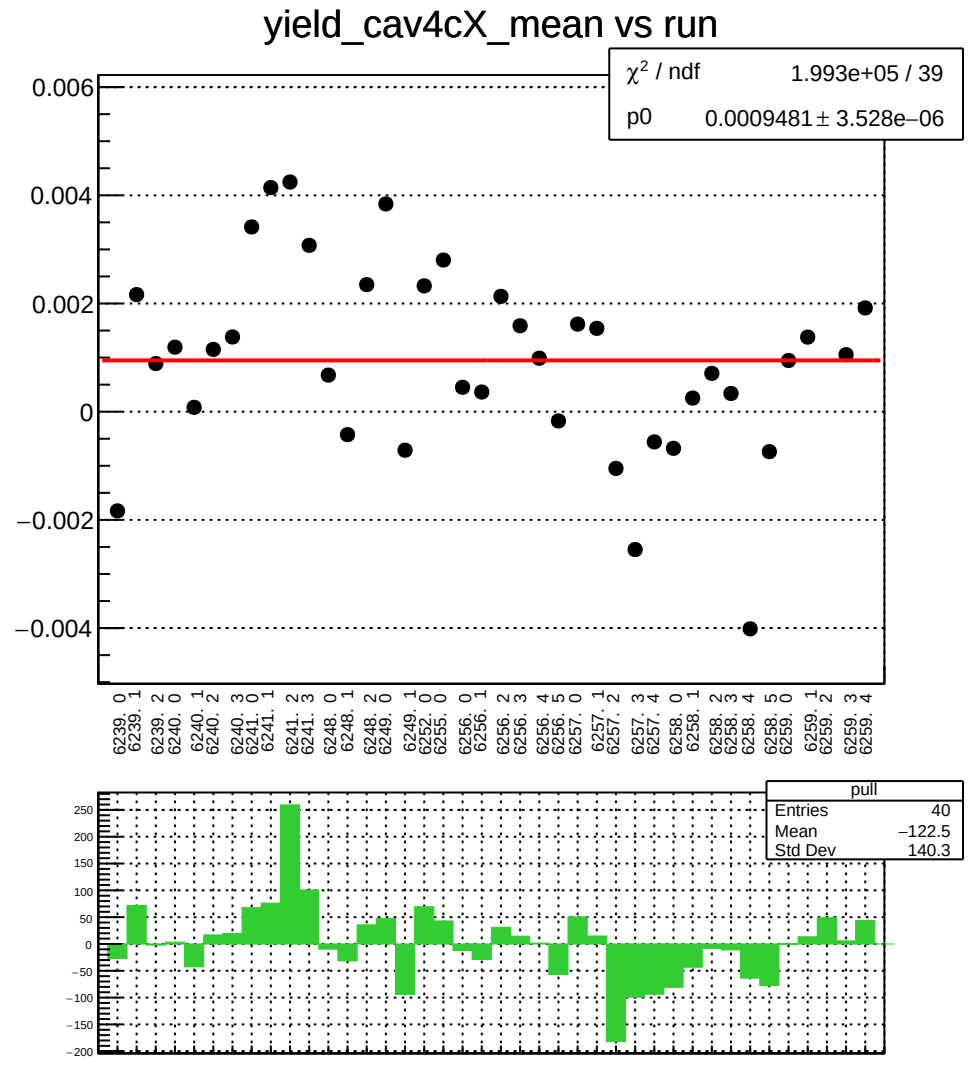

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

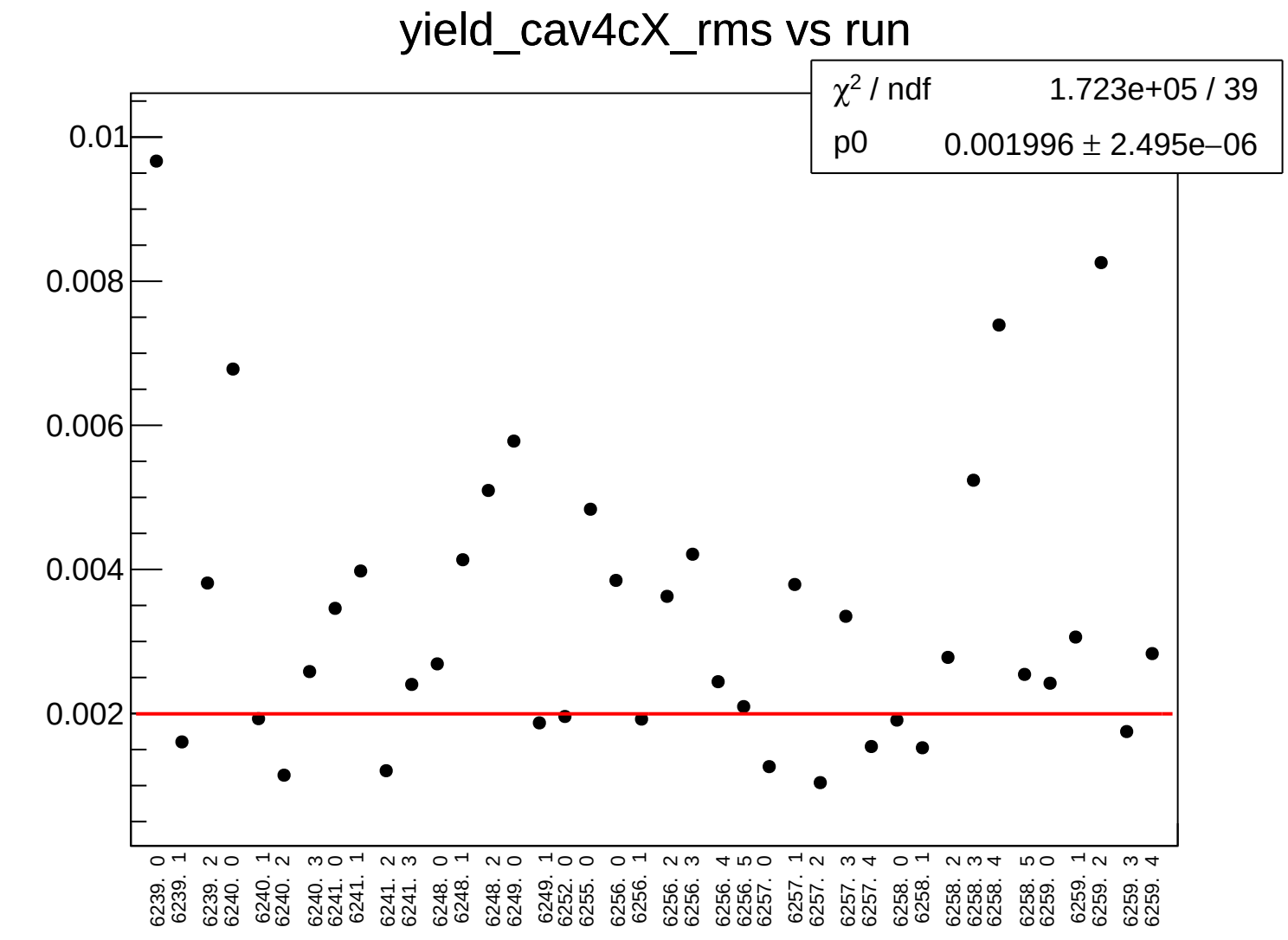

yield_cav4bX_mean vs run
χ² / ndf 3.335e+05 / 39
p0 −0.6954 ± 6.628e−05
−0.6
−0.65
−0.7
−0.75
−0.8
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −38.55
Std Dev 54.99
200
150
100
50
0
−50
−100
−150
pull1D
Entries 40
Mean −2.182
Std Dev 4.822
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

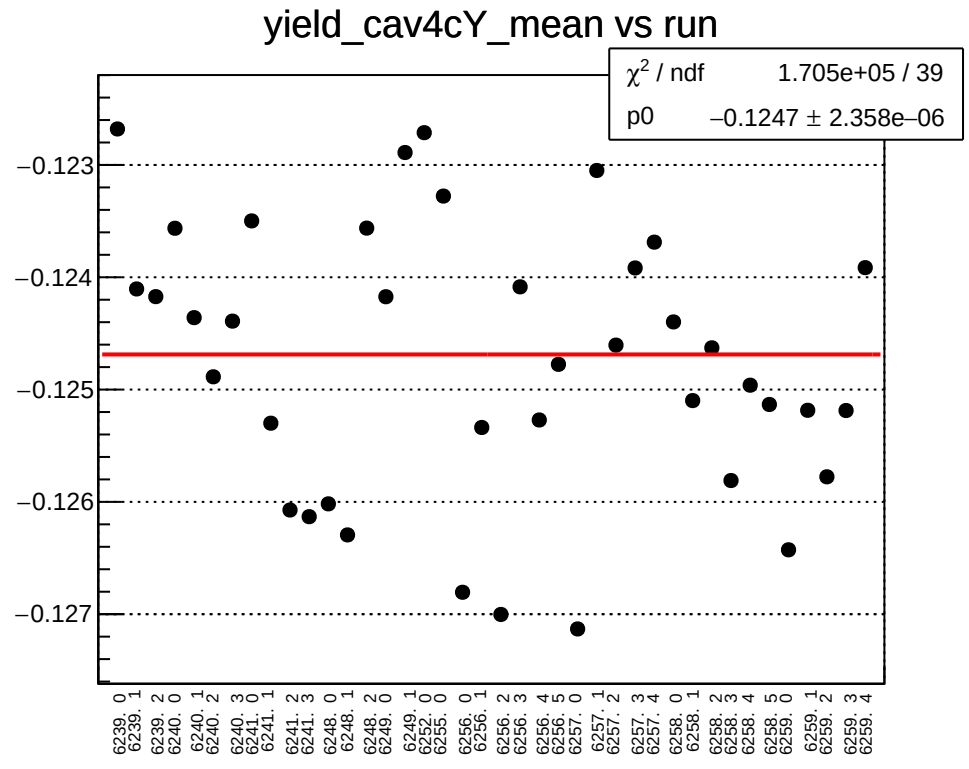

yield_cav4bX_rms vs run
χ² / ndf 1.641e+05 / 39
p0 0.03773 ± 4.686e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

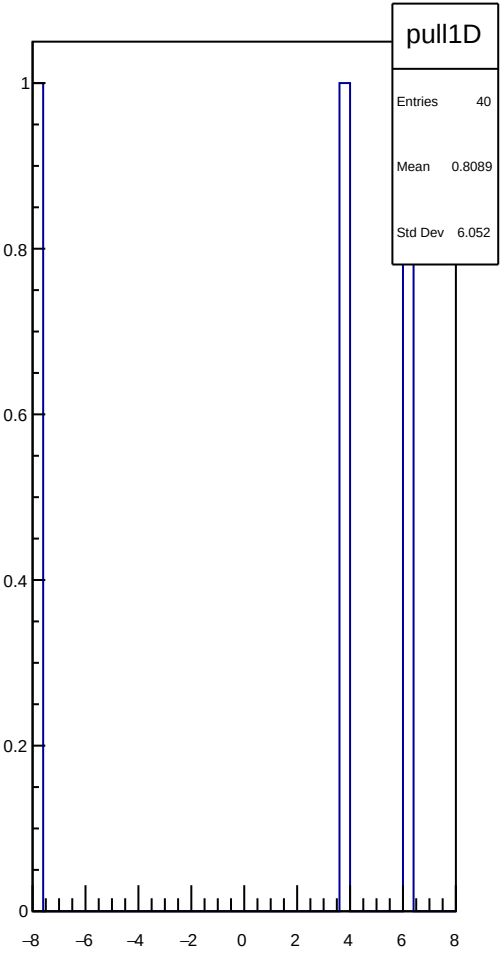

yield_cav4bY_mean vs run
χ² / ndf 1.611e+05 / 39
p0 −0.8233 ± 2.025e−05
−0.805
−0.81
−0.815
−0.82
−0.825
−0.83
−0.835
−0.84
−0.845
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 162
Std Dev 143.4
150
100
50
0
−50
−100
pull1D
Entries 40
Mean 3.222
Std Dev 0.05965
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

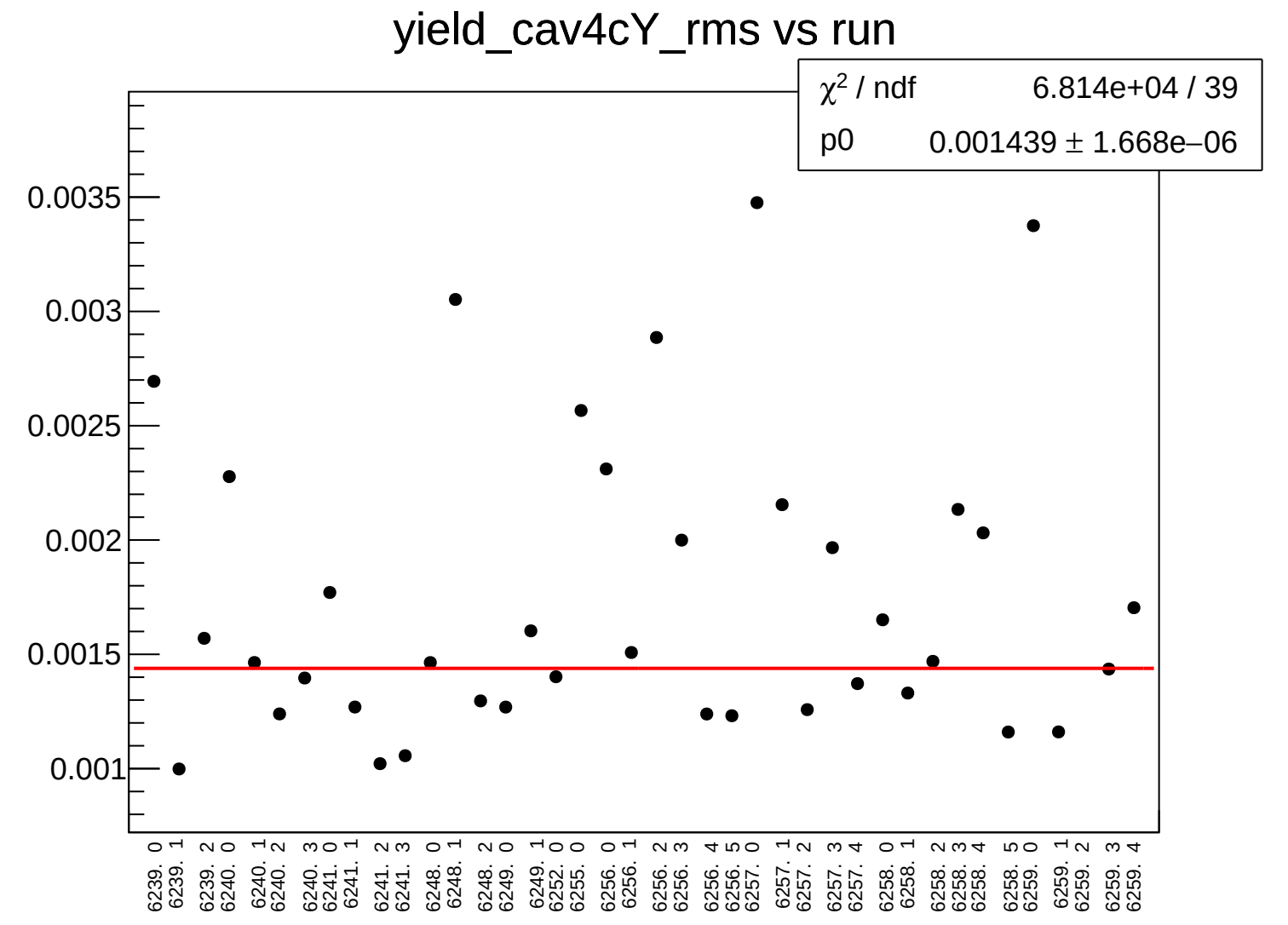

yield_cav4bY_rms vs run
χ² / ndf 6.401e+04 / 39
p0 0.01239 ± 1.432e–05
0.03
0.025
0.02
0.015
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

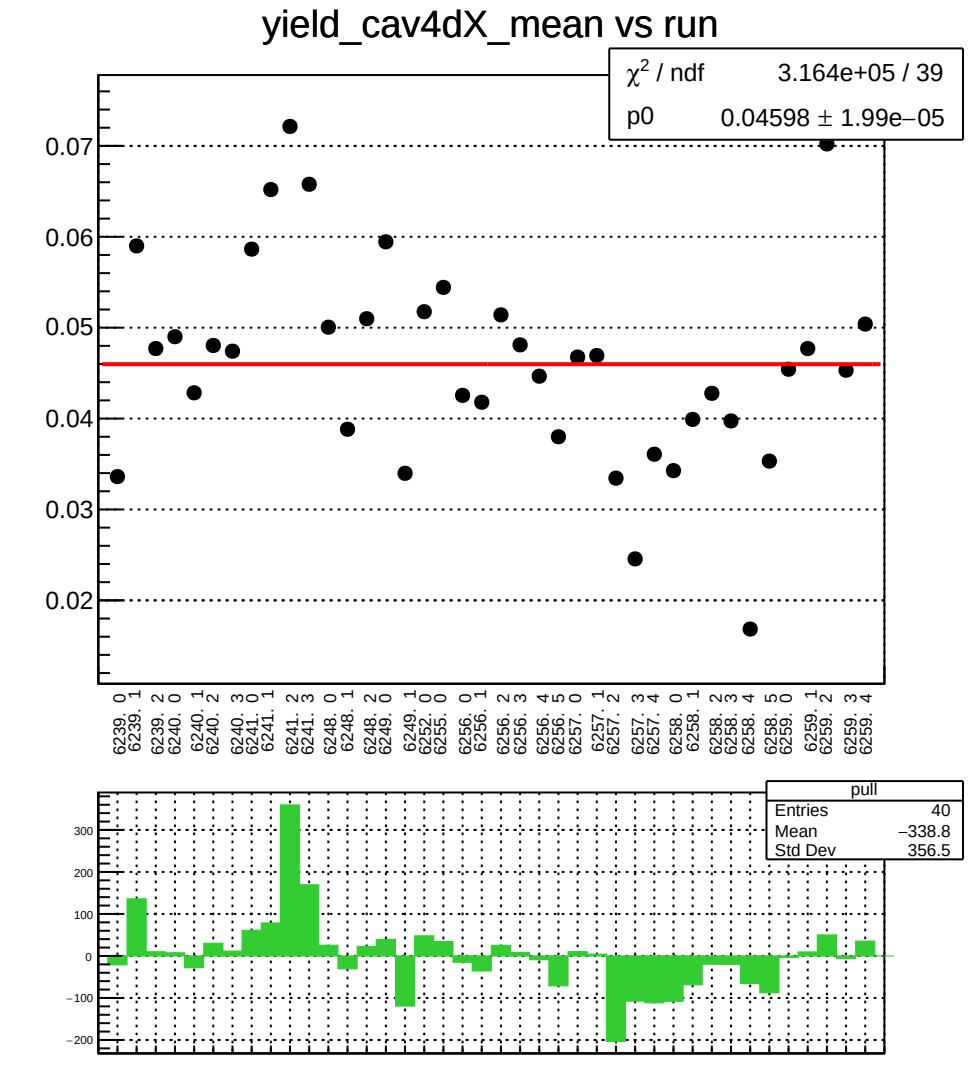

yield_cav4cX_mean vs run
χ² / ndf 1.993e+05 / 39
p0 0.0009481 ± 3.528e−06
0.006
0.004
0.002
0
−0.002
−0.004
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −122.5
Std Dev 140.3
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 40
Mean 1.727
Std Dev 2.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

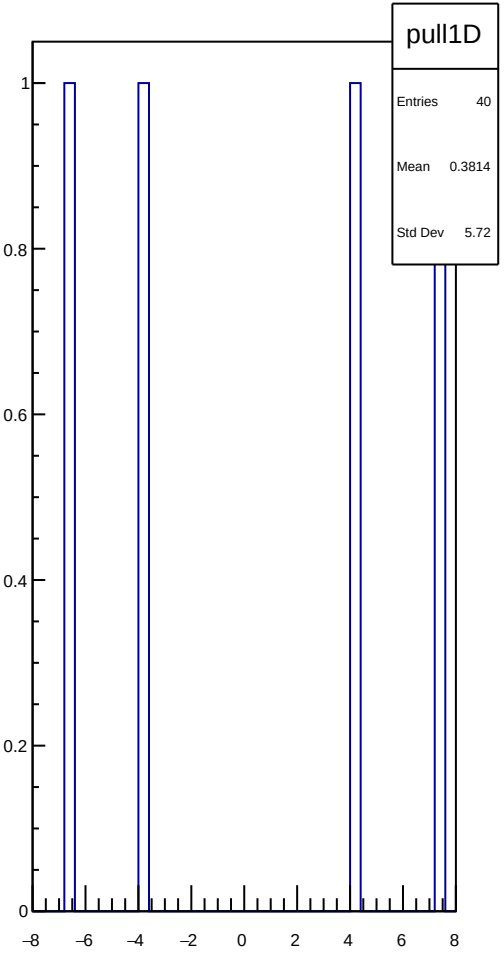

yield_cav4cX_rms vs run
χ² / ndf 1.723e+05 / 39
p0 0.001996 ± 2.495e−06
0.01
0.008
0.006
0.004
0.002
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

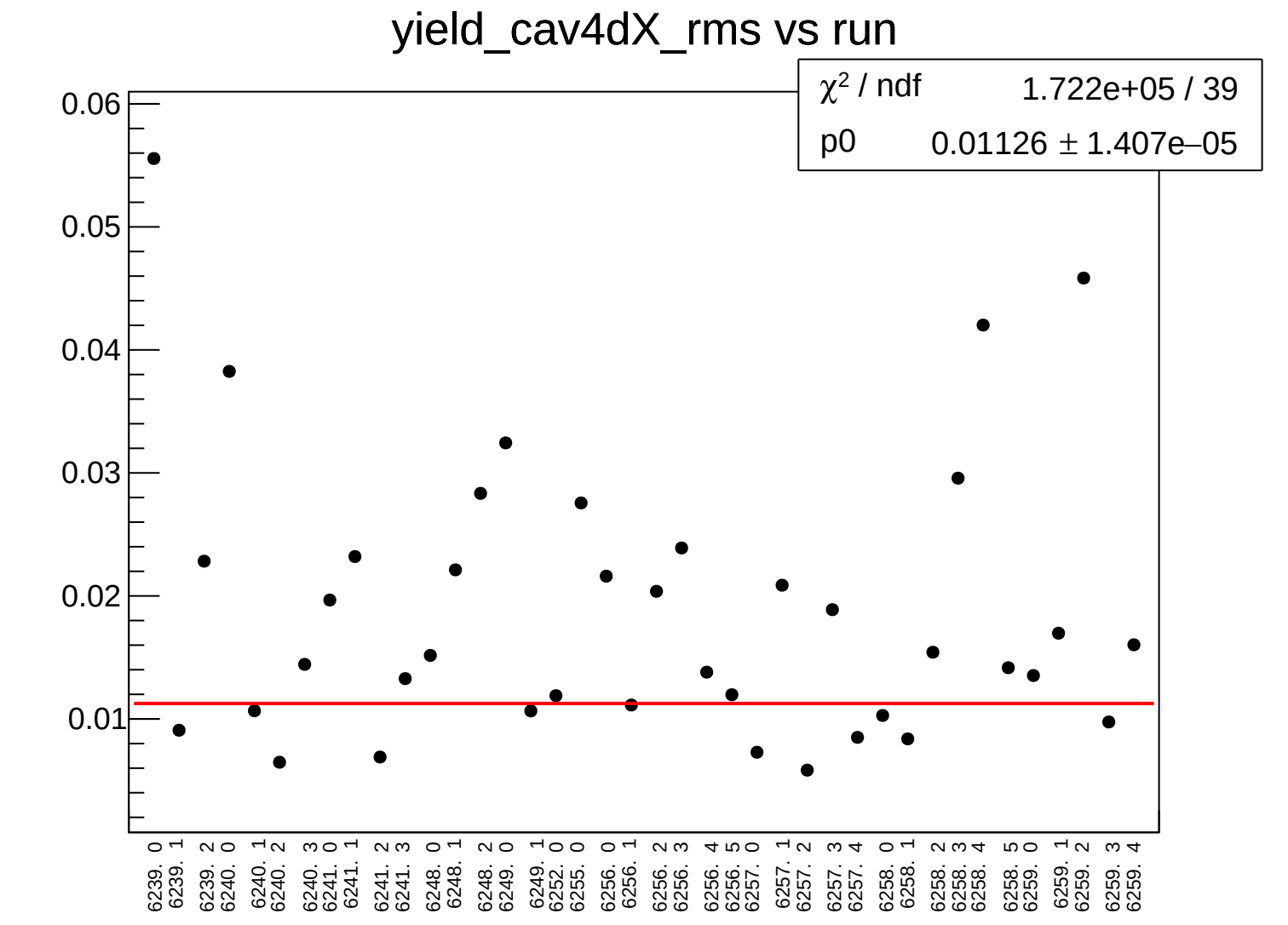

yield_cav4cY_mean vs run
χ² / ndf 1.705e+05 / 39
p0 −0.1247 ± 2.358e−06
−0.123
−0.124
−0.125
−0.126
−0.127
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1736
Std Dev 1718
150
100
50
0
−50
−100
−150

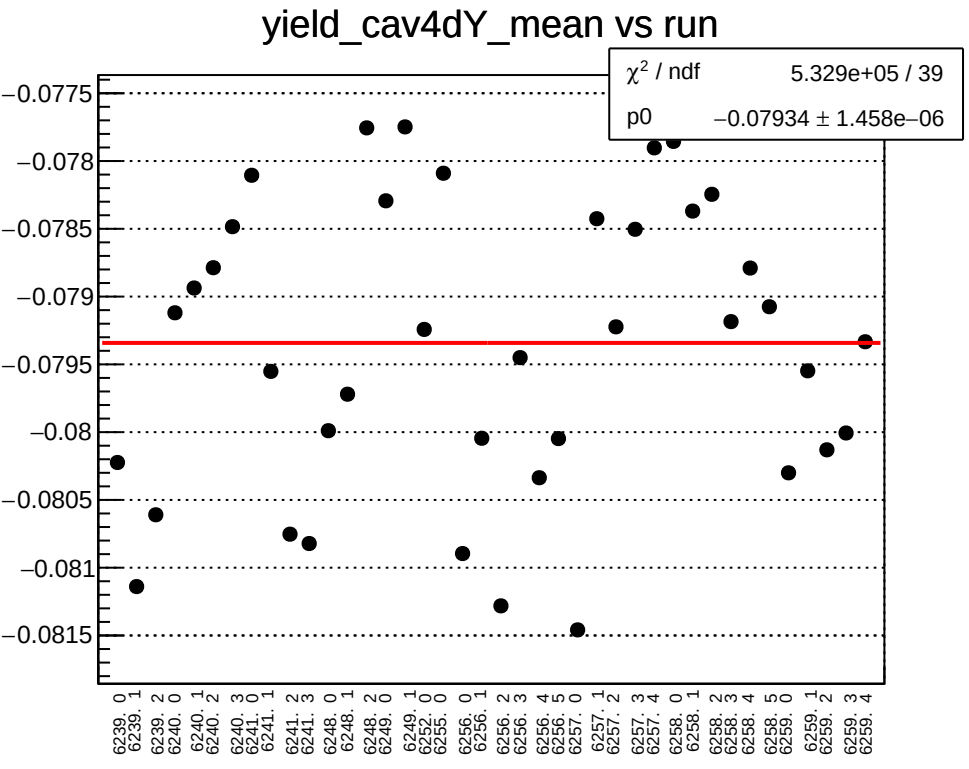

pull1D
Entries 40
Mean 0.8089
Std Dev 6.052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

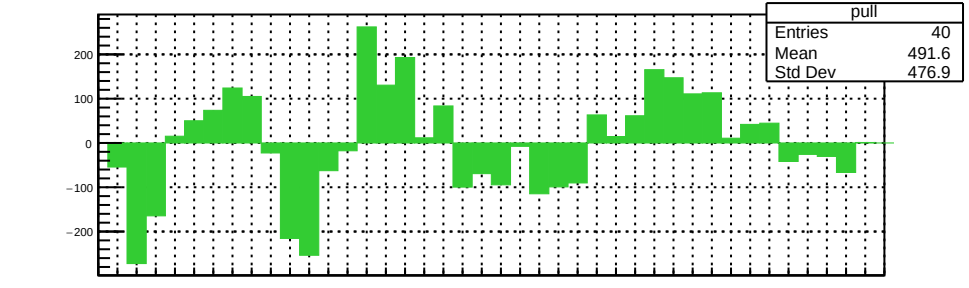

yield_cav4cY_rms vs run
χ² / ndf 6.814e+04 / 39
p0 0.001439 ± 1.668e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

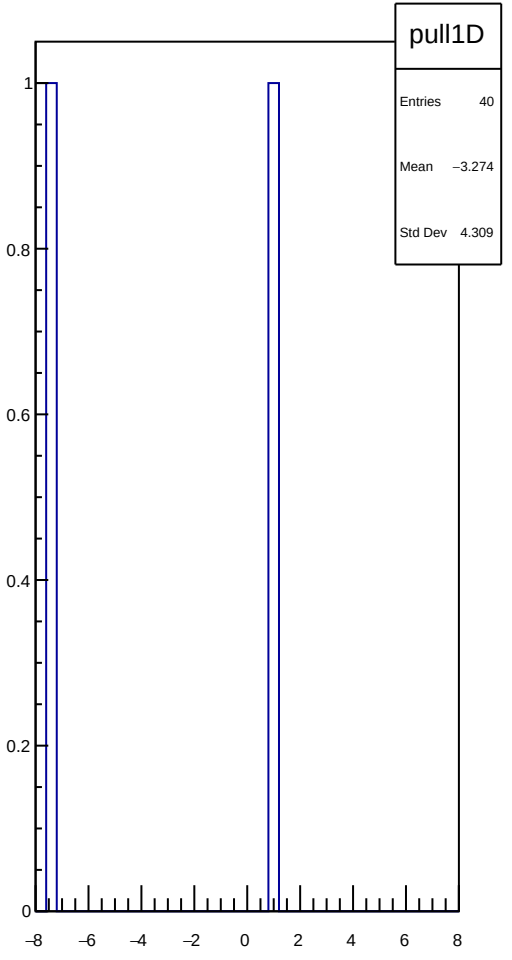

yield_cav4dX_mean vs run
χ² / ndf 3.164e+05 / 39
p0 0.04598 ± 1.99e−05
0.07
0.06
0.05
0.04
0.03
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −338.8
Std Dev 356.5
300
200
100
0
−100
−200

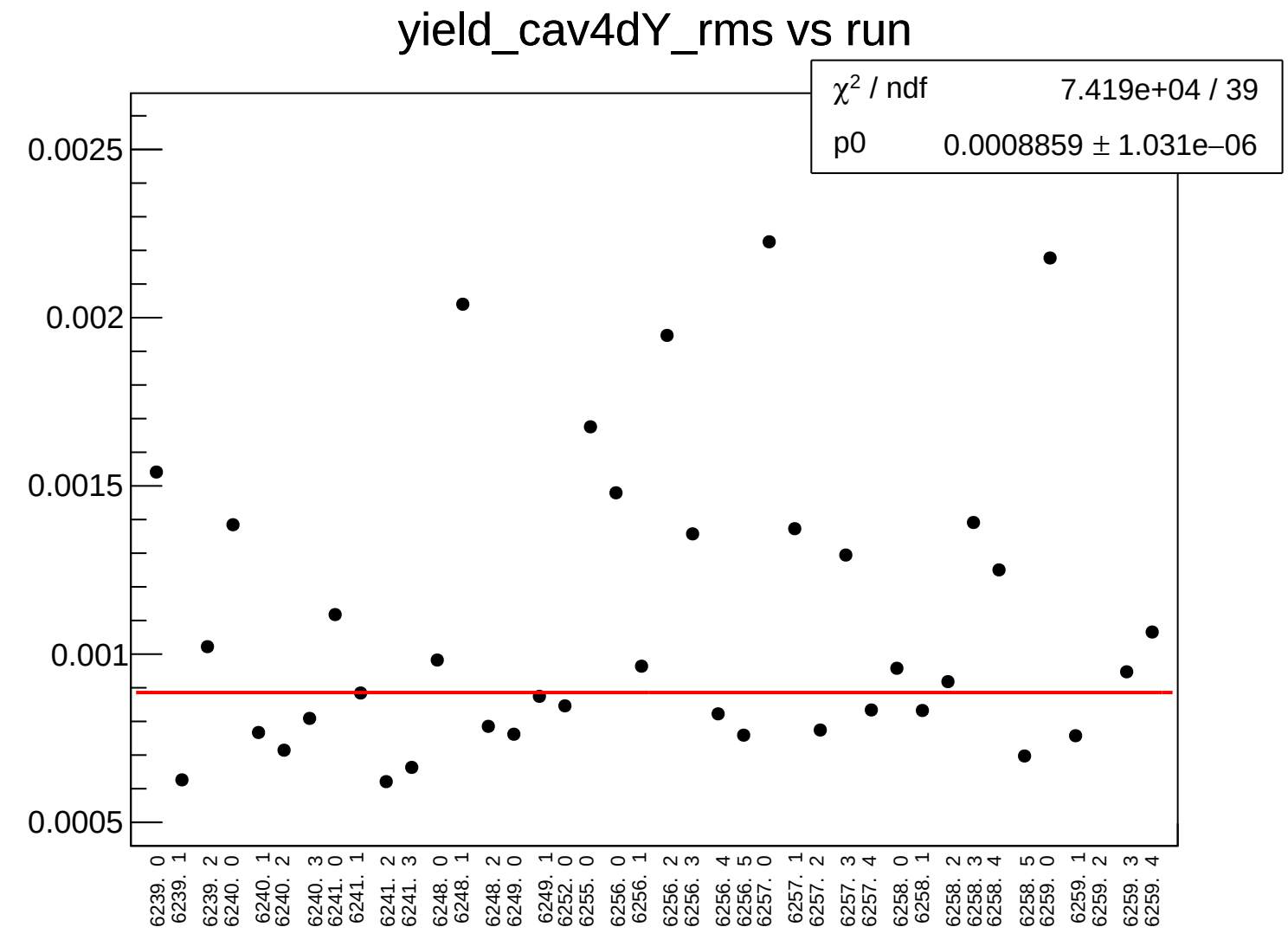

pull1D
Entries 40
Mean 0.3814
Std Dev 5.72
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

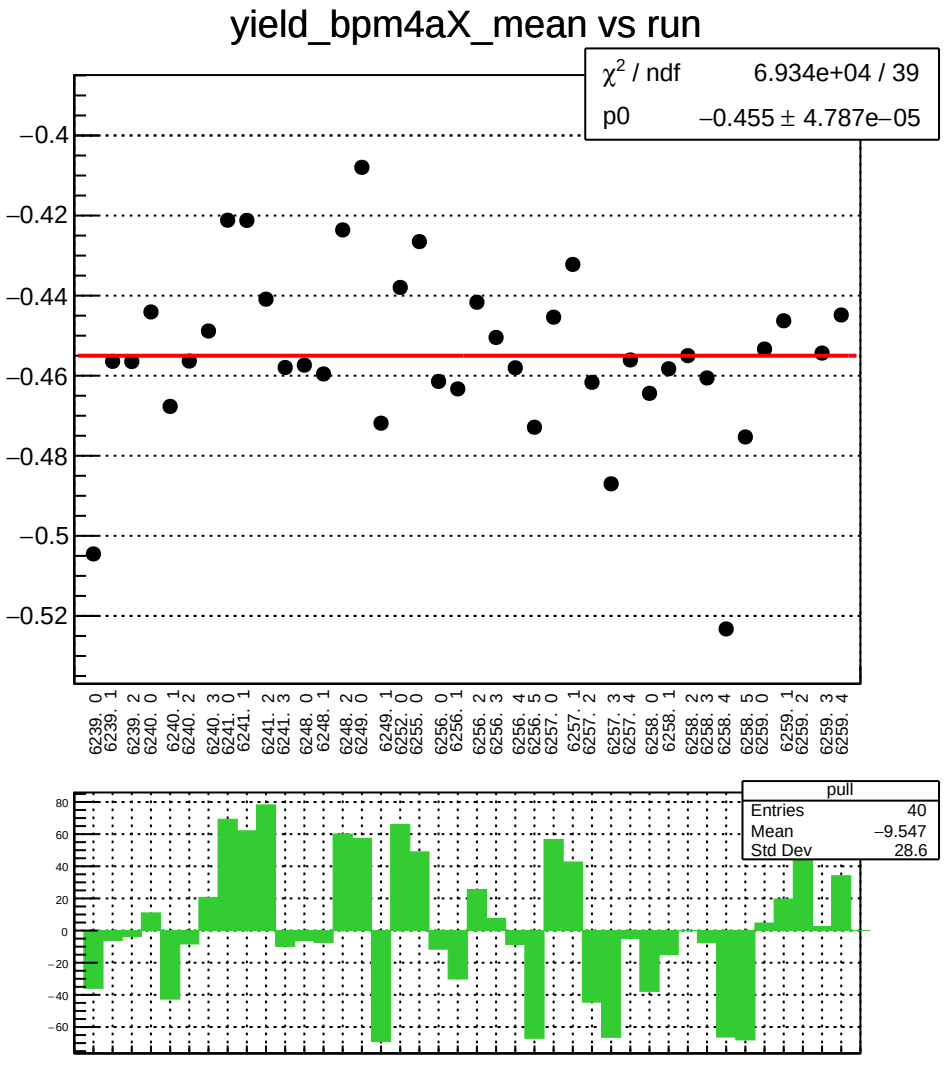

yield_cav4dX_rms vs run
χ² / ndf 1.722e+05 / 39
p0 0.01126 ± 1.407e–05
0.06
0.05
0.04
0.03
0.02
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

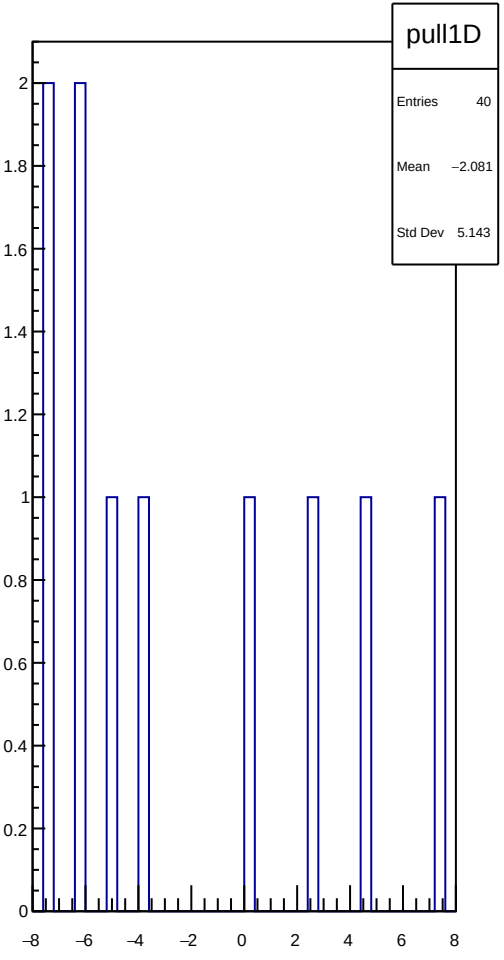

yield_cav4dY_mean vs run
χ² / ndf 5.329e+05 / 39
p0 −0.07934 ± 1.458e−06
−0.0775
−0.078
−0.0785
−0.079
−0.0795
−0.08
−0.0805
−0.081
−0.0815
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

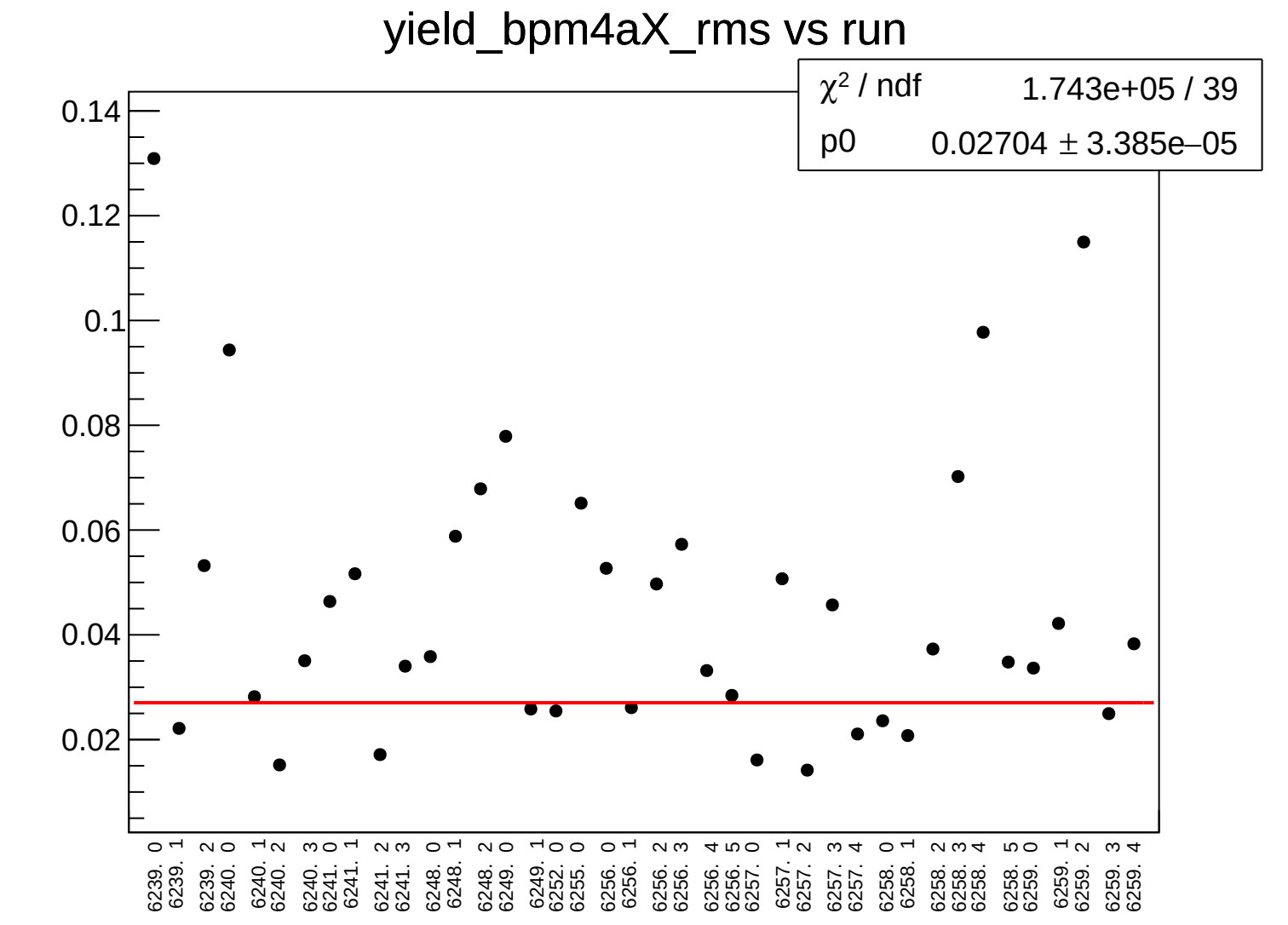

pull
Entries 40
Mean 491.6
Std Dev 476.9
200
100
0
−100
−200

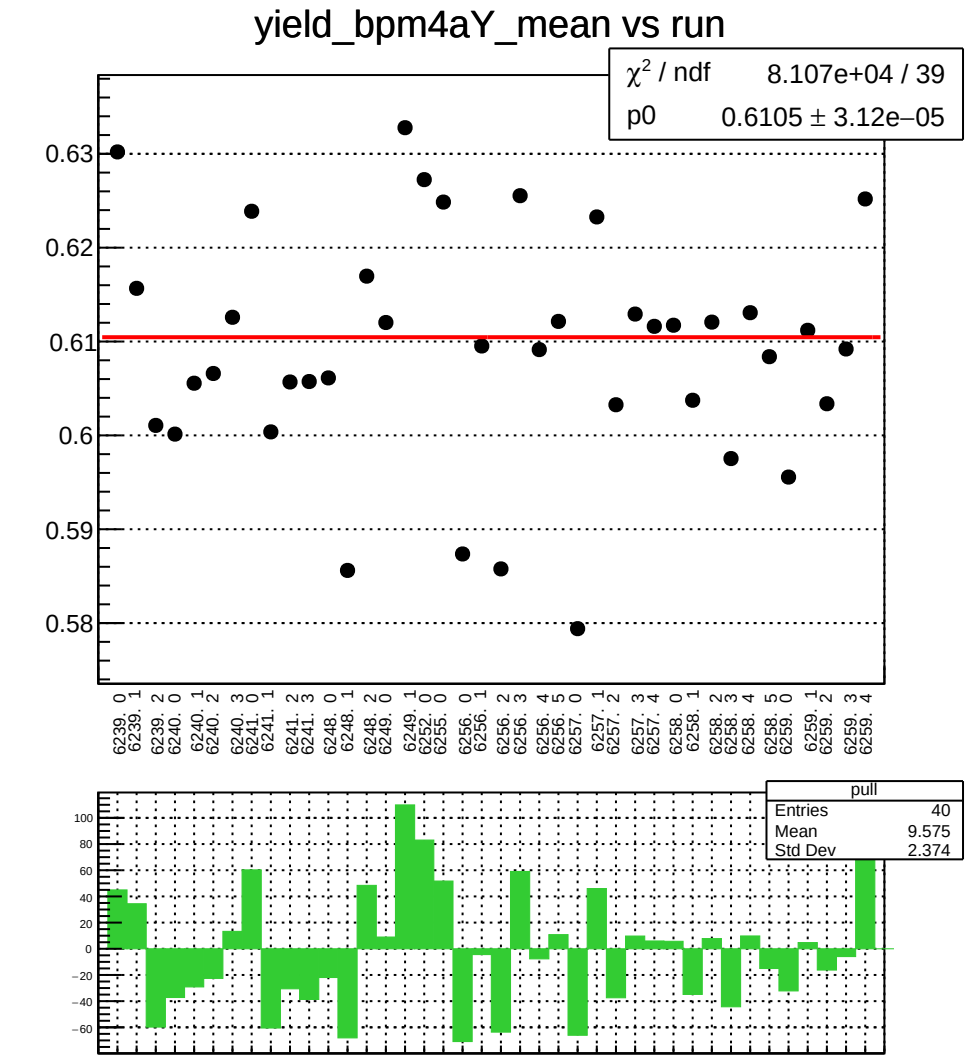

pull1D
Entries 40
Mean −3.274
Std Dev 4.309
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

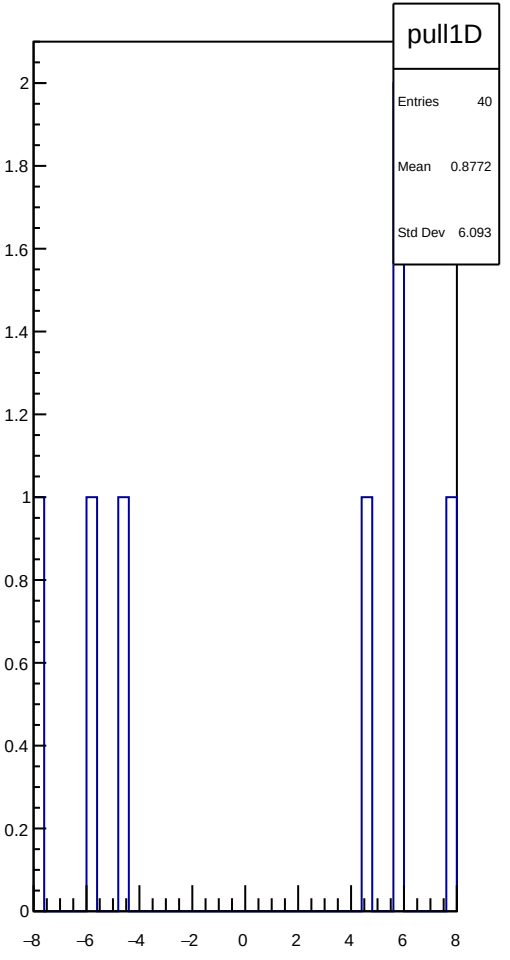

yield_cav4dY_rms vs run
χ² / ndf 7.419e+04 / 39
p0 0.0008859 ± 1.031e−06
0.0025
0.002
0.0015
0.001
0.0005
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

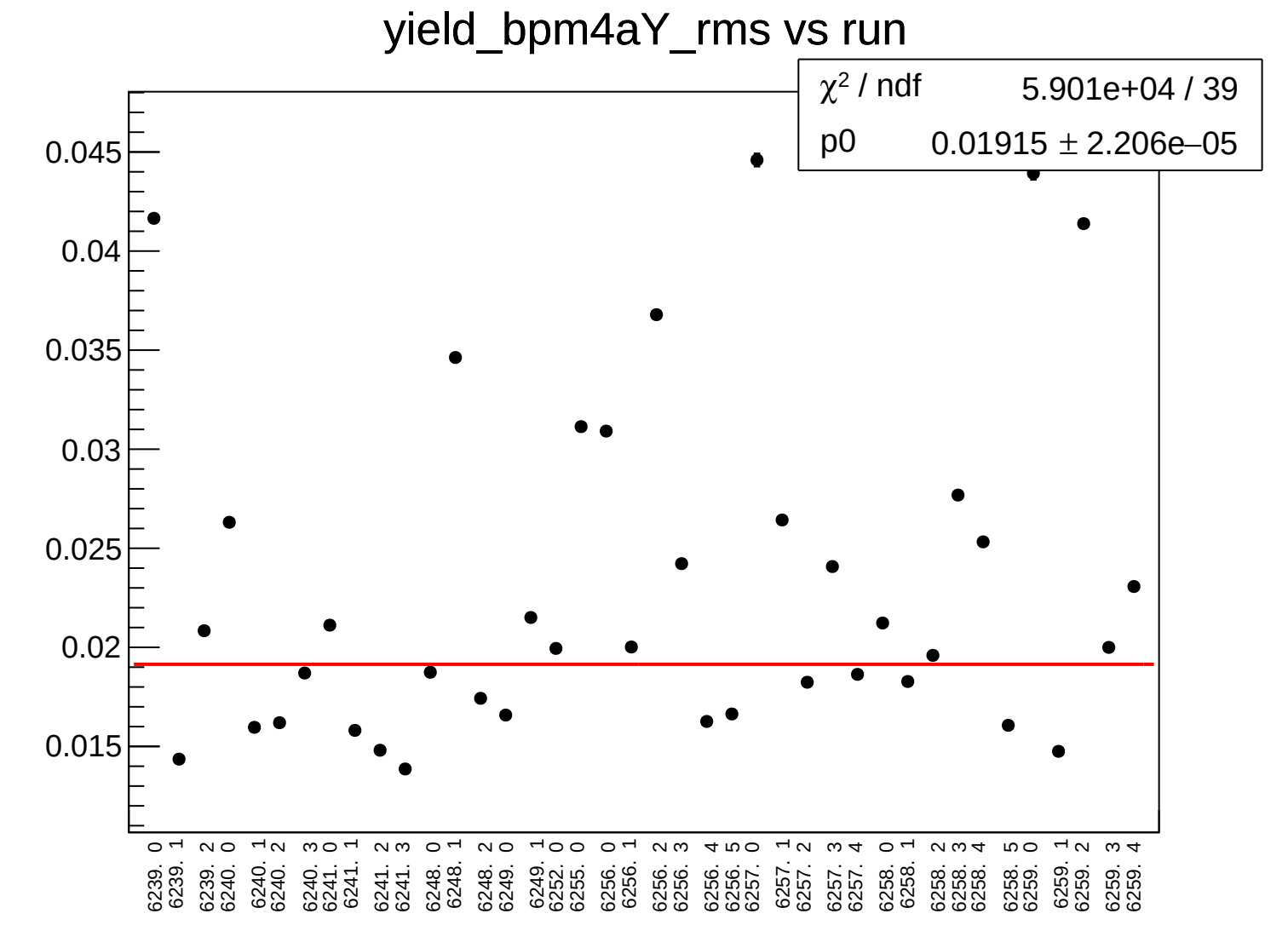

yield_bpm4aX_mean vs run
χ² / ndf 6.934e+04 / 39
p0 −0.455 ± 4.787e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −9.547
Std Dev 28.6
80
60
40
20
0
−20
−40
−60

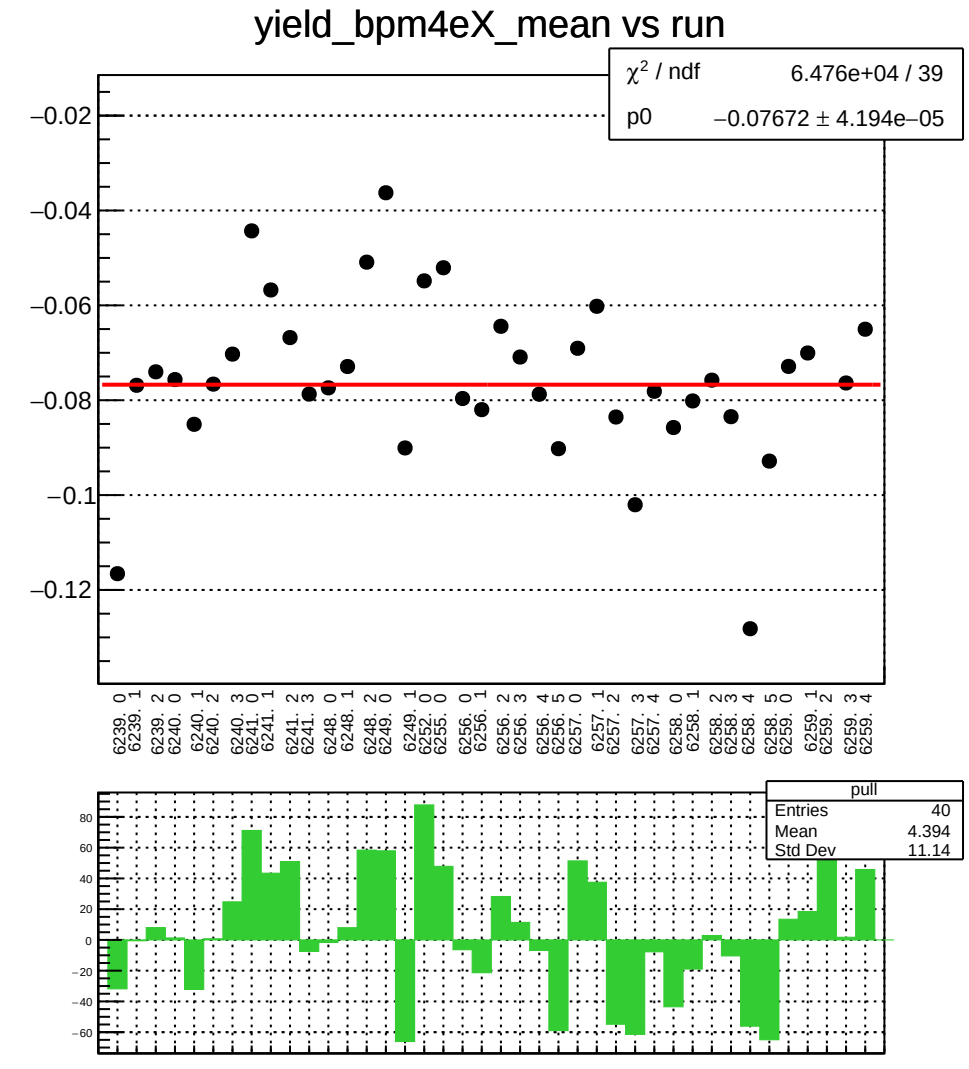

pull1D
Entries 40
Mean −2.081
Std Dev 5.143
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

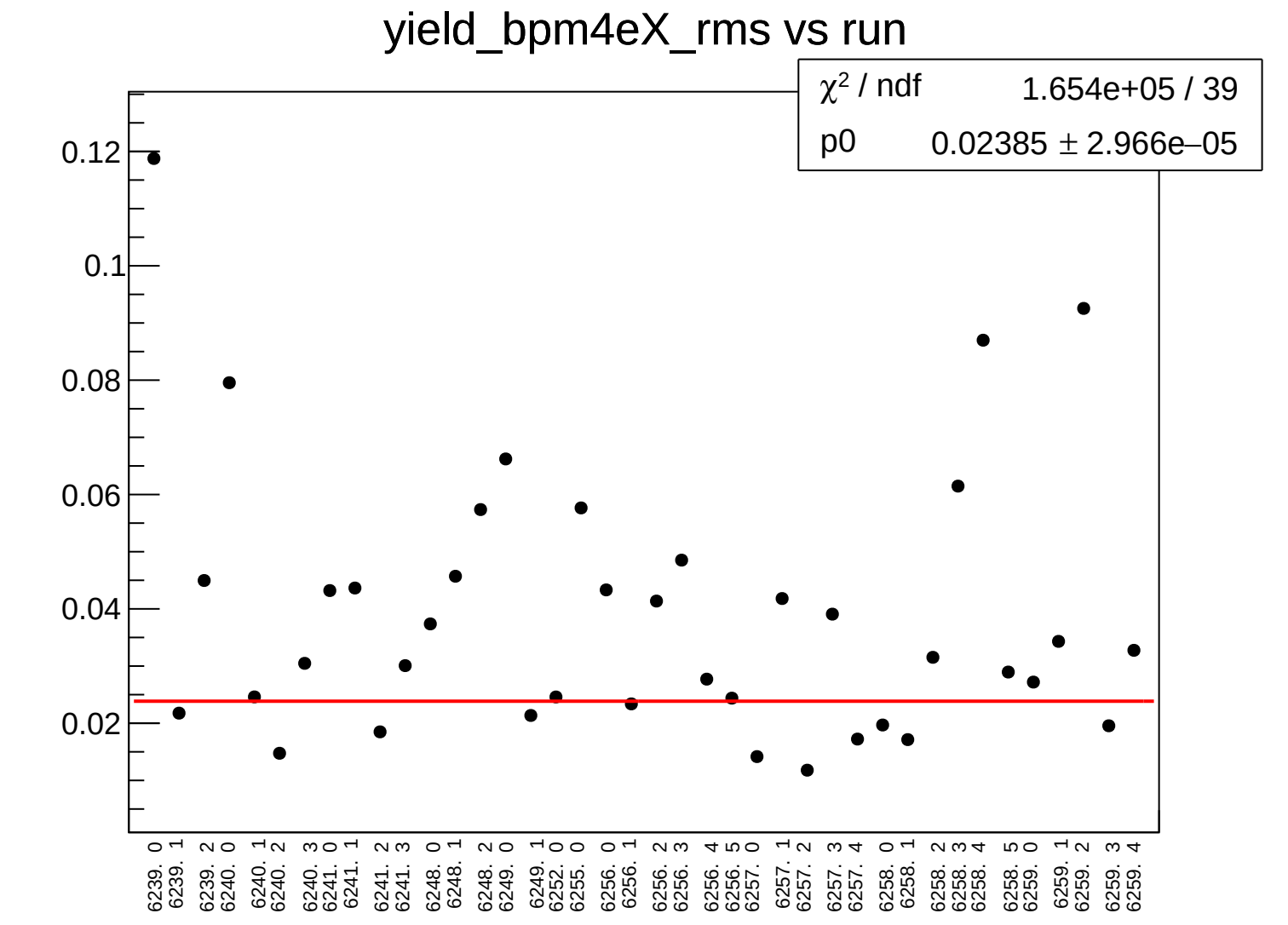

yield_bpm4aX_rms vs run
χ² / ndf 1.743e+05 / 39
p0 0.02704 ± 3.385e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

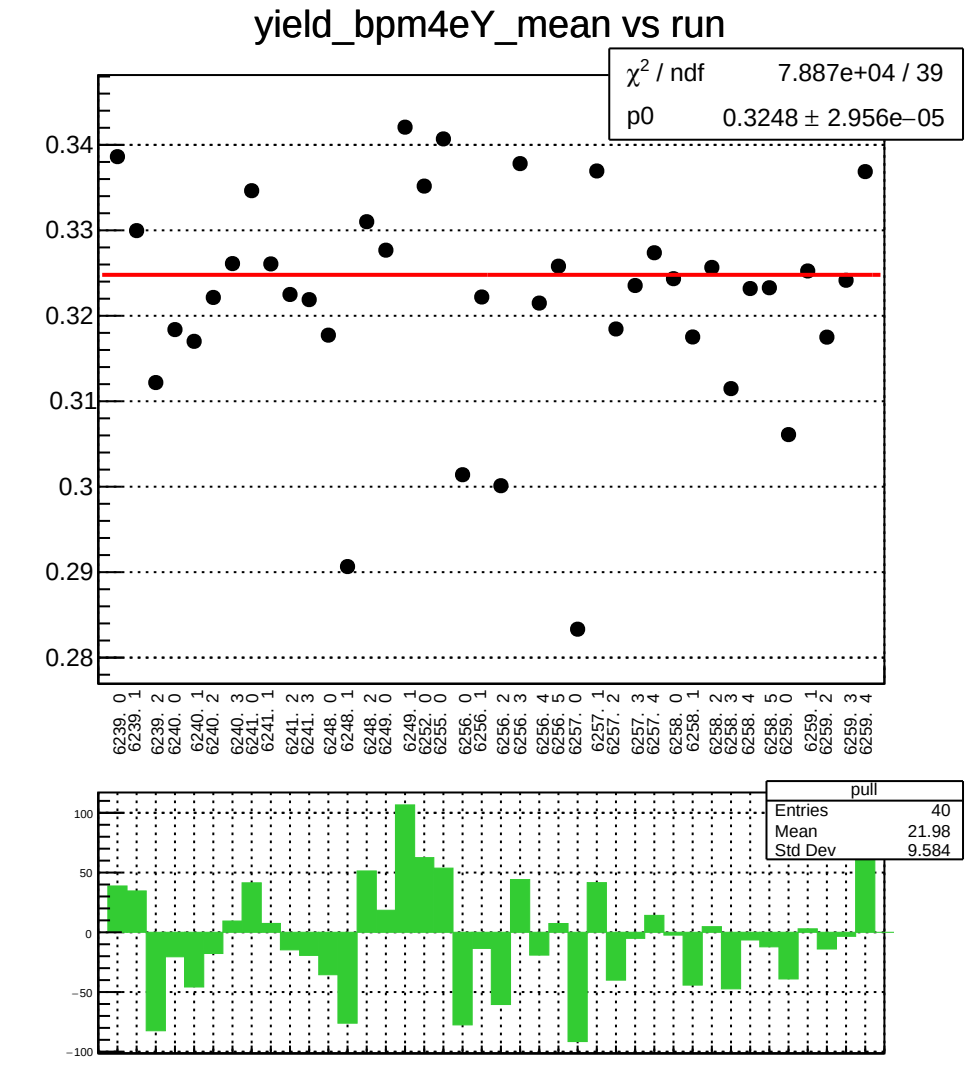

yield_bpm4aY_mean vs run
χ² / ndf 8.107e+04 / 39
p0 0.6105 ± 3.12e−05
0.63
0.62
0.61
0.6
0.59
0.58
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 9.575
Std Dev 2.374
100
80
60
40
20
0
−20
−40
−60

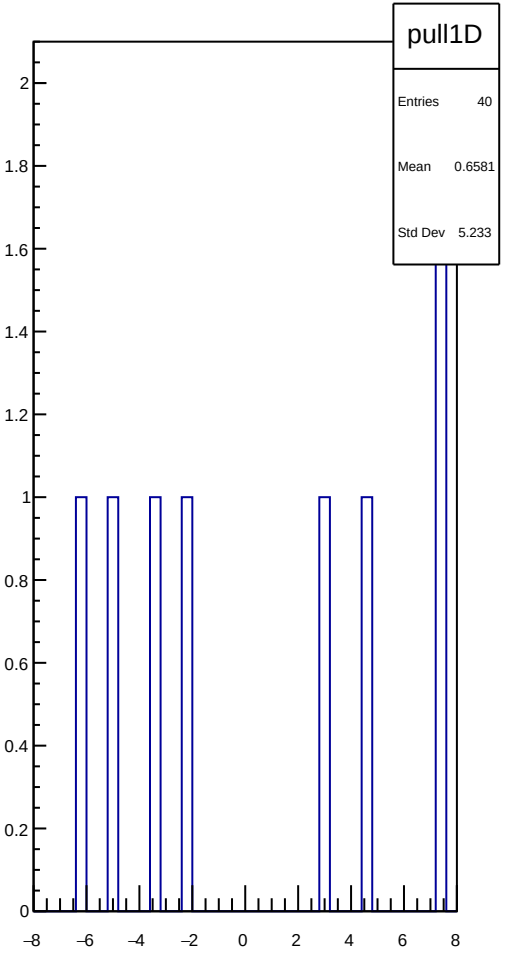

pull1D
Entries 40
Mean 0.8772
Std Dev 6.093
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

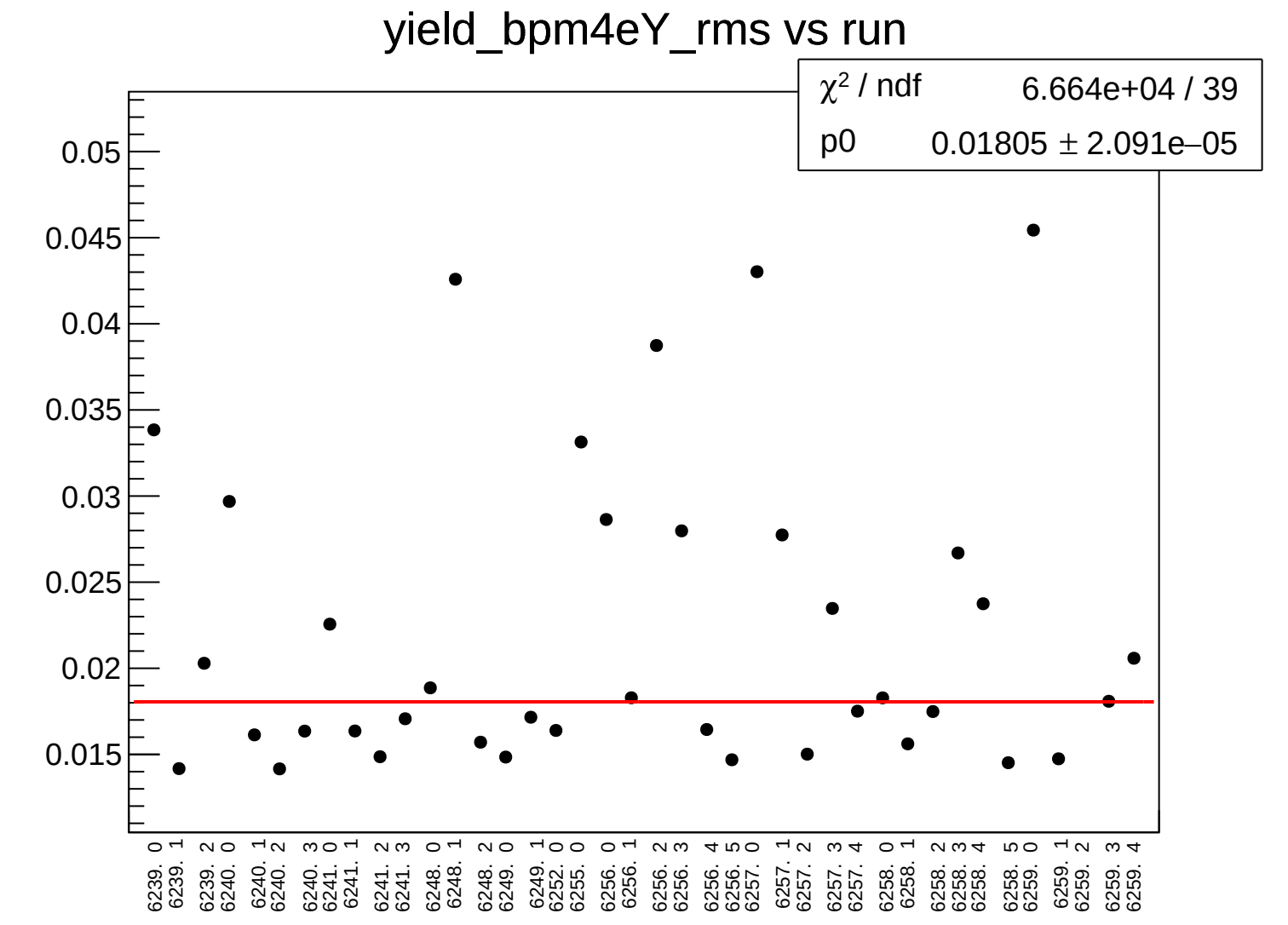

yield_bpm4aY_rms vs run
χ² / ndf 5.901e+04 / 39
p0 0.01915 ± 2.206e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

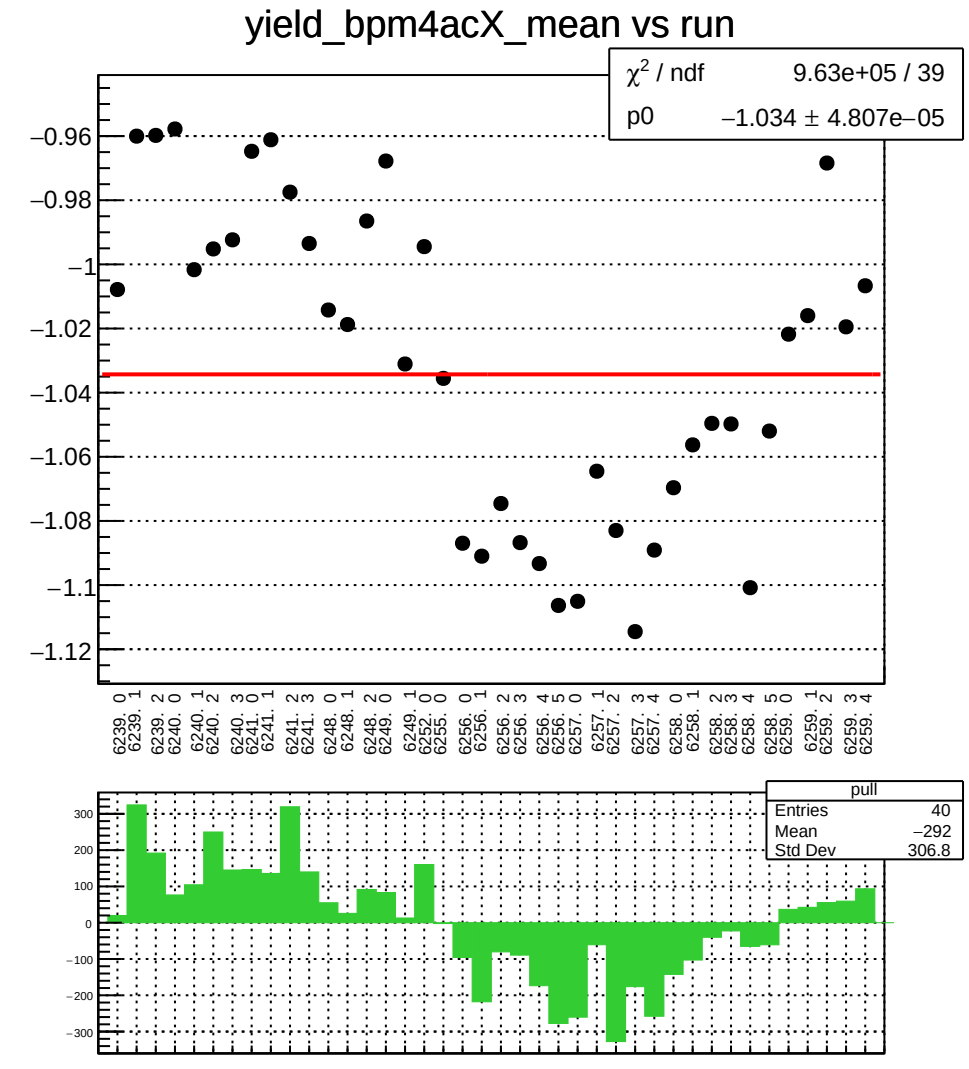

yield_bpm4eX_mean vs run
χ² / ndf 6.476e+04 / 39
p0 −0.07672 ± 4.194e−05
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 4.394
Std Dev 11.14
80
60
40
20
0
−20
−40
−60
pull1D
Entries 40
Mean −1.463
Std Dev 4.861
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

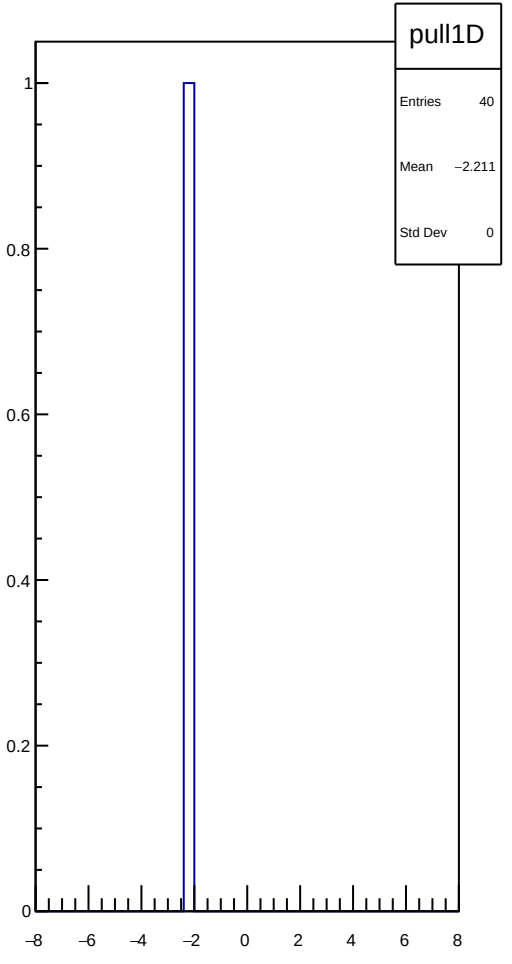

yield_bpm4eX_rms vs run
χ² / ndf 1.654e+05 / 39
p0 0.02385 ± 2.966e–05
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

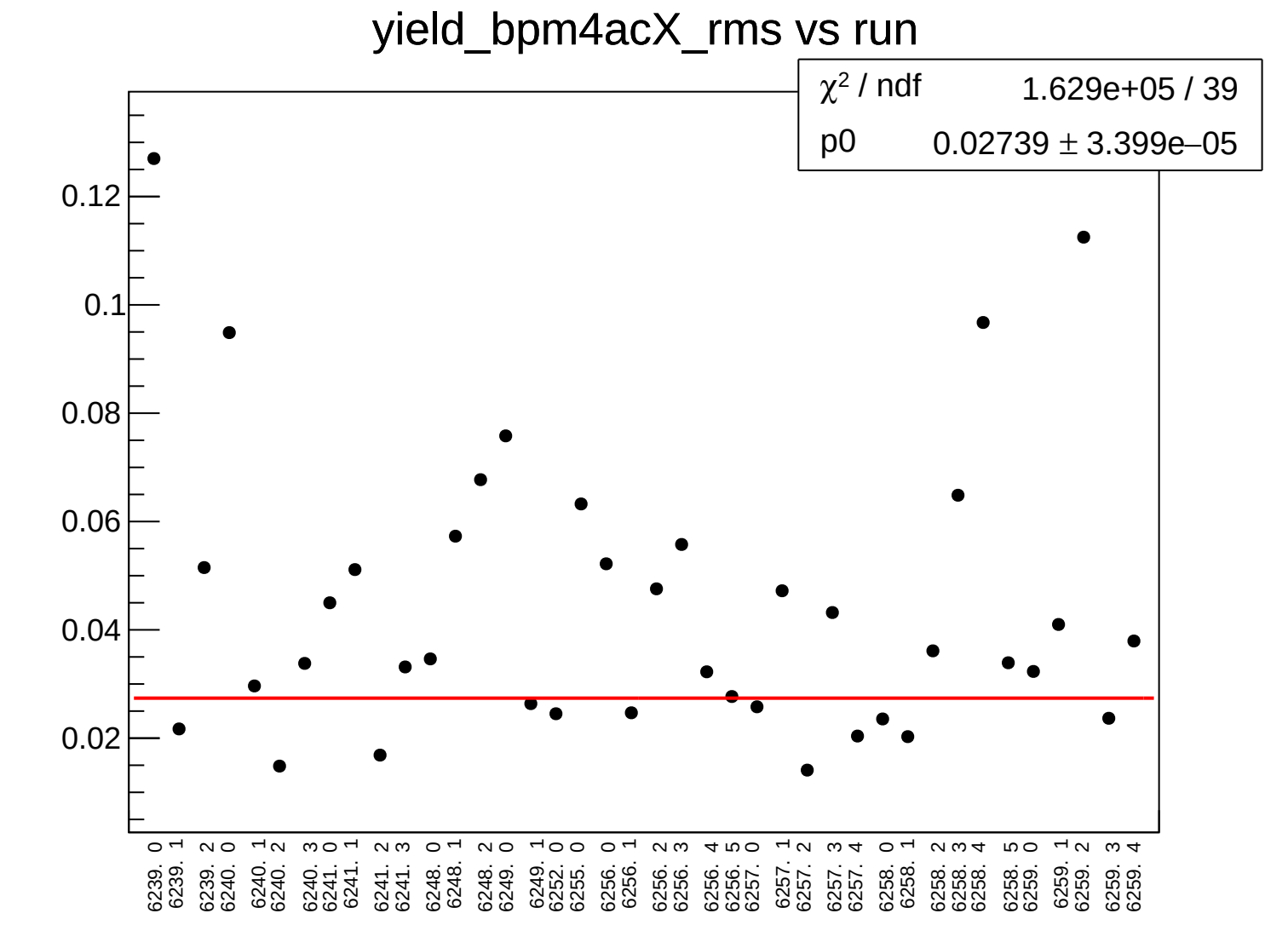

yield_bpm4eY_mean vs run
χ² / ndf 7.887e+04 / 39
p0 0.3248 ± 2.956e−05
0.34
0.33
0.32
0.31
0.3
0.29
0.28
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 21.98
Std Dev 9.584
100
50
0
−50
−100

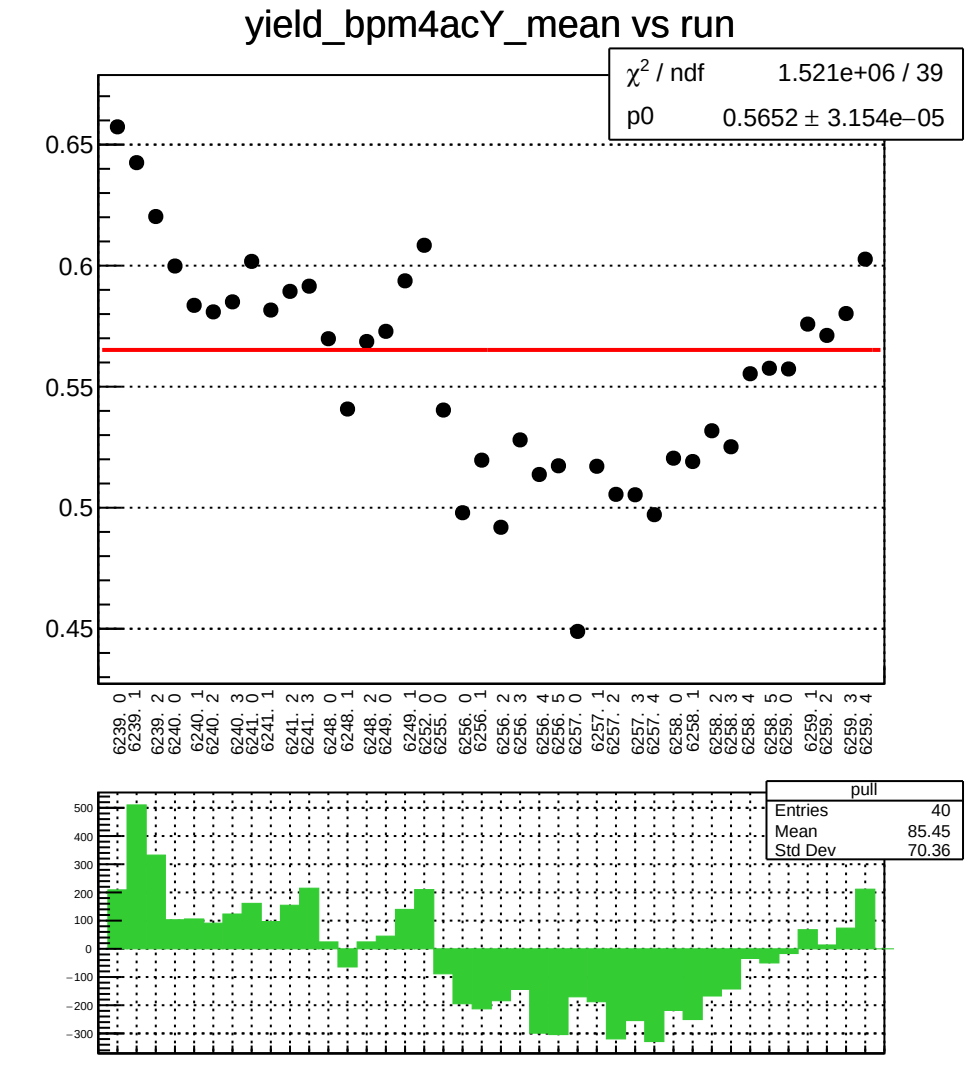

pull1D
Entries 40
Mean 0.6581
Std Dev 5.233
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

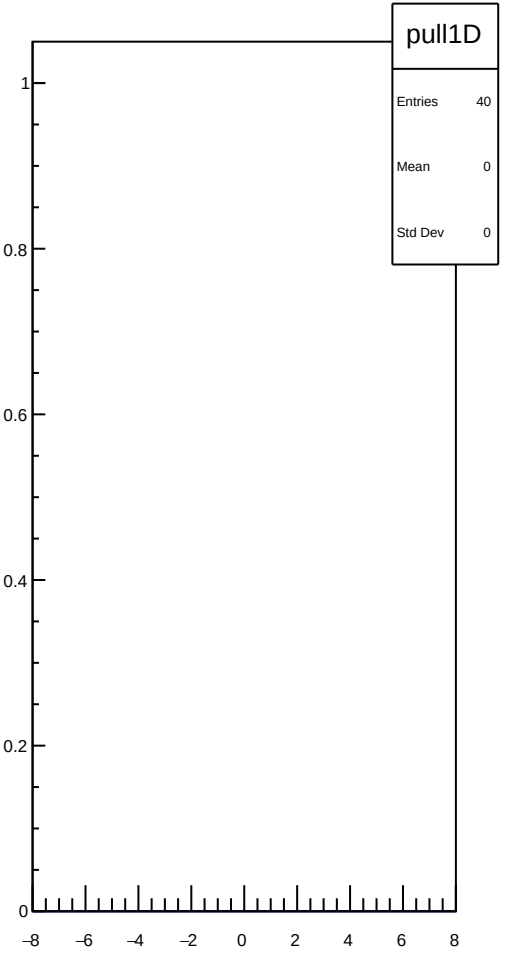

yield_bpm4eY_rms vs run
χ² / ndf 6.664e+04 / 39
p0 0.01805 ± 2.091e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

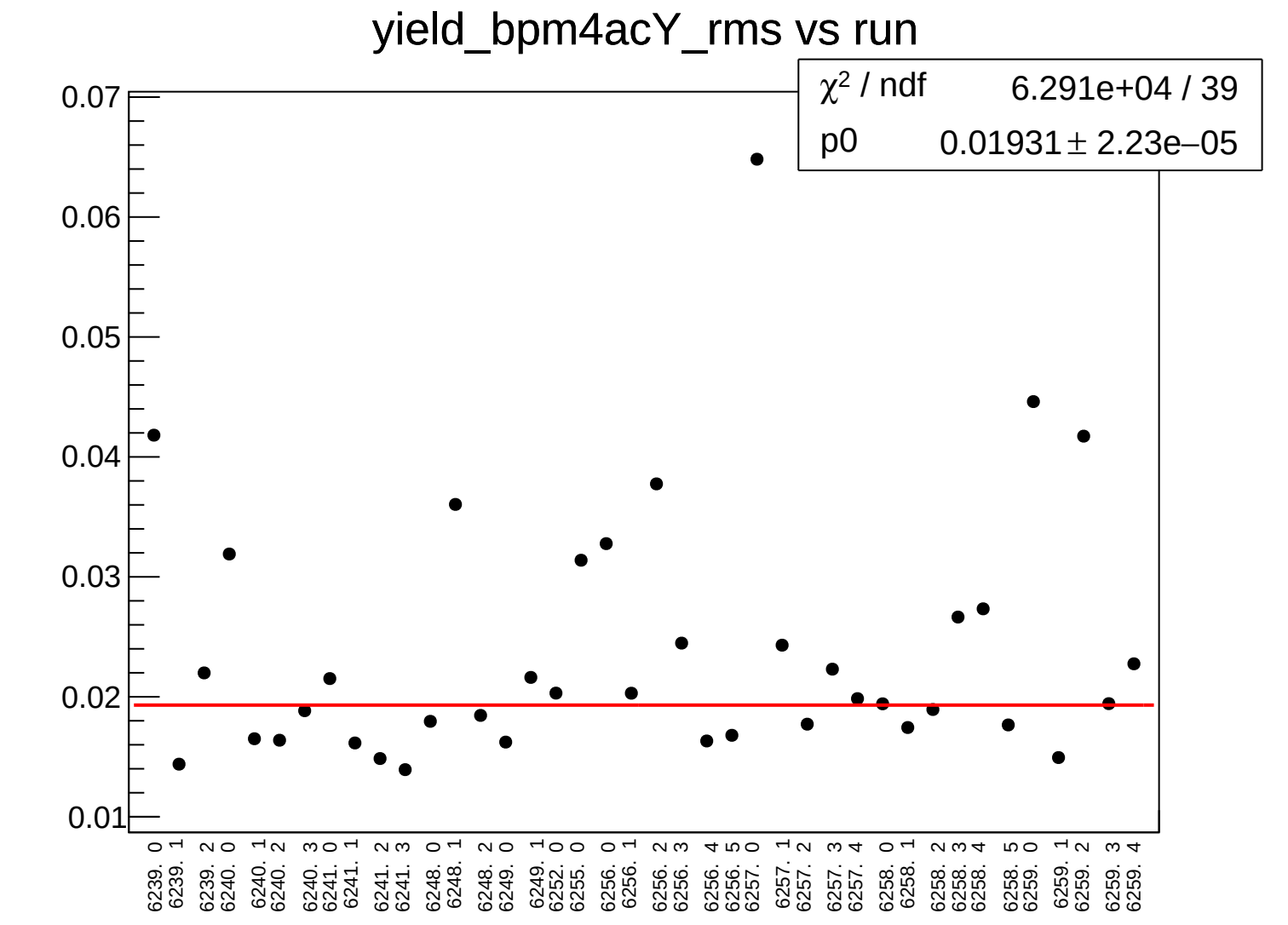

yield_bpm4acX_mean vs run
χ² / ndf 9.63e+05 / 39
p0 −1.034 ± 4.807e−05
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −292
Std Dev 306.8
300
200
100
0
−100
−200
−300

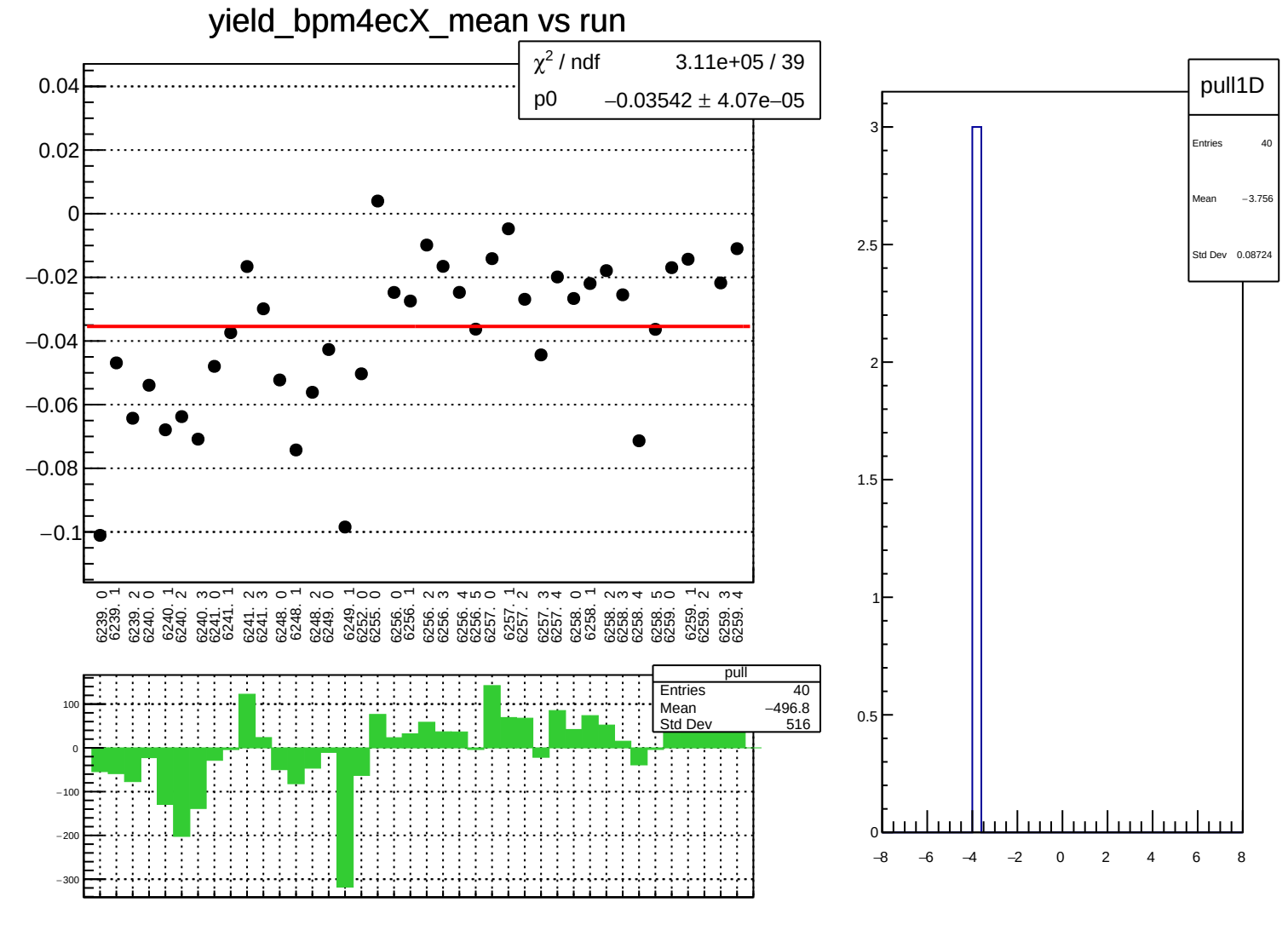

pull1D
Entries 40
Mean −2.211
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

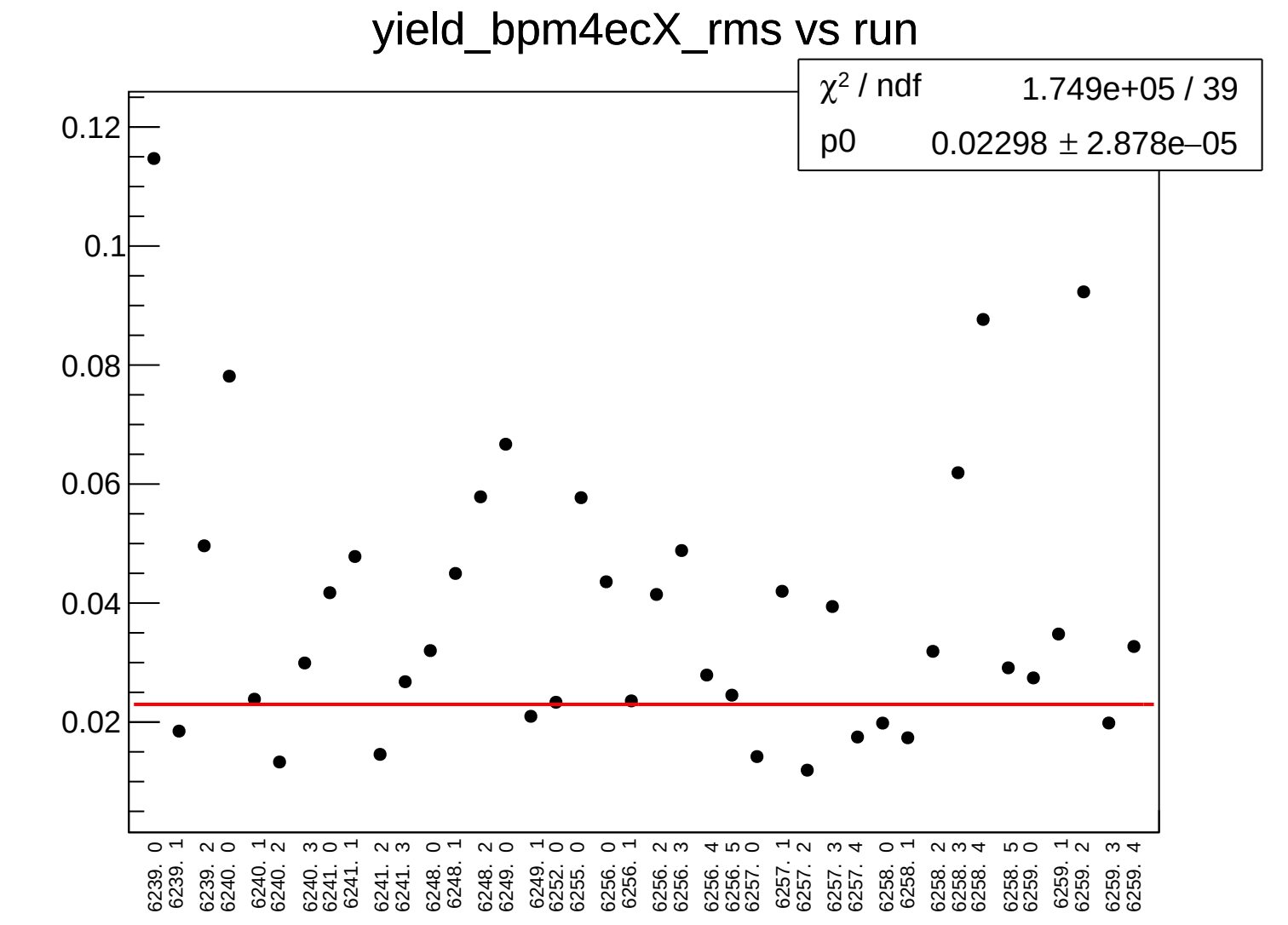

yield_bpm4acX_rms vs run
χ² / ndf 1.629e+05 / 39
p0 0.02739 ± 3.399e–05
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

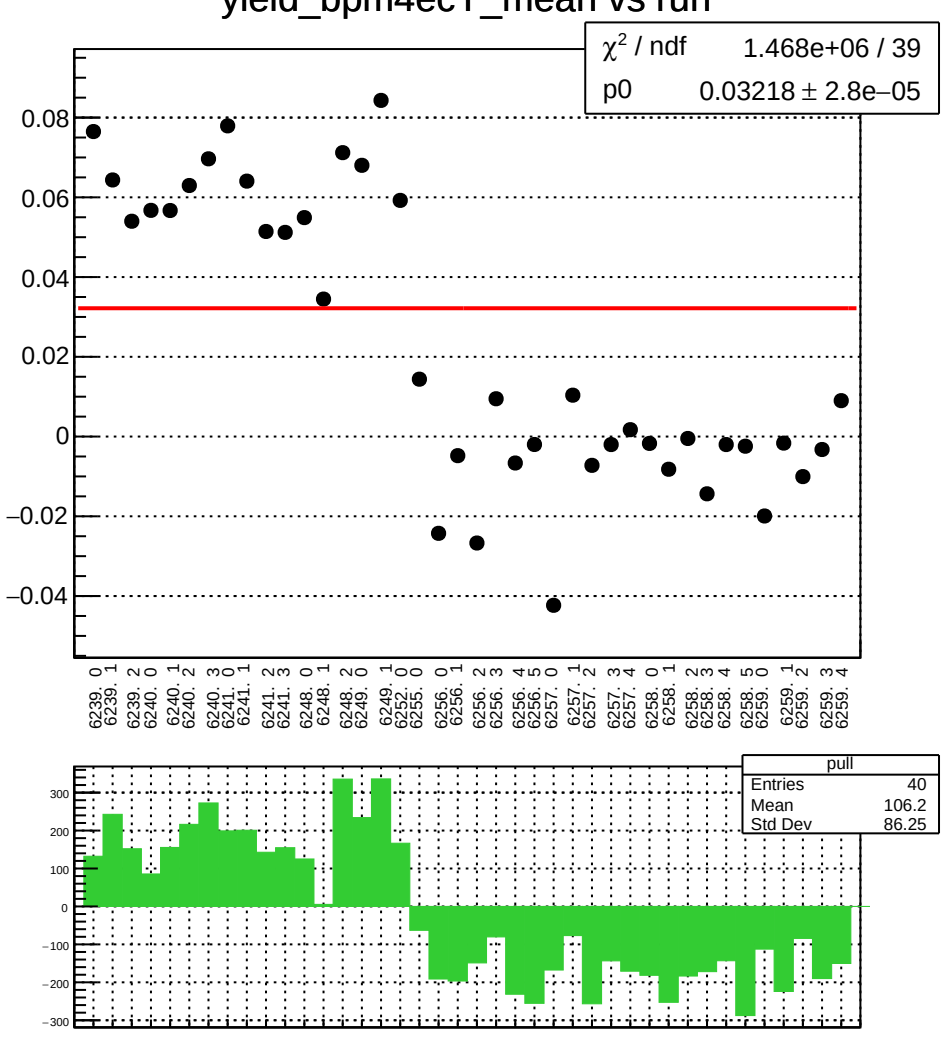

yield_bpm4acY_mean vs run
χ² / ndf 1.521e+06 / 39
p0 0.5652 ± 3.154e−05
0.65
0.6
0.55
0.5
0.45
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 85.45
Std Dev 70.36
500
400
300
200
100
0
−100
−200
−300

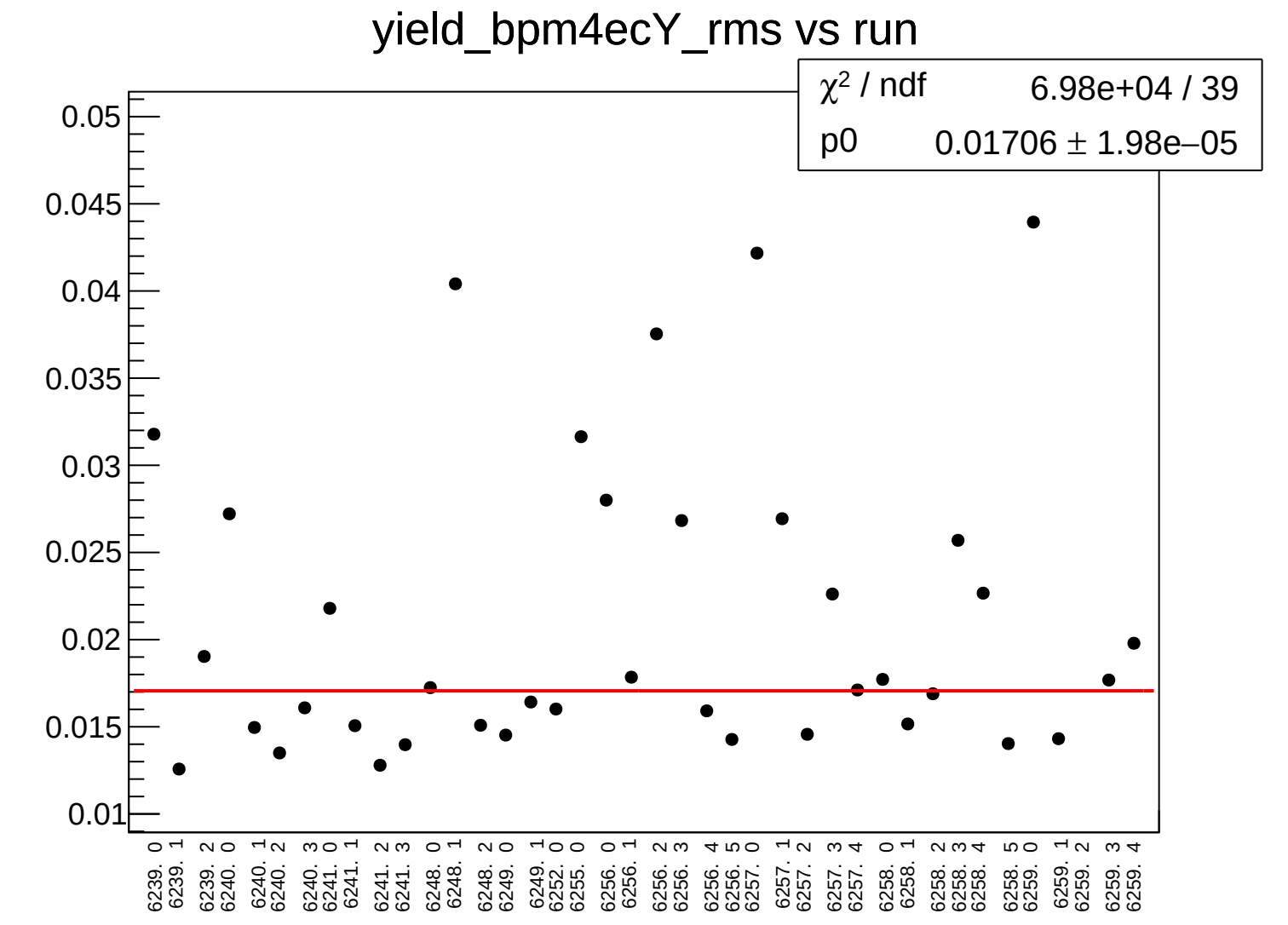

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

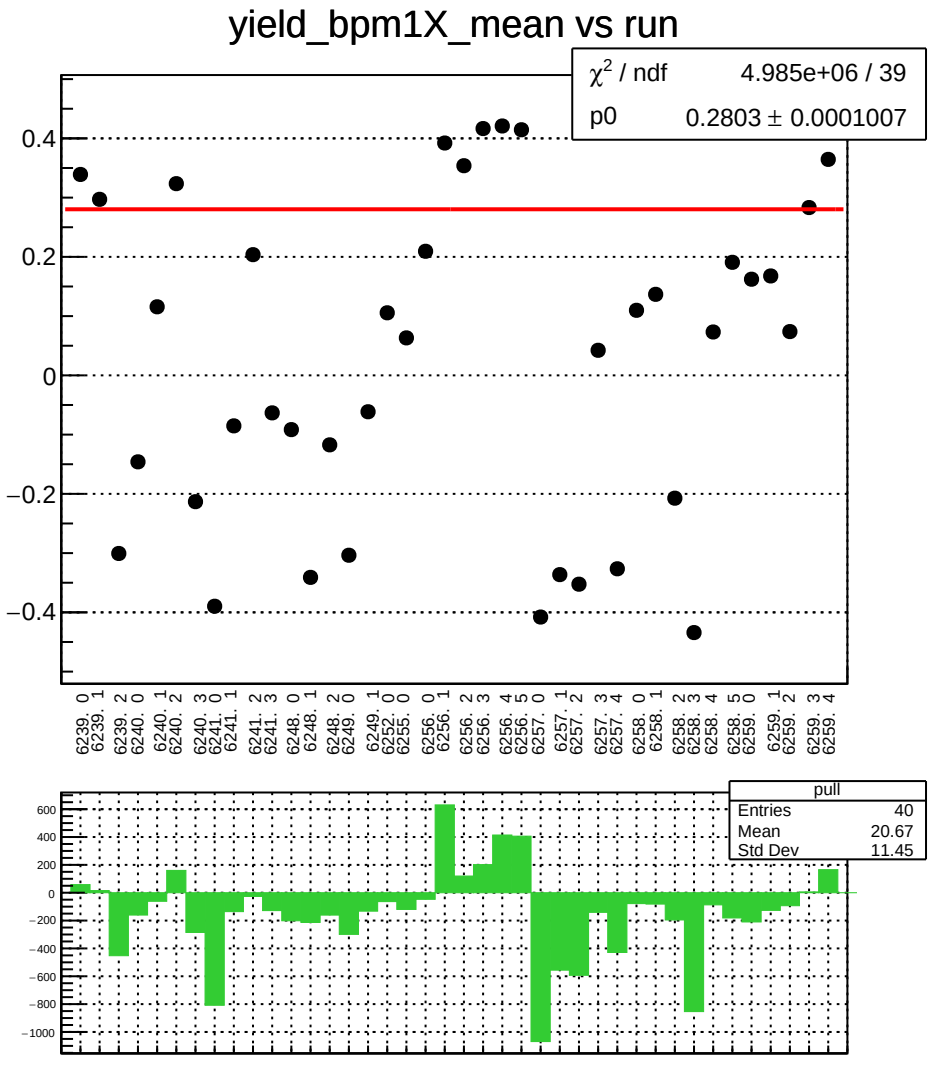

yield_bpm4acY_rms vs run
χ² / ndf 6.291e+04 / 39
p0 0.01931 ± 2.23e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

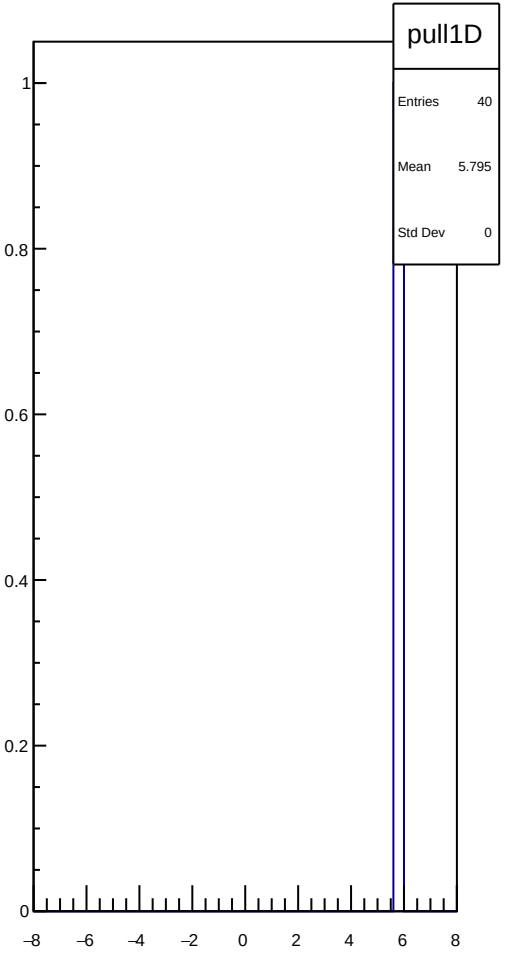

yield_bpm4ecX_mean vs run
χ² / ndf 3.11e+05 / 39
p0 −0.03542 ± 4.07e−05
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −496.8
Std Dev 516
100
0
−100
−200
−300
pull1D
Entries 40
Mean −3.756
Std Dev 0.08724
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

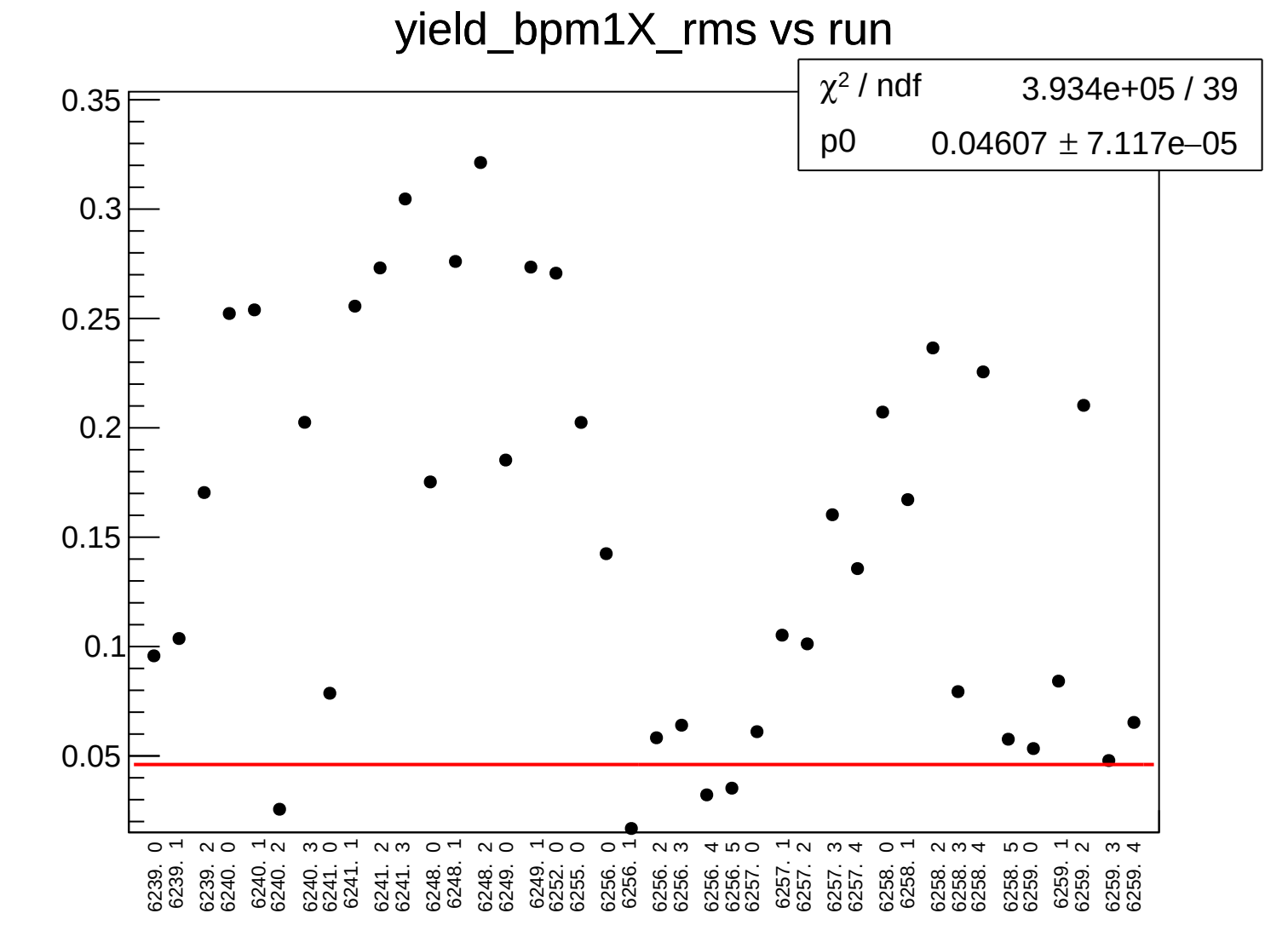

yield_bpm4ecX_rms vs run
χ² / ndf 1.749e+05 / 39
p0 0.02298 ± 2.878e–05
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

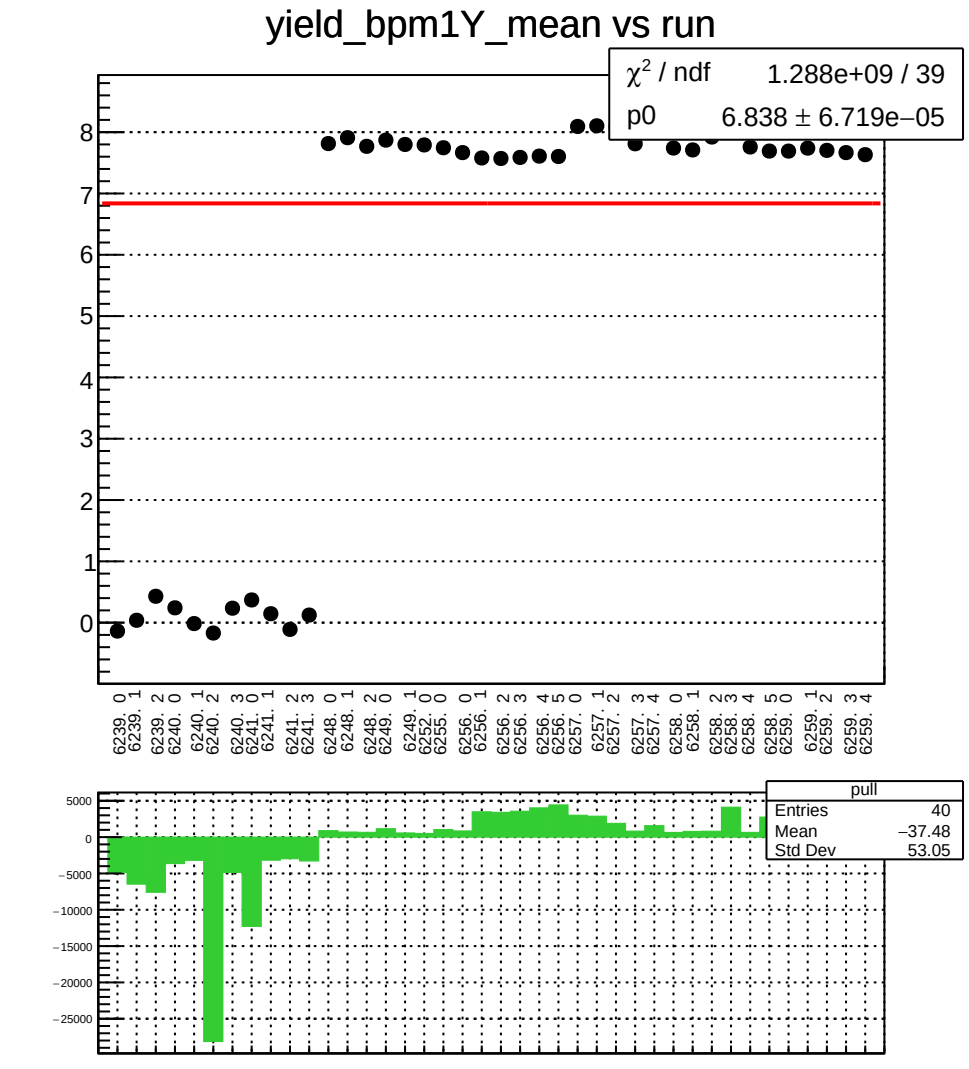

yield_bpm4ecY_mean vs run
χ² / ndf 1.468e+06 / 39
p0 0.03218 ± 2.8e−05
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 106.2
Std Dev 86.25
300
200
100
0
−100
−200
−300
pull1D
Entries 40
Mean 5.403
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

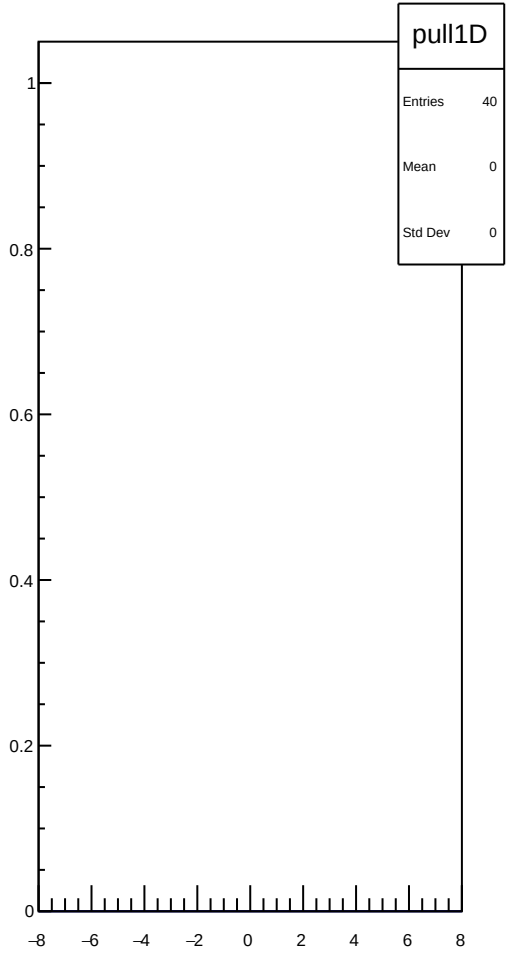

yield_bpm4ecY_rms vs run
χ² / ndf 6.98e+04 / 39
p0 0.01706 ± 1.98e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

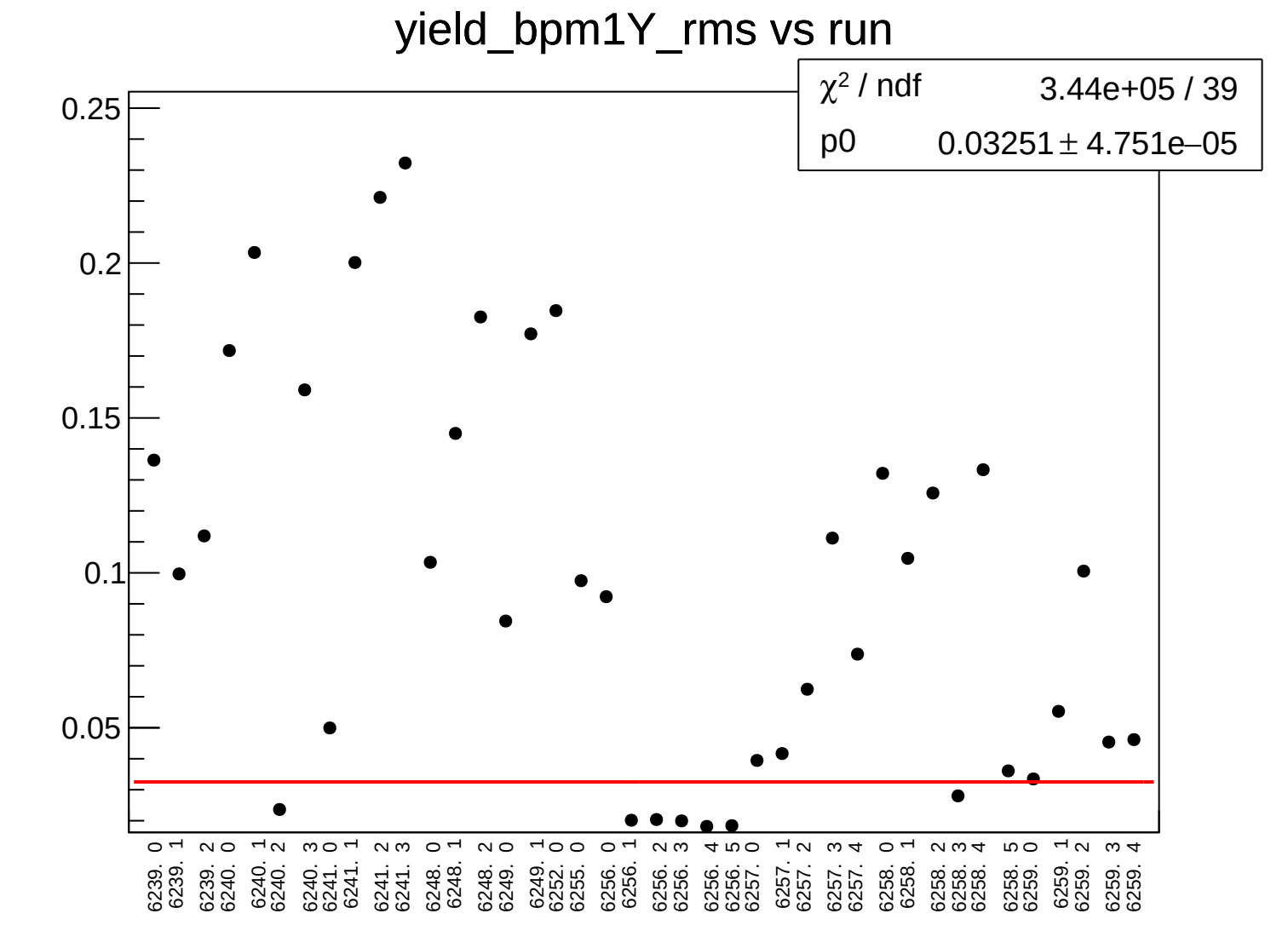

yield_bpm1X_mean vs run
χ² / ndf 4.985e+06 / 39
p0 0.2803 ± 0.0001007
0.4
0.2
0
−0.2
−0.4
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20.67
Std Dev 11.45
600
400
200
0
−200
−400
−600
−800
−1000

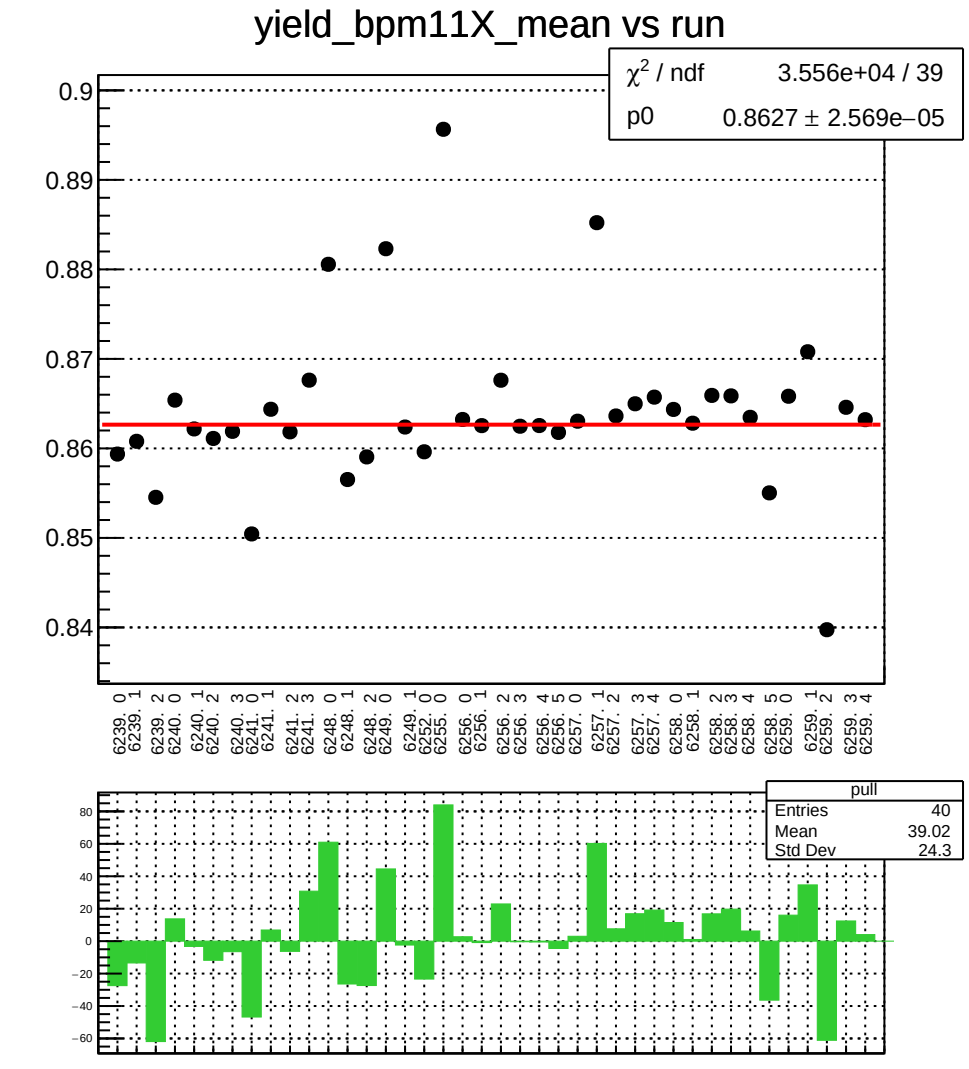

pull1D
Entries 40
Mean 5.795
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

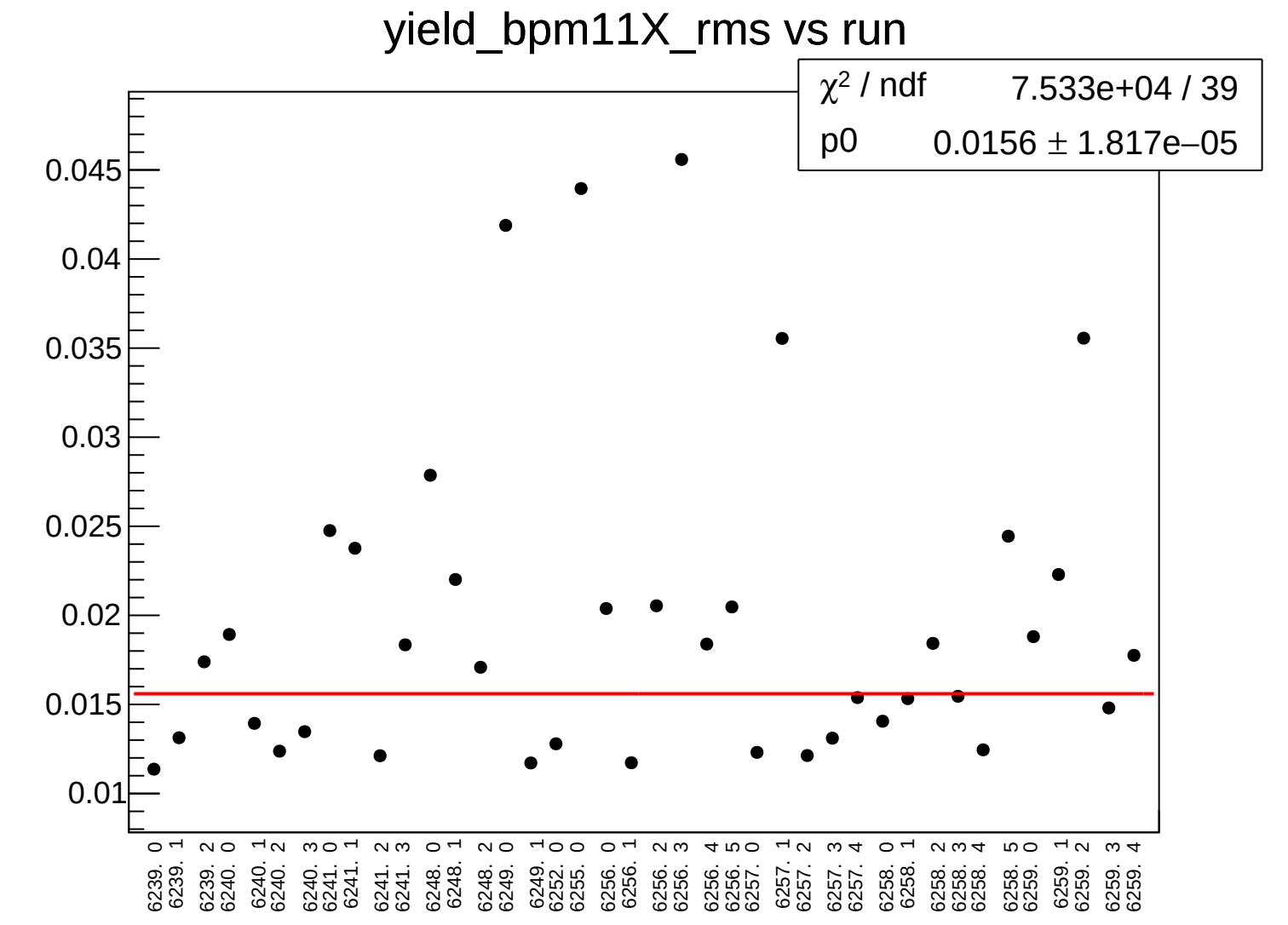

yield_bpm1X_rms vs run
χ² / ndf 3.934e+05 / 39
p0 0.04607 ± 7.117e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

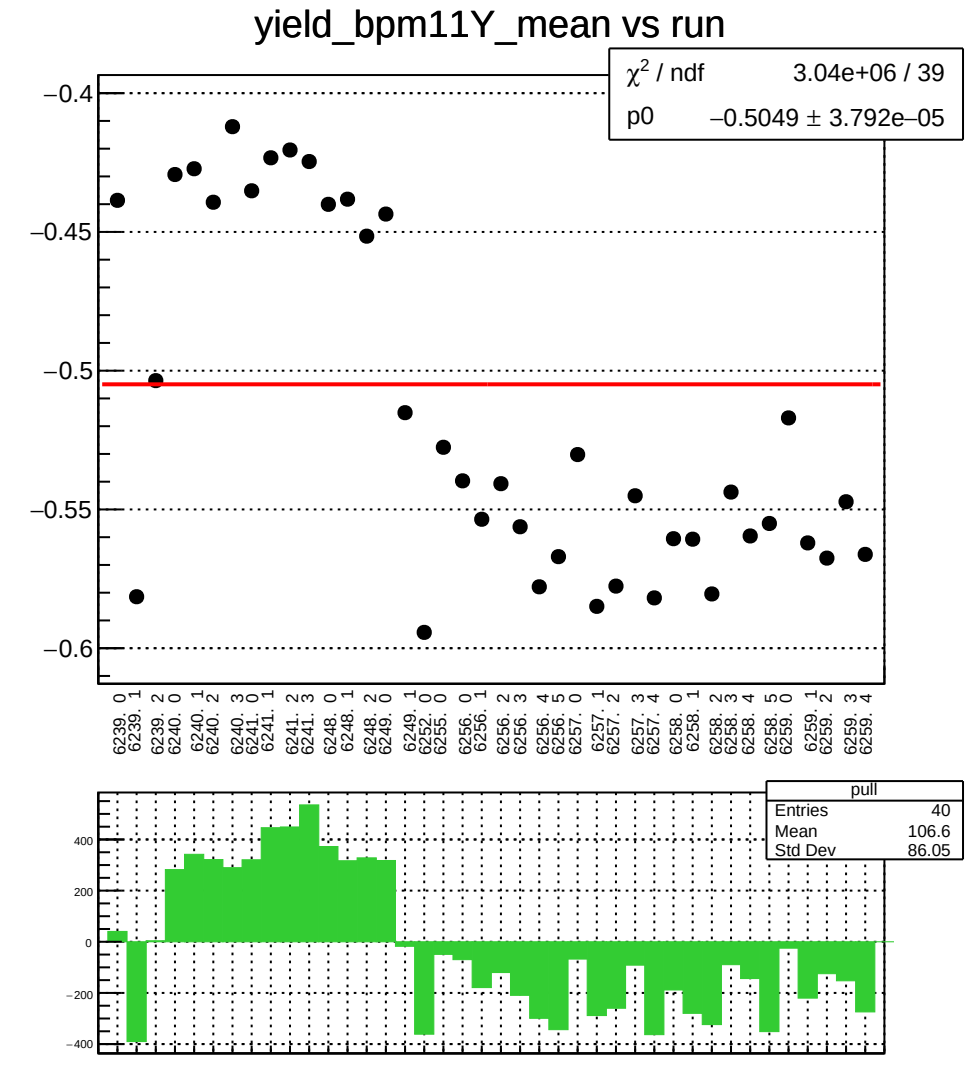

yield_bpm1Y_mean vs run
χ² / ndf 1.288e+09 / 39
p0 6.838 ± 6.719e−05
pull
Entries 40
Mean −37.48
Std Dev 53.05

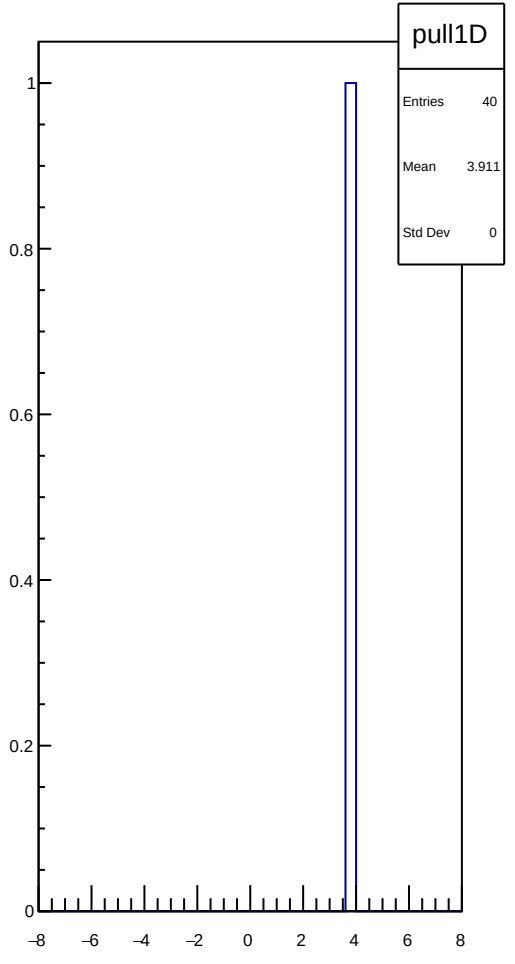

pull1D
Entries 40
Mean 0
Std Dev 0

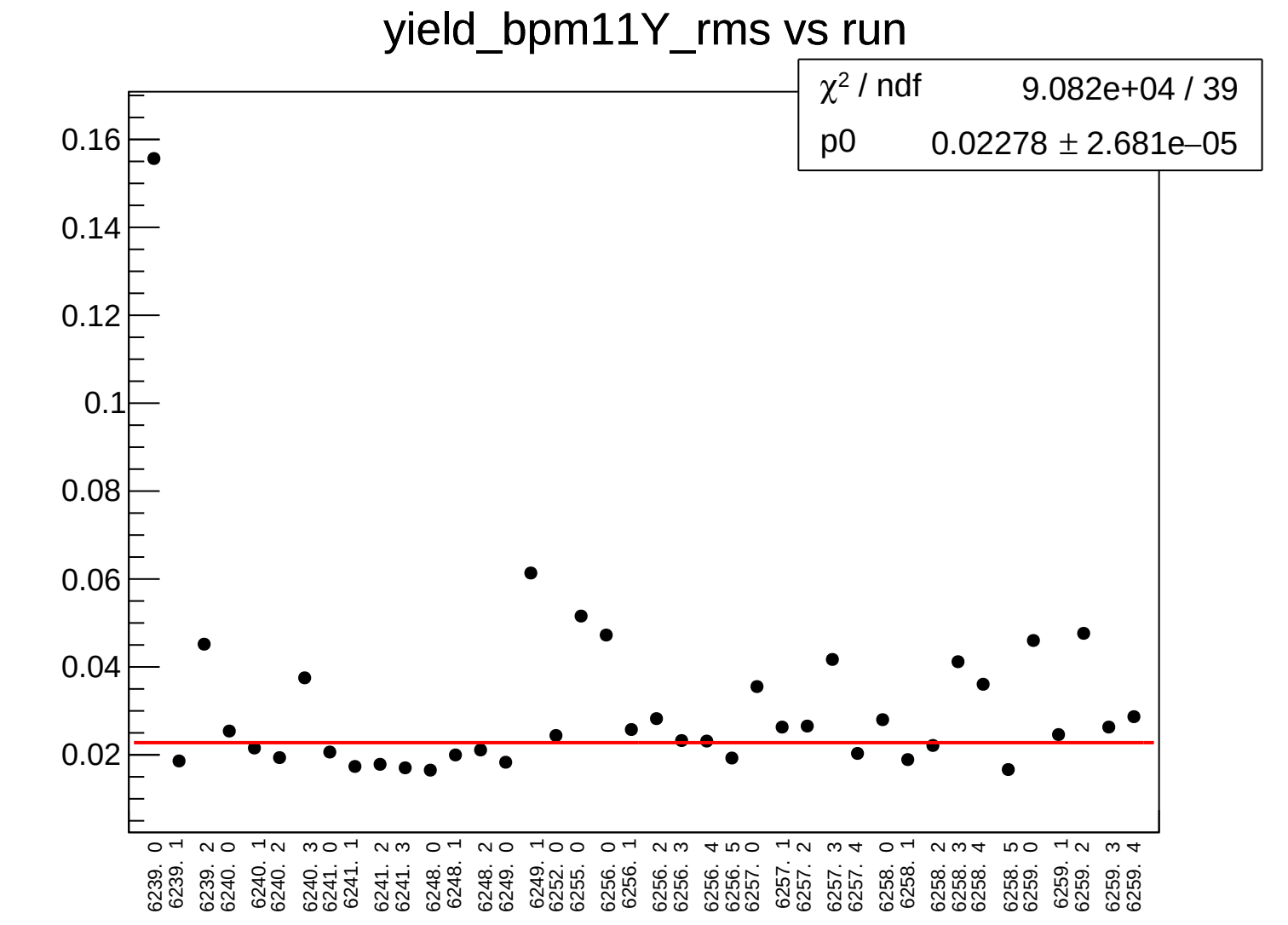

yield_bpm1Y_rms vs run
χ² / ndf 3.44e+05 / 39
p0 0.03251 ± 4.751e–05
0.25
0.2
0.15
0.1
0.05
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

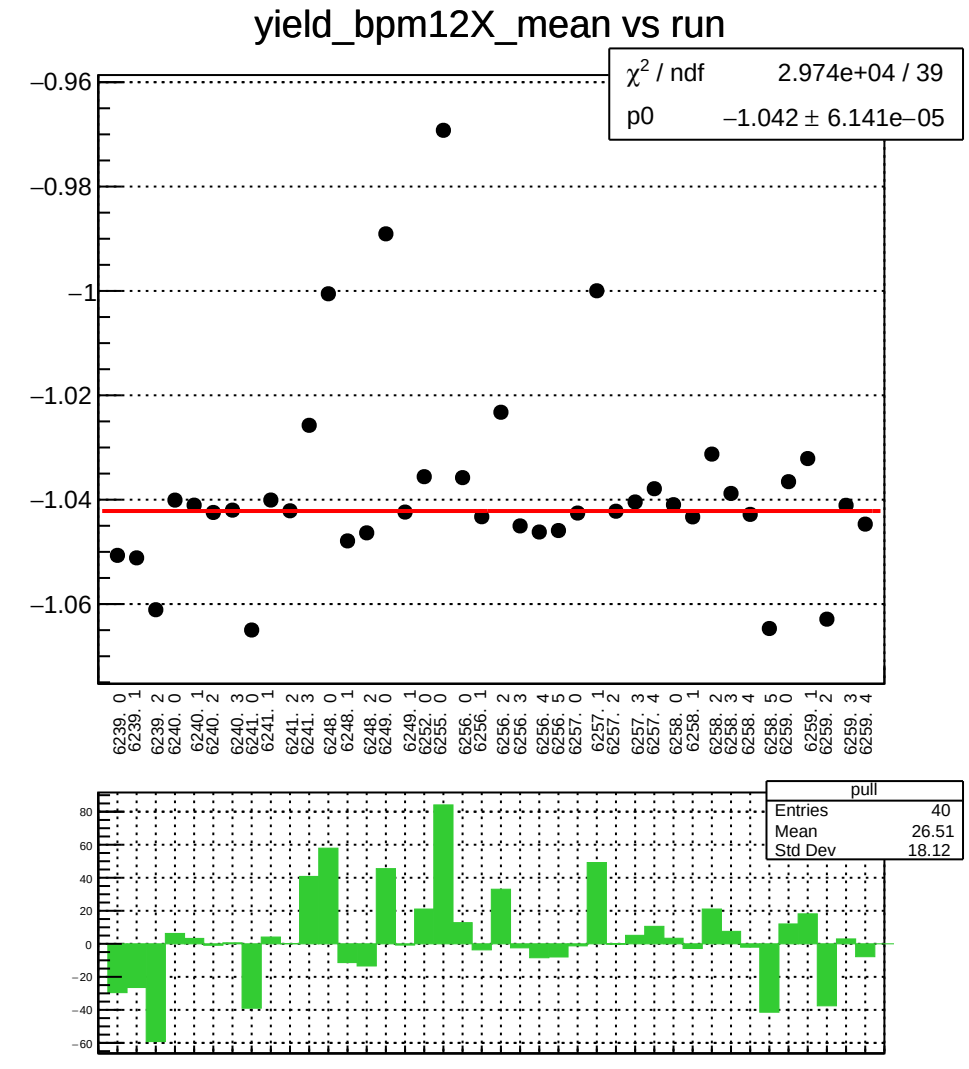

yield_bpm11X_mean vs run
χ² / ndf 3.556e+04 / 39
p0 0.8627 ± 2.569e−05
0.9
0.89
0.88
0.87
0.86
0.85
0.84
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 39.02
Std Dev 24.3
80
60
40
20
0
−20
−40
−60
pull1D
Entries 40
Mean 0.4529
Std Dev 4.424
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

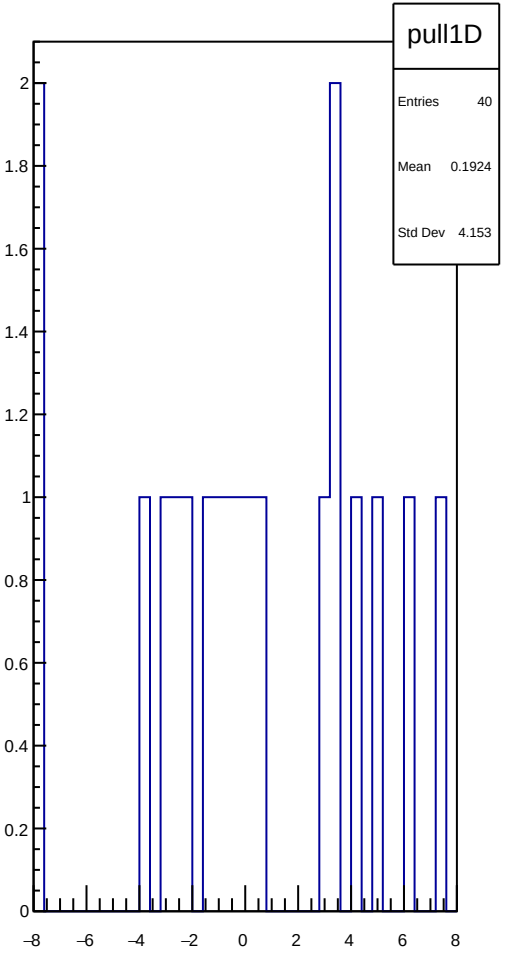

yield_bpm11X_rms vs run
χ² / ndf 7.533e+04 / 39
p0 0.0156 ± 1.817e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

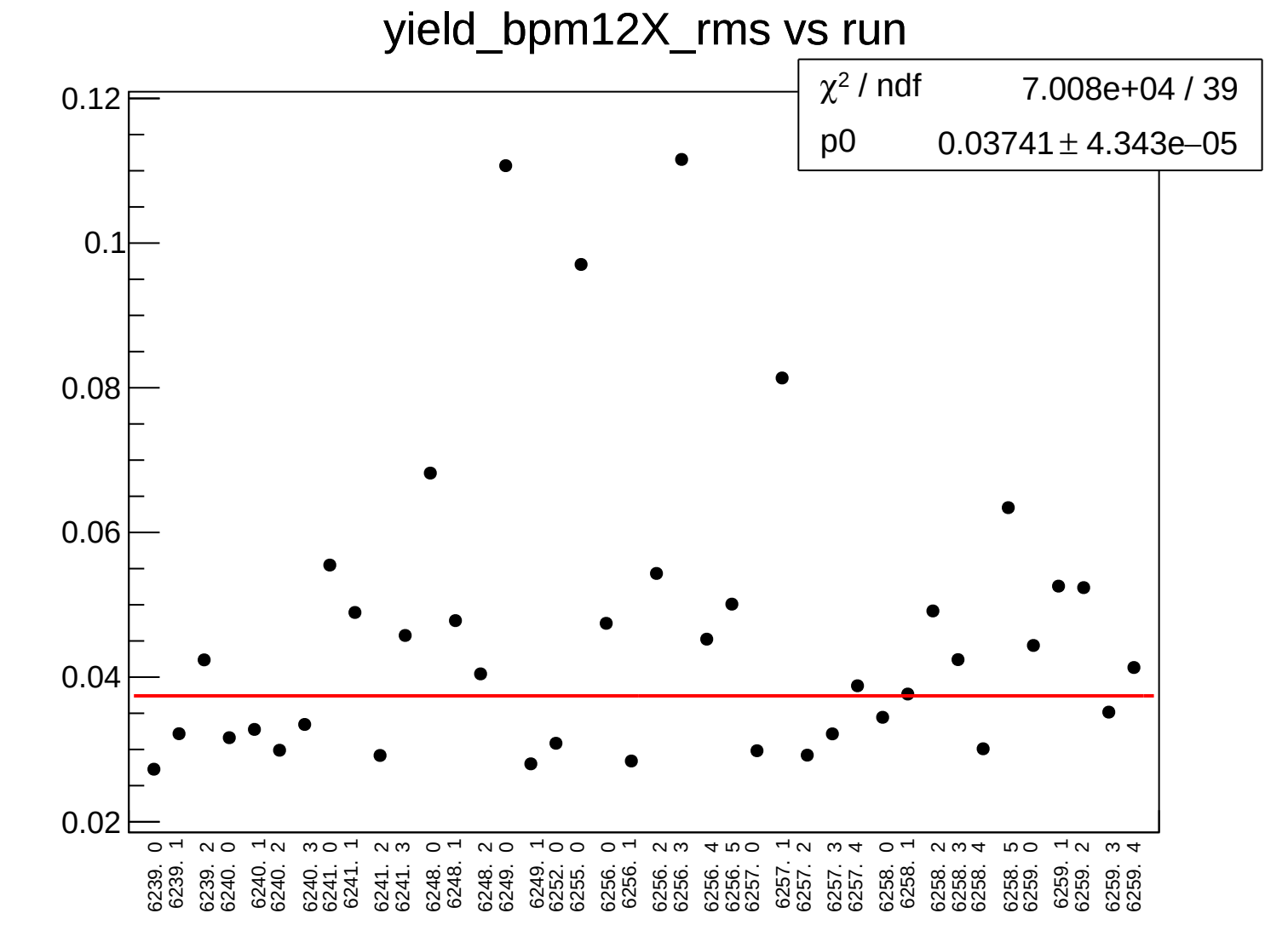

yield_bpm11Y_mean vs run
χ² / ndf 3.04e+06 / 39
p0 −0.5049 ± 3.792e−05
−0.4
−0.45
−0.5
−0.55
−0.6
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 106.6
Std Dev 86.05
400
200
0
−200
−400

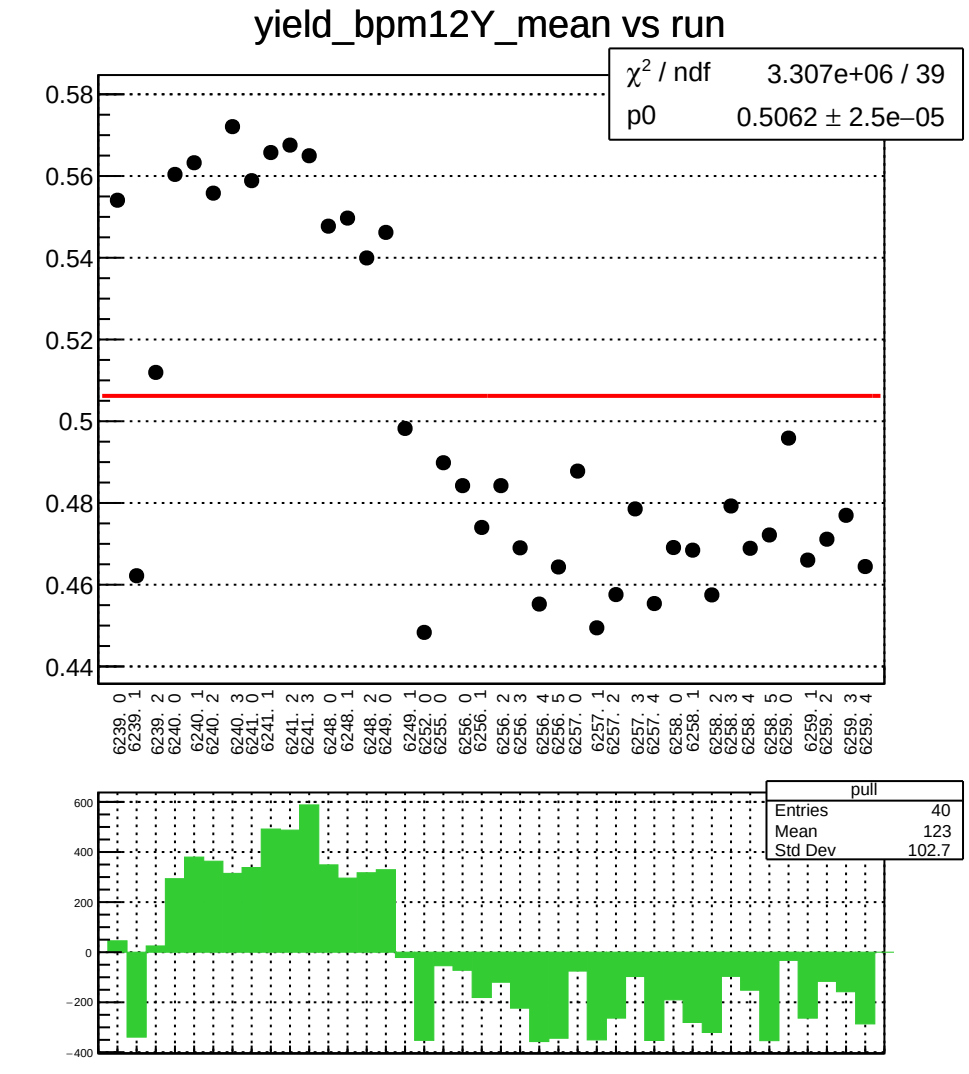

pull1D
Entries 40
Mean 3.911
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

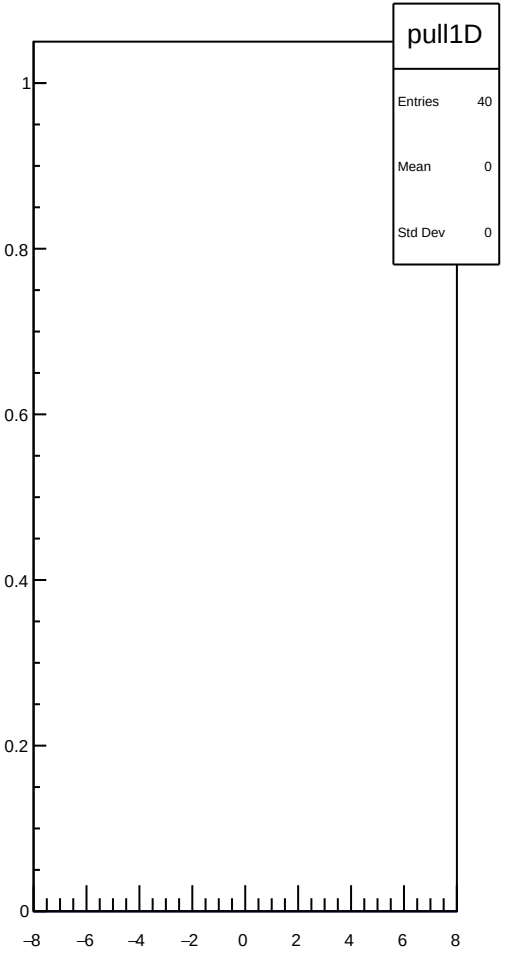

yield_bpm11Y_rms vs run
χ² / ndf 9.082e+04 / 39
p0 0.02278 ± 2.681e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

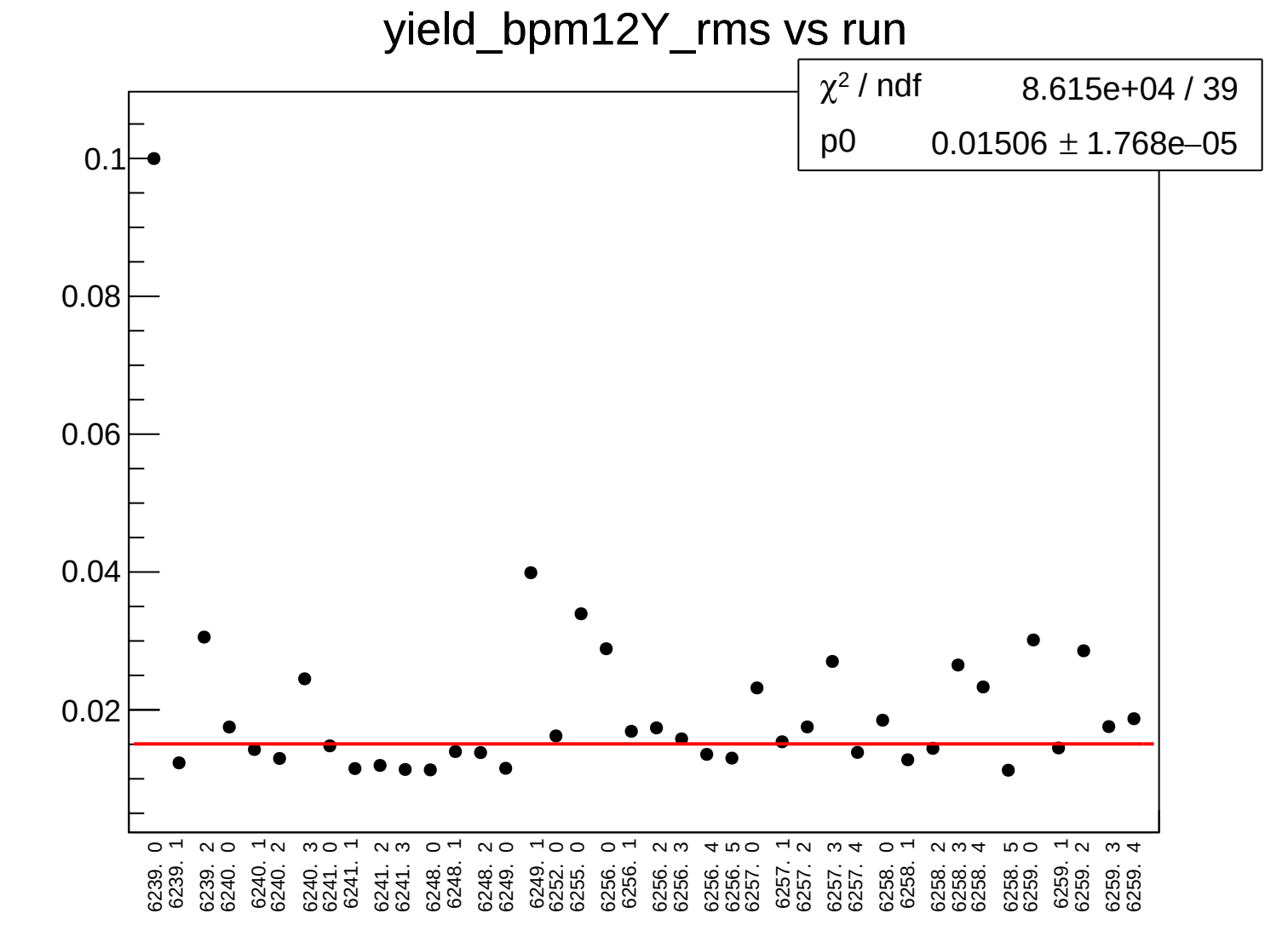

yield_bpm12X_mean vs run
χ² / ndf 2.974e+04 / 39
p0 −1.042 ± 6.141e−05
−0.96
−0.98
−1
−1.02
−1.04
−1.06
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 26.51
Std Dev 18.12
80
60
40
20
0
−20
−40
−60


pull1D
Entries 40
Mean 0.1924
Std Dev 4.153
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_bpm12X_rms vs run
χ² / ndf 7.008e+04 / 39
p0 0.03741 ± 4.343e–05
0.12
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


yield_bpm12Y_mean vs run
χ² / ndf 3.307e+06 / 39
p0 0.5062 ± 2.5e−05
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 123
Std Dev 102.7
600
400
200
0
−200
−400


pull1D
Entries 40
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_bpm12Y_rms vs run
χ² / ndf 8.615e+04 / 39
p0 0.01506 ± 1.768e–05
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
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6249. 1
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6255. 0
6256. 0
6256. 1
6256. 2
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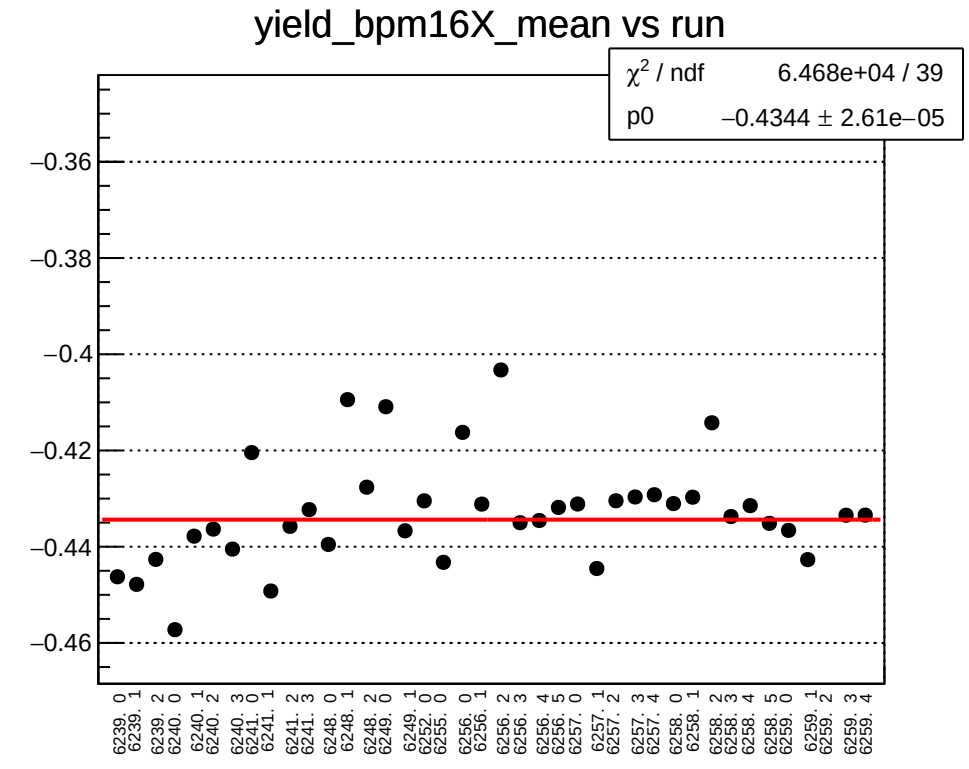
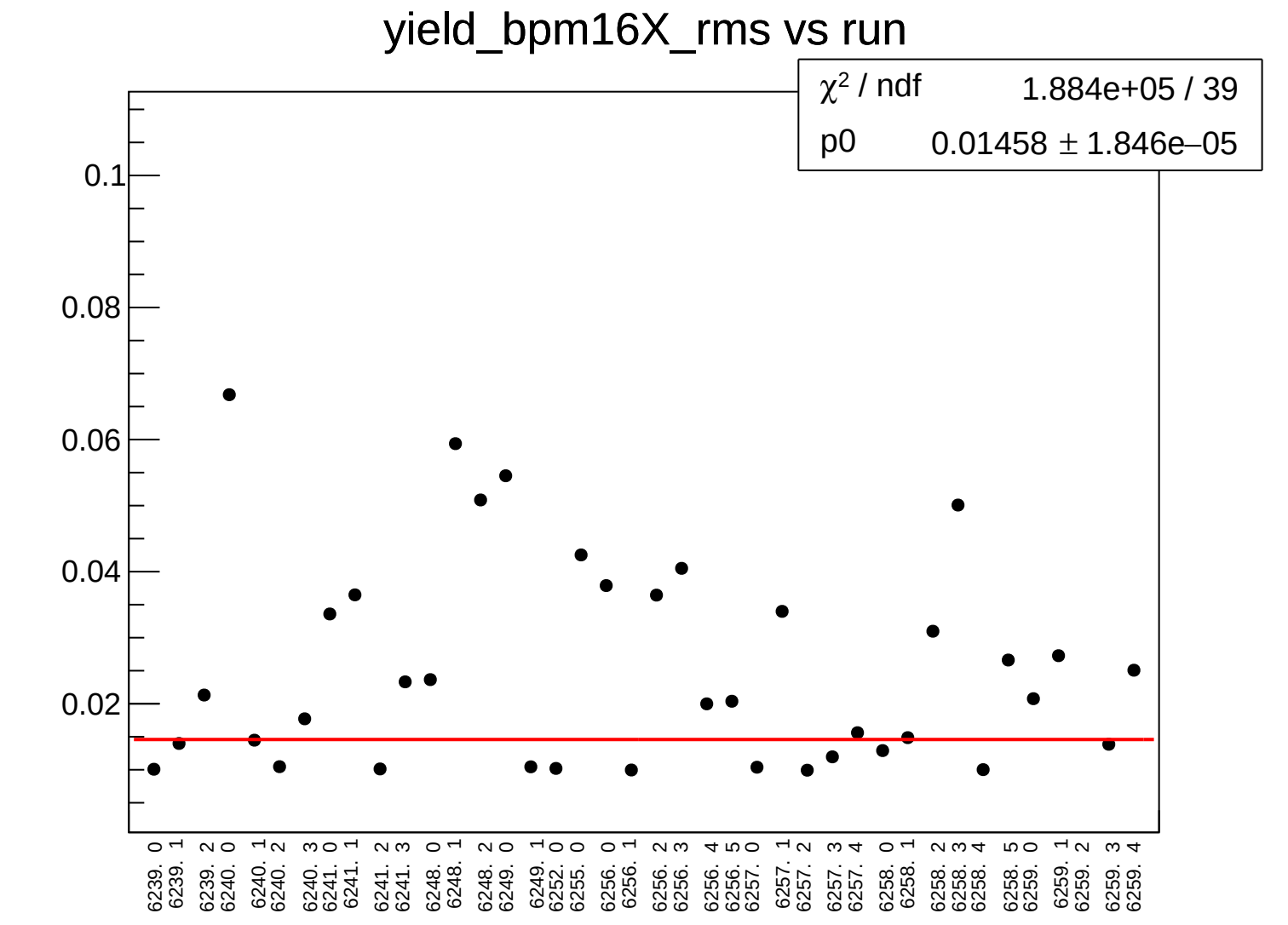
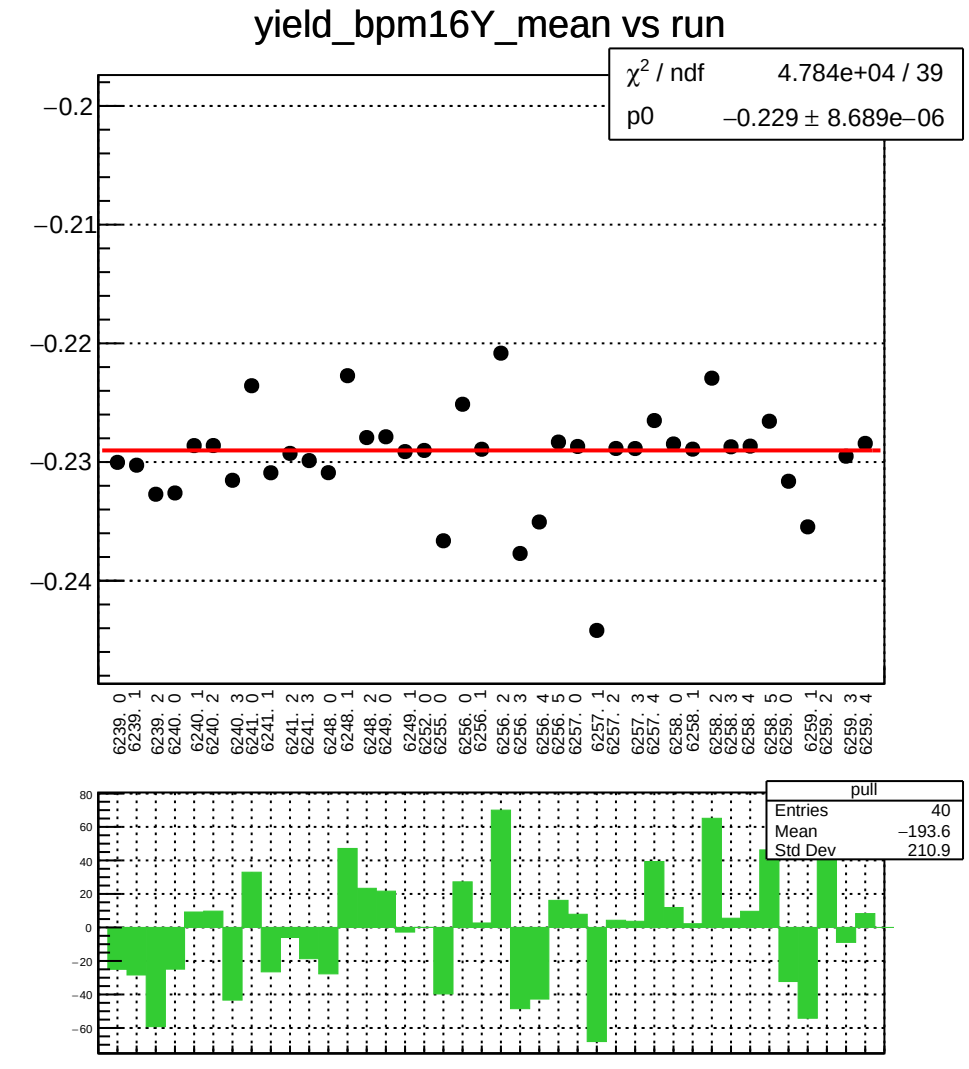
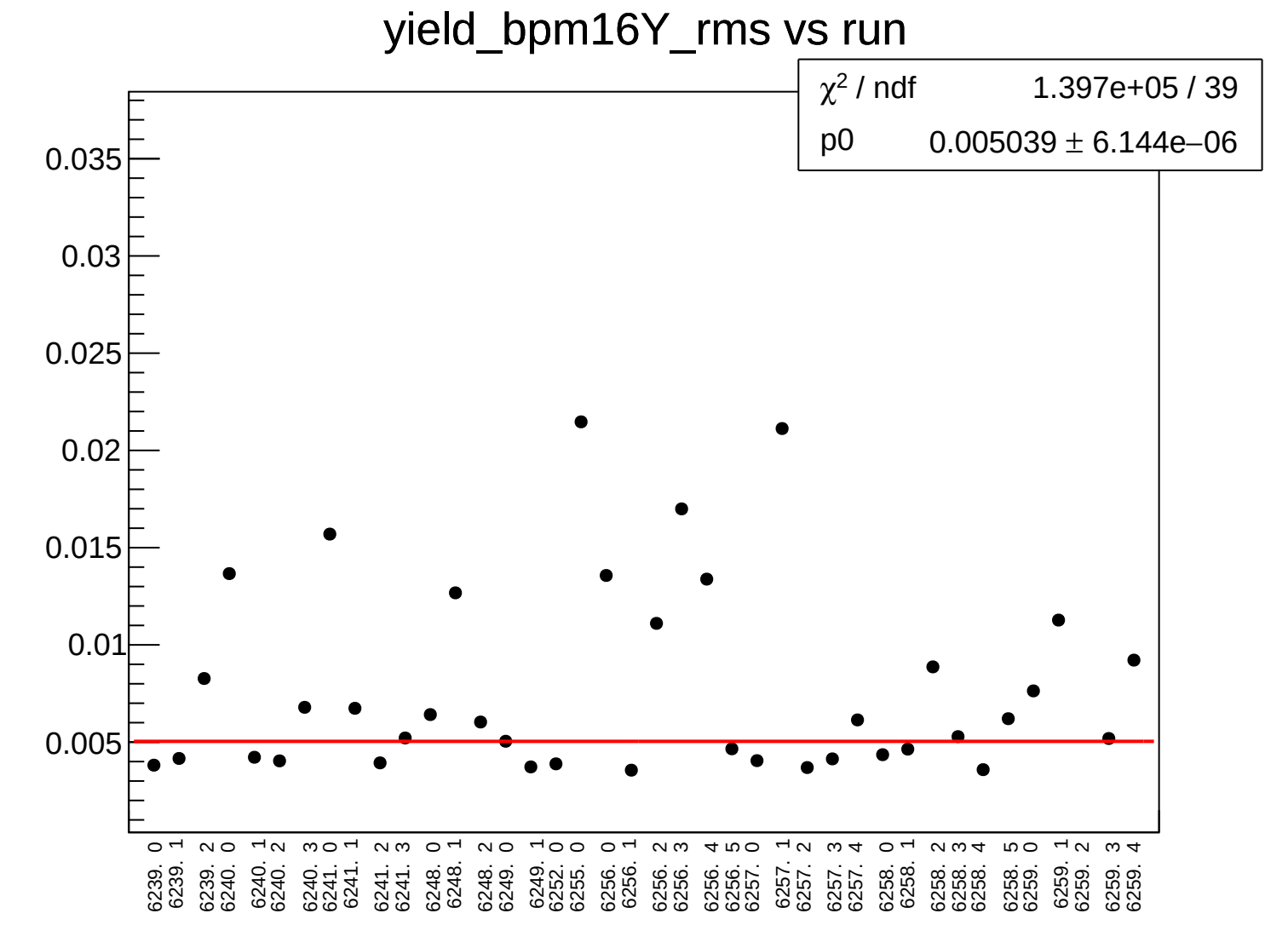
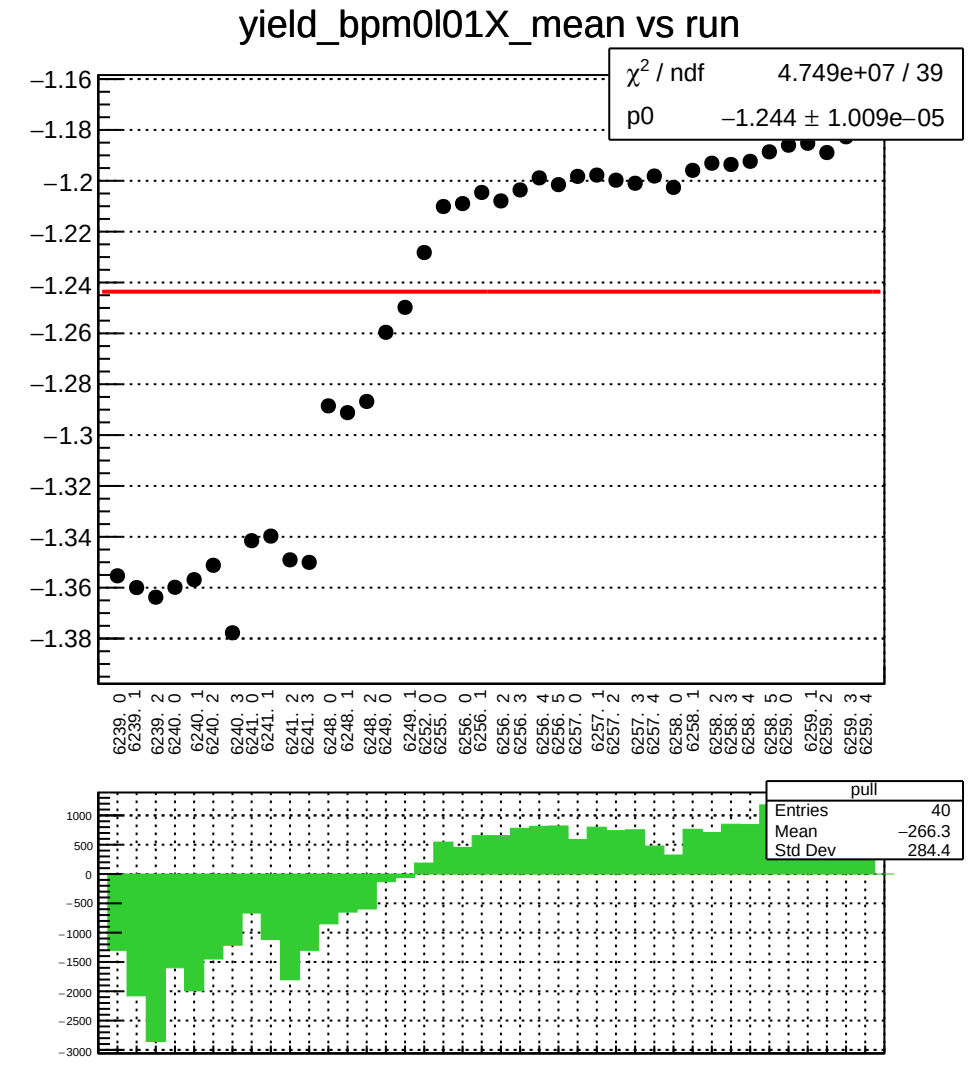
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

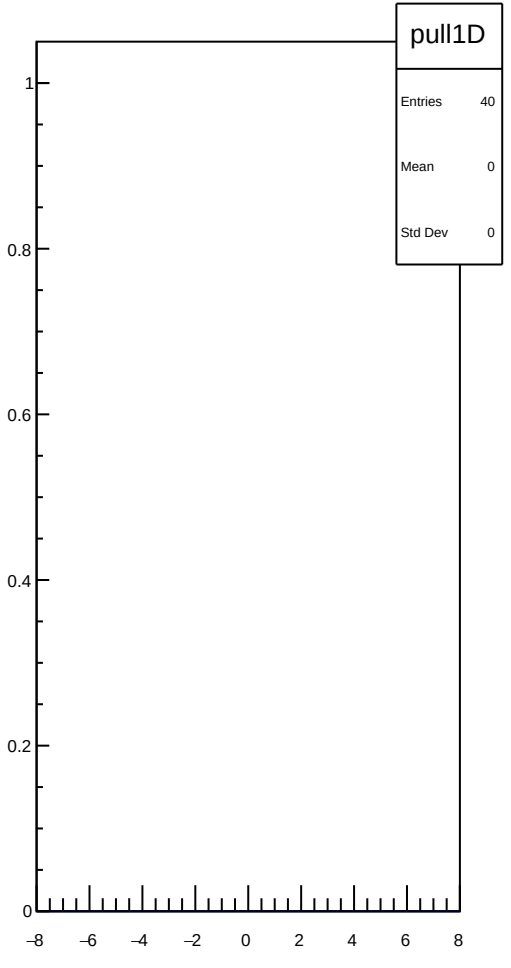

yield_bpm16X_mean vs run
χ² / ndf 6.468e+04 / 39
p0 −0.4344 ± 2.61e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 77.24
Std Dev 60.96
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 40
Mean 1.088
Std Dev 3.439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

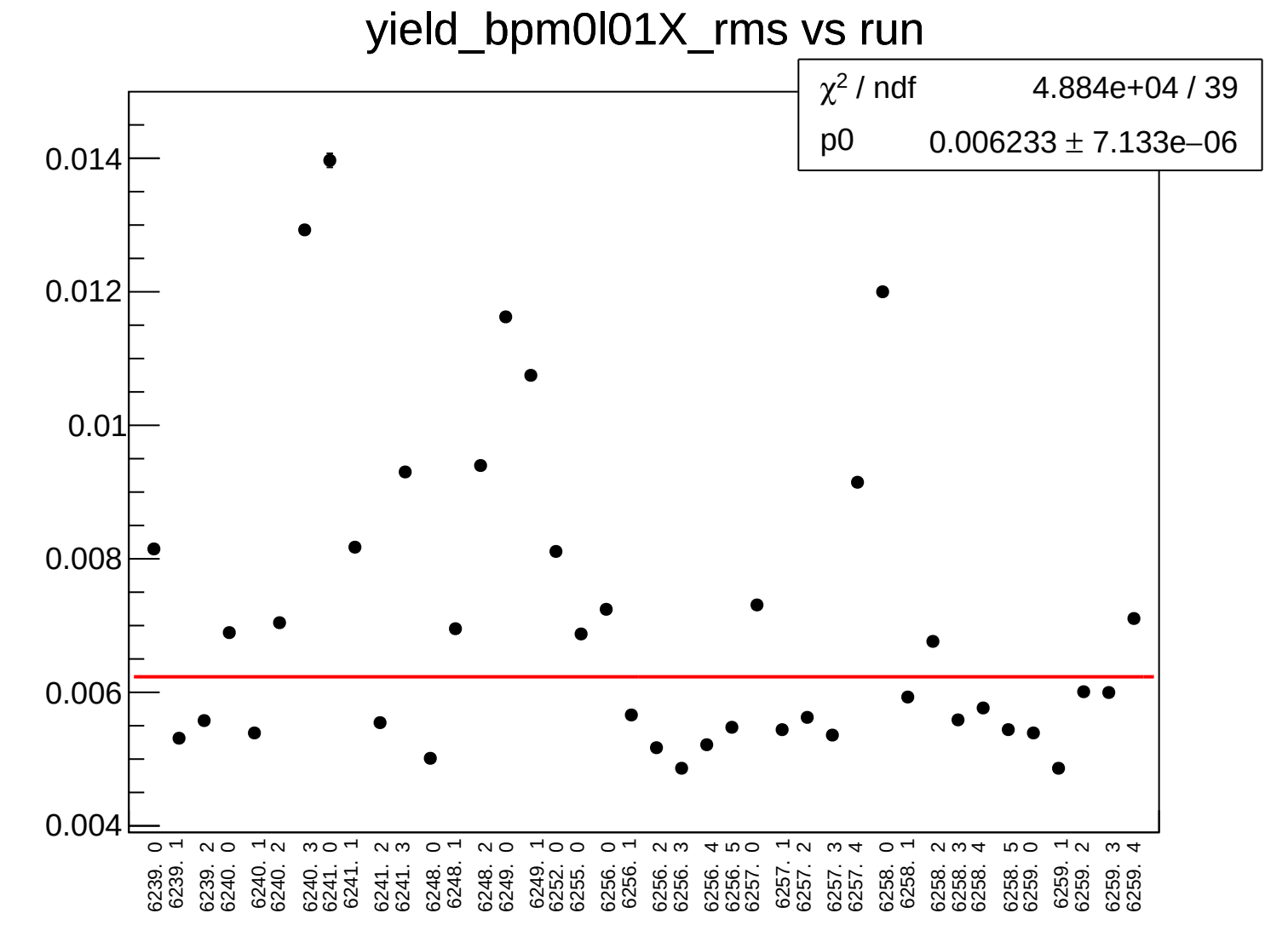

yield_bpm16X_rms vs run
χ² / ndf 1.884e+05 / 39
p0 0.01458 ± 1.846e–05
0.1
0.08
0.06
0.04
0.02
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

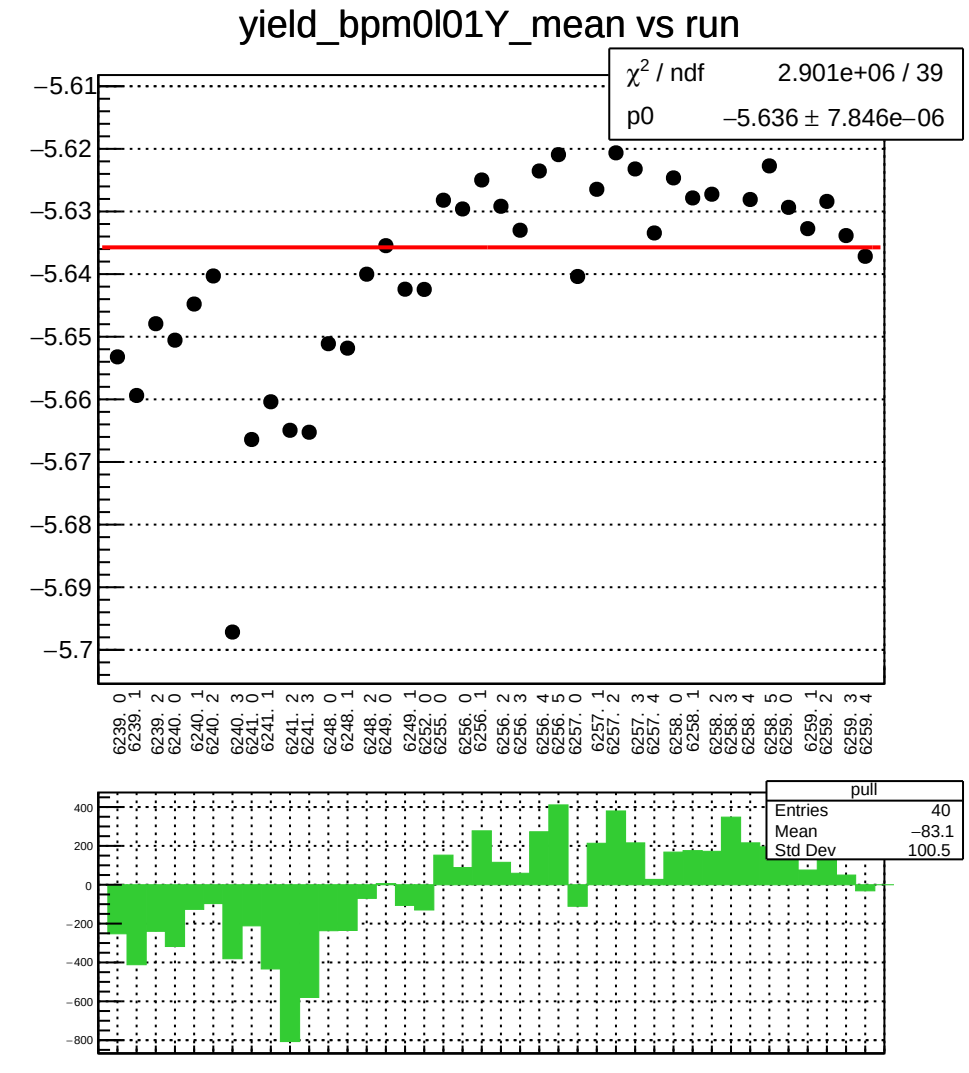

yield_bpm16Y_mean vs run
χ² / ndf 4.784e+04 / 39
p0 −0.229 ± 8.689e−06
−0.2
−0.21
−0.22
−0.23
−0.24
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −193.6
Std Dev 210.9
80
60
40
20
0
−20
−40
−60
pull1D
Entries 40
Mean 1.933
Std Dev 4.016
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

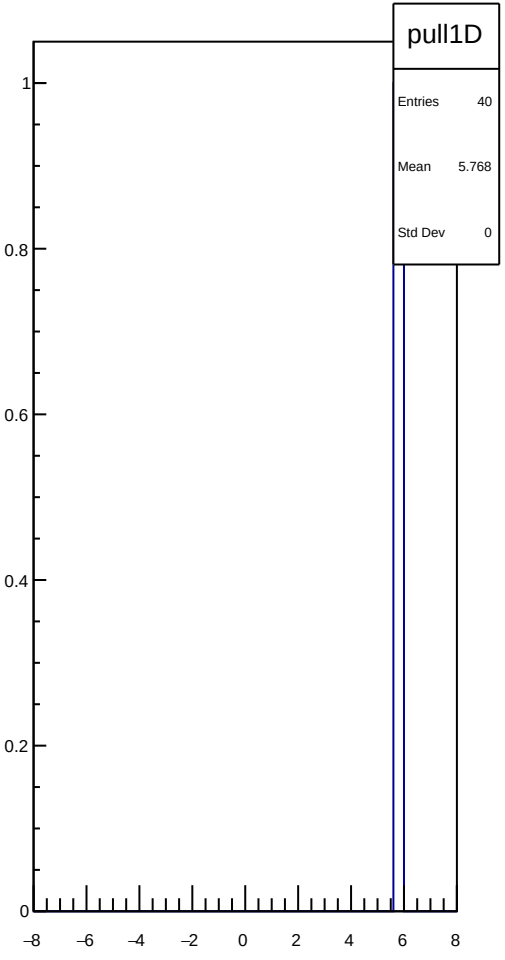

yield_bpm16Y_rms vs run
χ² / ndf 1.397e+05 / 39
p0 0.005039 ± 6.144e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

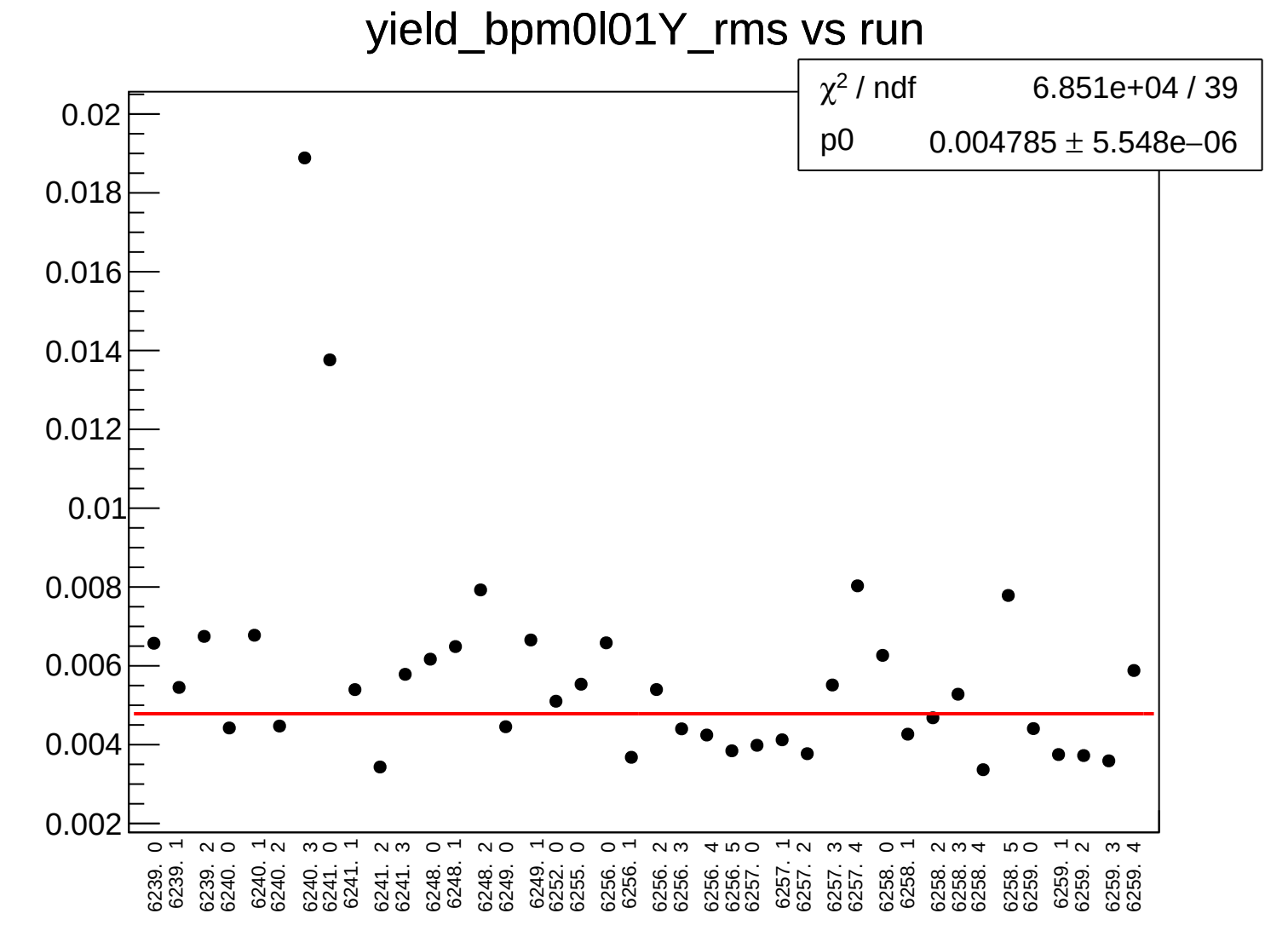

yield_bpm0l01X_mean vs run
χ² / ndf 4.749e+07 / 39
p0 −1.244 ± 1.009e−05
pull
Entries 40
Mean −266.3
Std Dev 284.4

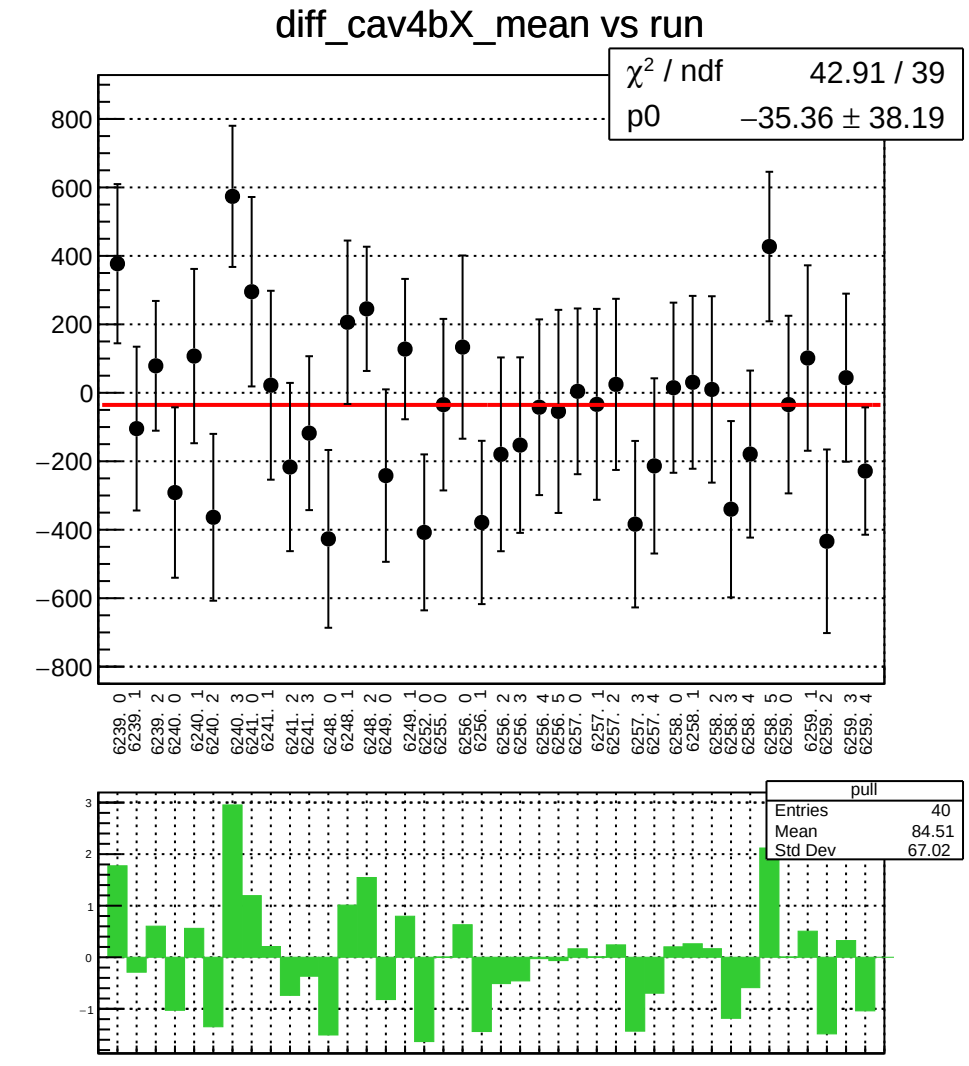

pull1D
Entries 40
Mean 0
Std Dev 0

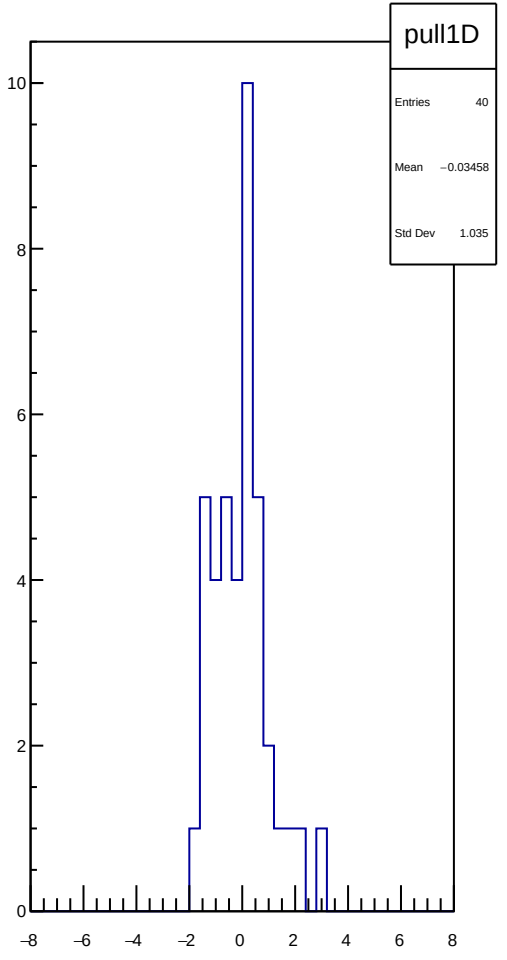

yield_bpm0l01X_rms vs run
χ² / ndf 4.884e+04 / 39
p0 0.006233 ± 7.133e−06
0.014
0.012
0.01
0.008
0.006
0.004
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

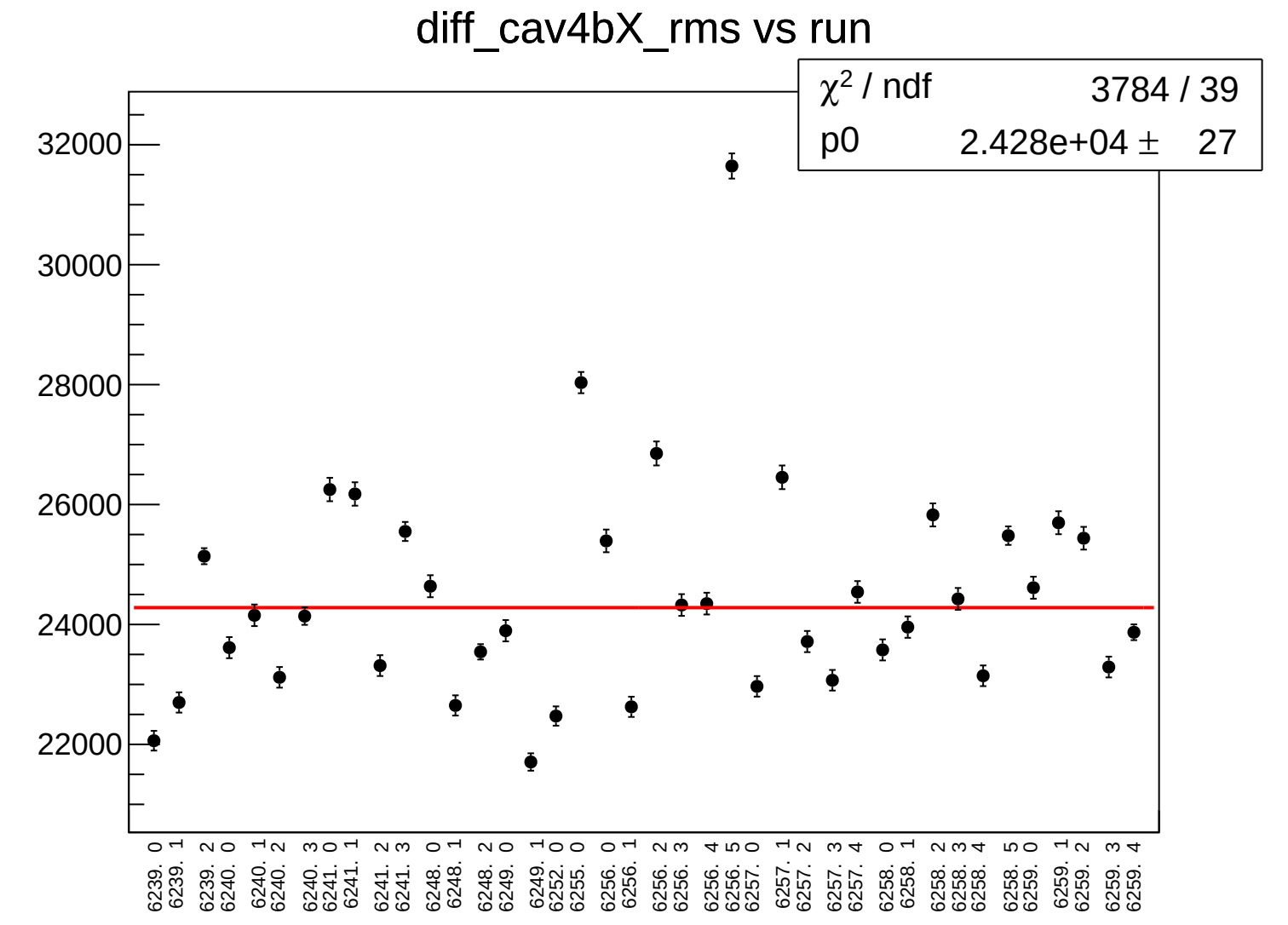

yield_bpm0l01Y_mean vs run
χ² / ndf 2.901e+06 / 39
p0 −5.636 ± 7.846e−06
−5.61
−5.62
−5.63
−5.64
−5.65
−5.66
−5.67
−5.68
−5.69
−5.7
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −83.1
Std Dev 100.5
400
200
0
−200
−400
−600
−800

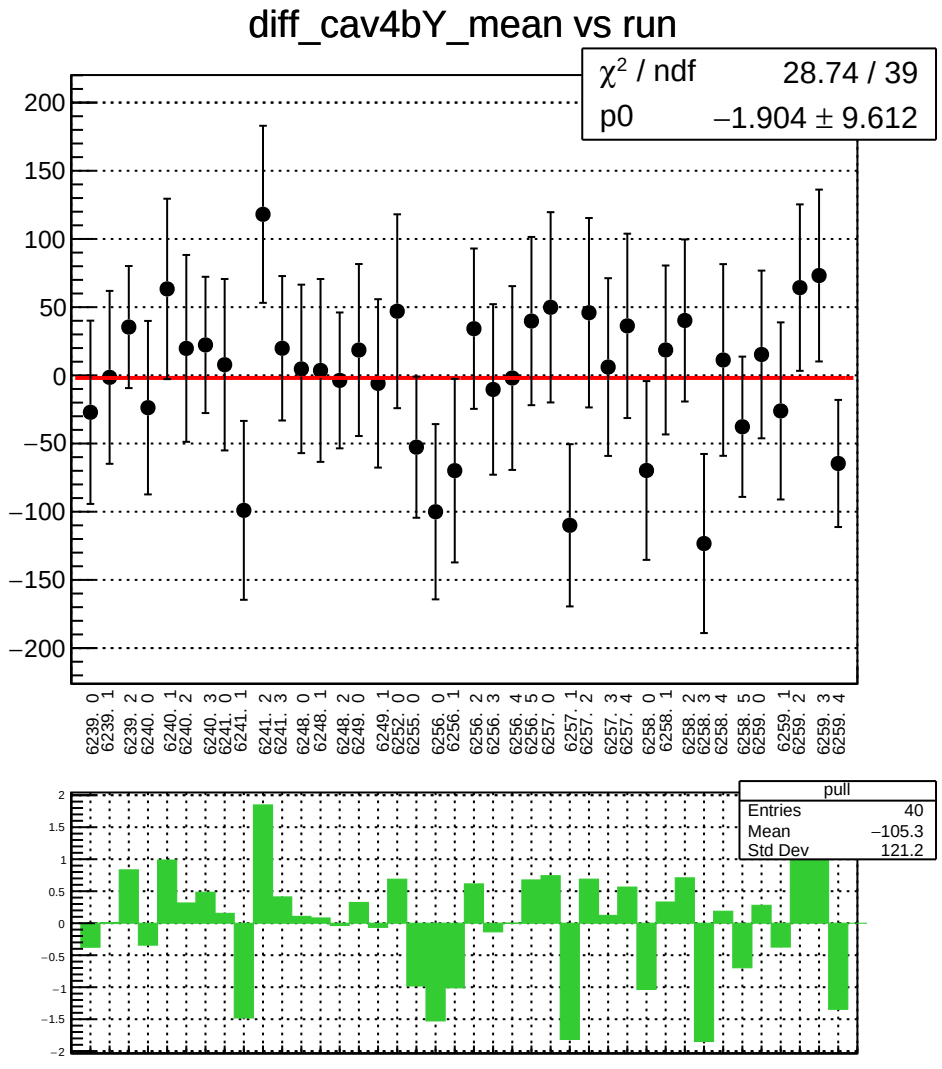

pull1D
Entries 40
Mean 5.768
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

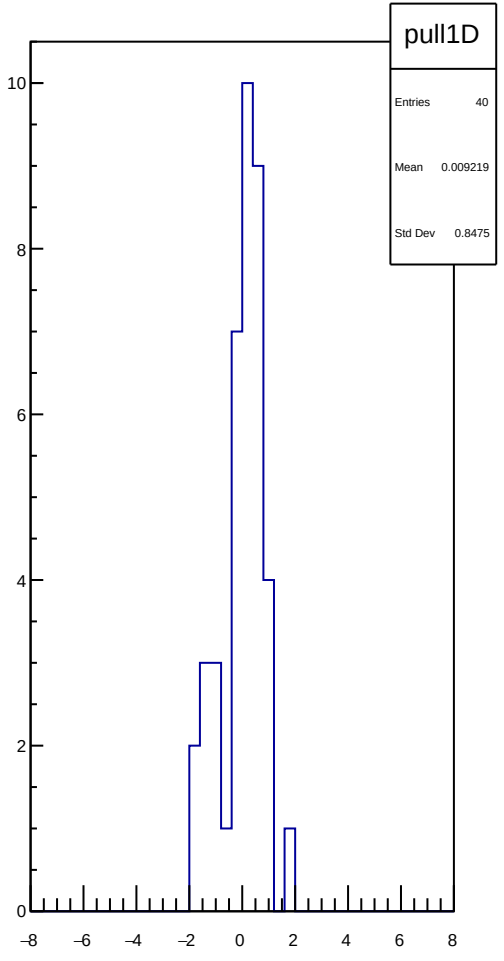

yield_bpm0l01Y_rms vs run
χ² / ndf 6.851e+04 / 39
p0 0.004785 ± 5.548e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

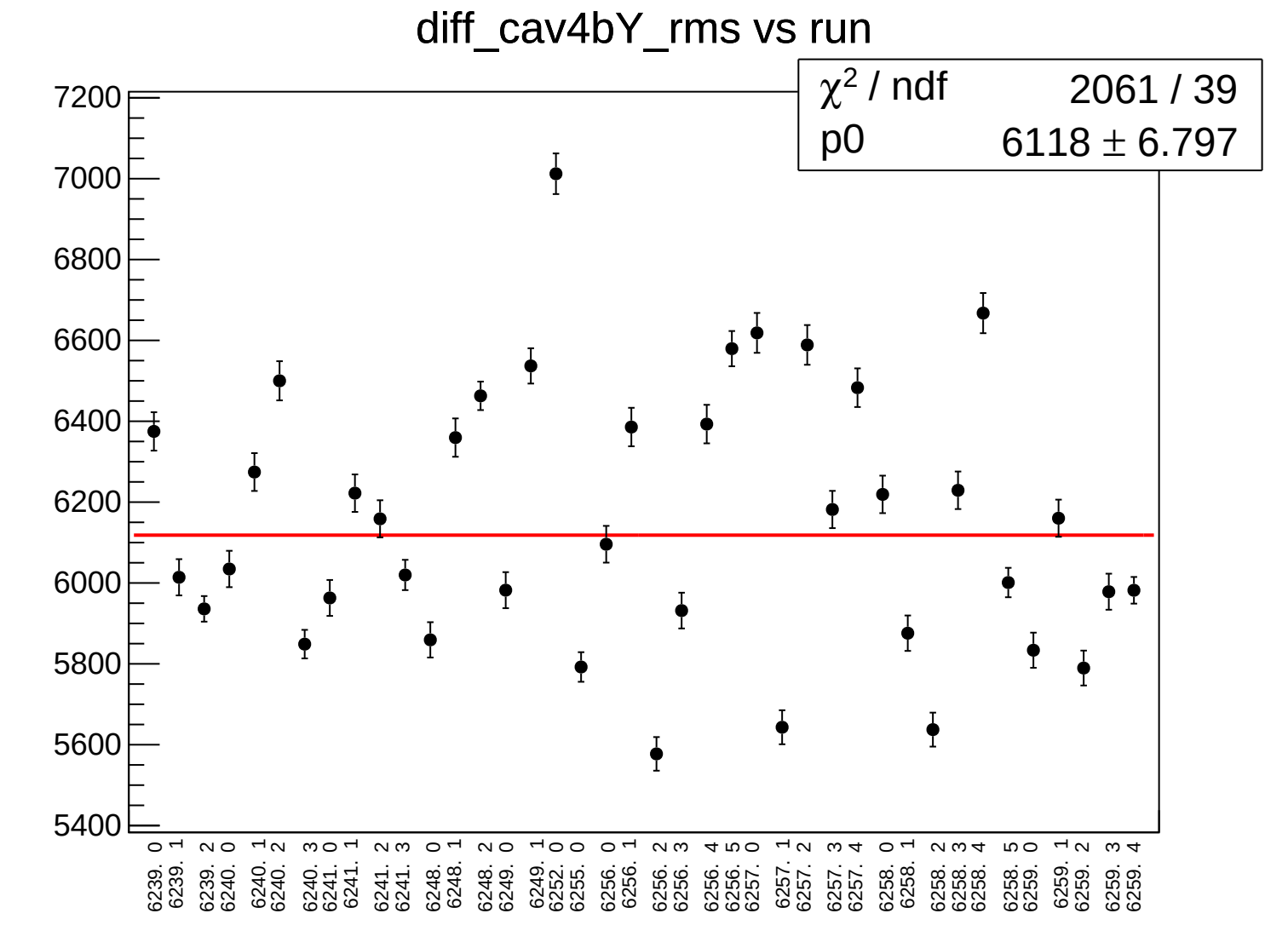

diff_cav4bX_mean vs run
χ² / ndf 42.91 / 39
p0 −35.36 ± 38.19
800
600
400
200
0
−200
−400
−600
−800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 84.51
Std Dev 67.02
3
2
1
0
−1

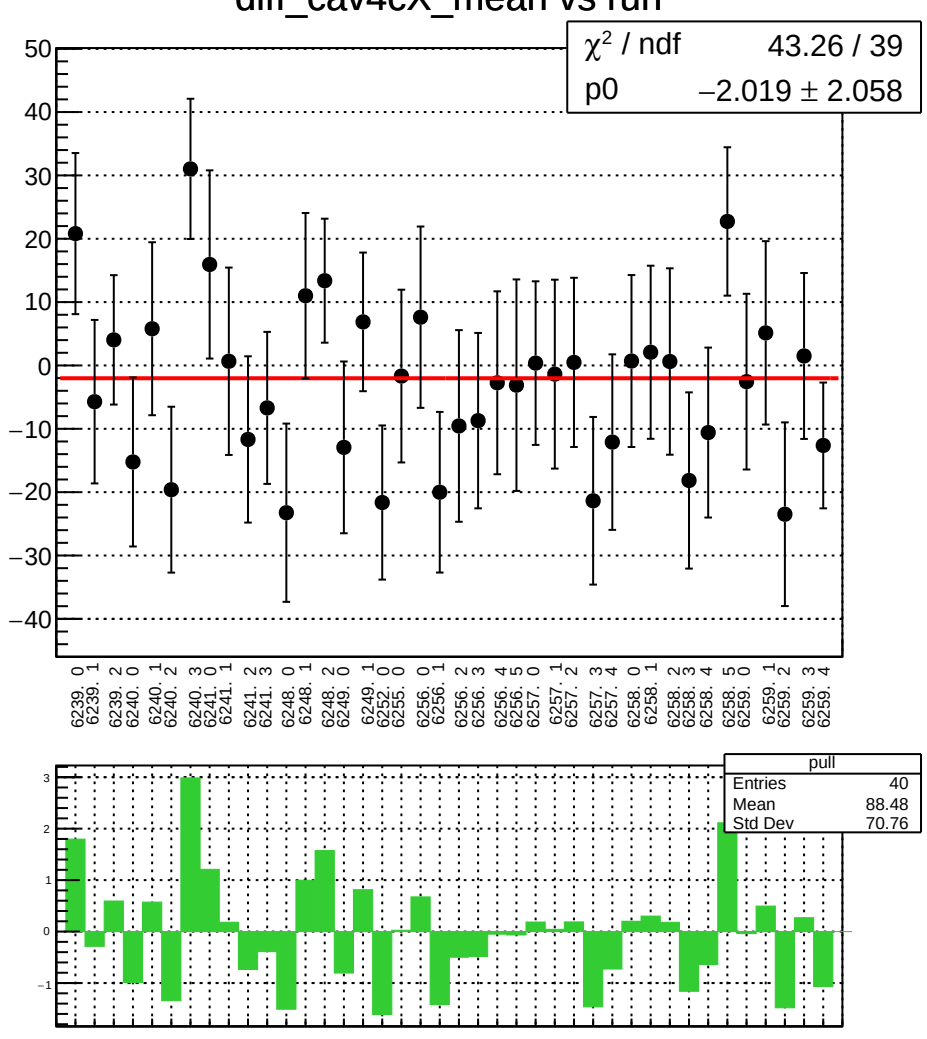

pull1D
Entries 40
Mean −0.03458
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

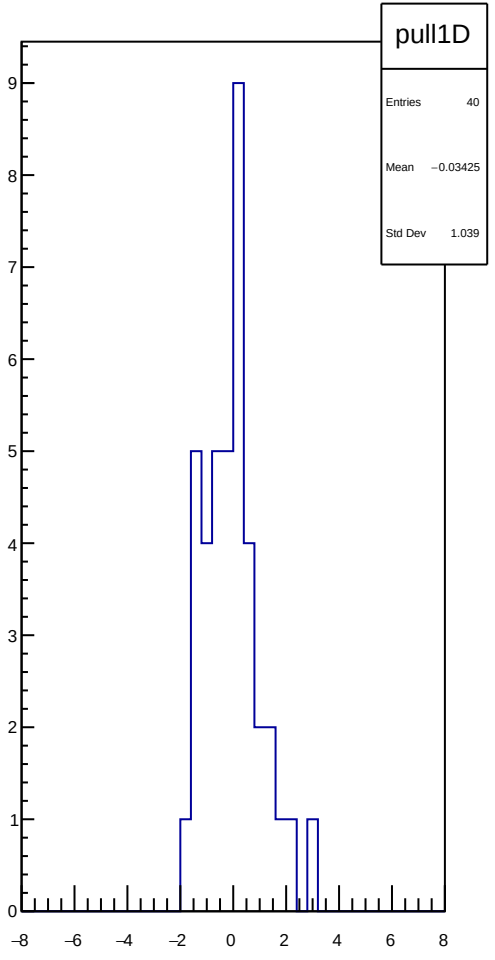

diff_cav4bX_rms vs run
χ² / ndf 3784 / 39
p0 2.428e+04 ± 27
32000
30000
28000
26000
24000
22000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

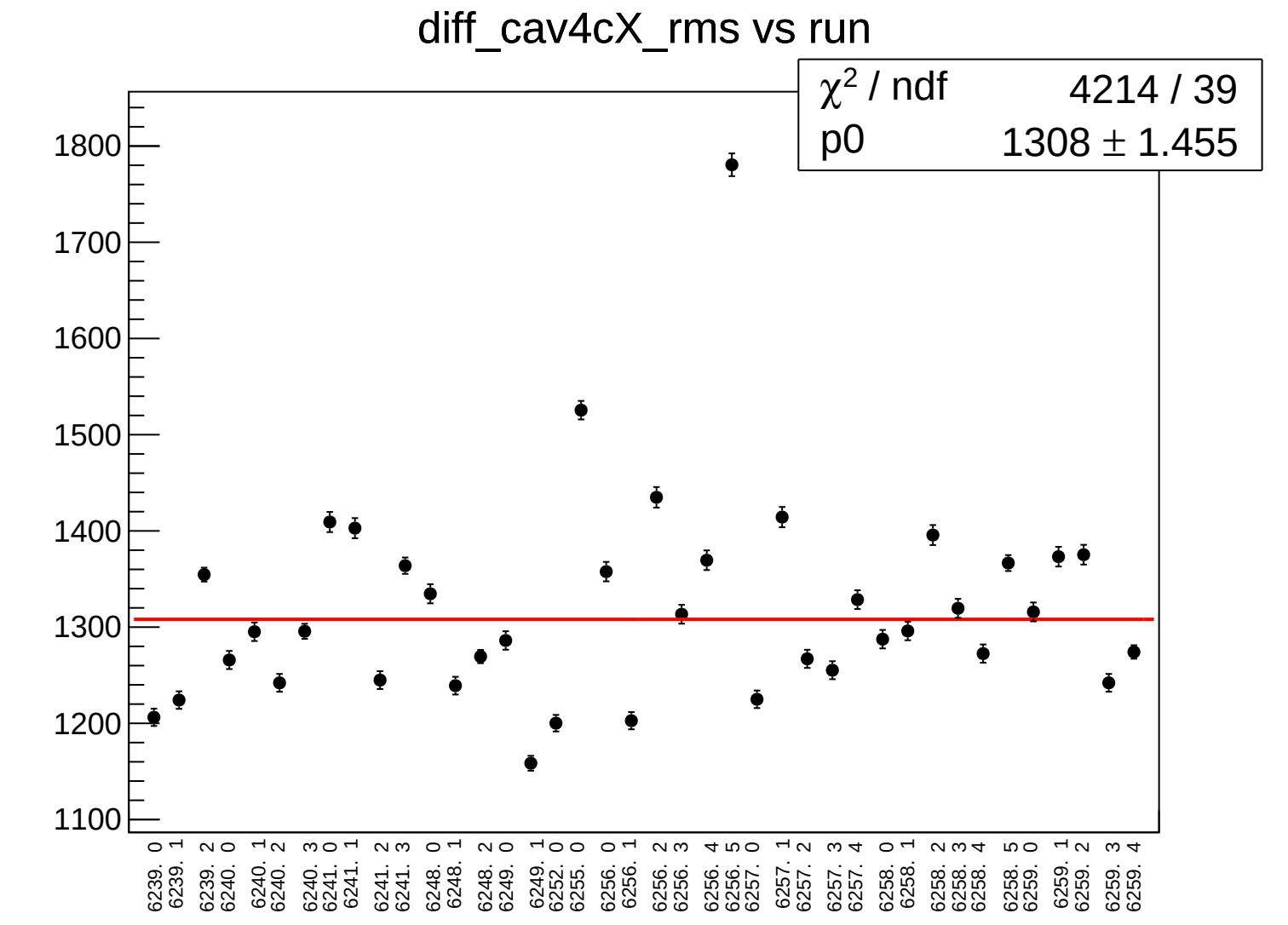

diff_cav4bY_mean vs run
χ² / ndf 28.74 / 39
p0 −1.904 ± 9.612
pull
Entries 40
Mean −105.3
Std Dev 121.2

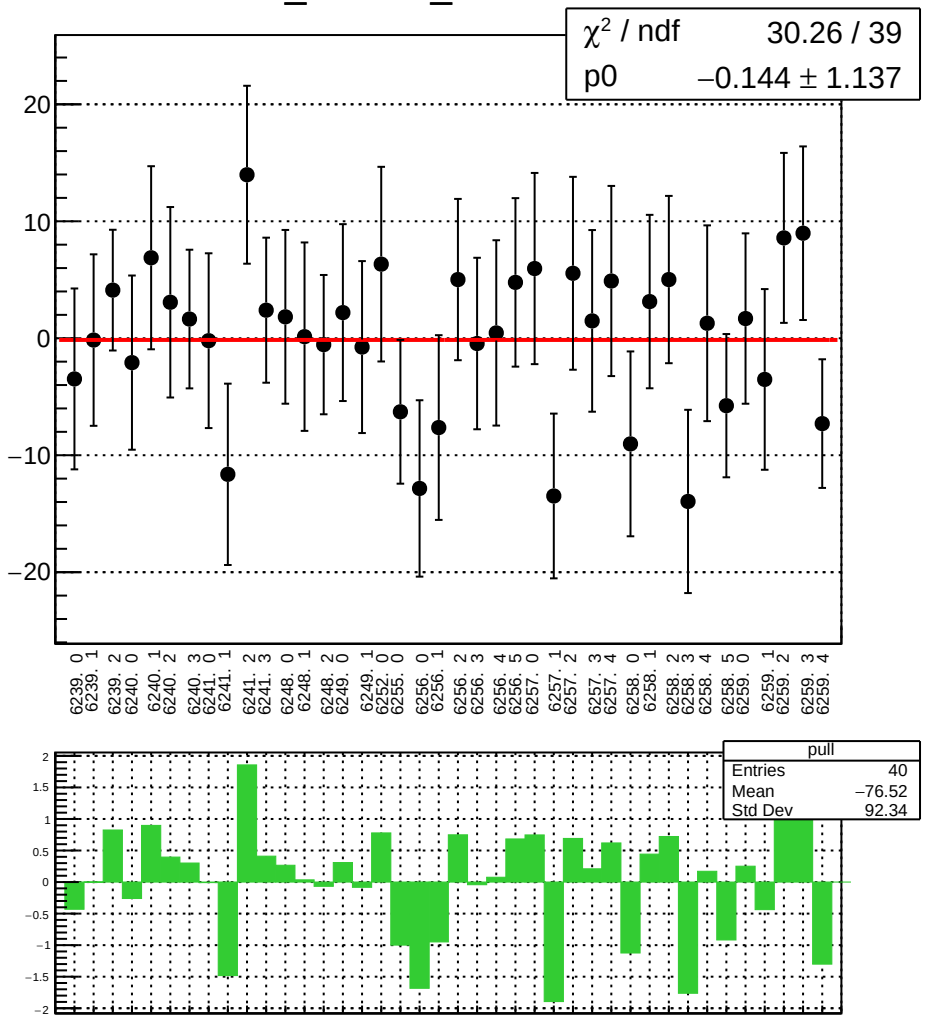

pull1D
Entries 40
Mean 0.009219
Std Dev 0.8475

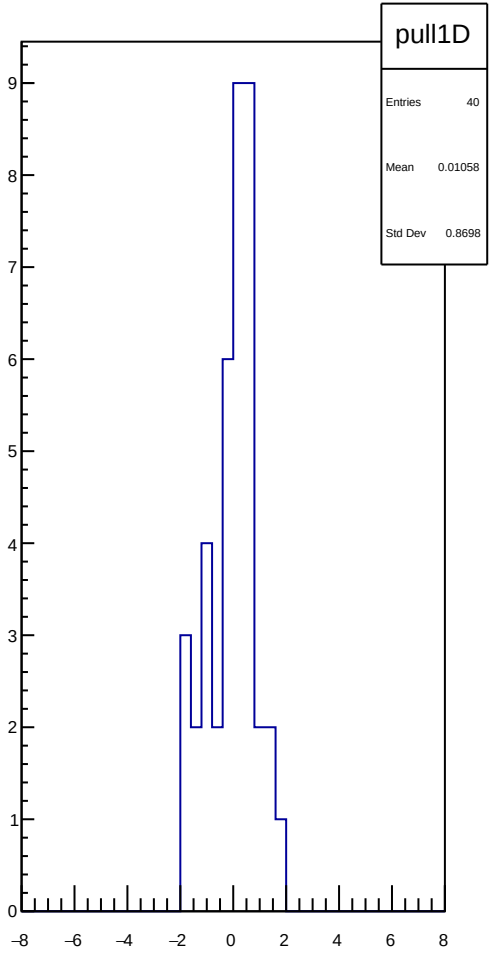

diff_cav4bY_rms vs run
χ² / ndf 2061 / 39
p0 6118 ± 6.797
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

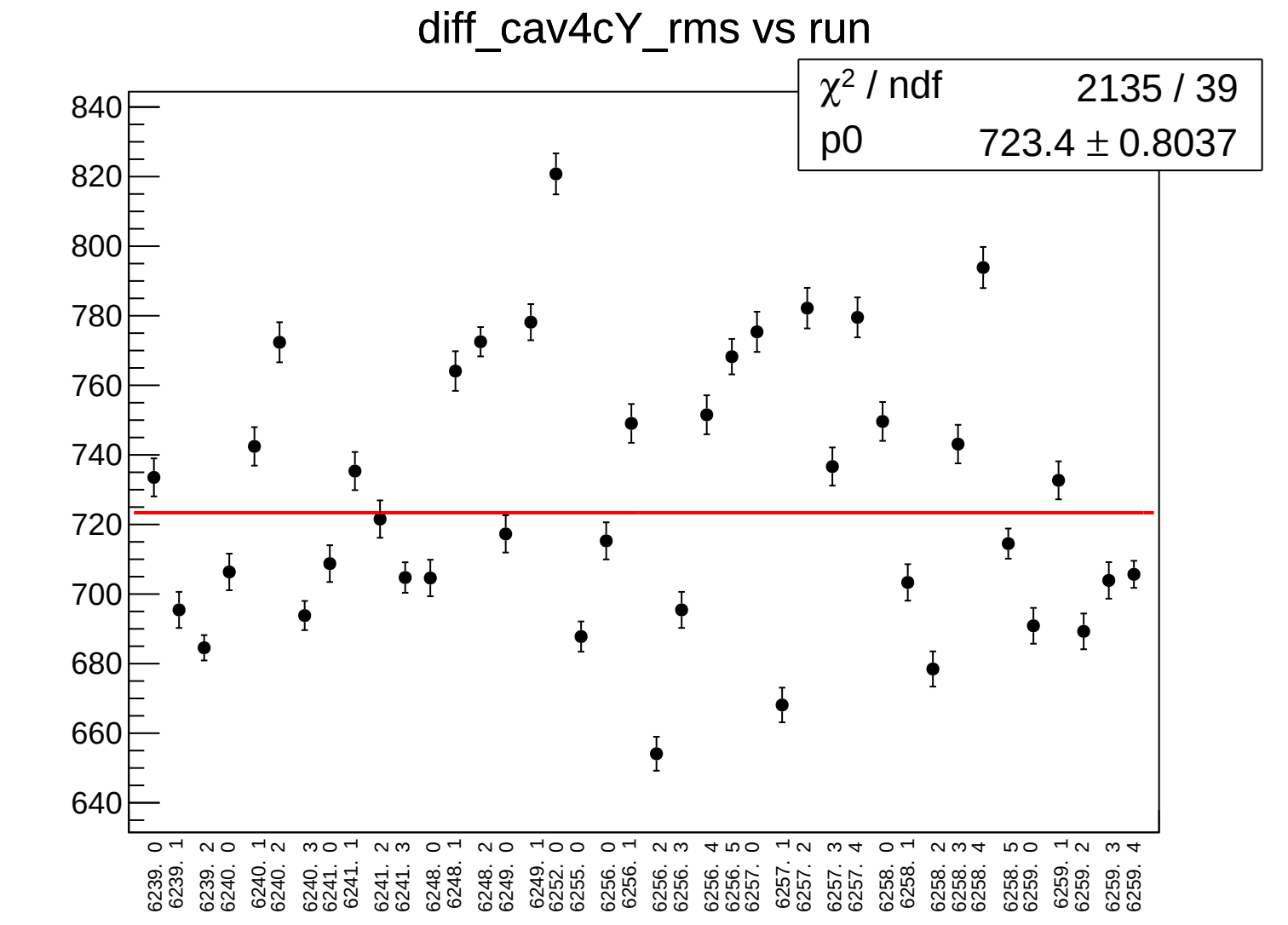

diff_cav4cX_mean vs run
χ² / ndf 43.26 / 39
p0 −2.019 ± 2.058
pull
Entries 40
Mean 88.48
Std Dev 70.76

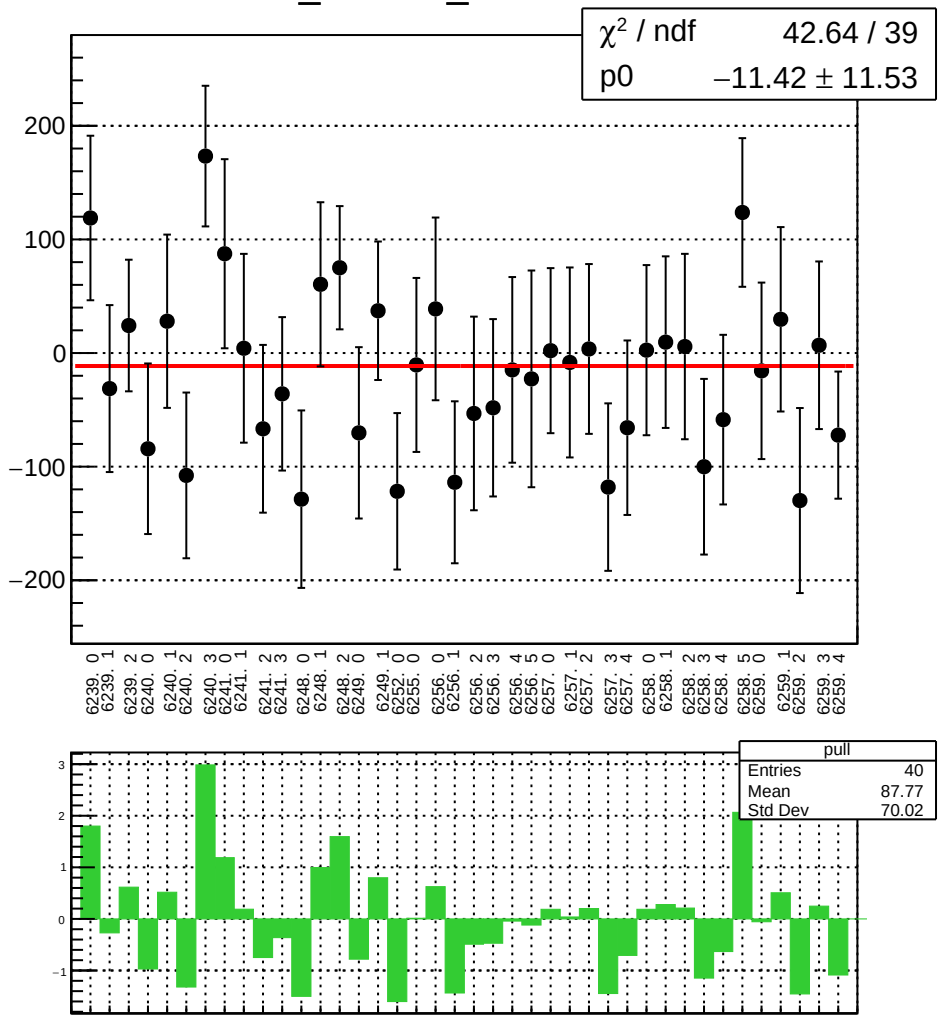

pull1D
Entries 40
Mean −0.03425
Std Dev 1.039

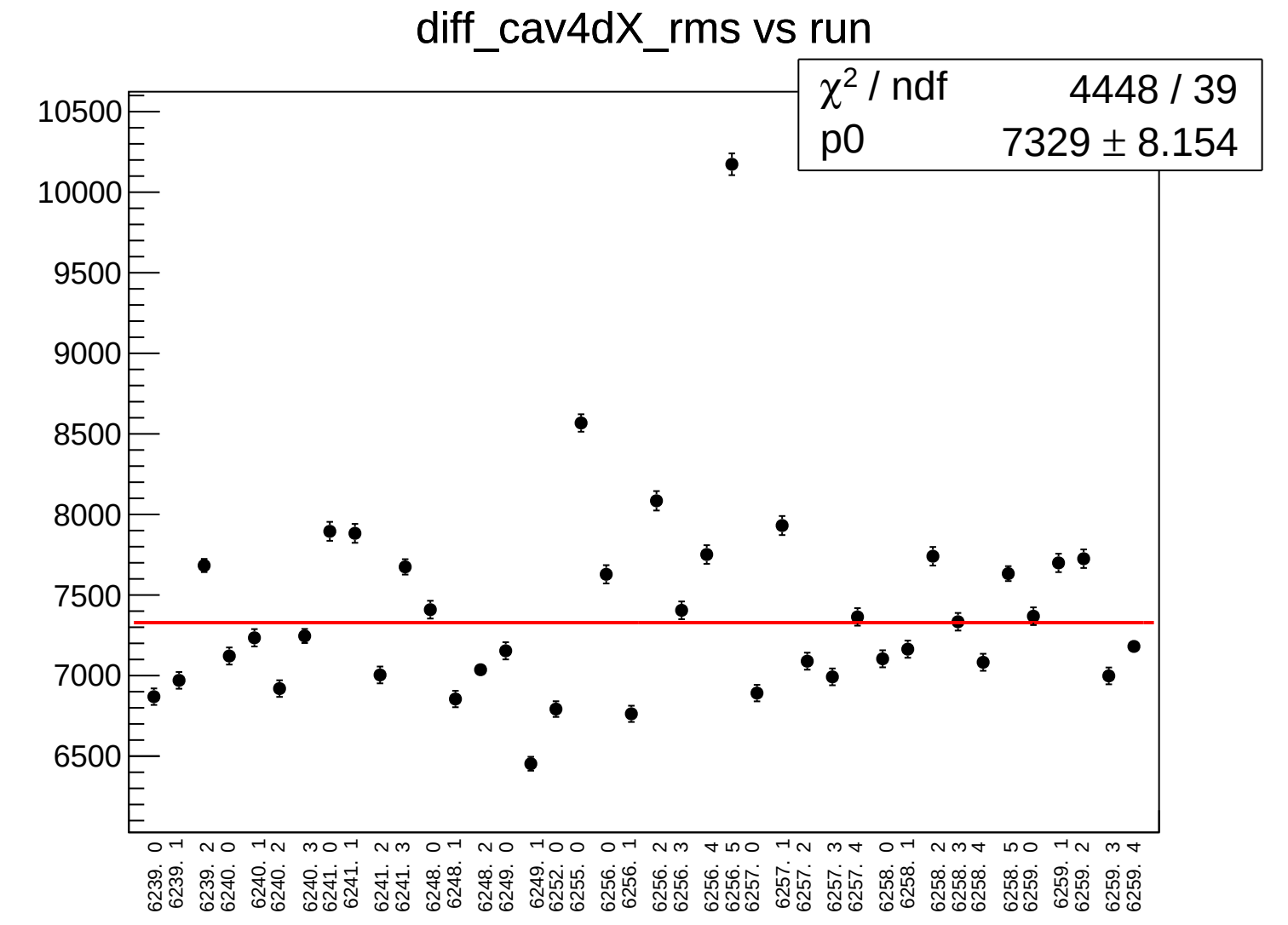

diff_cav4cX_rms vs run
χ² / ndf 4214 / 39
p0 1308 ± 1.455
1800
1700
1600
1500
1400
1300
1200
1100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


diff_cav4cY_mean vs run
χ² / ndf 30.26 / 39
p0 −0.144 ± 1.137
pull
Entries 40
Mean −76.52
Std Dev 92.34


pull1D
Entries 40
Mean 0.01058
Std Dev 0.8698


diff_cav4cY_rms vs run
χ² / ndf 2135 / 39
p0 723.4 ± 0.8037
840
820
800
780
760
740
720
700
680
660
640
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


diff_cav4dX_mean vs run
χ² / ndf 42.64 / 39
p0 −11.42 ± 11.53
200
100
0
−100
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 87.77
Std Dev 70.02
3
2
1
0
−1
pull1D
Entries 40
Mean −0.03507
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4dX_rms vs run
χ² / ndf 4448 / 39
p0 7329 ± 8.154
10500
10000
9500
9000
8500
8000
7500
7000
6500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
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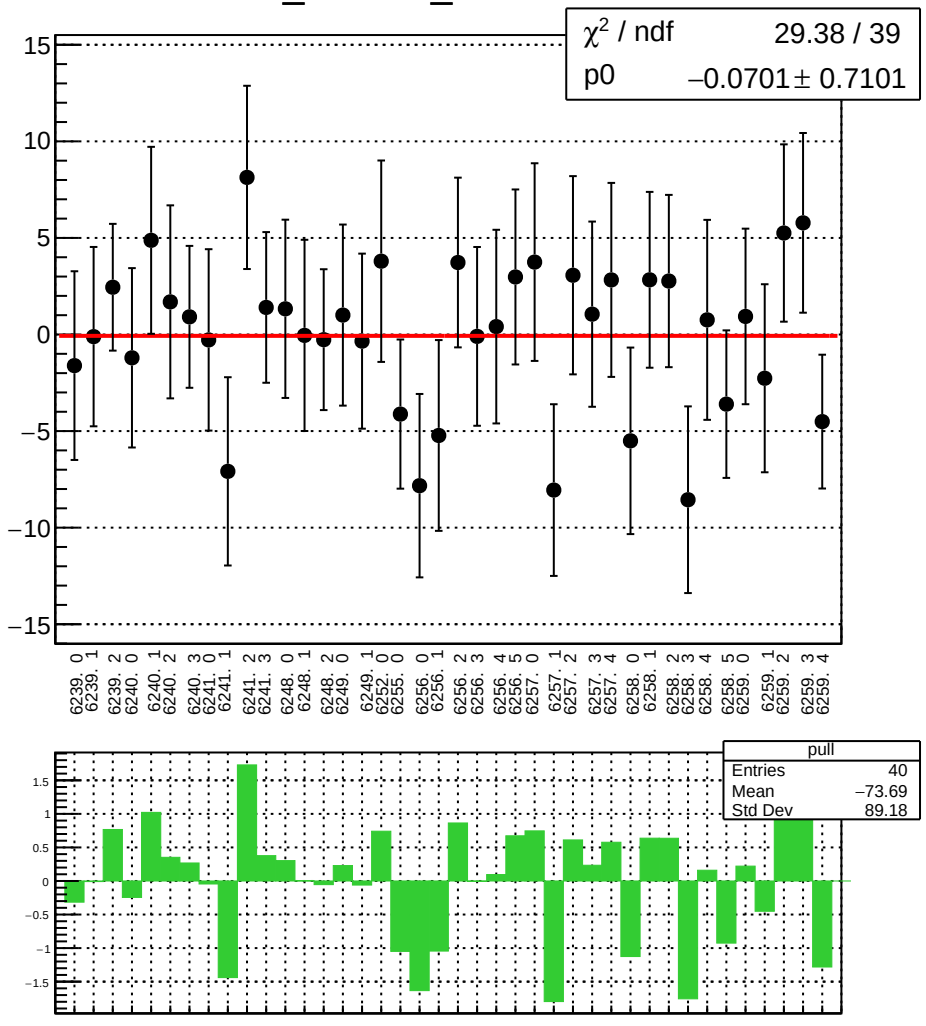
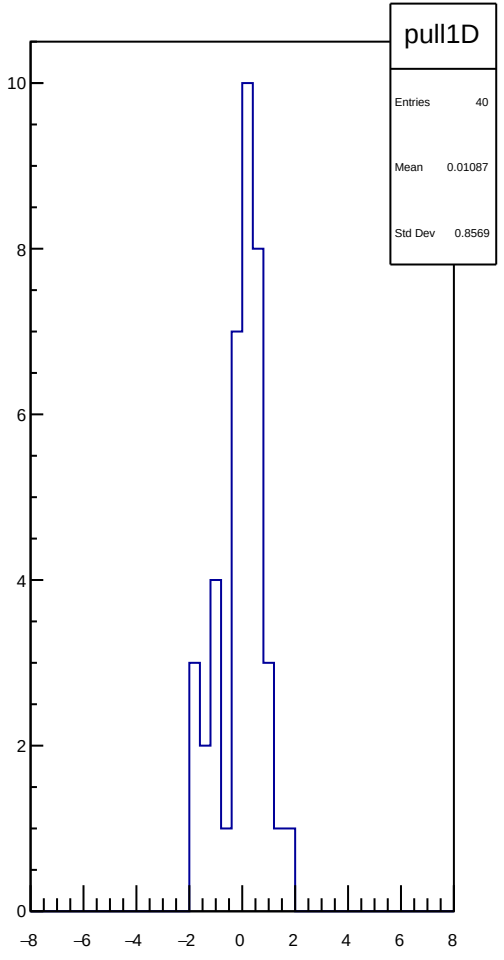
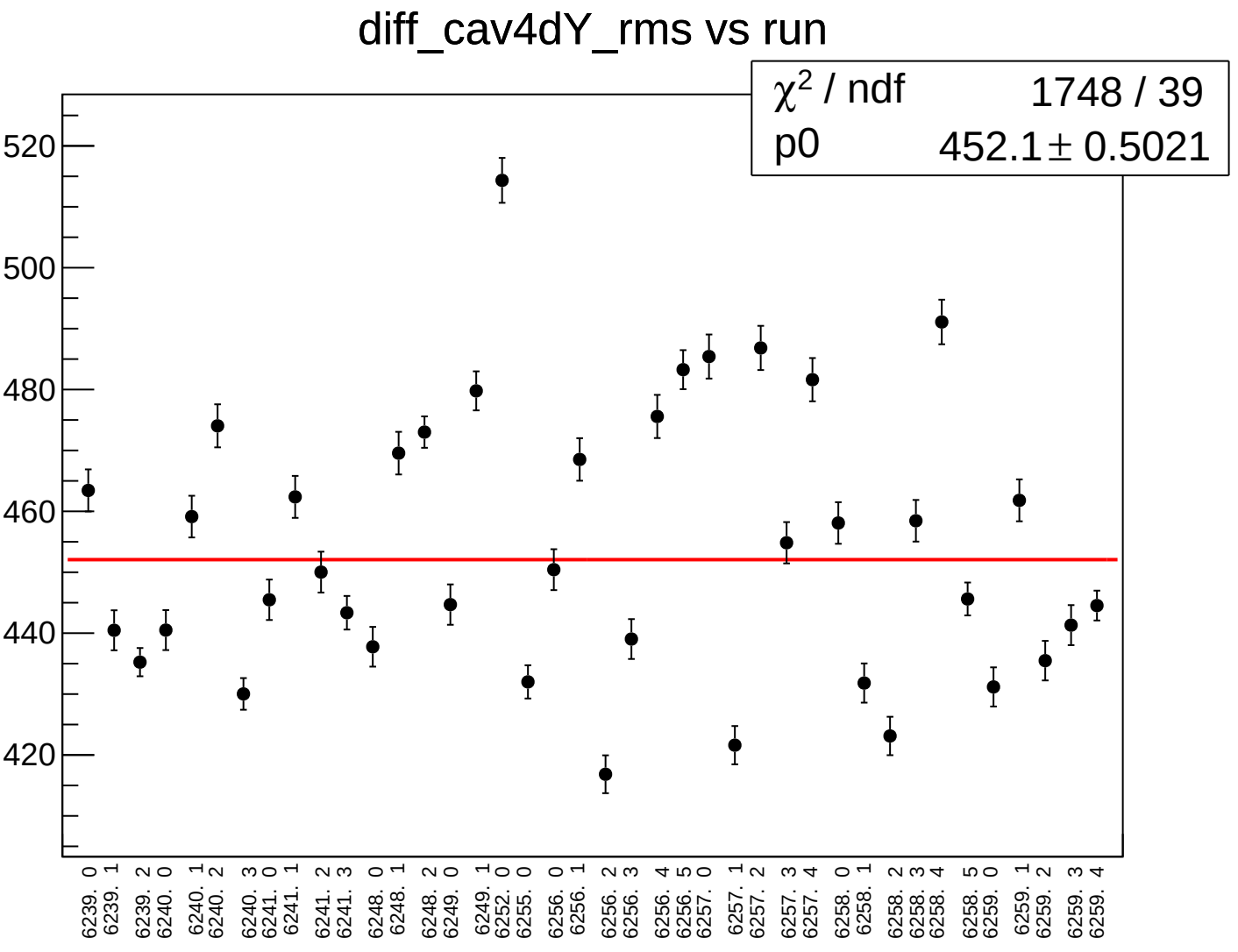
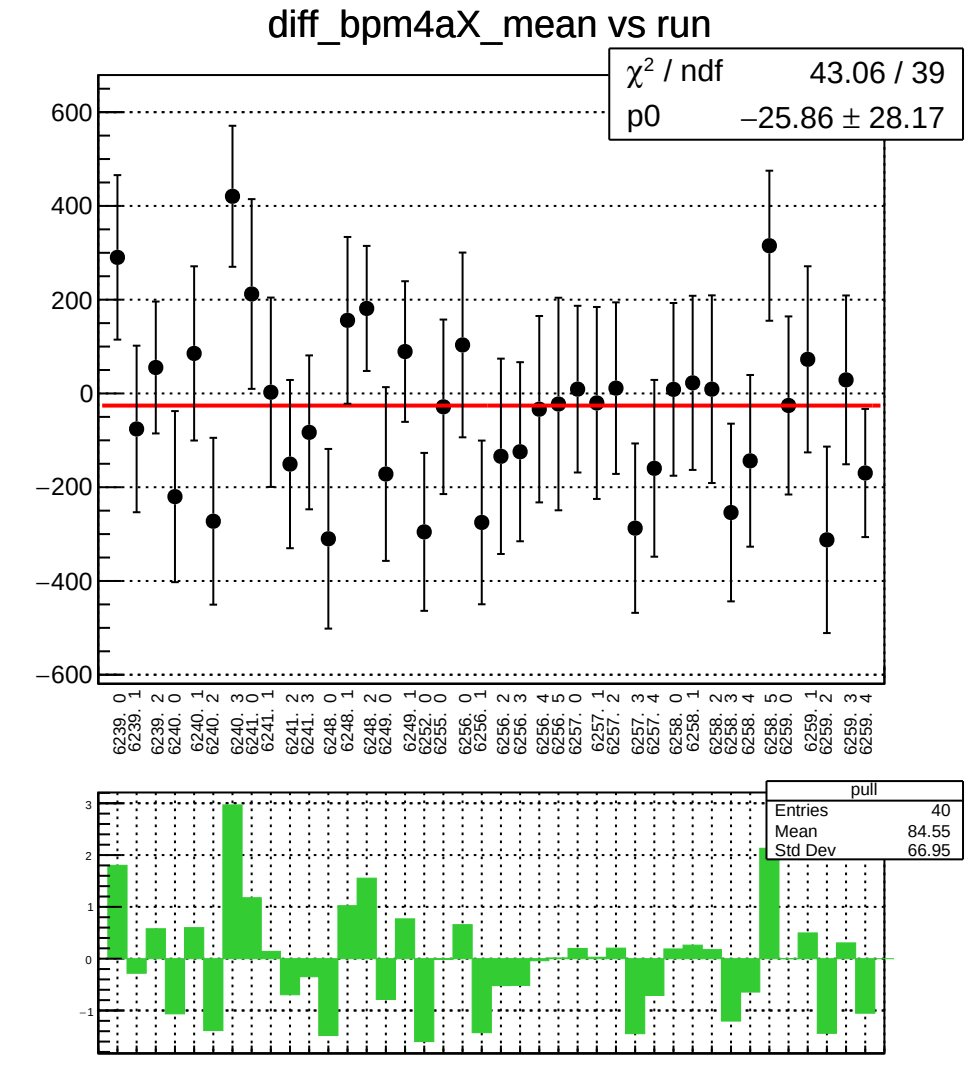
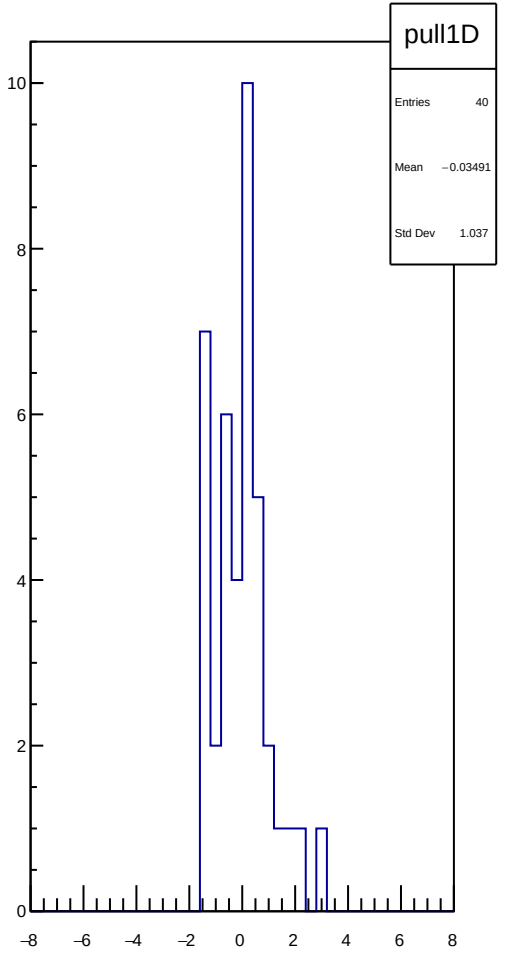
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

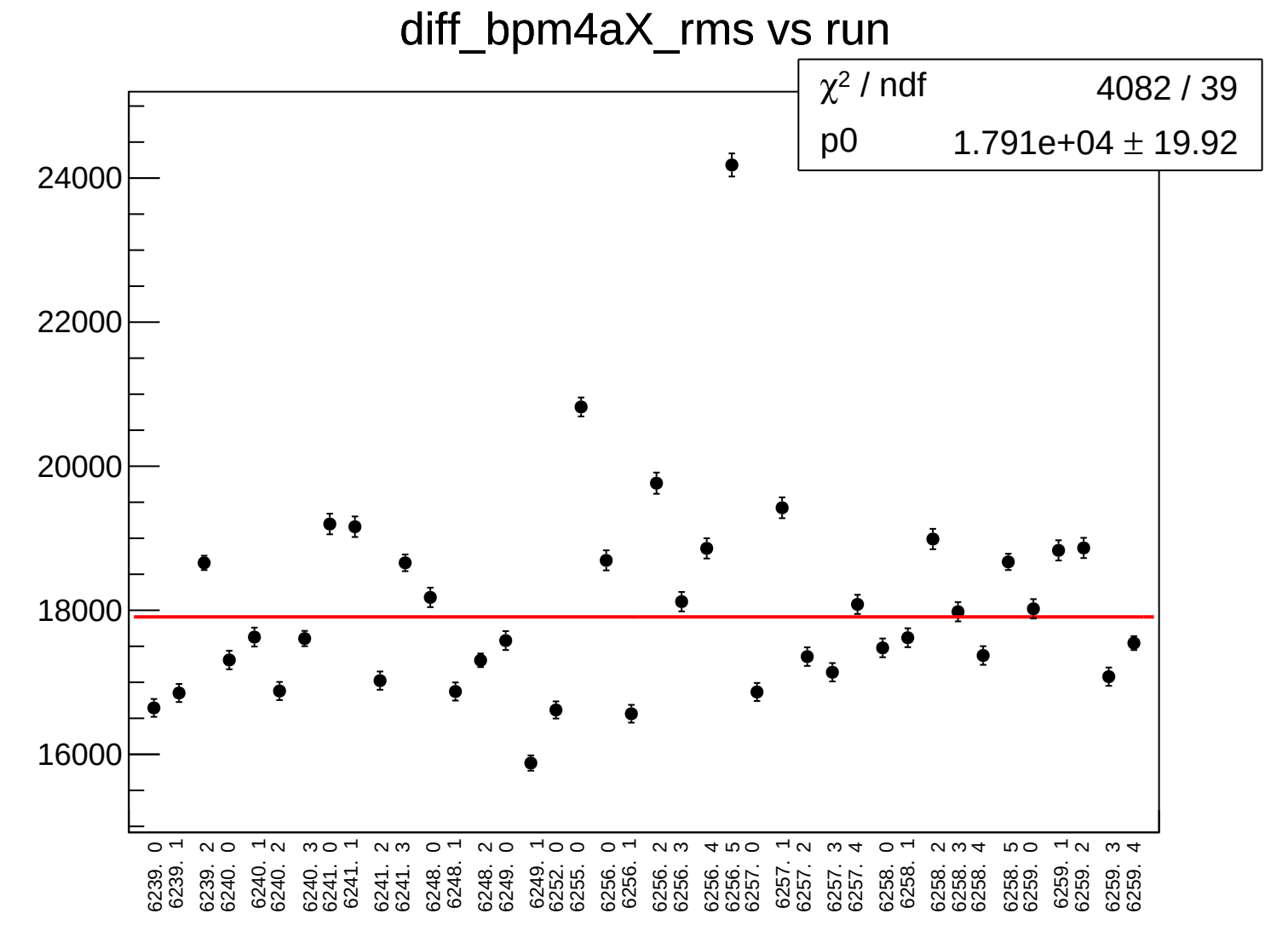

diff_cav4dY_mean vs run
χ² / ndf 29.38 / 39
p0 −0.0701 ± 0.7101
pull
Entries 40
Mean −73.69
Std Dev 89.18

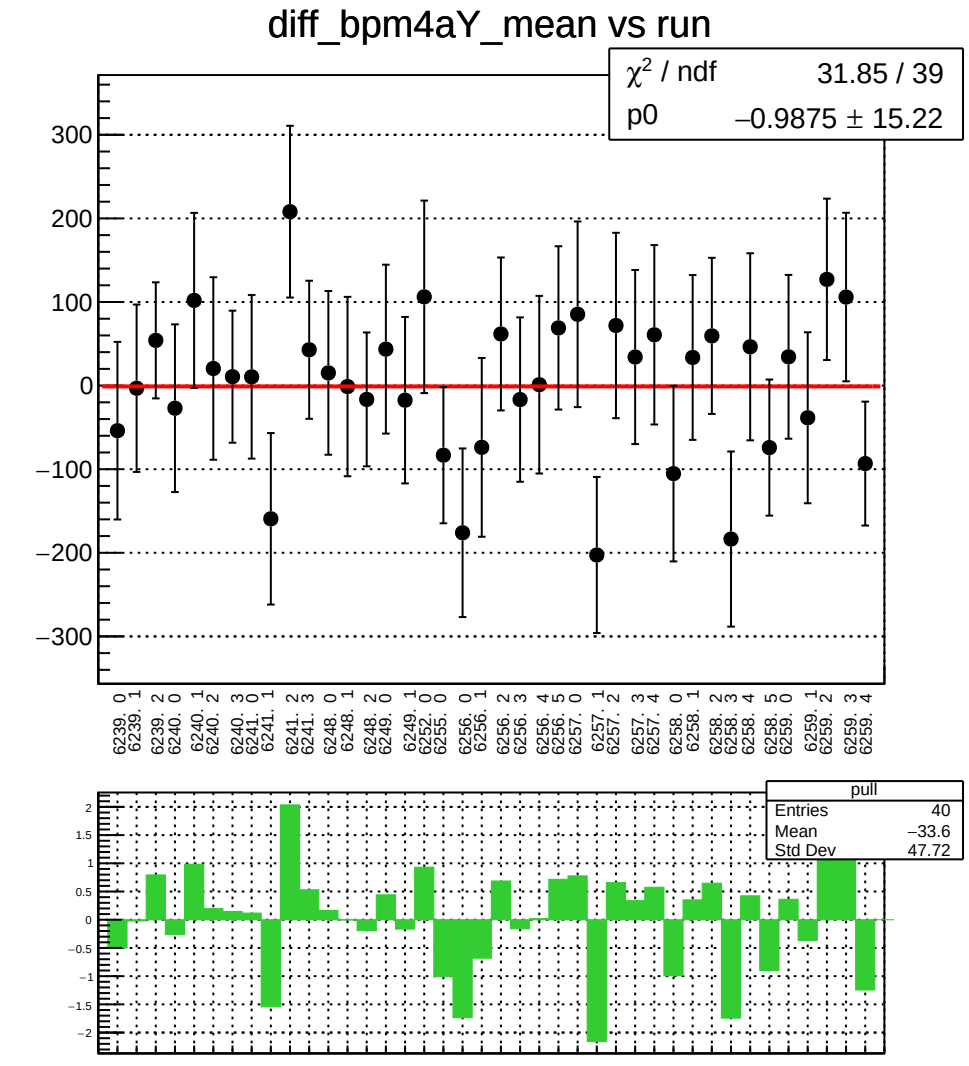

pull1D
Entries 40
Mean 0.01087
Std Dev 0.8569

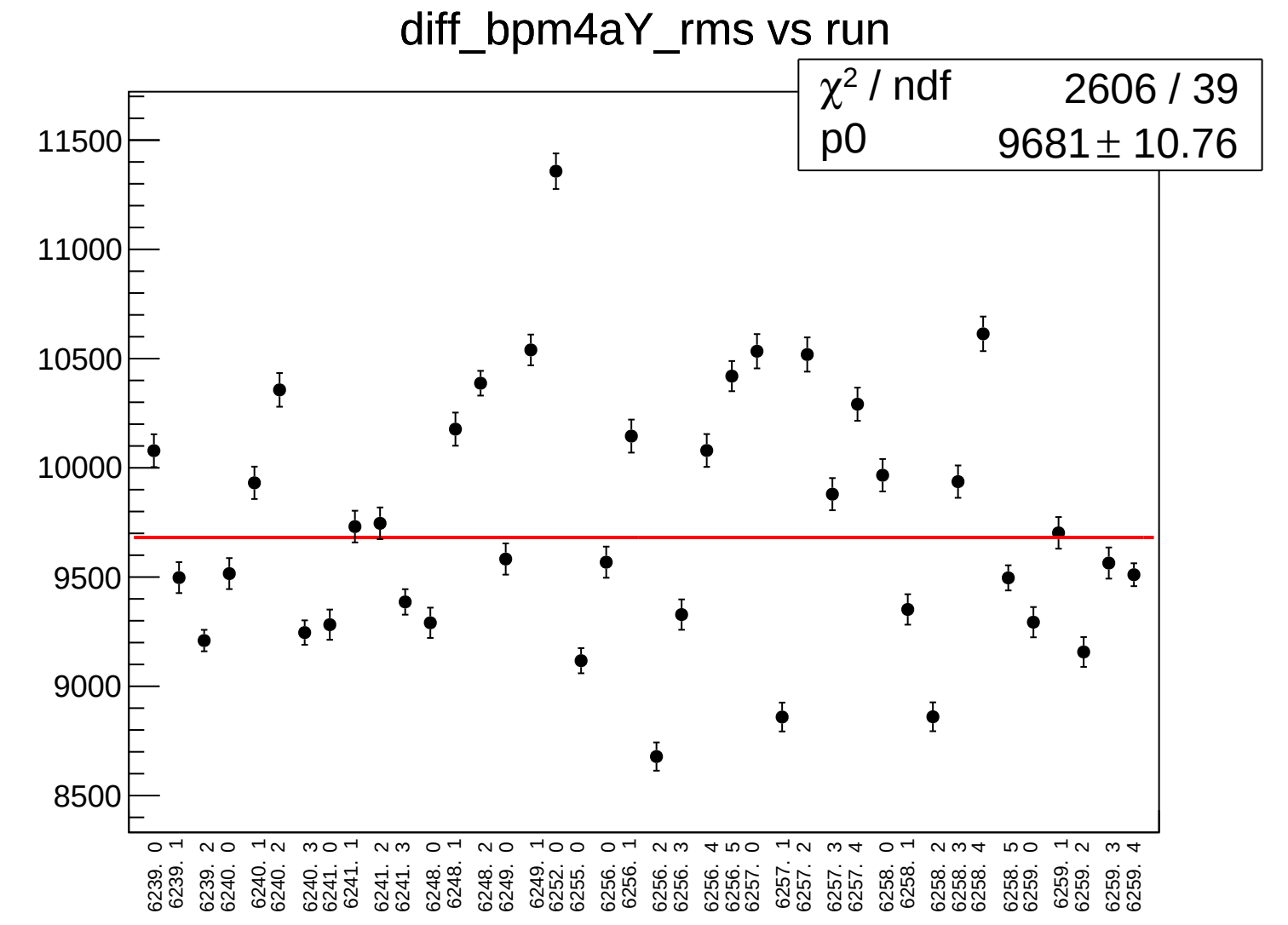

diff_cav4dY_rms vs run
$\chi^2$ / ndf 1748 / 39
p0 452.1 ± 0.5021
520
500
480
460
440
420
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

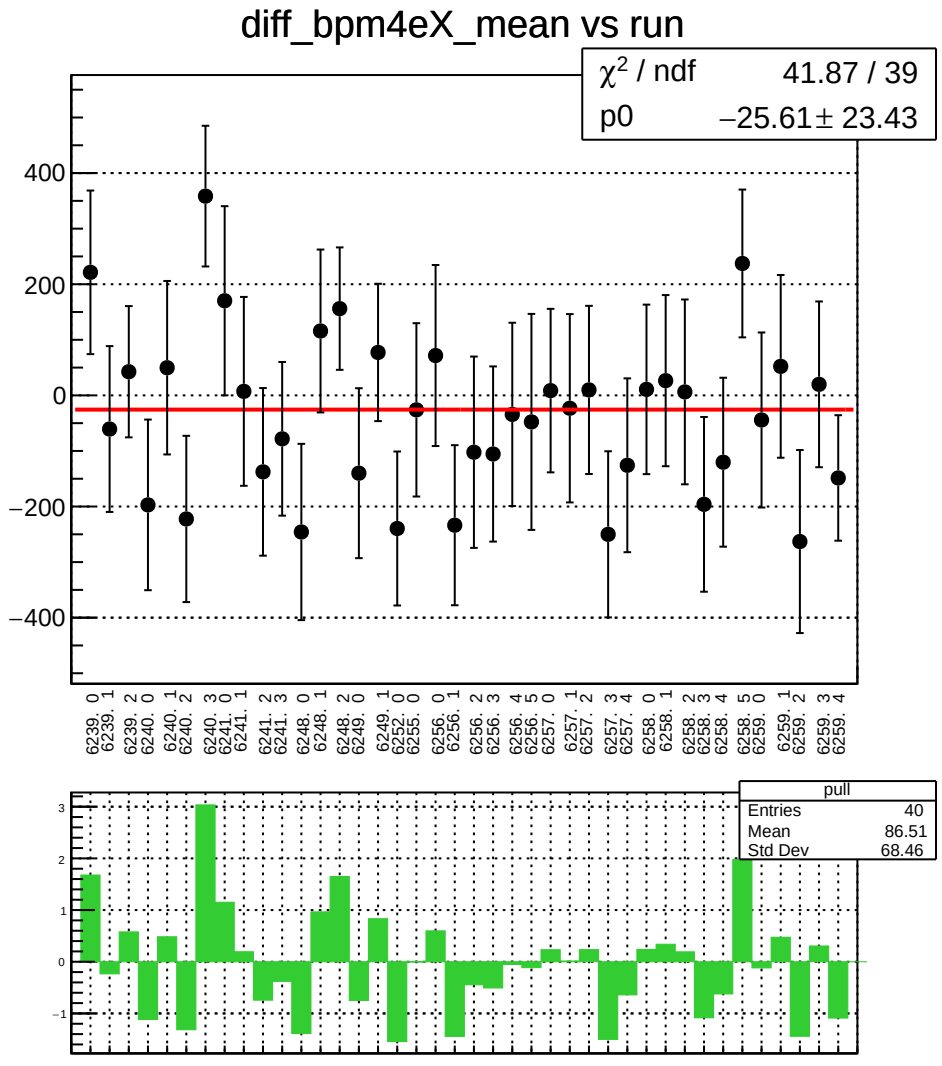

diff_bpm4aX_mean vs run
χ² / ndf 43.06 / 39
p0 −25.86 ± 28.17
600
400
200
0
−200
−400
−600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 84.55
Std Dev 66.95
3
2
1
0
−1

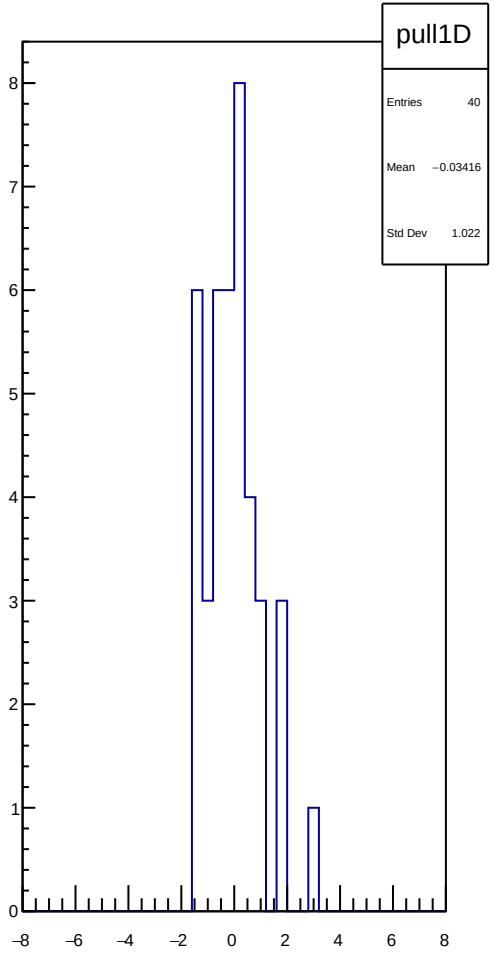

pull1D
Entries 40
Mean −0.03491
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

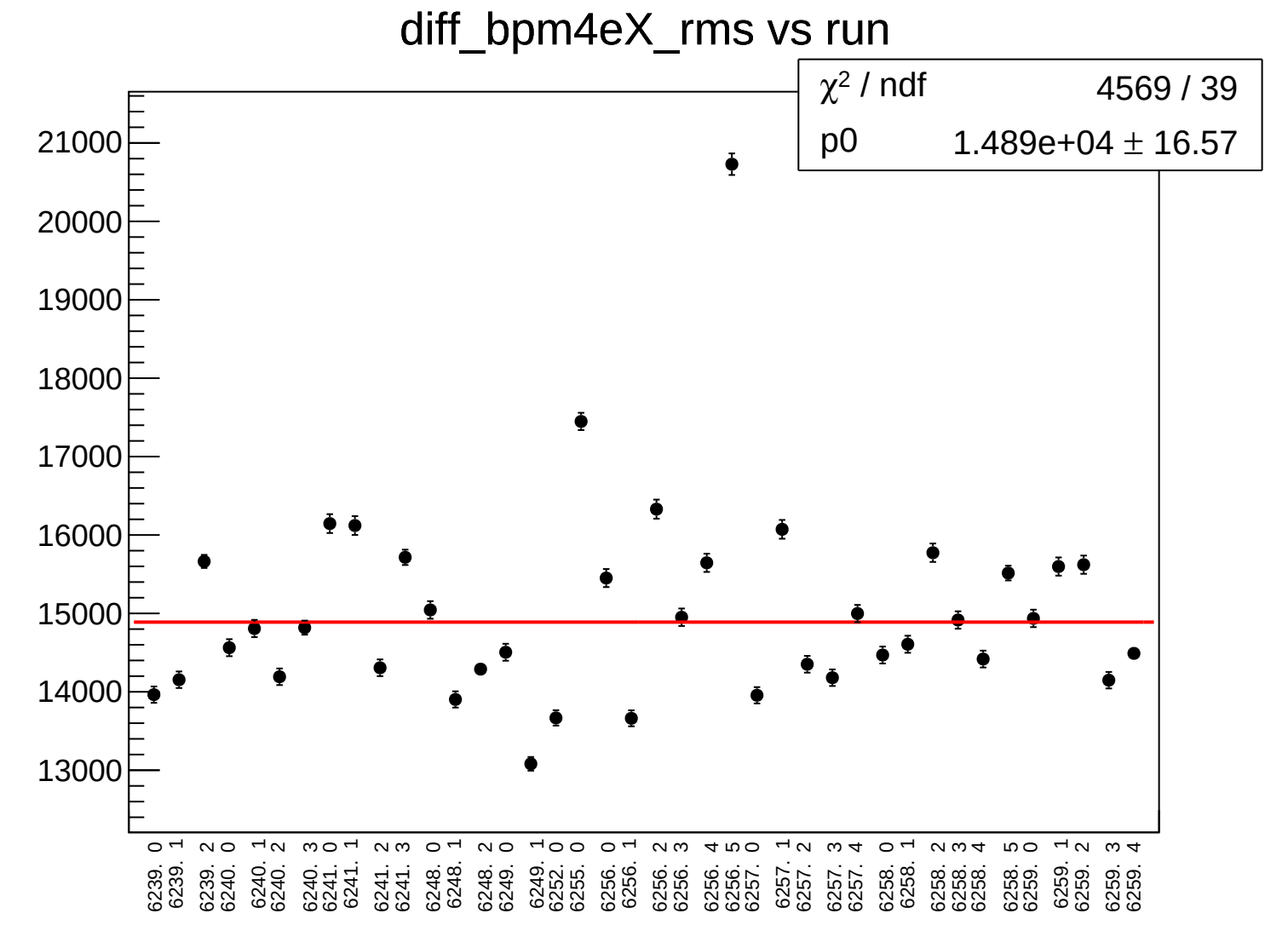

diff_bpm4aX_rms vs run
χ² / ndf 4082 / 39
p0 1.791e+04 ± 19.92
24000
22000
20000
18000
16000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

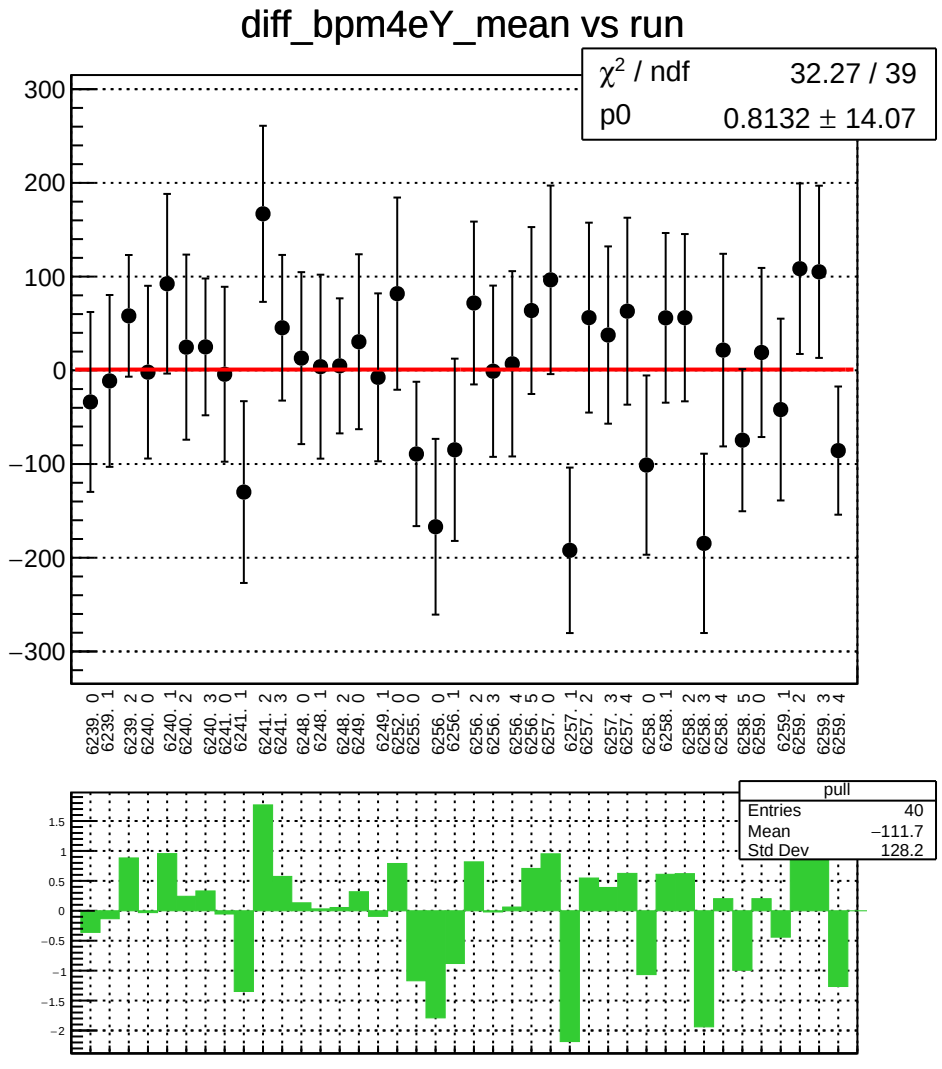

diff_bpm4aY_mean vs run
χ² / ndf 31.85 / 39
p0 −0.9875 ± 15.22
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −33.6
Std Dev 47.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.01521
Std Dev 0.8923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

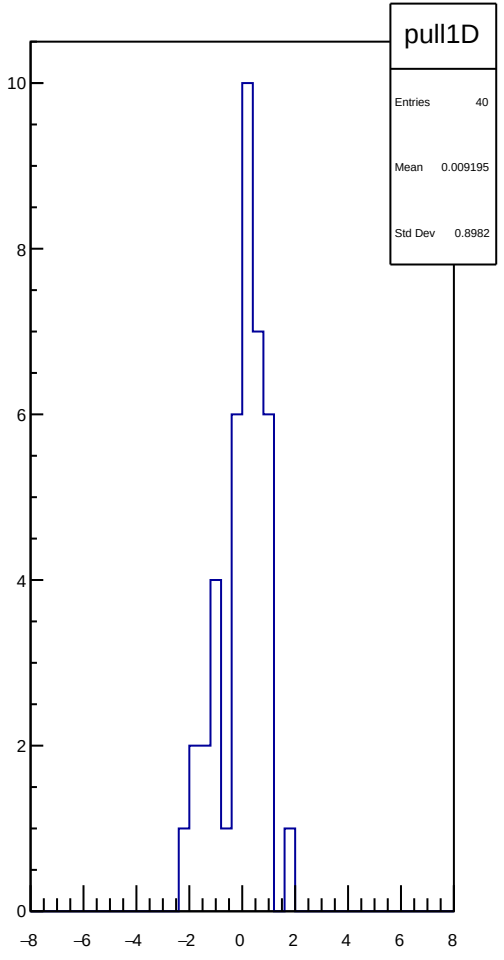

diff_bpm4aY_rms vs run
χ² / ndf 2606 / 39
p0 9681 ± 10.76
11500
11000
10500
10000
9500
9000
8500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

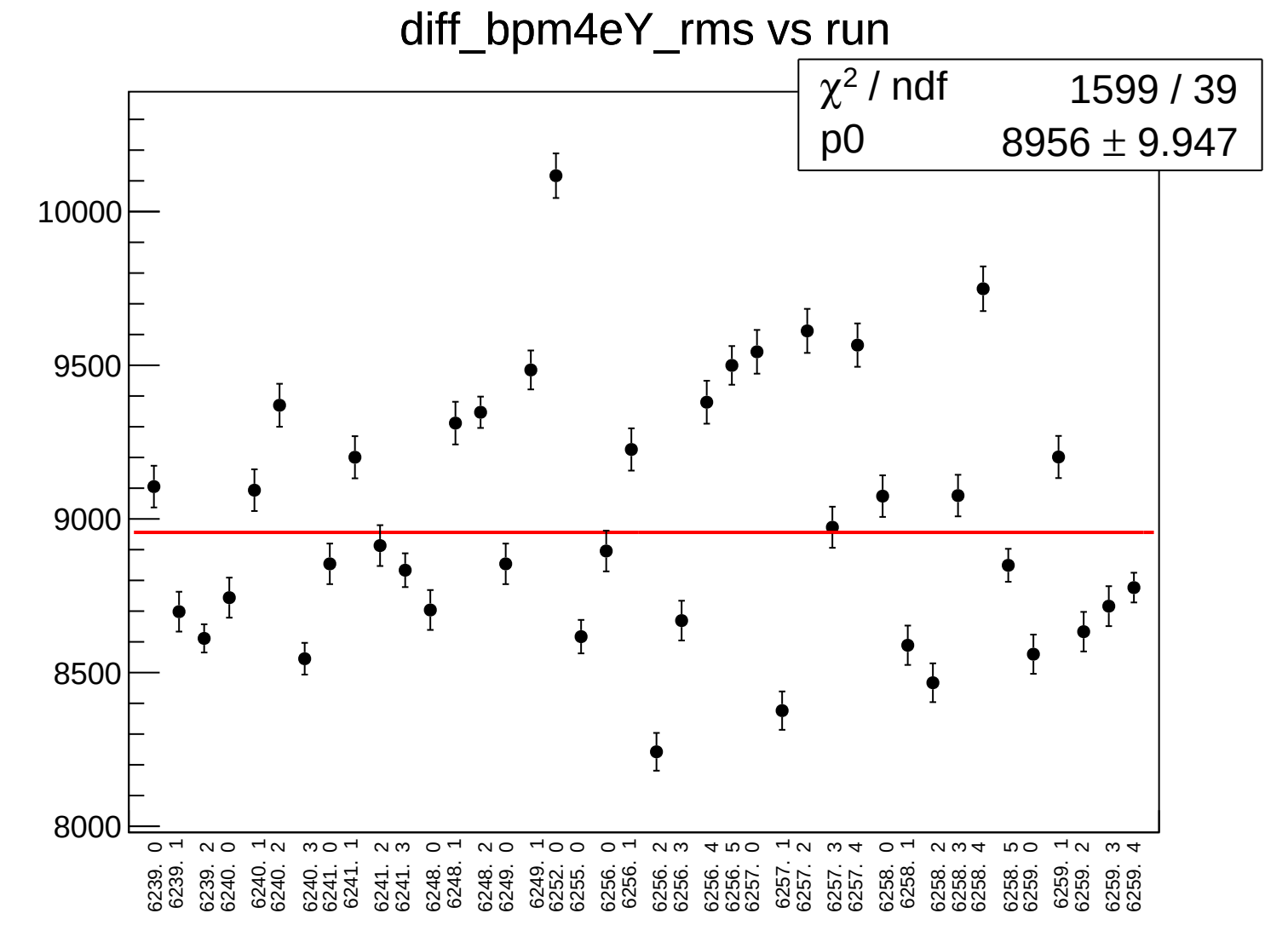

diff_bpm4eX_mean vs run
χ² / ndf 41.87 / 39
p0 −25.61± 23.43
400
200
0
−200
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 86.51
Std Dev 68.46
3
2
1
0
−1

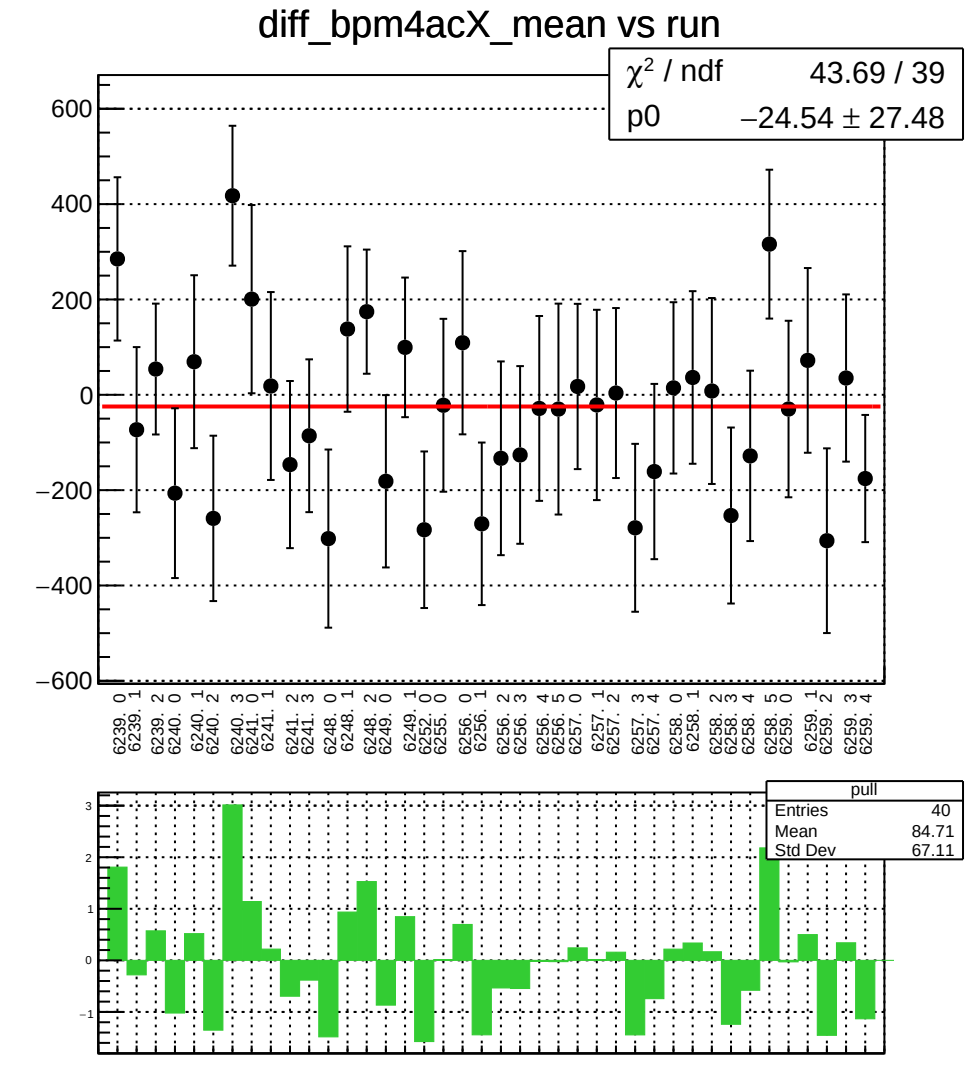

pull1D
Entries 40
Mean −0.03416
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

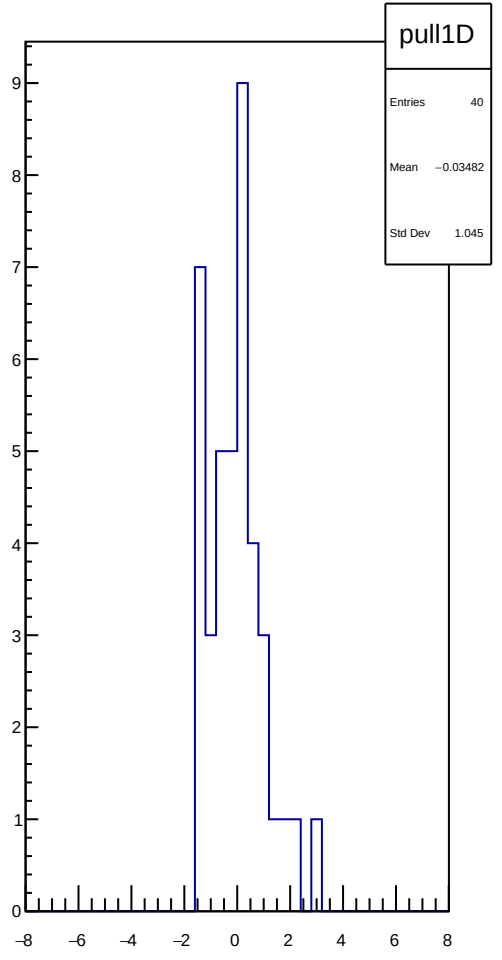

diff_bpm4eX_rms vs run
χ² / ndf 4569 / 39
p0 1.489e+04 ± 16.57
21000
20000
19000
18000
17000
16000
15000
14000
13000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

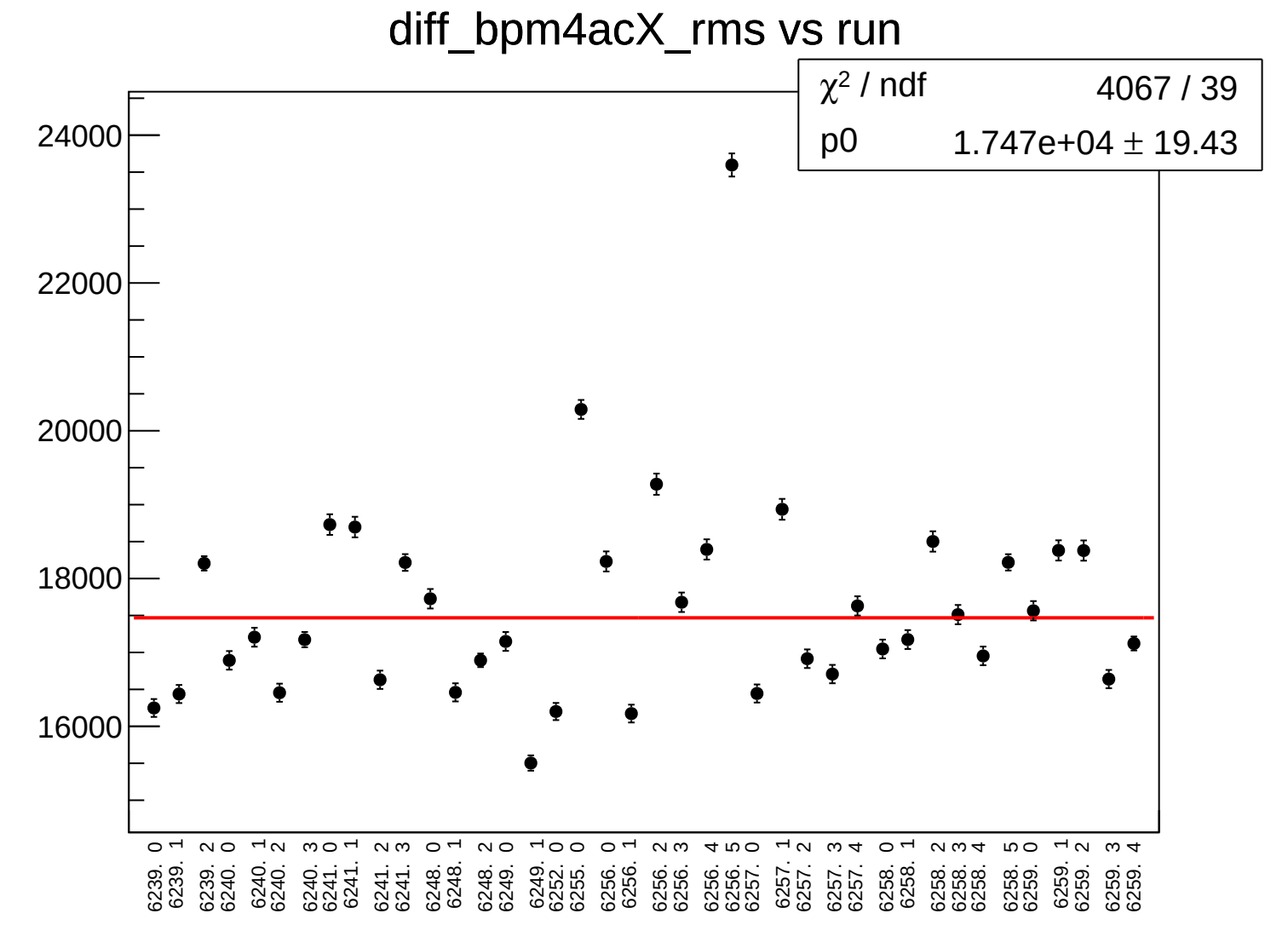

diff_bpm4eY_mean vs run
χ² / ndf 32.27 / 39
p0 0.8132 ± 14.07
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −111.7
Std Dev 128.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

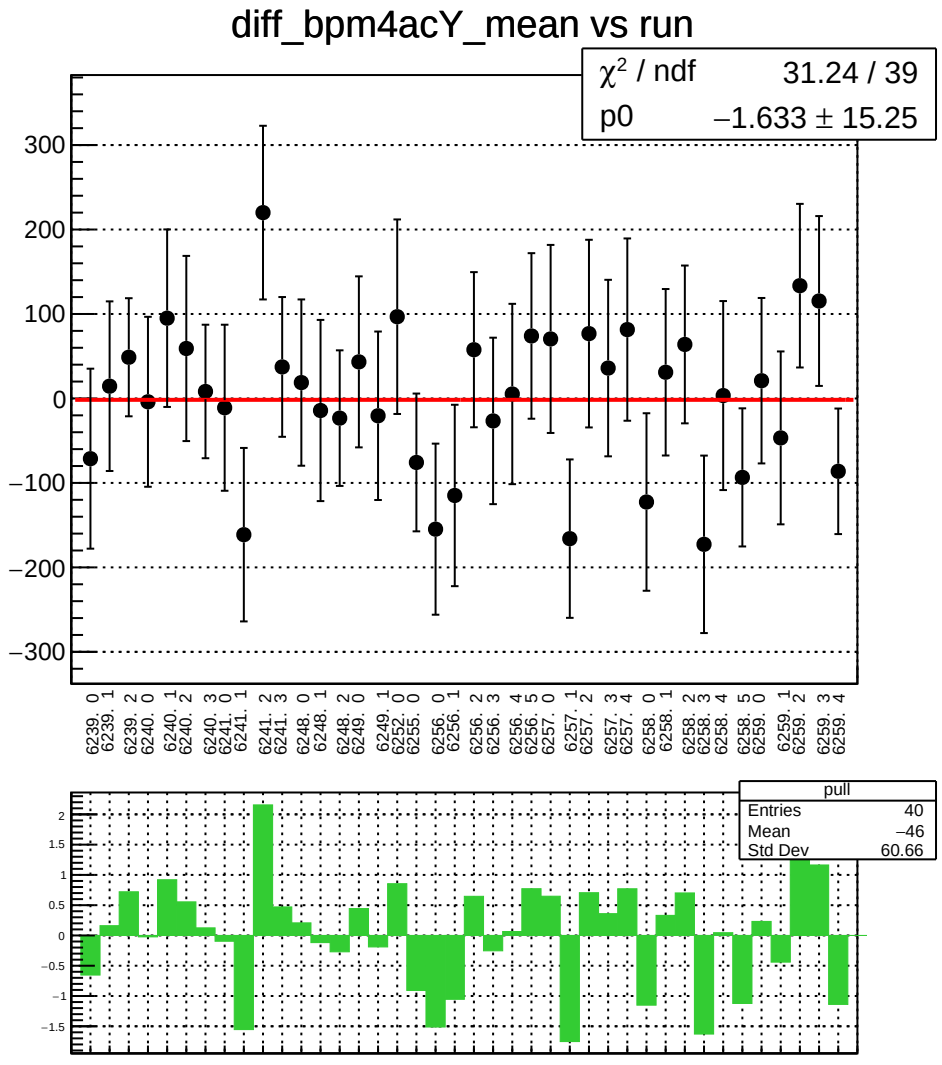

pull1D
Entries 40
Mean 0.009195
Std Dev 0.8982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

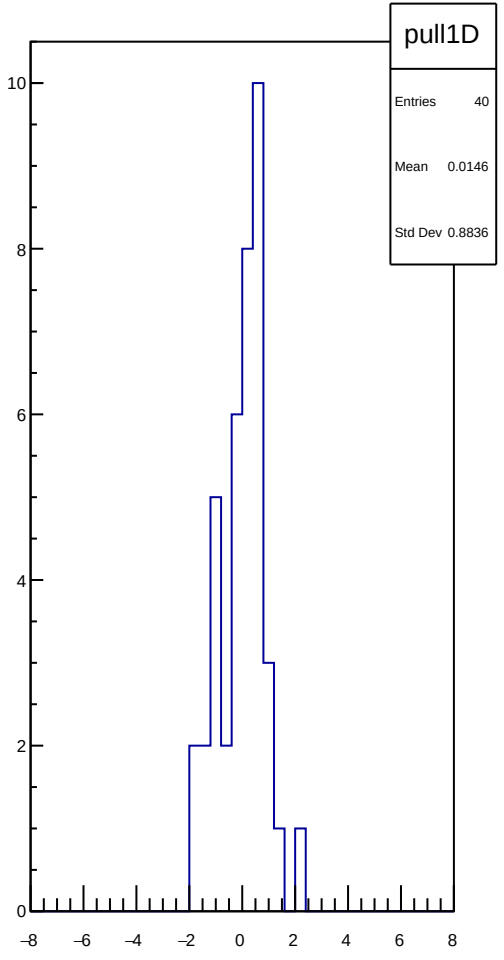

diff_bpm4eY_rms vs run
χ² / ndf 1599 / 39
p0 8956 ± 9.947
10000
9500
9000
8500
8000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

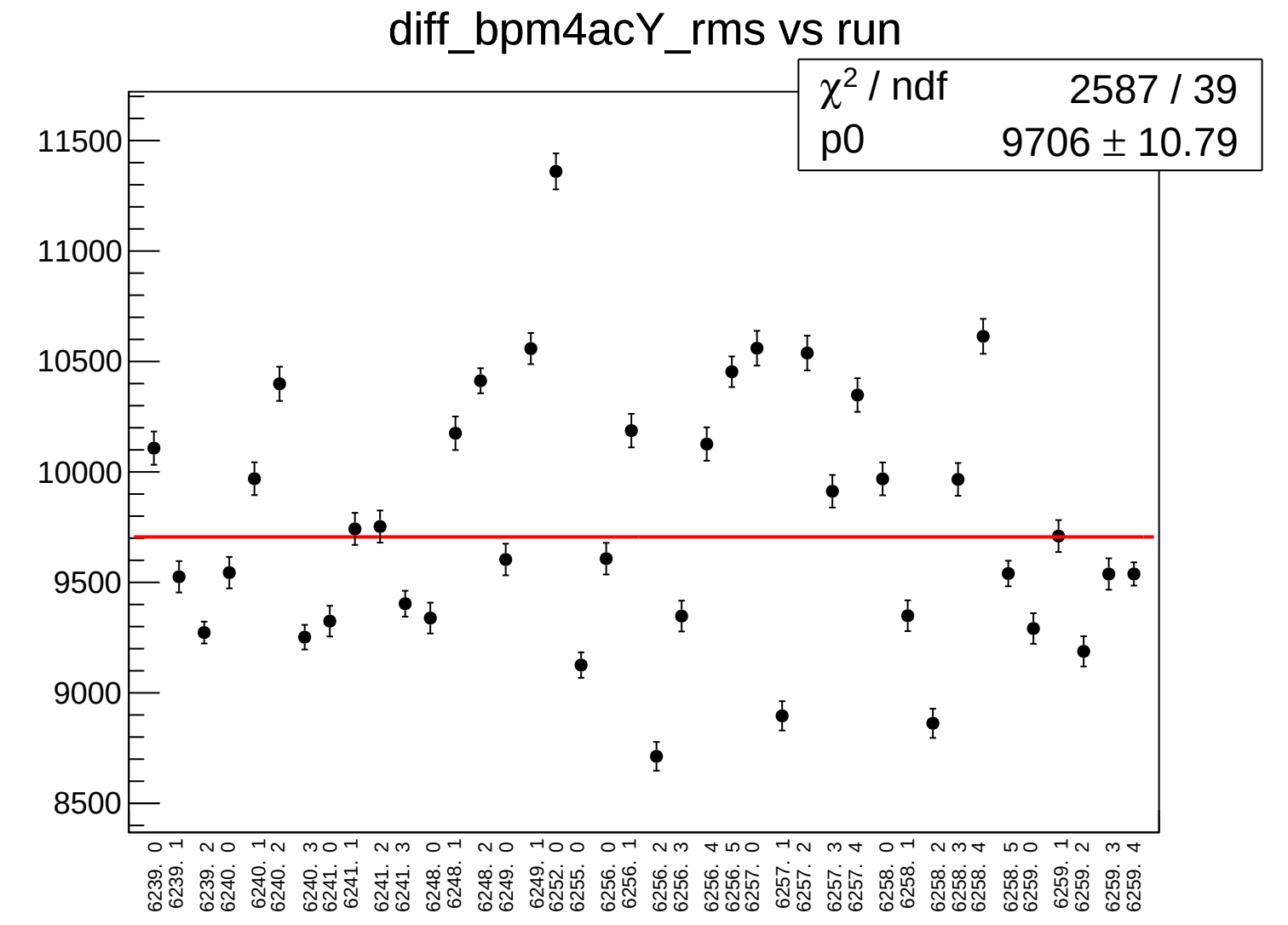

diff_bpm4acX_mean vs run
χ² / ndf 43.69 / 39
p0 −24.54 ± 27.48
600
400
200
0
−200
−400
−600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 84.71
Std Dev 67.11
3
2
1
0
−1

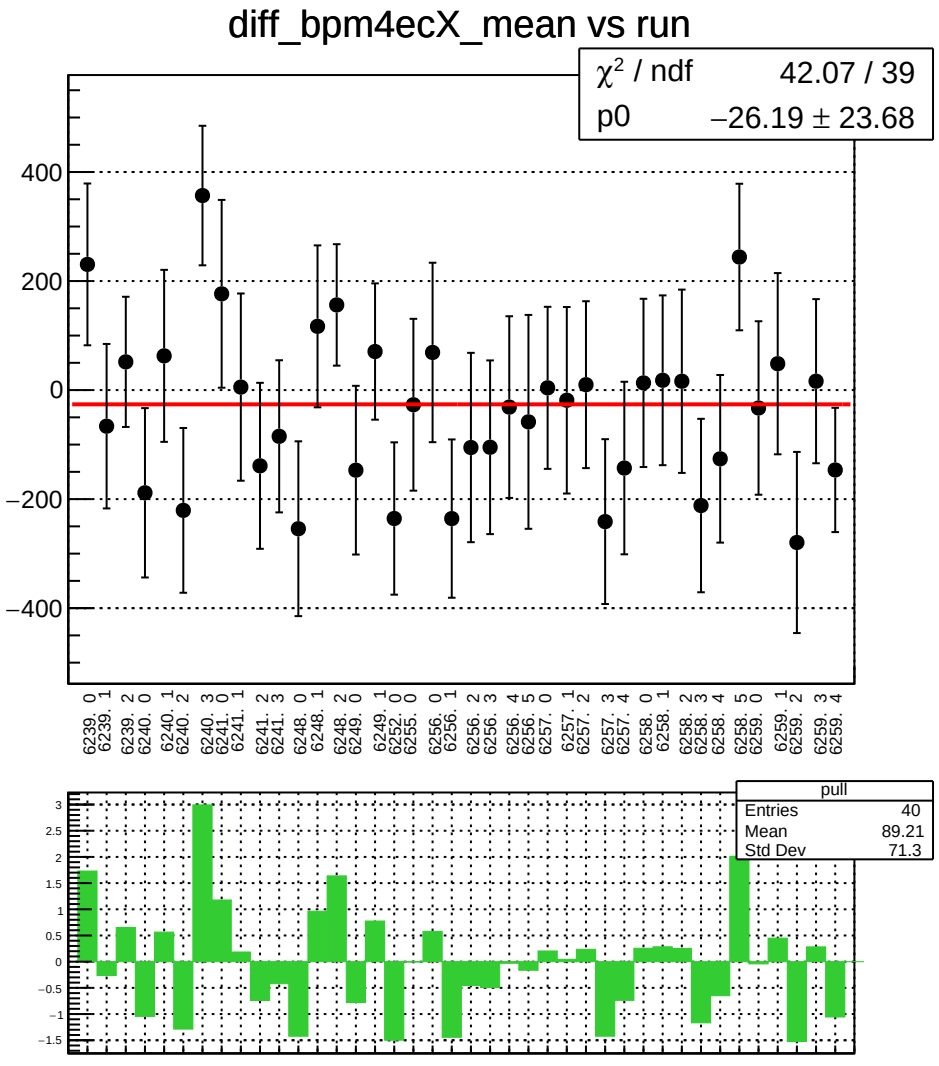

pull1D
Entries 40
Mean −0.03482
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

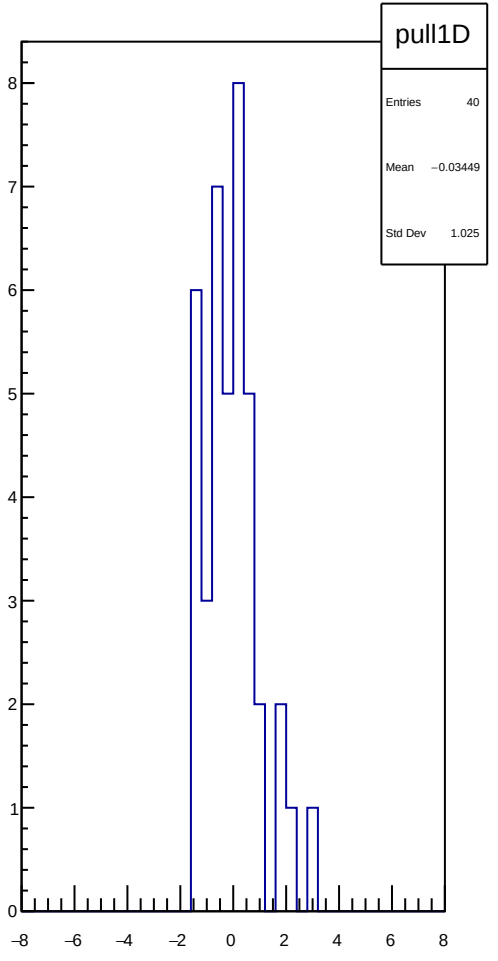

diff_bpm4acX_rms vs run
χ² / ndf 4067 / 39
p0 1.747e+04 ± 19.43
24000
22000
20000
18000
16000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

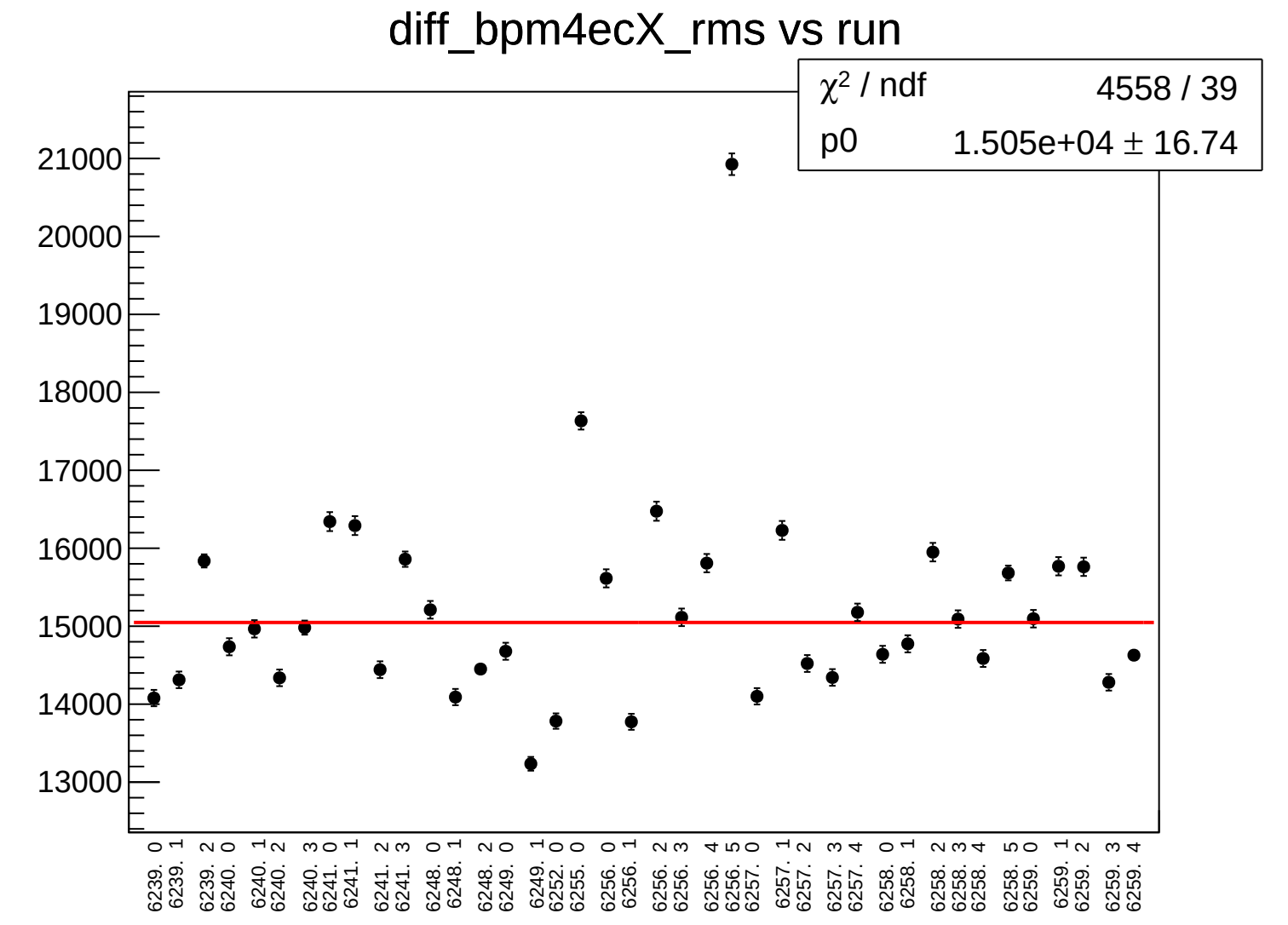

diff_bpm4acY_mean vs run
χ² / ndf 31.24 / 39
p0 −1.633 ± 15.25
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −46
Std Dev 60.66
2
1.5
1
0.5
0
−0.5
−1
−1.5

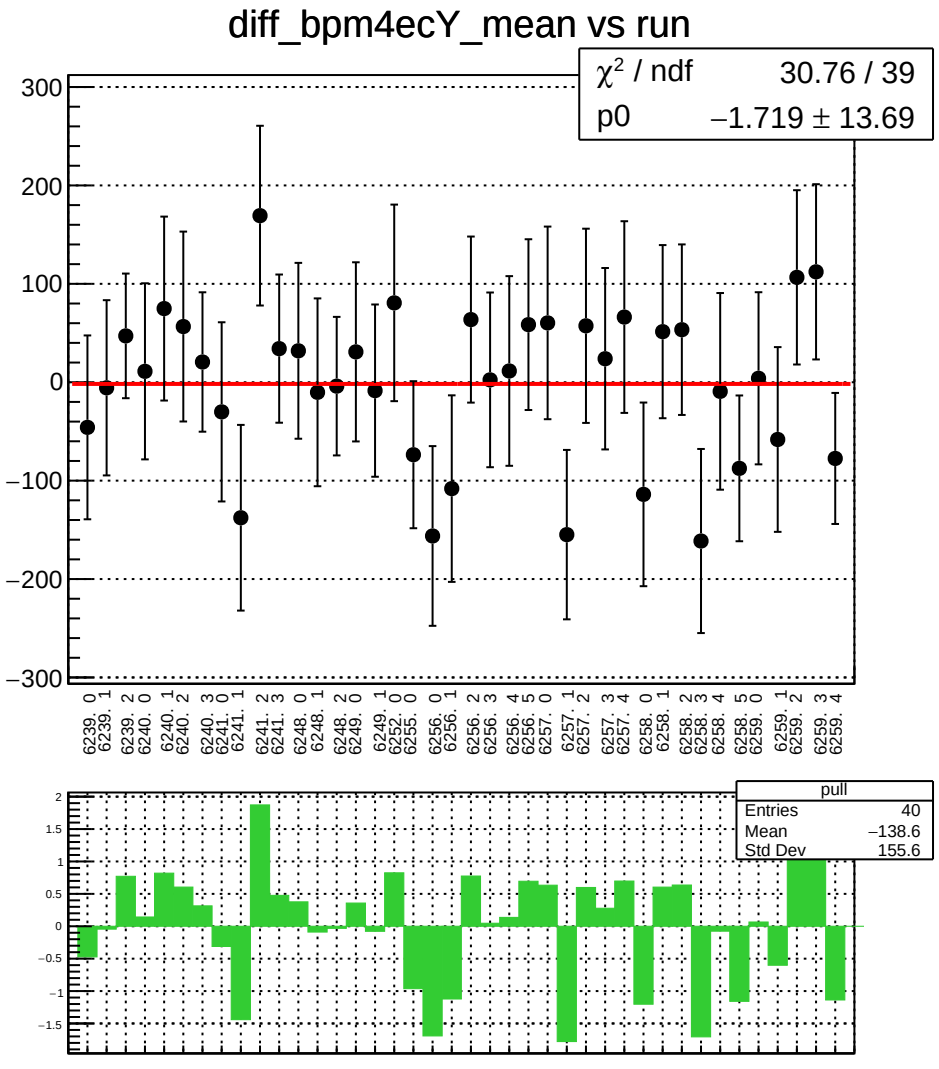

pull1D
Entries 40
Mean 0.0146
Std Dev 0.8836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

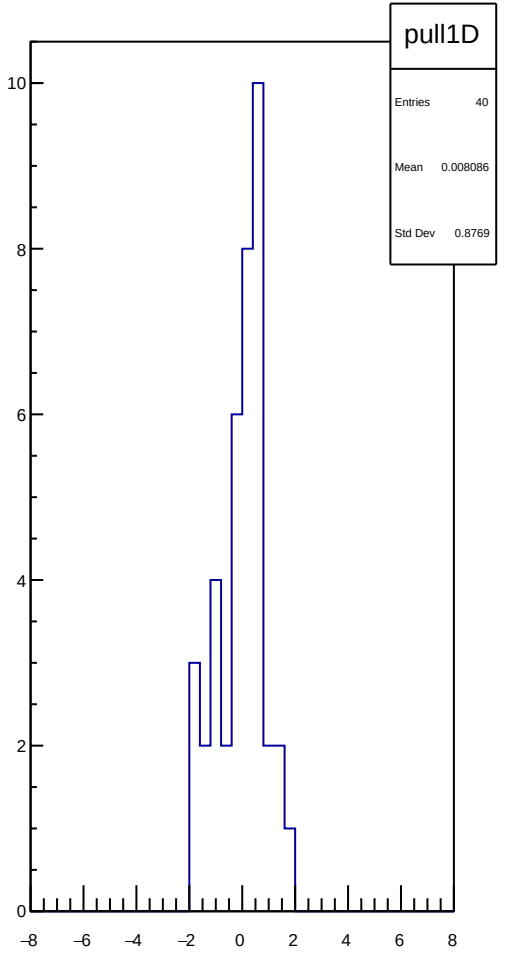

diff_bpm4acY_rms vs run
χ² / ndf 2587 / 39
p0 9706 ± 10.79
11500
11000
10500
10000
9500
9000
8500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

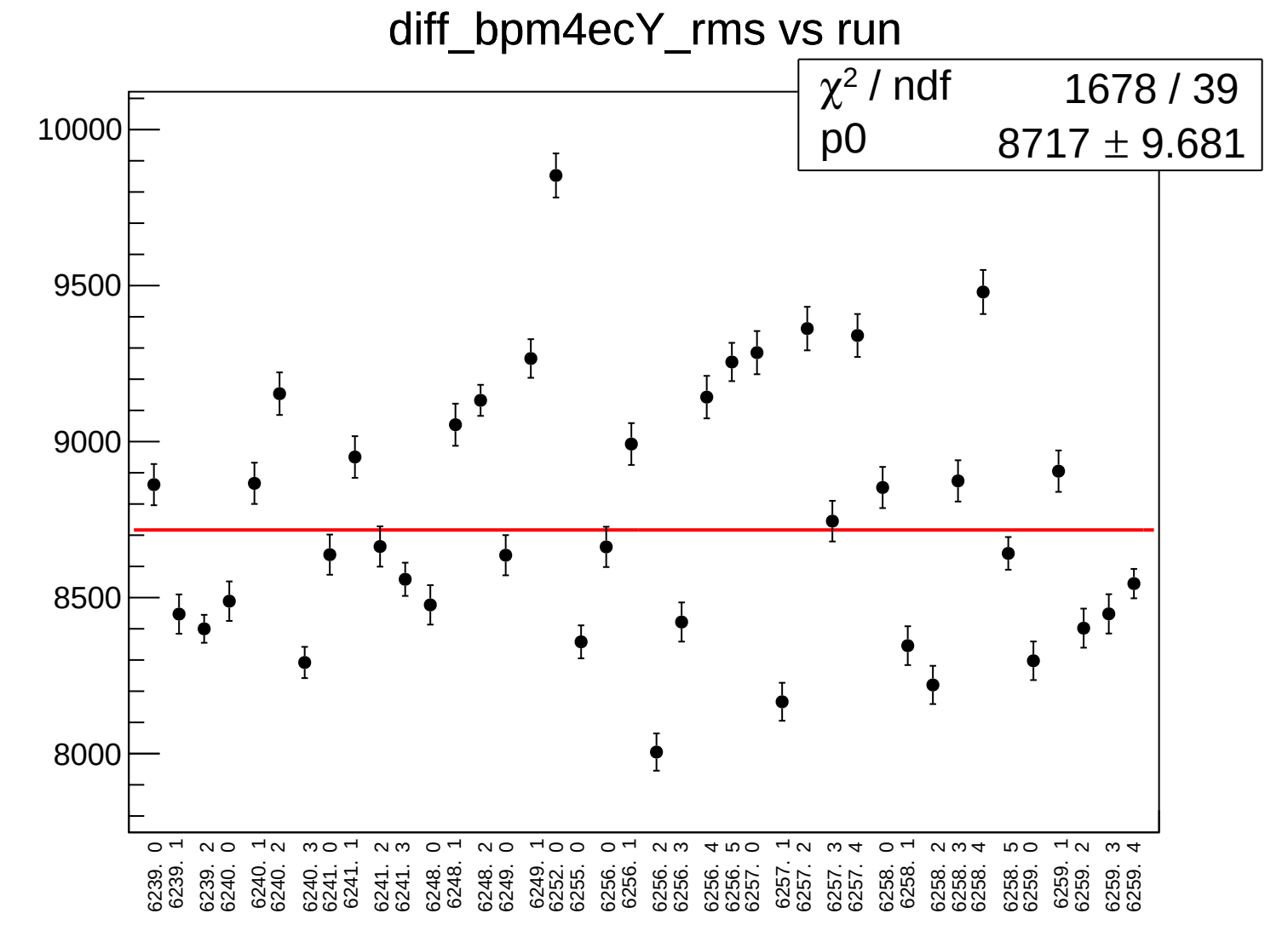

diff_bpm4ecX_mean vs run
χ² / ndf 42.07 / 39
p0 −26.19 ± 23.68
400
200
0
−200
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 89.21
Std Dev 71.3
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

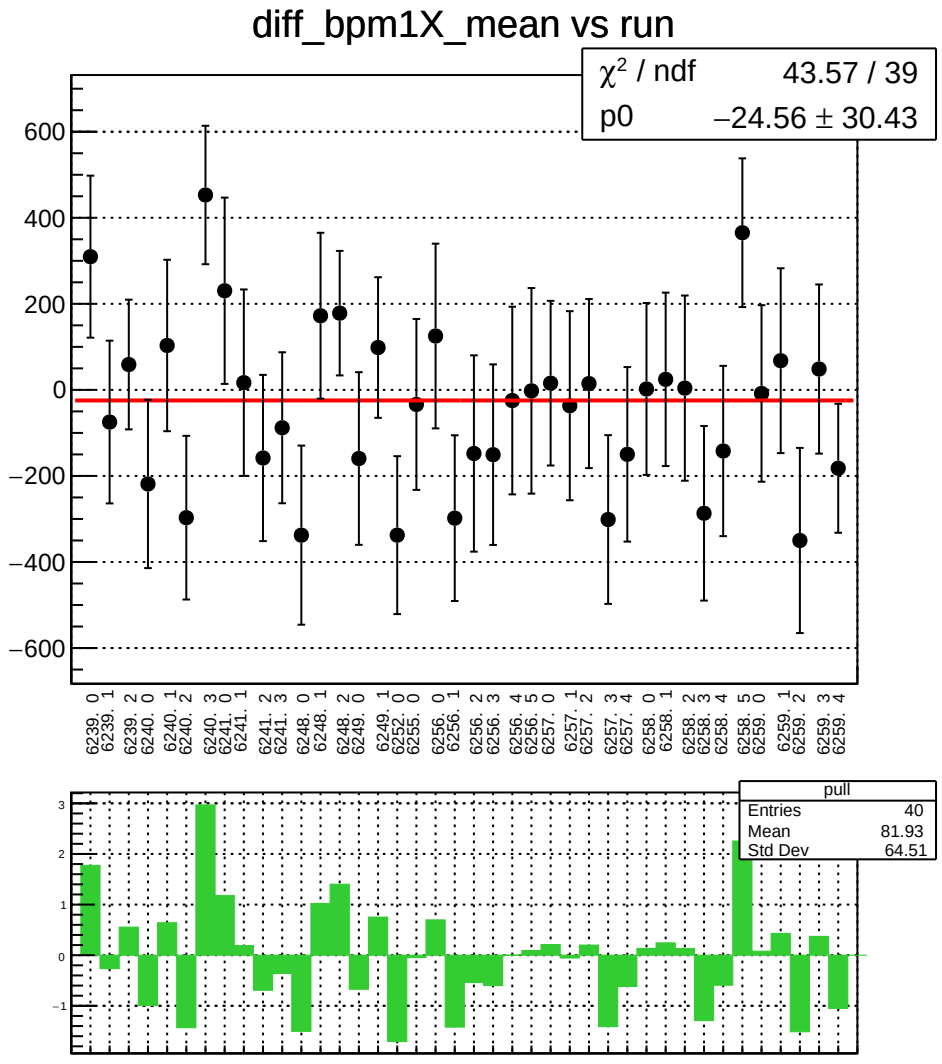

pull1D
Entries 40
Mean −0.03449
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

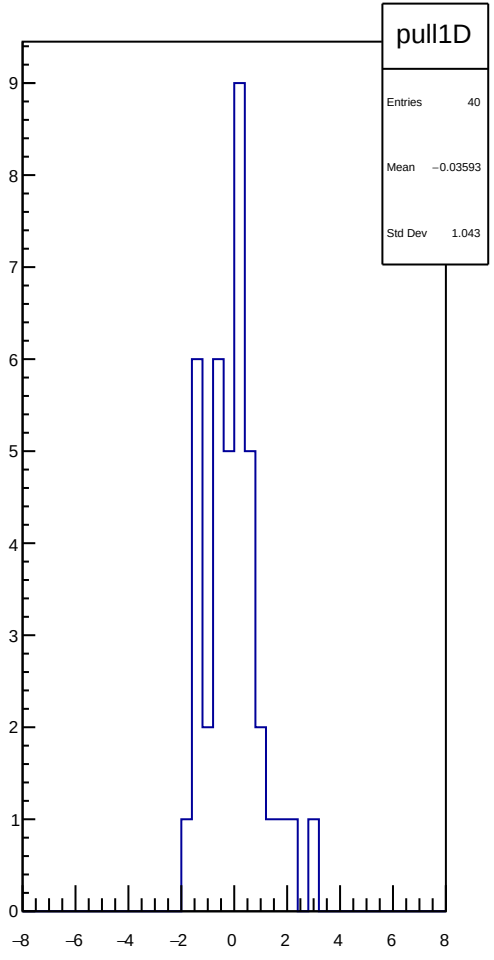

diff_bpm4ecX_rms vs run
χ² / ndf 4558 / 39
p0 1.505e+04 ± 16.74
21000
20000
19000
18000
17000
16000
15000
14000
13000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

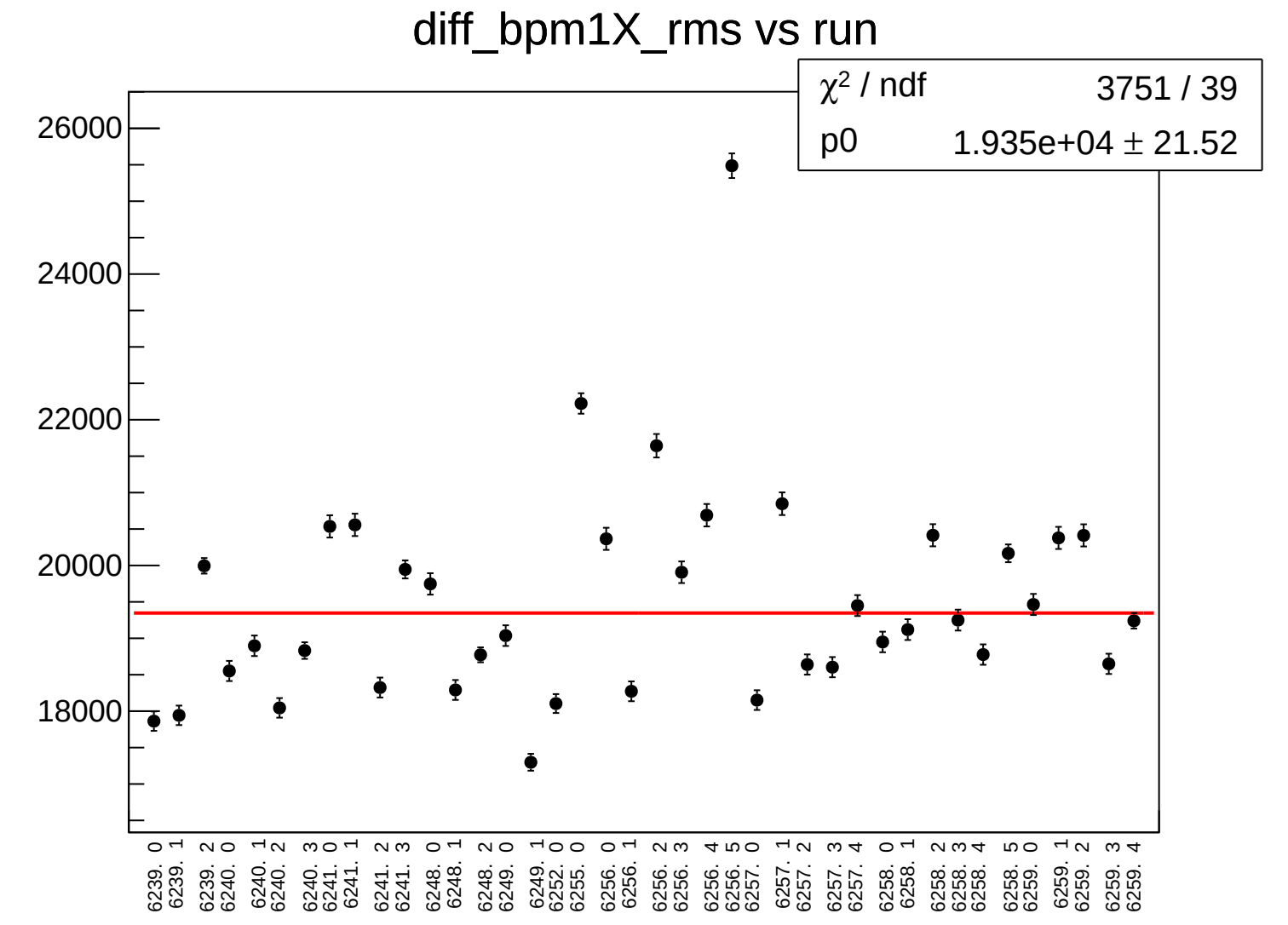

diff_bpm4ecY_mean vs run
χ² / ndf 30.76 / 39
p0 −1.719 ± 13.69
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −138.6
Std Dev 155.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

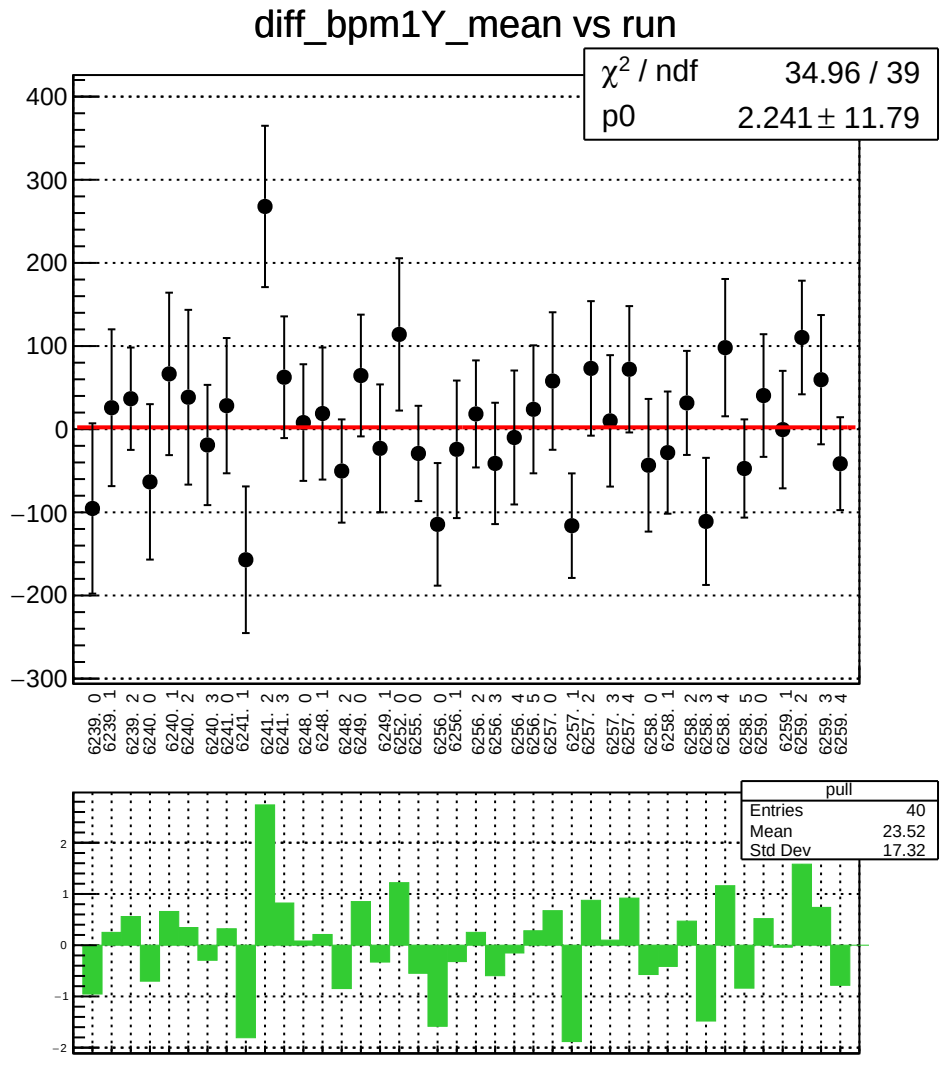

pull1D
Entries 40
Mean 0.008086
Std Dev 0.8769
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

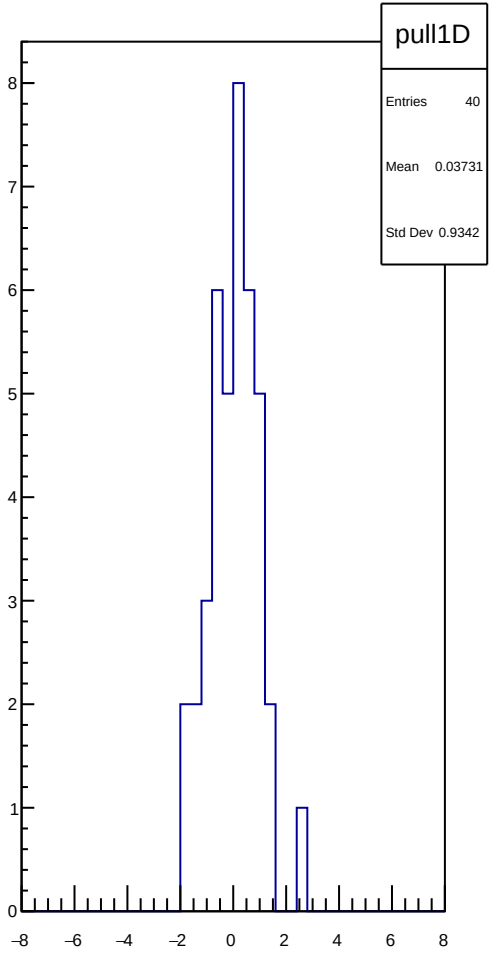

diff_bpm4ecY_rms vs run
χ² / ndf 1678 / 39
p0 8717 ± 9.681
10000
9500
9000
8500
8000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

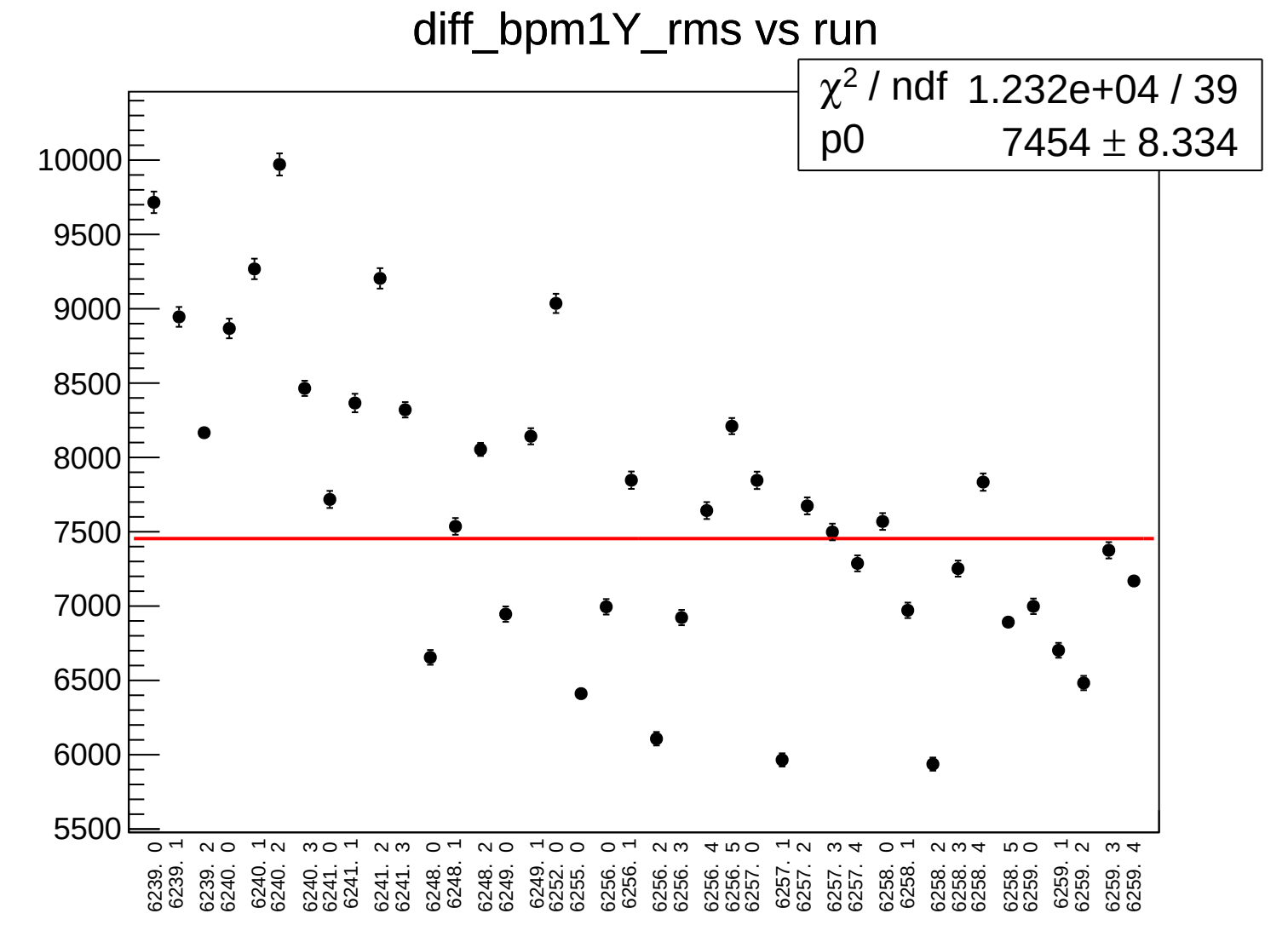

diff_bpm1X_mean vs run
χ² / ndf 43.57 / 39
p0 −24.56 ± 30.43
600
400
200
0
−200
−400
−600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 81.93
Std Dev 64.51
3
2
1
0
−1

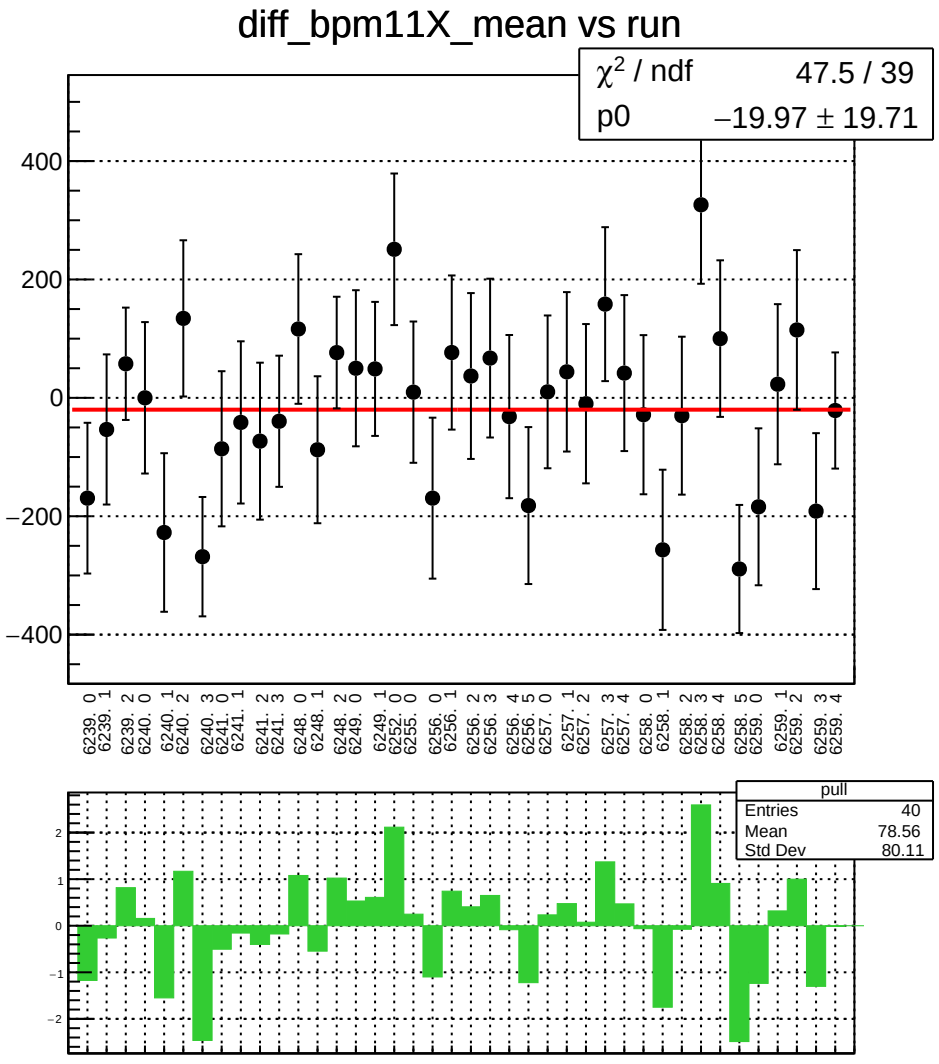

pull1D
Entries 40
Mean −0.03593
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

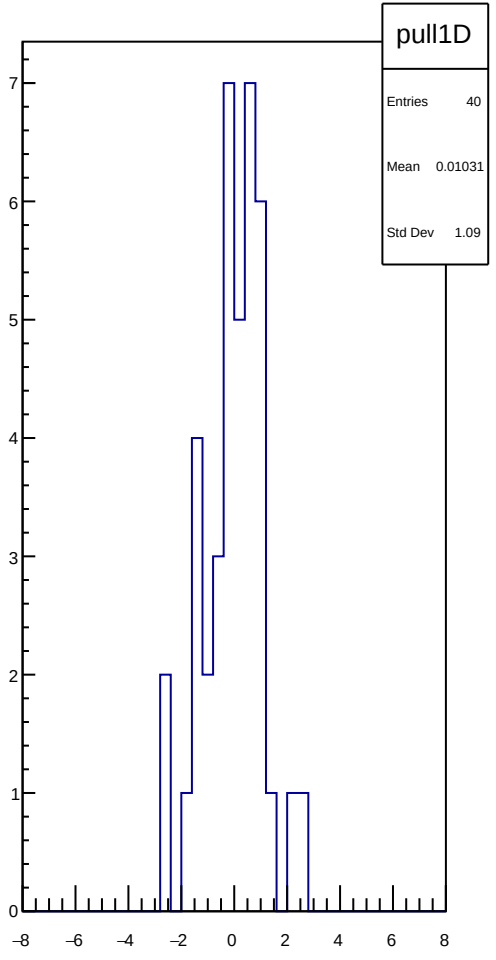

diff_bpm1X_rms vs run
χ² / ndf 3751 / 39
p0 1.935e+04 ± 21.52
26000
24000
22000
20000
18000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

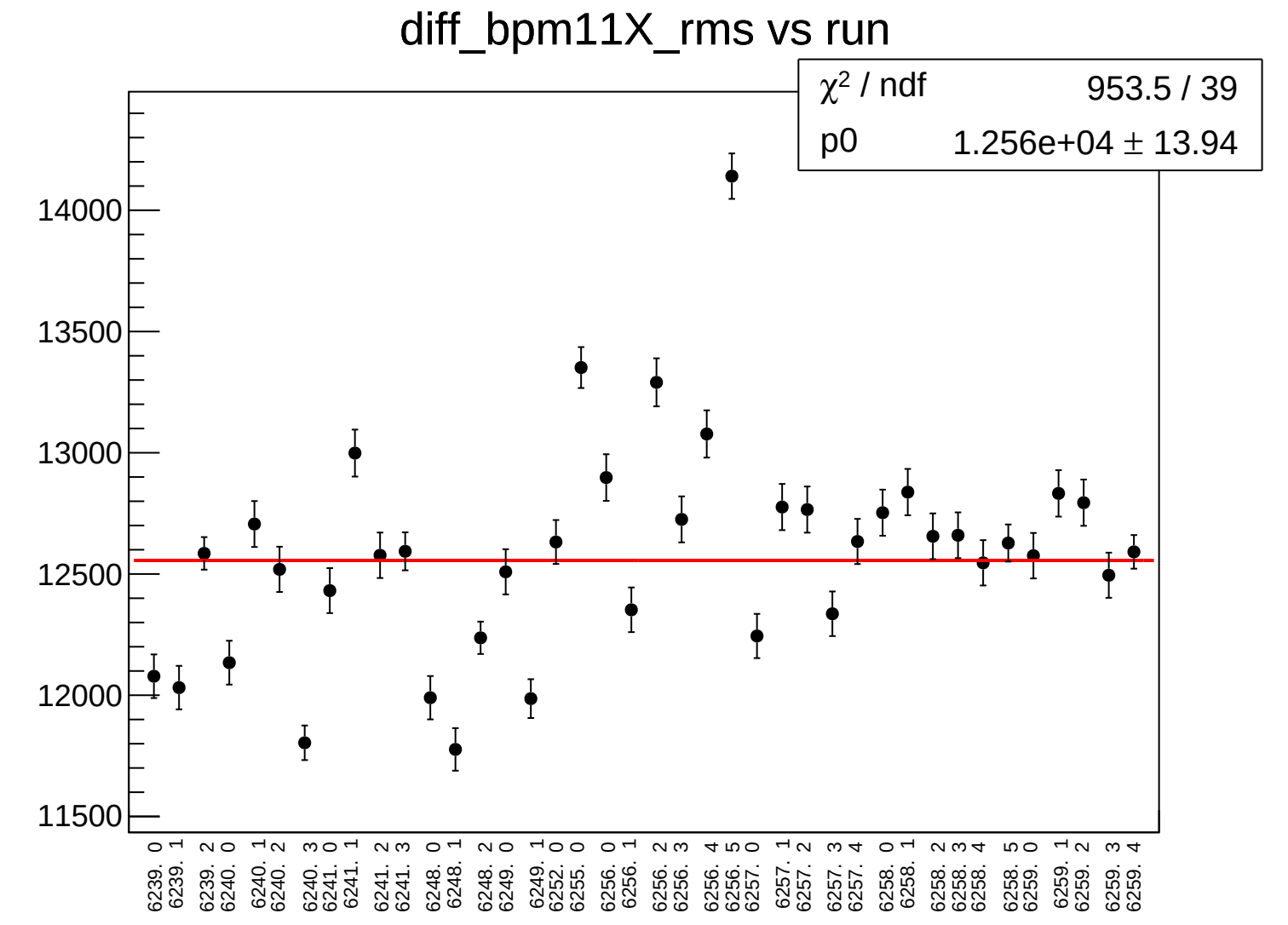

diff_bpm1Y_mean vs run
χ² / ndf 34.96 / 39
p0 2.241 ± 11.79
400
300
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 23.52
Std Dev 17.32
2
1
0
−1
−2

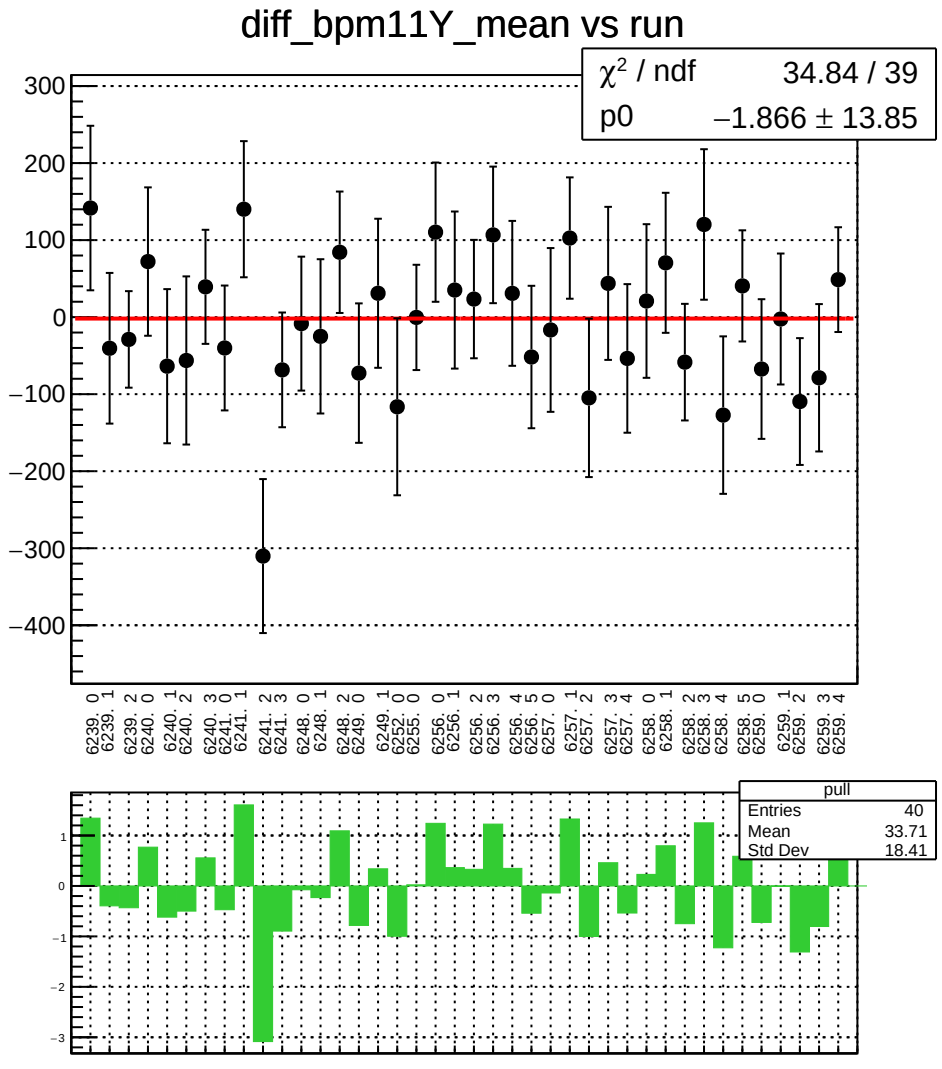

pull1D
Entries 40
Mean 0.03731
Std Dev 0.9342
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

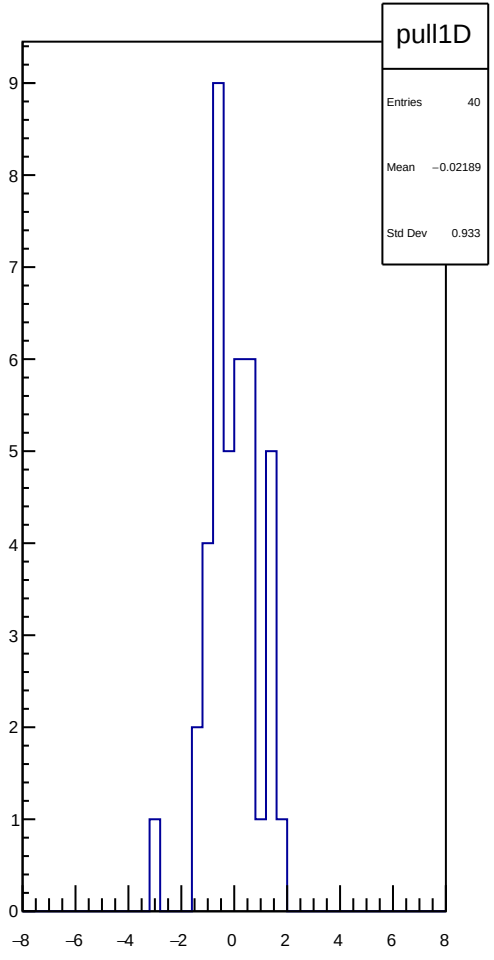

diff_bpm1Y_rms vs run
χ² / ndf 1.232e+04 / 39
p0 7454 ± 8.334
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

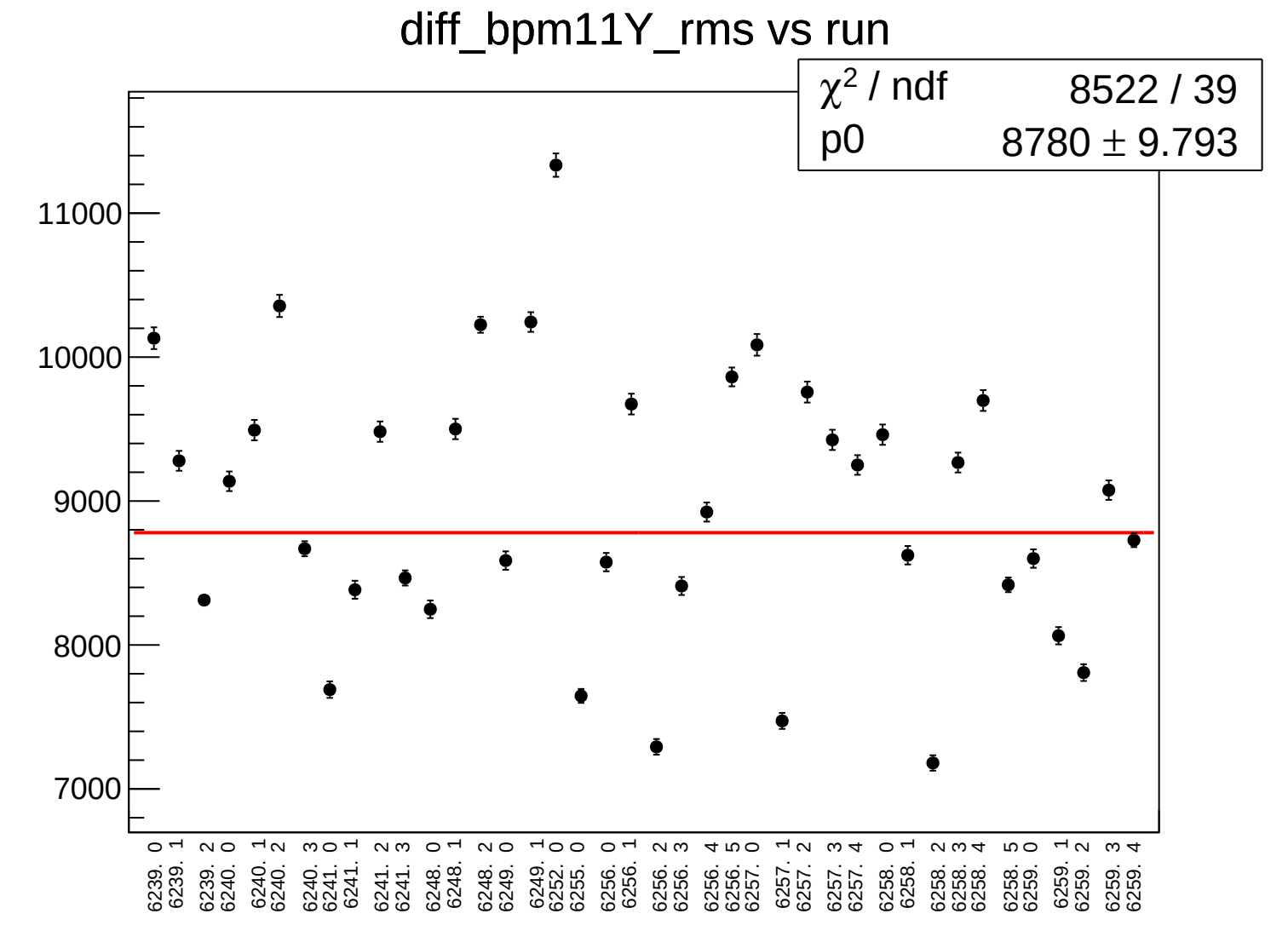

diff_bpm11X_mean vs run
χ² / ndf 47.5 / 39
p0 −19.97 ± 19.71
400
200
0
−200
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 78.56
Std Dev 80.11
2
1
0
−1
−2

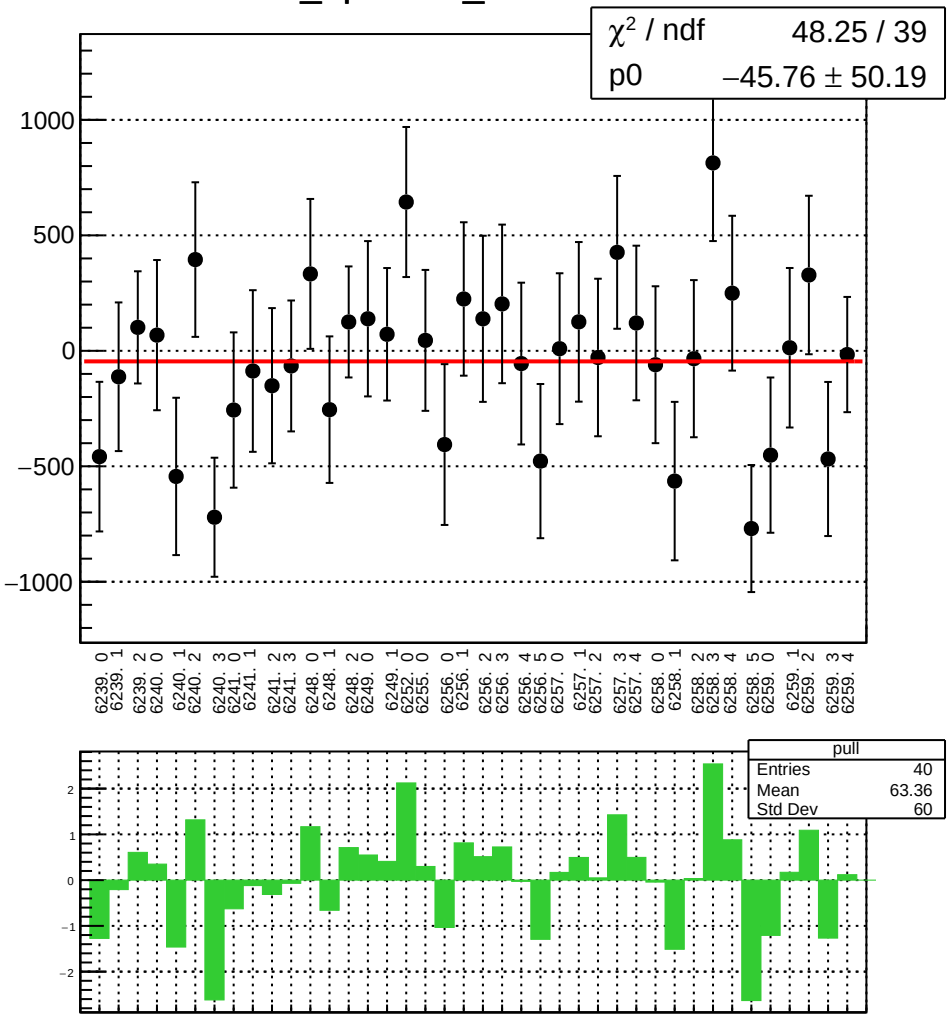

pull1D
Entries 40
Mean 0.01031
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

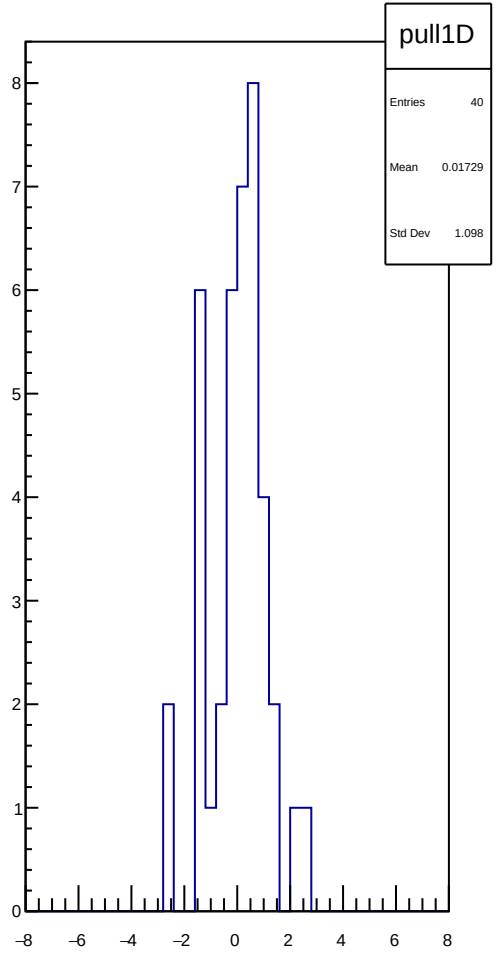

diff_bpm11X_rms vs run
χ² / ndf 953.5 / 39
p0 1.256e+04 ± 13.94
14000
13500
13000
12500
12000
11500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

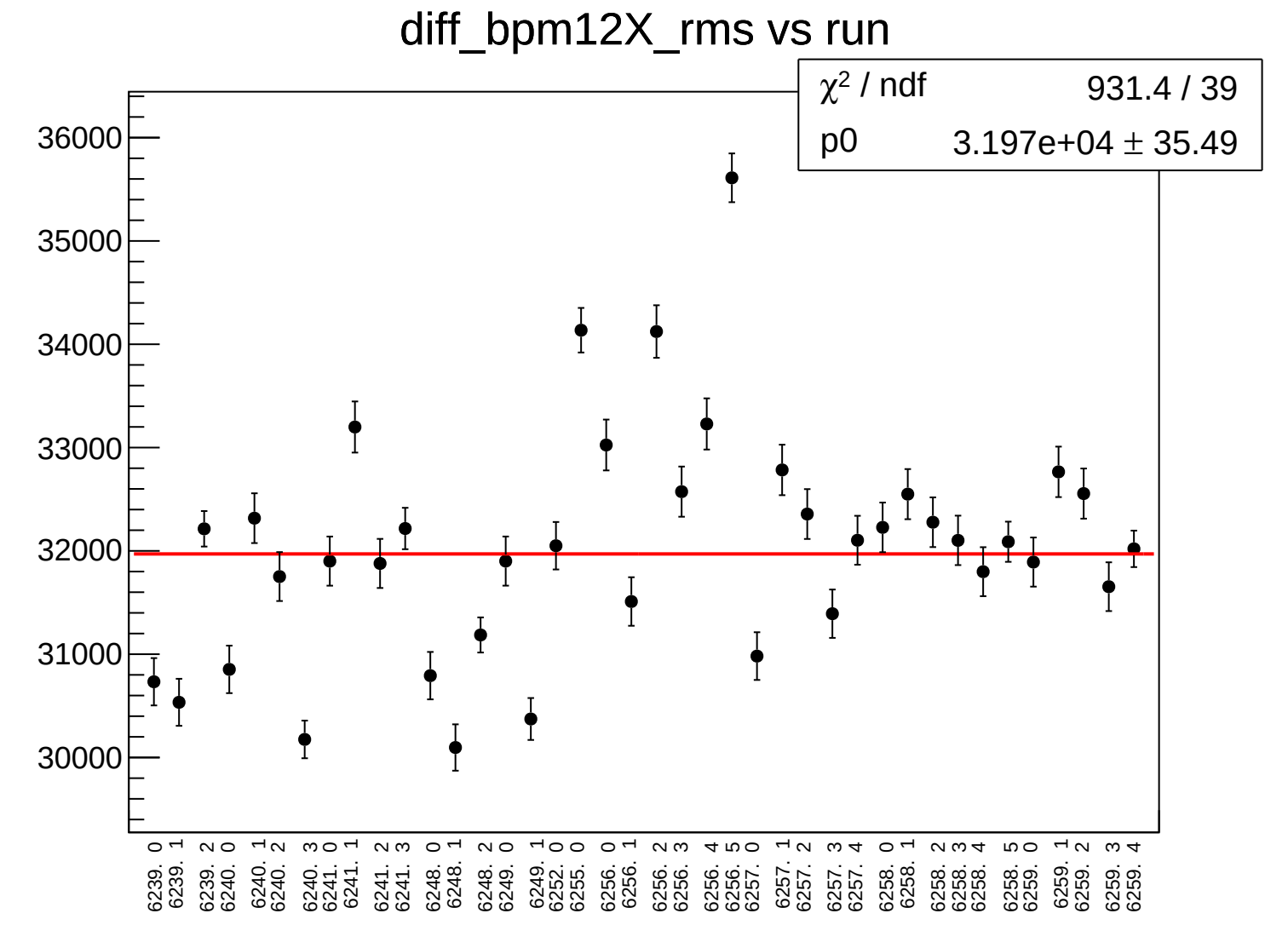

diff_bpm11Y_mean vs run
χ² / ndf 34.84 / 39
p0 −1.866 ± 13.85
300
200
100
0
−100
−200
−300
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 33.71
Std Dev 18.41
1
0
−1
−2
−3

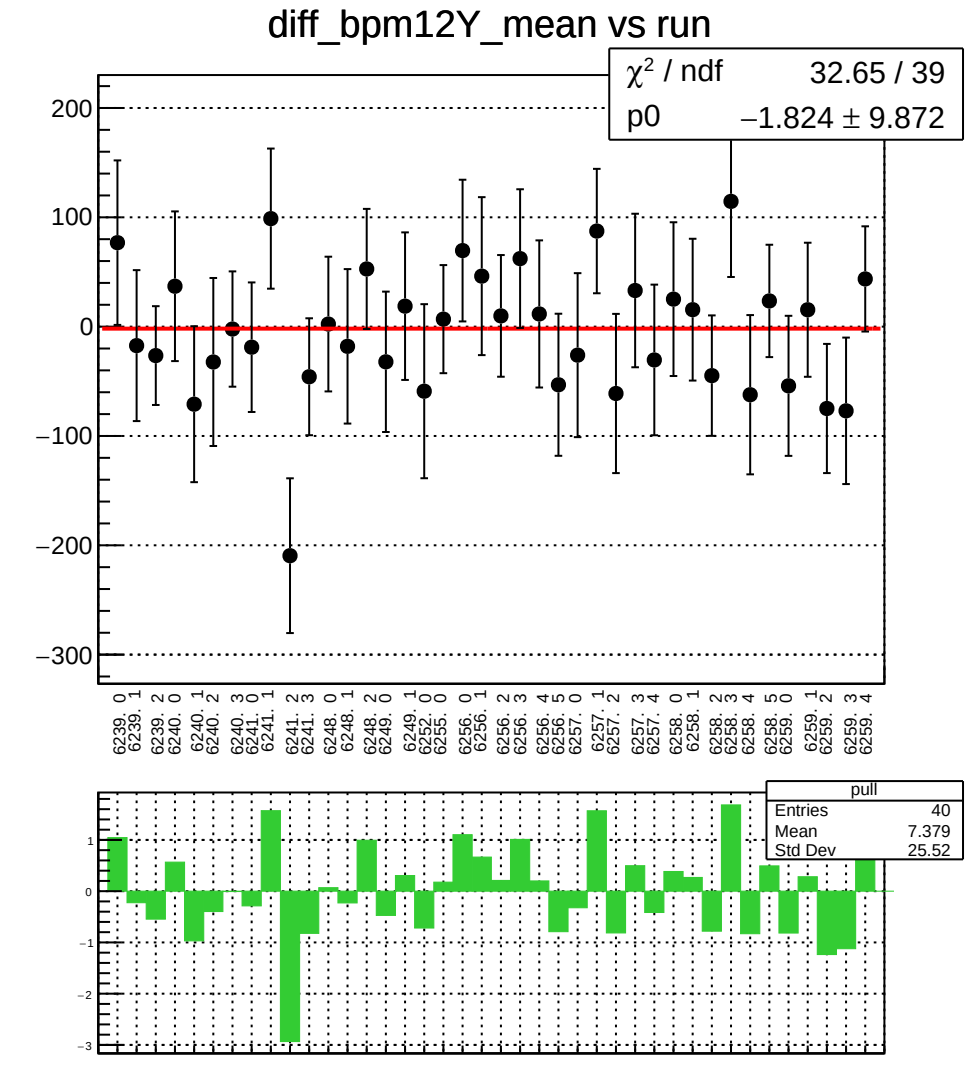

pull1D
Entries 40
Mean −0.02189
Std Dev 0.933
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

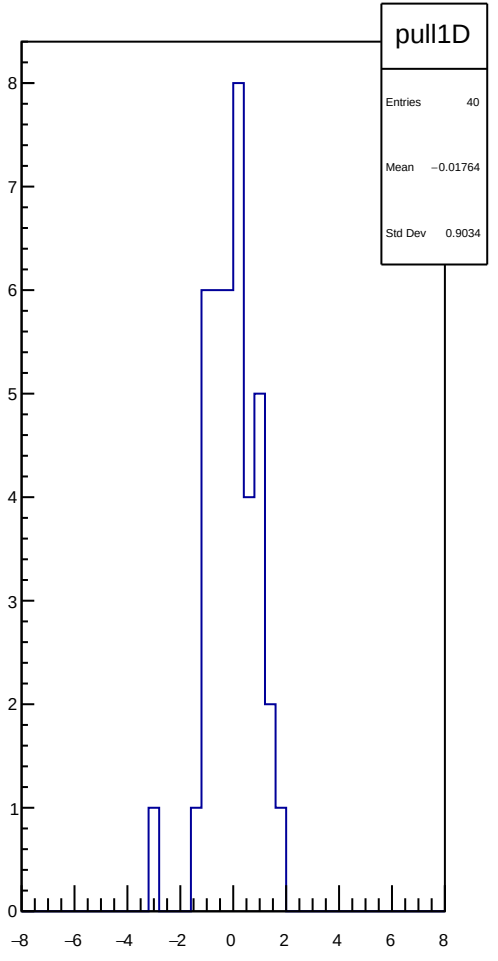

diff_bpm11Y_rms vs run
χ² / ndf 8522 / 39
p0 8780 ± 9.793
11000
10000
9000
8000
7000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

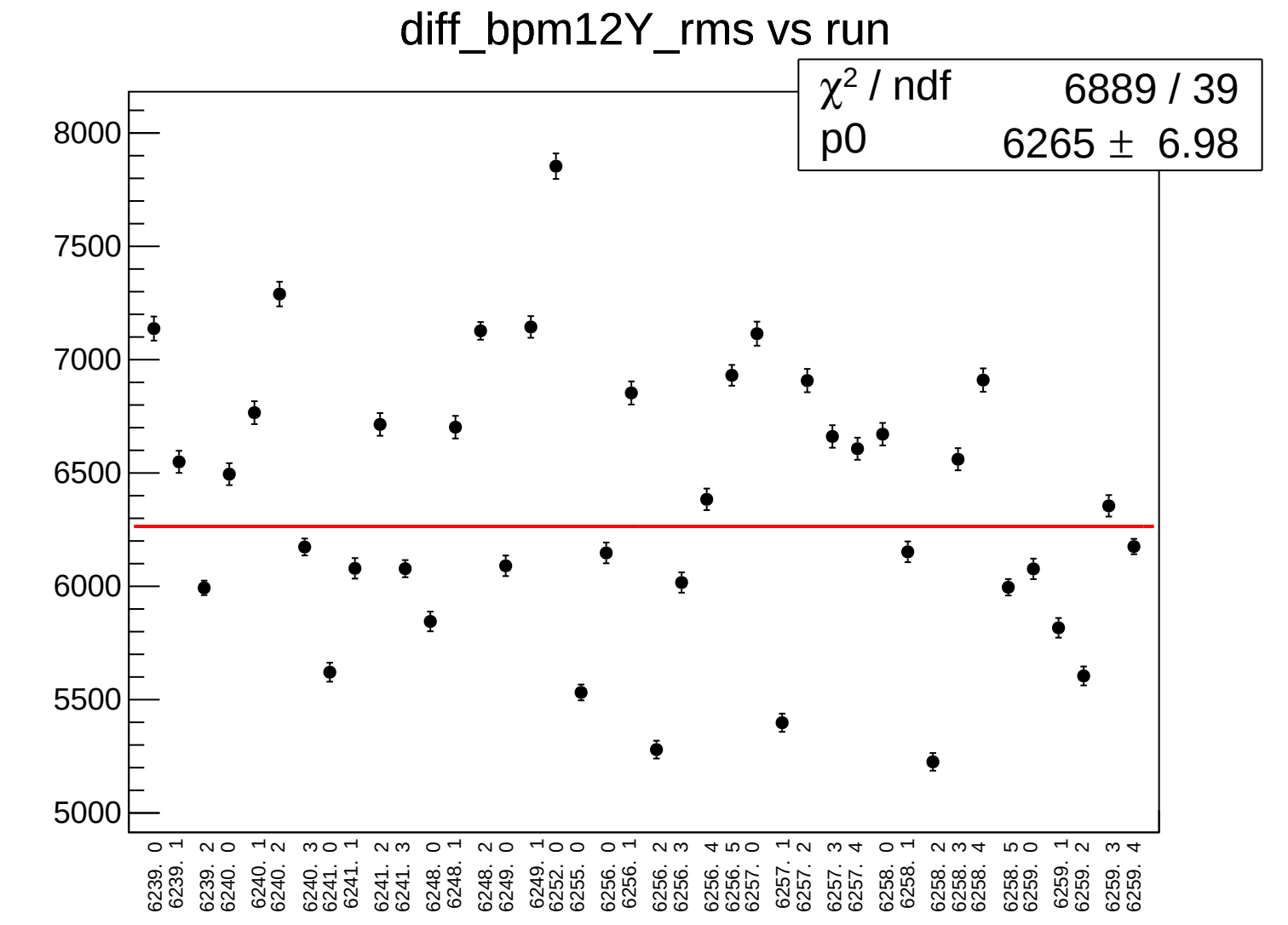

diff_bpm12X_mean vs run
χ² / ndf 48.25 / 39
p0 −45.76 ± 50.19
1000
500
0
−500
−1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 63.36
Std Dev 60
2
1
0
−1
−2

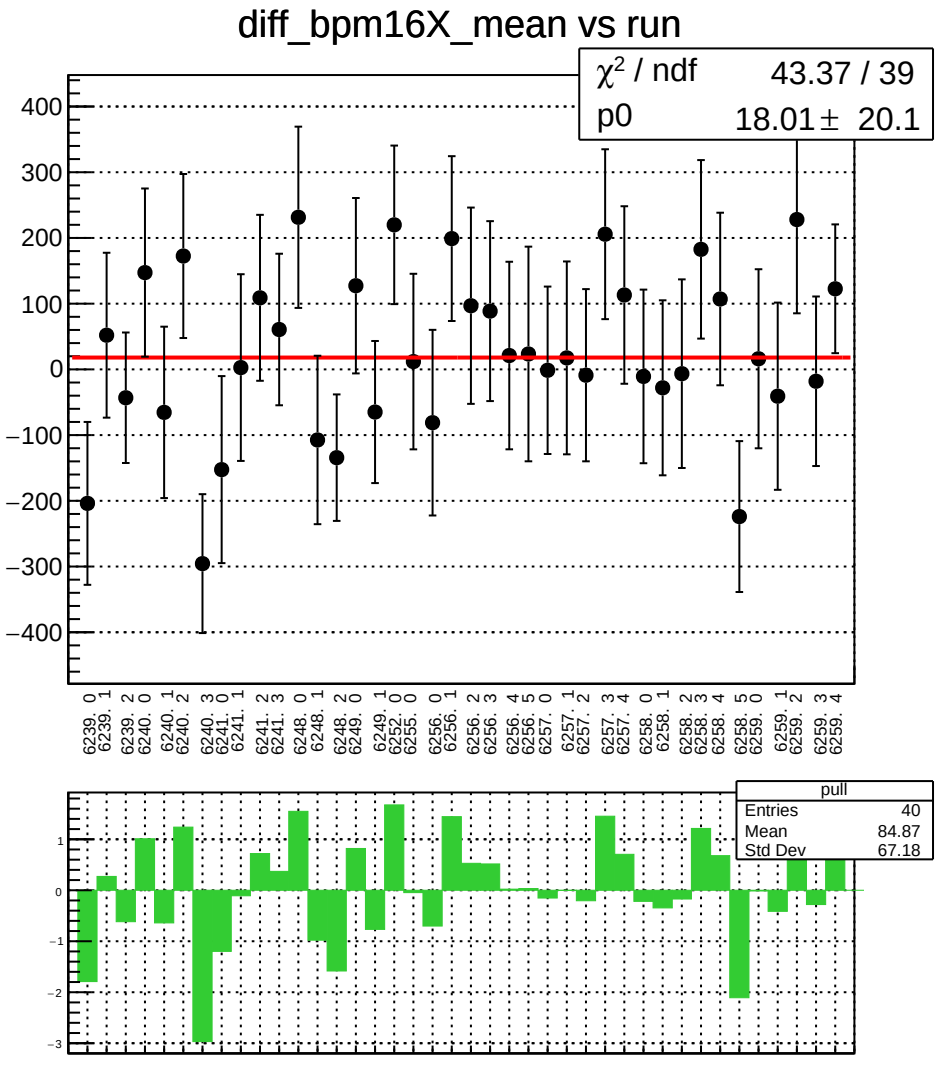

pull1D
Entries 40
Mean 0.01729
Std Dev 1.098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

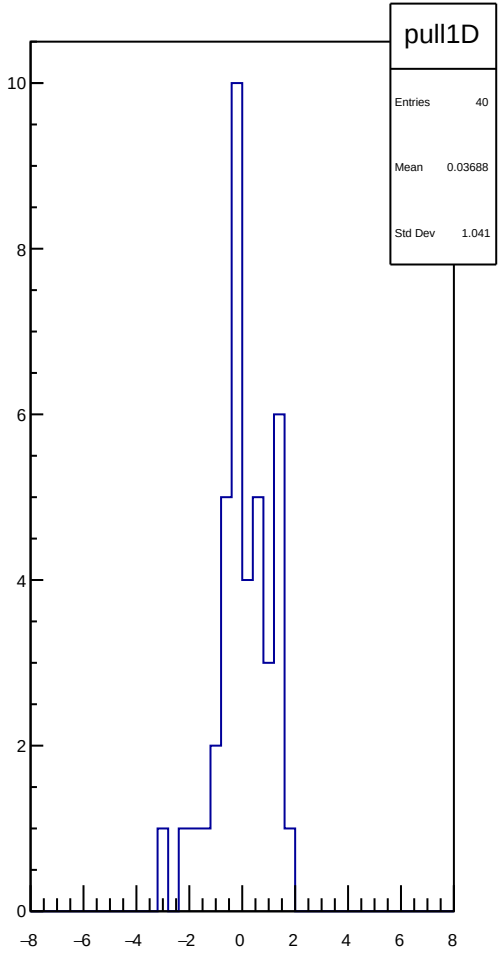

diff_bpm12X_rms vs run
χ² / ndf 931.4 / 39
p0 3.197e+04 ± 35.49
36000
35000
34000
33000
32000
31000
30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

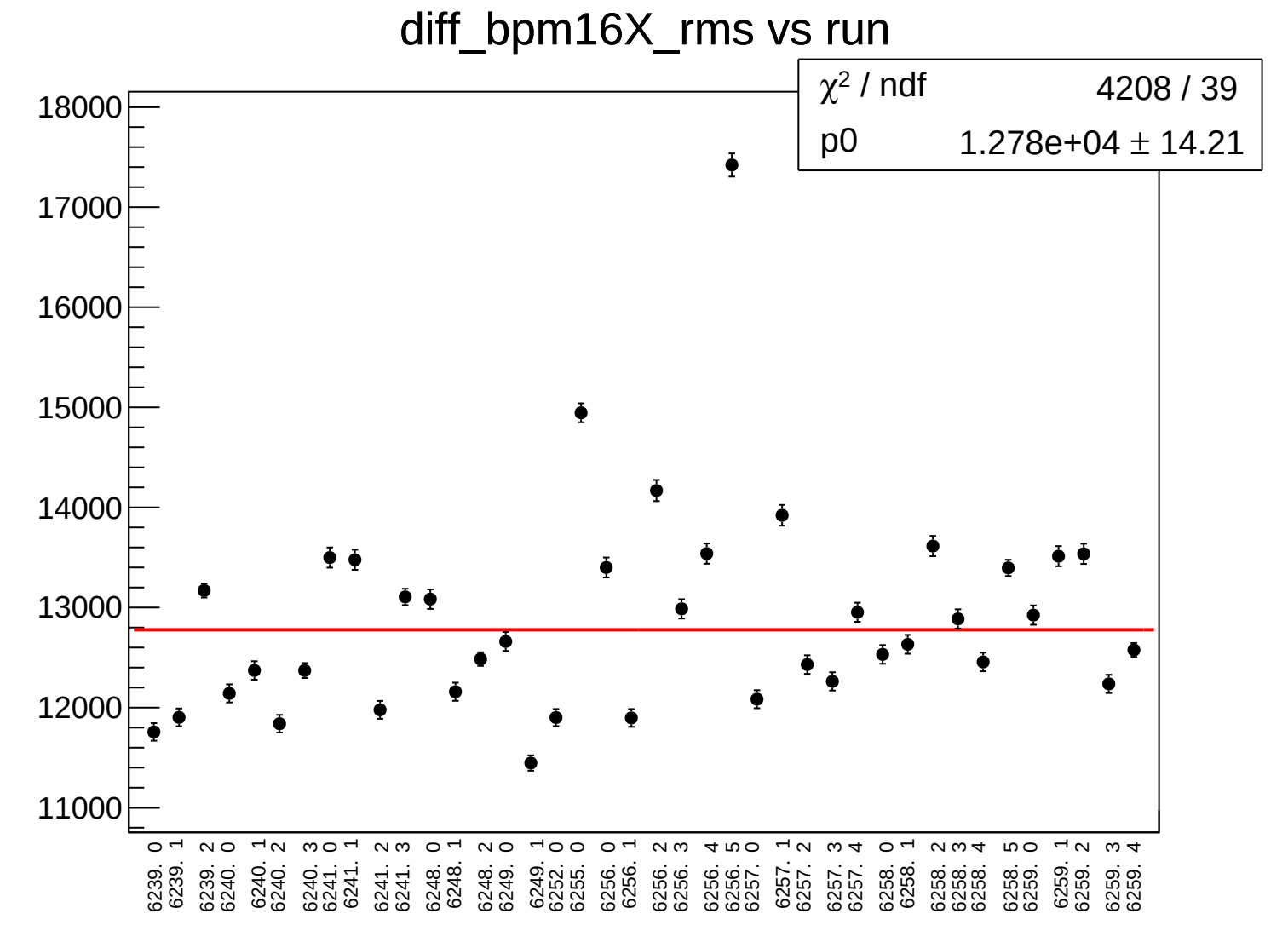

diff_bpm12Y_mean vs run
χ² / ndf 32.65 / 39
p0 −1.824 ± 9.872
200
100
0
−100
−200
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 7.379
Std Dev 25.52
1
0
−1
−2
−3

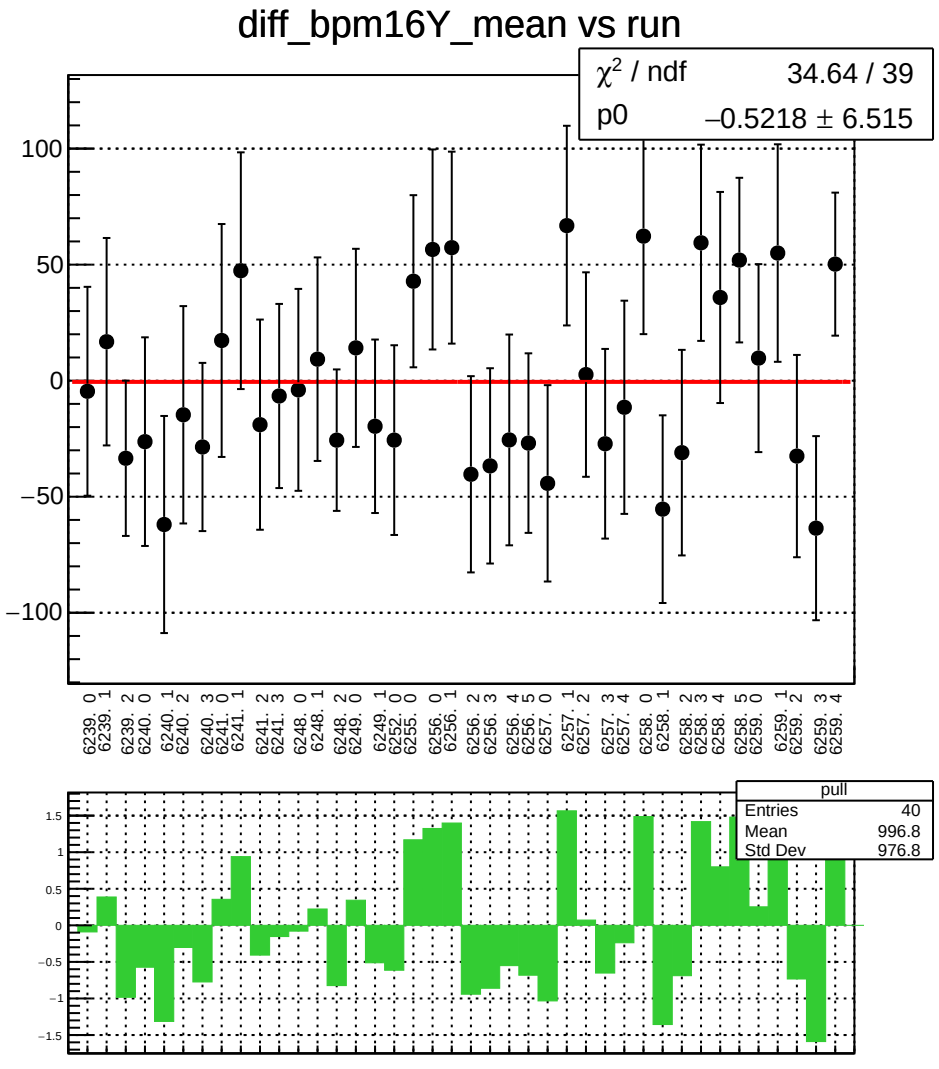

pull1D
Entries 40
Mean −0.01764
Std Dev 0.9034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

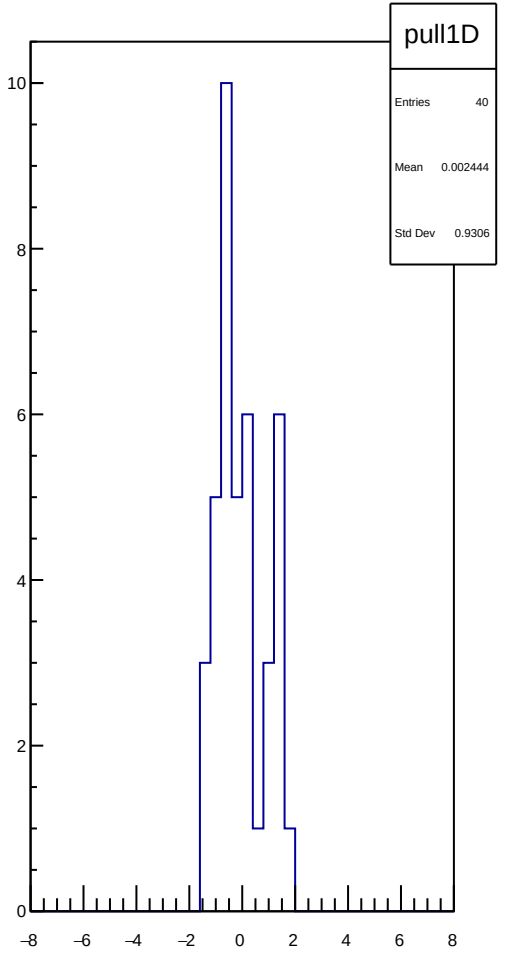

diff_bpm12Y_rms vs run
χ² / ndf 6889 / 39
p0 6265 ± 6.98
8000
7500
7000
6500
6000
5500
5000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

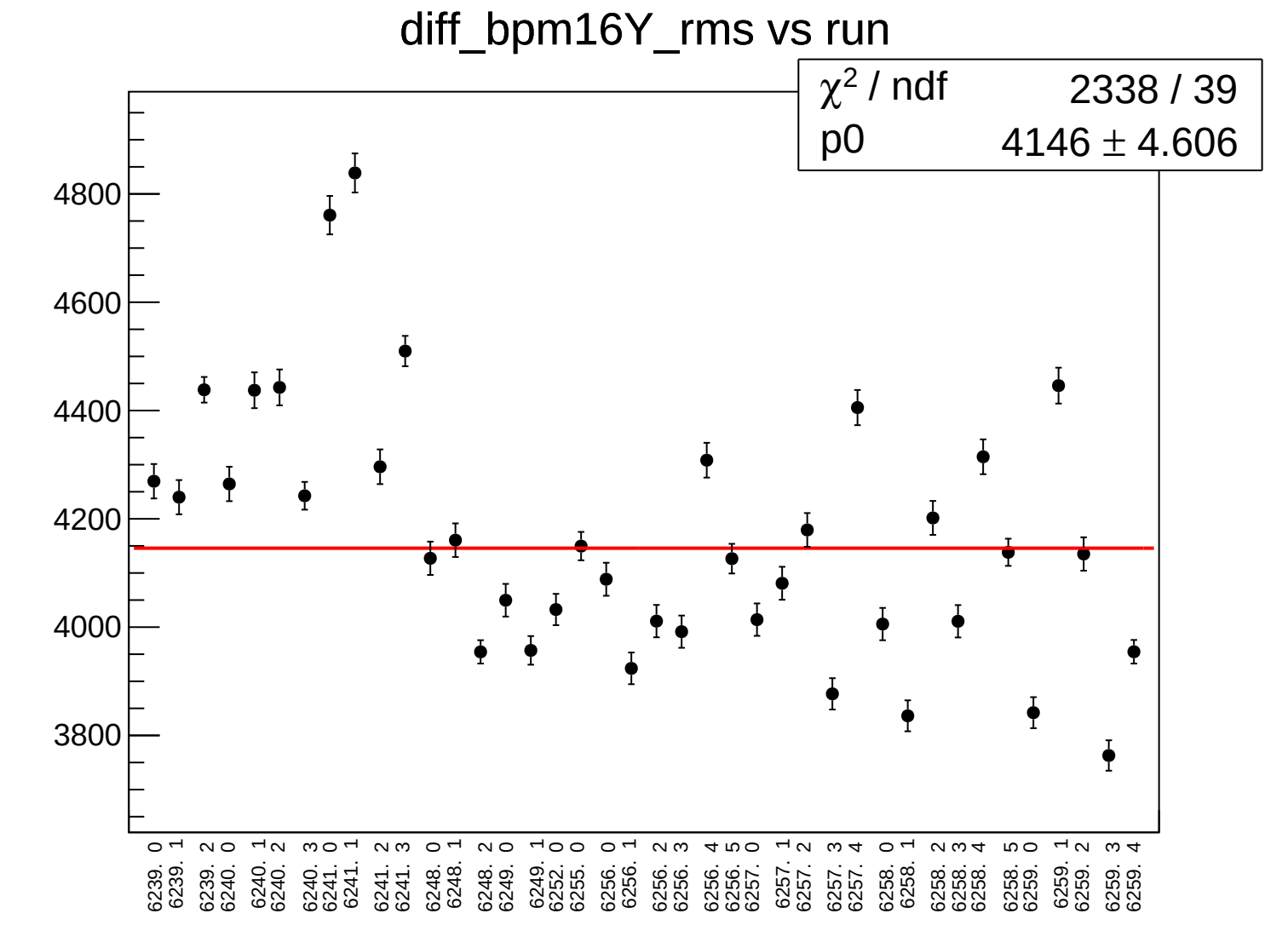

diff_bpm16X_mean vs run
χ² / ndf 43.37 / 39
p0 18.01 ± 20.1
400
300
200
100
0
−100
−200
−300
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 84.87
Std Dev 67.18
1
0
−1
−2
−3

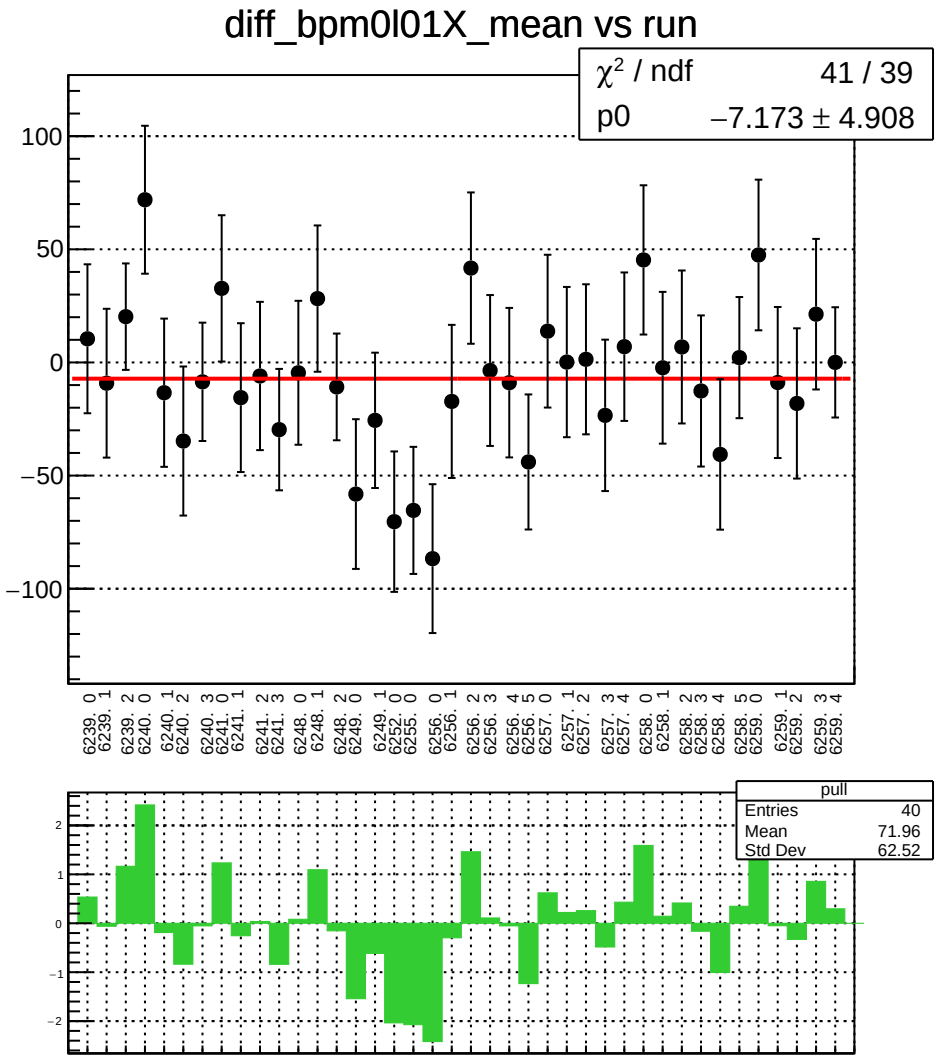

pull1D
Entries 40
Mean 0.03688
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

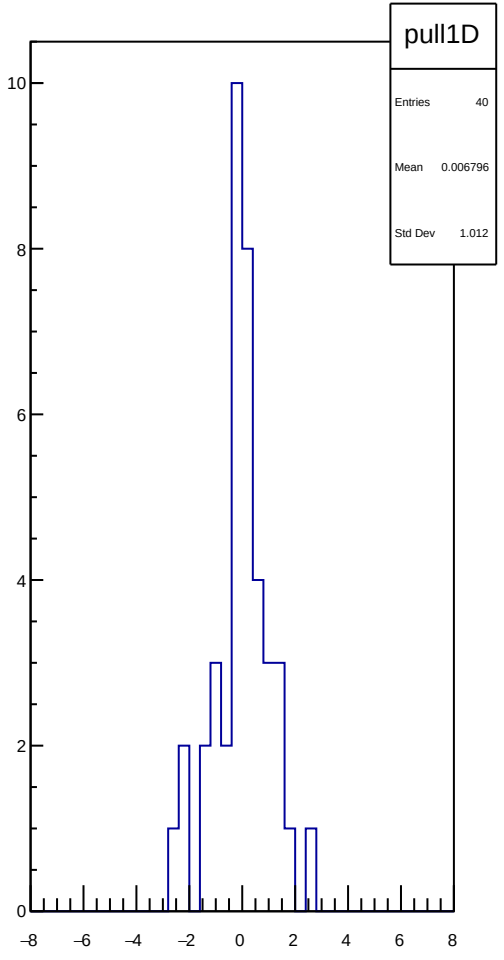

diff_bpm16X_rms vs run
χ² / ndf 4208 / 39
p0 1.278e+04 ± 14.21
18000
17000
16000
15000
14000
13000
12000
11000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

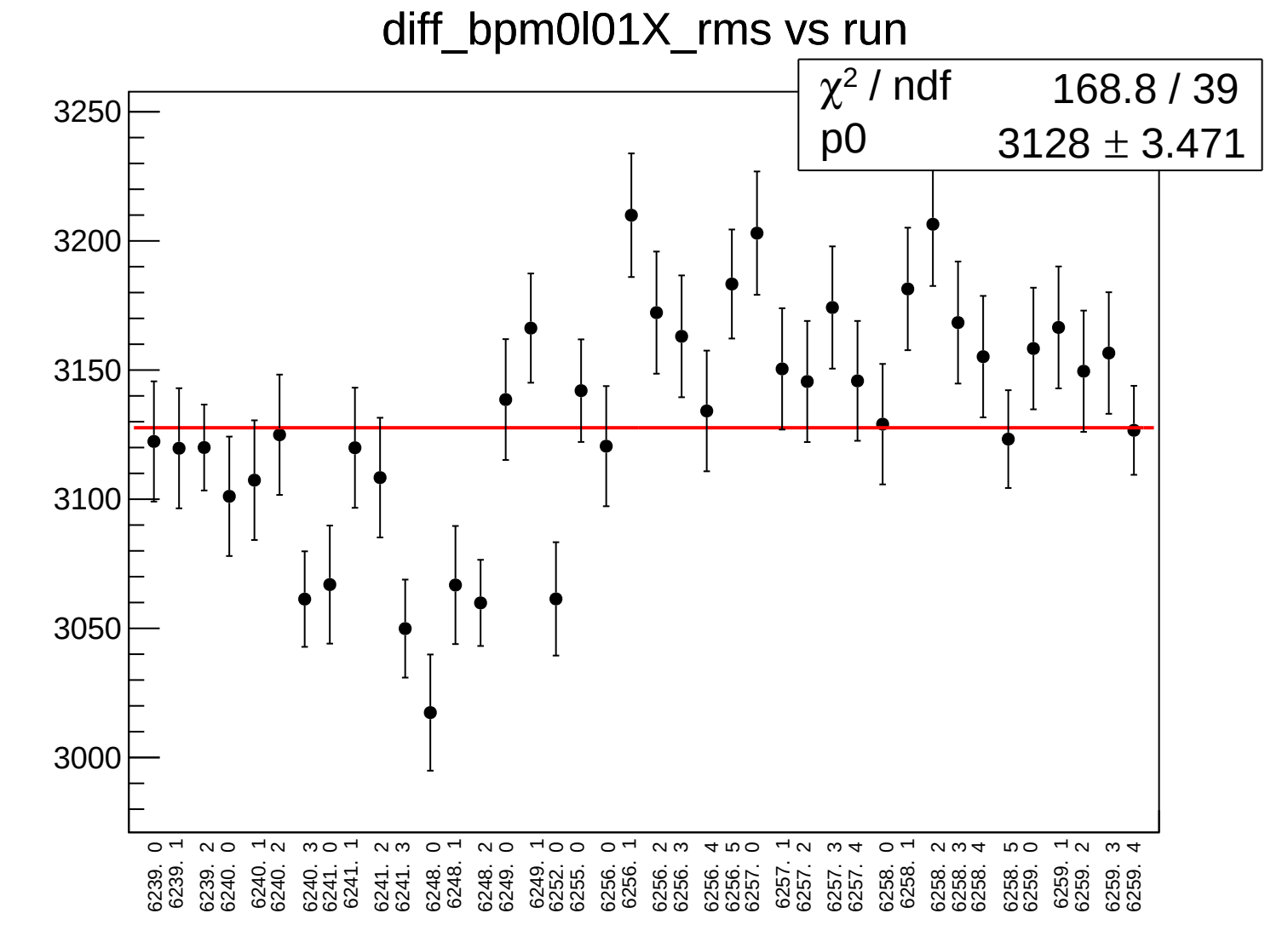

diff_bpm16Y_mean vs run
χ² / ndf 34.64 / 39
p0 −0.5218 ± 6.515
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 996.8
Std Dev 976.8
1.5
1
0.5
0
−0.5
−1
−1.5

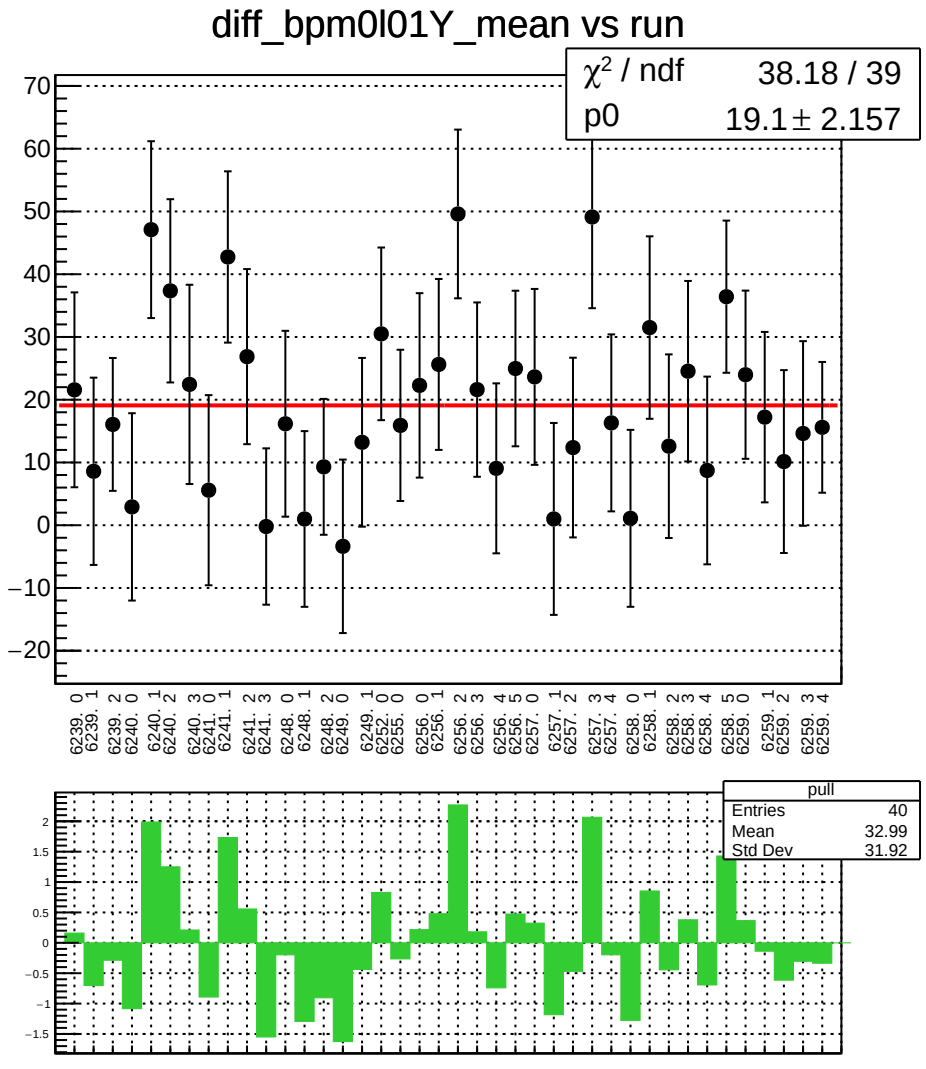

pull1D
Entries 40
Mean 0.002444
Std Dev 0.9306
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

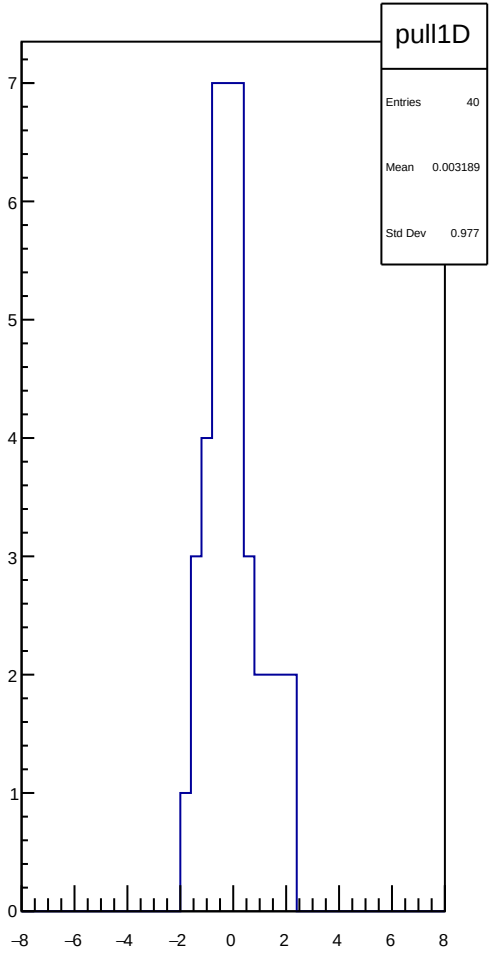

diff_bpm16Y_rms vs run
χ² / ndf 2338 / 39
p0 4146 ± 4.606
4800
4600
4400
4200
4000
3800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

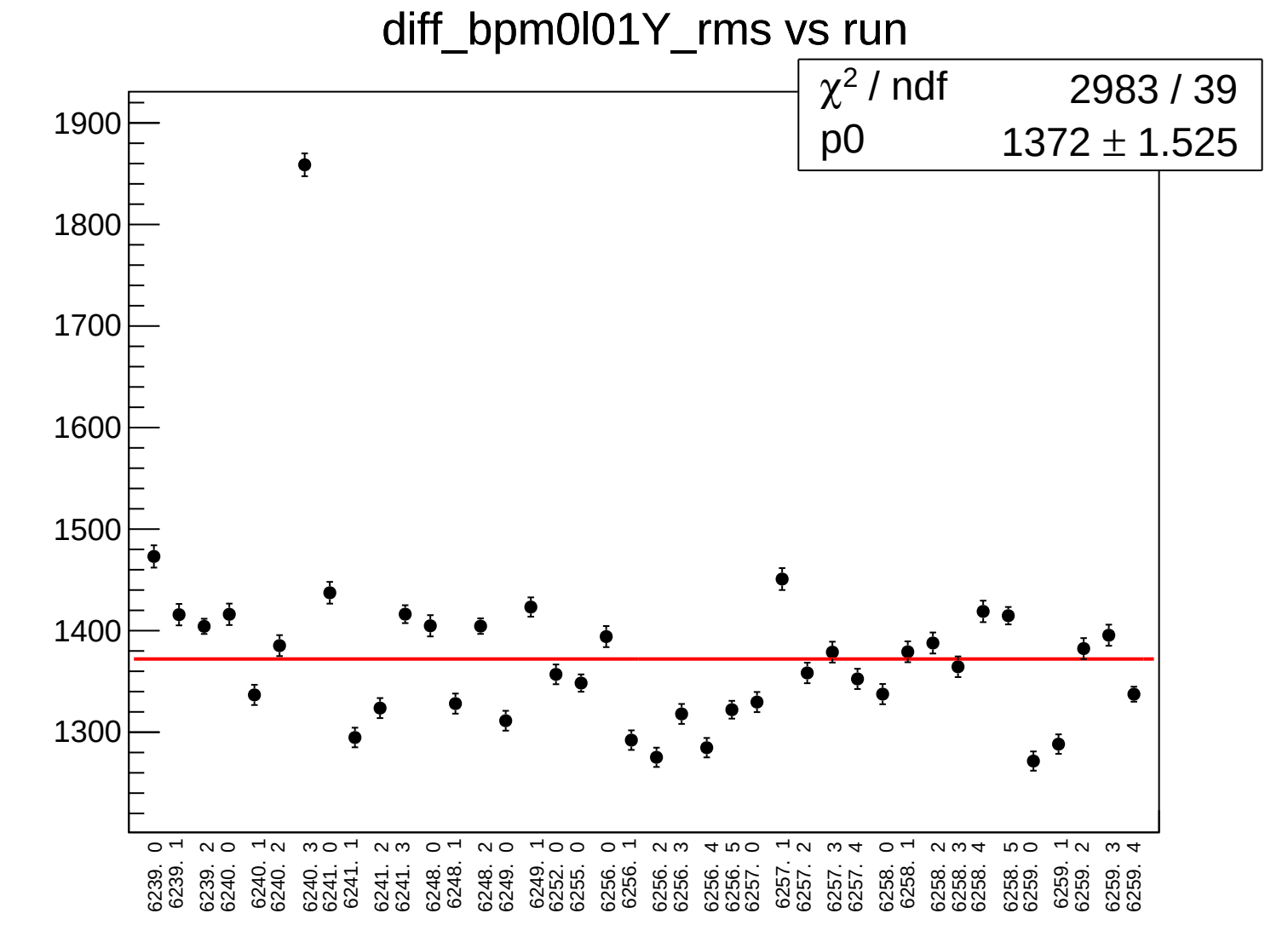

diff_bpm0l01X_mean vs run
χ² / ndf 41 / 39
p0 −7.173 ± 4.908
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 71.96
Std Dev 62.52
2
1
0
−1
−2

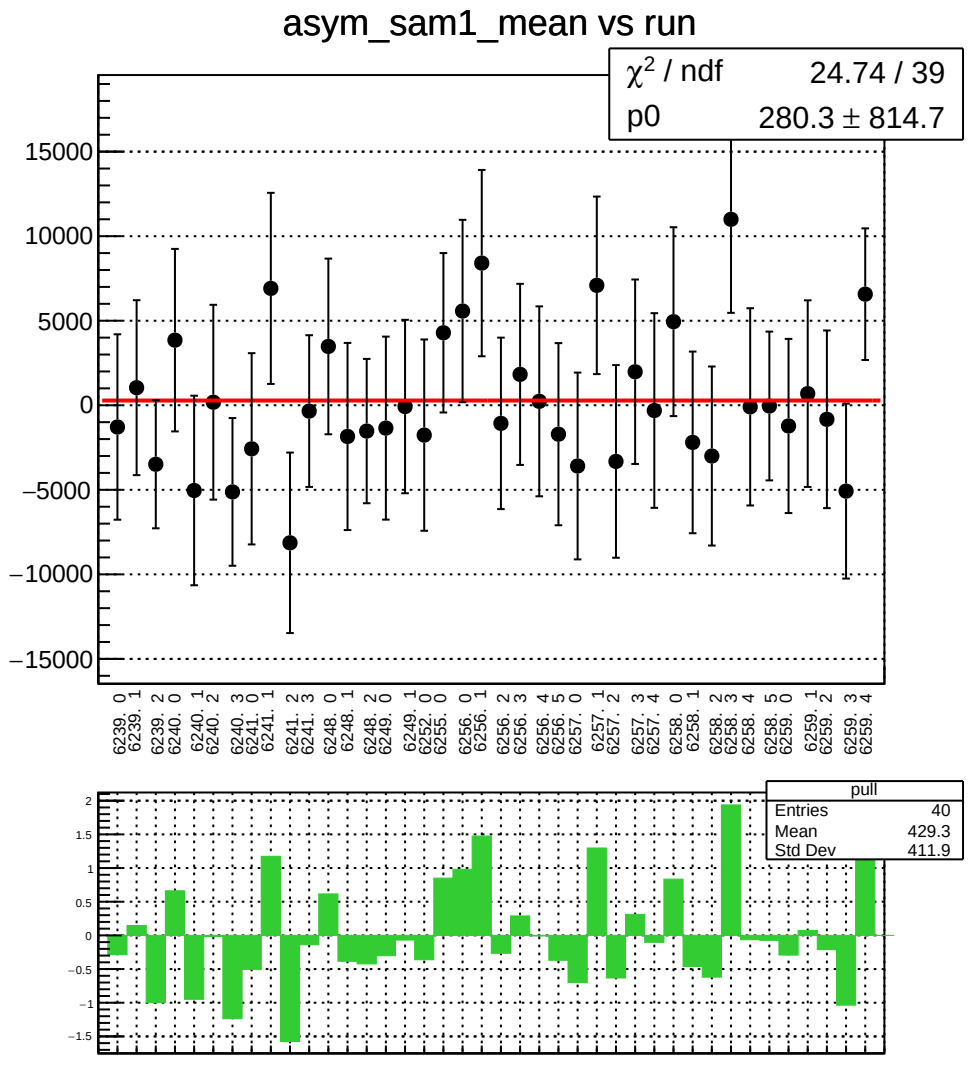

pull1D
Entries 40
Mean 0.006796
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

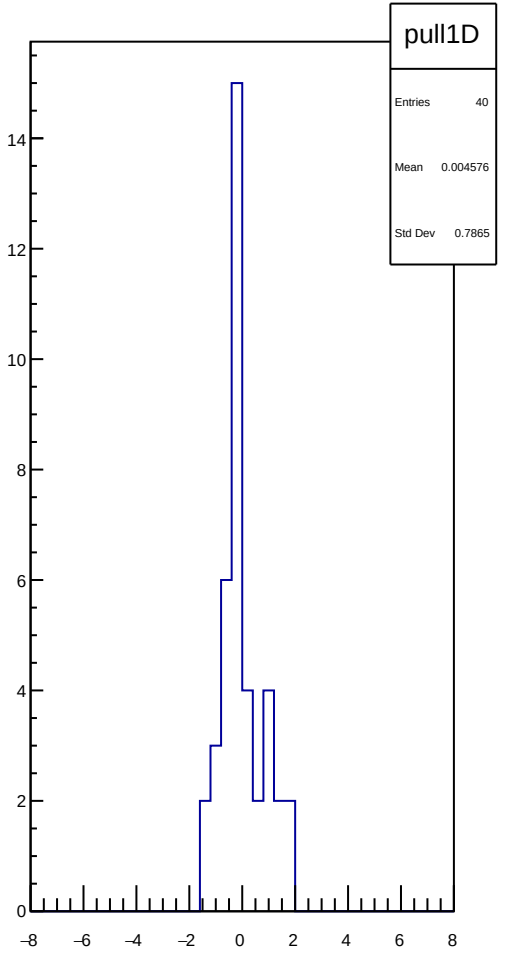

diff_bpm0l01X_rms vs run
χ² / ndf 168.8 / 39
p0 3128 ± 3.471
3250
3200
3150
3100
3050
3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

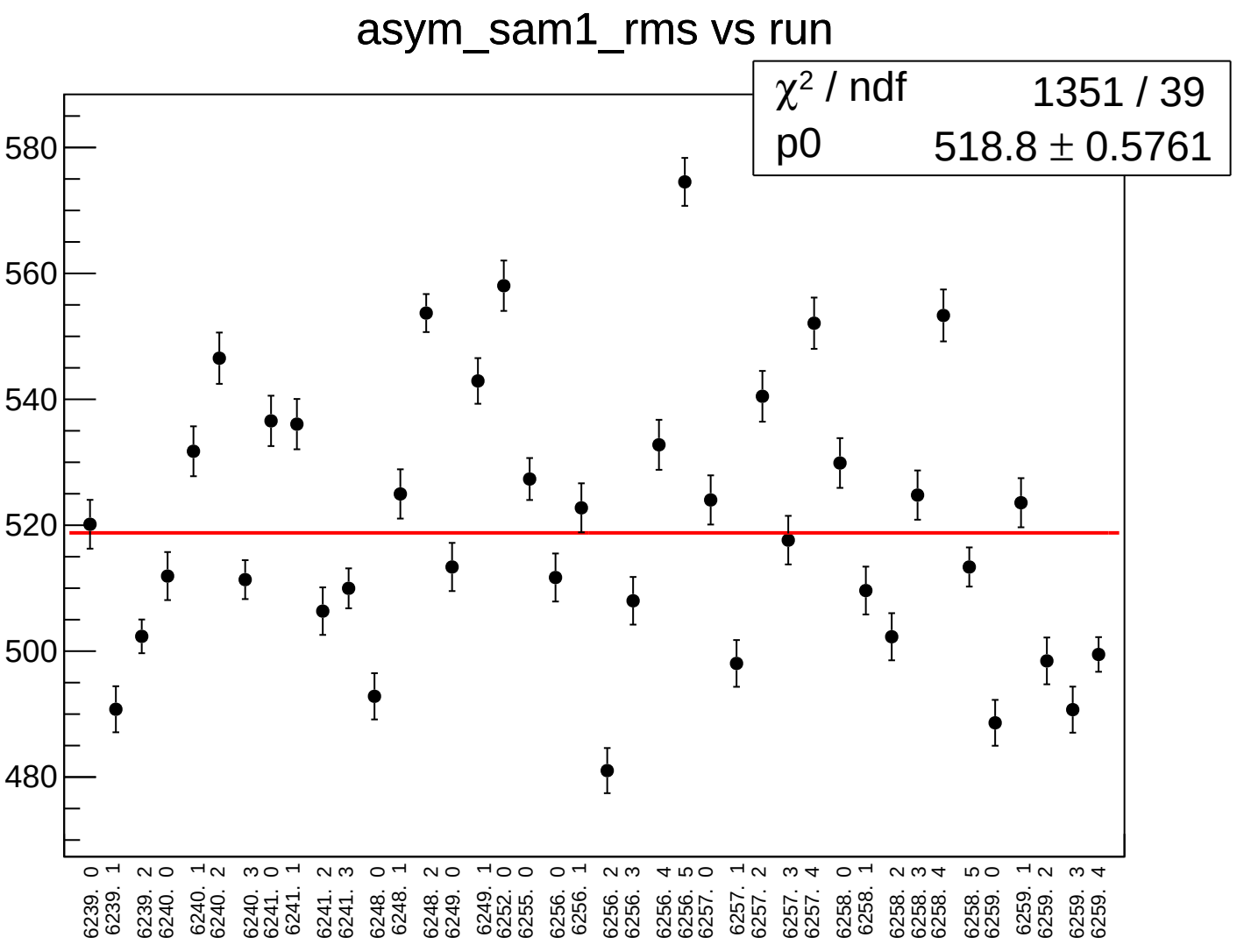

diff_bpm0l01Y_mean vs run
$\chi^2$ / ndf 38.18 / 39
p0 19.1 ± 2.157
pull
Entries 40
Mean 32.99
Std Dev 31.92

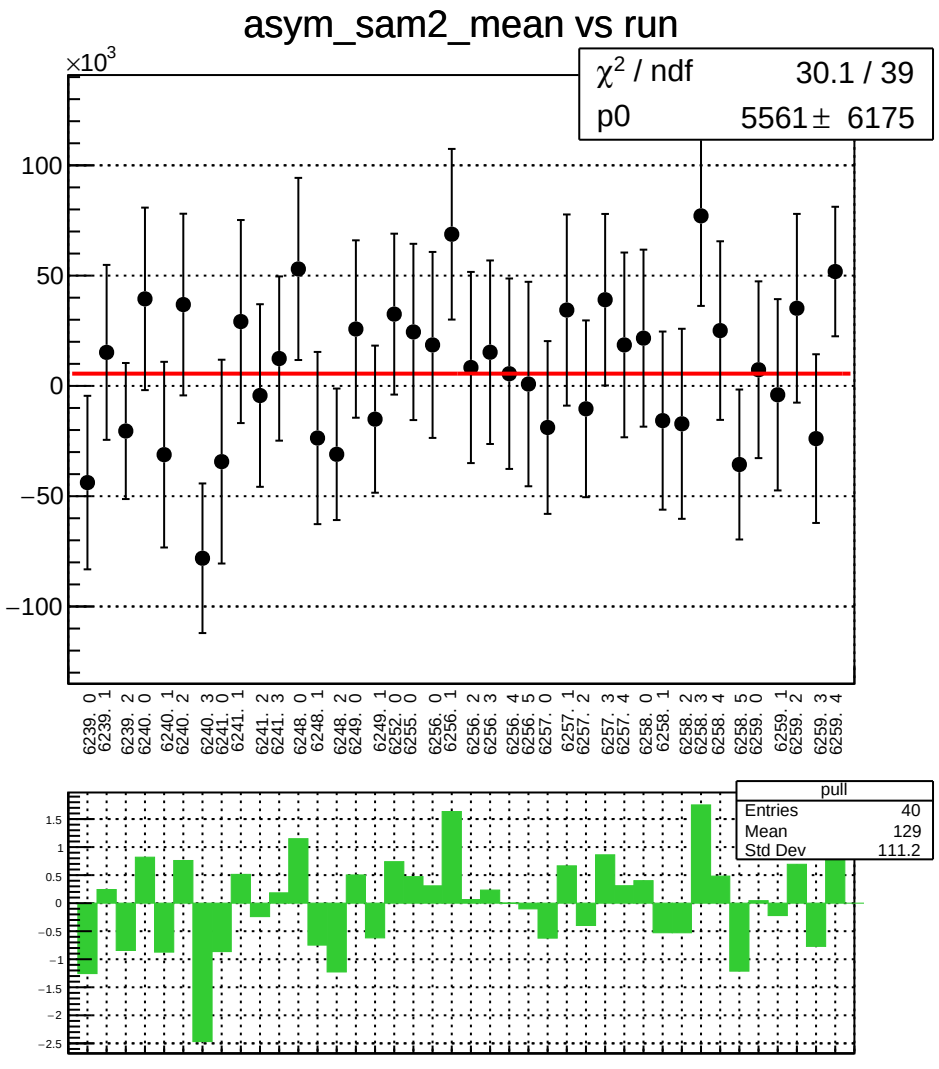

pull1D
Entries 40
Mean 0.003189
Std Dev 0.977

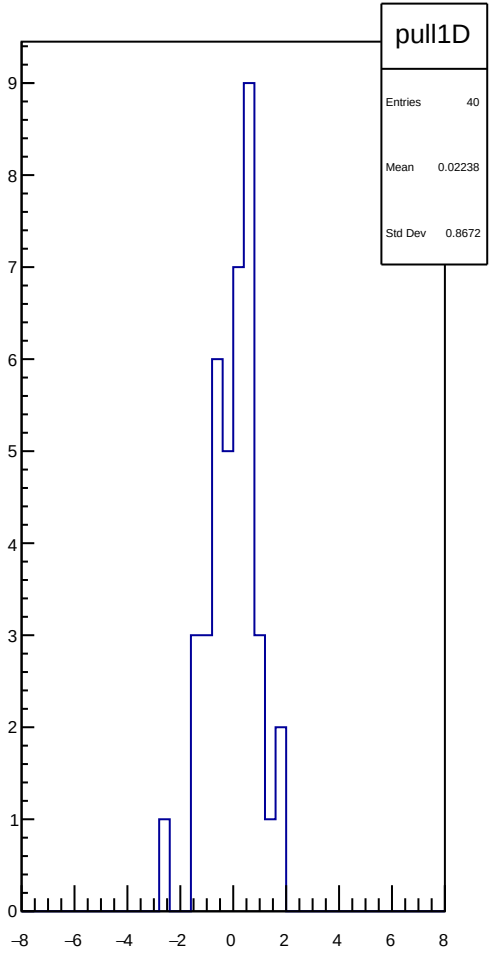

diff_bpm0l01Y_rms vs run
χ² / ndf 2983 / 39
p0 1372 ± 1.525
1900
1800
1700
1600
1500
1400
1300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

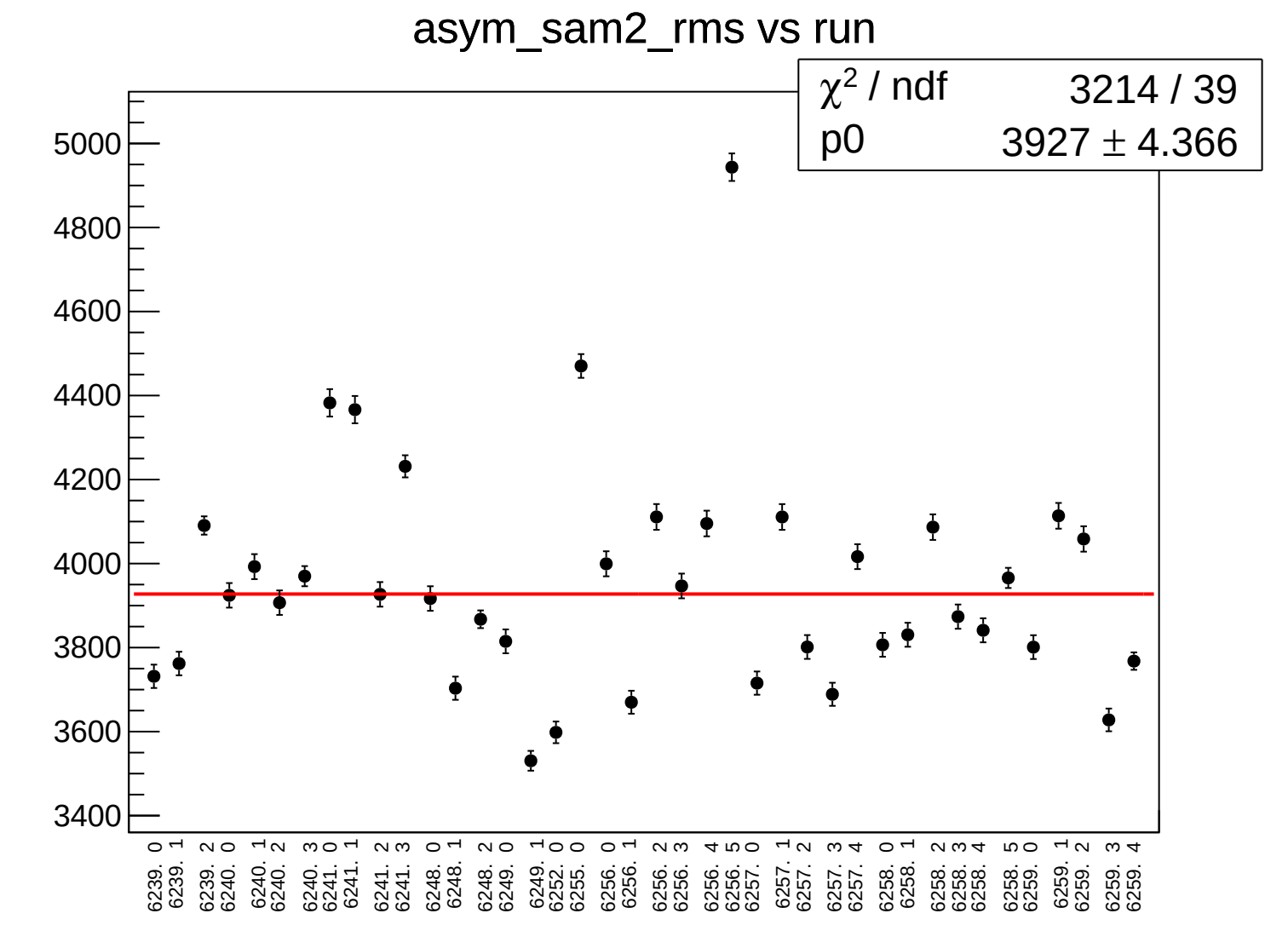

asym_sam1_mean vs run
χ² / ndf 24.74 / 39
p0 280.3 ± 814.7
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 429.3
Std Dev 411.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

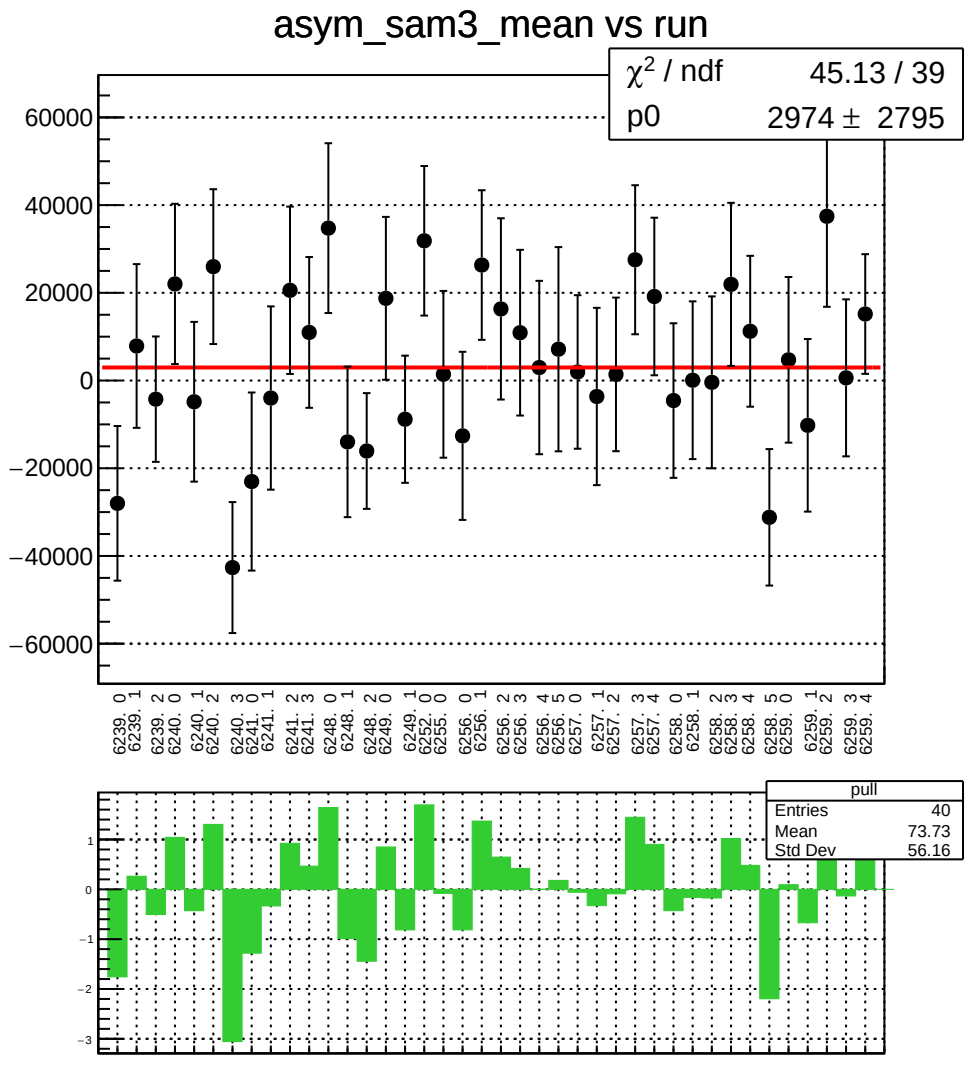

pull1D
Entries 40
Mean 0.004576
Std Dev 0.7865
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

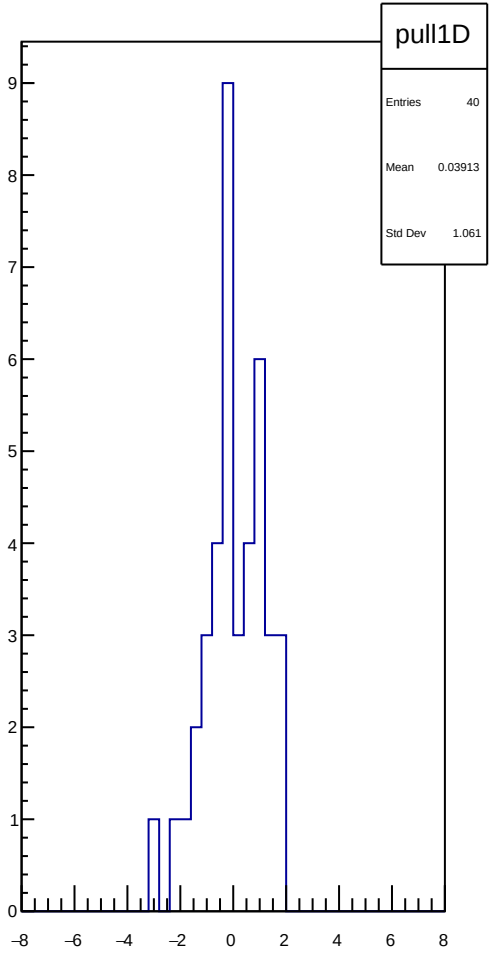

asym_sam1_rms vs run
χ² / ndf 1351 / 39
p0 518.8 ± 0.5761
580
560
540
520
500
480
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

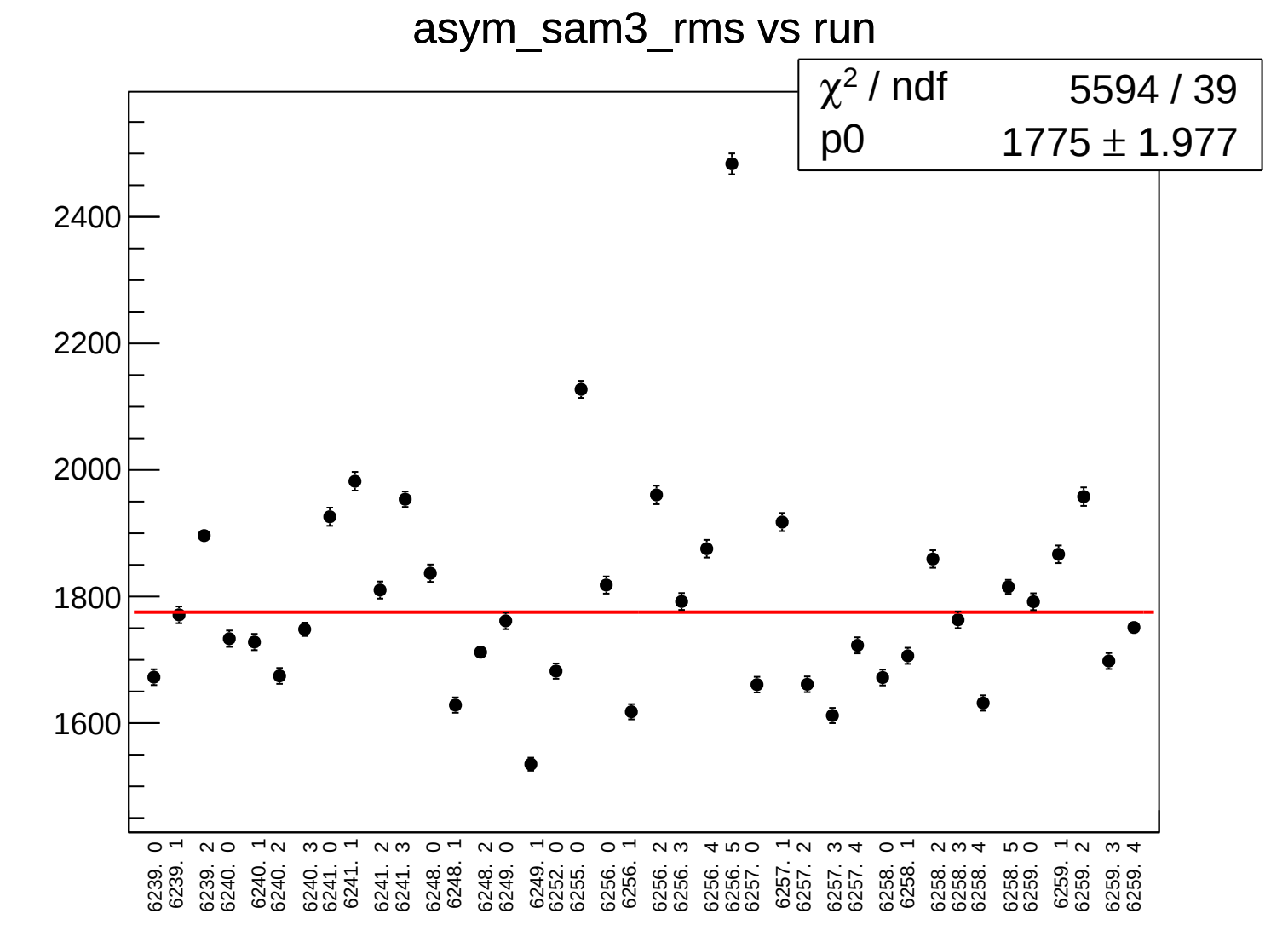

asym_sam2_mean vs run
×10^3
χ^2 / ndf 30.1 / 39
p0 5561 ± 6175
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 129
Std Dev 111.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

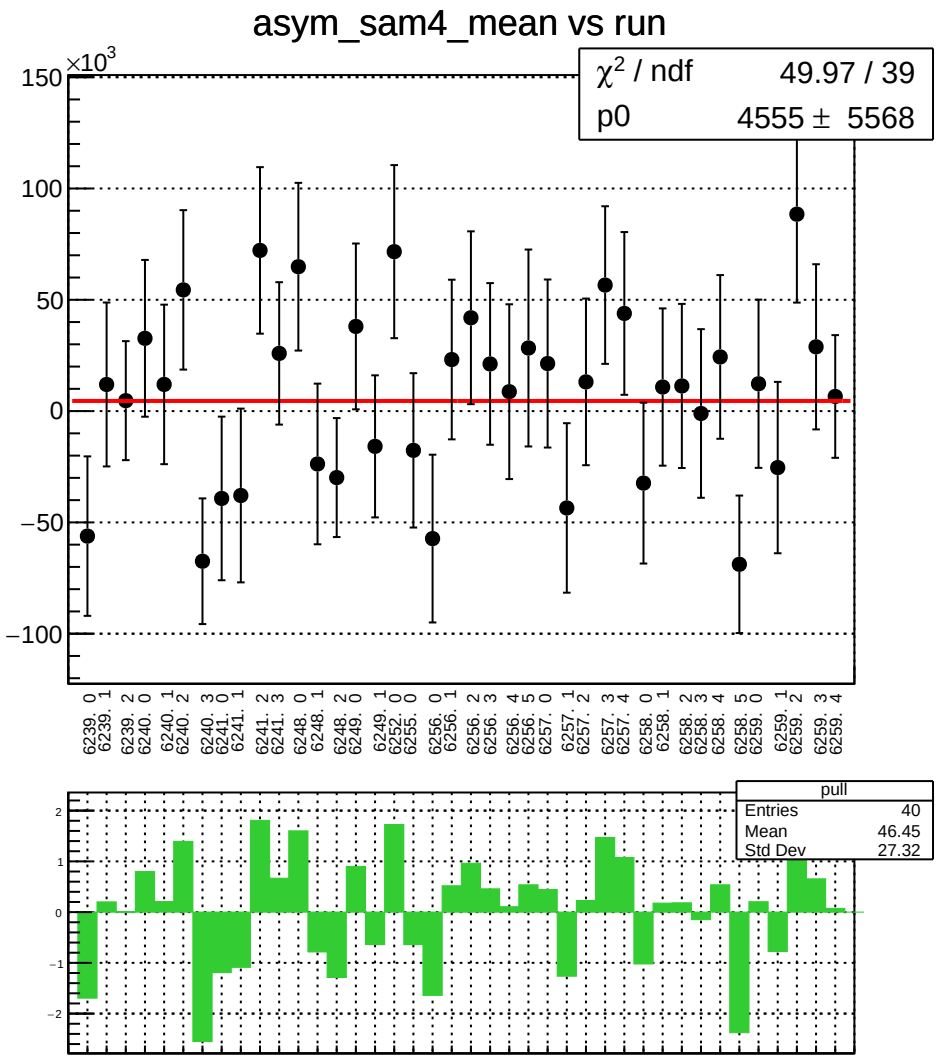

pull1D
Entries 40
Mean 0.02238
Std Dev 0.8672
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

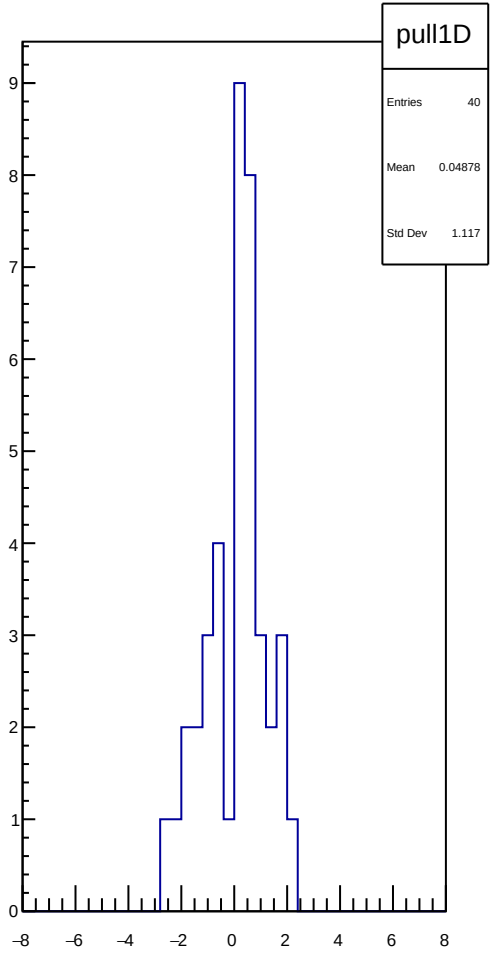

asym_sam2_rms vs run
$\chi^2$ / ndf 3214 / 39
p0 3927 ± 4.366
5000
4800
4600
4400
4200
4000
3800
3600
3400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

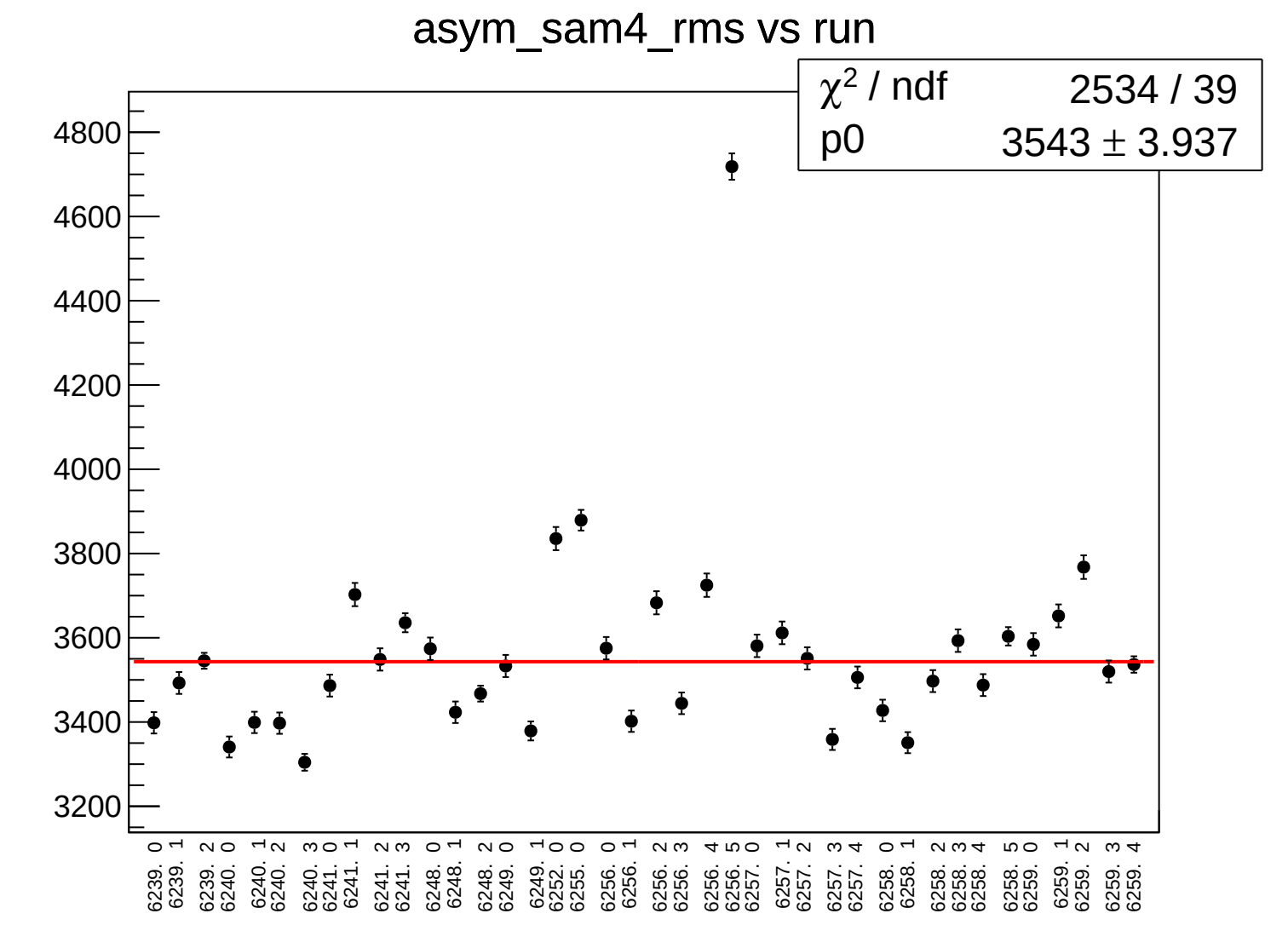

asym_sam3_mean vs run
χ² / ndf 45.13 / 39
p0 2974 ± 2795
60000
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 73.73
Std Dev 56.16
1
0
−1
−2
−3

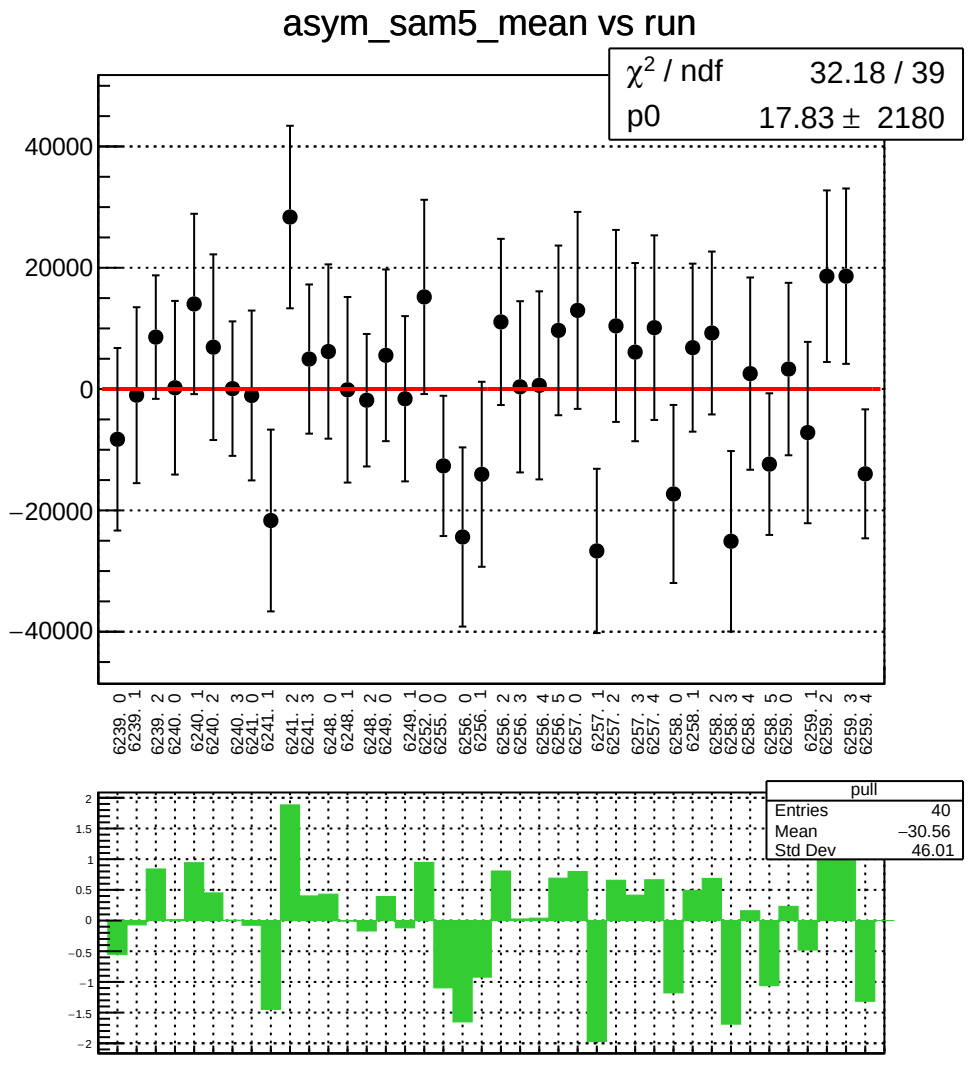

pull1D
Entries 40
Mean 0.03913
Std Dev 1.061
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

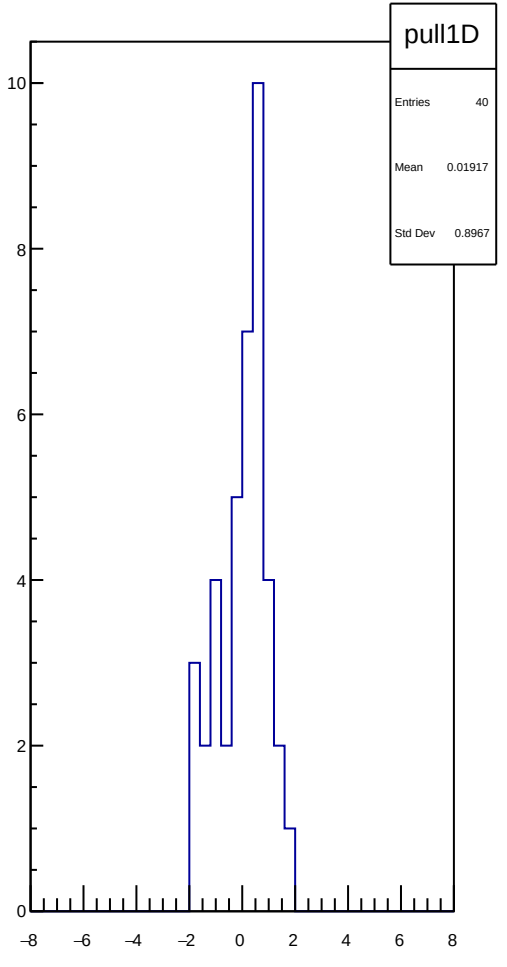

asym_sam3_rms vs run
$\chi^2$ / ndf 5594 / 39
p0 1775 ± 1.977
2400
2200
2000
1800
1600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

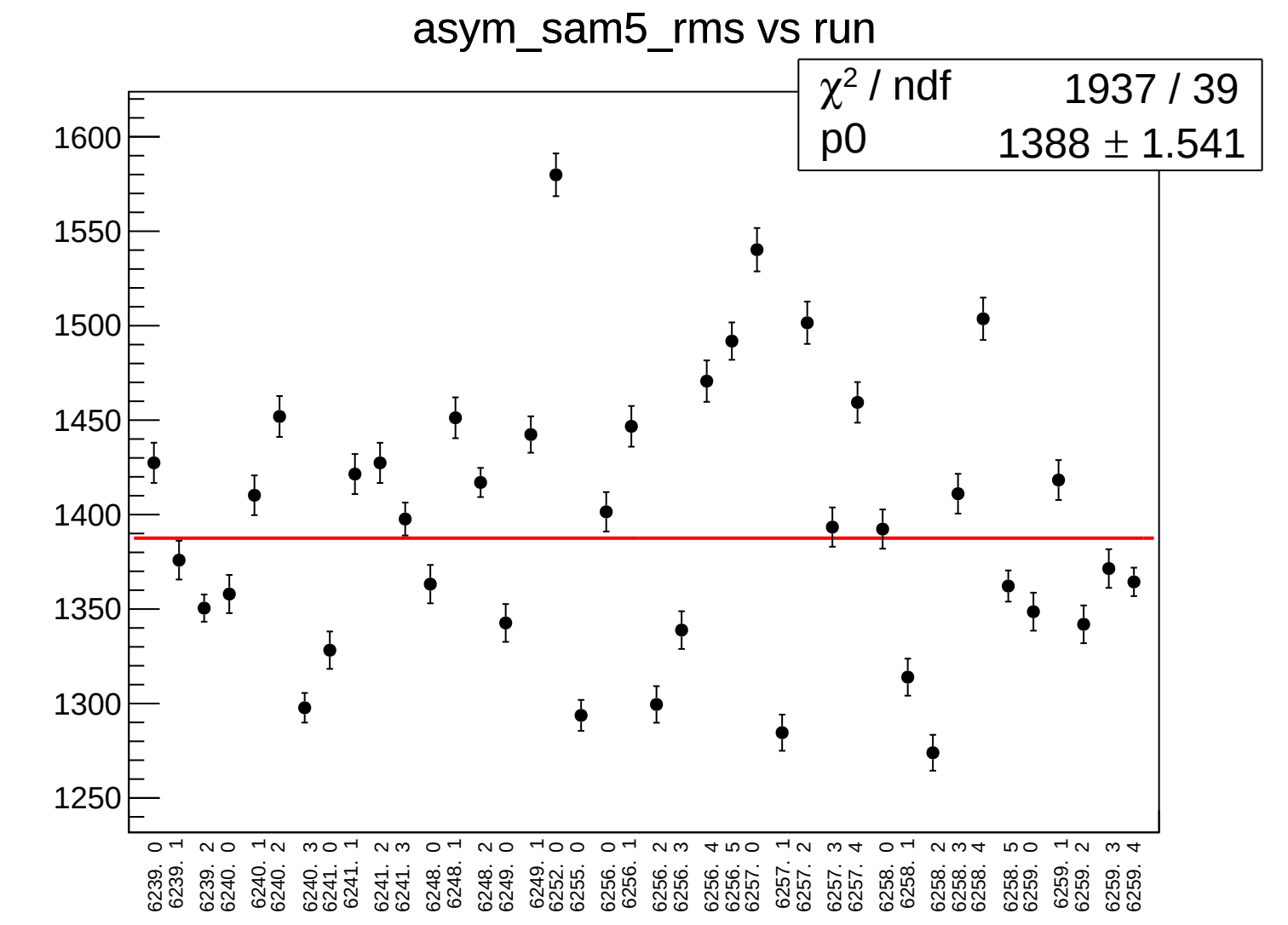

asym_sam4_mean vs run
×10^3
χ^2 / ndf 49.97 / 39
p0 4555 ± 5568
150
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 46.45
Std Dev 27.32
2
1
0
−1
−2

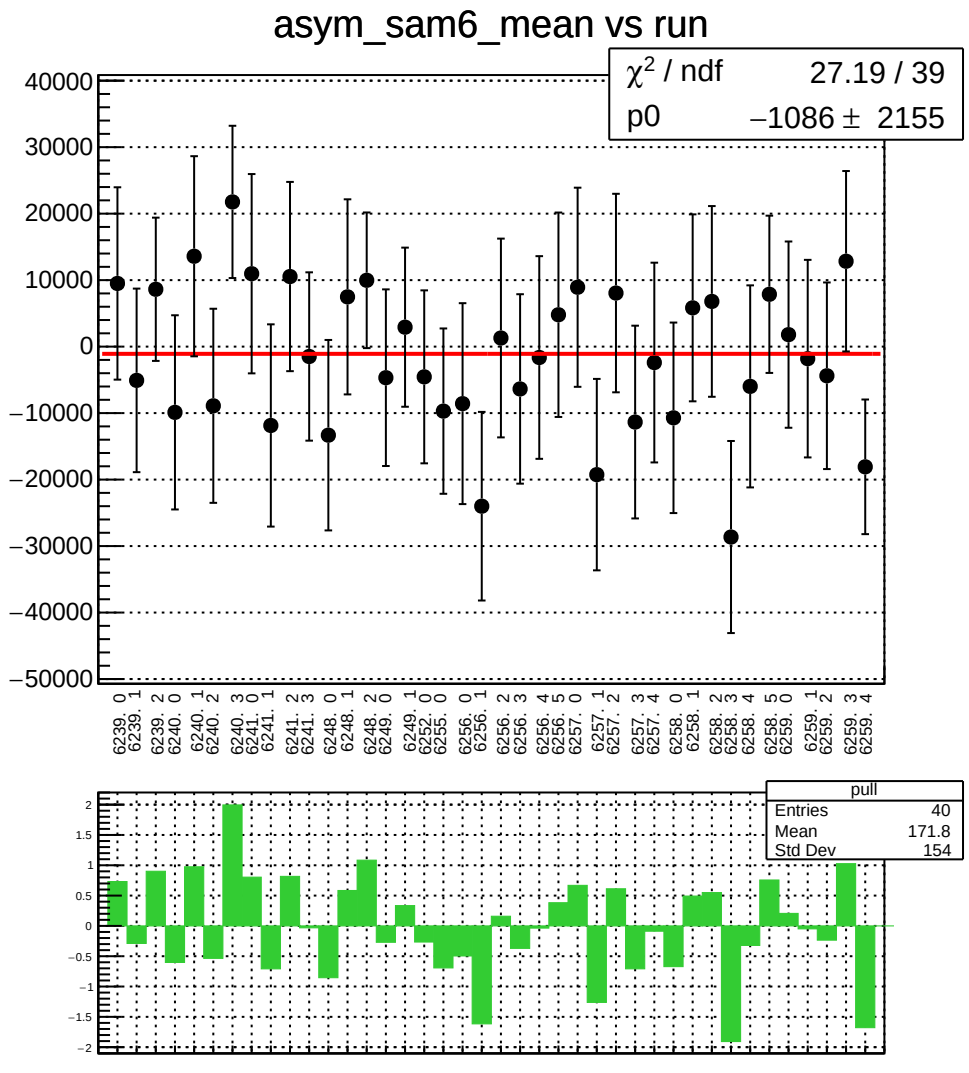

pull1D
Entries 40
Mean 0.04878
Std Dev 1.117
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

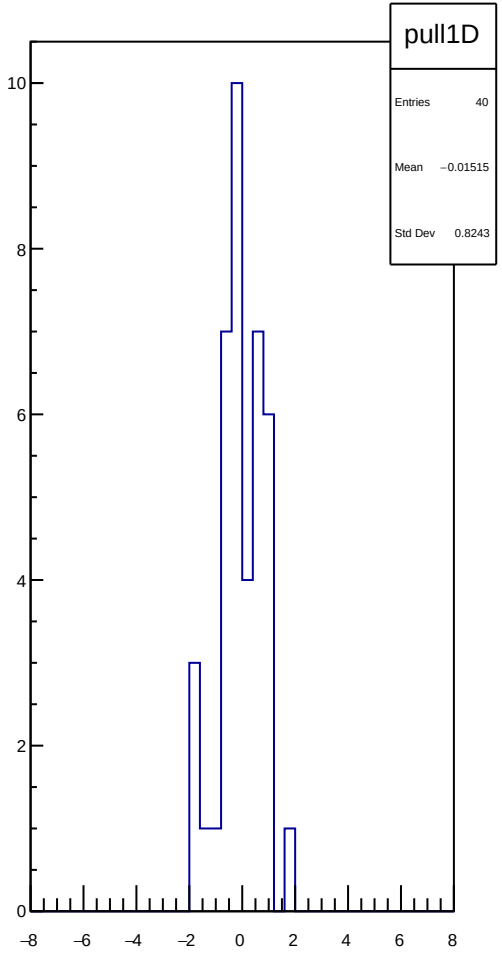

asym_sam4_rms vs run
χ² / ndf 2534 / 39
p0 3543 ± 3.937
4800
4600
4400
4200
4000
3800
3600
3400
3200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

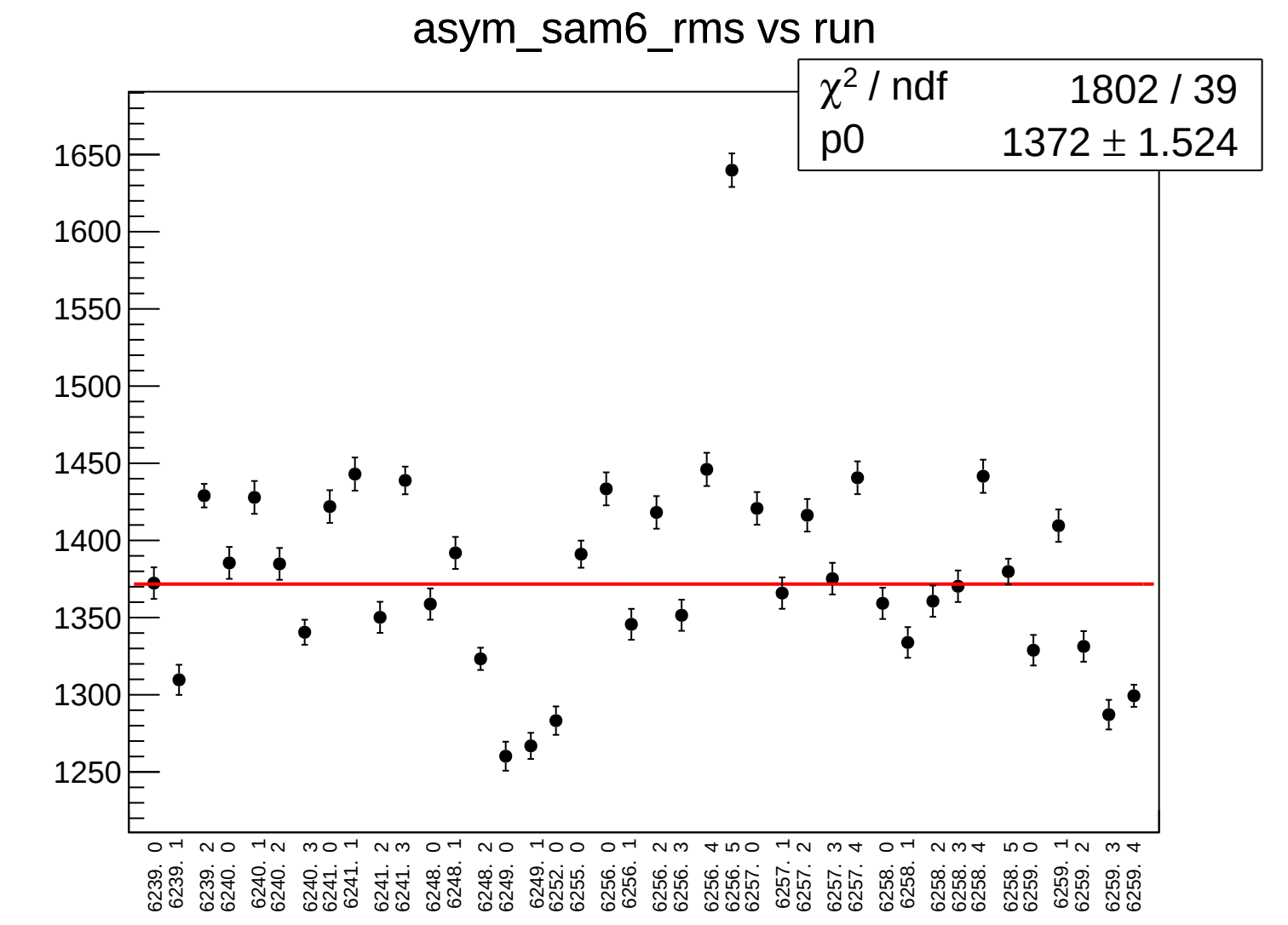

asym_sam5_mean vs run
χ² / ndf 32.18 / 39
p0 17.83 ± 2180
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −30.56
Std Dev 46.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

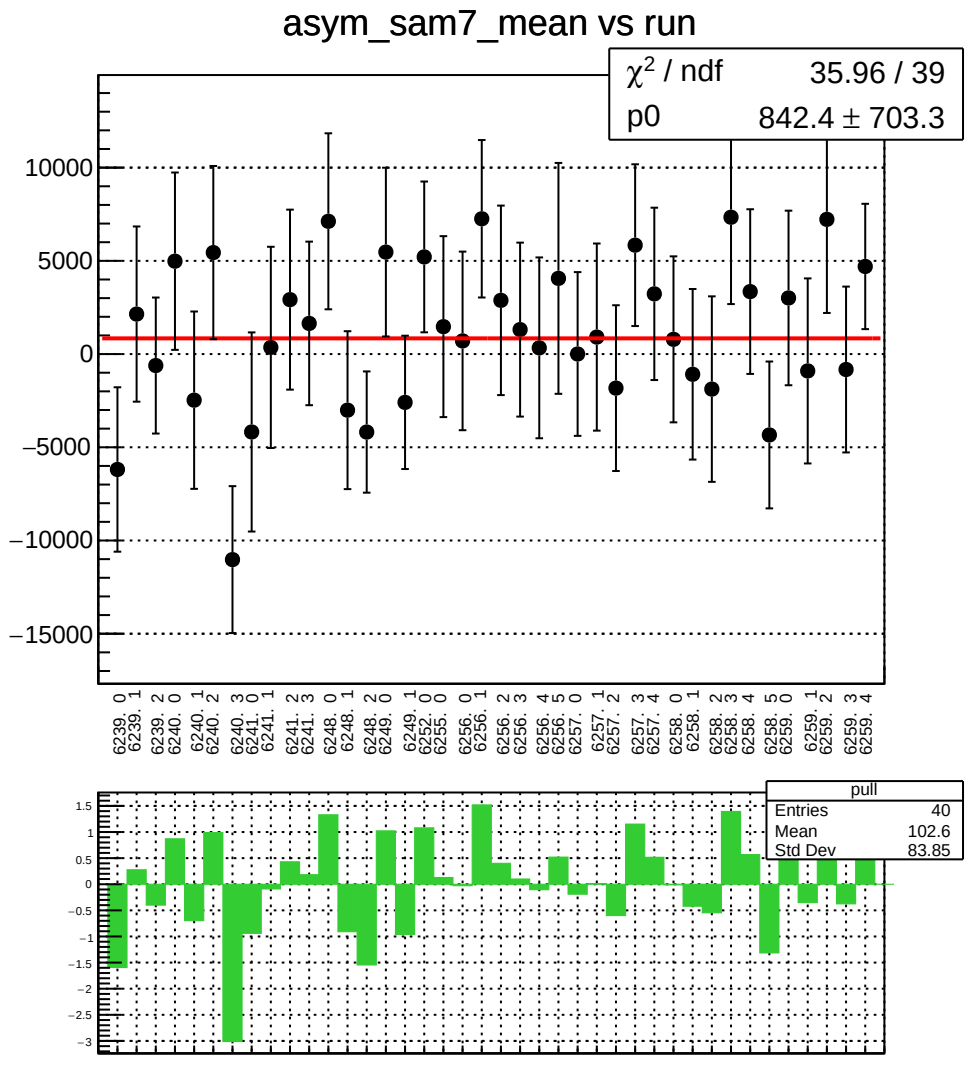

pull1D
Entries 40
Mean 0.01917
Std Dev 0.8967
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

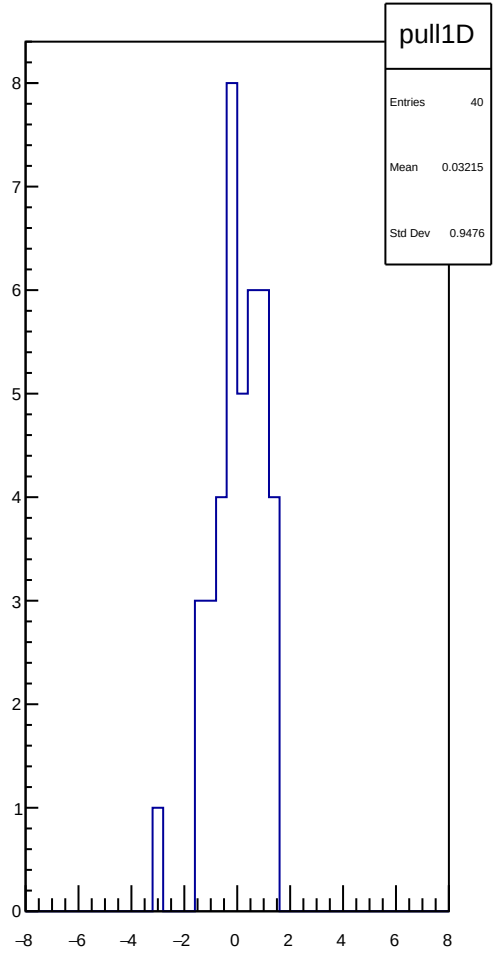

asym_sam5_rms vs run
χ² / ndf 1937 / 39
p0 1388 ± 1.541
1600
1550
1500
1450
1400
1350
1300
1250
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

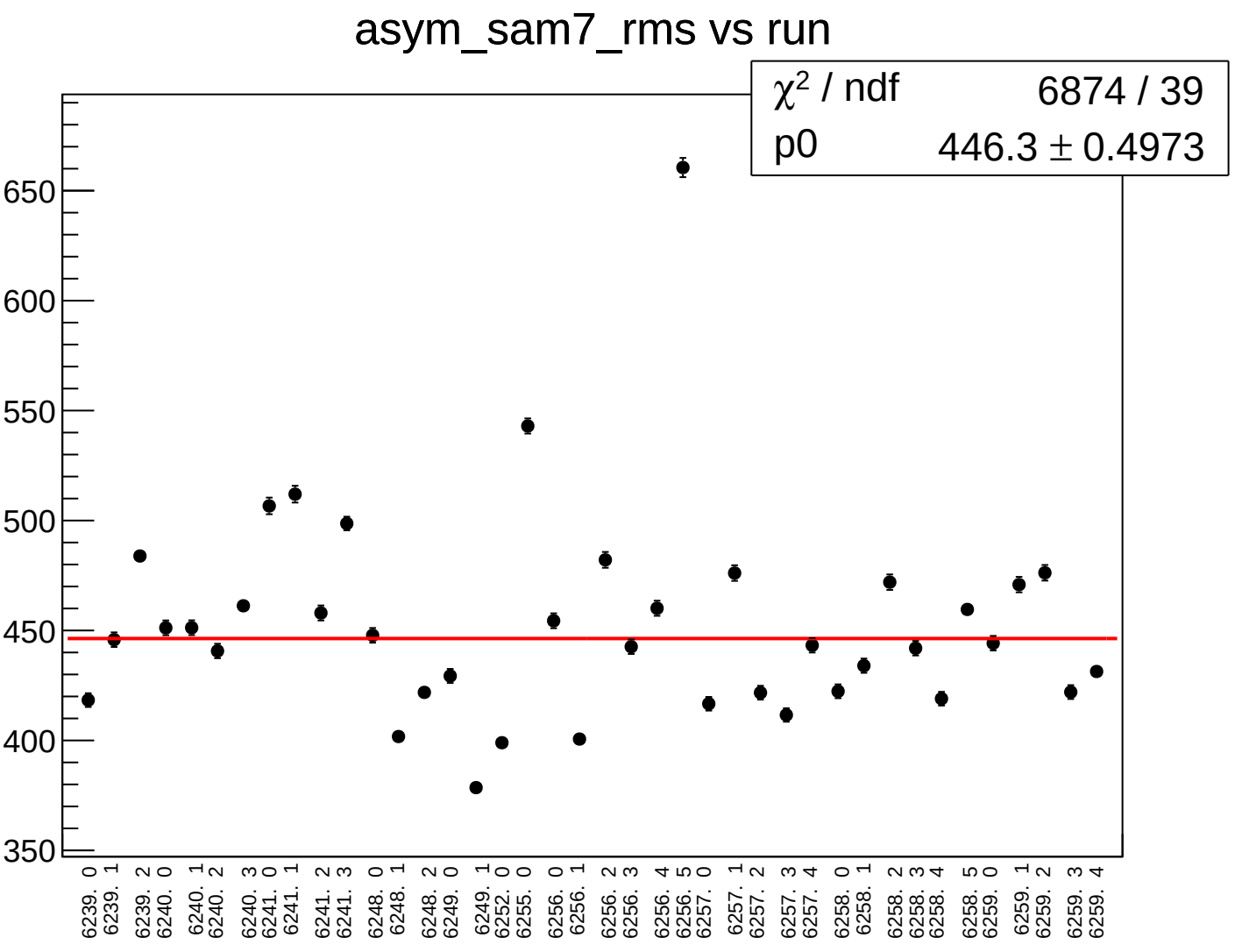

asym_sam6_mean vs run
χ² / ndf 27.19 / 39
p0 −1086 ± 2155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 171.8
Std Dev 154
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

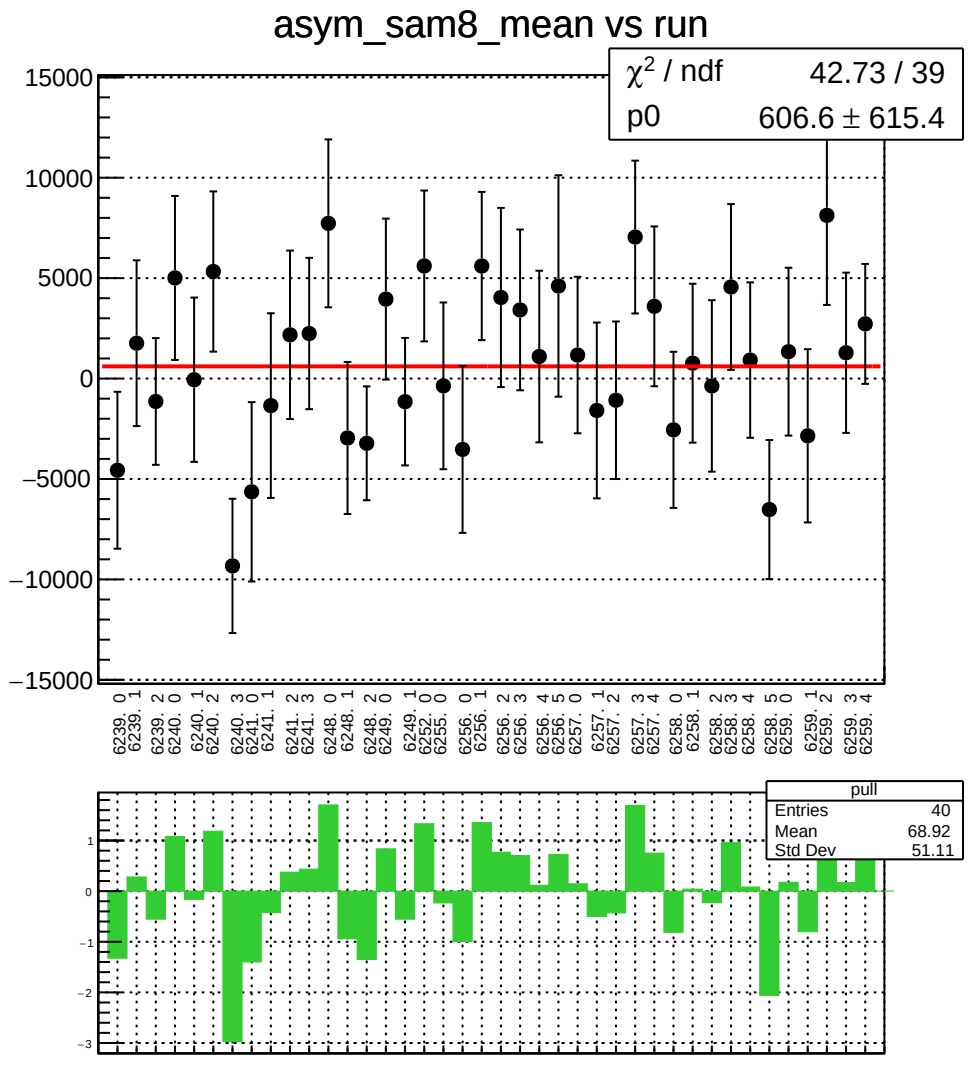

pull1D
Entries 40
Mean −0.01515
Std Dev 0.8243
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

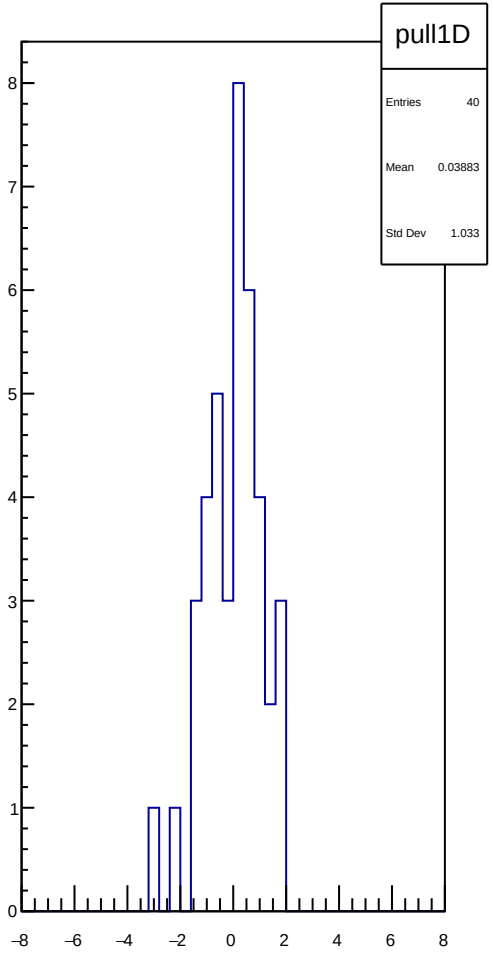

asym_sam6_rms vs run
χ² / ndf 1802 / 39
p0 1372 ± 1.524
1650
1600
1550
1500
1450
1400
1350
1300
1250
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

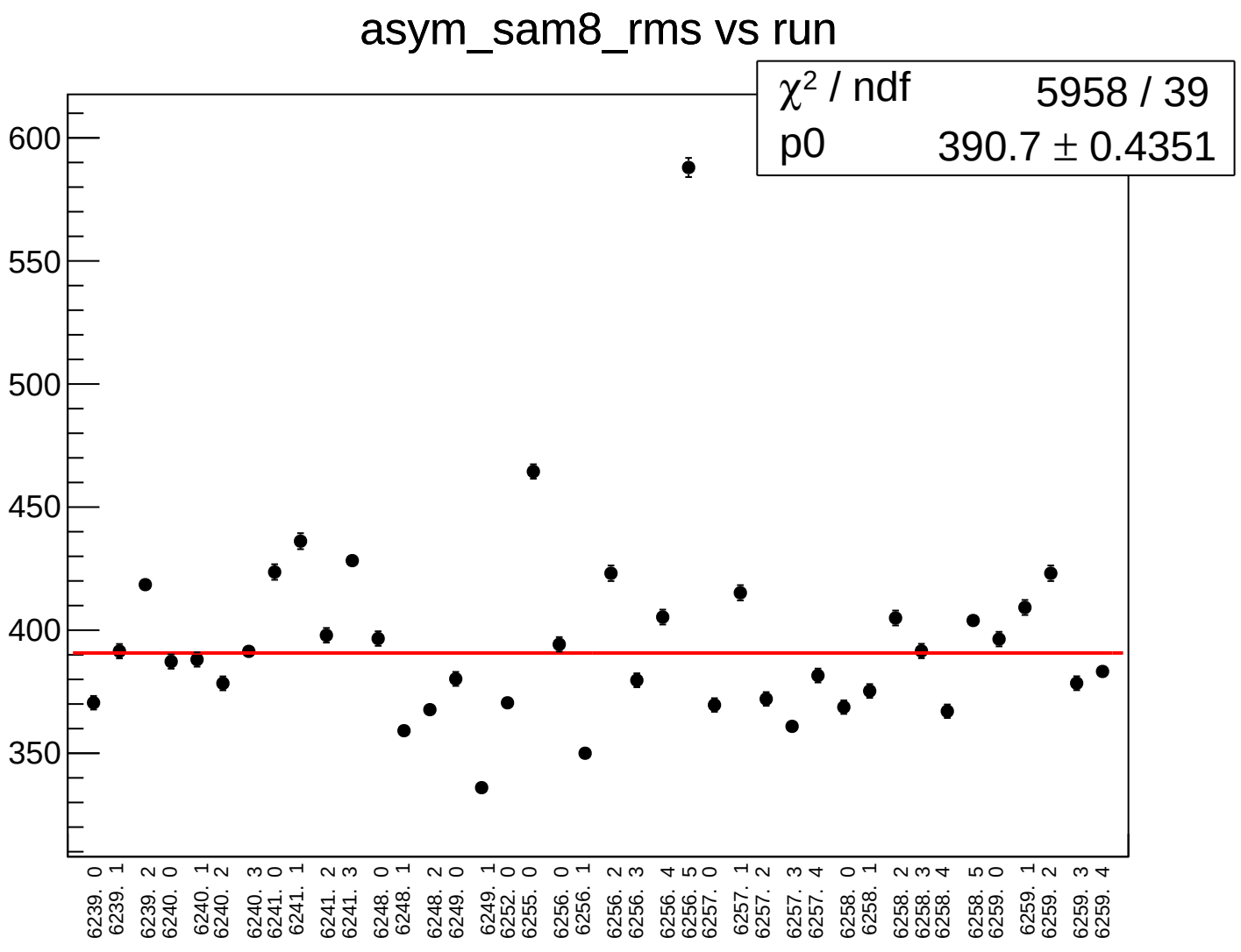

asym_sam7_mean vs run
χ² / ndf 35.96 / 39
p0 842.4 ± 703.3
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 102.6
Std Dev 83.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

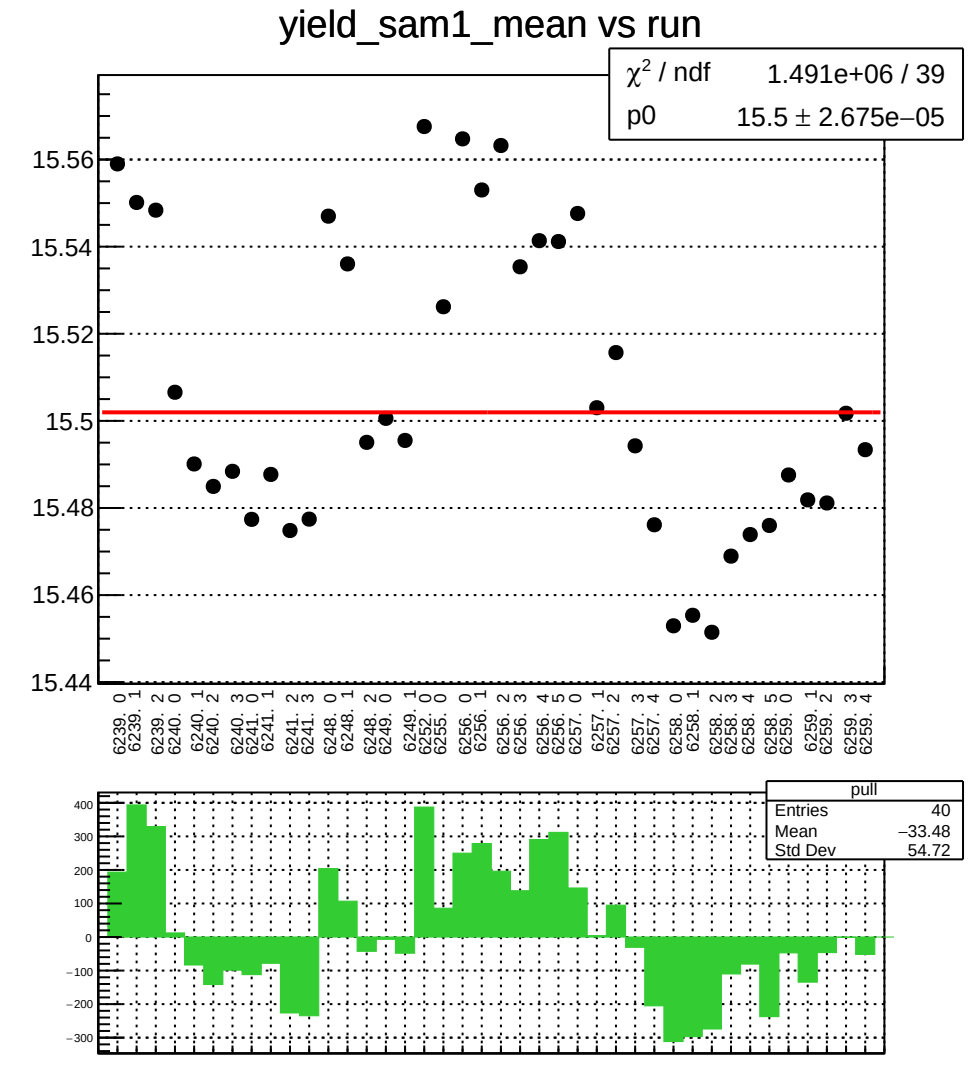

pull1D
Entries 40
Mean 0.03215
Std Dev 0.9476
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

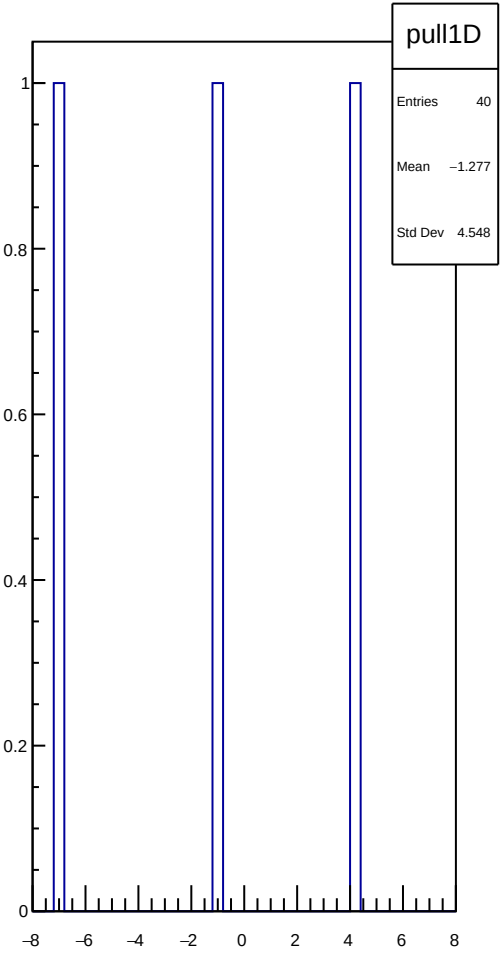

asym_sam7_rms vs run
$\chi^2$ / ndf 6874 / 39
p0 446.3 ± 0.4973
650
600
550
500
450
400
350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

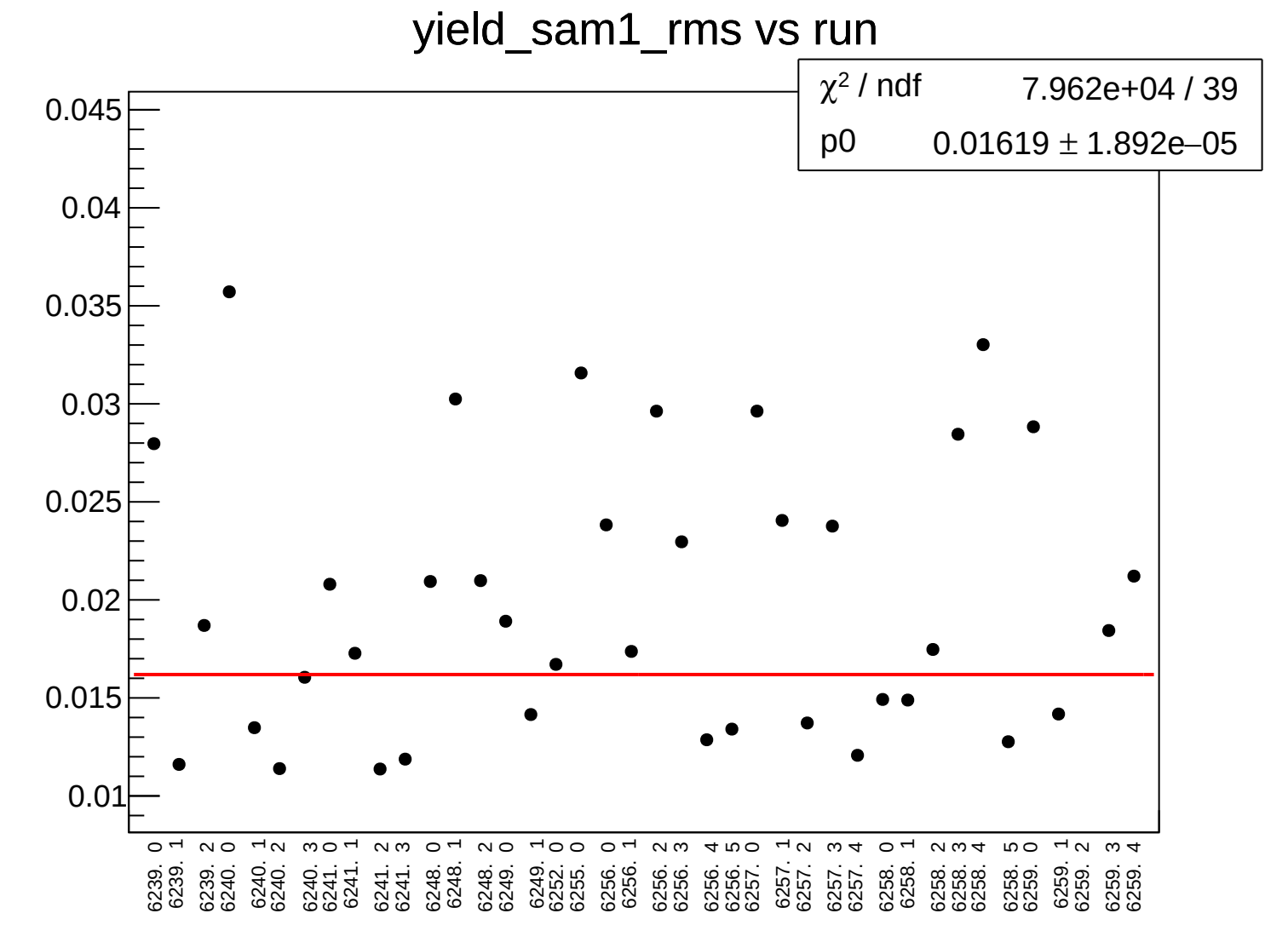

asym_sam8_mean vs run
χ² / ndf 42.73 / 39
p0 606.6 ± 615.4
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 68.92
Std Dev 51.11
1
0
−1
−2
−3

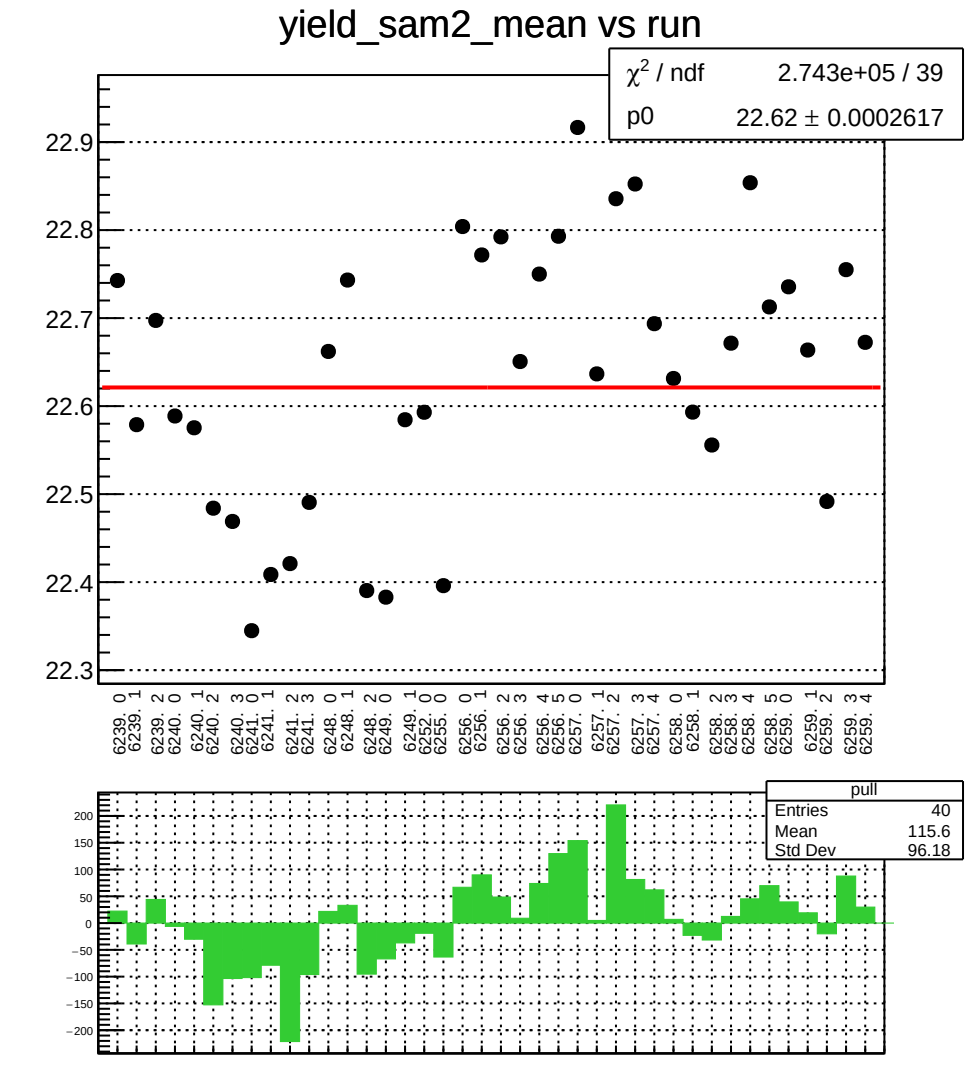

pull1D
Entries 40
Mean 0.03883
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

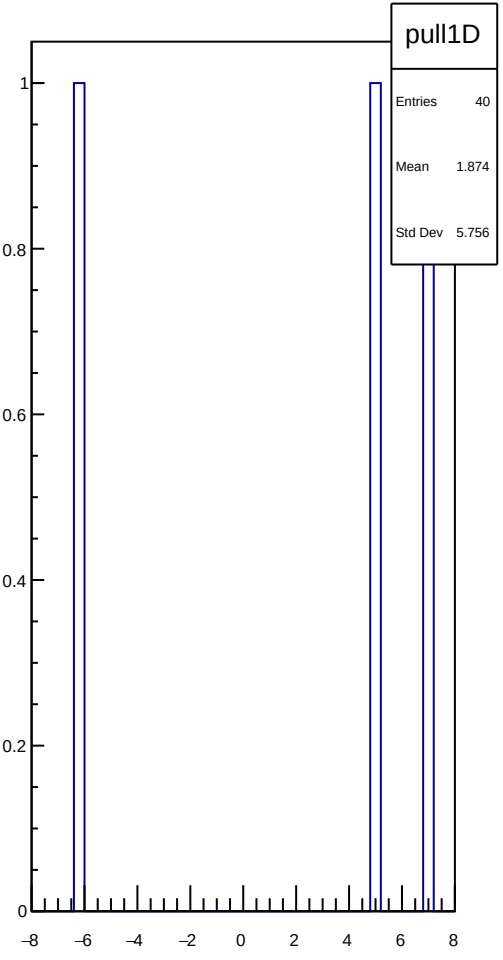

asym_sam8_rms vs run
χ² / ndf 5958 / 39
p0 390.7 ± 0.4351
600
550
500
450
400
350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

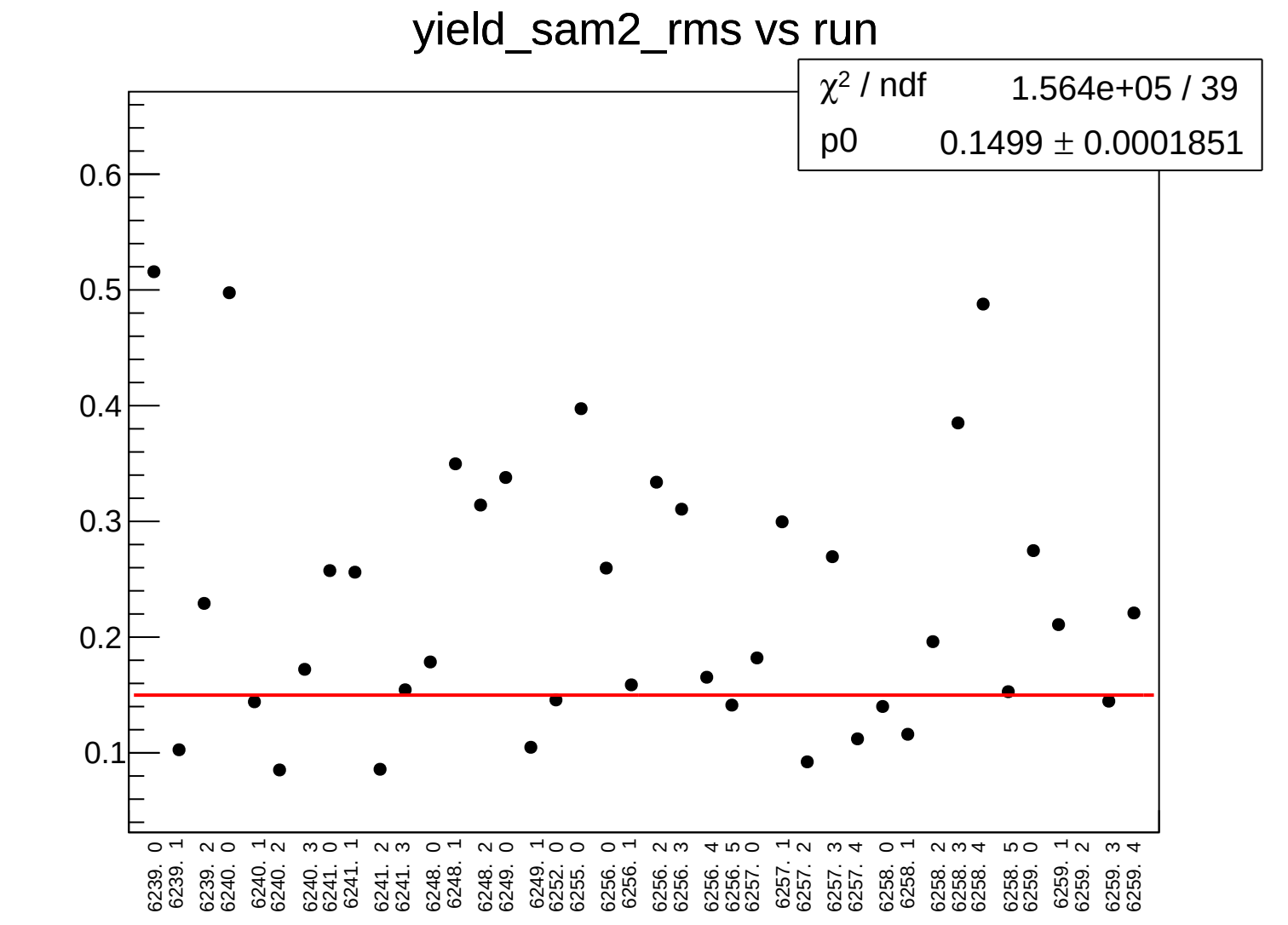

yield_sam1_mean vs run
χ² / ndf 1.491e+06 / 39
p0 15.5 ± 2.675e−05
15.56
15.54
15.52
15.5
15.48
15.46
15.44
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −33.48
Std Dev 54.72
400
300
200
100
0
−100
−200
−300


pull1D
Entries 40
Mean −1.277
Std Dev 4.548
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam1_rms vs run
χ² / ndf 7.962e+04 / 39
p0 0.01619 ± 1.892e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


yield_sam2_mean vs run
χ² / ndf 2.743e+05 / 39
p0 22.62 ± 0.0002617
22.9
22.8
22.7
22.6
22.5
22.4
22.3
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 115.6
Std Dev 96.18
200
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 40
Mean 1.874
Std Dev 5.756
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam2_rms vs run
χ² / ndf 1.564e+05 / 39
p0 0.1499 ± 0.0001851
0.6
0.5
0.4
0.3
0.2
0.1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
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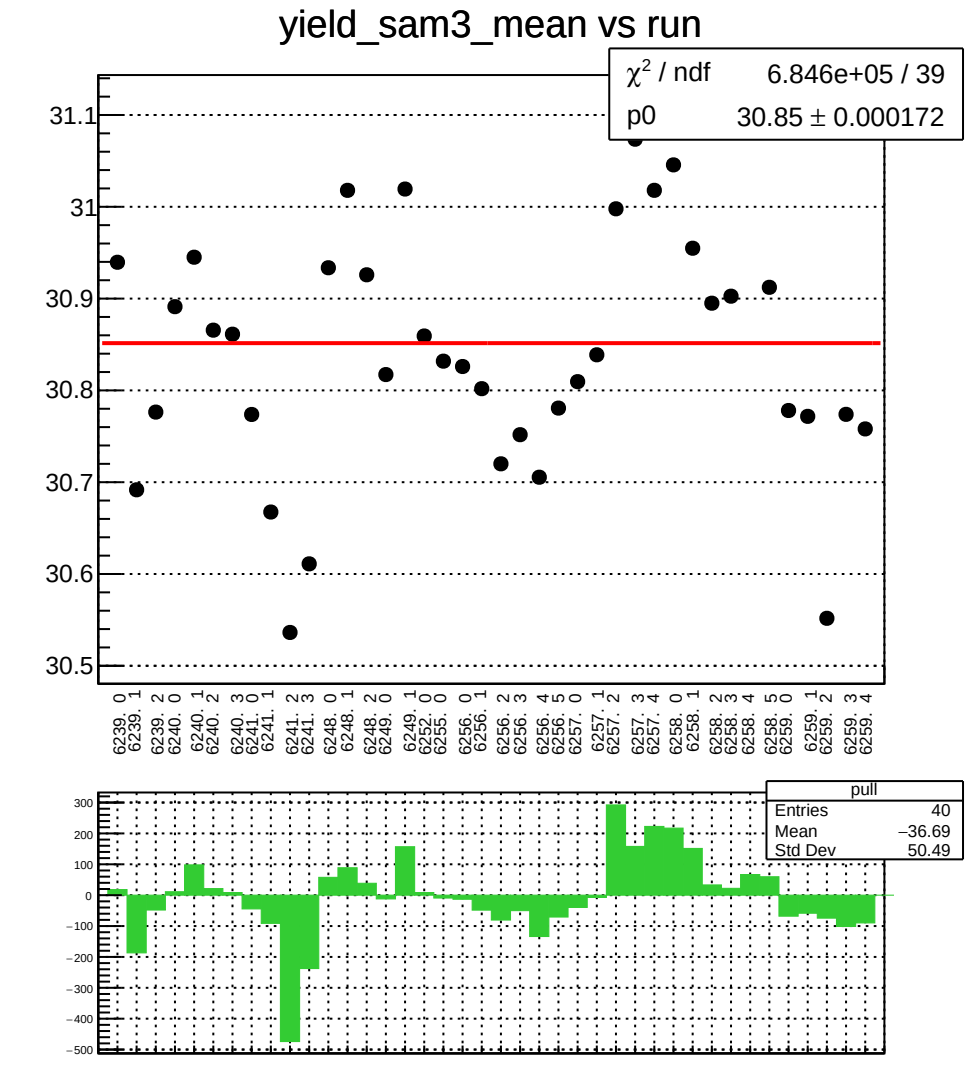
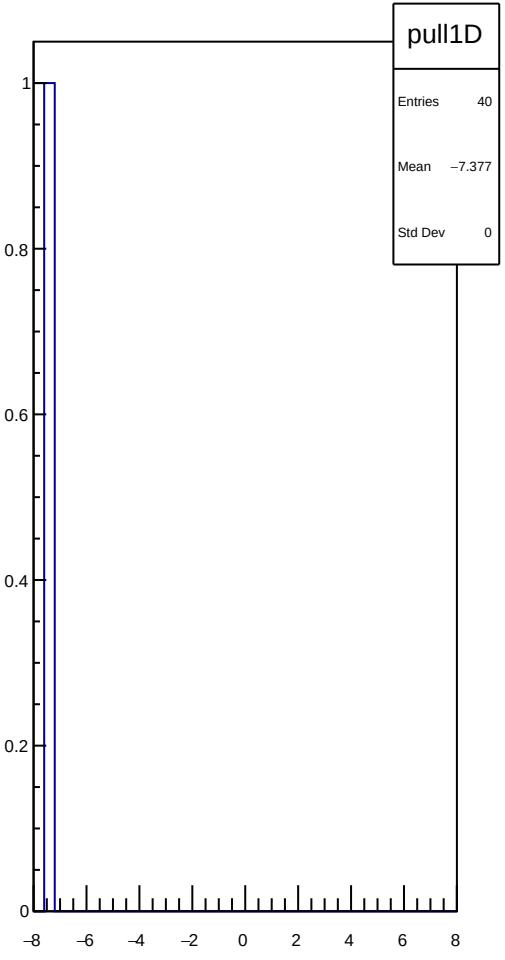
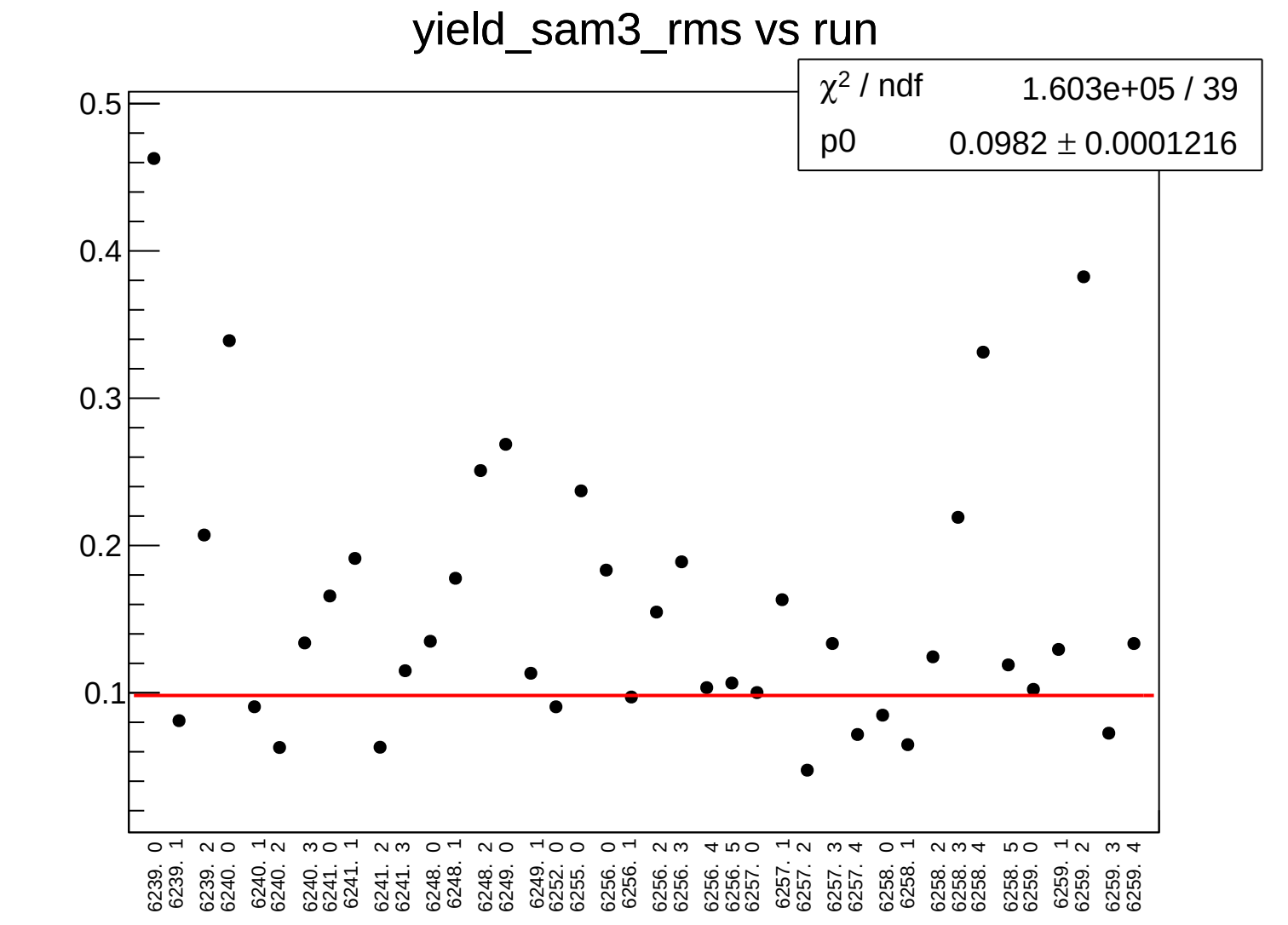
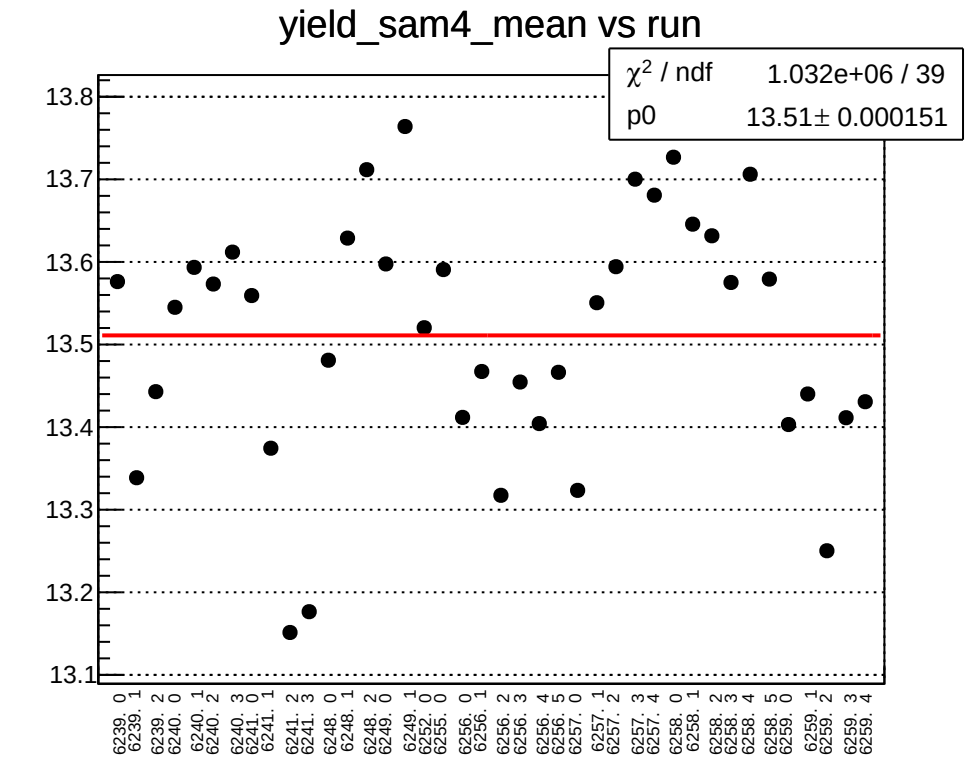
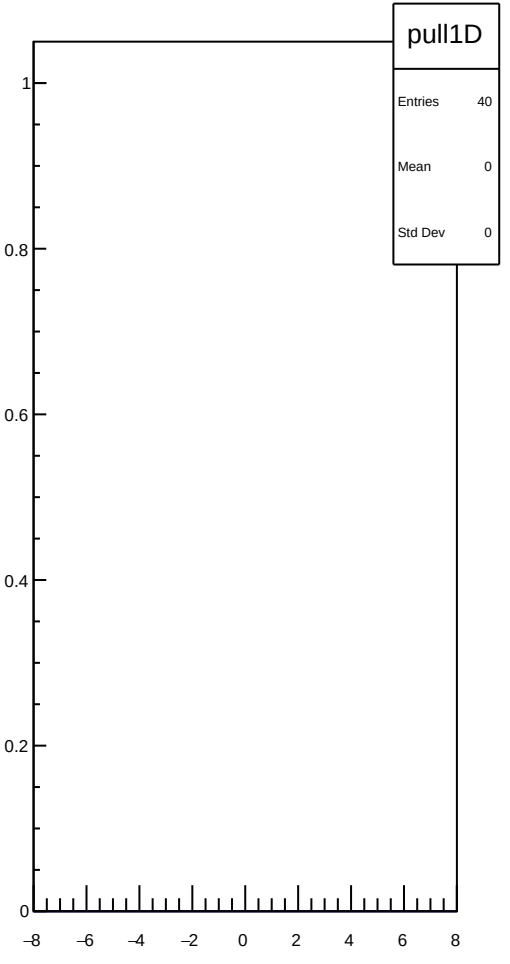
6259. 4

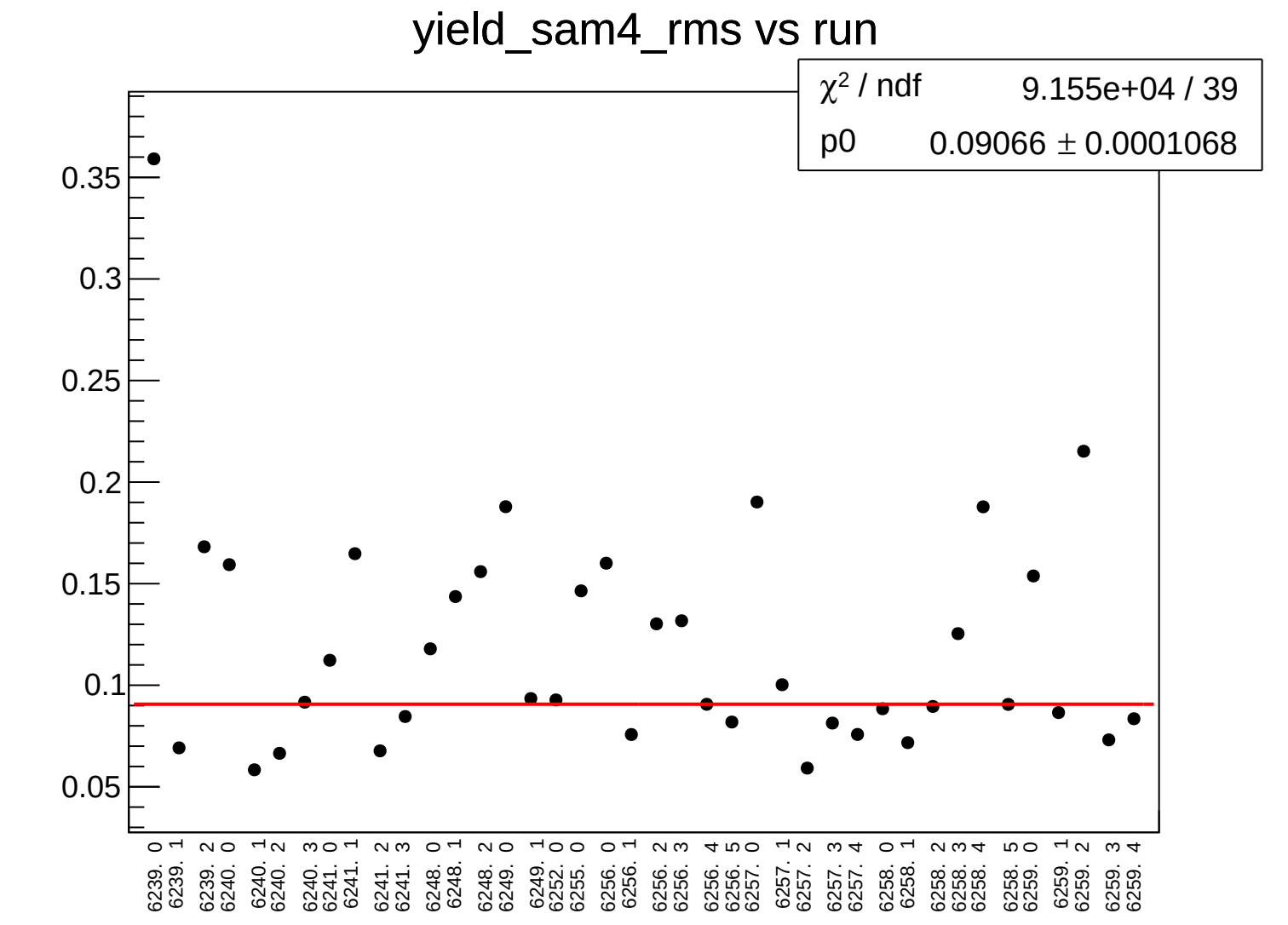

yield_sam3_mean vs run
χ² / ndf 6.846e+05 / 39
p0 30.85 ± 0.000172
31.1
31
30.9
30.8
30.7
30.6
30.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −36.69
Std Dev 50.49
300
200
100
0
−100
−200
−300
−400
−500

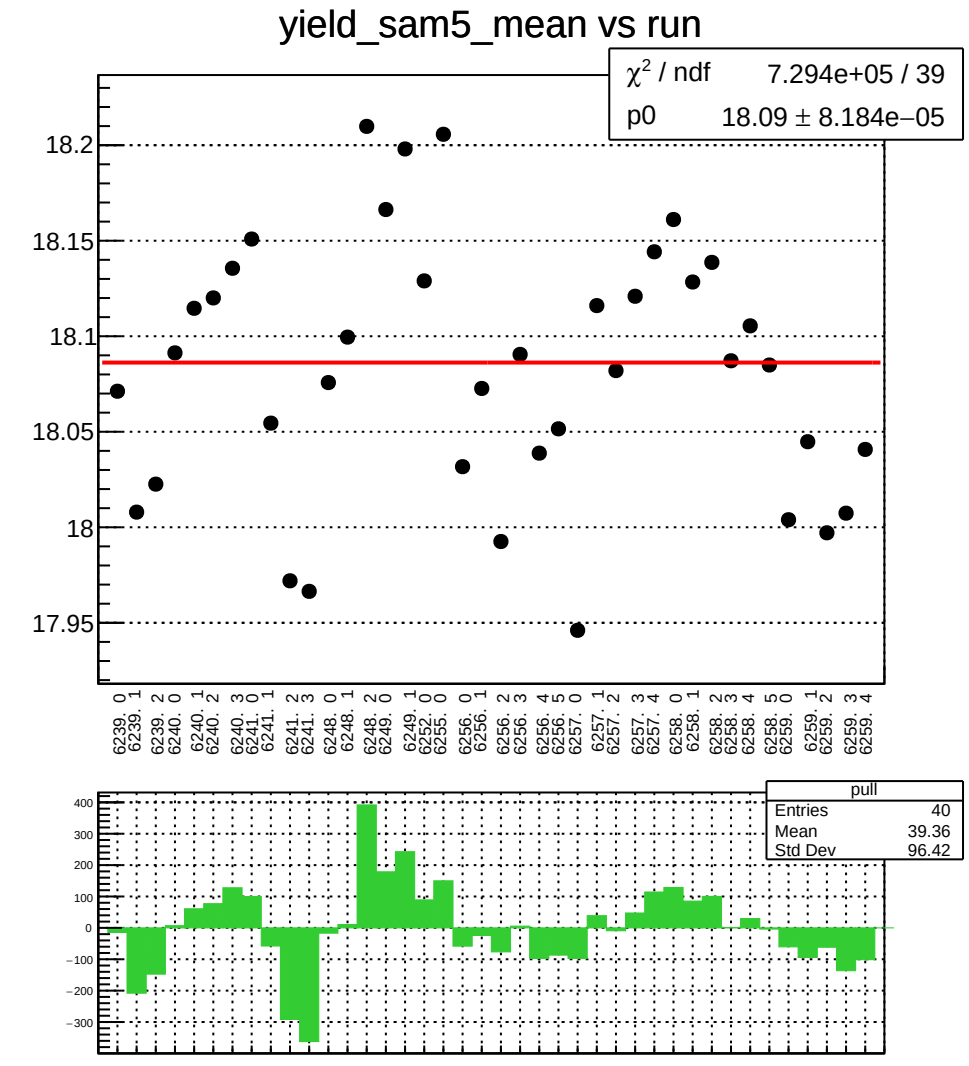

pull1D
Entries 40
Mean −7.377
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

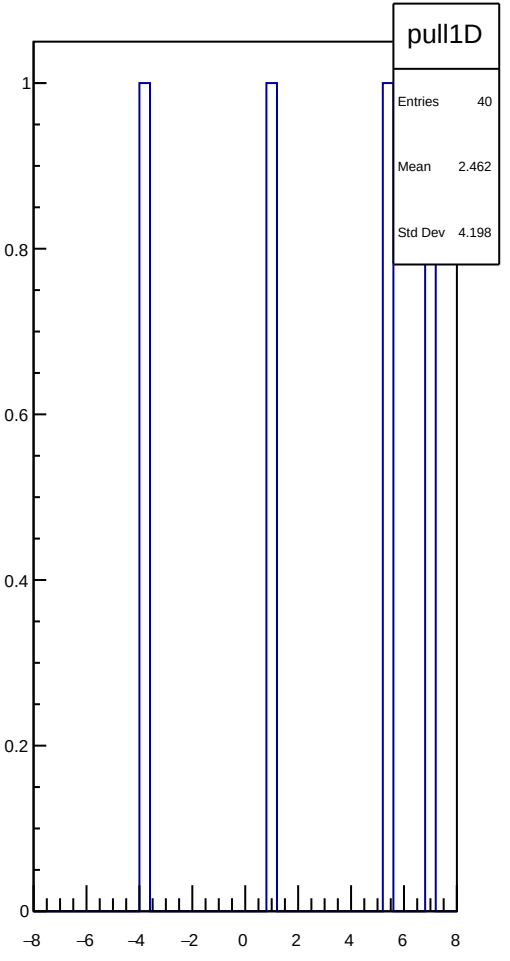

yield_sam3_rms vs run
χ² / ndf 1.603e+05 / 39
p0 0.0982 ± 0.0001216
0.5
0.4
0.3
0.2
0.1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

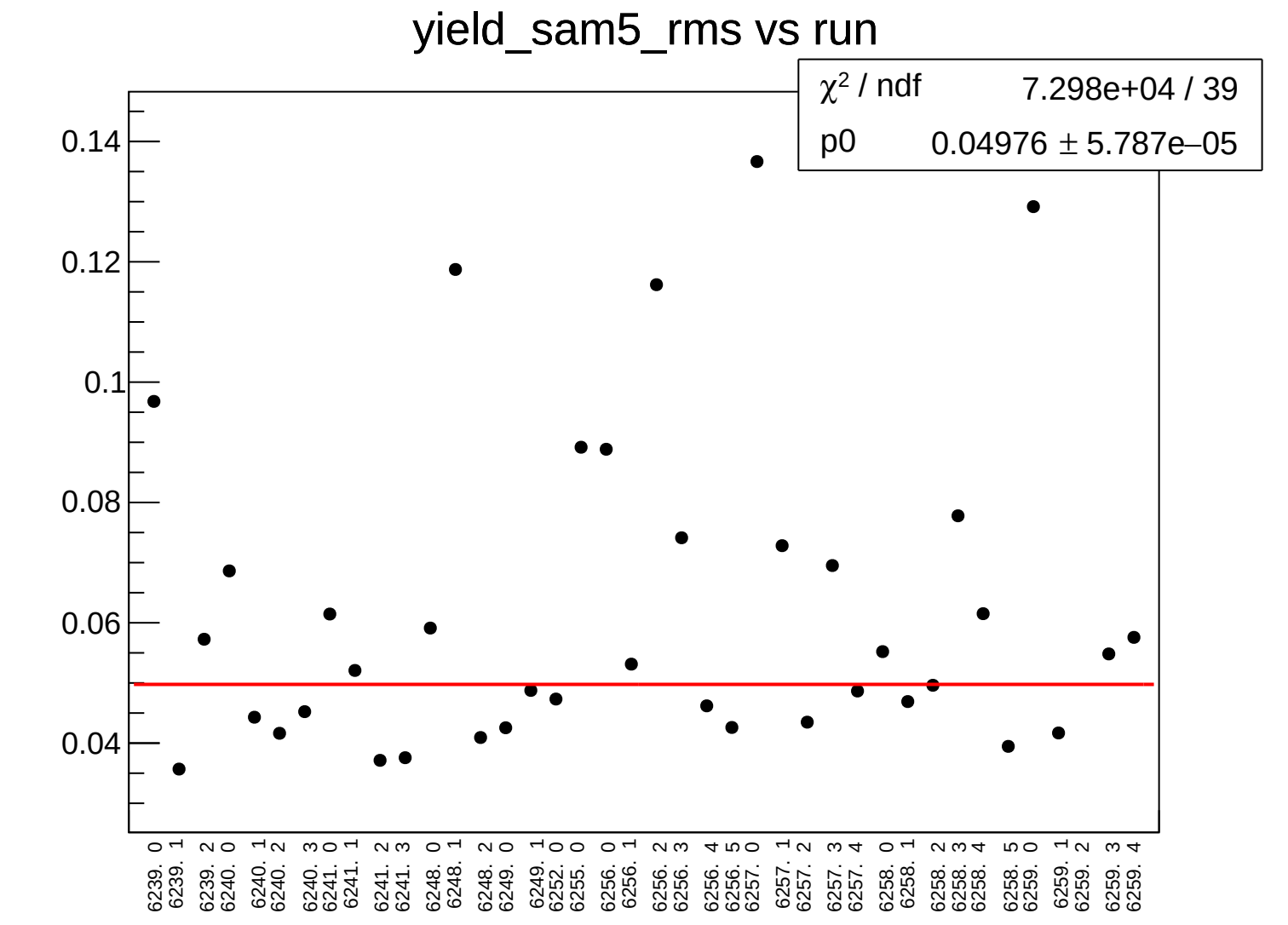

yield_sam4_mean vs run
χ² / ndf 1.032e+06 / 39
p0 13.51± 0.000151
13.8
13.7
13.6
13.5
13.4
13.3
13.2
13.1
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 280.2
Std Dev 266.6
300
200
100
0
−100
−200
−300
−400
−500

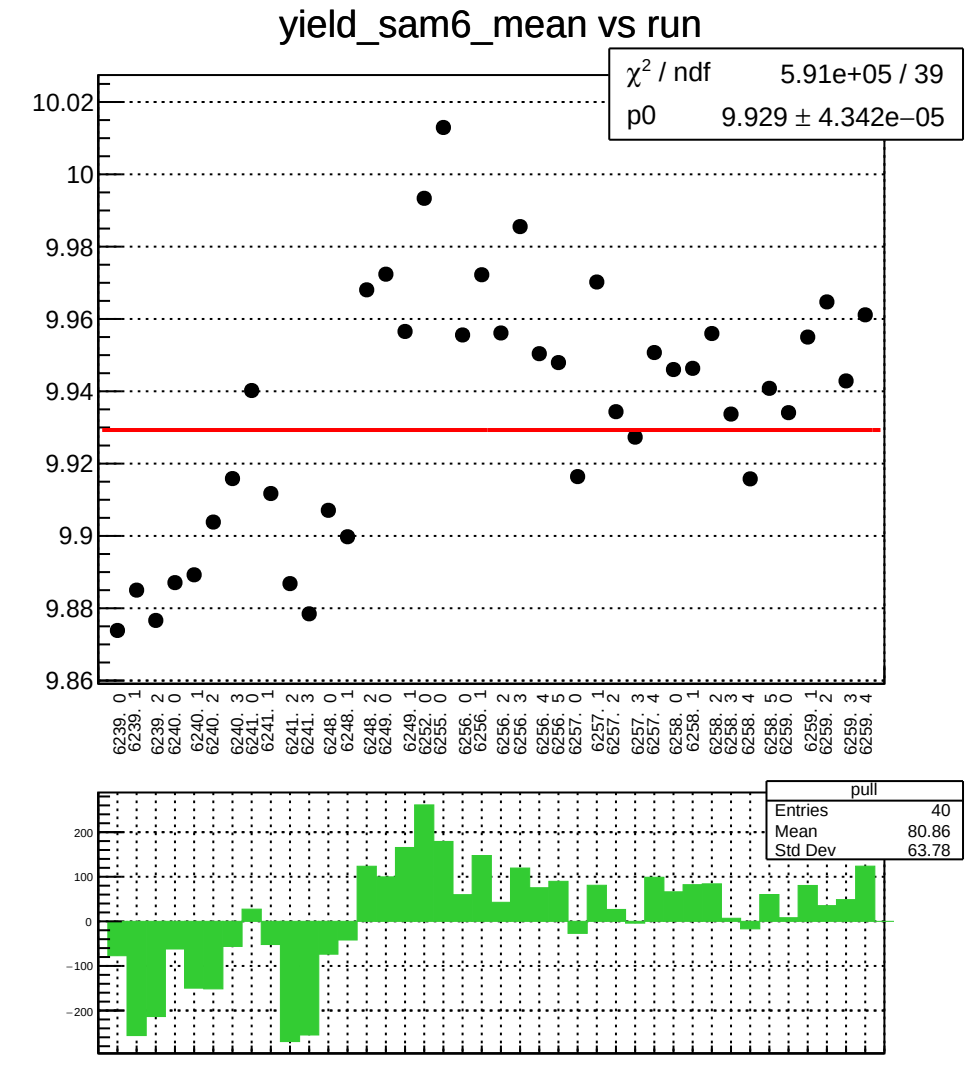

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

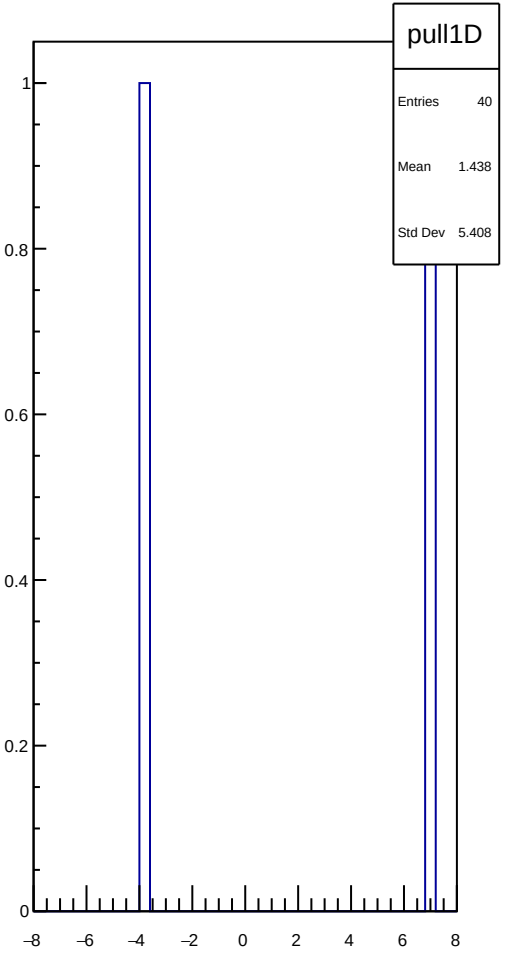

yield_sam4_rms vs run
χ² / ndf 9.155e+04 / 39
p0 0.09066 ± 0.0001068
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

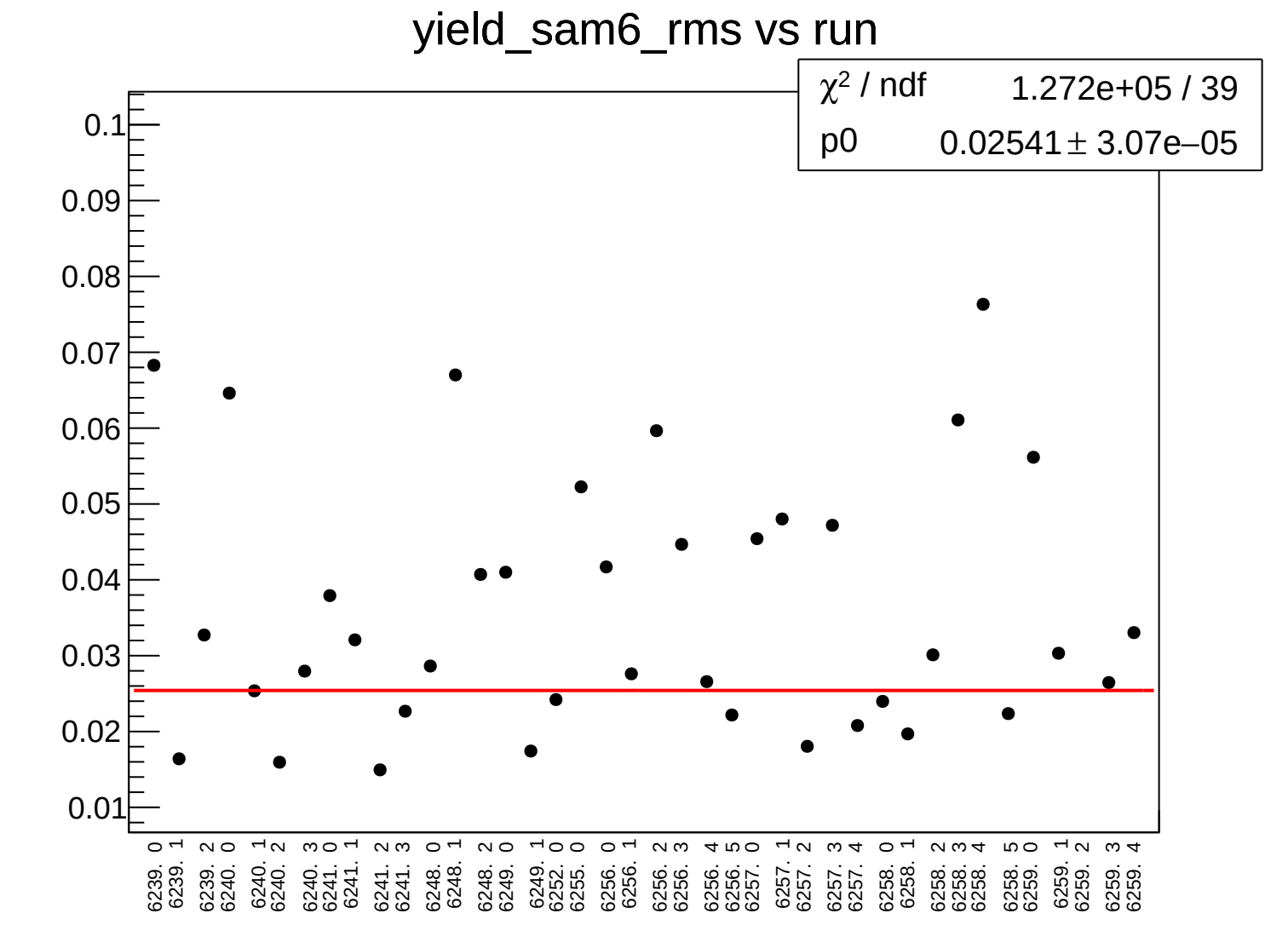

yield_sam5_mean vs run
χ² / ndf 7.294e+05 / 39
p0 18.09 ± 8.184e−05
18.2
18.15
18.1
18.05
18
17.95
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 39.36
Std Dev 96.42
400
300
200
100
0
−100
−200
−300

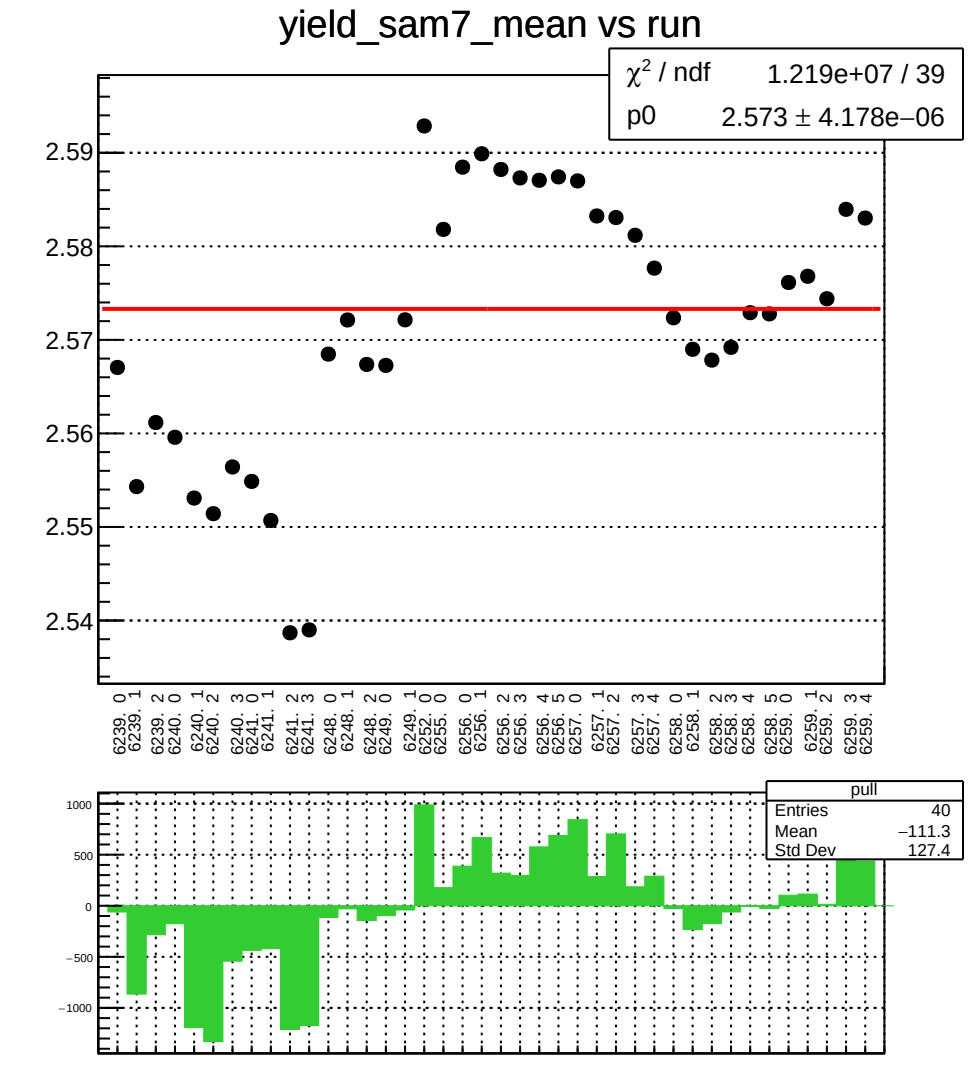

pull1D
Entries 40
Mean 2.462
Std Dev 4.198
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

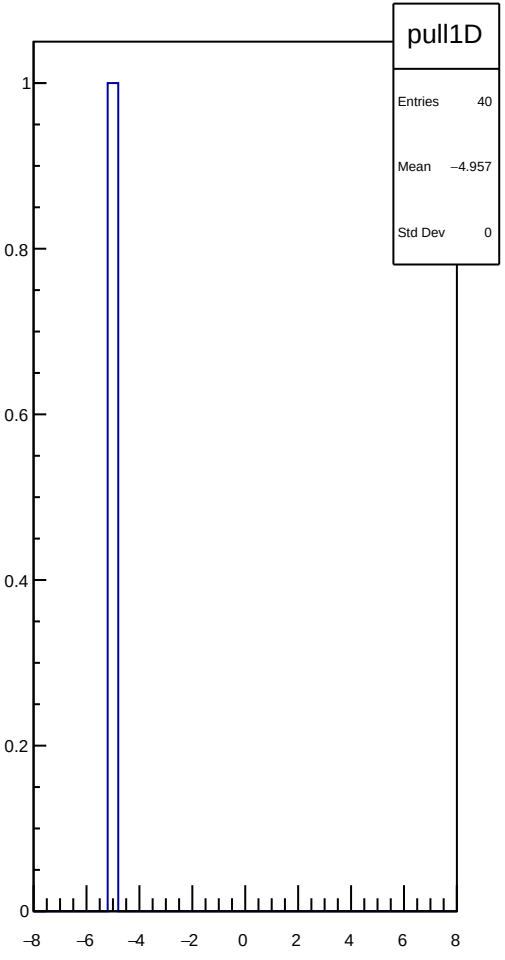

yield_sam5_rms vs run
χ² / ndf 7.298e+04 / 39
p0 0.04976 ± 5.787e–05
0.14
0.12
0.1
0.08
0.06
0.04
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

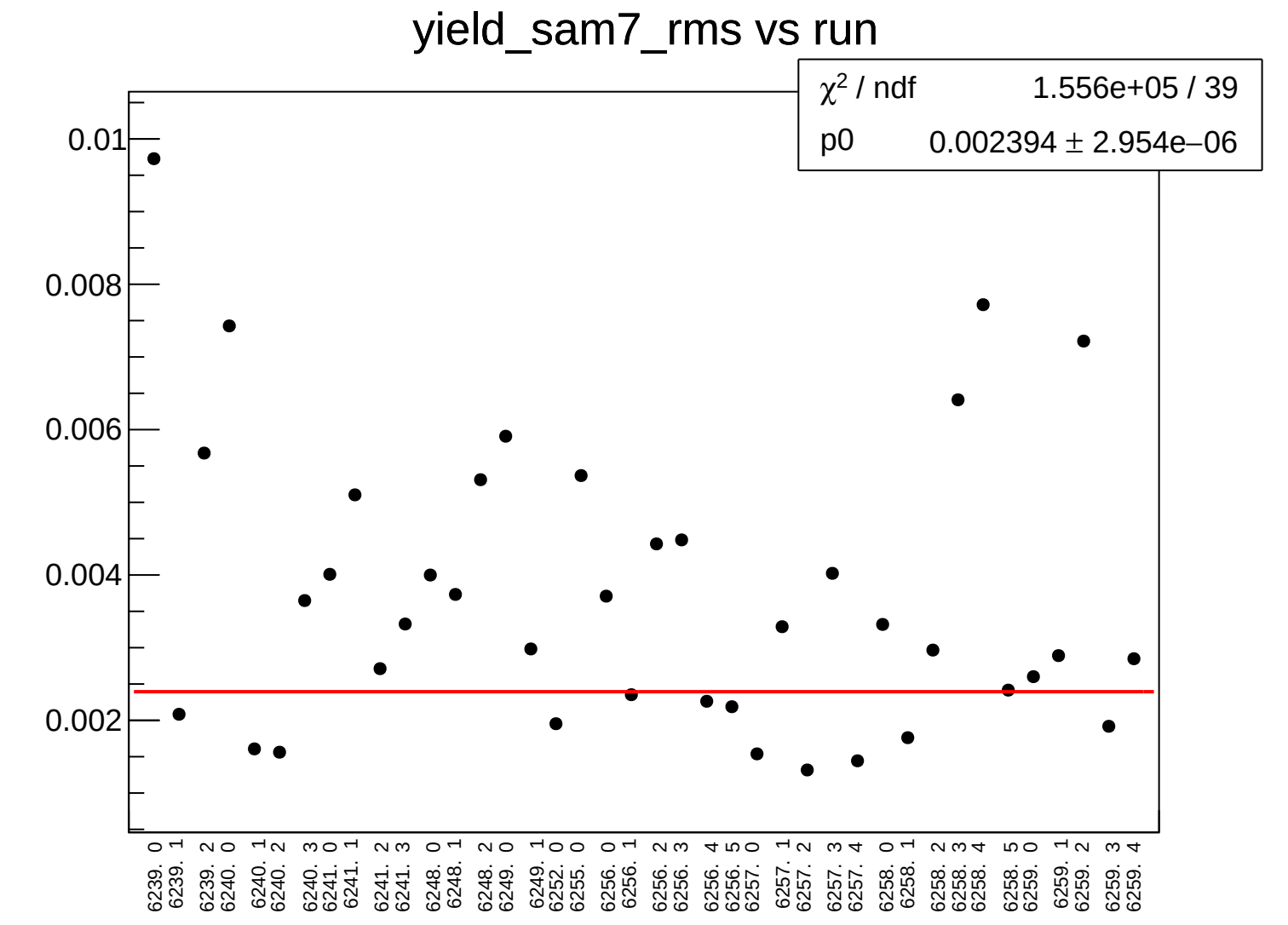

yield_sam6_mean vs run
χ² / ndf 5.91e+05 / 39
p0 9.929 ± 4.342e−05
10.02
10
9.98
9.96
9.94
9.92
9.9
9.88
9.86
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 80.86
Std Dev 63.78
200
100
0
−100
−200

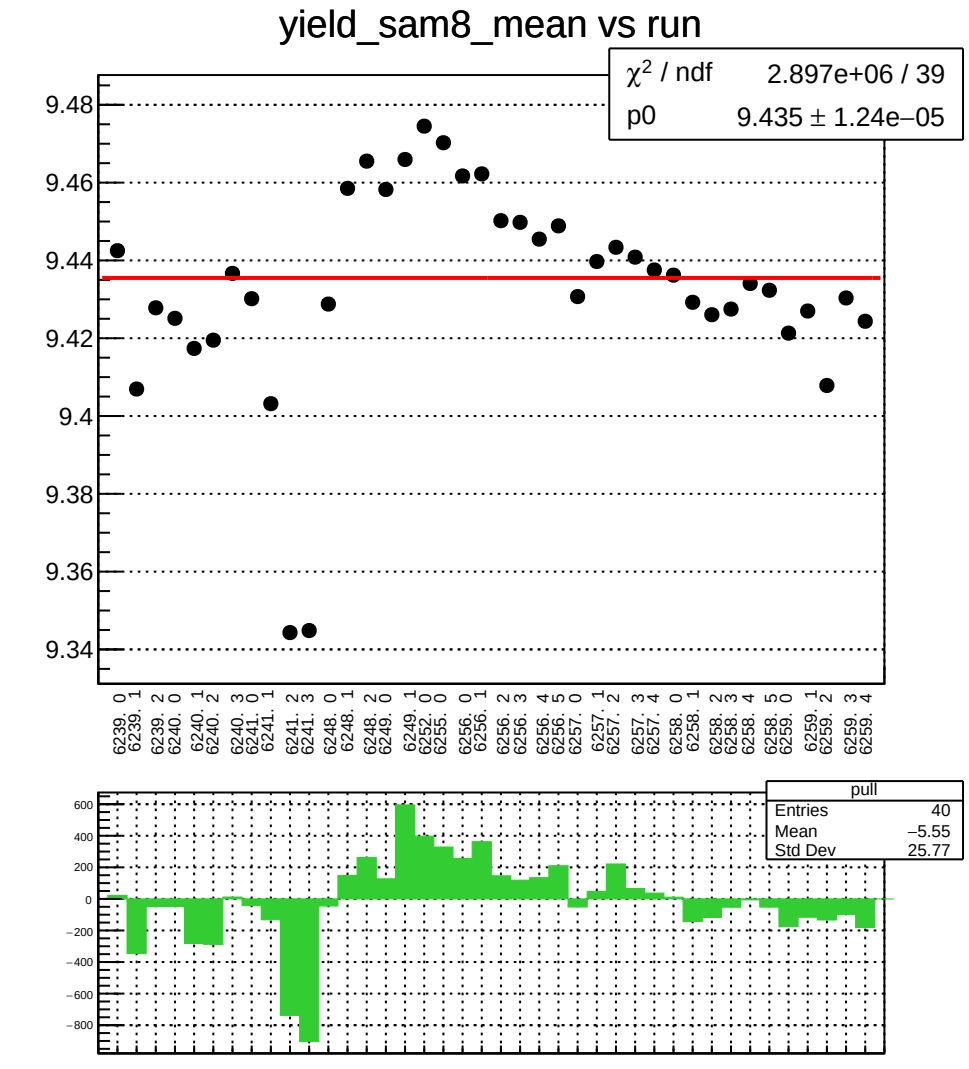

pull1D
Entries 40
Mean 1.438
Std Dev 5.408
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

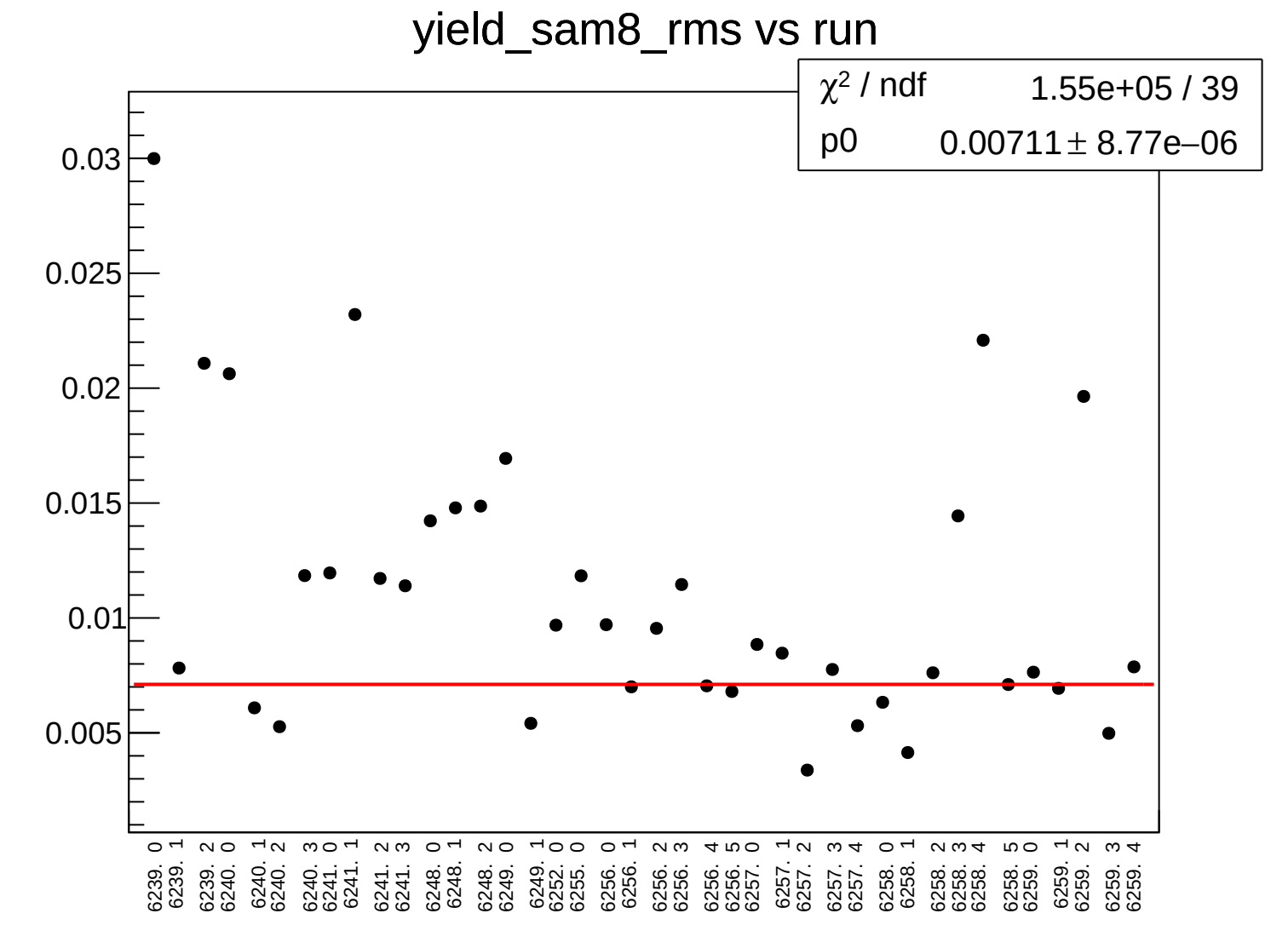

yield_sam6_rms vs run
χ² / ndf 1.272e+05 / 39
p0 0.02541 ± 3.07e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

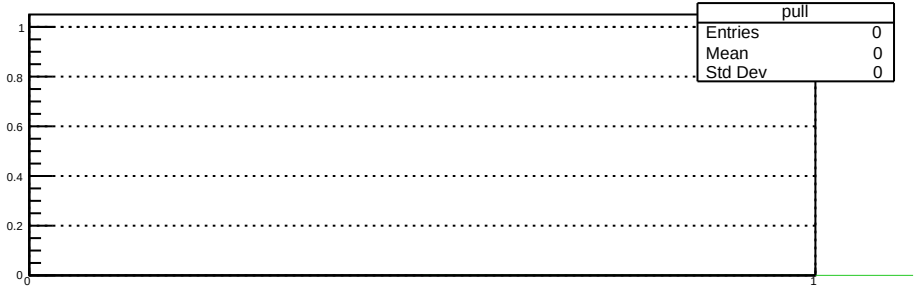

yield_sam7_mean vs run
χ² / ndf 1.219e+07 / 39
p0 2.573 ± 4.178e−06
2.59
2.58
2.57
2.56
2.55
2.54
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −111.3
Std Dev 127.4
1000
500
0
−500
−1000

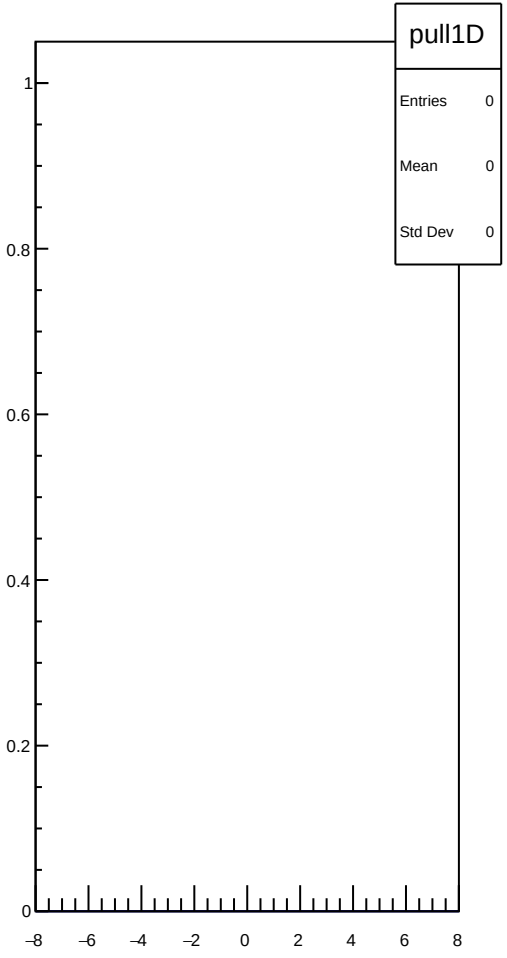

pull1D
Entries 40
Mean −4.957
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

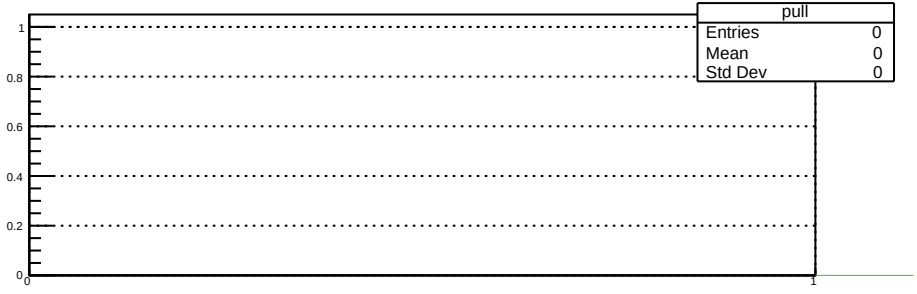

yield_sam7_rms vs run
χ² / ndf 1.556e+05 / 39
p0 0.002394 ± 2.954e−06
0.01
0.008
0.006
0.004
0.002
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

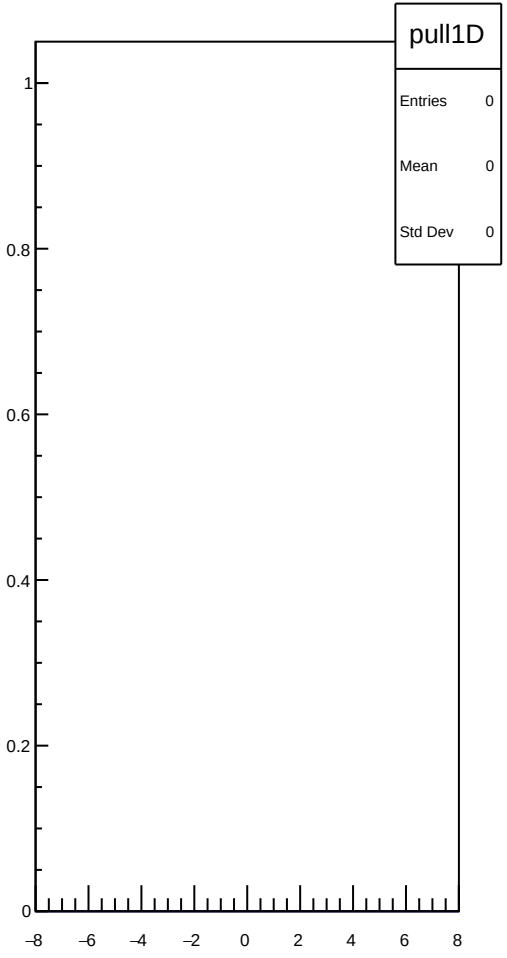

yield_sam8_mean vs run
χ² / ndf 2.897e+06 / 39
p0 9.435 ± 1.24e−05
9.48
9.46
9.44
9.42
9.4
9.38
9.36
9.34
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −5.55
Std Dev 25.77
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 40
Mean −6.138
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

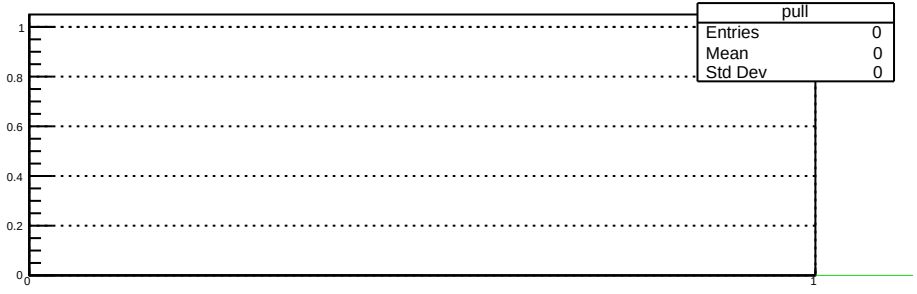

yield_sam8_rms vs run
χ² / ndf 1.55e+05 / 39
p0 0.00711 ± 8.77e–06
0.03
0.025
0.02
0.015
0.01
0.005
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

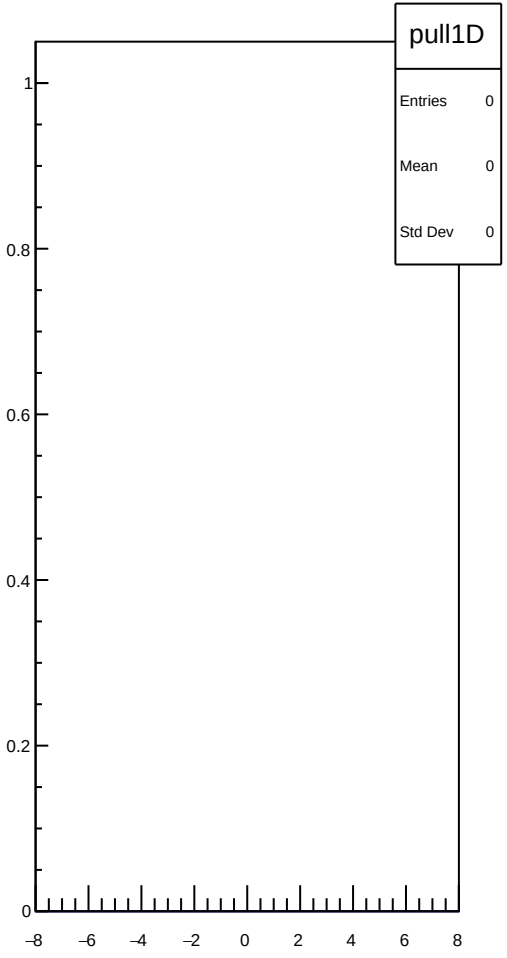

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

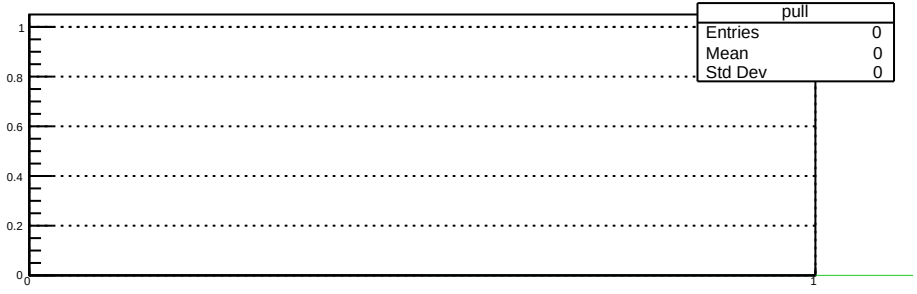

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

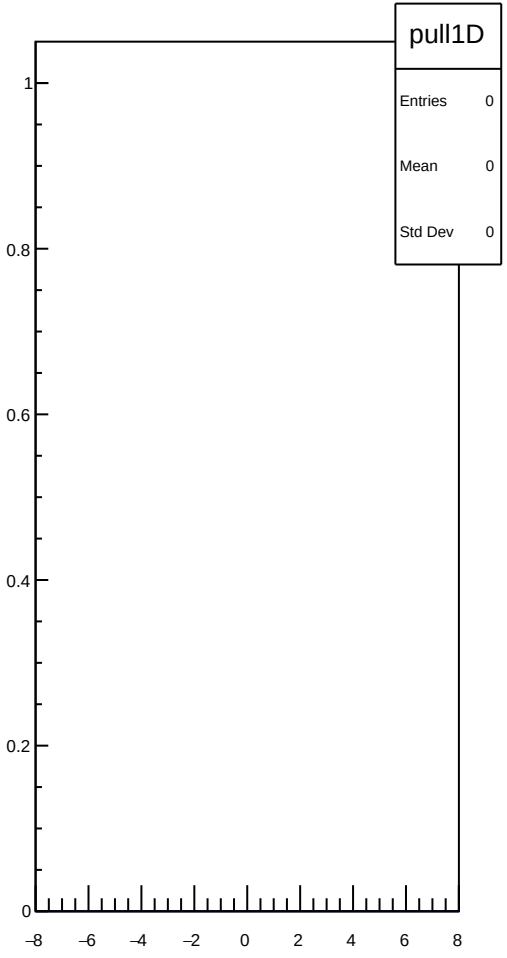

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

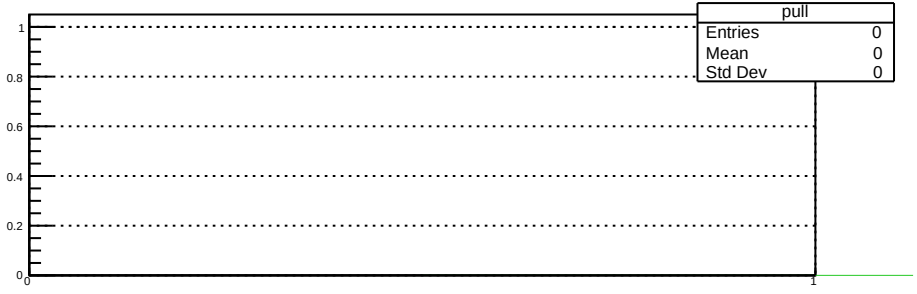

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

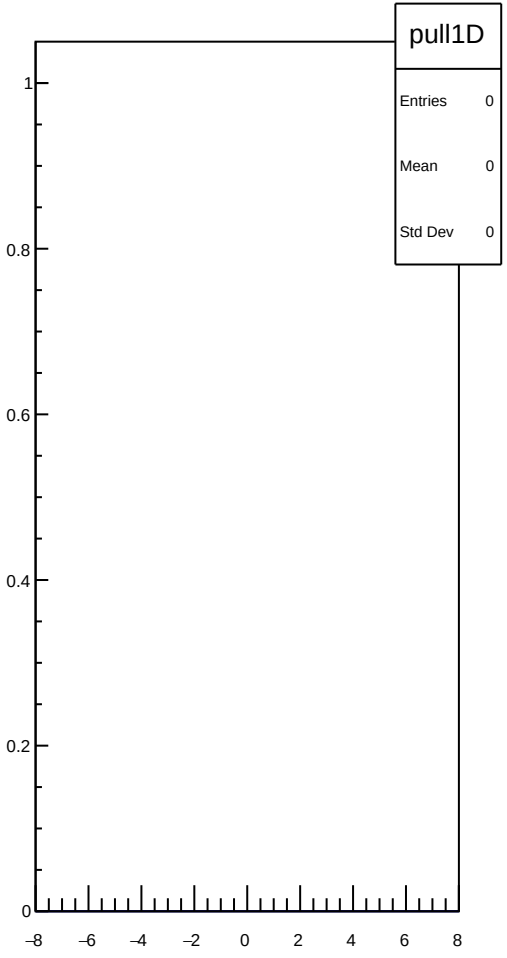

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

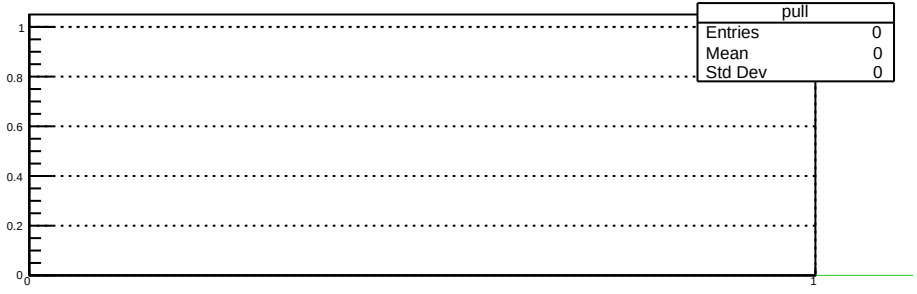

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

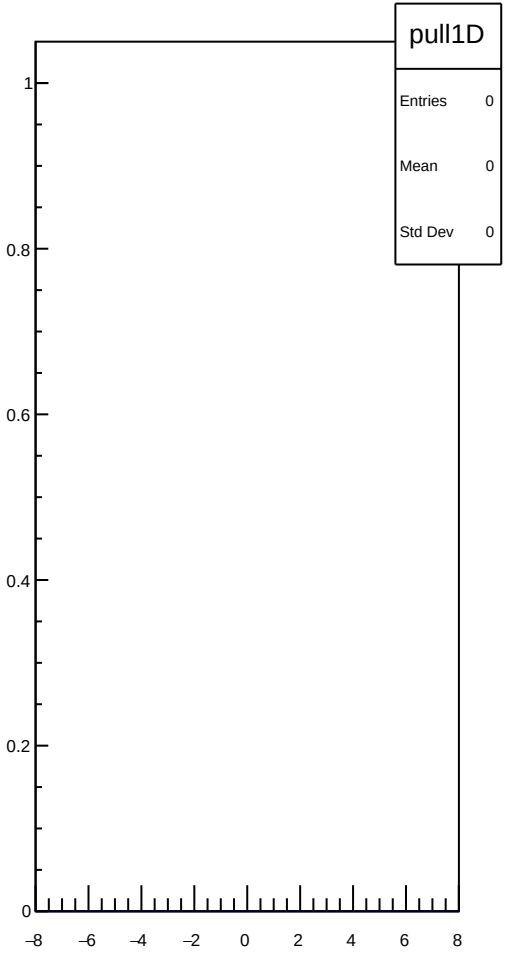

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

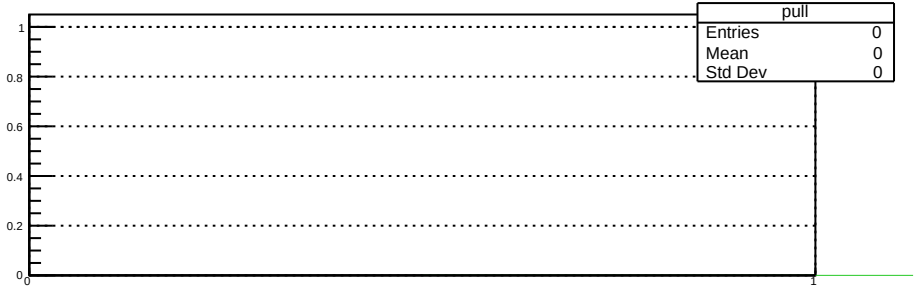

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

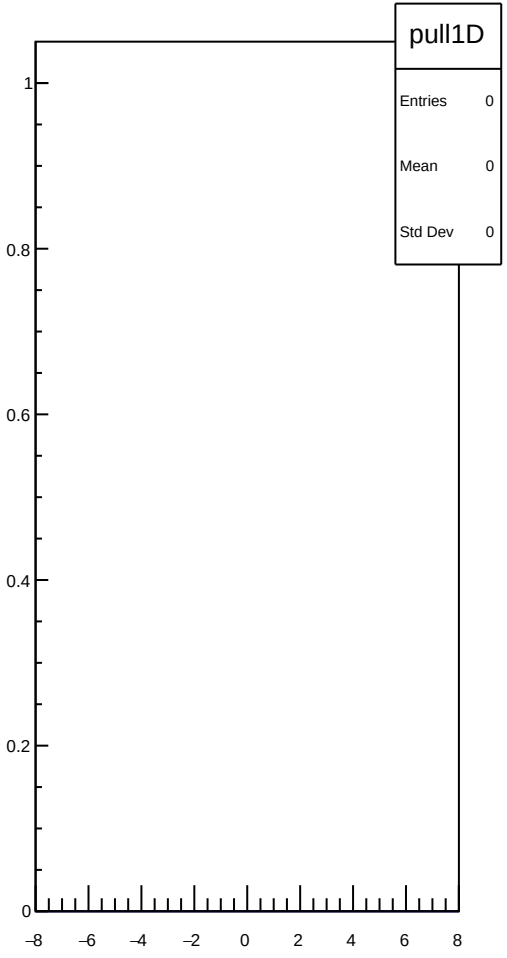

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

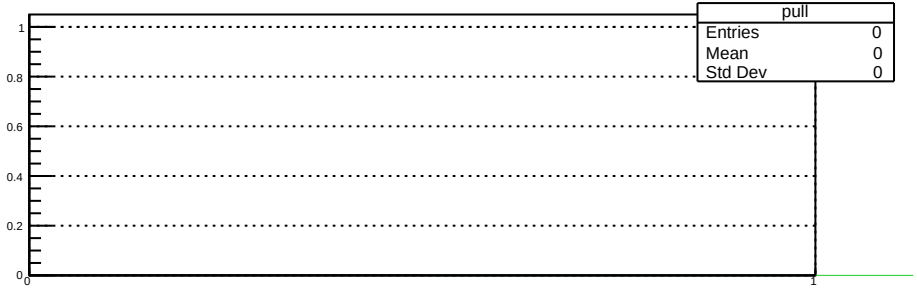

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

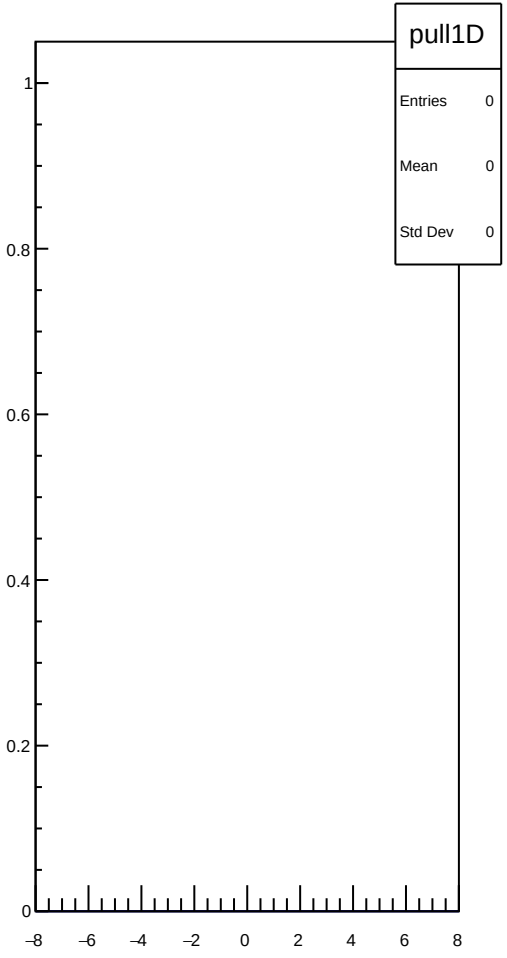

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

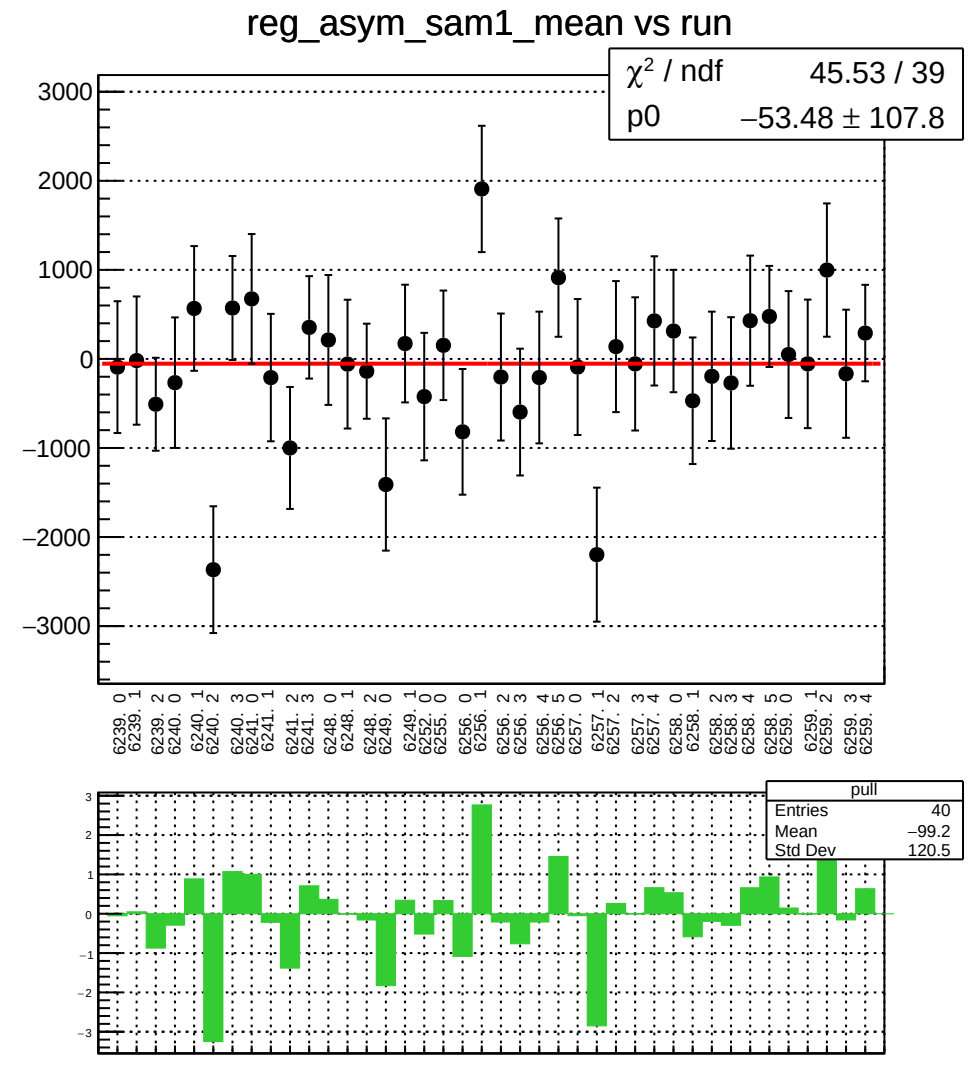

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

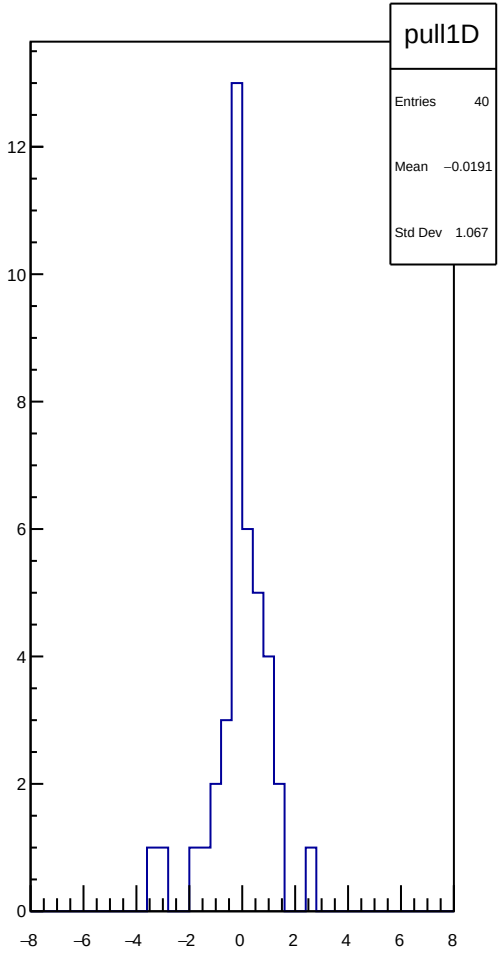

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

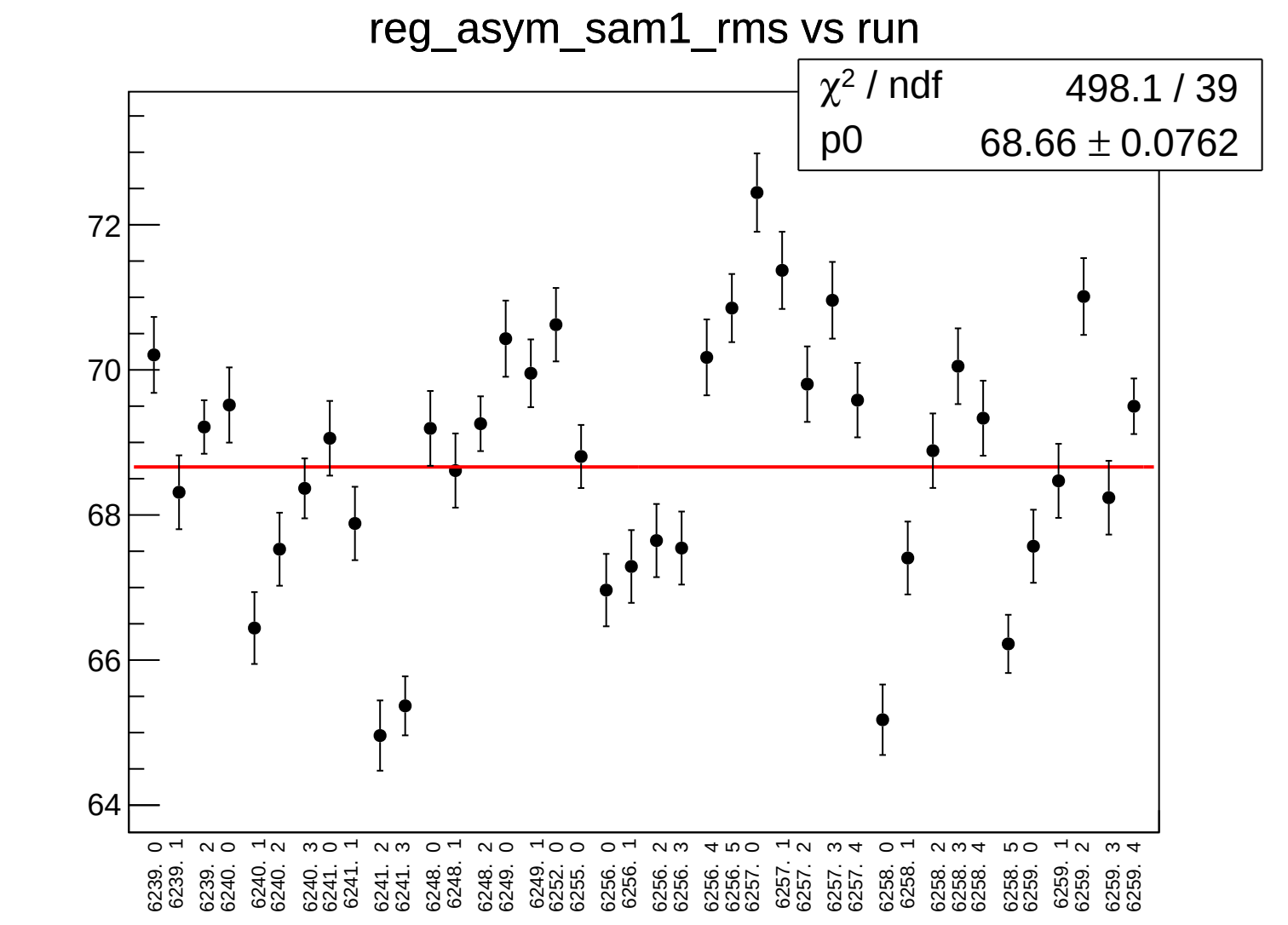

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

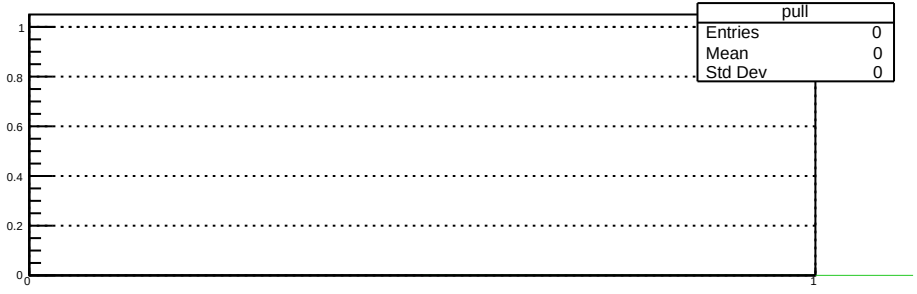

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

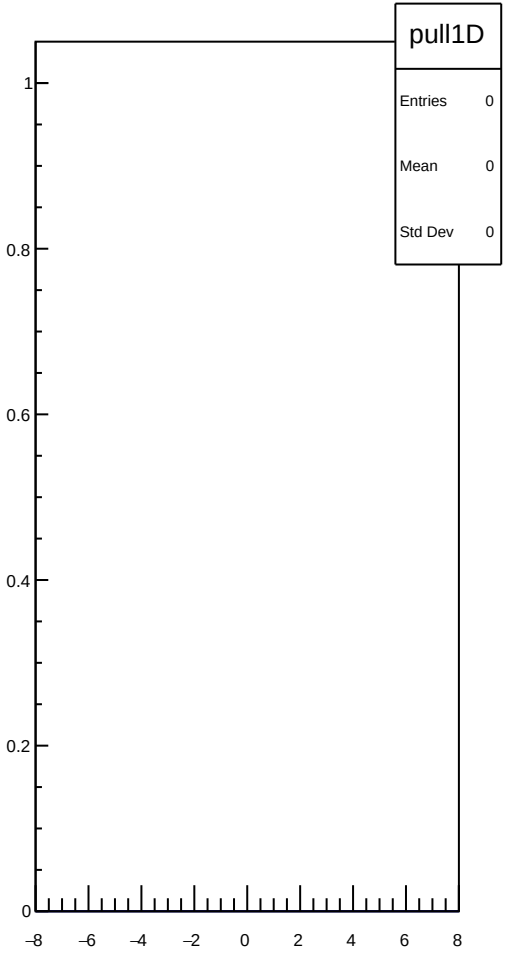

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

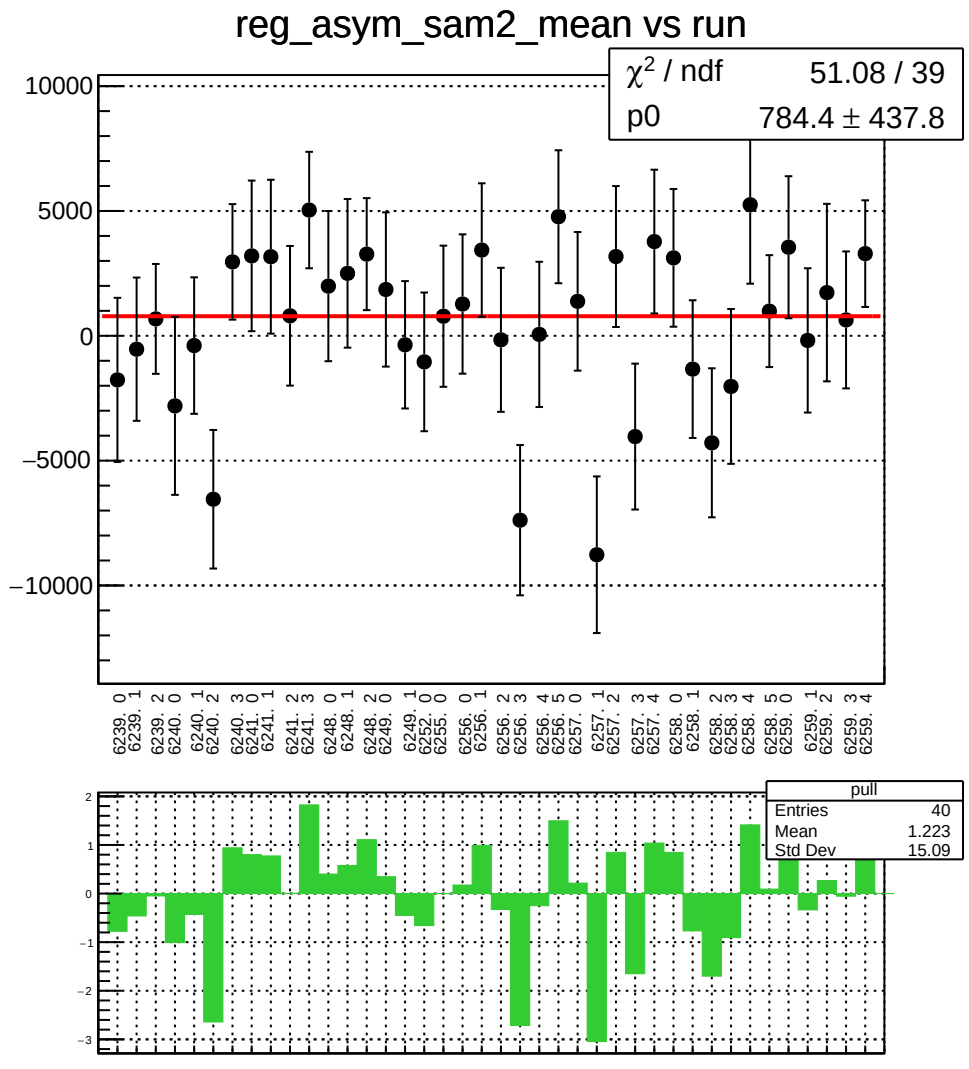

reg_asym_sam1_mean vs run
χ² / ndf 45.53 / 39
p0 −53.48 ± 107.8
3000
2000
1000
0
−1000
−2000
−3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −99.2
Std Dev 120.5
3
2
1
0
−1
−2
−3

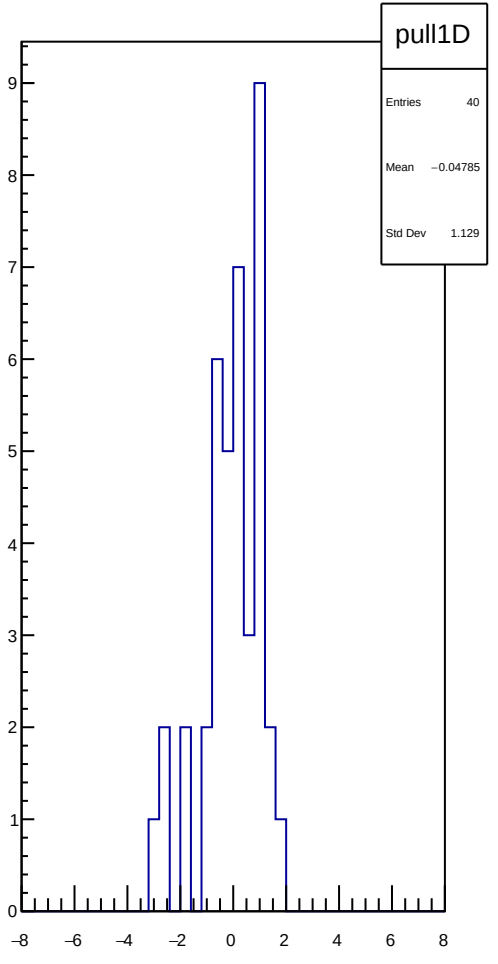

pull1D
Entries 40
Mean −0.0191
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

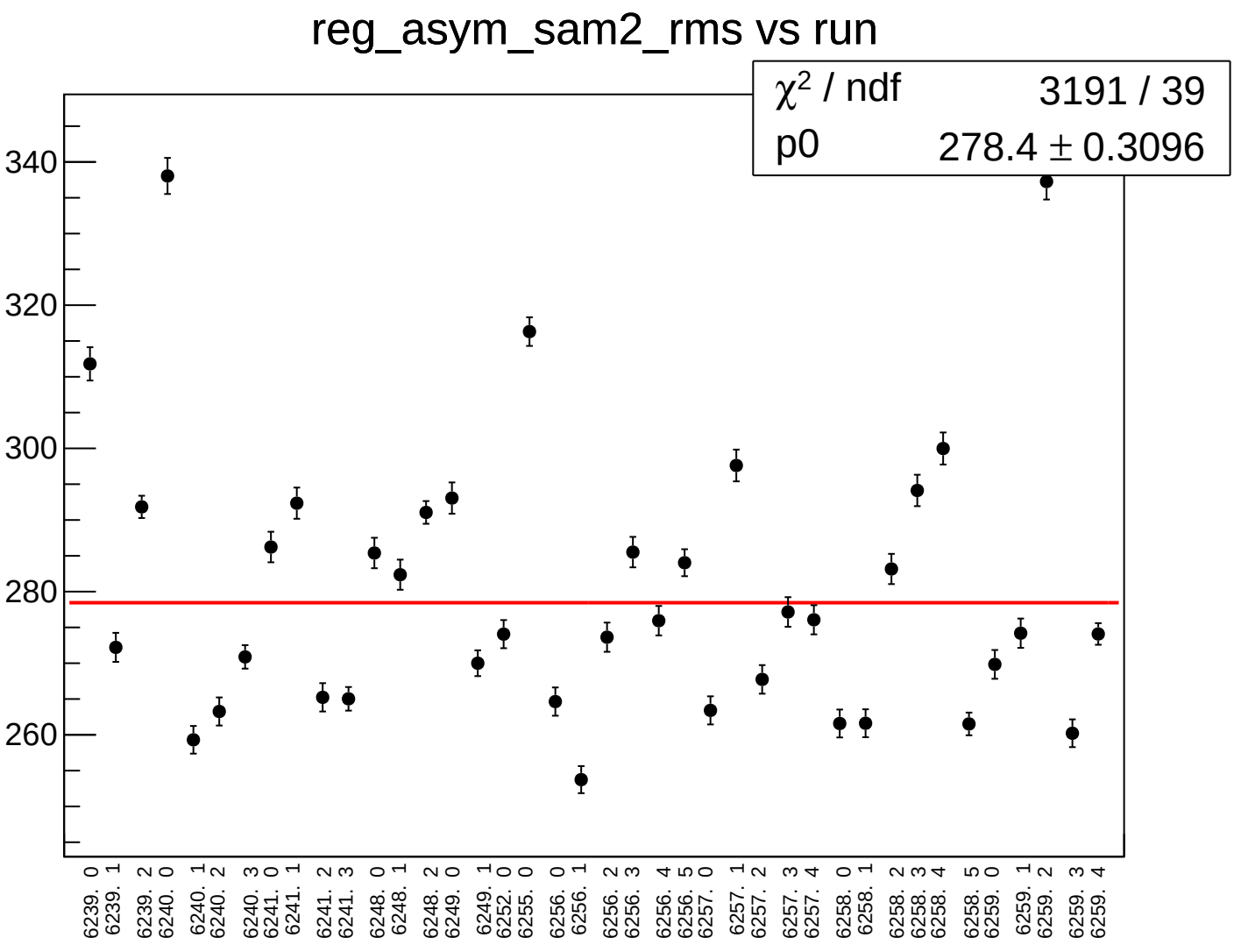

reg_asym_sam1_rms vs run
χ² / ndf 498.1 / 39
p0 68.66 ± 0.0762
72
70
68
66
64
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

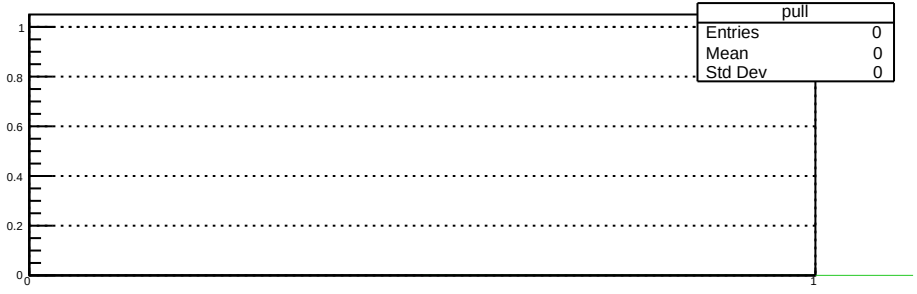

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

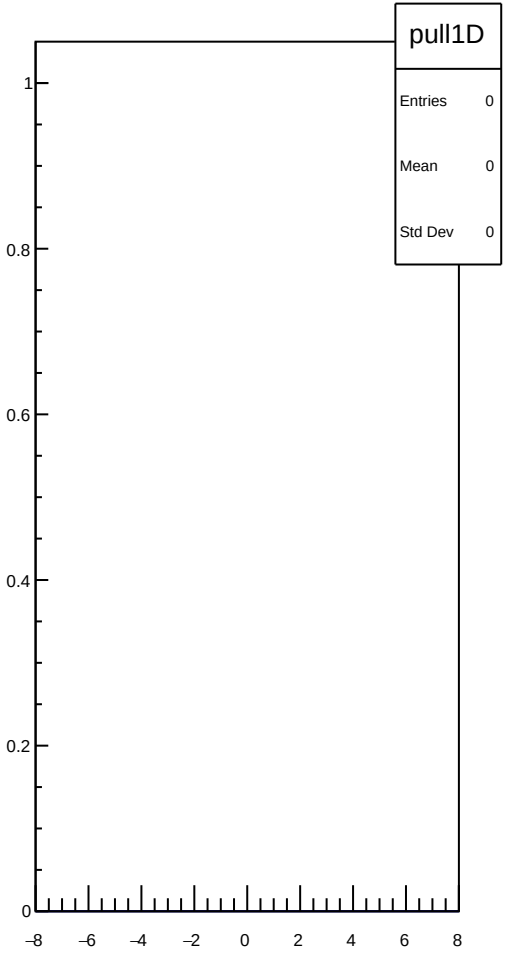

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

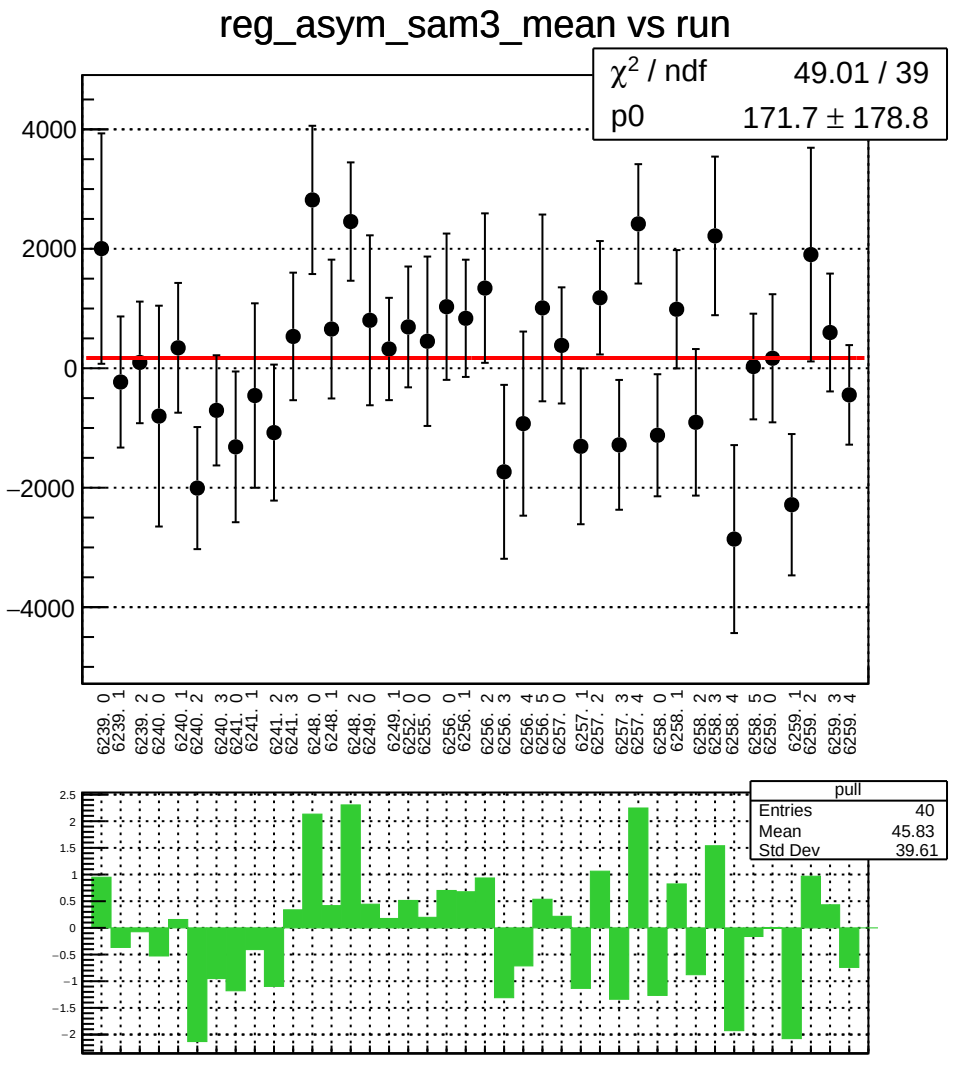

reg_asym_sam2_mean vs run
$\chi^2$ / ndf 51.08 / 39
p0 784.4 ± 437.8
10000
5000
0
−5000
−10000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1.223
Std Dev 15.09
2
1
0
−1
−2
−3

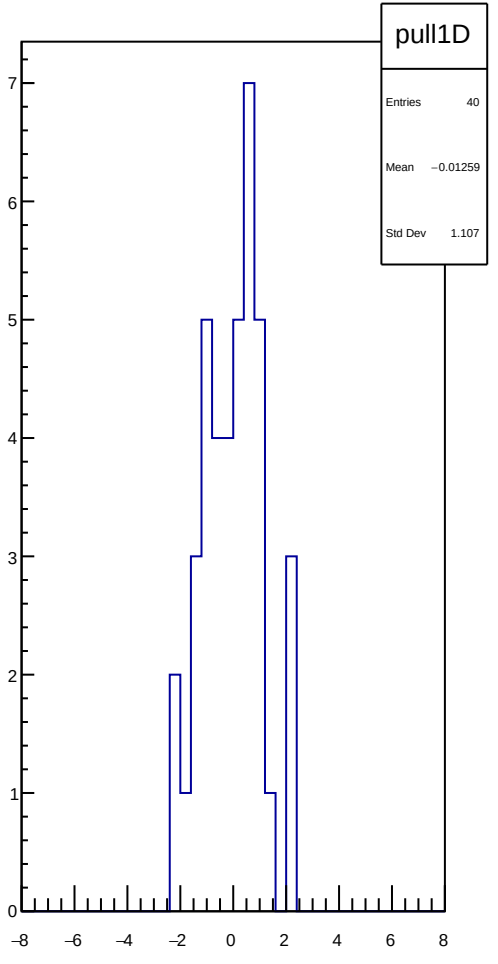

pull1D
Entries 40
Mean −0.04785
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

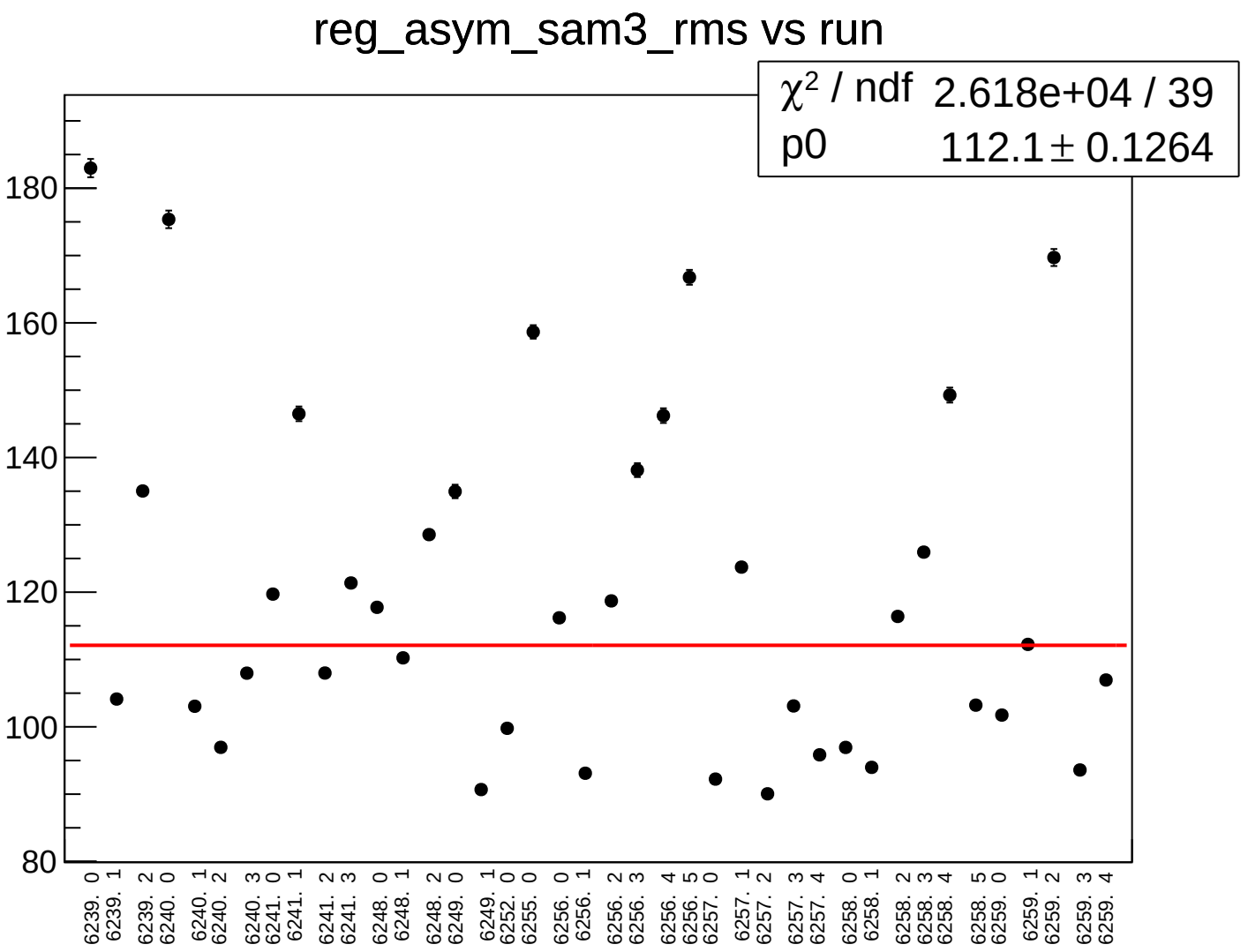

reg_asym_sam2_rms vs run
χ² / ndf 3191 / 39
p0 278.4 ± 0.3096
340
320
300
280
260
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

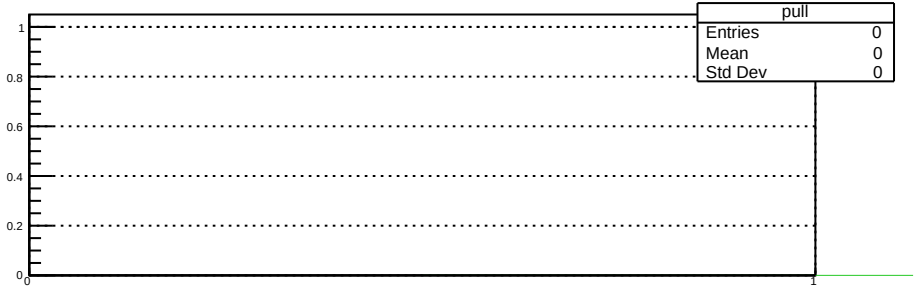

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

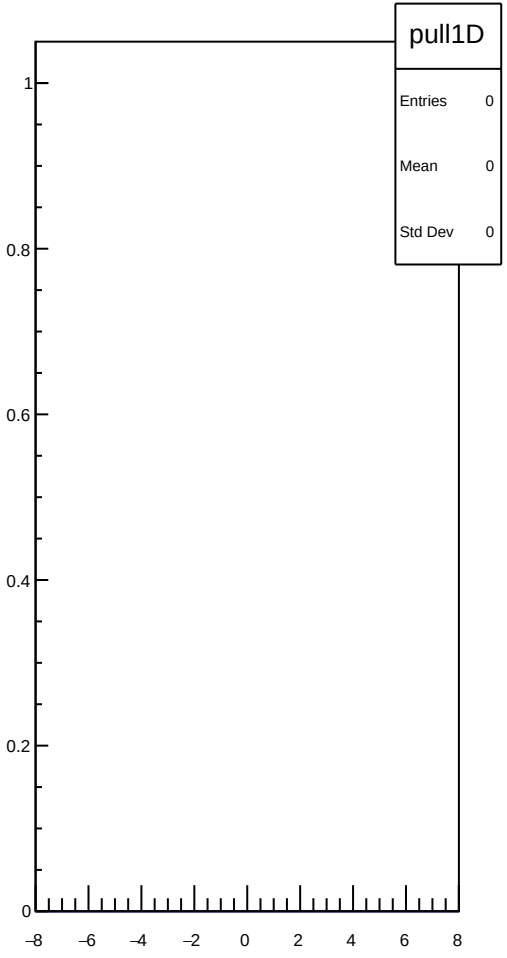

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

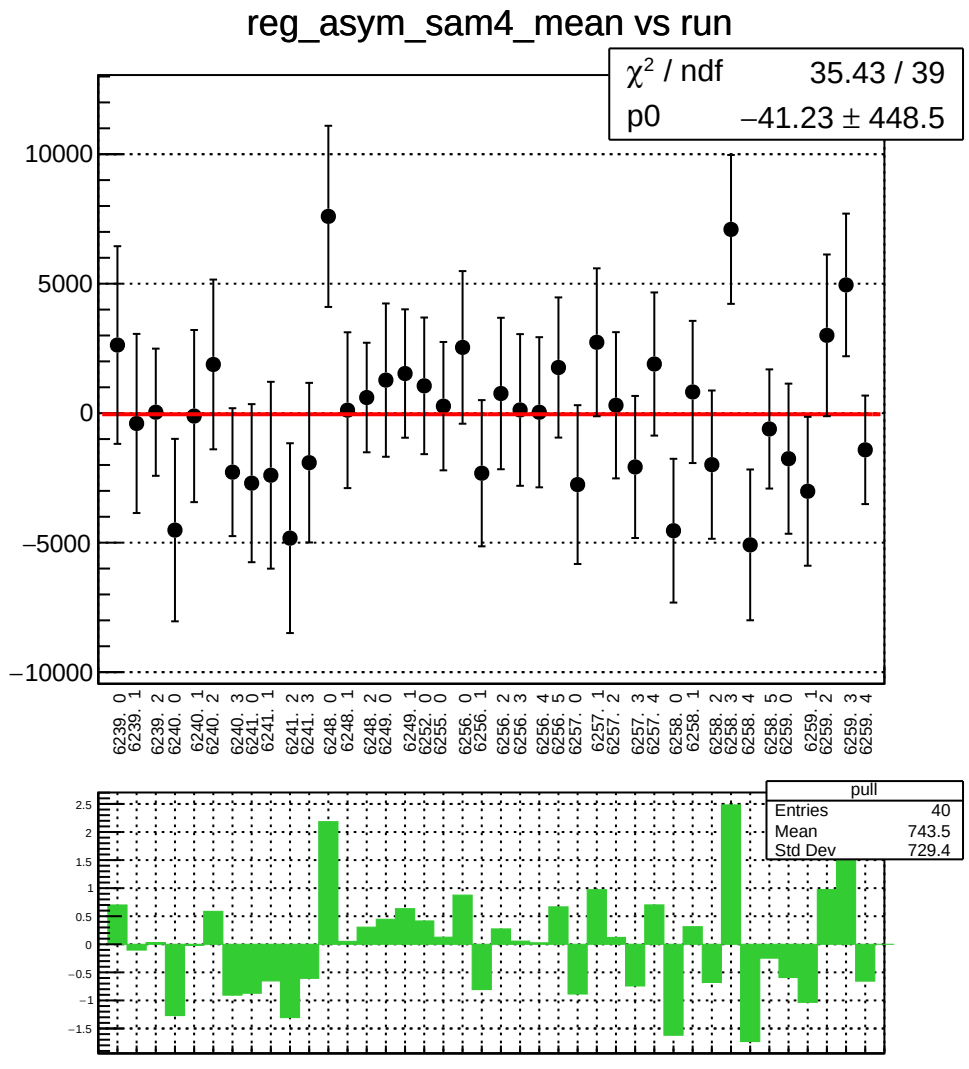

reg_asym_sam3_mean vs run
χ² / ndf 49.01 / 39
p0 171.7 ± 178.8
4000
2000
0
−2000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 45.83
Std Dev 39.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

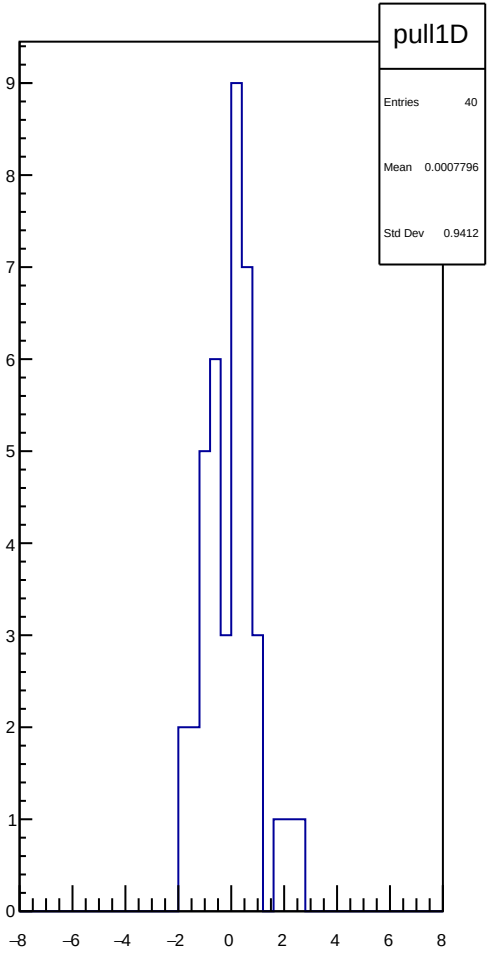

pull1D
Entries 40
Mean −0.01259
Std Dev 1.107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

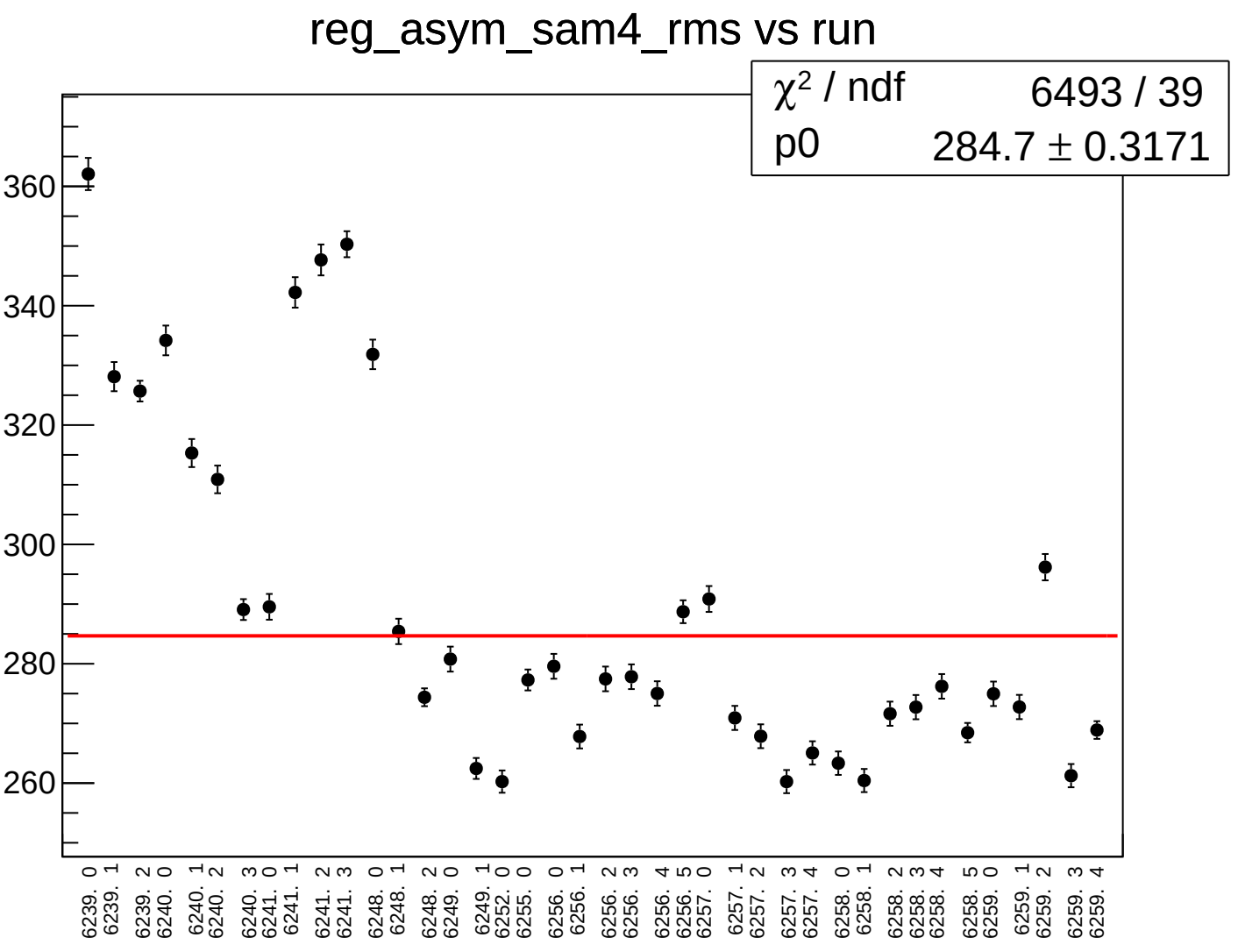

reg_asym_sam3_rms vs run
χ² / ndf 2.618e+04 / 39
p0 112.1 ± 0.1264
180
160
140
120
100
80
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

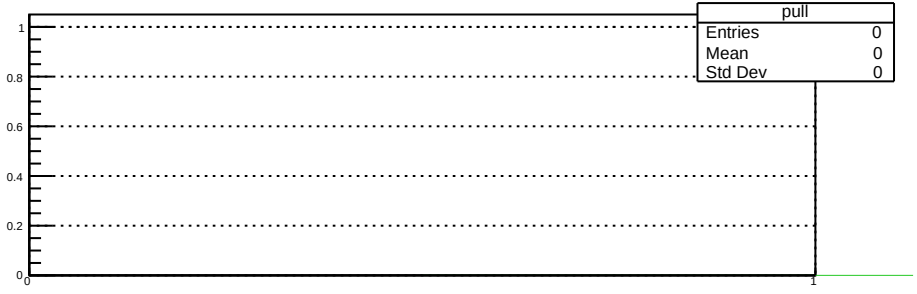

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

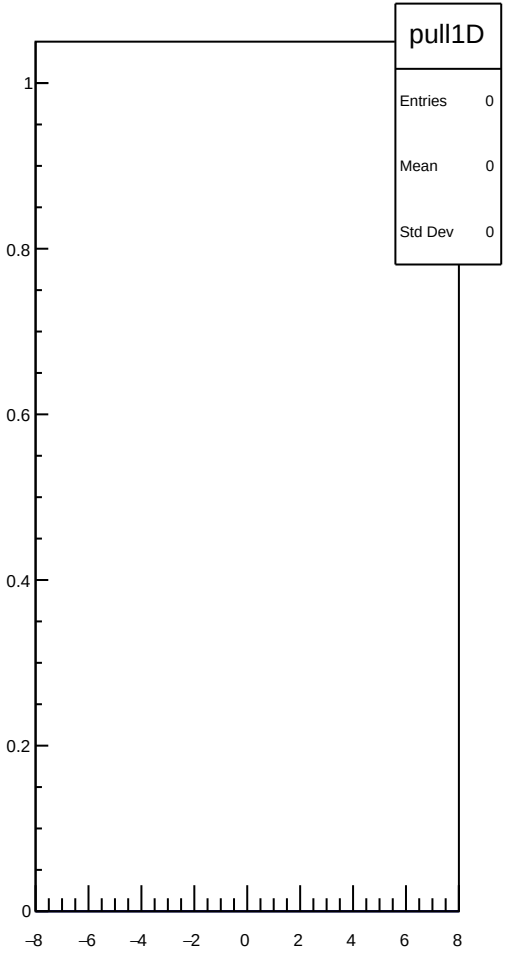

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

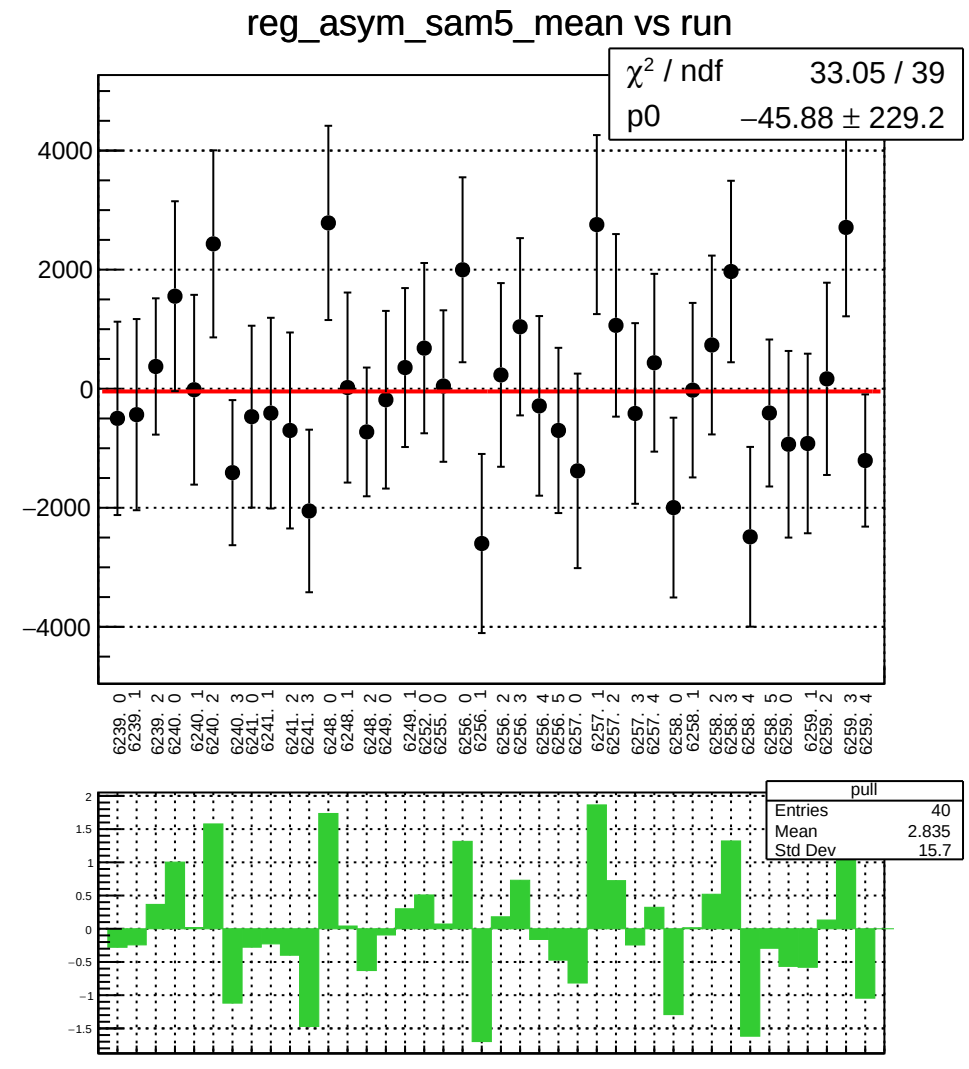

reg_asym_sam4_mean vs run
χ² / ndf 35.43 / 39
p0 −41.23 ± 448.5
10000
5000
0
−5000
−10000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 743.5
Std Dev 729.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

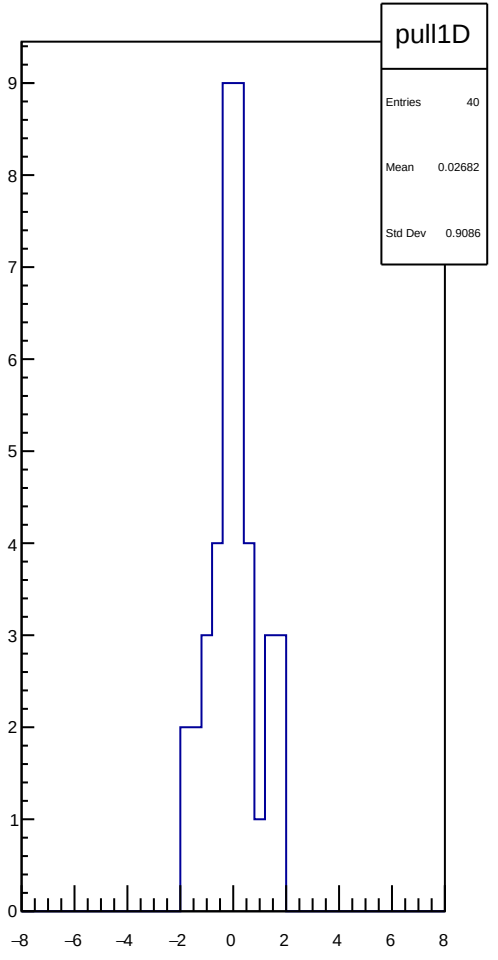

pull1D
Entries 40
Mean 0.0007796
Std Dev 0.9412
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

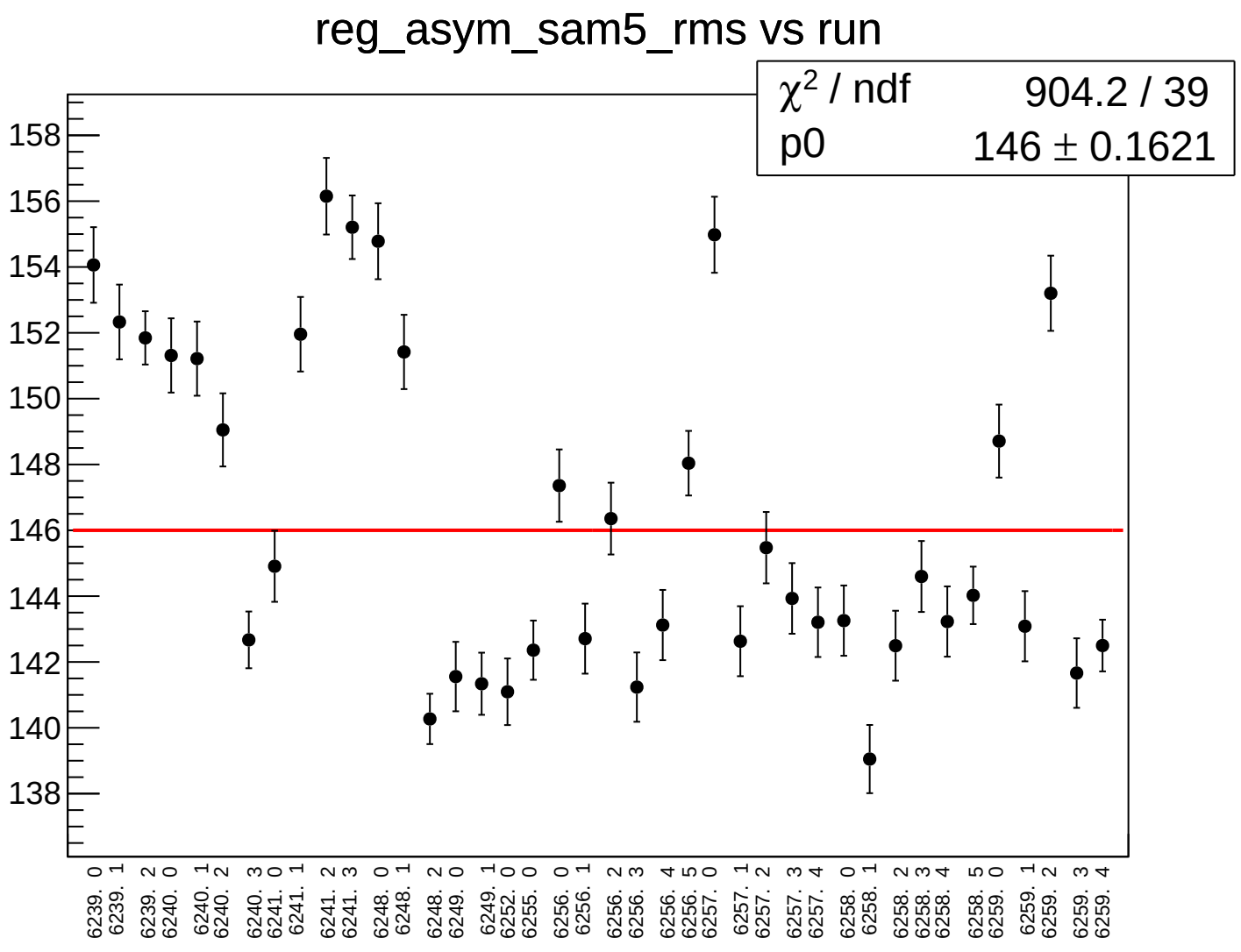

reg_asym_sam4_rms vs run
χ² / ndf 6493 / 39
p0 284.7 ± 0.3171
360
340
320
300
280
260
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

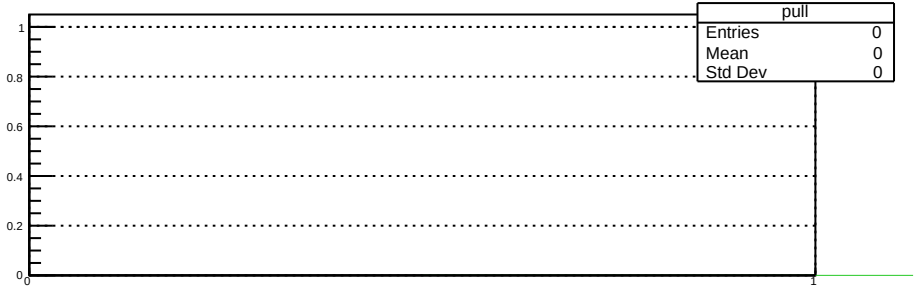

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

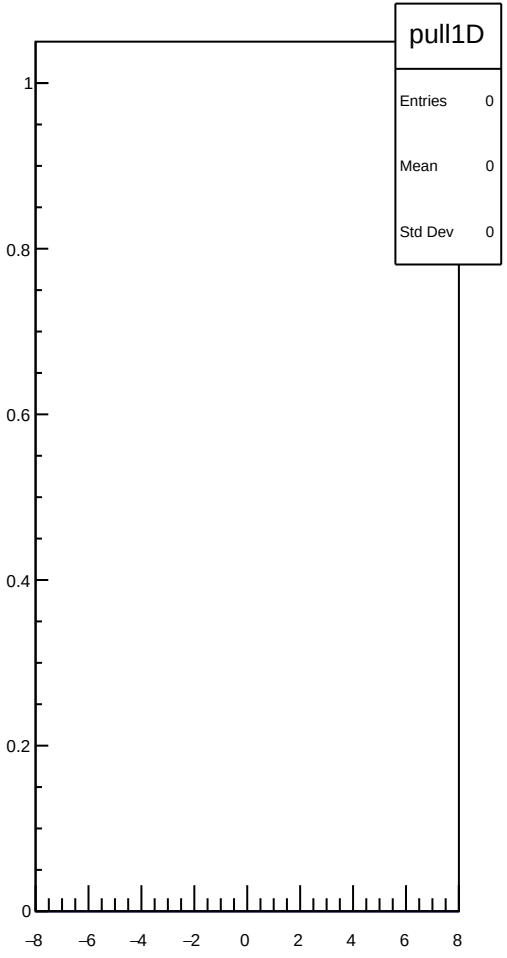

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

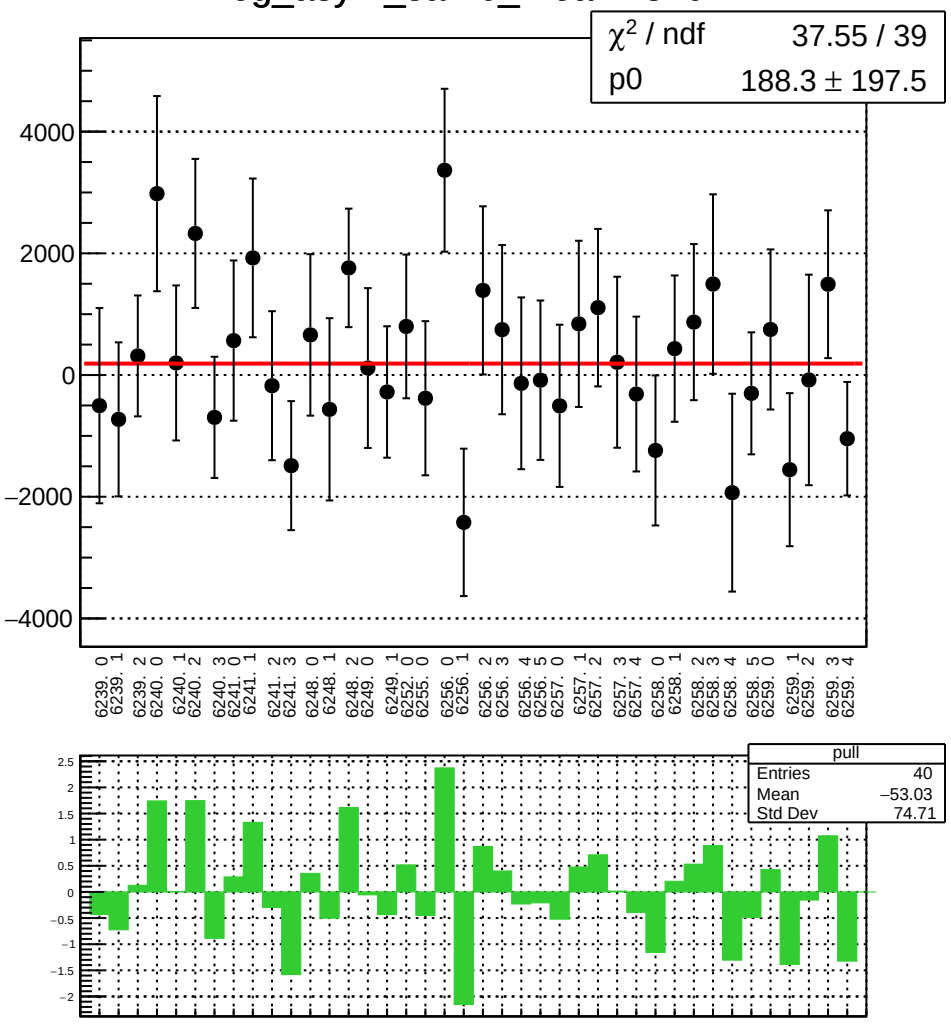

reg_asym_sam5_mean vs run
χ² / ndf 33.05 / 39
p0 −45.88 ± 229.2
4000
2000
0
−2000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 2.835
Std Dev 15.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

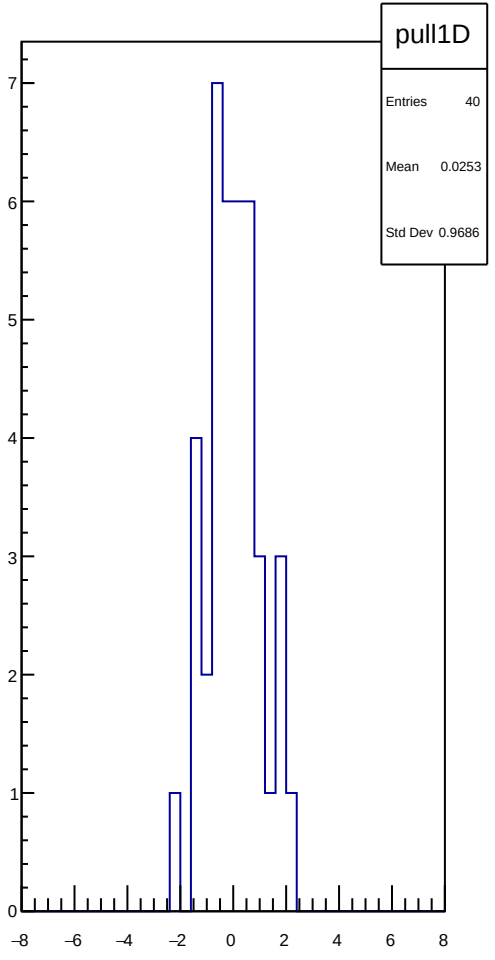

pull1D
Entries 40
Mean 0.02682
Std Dev 0.9086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

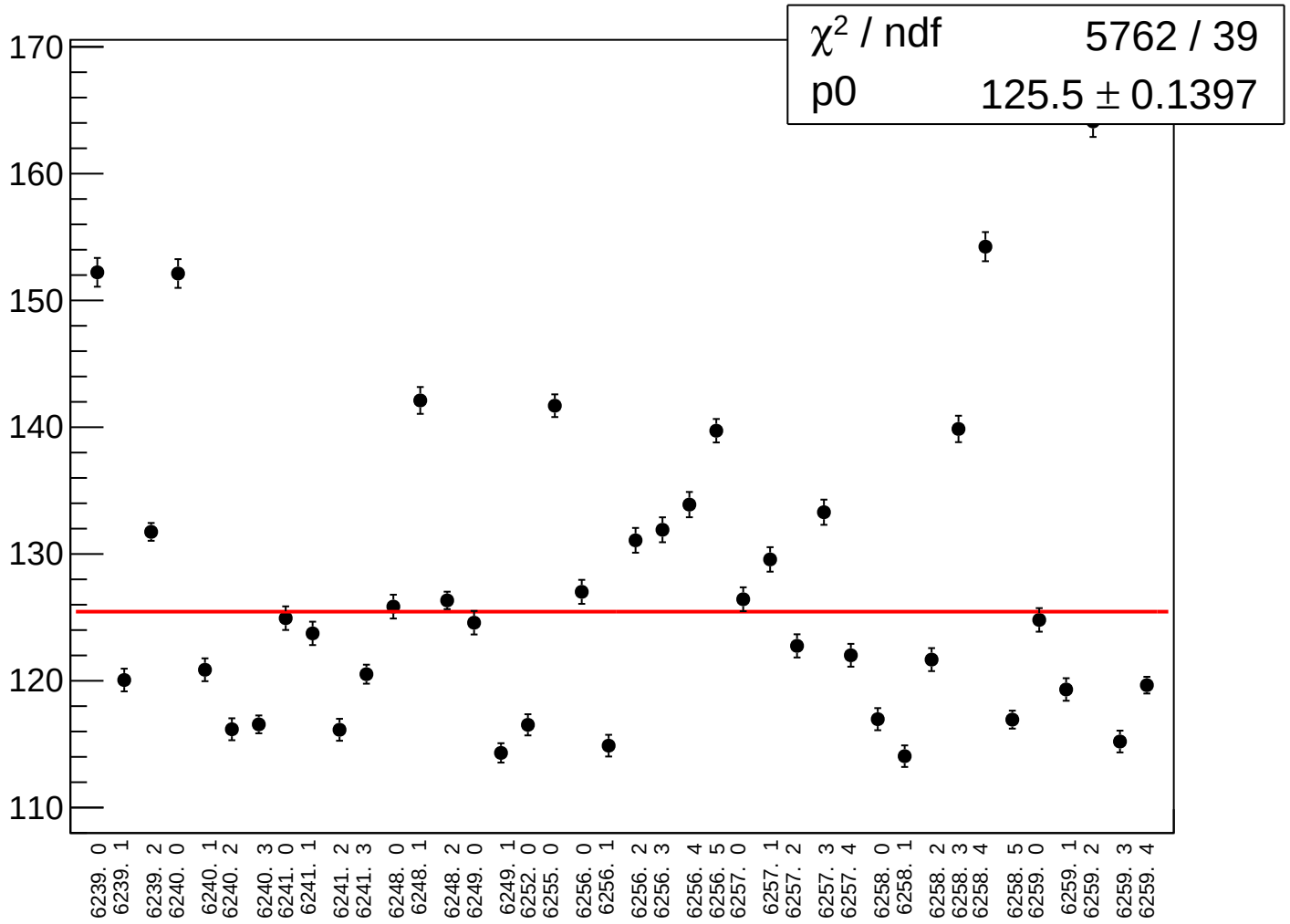

reg_asym_sam5_rms vs run
χ² / ndf 904.2 / 39
p0 146 ± 0.1621
158
156
154
152
150
148
146
144
142
140
138
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

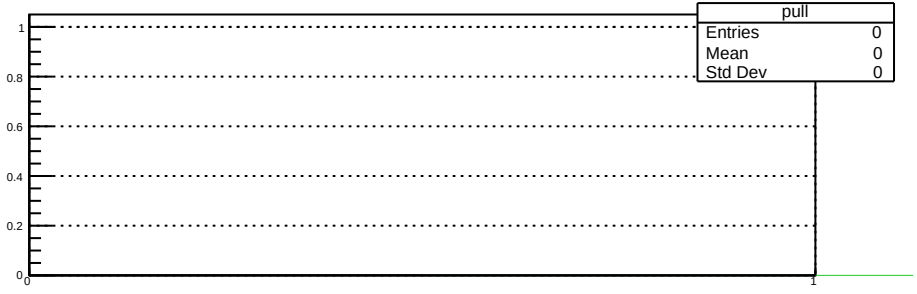

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

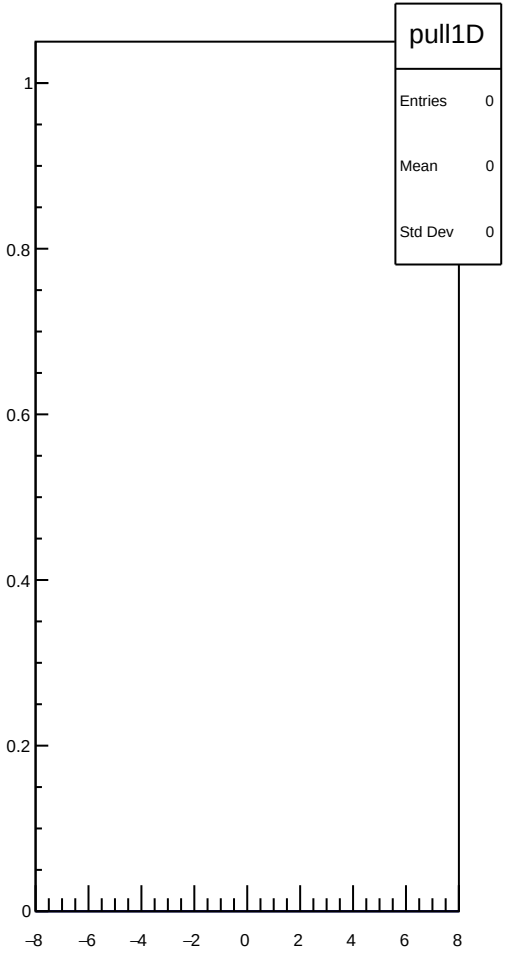

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

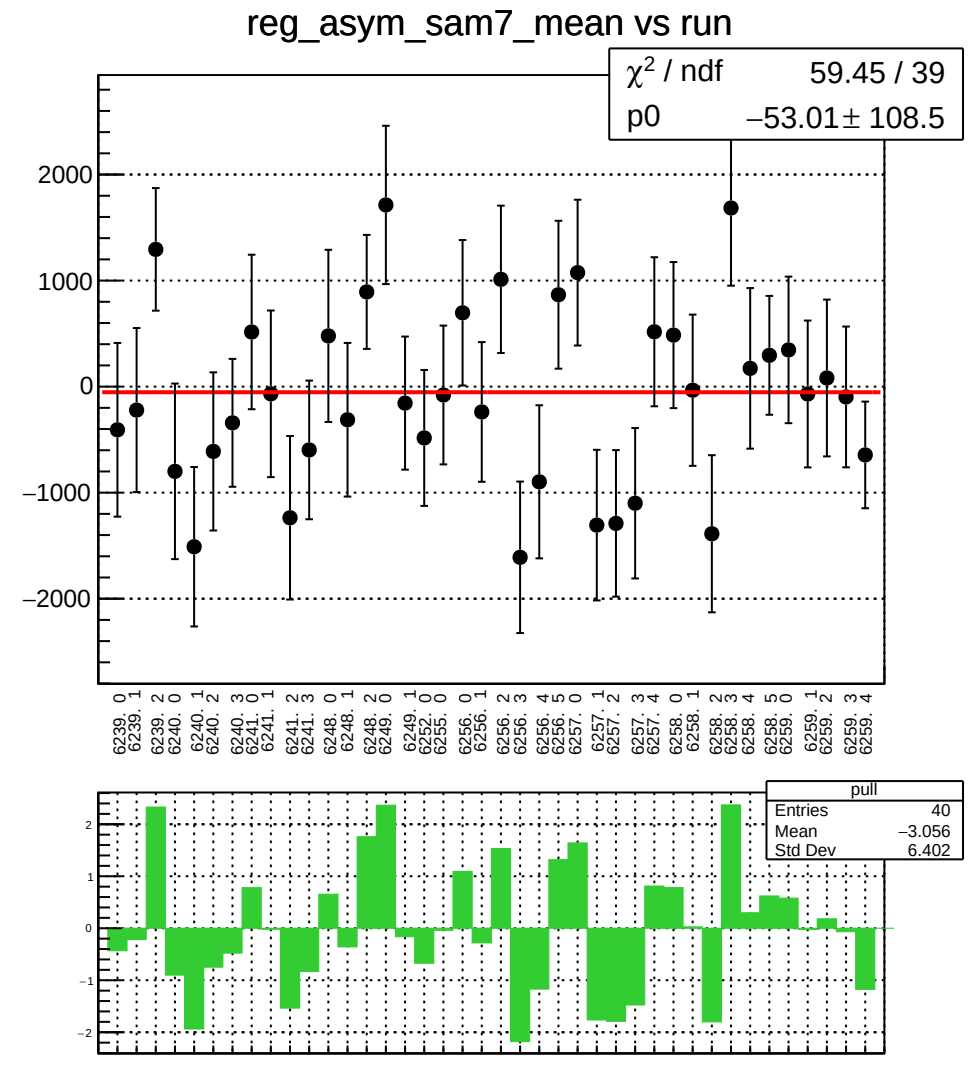

reg_asym_sam6_mean vs run
χ² / ndf 37.55 / 39
p0 188.3 ± 197.5
4000
2000
0
−2000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −53.03
Std Dev 74.71
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

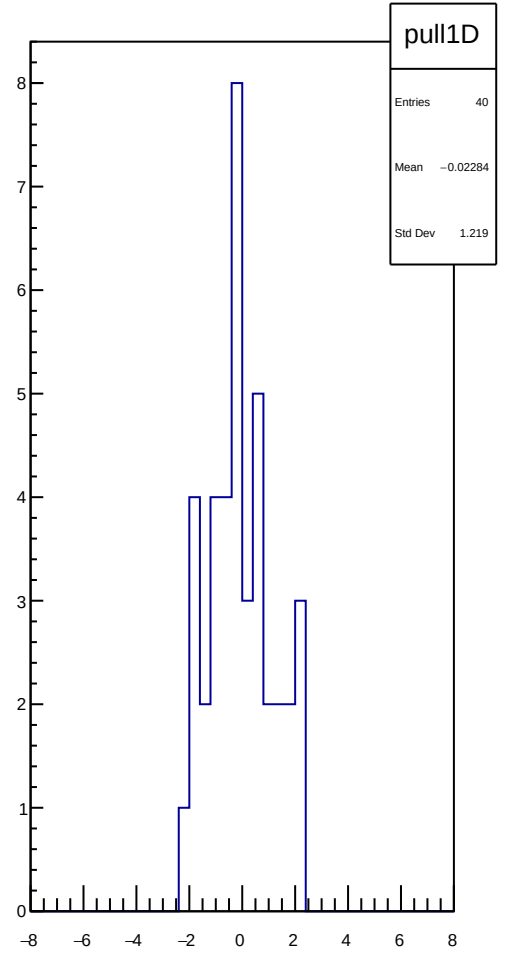

pull1D
Entries 40
Mean 0.0253
Std Dev 0.9686
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

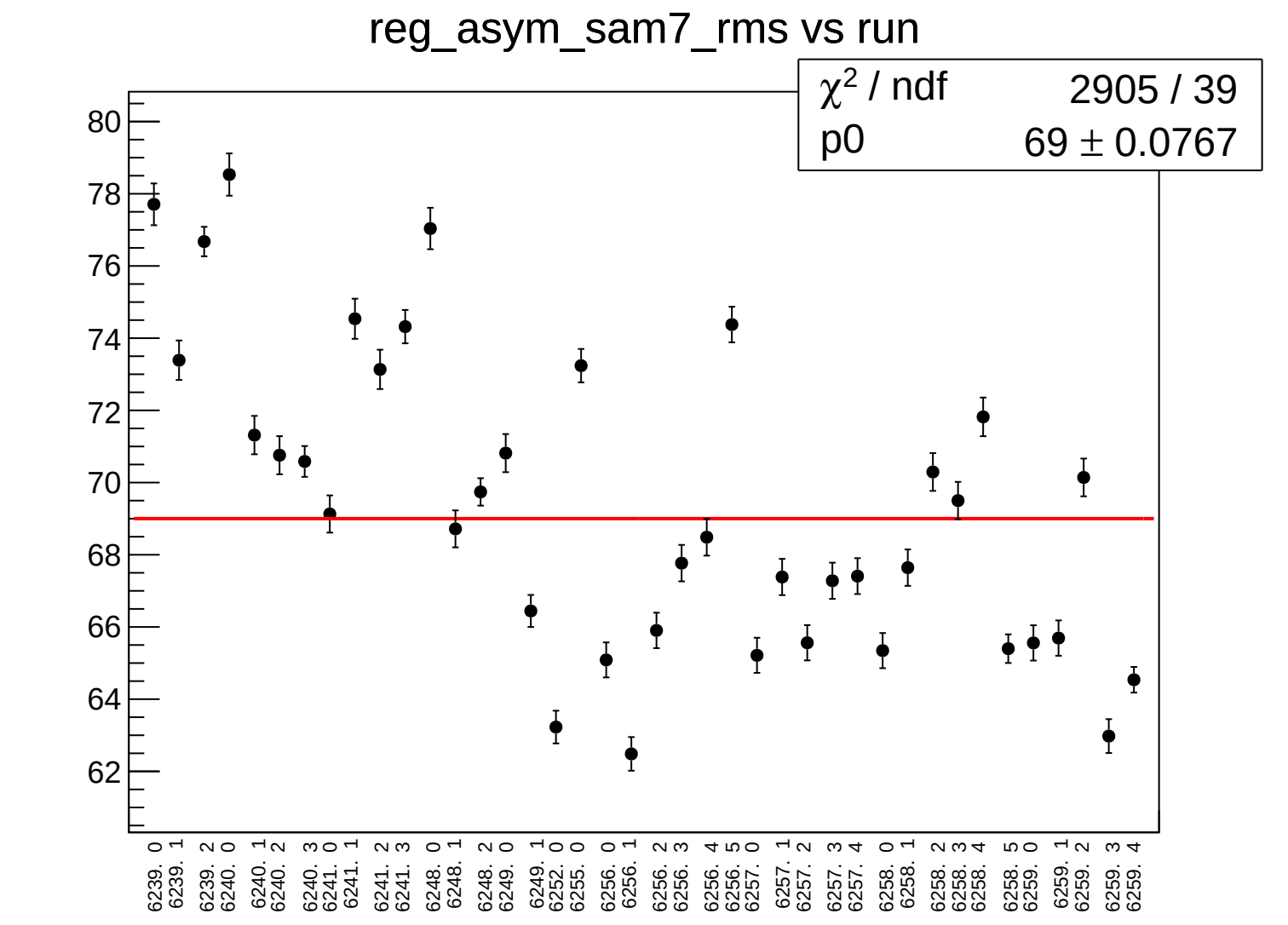

reg_asym_sam6_rms vs run
χ² / ndf 5762 / 39
p0 125.5 ± 0.1397
170
160
150
140
130
120
110
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

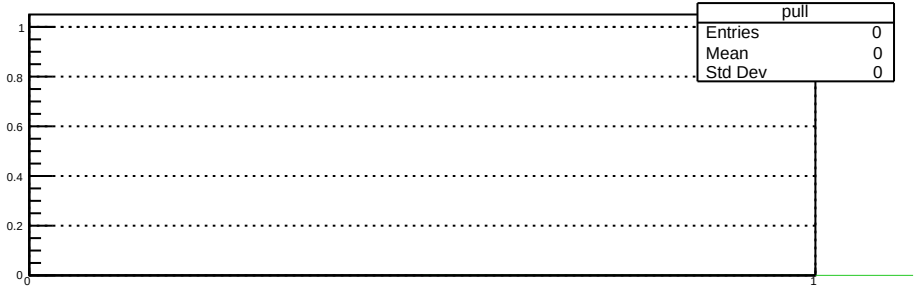

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

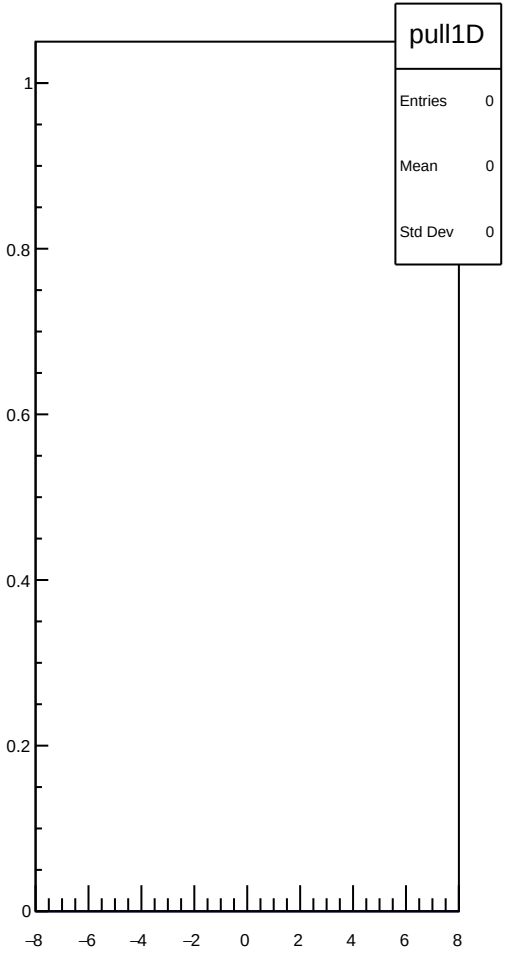

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

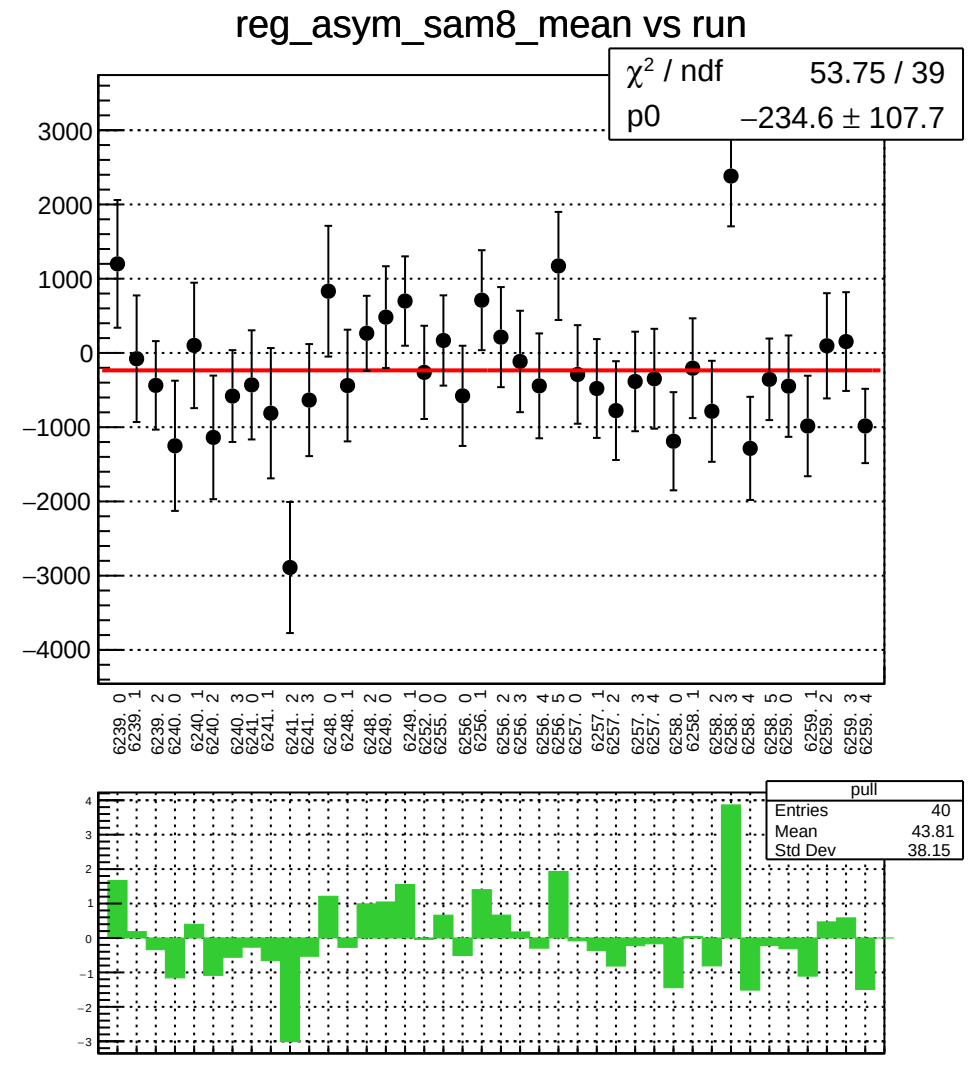

reg_asym_sam7_mean vs run
χ² / ndf 59.45 / 39
p0 −53.01 ± 108.5
2000
1000
0
−1000
−2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −3.056
Std Dev 6.402
2
1
0
−1
−2

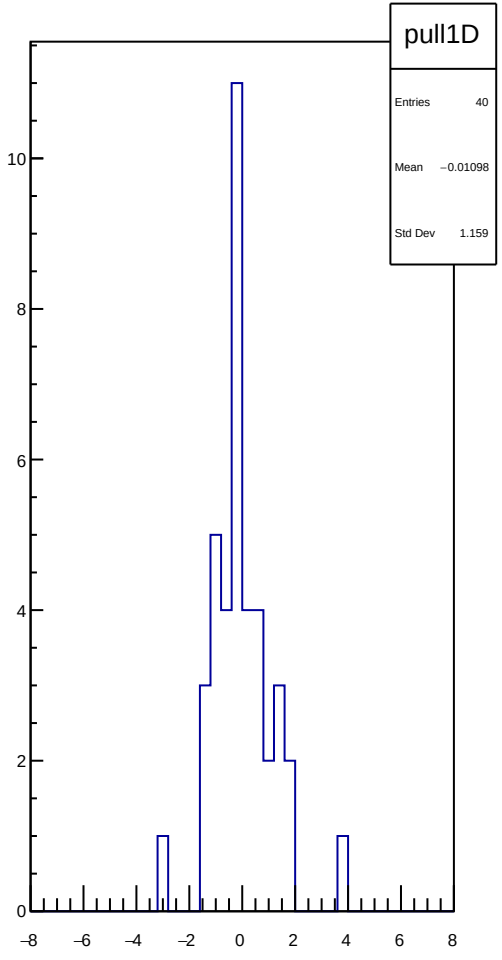

pull1D
Entries 40
Mean −0.02284
Std Dev 1.219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

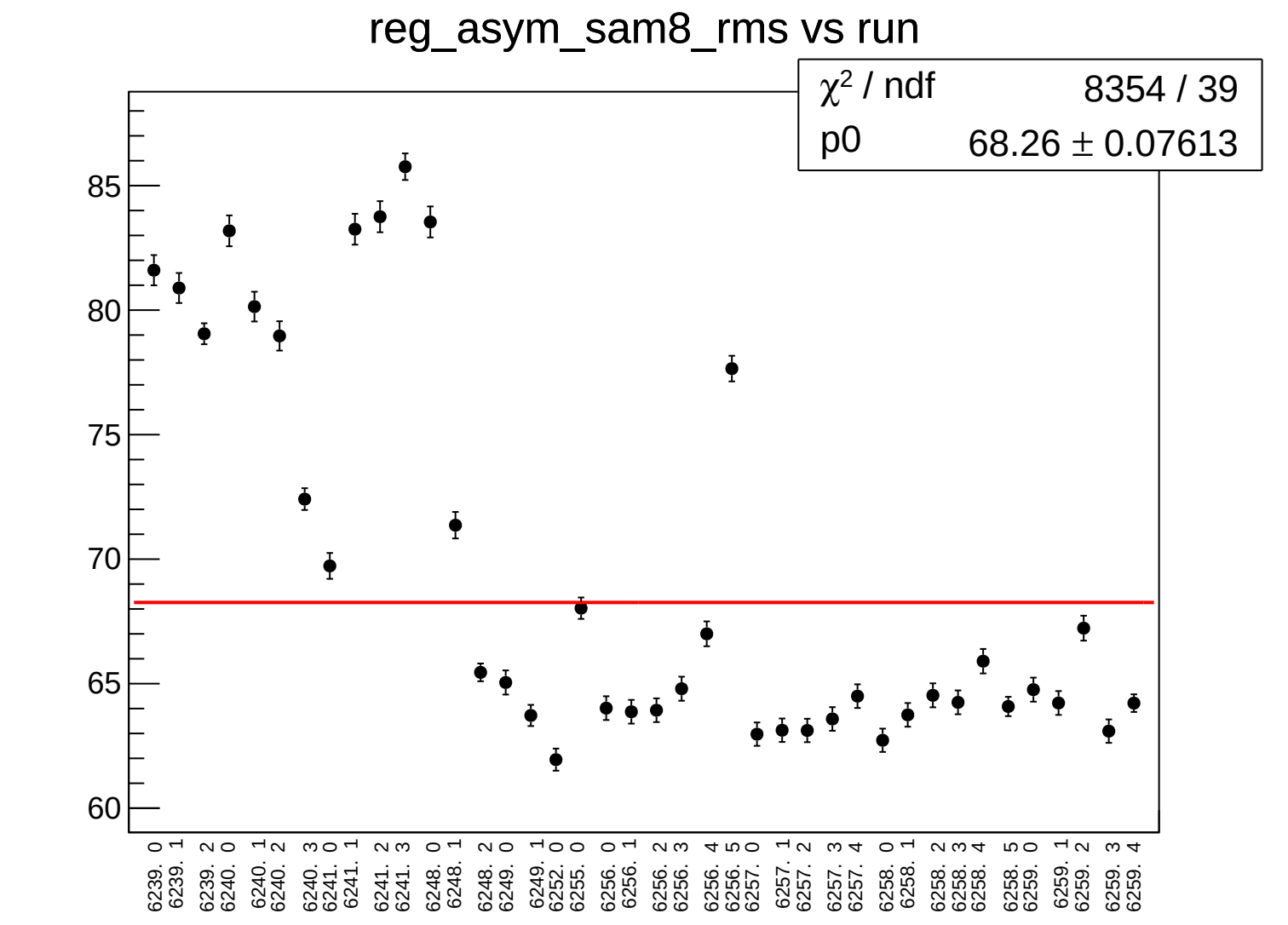

reg_asym_sam7_rms vs run
χ² / ndf 2905 / 39
p0 69 ± 0.0767
80
78
76
74
72
70
68
66
64
62
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

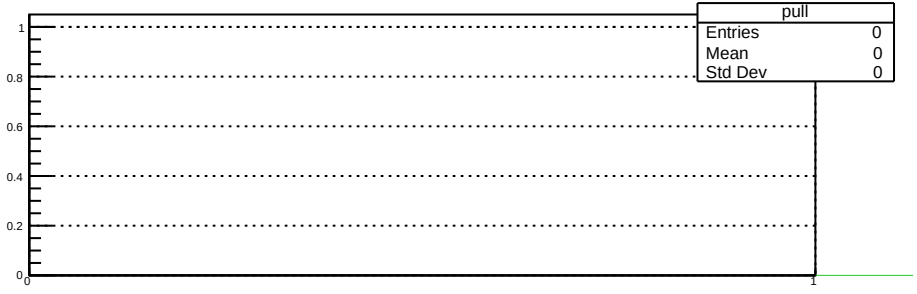

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

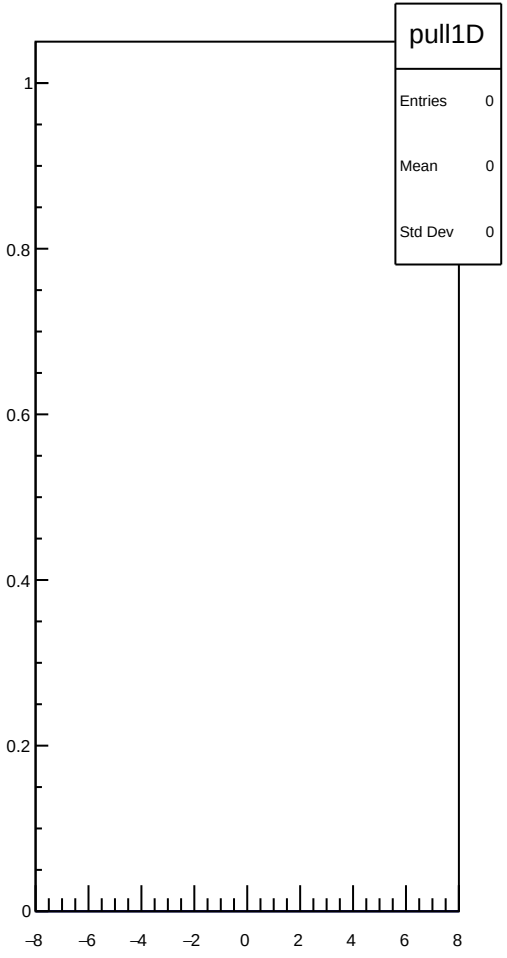

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

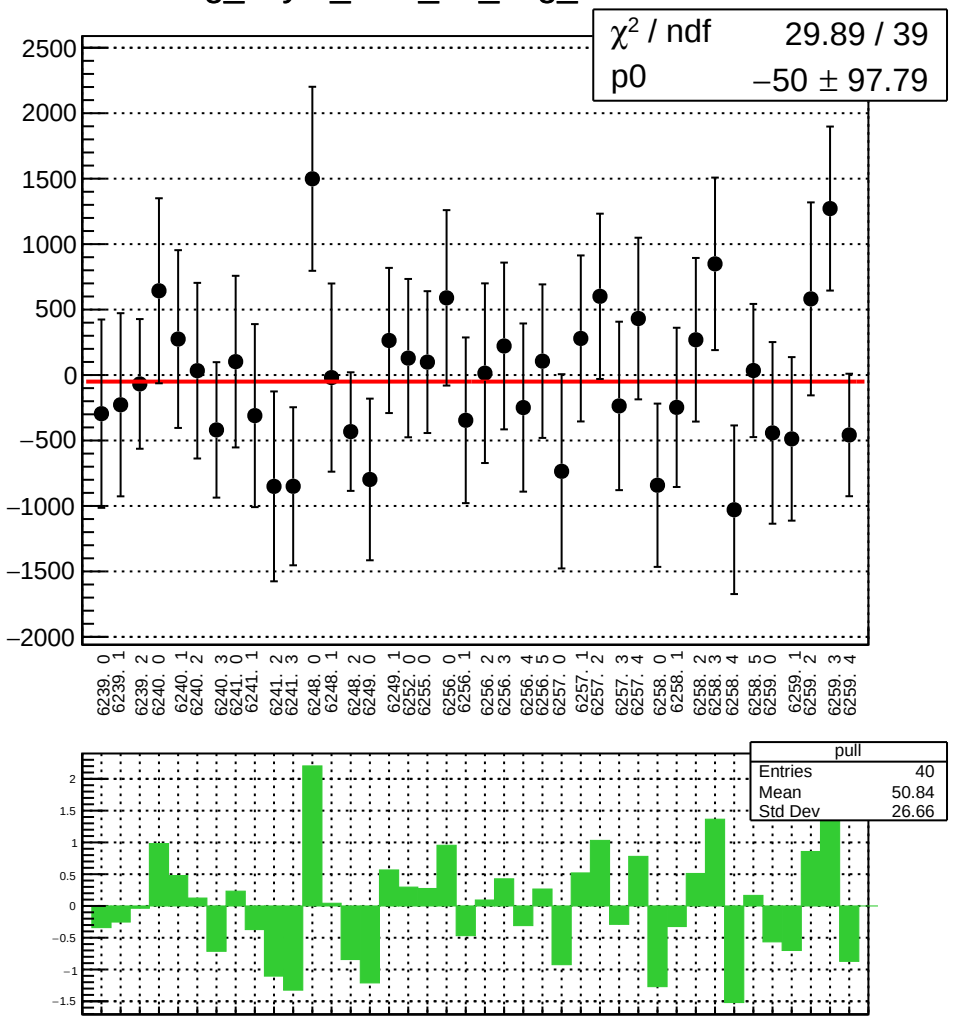

reg_asym_sam8_mean vs run
χ² / ndf 53.75 / 39
p0 −234.6 ± 107.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.81
Std Dev 38.15
4
3
2
1
0
−1
−2
−3

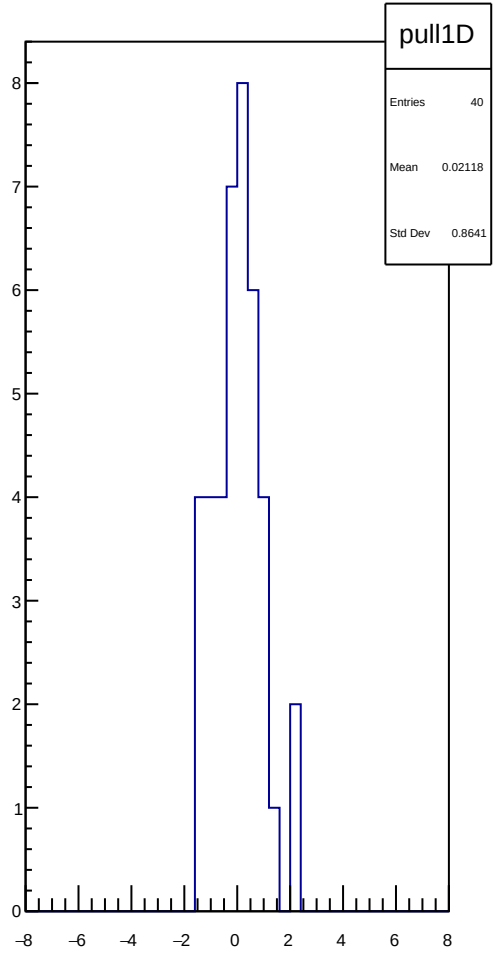

pull1D
Entries 40
Mean −0.01098
Std Dev 1.159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

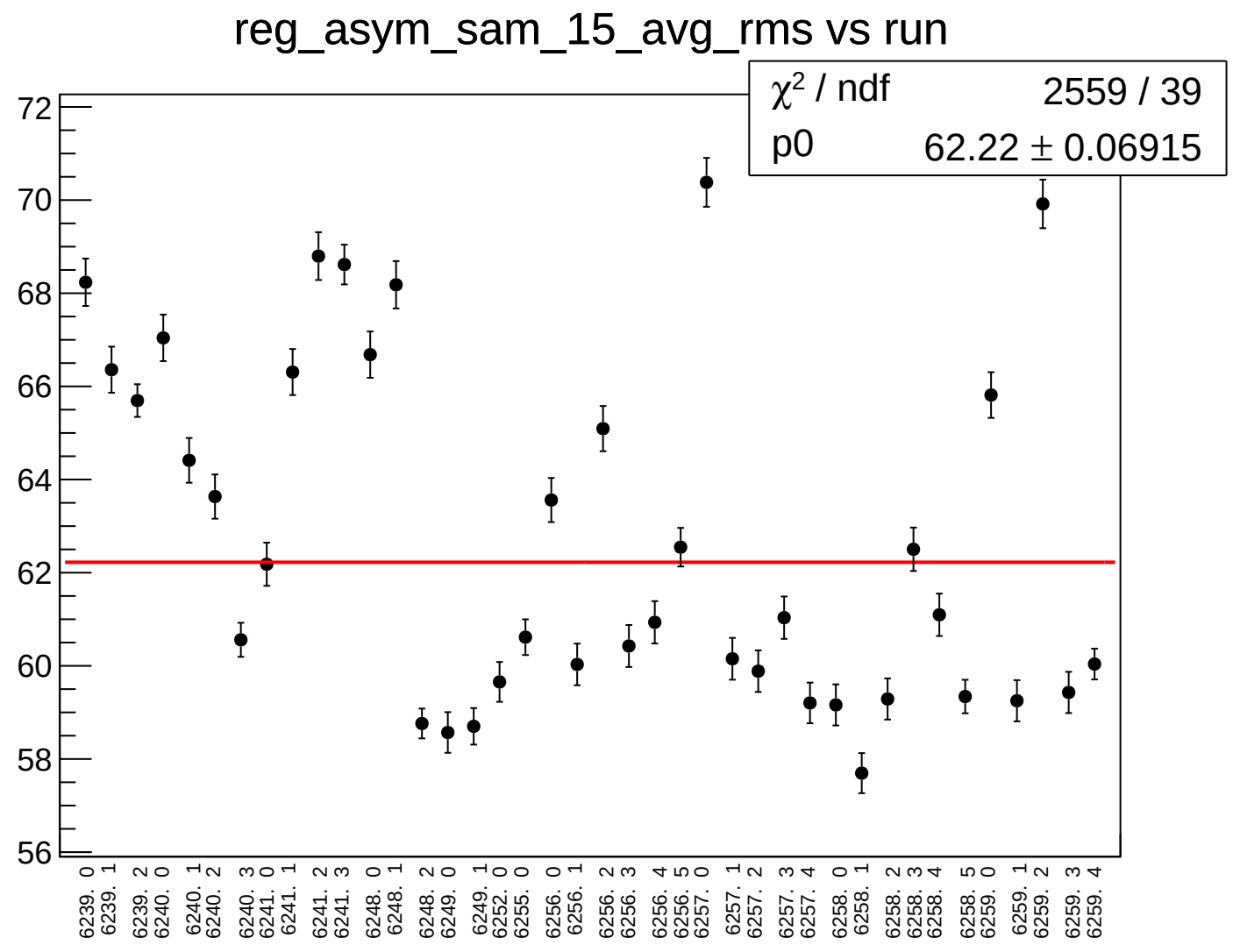

reg_asym_sam8_rms vs run
χ² / ndf 8354 / 39
p0 68.26 ± 0.07613
85
80
75
70
65
60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

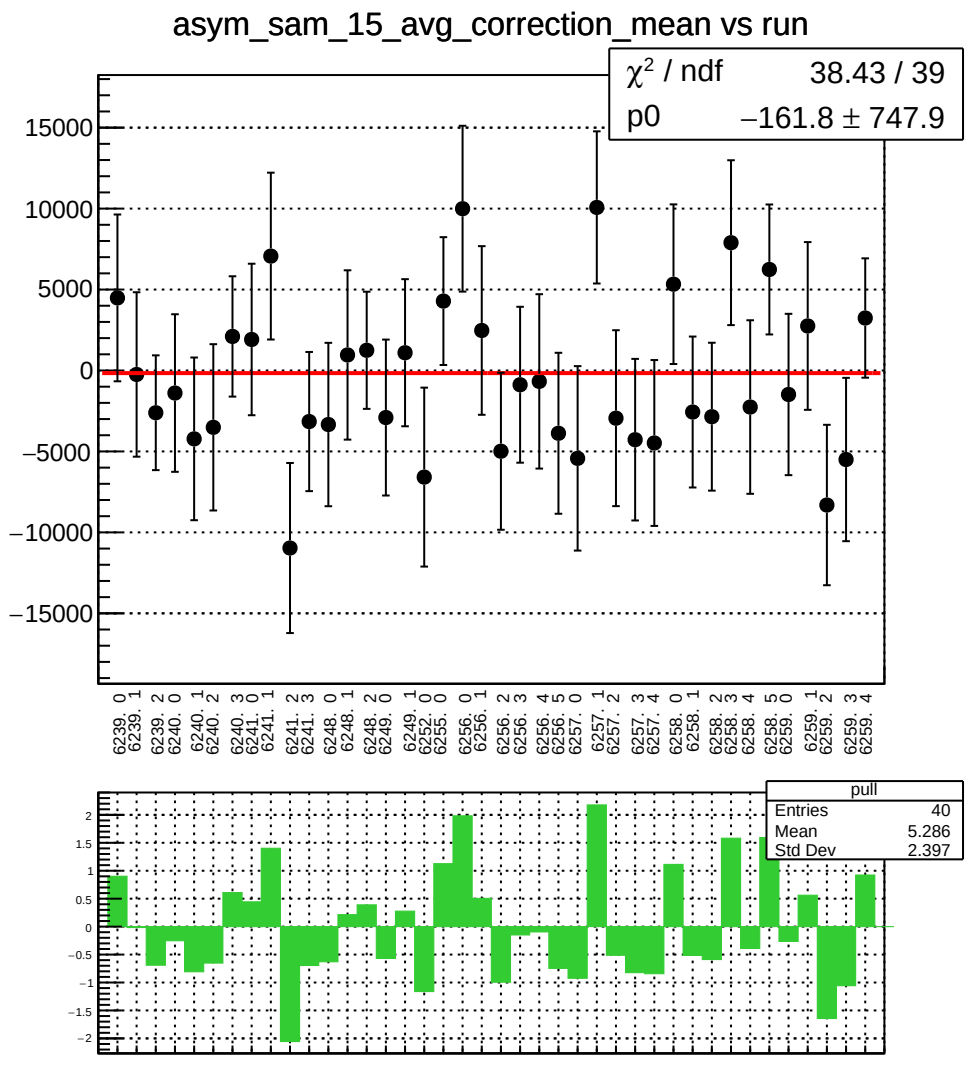

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

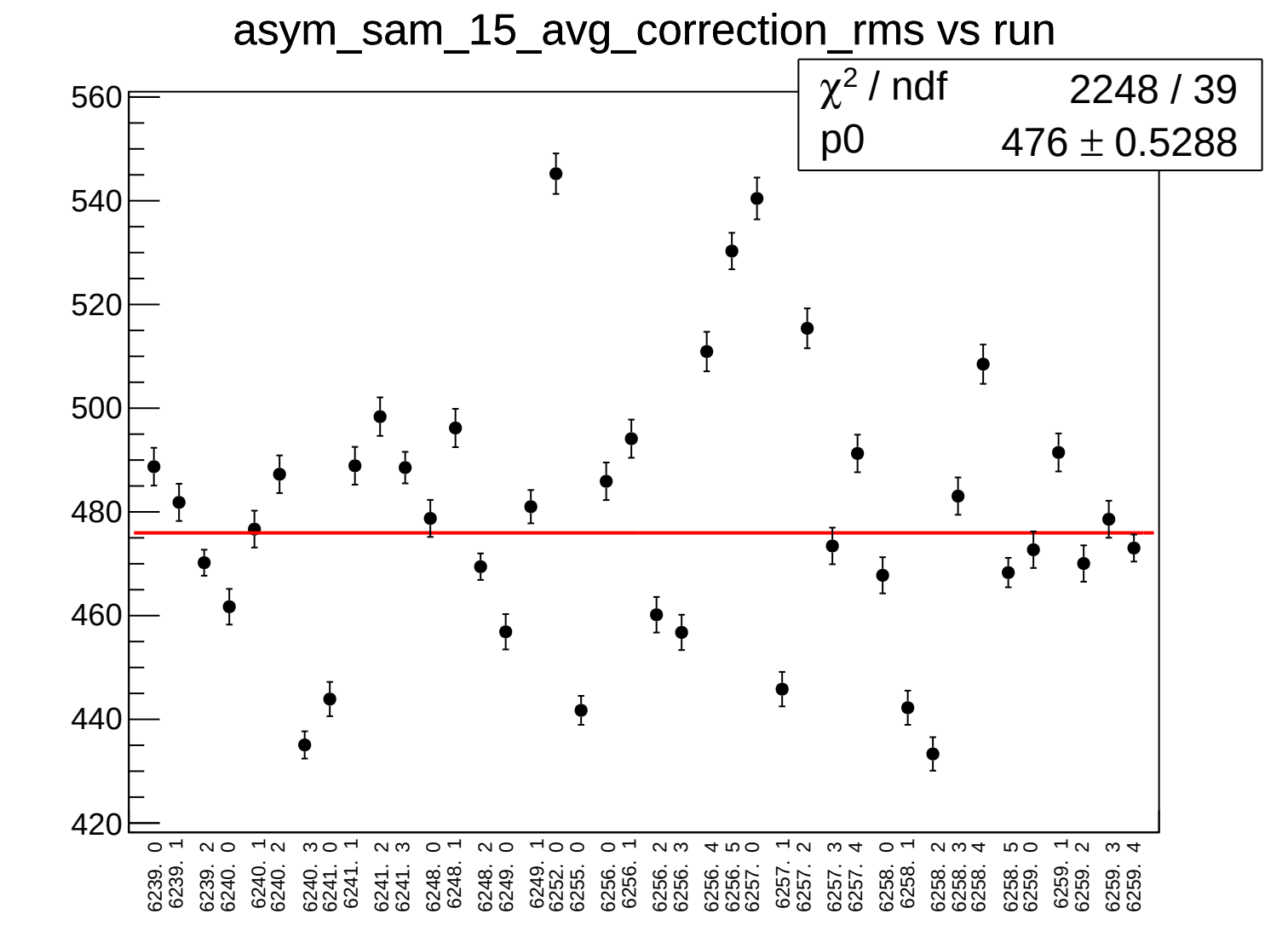

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

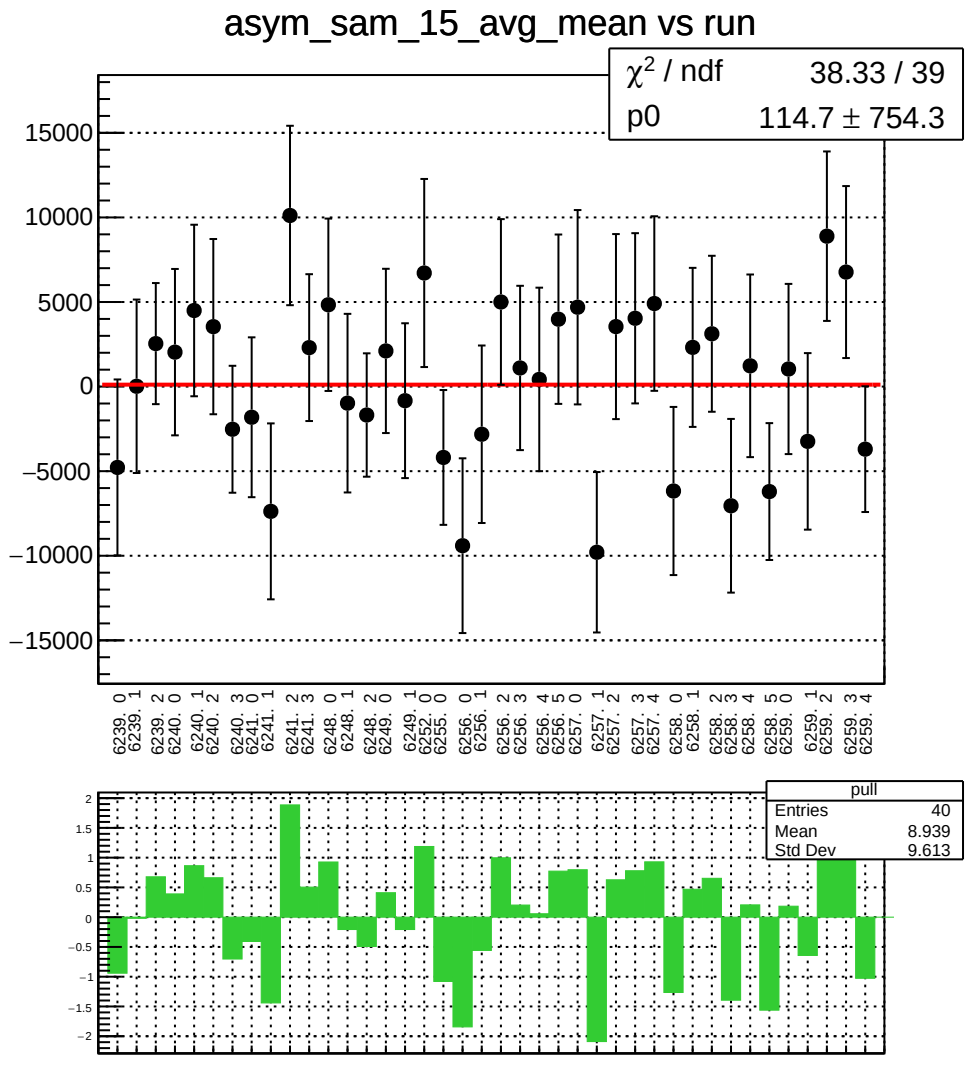

reg_asym_sam_15_avg_mean vs run
χ² / ndf 29.89 / 39
p0 −50 ± 97.79
pull
Entries 40
Mean 50.84
Std Dev 26.66

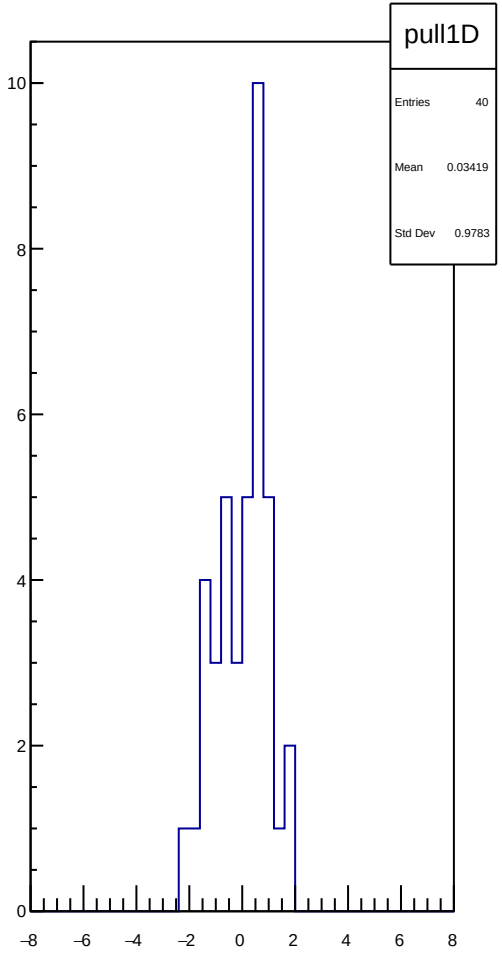

pull1D
Entries 40
Mean 0.02118
Std Dev 0.8641

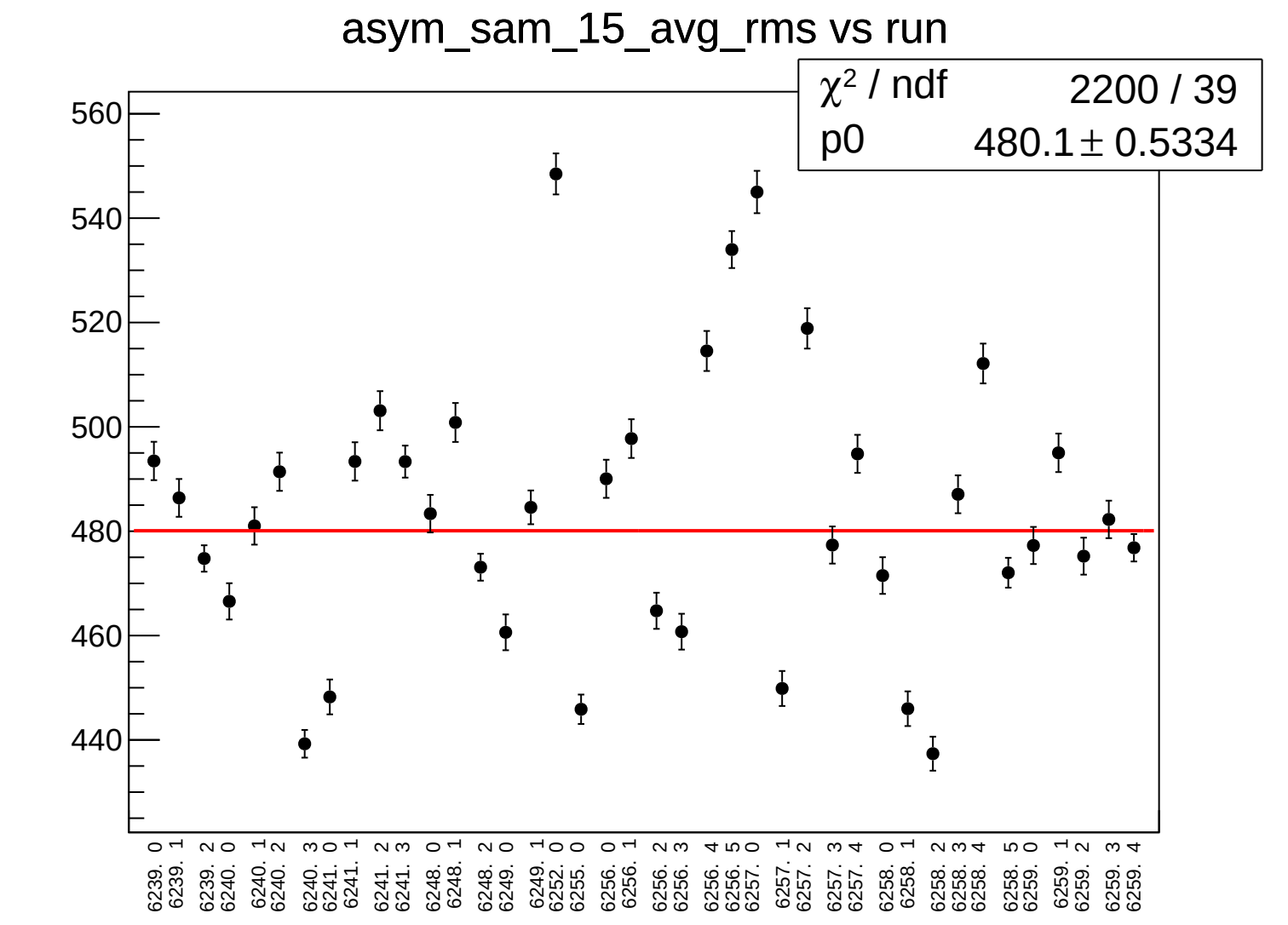

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2559 / 39
p0 62.22 ± 0.06915
72
70
68
66
64
62
60
58
56
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

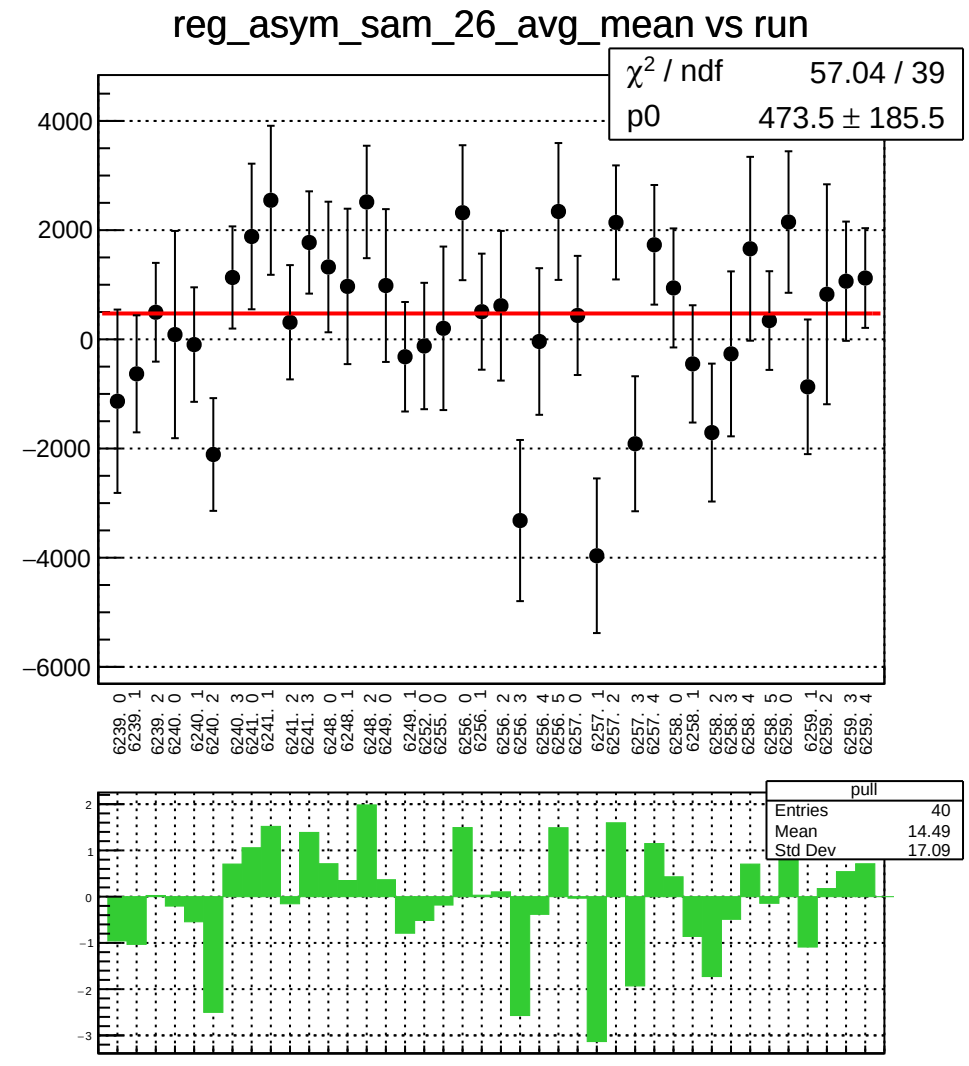

asym_sam_15_avg_correction_mean vs run
χ² / ndf 38.43 / 39
p0 −161.8 ± 747.9
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 5.286
Std Dev 2.397
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean −0.03193
Std Dev 0.9797
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

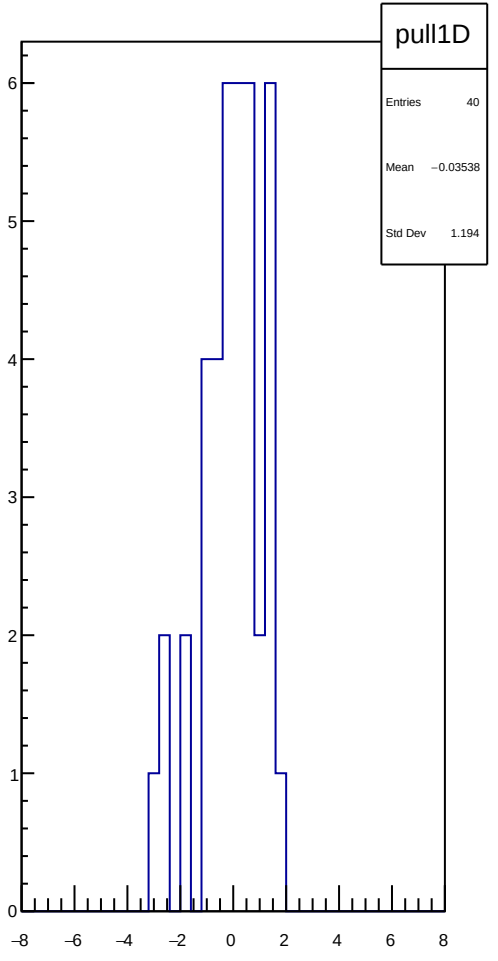

asym_sam_15_avg_correction_rms vs run
χ² / ndf 2248 / 39
p0 476 ± 0.5288
560
540
520
500
480
460
440
420
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

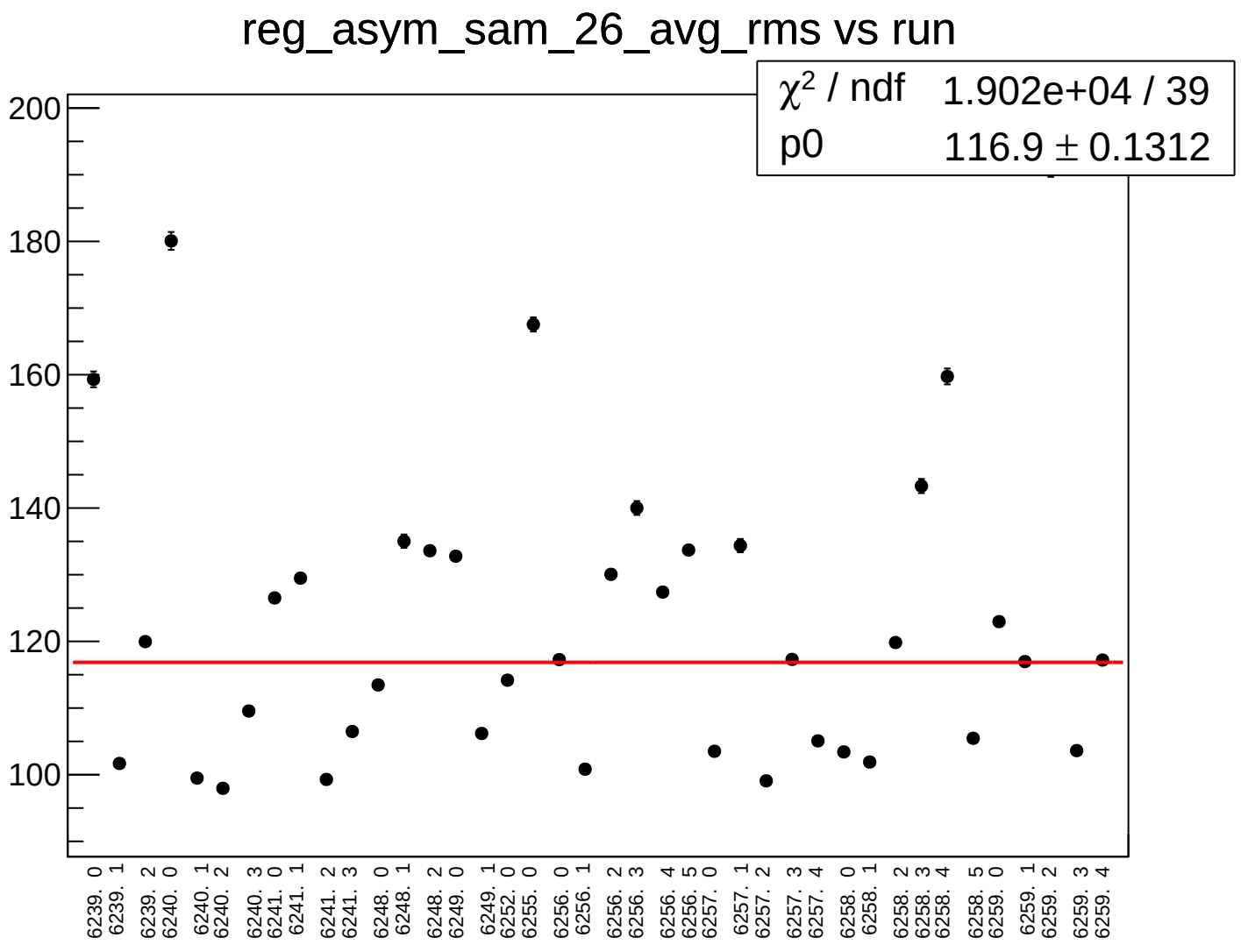

asym_sam_15_avg_mean vs run
χ² / ndf 38.33 / 39
p0 114.7 ± 754.3
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 8.939
Std Dev 9.613
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

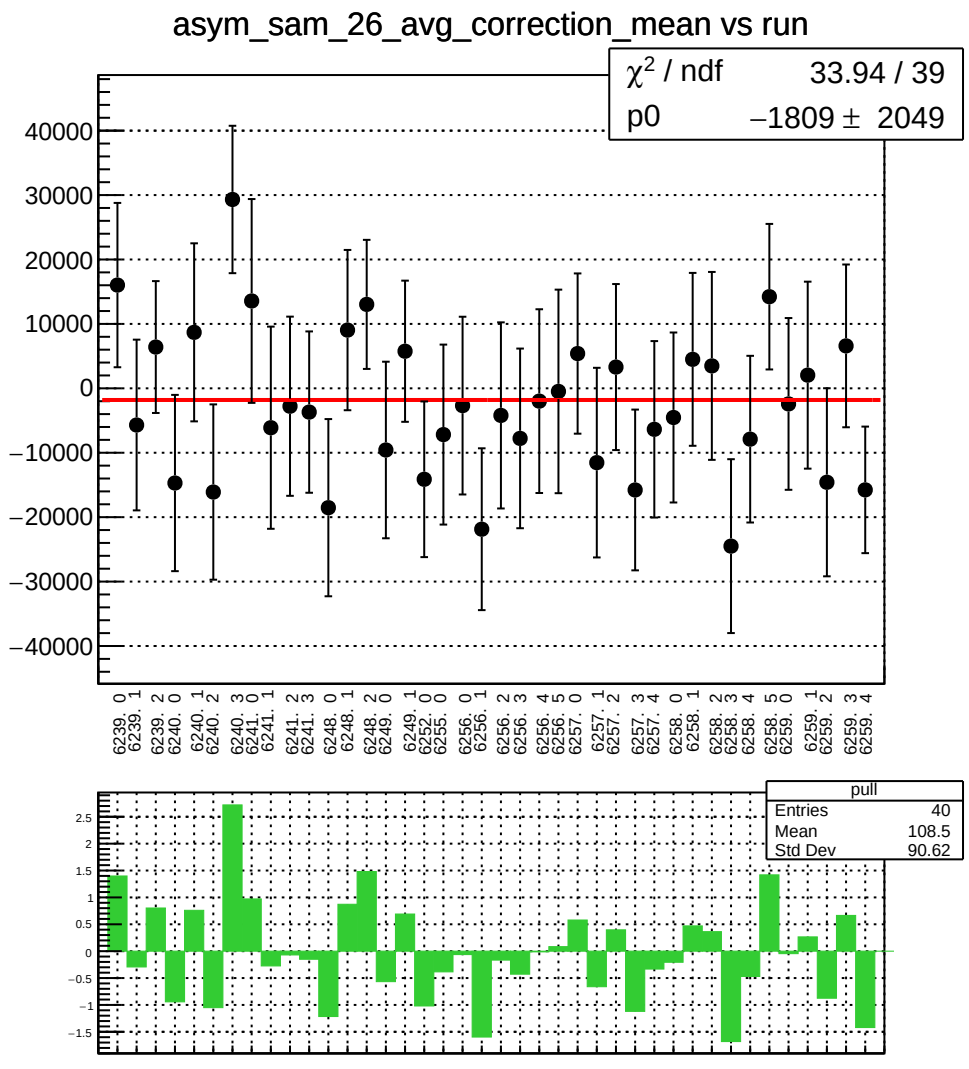

pull1D
Entries 40
Mean 0.03419
Std Dev 0.9783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

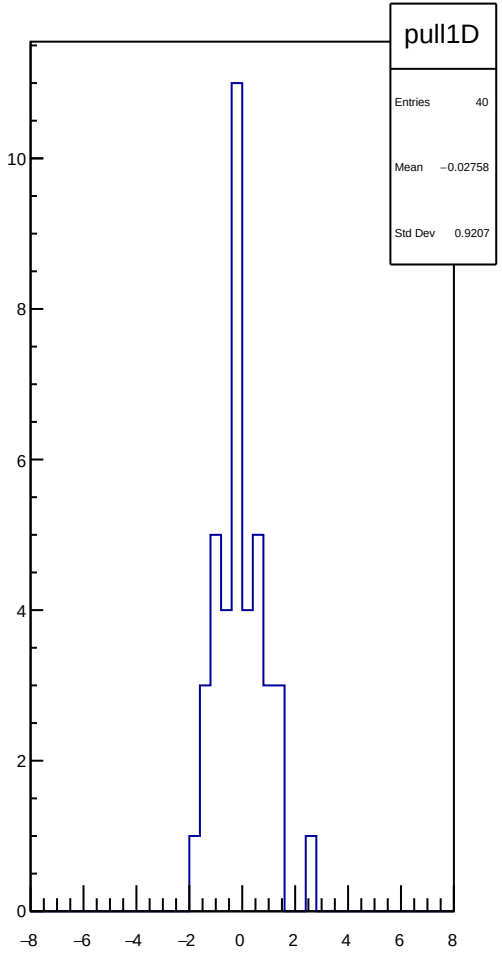

asym_sam_15_avg_rms vs run
χ² / ndf 2200 / 39
p0 480.1 ± 0.5334
560
540
520
500
480
460
440
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

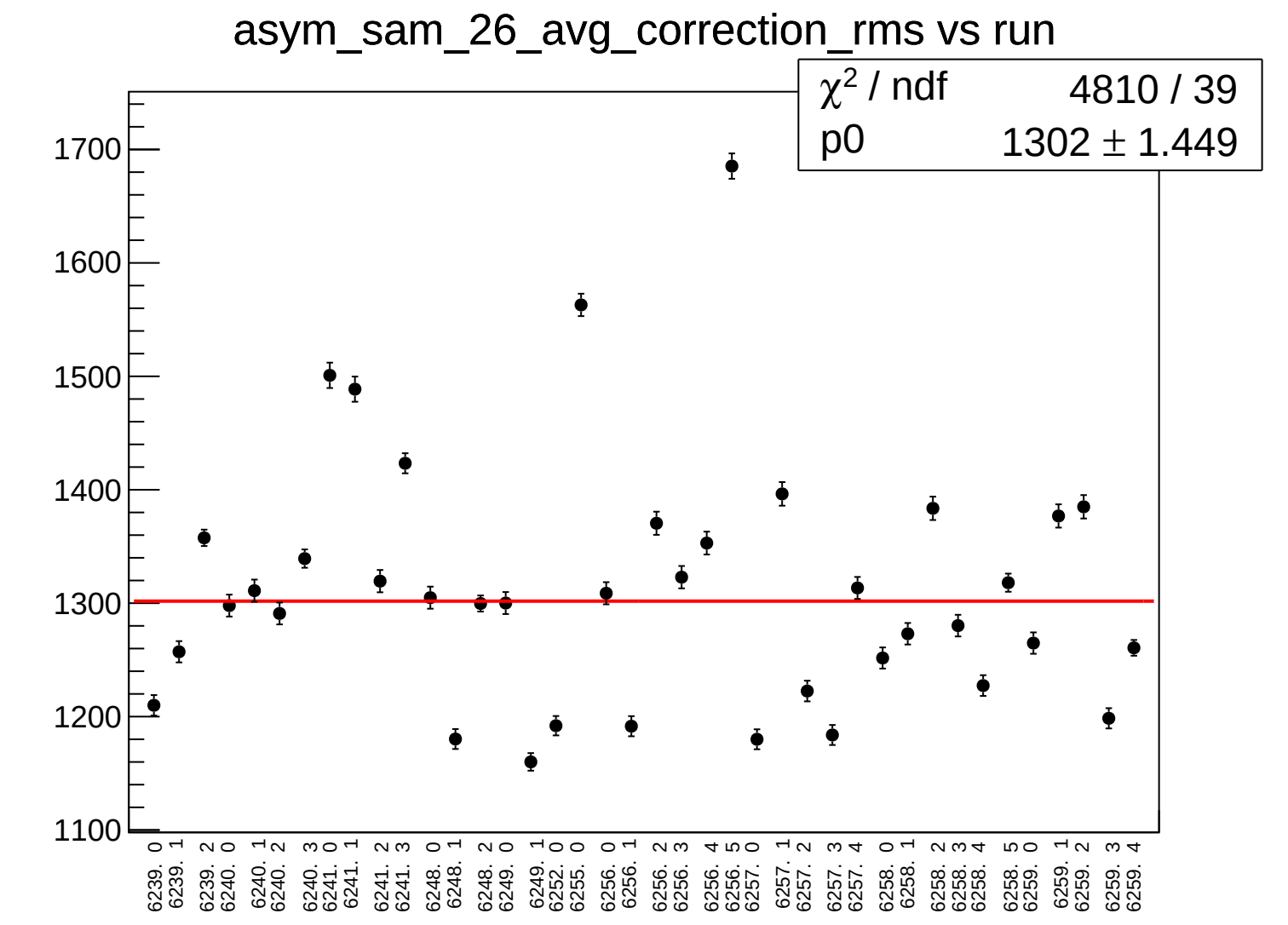

reg_asym_sam_26_avg_mean vs run
χ² / ndf 57.04 / 39
p0 473.5 ± 185.5
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 14.49
Std Dev 17.09
2
1
0
−1
−2
−3

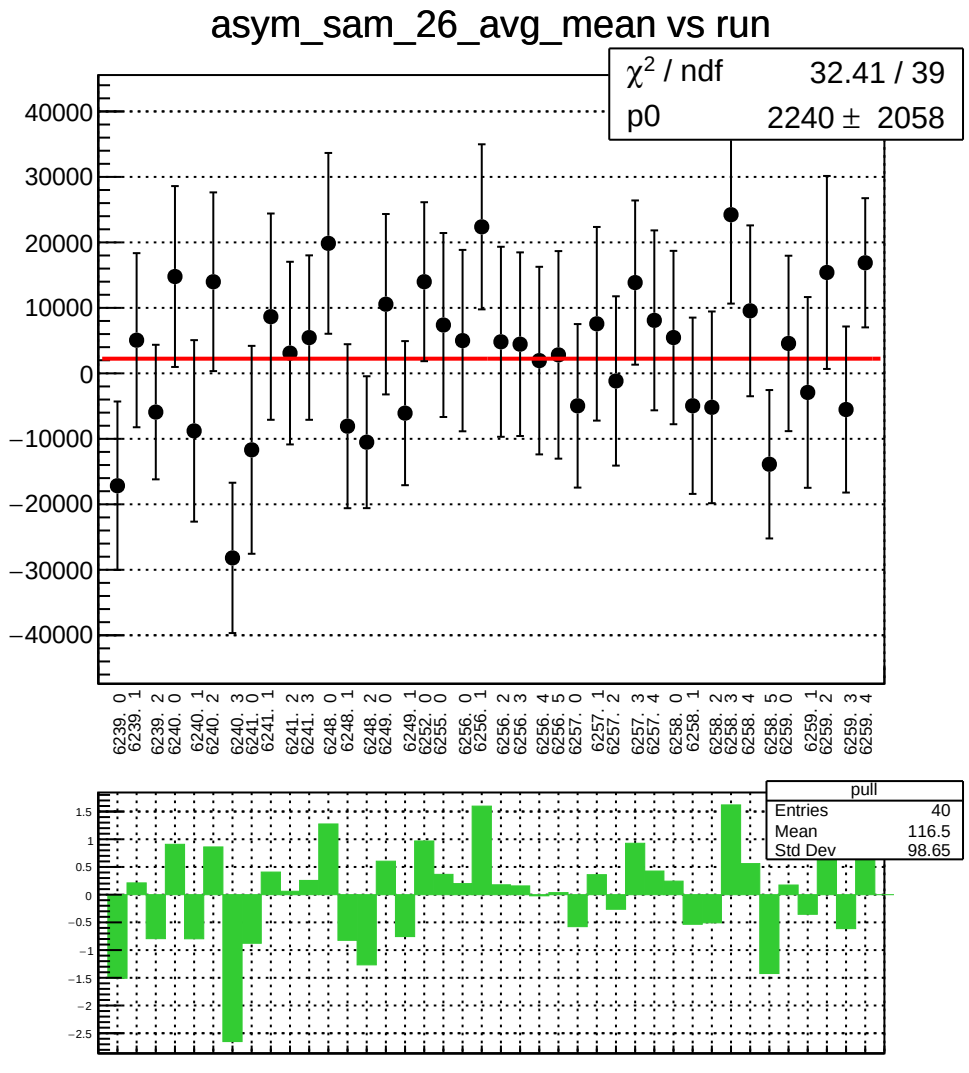

pull1D
Entries 40
Mean −0.03538
Std Dev 1.194
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

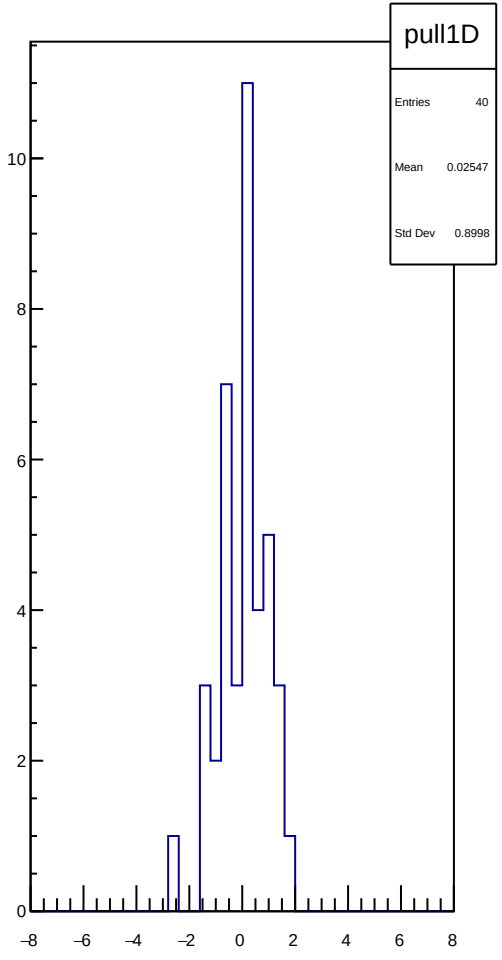

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.902e+04 / 39
p0 116.9 ± 0.1312
200
180
160
140
120
100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

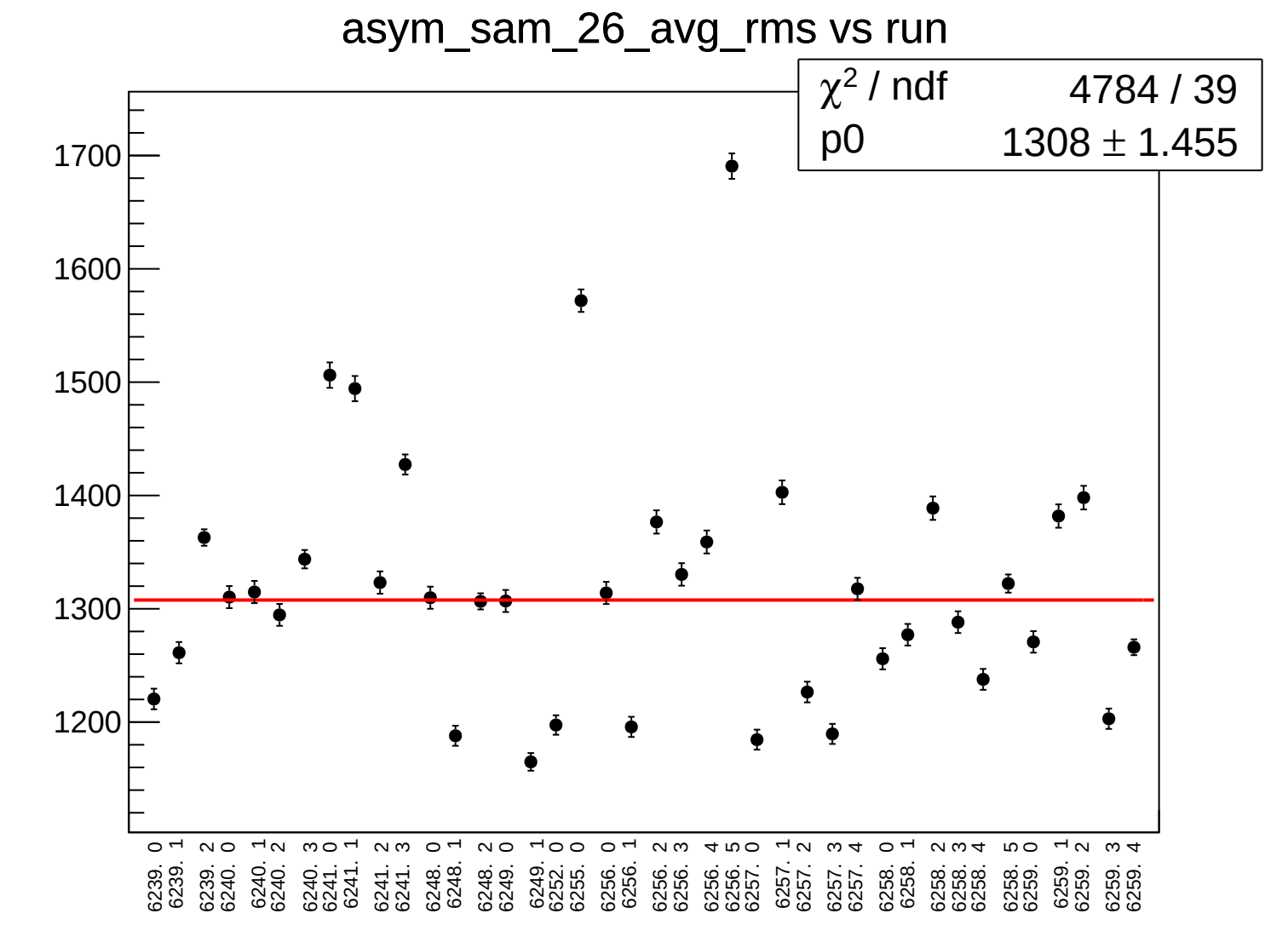

asym_sam_26_avg_correction_mean vs run
χ² / ndf 33.94 / 39
p0 −1809 ± 2049
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 108.5
Std Dev 90.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

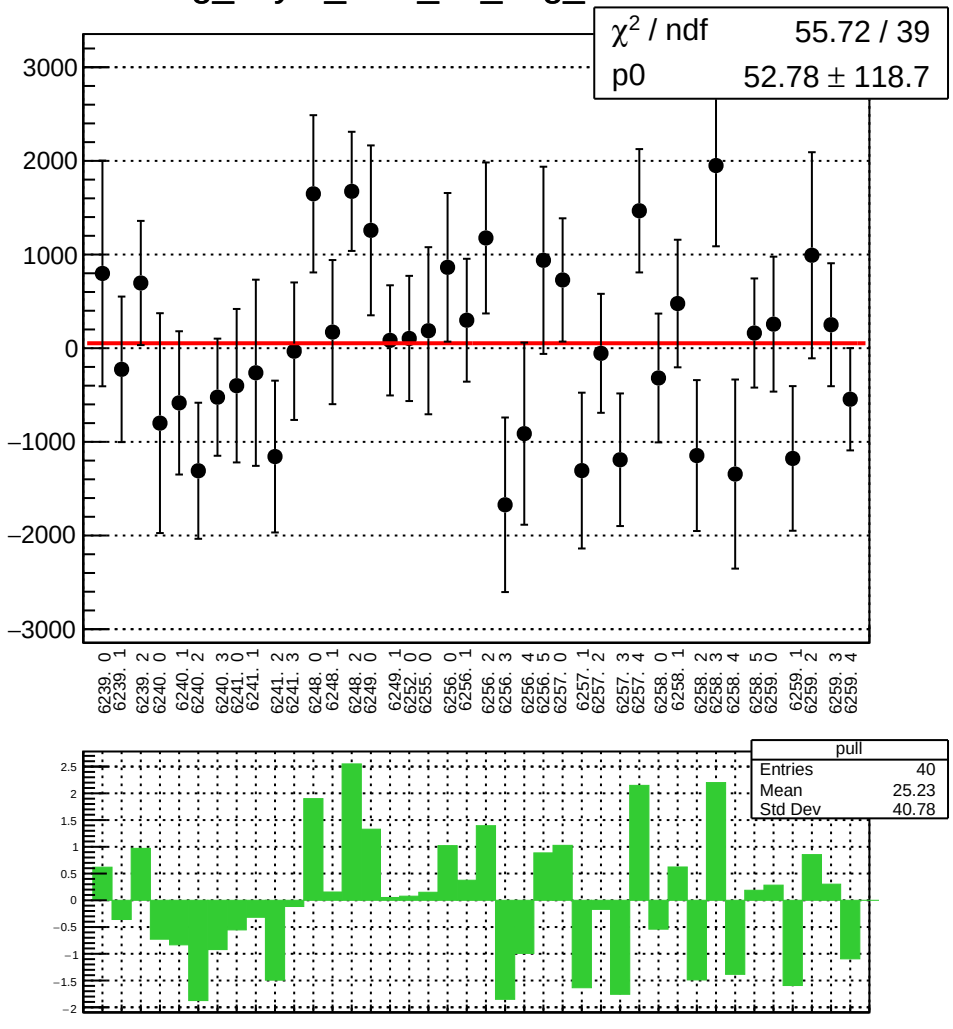

pull1D
Entries 40
Mean −0.02758
Std Dev 0.9207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

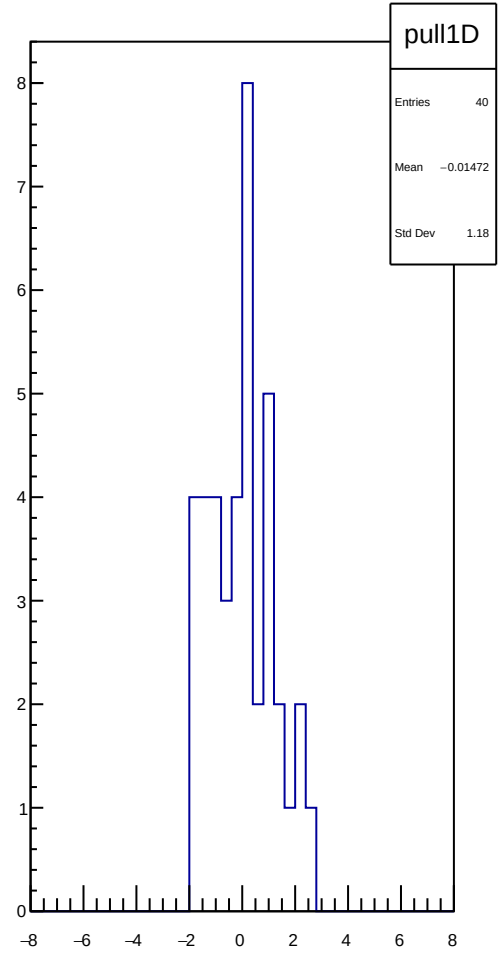

asym_sam_26_avg_correction_rms vs run
χ² / ndf 4810 / 39
p0 1302 ± 1.449
1700
1600
1500
1400
1300
1200
1100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

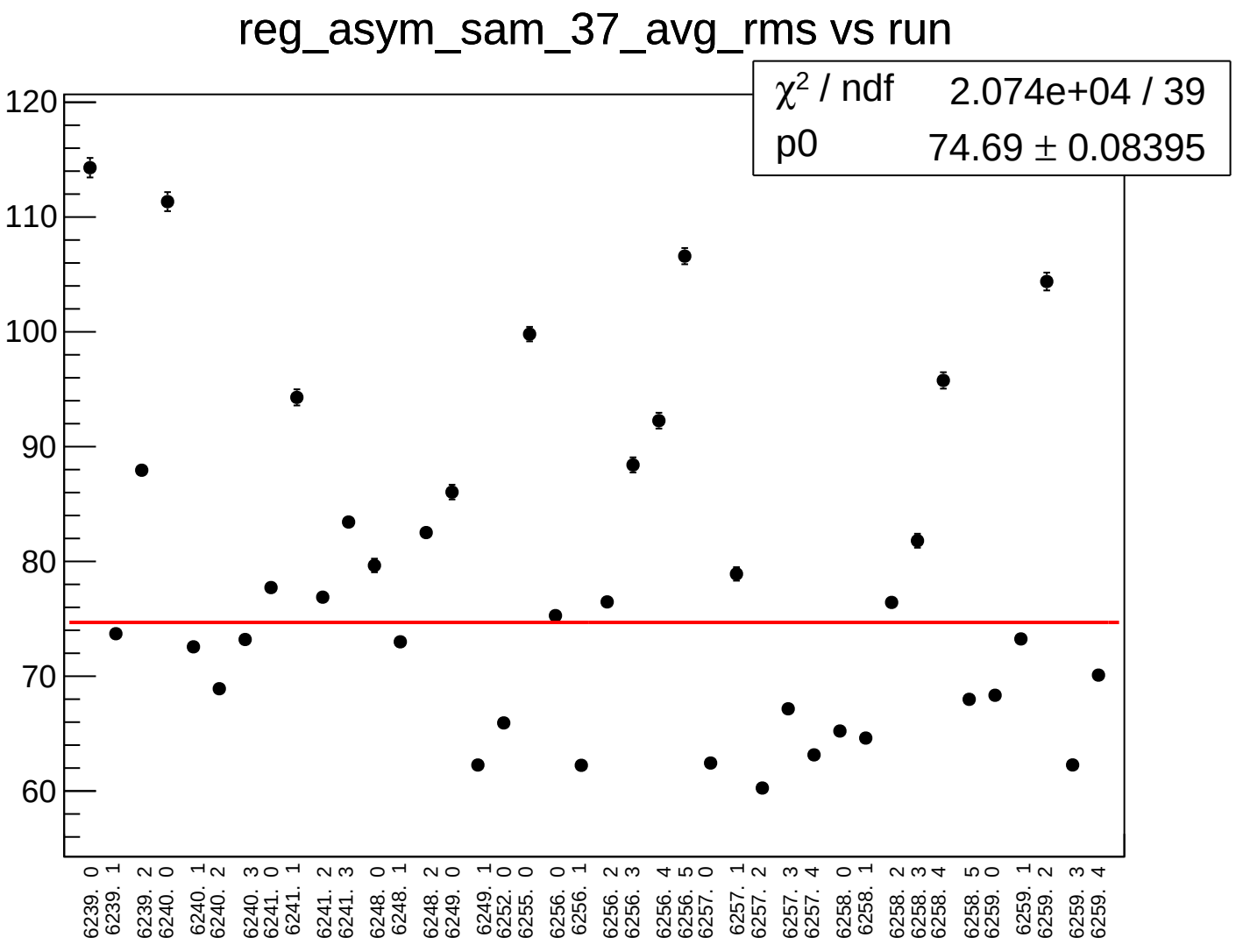

asym_sam_26_avg_mean vs run
χ² / ndf 32.41 / 39
p0 2240 ± 2058
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 116.5
Std Dev 98.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

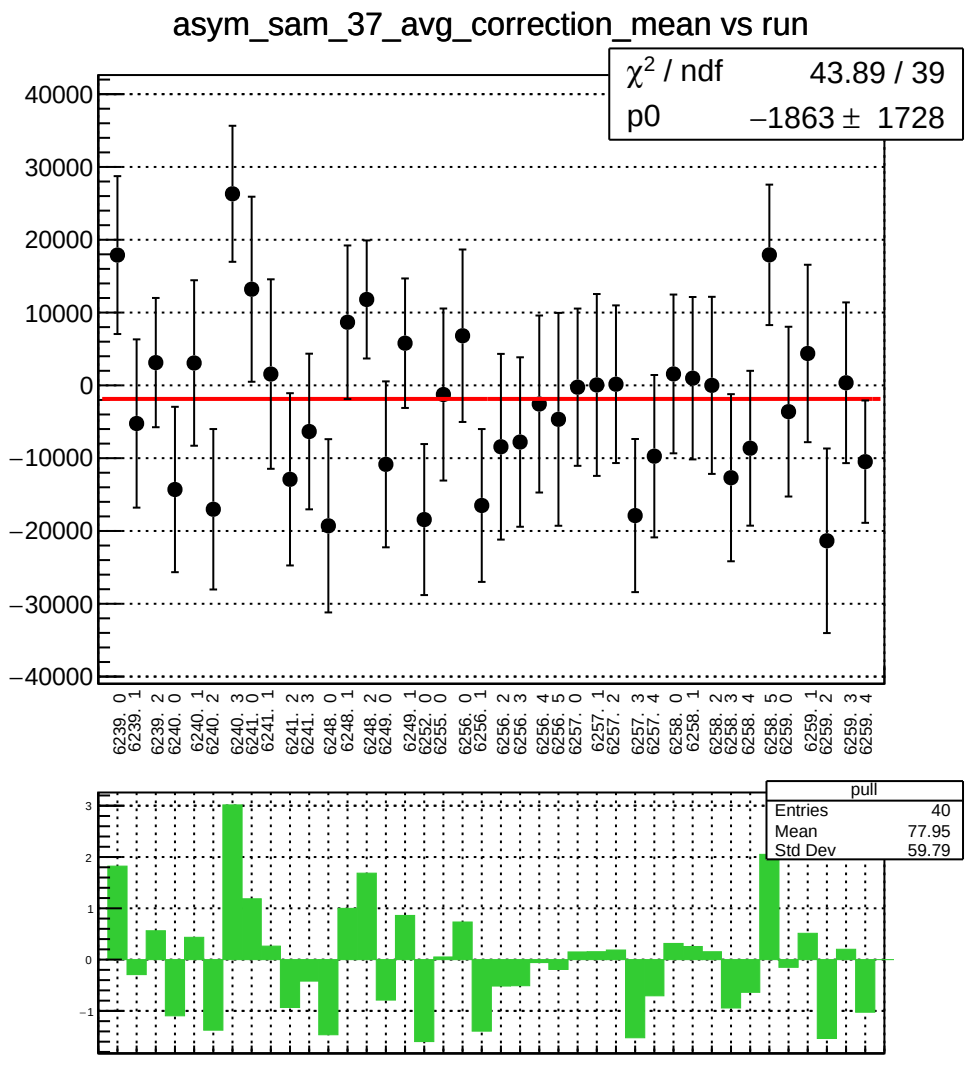

pull1D
Entries 40
Mean 0.02547
Std Dev 0.8998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

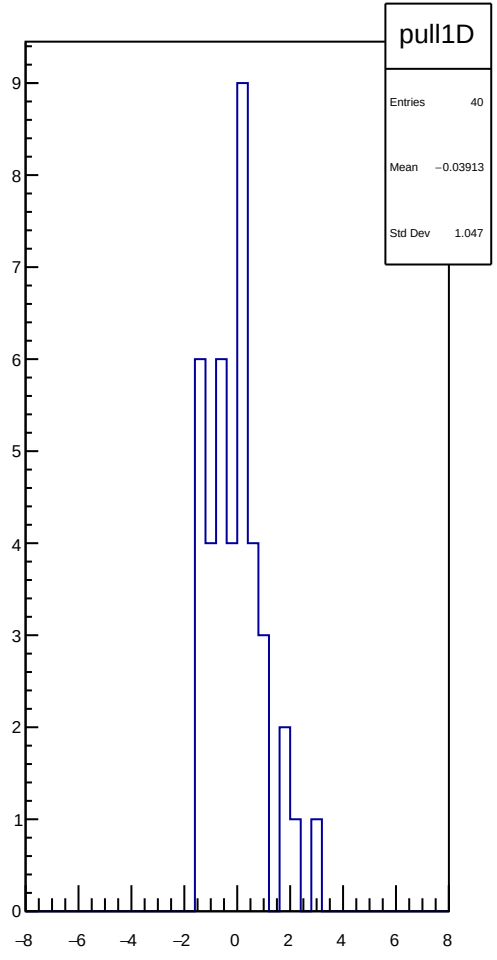

asym_sam_26_avg_rms vs run
χ² / ndf 4784 / 39
p0 1308 ± 1.455
1700
1600
1500
1400
1300
1200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

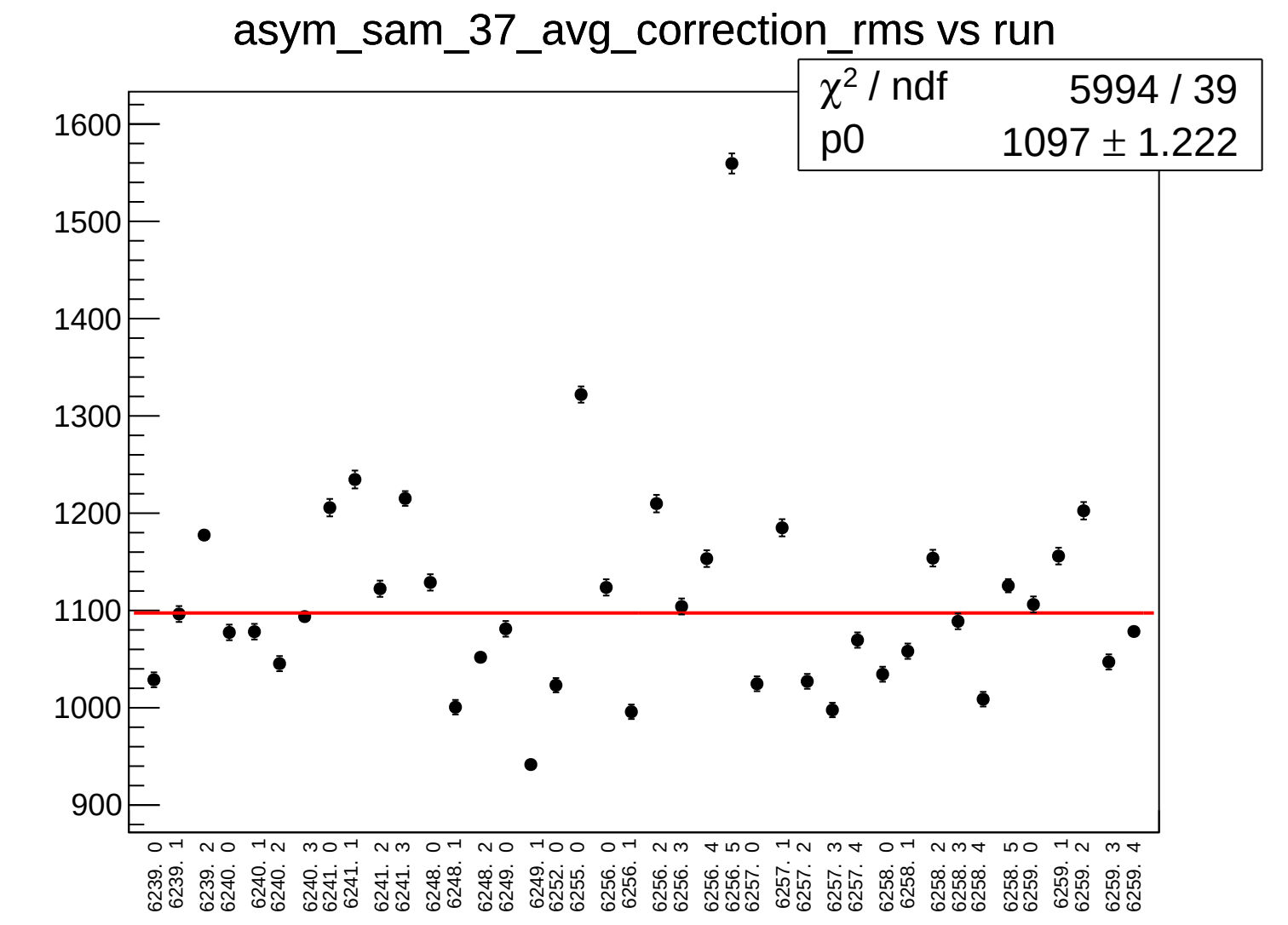

reg_asym_sam_37_avg_mean vs run
χ² / ndf 55.72 / 39
p0 52.78 ± 118.7
pull
Entries 40
Mean 25.23
Std Dev 40.78

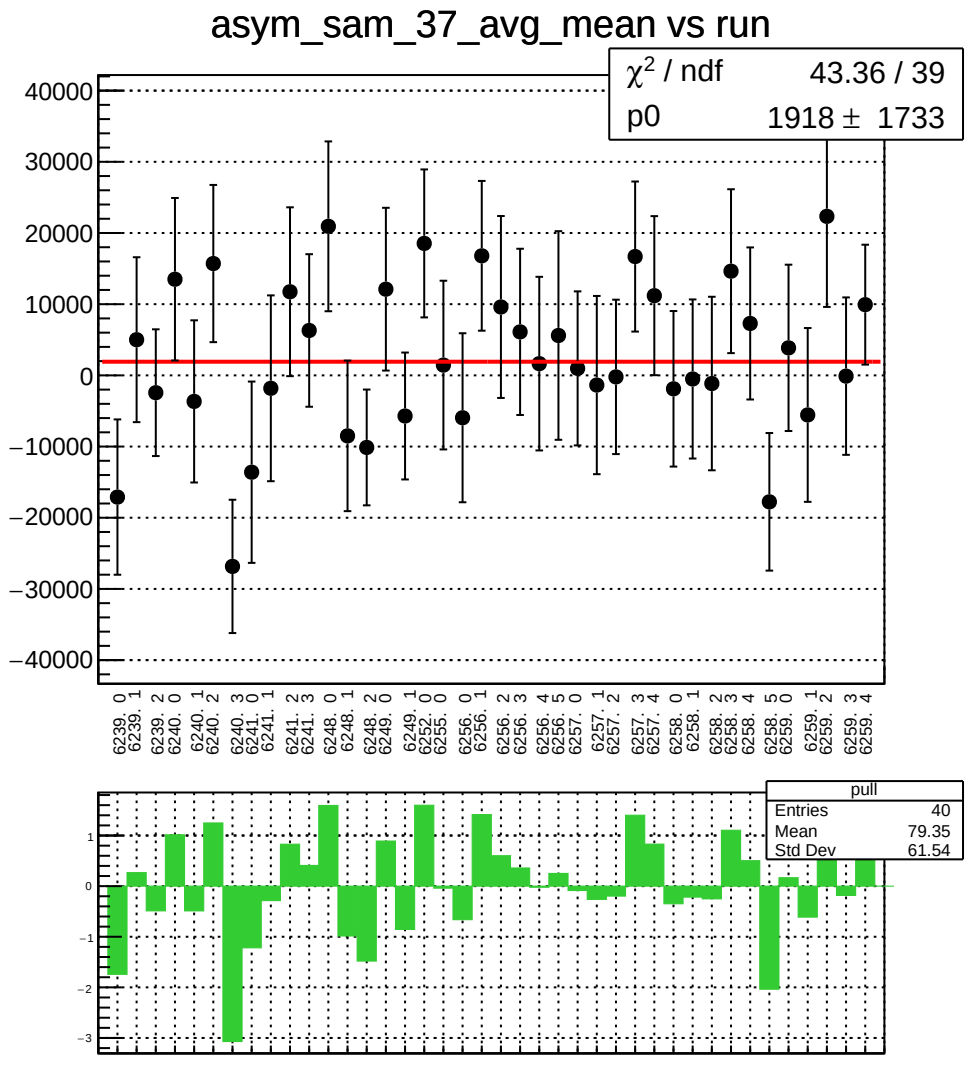

pull1D
Entries 40
Mean −0.01472
Std Dev 1.18

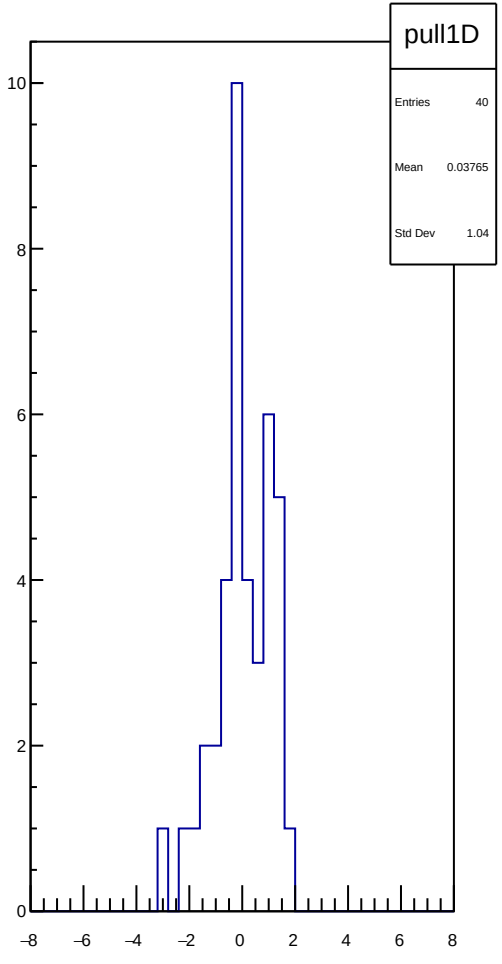

reg_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 2.074e+04 / 39
p0 74.69 ± 0.08395
120
110
100
90
80
70
60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

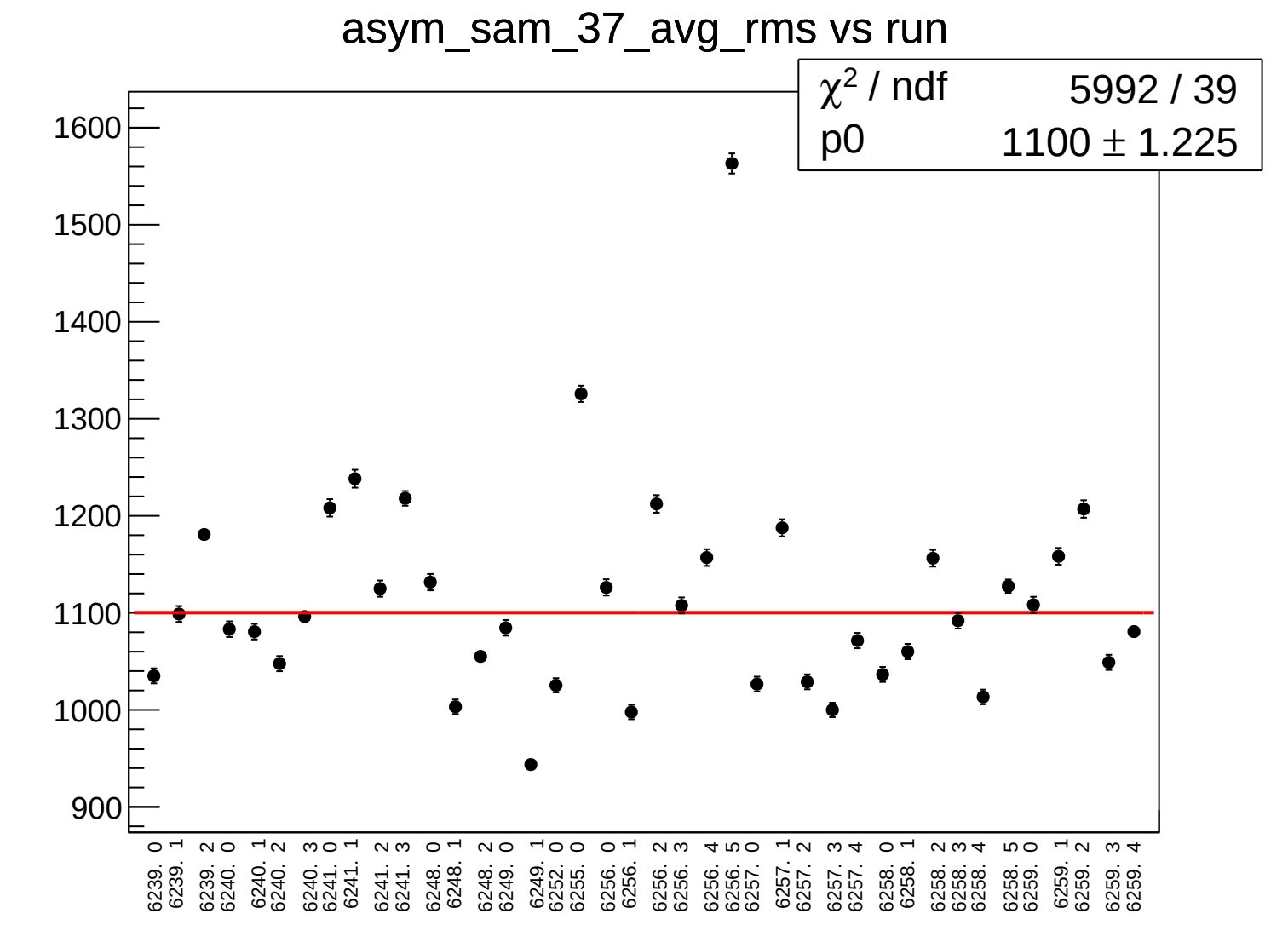

asym_sam_37_avg_correction_mean vs run
χ² / ndf 43.89 / 39
p0 −1863 ± 1728
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 77.95
Std Dev 59.79
3
2
1
0
−1

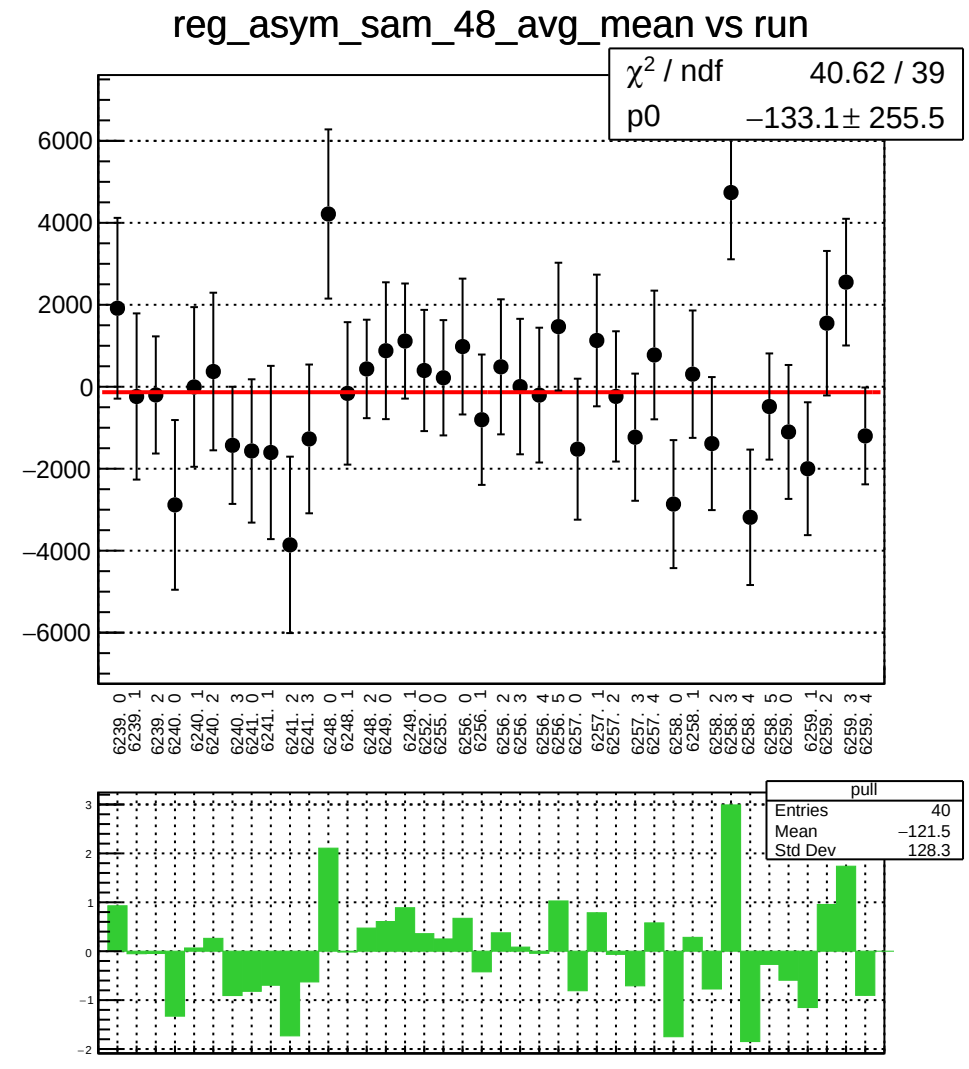

pull1D
Entries 40
Mean −0.03913
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

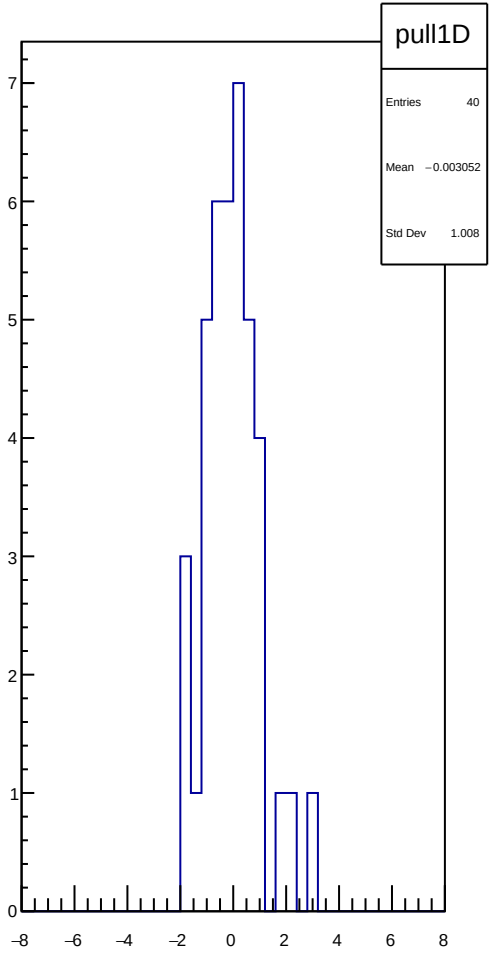

asym_sam_37_avg_correction_rms vs run
χ² / ndf 5994 / 39
p0 1097 ± 1.222
1600
1500
1400
1300
1200
1100
1000
900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

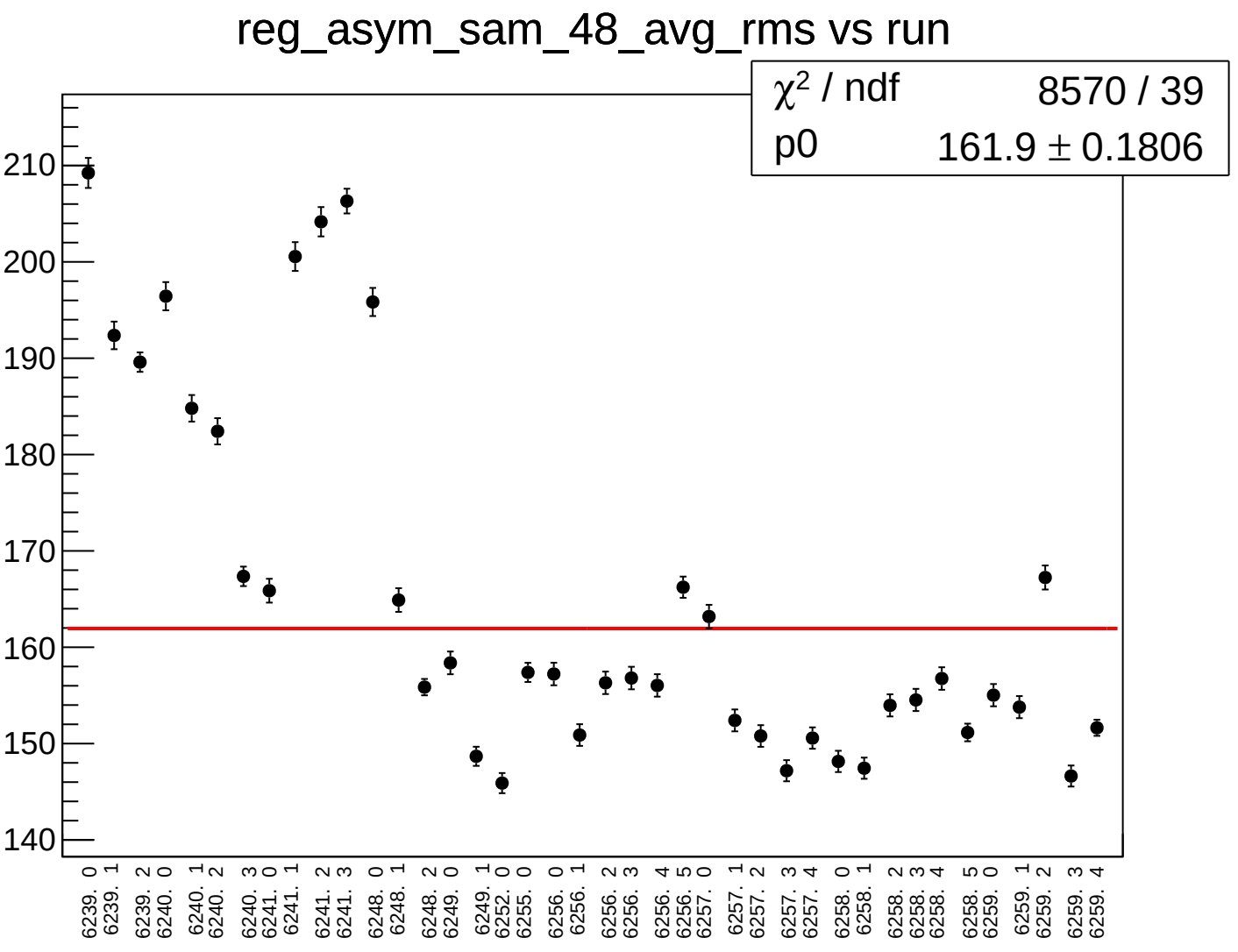

asym_sam_37_avg_mean vs run
χ² / ndf 43.36 / 39
p0 1918 ± 1733
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 79.35
Std Dev 61.54
1
0
−1
−2
−3

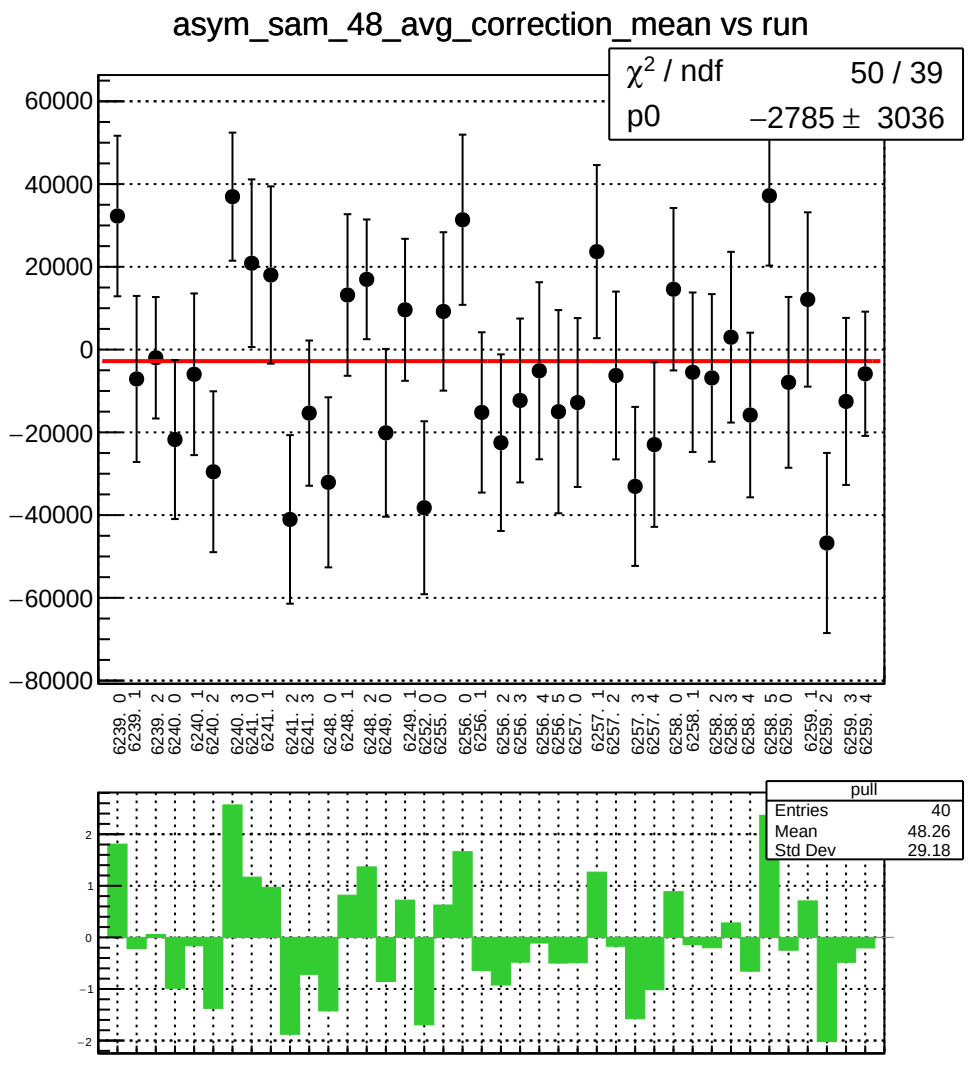

pull1D
Entries 40
Mean 0.03765
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

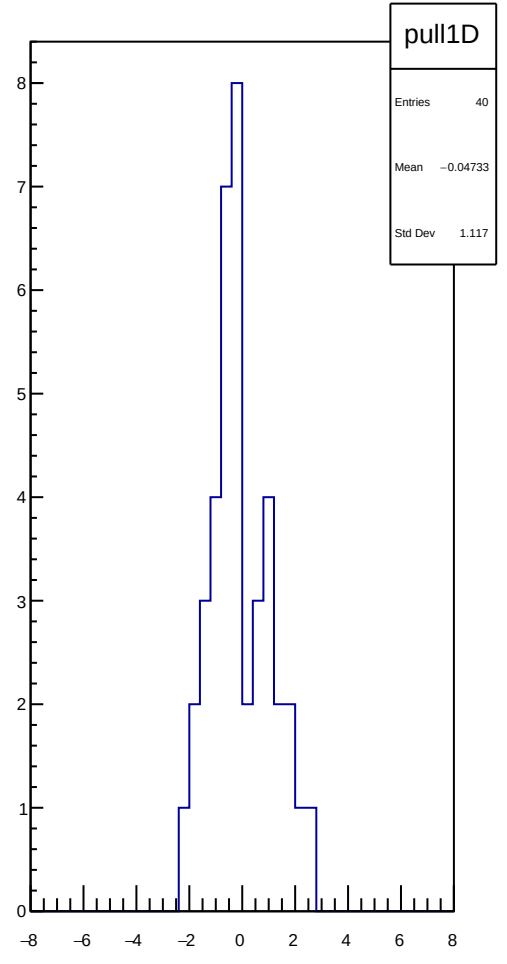

asym_sam_37_avg_rms vs run
χ² / ndf 5992 / 39
p0 1100 ± 1.225
1600
1500
1400
1300
1200
1100
1000
900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

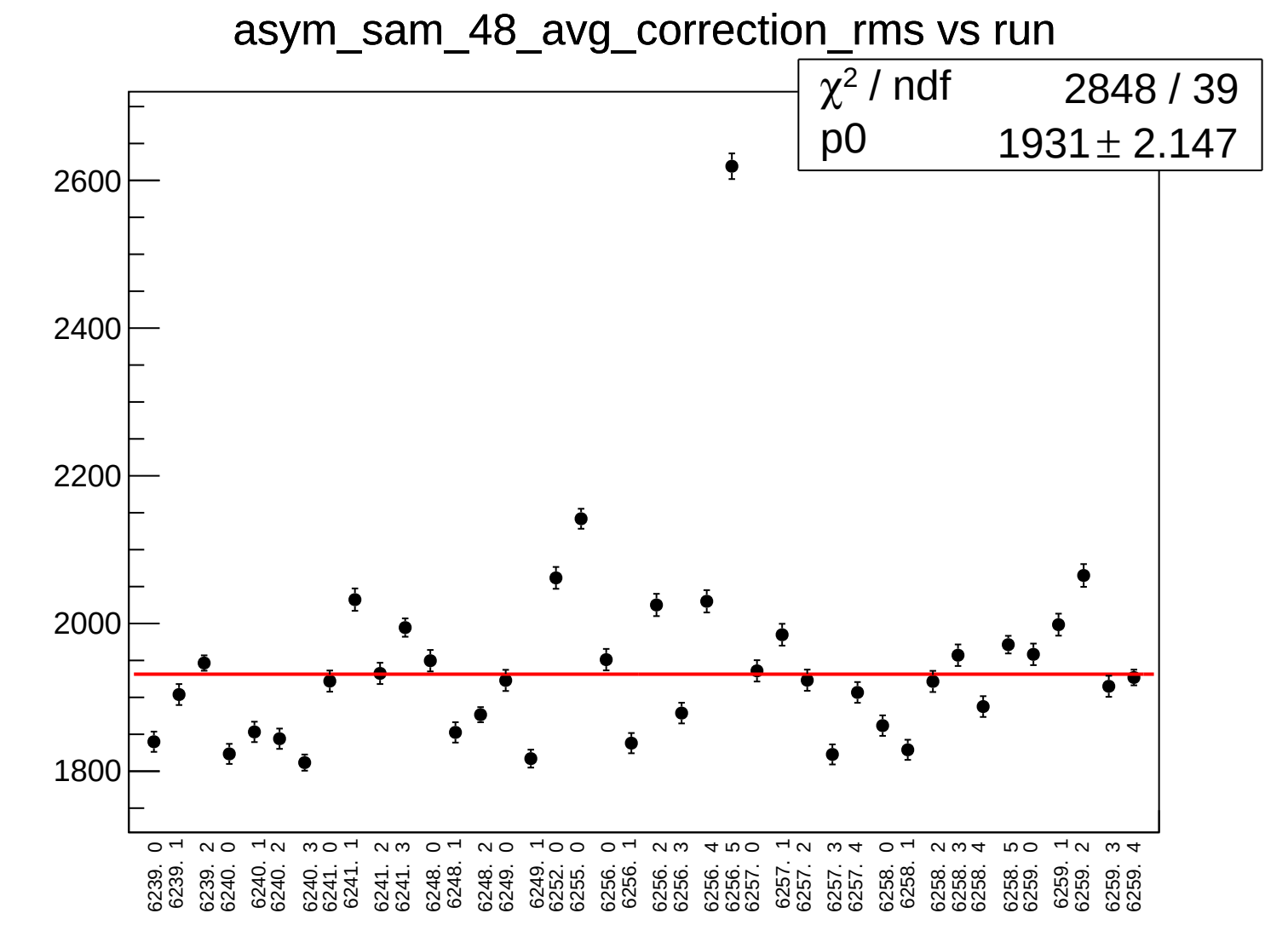

reg_asym_sam_48_avg_mean vs run
χ² / ndf 40.62 / 39
p0 −133.1± 255.5
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −121.5
Std Dev 128.3
3
2
1
0
−1
−2

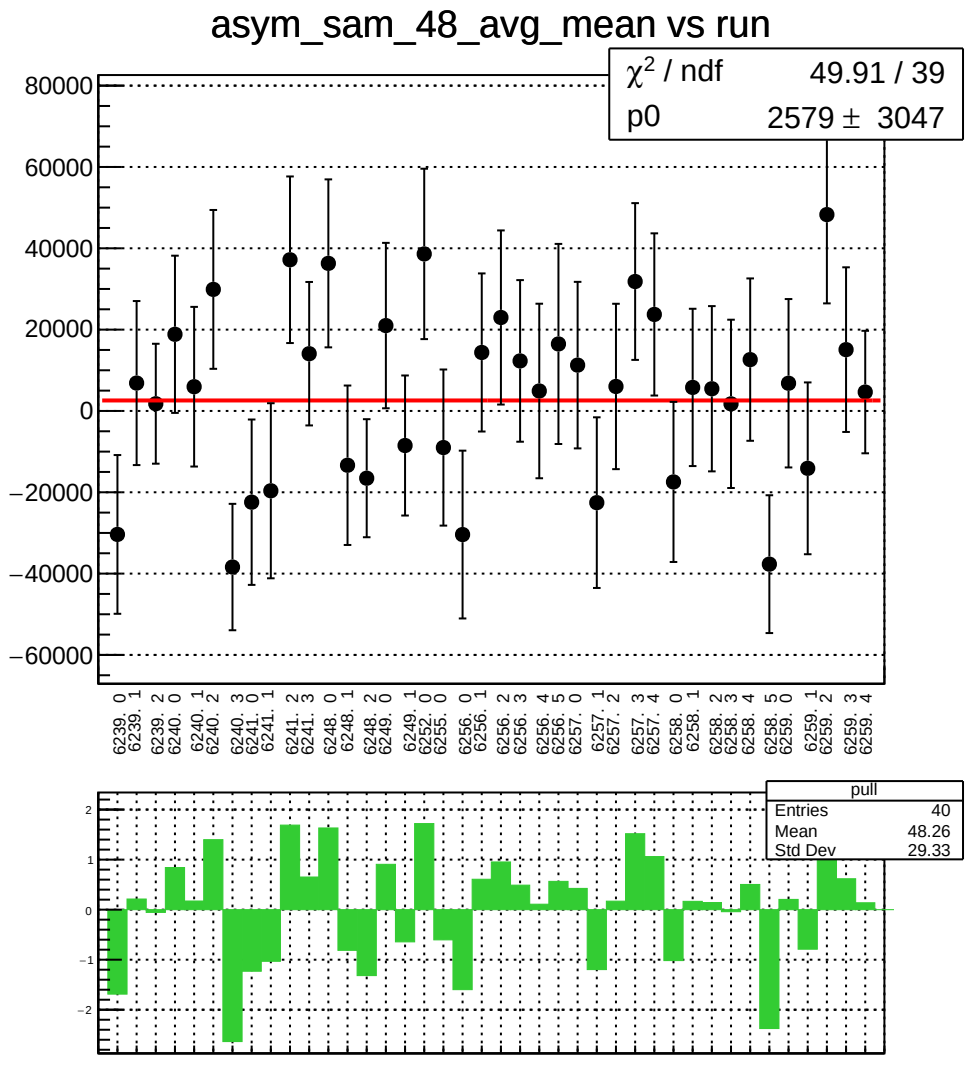

pull1D
Entries 40
Mean −0.003052
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

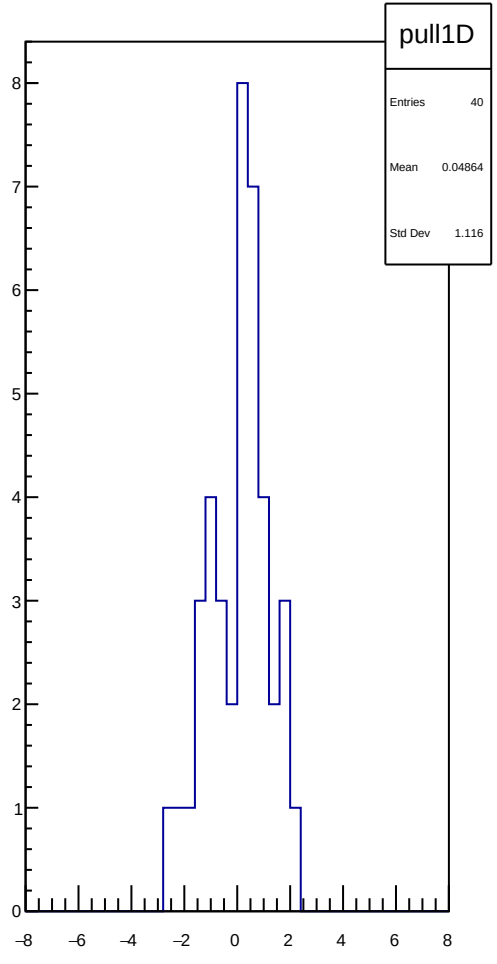

reg_asym_sam_48_avg_rms vs run
χ² / ndf 8570 / 39
p0 161.9 ± 0.1806
210
200
190
180
170
160
150
140
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

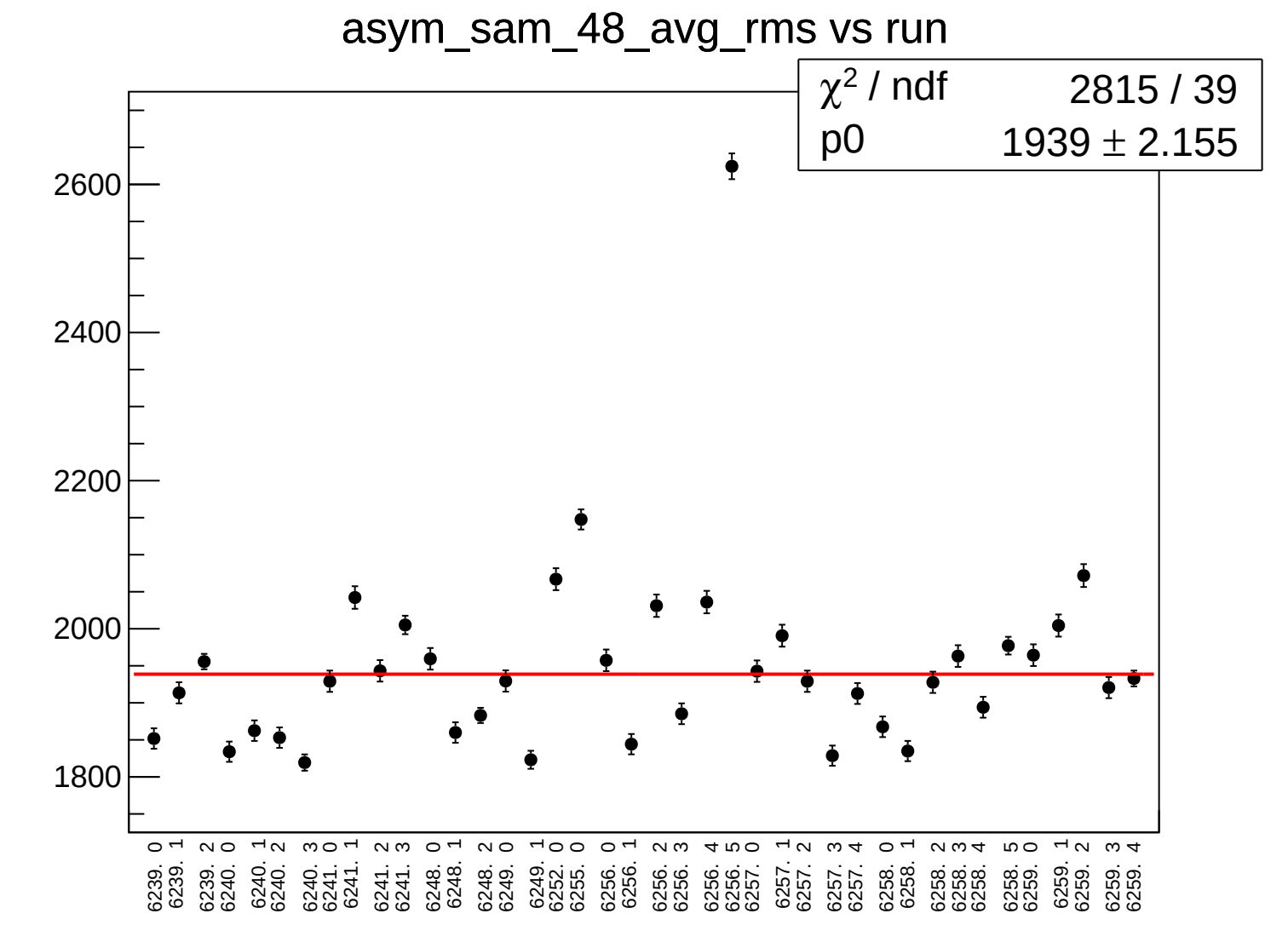

asym_sam_48_avg_correction_mean vs run
χ² / ndf 50 / 39
p0 −2785 ± 3036
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 48.26
Std Dev 29.18
2
1
0
−1
−2

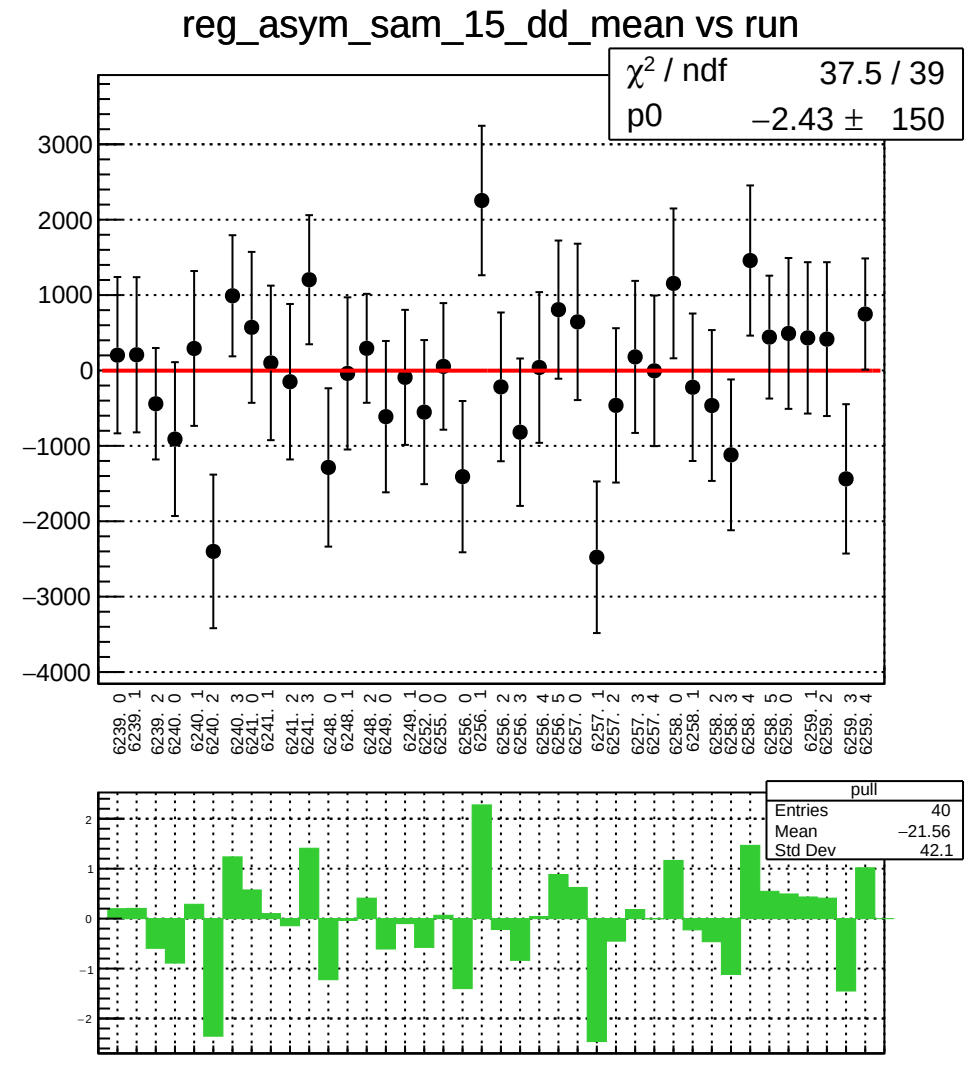

pull1D
Entries 40
Mean −0.04733
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

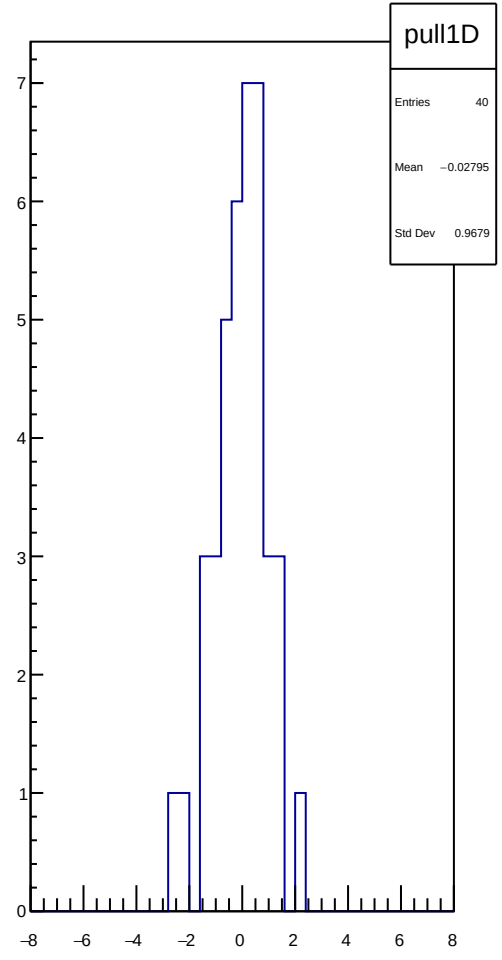

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2848 / 39
p0 1931 ± 2.147
2600
2400
2200
2000
1800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

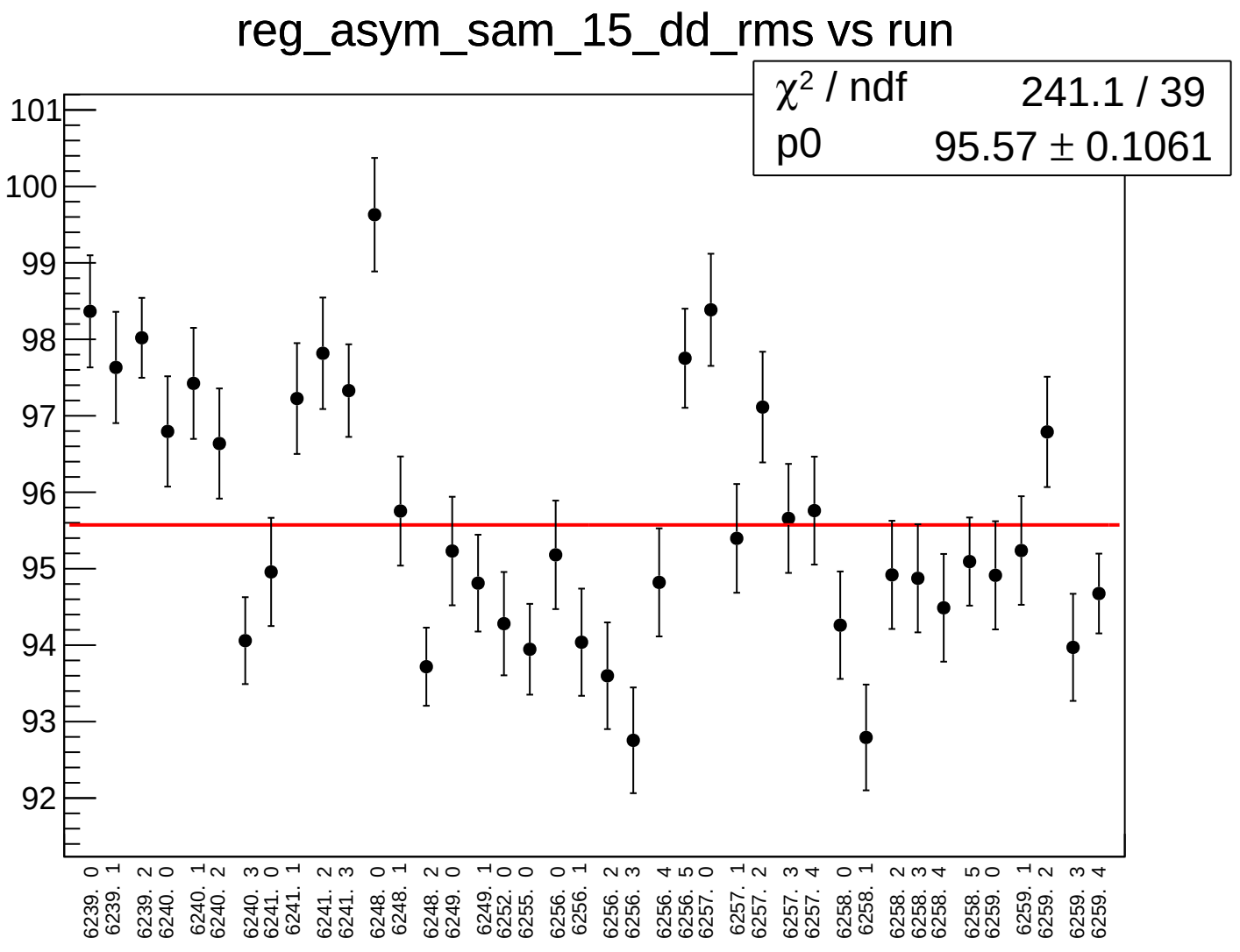

asym_sam_48_avg_mean vs run
χ² / ndf 49.91 / 39
p0 2579 ± 3047
pull
Entries 40
Mean 48.26
Std Dev 29.33

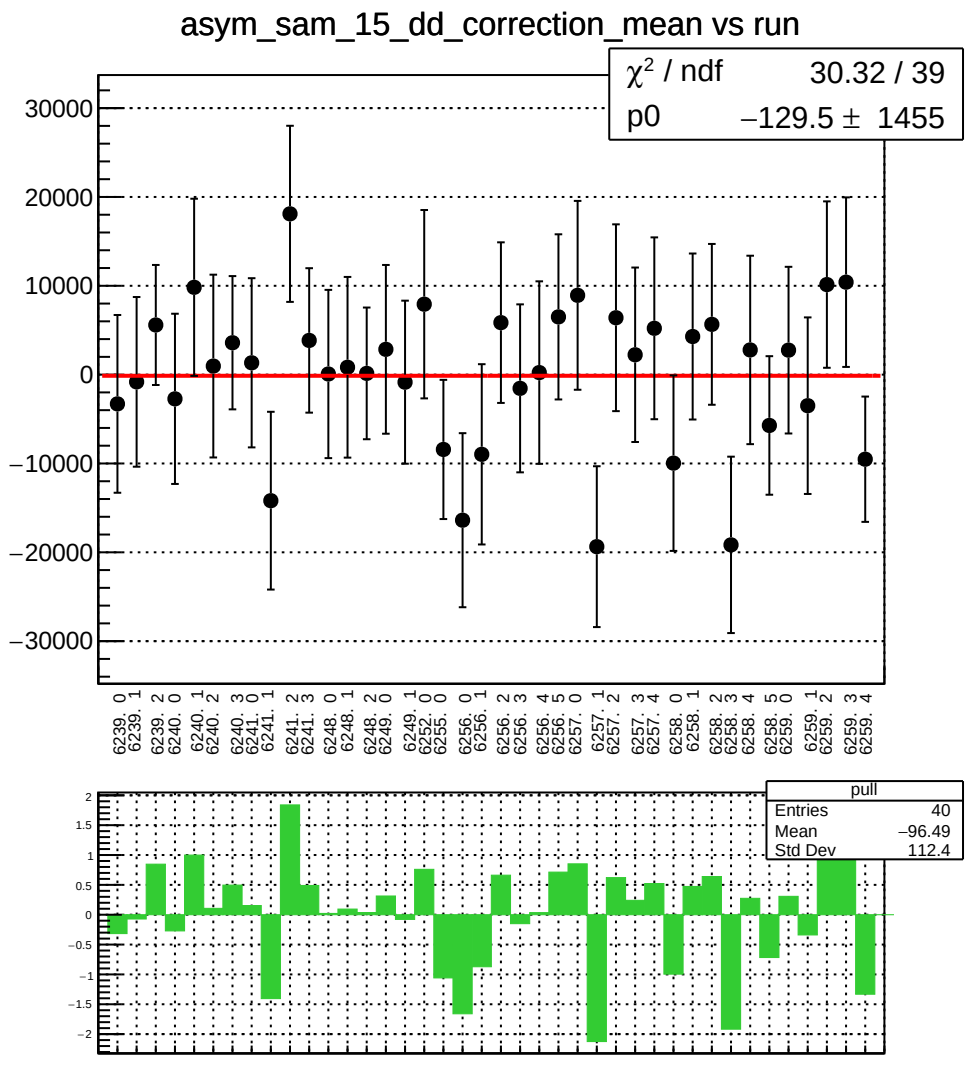

pull1D
Entries 40
Mean 0.04864
Std Dev 1.116

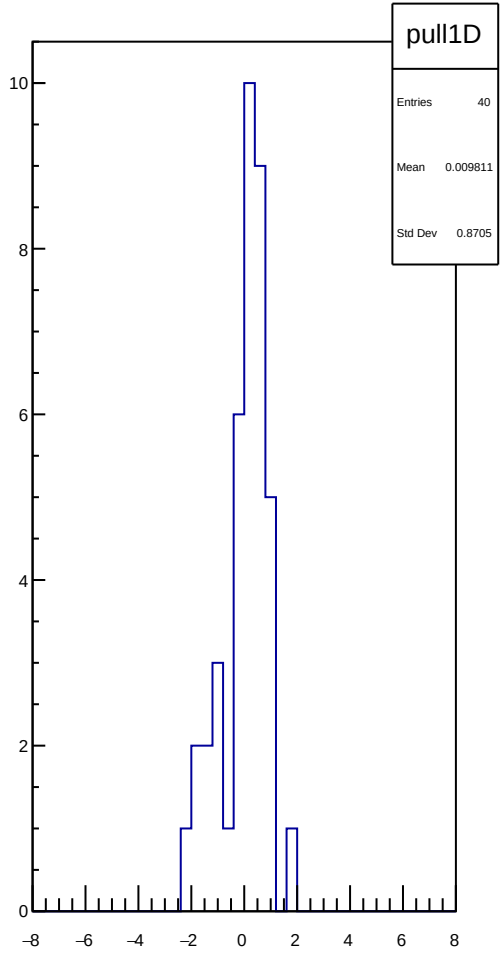

asym_sam_48_avg_rms vs run
χ² / ndf 2815 / 39
p0 1939 ± 2.155
2600
2400
2200
2000
1800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

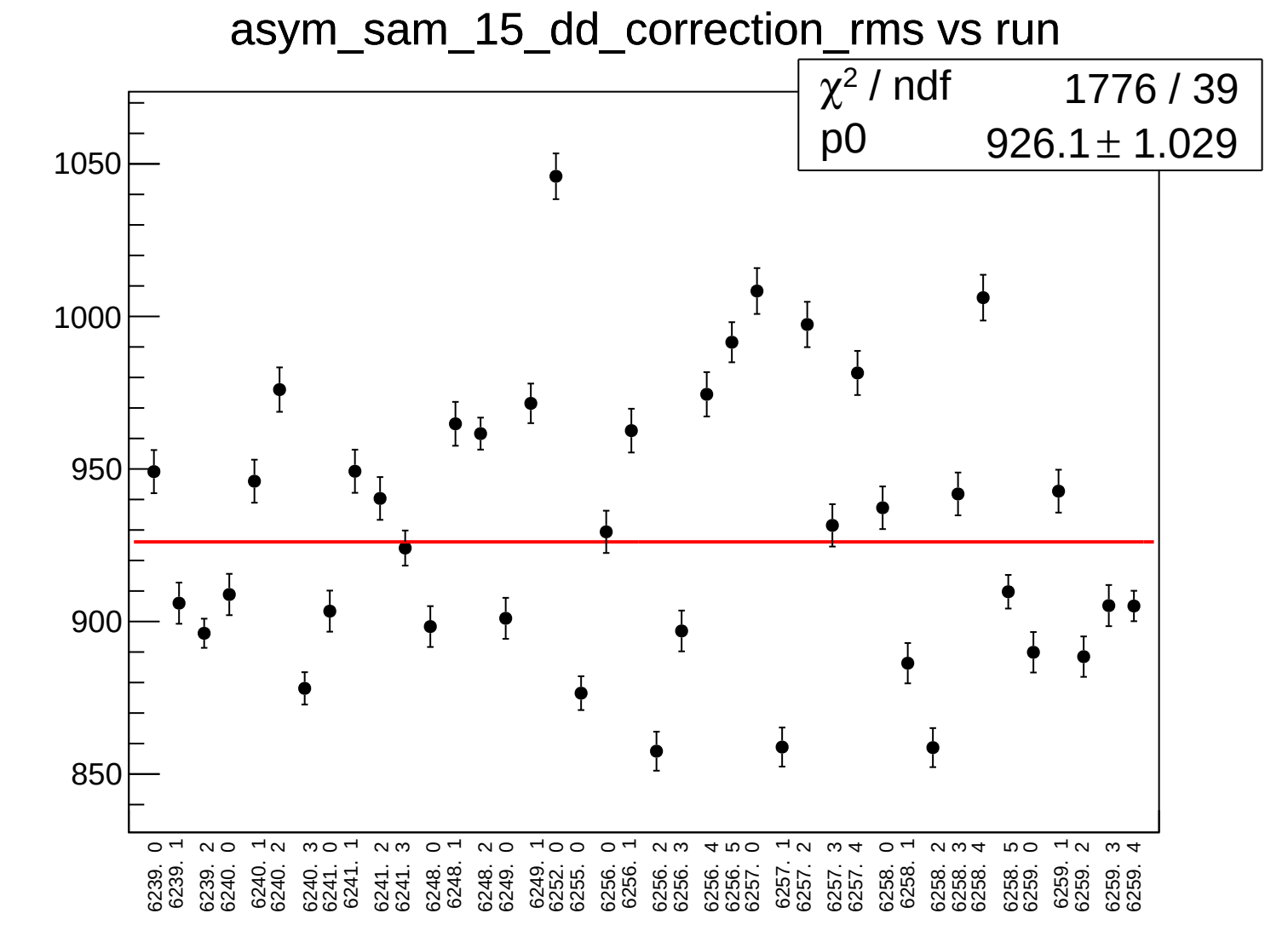

reg_asym_sam_15_dd_mean vs run
χ² / ndf 37.5 / 39
p0 −2.43 ± 150
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −21.56
Std Dev 42.1
2
1
0
−1
−2

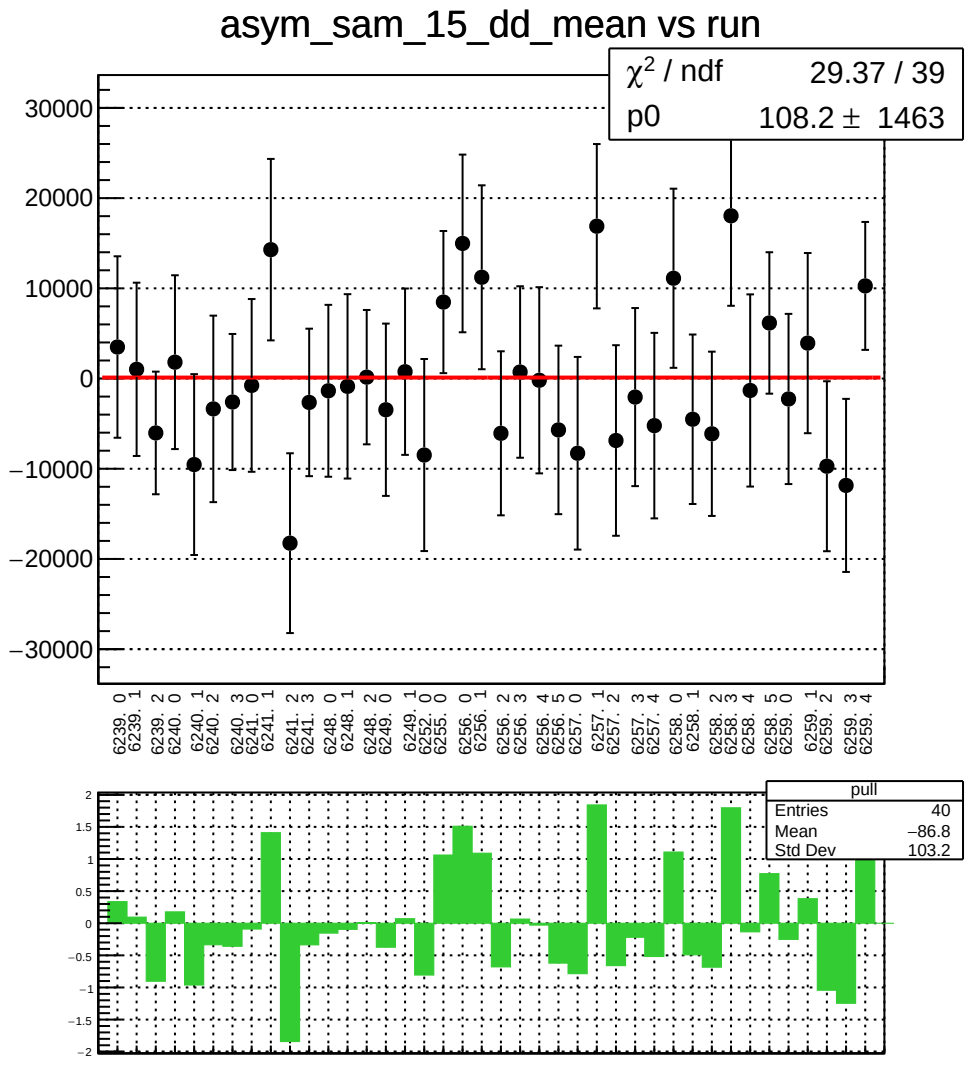

pull1D
Entries 40
Mean −0.02795
Std Dev 0.9679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

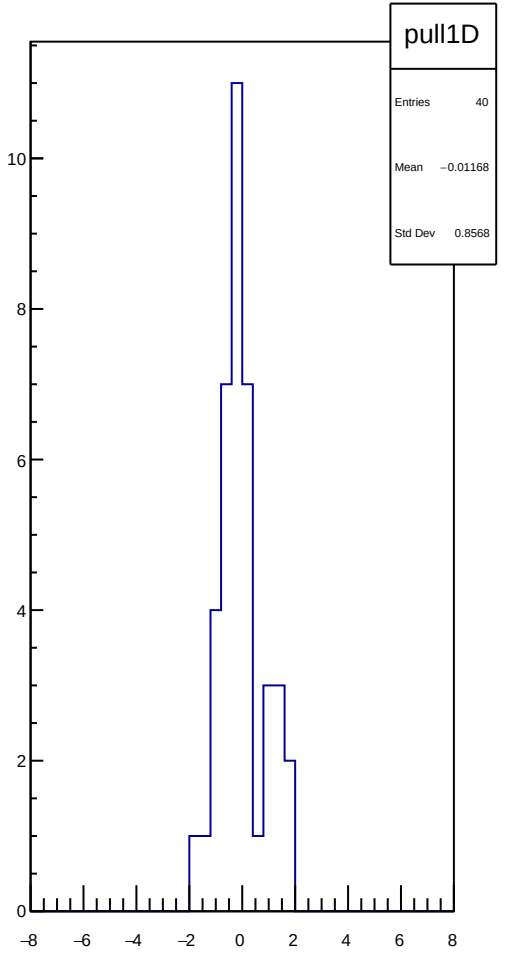

reg_asym_sam_15_dd_rms vs run
χ² / ndf 241.1 / 39
p0 95.57 ± 0.1061
101
100
99
98
97
96
95
94
93
92
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

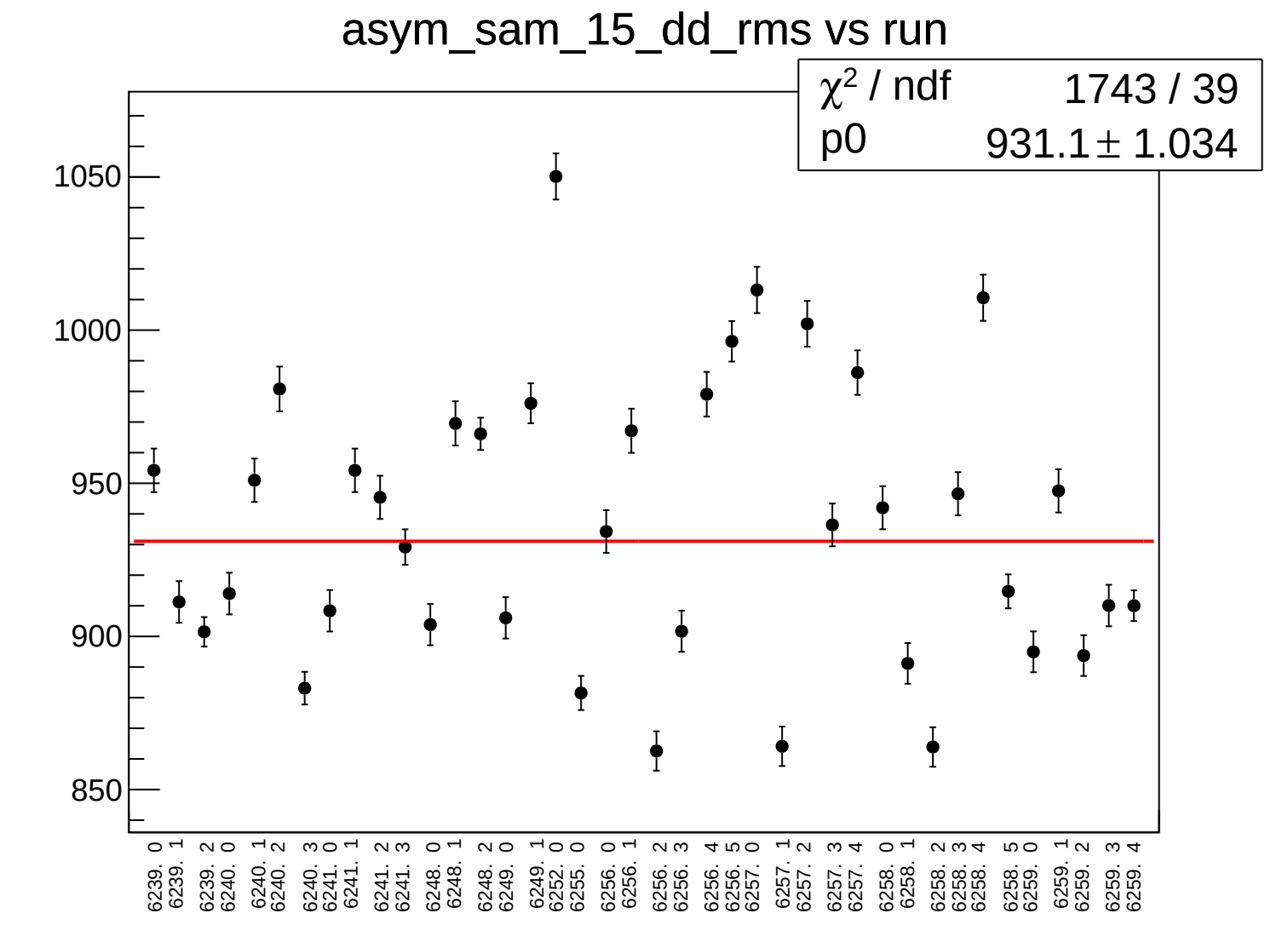

asym_sam_15_dd_correction_mean vs run
χ² / ndf 30.32 / 39
p0 −129.5 ± 1455
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −96.49
Std Dev 112.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

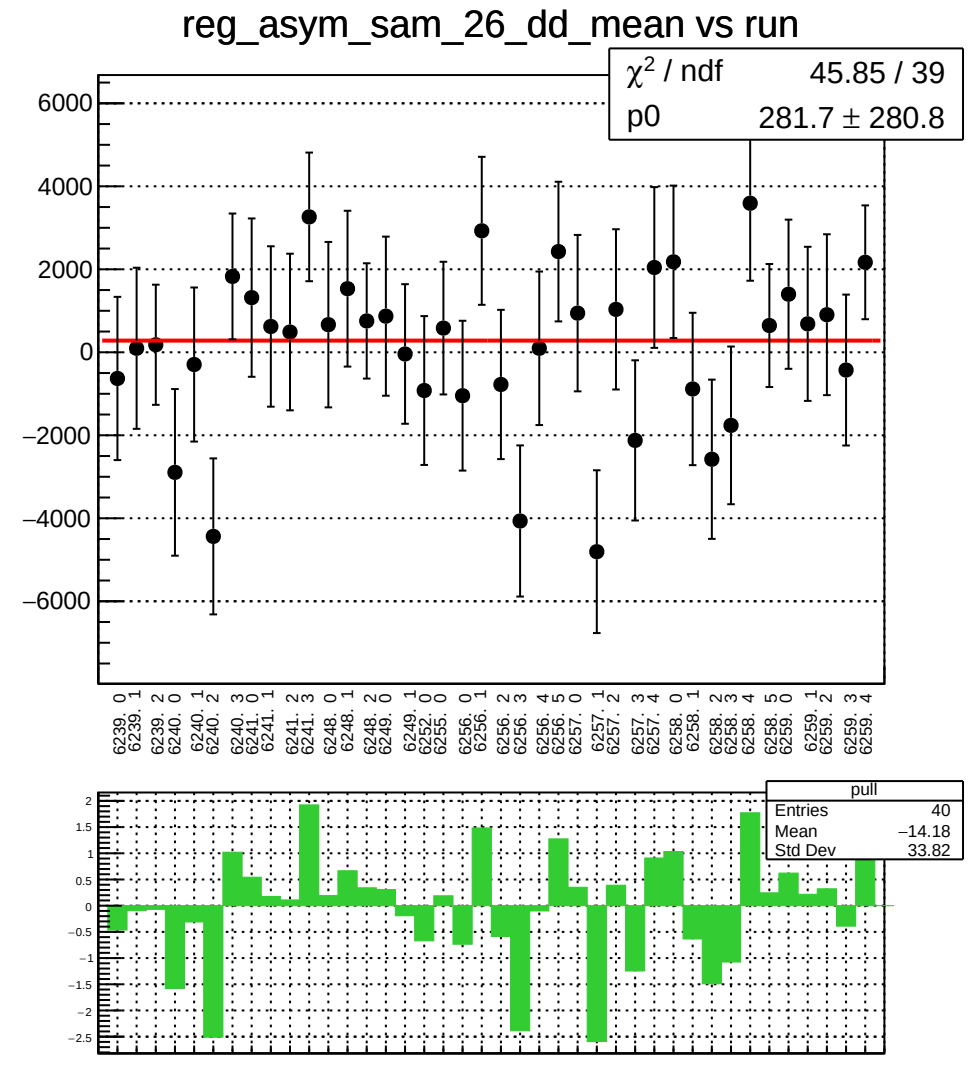

pull1D
Entries 40
Mean 0.009811
Std Dev 0.8705
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

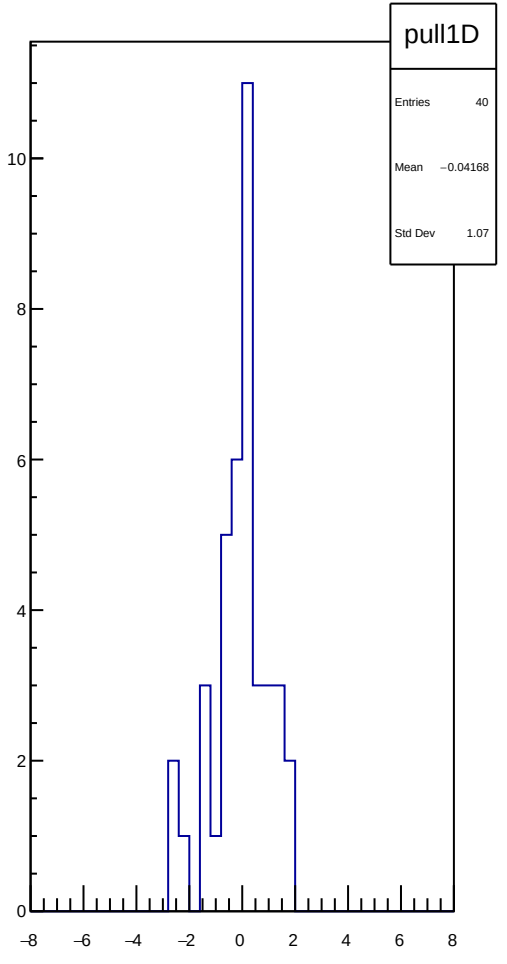

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1776 / 39
p0 926.1 ± 1.029
1050
1000
950
900
850
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

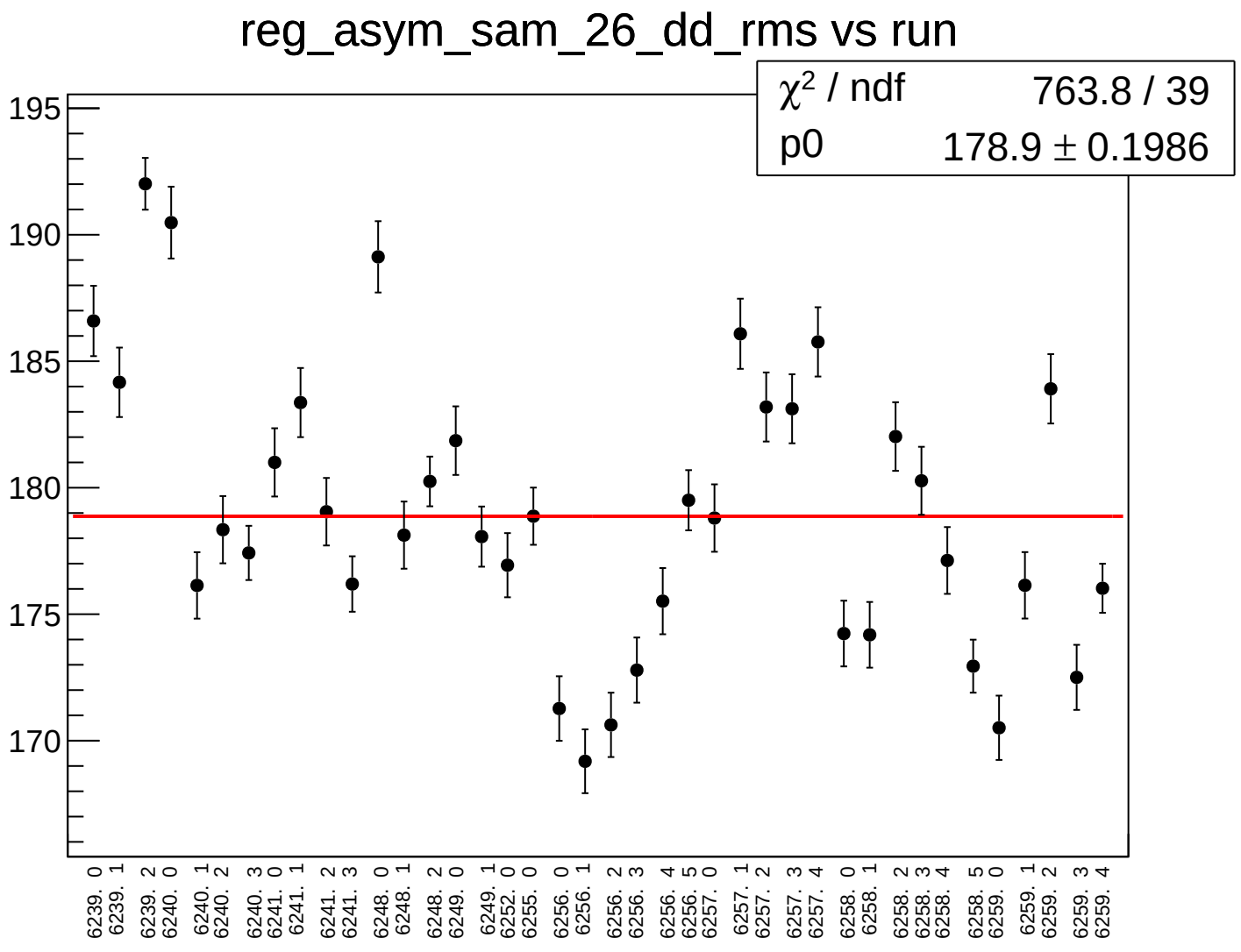

asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 29.37 / 39
p0 108.2 ± 1463
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −86.8
Std Dev 103.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

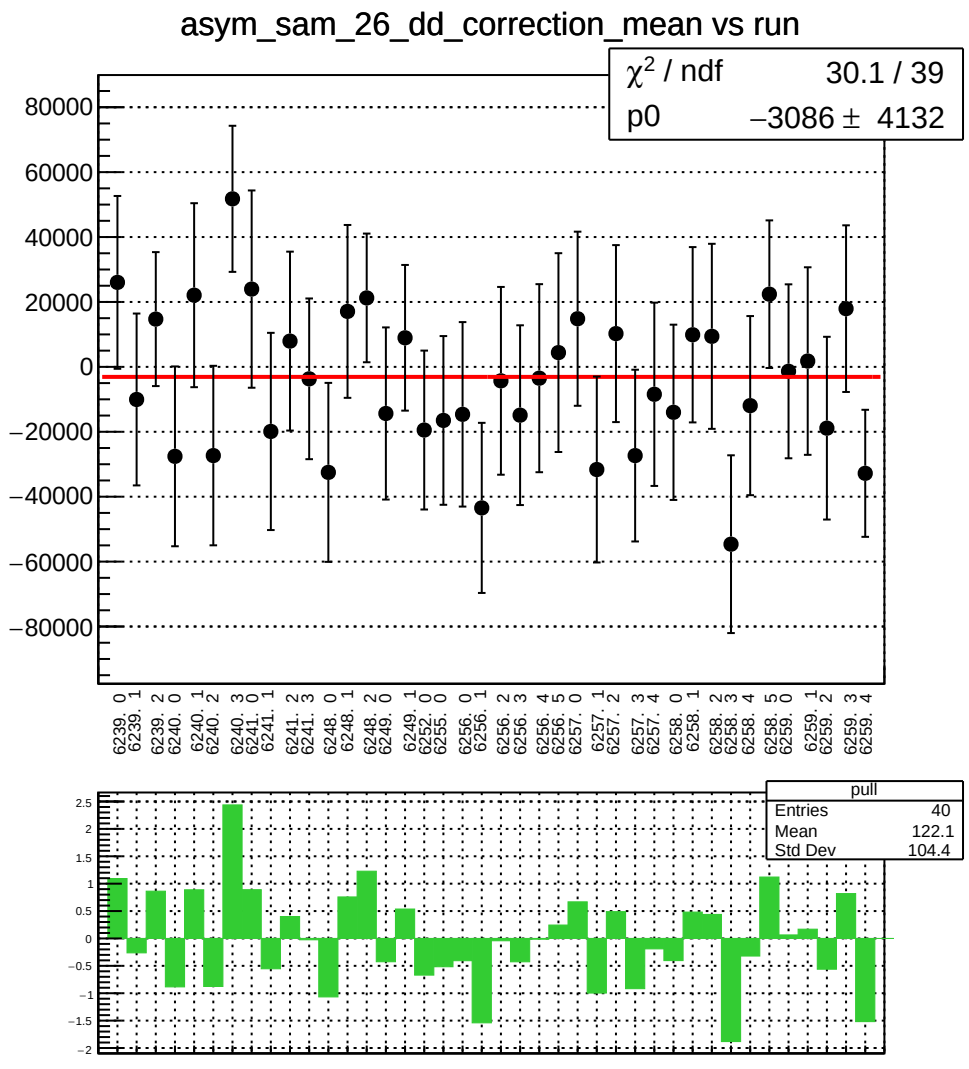

pull1D
Entries 40
Mean −0.01168
Std Dev 0.8568
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

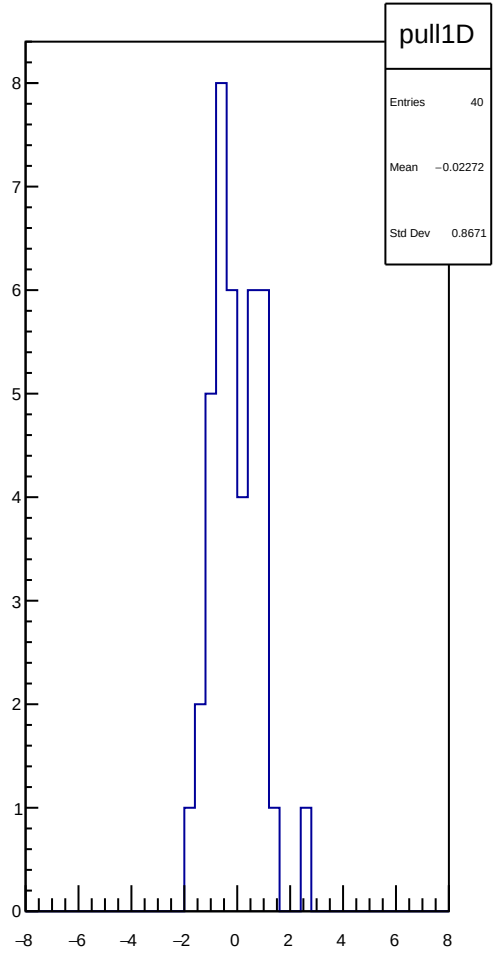

asym_sam_15_dd_rms vs run
χ² / ndf 1743 / 39
p0 931.1 ± 1.034
1050
1000
950
900
850
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

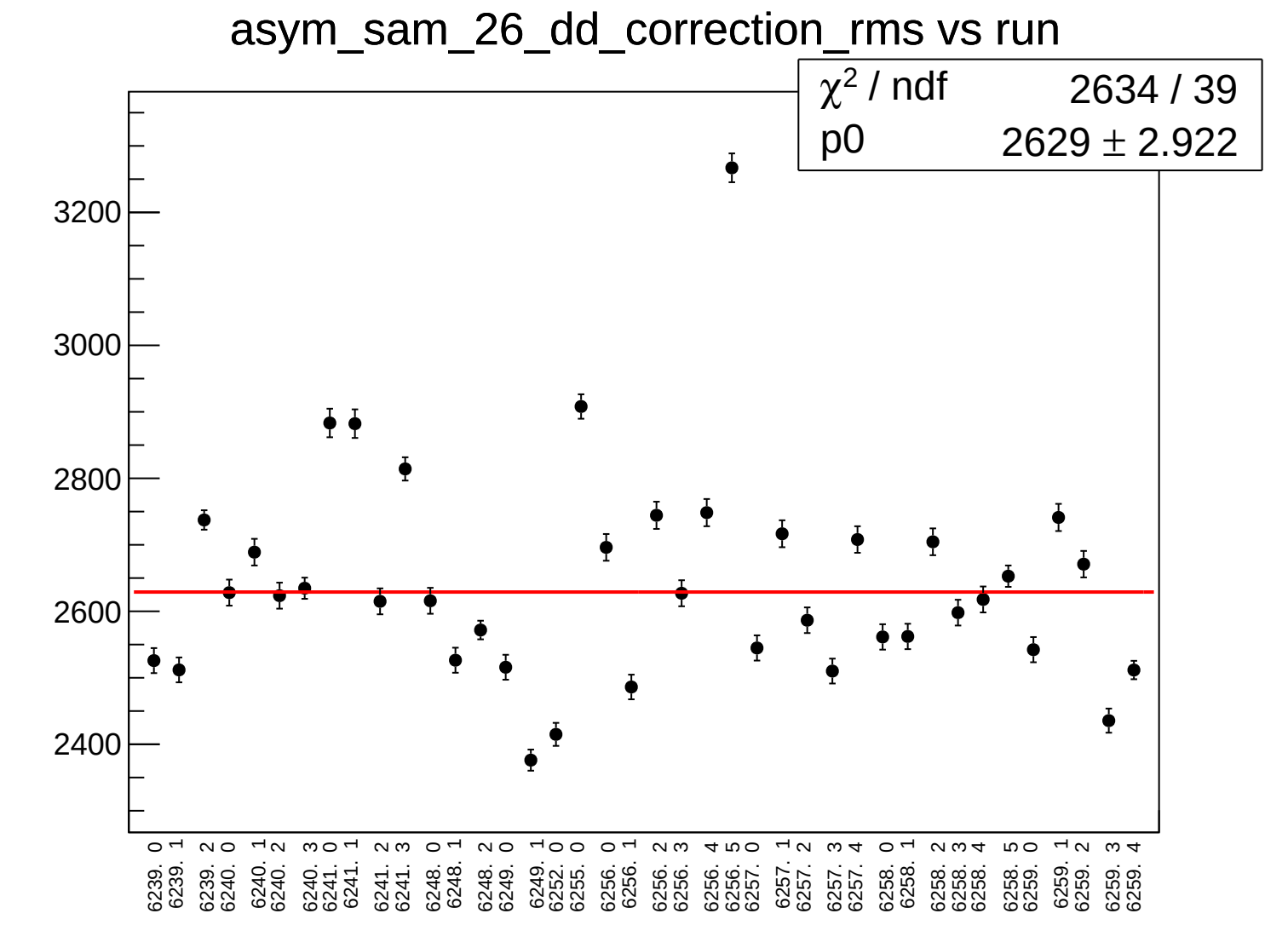

reg_asym_sam_26_dd_mean vs run
χ² / ndf 45.85 / 39
p0 281.7 ± 280.8
6000
4000
2000
0
−2000
−4000
−6000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −14.18
Std Dev 33.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

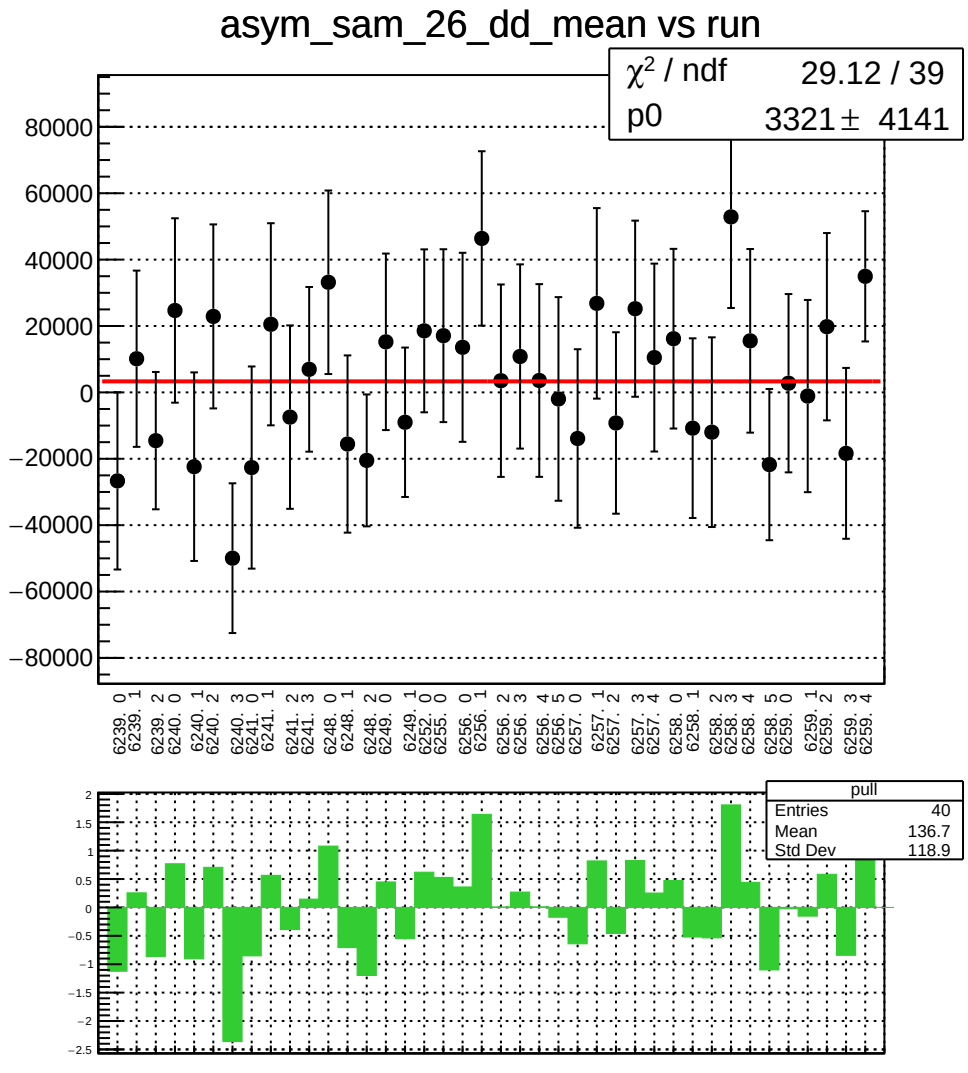

pull1D
Entries 40
Mean −0.04168
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

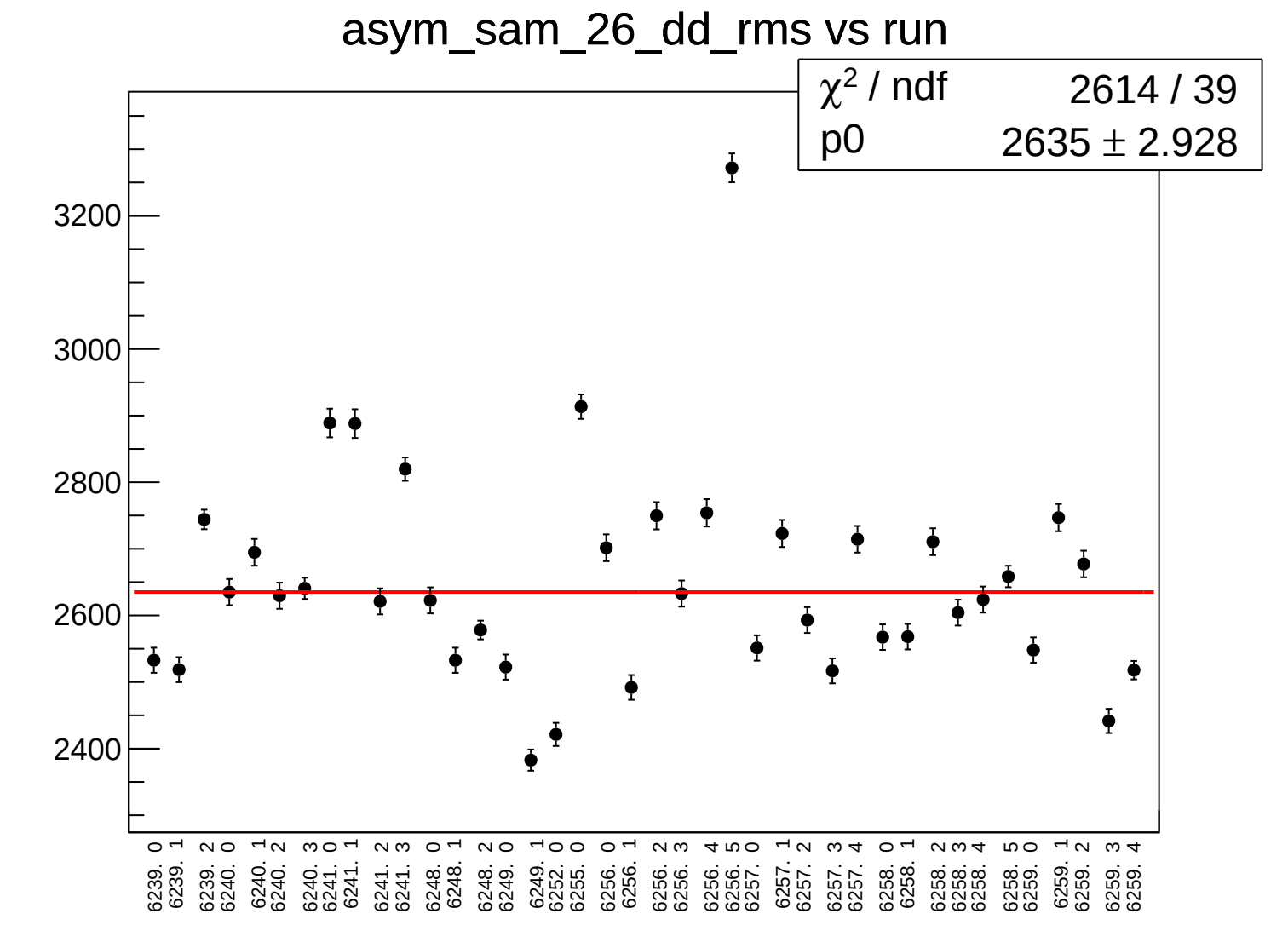

reg_asym_sam_26_dd_rms vs run
χ² / ndf 763.8 / 39
p0 178.9 ± 0.1986
195
190
185
180
175
170
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

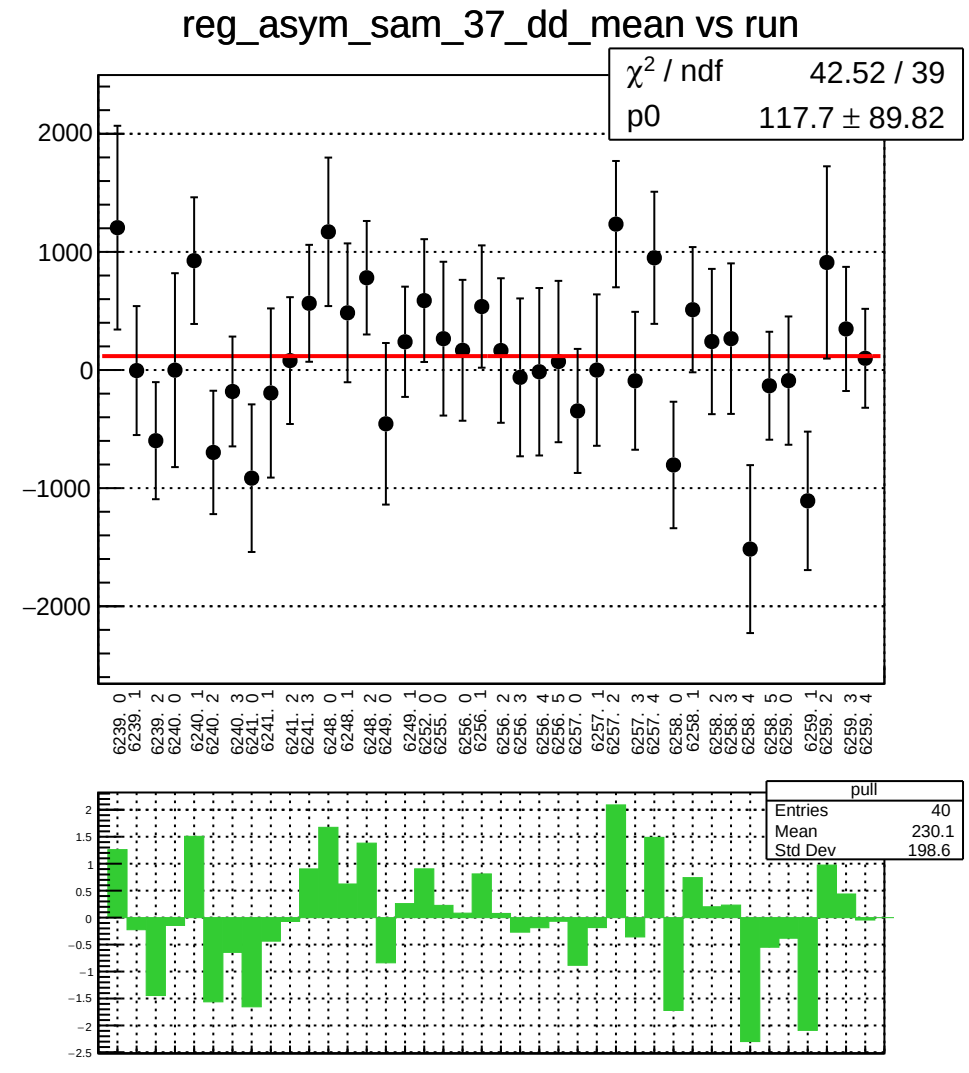

asym_sam_26_dd_correction_mean vs run
χ² / ndf 30.1 / 39
p0 −3086 ± 4132
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 122.1
Std Dev 104.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

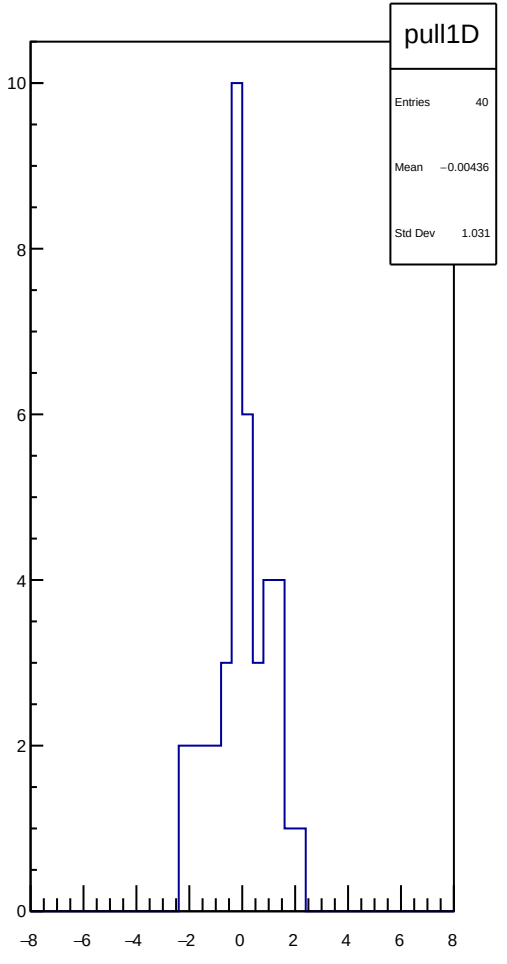

pull1D
Entries 40
Mean −0.02272
Std Dev 0.8671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

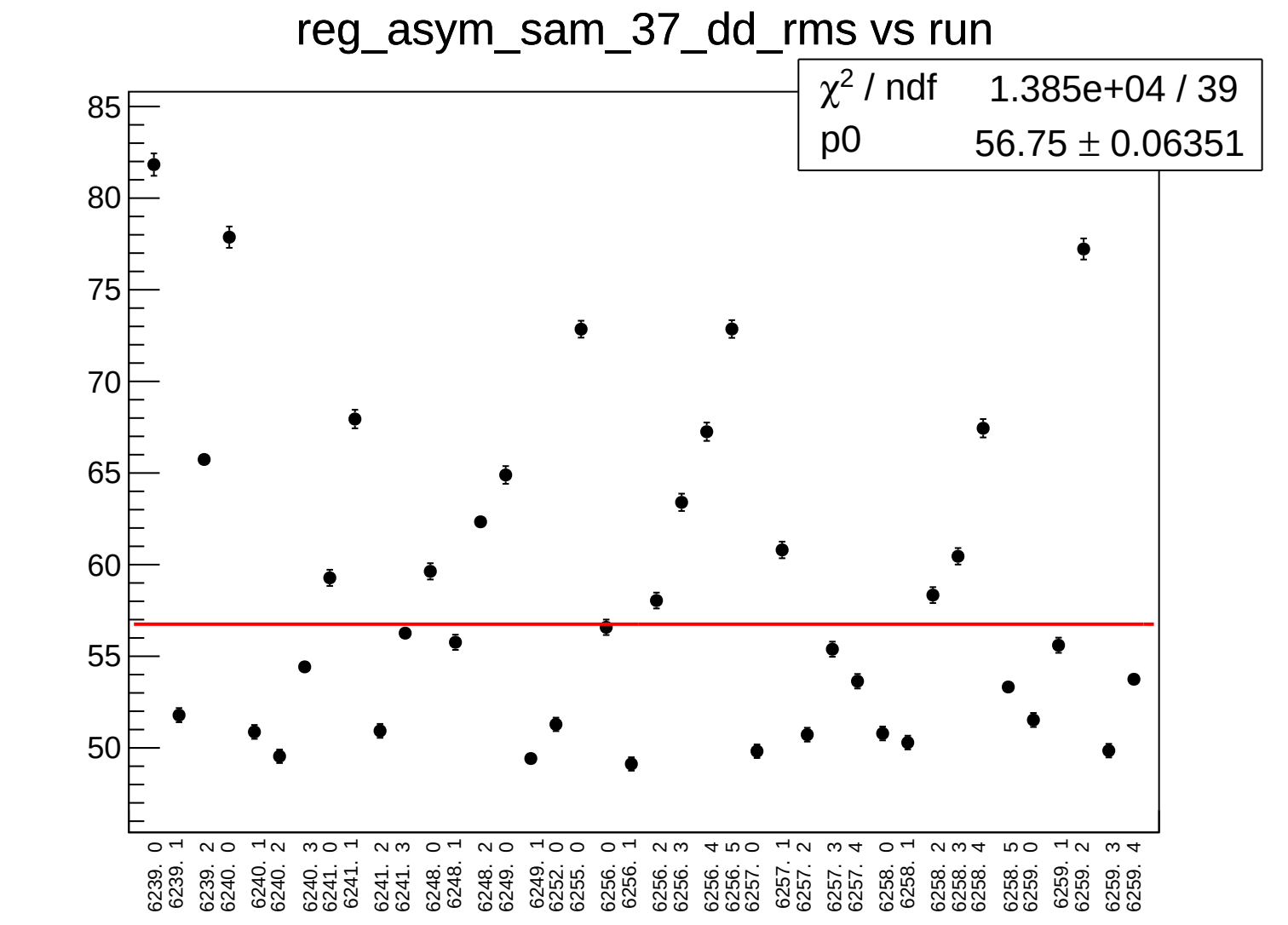

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2634 / 39
p0 2629 ± 2.922
3200
3000
2800
2600
2400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

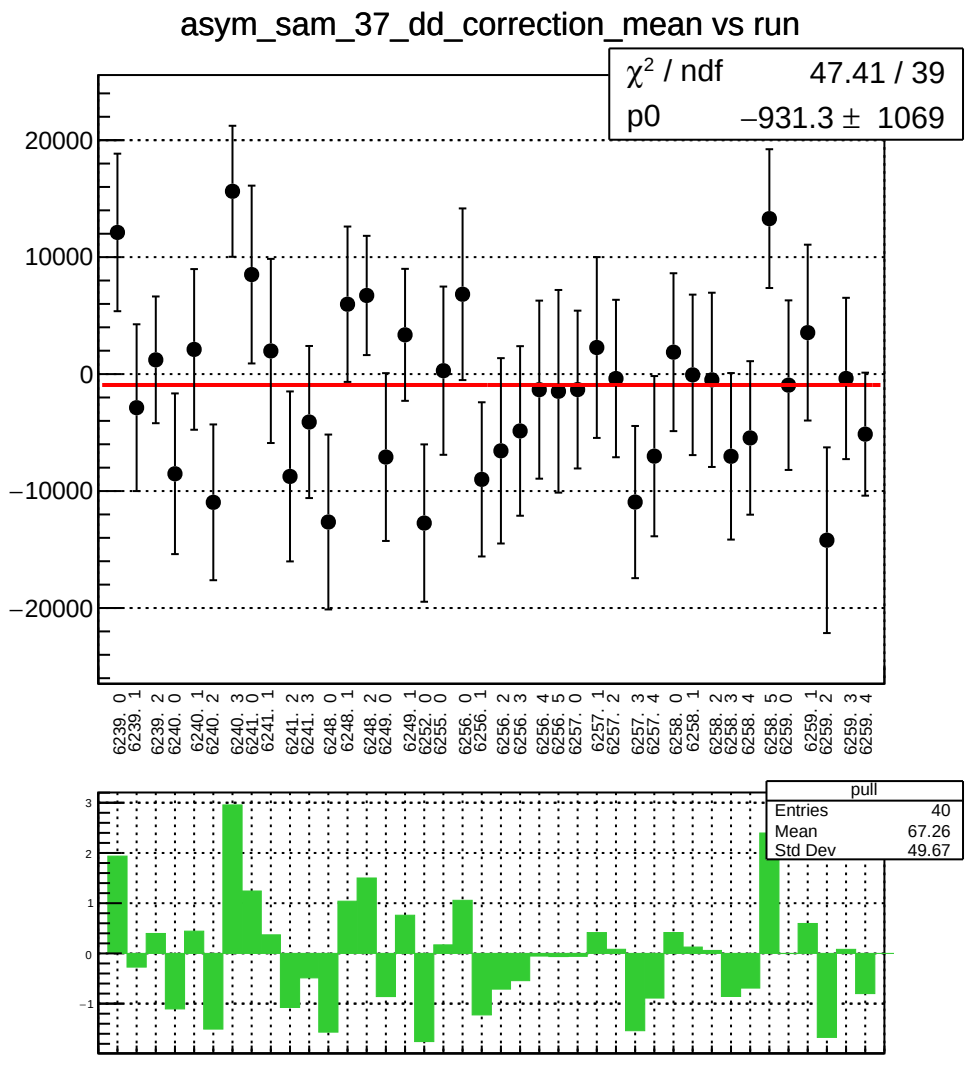

asym_sam_26_dd_mean vs run
χ² / ndf 29.12 / 39
p0 3321 ± 4141
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 136.7
Std Dev 118.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.0207
Std Dev 0.853
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

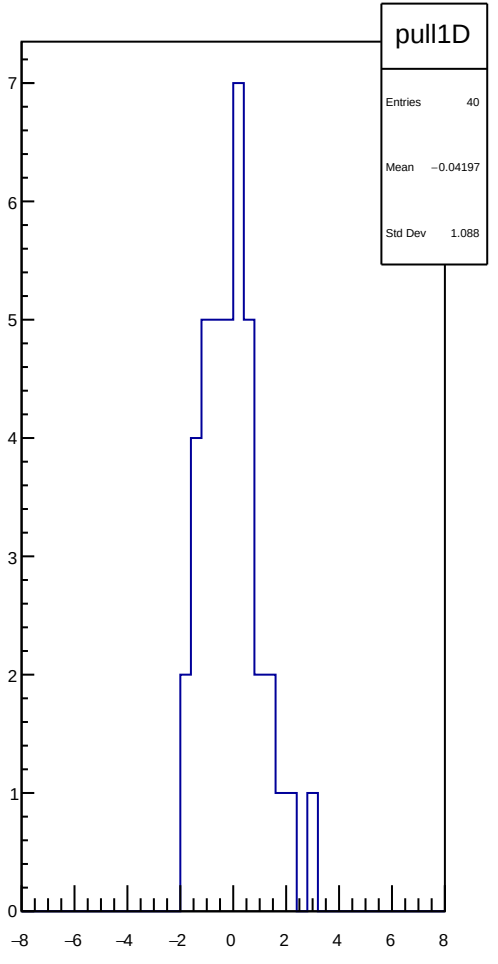

asym_sam_26_dd_rms vs run
χ² / ndf 2614 / 39
p0 2635 ± 2.928
3200
3000
2800
2600
2400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

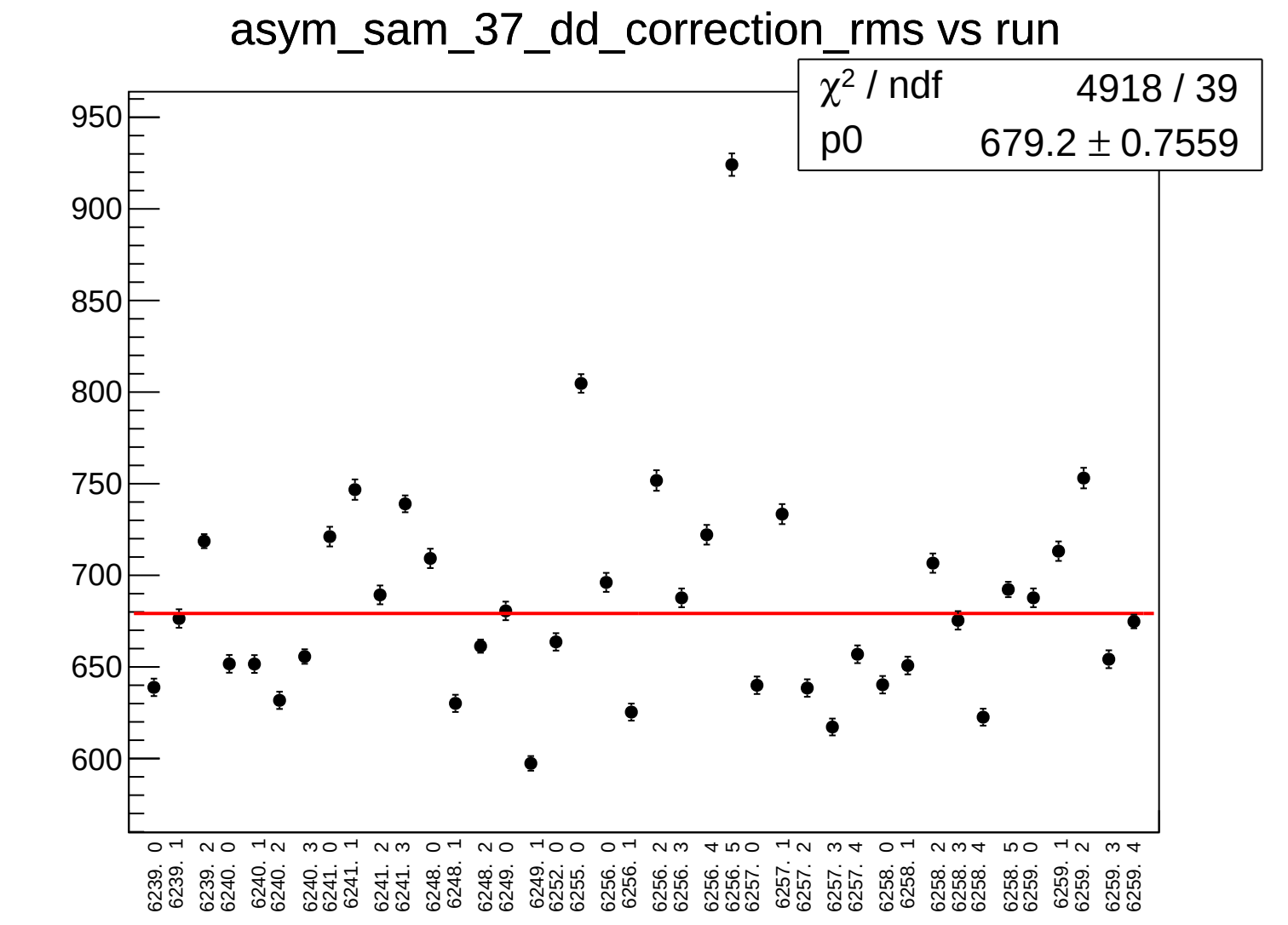

reg_asym_sam_37_dd_mean vs run
χ² / ndf 42.52 / 39
p0 117.7 ± 89.82
2000
1000
0
−1000
−2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 230.1
Std Dev 198.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

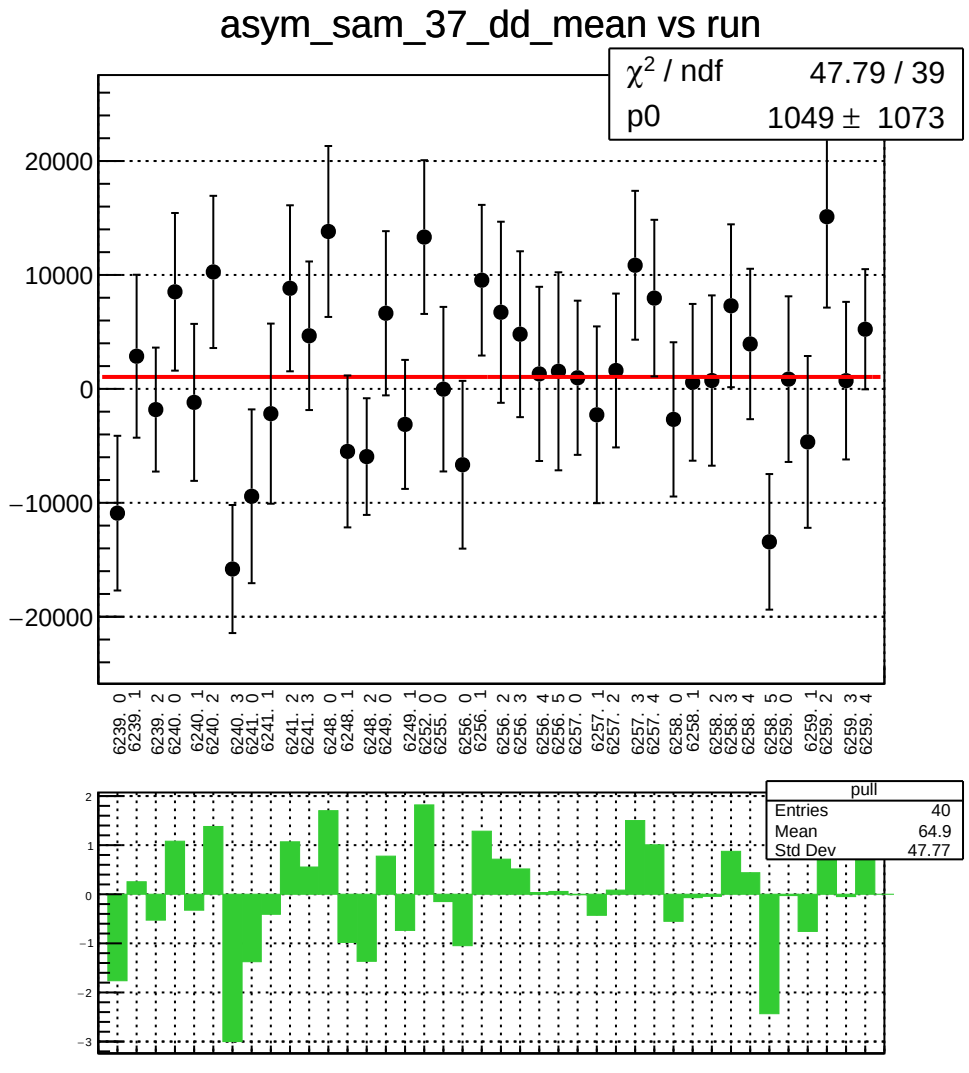

pull1D
Entries 40
Mean −0.00436
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

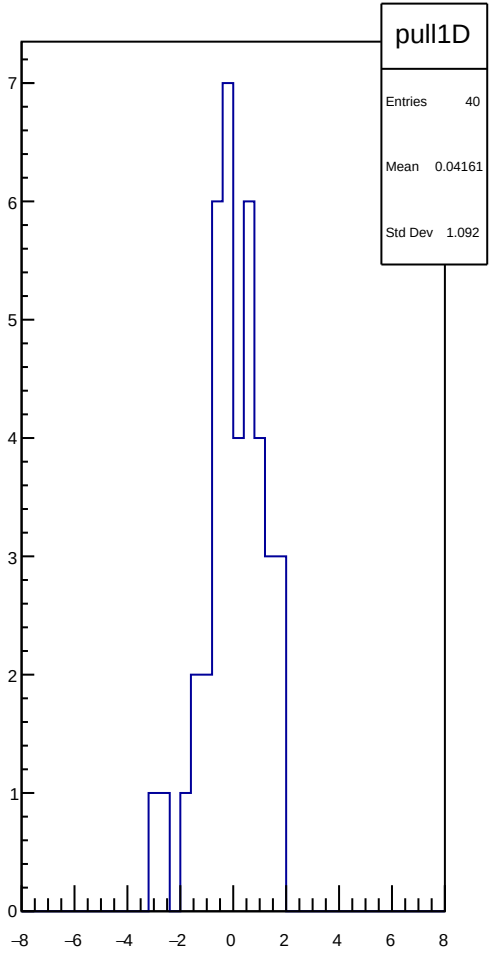

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.385e+04 / 39
p0 56.75 ± 0.06351
85
80
75
70
65
60
55
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

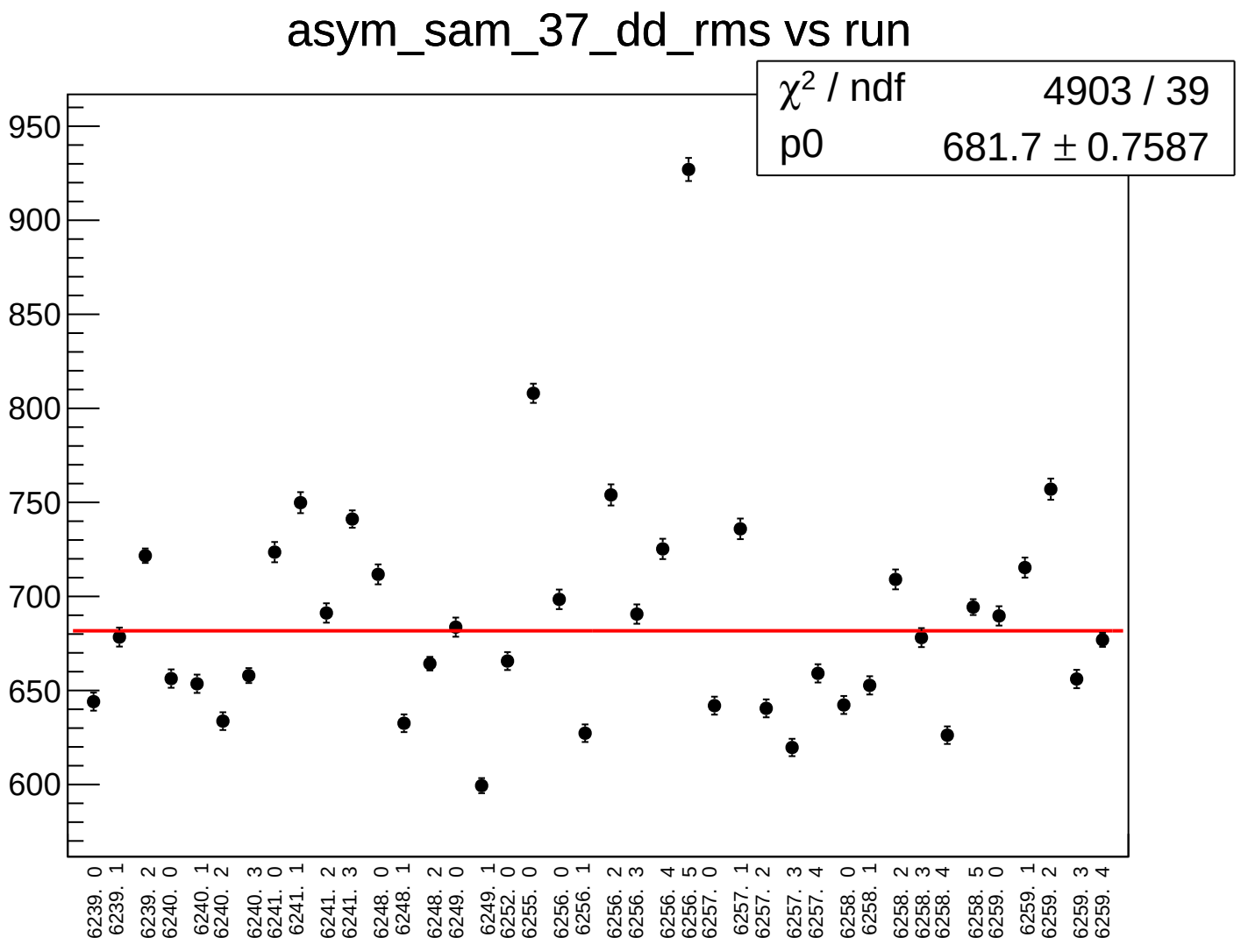

asym_sam_37_dd_correction_mean vs run
χ² / ndf 47.41 / 39
p0 −931.3 ± 1069
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 67.26
Std Dev 49.67
3
2
1
0
−1

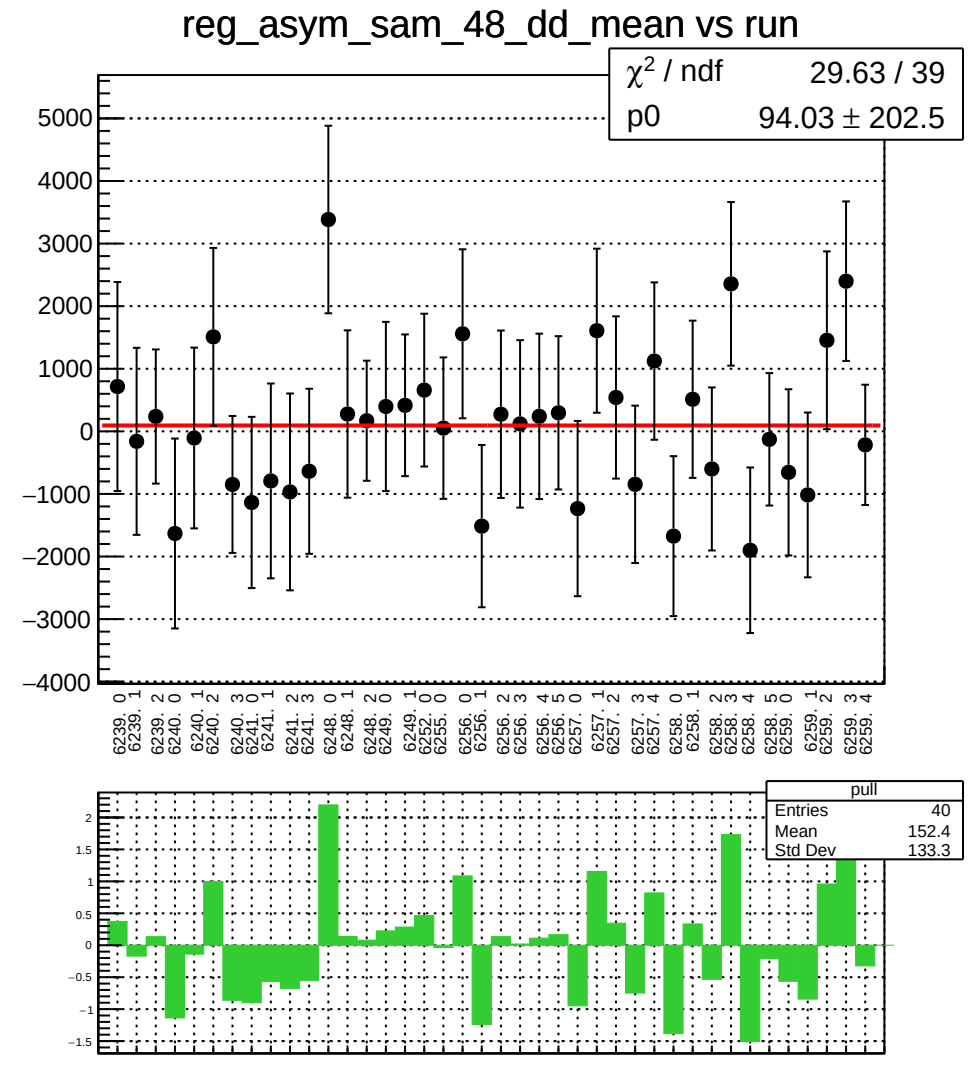

pull1D
Entries 40
Mean −0.04197
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

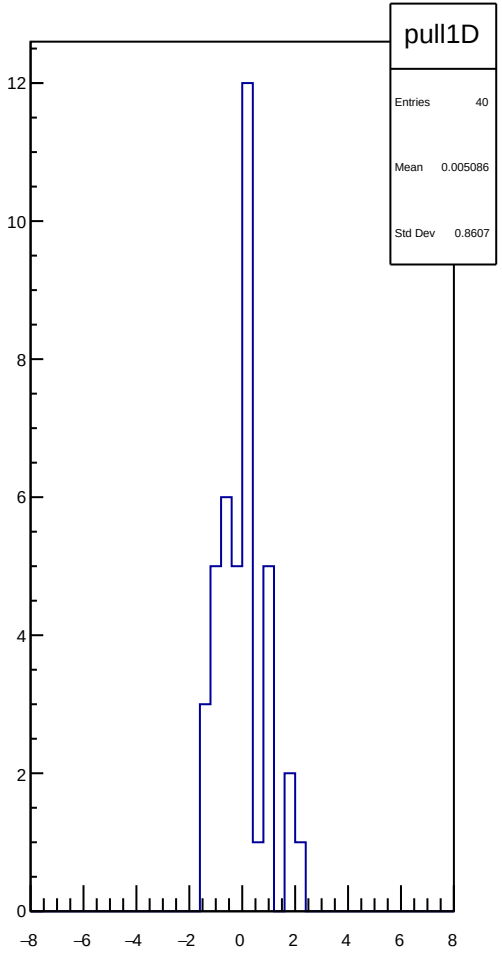

asym_sam_37_dd_correction_rms vs run
χ² / ndf 4918 / 39
p0 679.2 ± 0.7559
950
900
850
800
750
700
650
600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

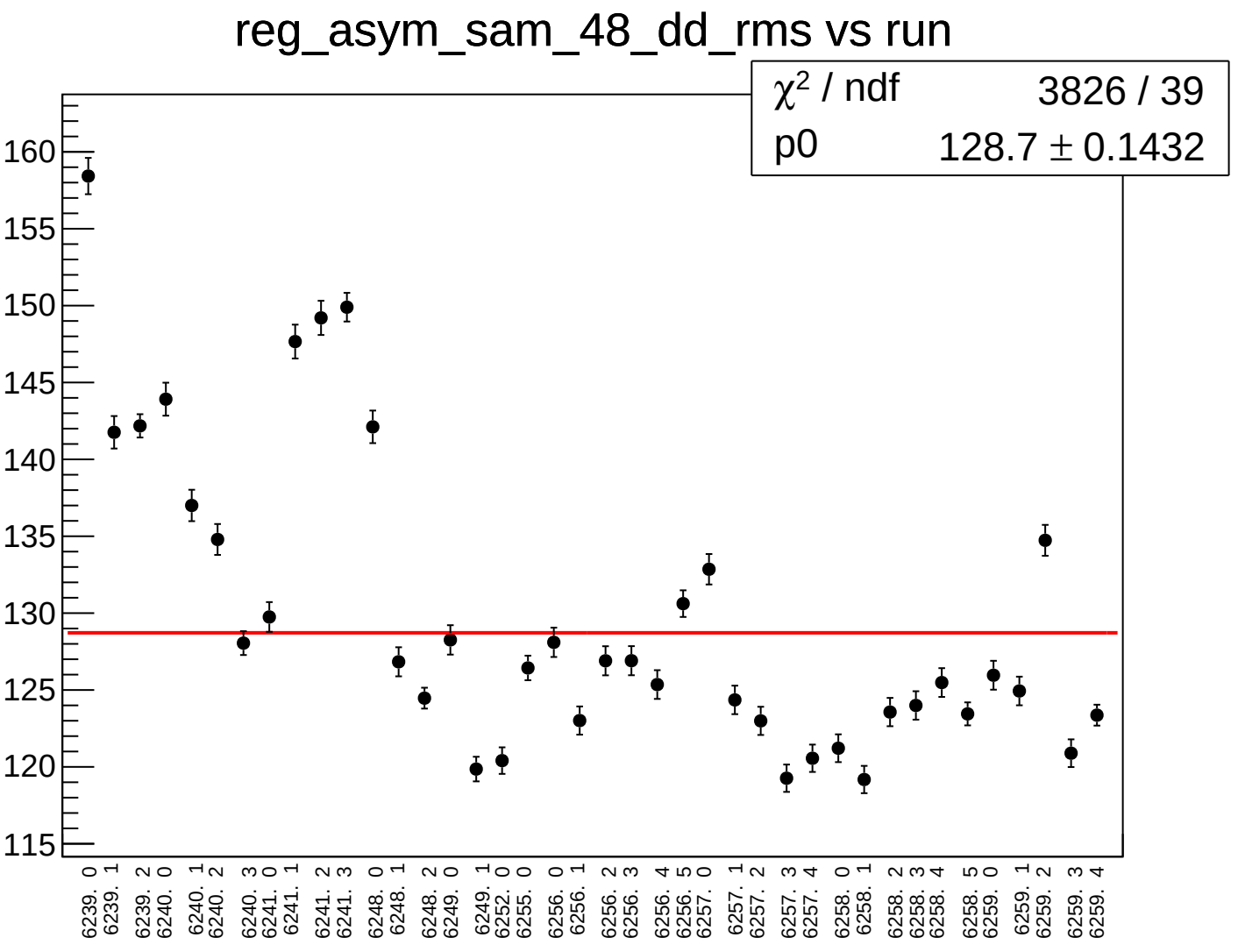

asym_sam_37_dd_mean vs run
χ² / ndf 47.79 / 39
p0 1049 ± 1073
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 64.9
Std Dev 47.77
2
1
0
−1
−2
−3

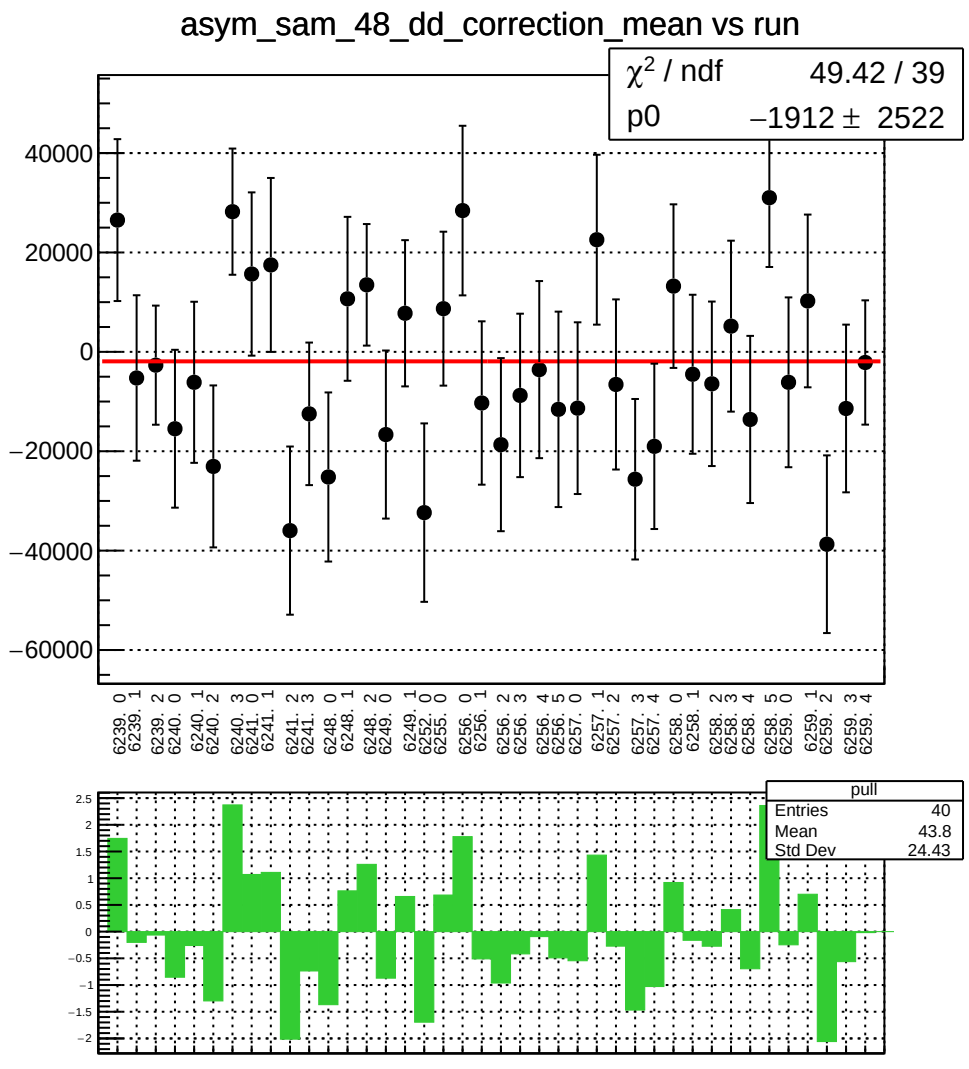

pull1D
Entries 40
Mean 0.04161
Std Dev 1.092
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

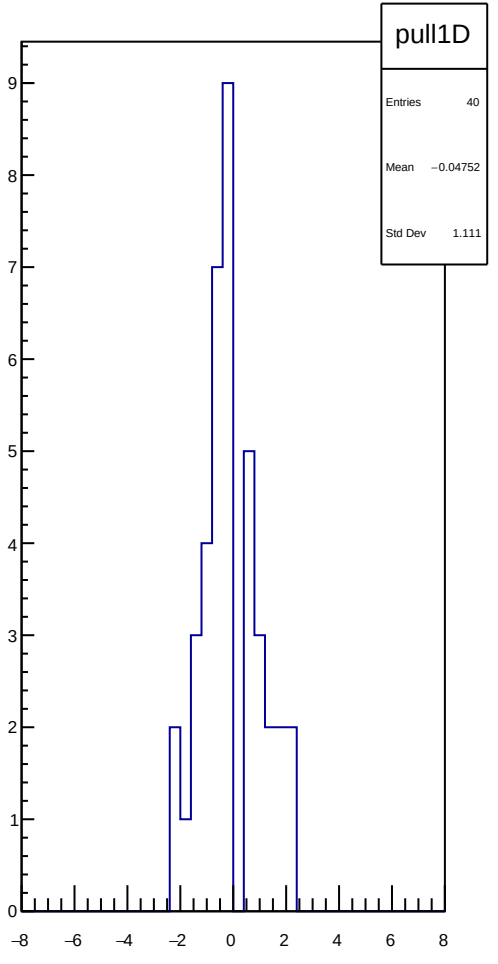

asym_sam_37_dd_rms vs run
χ² / ndf 4903 / 39
p0 681.7 ± 0.7587
950
900
850
800
750
700
650
600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

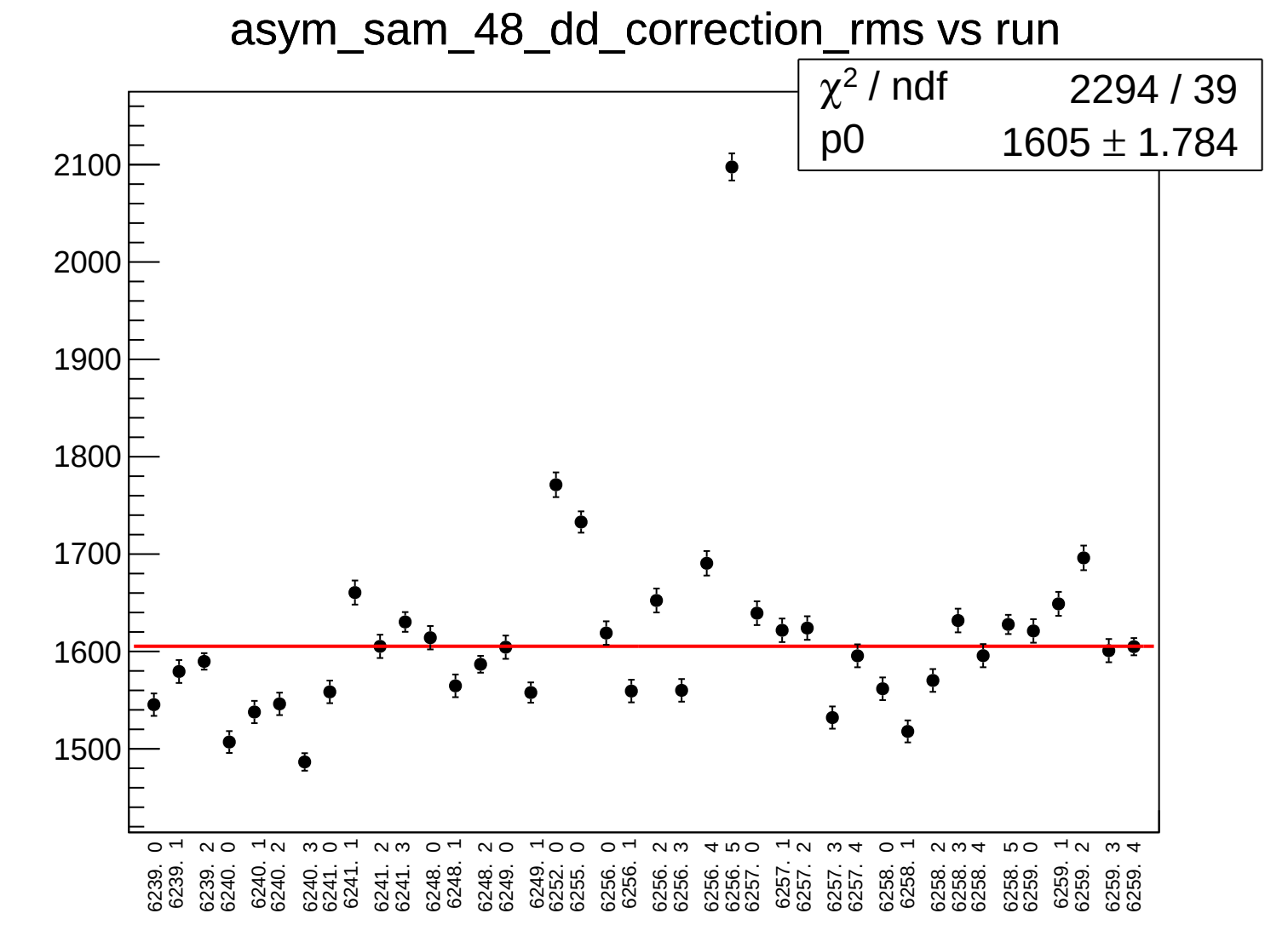

reg_asym_sam_48_dd_mean vs run
$\chi^2$ / ndf 29.63 / 39
p0 94.03 ± 202.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 152.4
Std Dev 133.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

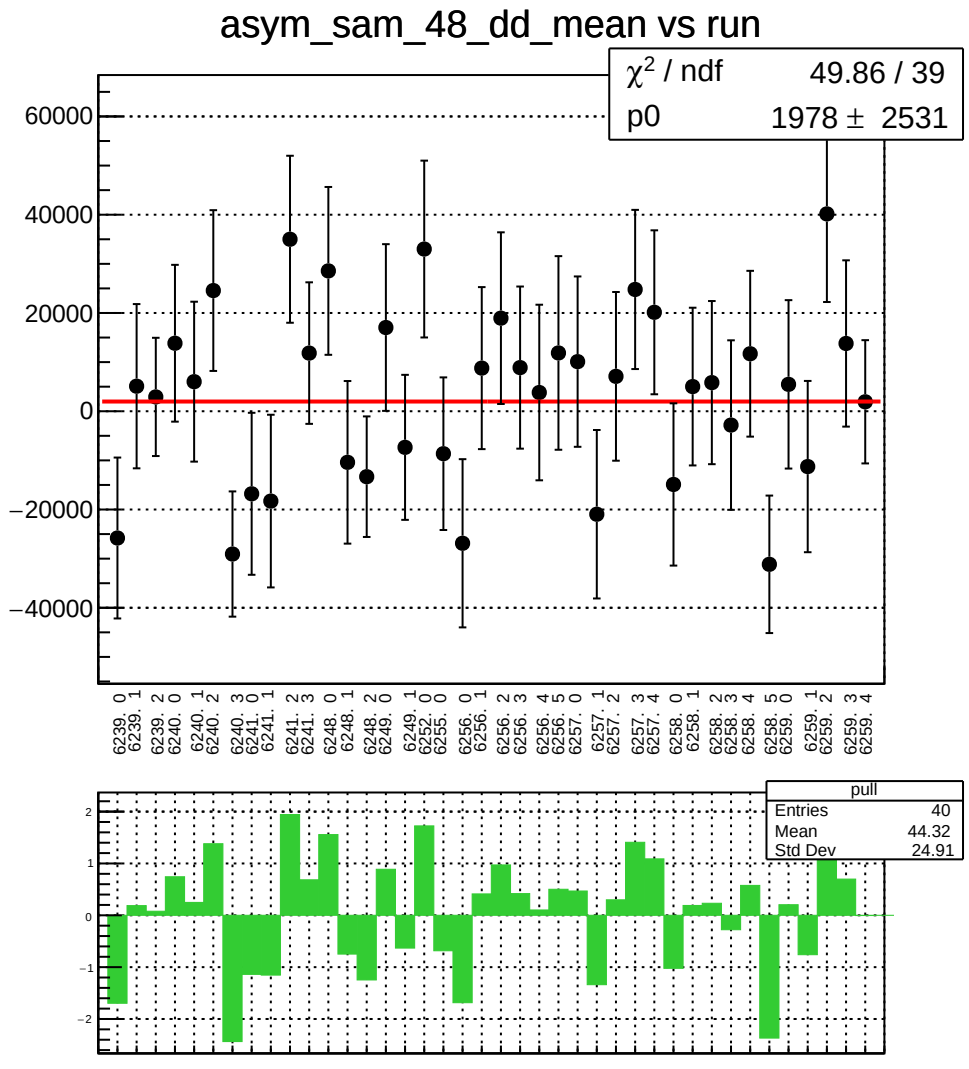

pull1D
Entries 40
Mean 0.005086
Std Dev 0.8607
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

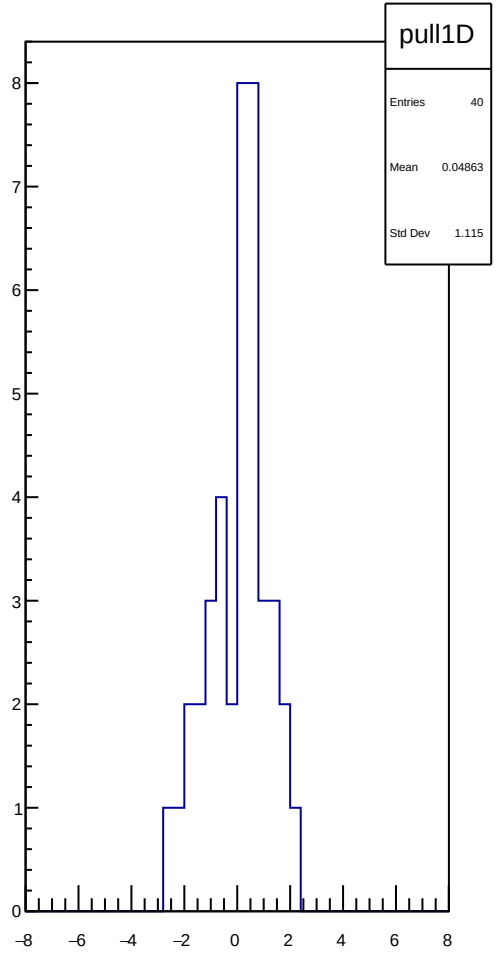

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3826 / 39
p0 128.7 ± 0.1432
160
155
150
145
140
135
130
125
120
115
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

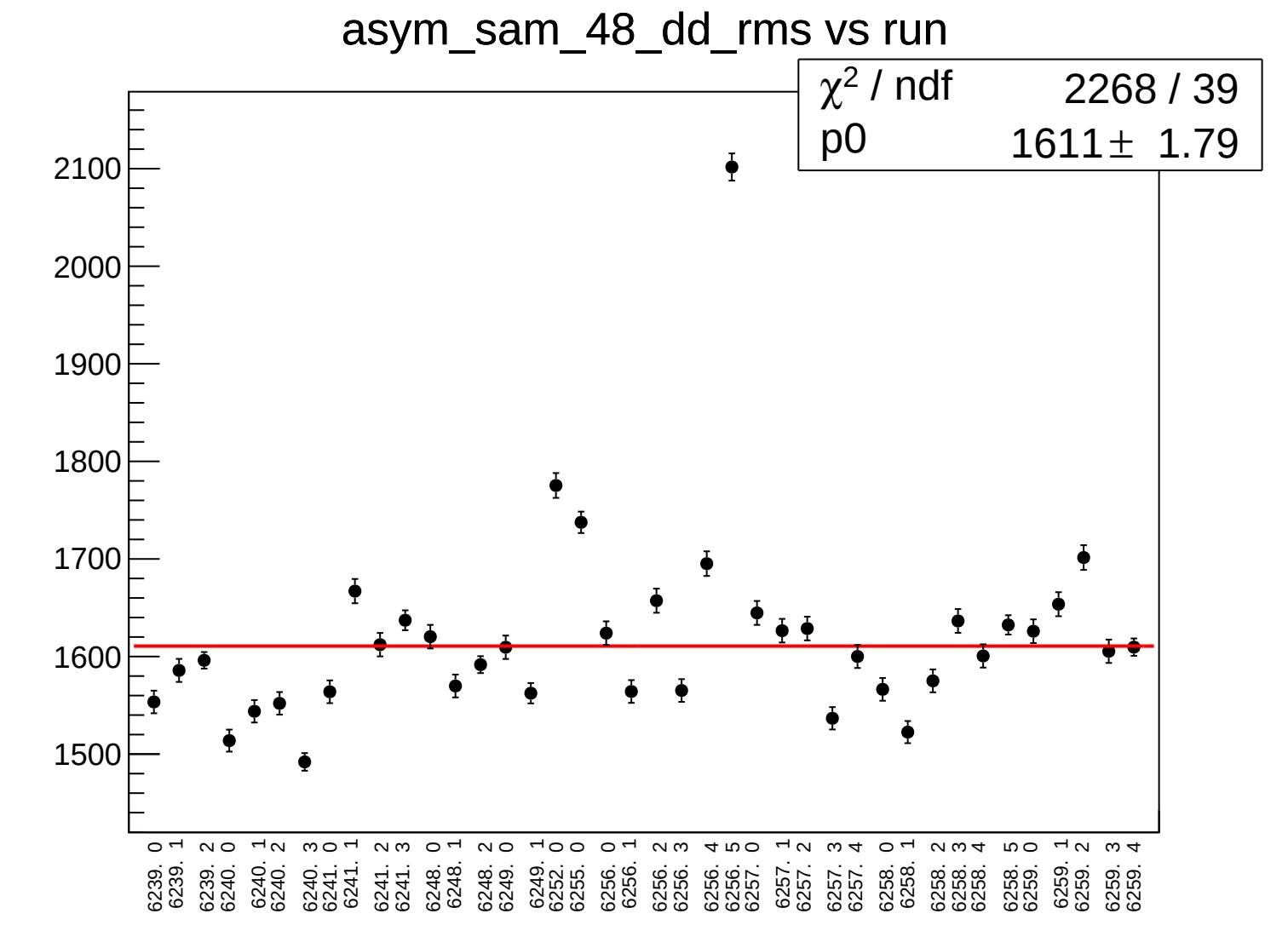

asym_sam_48_dd_correction_mean vs run
χ² / ndf 49.42 / 39
p0 −1912 ± 2522
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 43.8
Std Dev 24.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

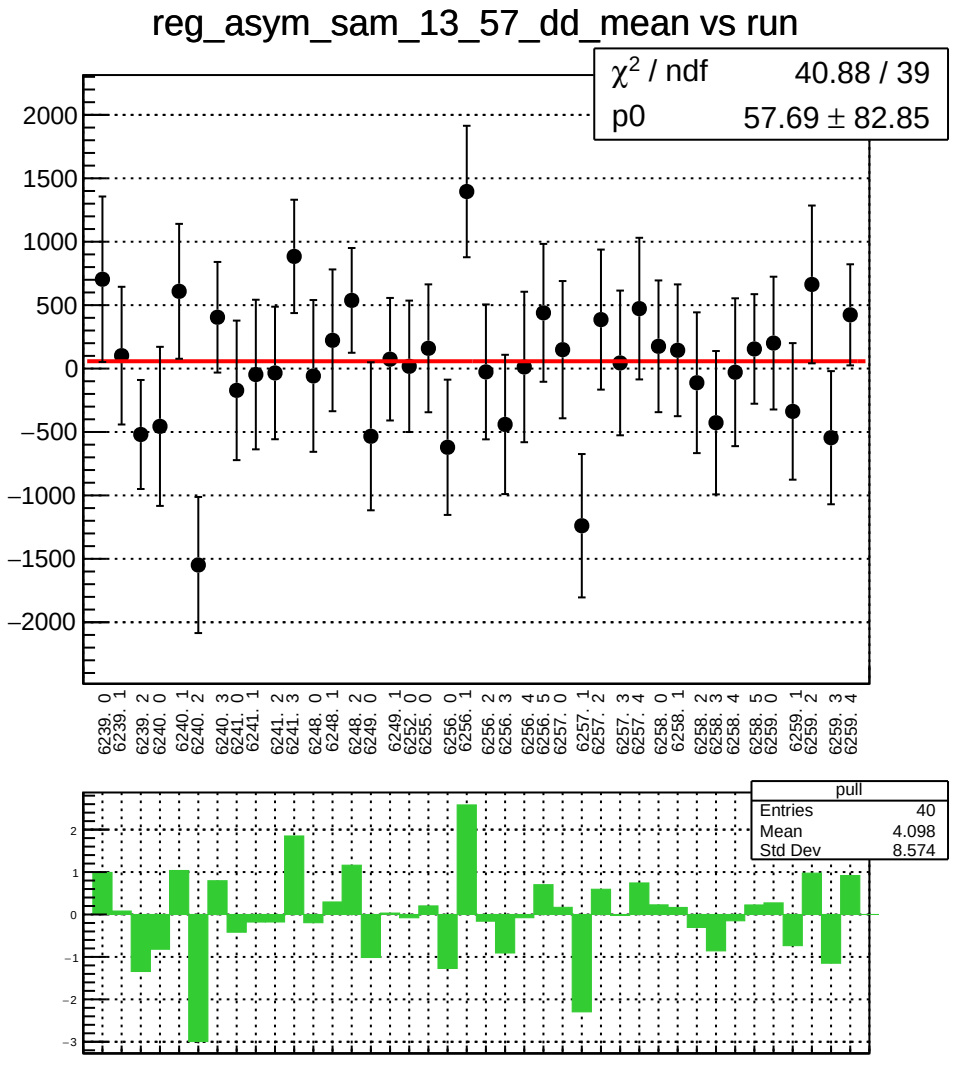

pull1D
Entries 40
Mean −0.04752
Std Dev 1.111
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

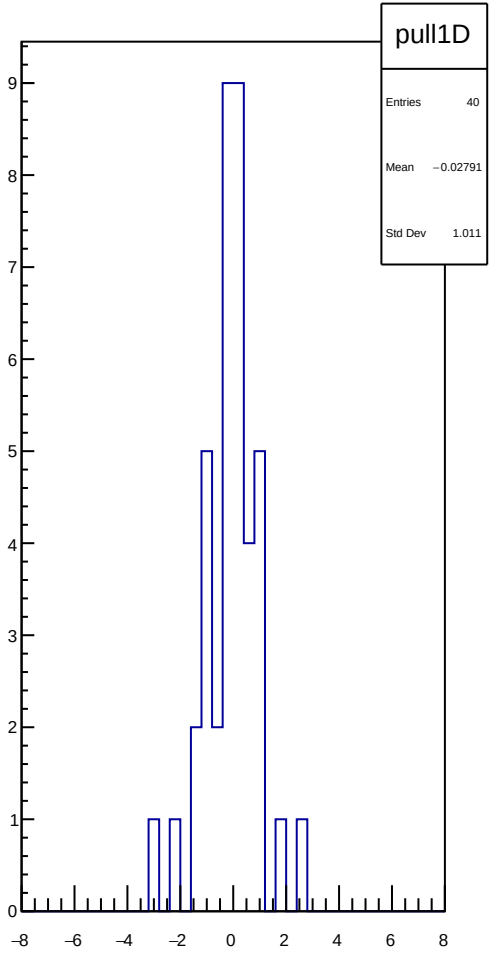

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2294 / 39
p0 1605 ± 1.784
2100
2000
1900
1800
1700
1600
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

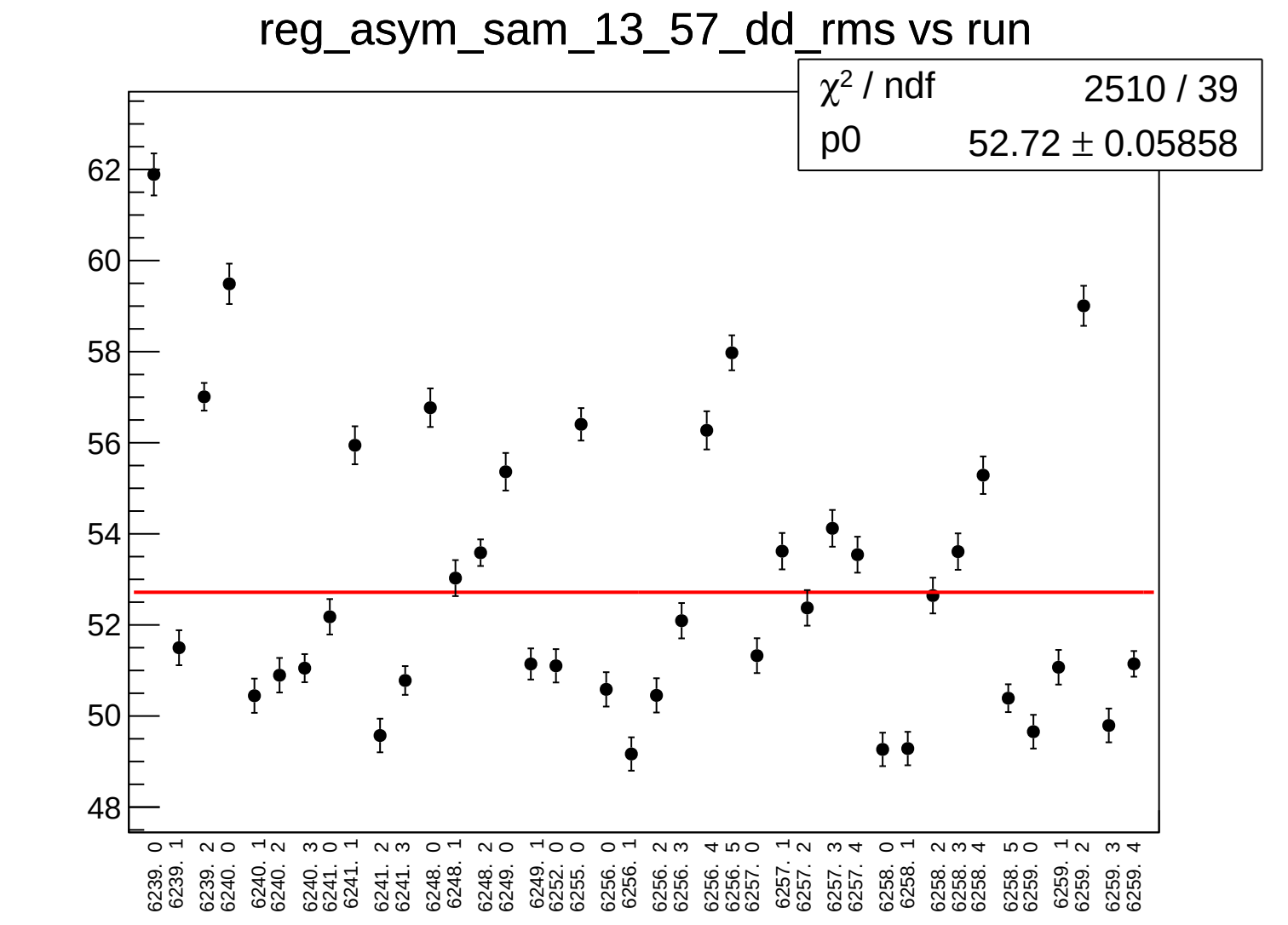

asym_sam_48_dd_mean vs run
χ² / ndf 49.86 / 39
p0 1978 ± 2531
60000
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 44.32
Std Dev 24.91
2
1
0
−1
−2

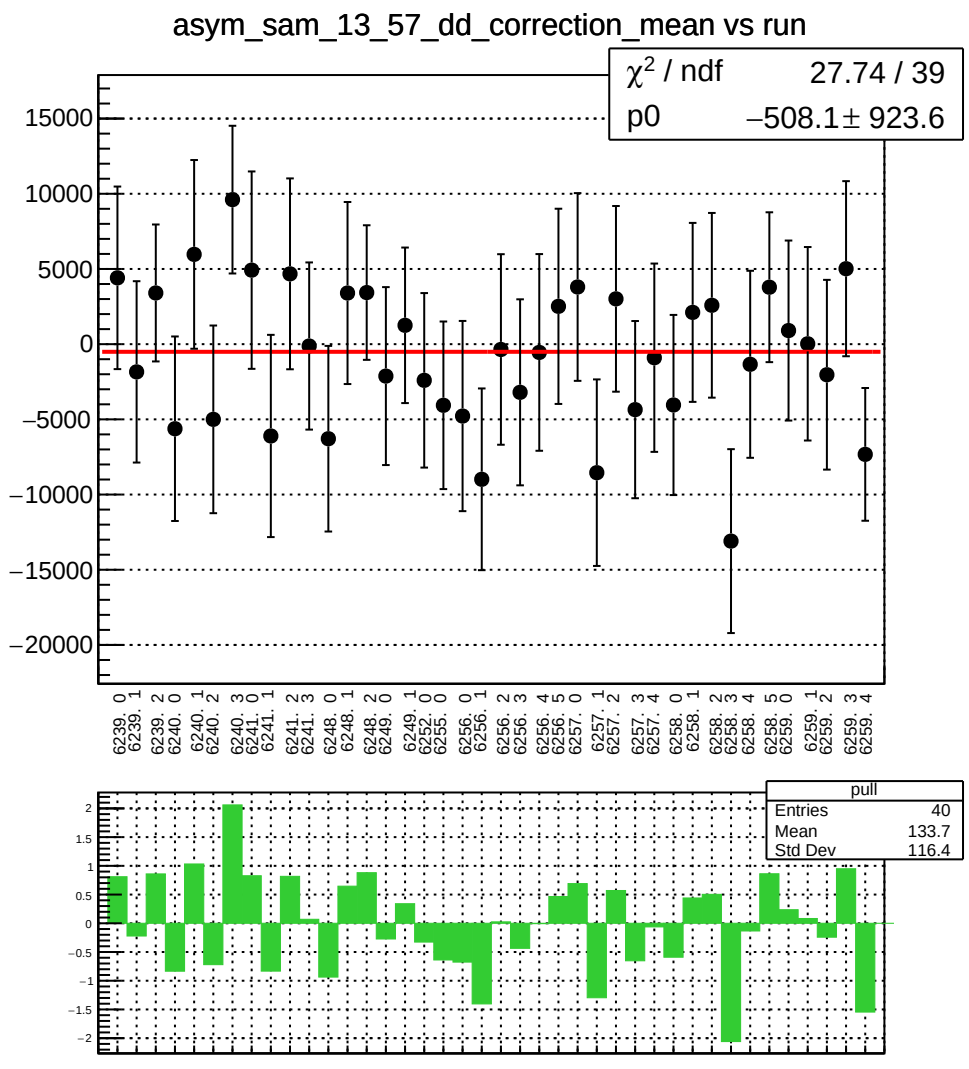

pull1D
Entries 40
Mean 0.04863
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

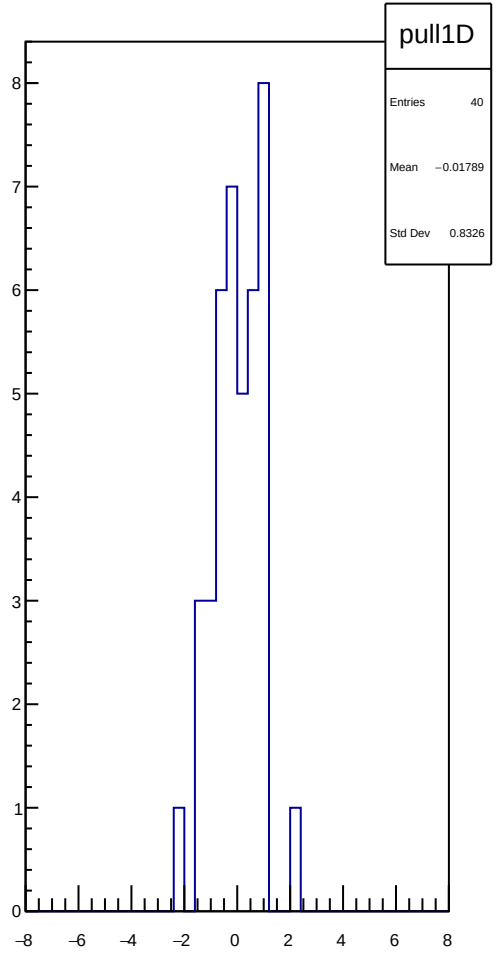

asym_sam_48_dd_rms vs run
χ² / ndf 2268 / 39
p0 1611 ± 1.79
2100
2000
1900
1800
1700
1600
1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

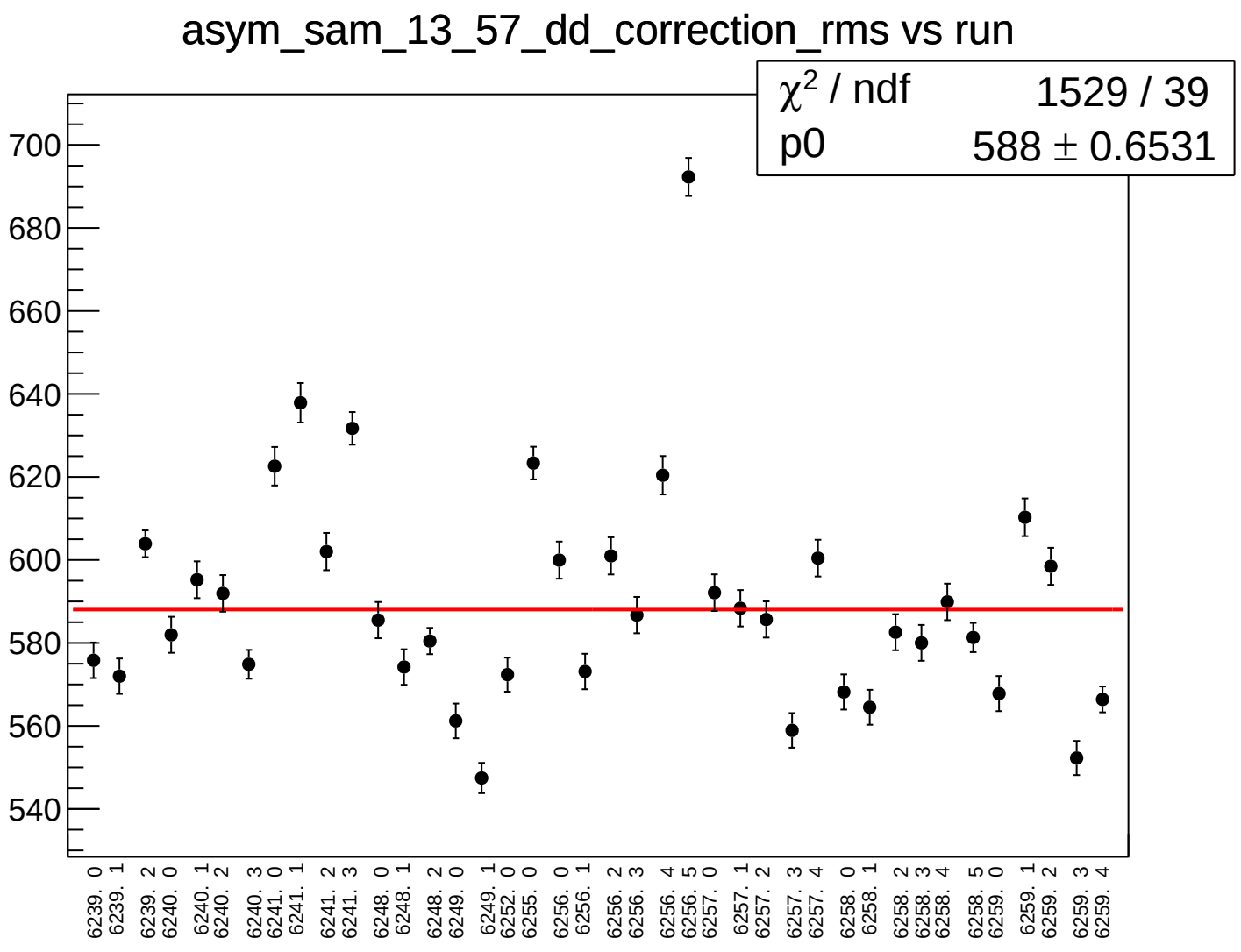

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 40.88 / 39
p0 57.69 ± 82.85
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 4.098
Std Dev 8.574
2
1
0
−1
−2
−3

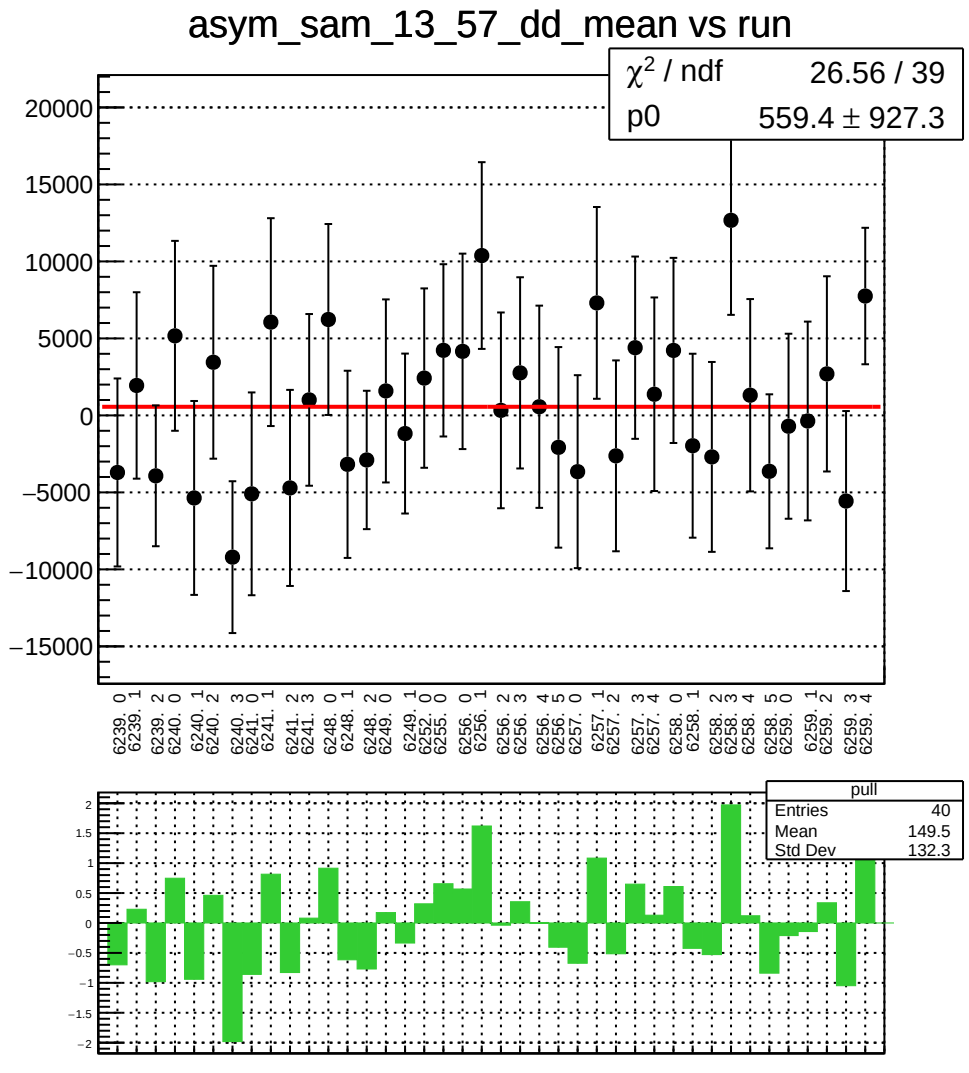

pull1D
Entries 40
Mean −0.02791
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

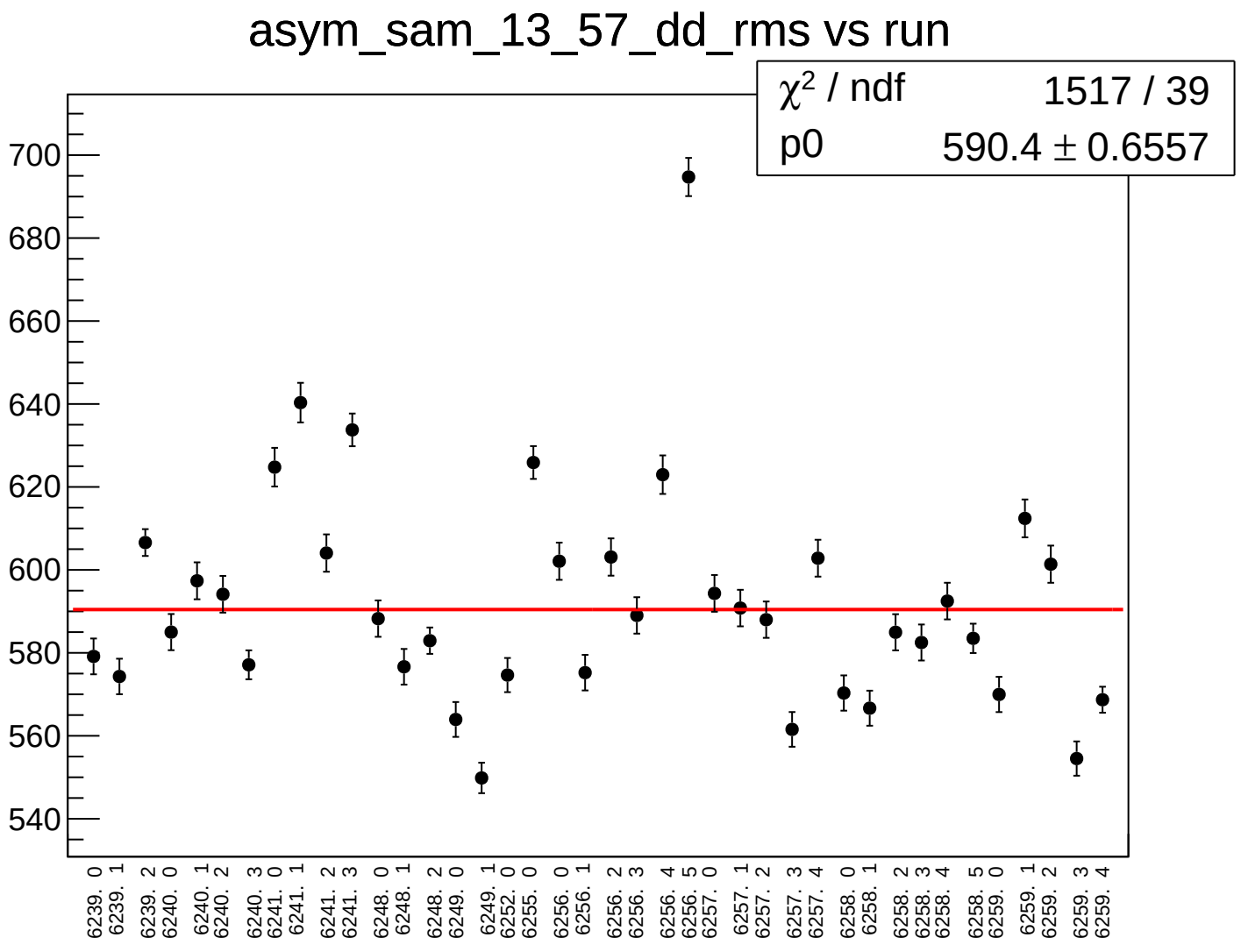

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2510 / 39
p0 52.72 ± 0.05858
62
60
58
56
54
52
50
48
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

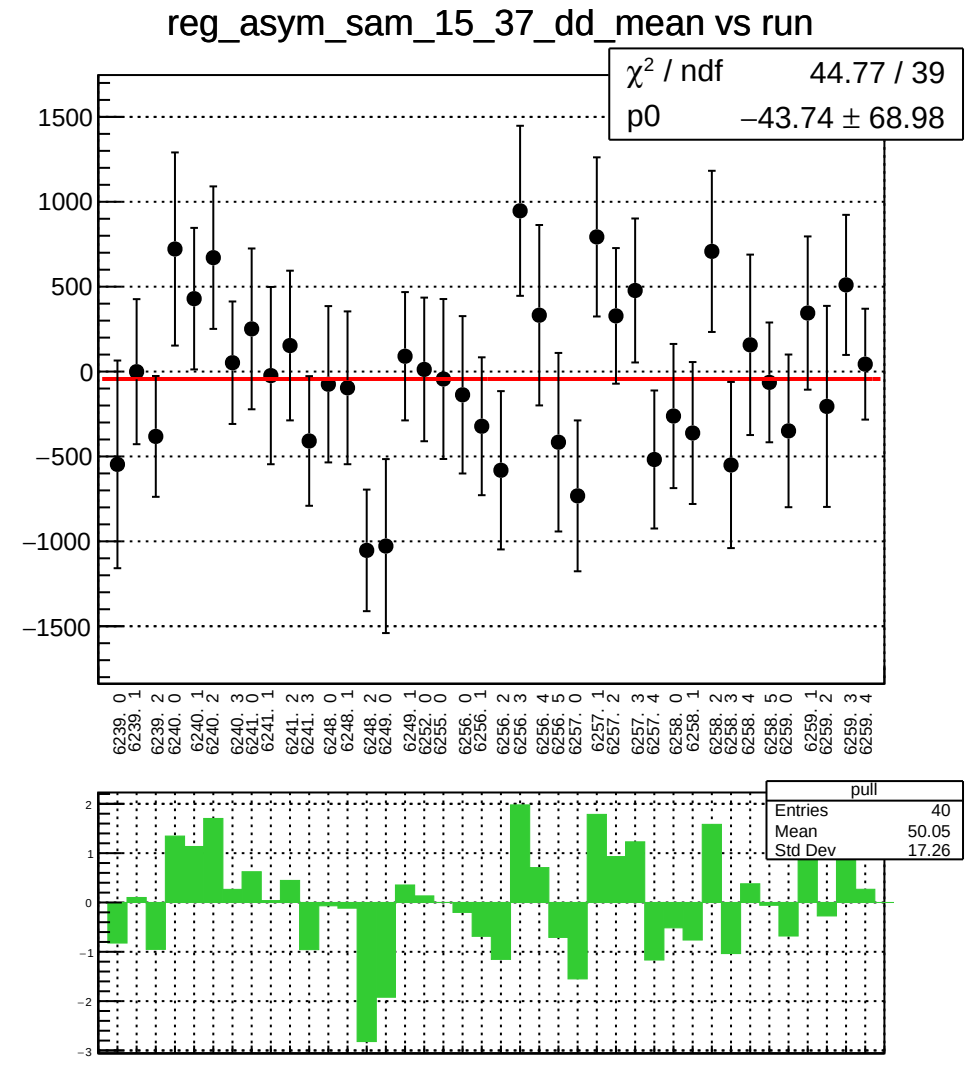

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 27.74 / 39
p0 −508.1± 923.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 133.7
Std Dev 116.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

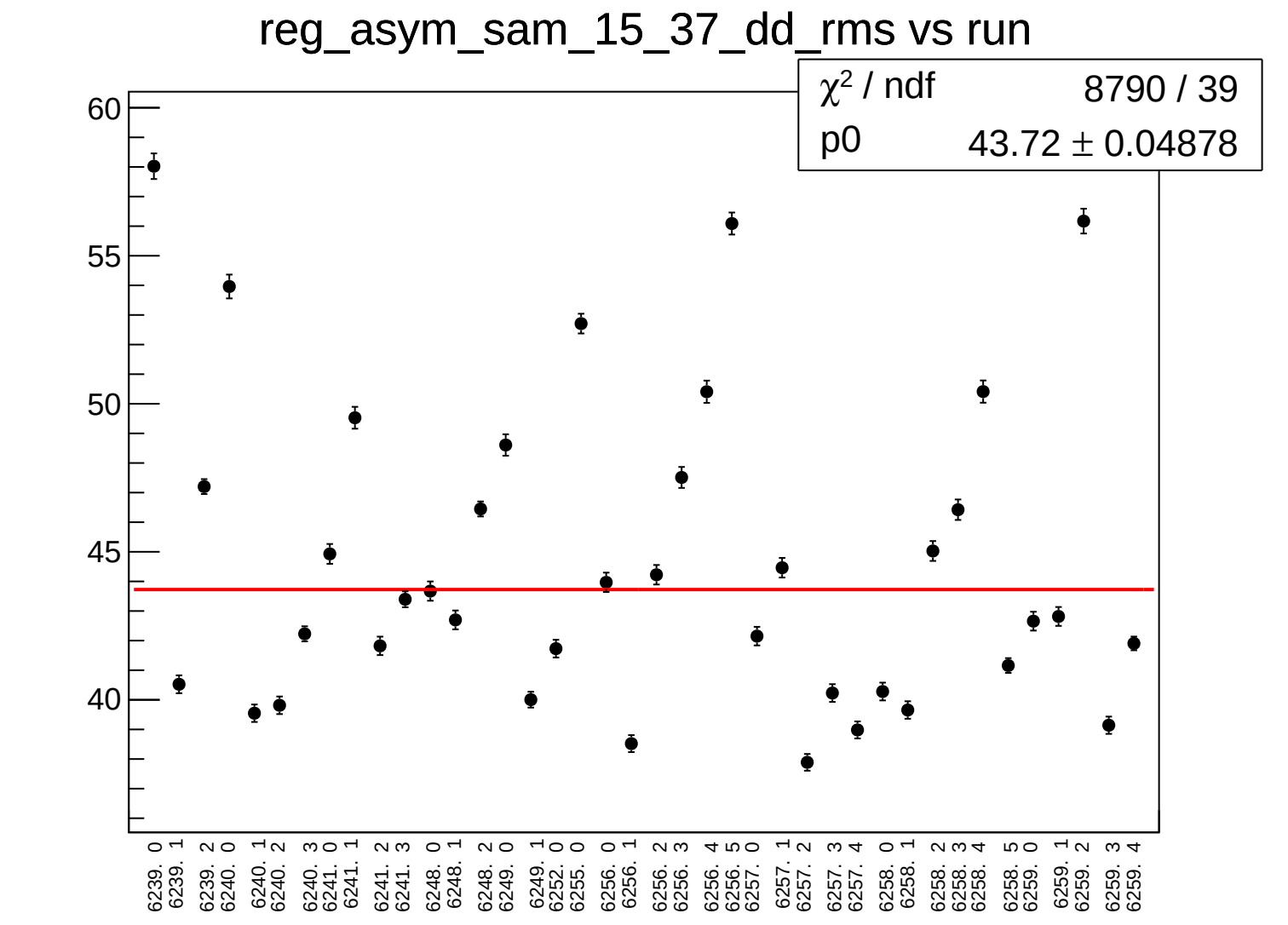

pull1D
Entries 40
Mean −0.01789
Std Dev 0.8326
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

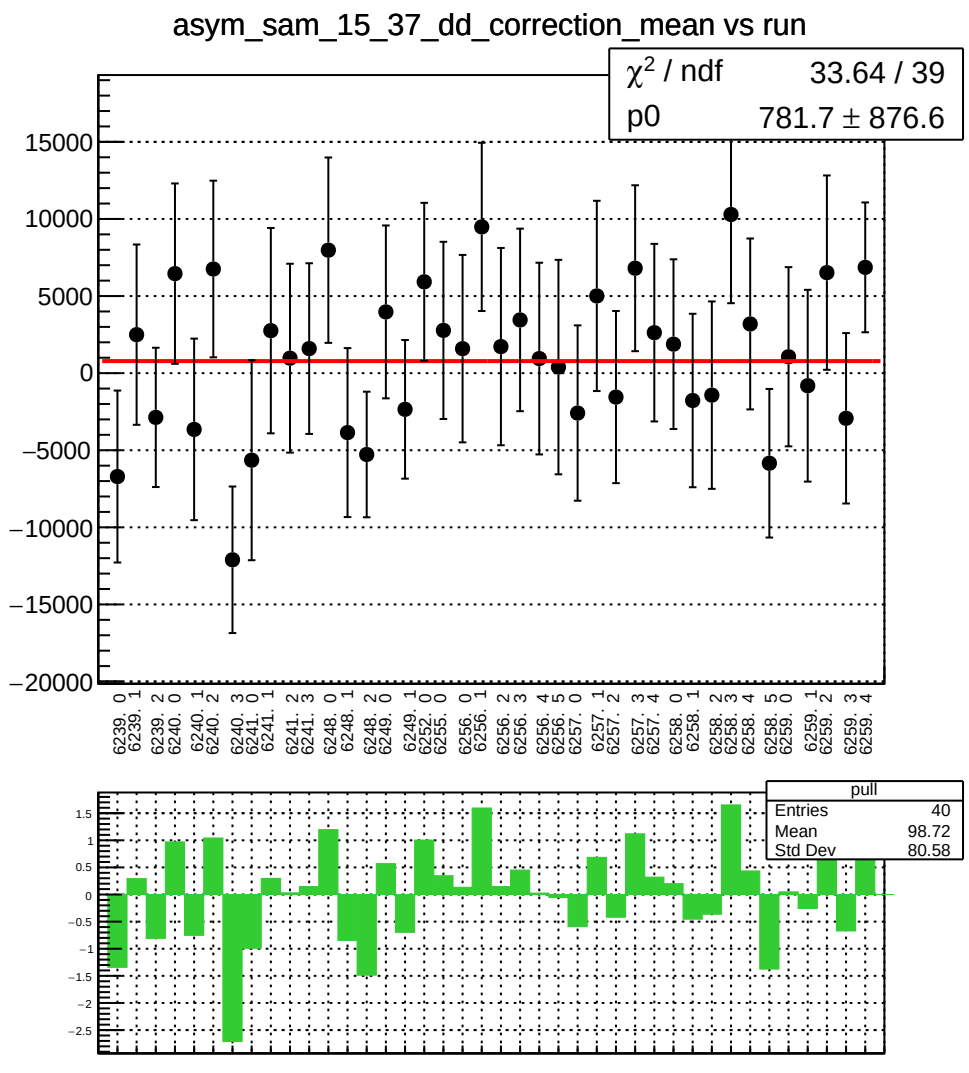

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1529 / 39
p0 588 ± 0.6531
700
680
660
640
620
600
580
560
540
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

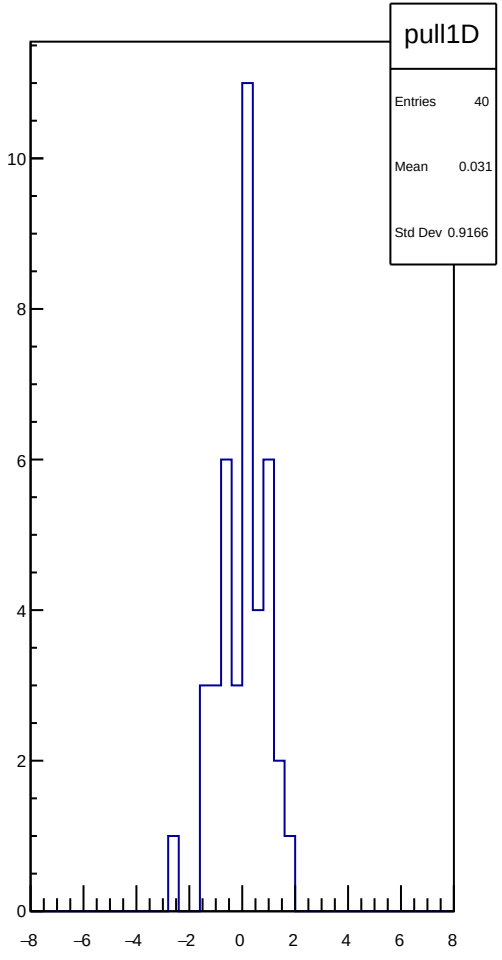

asym_sam_13_57_dd_mean vs run
χ² / ndf 26.56 / 39
p0 559.4 ± 927.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 149.5
Std Dev 132.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.01596
Std Dev 0.8147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

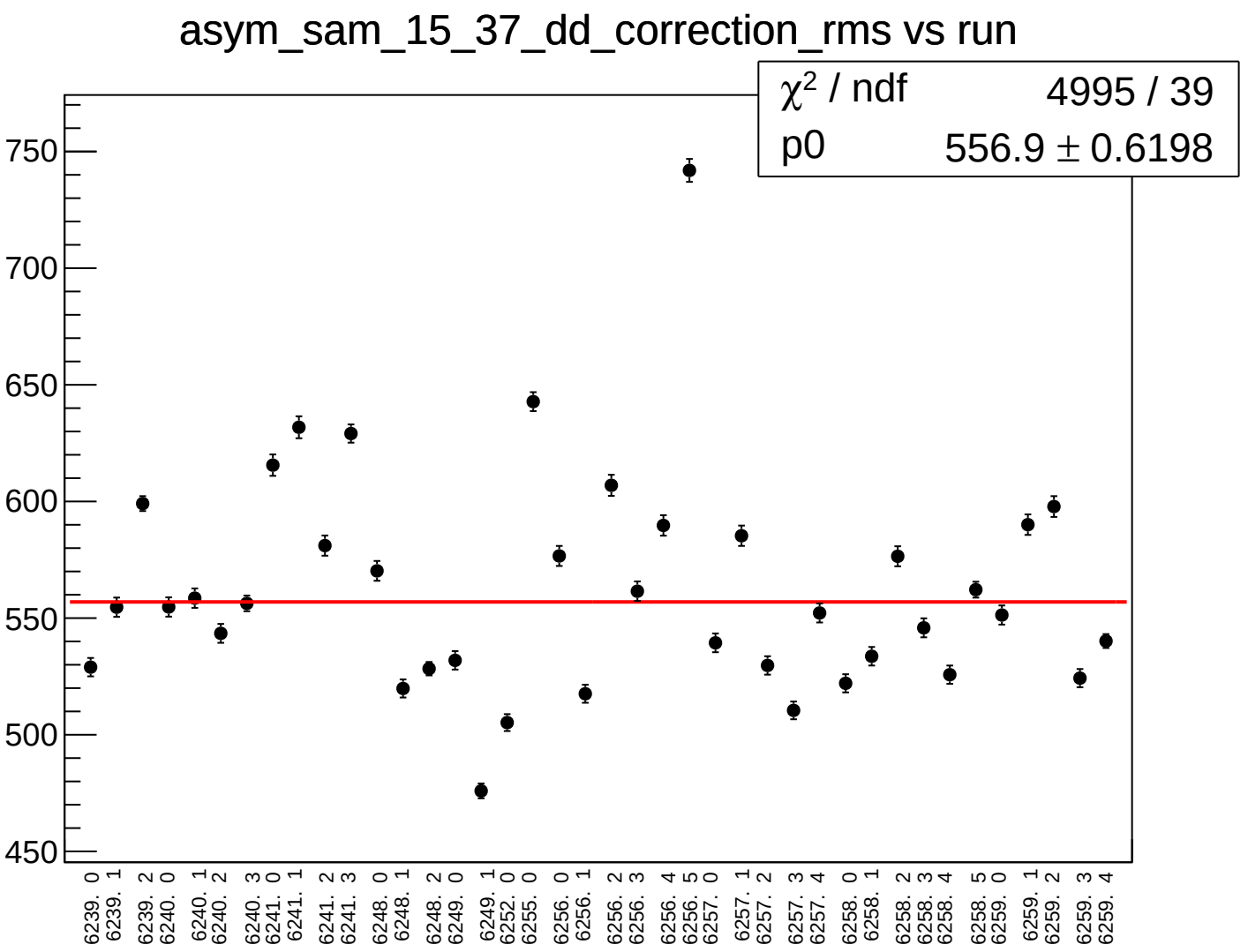

asym_sam_13_57_dd_rms vs run
χ² / ndf 1517 / 39
p0 590.4 ± 0.6557
700
680
660
640
620
600
580
560
540
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

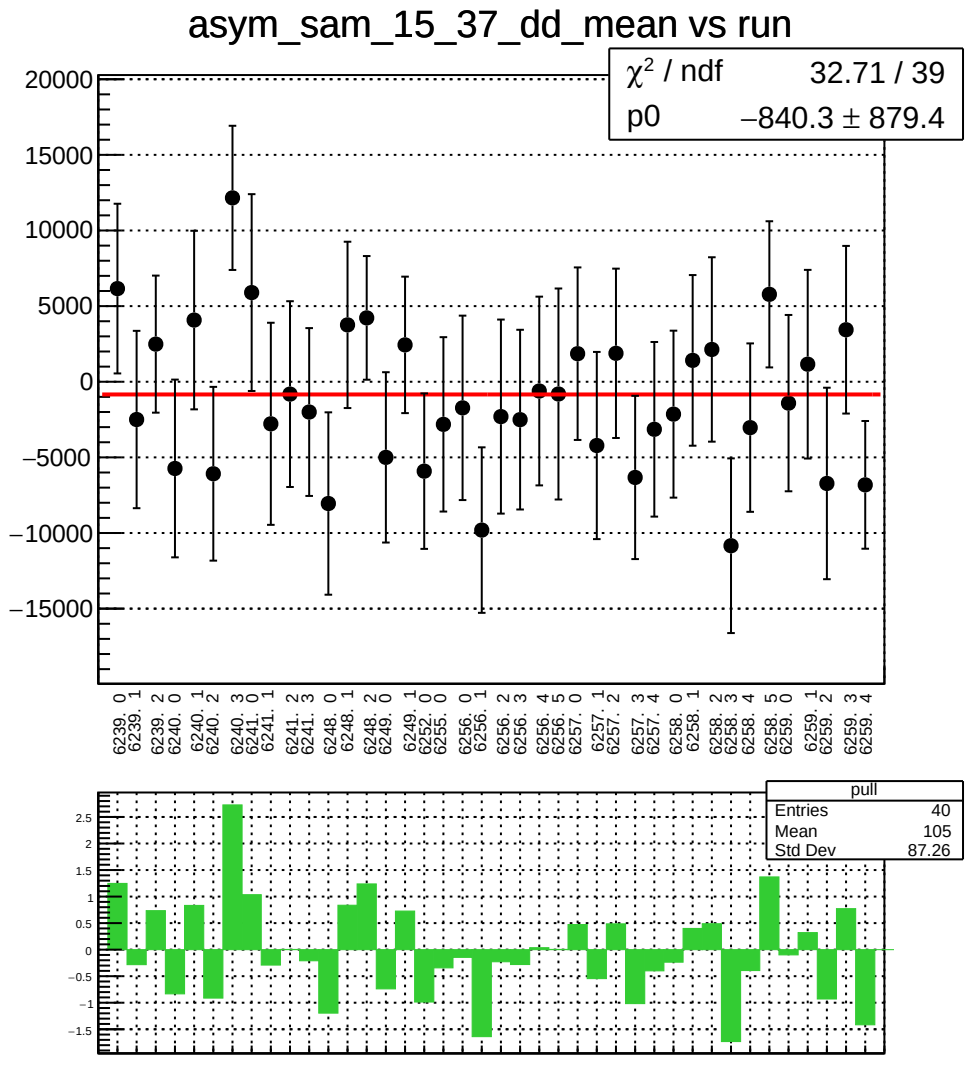

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 44.77 / 39
p0 −43.74 ± 68.98
1500
1000
500
0
−500
−1000
−1500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 50.05
Std Dev 17.26
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean 0.01939
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

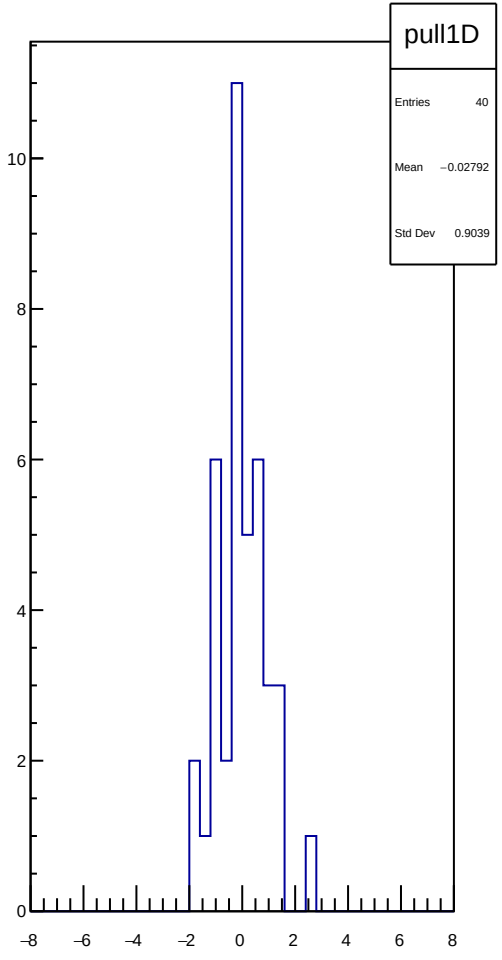

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 8790 / 39
p0 43.72 ± 0.04878
60
55
50
45
40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

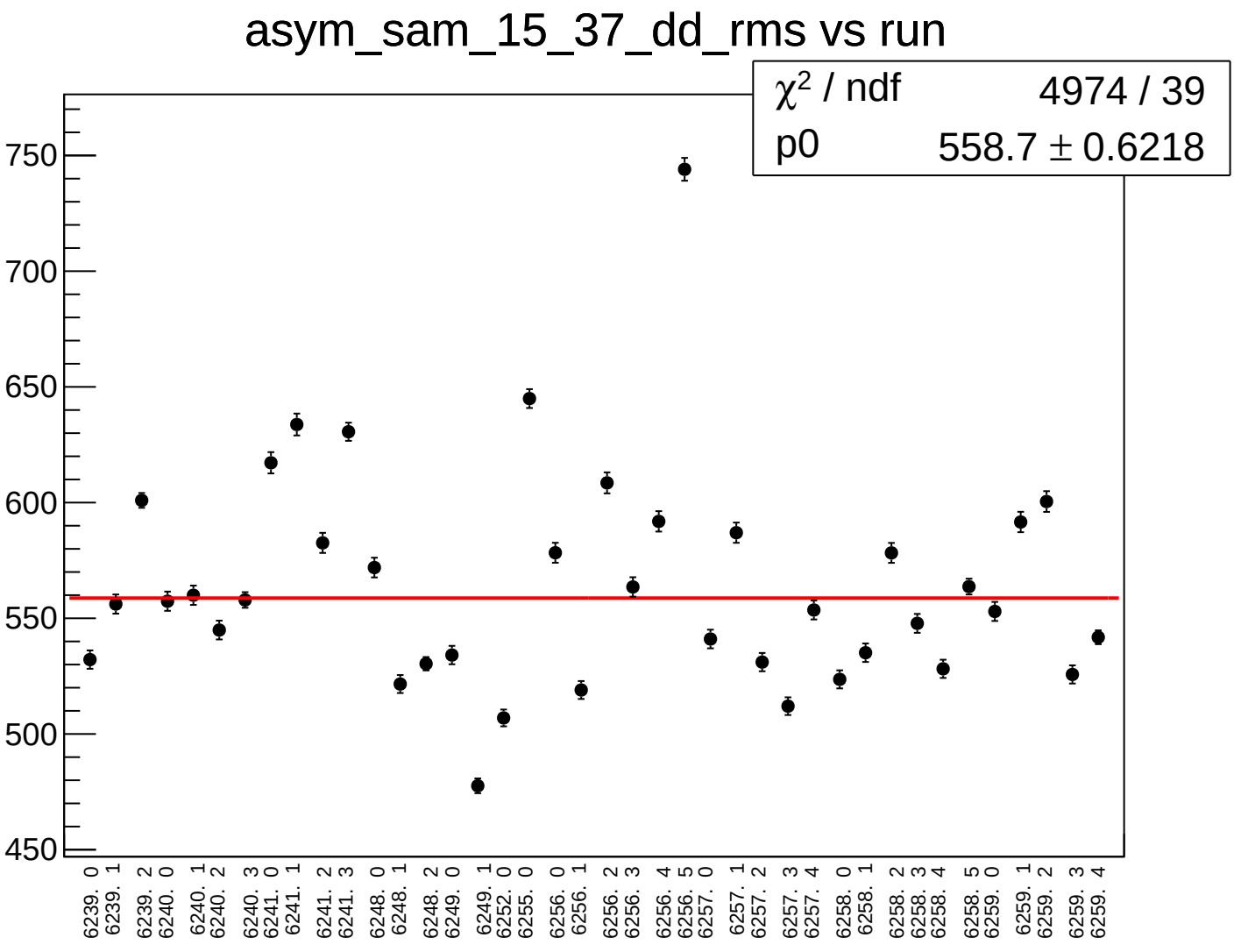

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 33.64 / 39
p0 781.7 ± 876.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 98.72
Std Dev 80.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

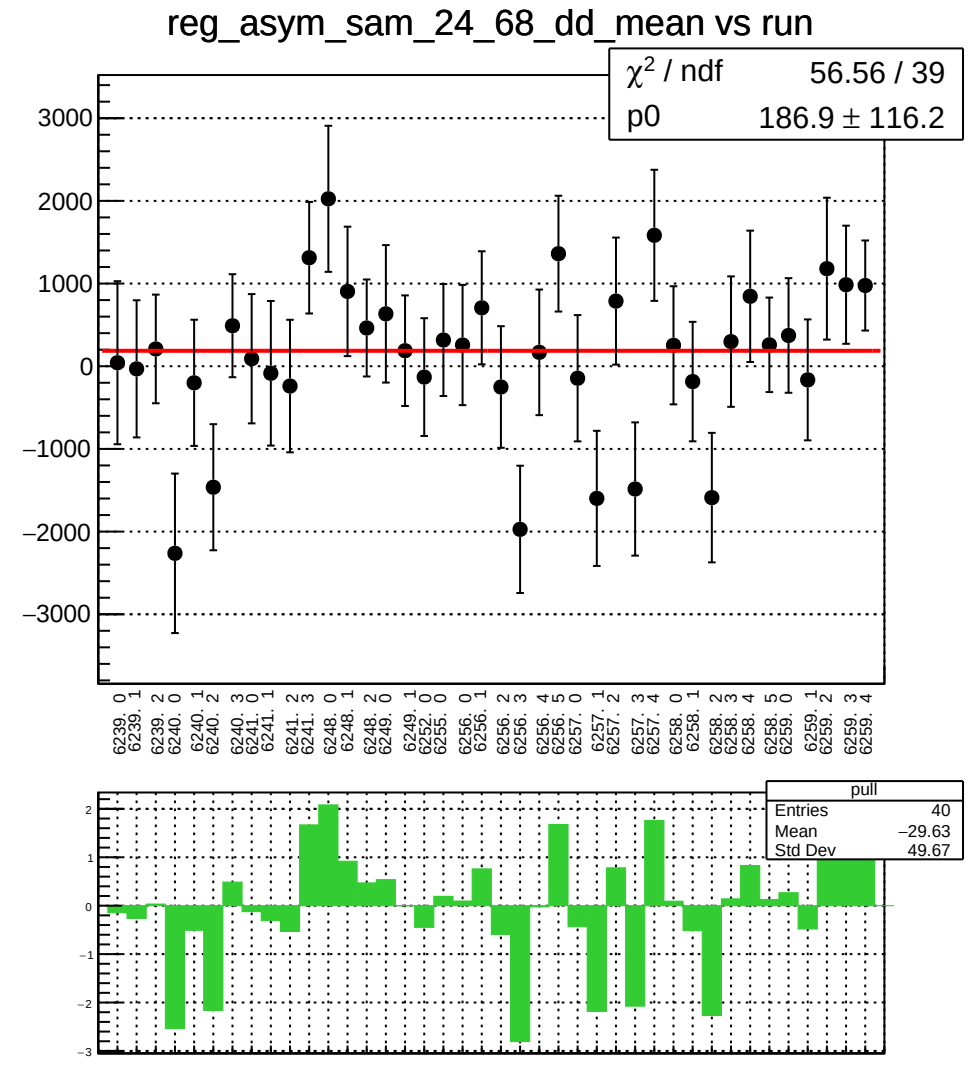

pull1D
Entries 40
Mean 0.031
Std Dev 0.9166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

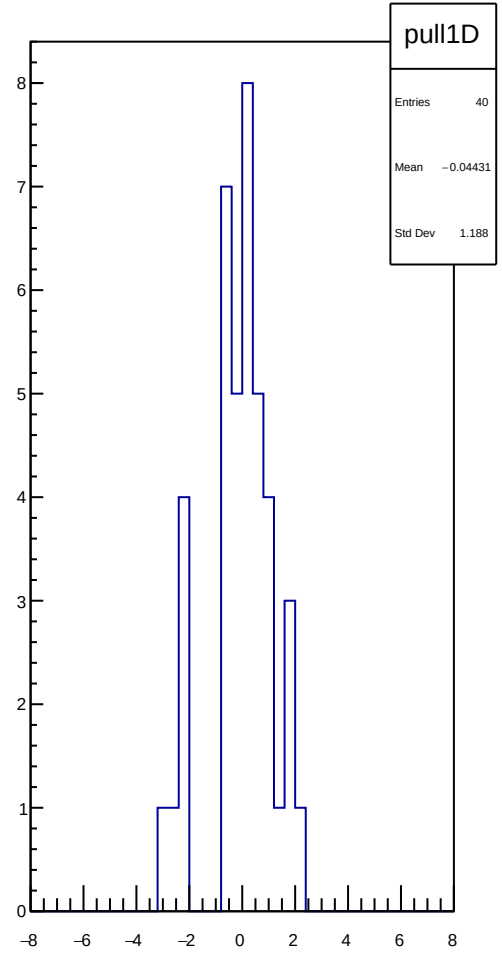

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 4995 / 39
p0 556.9 ± 0.6198
750
700
650
600
550
500
450
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

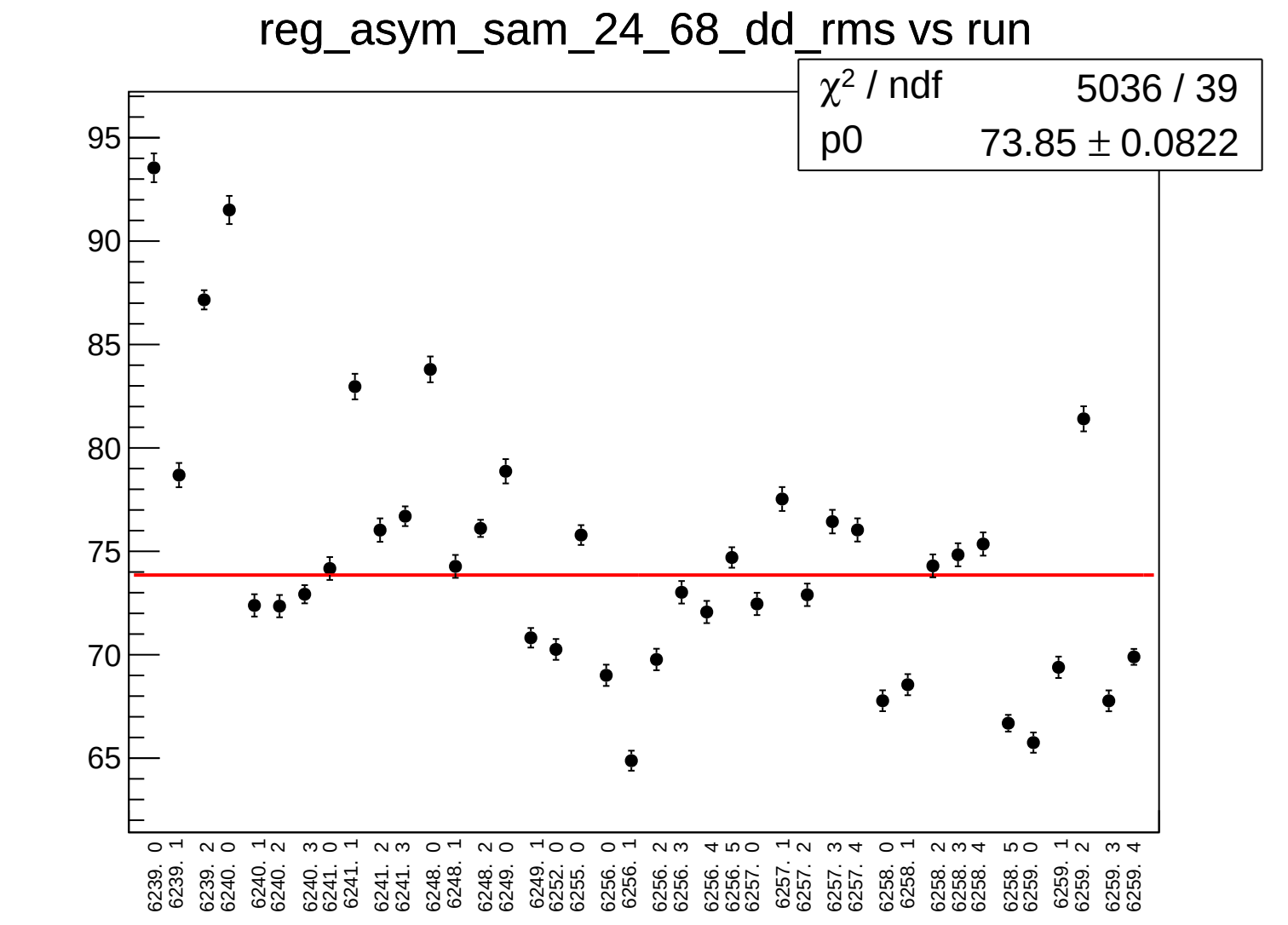

asym_sam_15_37_dd_mean vs run
χ² / ndf 32.71 / 39
p0 −840.3 ± 879.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 105
Std Dev 87.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

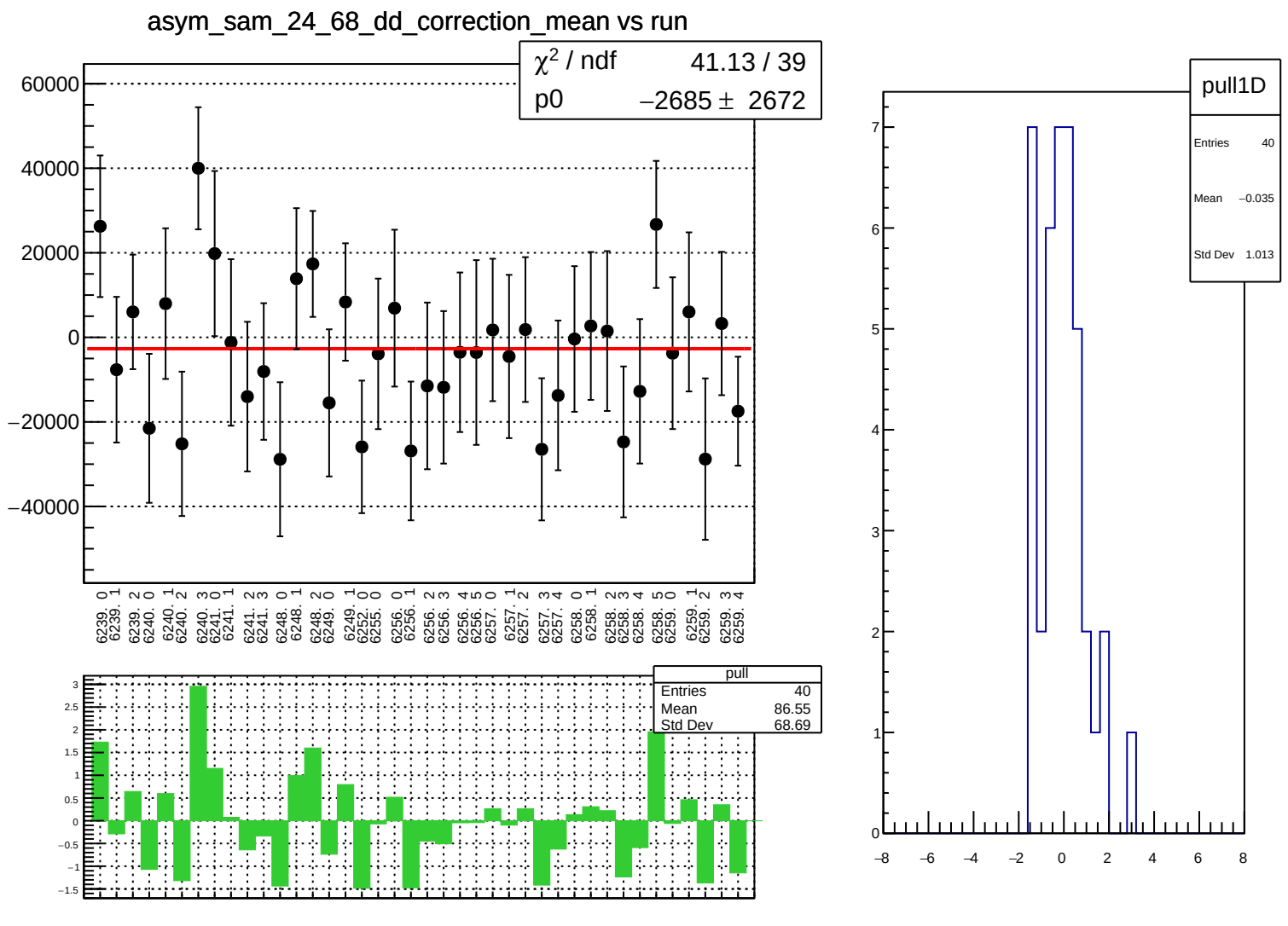

pull1D
Entries 40
Mean −0.02792
Std Dev 0.9039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

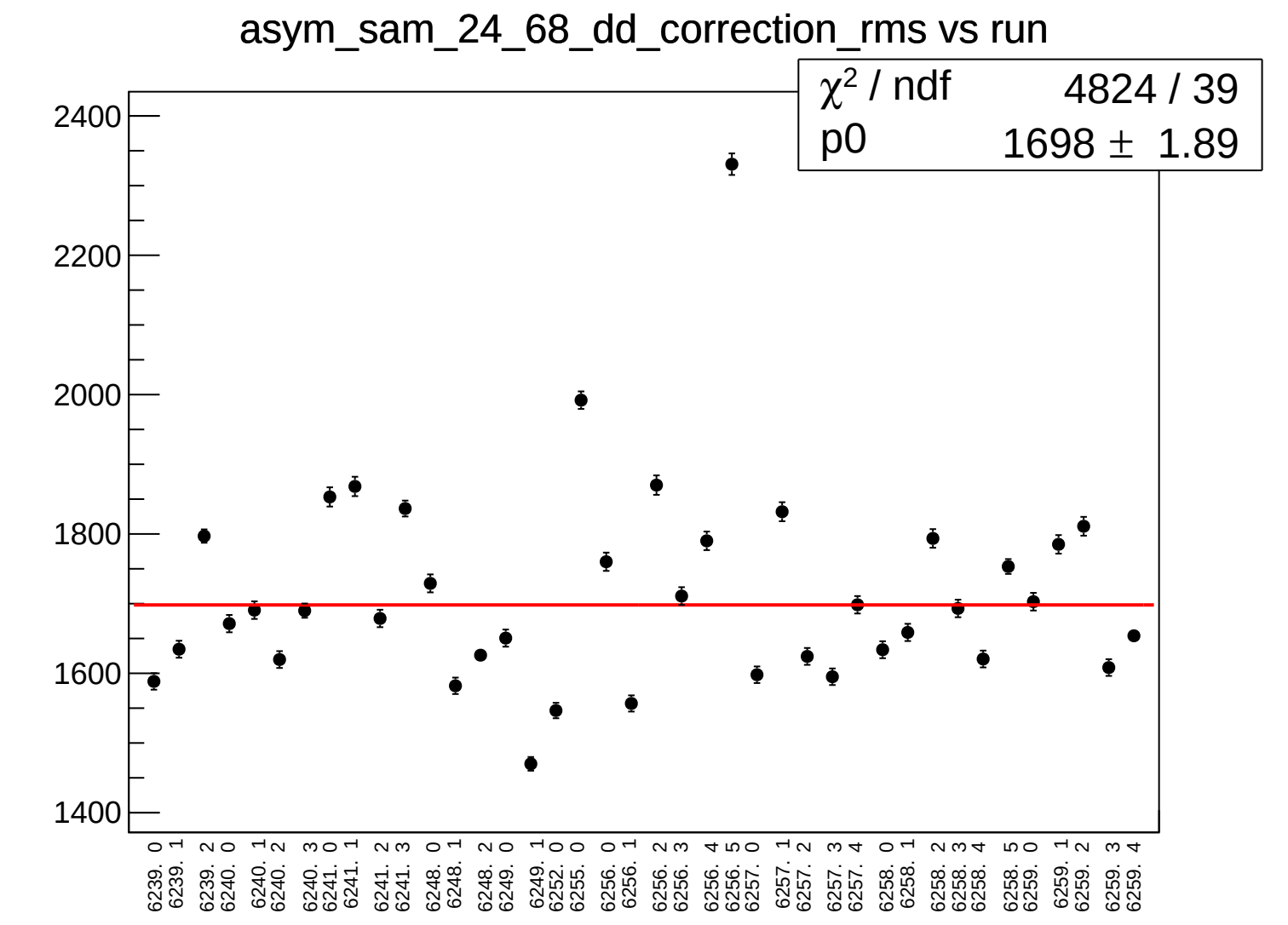

asym_sam_15_37_dd_rms vs run
χ² / ndf 4974 / 39
p0 558.7 ± 0.6218
750
700
650
600
550
500
450
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

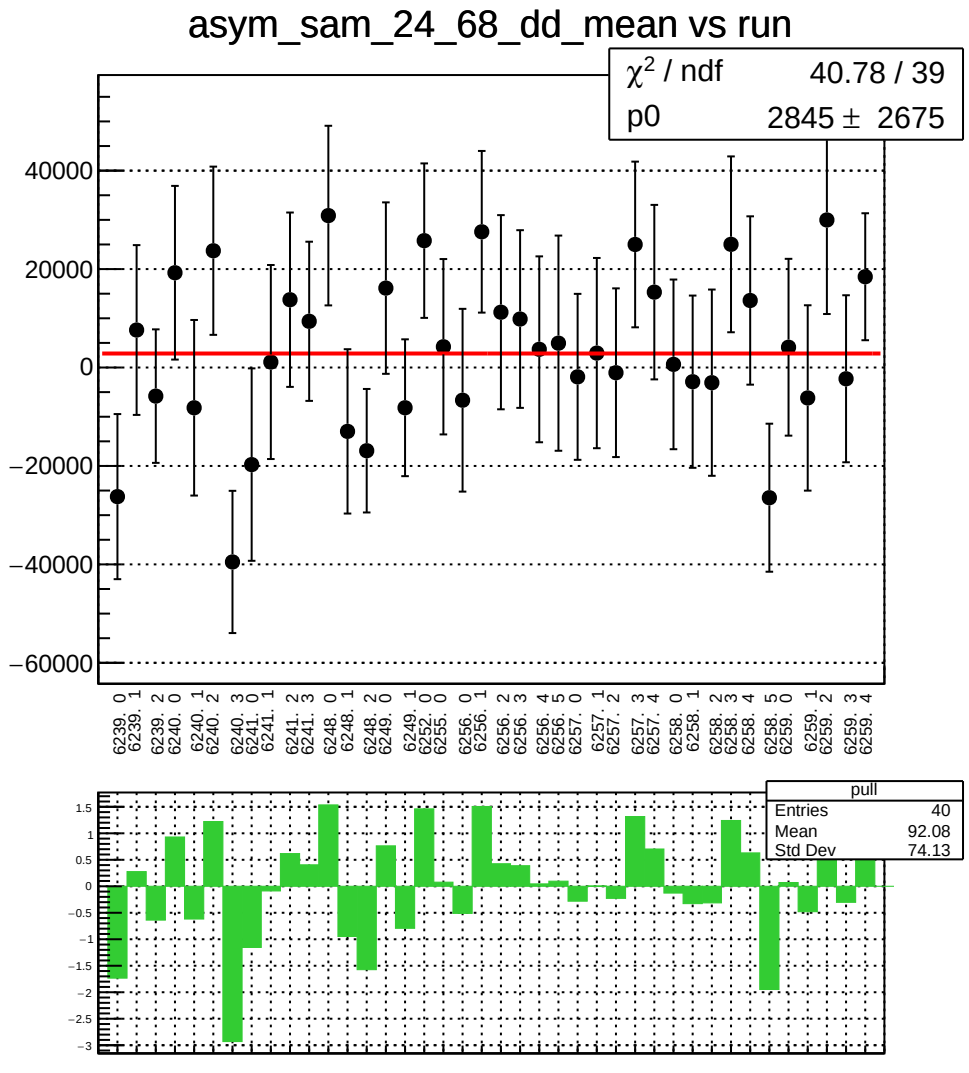

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 56.56 / 39
p0 186.9 ± 116.2
3000
2000
1000
0
−1000
−2000
−3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −29.63
Std Dev 49.67
2
1
0
−1
−2
−3

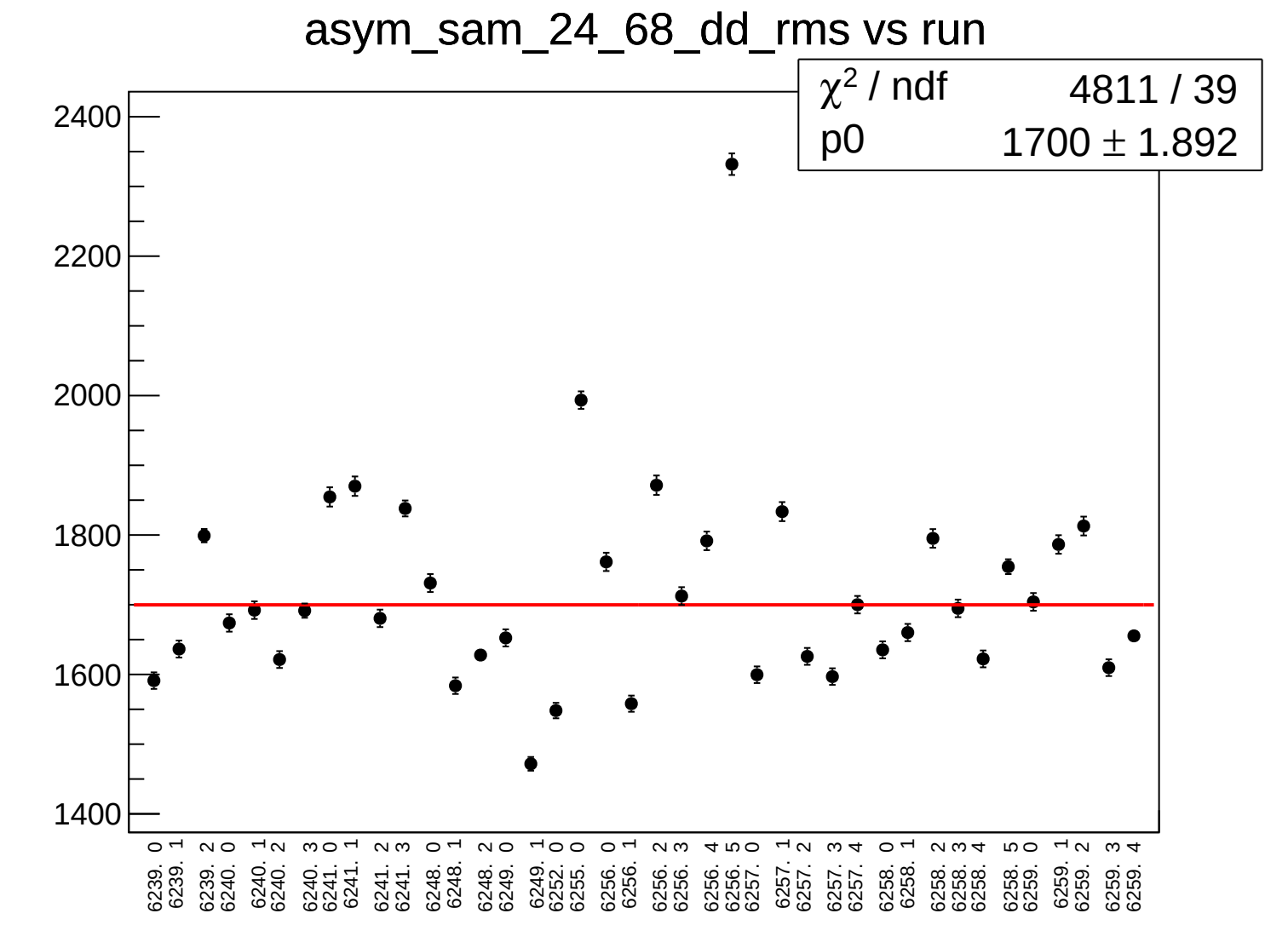

pull1D
Entries 40
Mean −0.04431
Std Dev 1.188
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

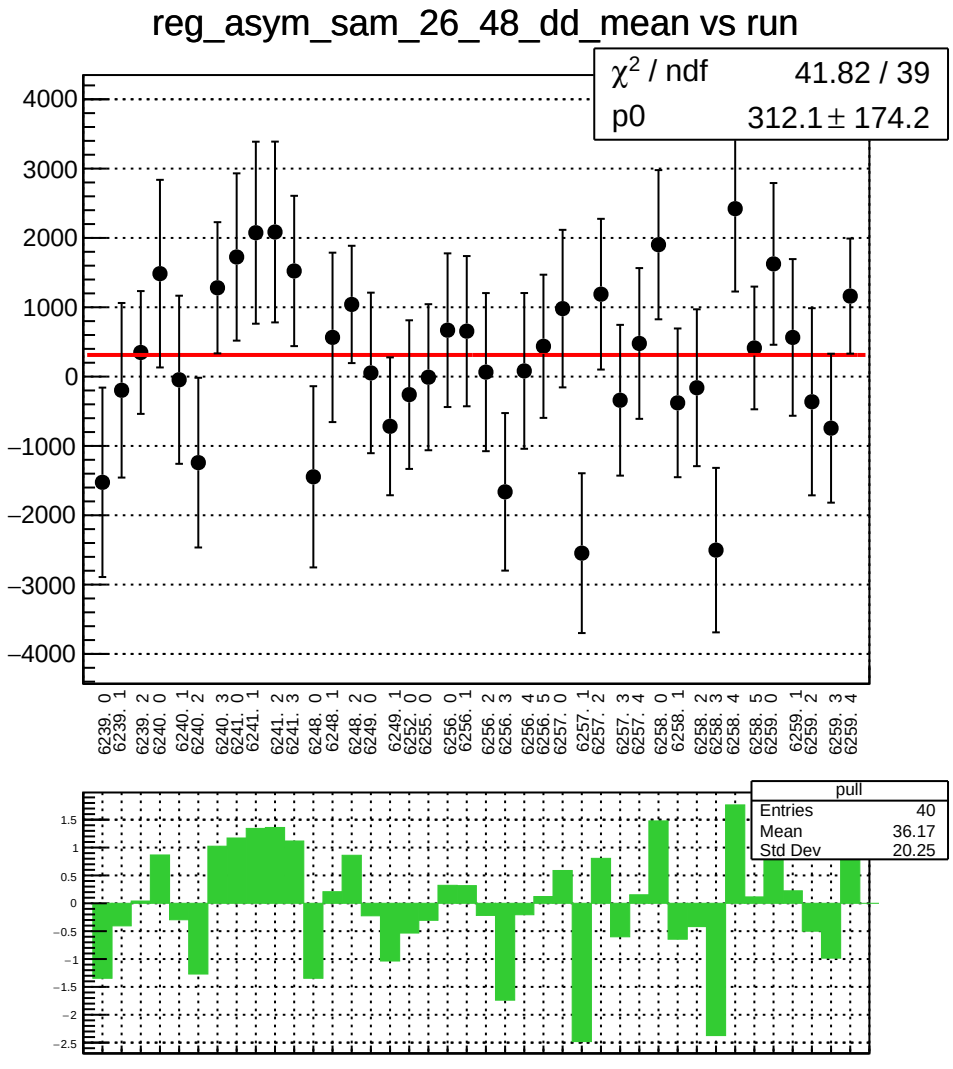

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5036 / 39
p0 73.85 ± 0.0822
95
90
85
80
75
70
65
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

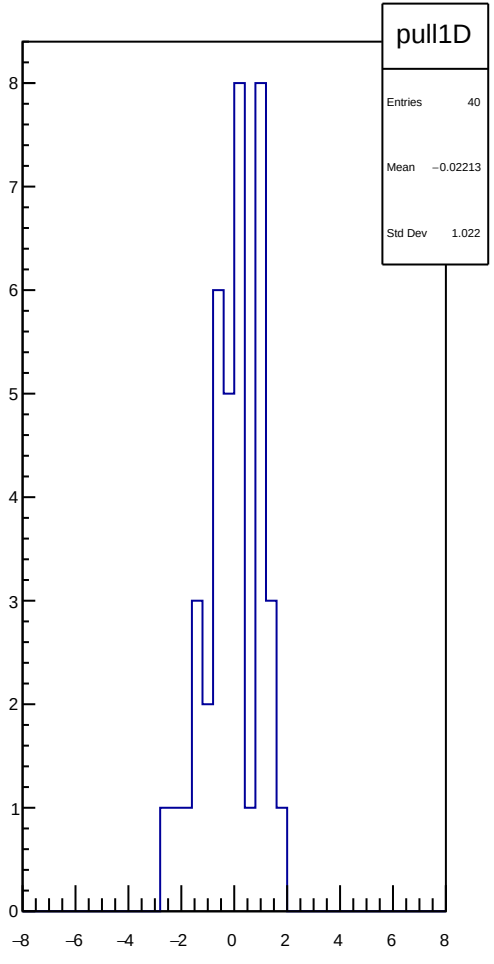

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 41.13 / 39
p0 −2685 ± 2672
60000
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 86.55
Std Dev 68.69
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.035
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

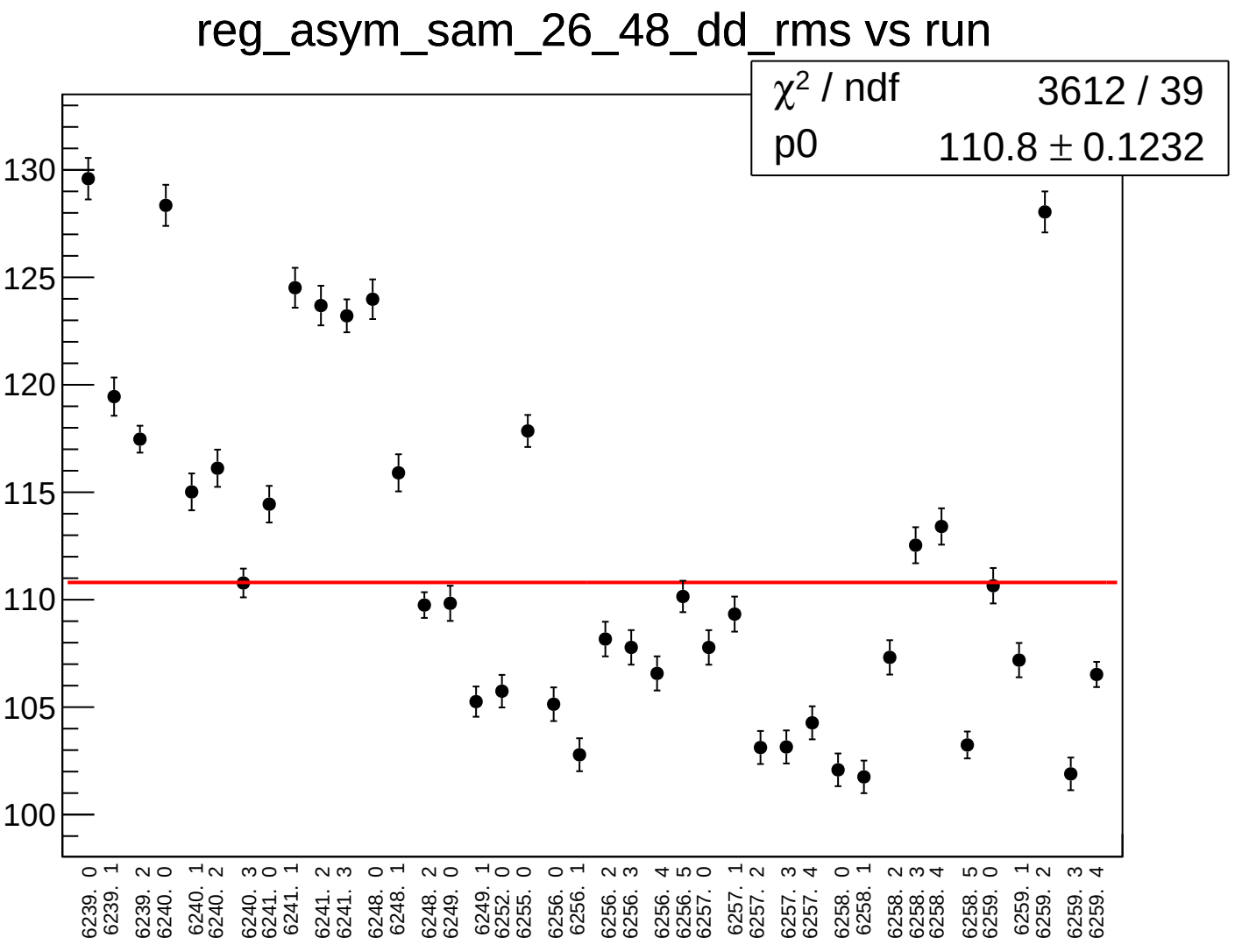

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 4824 / 39
p0 1698 ± 1.89
2400
2200
2000
1800
1600
1400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

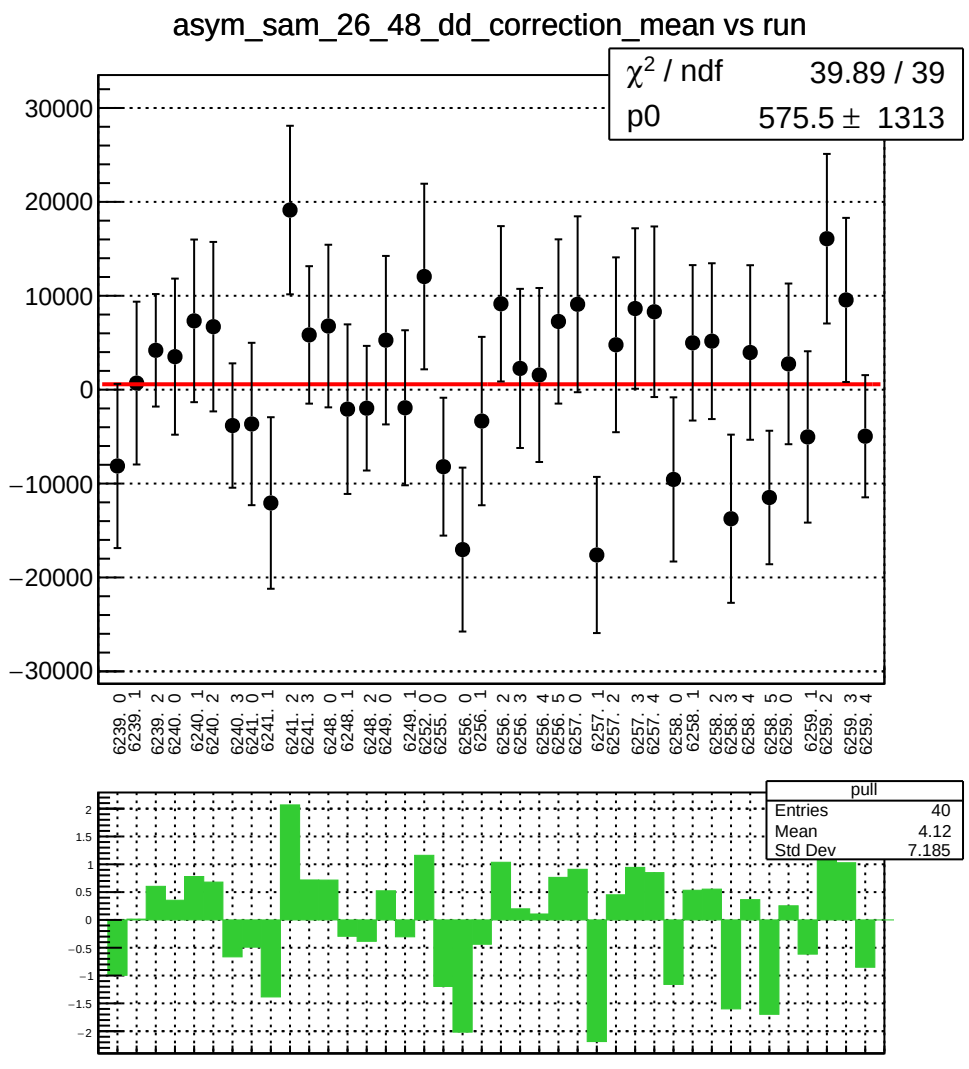

asym_sam_24_68_dd_mean vs run
χ² / ndf 40.78 / 39
p0 2845 ± 2675
40000
20000
0
−20000
−40000
−60000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 92.08
Std Dev 74.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 40
Mean 0.03376
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

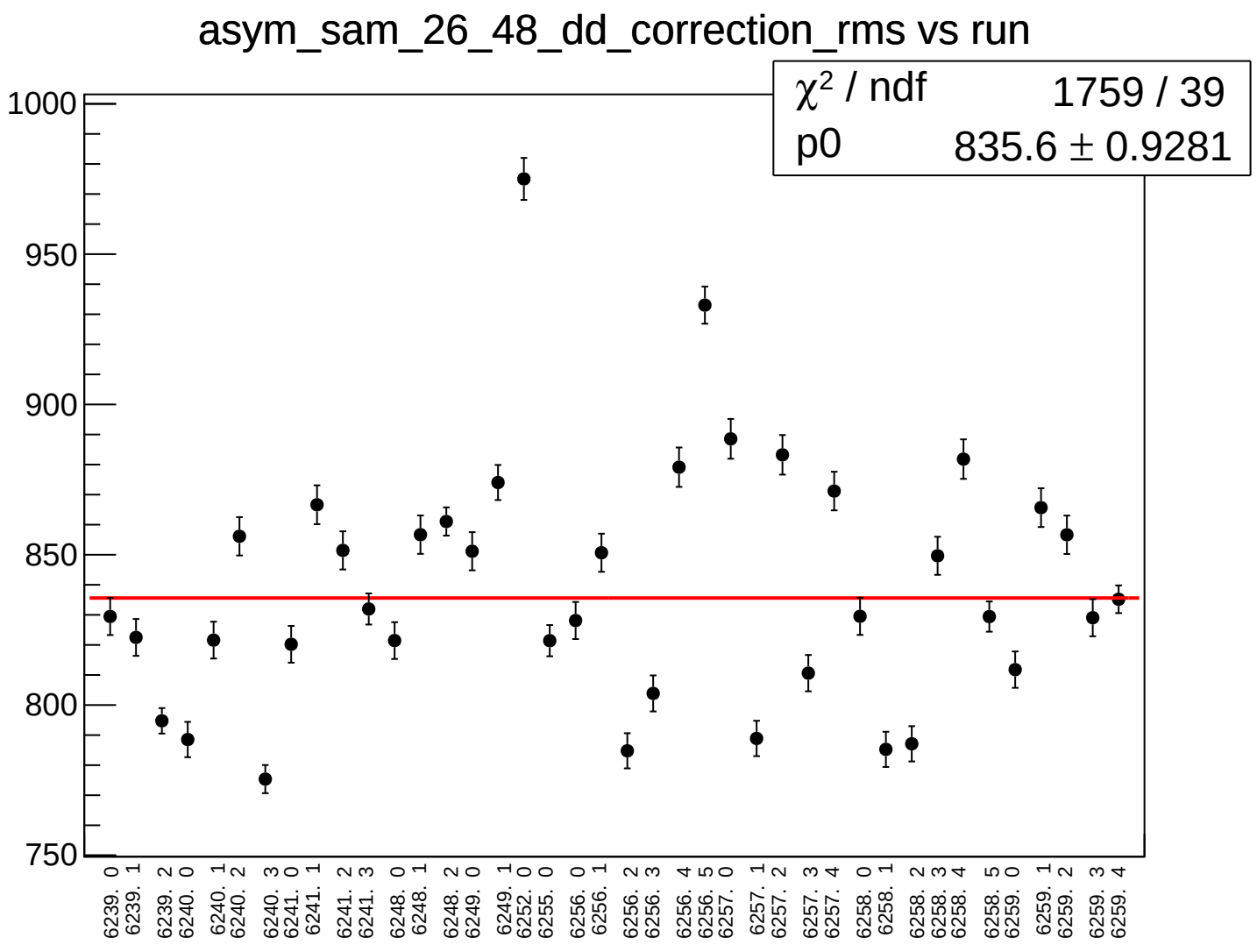

asym_sam_24_68_dd_rms vs run
χ² / ndf 4811 / 39
p0 1700 ± 1.892
2400
2200
2000
1800
1600
1400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

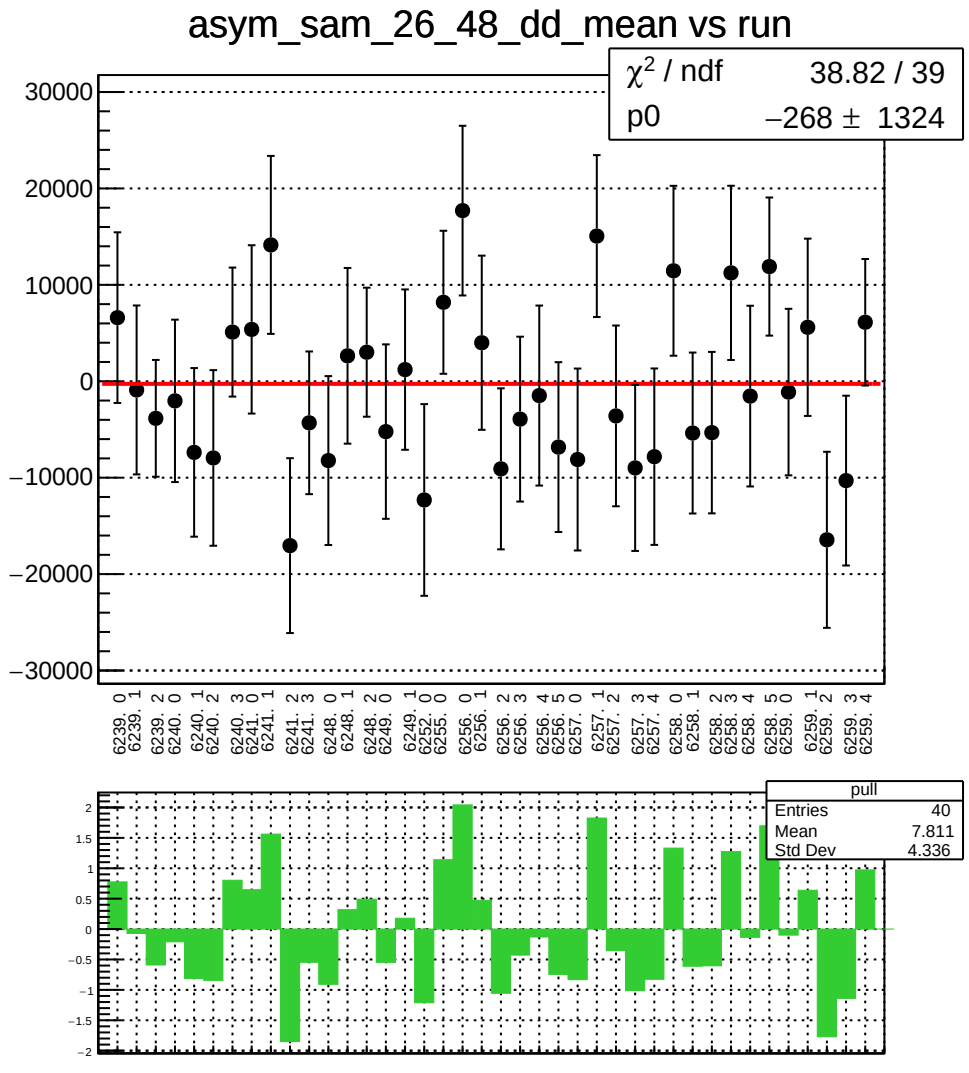

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 41.82 / 39
p0 312.1 ± 174.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 36.17
Std Dev 20.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

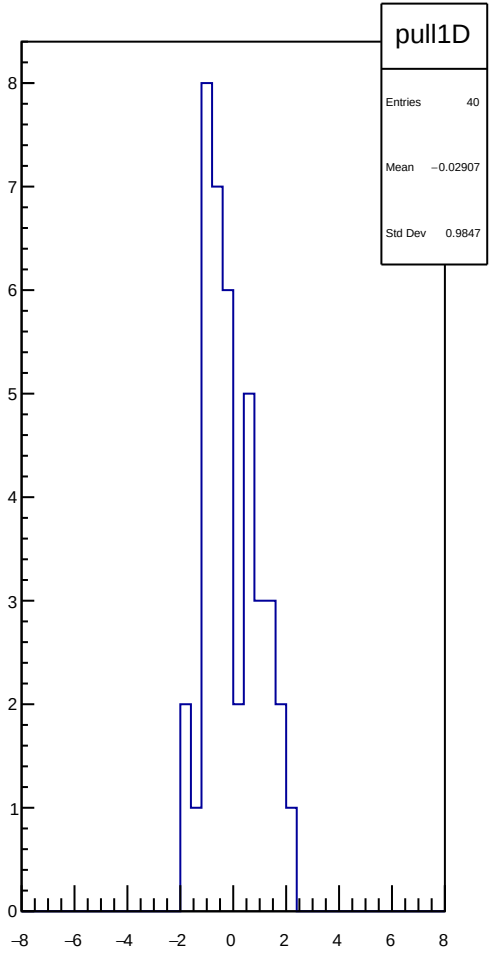

pull1D
Entries 40
Mean −0.02213
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

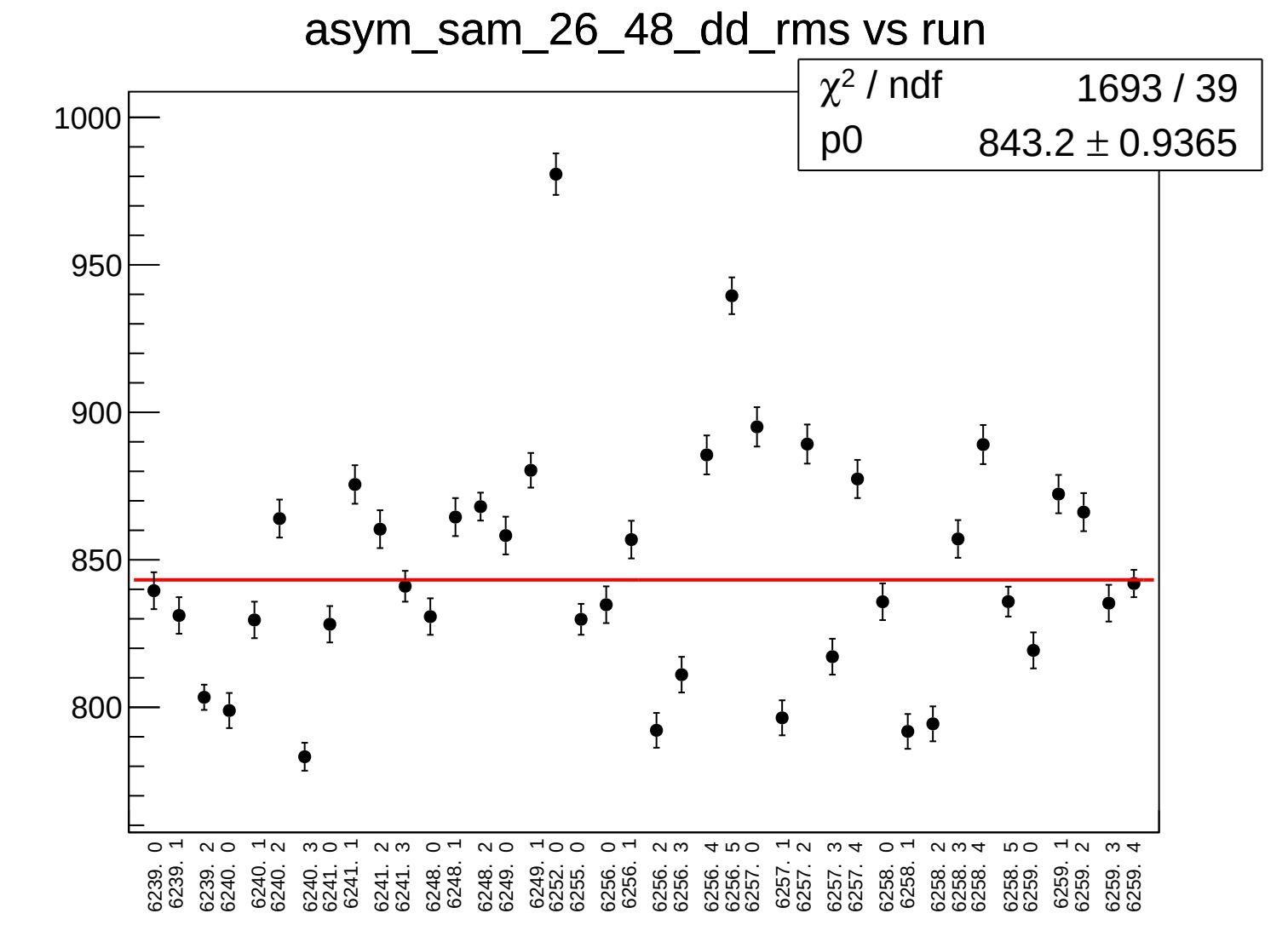

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3612 / 39
p0 110.8 ± 0.1232
130
125
120
115
110
105
100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

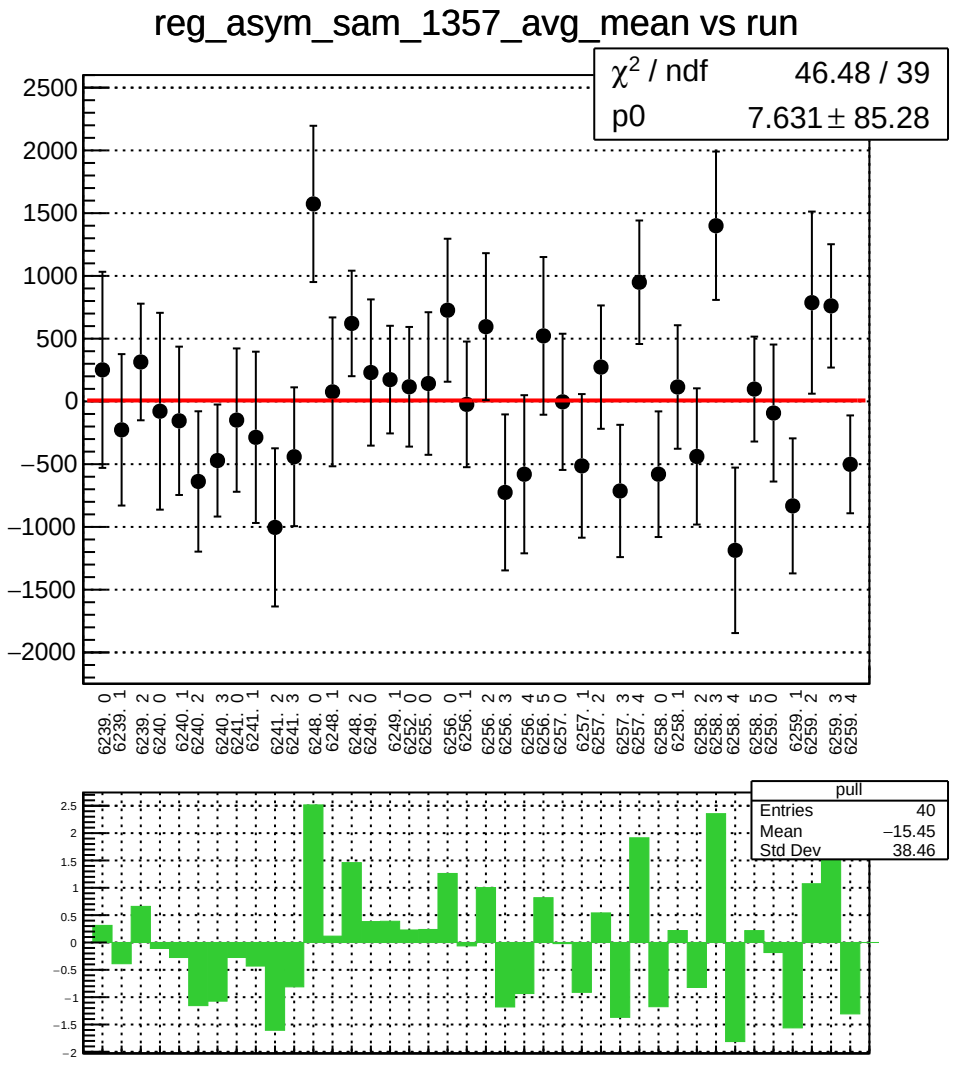

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 39.89 / 39
p0 575.5 ± 1313
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 4.12
Std Dev 7.185
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.02654
Std Dev 0.9983
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

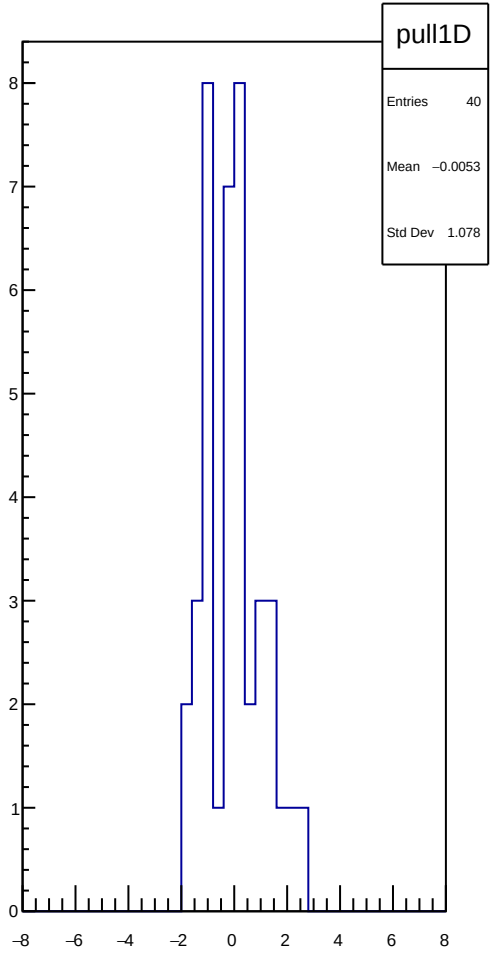

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1759 / 39
p0 835.6 ± 0.9281
1000
950
900
850
800
750
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

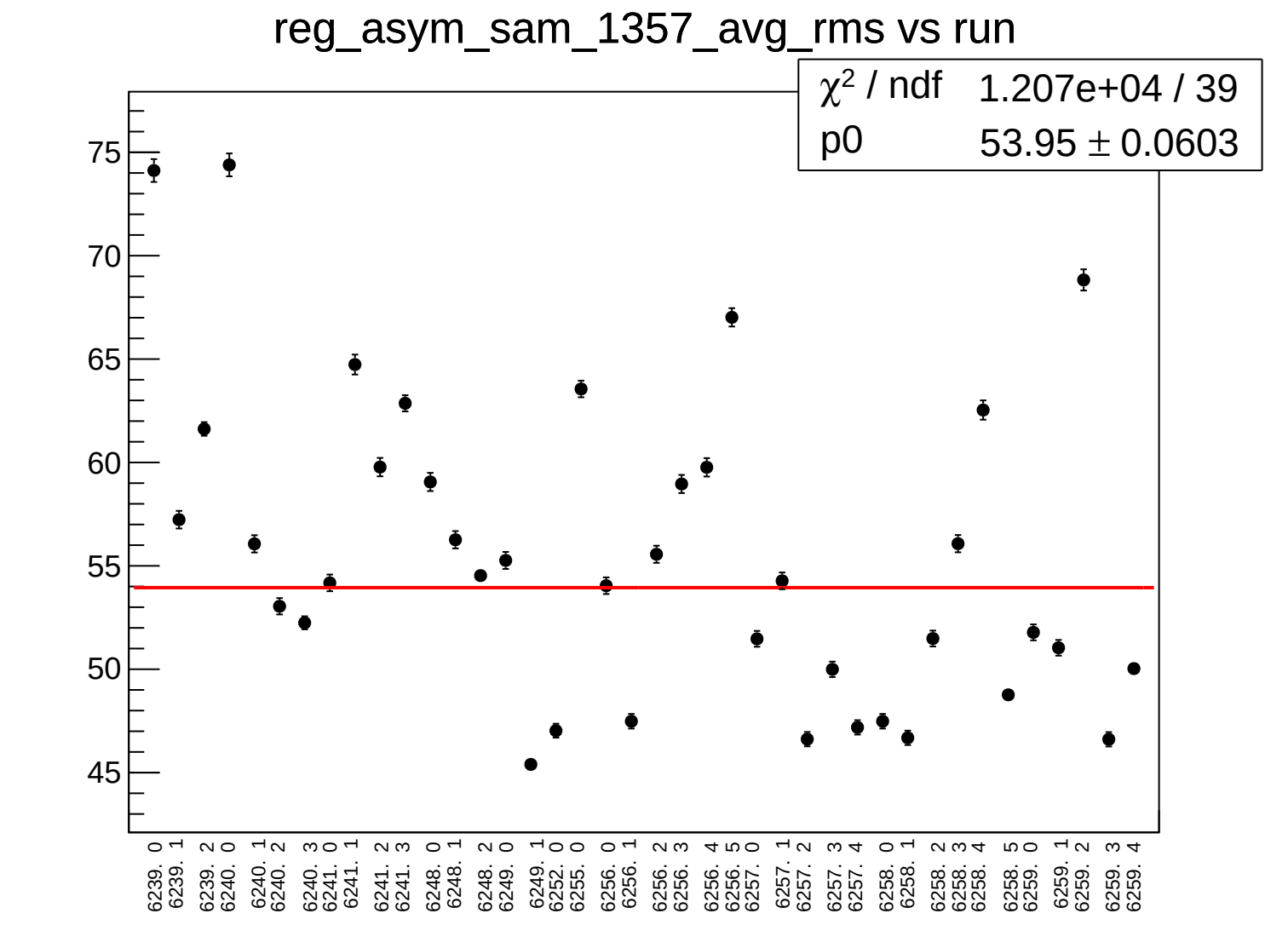

asym_sam_26_48_dd_mean vs run
χ² / ndf 38.82 / 39
p0 −268 ± 1324
30000
20000
10000
0
−10000
−20000
−30000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 7.811
Std Dev 4.336
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

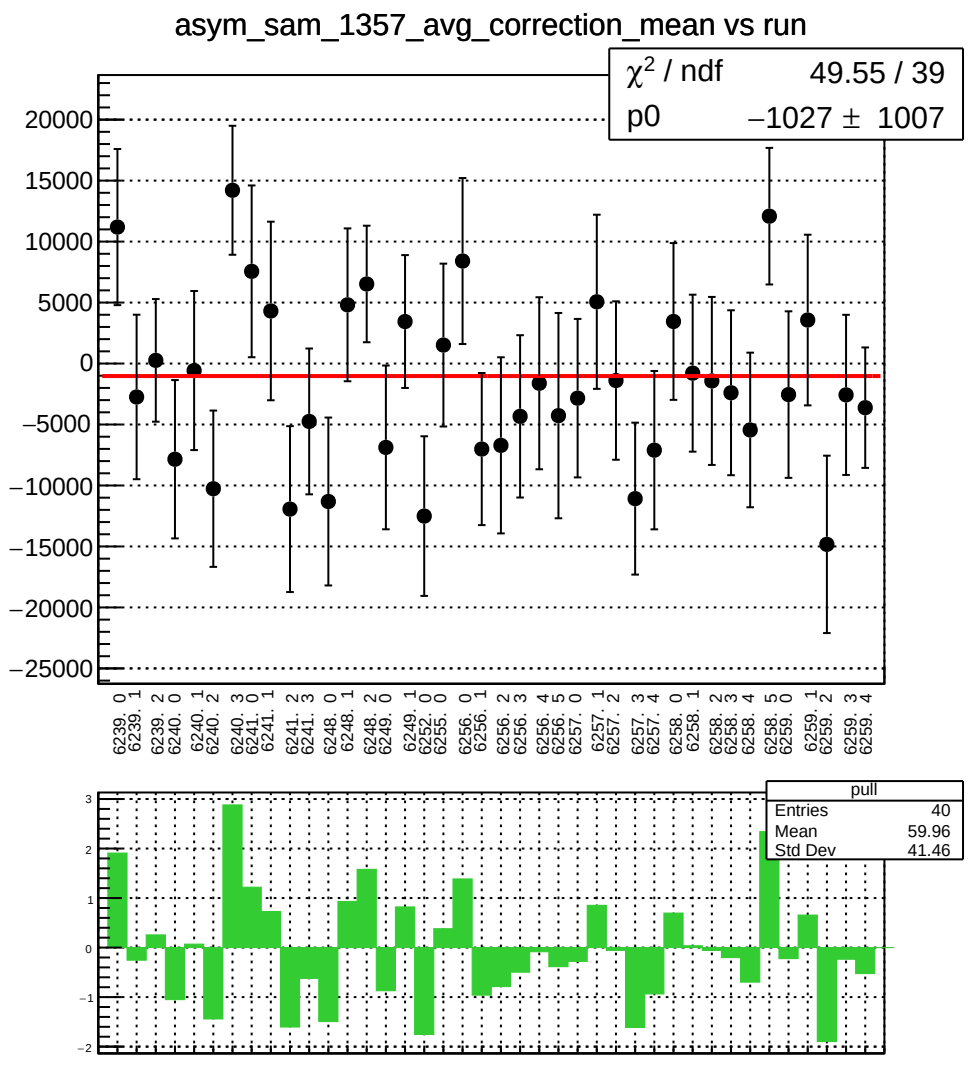

pull1D
Entries 40
Mean −0.02907
Std Dev 0.9847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

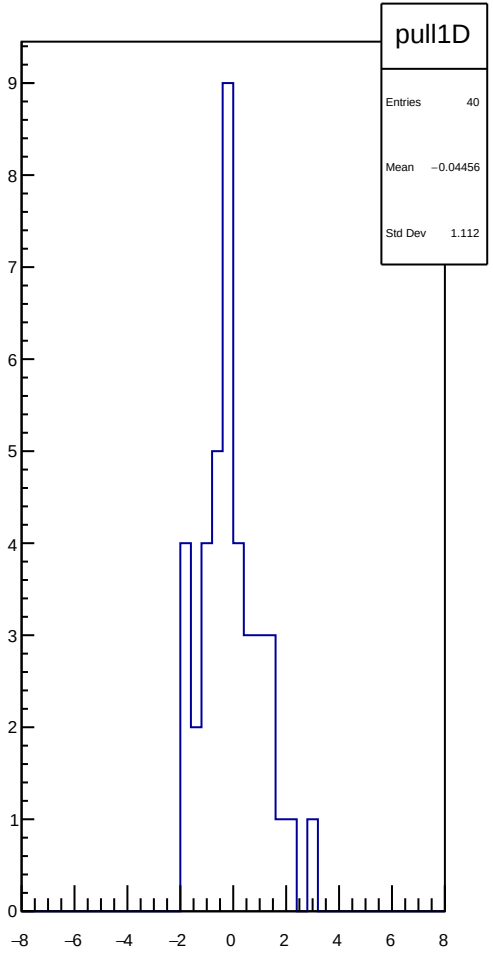

asym_sam_26_48_dd_rms vs run
χ² / ndf 1693 / 39
p0 843.2 ± 0.9365
1000
950
900
850
800
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

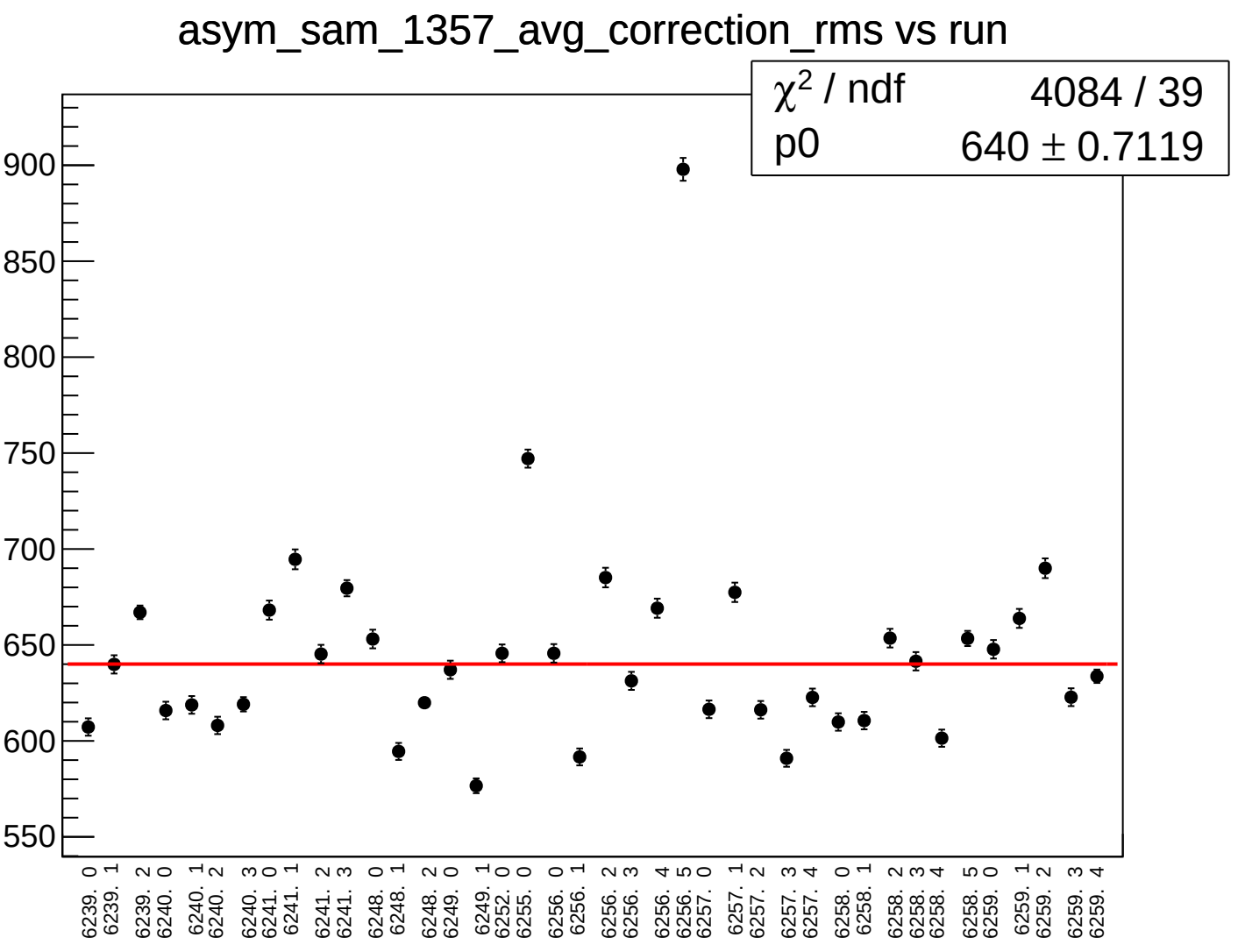

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 46.48 / 39
p0 7.631 ± 85.28
pull
Entries 40
Mean −15.45
Std Dev 38.46

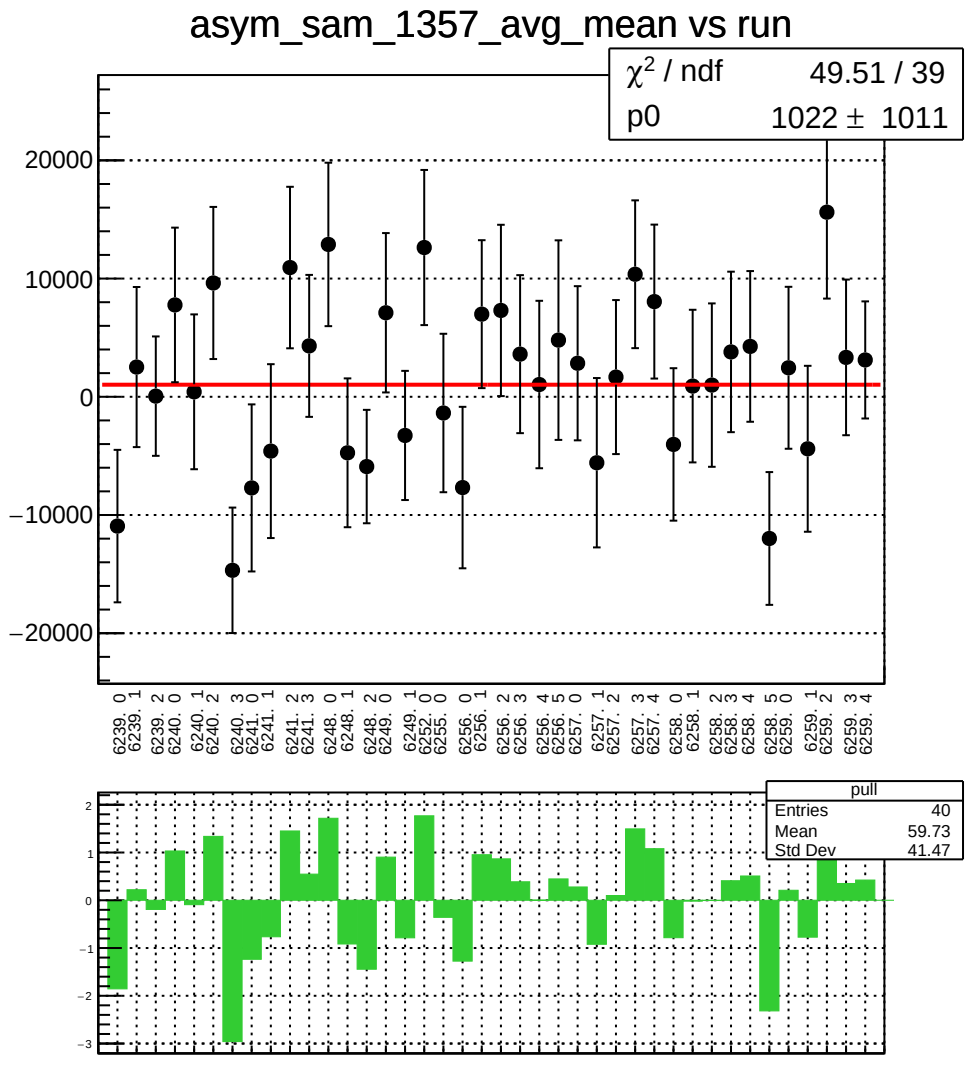

pull1D
Entries 40
Mean −0.0053
Std Dev 1.078

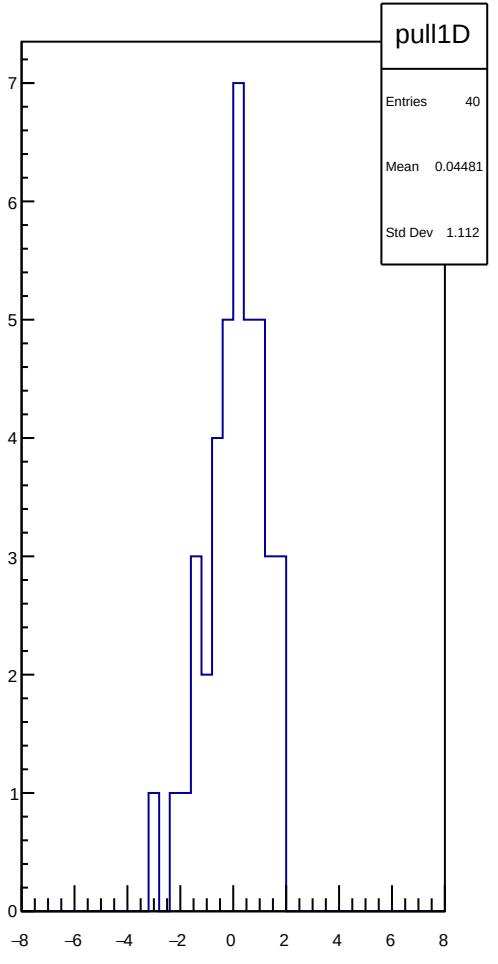

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.207e+04 / 39
p0 53.95 ± 0.0603
75
70
65
60
55
50
45
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

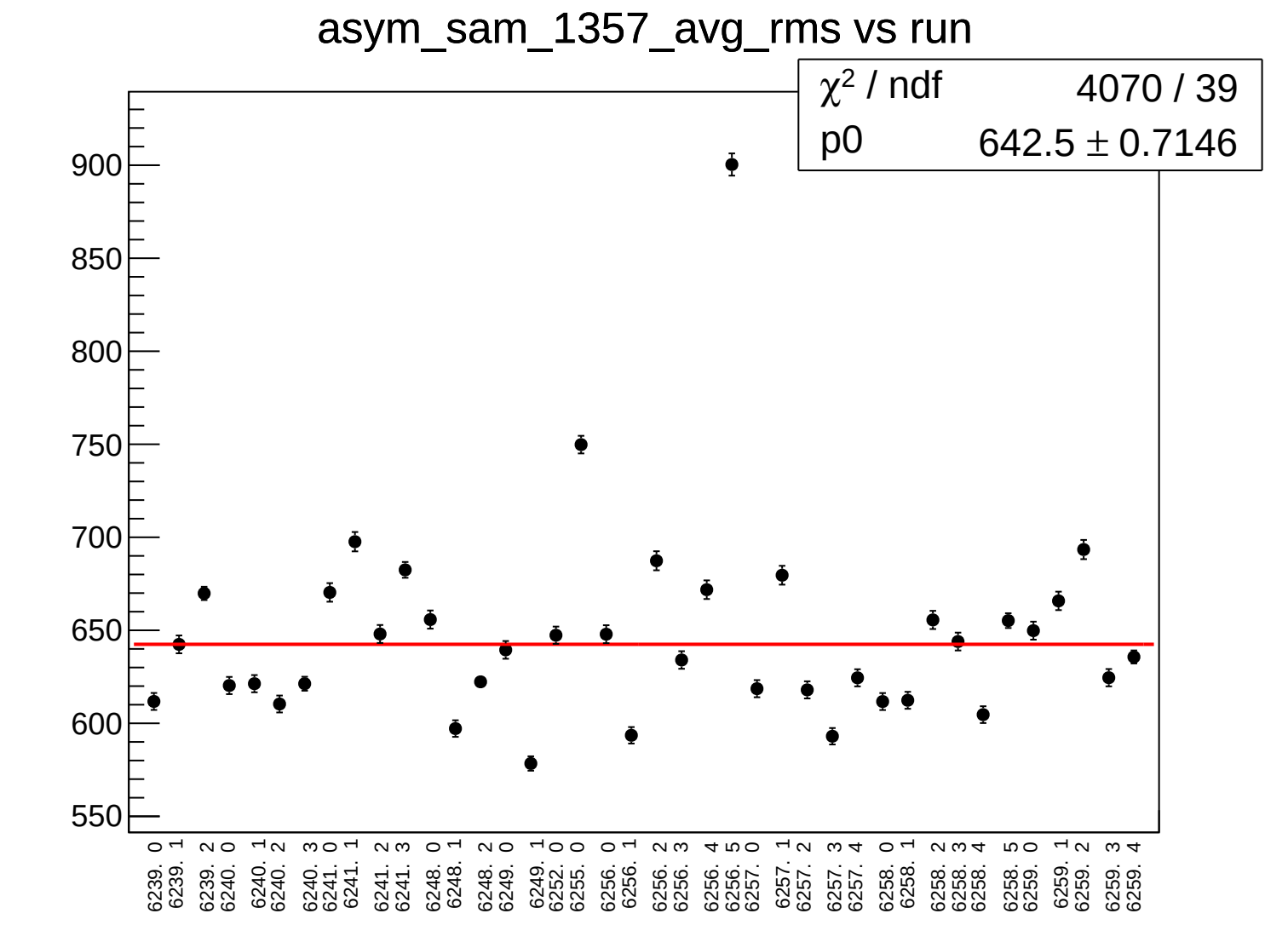

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 49.55 / 39
p0 −1027 ± 1007
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 59.96
Std Dev 41.46
3
2
1
0
−1
−2

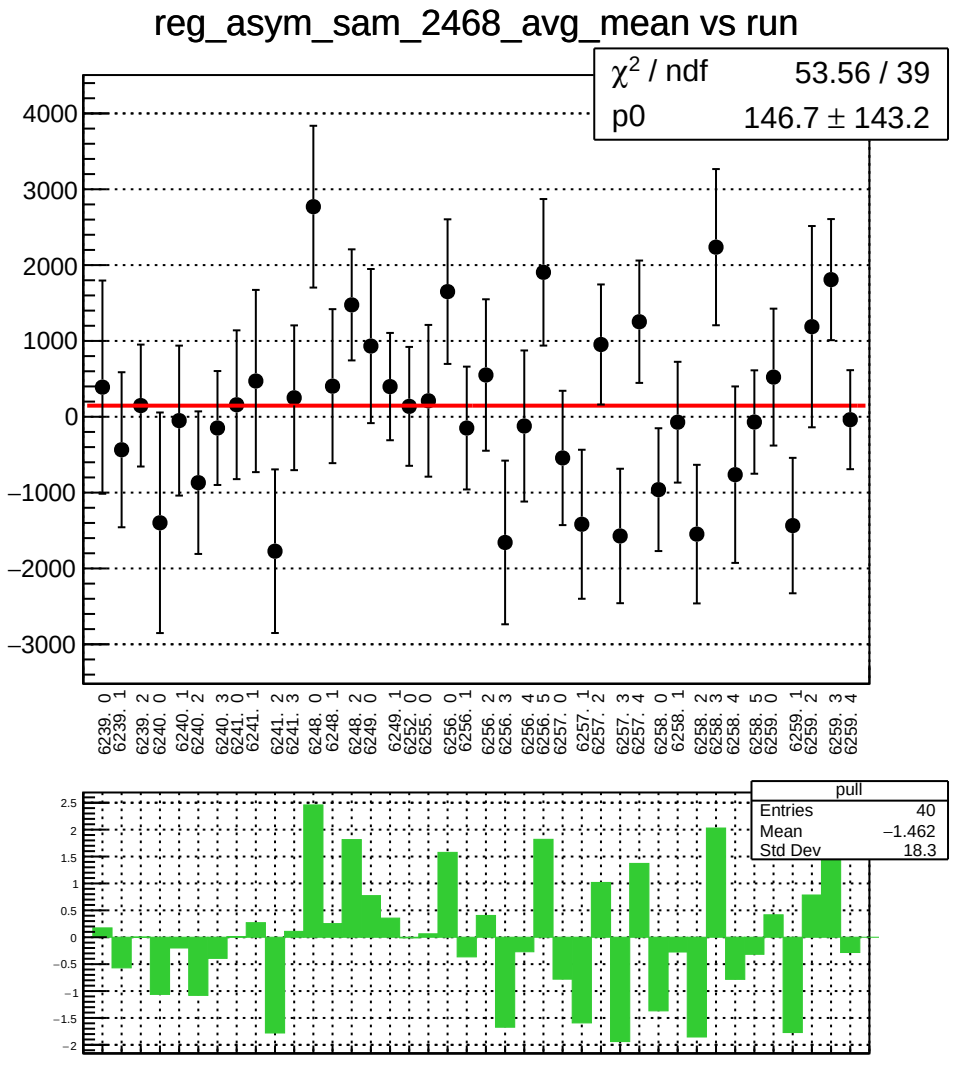

pull1D
Entries 40
Mean −0.04456
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

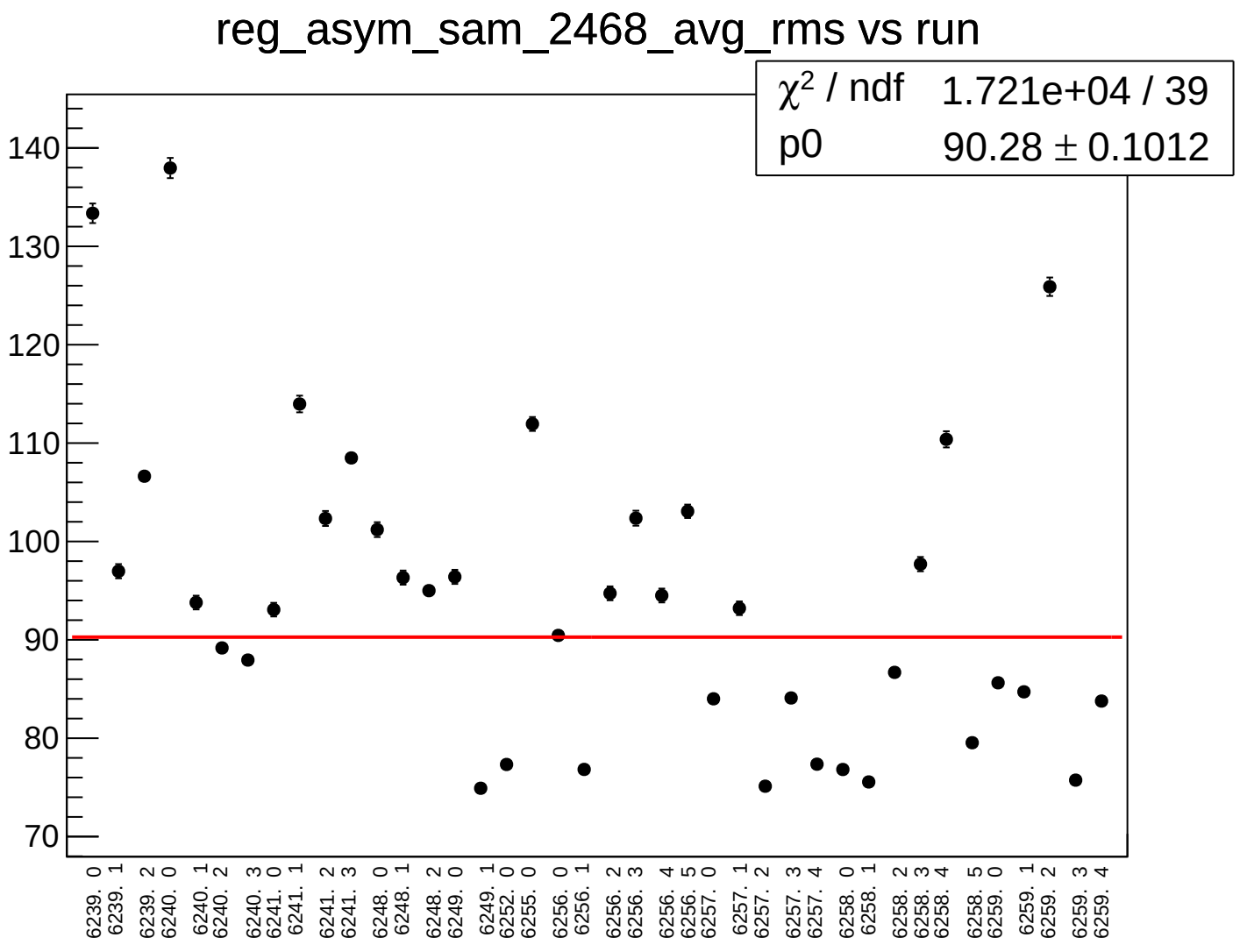

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 4084 / 39
p0 640 ± 0.7119
900
850
800
750
700
650
600
550
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

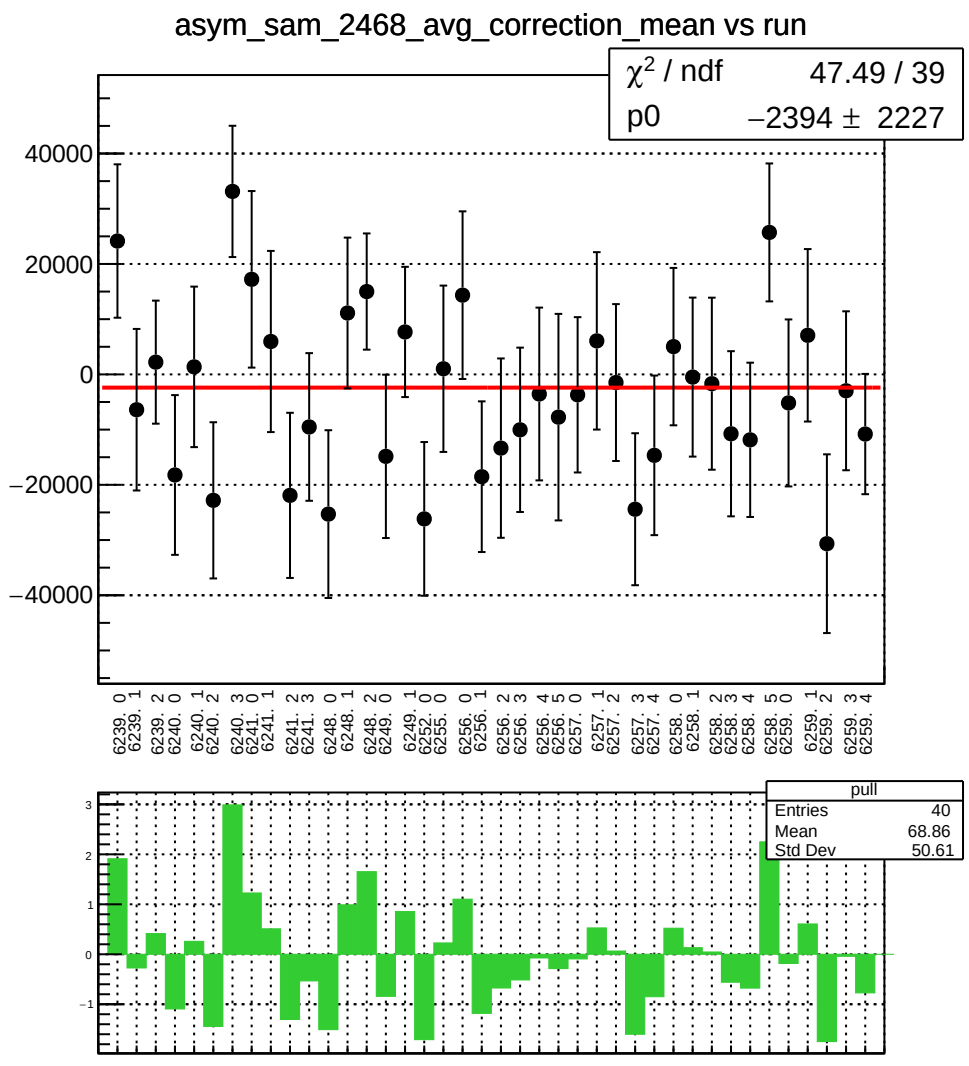

asym_sam_1357_avg_mean vs run
χ² / ndf 49.51 / 39
p0 1022 ± 1011
20000
10000
0
−10000
−20000
6239. 0
6239. 1
6239. 2
6239. 3
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 59.73
Std Dev 41.47
2
1
0
−1
−2
−3

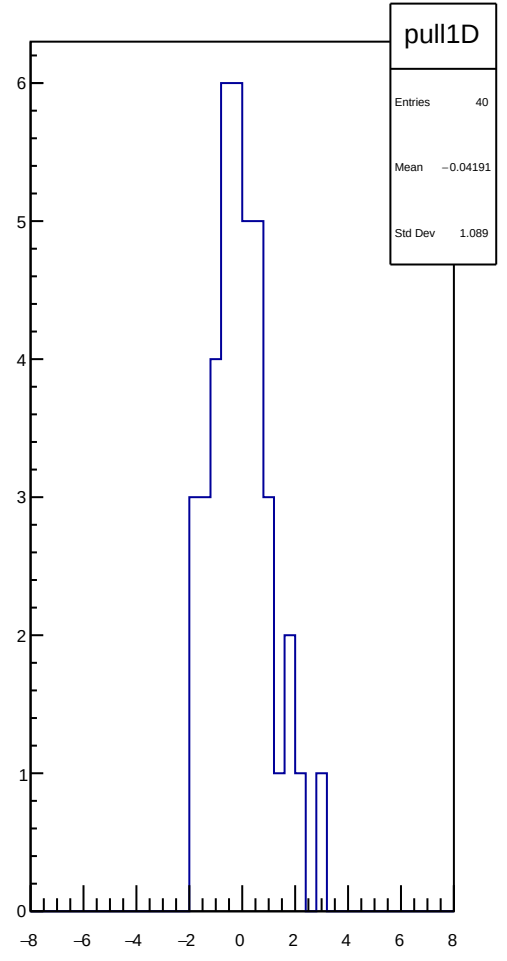

pull1D
Entries 40
Mean 0.04481
Std Dev 1.112
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

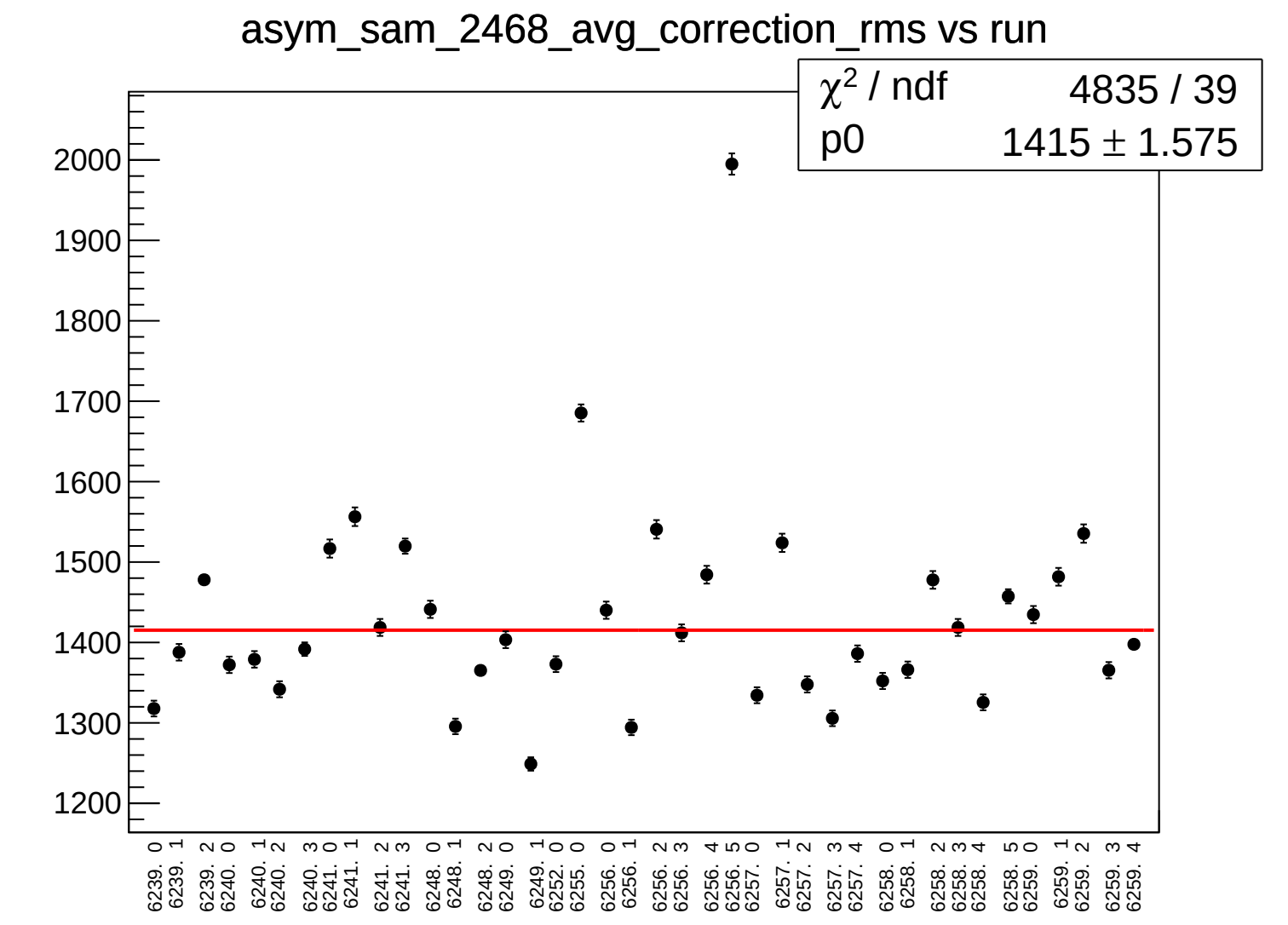

asym_sam_1357_avg_rms vs run
χ² / ndf 4070 / 39
p0 642.5 ± 0.7146
900
850
800
750
700
650
600
550
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

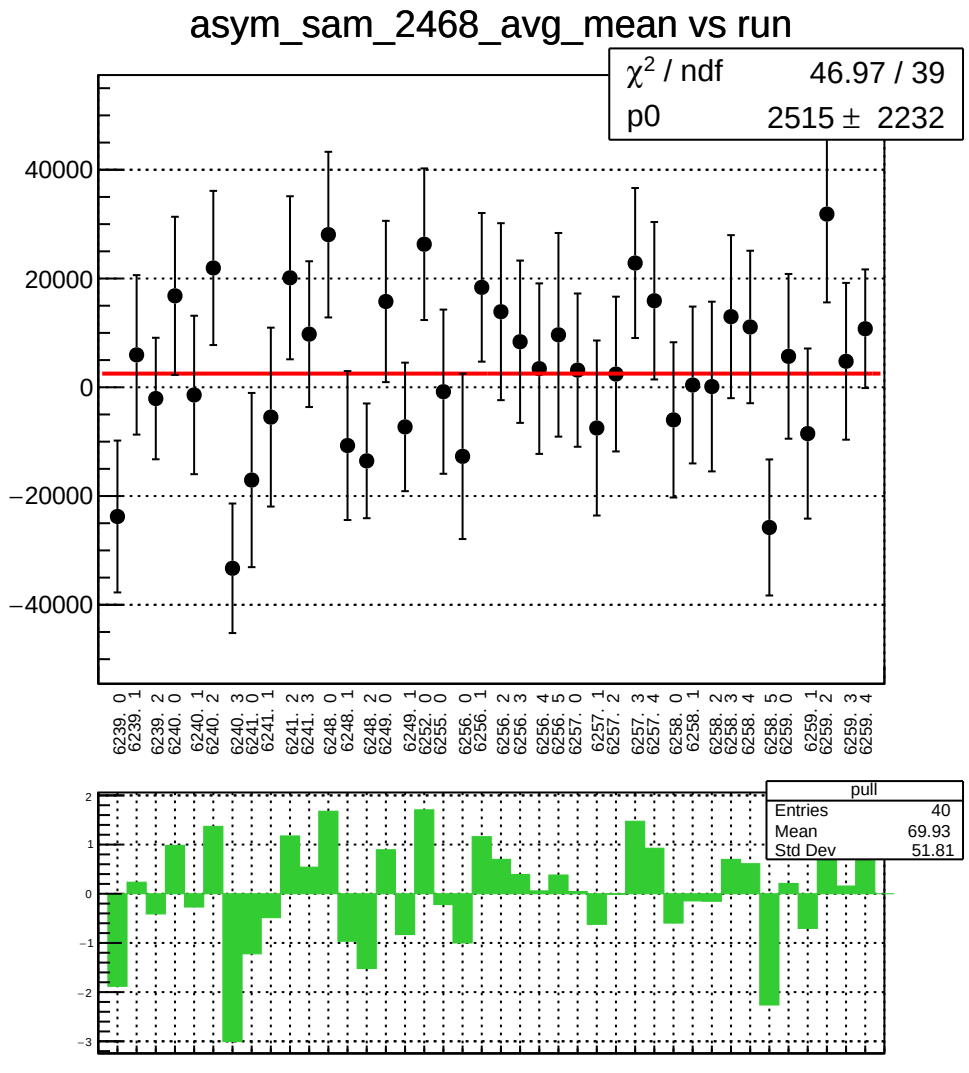

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 53.56 / 39
p0 146.7 ± 143.2
4000
3000
2000
1000
0
−1000
−2000
−3000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −1.462
Std Dev 18.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean −0.01418
Std Dev 1.157
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

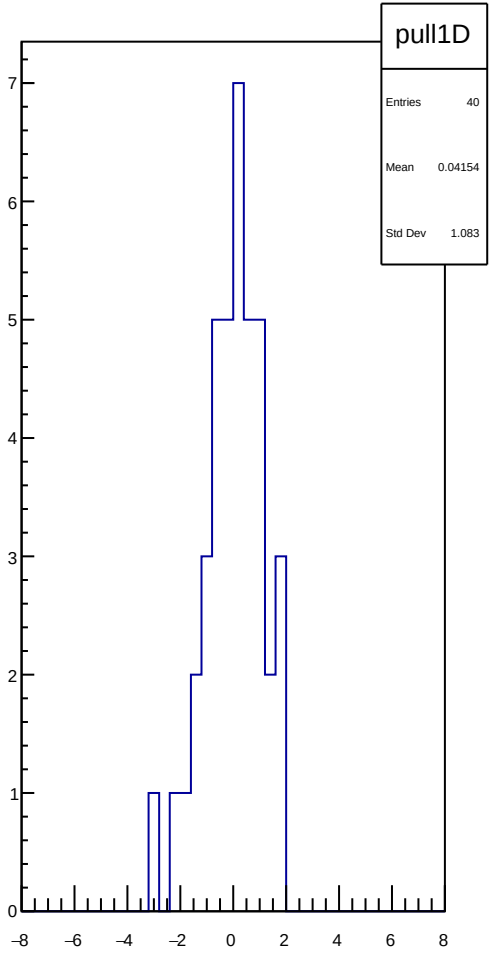

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.721e+04 / 39
p0 90.28 ± 0.1012
140
130
120
110
100
90
80
70
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

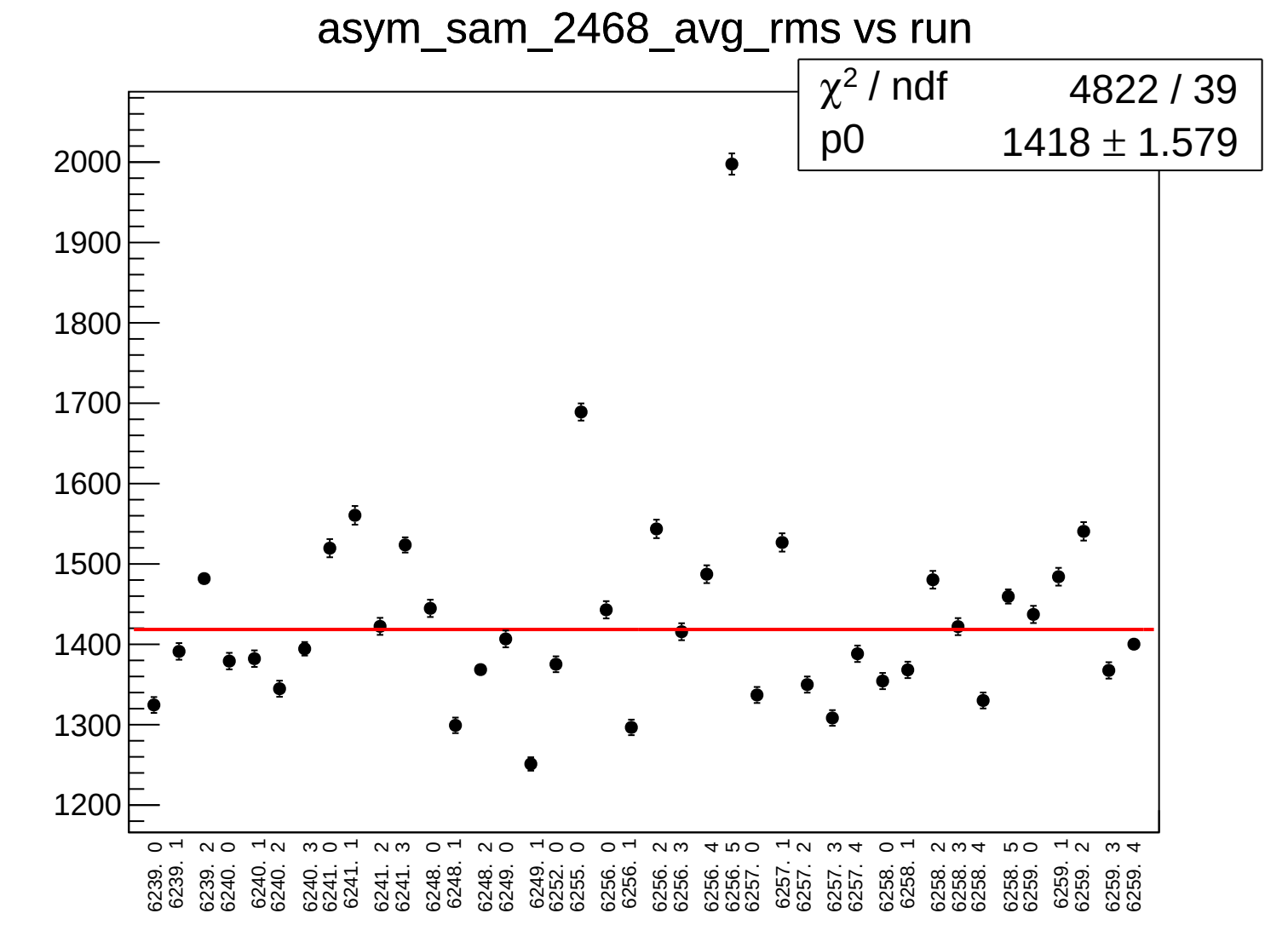

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 47.49 / 39
p0 −2394 ± 2227
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 68.86
Std Dev 50.61
3
2
1
0
−1

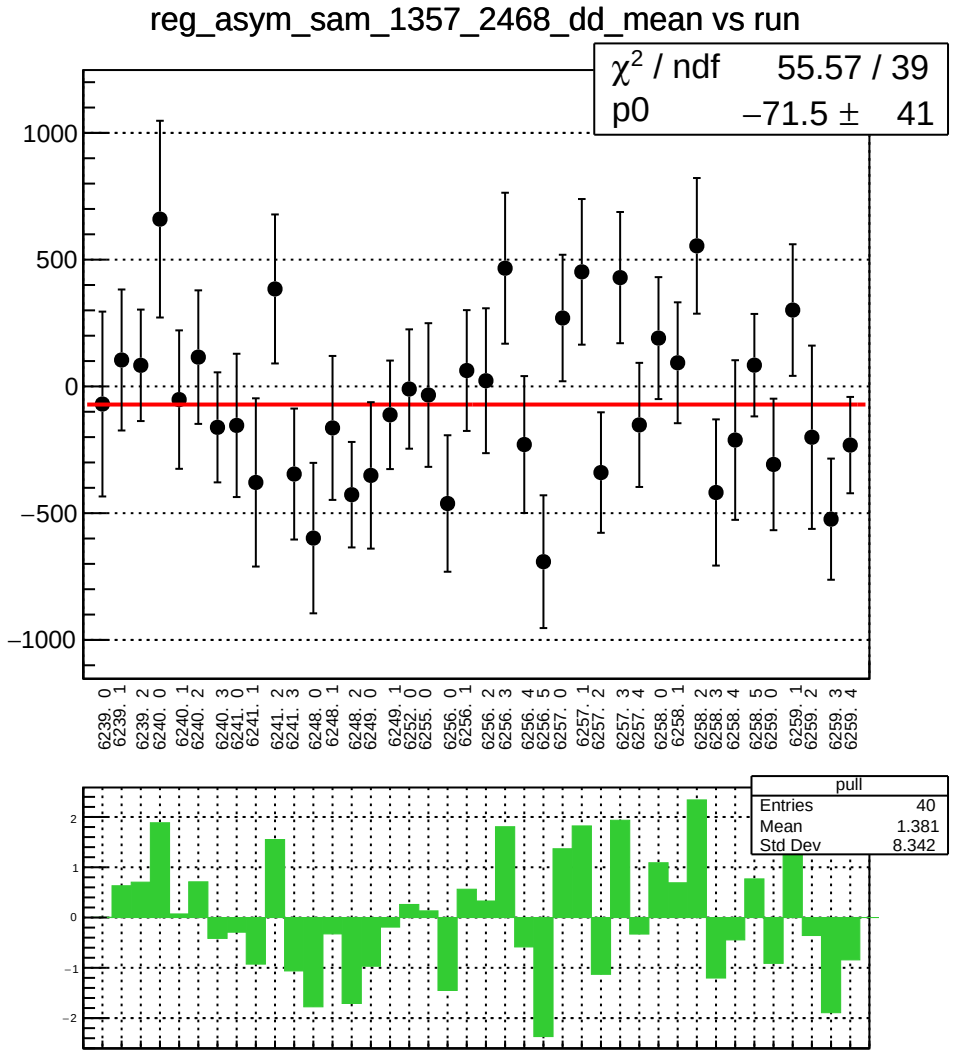

pull1D
Entries 40
Mean −0.04191
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

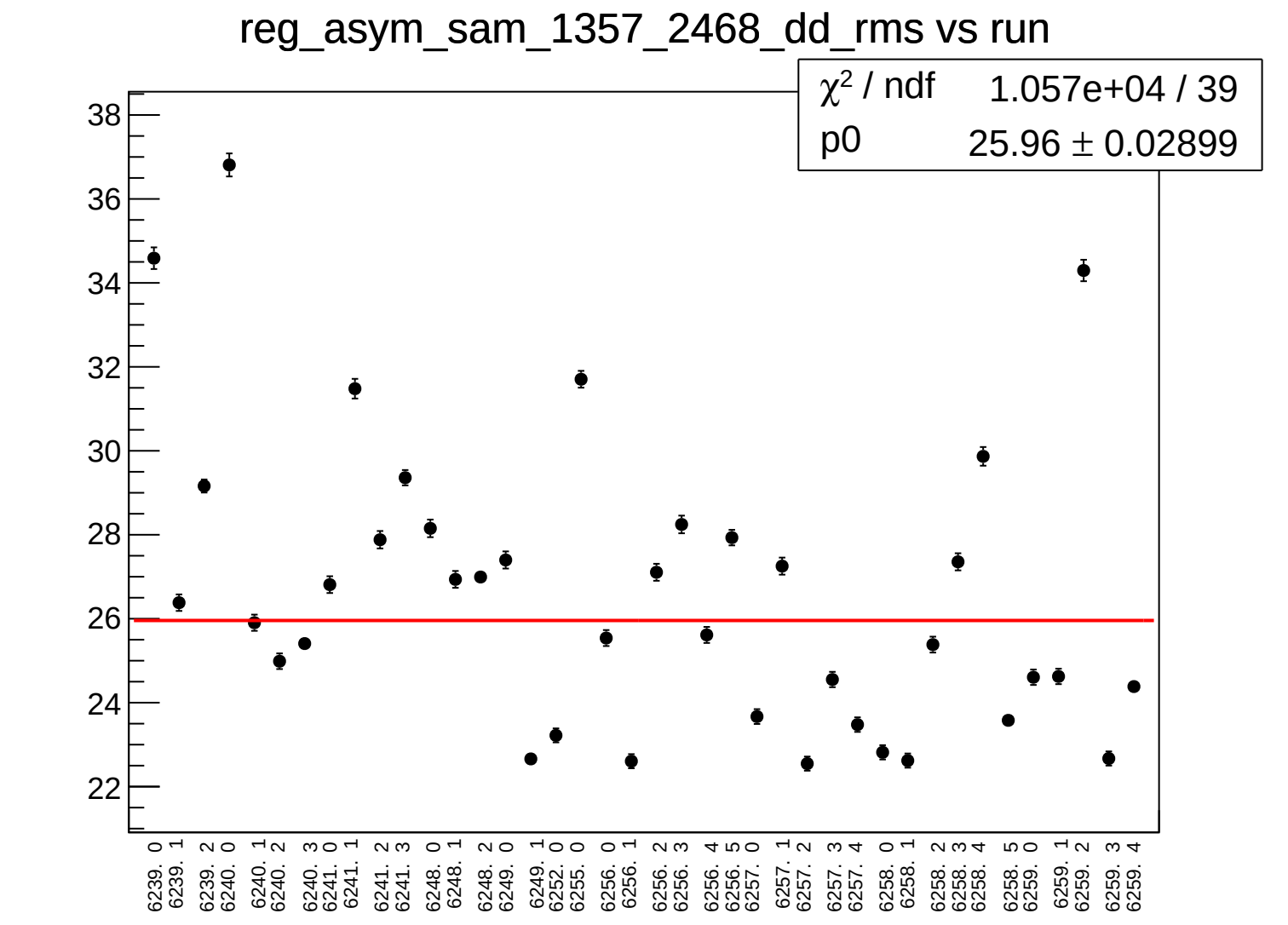

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 4835 / 39
p0 1415 ± 1.575
2000
1900
1800
1700
1600
1500
1400
1300
1200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

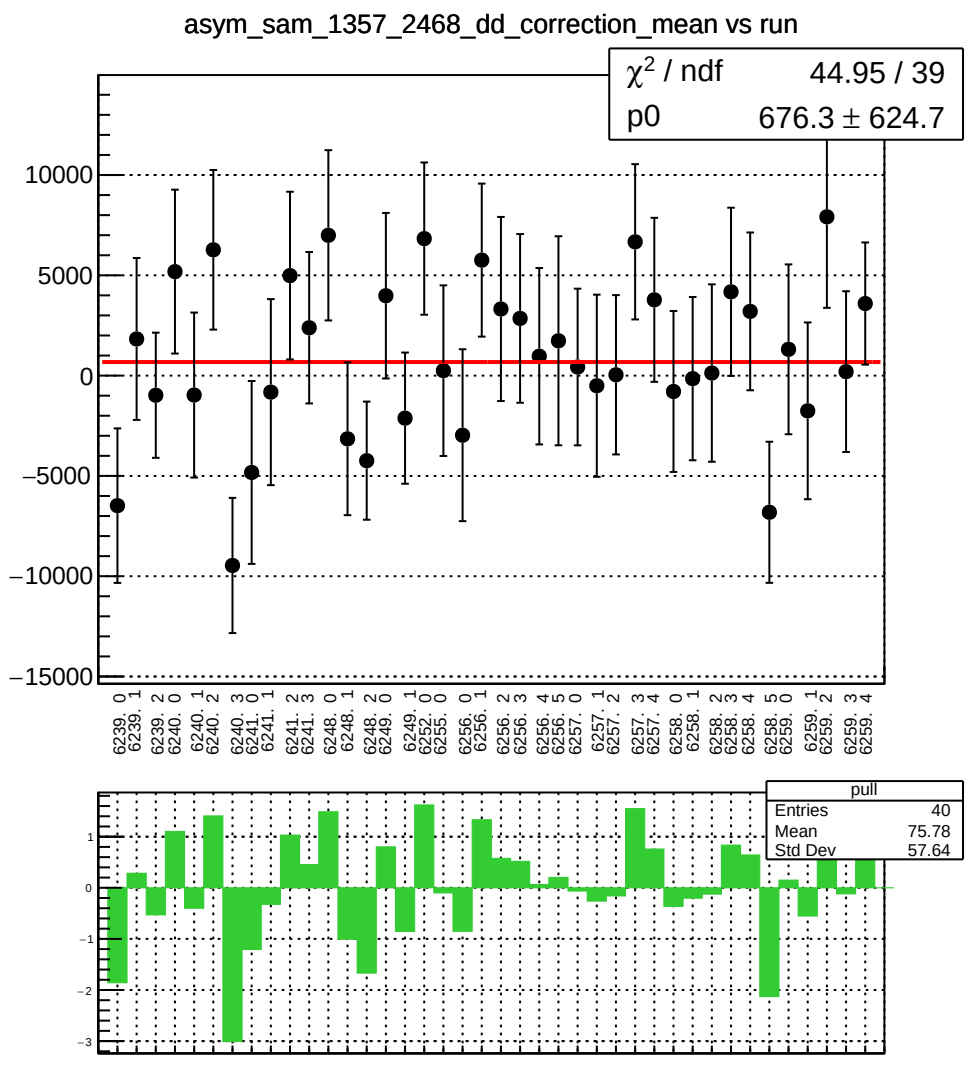

asym_sam_2468_avg_mean vs run
χ² / ndf 46.97 / 39
p0 2515 ± 2232
40000
20000
0
−20000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 69.93
Std Dev 51.81
2
1
0
−1
−2
−3

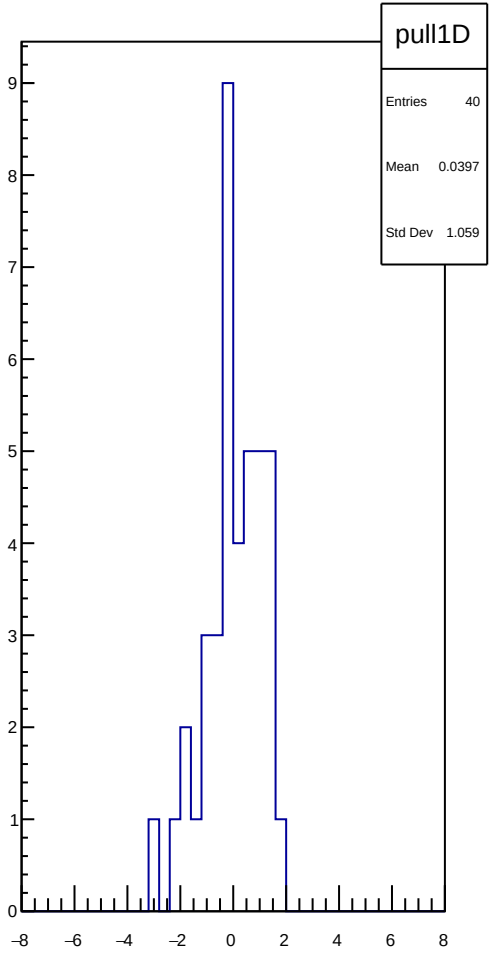

pull1D
Entries 40
Mean 0.04154
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

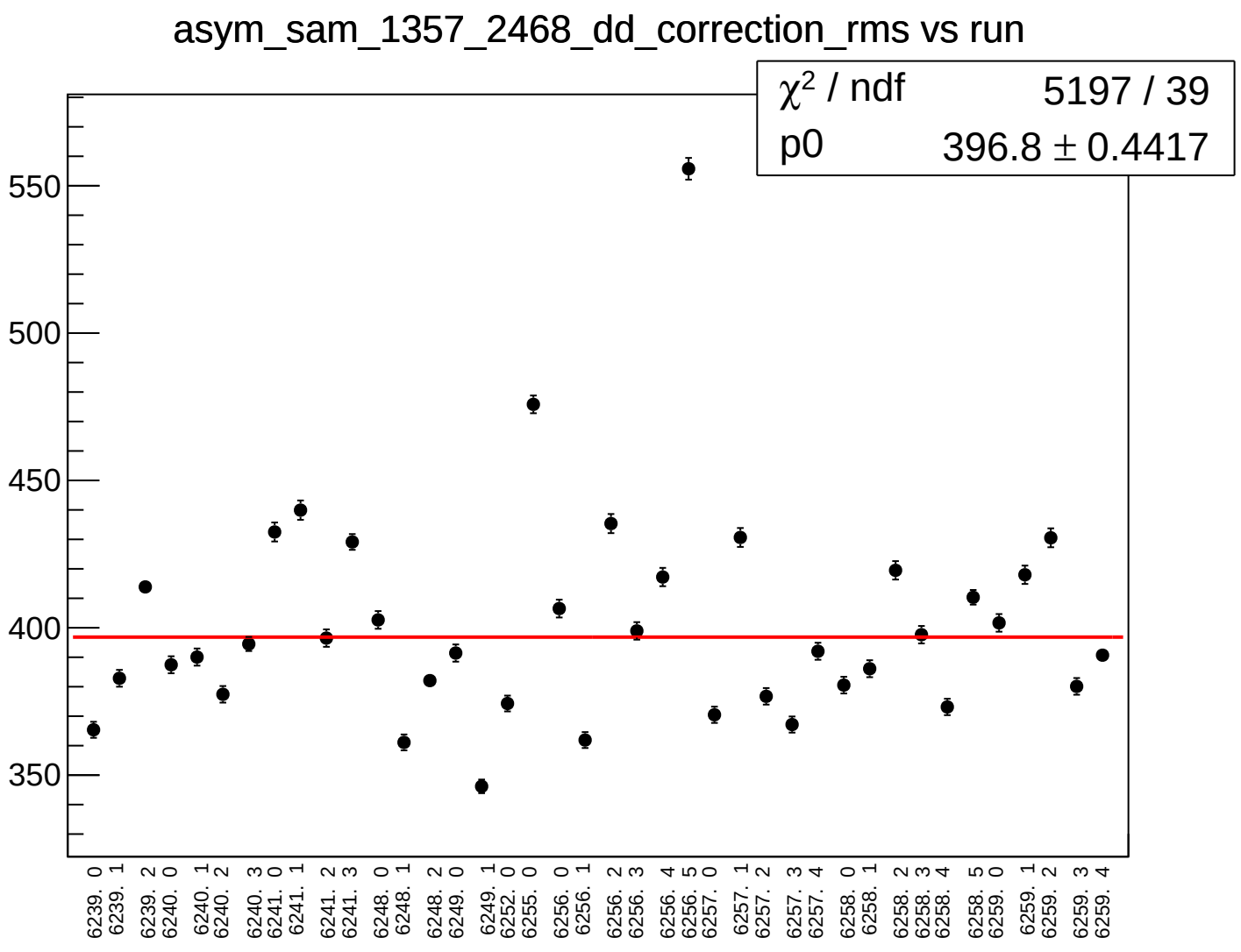

asym_sam_2468_avg_rms vs run
χ² / ndf 4822 / 39
p0 1418 ± 1.579
2000
1900
1800
1700
1600
1500
1400
1300
1200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

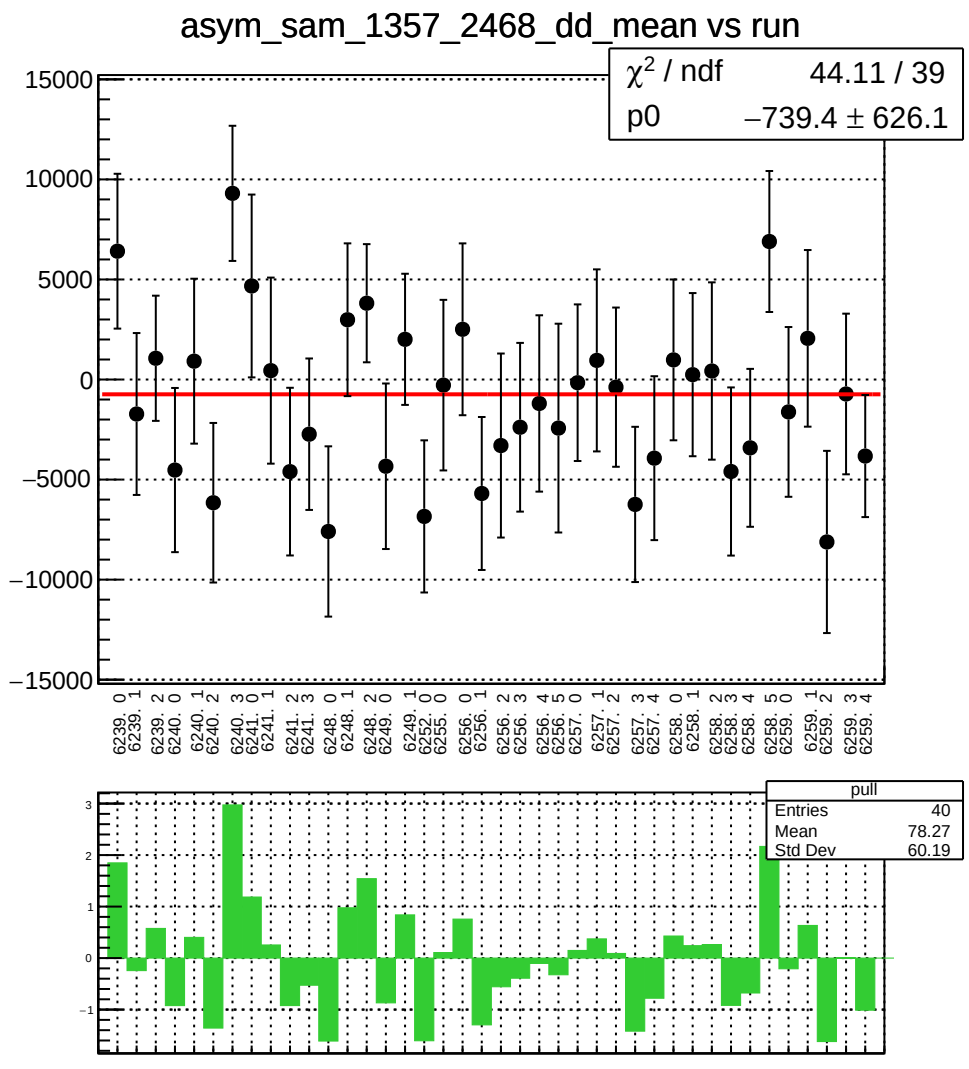

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 55.57 / 39
p0 −71.5 ± 41
1000
500
0
−500
−1000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1.381
Std Dev 8.342
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.02319
Std Dev 1.178
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.057e+04 / 39
p0 25.96 ± 0.02899
38
36
34
32
30
28
26
24
22
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 44.95 / 39
p0 676.3 ± 624.7
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 75.78
Std Dev 57.64
1
0
−1
−2
−3


pull1D
Entries 40
Mean 0.0397
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 5197 / 39
p0 396.8 ± 0.4417
550
500
450
400
350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4


asym_sam_1357_2468_dd_mean vs run
χ² / ndf 44.11 / 39
p0 −739.4 ± 626.1
15000
10000
5000
0
−5000
−10000
−15000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
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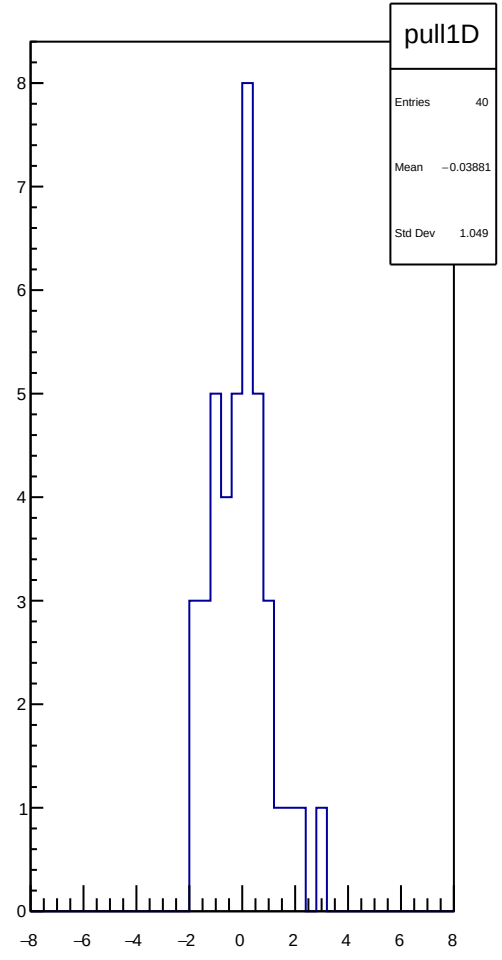
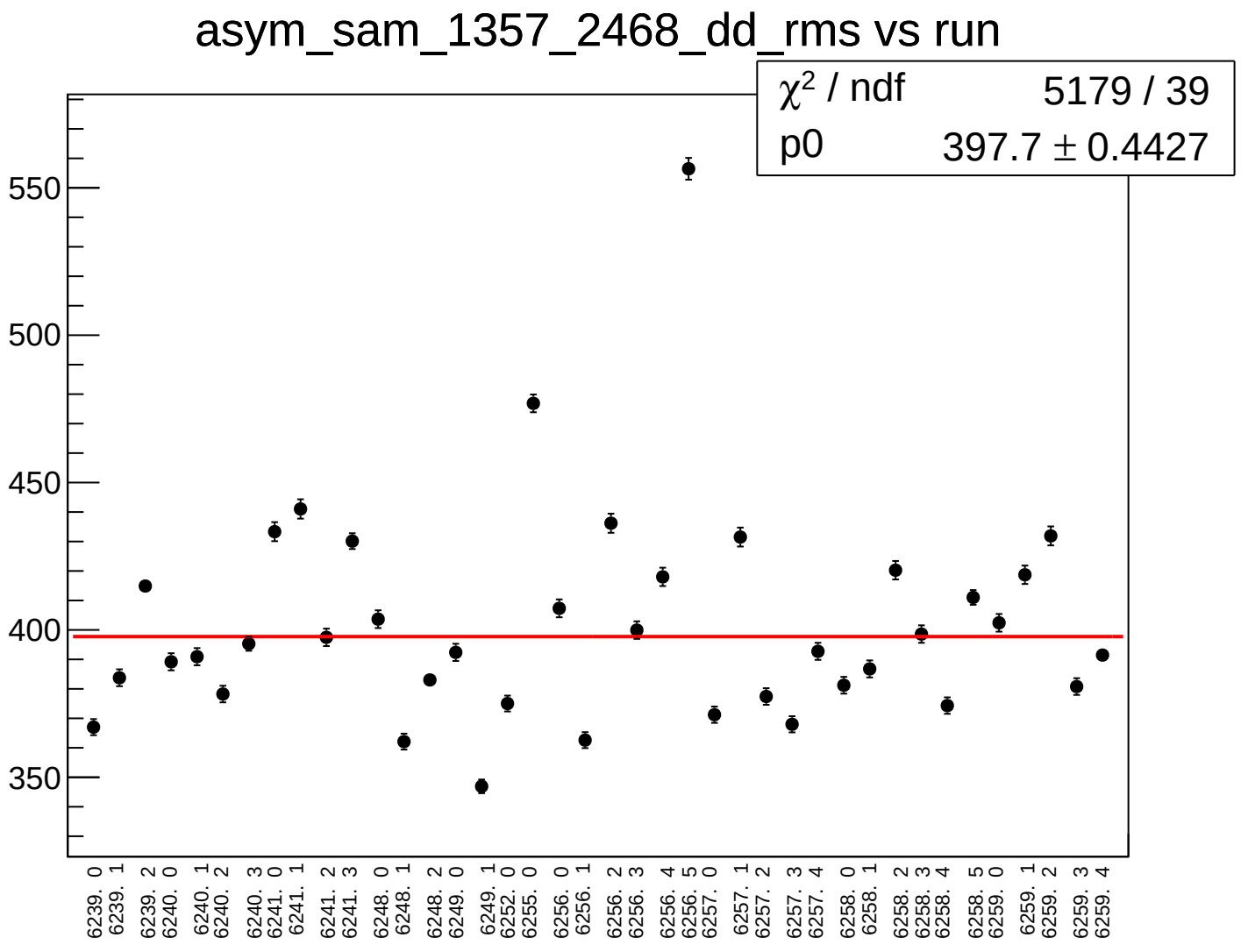
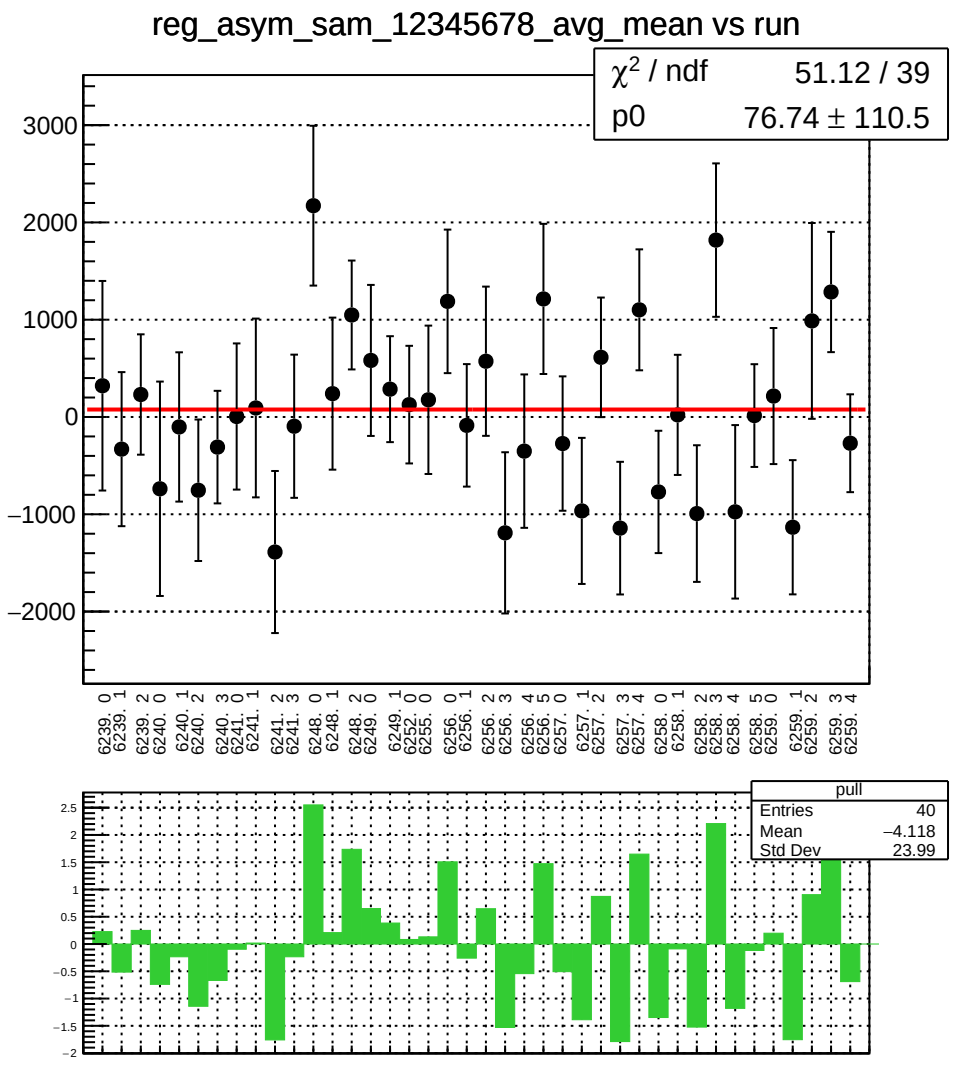
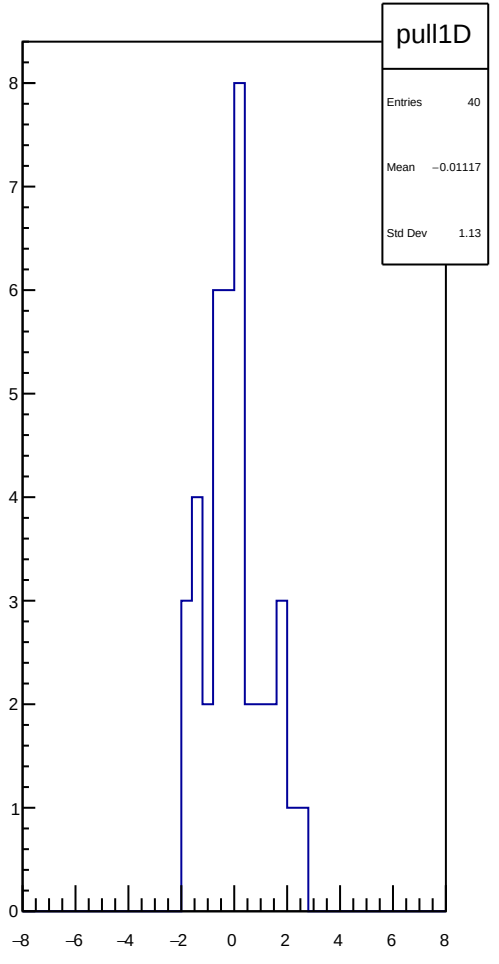
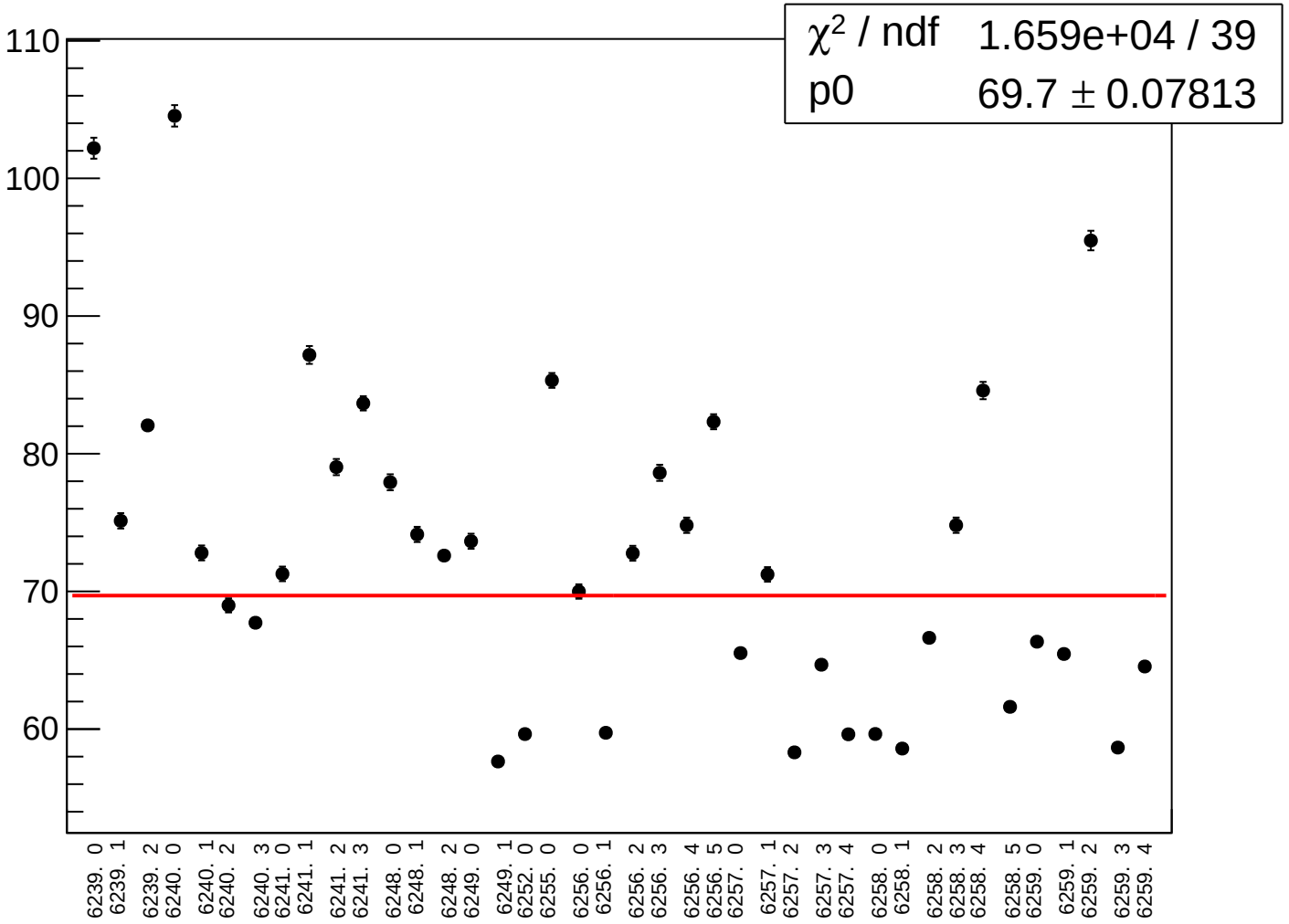
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 78.27
Std Dev 60.19
3
2
1
0
−1

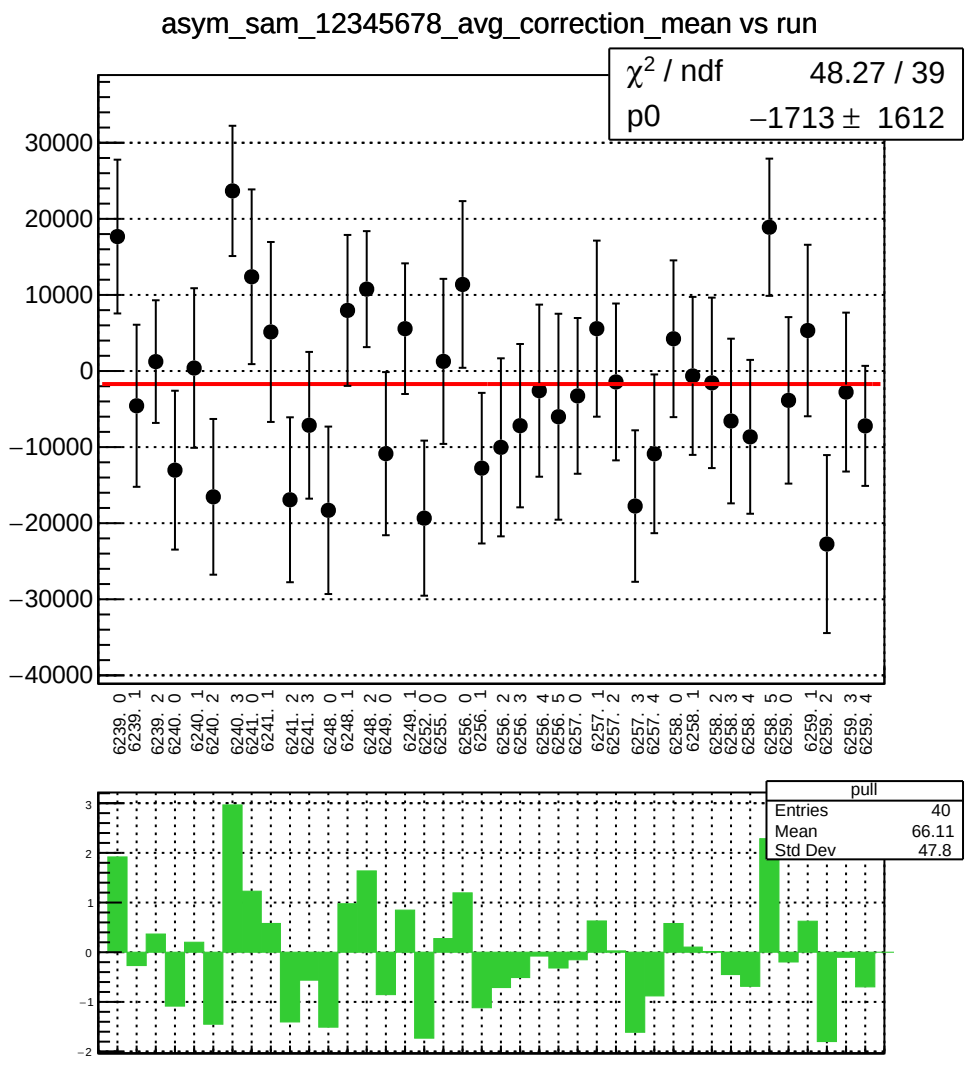

pull1D
Entries 40
Mean −0.03881
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

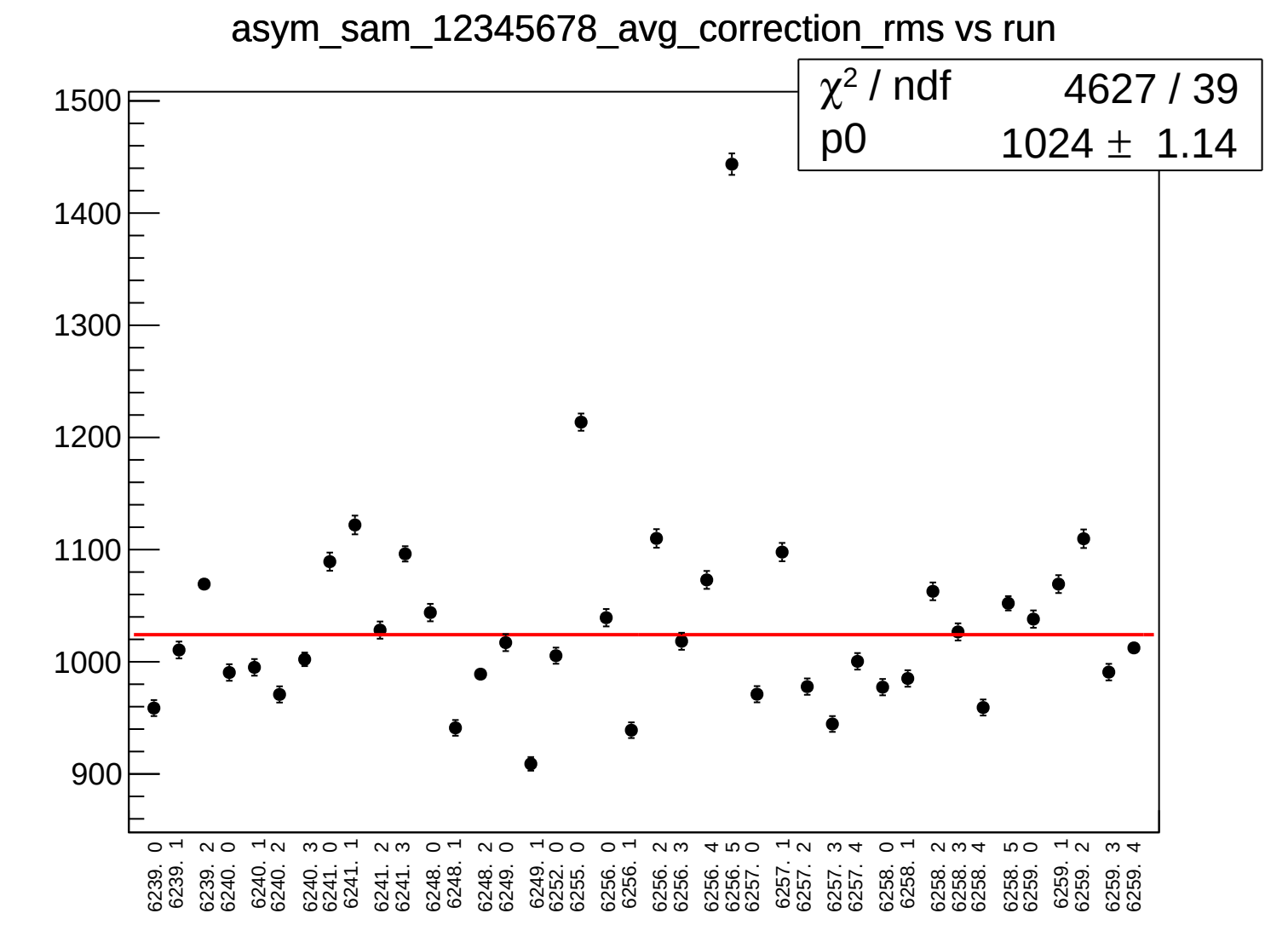

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5179 / 39
p0 397.7 ± 0.4427
550
500
450
400
350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

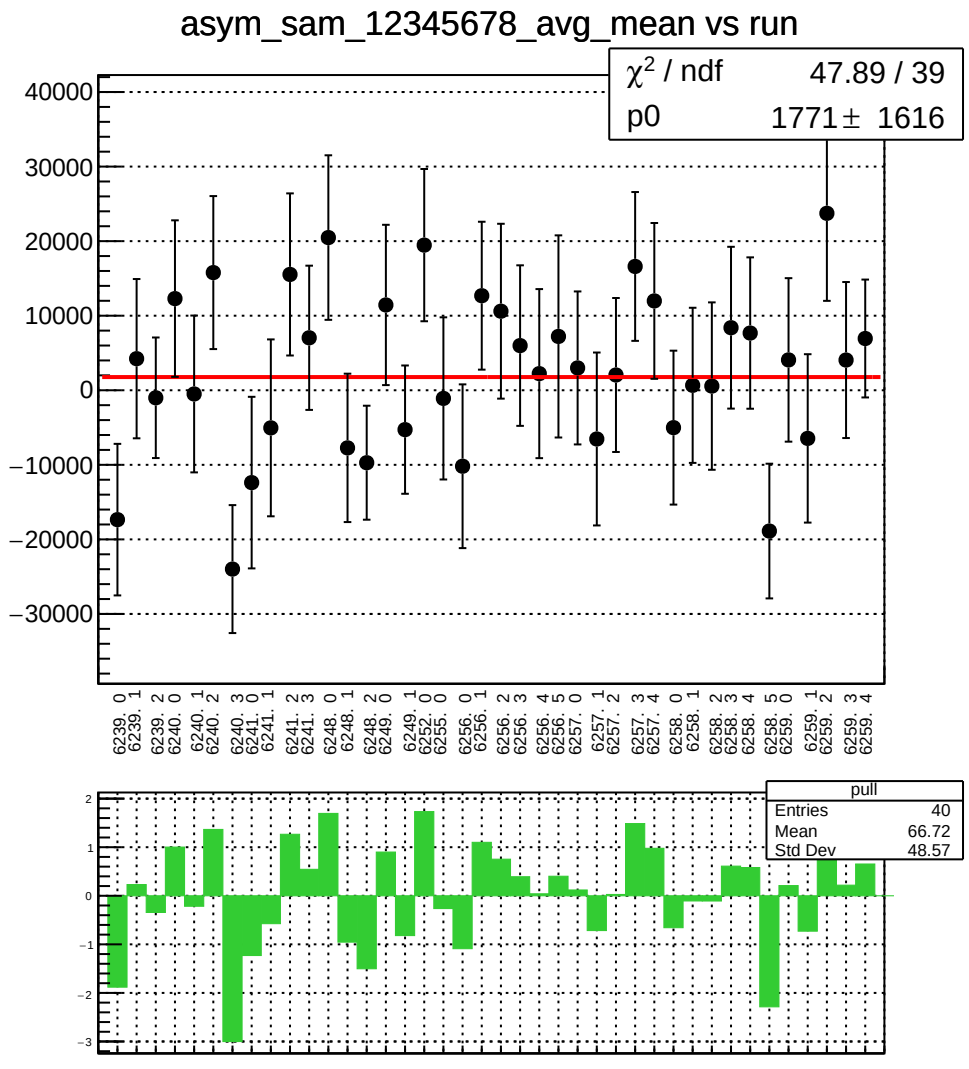

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 51.12 / 39
p0 76.74 ± 110.5
3000
2000
1000
0
−1000
−2000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −4.118
Std Dev 23.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

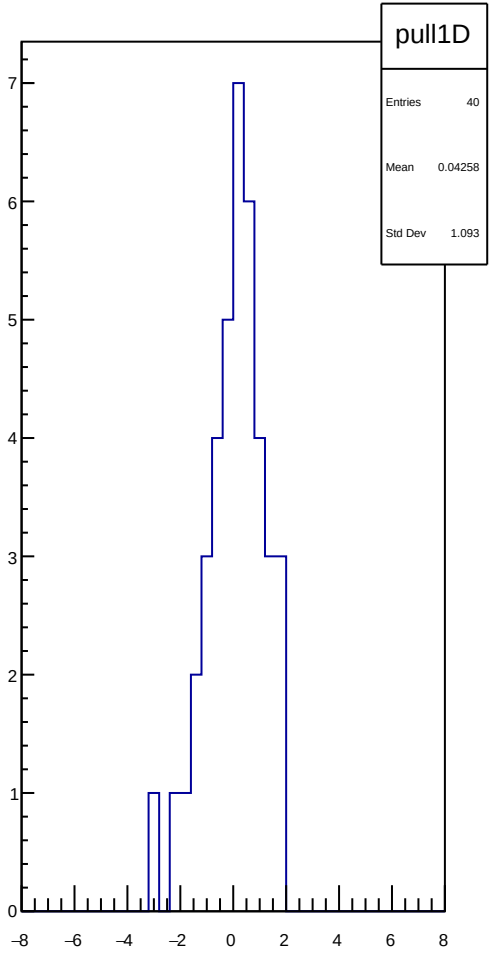

pull1D
Entries 40
Mean −0.01117
Std Dev 1.13
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

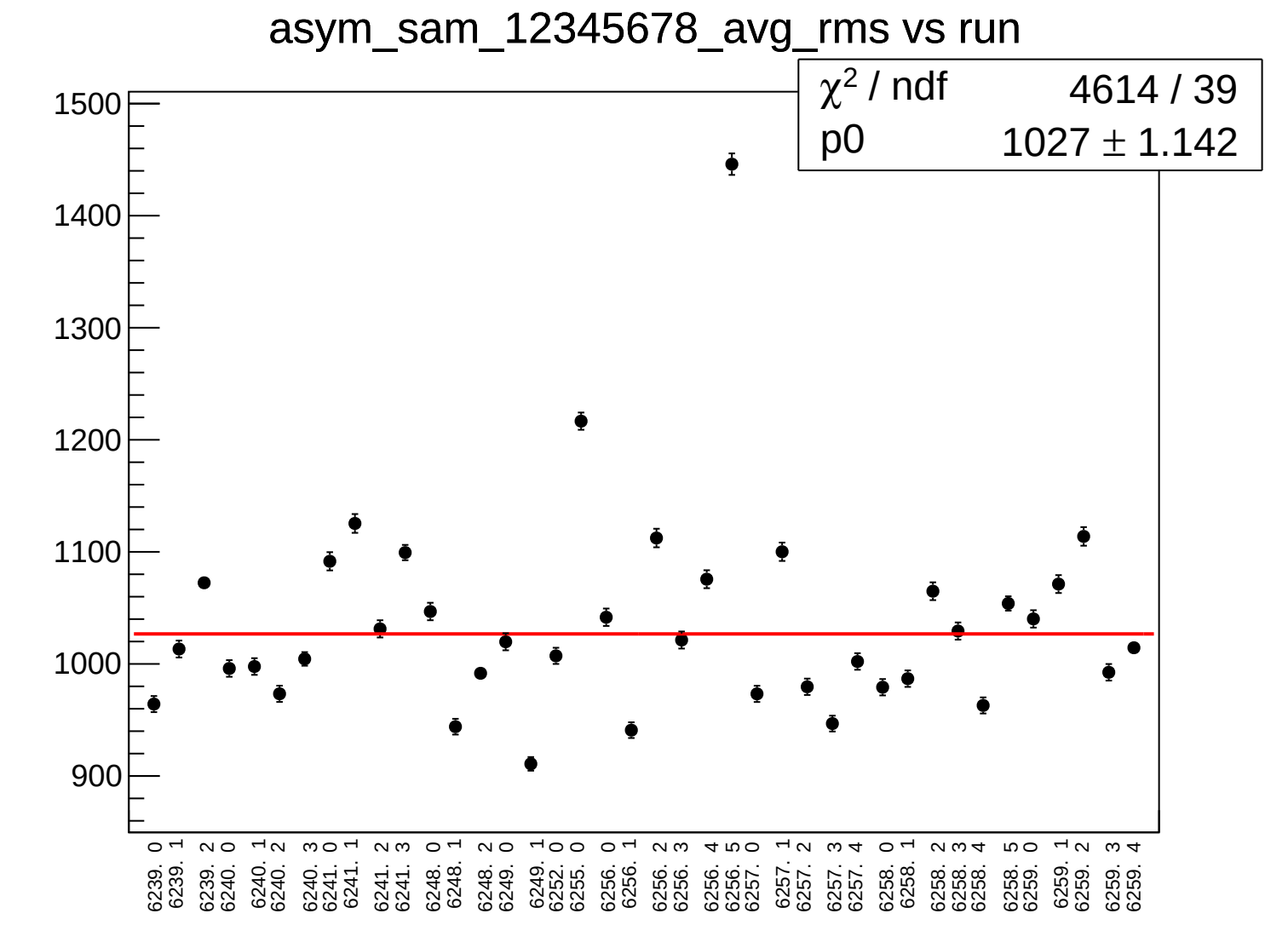

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.659e+04 / 39
p0 69.7 ± 0.07813
110
100
90
80
70
60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

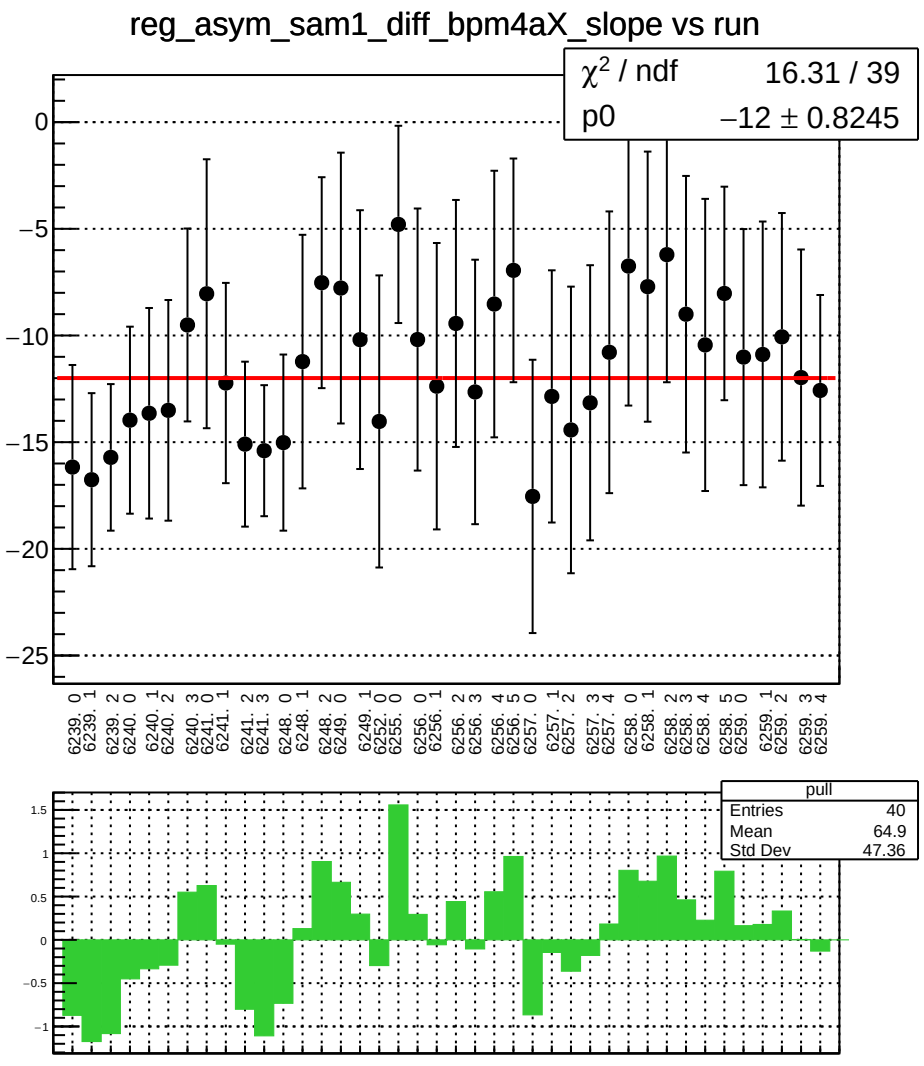

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 48.27 / 39
p0 −1713 ± 1612
30000
20000
10000
0
−10000
−20000
−30000
−40000
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 66.11
Std Dev 47.8
3
2
1
0
−1
−2
pull1D
Entries 40
Mean −0.04275
Std Dev 1.098
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

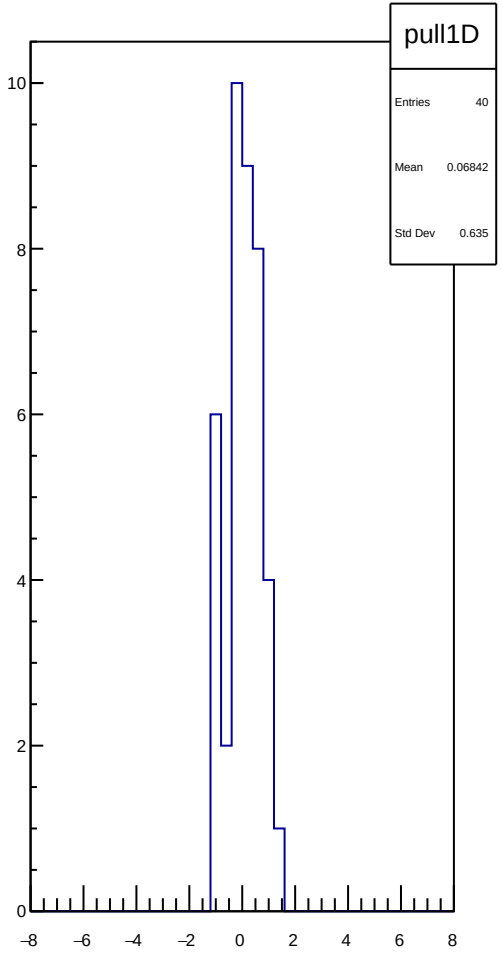

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 4627 / 39
p0 1024 ± 1.14
1500
1400
1300
1200
1100
1000
900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

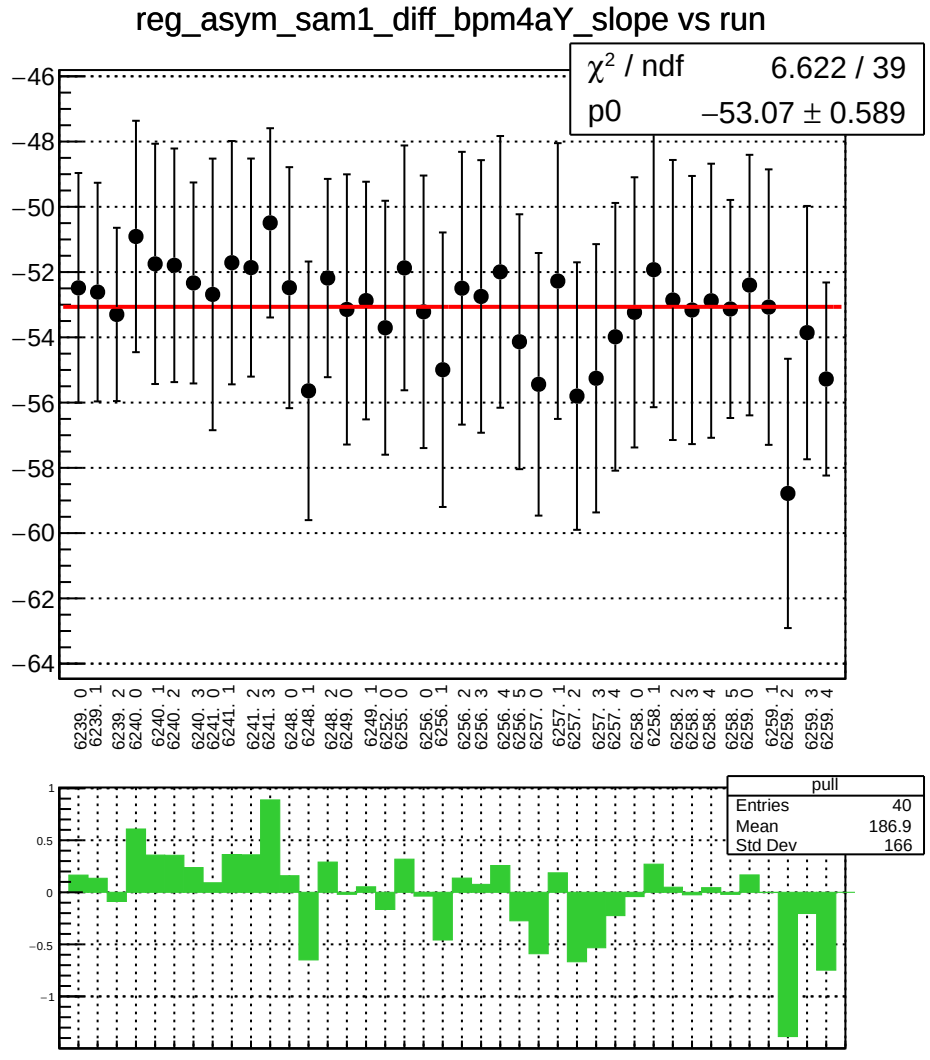

asym_sam_12345678_avg_mean vs run
χ² / ndf 47.89 / 39
p0 1771 ± 1616
pull
Entries 40
Mean 66.72
Std Dev 48.57

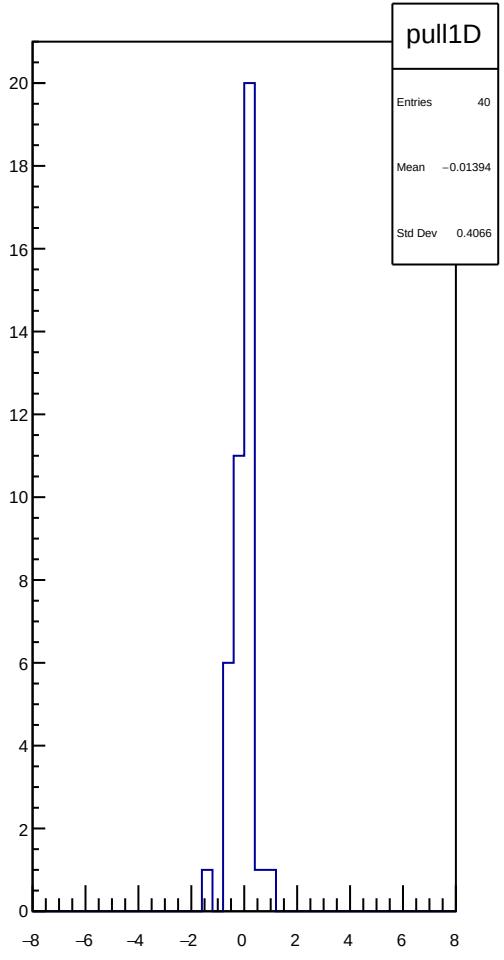

pull1D
Entries 40
Mean 0.04258
Std Dev 1.093

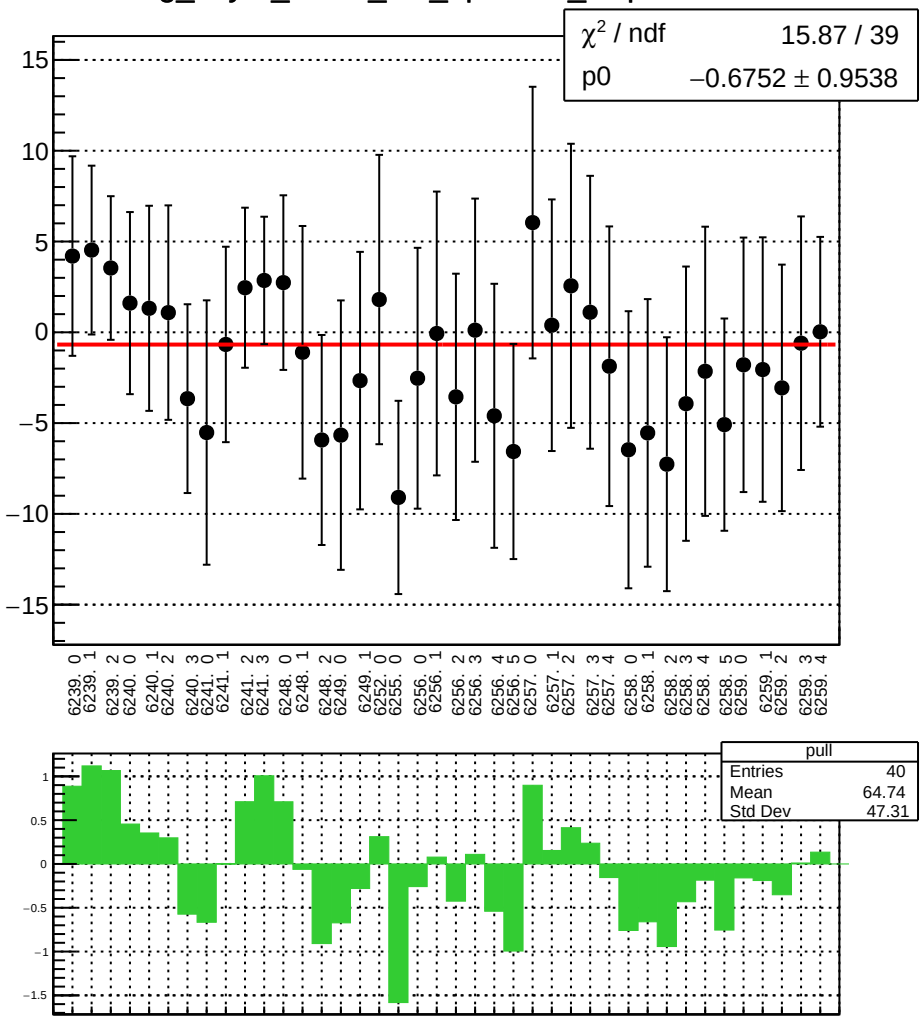

asym_sam_12345678_avg_rms vs run
χ² / ndf 4614 / 39
p0 1027 ± 1.142
1500
1400
1300
1200
1100
1000
900
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4

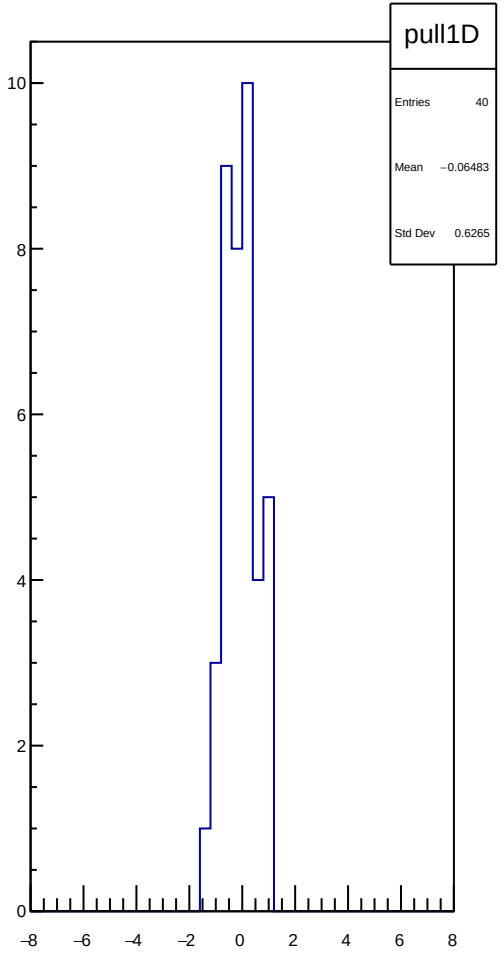

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 16.31 / 39
p0 −12 ± 0.8245
0
−5
−10
−15
−20
−25
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 64.9
Std Dev 47.36
1.5
1
0.5
0
−0.5
−1

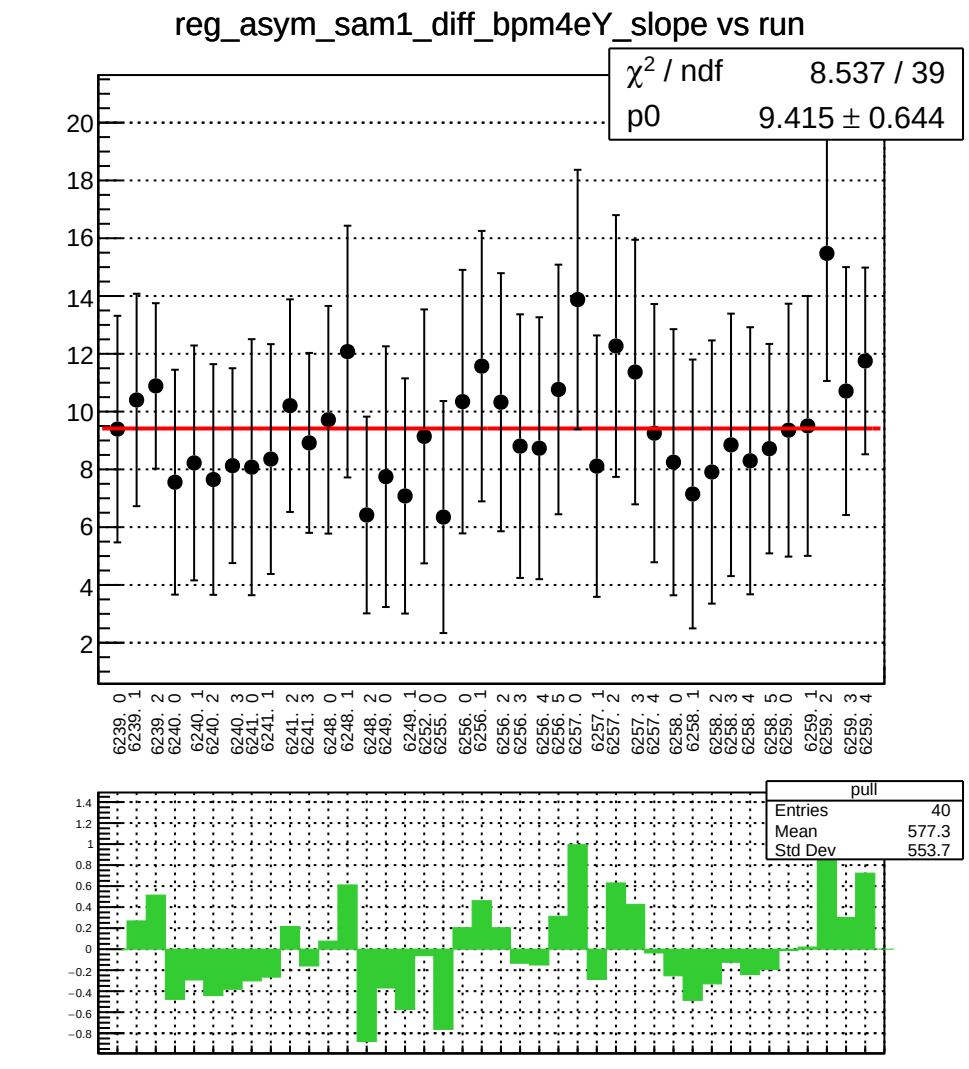

pull1D
Entries 40
Mean 0.06842
Std Dev 0.635
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

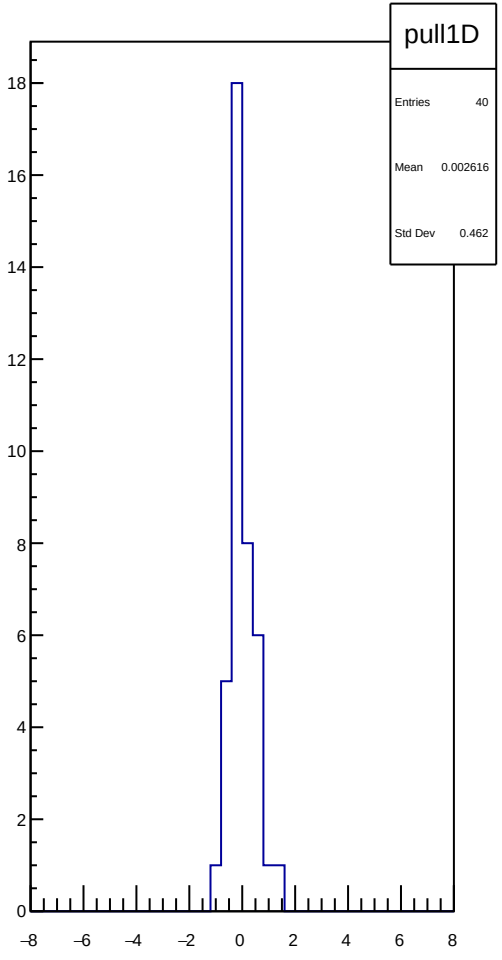

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 6.622 / 39
p0 −53.07 ± 0.589
pull
Entries 40
Mean 186.9
Std Dev 166

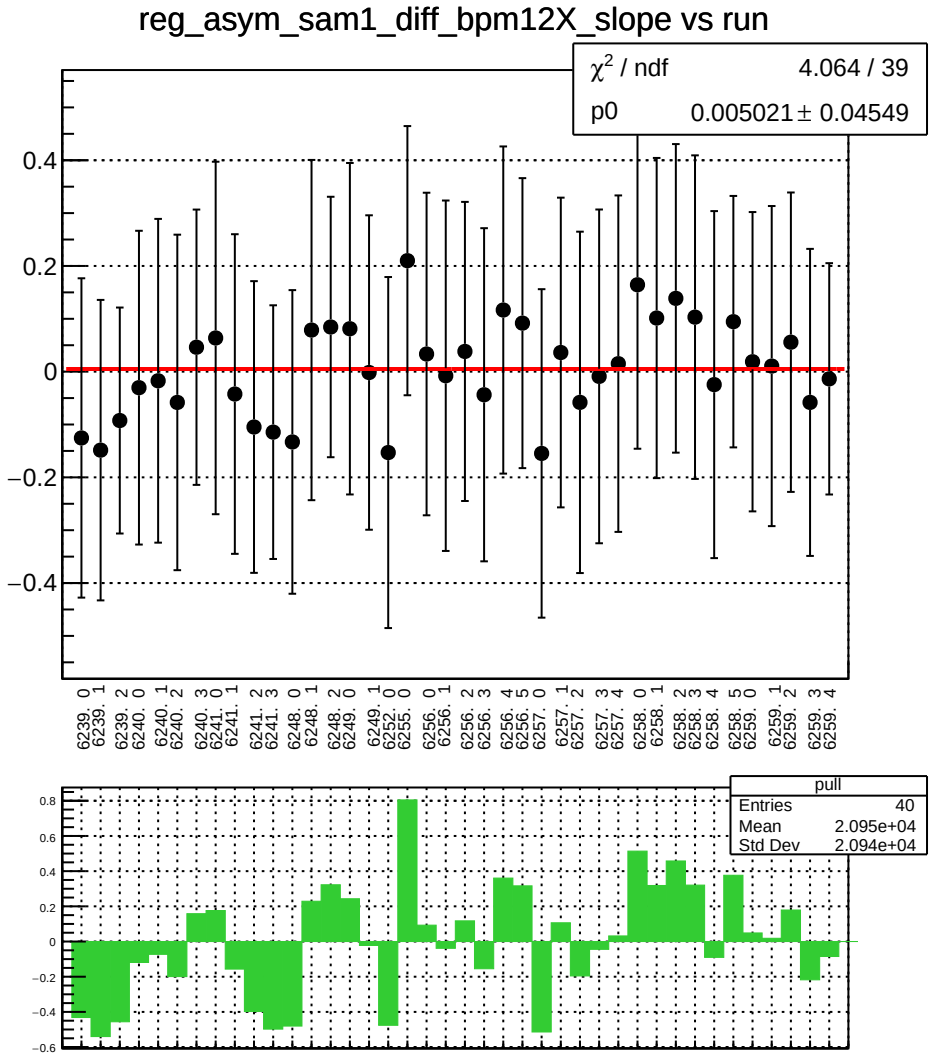

pull1D
Entries 40
Mean −0.01394
Std Dev 0.4066

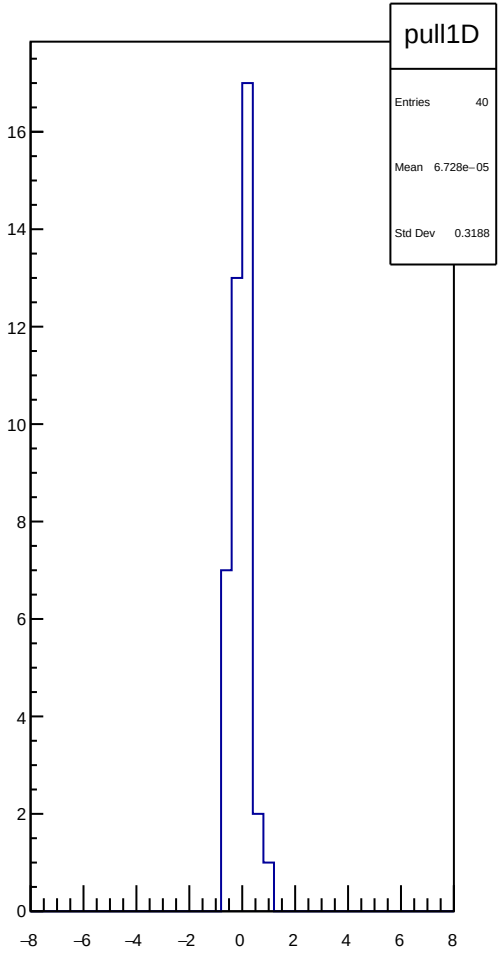

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 15.87 / 39
p0 −0.6752 ± 0.9538
15
10
5
0
−5
−10
−15
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 64.74
Std Dev 47.31
1
0.5
0
−0.5
−1
−1.5

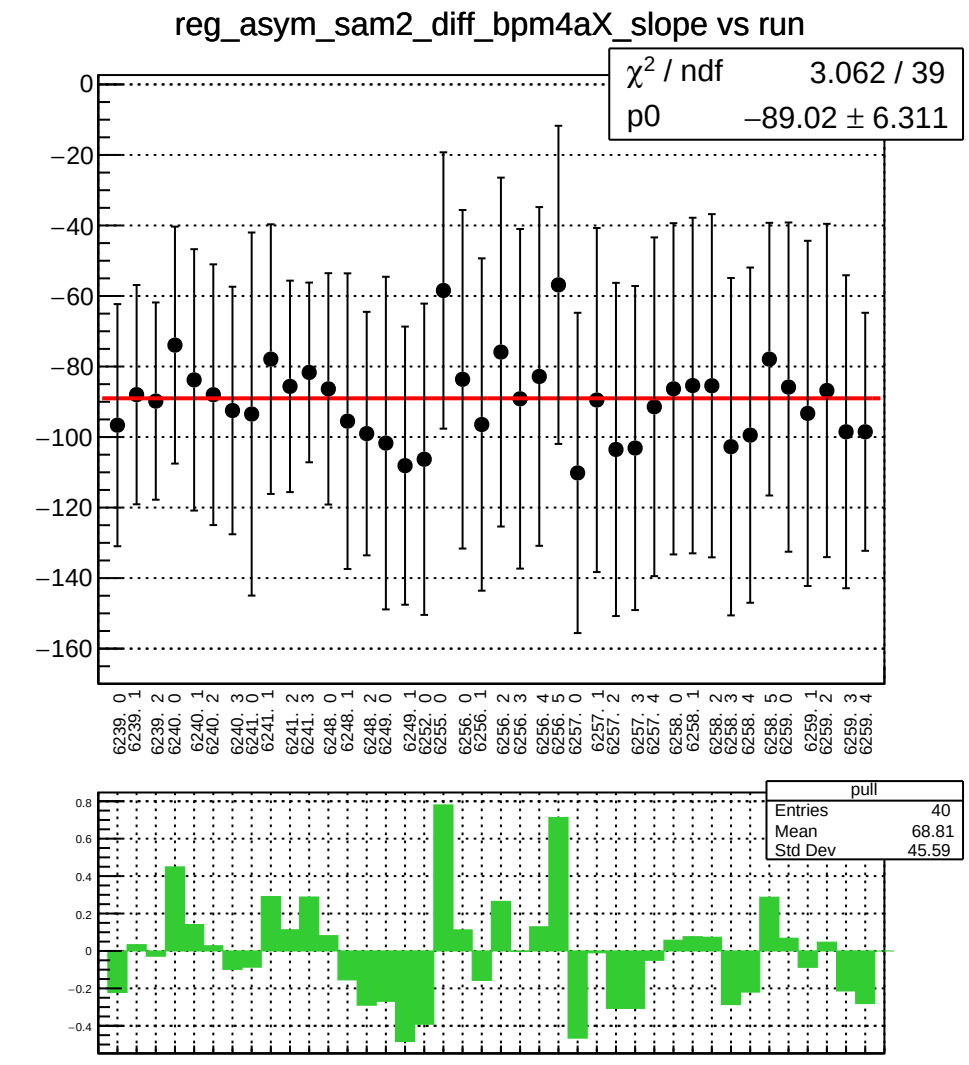

pull1D
Entries 40
Mean −0.06483
Std Dev 0.6265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

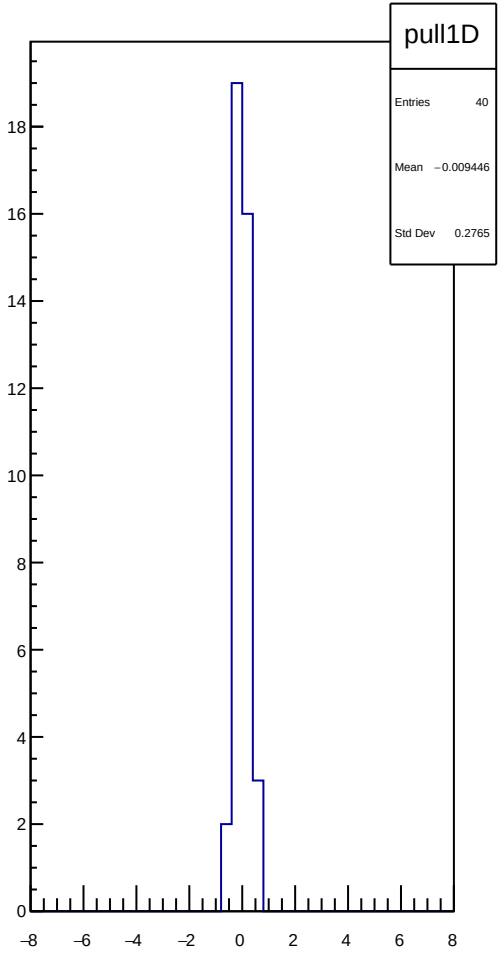

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 8.537 / 39
p0 9.415 ± 0.644
pull
Entries 40
Mean 577.3
Std Dev 553.7

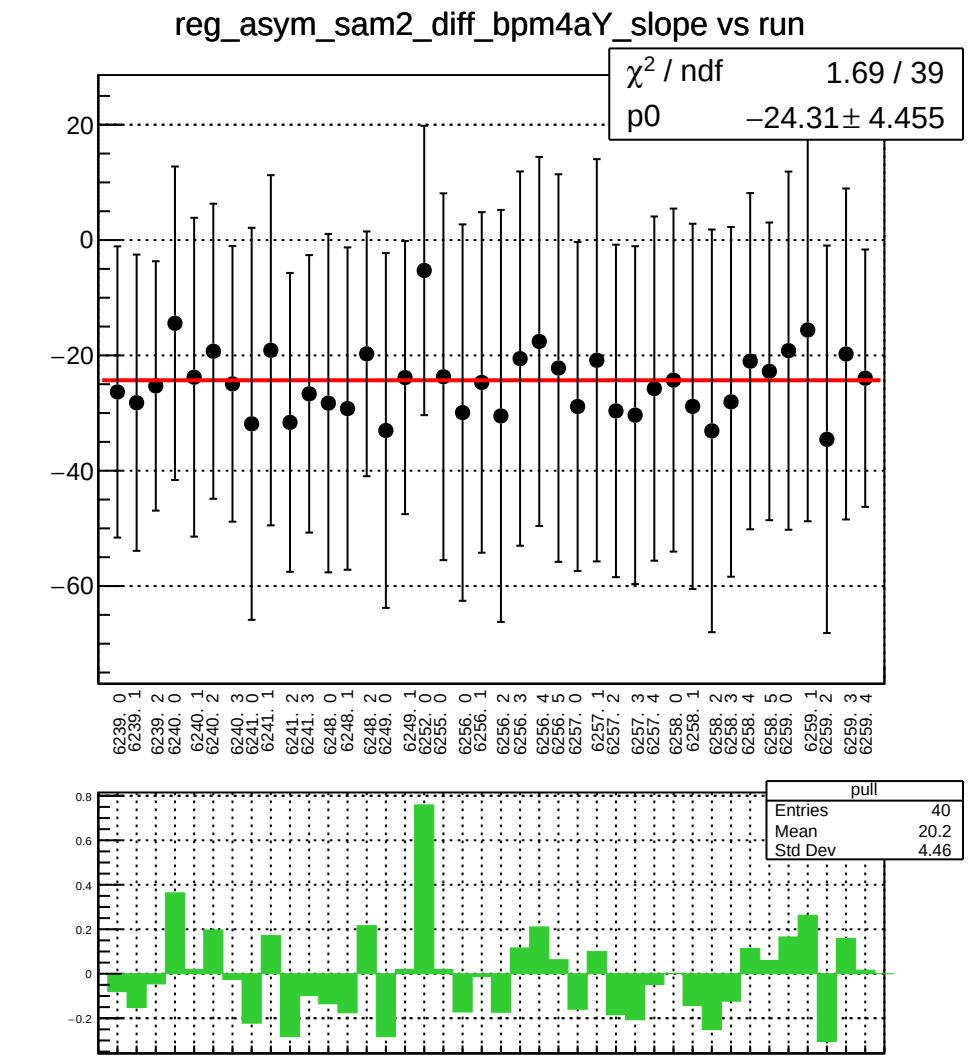

pull1D
Entries 40
Mean 0.002616
Std Dev 0.462

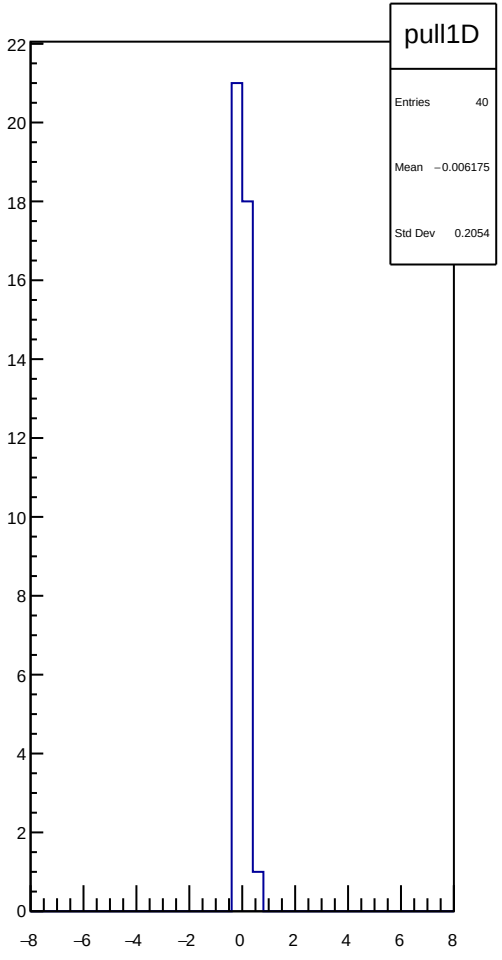

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4.064 / 39
p0 0.005021 ± 0.04549
0.4
0.2
0
−0.2
−0.4
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 2.095e+04
Std Dev 2.094e+04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

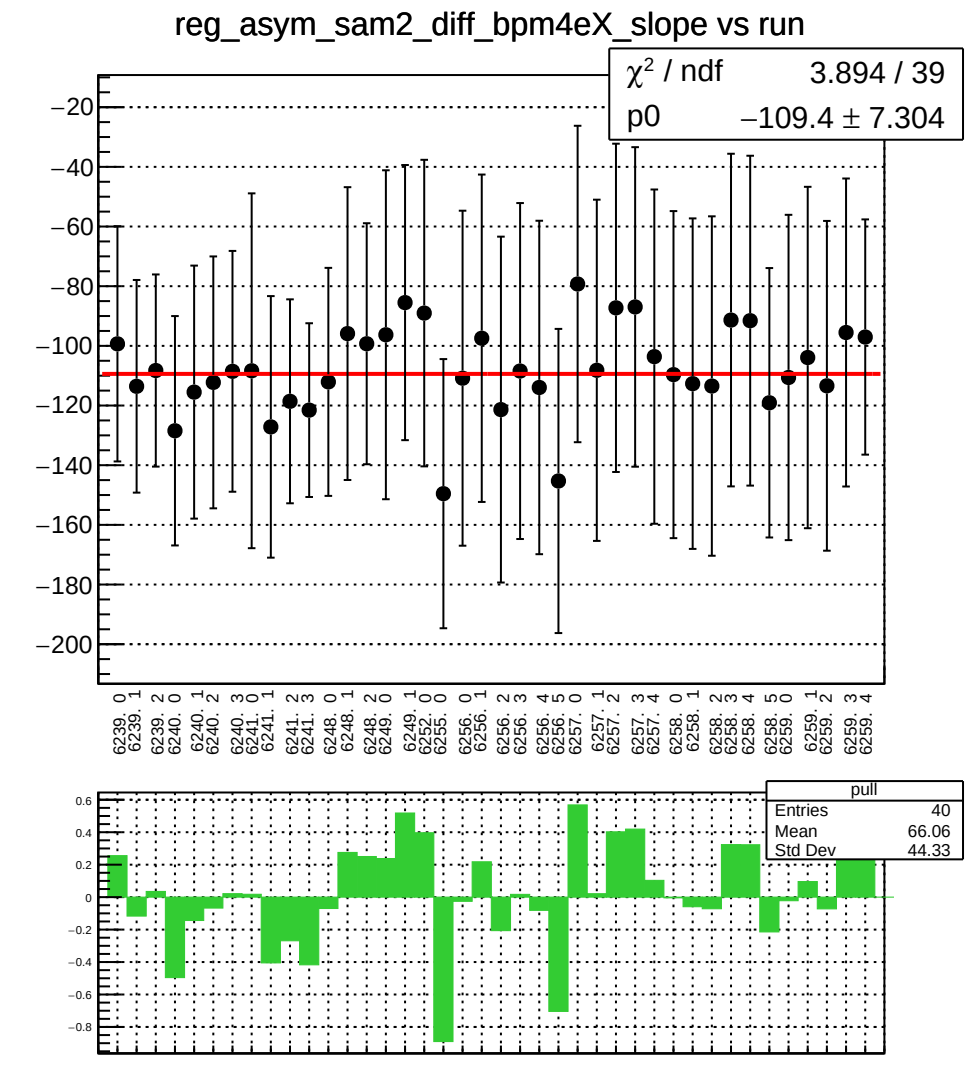

pull1D
Entries 40
Mean 6.728e−05
Std Dev 0.3188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

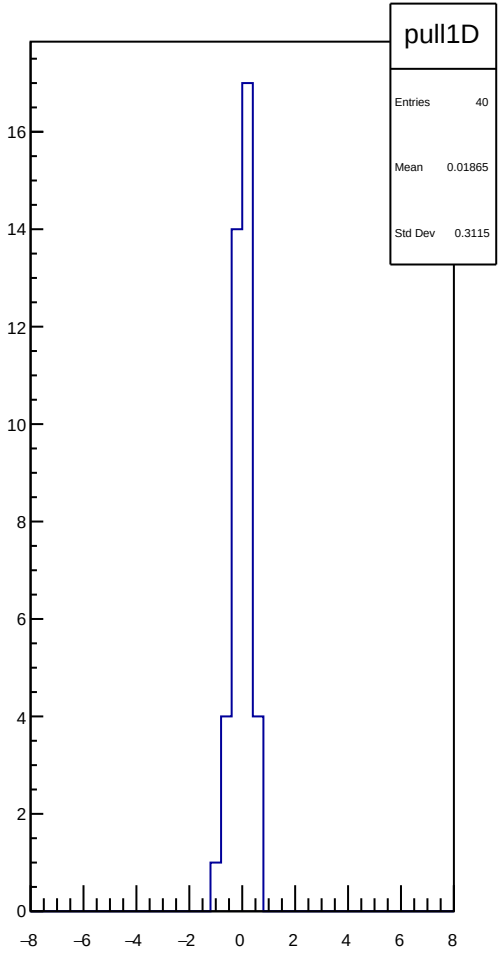

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 3.062 / 39
p0 −89.02 ± 6.311
pull
Entries 40
Mean 68.81
Std Dev 45.59

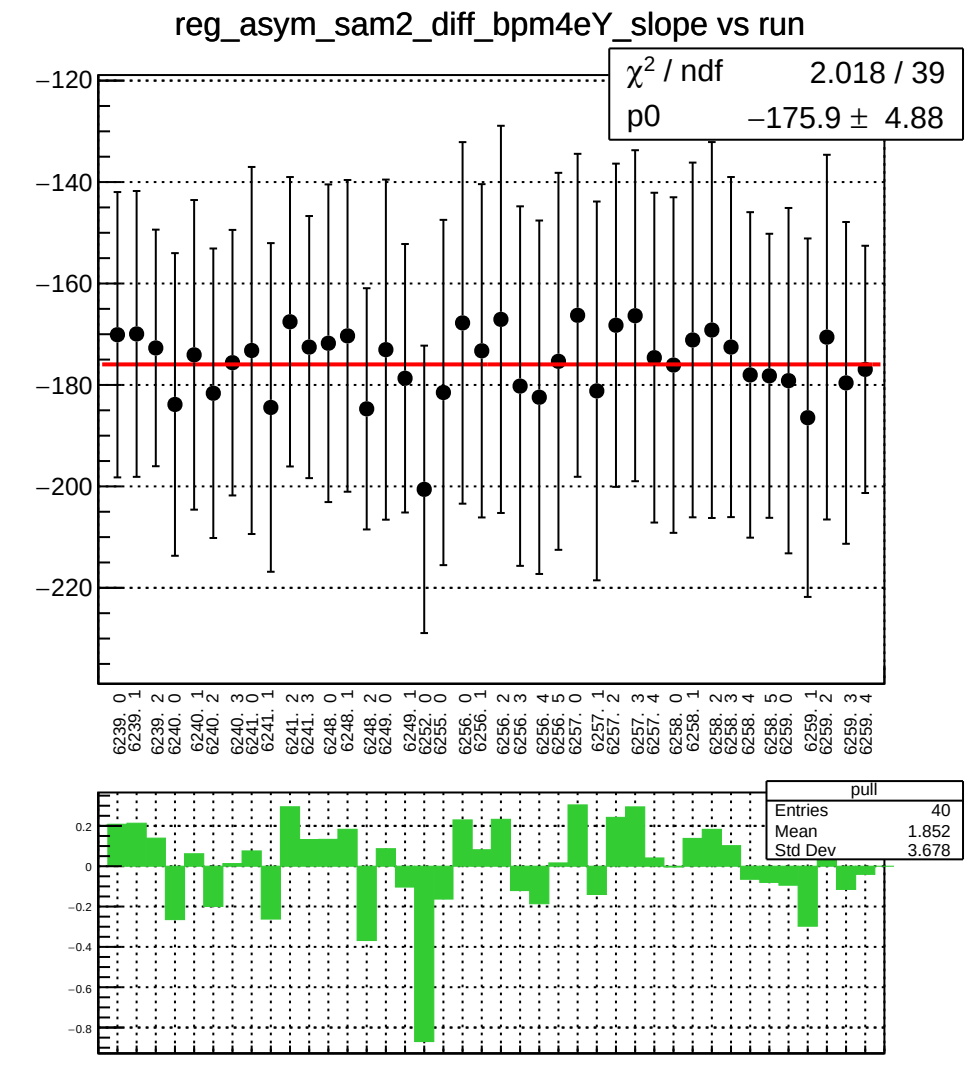

pull1D
Entries 40
Mean −0.009446
Std Dev 0.2765

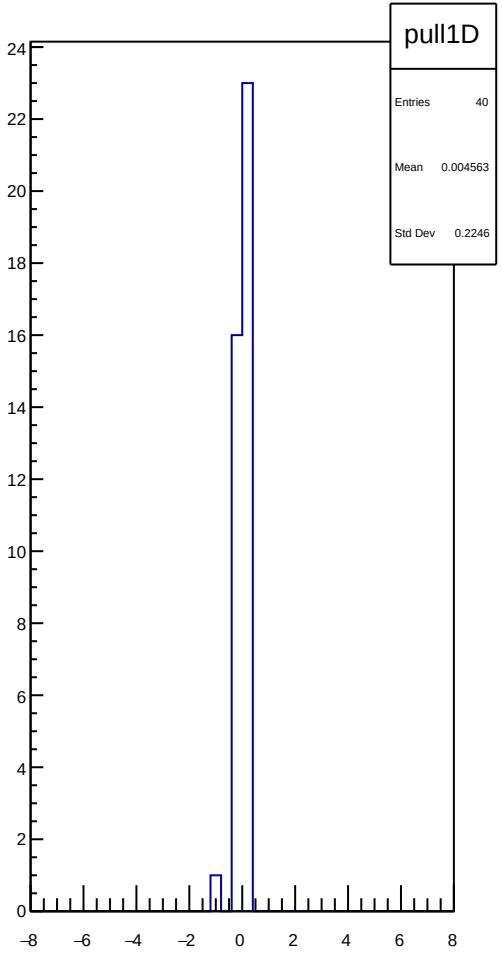

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.69 / 39
p0 −24.31 ± 4.455
20
0
−20
−40
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20.2
Std Dev 4.46
0.8
0.6
0.4
0.2
0
−0.2

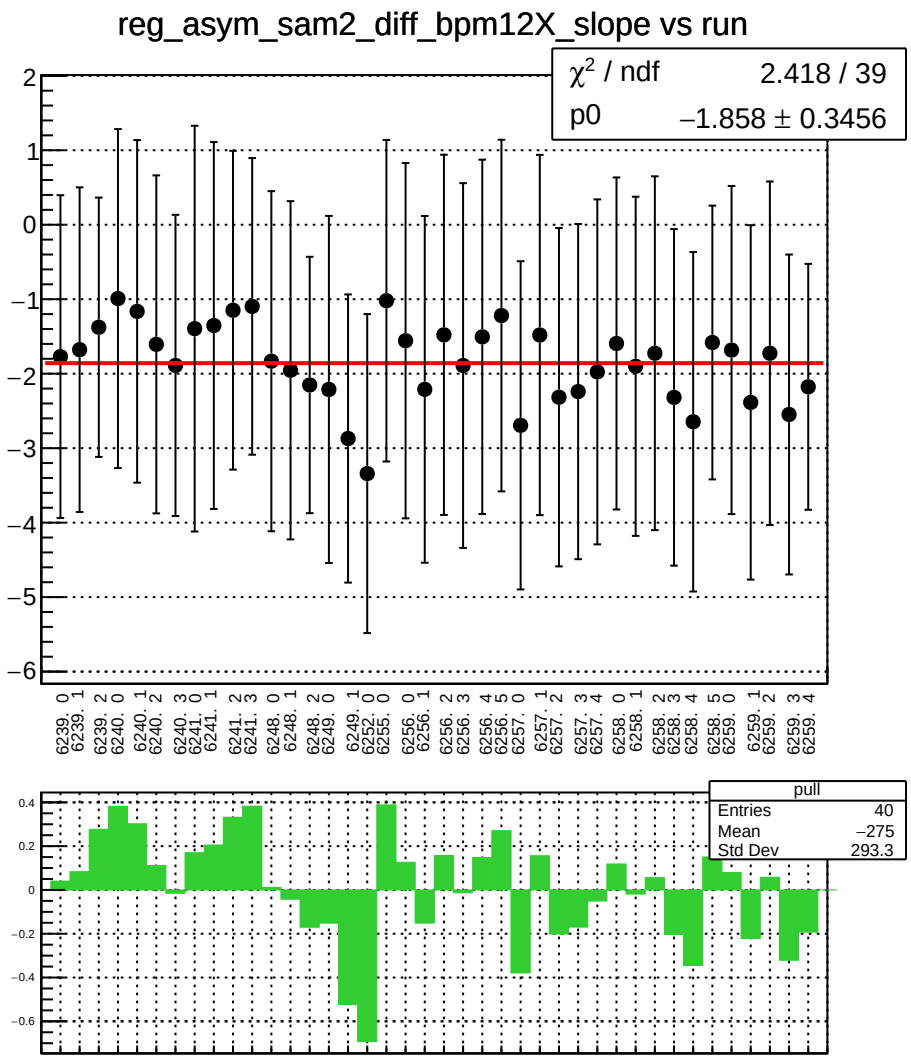

pull1D
Entries 40
Mean −0.006175
Std Dev 0.2054
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

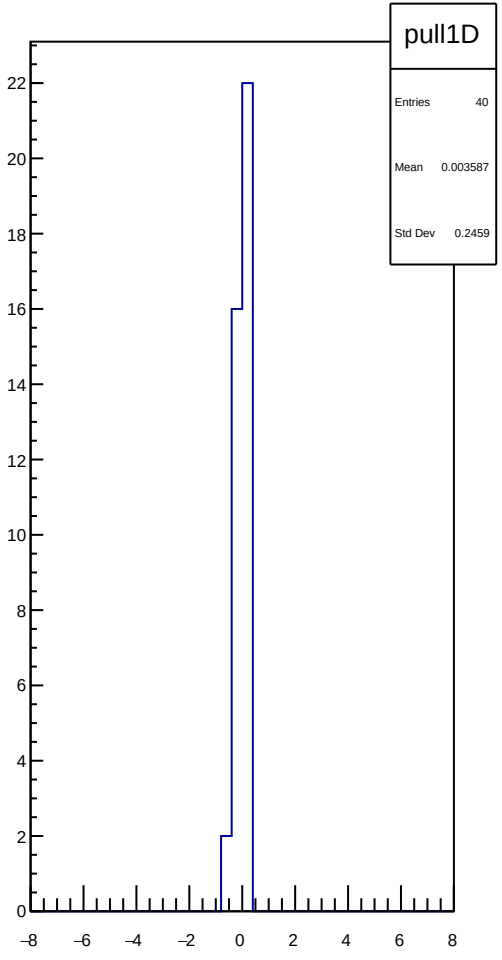

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.894 / 39
p0 −109.4 ± 7.304
pull
Entries 40
Mean 66.06
Std Dev 44.33

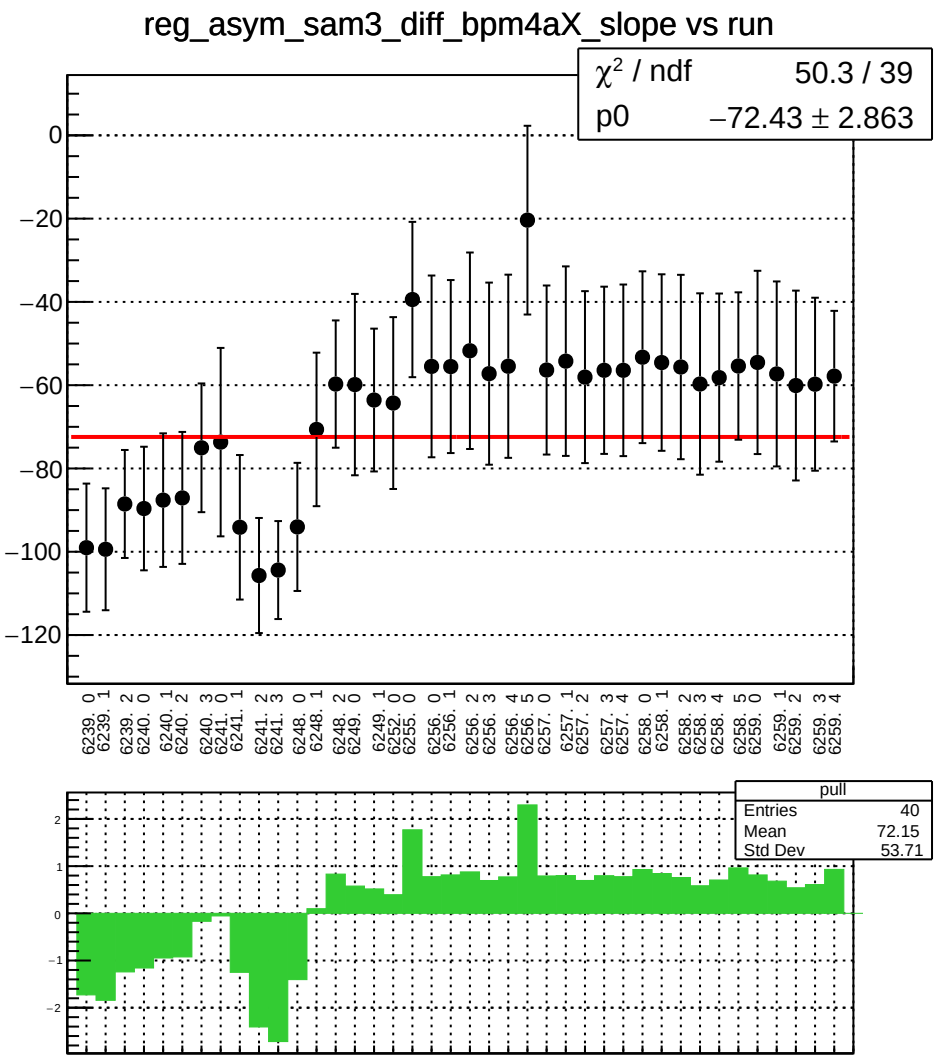

pull1D
Entries 40
Mean 0.01865
Std Dev 0.3115

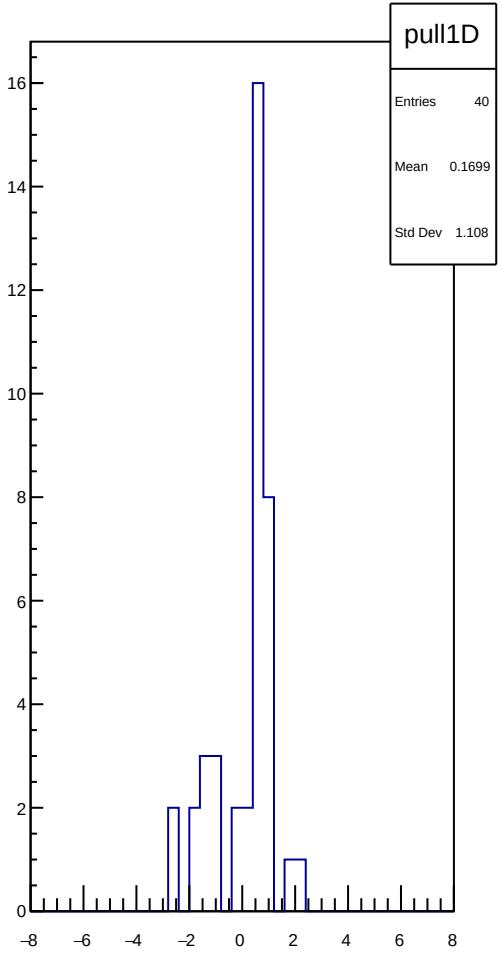

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.018 / 39
p0 −175.9 ± 4.88
−120
−140
−160
−180
−200
−220
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1.852
Std Dev 3.678
0.2
0
−0.2
−0.4
−0.6
−0.8

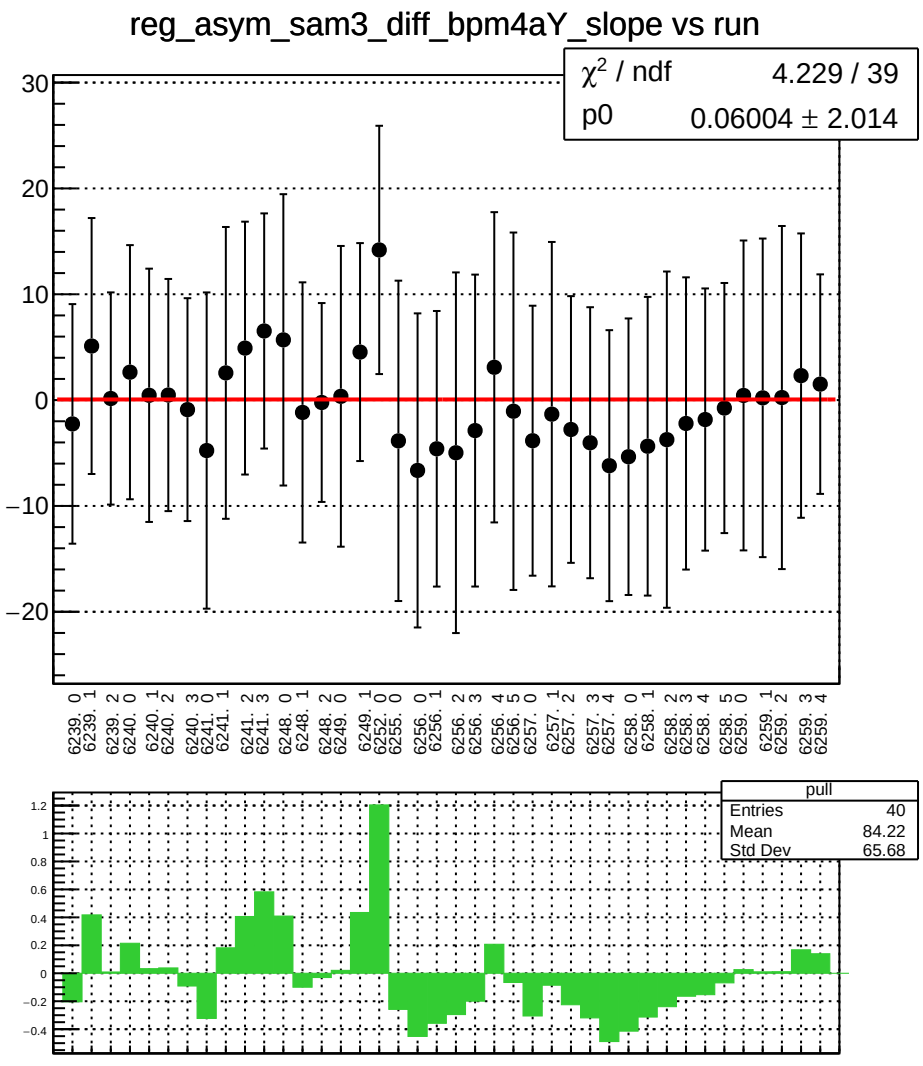

pull1D
Entries 40
Mean 0.004563
Std Dev 0.2246
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

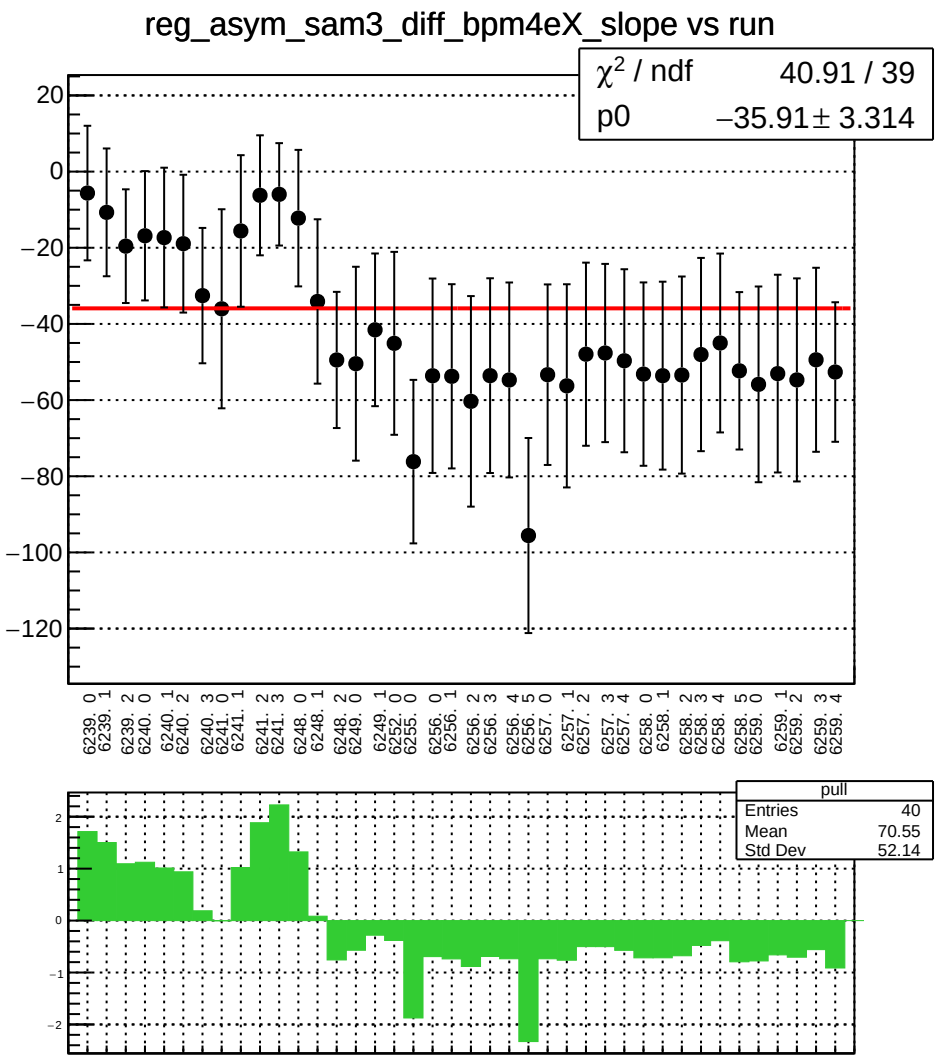

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.418 / 39
p0 −1.858 ± 0.3456
pull
Entries 40
Mean −275
Std Dev 293.3

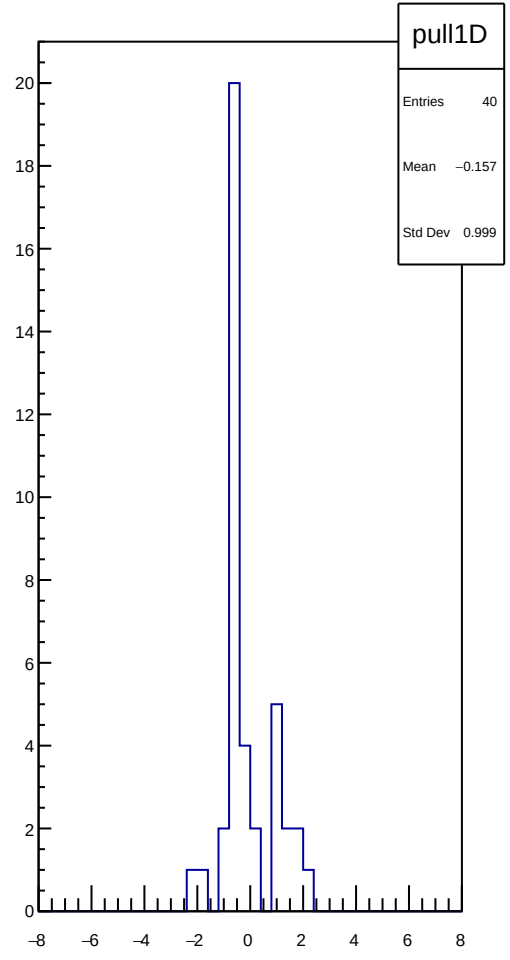

pull1D
Entries 40
Mean 0.003587
Std Dev 0.2459

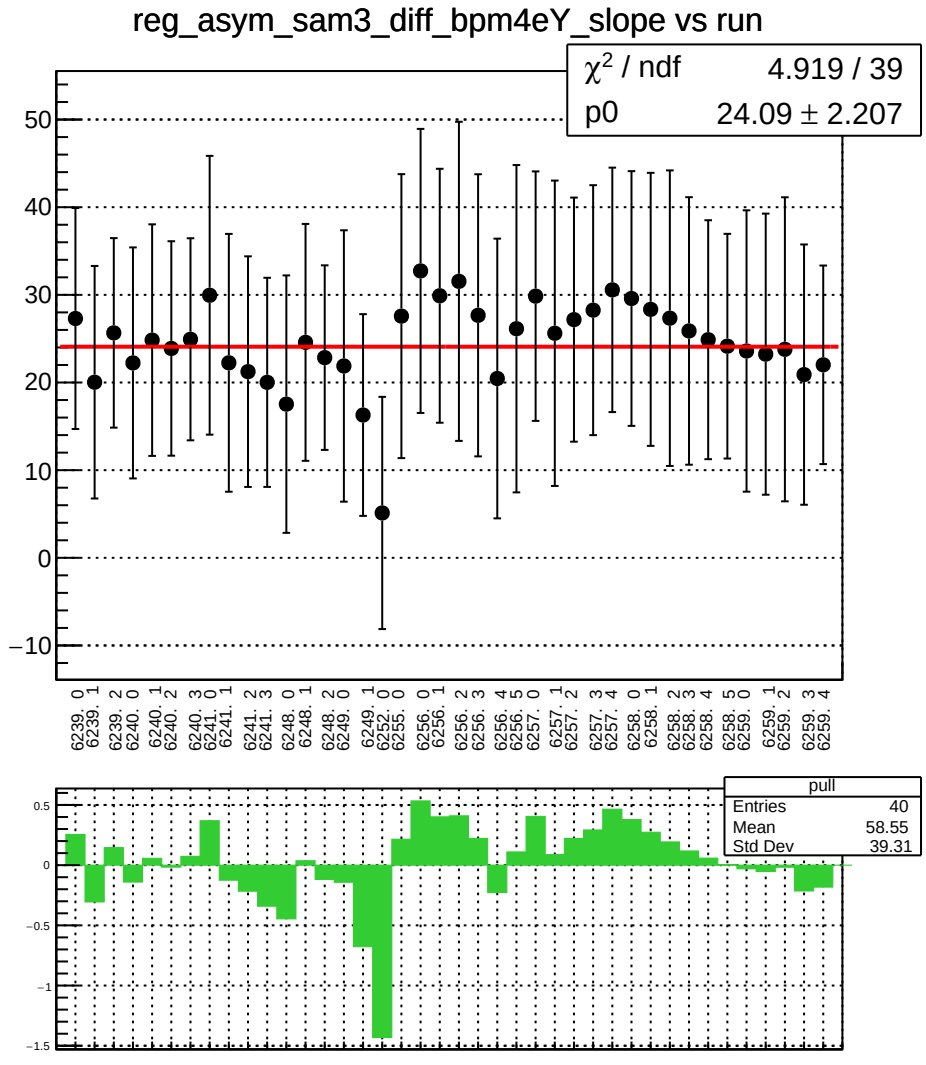

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 50.3 / 39
p0 −72.43 ± 2.863
0
−20
−40
−60
−80
−100
−120
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 72.15
Std Dev 53.71
2
1
0
−1
−2

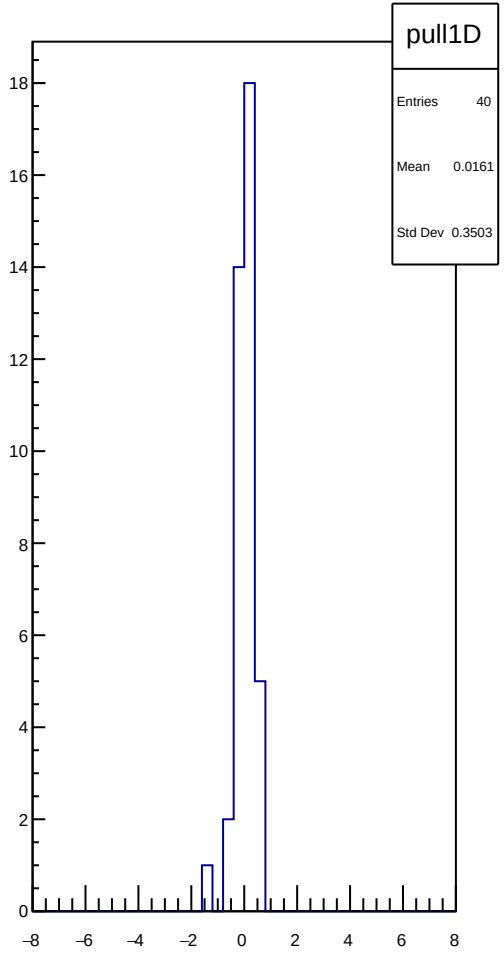

pull1D
Entries 40
Mean 0.1699
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

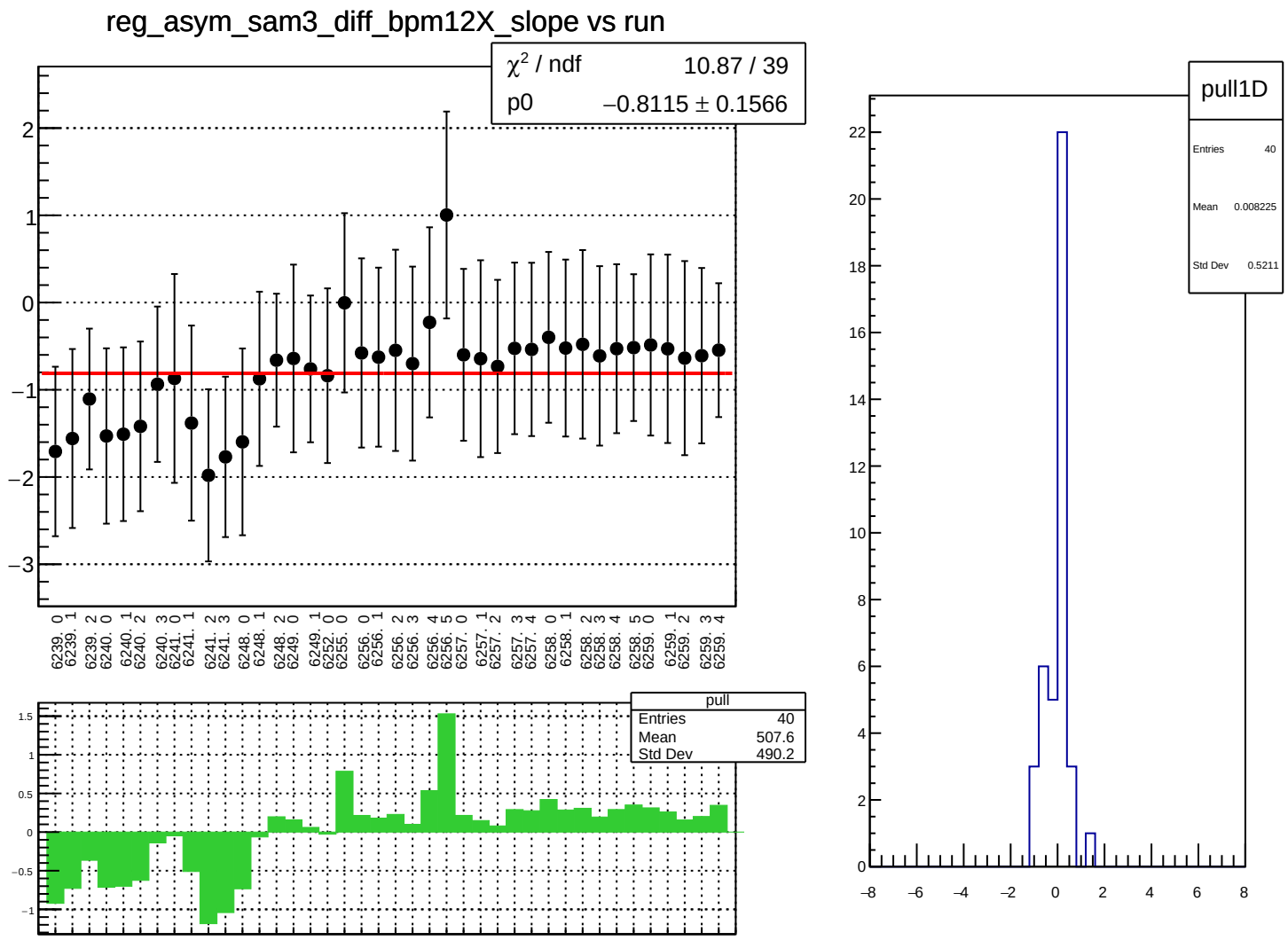

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.229 / 39
p0 0.06004 ± 2.014
30
20
10
0
−10
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 84.22
Std Dev 65.68
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 40
Mean −0.01594
Std Dev 0.3248
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

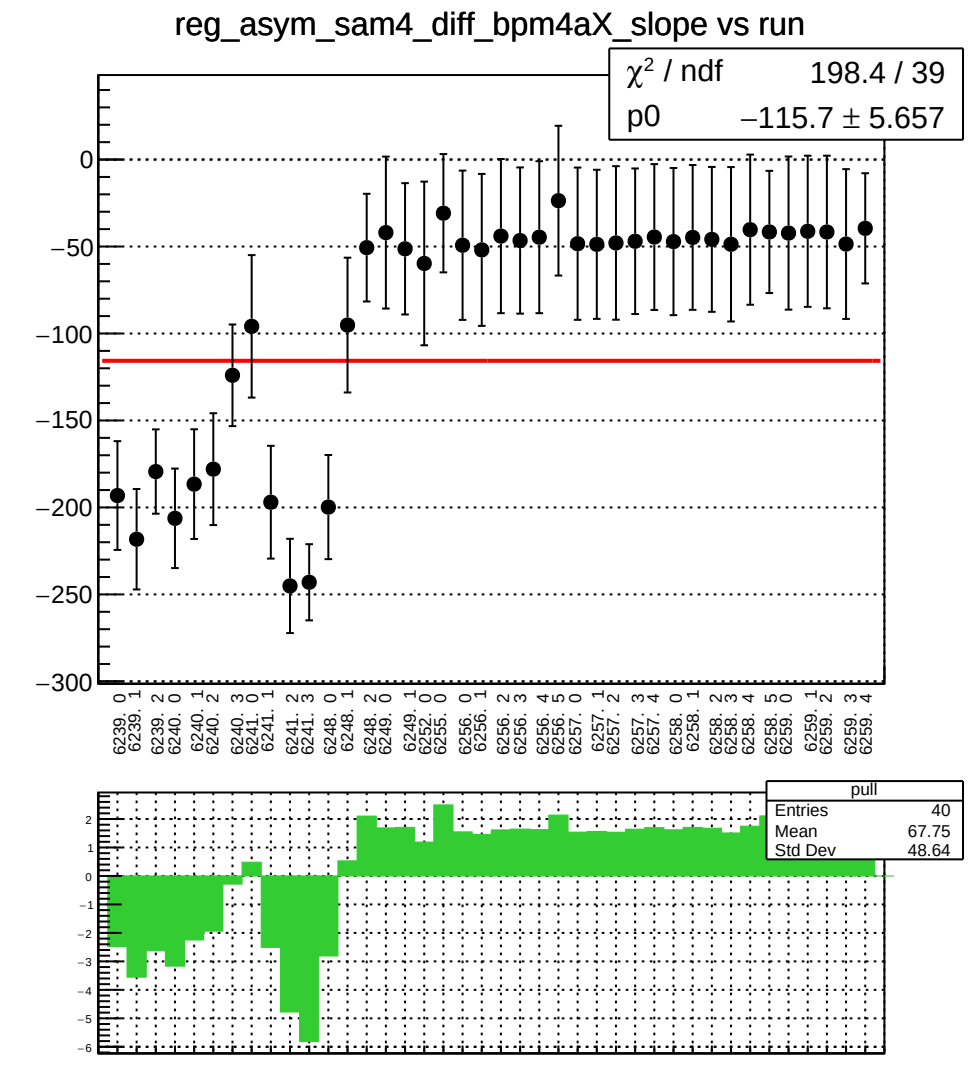

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 40.91 / 39
p0 −35.91 ± 3.314
pull
Entries 40
Mean 70.55
Std Dev 52.14

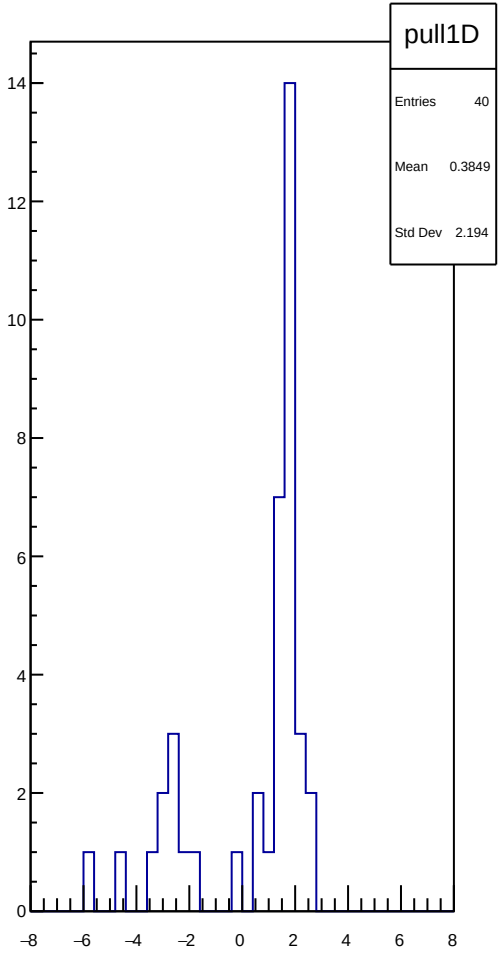

pull1D
Entries 40
Mean −0.157
Std Dev 0.999

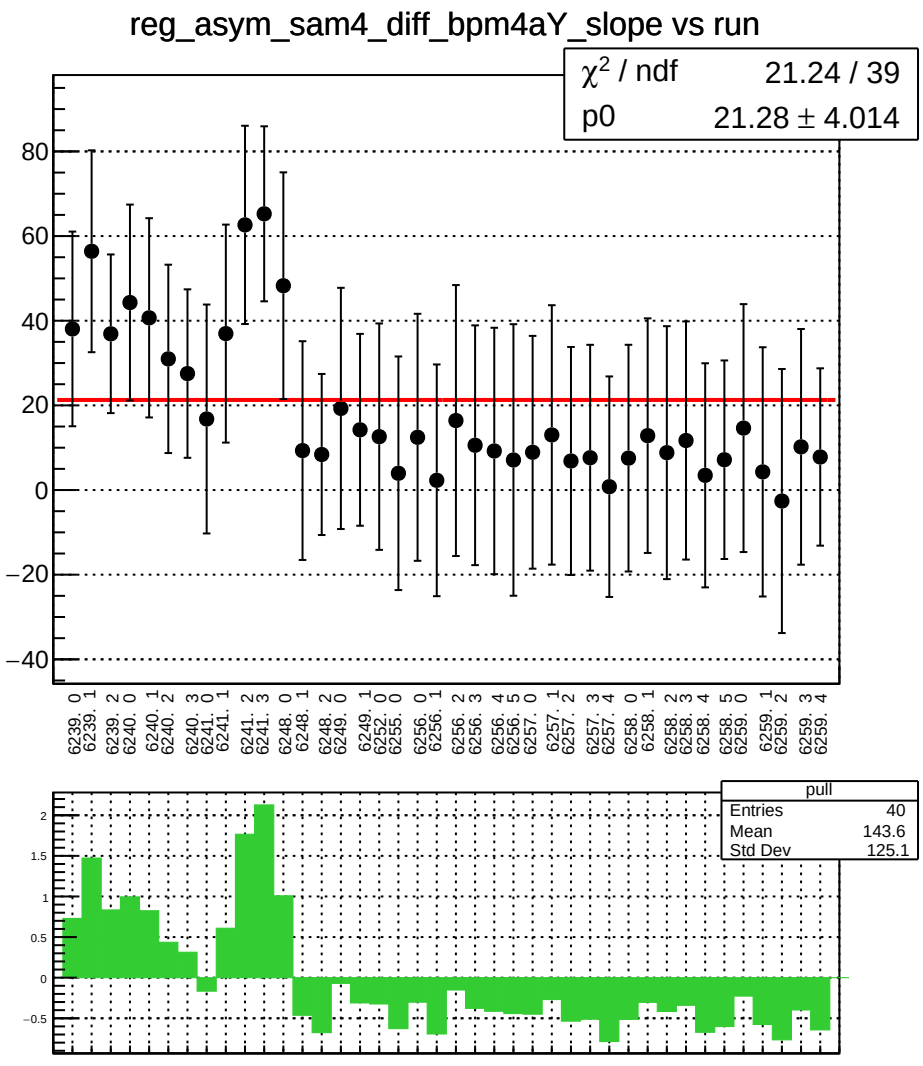

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.919 / 39
p0 24.09 ± 2.207
pull
Entries 40
Mean 58.55
Std Dev 39.31

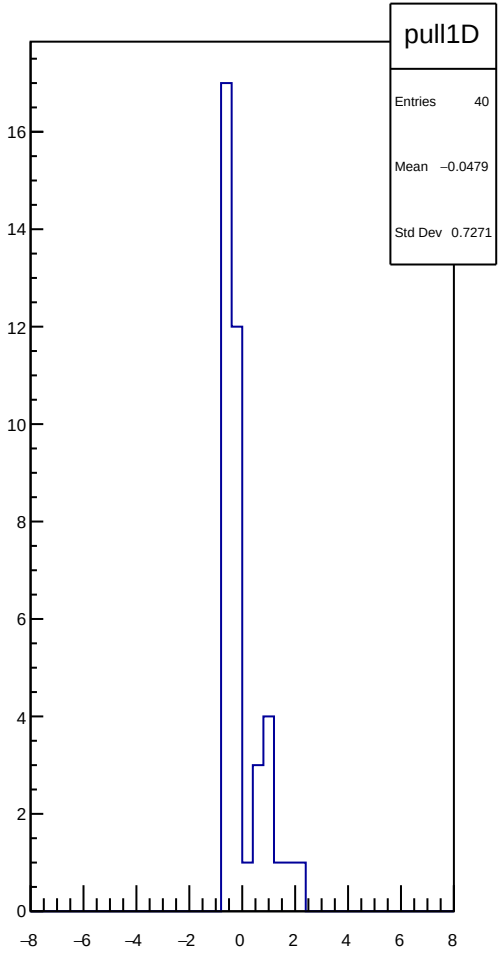

pull1D
Entries 40
Mean 0.0161
Std Dev 0.3503

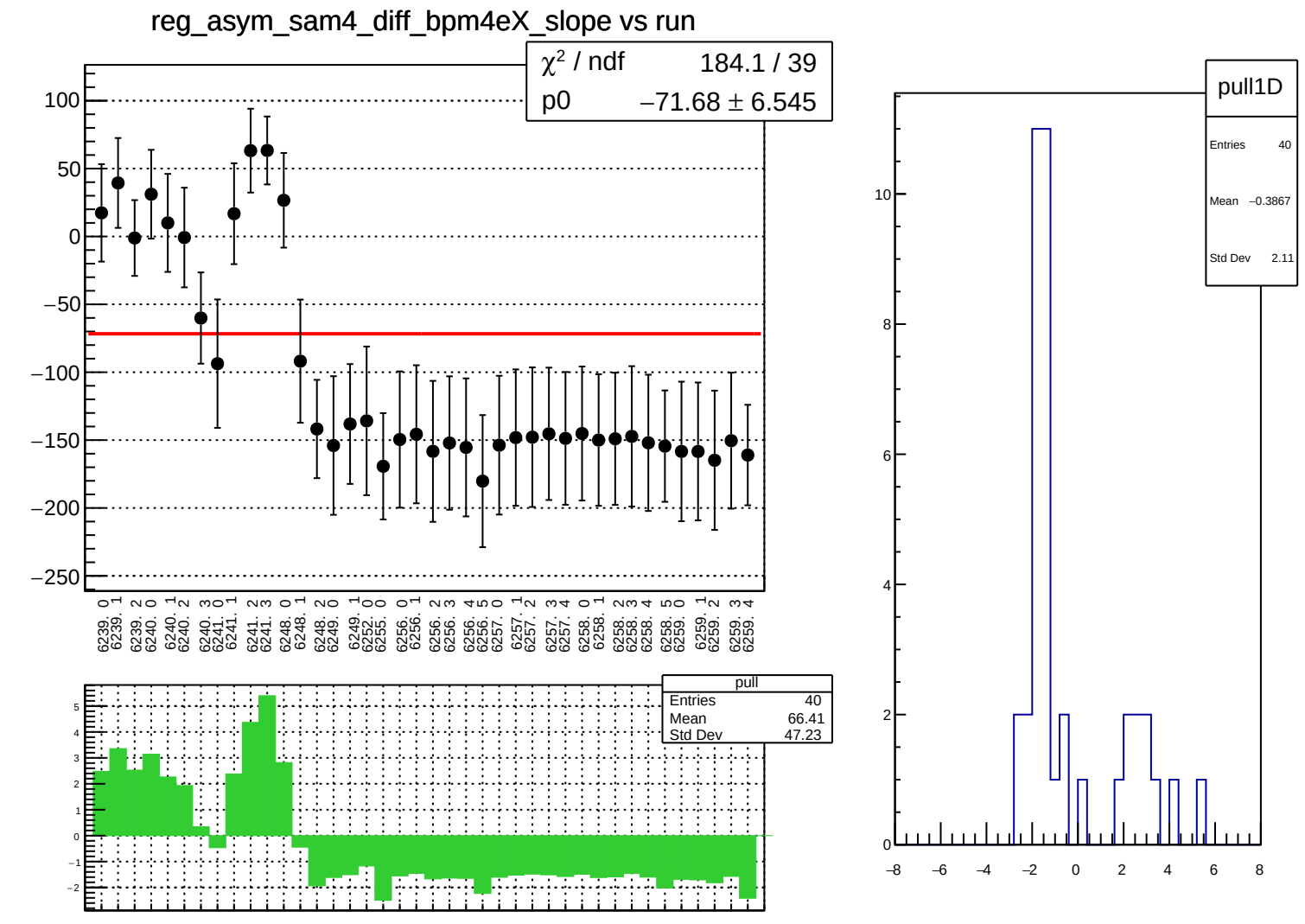

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 10.87 / 39
p0 −0.8115 ± 0.1566
pull
Entries 40
Mean 507.6
Std Dev 490.2
pull1D
Entries 40
Mean 0.008225
Std Dev 0.5211

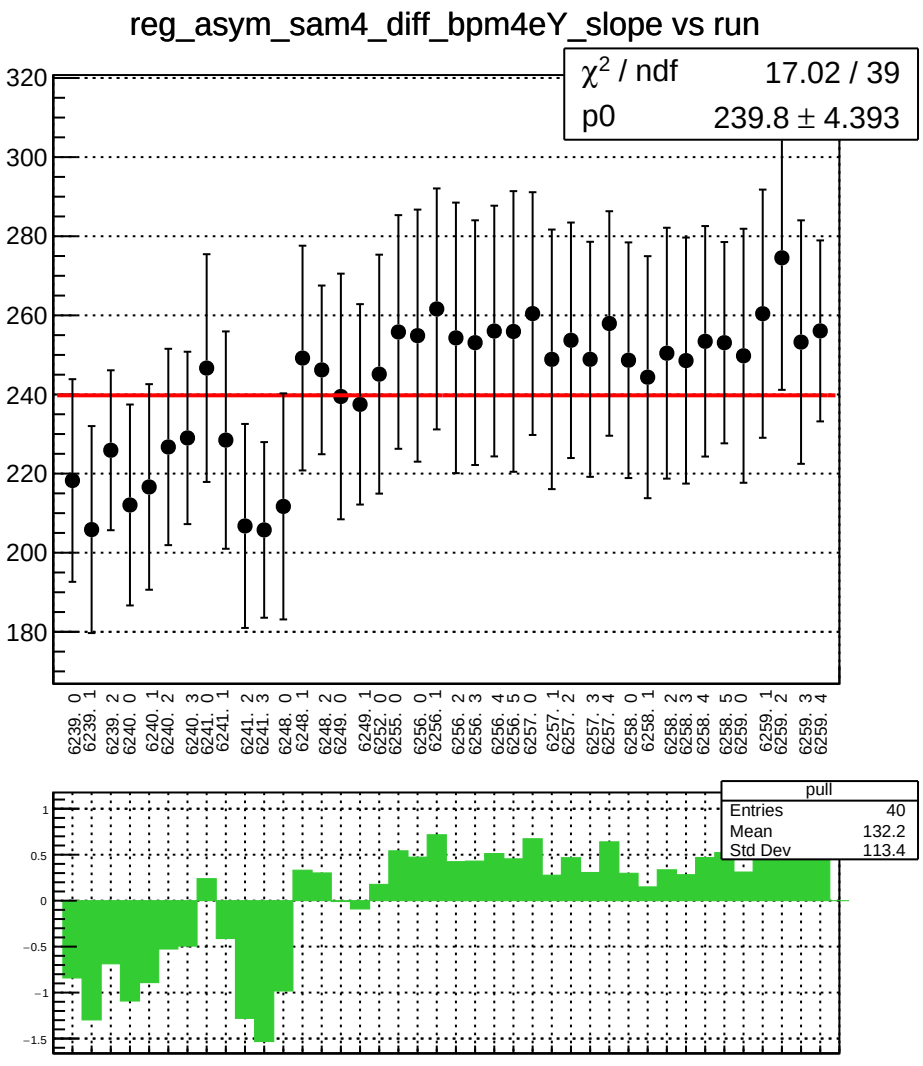

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 198.4 / 39
p0 −115.7 ± 5.657
pull
Entries 40
Mean 67.75
Std Dev 48.64

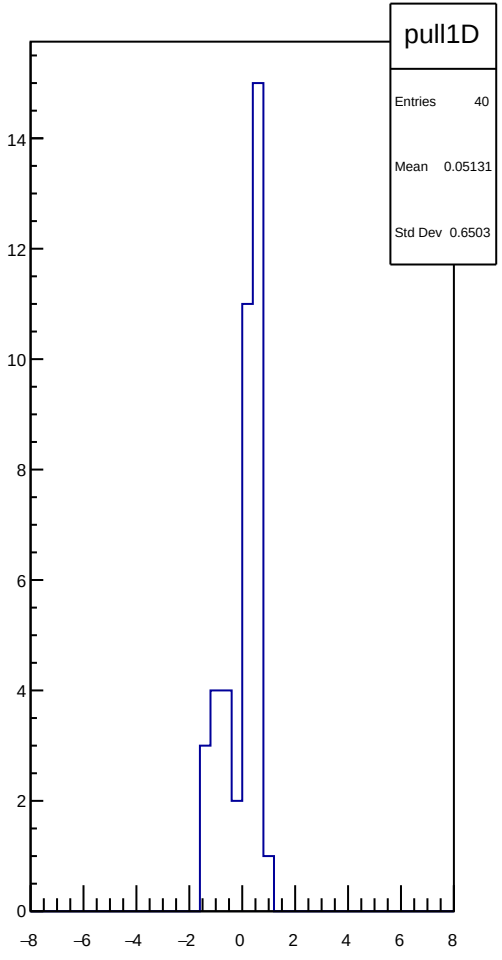

pull1D
Entries 40
Mean 0.3849
Std Dev 2.194

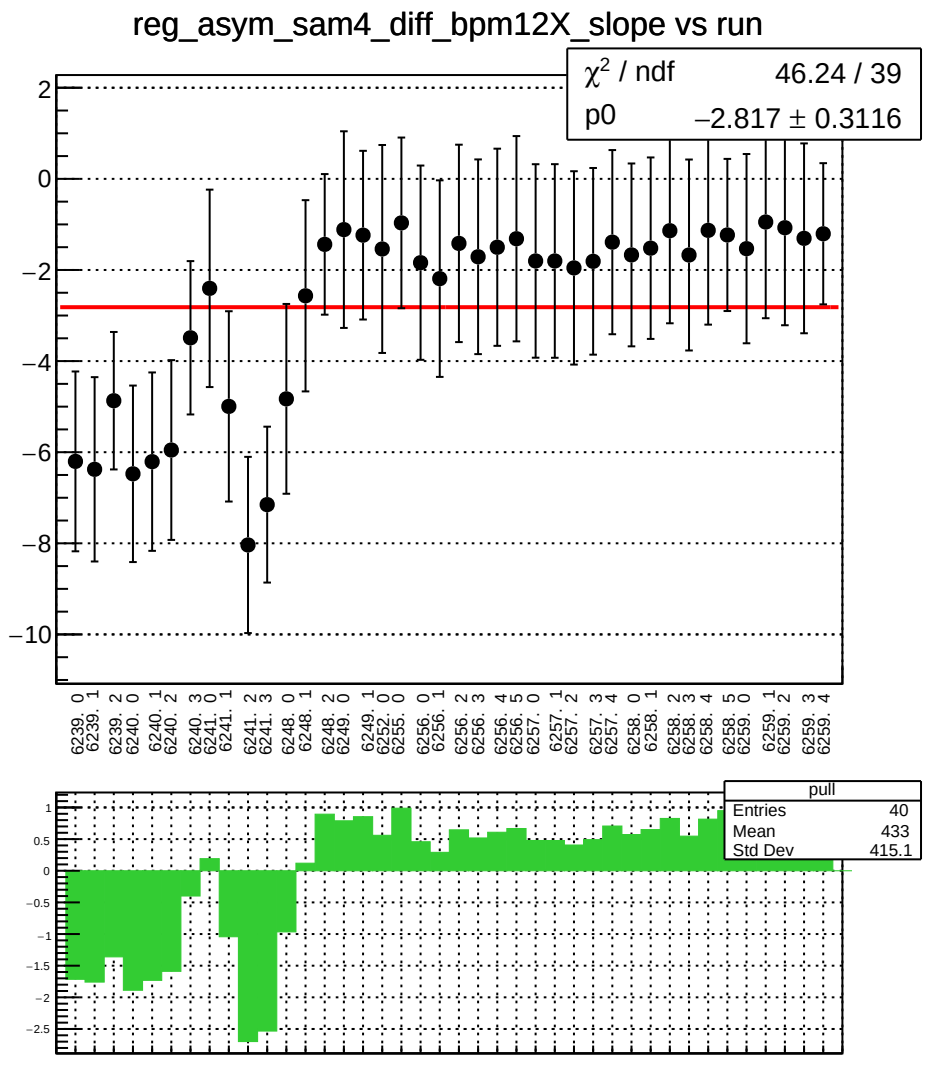

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 21.24 / 39
p0 21.28 ± 4.014
80
60
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 143.6
Std Dev 125.1
2
1.5
1
0.5
0
−0.5

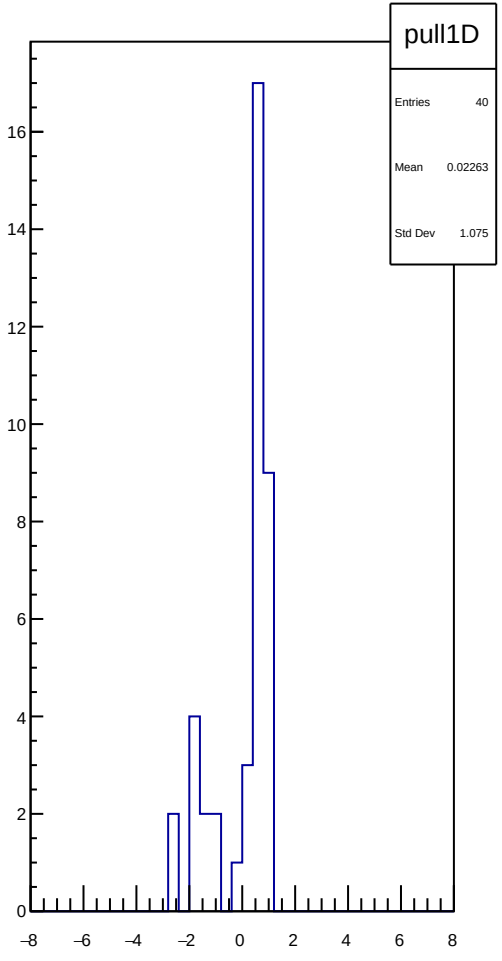

pull1D
Entries 40
Mean −0.0479
Std Dev 0.7271
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

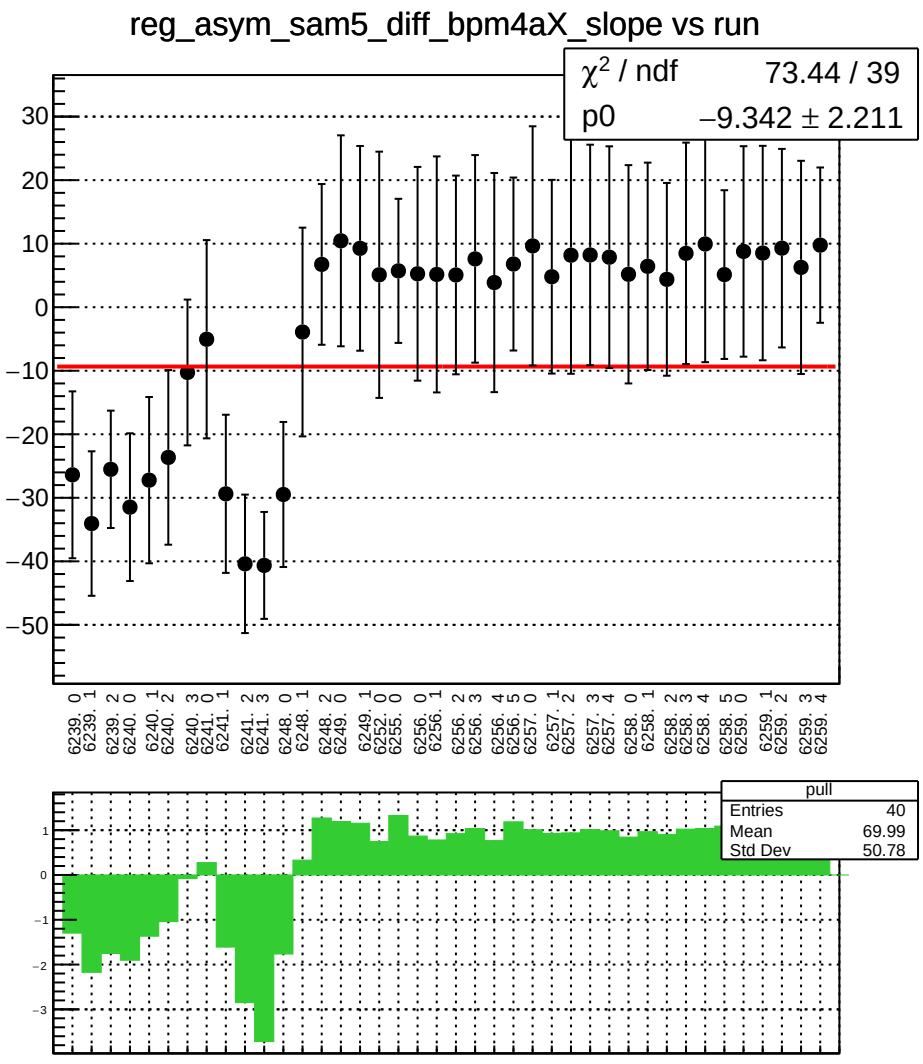

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 184.1 / 39
p0 −71.68 ± 6.545
pull
Entries 40
Mean 66.41
Std Dev 47.23
pull1D
Entries 40
Mean −0.3867
Std Dev 2.11

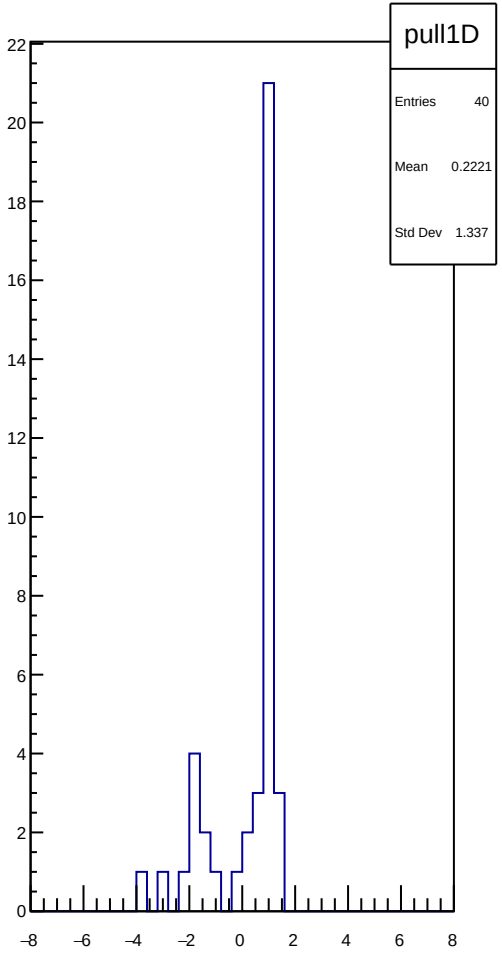

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 17.02 / 39
p0 239.8 ± 4.393
pull
Entries 40
Mean 132.2
Std Dev 113.4

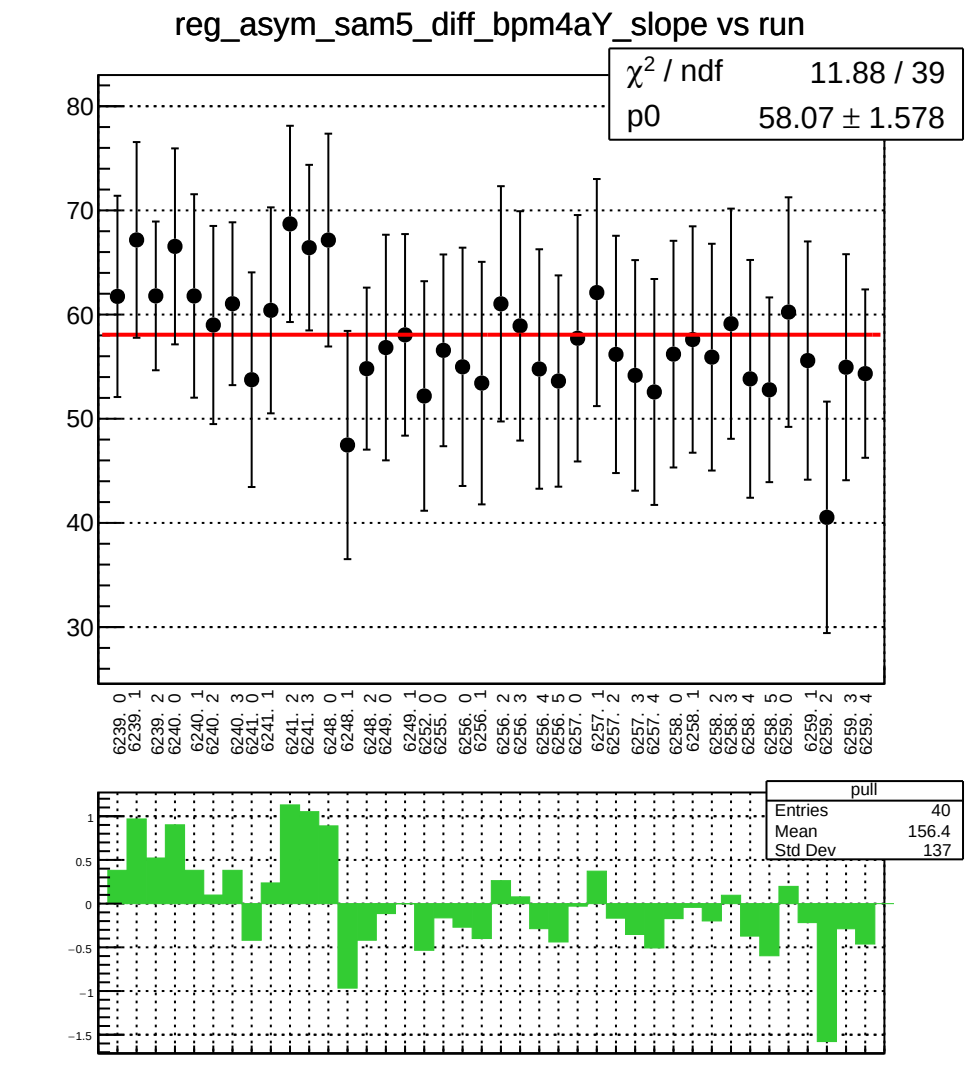

pull1D
Entries 40
Mean 0.05131
Std Dev 0.6503

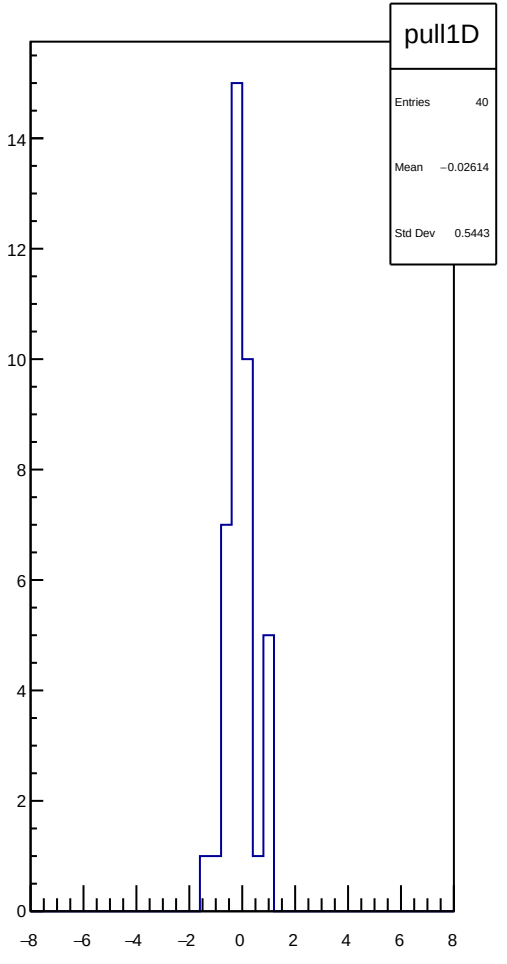

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 46.24 / 39
p0 −2.817 ± 0.3116
pull
Entries 40
Mean 433
Std Dev 415.1

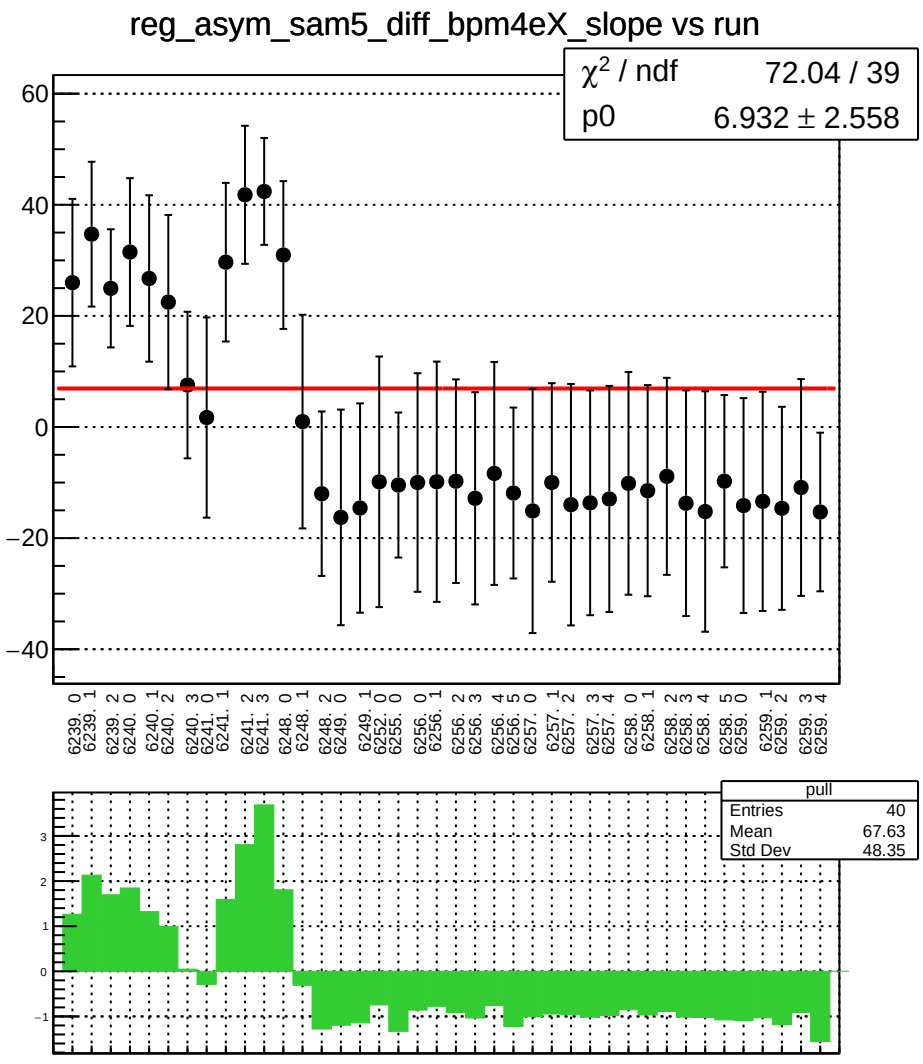

pull1D
Entries 40
Mean 0.02263
Std Dev 1.075

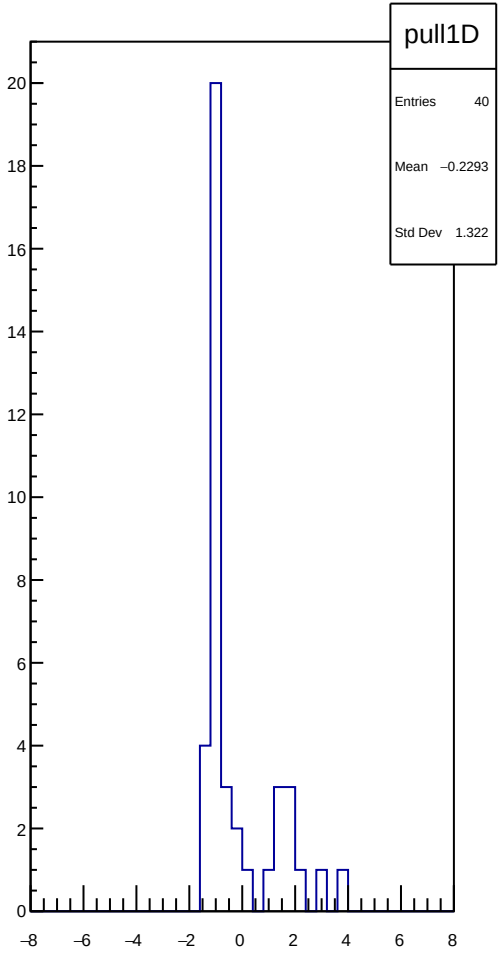

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 73.44 / 39
p0 −9.342 ± 2.211
pull
Entries 40
Mean 69.99
Std Dev 50.78

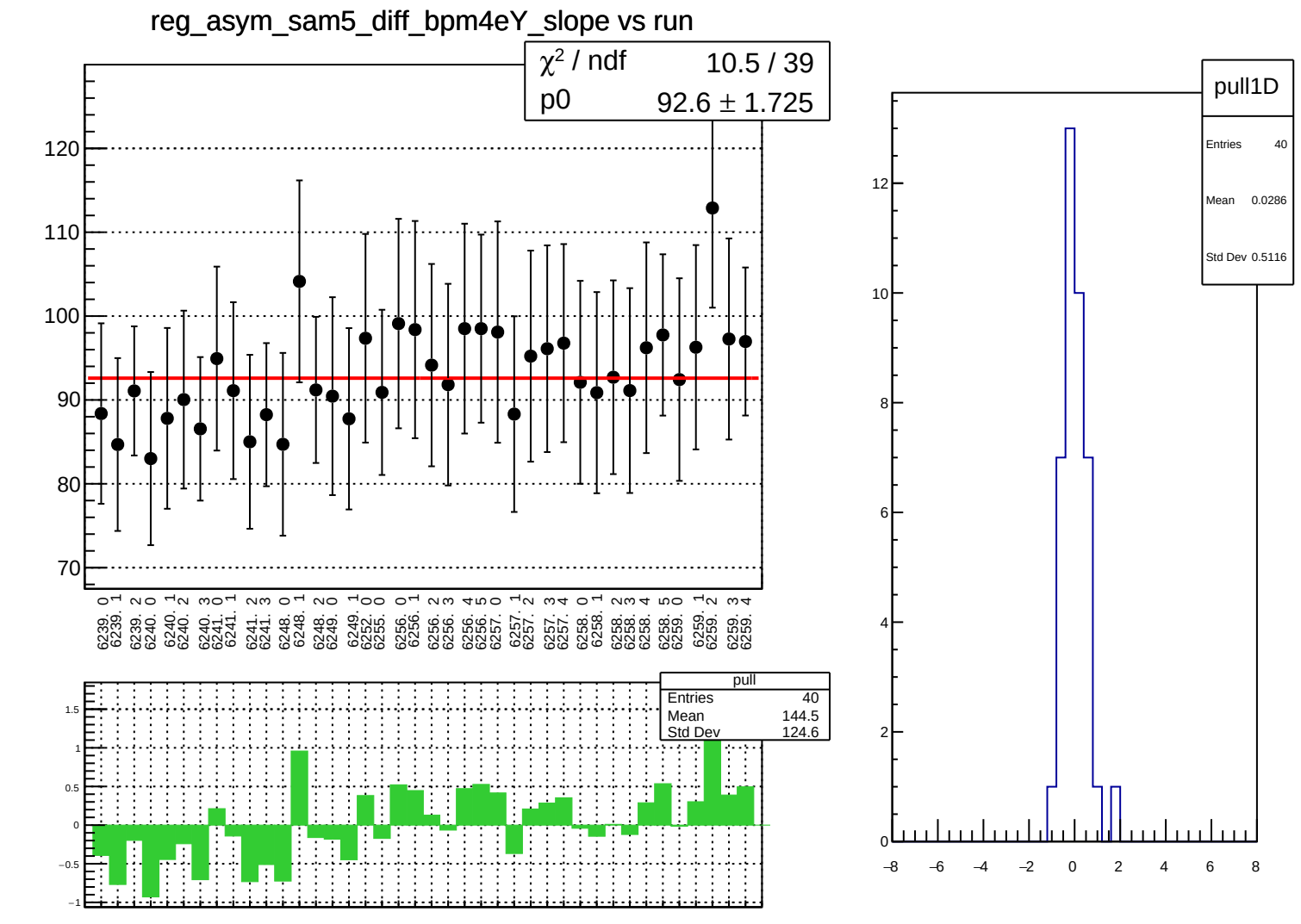

pull1D
Entries 40
Mean 0.2221
Std Dev 1.337

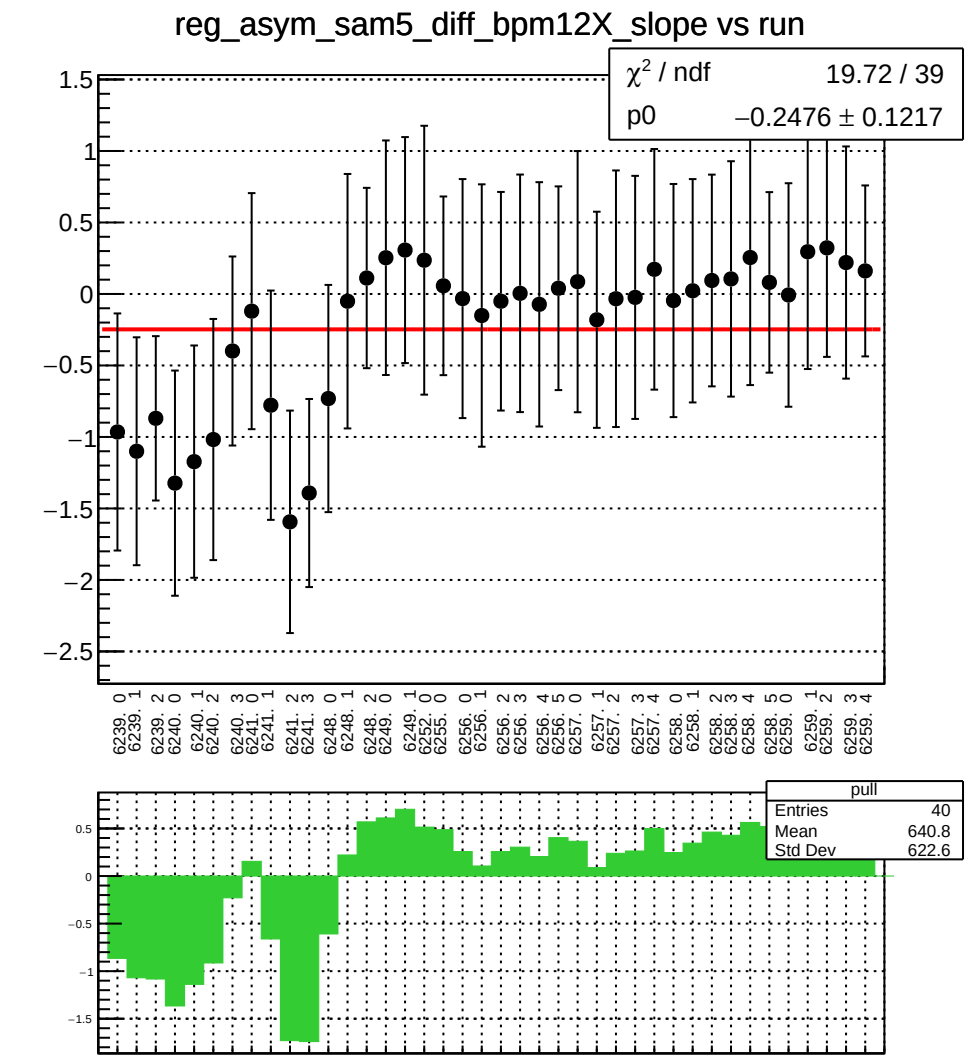

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 11.88 / 39
p0 58.07 ± 1.578
80
70
60
50
40
30
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 156.4
Std Dev 137
1
0.5
0
−0.5
−1
−1.5

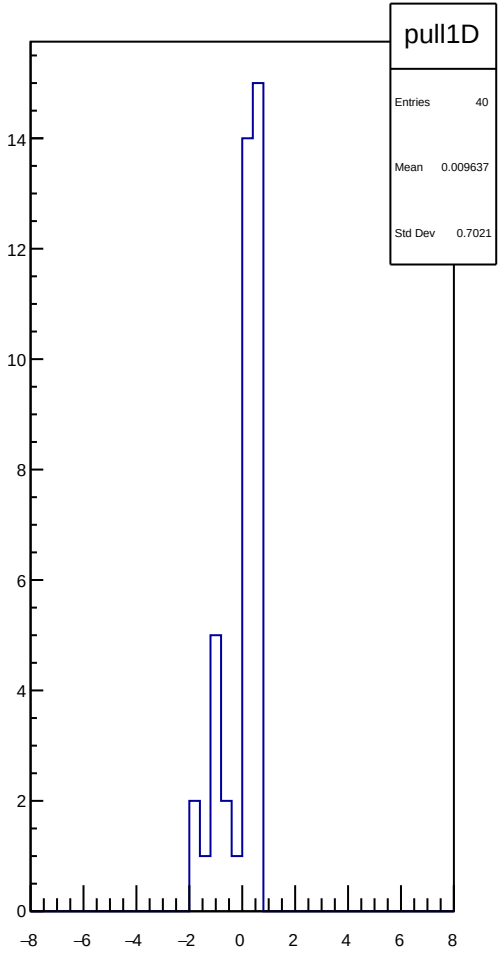

pull1D
Entries 40
Mean −0.02614
Std Dev 0.5443
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

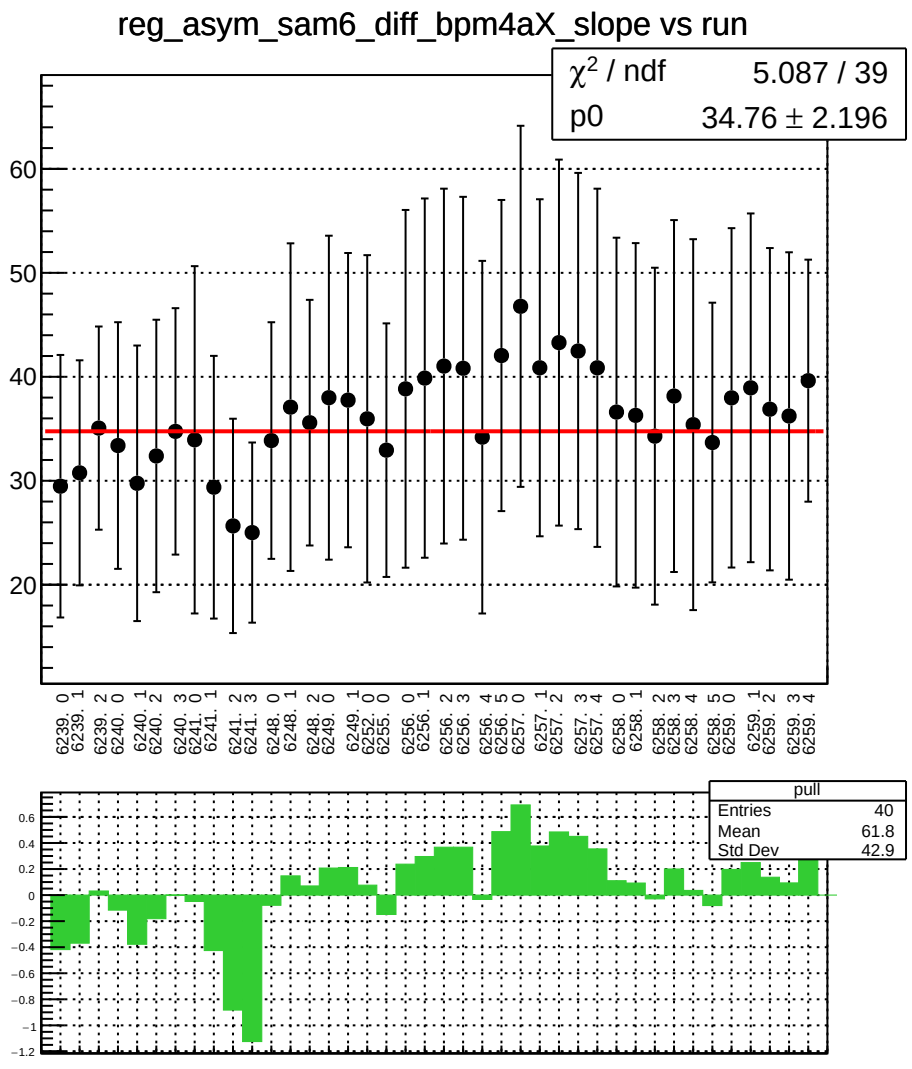

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 72.04 / 39
p0 6.932 ± 2.558
60
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 67.63
Std Dev 48.35
3
2
1
0
−1

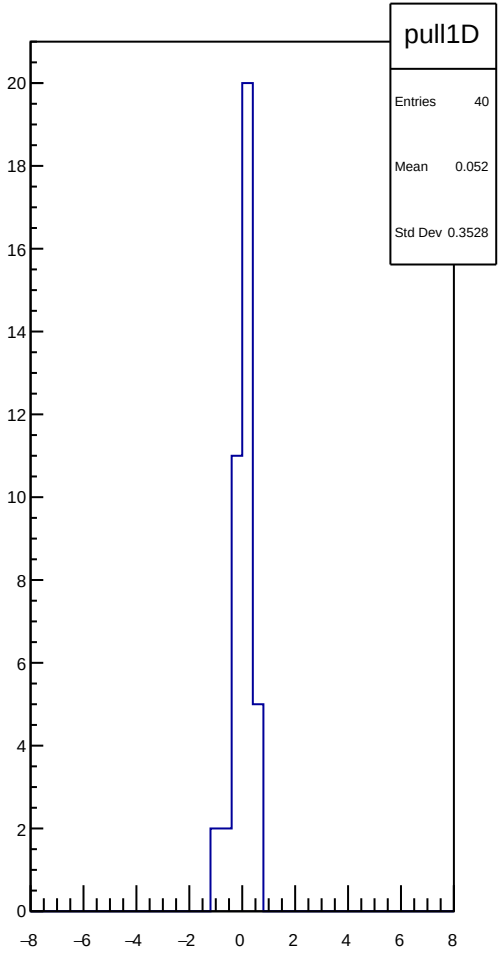

pull1D
Entries 40
Mean −0.2293
Std Dev 1.322
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

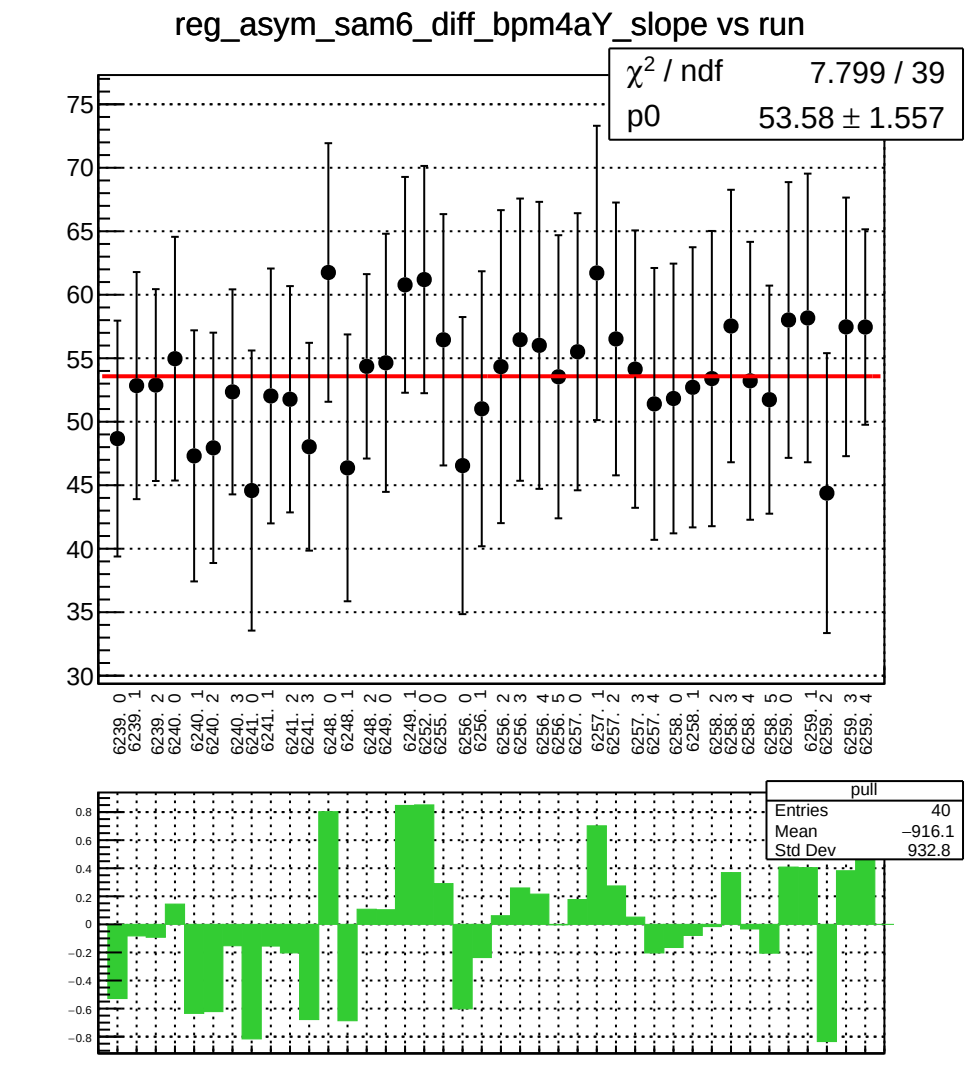

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 10.5 / 39
p0 92.6 ± 1.725
120
110
100
90
80
70
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 144.5
Std Dev 124.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean 0.0286
Std Dev 0.5116
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

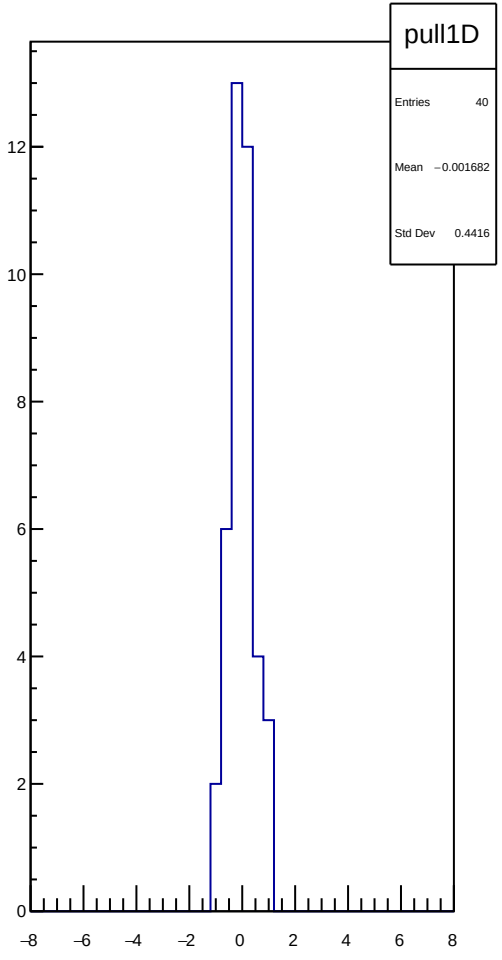

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.72 / 39
p0 −0.2476 ± 0.1217
pull
Entries 40
Mean 640.8
Std Dev 622.6

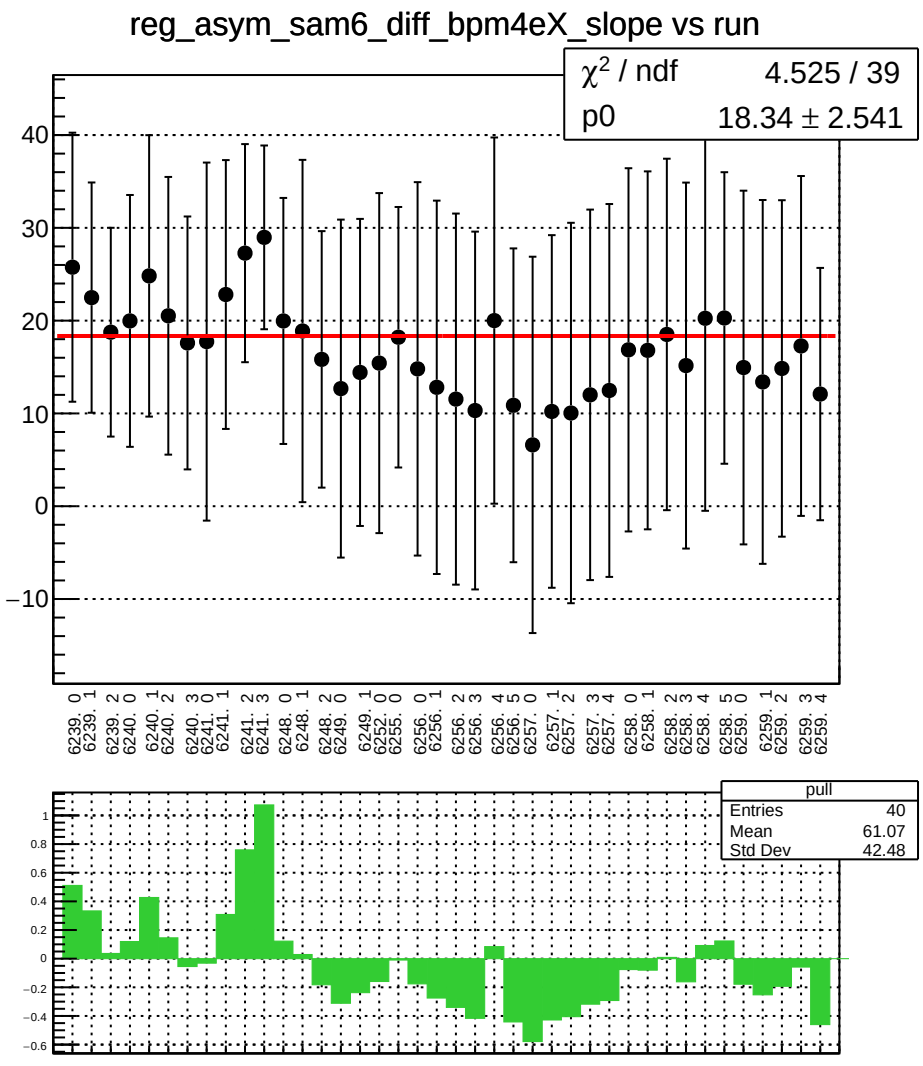

pull1D
Entries 40
Mean 0.009637
Std Dev 0.7021

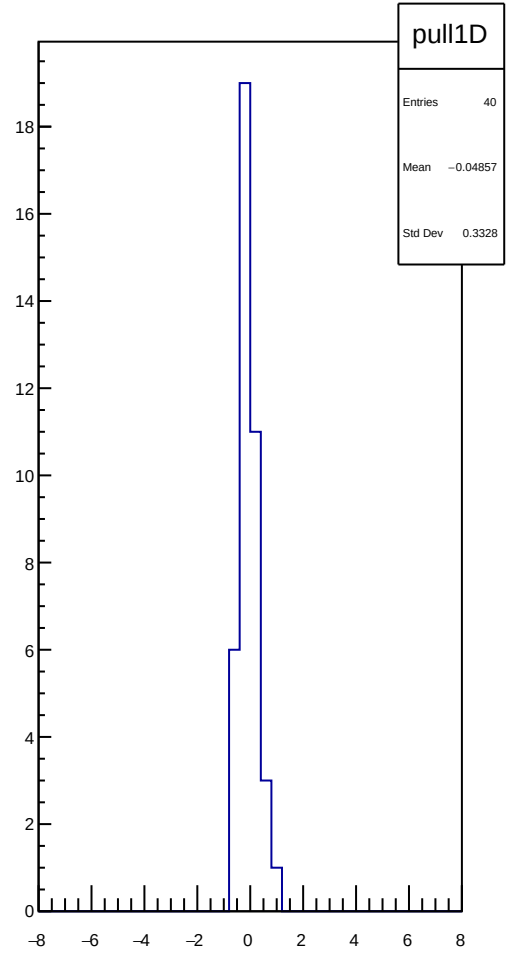

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 5.087 / 39
p0 34.76 ± 2.196
pull
Entries 40
Mean 61.8
Std Dev 42.9

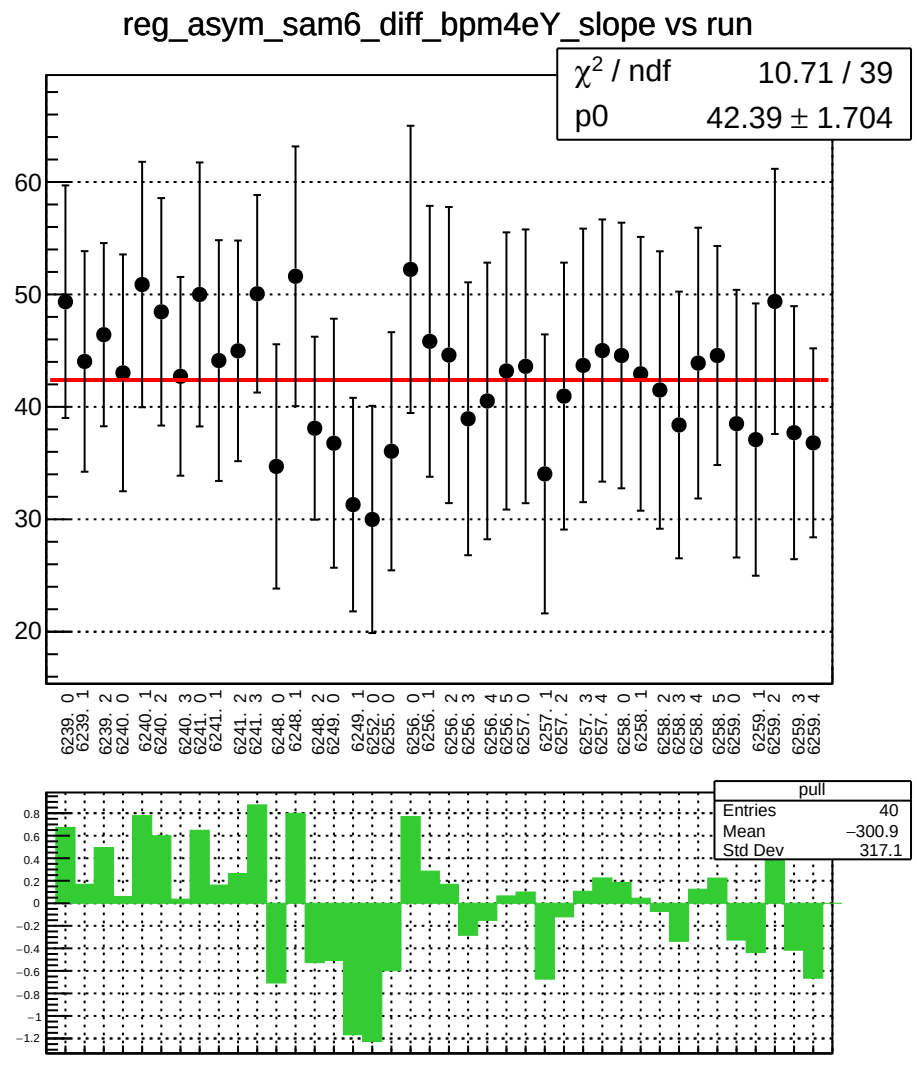

pull1D
Entries 40
Mean 0.052
Std Dev 0.3528

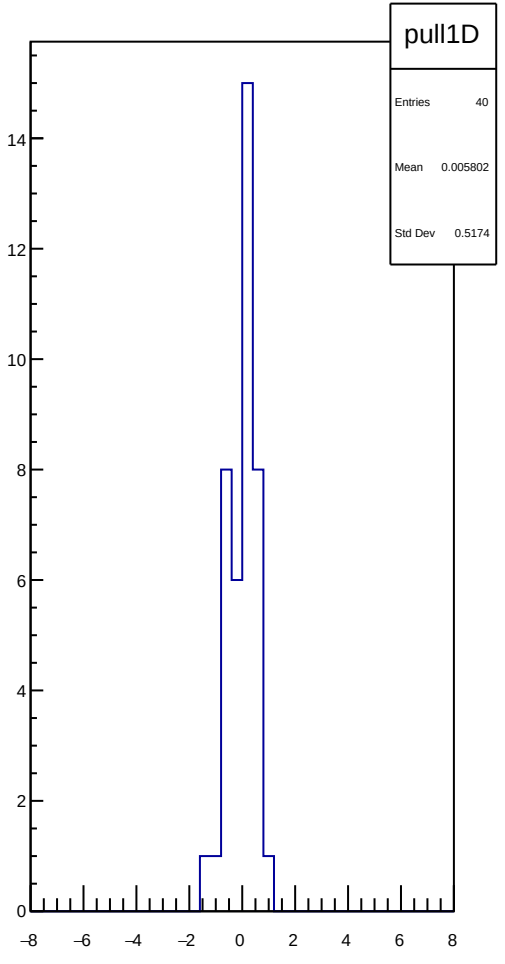

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 7.799 / 39
p0 53.58 ± 1.557
pull
Entries 40
Mean −916.1
Std Dev 932.8

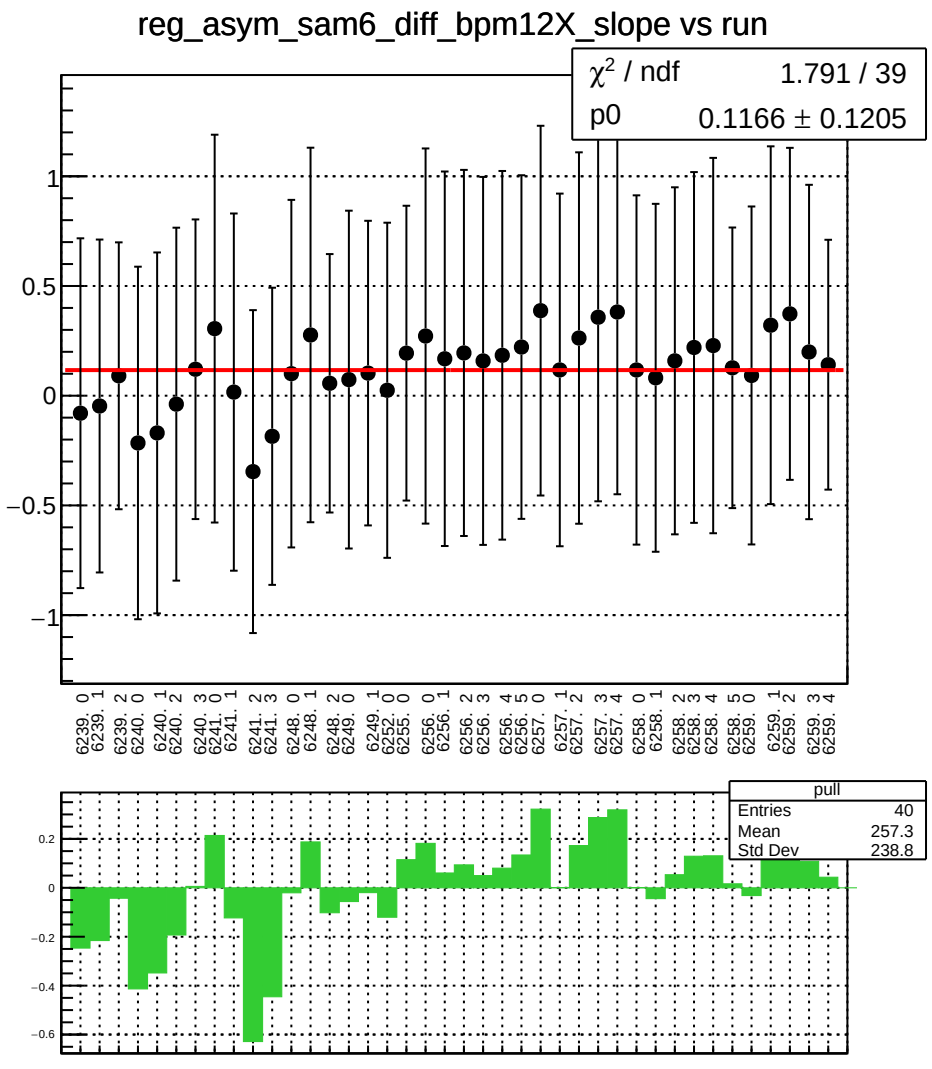

pull1D
Entries 40
Mean −0.001682
Std Dev 0.4416

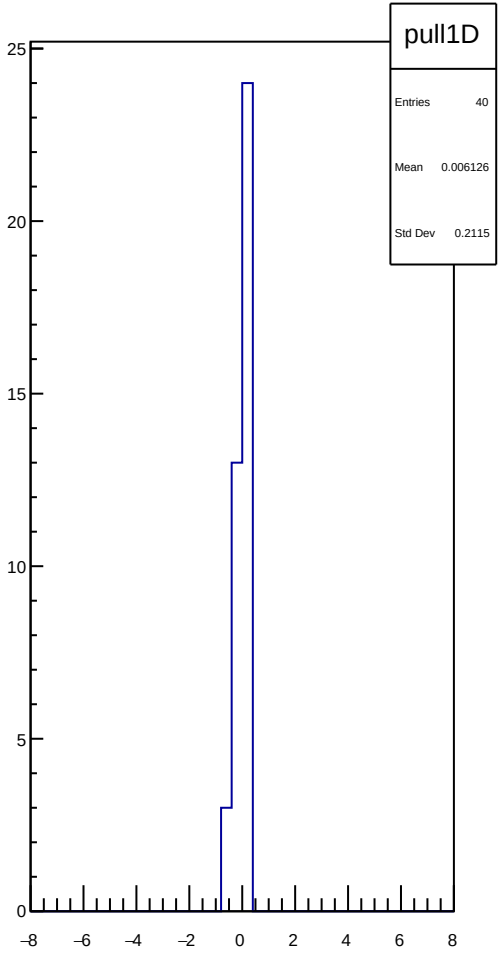

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 4.525 / 39
p0 18.34 ± 2.541
pull
Entries 40
Mean 61.07
Std Dev 42.48

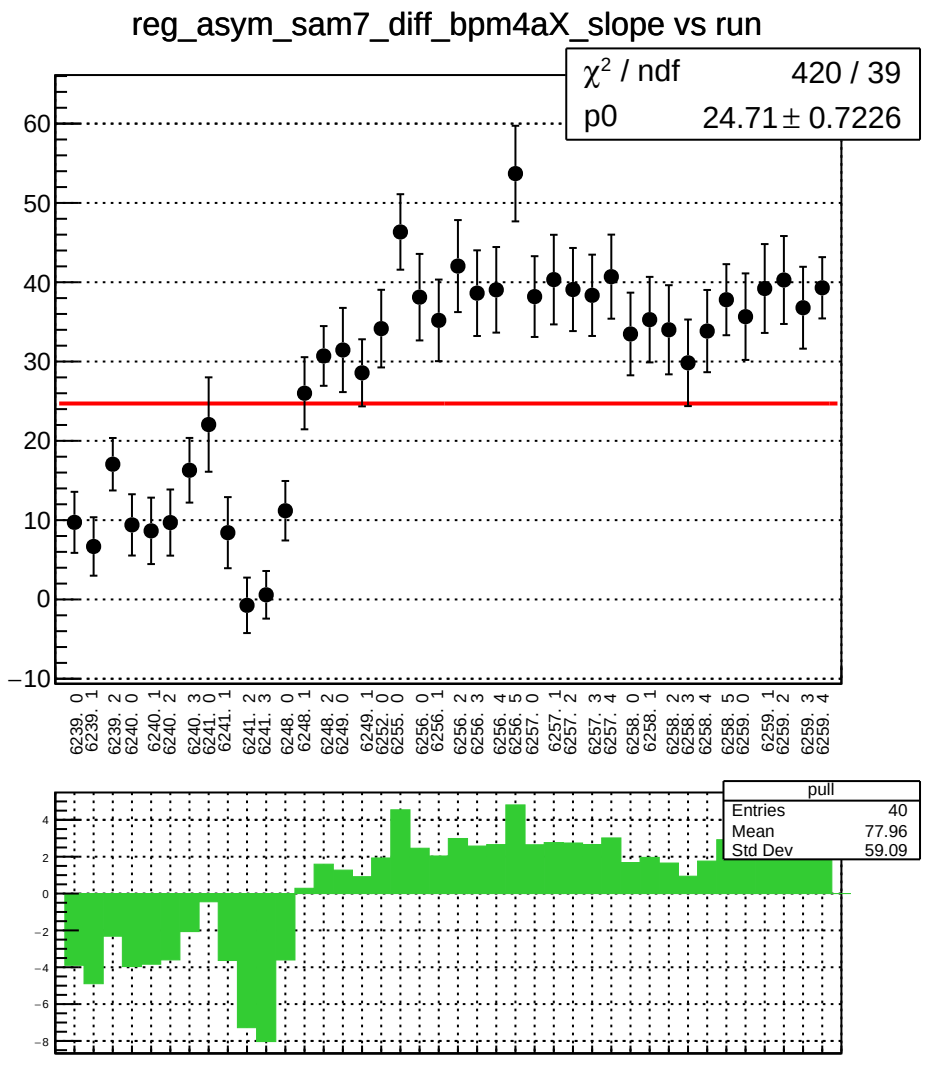

pull1D
Entries 40
Mean −0.04857
Std Dev 0.3328

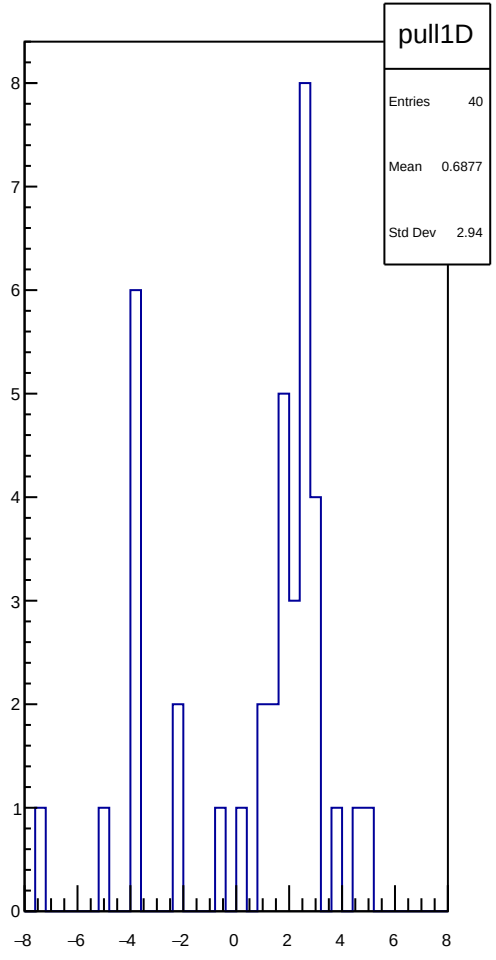

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.71 / 39
p0 42.39 ± 1.704
pull
Entries 40
Mean −300.9
Std Dev 317.1

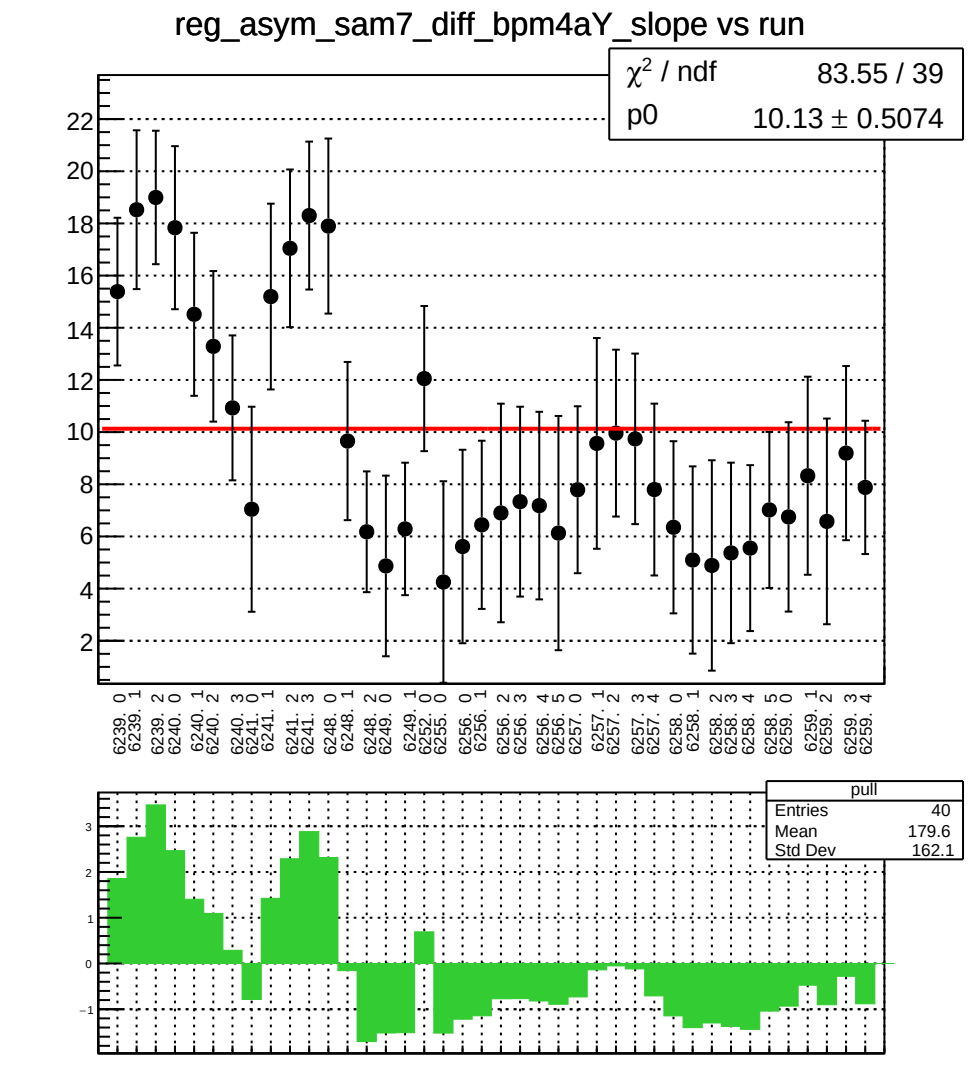

pull1D
Entries 40
Mean 0.005802
Std Dev 0.5174

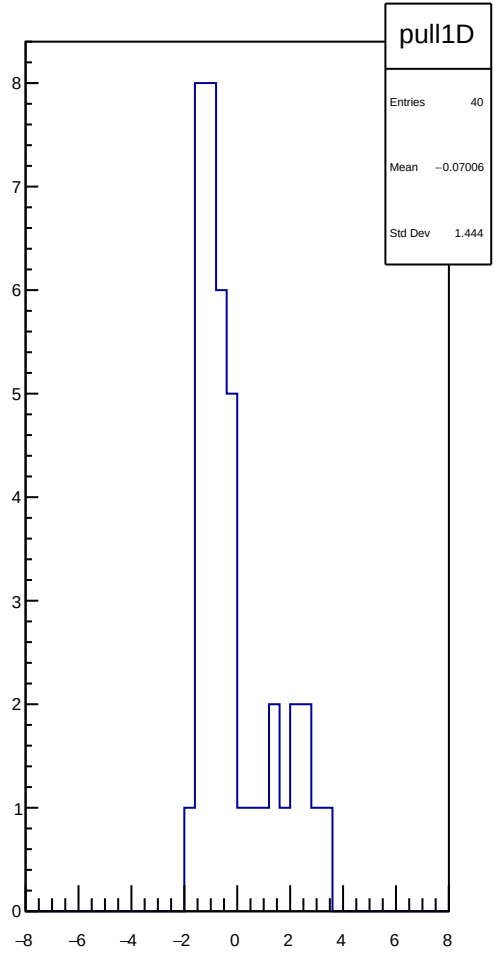

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.791 / 39
p0 0.1166 ± 0.1205
pull
Entries 40
Mean 257.3
Std Dev 238.8

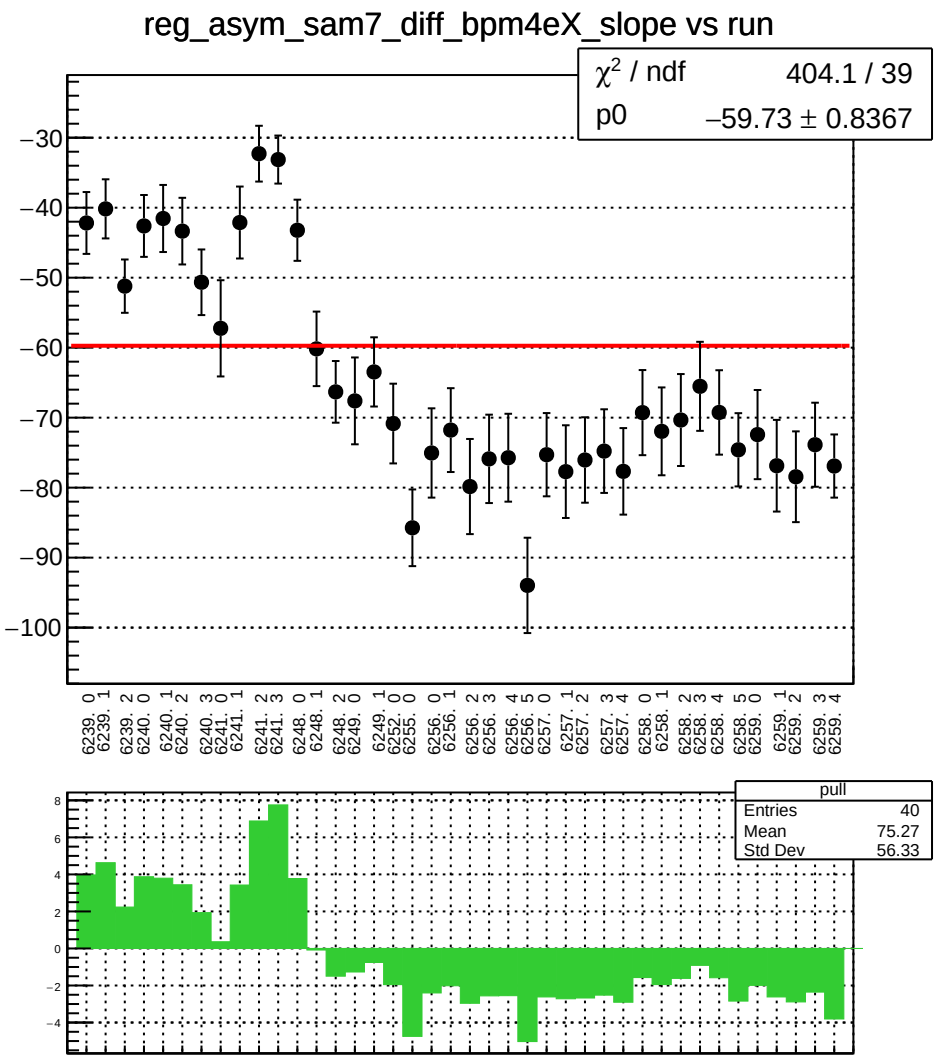

pull1D
Entries 40
Mean 0.006126
Std Dev 0.2115

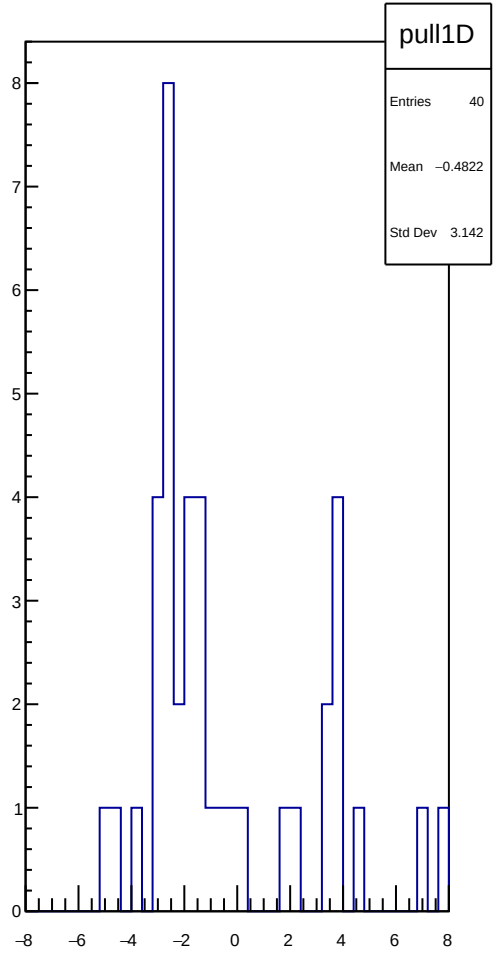

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 420 / 39
p0 24.71 ± 0.7226
pull
Entries 40
Mean 77.96
Std Dev 59.09

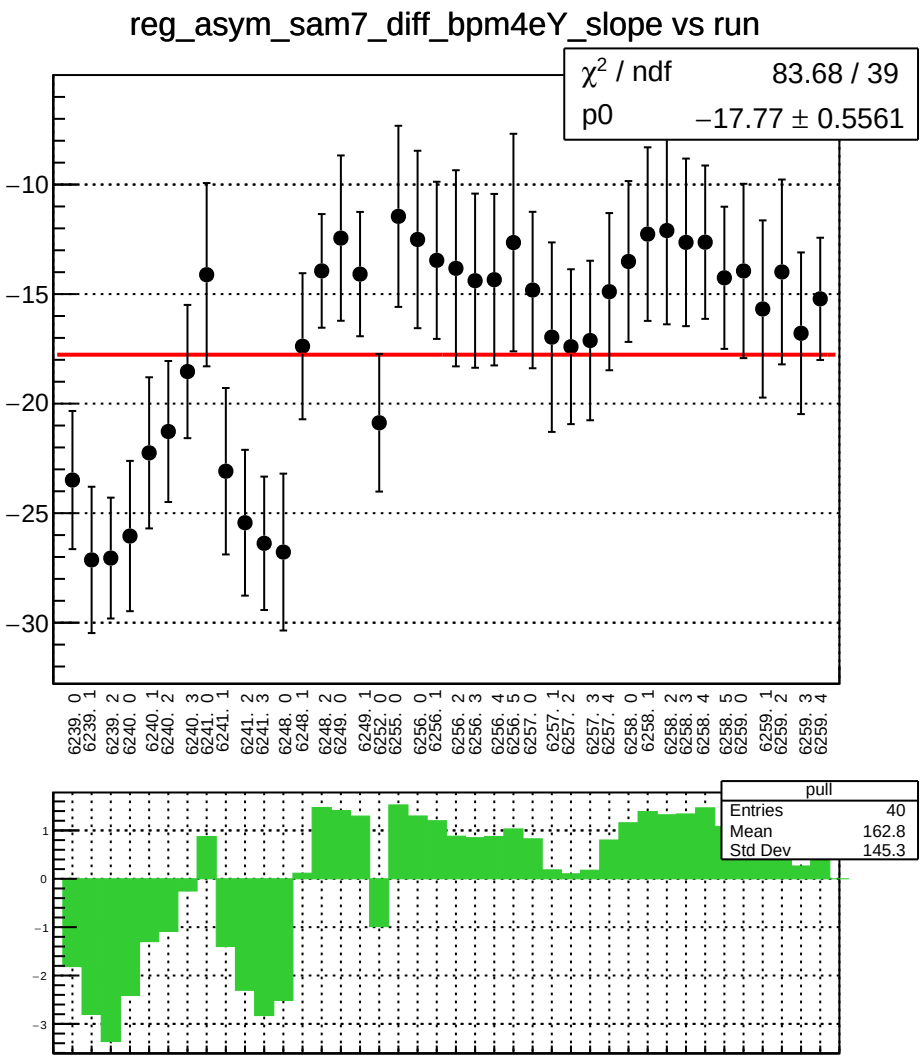

pull1D
Entries 40
Mean 0.6877
Std Dev 2.94

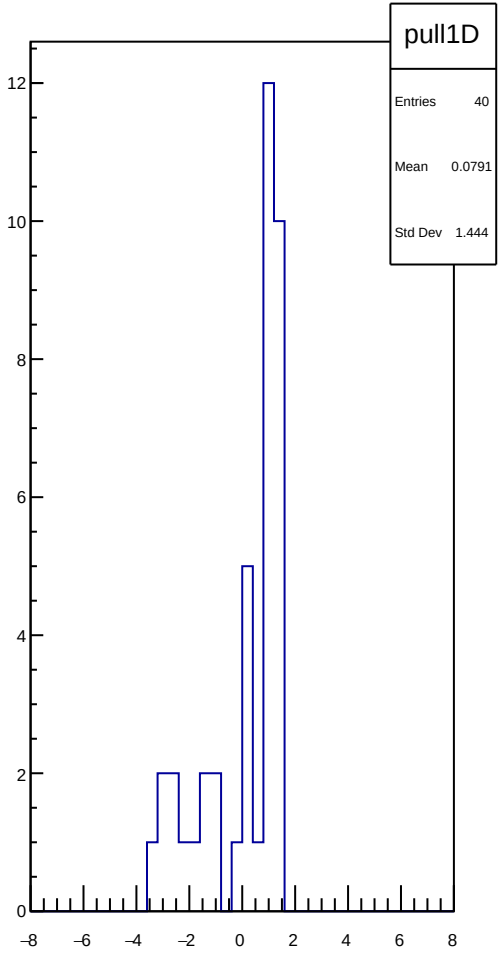

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 83.55 / 39
p0 10.13 ± 0.5074
pull
Entries 40
Mean 179.6
Std Dev 162.1

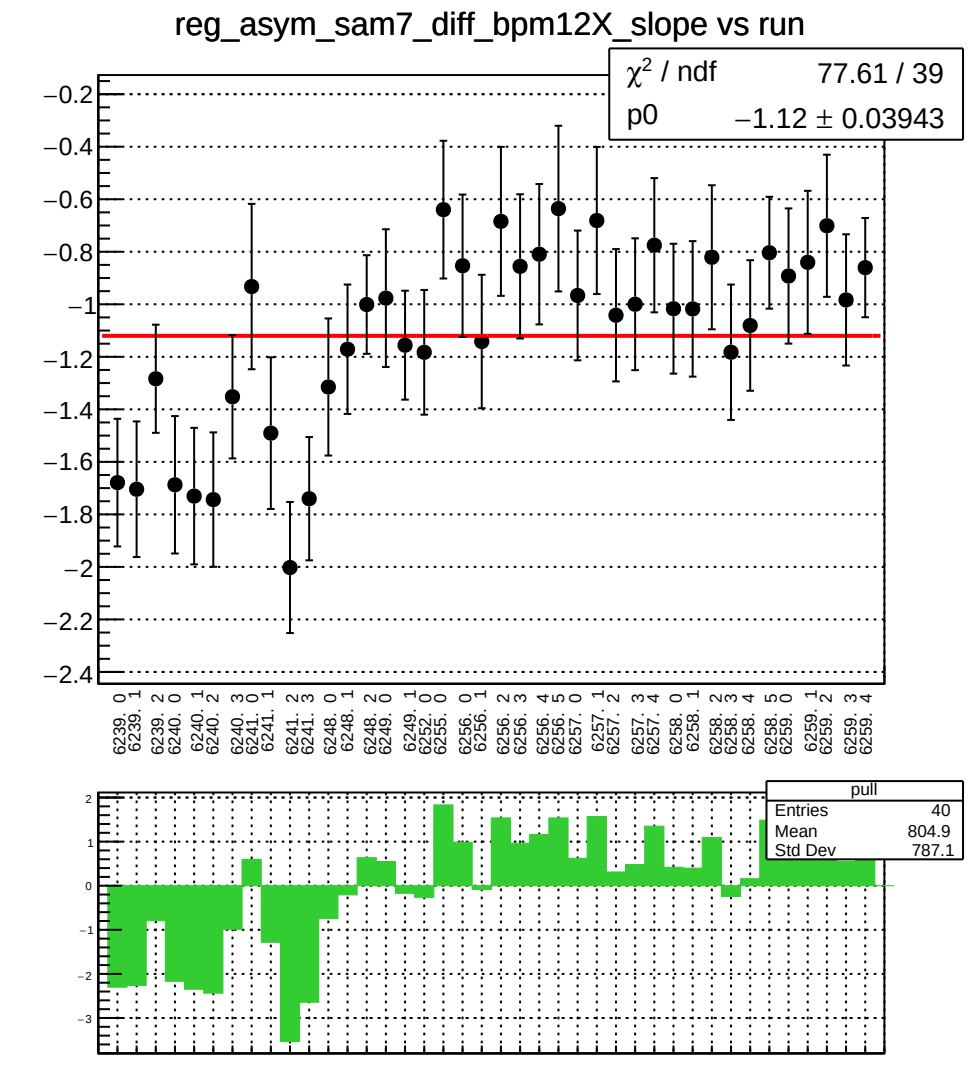

pull1D
Entries 40
Mean −0.07006
Std Dev 1.444

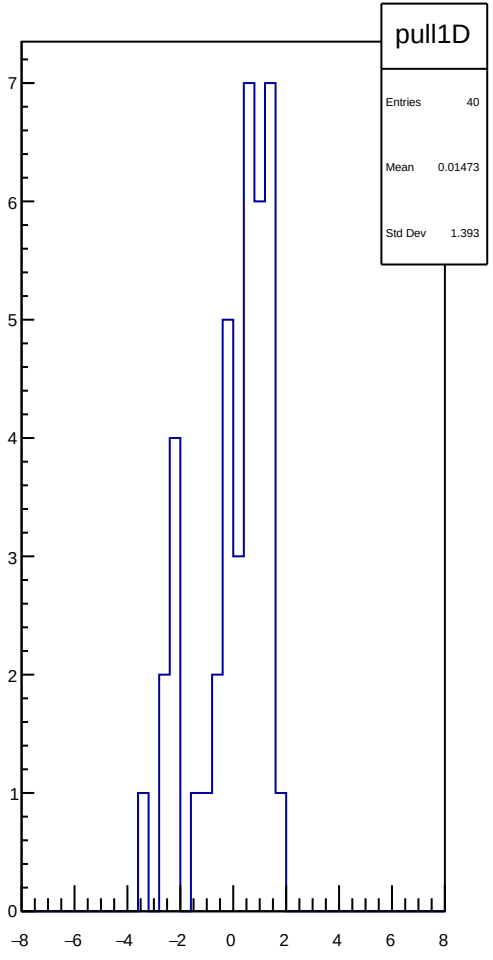

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 404.1 / 39
p0 −59.73 ± 0.8367
−30
−40
−50
−60
−70
−80
−90
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 75.27
Std Dev 56.33
8
6
4
2
0
−2
−4

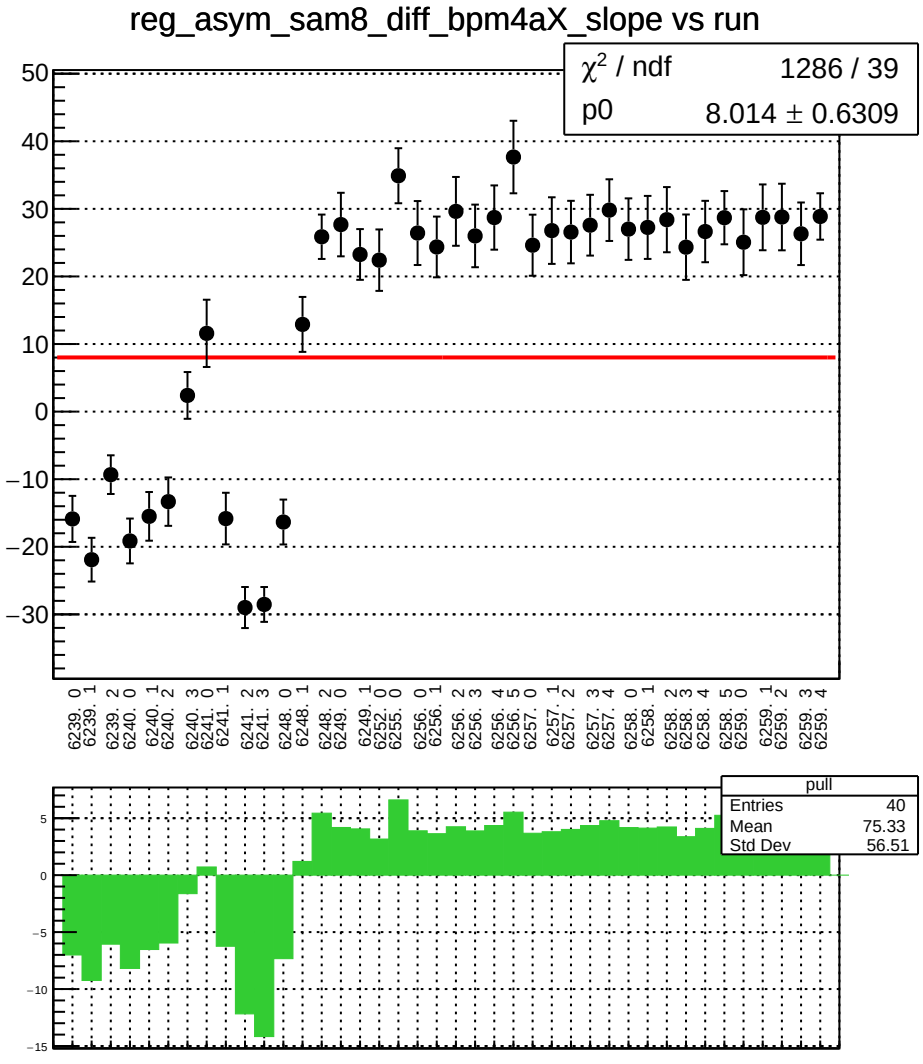

pull1D
Entries 40
Mean −0.4822
Std Dev 3.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

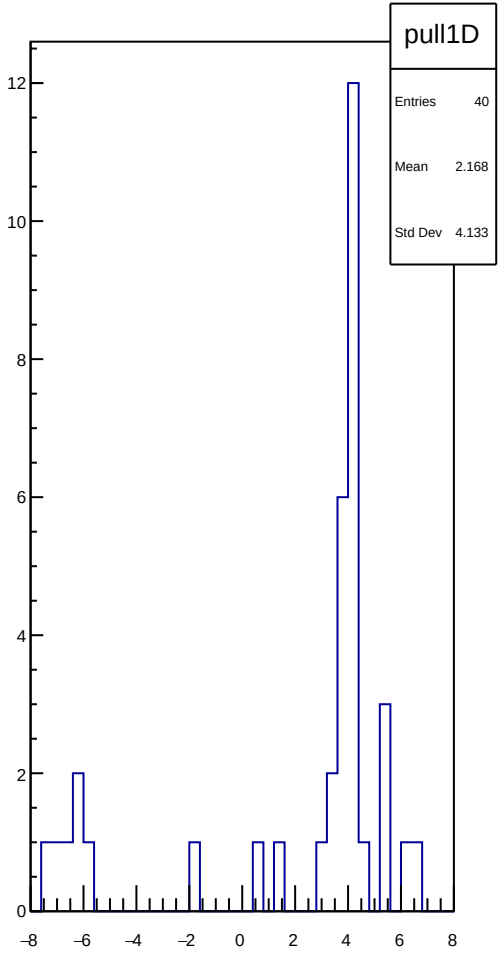

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 83.68 / 39
p0 −17.77 ± 0.5561
−10
−15
−20
−25
−30
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 162.8
Std Dev 145.3
1
0
−1
−2
−3

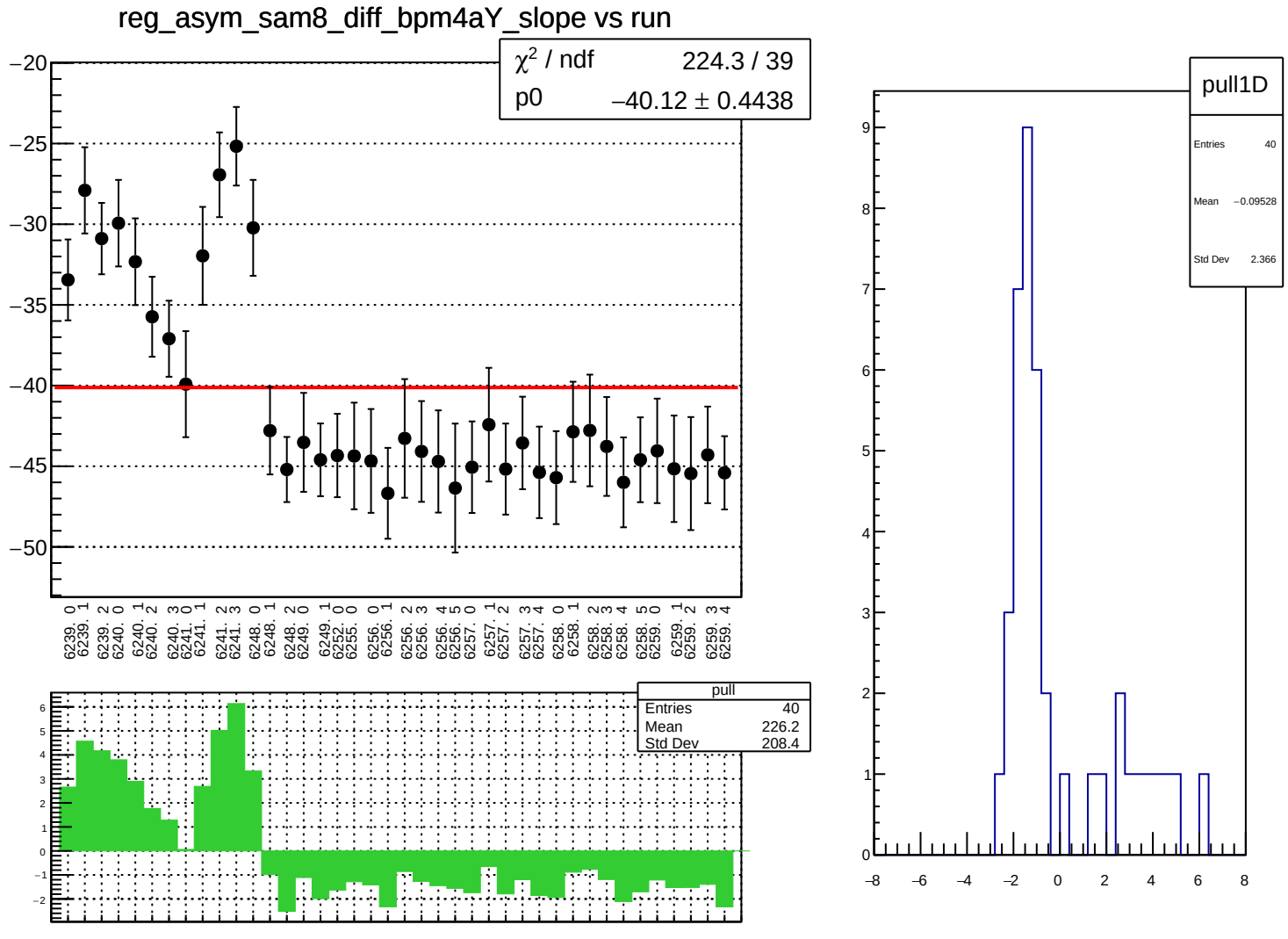

pull1D
Entries 40
Mean 0.0791
Std Dev 1.444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

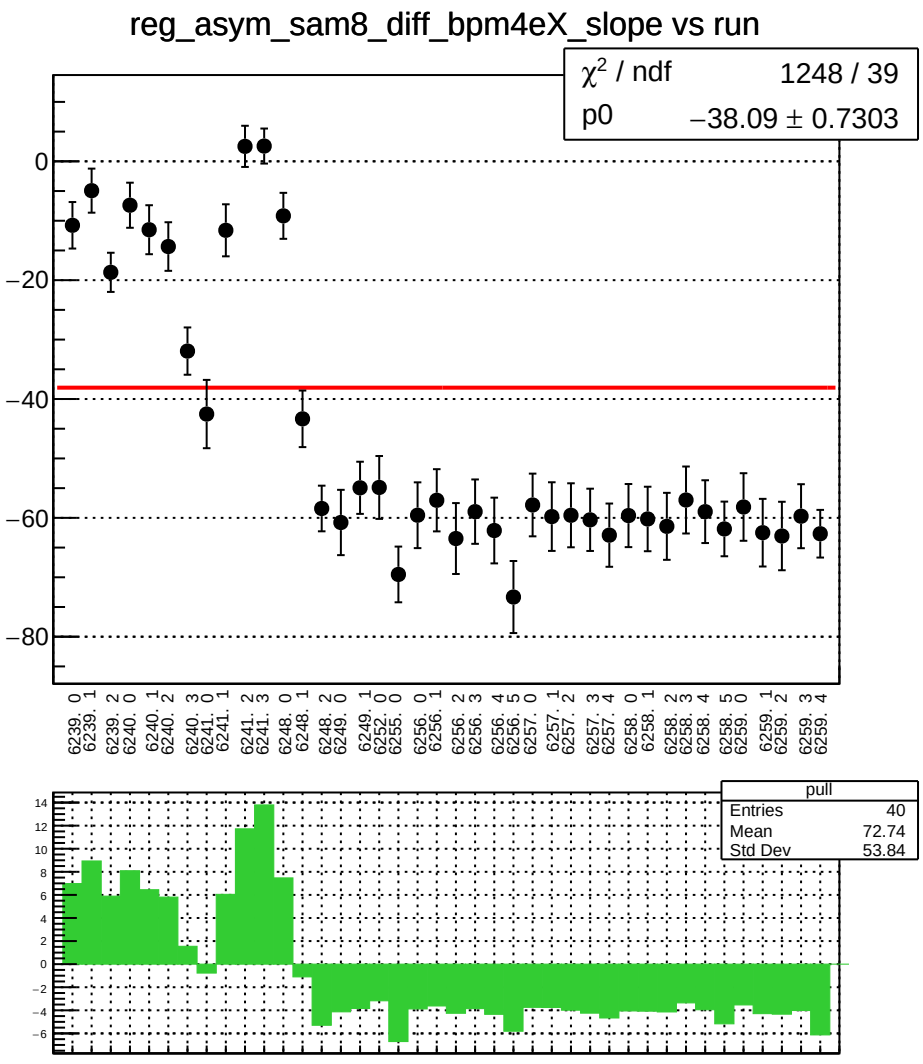

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 77.61 / 39
p0 −1.12 ± 0.03943
pull
Entries 40
Mean 804.9
Std Dev 787.1

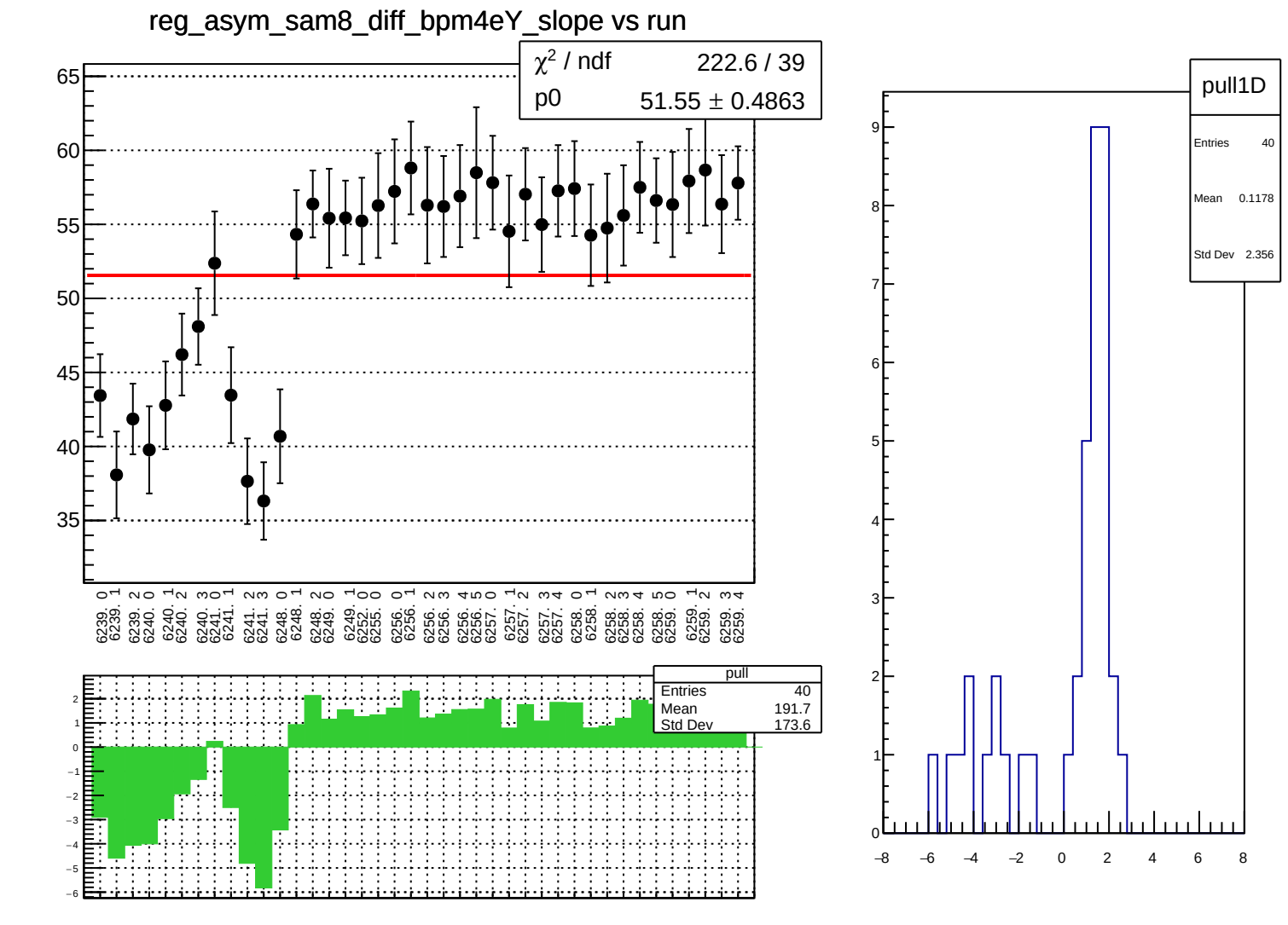

pull1D
Entries 40
Mean 0.01473
Std Dev 1.393

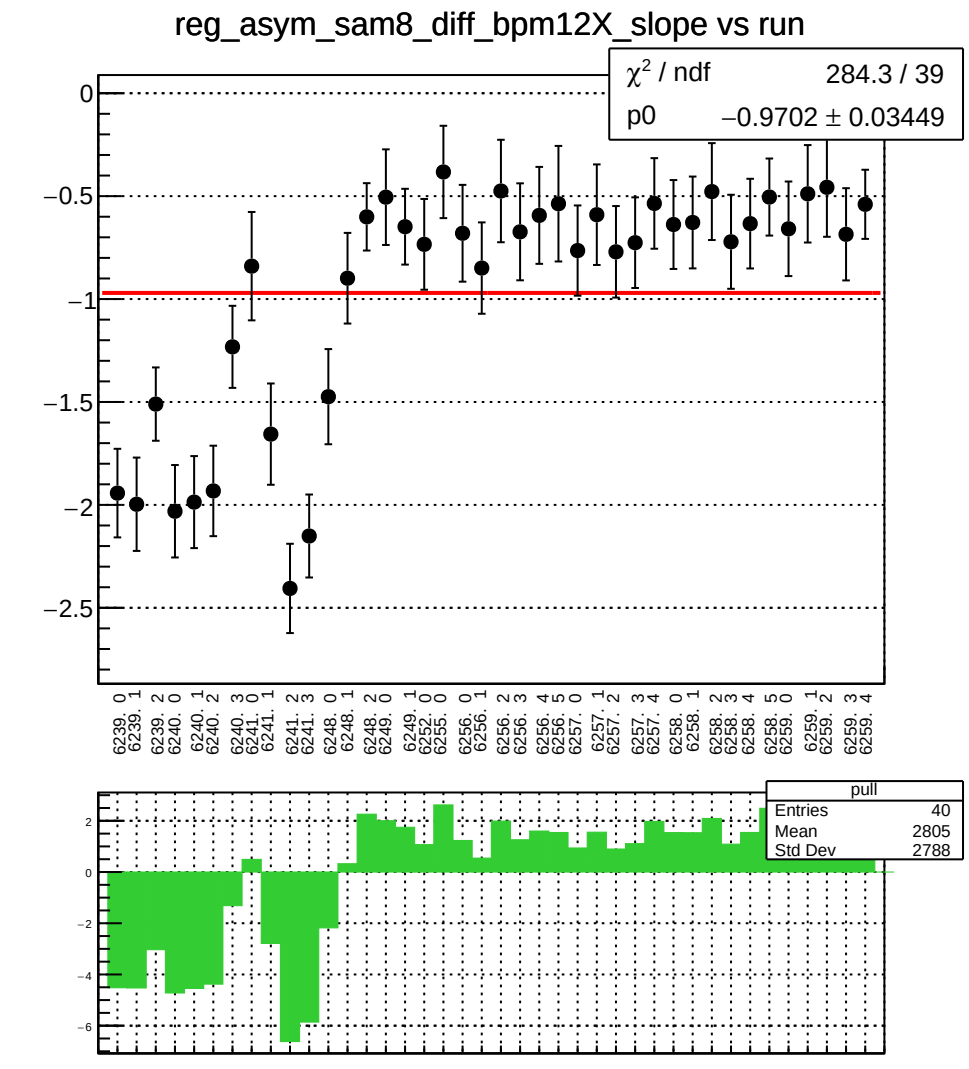

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 1286 / 39
p0 8.014 ± 0.6309
pull
Entries 40
Mean 75.33
Std Dev 56.51

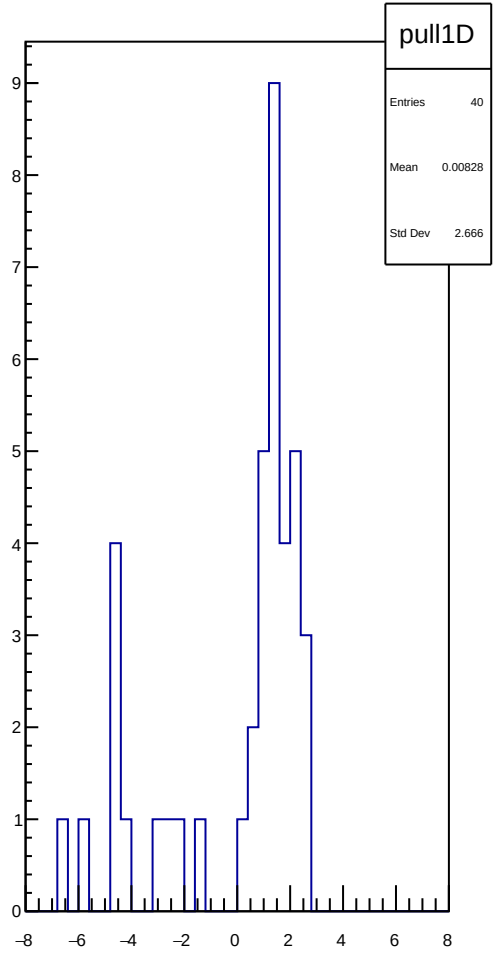

pull1D
Entries 40
Mean 2.168
Std Dev 4.133

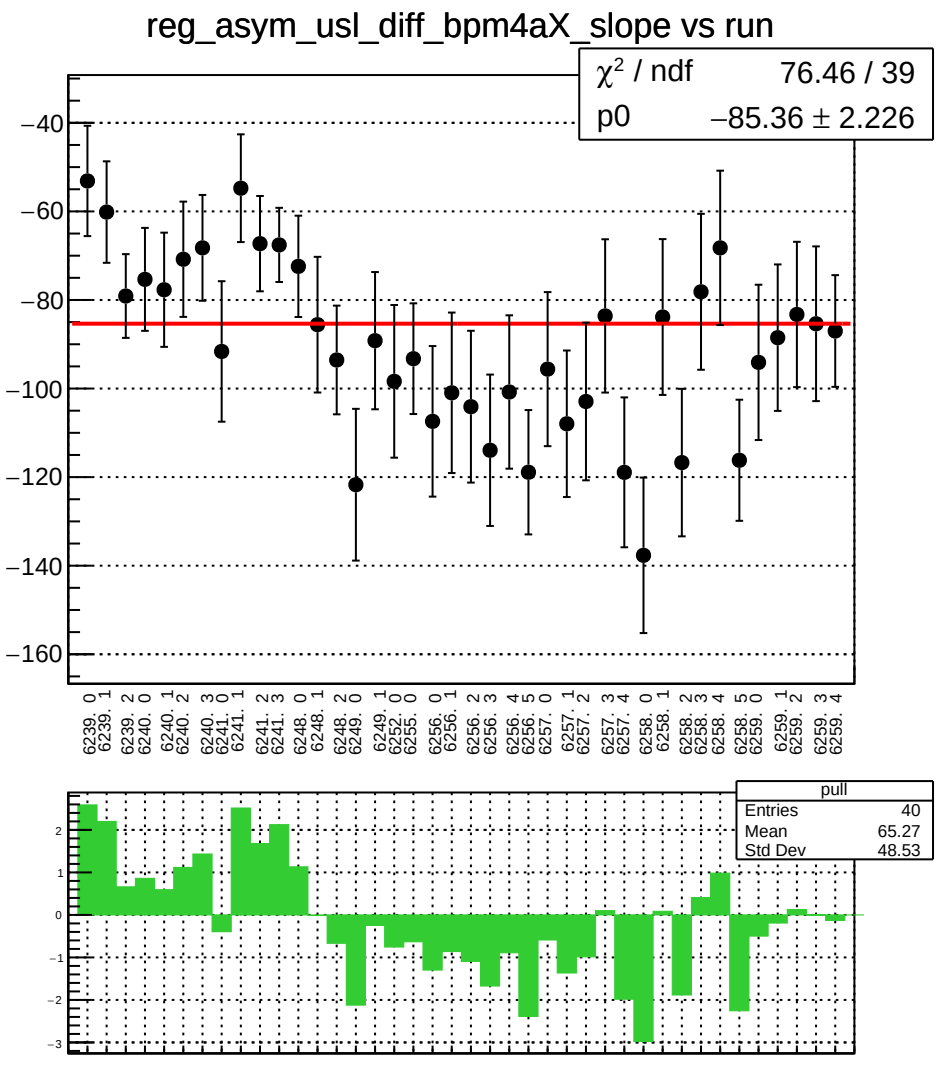

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 224.3 / 39
p0 −40.12 ± 0.4438
pull
Entries 40
Mean 226.2
Std Dev 208.4
pull1D
Entries 40
Mean −0.09528
Std Dev 2.366

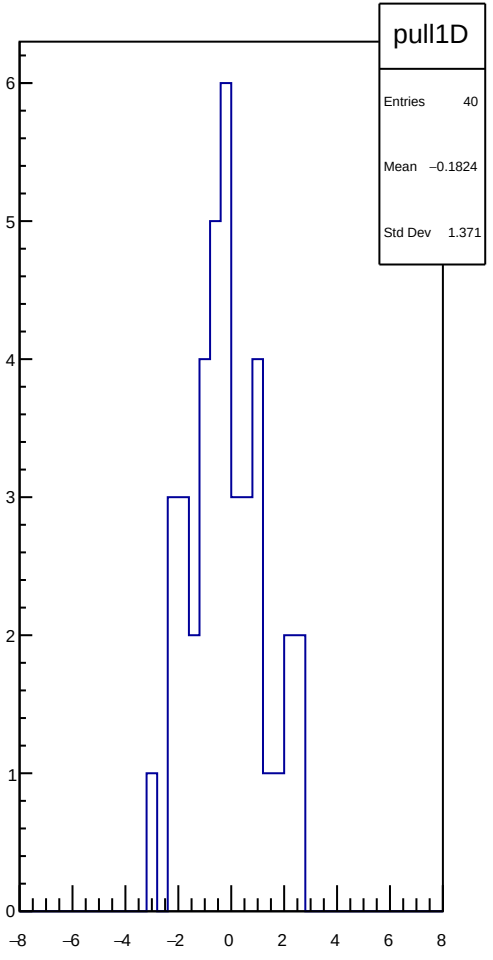

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1248 / 39
p0 −38.09 ± 0.7303
0
−20
−40
−60
−80
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 72.74
Std Dev 53.84
14
12
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 40
Mean −2.167
Std Dev 4.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

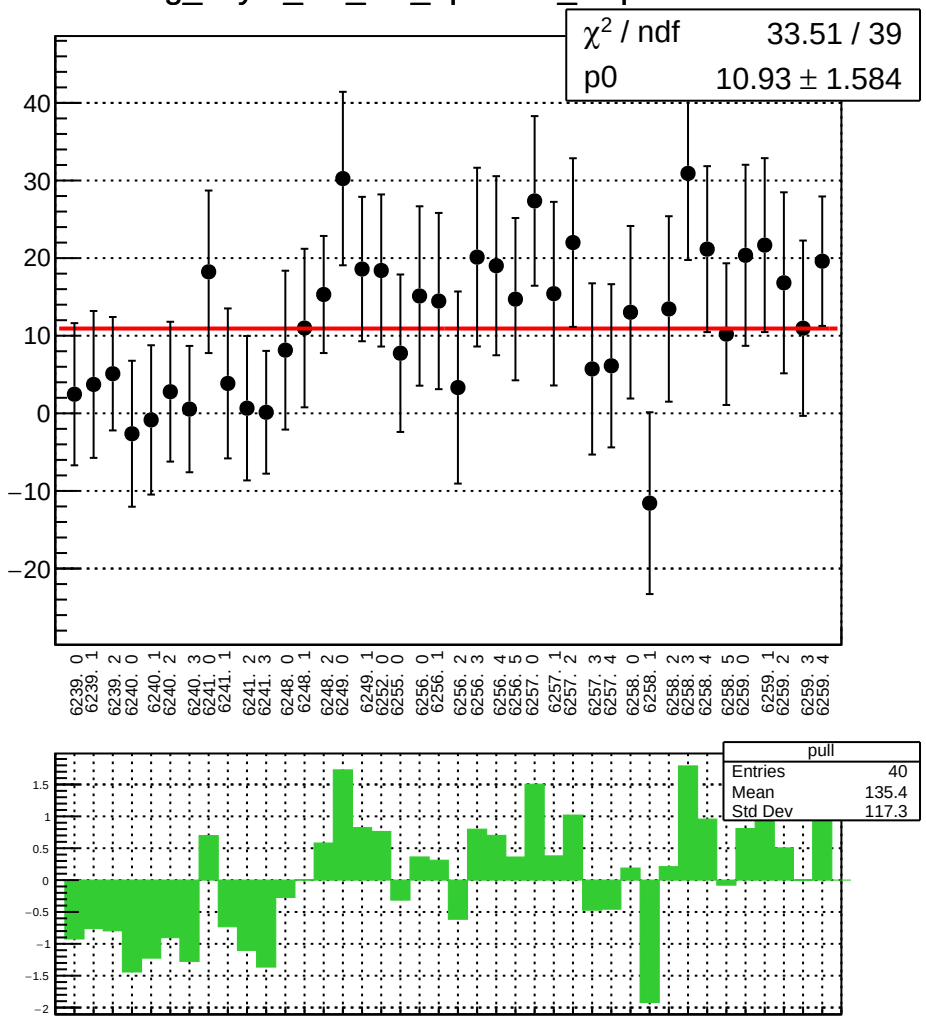

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 222.6 / 39
p0 51.55 ± 0.4863
pull
Entries 40
Mean 191.7
Std Dev 173.6
pull1D
Entries 40
Mean 0.1178
Std Dev 2.356

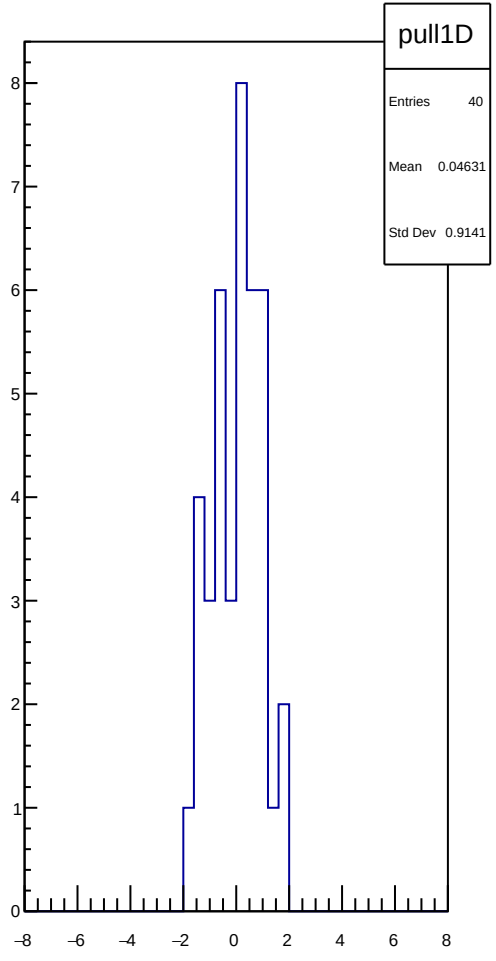

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 284.3 / 39
p0 −0.9702 ± 0.03449
pull
Entries 40
Mean 2805
Std Dev 2788

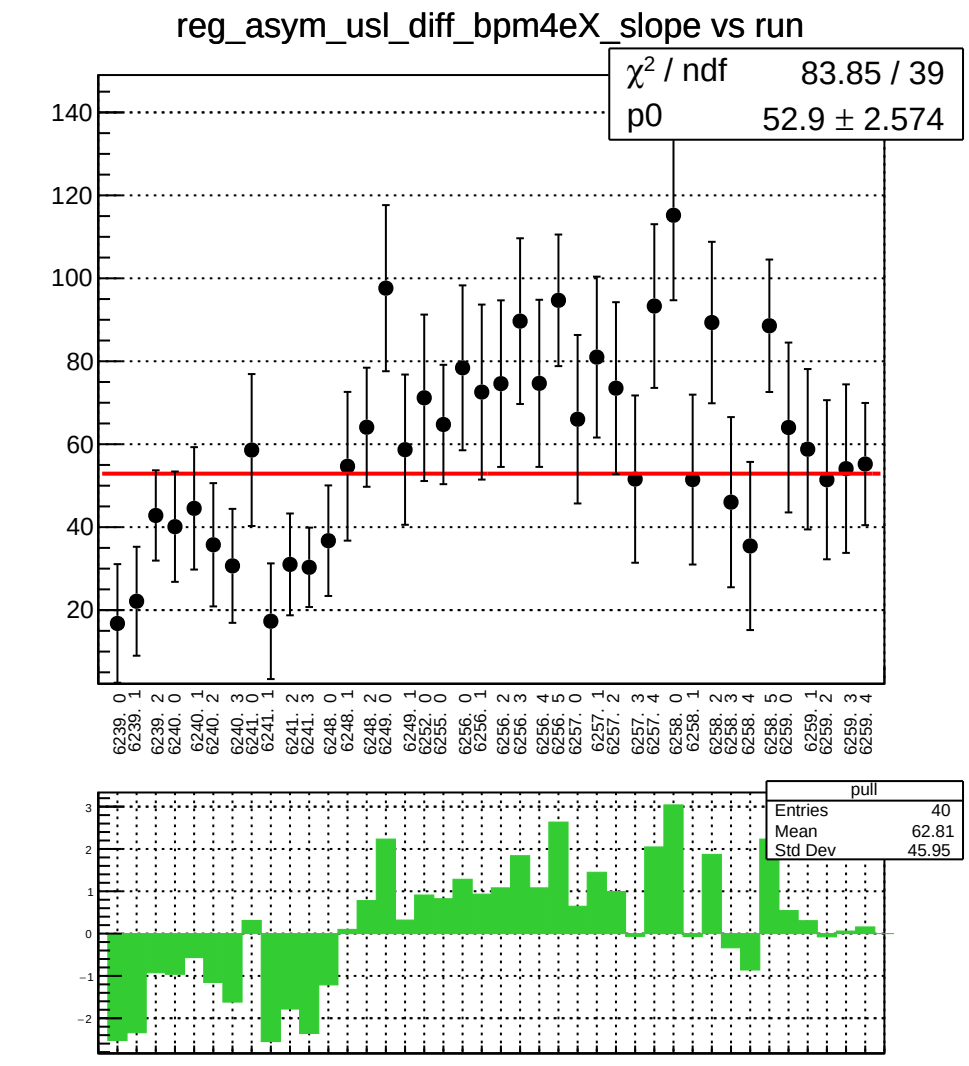

pull1D
Entries 40
Mean 0.00828
Std Dev 2.666

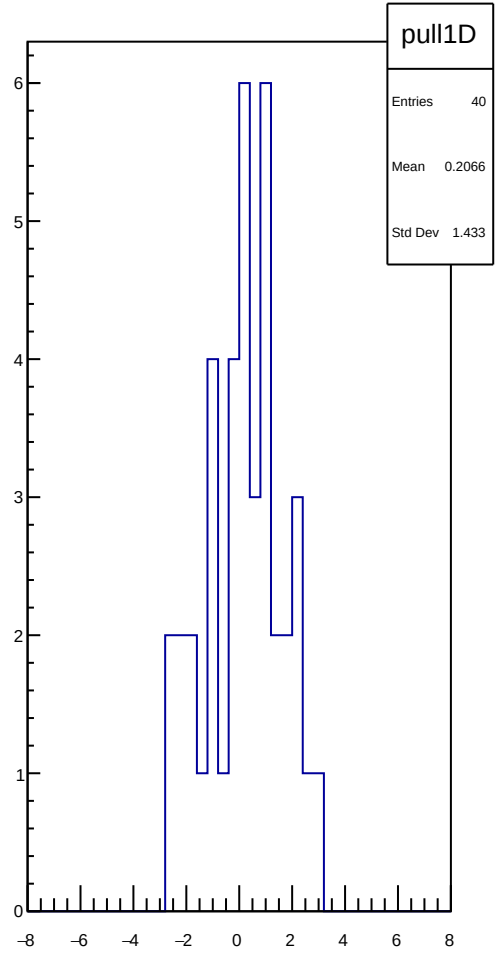

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 76.46 / 39
p0 −85.36 ± 2.226
pull
Entries 40
Mean 65.27
Std Dev 48.53

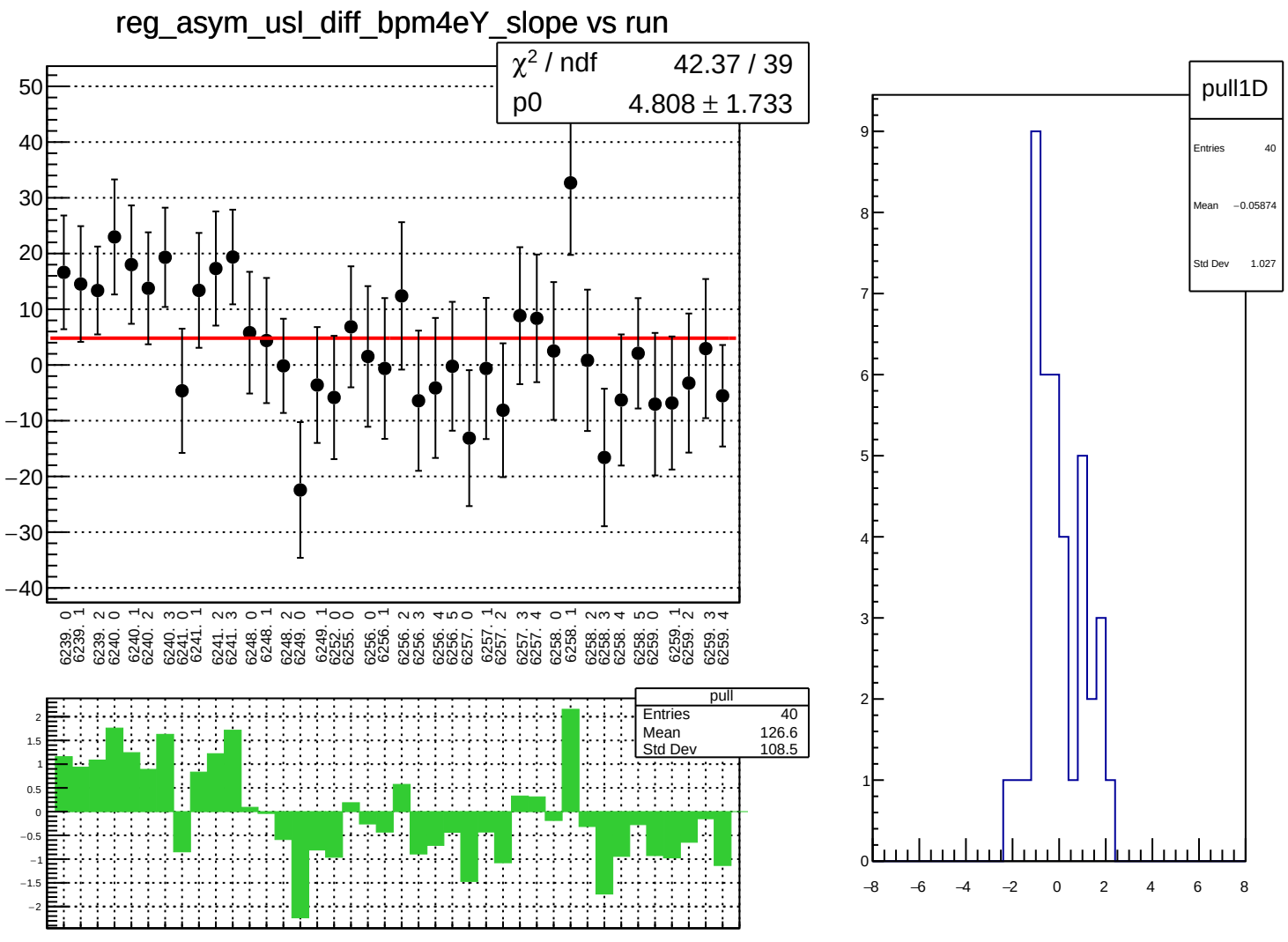

pull1D
Entries 40
Mean −0.1824
Std Dev 1.371

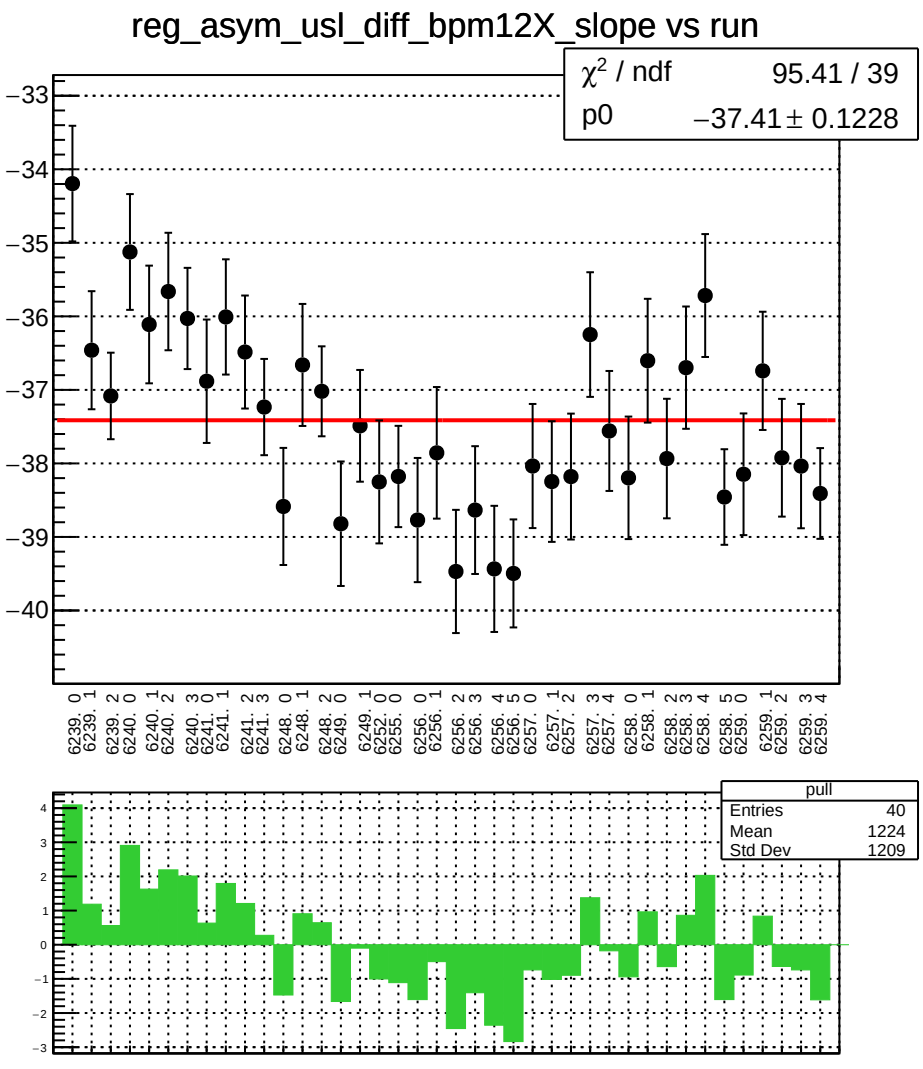

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 33.51 / 39
p0 10.93 ± 1.584
pull
Entries 40
Mean 135.4
Std Dev 117.3

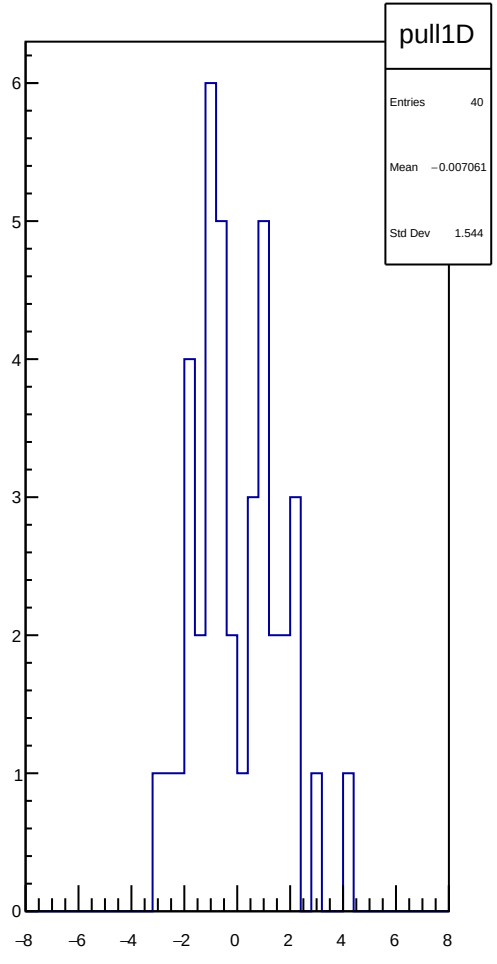

pull1D
Entries 40
Mean 0.04631
Std Dev 0.9141

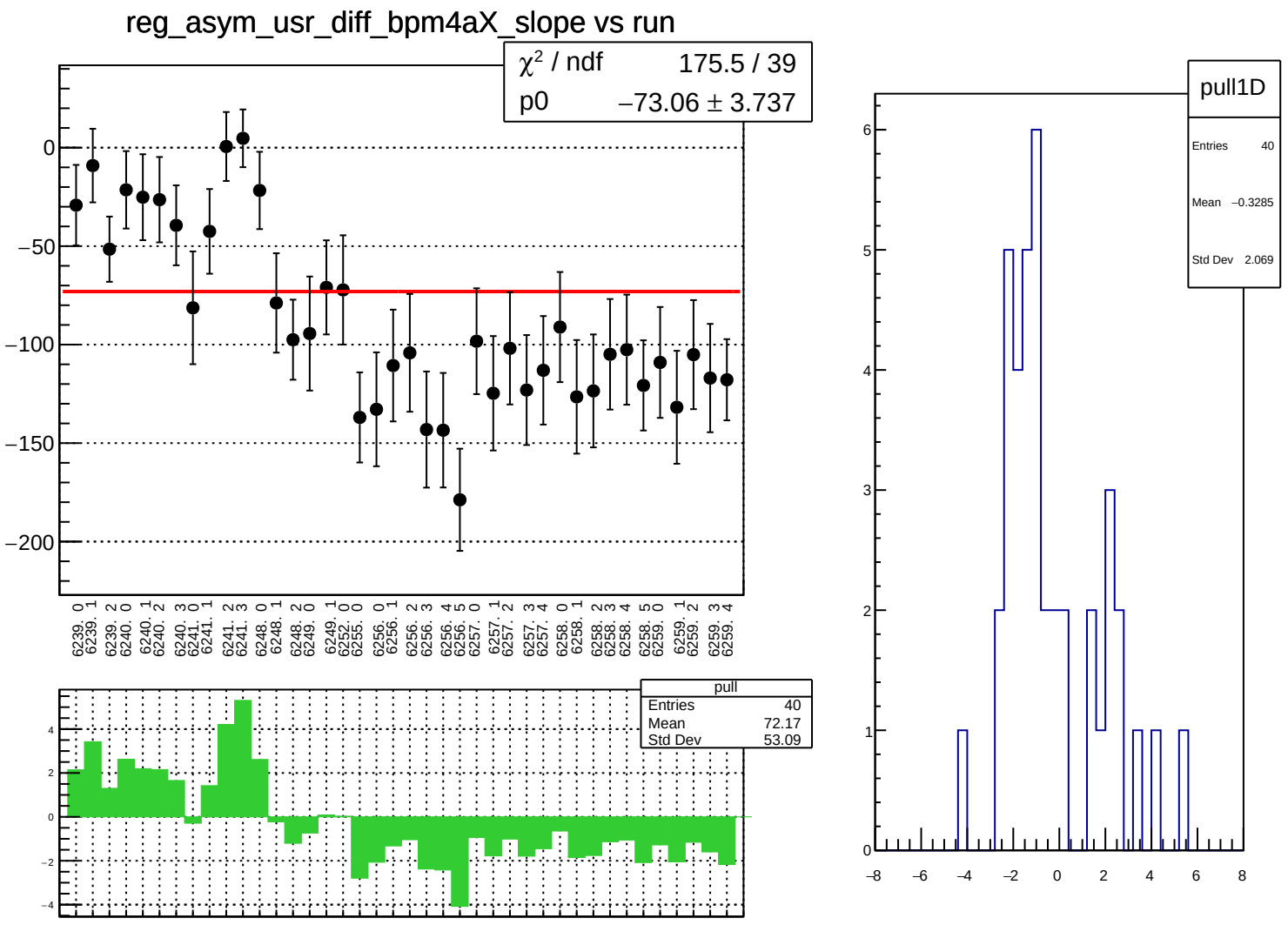

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 83.85 / 39
p0 52.9 ± 2.574
pull
Entries 40
Mean 62.81
Std Dev 45.95

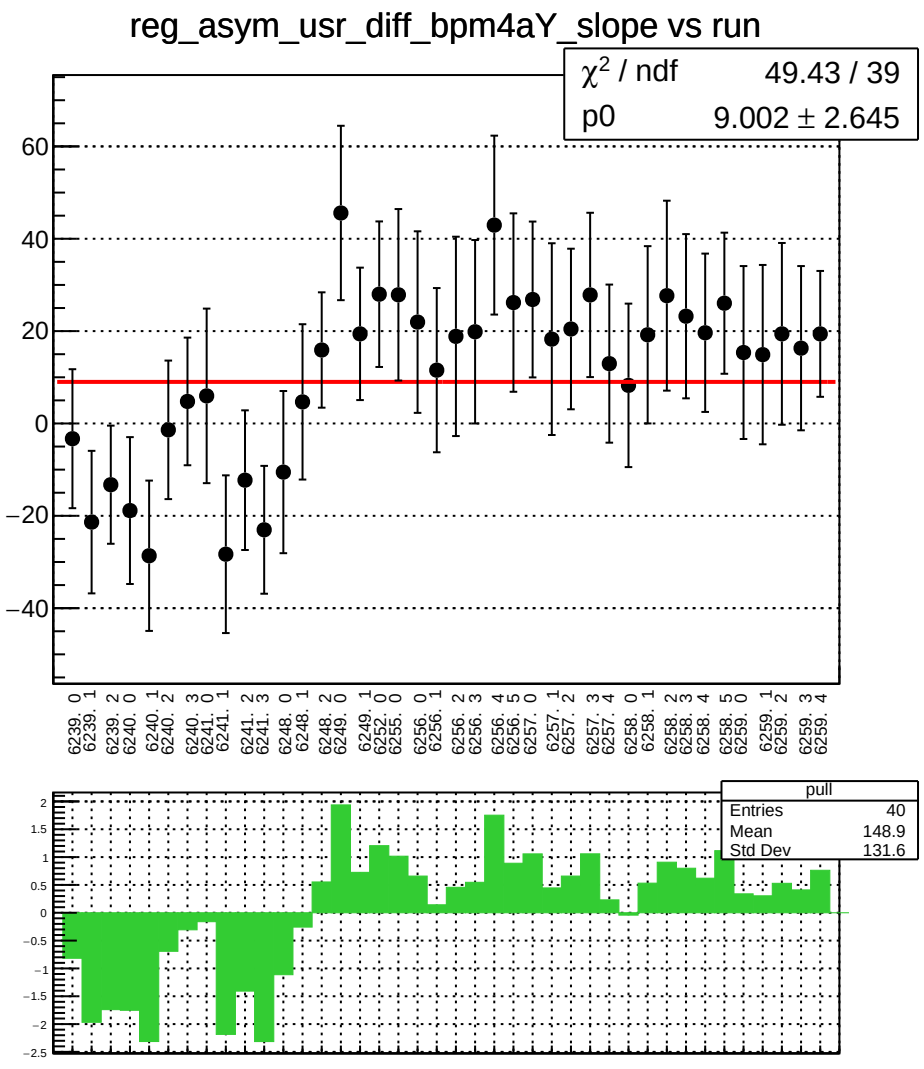

pull1D
Entries 40
Mean 0.2066
Std Dev 1.433

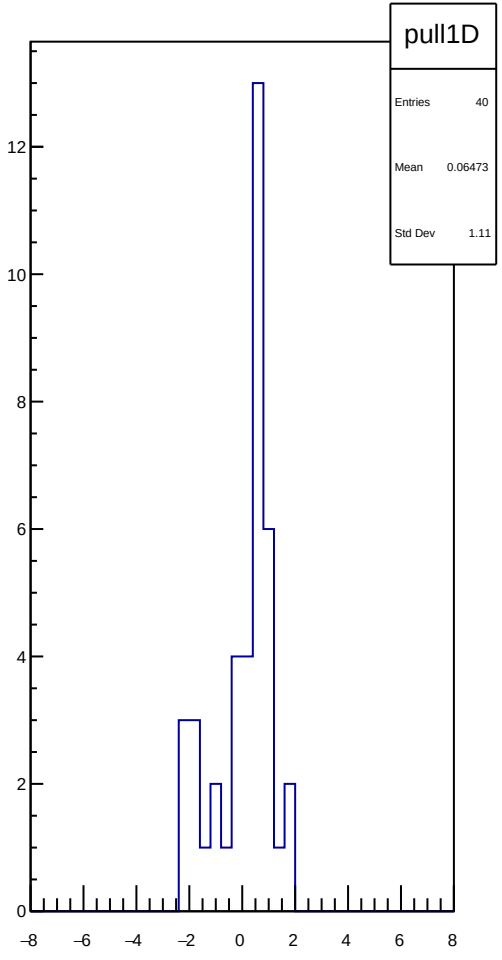

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 42.37 / 39
p0 4.808 ± 1.733
pull
Entries 40
Mean 126.6
Std Dev 108.5
pull1D
Entries 40
Mean −0.05874
Std Dev 1.027

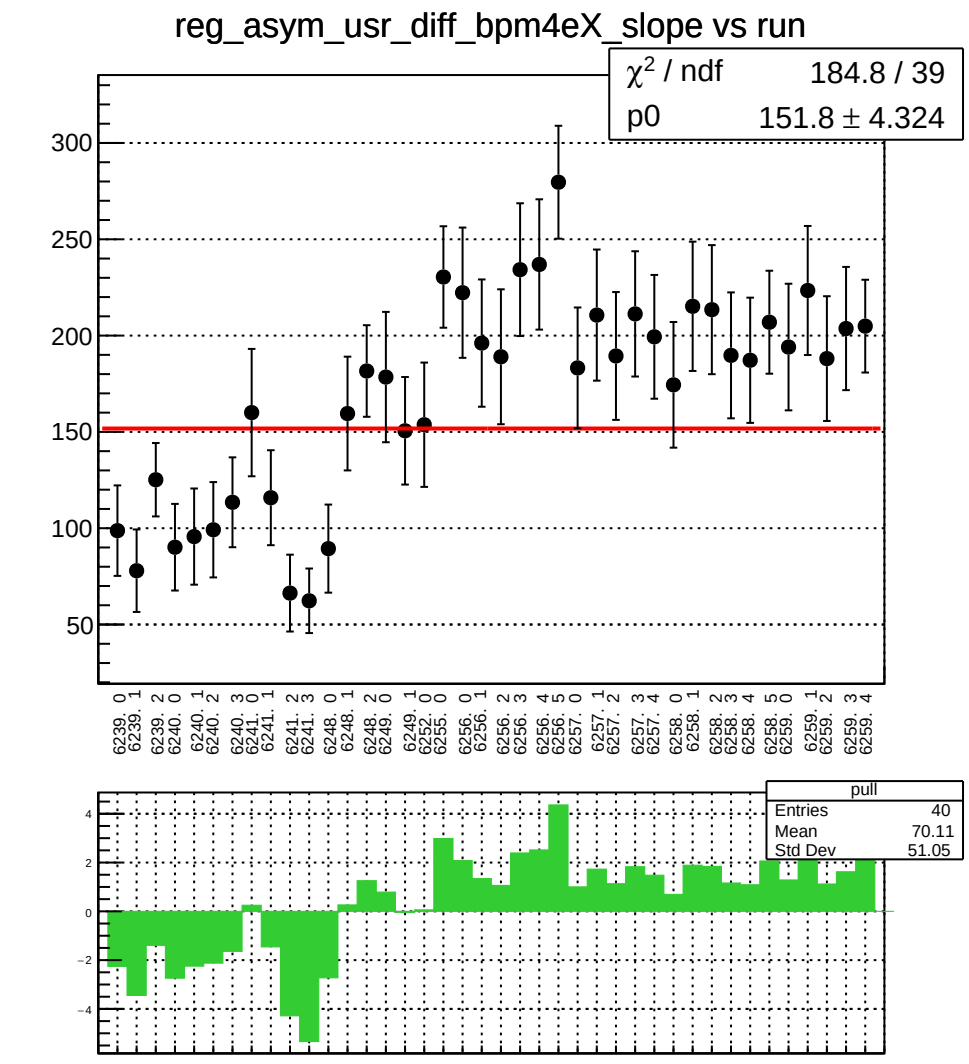

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 95.41 / 39
p0 −37.41 ± 0.1228
pull
Entries 40
Mean 1224
Std Dev 1209

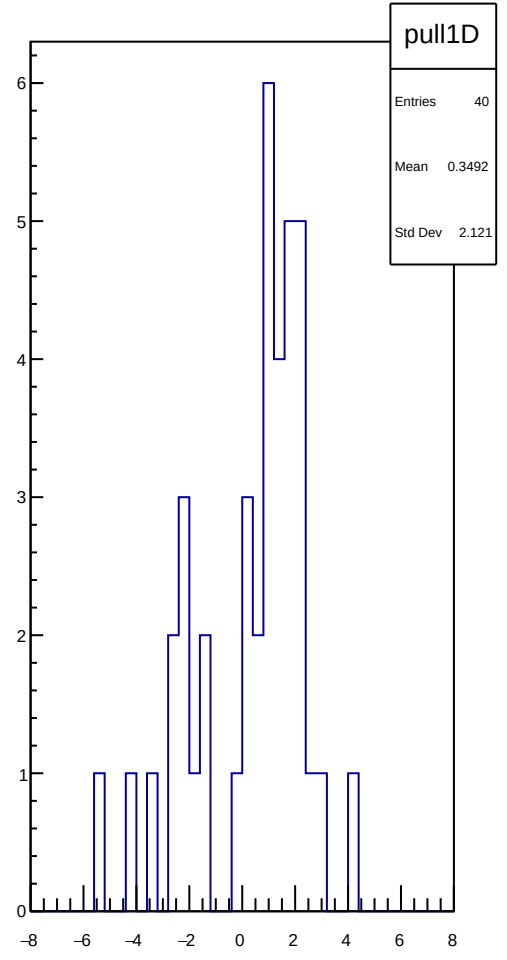

pull1D
Entries 40
Mean −0.007061
Std Dev 1.544

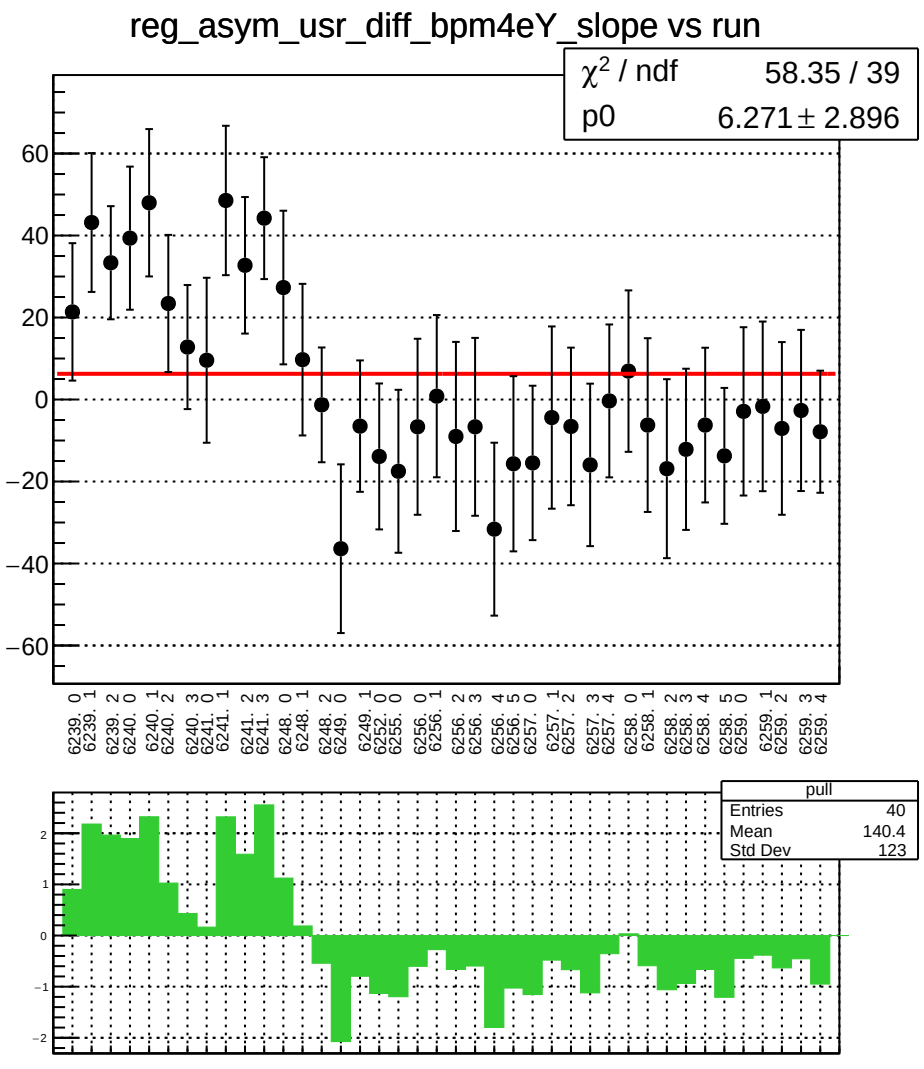

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 175.5 / 39
p0 −73.06 ± 3.737
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 72.17
Std Dev 53.09
4
2
0
−2
−4
pull1D
Entries 40
Mean −0.3285
Std Dev 2.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

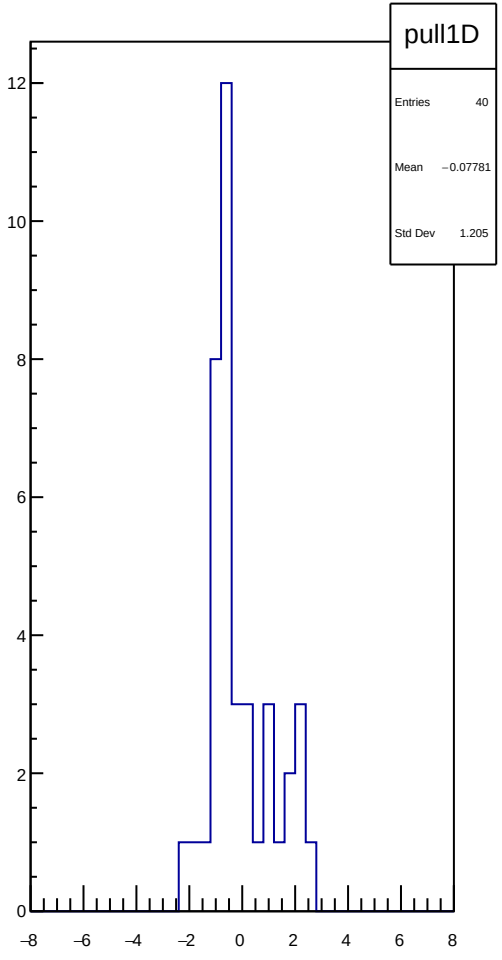

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 49.43 / 39
p0 9.002 ± 2.645
pull
Entries 40
Mean 148.9
Std Dev 131.6

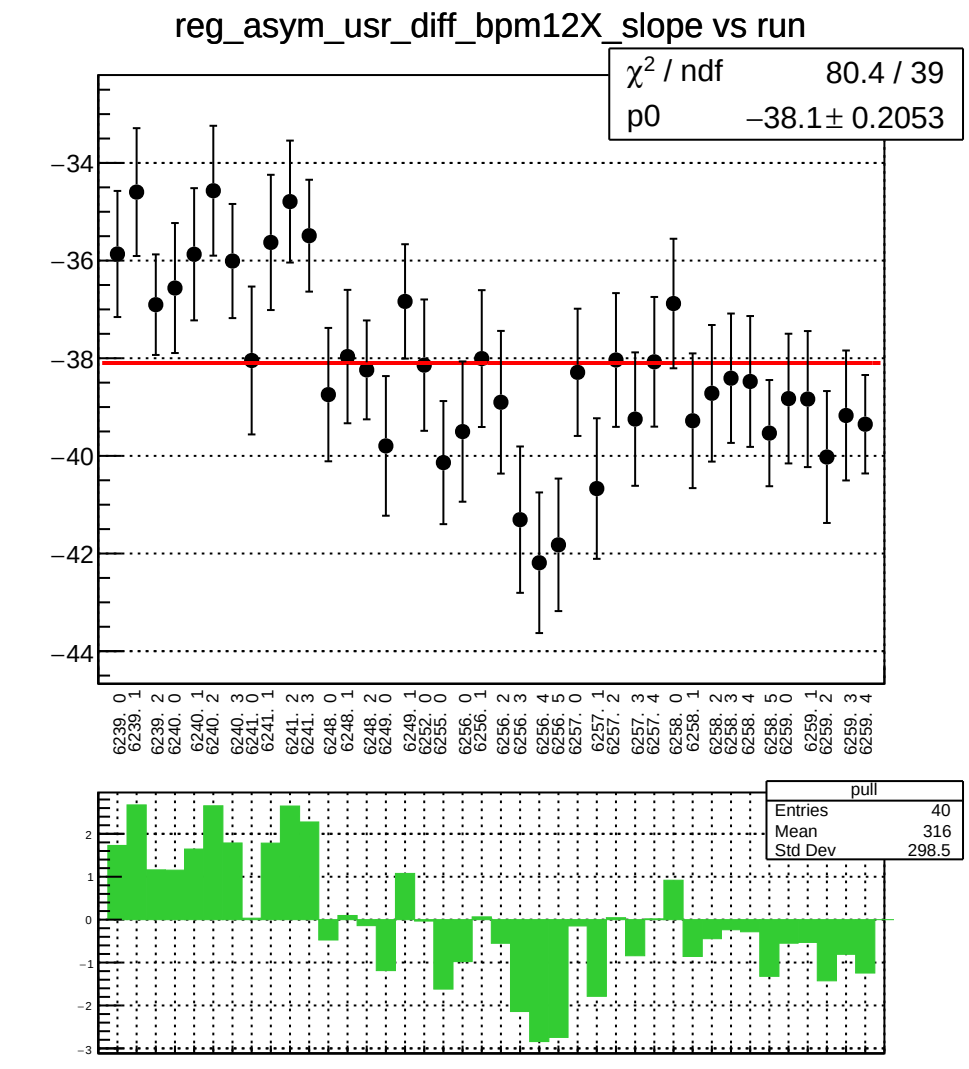

pull1D
Entries 40
Mean 0.06473
Std Dev 1.11

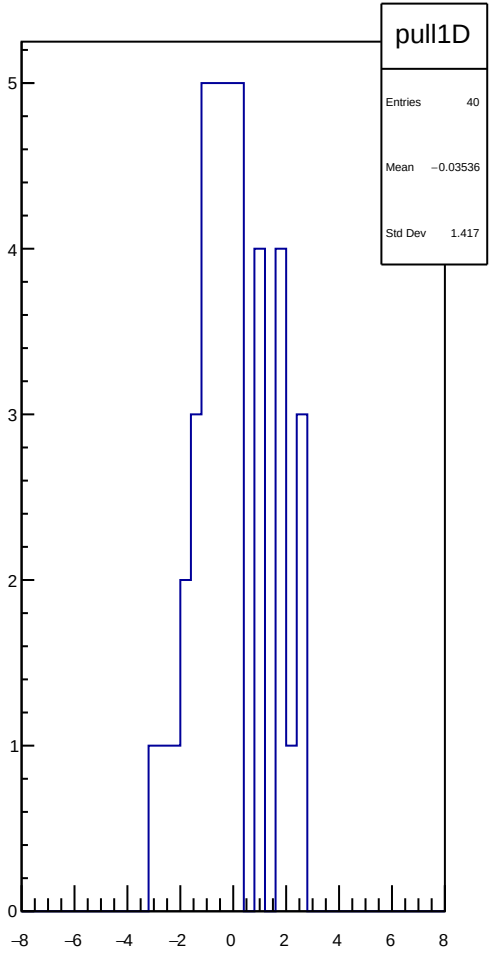

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 184.8 / 39
p0 151.8 ± 4.324
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 70.11
Std Dev 51.05
4
2
0
−2
−4

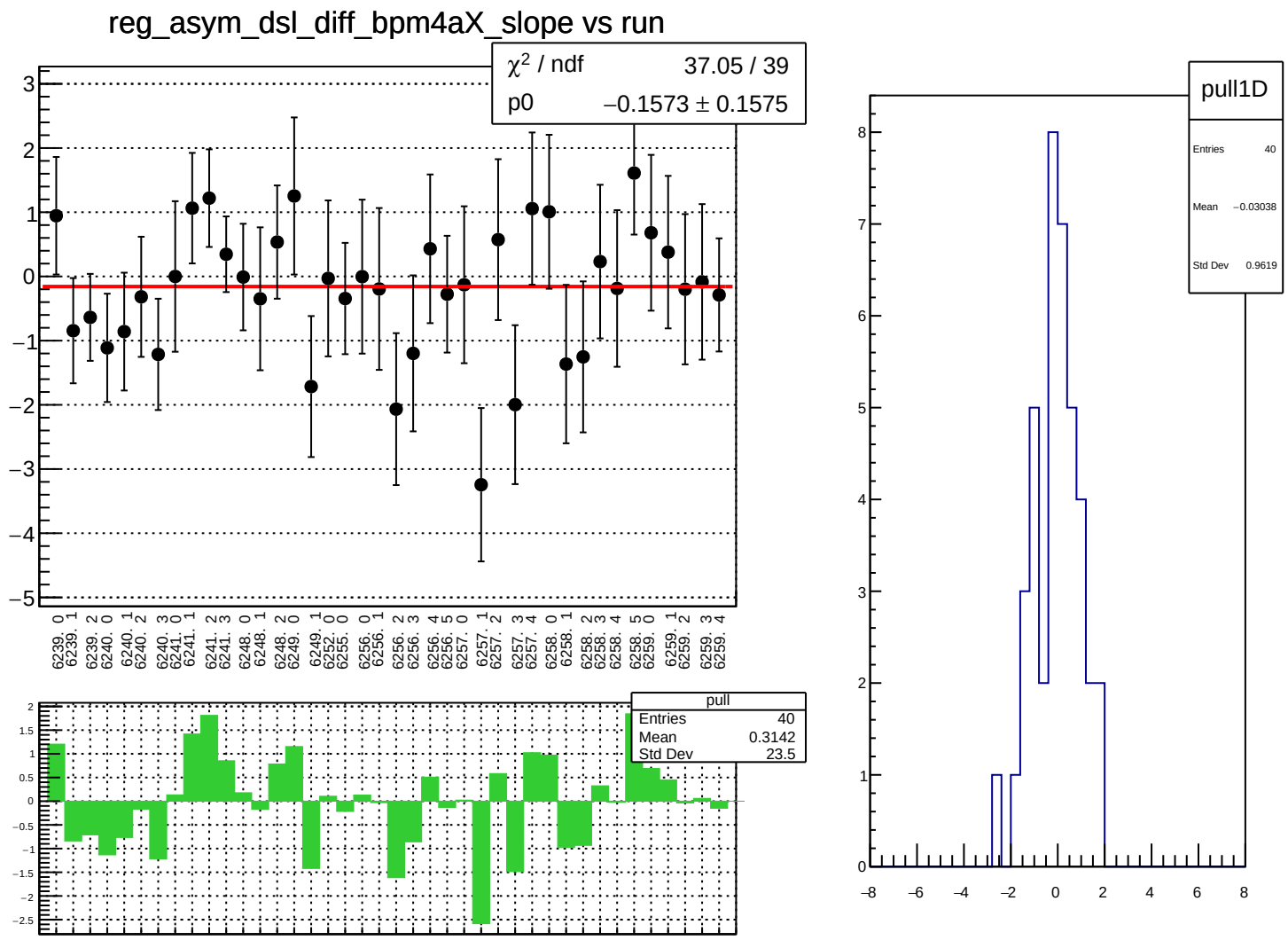

pull1D
Entries 40
Mean 0.3492
Std Dev 2.121
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

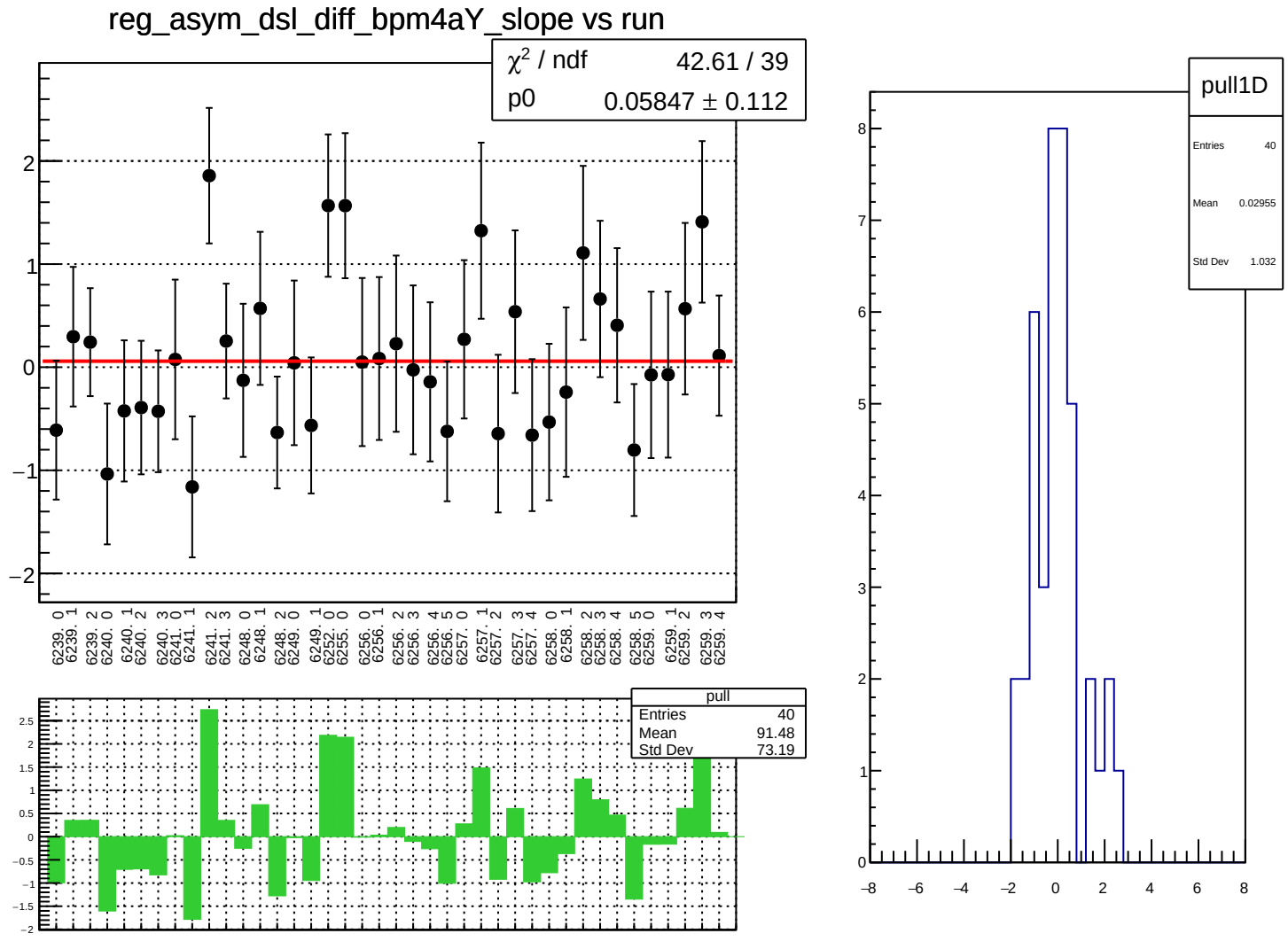

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 58.35 / 39
p0 6.271 ± 2.896
pull
Entries 40
Mean 140.4
Std Dev 123

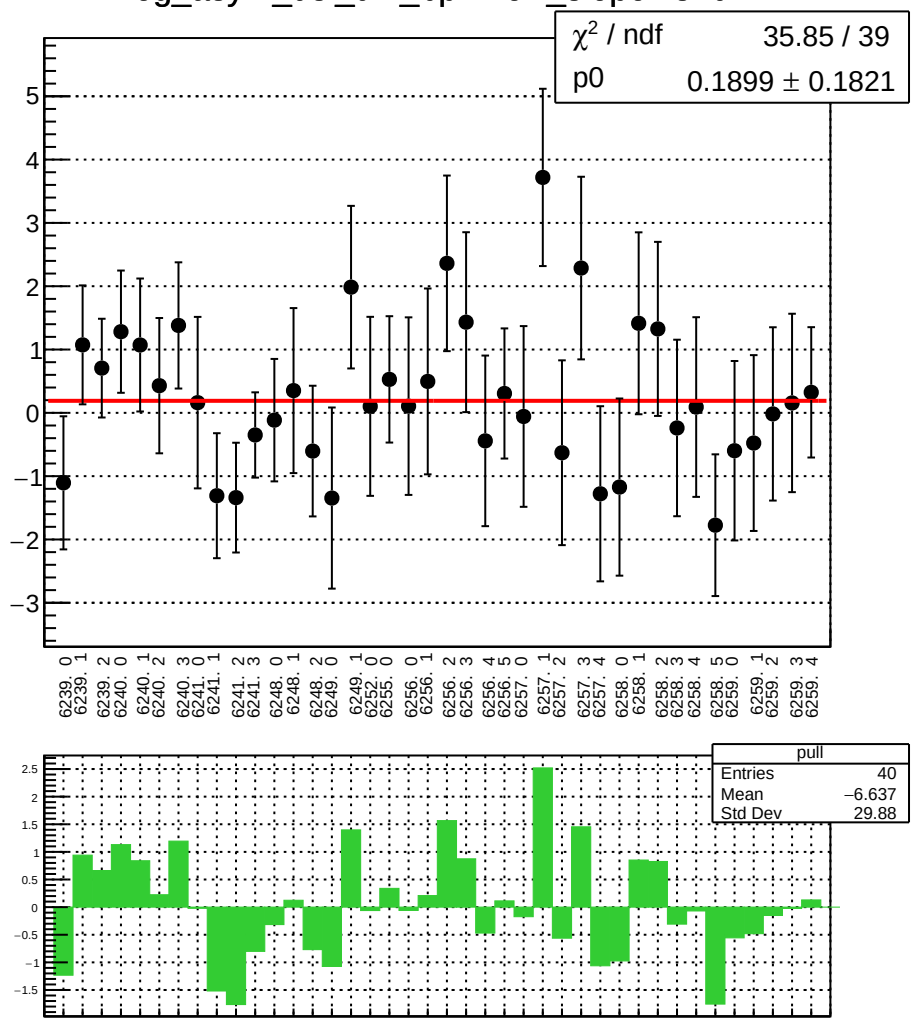

pull1D
Entries 40
Mean −0.07781
Std Dev 1.205

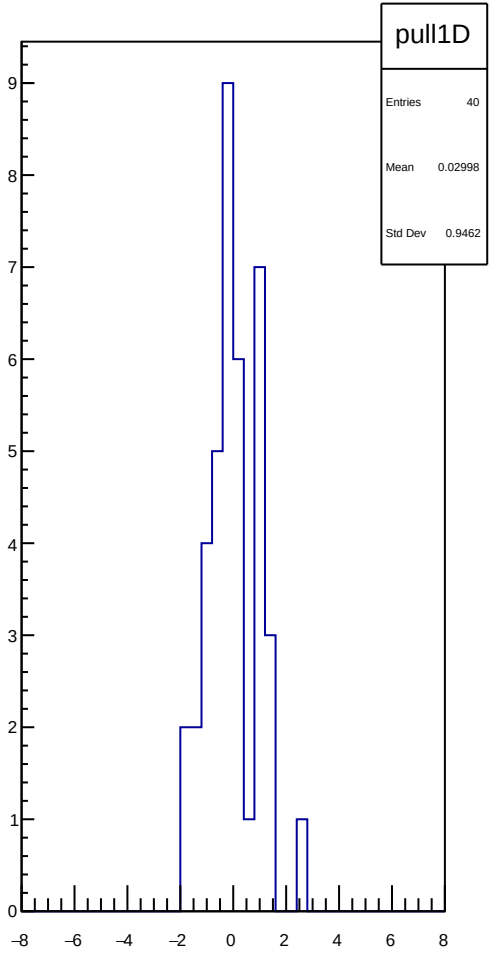

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 80.4 / 39
p0 −38.1 ± 0.2053
−34
−36
−38
−40
−42
−44
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 316
Std Dev 298.5
2
1
0
−1
−2
−3

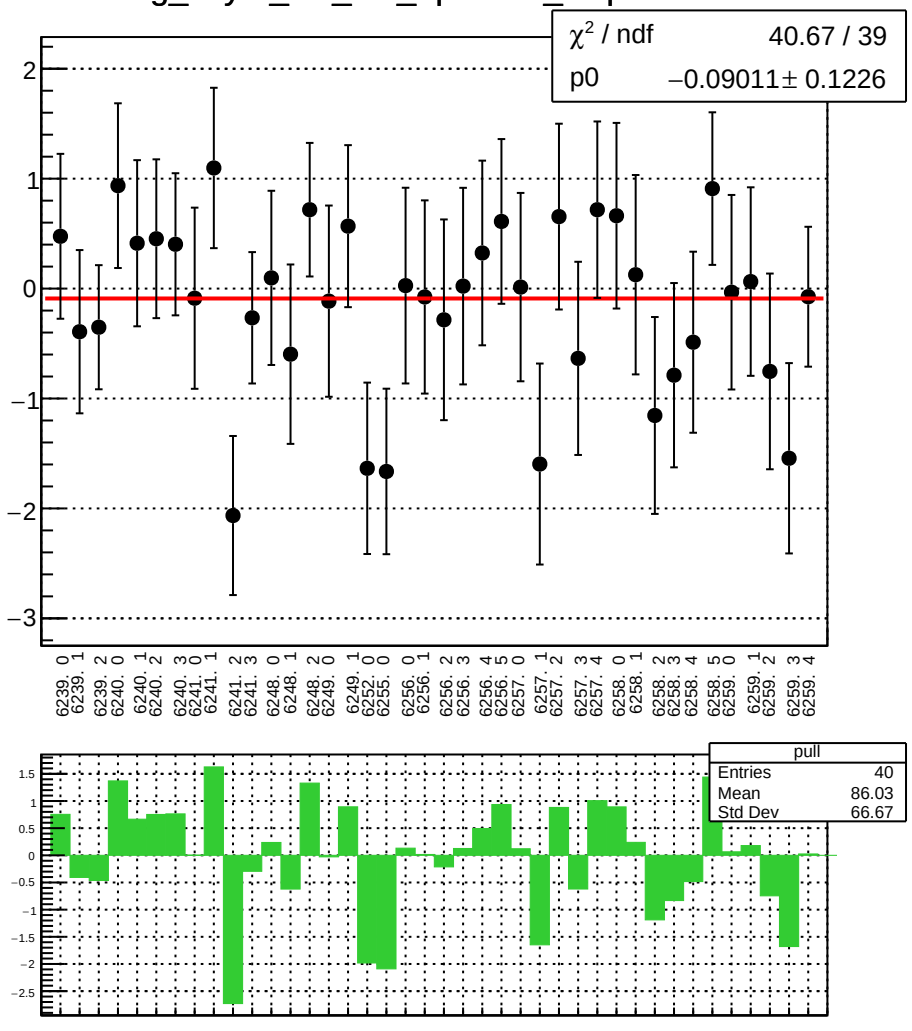

pull1D
Entries 40
Mean −0.03536
Std Dev 1.417
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

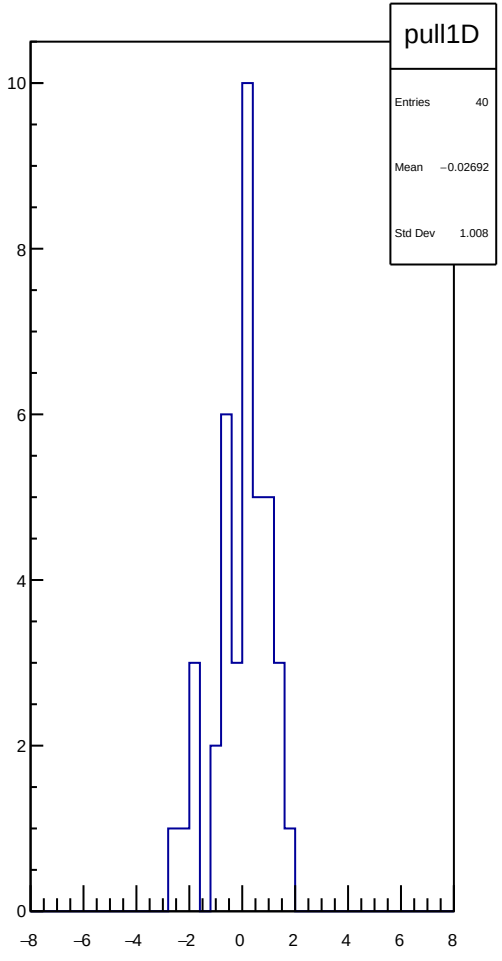

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 37.05 / 39
p0 −0.1573 ± 0.1575
pull
Entries 40
Mean 0.3142
Std Dev 23.5
pull1D
Entries 40
Mean −0.03038
Std Dev 0.9619

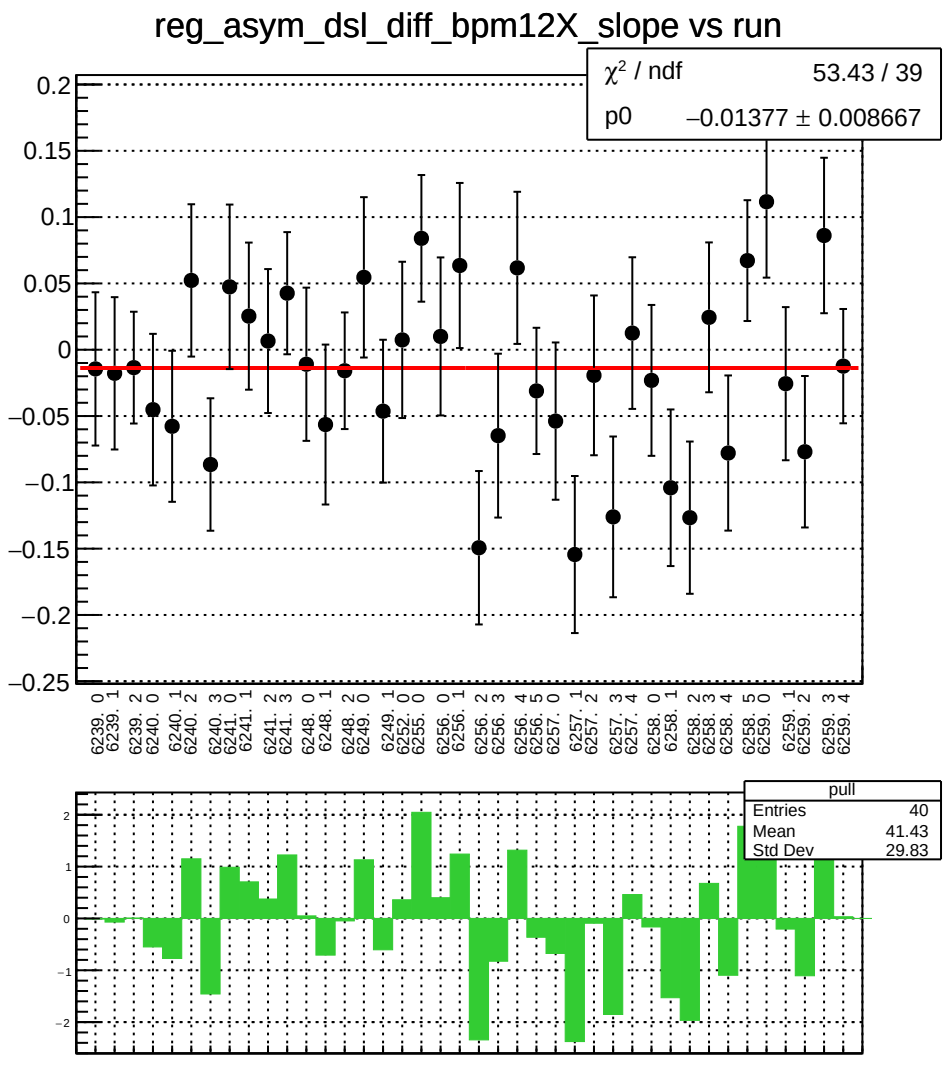

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 42.61 / 39
p0 0.05847 ± 0.112
pull
Entries 40
Mean 91.48
Std Dev 73.19
pull1D
Entries 40
Mean 0.02955
Std Dev 1.032

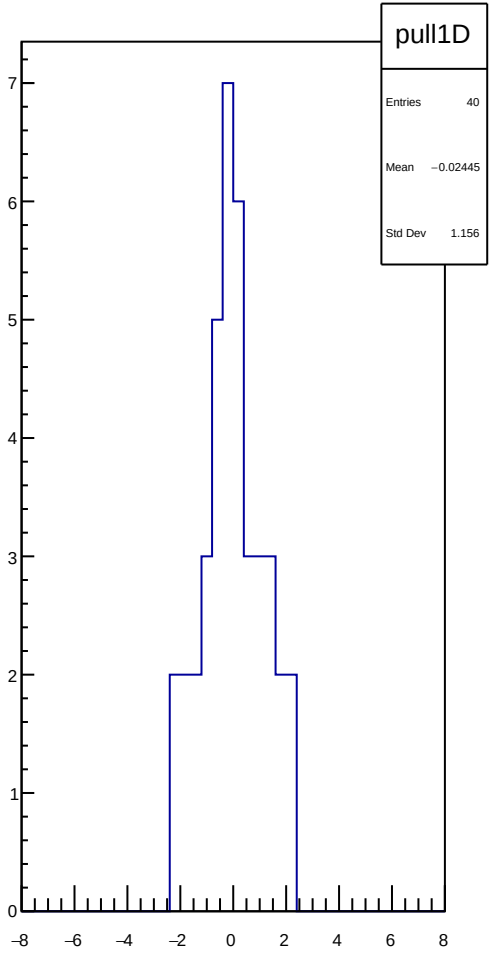

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 35.85 / 39
p0 0.1899 ± 0.1821
pull
Entries 40
Mean −6.637
Std Dev 29.88

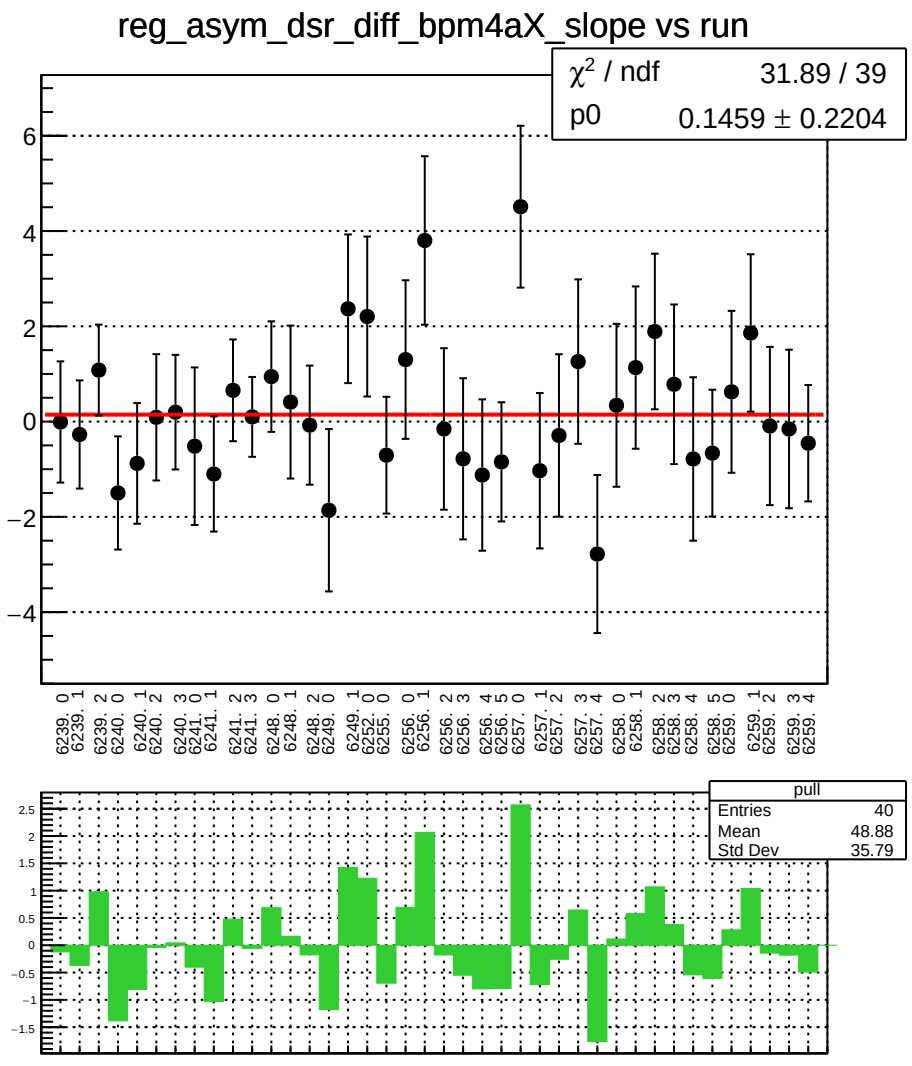

pull1D
Entries 40
Mean 0.02998
Std Dev 0.9462

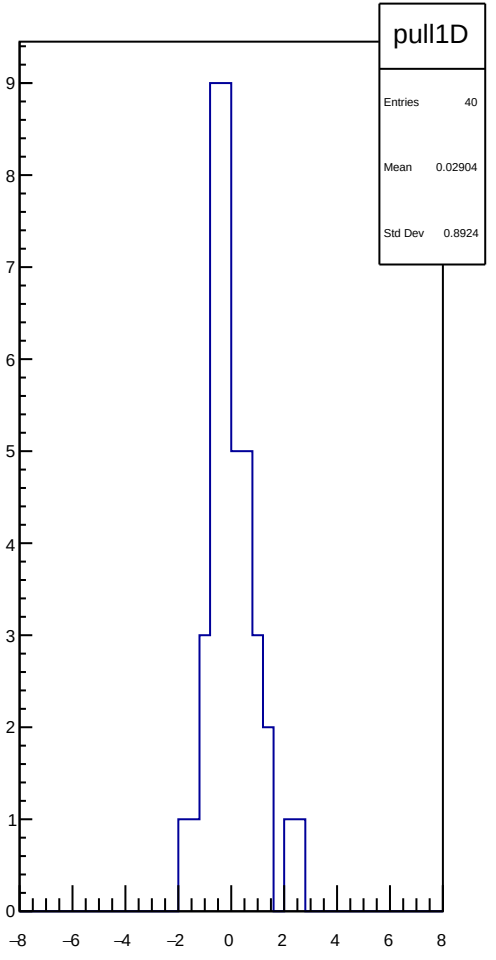

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 40.67 / 39
p0 −0.09011± 0.1226
pull
Entries 40
Mean 86.03
Std Dev 66.67

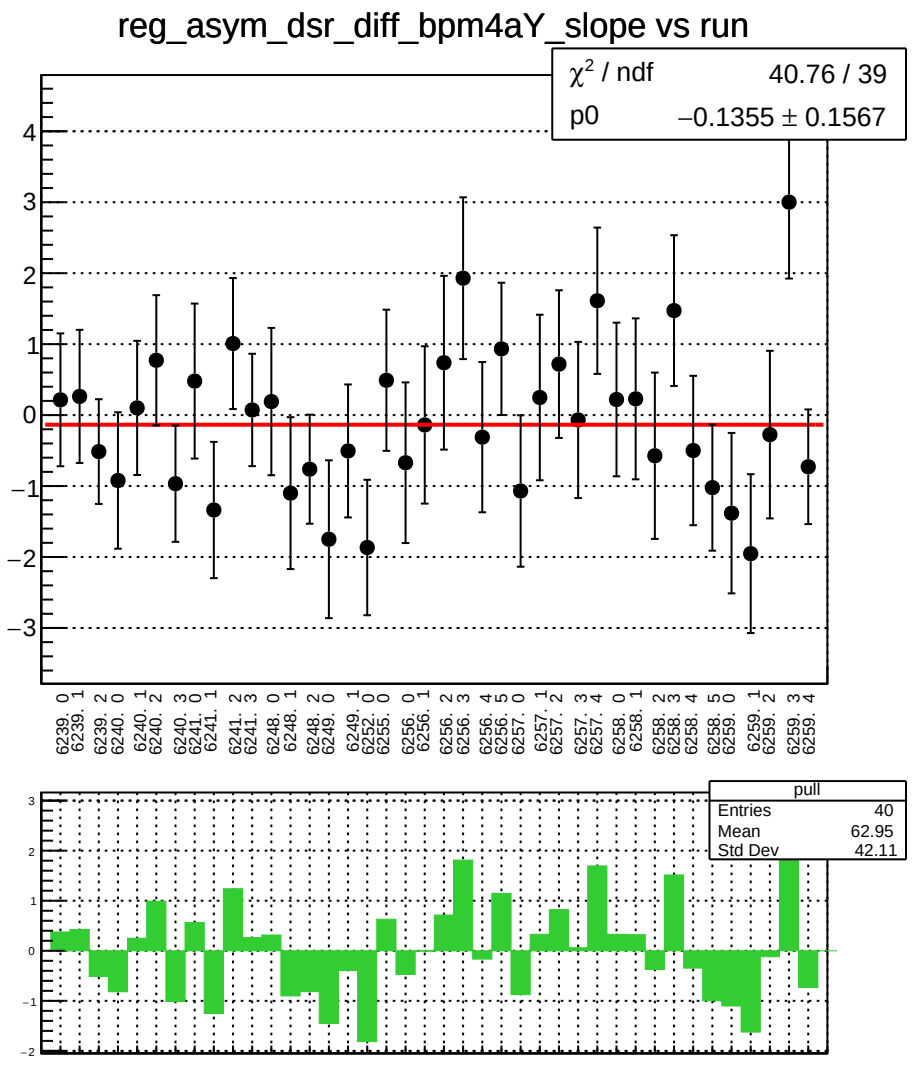

pull1D
Entries 40
Mean −0.02692
Std Dev 1.008

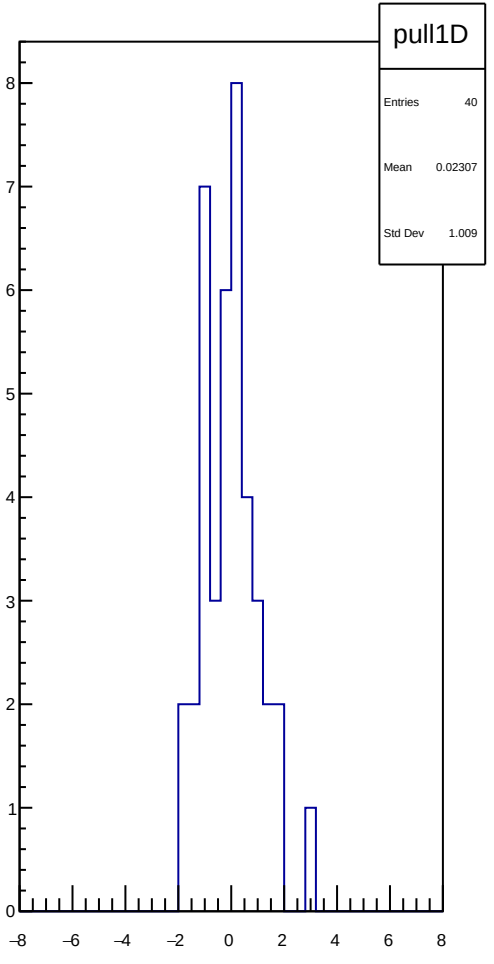

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 53.43 / 39
p0 −0.01377 ± 0.008667
pull
Entries 40
Mean 41.43
Std Dev 29.83

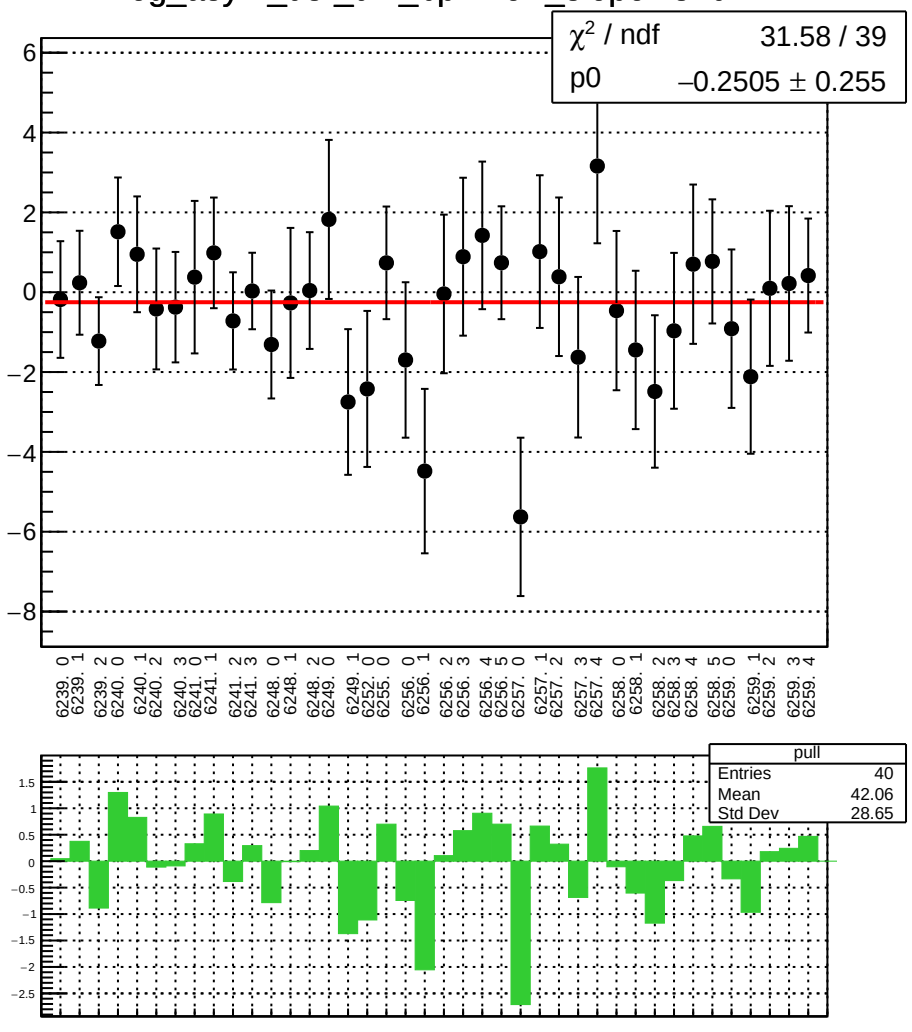

pull1D
Entries 40
Mean −0.02445
Std Dev 1.156

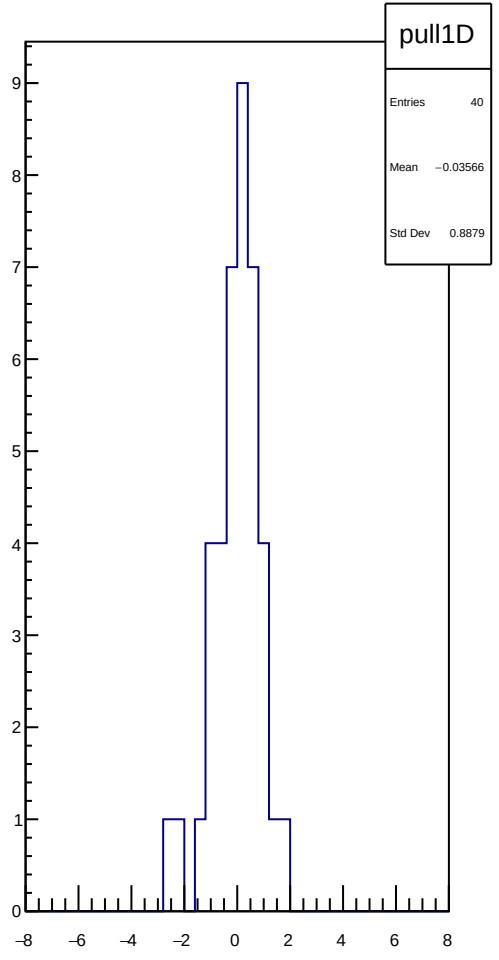

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 31.89 / 39
p0 0.1459 ± 0.2204
6
4
2
0
−2
−4
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 48.88
Std Dev 35.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

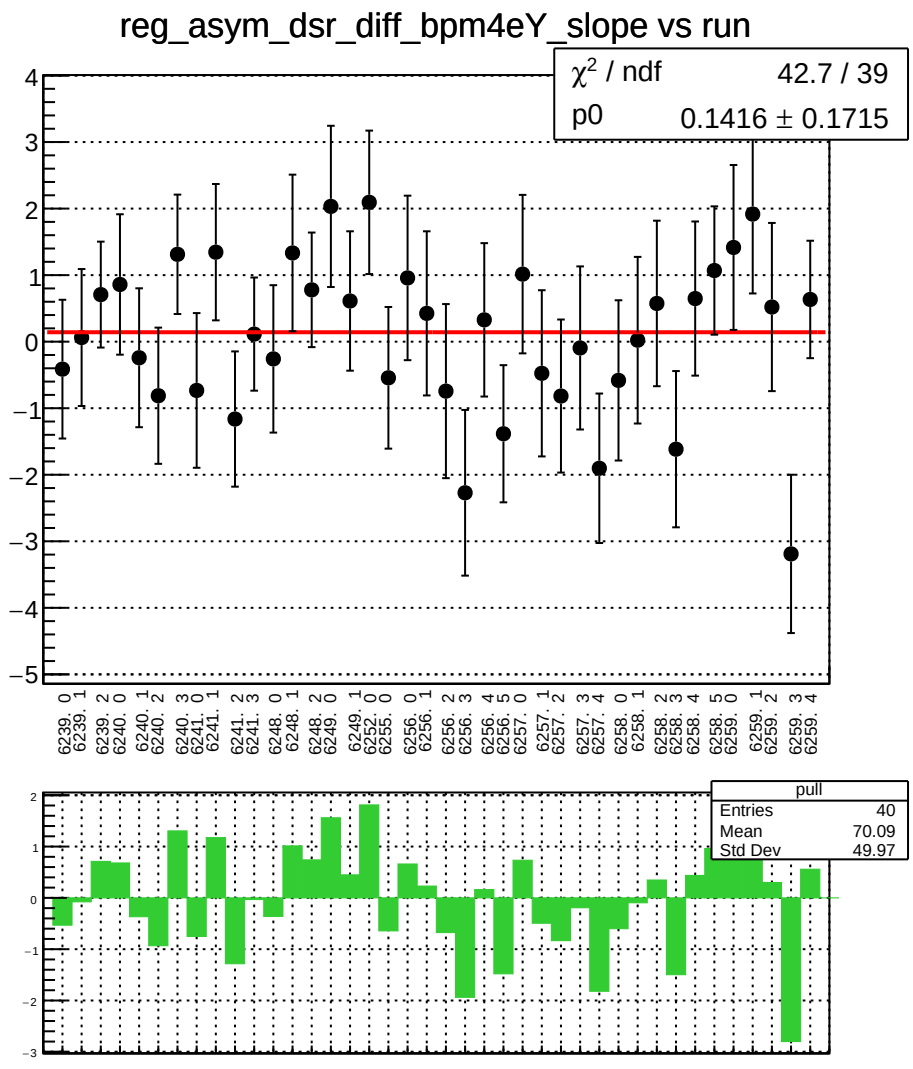

pull1D
Entries 40
Mean 0.02904
Std Dev 0.8924
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

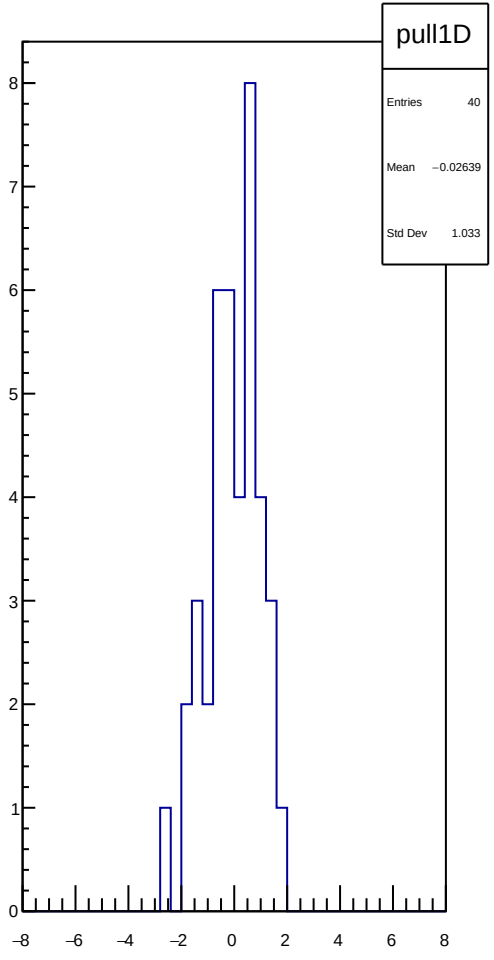

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 40.76 / 39
p0 −0.1355 ± 0.1567
pull
Entries 40
Mean 62.95
Std Dev 42.11

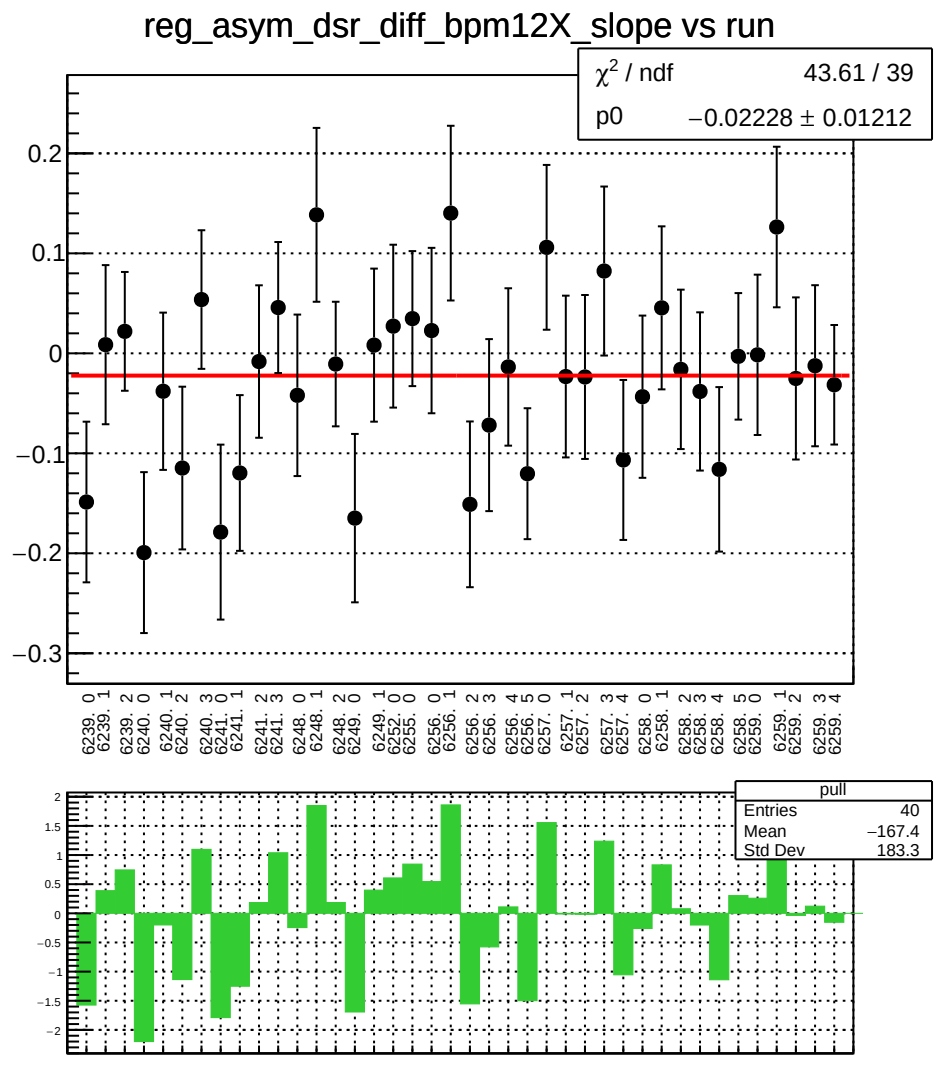

pull1D
Entries 40
Mean 0.02307
Std Dev 1.009

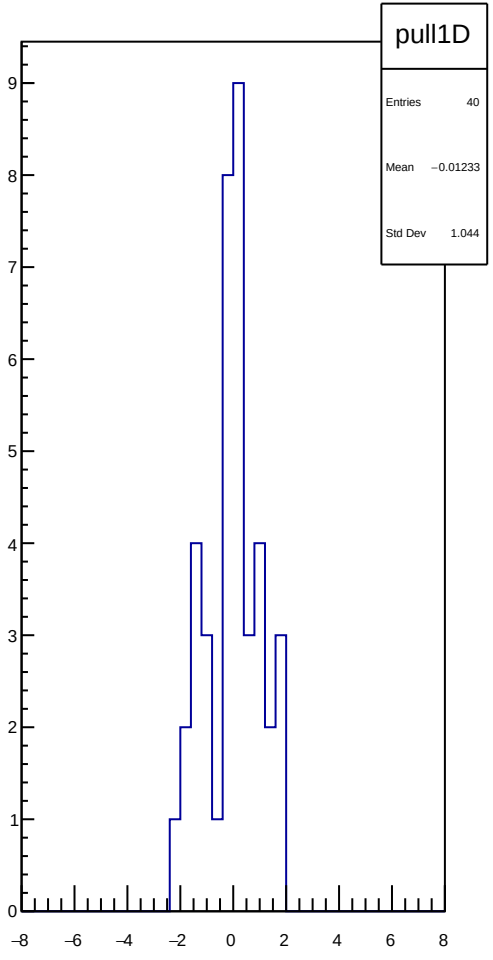

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 31.58 / 39
p0 −0.2505 ± 0.255
pull
Entries 40
Mean 42.06
Std Dev 28.65

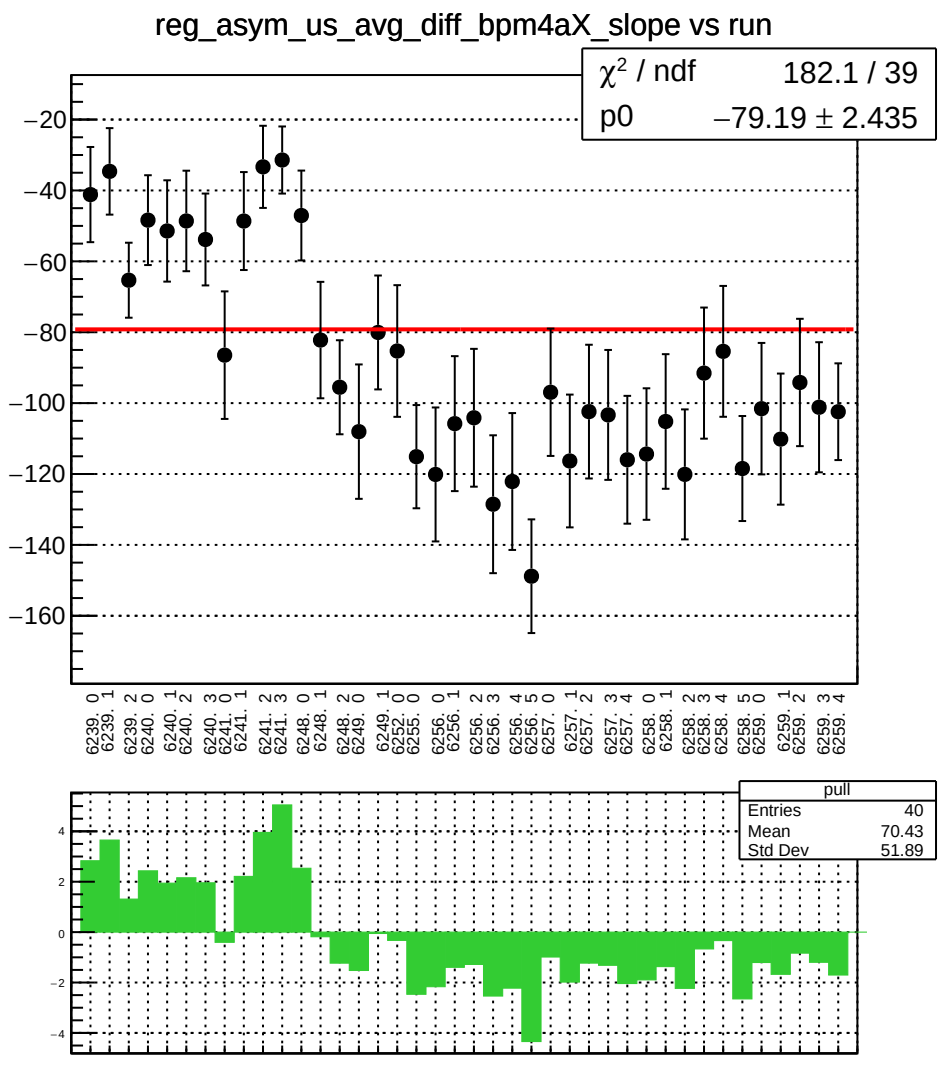

pull1D
Entries 40
Mean −0.03566
Std Dev 0.8879

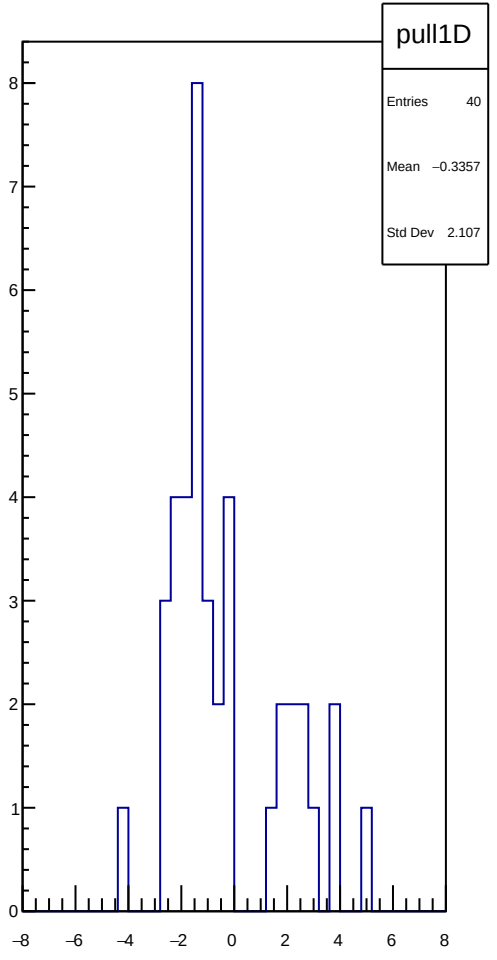

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 42.7 / 39
p0 0.1416 ± 0.1715
pull
Entries 40
Mean 70.09
Std Dev 49.97

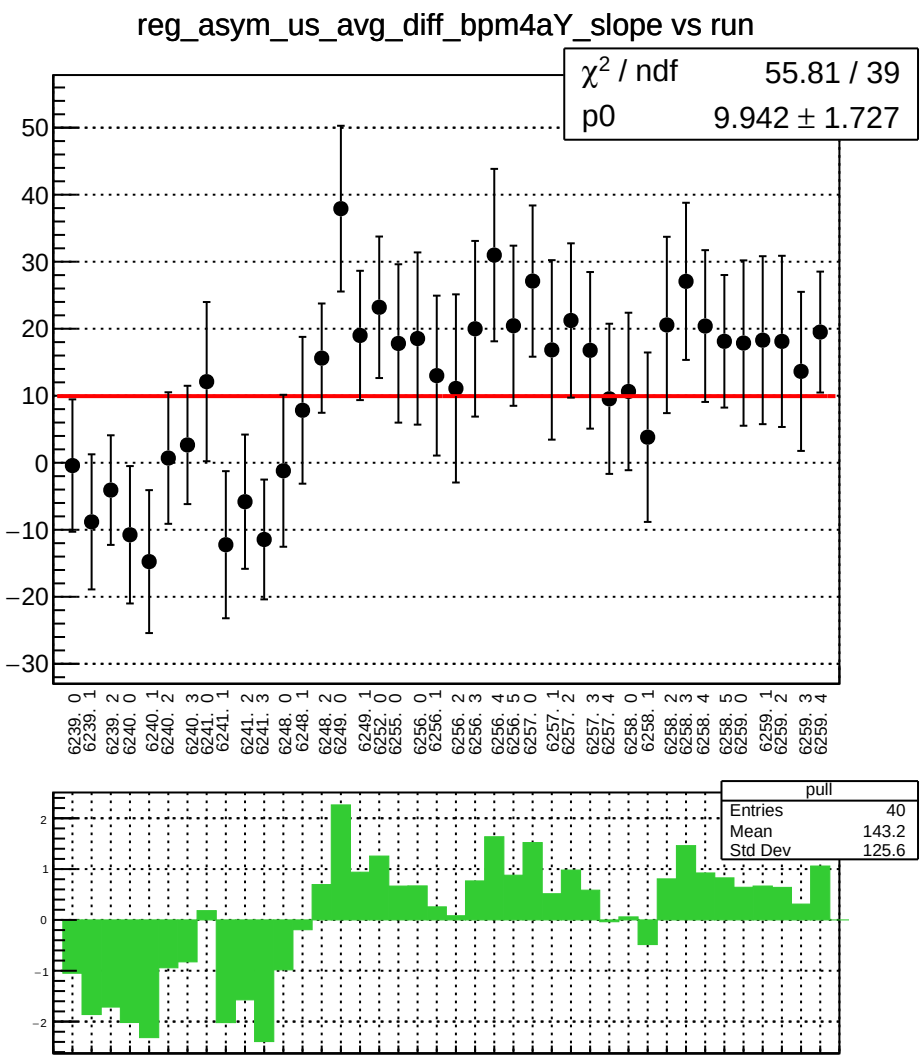

pull1D
Entries 40
Mean −0.02639
Std Dev 1.033

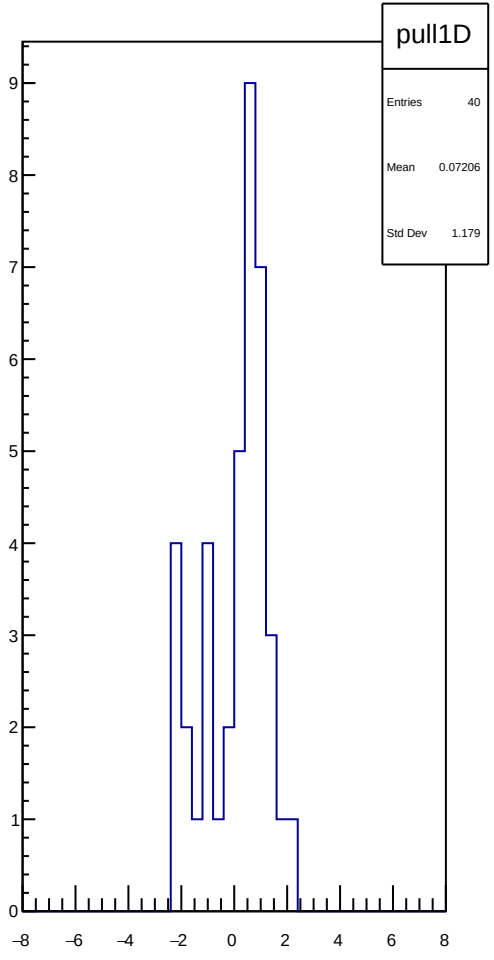

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 43.61 / 39
p0 −0.02228 ± 0.01212
0.2
0.1
0
−0.1
−0.2
−0.3
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −167.4
Std Dev 183.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

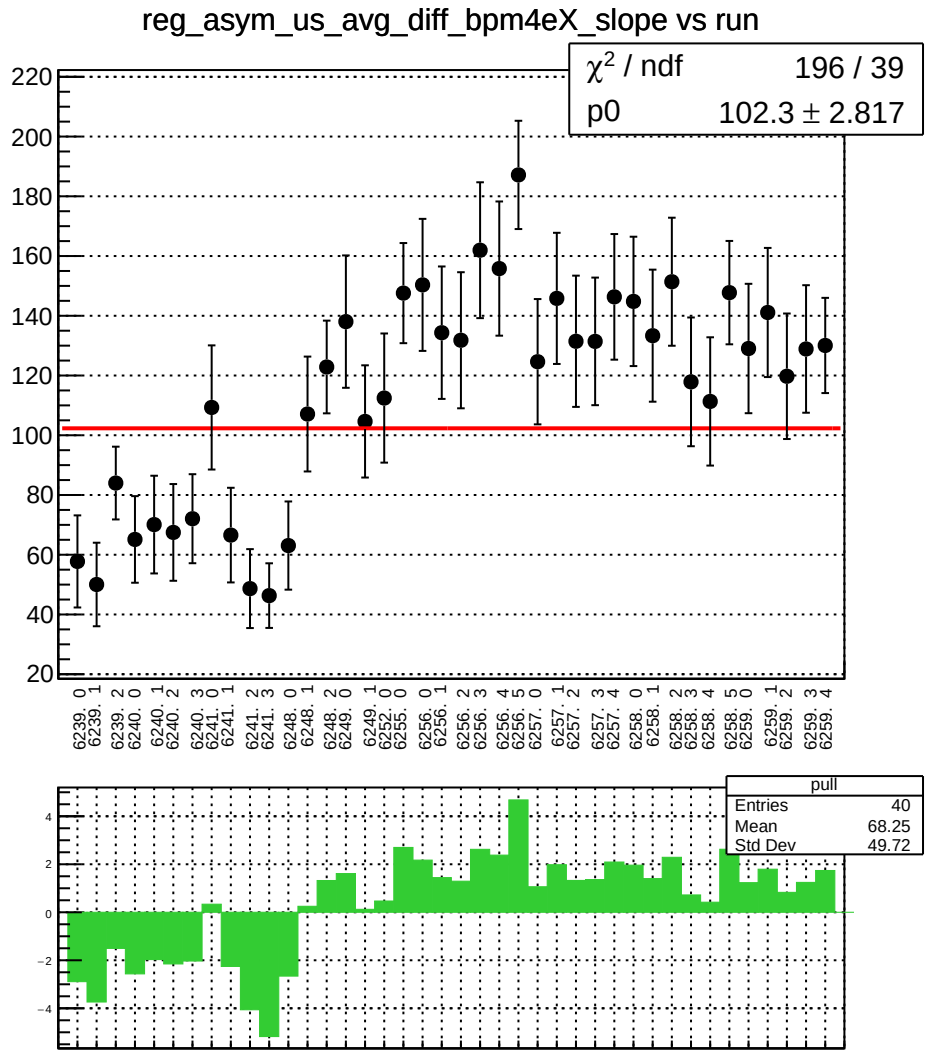

pull1D
Entries 40
Mean −0.01233
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

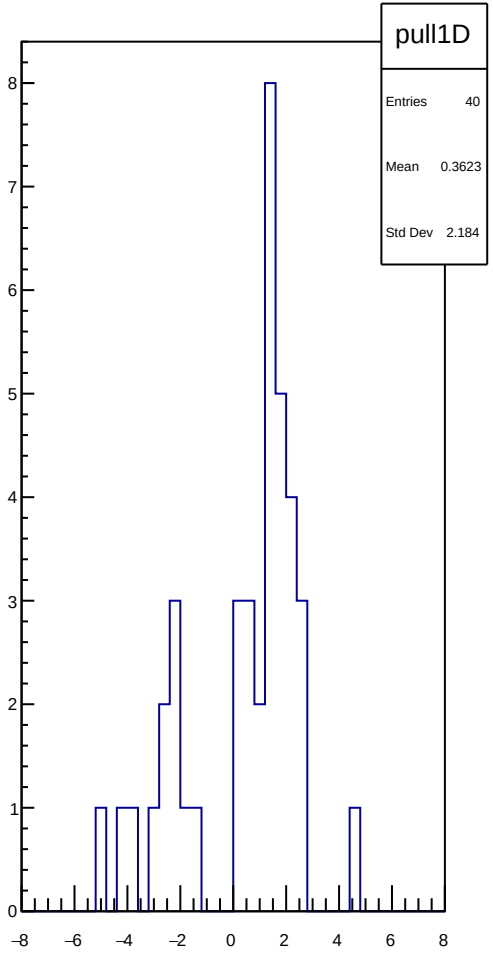

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 182.1 / 39
p0 −79.19 ± 2.435
pull
Entries 40
Mean 70.43
Std Dev 51.89

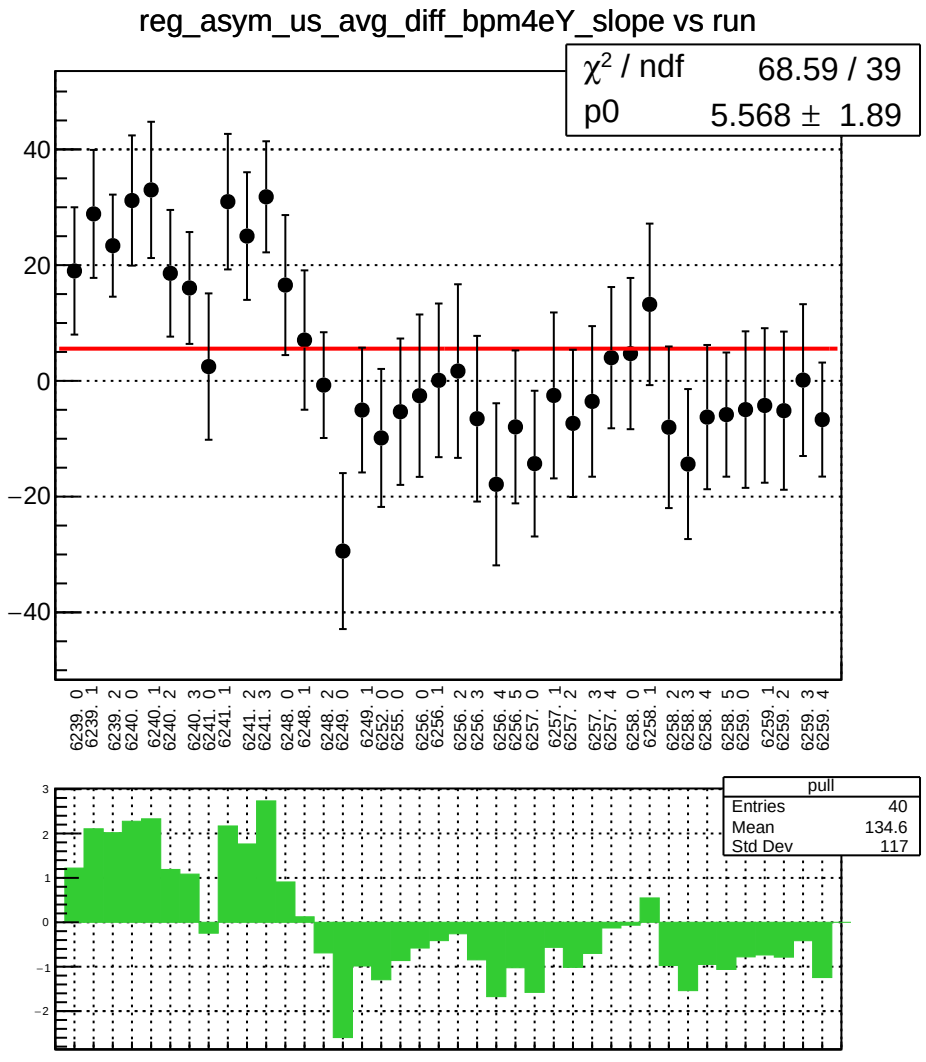

pull1D
Entries 40
Mean −0.3357
Std Dev 2.107

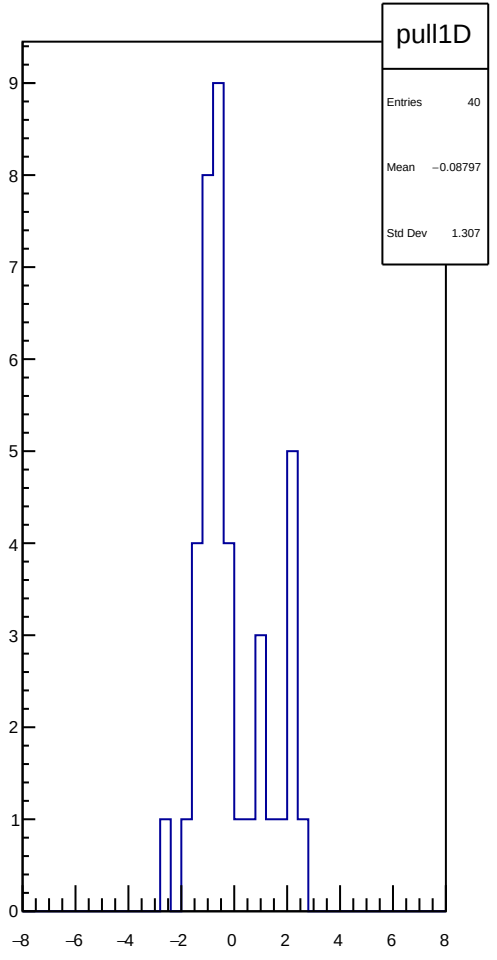

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.81 / 39
p0 9.942 ± 1.727
pull
Entries 40
Mean 143.2
Std Dev 125.6

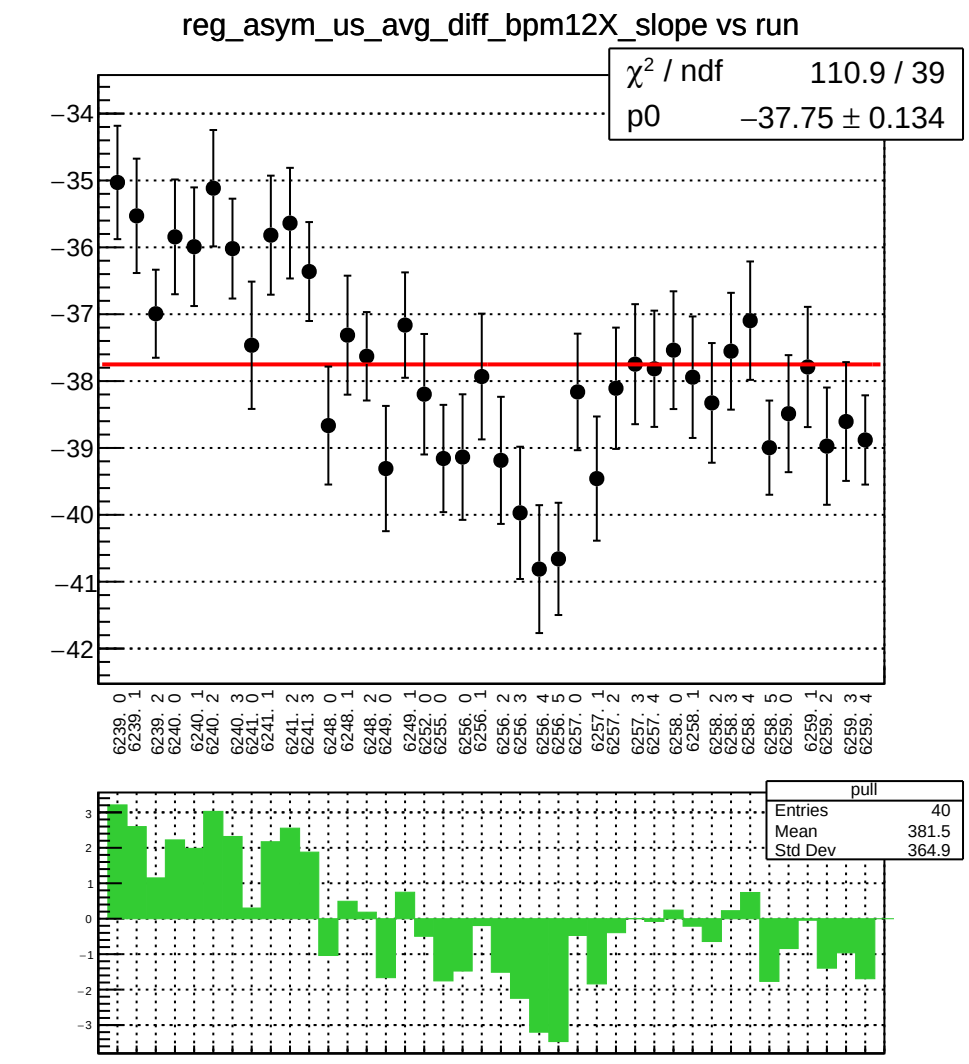

pull1D
Entries 40
Mean 0.07206
Std Dev 1.179

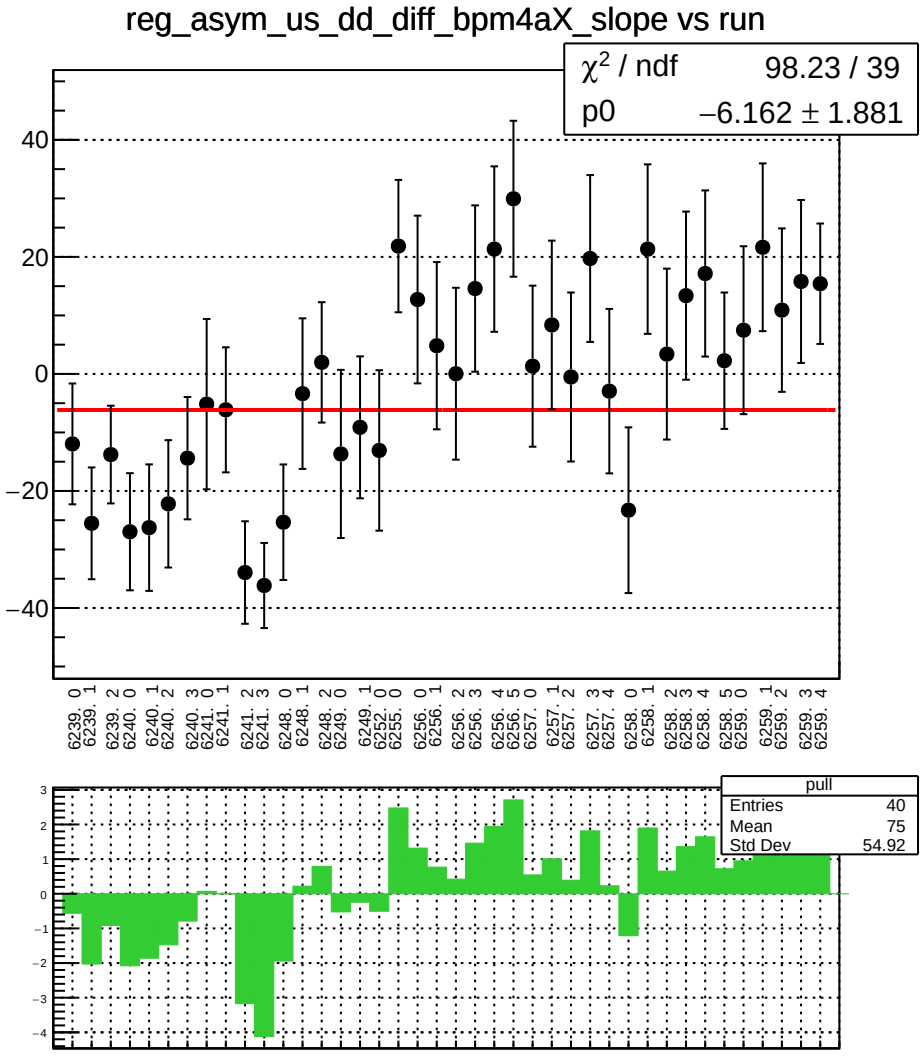

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 196 / 39
p0 102.3 ± 2.817
pull
Entries 40
Mean 68.25
Std Dev 49.72

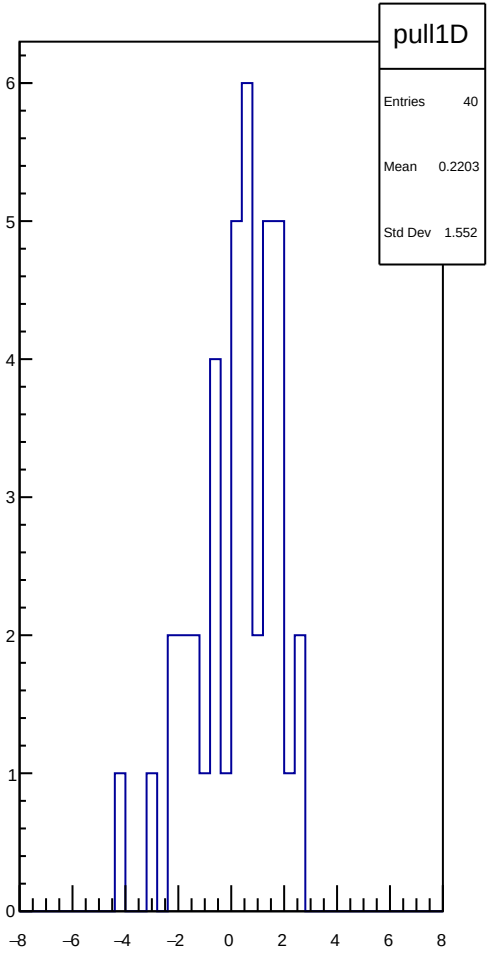

pull1D
Entries 40
Mean 0.3623
Std Dev 2.184

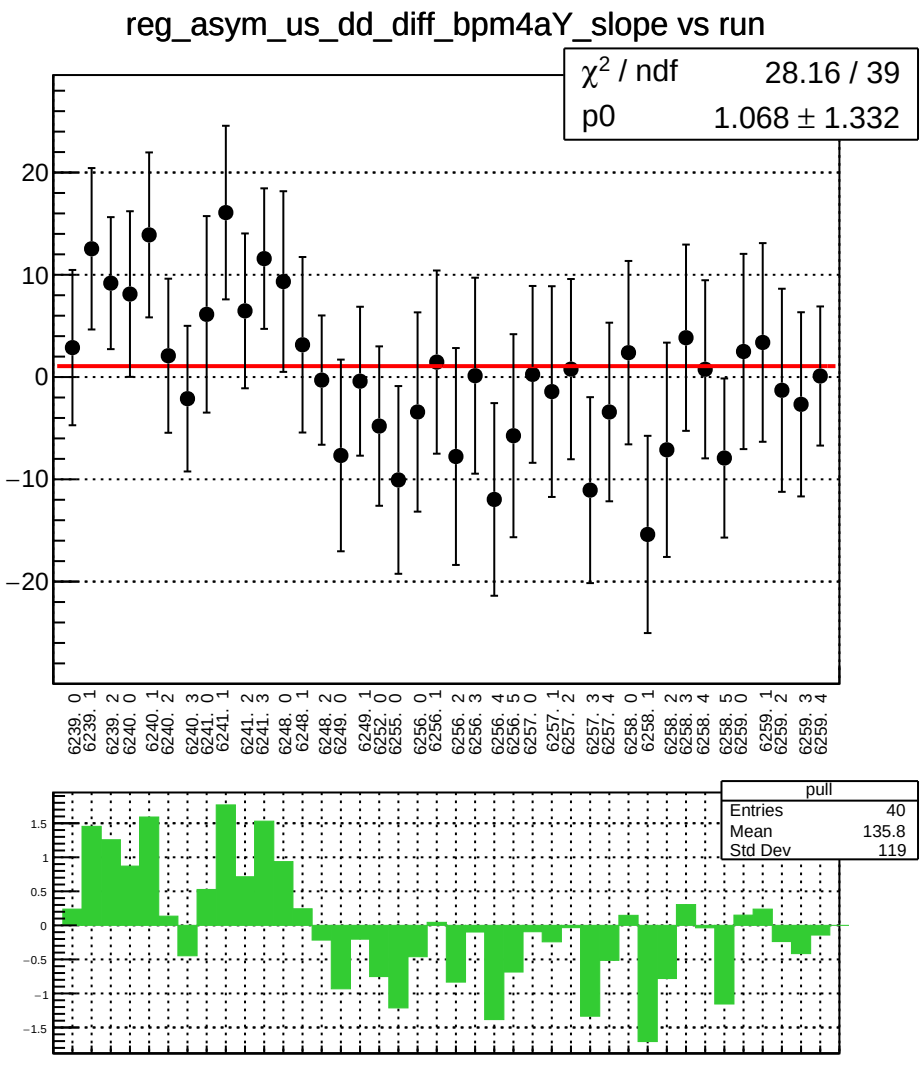

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.59 / 39
p0 5.568 ± 1.89
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 134.6
Std Dev 117
3
2
1
0
−1
−2

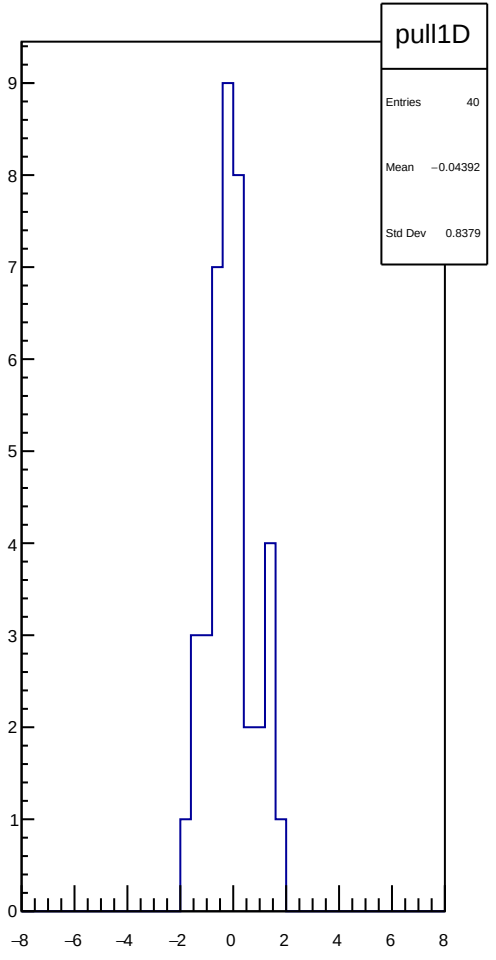

pull1D
Entries 40
Mean −0.08797
Std Dev 1.307
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

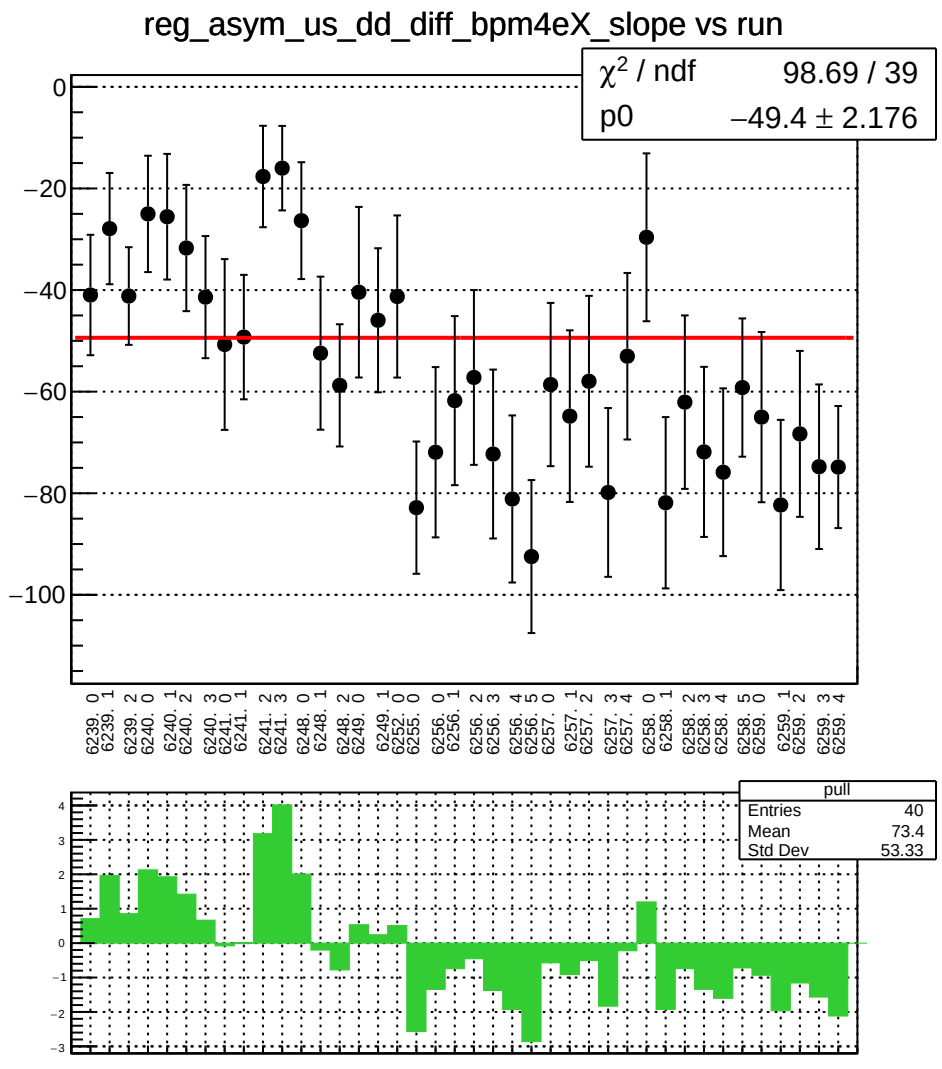

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 110.9 / 39
p0 −37.75 ± 0.134
−34
−35
−36
−37
−38
−39
−40
−41
−42
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 381.5
Std Dev 364.9
3
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean −0.03301
Std Dev 1.665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

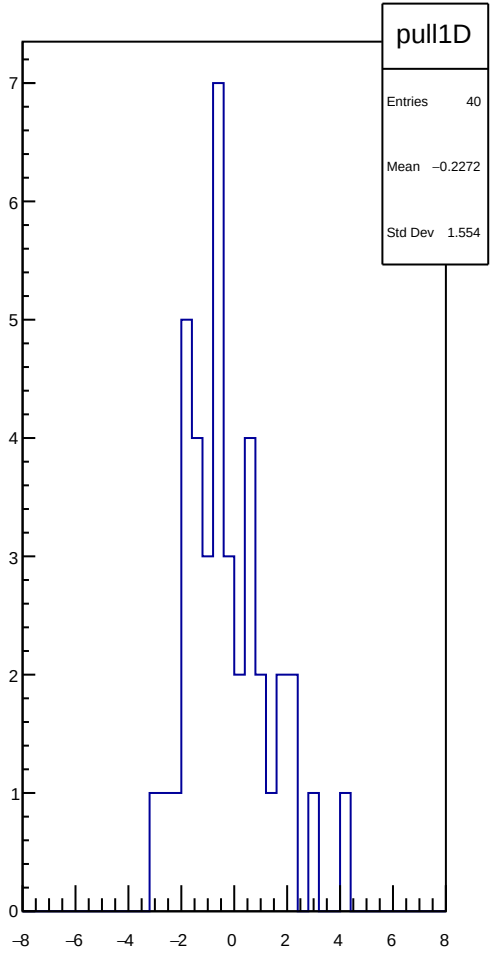

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 98.23 / 39
p0 −6.162 ± 1.881
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 75
Std Dev 54.92
3
2
1
0
−1
−2
−3
−4

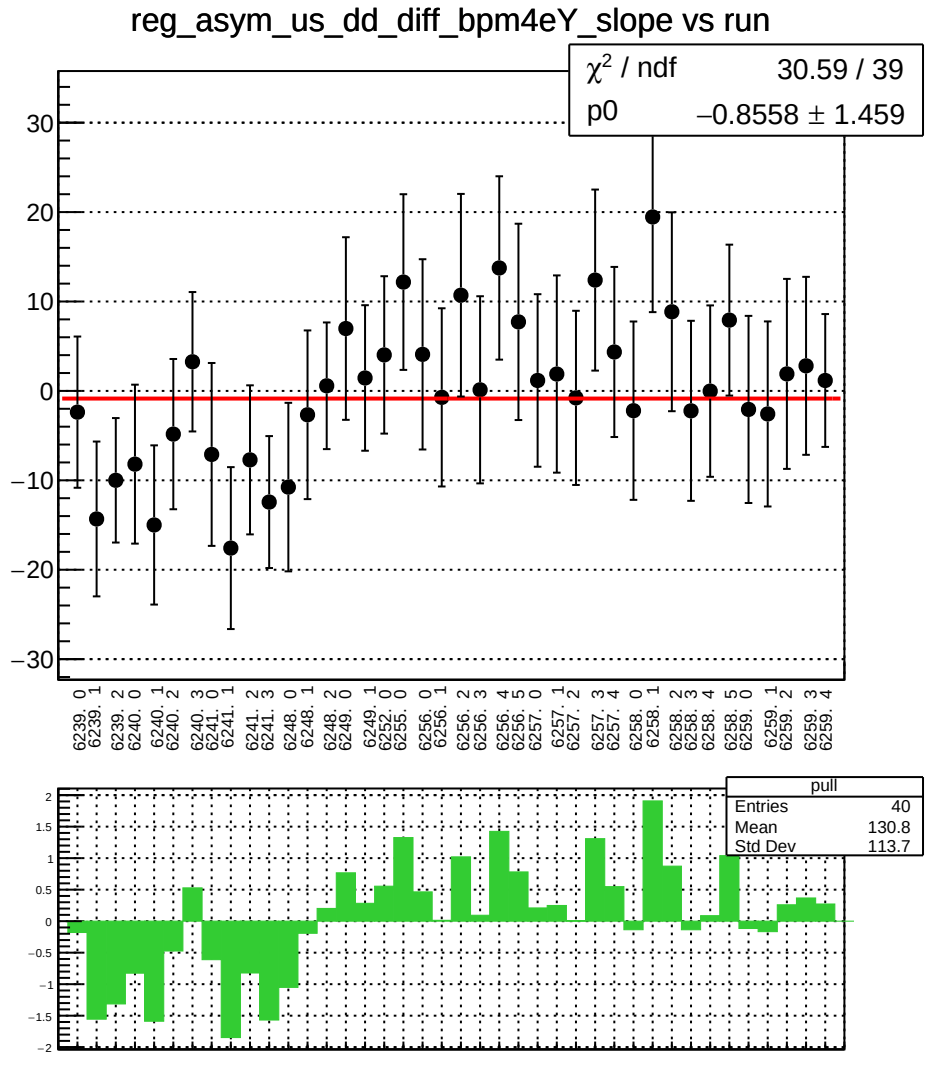

pull1D
Entries 40
Mean 0.2203
Std Dev 1.552
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

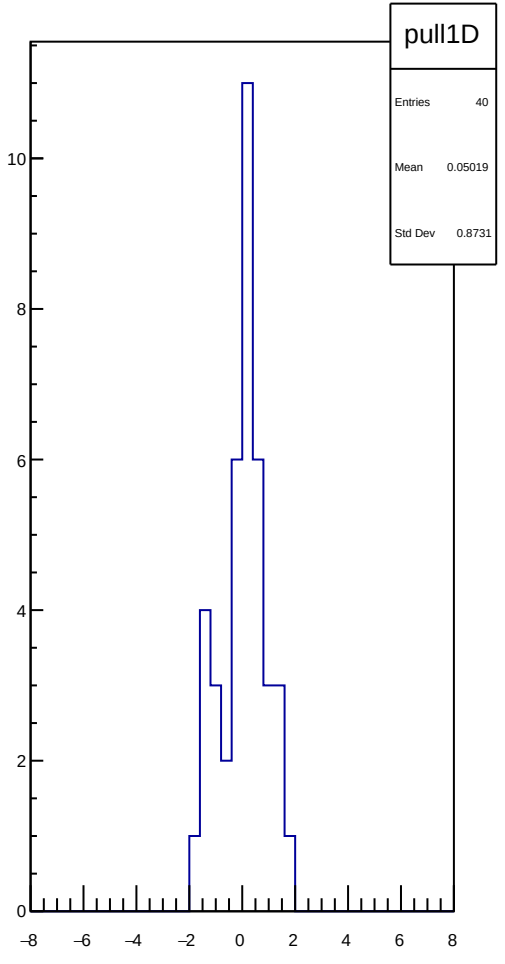

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.16 / 39
p0 1.068 ± 1.332
20
10
0
−10
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 135.8
Std Dev 119
1.5
1
0.5
0
−0.5
−1
−1.5

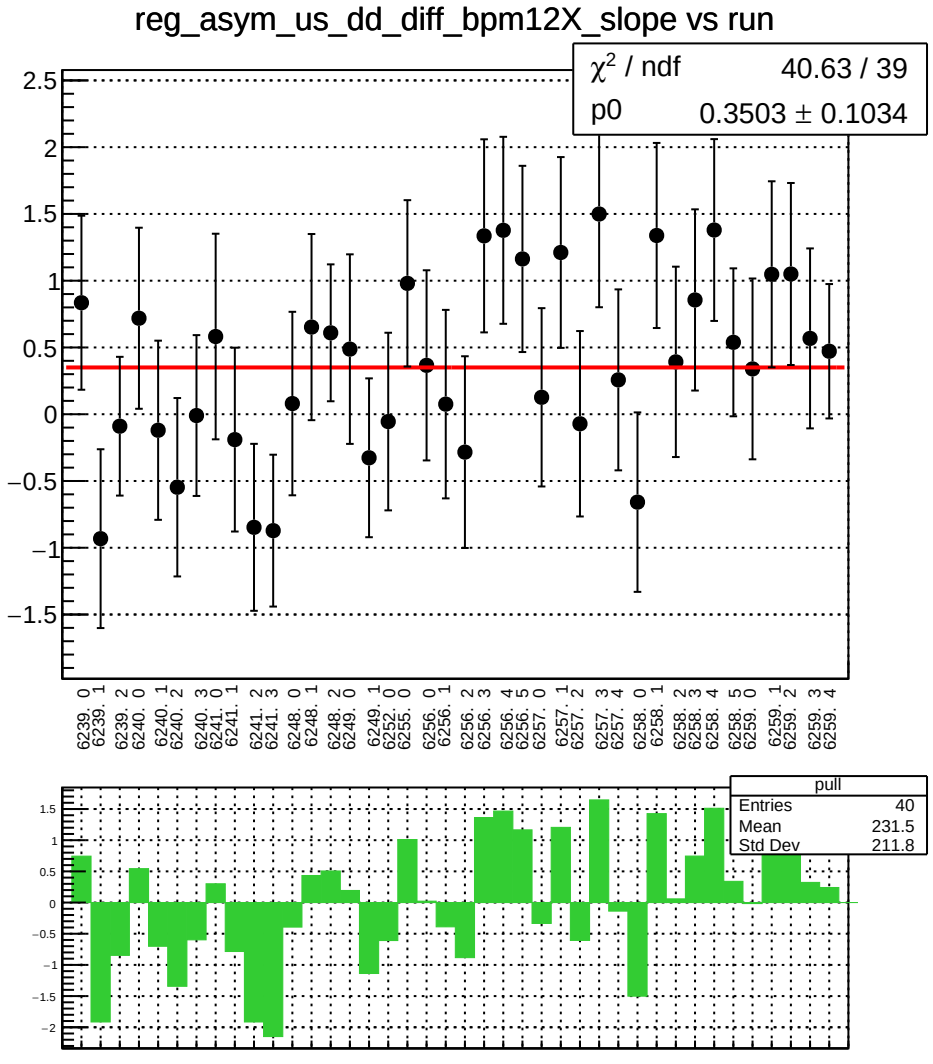

pull1D
Entries 40
Mean −0.04392
Std Dev 0.8379
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

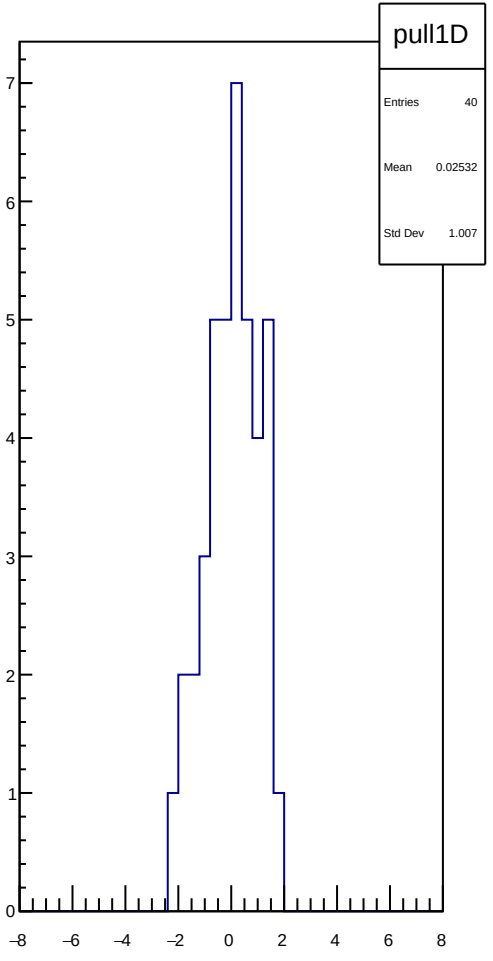

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.69 / 39
p0 −49.4 ± 2.176
0
−20
−40
−60
−80
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 73.4
Std Dev 53.33
4
3
2
1
0
−1
−2
−3

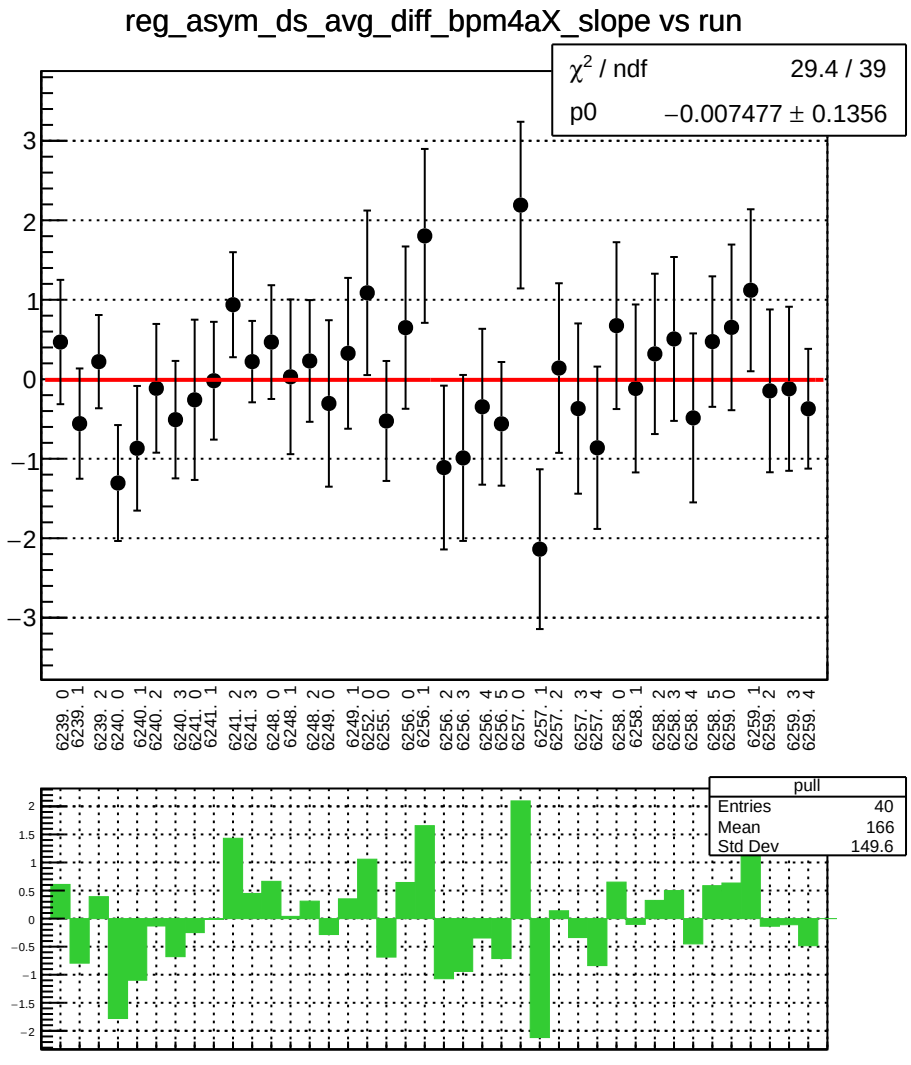

pull1D
Entries 40
Mean −0.2272
Std Dev 1.554
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

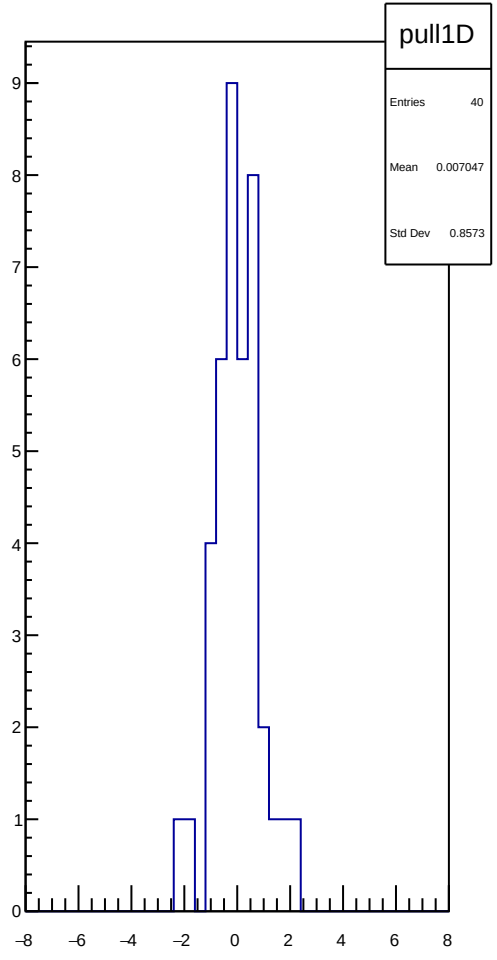

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.59 / 39
p0 −0.8558 ± 1.459
pull
Entries 40
Mean 130.8
Std Dev 113.7

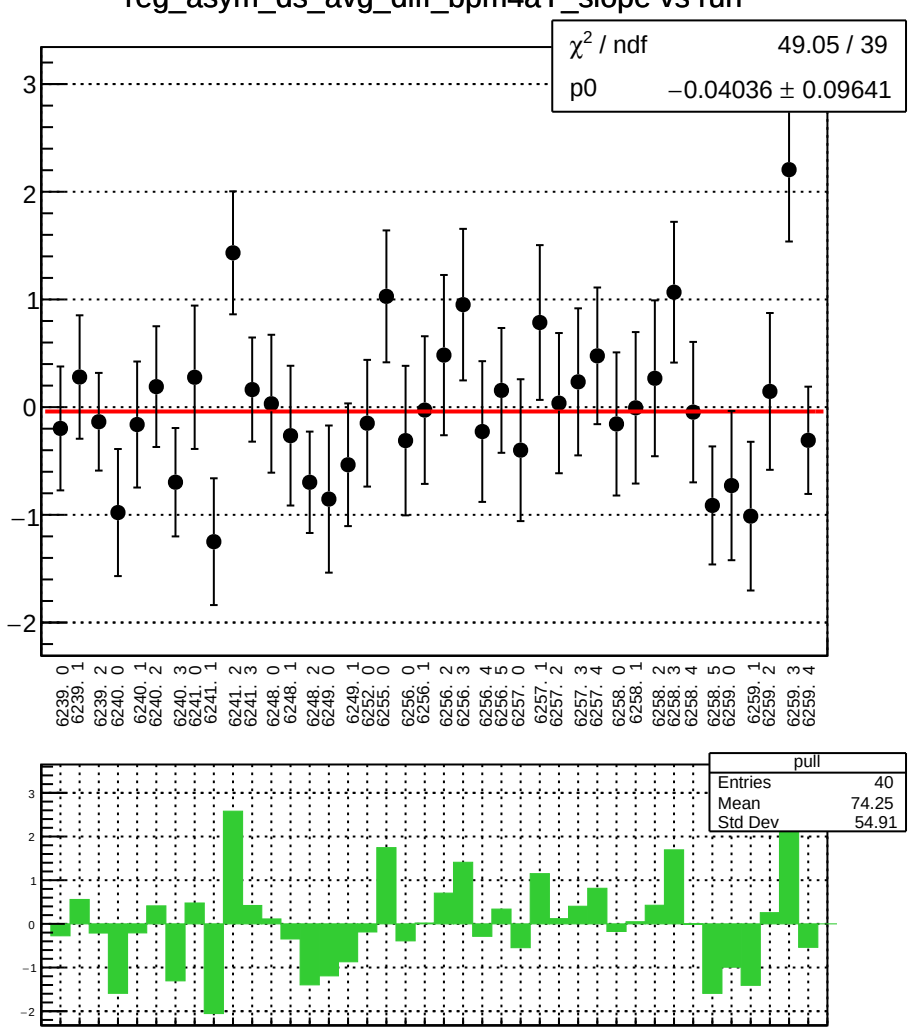

pull1D
Entries 40
Mean 0.05019
Std Dev 0.8731

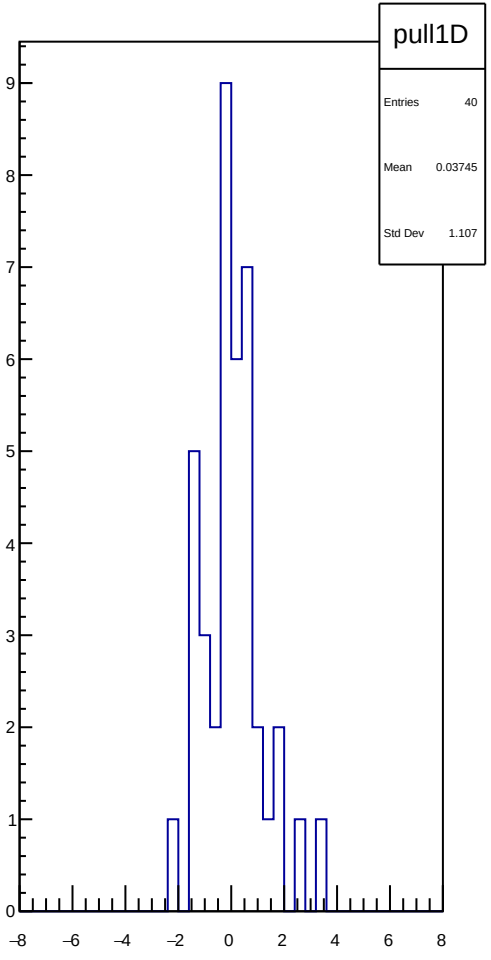

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 40.63 / 39
p0 0.3503 ± 0.1034
pull
Entries 40
Mean 231.5
Std Dev 211.8

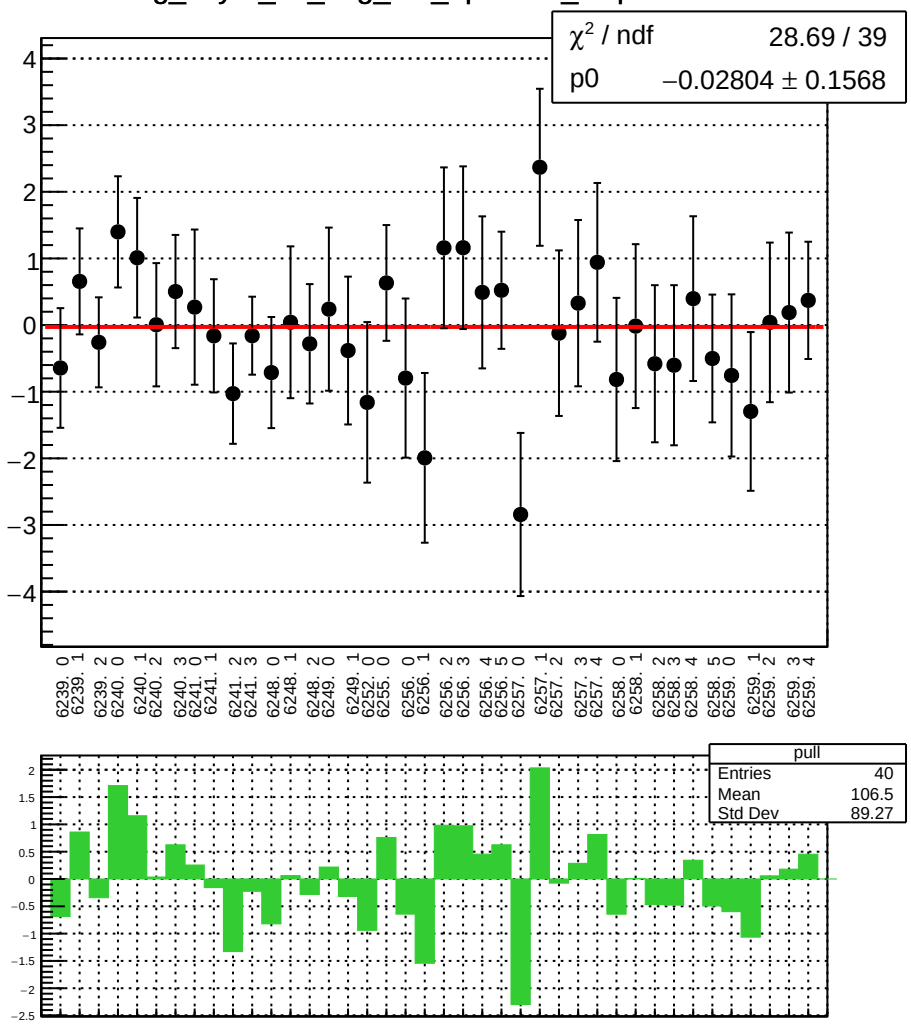

pull1D
Entries 40
Mean 0.02532
Std Dev 1.007

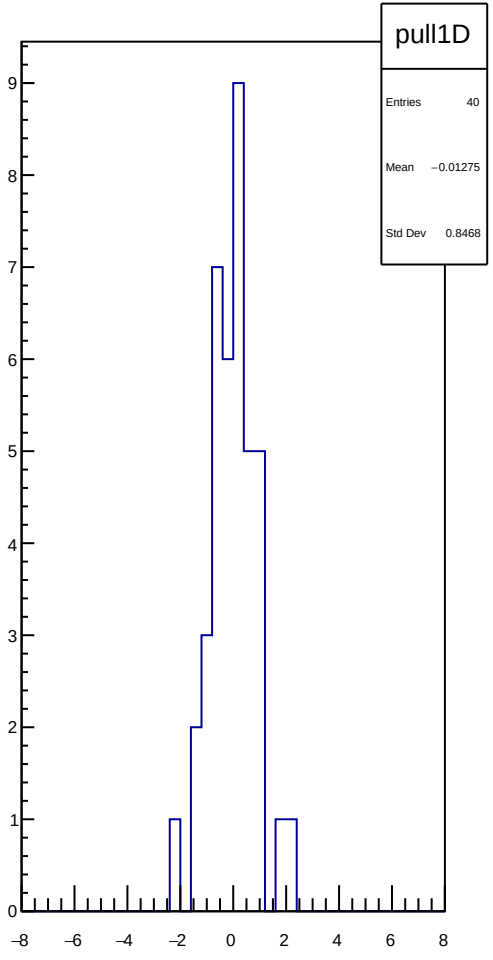

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 29.4 / 39
p0 −0.007477 ± 0.1356
pull
Entries 40
Mean 166
Std Dev 149.6

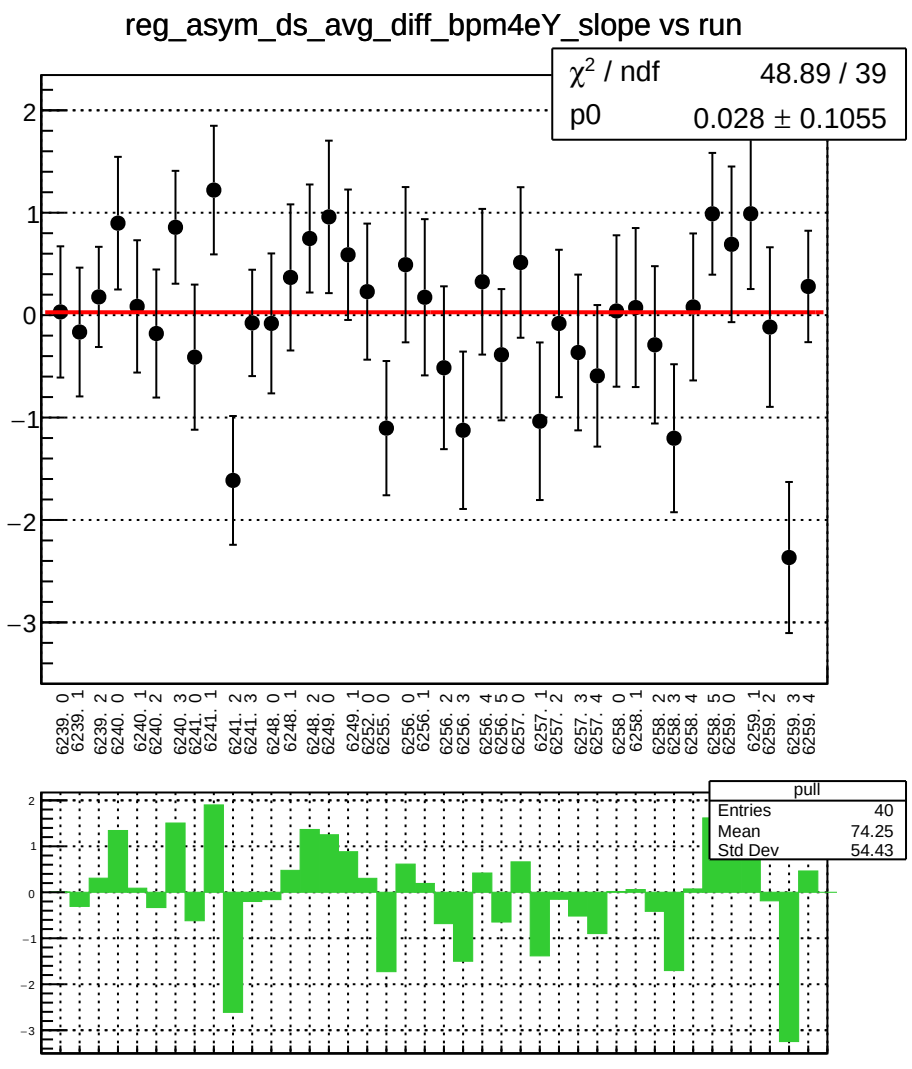

pull1D
Entries 40
Mean 0.007047
Std Dev 0.8573

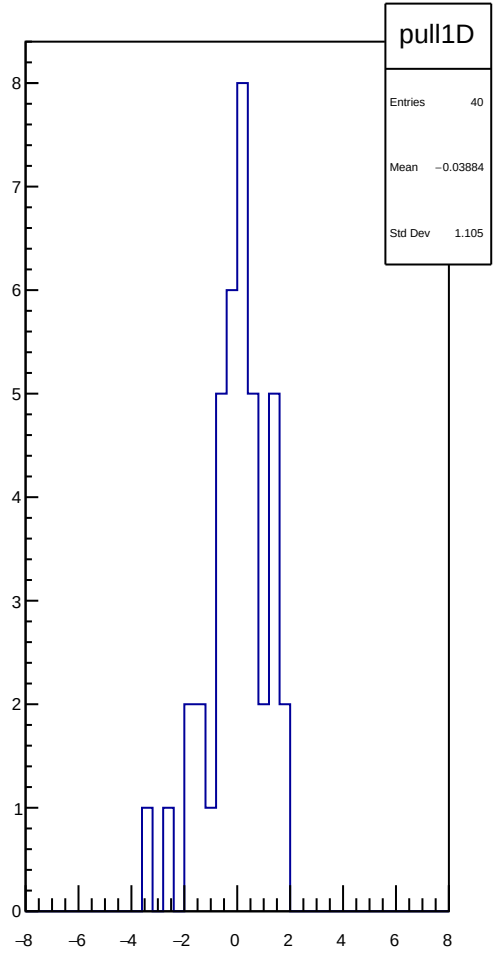

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.05 / 39
p0 −0.04036 ± 0.09641
pull
Entries 40
Mean 74.25
Std Dev 54.91

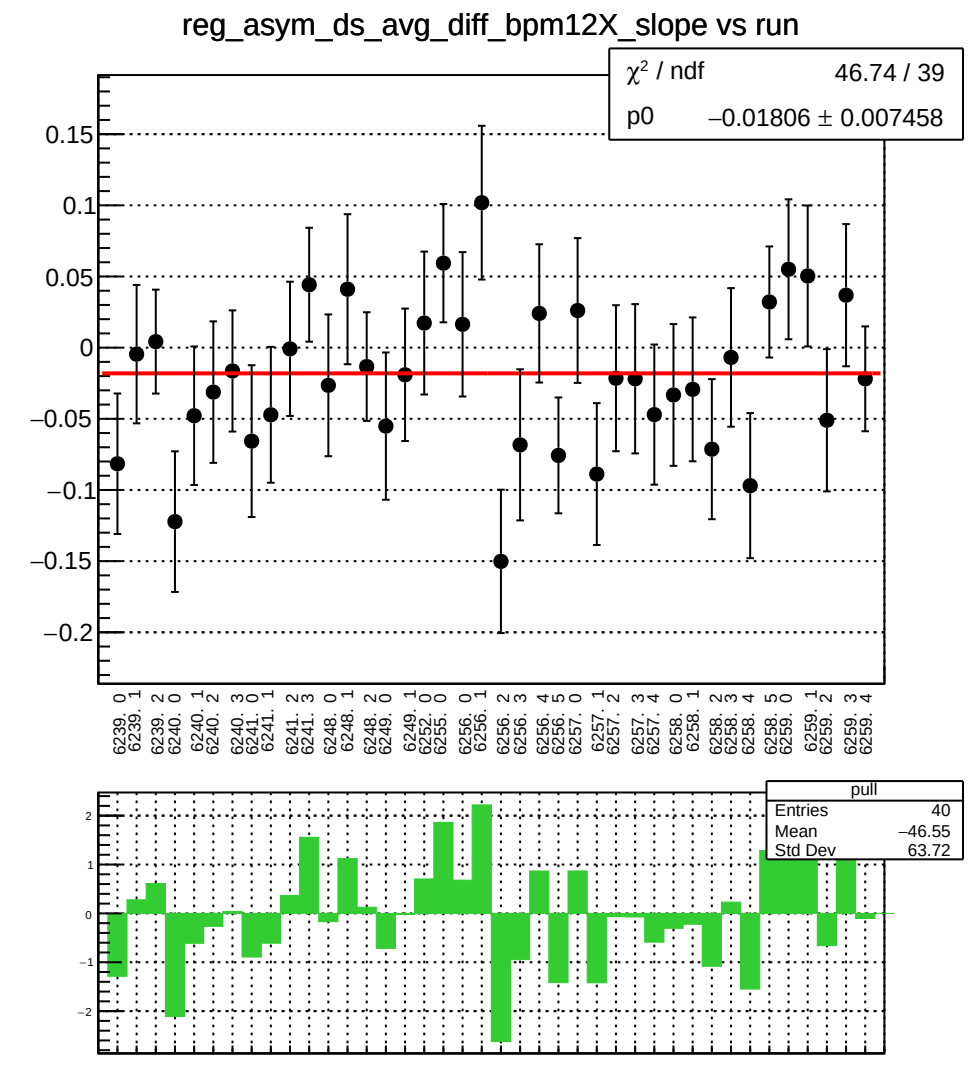

pull1D
Entries 40
Mean 0.03745
Std Dev 1.107

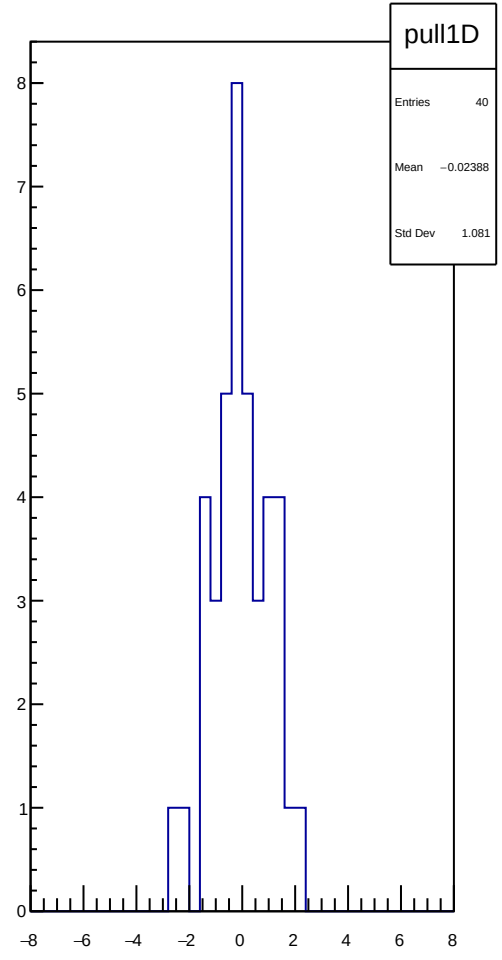

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.69 / 39
p0 −0.02804 ± 0.1568
pull
Entries 40
Mean 106.5
Std Dev 89.27

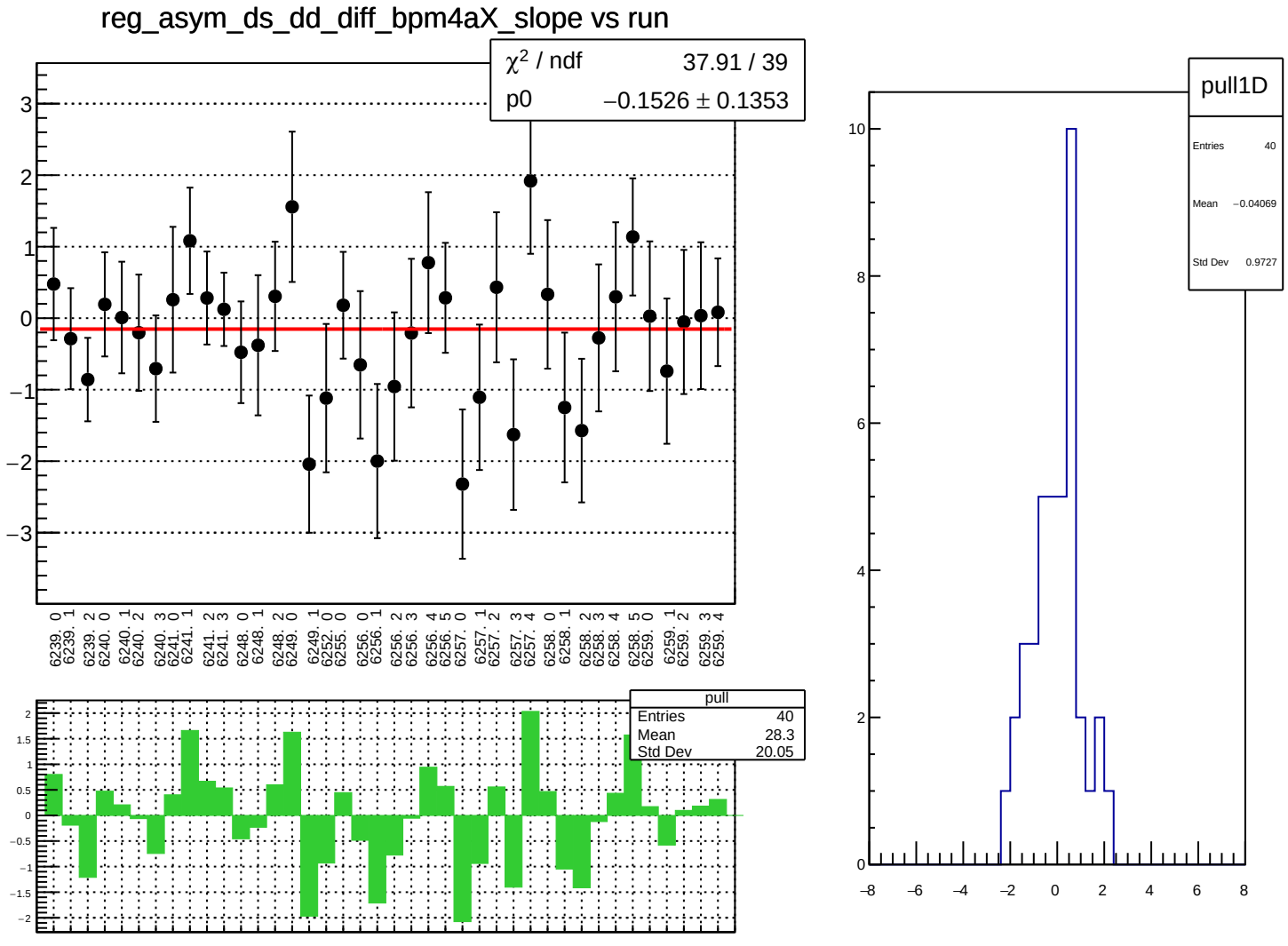

pull1D
Entries 40
Mean −0.01275
Std Dev 0.8468

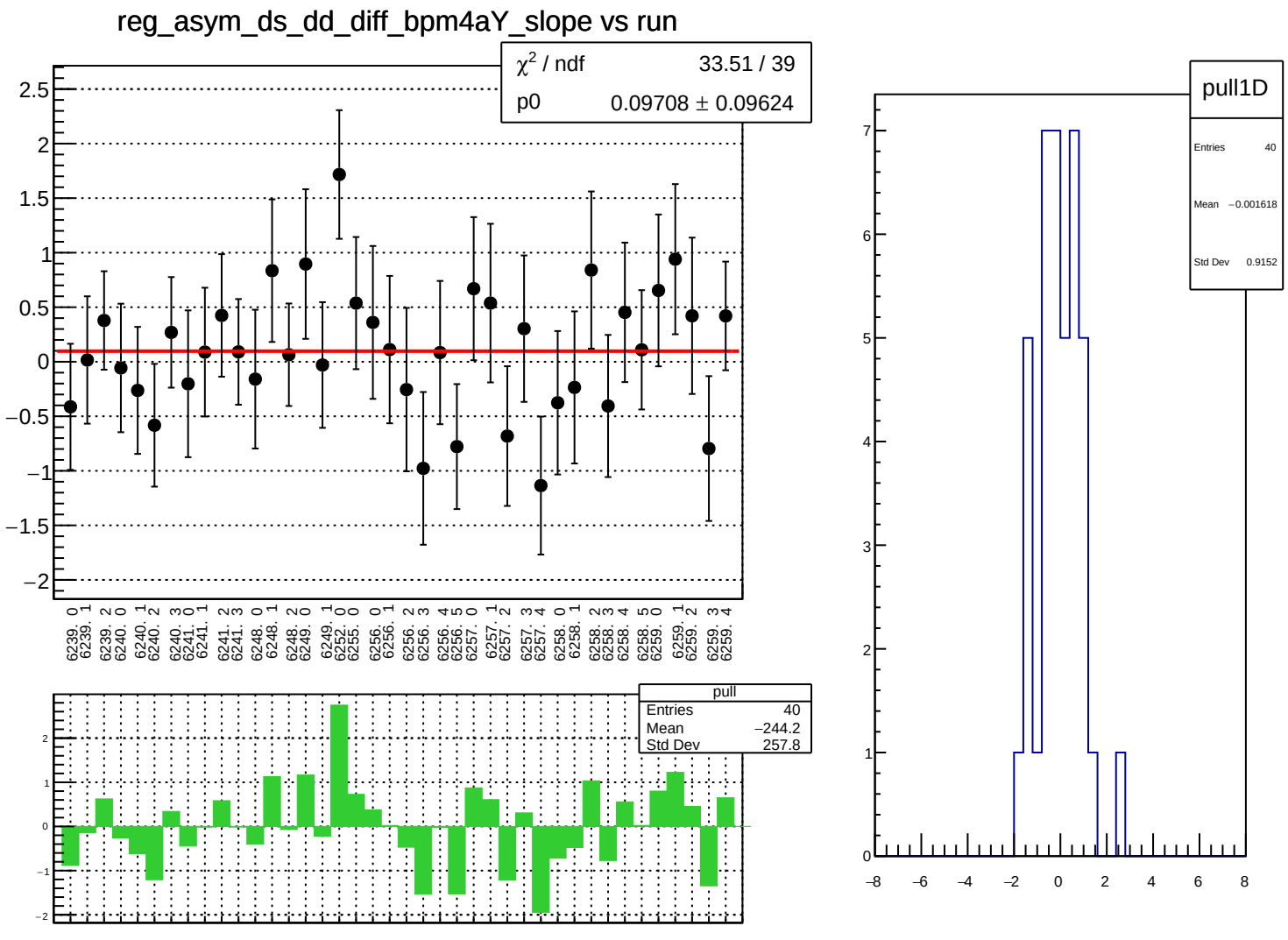

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.89 / 39
p0 0.028 ± 0.1055
pull
Entries 40
Mean 74.25
Std Dev 54.43

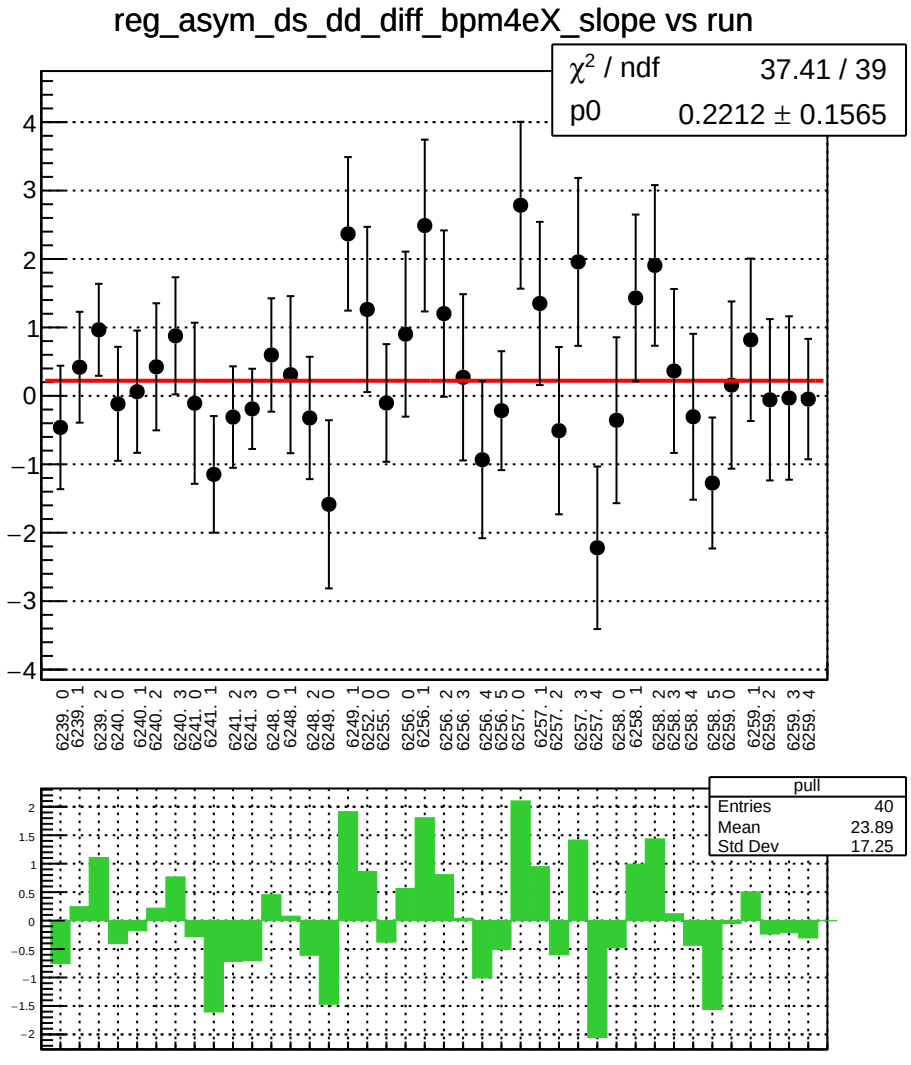

pull1D
Entries 40
Mean −0.03884
Std Dev 1.105

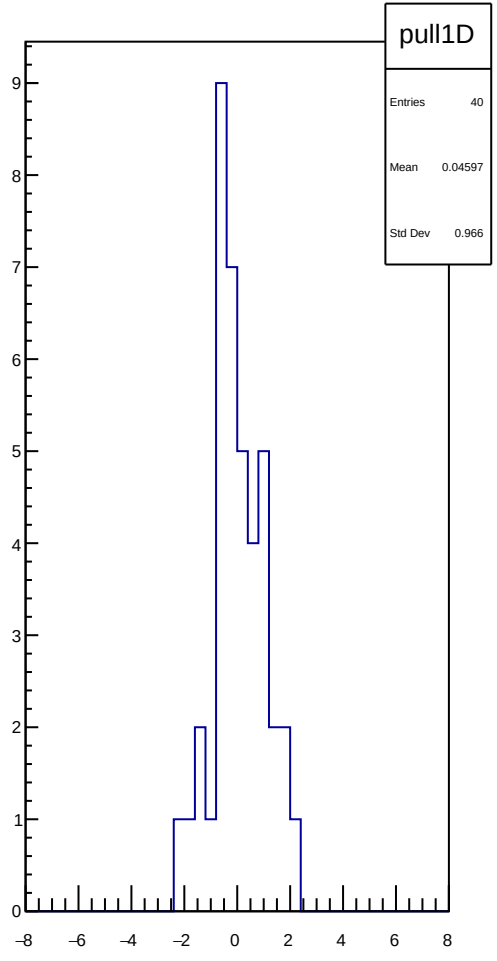

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 46.74 / 39
p0 −0.01806 ± 0.007458
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −46.55
Std Dev 63.72
2
1
0
−1
−2

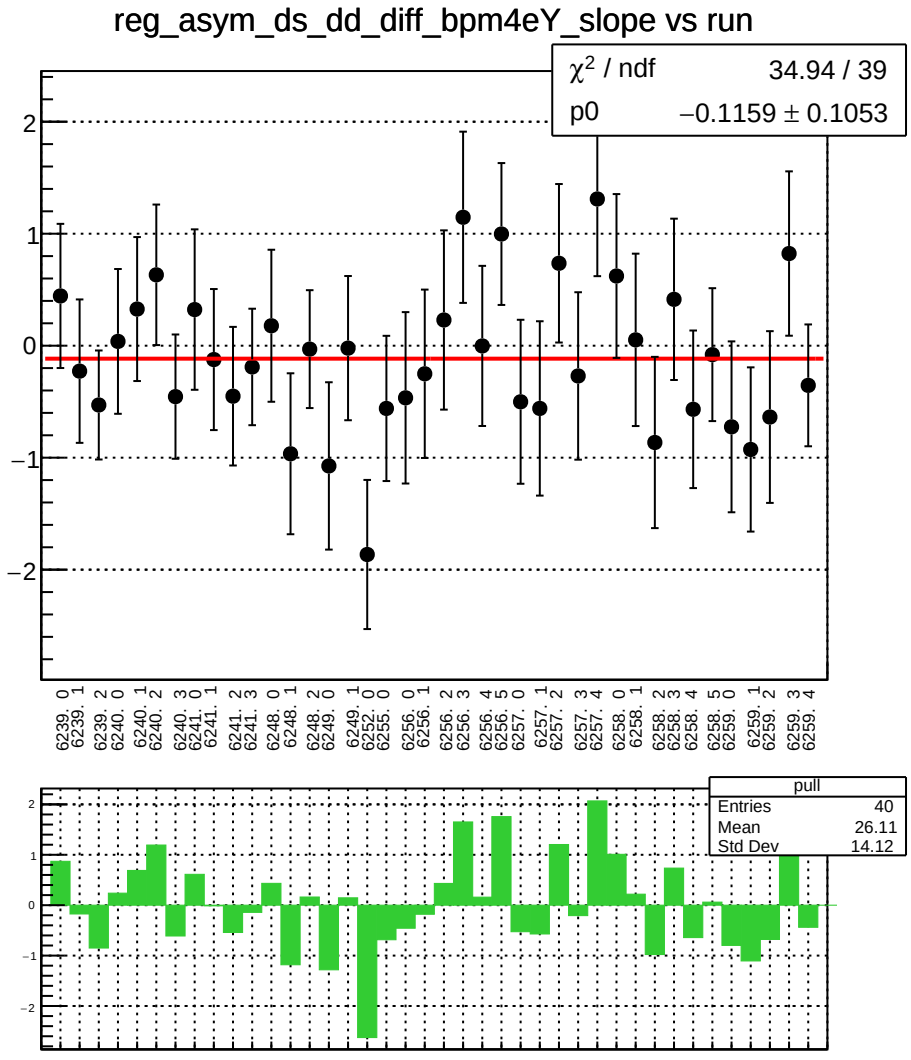

pull1D
Entries 40
Mean −0.02388
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

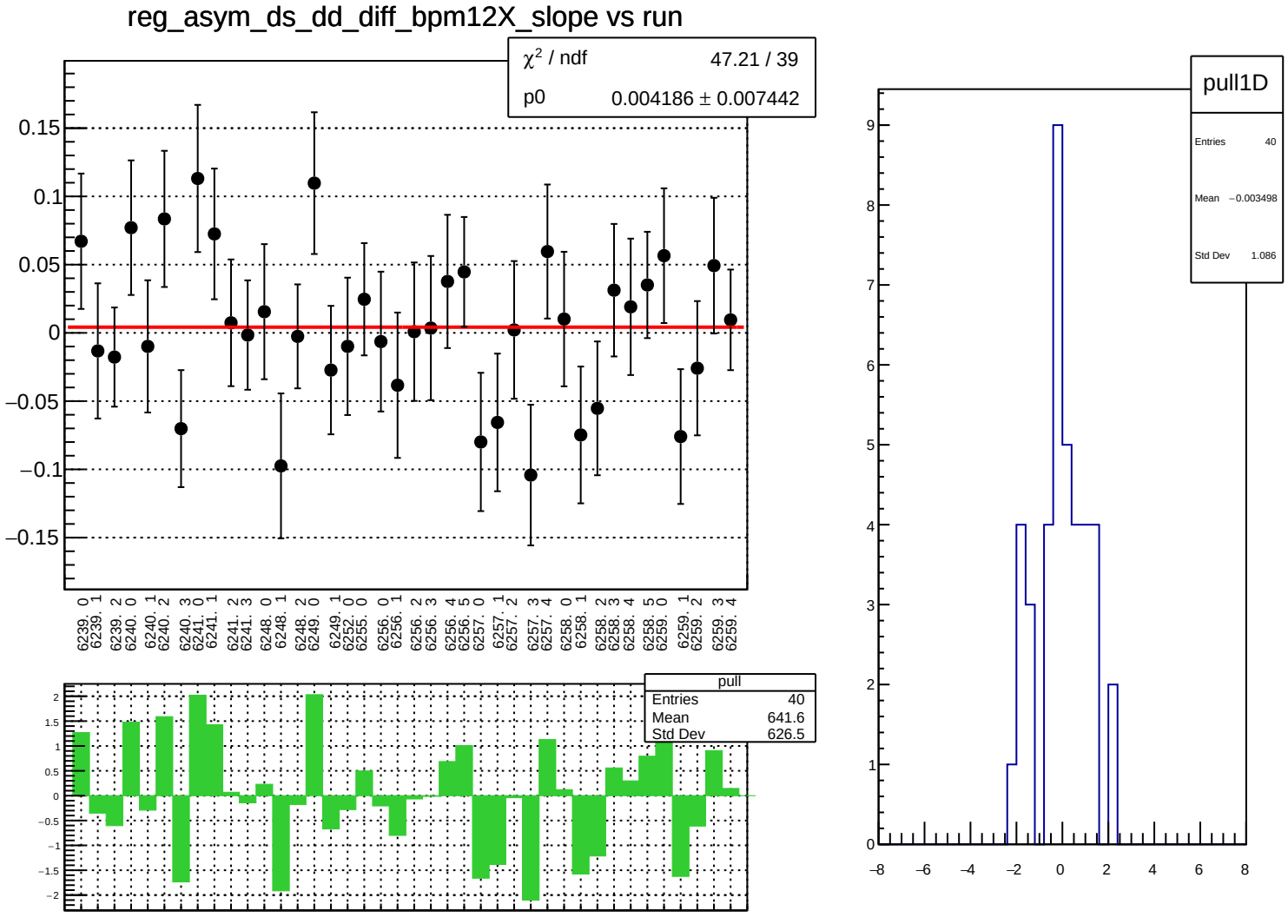

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.91 / 39
p0 −0.1526 ± 0.1353
pull
Entries 40
Mean 28.3
Std Dev 20.05
pull1D
Entries 40
Mean −0.04069
Std Dev 0.9727

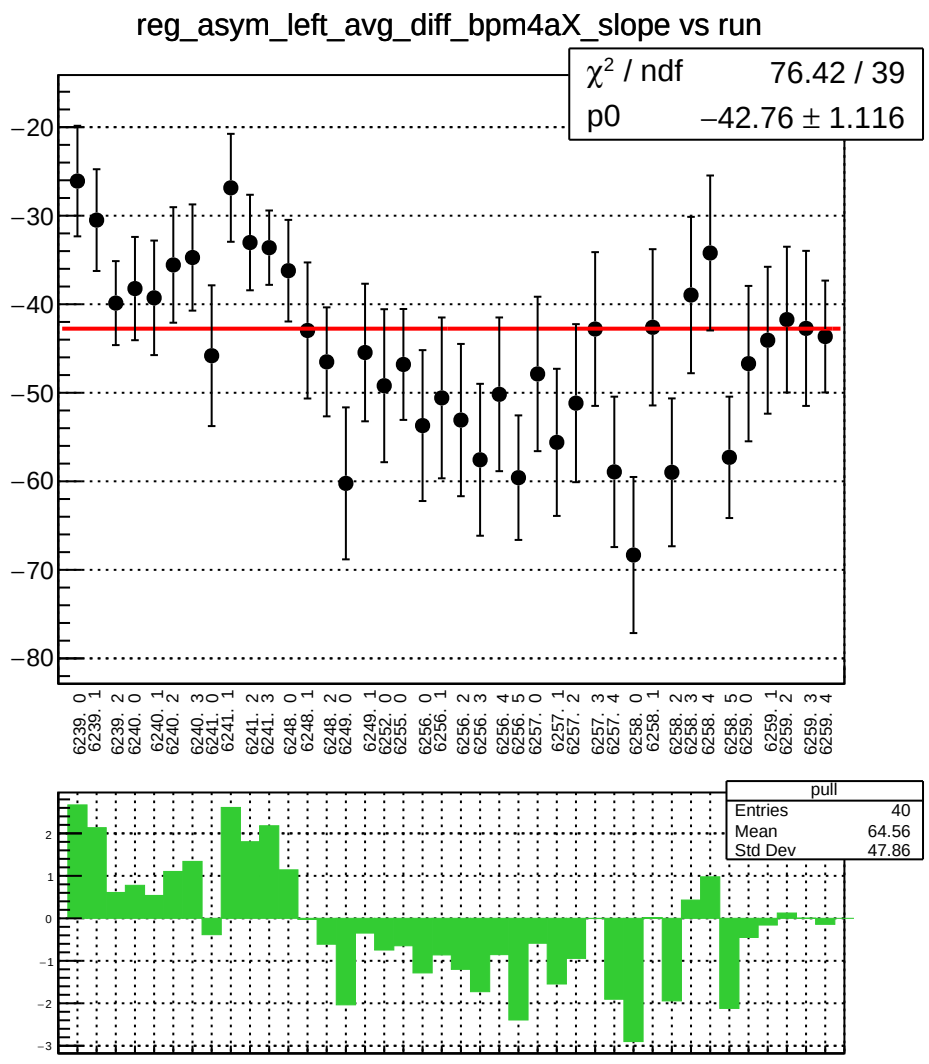

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.51 / 39
p0 0.09708 ± 0.09624
pull
Entries 40
Mean −244.2
Std Dev 257.8
pull1D
Entries 40
Mean −0.001618
Std Dev 0.9152

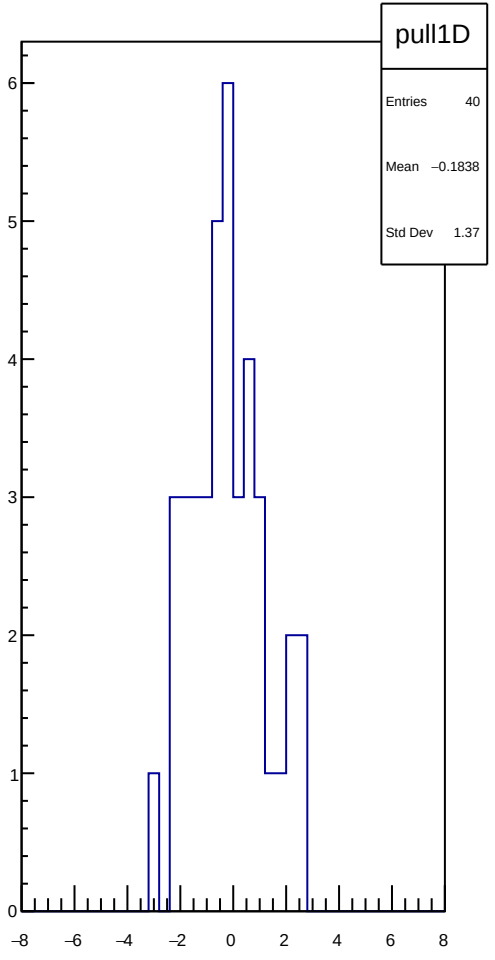

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.41 / 39
p0 0.2212 ± 0.1565
pull
Entries 40
Mean 23.89
Std Dev 17.25

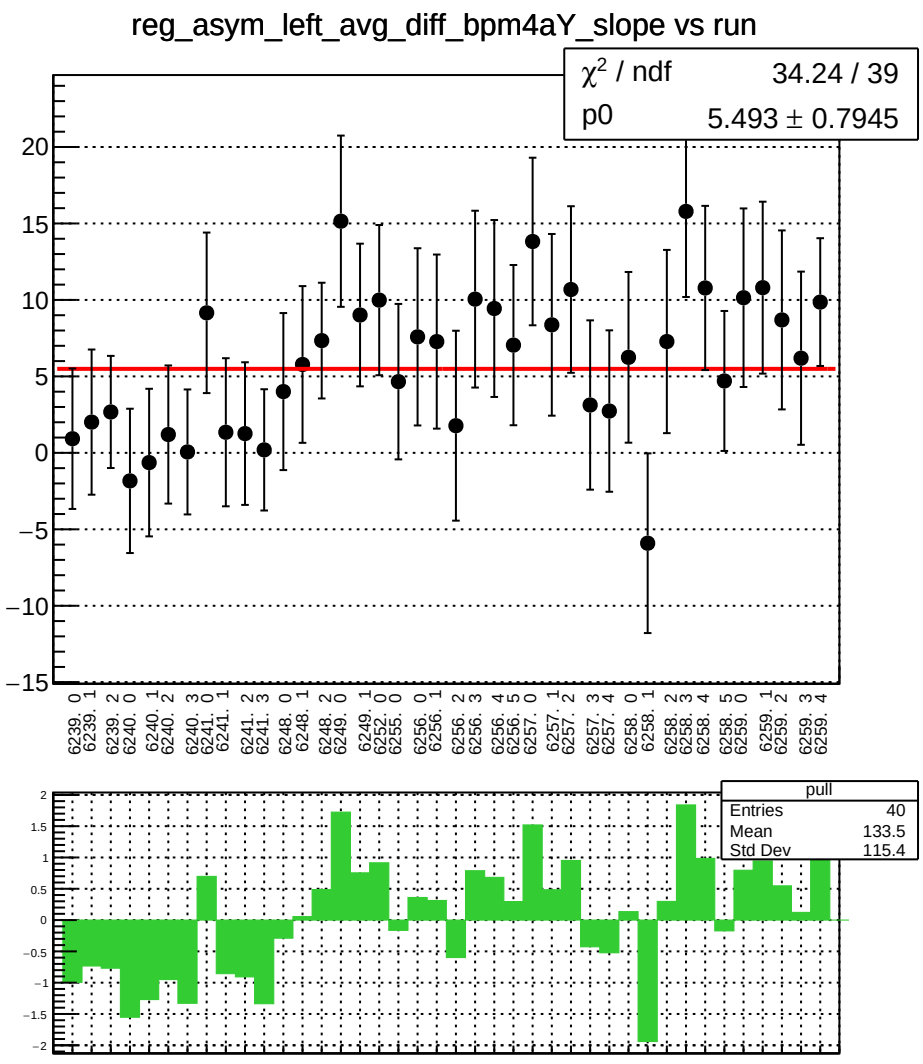

pull1D
Entries 40
Mean 0.04597
Std Dev 0.966

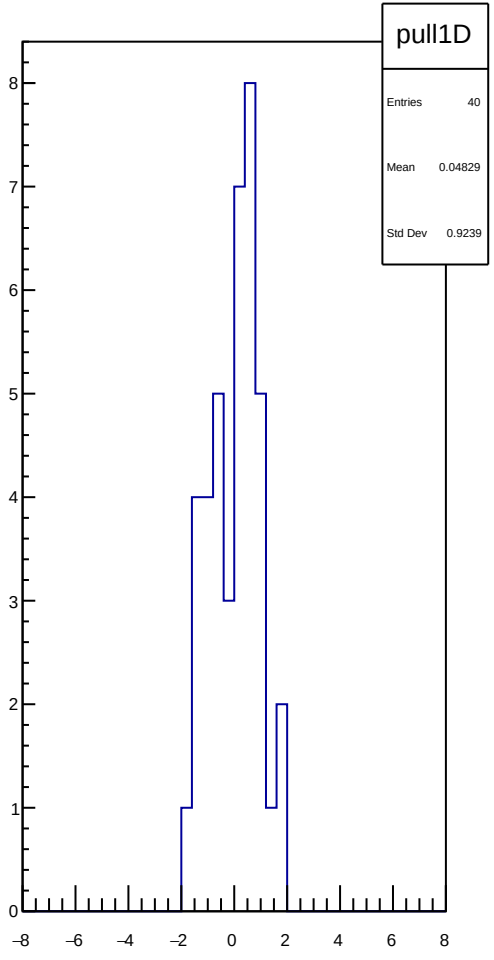

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.94 / 39
p0 −0.1159 ± 0.1053
pull
Entries 40
Mean 26.11
Std Dev 14.12
pull1D
Entries 40
Mean 0.005782
Std Dev 0.9346

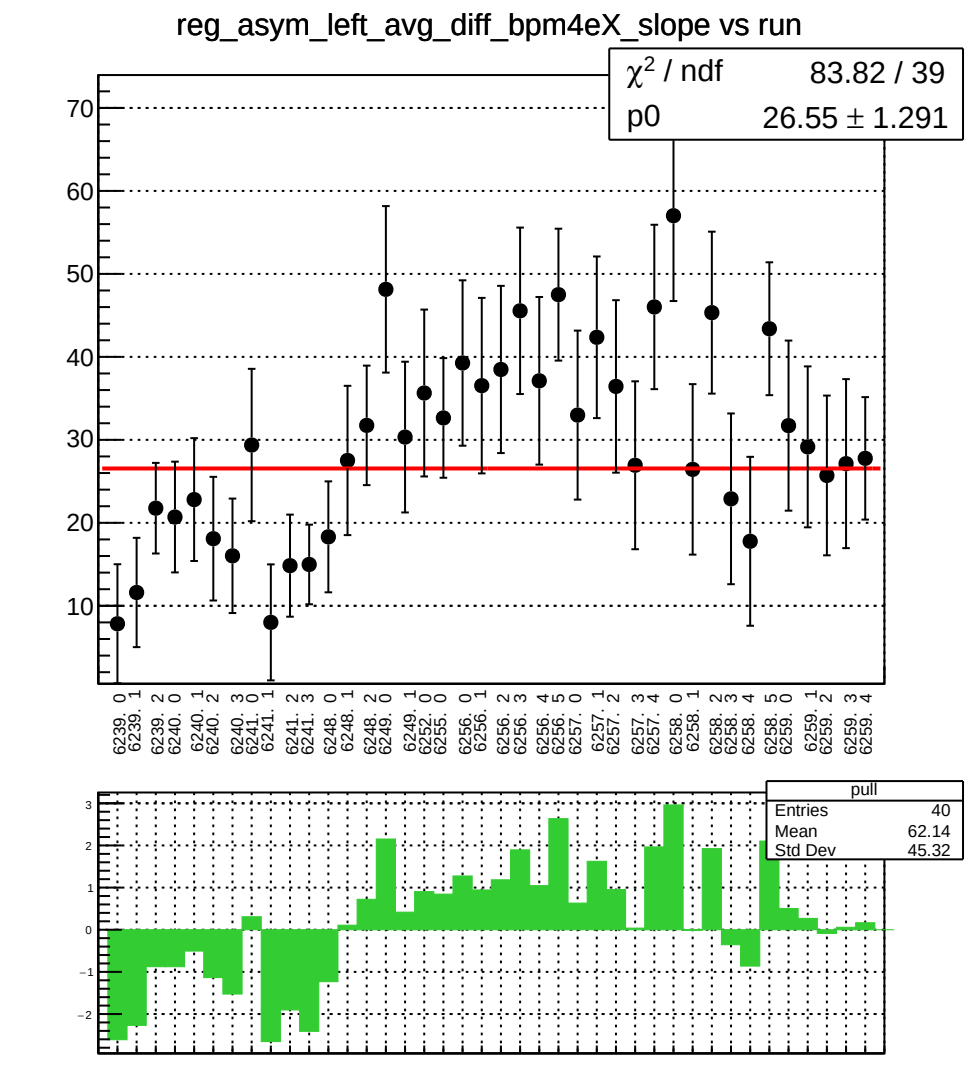

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 47.21 / 39
p0 0.004186 ± 0.007442
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 641.6
Std Dev 626.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean −0.003498
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

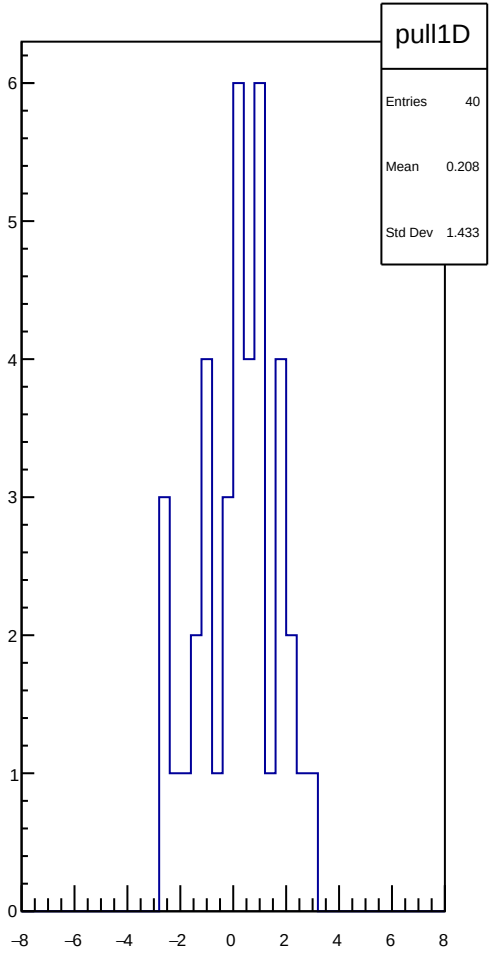

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 76.42 / 39
p0 −42.76 ± 1.116
−20
−30
−40
−50
−60
−70
−80
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 64.56
Std Dev 47.86
2
1
0
−1
−2
−3

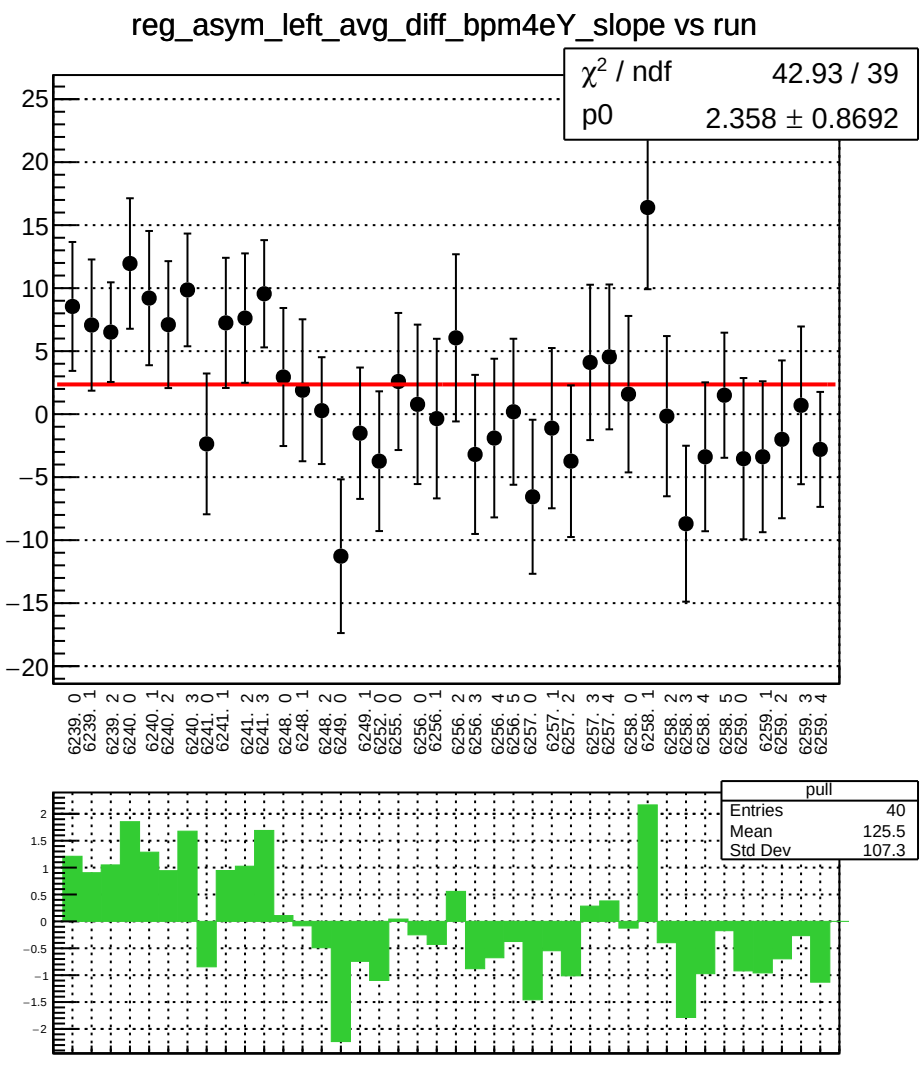

pull1D
Entries 40
Mean −0.1838
Std Dev 1.37
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

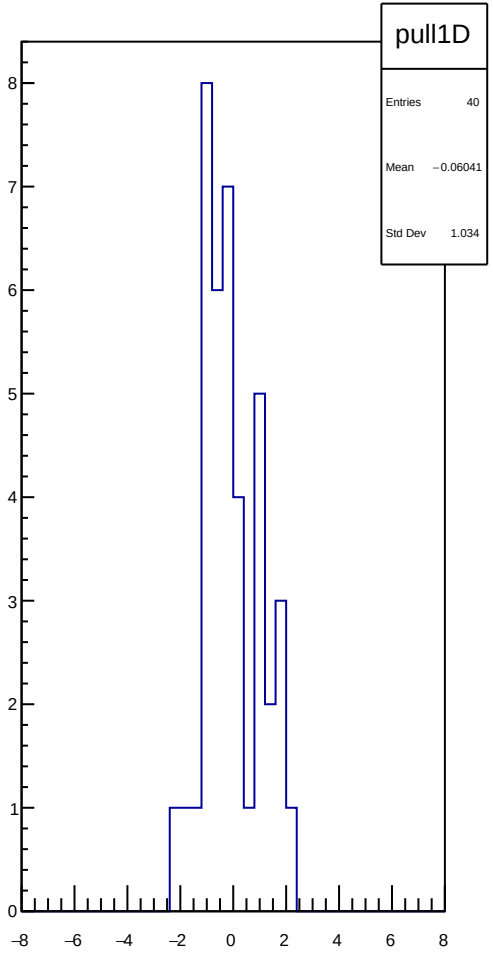

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.24 / 39
p0 5.493 ± 0.7945
pull
Entries 40
Mean 133.5
Std Dev 115.4

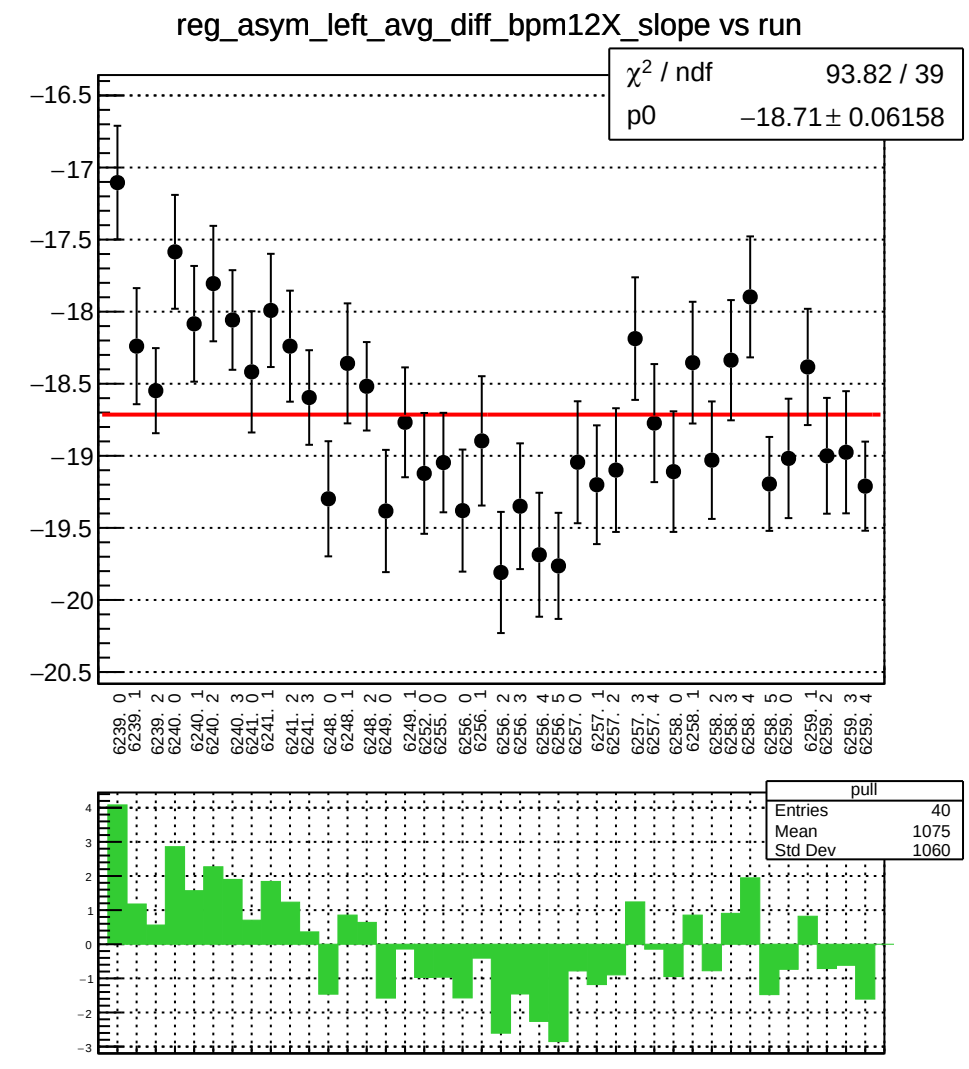

pull1D
Entries 40
Mean 0.04829
Std Dev 0.9239

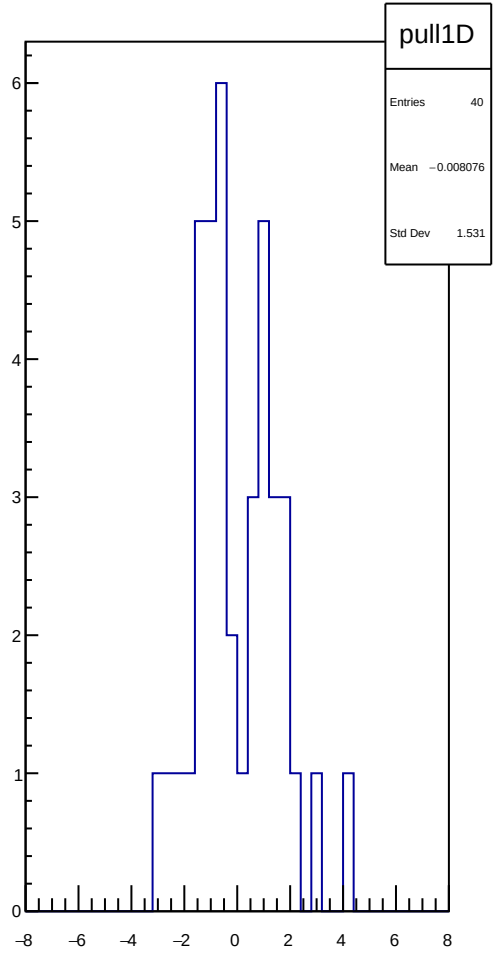

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.82 / 39
p0 26.55 ± 1.291
pull
Entries 40
Mean 62.14
Std Dev 45.32

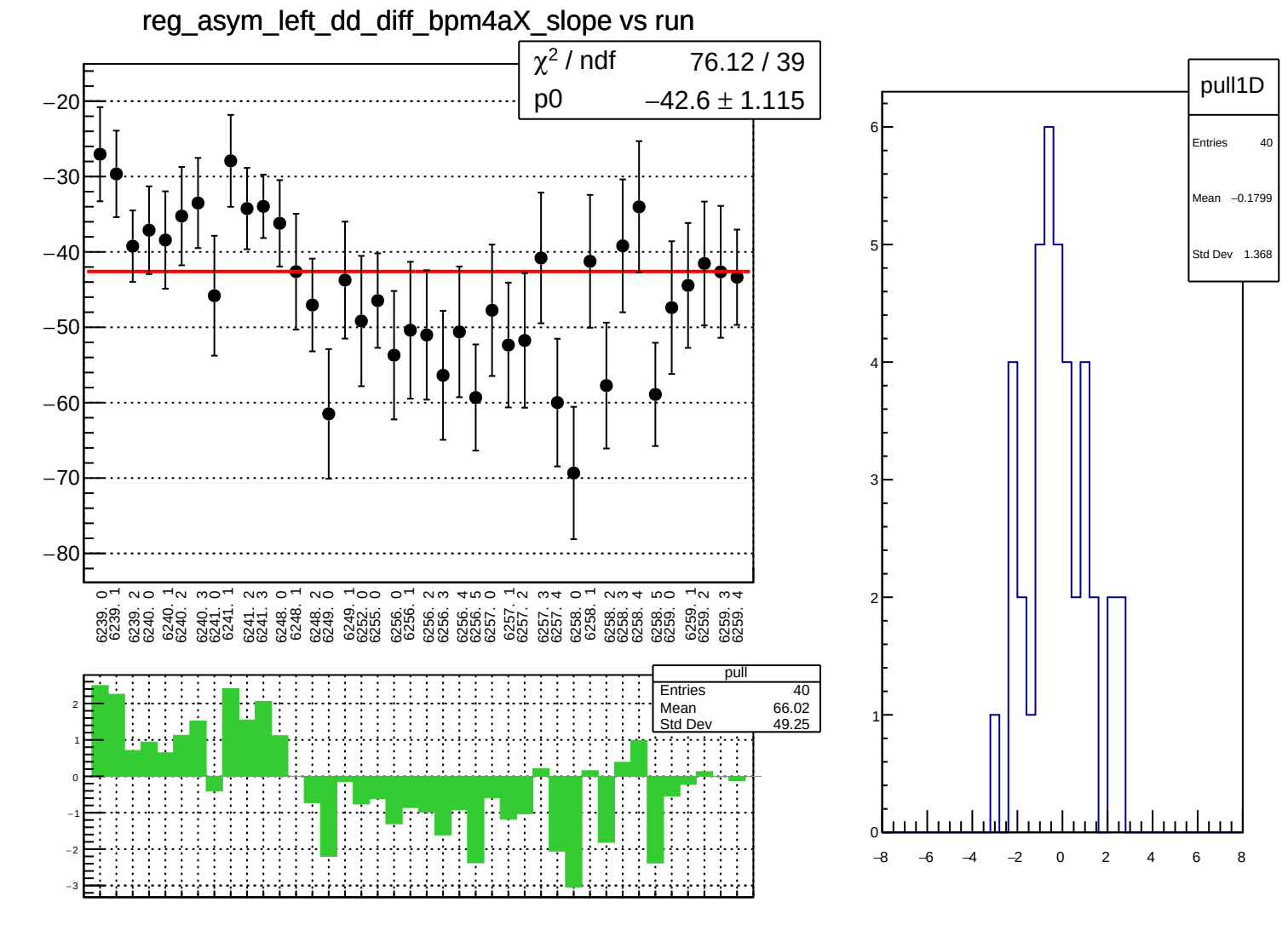

pull1D
Entries 40
Mean 0.208
Std Dev 1.433

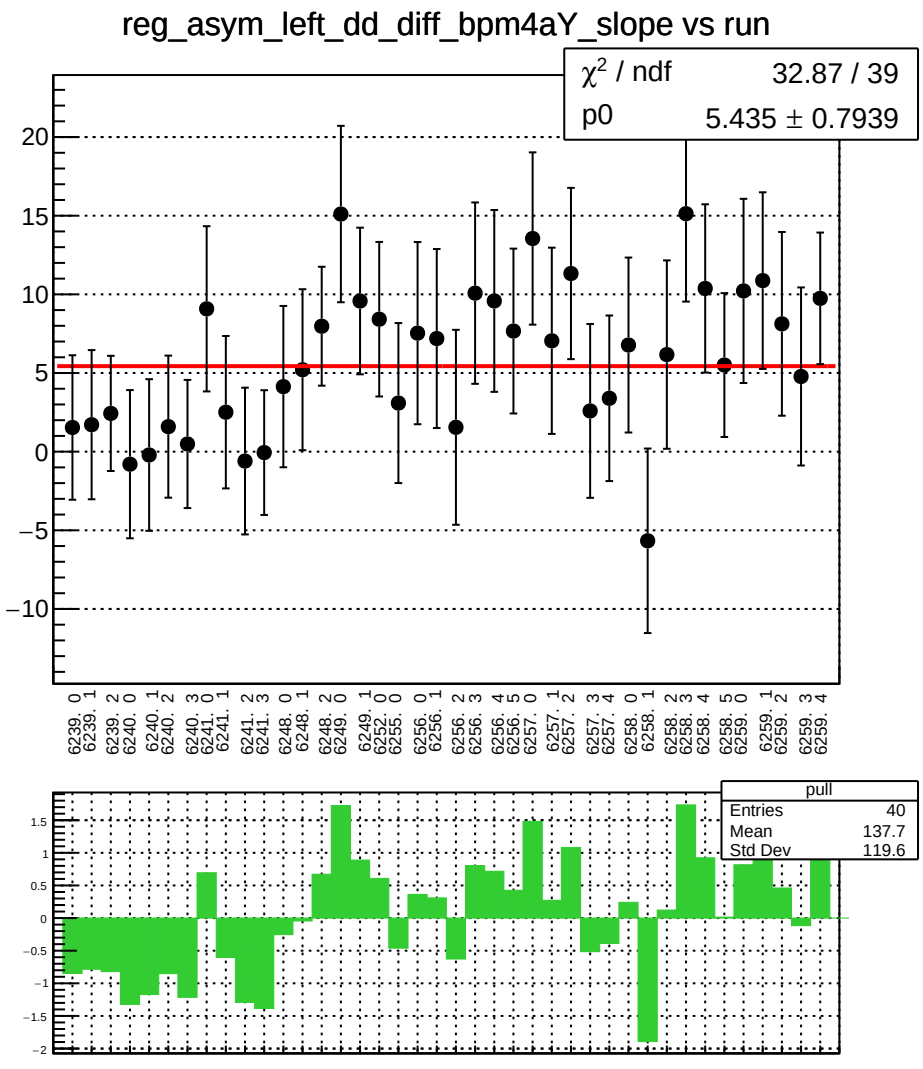

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.93 / 39
p0 2.358 ± 0.8692
pull
Entries 40
Mean 125.5
Std Dev 107.3

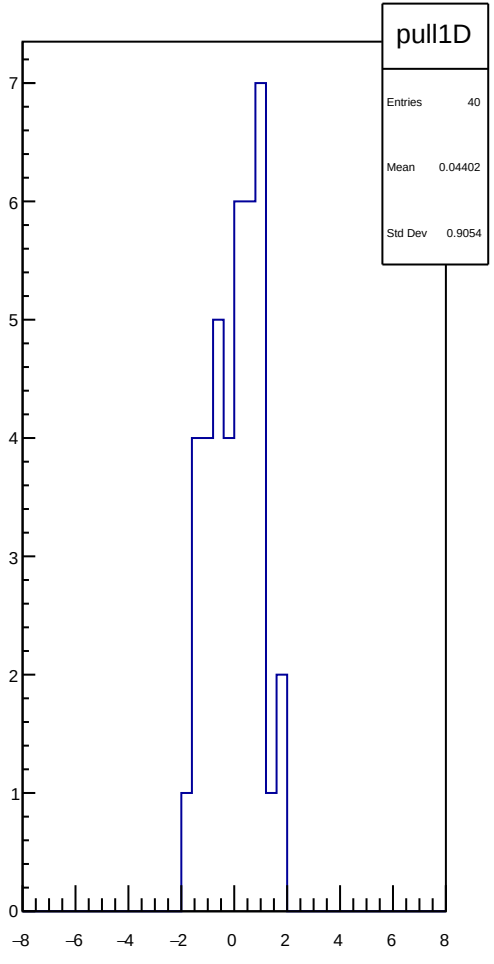

pull1D
Entries 40
Mean −0.06041
Std Dev 1.034

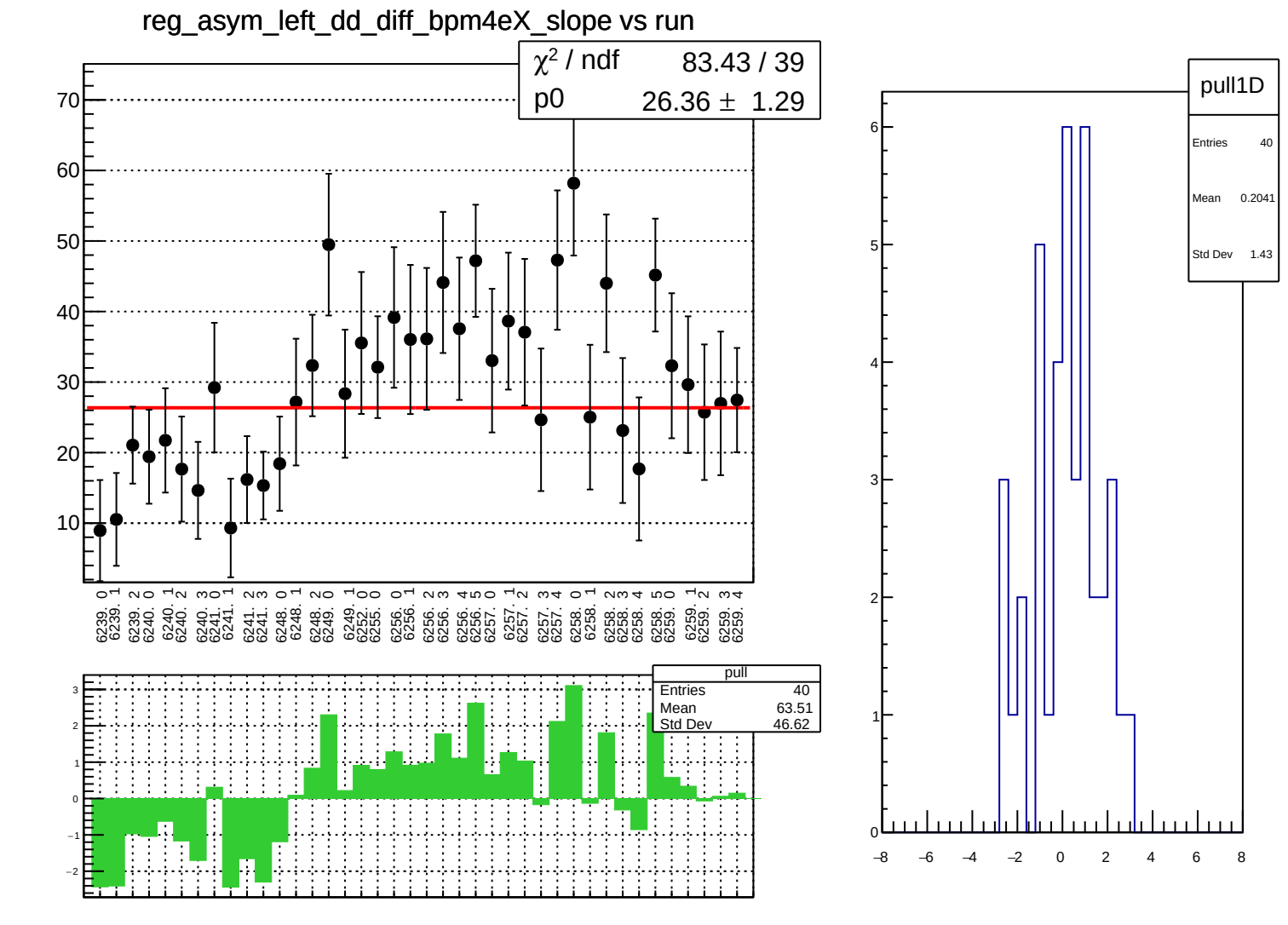

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 93.82 / 39
p0 −18.71 ± 0.06158
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1075
Std Dev 1060
4
3
2
1
0
−1
−2
−3

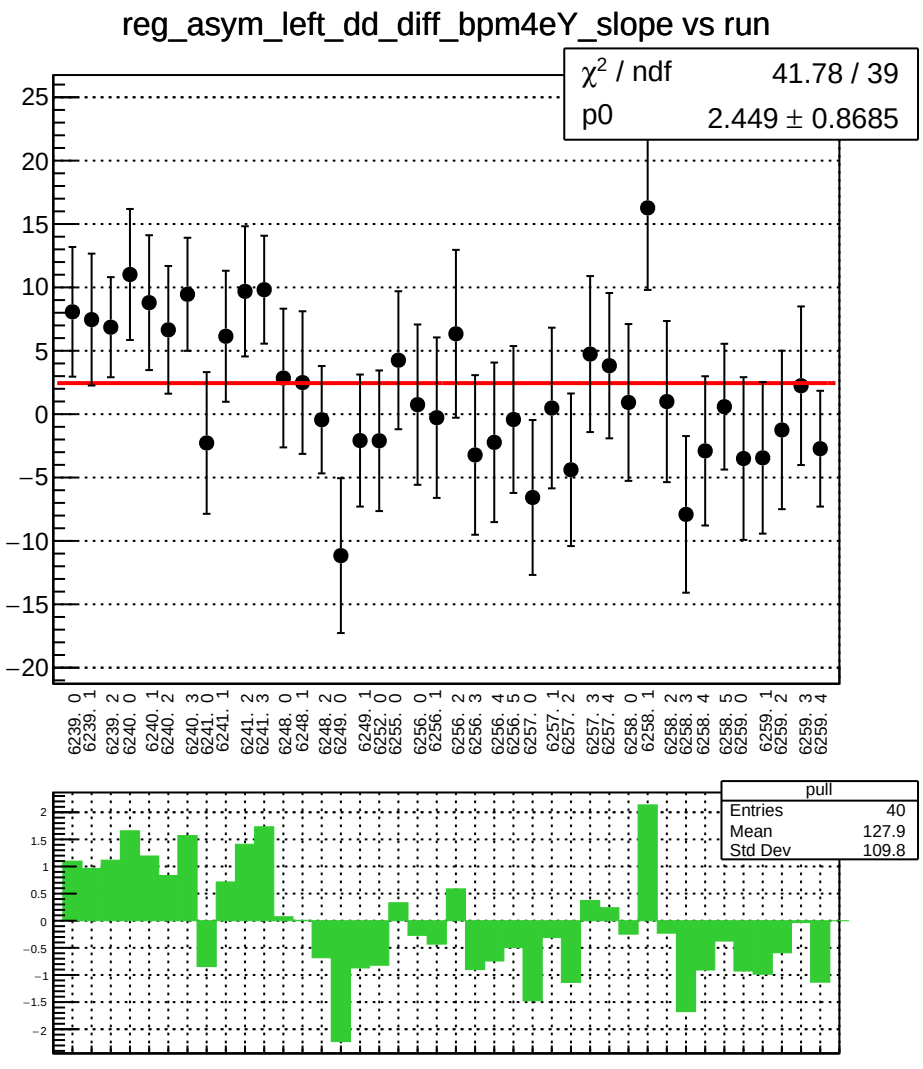

pull1D
Entries 40
Mean −0.008076
Std Dev 1.531
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

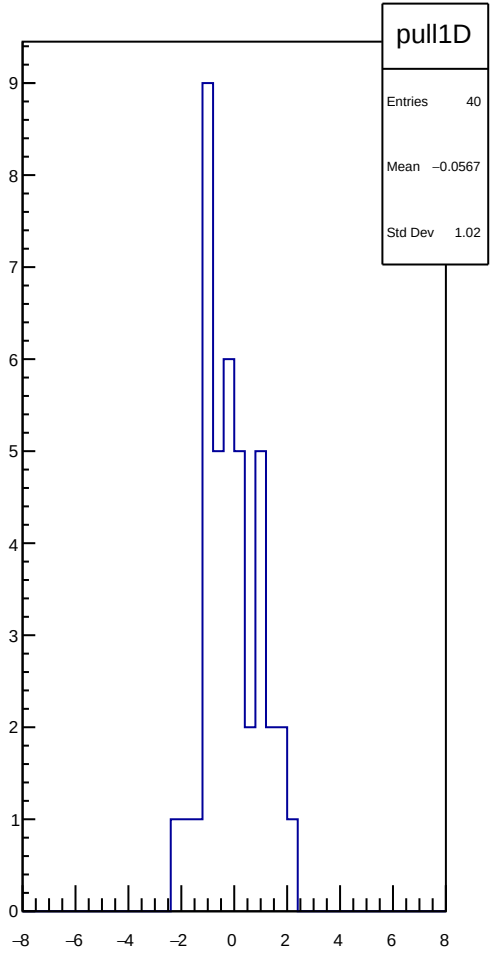

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 76.12 / 39
p0 −42.6 ± 1.115
pull
Entries 40
Mean 66.02
Std Dev 49.25
pull1D
Entries 40
Mean −0.1799
Std Dev 1.368

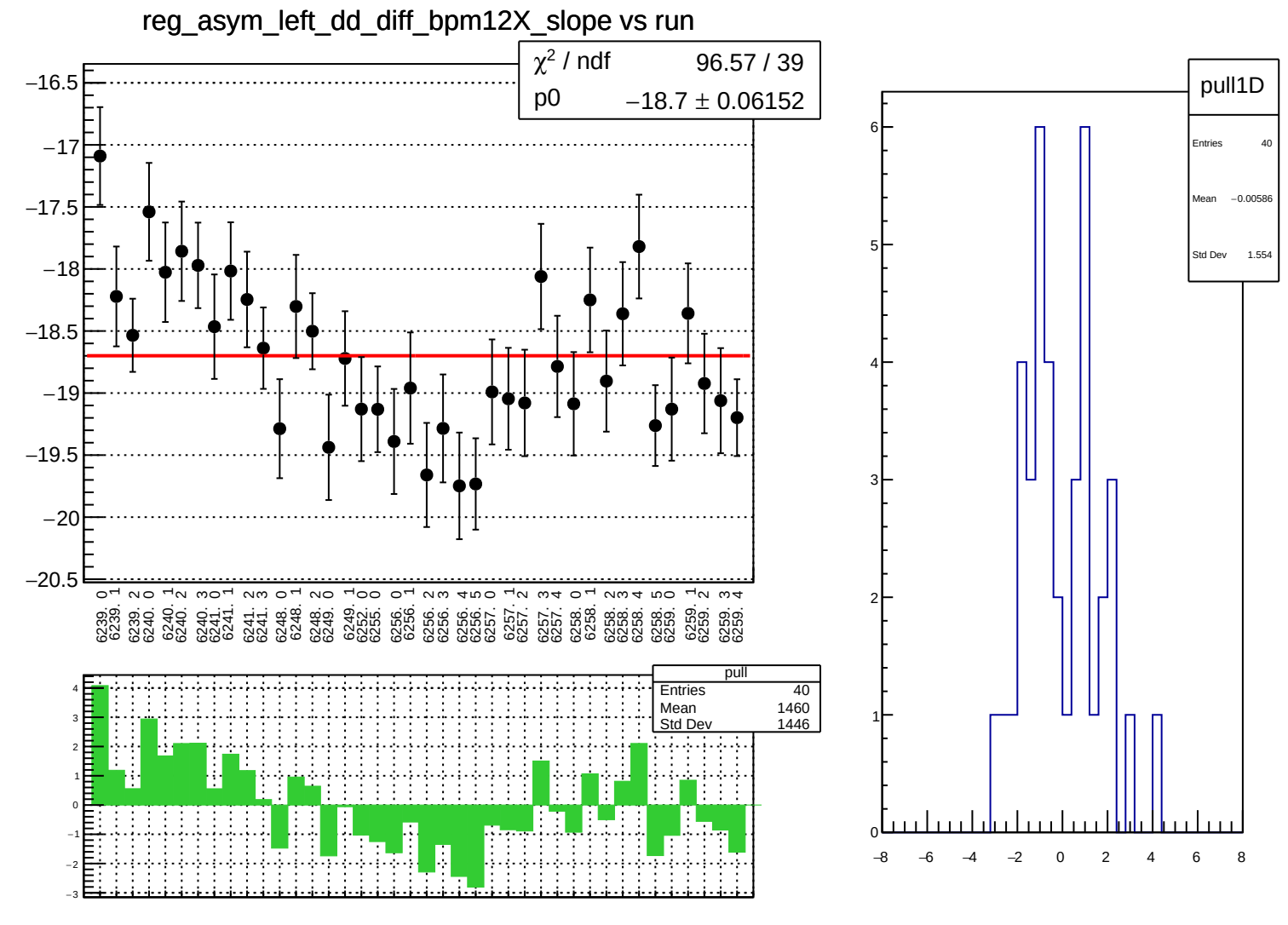

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.87 / 39
p0 5.435 ± 0.7939
pull
Entries 40
Mean 137.7
Std Dev 119.6

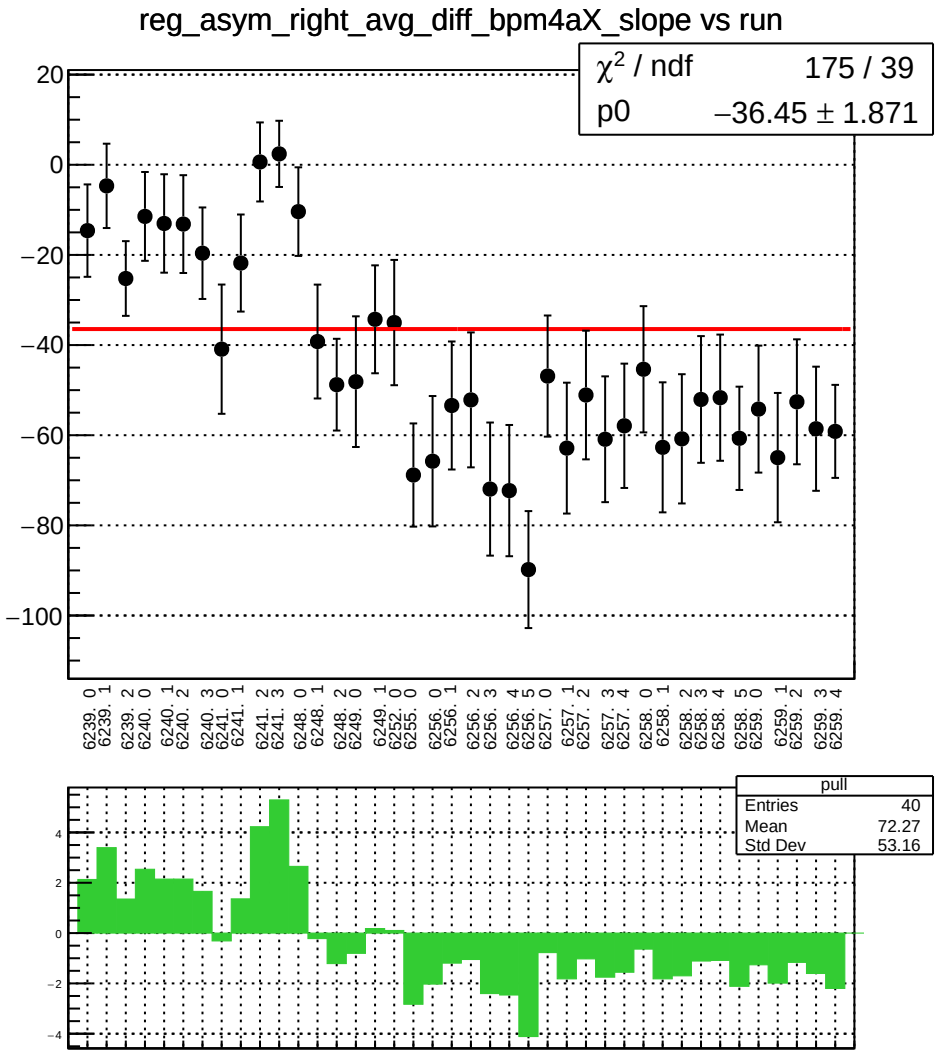

pull1D
Entries 40
Mean 0.04402
Std Dev 0.9054

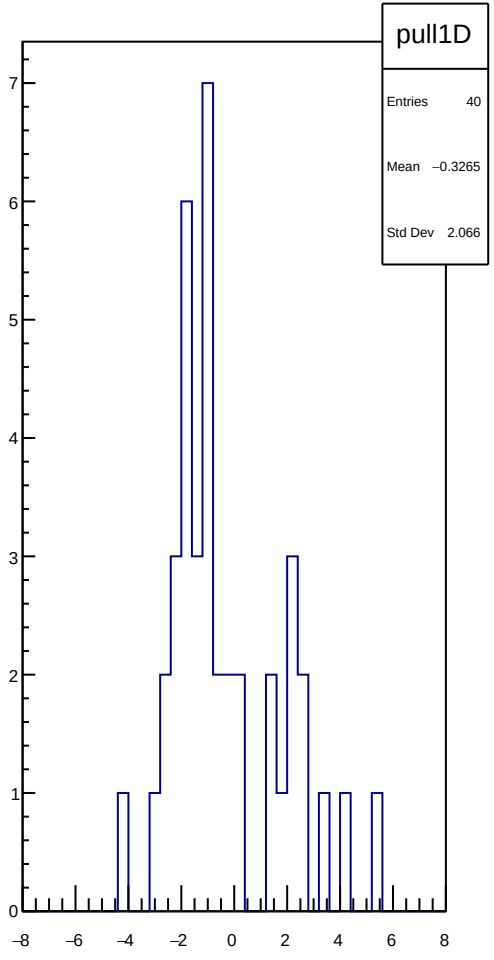

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.43 / 39
p0 26.36 ± 1.29
pull
Entries 40
Mean 63.51
Std Dev 46.62
pull1D
Entries 40
Mean 0.2041
Std Dev 1.43

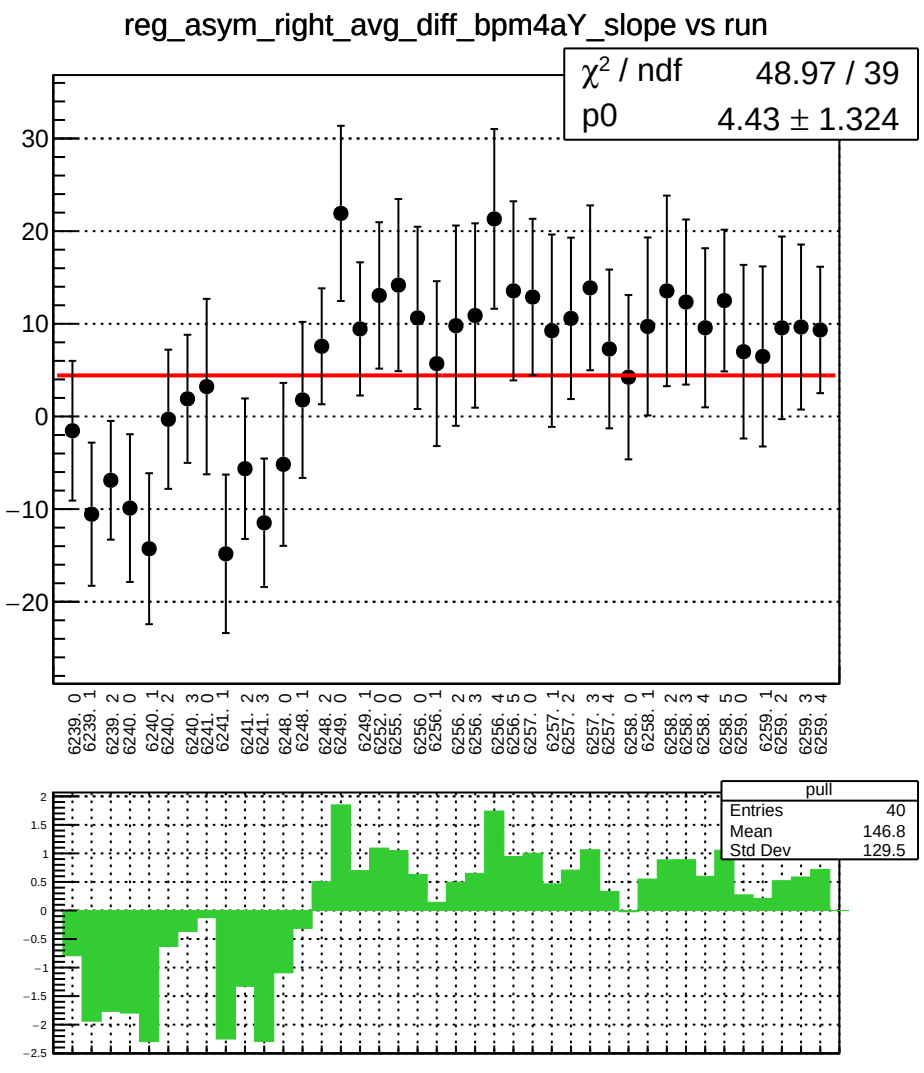

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.78 / 39
p0 2.449 ± 0.8685
pull
Entries 40
Mean 127.9
Std Dev 109.8

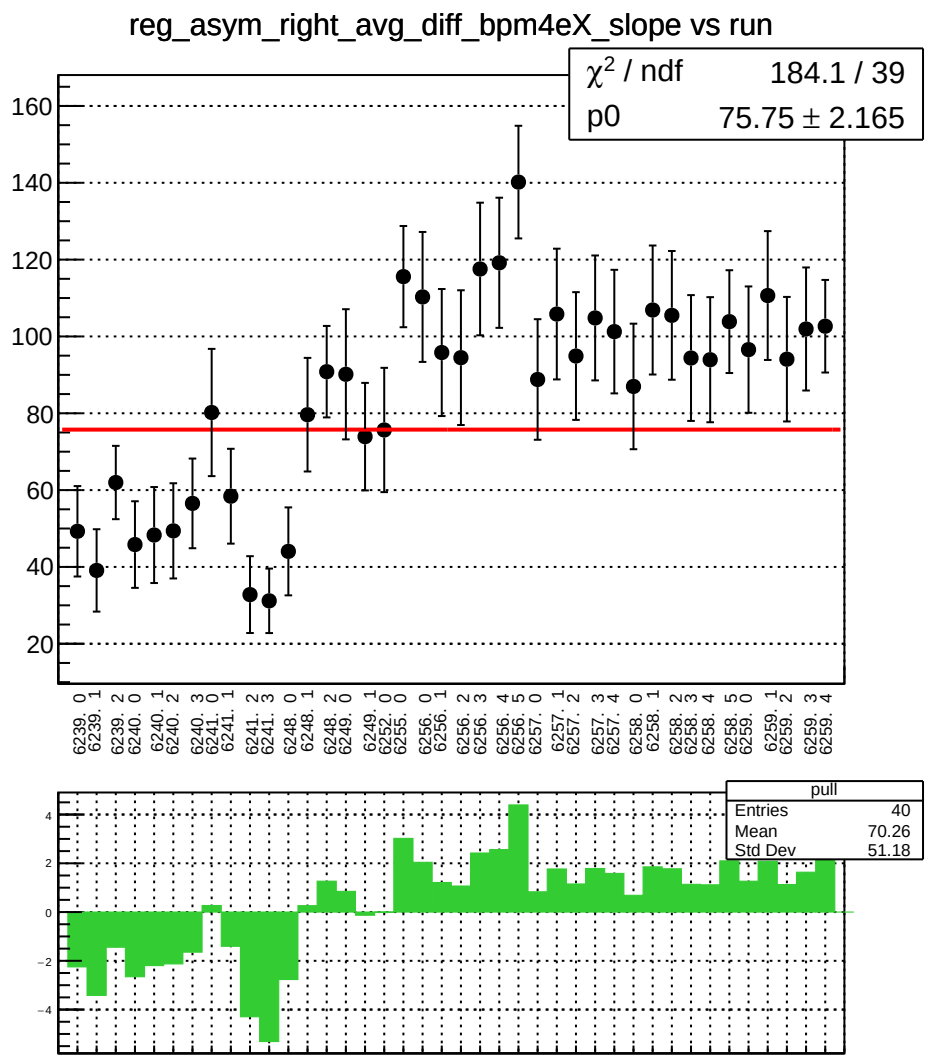

pull1D
Entries 40
Mean −0.0567
Std Dev 1.02

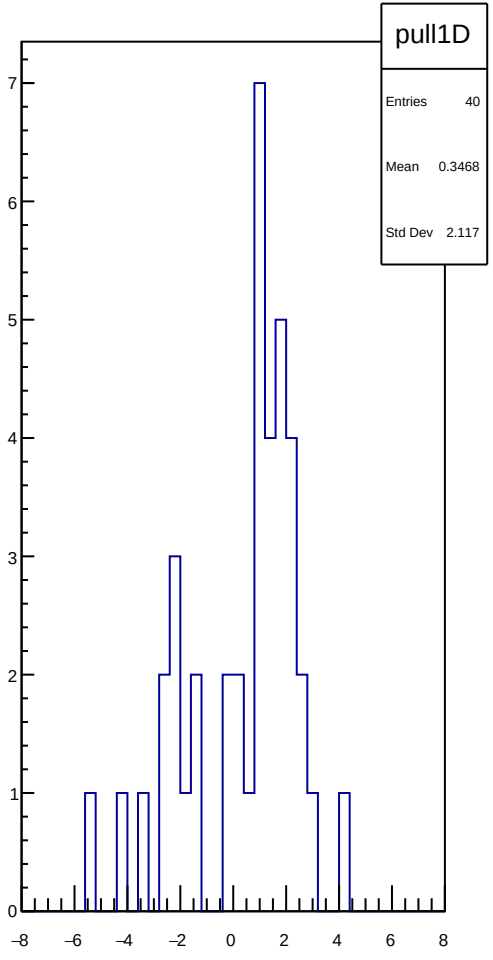

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 96.57 / 39
p0 −18.7 ± 0.06152
pull
Entries 40
Mean 1460
Std Dev 1446
pull1D
Entries 40
Mean −0.00586
Std Dev 1.554

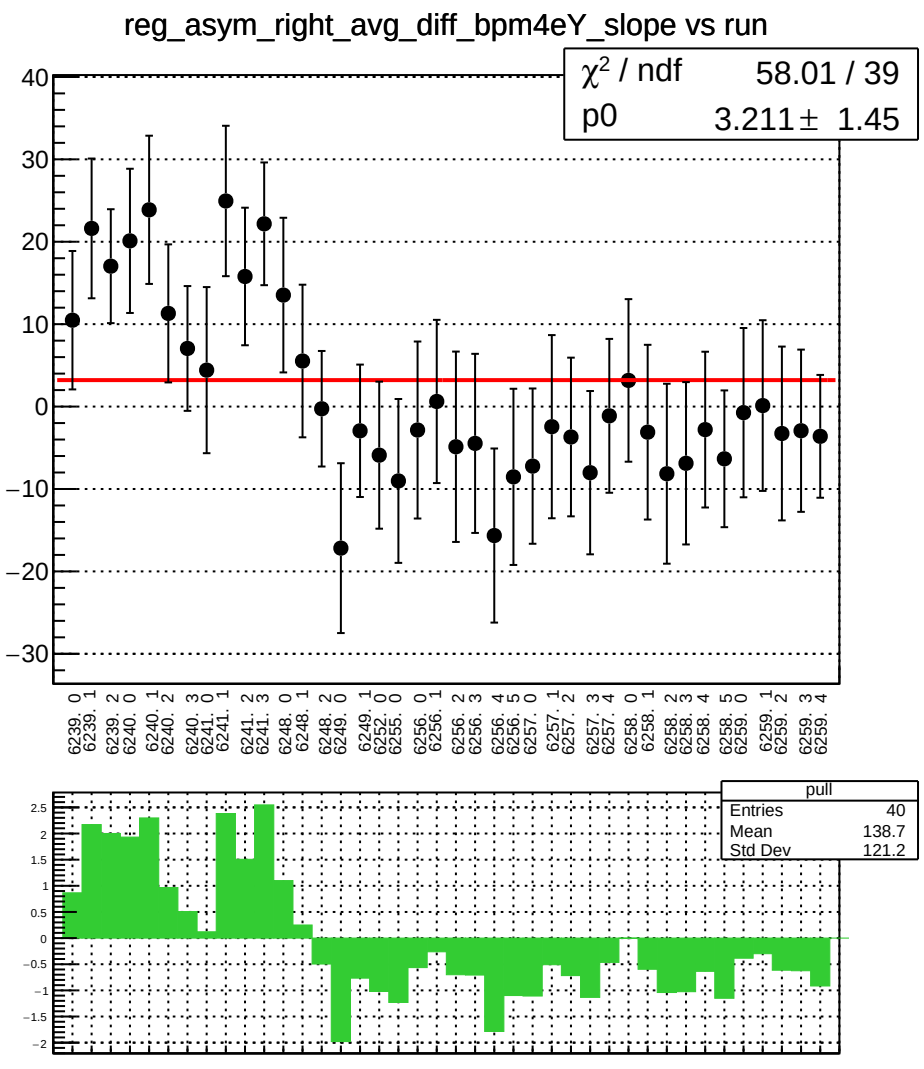

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 175 / 39
p0 −36.45 ± 1.871
pull
Entries 40
Mean 72.27
Std Dev 53.16

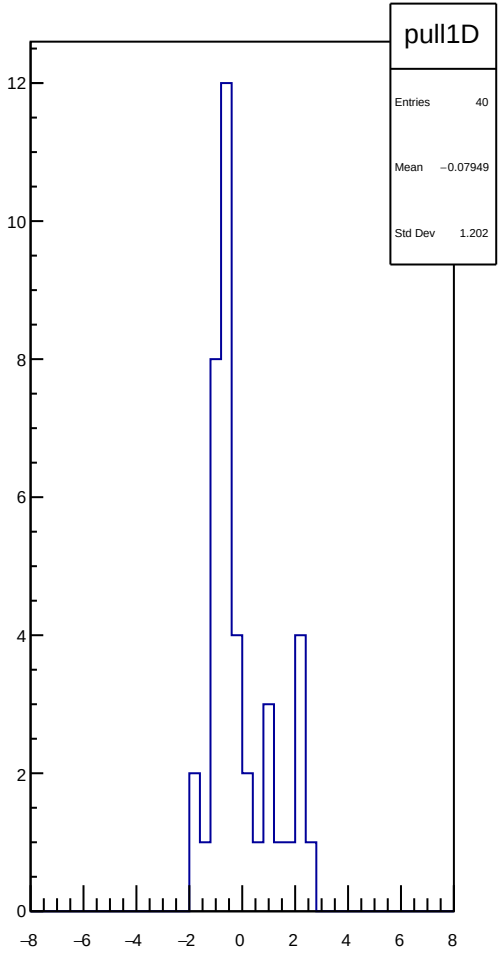

pull1D
Entries 40
Mean −0.3265
Std Dev 2.066

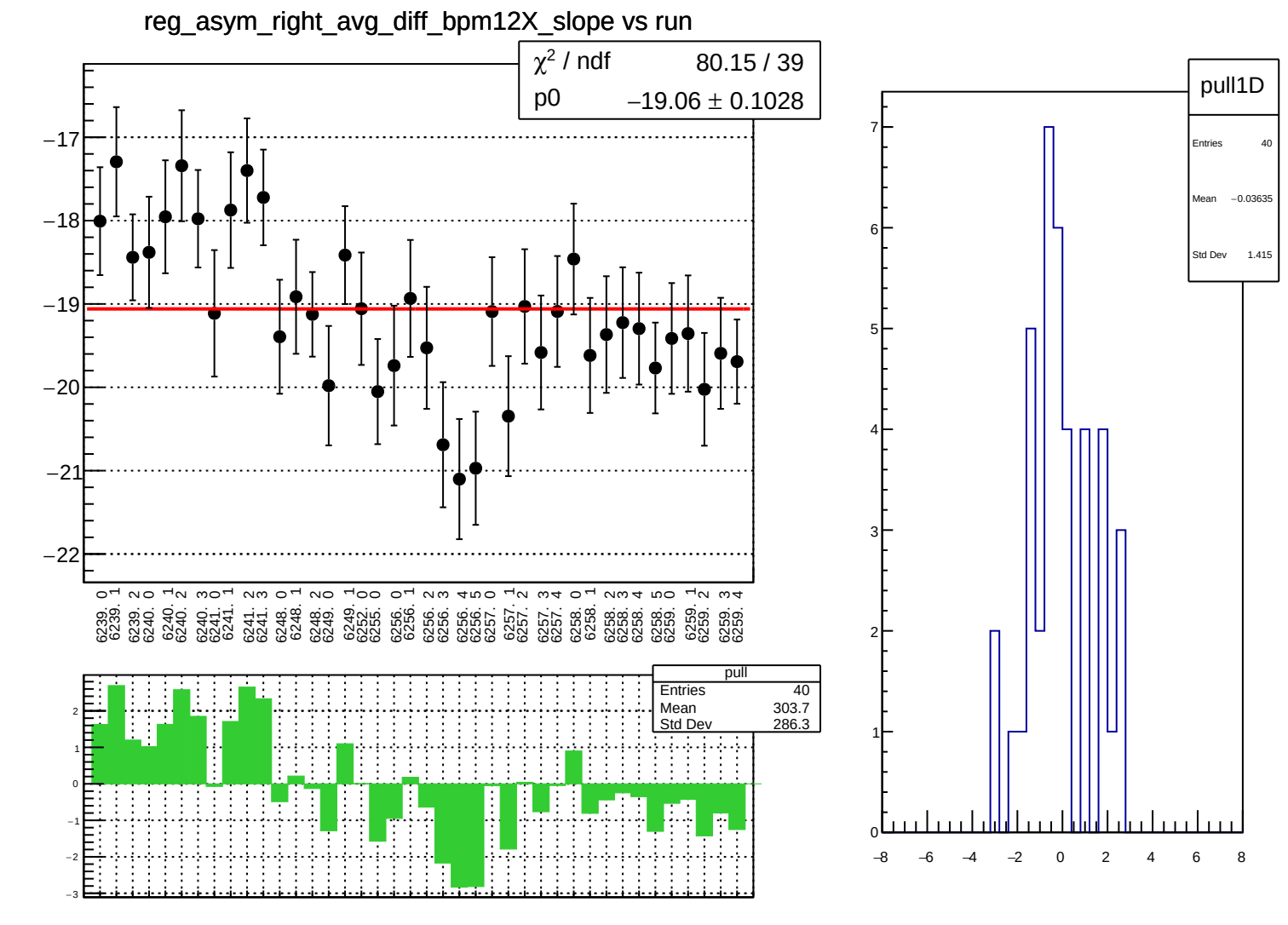

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.97 / 39
p0 4.43 ± 1.324
30
20
10
0
−10
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 146.8
Std Dev 129.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.06619
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

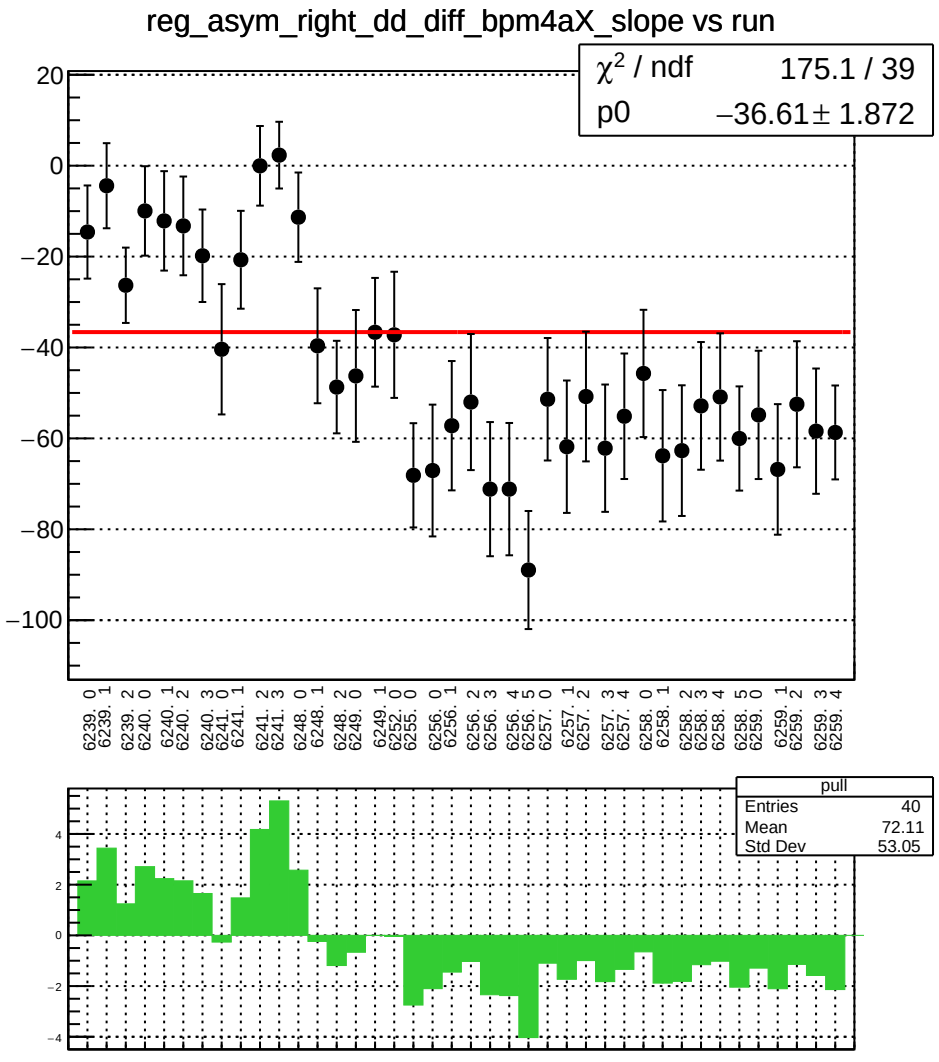

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 184.1 / 39
p0 75.75 ± 2.165
pull
Entries 40
Mean 70.26
Std Dev 51.18

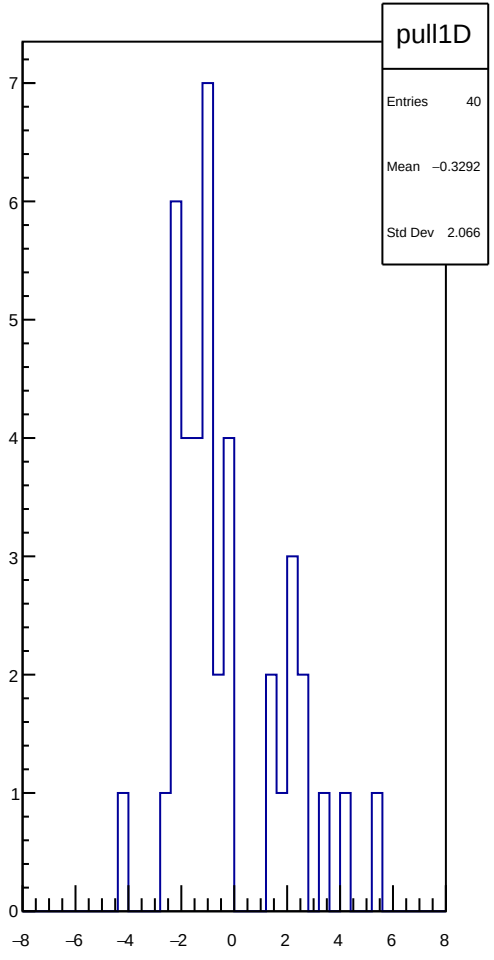

pull1D
Entries 40
Mean 0.3468
Std Dev 2.117

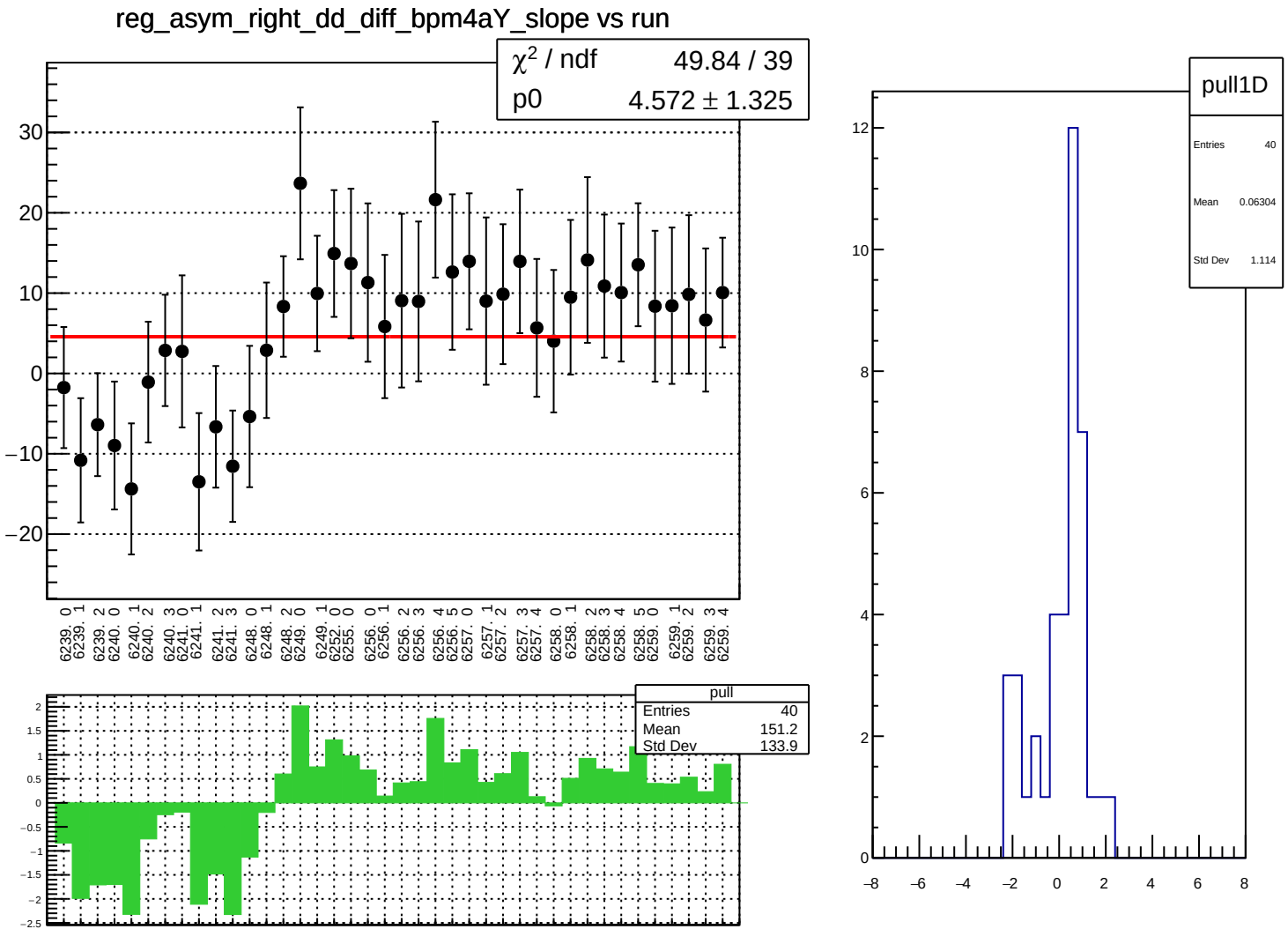

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.01 / 39
p0 3.211 ± 1.45
pull
Entries 40
Mean 138.7
Std Dev 121.2

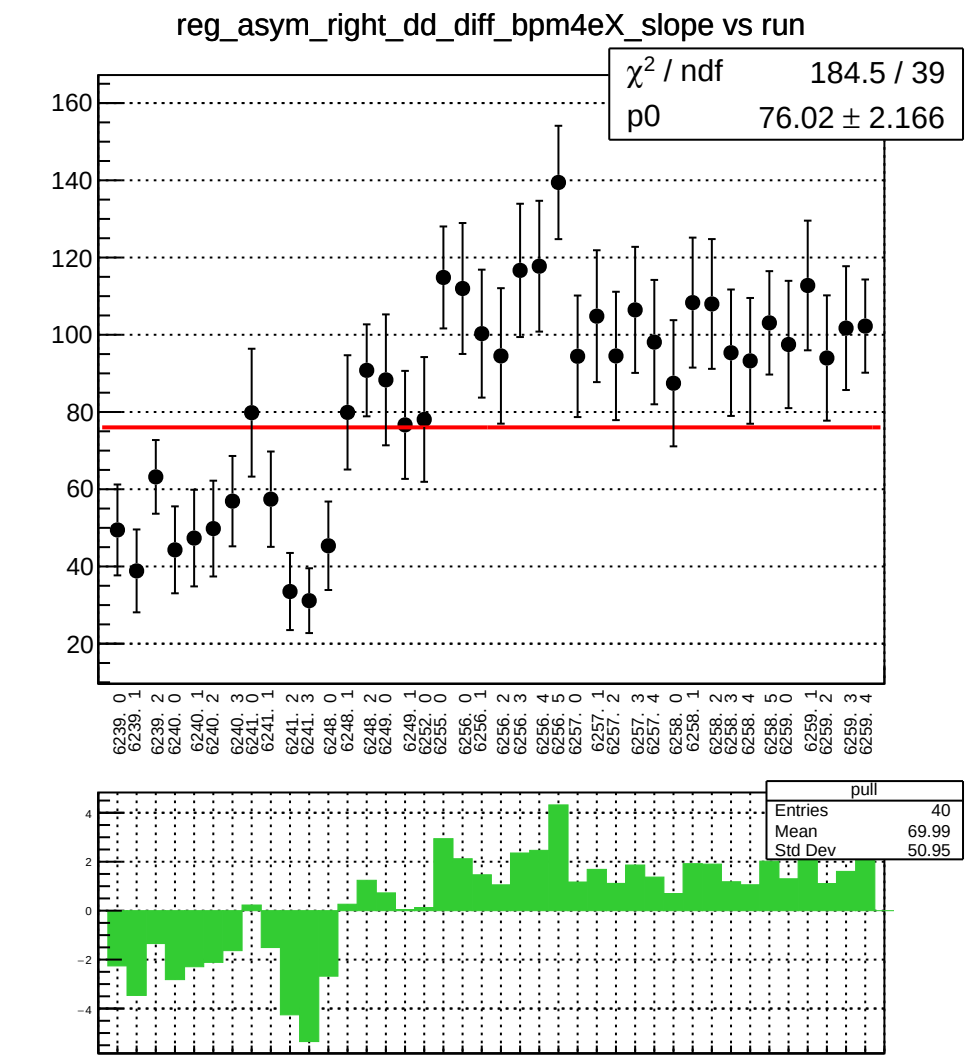

pull1D
Entries 40
Mean −0.07949
Std Dev 1.202

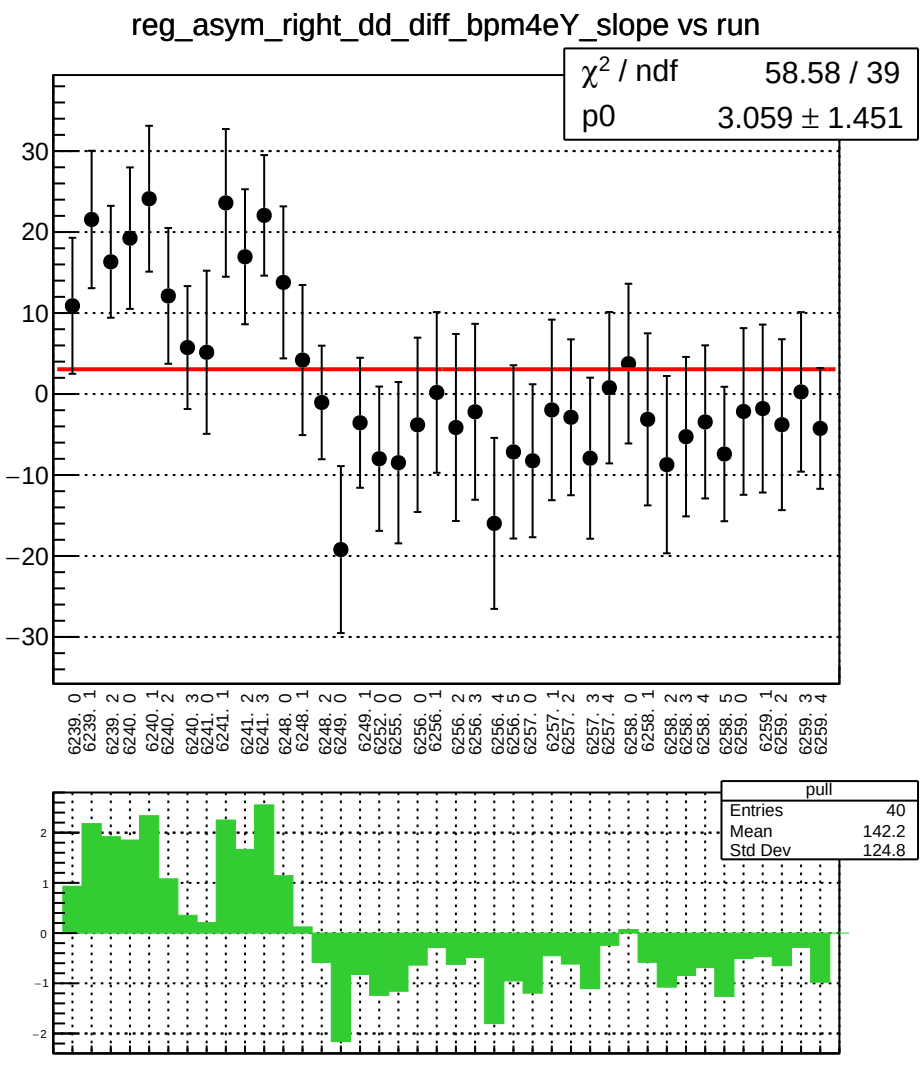

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 80.15 / 39
p0 −19.06 ± 0.1028
pull
Entries 40
Mean 303.7
Std Dev 286.3
pull1D
Entries 40
Mean −0.03635
Std Dev 1.415

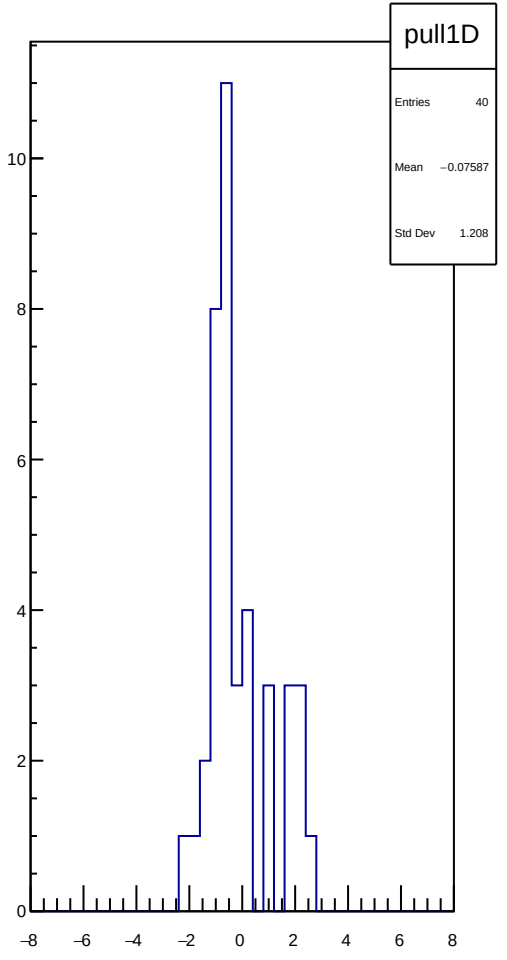

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 175.1 / 39
p0 −36.61 ± 1.872
pull
Entries 40
Mean 72.11
Std Dev 53.05

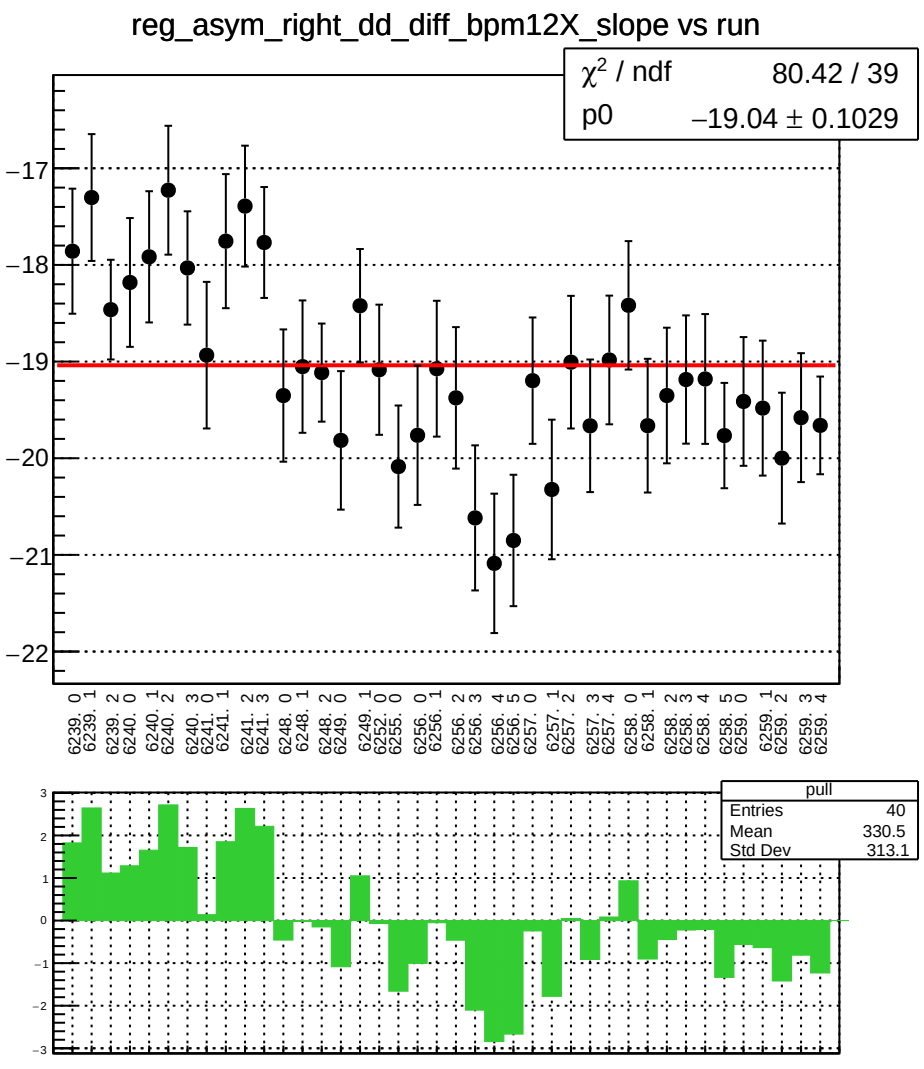

pull1D
Entries 40
Mean −0.3292
Std Dev 2.066

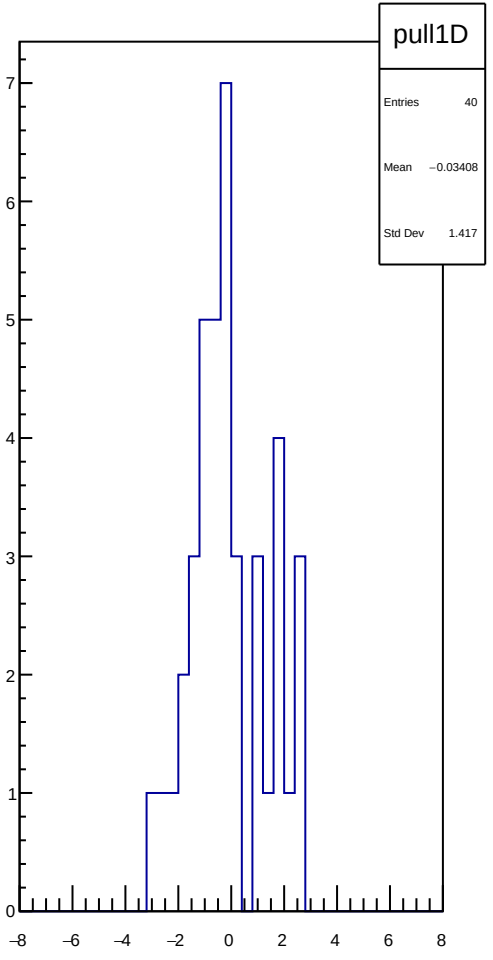

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.84 / 39
p0 4.572 ± 1.325
30
20
10
0
−10
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 151.2
Std Dev 133.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.06304
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

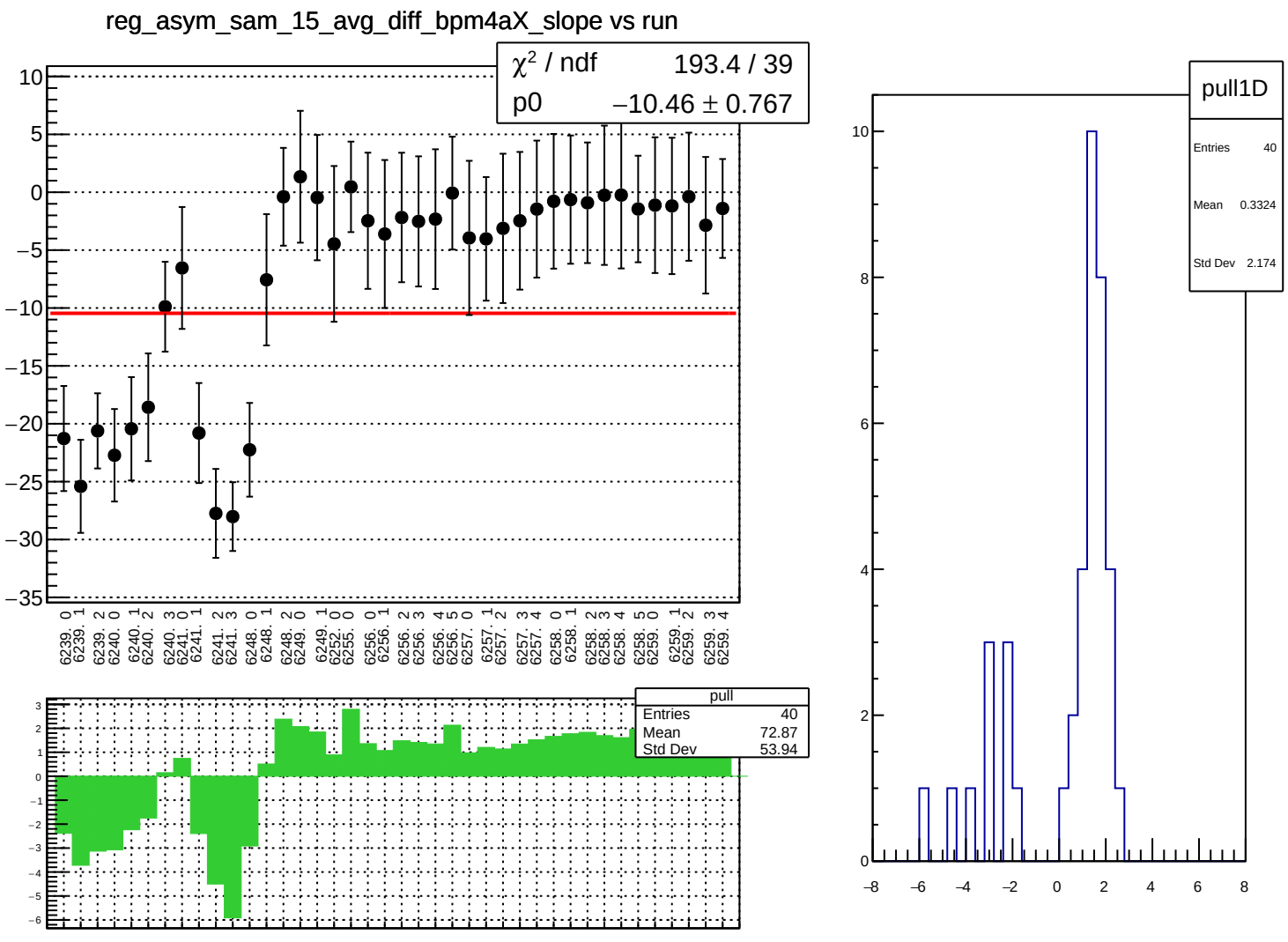

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 184.5 / 39
p0 76.02 ± 2.166
160
140
120
100
80
60
40
20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 69.99
Std Dev 50.95
4
2
0
−2
−4
pull1D
Entries 40
Mean 0.3503
Std Dev 2.119
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

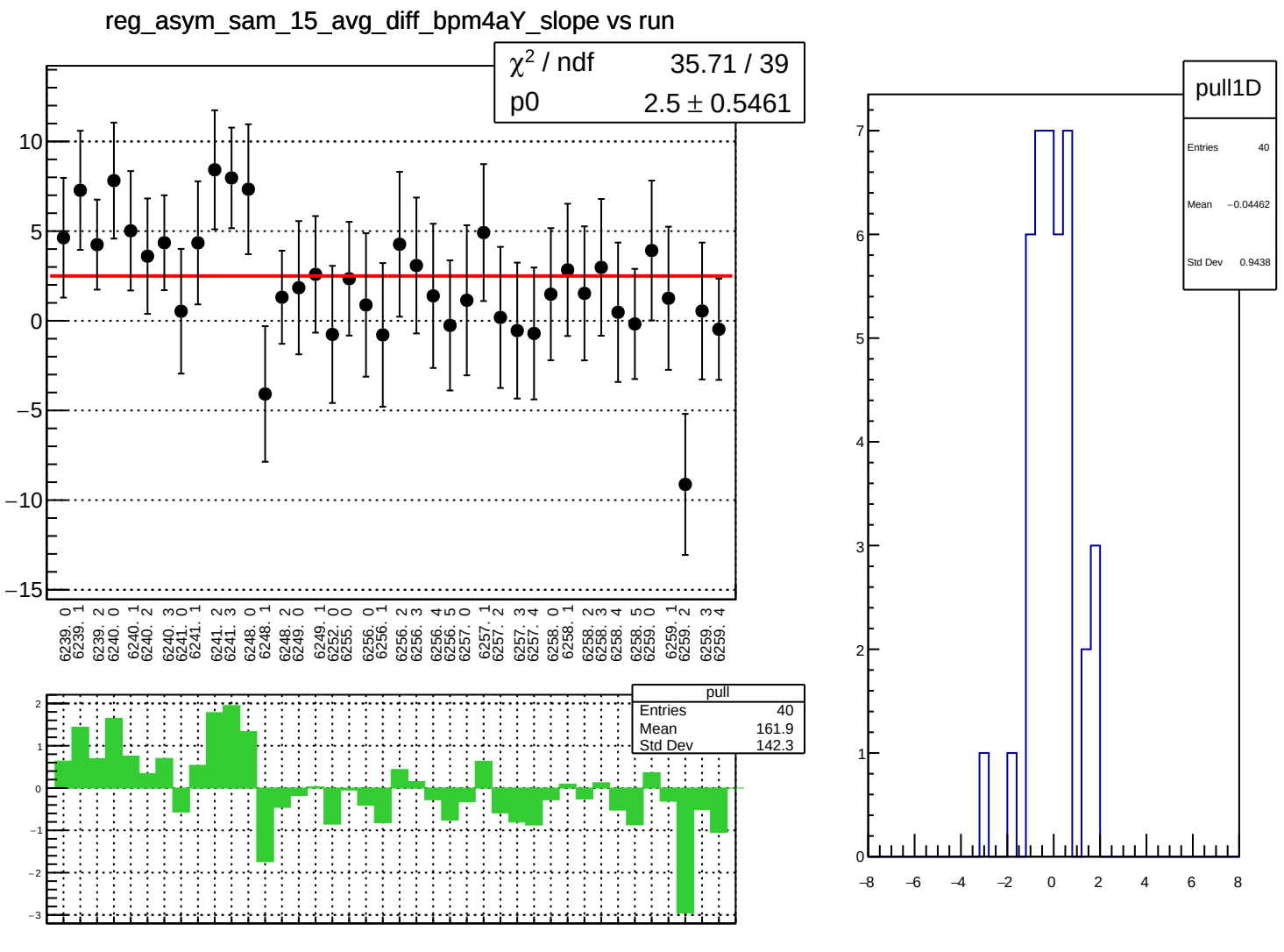

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.58 / 39
p0 3.059 ± 1.451
30
20
10
0
−10
−20
−30
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 142.2
Std Dev 124.8
2
1
0
−1
−2

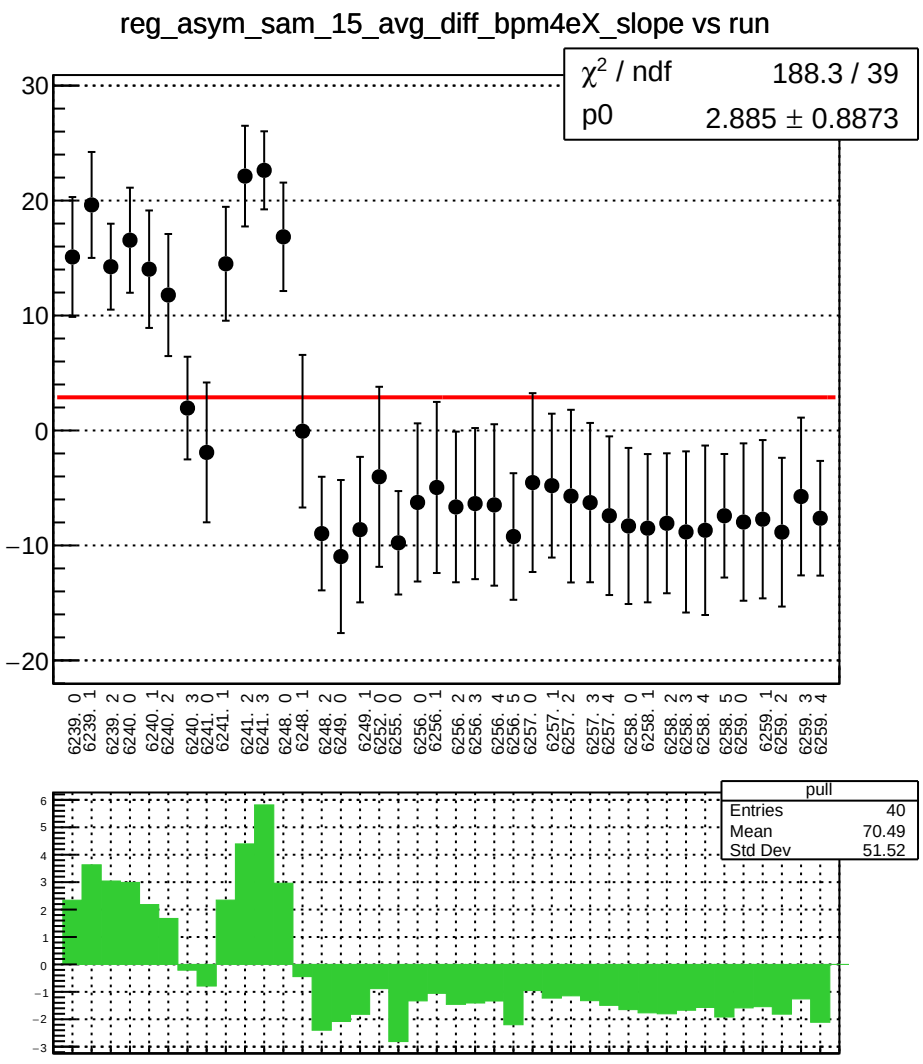

pull1D
Entries 40
Mean −0.07587
Std Dev 1.208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

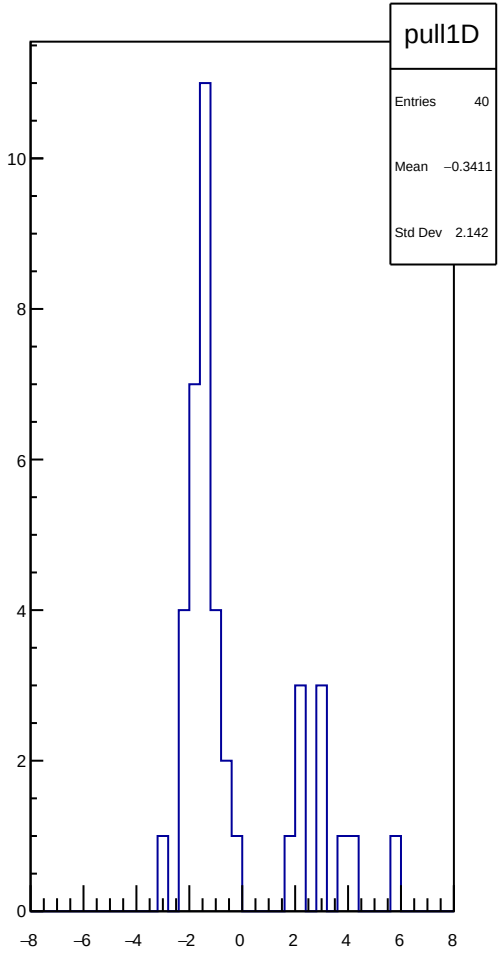

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 80.42 / 39
p0 −19.04 ± 0.1029
pull
Entries 40
Mean 330.5
Std Dev 313.1

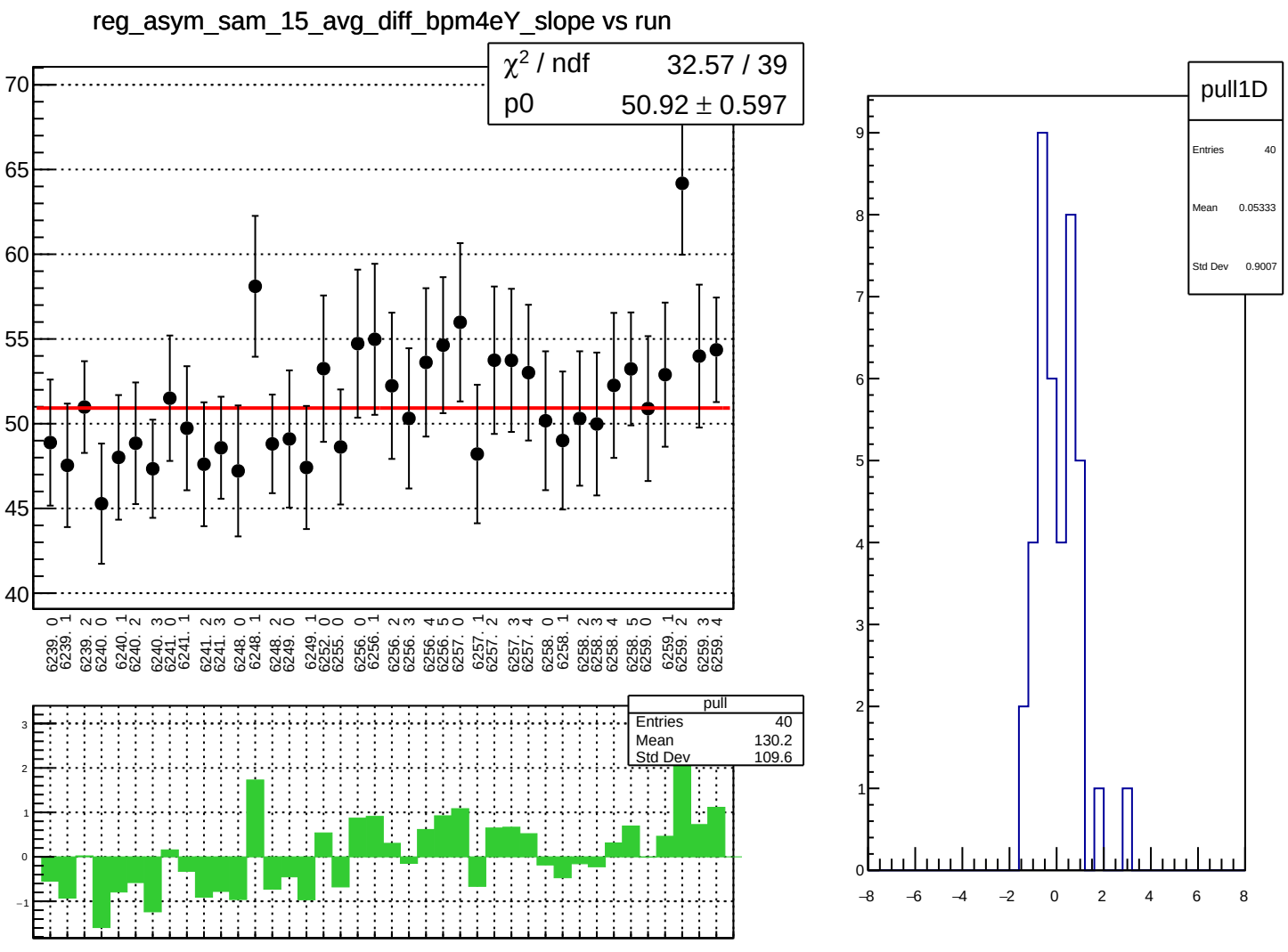

pull1D
Entries 40
Mean −0.03408
Std Dev 1.417

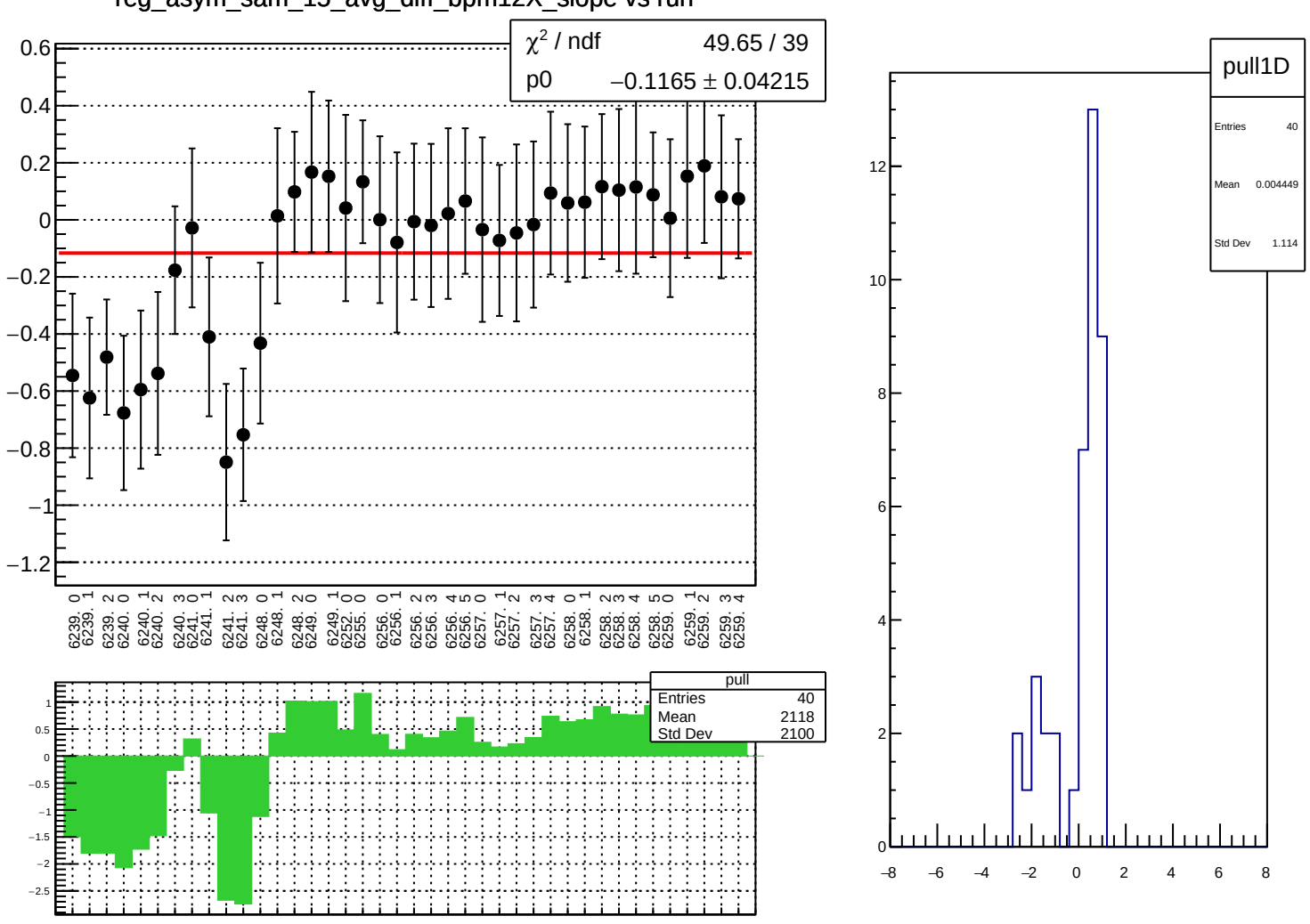

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 193.4 / 39
p0 −10.46 ± 0.767
pull
Entries 40
Mean 72.87
Std Dev 53.94
pull1D
Entries 40
Mean 0.3324
Std Dev 2.174

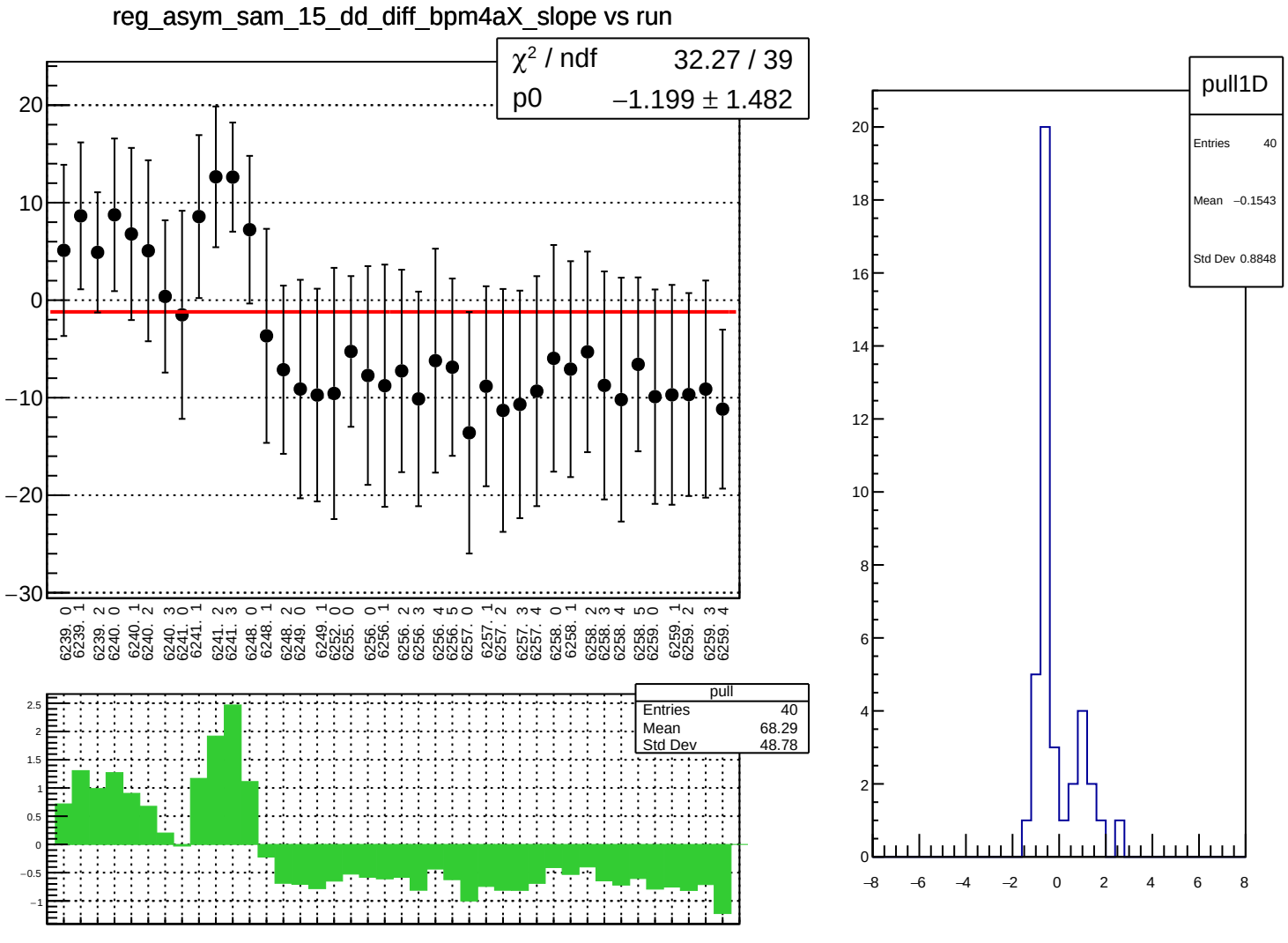

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.71 / 39
p0 2.5 ± 0.5461
pull
Entries 40
Mean 161.9
Std Dev 142.3
pull1D
Entries 40
Mean −0.04462
Std Dev 0.9438

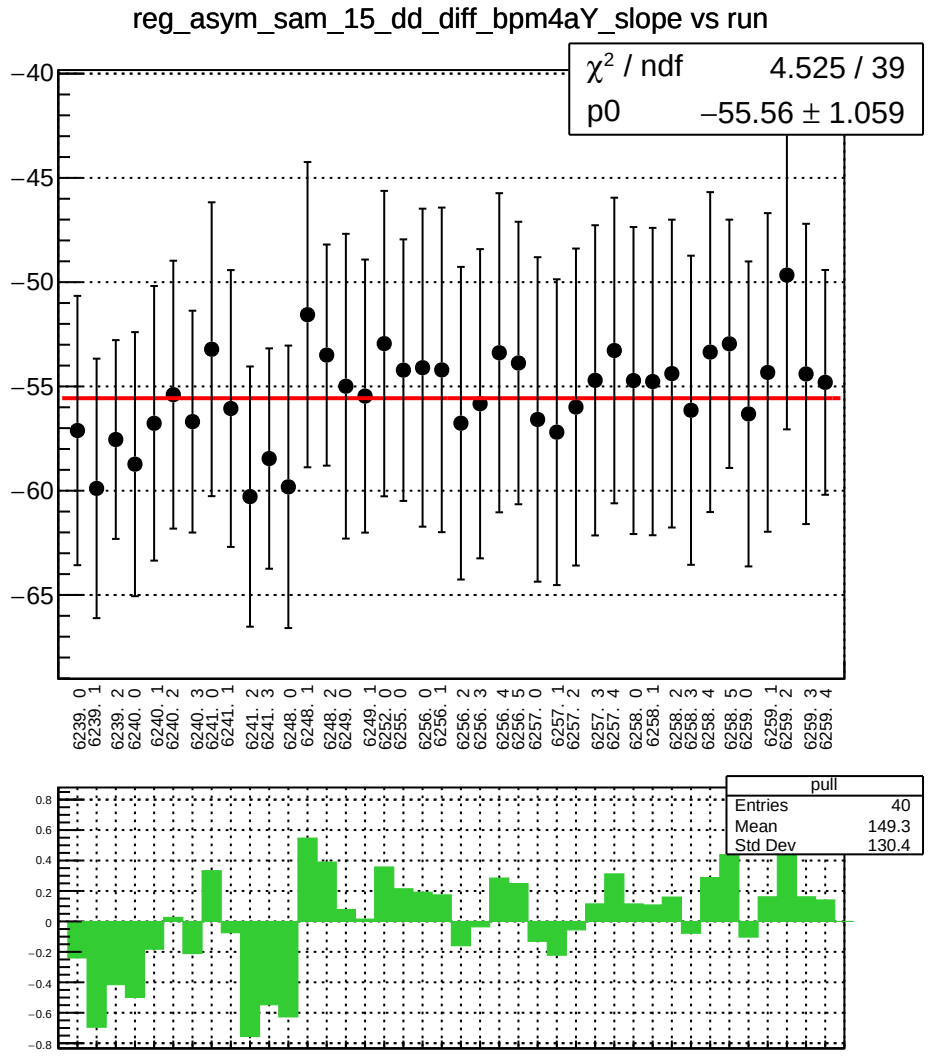

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 188.3 / 39
p0 2.885 ± 0.8873
pull
Entries 40
Mean 70.49
Std Dev 51.52

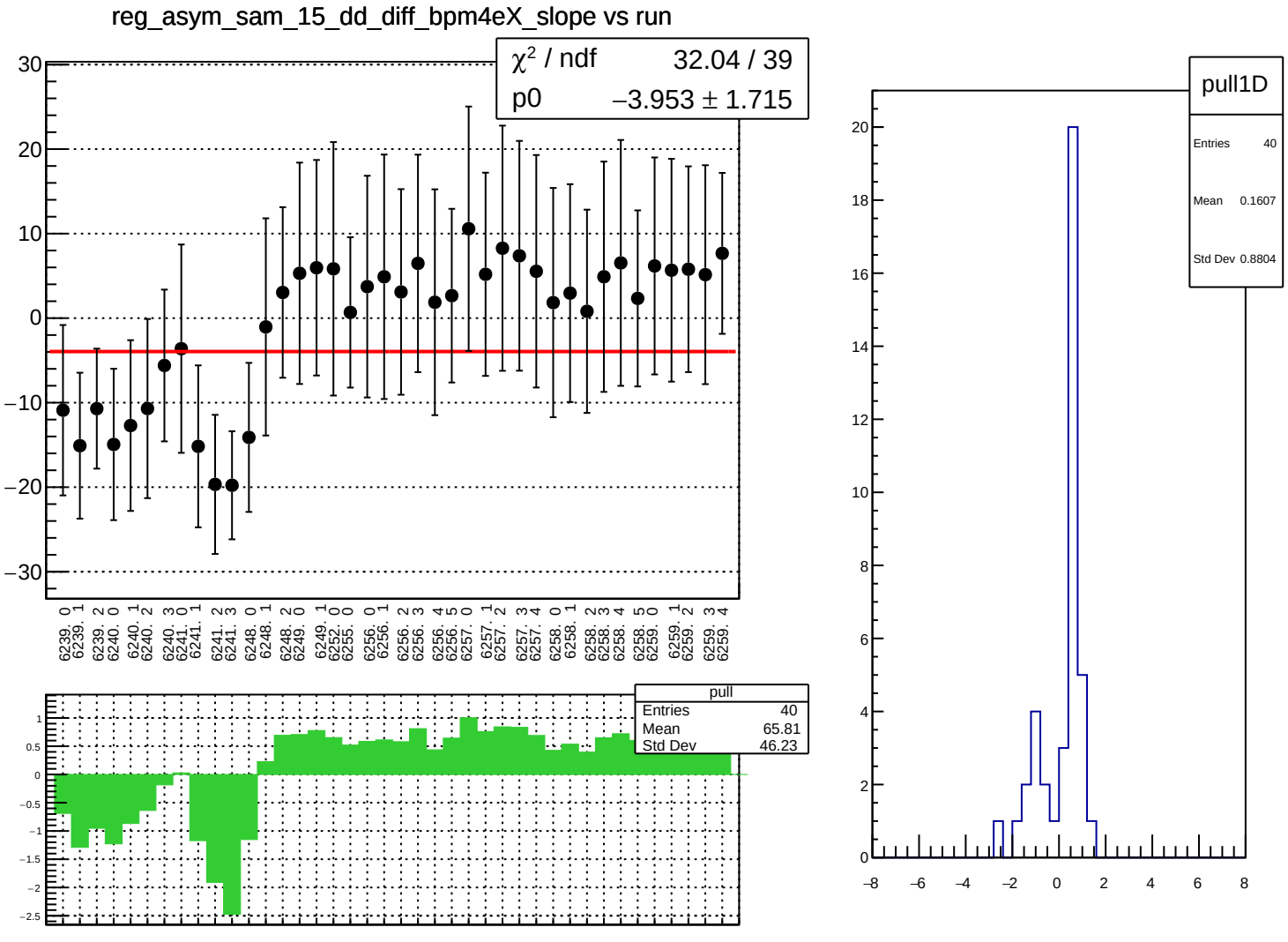

pull1D
Entries 40
Mean −0.3411
Std Dev 2.142

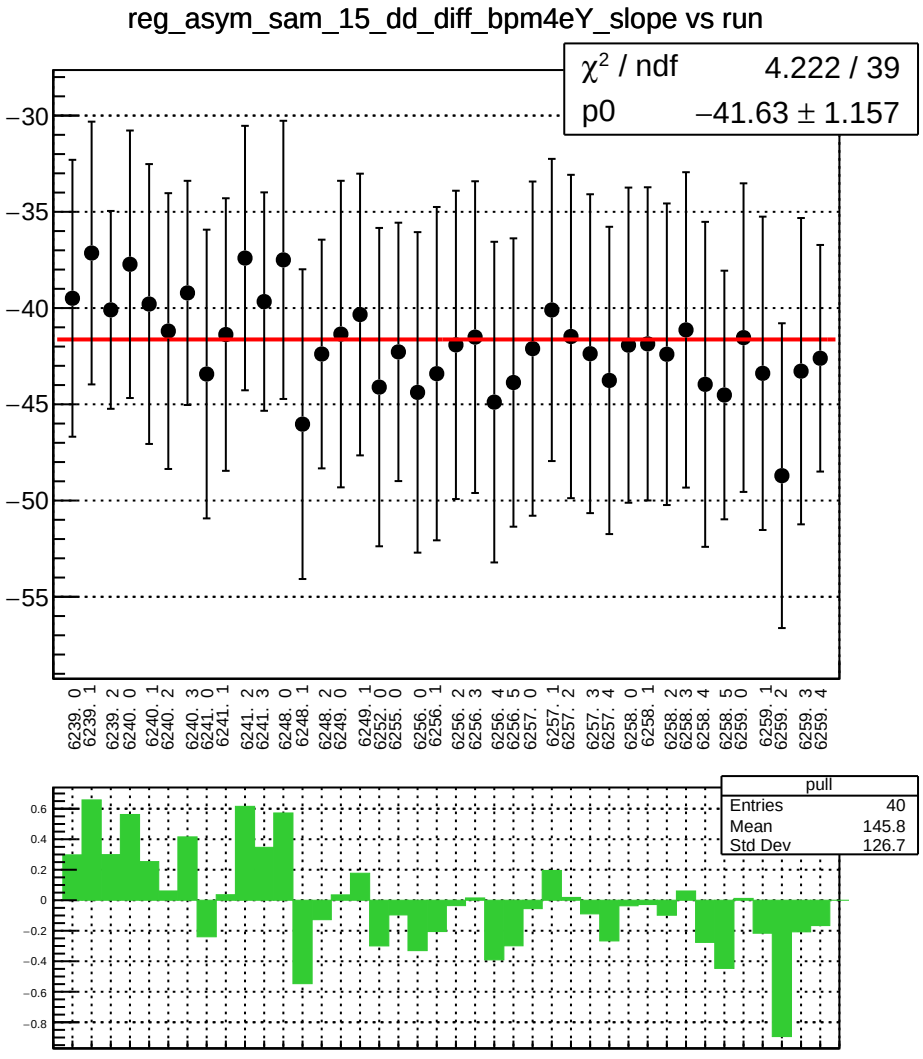

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.57 / 39
p0 50.92 ± 0.597
70
65
60
55
50
45
40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 130.2
Std Dev 109.6
3
2
1
0
−1
pull1D
Entries 40
Mean 0.05333
Std Dev 0.9007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 49.65 / 39
p0 −0.1165 ± 0.04215
pull
Entries 40
Mean 2118
Std Dev 2100
pull1D
Entries 40
Mean 0.004449
Std Dev 1.114


reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.27 / 39
p0 −1.199 ± 1.482
pull
Entries 40
Mean 68.29
Std Dev 48.78
pull1D
Entries 40
Mean −0.1543
Std Dev 0.8848


reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.525 / 39
p0 −55.56 ± 1.059
−40
−45
−50
−55
−60
−65
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 149.3
Std Dev 130.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 40
Mean 0.01569
Std Dev 0.336
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.04 / 39
p0 −3.953 ± 1.715
30
20
10
0
−10
−20
−30
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 65.81
Std Dev 46.23
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.1607
Std Dev 0.8804
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.222 / 39
p0 −41.63 ± 1.157
−30
−35
−40
−45
−50
−55
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
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6257. 4
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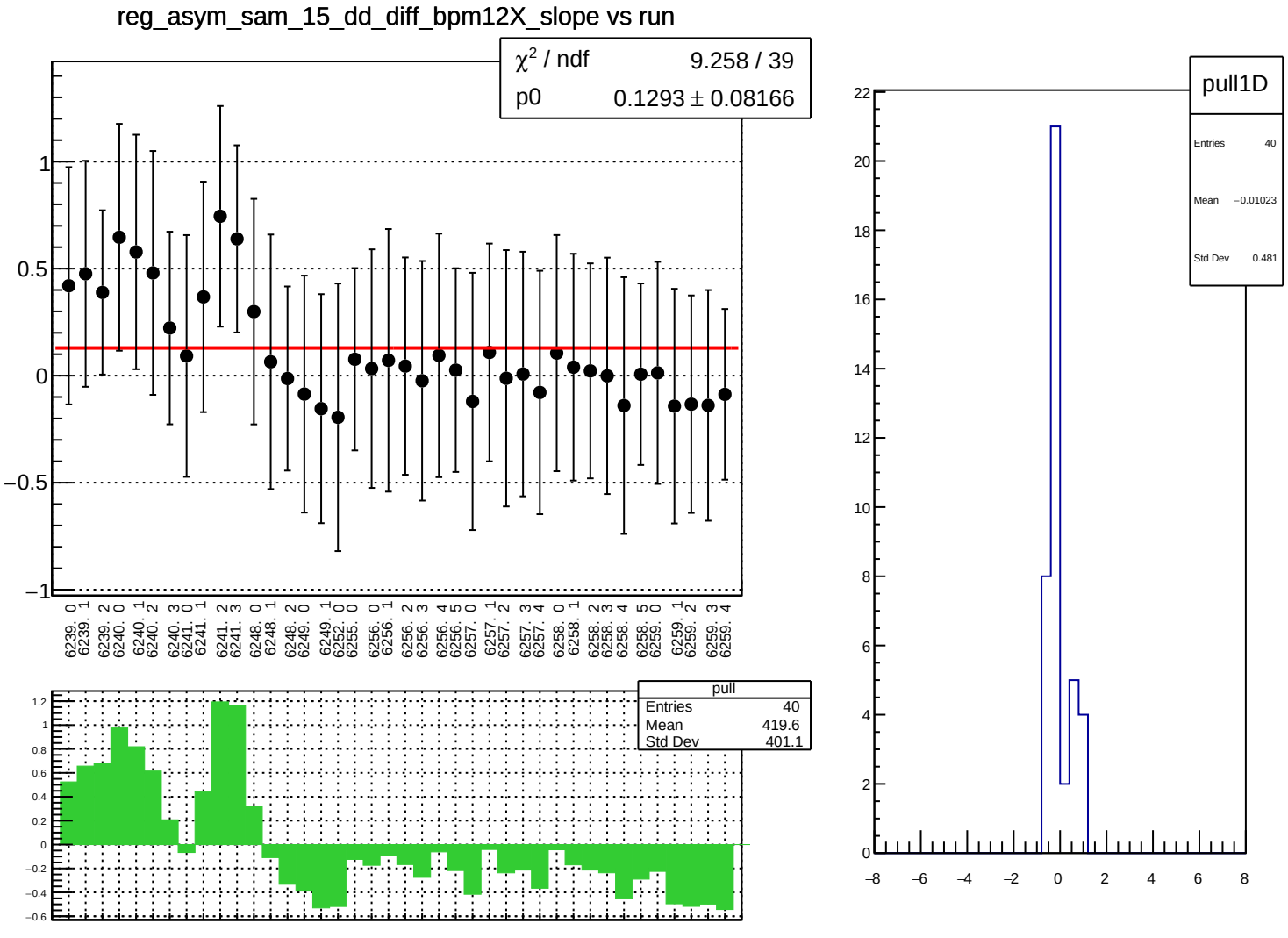
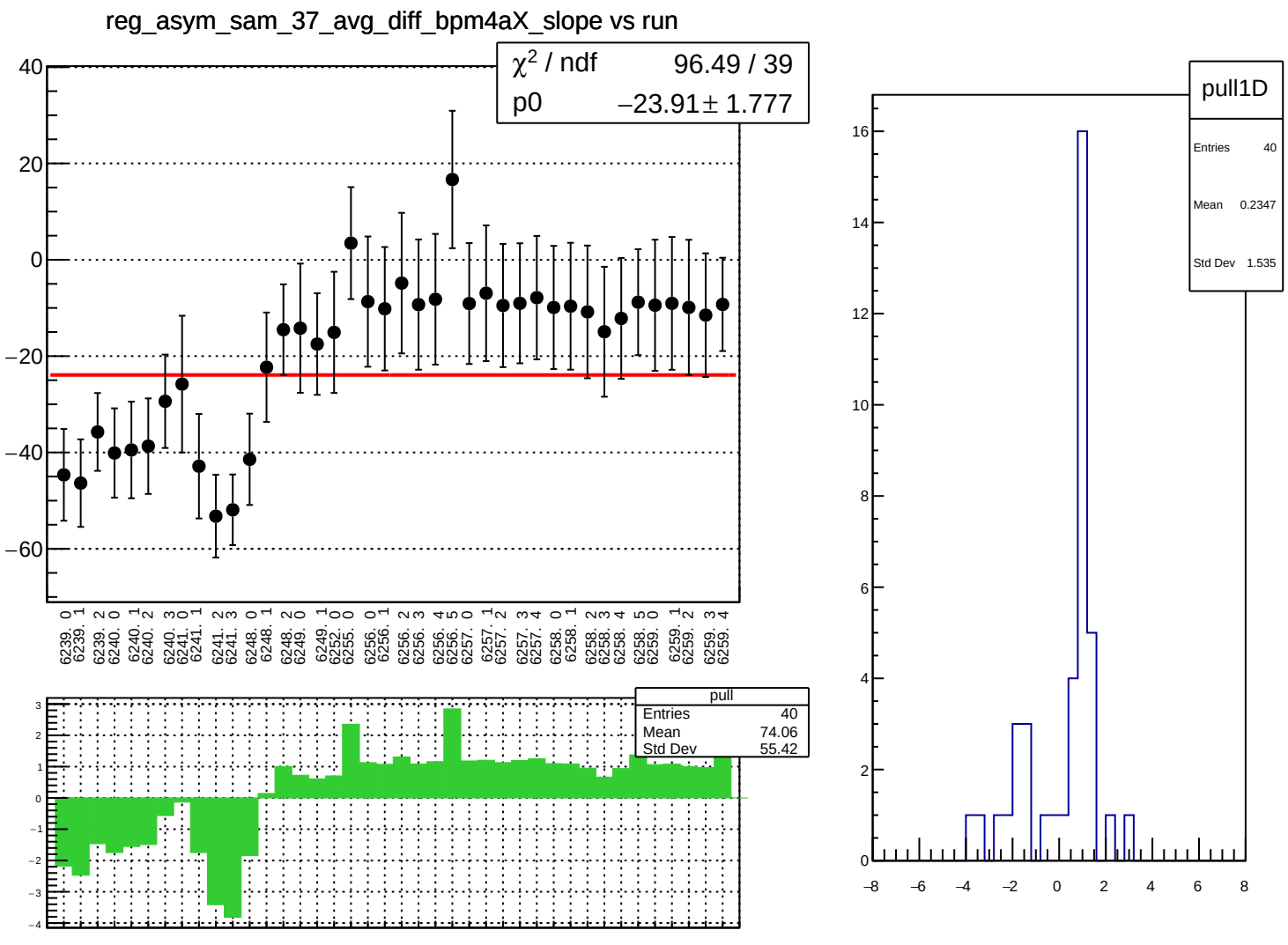
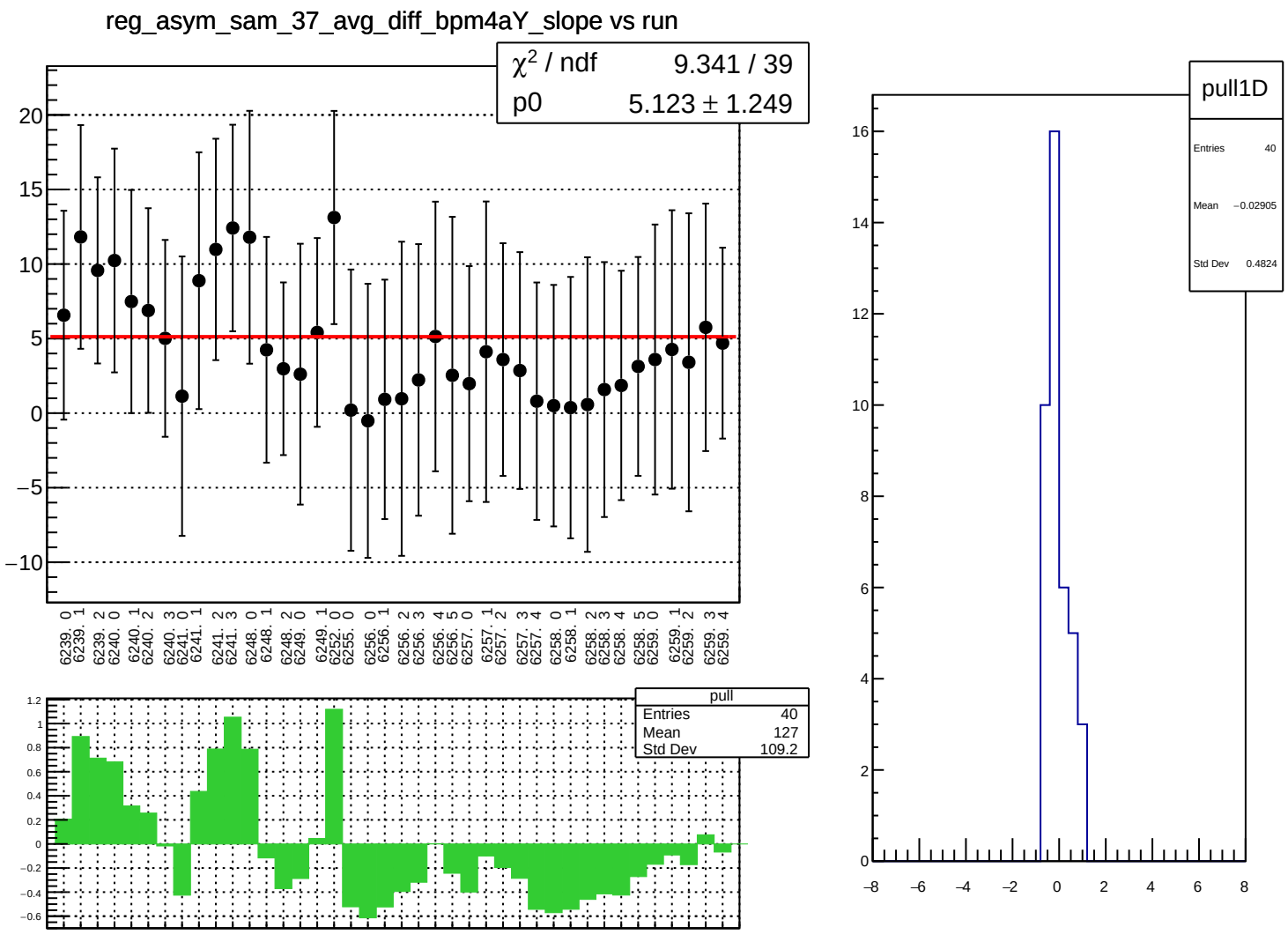
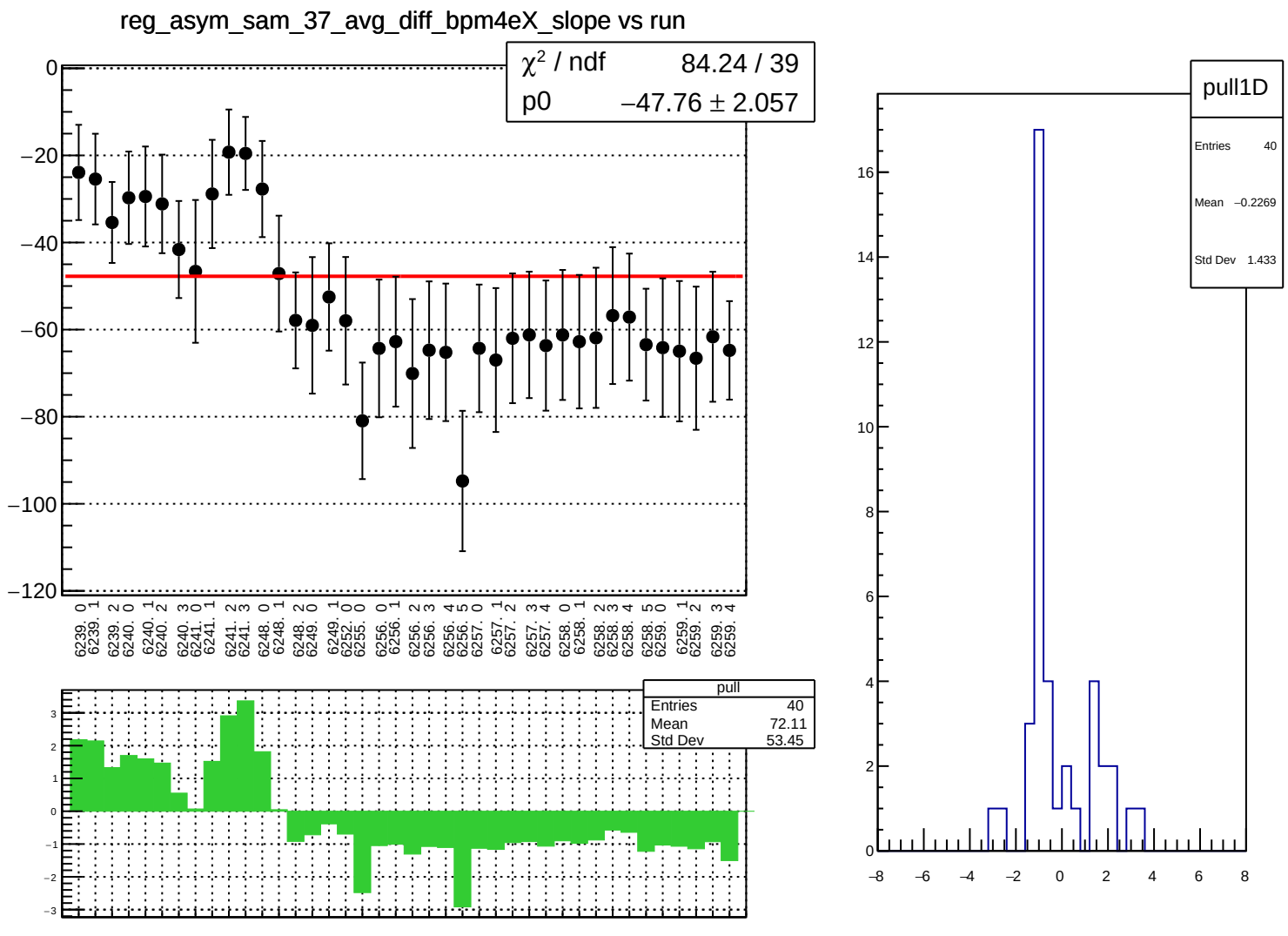
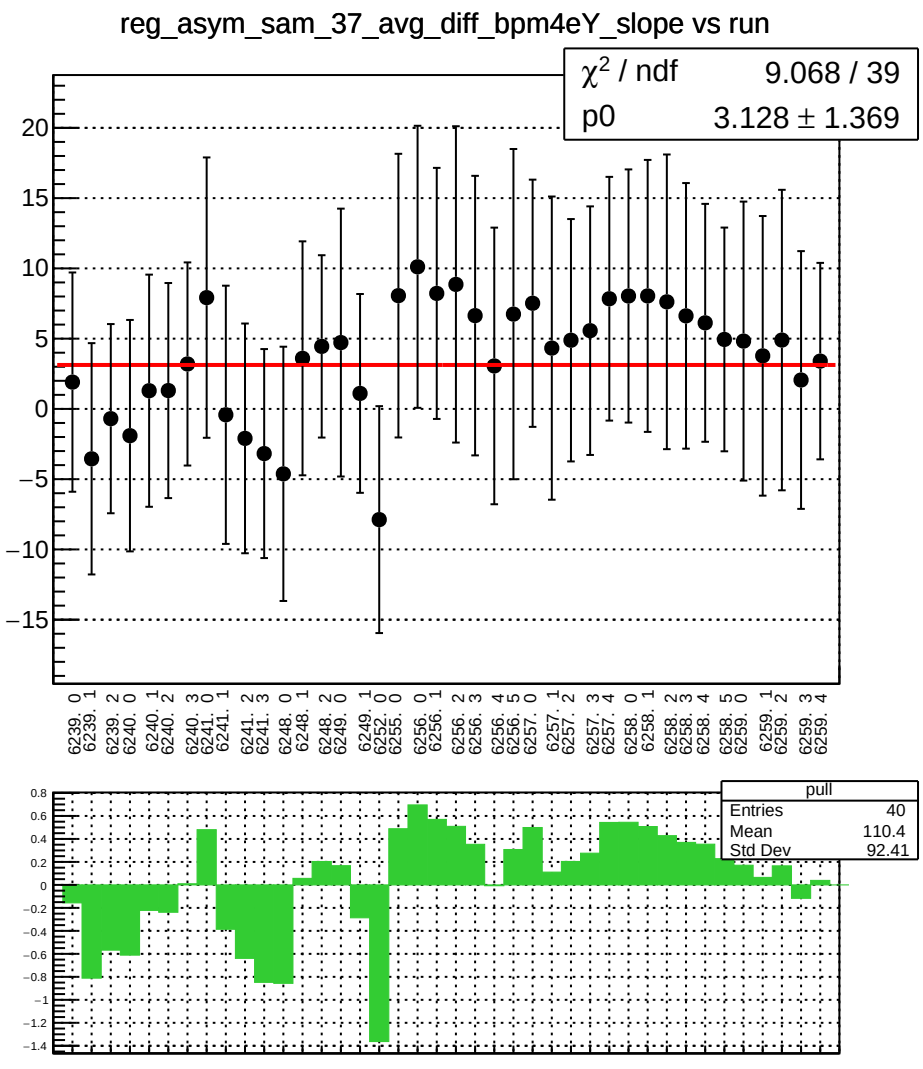
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 145.8
Std Dev 126.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 40
Mean −0.01797
Std Dev 0.3244
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

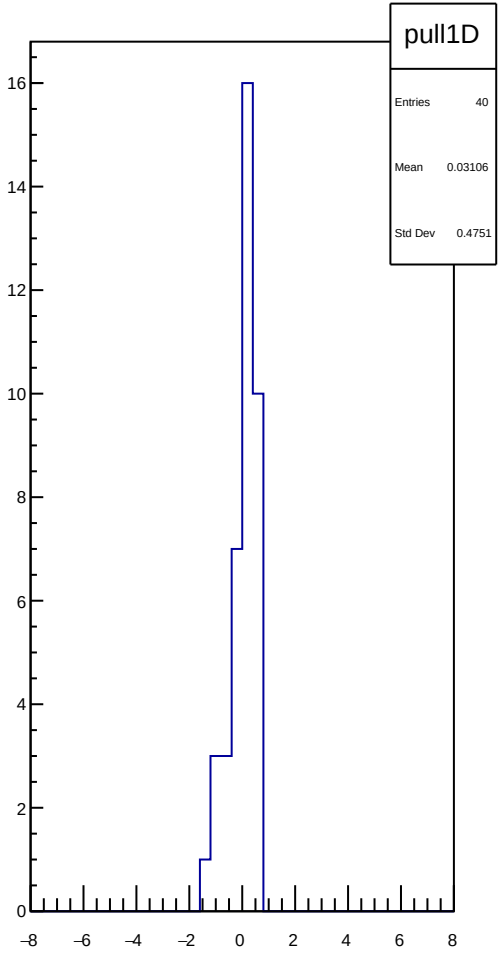

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 9.258 / 39
p0 0.1293 ± 0.08166
pull
Entries 40
Mean 419.6
Std Dev 401.1
pull1D
Entries 40
Mean −0.01023
Std Dev 0.481

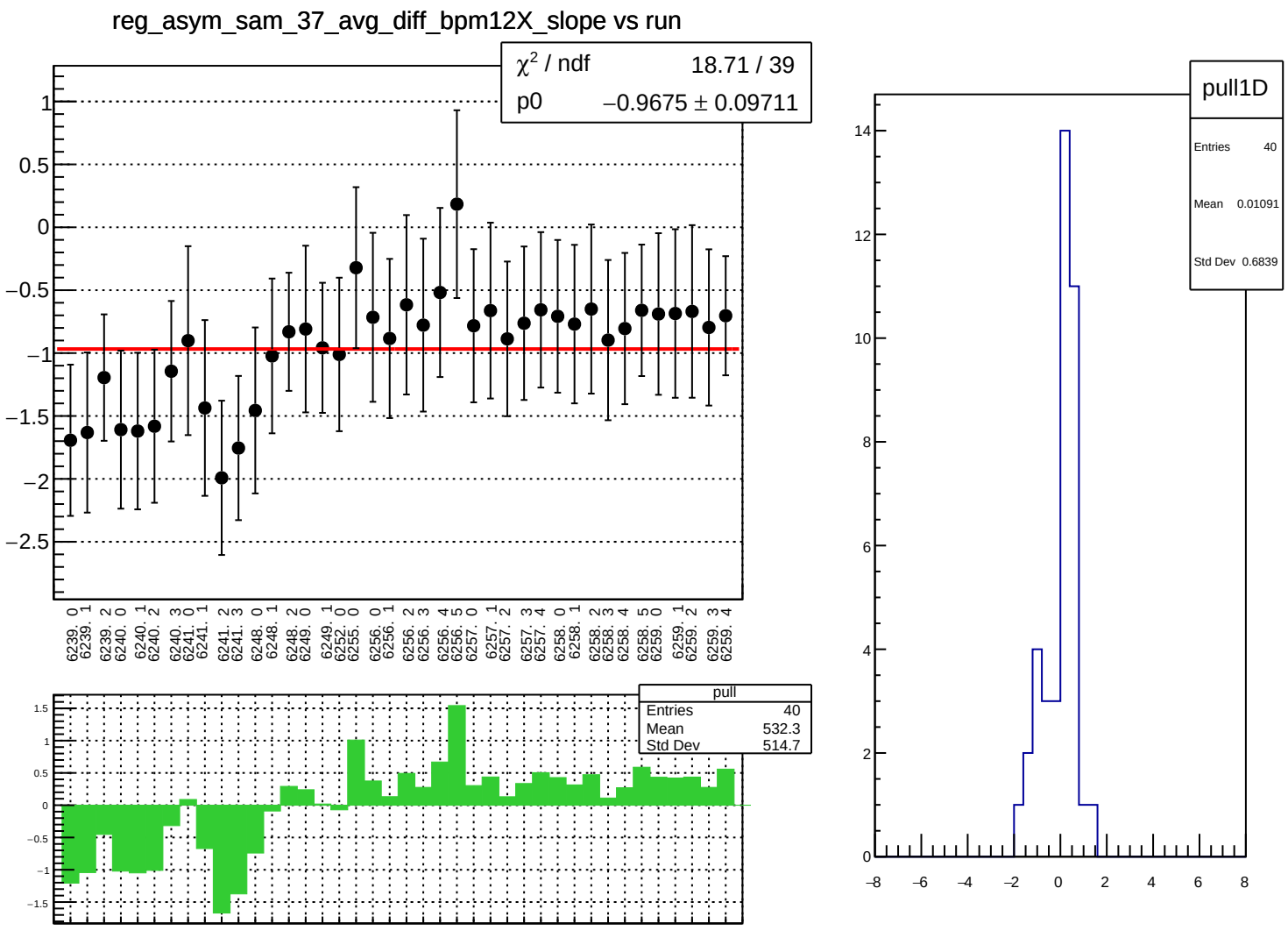

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 96.49 / 39
p0 −23.91± 1.777
40
20
0
−20
−40
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 74.06
Std Dev 55.42
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 40
Mean 0.2347
Std Dev 1.535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

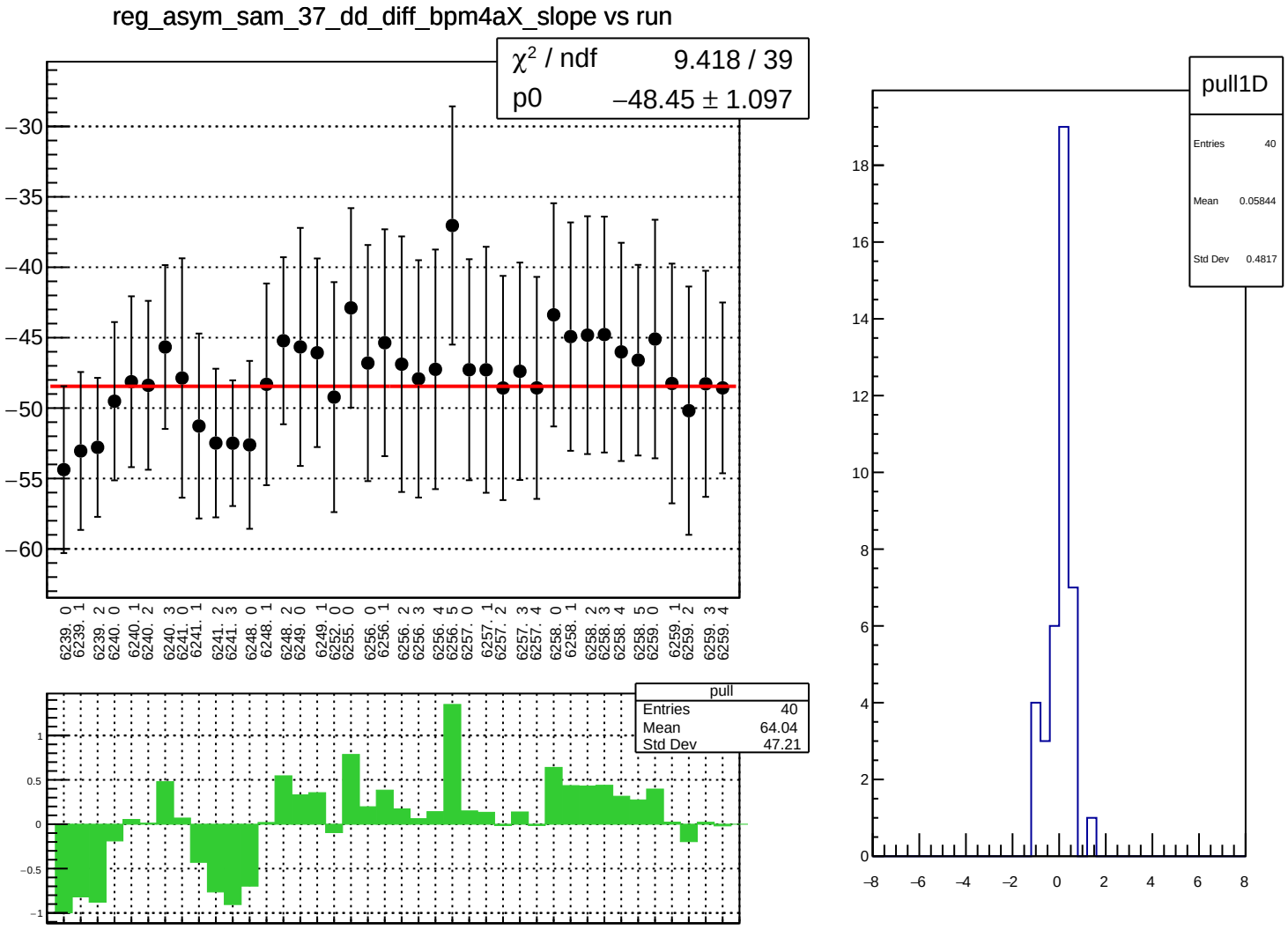

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.341 / 39
p0 5.123 ± 1.249
20
15
10
5
0
−5
−10
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 127
Std Dev 109.2
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 40
Mean −0.02905
Std Dev 0.4824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

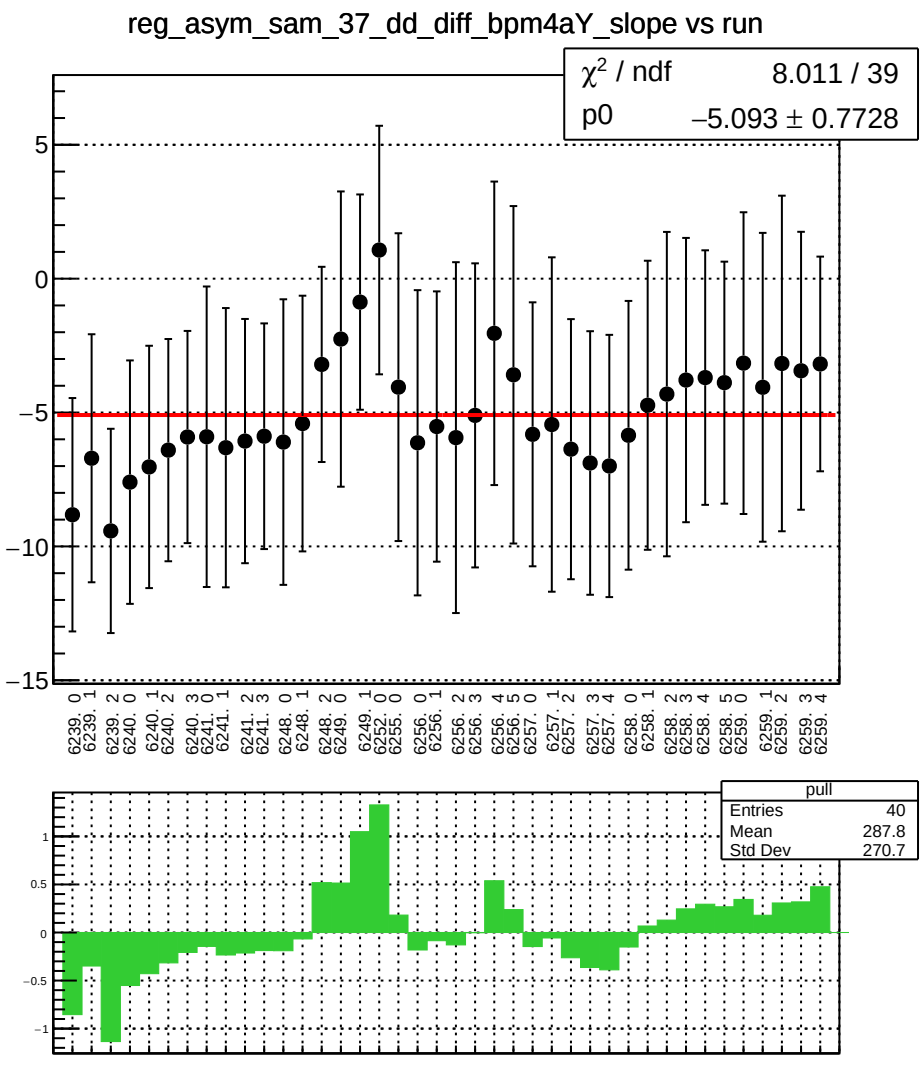

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.24 / 39
p0 −47.76 ± 2.057
0
−20
−40
−60
−80
−100
−120
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 72.11
Std Dev 53.45
3
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean −0.2269
Std Dev 1.433
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

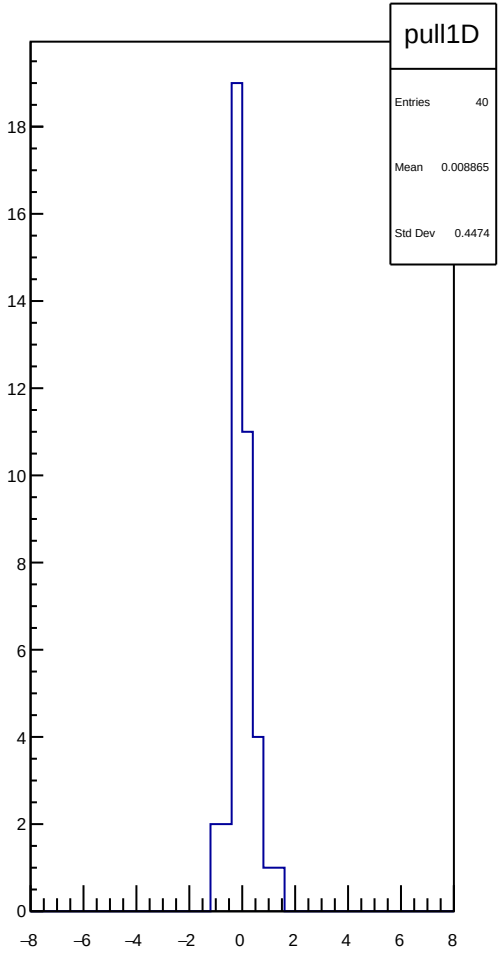

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.068 / 39
p0 3.128 ± 1.369
pull
Entries 40
Mean 110.4
Std Dev 92.41

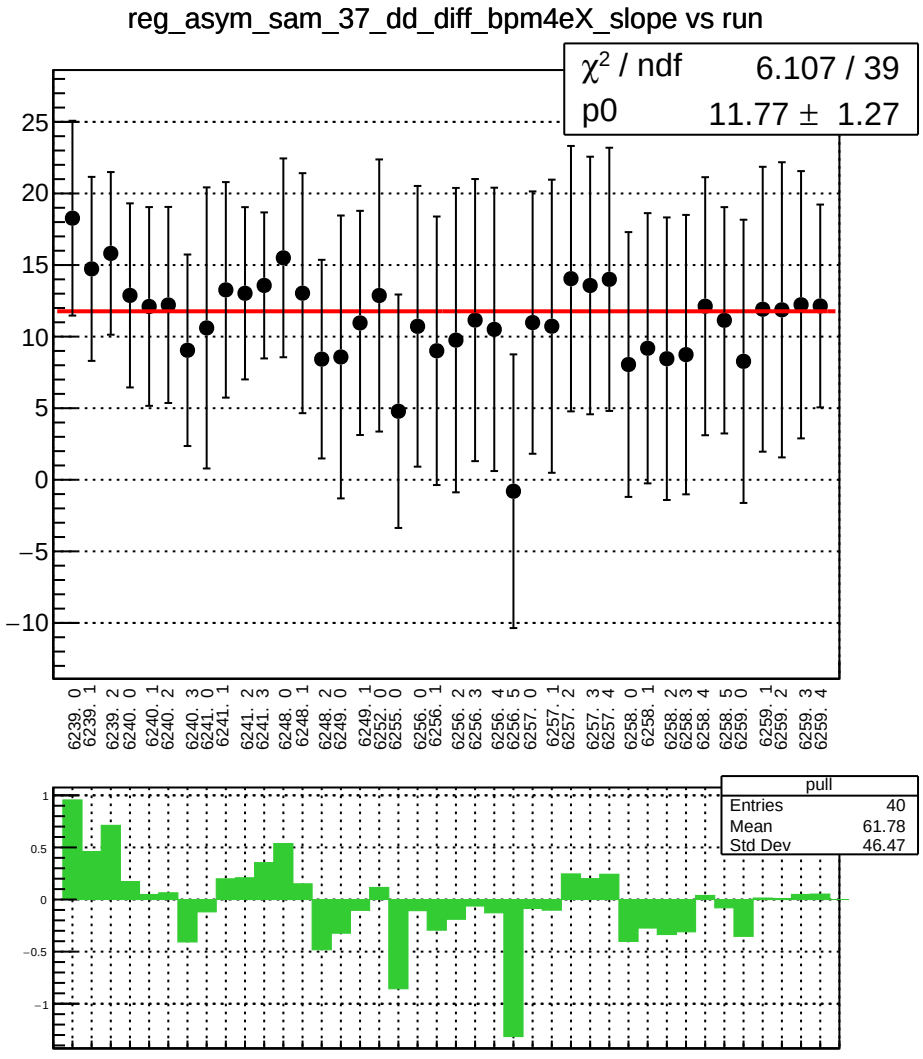

pull1D
Entries 40
Mean 0.03106
Std Dev 0.4751

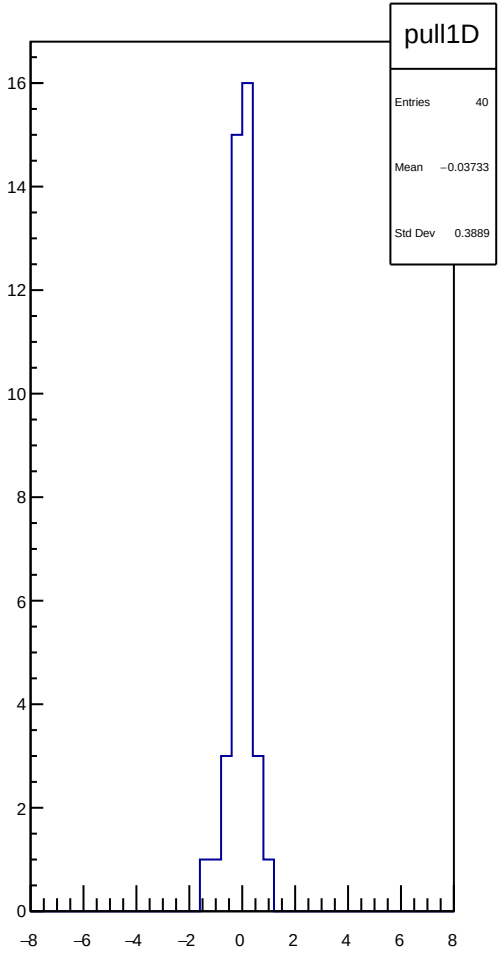

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 18.71 / 39
p0 −0.9675 ± 0.09711
pull
Entries 40
Mean 532.3
Std Dev 514.7
pull1D
Entries 40
Mean 0.01091
Std Dev 0.6839

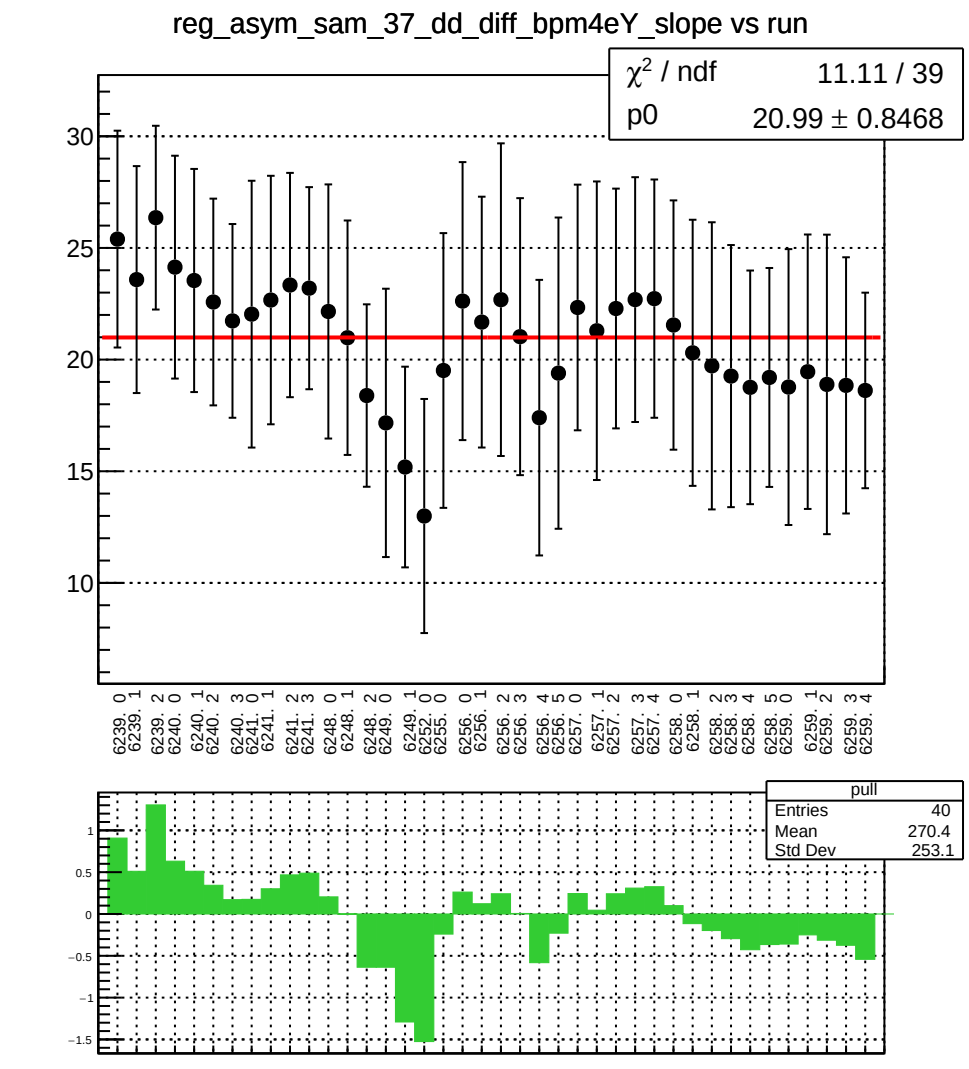

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.418 / 39
p0 −48.45 ± 1.097
−30
−35
−40
−45
−50
−55
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 64.04
Std Dev 47.21
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean 0.05844
Std Dev 0.4817
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

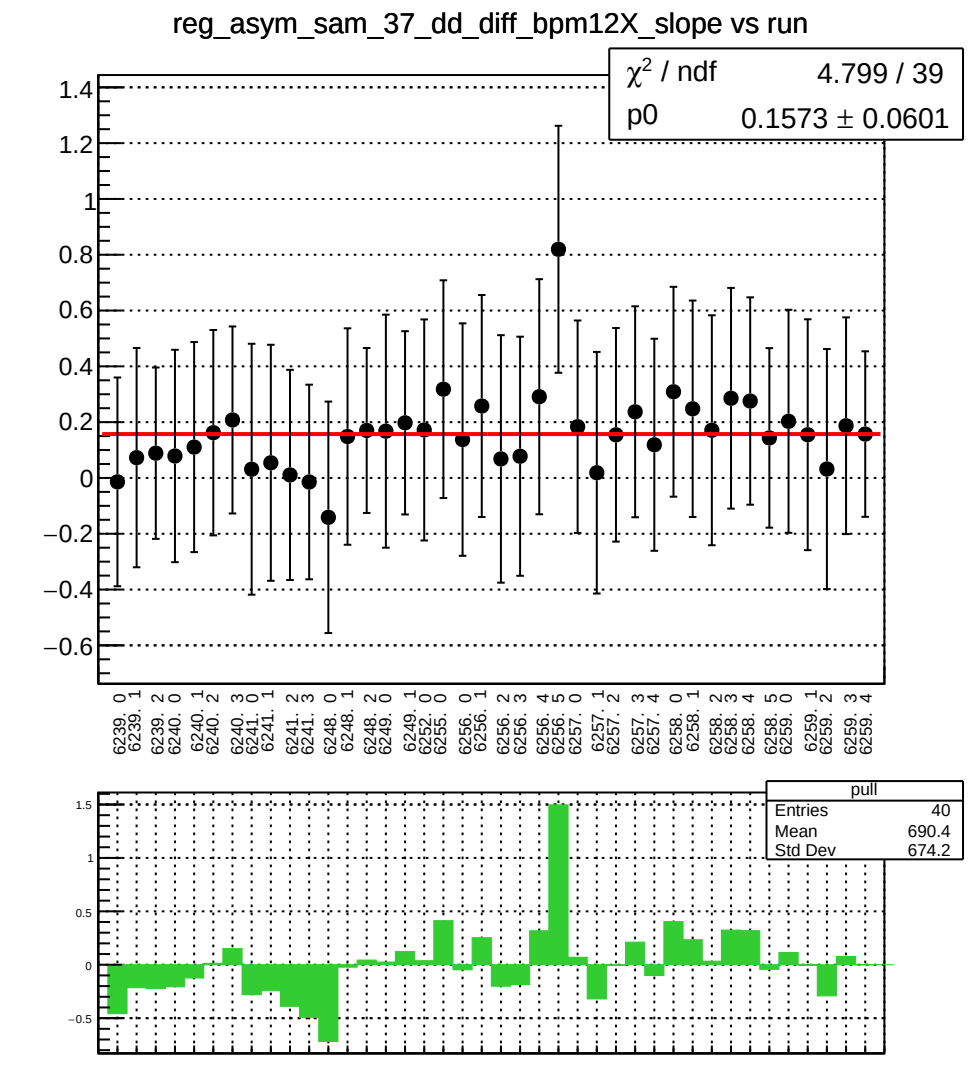

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.011 / 39
p0 −5.093 ± 0.7728
5
0
−5
−10
−15
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 287.8
Std Dev 270.7
1
0.5
0
−0.5
−1

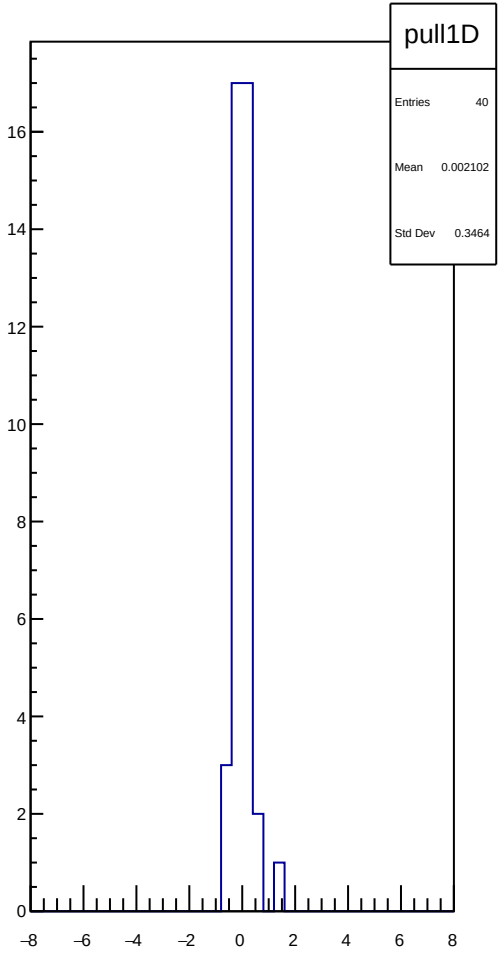

pull1D
Entries 40
Mean 0.008865
Std Dev 0.4474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

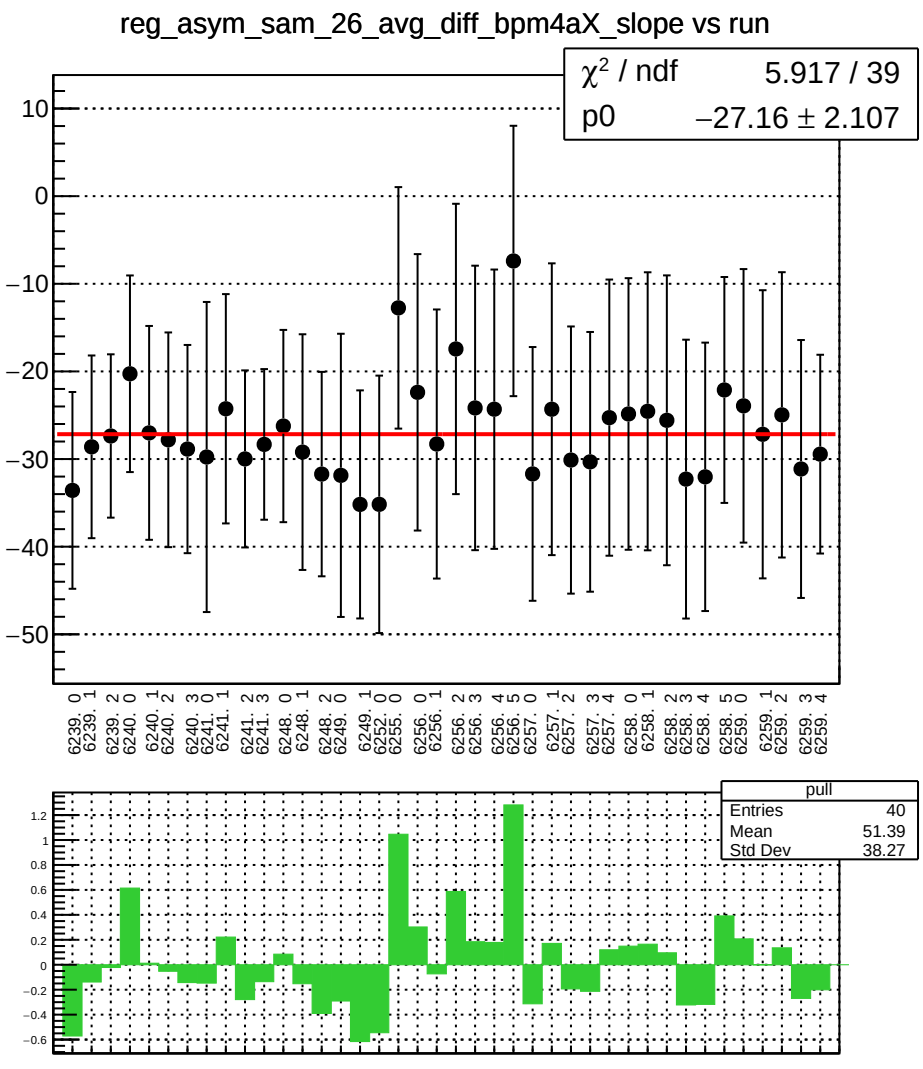

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.107 / 39
p0 11.77 ± 1.27
pull
Entries 40
Mean 61.78
Std Dev 46.47

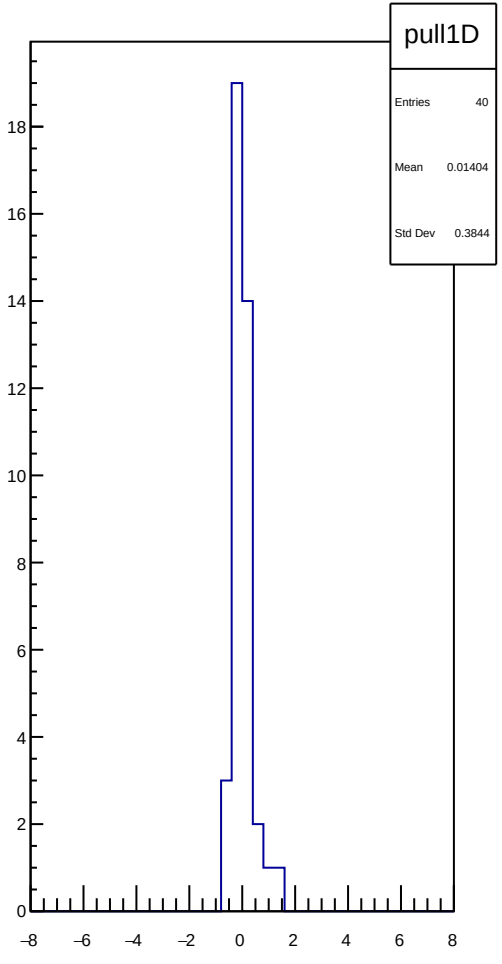

pull1D
Entries 40
Mean −0.03733
Std Dev 0.3889

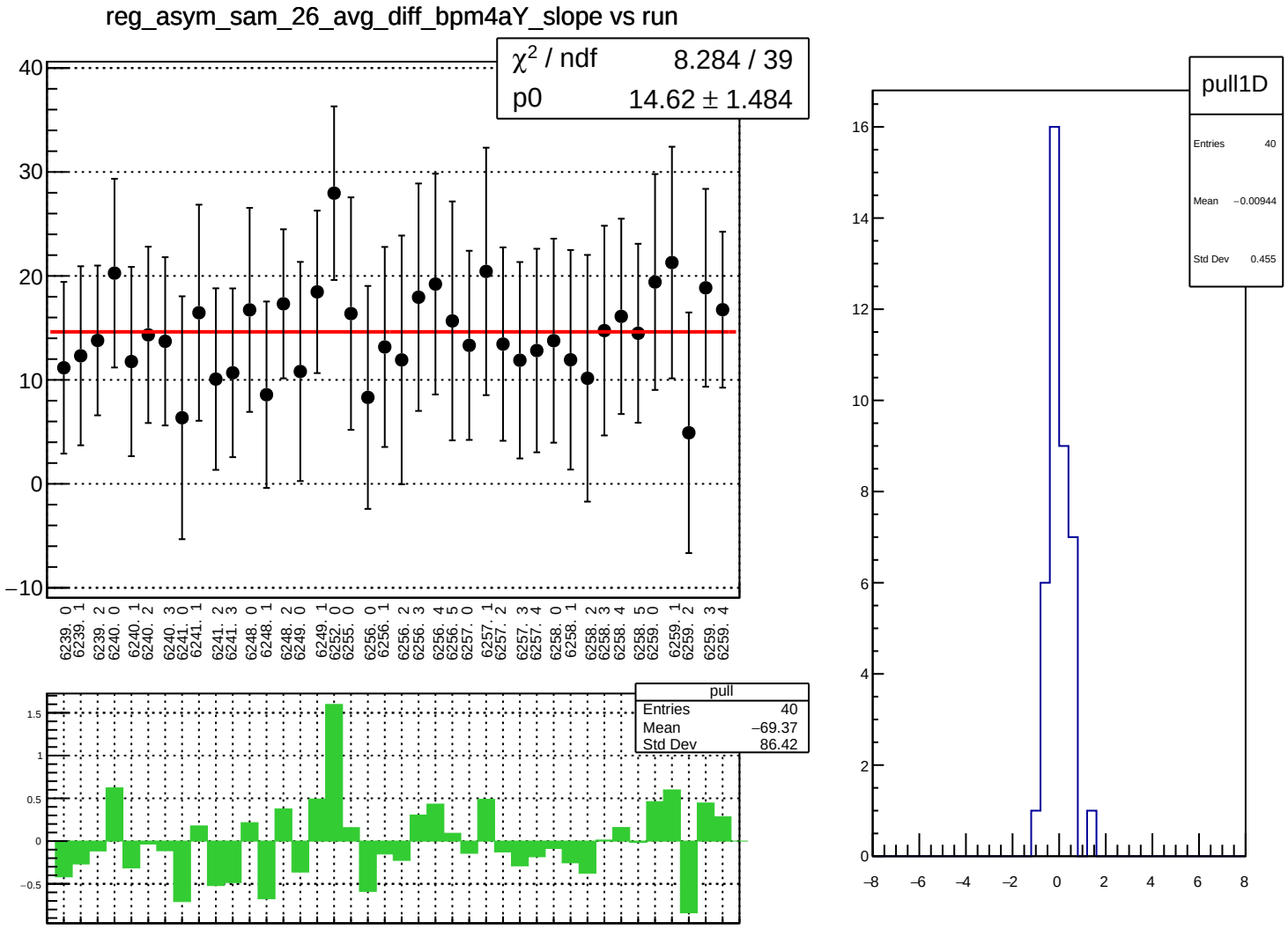

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.11 / 39
p0 20.99 ± 0.8468
30
25
20
15
10
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 270.4
Std Dev 253.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.01174
Std Dev 0.527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

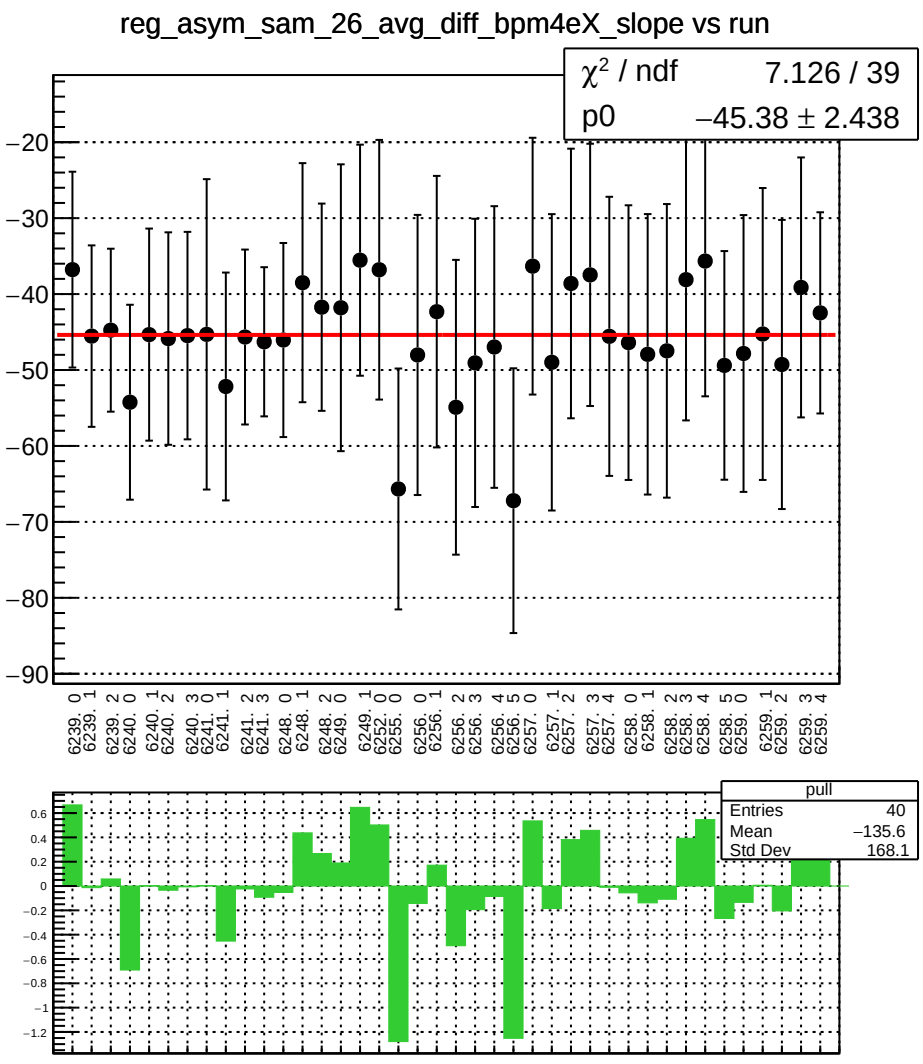

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.799 / 39
p0 0.1573 ± 0.0601
pull
Entries 40
Mean 690.4
Std Dev 674.2

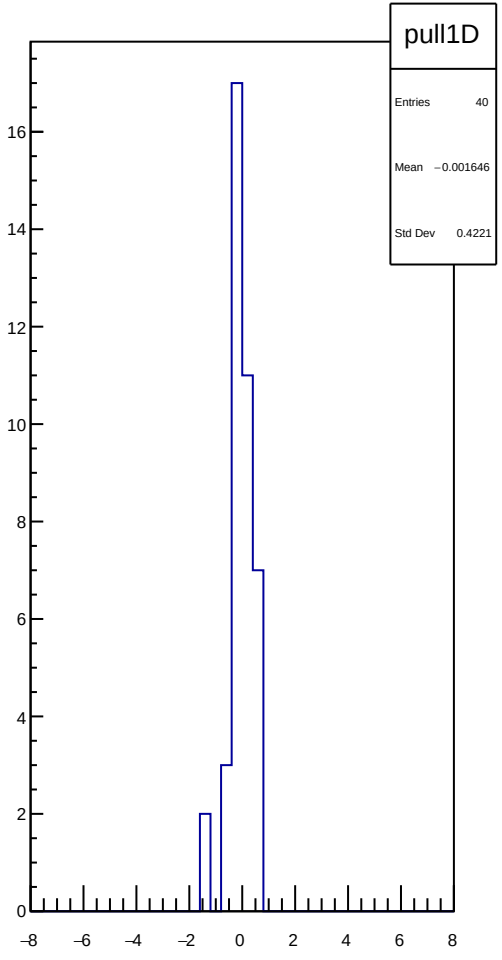

pull1D
Entries 40
Mean 0.002102
Std Dev 0.3464

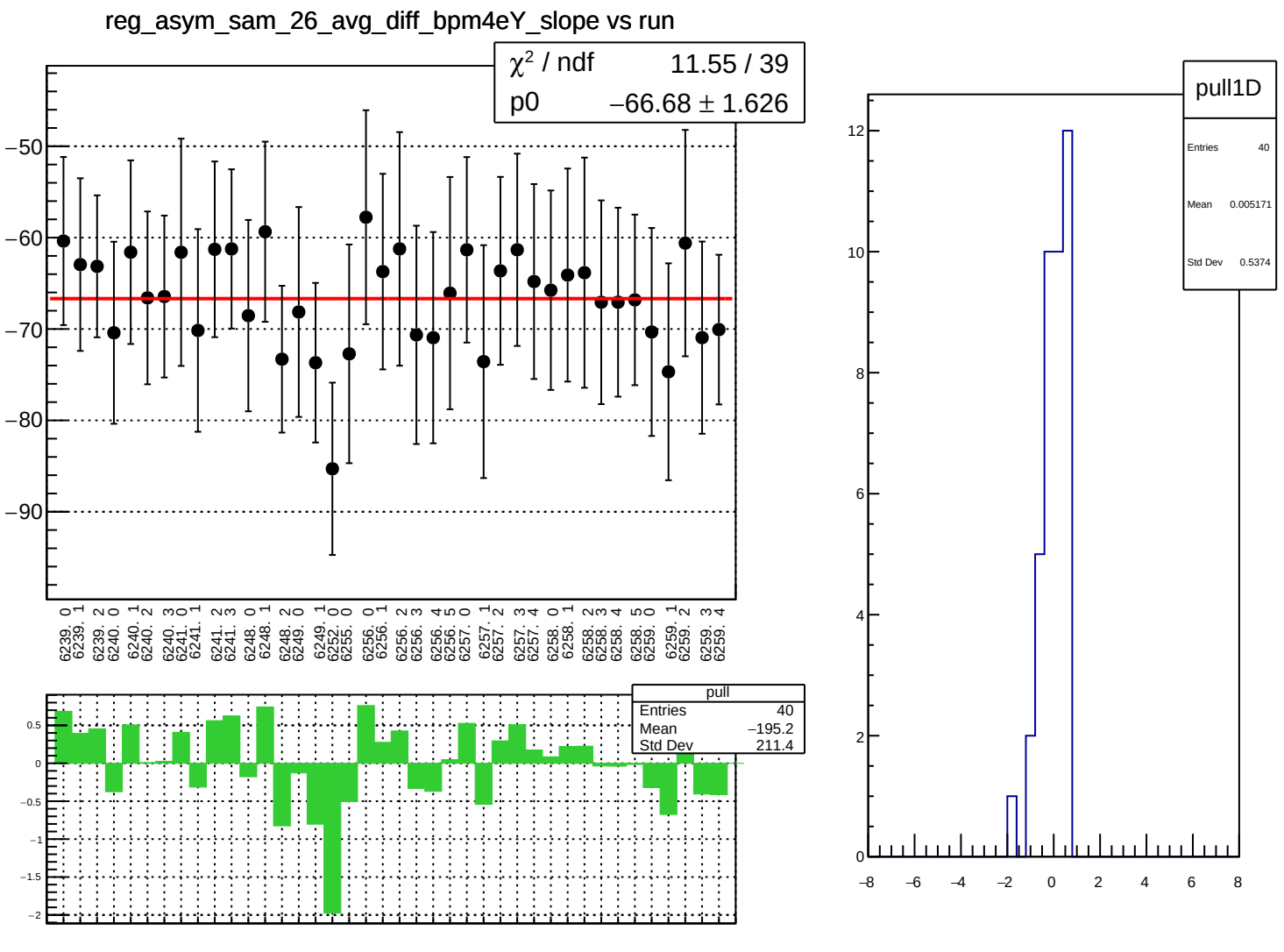

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.917 / 39
p0 −27.16 ± 2.107
pull
Entries 40
Mean 51.39
Std Dev 38.27

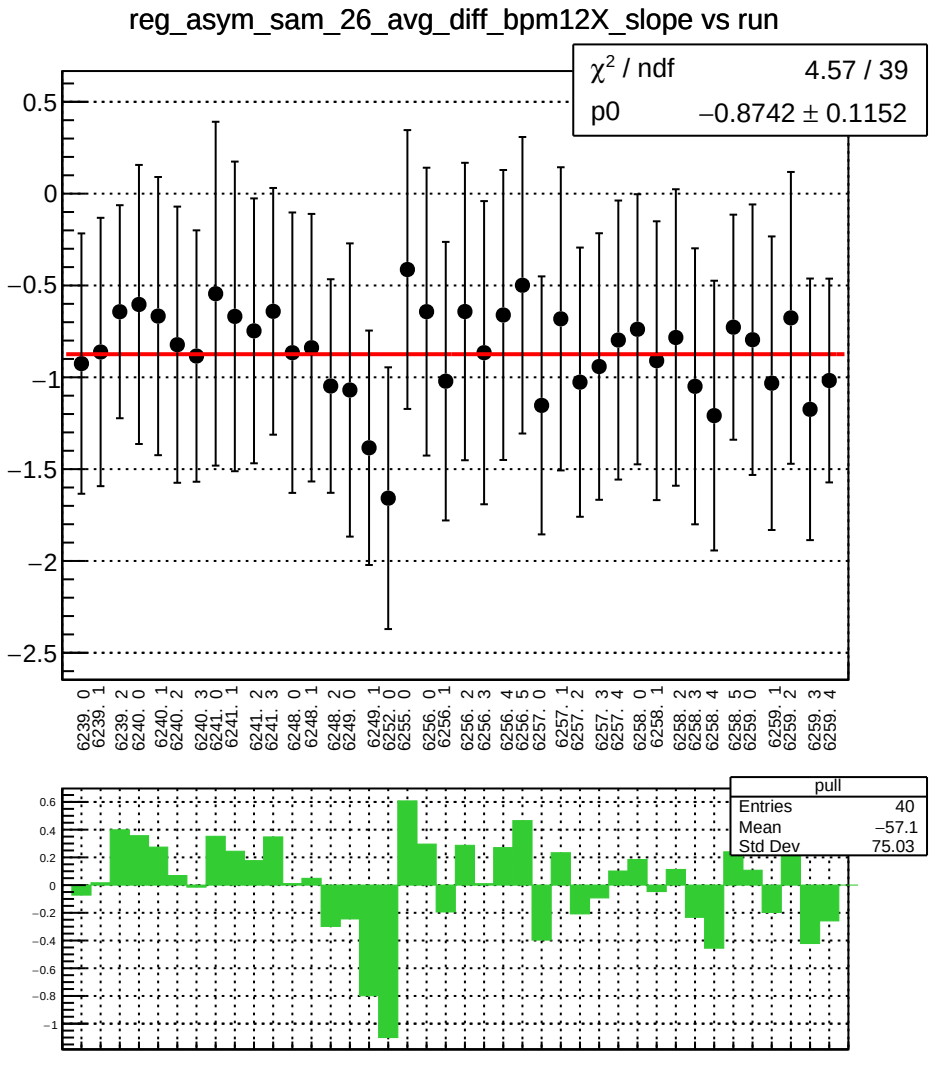

pull1D
Entries 40
Mean 0.01404
Std Dev 0.3844

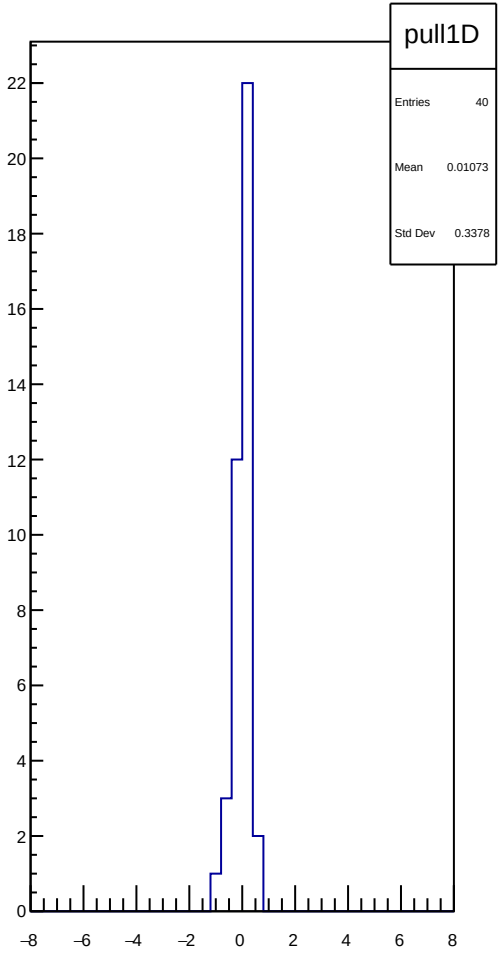

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.284 / 39
p0 14.62 ± 1.484
pull
Entries 40
Mean −69.37
Std Dev 86.42
pull1D
Entries 40
Mean −0.00944
Std Dev 0.455

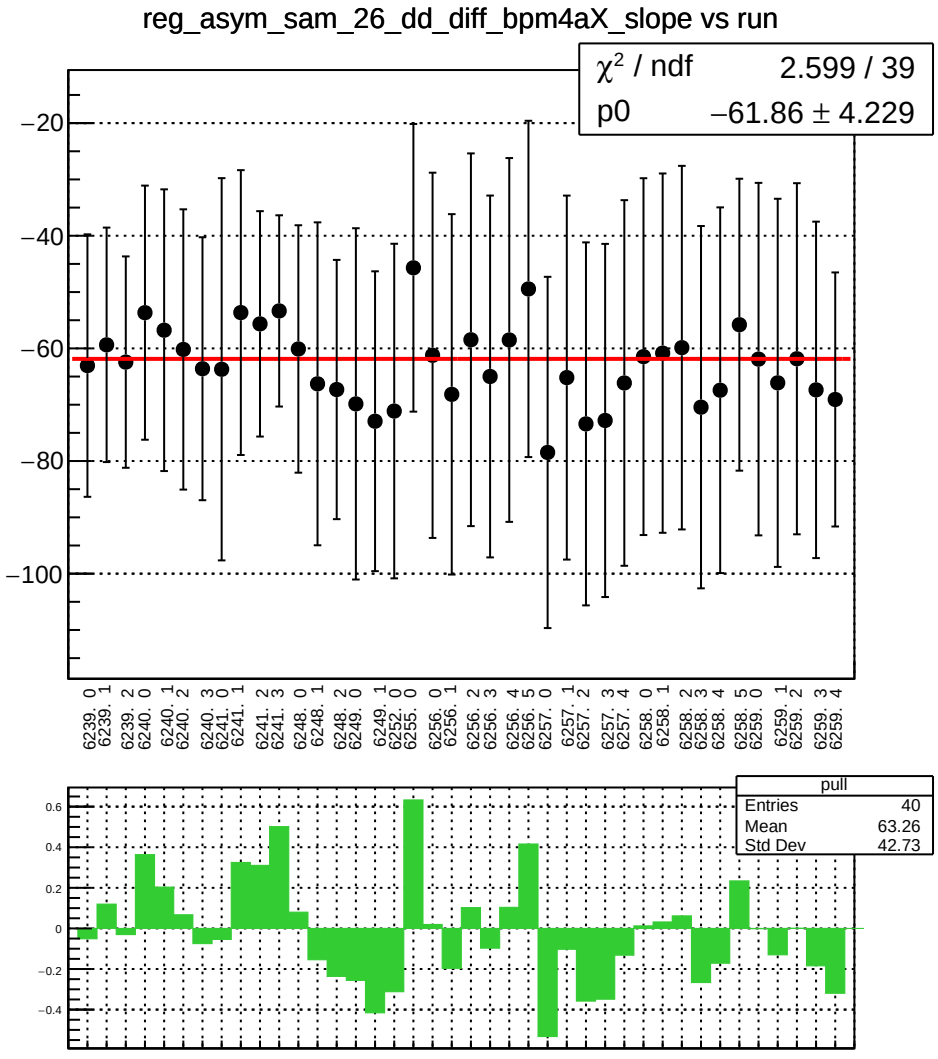

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.126 / 39
p0 −45.38 ± 2.438
pull
Entries 40
Mean −135.6
Std Dev 168.1

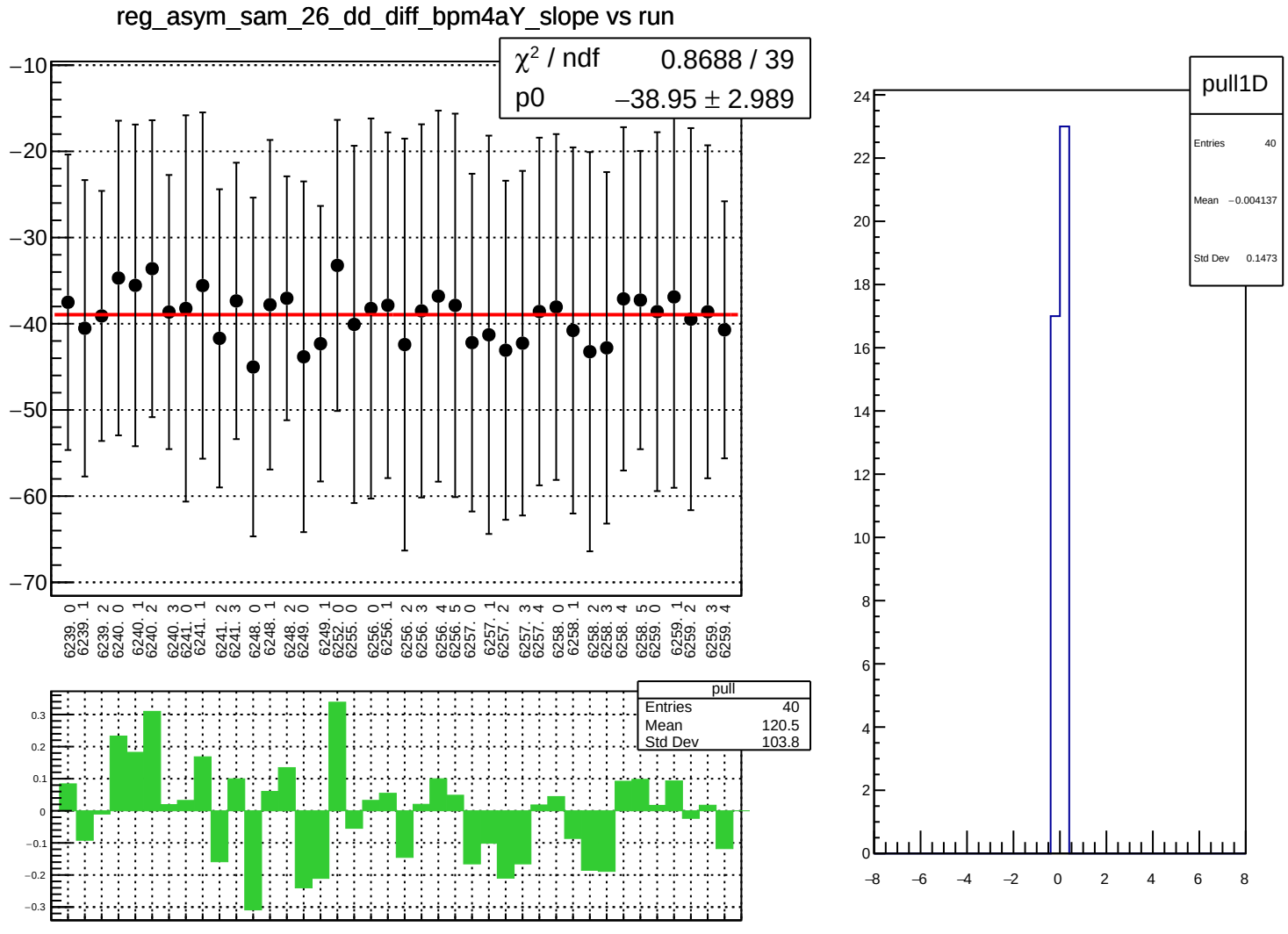

pull1D
Entries 40
Mean −0.001646
Std Dev 0.4221

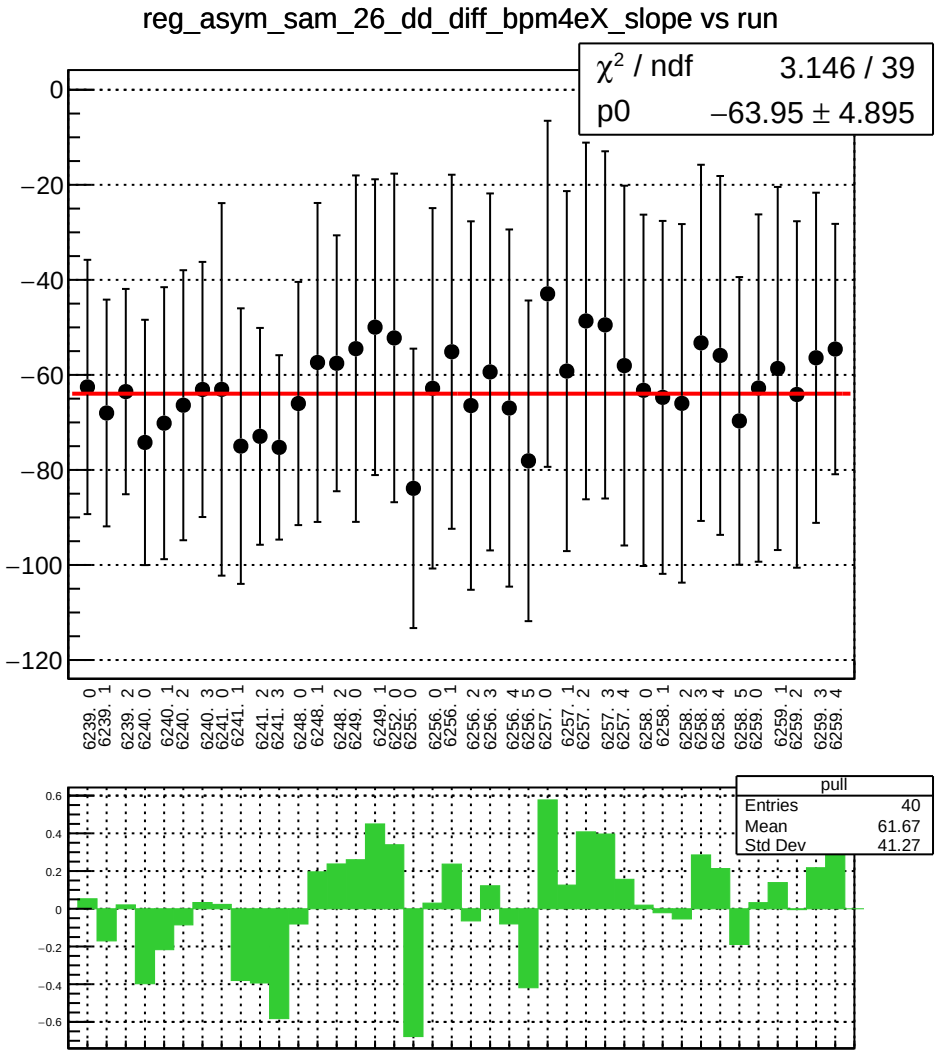

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.55 / 39
p0 −66.68 ± 1.626
−50
−60
−70
−80
−90
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −195.2
Std Dev 211.4
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.005171
Std Dev 0.5374
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

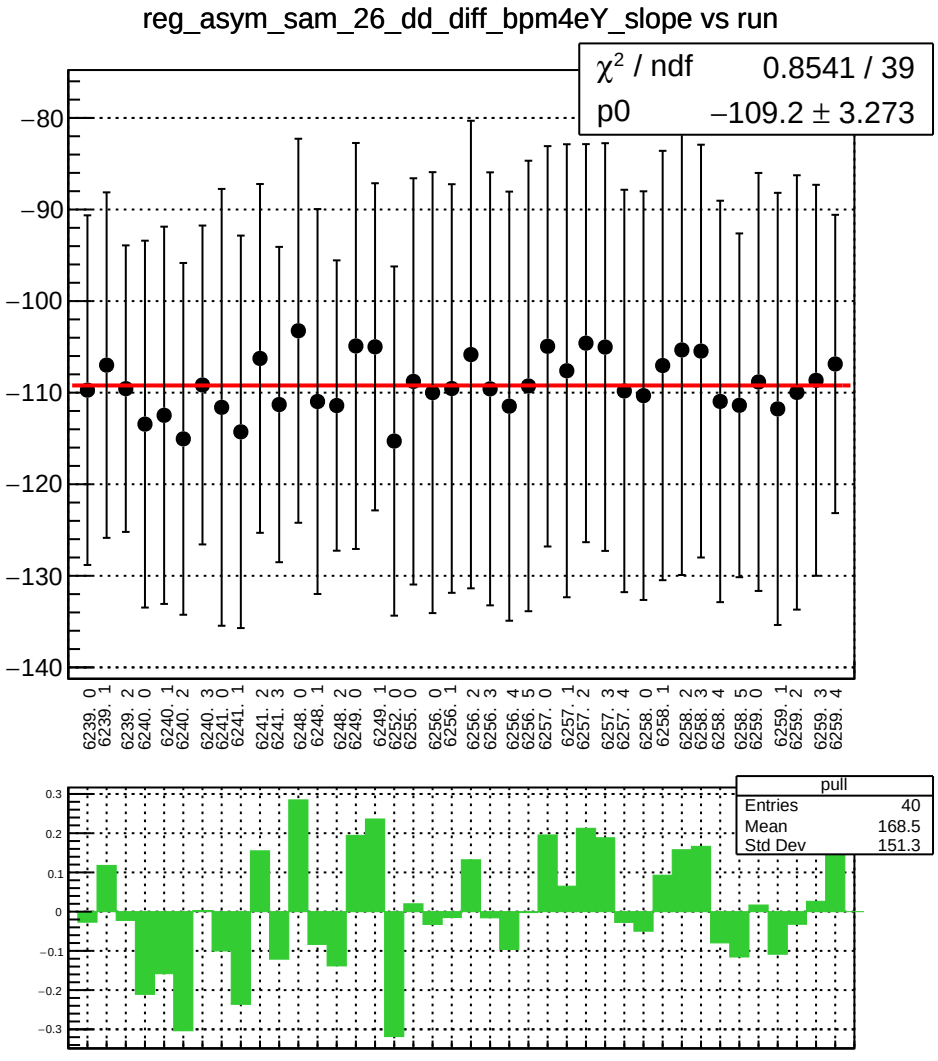

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.57 / 39
p0 −0.8742 ± 0.1152
pull
Entries 40
Mean −57.1
Std Dev 75.03

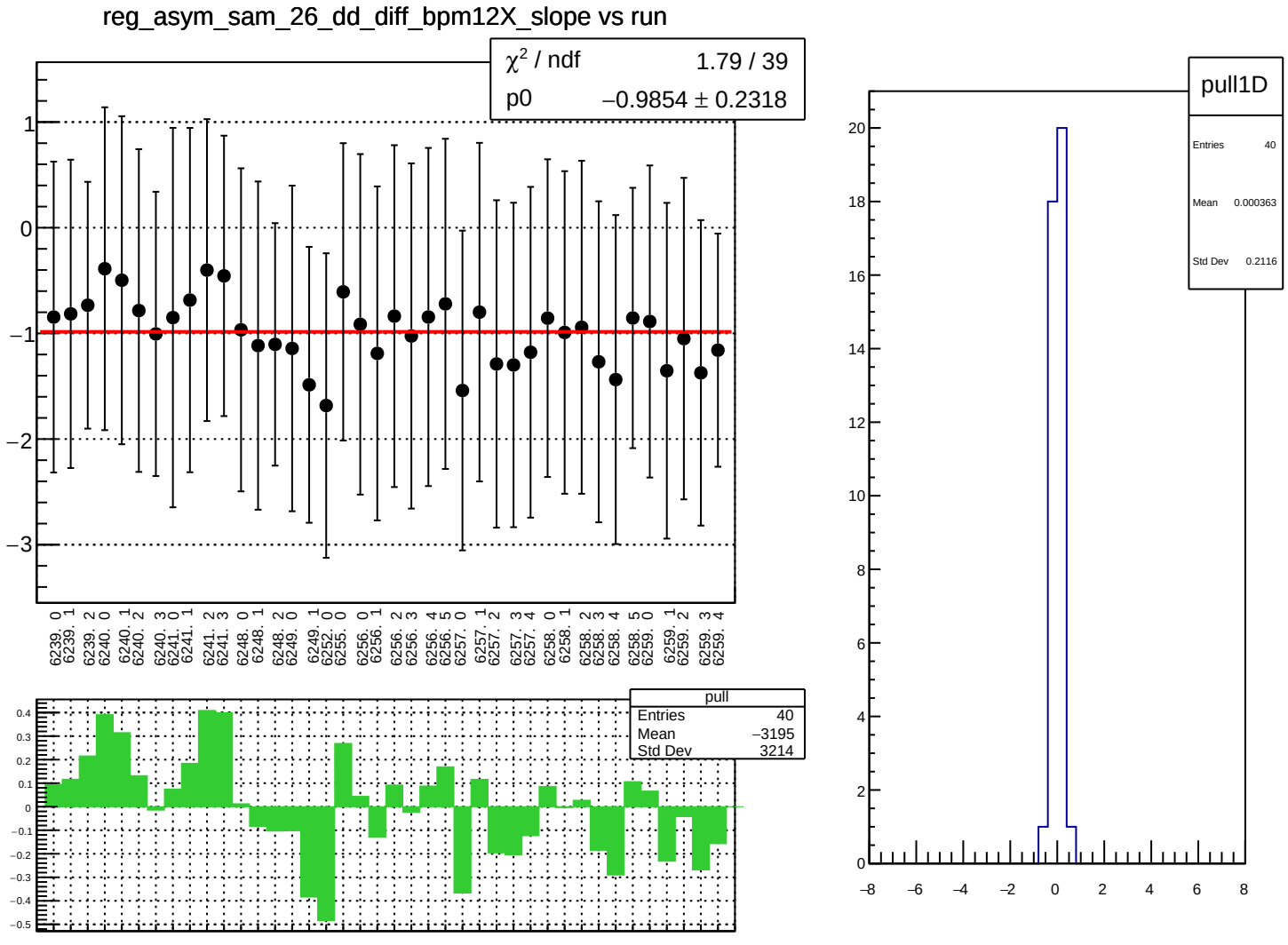

pull1D
Entries 40
Mean 0.01073
Std Dev 0.3378

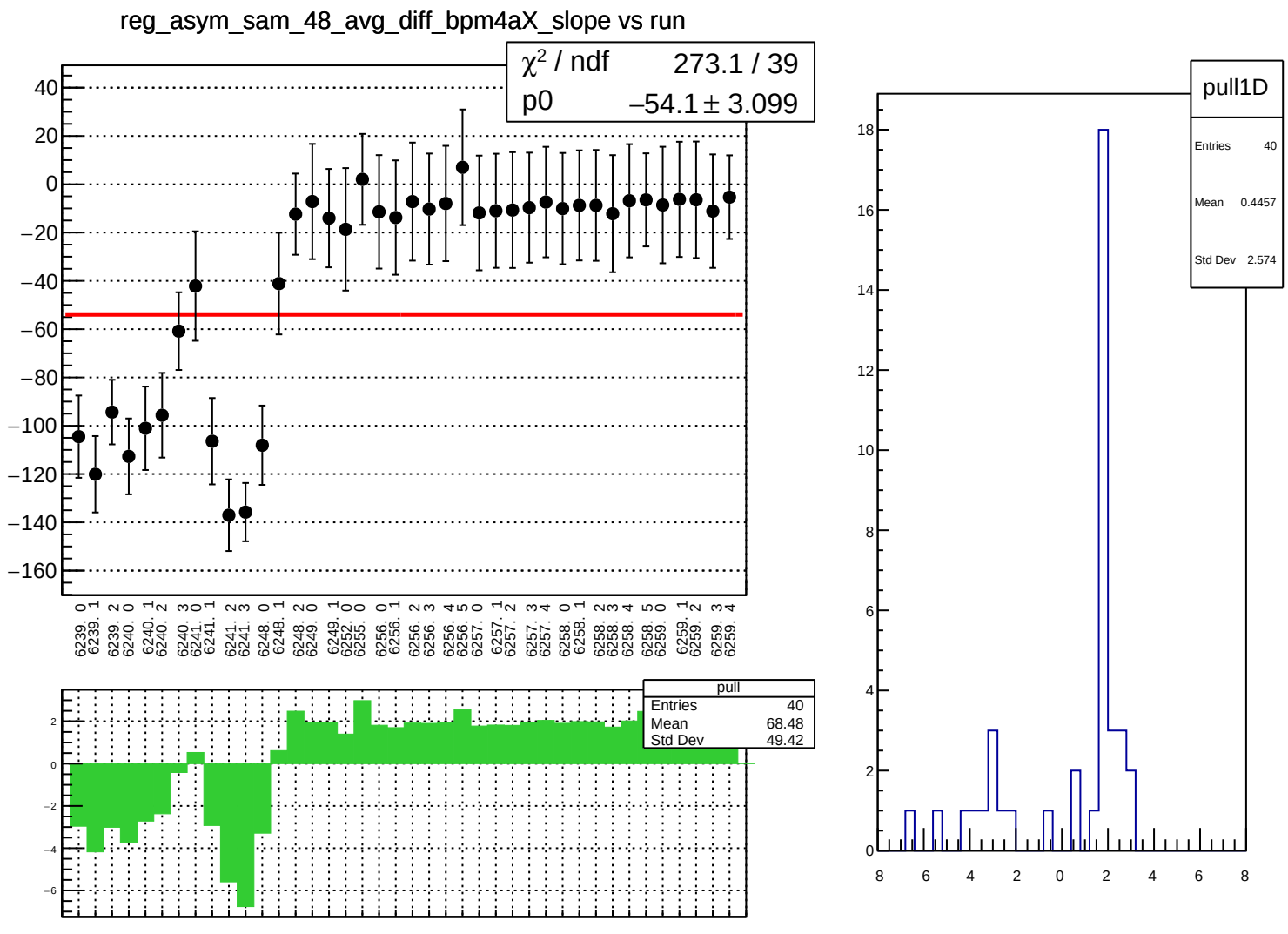

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.599 / 39
p0 −61.86 ± 4.229
−20
−40
−60
−80
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 63.26
Std Dev 42.73
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 40
Mean −0.02098
Std Dev 0.2541
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

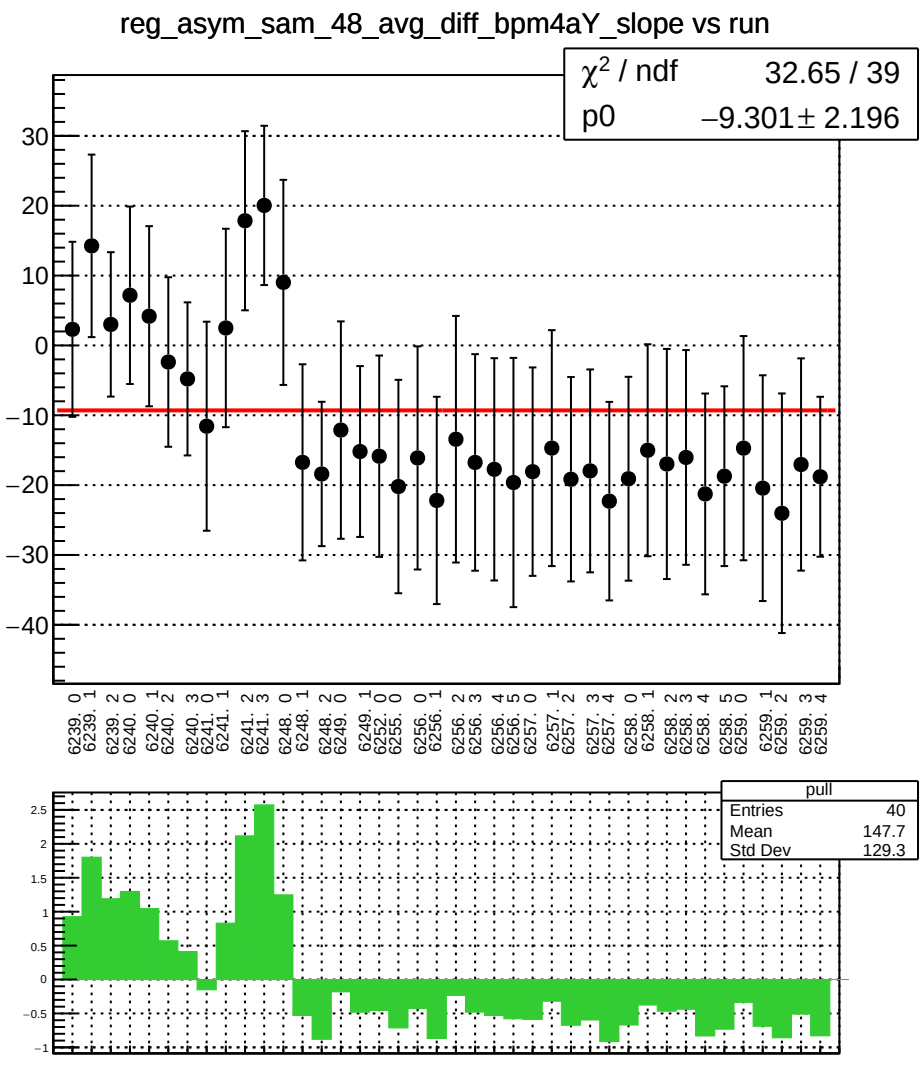

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8688 / 39
p0 −38.95 ± 2.989
−10
−20
−30
−40
−50
−60
−70
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 120.5
Std Dev 103.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 40
Mean −0.004137
Std Dev 0.1473
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

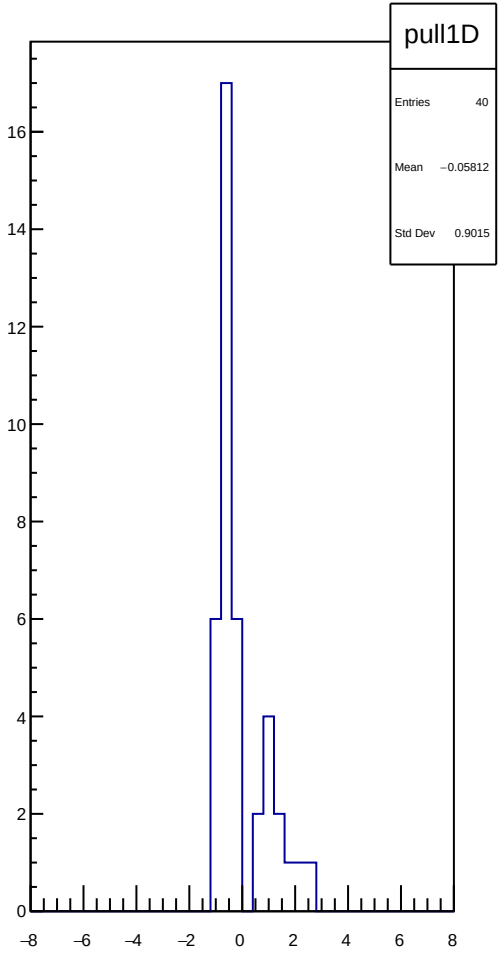

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.146 / 39
p0 −63.95 ± 4.895
pull
Entries 40
Mean 61.67
Std Dev 41.27
pull1D
Entries 40
Mean 0.02774
Std Dev 0.2791

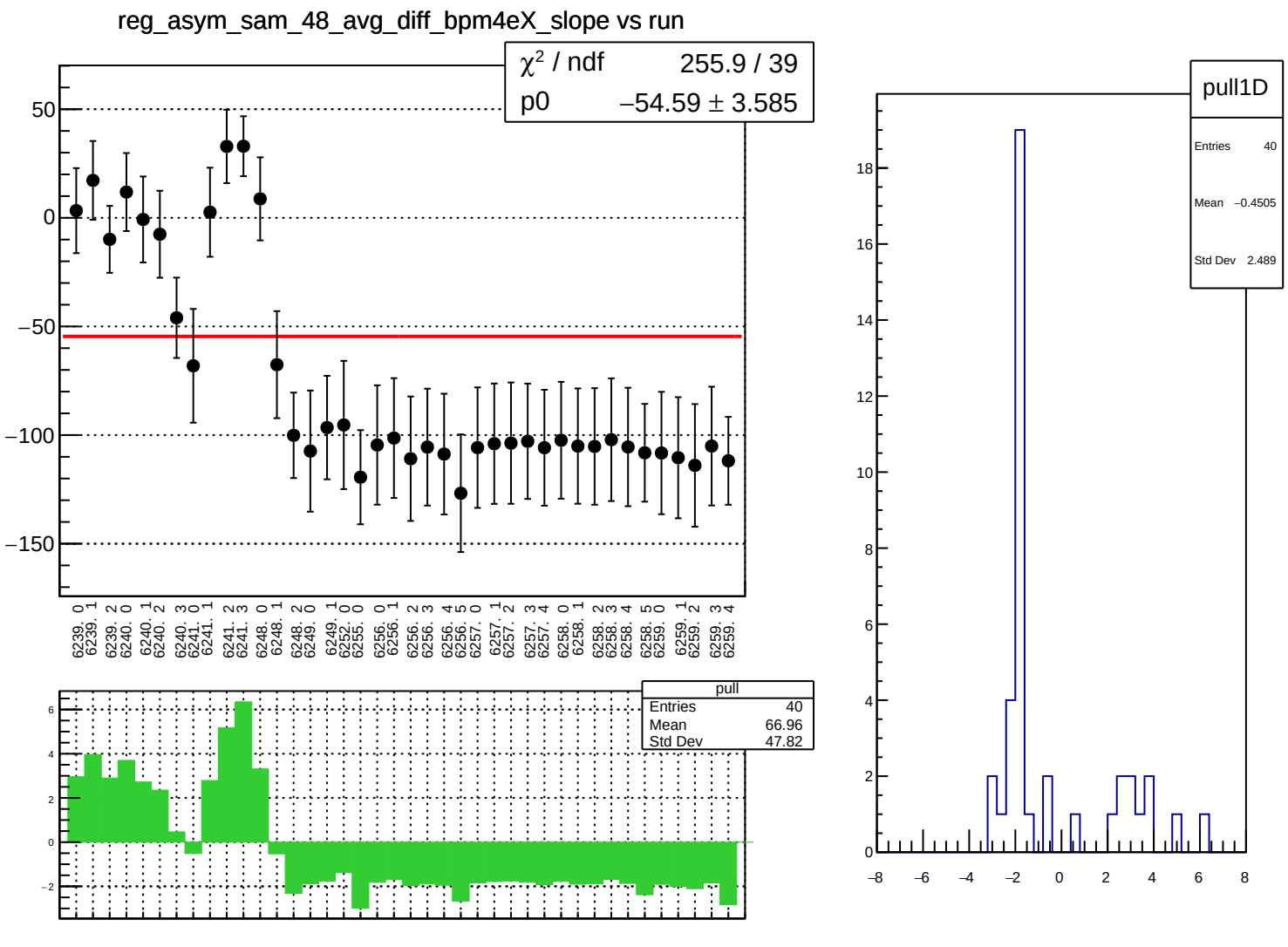

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8541 / 39
p0 −109.2 ± 3.273
−80
−90
−100
−110
−120
−130
−140
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 168.5
Std Dev 151.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 40
Mean 0.002871
Std Dev 0.1461
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

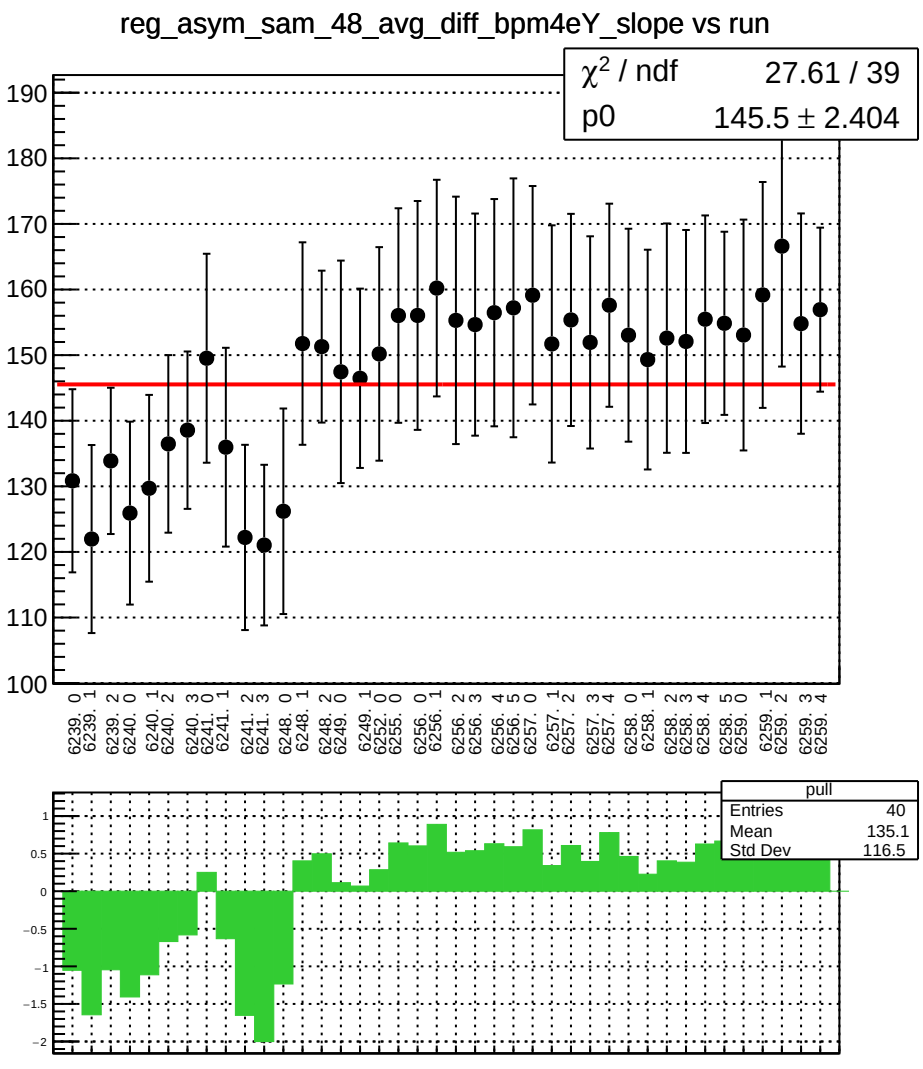

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.79 / 39
p0 −0.9854 ± 0.2318
pull
Entries 40
Mean −3195
Std Dev 3214
pull1D
Entries 40
Mean 0.000363
Std Dev 0.2116

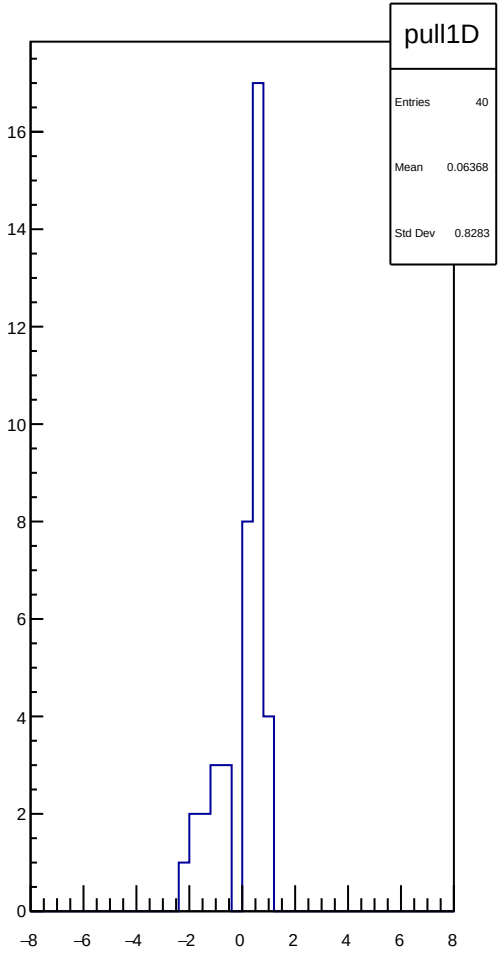

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 273.1 / 39
p0 −54.1 ± 3.099
pull
Entries 40
Mean 68.48
Std Dev 49.42
pull1D
Entries 40
Mean 0.4457
Std Dev 2.574

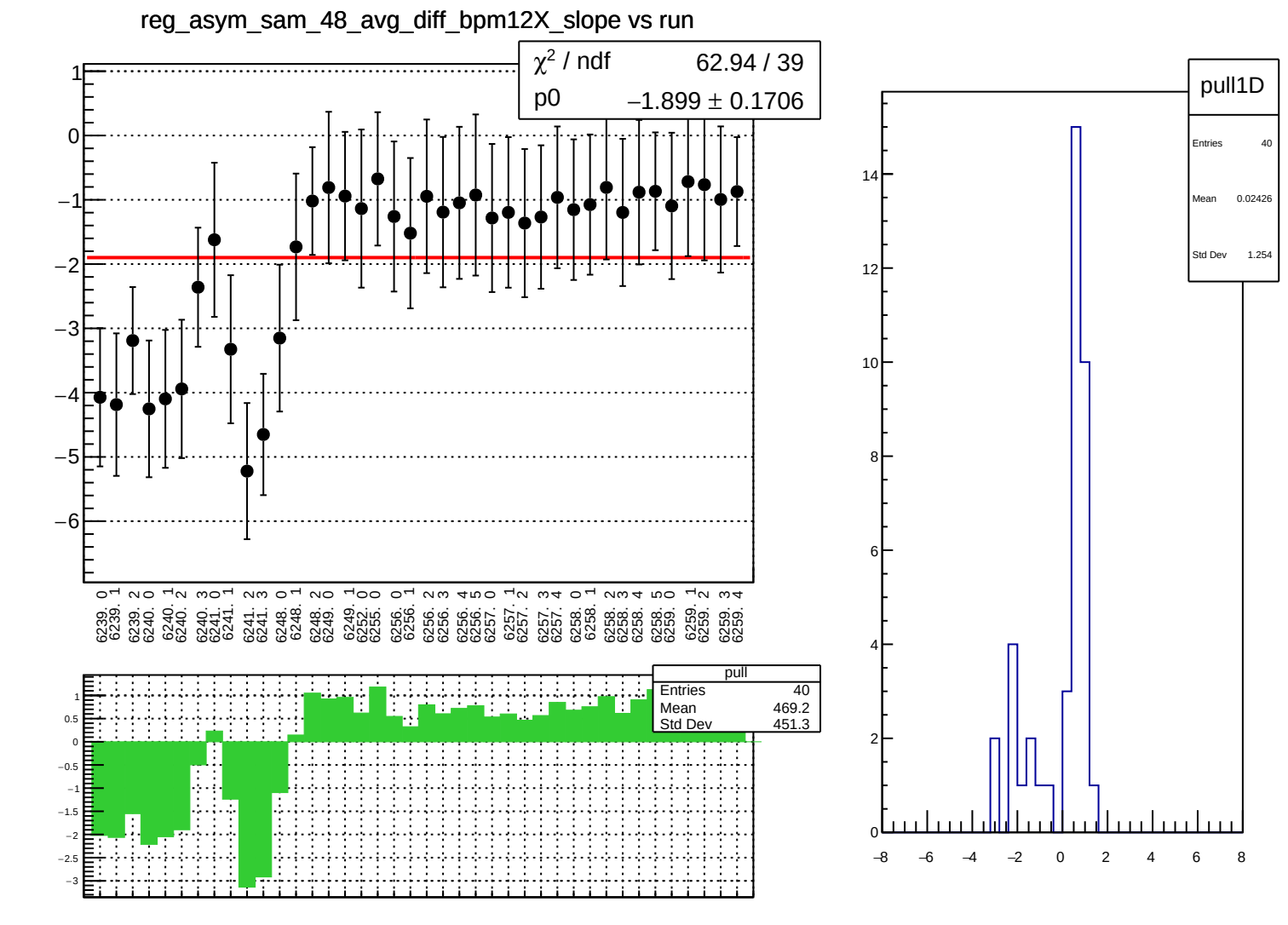

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.65 / 39
p0 −9.301 ± 2.196
pull
Entries 40
Mean 147.7
Std Dev 129.3

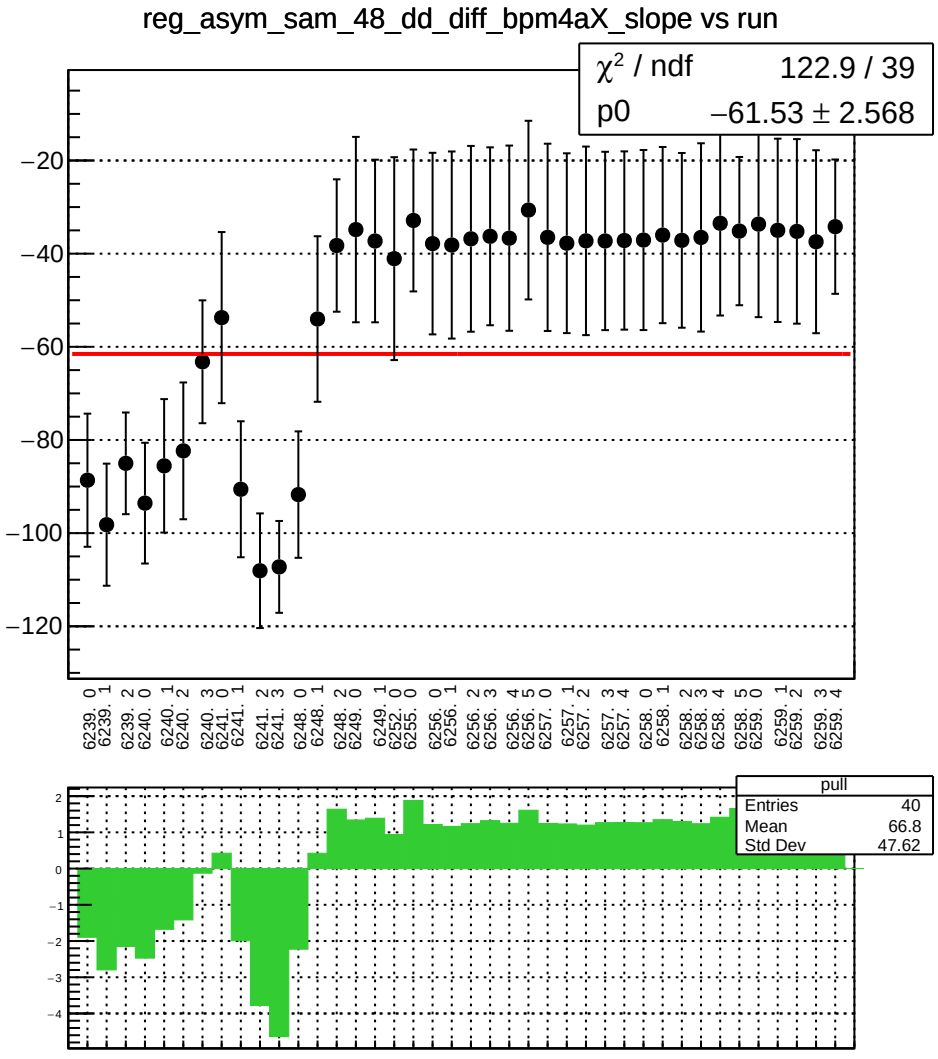

pull1D
Entries 40
Mean −0.05812
Std Dev 0.9015

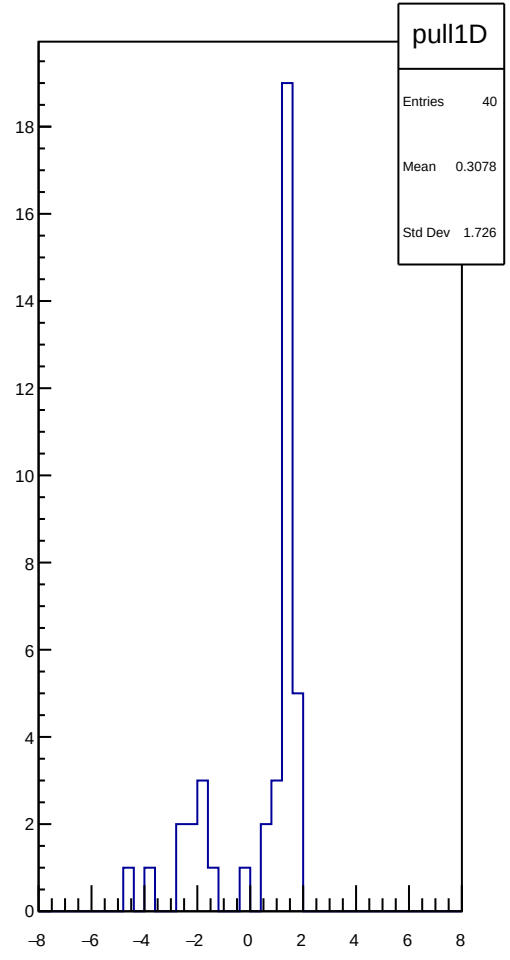

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 255.9 / 39
p0 −54.59 ± 3.585
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 66.96
Std Dev 47.82
6
4
2
0
−2
pull1D
Entries 40
Mean −0.4505
Std Dev 2.489
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

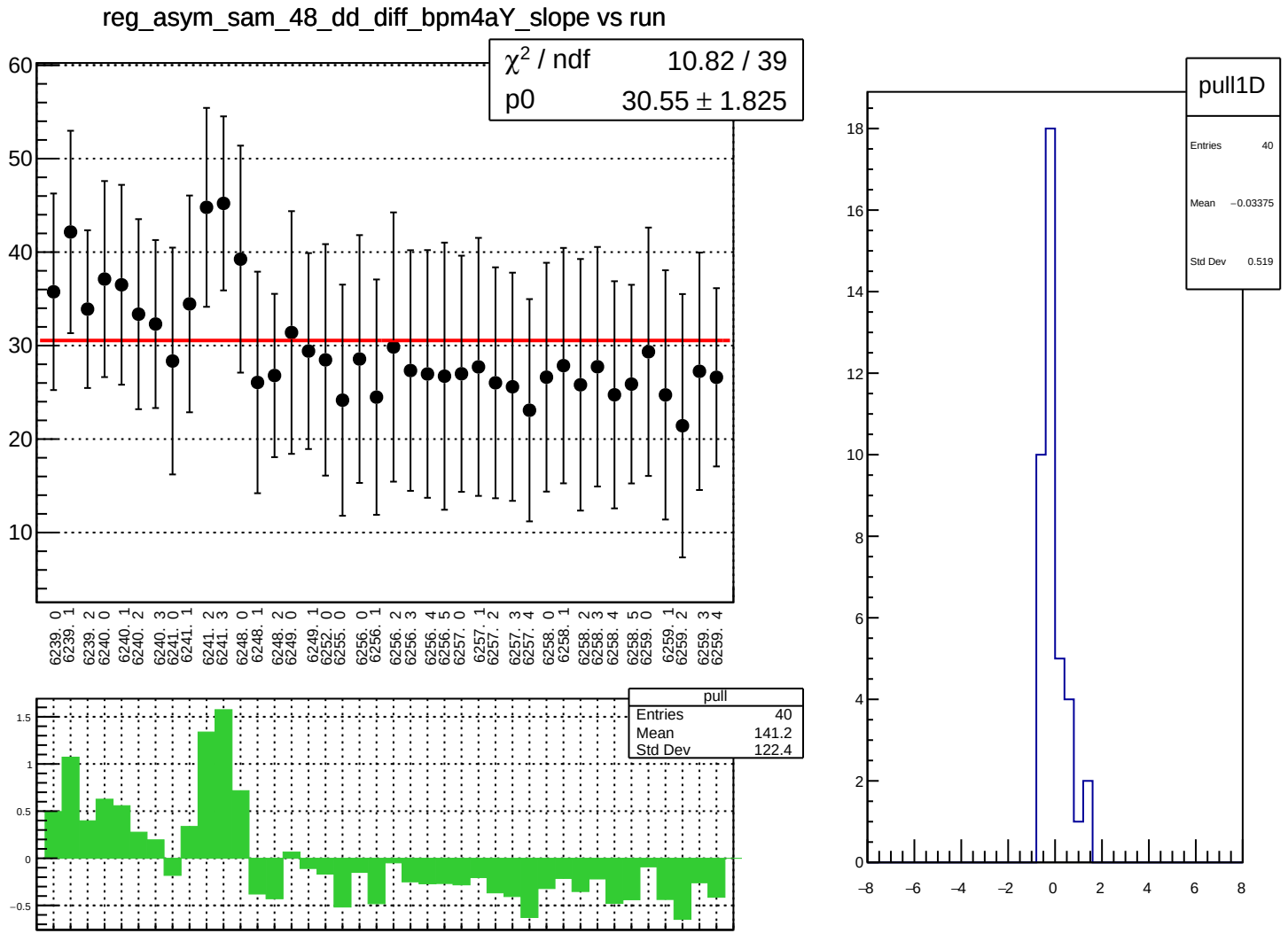

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.61 / 39
p0 145.5 ± 2.404
pull
Entries 40
Mean 135.1
Std Dev 116.5

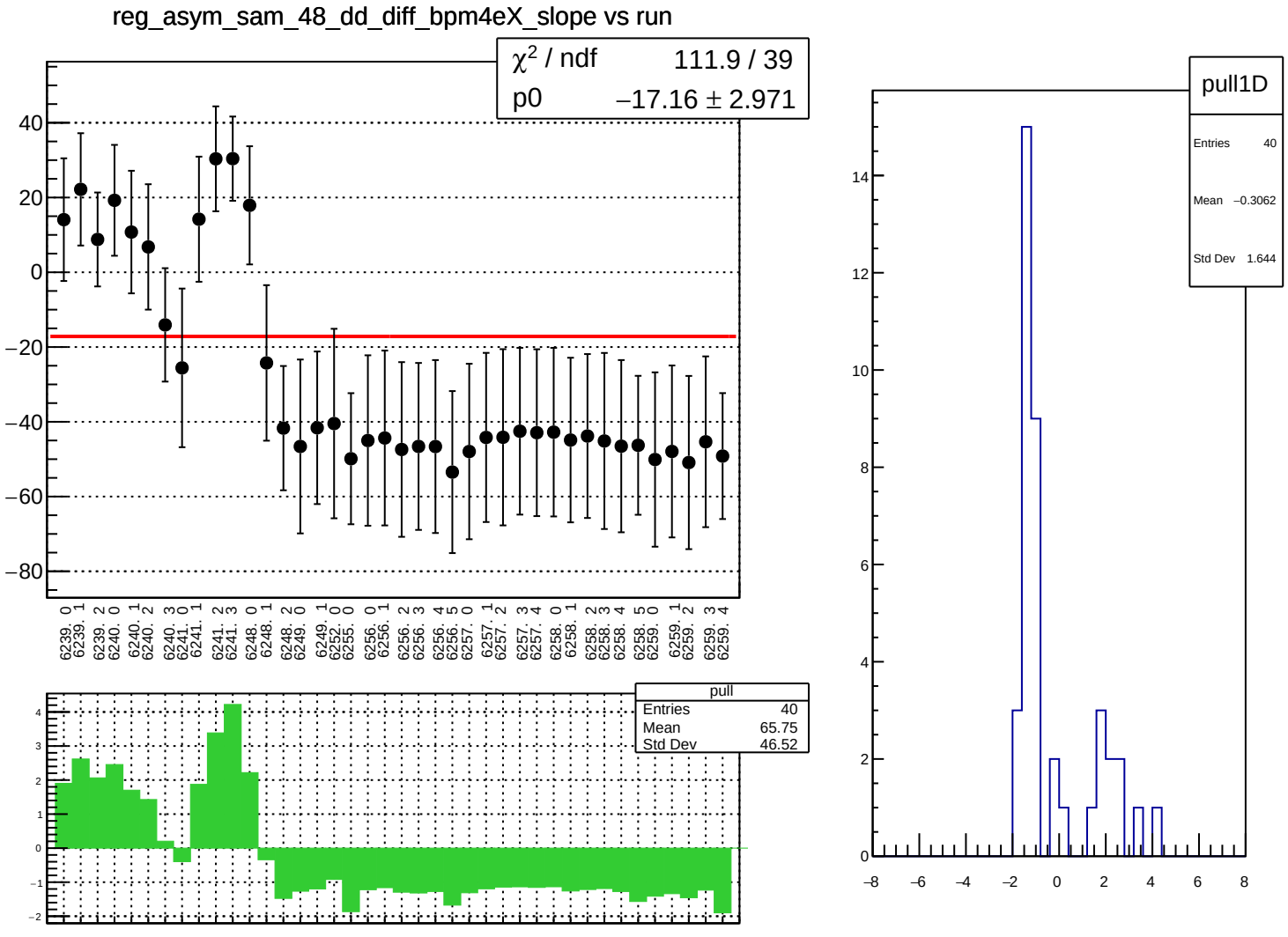

pull1D
Entries 40
Mean 0.06368
Std Dev 0.8283

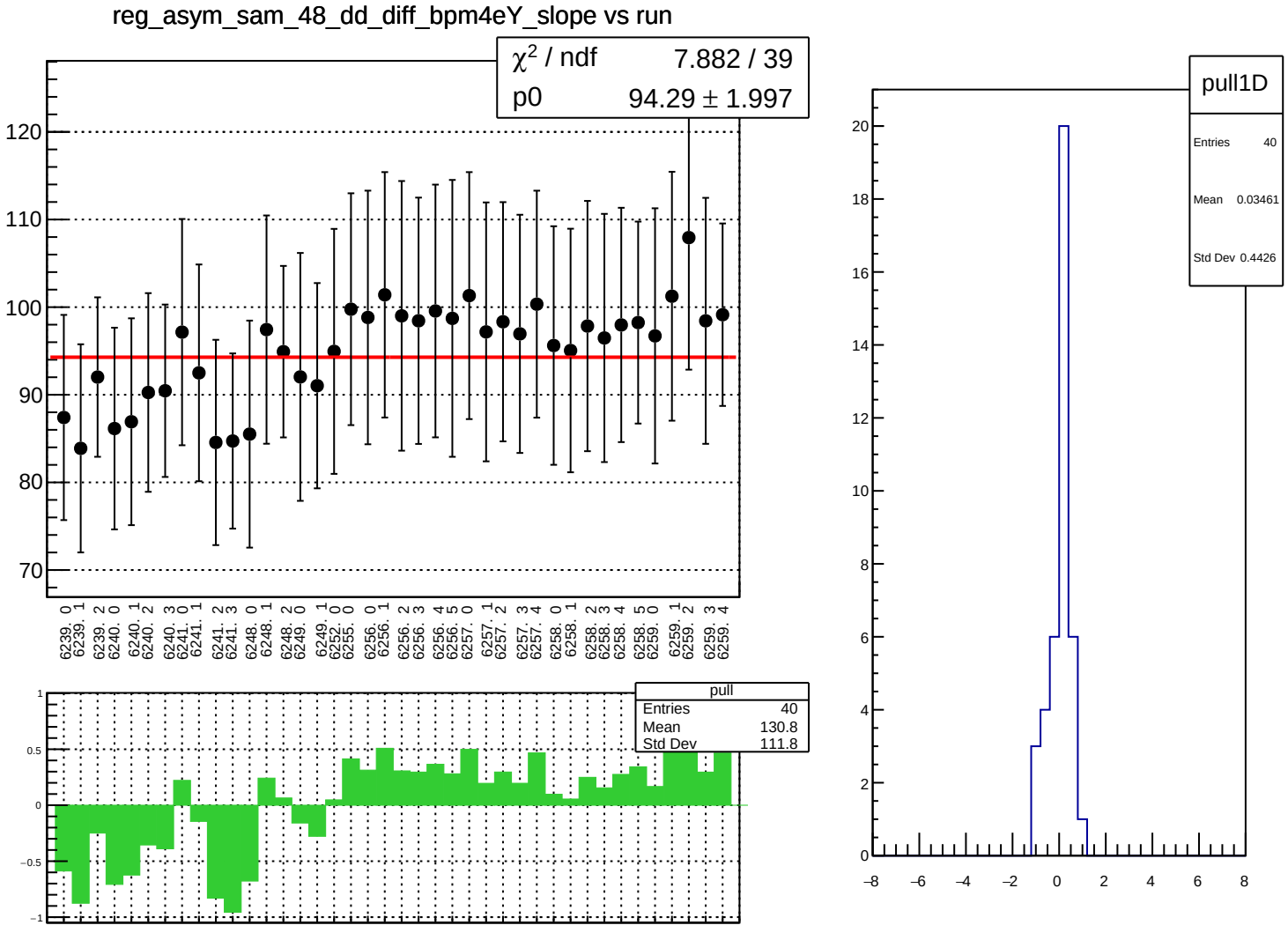

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 62.94 / 39
p0 −1.899 ± 0.1706
pull
Entries 40
Mean 469.2
Std Dev 451.3
pull1D
Entries 40
Mean 0.02426
Std Dev 1.254

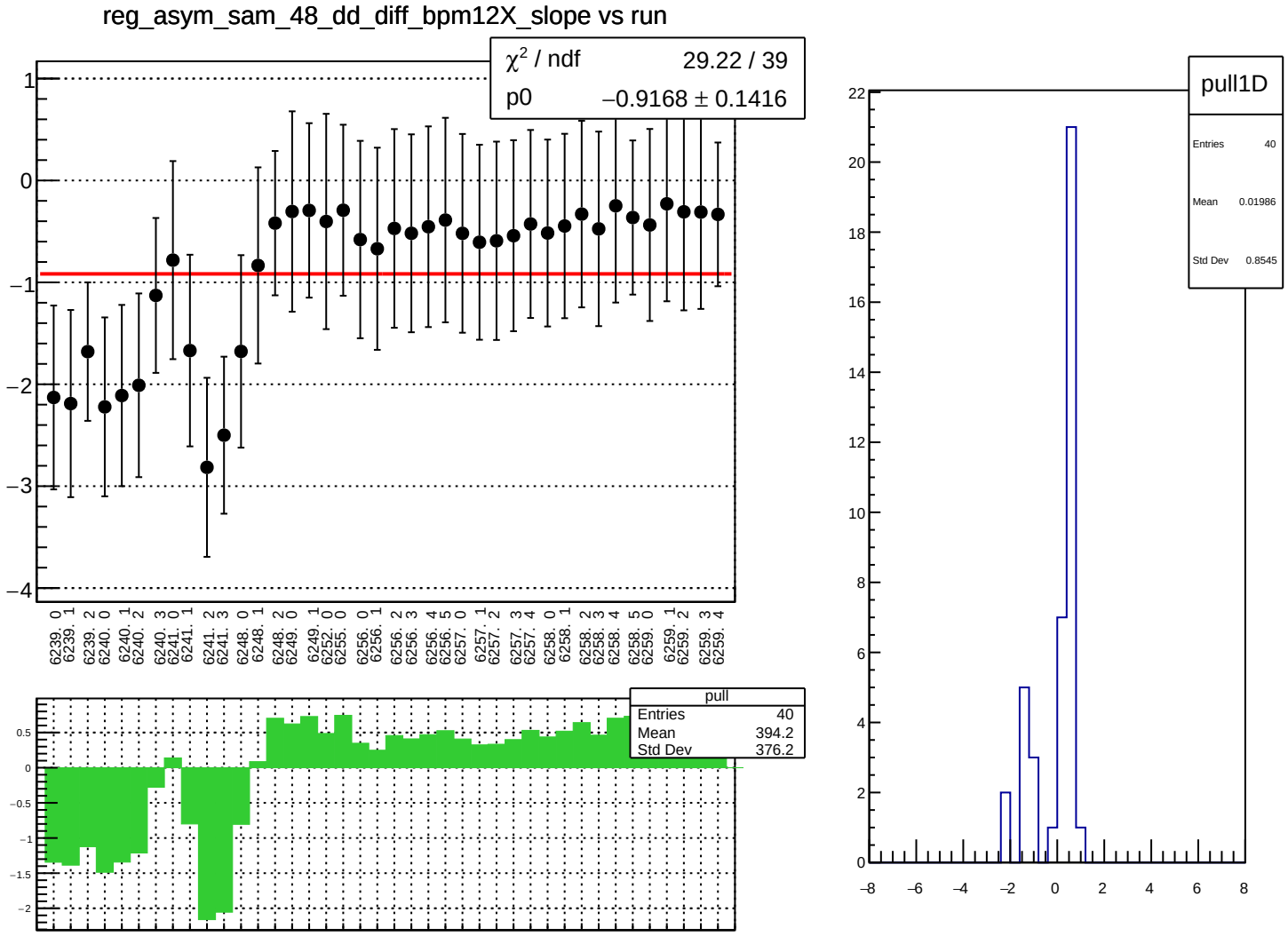

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 122.9 / 39
p0 −61.53 ± 2.568
pull
Entries 40
Mean 66.8
Std Dev 47.62

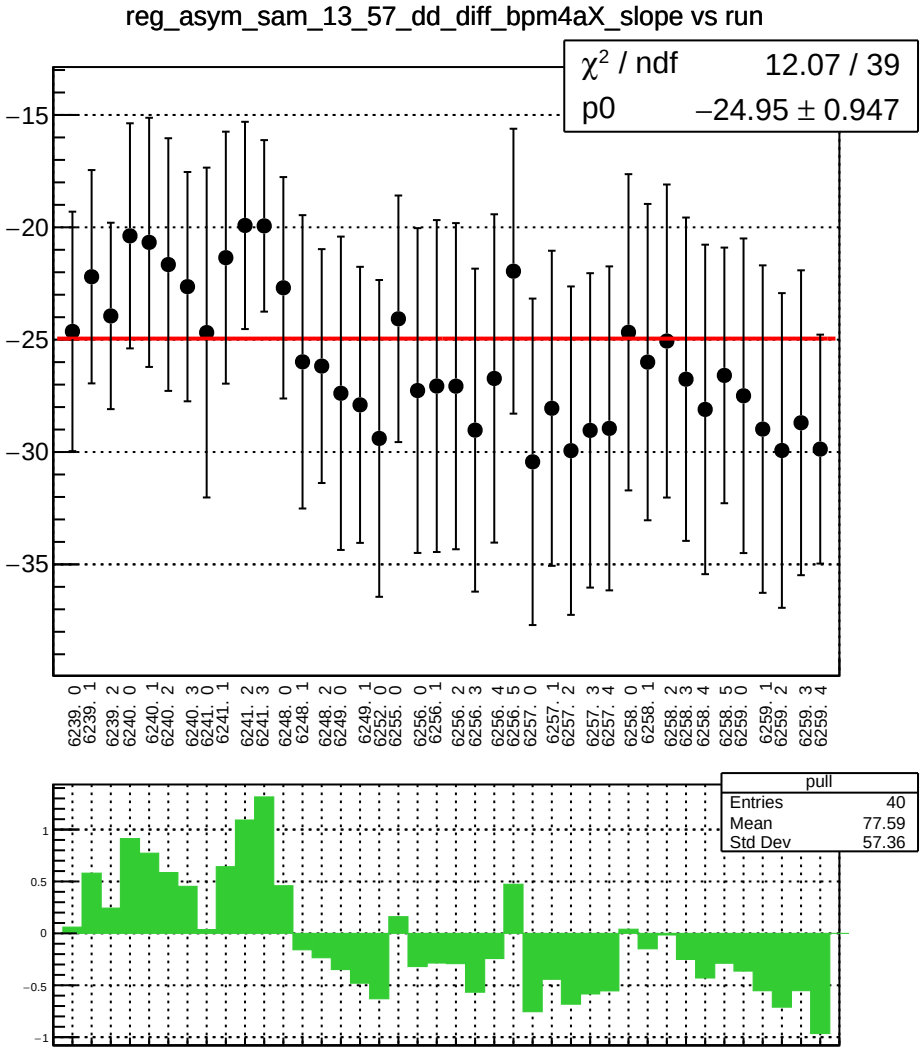

pull1D
Entries 40
Mean 0.3078
Std Dev 1.726

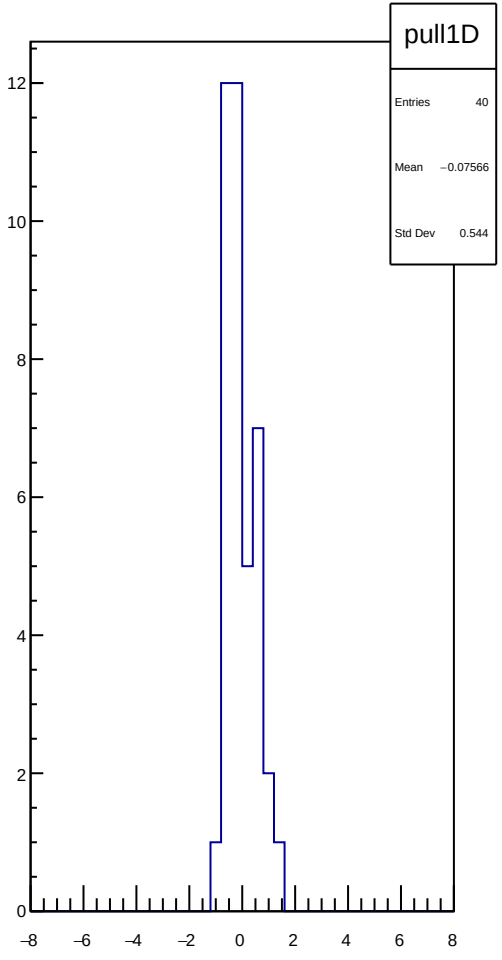

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.82 / 39
p0 30.55 ± 1.825
pull
Entries 40
Mean 141.2
Std Dev 122.4
pull1D
Entries 40
Mean −0.03375
Std Dev 0.519

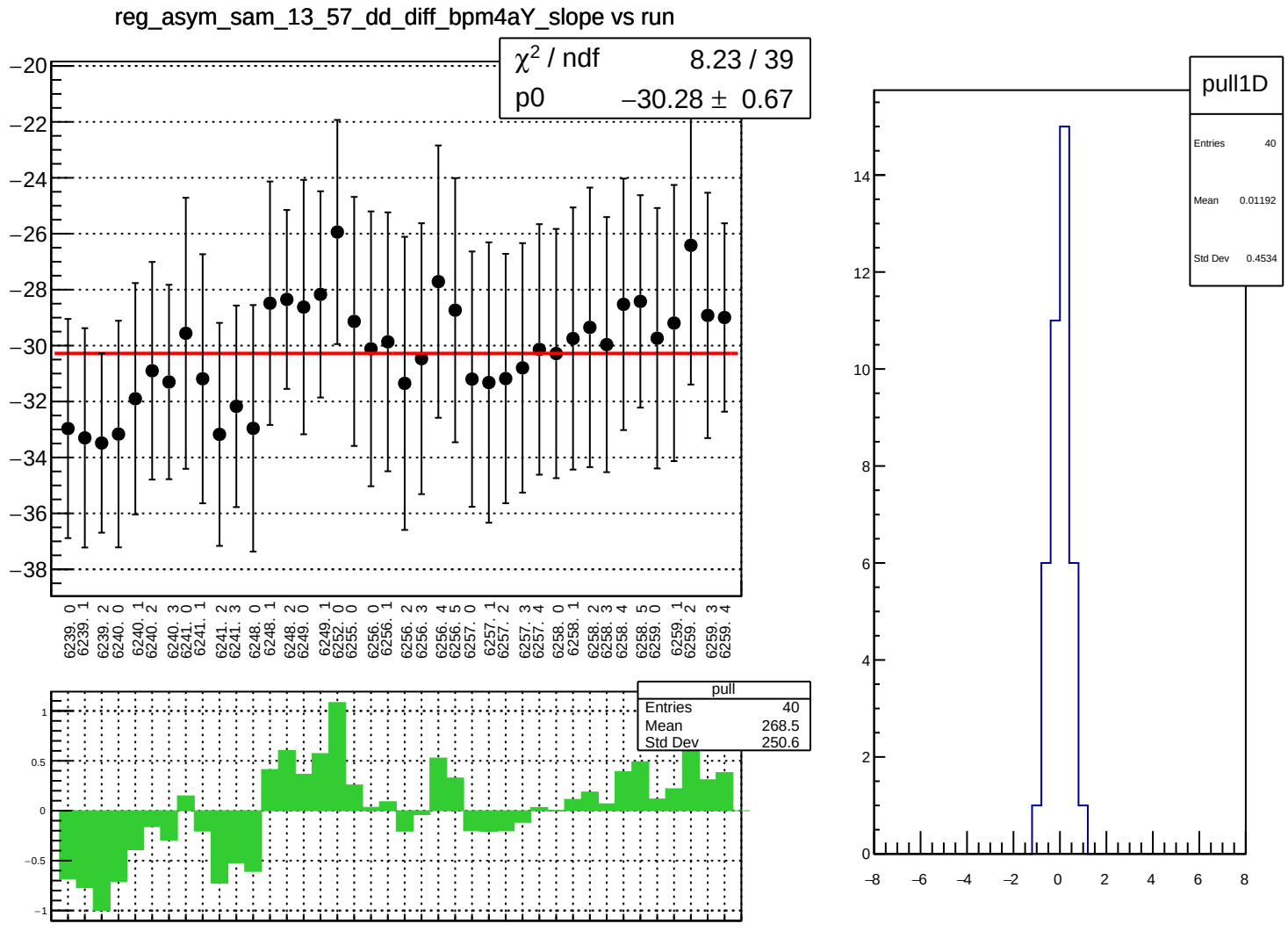

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.9 / 39
p0 −17.16 ± 2.971
pull
Entries 40
Mean 65.75
Std Dev 46.52
pull1D
Entries 40
Mean −0.3062
Std Dev 1.644

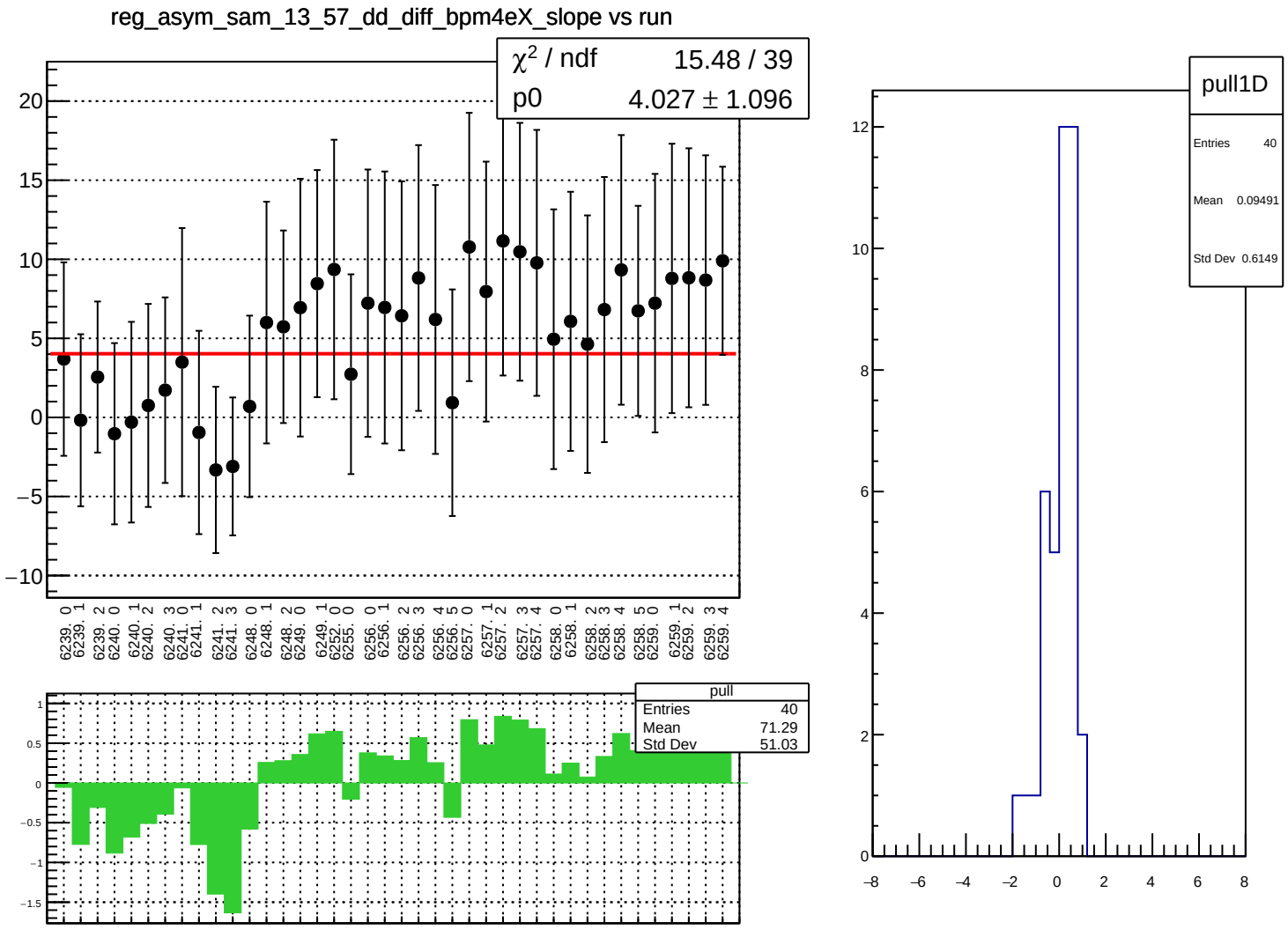

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.882 / 39
p0 94.29 ± 1.997
120
110
100
90
80
70
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 130.8
Std Dev 111.8
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean 0.03461
Std Dev 0.4426
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

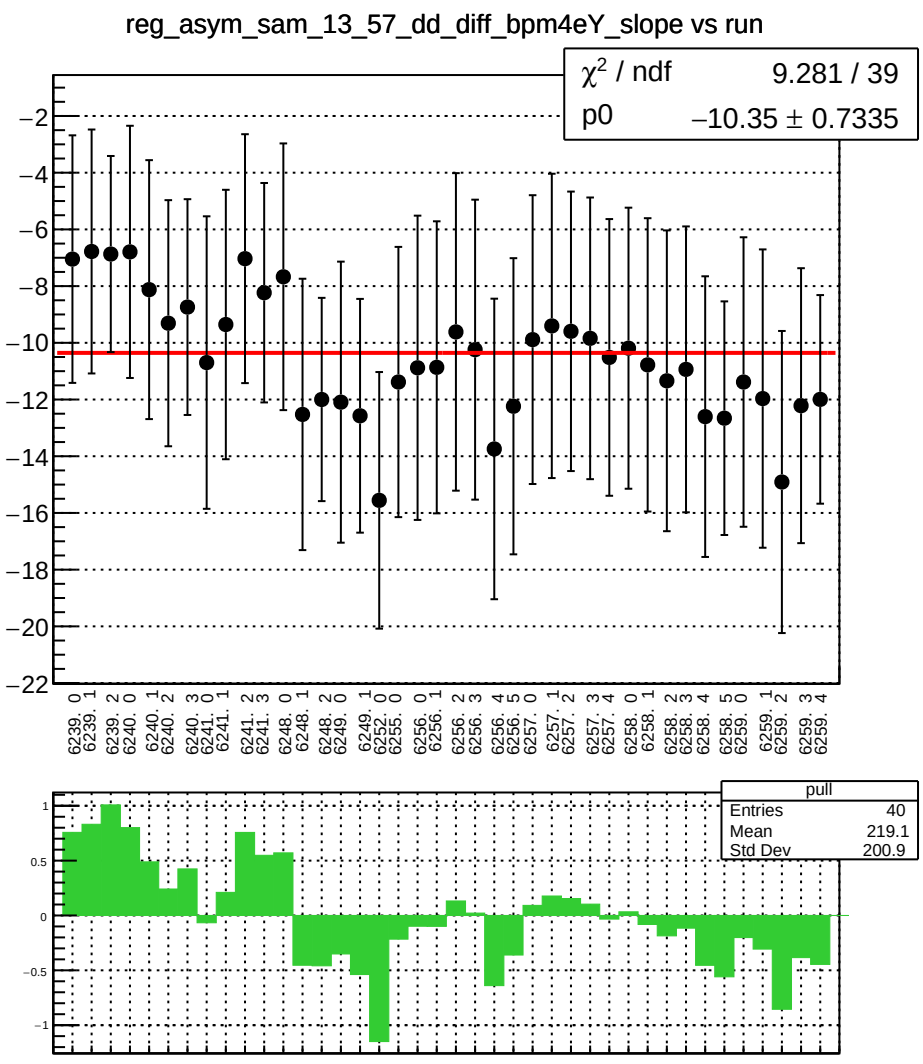

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 29.22 / 39
p0 −0.9168 ± 0.1416
pull
Entries 40
Mean 394.2
Std Dev 376.2
pull1D
Entries 40
Mean 0.01986
Std Dev 0.8545

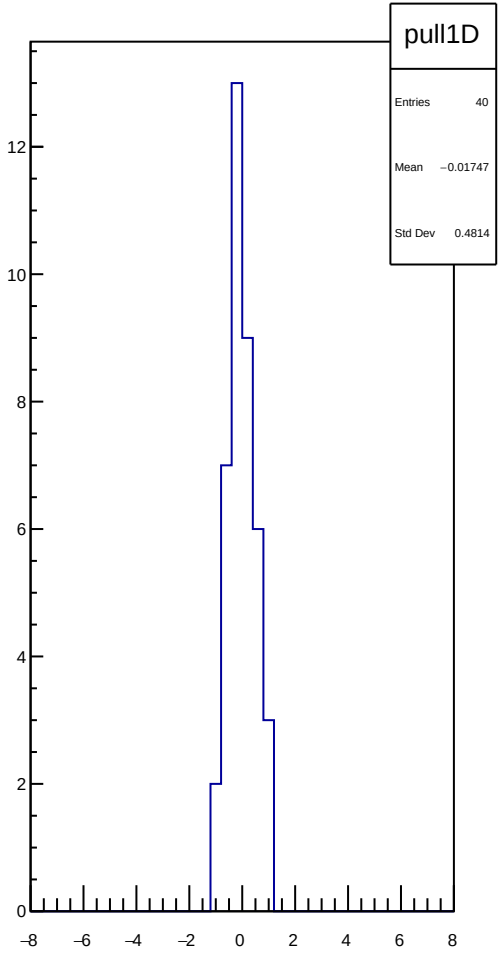

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.07 / 39
p0 −24.95 ± 0.947
−15
−20
−25
−30
−35
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 77.59
Std Dev 57.36
1
0.5
0
−0.5
−1

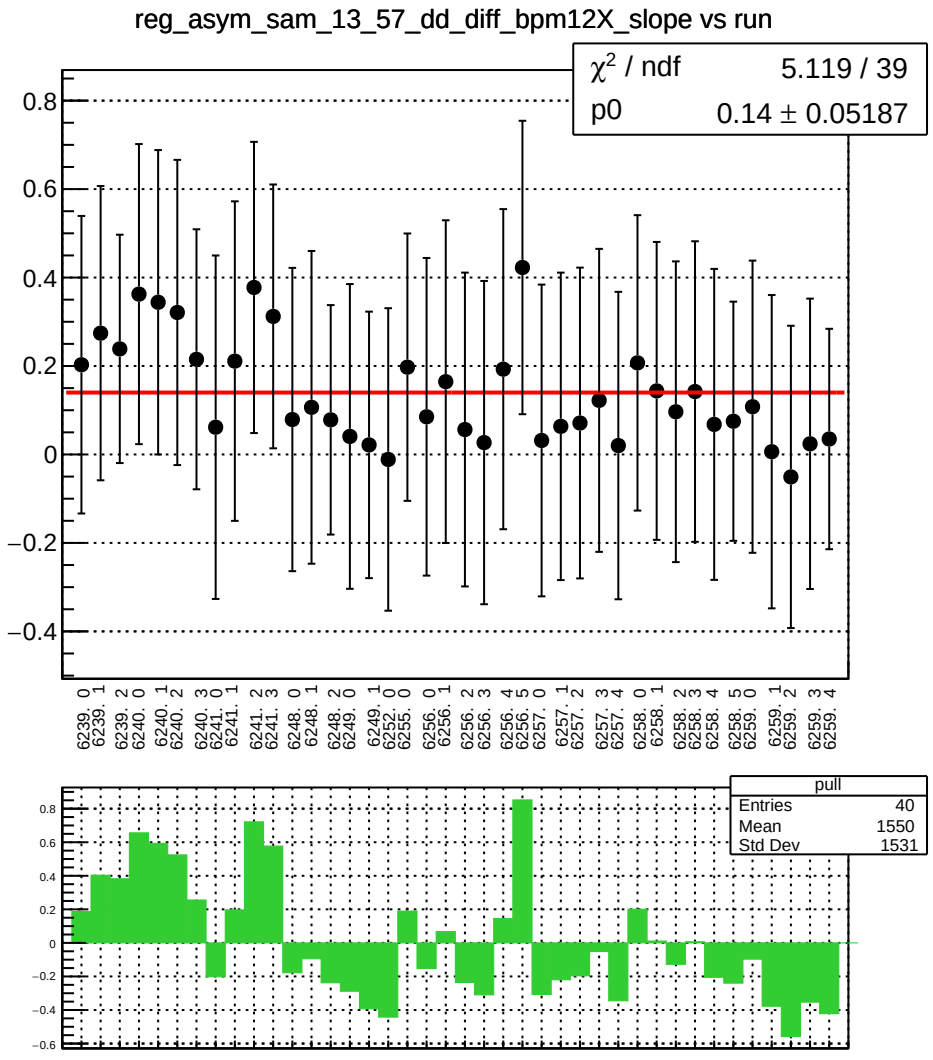

pull1D
Entries 40
Mean −0.07566
Std Dev 0.544
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

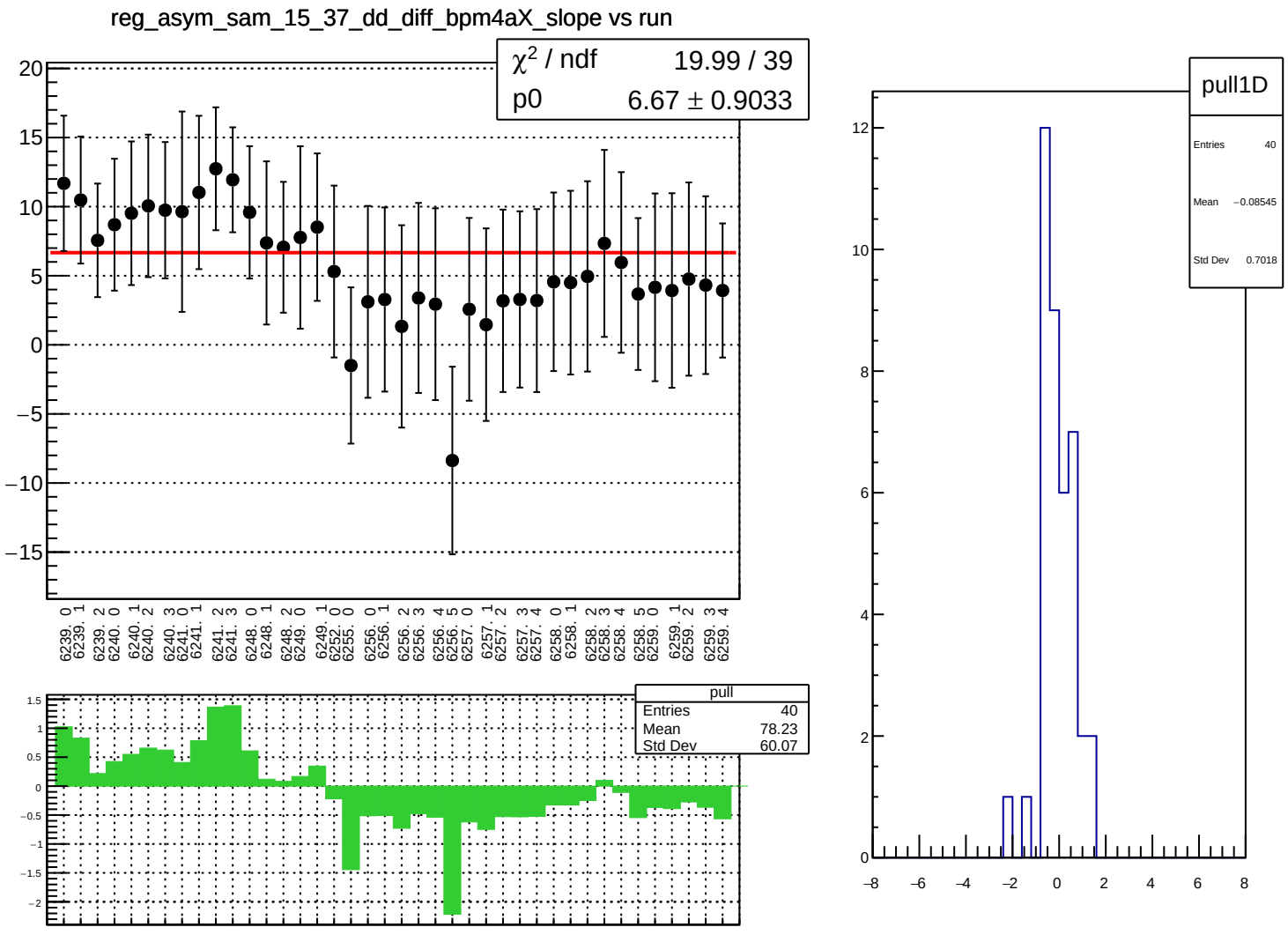

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.23 / 39
p0 −30.28 ± 0.67
pull
Entries 40
Mean 268.5
Std Dev 250.6
pull1D
Entries 40
Mean 0.01192
Std Dev 0.4534

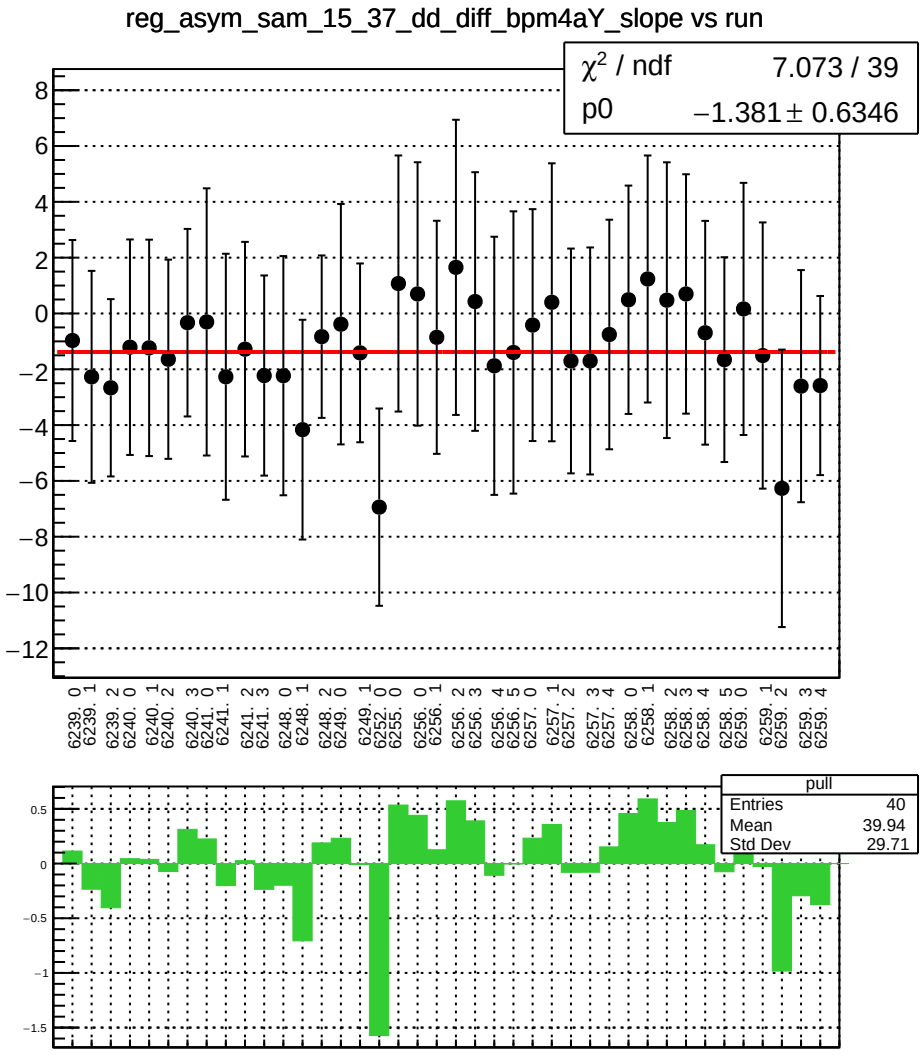

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.48 / 39
p0 4.027 ± 1.096
pull
Entries 40
Mean 71.29
Std Dev 51.03
pull1D
Entries 40
Mean 0.09491
Std Dev 0.6149

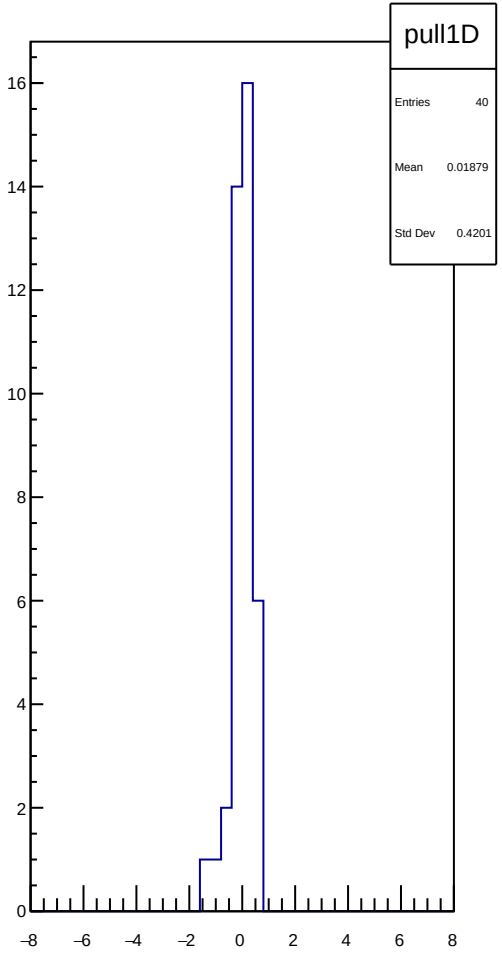

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.281 / 39
p0 −10.35 ± 0.7335
pull
Entries 40
Mean 219.1
Std Dev 200.9

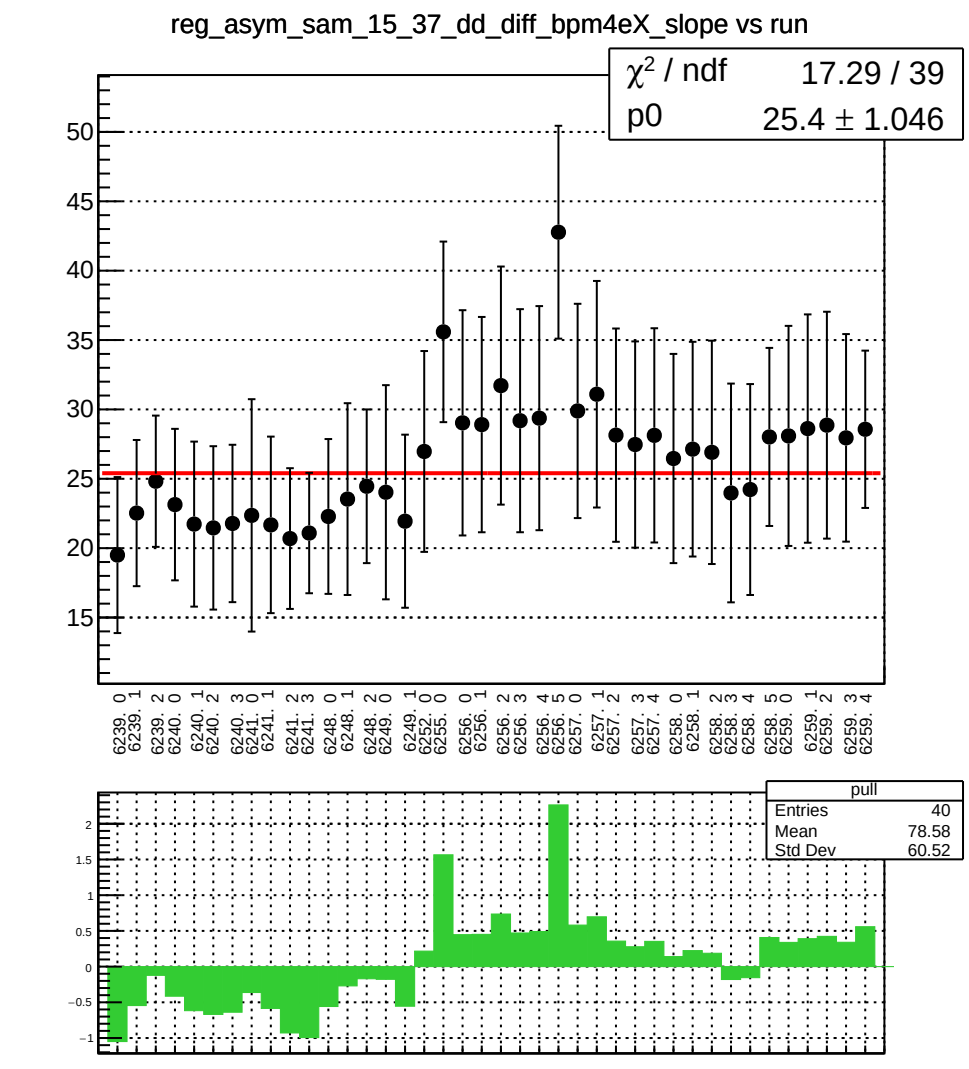

pull1D
Entries 40
Mean −0.01747
Std Dev 0.4814

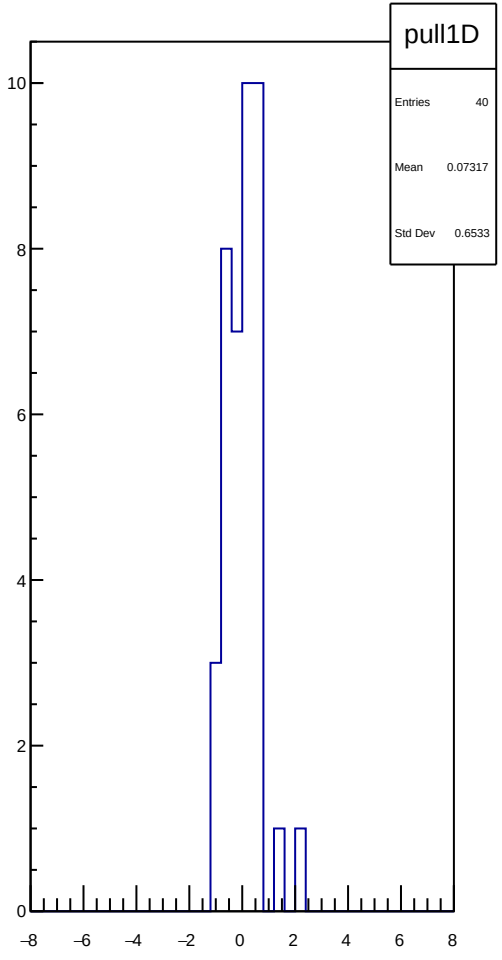

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.119 / 39
p0 0.14 ± 0.05187
pull
Entries 40
Mean 1550
Std Dev 1531
pull1D
Entries 40
Mean −0.001561
Std Dev 0.3577

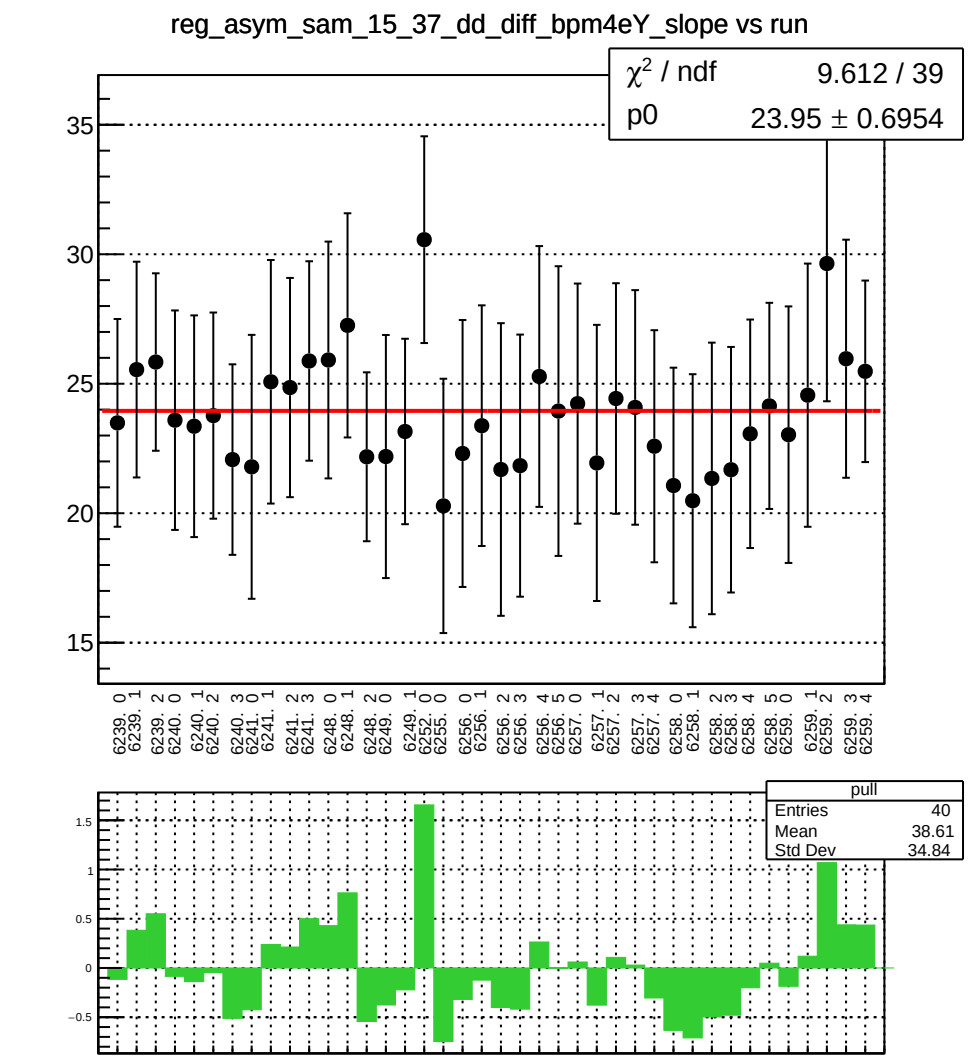

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.99 / 39
p0 6.67 ± 0.9033
pull
Entries 40
Mean 78.23
Std Dev 60.07
pull1D
Entries 40
Mean −0.08545
Std Dev 0.7018

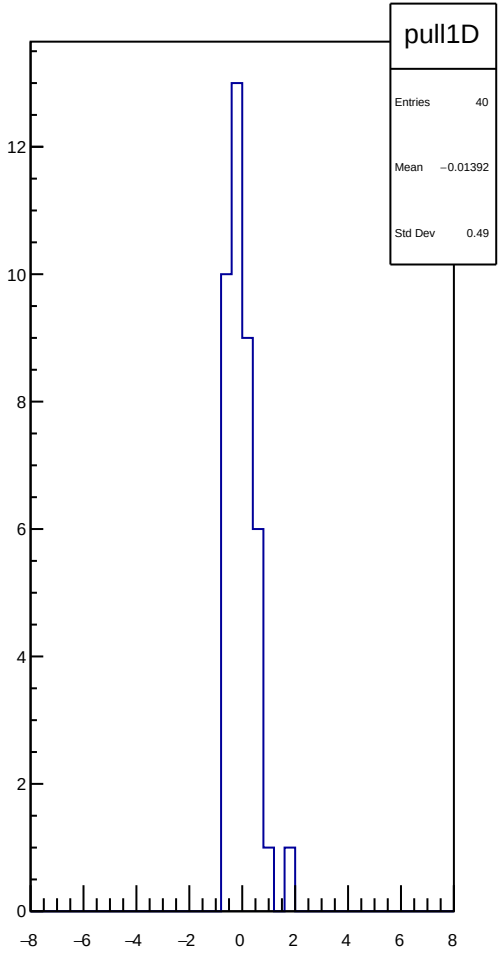

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.073 / 39
p0 −1.381 ± 0.6346
pull
Entries 40
Mean 39.94
Std Dev 29.71

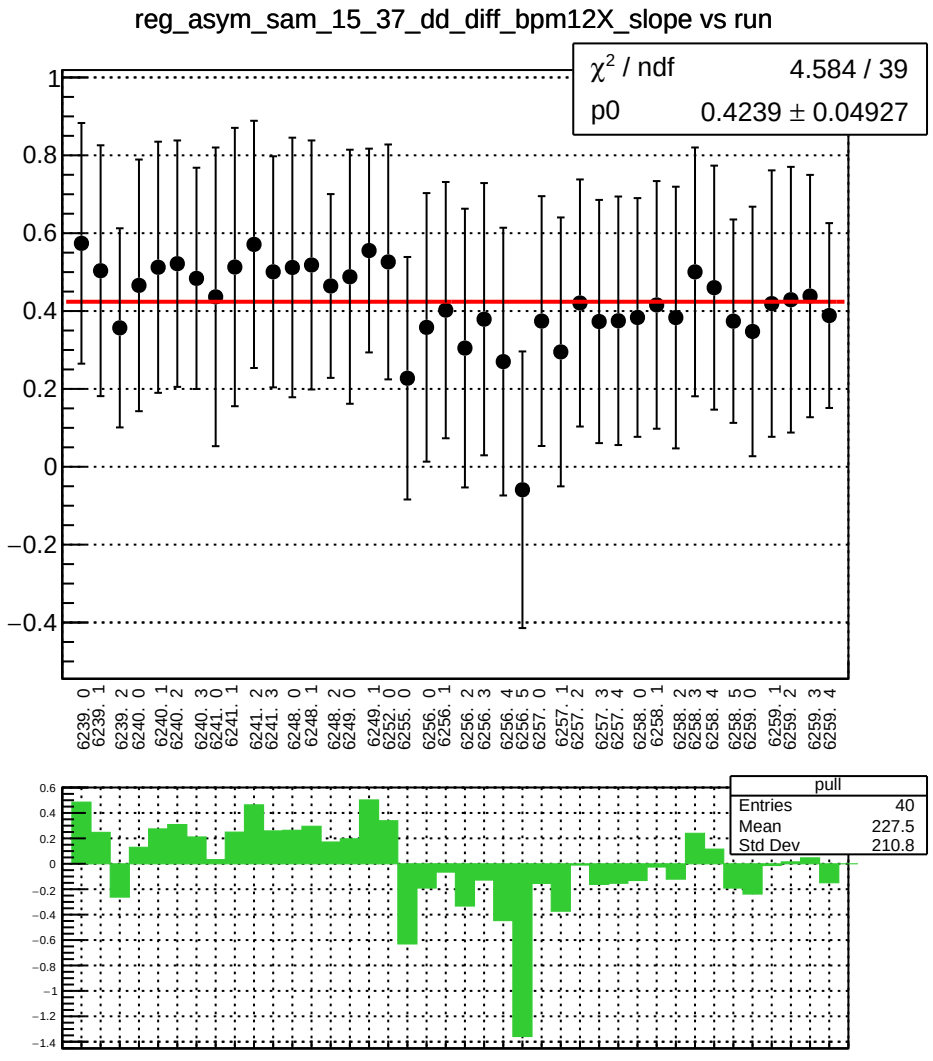

pull1D
Entries 40
Mean 0.01879
Std Dev 0.4201

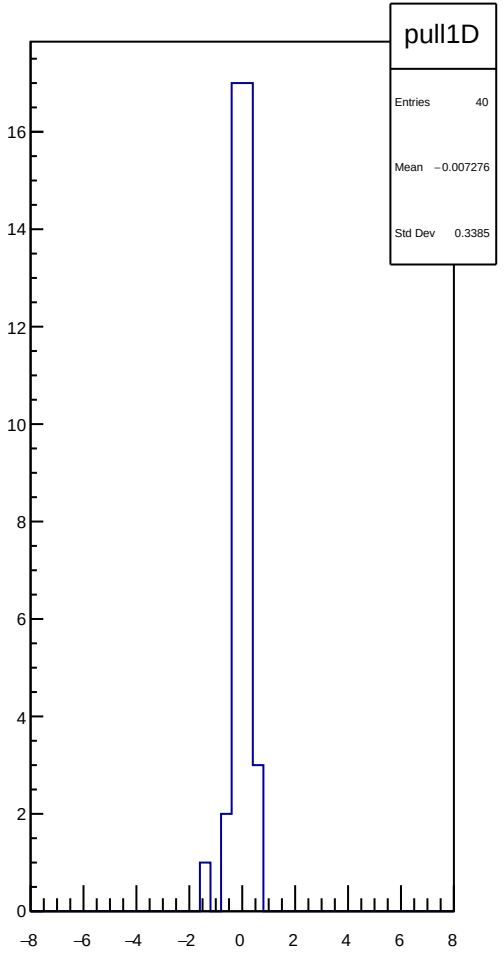

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.29 / 39
p0 25.4 ± 1.046
50
45
40
35
30
25
20
15
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 78.58
Std Dev 60.52
2
1.5
1
0.5
0
−0.5
−1

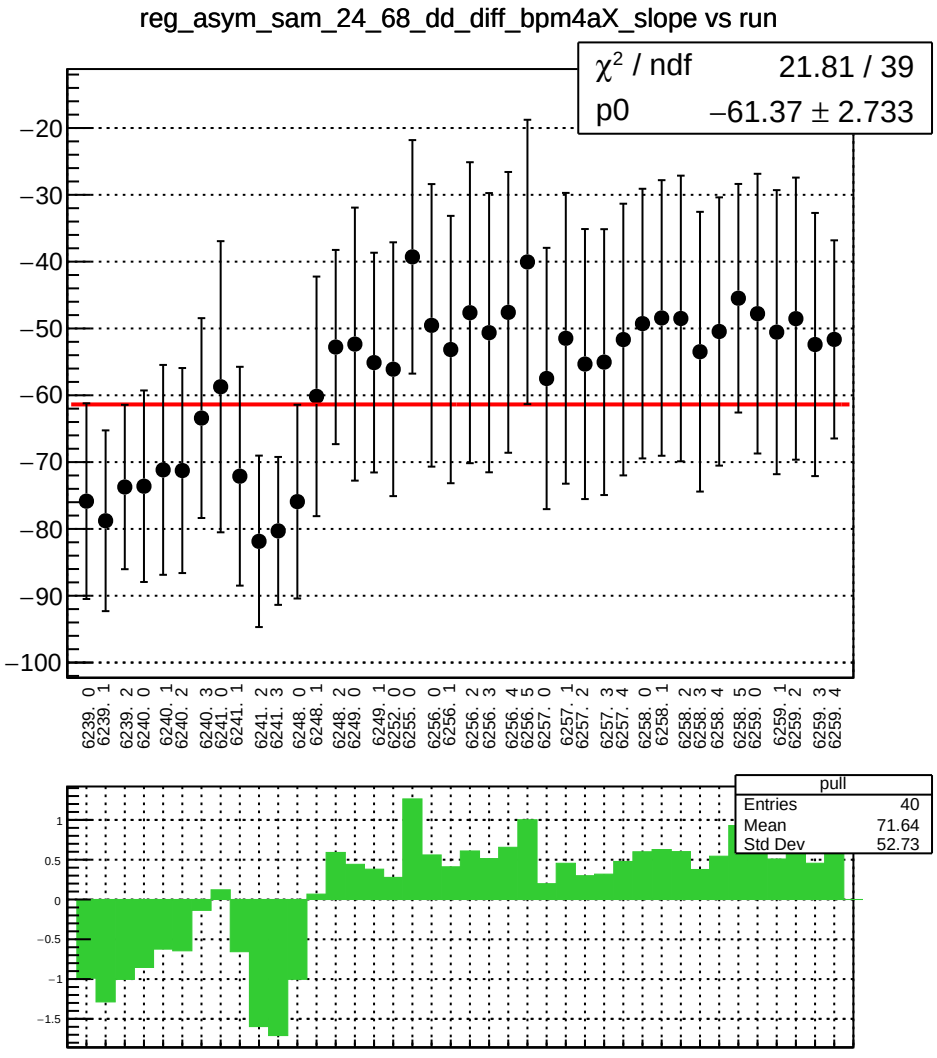

pull1D
Entries 40
Mean 0.07317
Std Dev 0.6533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

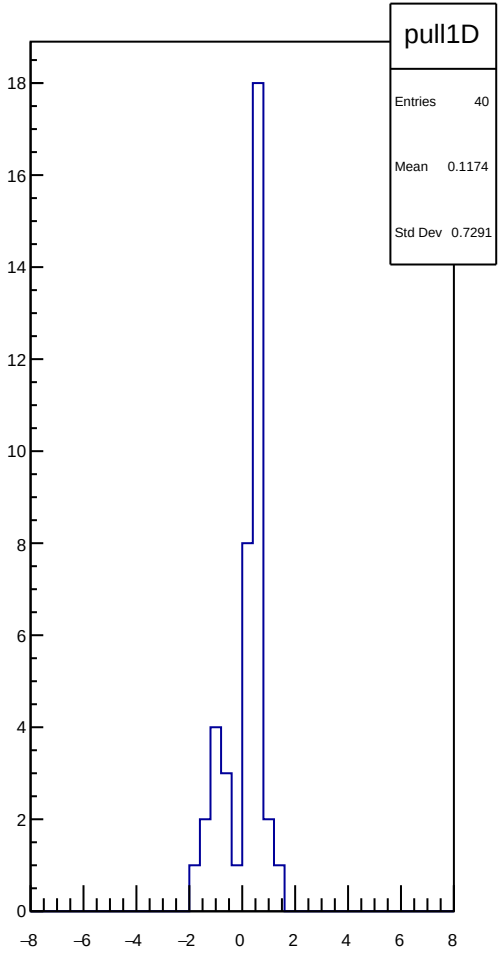

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.612 / 39
p0 23.95 ± 0.6954
35
30
25
20
15
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 38.61
Std Dev 34.84
1.5
1
0.5
0
−0.5

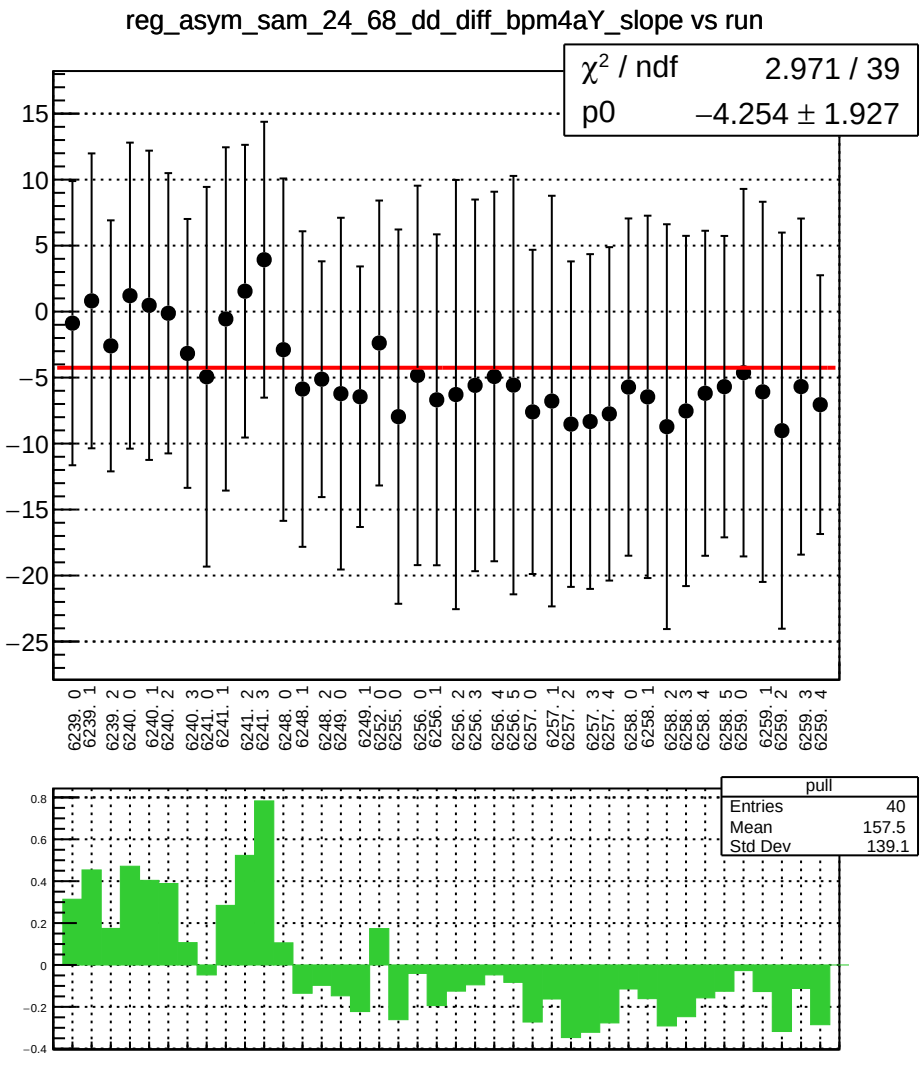

pull1D
Entries 40
Mean −0.01392
Std Dev 0.49
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

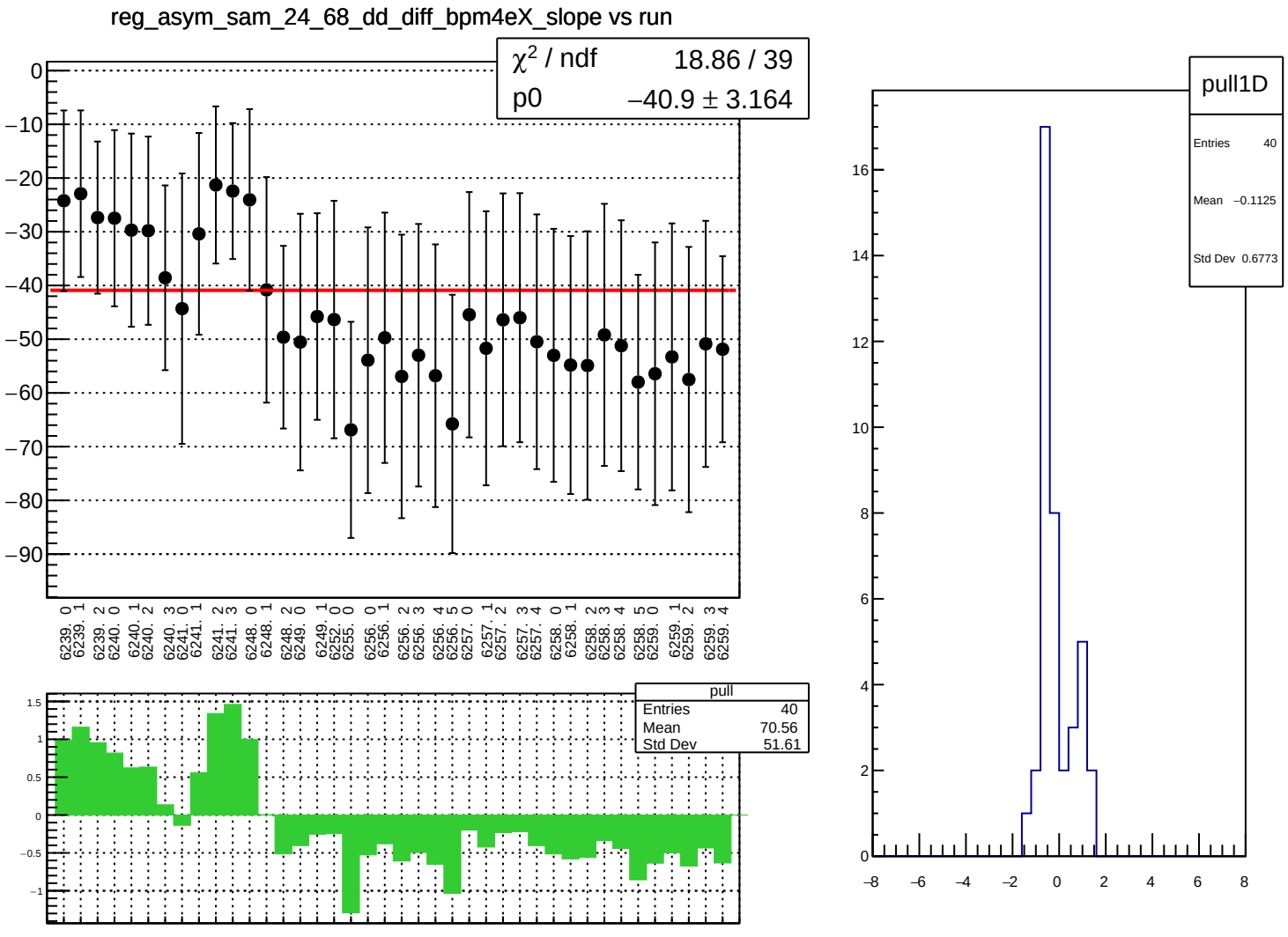

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.584 / 39
p0 0.4239 ± 0.04927
pull
Entries 40
Mean 227.5
Std Dev 210.8

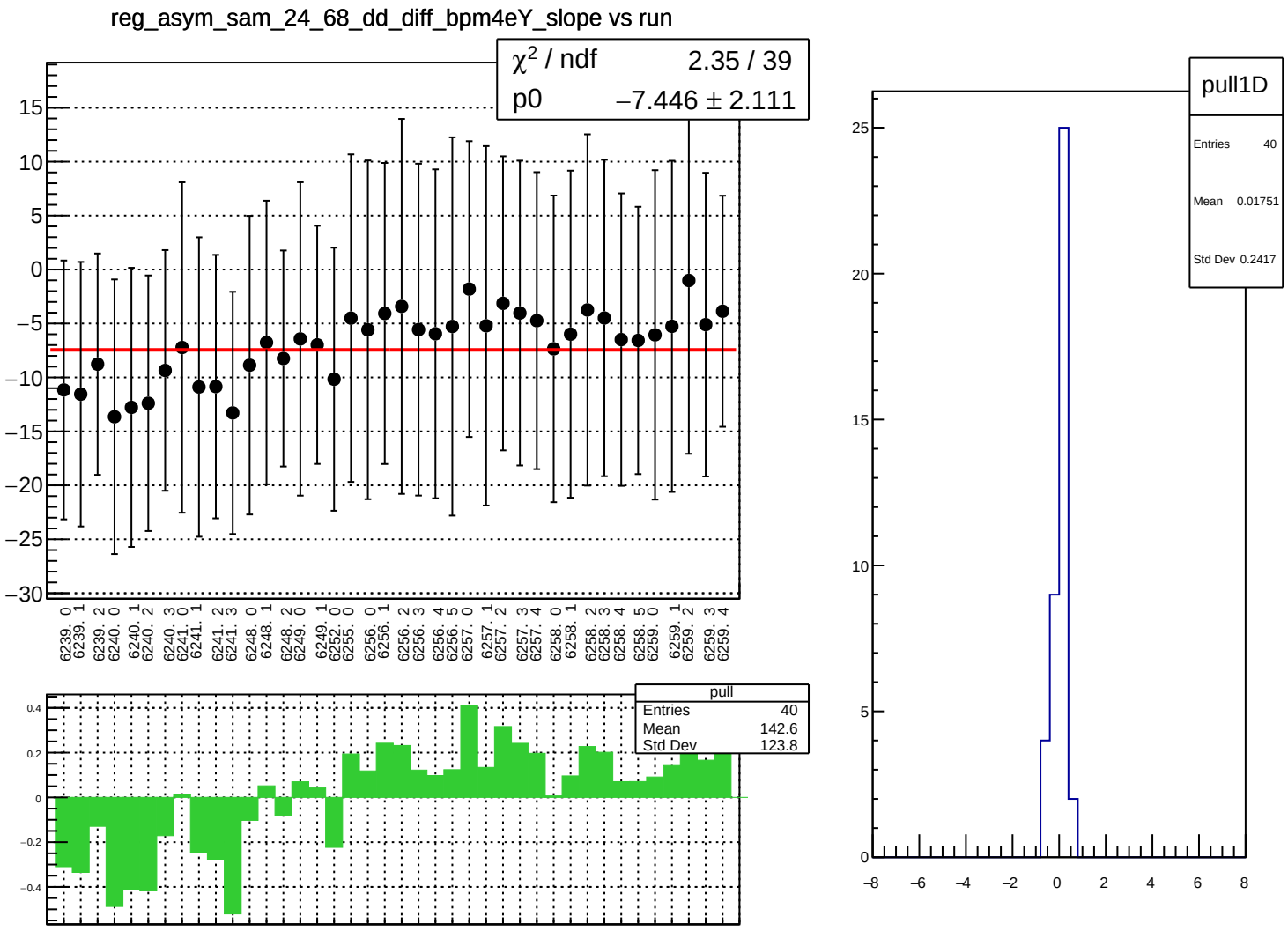

pull1D
Entries 40
Mean −0.007276
Std Dev 0.3385

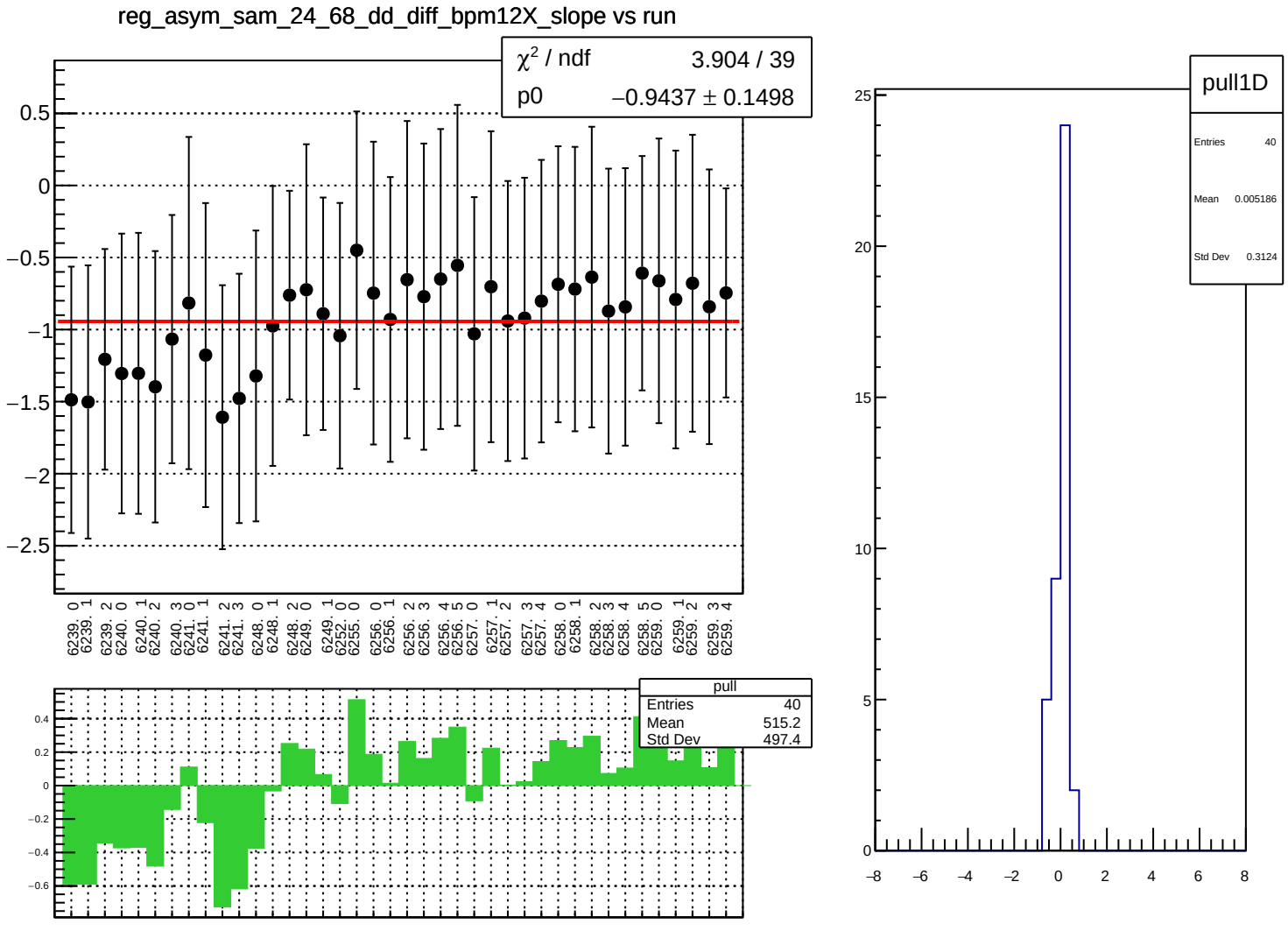

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.81 / 39
p0 −61.37 ± 2.733
pull
Entries 40
Mean 71.64
Std Dev 52.73

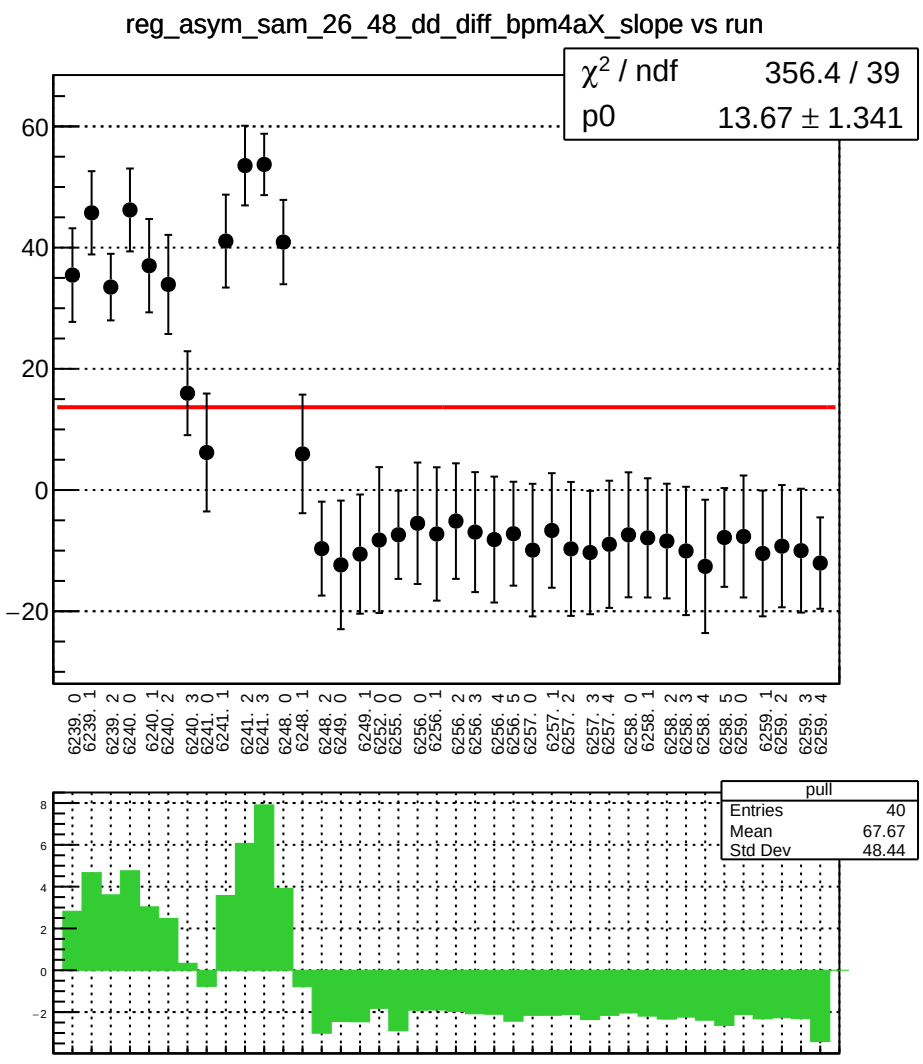

pull1D
Entries 40
Mean 0.1174
Std Dev 0.7291

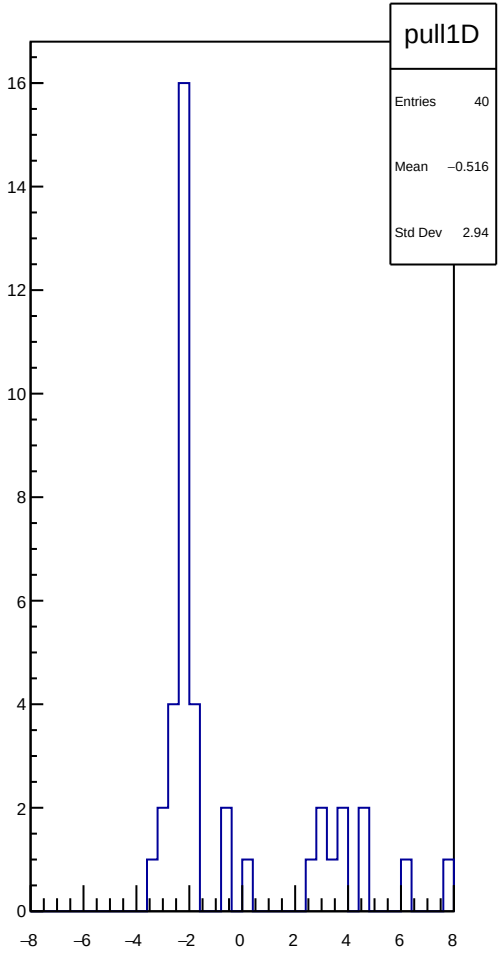

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.971 / 39
p0 −4.254 ± 1.927
pull
Entries 40
Mean 157.5
Std Dev 139.1
pull1D
Entries 40
Mean −0.01639
Std Dev 0.272

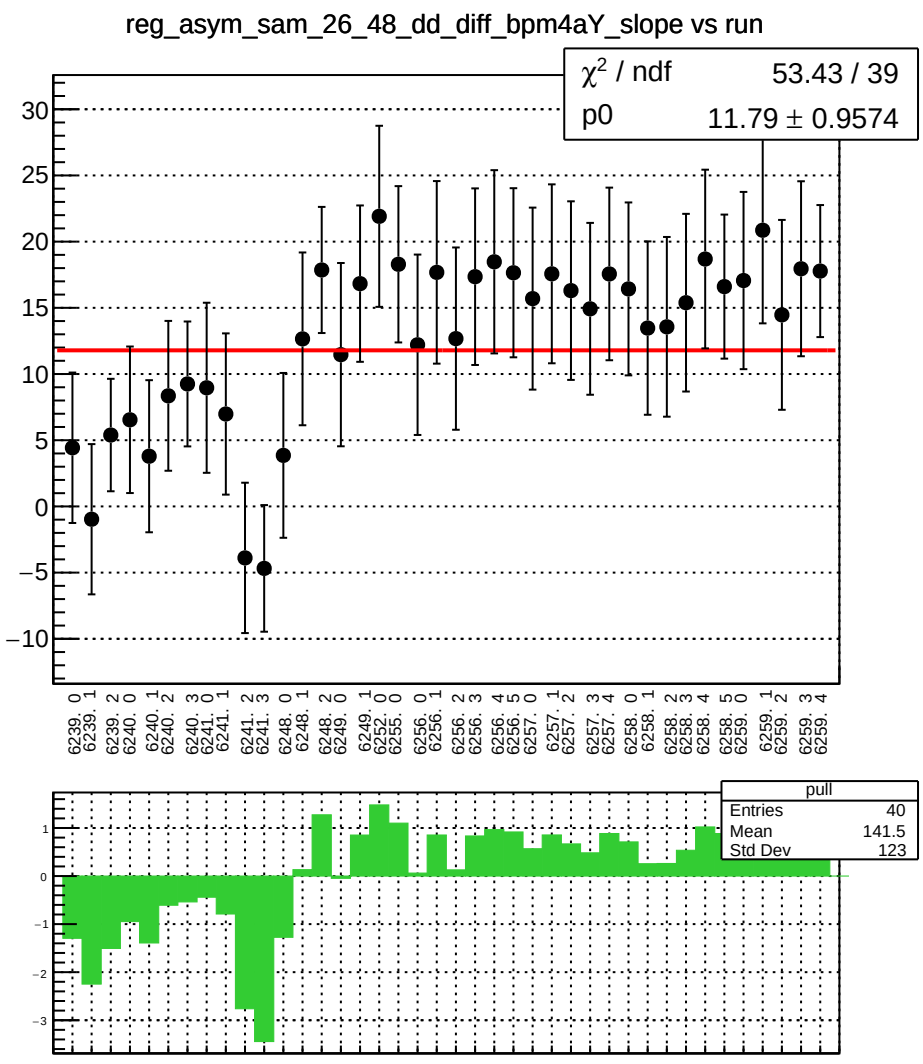

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.86 / 39
p0 −40.9 ± 3.164
pull
Entries 40
Mean 70.56
Std Dev 51.61
pull1D
Entries 40
Mean −0.1125
Std Dev 0.6773

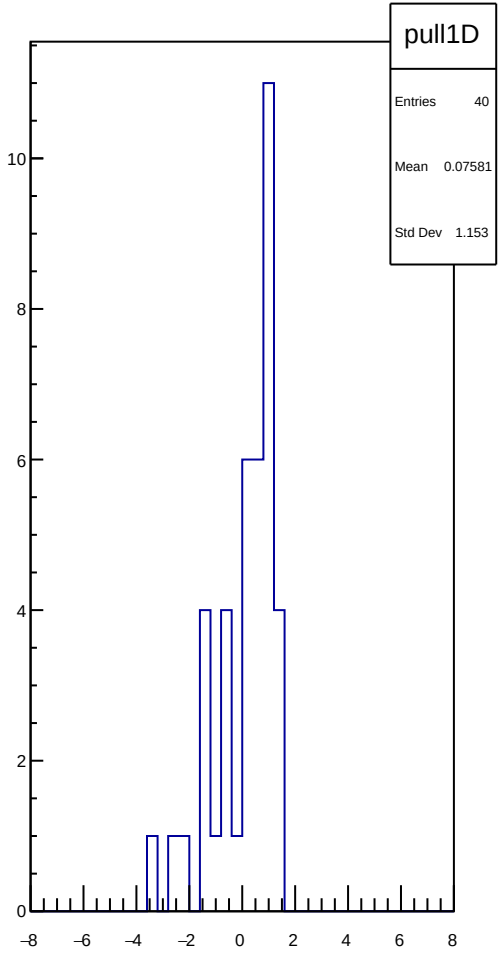

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.35 / 39
p0 −7.446 ± 2.111
pull
Entries 40
Mean 142.6
Std Dev 123.8
pull1D
Entries 40
Mean 0.01751
Std Dev 0.2417

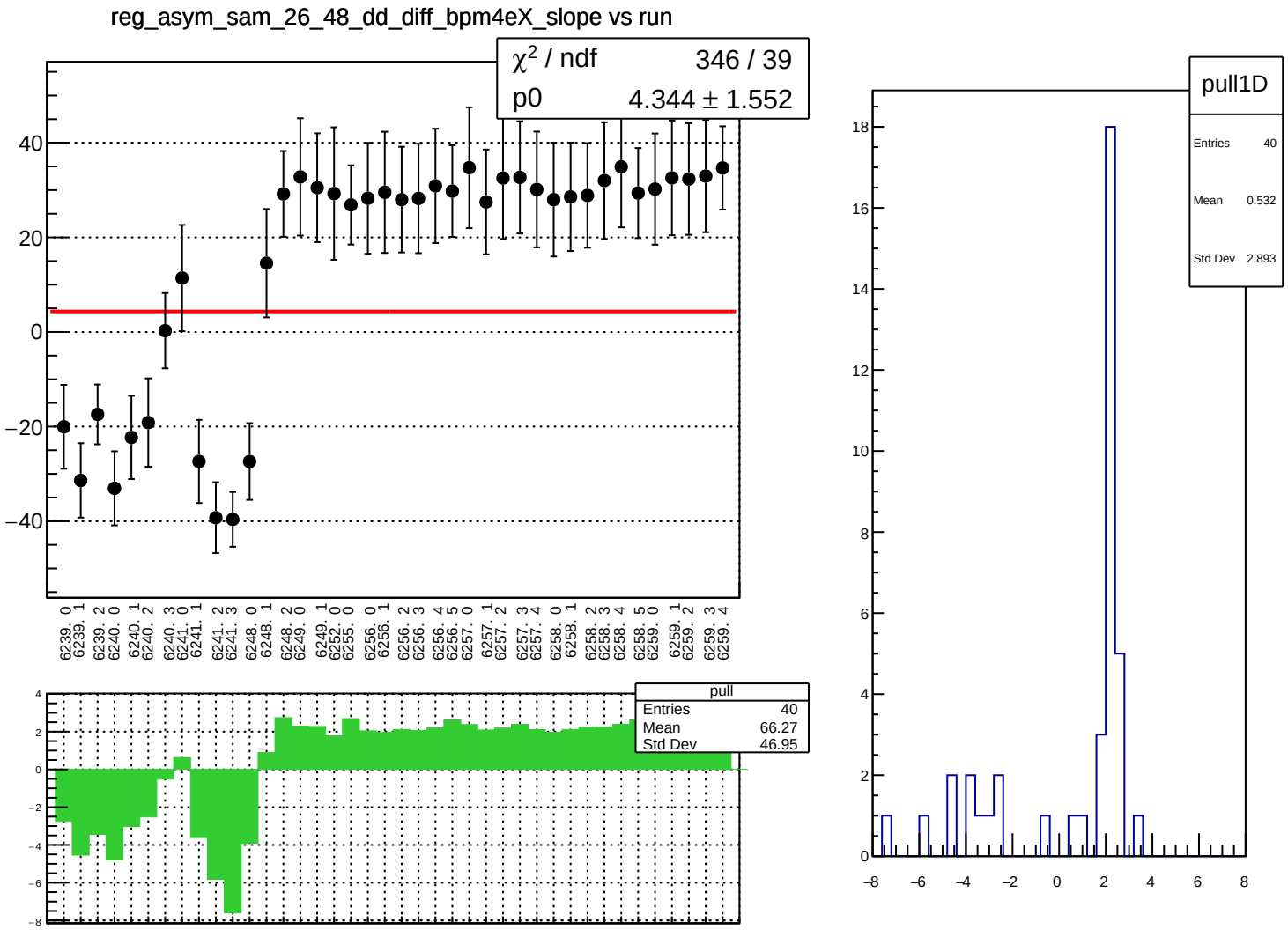

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.904 / 39
p0 −0.9437 ± 0.1498
0.5
0
−0.5
−1
−1.5
−2
−2.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 515.2
Std Dev 497.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 40
Mean 0.005186
Std Dev 0.3124
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

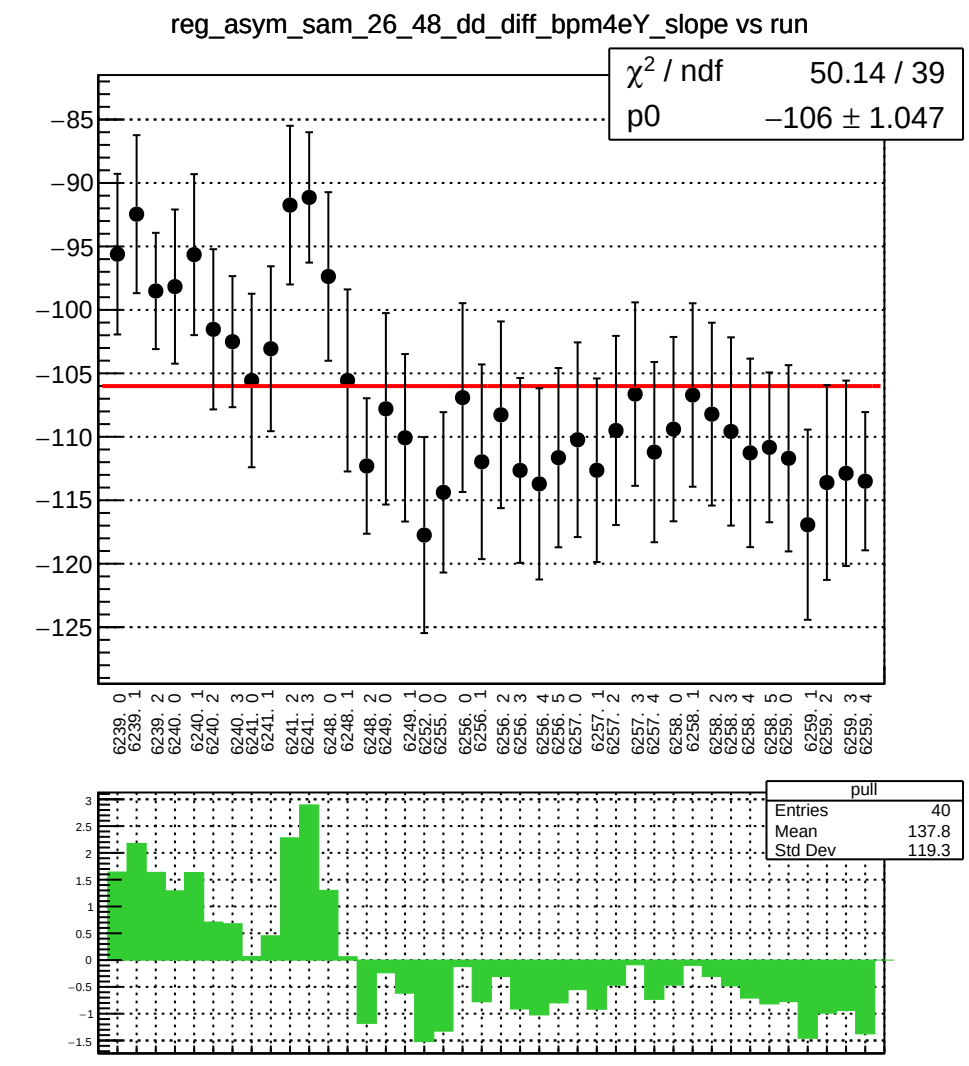

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 356.4 / 39
p0 13.67 ± 1.341
60
40
20
0
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 67.67
Std Dev 48.44
8
6
4
2
0
−2

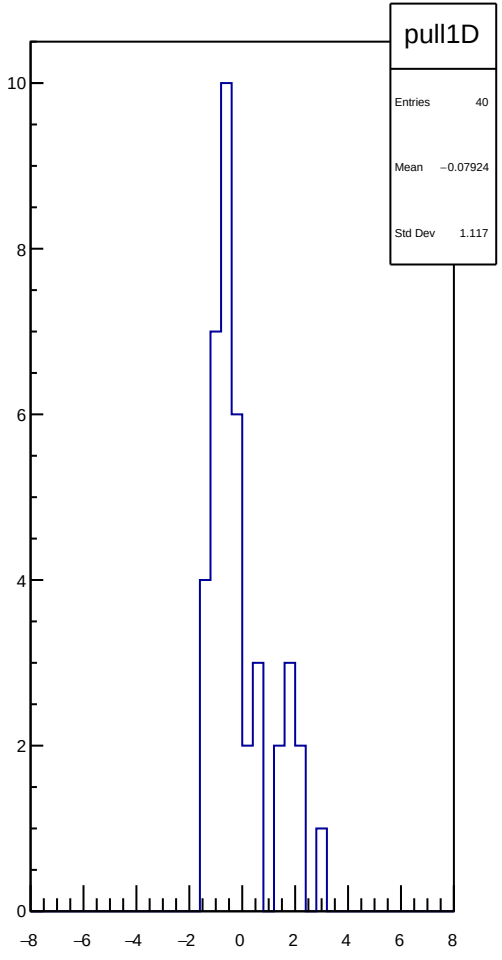

pull1D
Entries 40
Mean −0.516
Std Dev 2.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

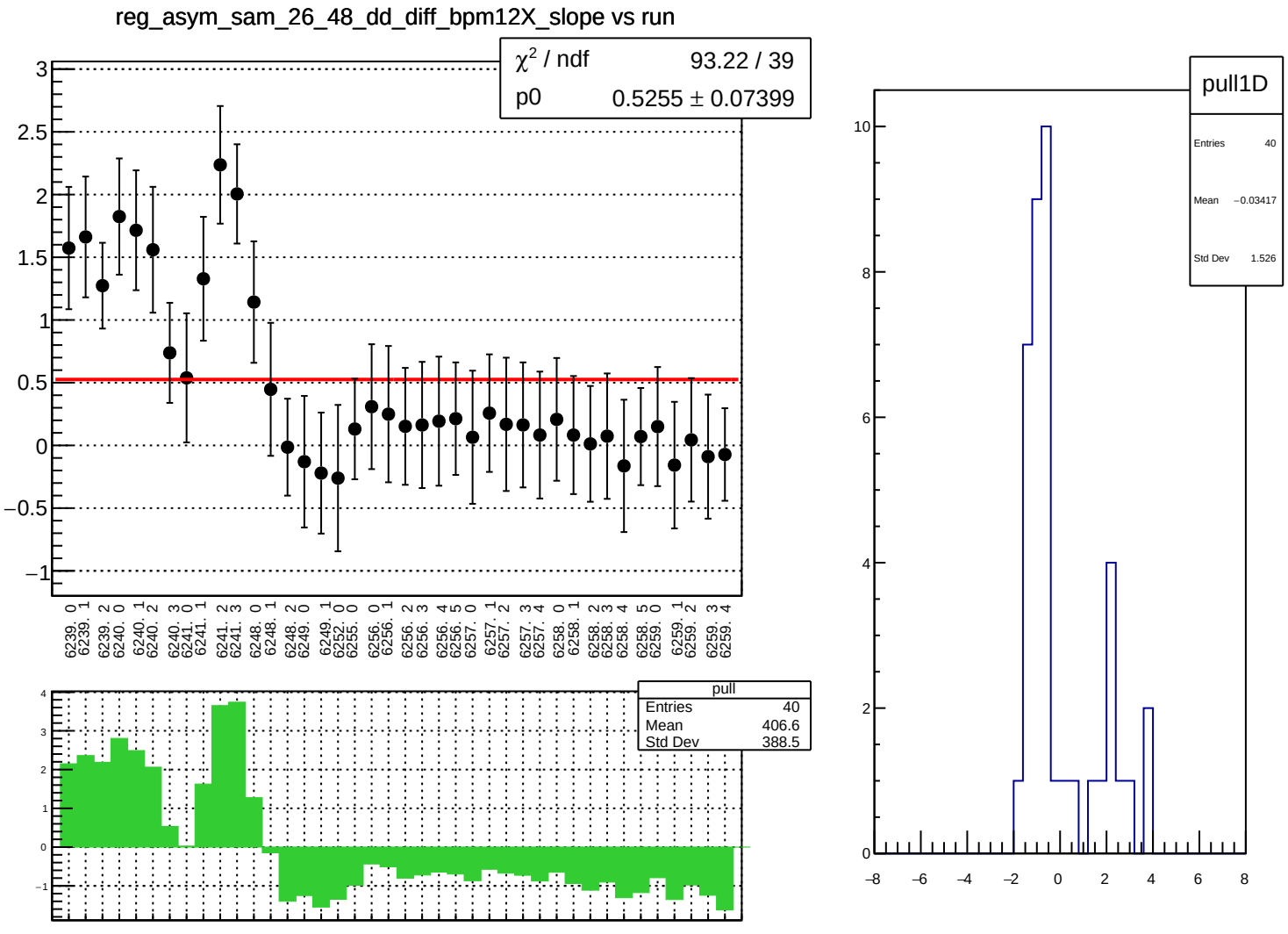

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.43 / 39
p0 11.79 ± 0.9574
pull
Entries 40
Mean 141.5
Std Dev 123

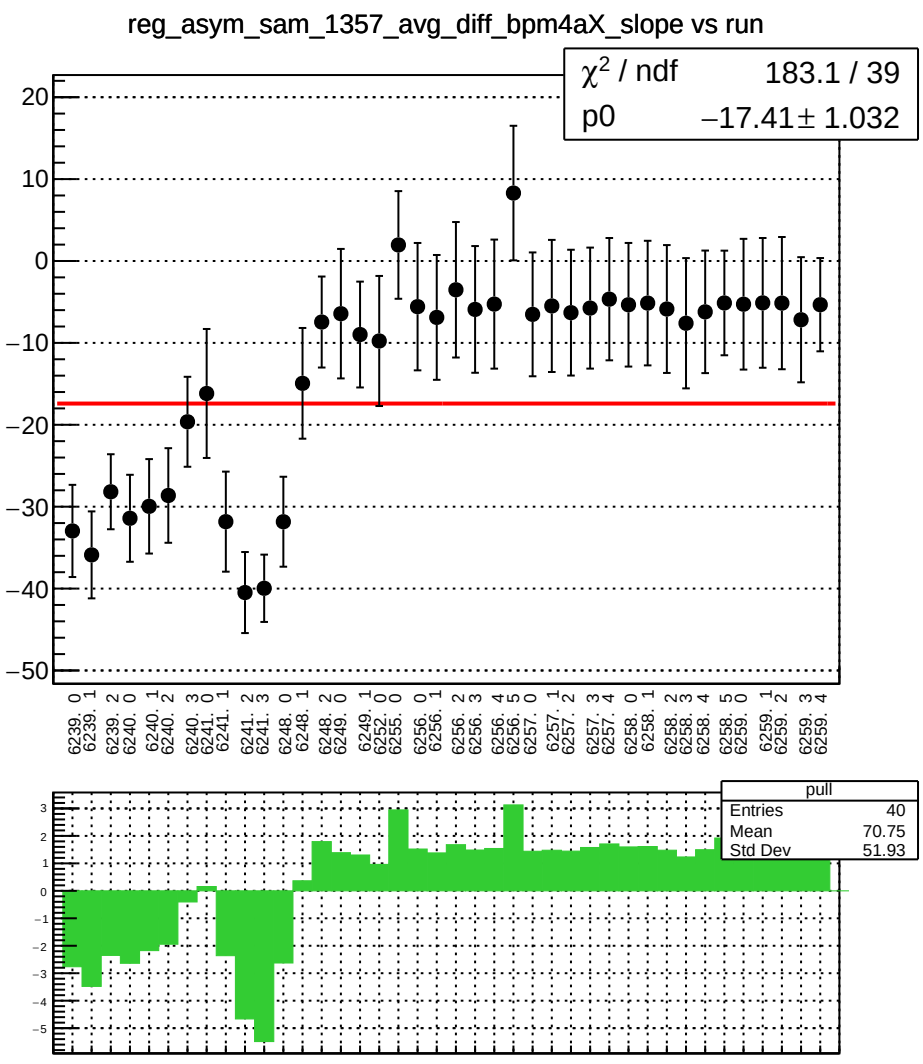

pull1D
Entries 40
Mean 0.07581
Std Dev 1.153

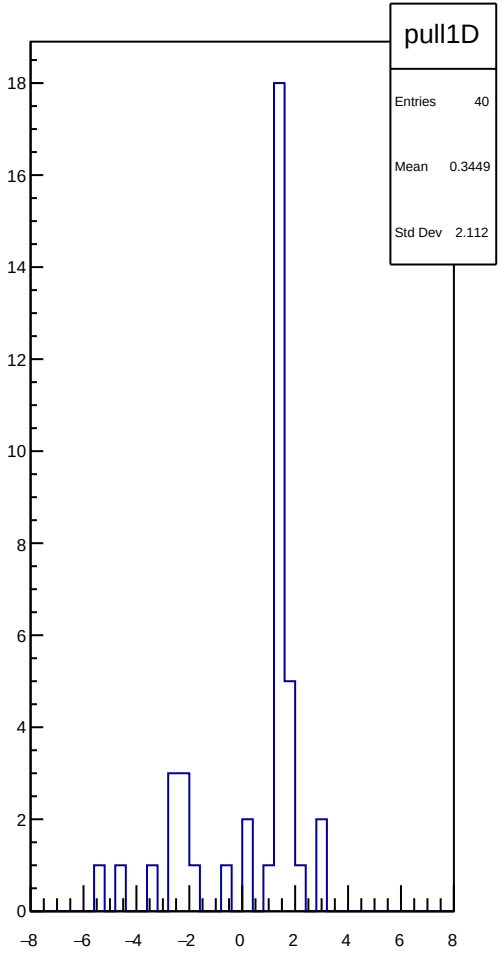

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 346 / 39
p0 4.344 ± 1.552
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 66.27
Std Dev 46.95
4
2
0
−2
−4
−6
−8
pull1D
Entries 40
Mean 0.532
Std Dev 2.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

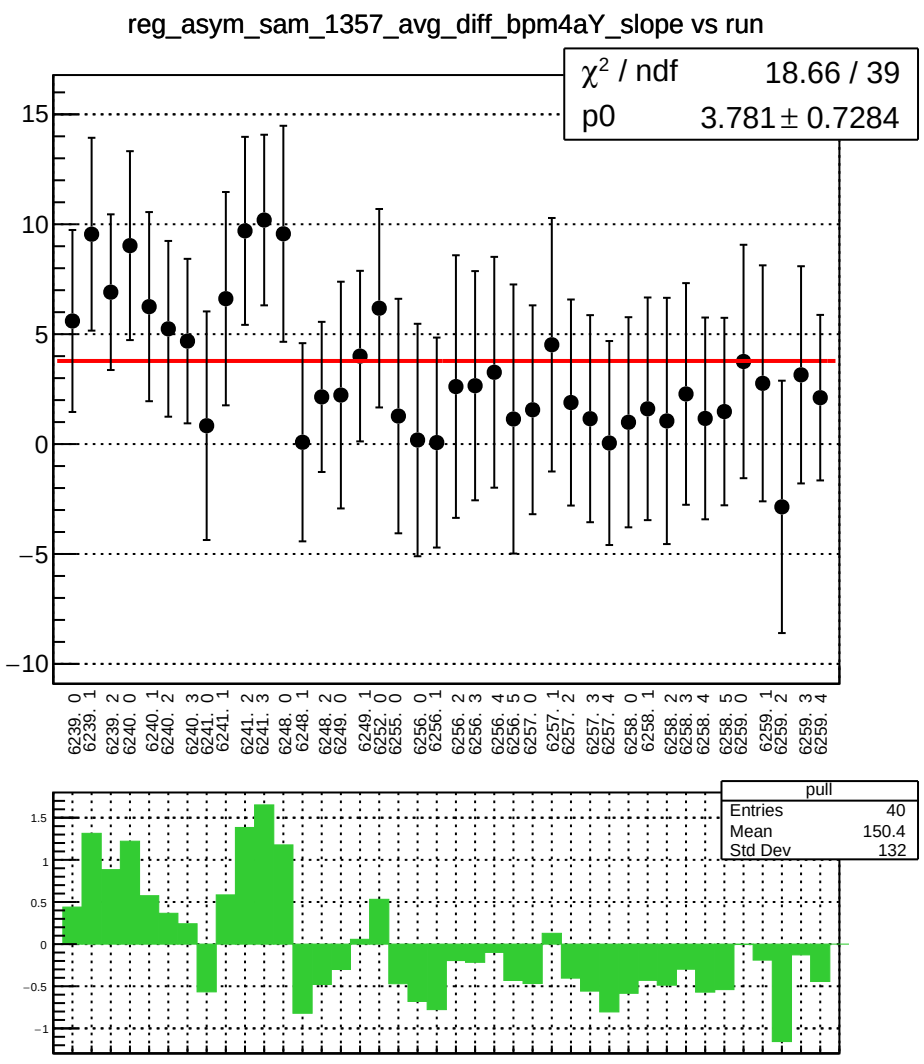

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.14 / 39
p0 −106 ± 1.047
−85
−90
−95
−100
−105
−110
−115
−120
−125
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 137.8
Std Dev 119.3
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

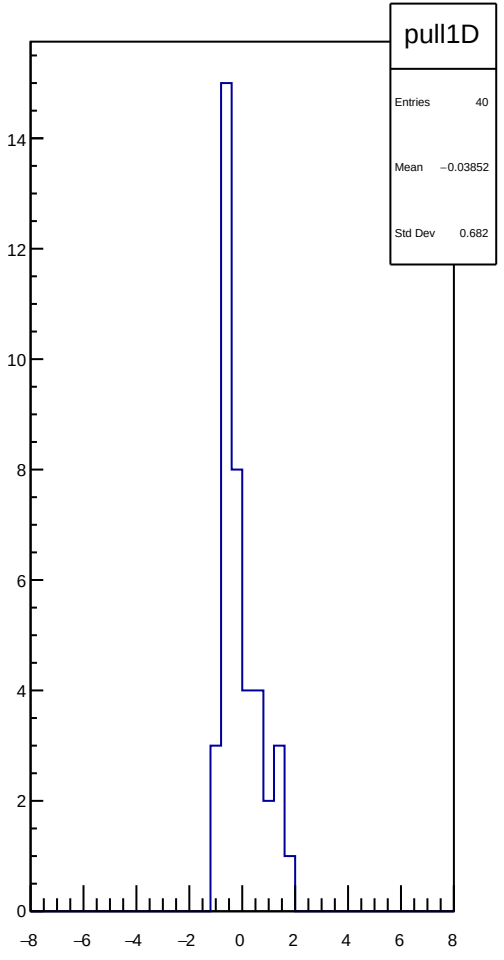

pull1D
Entries 40
Mean −0.07924
Std Dev 1.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

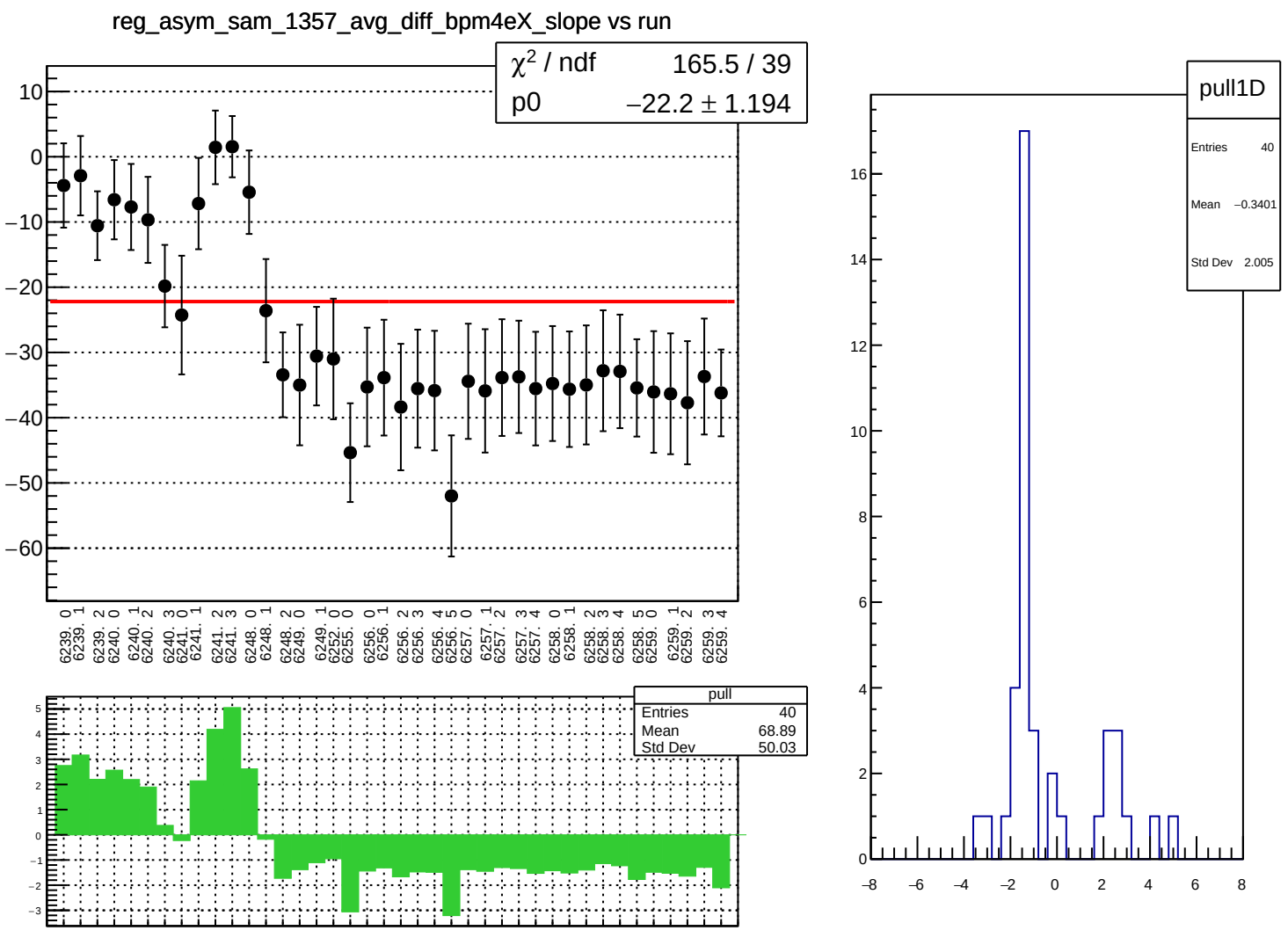

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 93.22 / 39
p0 0.5255 ± 0.07399
pull
Entries 40
Mean 406.6
Std Dev 388.5
pull1D
Entries 40
Mean −0.03417
Std Dev 1.526

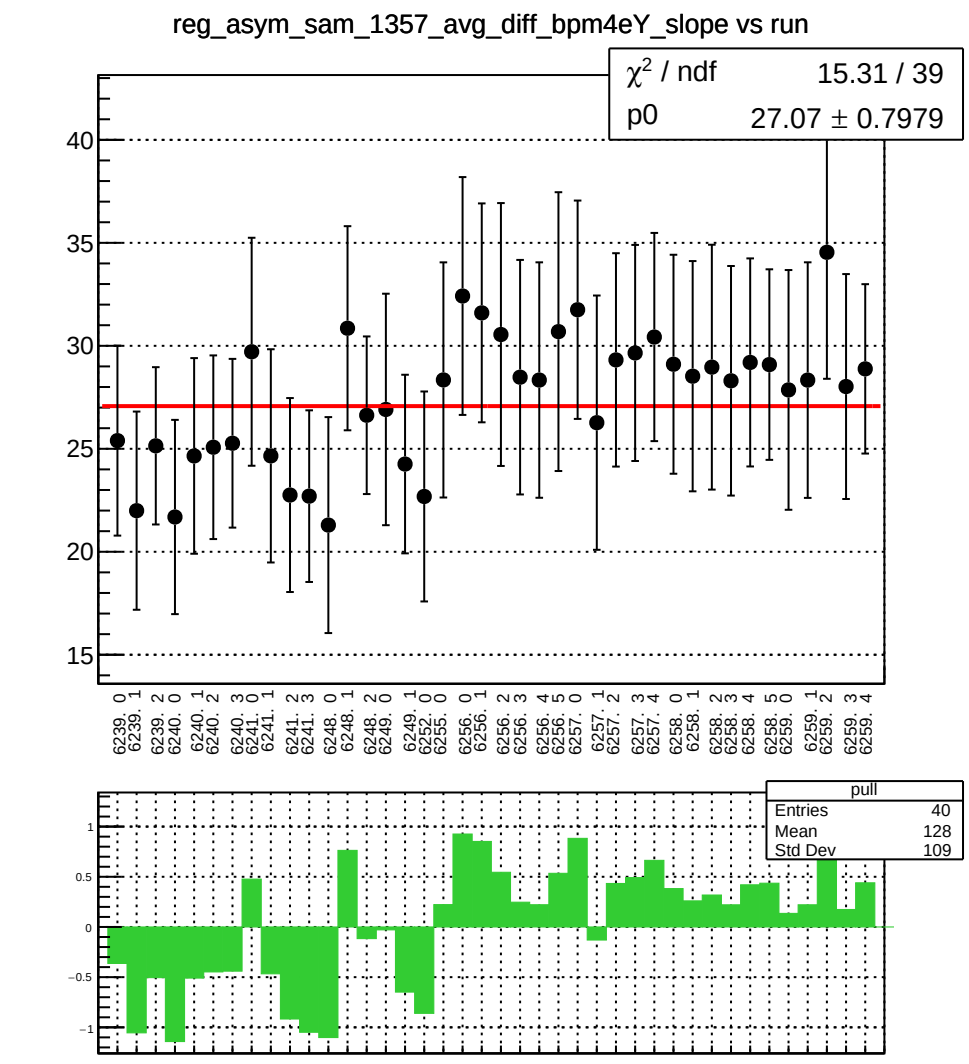

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 183.1 / 39
p0 −17.41± 1.032
20
10
0
−10
−20
−30
−40
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 70.75
Std Dev 51.93
3
2
1
0
−1
−2
−3
−4
−5

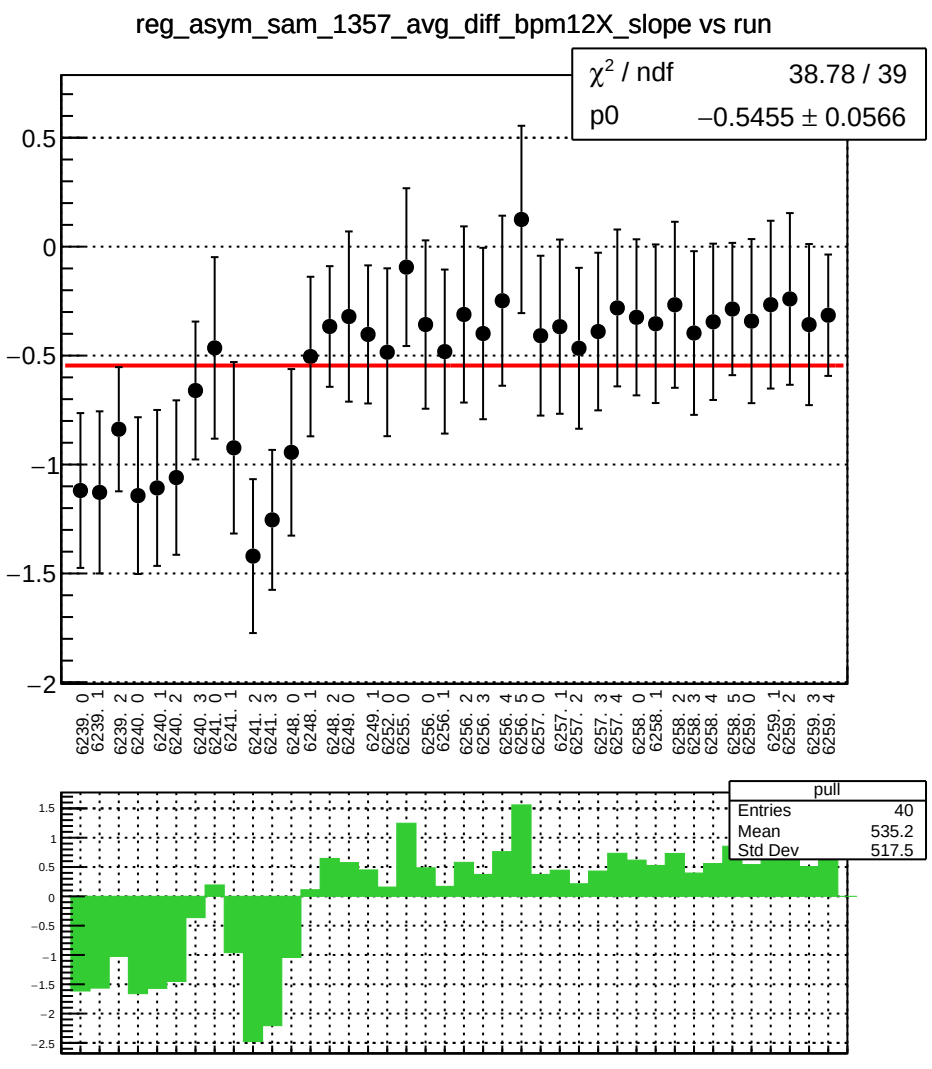

pull1D
Entries 40
Mean 0.3449
Std Dev 2.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

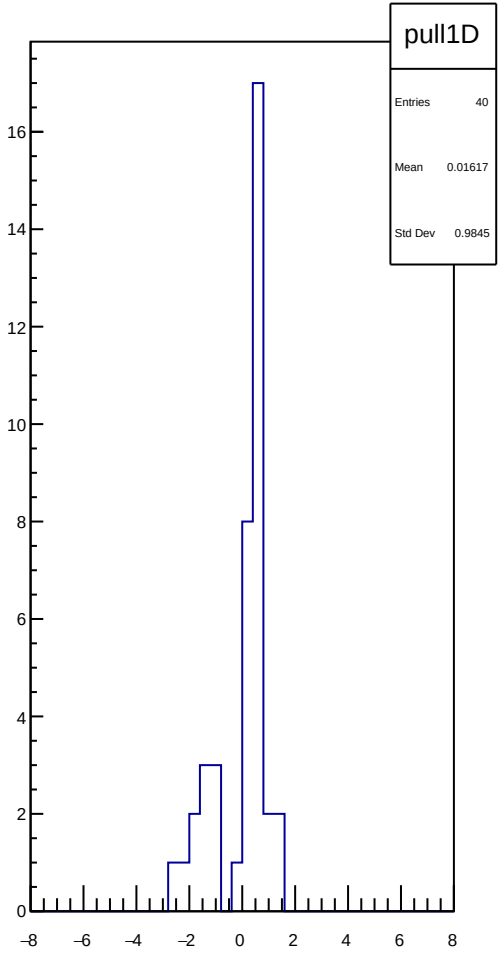

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.66 / 39
p0 3.781 ± 0.7284
15
10
5
0
−5
−10
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 150.4
Std Dev 132
1.5
1
0.5
0
−0.5
−1

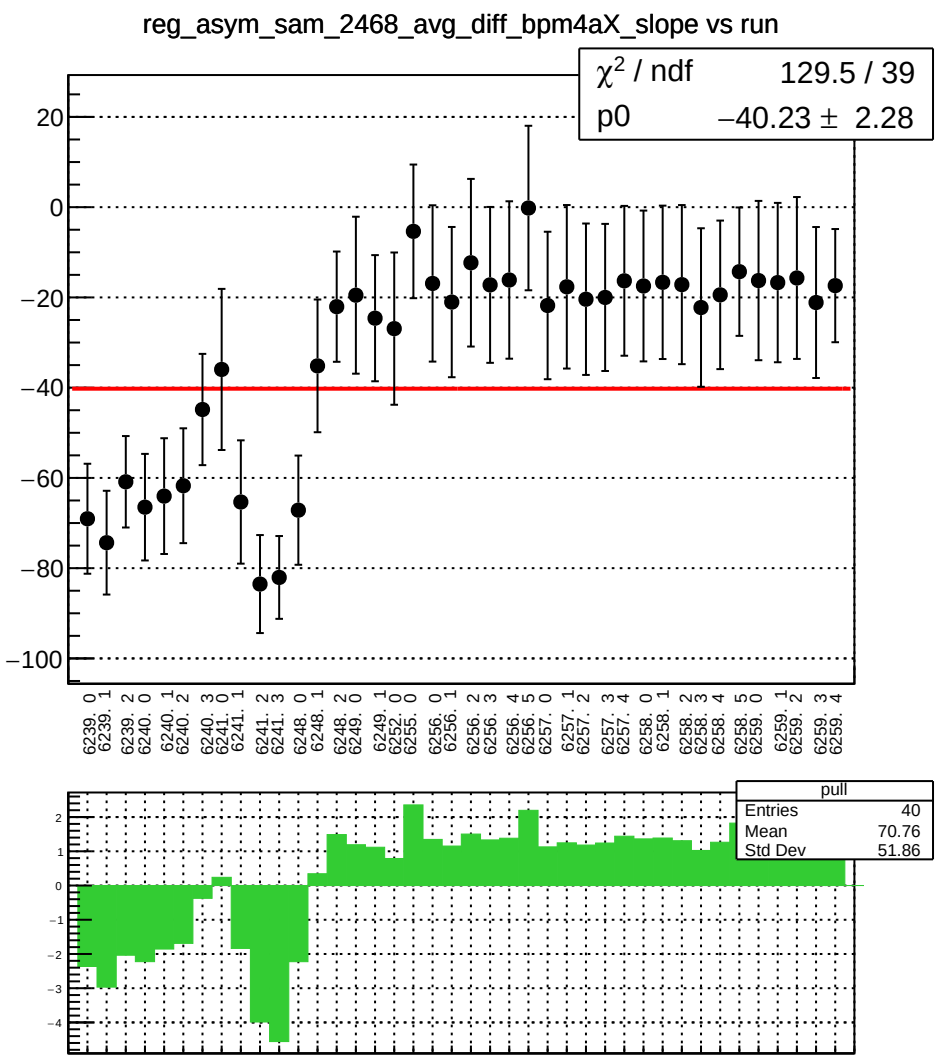

pull1D
Entries 40
Mean −0.03852
Std Dev 0.682
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

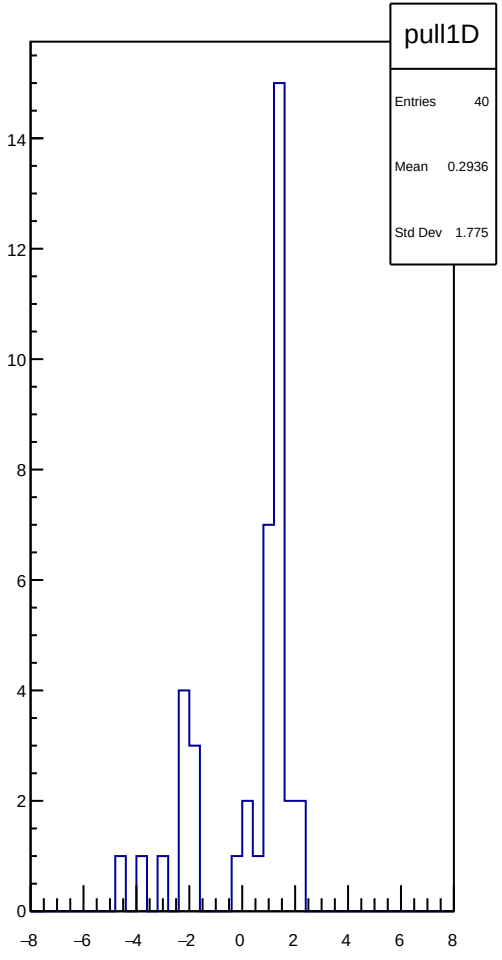

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 165.5 / 39
p0 −22.2 ± 1.194
pull
Entries 40
Mean 68.89
Std Dev 50.03
pull1D
Entries 40
Mean −0.3401
Std Dev 2.005

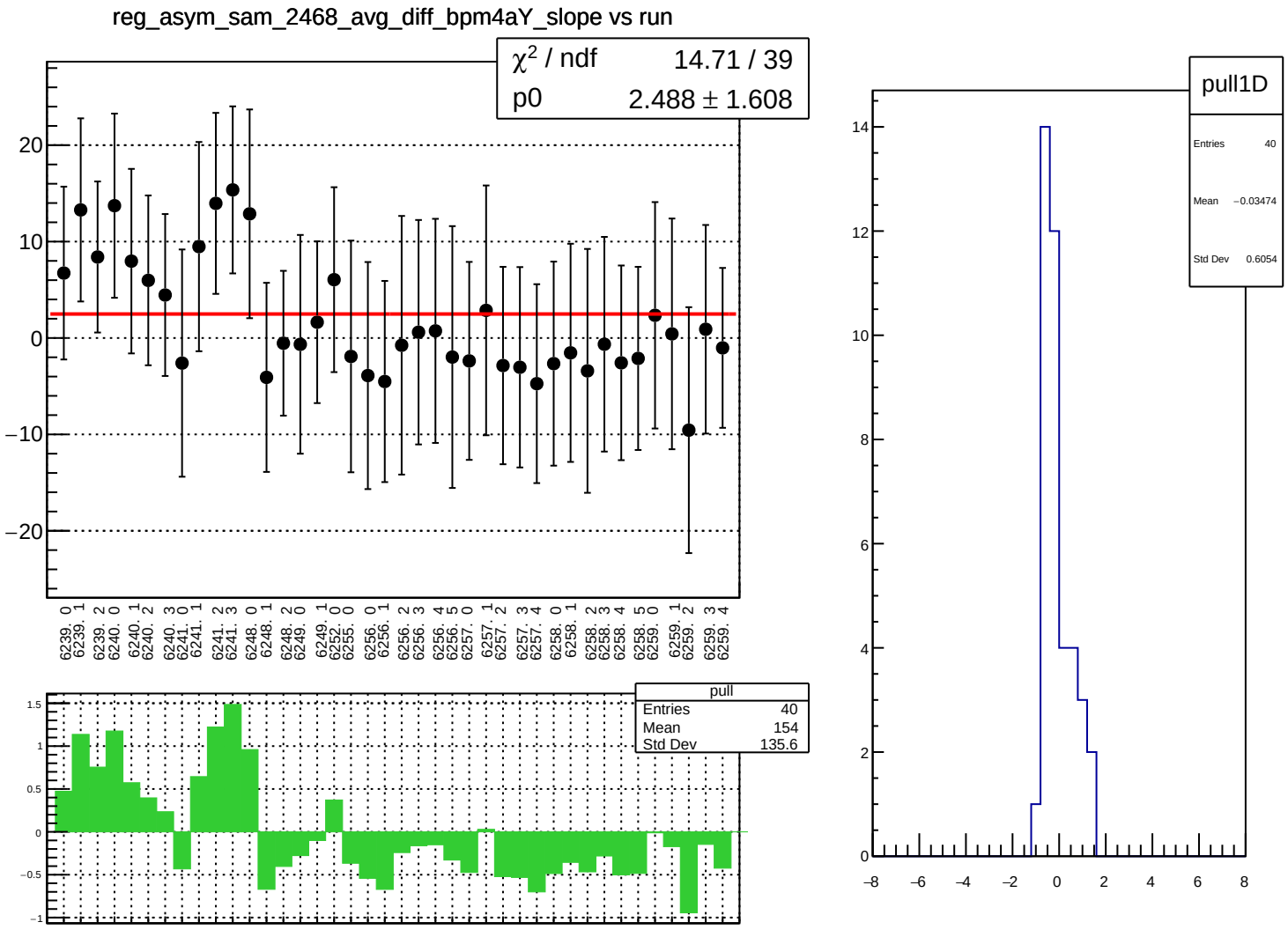

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.31 / 39
p0 27.07 ± 0.7979
40
35
30
25
20
15
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 128
Std Dev 109
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean 0.04256
Std Dev 0.6171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

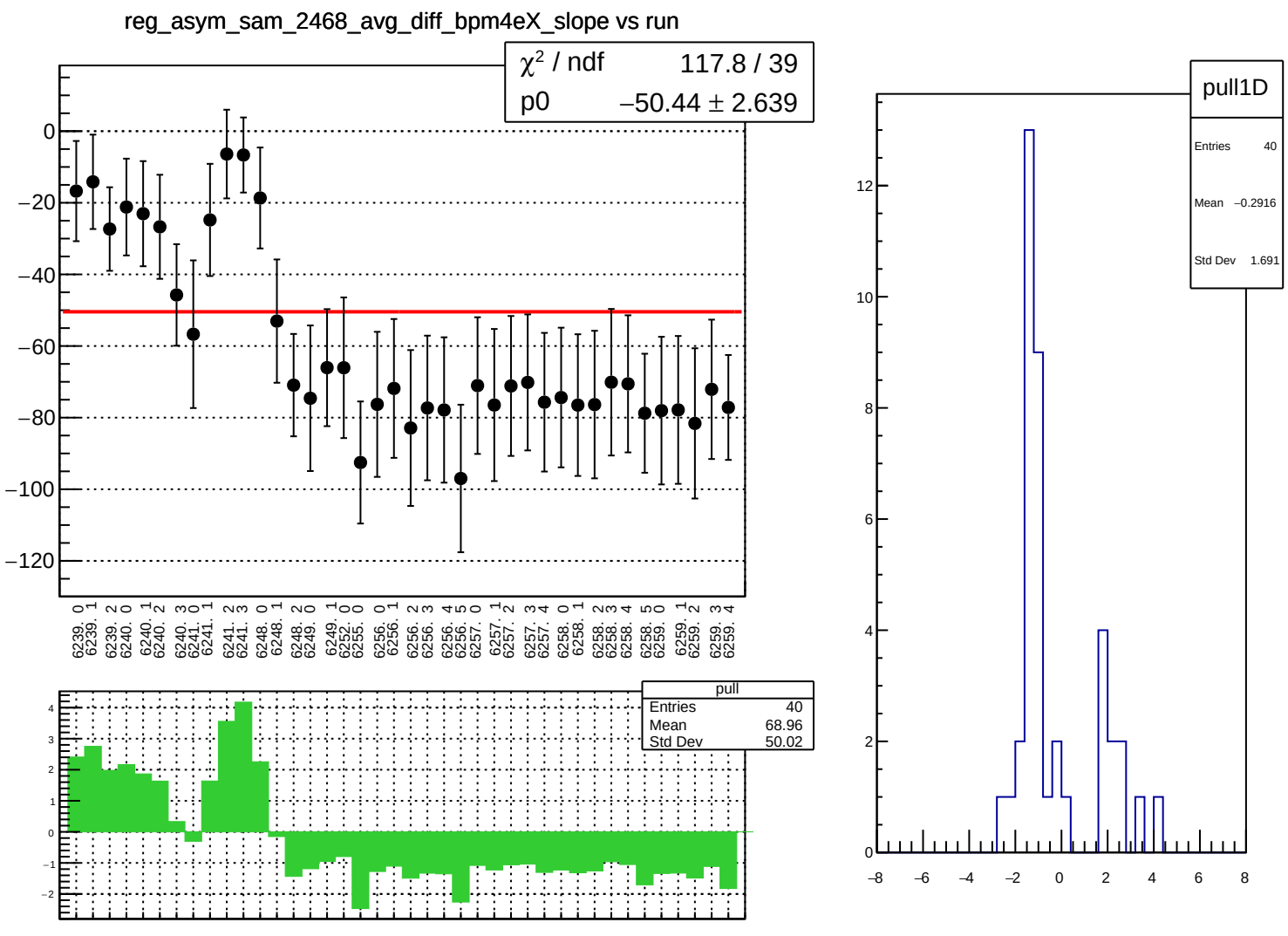

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 38.78 / 39
p0 −0.5455 ± 0.0566
0.5
0
−0.5
−1
−1.5
−2
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 535.2
Std Dev 517.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

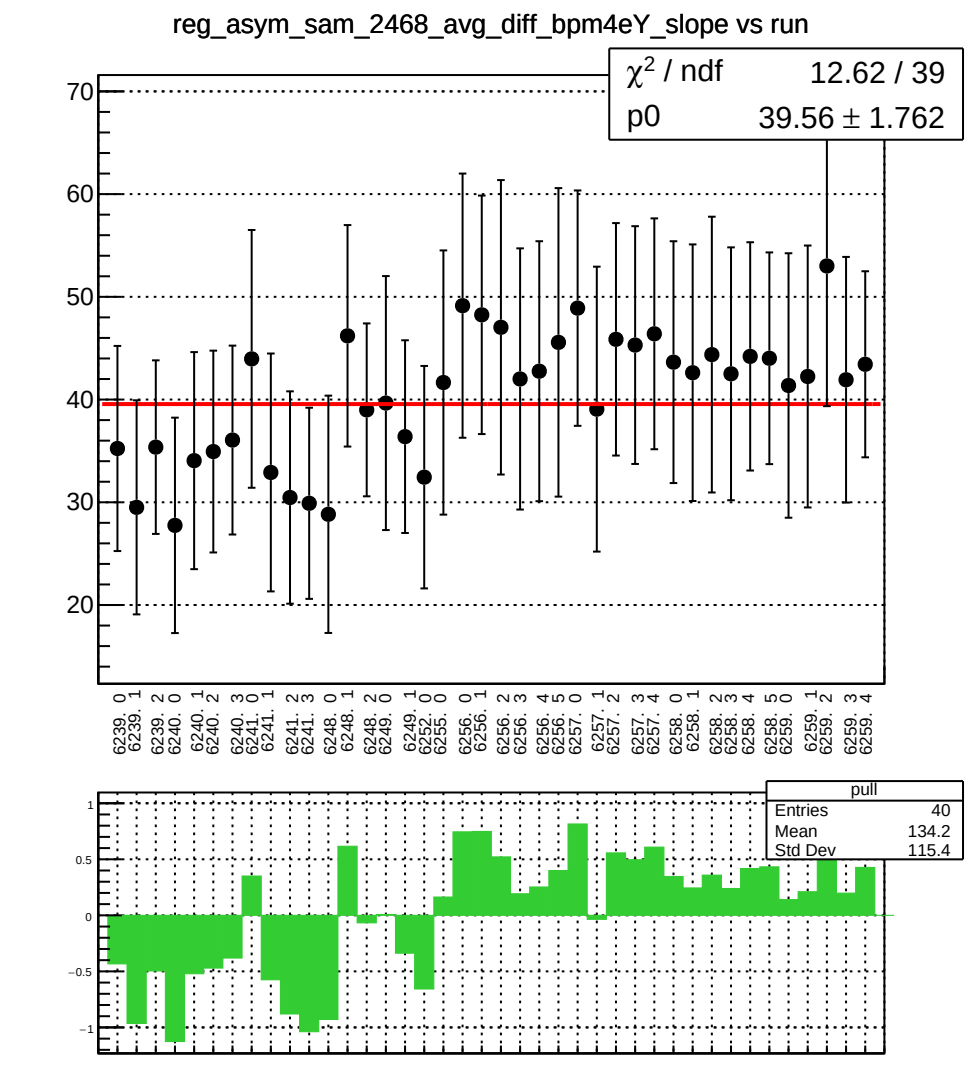

pull1D
Entries 40
Mean 0.01617
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

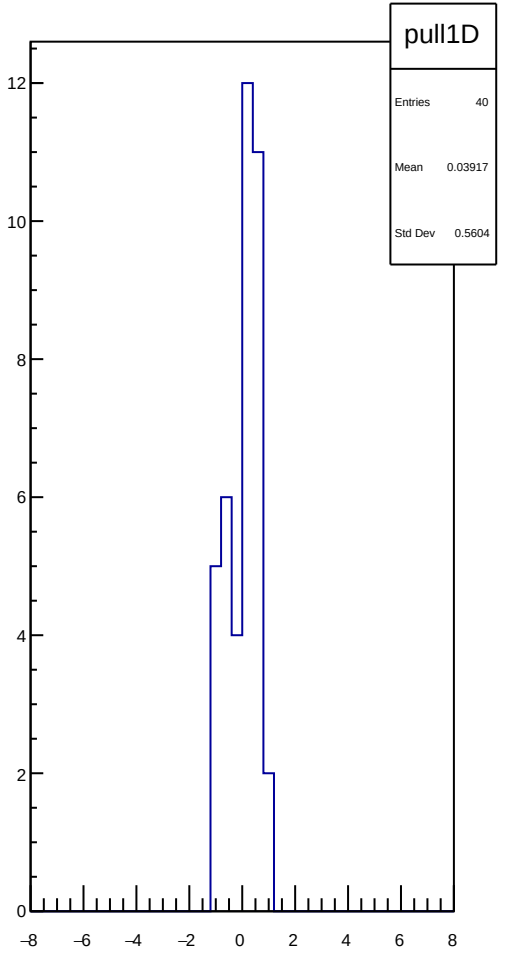

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 129.5 / 39
p0 −40.23 ± 2.28
pull
Entries 40
Mean 70.76
Std Dev 51.86

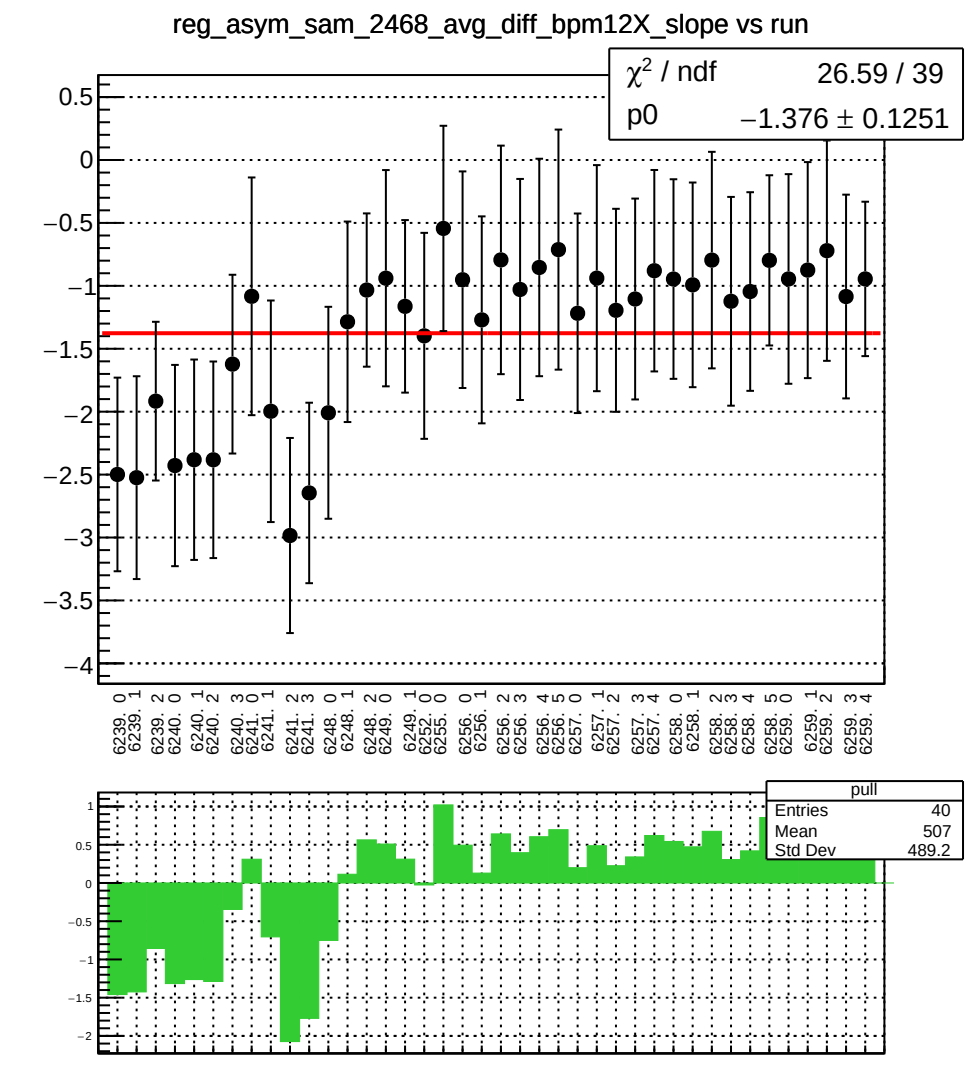

pull1D
Entries 40
Mean 0.2936
Std Dev 1.775

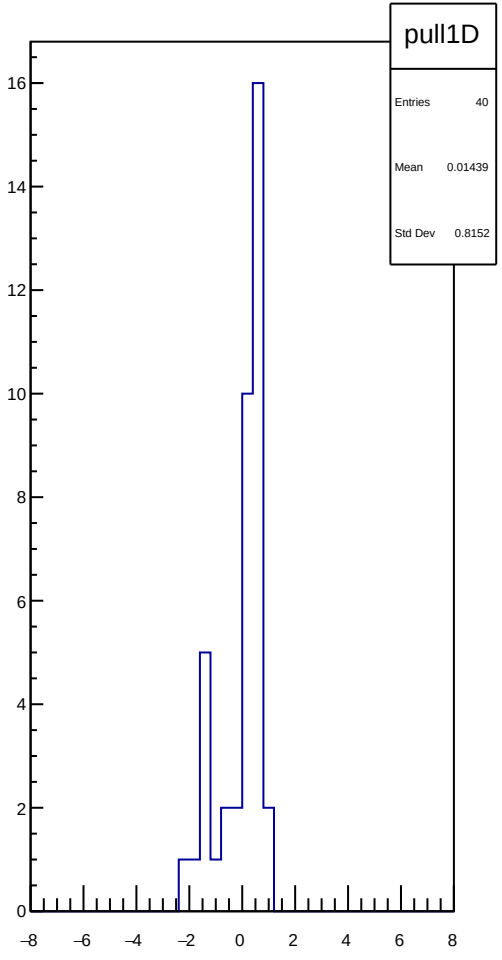

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.71 / 39
p0 2.488 ± 1.608
pull
Entries 40
Mean 154
Std Dev 135.6
pull1D
Entries 40
Mean −0.03474
Std Dev 0.6054

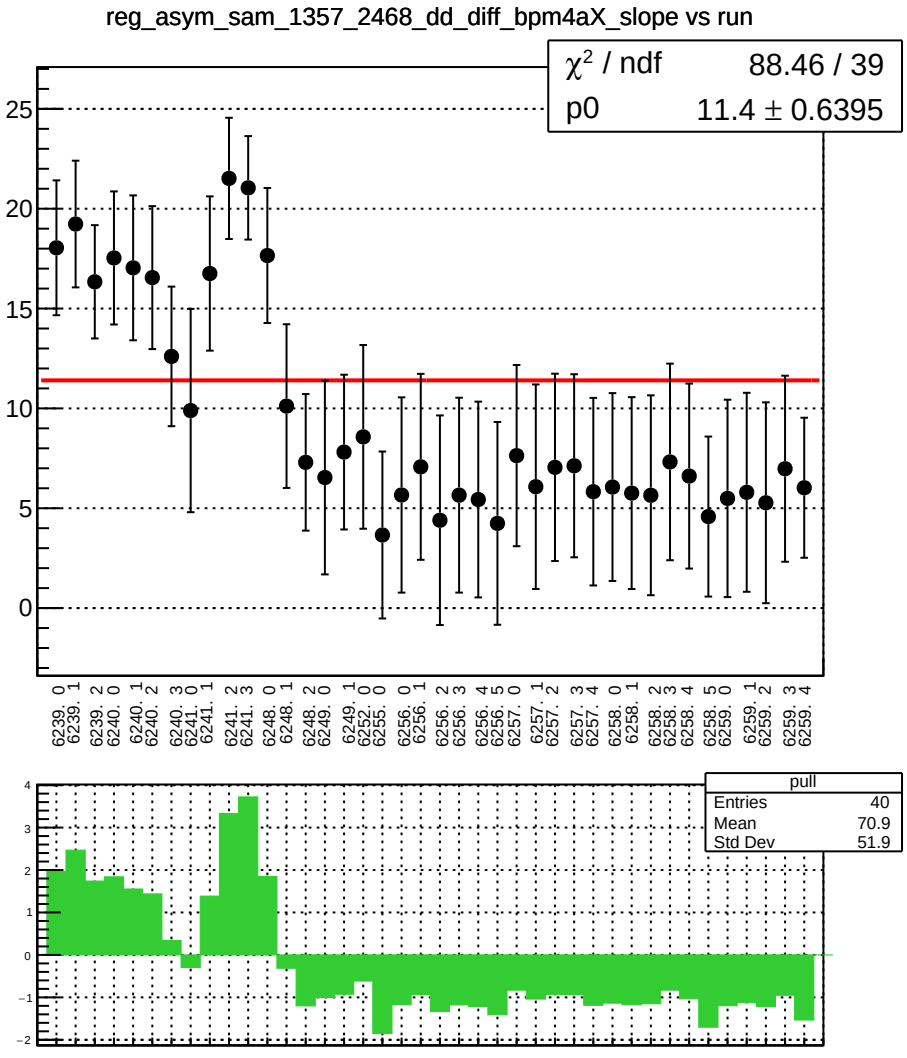

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 117.8 / 39
p0 −50.44 ± 2.639
pull
Entries 40
Mean 68.96
Std Dev 50.02
pull1D
Entries 40
Mean −0.2916
Std Dev 1.691

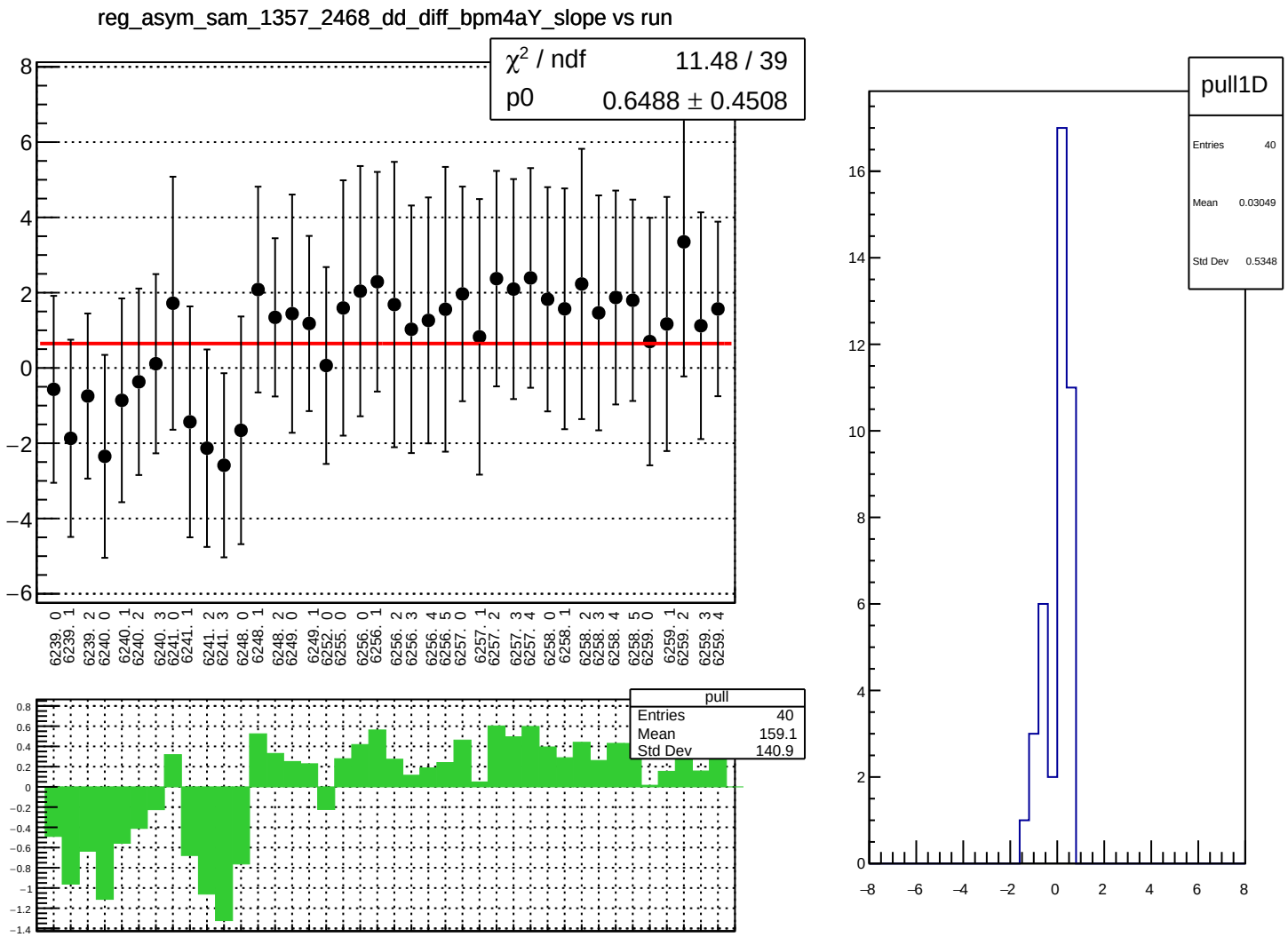

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 39
p0 39.56 ± 1.762
70
60
50
40
30
20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 134.2
Std Dev 115.4
1
0.5
0
−0.5
−1

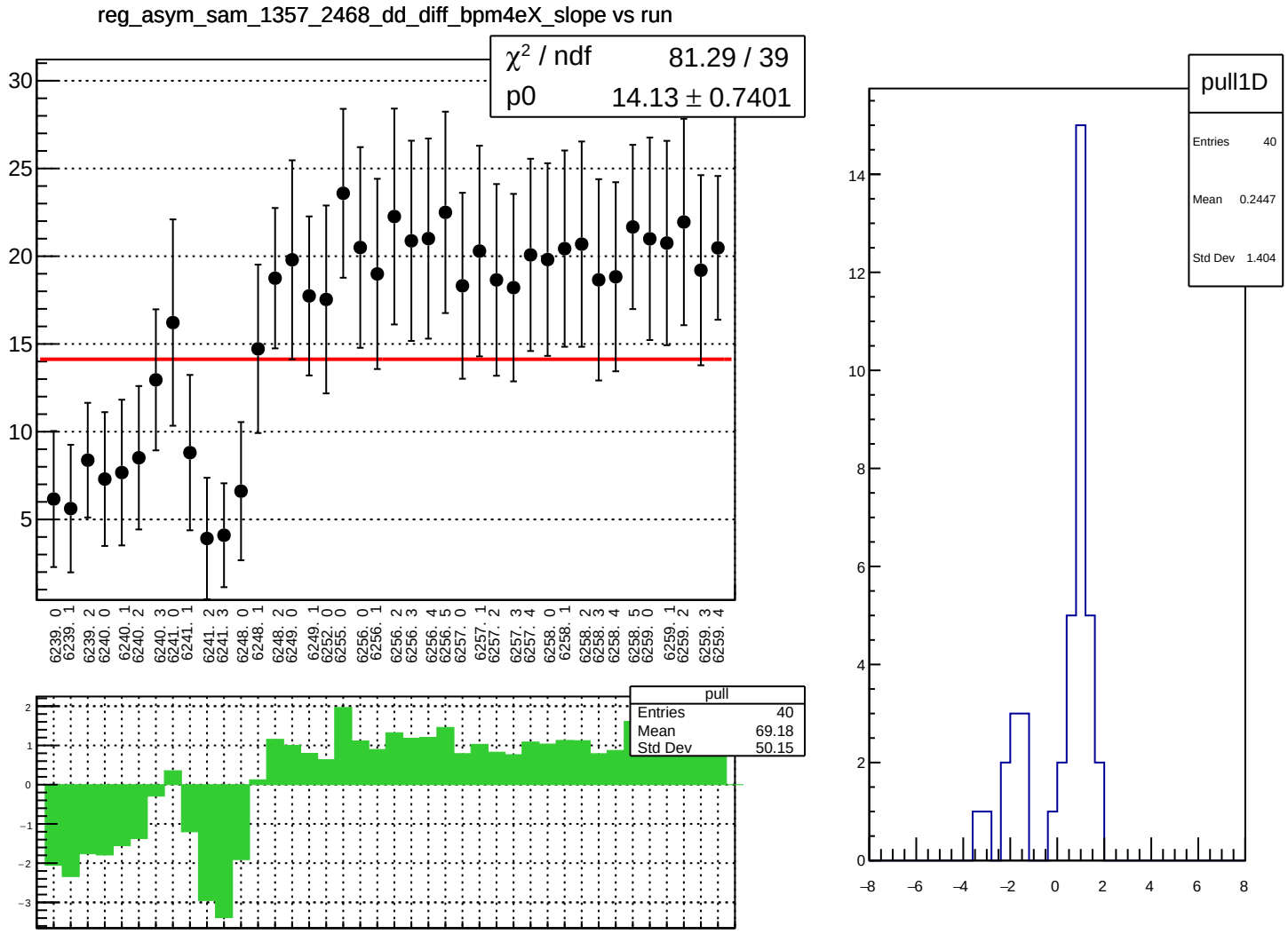

pull1D
Entries 40
Mean 0.03917
Std Dev 0.5604
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

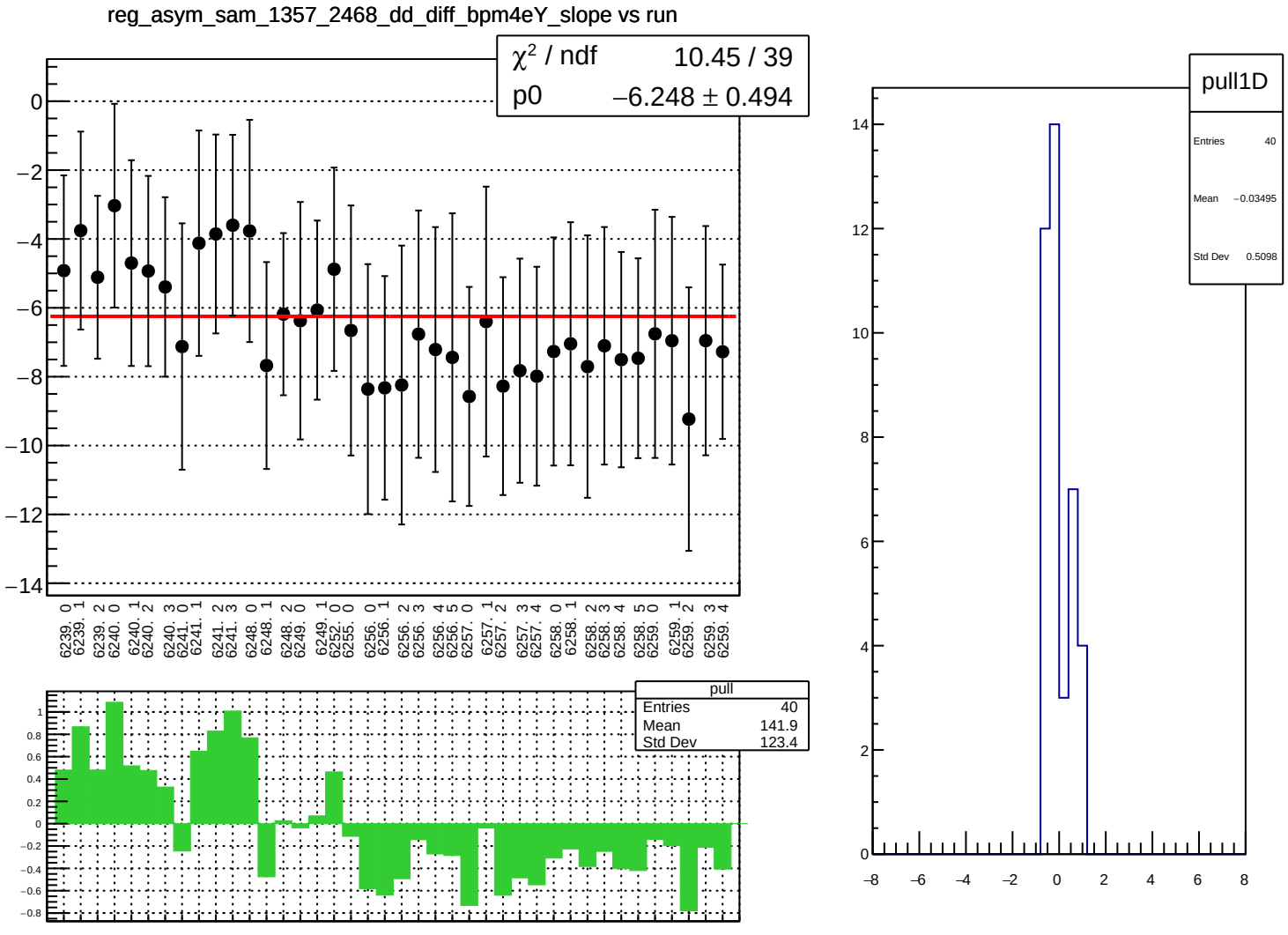

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 26.59 / 39
p0 −1.376 ± 0.1251
pull
Entries 40
Mean 507
Std Dev 489.2

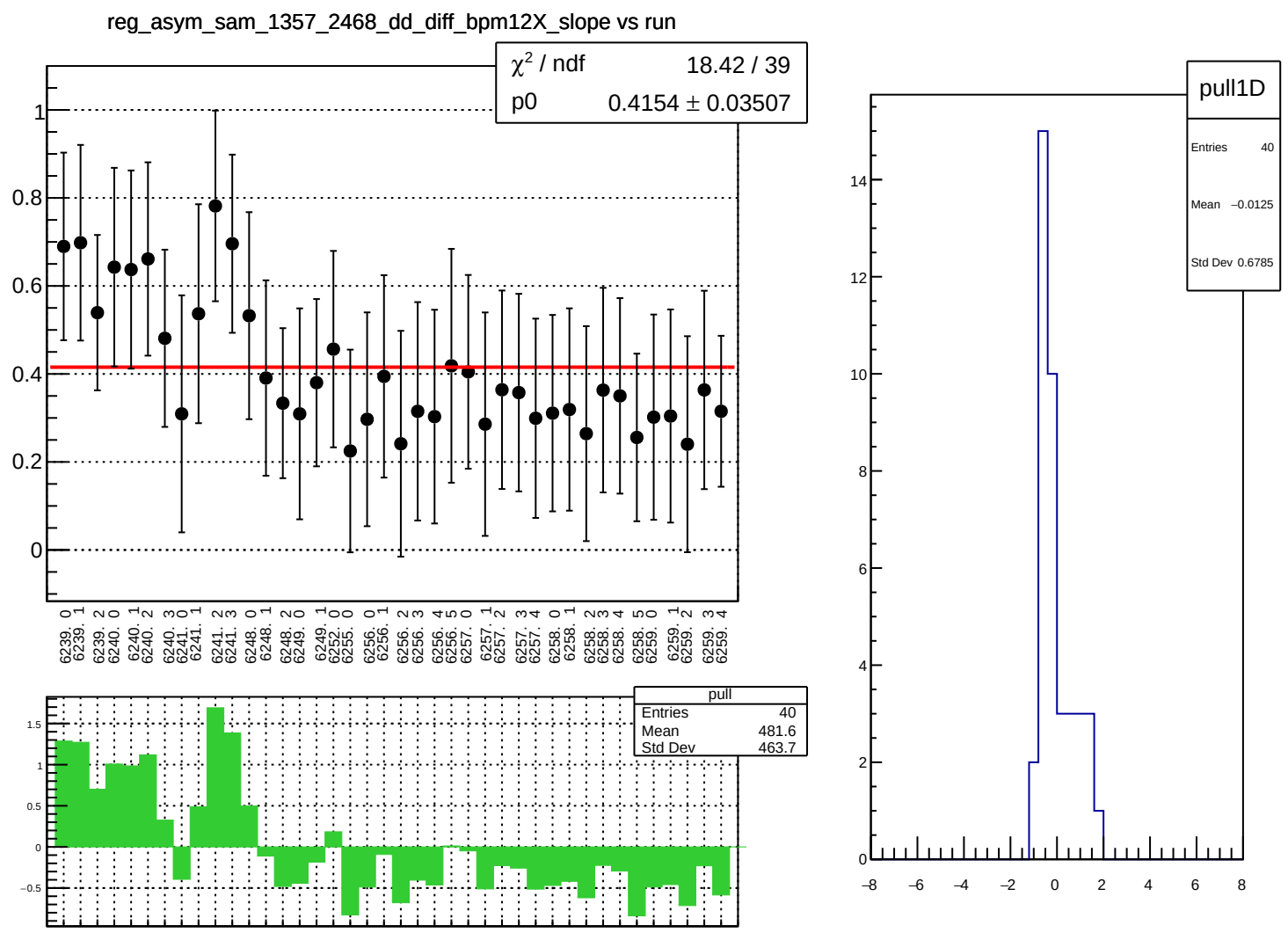

pull1D
Entries 40
Mean 0.01439
Std Dev 0.8152

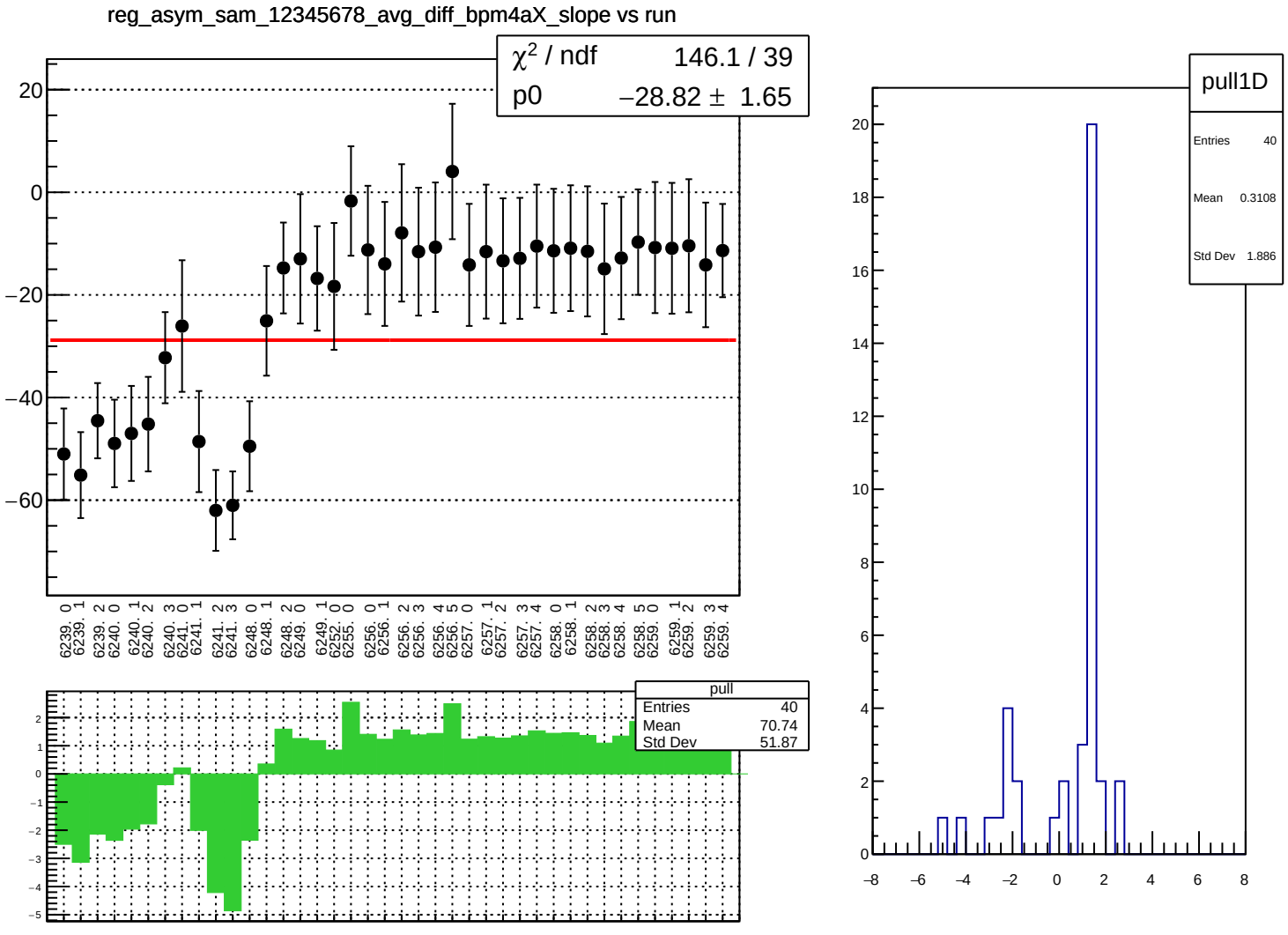

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 88.46 / 39
p0 11.4 ± 0.6395
pull
Entries 40
Mean 70.9
Std Dev 51.9
pull1D
Entries 40
Mean −0.2447
Std Dev 1.467

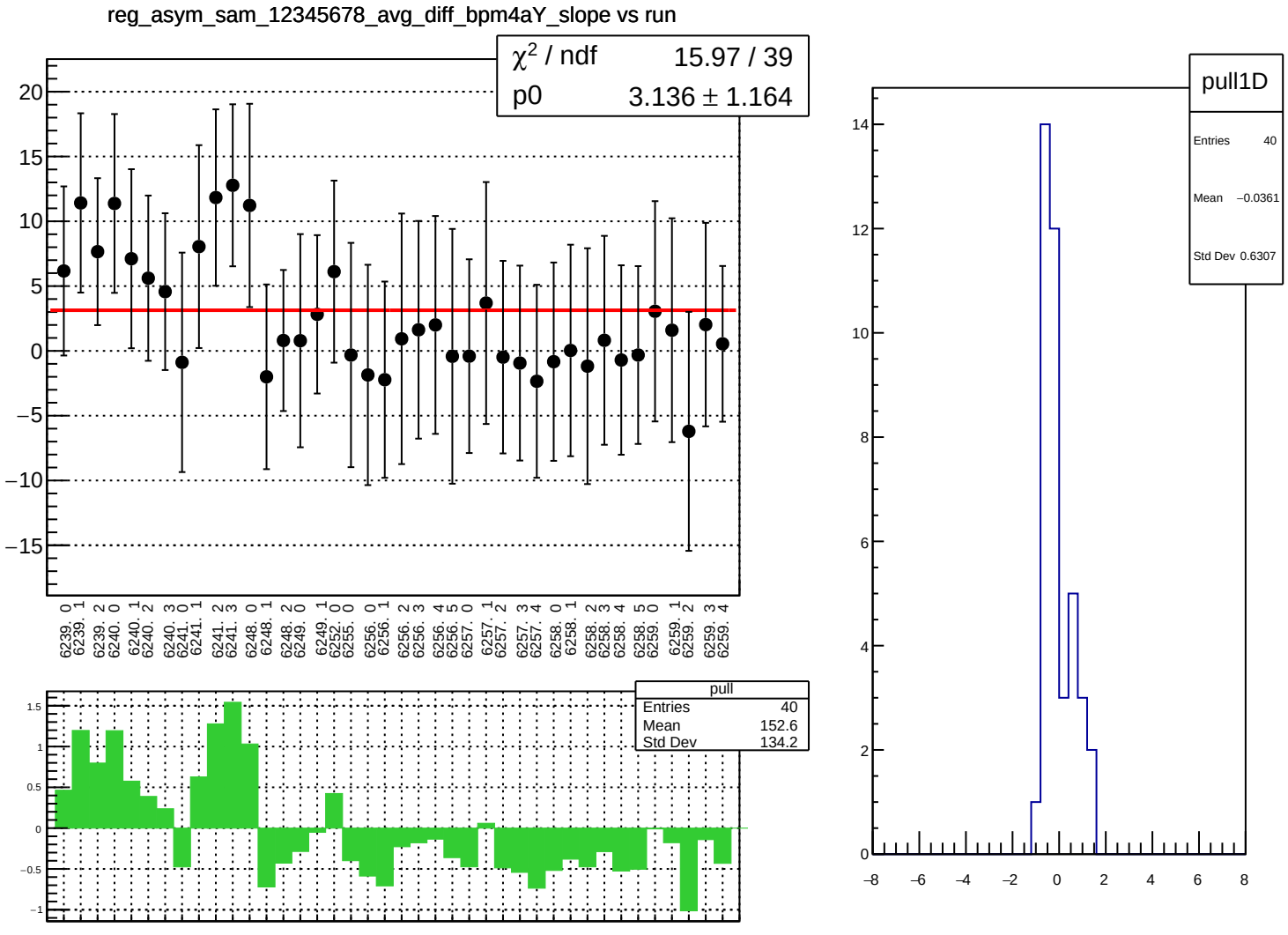

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.48 / 39
p0 0.6488 ± 0.4508
pull
Entries 40
Mean 159.1
Std Dev 140.9
pull1D
Entries 40
Mean 0.03049
Std Dev 0.5348

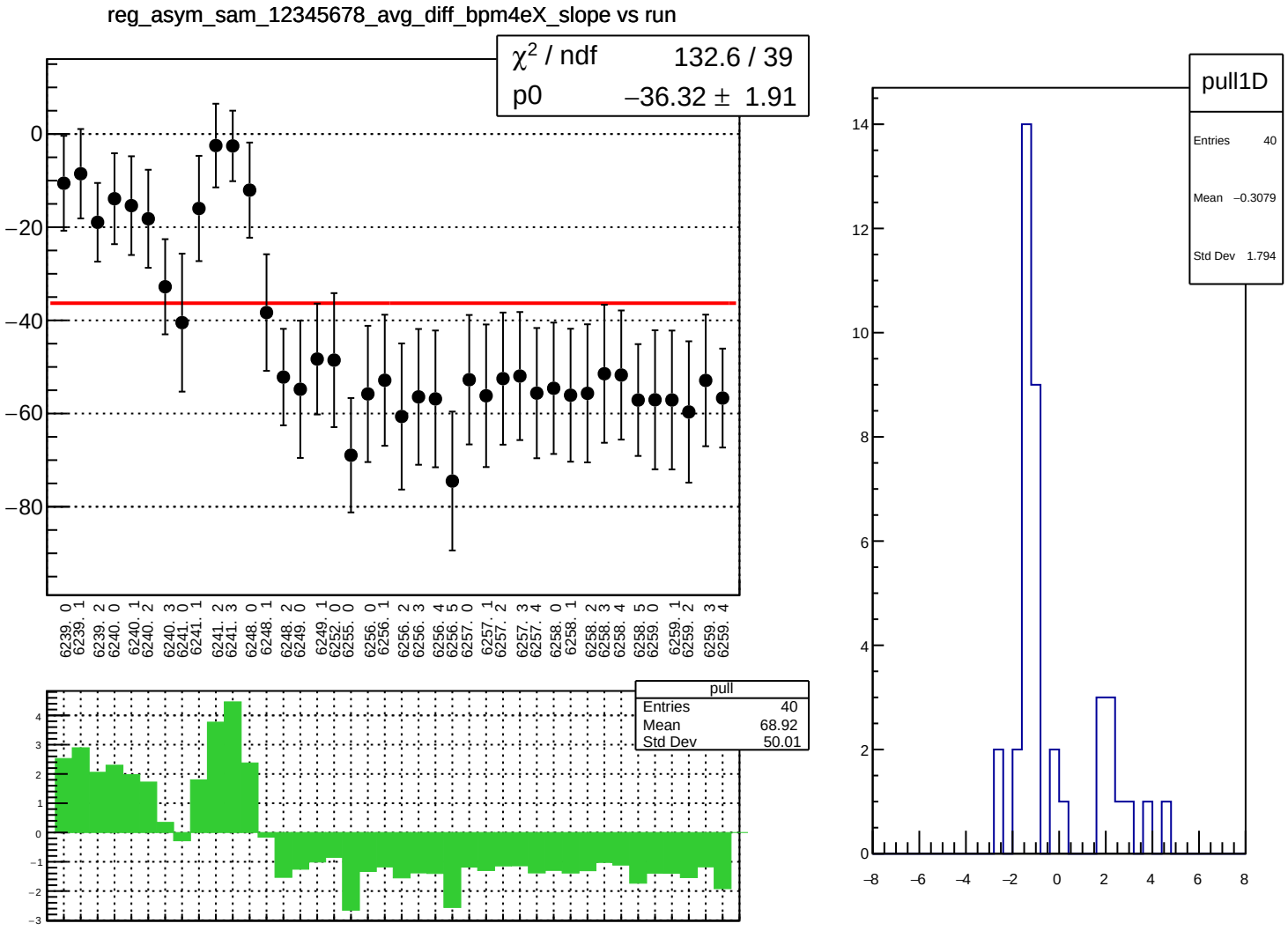

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.29 / 39
p0 14.13 ± 0.7401
30
25
20
15
10
5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 69.18
Std Dev 50.15
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean 0.2447
Std Dev 1.404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

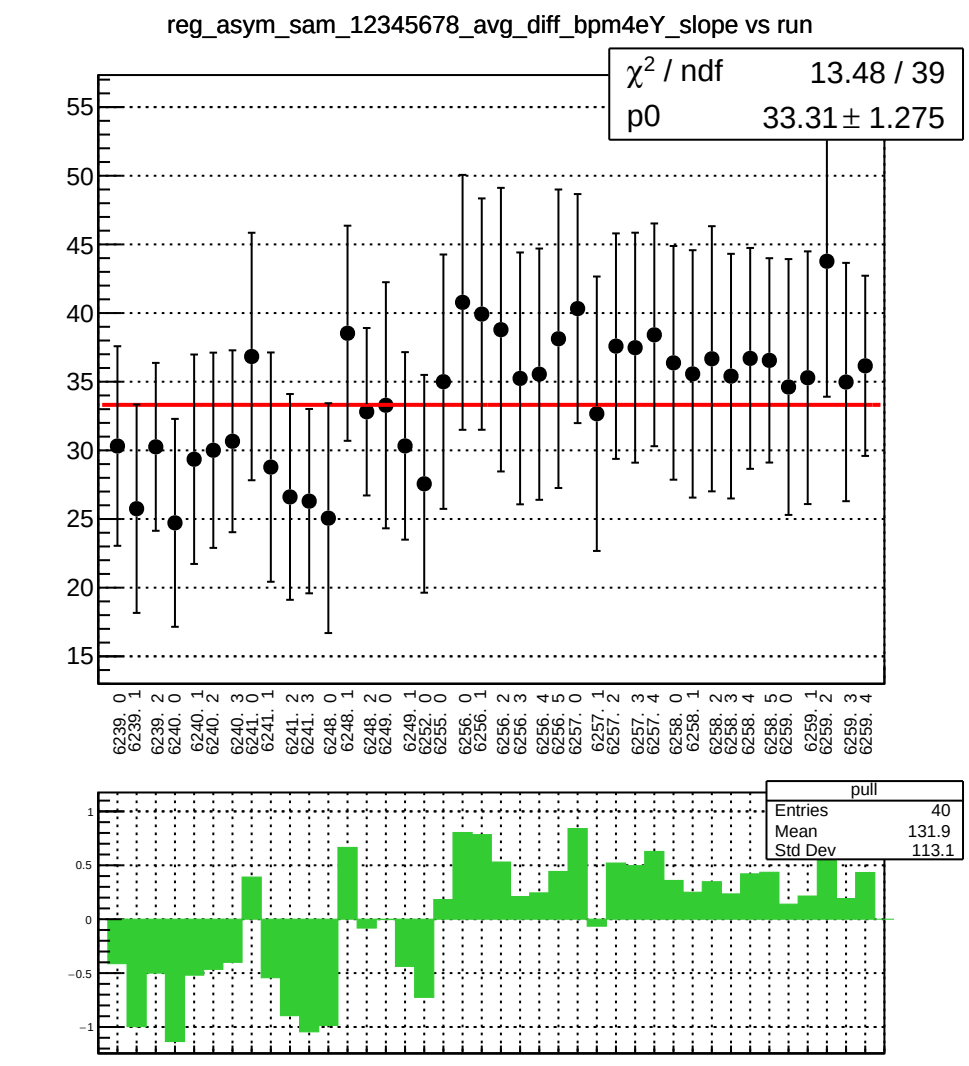

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.45 / 39
p0 −6.248 ± 0.494
pull
Entries 40
Mean 141.9
Std Dev 123.4
pull1D
Entries 40
Mean −0.03495
Std Dev 0.5098

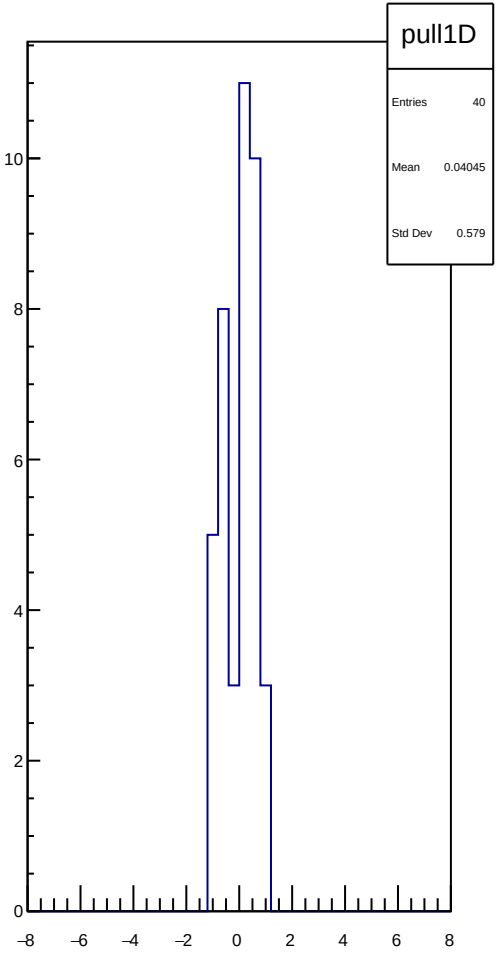

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 18.42 / 39
p0 0.4154 ± 0.03507
pull
Entries 40
Mean 481.6
Std Dev 463.7
pull1D
Entries 40
Mean −0.0125
Std Dev 0.6785

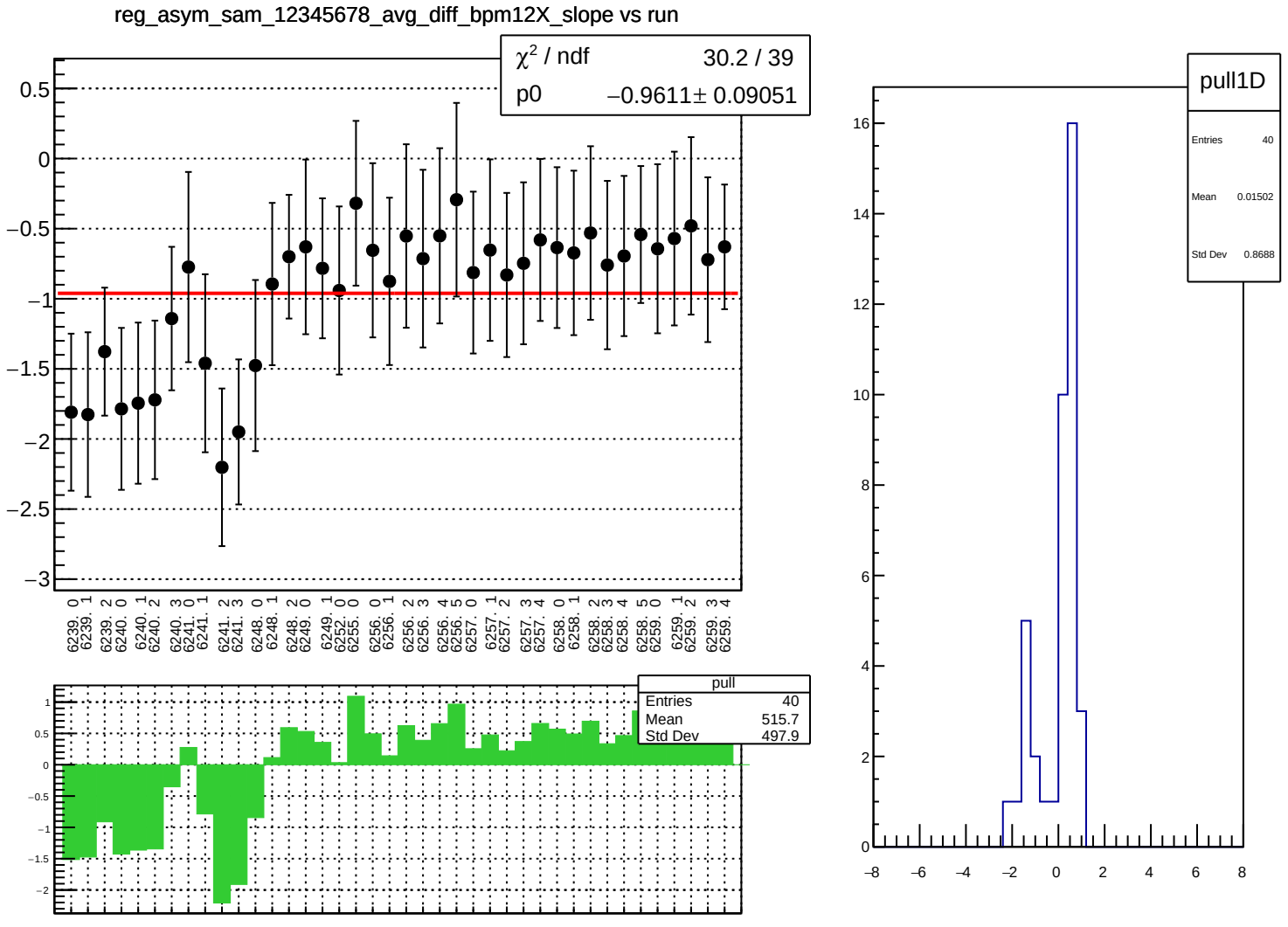

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 146.1 / 39
p0 −28.82 ± 1.65
20
0
−20
−40
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 70.74
Std Dev 51.87
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 40
Mean 0.3108
Std Dev 1.886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

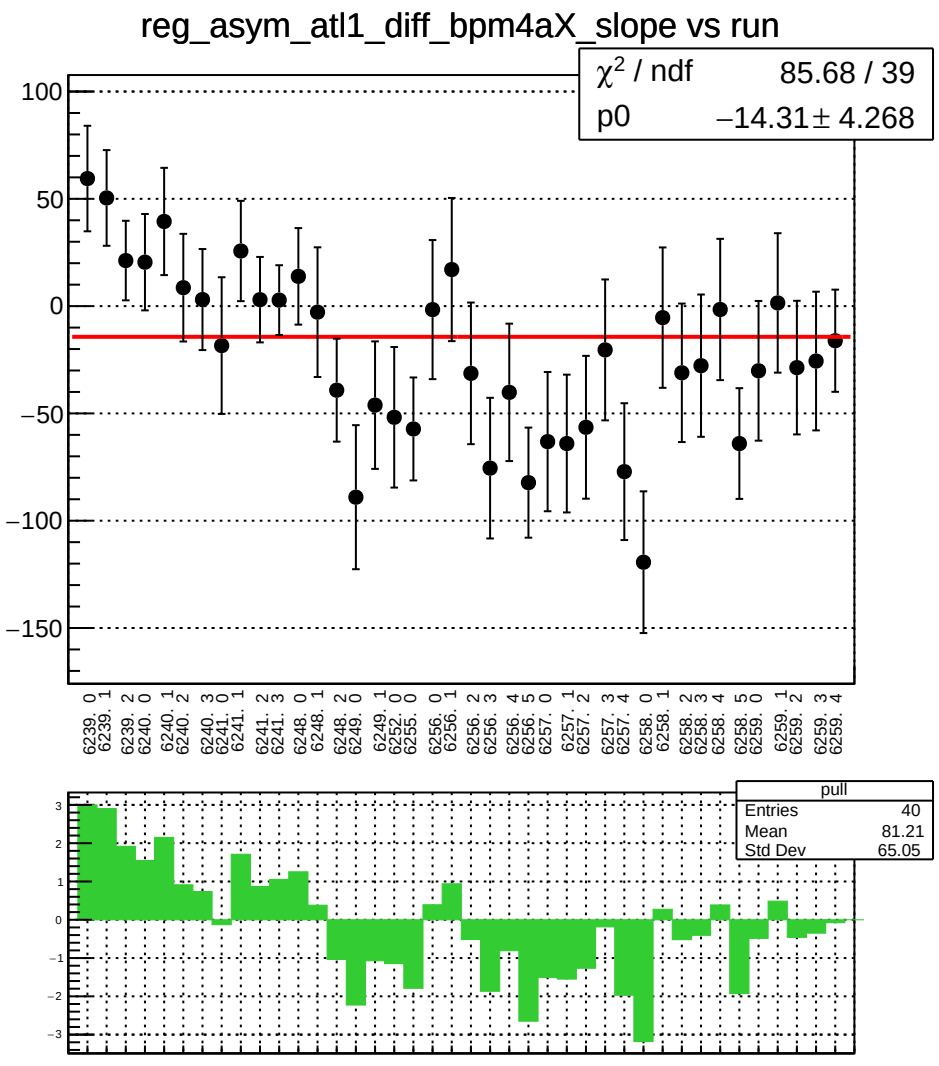

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.97 / 39
p0 3.136 ± 1.164
pull
Entries 40
Mean 152.6
Std Dev 134.2
pull1D
Entries 40
Mean −0.0361
Std Dev 0.6307

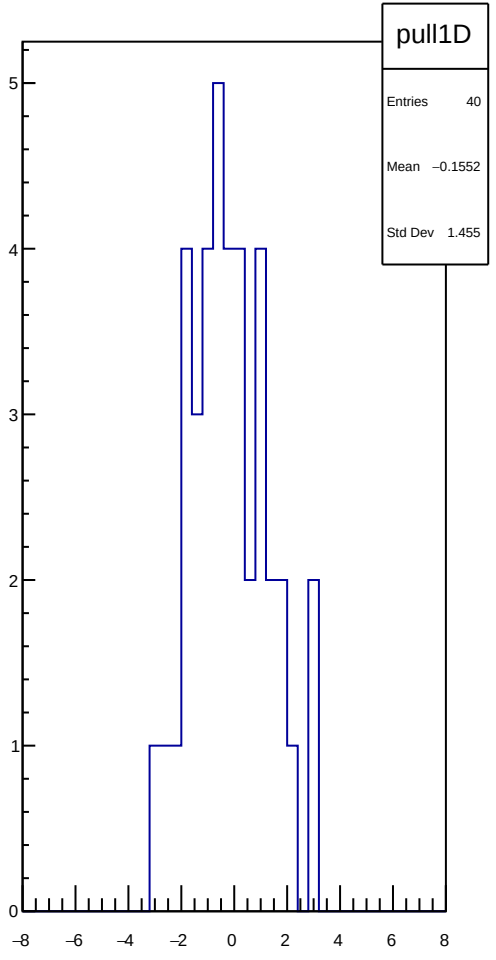

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 132.6 / 39
p0 −36.32 ± 1.91
0
−20
−40
−60
−80
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 68.92
Std Dev 50.01
4
3
2
1
0
−1
−2
−3
pull1D
Entries 40
Mean −0.3079
Std Dev 1.794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

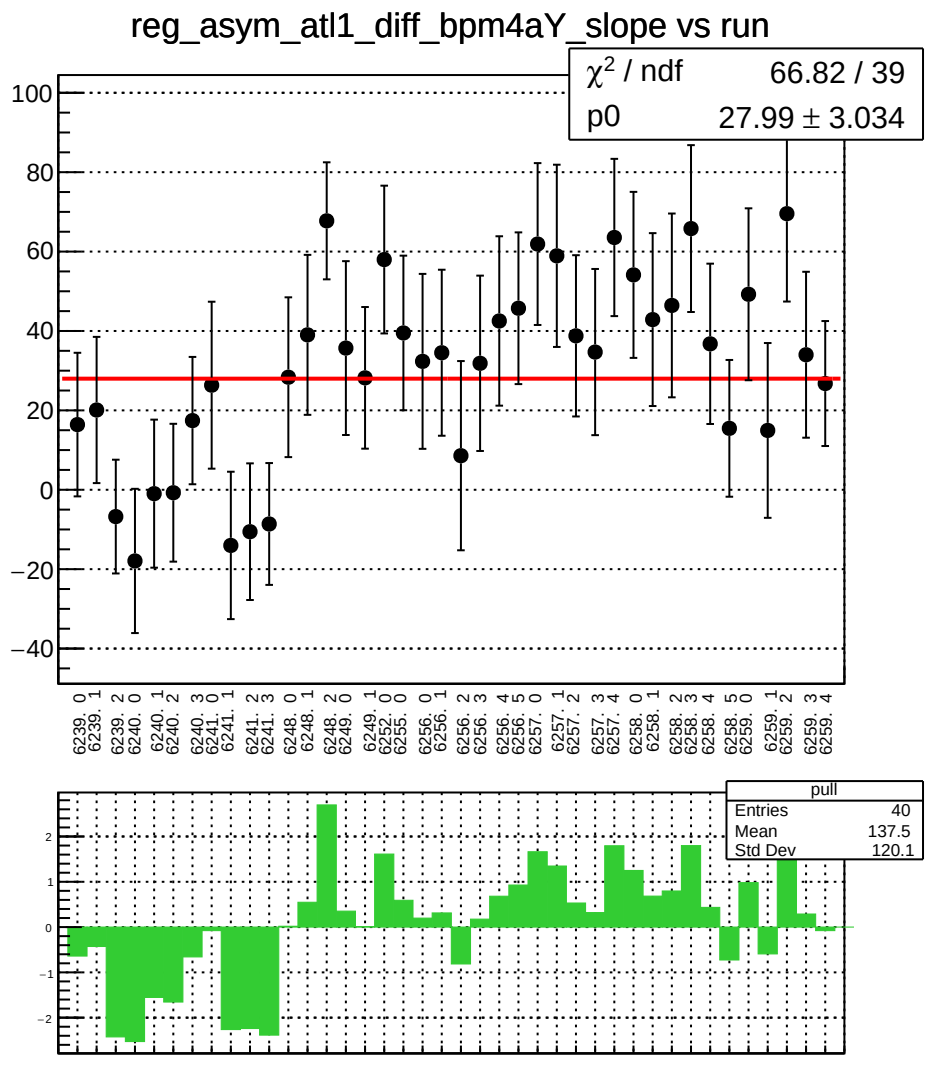

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.48 / 39
p0 33.31 ± 1.275
pull
Entries 40
Mean 131.9
Std Dev 113.1

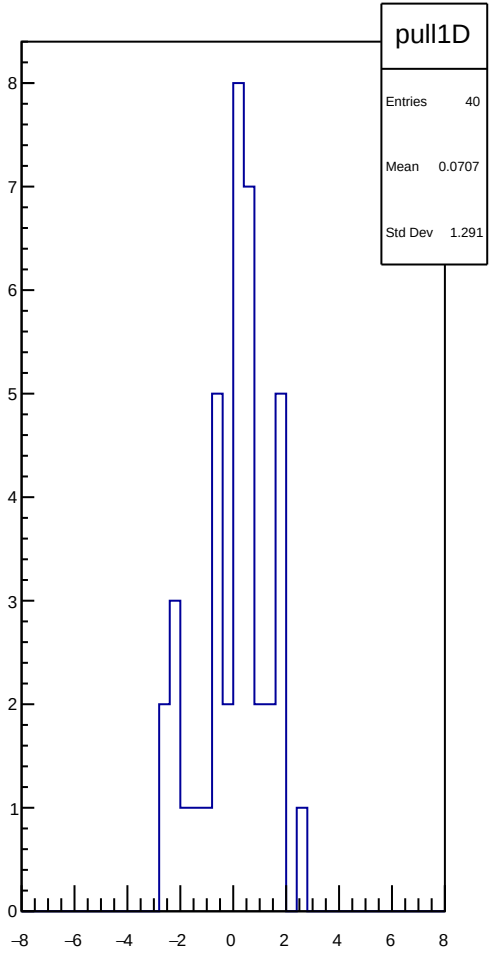

pull1D
Entries 40
Mean 0.04045
Std Dev 0.579

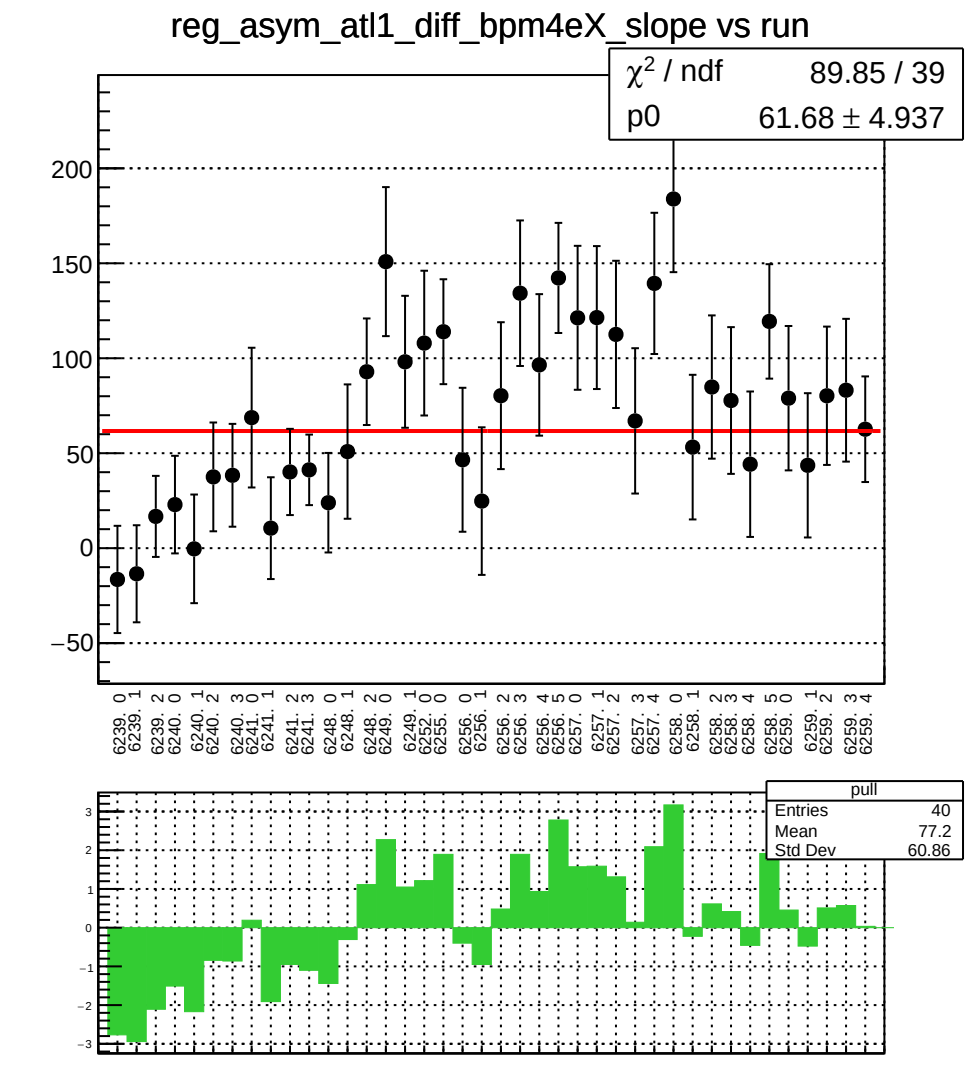

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 30.2 / 39
p0 −0.9611± 0.09051
pull
Entries 40
Mean 515.7
Std Dev 497.9
pull1D
Entries 40
Mean 0.01502
Std Dev 0.8688

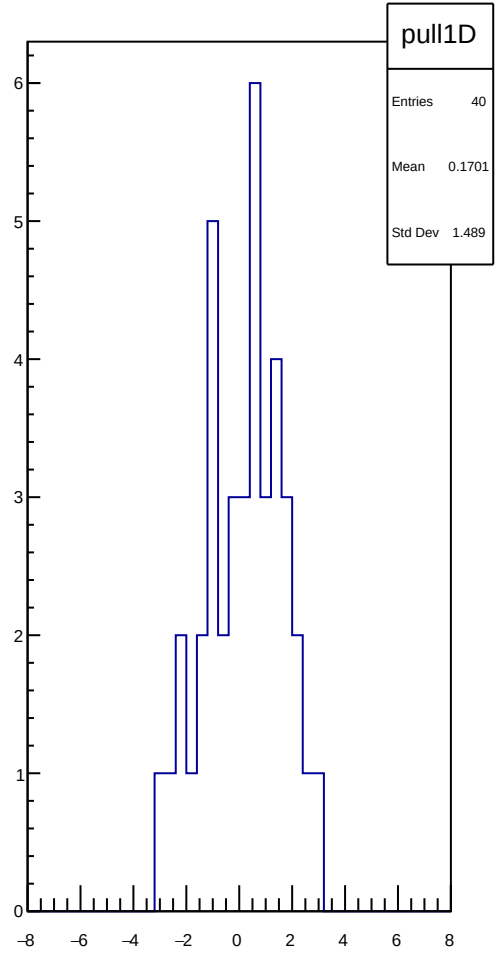

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 85.68 / 39
p0 −14.31 ± 4.268
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 81.21
Std Dev 65.05
3
2
1
0
−1
−2
−3

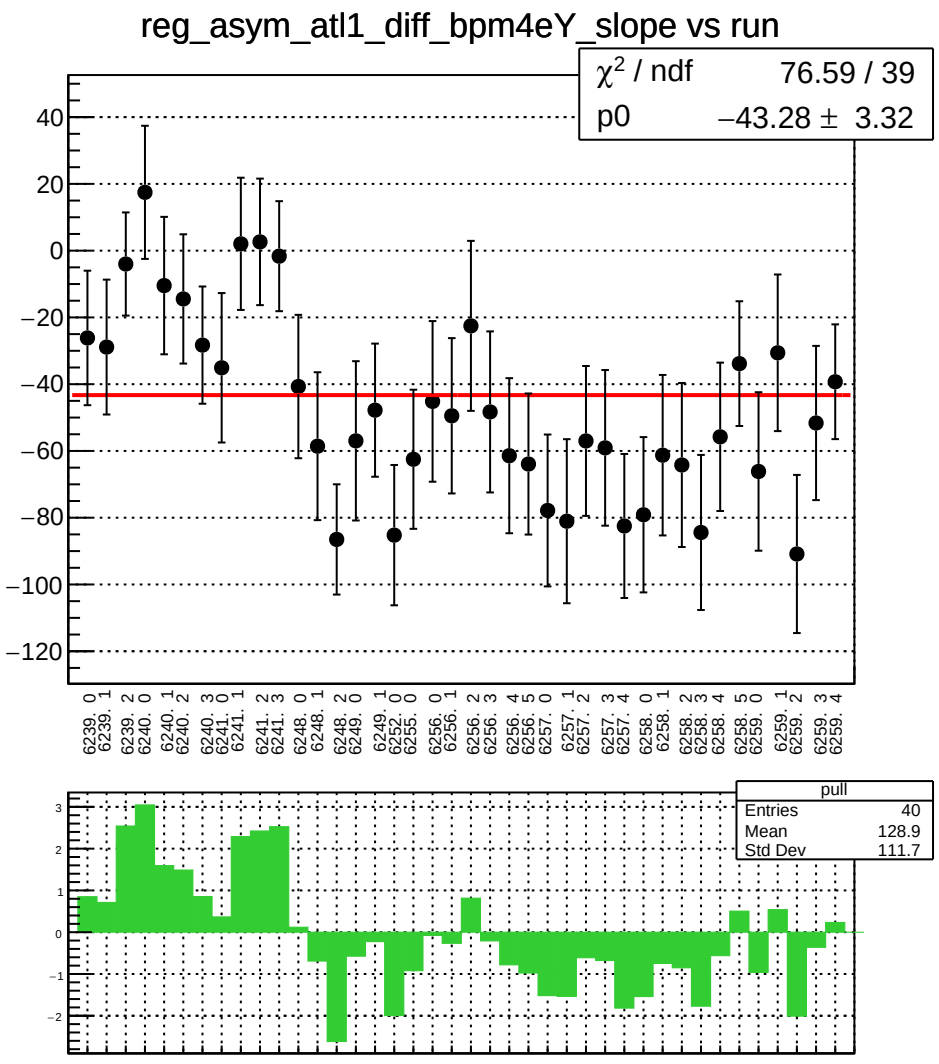

pull1D
Entries 40
Mean −0.1552
Std Dev 1.455
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

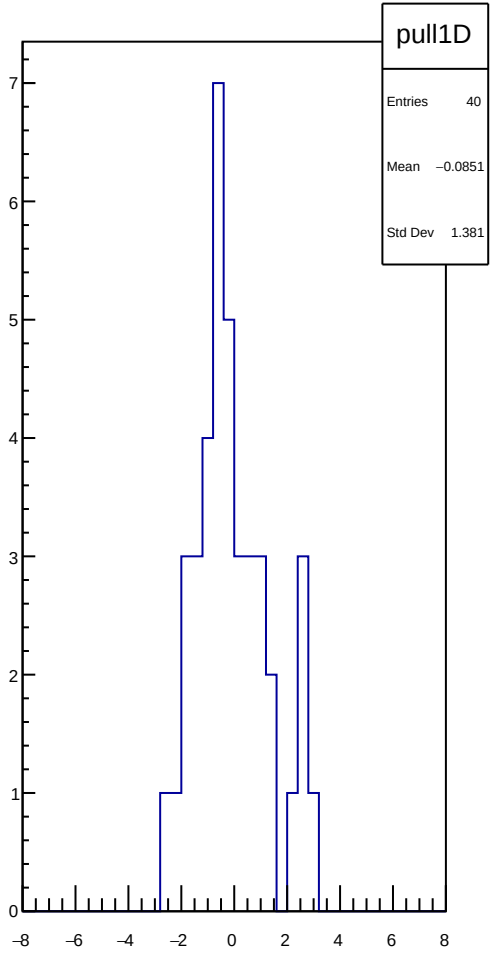

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 66.82 / 39
p0 27.99 ± 3.034
pull
Entries 40
Mean 137.5
Std Dev 120.1

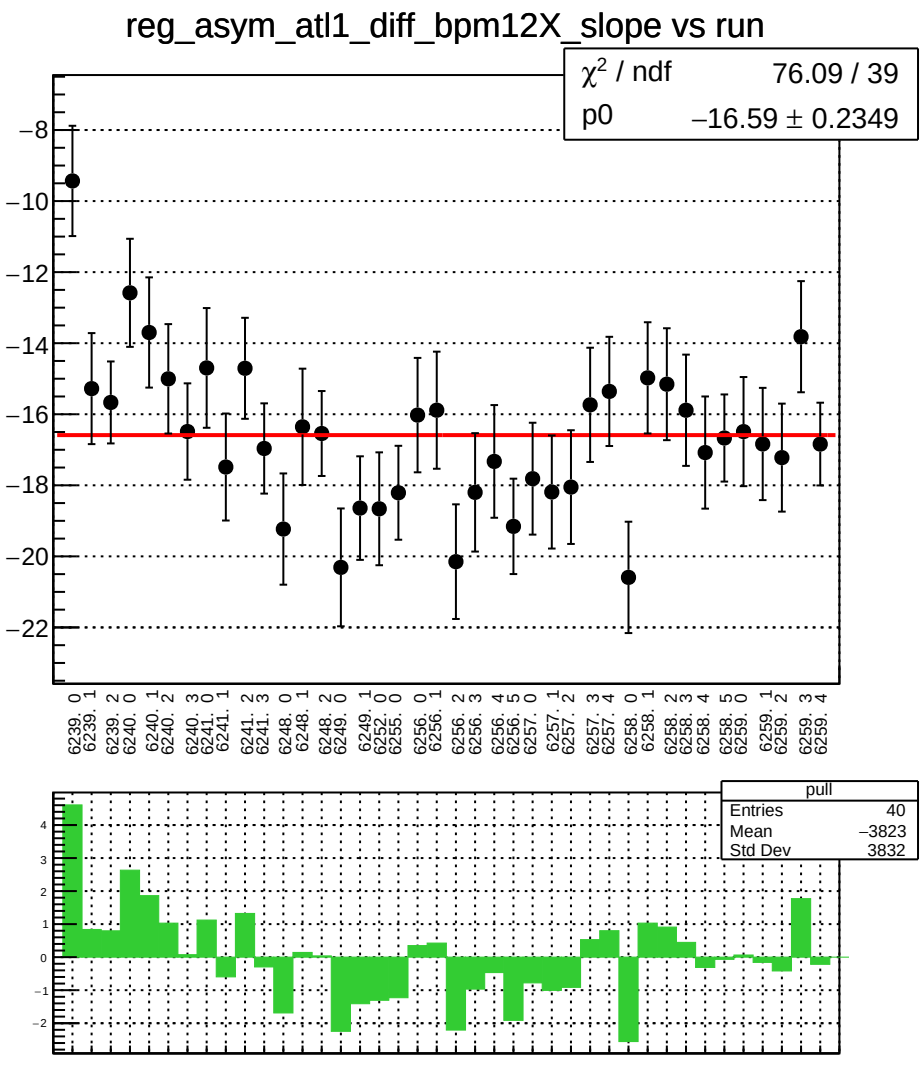

pull1D
Entries 40
Mean 0.0707
Std Dev 1.291

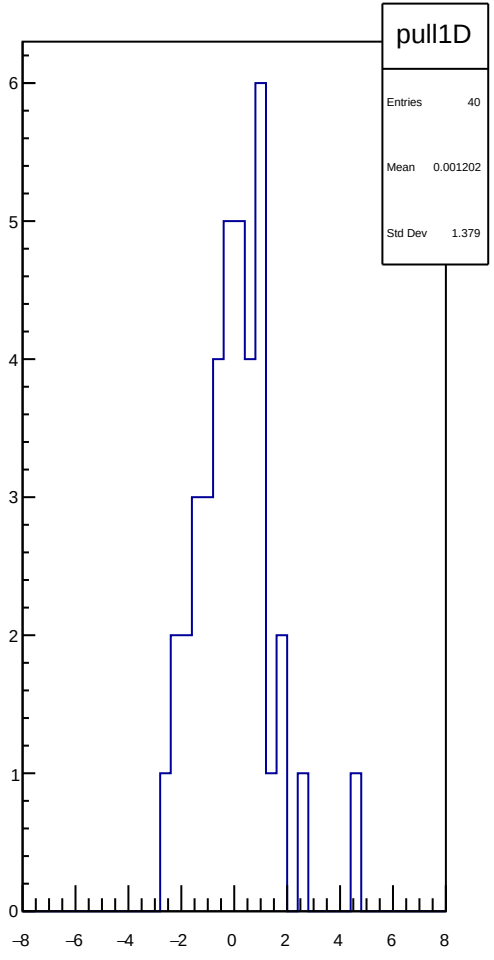

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 89.85 / 39
p0 61.68 ± 4.937
pull
Entries 40
Mean 77.2
Std Dev 60.86

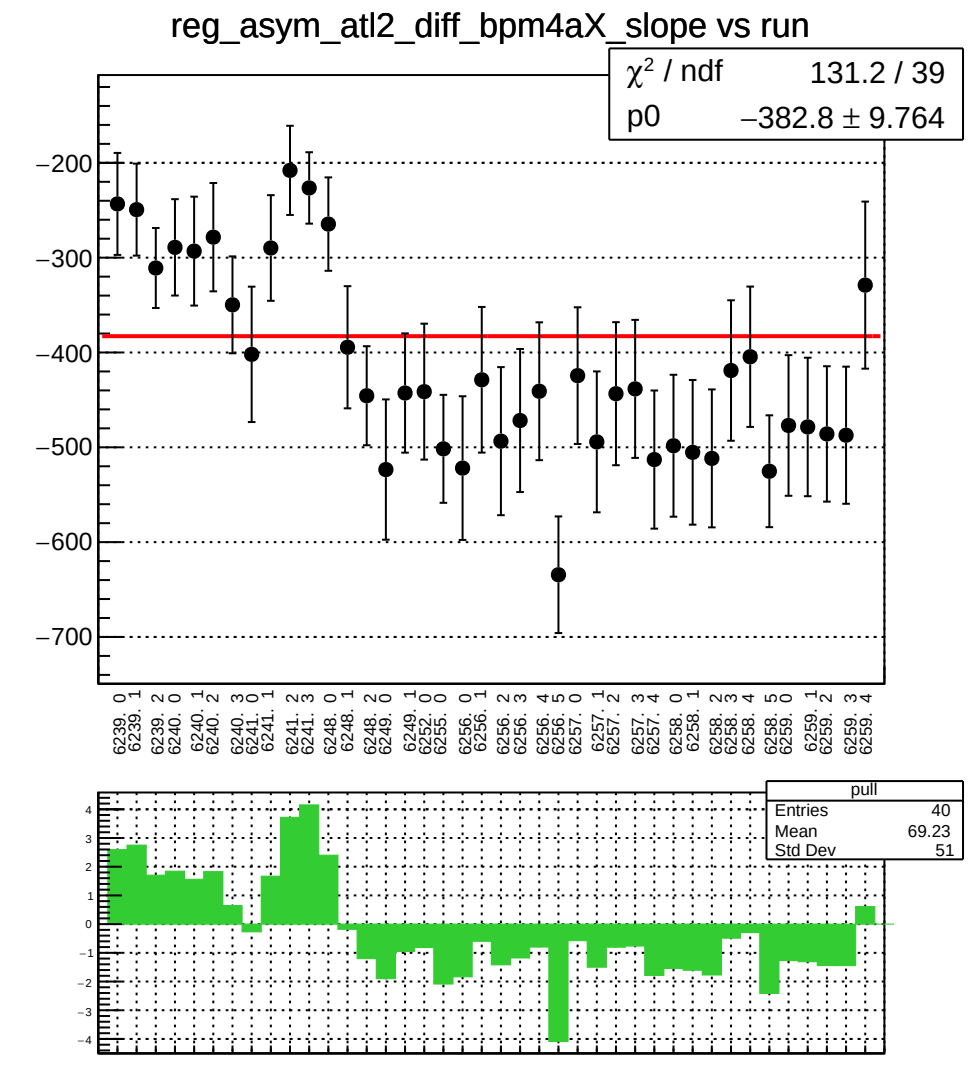

pull1D
Entries 40
Mean 0.1701
Std Dev 1.489

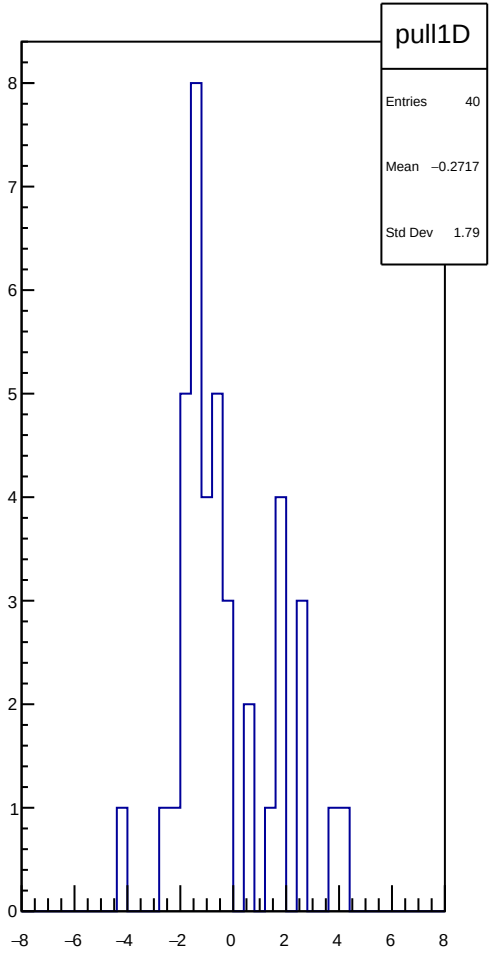

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 76.59 / 39
p0 −43.28 ± 3.32
pull
Entries 40
Mean 128.9
Std Dev 111.7

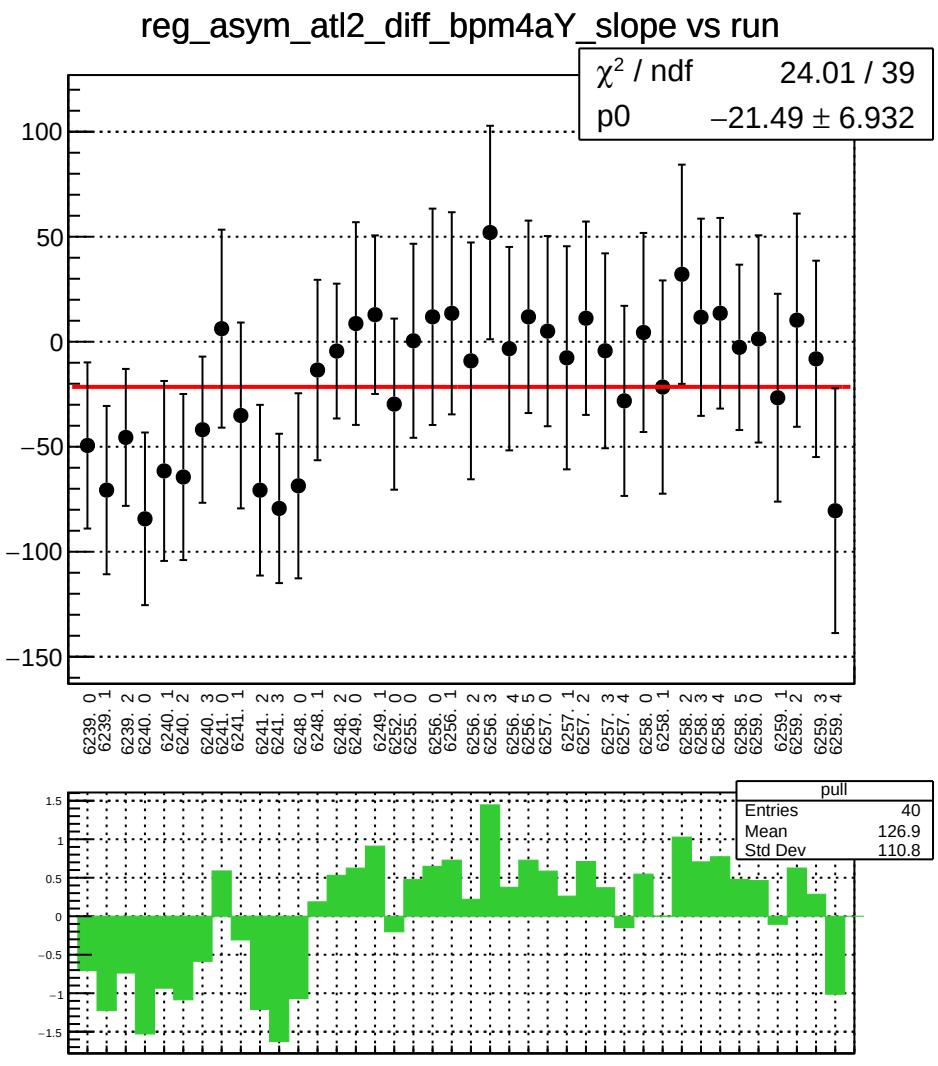

pull1D
Entries 40
Mean −0.0851
Std Dev 1.381

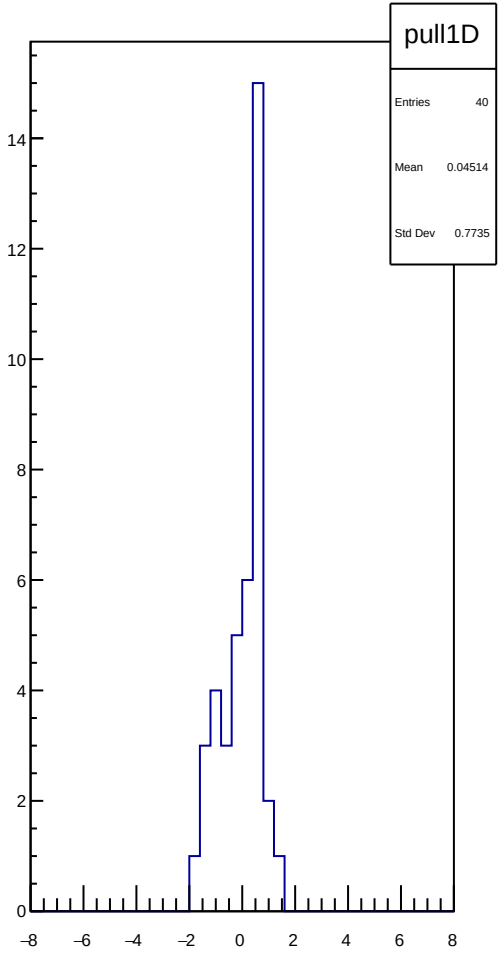

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 76.09 / 39
p0 −16.59 ± 0.2349
−8
−10
−12
−14
−16
−18
−20
−22
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean −3823
Std Dev 3832
4
3
2
1
0
−1
−2

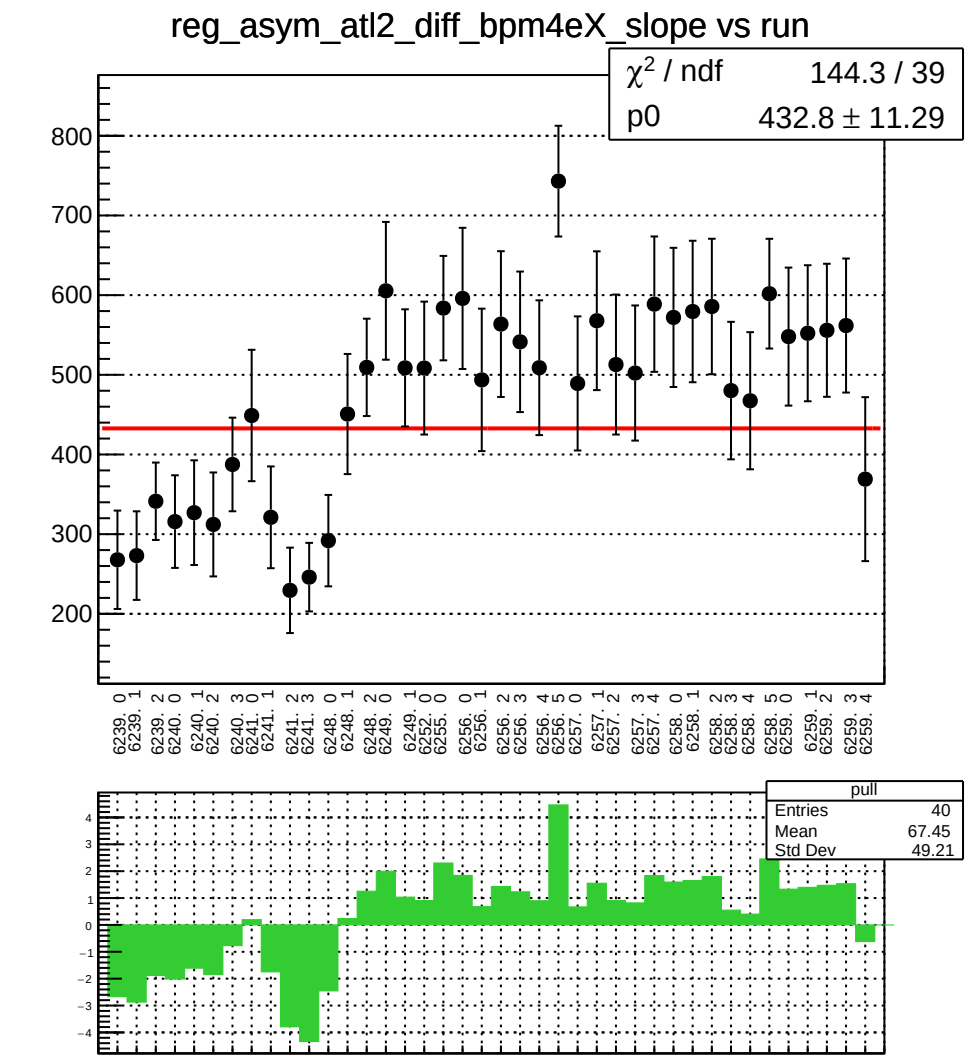

pull1D
Entries 40
Mean 0.001202
Std Dev 1.379
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

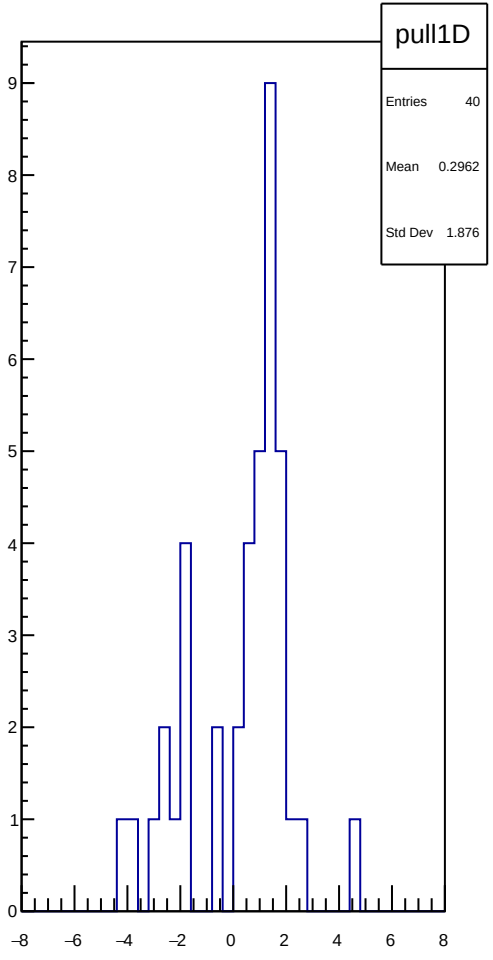

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 131.2 / 39
p0 −382.8 ± 9.764
−200
−300
−400
−500
−600
−700
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 69.23
Std Dev 51
4
3
2
1
0
−1
−2
−3
−4

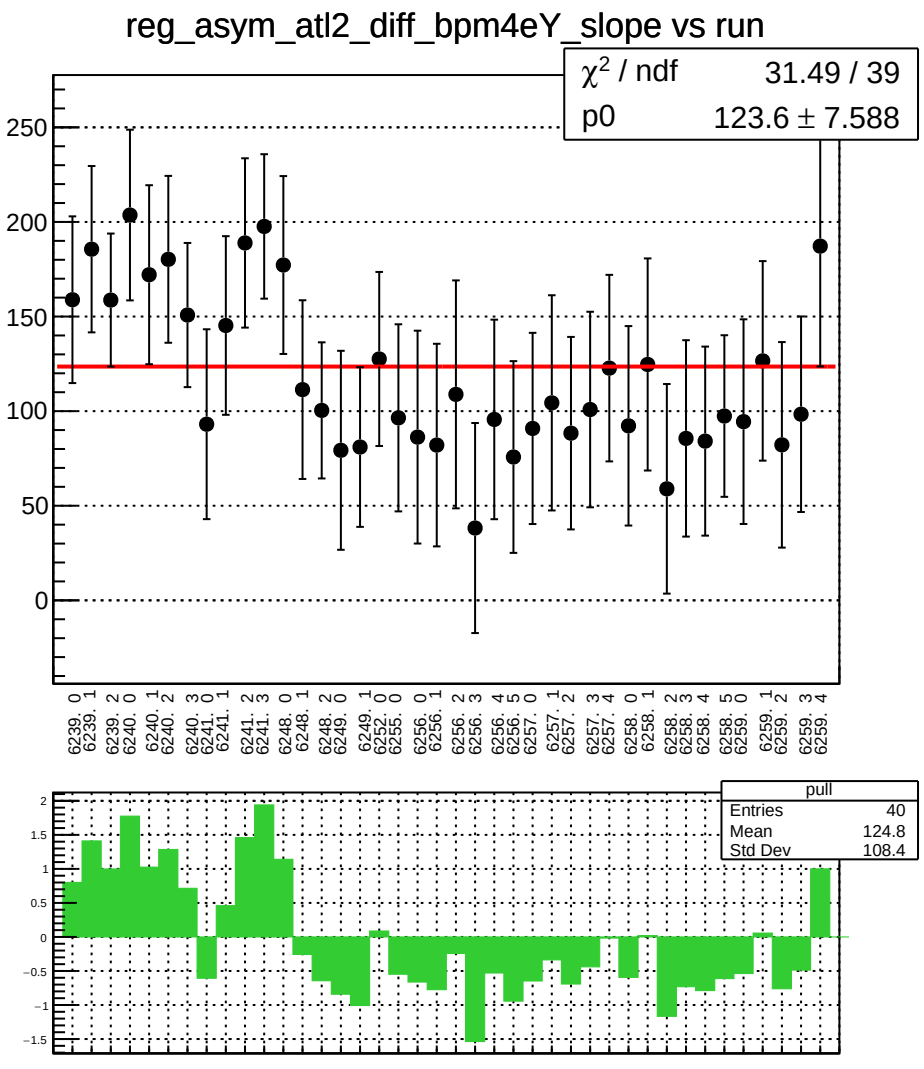

pull1D
Entries 40
Mean −0.2717
Std Dev 1.79
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

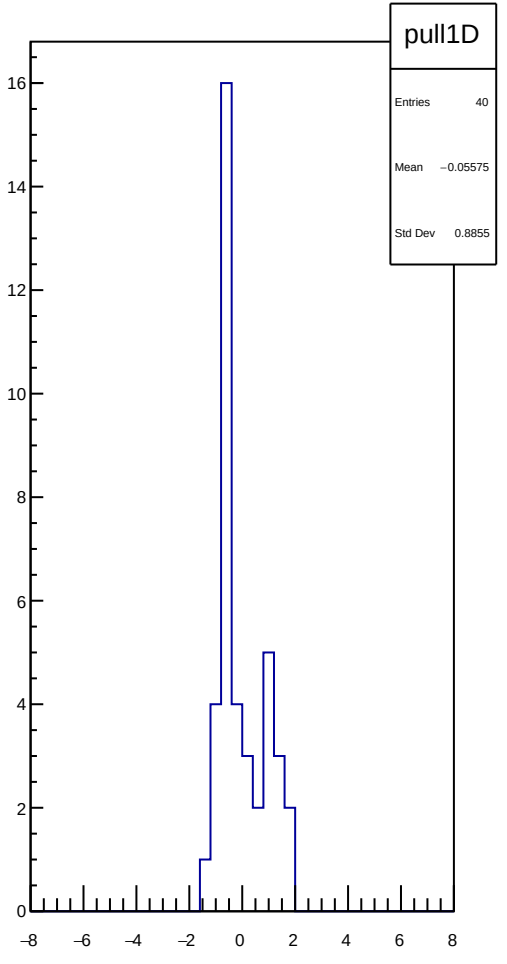

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 24.01 / 39
p0 −21.49 ± 6.932
100
50
0
−50
−100
−150
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 126.9
Std Dev 110.8
1.5
1
0.5
0
−0.5
−1
−1.5

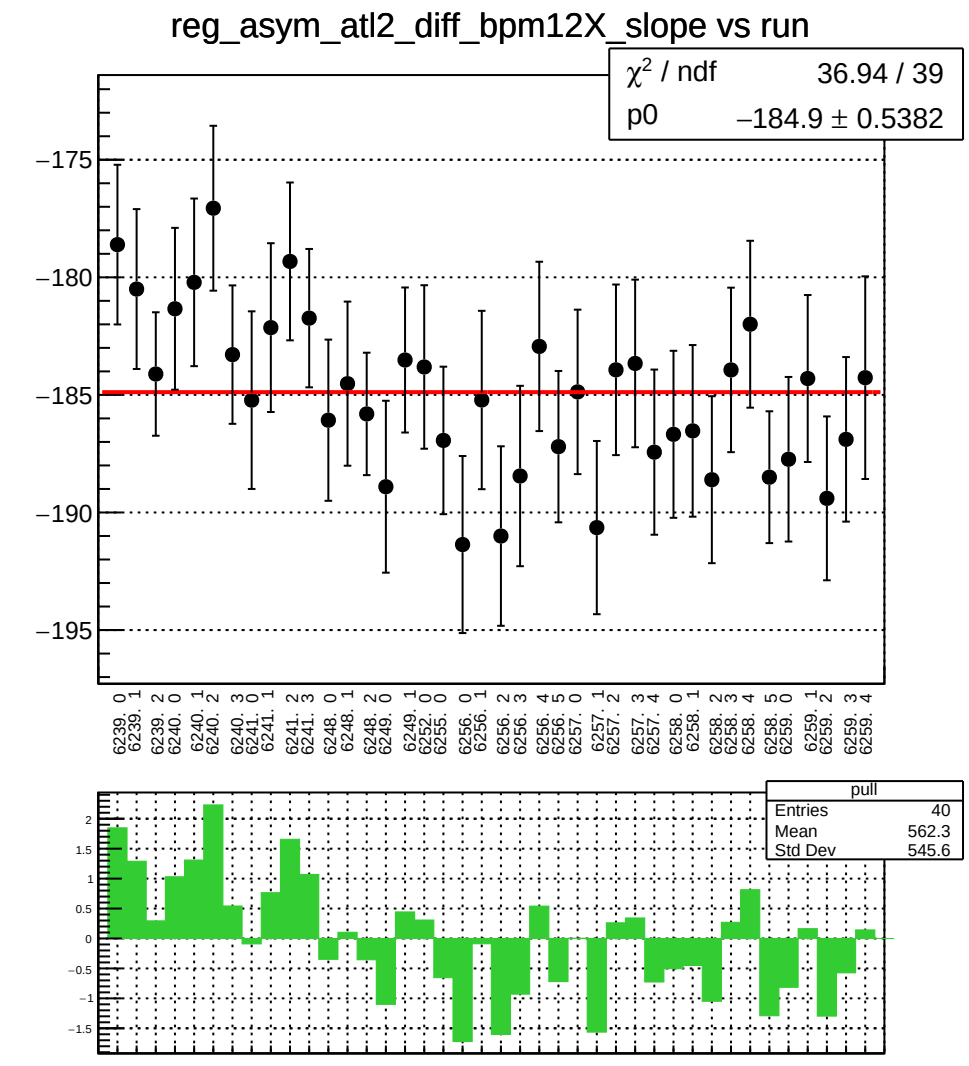

pull1D
Entries 40
Mean 0.04514
Std Dev 0.7735
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

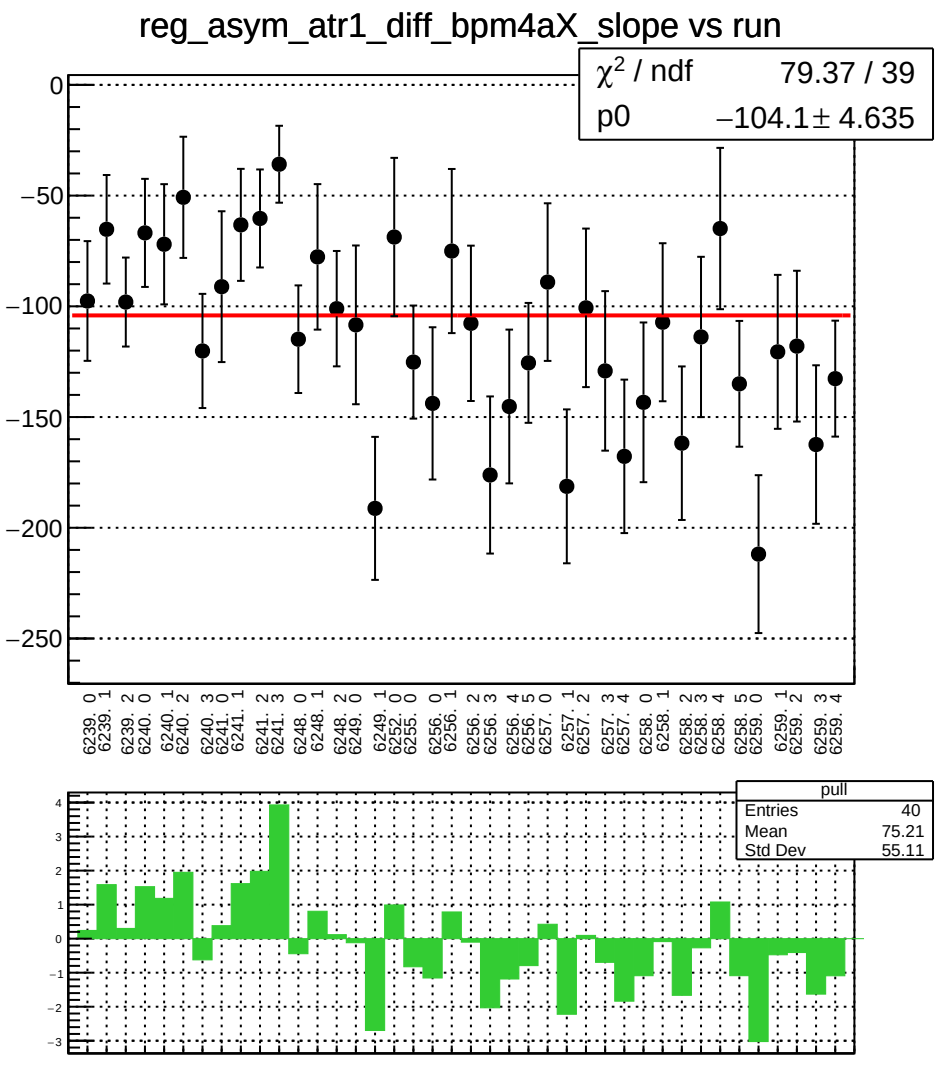

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 144.3 / 39
p0 432.8 ± 11.29
800
700
600
500
400
300
200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 67.45
Std Dev 49.21
4
3
2
1
0
−1
−2
−3
−4

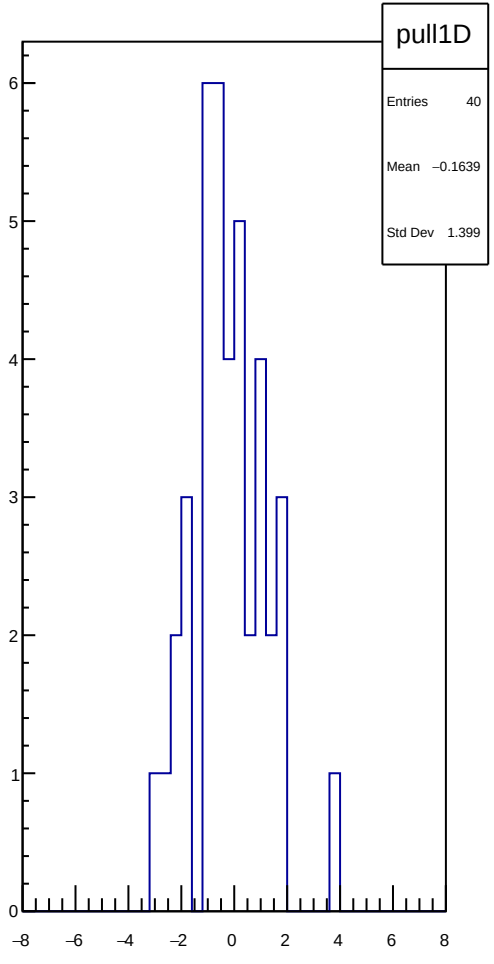

pull1D
Entries 40
Mean 0.2962
Std Dev 1.876
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

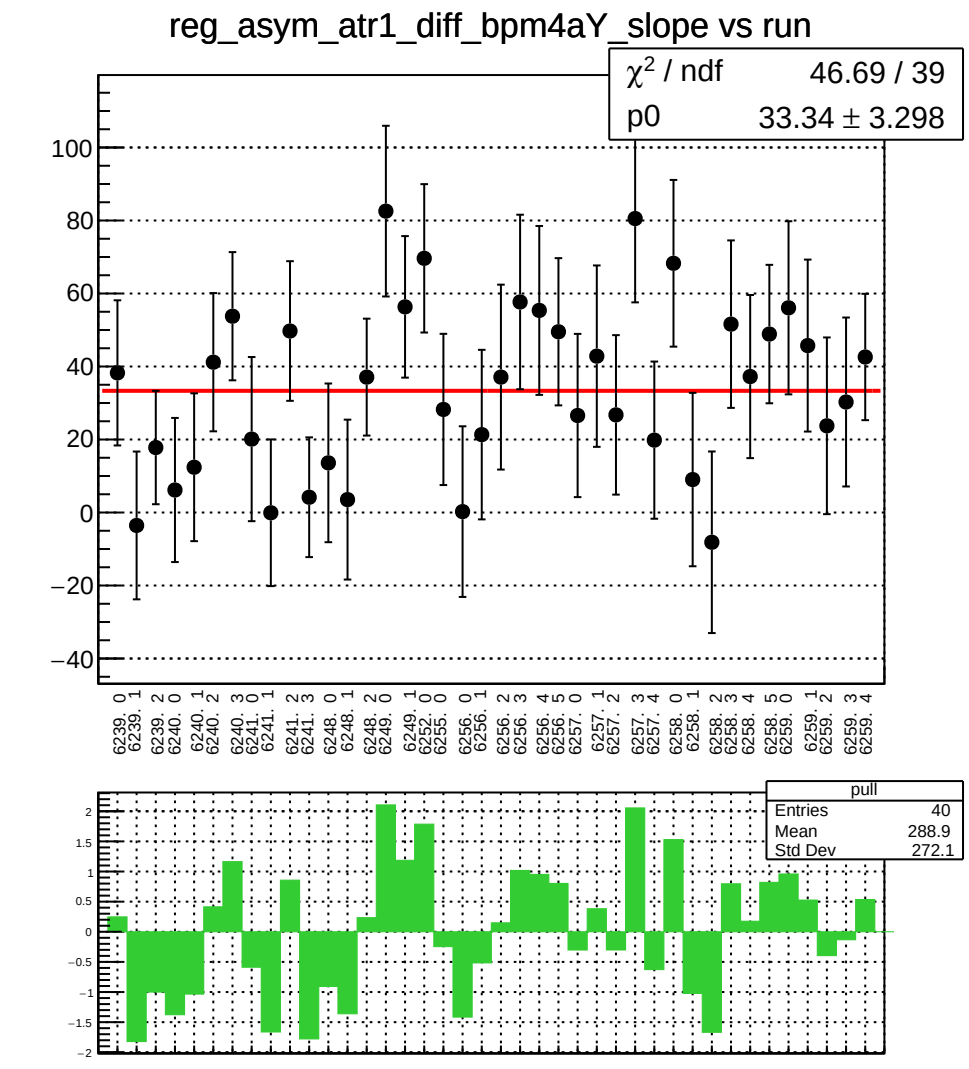

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 31.49 / 39
p0 123.6 ± 7.588
250
200
150
100
50
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 124.8
Std Dev 108.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

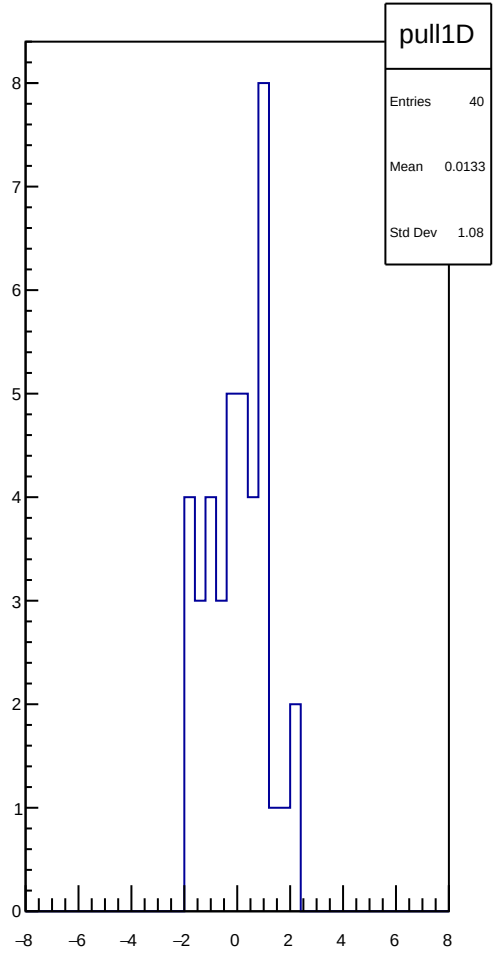

pull1D
Entries 40
Mean −0.05575
Std Dev 0.8855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

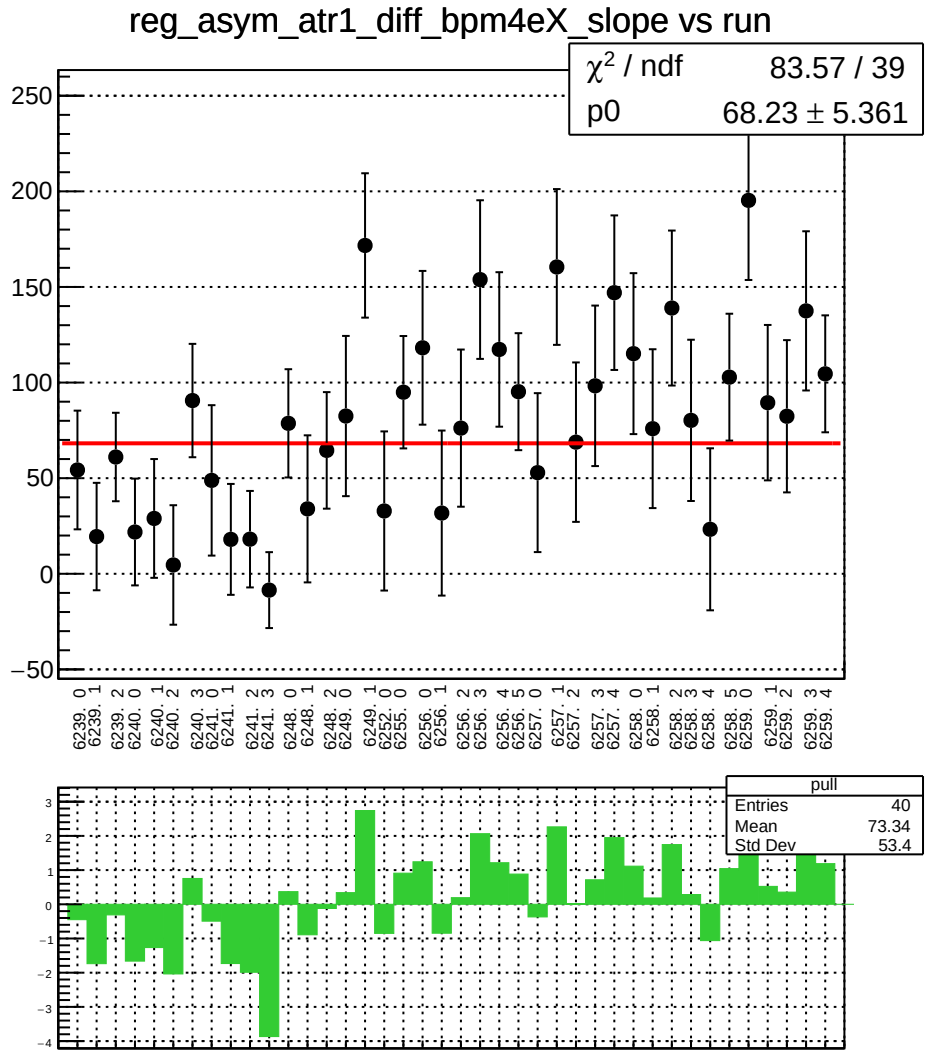

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 36.94 / 39
p0 −184.9 ± 0.5382
−175
−180
−185
−190
−195
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 562.3
Std Dev 545.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.01133
Std Dev 0.9609
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

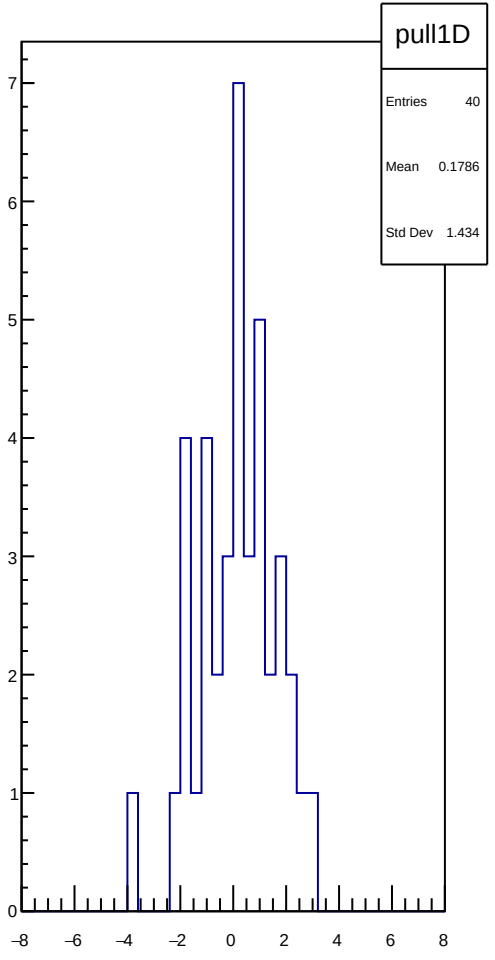

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 79.37 / 39
p0 −104.1± 4.635
pull
Entries 40
Mean 75.21
Std Dev 55.11

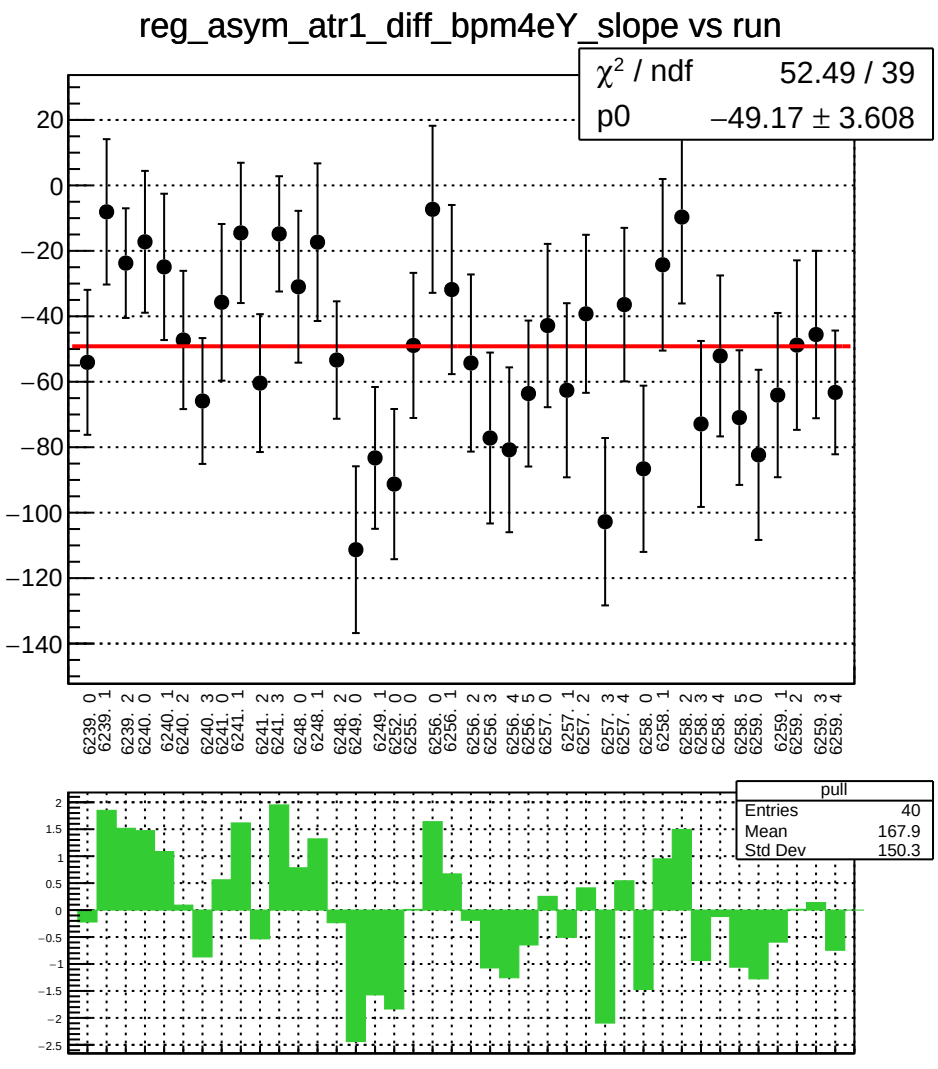

pull1D
Entries 40
Mean −0.1639
Std Dev 1.399

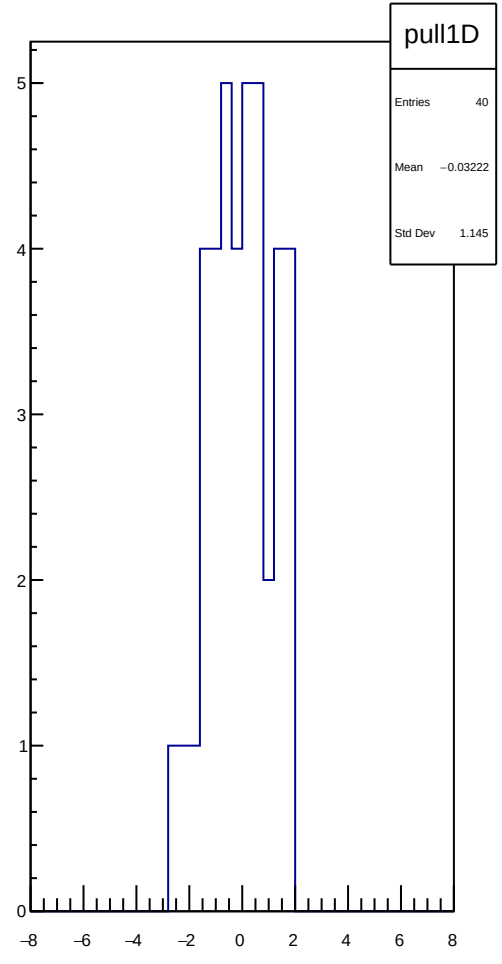

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 46.69 / 39
p0 33.34 ± 3.298
pull
Entries 40
Mean 288.9
Std Dev 272.1

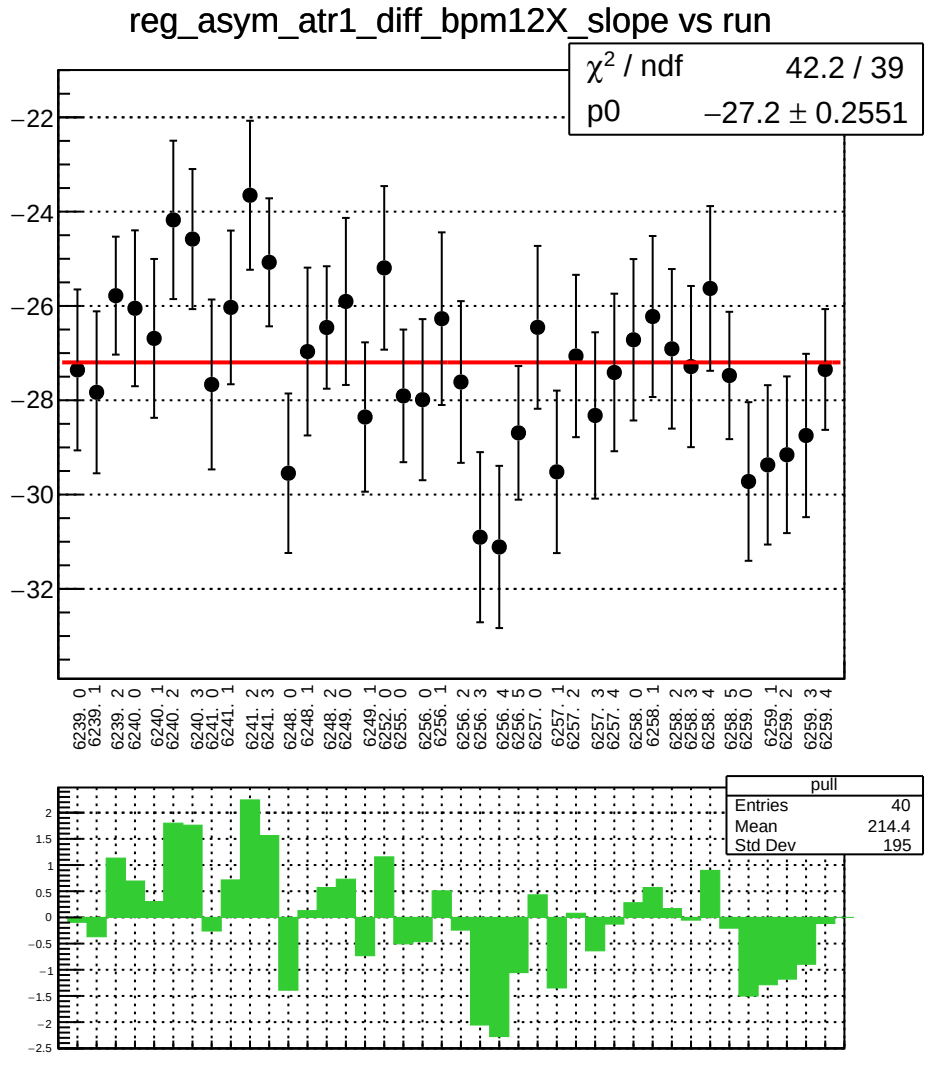

pull1D
Entries 40
Mean 0.0133
Std Dev 1.08

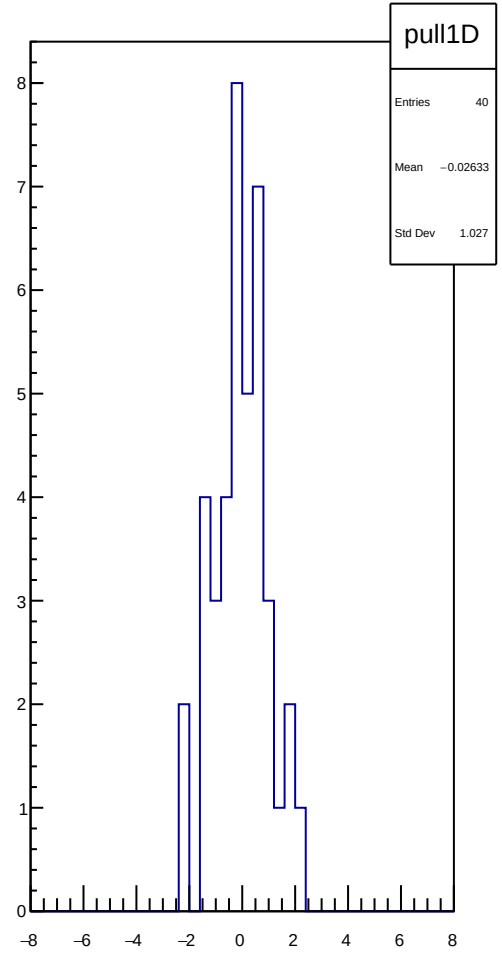

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 83.57 / 39
p0 68.23 ± 5.361
250
200
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 73.34
Std Dev 53.4
3
2
1
0
−1
−2
−3
−4

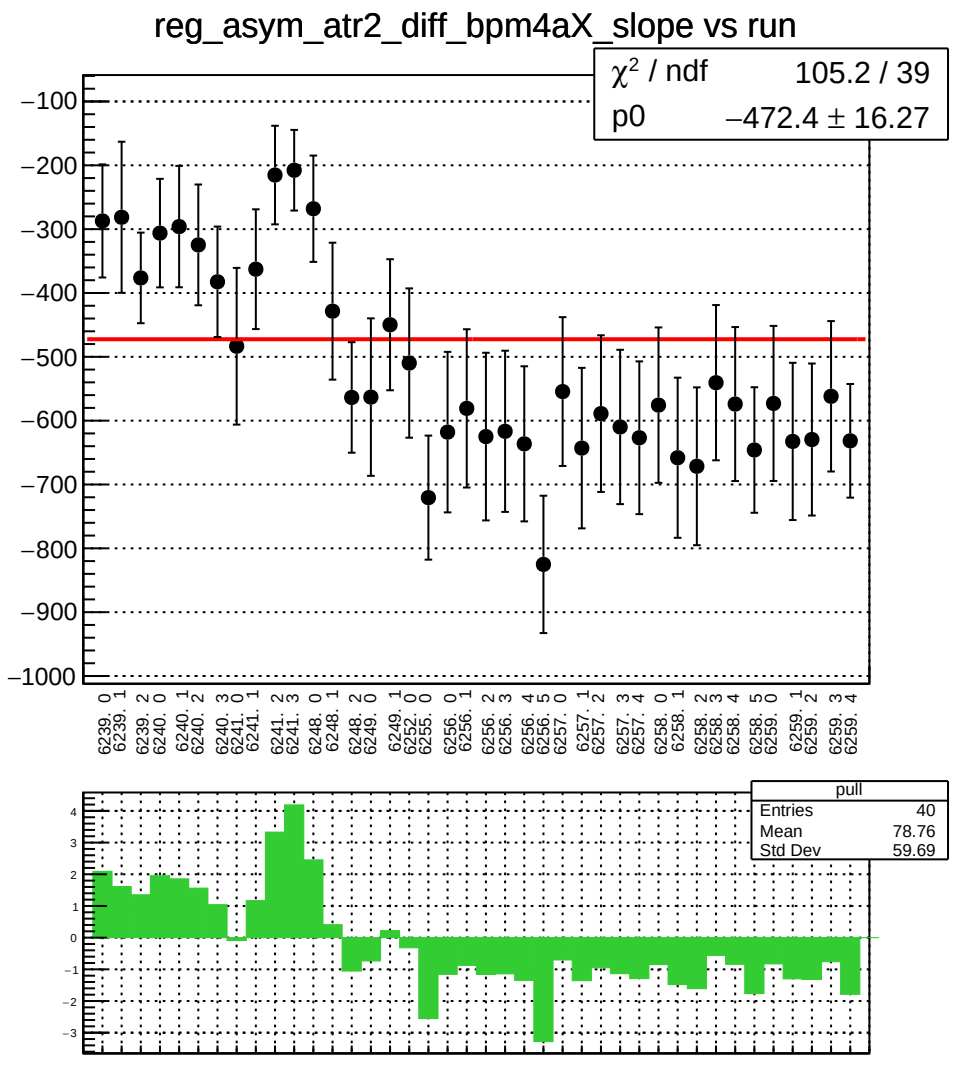

pull1D
Entries 40
Mean 0.1786
Std Dev 1.434
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

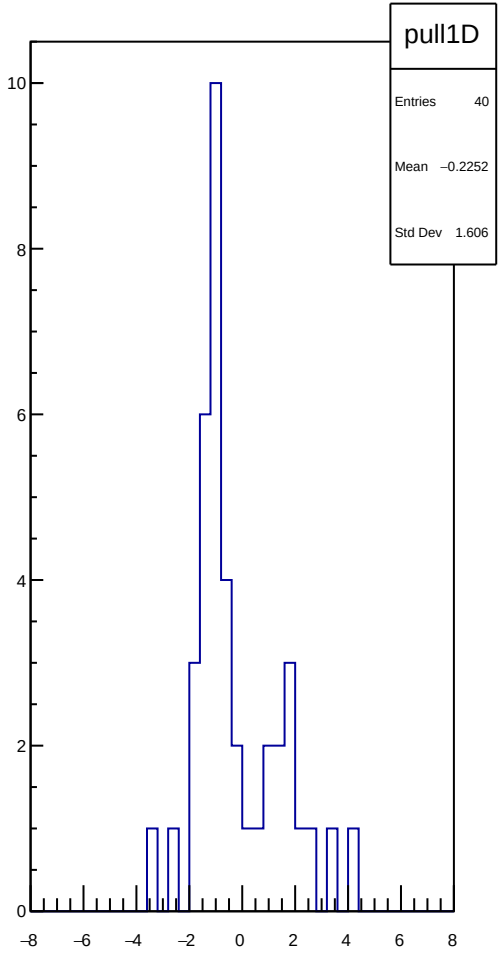

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 52.49 / 39
p0 −49.17 ± 3.608
pull
Entries 40
Mean 167.9
Std Dev 150.3

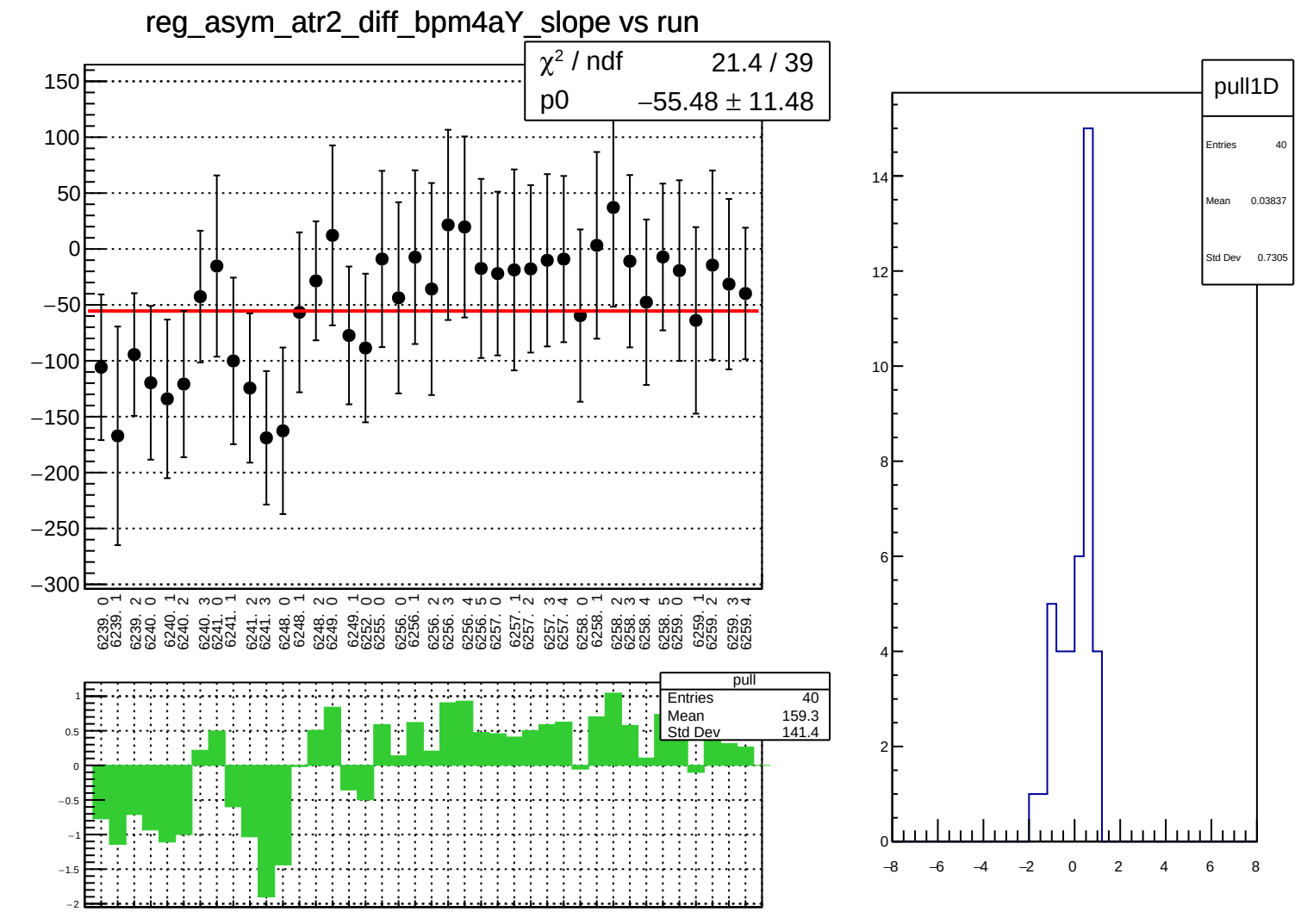

pull1D
Entries 40
Mean −0.03222
Std Dev 1.145

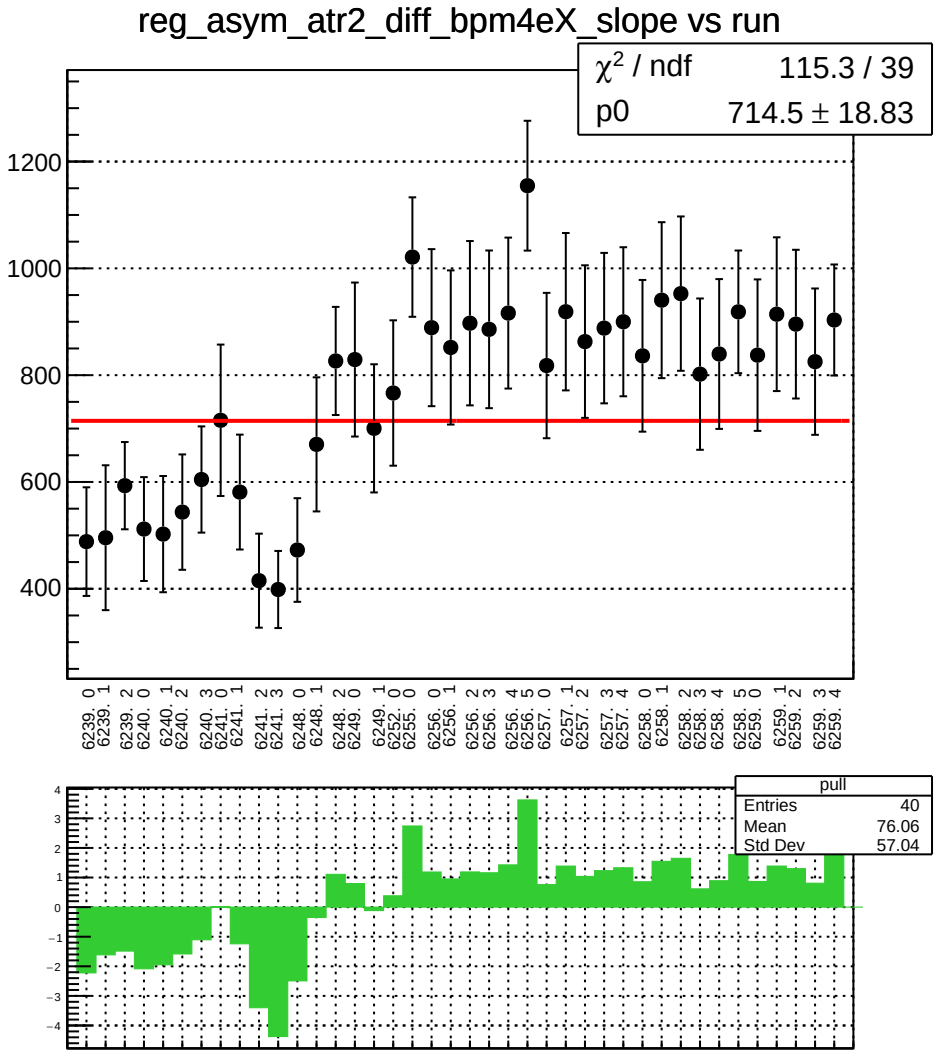

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 42.2 / 39
p0 −27.2 ± 0.2551
−22
−24
−26
−28
−30
−32
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 214.4
Std Dev 195
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

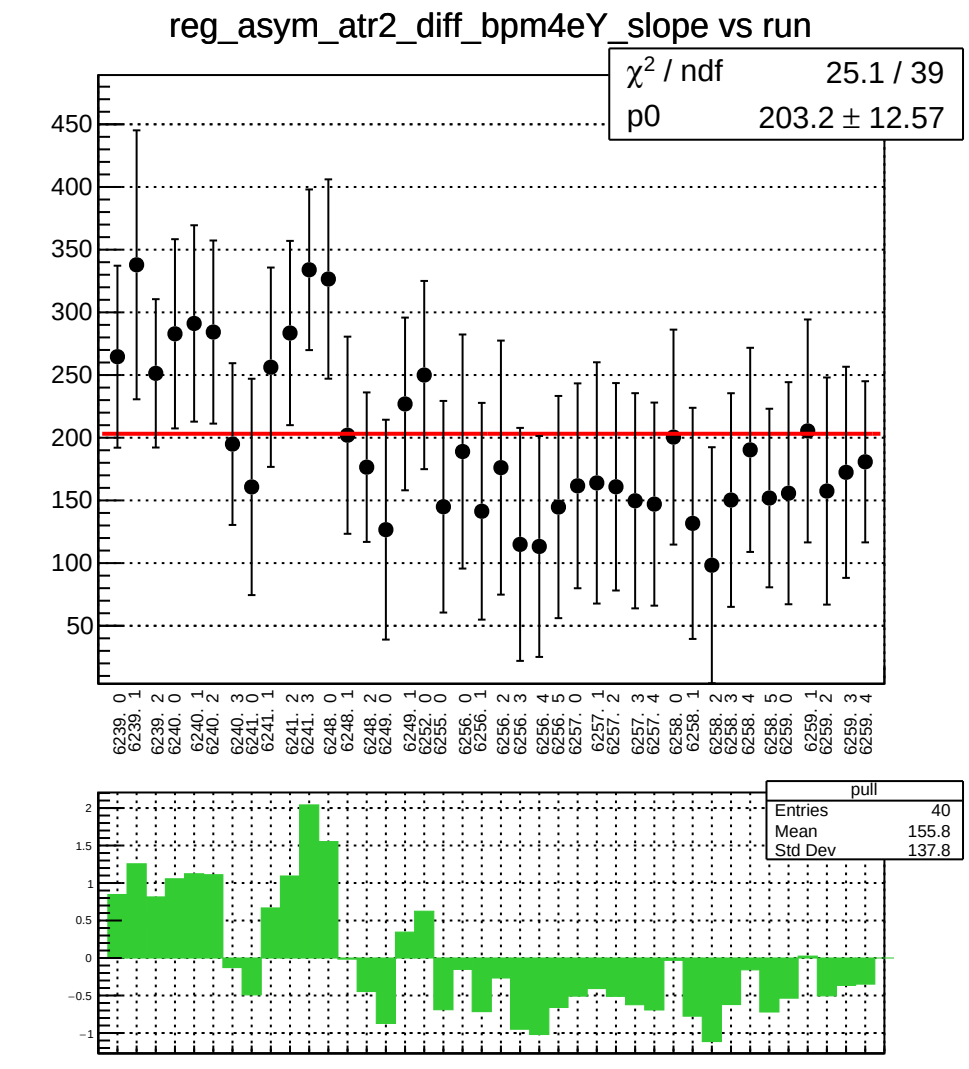

pull1D
Entries 40
Mean −0.02633
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

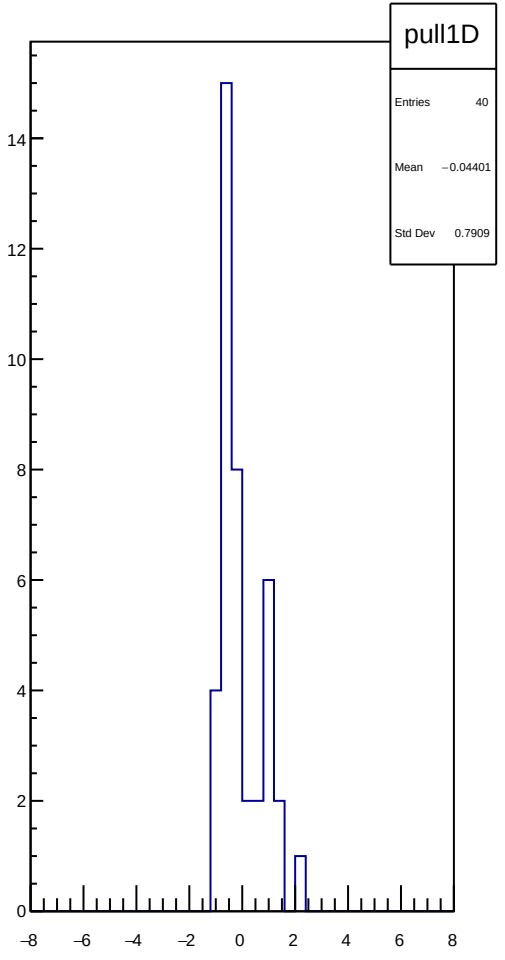

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 105.2 / 39
p0 −472.4 ± 16.27
pull
Entries 40
Mean 78.76
Std Dev 59.69

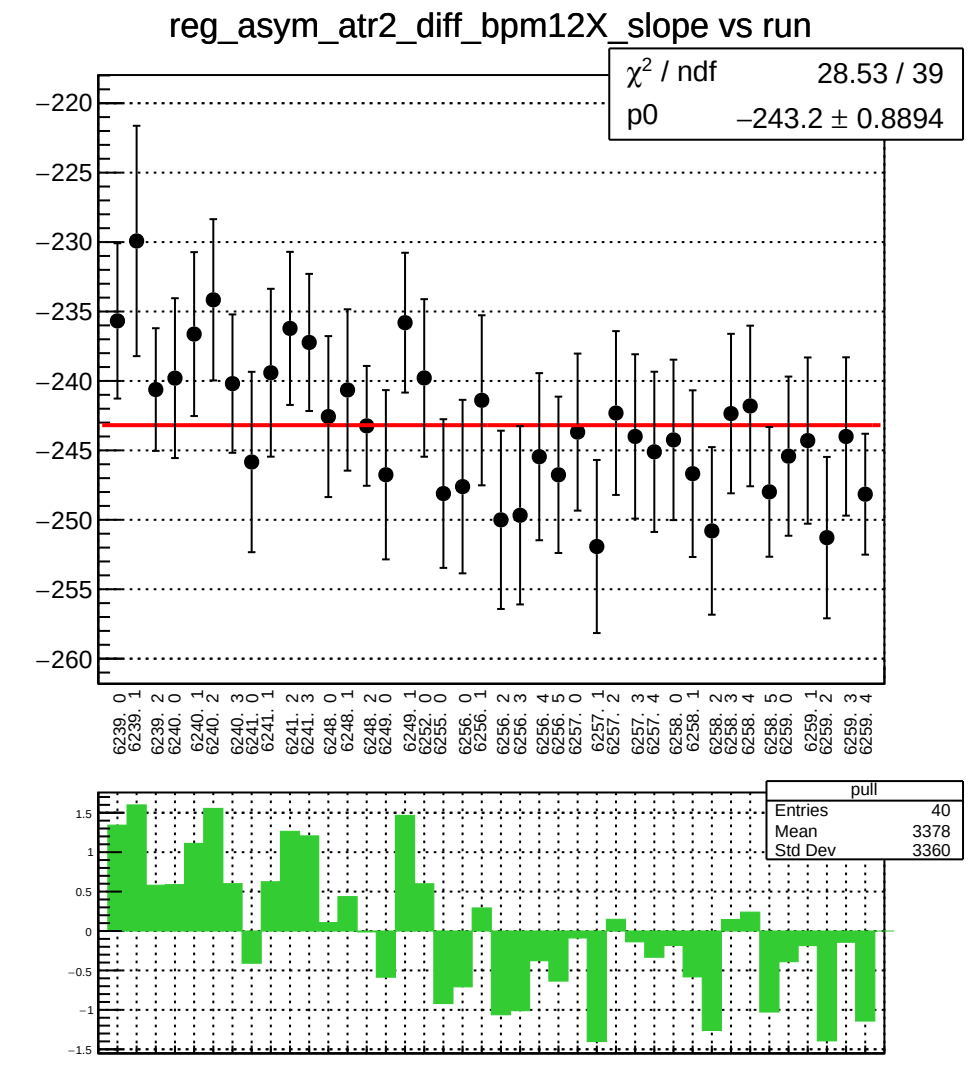

pull1D
Entries 40
Mean −0.2252
Std Dev 1.606

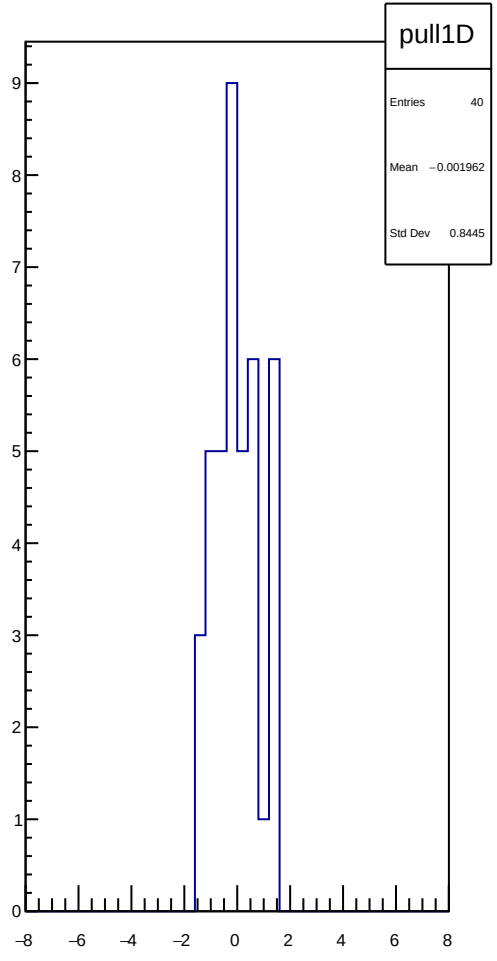

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 21.4 / 39
p0 −55.48 ± 11.48
150
100
50
0
−50
−100
−150
−200
−250
−300
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 159.3
Std Dev 141.4
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.03837
Std Dev 0.7305
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

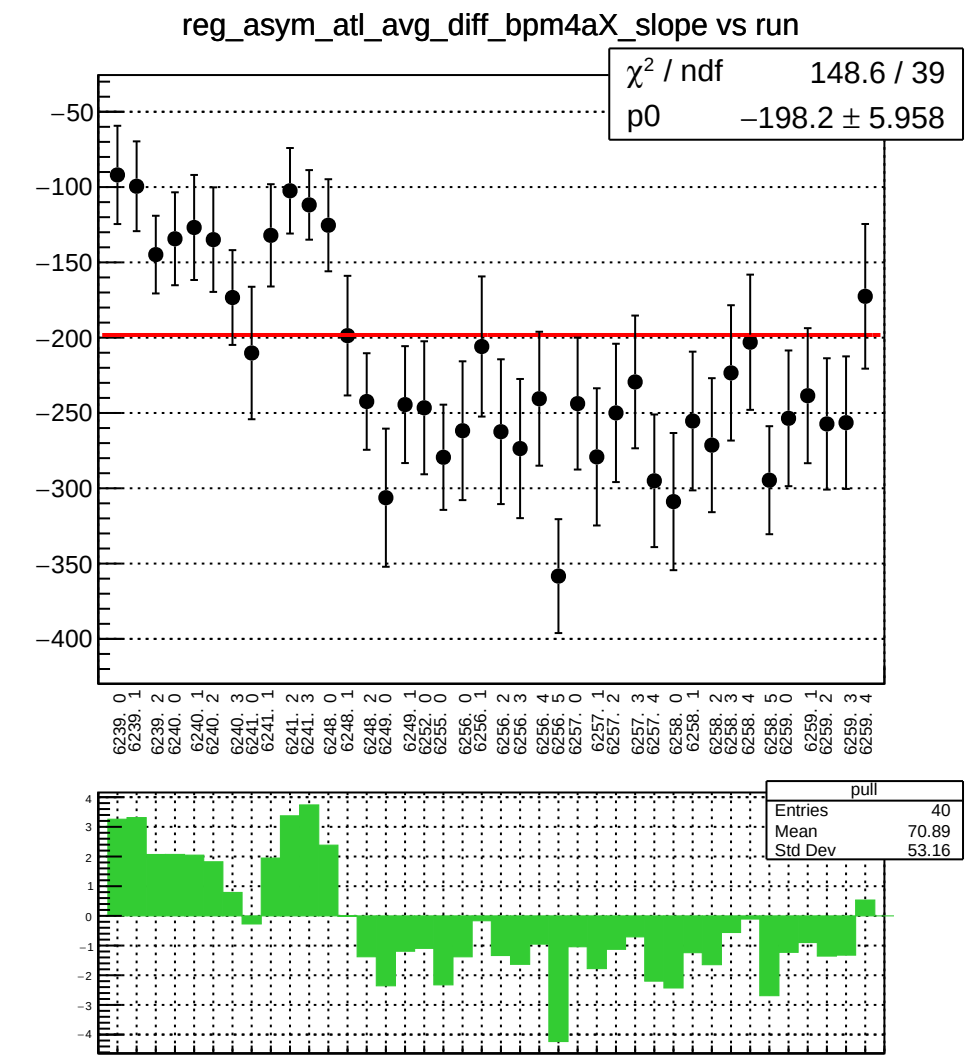

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 115.3 / 39
p0 714.5 ± 18.83
1200
1000
800
600
400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 76.06
Std Dev 57.04
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 40
Mean 0.2456
Std Dev 1.68
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

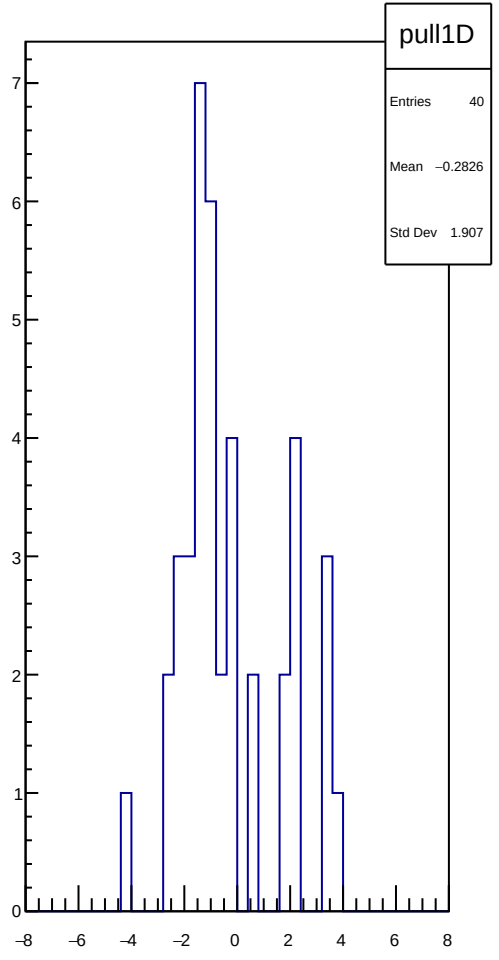

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 25.1 / 39
p0 203.2 ± 12.57
pull
Entries 40
Mean 155.8
Std Dev 137.8

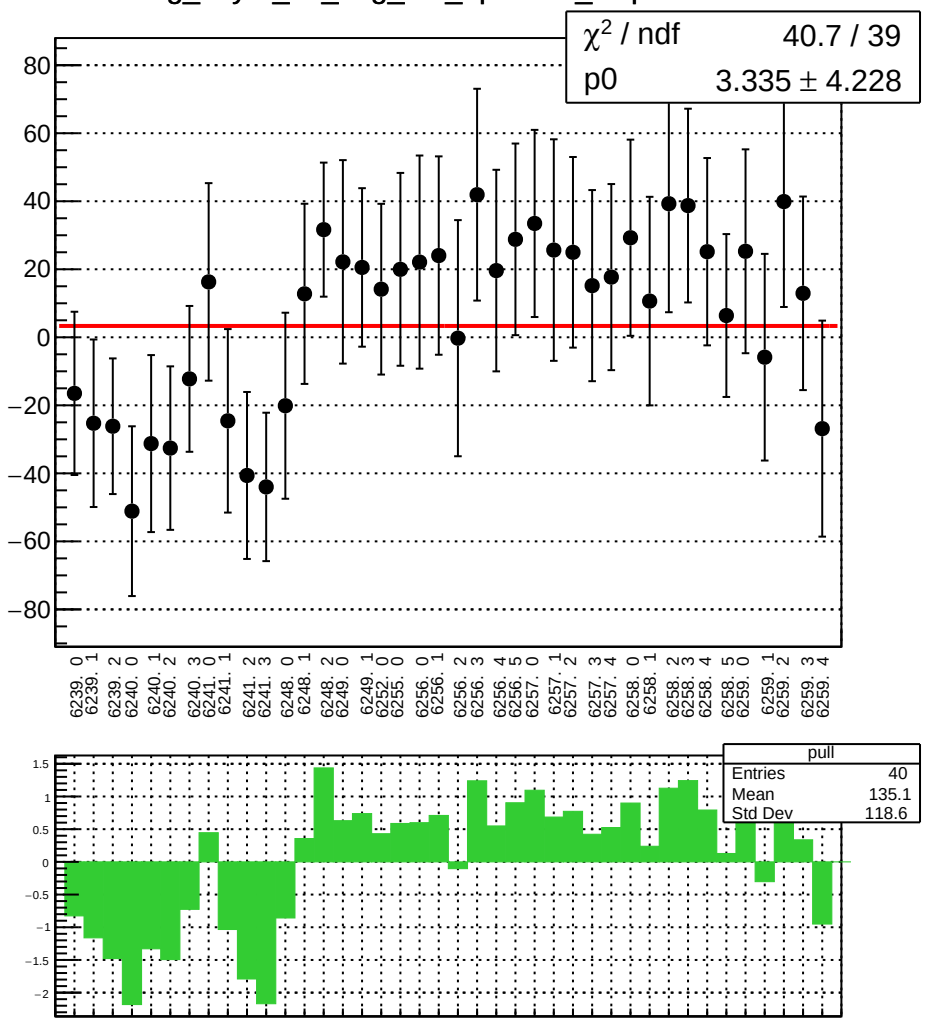

pull1D
Entries 40
Mean −0.04401
Std Dev 0.7909

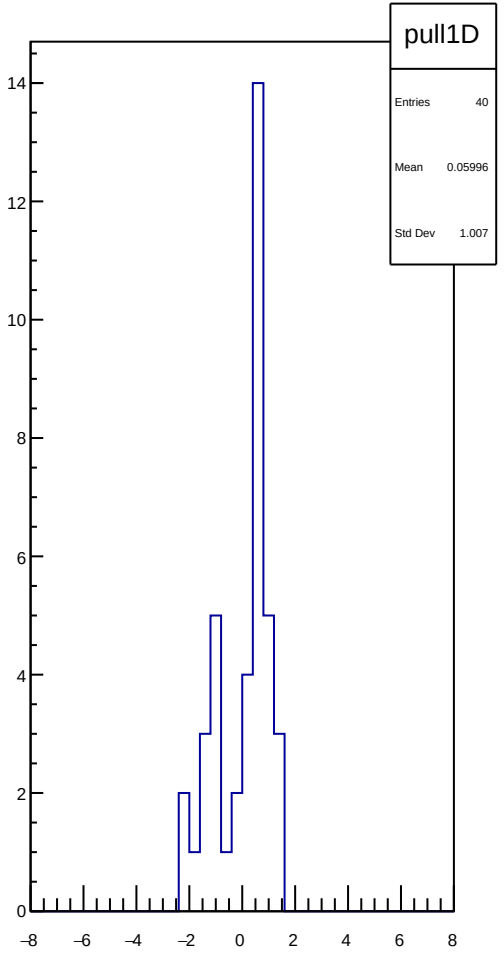

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 28.53 / 39
p0 −243.2 ± 0.8894
pull
Entries 40
Mean 3378
Std Dev 3360

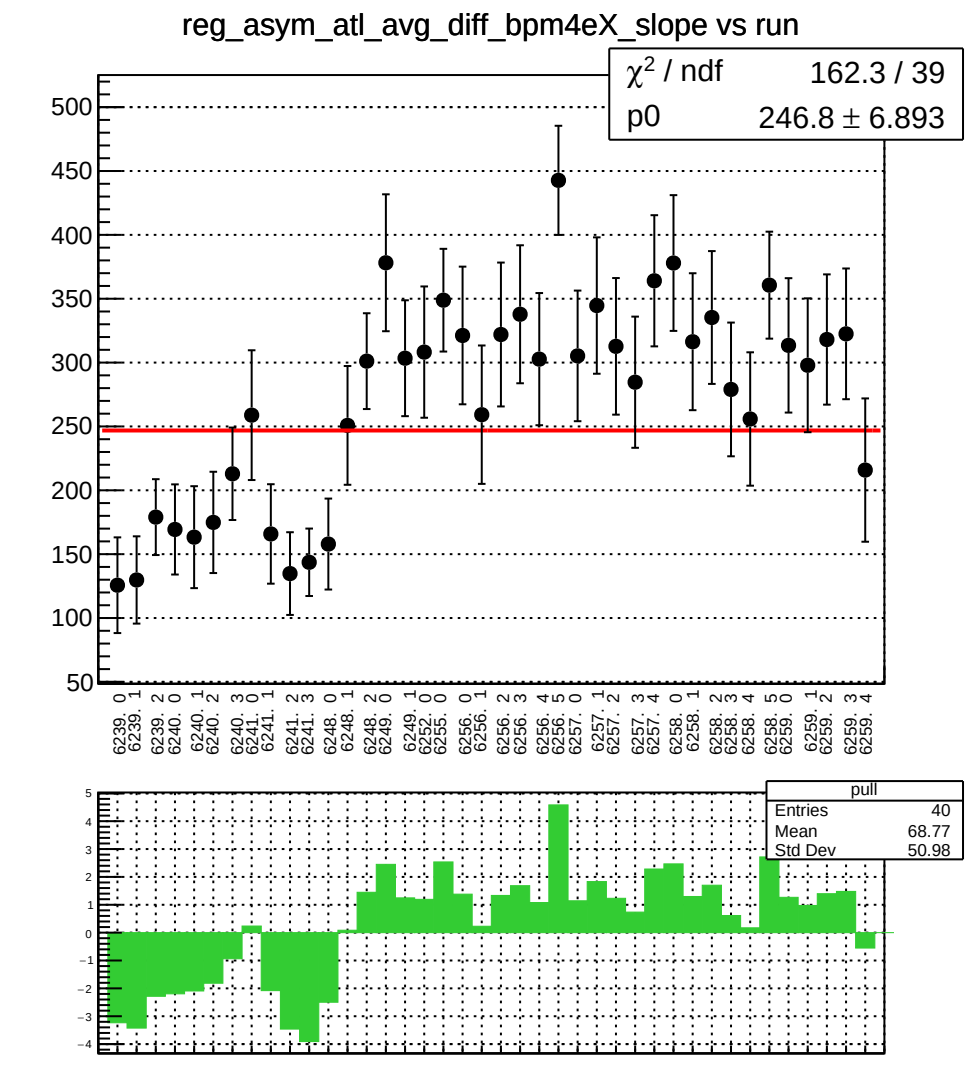

pull1D
Entries 40
Mean −0.001962
Std Dev 0.8445

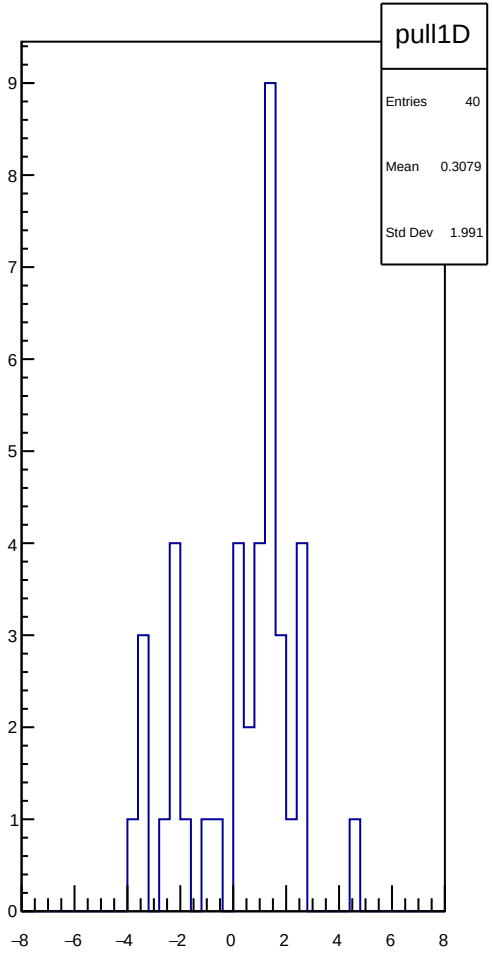

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 148.6 / 39
p0 −198.2 ± 5.958
pull
Entries 40
Mean 70.89
Std Dev 53.16

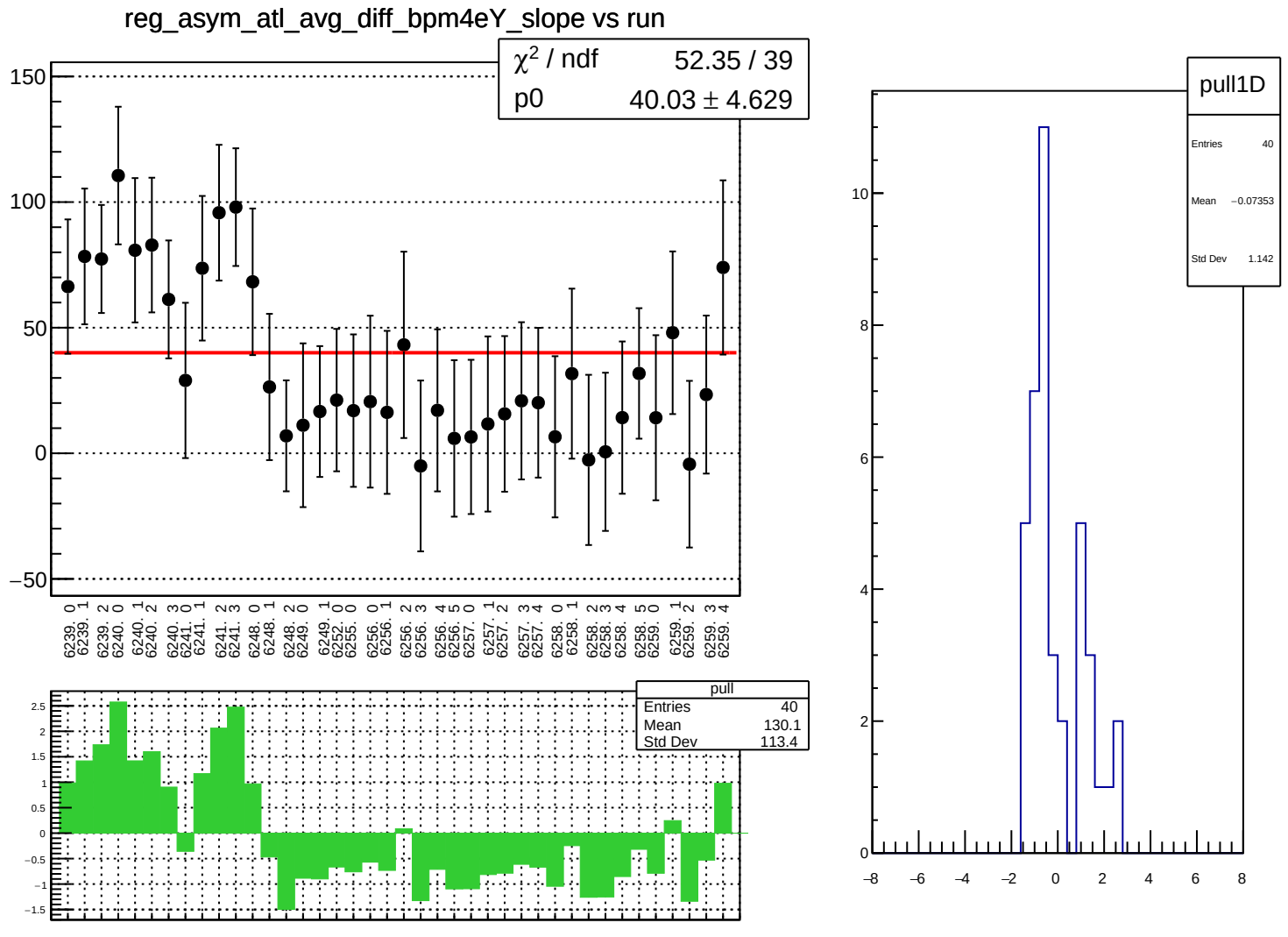

pull1D
Entries 40
Mean −0.2826
Std Dev 1.907

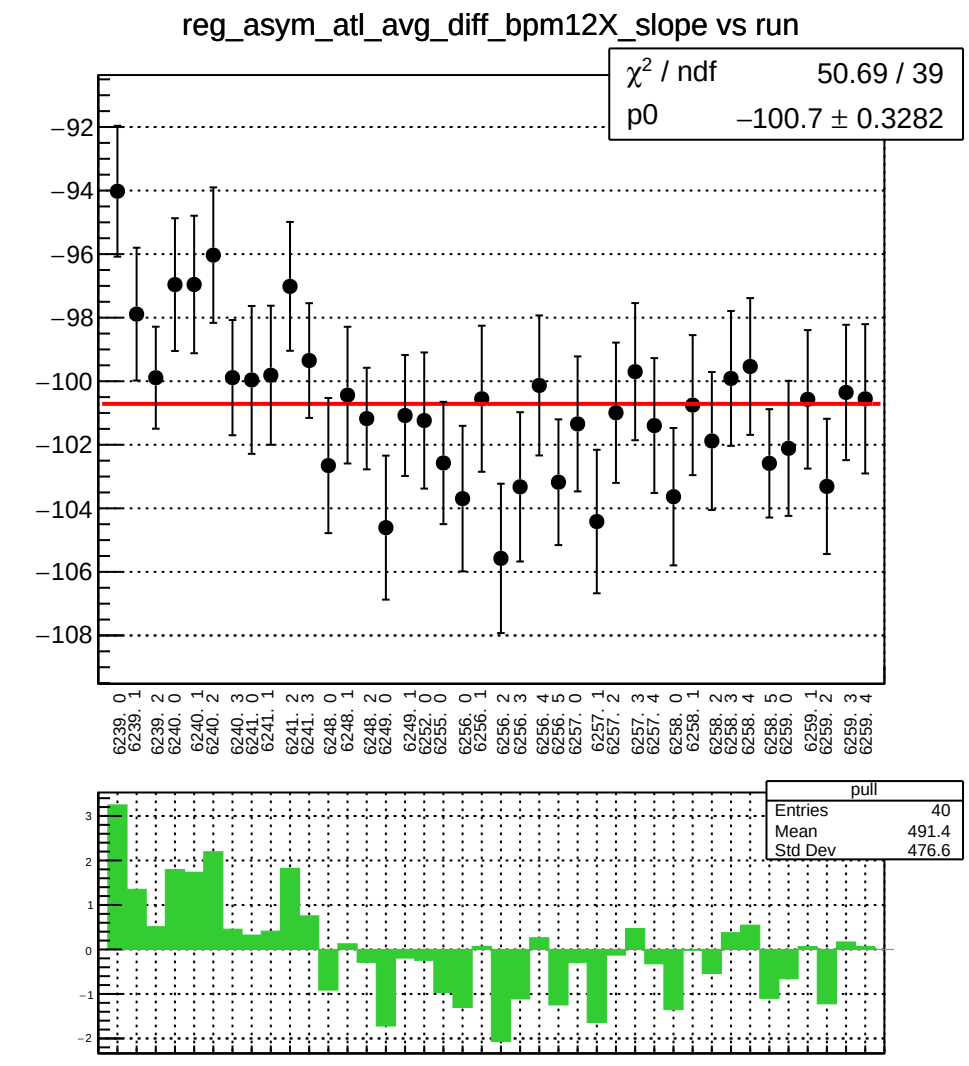

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.7 / 39
p0 3.335 ± 4.228
pull
Entries 40
Mean 135.1
Std Dev 118.6

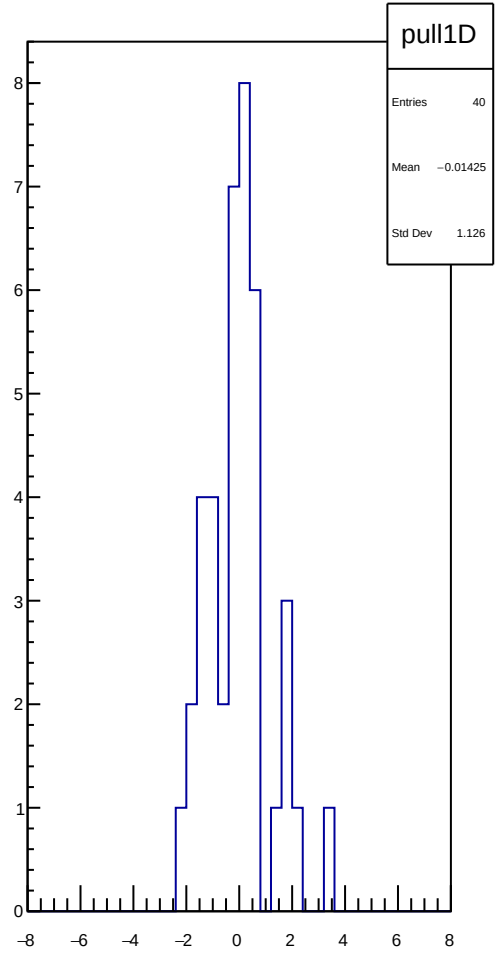

pull1D
Entries 40
Mean 0.05996
Std Dev 1.007

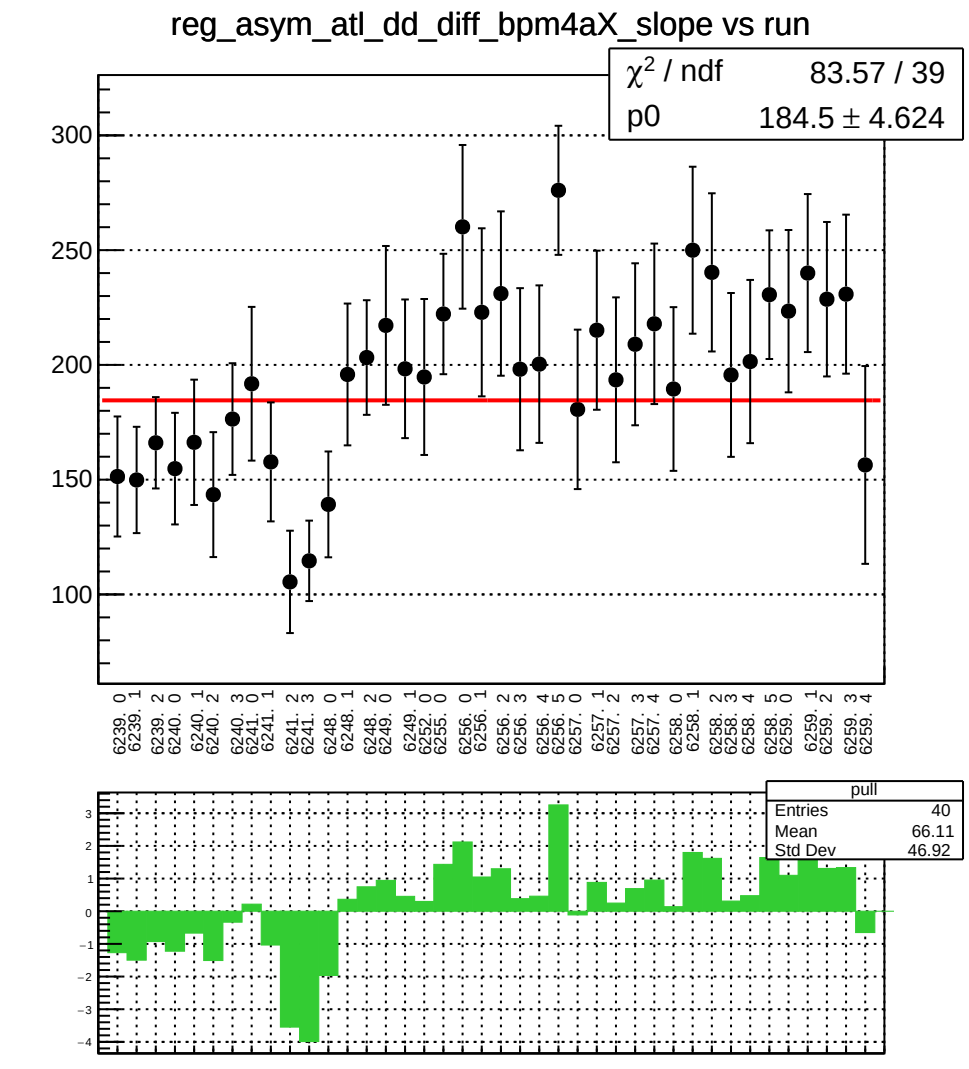

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.3 / 39
p0 246.8 ± 6.893
pull
Entries 40
Mean 68.77
Std Dev 50.98

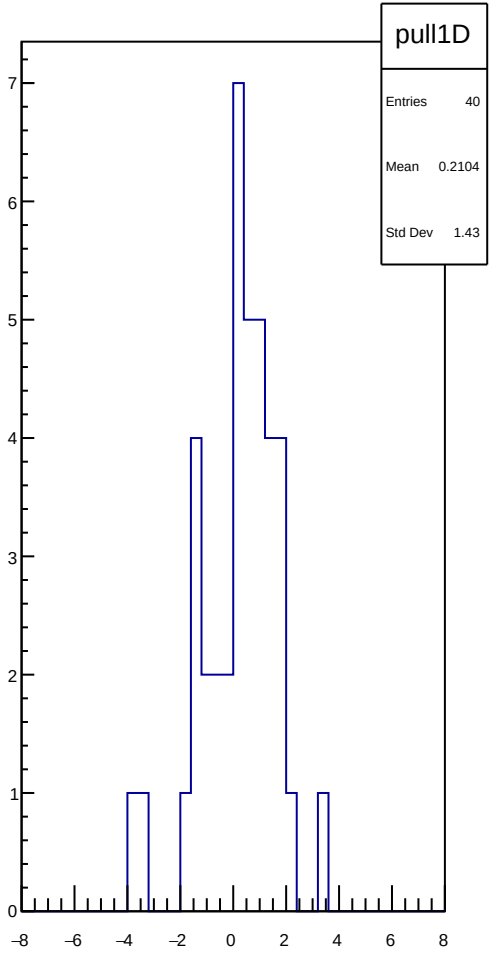

pull1D
Entries 40
Mean 0.3079
Std Dev 1.991

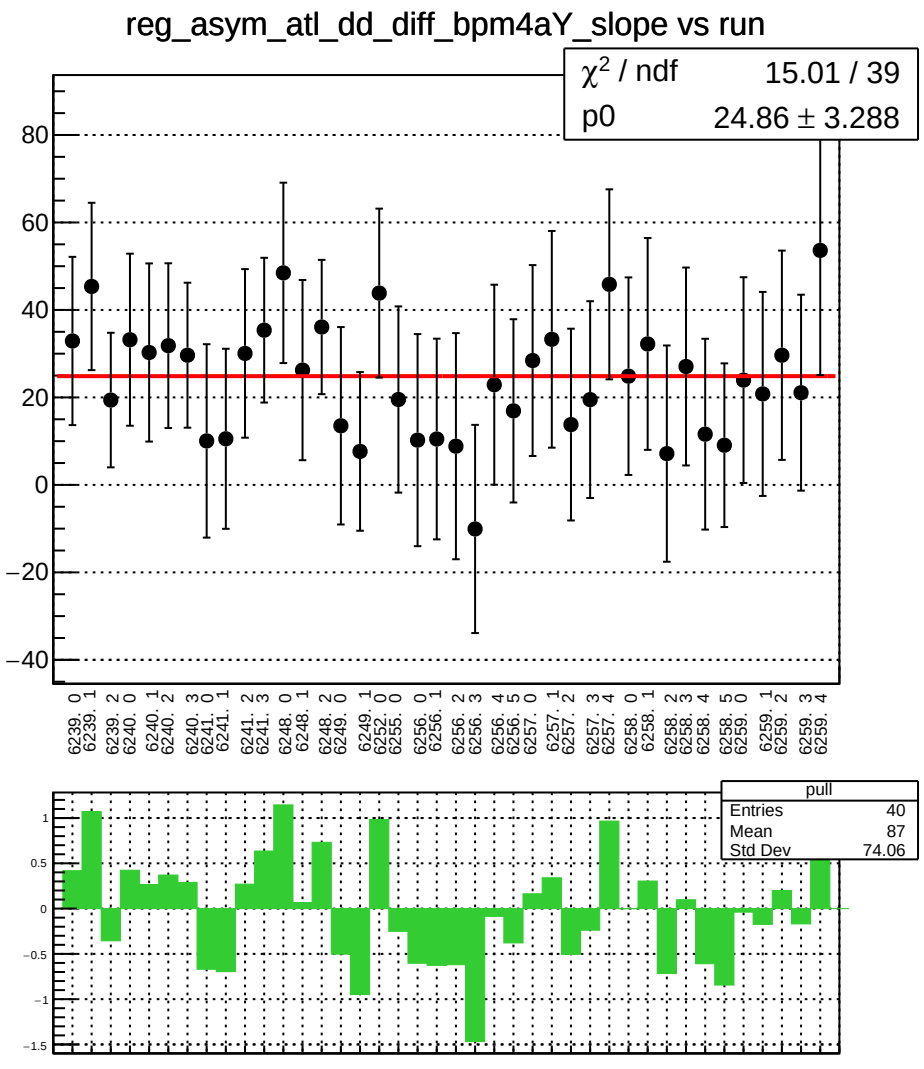

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.35 / 39
p0 40.03 ± 4.629
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 130.1
Std Dev 113.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.07353
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

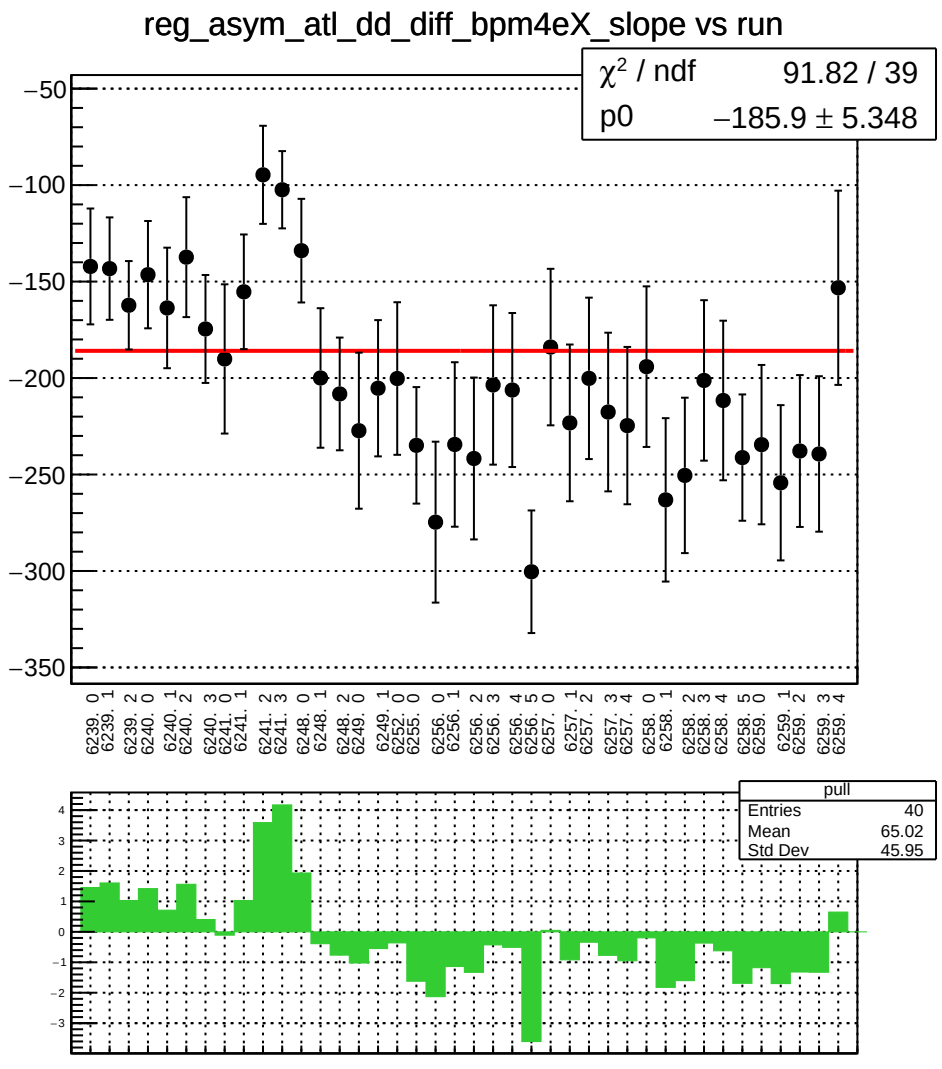

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 50.69 / 39
p0 −100.7 ± 0.3282
pull
Entries 40
Mean 491.4
Std Dev 476.6

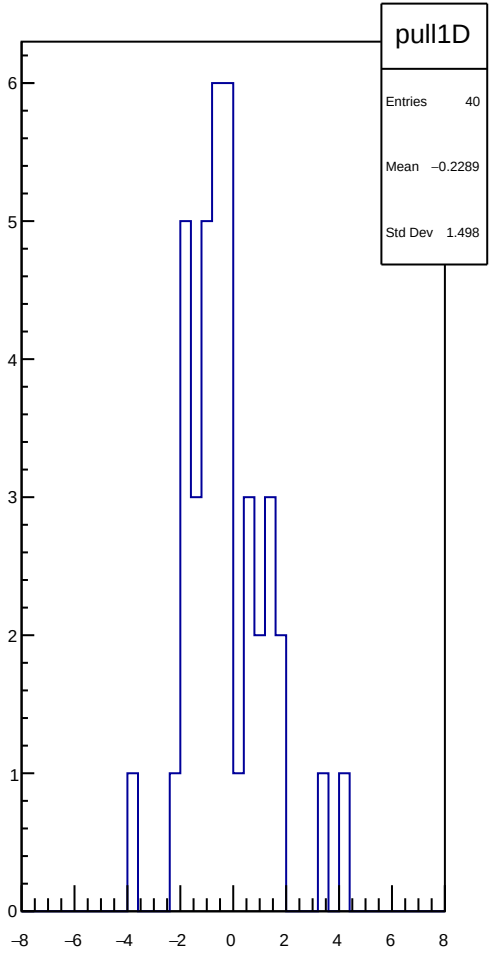

pull1D
Entries 40
Mean −0.01425
Std Dev 1.126

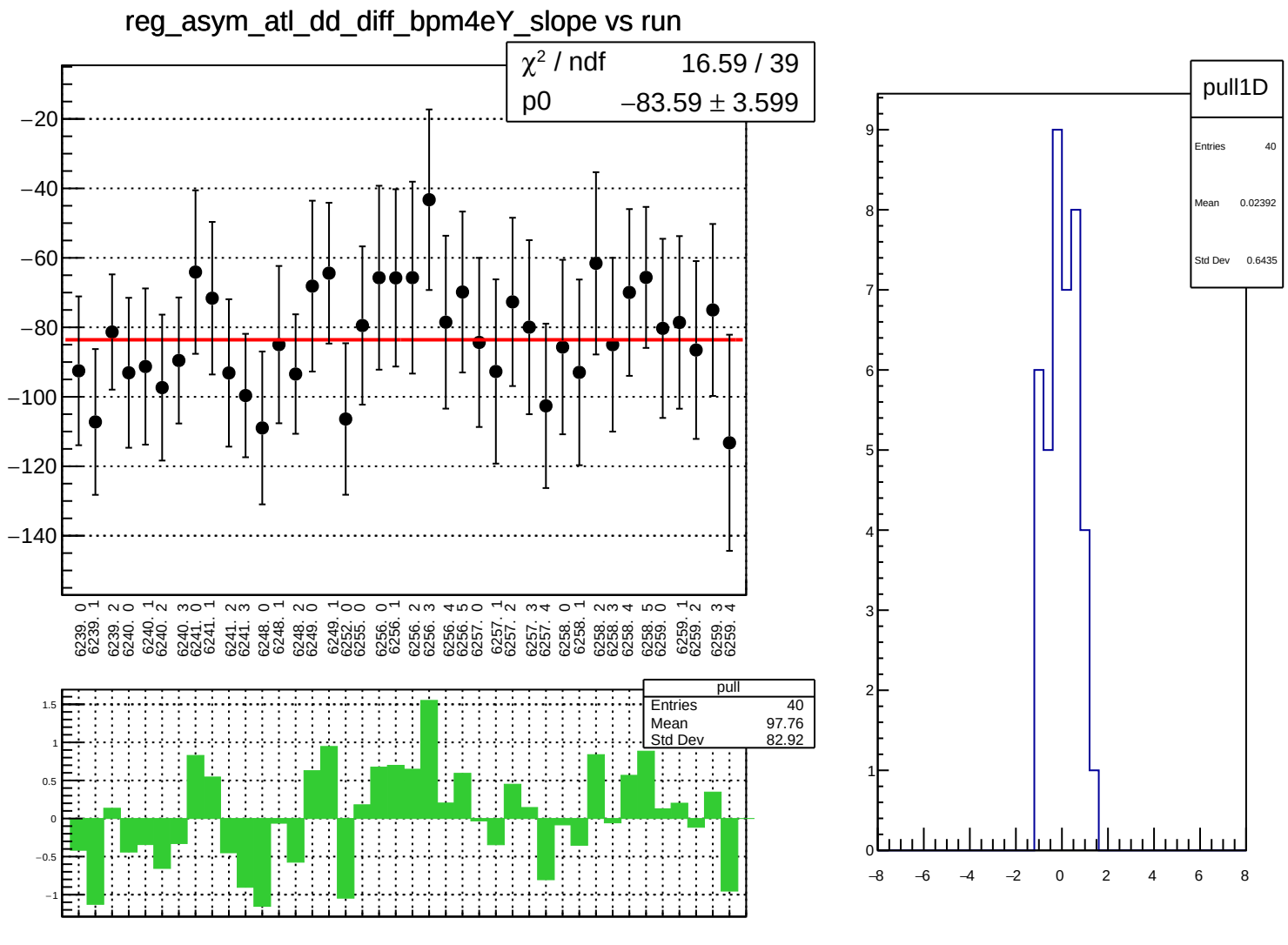

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 83.57 / 39
p0 184.5 ± 4.624
300
250
200
150
100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 66.11
Std Dev 46.92
3
2
1
0
−1
−2
−3
−4

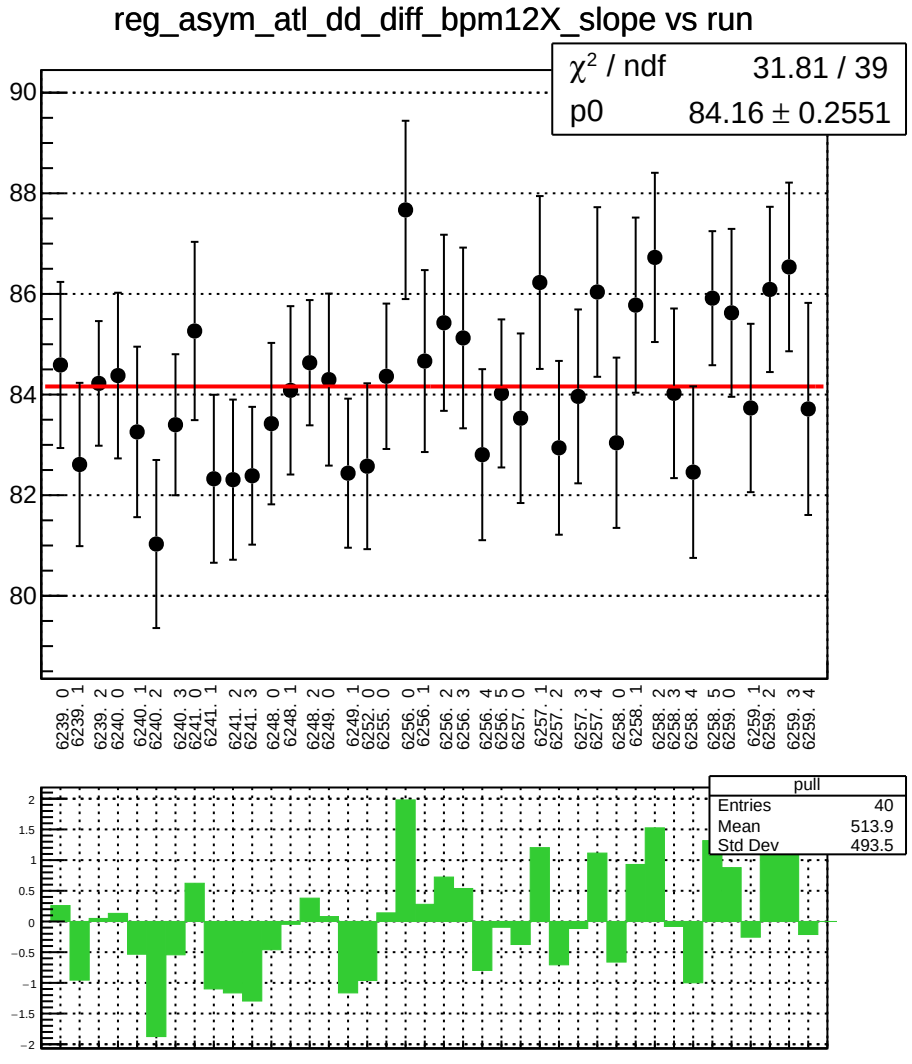

pull1D
Entries 40
Mean 0.2104
Std Dev 1.43
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

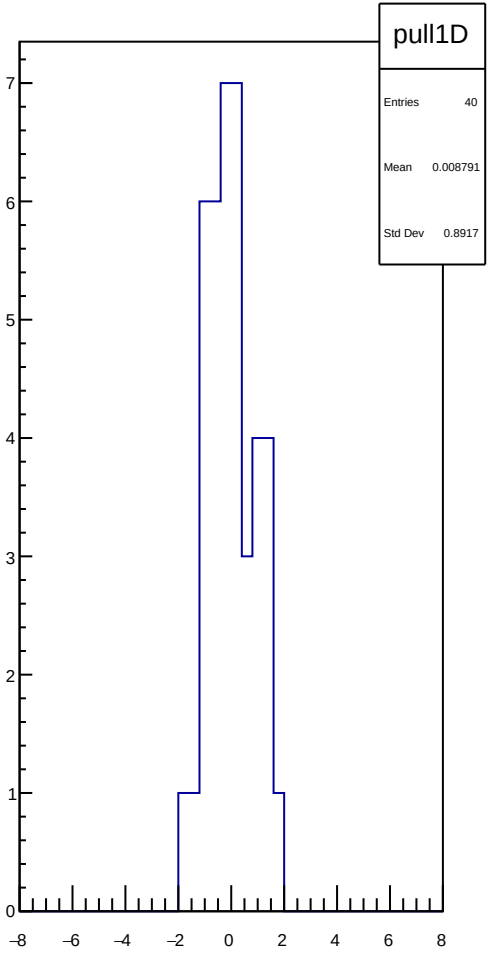

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.01 / 39
p0 24.86 ± 3.288
80
60
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 87
Std Dev 74.06
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.01873
Std Dev 0.6123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

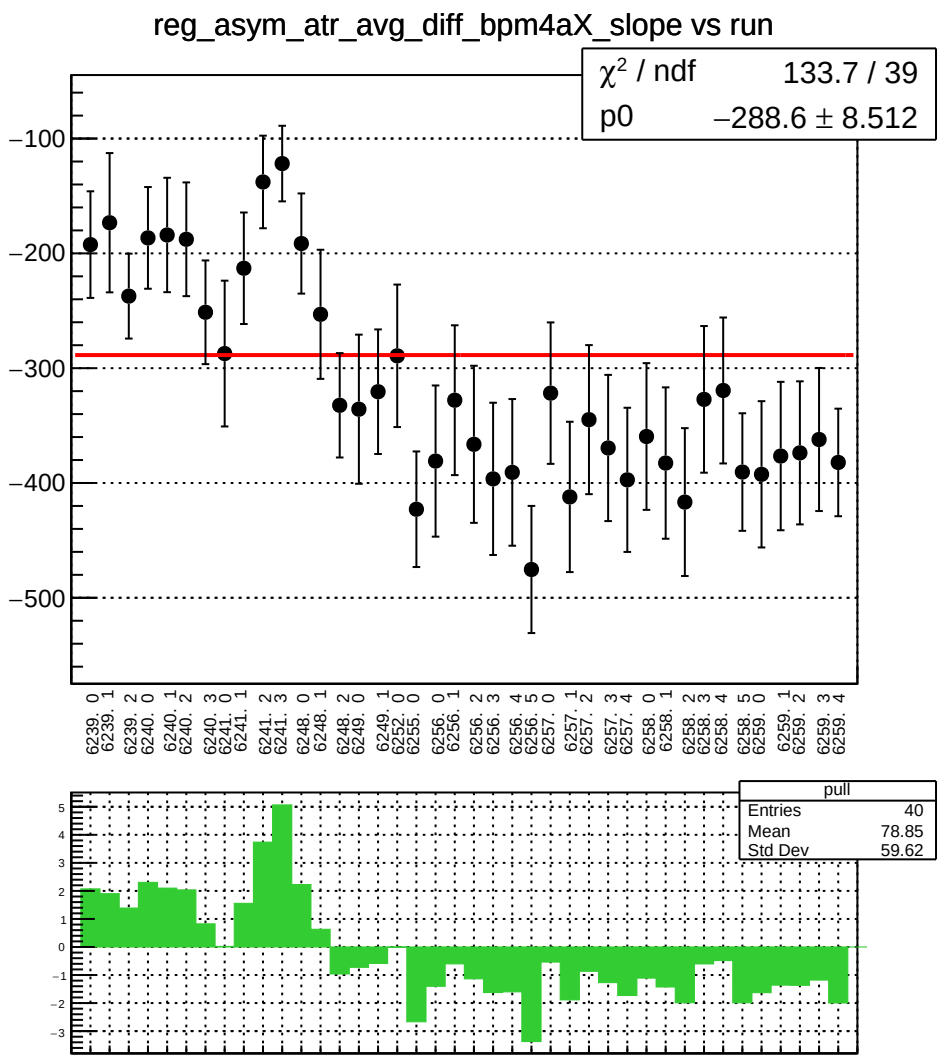

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.82 / 39
p0 −185.9 ± 5.348
−50
−100
−150
−200
−250
−300
−350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 65.02
Std Dev 45.95
4
3
2
1
0
−1
−2
−3

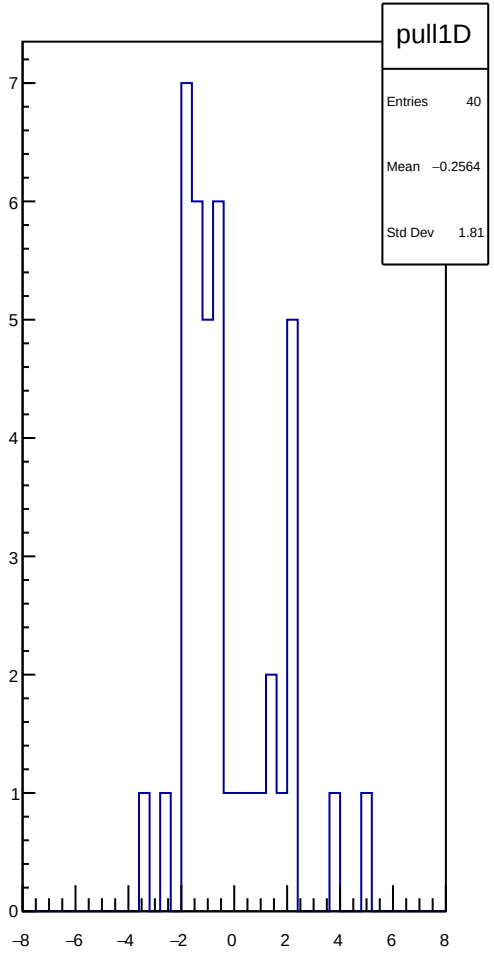

pull1D
Entries 40
Mean −0.2289
Std Dev 1.498
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

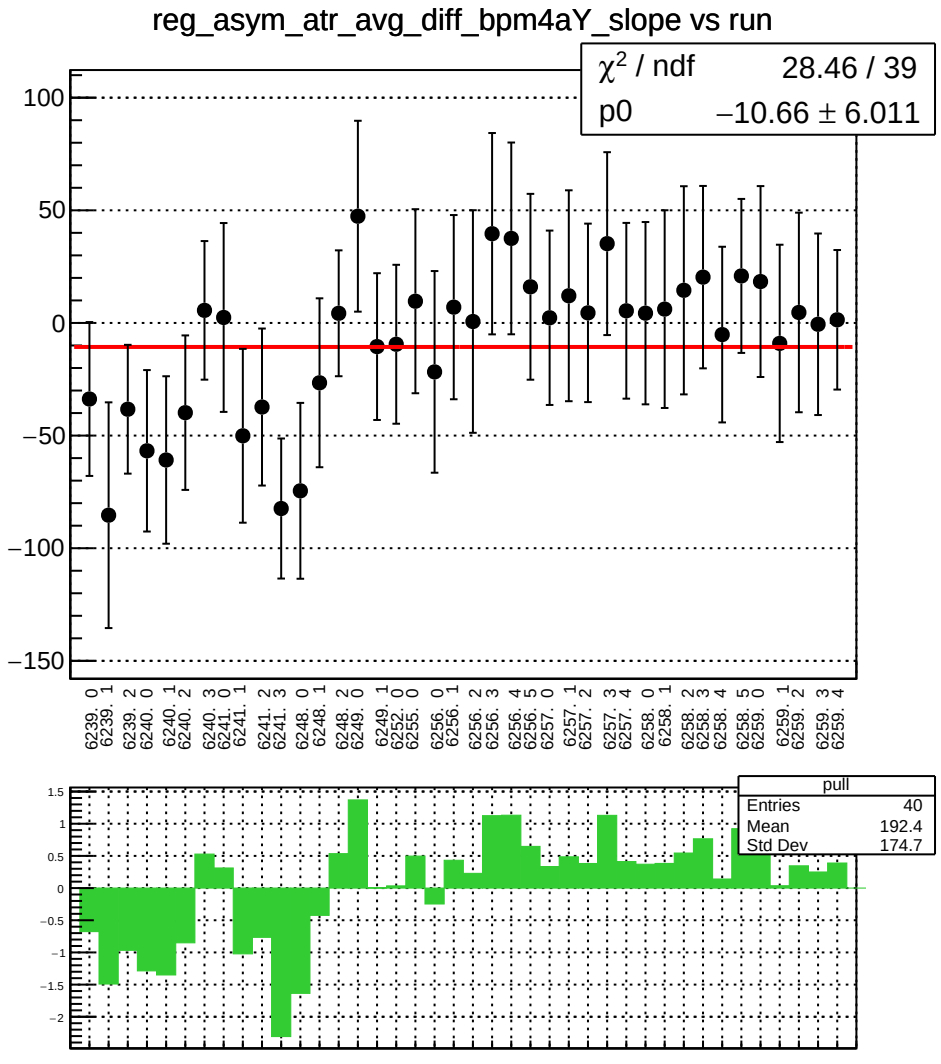

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.59 / 39
p0 −83.59 ± 3.599
−20
−40
−60
−80
−100
−120
−140
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 97.76
Std Dev 82.92
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean 0.02392
Std Dev 0.6435
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

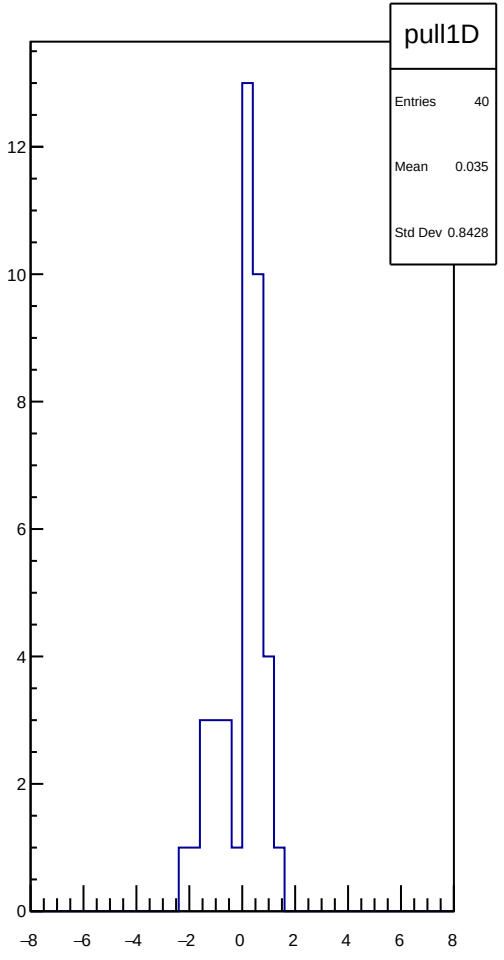

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 31.81 / 39
p0 84.16 ± 0.2551
90
88
86
84
82
80
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 513.9
Std Dev 493.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

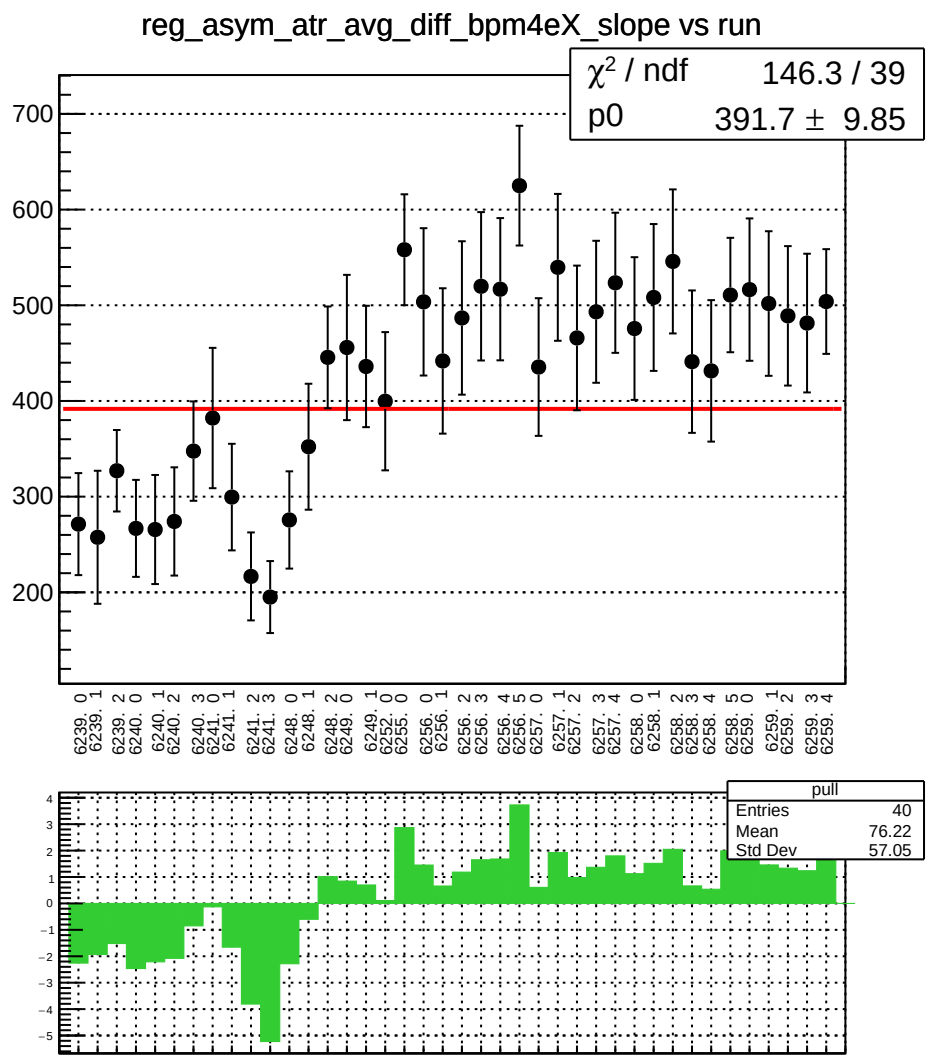

pull1D
Entries 40
Mean 0.008791
Std Dev 0.8917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

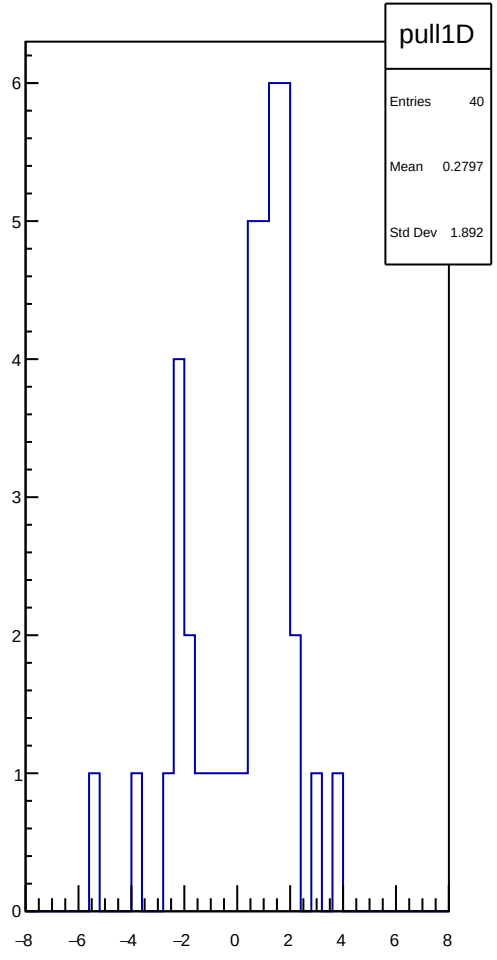

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 133.7 / 39
p0 −288.6 ± 8.512
−100
−200
−300
−400
−500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 78.85
Std Dev 59.62
5
4
3
2
1
0
−1
−2
−3

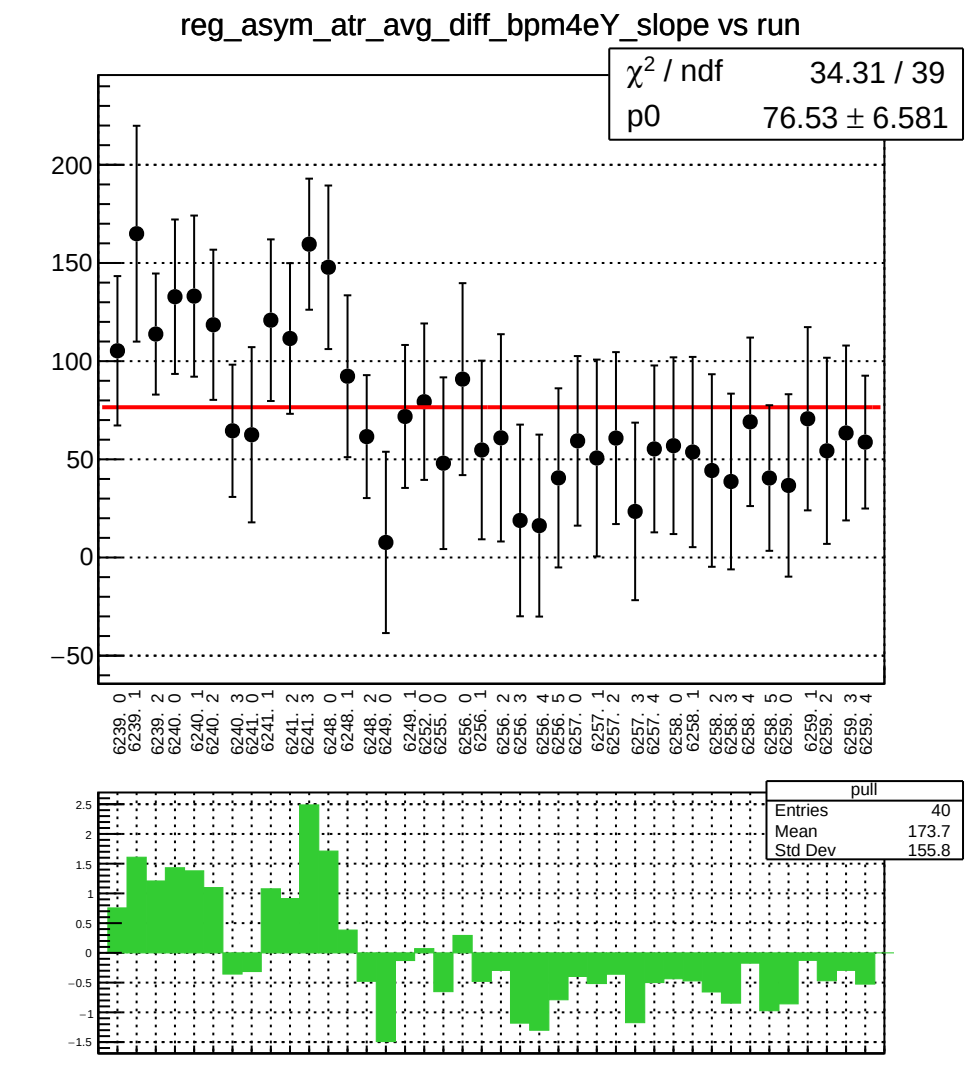

pull1D
Entries 40
Mean −0.2564
Std Dev 1.81
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

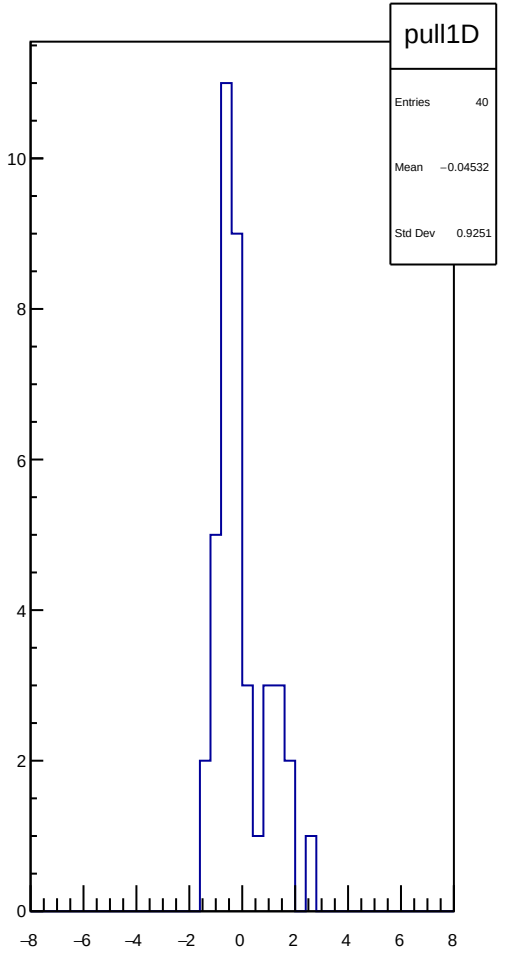

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.46 / 39
p0 −10.66 ± 6.011
pull
Entries 40
Mean 192.4
Std Dev 174.7

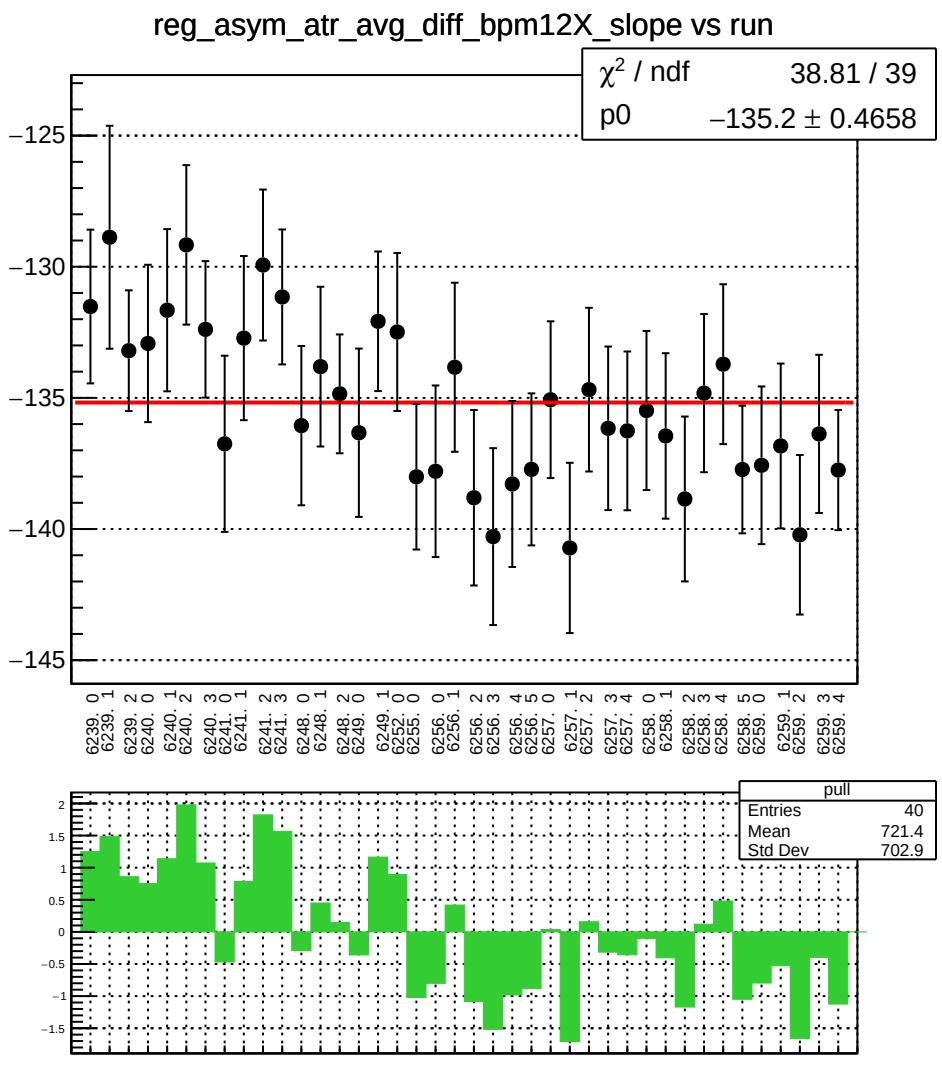

pull1D
Entries 40
Mean 0.035
Std Dev 0.8428

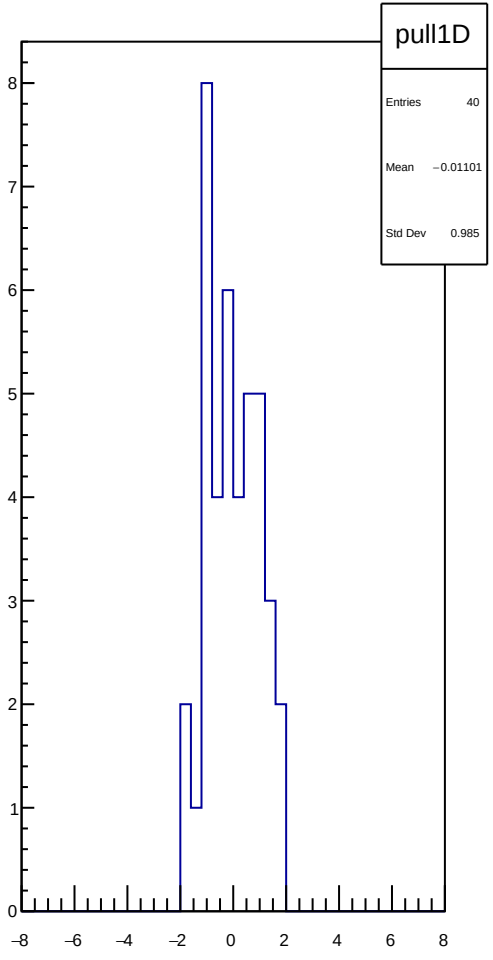

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 146.3 / 39
p0 391.7 ± 9.85
700
600
500
400
300
200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 76.22
Std Dev 57.05
4
3
2
1
0
−1
−2
−3
−4
−5

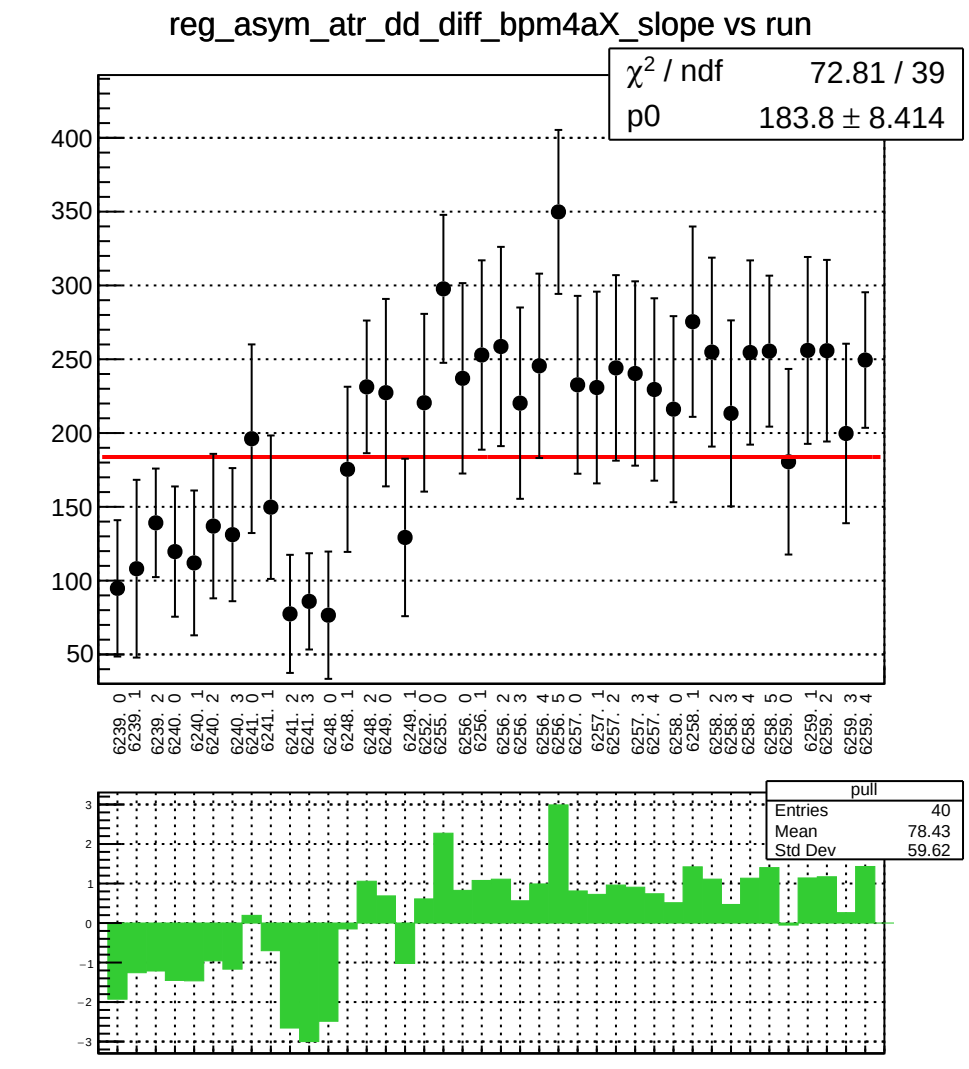

pull1D
Entries 40
Mean 0.2797
Std Dev 1.892
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

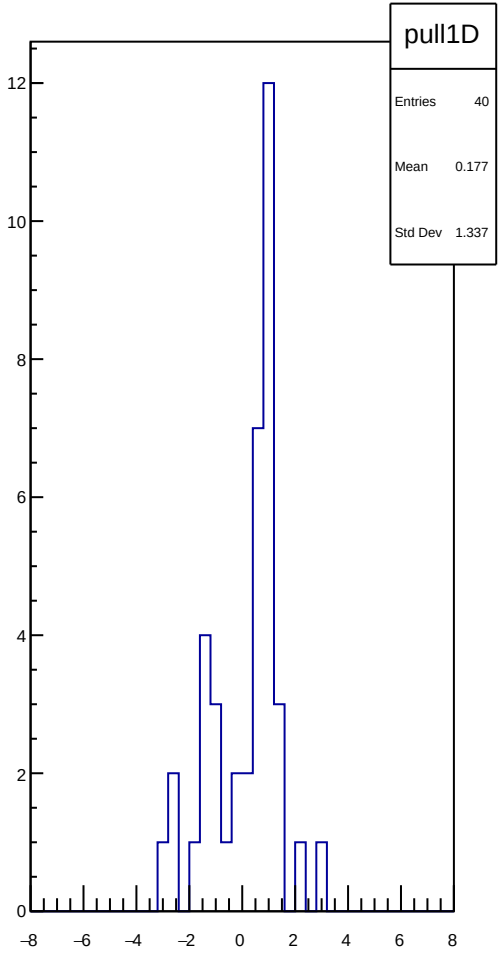

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.31 / 39
p0 76.53 ± 6.581
200
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 173.7
Std Dev 155.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

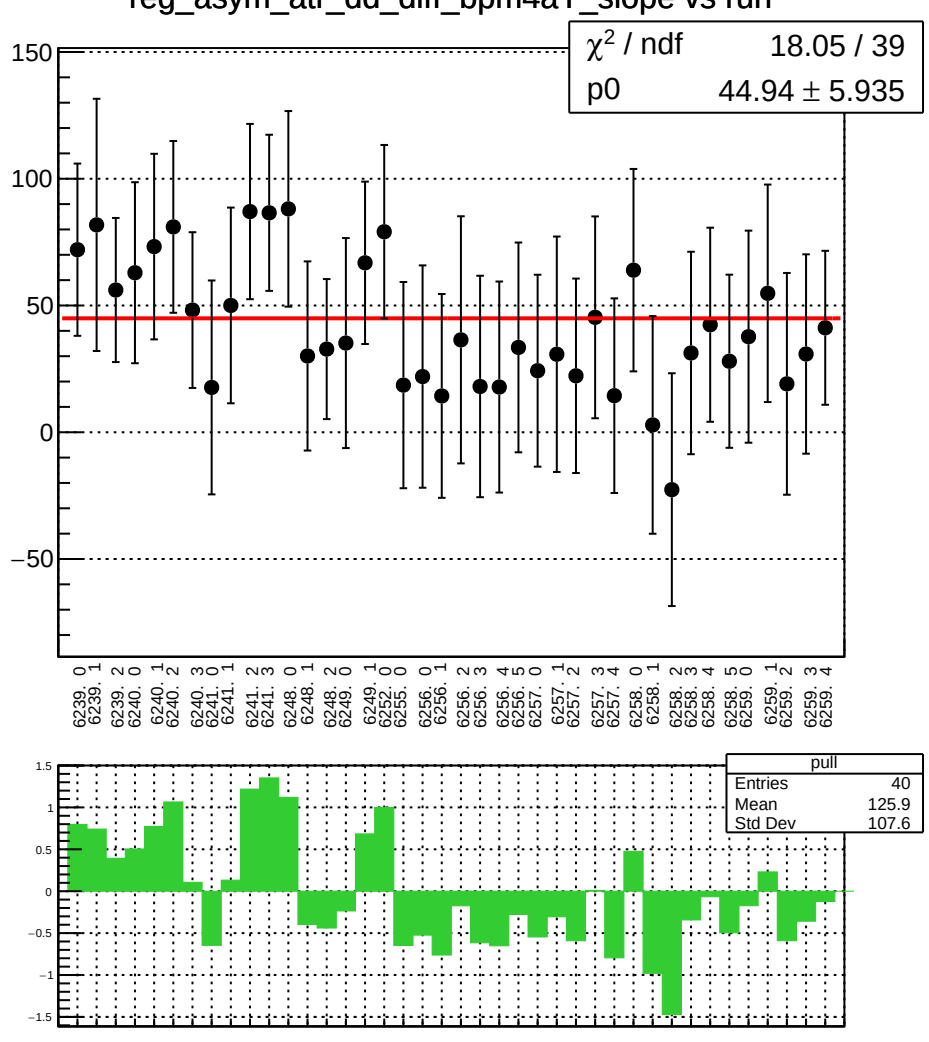

pull1D
Entries 40
Mean −0.04532
Std Dev 0.9251
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

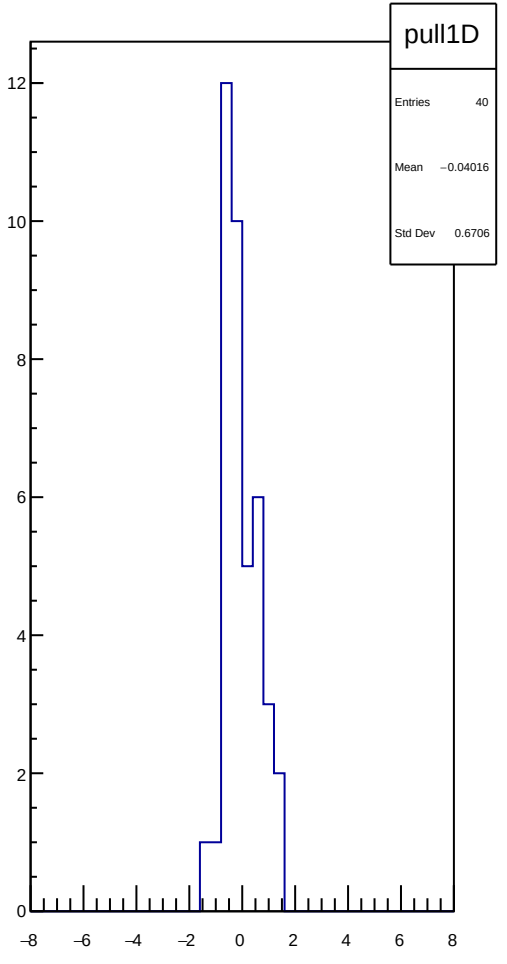

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 38.81 / 39
p0 −135.2 ± 0.4658
−125
−130
−135
−140
−145
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 721.4
Std Dev 702.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

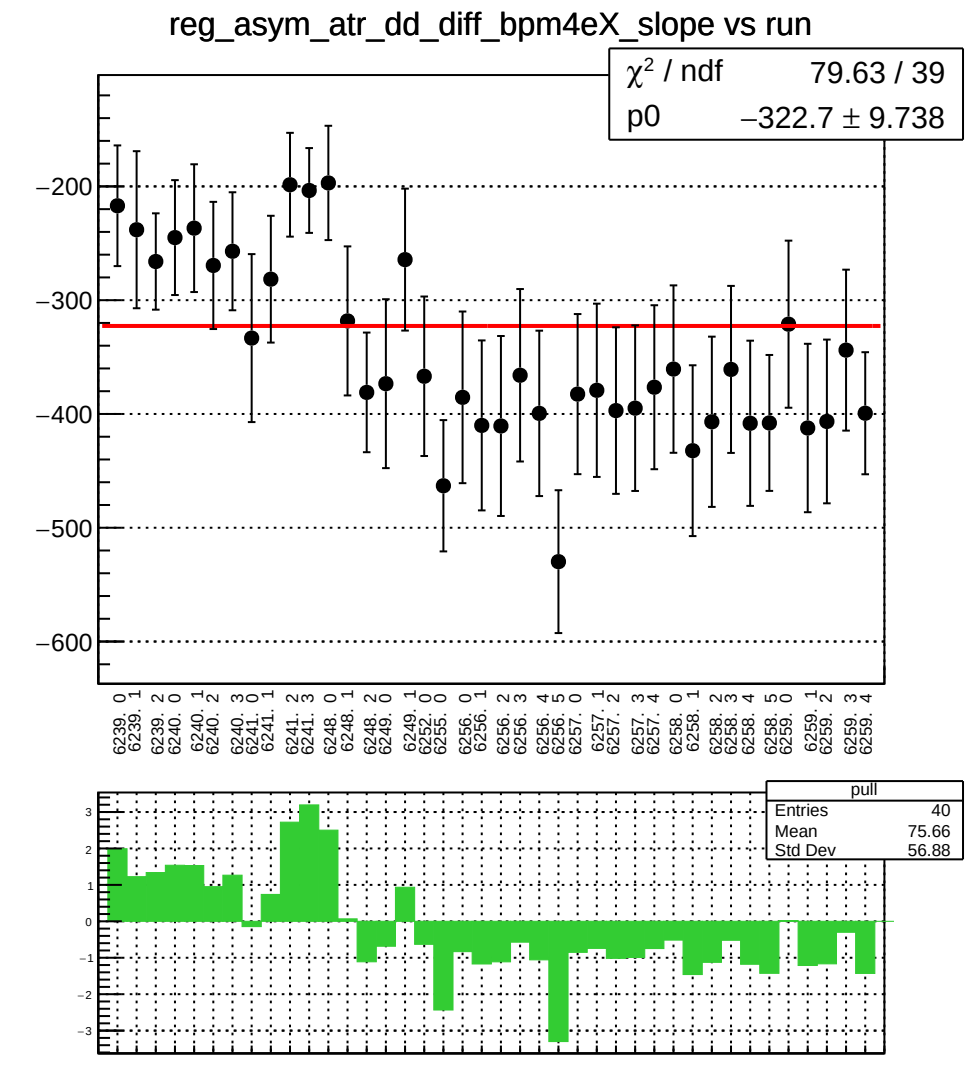

pull1D
Entries 40
Mean −0.01101
Std Dev 0.985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

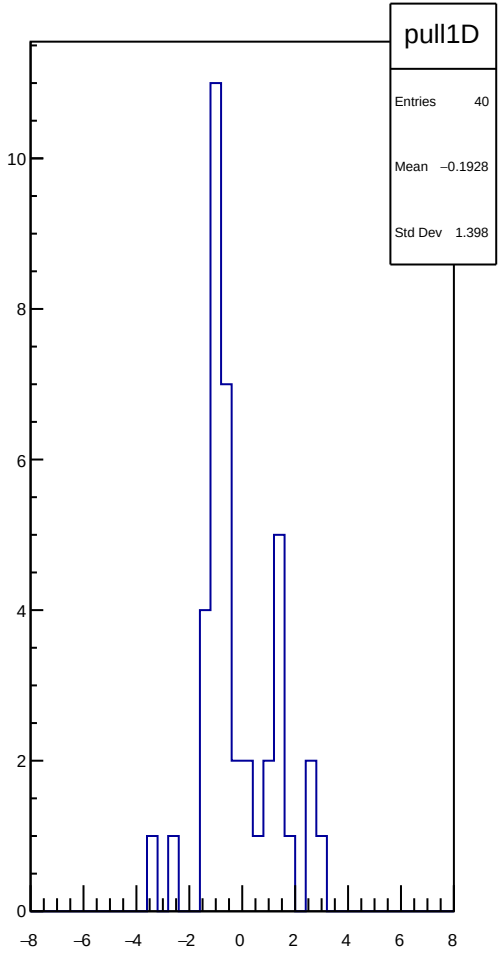

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.81 / 39
p0 183.8 ± 8.414
400
350
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 78.43
Std Dev 59.62
3
2
1
0
−1
−2
−3

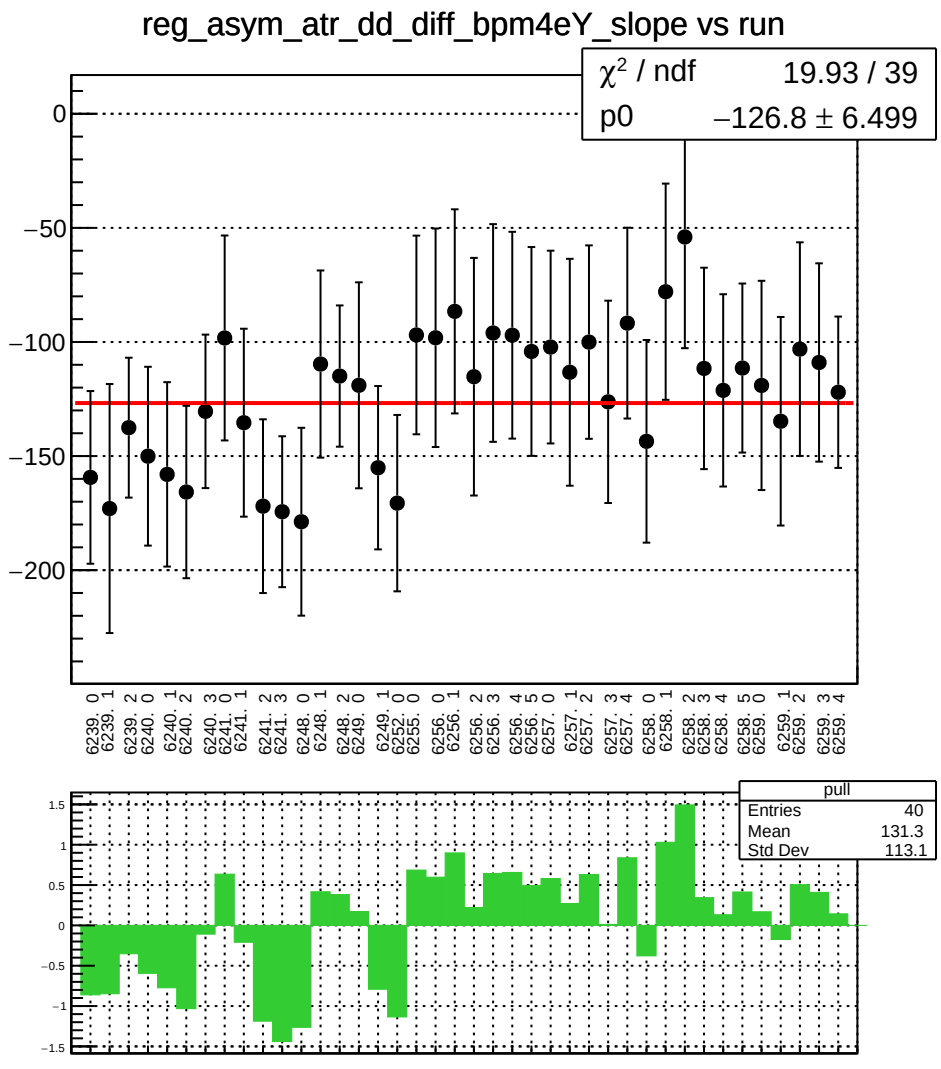

pull1D
Entries 40
Mean 0.177
Std Dev 1.337
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

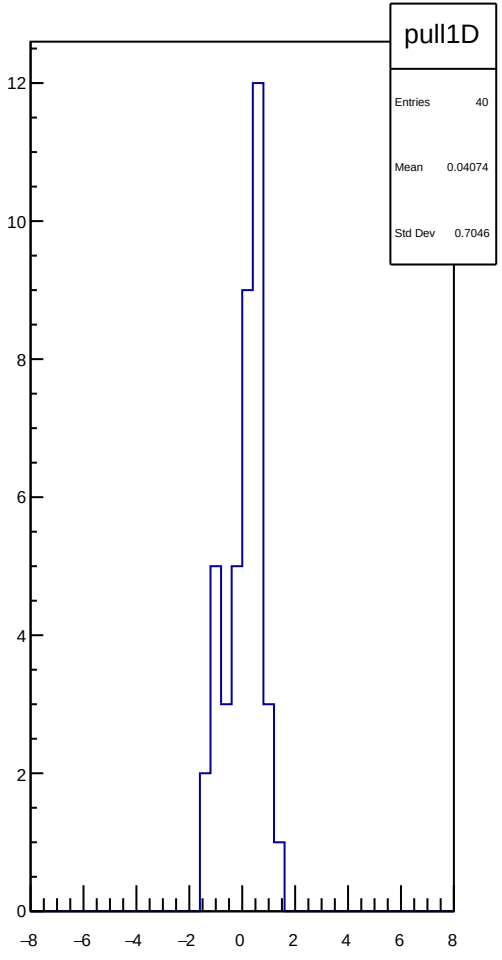

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.05 / 39
p0 44.94 ± 5.935
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 125.9
Std Dev 107.6
1.5
1
0.5
0
−0.5
−1
−1.5

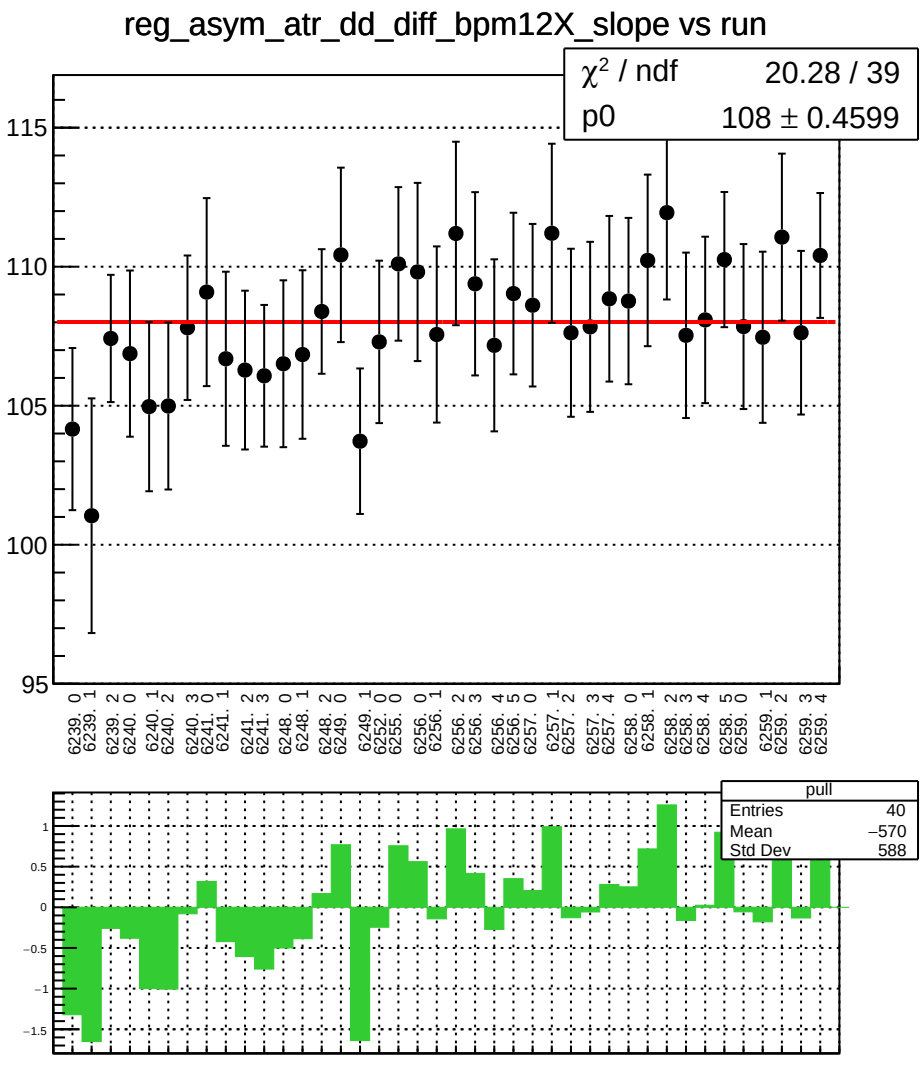

pull1D
Entries 40
Mean −0.04016
Std Dev 0.6706
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

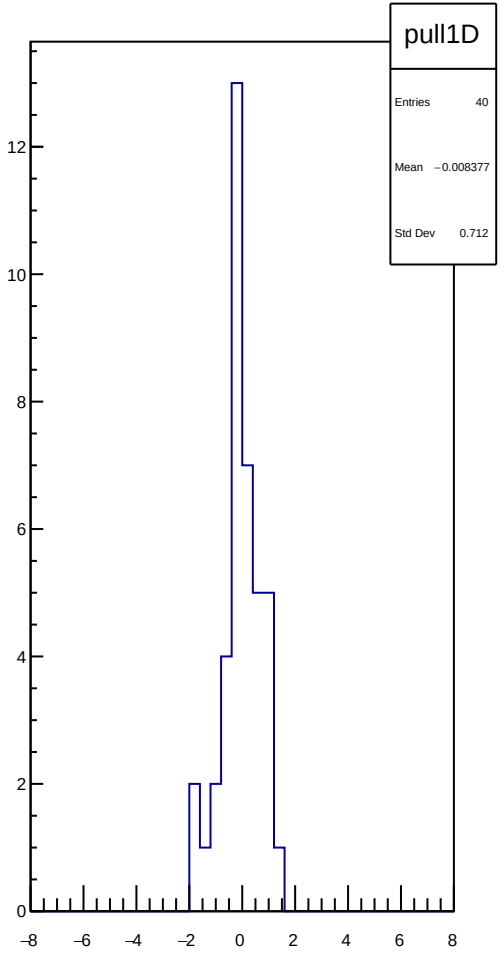

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.63 / 39
p0 −322.7 ± 9.738
−200
−300
−400
−500
−600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 75.66
Std Dev 56.88
3
2
1
0
−1
−2
−3

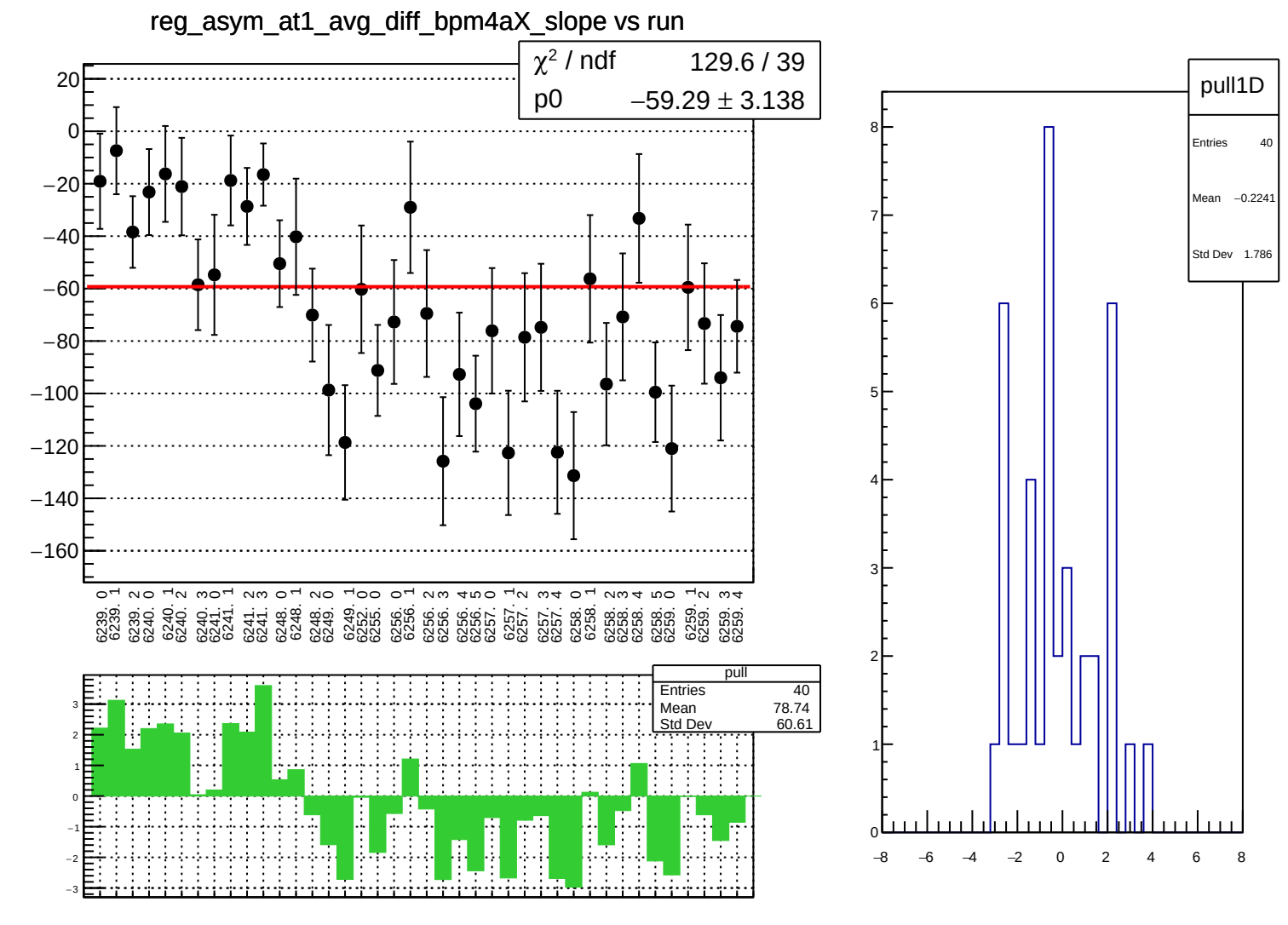

pull1D
Entries 40
Mean −0.1928
Std Dev 1.398
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

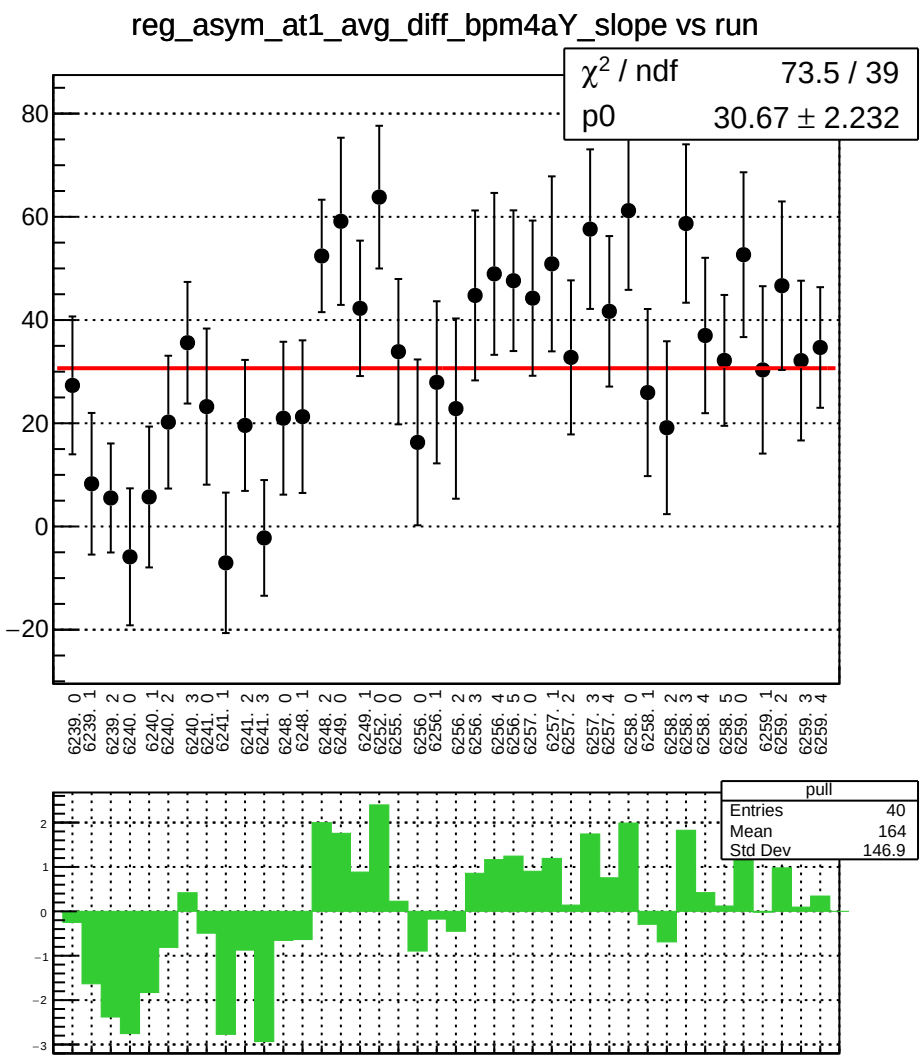

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.93 / 39
p0 −126.8 ± 6.499
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 131.3
Std Dev 113.1
1.5
1
0.5
0
−0.5
−1
−1.5

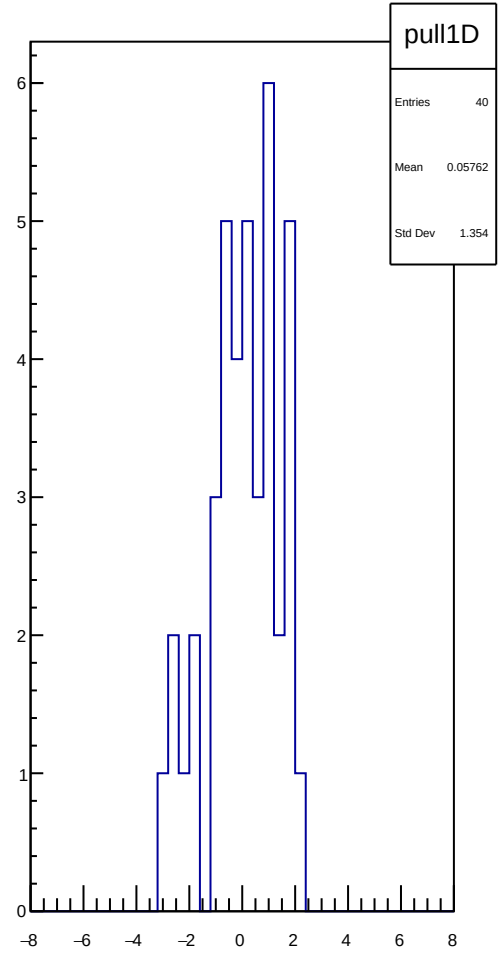

pull1D
Entries 40
Mean 0.04074
Std Dev 0.7046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

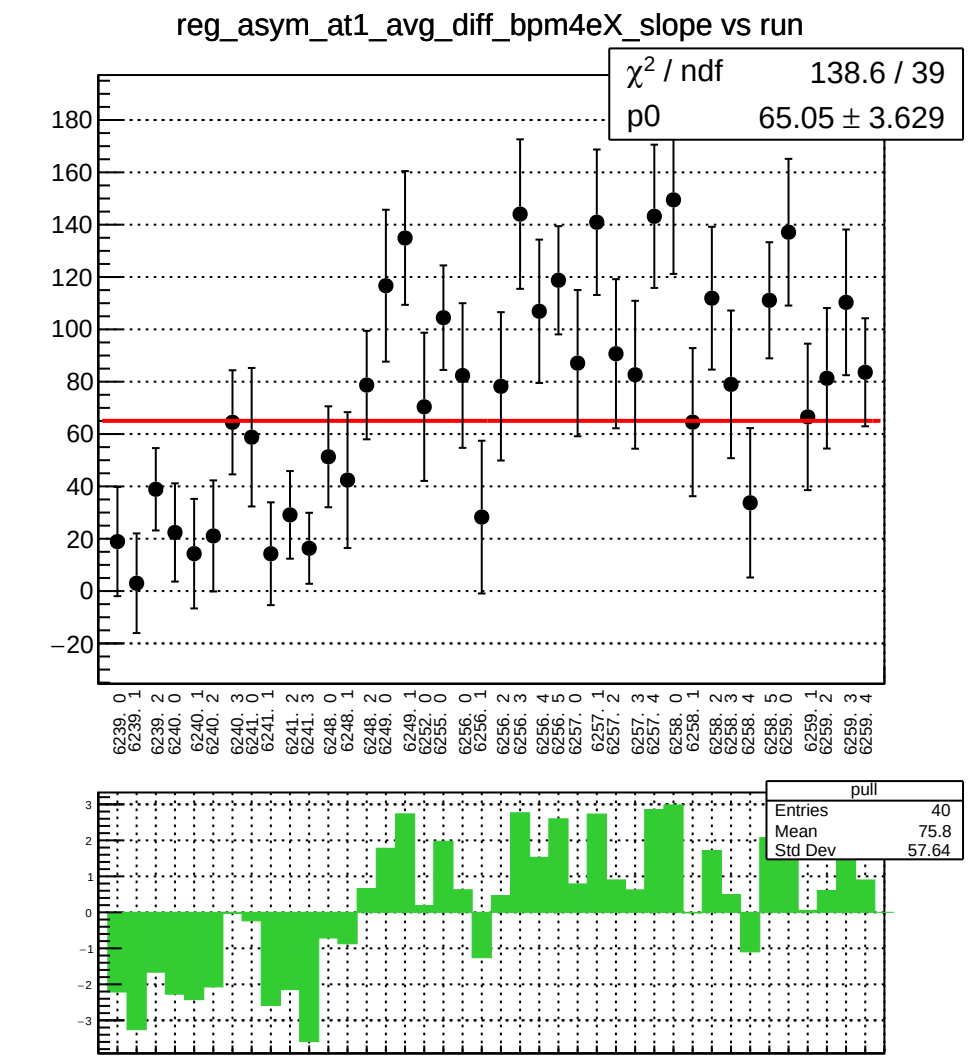

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 20.28 / 39
p0 108 ± 0.4599
pull
Entries 40
Mean −570
Std Dev 588

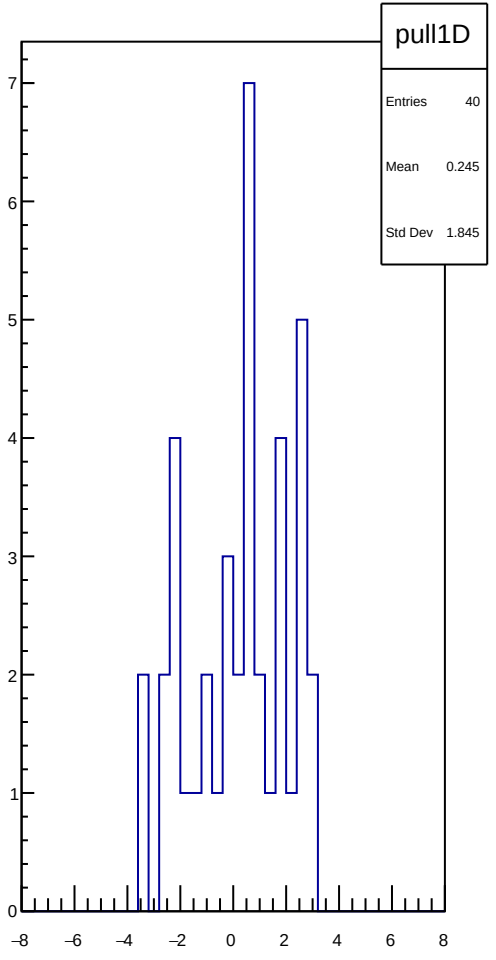

pull1D
Entries 40
Mean −0.008377
Std Dev 0.712

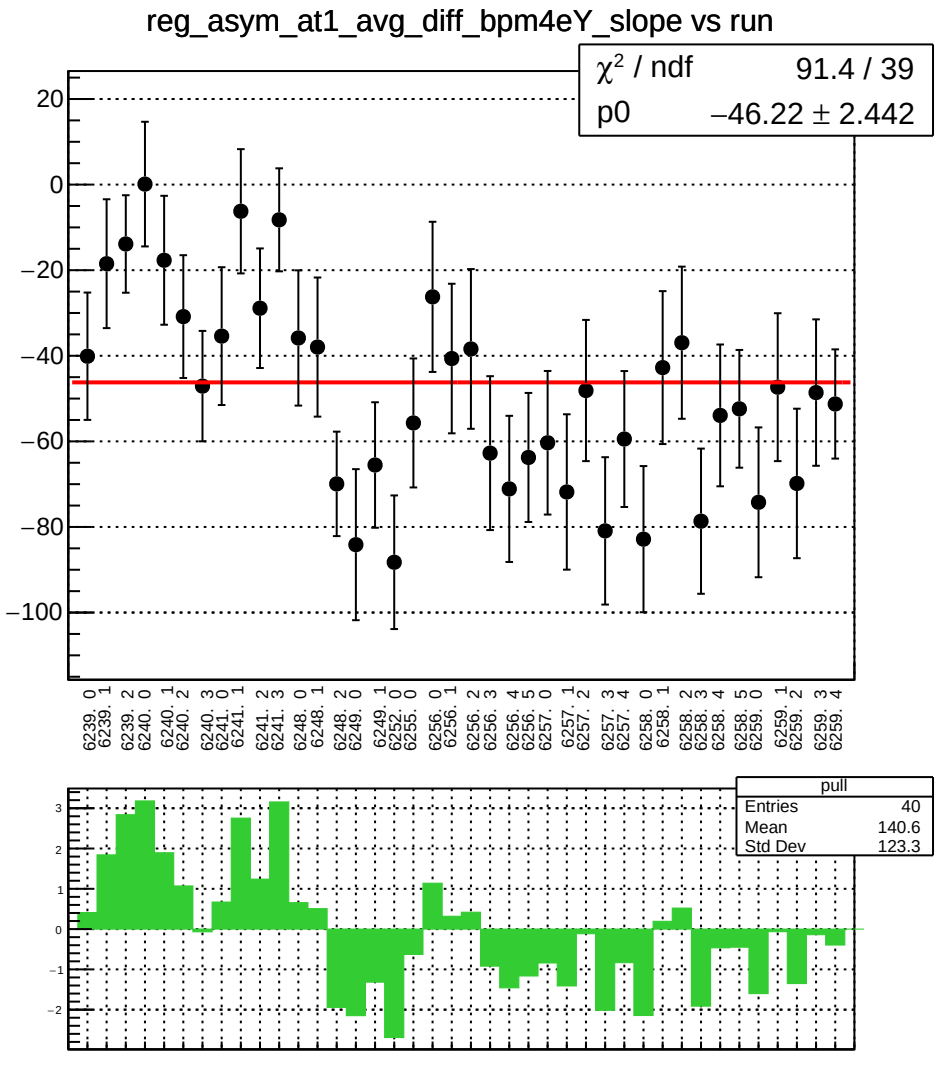

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 129.6 / 39
p0 −59.29 ± 3.138
pull
Entries 40
Mean 78.74
Std Dev 60.61
pull1D
Entries 40
Mean −0.2241
Std Dev 1.786

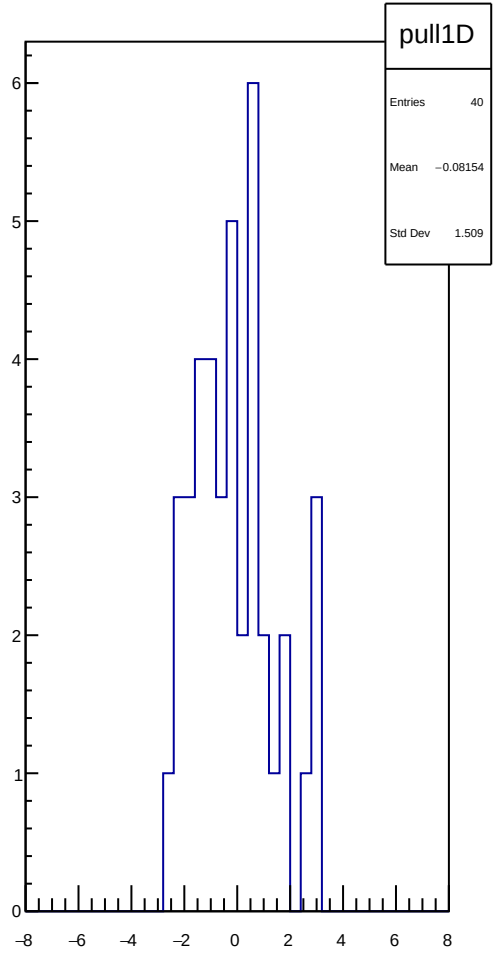

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.5 / 39
p0 30.67 ± 2.232
80
60
40
20
0
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 164
Std Dev 146.9
2
1
0
−1
−2
−3

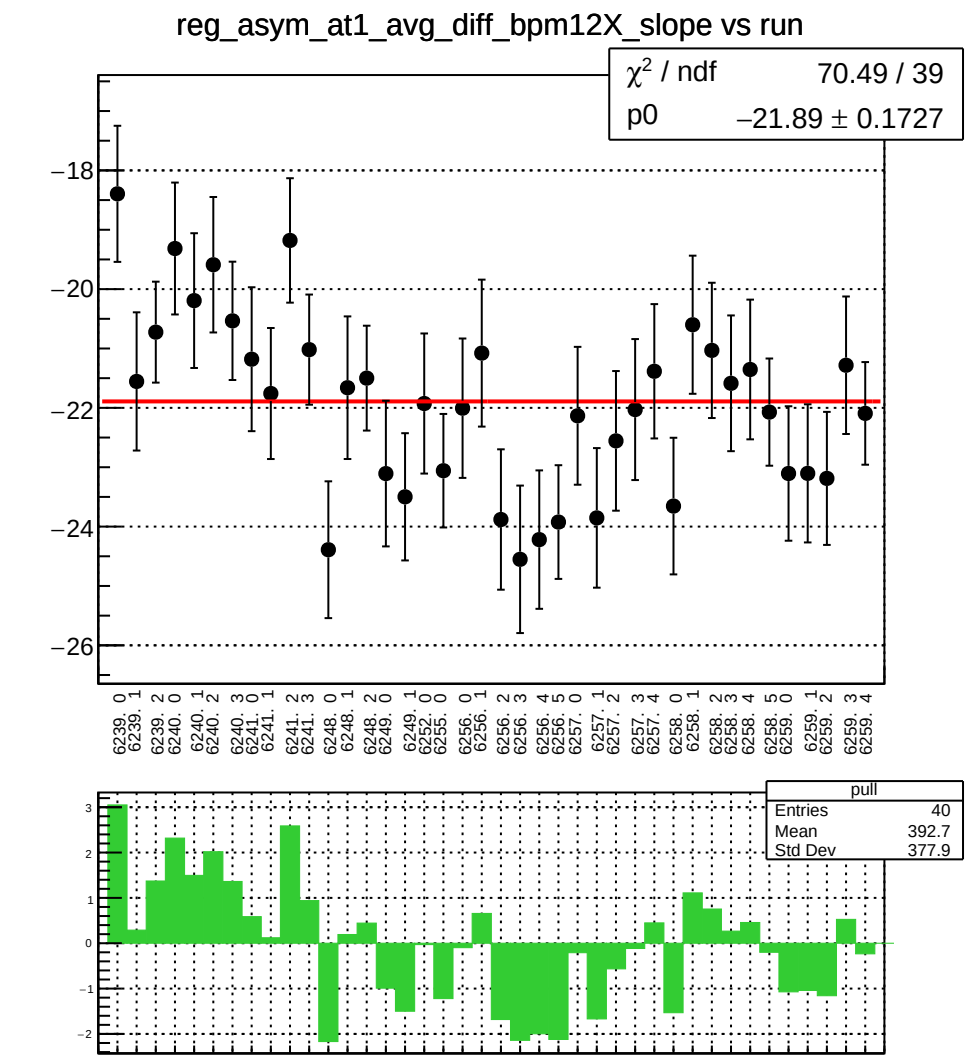

pull1D
Entries 40
Mean 0.05762
Std Dev 1.354
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

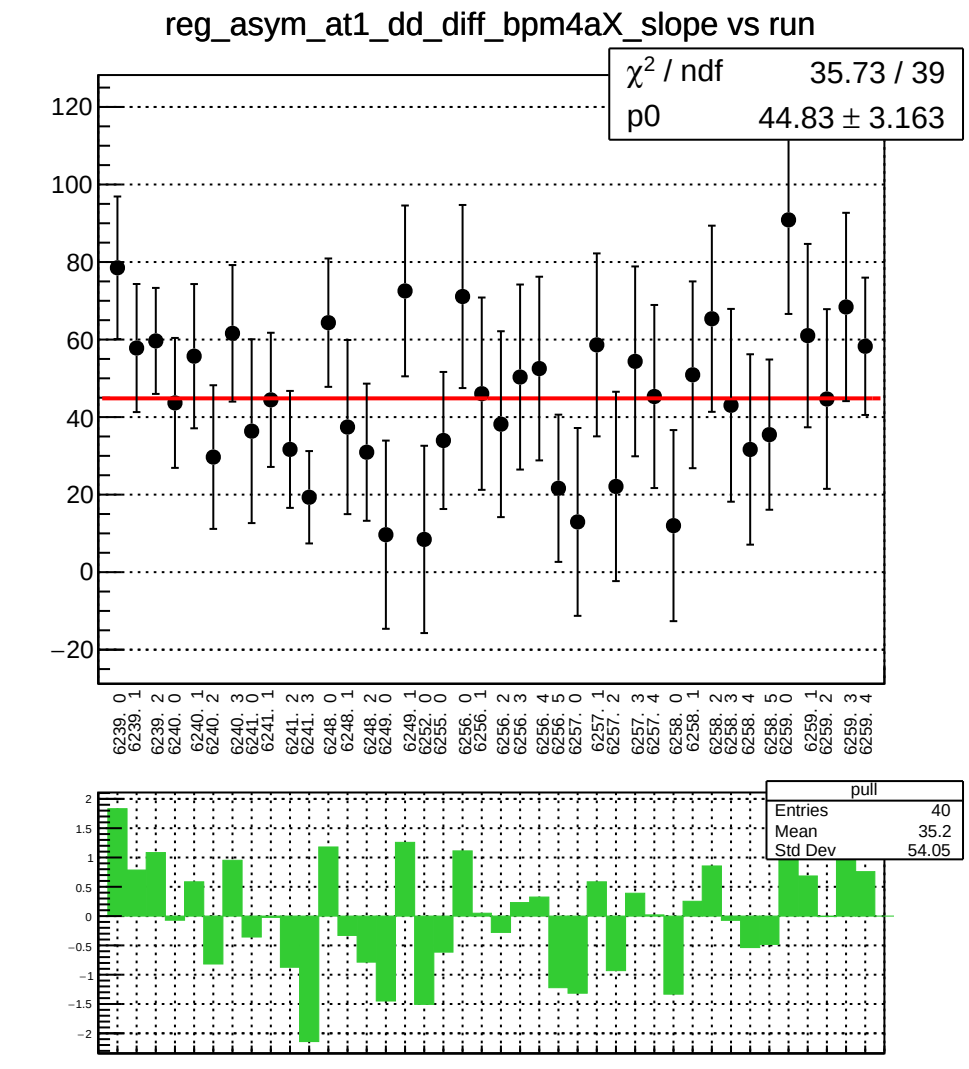

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 138.6 / 39
p0 65.05 ± 3.629
pull
Entries 40
Mean 75.8
Std Dev 57.64

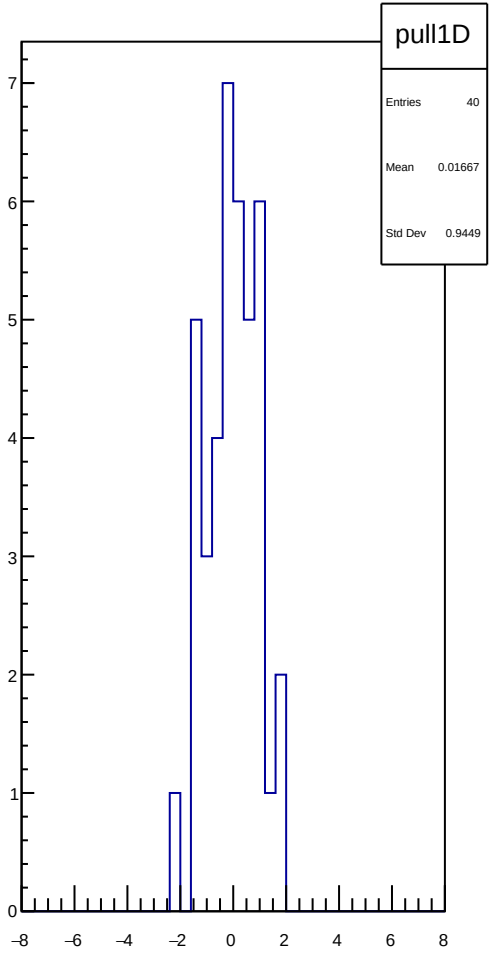

pull1D
Entries 40
Mean 0.245
Std Dev 1.845

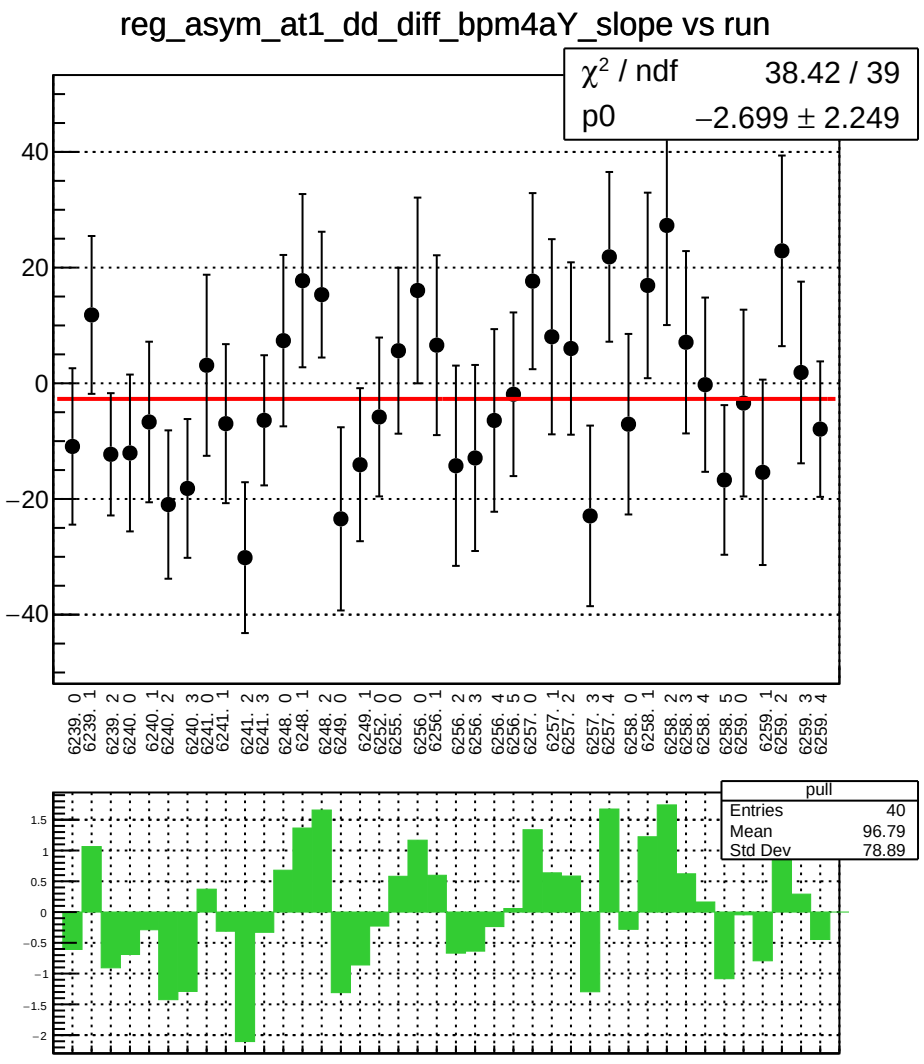

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.4 / 39
p0 −46.22 ± 2.442
pull
Entries 40
Mean 140.6
Std Dev 123.3

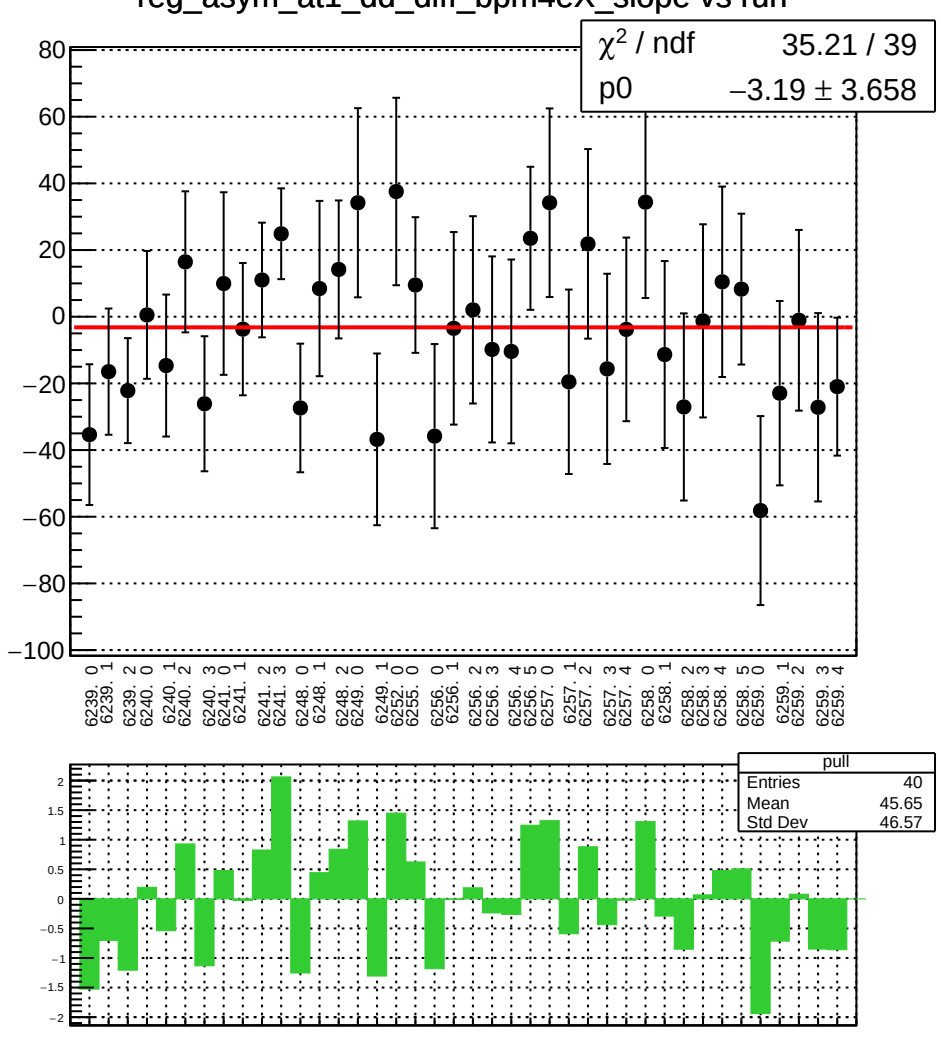

pull1D
Entries 40
Mean −0.08154
Std Dev 1.509

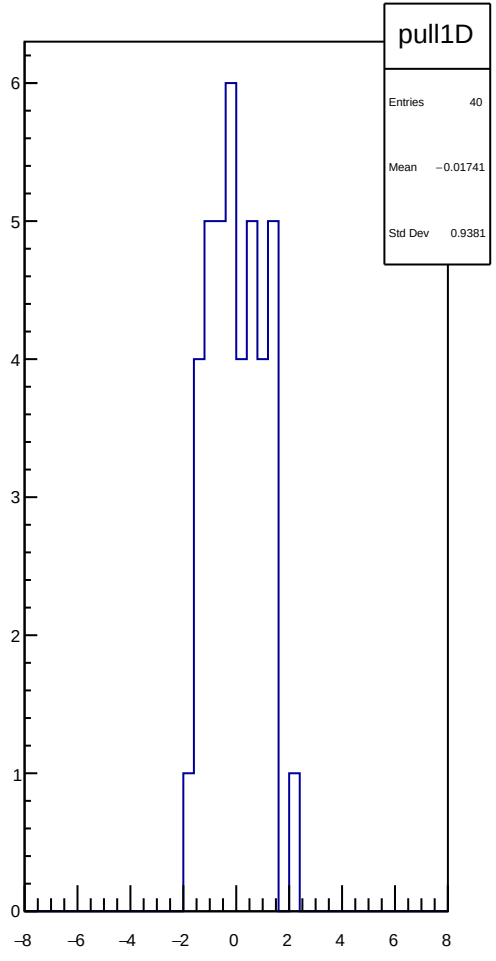

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 70.49 / 39
p0 −21.89 ± 0.1727
−18
−20
−22
−24
−26
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 392.7
Std Dev 377.9
3
2
1
0
−1
−2
pull1D
Entries 40
Mean −0.0186
Std Dev 1.327
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

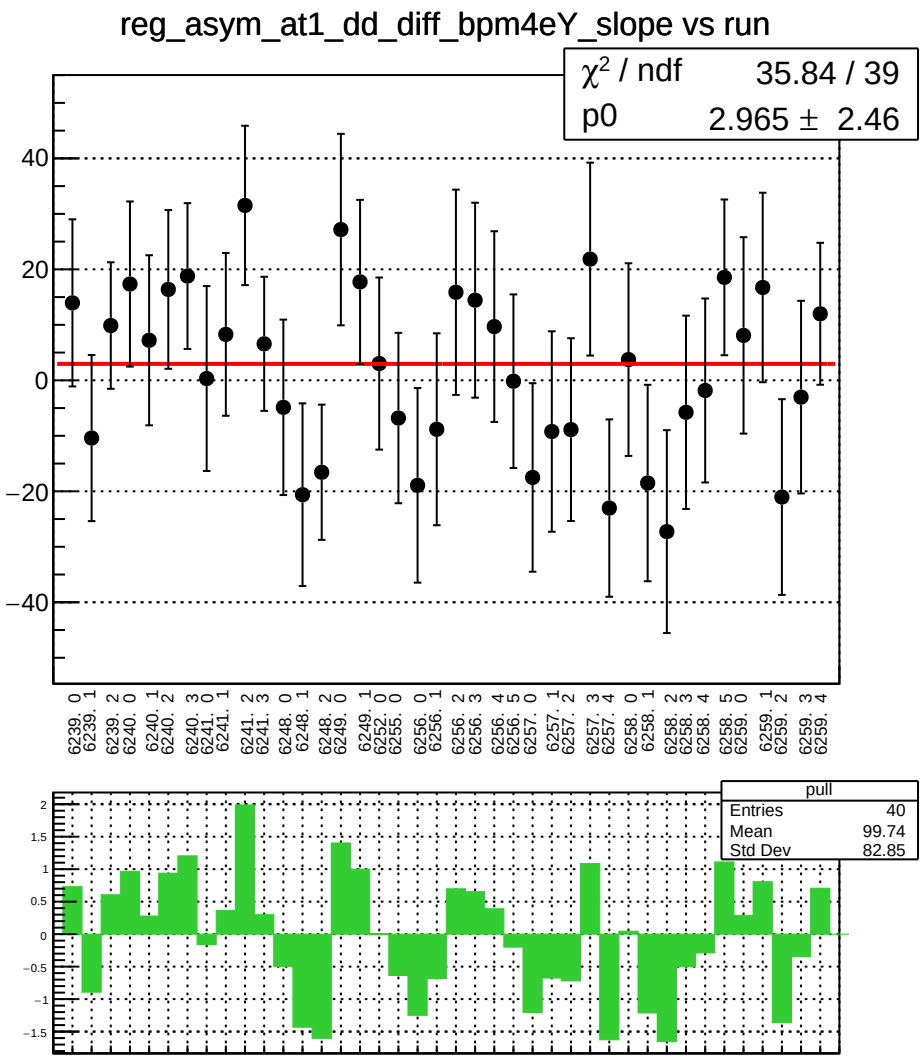

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.73 / 39
p0 44.83 ± 3.163
120
100
80
60
40
20
0
−20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 35.2
Std Dev 54.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

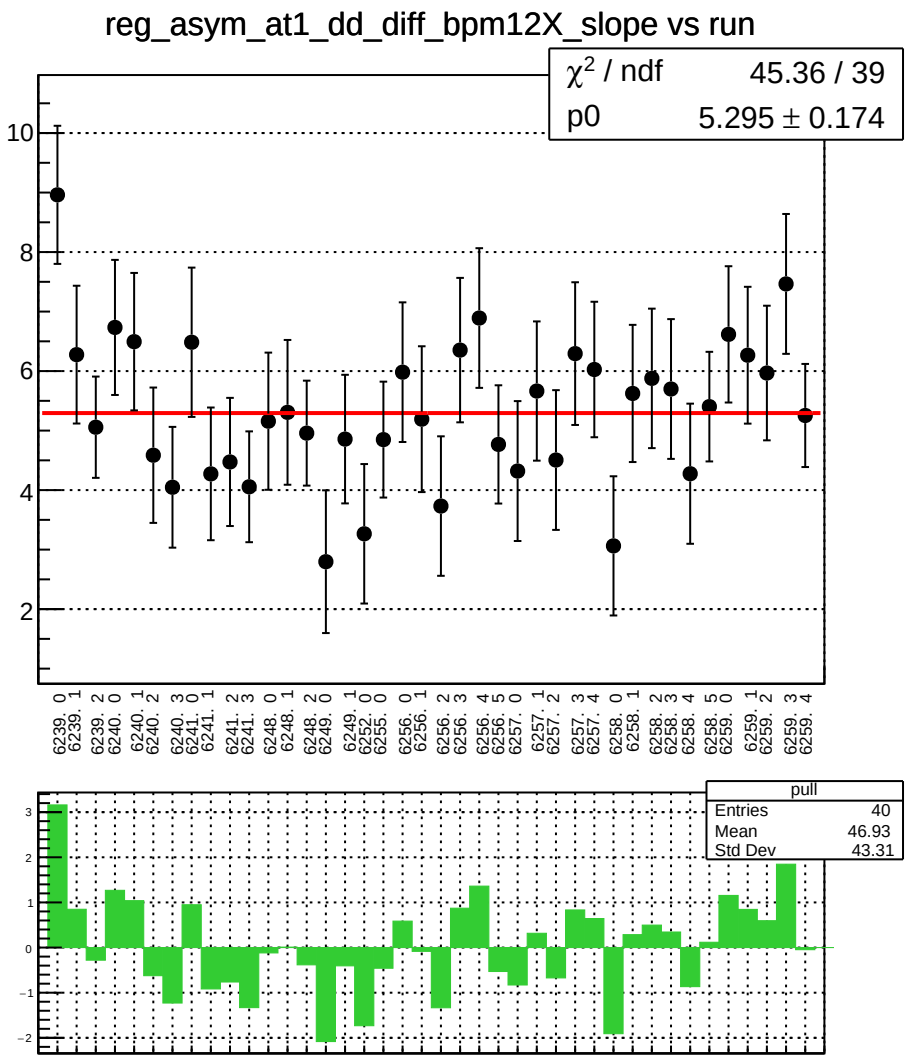

pull1D
Entries 40
Mean 0.01667
Std Dev 0.9449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

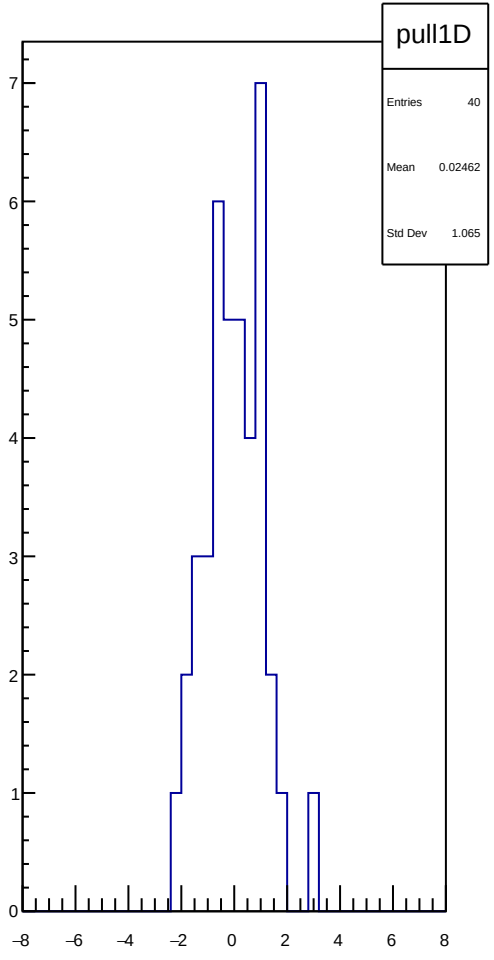

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.42 / 39
p0 −2.699 ± 2.249
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 96.79
Std Dev 78.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.03854
Std Dev 0.9794
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

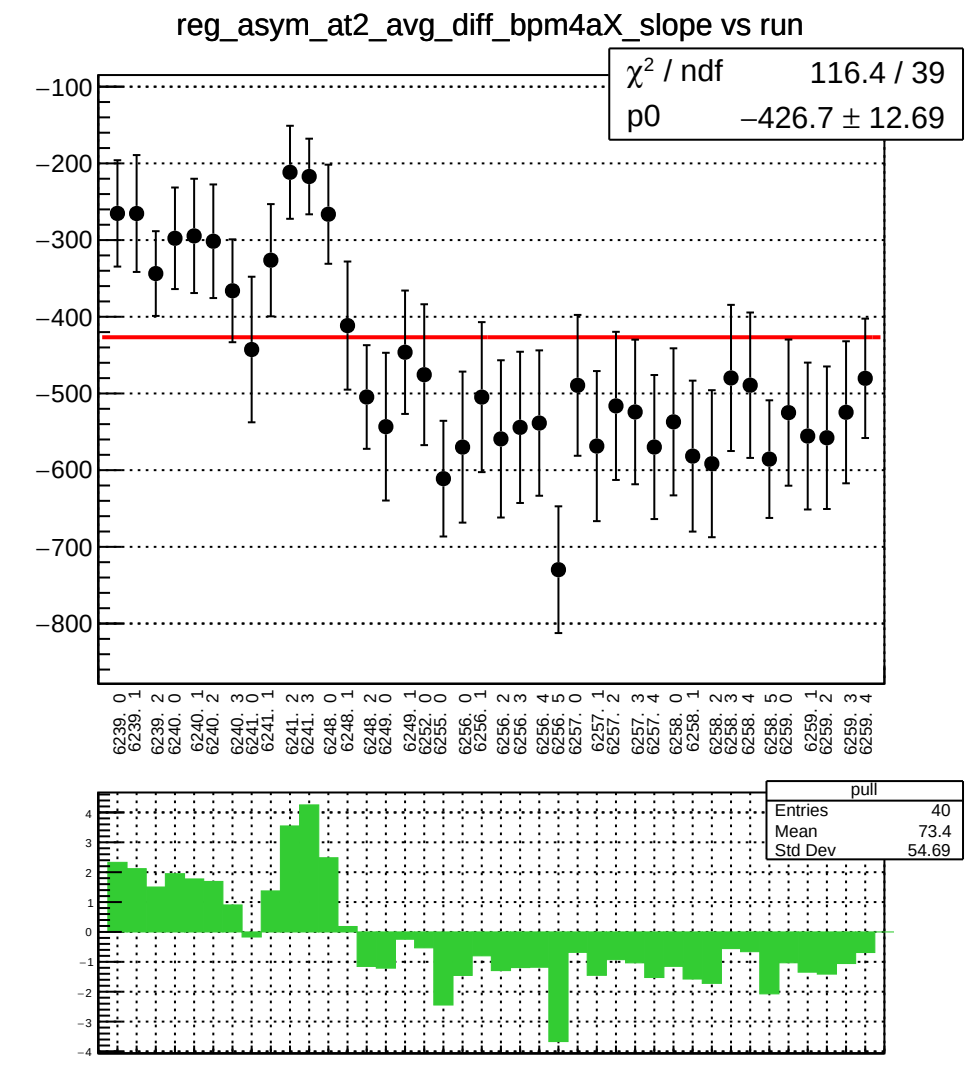

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.21 / 39
p0 −3.19 ± 3.658
pull
Entries 40
Mean 45.65
Std Dev 46.57

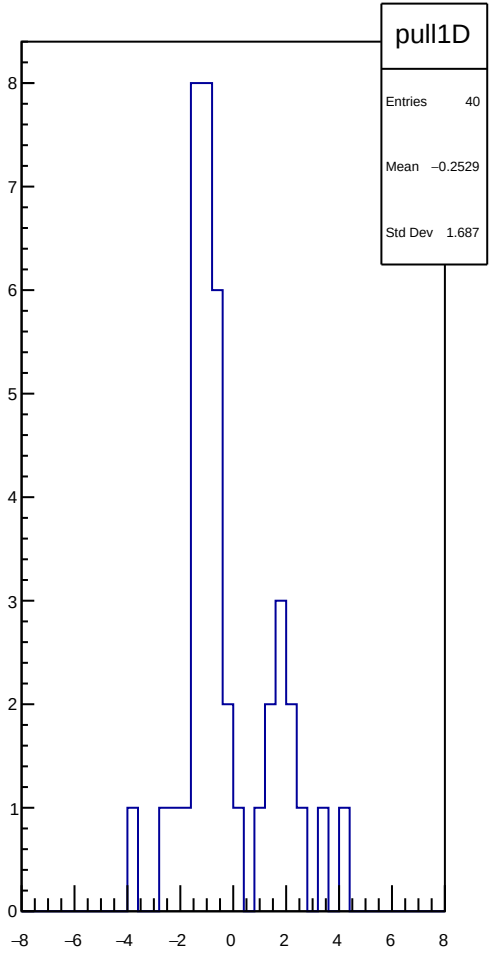

pull1D
Entries 40
Mean −0.01741
Std Dev 0.9381

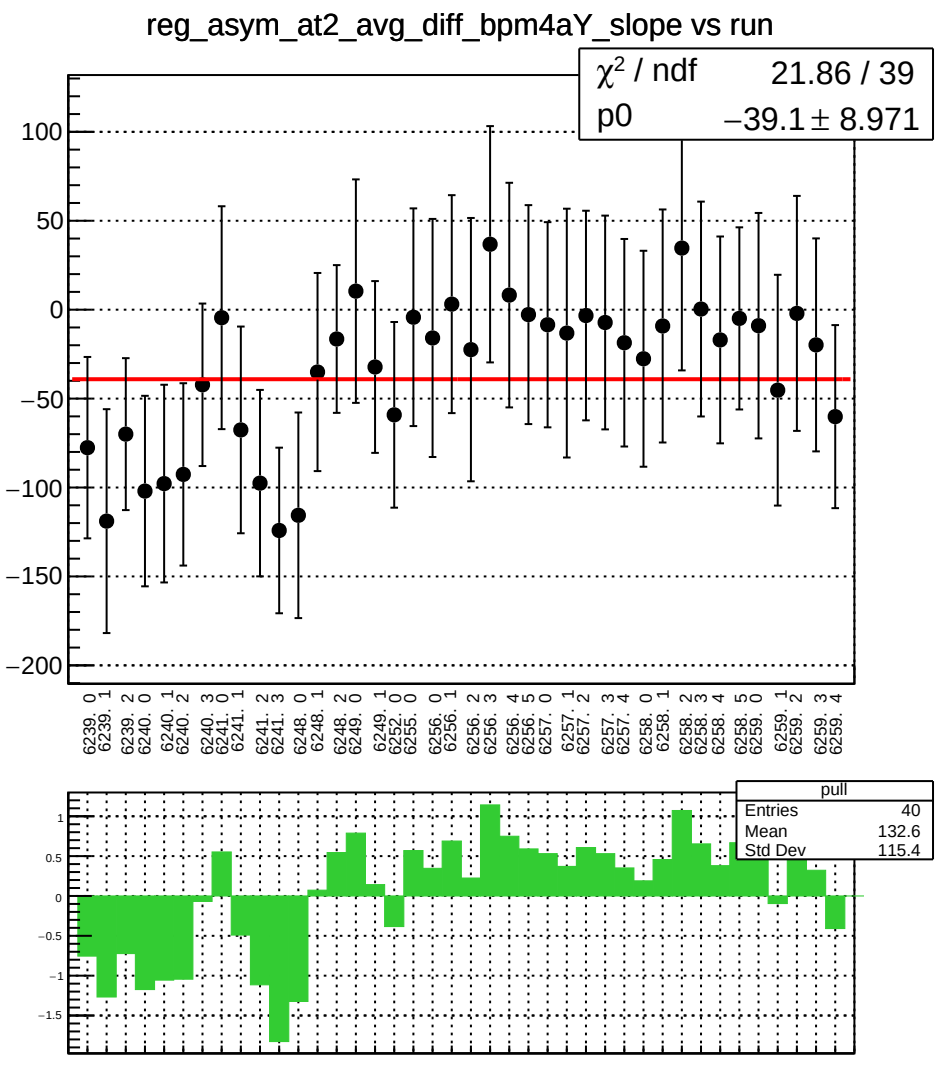

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.84 / 39
p0 2.965 ± 2.46
40
20
0
−20
−40
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 99.74
Std Dev 82.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.03427
Std Dev 0.9459
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

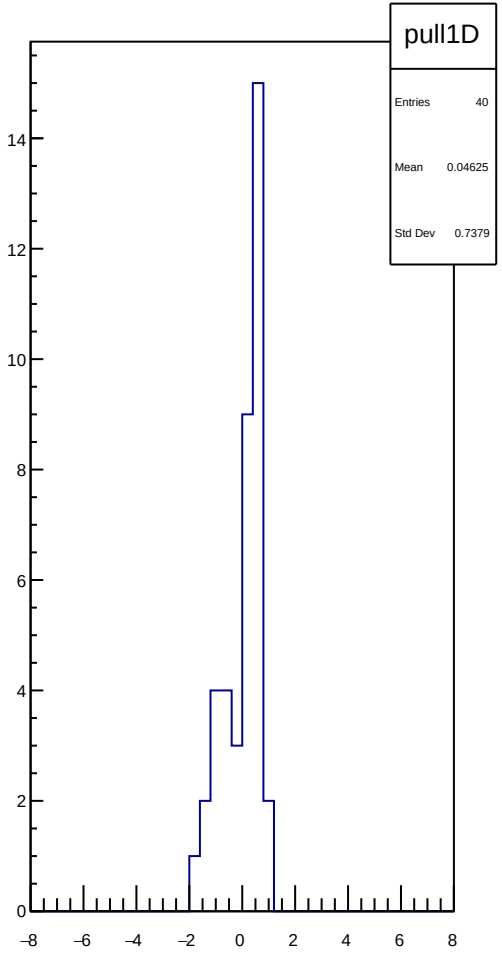

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 45.36 / 39
p0 5.295 ± 0.174
pull
Entries 40
Mean 46.93
Std Dev 43.31

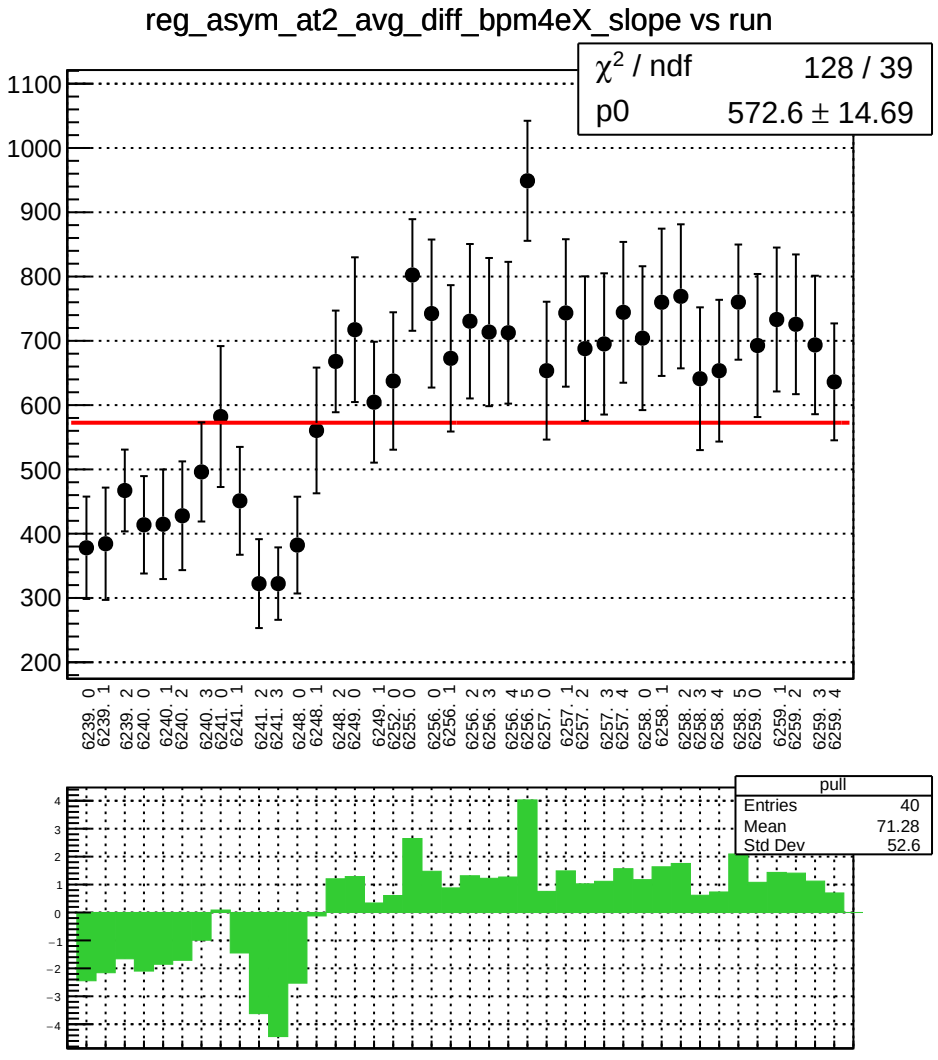

pull1D
Entries 40
Mean 0.02462
Std Dev 1.065

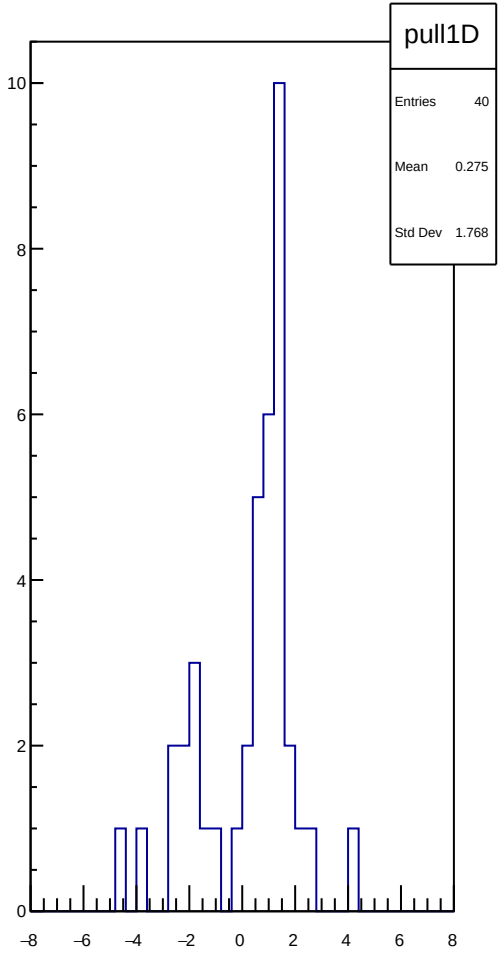

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 116.4 / 39
p0 −426.7 ± 12.69
pull
Entries 40
Mean 73.4
Std Dev 54.69

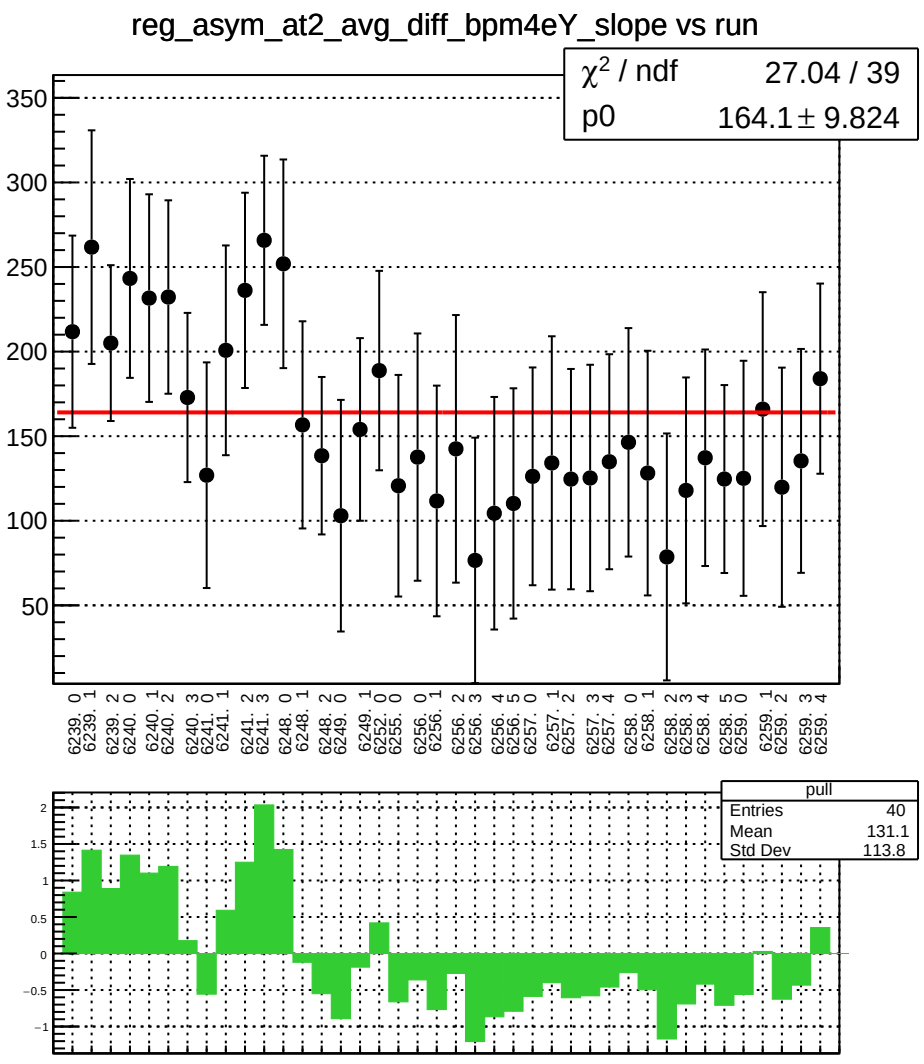

pull1D
Entries 40
Mean −0.2529
Std Dev 1.687

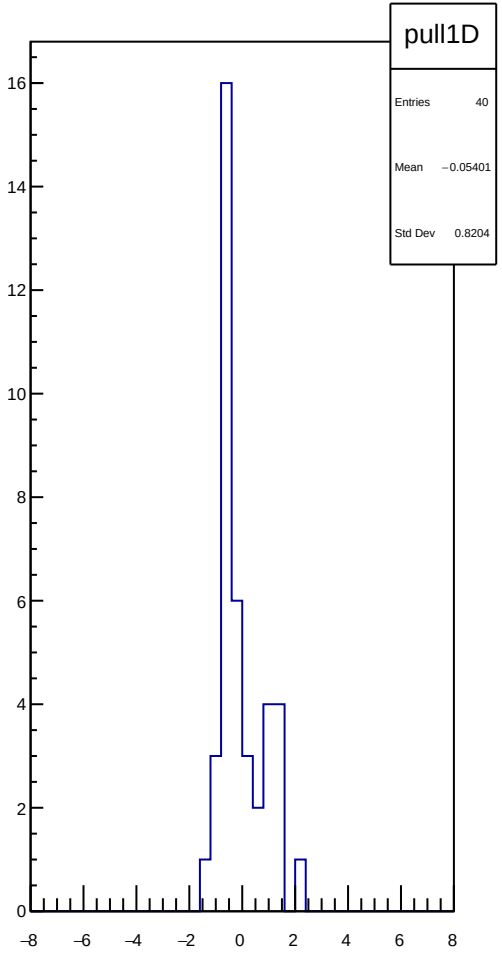

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.86 / 39
p0 −39.1 ± 8.971
100
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 132.6
Std Dev 115.4
1
0.5
0
−0.5
−1
−1.5

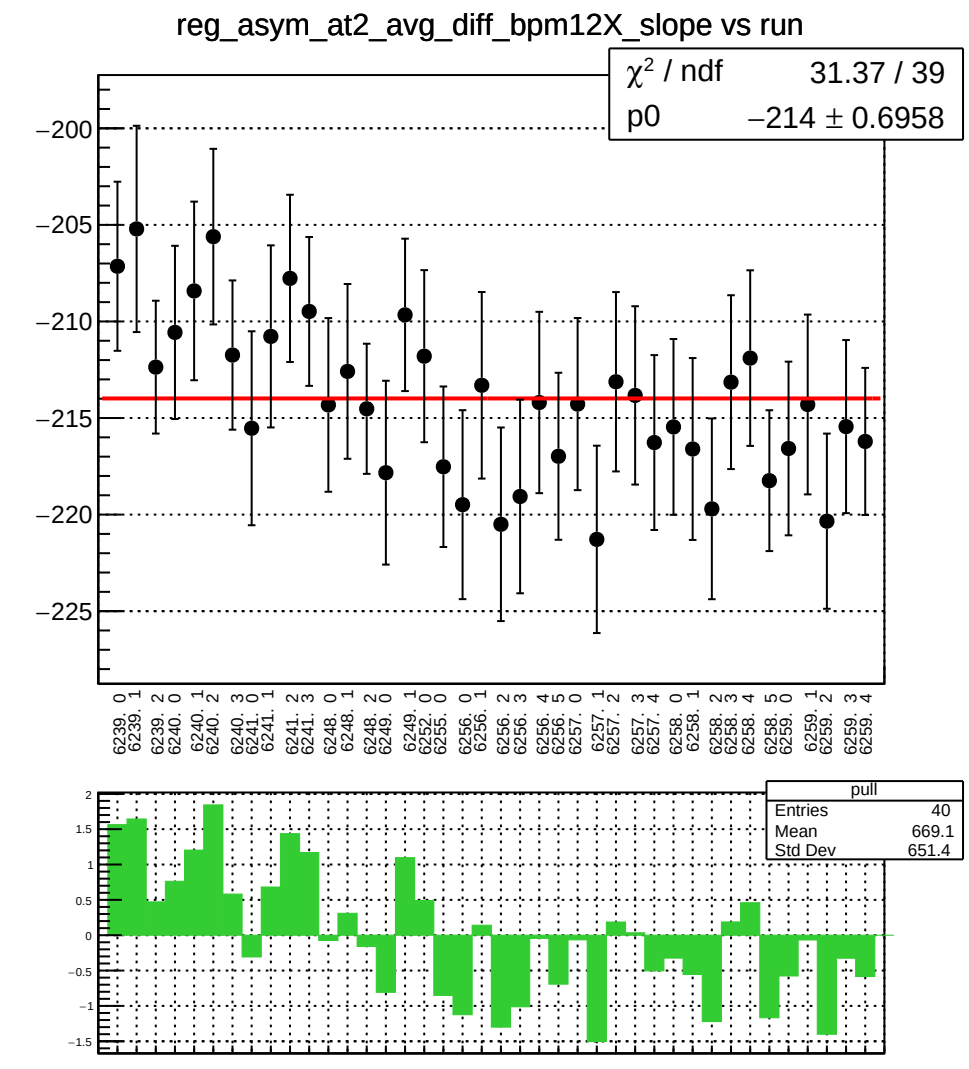

pull1D
Entries 40
Mean 0.04625
Std Dev 0.7379
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

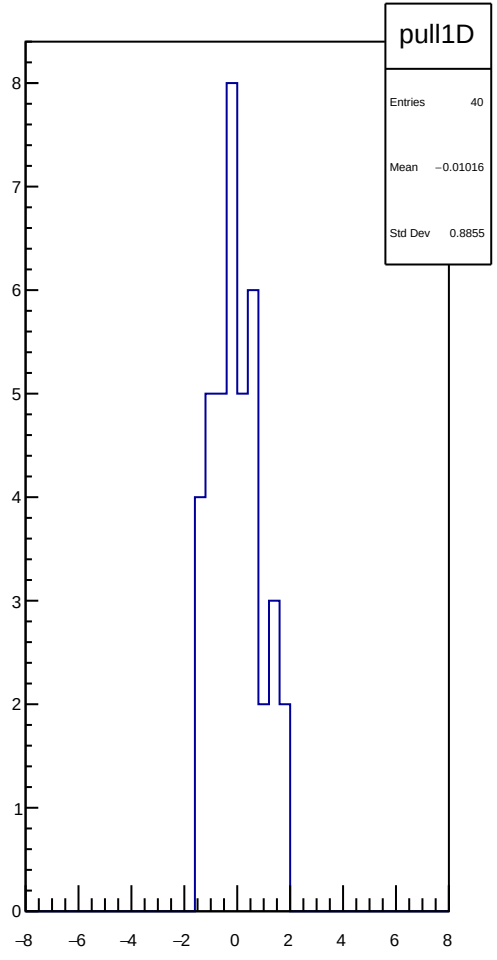

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 128 / 39
p0 572.6 ± 14.69
pull
Entries 40
Mean 71.28
Std Dev 52.6

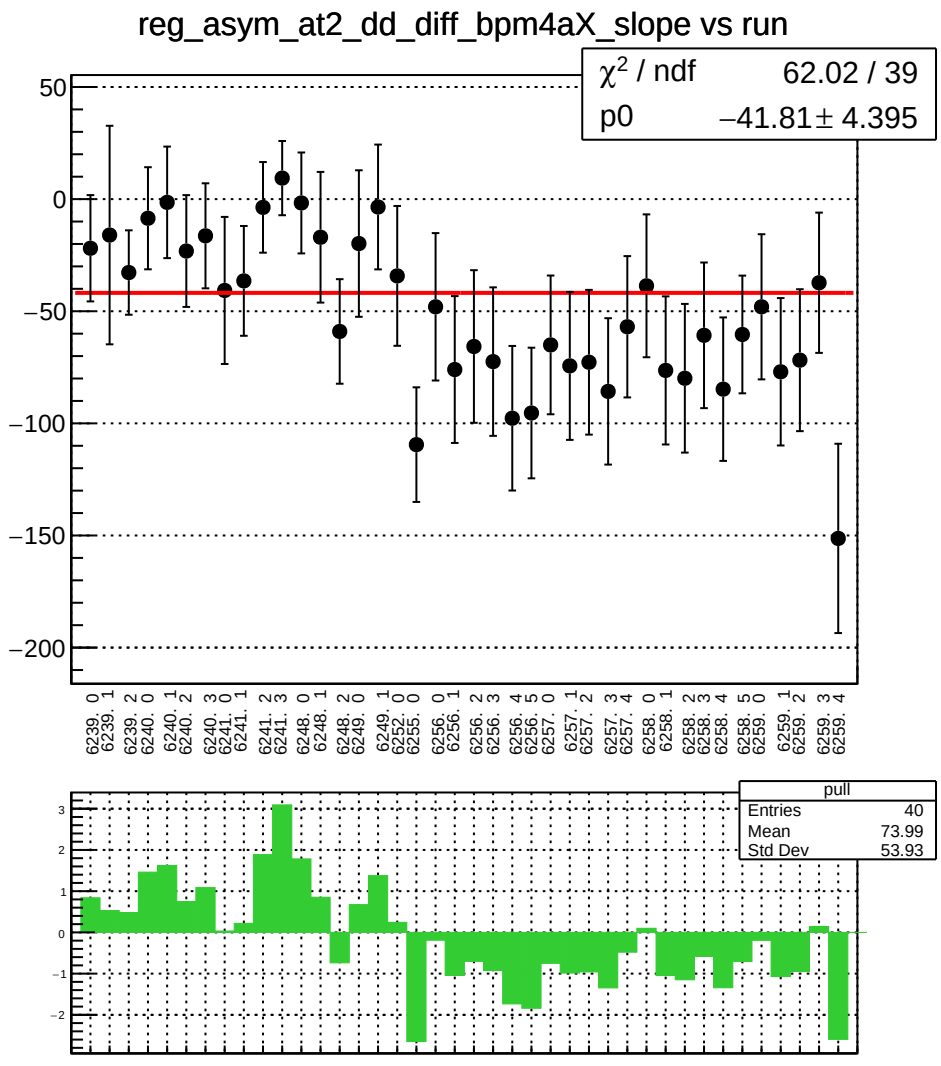

pull1D
Entries 40
Mean 0.275
Std Dev 1.768

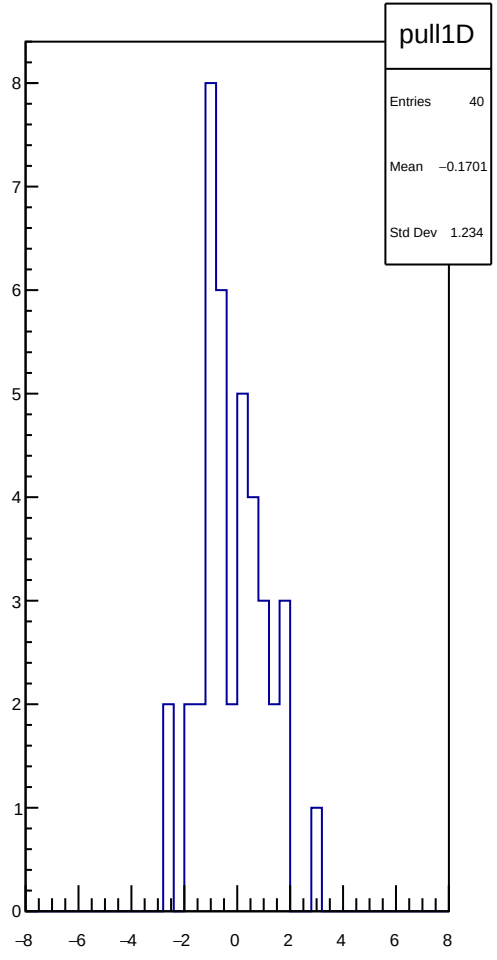

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.04 / 39
p0 164.1 ± 9.824
350
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 131.1
Std Dev 113.8
2
1.5
1
0.5
0
−0.5
−1

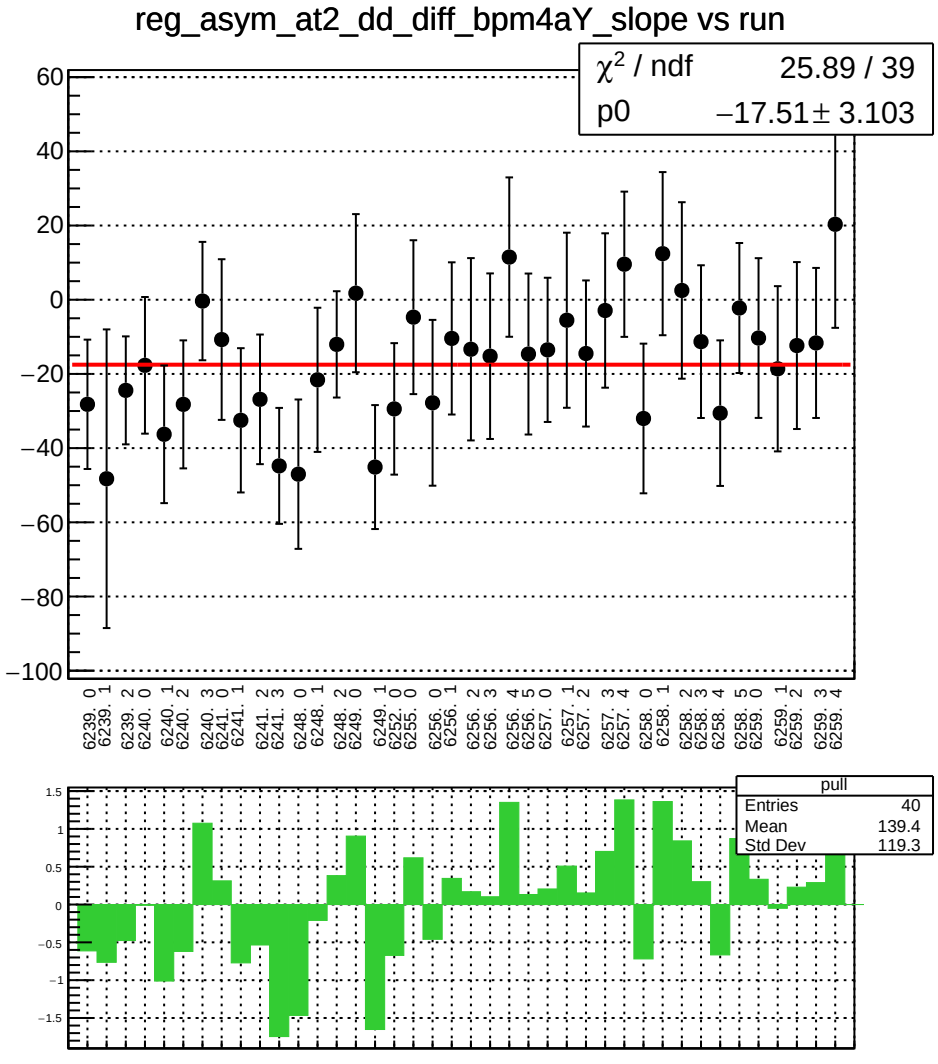

pull1D
Entries 40
Mean −0.05401
Std Dev 0.8204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

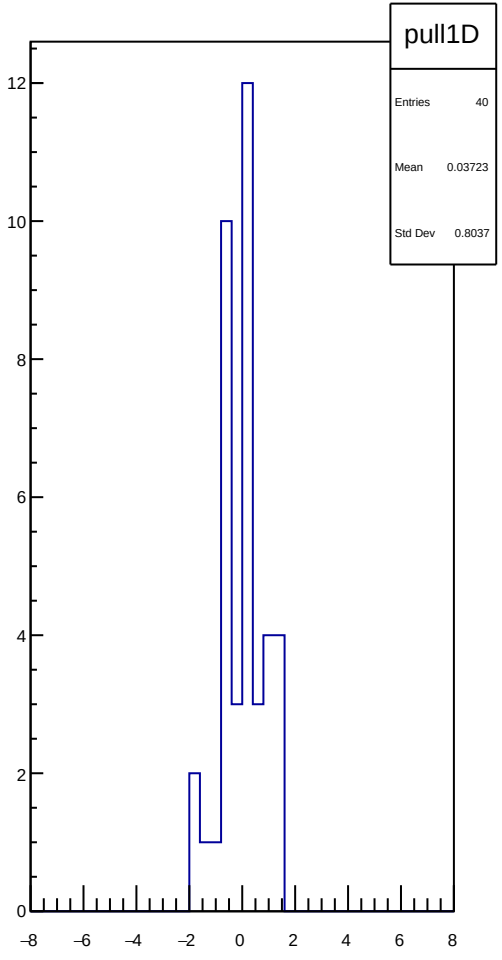

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 31.37 / 39
p0 −214 ± 0.6958
−200
−205
−210
−215
−220
−225
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 669.1
Std Dev 651.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

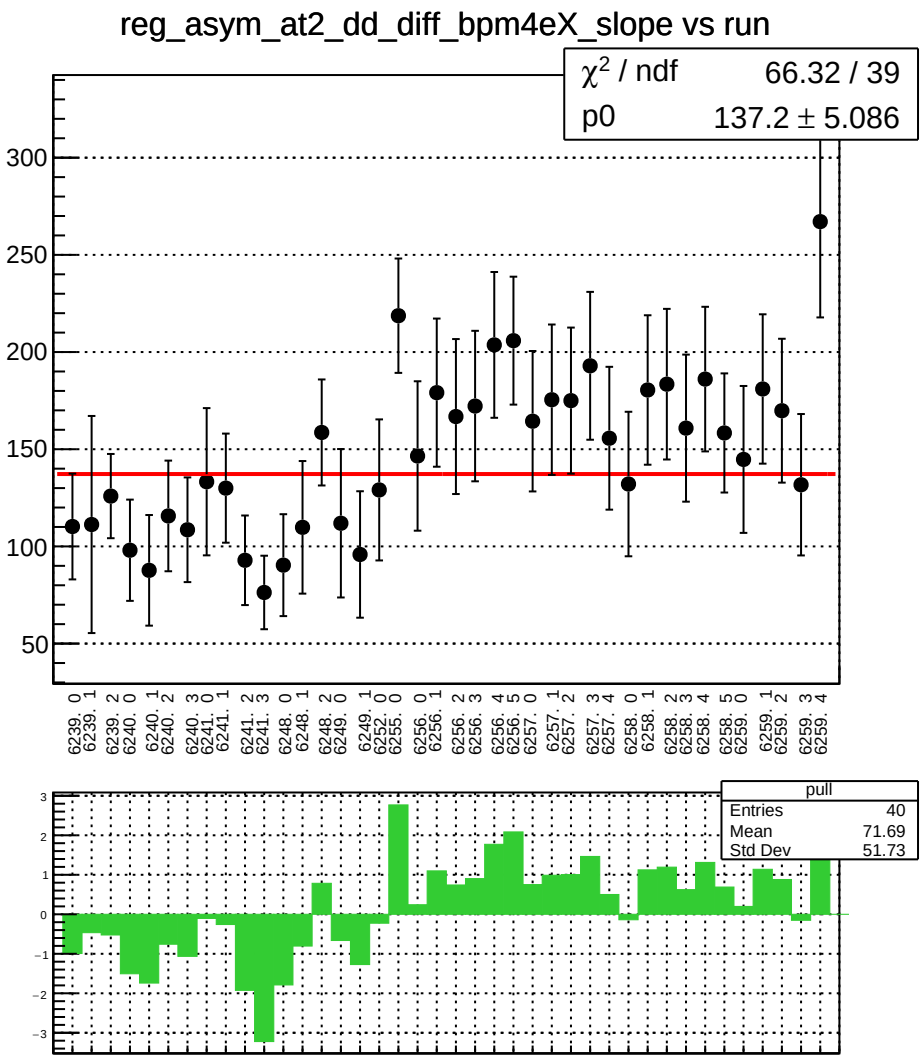

pull1D
Entries 40
Mean −0.01016
Std Dev 0.8855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

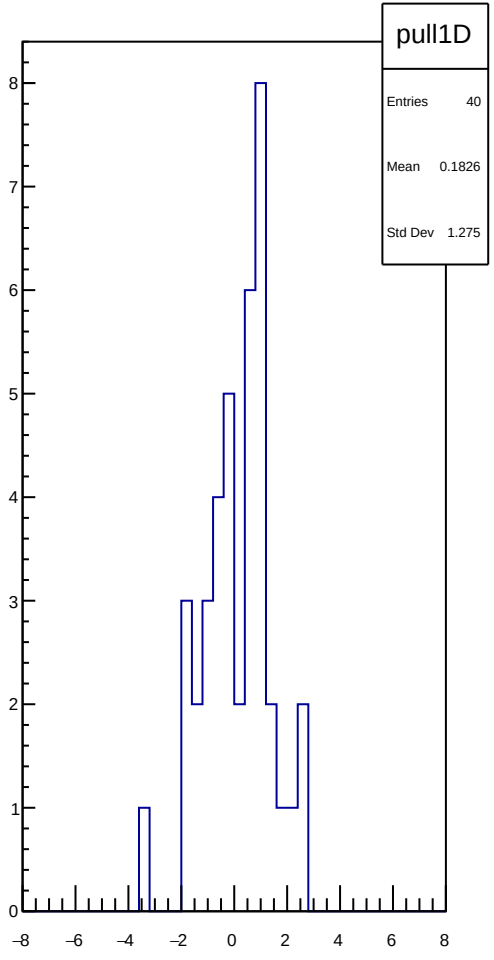

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 62.02 / 39
p0 −41.81 ± 4.395
50
0
−50
−100
−150
−200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 73.99
Std Dev 53.93
3
2
1
0
−1
−2

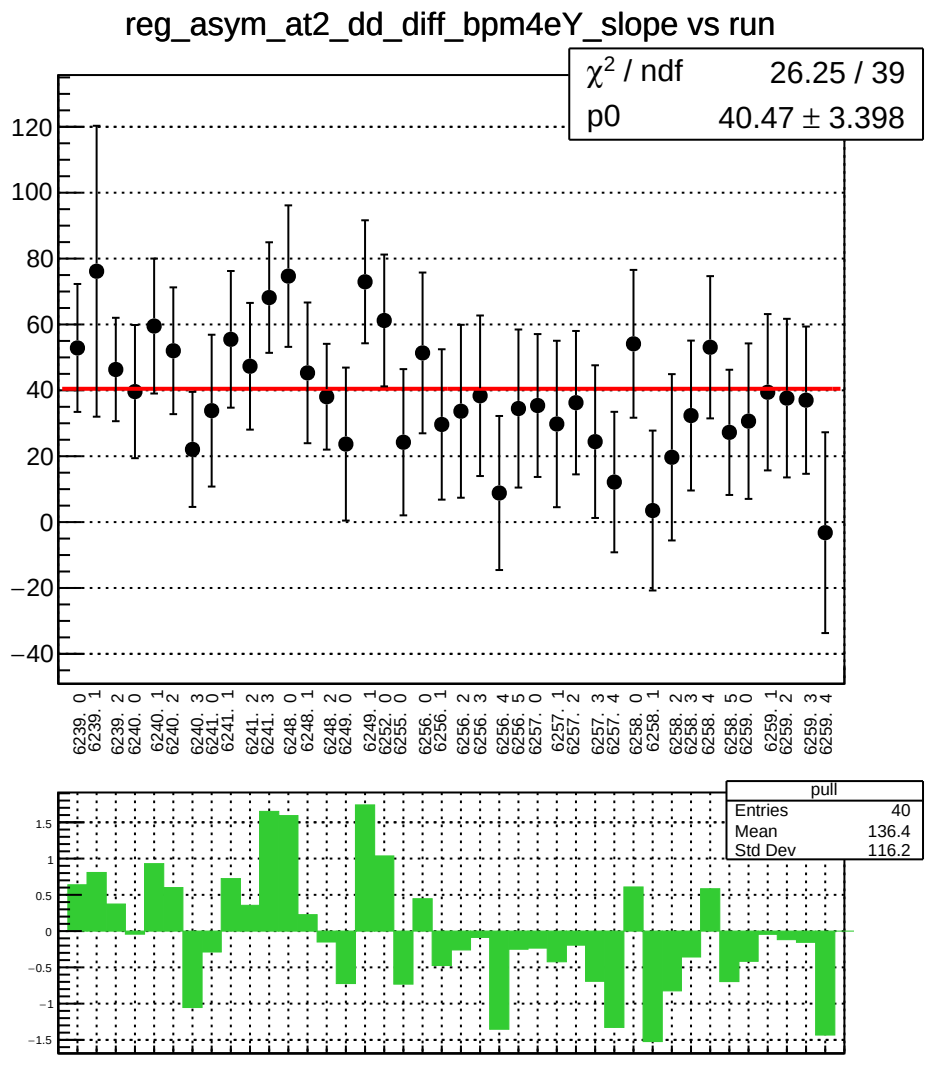

pull1D
Entries 40
Mean −0.1701
Std Dev 1.234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

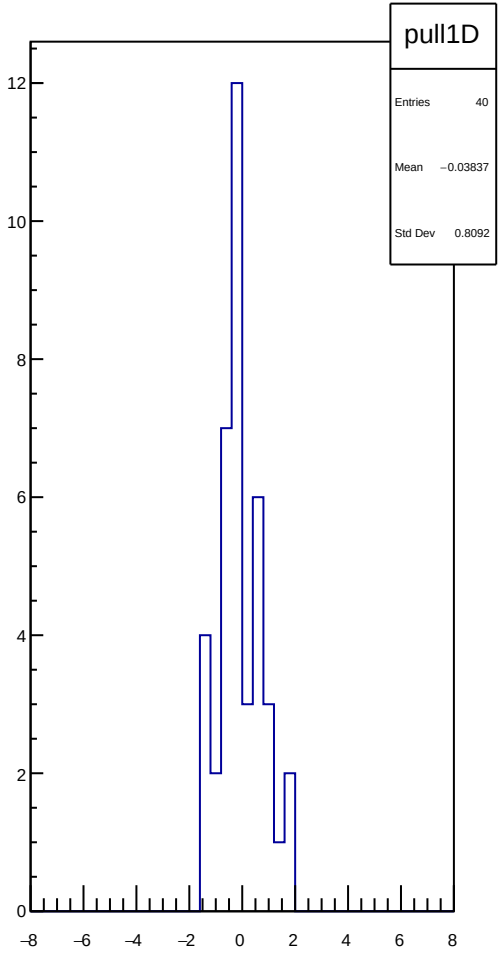

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.89 / 39
p0 −17.51 ± 3.103
60
40
20
0
−20
−40
−60
−80
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 139.4
Std Dev 119.3
1.5
1
0.5
0
−0.5
−1
−1.5

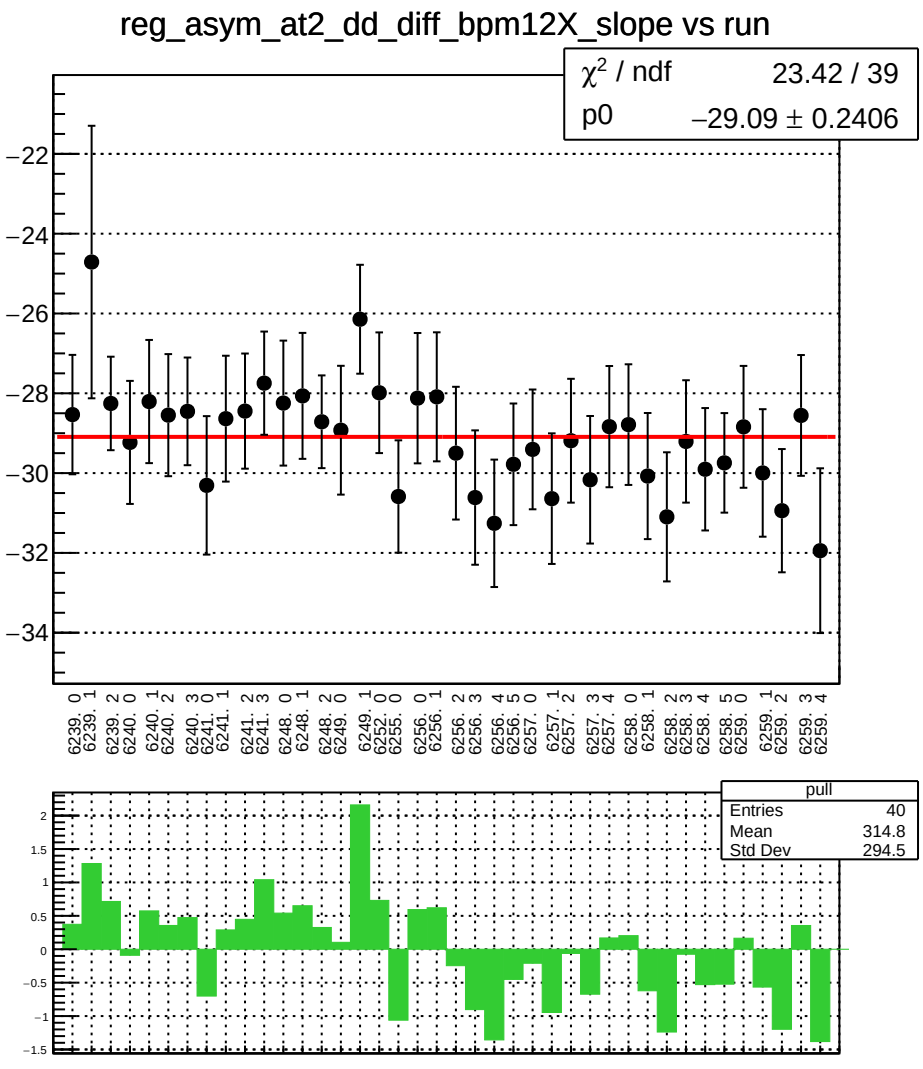

pull1D
Entries 40
Mean 0.03723
Std Dev 0.8037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

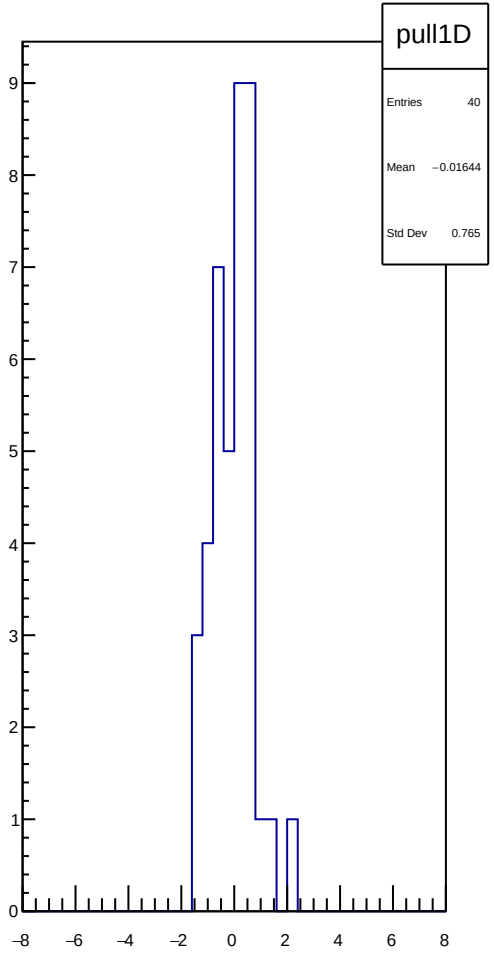

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.32 / 39
p0 137.2 ± 5.086
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 71.69
Std Dev 51.73
3
2
1
0
−1
−2
−3

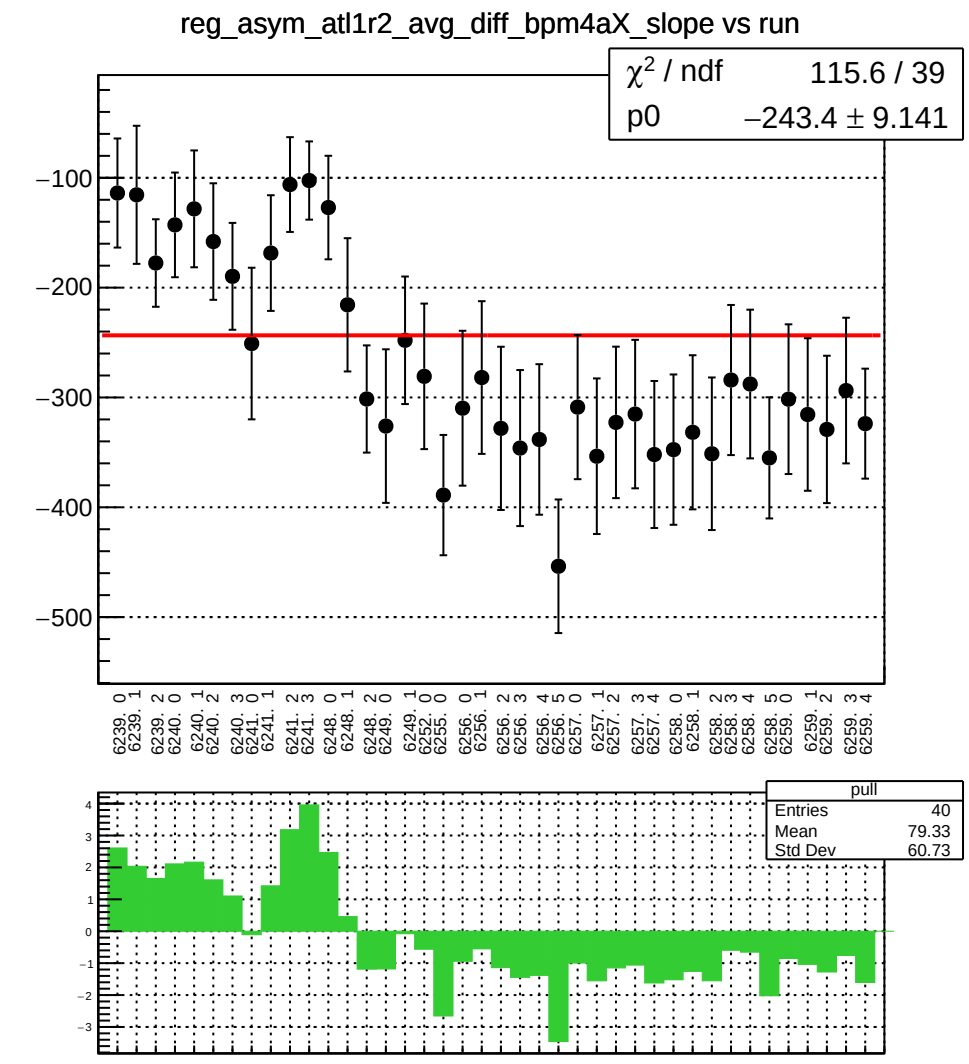

pull1D
Entries 40
Mean 0.1826
Std Dev 1.275
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

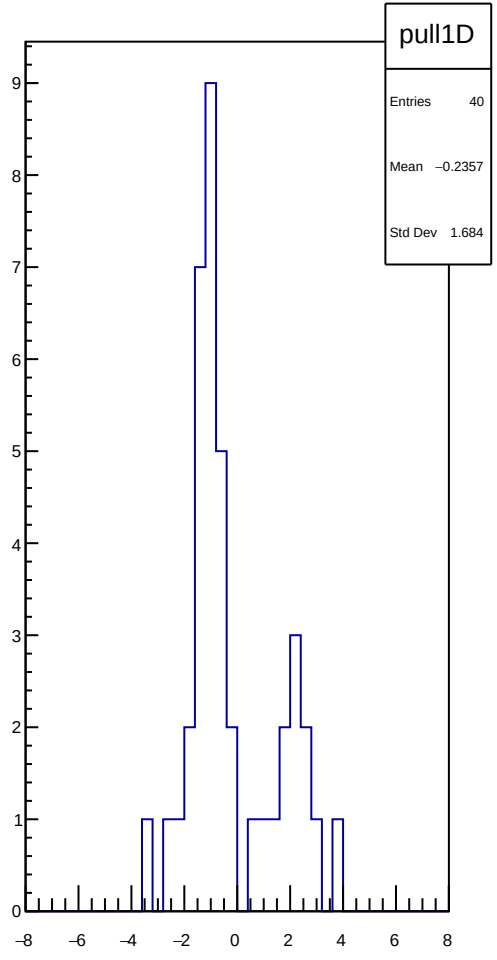

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.25 / 39
p0 40.47 ± 3.398
pull
Entries 40
Mean 136.4
Std Dev 116.2

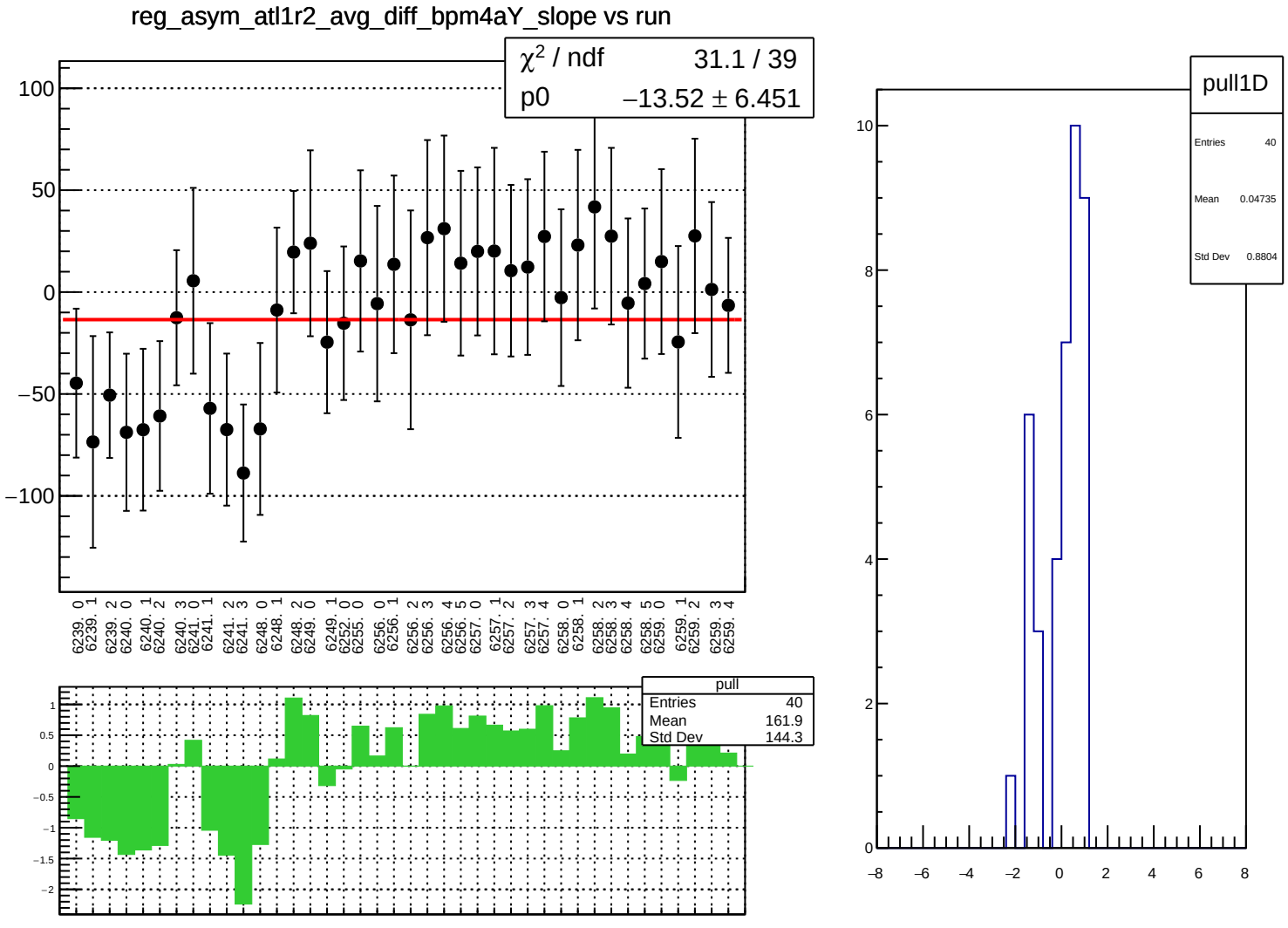

pull1D
Entries 40
Mean −0.03837
Std Dev 0.8092

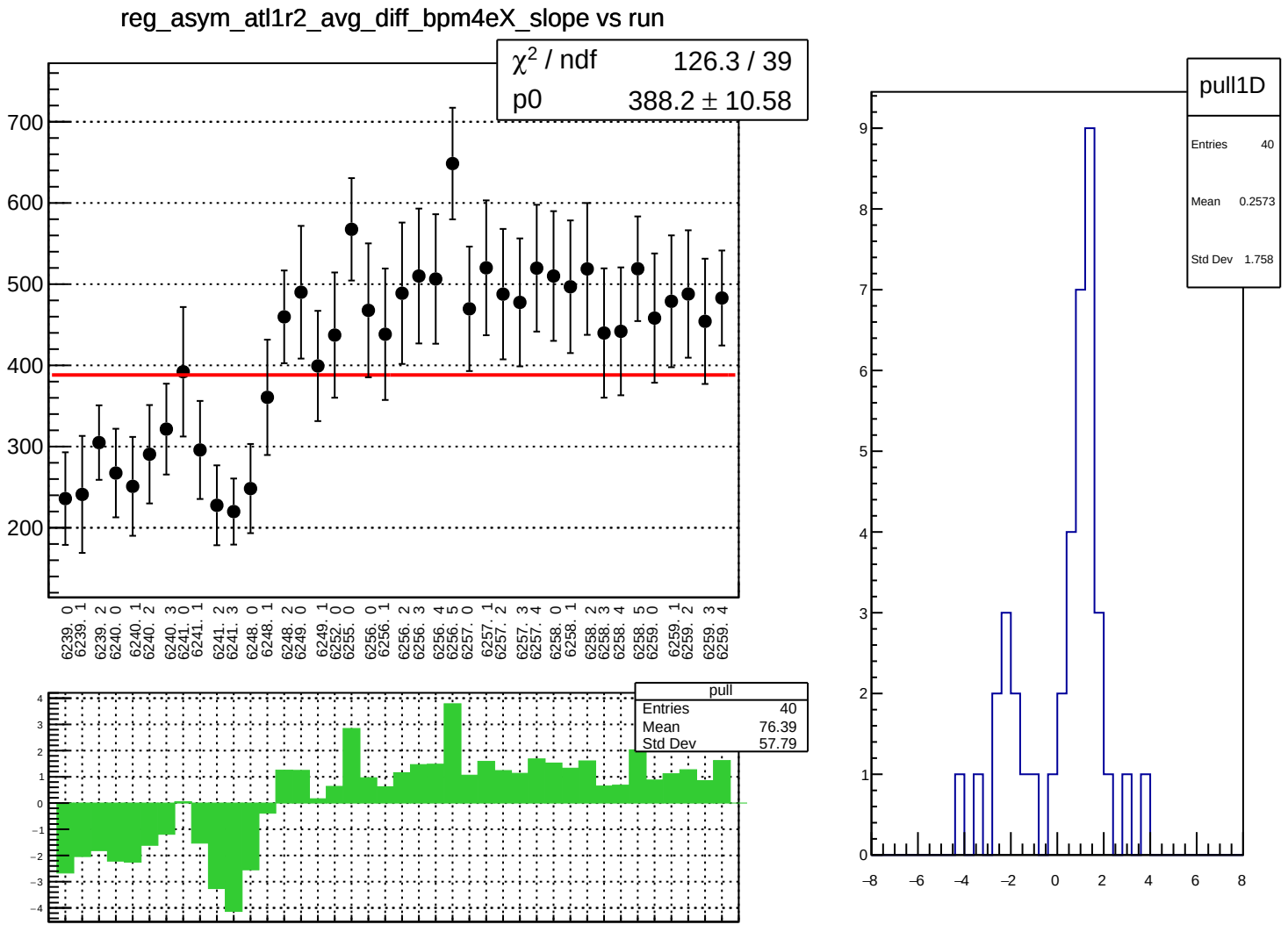

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.42 / 39
p0 −29.09 ± 0.2406
pull
Entries 40
Mean 314.8
Std Dev 294.5

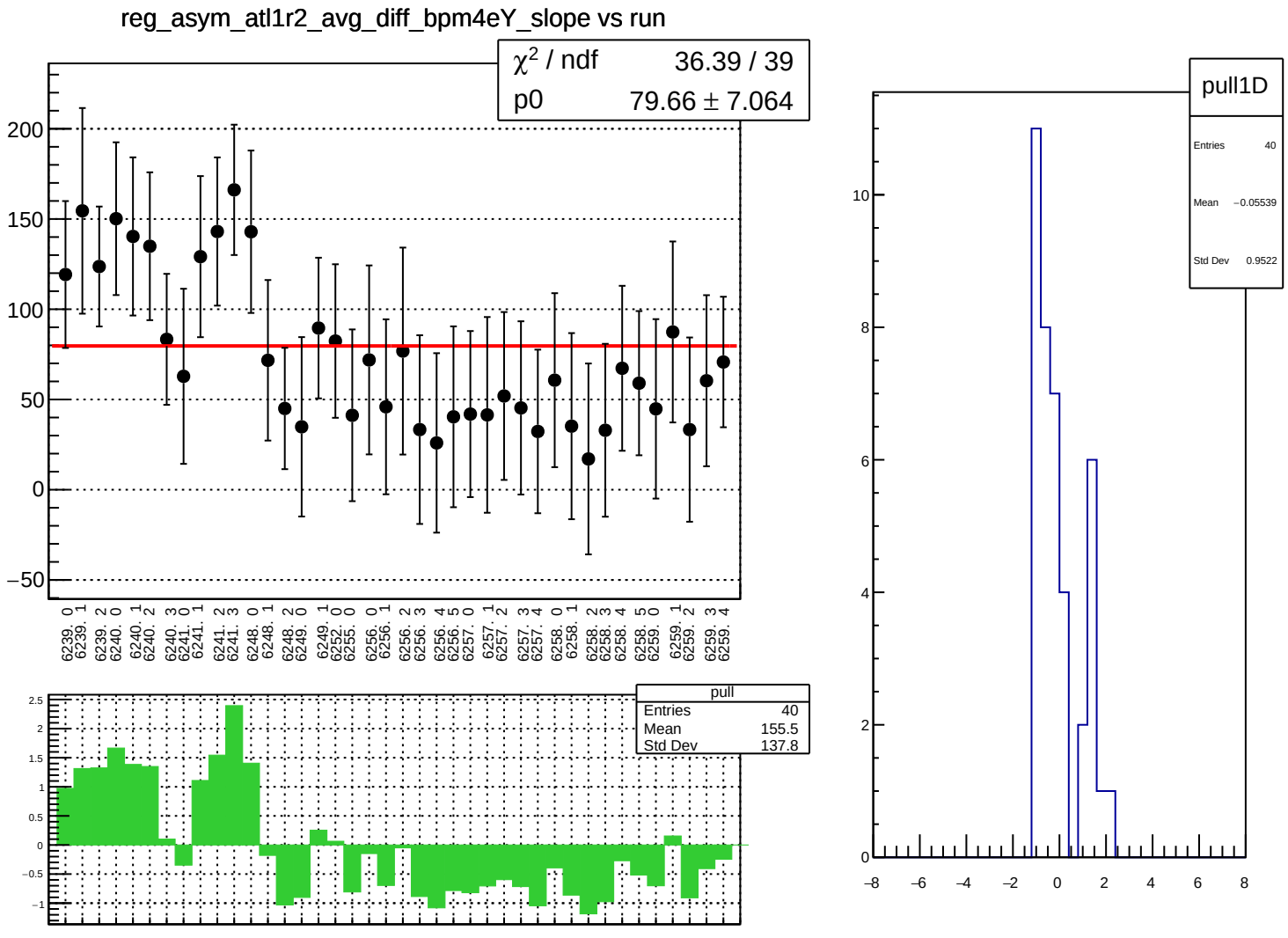

pull1D
Entries 40
Mean −0.01644
Std Dev 0.765

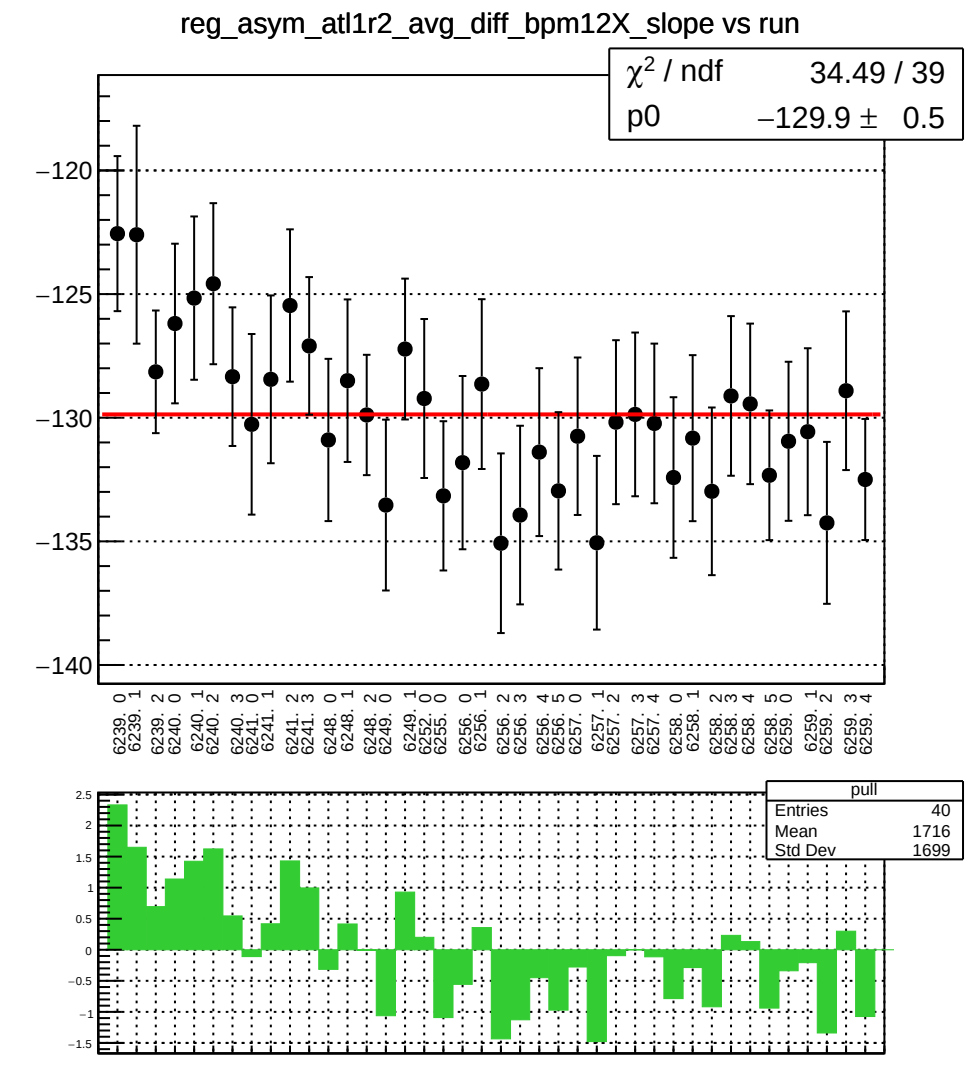

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 115.6 / 39
p0 −243.4 ± 9.141
−100
−200
−300
−400
−500
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 79.33
Std Dev 60.73
4
3
2
1
0
−1
−2
−3

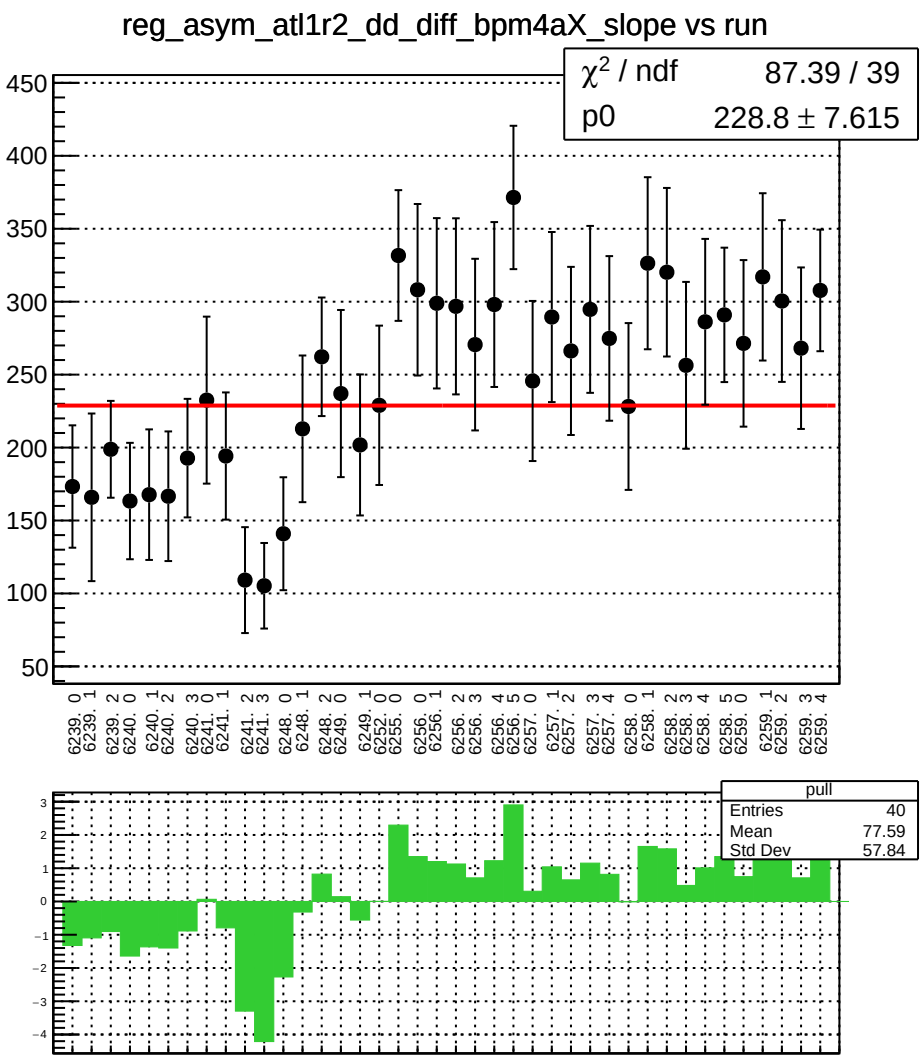

pull1D
Entries 40
Mean −0.2357
Std Dev 1.684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

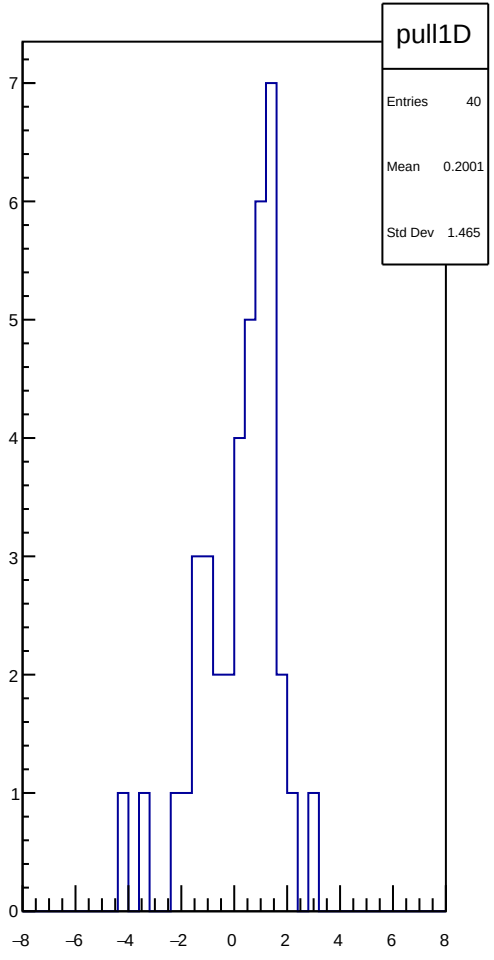

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.1 / 39
p0 −13.52 ± 6.451
100
50
0
−50
−100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 161.9
Std Dev 144.3
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.04735
Std Dev 0.8804
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

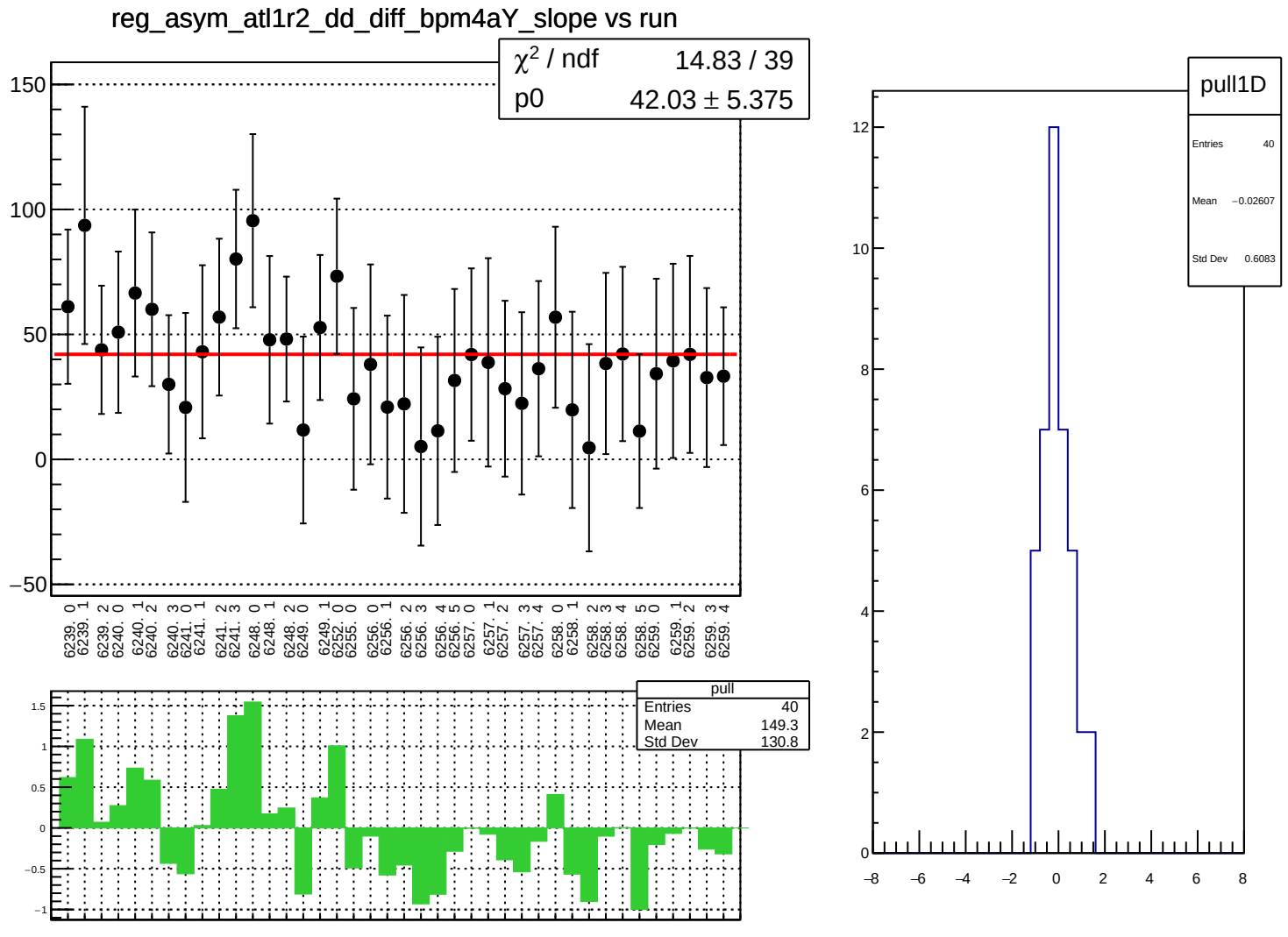

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 126.3 / 39
p0 388.2 ± 10.58
700
600
500
400
300
200
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 76.39
Std Dev 57.79
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 40
Mean 0.2573
Std Dev 1.758
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

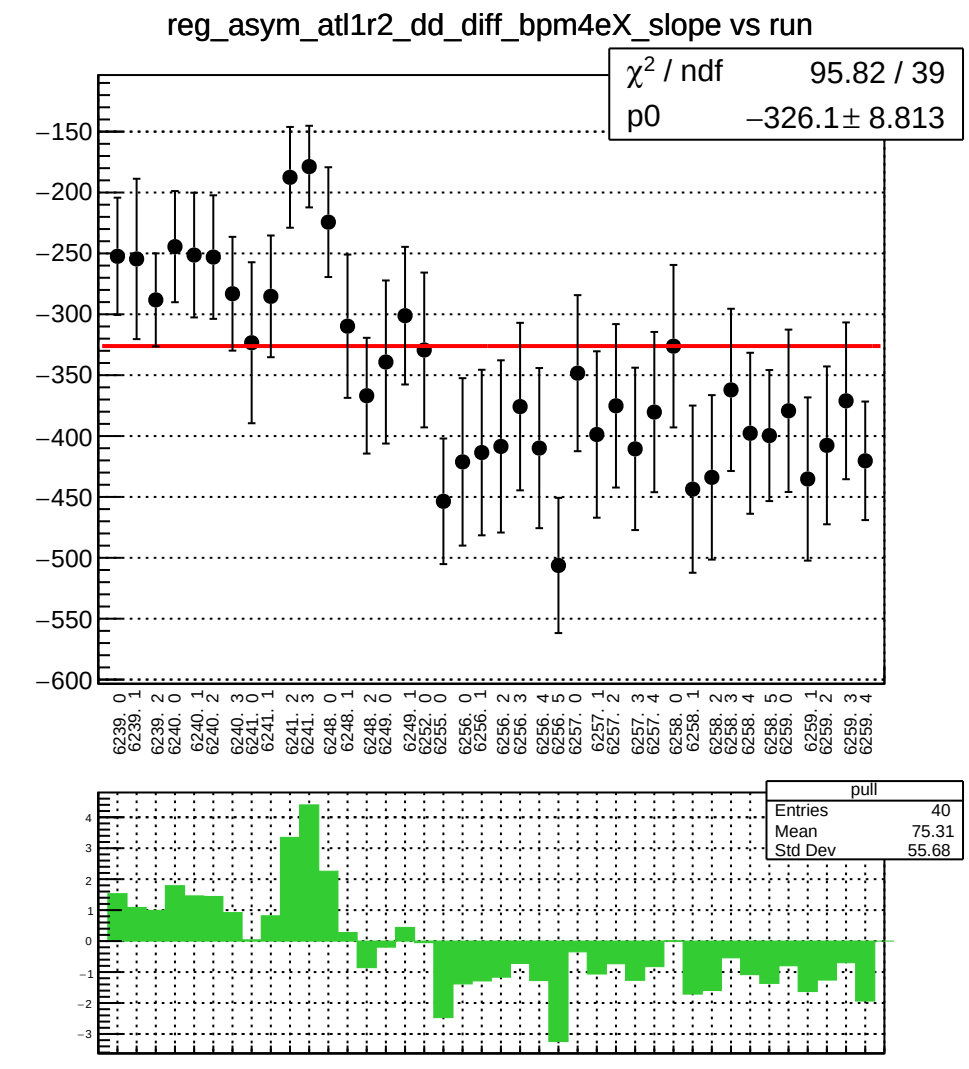

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.39 / 39
p0 79.66 ± 7.064
200
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 155.5
Std Dev 137.8
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean −0.05539
Std Dev 0.9522
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

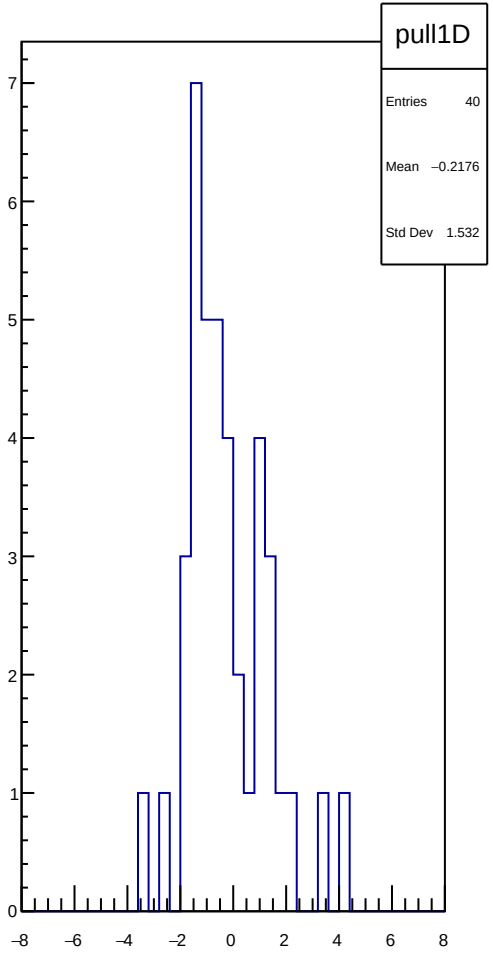

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 34.49 / 39
p0 −129.9 ± 0.5
−120
−125
−130
−135
−140
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 1716
Std Dev 1699
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.004117
Std Dev 0.9286
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

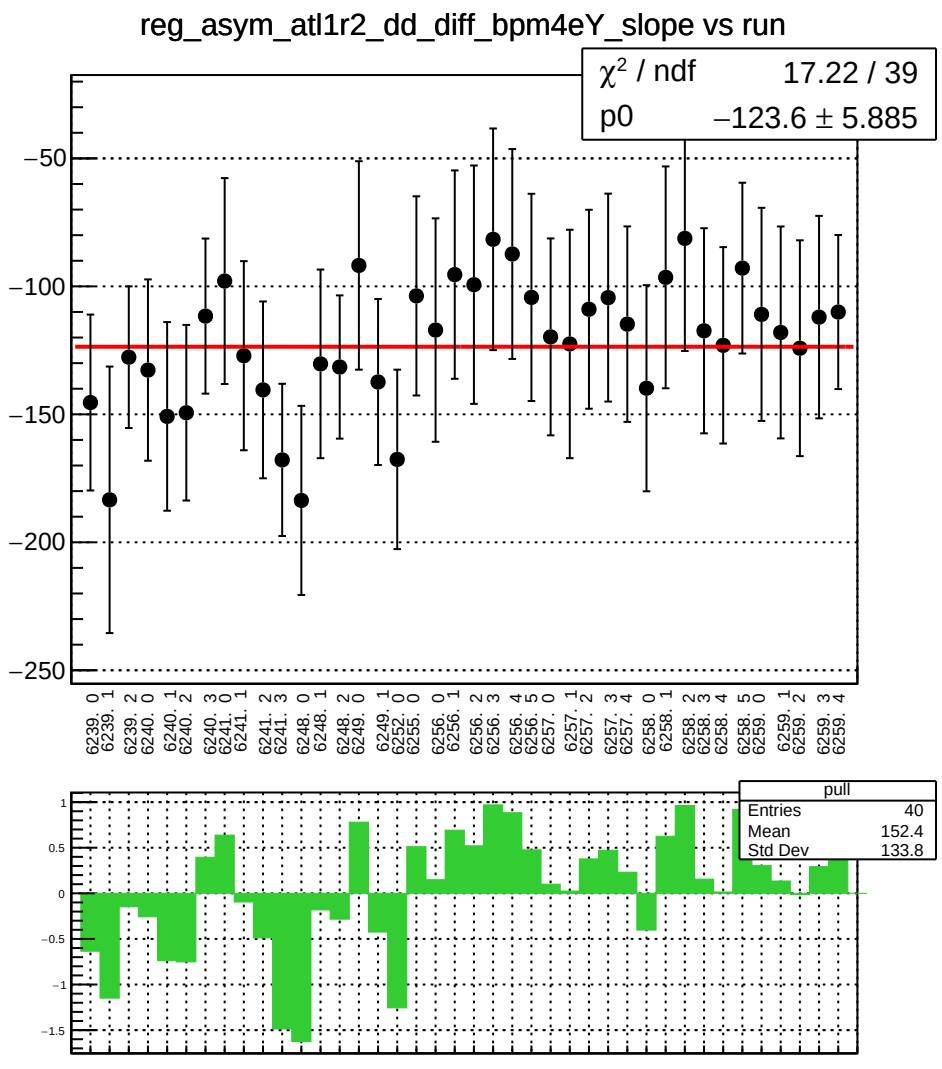

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 87.39 / 39
p0 228.8 ± 7.615
pull
Entries 40
Mean 77.59
Std Dev 57.84

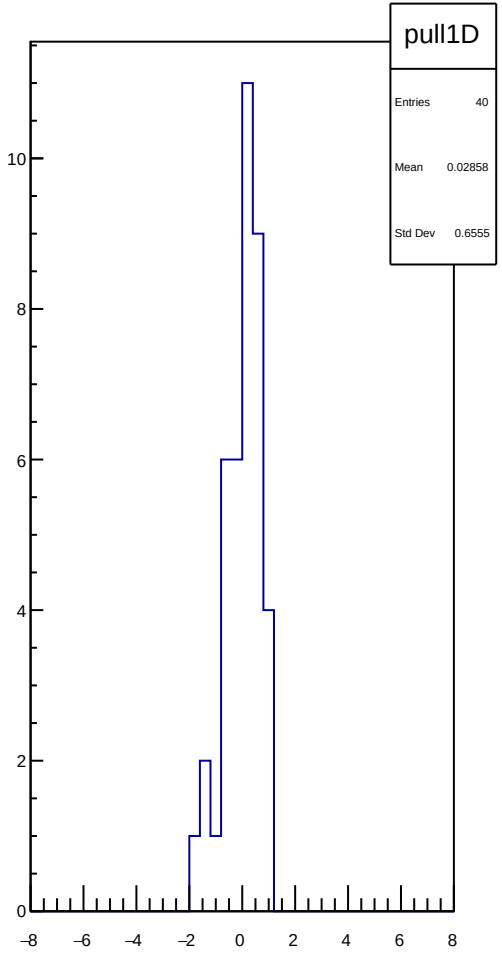

pull1D
Entries 40
Mean 0.2001
Std Dev 1.465

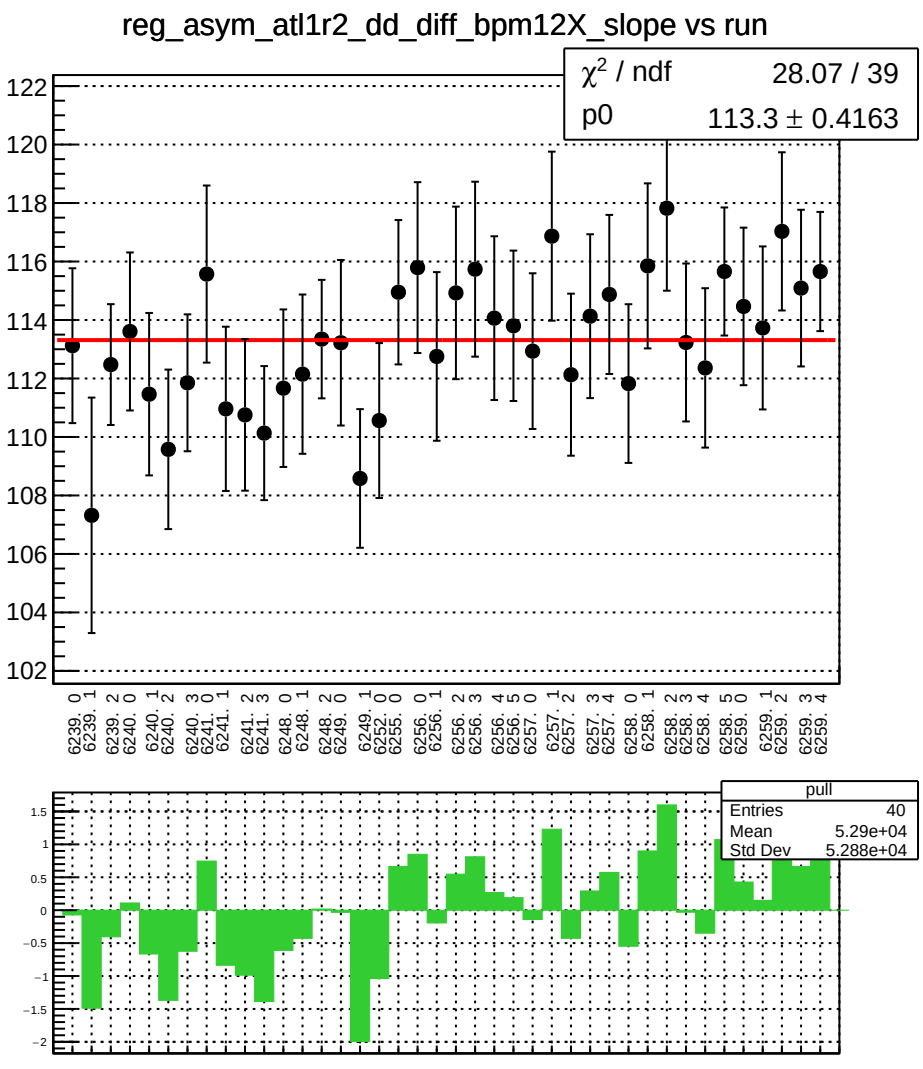

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.83 / 39
p0 42.03 ± 5.375
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 149.3
Std Dev 130.8
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean −0.02607
Std Dev 0.6083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

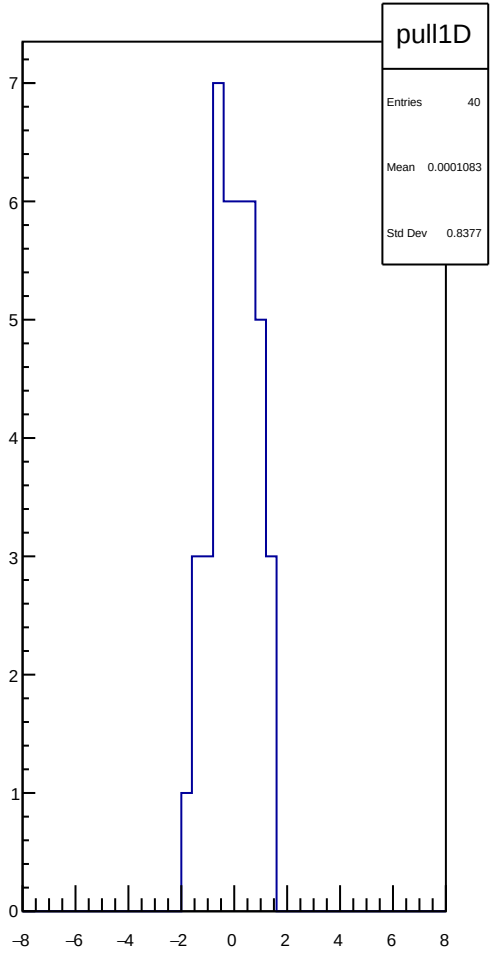

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.82 / 39
p0 −326.1 ± 8.813
−150
−200
−250
−300
−350
−400
−450
−500
−550
−600
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 75.31
Std Dev 55.68
4
3
2
1
0
−1
−2
−3

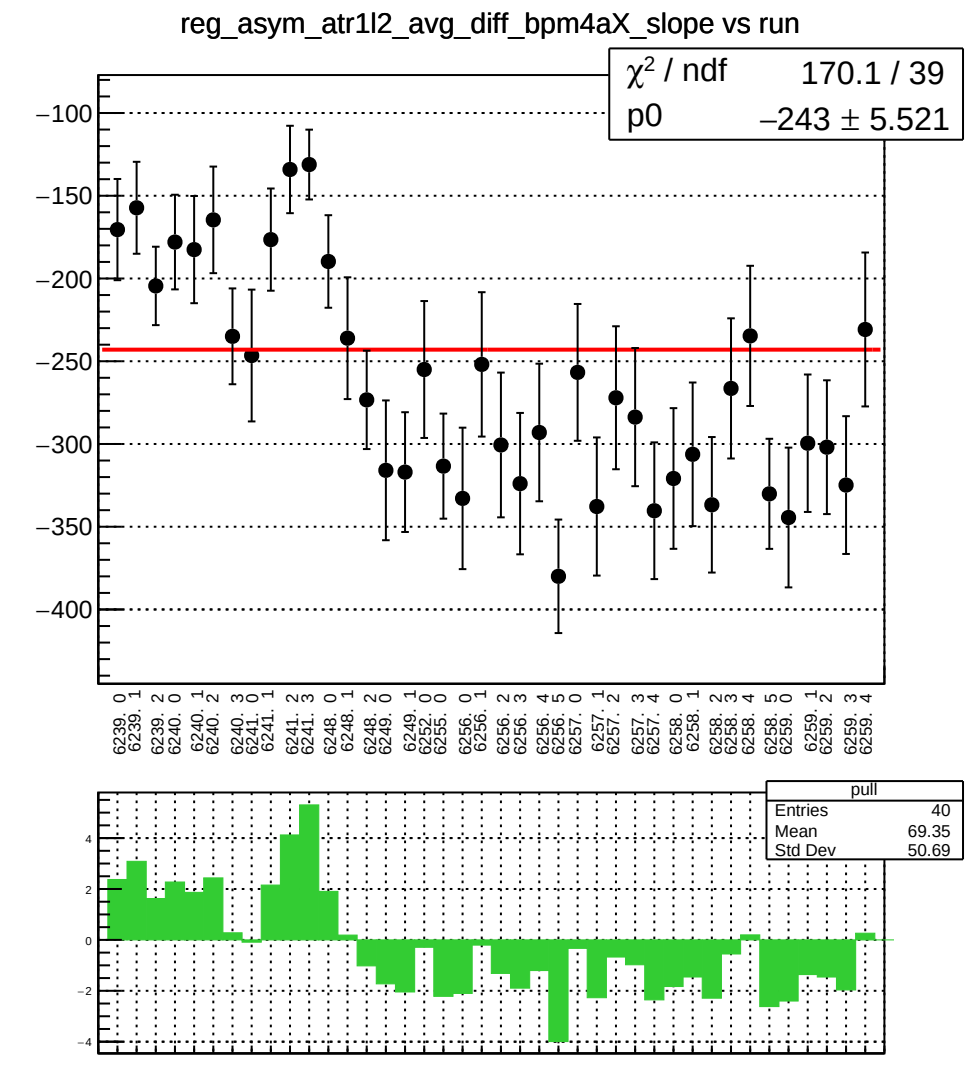

pull1D
Entries 40
Mean −0.2176
Std Dev 1.532
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

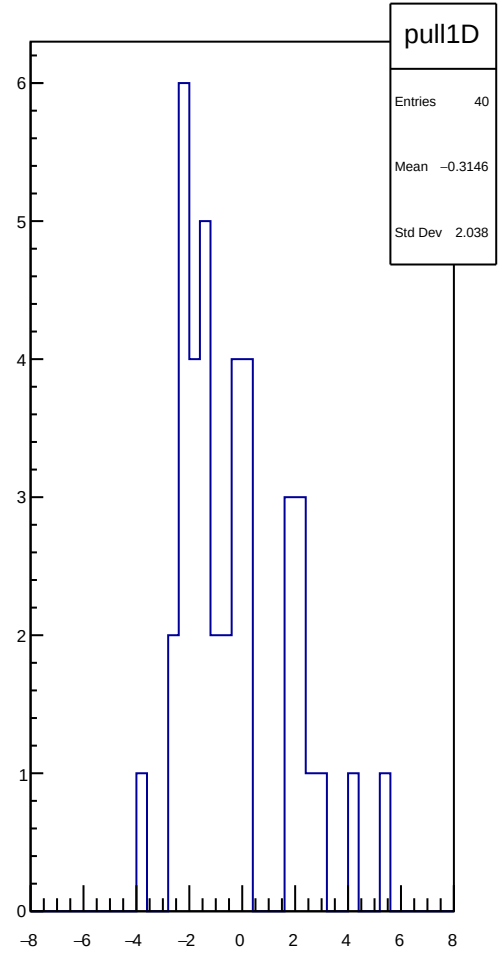

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.22 / 39
p0 −123.6 ± 5.885
−50
−100
−150
−200
−250
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 152.4
Std Dev 133.8
1
0.5
0
−0.5
−1
−1.5

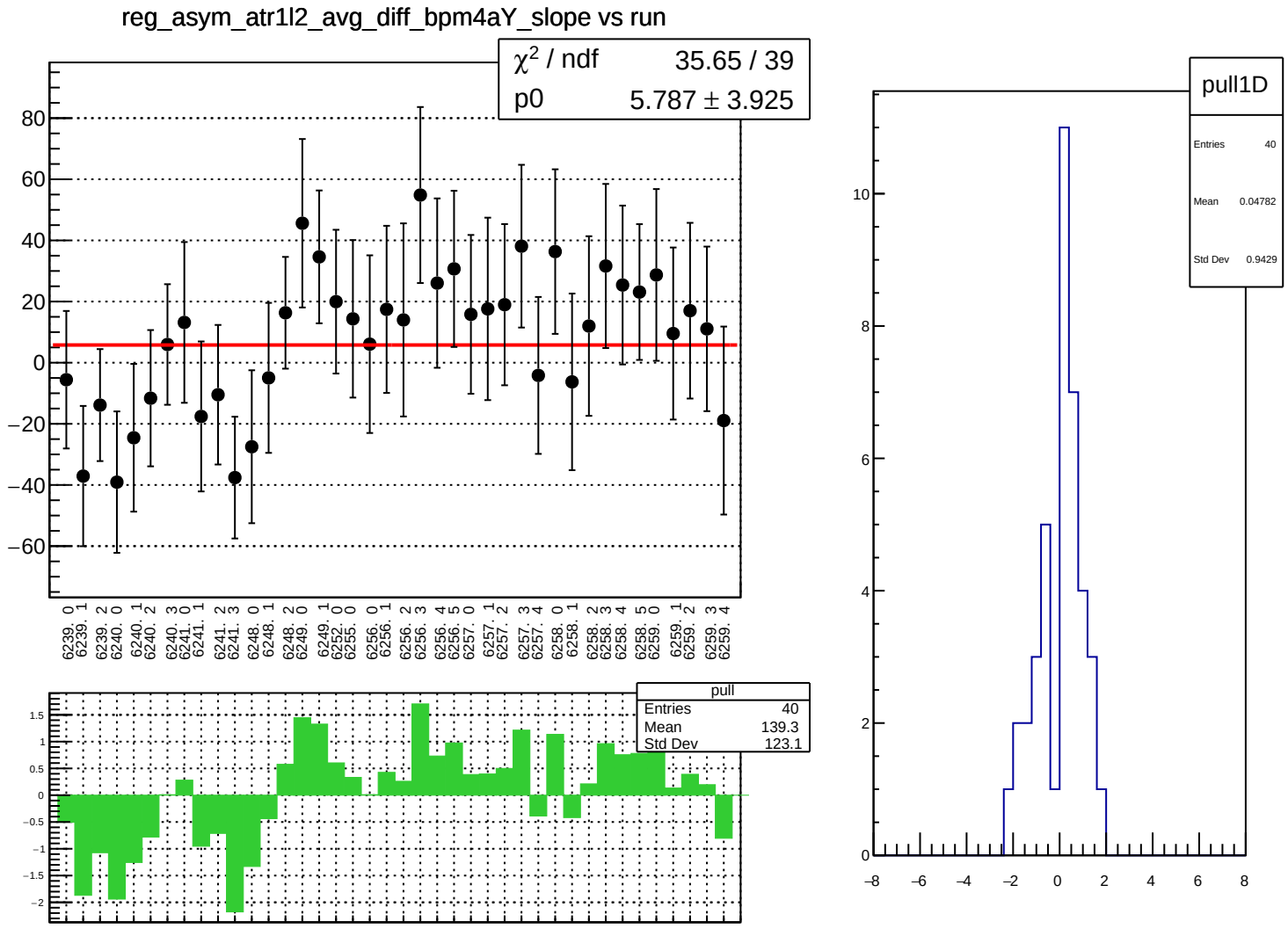

pull1D
Entries 40
Mean 0.02858
Std Dev 0.6555
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

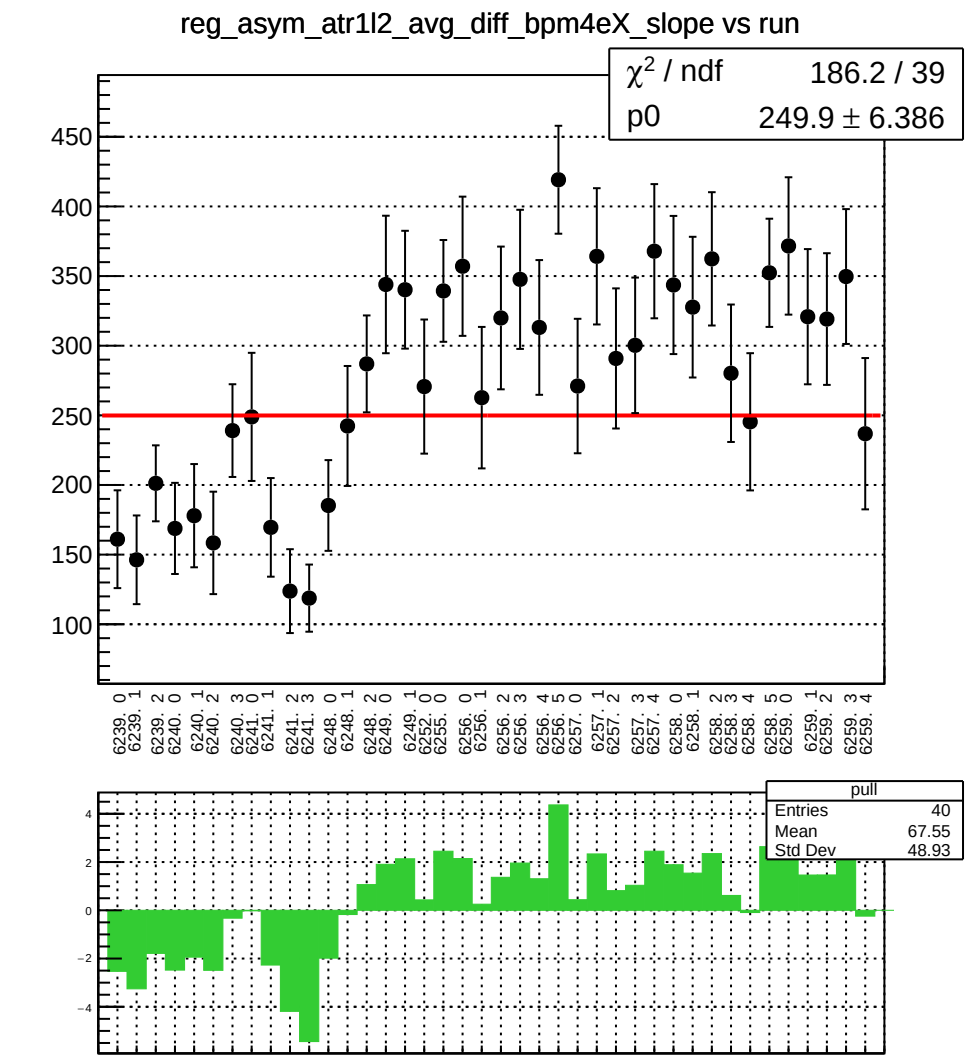

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 28.07 / 39
p0 113.3 ± 0.4163
pull
Entries 40
Mean 5.29e+04
Std Dev 5.288e+04

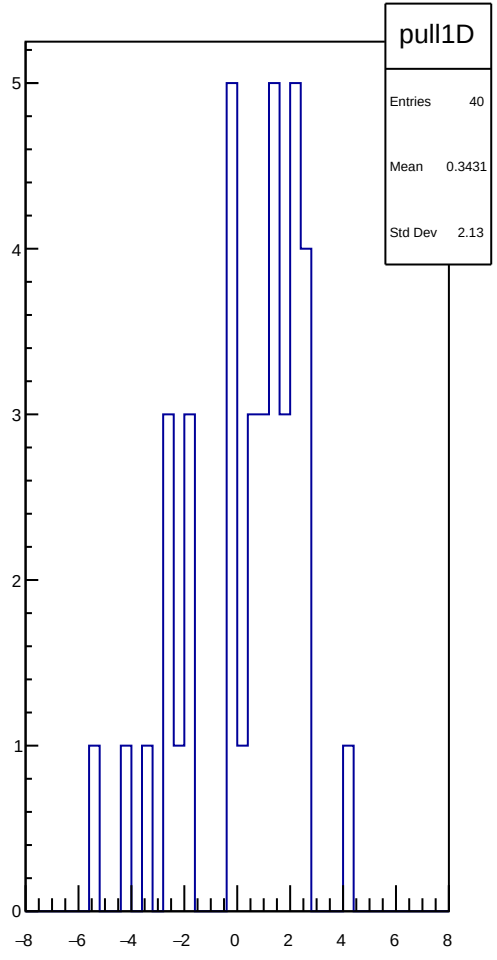

pull1D
Entries 40
Mean 0.0001083
Std Dev 0.8377

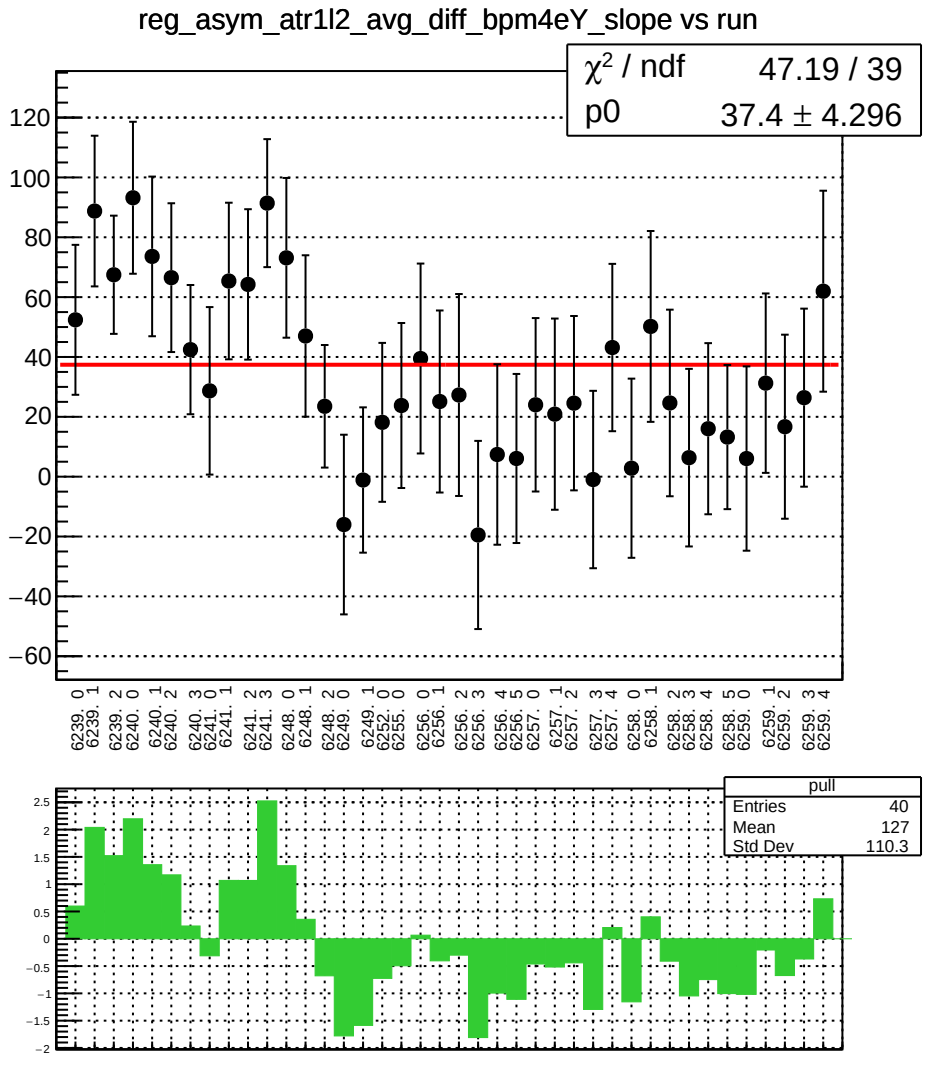

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 170.1 / 39
p0 −243 ± 5.521
−100
−150
−200
−250
−300
−350
−400
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 69.35
Std Dev 50.69
4
2
0
−2
−4

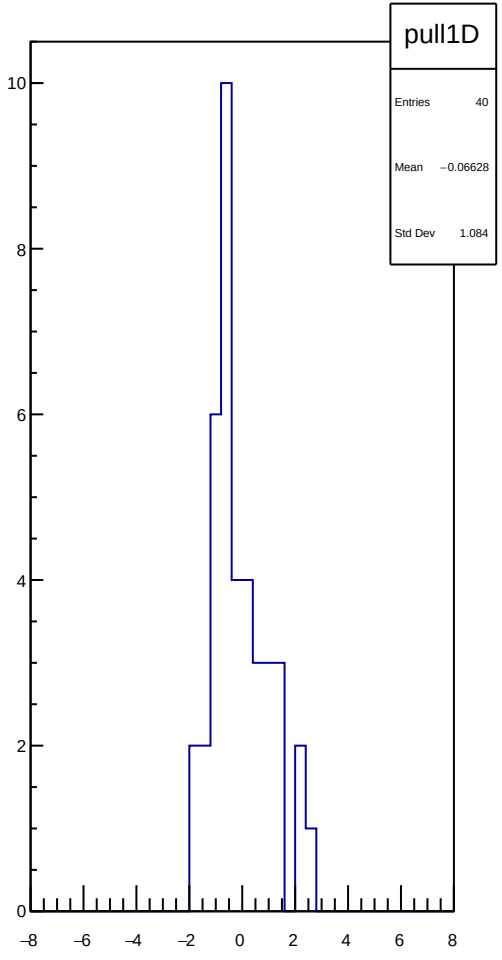

pull1D
Entries 40
Mean −0.3146
Std Dev 2.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

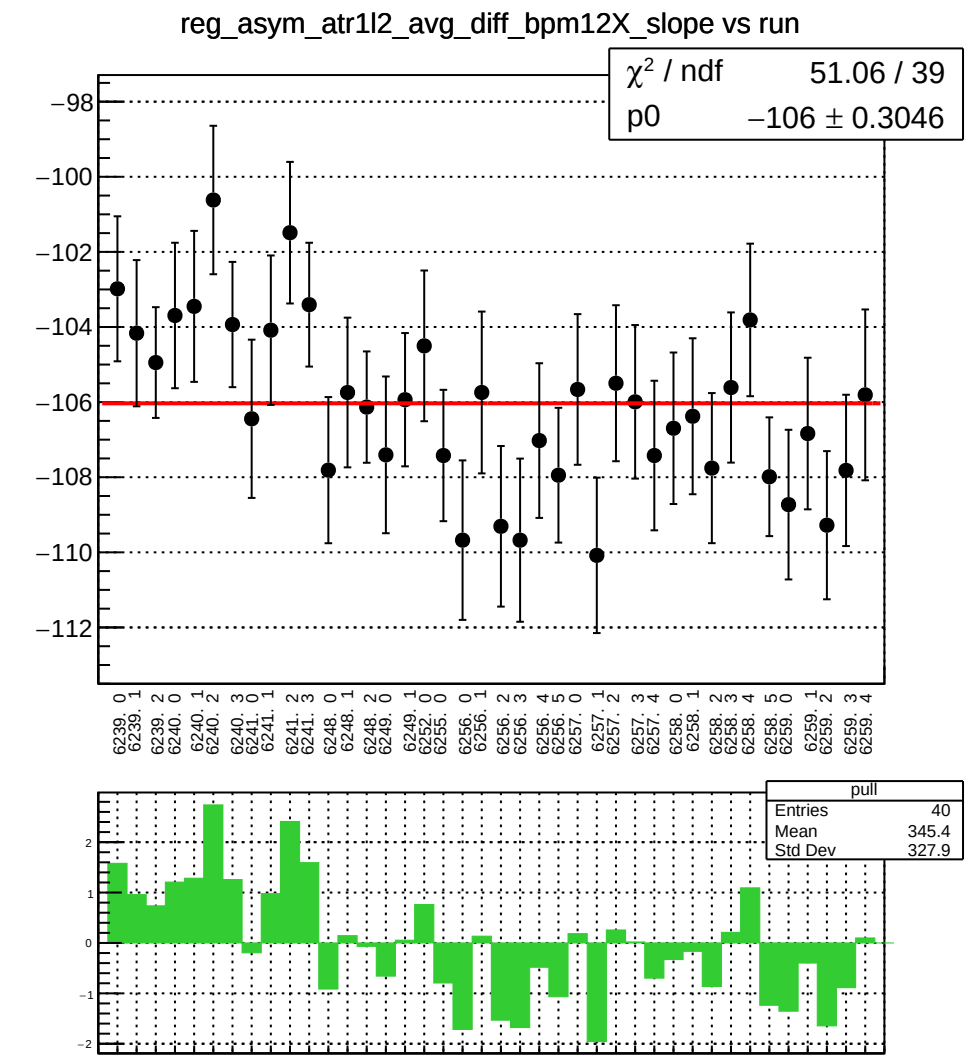

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.65 / 39
p0 5.787 ± 3.925
80
60
40
20
0
−20
−40
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 139.3
Std Dev 123.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.04782
Std Dev 0.9429
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

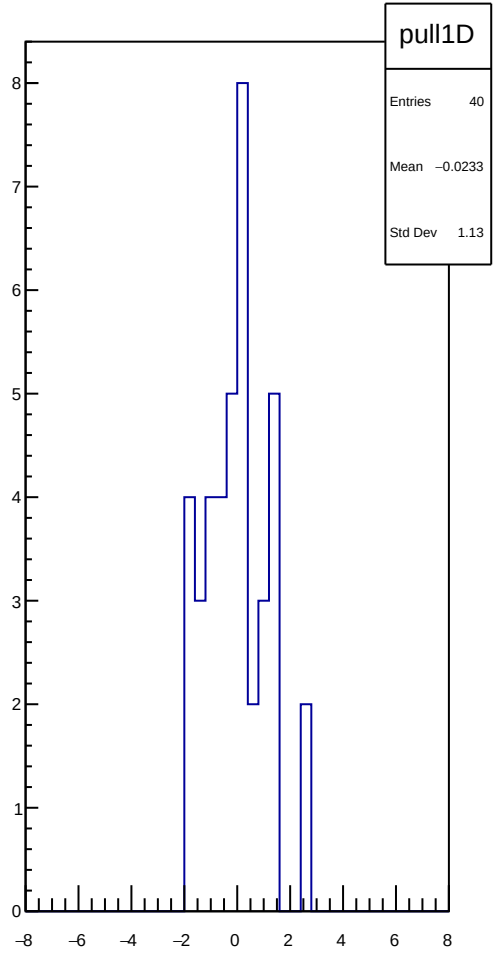

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 186.2 / 39
p0 249.9 ± 6.386
pull
Entries 40
Mean 67.55
Std Dev 48.93

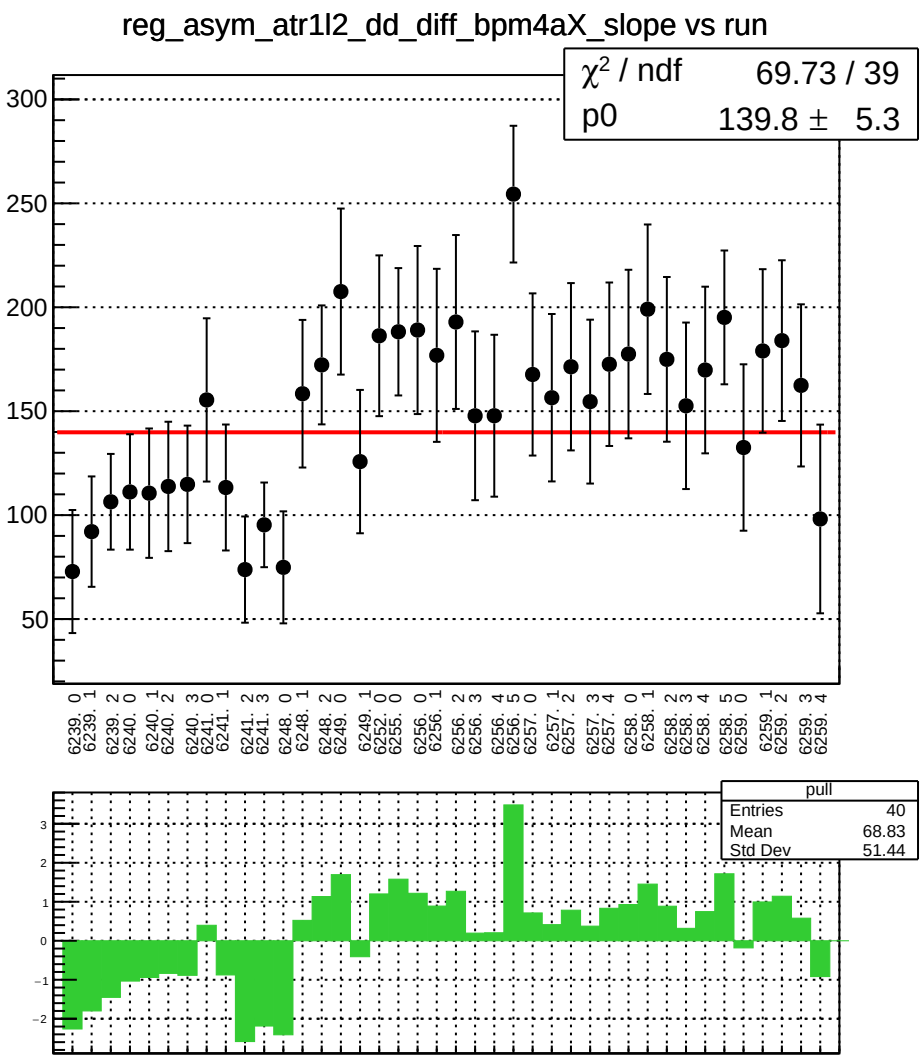

pull1D
Entries 40
Mean 0.3431
Std Dev 2.13

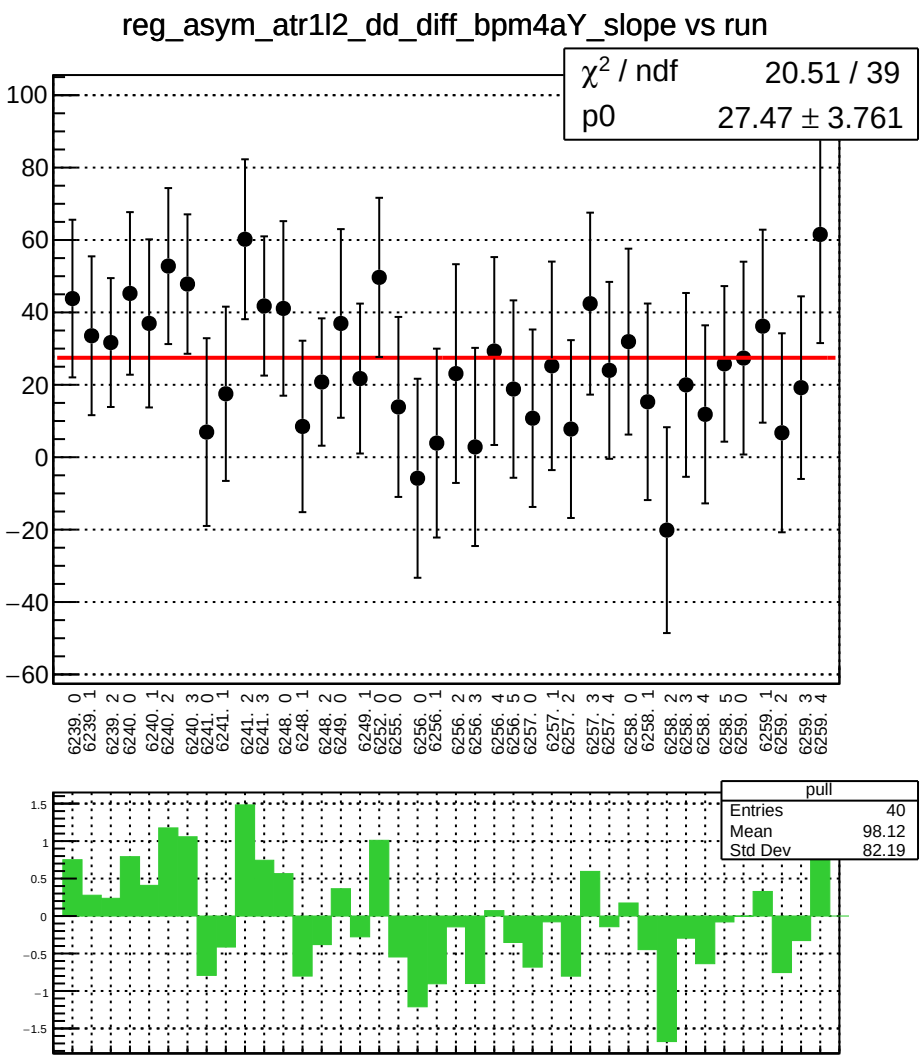

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.19 / 39
p0 37.4 ± 4.296
pull
Entries 40
Mean 127
Std Dev 110.3

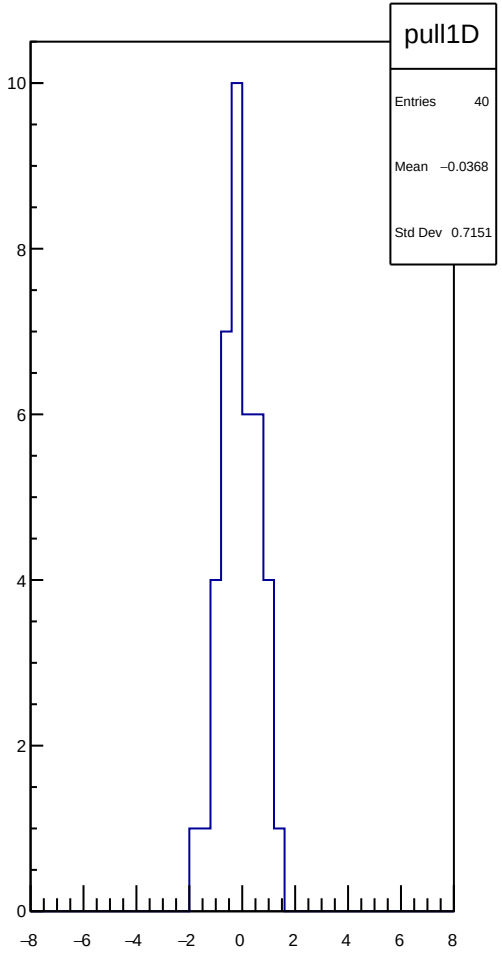

pull1D
Entries 40
Mean −0.06628
Std Dev 1.084

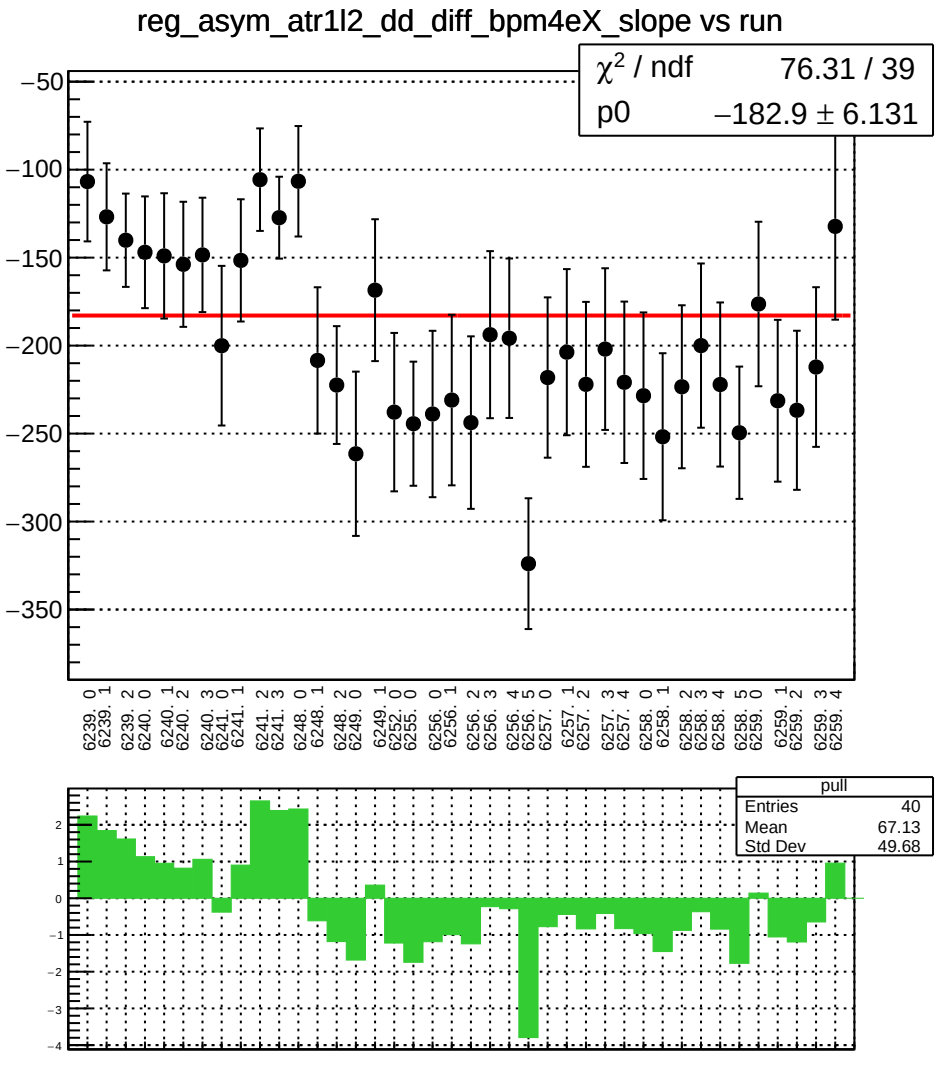

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 51.06 / 39
p0 −106 ± 0.3046
pull
Entries 40
Mean 345.4
Std Dev 327.9

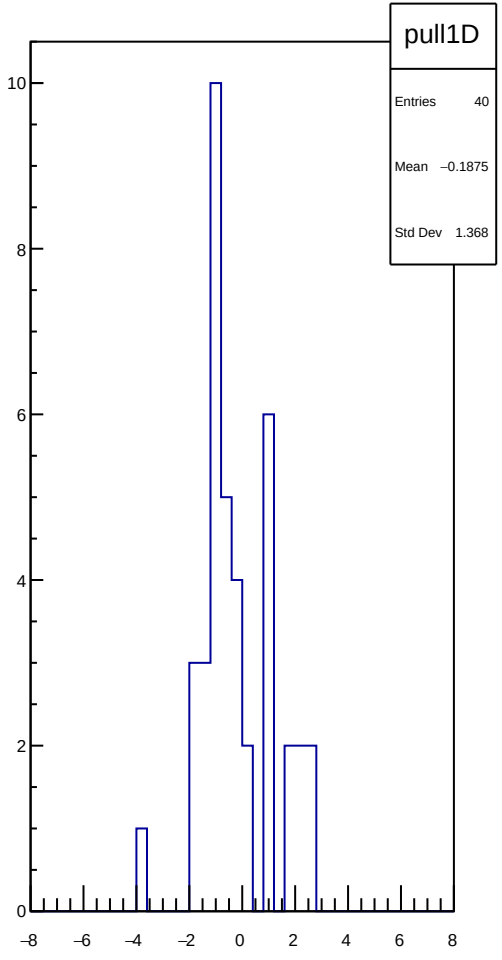

pull1D
Entries 40
Mean −0.0233
Std Dev 1.13

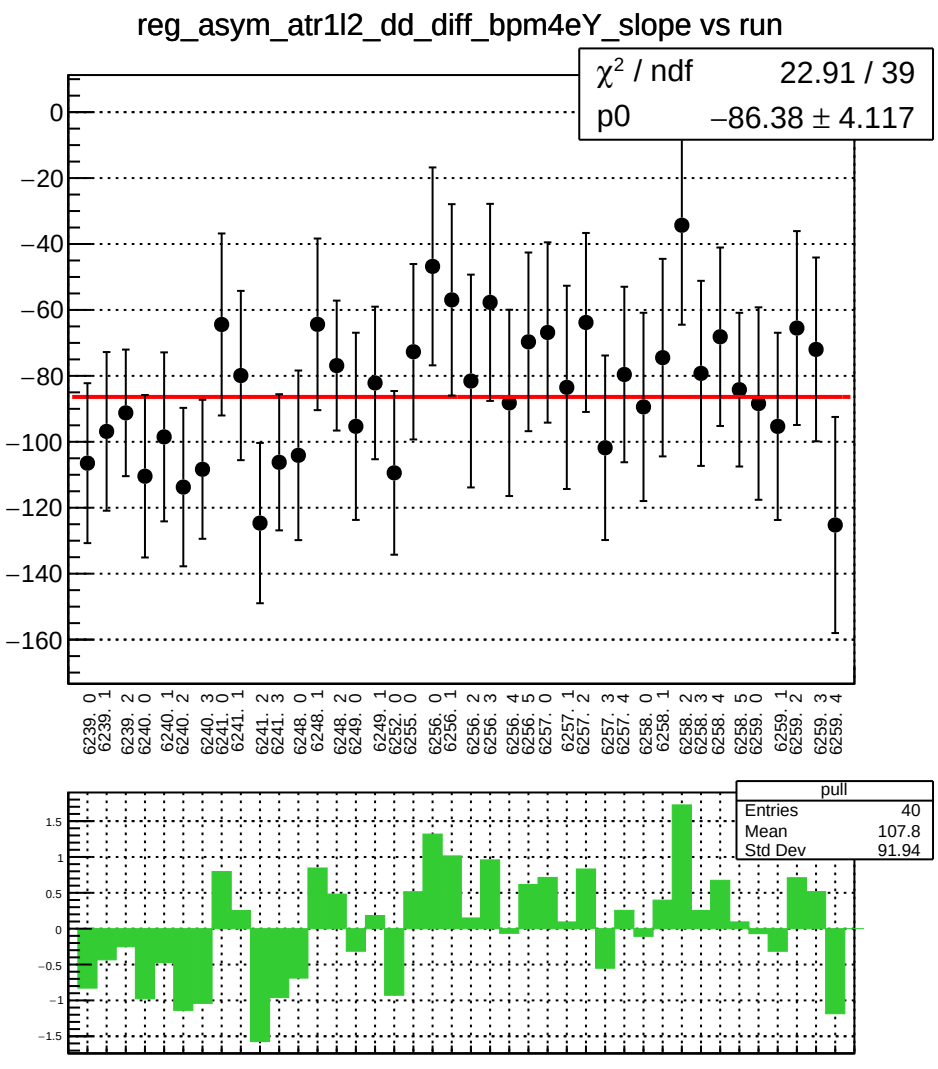

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 69.73 / 39
p0 139.8 ± 5.3
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 68.83
Std Dev 51.44
3
2
1
0
−1
−2
pull1D
Entries 40
Mean 0.1723
Std Dev 1.309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.51 / 39
p0 27.47 ± 3.761
100
80
60
40
20
0
−20
−40
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 98.12
Std Dev 82.19
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 40
Mean −0.0368
Std Dev 0.7151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.31 / 39
p0 −182.9 ± 6.131
−50
−100
−150
−200
−250
−300
−350
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 67.13
Std Dev 49.68
2
1
0
−1
−2
−3
−4


pull1D
Entries 40
Mean −0.1875
Std Dev 1.368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.91 / 39
p0 −86.38 ± 4.117
0
−20
−40
−60
−80
−100
−120
−140
−160
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
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6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
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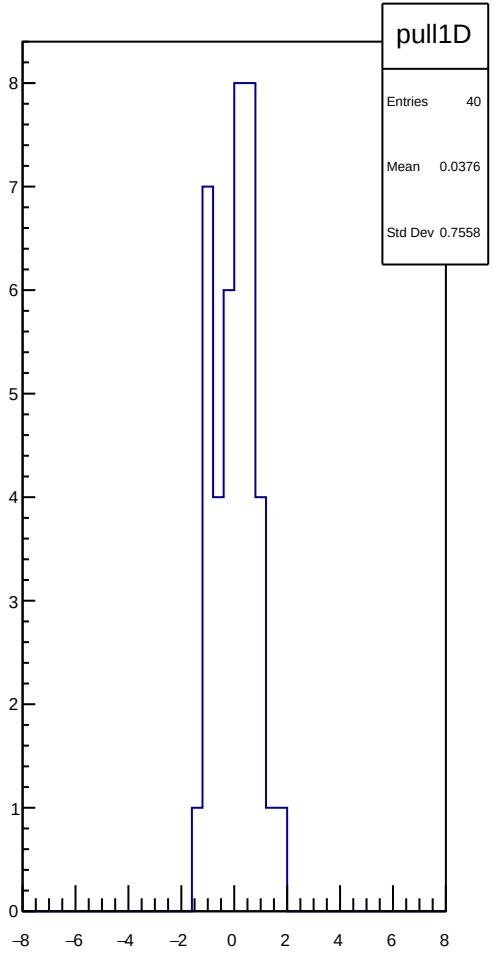
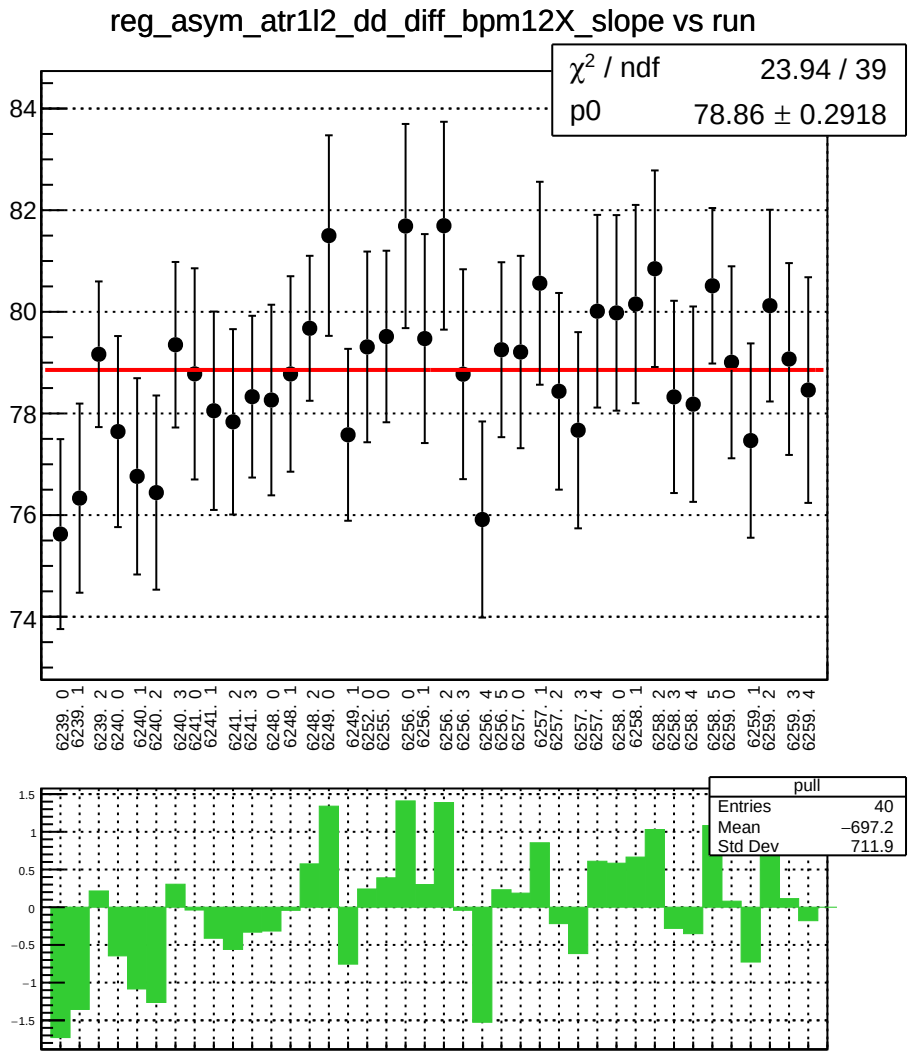
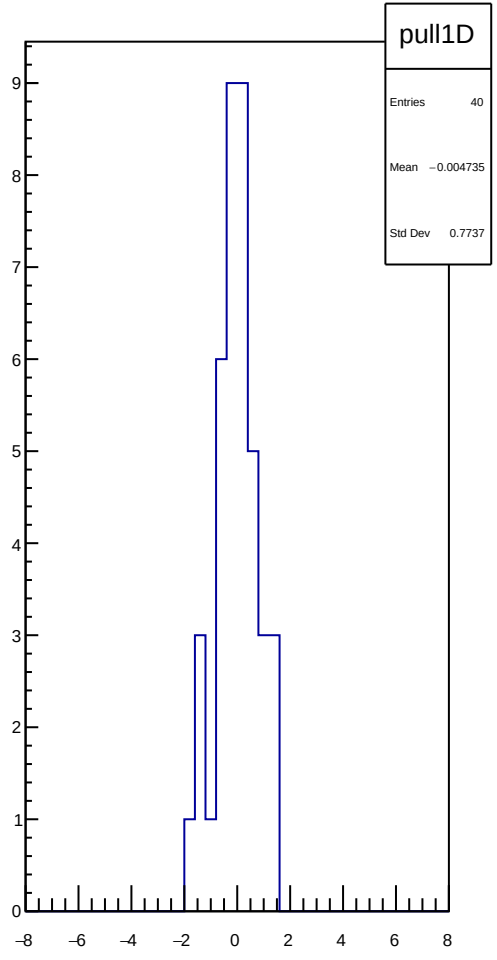
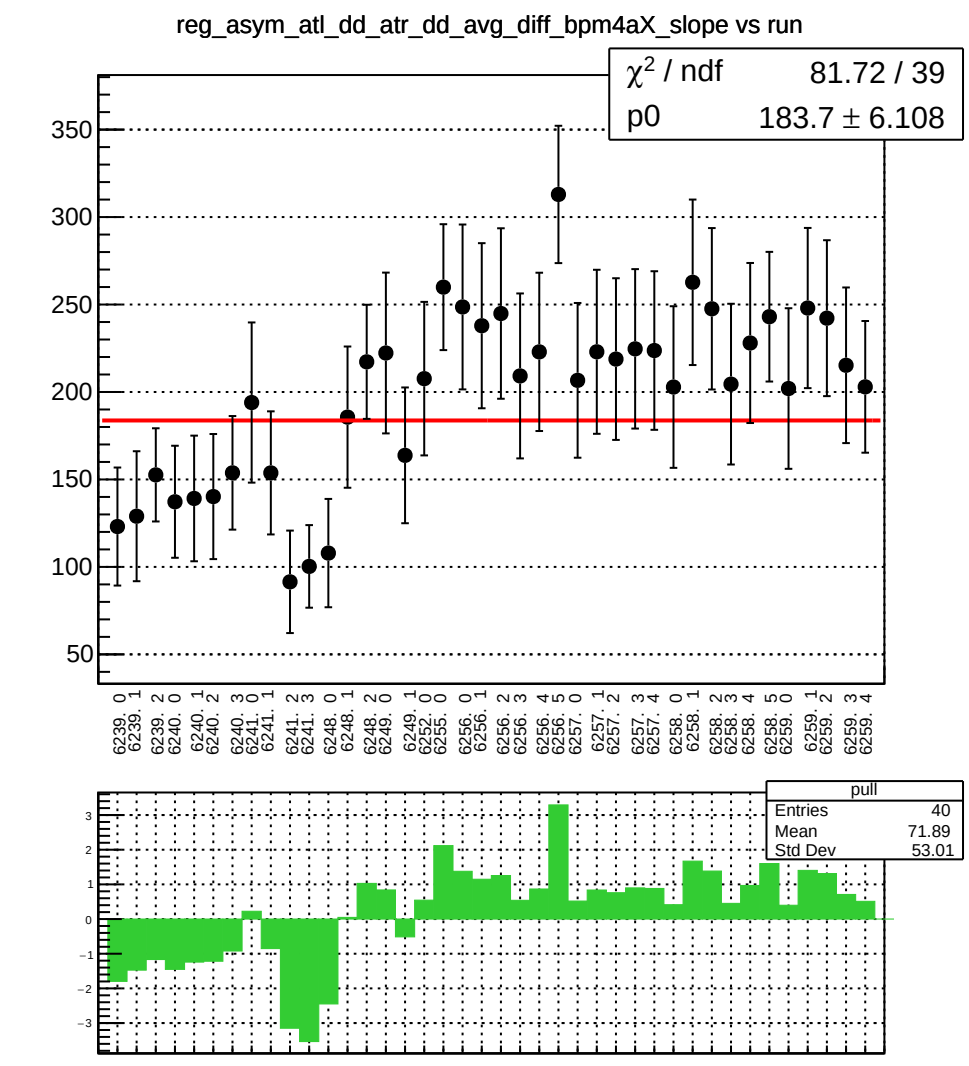
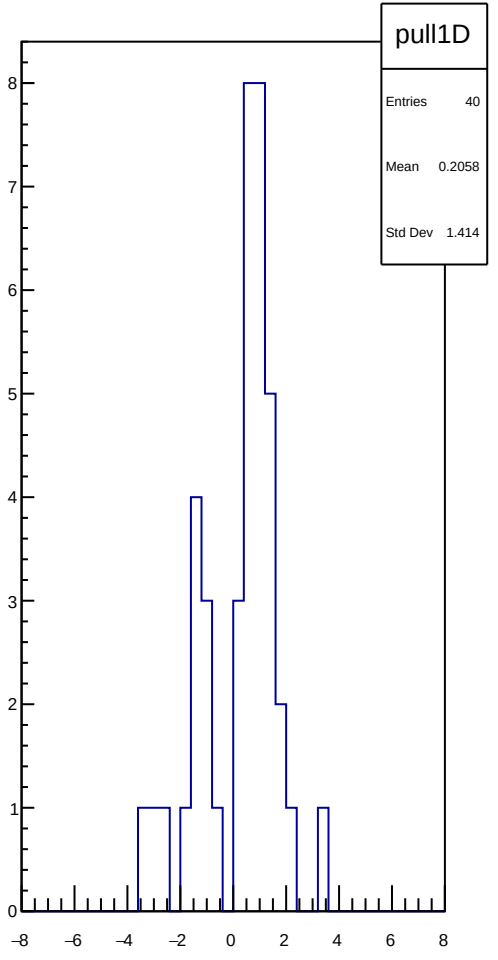
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 107.8
Std Dev 91.94
1.5
1
0.5
0
−0.5
−1
−1.5

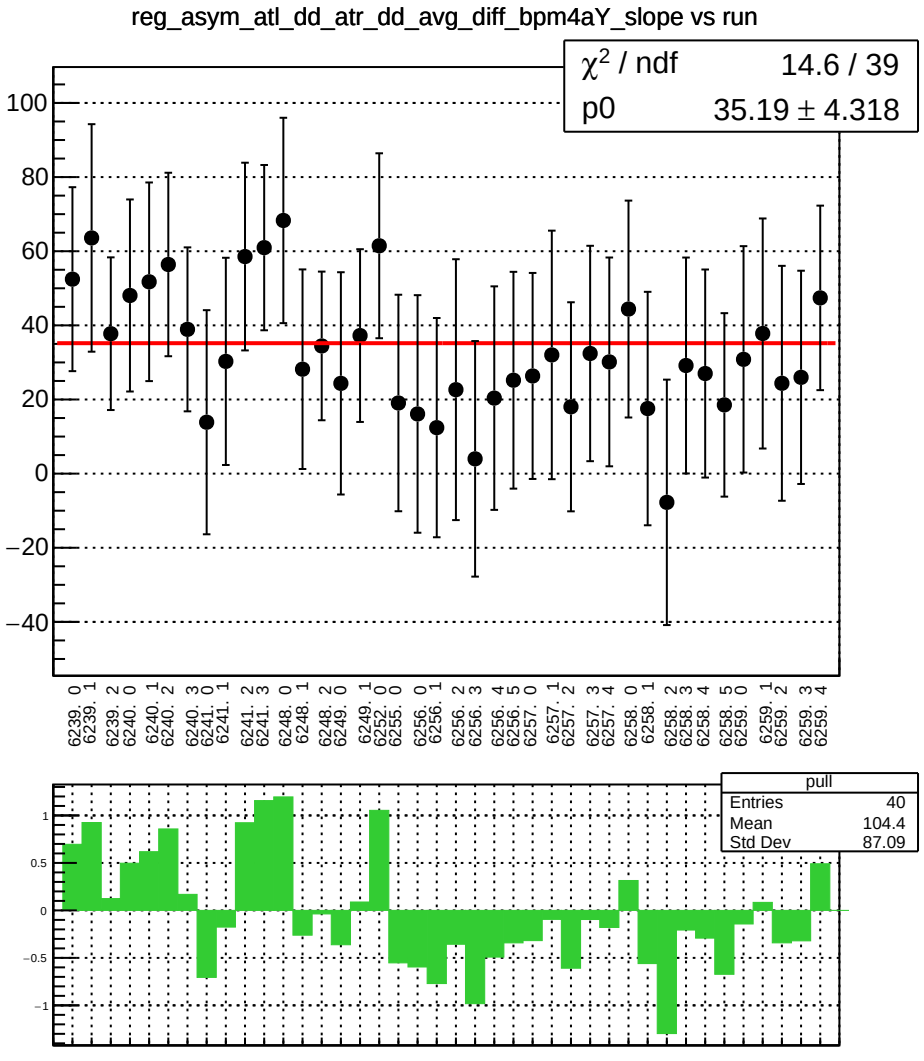

pull1D
Entries 40
Mean 0.0376
Std Dev 0.7558
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

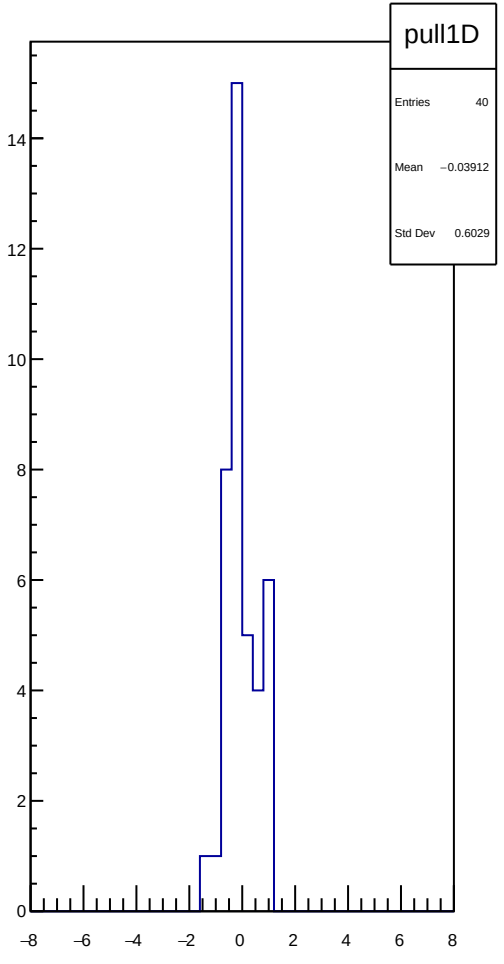

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.94 / 39
p0 78.86 ± 0.2918
pull
Entries 40
Mean −697.2
Std Dev 711.9

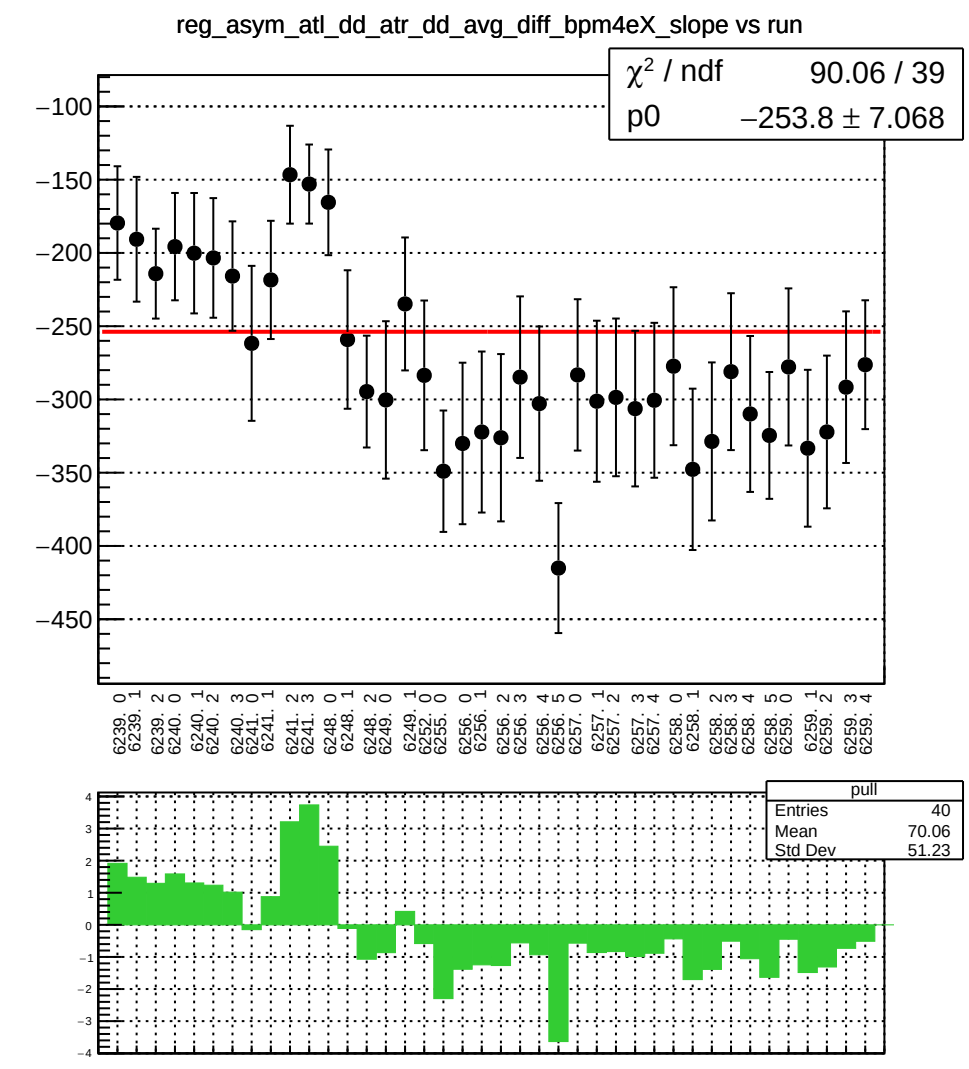

pull1D
Entries 40
Mean −0.004735
Std Dev 0.7737

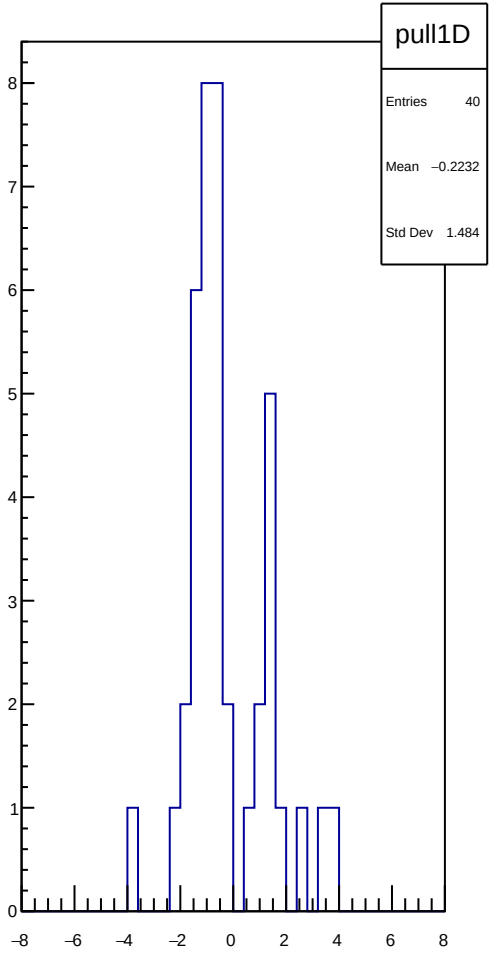

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 81.72 / 39
p0 183.7 ± 6.108
350
300
250
200
150
100
50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 71.89
Std Dev 53.01
3
2
1
0
−1
−2
−3

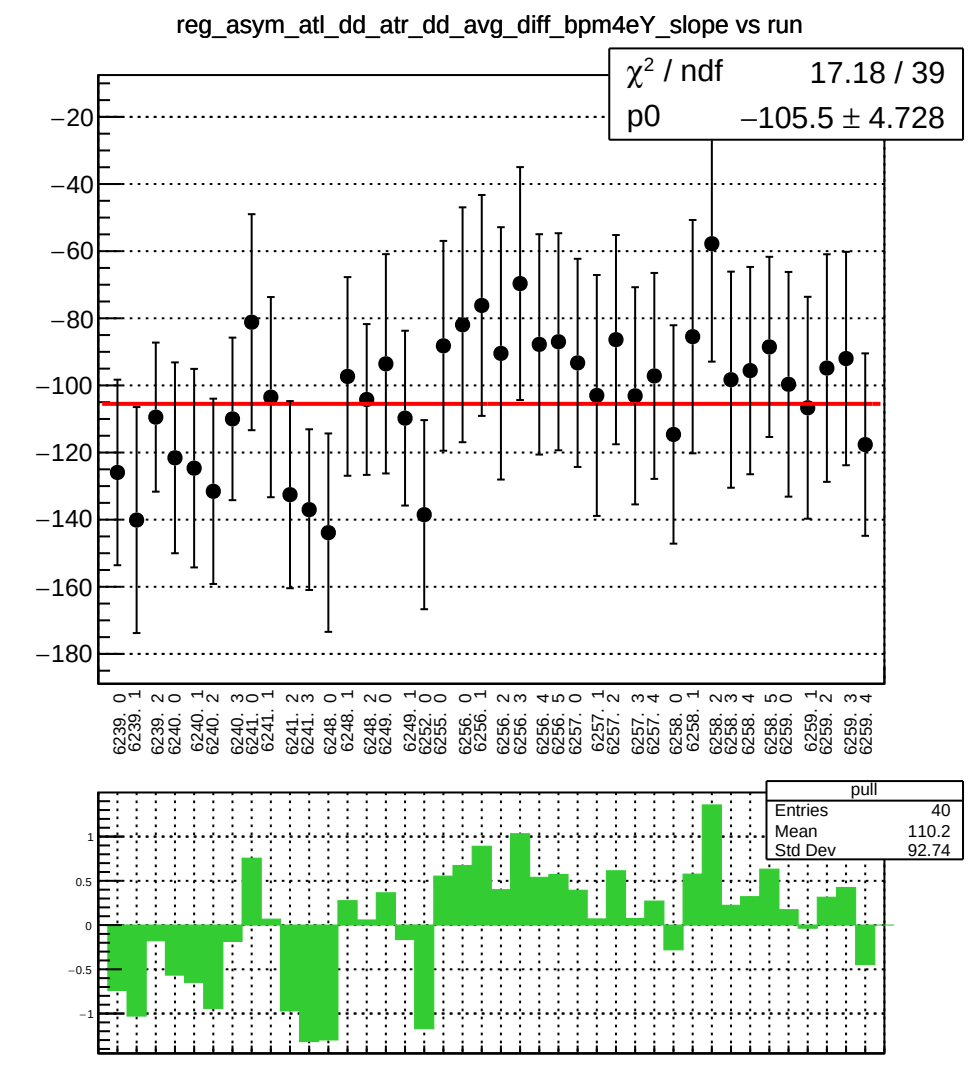

pull1D
Entries 40
Mean 0.2058
Std Dev 1.414
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

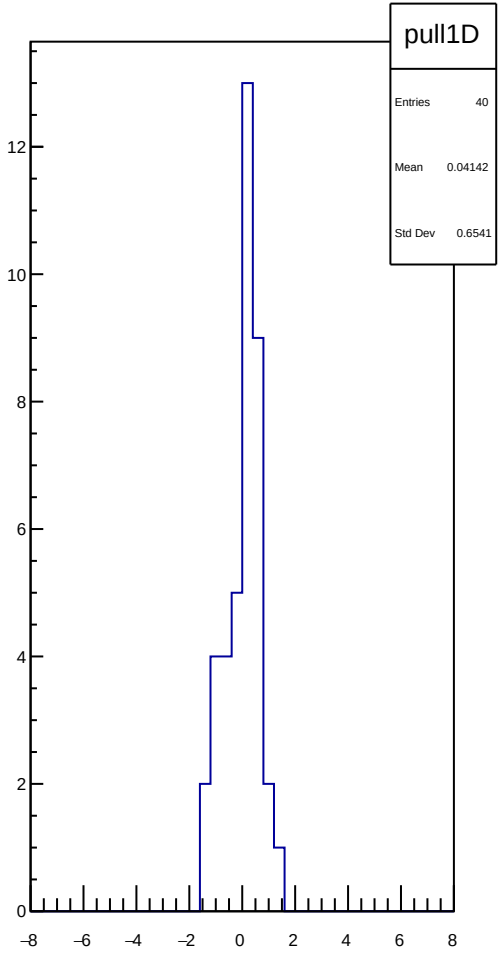

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.6 / 39
p0 35.19 ± 4.318
pull
Entries 40
Mean 104.4
Std Dev 87.09

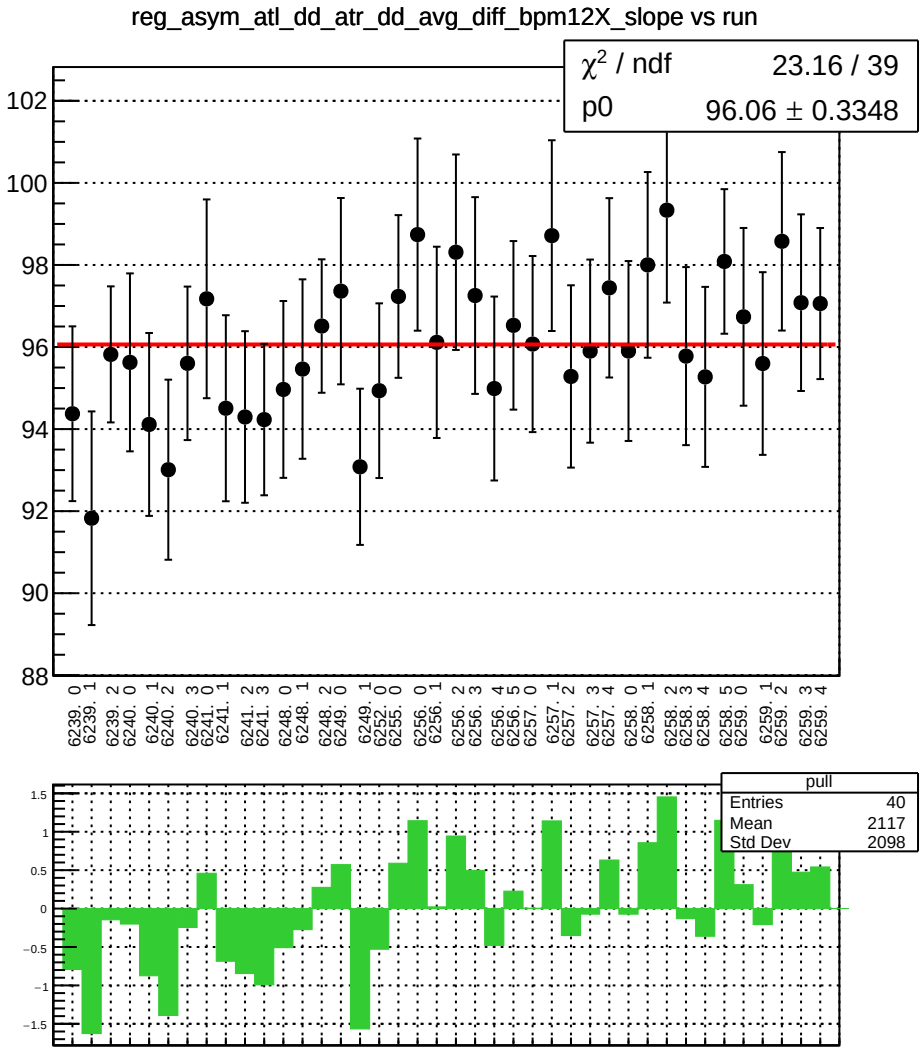

pull1D
Entries 40
Mean −0.03912
Std Dev 0.6029

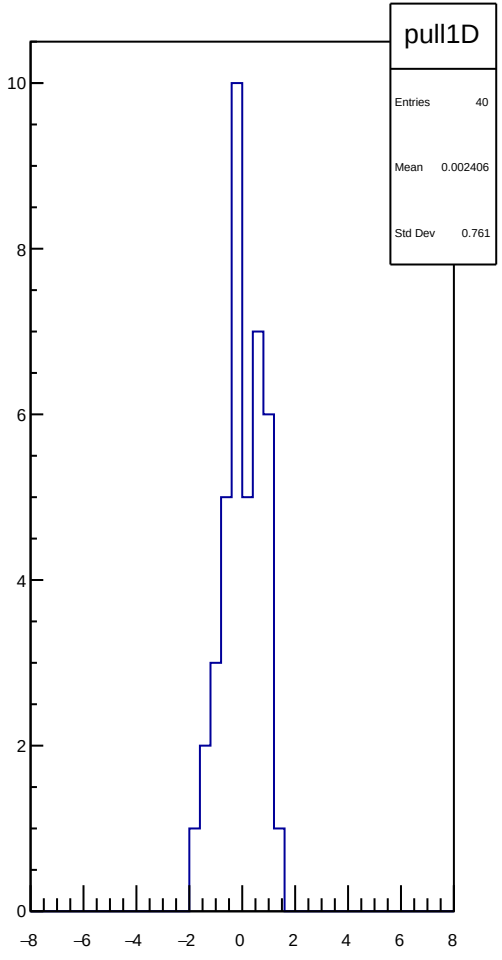

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.06 / 39
p0 −253.8 ± 7.068
pull
Entries 40
Mean 70.06
Std Dev 51.23

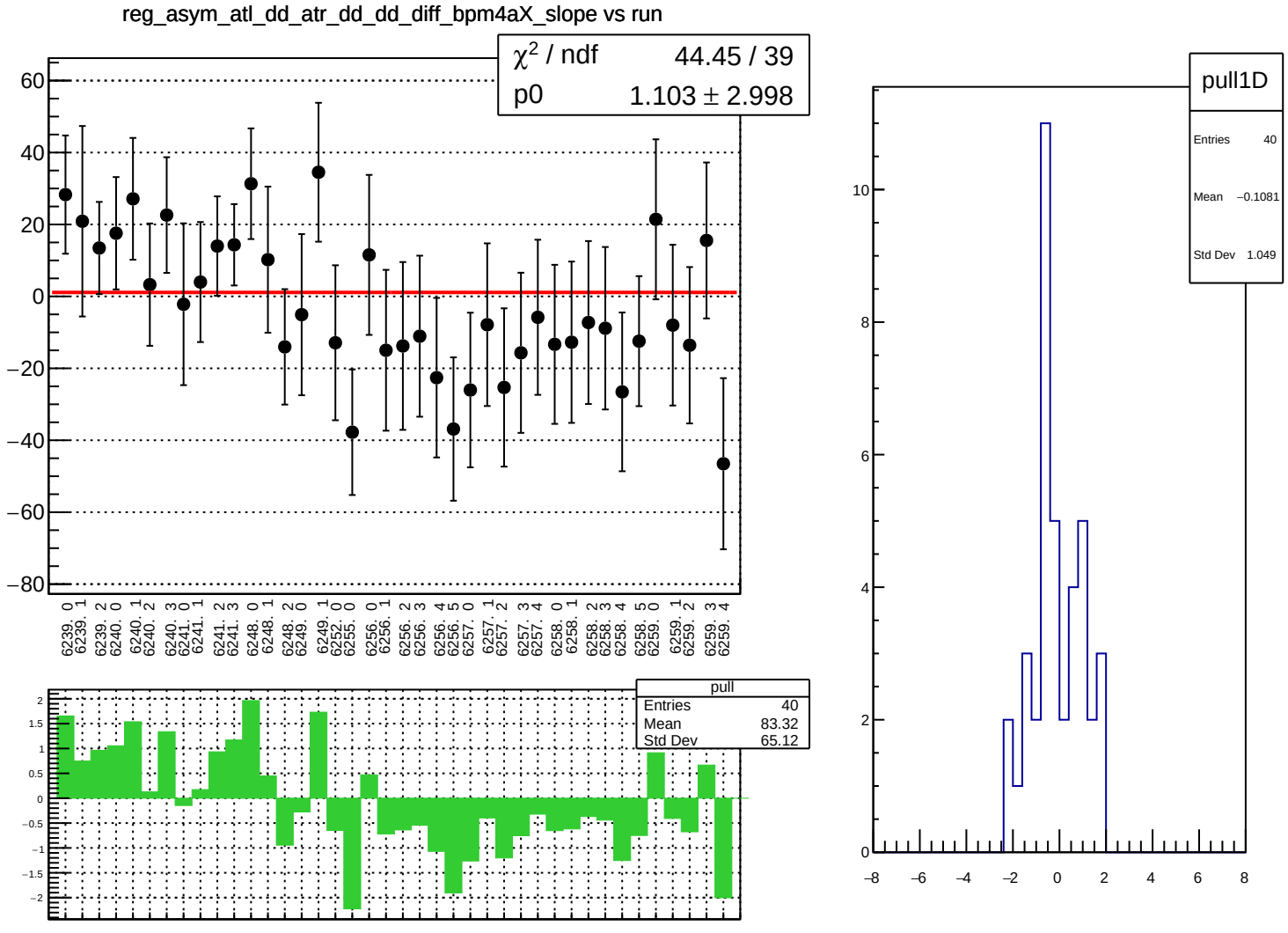

pull1D
Entries 40
Mean −0.2232
Std Dev 1.484

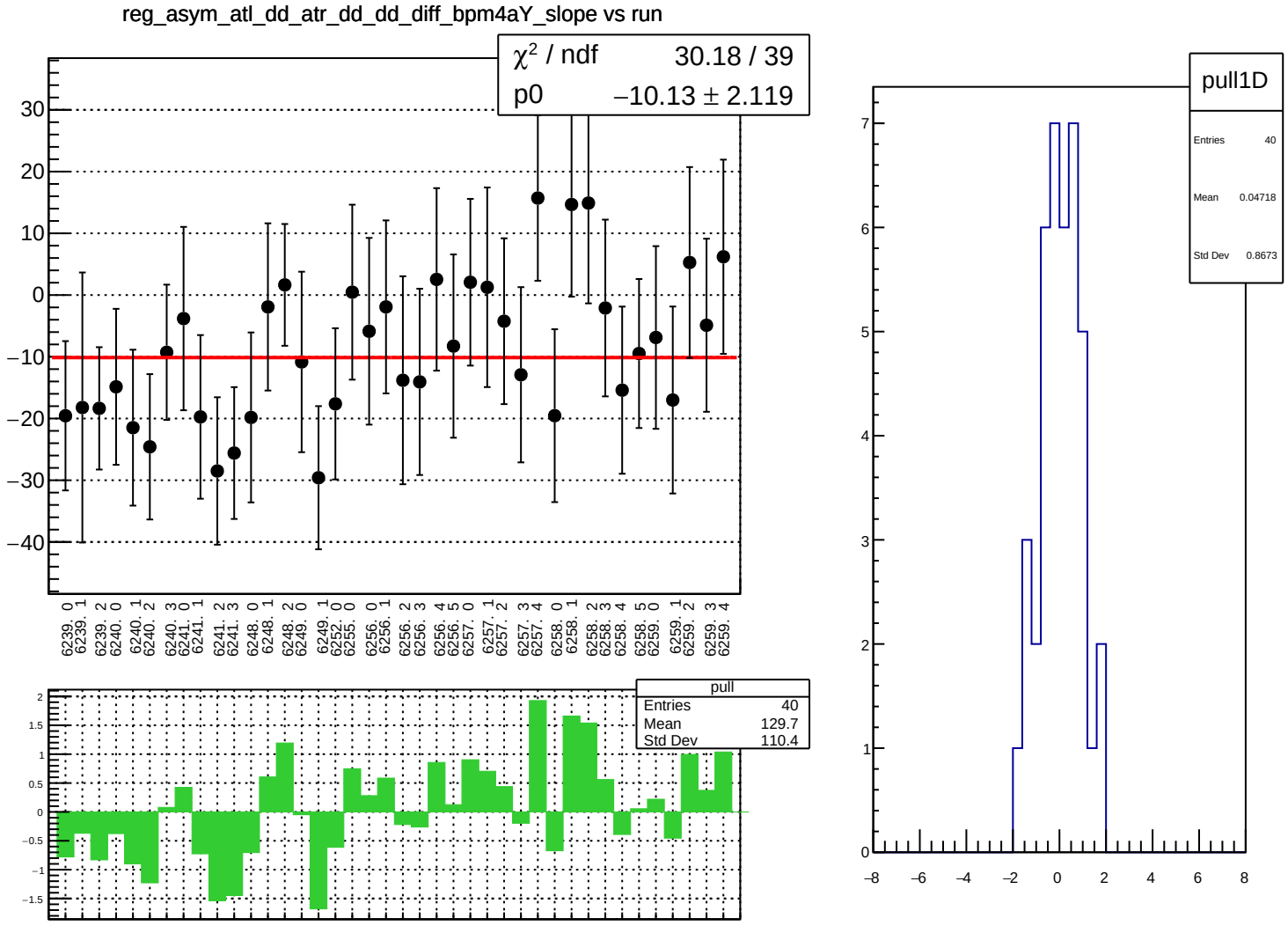

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.18 / 39
p0 −105.5 ± 4.728
pull
Entries 40
Mean 110.2
Std Dev 92.74

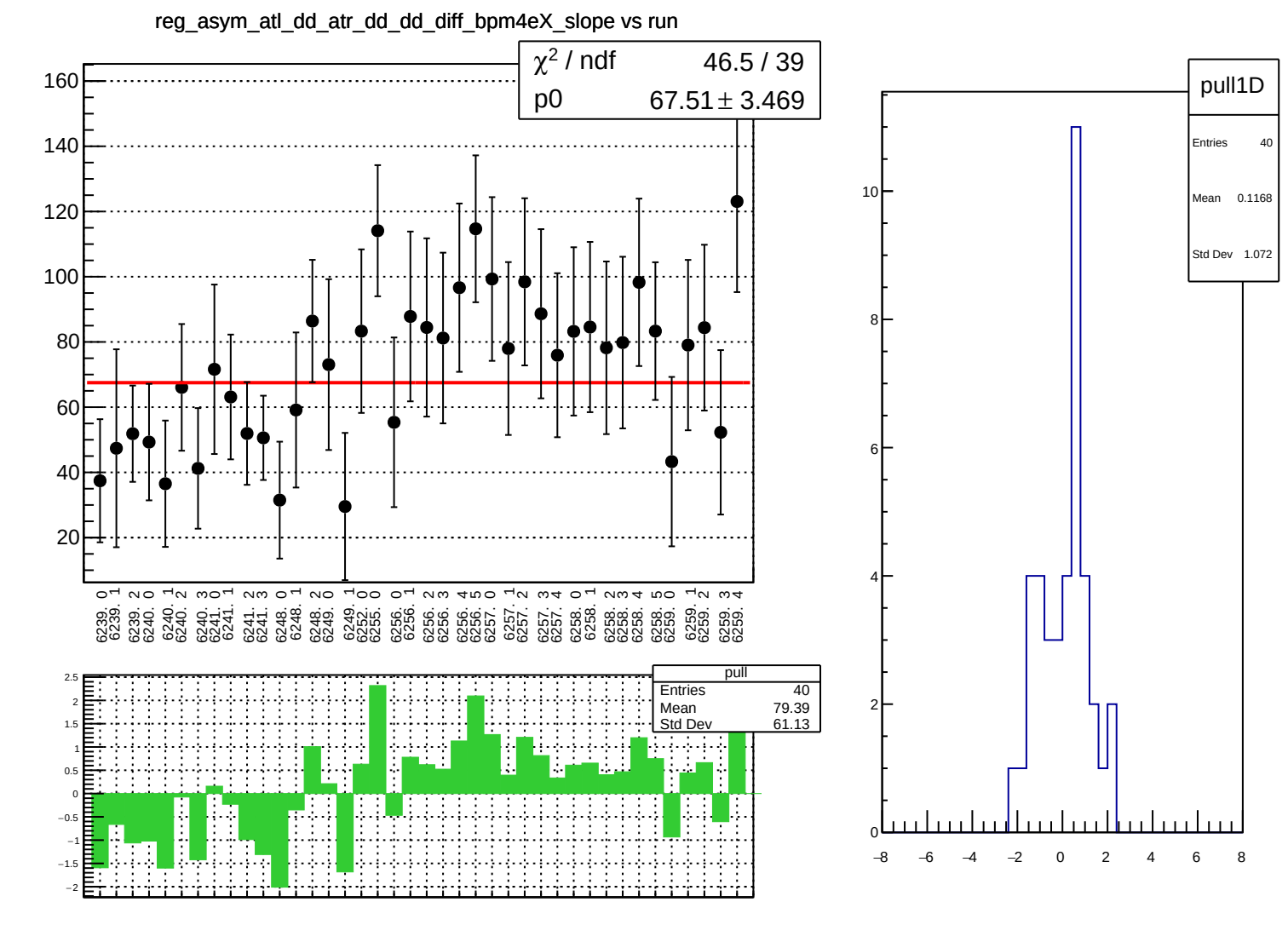

pull1D
Entries 40
Mean 0.04142
Std Dev 0.6541

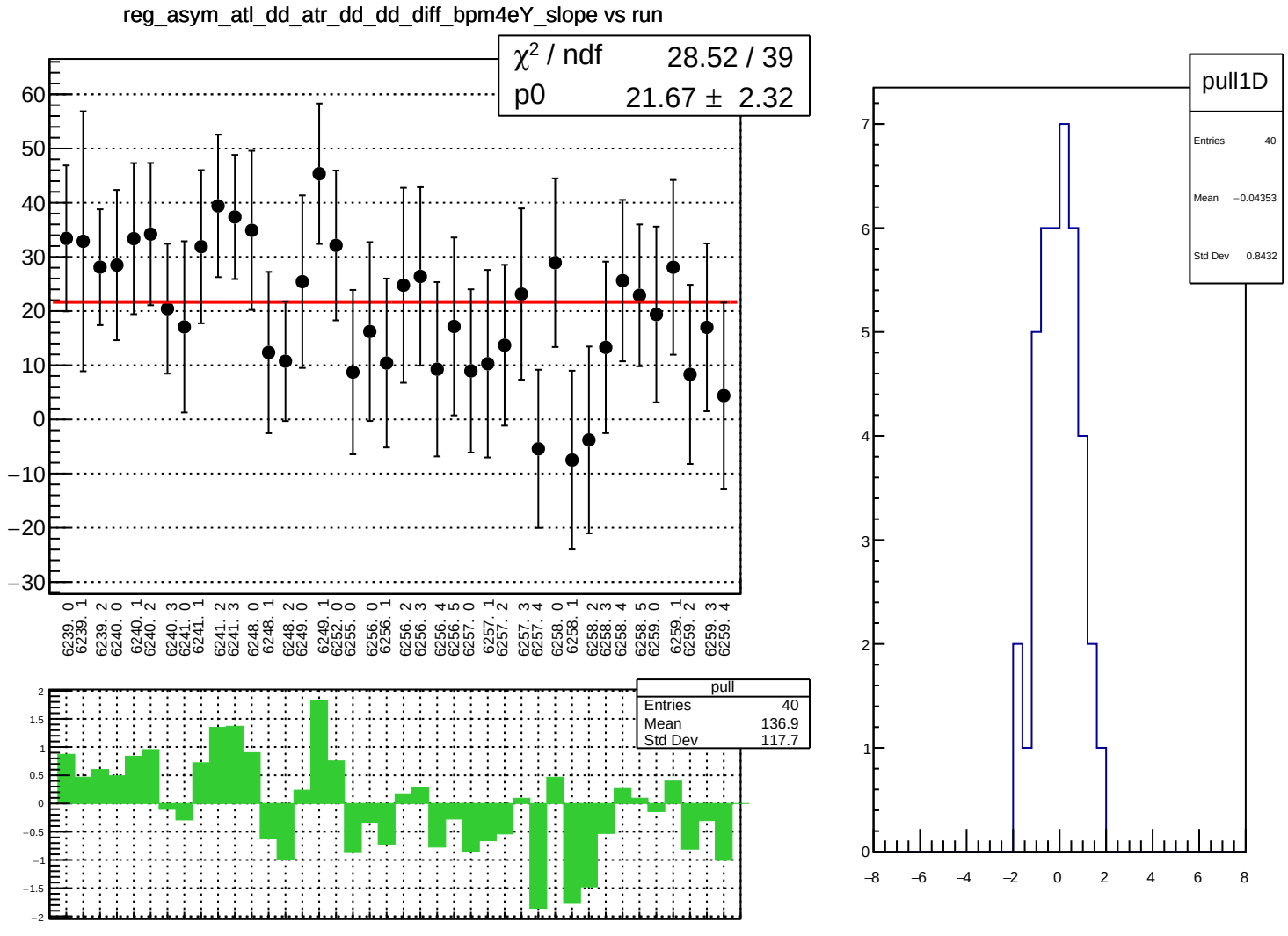

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 23.16 / 39
p0 96.06 ± 0.3348
pull
Entries 40
Mean 2117
Std Dev 2098

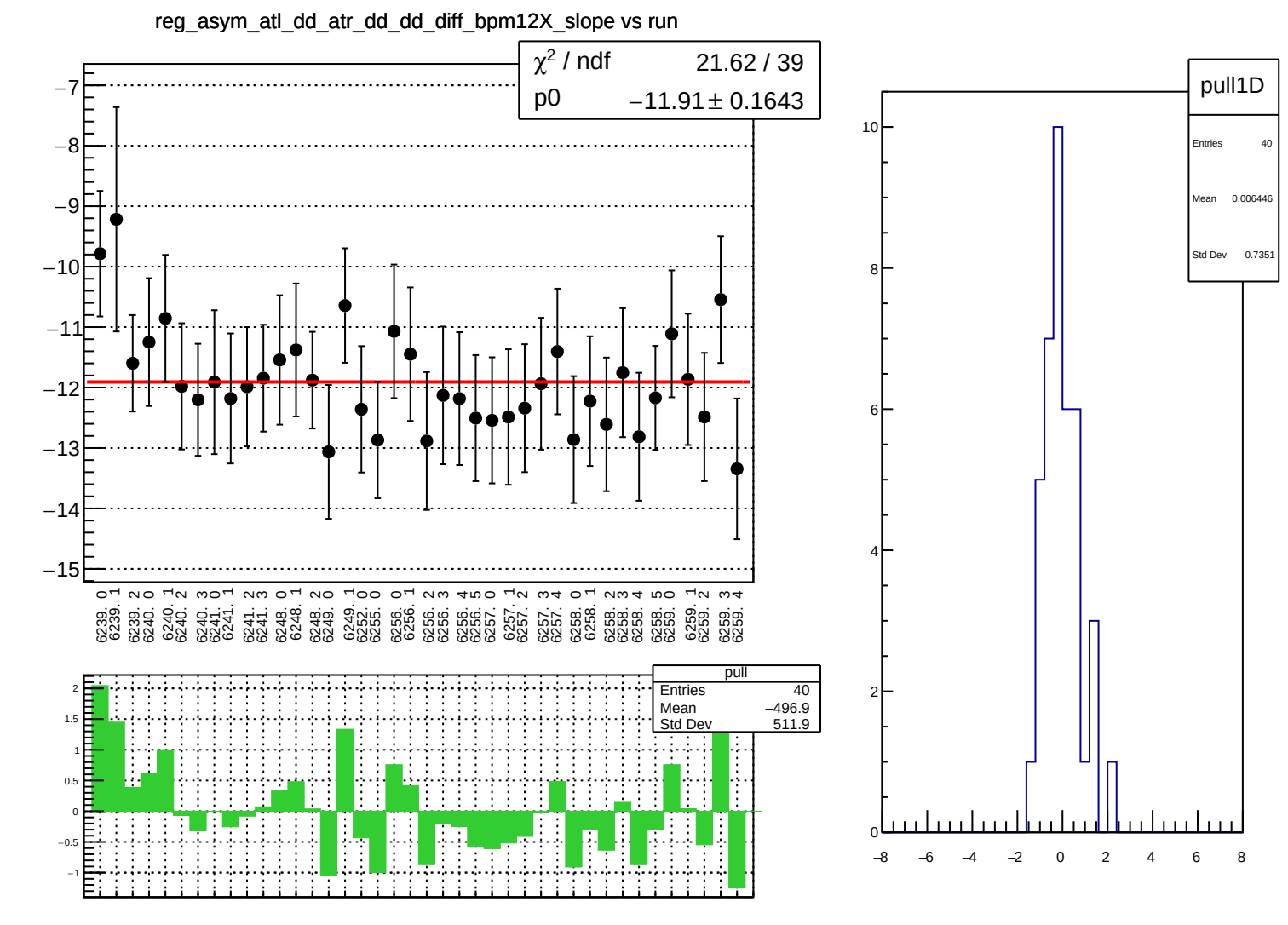

pull1D
Entries 40
Mean 0.002406
Std Dev 0.761

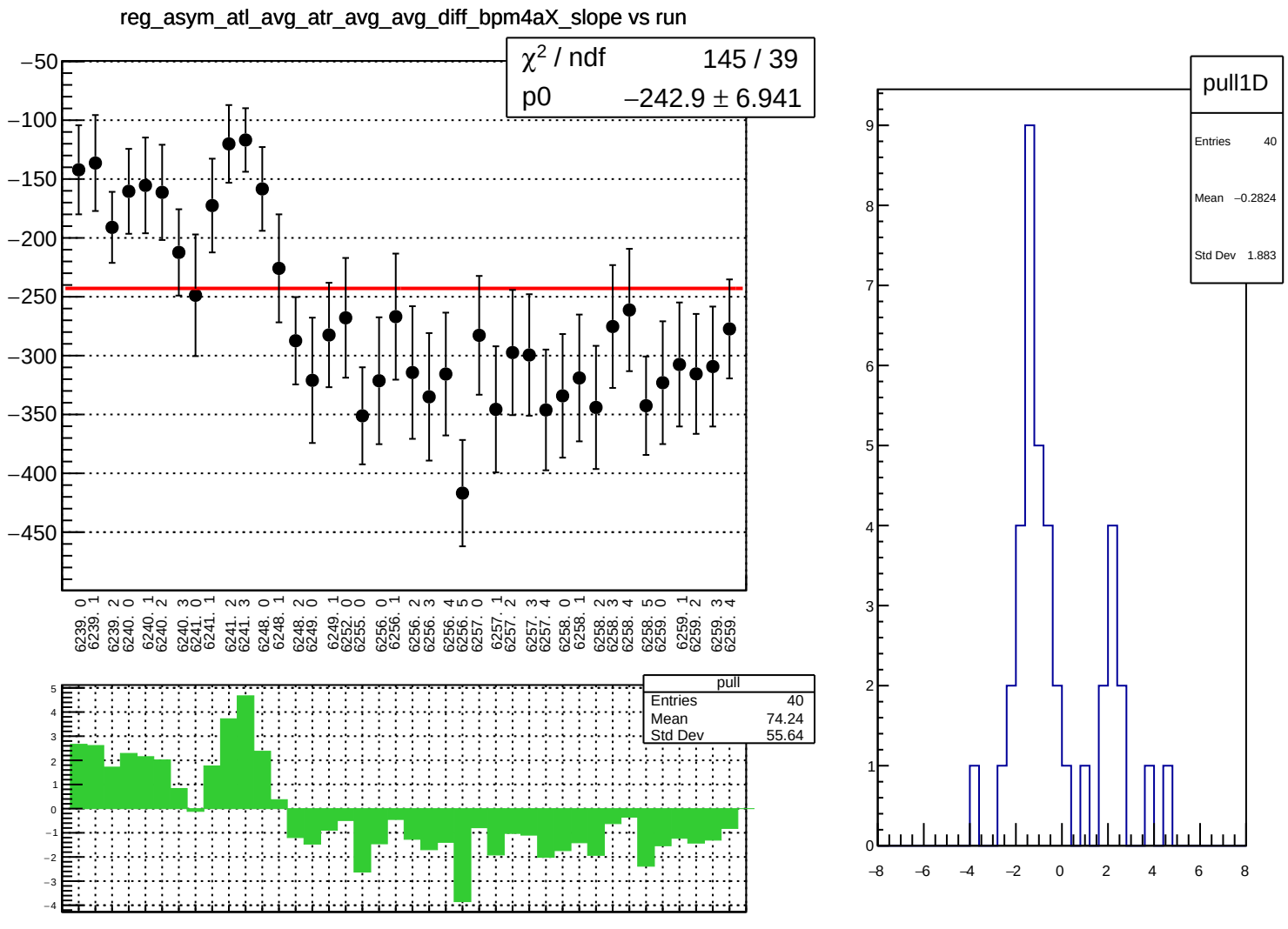

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 44.45 / 39
p0 1.103 ± 2.998
pull
Entries 40
Mean 83.32
Std Dev 65.12
pull1D
Entries 40
Mean −0.1081
Std Dev 1.049

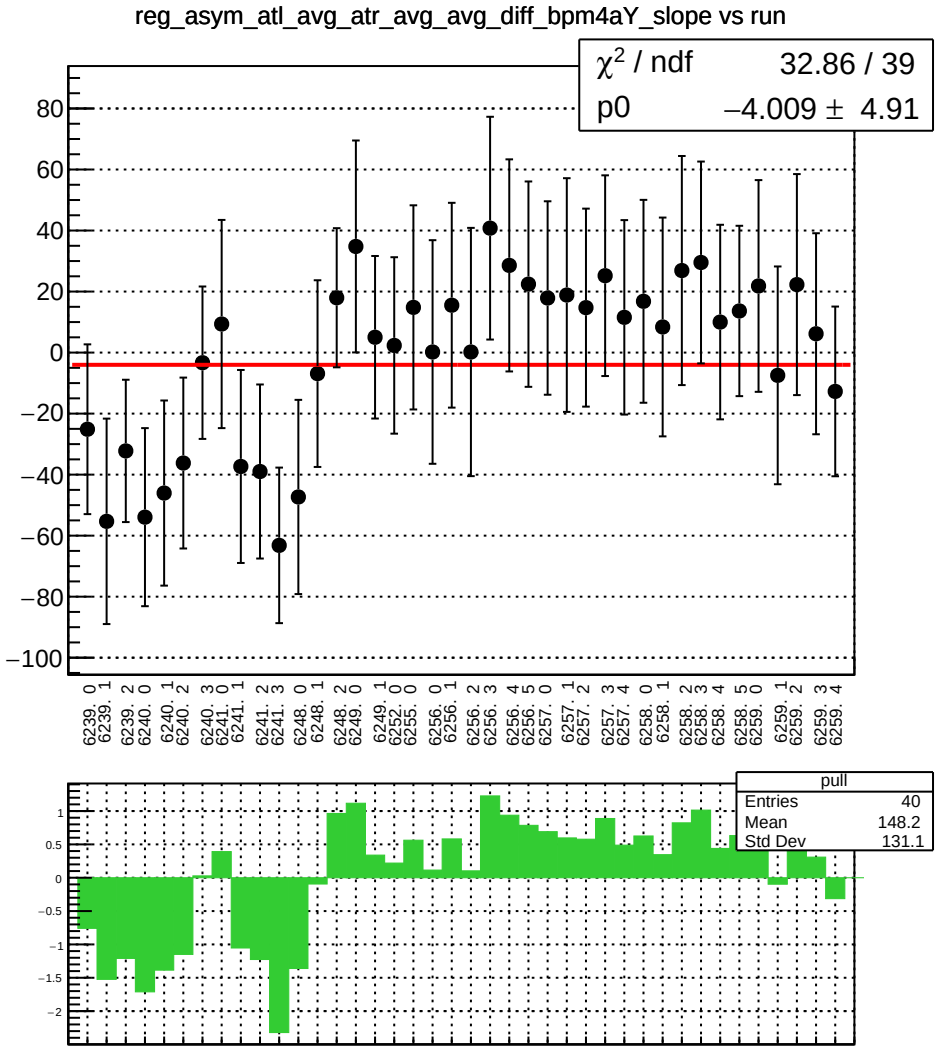

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.18 / 39
p0 −10.13 ± 2.119
pull
Entries 40
Mean 129.7
Std Dev 110.4
pull1D
Entries 40
Mean 0.04718
Std Dev 0.8673

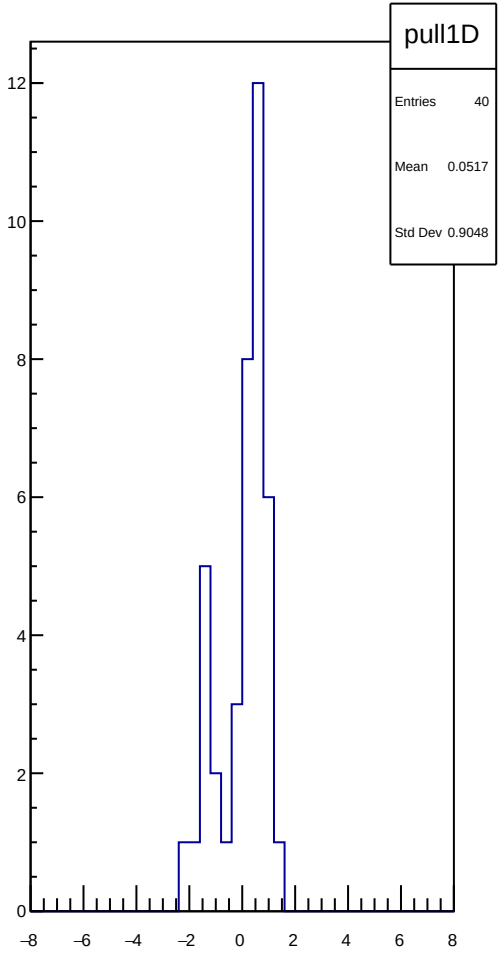

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.5 / 39
p0 67.51 ± 3.469
160
140
120
100
80
60
40
20
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 79.39
Std Dev 61.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 40
Mean 0.1168
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

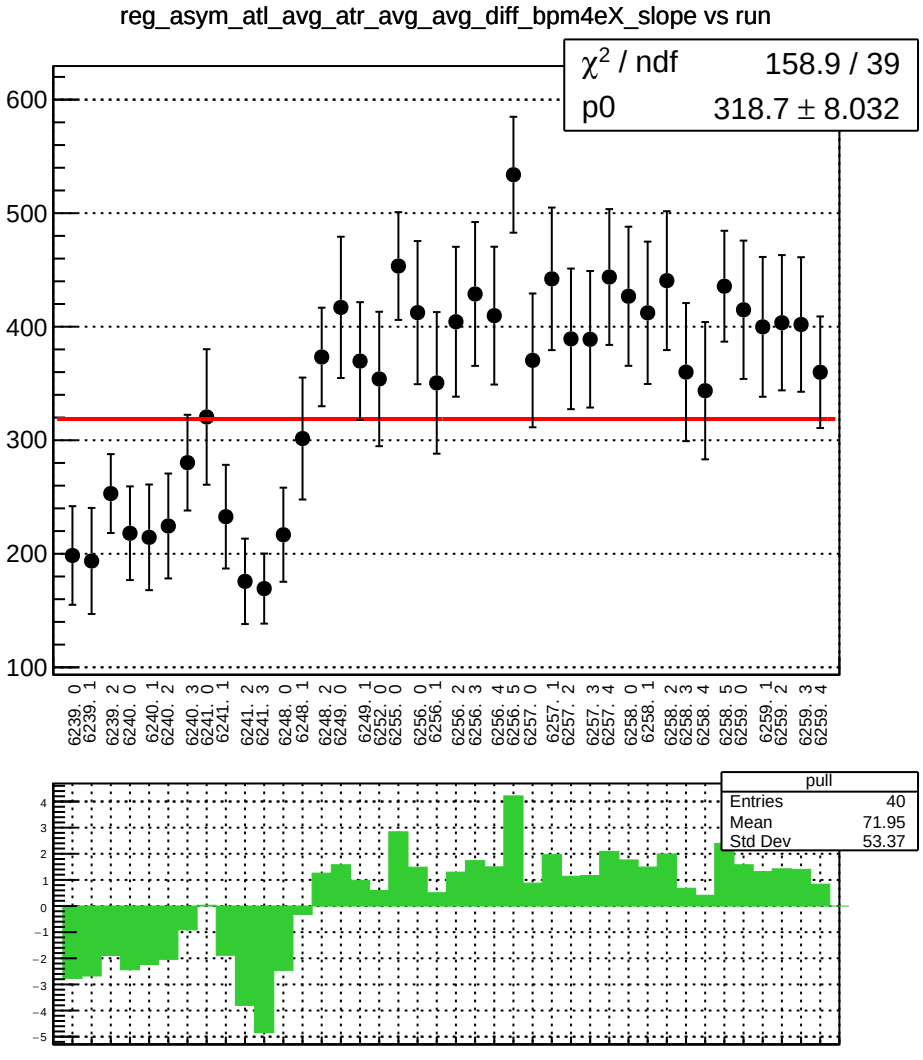

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.52 / 39
p0 21.67 ± 2.32
pull
Entries 40
Mean 136.9
Std Dev 117.7
pull1D
Entries 40
Mean −0.04353
Std Dev 0.8432

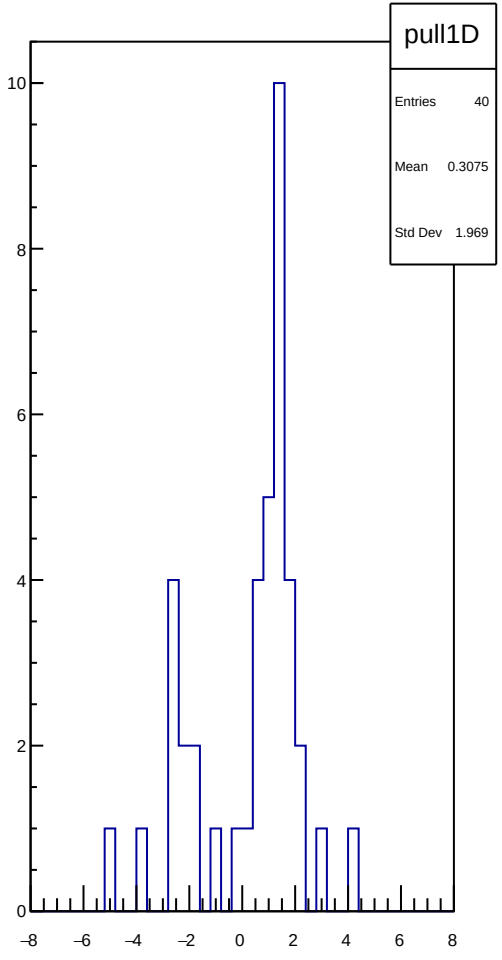

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 21.62 / 39
p0 −11.91 ± 0.1643
pull
Entries 40
Mean −496.9
Std Dev 511.9
pull1D
Entries 40
Mean 0.006446
Std Dev 0.7351

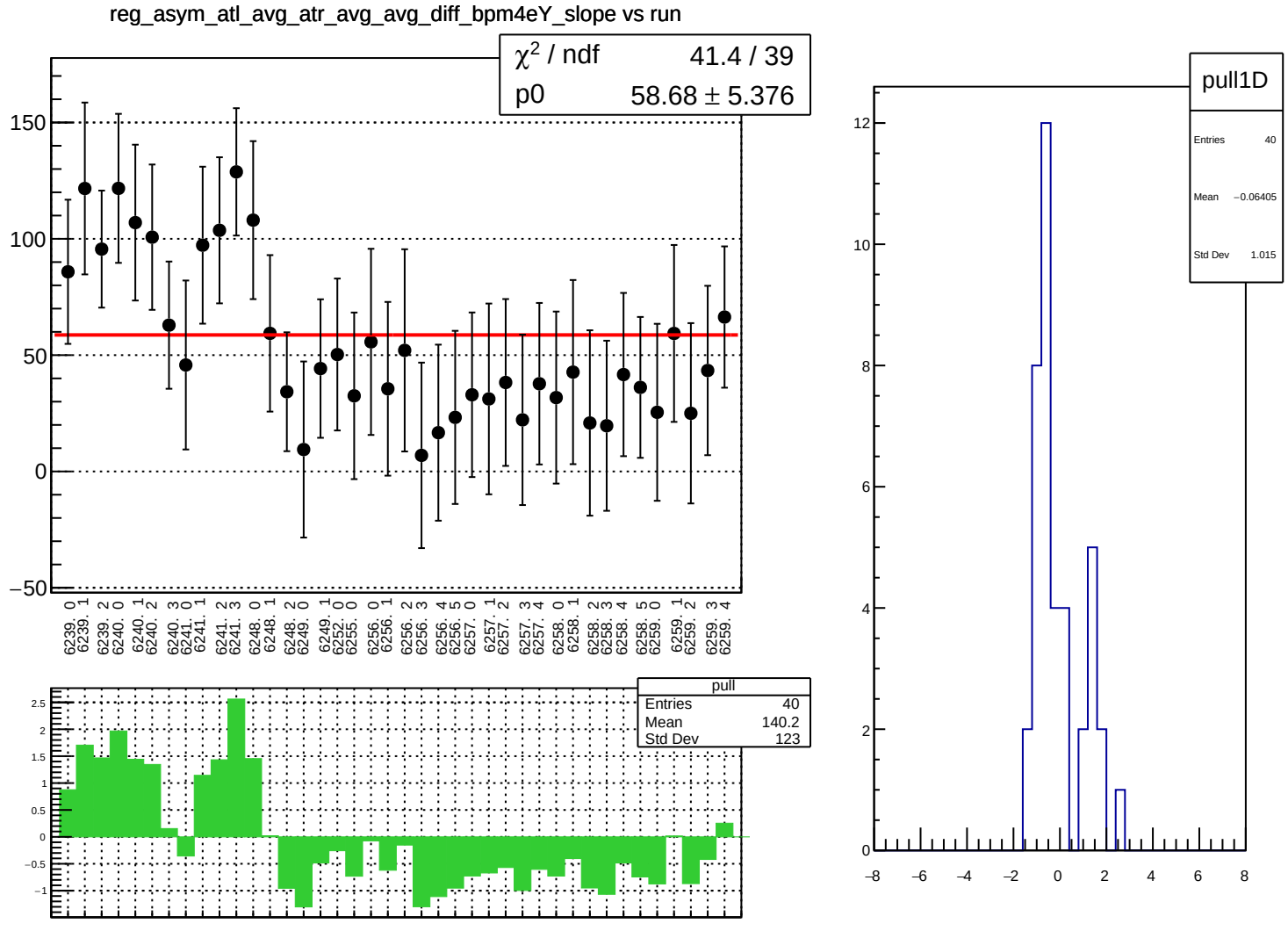

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 145 / 39
p0 −242.9 ± 6.941
−50
−100
−150
−200
−250
−300
−350
−400
−450
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 74.24
Std Dev 55.64
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 40
Mean −0.2824
Std Dev 1.883
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

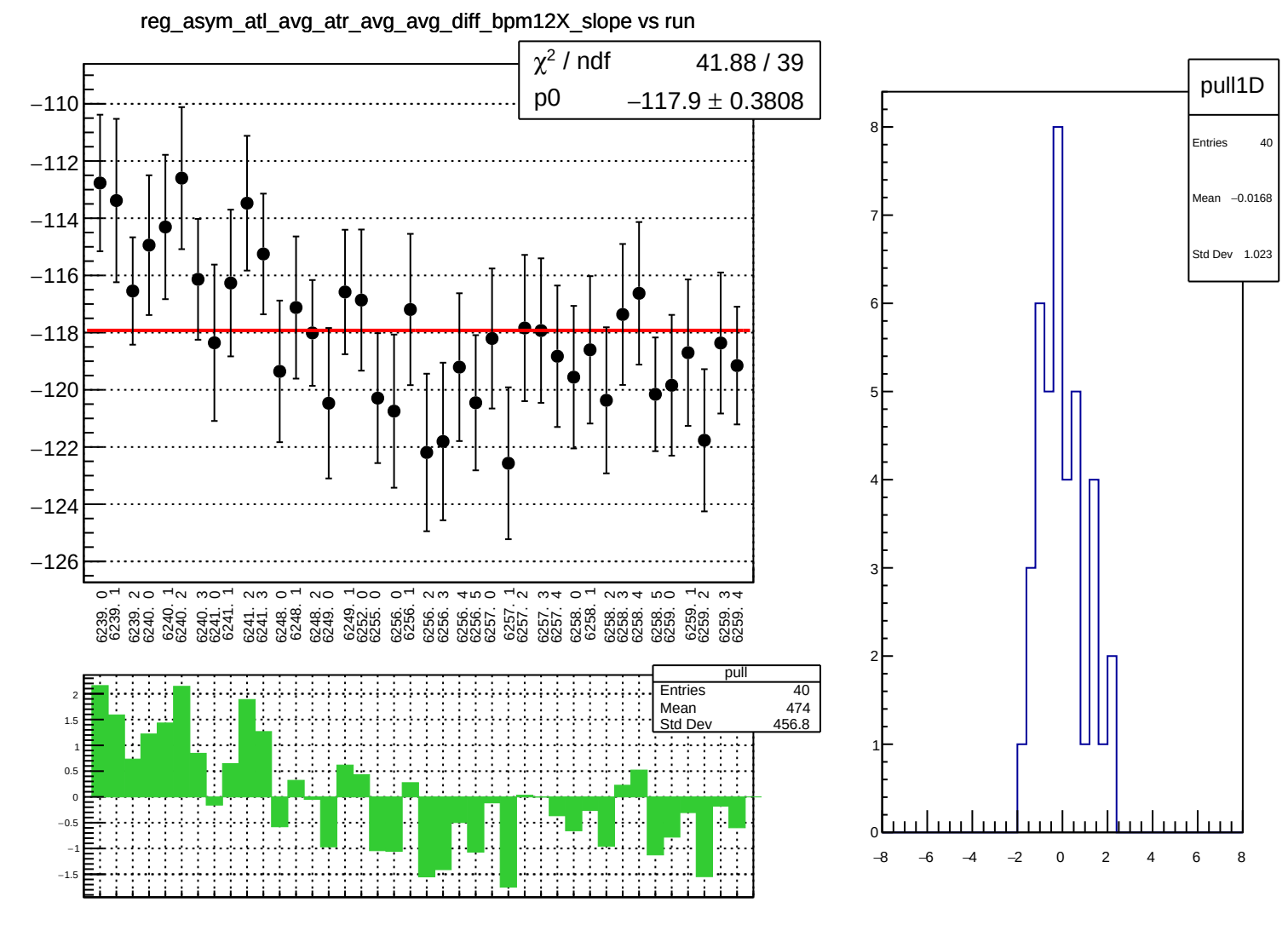

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.86 / 39
p0 −4.009 ± 4.91
pull
Entries 40
Mean 148.2
Std Dev 131.1

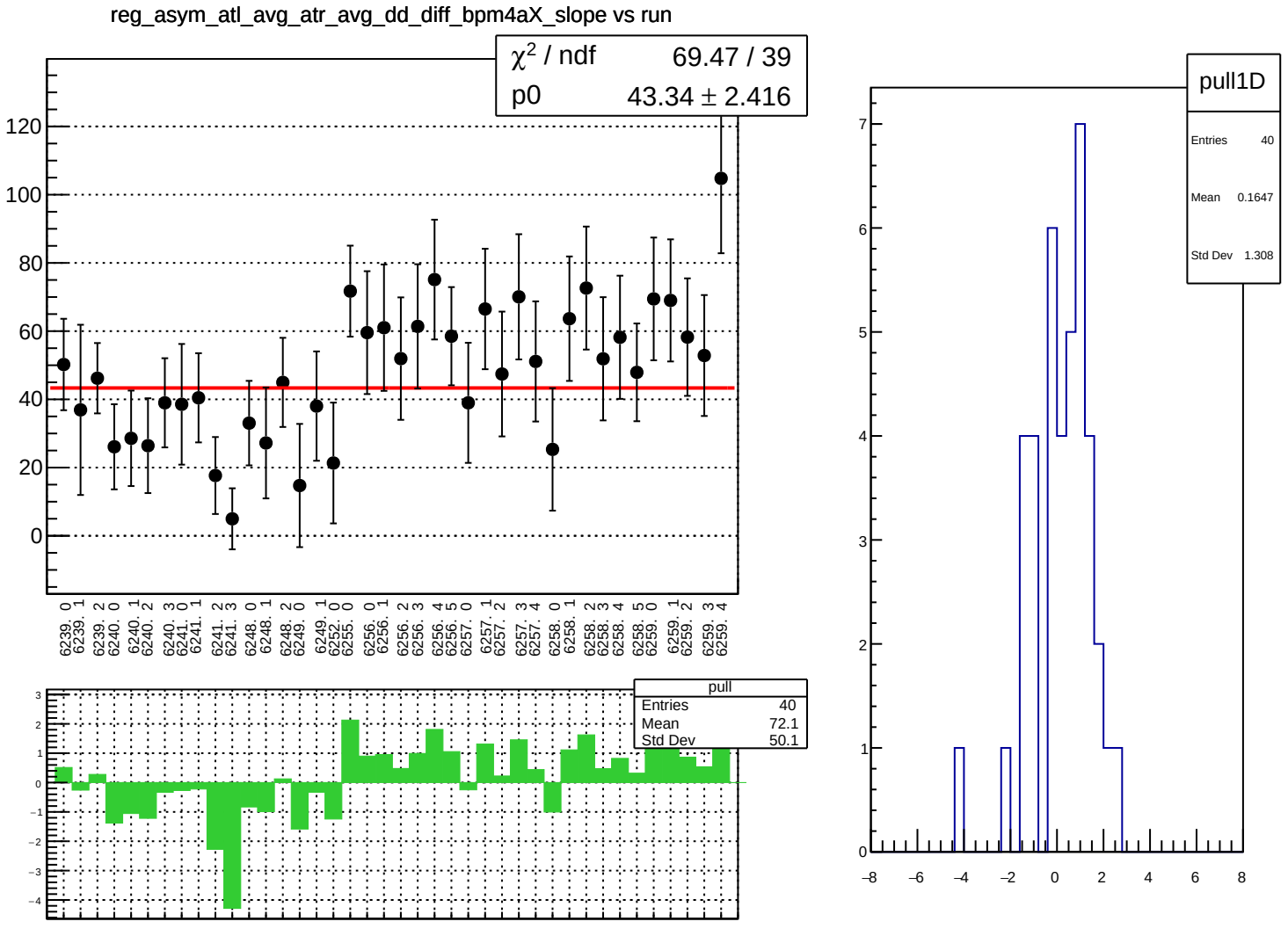

pull1D
Entries 40
Mean 0.0517
Std Dev 0.9048

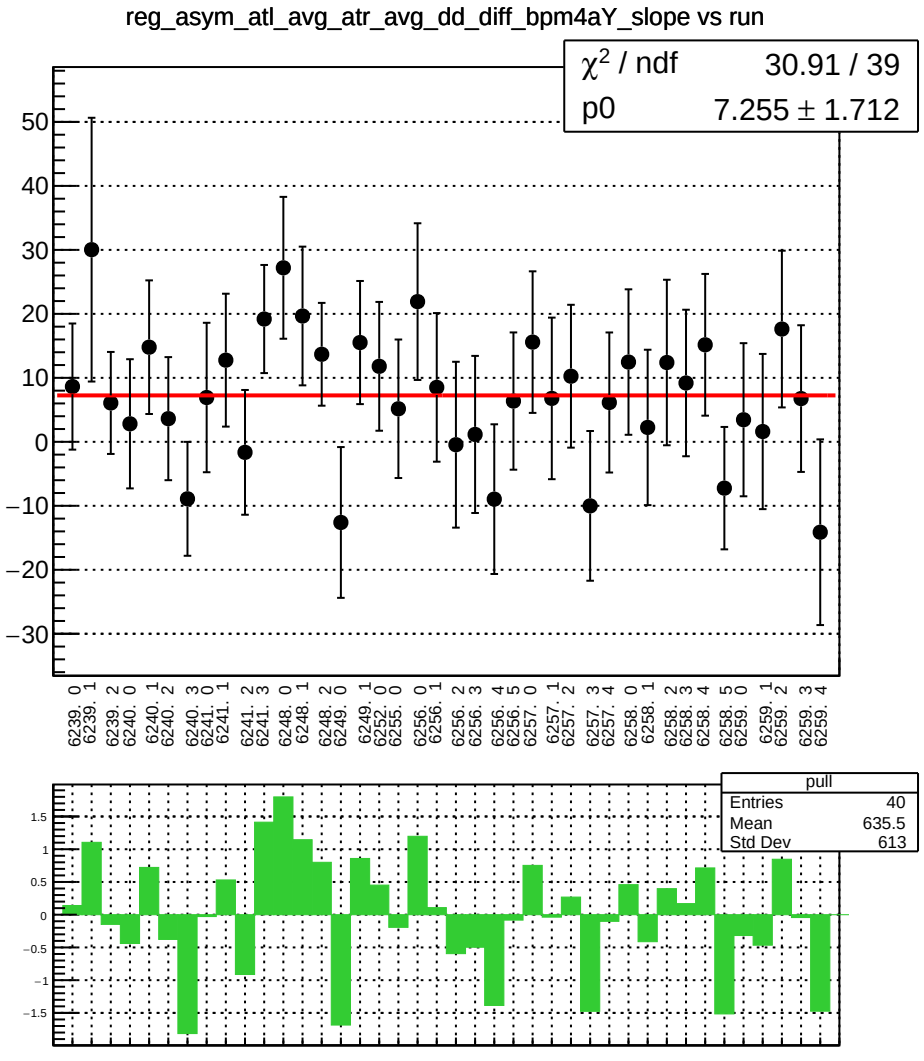

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 158.9 / 39
p0 318.7 ± 8.032
600
500
400
300
200
100
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 71.95
Std Dev 53.37
4
3
2
1
0
−1
−2
−3
−4
−5

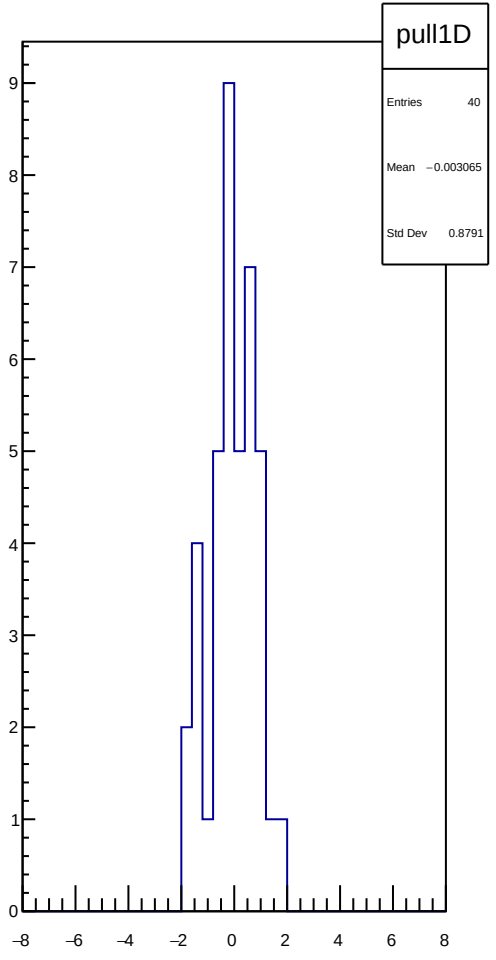

pull1D
Entries 40
Mean 0.3075
Std Dev 1.969
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

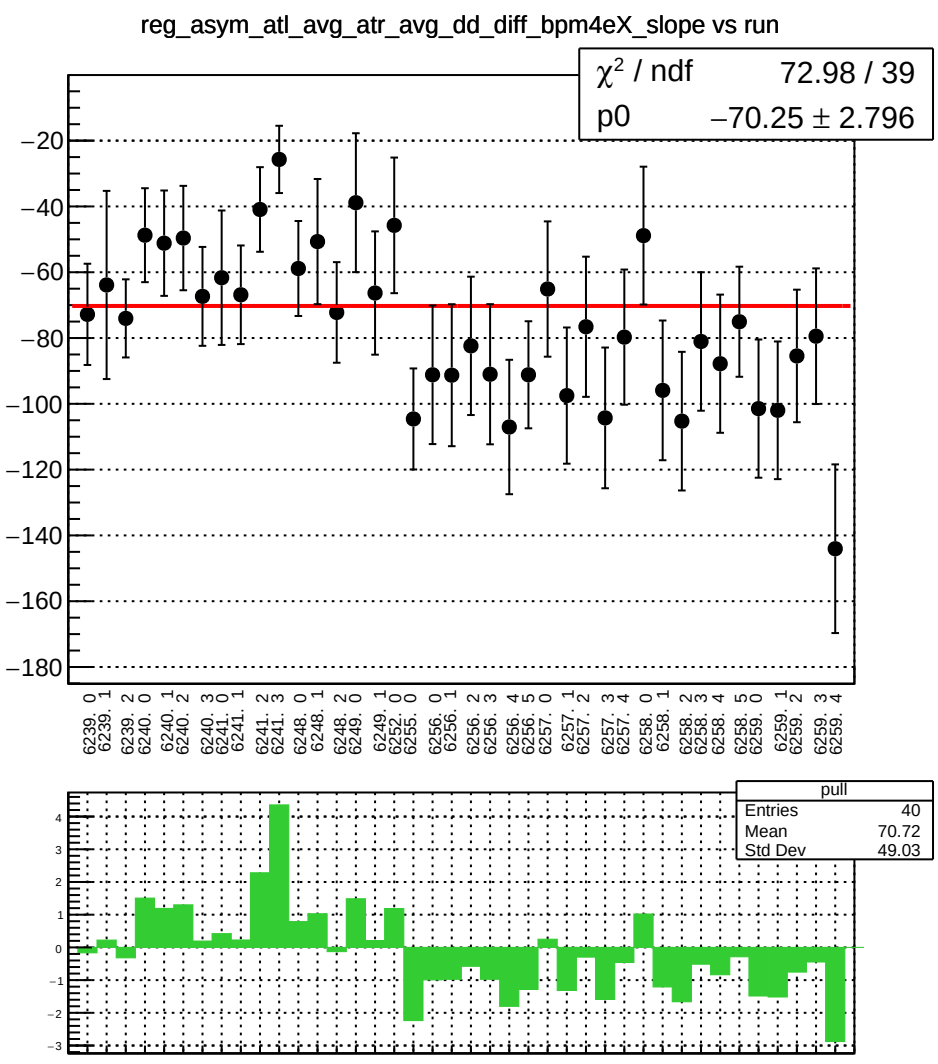

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.4 / 39
p0 58.68 ± 5.376
150
100
50
0
−50
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 140.2
Std Dev 123
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 40
Mean −0.06405
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

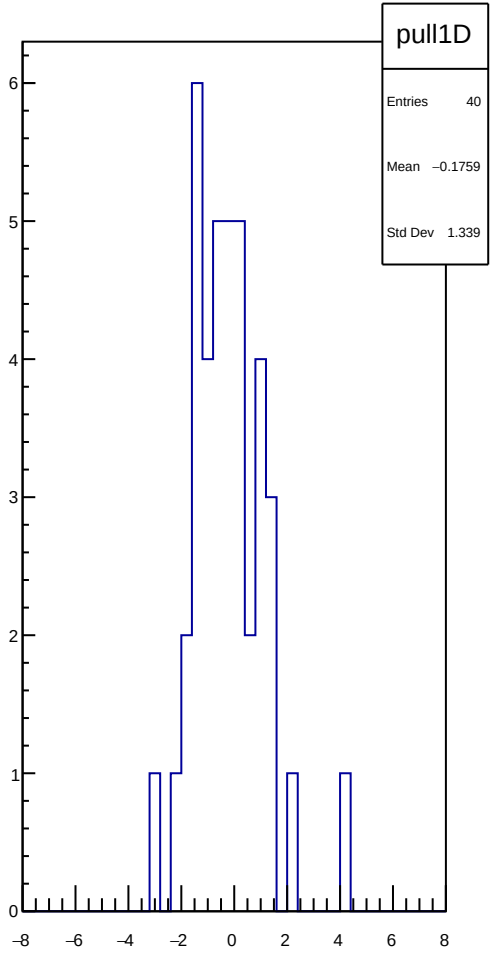

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 41.88 / 39
p0 −117.9 ± 0.3808
−110
−112
−114
−116
−118
−120
−122
−124
−126
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 474
Std Dev 456.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 40
Mean −0.0168
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

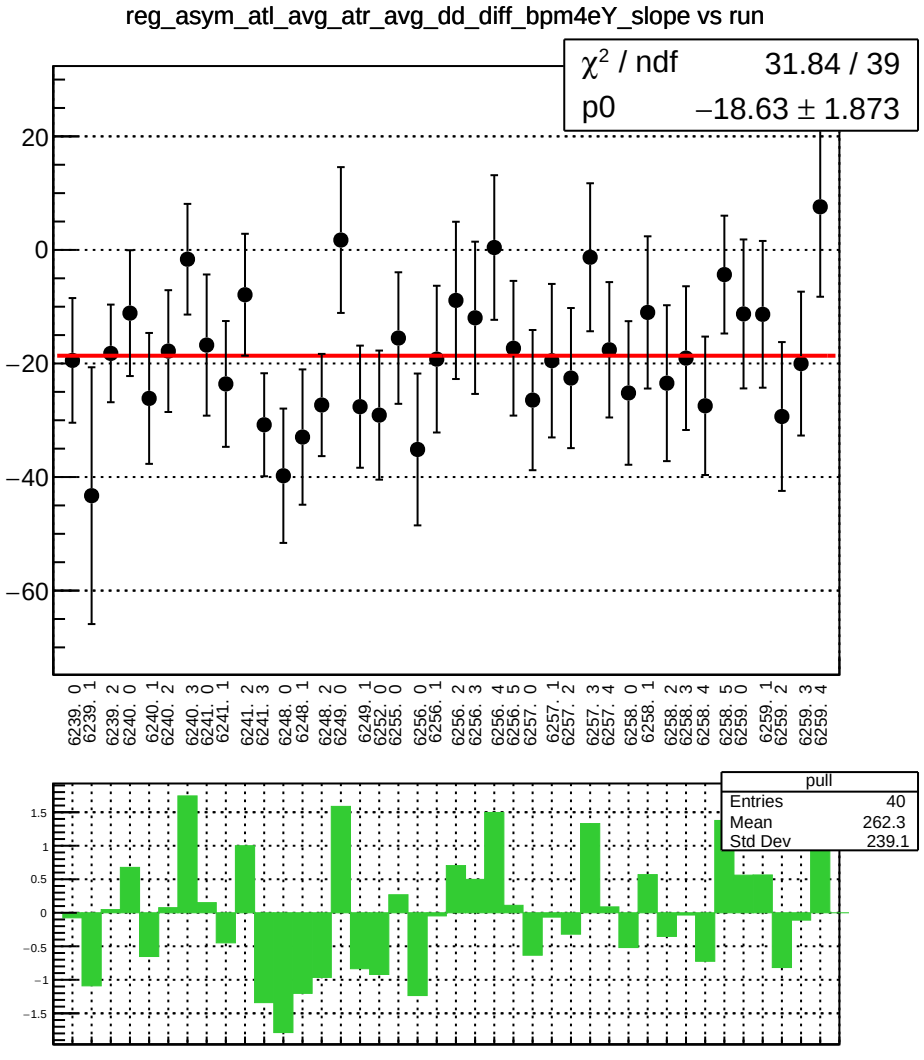

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 69.47 / 39
p0 43.34 ± 2.416
120
100
80
60
40
20
0
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 72.1
Std Dev 50.1
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 40
Mean 0.1647
Std Dev 1.308
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

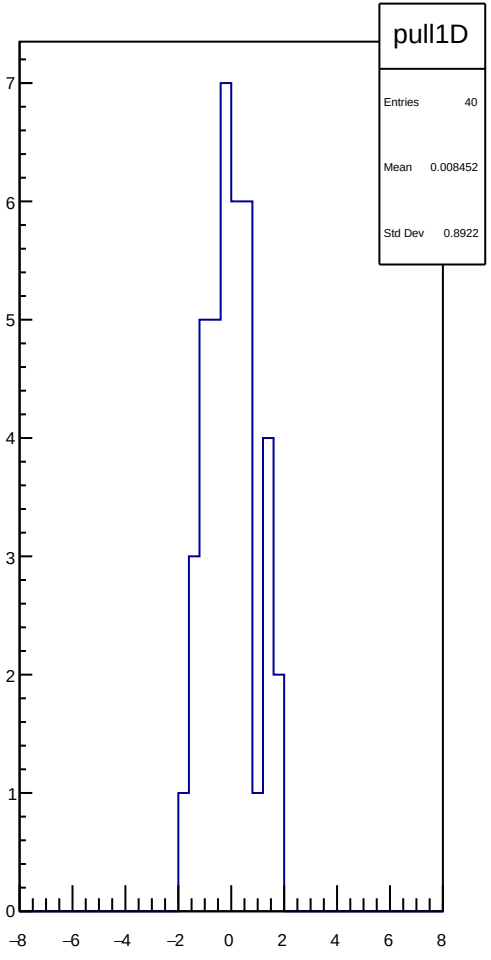

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.91 / 39
p0 7.255 ± 1.712
pull
Entries 40
Mean 635.5
Std Dev 613

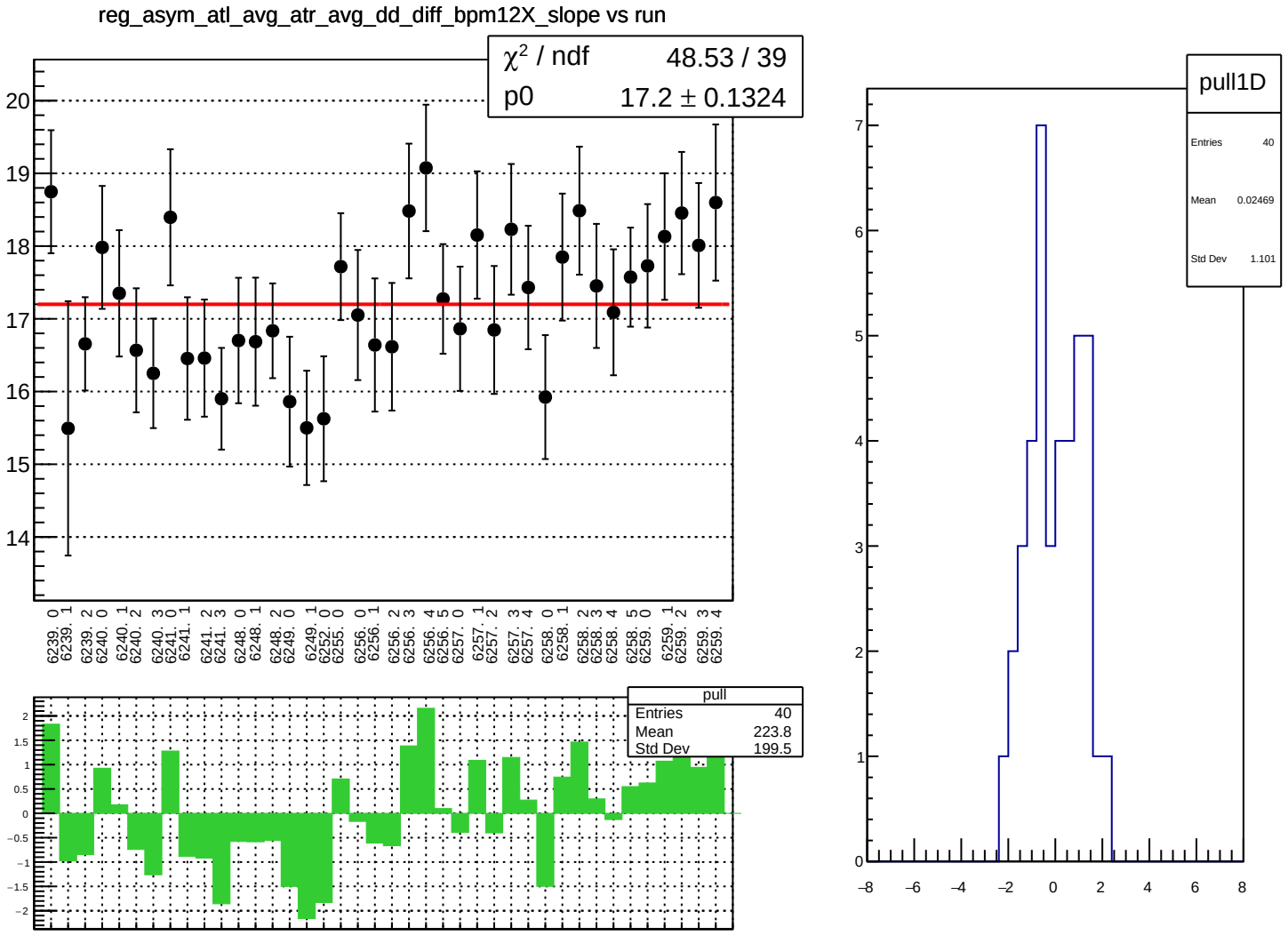

pull1D
Entries 40
Mean −0.003065
Std Dev 0.8791

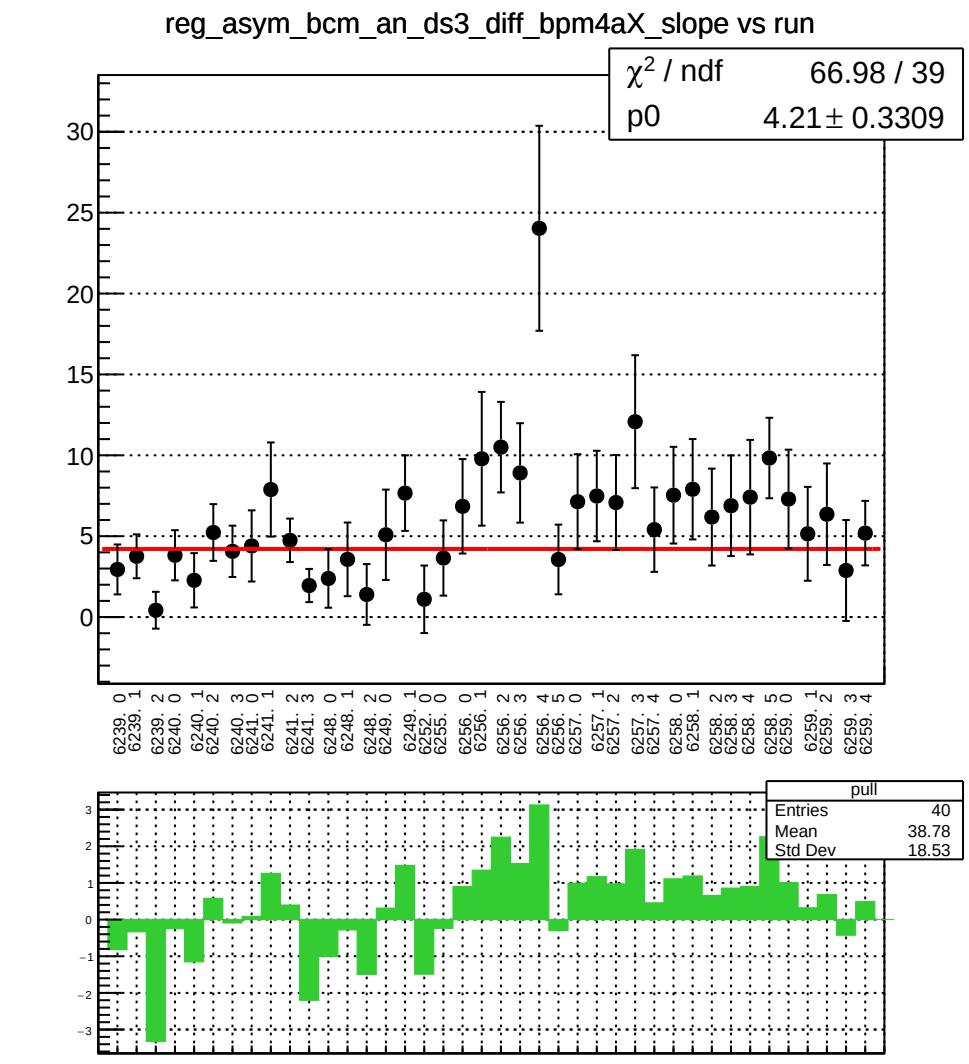

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.98 / 39
p0 −70.25 ± 2.796
pull
Entries 40
Mean 70.72
Std Dev 49.03

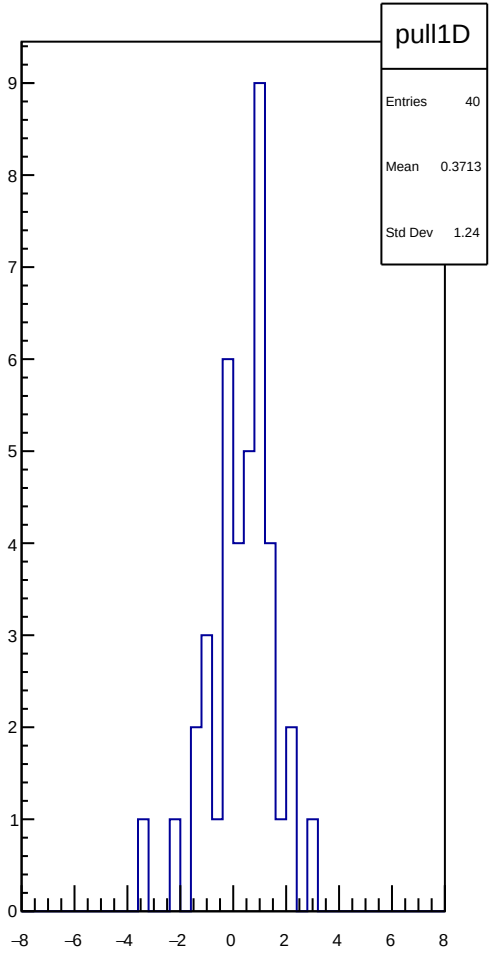

pull1D
Entries 40
Mean −0.1759
Std Dev 1.339

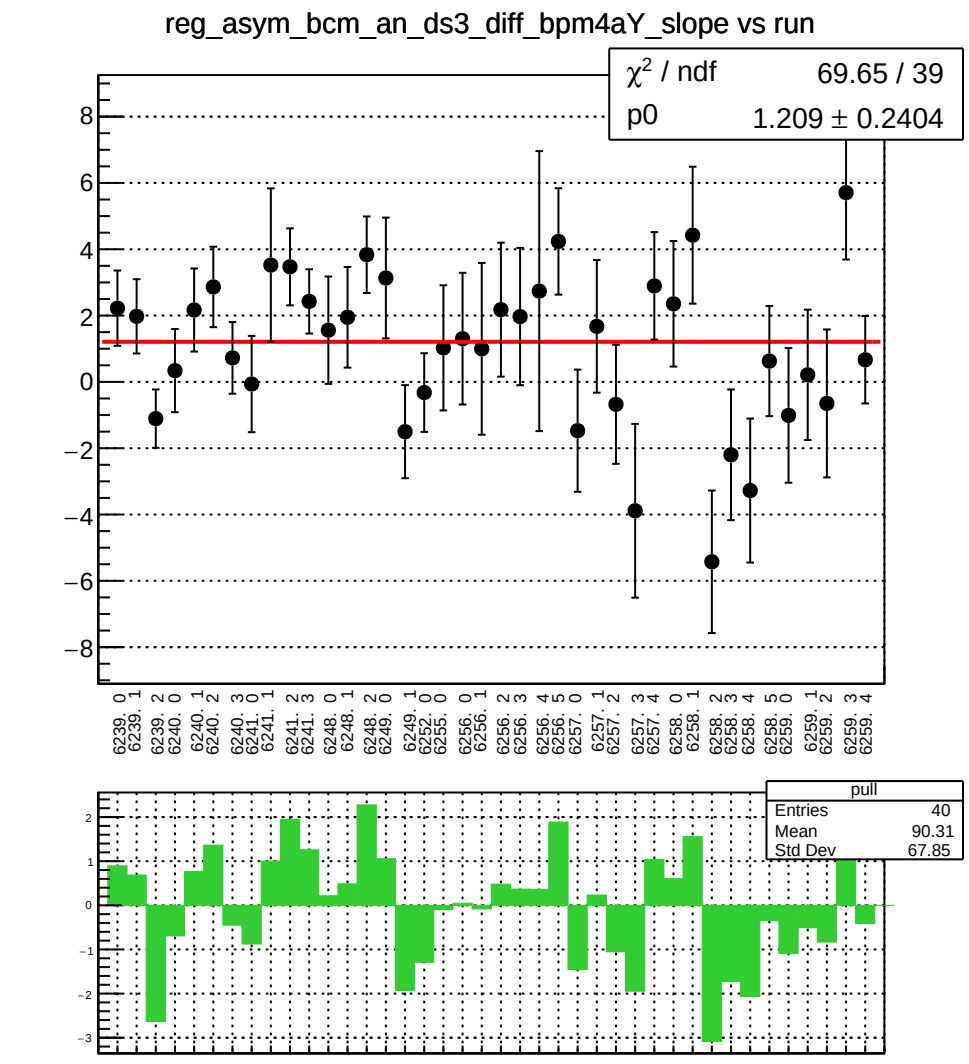

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.84 / 39
p0 −18.63 ± 1.873
20
0
−20
−40
−60
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 262.3
Std Dev 239.1
1.5
1
0.5
0
−0.5
−1
−1.5

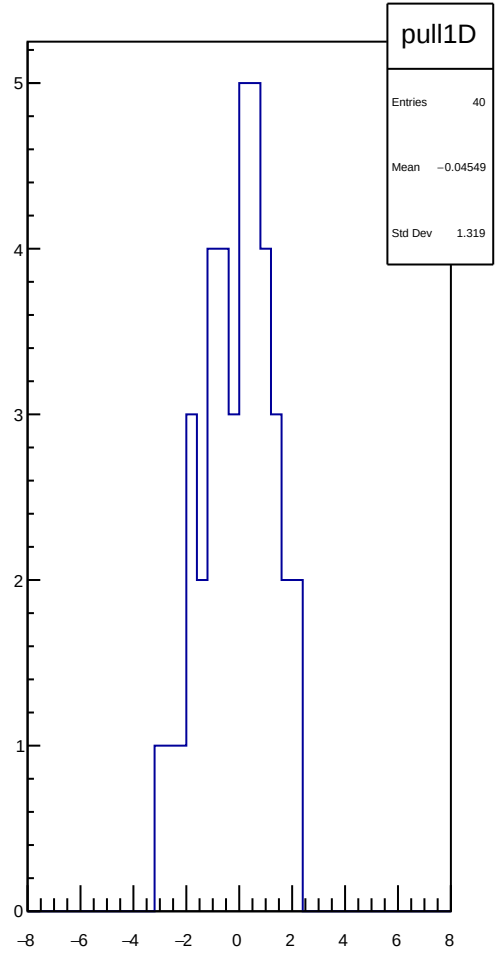

pull1D
Entries 40
Mean 0.008452
Std Dev 0.8922
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

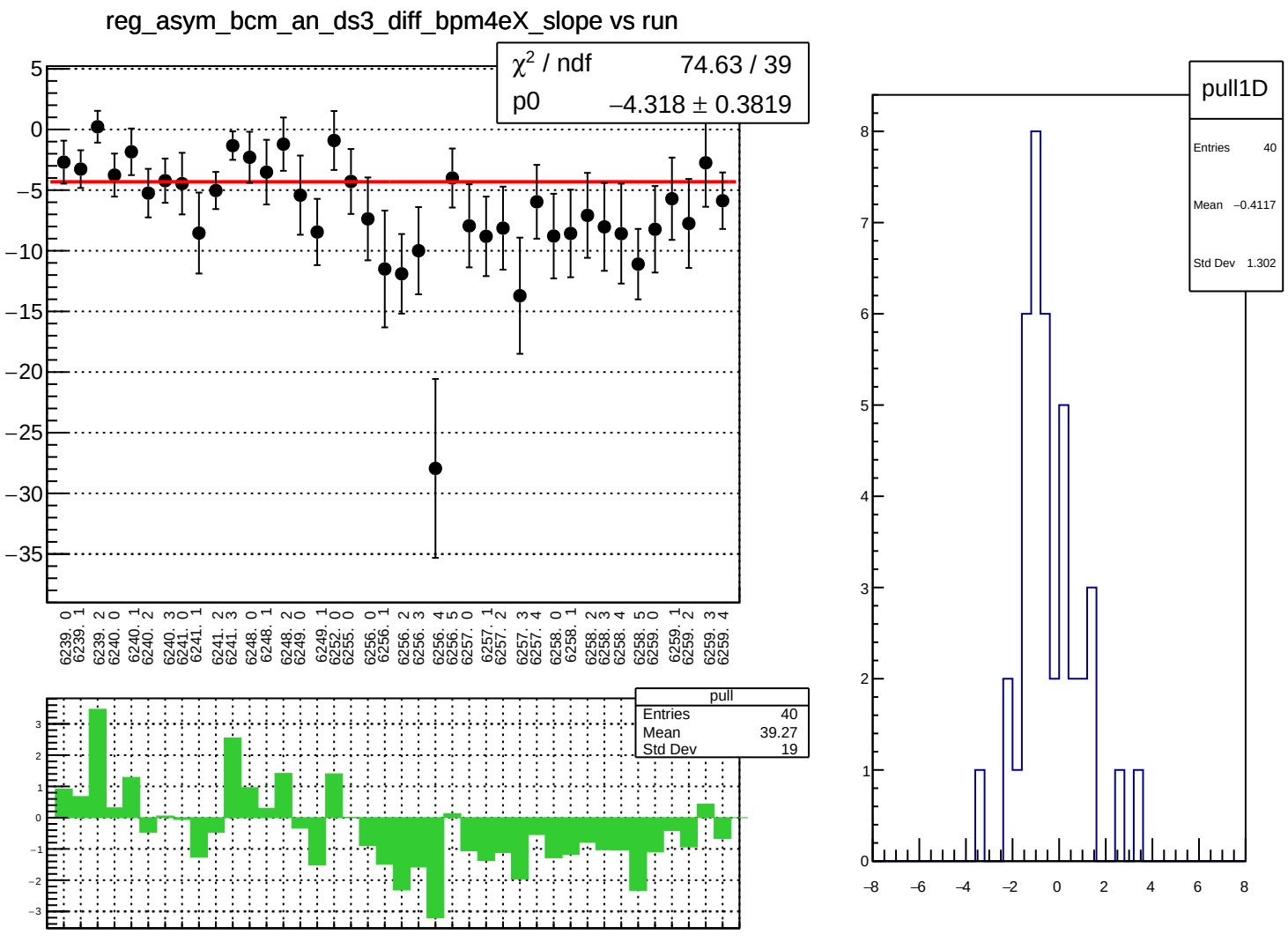

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 48.53 / 39
p0 17.2 ± 0.1324
pull
Entries 40
Mean 223.8
Std Dev 199.5
pull1D
Entries 40
Mean 0.02469
Std Dev 1.101

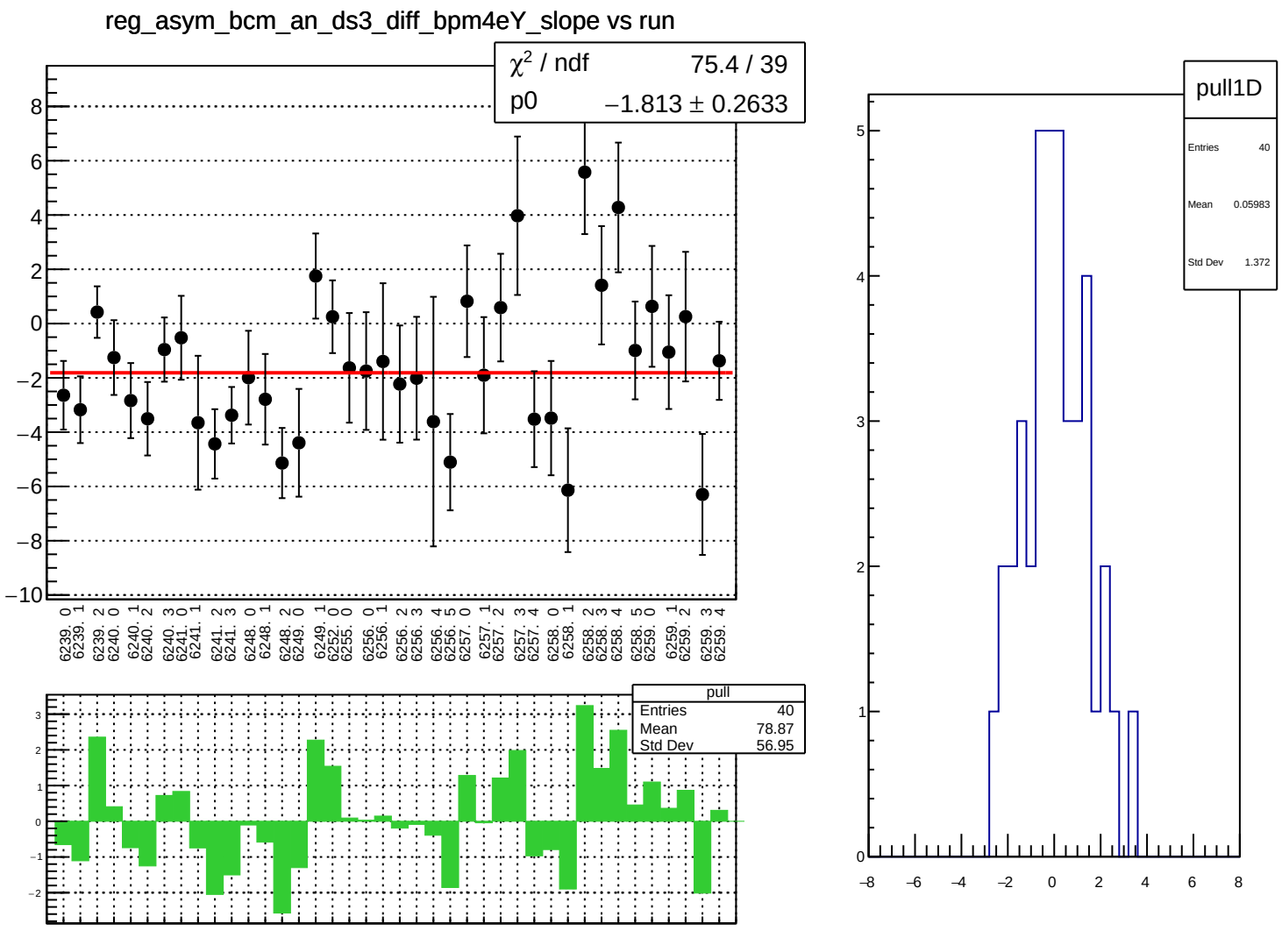

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 66.98 / 39
p0 4.21 ± 0.3309
pull
Entries 40
Mean 38.78
Std Dev 18.53

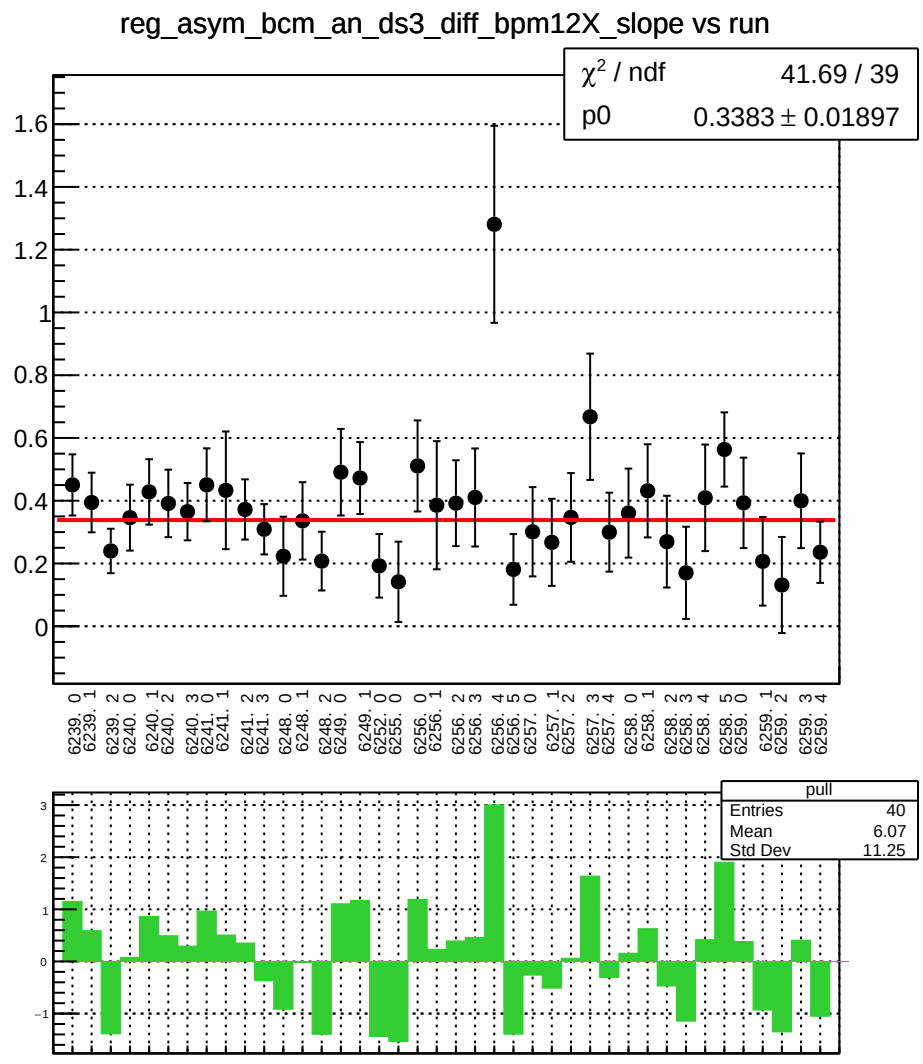

pull1D
Entries 40
Mean 0.3713
Std Dev 1.24

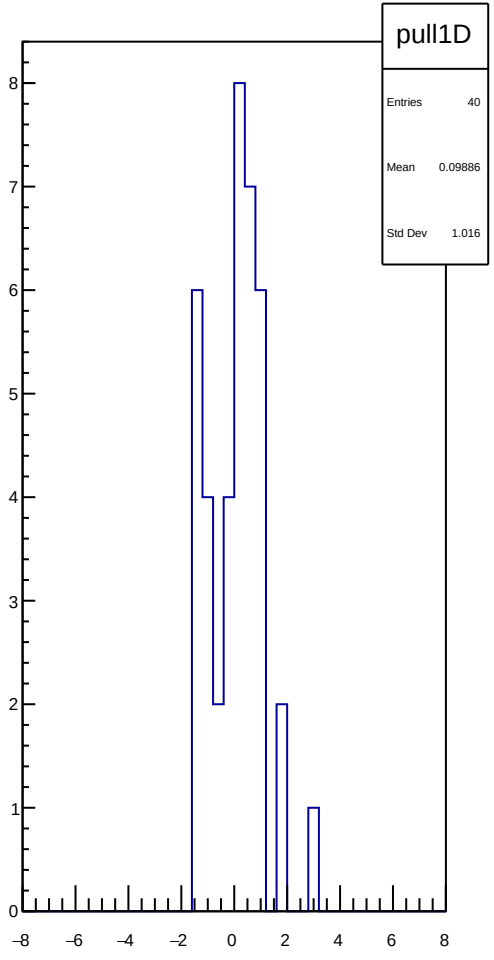

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 69.65 / 39
p0 1.209 ± 0.2404
pull
Entries 40
Mean 90.31
Std Dev 67.85

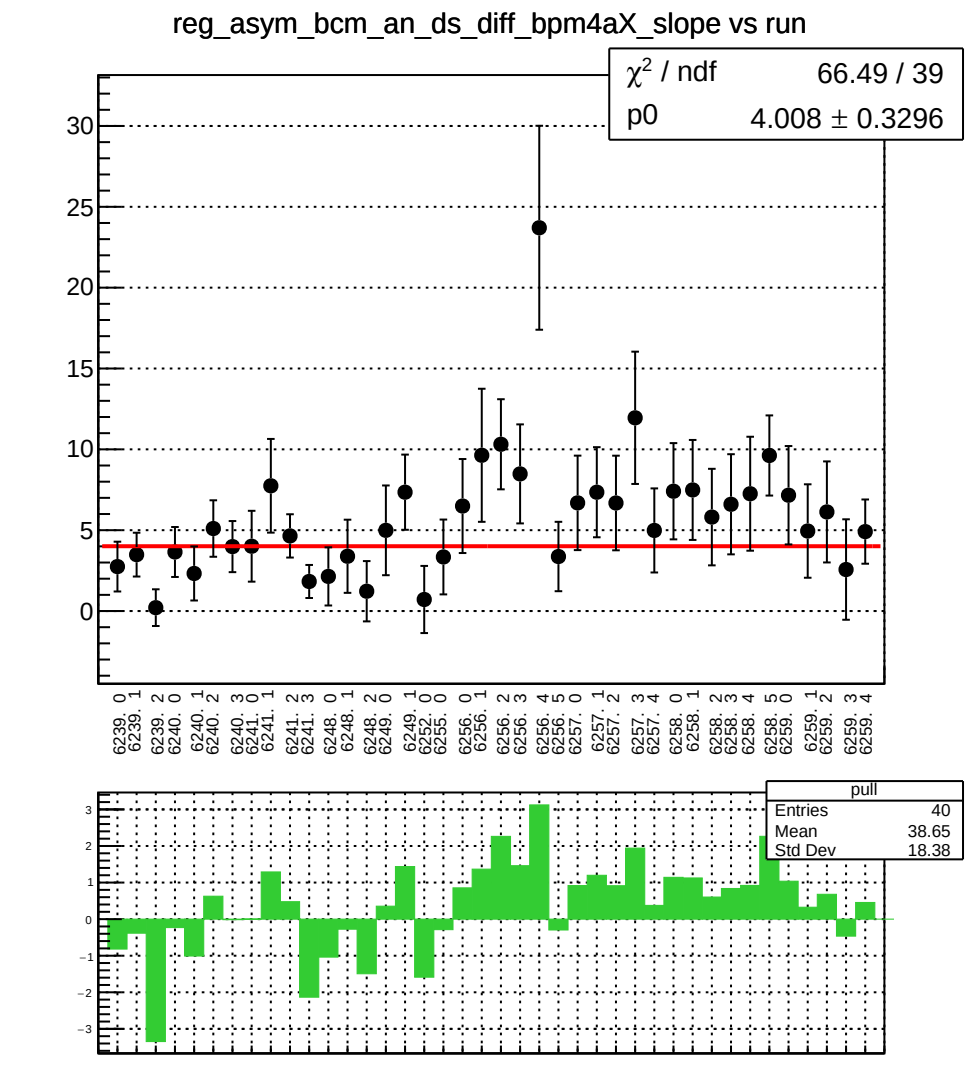

pull1D
Entries 40
Mean −0.04549
Std Dev 1.319

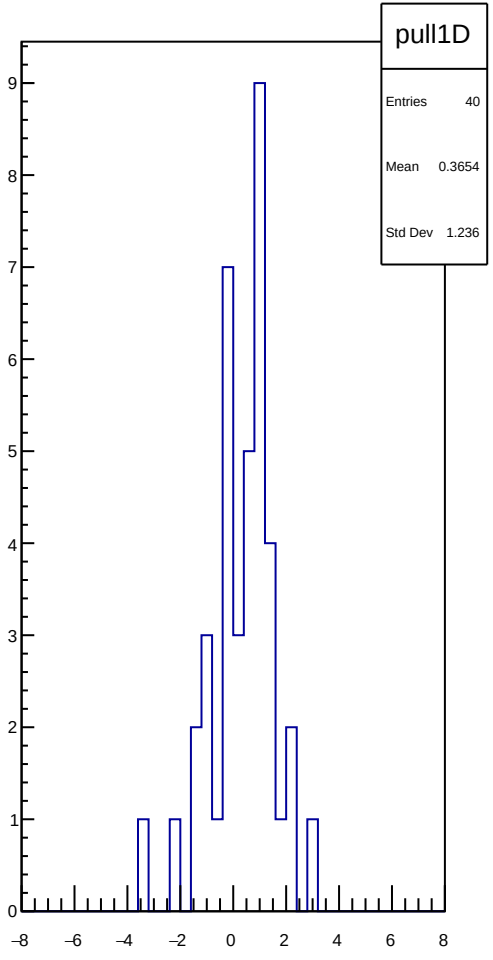

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 74.63 / 39
p0 −4.318 ± 0.3819
pull
Entries 40
Mean 39.27
Std Dev 19
pull1D
Entries 40
Mean −0.4117
Std Dev 1.302

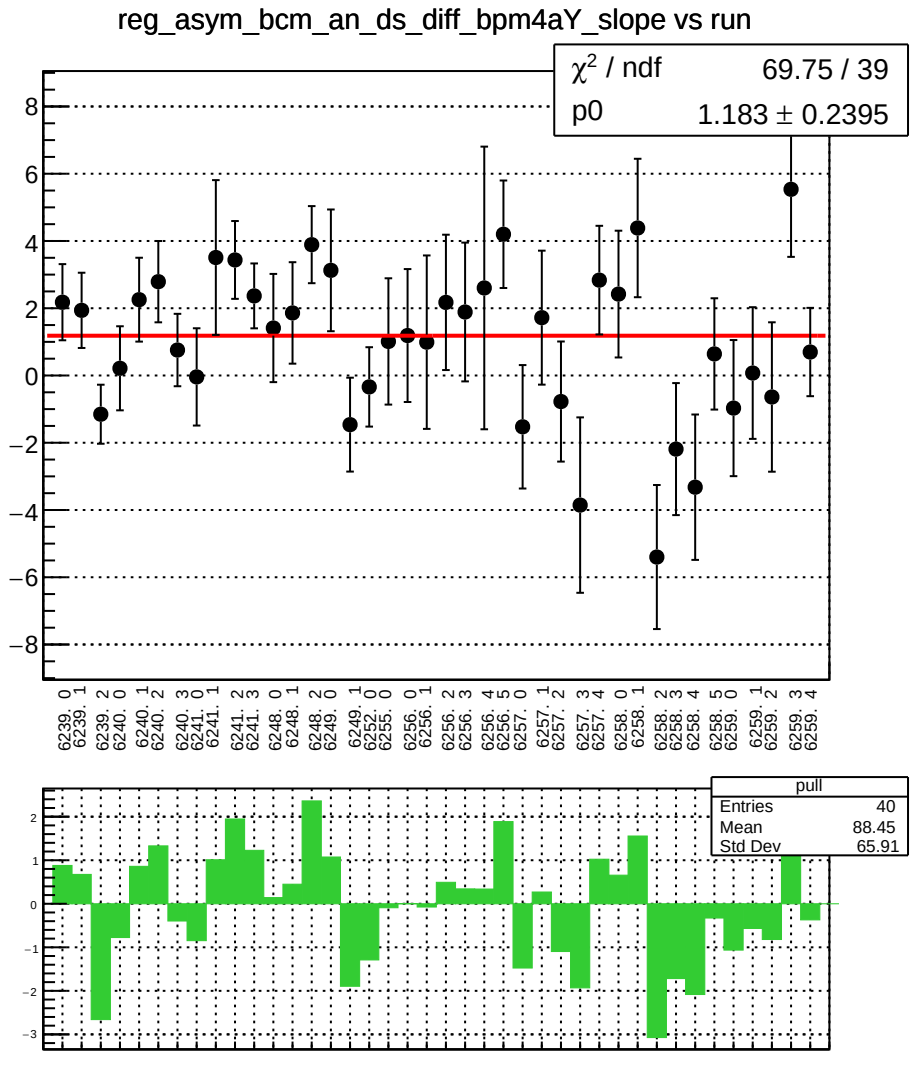

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 75.4 / 39
p0 −1.813 ± 0.2633
pull
Entries 40
Mean 78.87
Std Dev 56.95
pull1D
Entries 40
Mean 0.05983
Std Dev 1.372

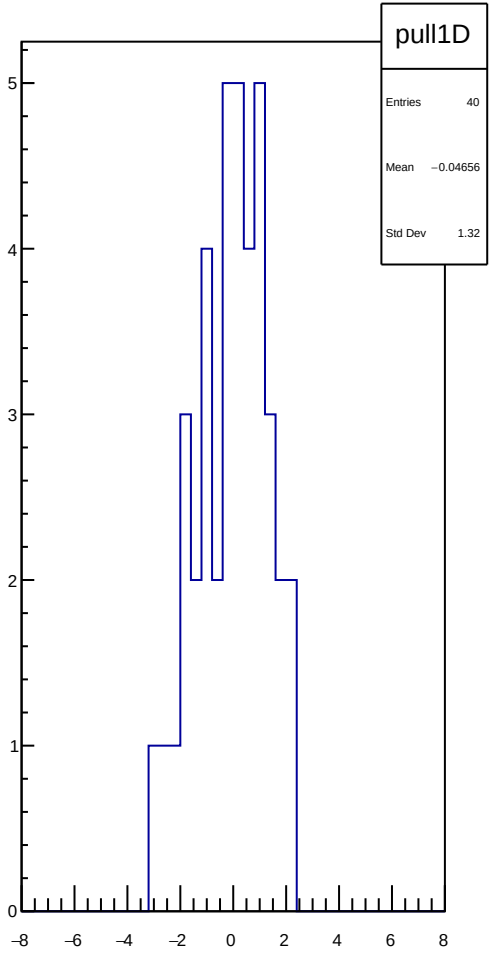

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 41.69 / 39
p0 0.3383 ± 0.01897
pull
Entries 40
Mean 6.07
Std Dev 11.25

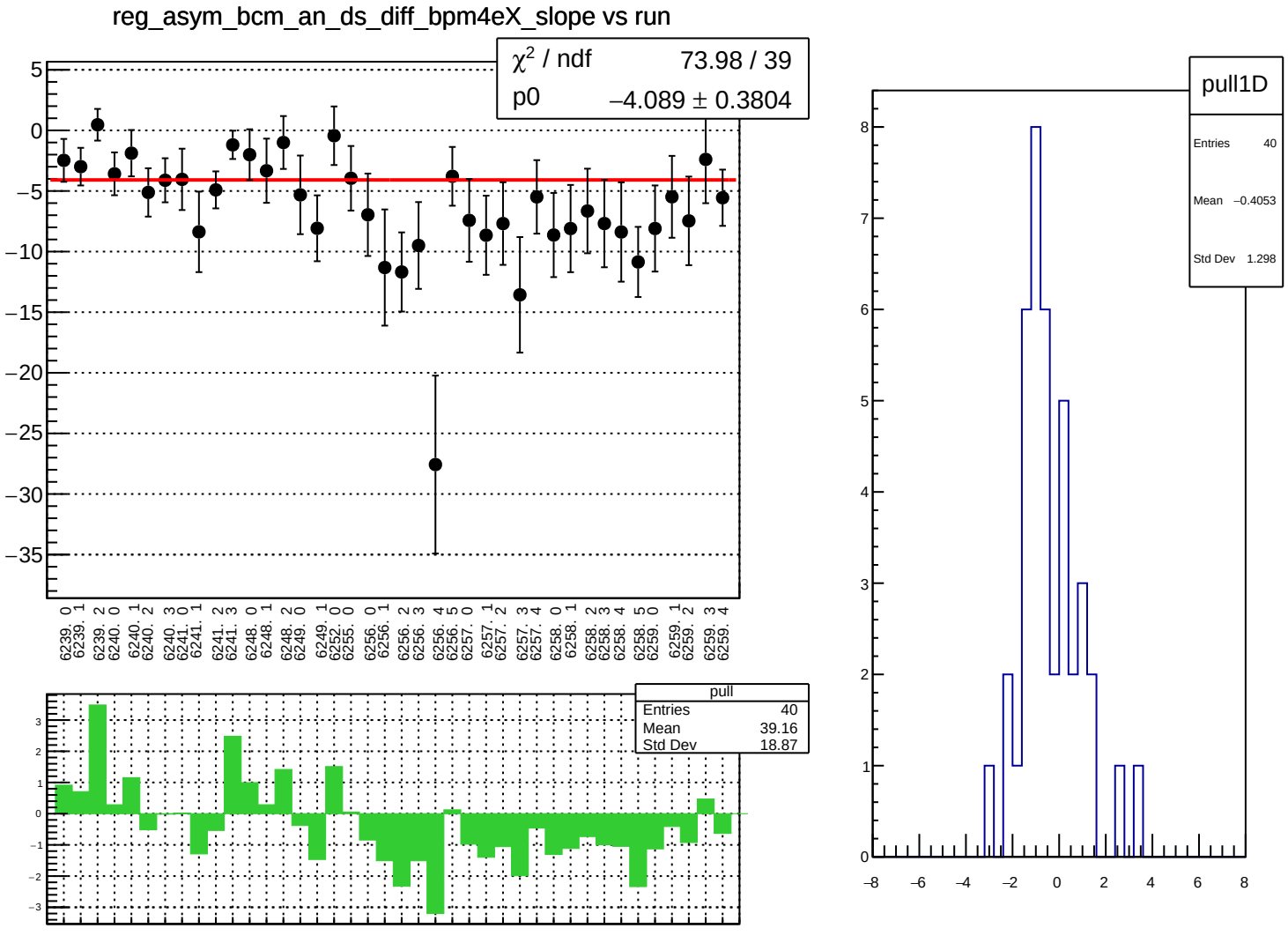

pull1D
Entries 40
Mean 0.09886
Std Dev 1.016

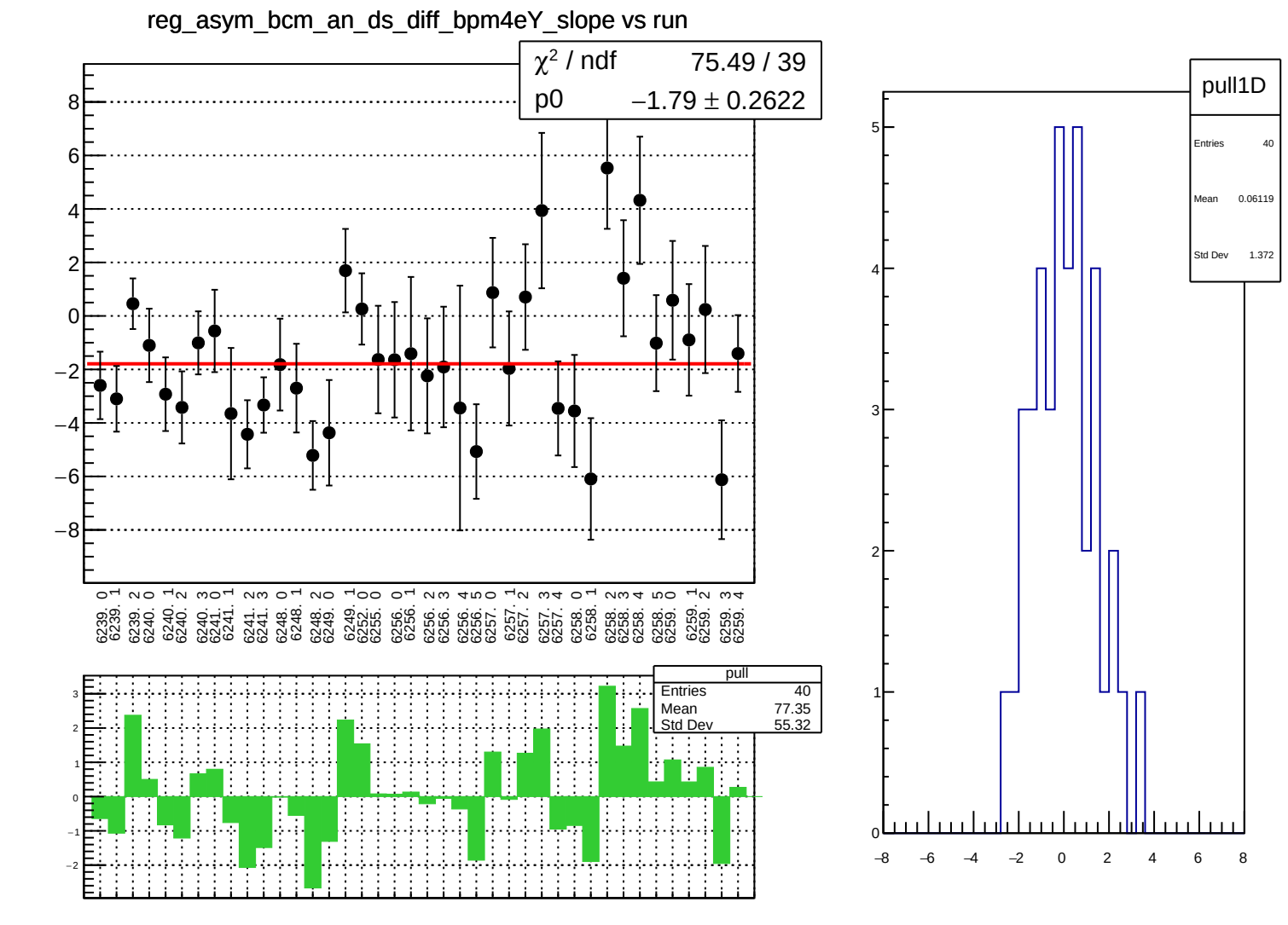

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 66.49 / 39
p0 4.008 ± 0.3296
pull
Entries 40
Mean 38.65
Std Dev 18.38

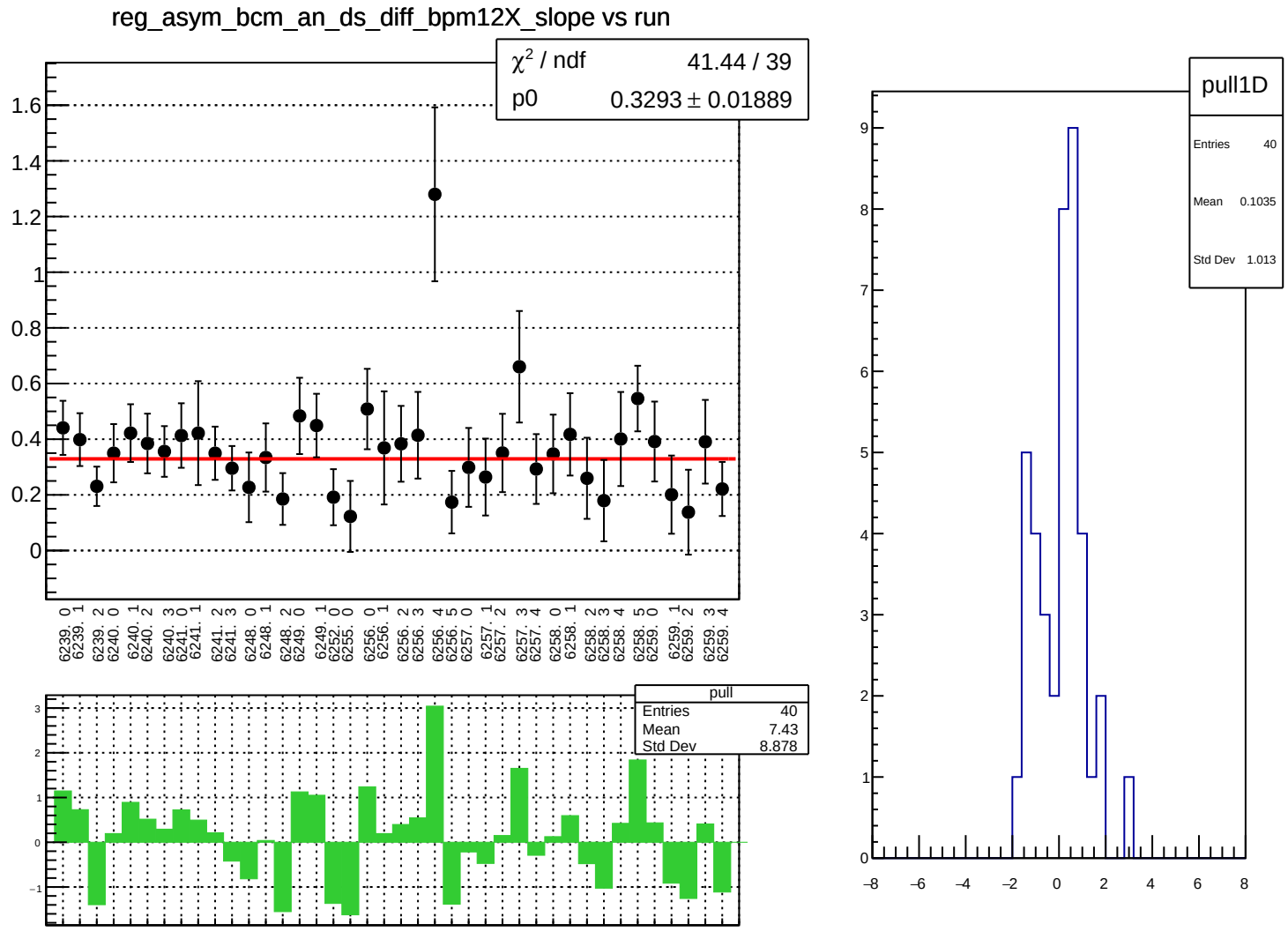

pull1D
Entries 40
Mean 0.3654
Std Dev 1.236

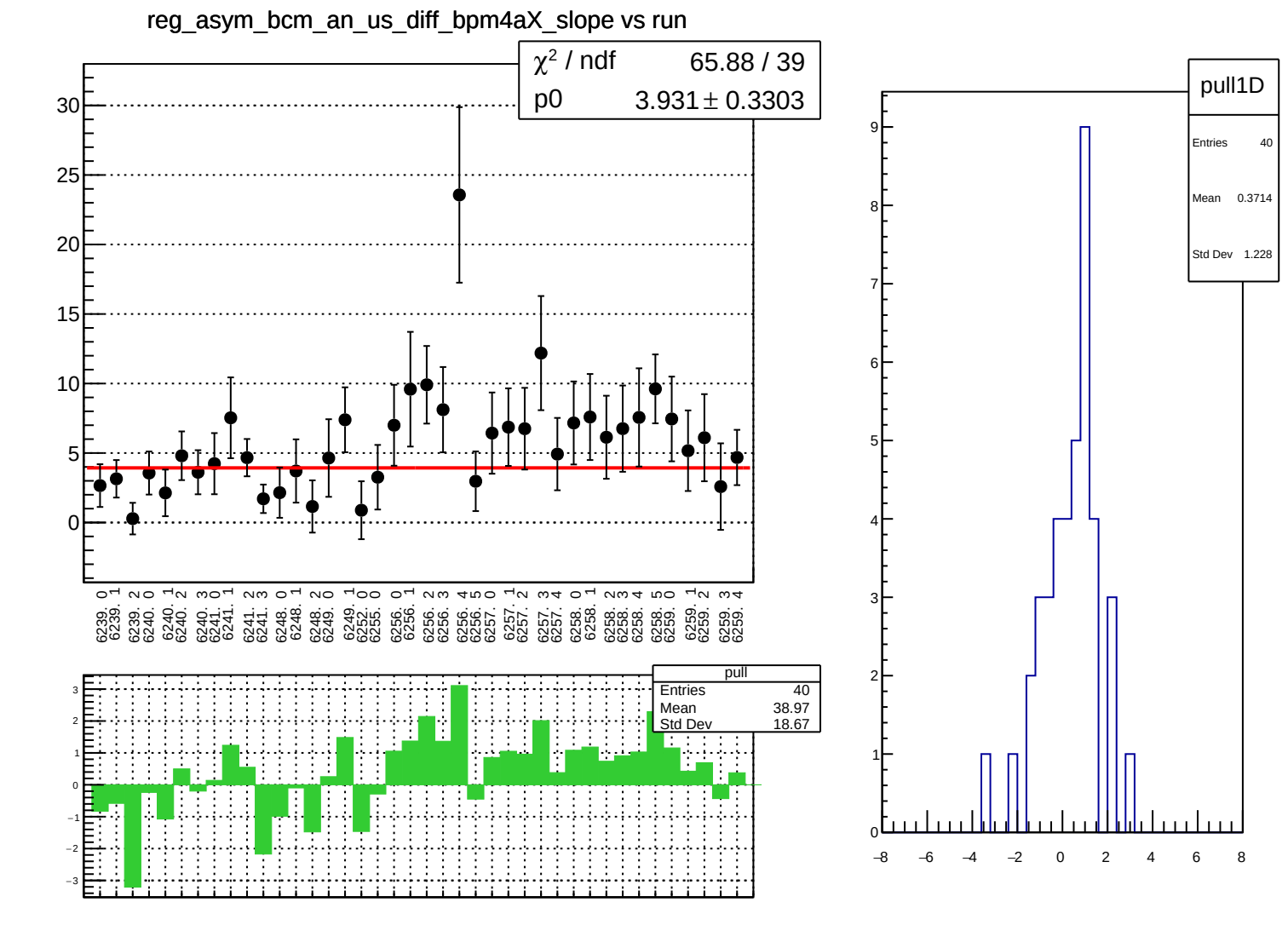

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 69.75 / 39
p0 1.183 ± 0.2395
pull
Entries 40
Mean 88.45
Std Dev 65.91

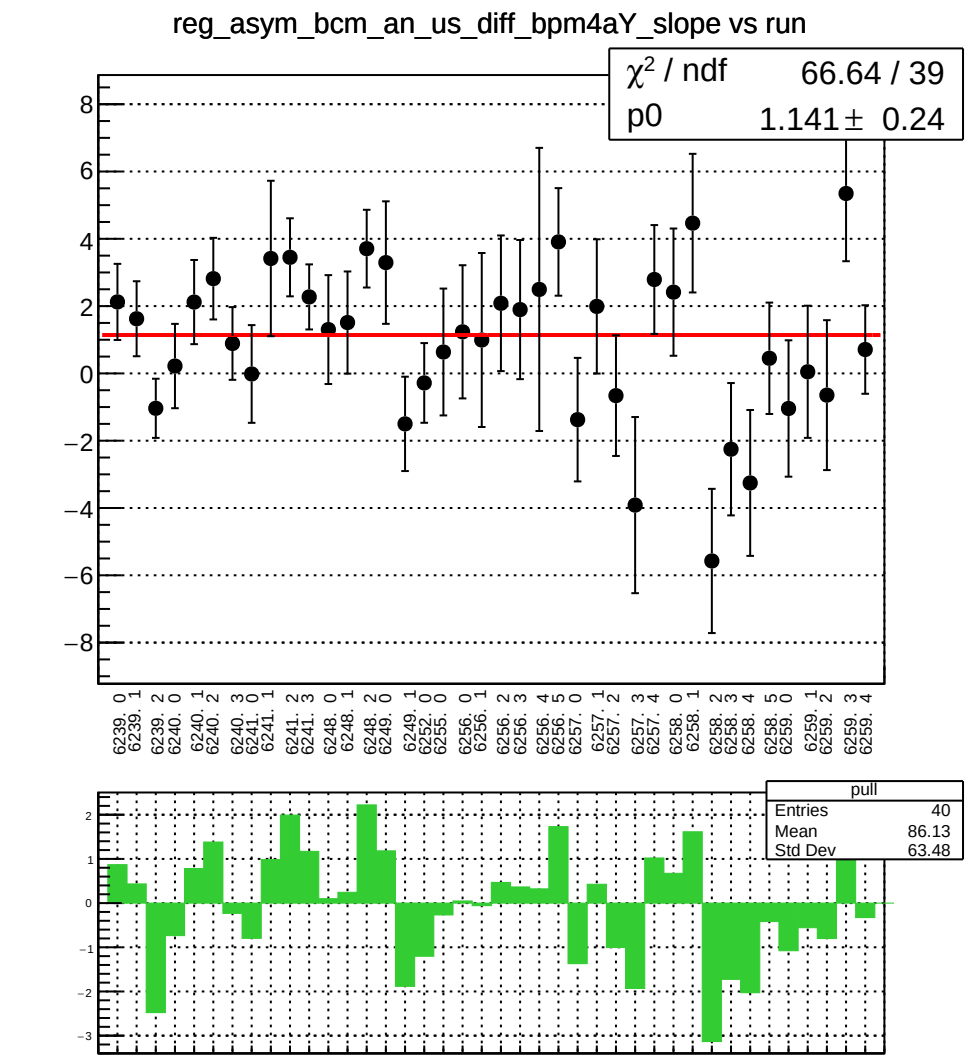

pull1D
Entries 40
Mean −0.04656
Std Dev 1.32

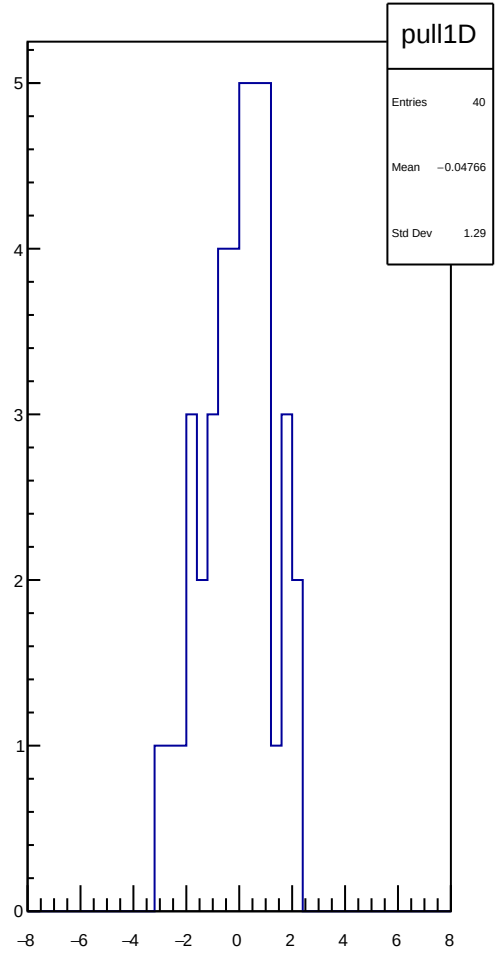

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 73.98 / 39
p0 −4.089 ± 0.3804
pull
Entries 40
Mean 39.16
Std Dev 18.87
pull1D
Entries 40
Mean −0.4053
Std Dev 1.298

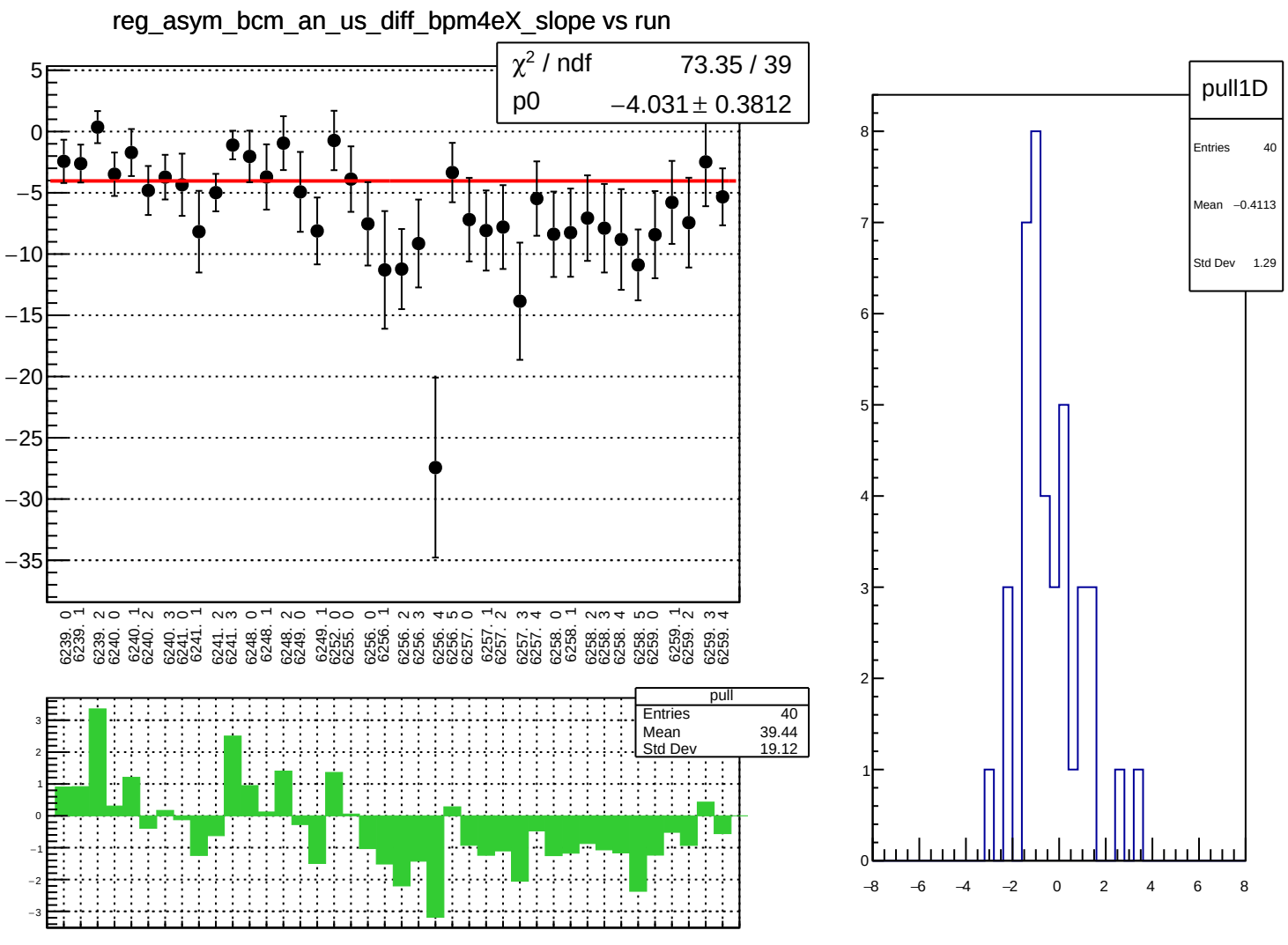

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 75.49 / 39
p0 −1.79 ± 0.2622
pull
Entries 40
Mean 77.35
Std Dev 55.32
pull1D
Entries 40
Mean 0.06119
Std Dev 1.372

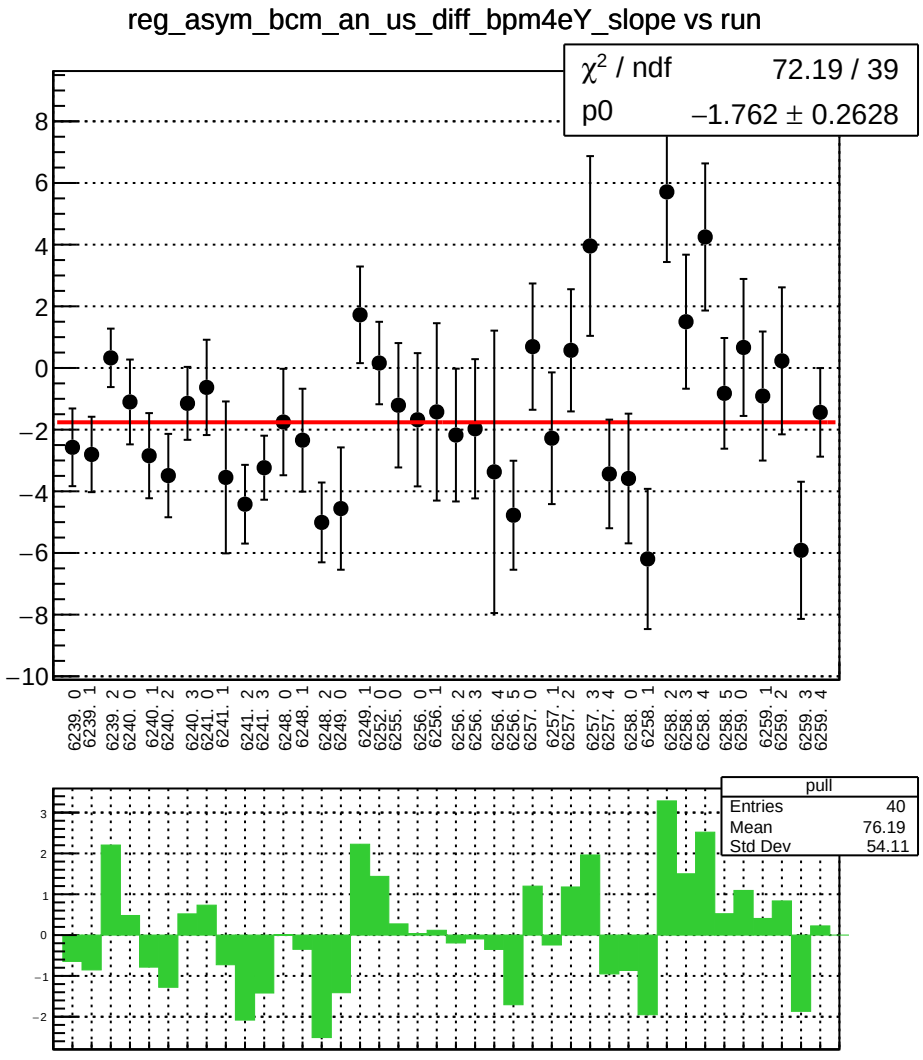

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 41.44 / 39
p0 0.3293 ± 0.01889
pull
Entries 40
Mean 7.43
Std Dev 8.878
pull1D
Entries 40
Mean 0.1035
Std Dev 1.013

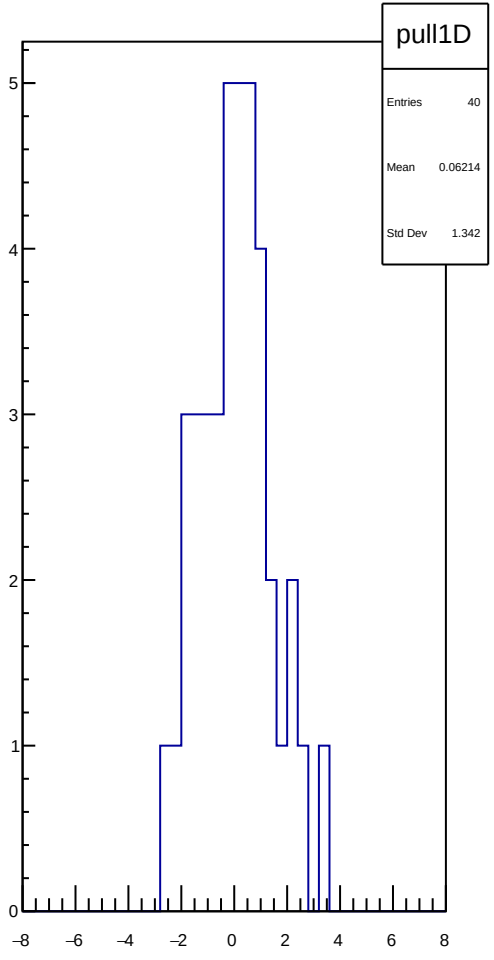

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 65.88 / 39
p0 3.931 ± 0.3303
pull
Entries 40
Mean 38.97
Std Dev 18.67
pull1D
Entries 40
Mean 0.3714
Std Dev 1.228

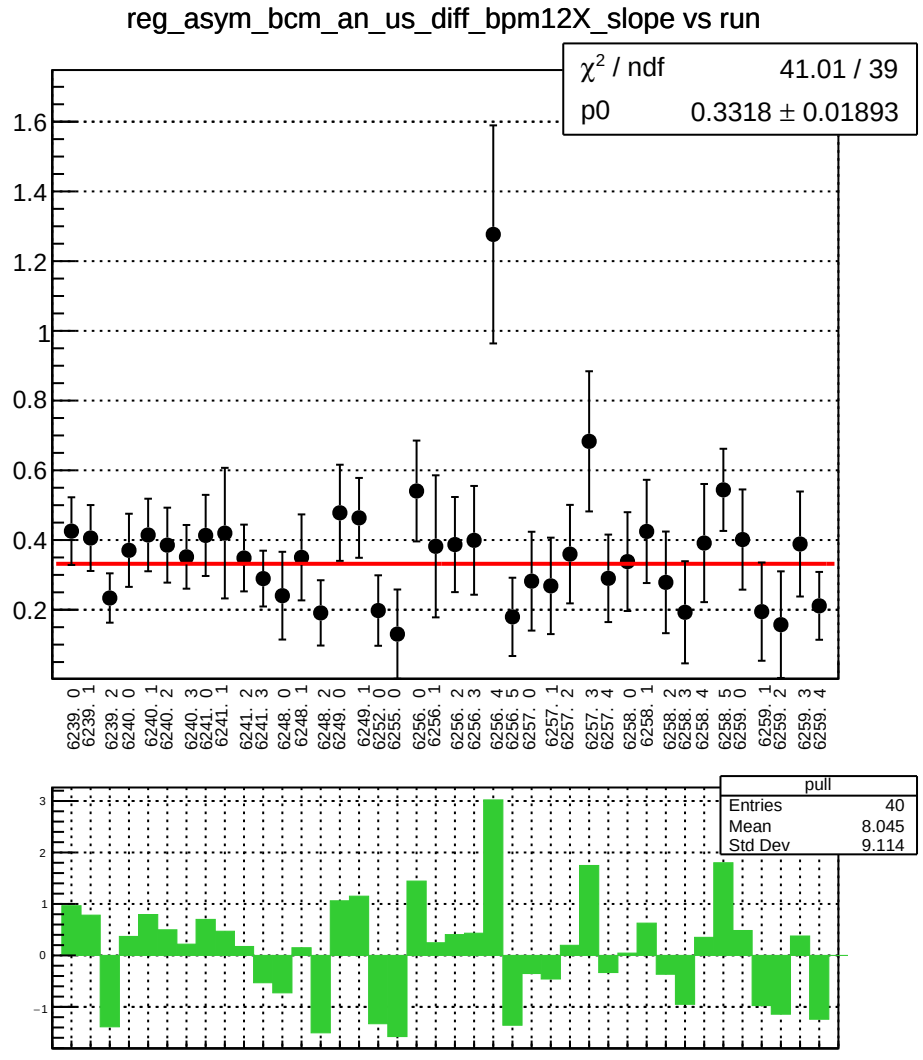

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 66.64 / 39
p0 1.141 ± 0.24
pull
Entries 40
Mean 86.13
Std Dev 63.48

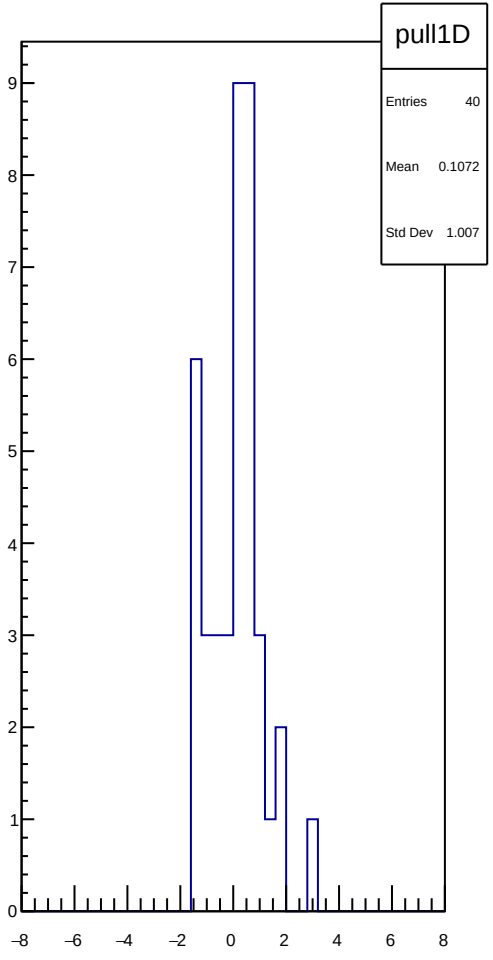

pull1D
Entries 40
Mean −0.04766
Std Dev 1.29

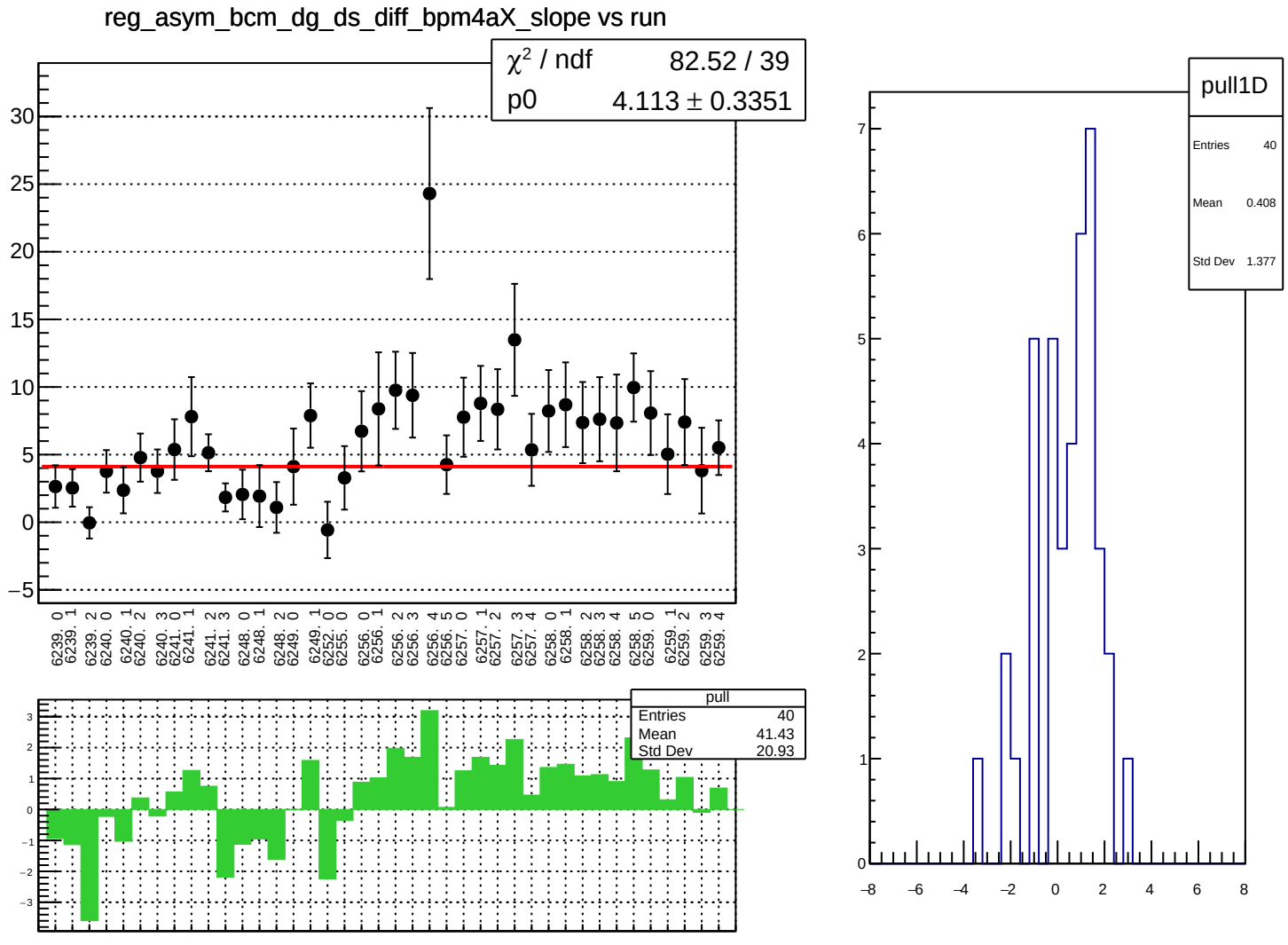

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 73.35 / 39
p0 −4.031 ± 0.3812
pull
Entries 40
Mean 39.44
Std Dev 19.12
pull1D
Entries 40
Mean −0.4113
Std Dev 1.29

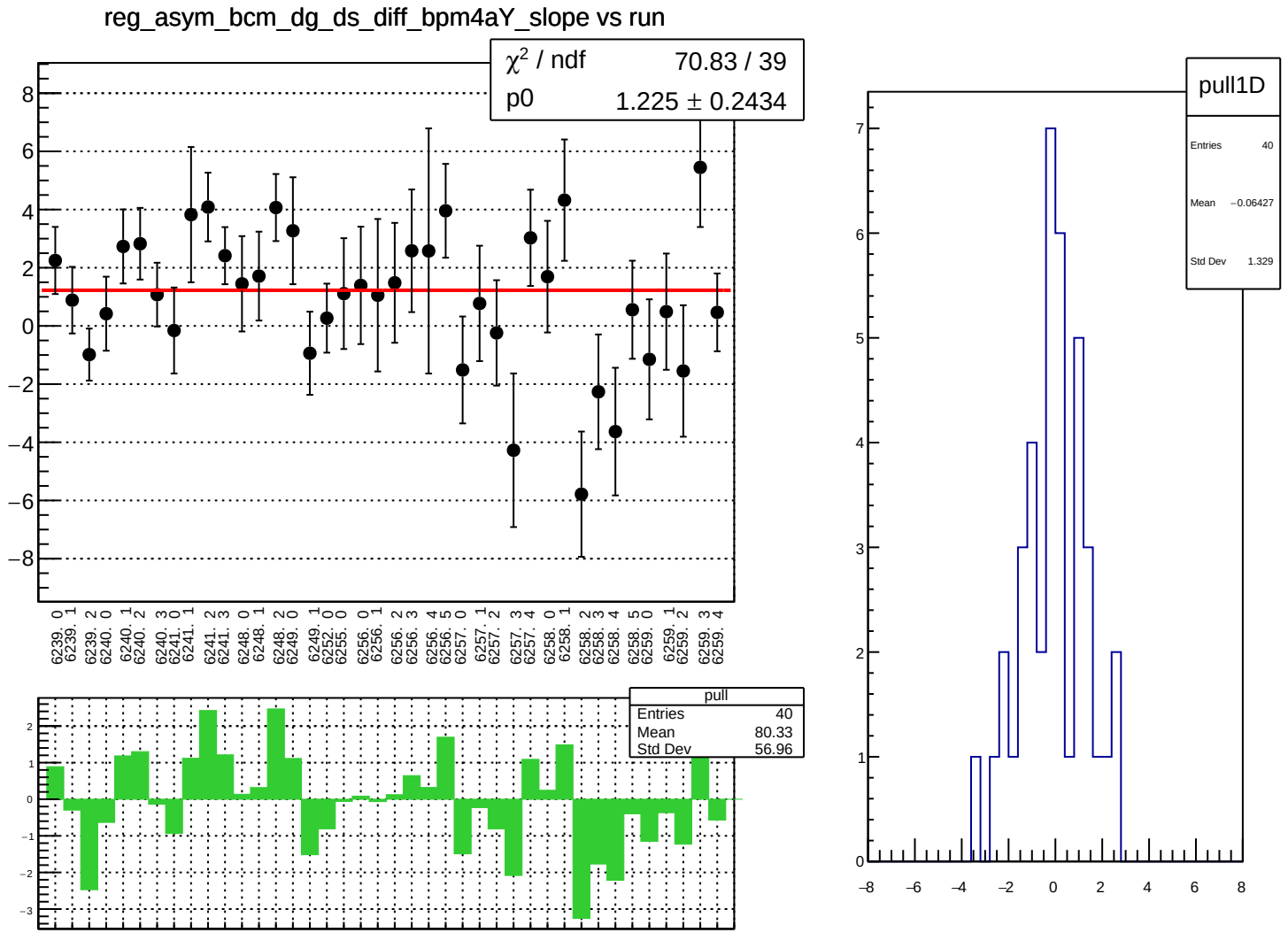

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 72.19 / 39
p0 −1.762 ± 0.2628
pull
Entries 40
Mean 76.19
Std Dev 54.11

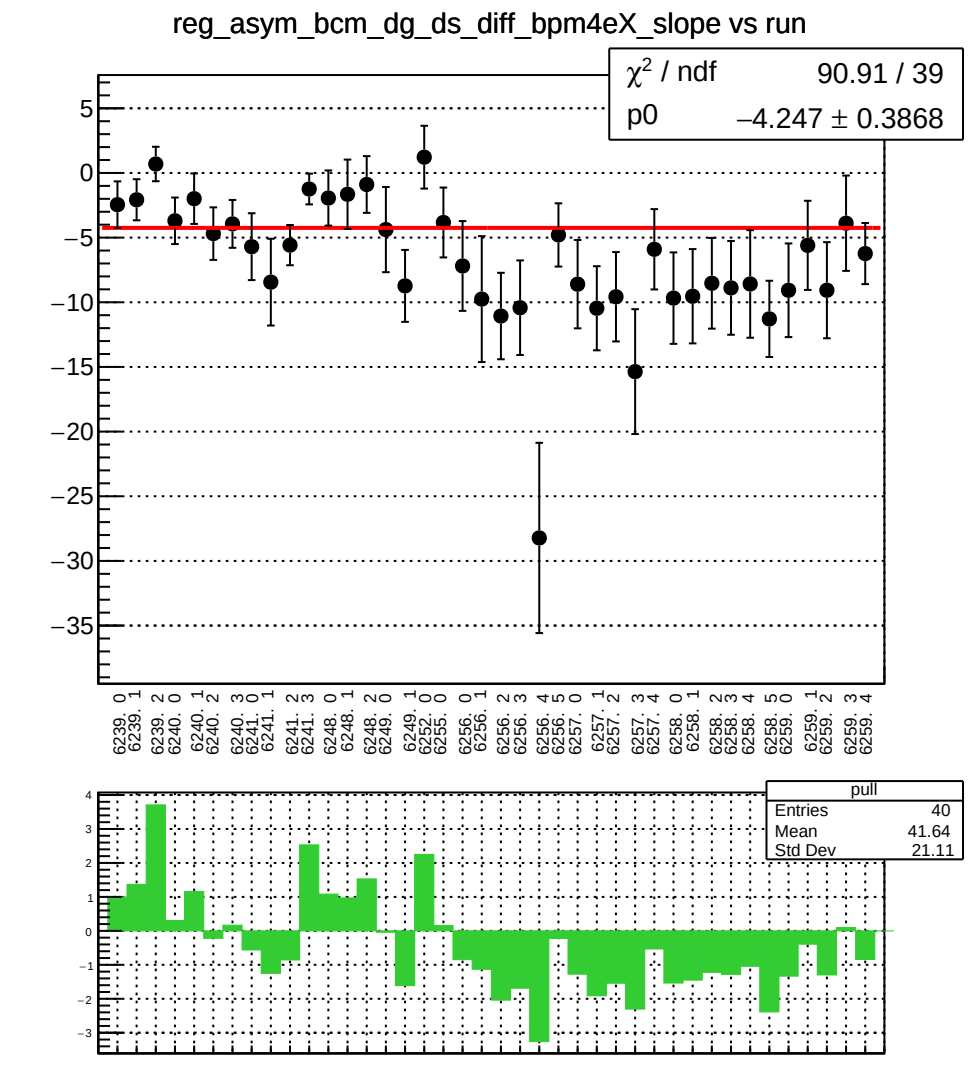

pull1D
Entries 40
Mean 0.06214
Std Dev 1.342

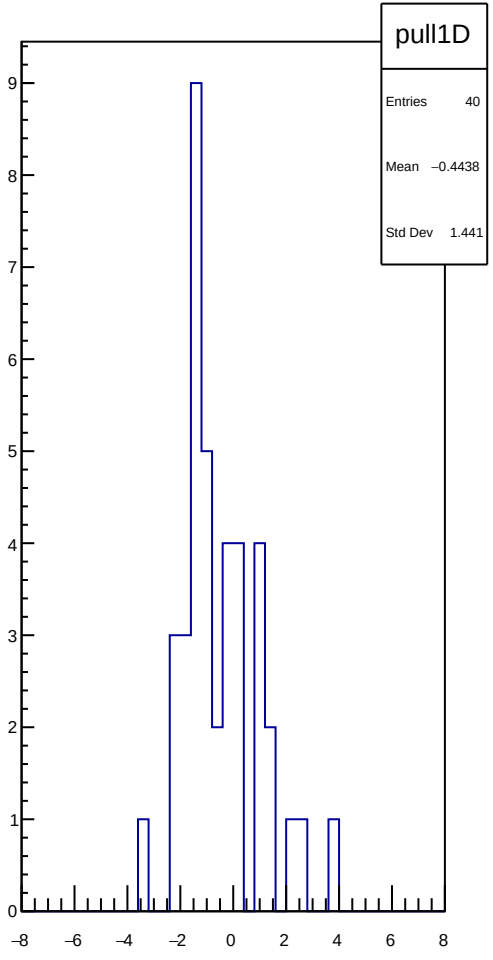

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 41.01 / 39
p0 0.3318 ± 0.01893
pull
Entries 40
Mean 8.045
Std Dev 9.114

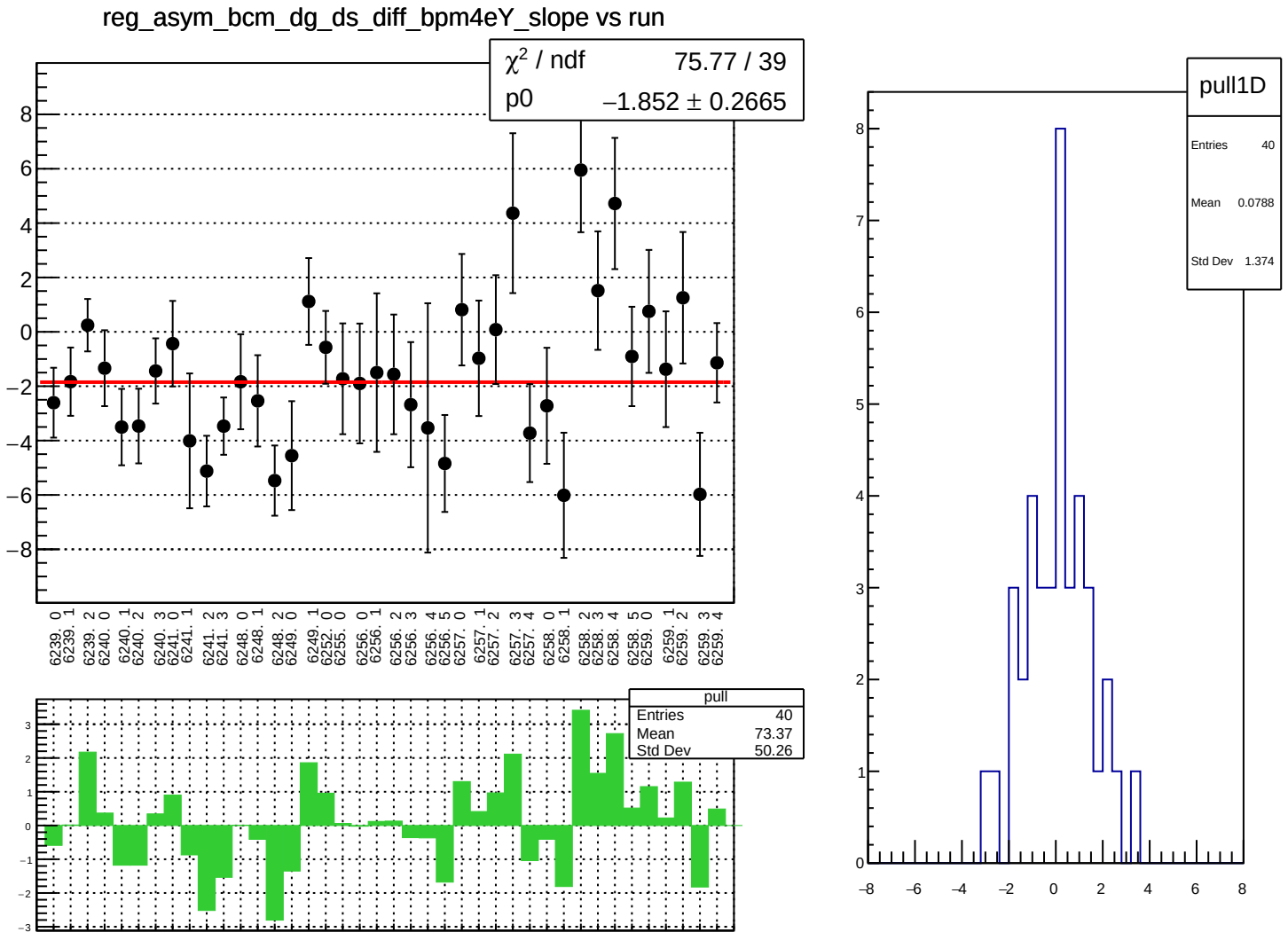

pull1D
Entries 40
Mean 0.1072
Std Dev 1.007

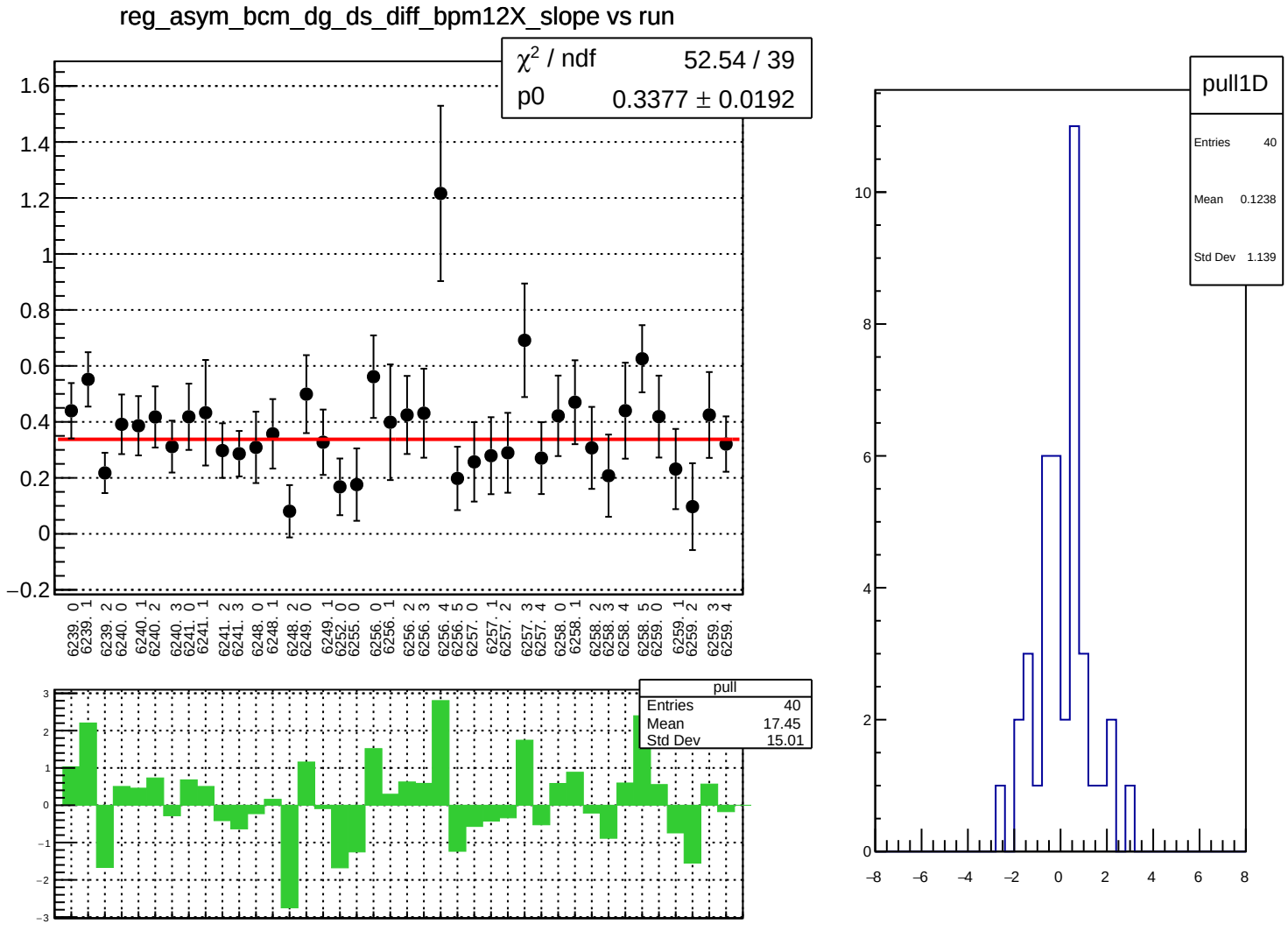

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 82.52 / 39
p0 4.113 ± 0.3351
pull
Entries 40
Mean 41.43
Std Dev 20.93
pull1D
Entries 40
Mean 0.408
Std Dev 1.377

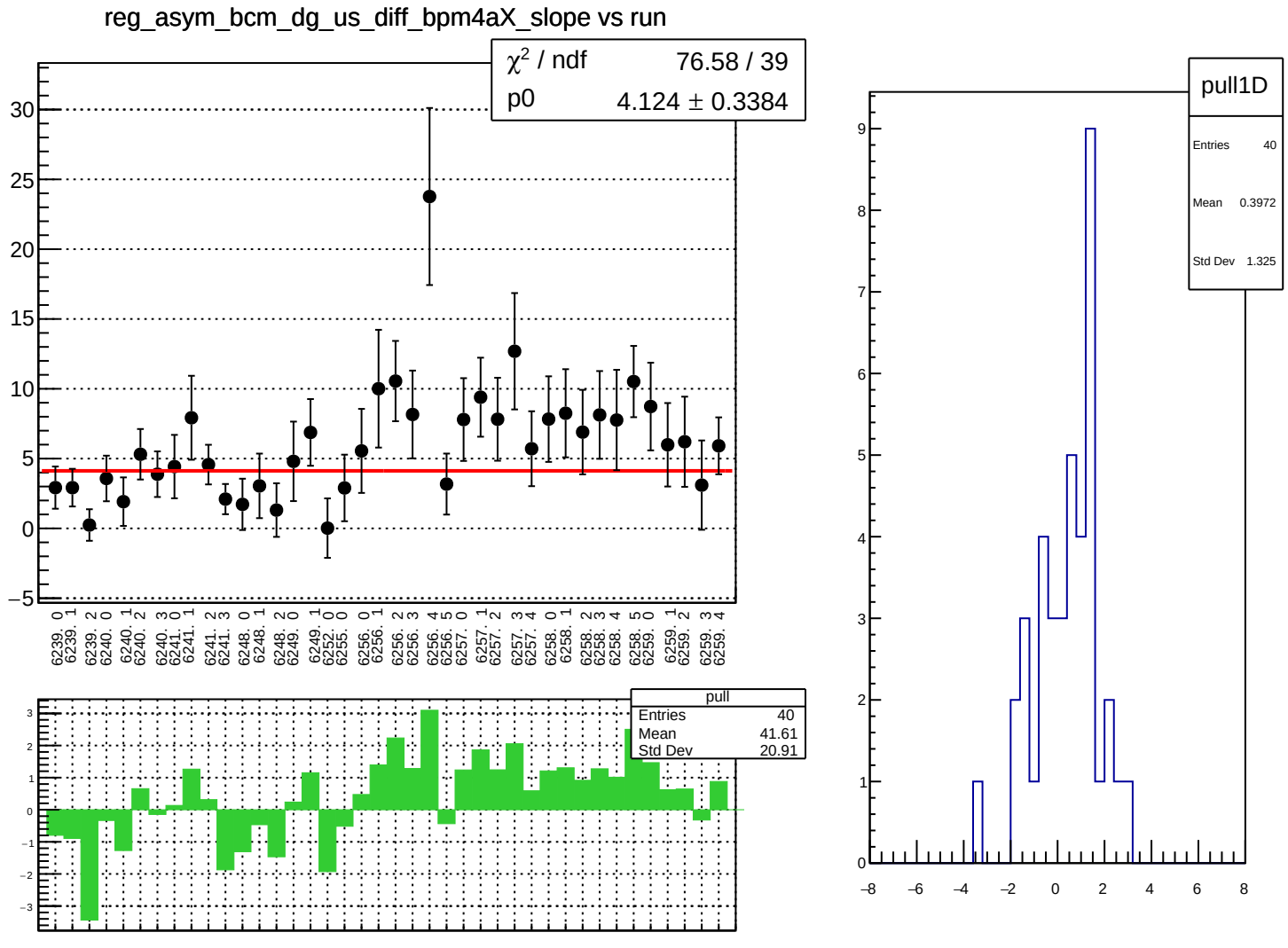

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 70.83 / 39
p0 1.225 ± 0.2434
pull
Entries 40
Mean 80.33
Std Dev 56.96
pull1D
Entries 40
Mean −0.06427
Std Dev 1.329

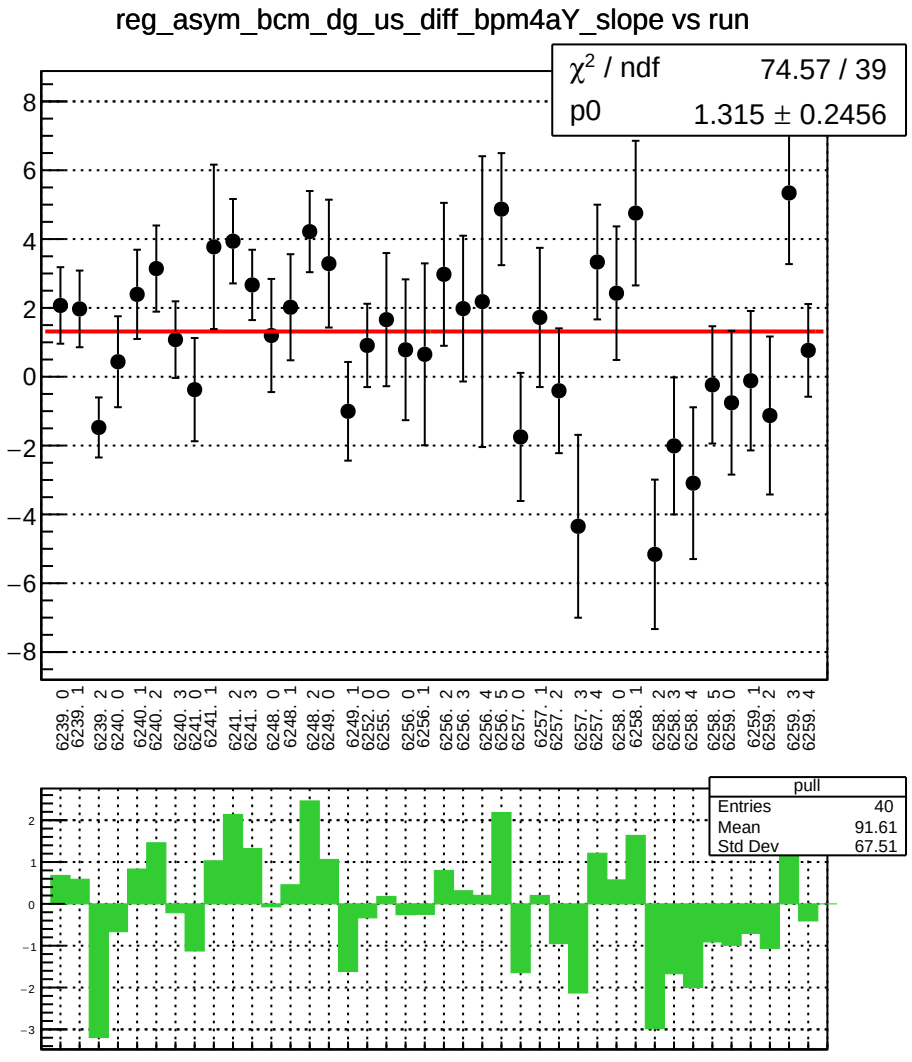

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 90.91 / 39
p0 −4.247 ± 0.3868
pull
Entries 40
Mean 41.64
Std Dev 21.11

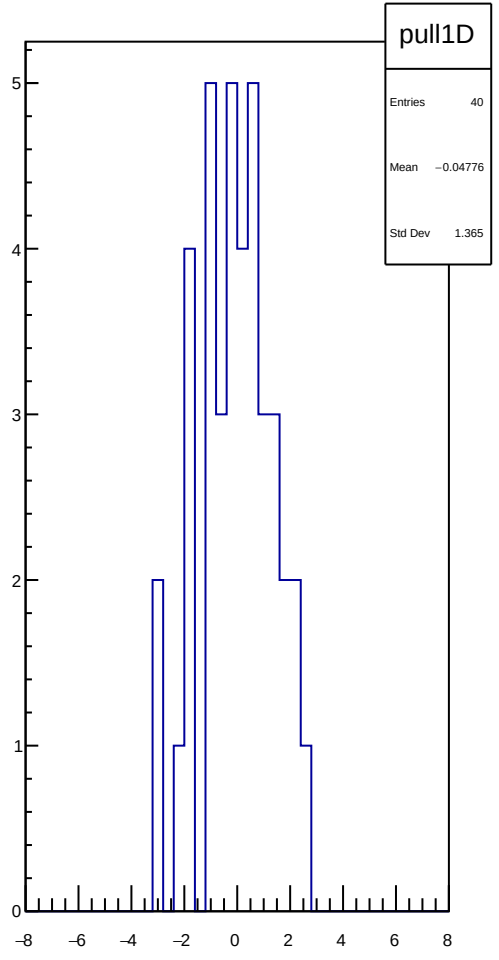

pull1D
Entries 40
Mean −0.4438
Std Dev 1.441

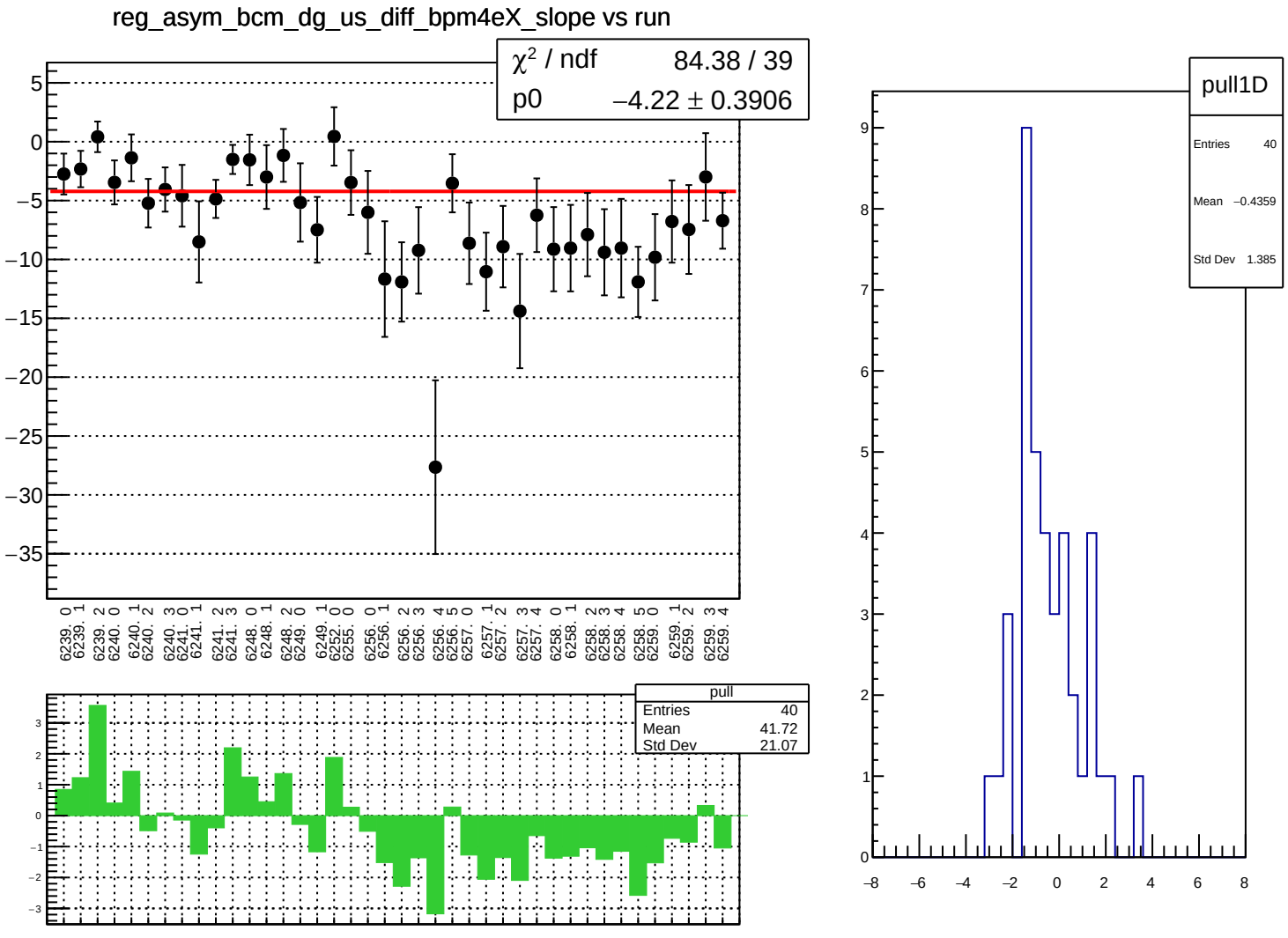

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 75.77 / 39
p0 −1.852 ± 0.2665
pull
Entries 40
Mean 73.37
Std Dev 50.26
pull1D
Entries 40
Mean 0.0788
Std Dev 1.374

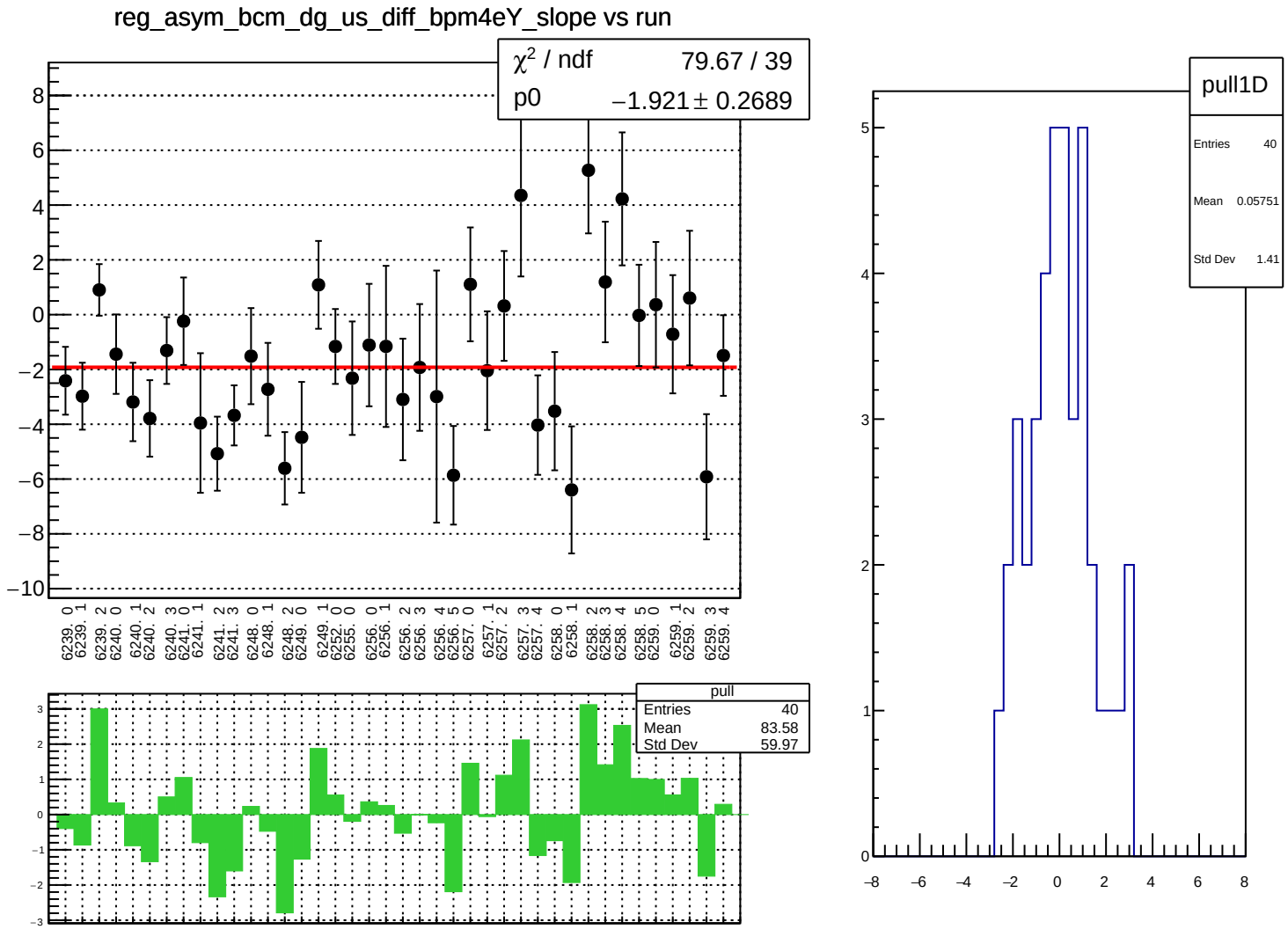

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 52.54 / 39
p0 0.3377 ± 0.0192
pull
Entries 40
Mean 17.45
Std Dev 15.01
pull1D
Entries 40
Mean 0.1238
Std Dev 1.139

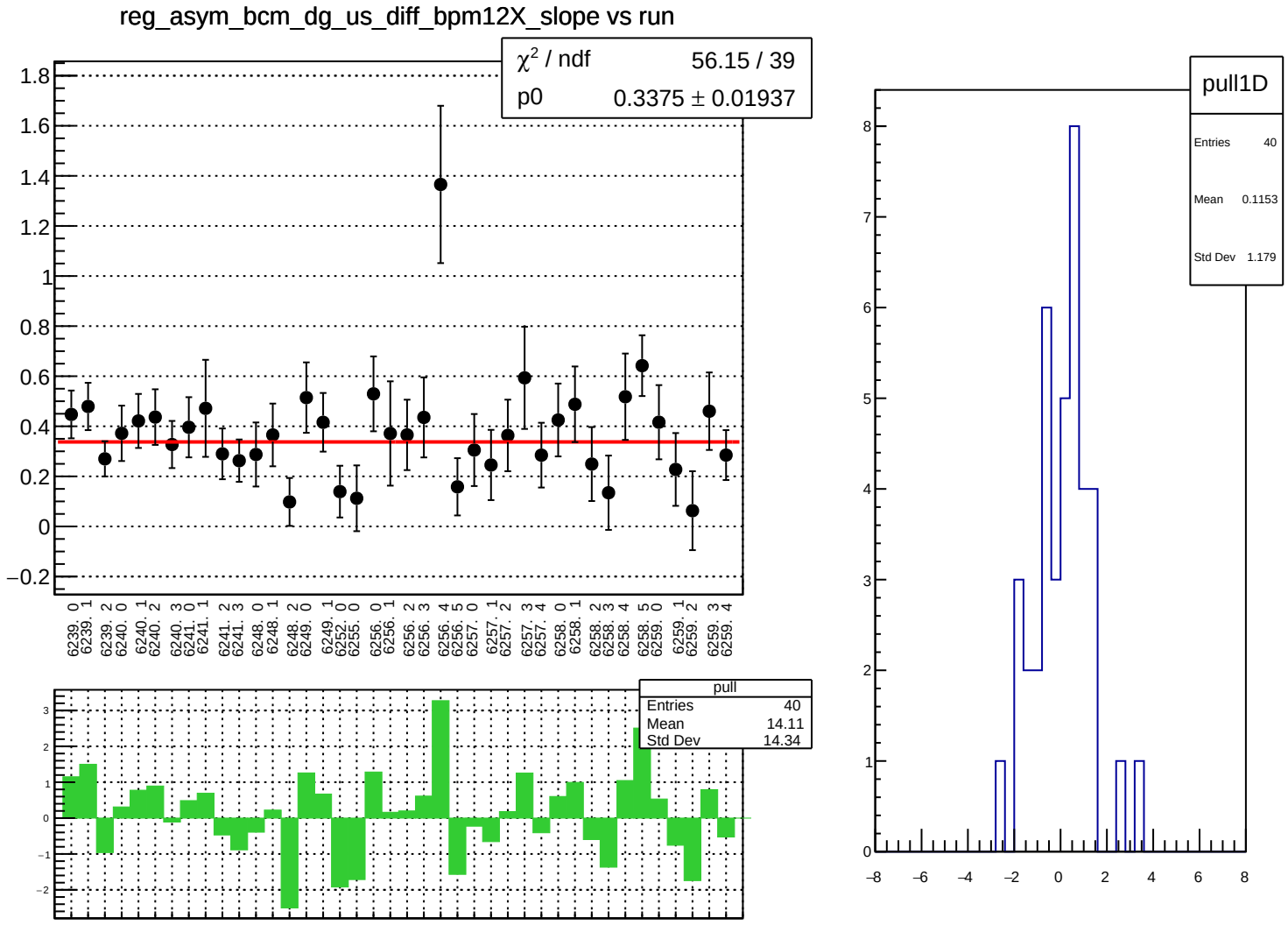

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 76.58 / 39
p0 4.124 ± 0.3384
pull
Entries 40
Mean 41.61
Std Dev 20.91
pull1D
Entries 40
Mean 0.3972
Std Dev 1.325

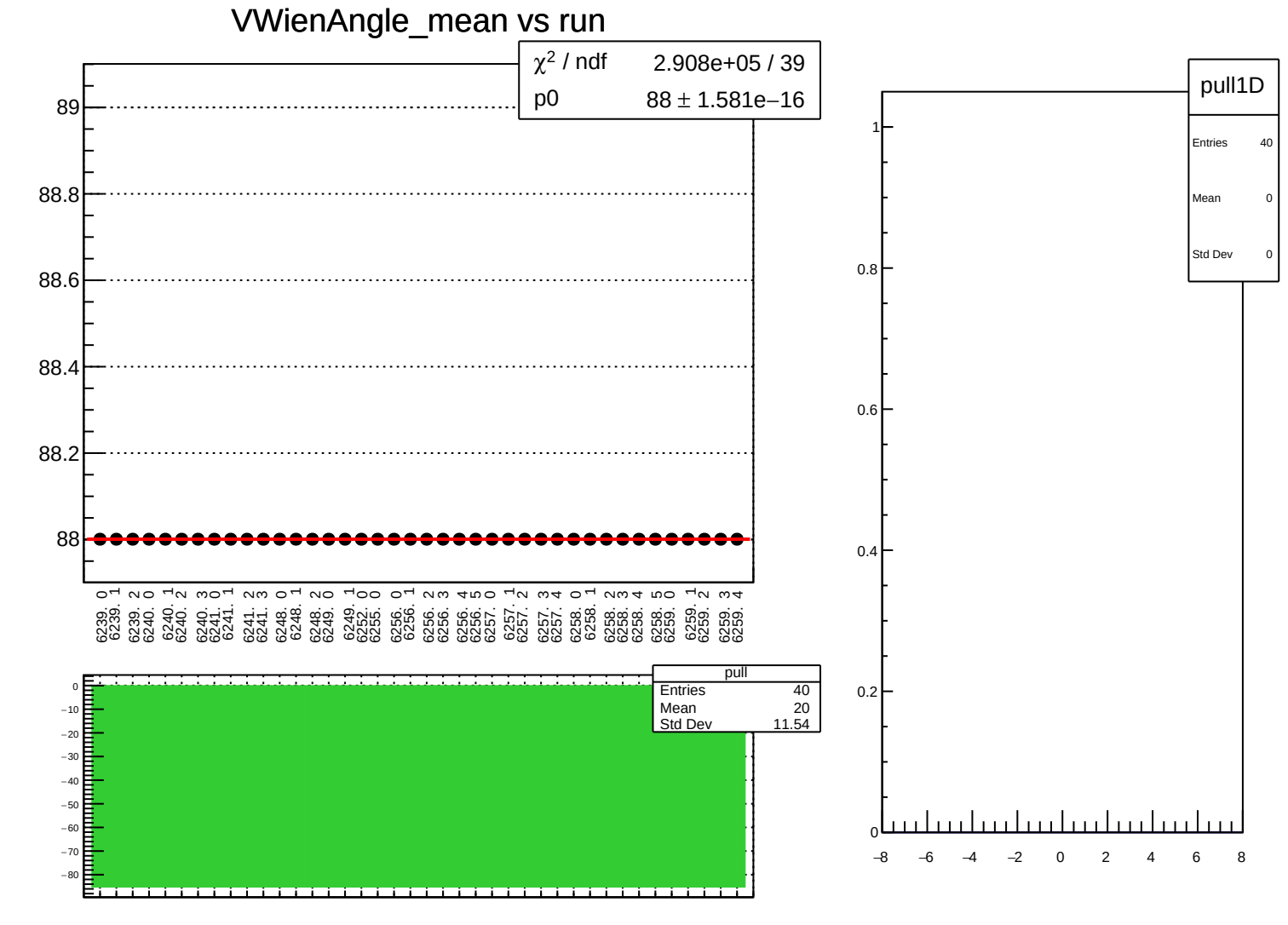

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 74.57 / 39
p0 1.315 ± 0.2456
pull
Entries 40
Mean 91.61
Std Dev 67.51

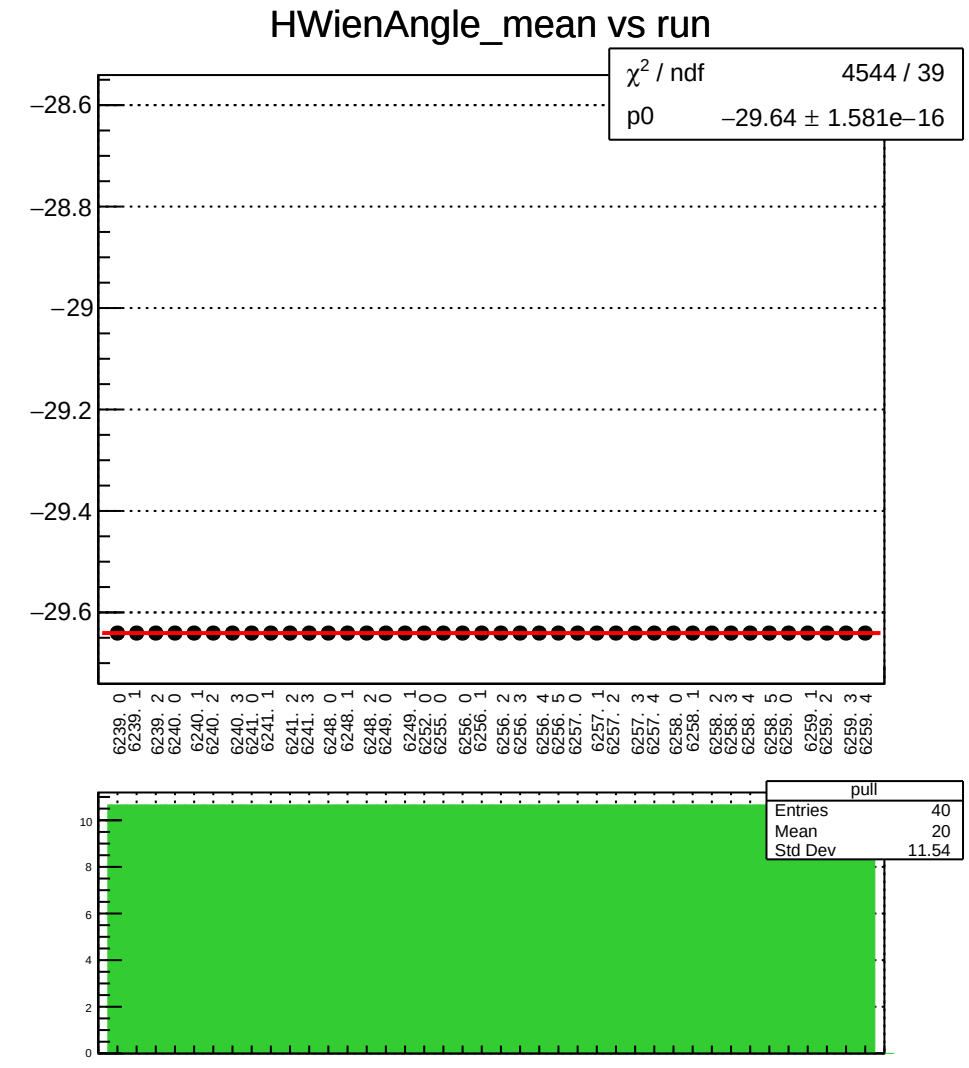

pull1D
Entries 40
Mean −0.04776
Std Dev 1.365

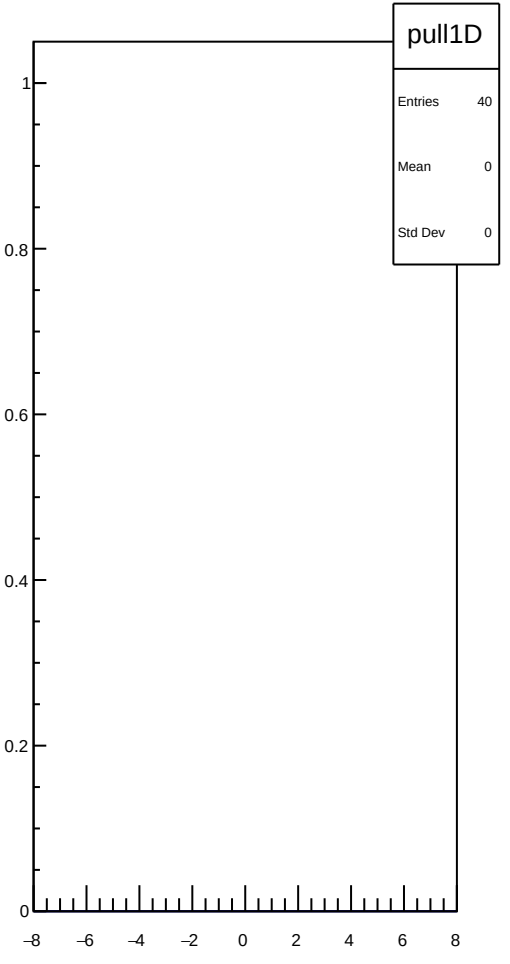

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 84.38 / 39
p0 −4.22 ± 0.3906
pull
Entries 40
Mean 41.72
Std Dev 21.07
pull1D
Entries 40
Mean −0.4359
Std Dev 1.385

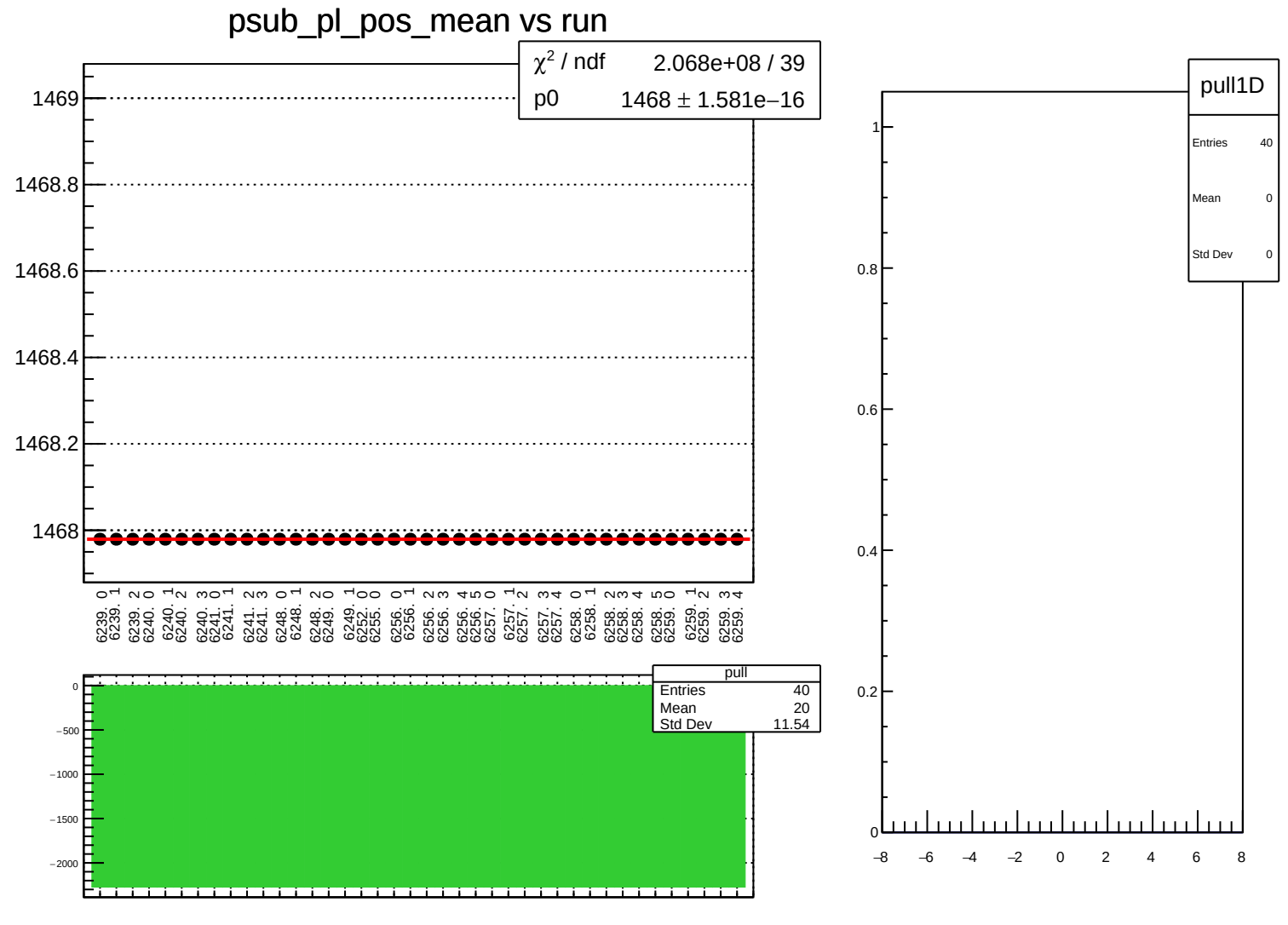

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 79.67 / 39
p0 −1.921 ± 0.2689
pull
Entries 40
Mean 83.58
Std Dev 59.97
pull1D
Entries 40
Mean 0.05751
Std Dev 1.41

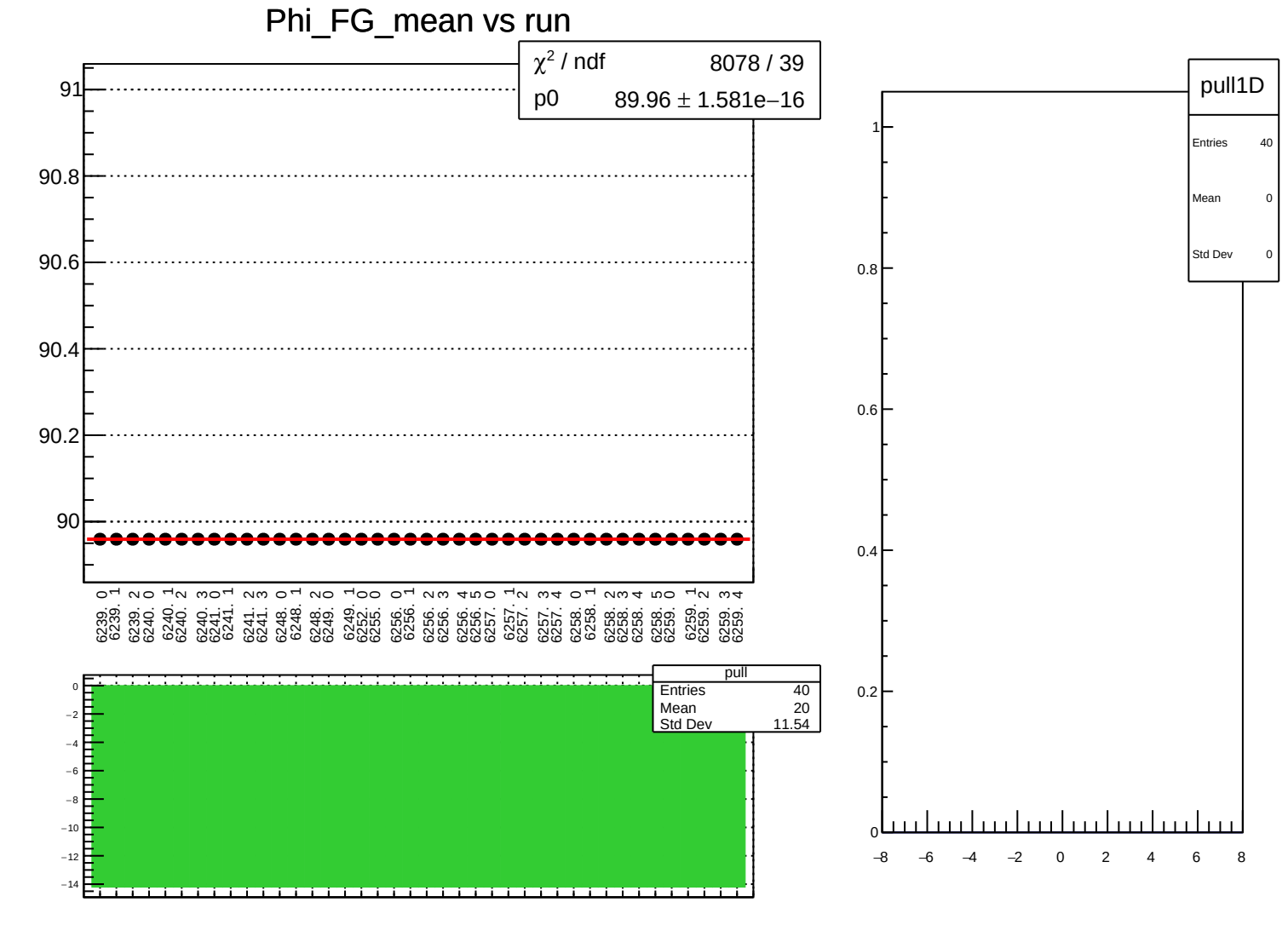

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 56.15 / 39
p0 0.3375 ± 0.01937
pull
Entries 40
Mean 14.11
Std Dev 14.34
pull1D
Entries 40
Mean 0.1153
Std Dev 1.179

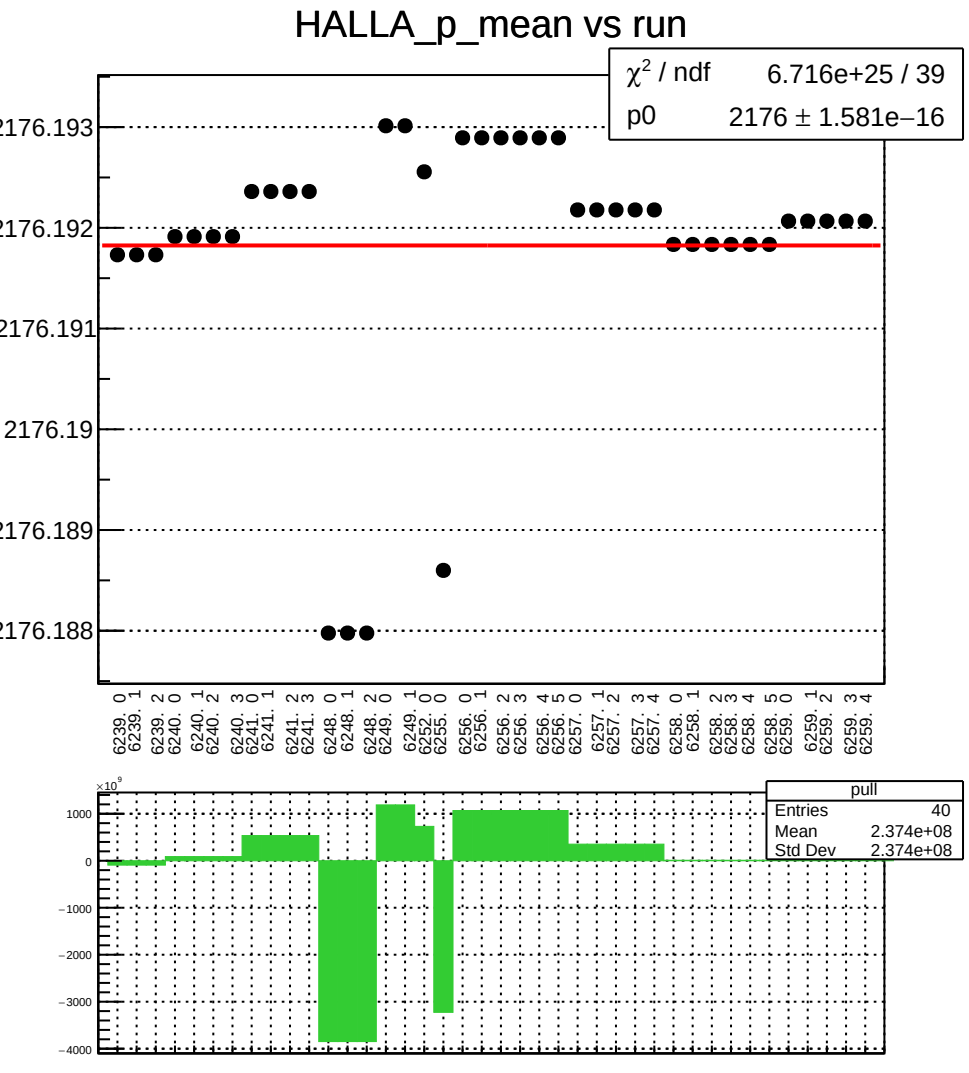

VWienAngle_mean vs run
χ² / ndf 2.908e+05 / 39
p0 88 ± 1.581e−16
89
88.8
88.6
88.4
88.2
88
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

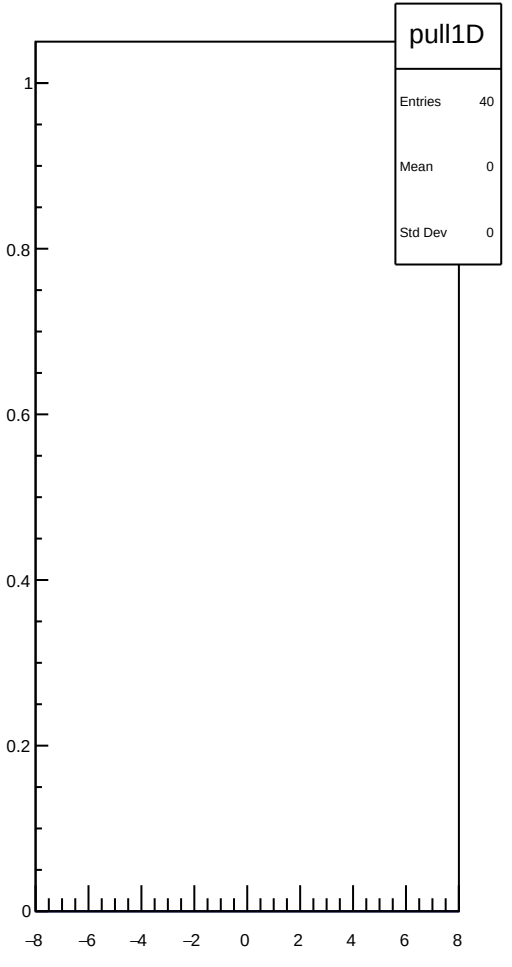

HWienAngle_mean vs run
χ² / ndf 4544 / 39
p0 −29.64 ± 1.581e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
2
4
6
8
10

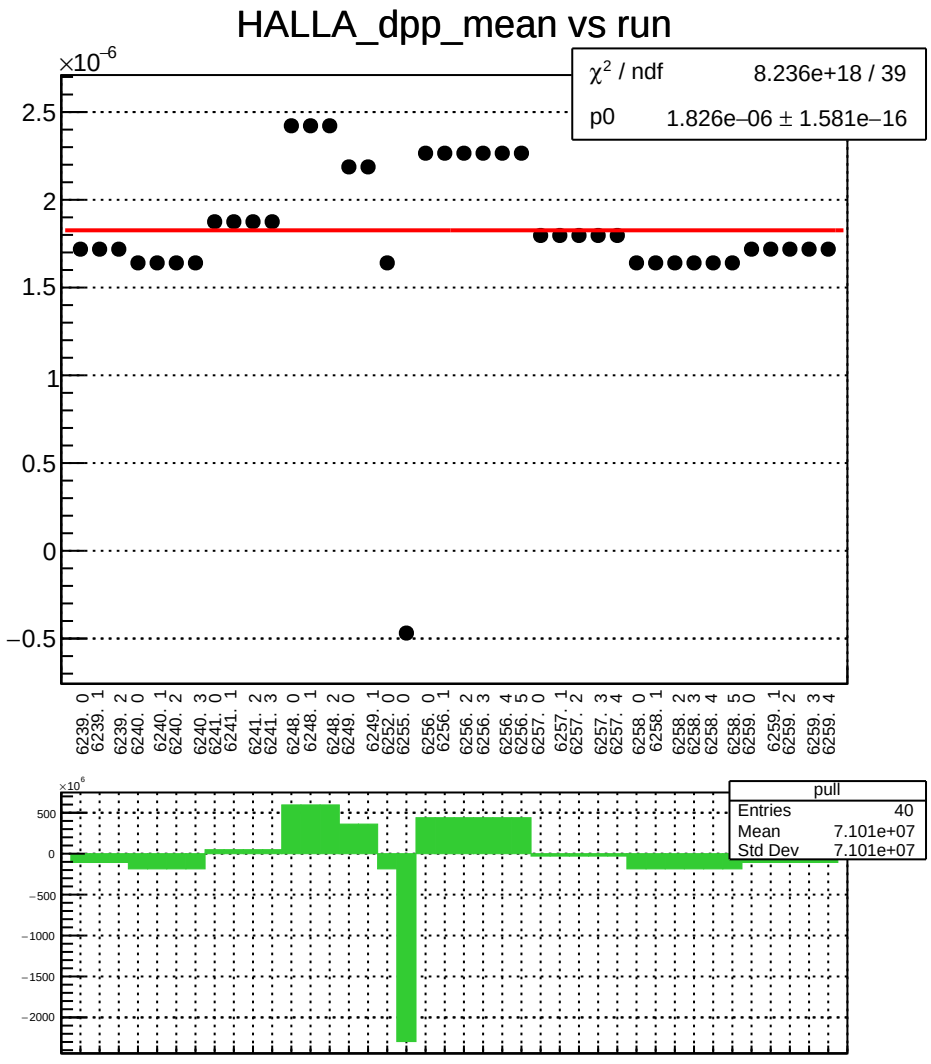

pull1D
Entries 40
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

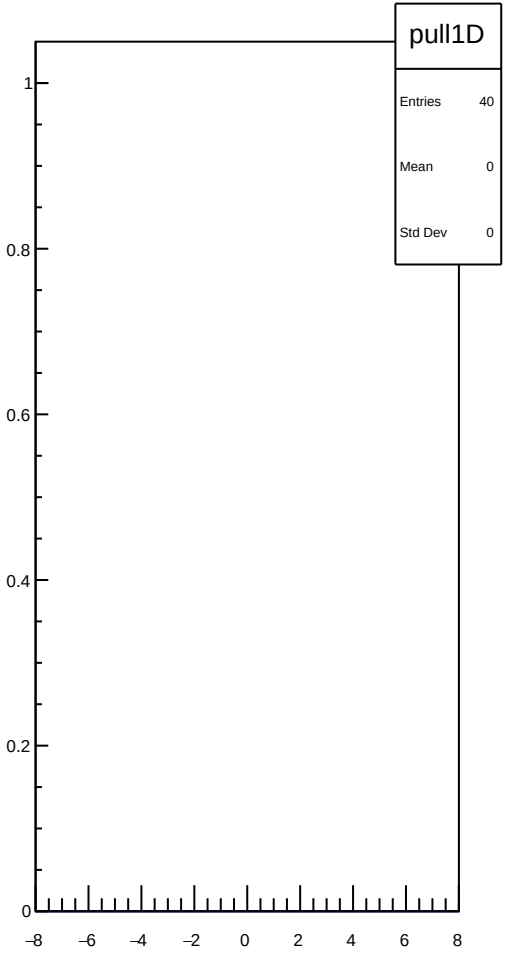

psub_pl_pos_mean vs run
χ² / ndf 2.068e+08 / 39
p0 1468 ± 1.581e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
−500
−1000
−1500
−2000
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

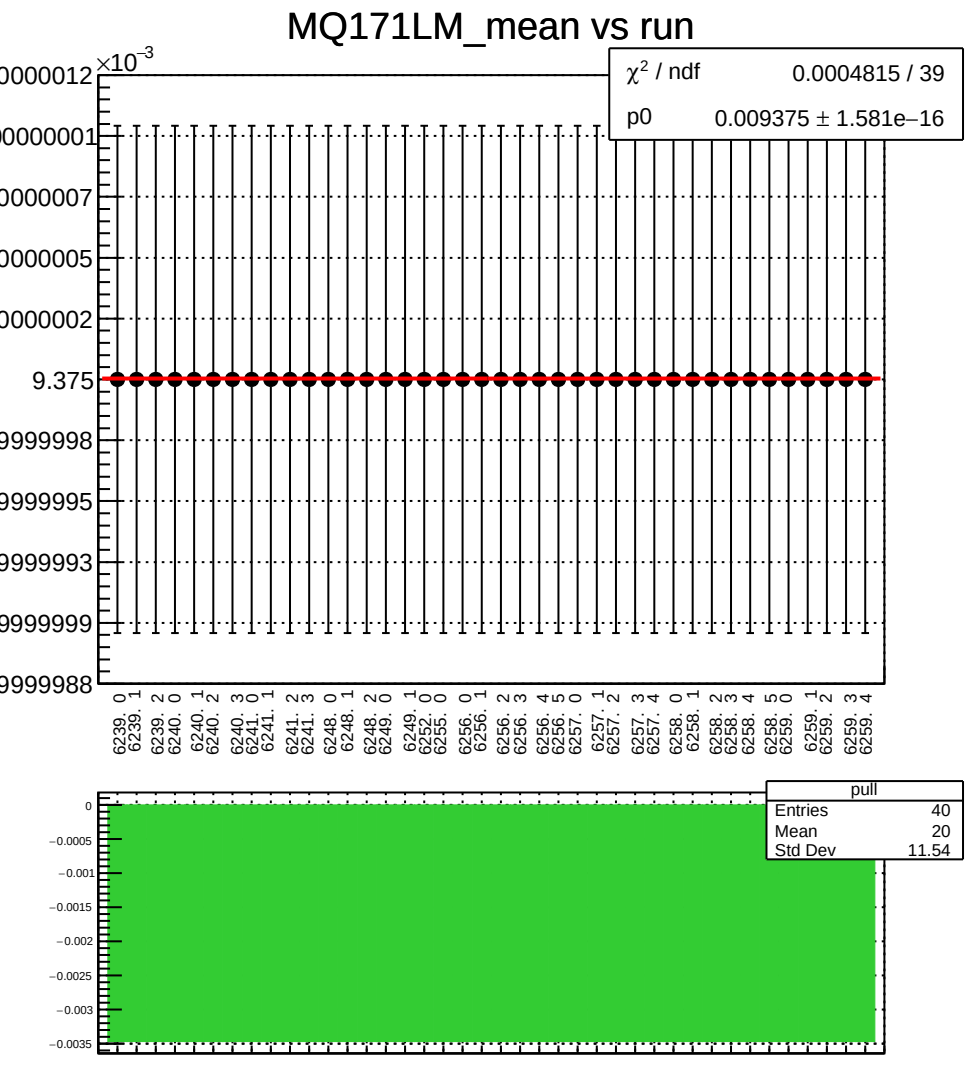

Phi_FG_mean vs run
χ² / ndf 8078 / 39
p0 89.96 ± 1.581e−16
91
90.8
90.6
90.4
90.2
90
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

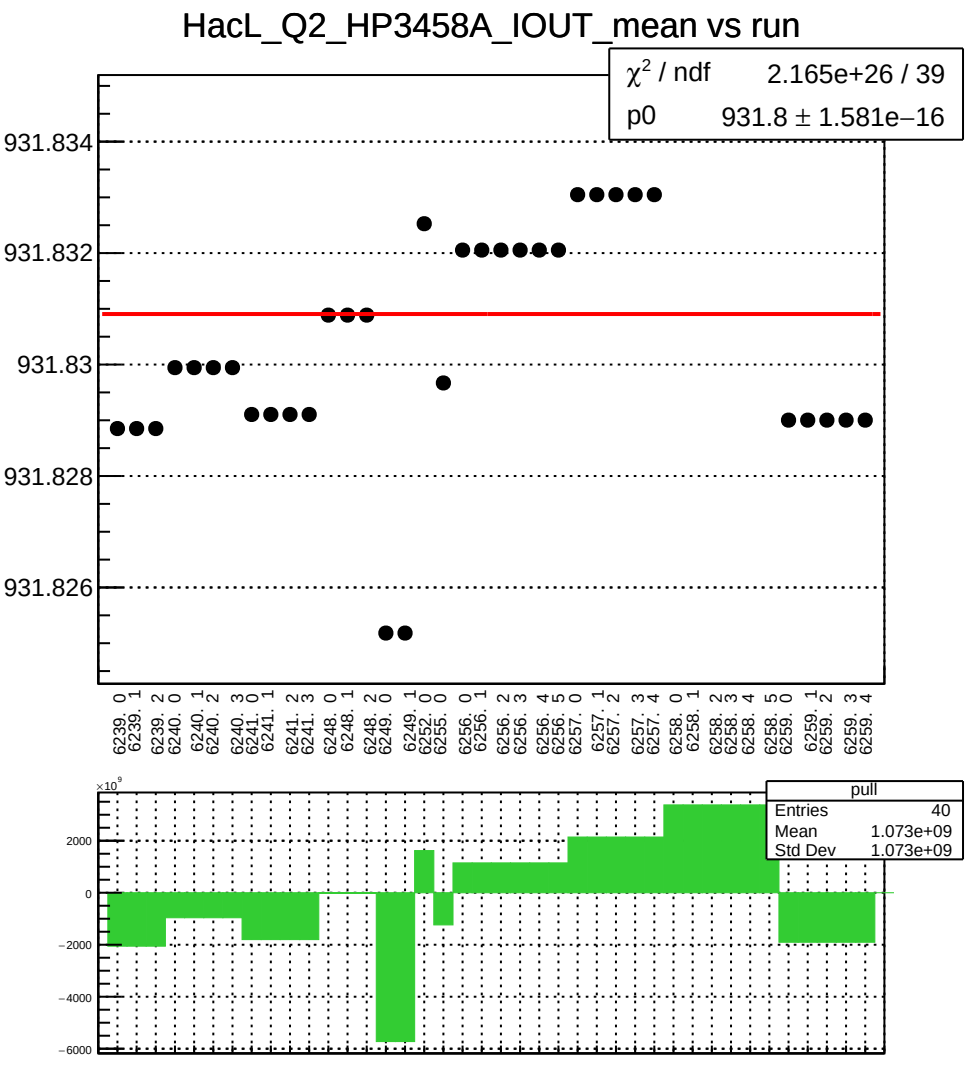

HALLA_p_mean vs run
χ² / ndf 6.716e+25 / 39
p0 2176 ± 1.581e−16
2176.193
2176.192
2176.191
2176.19
2176.189
2176.188
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10⁹
1000
0
−1000
−2000
−3000
−4000
pull
Entries 40
Mean 2.374e+08
Std Dev 2.374e+08

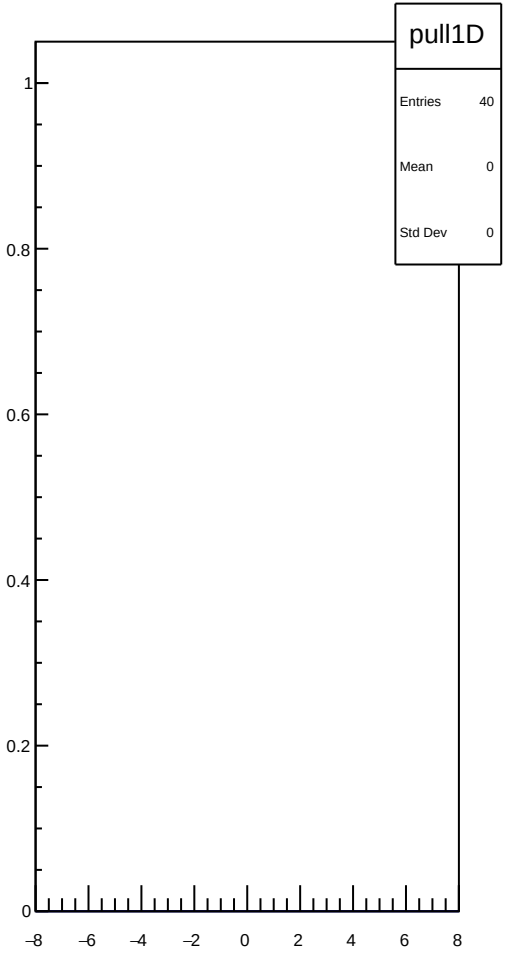

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

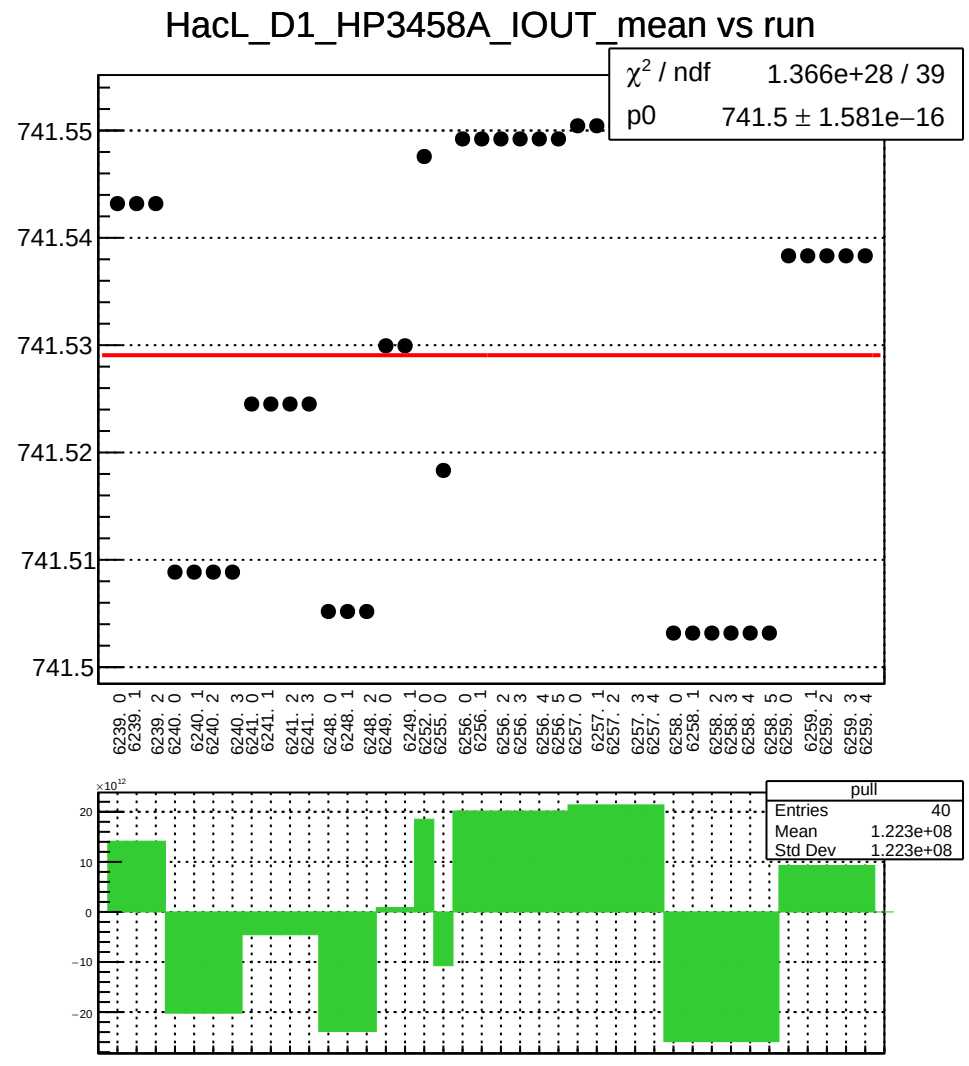

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 8.236e+18 / 39
p0 1.826e−06 ± 1.581e−16
2.5
2
1.5
1
0.5
0
−0.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10⁶
500
0
−500
−1000
−1500
−2000
pull
Entries 40
Mean 7.101e+07
Std Dev 7.101e+07

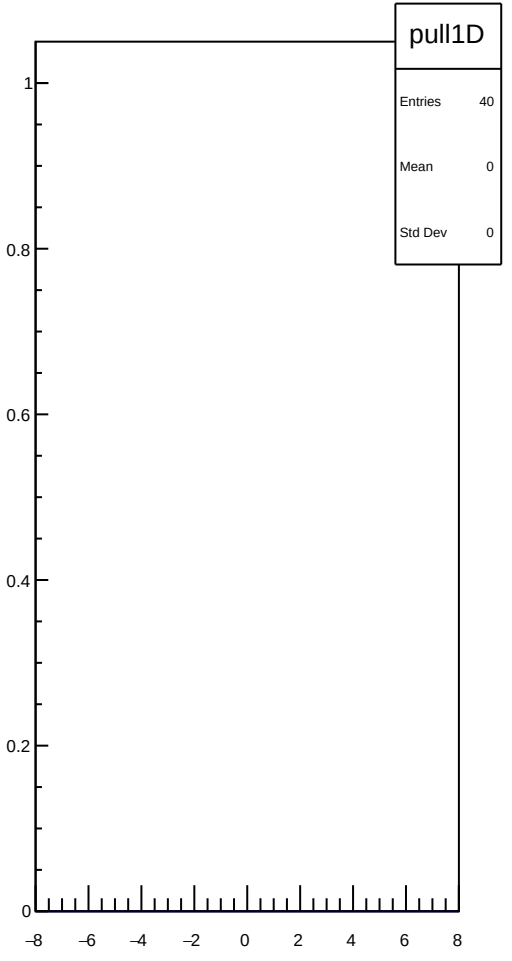

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

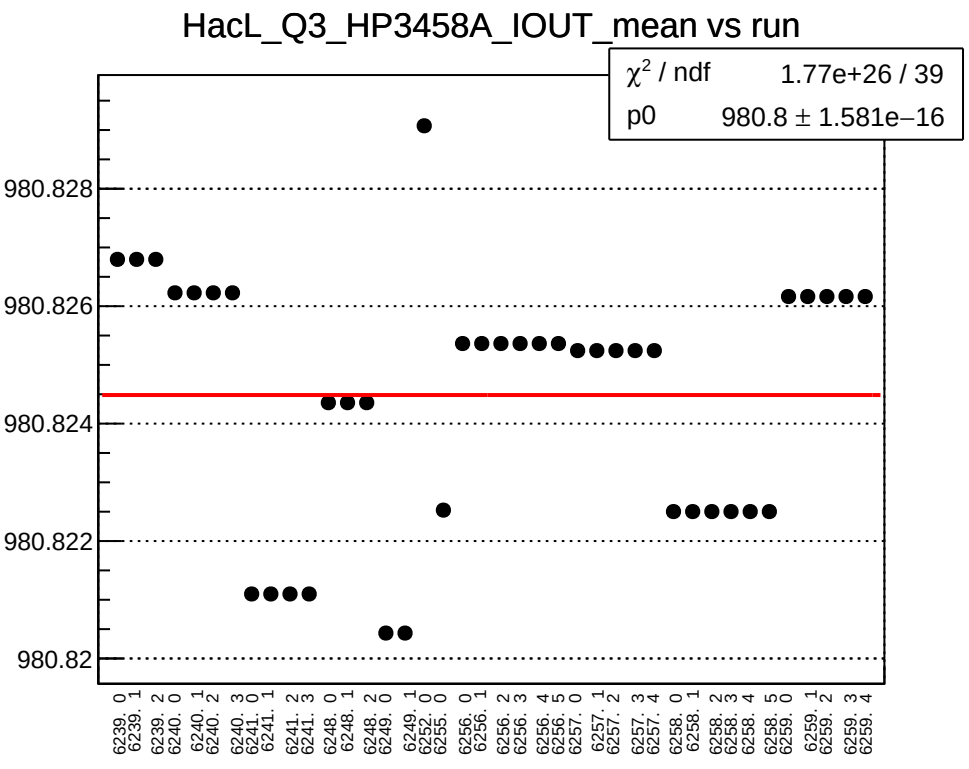

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0004815 / 39
p0 0.009375 ± 1.581e−16
9.375
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
pull1D
Entries 40
Mean −0.003469
Std Dev 8.232e−11

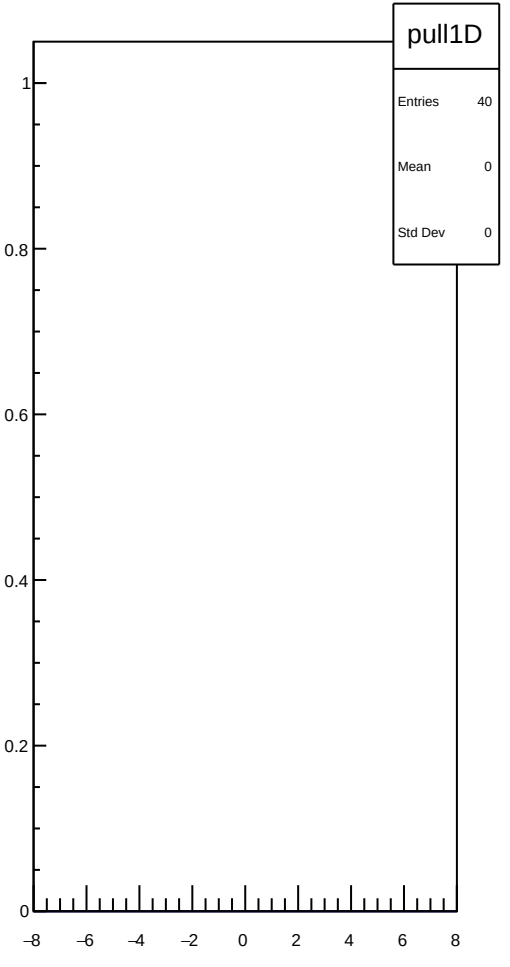

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.165e+26 / 39
p0 931.8 ± 1.581e−16
931.834
931.832
931.83
931.828
931.826
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10⁹
2000
0
−2000
−4000
−6000
pull
Entries 40
Mean 1.073e+09
Std Dev 1.073e+09

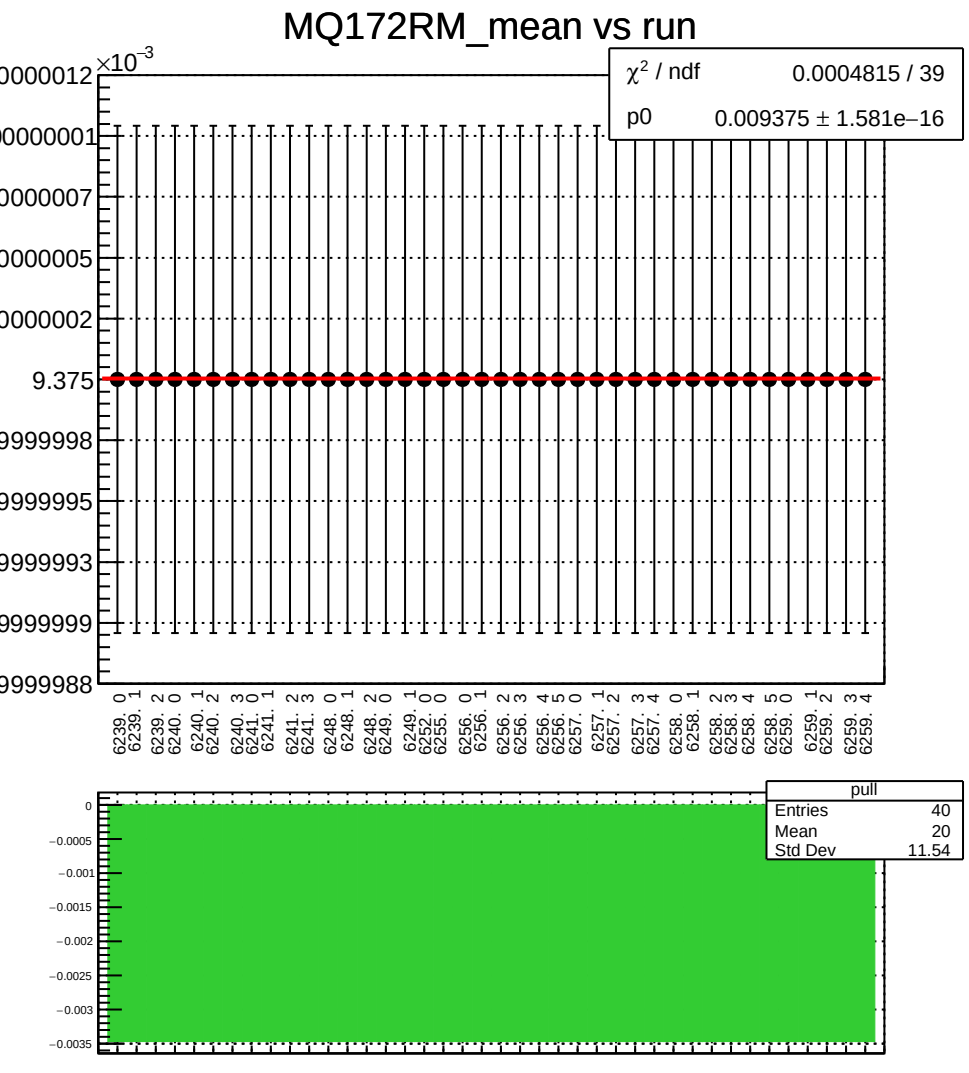

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

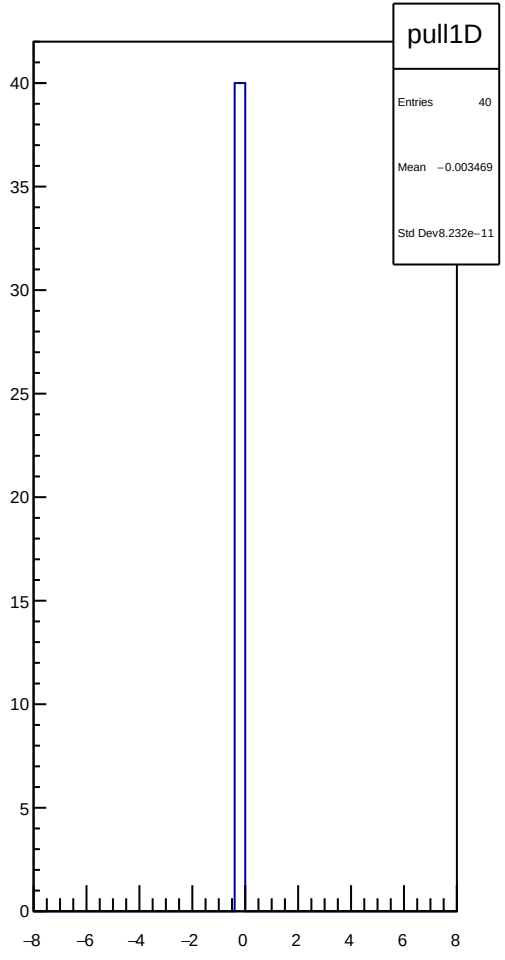

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.366e+28 / 39
p0 741.5 ± 1.581e−16
741.55
741.54
741.53
741.52
741.51
741.5
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10¹²
20
10
0
−10
−20
pull
Entries 40
Mean 1.223e+08
Std Dev 1.223e+08

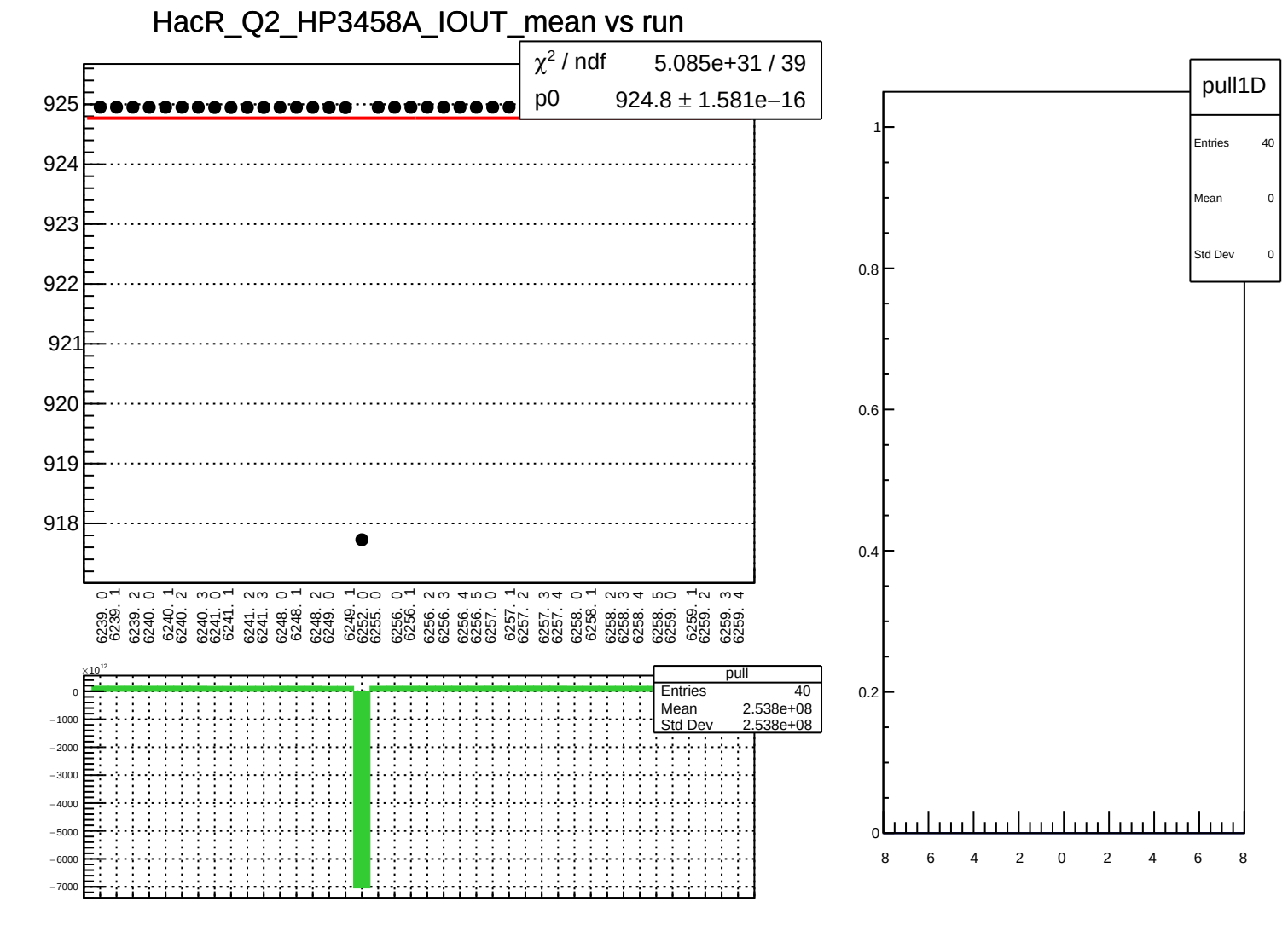

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

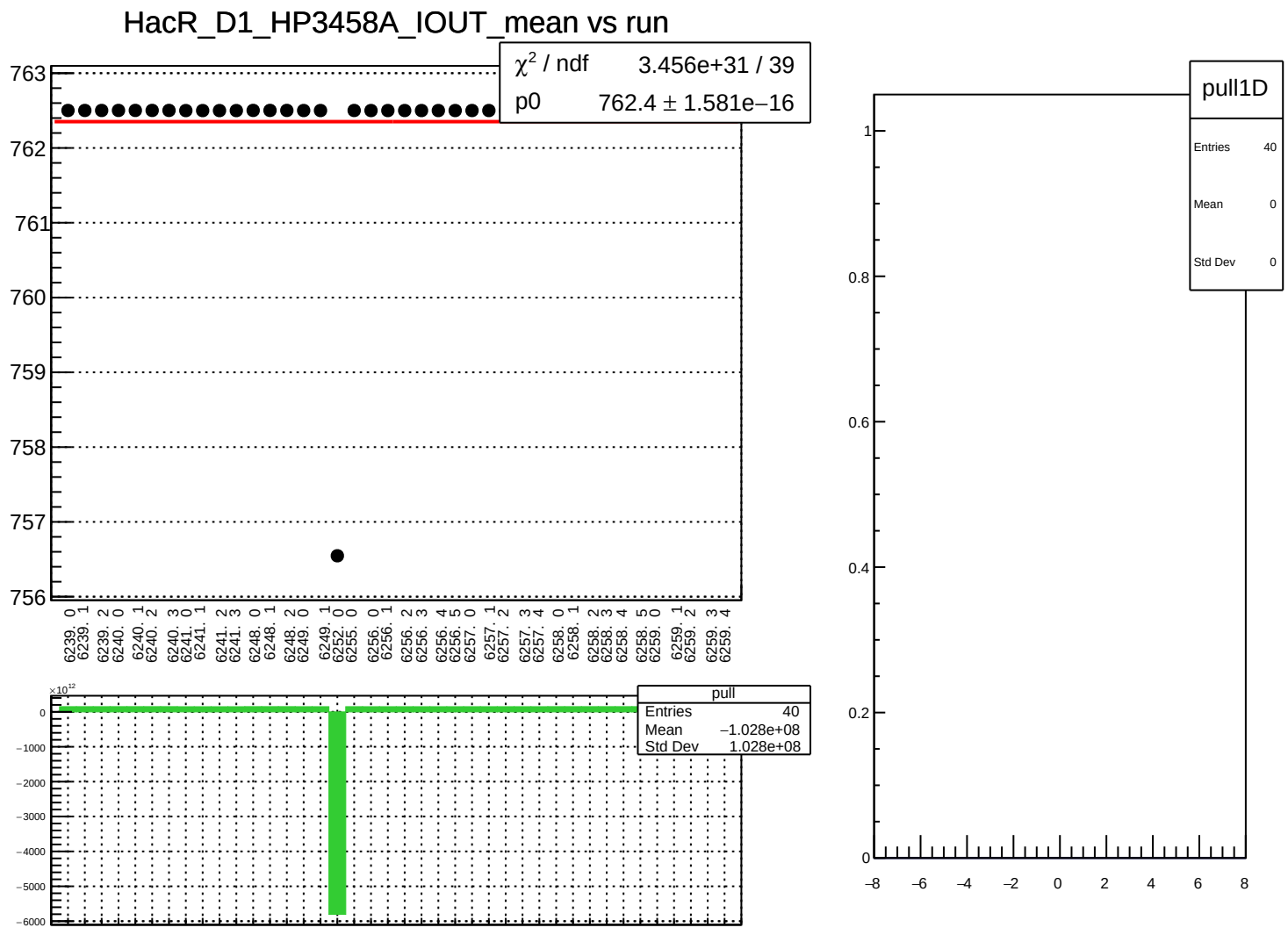

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.77e+26 / 39
p0 980.8 ± 1.581e−16
980.828
980.826
980.824
980.822
980.82
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 40
Mean −2.967e+07
Std Dev 2.967e+07

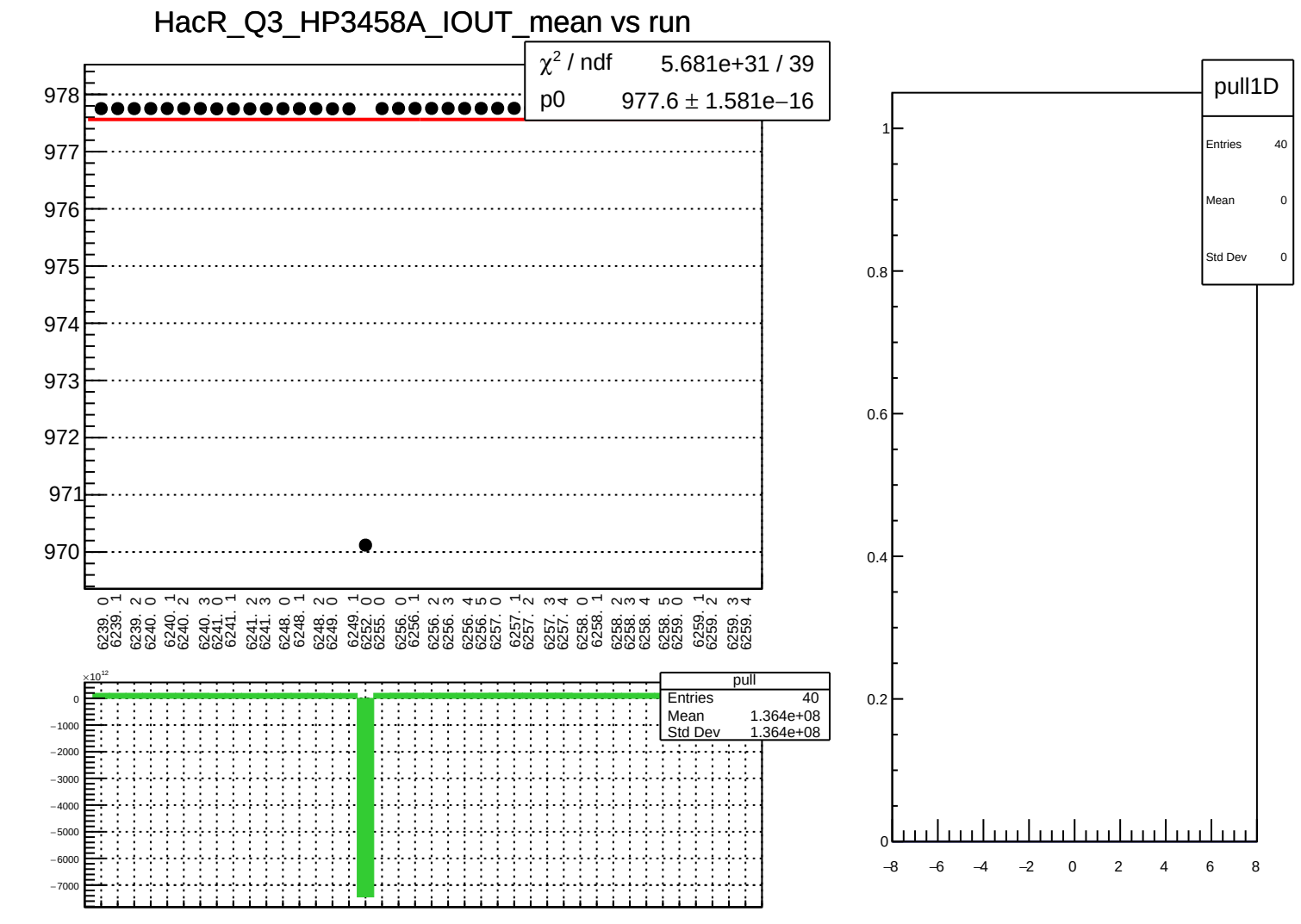

pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

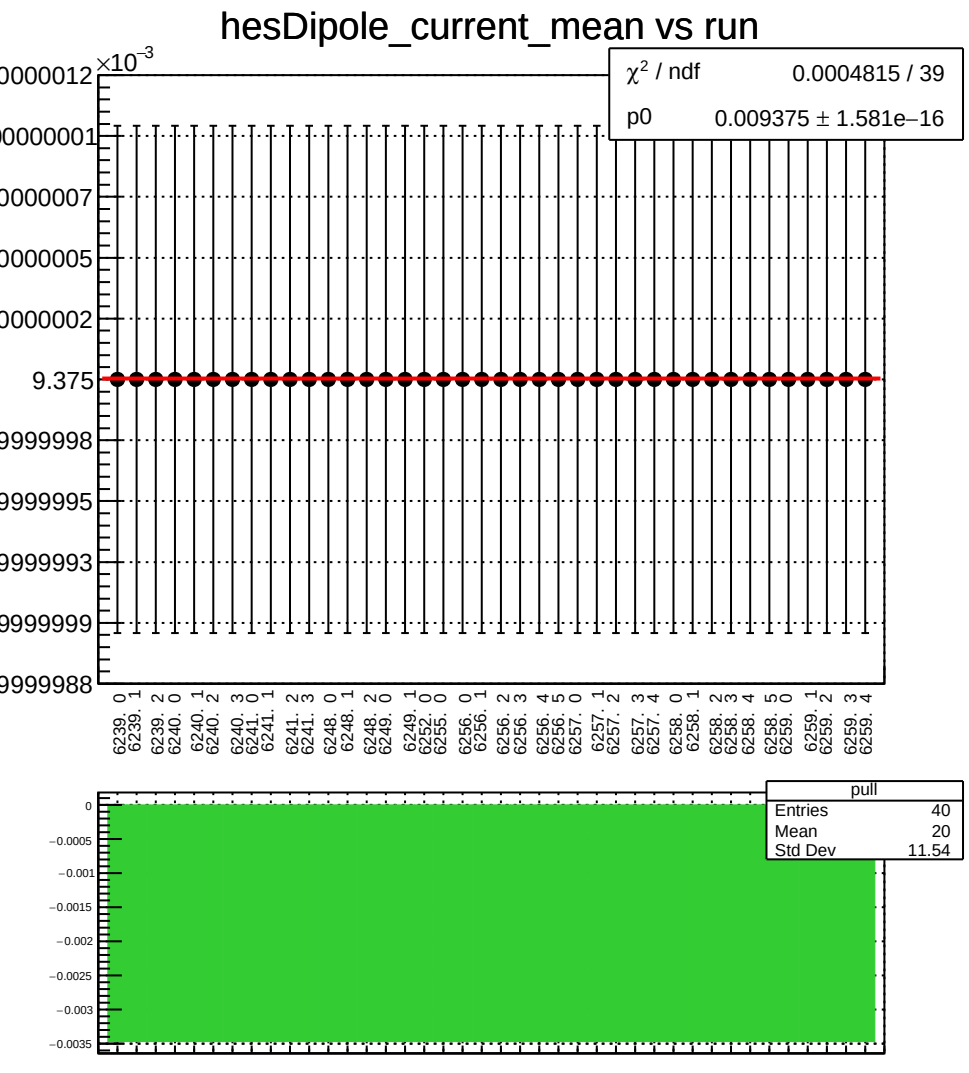

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0004815 / 39
p0 0.009375 ± 1.581e−16
9.375
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035

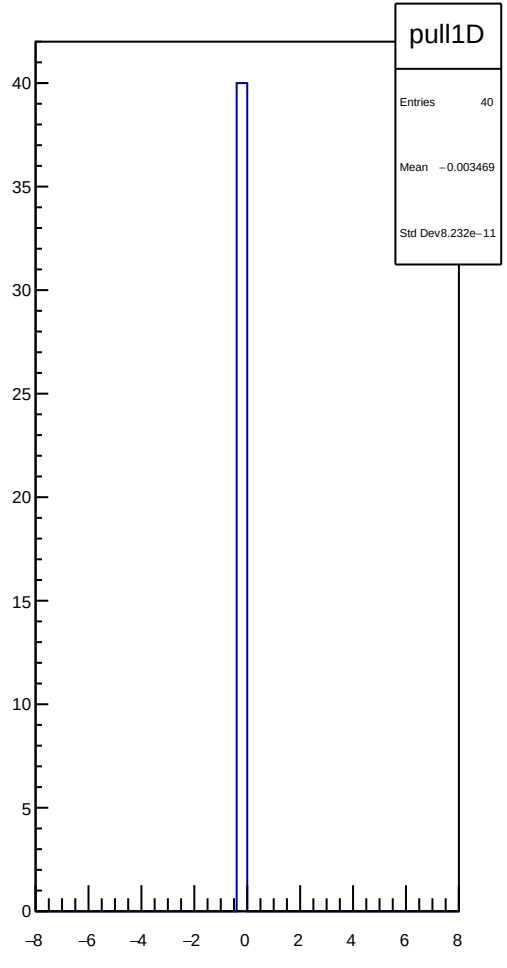

pull1D
Entries 40
Mean −0.003469
Std Dev 8.232e−11
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

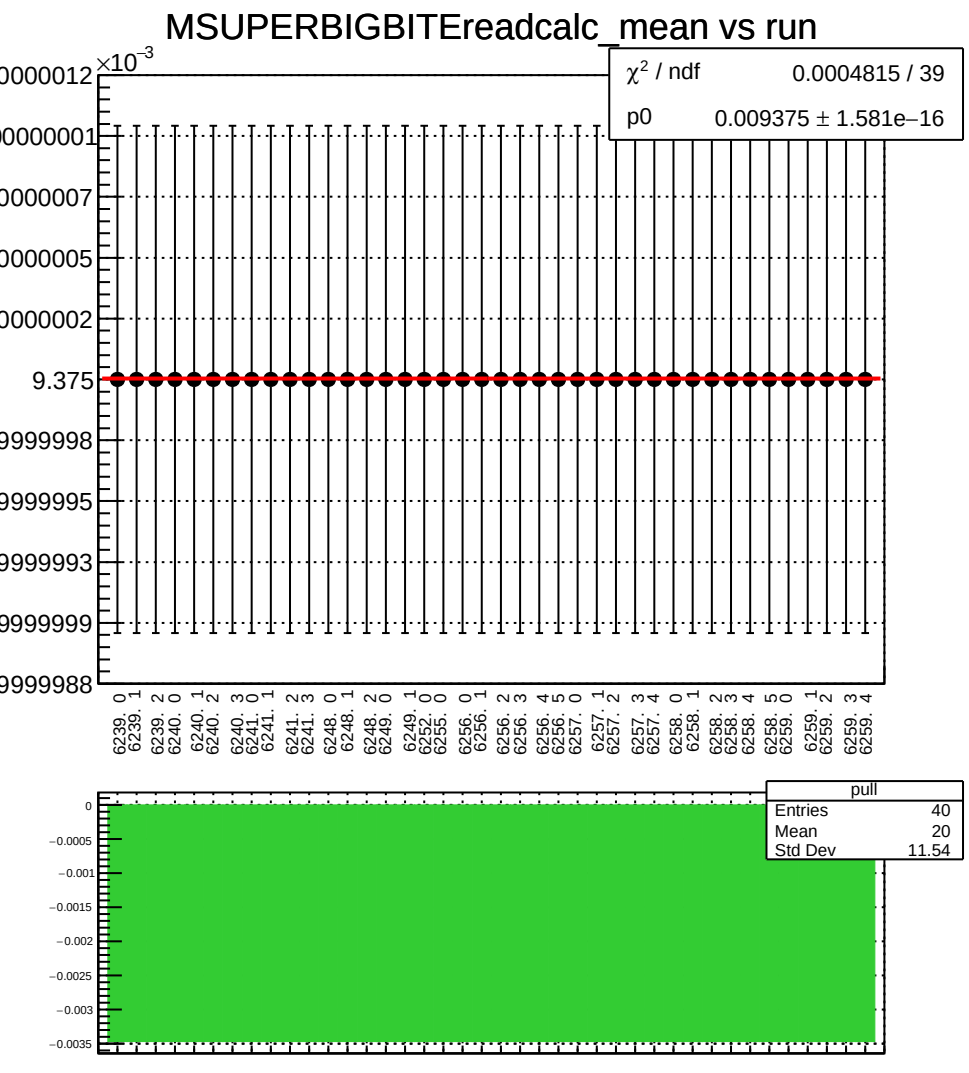

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.085e+31 / 39
p0 924.8 ± 1.581e−16
925
924
923
922
921
920
919
918
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10¹²
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
pull
Entries 40
Mean 2.538e+08
Std Dev 2.538e+08
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

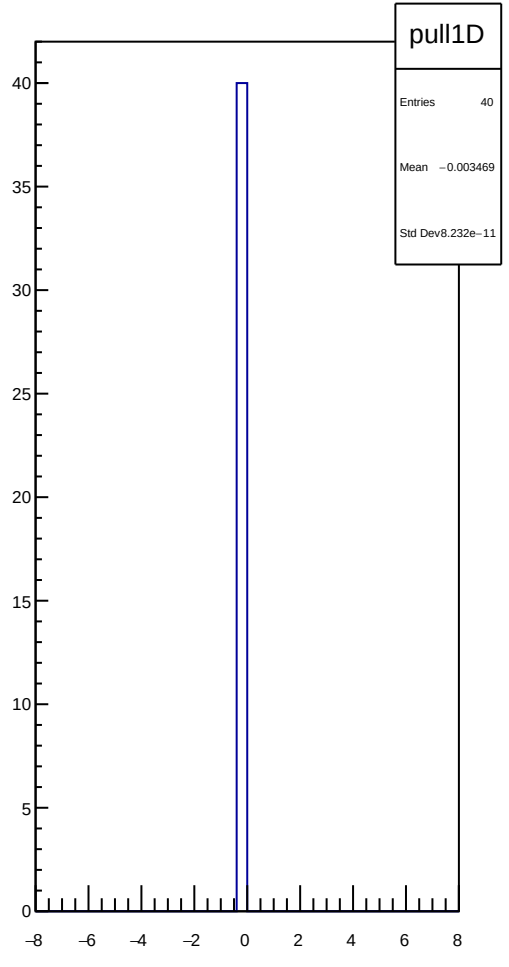

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.456e+31 / 39
p0 762.4 ± 1.581e−16
763
762
761
760
759
758
757
756
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10¹²
0
−1000
−2000
−3000
−4000
−5000
−6000
pull
Entries 40
Mean −1.028e+08
Std Dev 1.028e+08
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

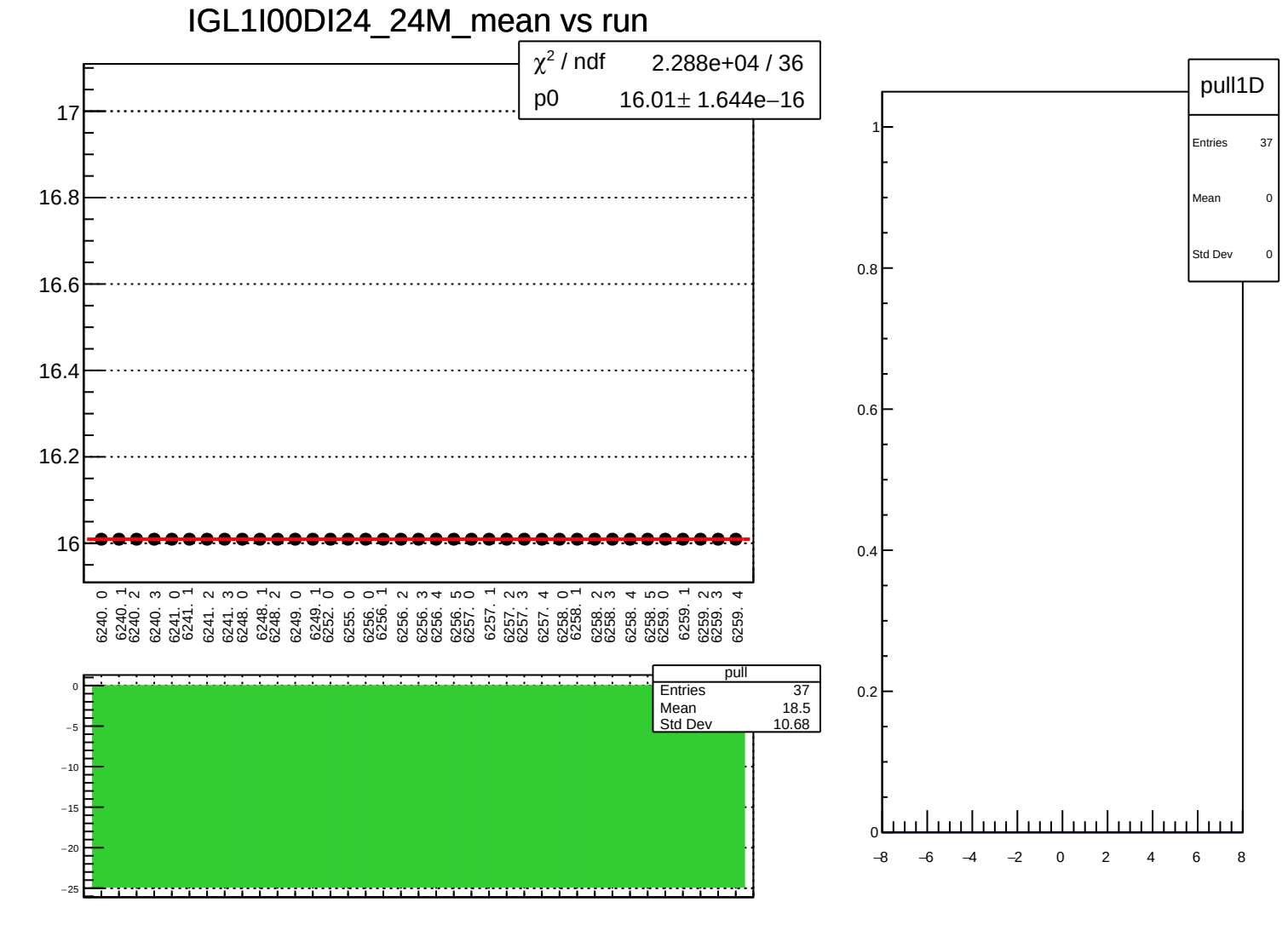

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.681e+31 / 39
p0 977.6 ± 1.581e−16
978
977
976
975
974
973
972
971
970
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10¹²
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
pull
Entries 40
Mean 1.364e+08
Std Dev 1.364e+08
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

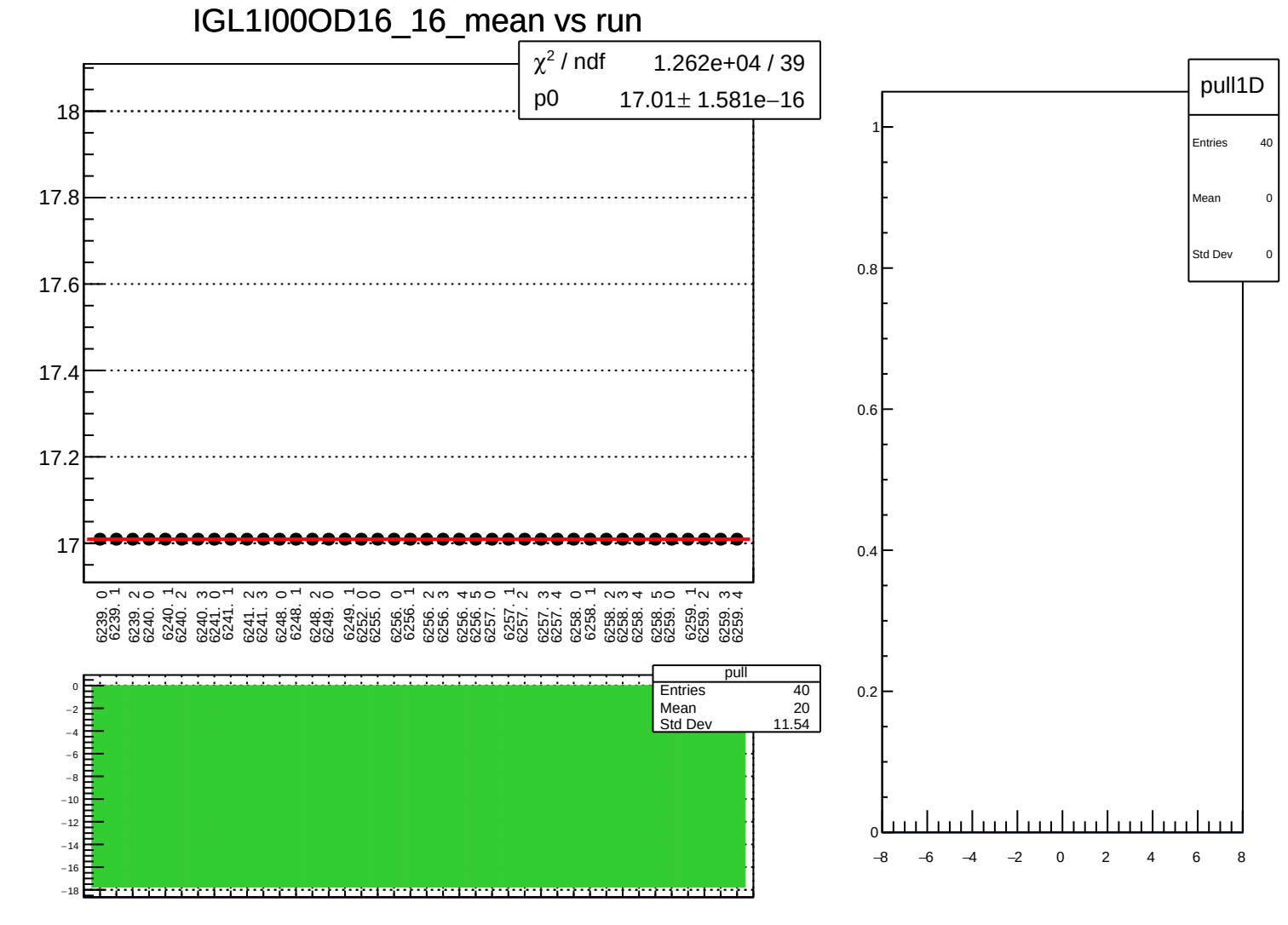

hesDipole_current_mean vs run
χ² / ndf 0.0004815 / 39
p0 0.009375 ± 1.581e−16
×10⁻³
pull
Entries 40
Mean 20
Std Dev 11.54

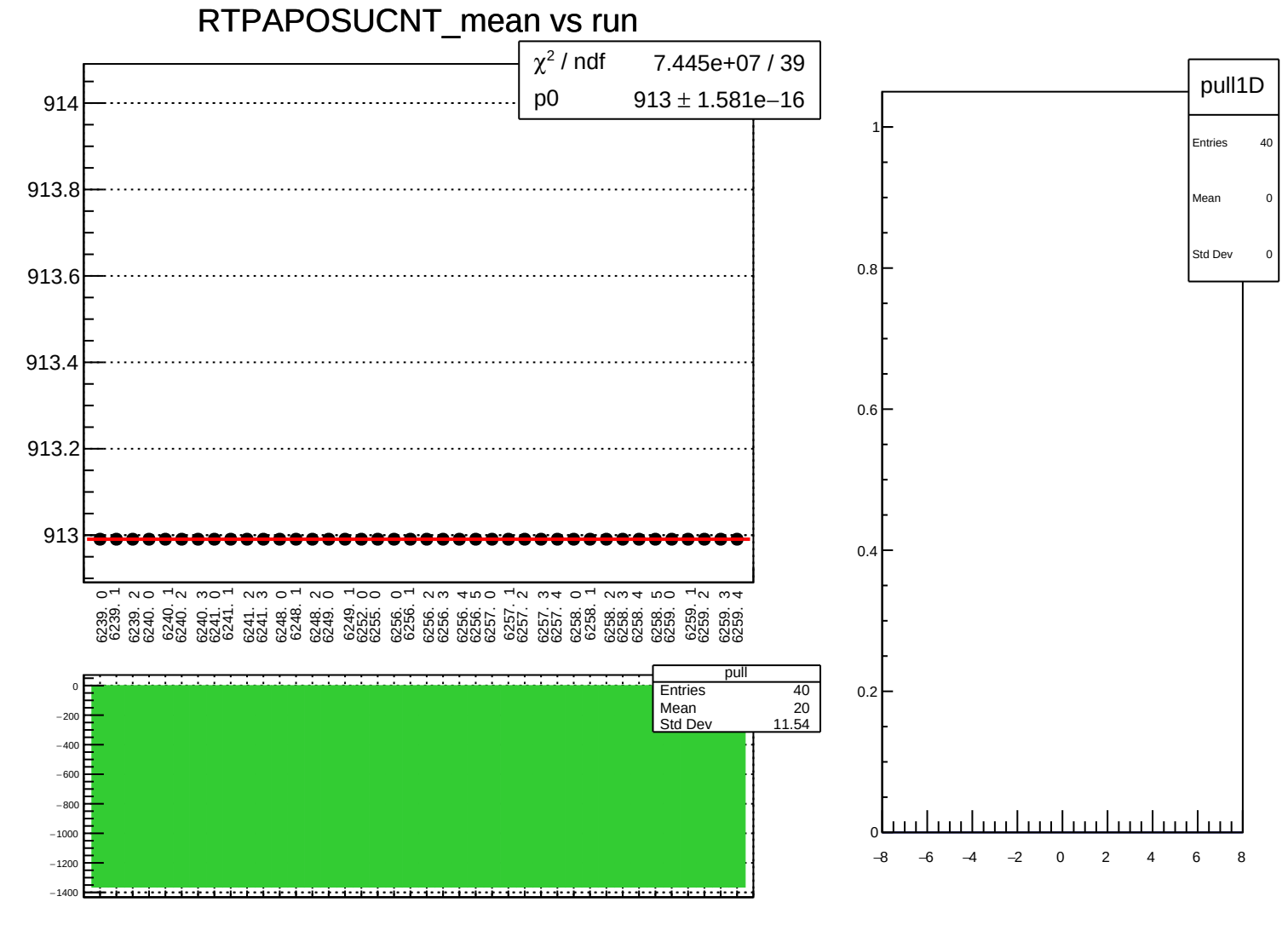

pull1D
Entries 40
Mean −0.003469
Std Dev 8.232e−11

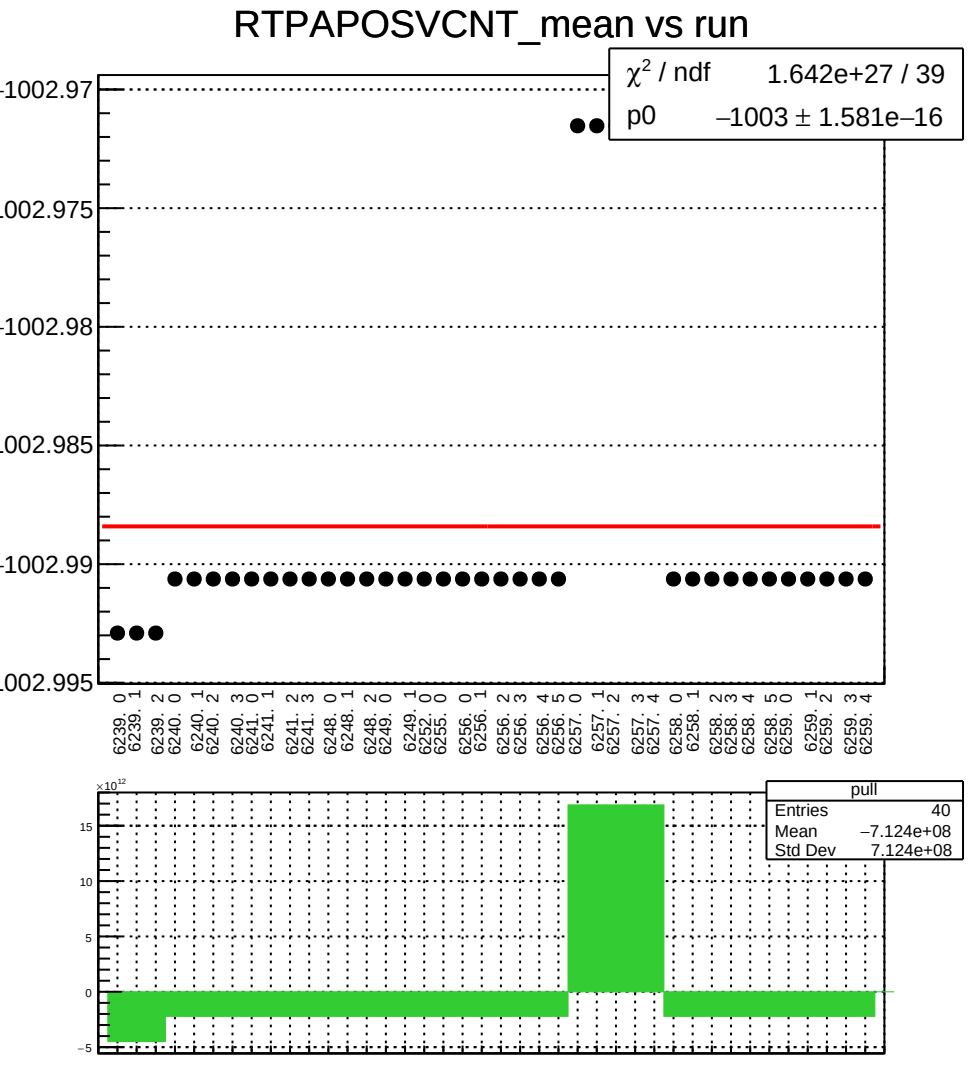

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0004815 / 39
p0 0.009375 ± 1.581e−16
×10⁻³
pull
Entries 40
Mean 20
Std Dev 11.54

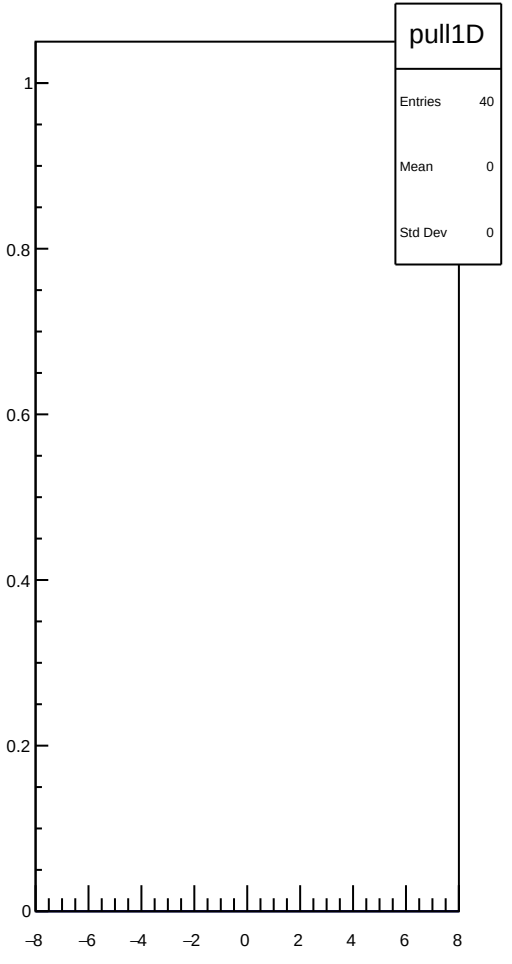

pull1D
Entries 40
Mean −0.003469
Std Dev 8.232e−11


IGL1I00DI24_24M_mean vs run
χ² / ndf 2.288e+04 / 36
p0 16.01± 1.644e−16
17
16.8
16.6
16.4
16.2
16
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 37
Mean 18.5
Std Dev 10.68
0
−5
−10
−15
−20
−25
pull1D
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 1.262e+04 / 39
p0 17.01± 1.581e−16
18
17.8
17.6
17.4
17.2
17
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 7.445e+07 / 39
p0 913 ± 1.581e−16
914
913.8
913.6
913.4
913.2
913
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
pull
Entries 40
Mean 20
Std Dev 11.54
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.642e+27 / 39
p0 −1003 ± 1.581e−16
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
−1002.995
6239. 0
6239. 1
6239. 2
6240. 0
6240. 1
6240. 2
6240. 3
6241. 0
6241. 1
6241. 2
6241. 3
6248. 0
6248. 1
6248. 2
6249. 0
6249. 1
6252. 0
6255. 0
6256. 0
6256. 1
6256. 2
6256. 3
6256. 4
6256. 5
6257. 0
6257. 1
6257. 2
6257. 3
6257. 4
6258. 0
6258. 1
6258. 2
6258. 3
6258. 4
6258. 5
6259. 0
6259. 1
6259. 2
6259. 3
6259. 4
×10¹²
15
10
5
0
−5
pull
Entries 40
Mean −7.124e+08
Std Dev 7.124e+08


pull1D
Entries 40
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8