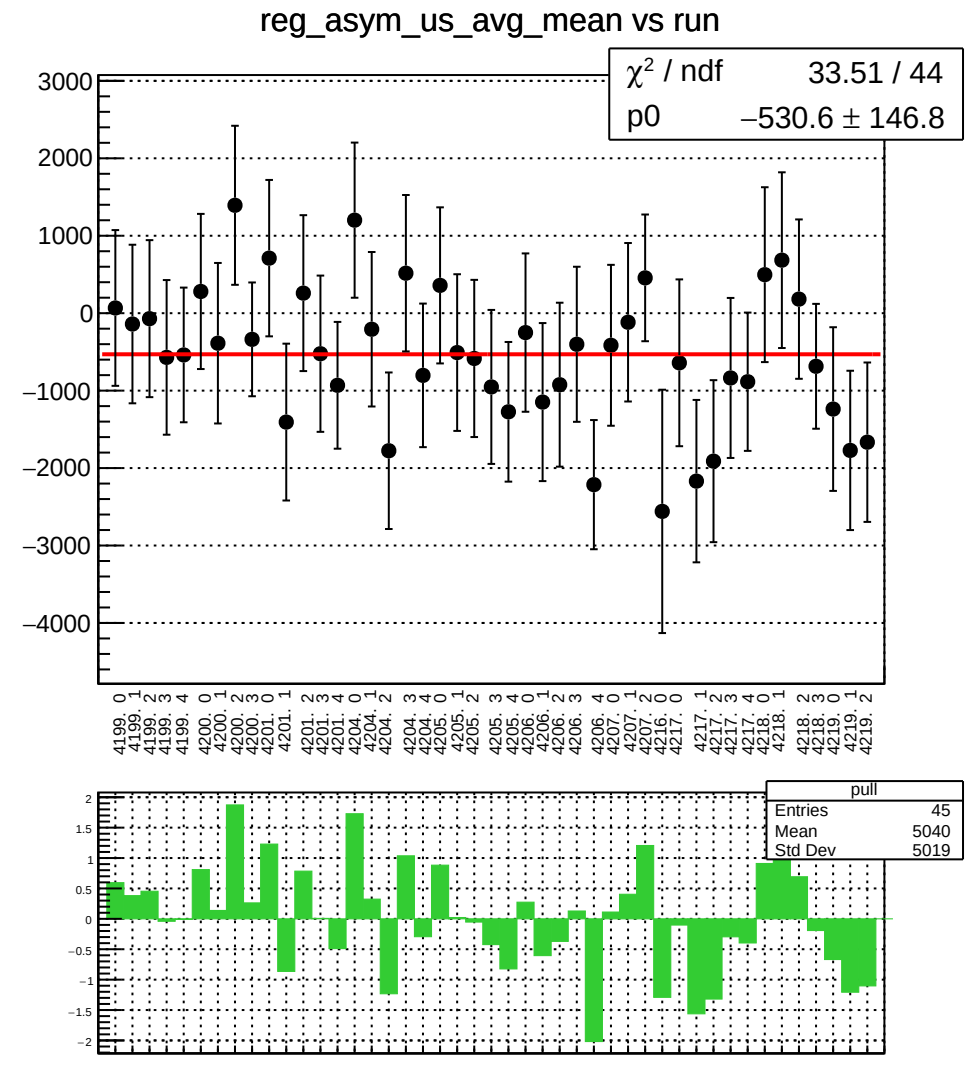
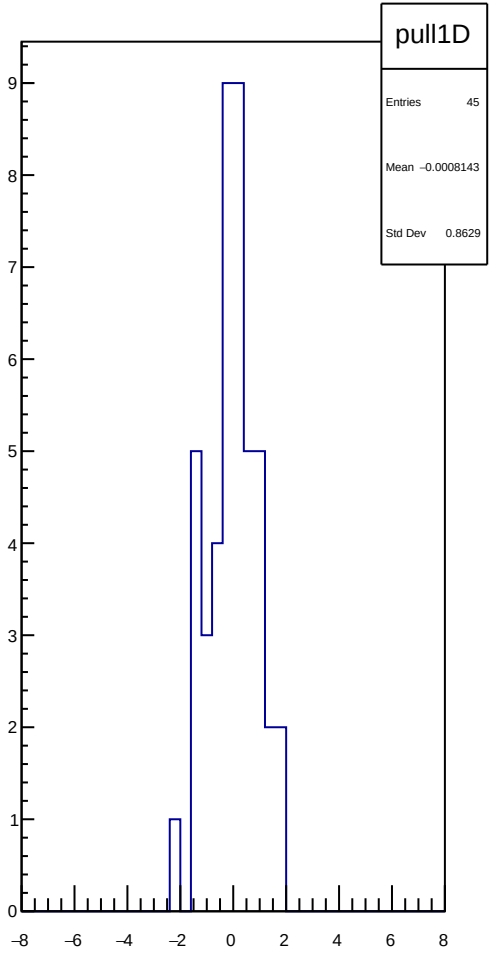
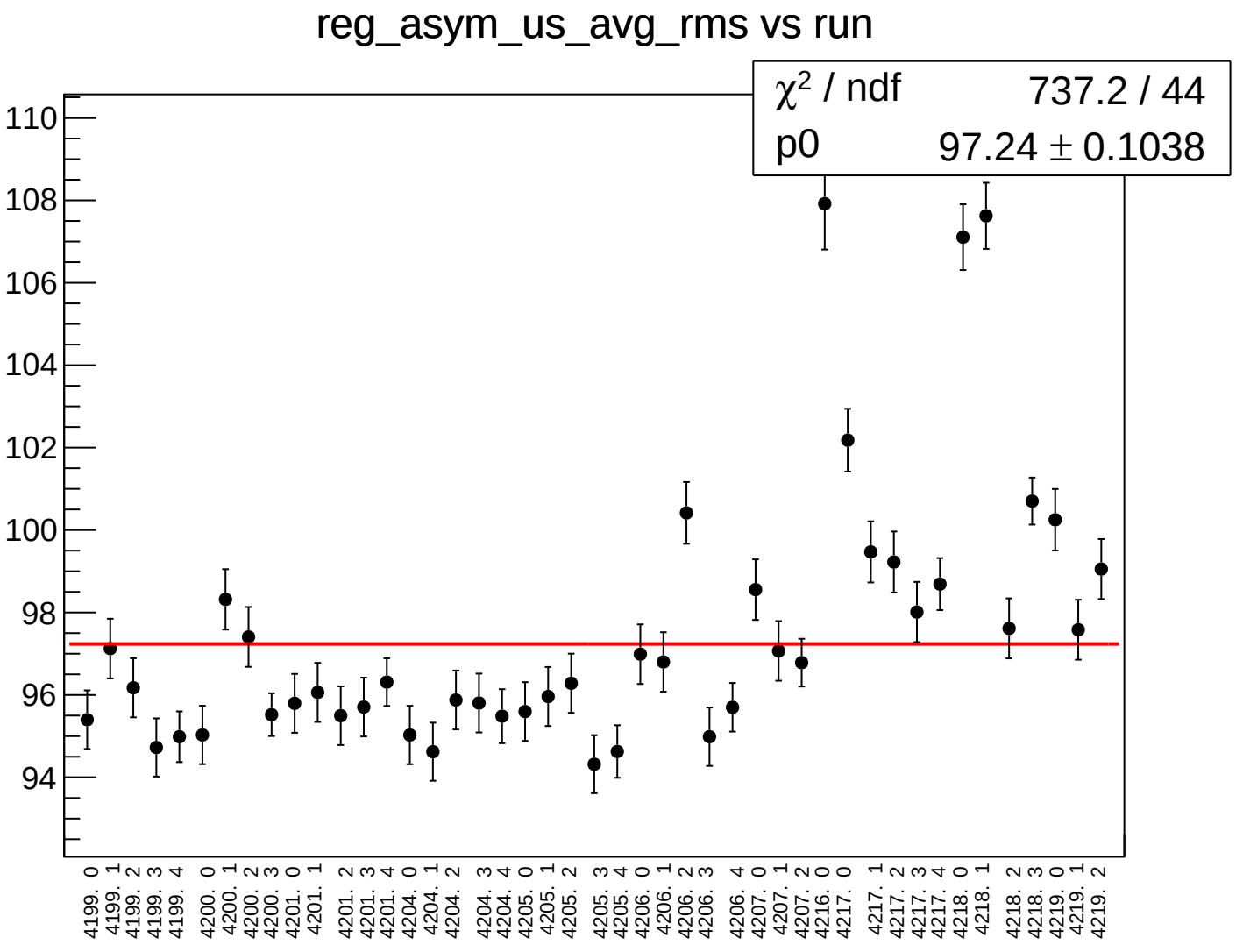
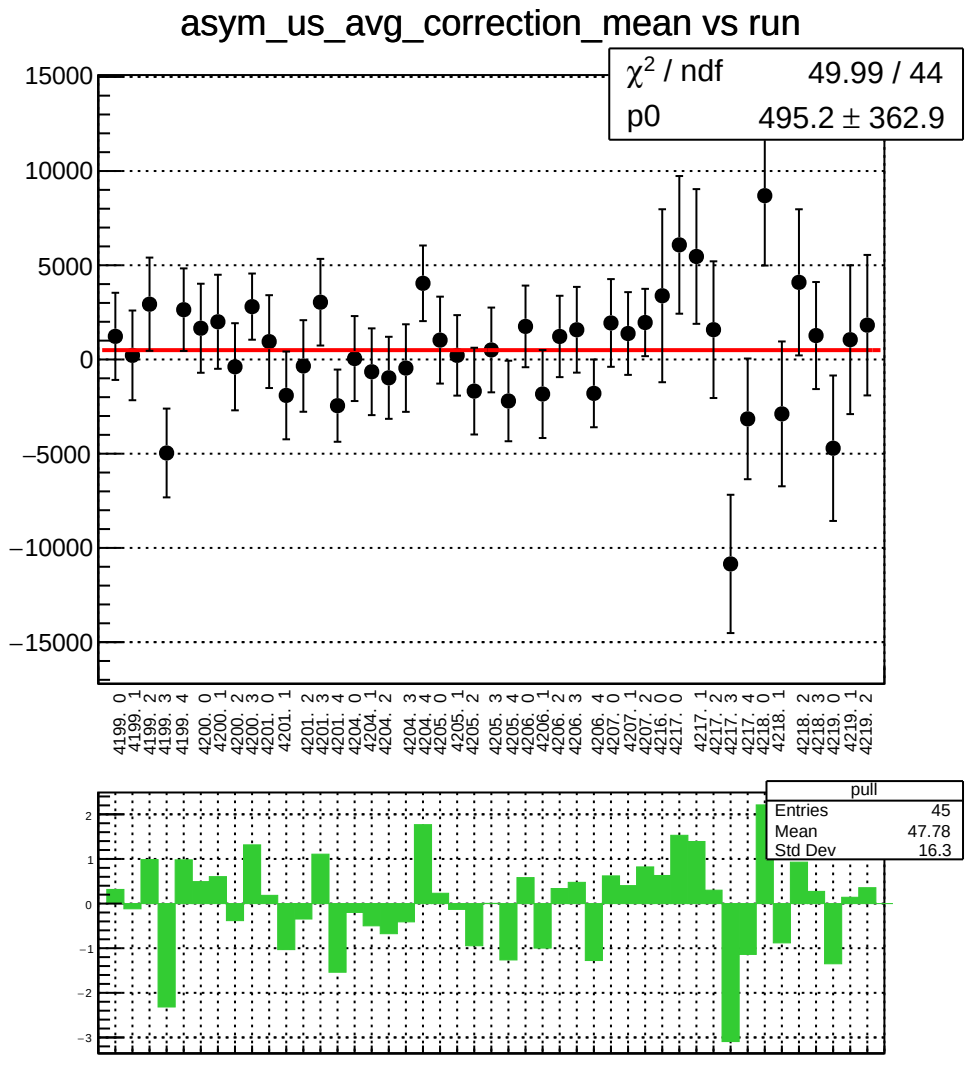
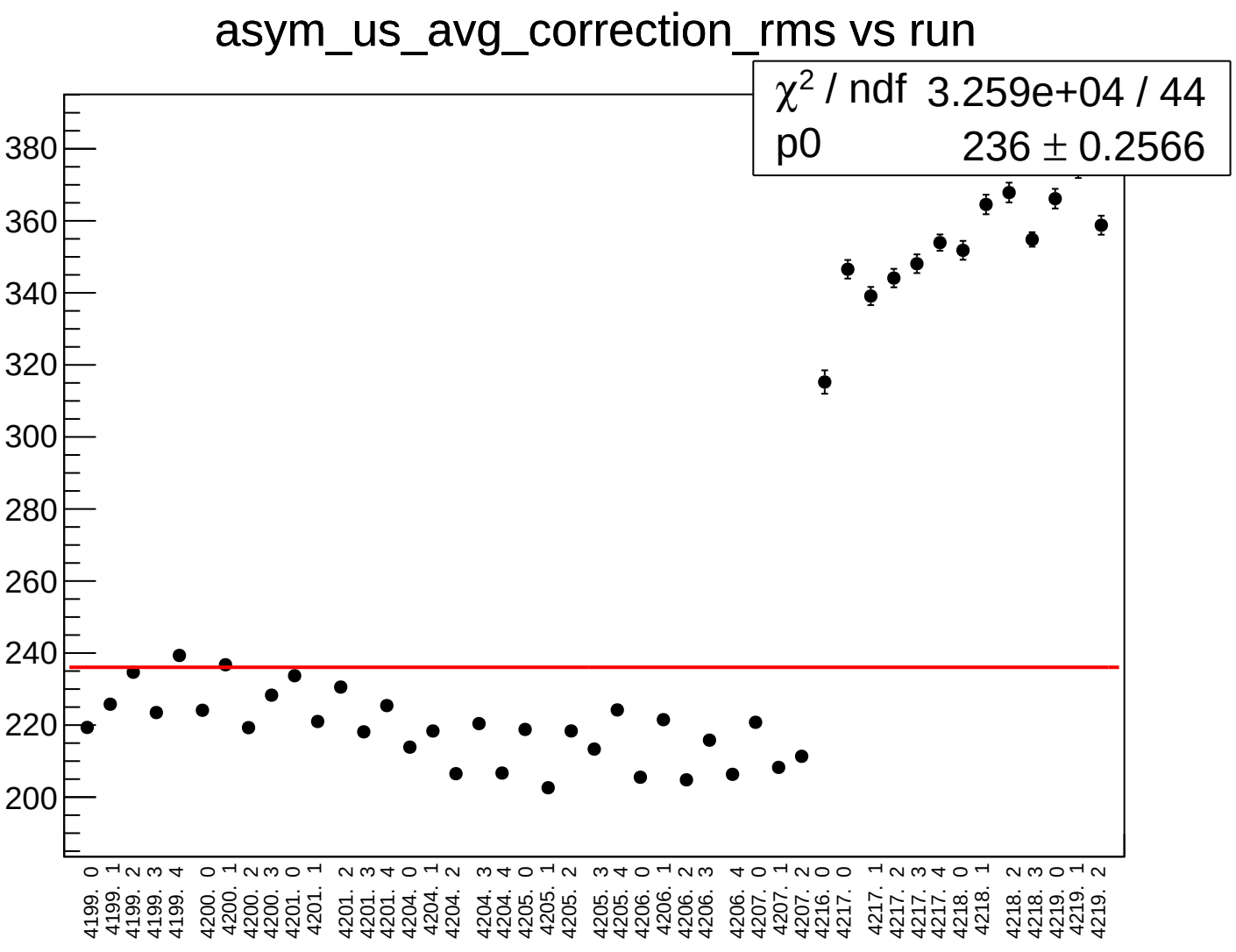
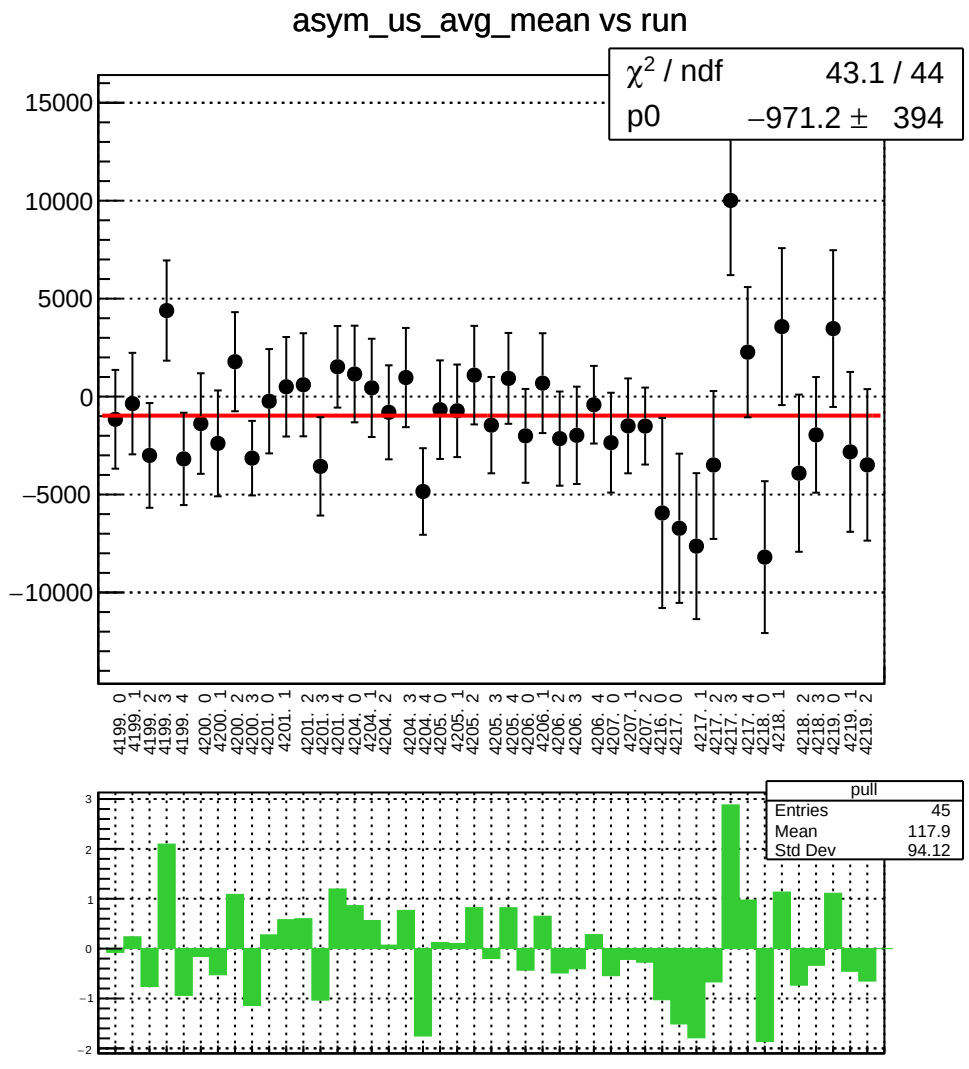

reg_asym_us_avg_mean vs run
χ² / ndf 33.51 / 44
p0 −530.6 ± 146.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 5040
Std Dev 5019
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

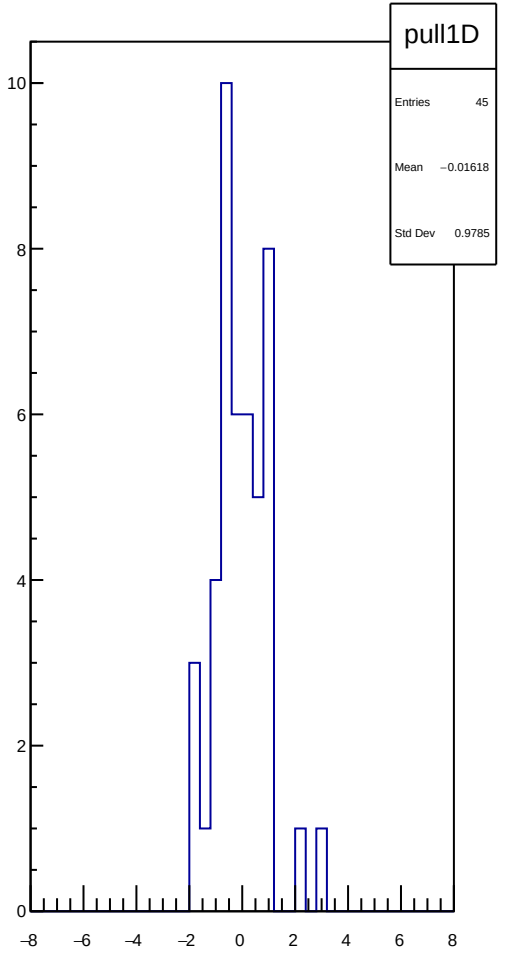

pull1D
Entries 45
Mean −0.0008143
Std Dev 0.8629
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

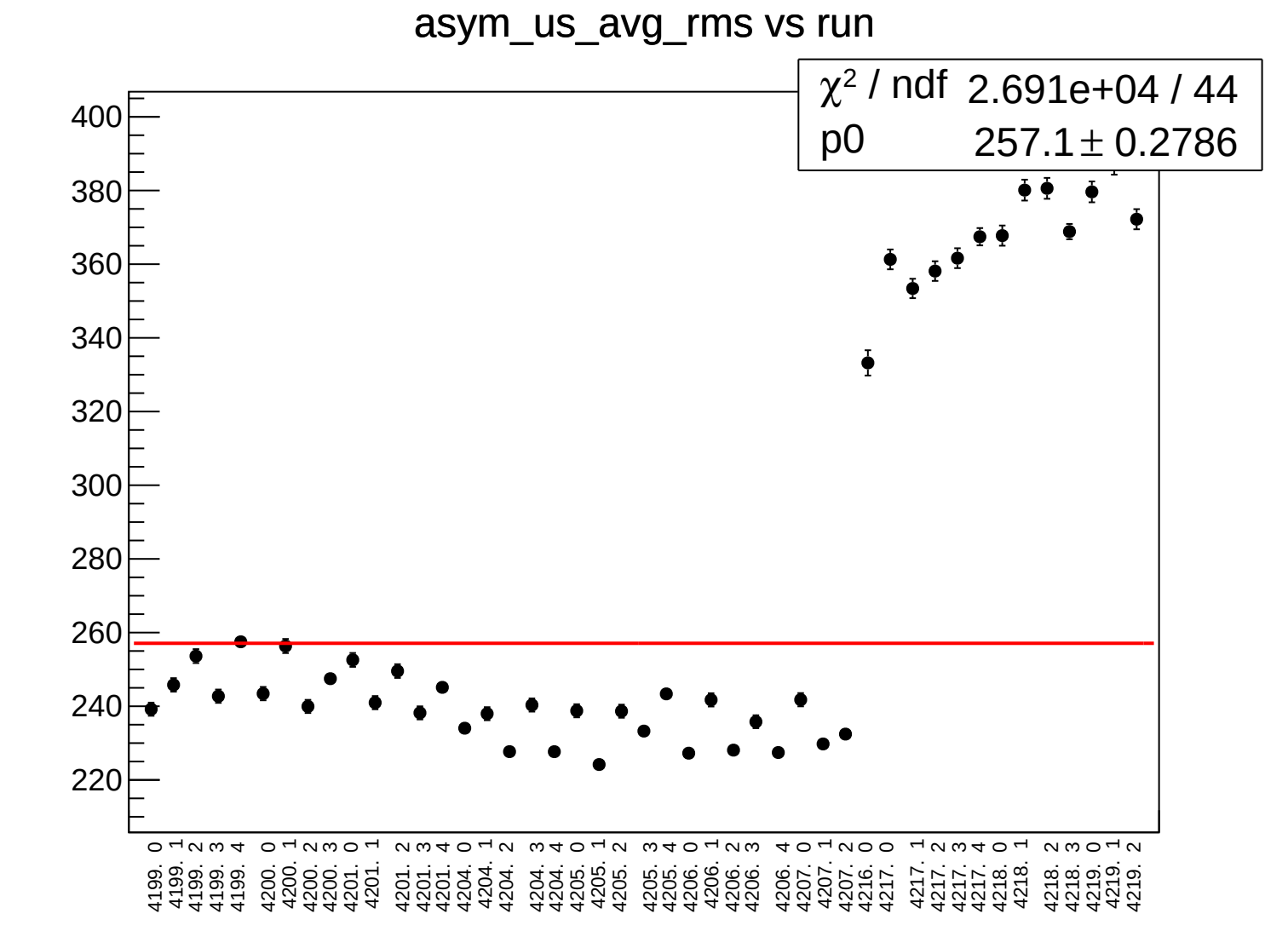

reg_asym_us_avg_rms vs run
χ² / ndf 737.2 / 44
p0 97.24 ± 0.1038
110
108
106
104
102
100
98
96
94
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

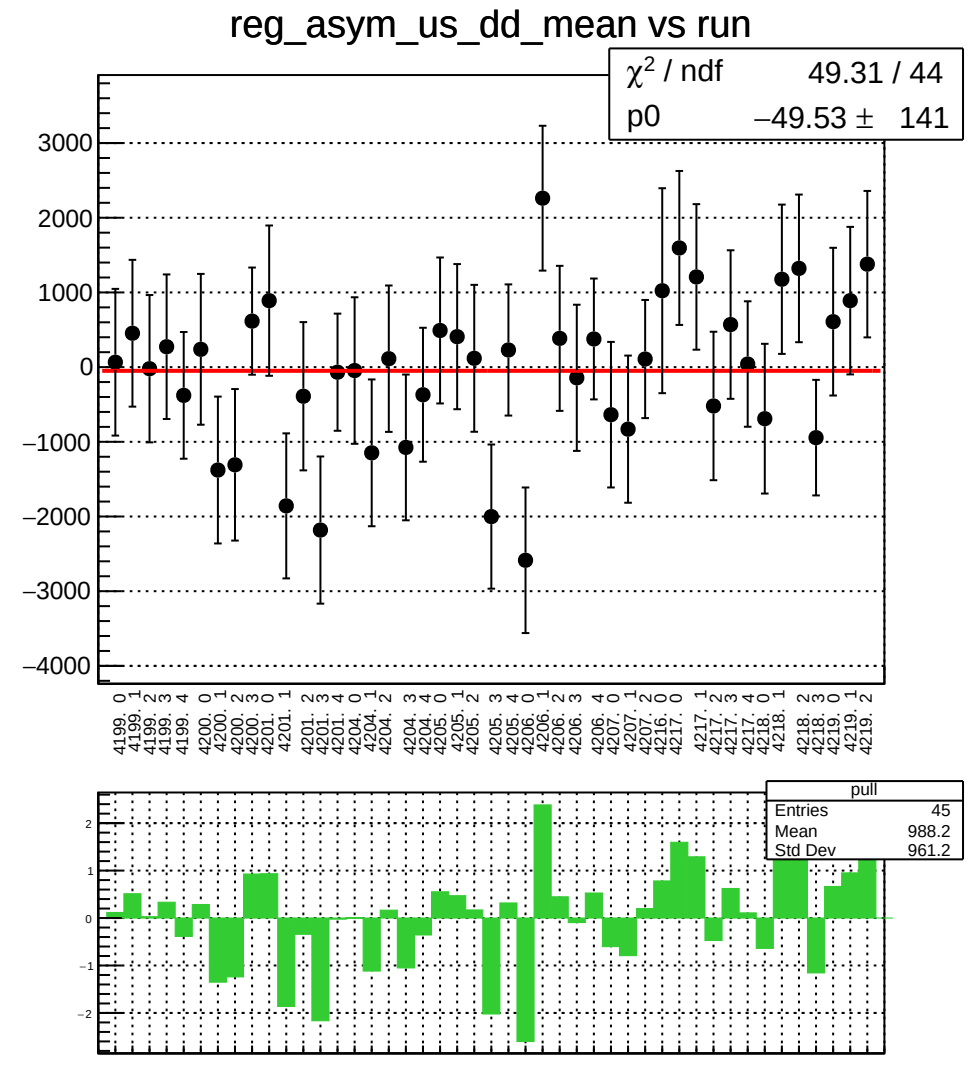

asym_us_avg_correction_mean vs run
χ² / ndf 49.99 / 44
p0 495.2 ± 362.9
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 47.78
Std Dev 16.3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.008765
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

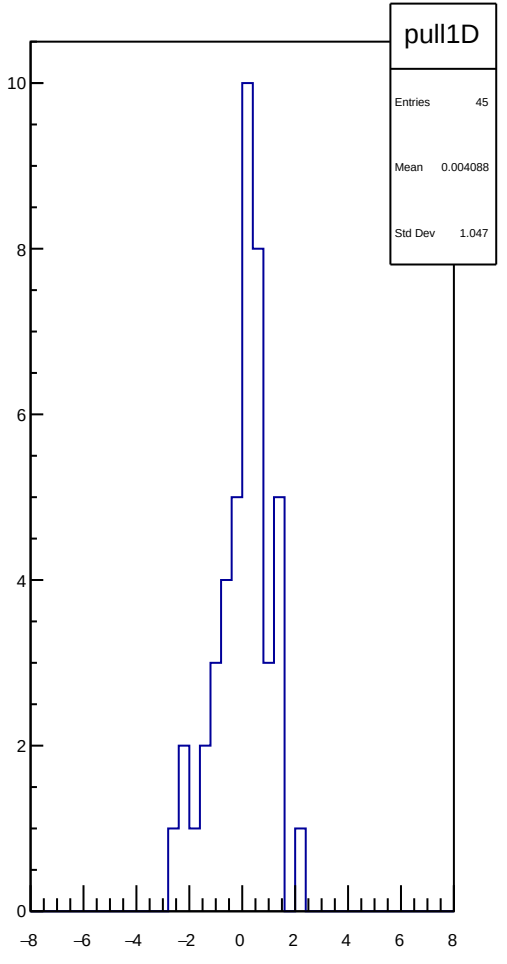

asym_us_avg_correction_rms vs run
χ² / ndf 3.259e+04 / 44
p0 236 ± 0.2566
380
360
340
320
300
280
260
240
220
200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

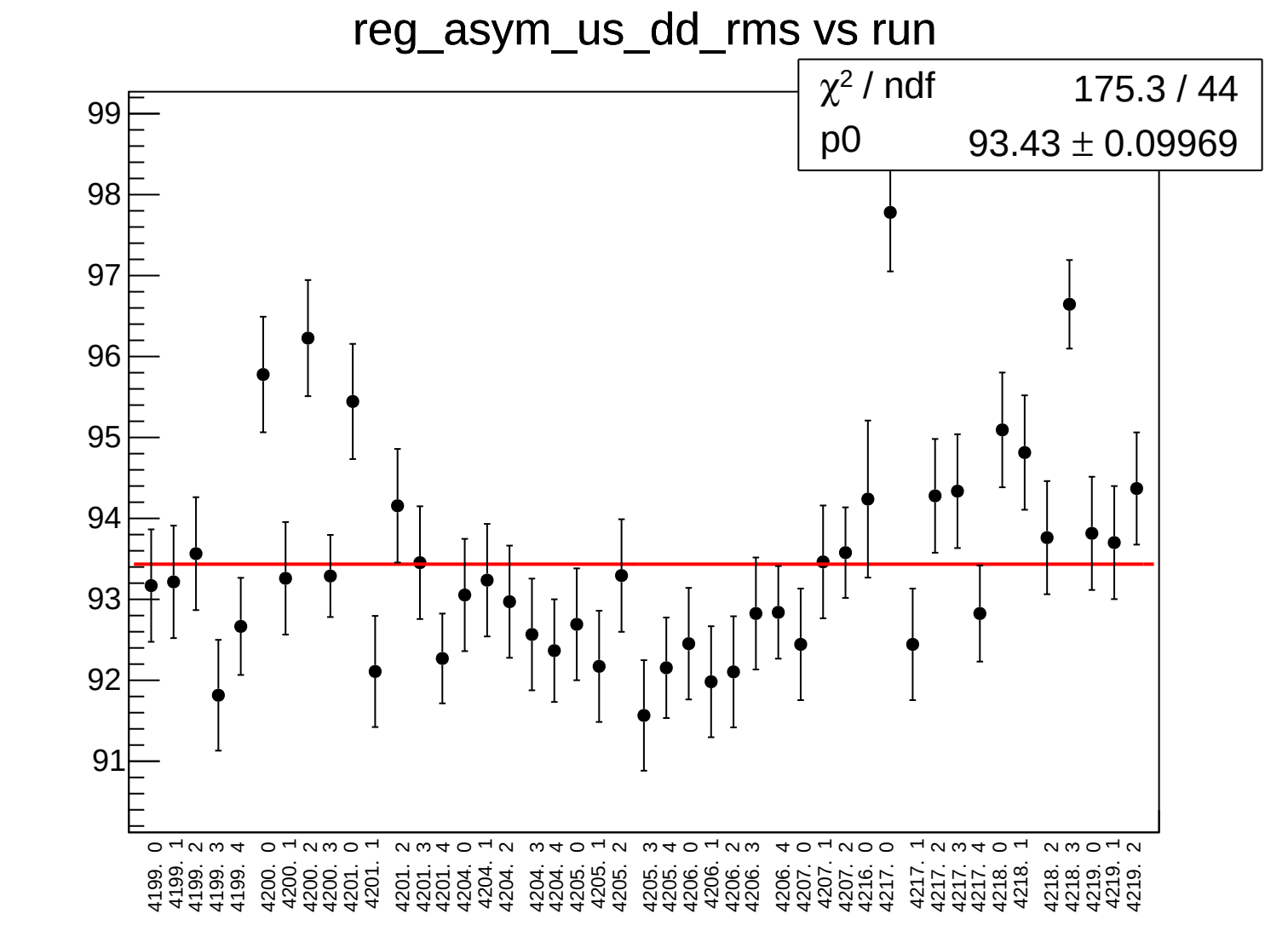

asym_us_avg_mean vs run
χ² / ndf 43.1 / 44
p0 −971.2 ± 394
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 117.9
Std Dev 94.12
3
2
1
0
−1
−2

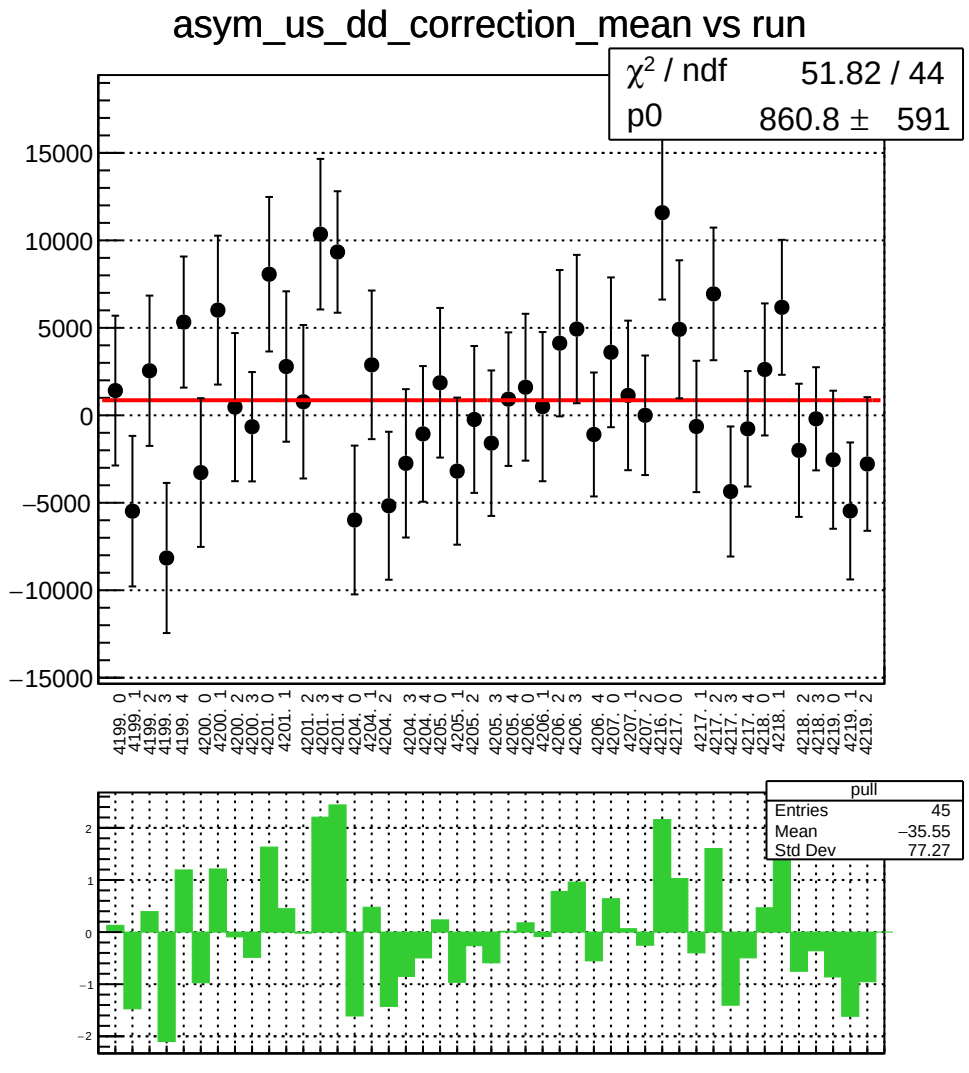

pull1D
Entries 45
Mean −0.01618
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

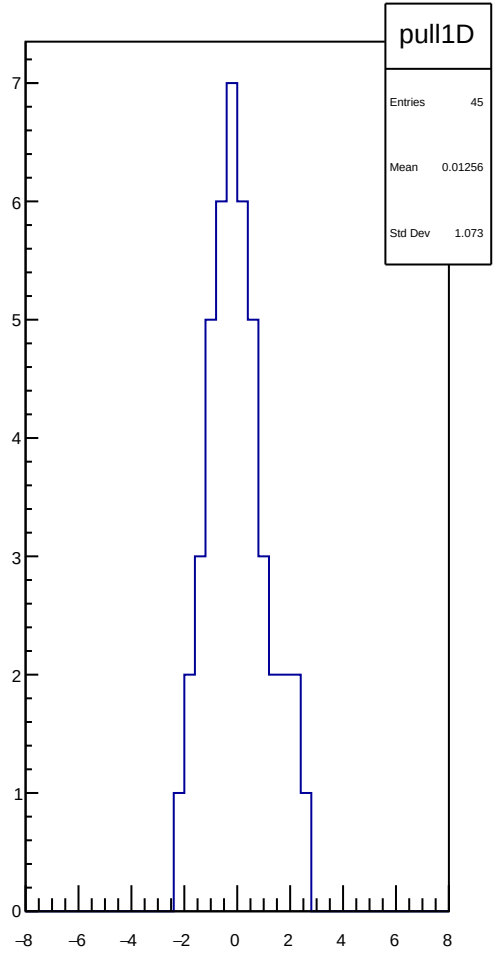

asym_us_avg_rms vs run
χ² / ndf 2.691e+04 / 44
p0 257.1 ± 0.2786
400
380
360
340
320
300
280
260
240
220
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

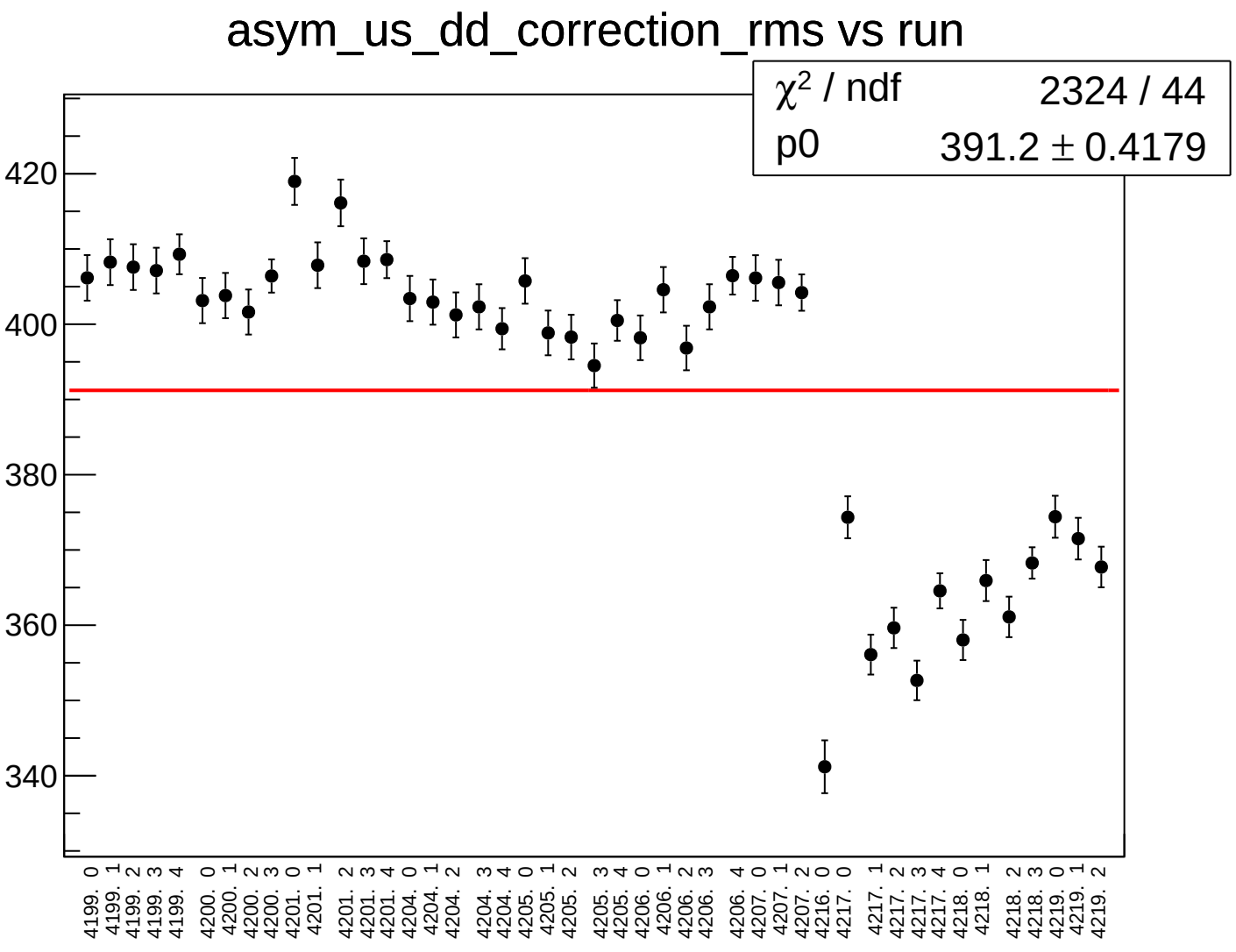

reg_asym_us_dd_mean vs run
χ² / ndf 49.31 / 44
p0 −49.53 ± 141
3000
2000
1000
0
−1000
−2000
−3000
−4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 988.2
Std Dev 961.2
2
1
0
−1
−2

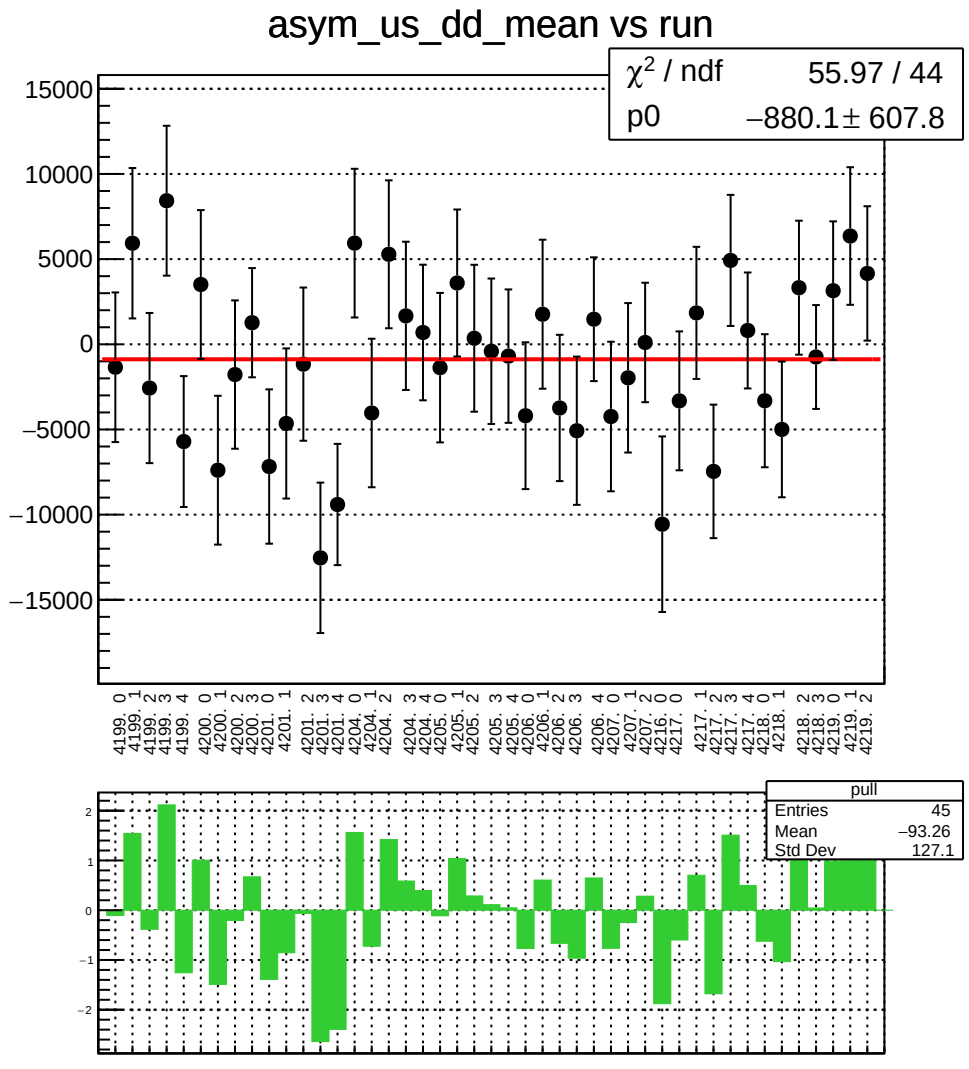

pull1D
Entries 45
Mean 0.004088
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

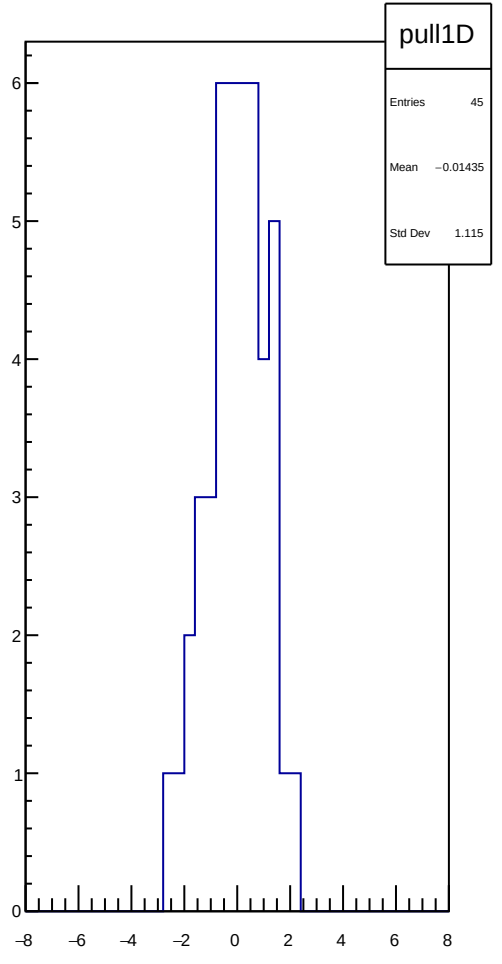

reg_asym_us_dd_rms vs run
χ^2 / ndf 175.3 / 44
p0 93.43 ± 0.09969
99
98
97
96
95
94
93
92
91
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

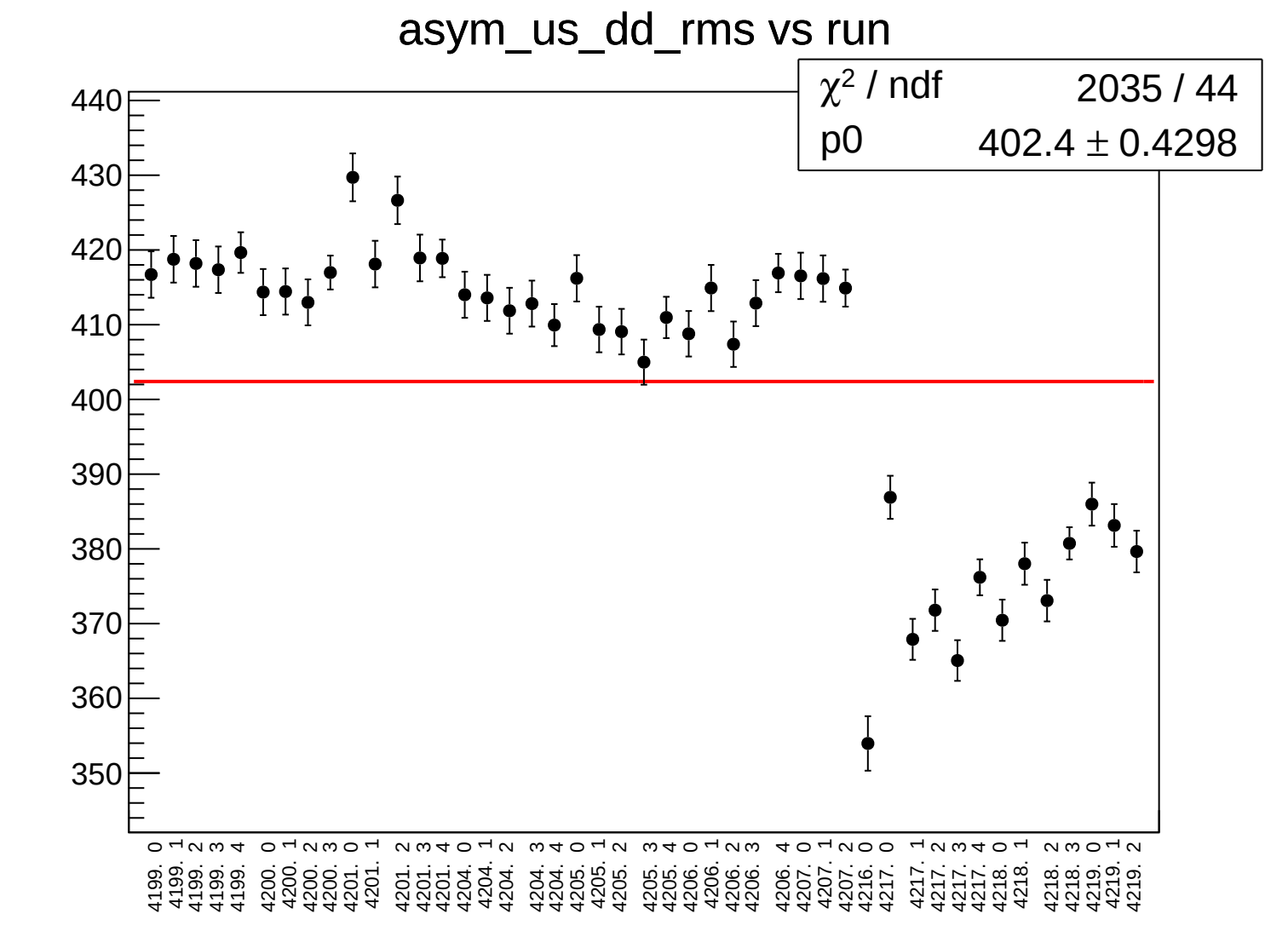

asym_us_dd_correction_mean vs run
χ² / ndf 51.82 / 44
p0 860.8 ± 591
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −35.55
Std Dev 77.27
2
1
0
−1
−2

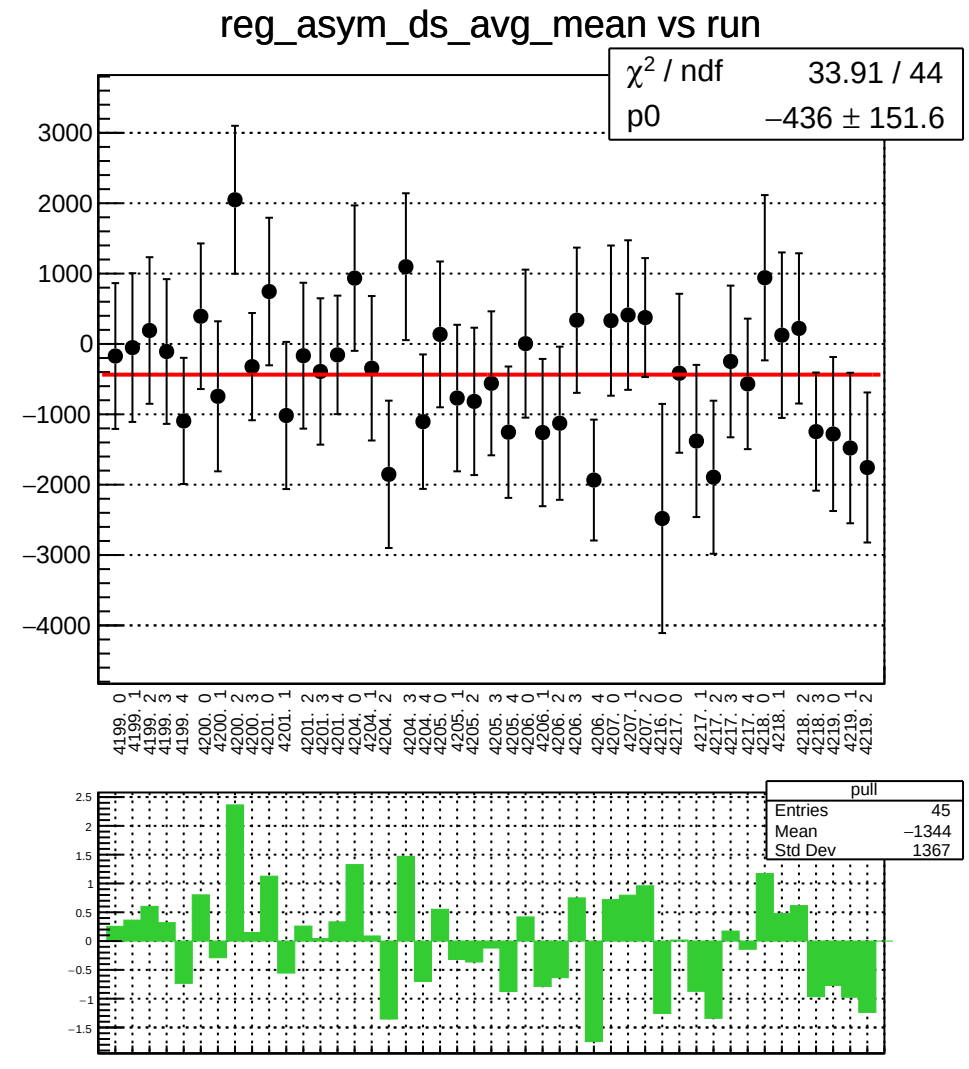

pull1D
Entries 45
Mean 0.01256
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

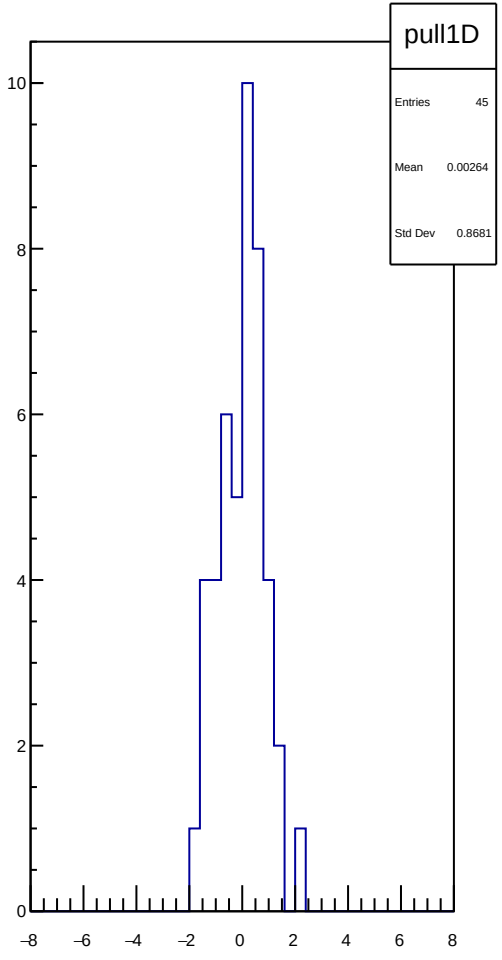

asym_us_dd_correction_rms vs run
χ² / ndf 2324 / 44
p0 391.2 ± 0.4179
420
400
380
360
340
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

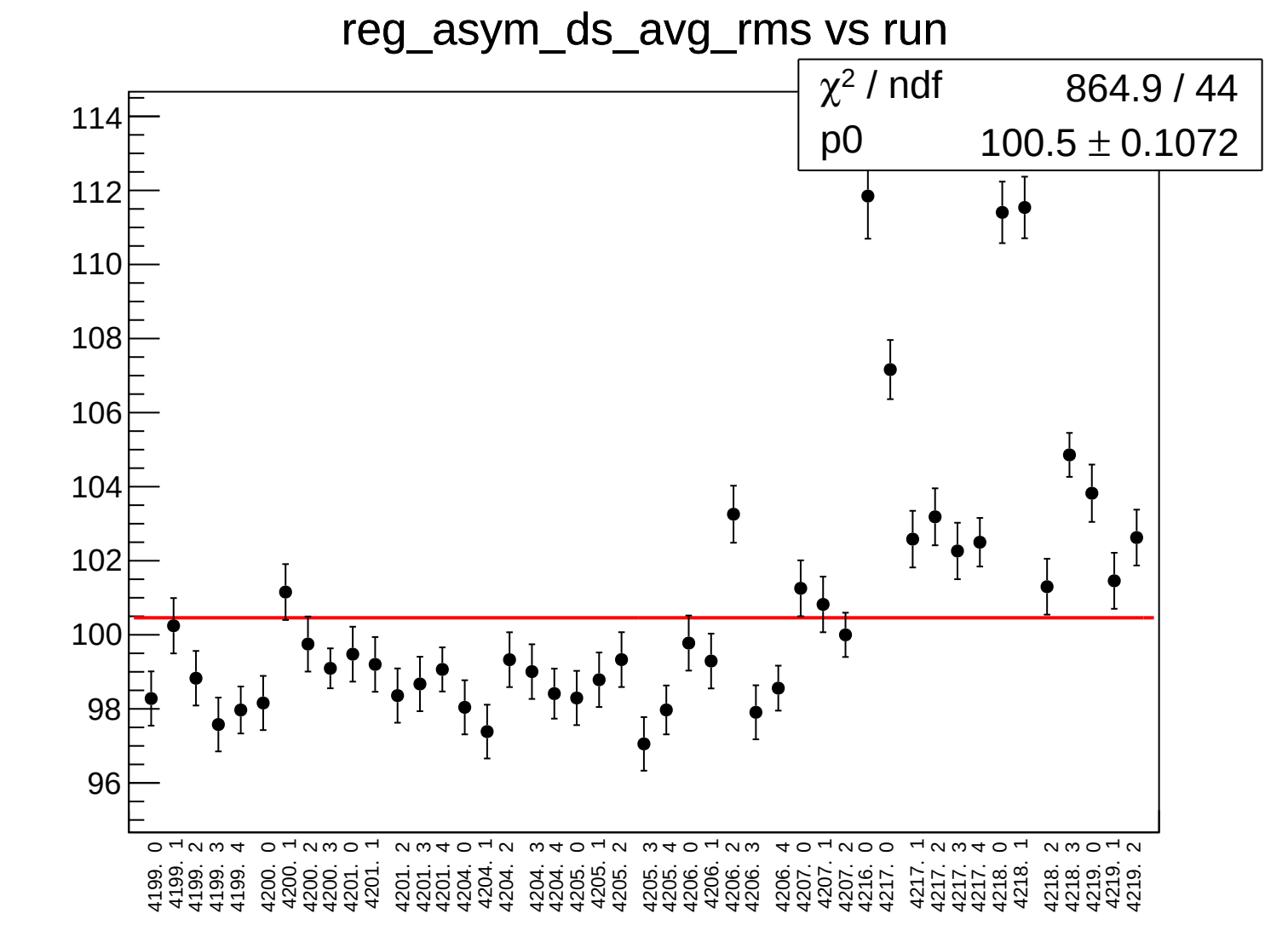

asym_us_dd_mean vs run
χ² / ndf 55.97 / 44
p0 −880.1 ± 607.8
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −93.26
Std Dev 127.1
2
1
0
−1
−2

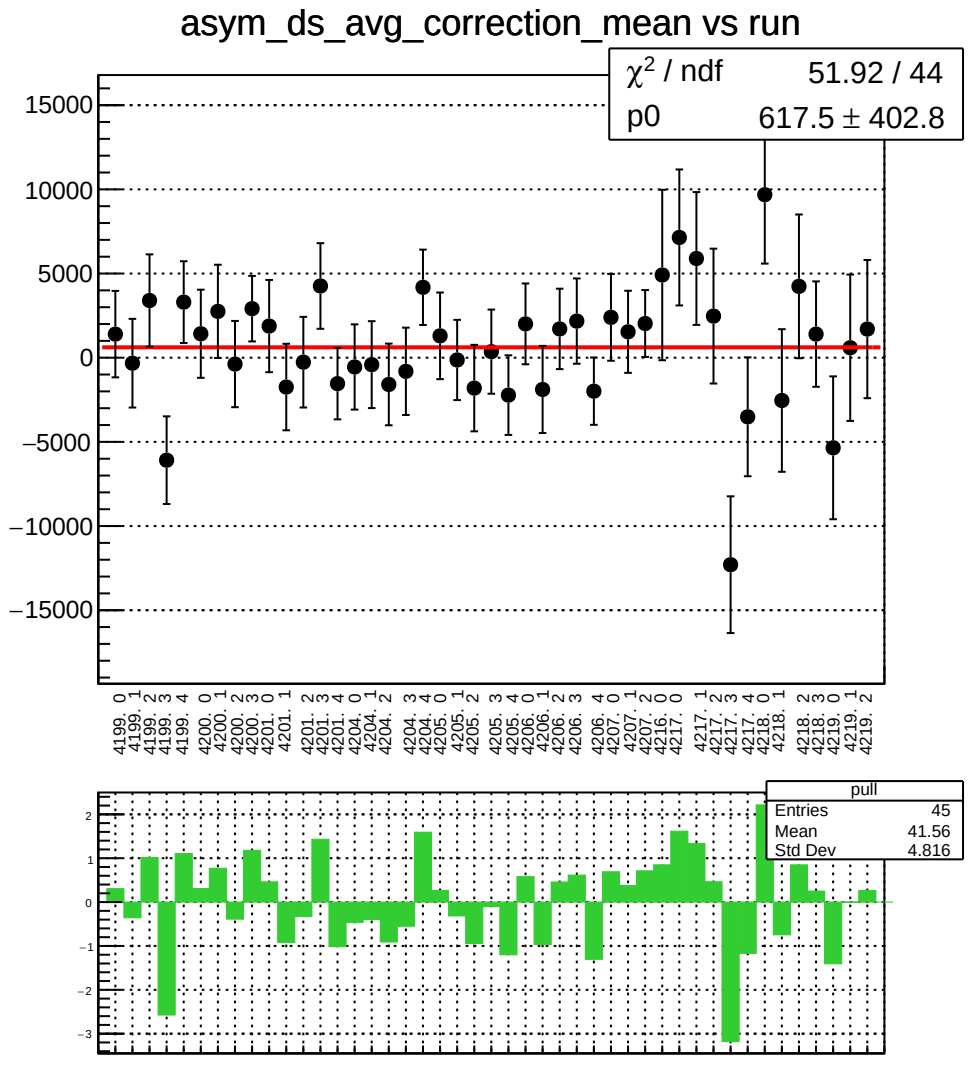

pull1D
Entries 45
Mean −0.01435
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

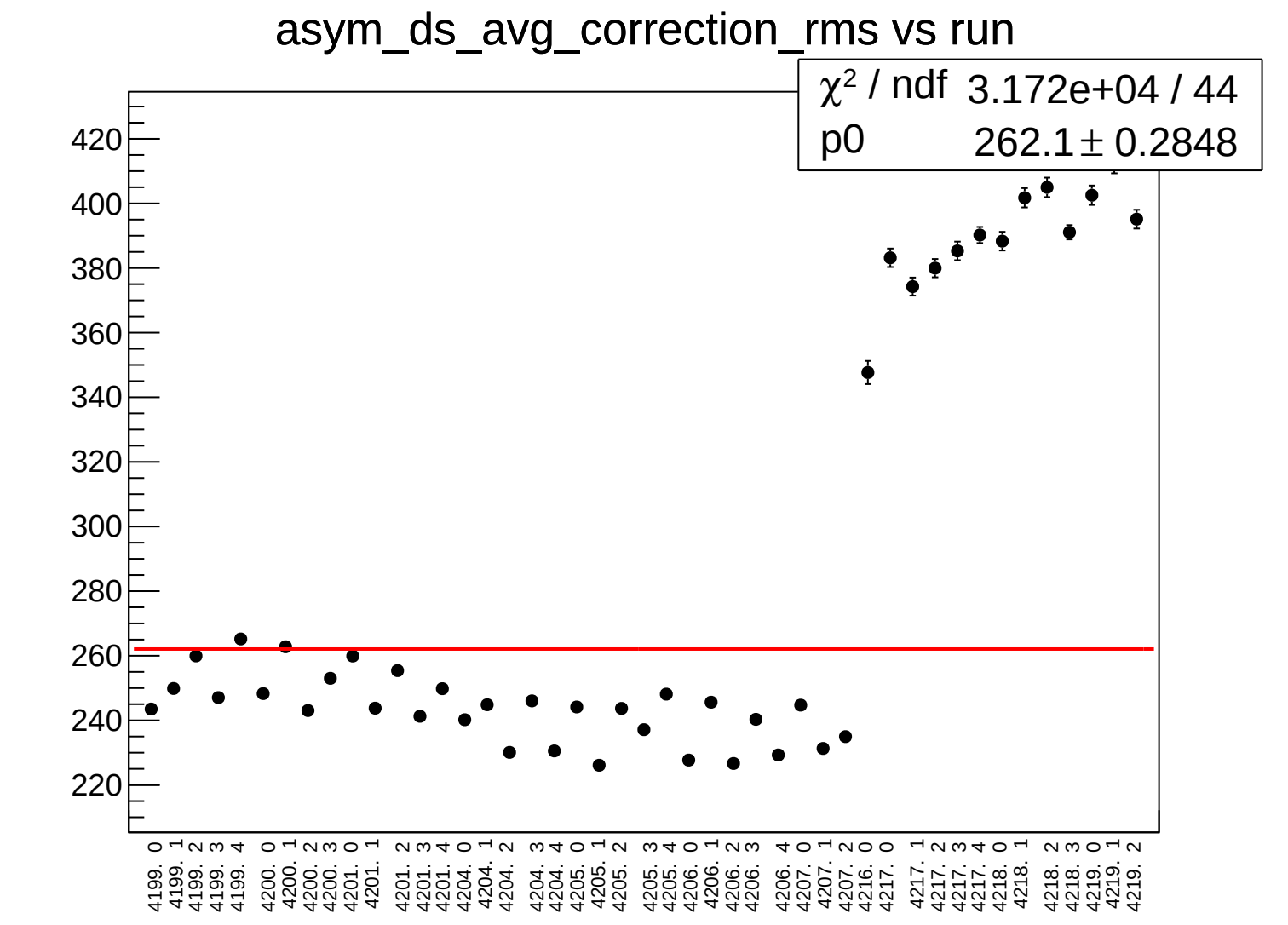

asym_us_dd_rms vs run
χ² / ndf 2035 / 44
p0 402.4 ± 0.4298
440
430
420
410
400
390
380
370
360
350
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

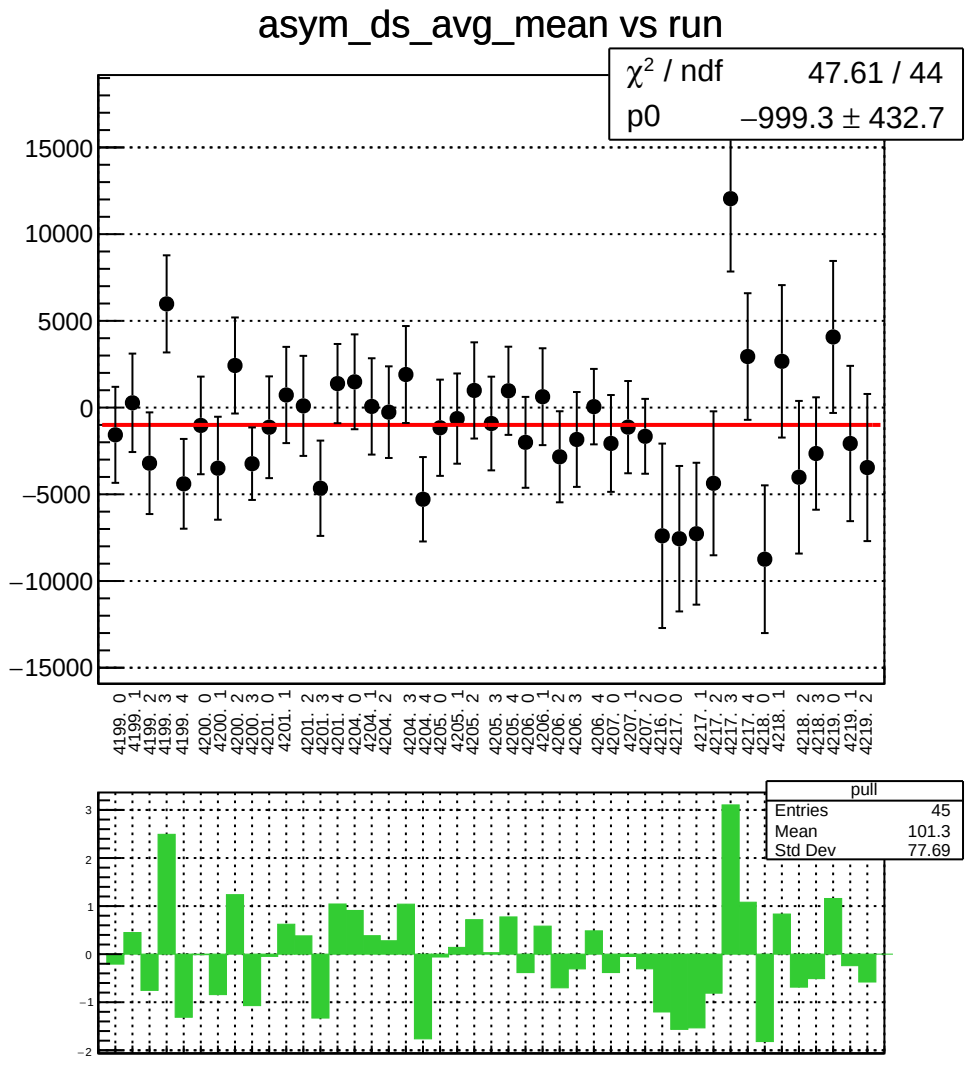

reg_asym_ds_avg_mean vs run
χ² / ndf 33.91 / 44
p0 −436 ± 151.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1344
Std Dev 1367
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

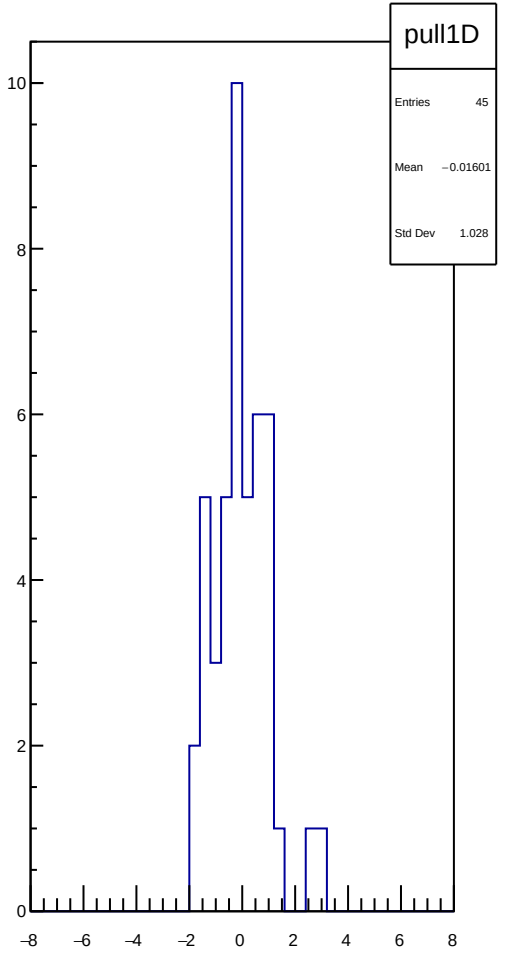

pull1D
Entries 45
Mean 0.00264
Std Dev 0.8681
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

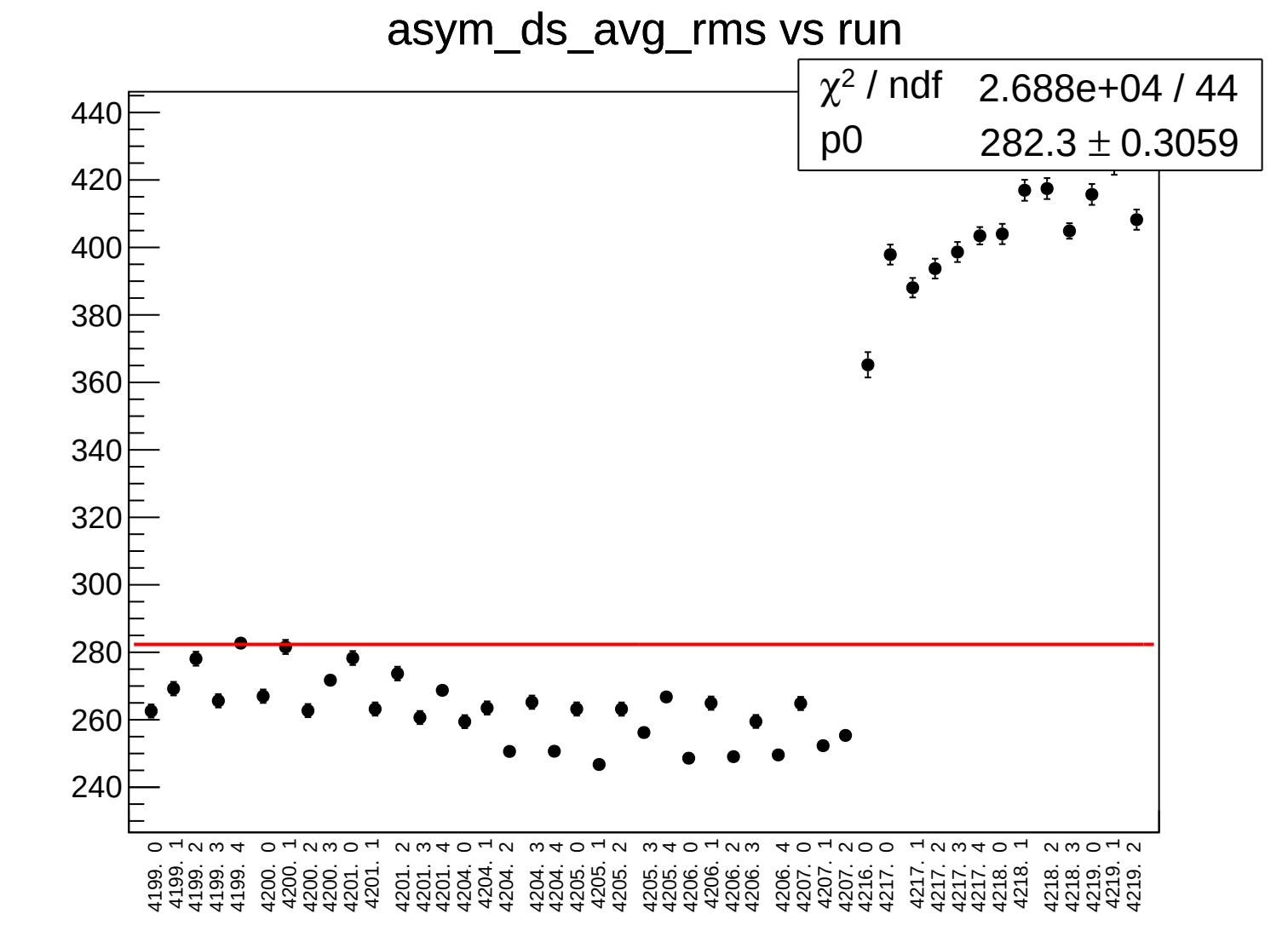

reg_asym_ds_avg_rms vs run
χ² / ndf 864.9 / 44
p0 100.5 ± 0.1072
114
112
110
108
106
104
102
100
98
96
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

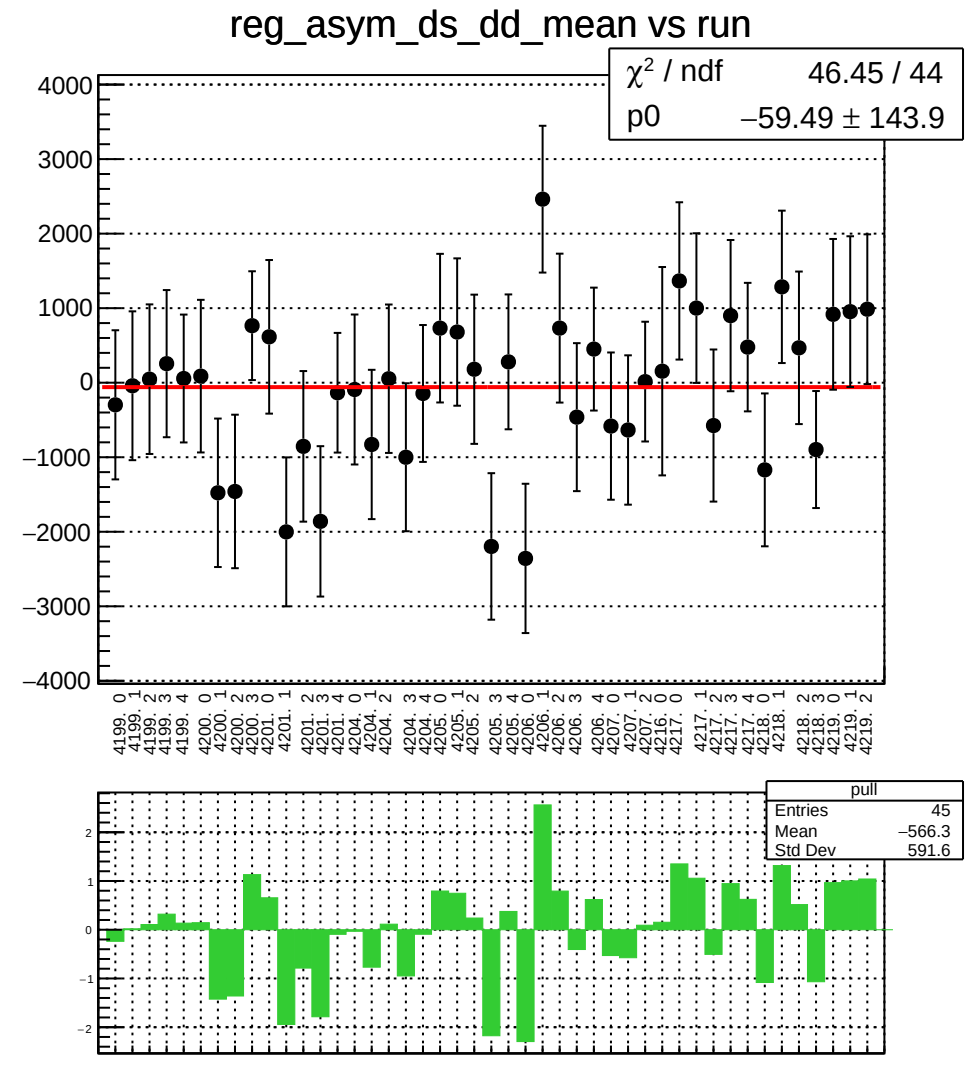

asym_ds_avg_correction_mean vs run
χ² / ndf 51.92 / 44
p0 617.5 ± 402.8
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 41.56
Std Dev 4.816
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01031
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

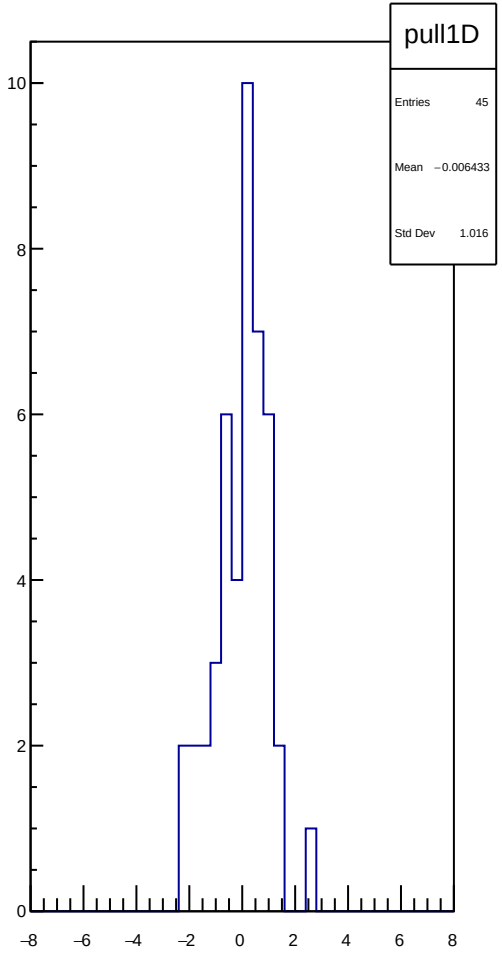

asym_ds_avg_correction_rms vs run
χ² / ndf 3.172e+04 / 44
p0 262.1 ± 0.2848
420
400
380
360
340
320
300
280
260
240
220
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

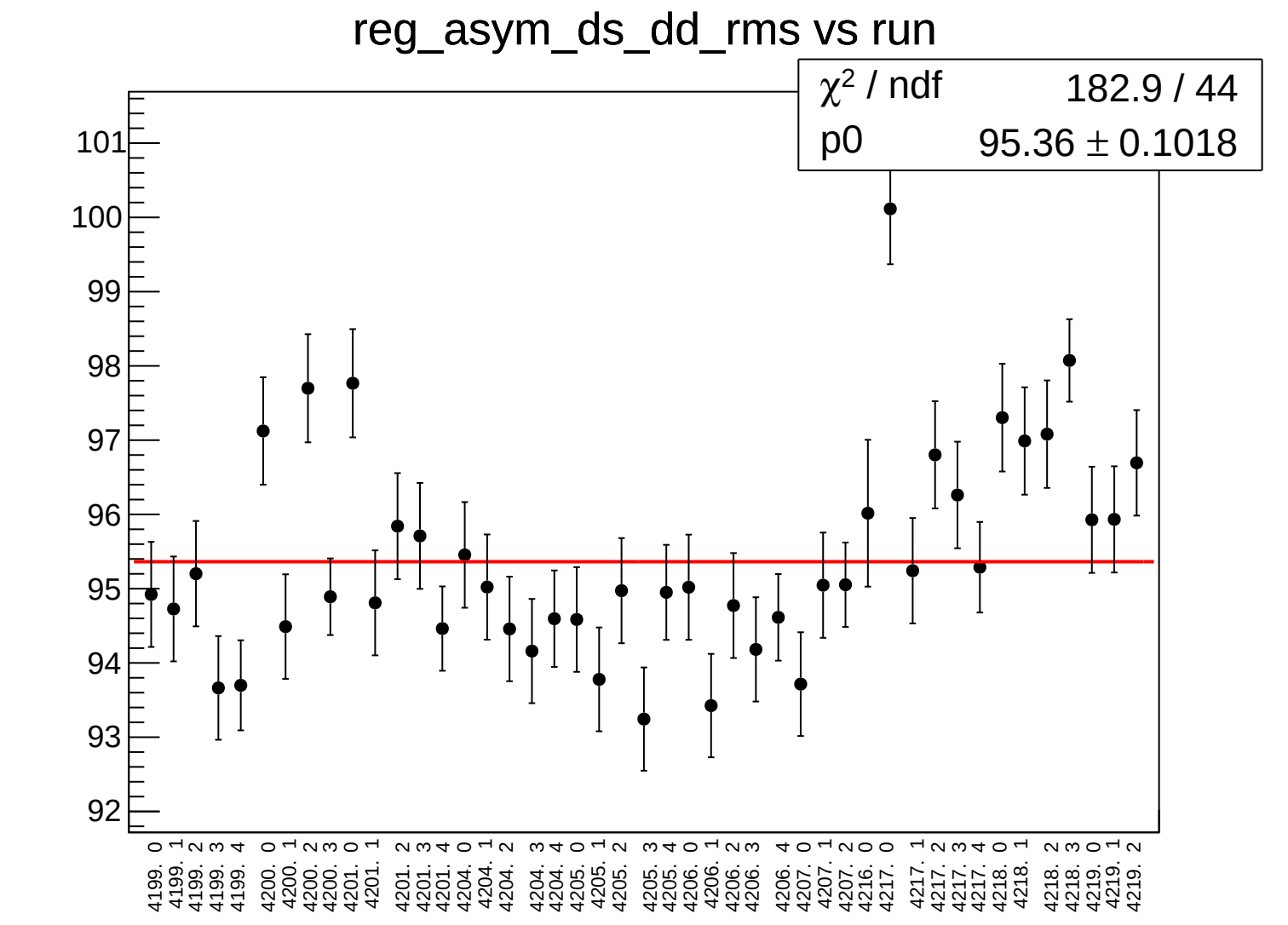

asym_ds_avg_mean vs run
χ² / ndf 47.61 / 44
p0 −999.3 ± 432.7
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 101.3
Std Dev 77.69
3
2
1
0
−1
−2

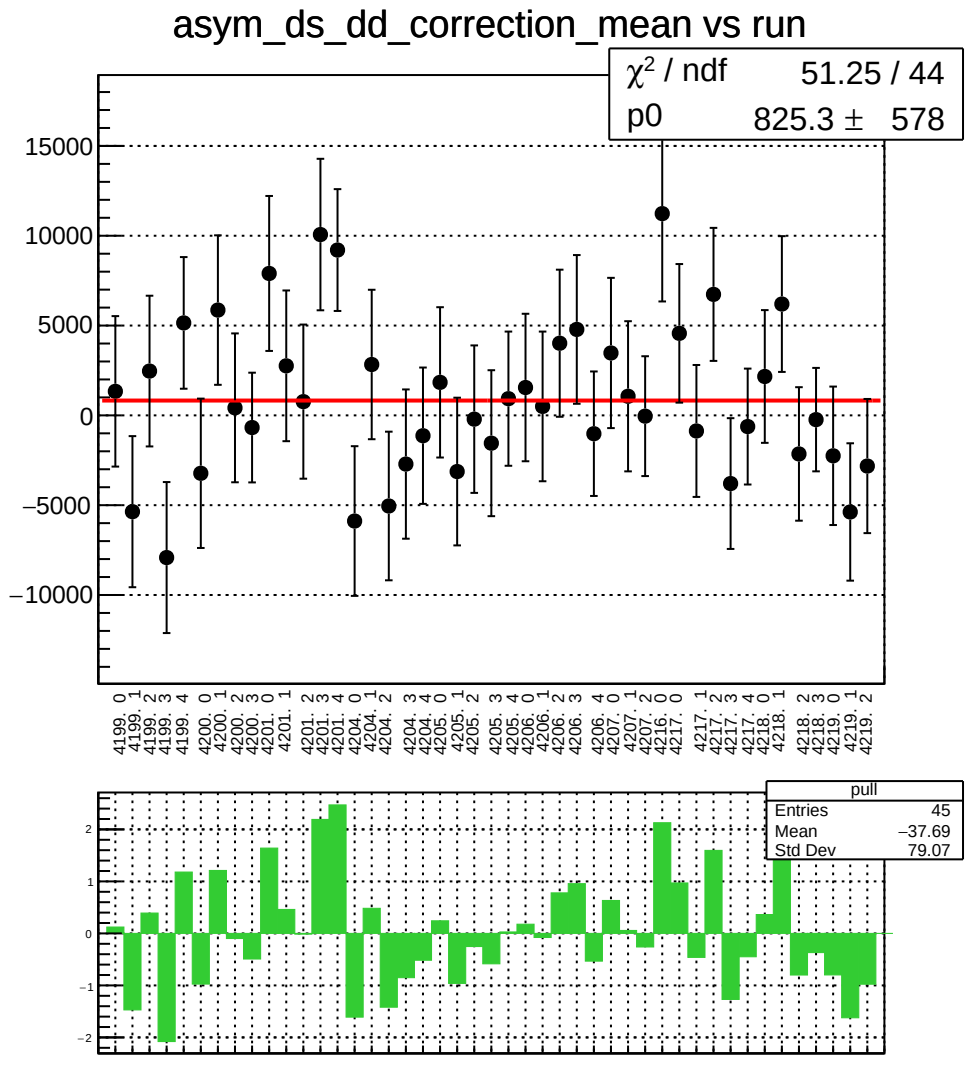

pull1D
Entries 45
Mean −0.01601
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

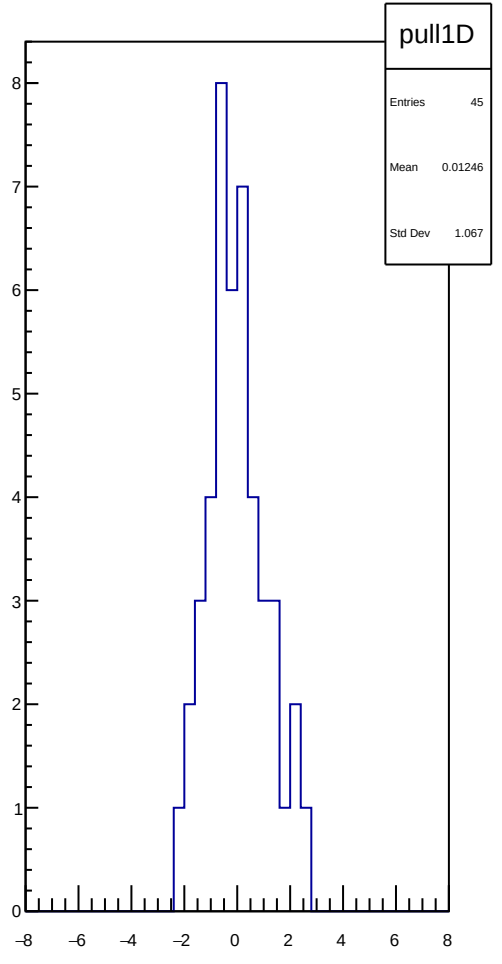

asym_ds_avg_rms vs run
χ^2 / ndf 2.688e+04 / 44
p0 282.3 ± 0.3059
440
420
400
380
360
340
320
300
280
260
240
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

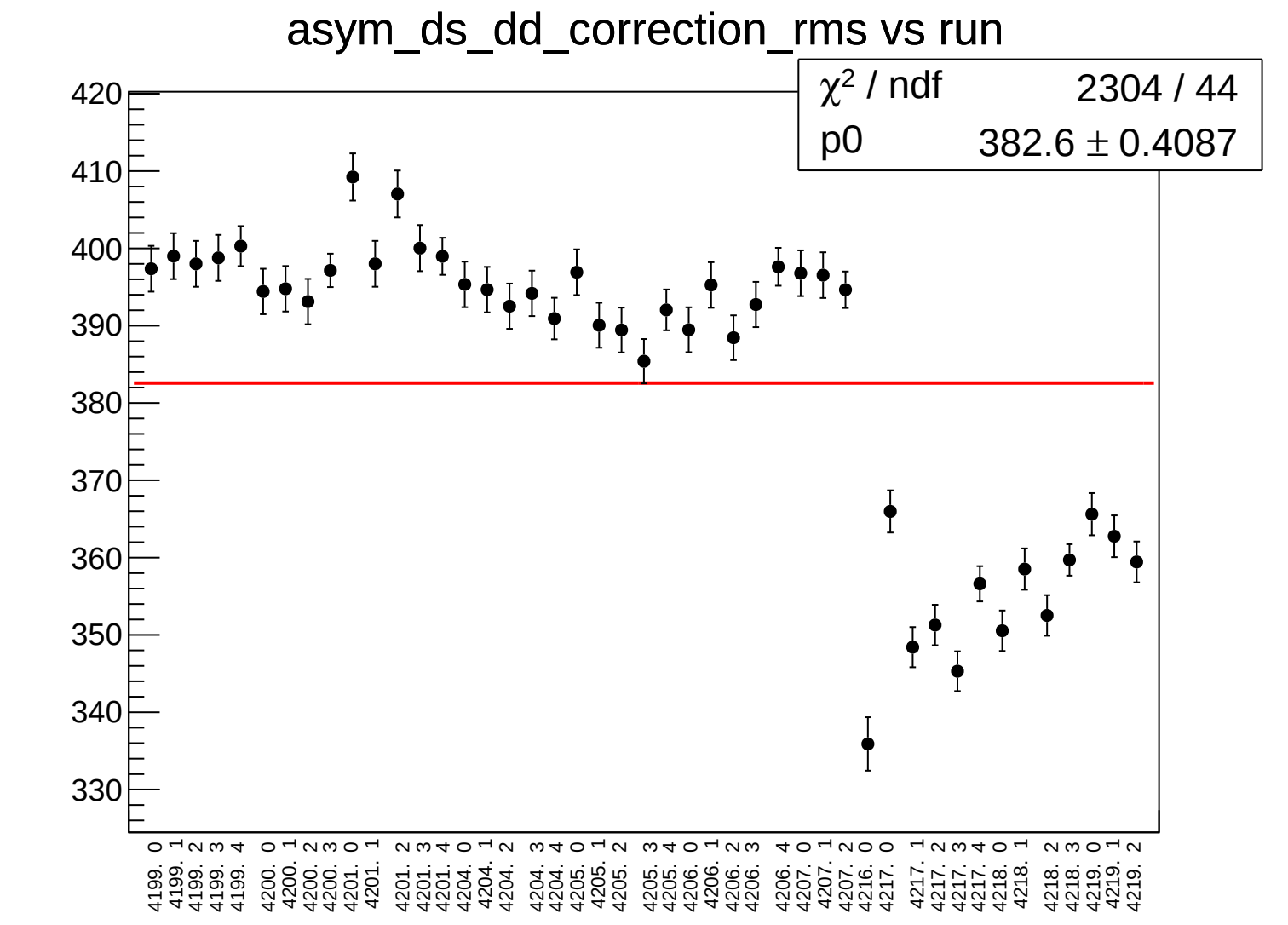

reg_asym_ds_dd_mean vs run
χ² / ndf 46.45 / 44
p0 −59.49 ± 143.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −566.3
Std Dev 591.6
2
1
0
−1
−2

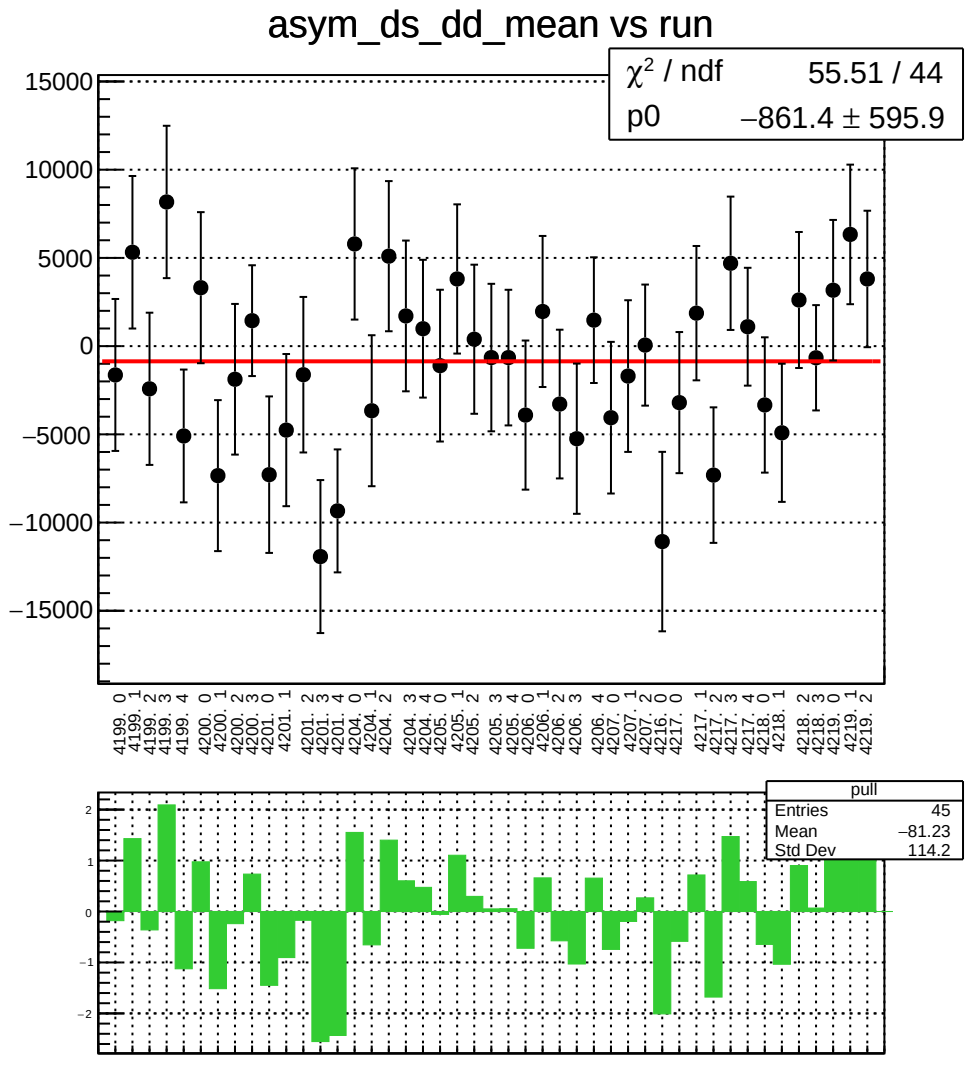

pull1D
Entries 45
Mean −0.006433
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

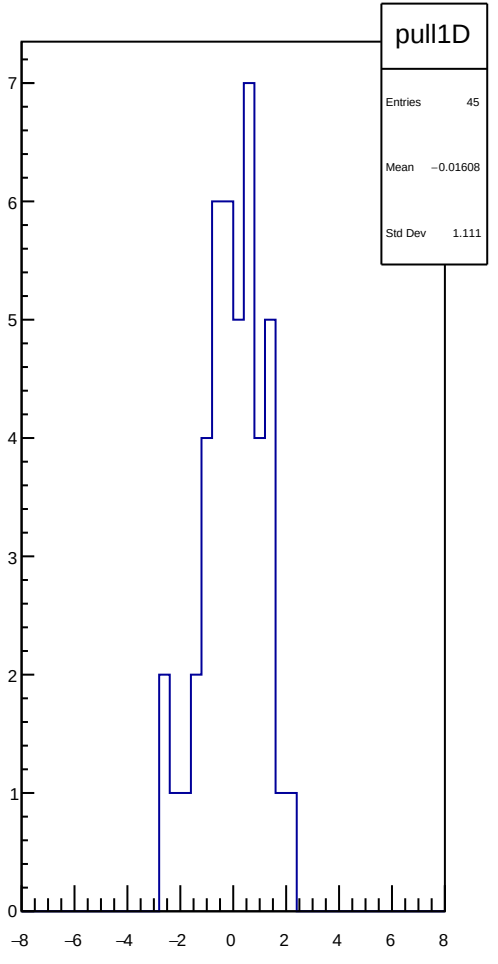

reg_asym_ds_dd_rms vs run
χ² / ndf 182.9 / 44
p0 95.36 ± 0.1018
101
100
99
98
97
96
95
94
93
92
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

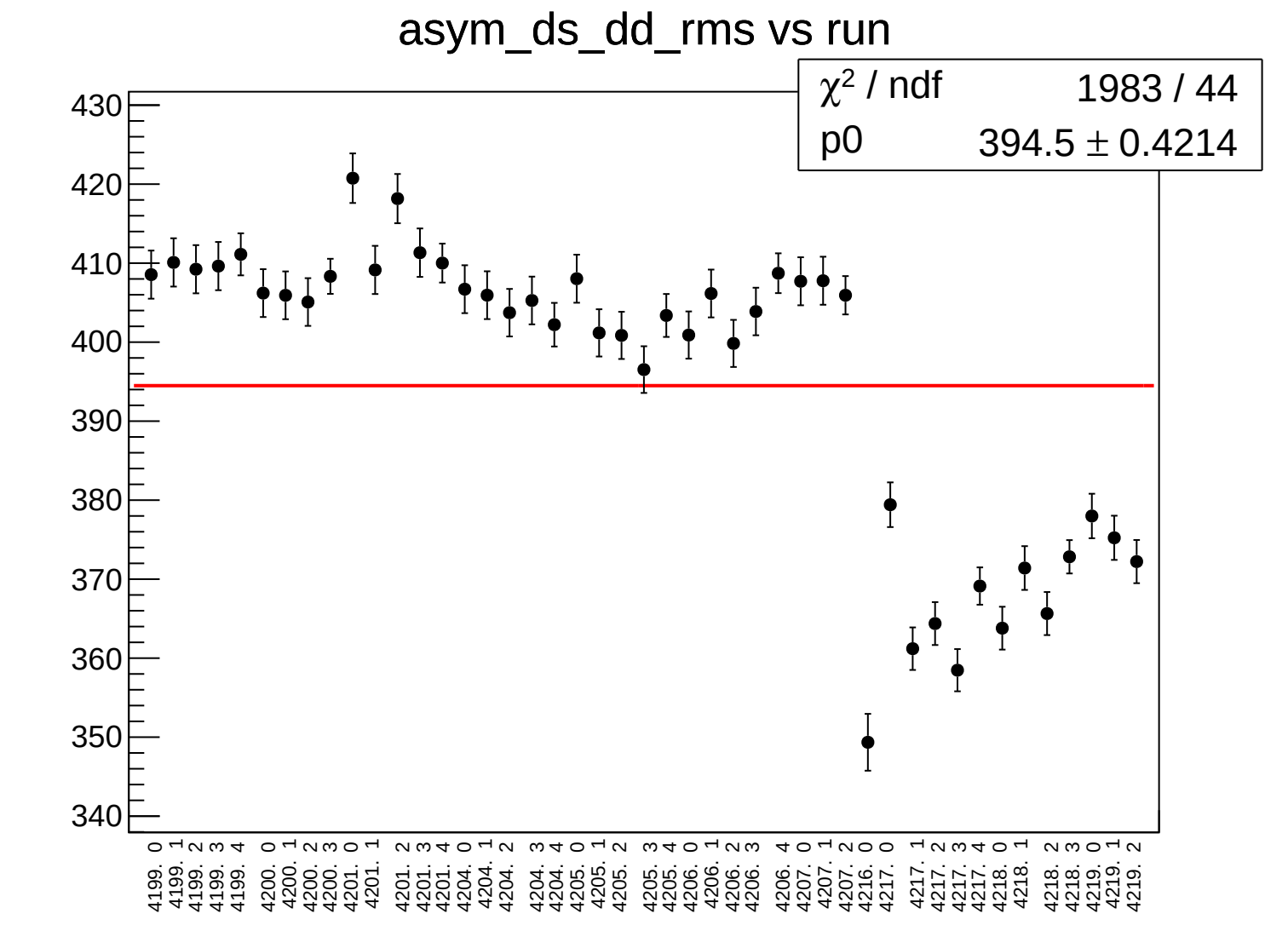

asym_ds_dd_correction_mean vs run
χ² / ndf 51.25 / 44
p0 825.3 ± 578
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −37.69
Std Dev 79.07
2
1
0
−1
−2

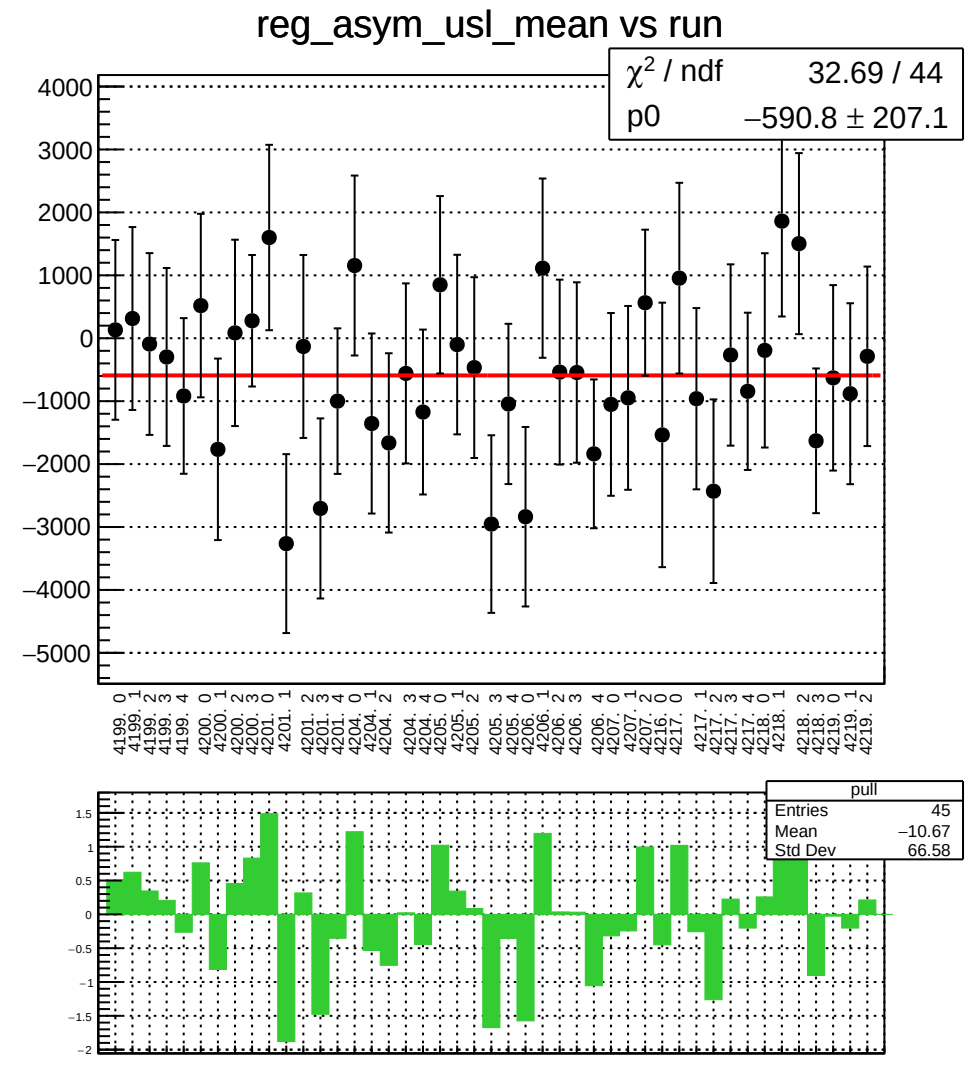

pull1D
Entries 45
Mean 0.01246
Std Dev 1.067
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

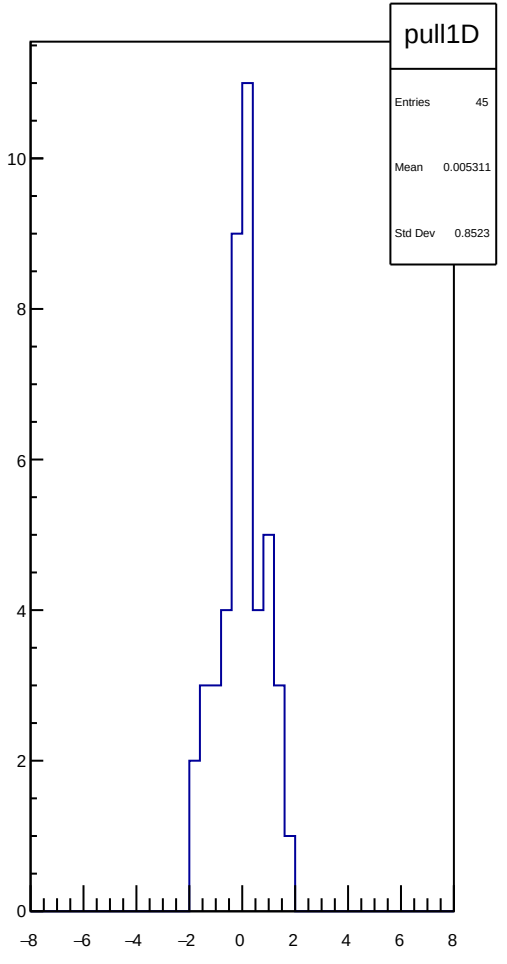

asym_ds_dd_correction_rms vs run
χ² / ndf 2304 / 44
p0 382.6 ± 0.4087
420
410
400
390
380
370
360
350
340
330
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

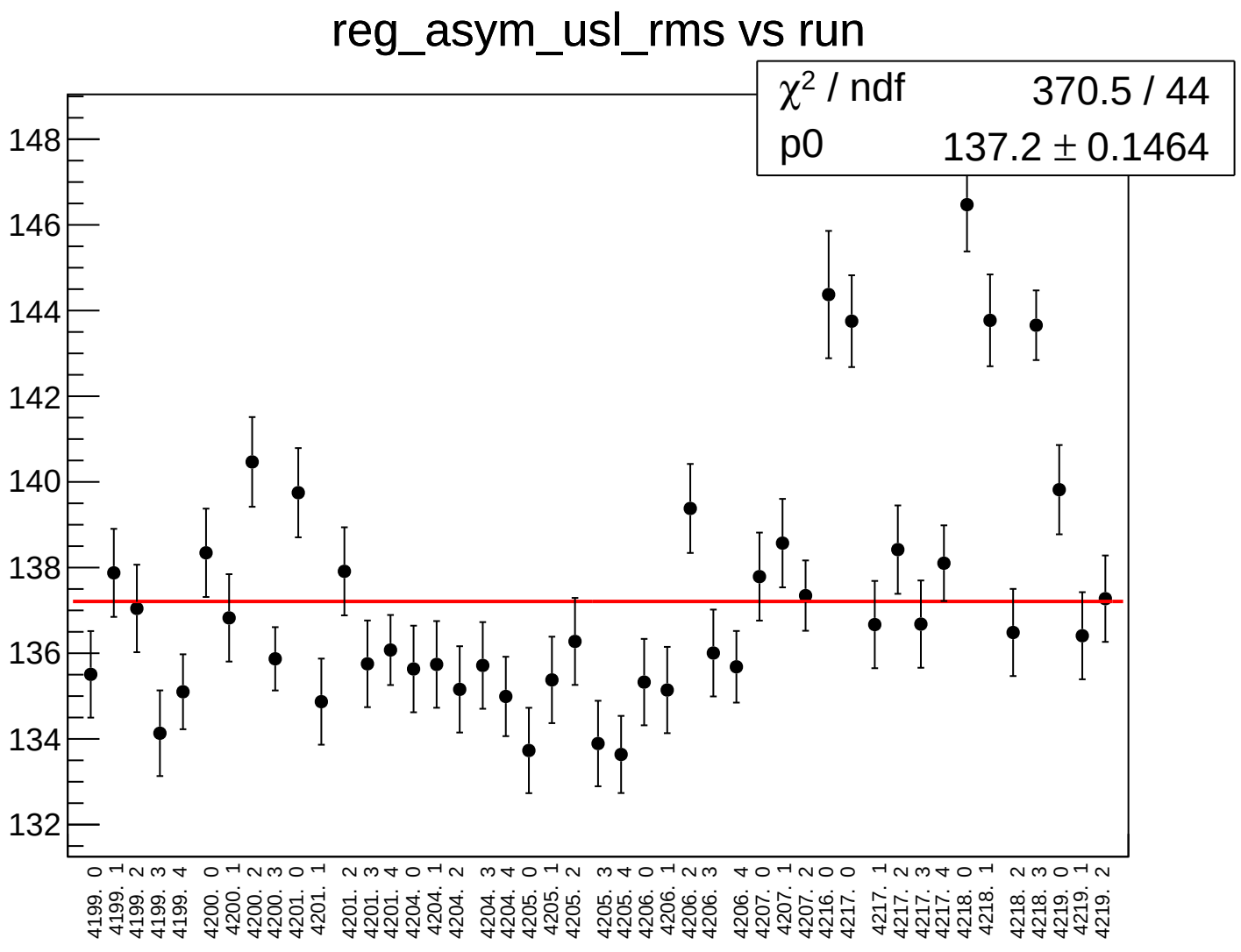

asym_ds_dd_mean vs run
χ² / ndf 55.51 / 44
p0 −861.4 ± 595.9
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −81.23
Std Dev 114.2
2
1
0
−1
−2

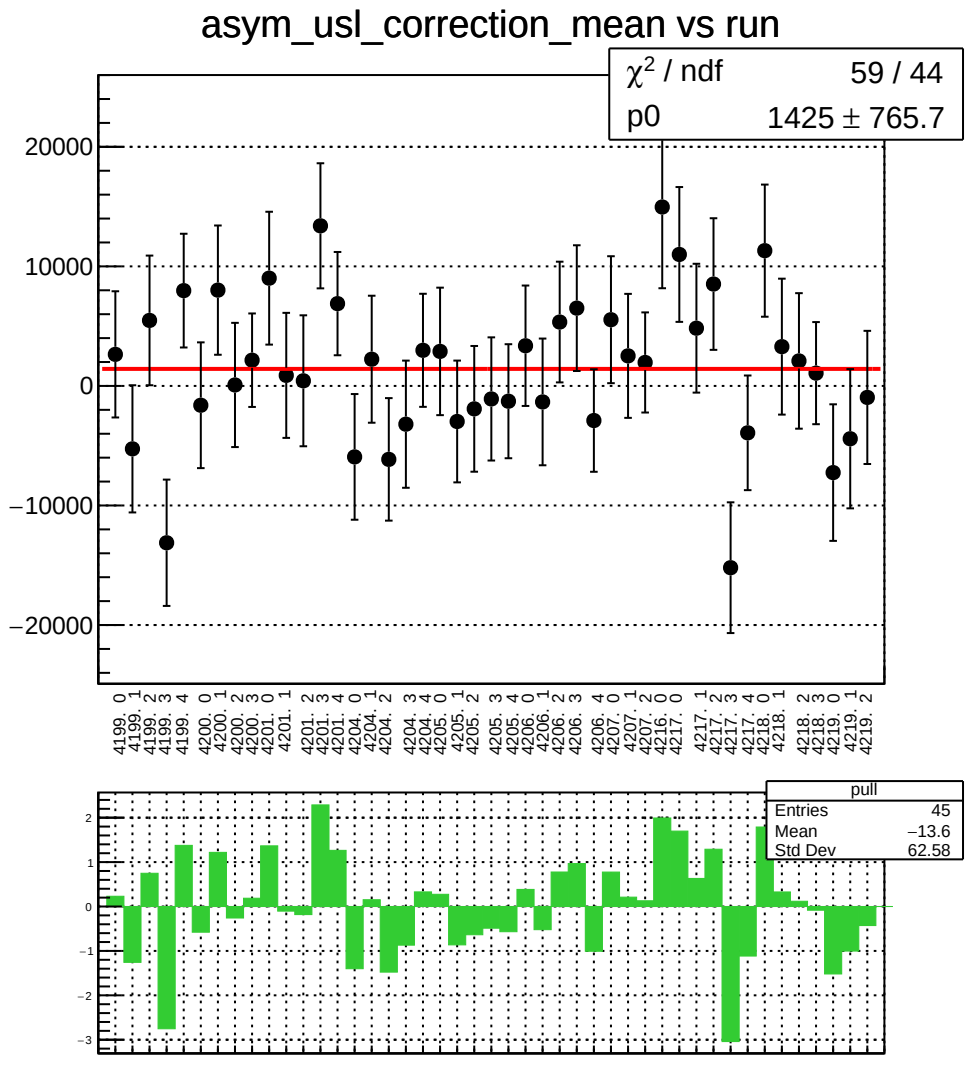

pull1D
Entries 45
Mean −0.01608
Std Dev 1.111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

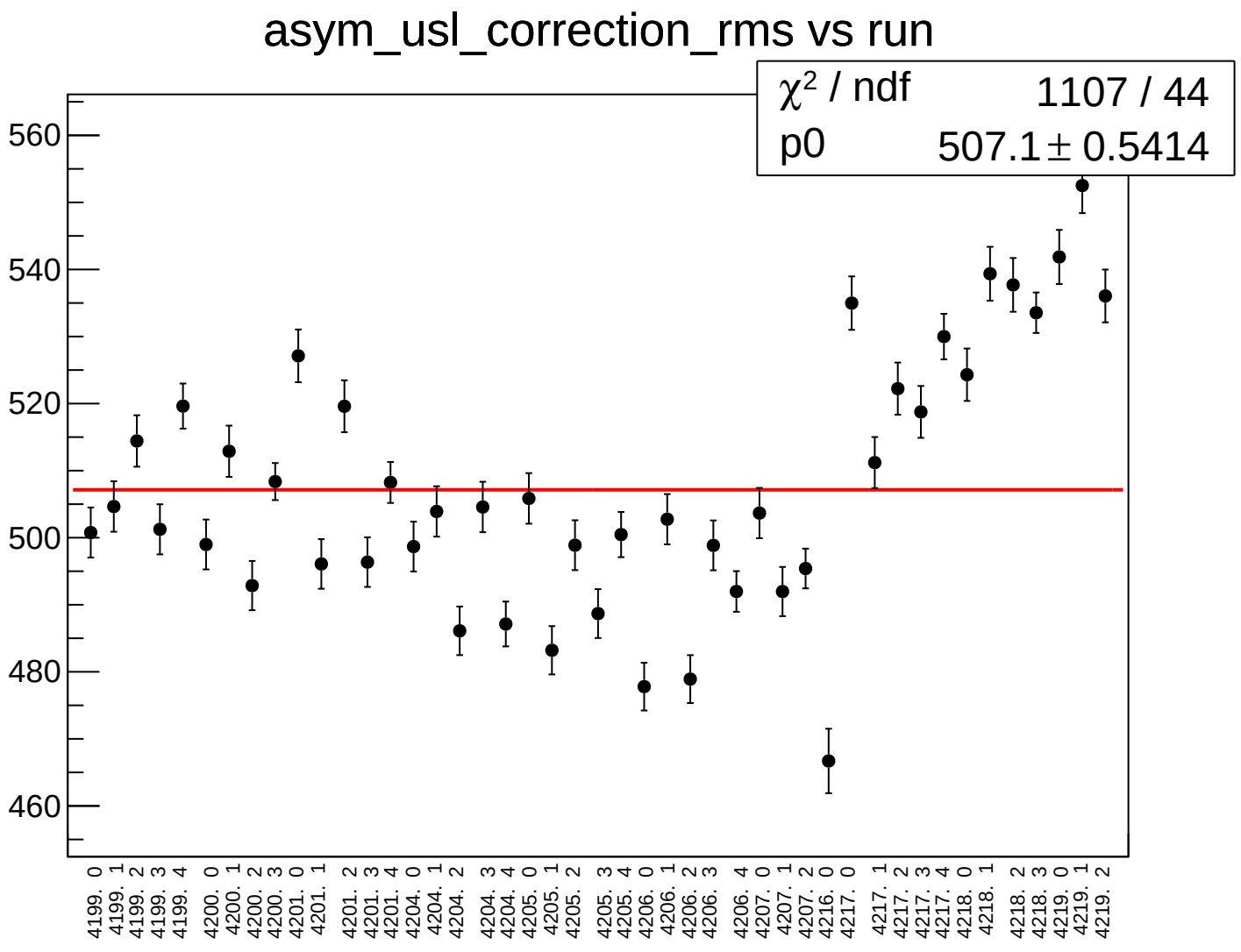

asym_ds_dd_rms vs run
χ² / ndf 1983 / 44
p0 394.5 ± 0.4214
430
420
410
400
390
380
370
360
350
340
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

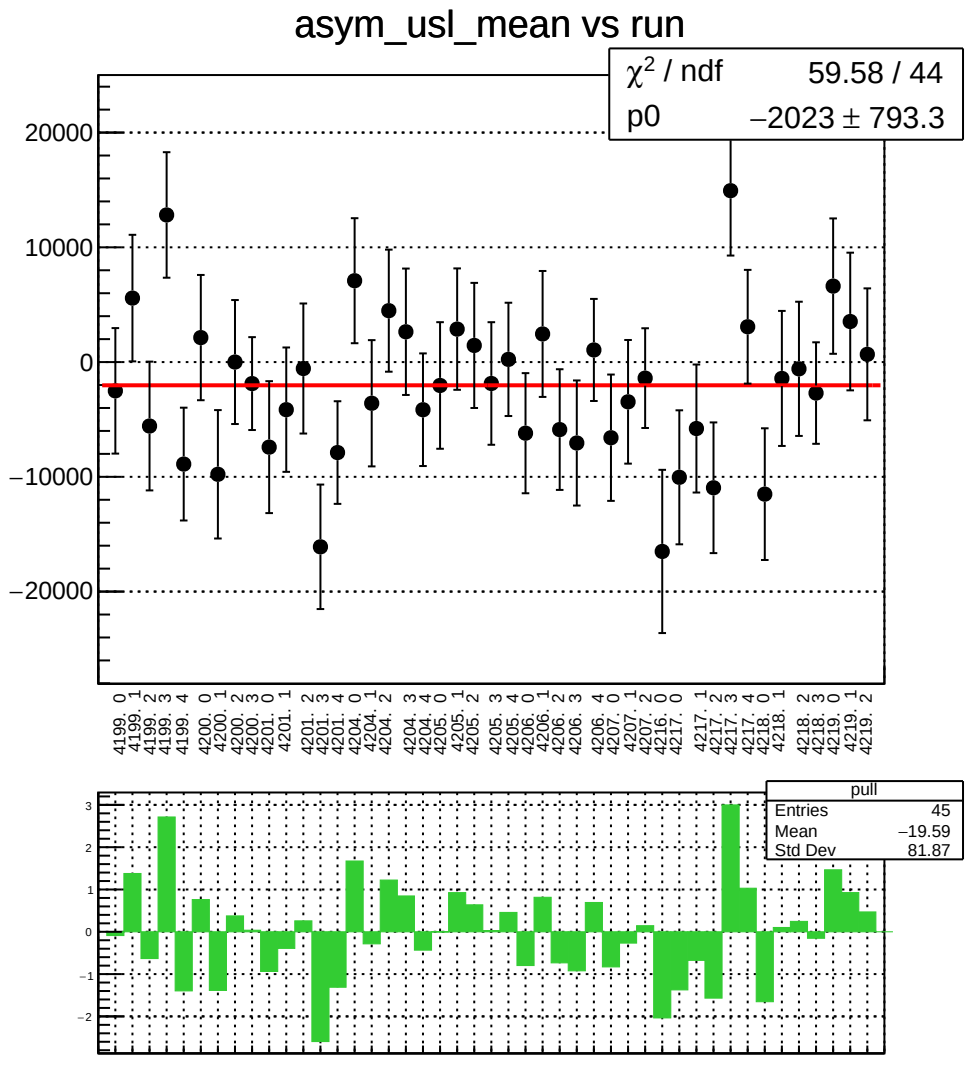

reg_asym_usl_mean vs run
χ² / ndf 32.69 / 44
p0 −590.8 ± 207.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −10.67
Std Dev 66.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

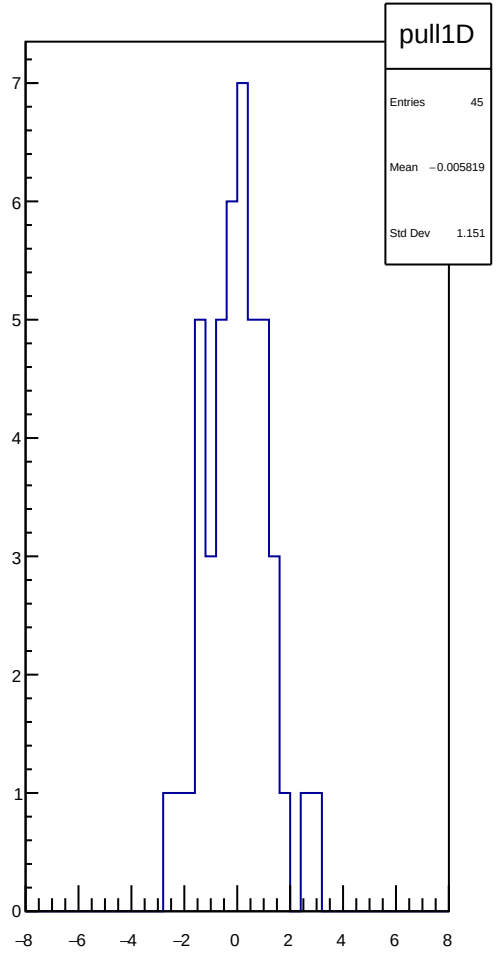

pull1D
Entries 45
Mean 0.005311
Std Dev 0.8523
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

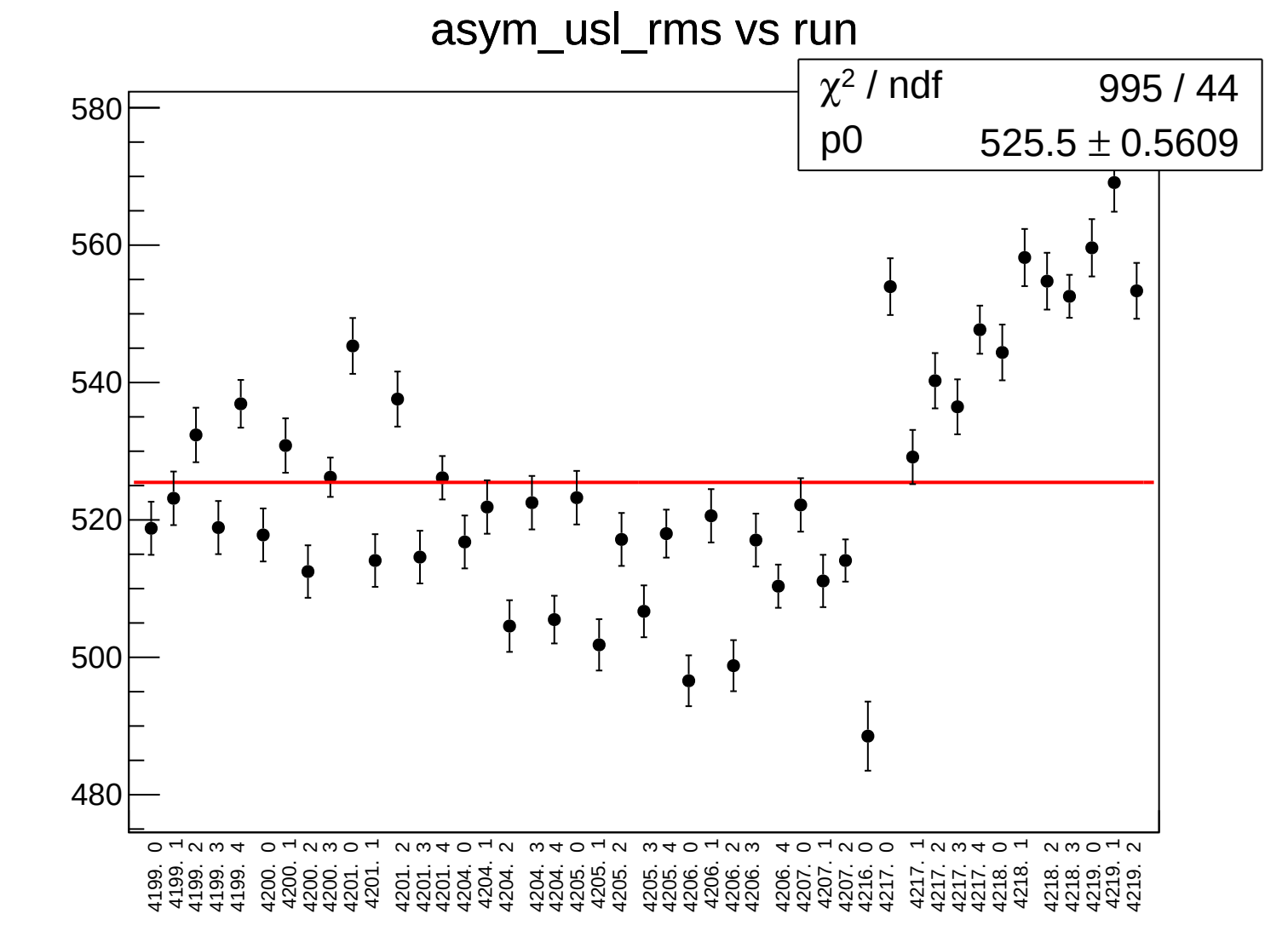

reg_asym_usl_rms vs run
χ² / ndf 370.5 / 44
p0 137.2 ± 0.1464
148
146
144
142
140
138
136
134
132
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

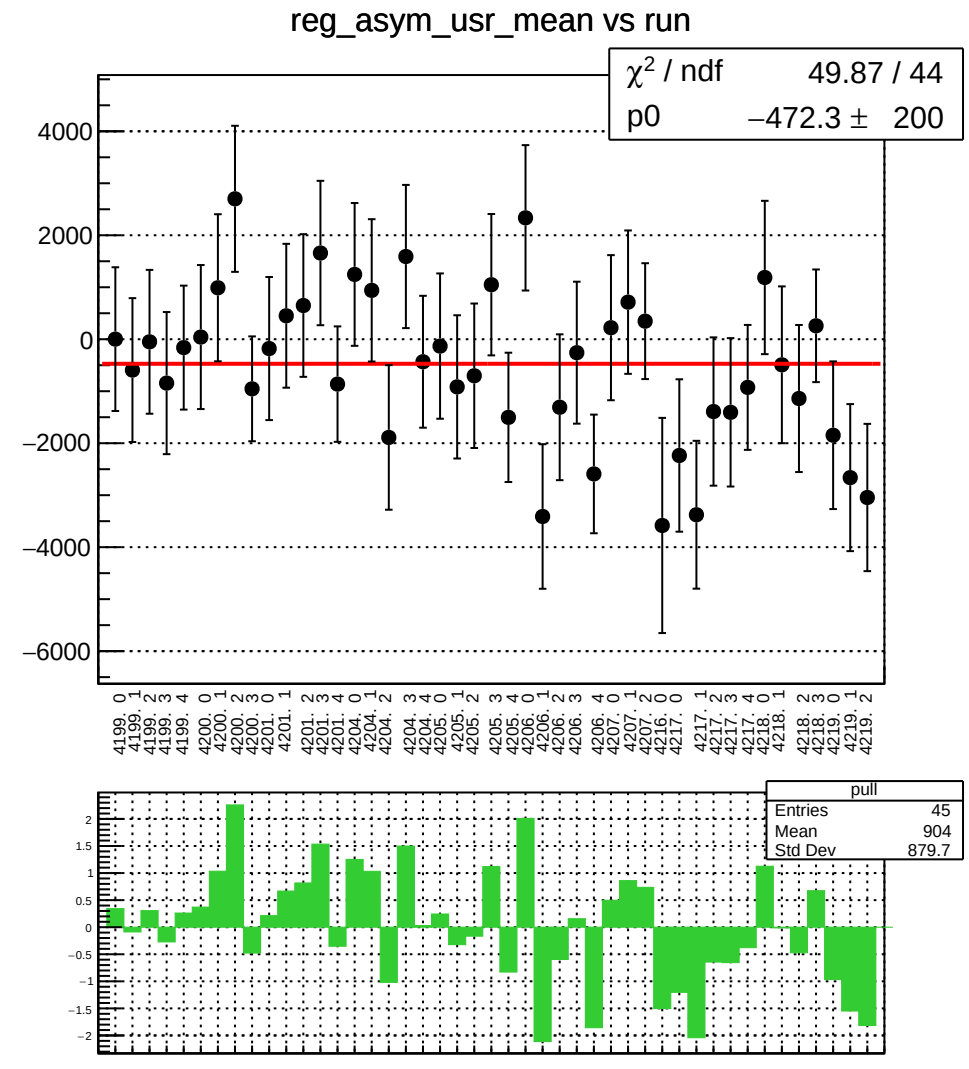

asym_usl_correction_mean vs run
χ² / ndf 59 / 44
p0 1425 ± 765.7
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −13.6
Std Dev 62.58
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.008232
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

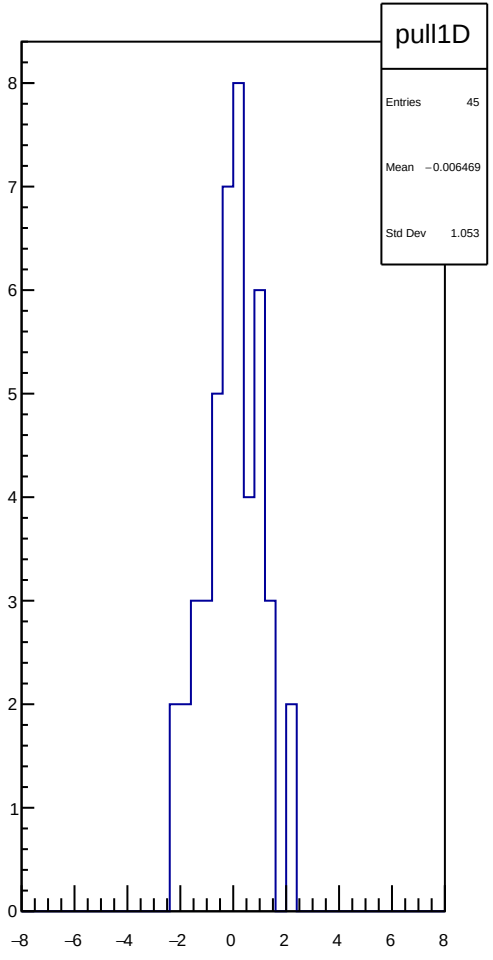

asym_usl_correction_rms vs run
χ² / ndf 1107 / 44
p0 507.1 ± 0.5414
560
540
520
500
480
460
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

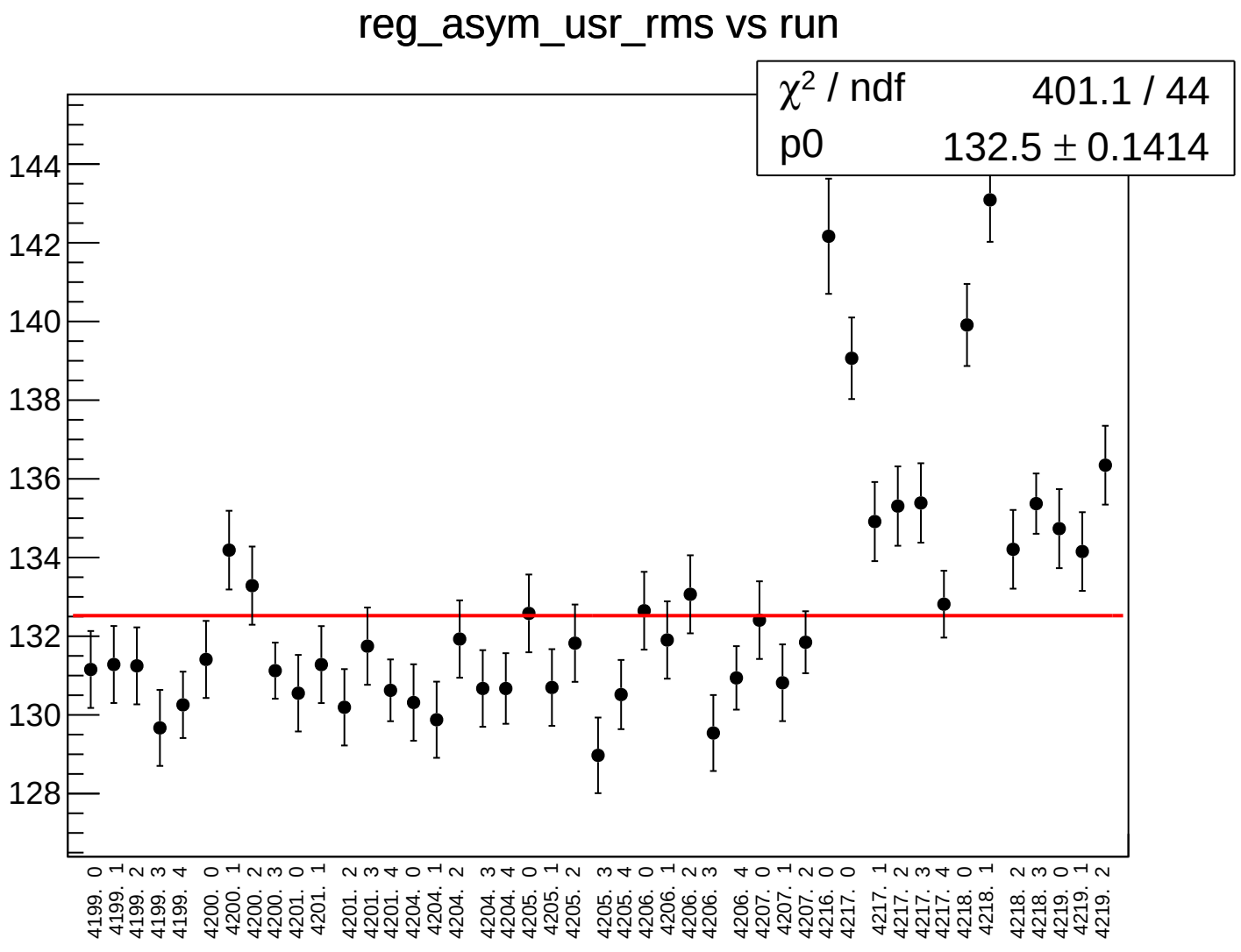

asym_usl_mean vs run
χ² / ndf 59.58 / 44
p0 −2023 ± 793.3
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −19.59
Std Dev 81.87
3
2
1
0
−1
−2

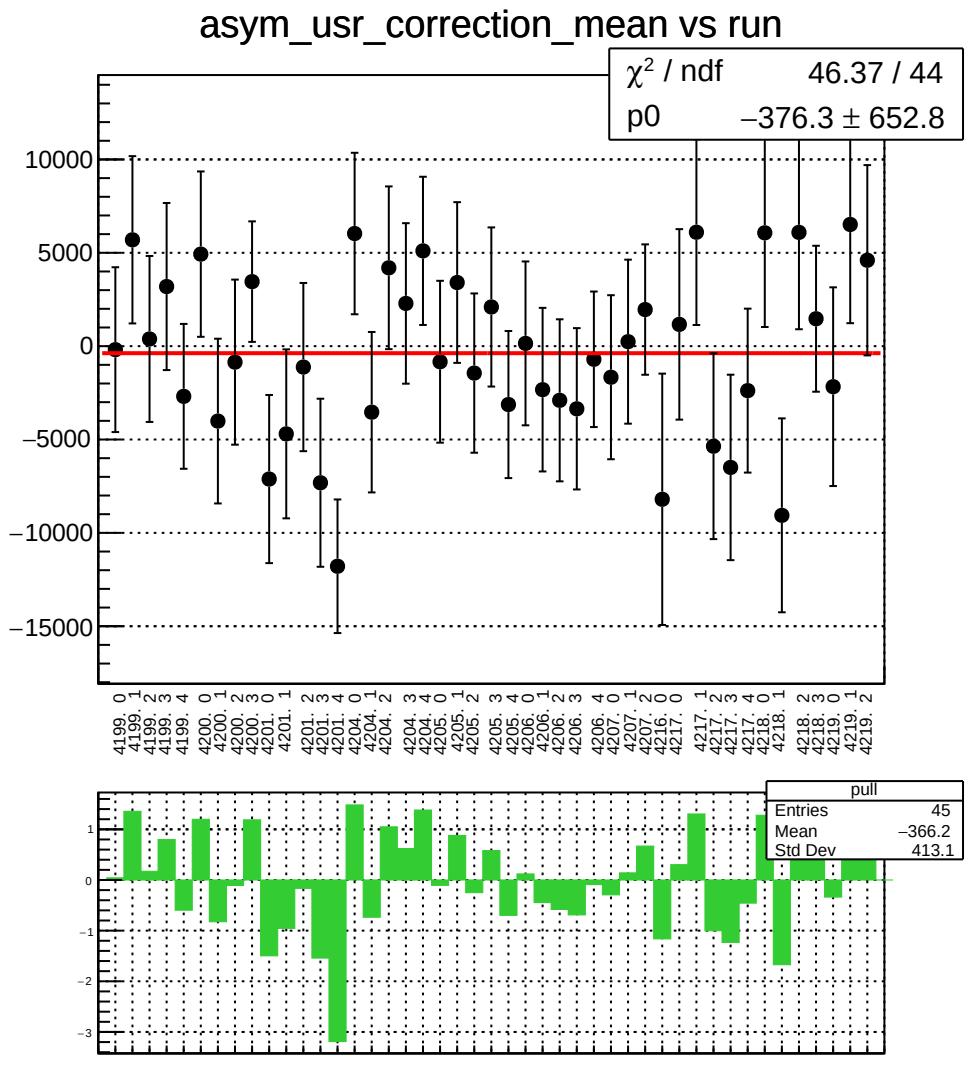

pull1D
Entries 45
Mean −0.005819
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

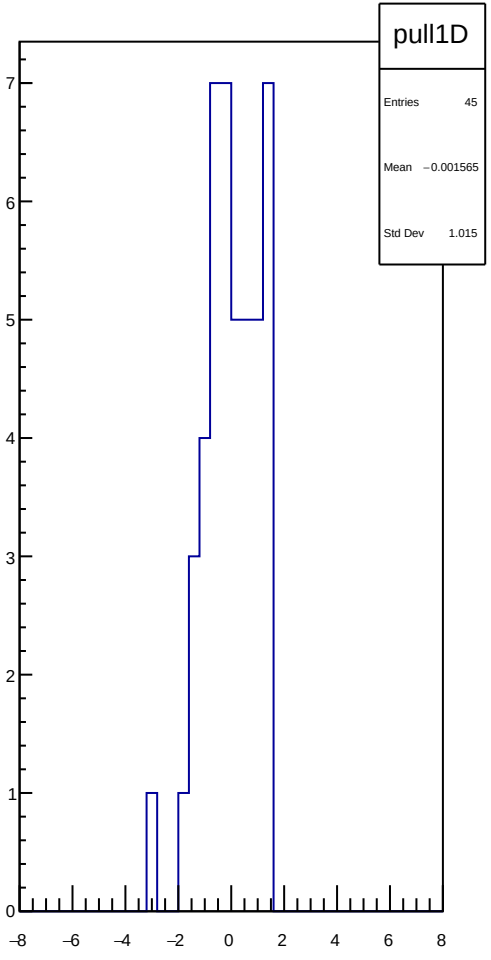

asym_usl_rms vs run
χ² / ndf 995 / 44
p0 525.5 ± 0.5609
580
560
540
520
500
480
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

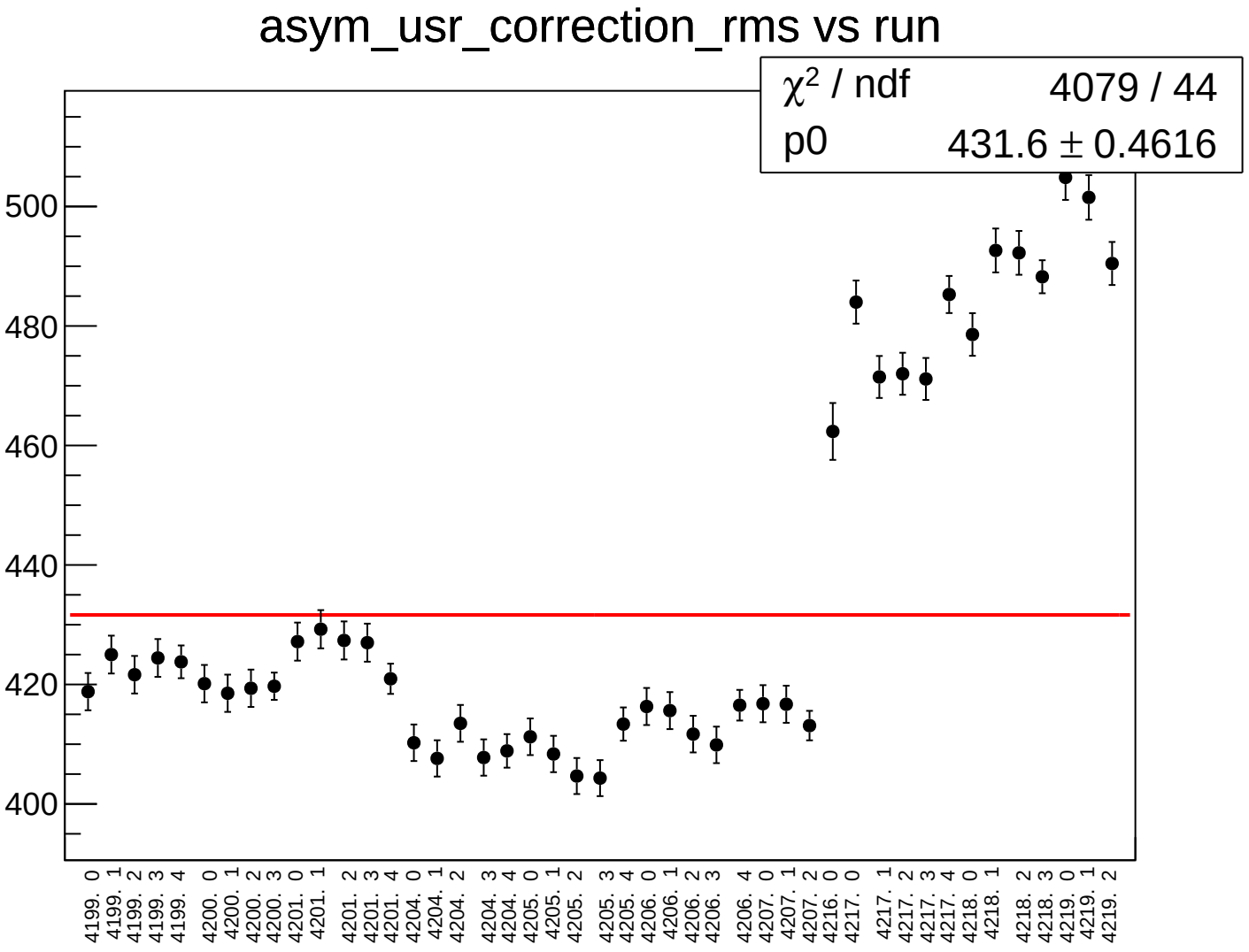

reg_asym_usr_mean vs run
χ² / ndf 49.87 / 44
p0 −472.3 ± 200
4000
2000
0
−2000
−4000
−6000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 904
Std Dev 879.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

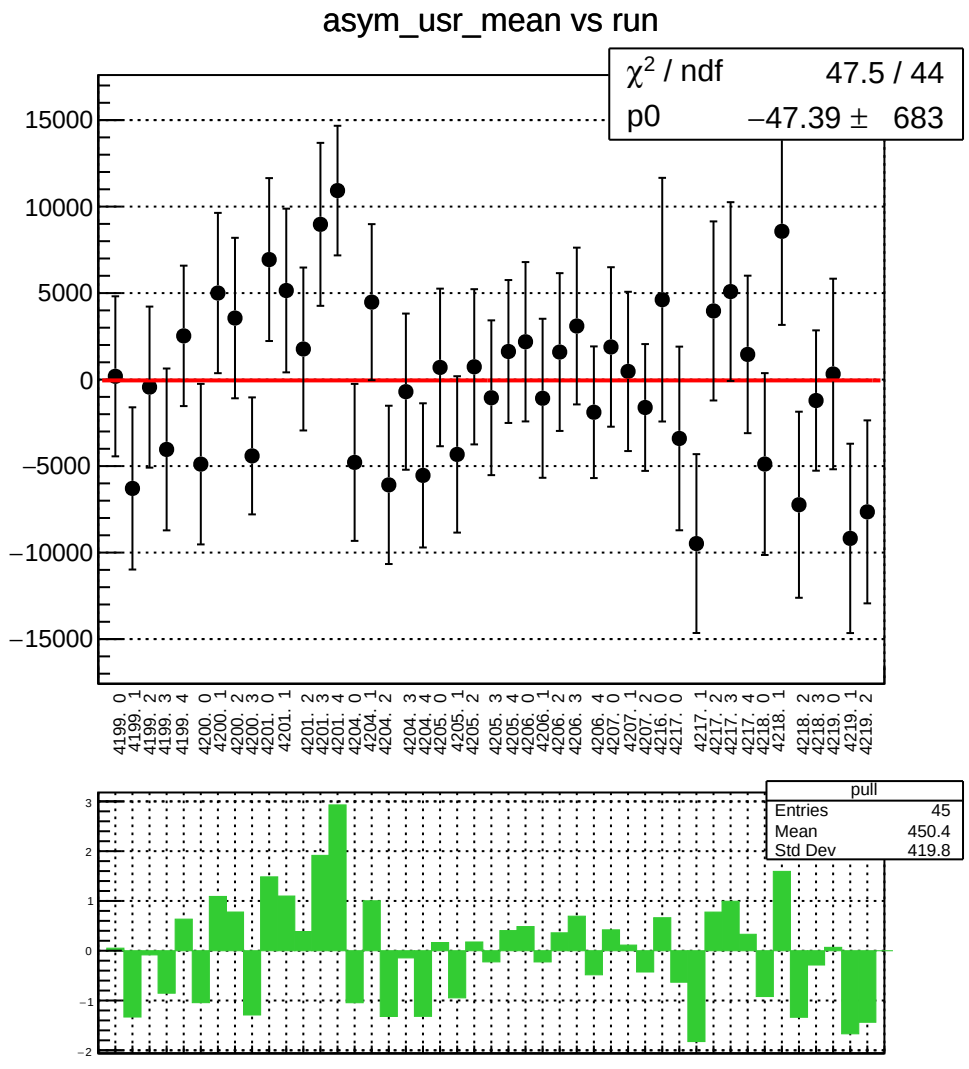

pull1D
Entries 45
Mean −0.006469
Std Dev 1.053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

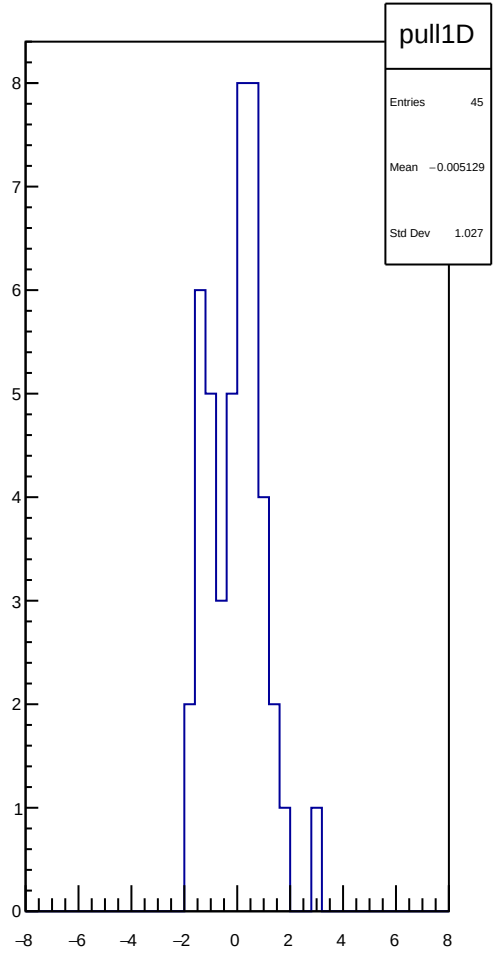

reg_asym_usr_rms vs run
χ² / ndf 401.1 / 44
p0 132.5 ± 0.1414
144
142
140
138
136
134
132
130
128
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

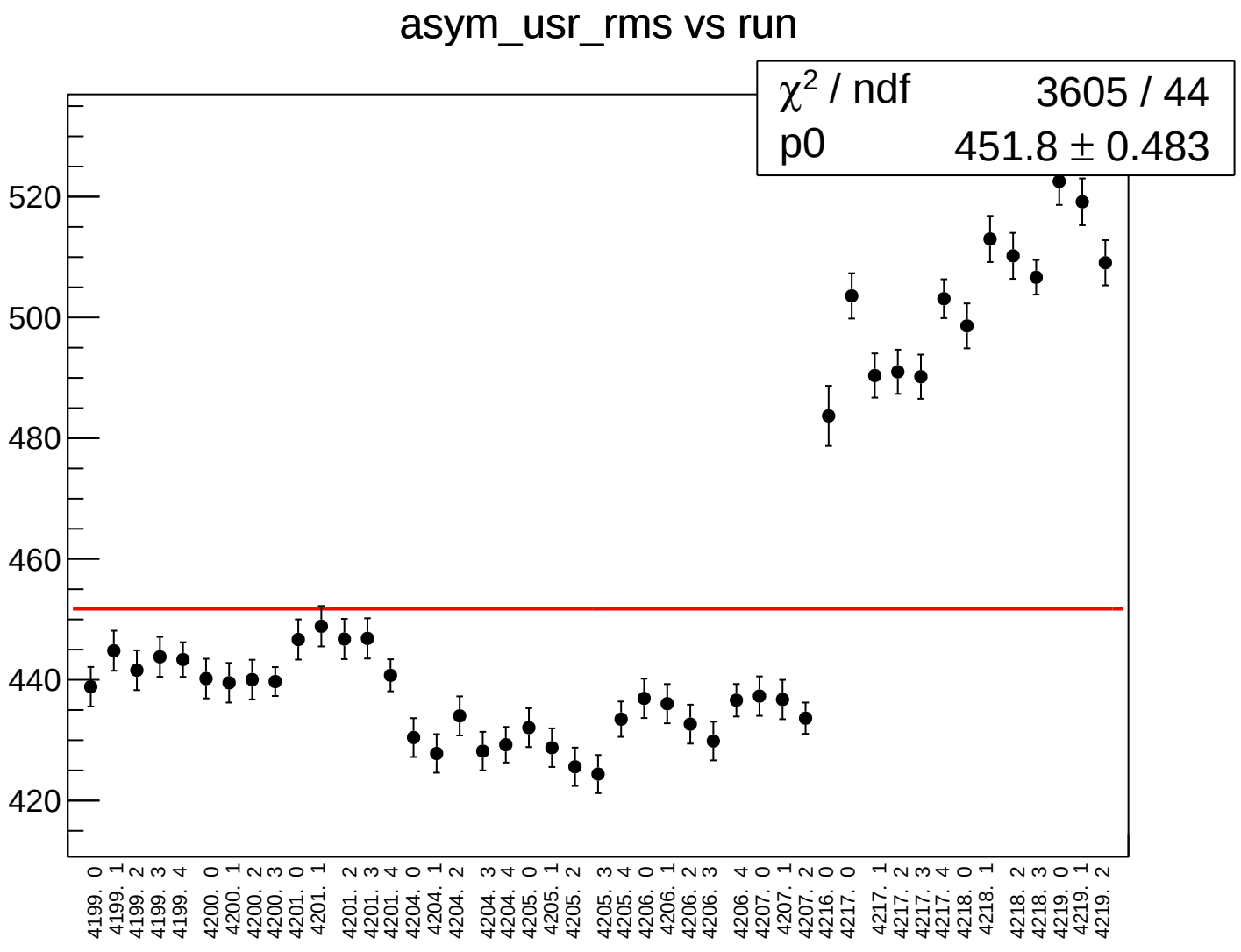

asym_usr_correction_mean vs run
χ² / ndf 46.37 / 44
p0 −376.3 ± 652.8
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −366.2
Std Dev 413.1
1
0
−1
−2
−3

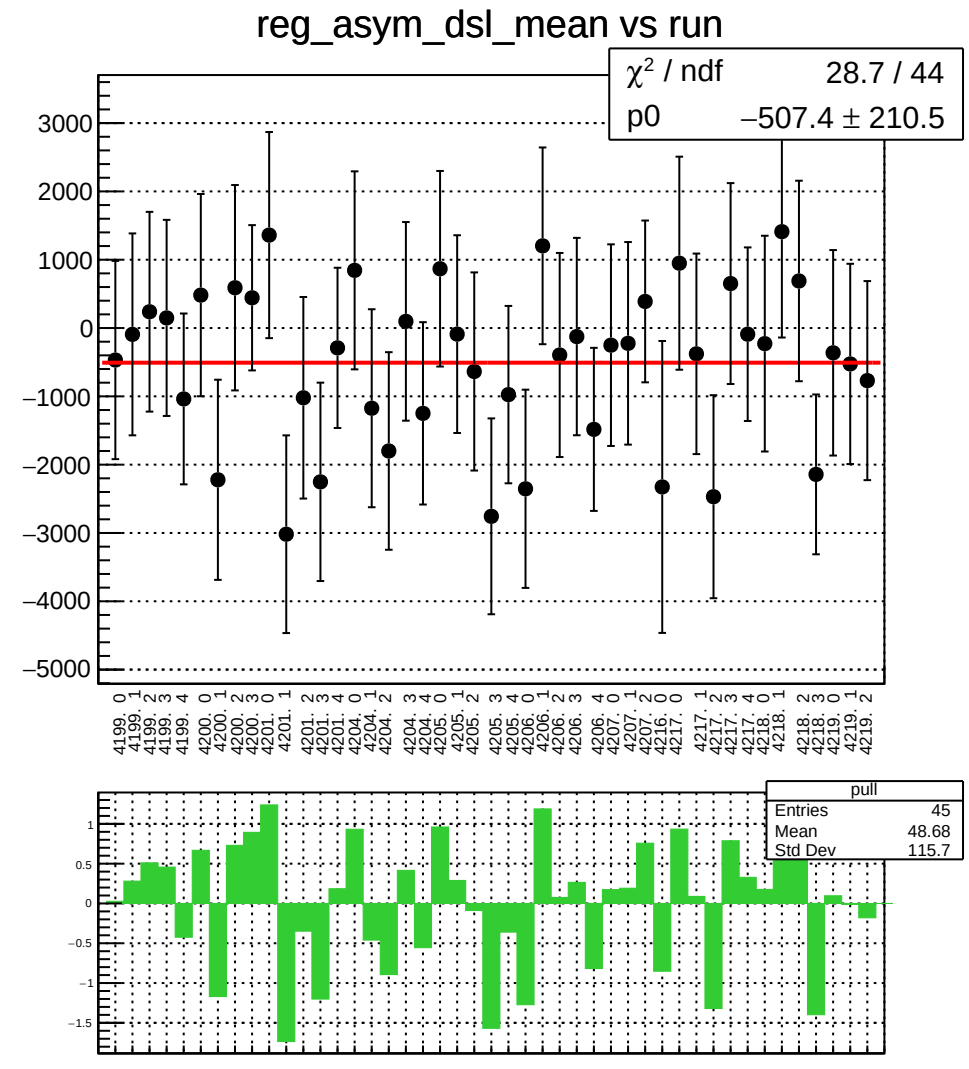

pull1D
Entries 45
Mean −0.001565
Std Dev 1.015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

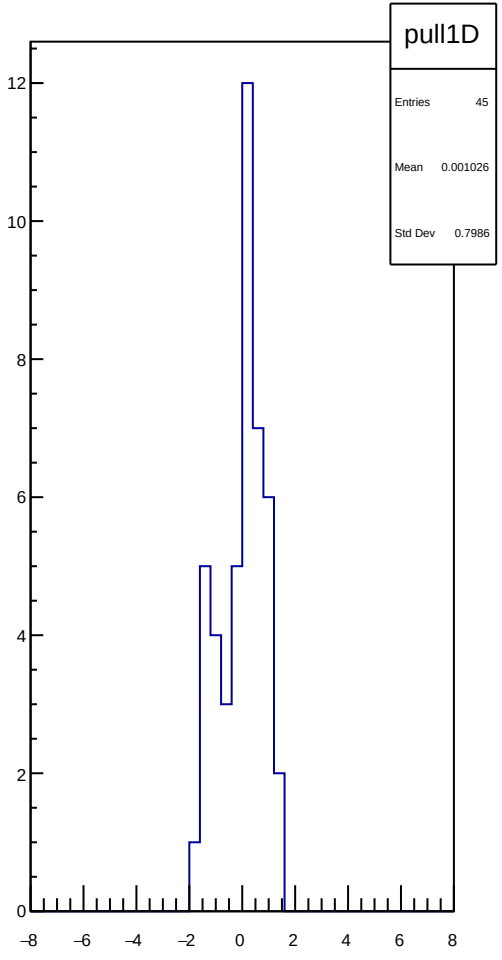

asym_usr_correction_rms vs run
χ² / ndf 4079 / 44
p0 431.6 ± 0.4616
500
480
460
440
420
400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

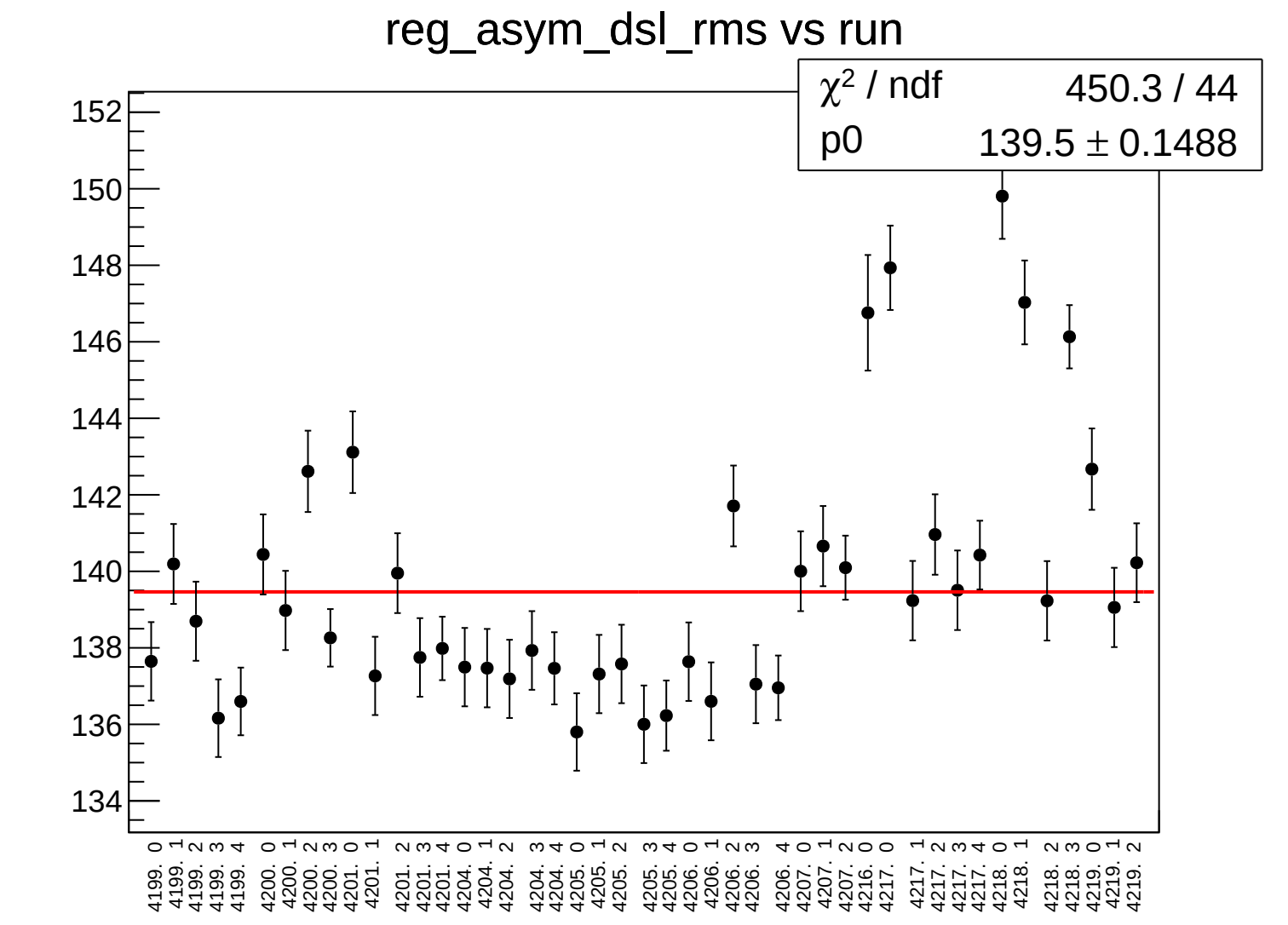

asym_usr_mean vs run
χ² / ndf 47.5 / 44
p0 −47.39 ± 683
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 450.4
Std Dev 419.8
3
2
1
0
−1
−2

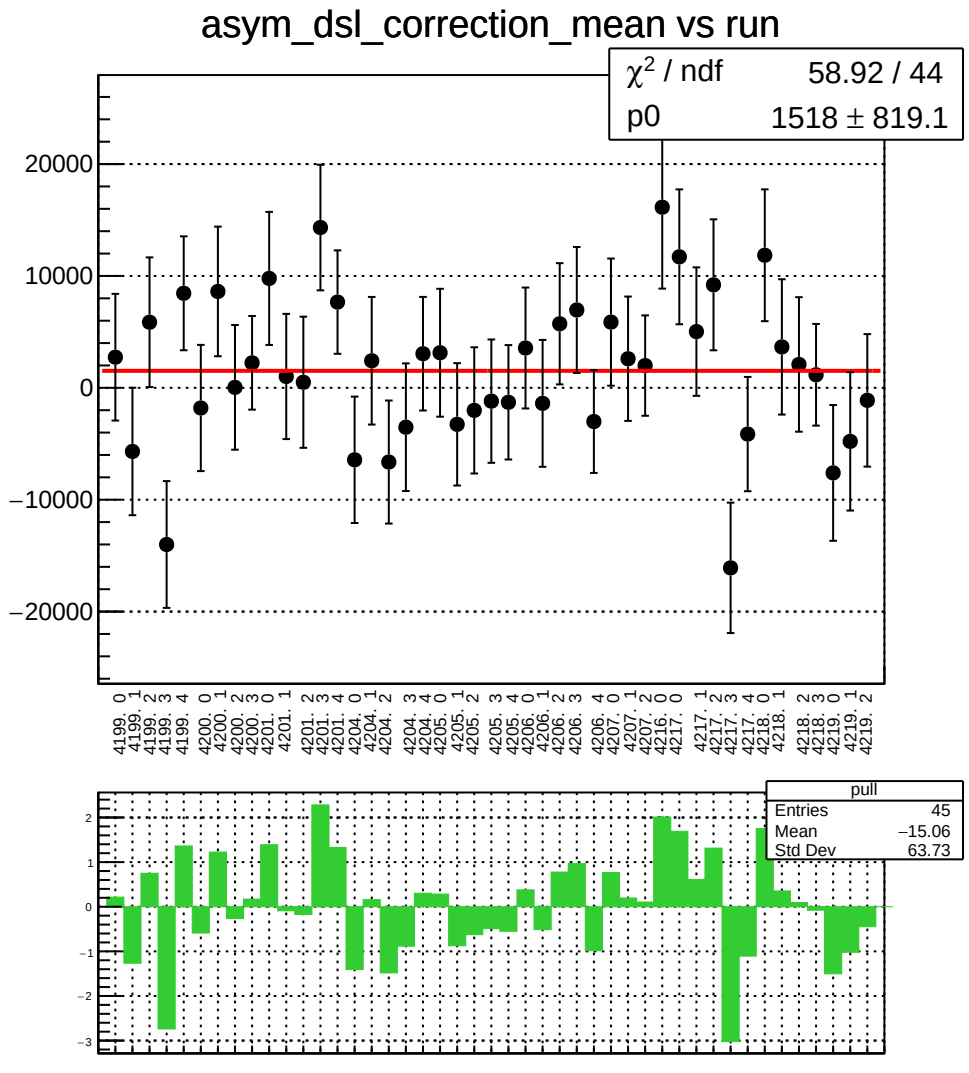

pull1D
Entries 45
Mean −0.005129
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

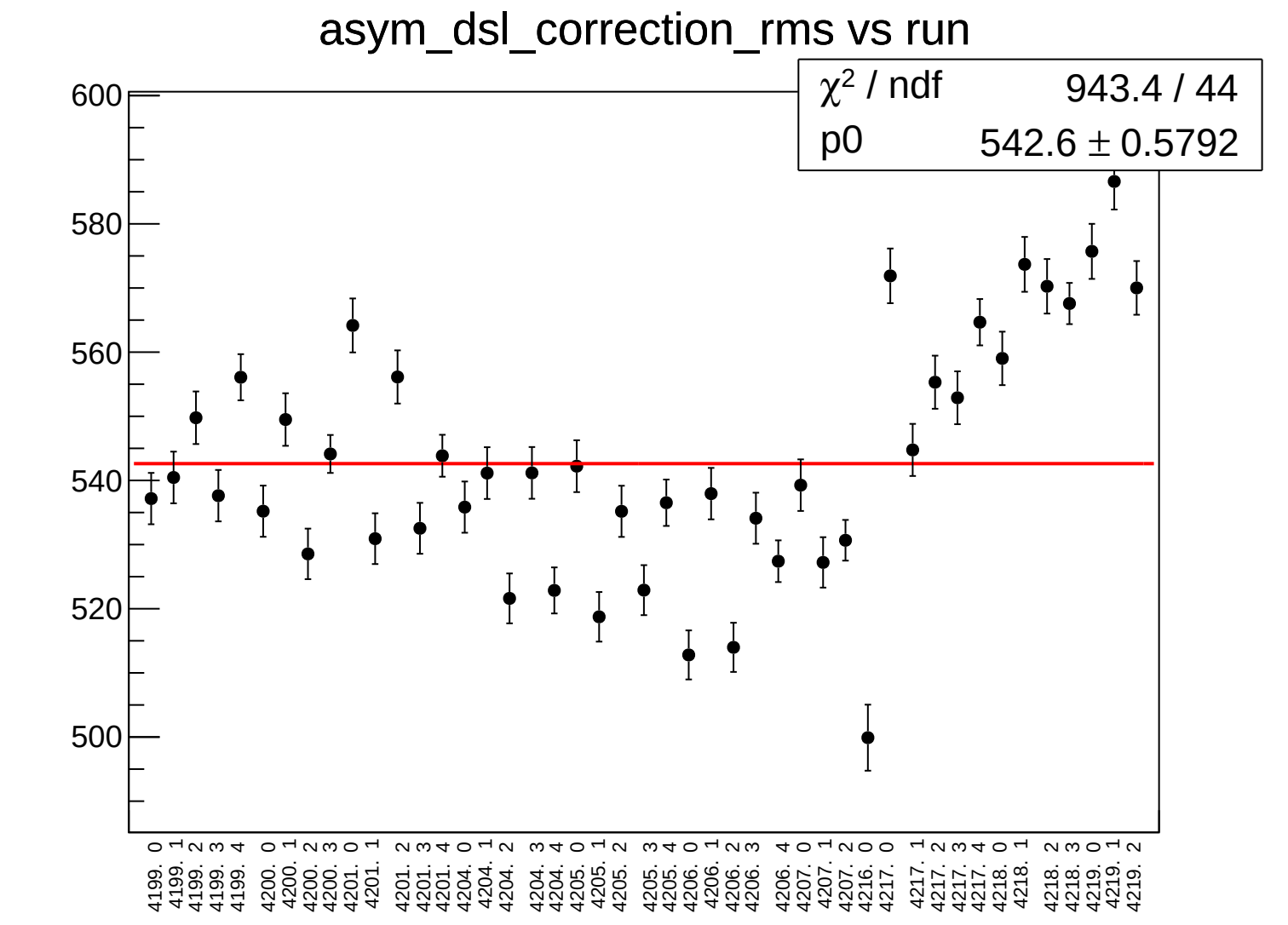

asym_usr_rms vs run
χ² / ndf 3605 / 44
p0 451.8 ± 0.483
520
500
480
460
440
420
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

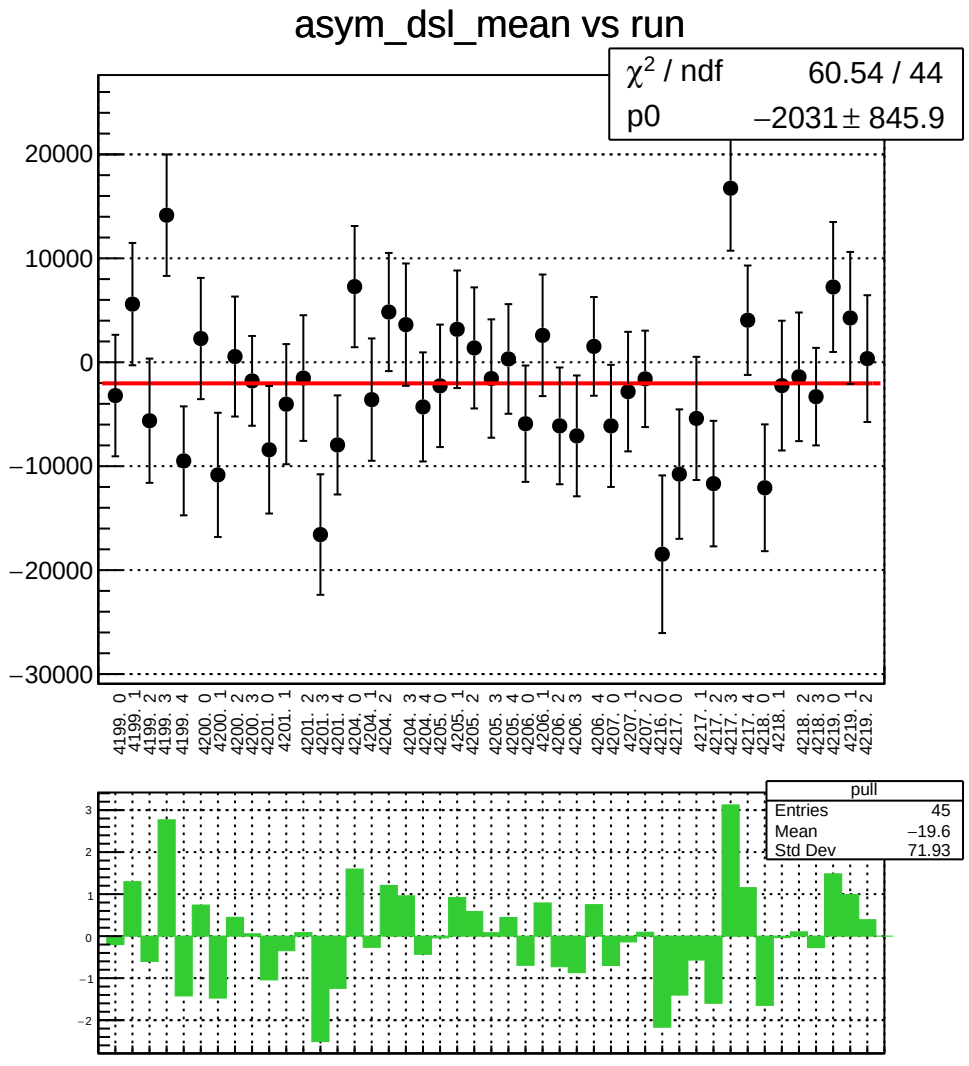

reg_asym_dsl_mean vs run
χ² / ndf 28.7 / 44
p0 −507.4 ± 210.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 48.68
Std Dev 115.7
1
0.5
0
−0.5
−1
−1.5

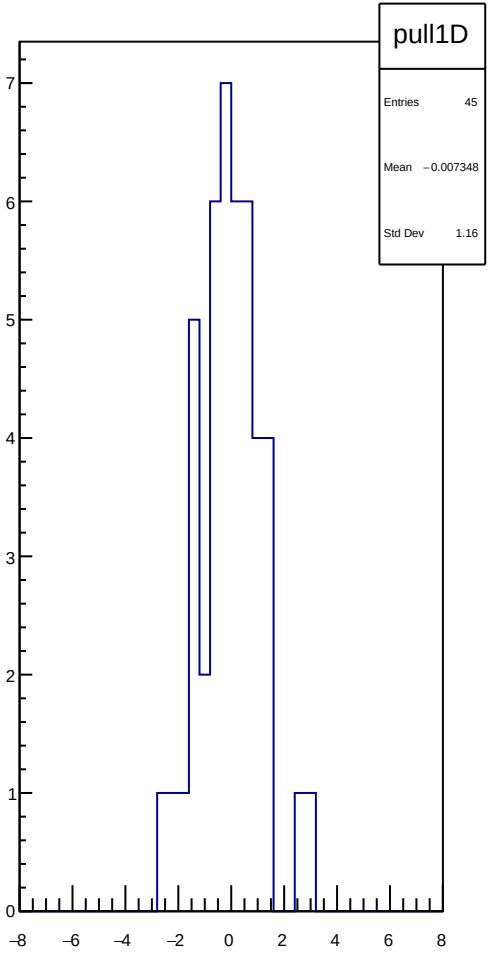

pull1D
Entries 45
Mean 0.001026
Std Dev 0.7986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

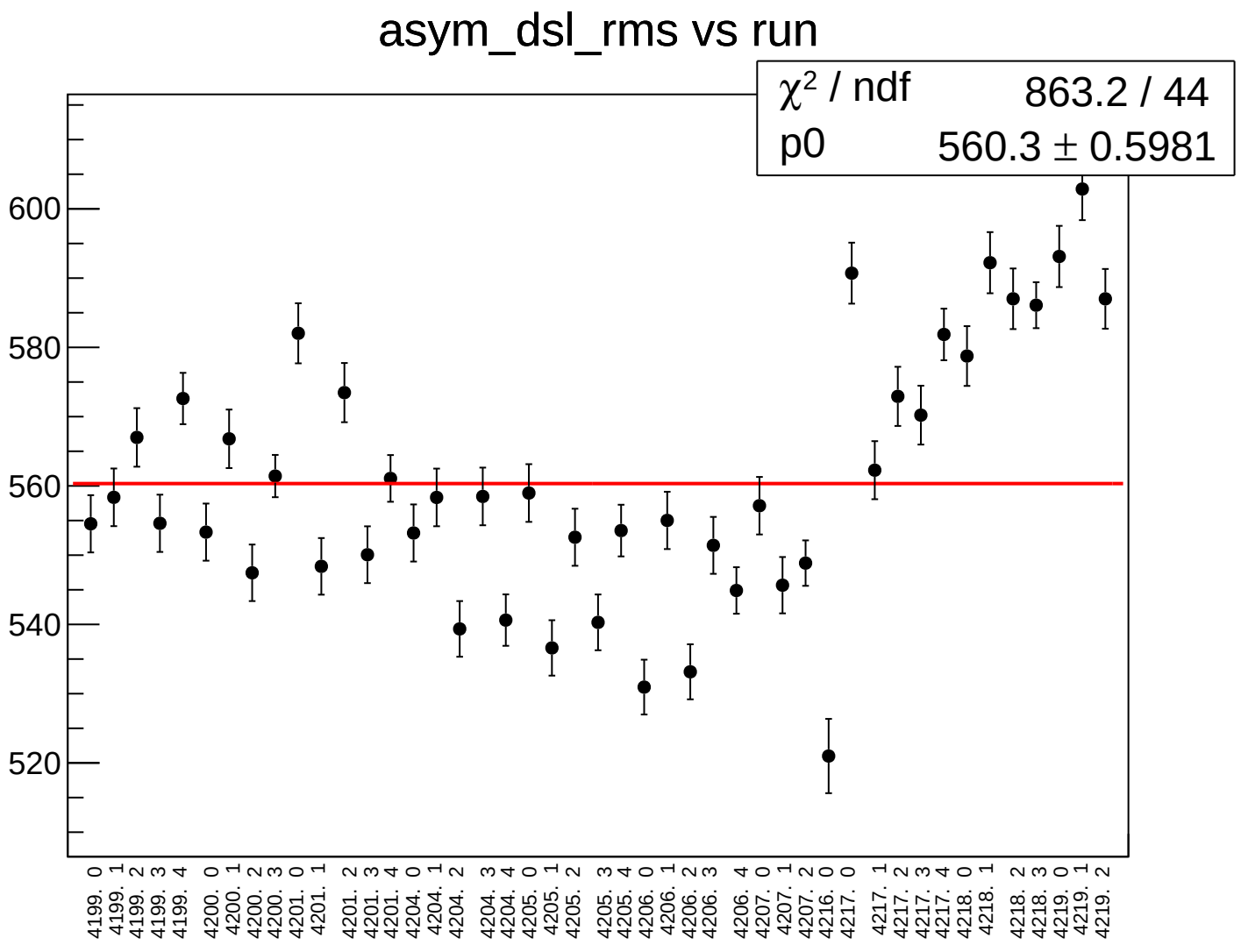

reg_asym_dsl_rms vs run
χ² / ndf 450.3 / 44
p0 139.5 ± 0.1488
152
150
148
146
144
142
140
138
136
134
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

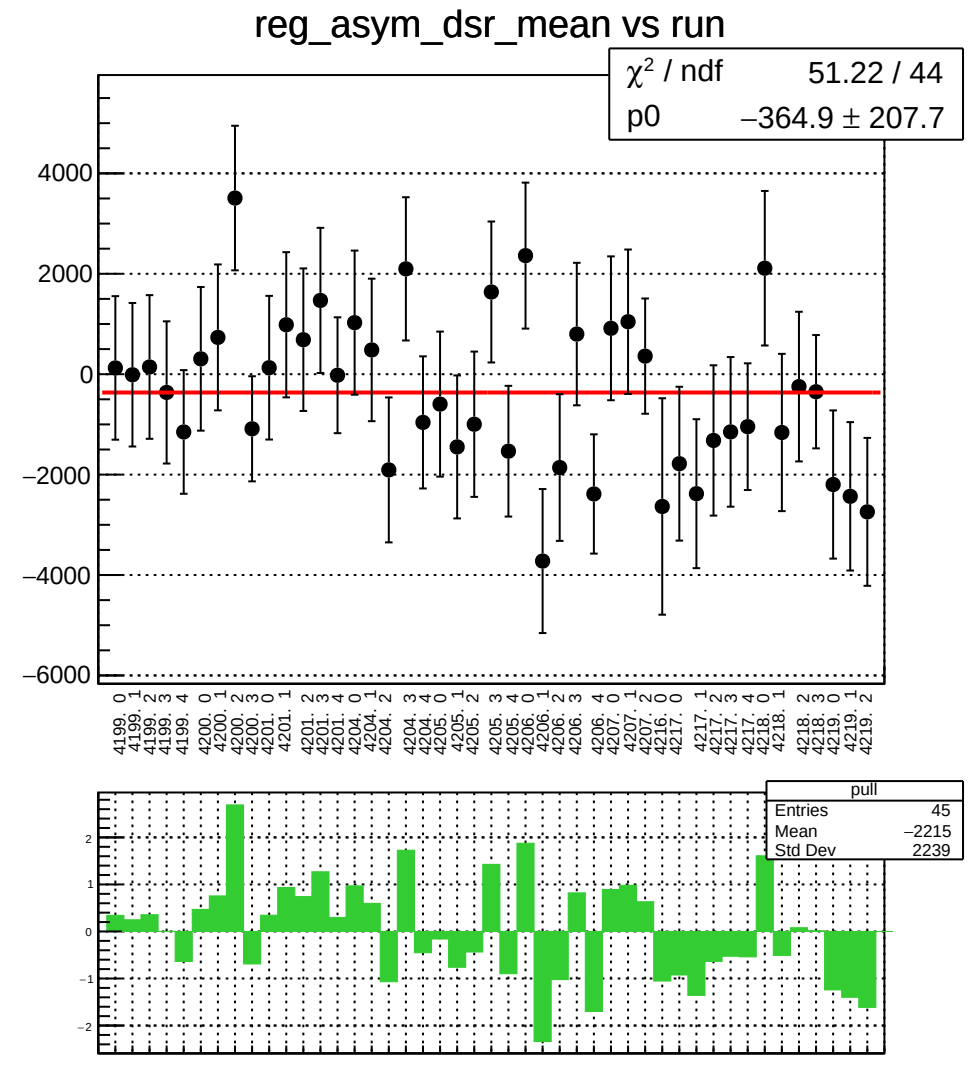

asym_dsl_correction_mean vs run
χ² / ndf 58.92 / 44
p0 1518 ± 819.1
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −15.06
Std Dev 63.73
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.00825
Std Dev 1.144
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

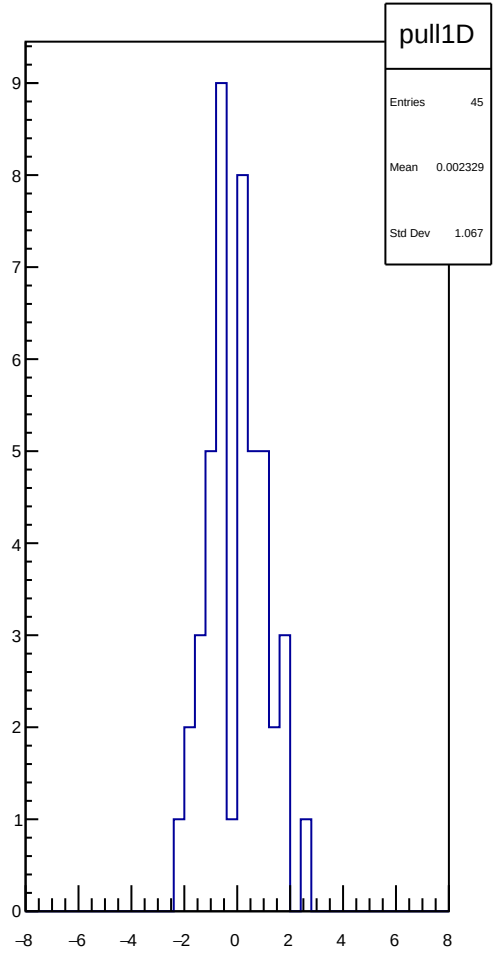

asym_dsl_correction_rms vs run
χ² / ndf 943.4 / 44
p0 542.6 ± 0.5792
600
580
560
540
520
500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

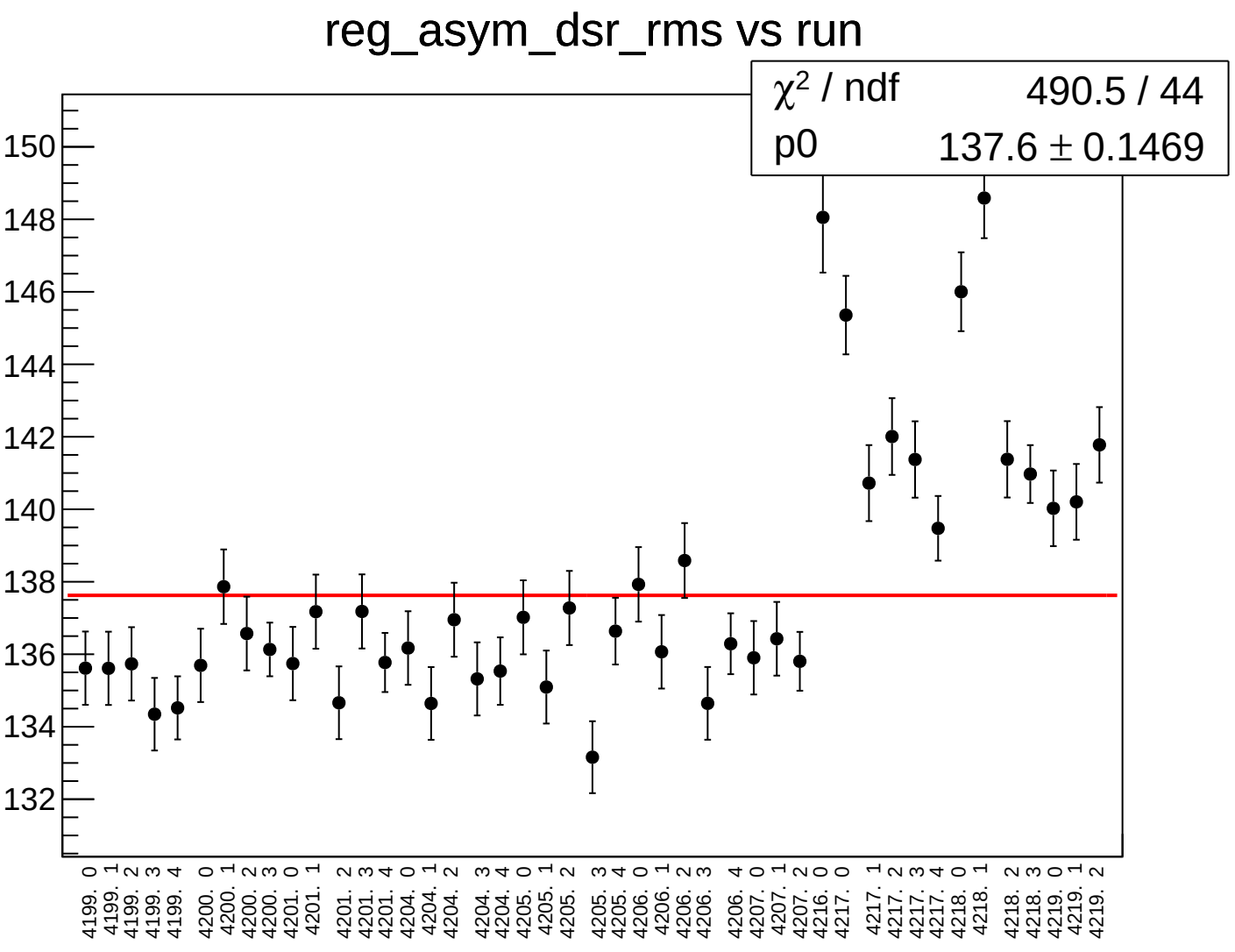

asym_dsl_mean vs run
χ² / ndf 60.54 / 44
p0 −2031 ± 845.9
20000
10000
0
−10000
−20000
−30000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −19.6
Std Dev 71.93
3
2
1
0
−1
−2

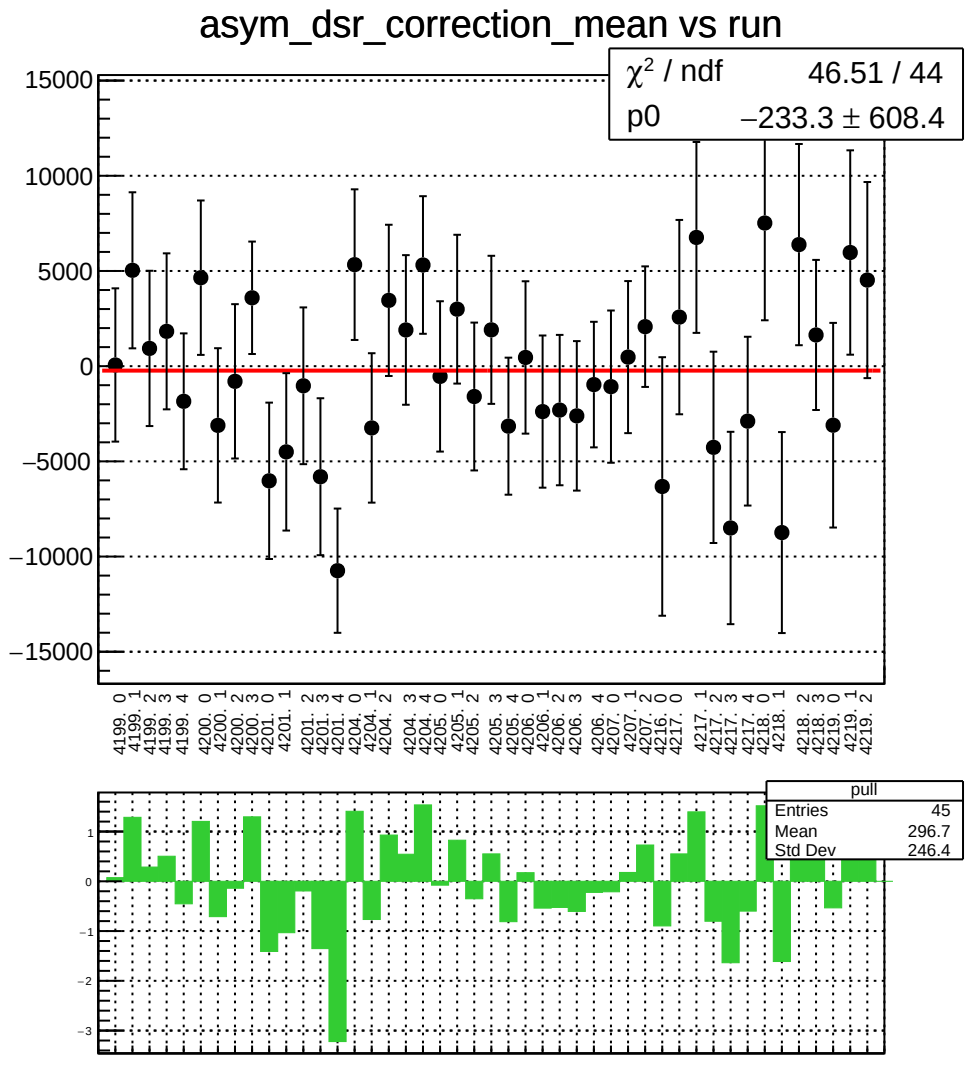

pull1D
Entries 45
Mean −0.007348
Std Dev 1.16
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

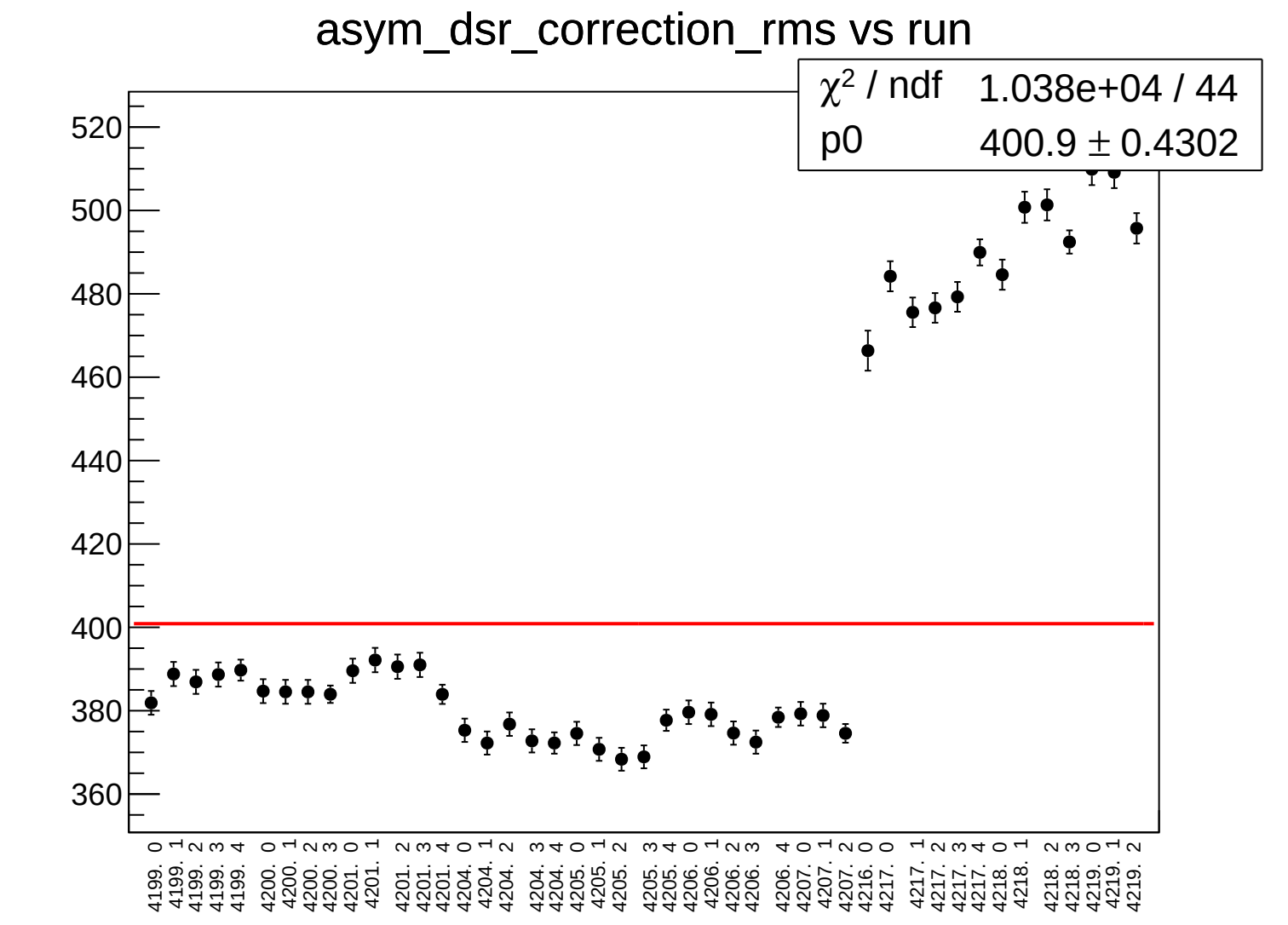

asym_dsl_rms vs run
χ² / ndf 863.2 / 44
p0 560.3 ± 0.5981
600
580
560
540
520
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

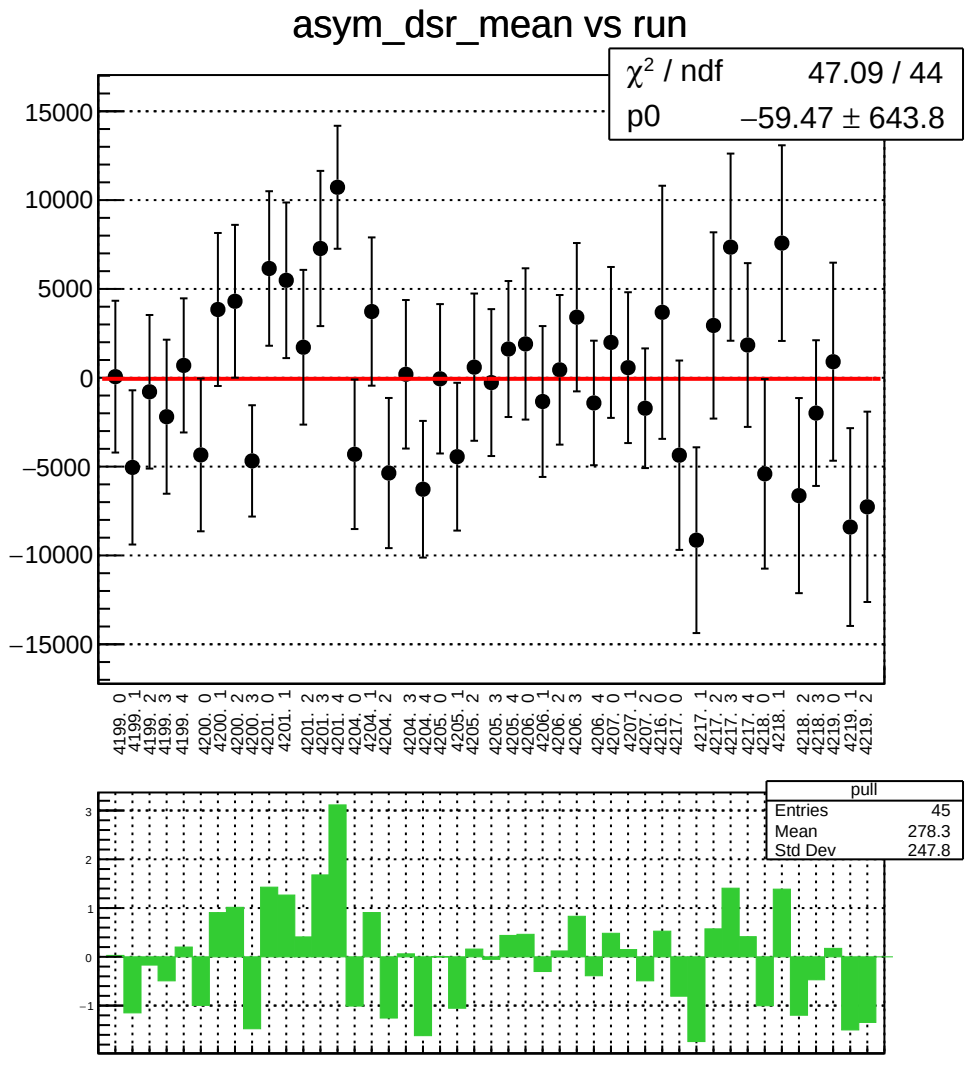

reg_asym_dsr_mean vs run
χ² / ndf 51.22 / 44
p0 −364.9 ± 207.7
4000
2000
0
−2000
−4000
−6000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −2215
Std Dev 2239
2
1
0
−1
−2

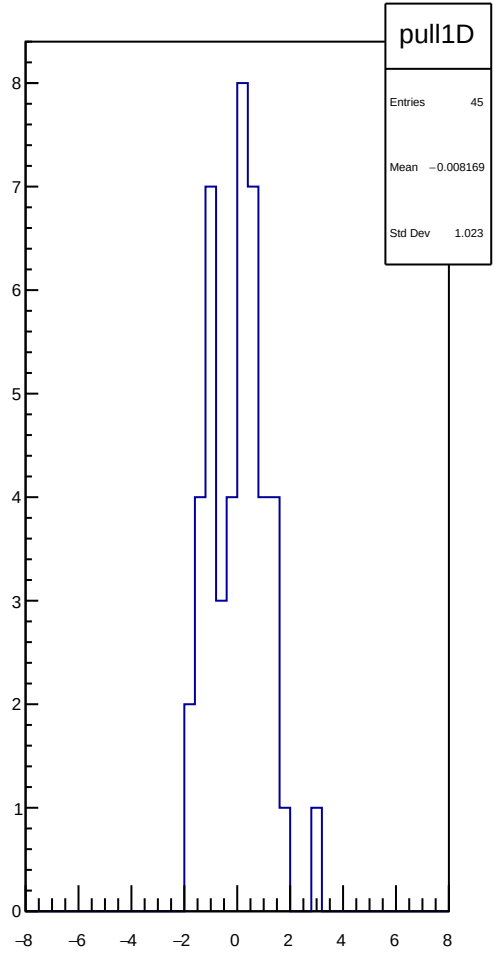

pull1D
Entries 45
Mean 0.002329
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

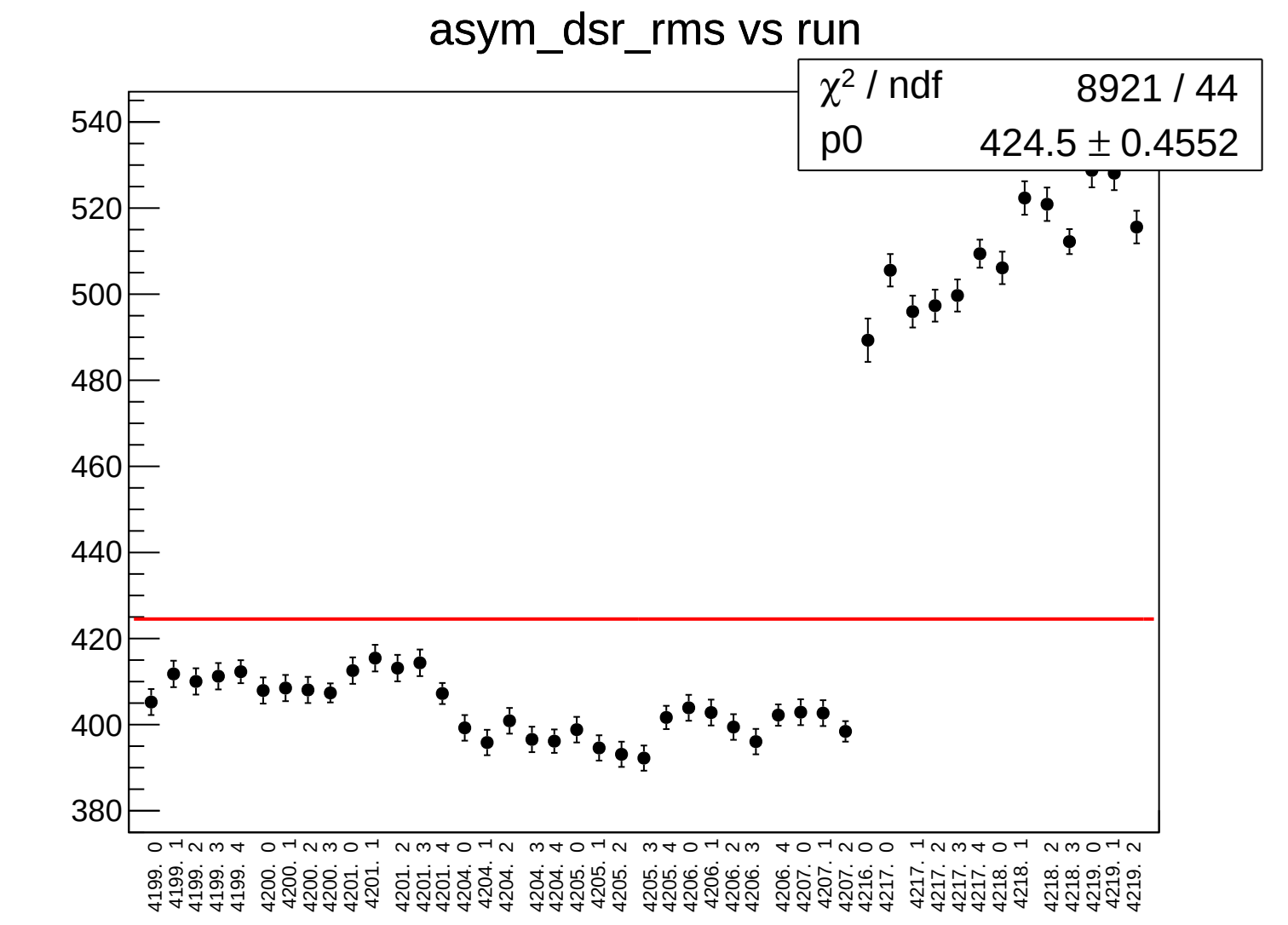

reg_asym_dsr_rms vs run
χ² / ndf 490.5 / 44
p0 137.6 ± 0.1469
150
148
146
144
142
140
138
136
134
132
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

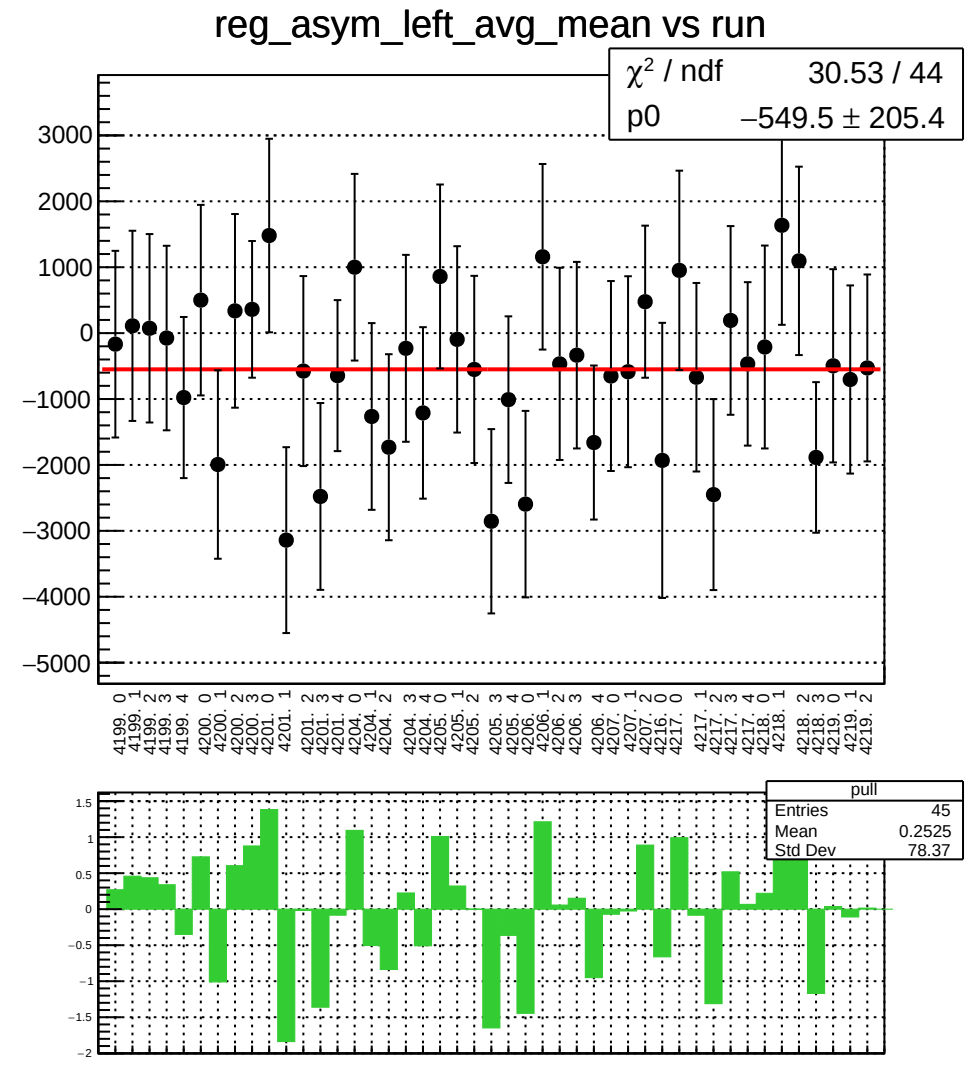

asym_dsr_correction_mean vs run
χ² / ndf 46.51 / 44
p0 −233.3 ± 608.4
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 296.7
Std Dev 246.4
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.002018
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

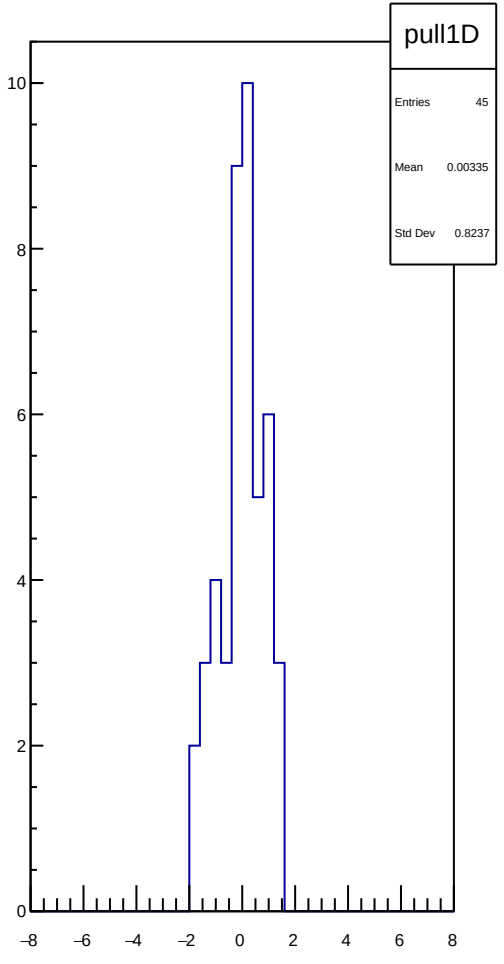

asym_dsr_correction_rms vs run
χ² / ndf 1.038e+04 / 44
p0 400.9 ± 0.4302
520
500
480
460
440
420
400
380
360
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

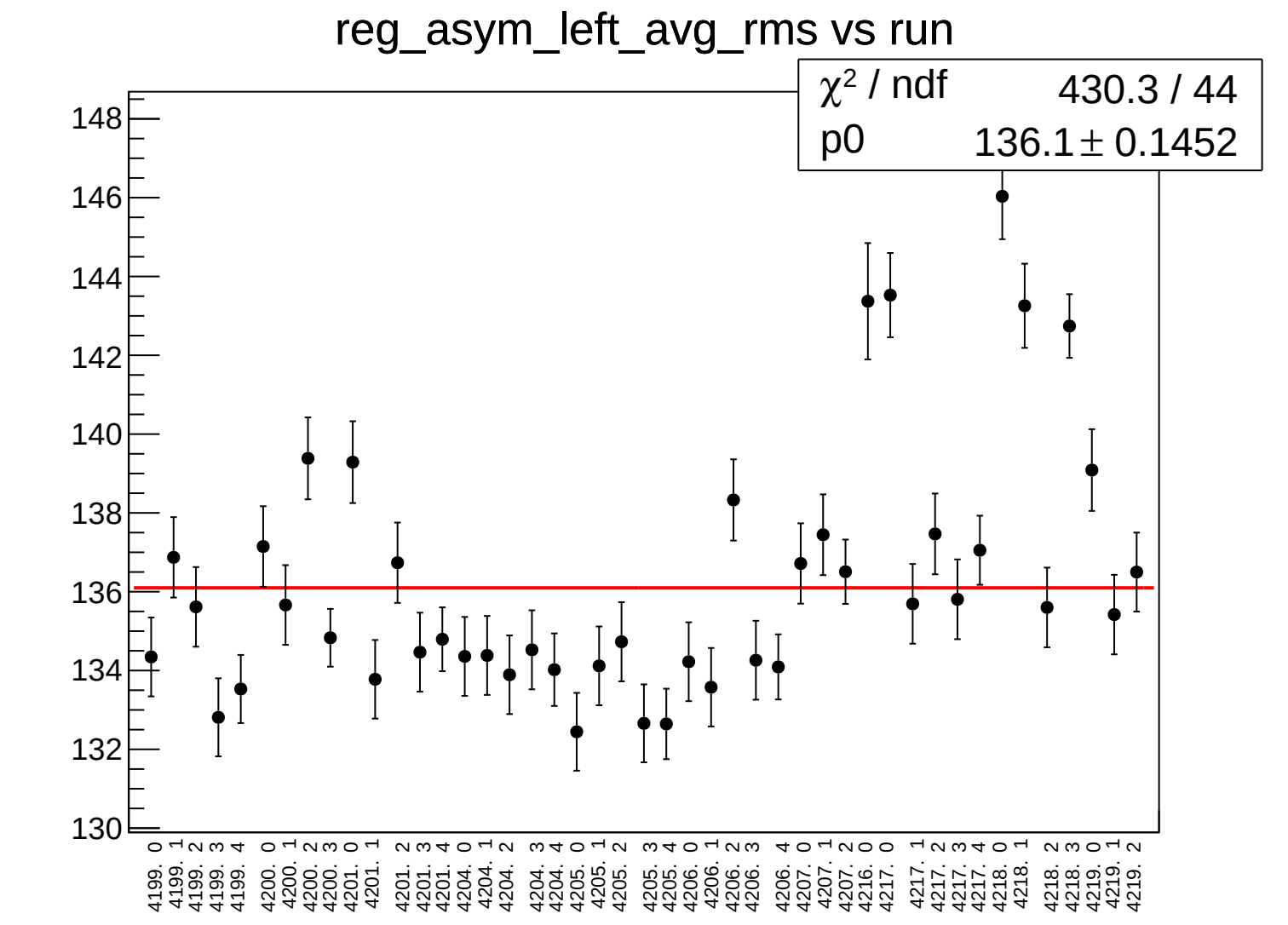

asym_dsr_mean vs run
χ² / ndf 47.09 / 44
p0 −59.47 ± 643.8
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 278.3
Std Dev 247.8
3
2
1
0
−1

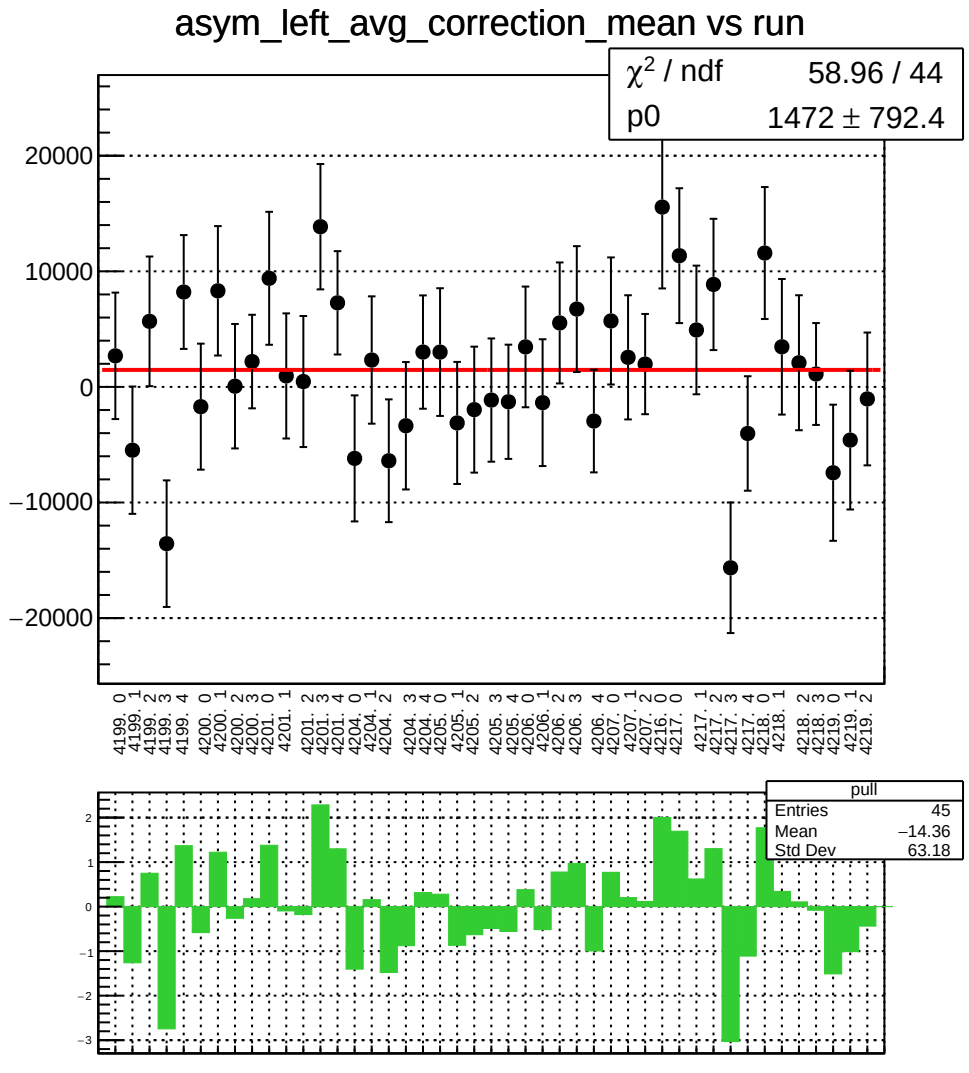

pull1D
Entries 45
Mean −0.008169
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

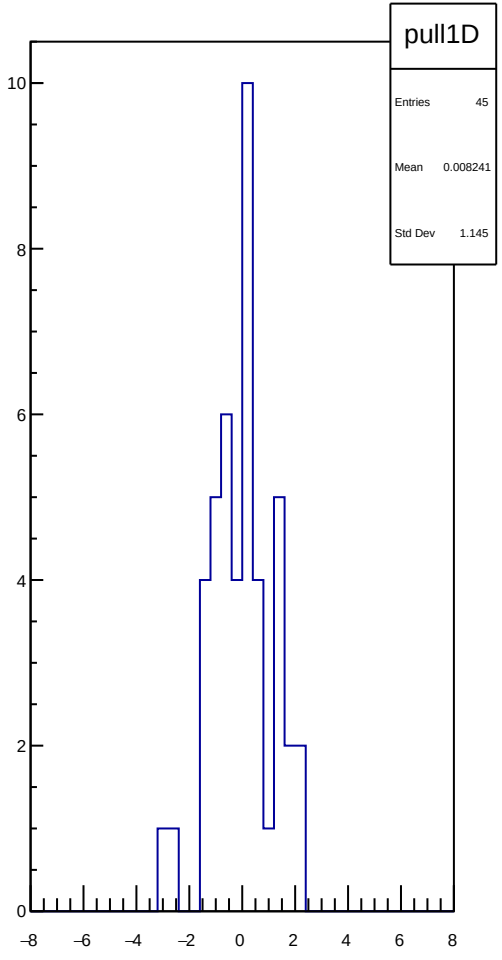

asym_dsr_rms vs run
χ² / ndf 8921 / 44
p0 424.5 ± 0.4552
540
520
500
480
460
440
420
400
380
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2


reg_asym_left_avg_mean vs run
χ² / ndf 30.53 / 44
p0 −549.5 ± 205.4
pull
Entries 45
Mean 0.2525
Std Dev 78.37

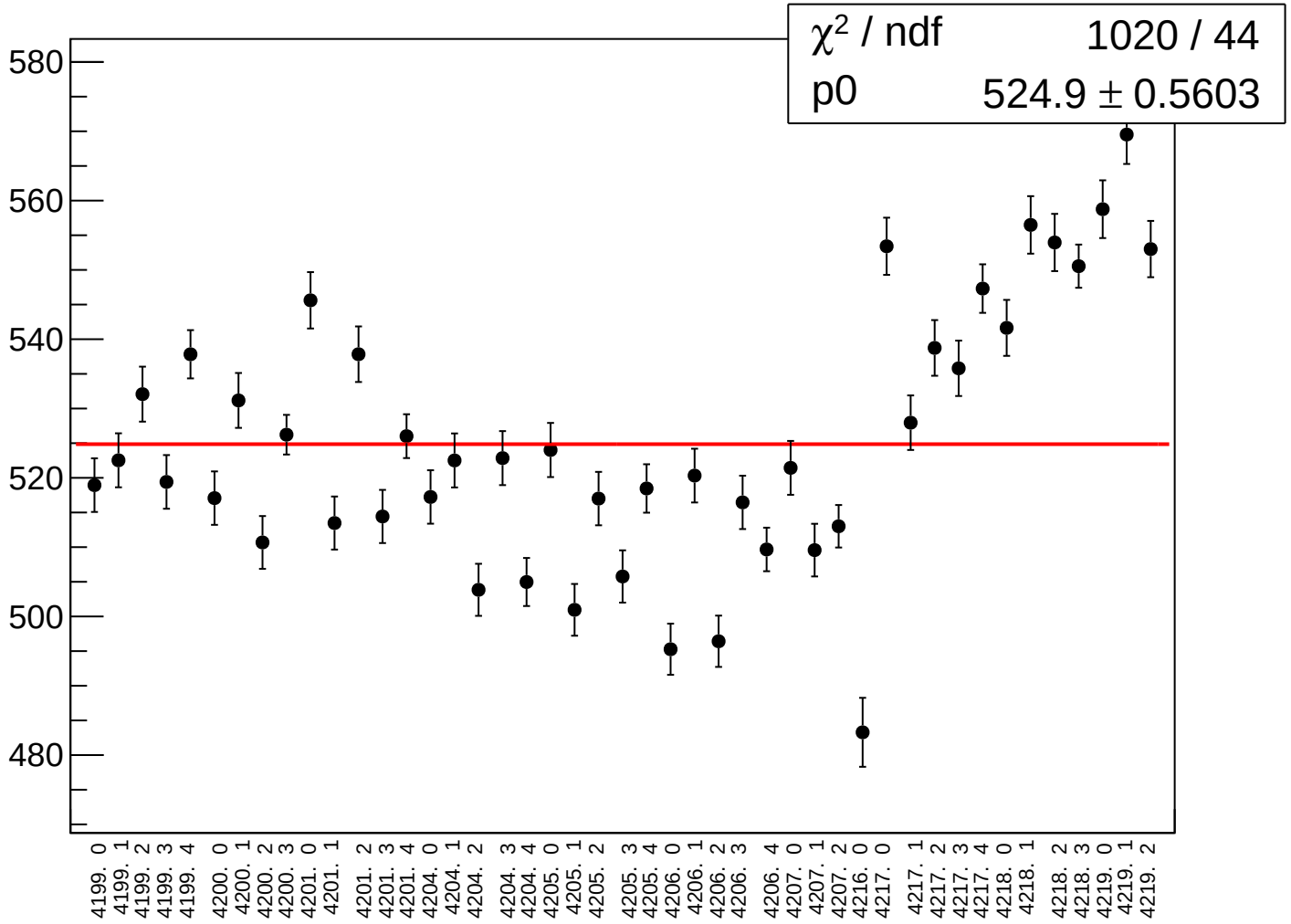

pull1D
Entries 45
Mean 0.00335
Std Dev 0.8237

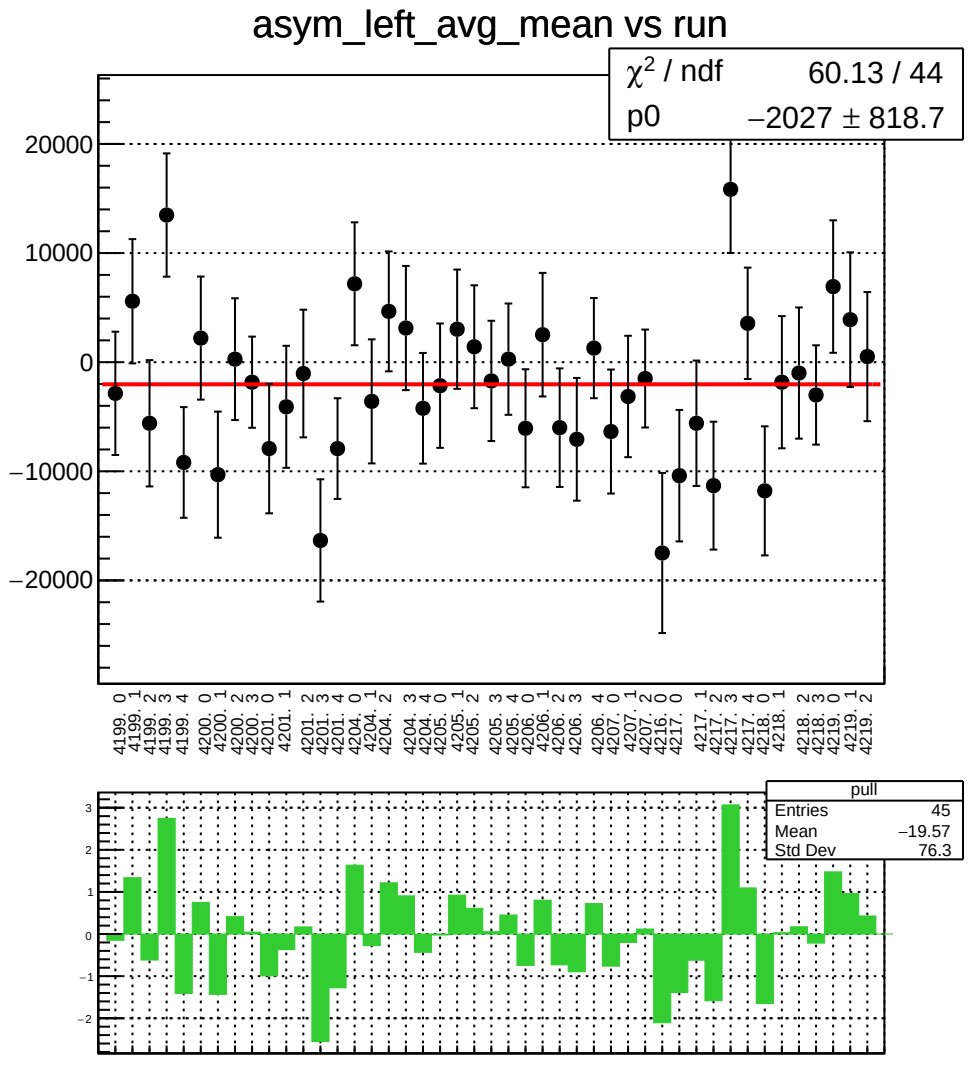

reg_asym_left_avg_rms vs run
χ^2 / ndf 430.3 / 44
p0 136.1 ± 0.1452
148
146
144
142
140
138
136
134
132
130
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

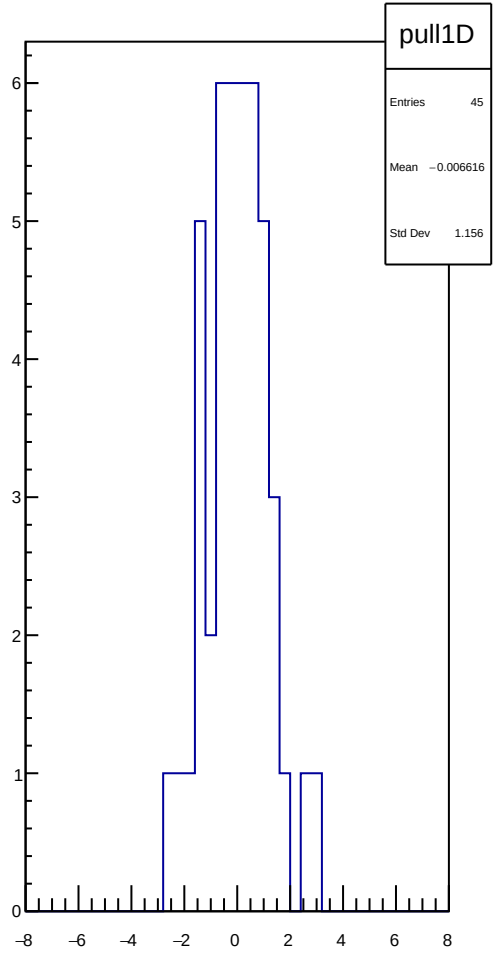

asym_left_avg_correction_mean vs run
χ² / ndf 58.96 / 44
p0 1472 ± 792.4
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −14.36
Std Dev 63.18
2
1
0
−1
−2
−3

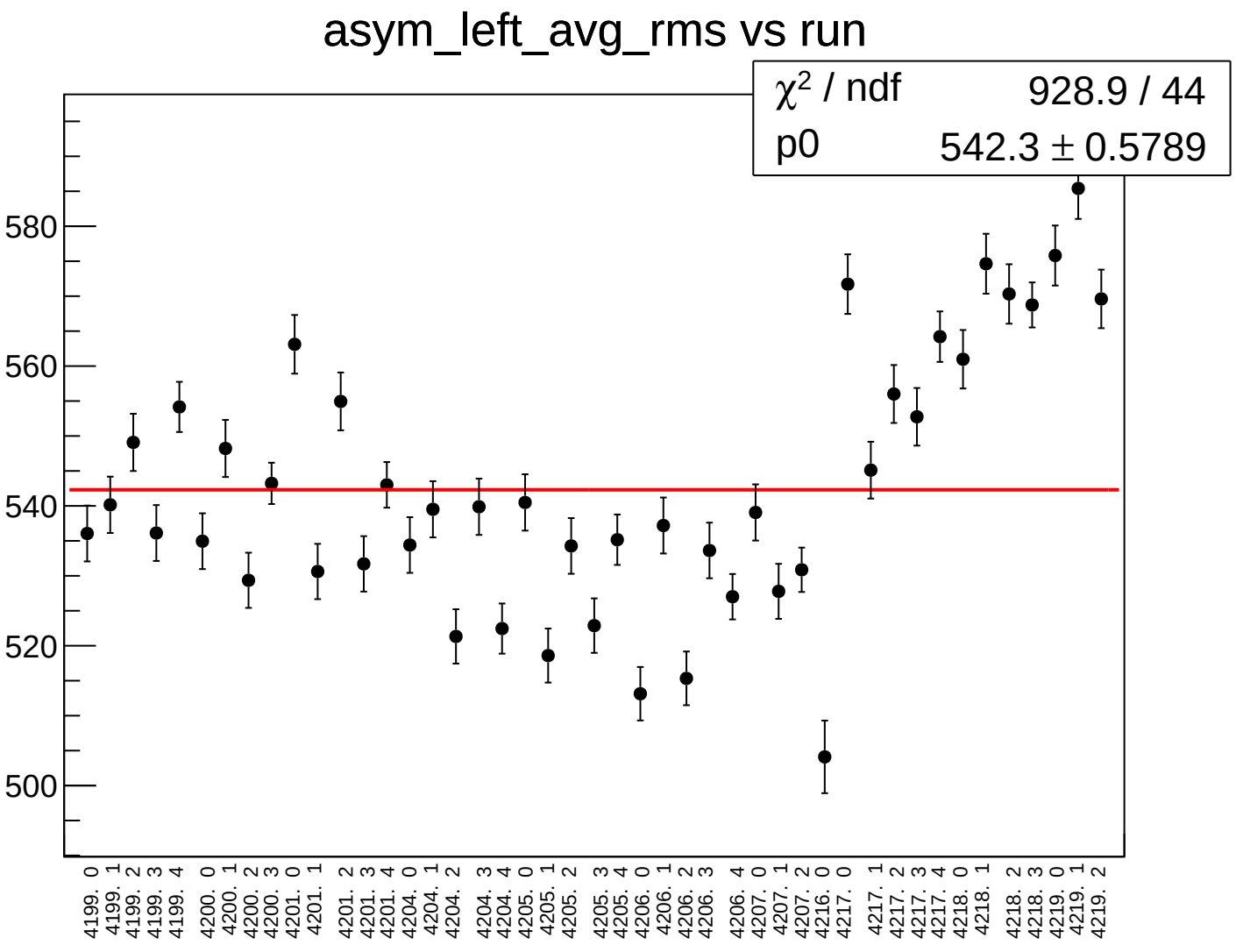

pull1D
Entries 45
Mean 0.008241
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

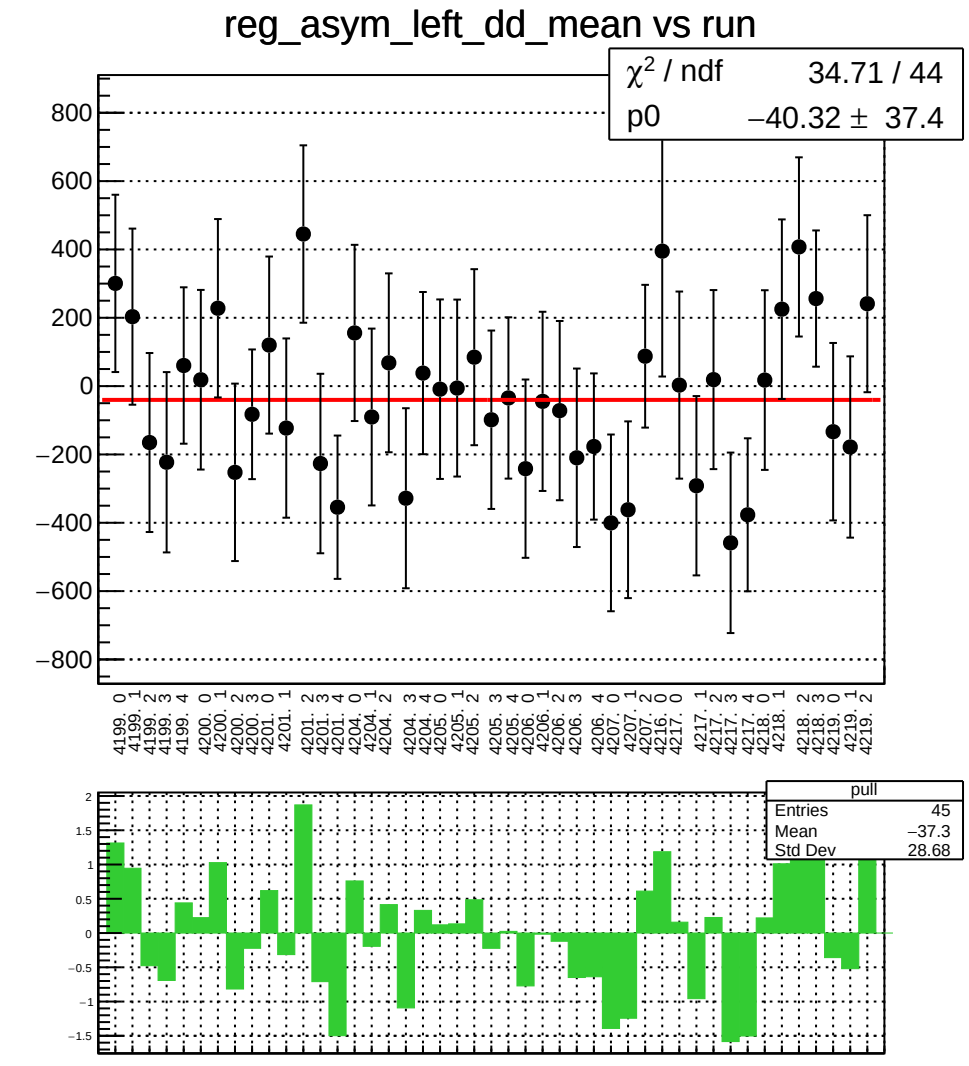
asym_left_avg_correction_rms vs run

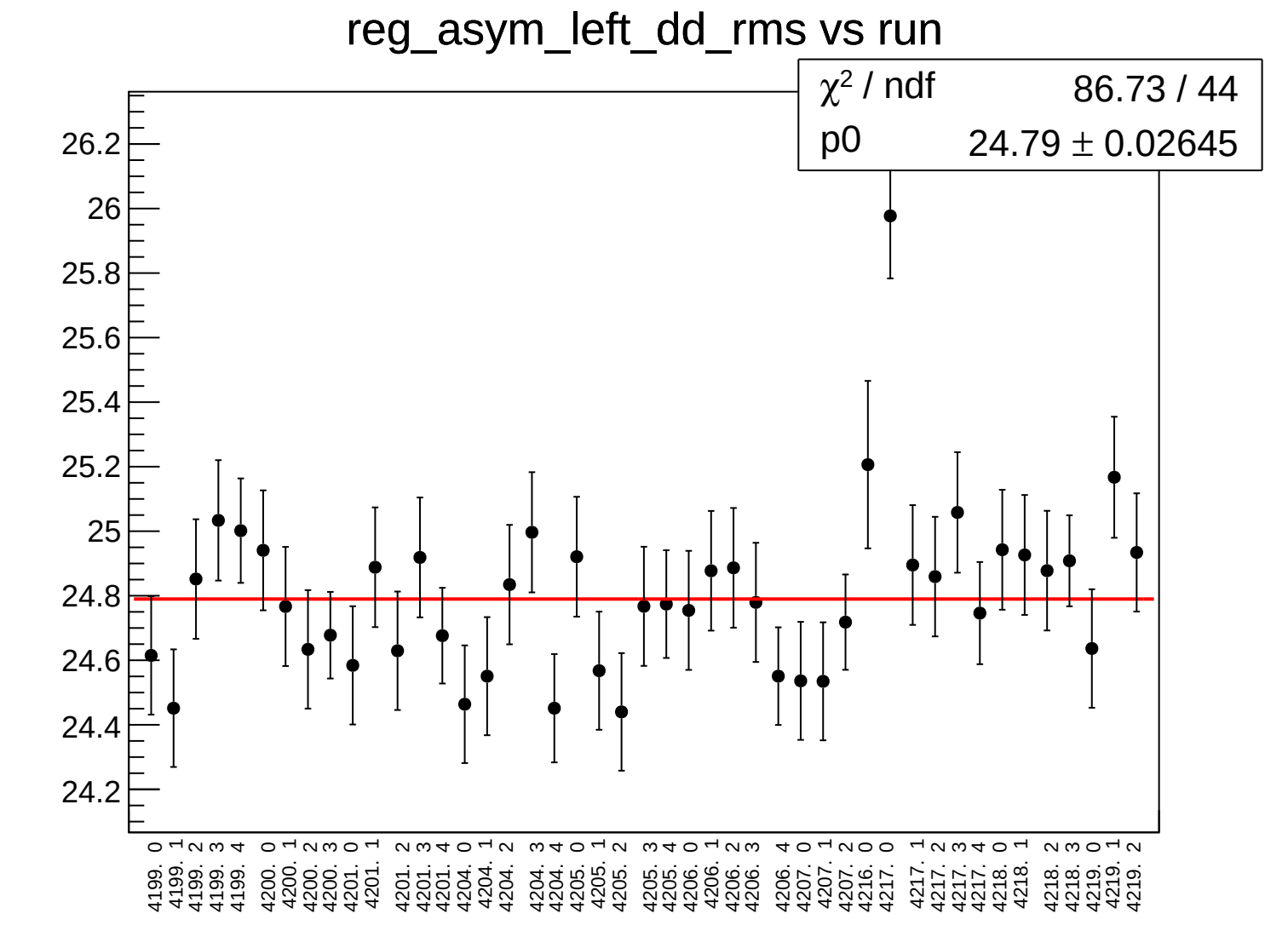


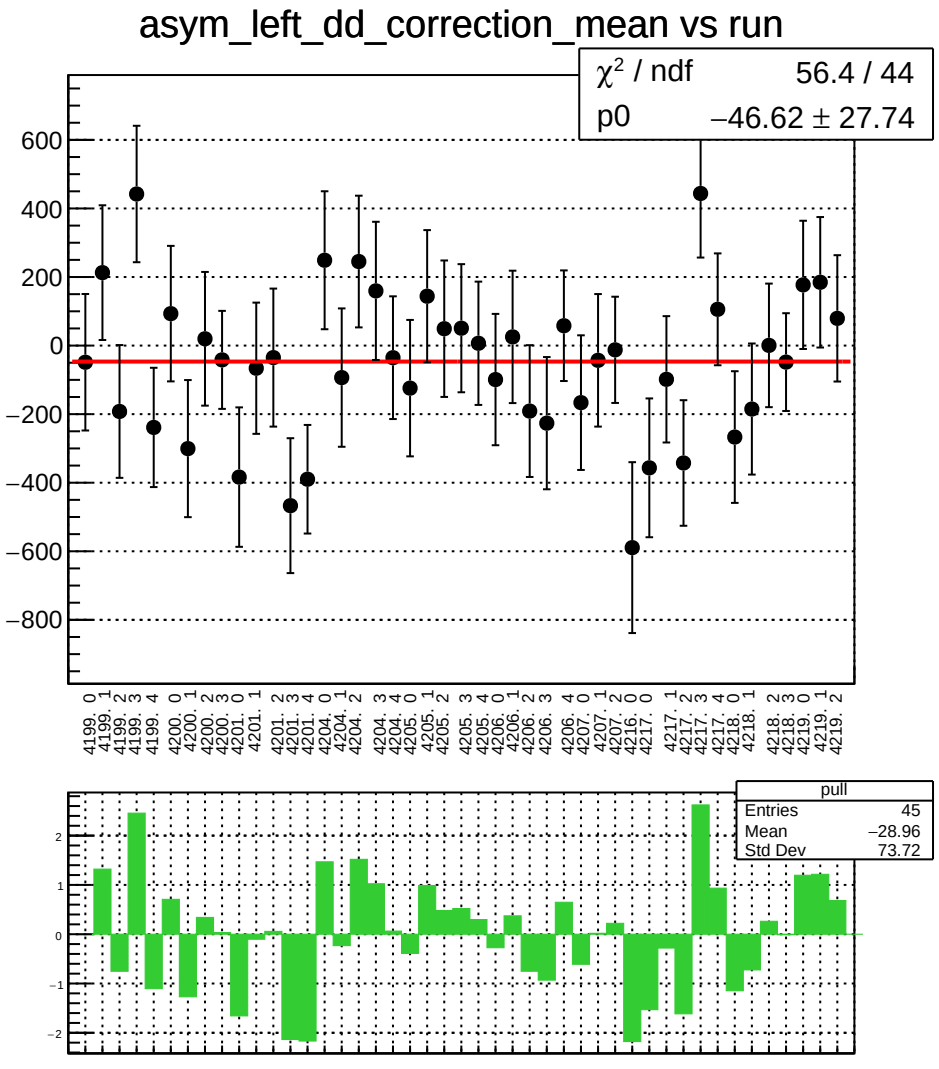

asym_left_avg_mean vs run
χ² / ndf 60.13 / 44
p0 −2027 ± 818.7
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −19.57
Std Dev 76.3
3
2
1
0
−1
−2

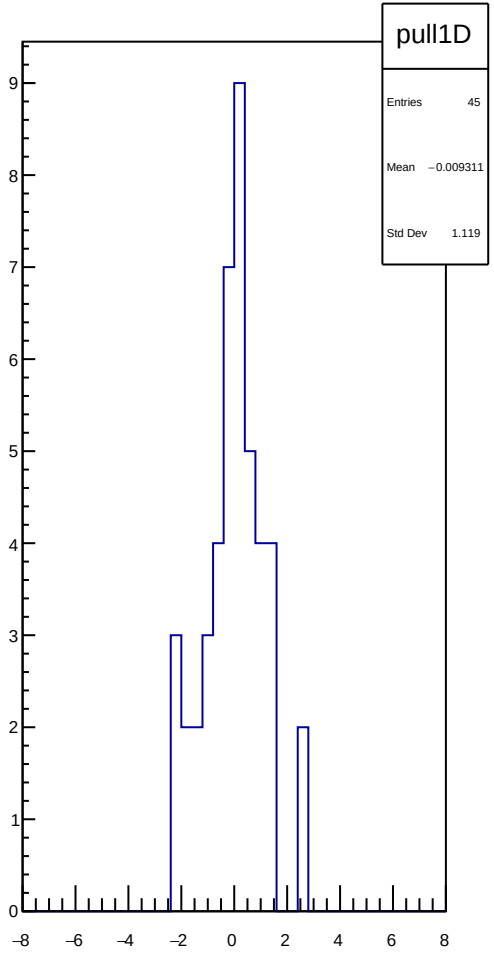

pull1D
Entries 45
Mean −0.006616
Std Dev 1.156
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

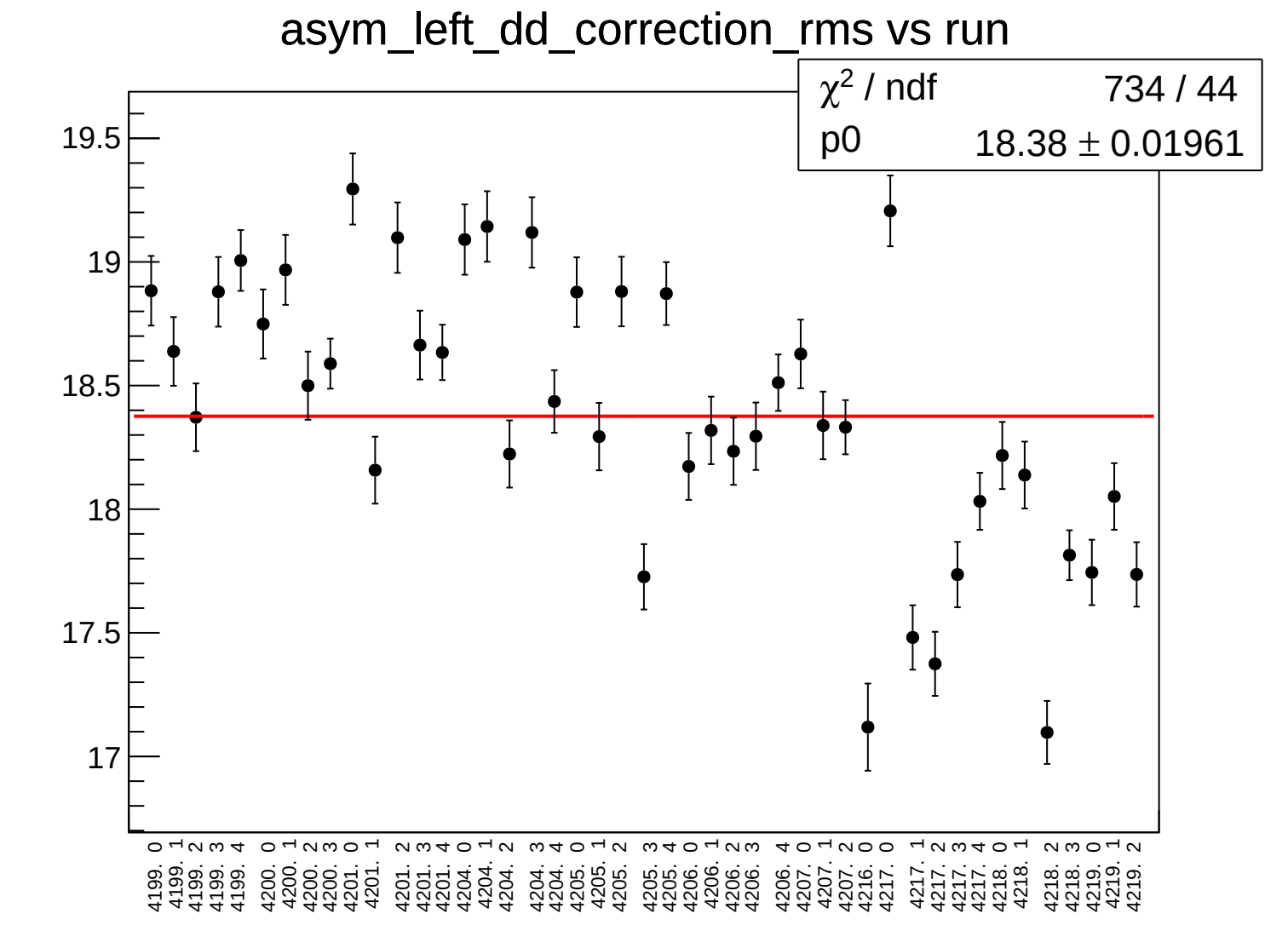

asym_left_avg_rms vs run
χ^2 / ndf 928.9 / 44
p0 542.3 ± 0.5789
580
560
540
520
500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

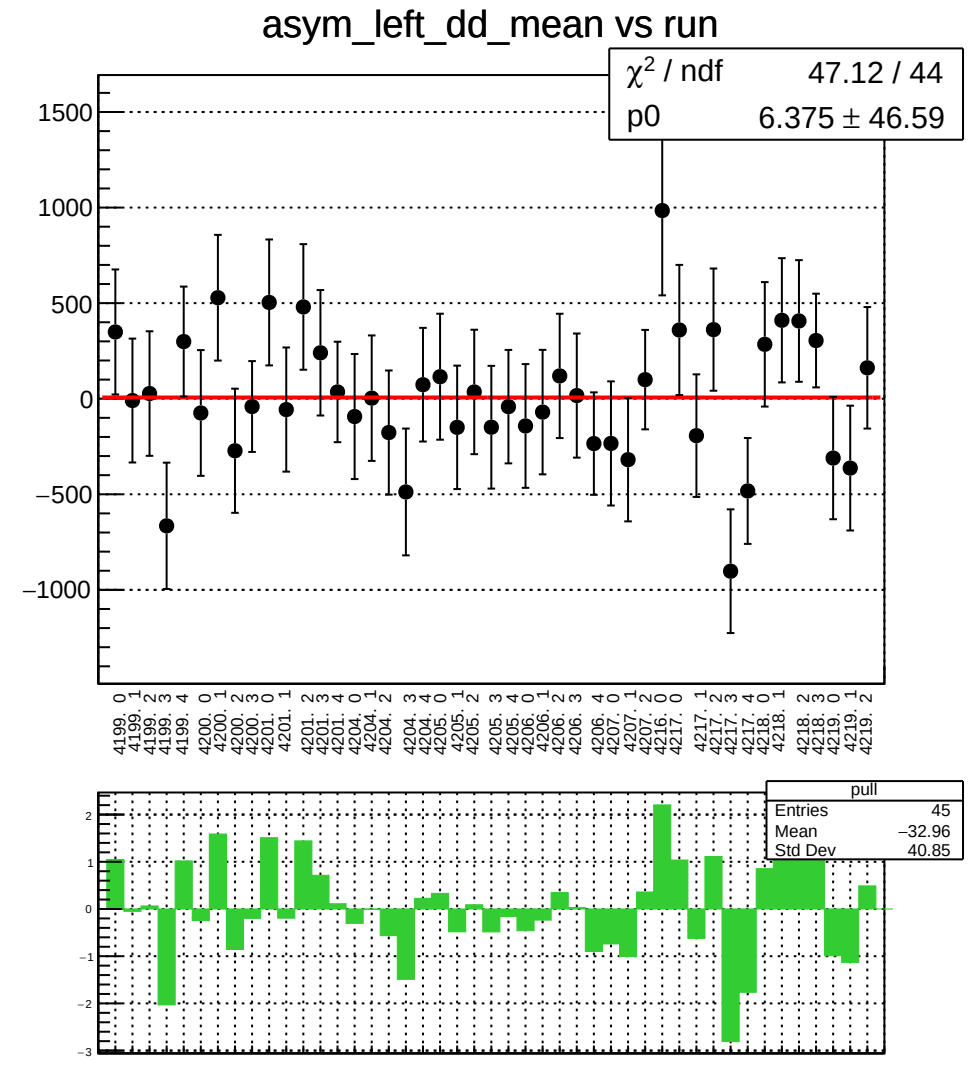

reg_asym_left_dd_mean vs run
χ^2 / ndf 34.71 / 44
p0 −40.32 ± 37.4
800
600
400
200
0
−200
−400
−600
−800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −37.3
Std Dev 28.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.009207
Std Dev 0.8782
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

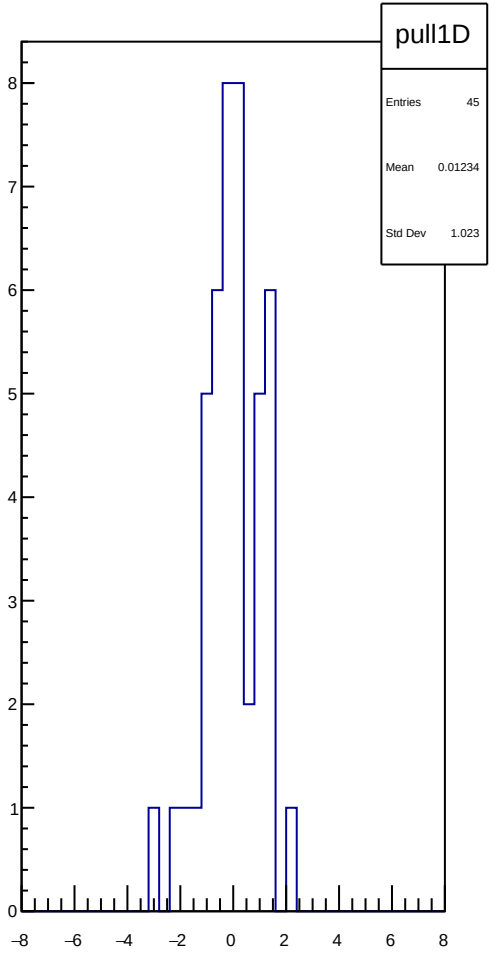

reg_asym_left_dd_rms vs run
χ² / ndf 86.73 / 44
p0 24.79 ± 0.02645
26.2
26
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4
24.2
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

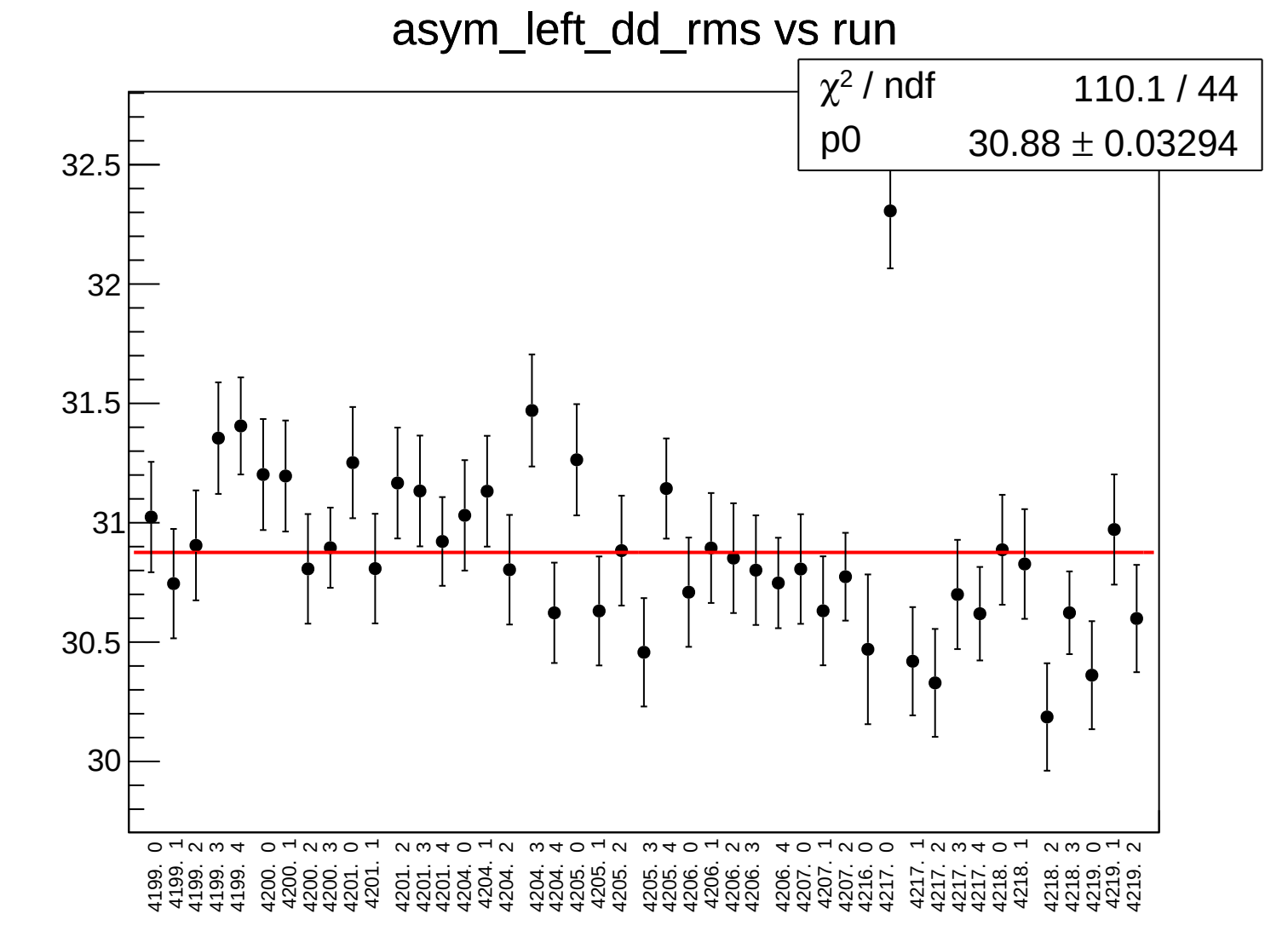

asym_left_dd_correction_mean vs run
χ² / ndf 56.4 / 44
p0 −46.62 ± 27.74
600
400
200
0
−200
−400
−600
−800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −28.96
Std Dev 73.72
2
1
0
−1
−2

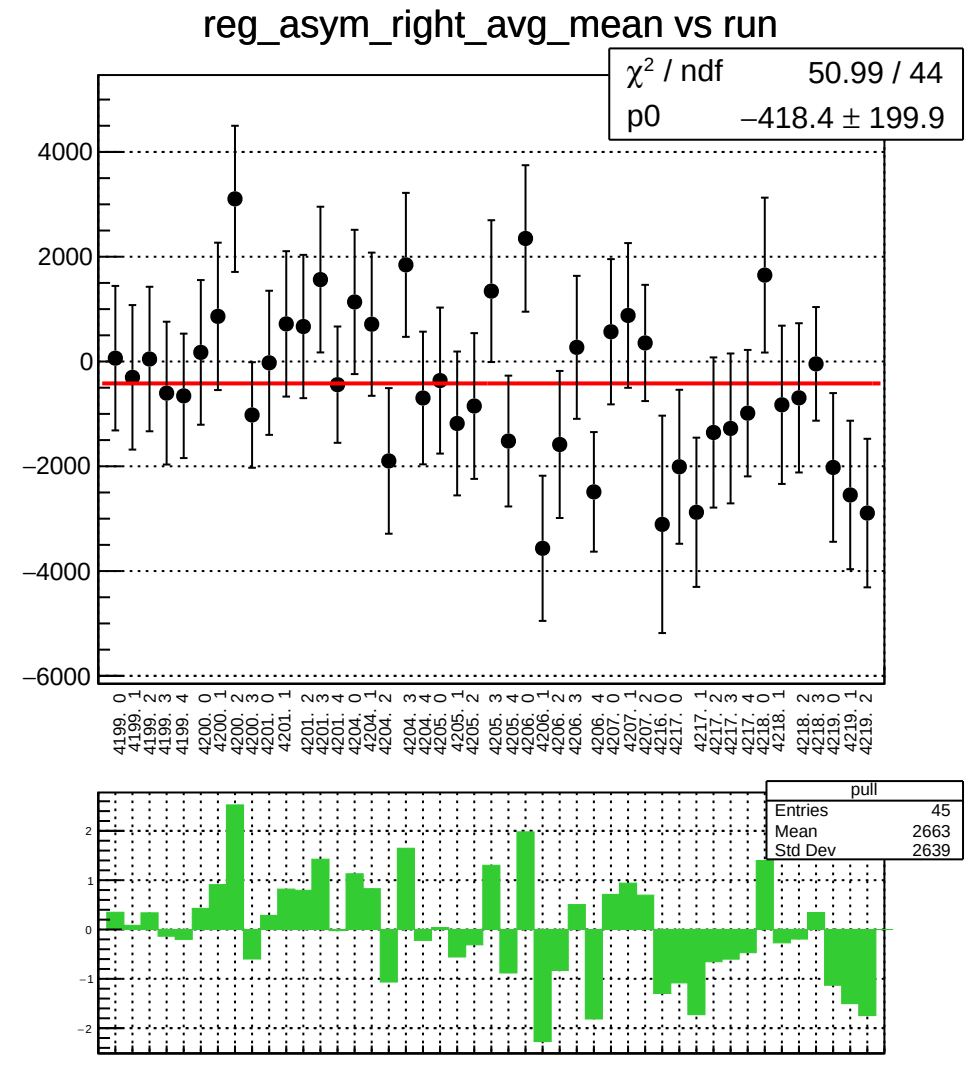

pull1D
Entries 45
Mean −0.009311
Std Dev 1.119
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

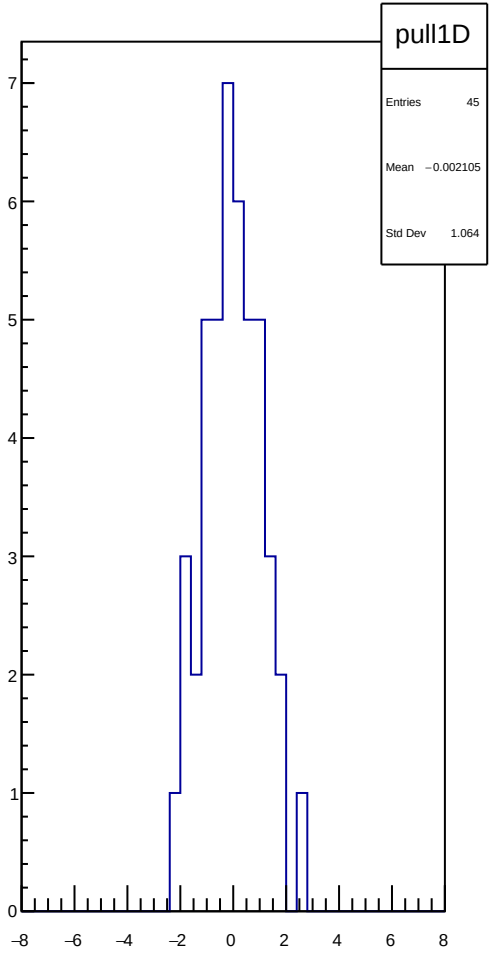

asym_left_dd_correction_rms vs run
χ² / ndf 734 / 44
p0 18.38 ± 0.01961
19.5
19
18.5
18
17.5
17
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

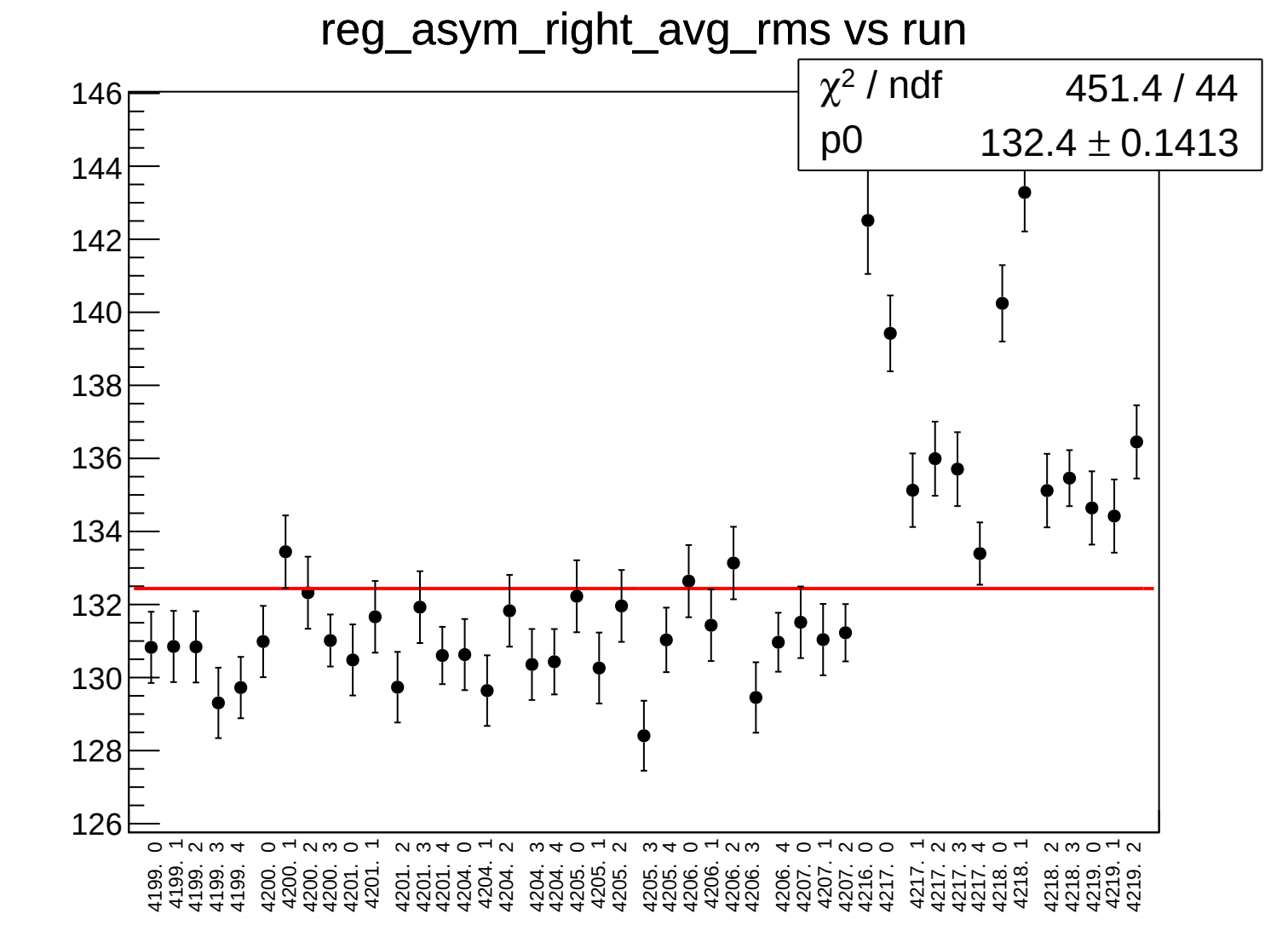

asym_left_dd_mean vs run
χ^2 / ndf 47.12 / 44
p0 6.375 ± 46.59
1500
1000
500
0
−500
−1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −32.96
Std Dev 40.85
2
1
0
−1
−2
−3

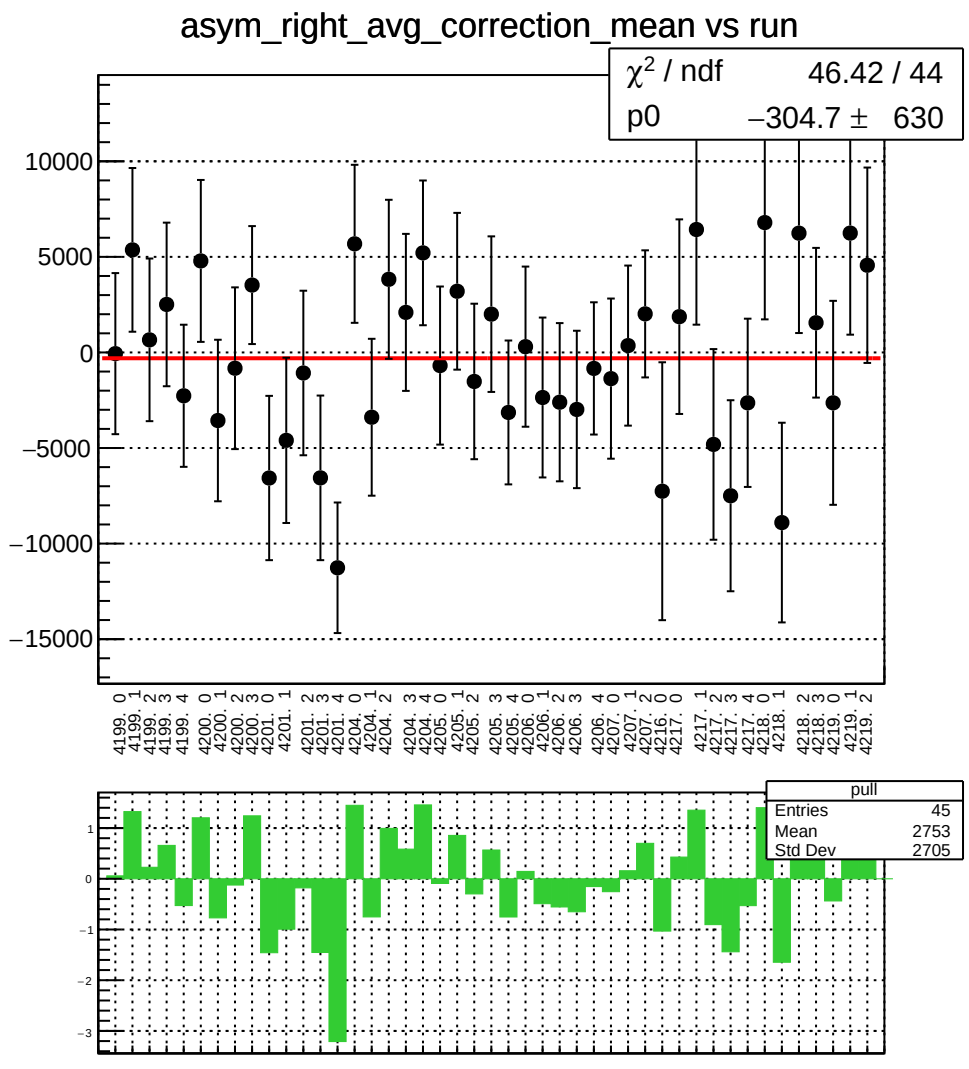

pull1D
Entries 45
Mean 0.01234
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

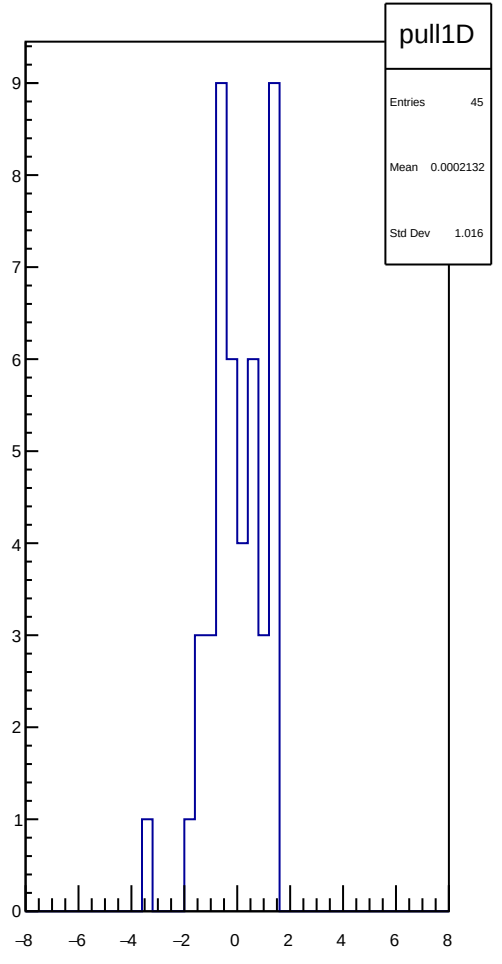

asym_left_dd_rms vs run
χ² / ndf 110.1 / 44
p0 30.88 ± 0.03294
32.5
32
31.5
31
30.5
30
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

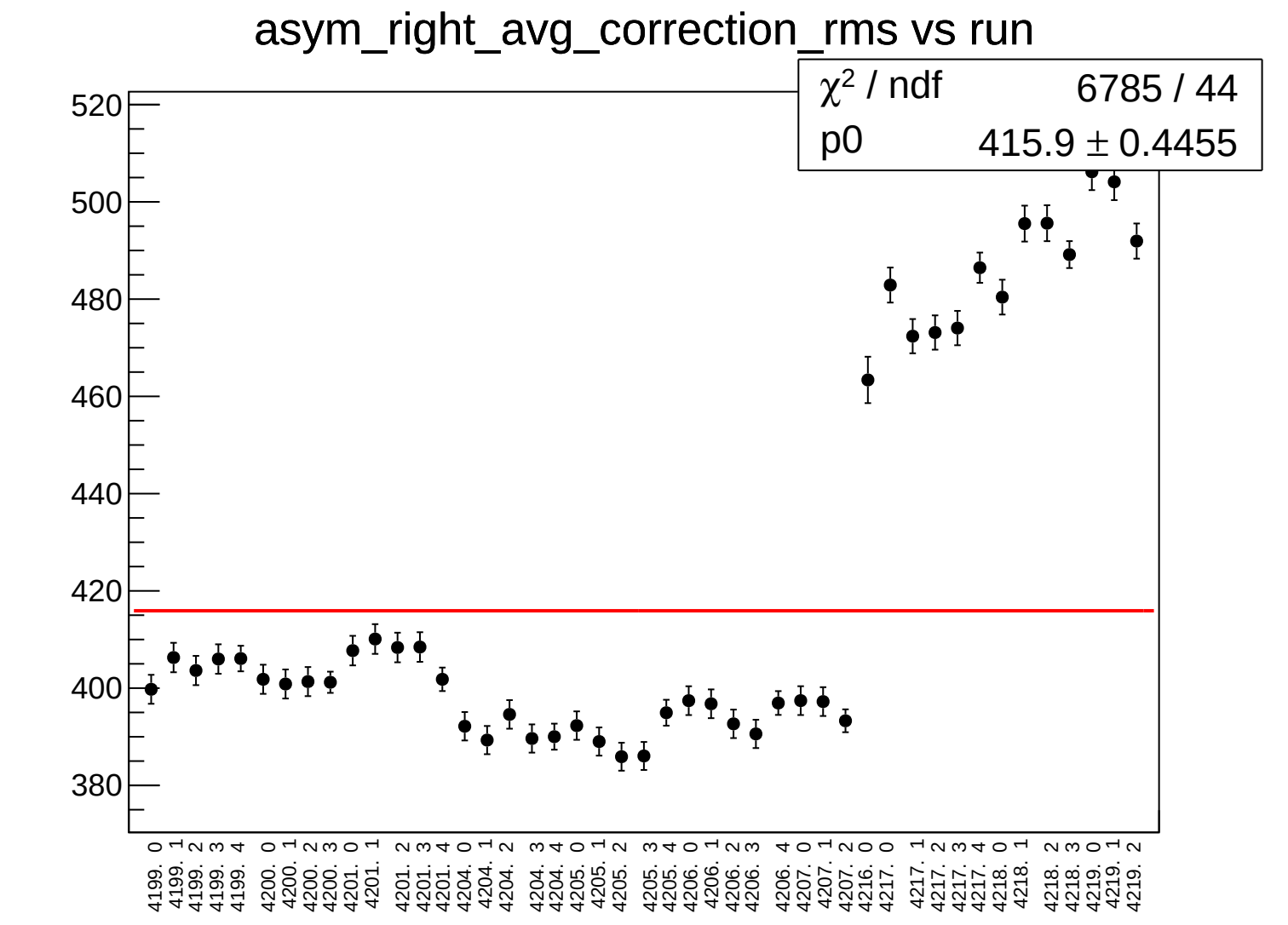

reg_asym_right_avg_mean vs run
χ² / ndf 50.99 / 44
p0 −418.4 ± 199.9
4000
2000
0
−2000
−4000
−6000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 2663
Std Dev 2639
2
1
0
−1
−2

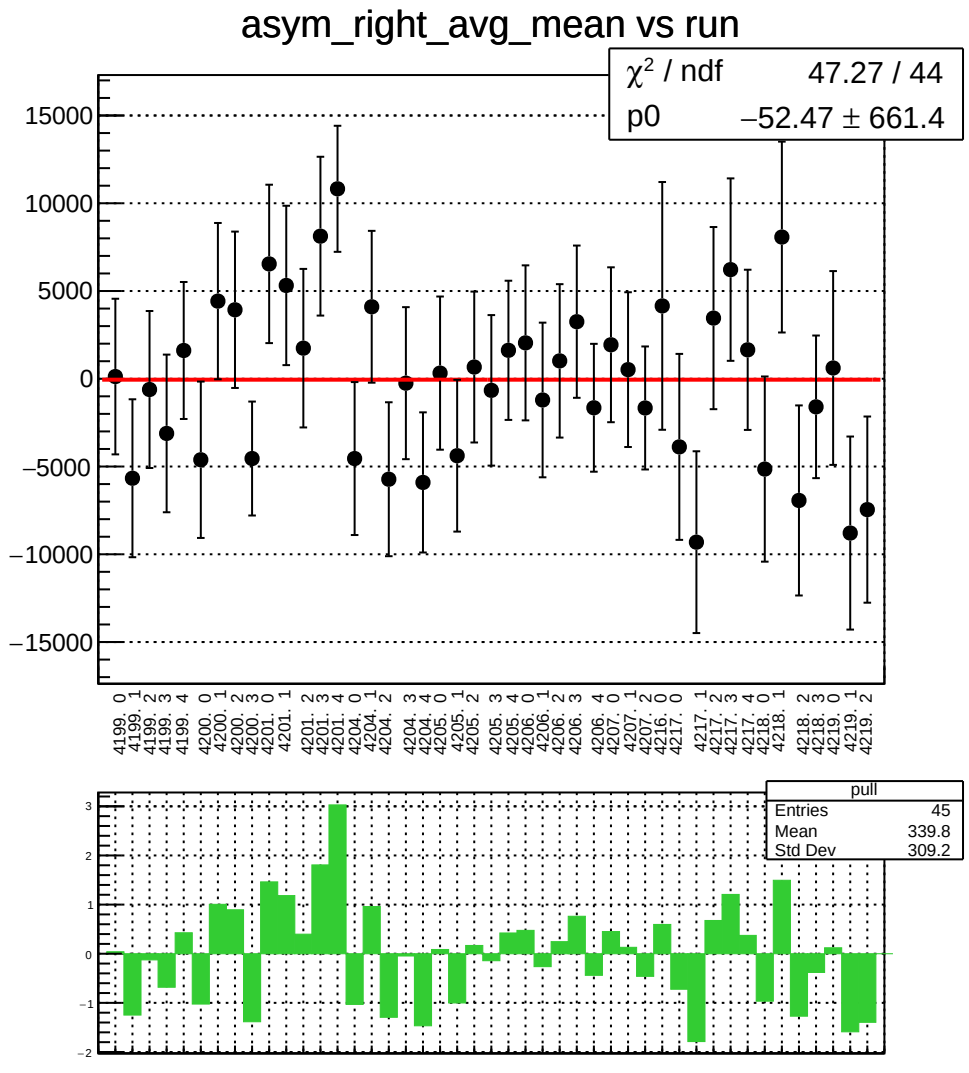

pull1D
Entries 45
Mean −0.002105
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

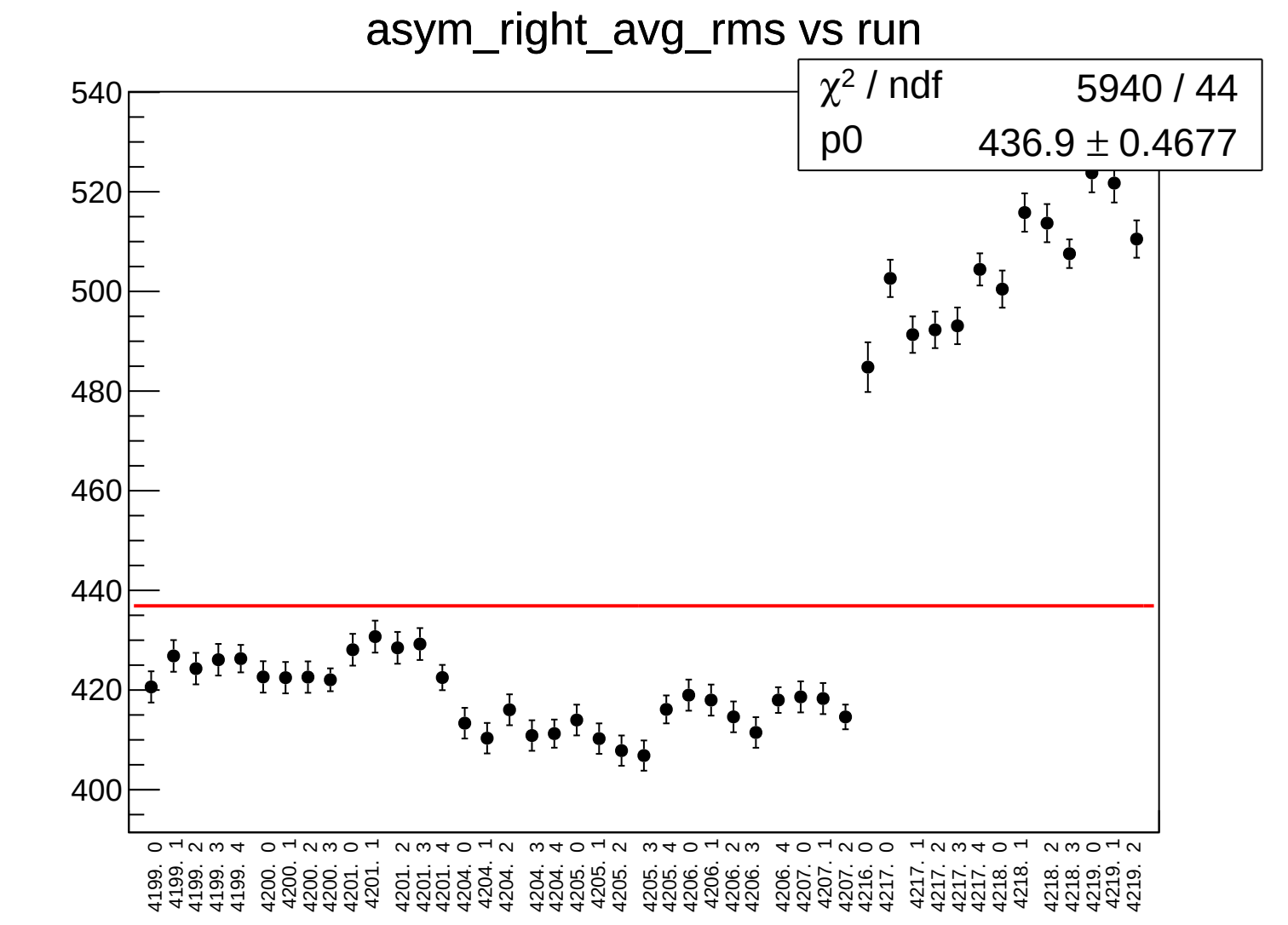

reg_asym_right_avg_rms vs run
χ^2 / ndf 451.4 / 44
p0 132.4 ± 0.1413
146
144
142
140
138
136
134
132
130
128
126
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

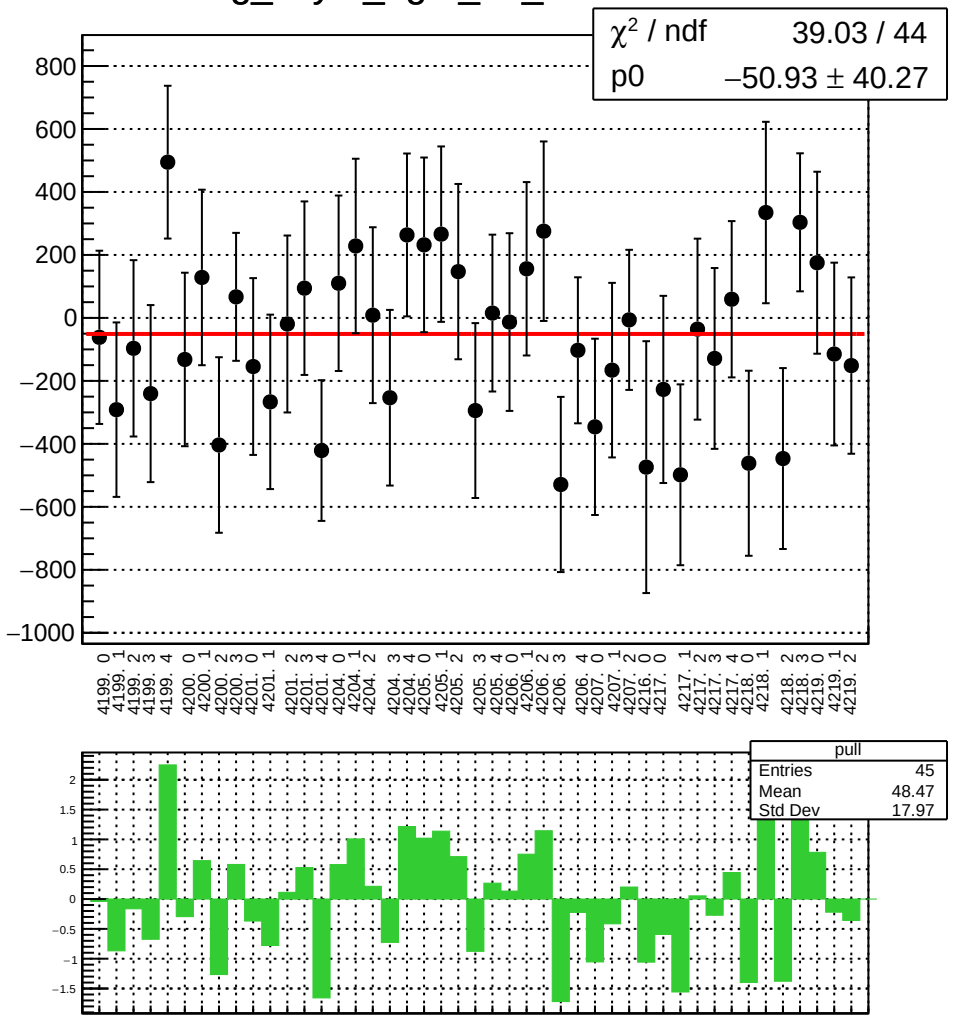

asym_right_avg_correction_mean vs run
χ² / ndf 46.42 / 44
p0 −304.7 ± 630
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 2753
Std Dev 2705
1
0
−1
−2
−3

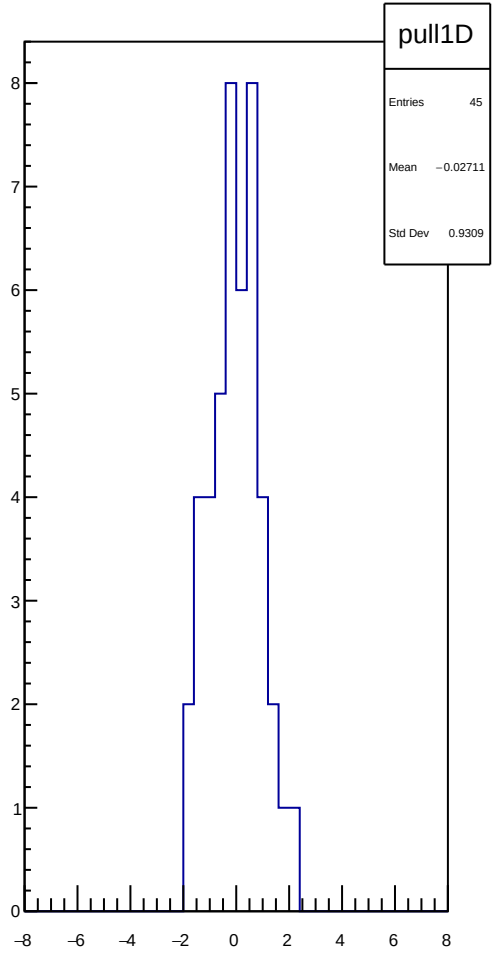

pull1D
Entries 45
Mean 0.0002132
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

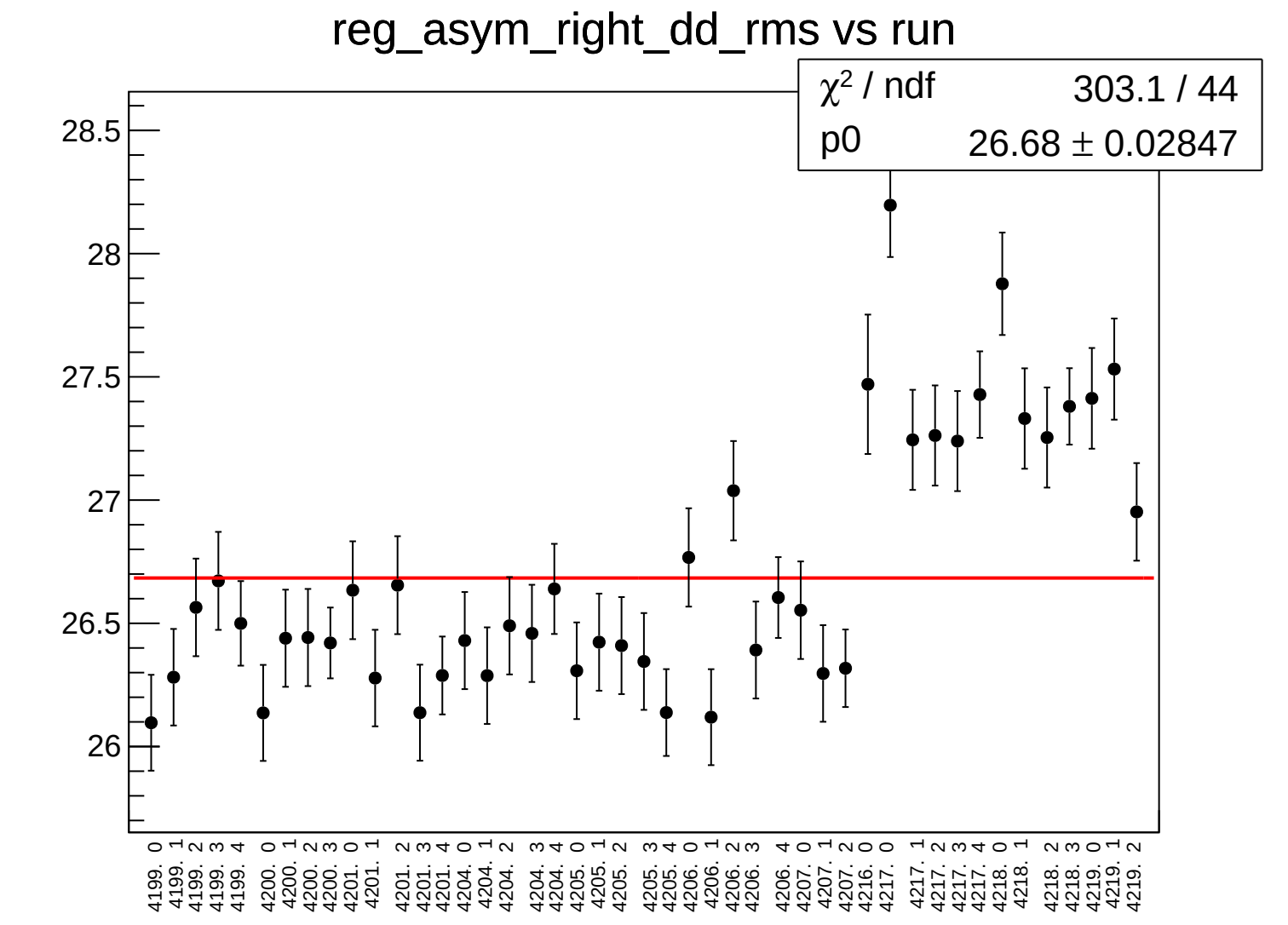

asym_right_avg_correction_rms vs run
χ² / ndf 6785 / 44
p0 415.9 ± 0.4455
520
500
480
460
440
420
400
380
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

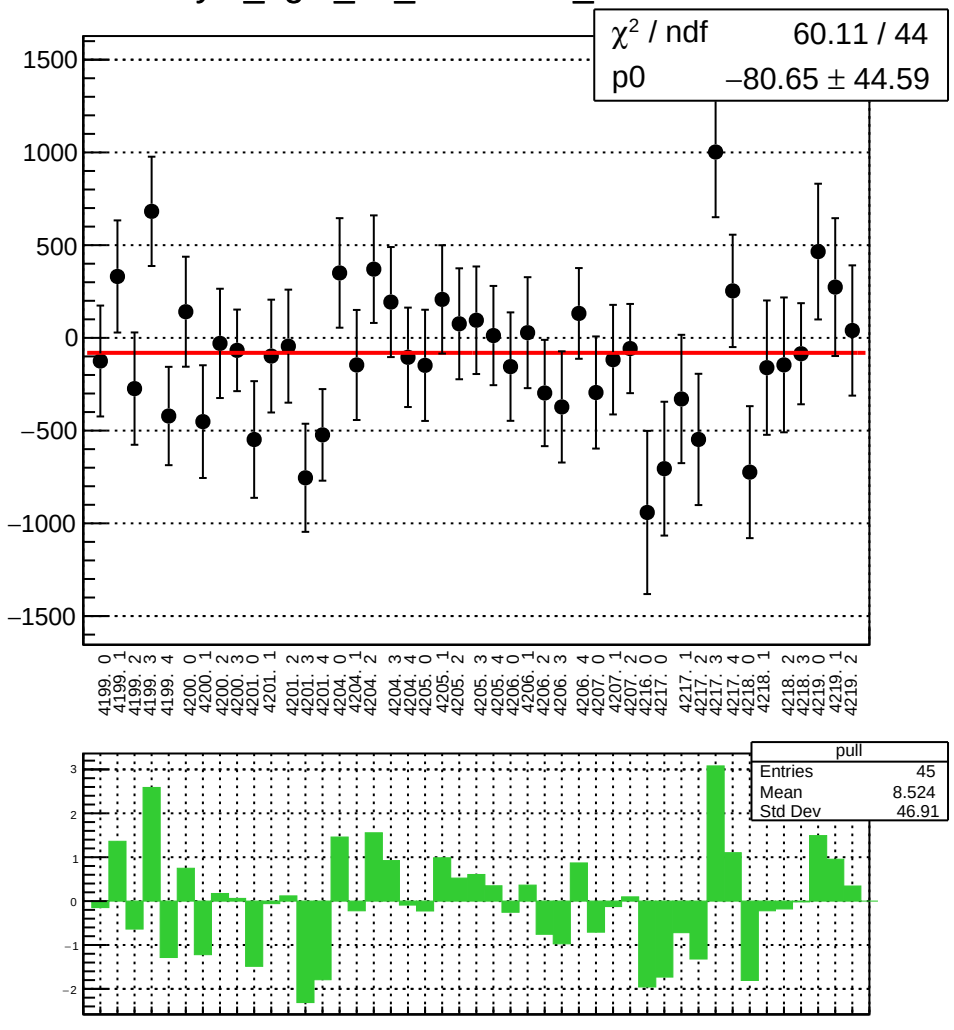

asym_right_avg_mean vs run
χ² / ndf 47.27 / 44
p0 −52.47 ± 661.4
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 4
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 339.8
Std Dev 309.2
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.006773
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

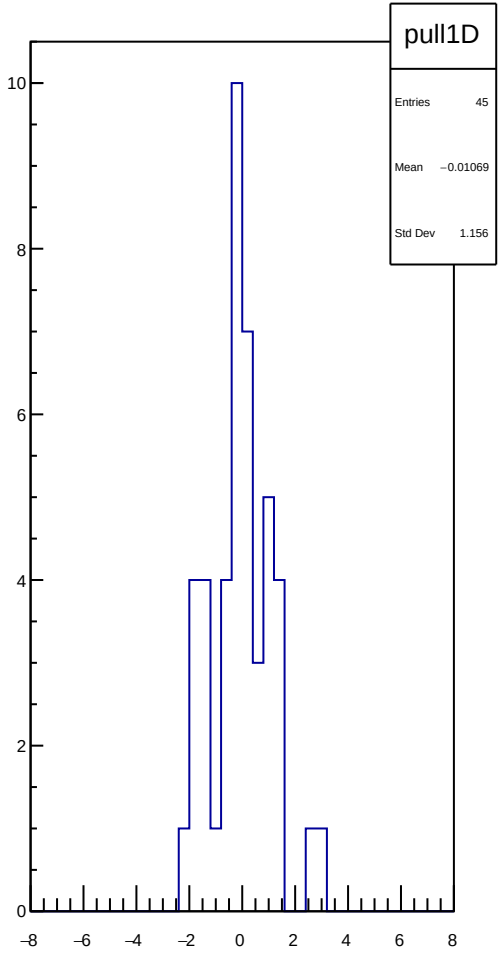

asym_right_avg_rms vs run
χ² / ndf 5940 / 44
p0 436.9 ± 0.4677
540
520
500
480
460
440
420
400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

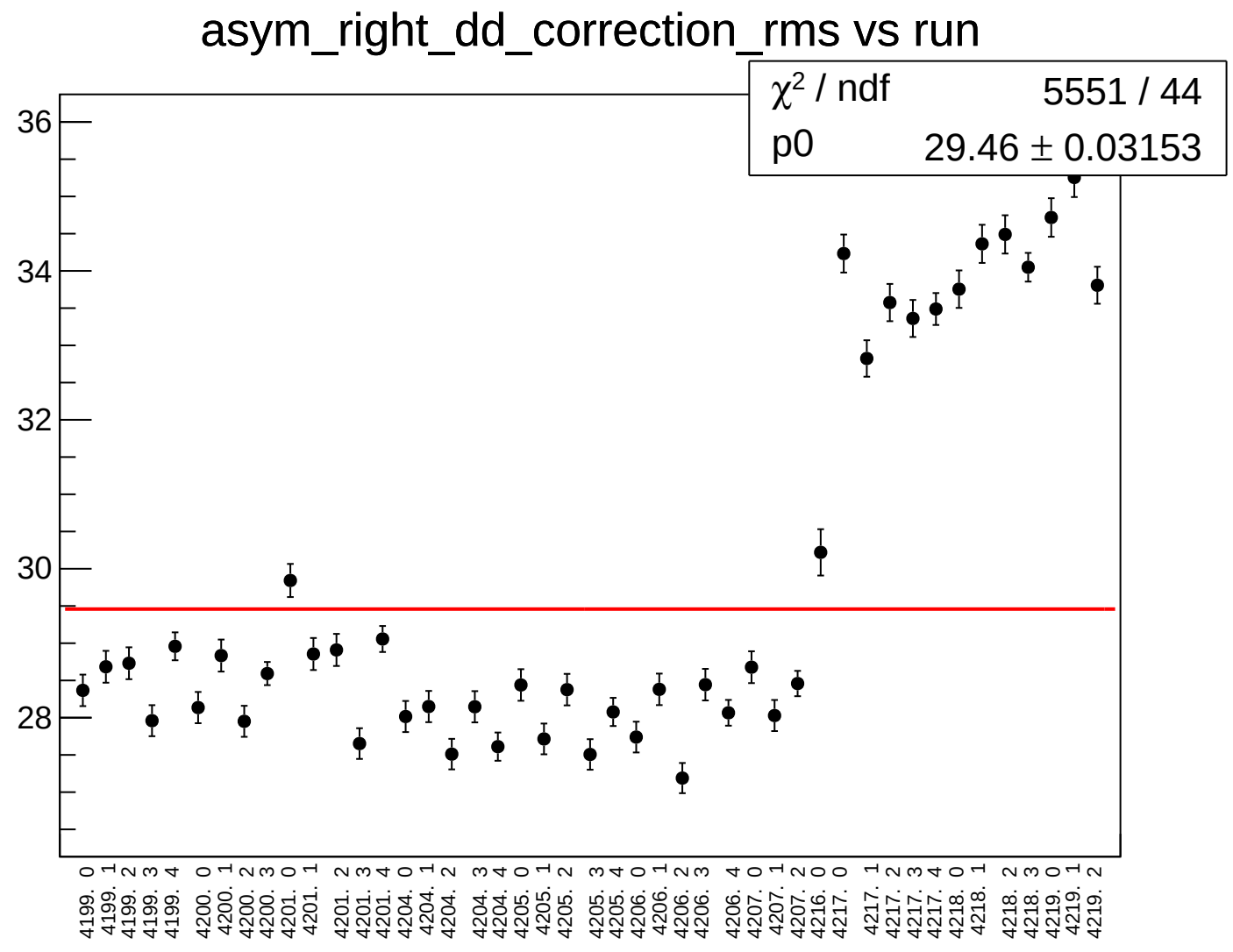

reg_asym_right_dd_mean vs run
χ² / ndf 39.03 / 44
p0 −50.93 ± 40.27
pull
Entries 45
Mean 48.47
Std Dev 17.97

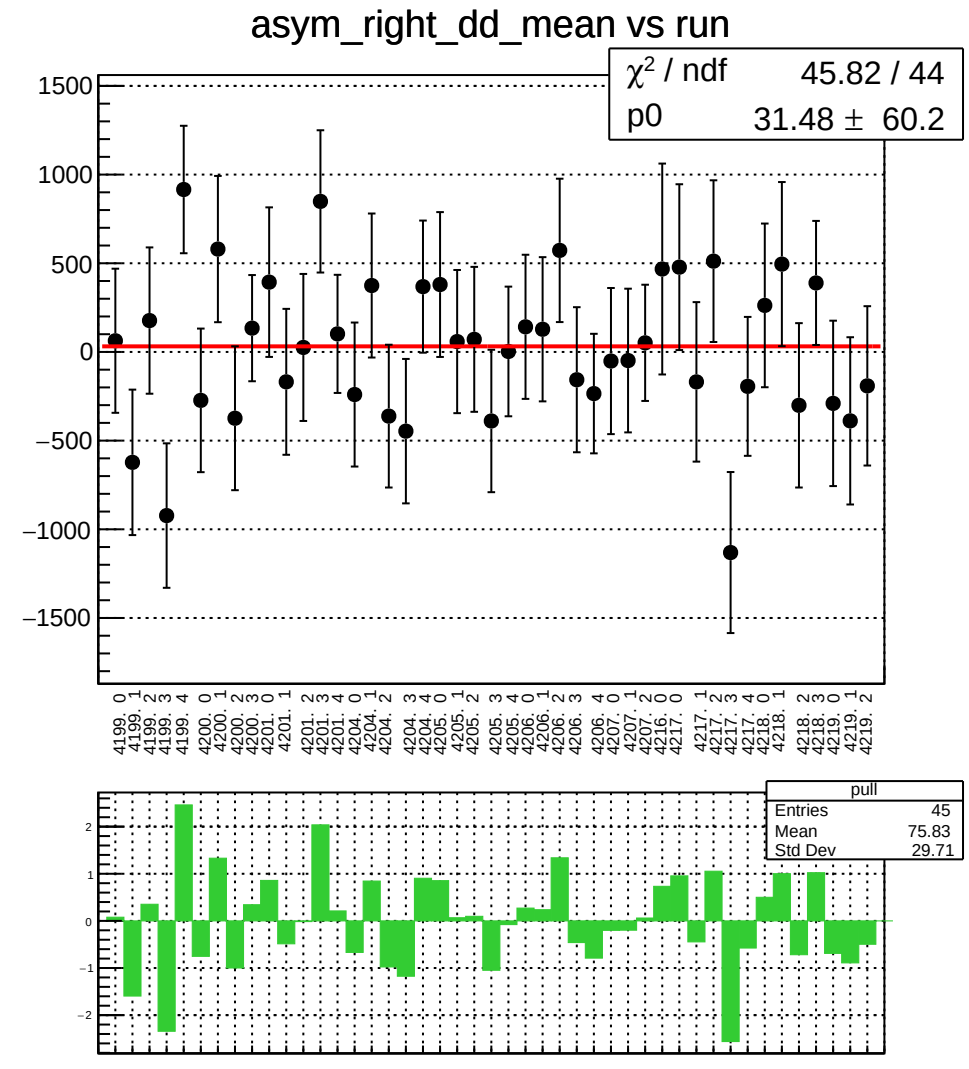

pull1D
Entries 45
Mean −0.02711
Std Dev 0.9309

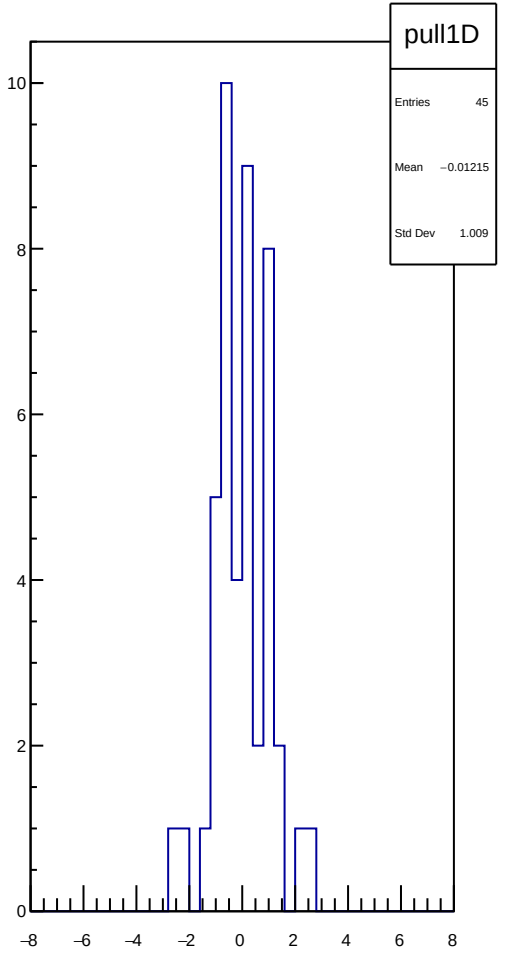

reg_asym_right_dd_rms vs run
χ² / ndf 303.1 / 44
p0 26.68 ± 0.02847
28.5
28
27.5
27
26.5
26
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

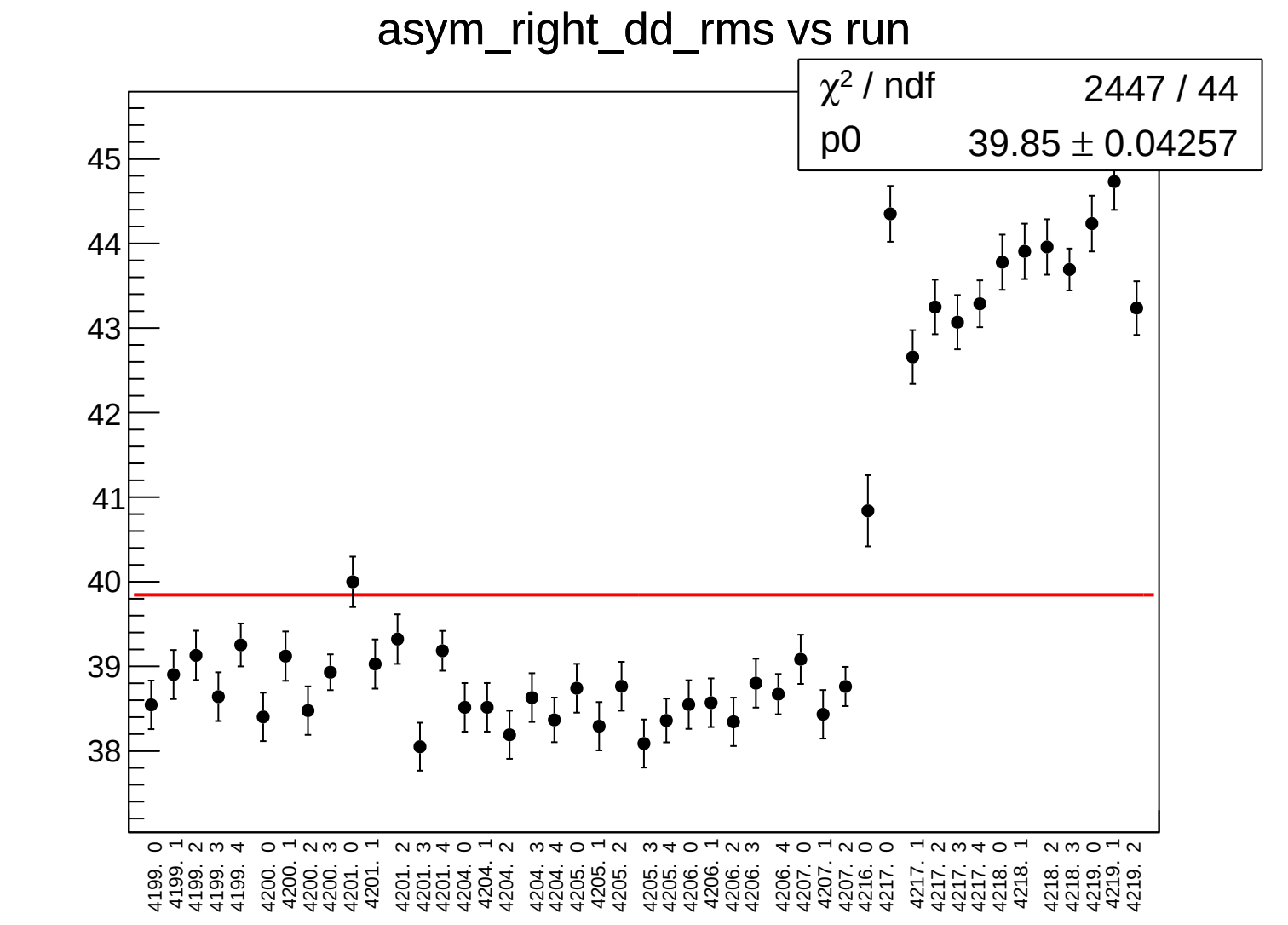

asym_right_dd_correction_mean vs run
χ² / ndf 60.11 / 44
p0 −80.65 ± 44.59
1500
1000
500
0
−500
−1000
−1500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 8.524
Std Dev 46.91
3
2
1
0
−1
−2

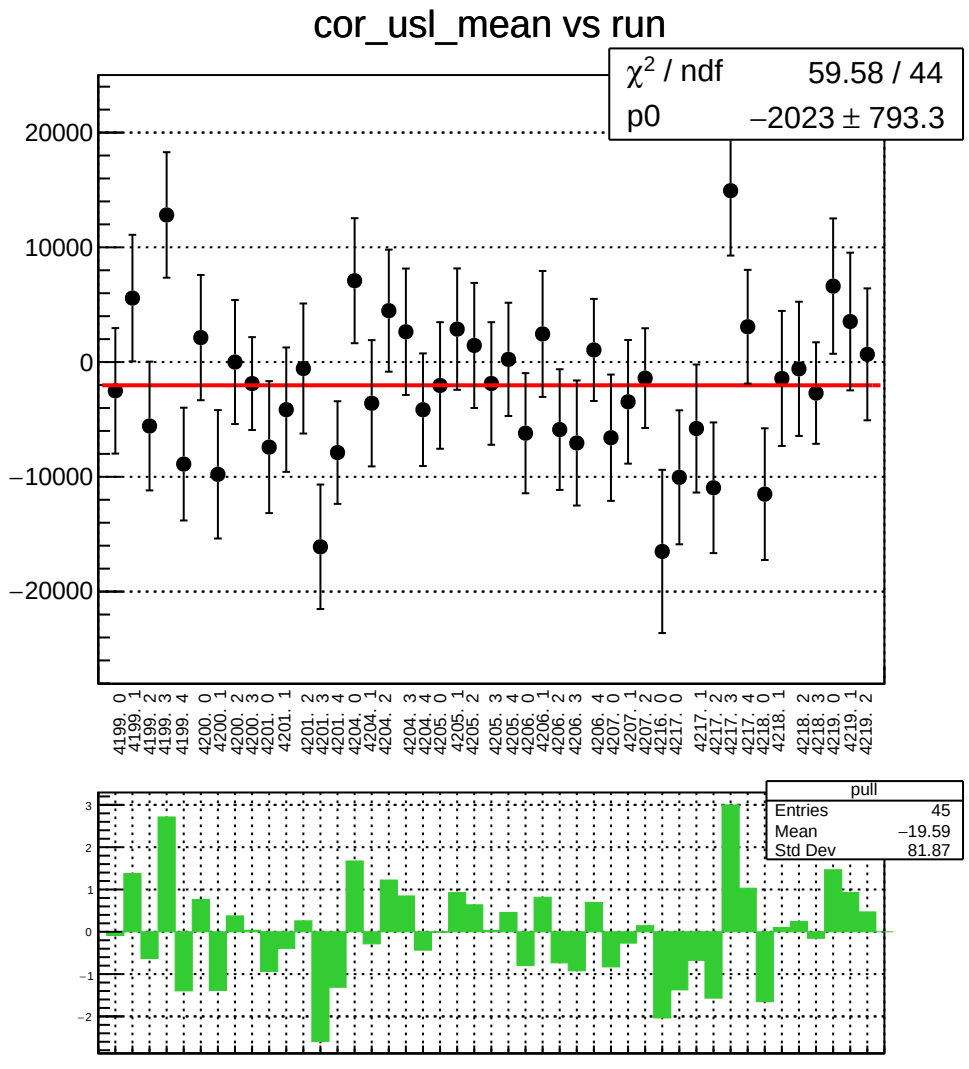

pull1D
Entries 45
Mean −0.01069
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

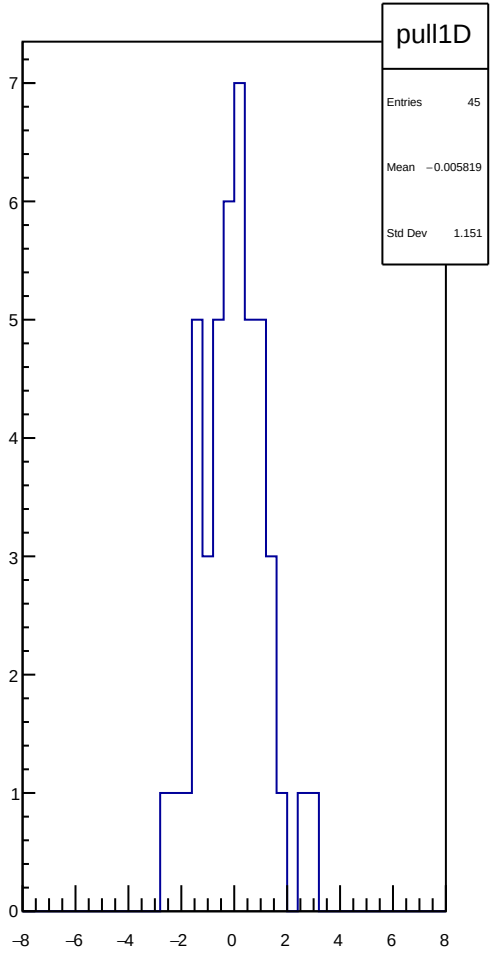

asym_right_dd_correction_rms vs run
χ² / ndf 5551 / 44
p0 29.46 ± 0.03153
36
34
32
30
28
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

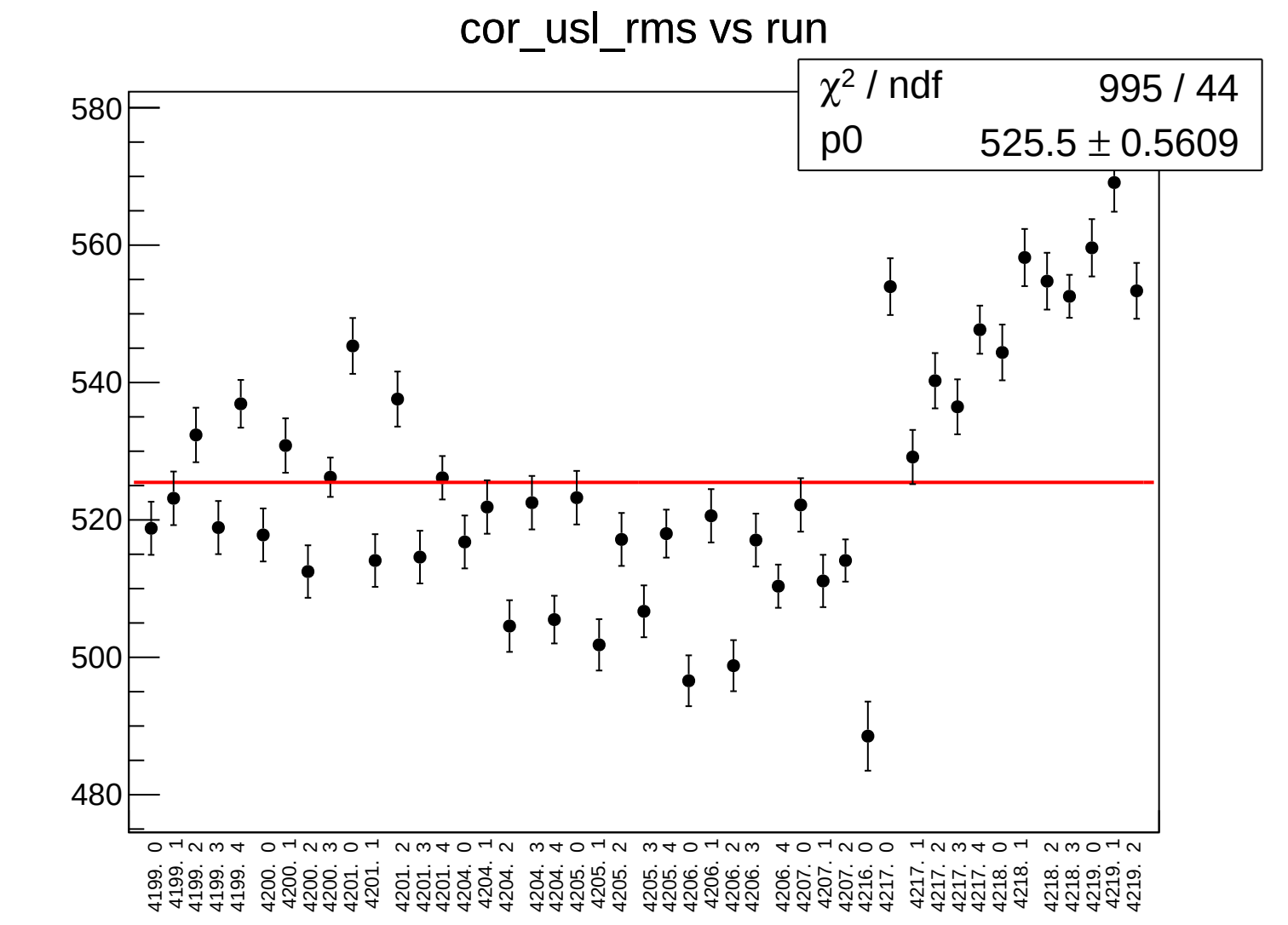

asym_right_dd_mean vs run
χ² / ndf 45.82 / 44
p0 31.48 ± 60.2
1500
1000
500
0
−500
−1000
−1500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 75.83
Std Dev 29.71
2
1
0
−1
−2

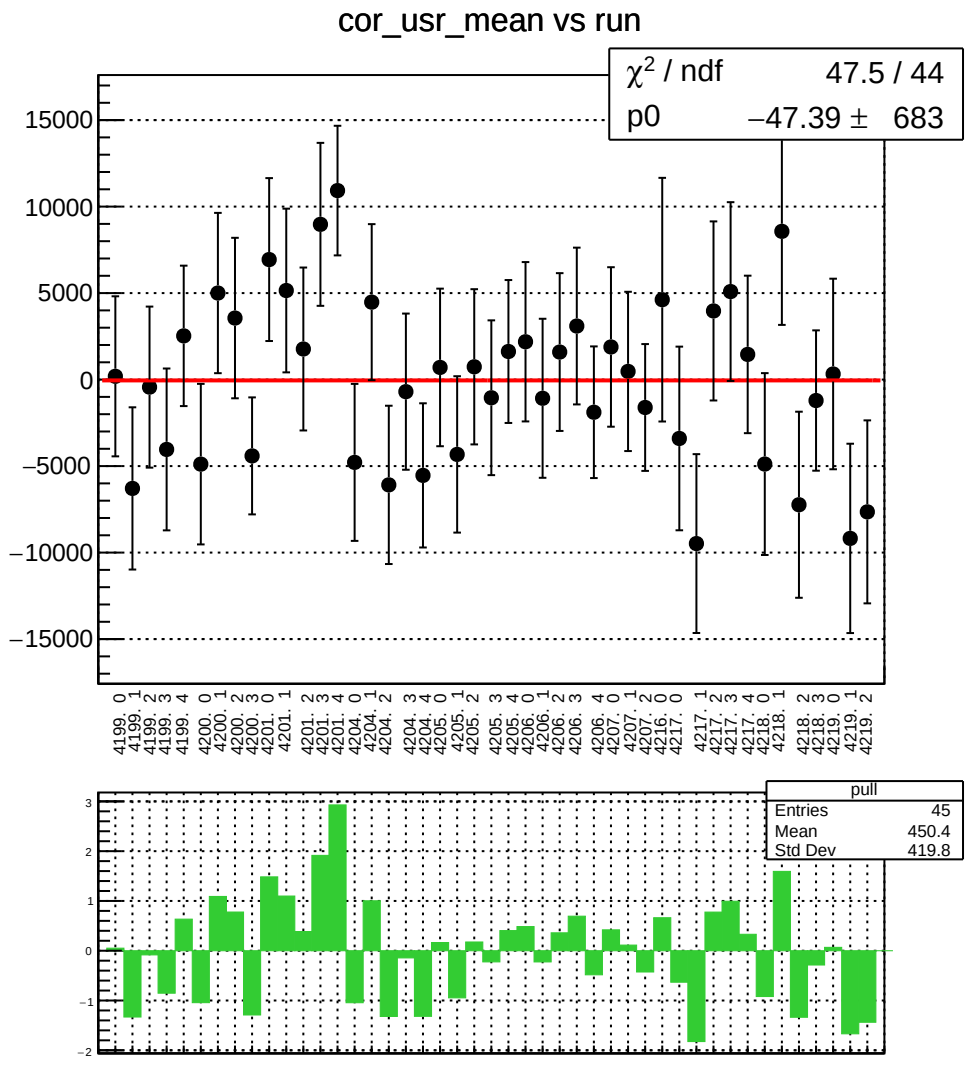

pull1D
Entries 45
Mean −0.01215
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

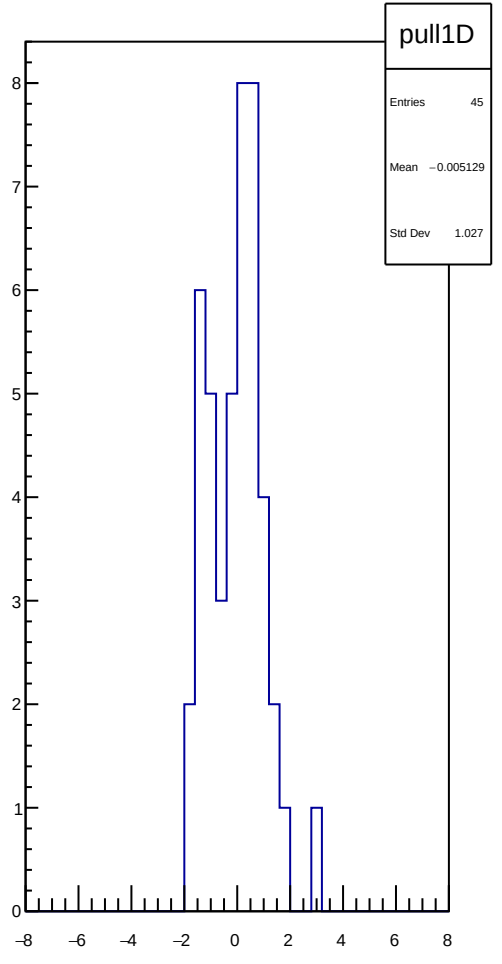

asym_right_dd_rms vs run
χ² / ndf 2447 / 44
p0 39.85 ± 0.04257
45
44
43
42
41
40
39
38
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

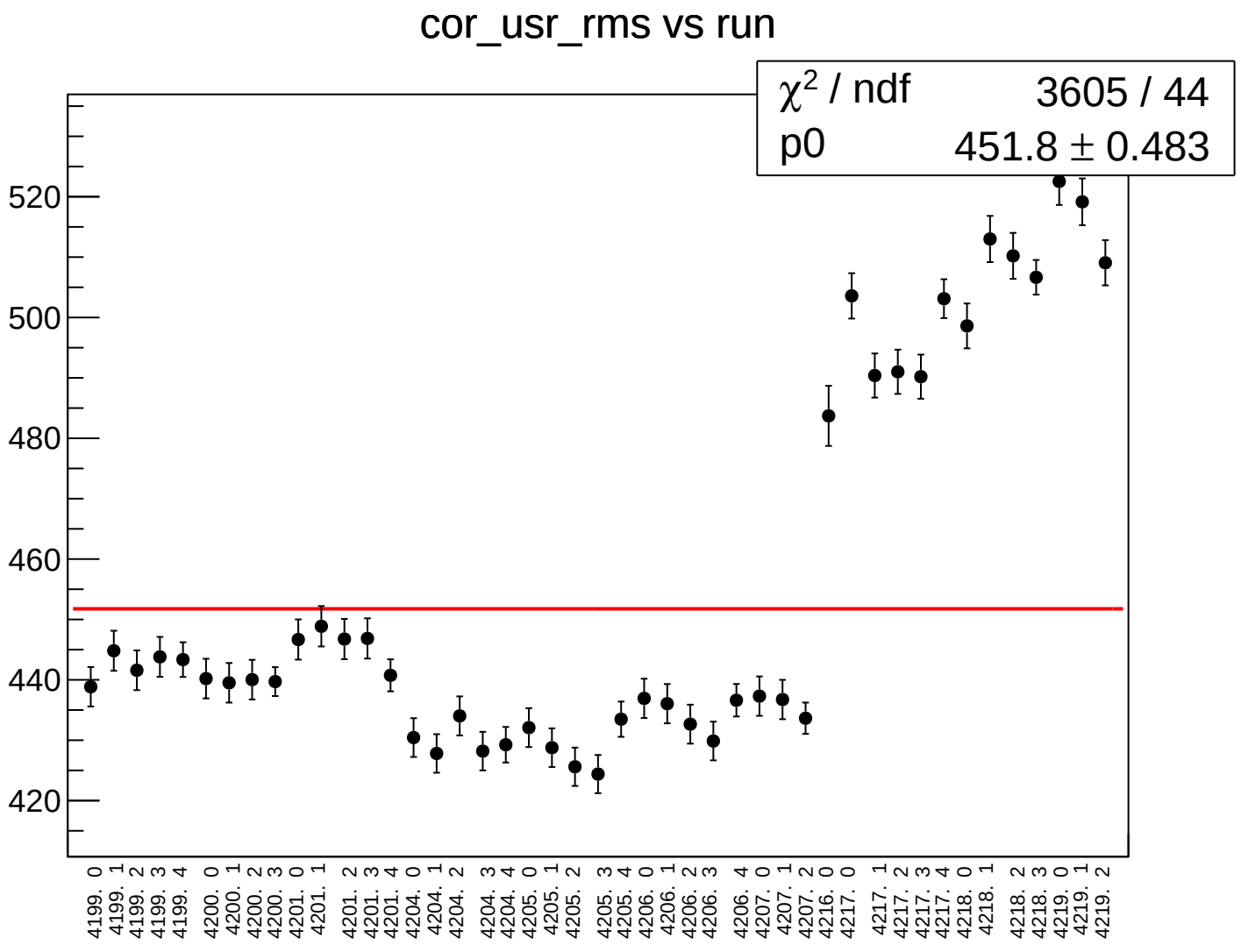

cor_usl_mean vs run
χ² / ndf 59.58 / 44
p0 −2023 ± 793.3
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −19.59
Std Dev 81.87
3
2
1
0
−1
−2

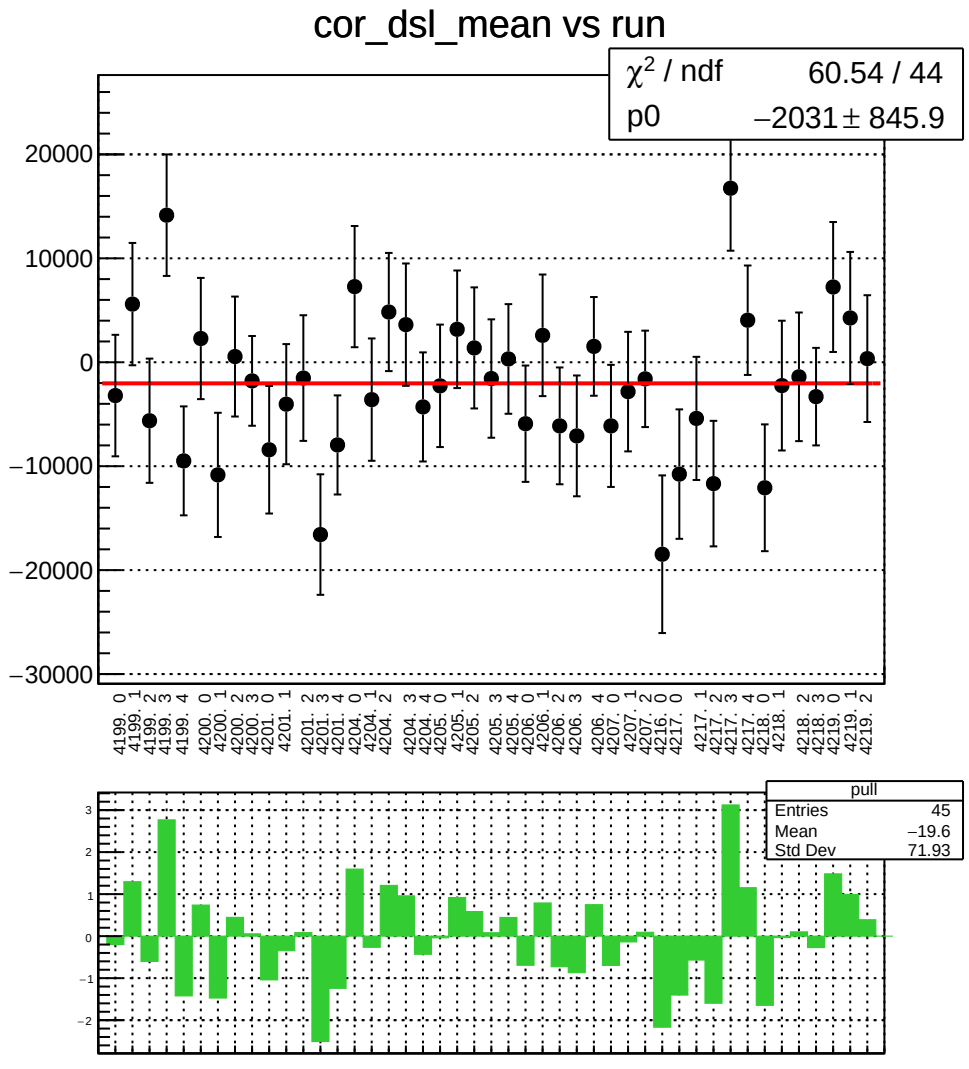

pull1D
Entries 45
Mean −0.005819
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

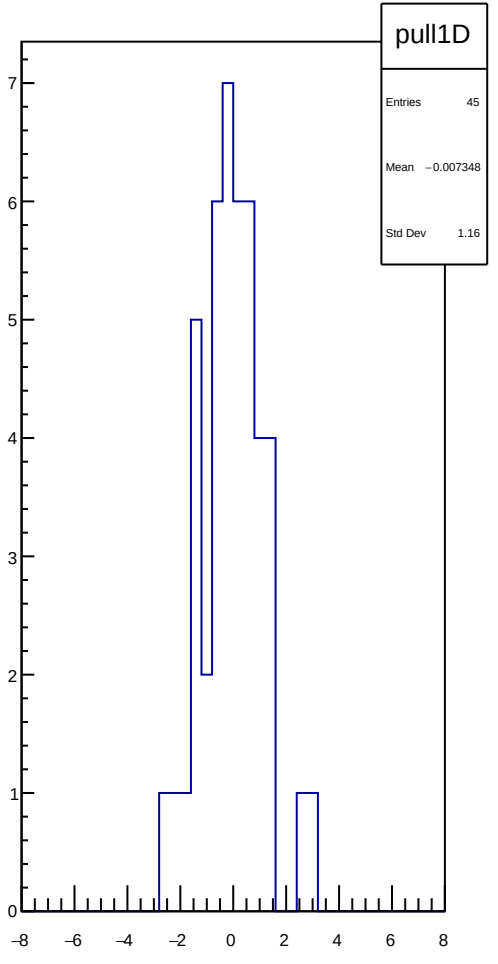

cor_usl_rms vs run
χ² / ndf 995 / 44
p0 525.5 ± 0.5609
580
560
540
520
500
480
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

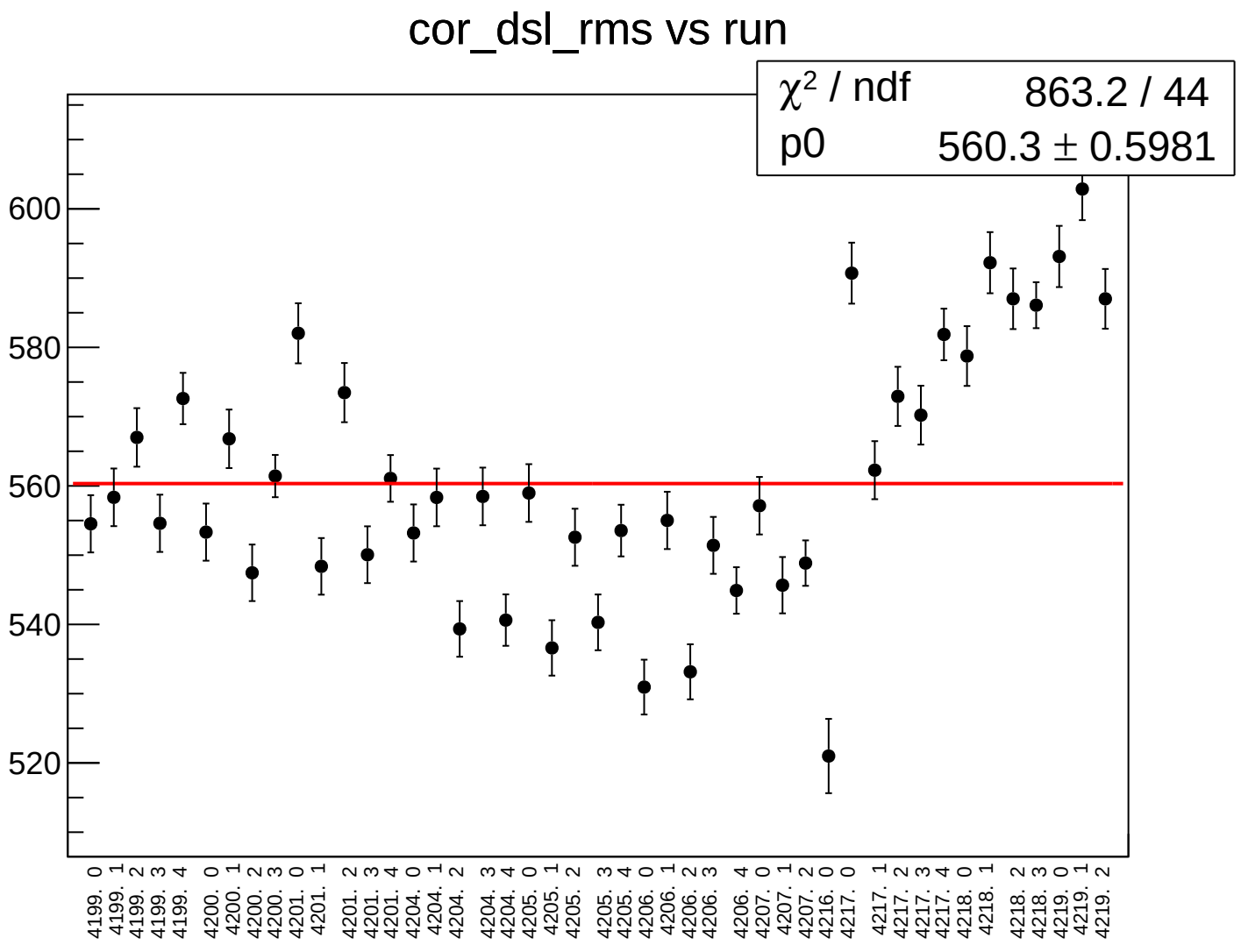

cor_usr_mean vs run
χ² / ndf 47.5 / 44
p0 −47.39 ± 683
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 450.4
Std Dev 419.8
3
2
1
0
−1
−2

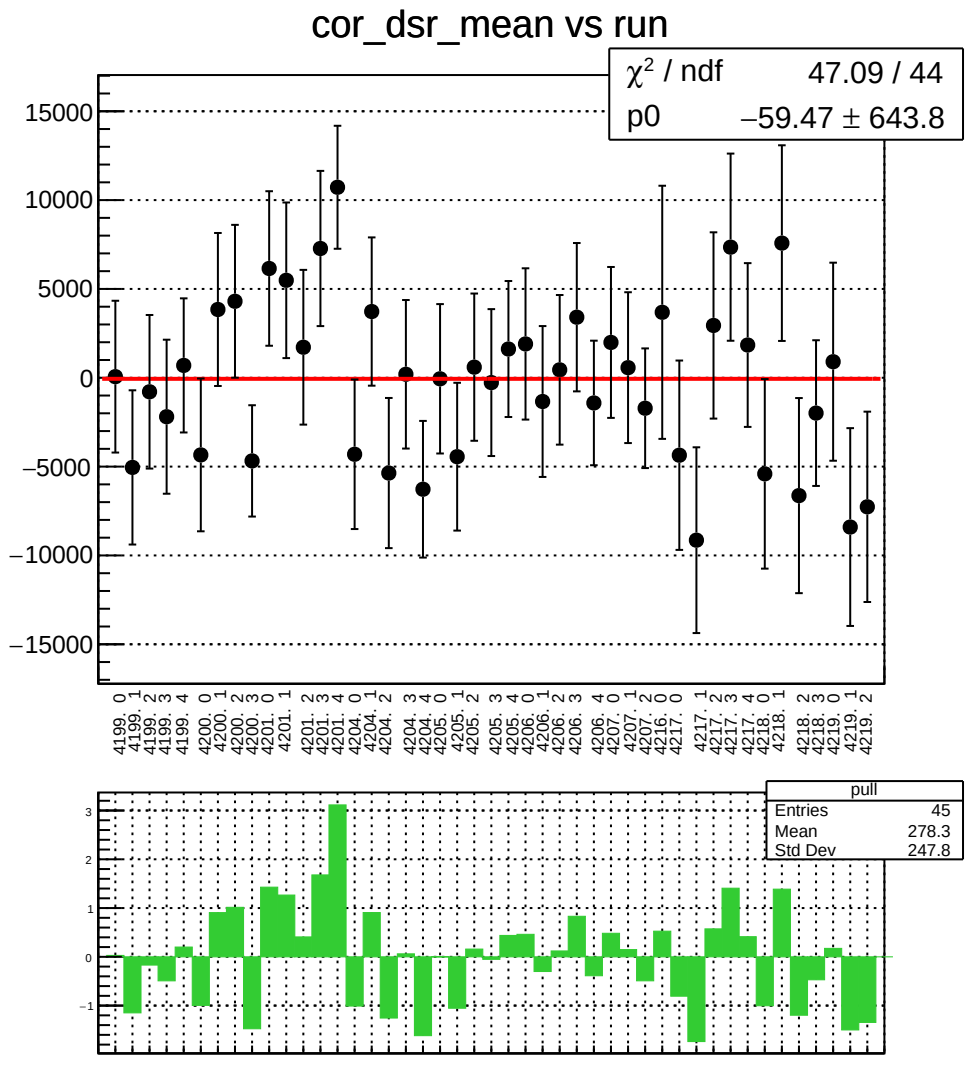

pull1D
Entries 45
Mean −0.005129
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

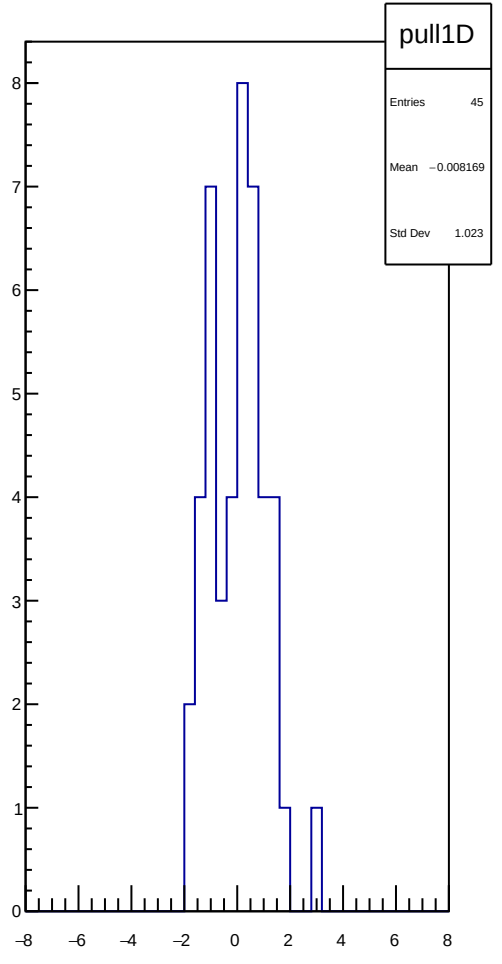

cor_usr_rms vs run
χ² / ndf 3605 / 44
p0 451.8 ± 0.483
520
500
480
460
440
420
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

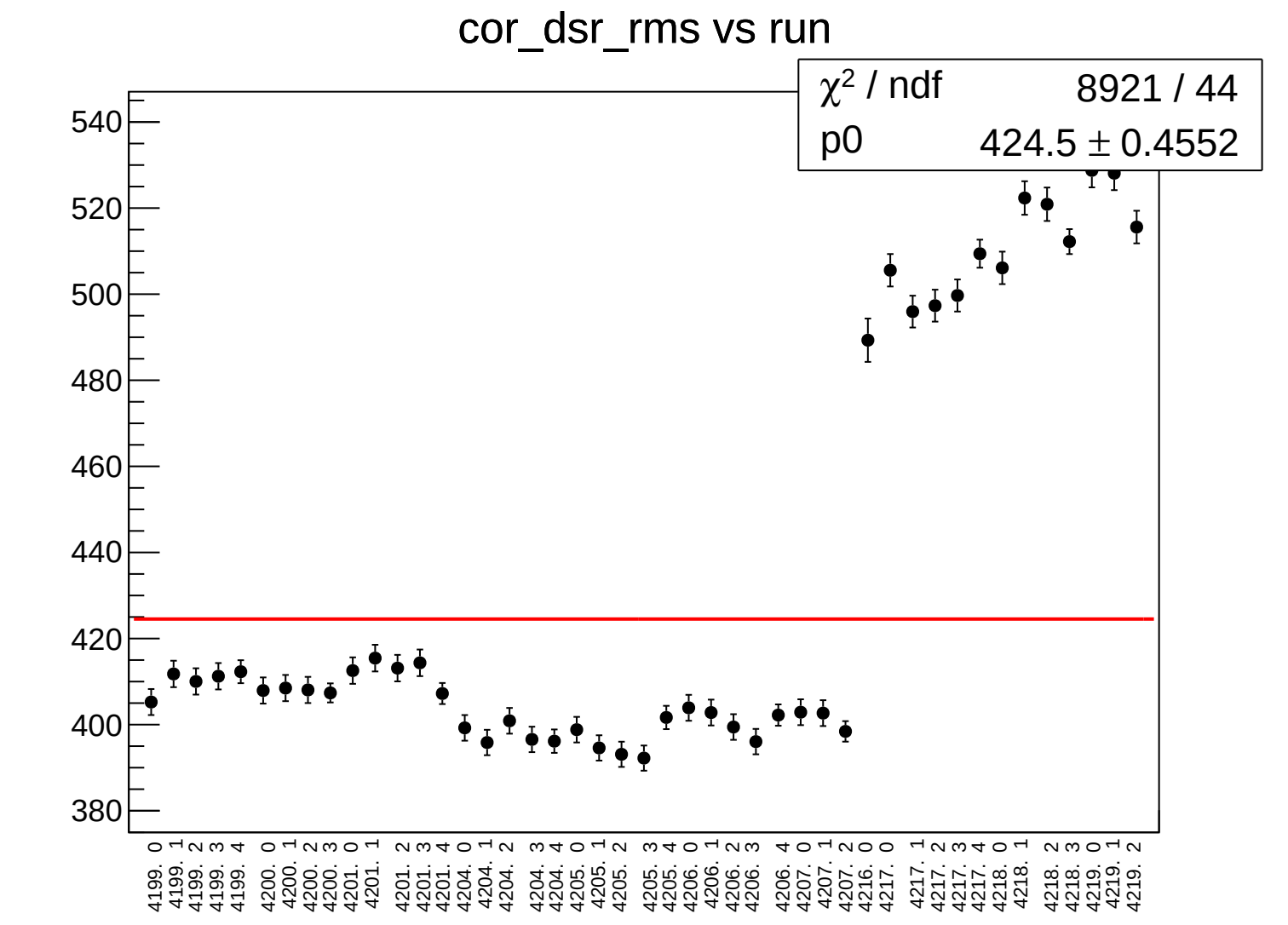

cor_dsl_mean vs run
χ² / ndf 60.54 / 44
p0 −2031 ± 845.9
20000
10000
0
−10000
−20000
−30000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −19.6
Std Dev 71.93
3
2
1
0
−1
−2

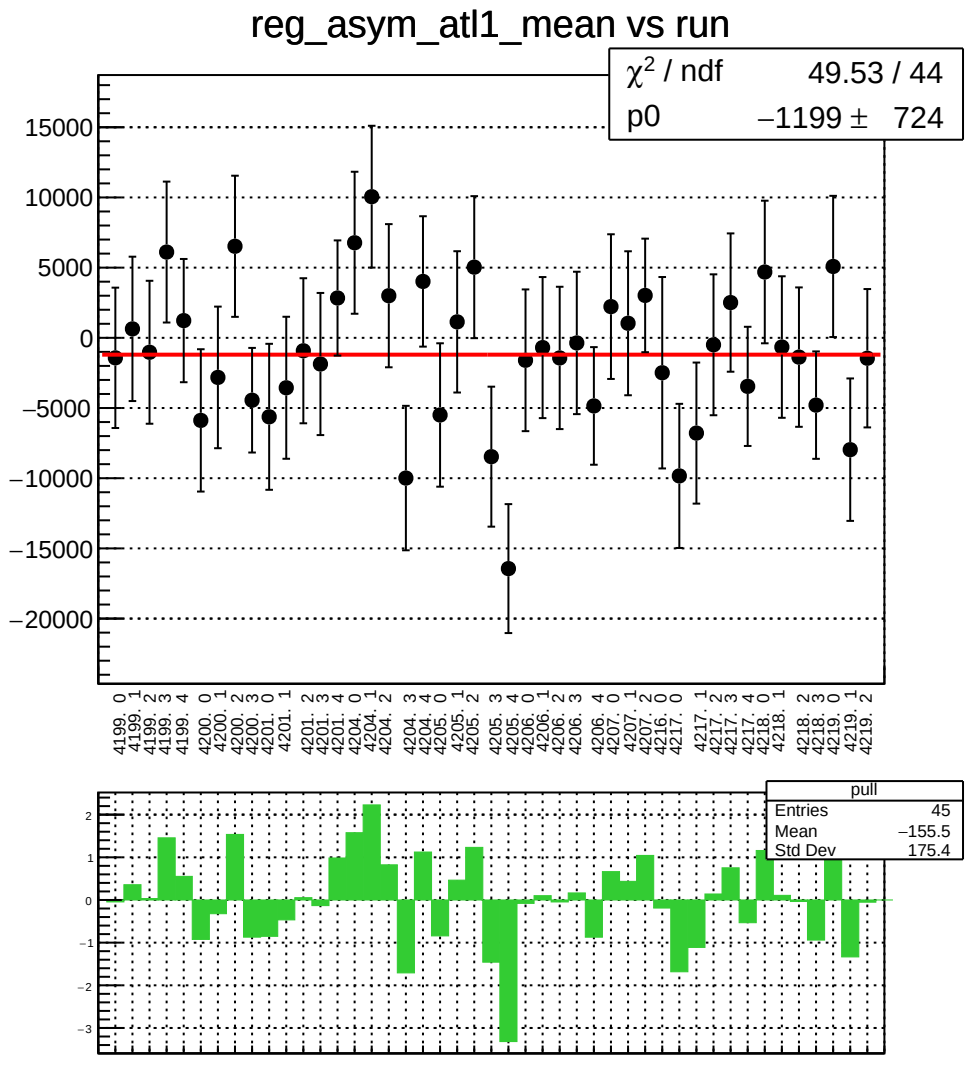

pull1D
Entries 45
Mean −0.007348
Std Dev 1.16
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

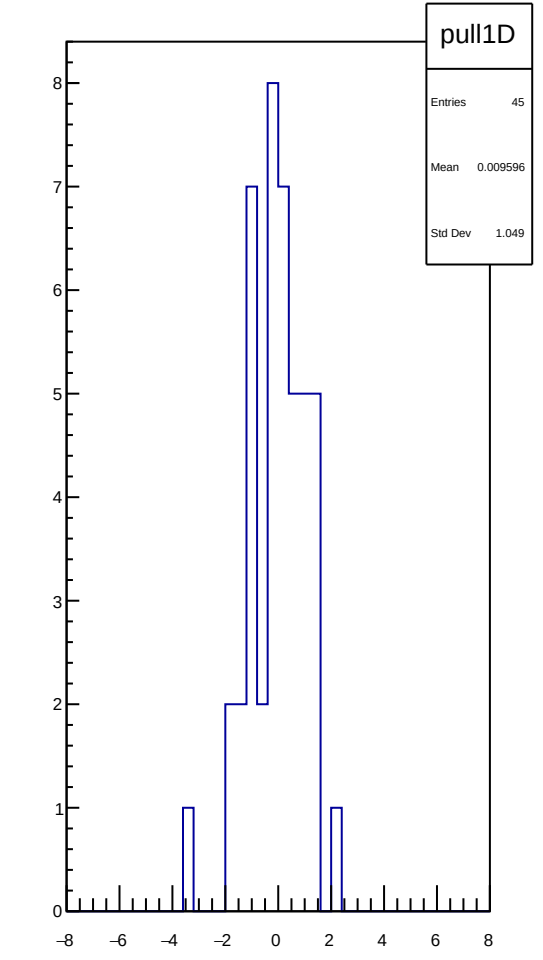

cor_dsl_rms vs run
χ² / ndf 863.2 / 44
p0 560.3 ± 0.5981
600
580
560
540
520
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

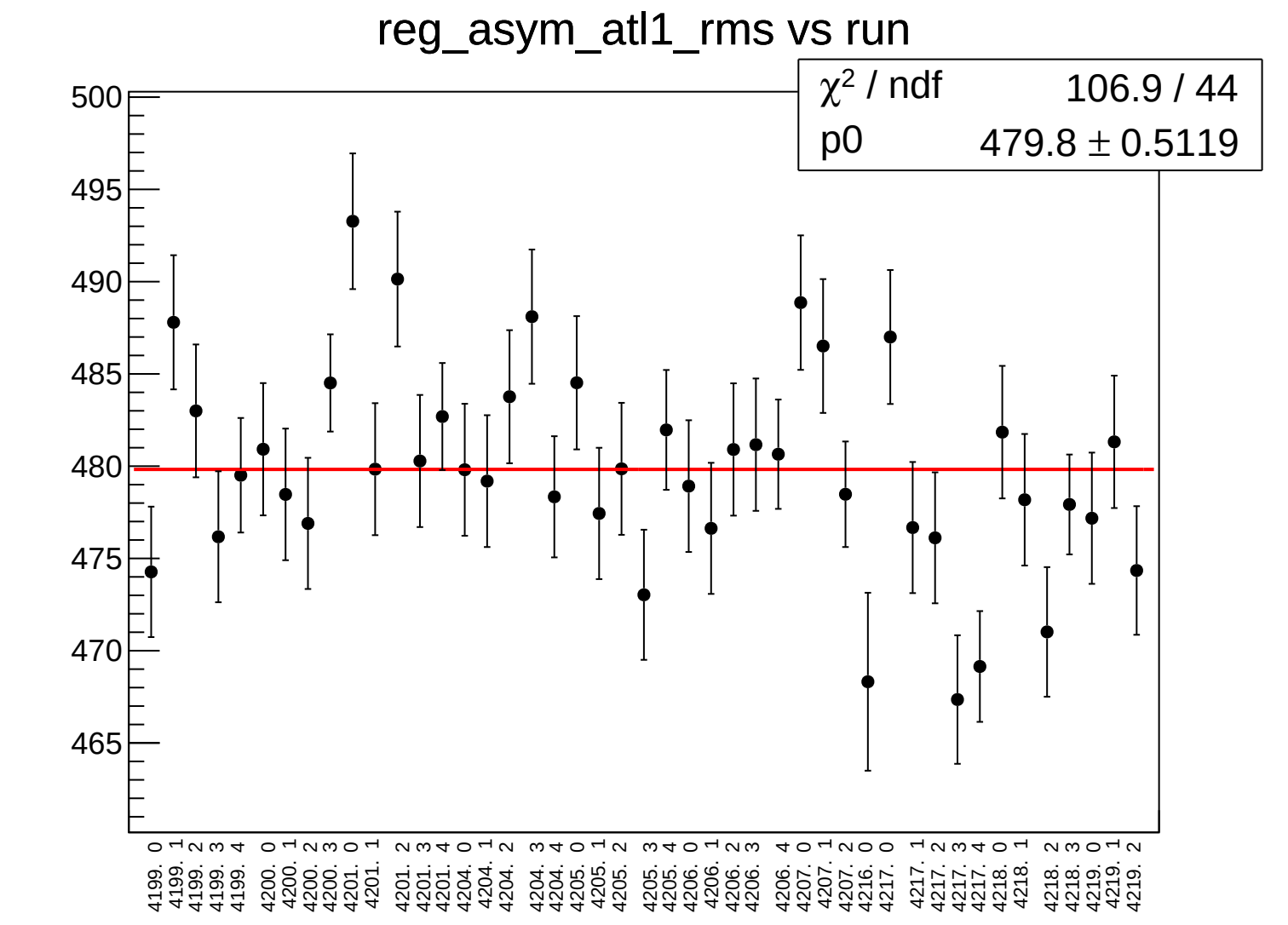

cor_dsr_mean vs run
χ² / ndf 47.09 / 44
p0 −59.47 ± 643.8
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 278.3
Std Dev 247.8
3
2
1
0
−1

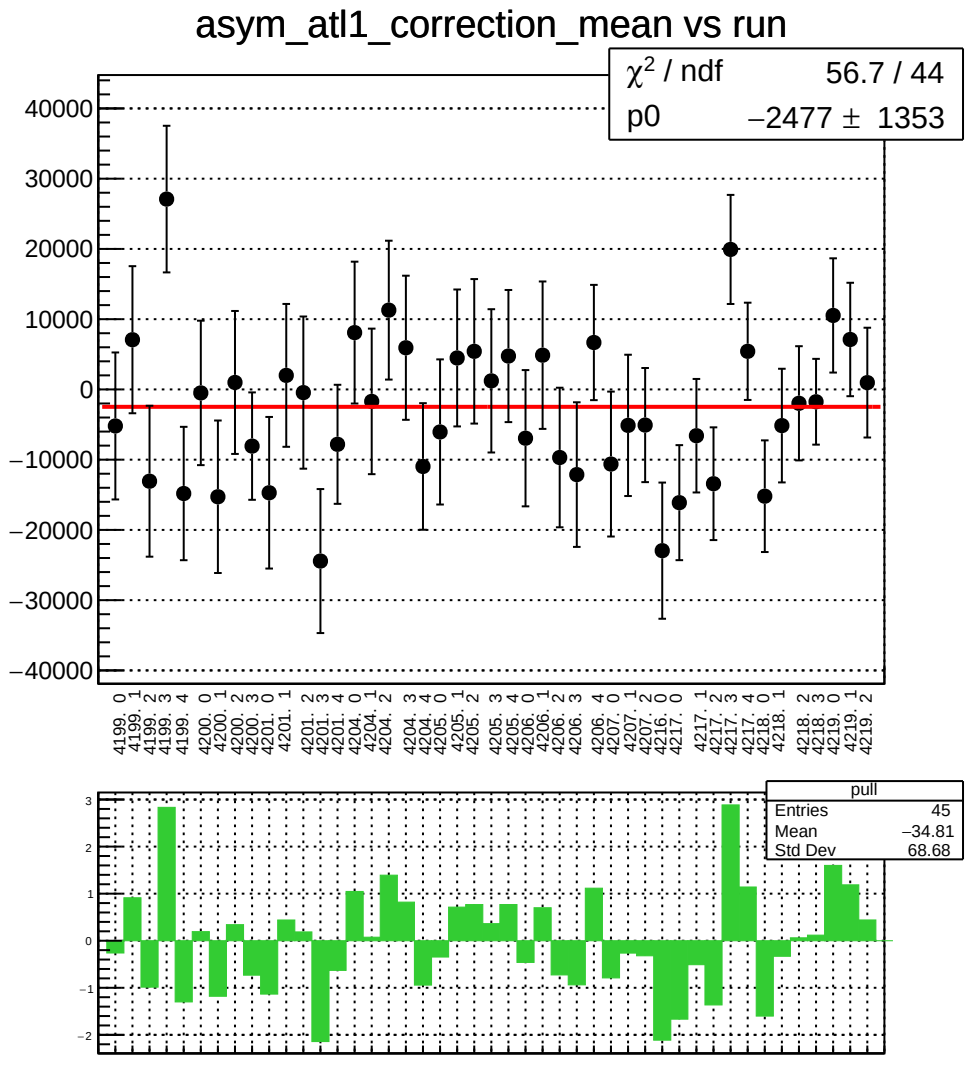

pull1D
Entries 45
Mean −0.008169
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

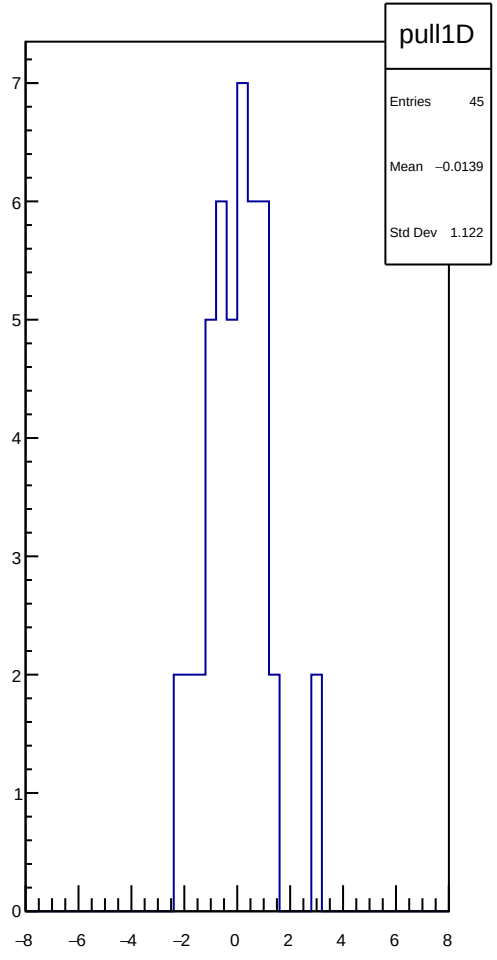

cor_dsr_rms vs run
χ² / ndf 8921 / 44
p0 424.5 ± 0.4552
540
520
500
480
460
440
420
400
380
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

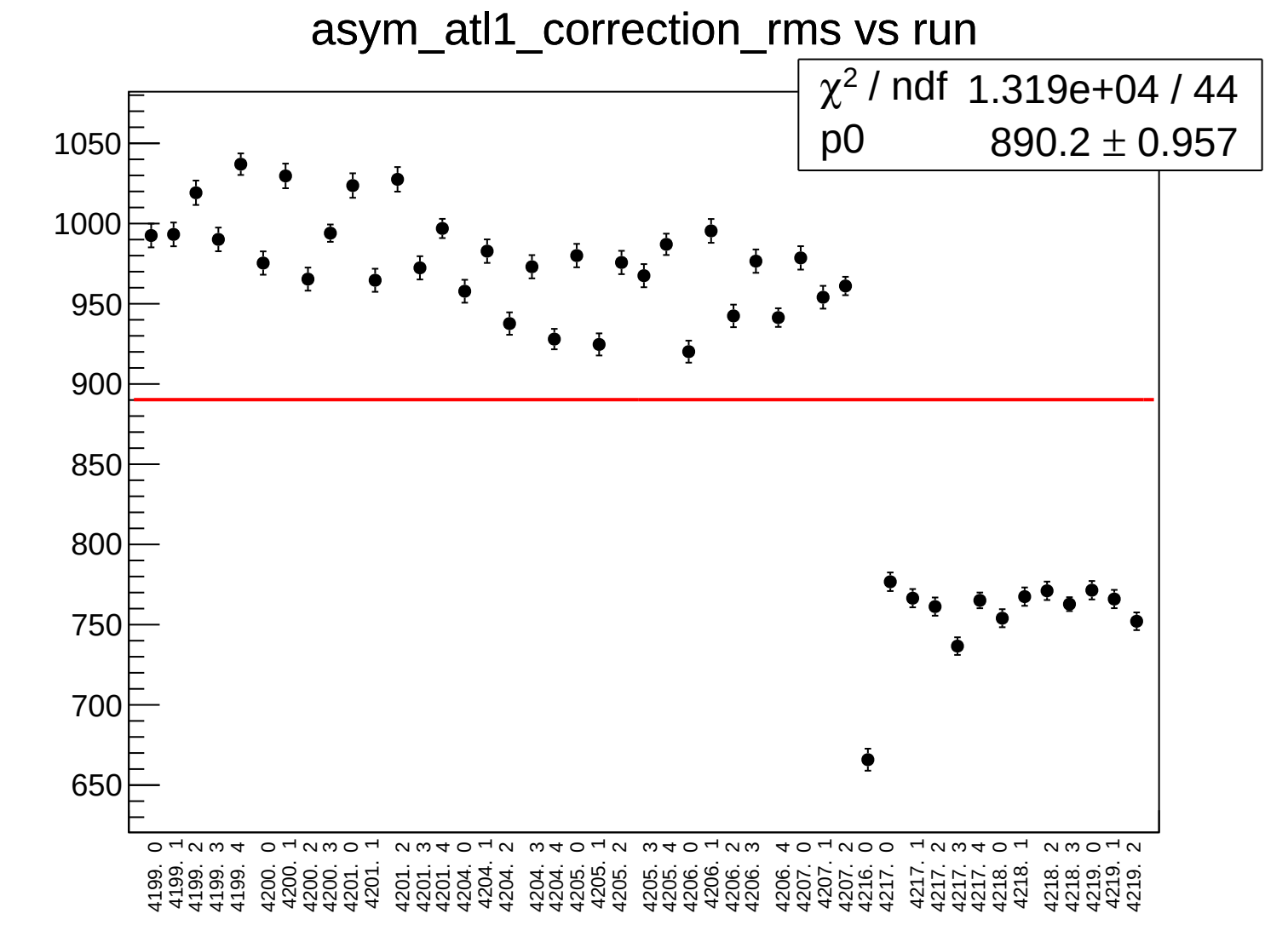

reg_asym_atl1_mean vs run
χ² / ndf 49.53 / 44
p0 −1199 ± 724
15000
10000
5000
0
−5000
−10000
−15000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −155.5
Std Dev 175.4
2
1
0
−1
−2
−3

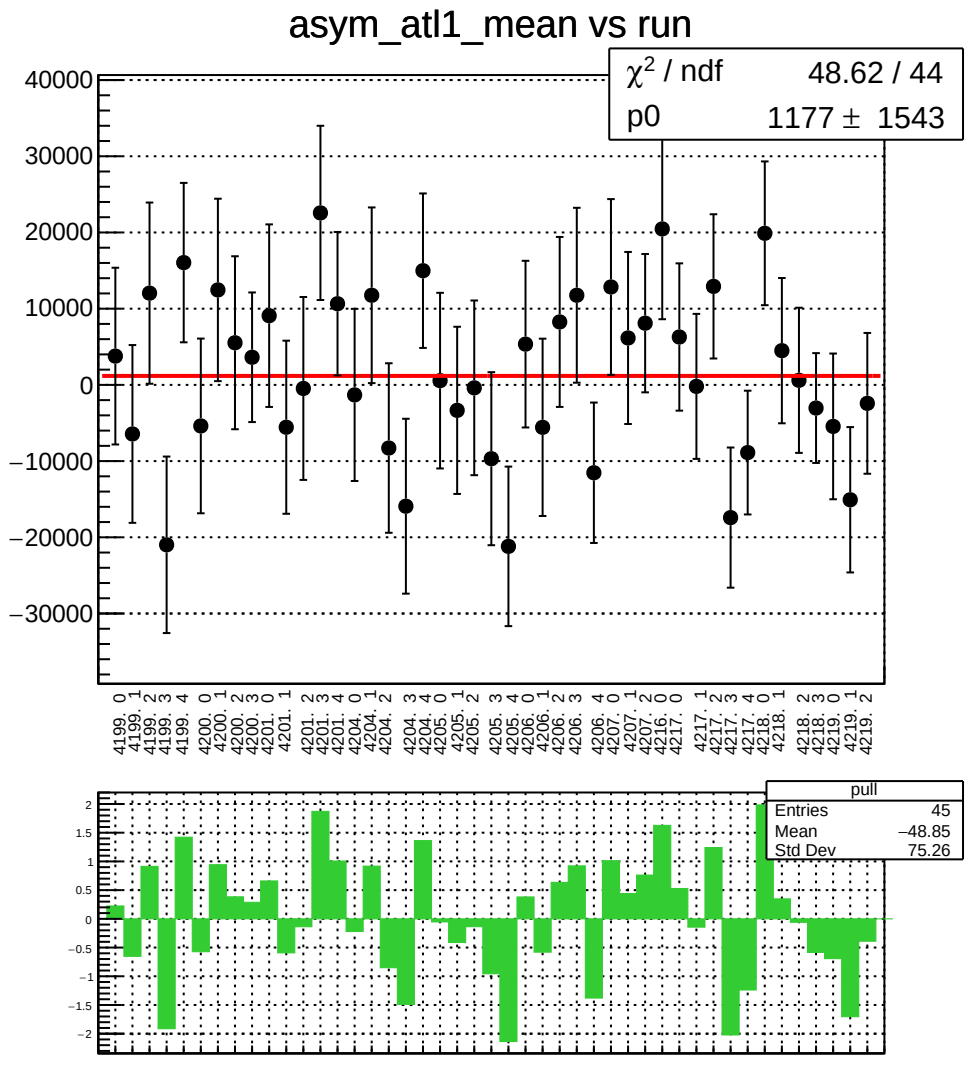

pull1D
Entries 45
Mean 0.009596
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

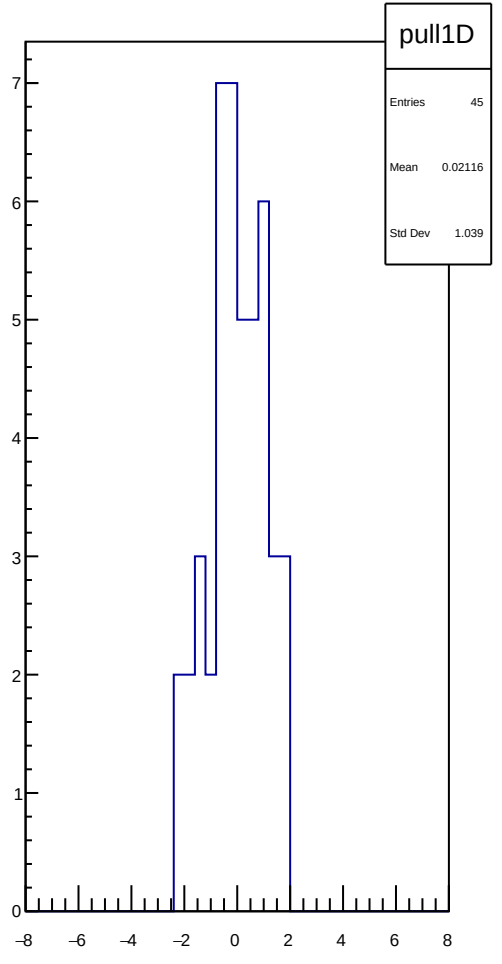

reg_asym_atl1_rms vs run
χ² / ndf 106.9 / 44
p0 479.8 ± 0.5119
500
495
490
485
480
475
470
465
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

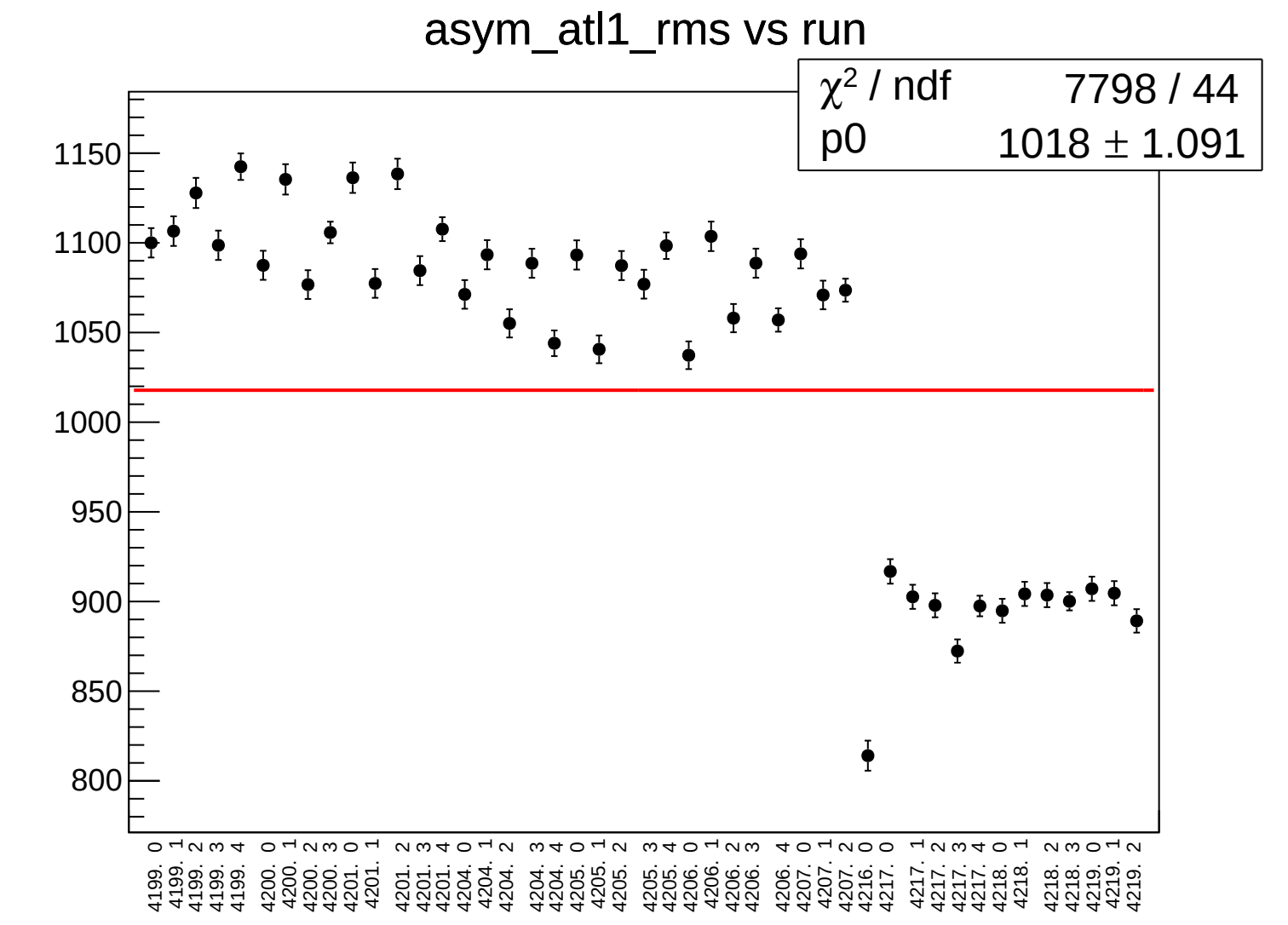

asym_atl1_correction_mean vs run
χ² / ndf 56.7 / 44
p0 −2477 ± 1353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −34.81
Std Dev 68.68
3
2
1
0
−1
−2

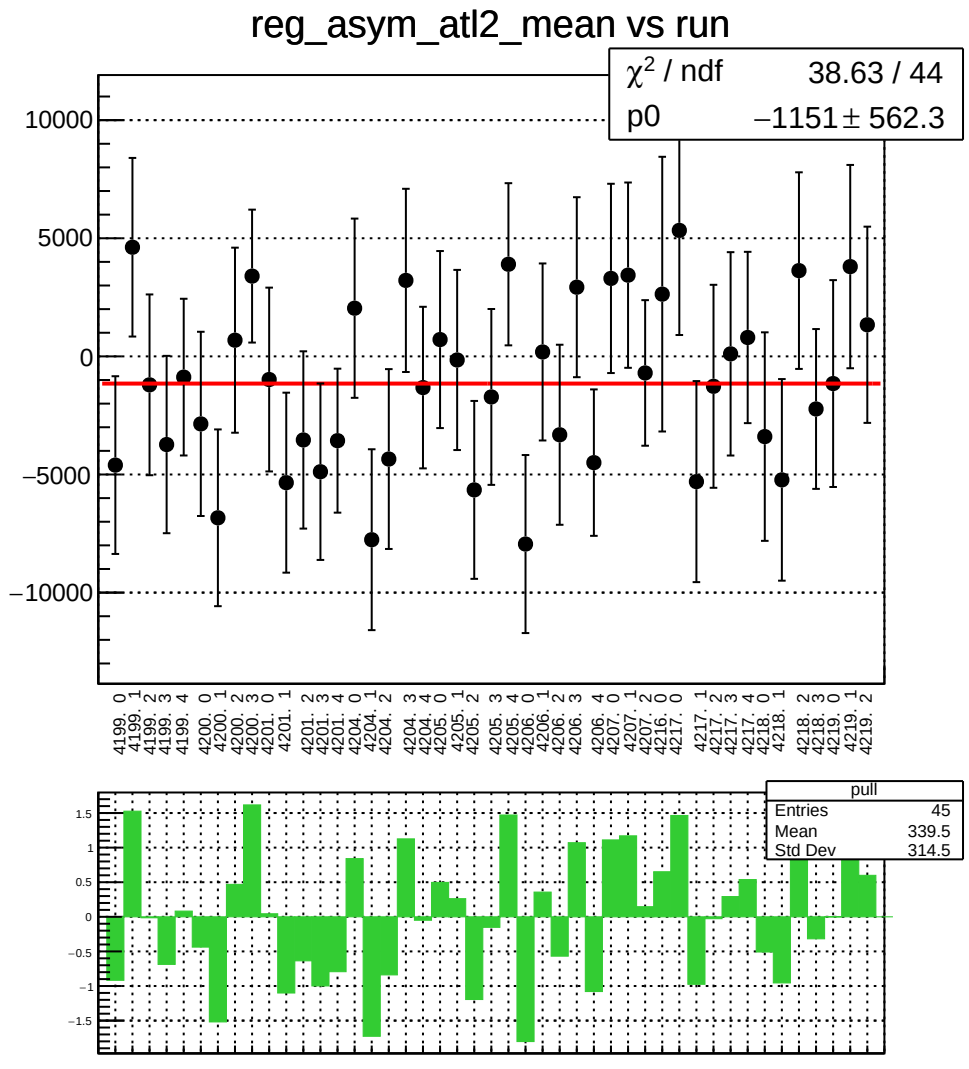

pull1D
Entries 45
Mean −0.0139
Std Dev 1.122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

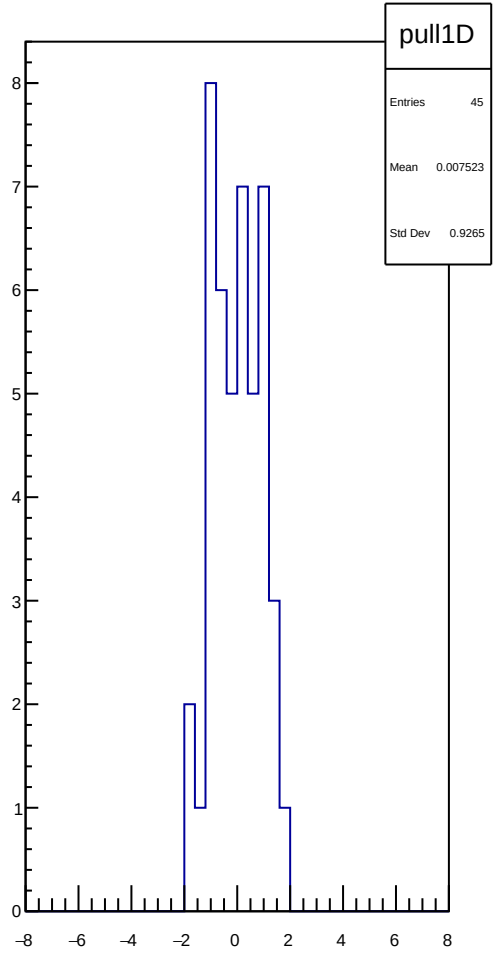

asym_atl1_correction_rms vs run
χ² / ndf 1.319e+04 / 44
p0 890.2 ± 0.957
1050
1000
950
900
850
800
750
700
650
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

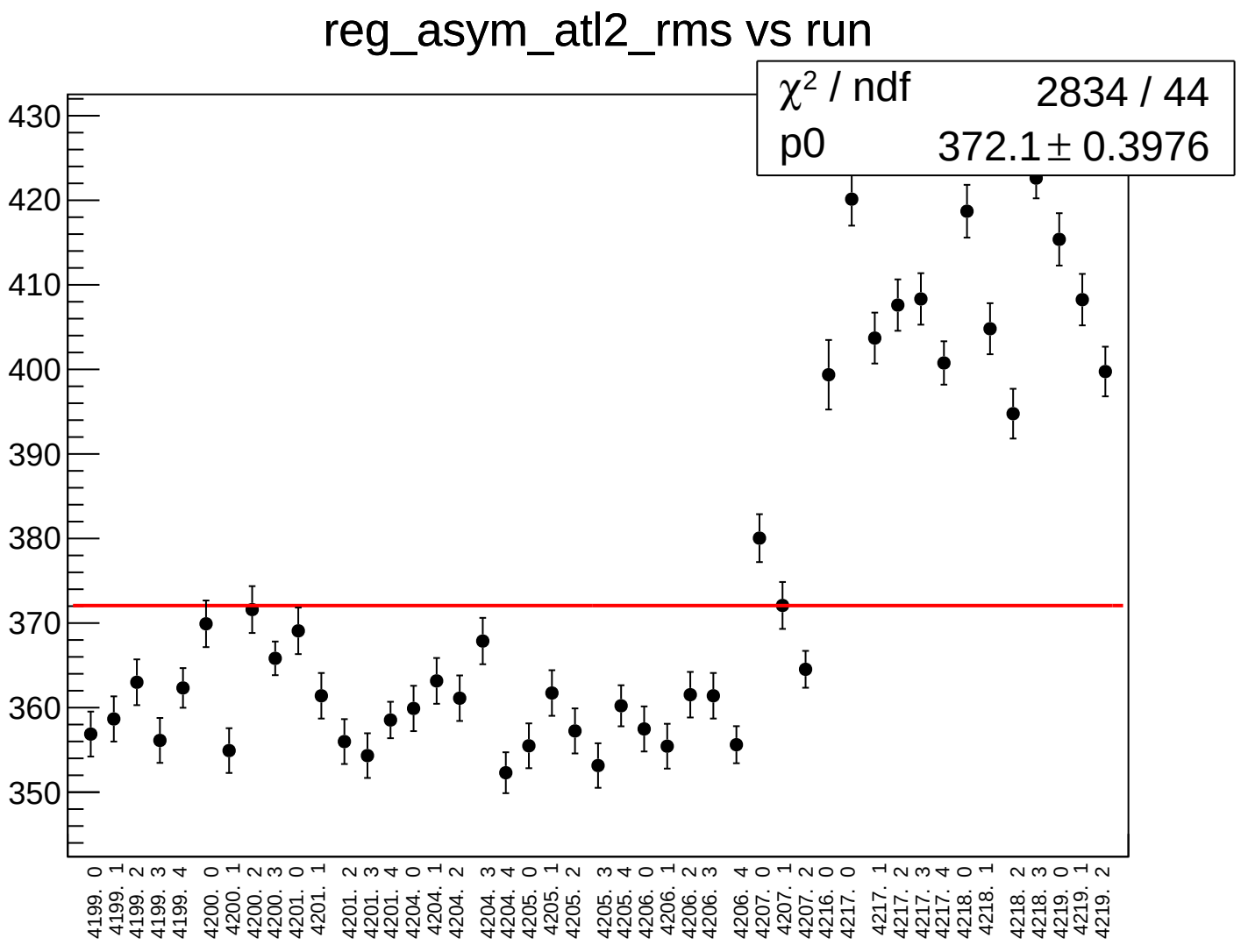

asym_atl1_mean vs run
χ² / ndf 48.62 / 44
p0 1177 ± 1543
pull
Entries 45
Mean −48.85
Std Dev 75.26

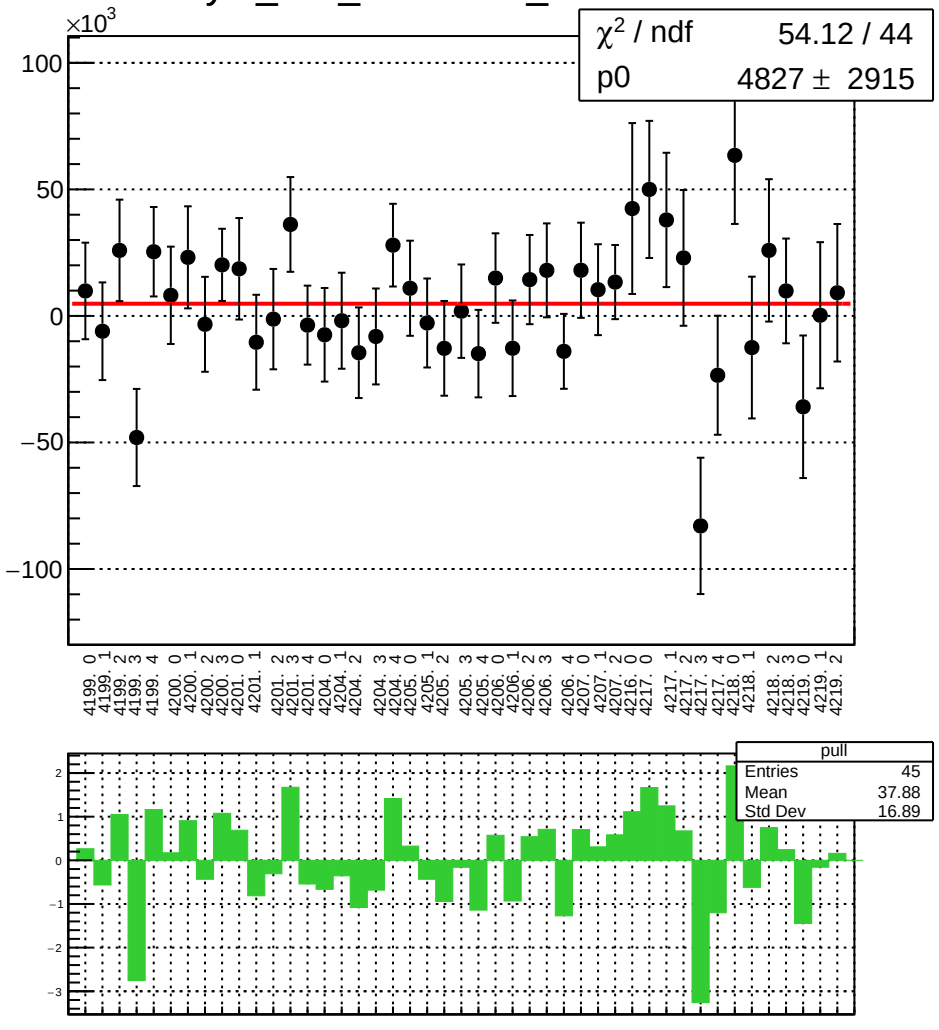

pull1D
Entries 45
Mean 0.02116
Std Dev 1.039

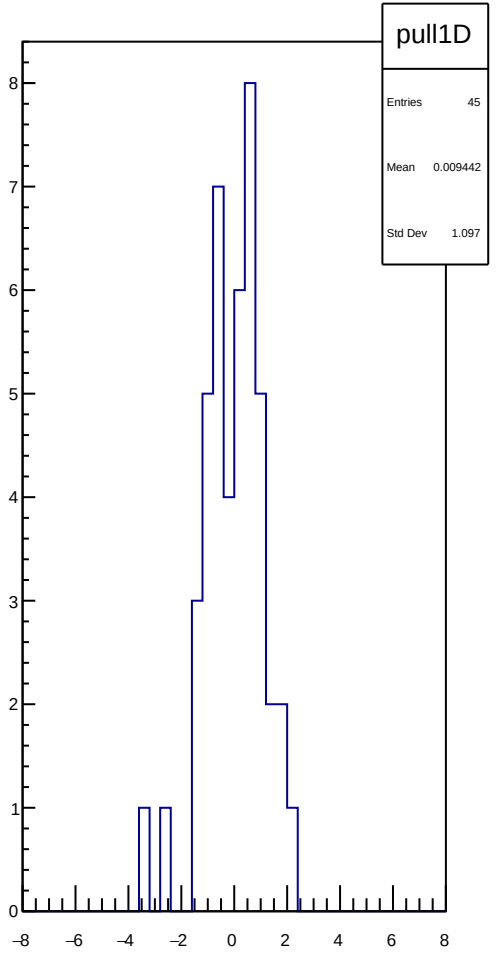

asym_atl1_rms vs run
χ² / ndf 7798 / 44
p0 1018 ± 1.091
1150
1100
1050
1000
950
900
850
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

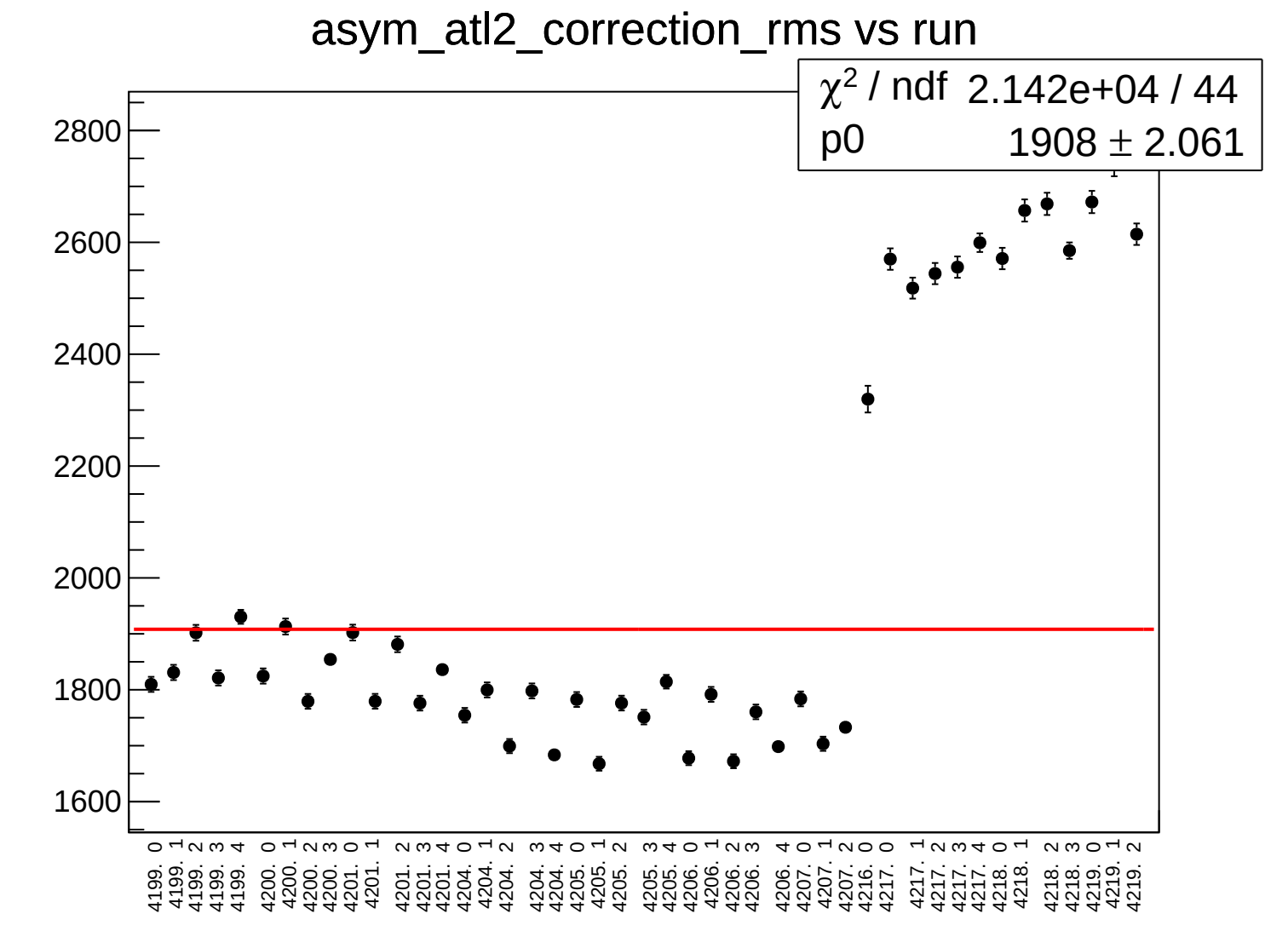

reg_asym_atl2_mean vs run
χ² / ndf 38.63 / 44
p0 −1151 ± 562.3
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 339.5
Std Dev 314.5
1.5
1
0.5
0
−0.5
−1
−1.5

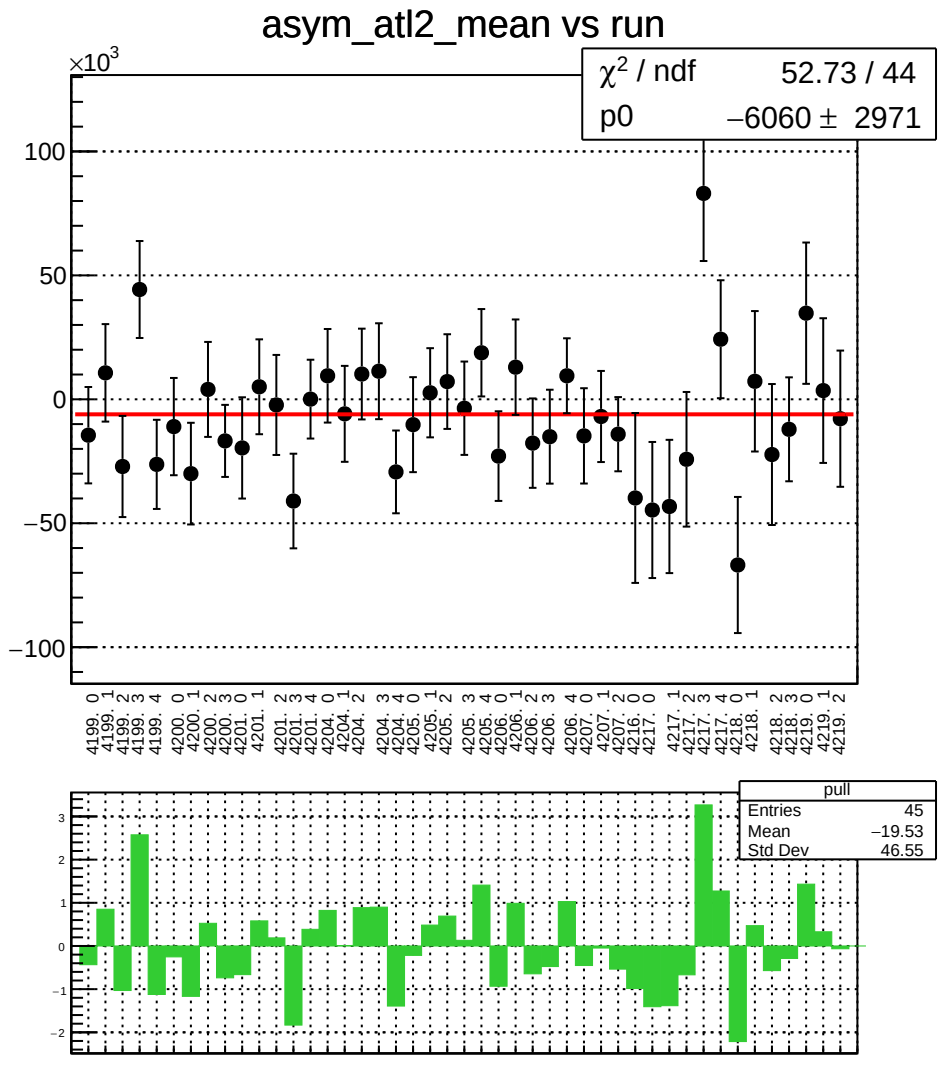

pull1D
Entries 45
Mean 0.007523
Std Dev 0.9265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

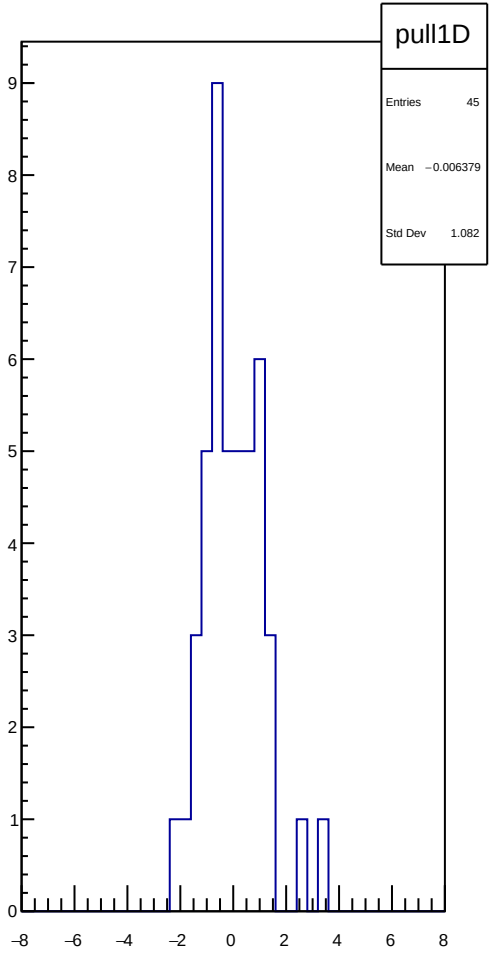

reg_asym_atl2_rms vs run
χ² / ndf 2834 / 44
p0 372.1 ± 0.3976
430
420
410
400
390
380
370
360
350
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

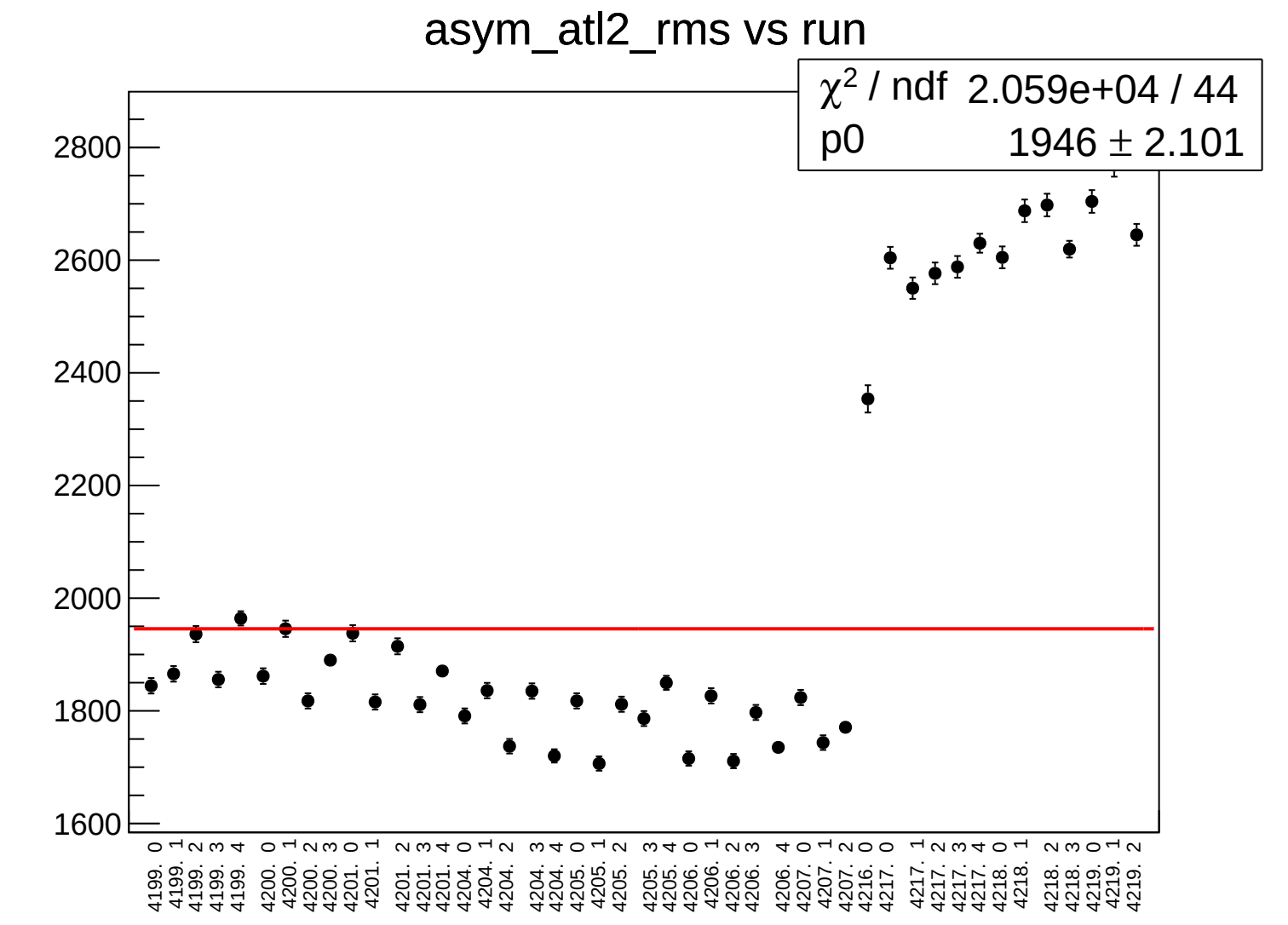

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 54.12 / 44
p0 4827 ± 2915
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 37.88
Std Dev 16.89
2
1
0
−1
−2
−3

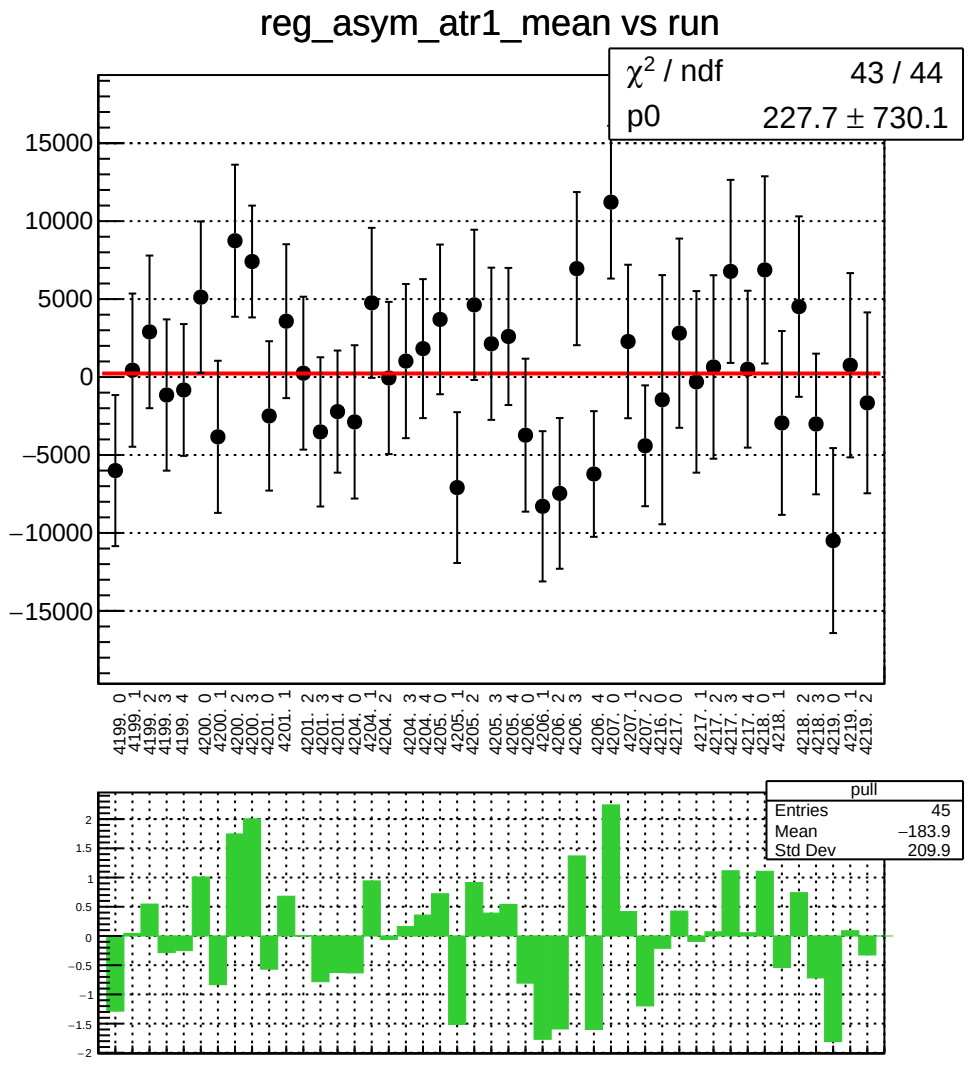

pull1D
Entries 45
Mean 0.009442
Std Dev 1.097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

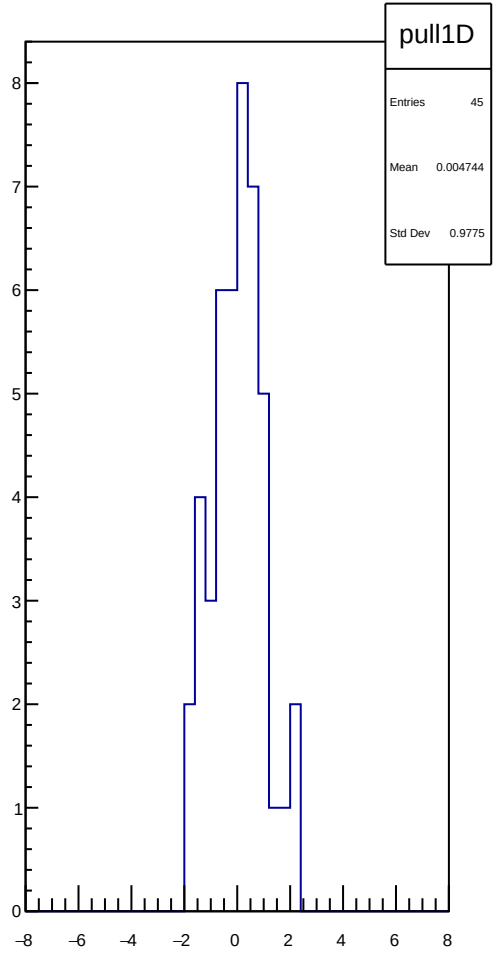

asym_atl2_correction_rms vs run
χ² / ndf 2.142e+04 / 44
p0 1908 ± 2.061
2800
2600
2400
2200
2000
1800
1600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

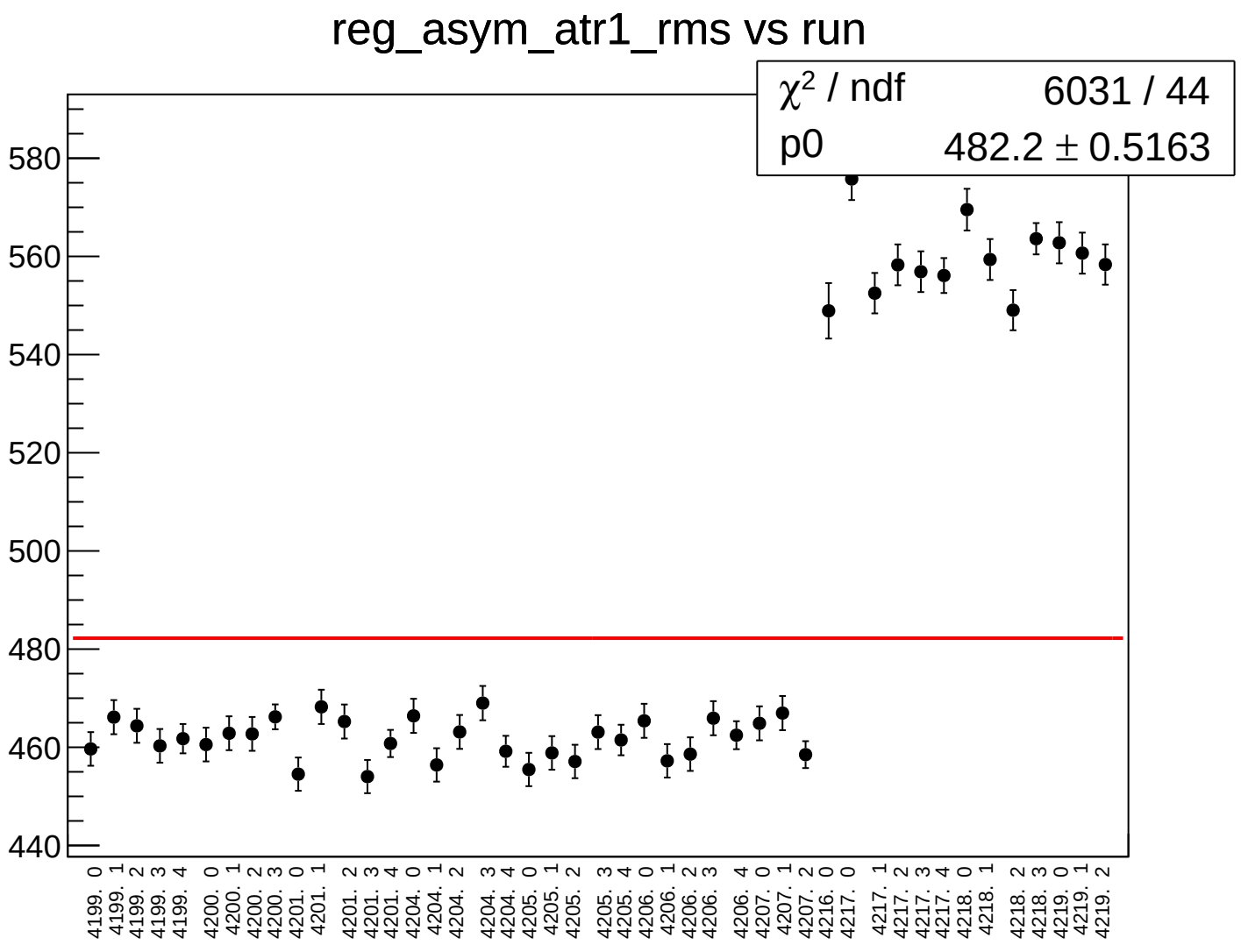

asym_atl2_mean vs run
×10^3
χ² / ndf 52.73 / 44
p0 −6060 ± 2971
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −19.53
Std Dev 46.55
3
2
1
0
−1
−2

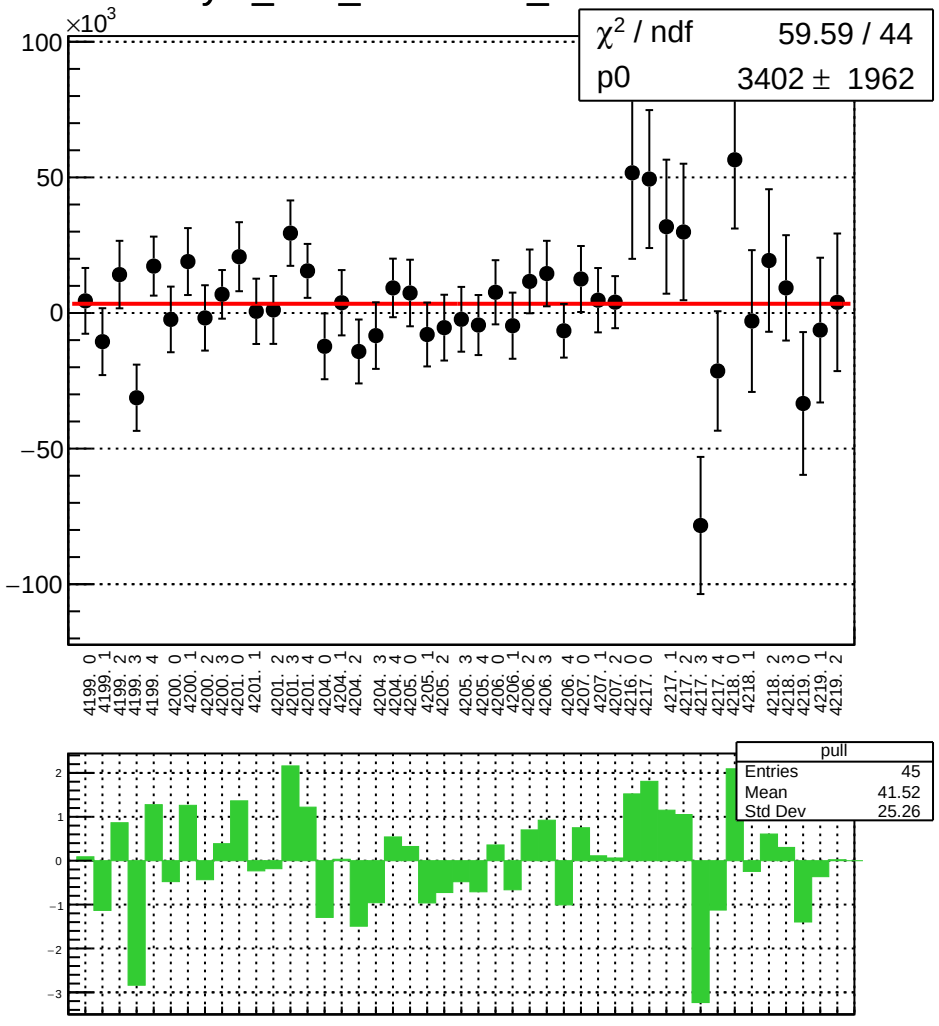

pull1D
Entries 45
Mean −0.006379
Std Dev 1.082
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

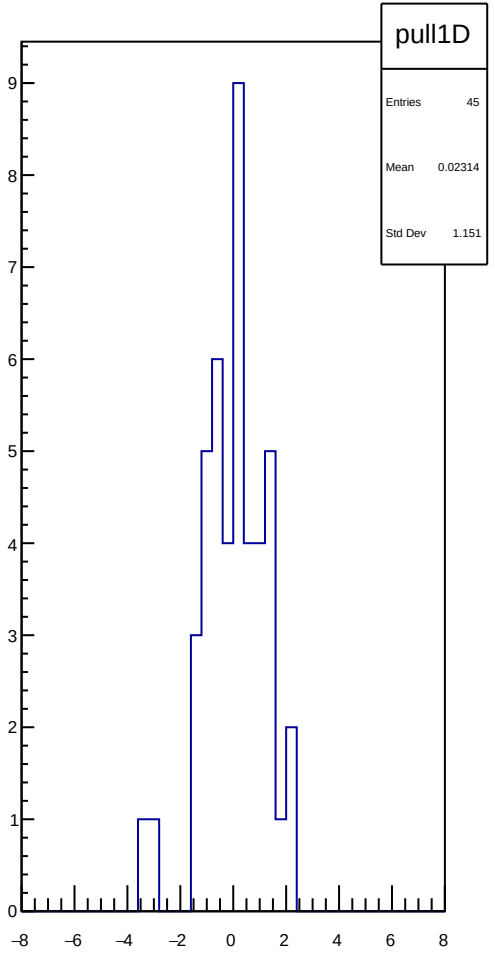

asym_atl2_rms vs run
χ² / ndf 2.059e+04 / 44
p0 1946 ± 2.101
2800
2600
2400
2200
2000
1800
1600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

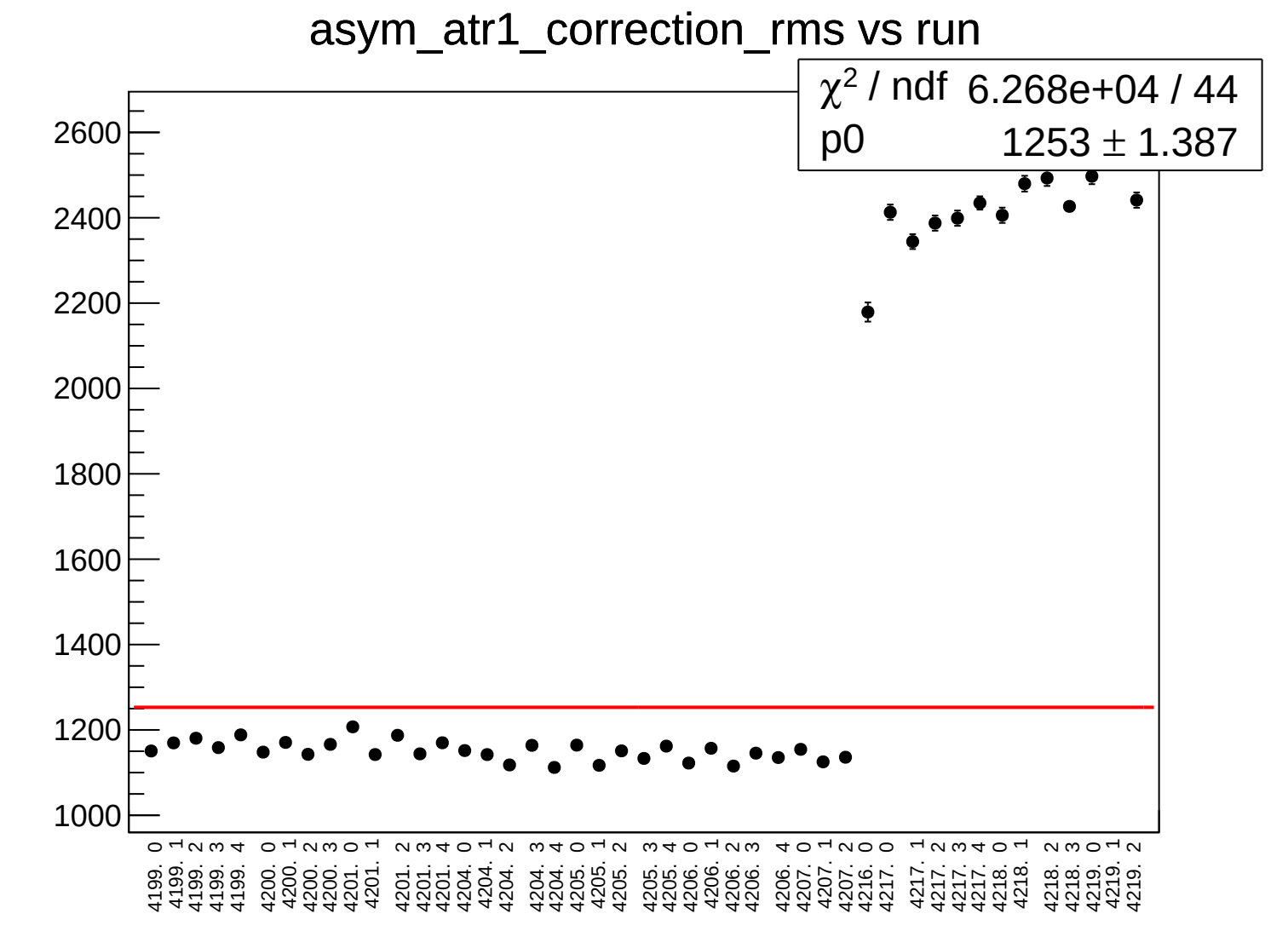

reg_asym_atr1_mean vs run
χ² / ndf 43 / 44
p0 227.7 ± 730.1
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −183.9
Std Dev 209.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

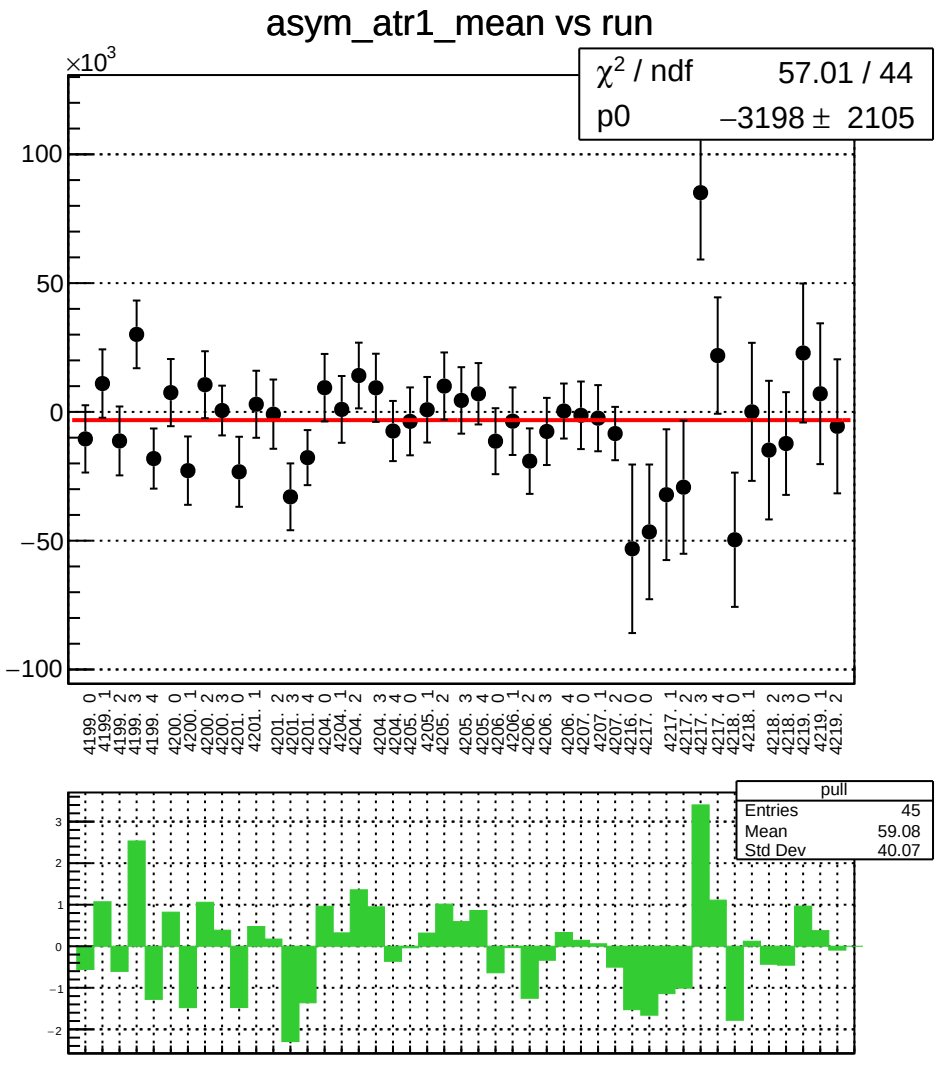

pull1D
Entries 45
Mean 0.004744
Std Dev 0.9775
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

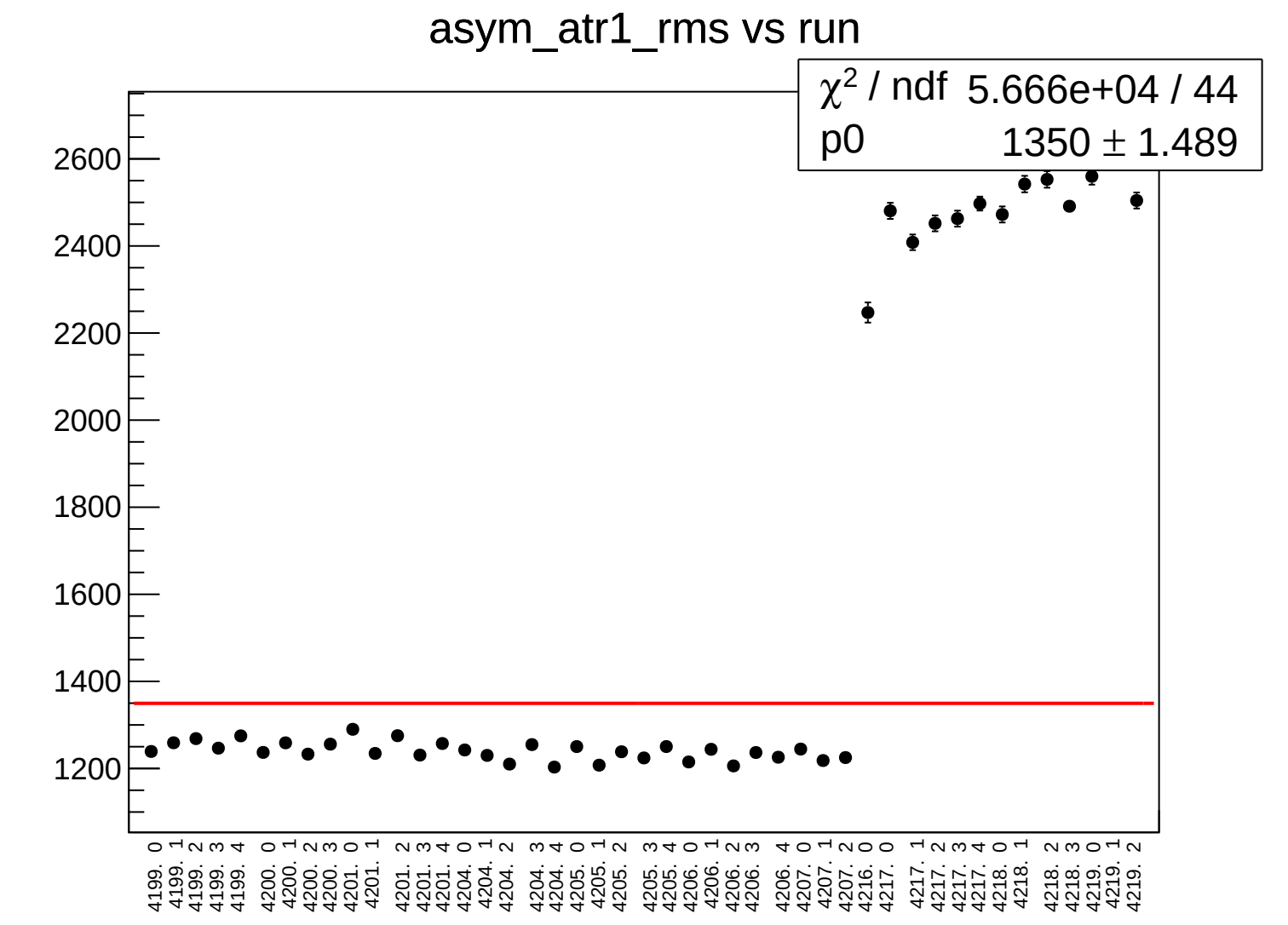

reg_asym_atr1_rms vs run
χ² / ndf 6031 / 44
p0 482.2 ± 0.5163
580
560
540
520
500
480
460
440
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

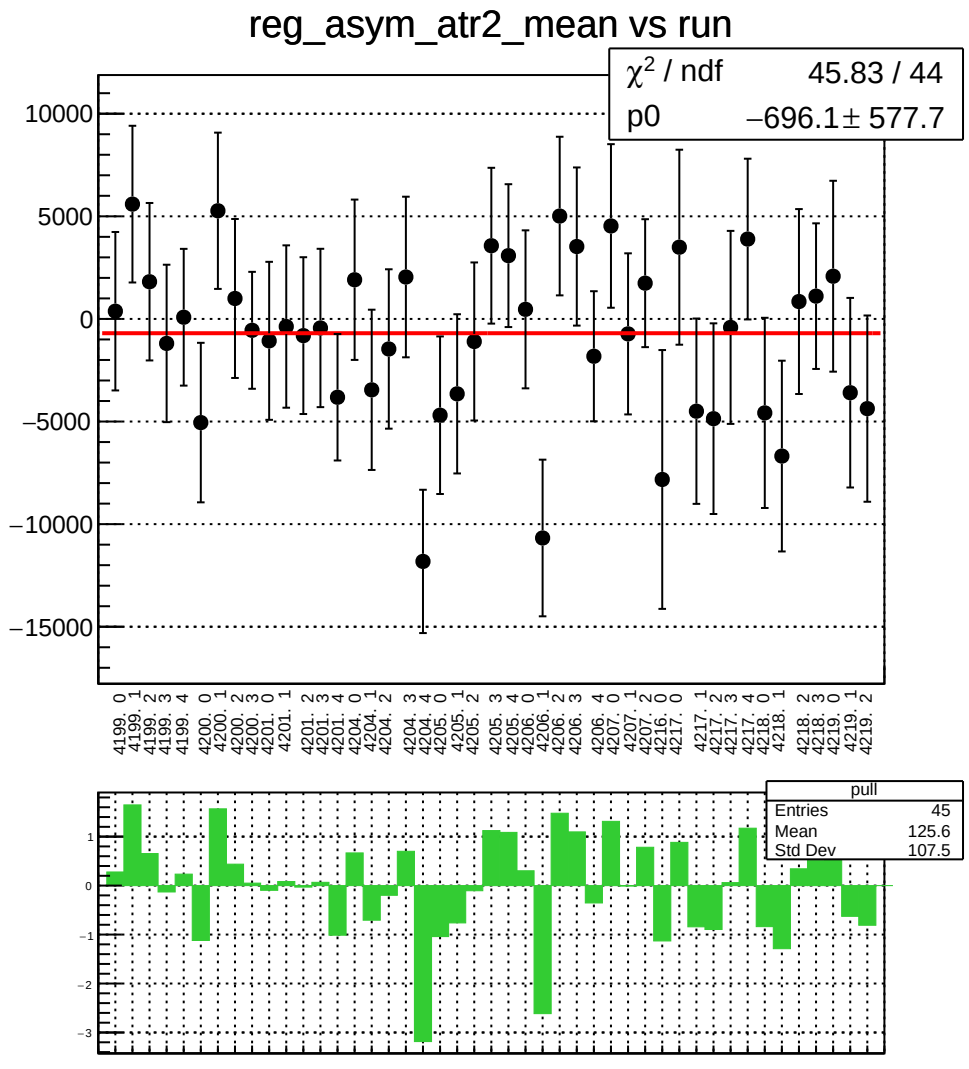

asym_atr1_correction_mean vs run
×10^3
χ² / ndf 59.59 / 44
p0 3402 ± 1962
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 41.52
Std Dev 25.26
2
1
0
−1
−2
−3

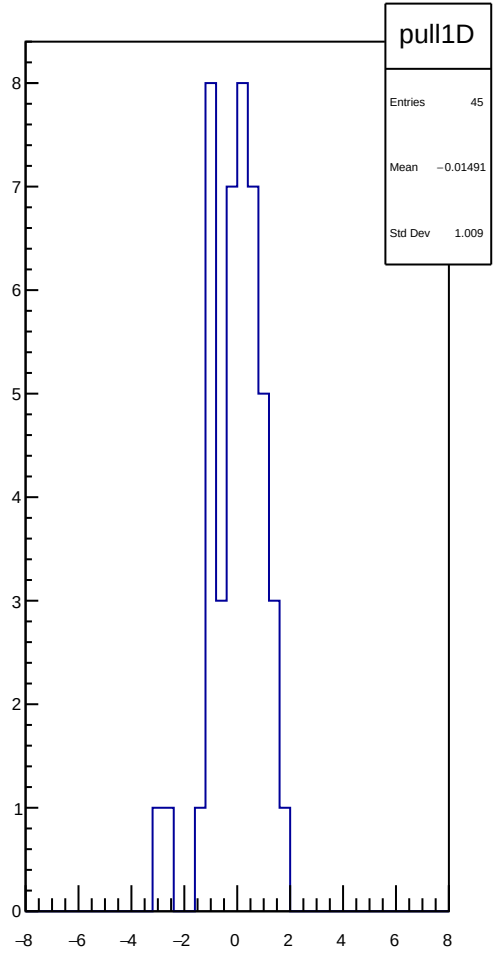

pull1D
Entries 45
Mean 0.02314
Std Dev 1.151
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

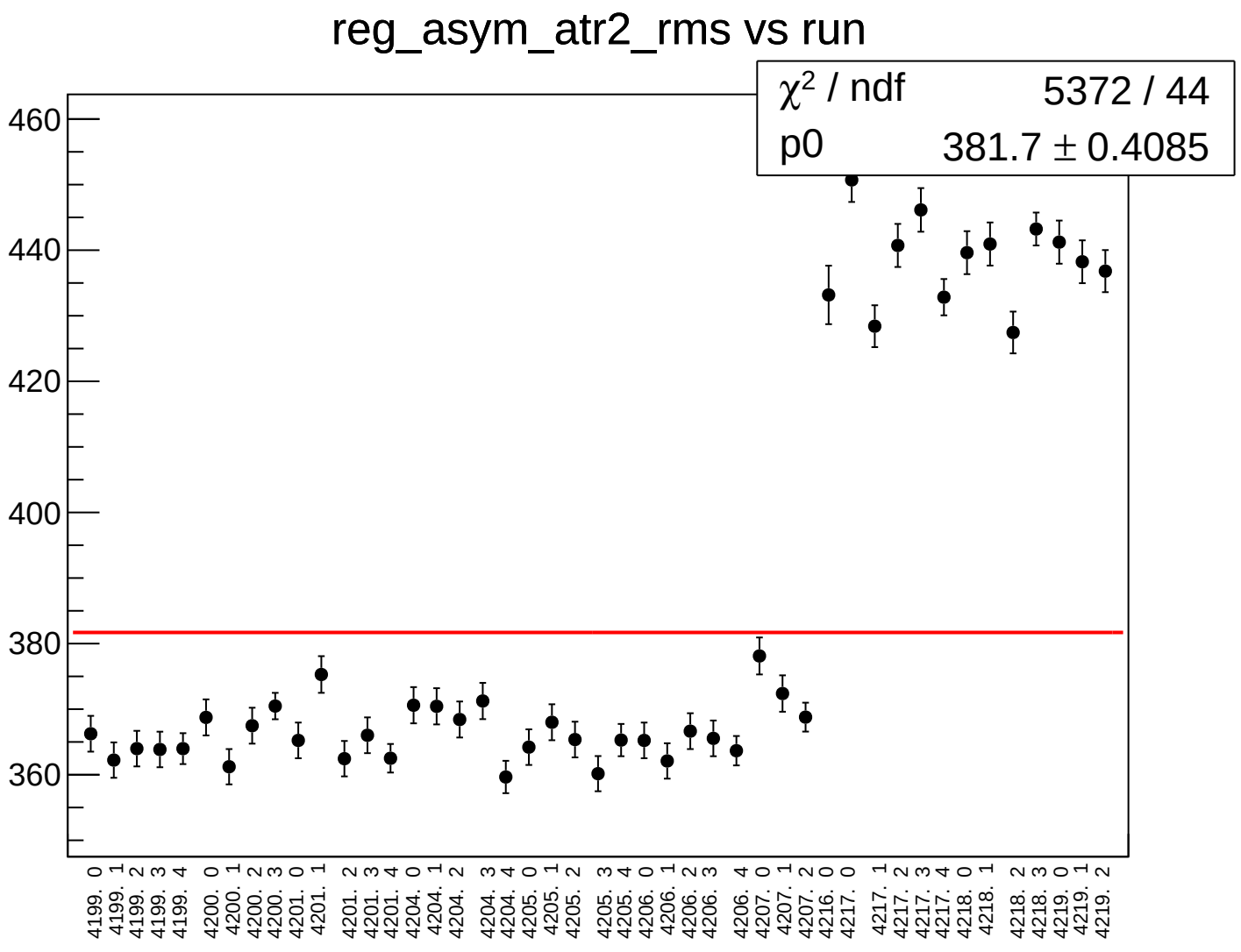

asym_atr1_correction_rms vs run
χ² / ndf 6.268e+04 / 44
p0 1253 ± 1.387
2600
2400
2200
2000
1800
1600
1400
1200
1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

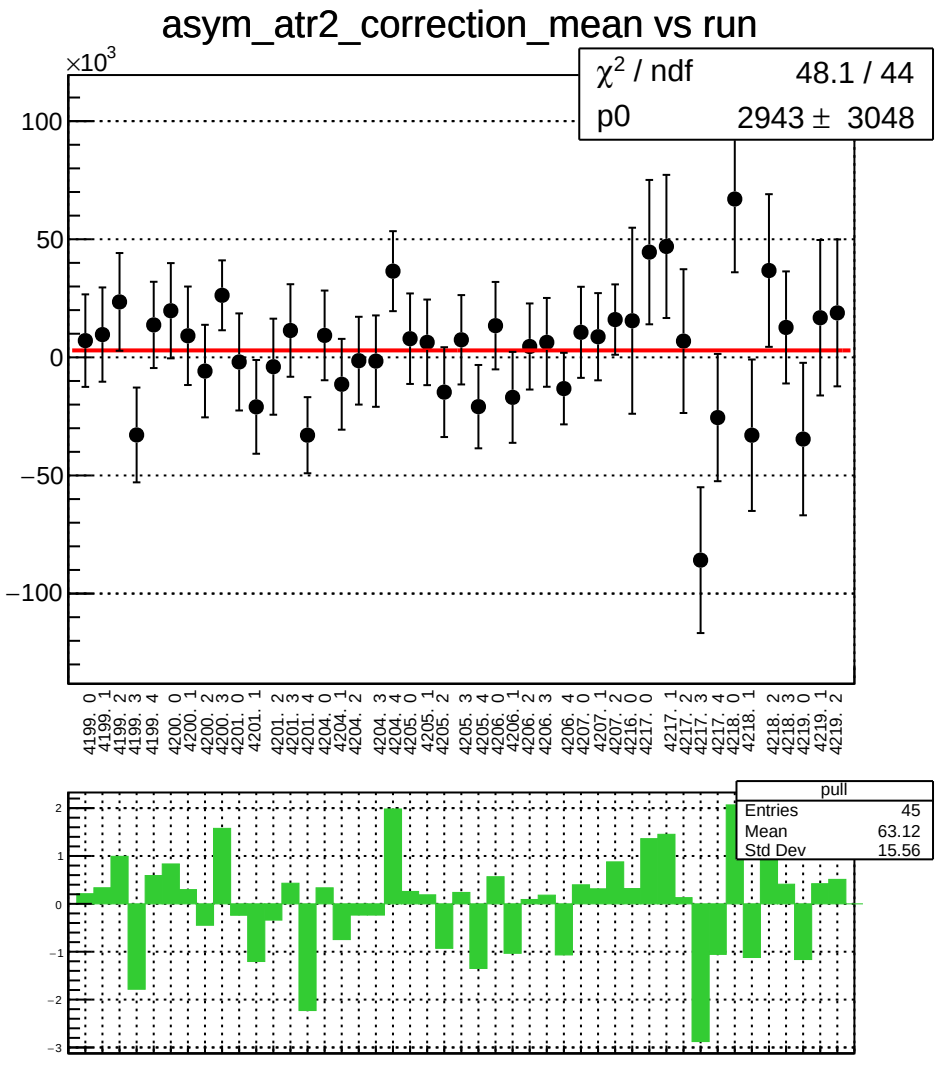

asym_atr1_mean vs run
×10^3
χ² / ndf 57.01 / 44
p0 −3198 ± 2105
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 59.08
Std Dev 40.07
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02007
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

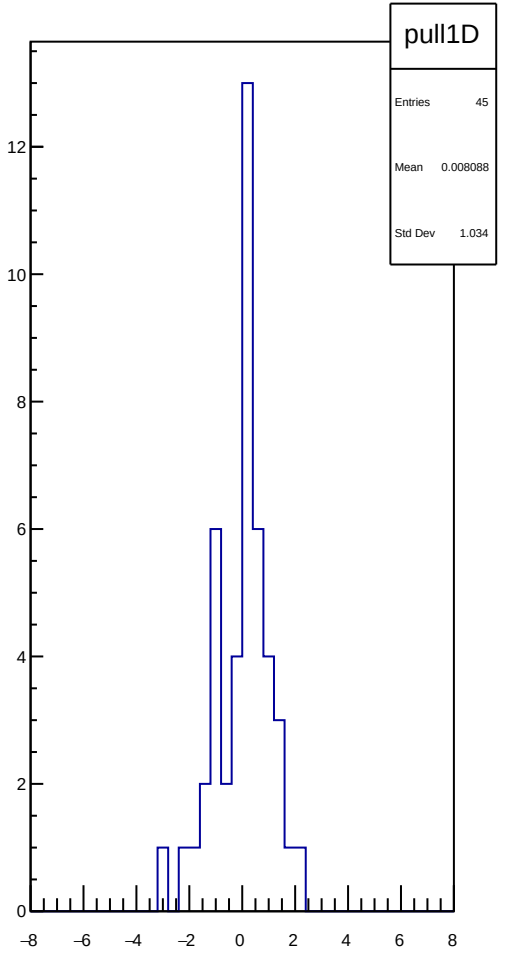

asym_atr1_rms vs run
χ² / ndf 5.666e+04 / 44
p0 1350 ± 1.489
2600
2400
2200
2000
1800
1600
1400
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

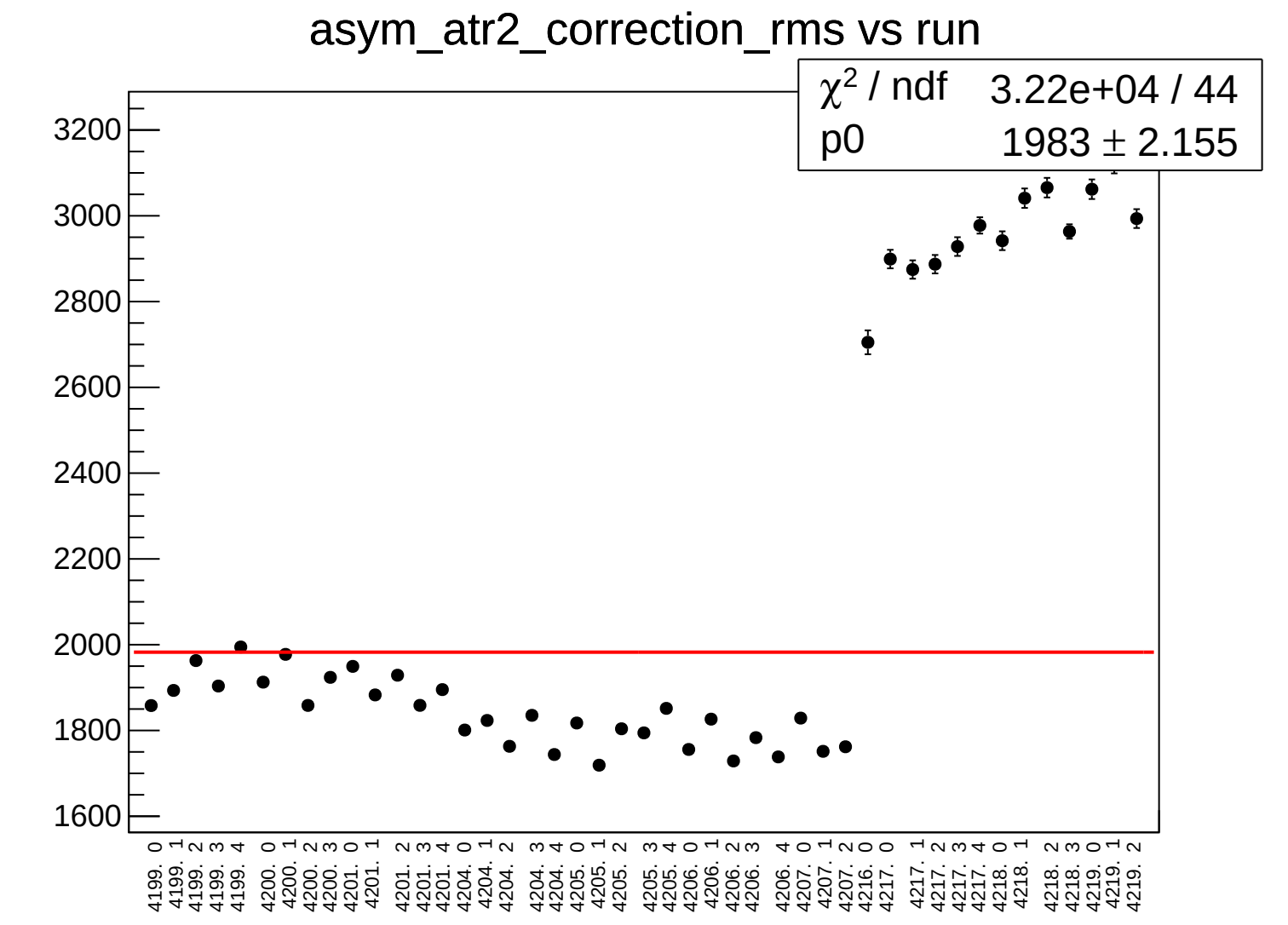

reg_asym_atr2_mean vs run
χ² / ndf 45.83 / 44
p0 −696.1 ± 577.7
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 125.6
Std Dev 107.5
1
0
−1
−2
−3

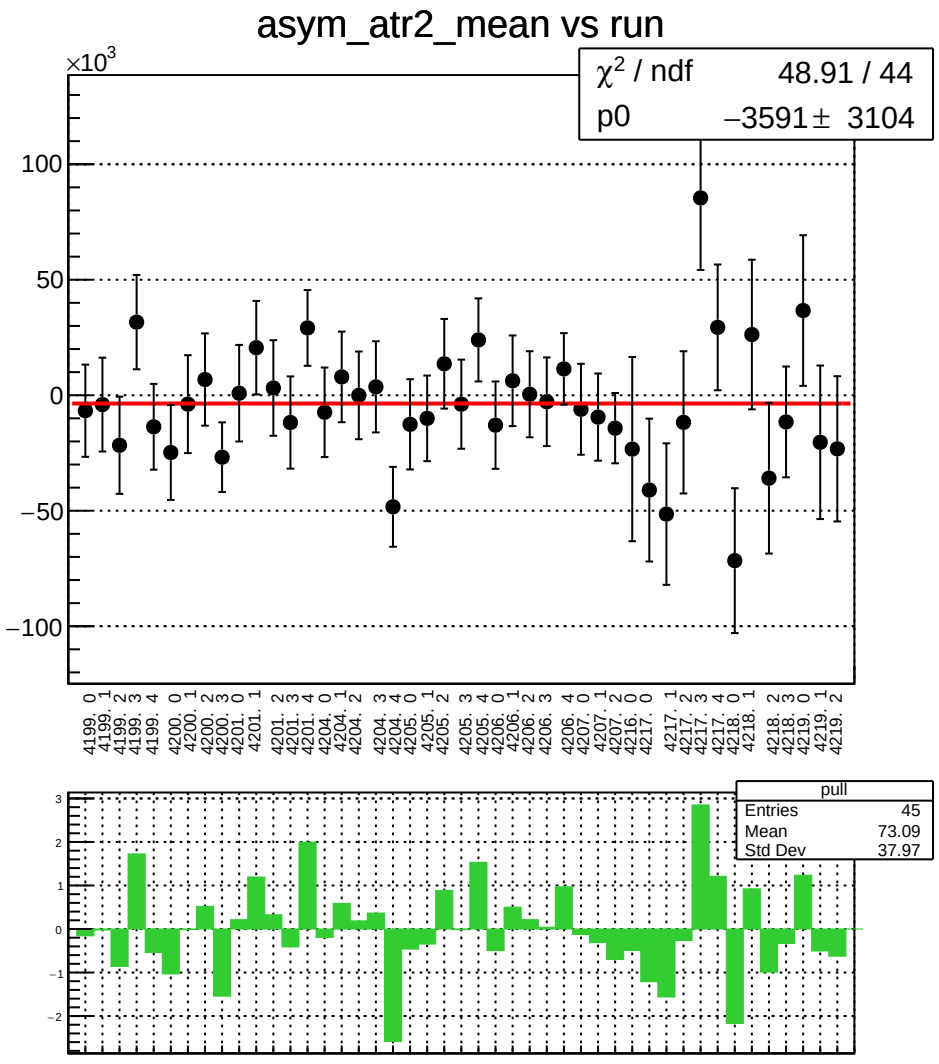

pull1D
Entries 45
Mean −0.01491
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

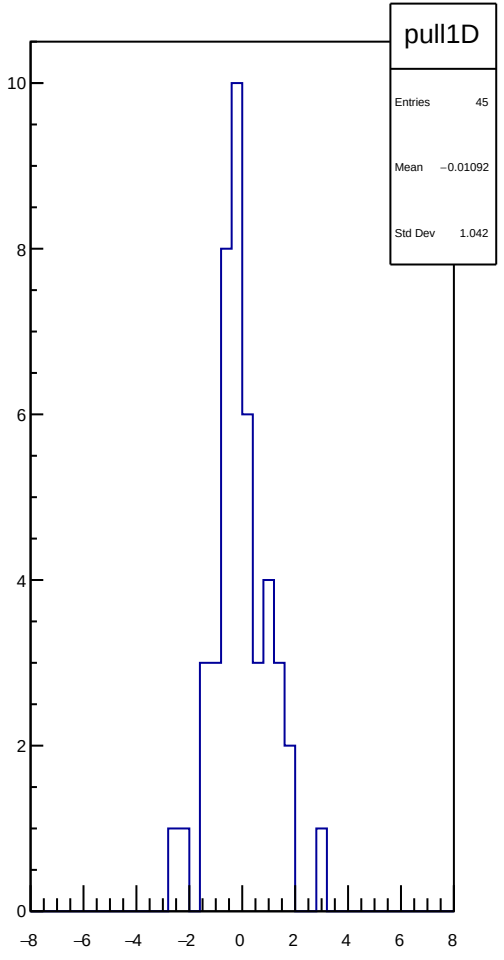

reg_asym_atr2_rms vs run
χ² / ndf 5372 / 44
p0 381.7 ± 0.4085
460
440
420
400
380
360
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

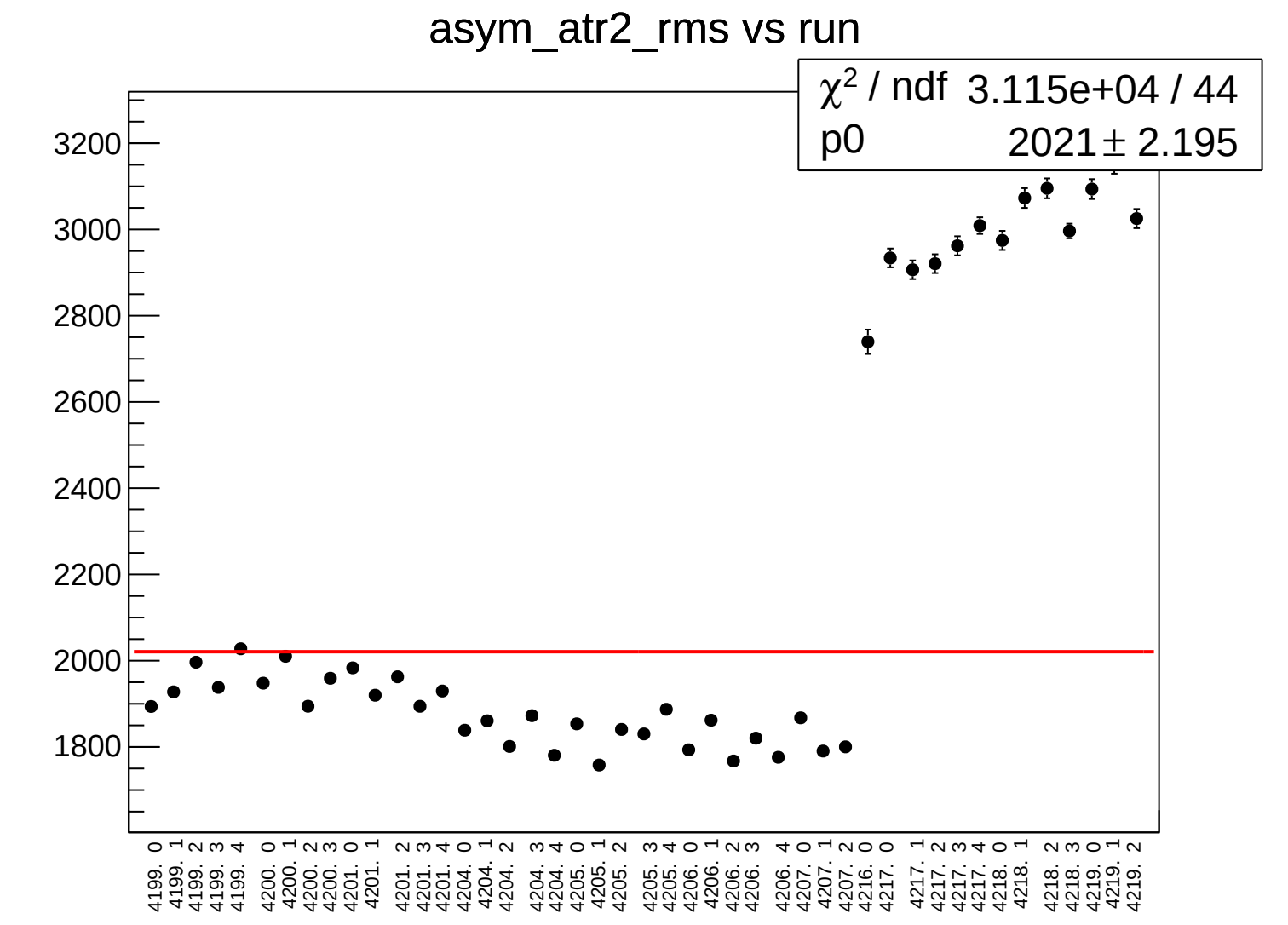

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 48.1 / 44
p0 2943 ± 3048
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 63.12
Std Dev 15.56
2
1
0
−1
−2
−3

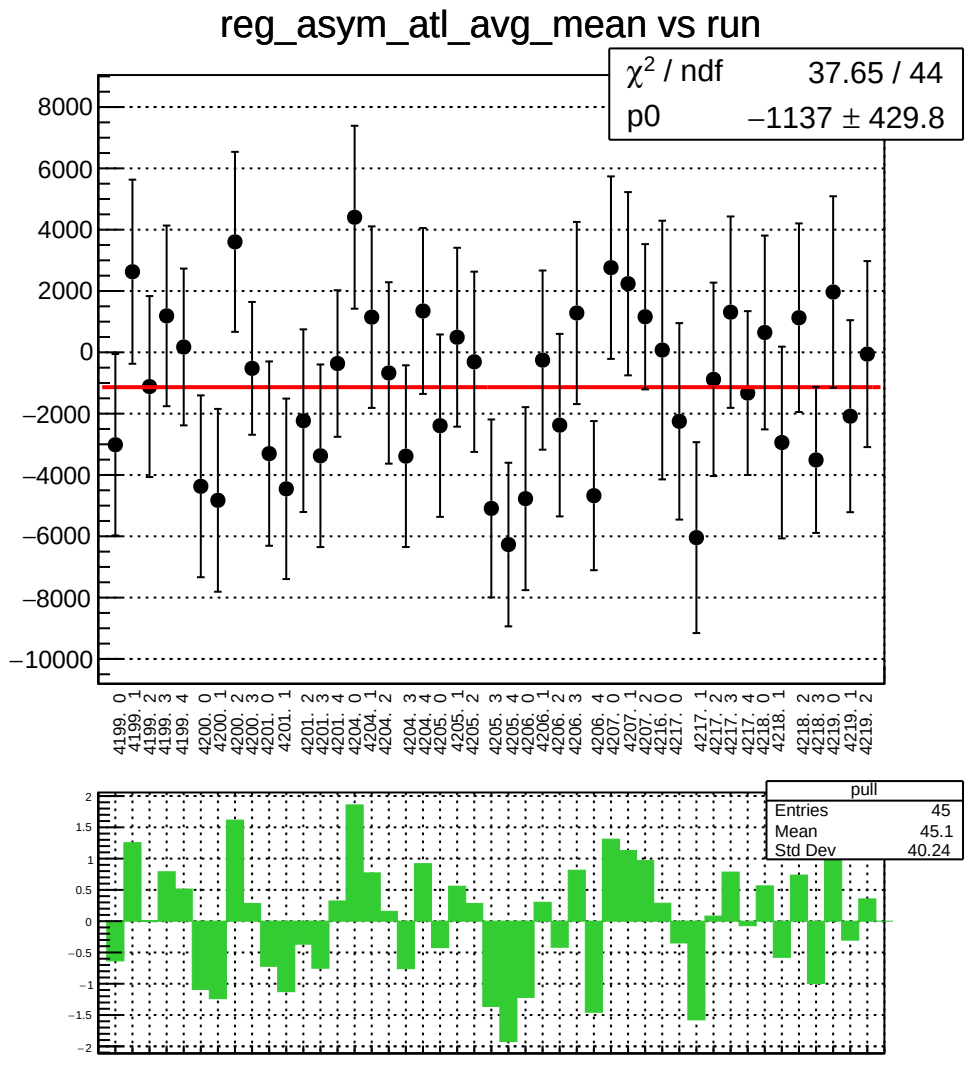

pull1D
Entries 45
Mean 0.008088
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

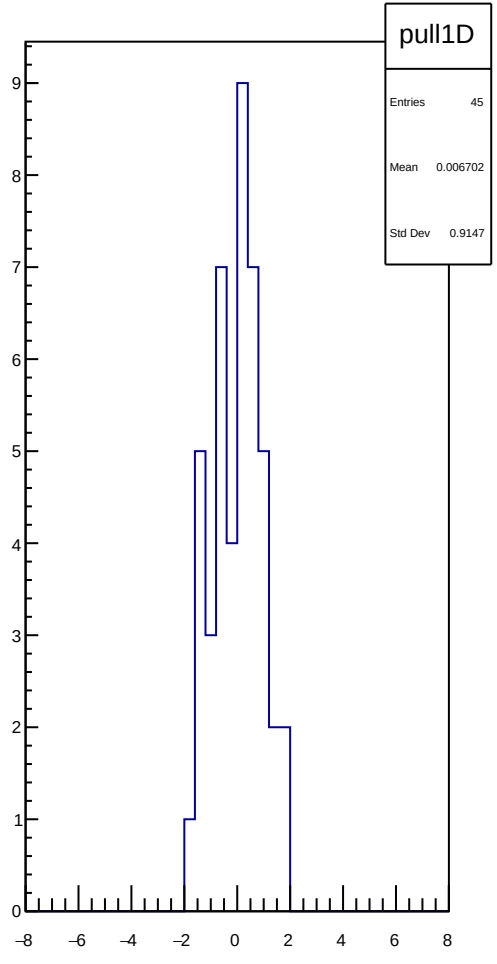

asym_atr2_correction_rms vs run
χ² / ndf 3.22e+04 / 44
p0 1983 ± 2.155
3200
3000
2800
2600
2400
2200
2000
1800
1600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

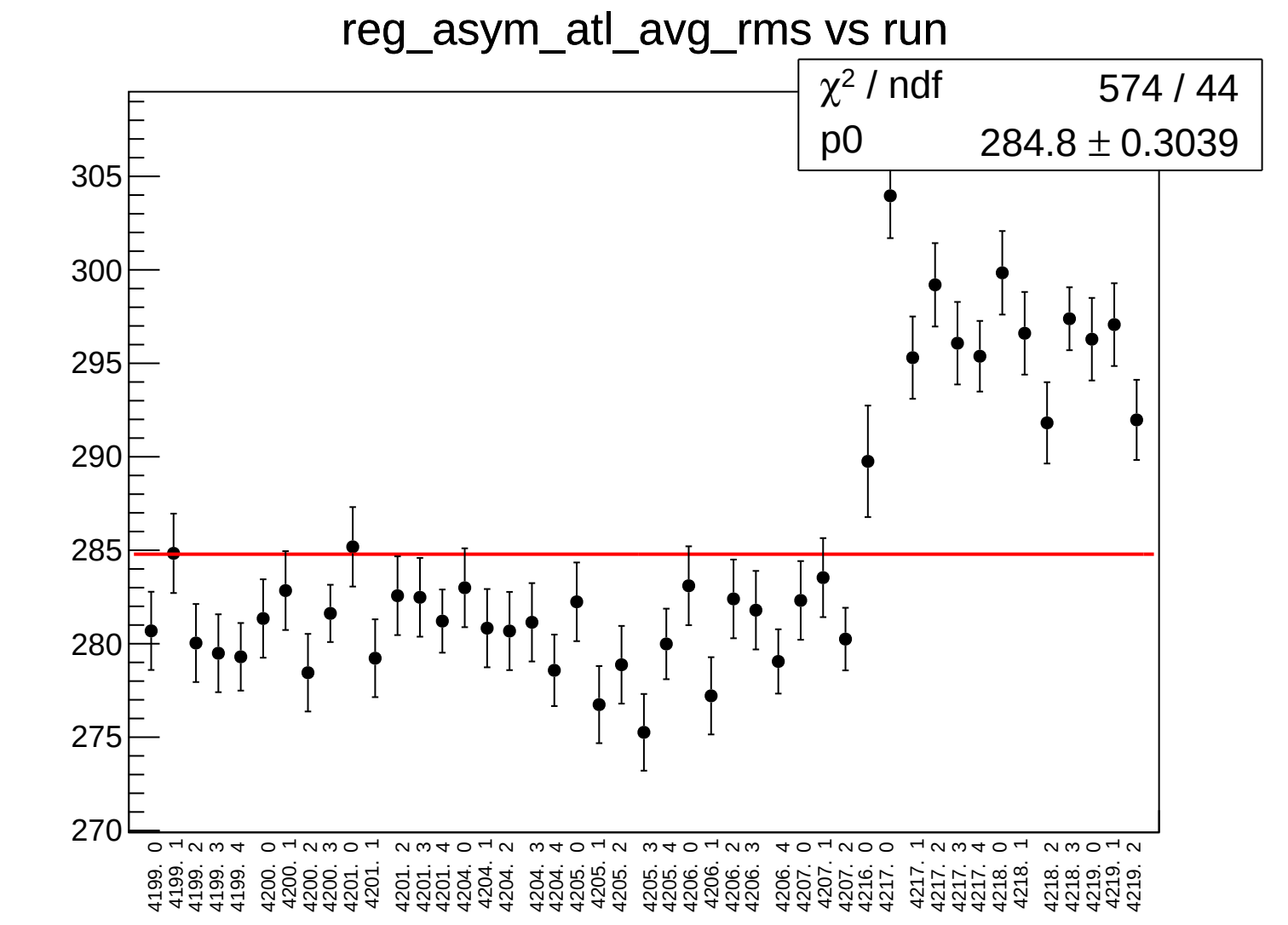

asym_atr2_mean vs run
×10^3
χ² / ndf 48.91 / 44
p0 −3591 ± 3104
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 73.09
Std Dev 37.97
3
2
1
0
−1
−2

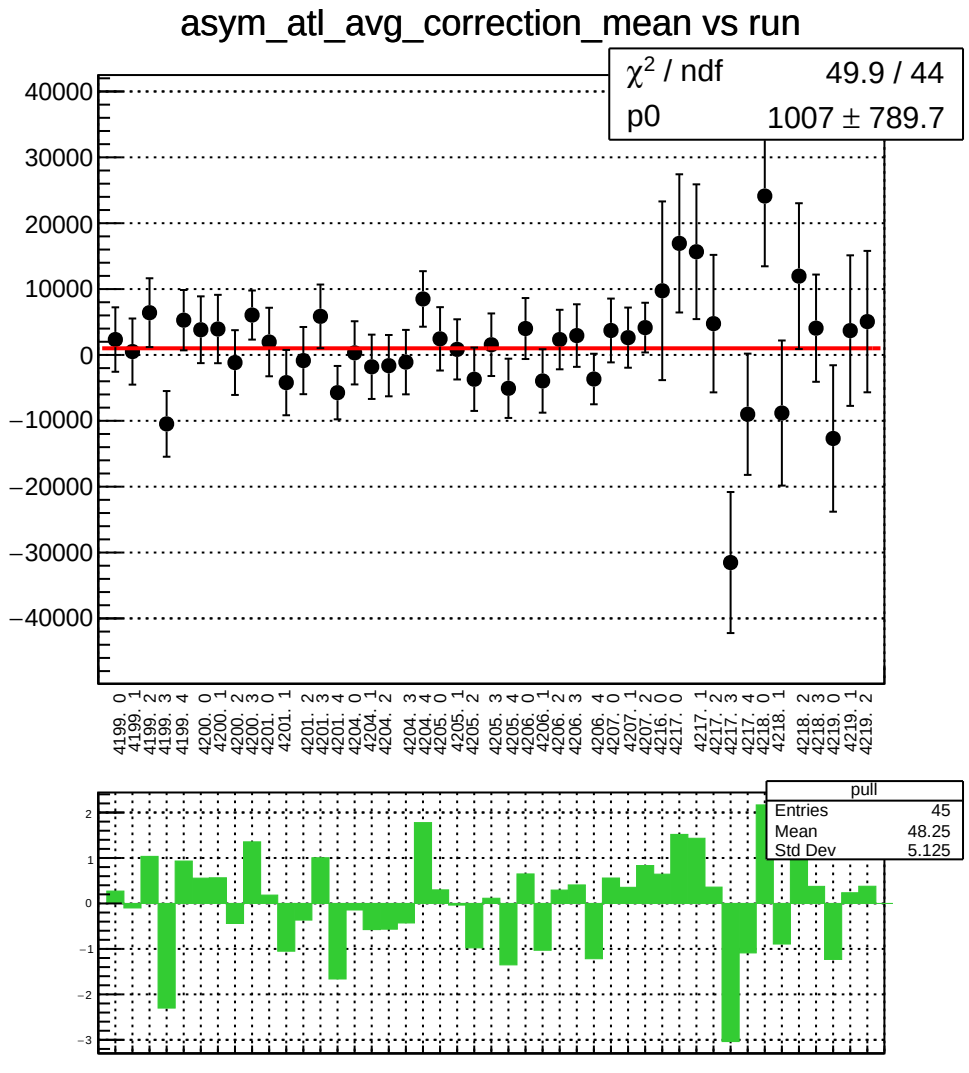

pull1D
Entries 45
Mean −0.01092
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

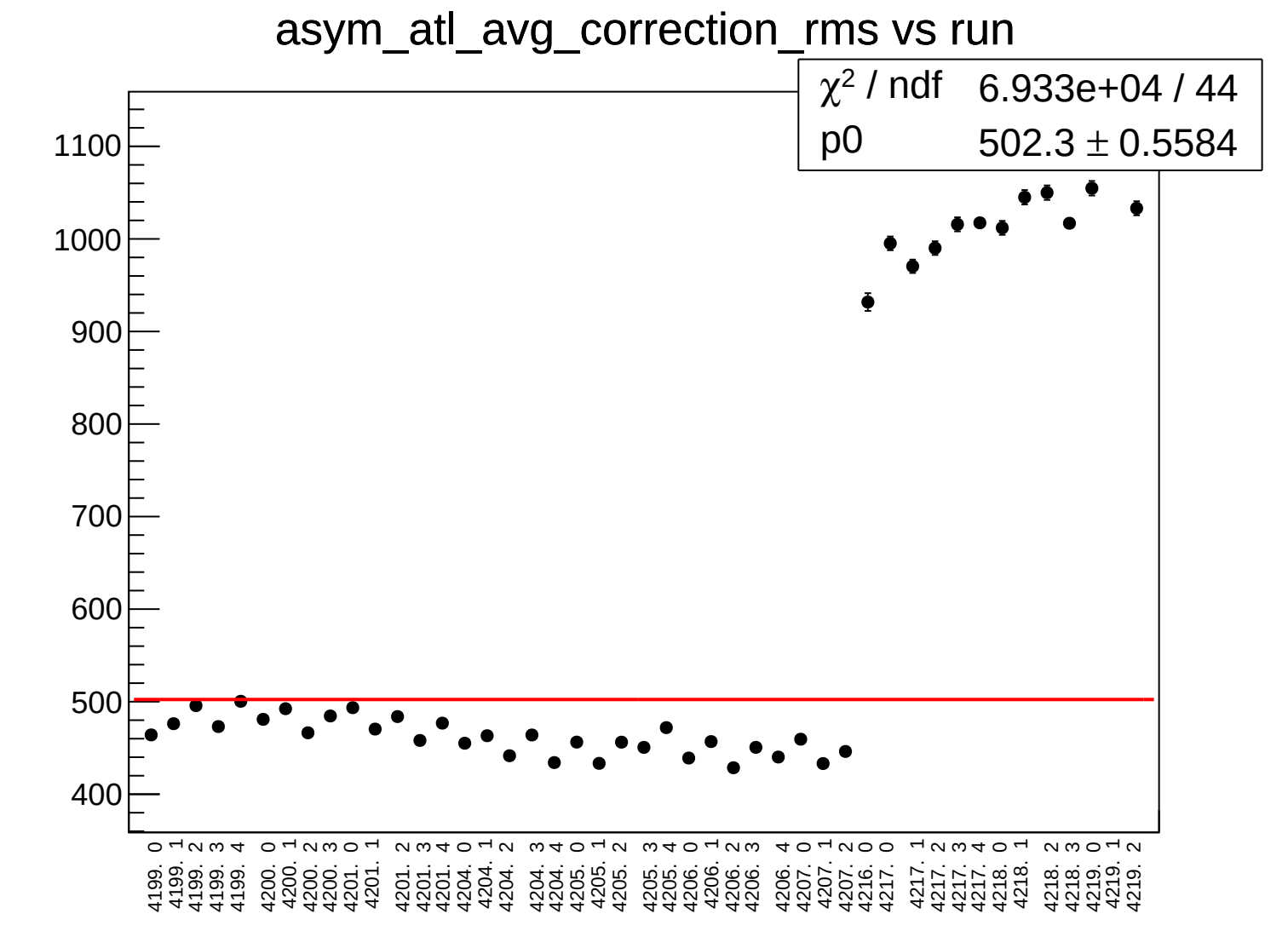

asym_atr2_rms vs run
χ² / ndf 3.115e+04 / 44
p0 2021 ± 2.195
3200
3000
2800
2600
2400
2200
2000
1800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

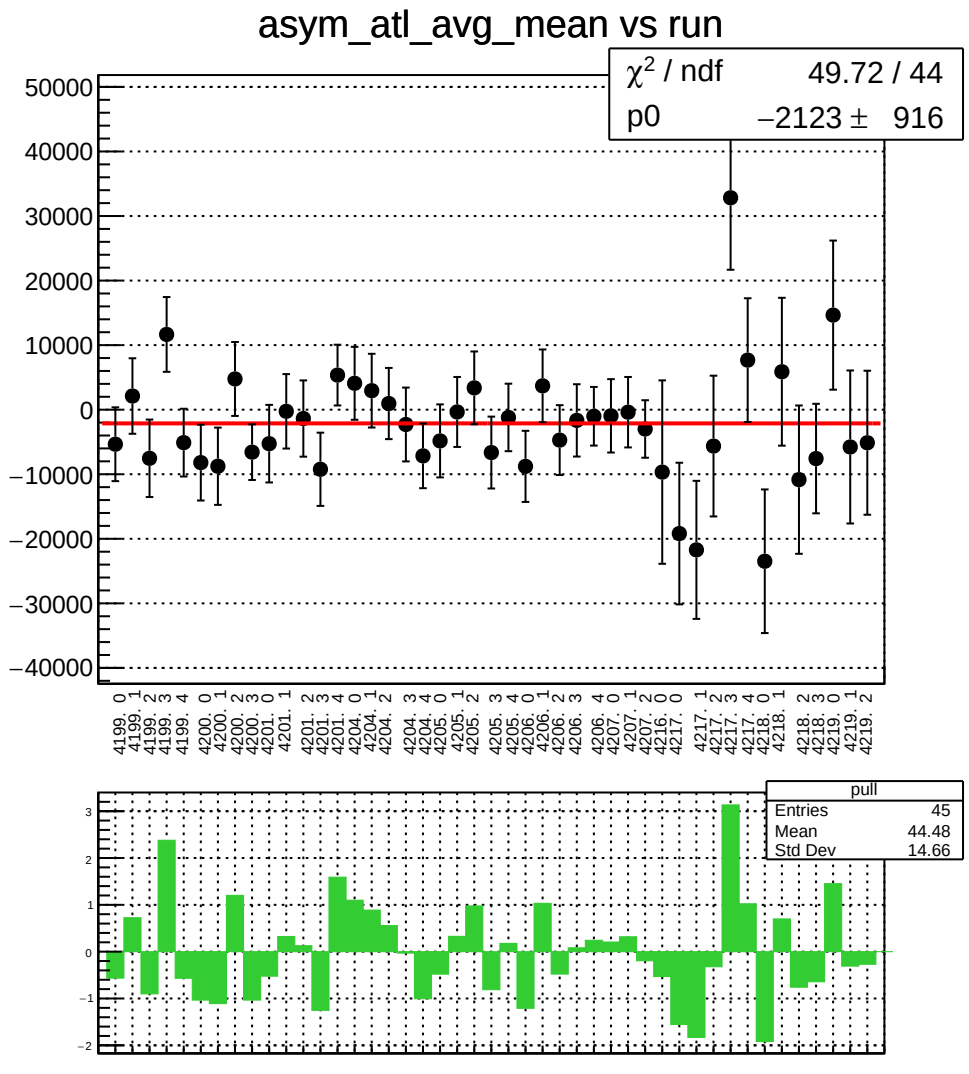

reg_asym_atl_avg_mean vs run
χ² / ndf 37.65 / 44
p0 −1137 ± 429.8
pull
Entries 45
Mean 45.1
Std Dev 40.24

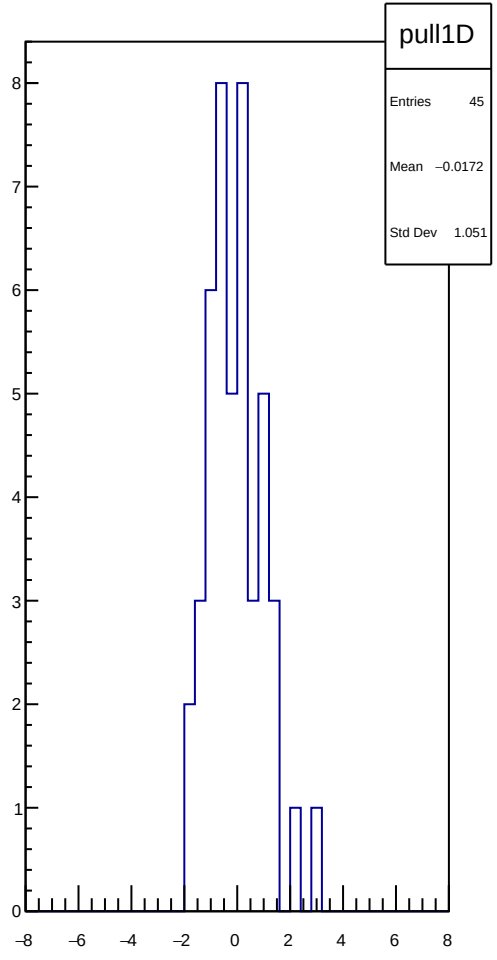

pull1D
Entries 45
Mean 0.006702
Std Dev 0.9147

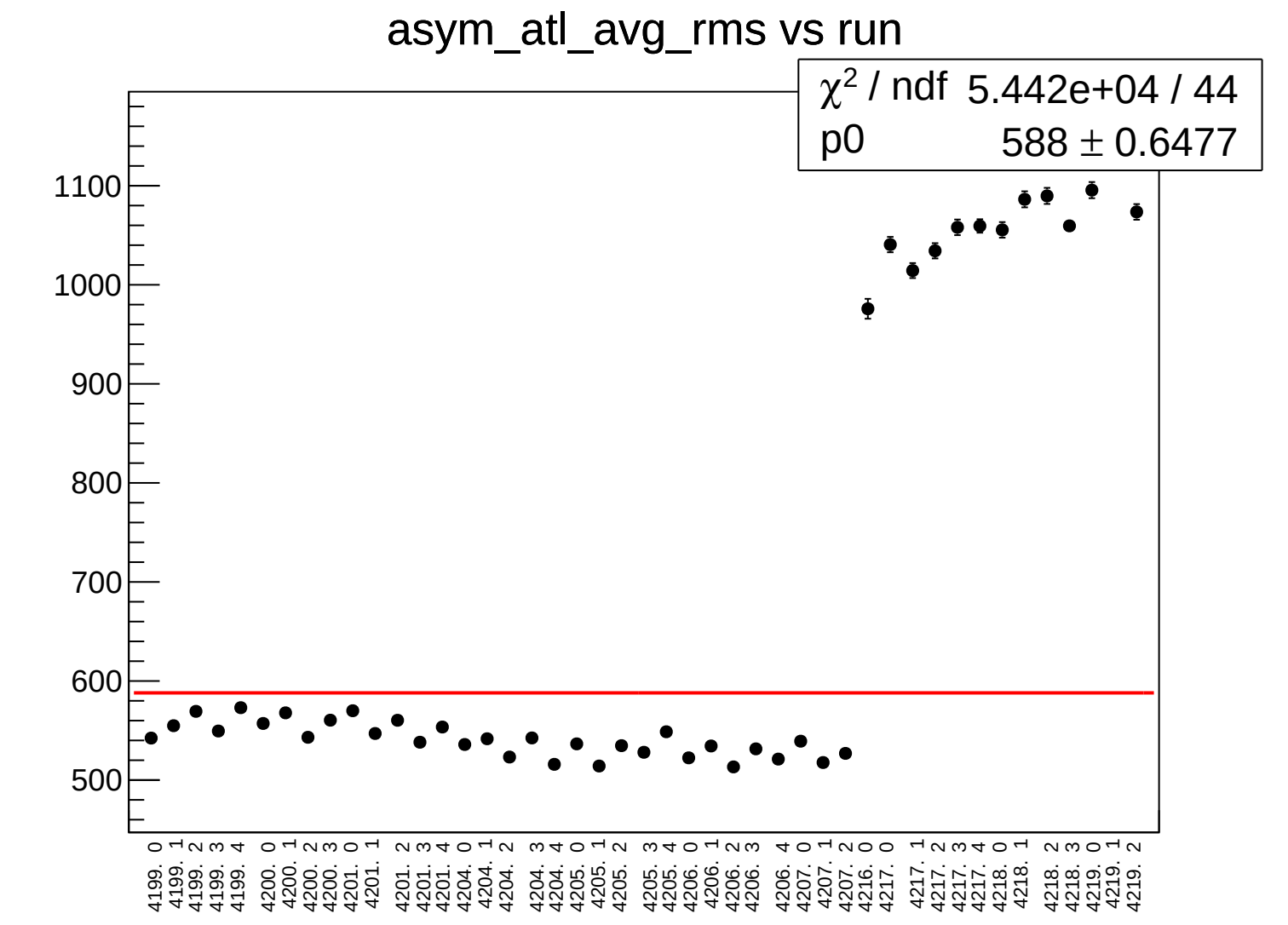

reg_asym_atl_avg_rms vs run
χ² / ndf 574 / 44
p0 284.8 ± 0.3039
305
300
295
290
285
280
275
270
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

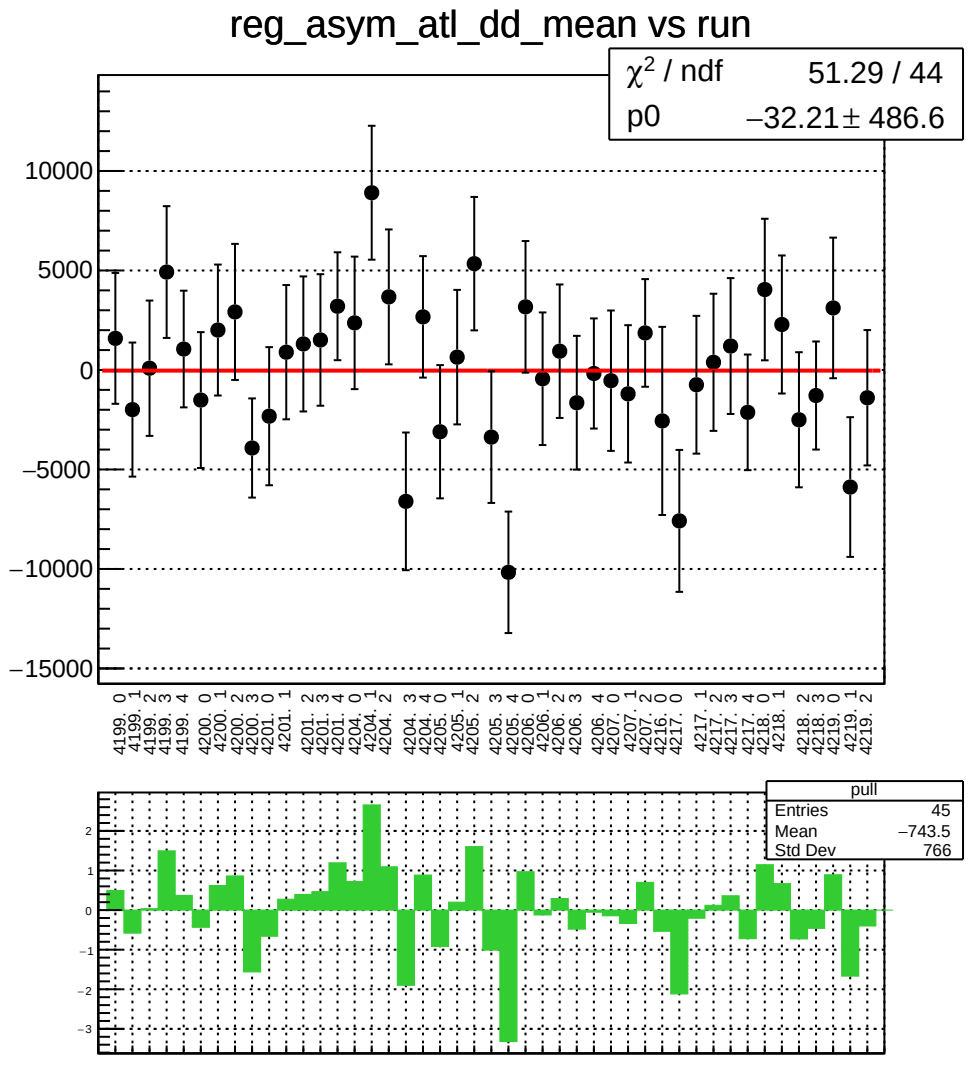

asym_atl_avg_correction_mean vs run
χ² / ndf 49.9 / 44
p0 1007 ± 789.7
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 48.25
Std Dev 5.125
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01783
Std Dev 1.053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

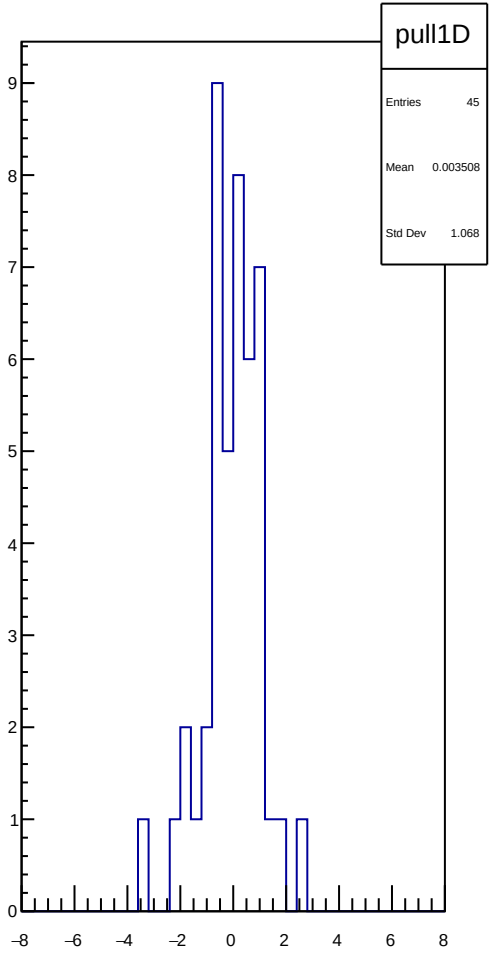

asym_atl_avg_correction_rms vs run
χ² / ndf 6.933e+04 / 44
p0 502.3 ± 0.5584
1100
1000
900
800
700
600
500
400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

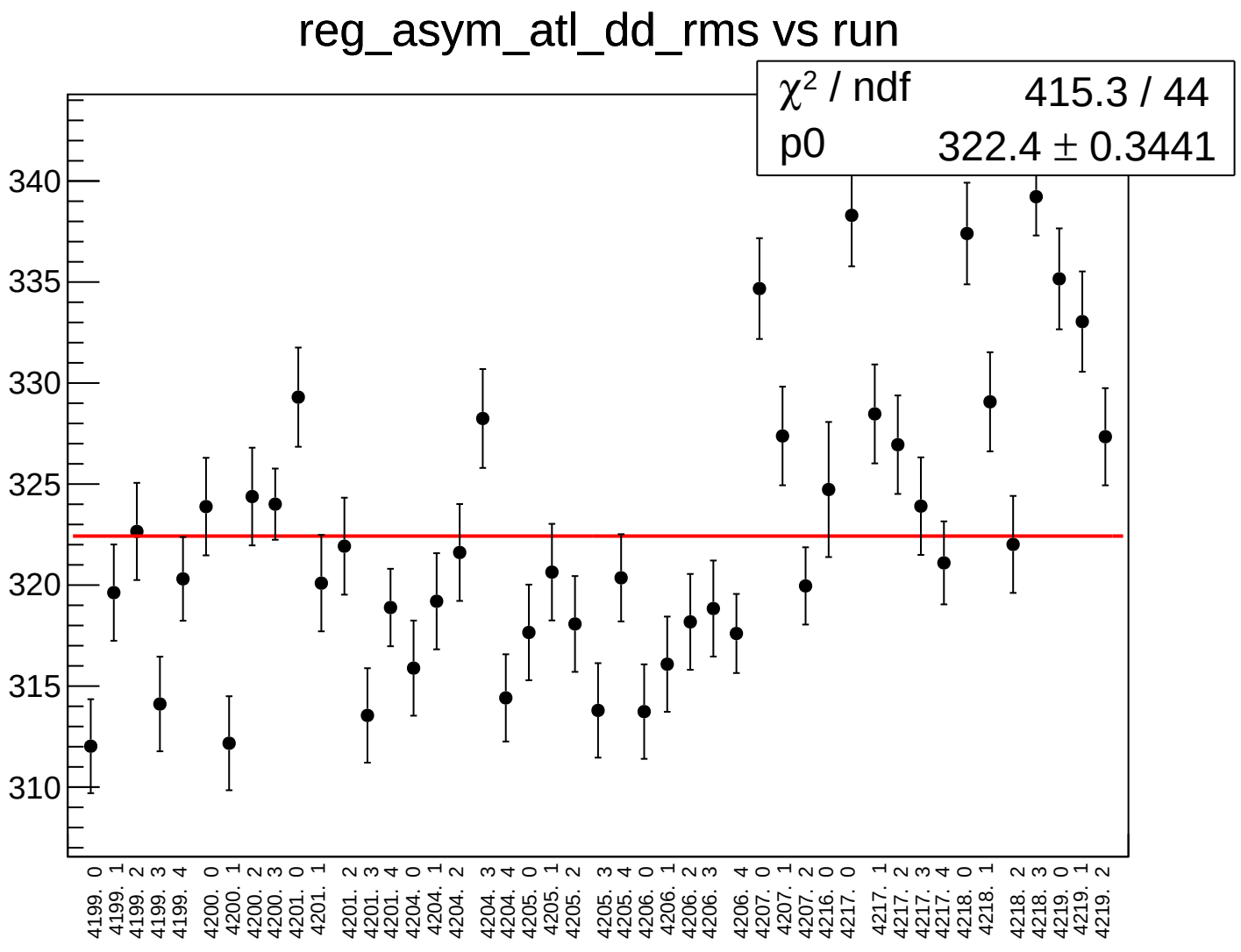

asym_atl_avg_mean vs run
χ² / ndf 49.72 / 44
p0 −2123 ± 916
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 44.48
Std Dev 14.66
3
2
1
0
−1
−2

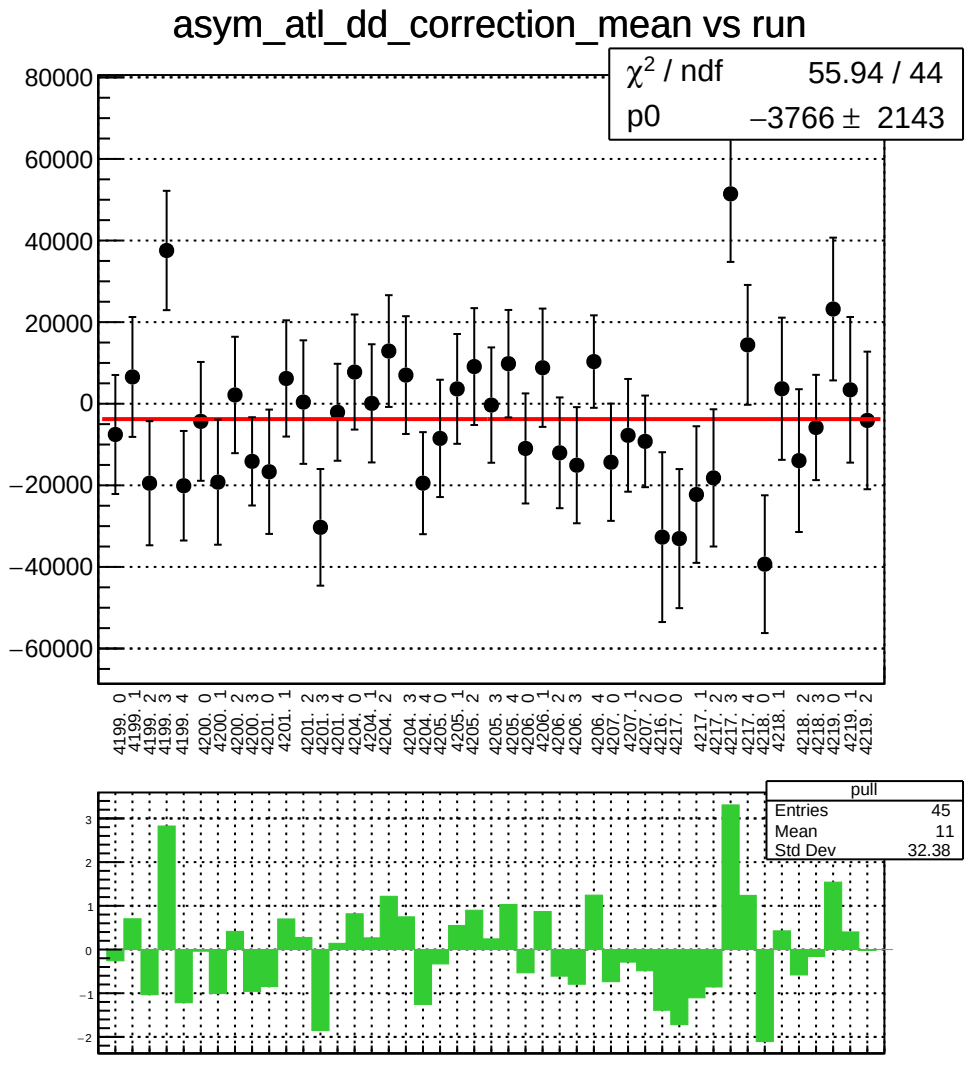

pull1D
Entries 45
Mean −0.0172
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

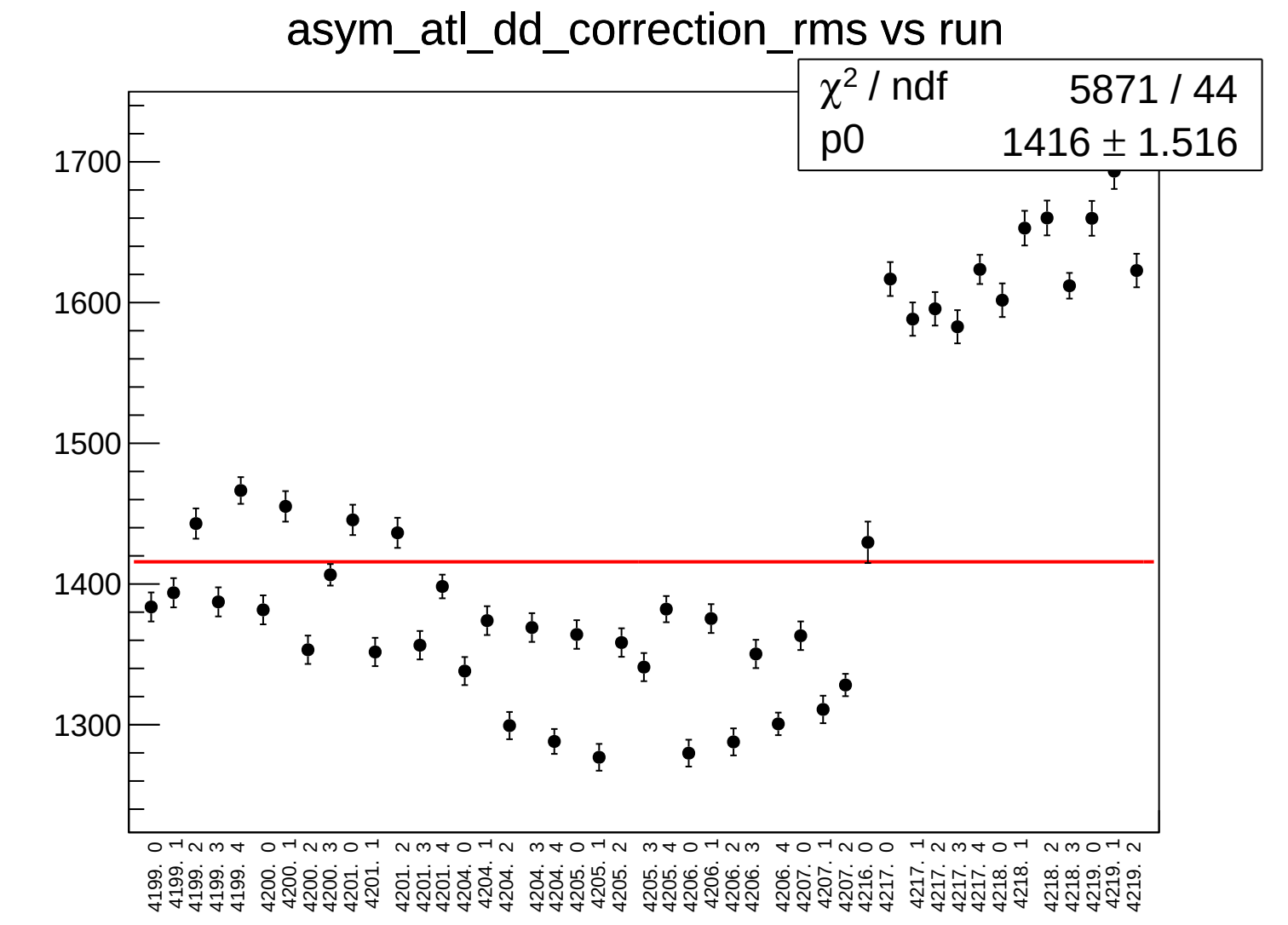

asym_atl_avg_rms vs run
χ² / ndf 5.442e+04 / 44
p0 588 ± 0.6477
1100
1000
900
800
700
600
500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

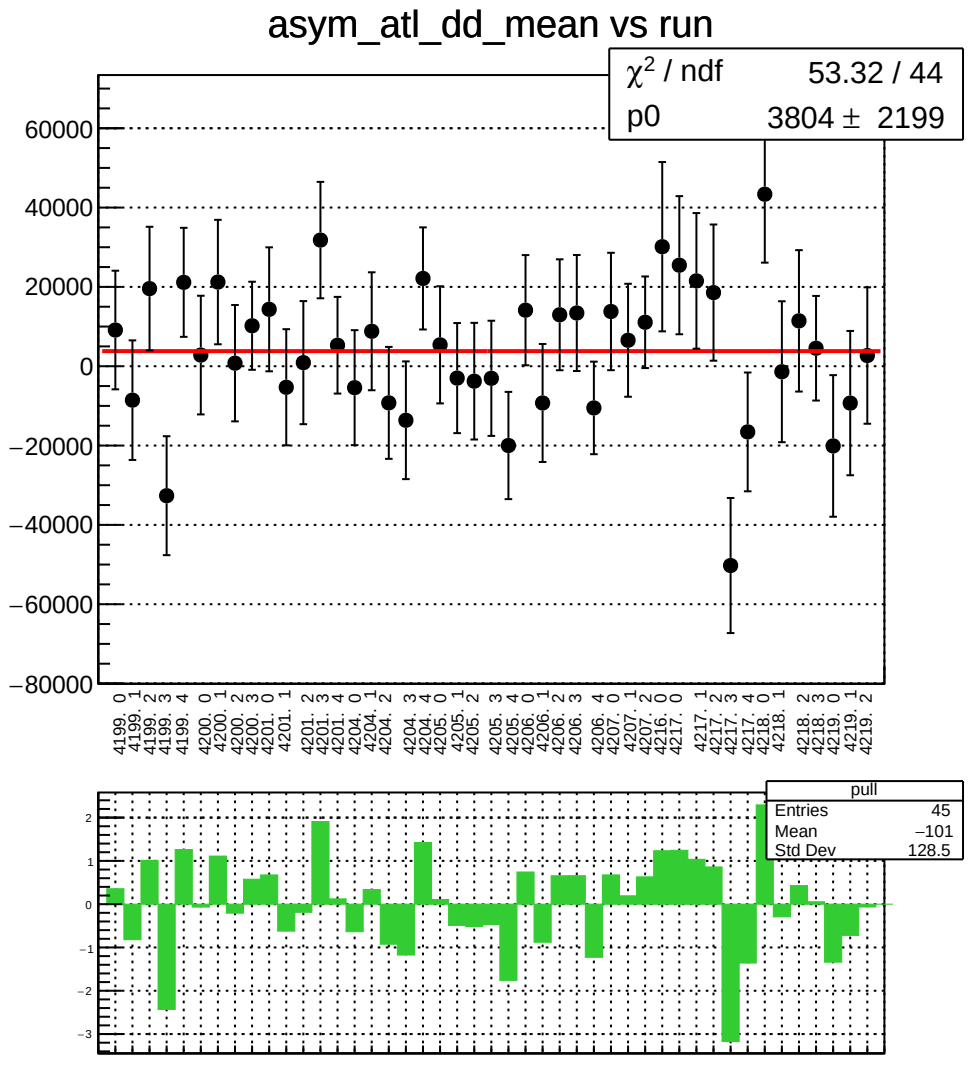

reg_asym_atl_dd_mean vs run
χ² / ndf 51.29 / 44
p0 −32.21 ± 486.6
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −743.5
Std Dev 766
2
1
0
−1
−2
−3

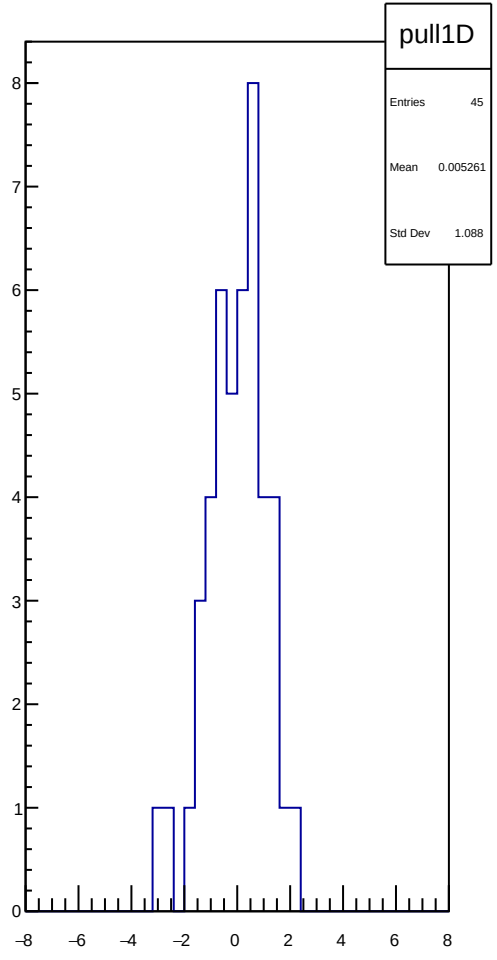

pull1D
Entries 45
Mean 0.003508
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

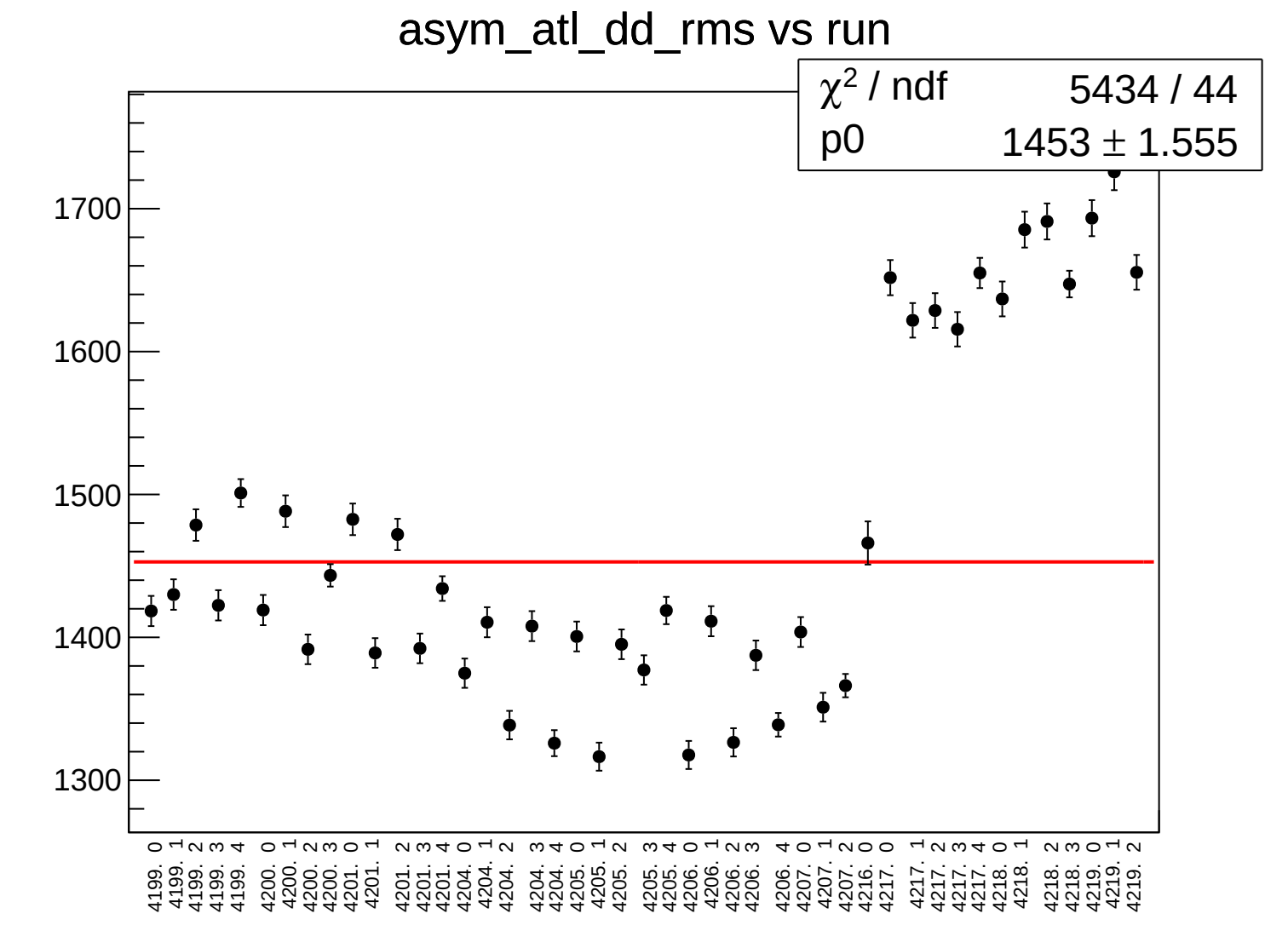

reg_asym_atl_dd_rms vs run
χ² / ndf 415.3 / 44
p0 322.4 ± 0.3441
340
335
330
325
320
315
310
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

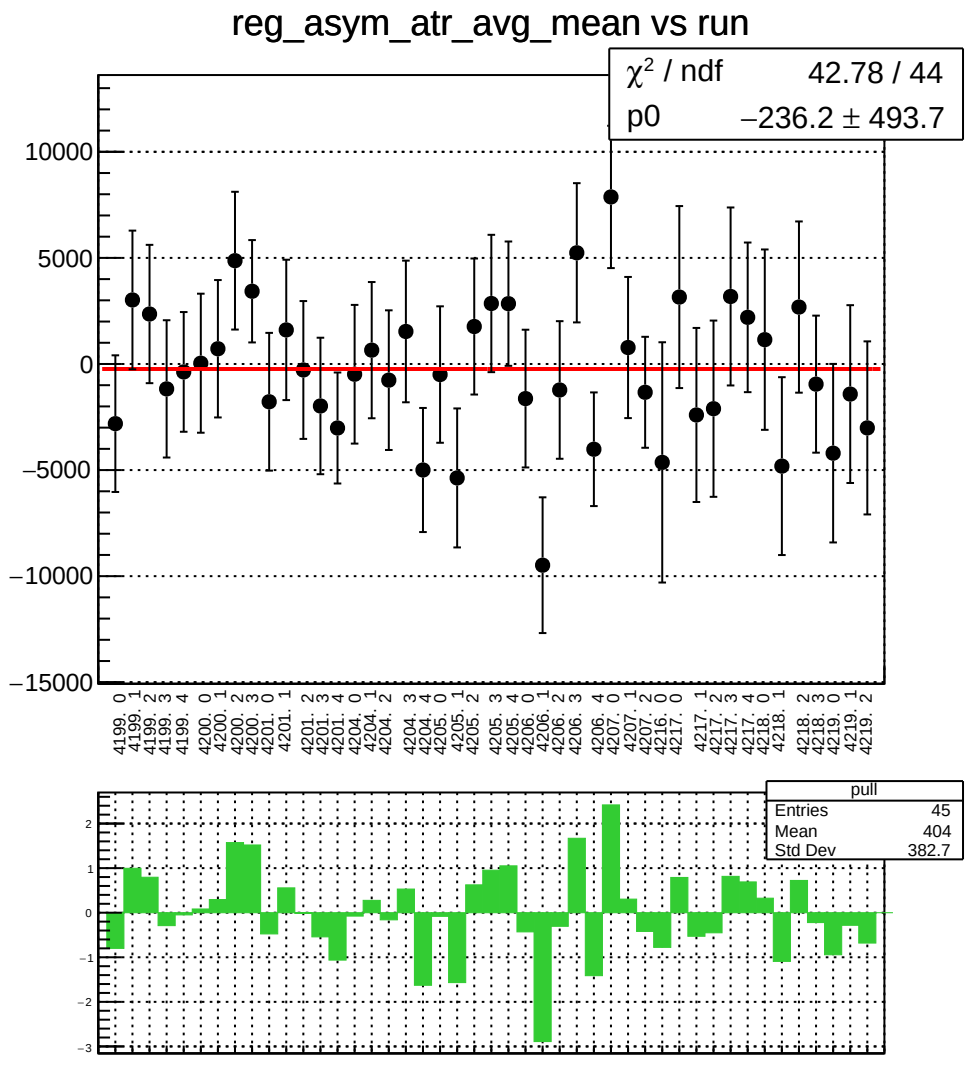

asym_atl_dd_correction_mean vs run
χ² / ndf 55.94 / 44
p0 −3766 ± 2143
80000
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 11
Std Dev 32.38
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.006968
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

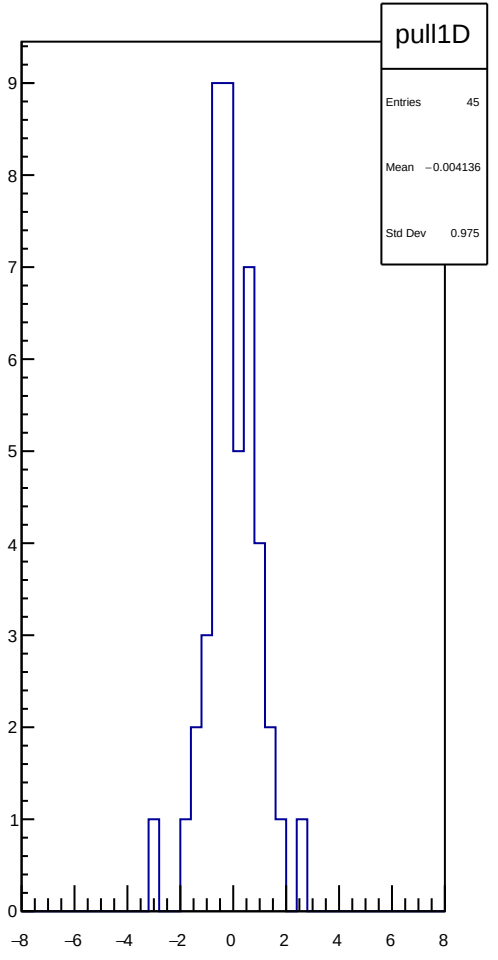

asym_atl_dd_correction_rms vs run
χ² / ndf 5871 / 44
p0 1416 ± 1.516
1700
1600
1500
1400
1300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

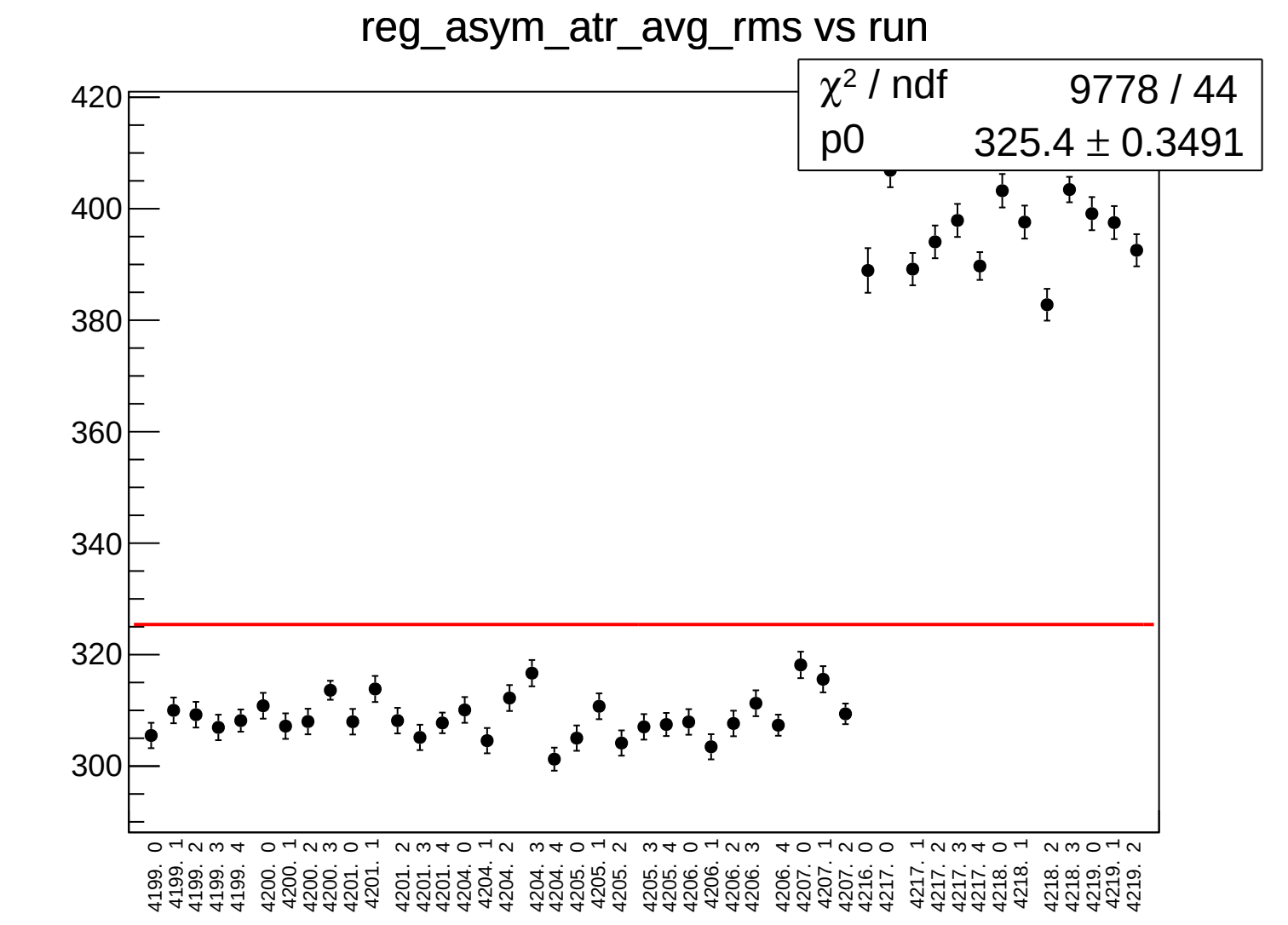

asym_atl_dd_mean vs run
χ² / ndf 53.32 / 44
p0 3804 ± 2199
60000
40000
20000
0
−20000
−40000
−60000
−80000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −101
Std Dev 128.5
2
1
0
−1
−2
−3

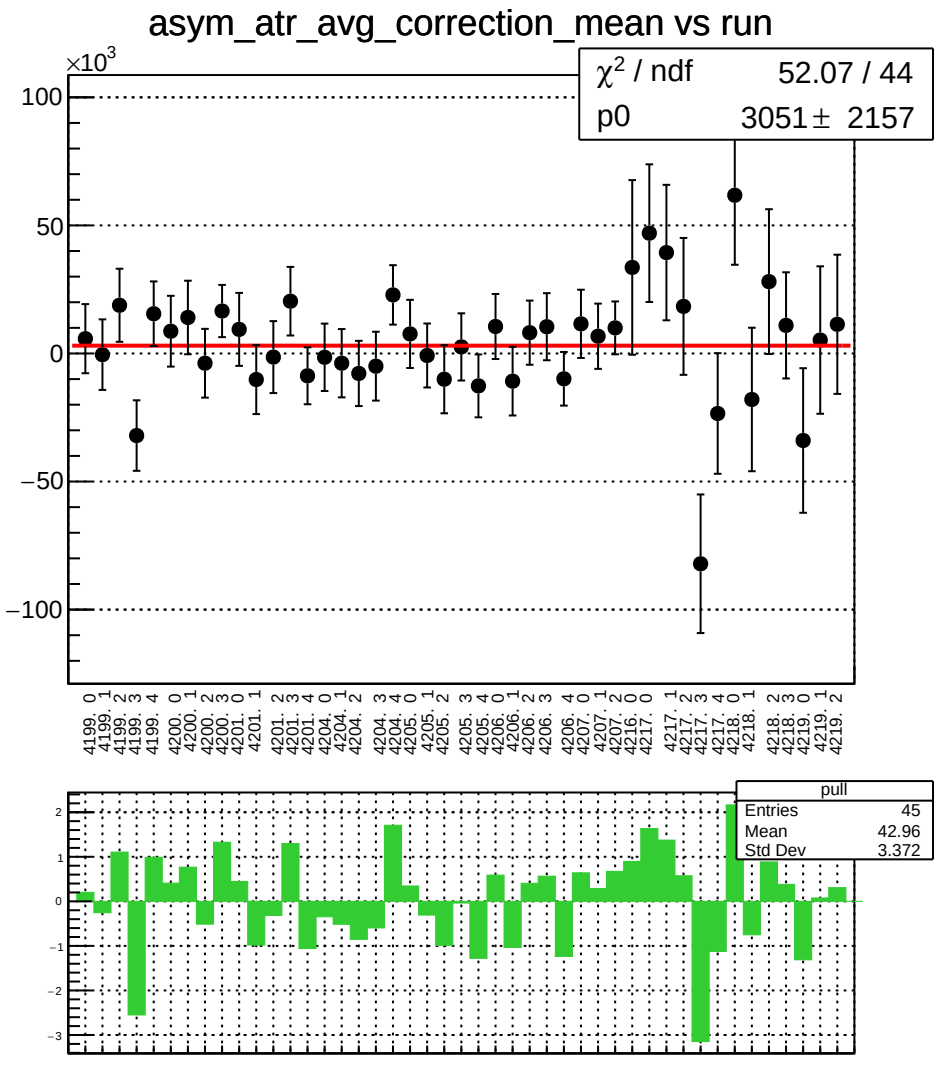

pull1D
Entries 45
Mean 0.005261
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

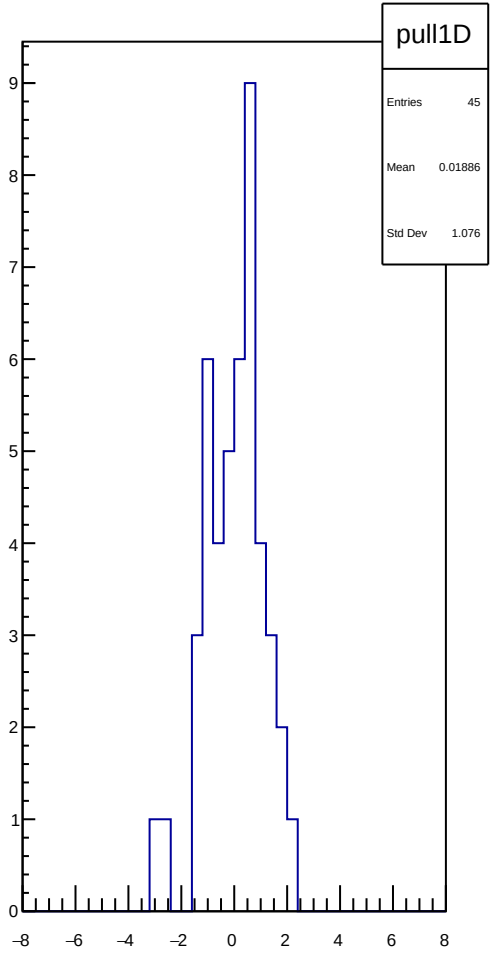

asym_atl_dd_rms vs run
χ² / ndf 5434 / 44
p0 1453 ± 1.555
1700
1600
1500
1400
1300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

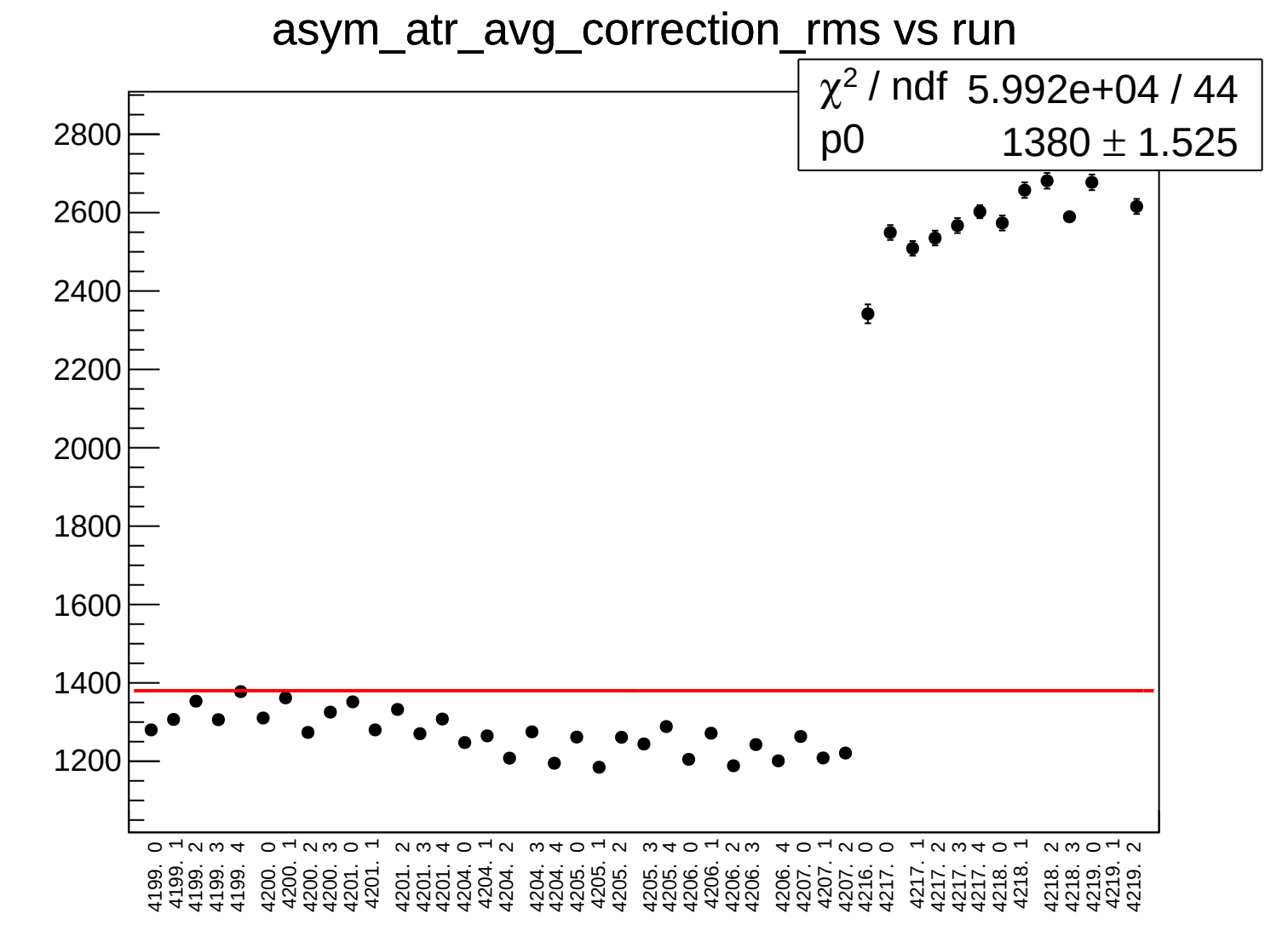

reg_asym_atr_avg_mean vs run
χ² / ndf 42.78 / 44
p0 −236.2 ± 493.7
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 404
Std Dev 382.7
2
1
0
−1
−2
−3

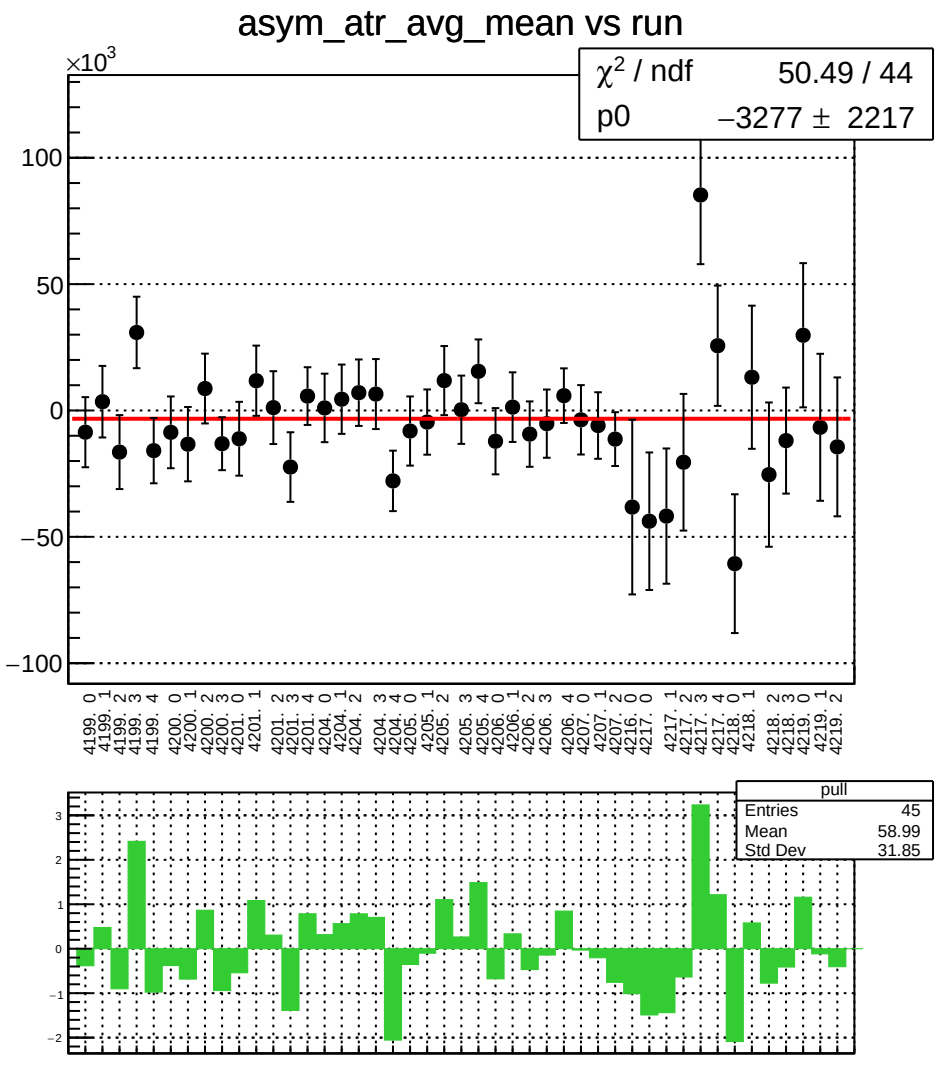

pull1D
Entries 45
Mean −0.004136
Std Dev 0.975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

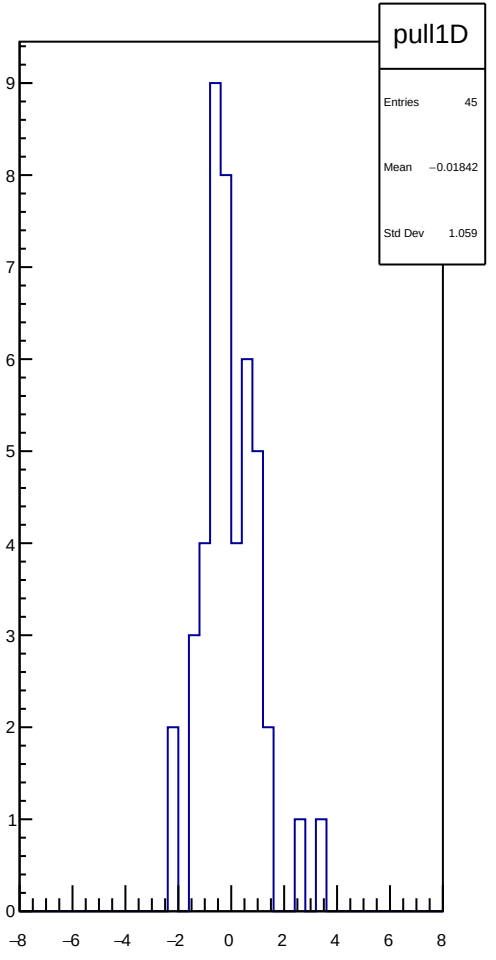

reg_asym_atr_avg_rms vs run
χ² / ndf 9778 / 44
p0 325.4 ± 0.3491
420
400
380
360
340
320
300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

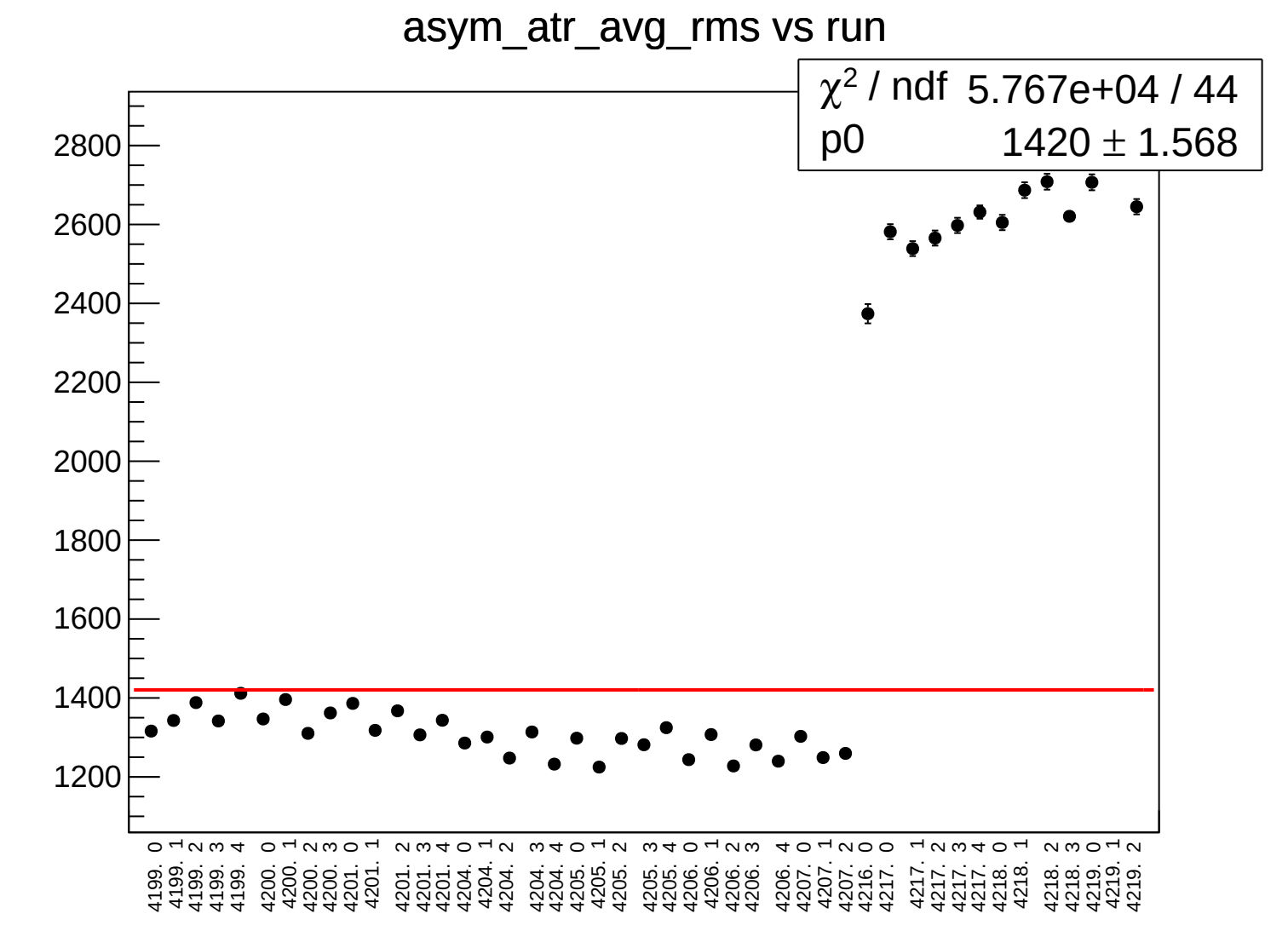

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 52.07 / 44
p0 3051 ± 2157
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 42.96
Std Dev 3.372
2
1
0
−1
−2
−3

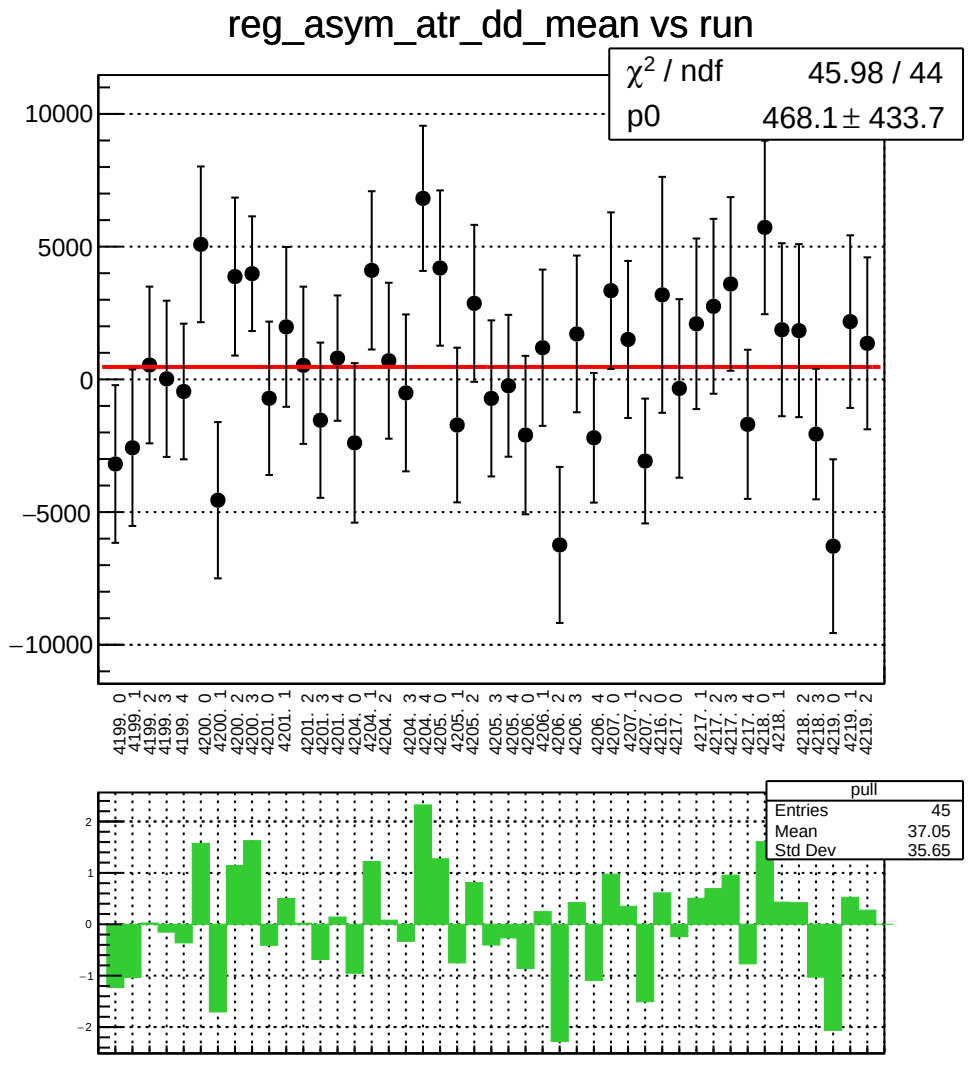

pull1D
Entries 45
Mean 0.01886
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

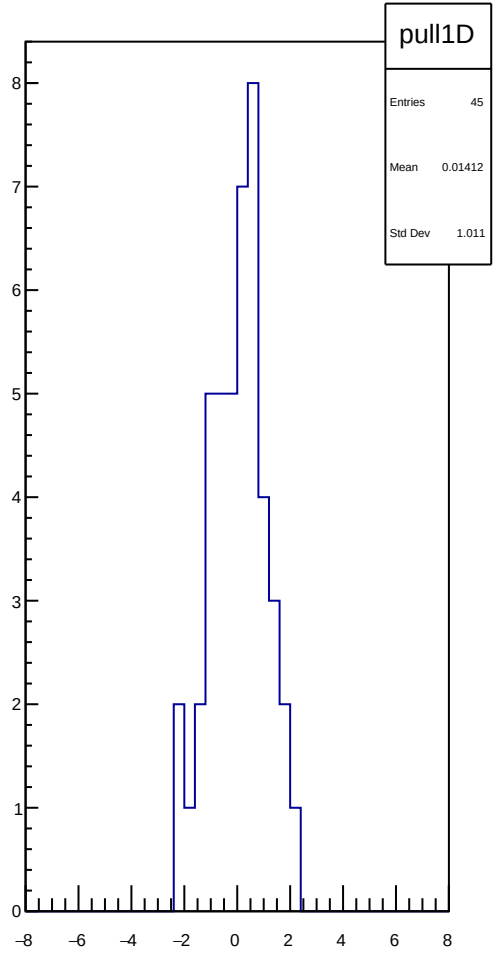

asym_atr_avg_correction_rms vs run
χ² / ndf 5.992e+04 / 44
p0 1380 ± 1.525
2800
2600
2400
2200
2000
1800
1600
1400
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

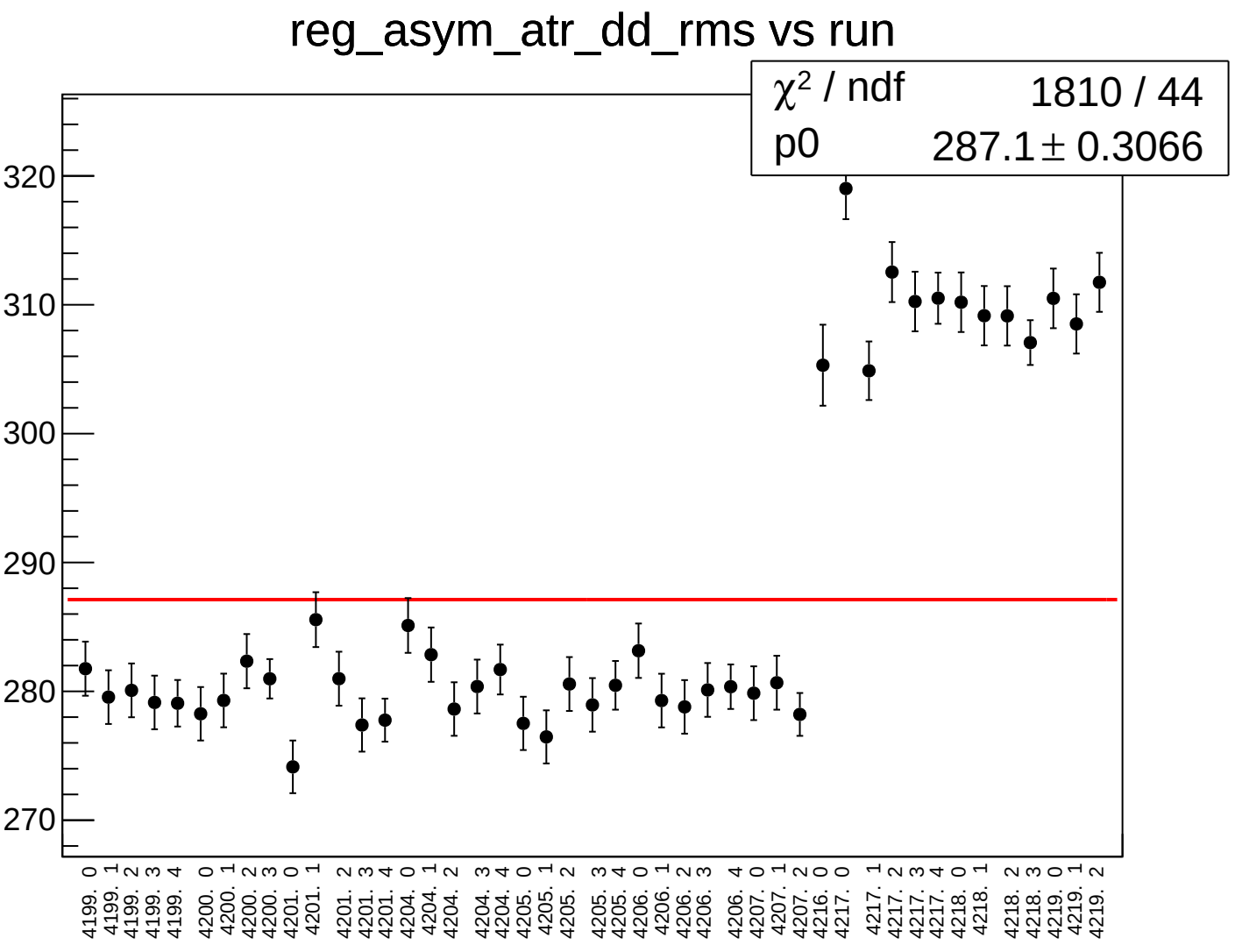

asym_atr_avg_mean vs run
×10^3
χ² / ndf 50.49 / 44
p0 −3277 ± 2217
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 58.99
Std Dev 31.85
3
2
1
0
−1
−2

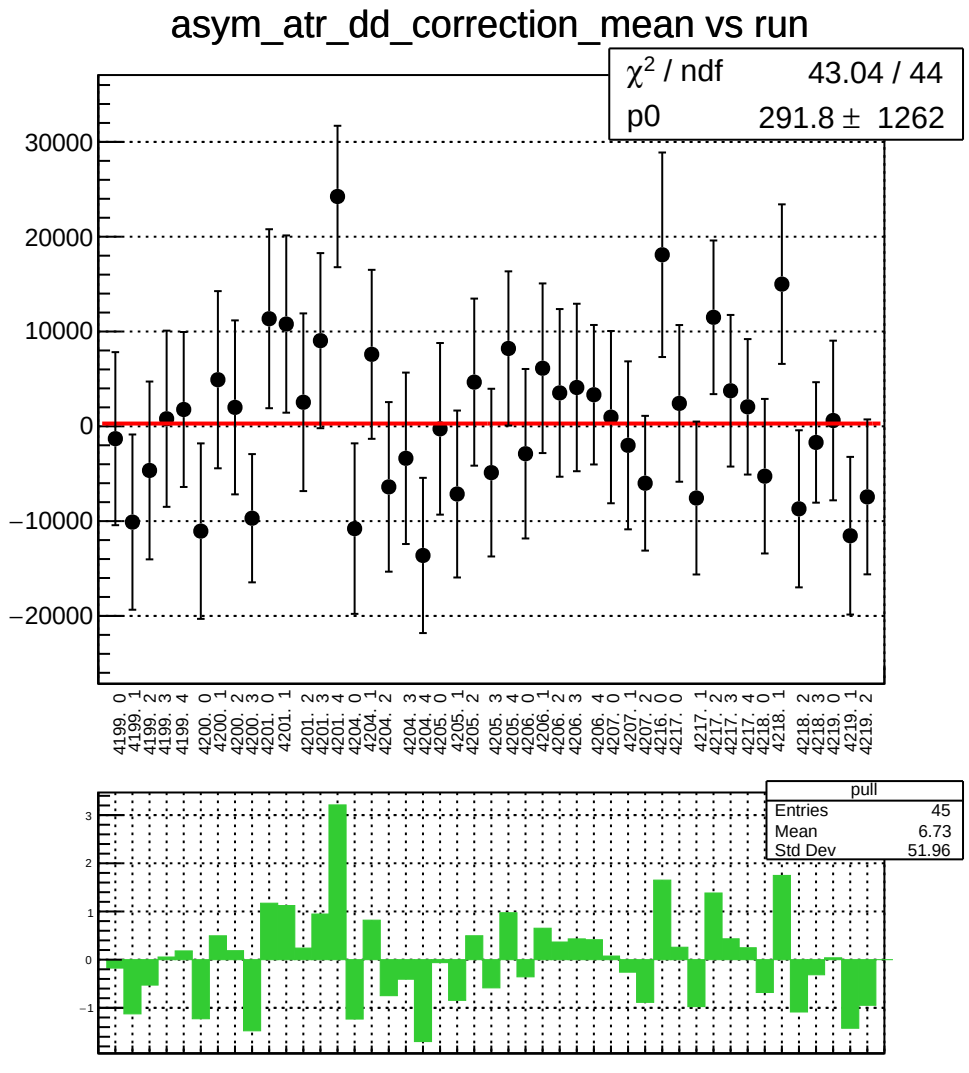

pull1D
Entries 45
Mean −0.01842
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

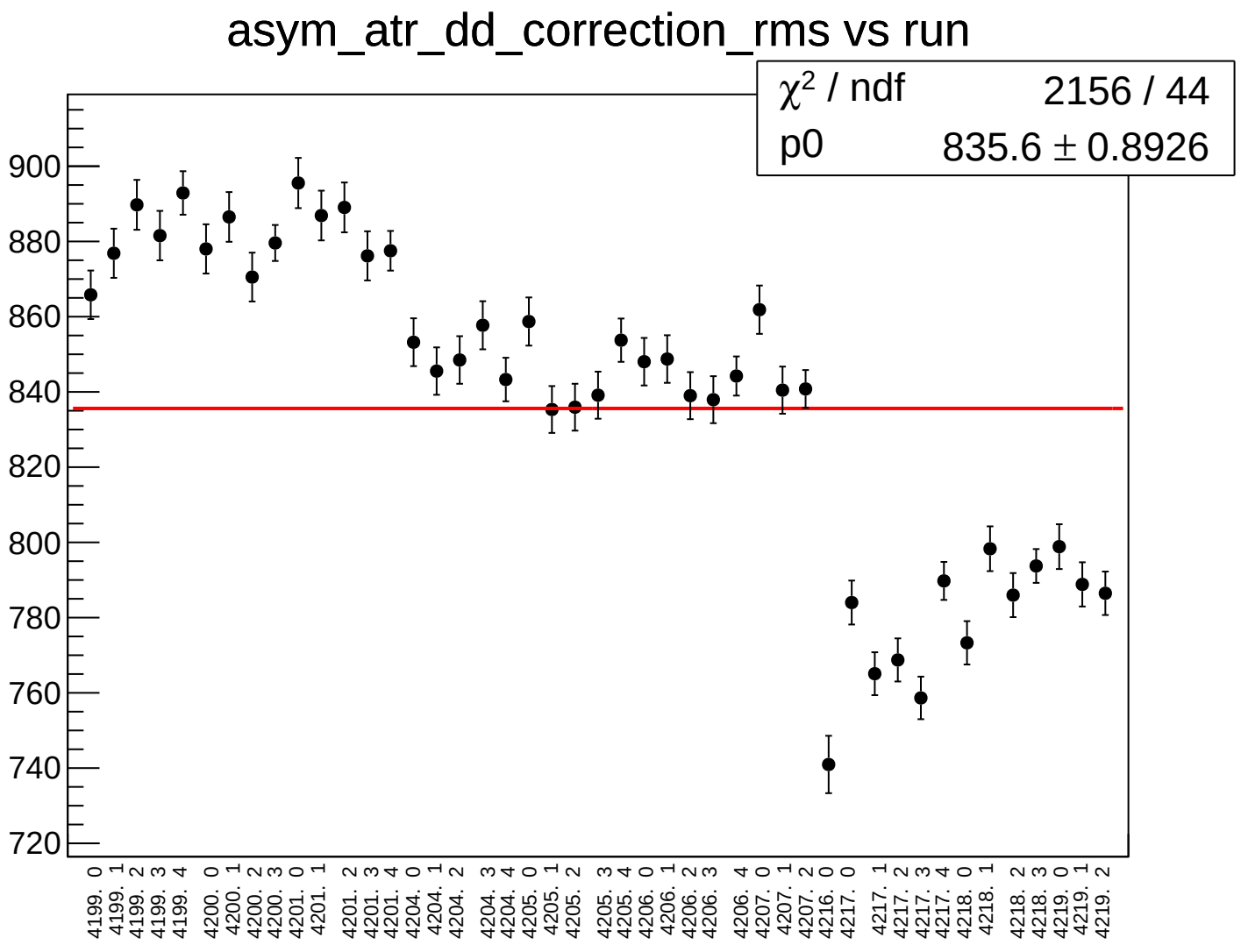

asym_atr_avg_rms vs run
χ² / ndf 5.767e+04 / 44
p0 1420 ± 1.568
2800
2600
2400
2200
2000
1800
1600
1400
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

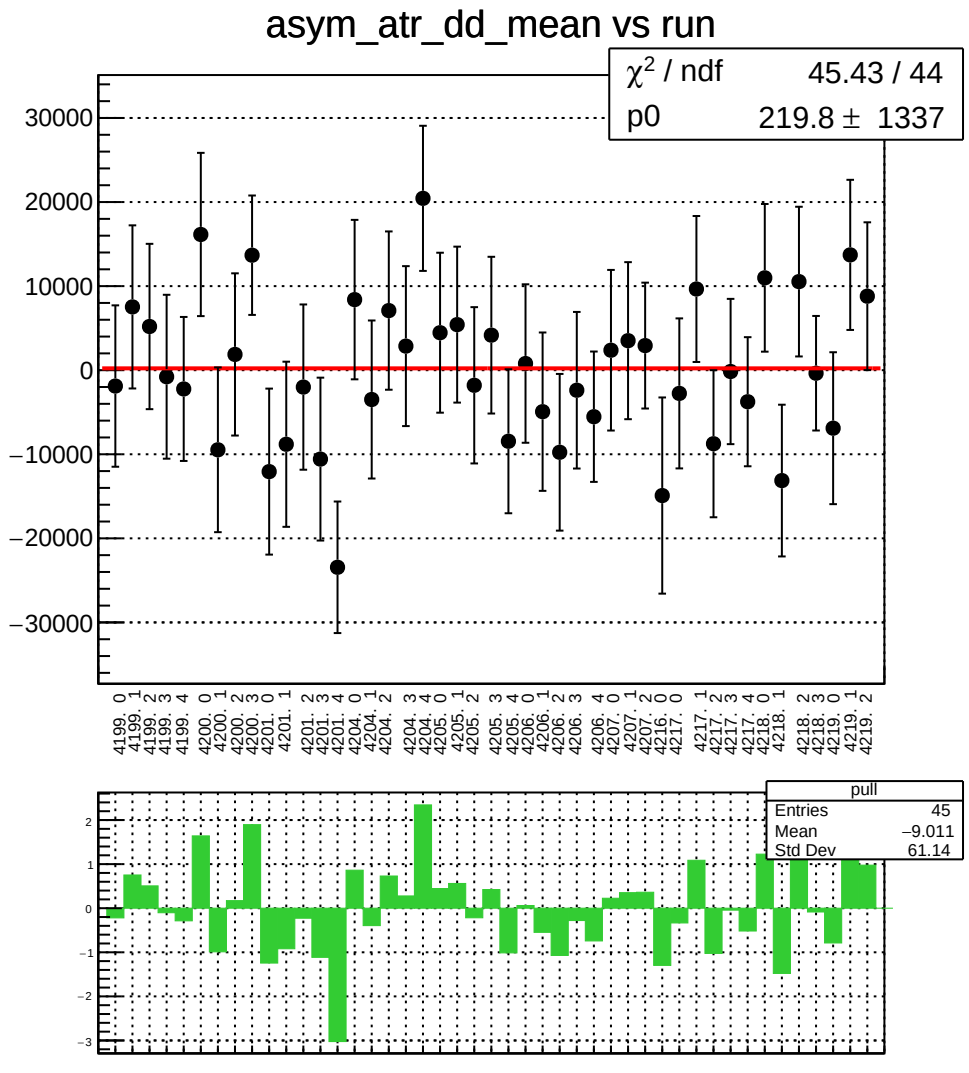

reg_asym_atr_dd_mean vs run
χ^2 / ndf 45.98 / 44
p0 468.1 ± 433.7
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 37.05
Std Dev 35.65
2
1
0
−1
−2

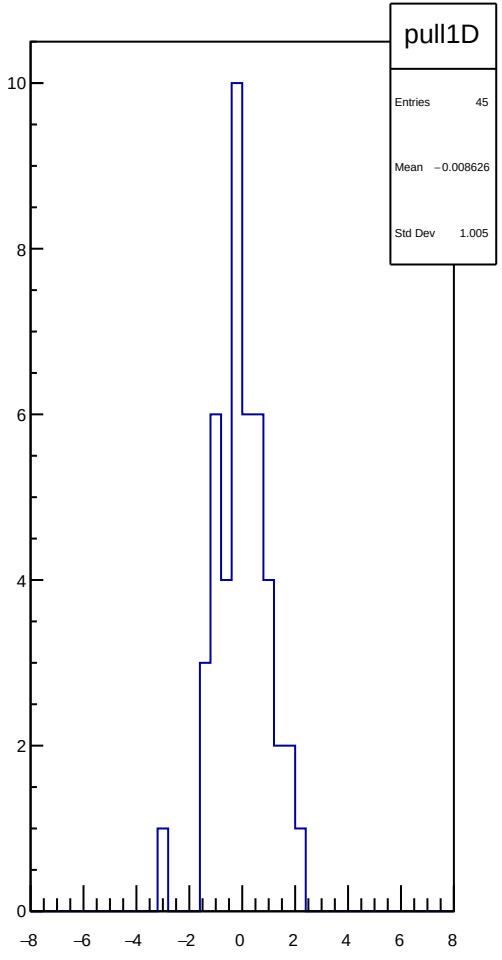

pull1D
Entries 45
Mean 0.01412
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

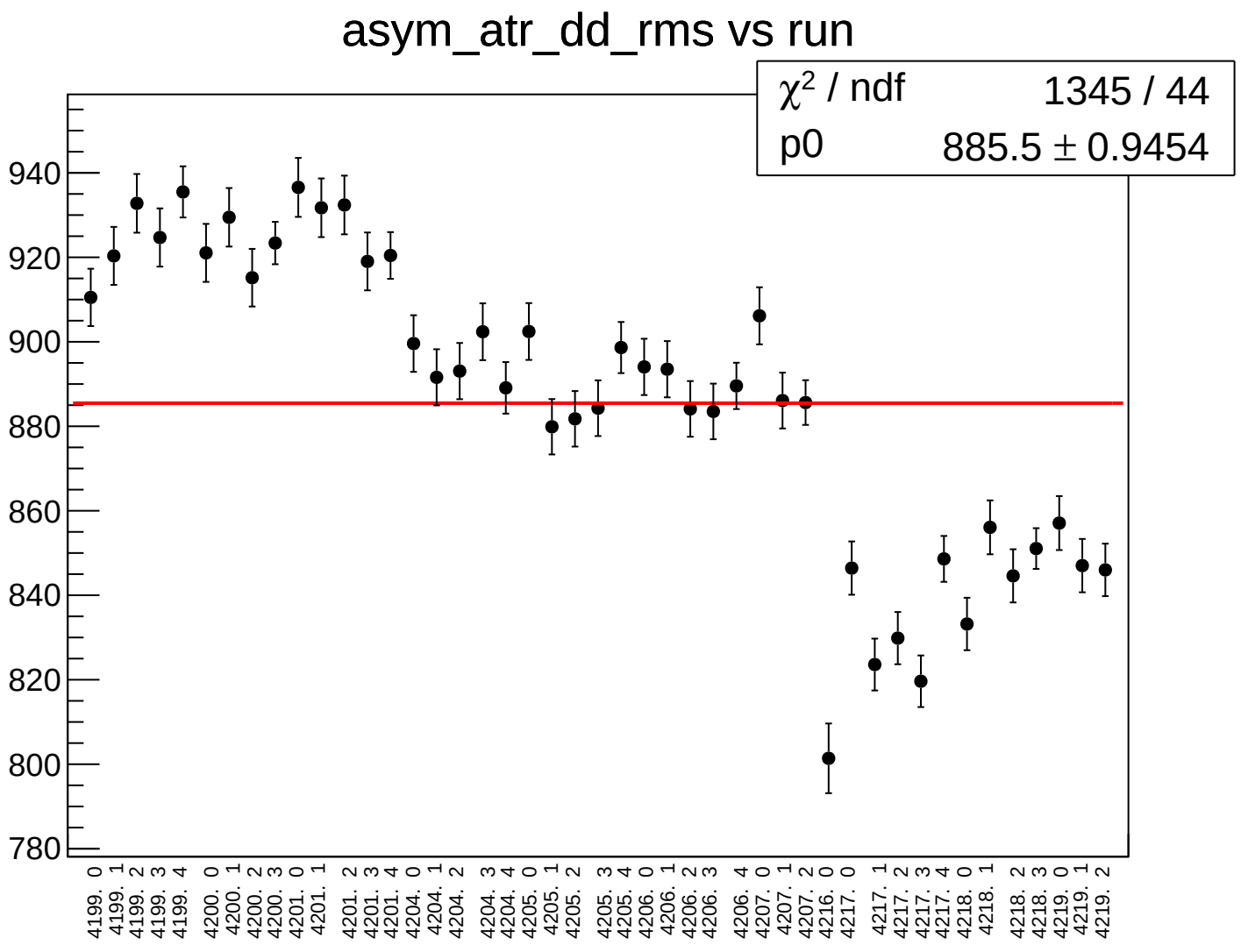

reg_asym_atr_dd_rms vs run
χ² / ndf 1810 / 44
p0 287.1 ± 0.3066
320
310
300
290
280
270
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

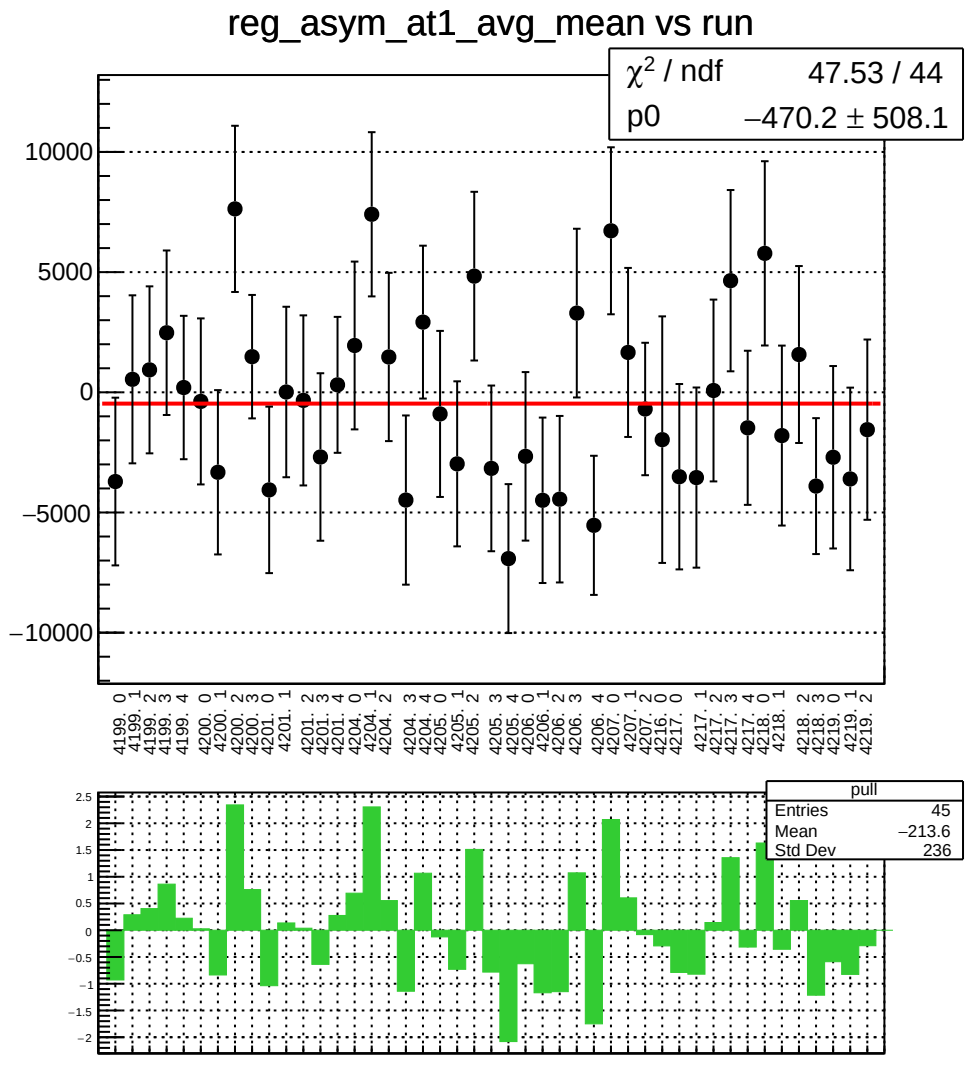

asym_atr_dd_correction_mean vs run
χ² / ndf 43.04 / 44
p0 291.8 ± 1262
30000
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 6.73
Std Dev 51.96
3
2
1
0
−1
pull1D
Entries 45
Mean 0.01245
Std Dev 0.9779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

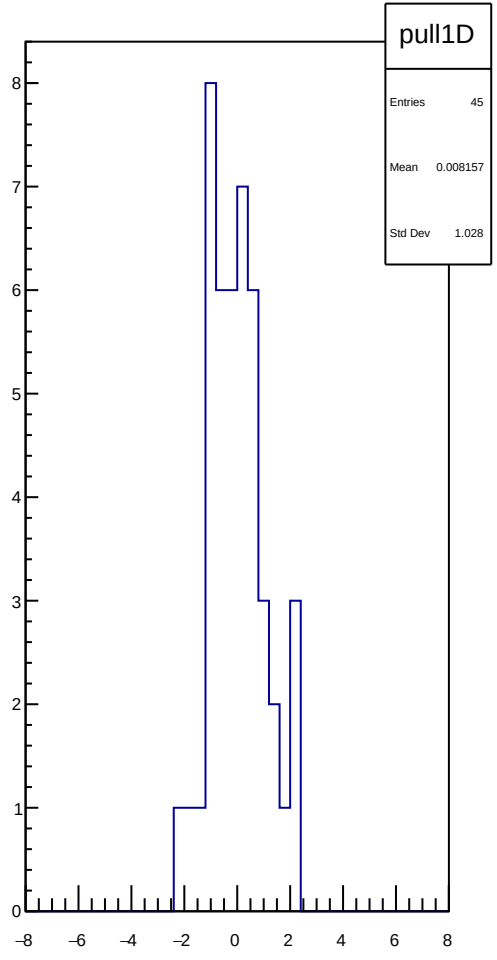

asym_atr_dd_correction_rms vs run
χ² / ndf 2156 / 44
p0 835.6 ± 0.8926
900
880
860
840
820
800
780
760
740
720
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

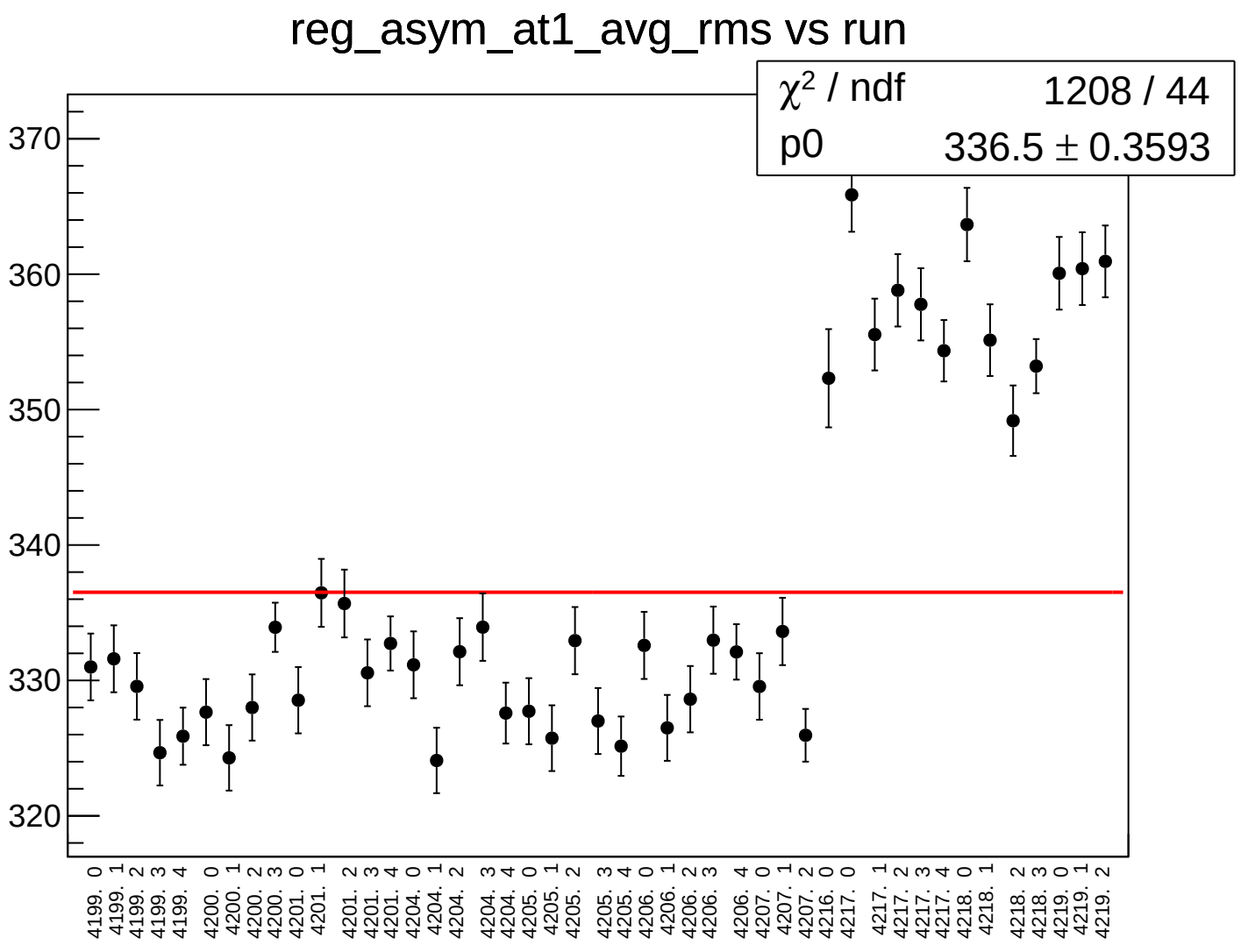

asym_atr_dd_mean vs run
χ² / ndf 45.43 / 44
p0 219.8 ± 1337
30000
20000
10000
0
−10000
−20000
−30000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −9.011
Std Dev 61.14
2
1
0
−1
−2
−3

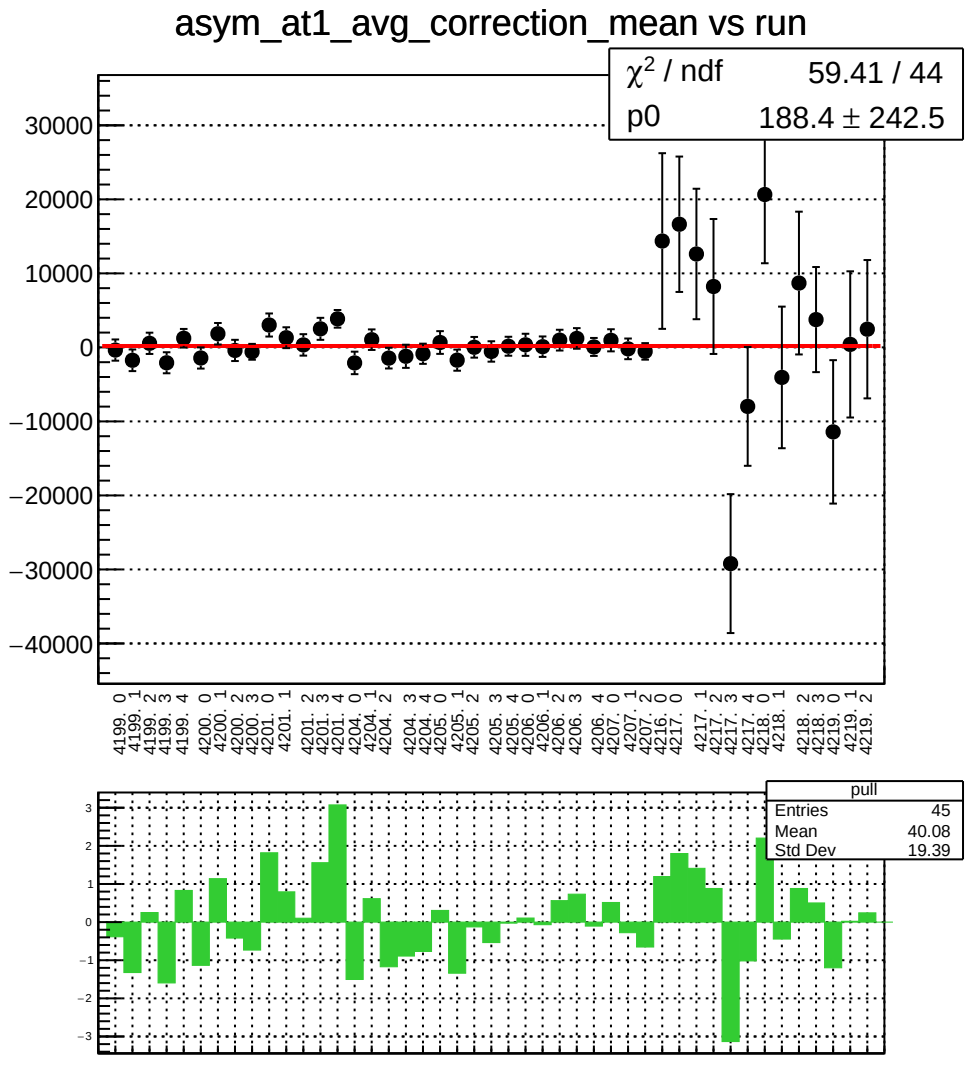

pull1D
Entries 45
Mean −0.008626
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

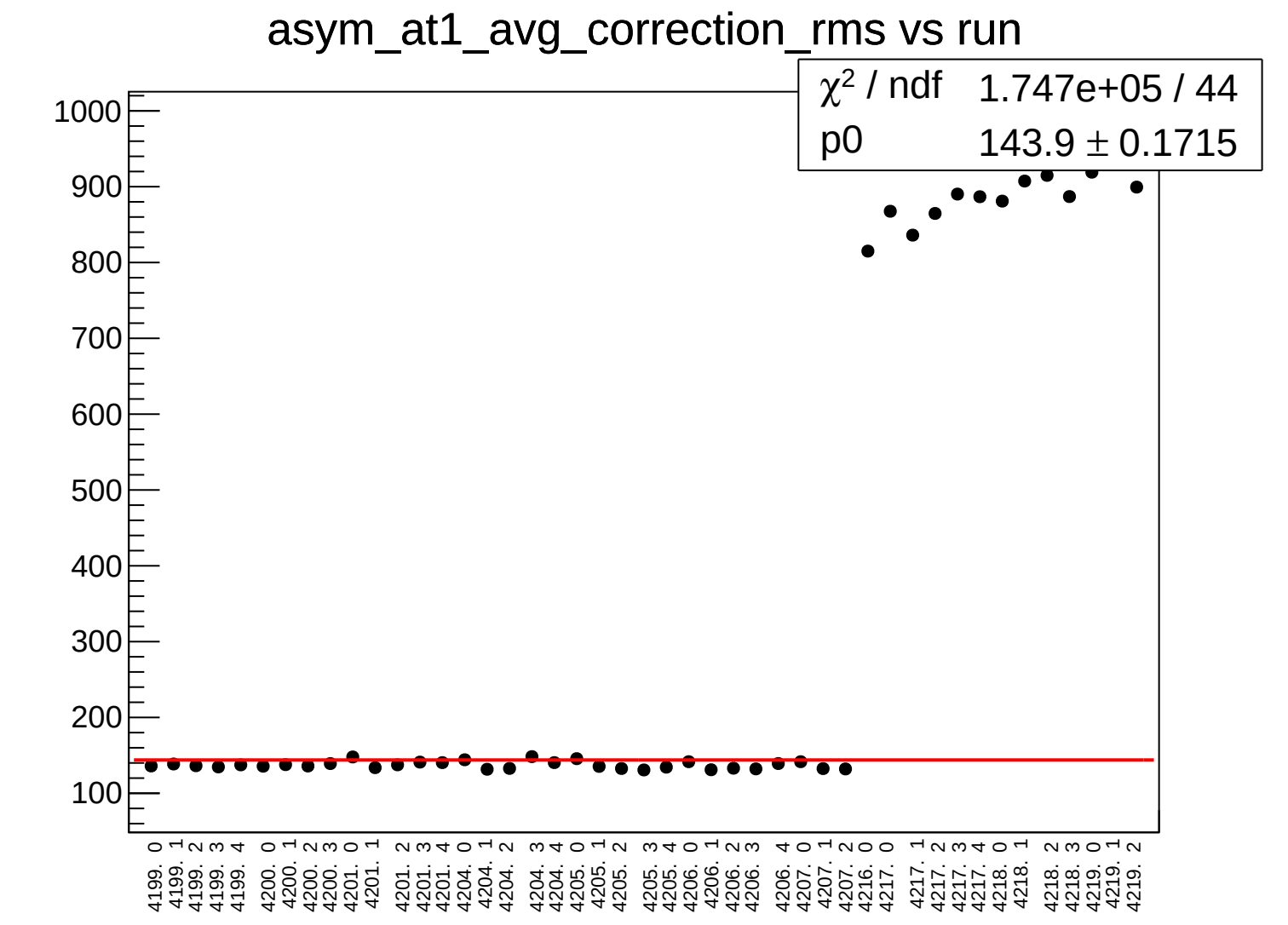

asym_atr_dd_rms vs run
χ² / ndf 1345 / 44
p0 885.5 ± 0.9454
940
920
900
880
860
840
820
800
780
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

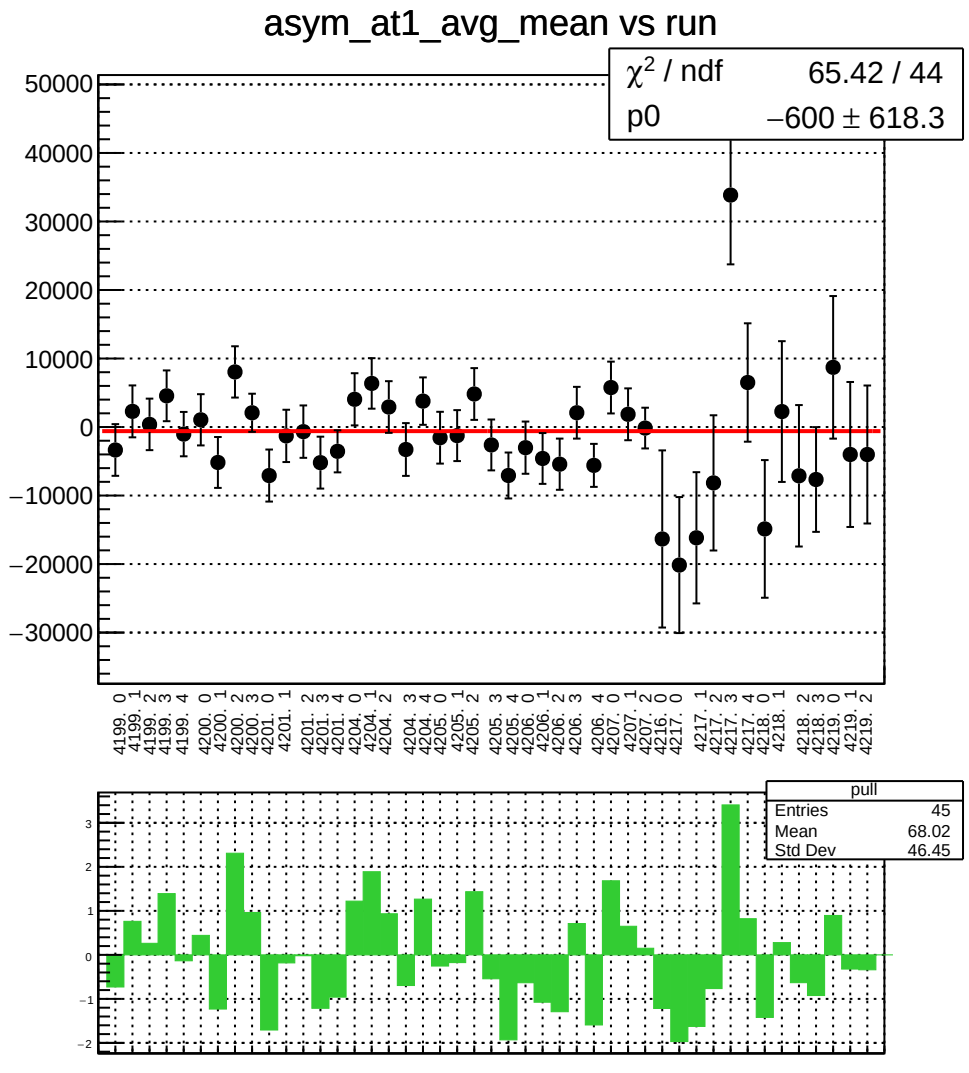

reg_asym_at1_avg_mean vs run
χ² / ndf 47.53 / 44
p0 −470.2 ± 508.1
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −213.6
Std Dev 236
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

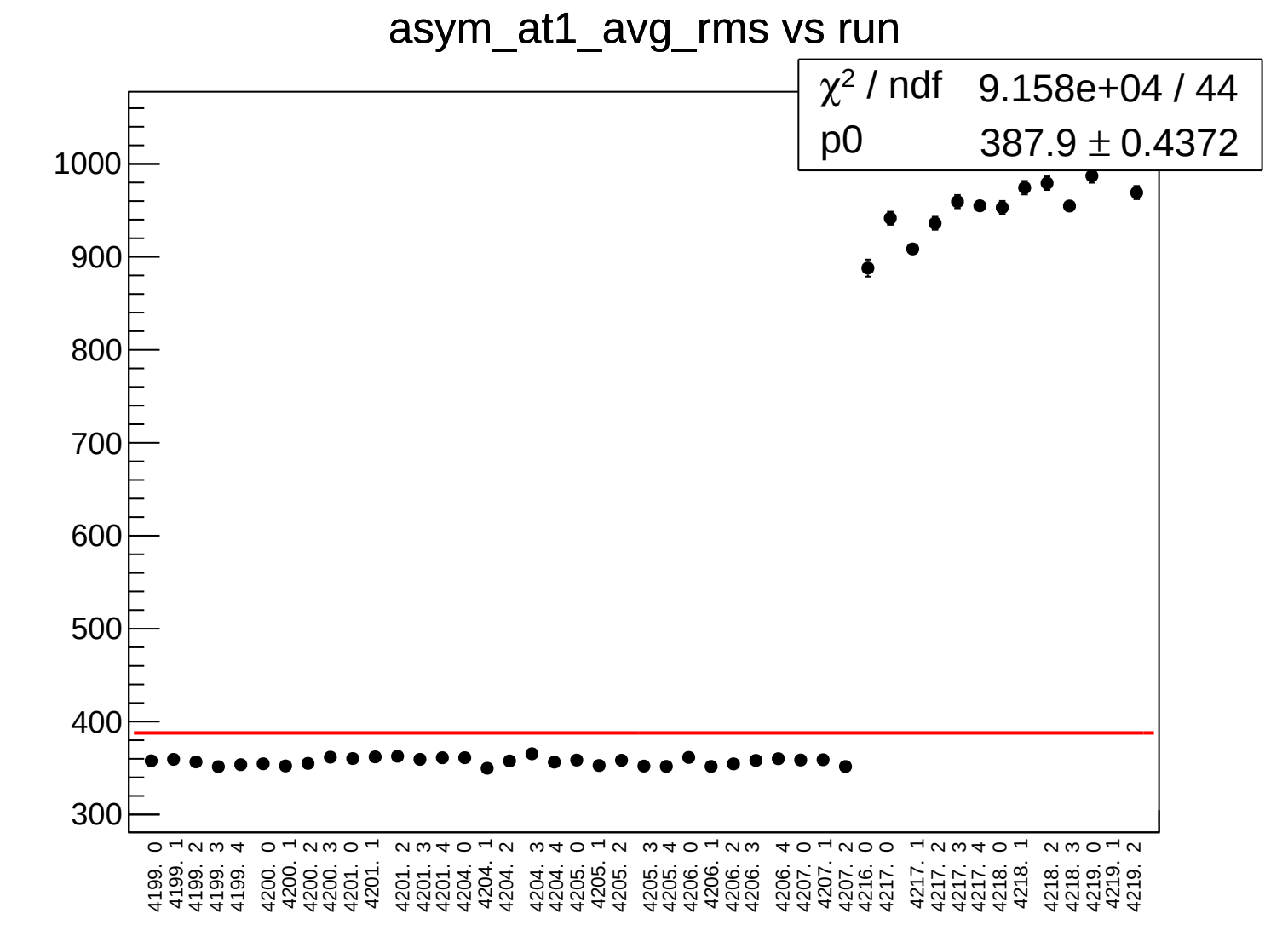

pull1D
Entries 45
Mean 0.008157
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

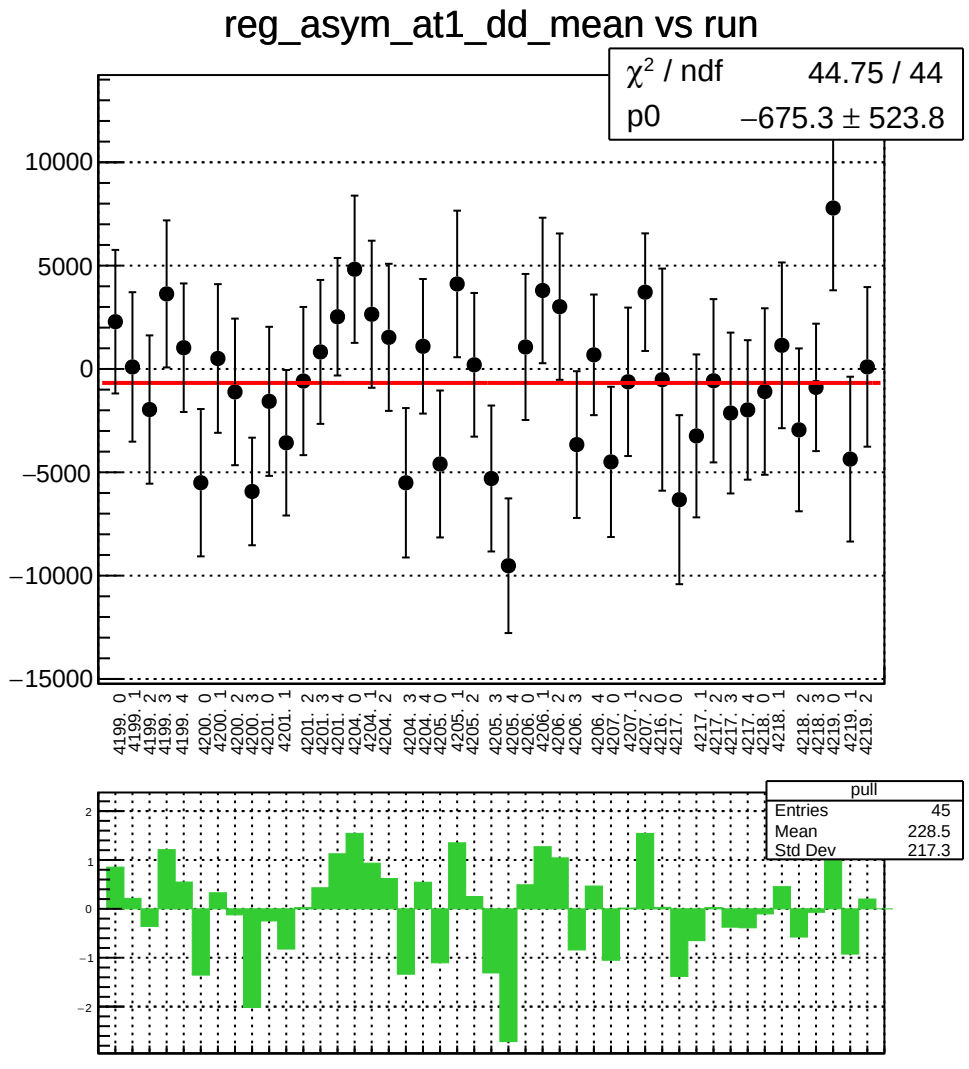

reg_asym_at1_avg_rms vs run
χ² / ndf 1208 / 44
p0 336.5 ± 0.3593
370
360
350
340
330
320
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

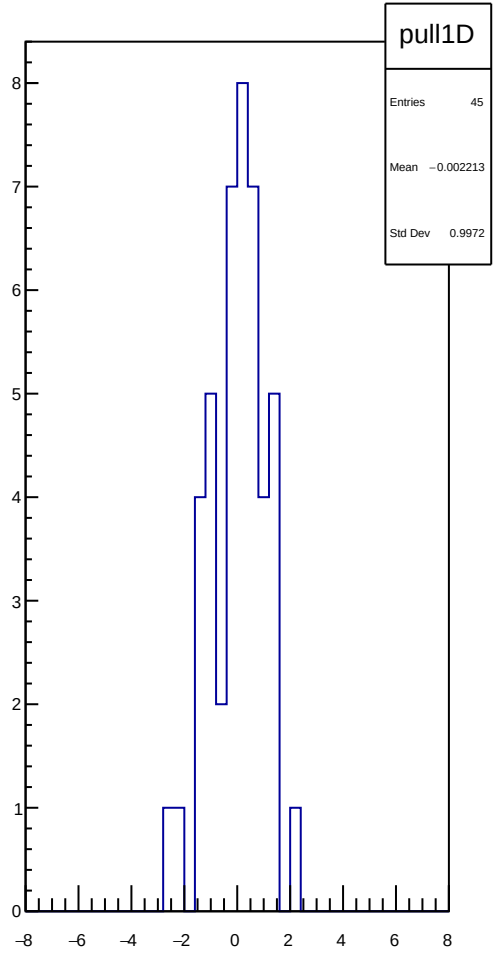

asym_at1_avg_correction_mean vs run
χ² / ndf 59.41 / 44
p0 188.4 ± 242.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 40.08
Std Dev 19.39
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.06005
Std Dev 1.147
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

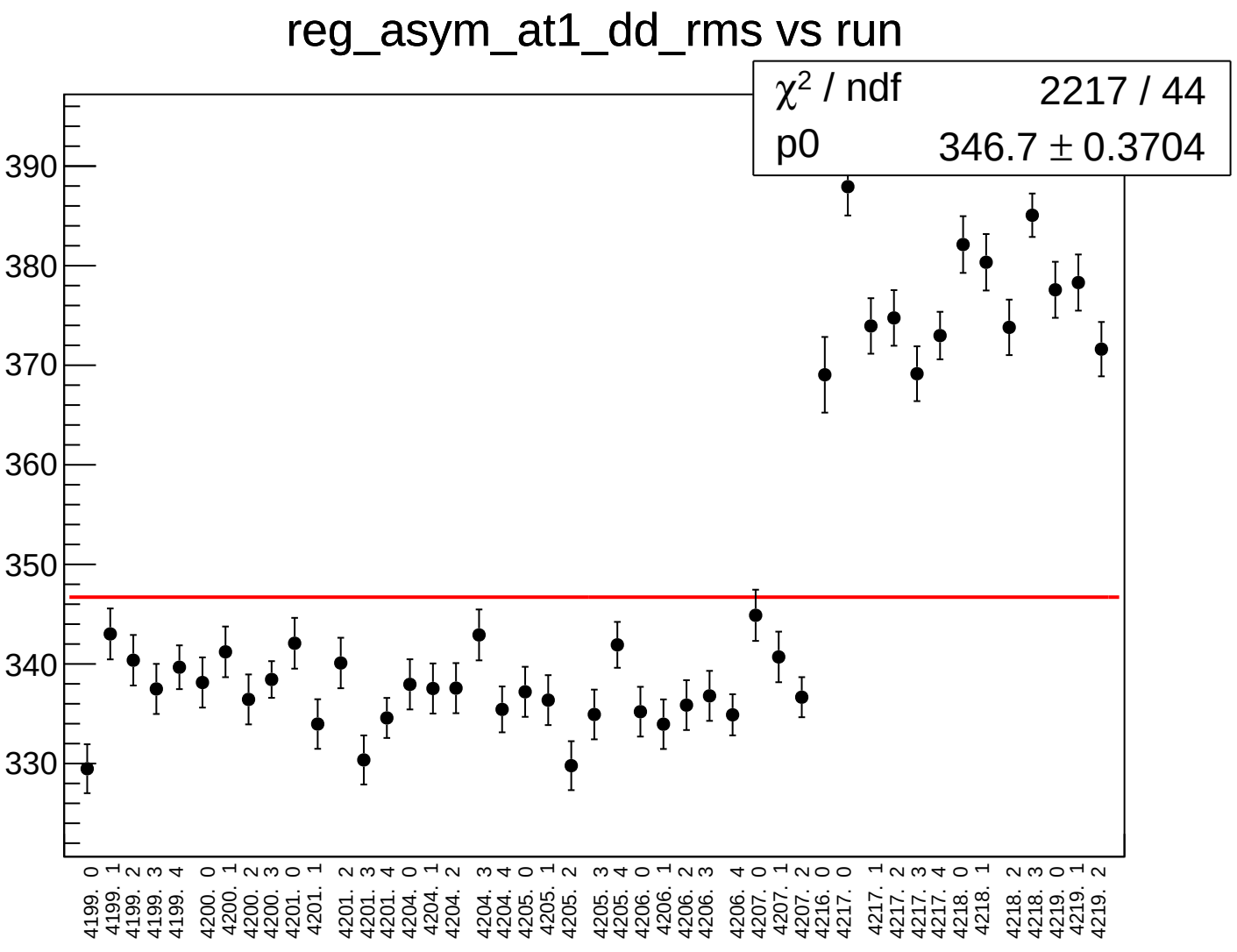

asym_at1_avg_correction_rms vs run
χ² / ndf 1.747e+05 / 44
p0 143.9 ± 0.1715
1000
900
800
700
600
500
400
300
200
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

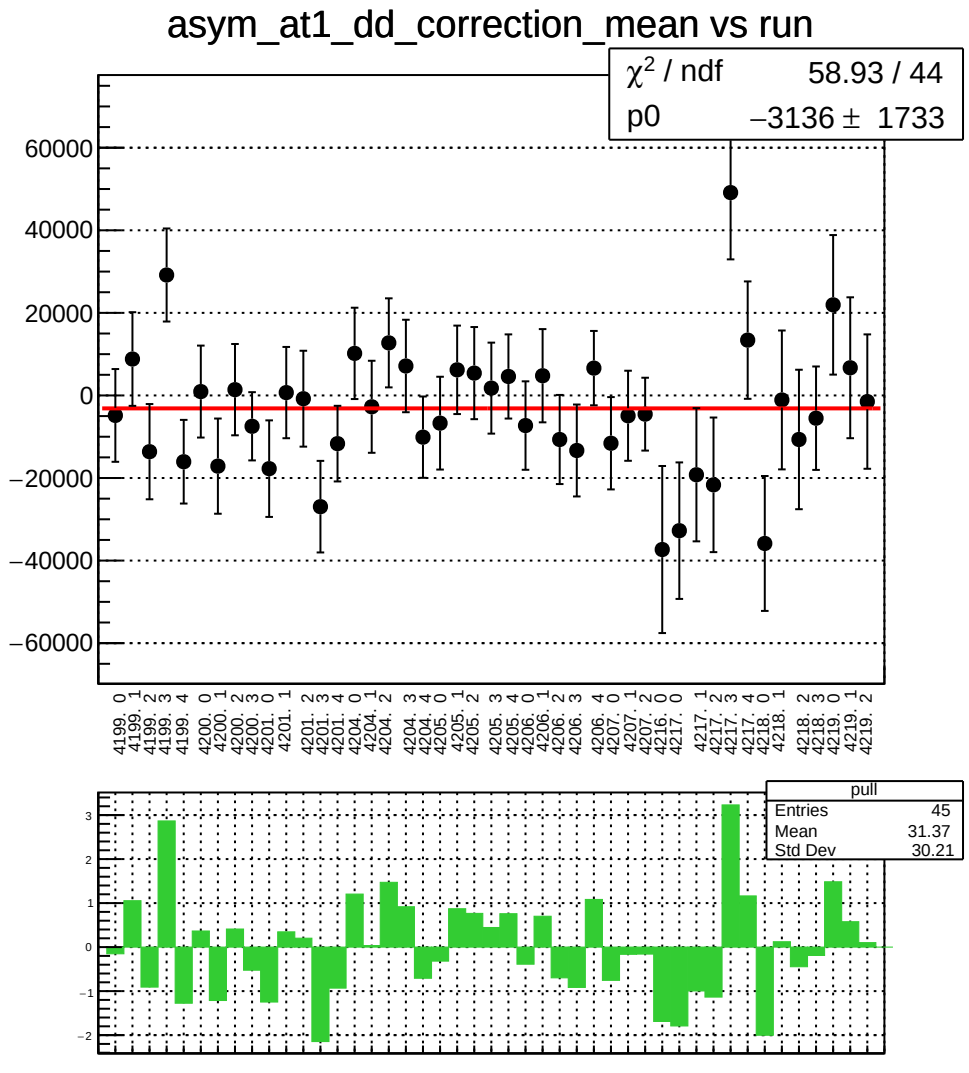

asym_at1_avg_mean vs run
χ² / ndf 65.42 / 44
p0 −600 ± 618.3
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 68.02
Std Dev 46.45
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04689
Std Dev 1.205
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

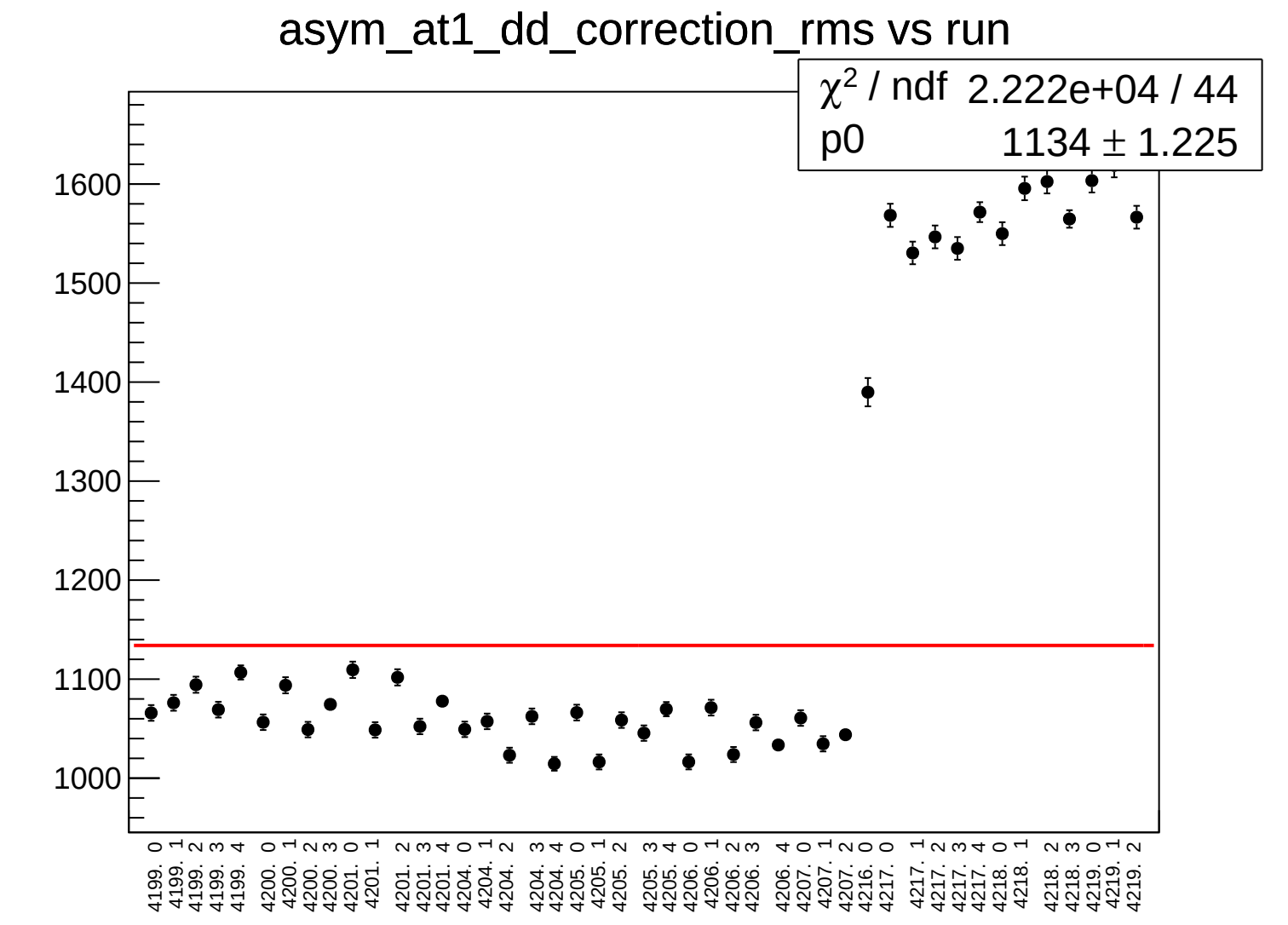

asym_at1_avg_rms vs run
χ² / ndf 9.158e+04 / 44
p0 387.9 ± 0.4372
1000
900
800
700
600
500
400
300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

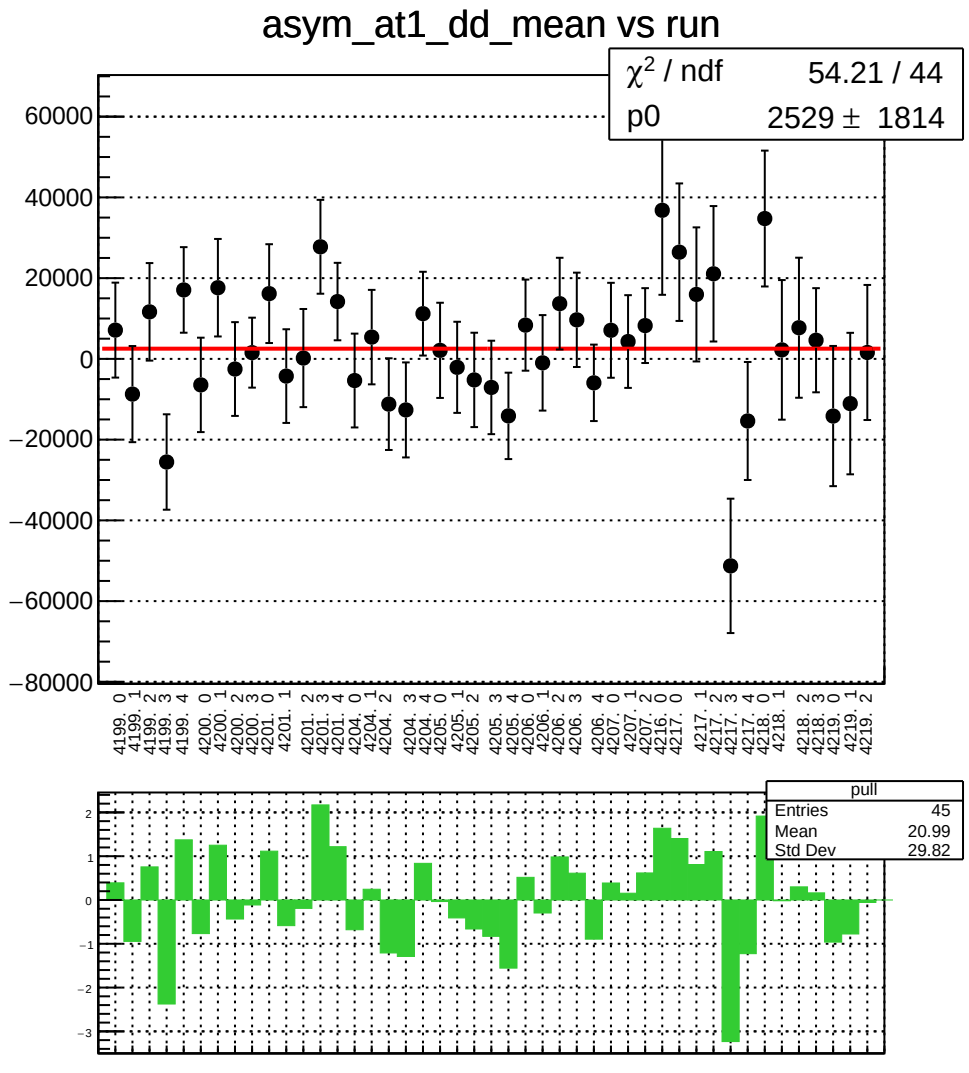

reg_asym_at1_dd_mean vs run
χ² / ndf 44.75 / 44
p0 −675.3 ± 523.8
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 228.5
Std Dev 217.3
2
1
0
−1
−2

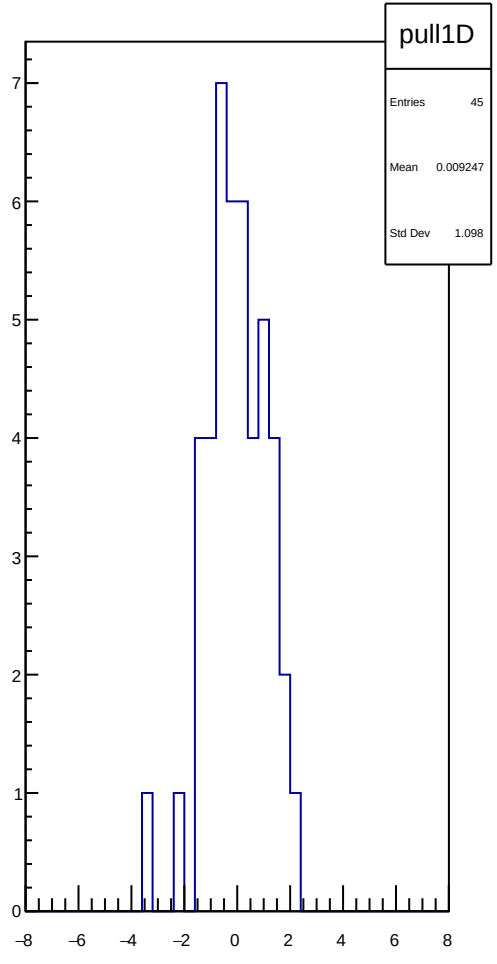

pull1D
Entries 45
Mean −0.002213
Std Dev 0.9972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

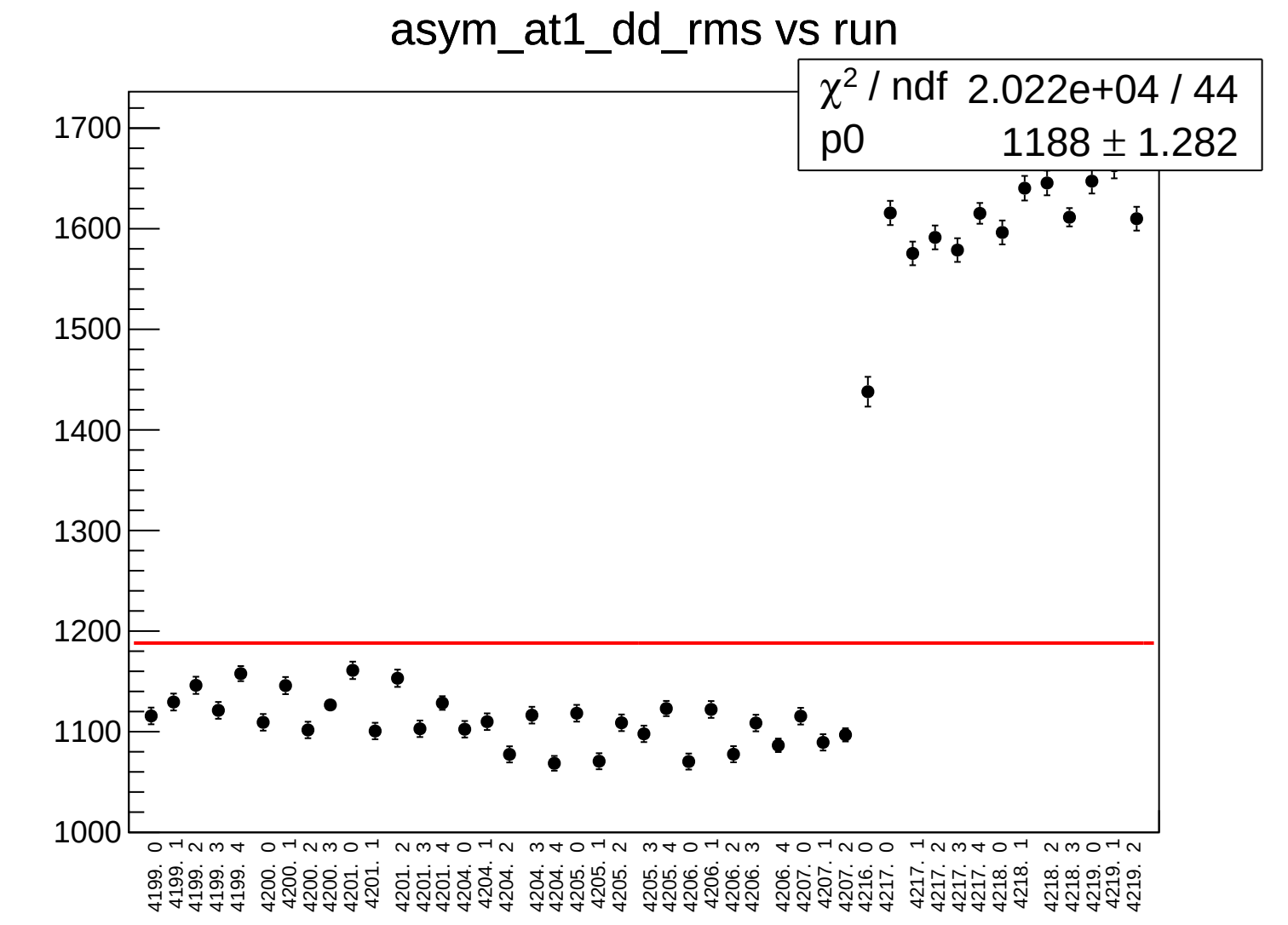

reg_asym_at1_dd_rms vs run
χ² / ndf 2217 / 44
p0 346.7 ± 0.3704
390
380
370
360
350
340
330
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

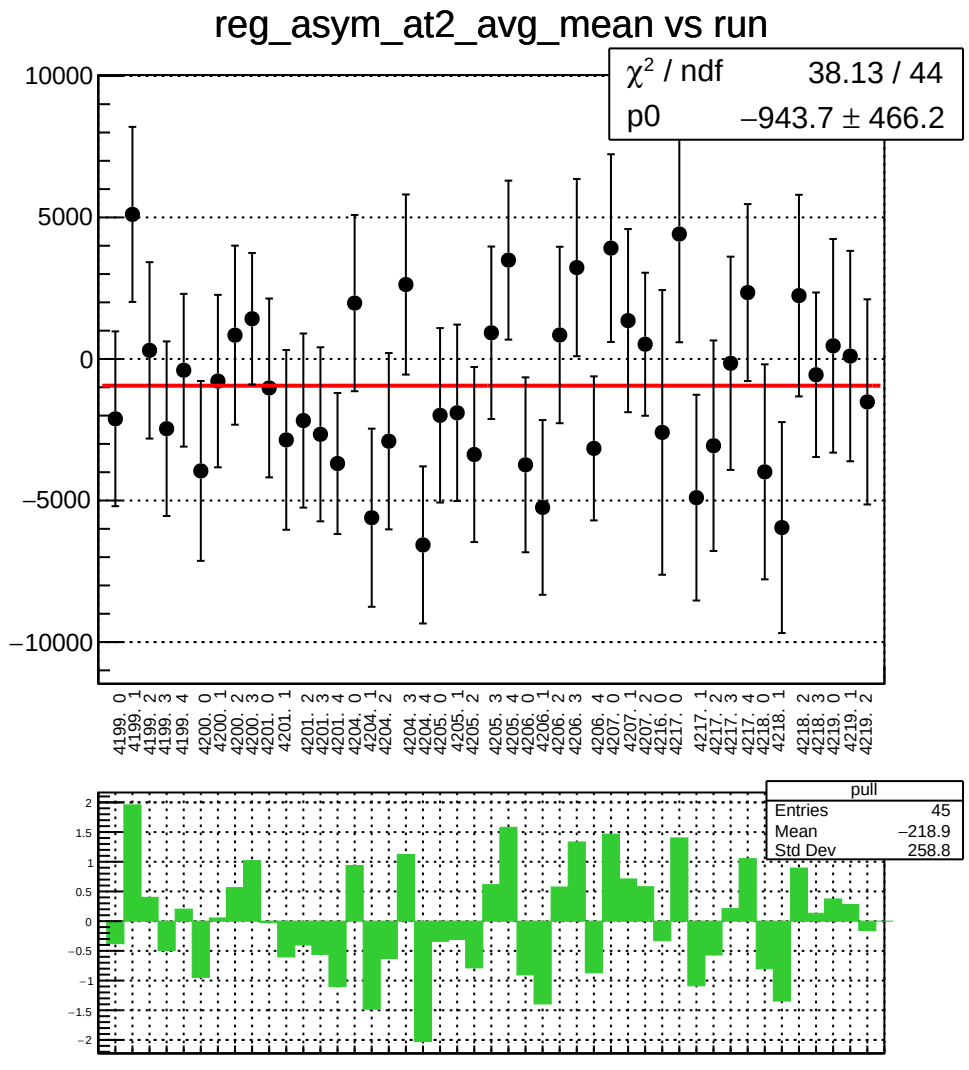

asym_at1_dd_correction_mean vs run
χ² / ndf 58.93 / 44
p0 −3136 ± 1733
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 31.37
Std Dev 30.21
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01287
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

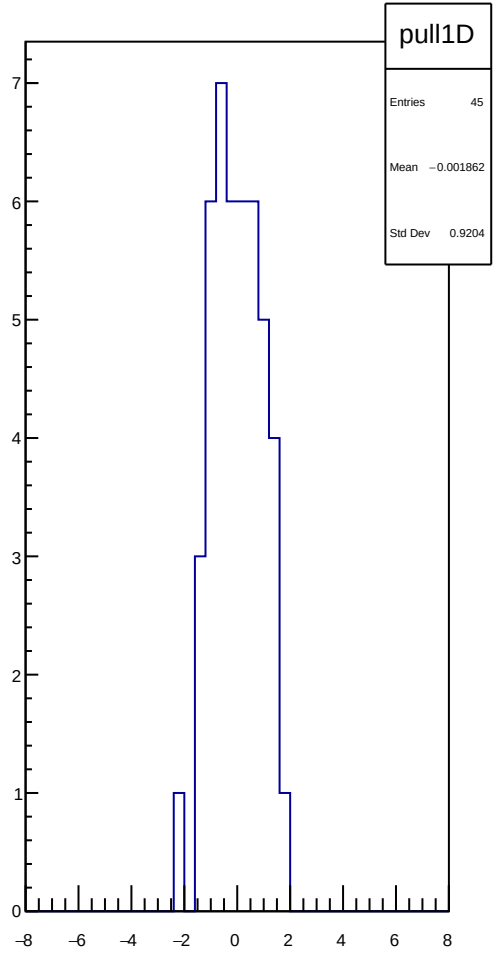

asym_at1_dd_correction_rms vs run
χ² / ndf 2.222e+04 / 44
p0 1134 ± 1.225
1600
1500
1400
1300
1200
1100
1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

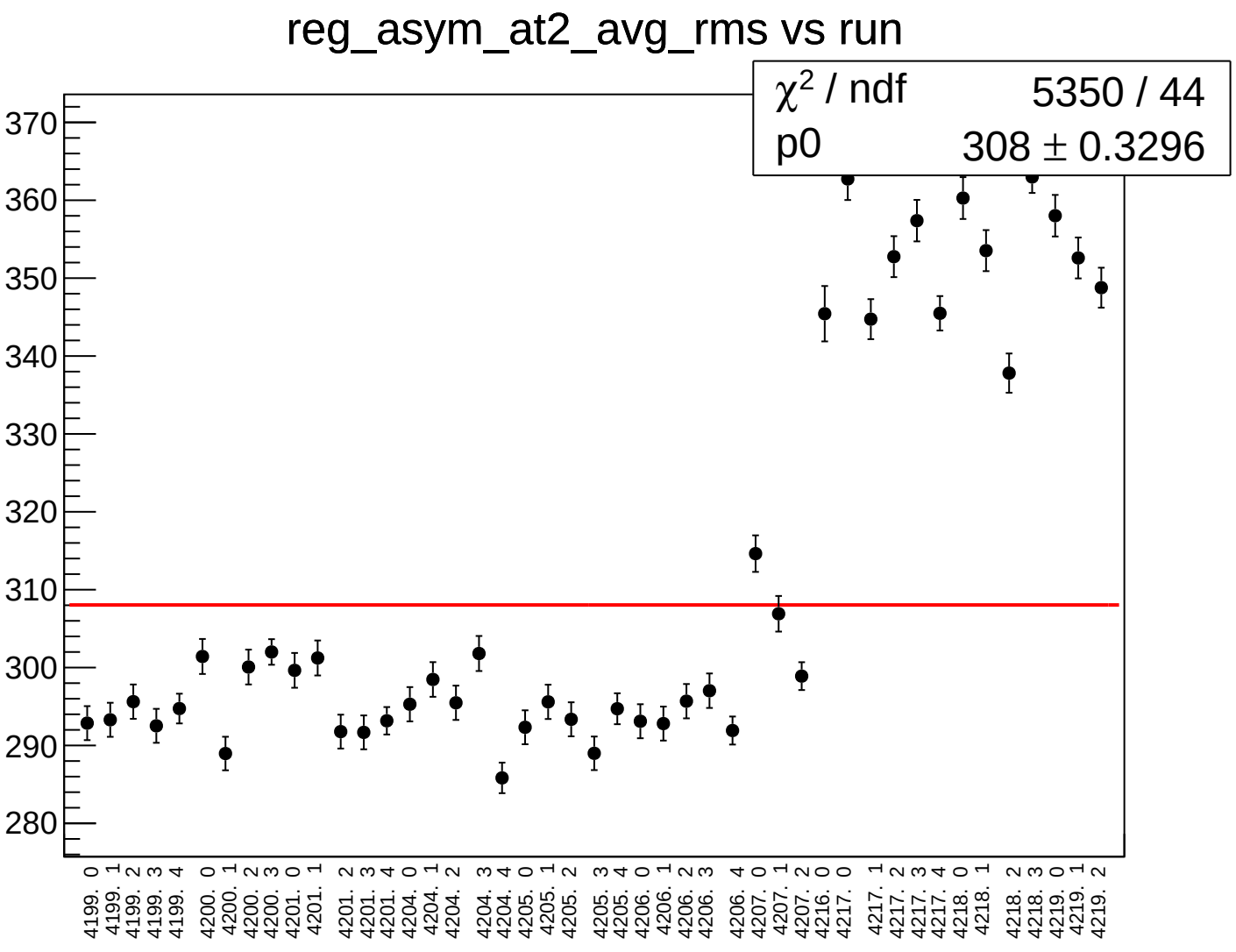

asym_at1_dd_mean vs run
χ² / ndf 54.21 / 44
p0 2529 ± 1814
60000
40000
20000
0
−20000
−40000
−60000
−80000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 20.99
Std Dev 29.82
2
1
0
−1
−2
−3

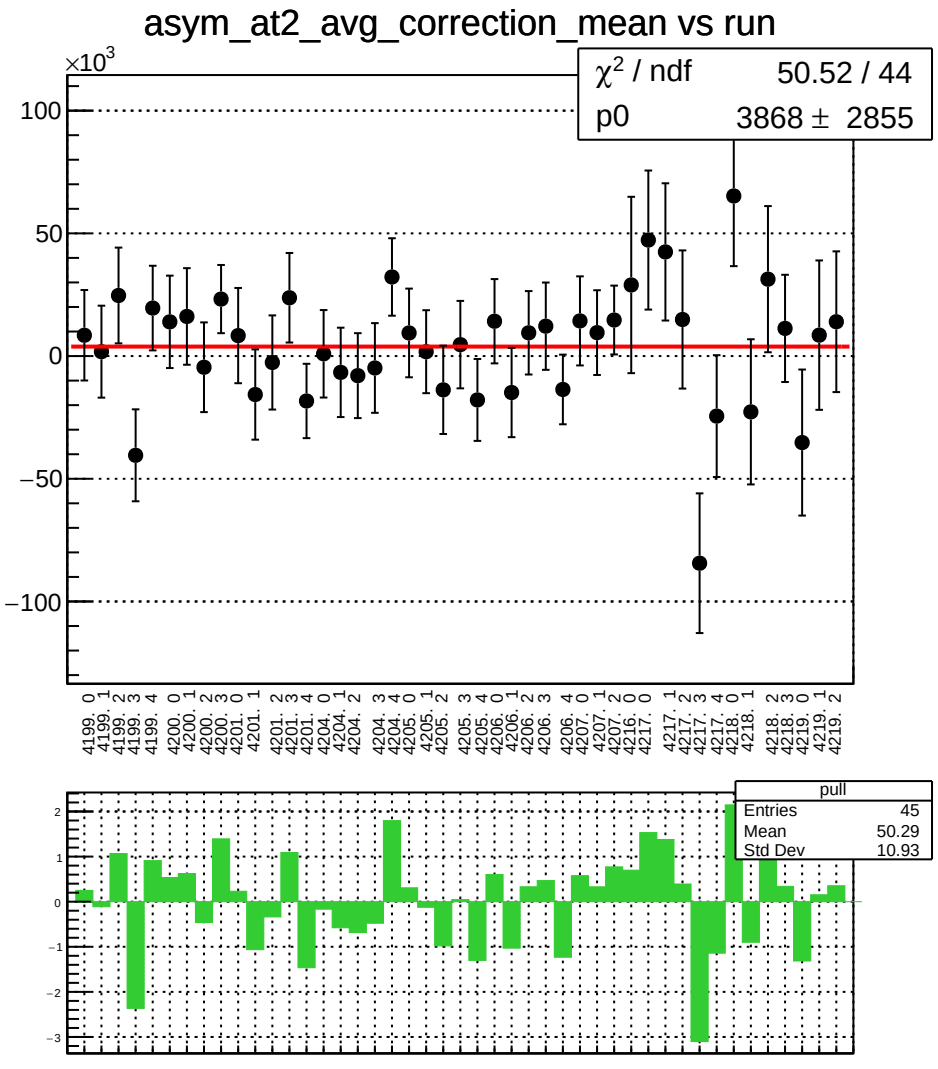

pull1D
Entries 45
Mean 0.009247
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

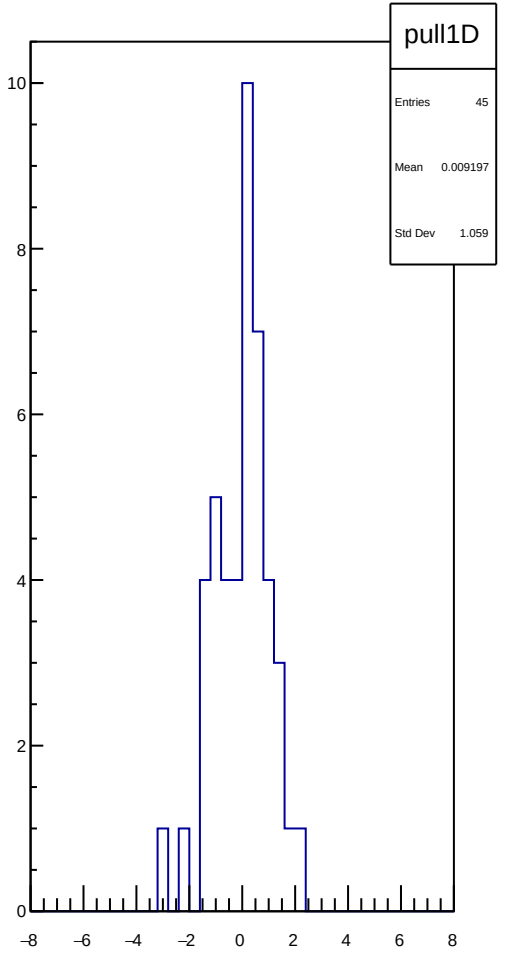

asym_at1_dd_rms vs run
χ² / ndf 2.022e+04 / 44
p0 1188 ± 1.282
1700
1600
1500
1400
1300
1200
1100
1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

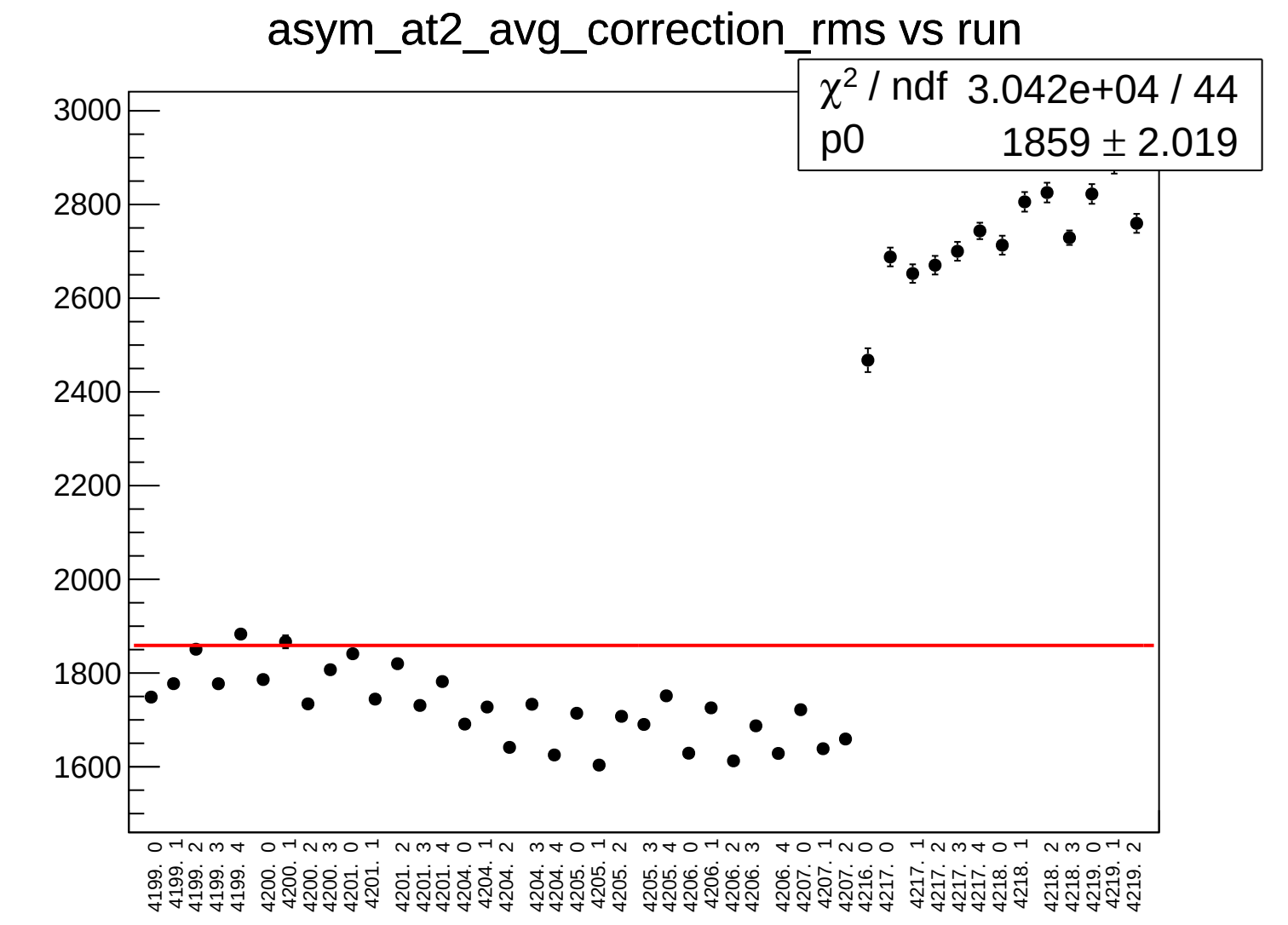

reg_asym_at2_avg_mean vs run
χ² / ndf 38.13 / 44
p0 −943.7 ± 466.2
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −218.9
Std Dev 258.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

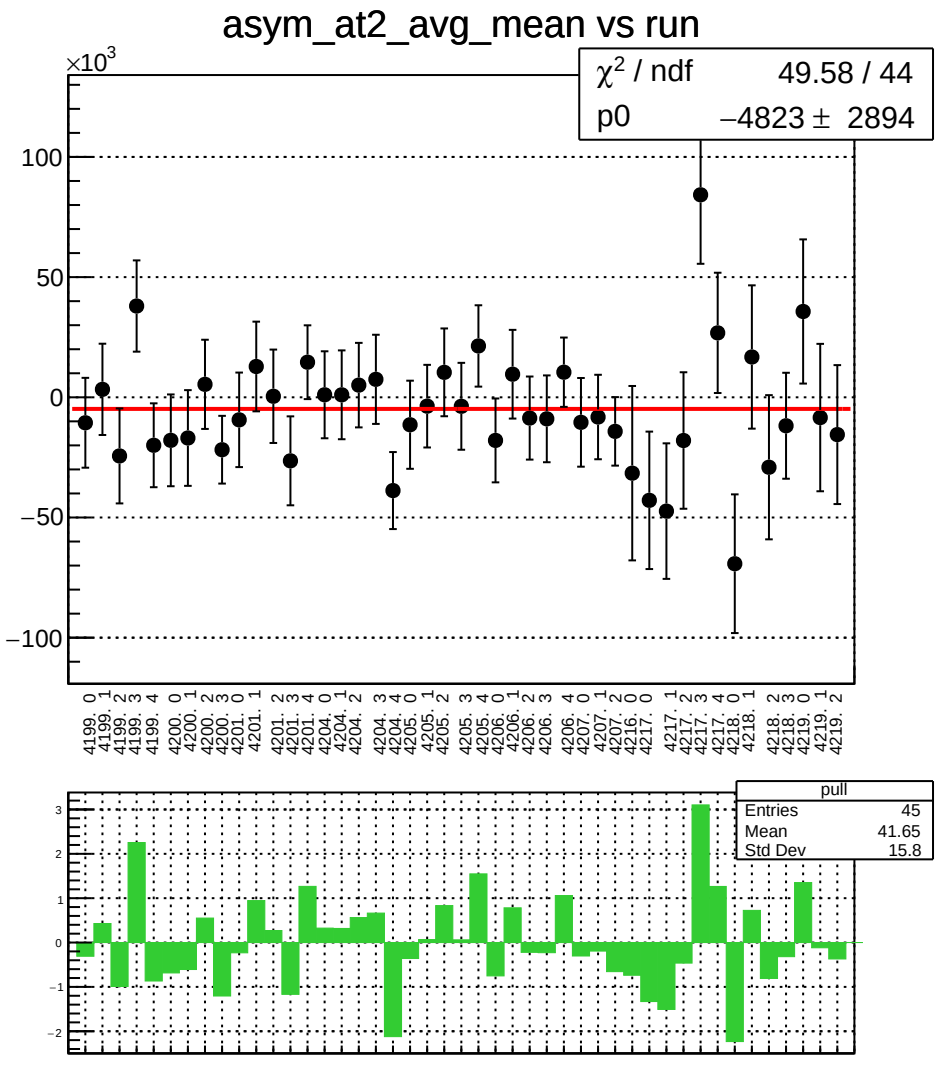

pull1D
Entries 45
Mean −0.001862
Std Dev 0.9204
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

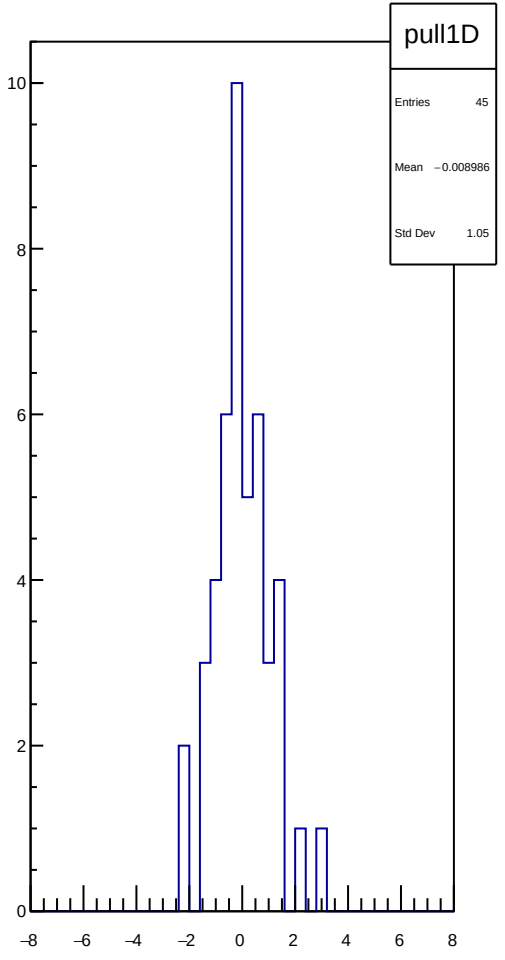

reg_asym_at2_avg_rms vs run
χ² / ndf 5350 / 44
p0 308 ± 0.3296
370
360
350
340
330
320
310
300
290
280
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

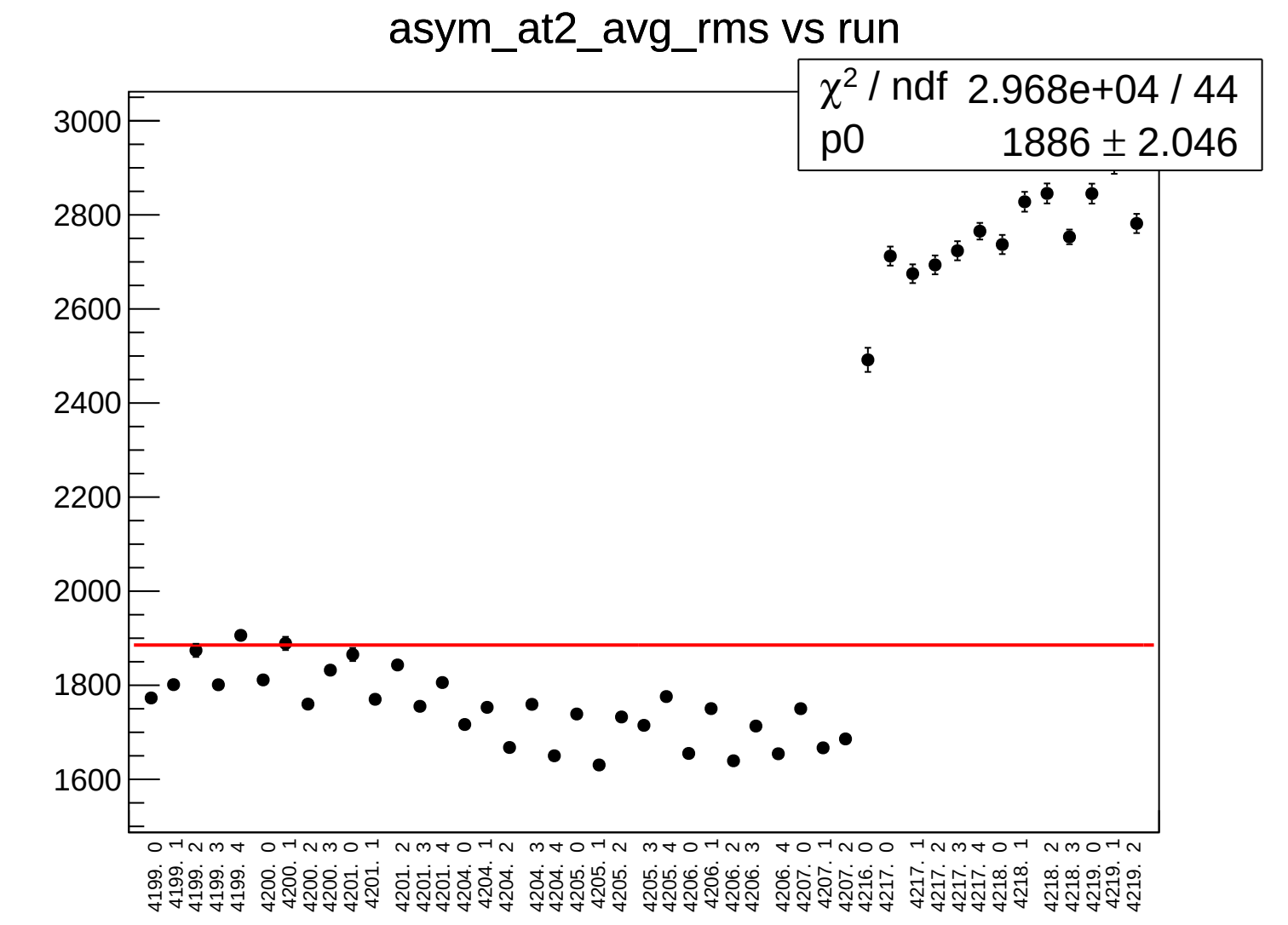

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 50.52 / 44
p0 3868 ± 2855
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 50.29
Std Dev 10.93
2
1
0
−1
−2
−3

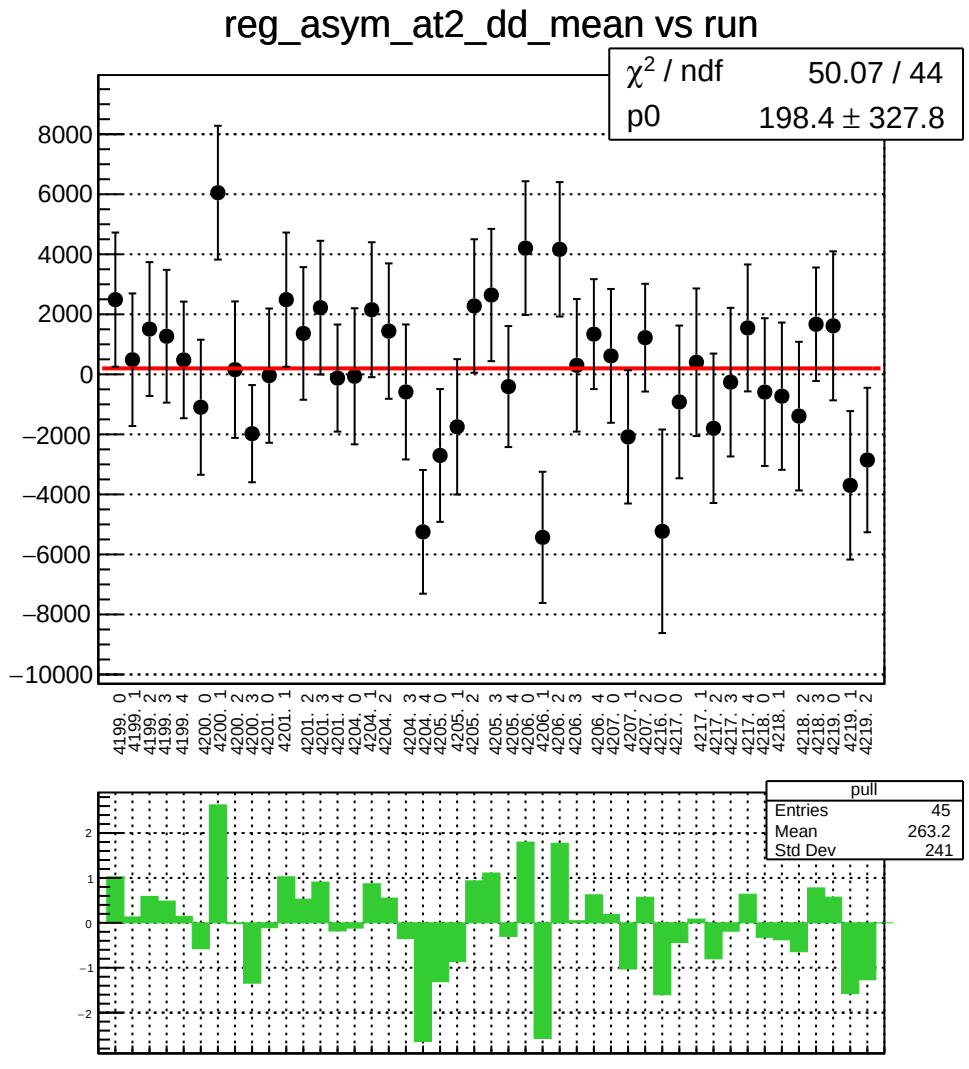

pull1D
Entries 45
Mean 0.009197
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

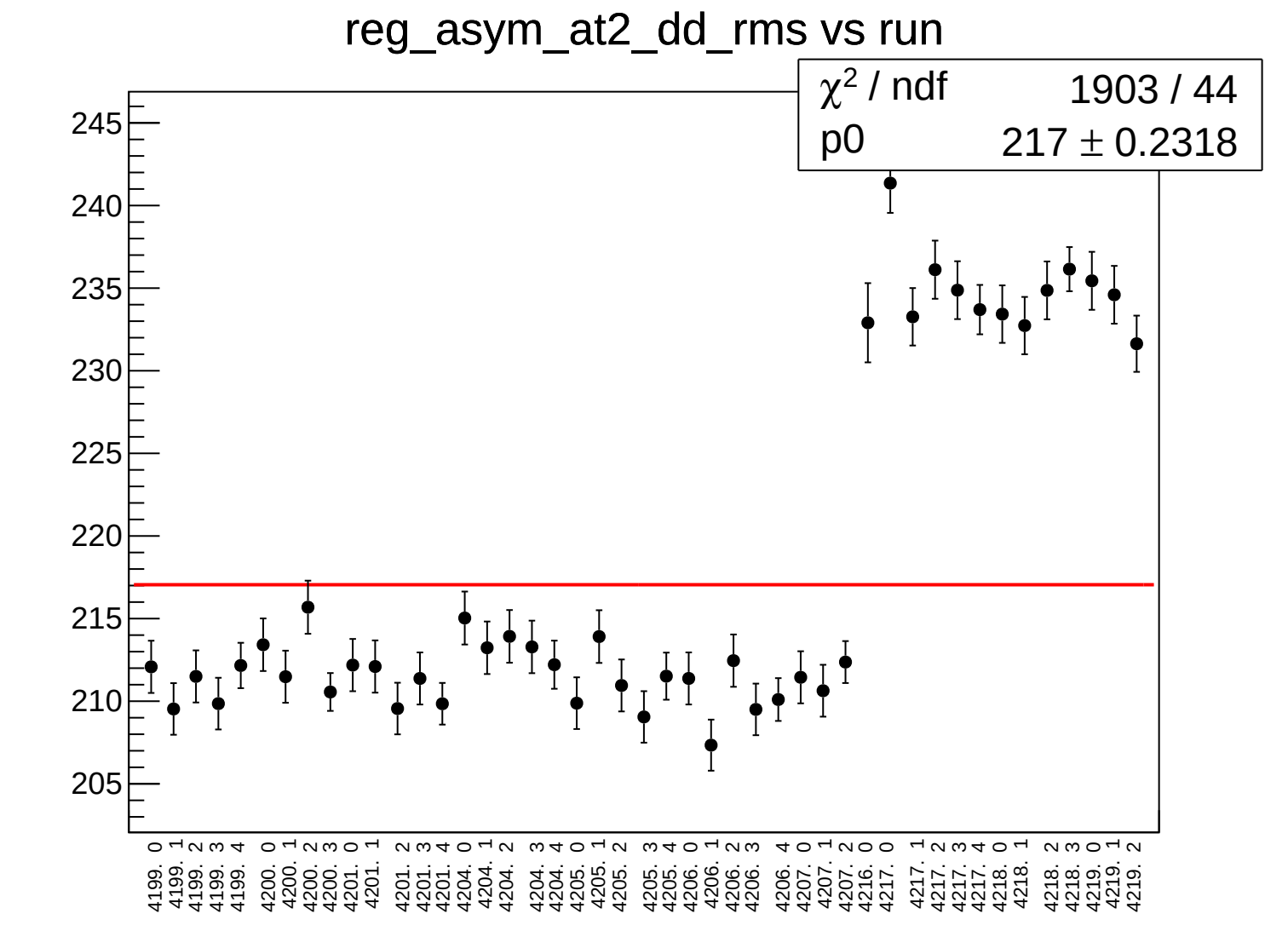

asym_at2_avg_correction_rms vs run
χ² / ndf 3.042e+04 / 44
p0 1859 ± 2.019
3000
2800
2600
2400
2200
2000
1800
1600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

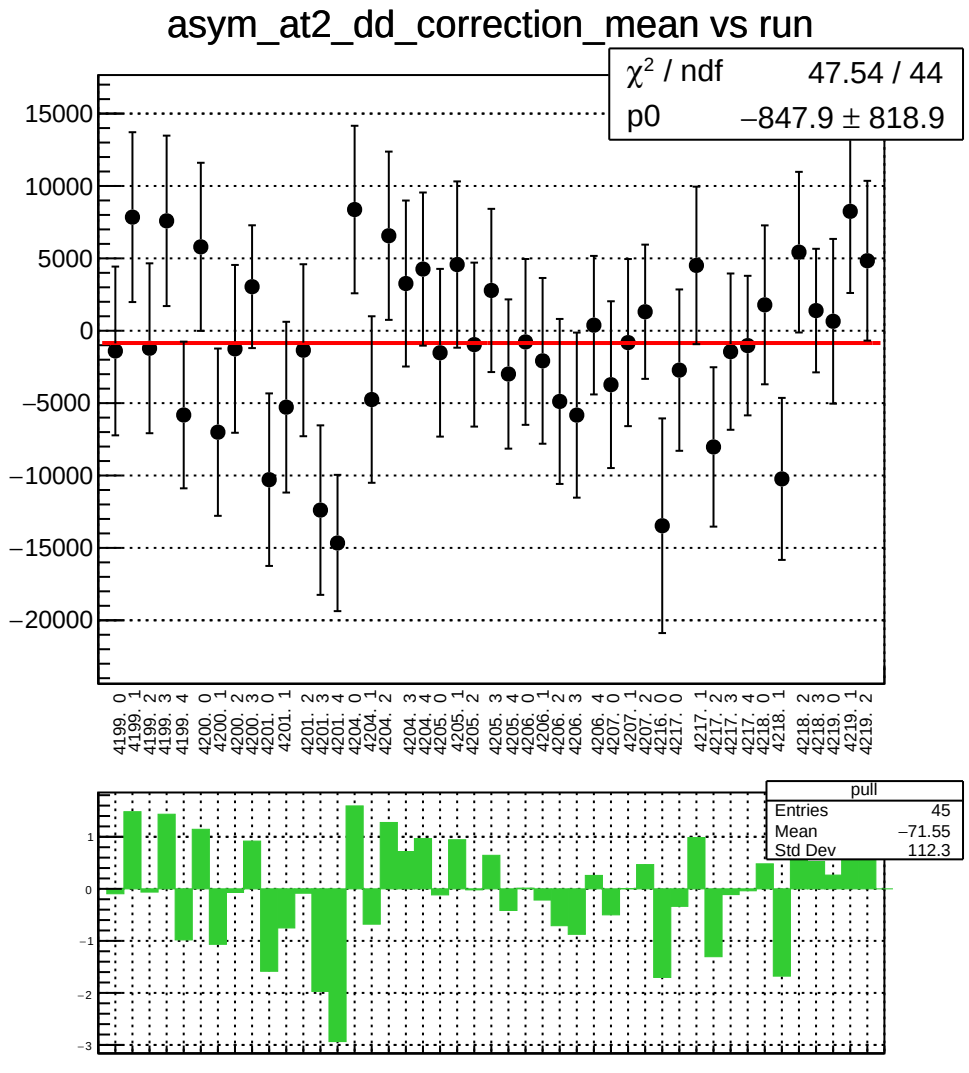

asym_at2_avg_mean vs run
×10^3
χ² / ndf 49.58 / 44
p0 −4823 ± 2894
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 41.65
Std Dev 15.8
3
2
1
0
−1
−2

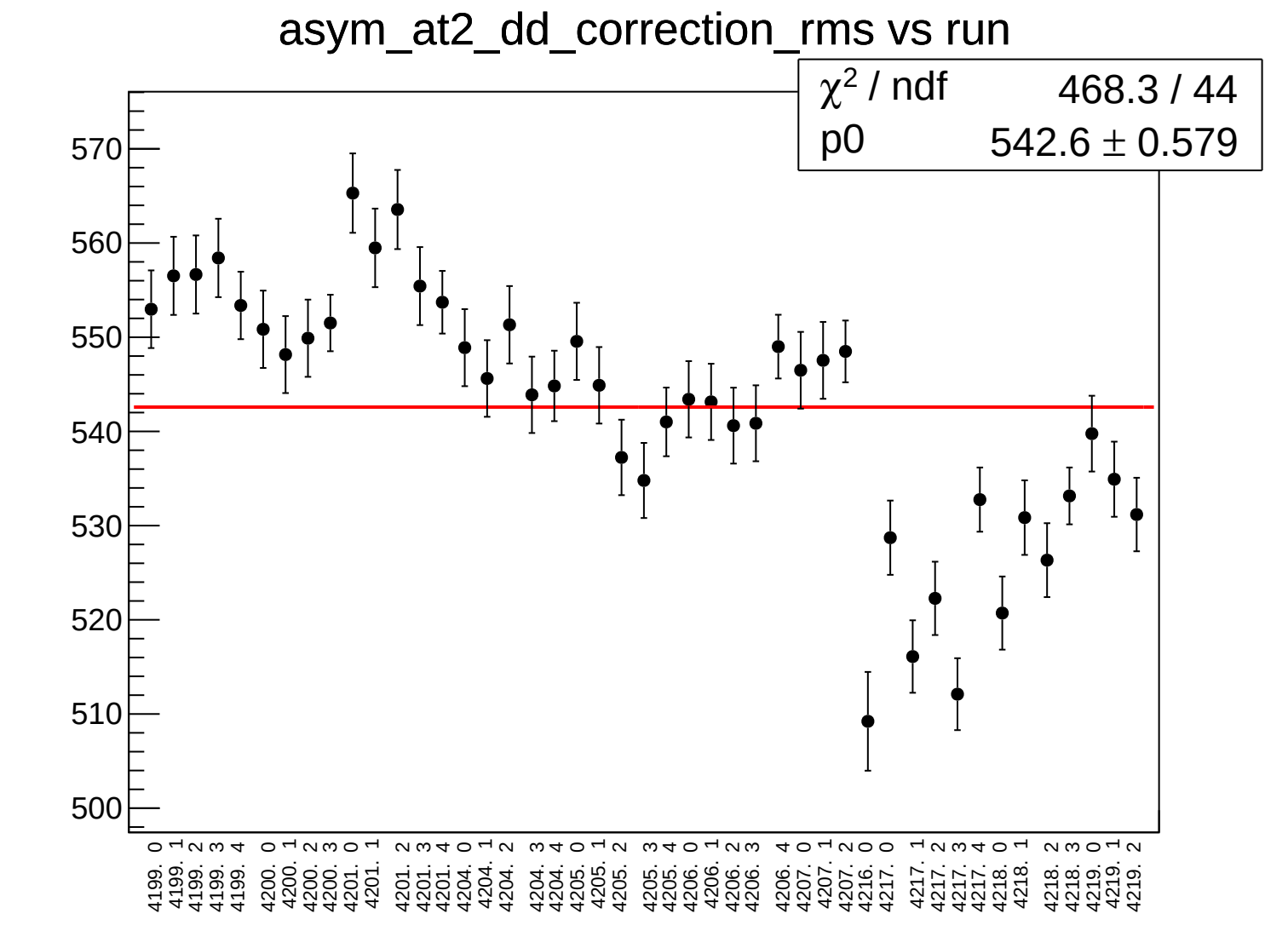

pull1D
Entries 45
Mean −0.008986
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

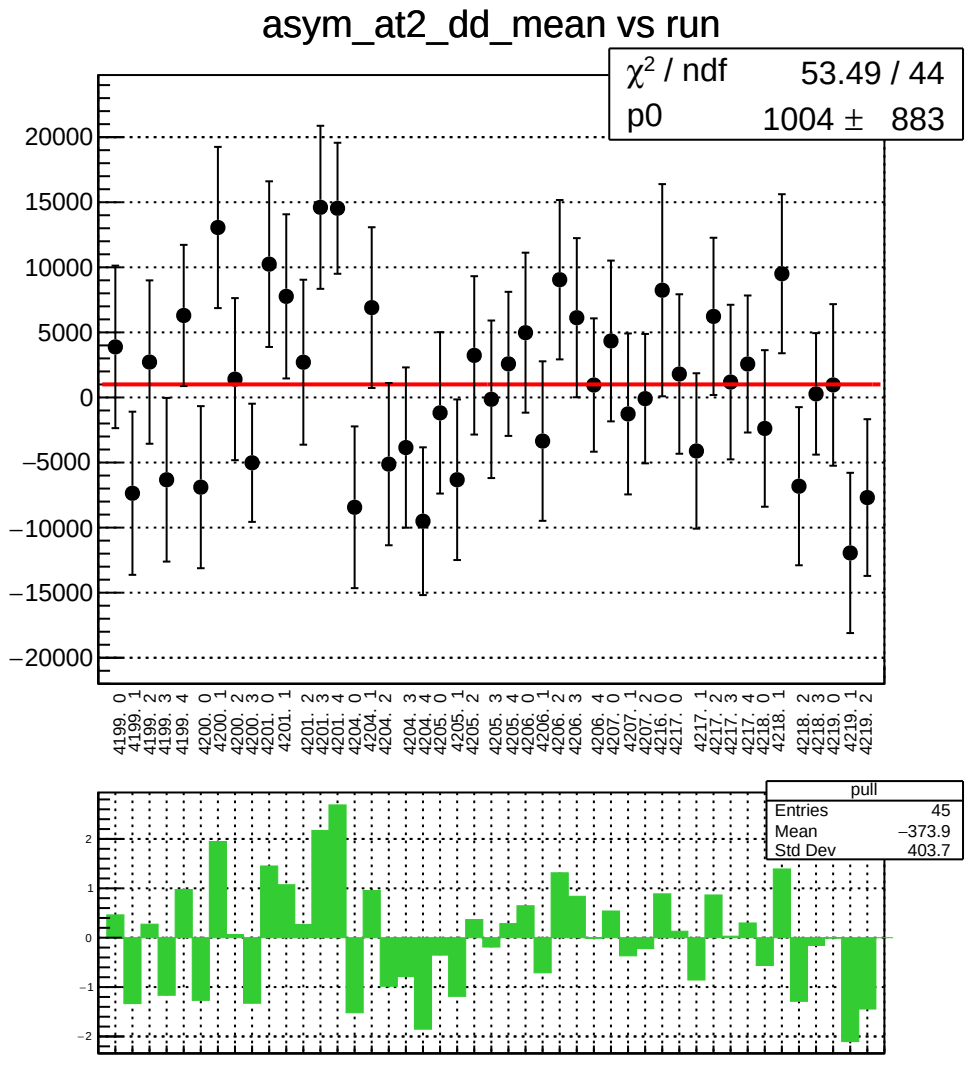

asym_at2_avg_rms vs run
χ² / ndf 2.968e+04 / 44
p0 1886 ± 2.046
3000
2800
2600
2400
2200
2000
1800
1600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

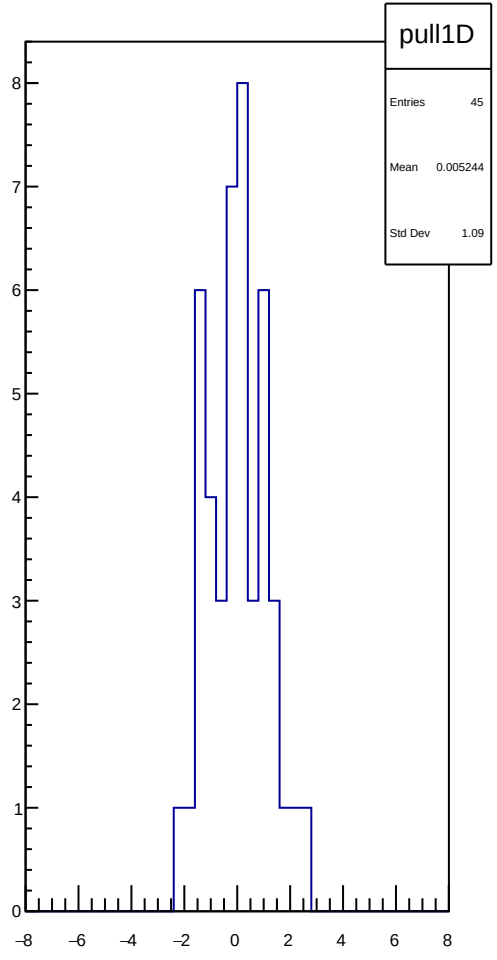

reg_asym_at2_dd_mean vs run
χ² / ndf 50.07 / 44
p0 198.4 ± 327.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 263.2
Std Dev 241
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01421
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

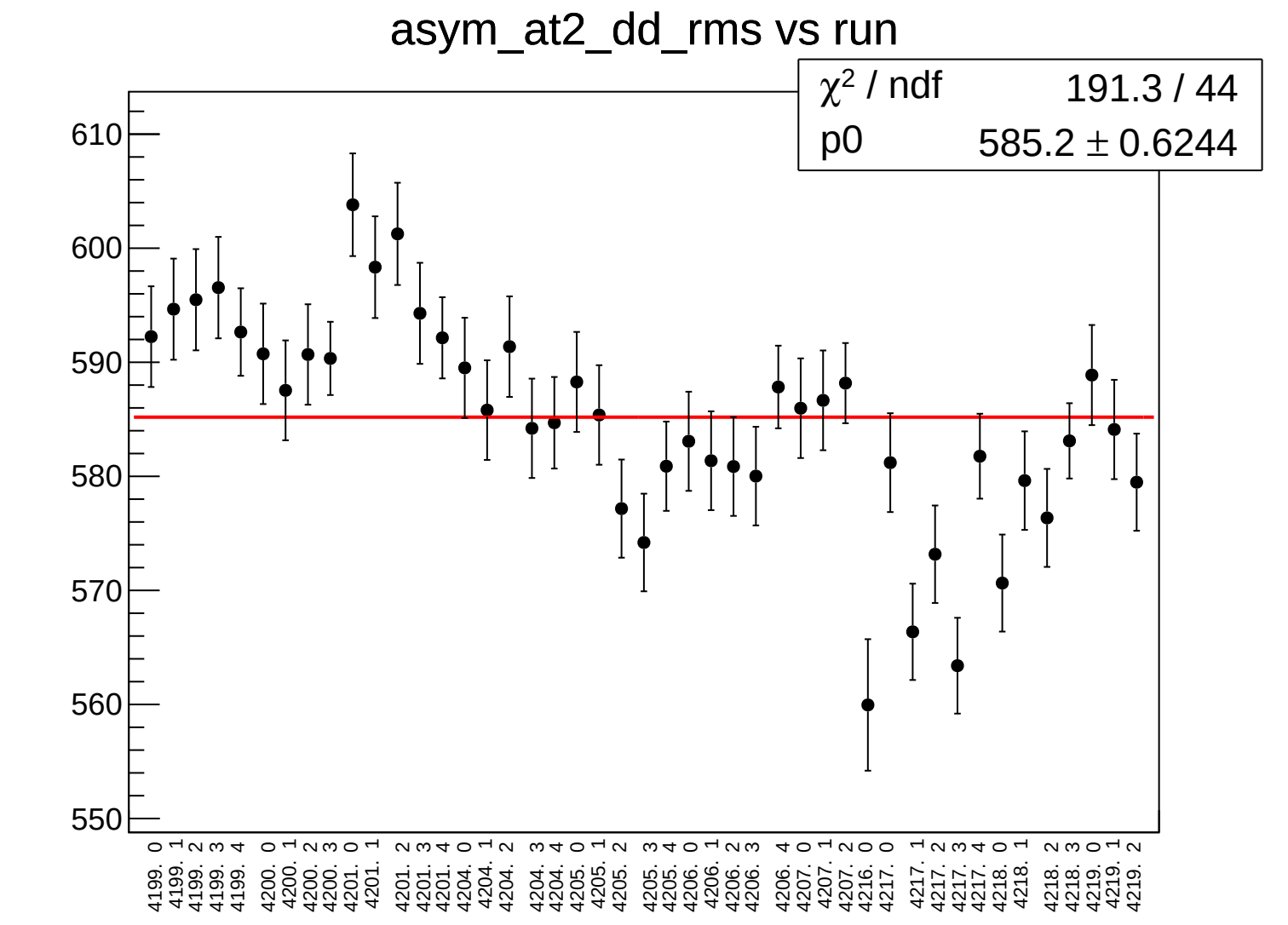

reg_asym_at2_dd_rms vs run
χ² / ndf 1903 / 44
p0 217 ± 0.2318
245
240
235
230
225
220
215
210
205
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

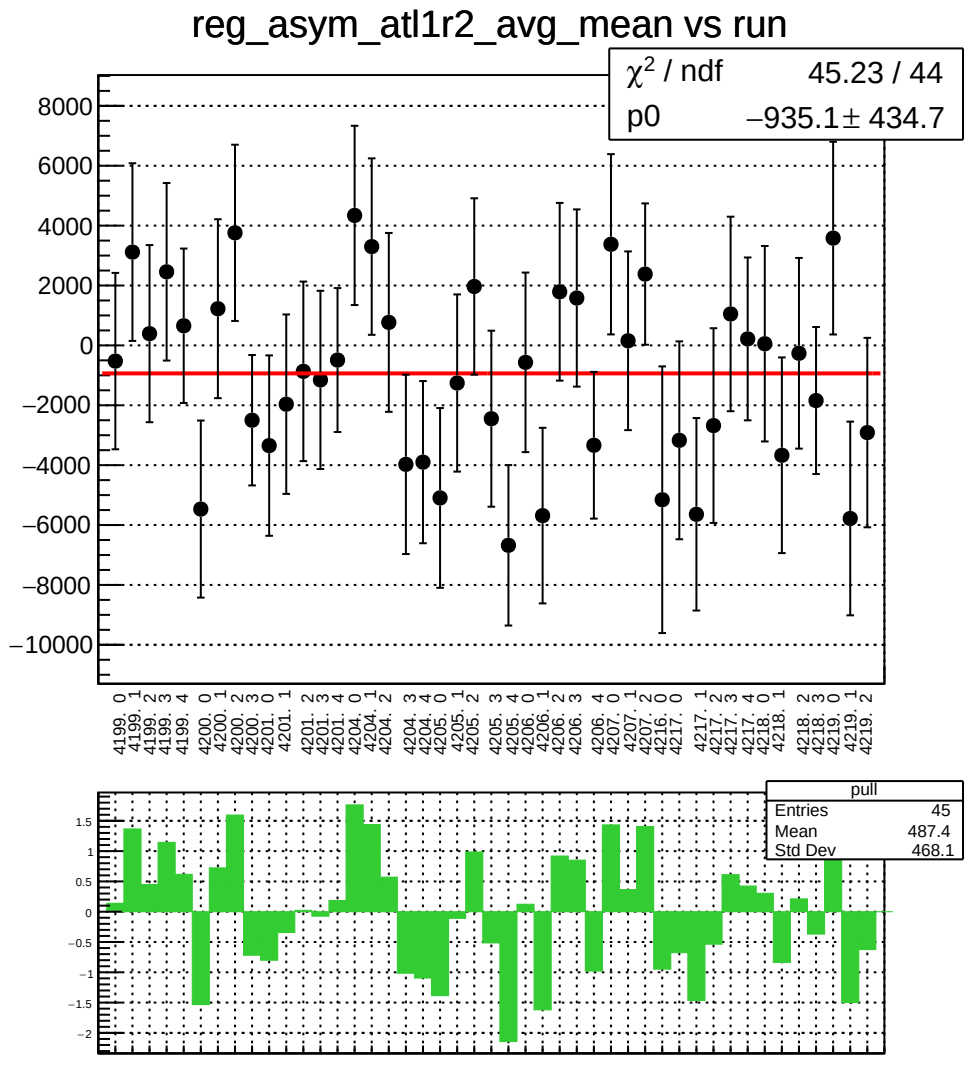

asym_at2_dd_correction_mean vs run
χ² / ndf 47.54 / 44
p0 −847.9 ± 818.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −71.55
Std Dev 112.3
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.008949
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

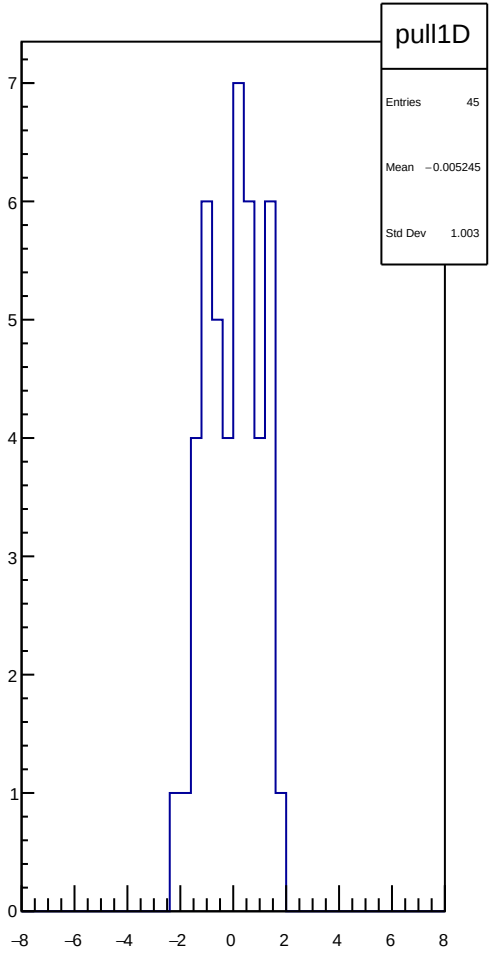

asym_at2_dd_correction_rms vs run
χ² / ndf 468.3 / 44
p0 542.6 ± 0.579
570
560
550
540
530
520
510
500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

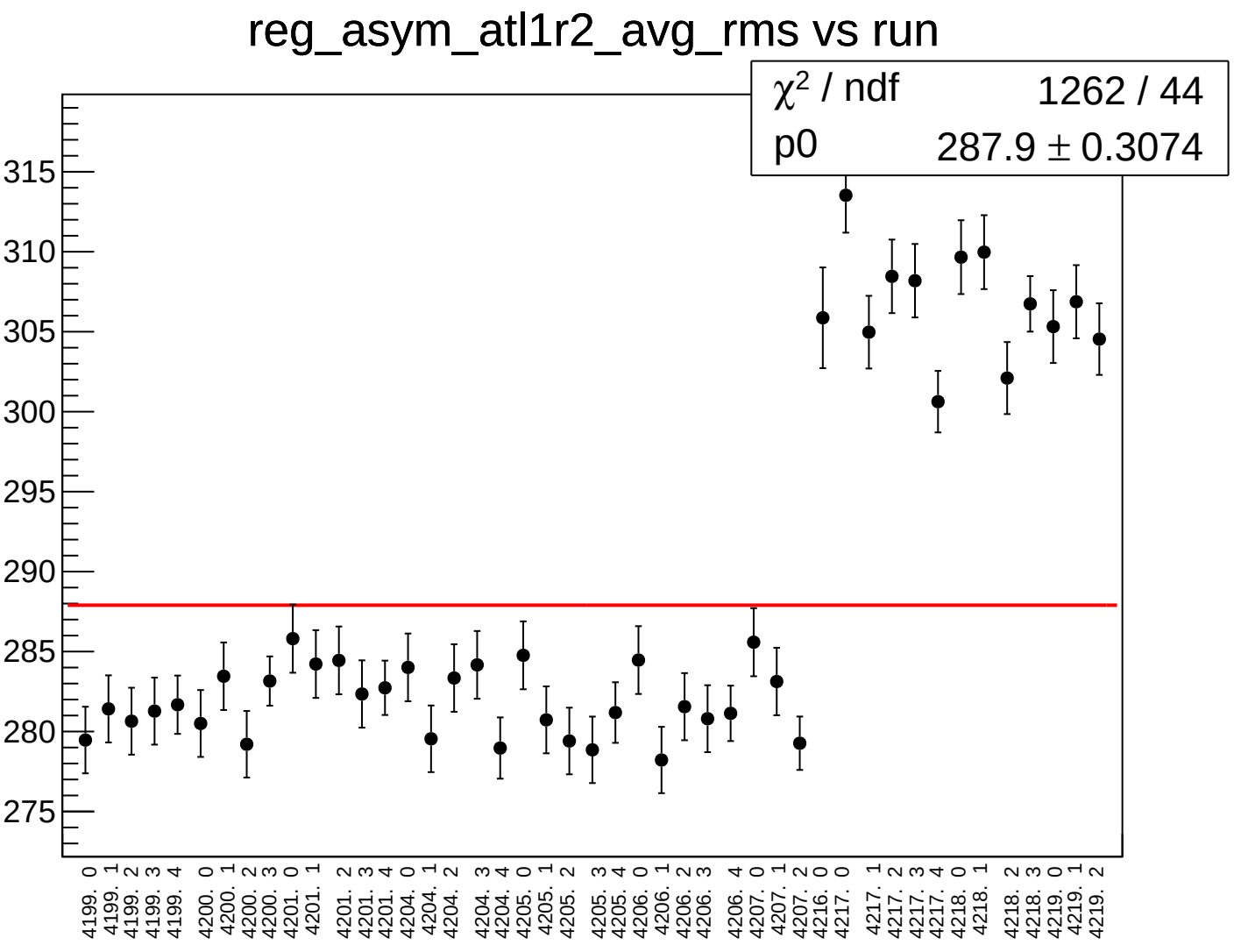

asym_at2_dd_mean vs run
χ² / ndf 53.49 / 44
p0 1004 ± 883
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −373.9
Std Dev 403.7
2
1
0
−1
−2

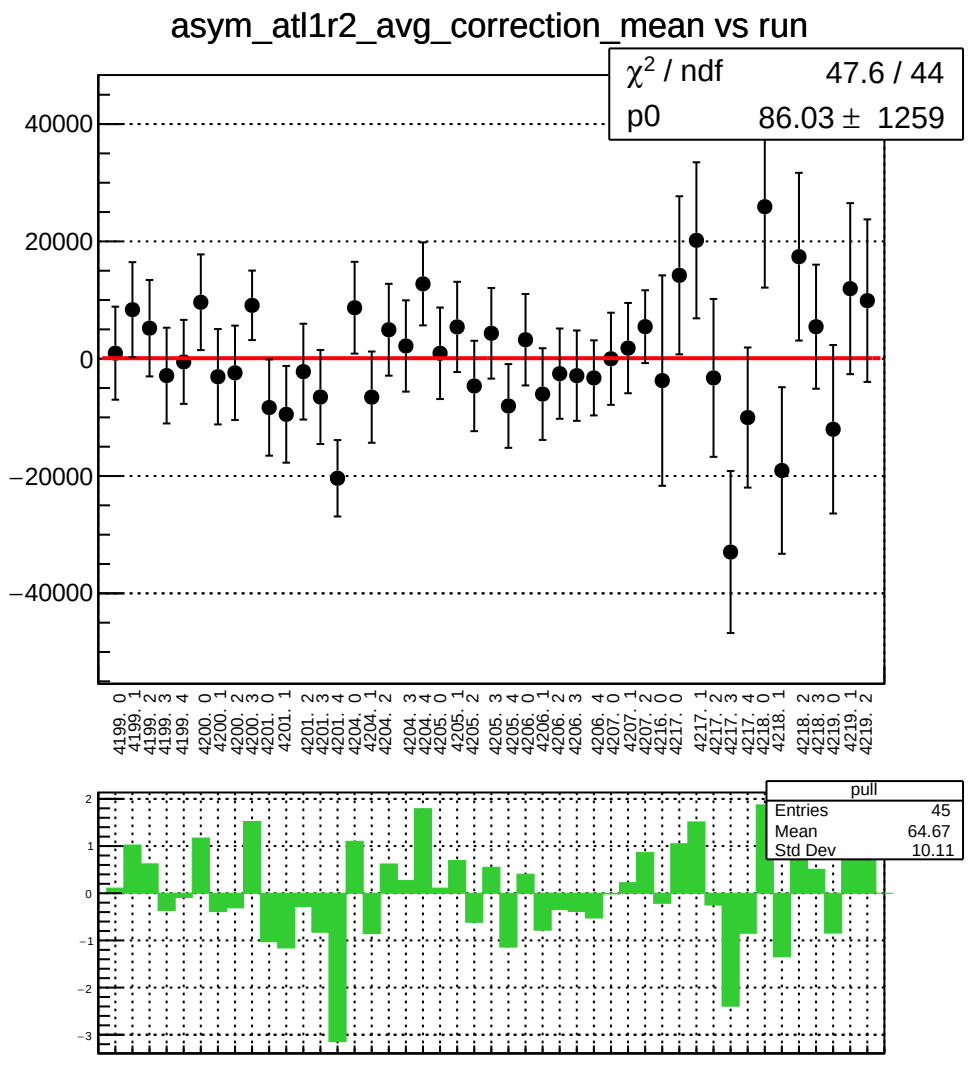

pull1D
Entries 45
Mean 0.005244
Std Dev 1.09
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

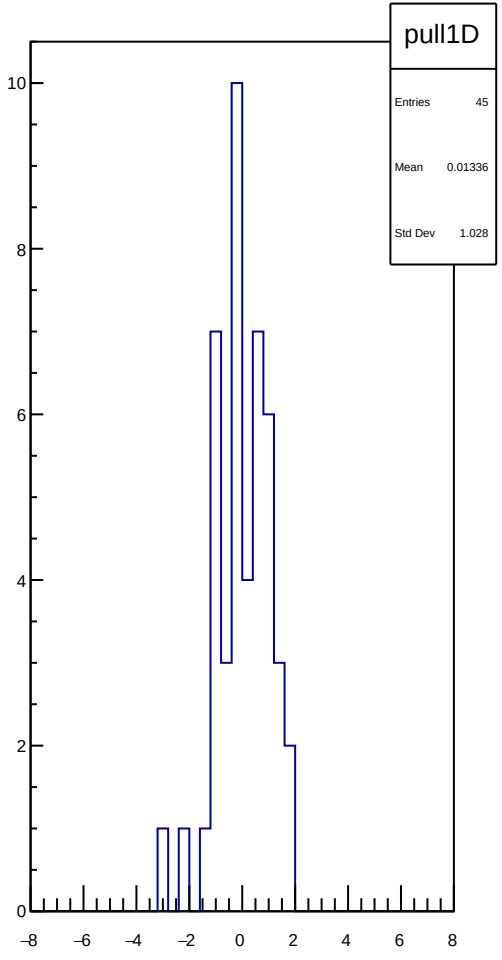

asym_at2_dd_rms vs run
χ² / ndf 191.3 / 44
p0 585.2 ± 0.6244
610
600
590
580
570
560
550
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

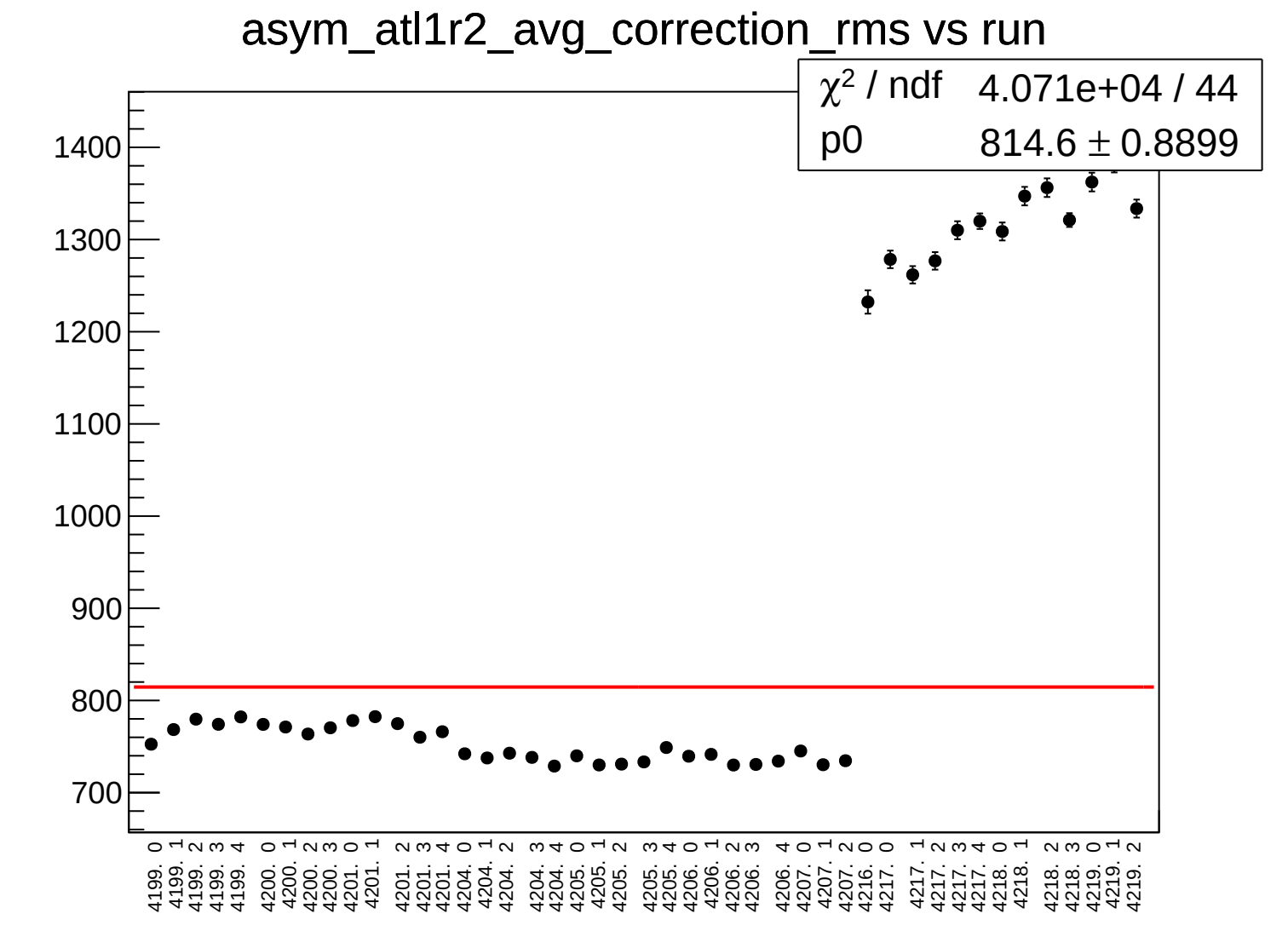

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 45.23 / 44
p0 −935.1 ± 434.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 487.4
Std Dev 468.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

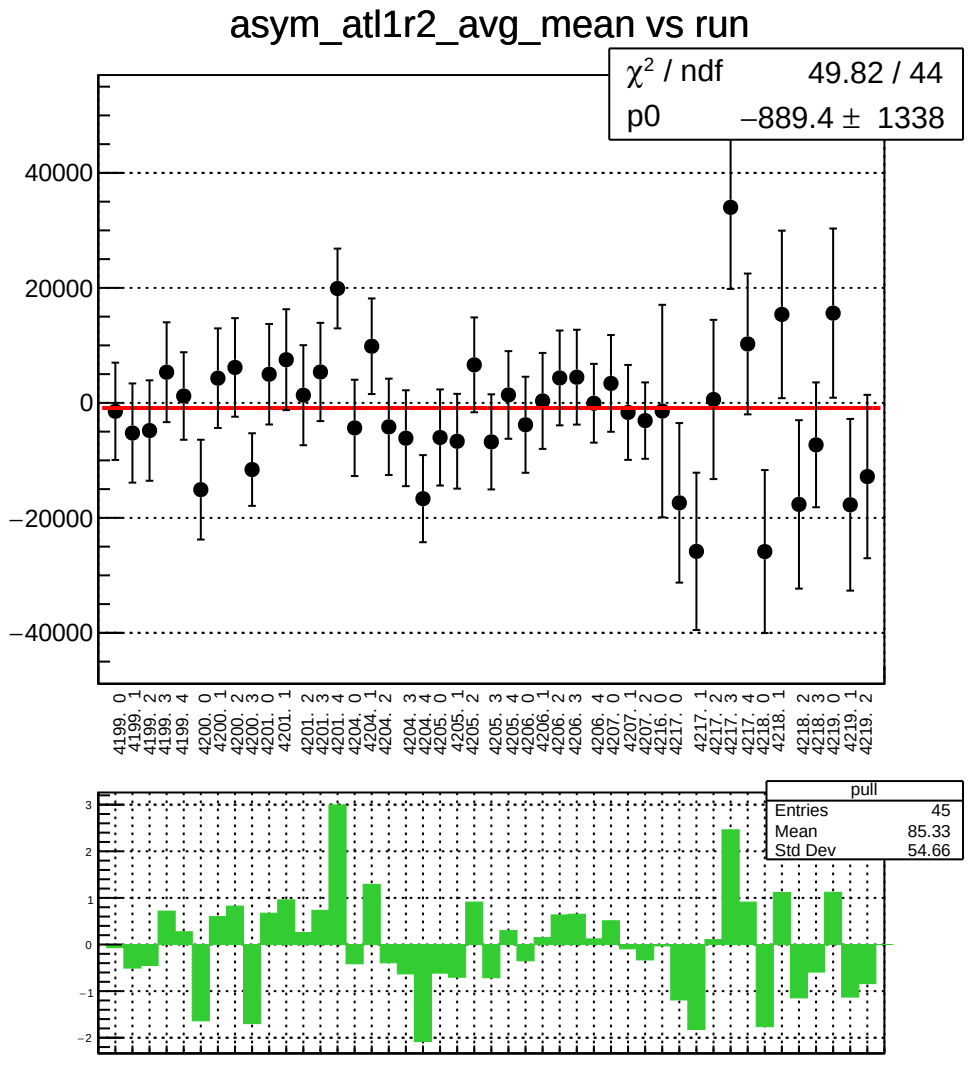

pull1D
Entries 45
Mean −0.005245
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

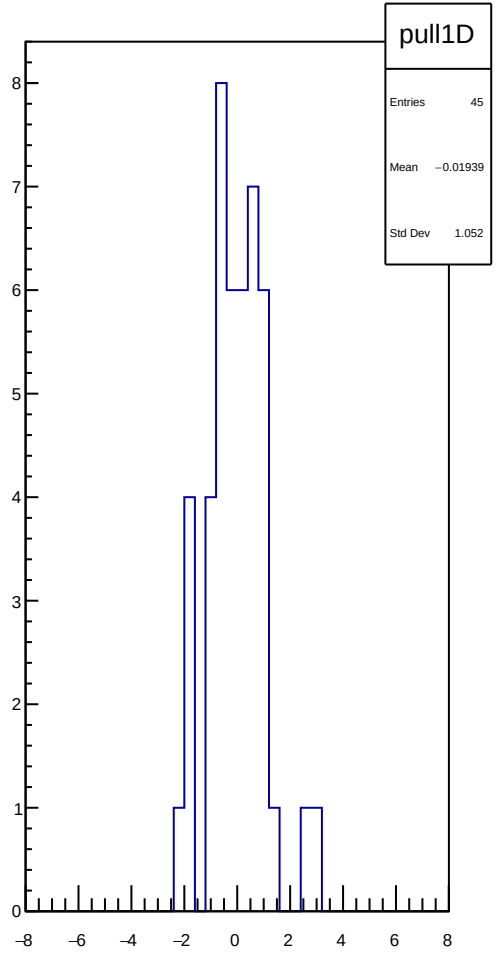

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1262 / 44
p0 287.9 ± 0.3074
315
310
305
300
295
290
285
280
275
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

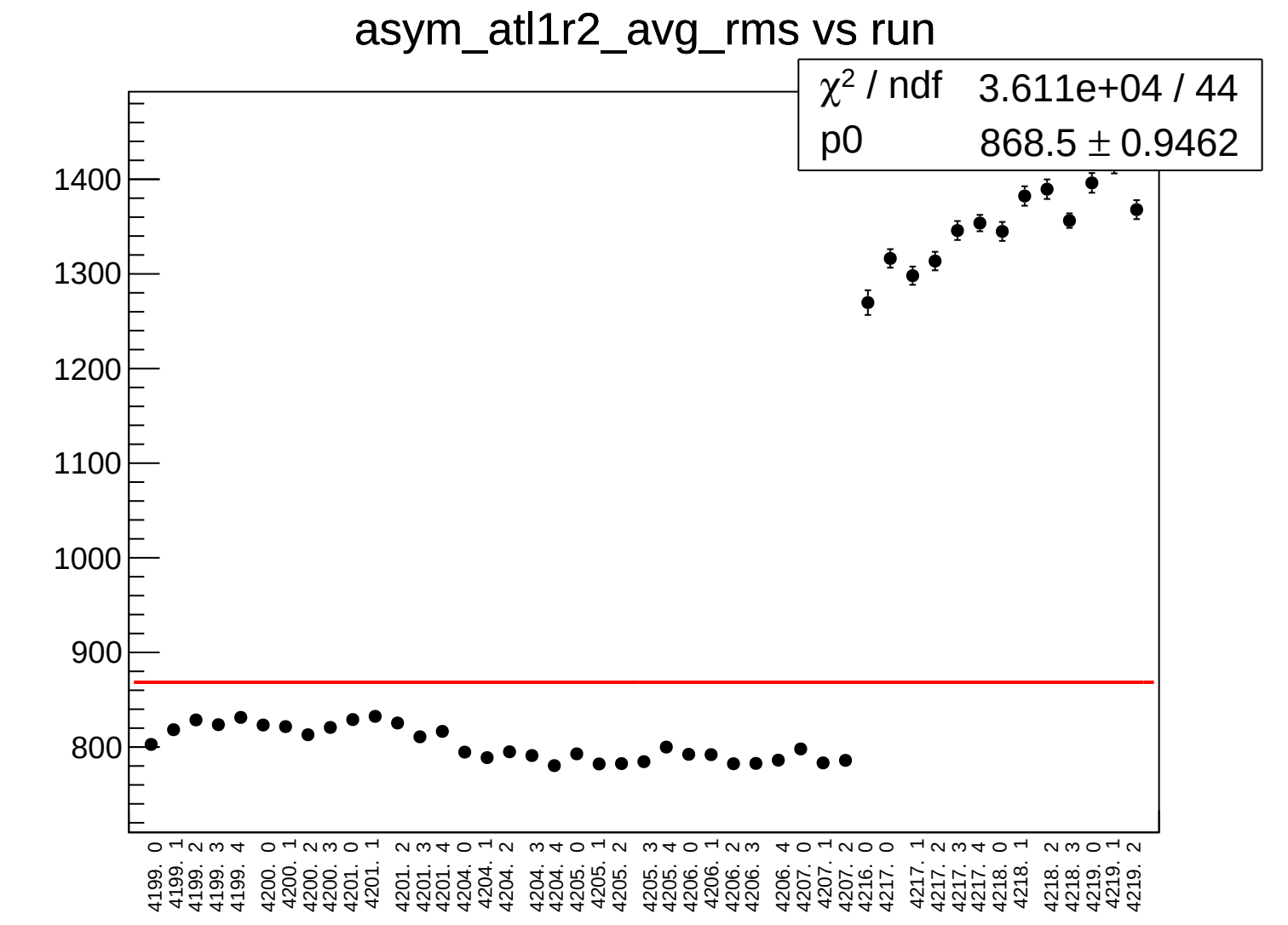

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 47.6 / 44
p0 86.03 ± 1259
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 64.67
Std Dev 10.11
2
1
0
−1
−2
−3

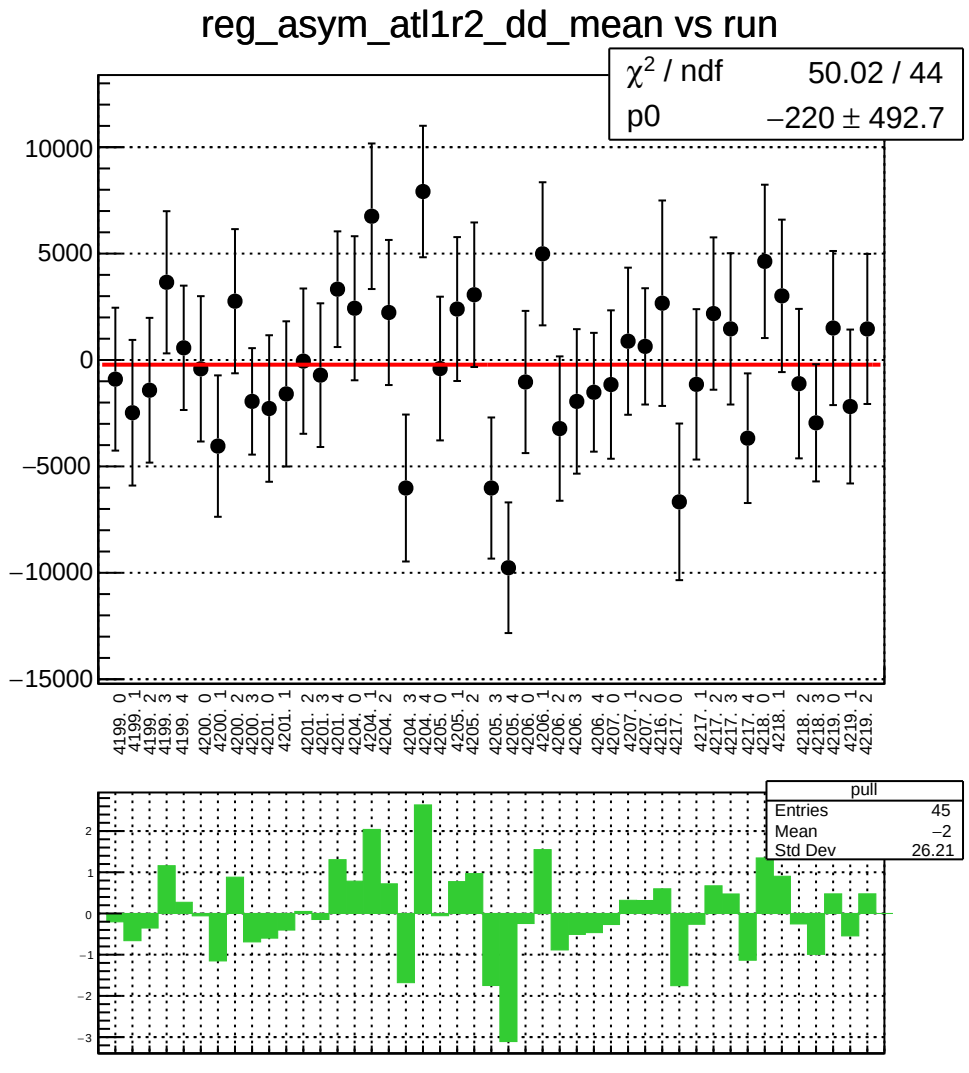

pull1D
Entries 45
Mean 0.01336
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

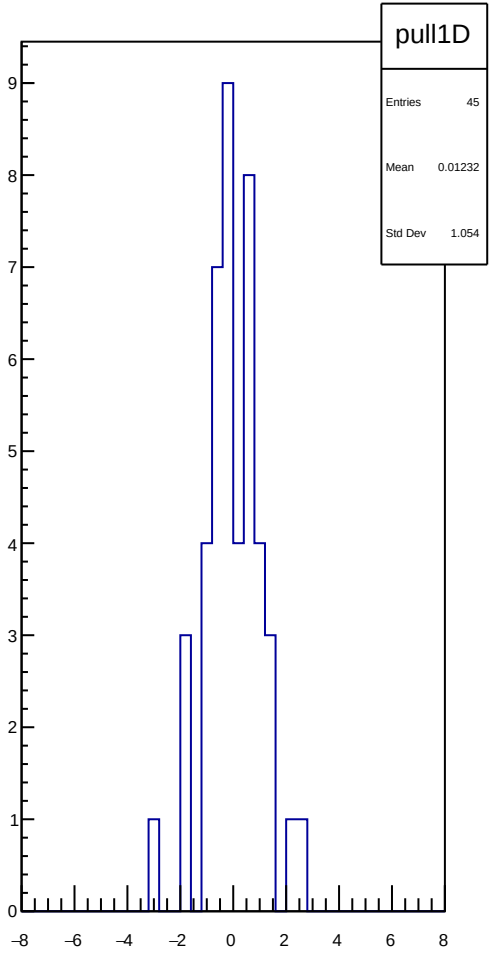

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4.071e+04 / 44
p0 814.6 ± 0.8899
1400
1300
1200
1100
1000
900
800
700
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

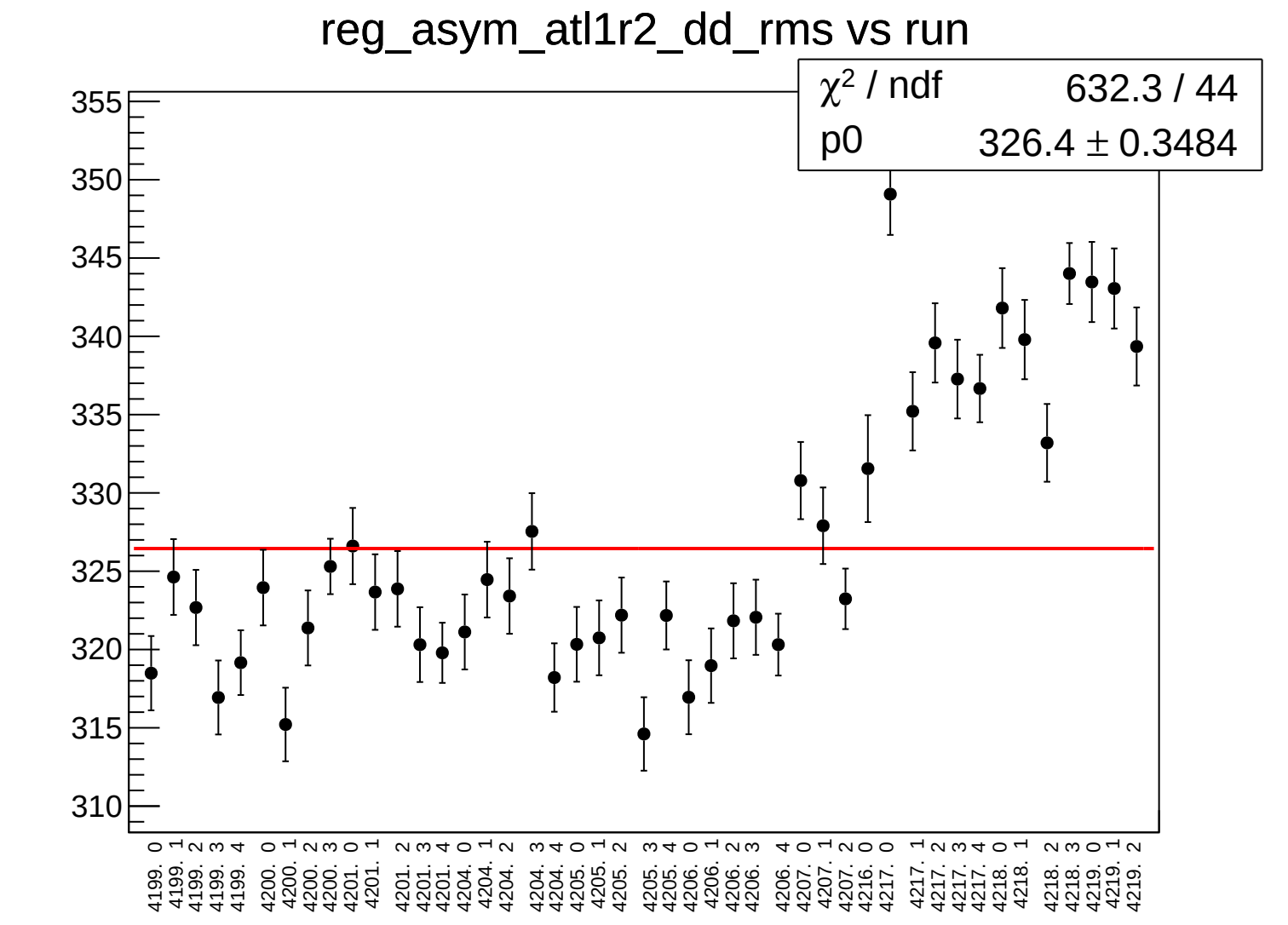

asym_atl1r2_avg_mean vs run
χ² / ndf 49.82 / 44
p0 −889.4 ± 1338
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 85.33
Std Dev 54.66
3
2
1
0
−1
−2

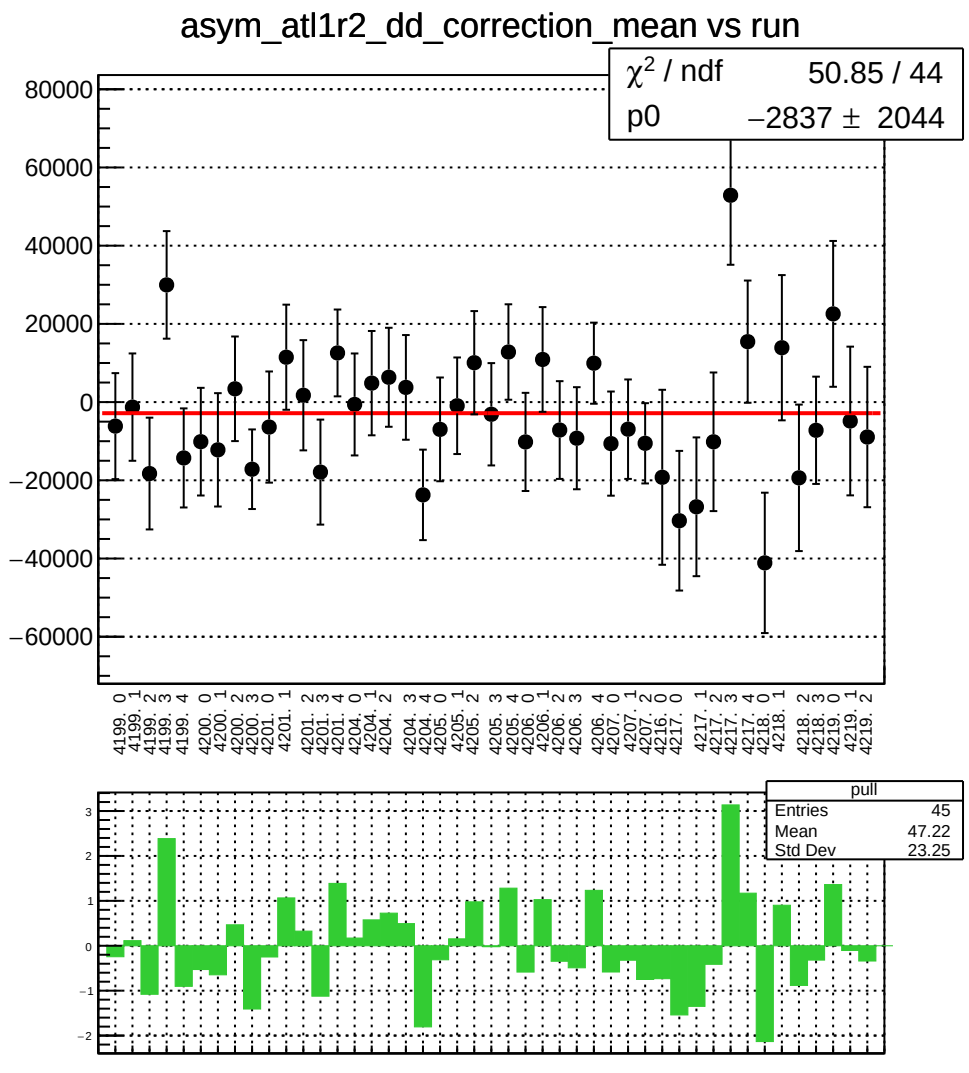

pull1D
Entries 45
Mean −0.01939
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

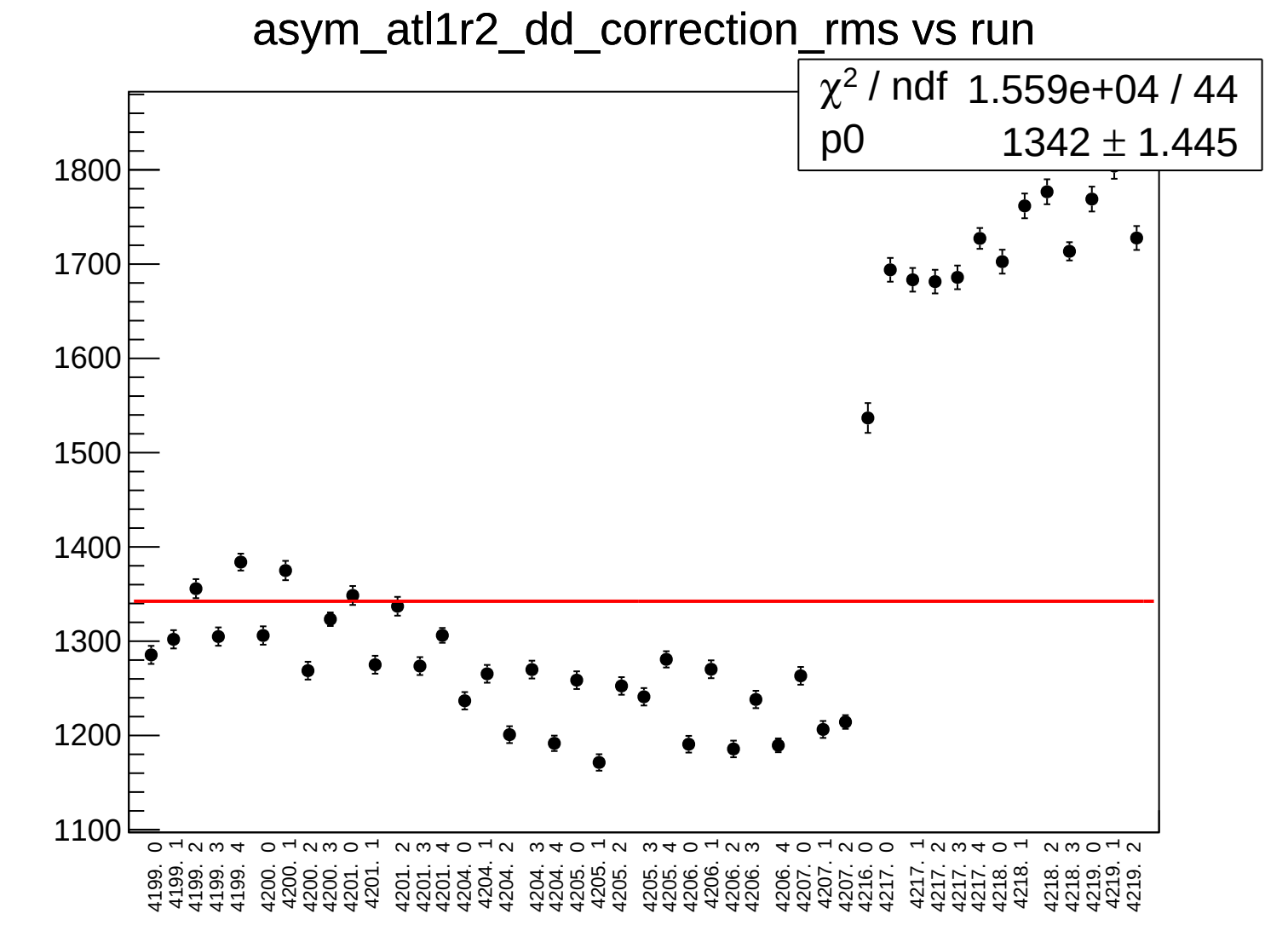

asym_atl1r2_avg_rms vs run
χ² / ndf 3.611e+04 / 44
p0 868.5 ± 0.9462
1400
1300
1200
1100
1000
900
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

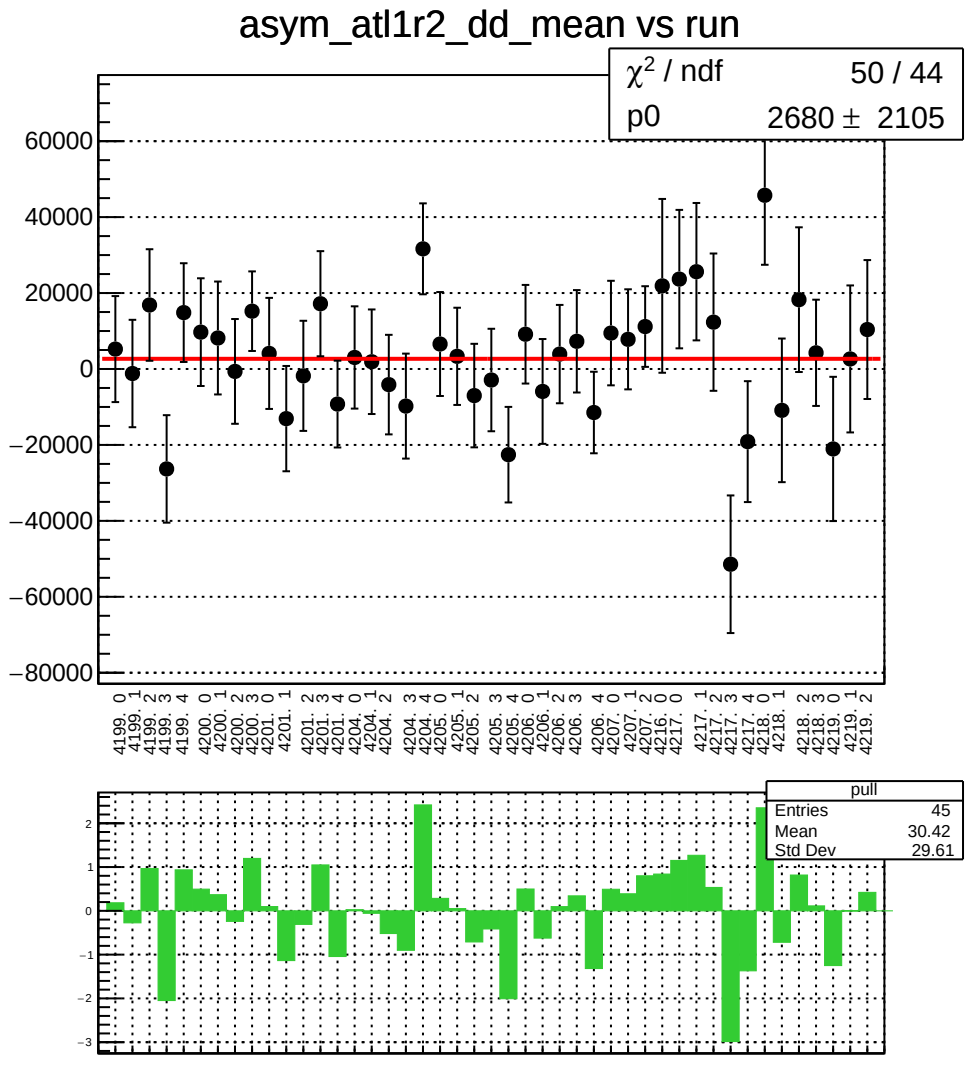

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 50.02 / 44
p0 −220 ± 492.7
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −2
Std Dev 26.21
2
1
0
−1
−2
−3

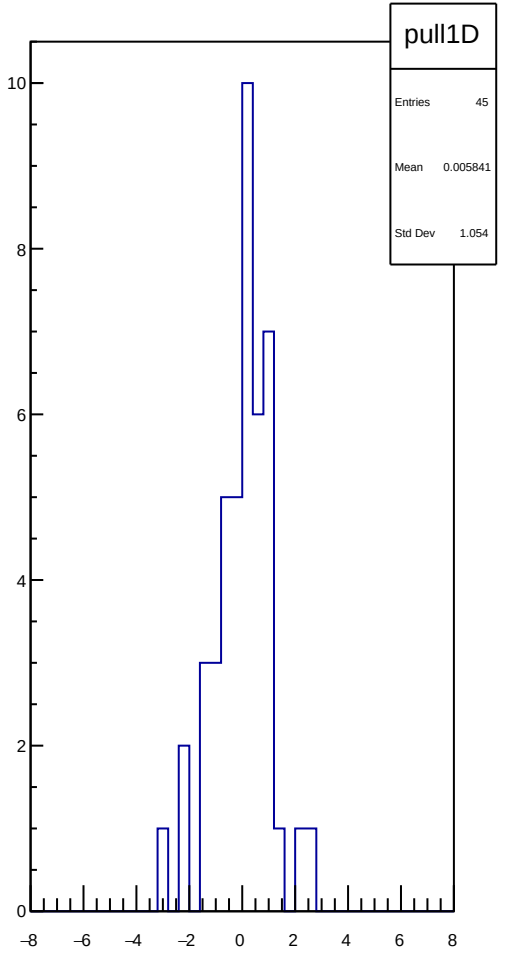

pull1D
Entries 45
Mean 0.01232
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

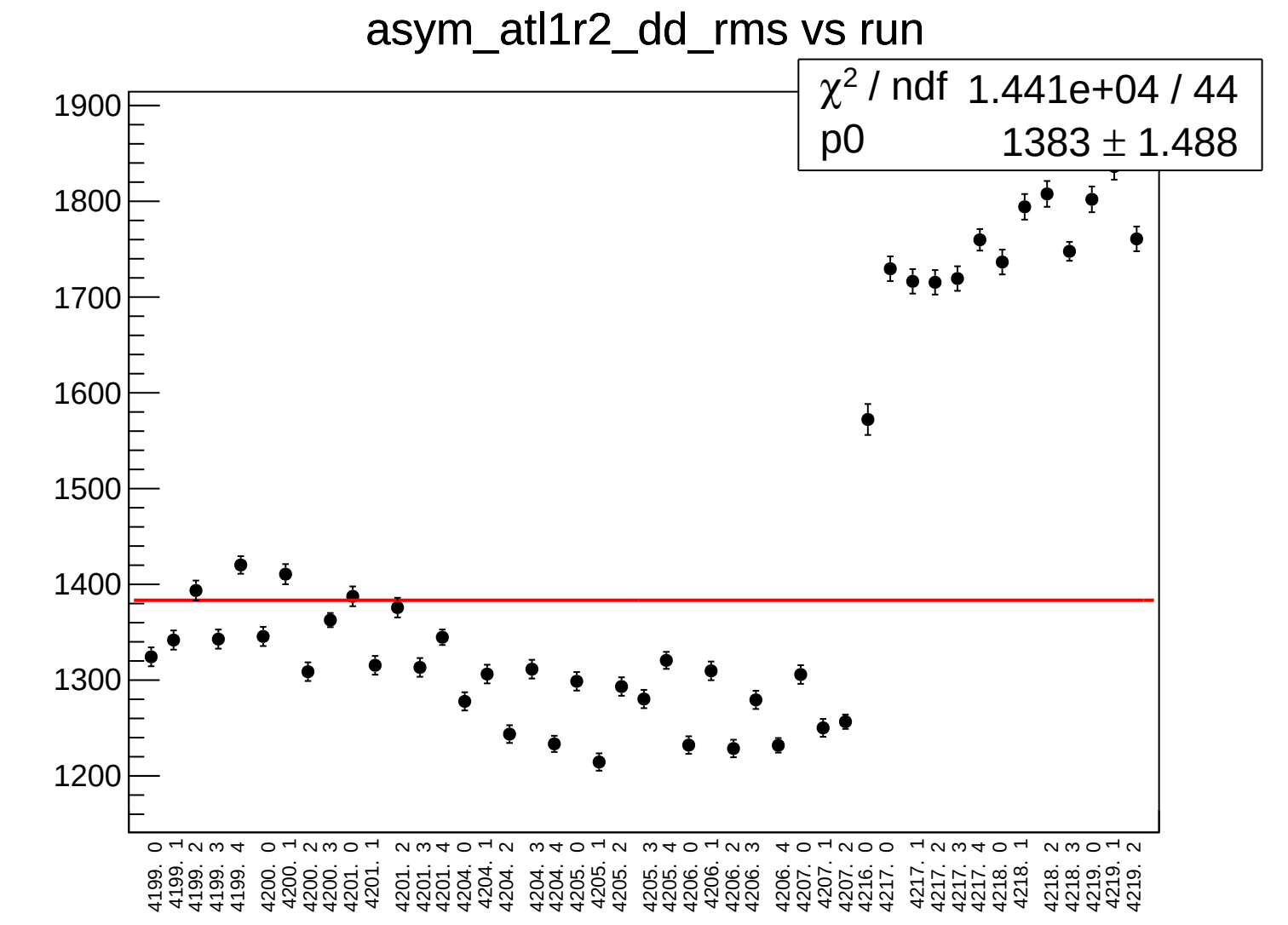

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 632.3 / 44
p0 326.4 ± 0.3484
355
350
345
340
335
330
325
320
315
310
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

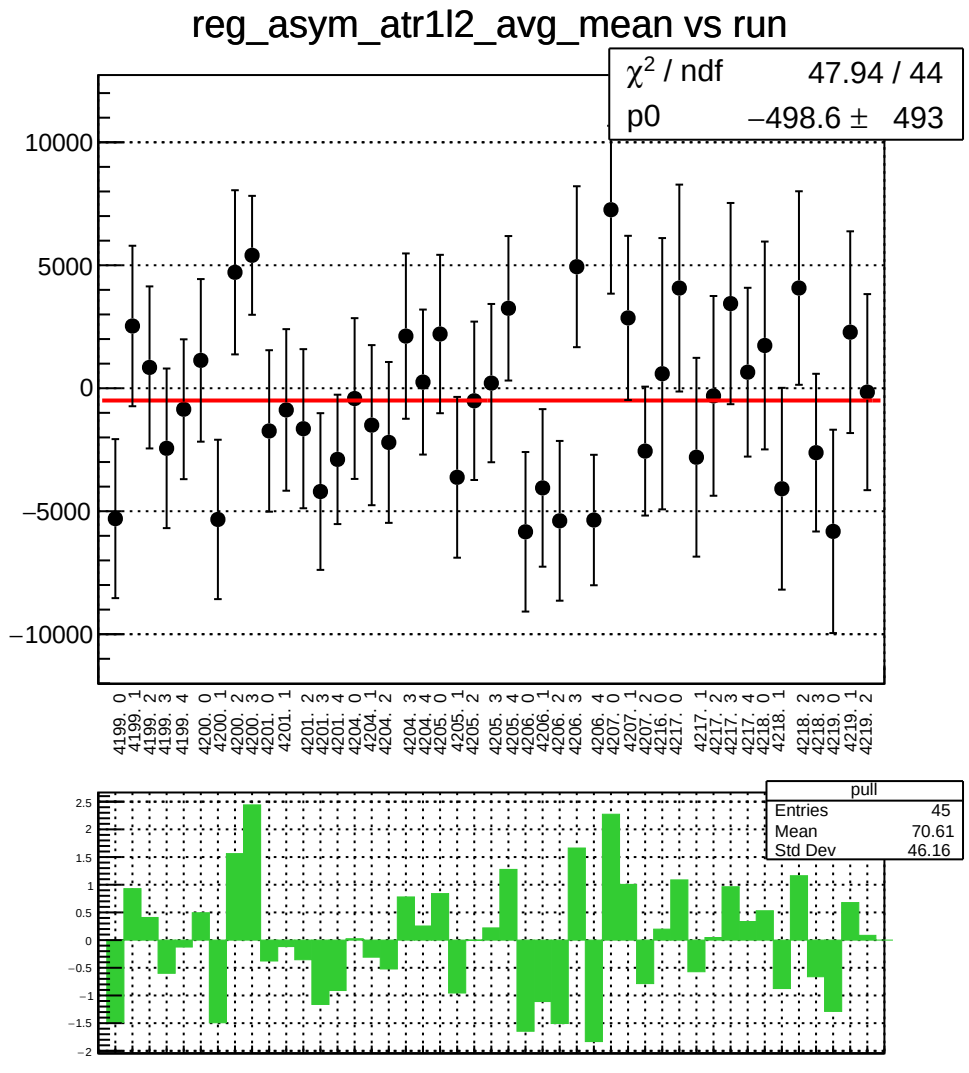

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 50.85 / 44
p0 −2837 ± 2044
80000
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 47.22
Std Dev 23.25
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.005704
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

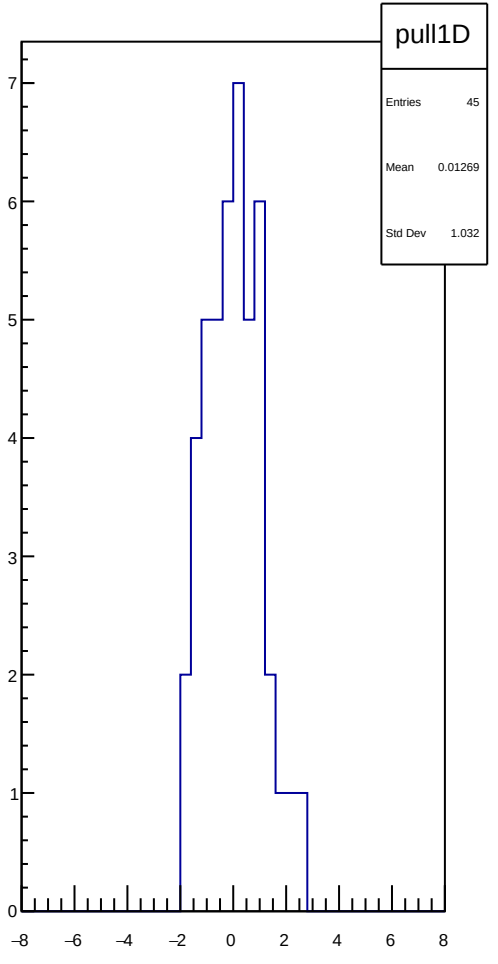

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.559e+04 / 44
p0 1342 ± 1.445
1800
1700
1600
1500
1400
1300
1200
1100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

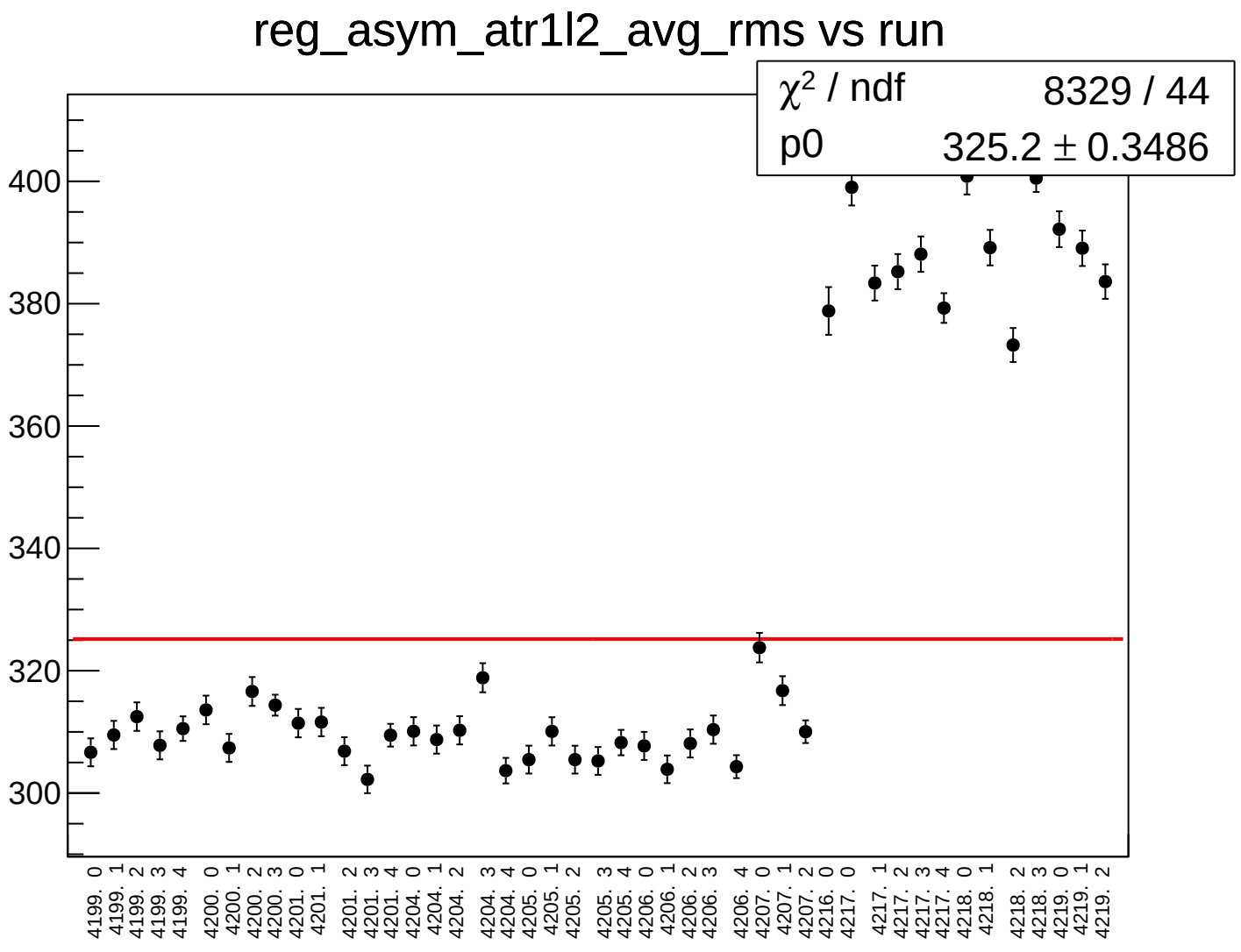

asym_atl1r2_dd_mean vs run
χ² / ndf 50 / 44
p0 2680 ± 2105
60000
40000
20000
0
−20000
−40000
−60000
−80000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 30.42
Std Dev 29.61
2
1
0
−1
−2
−3

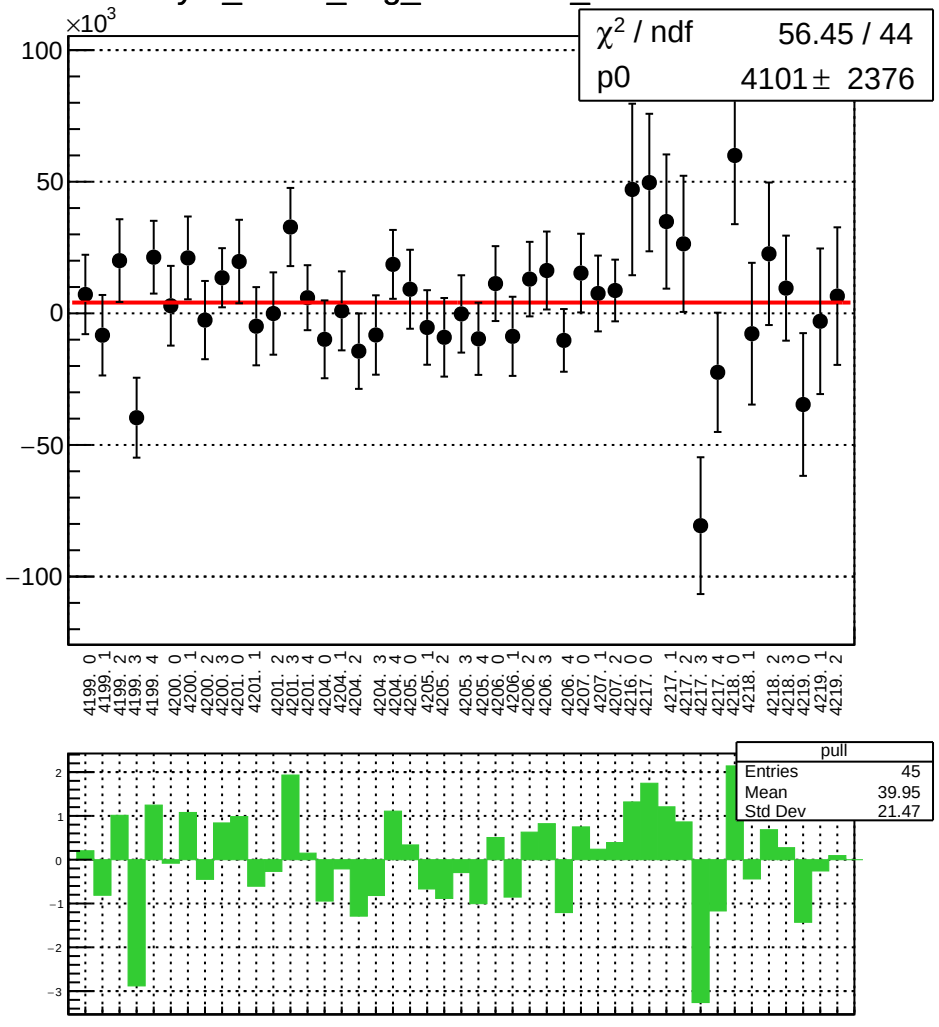

pull1D
Entries 45
Mean 0.005841
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

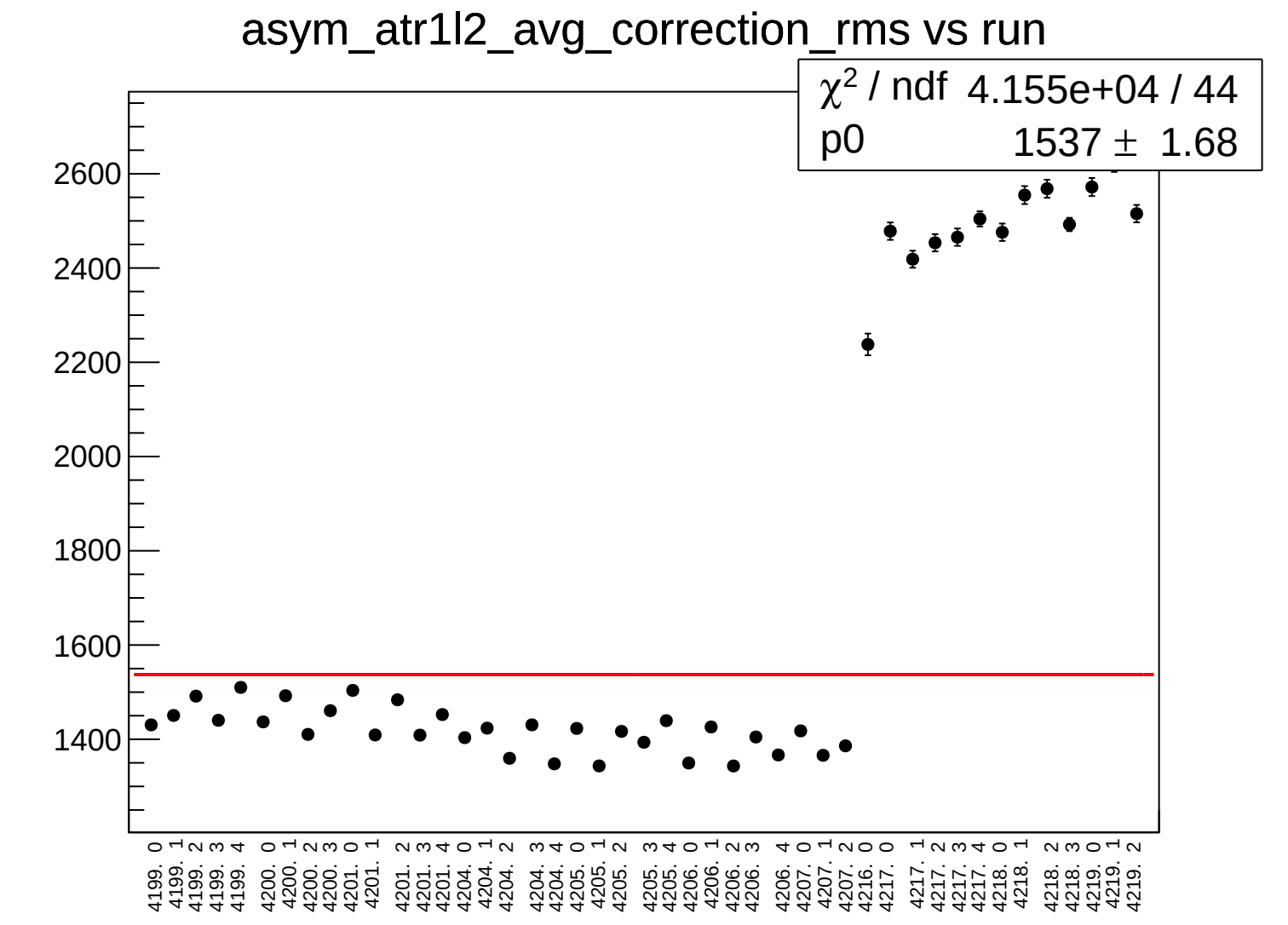

asym_atl1r2_dd_rms vs run
χ² / ndf 1.441e+04 / 44
p0 1383 ± 1.488
1900
1800
1700
1600
1500
1400
1300
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

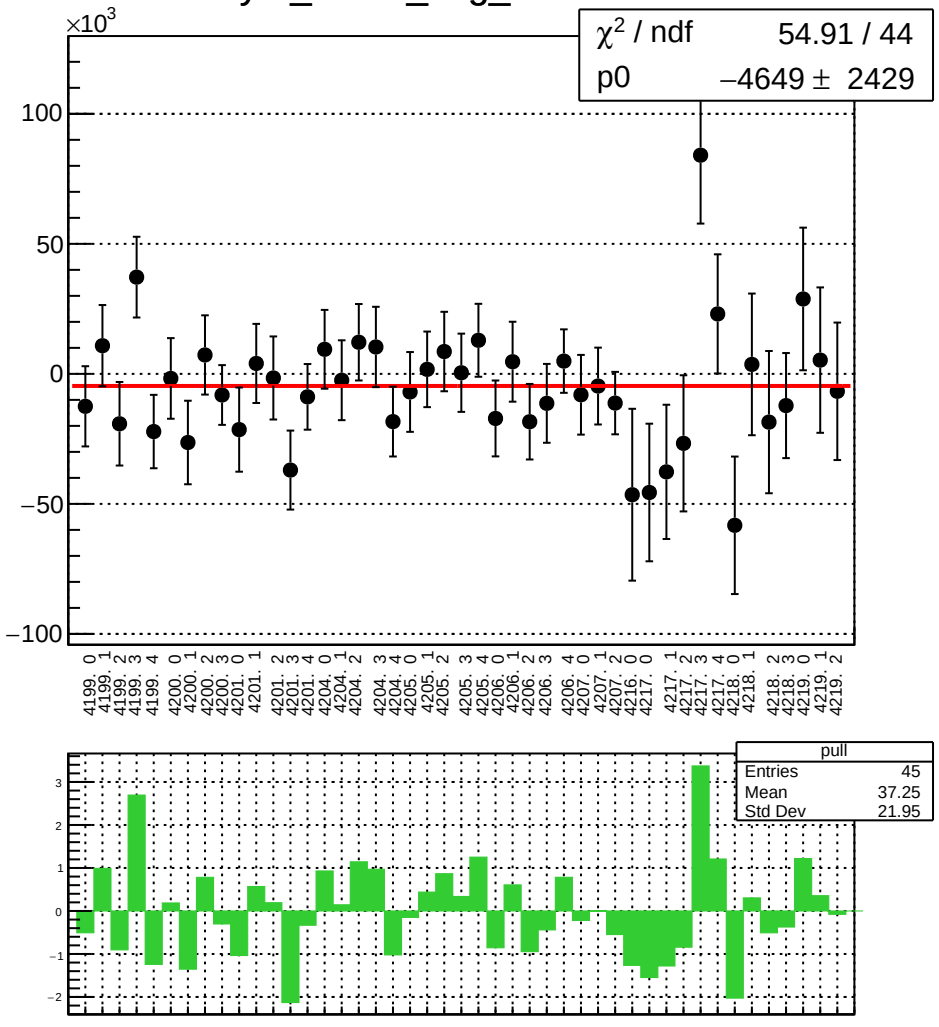

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 47.94 / 44
p0 −498.6 ± 493
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 70.61
Std Dev 46.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

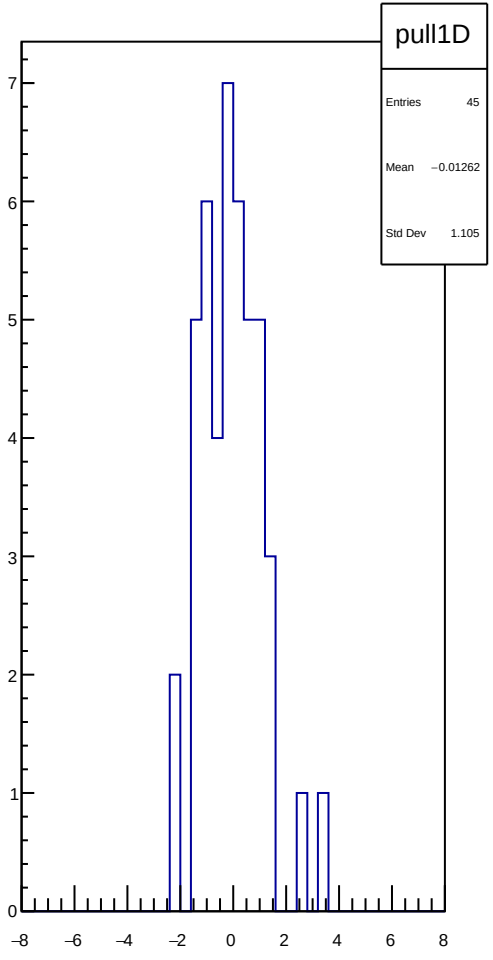

pull1D
Entries 45
Mean 0.01269
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

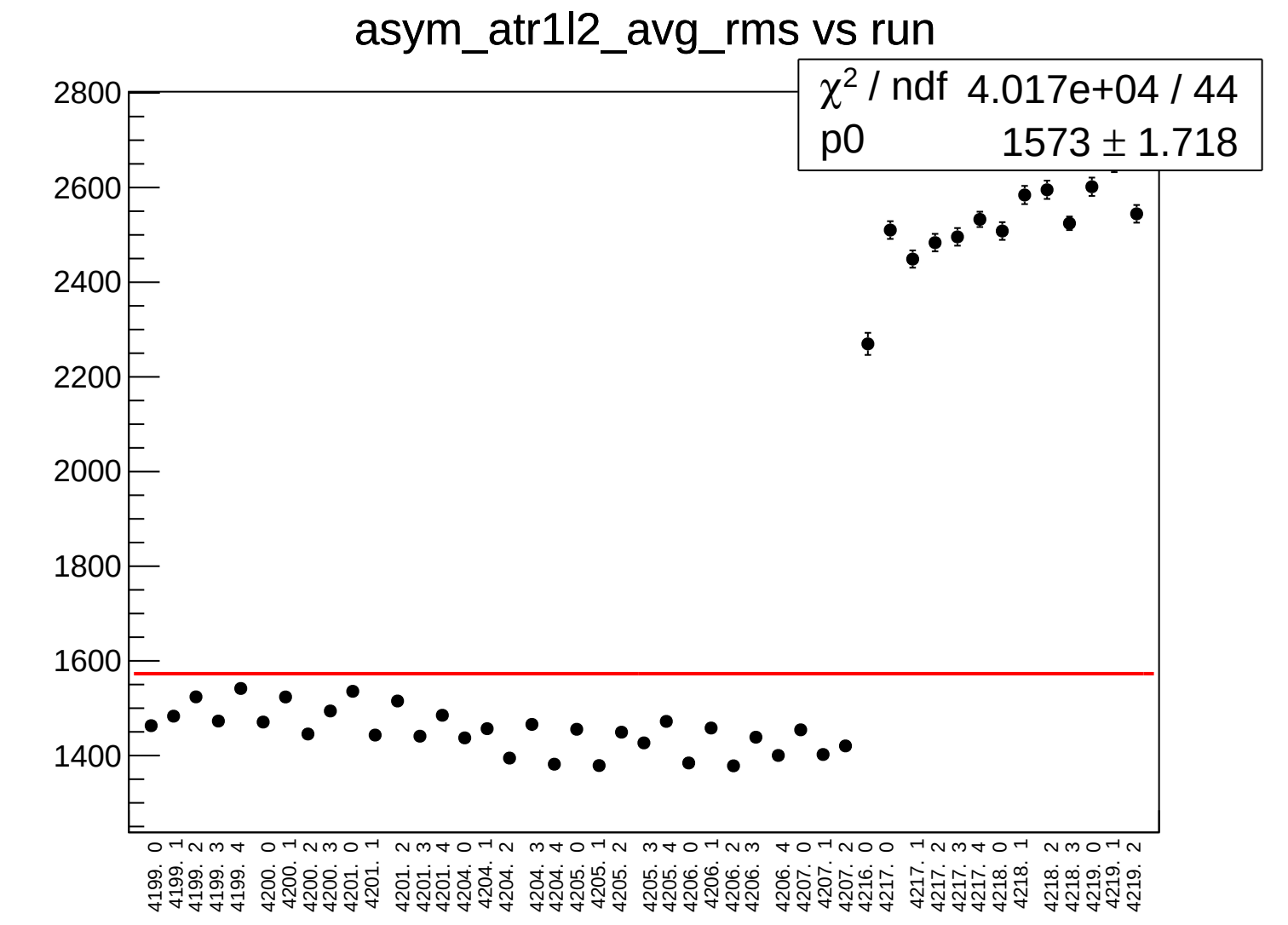

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 8329 / 44
p0 325.2 ± 0.3486
400
380
360
340
320
300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

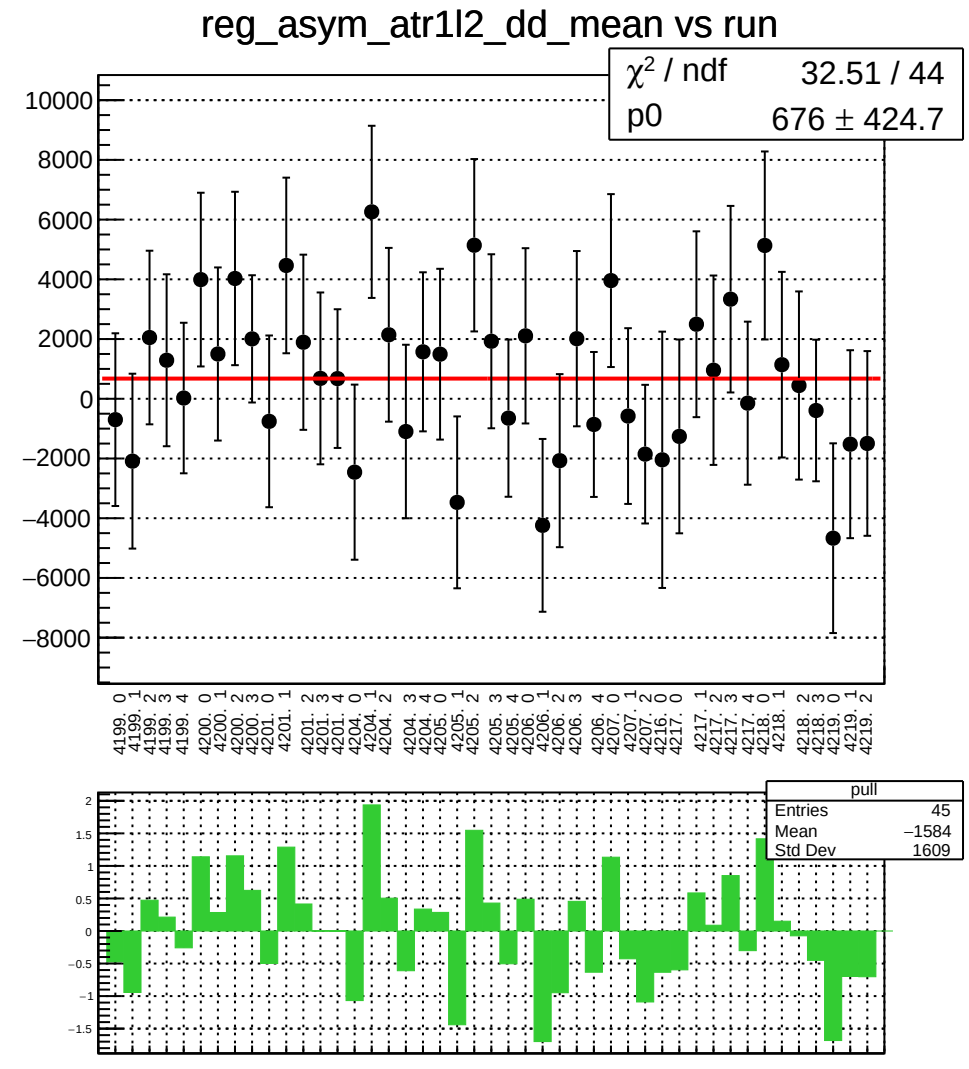

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 56.45 / 44
p0 4101 ± 2376
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 39.95
Std Dev 21.47
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01635
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

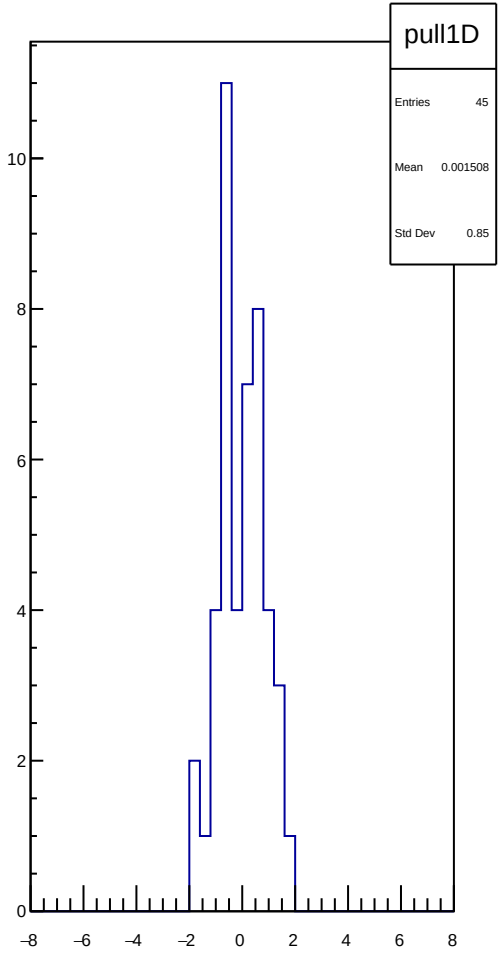

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4.155e+04 / 44
p0 1537 ± 1.68
2600
2400
2200
2000
1800
1600
1400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

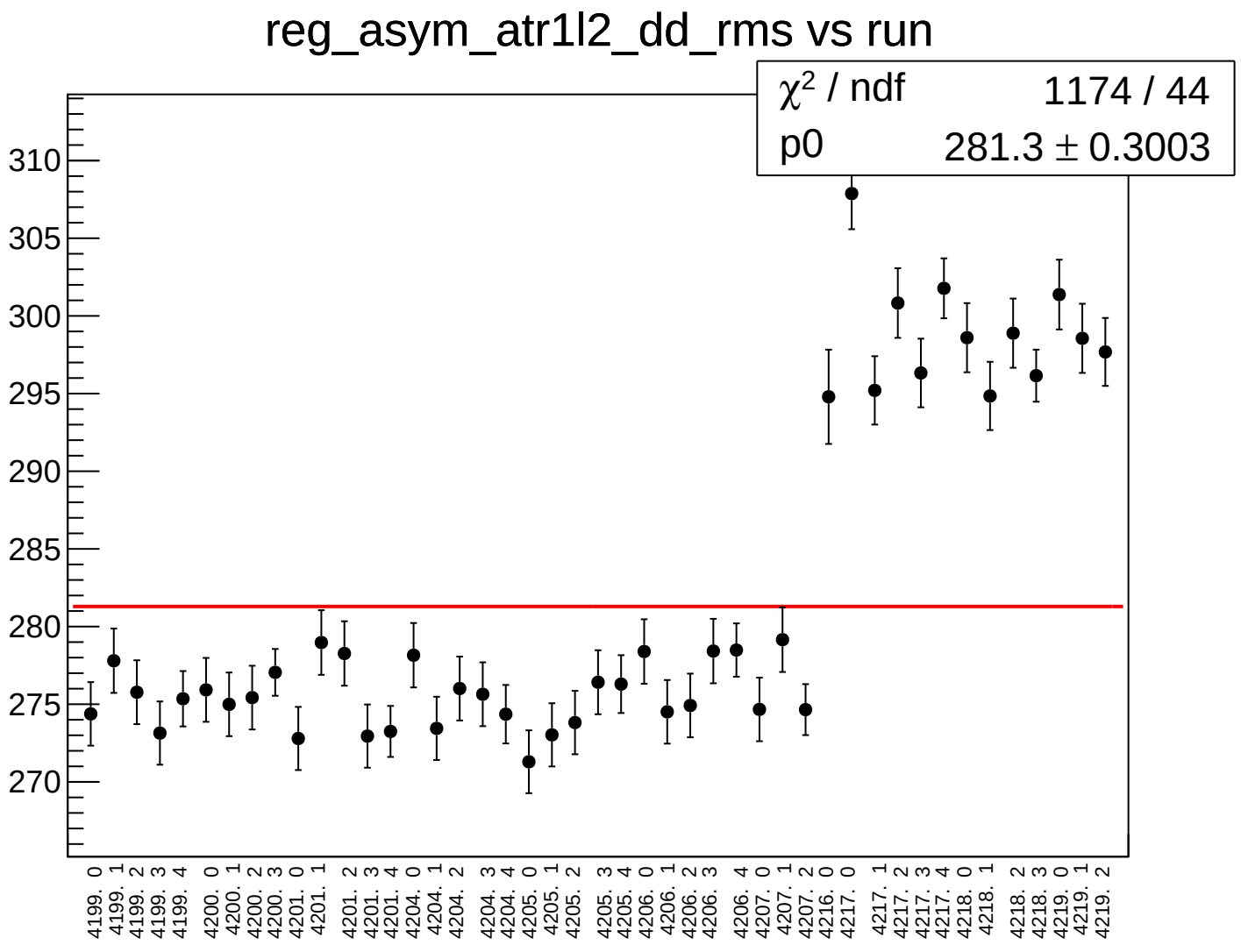

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 54.91 / 44
p0 −4649 ± 2429
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 37.25
Std Dev 21.95
3
2
1
0
−1
−2

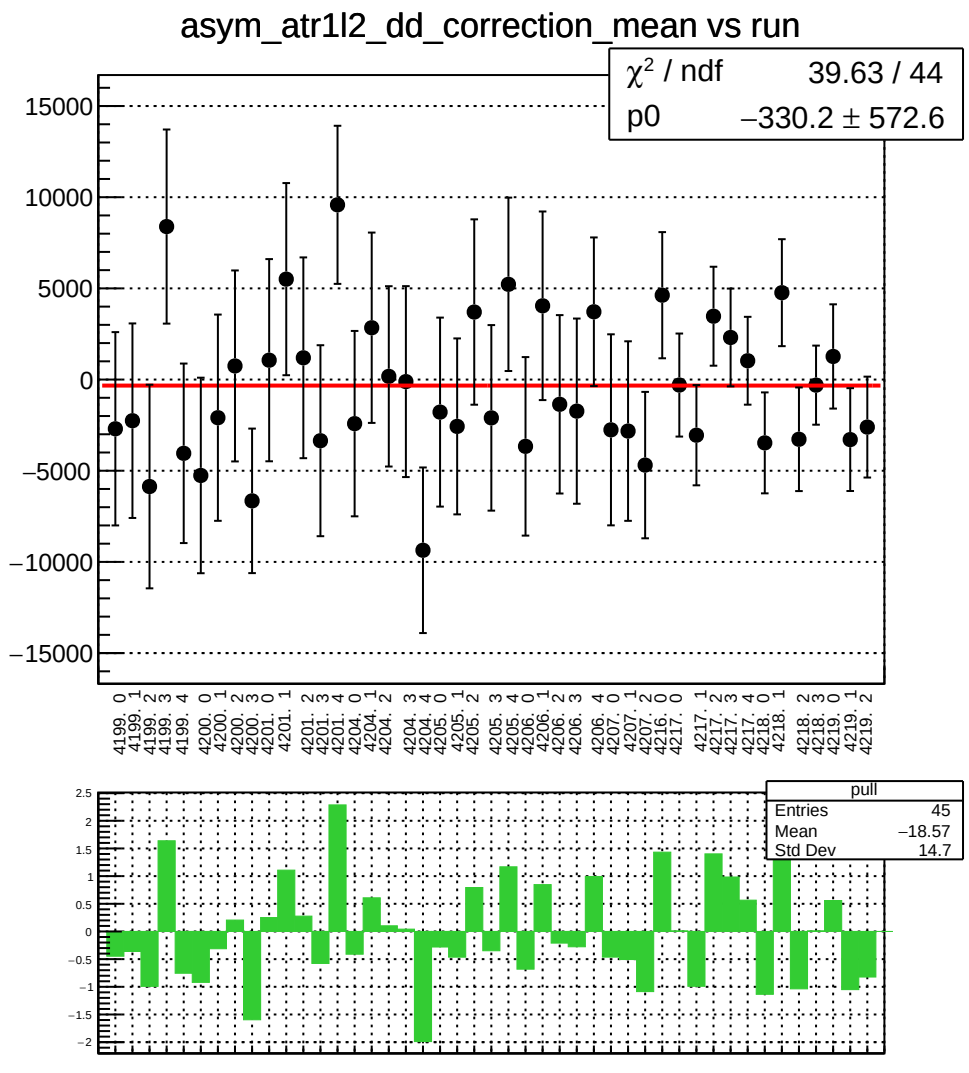

pull1D
Entries 45
Mean −0.01262
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

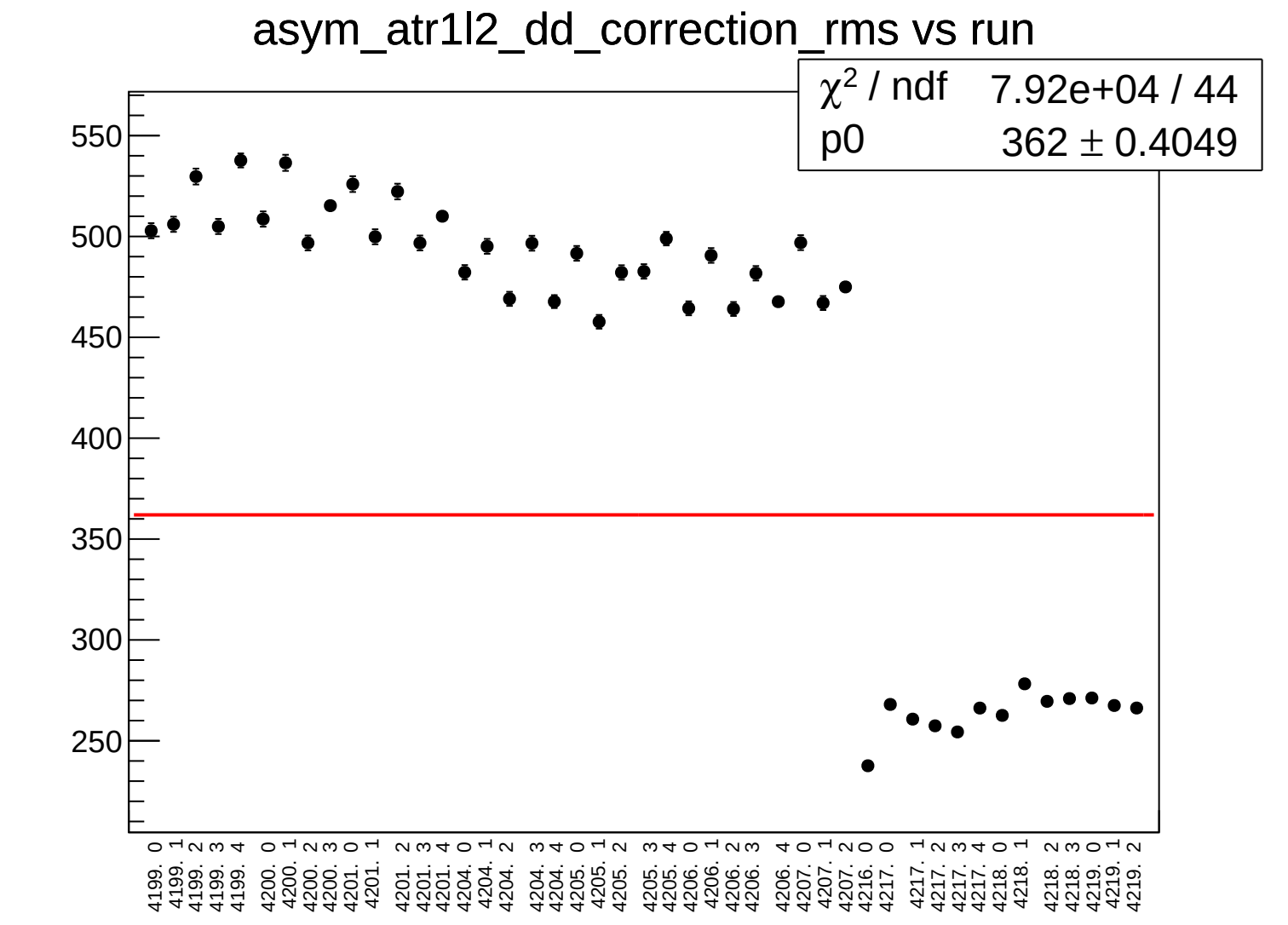

asym_atr1l2_avg_rms vs run
χ² / ndf 4.017e+04 / 44
p0 1573 ± 1.718
2800
2600
2400
2200
2000
1800
1600
1400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

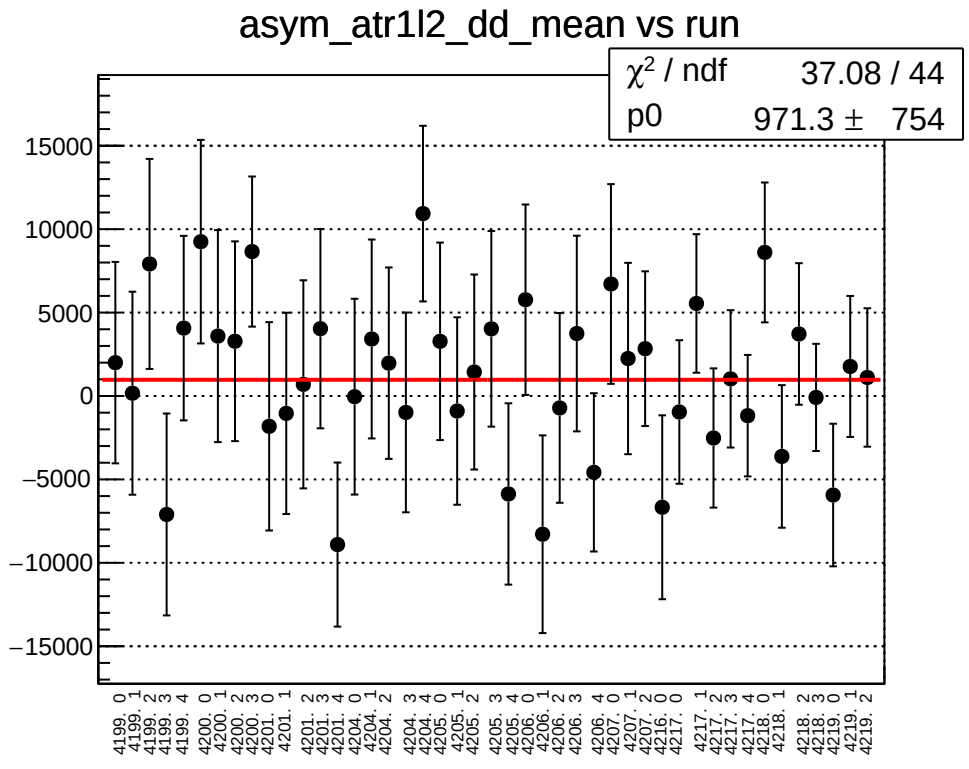

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 32.51 / 44
p0 676 ± 424.7
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1584
Std Dev 1609
2
1.5
1
0.5
0
−0.5
−1
−1.5

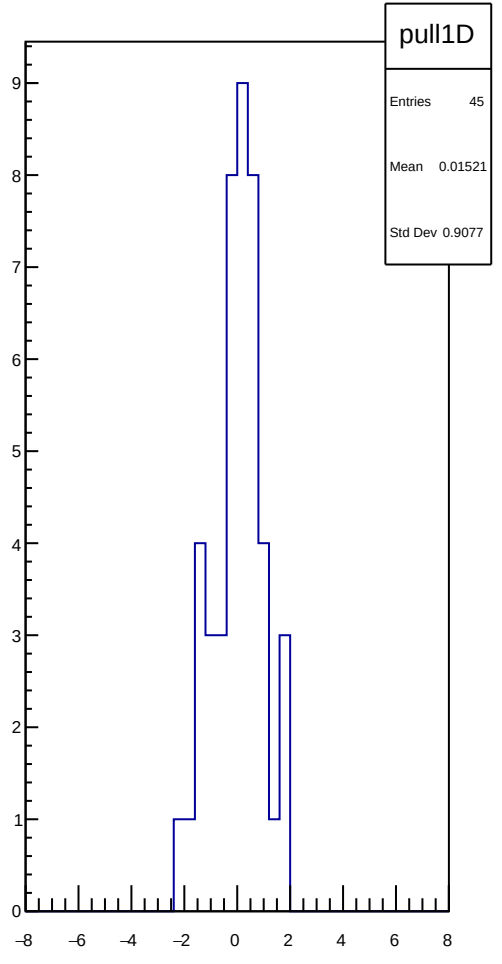

pull1D
Entries 45
Mean 0.001508
Std Dev 0.85
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

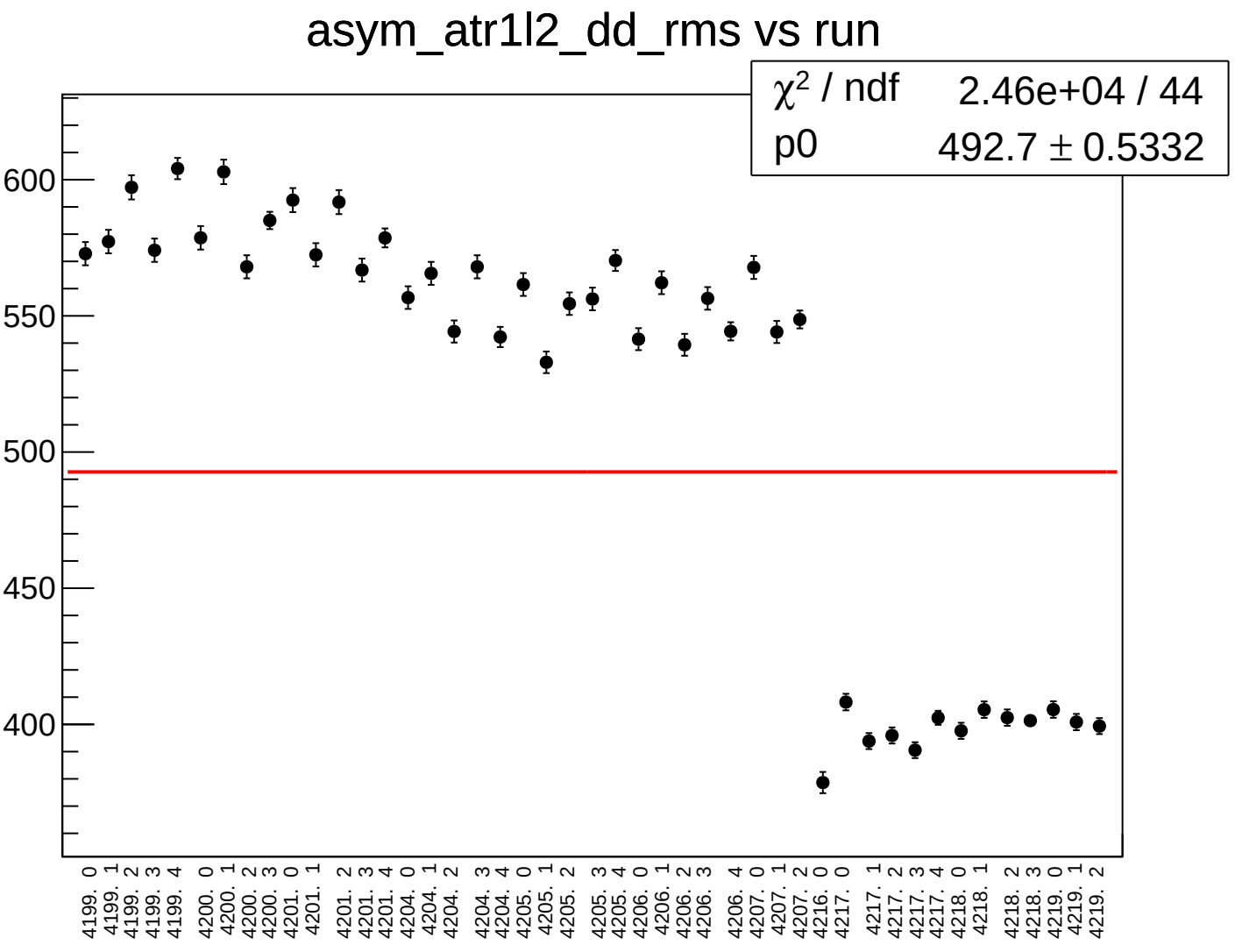

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1174 / 44
p0 281.3 ± 0.3003
310
305
300
295
290
285
280
275
270
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

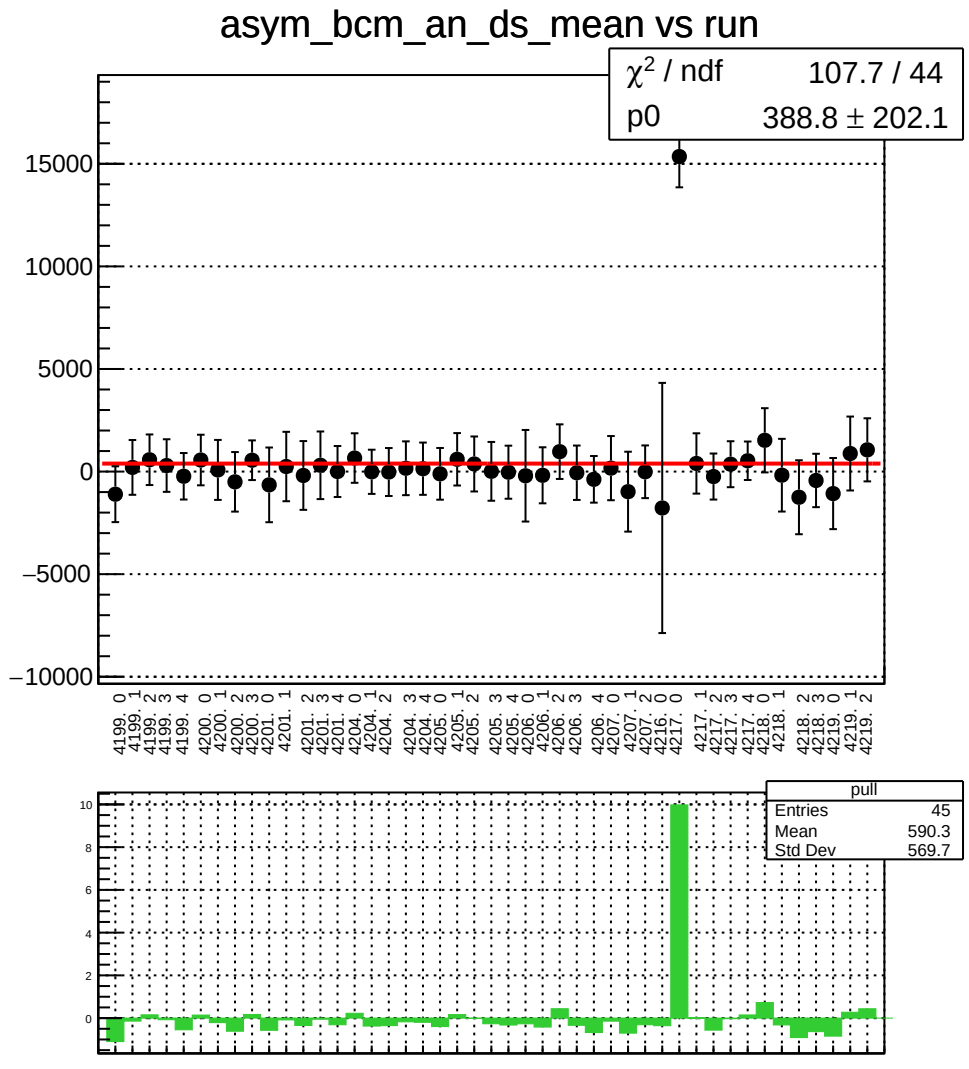

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 39.63 / 44
p0 −330.2 ± 572.6
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −18.57
Std Dev 14.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01529
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

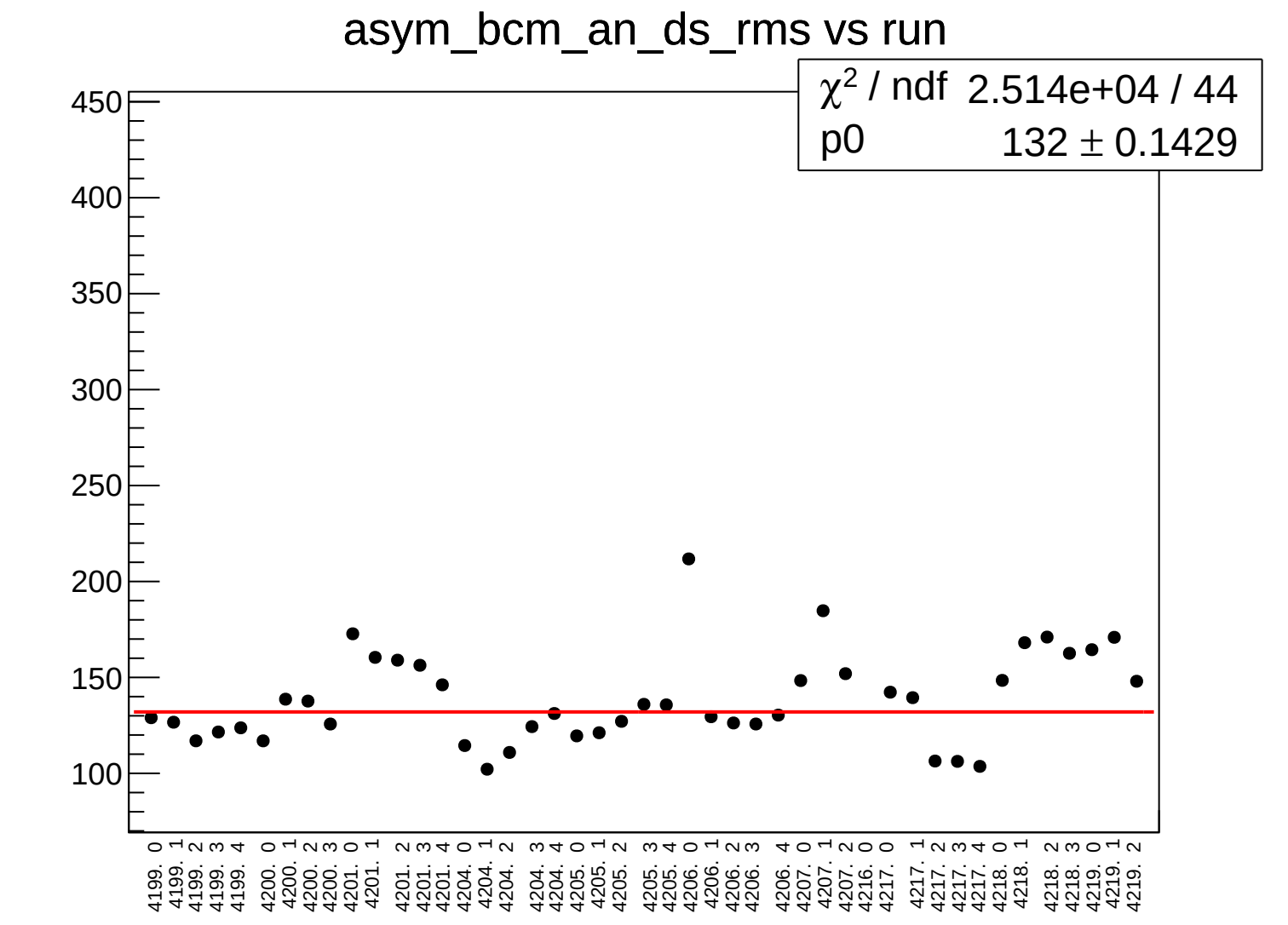

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 7.92e+04 / 44
p0 362 ± 0.4049
550
500
450
400
350
300
250
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

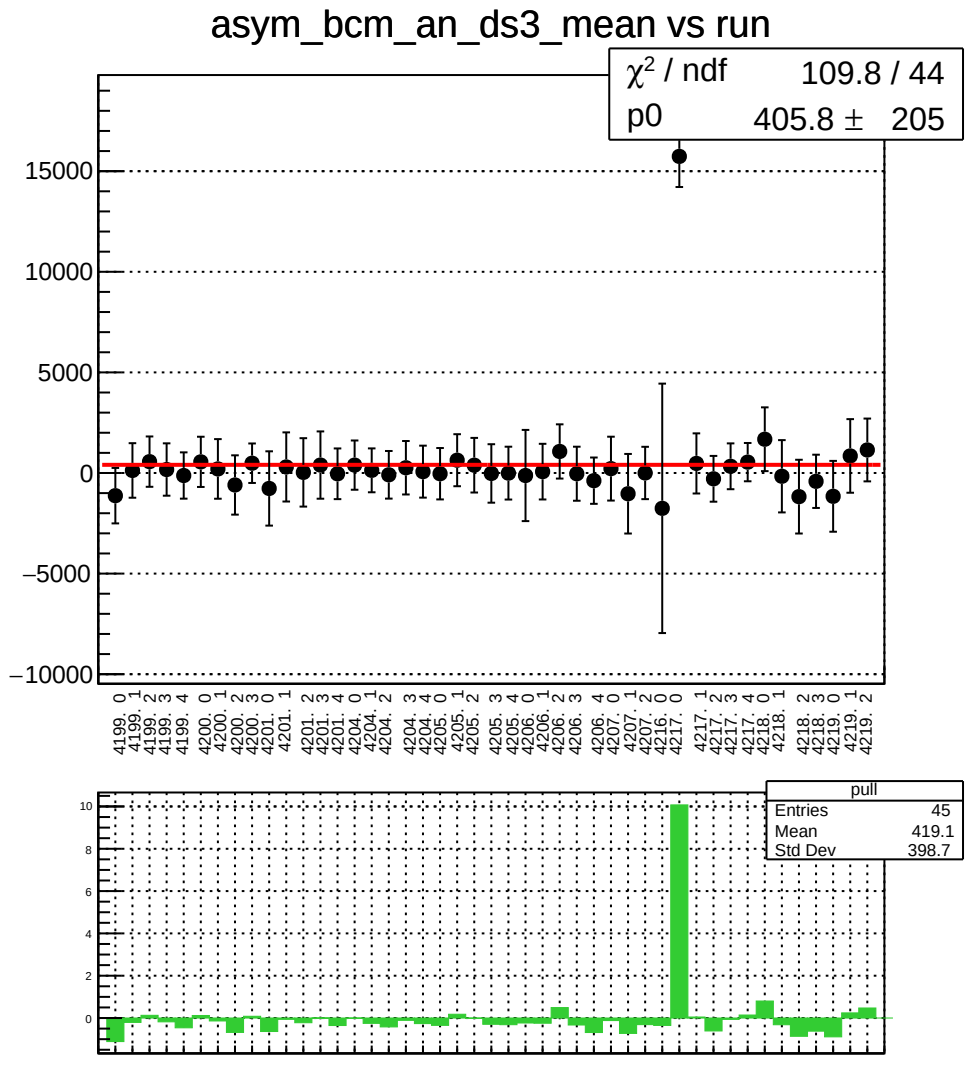

asym_atr1l2_dd_mean vs run
χ² / ndf 37.08 / 44
p0 971.3 ± 754
15000
10000
5000
0
−5000
−10000
−15000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −105.2
Std Dev 125.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

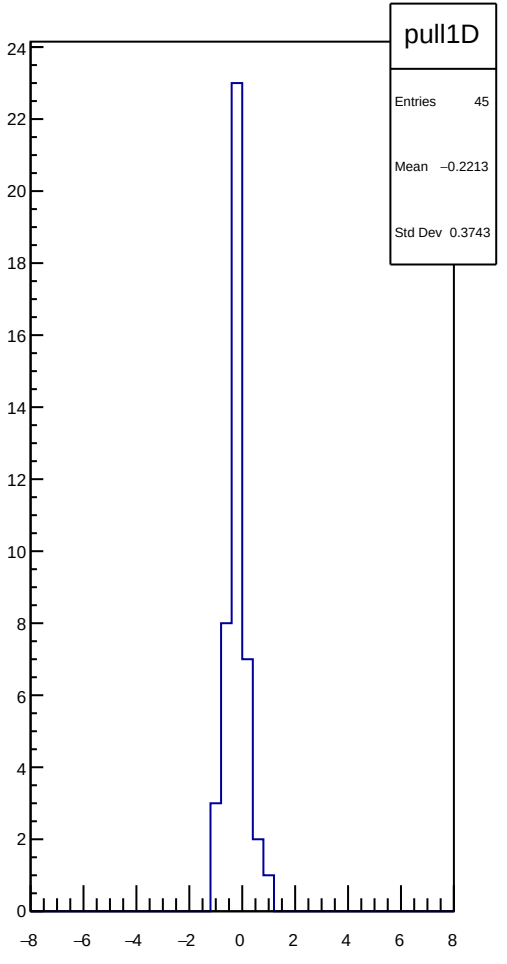

pull1D
Entries 45
Mean 0.01521
Std Dev 0.9077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

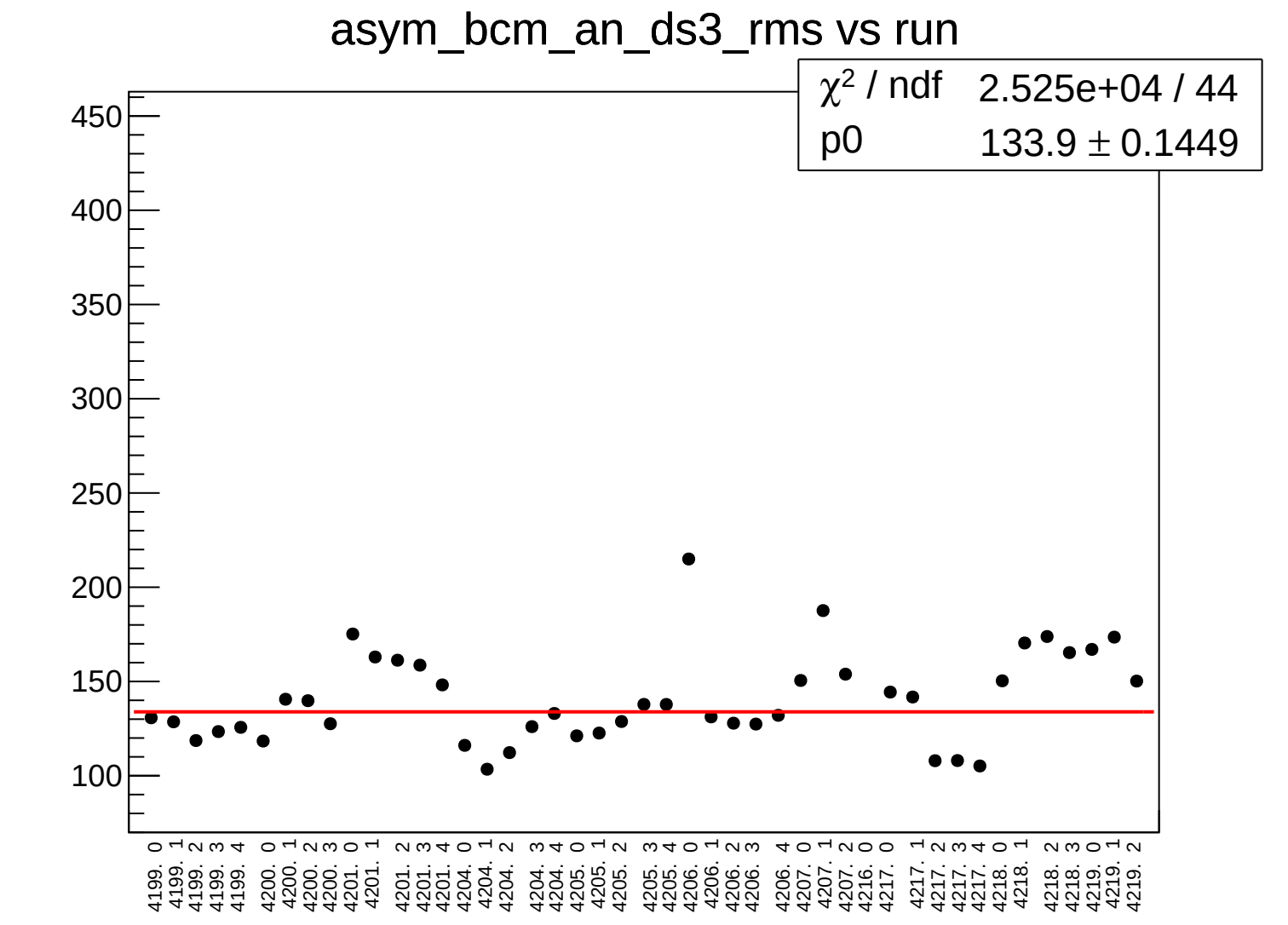

asym_atr1l2_dd_rms vs run
χ² / ndf 2.46e+04 / 44
p0 492.7 ± 0.5332
600
550
500
450
400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

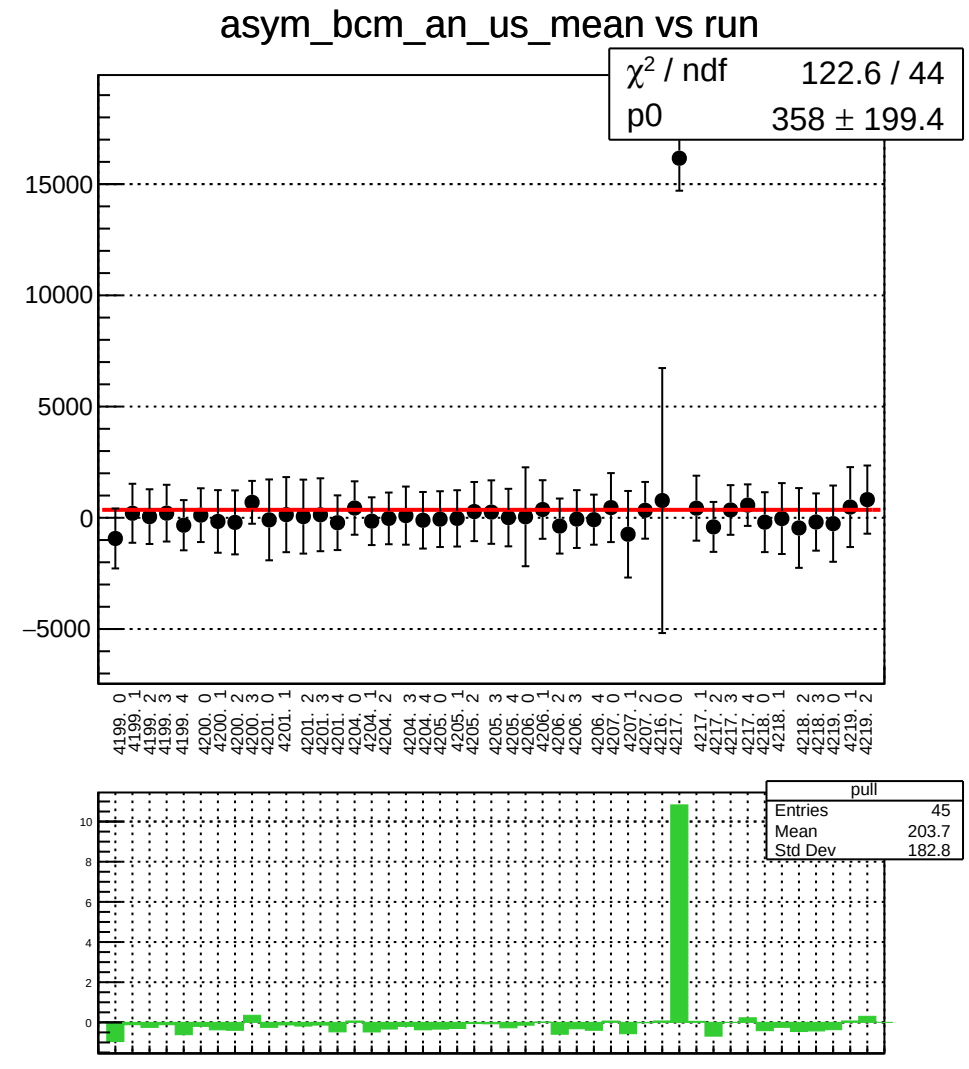

asym_bcm_an_ds_mean vs run
χ² / ndf 107.7 / 44
p0 388.8 ± 202.1
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 590.3
Std Dev 569.7
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2217
Std Dev 0.371
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

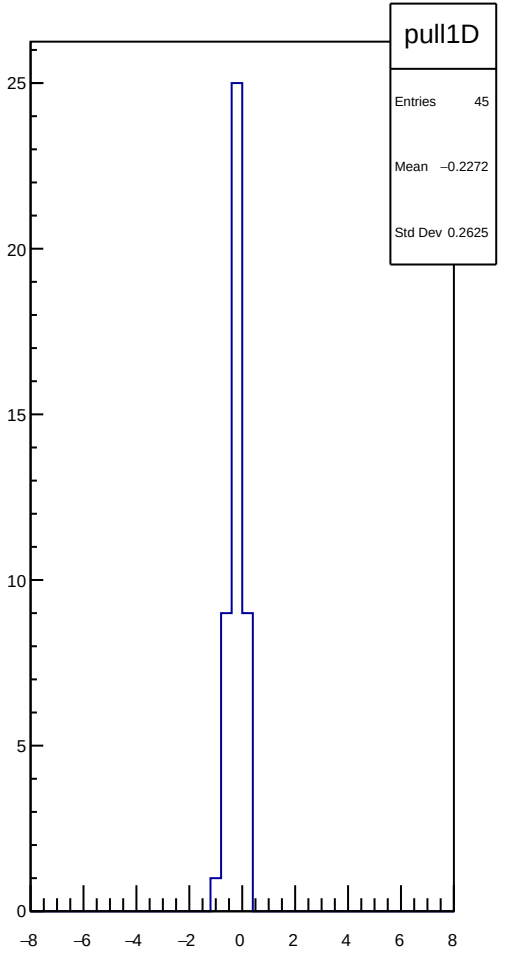

asym_bcm_an_ds_rms vs run
χ^2 / ndf 2.514e+04 / 44
p0 132 ± 0.1429
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

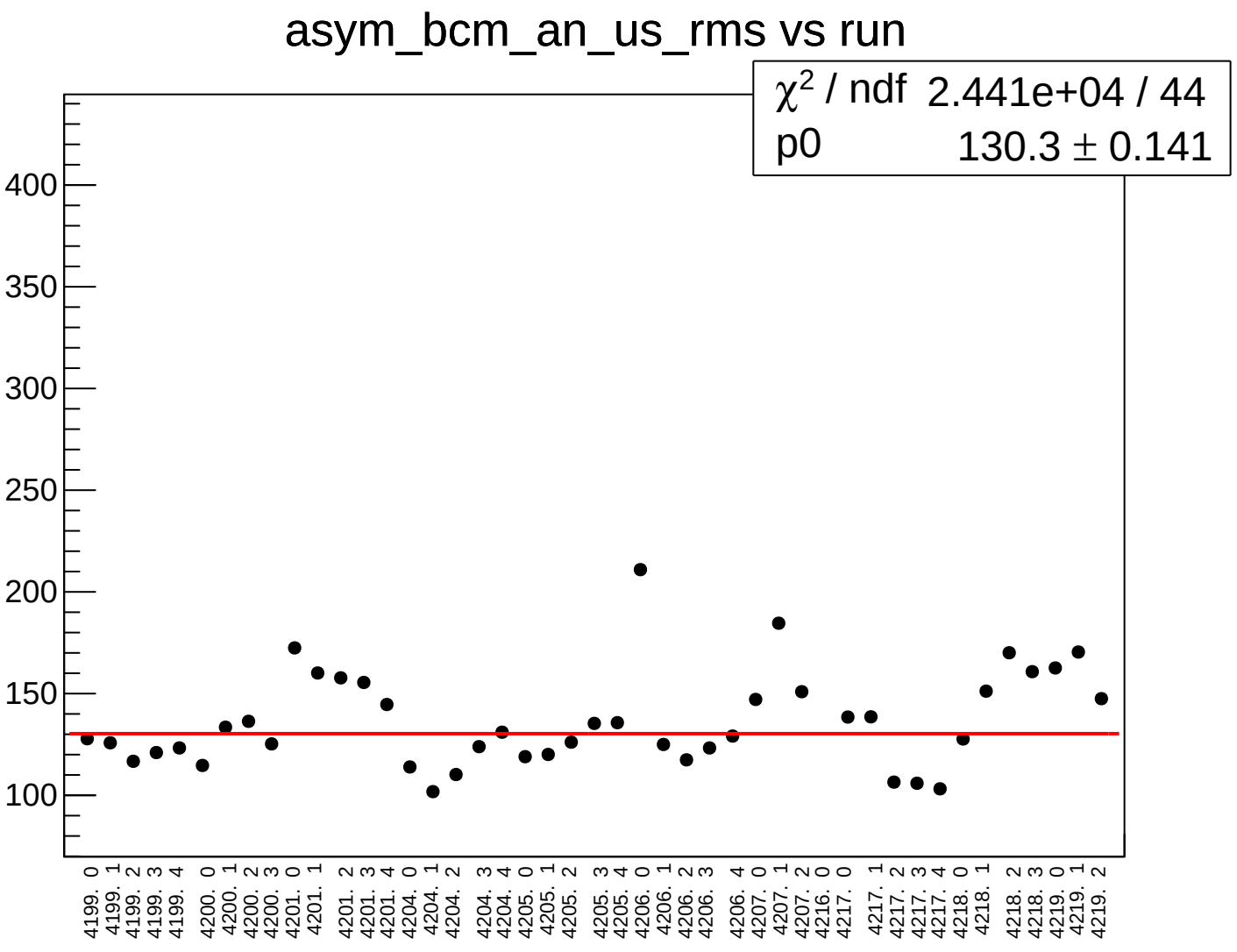

asym_bcm_an_ds3_mean vs run
χ² / ndf 109.8 / 44
p0 405.8 ± 205
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 419.1
Std Dev 398.7
10
8
6
4
2
0

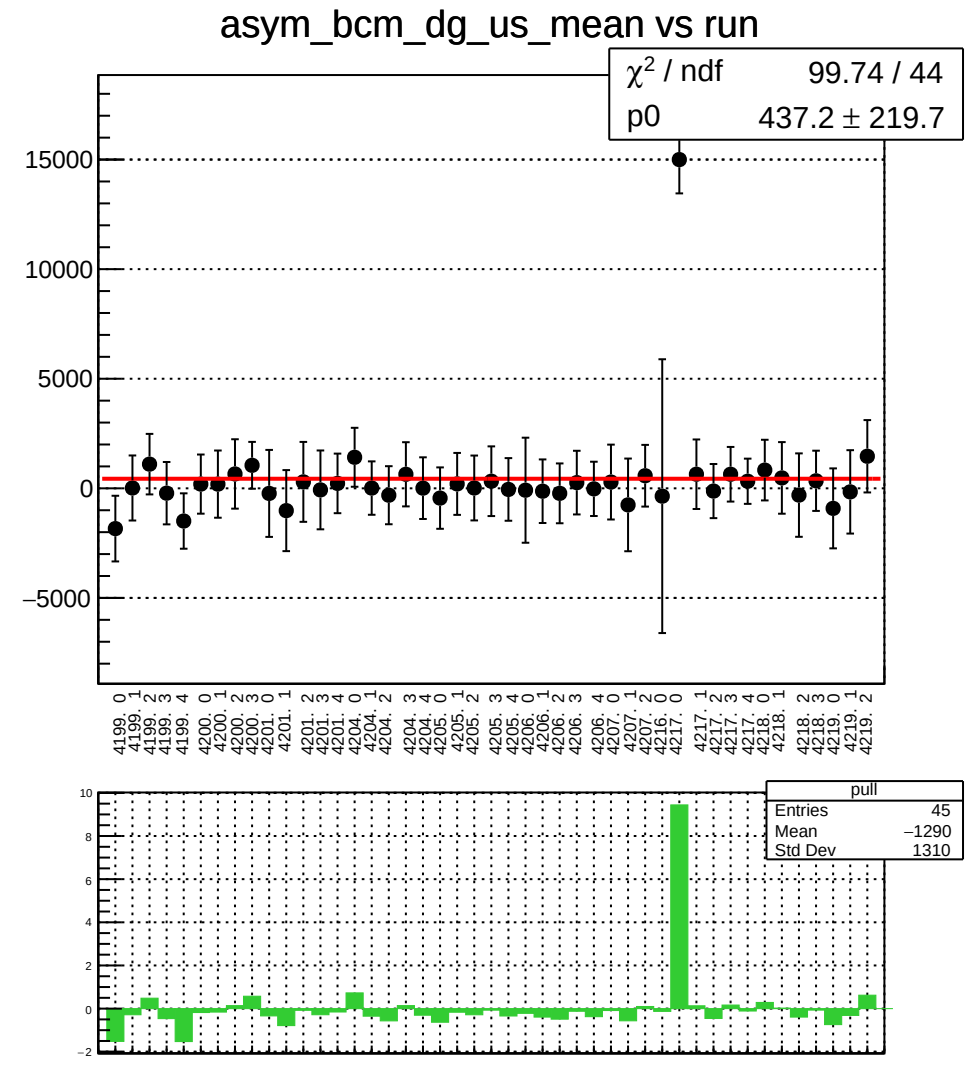

pull1D
Entries 45
Mean −0.2213
Std Dev 0.3743
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

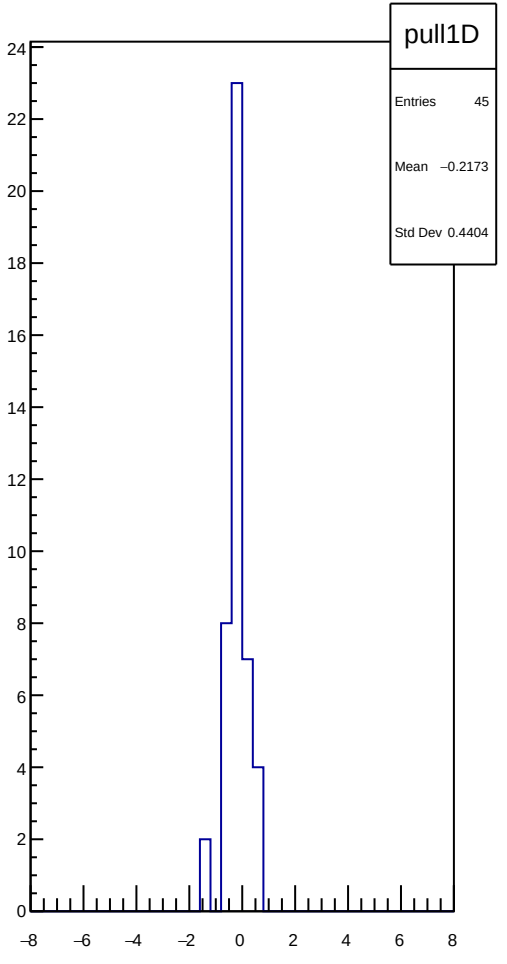

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2.525e+04 / 44
p0 133.9 ± 0.1449
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

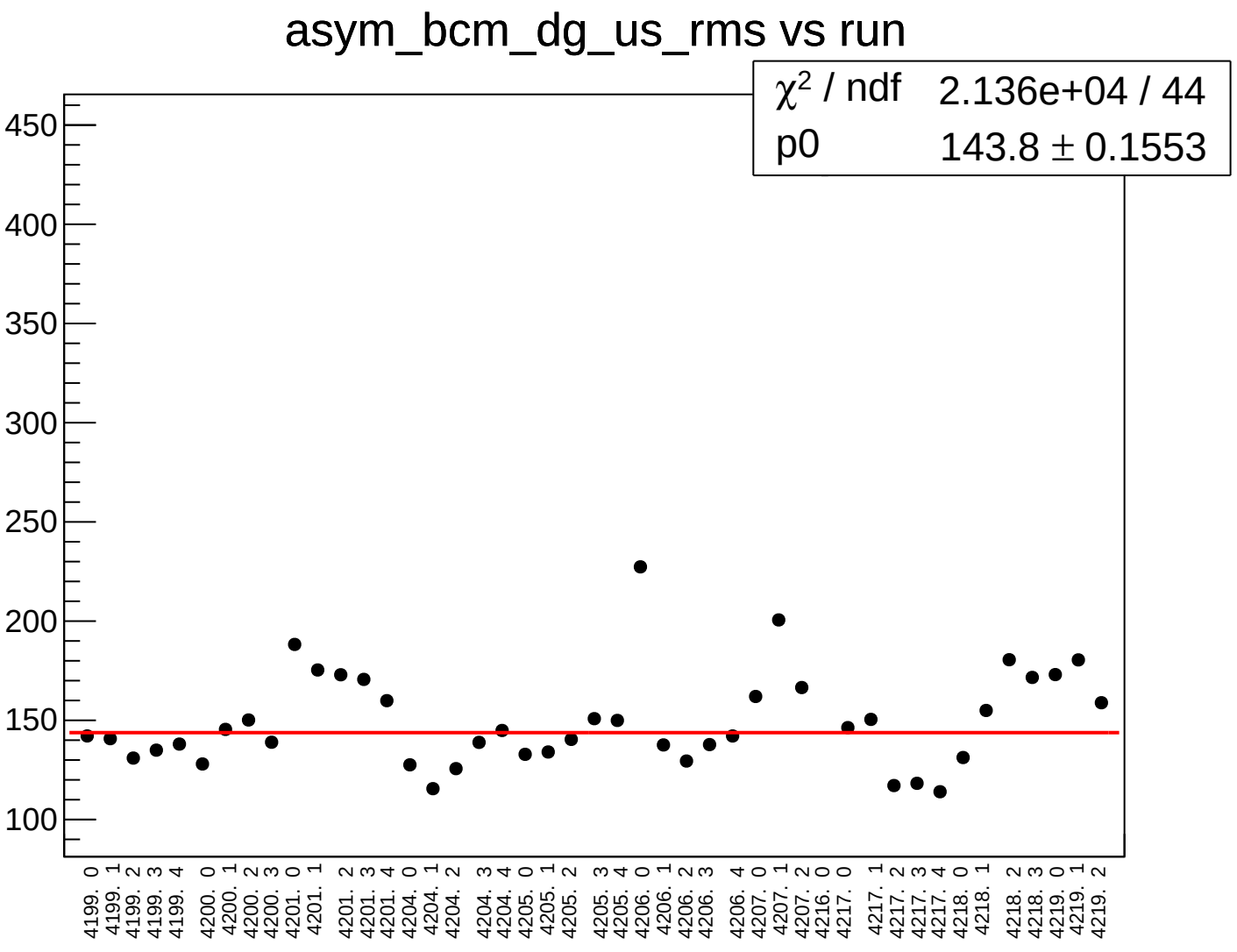

asym_bcm_an_us_mean vs run
χ² / ndf 122.6 / 44
p0 358 ± 199.4
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 203.7
Std Dev 182.8
10
8
6
4
2
0

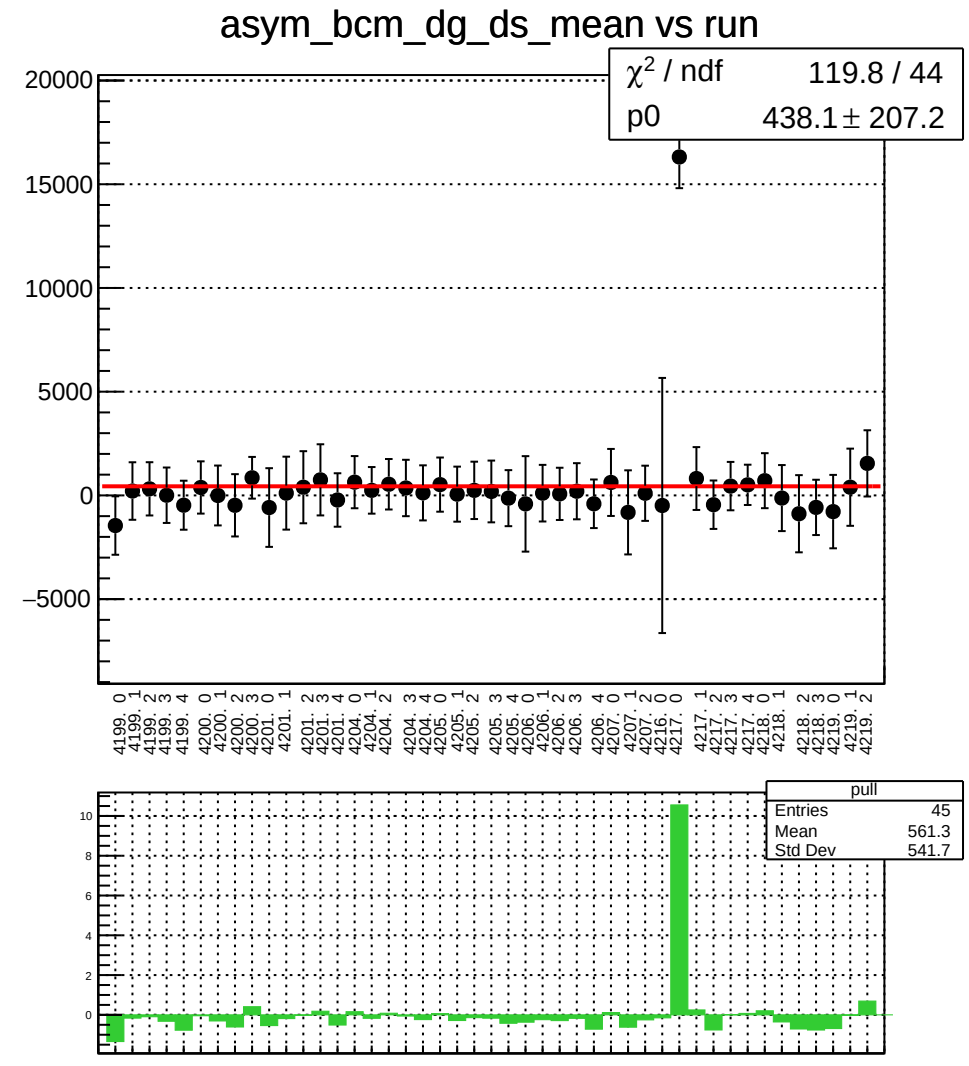

pull1D
Entries 45
Mean −0.2272
Std Dev 0.2625
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

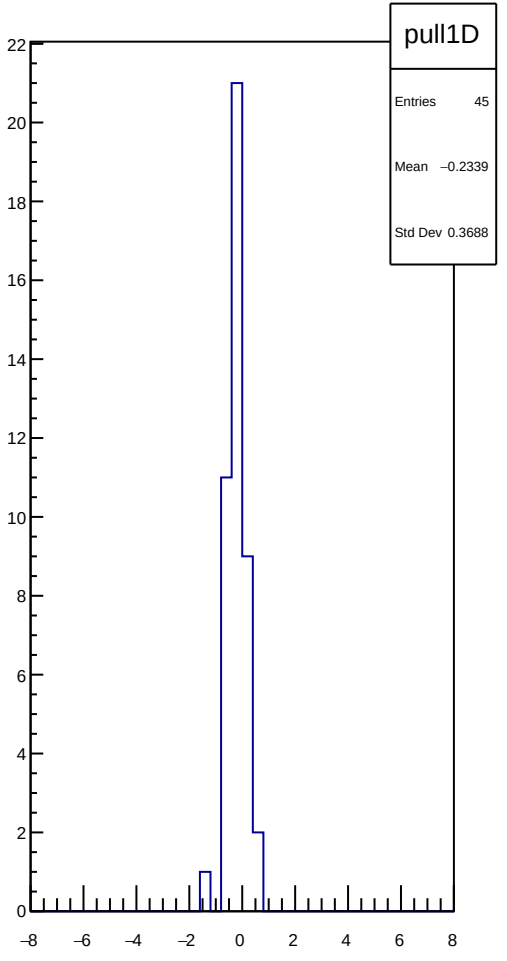

asym_bcm_an_us_rms vs run
χ² / ndf 2.441e+04 / 44
p0 130.3 ± 0.141
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

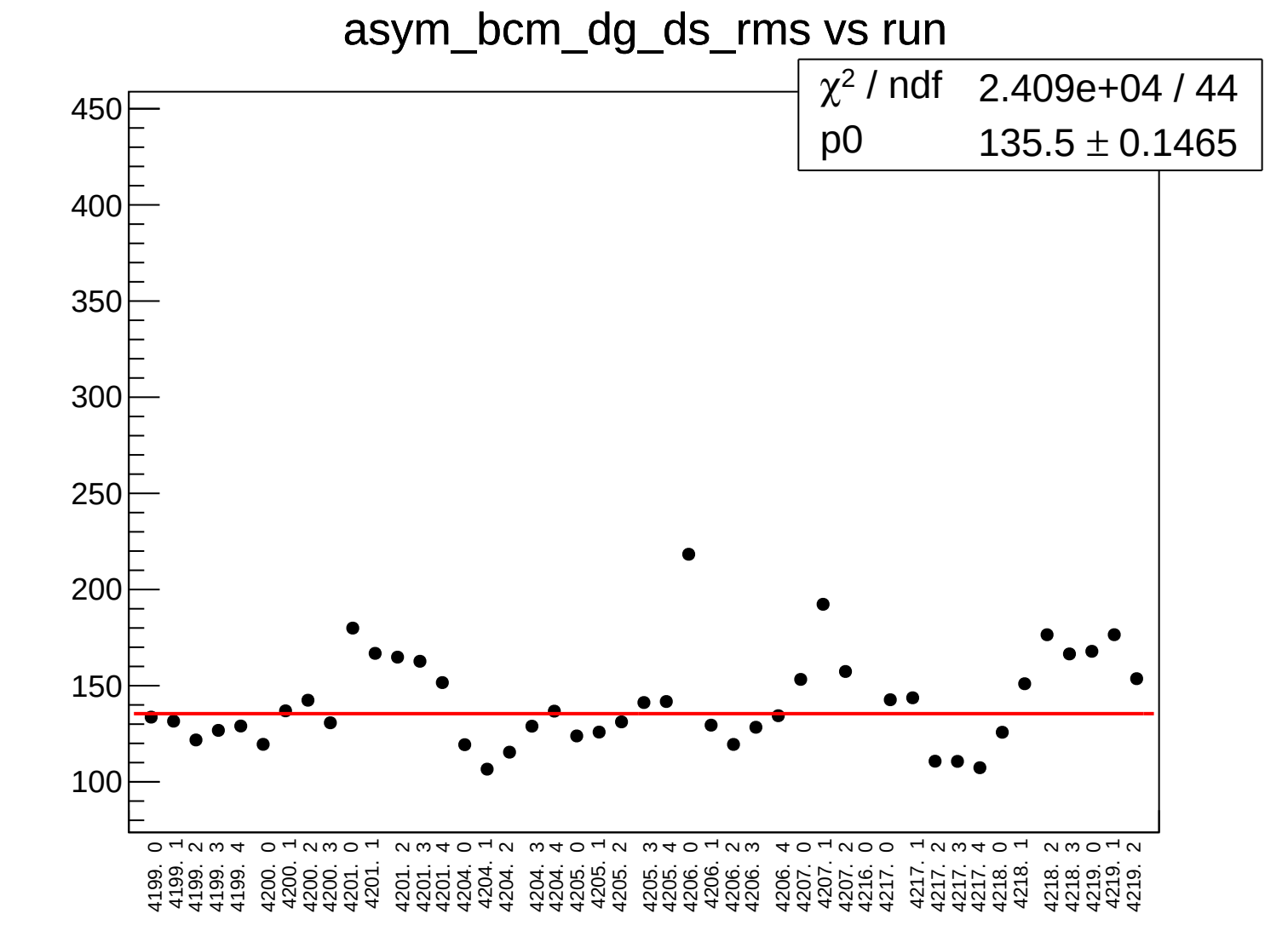

asym_bcm_dg_us_mean vs run
χ² / ndf 99.74 / 44
p0 437.2 ± 219.7
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1290
Std Dev 1310
10
8
6
4
2
0
−2

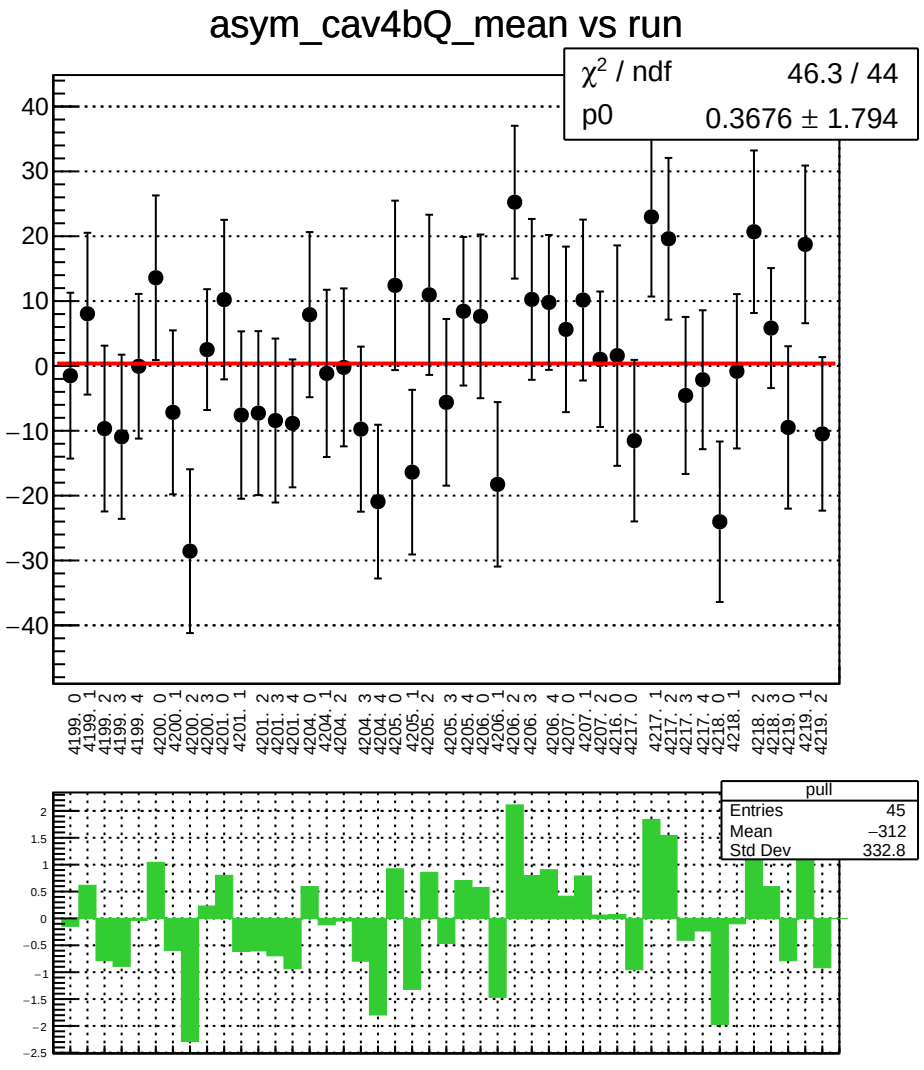

pull1D
Entries 45
Mean −0.2173
Std Dev 0.4404
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

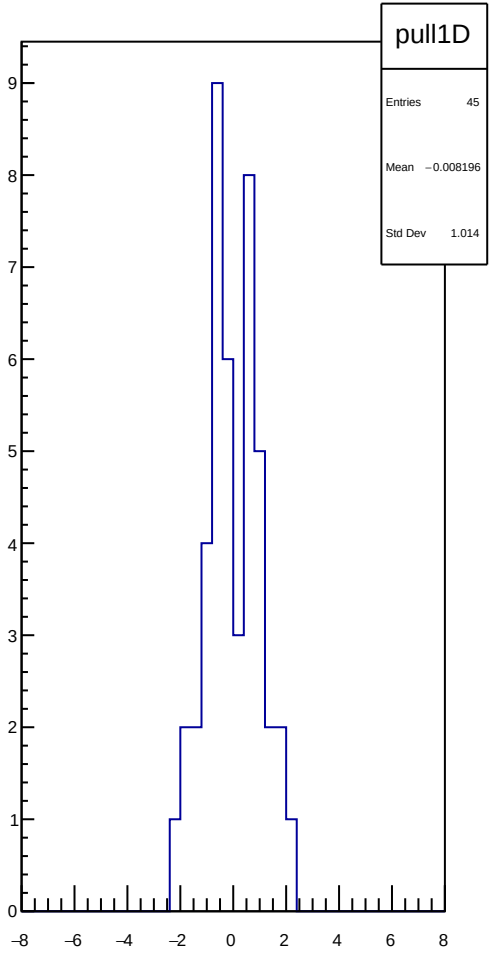

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2.136e+04 / 44
p0 143.8 ± 0.1553
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

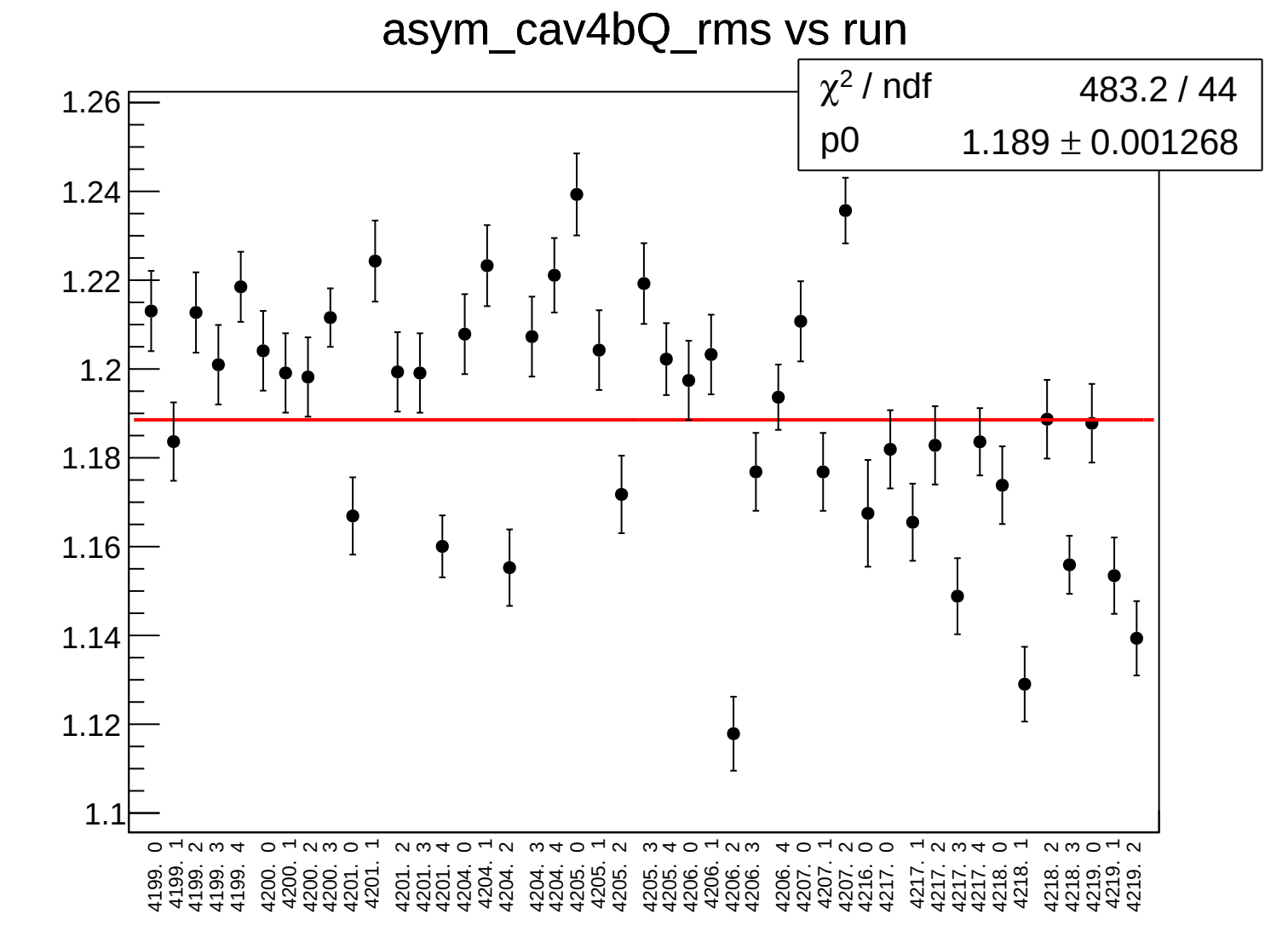

asym_bcm_dg_ds_mean vs run
χ² / ndf 119.8 / 44
p0 438.1 ± 207.2
20000
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 561.3
Std Dev 541.7
10
8
6
4
2
0

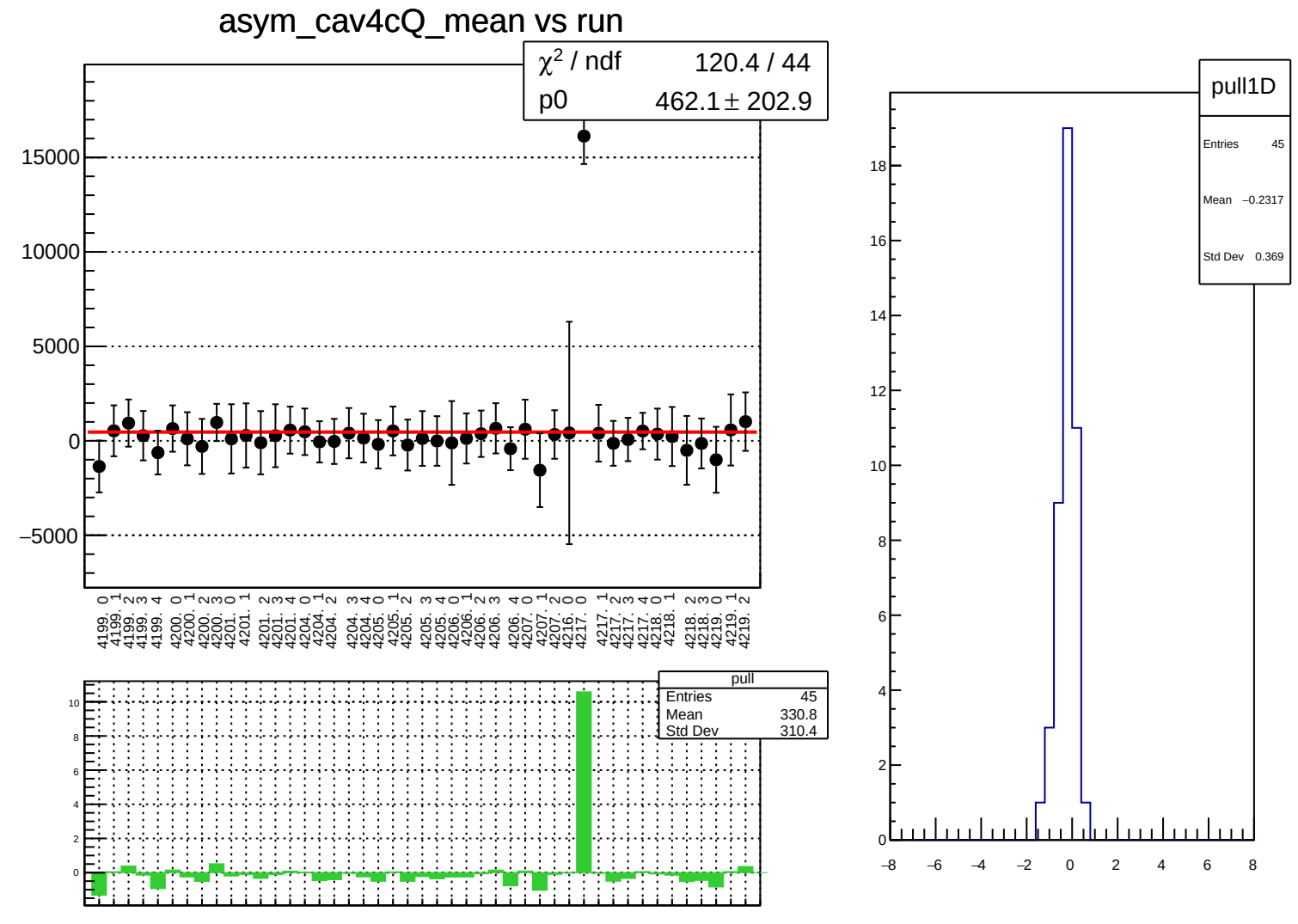

pull1D
Entries 45
Mean −0.2339
Std Dev 0.3688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

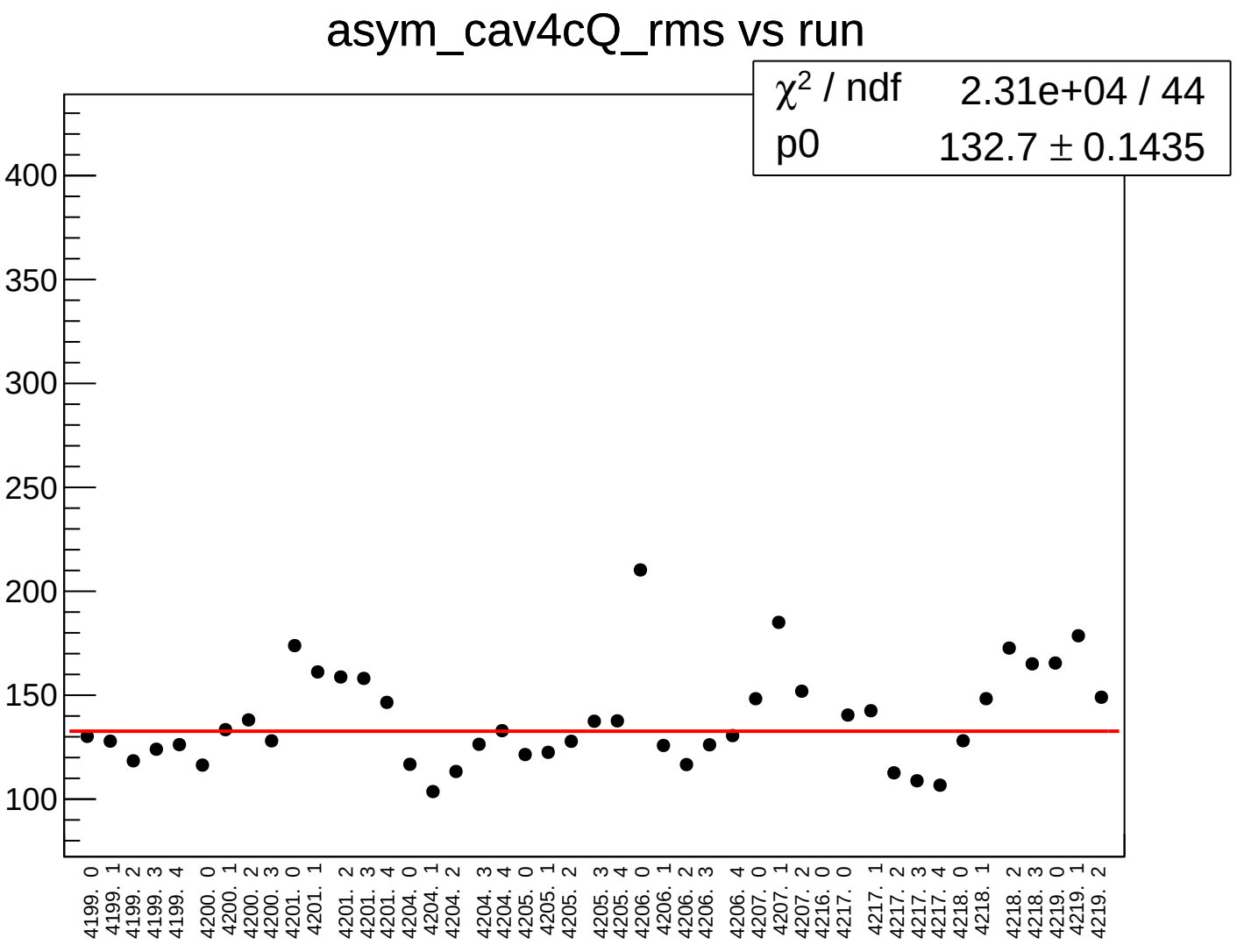

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2.409e+04 / 44
p0 135.5 ± 0.1465
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

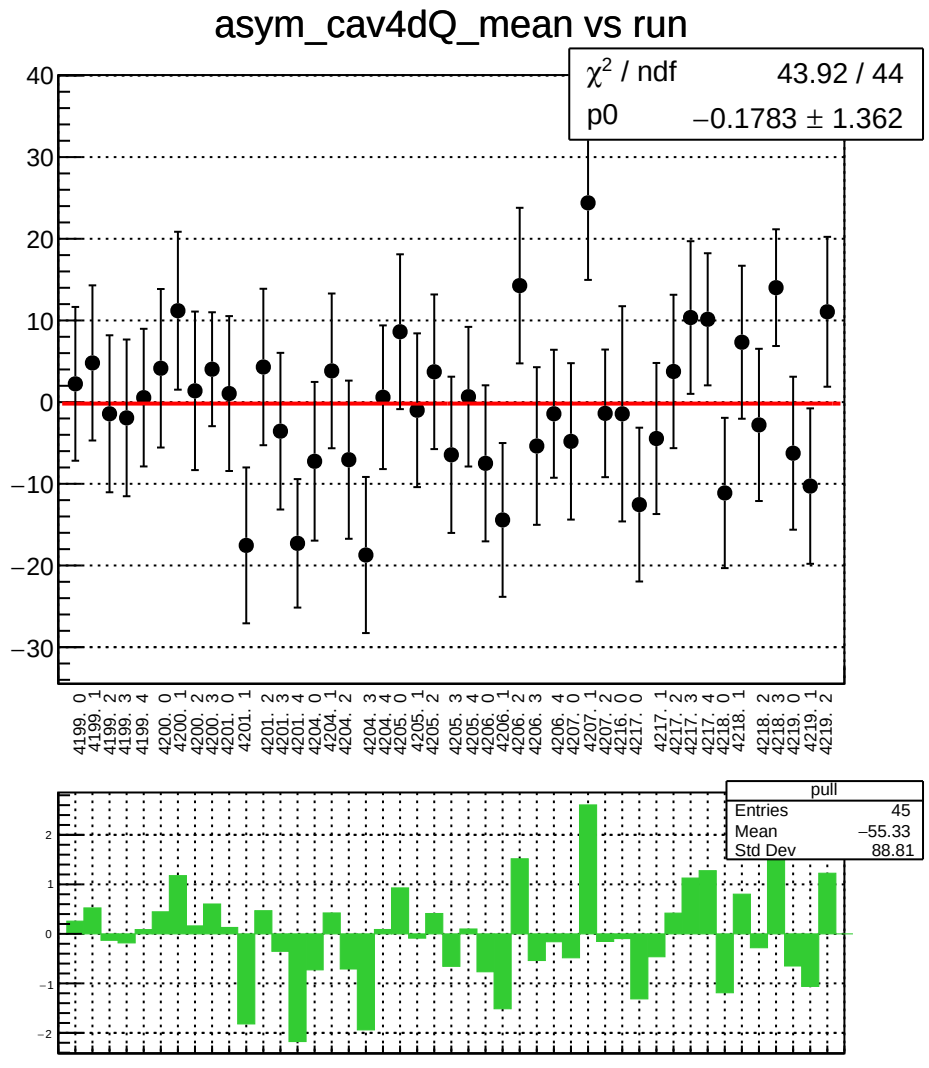

asym_cav4bQ_mean vs run
χ² / ndf 46.3 / 44
p0 0.3676 ± 1.794
pull
Entries 45
Mean −312
Std Dev 332.8

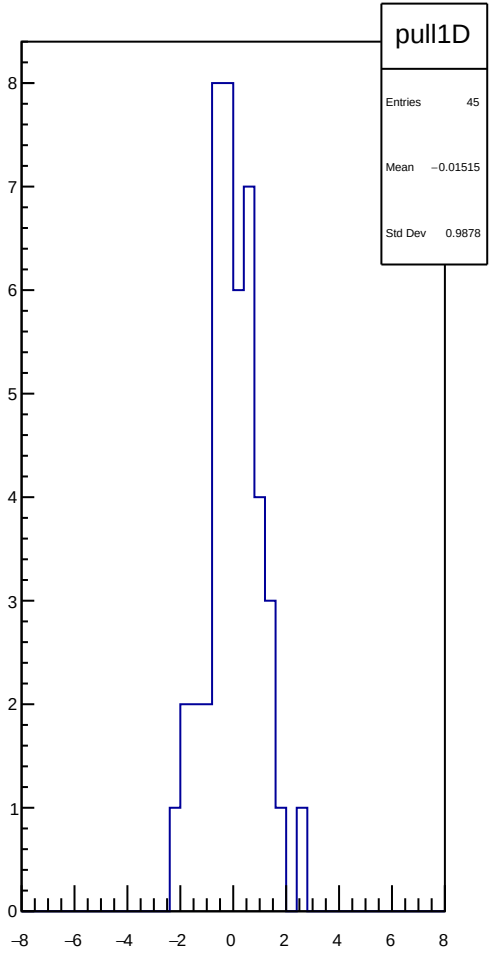

pull1D
Entries 45
Mean −0.008196
Std Dev 1.014

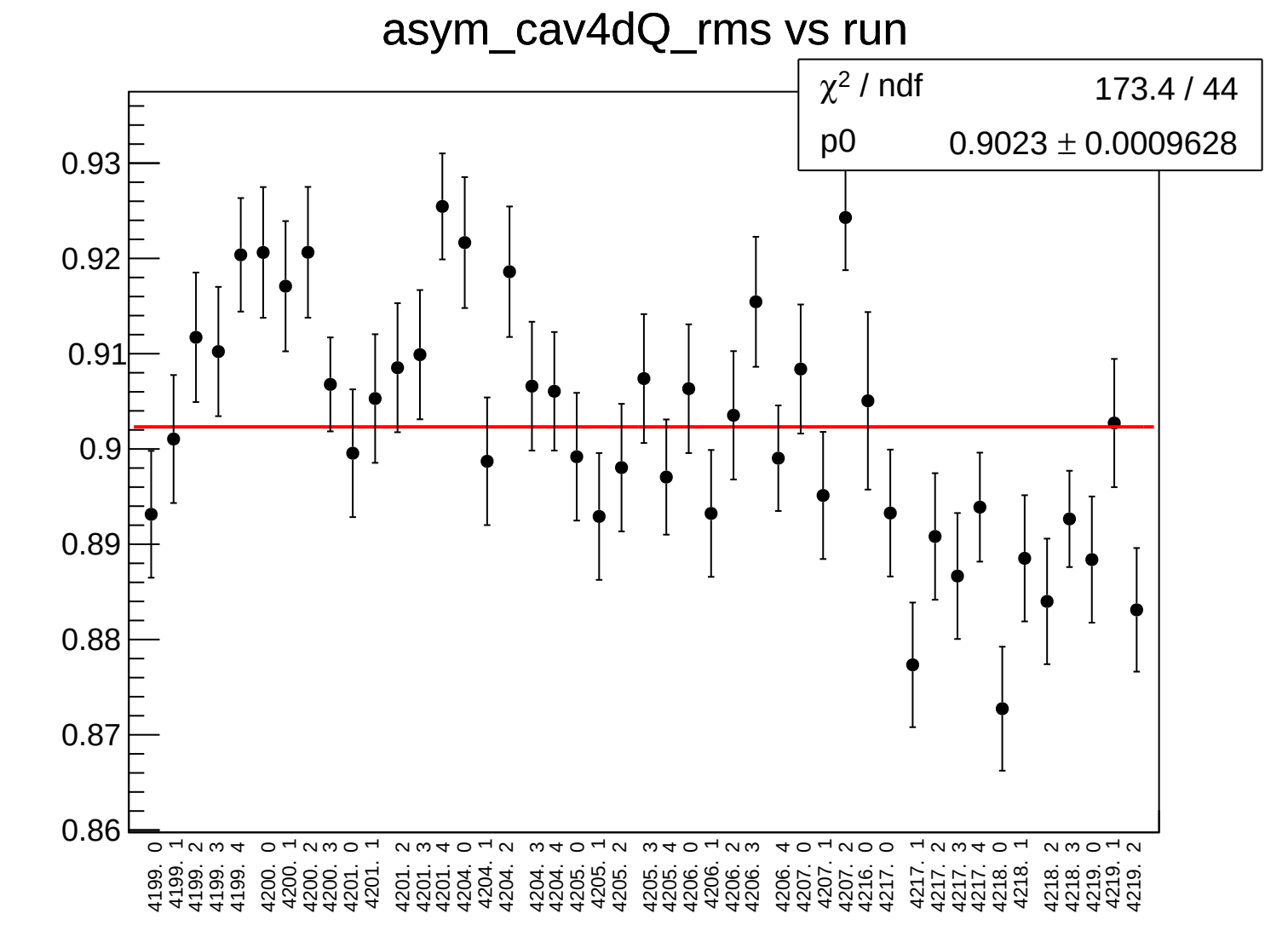

asym_cav4bQ_rms vs run
χ² / ndf 483.2 / 44
p0 1.189 ± 0.001268
1.26
1.24
1.22
1.2
1.18
1.16
1.14
1.12
1.1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

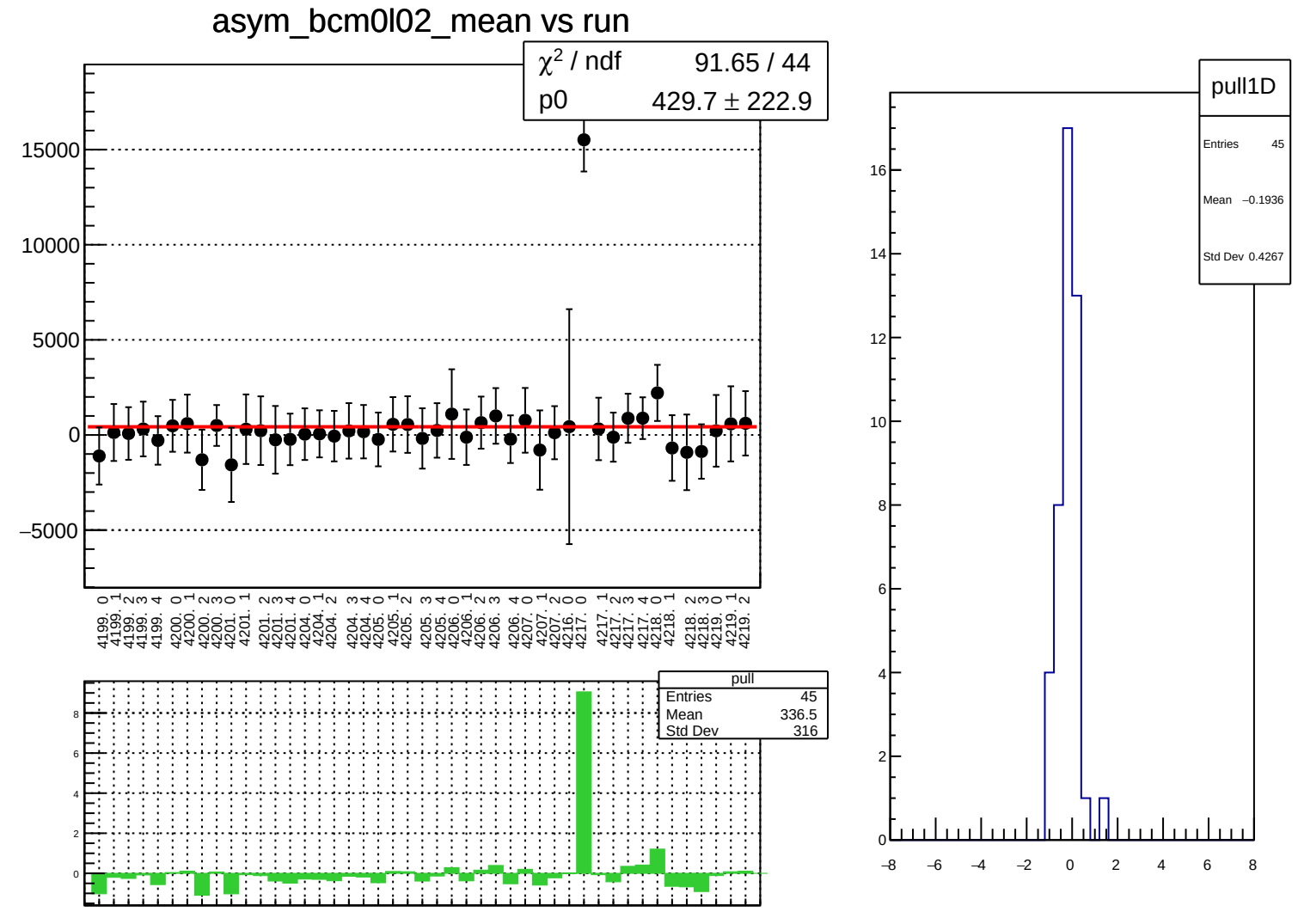

asym_cav4cQ_mean vs run
χ² / ndf 120.4 / 44
p0 462.1 ± 202.9
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 330.8
Std Dev 310.4
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2317
Std Dev 0.369
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

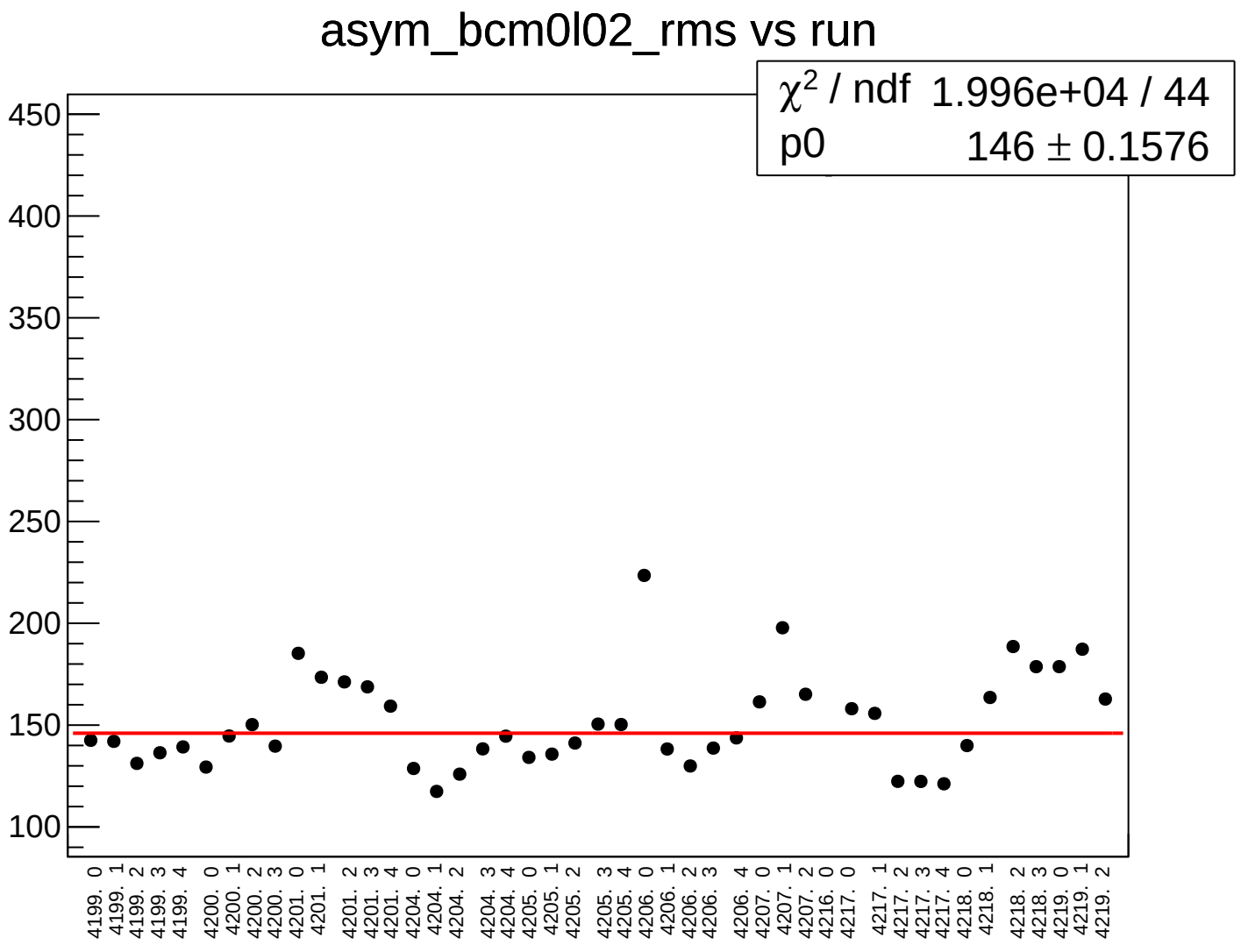

asym_cav4cQ_rms vs run
χ² / ndf 2.31e+04 / 44
p0 132.7 ± 0.1435
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

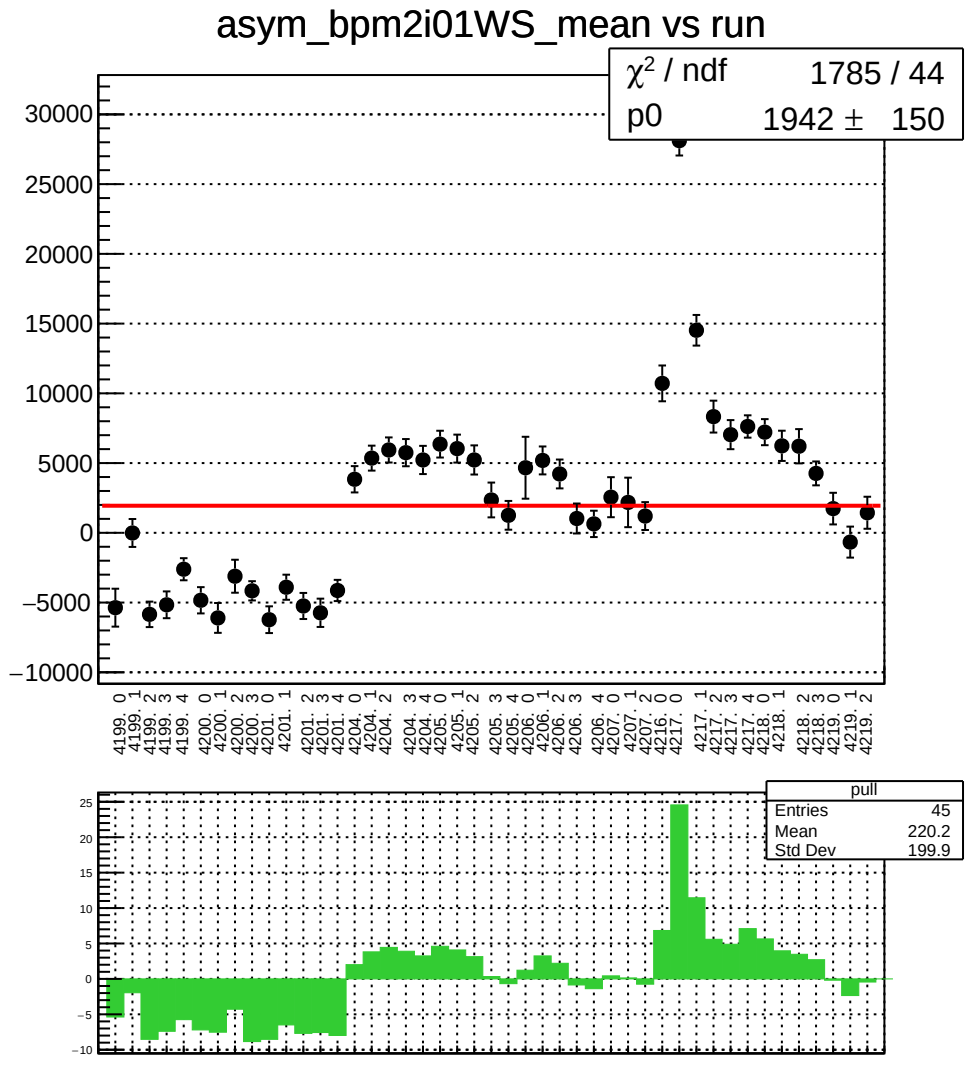

asym_cav4dQ_mean vs run
χ² / ndf 43.92 / 44
p0 −0.1783 ± 1.362
pull
Entries 45
Mean −55.33
Std Dev 88.81

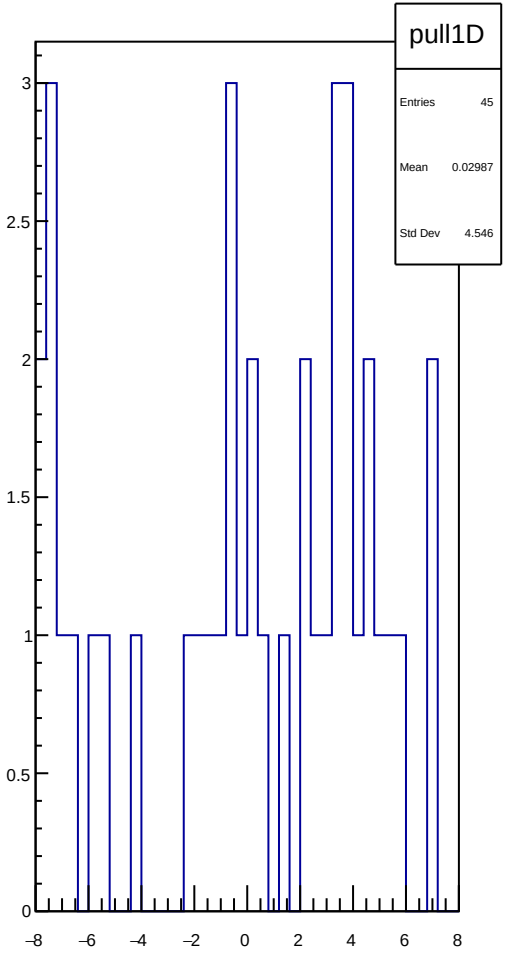

pull1D
Entries 45
Mean −0.01515
Std Dev 0.9878

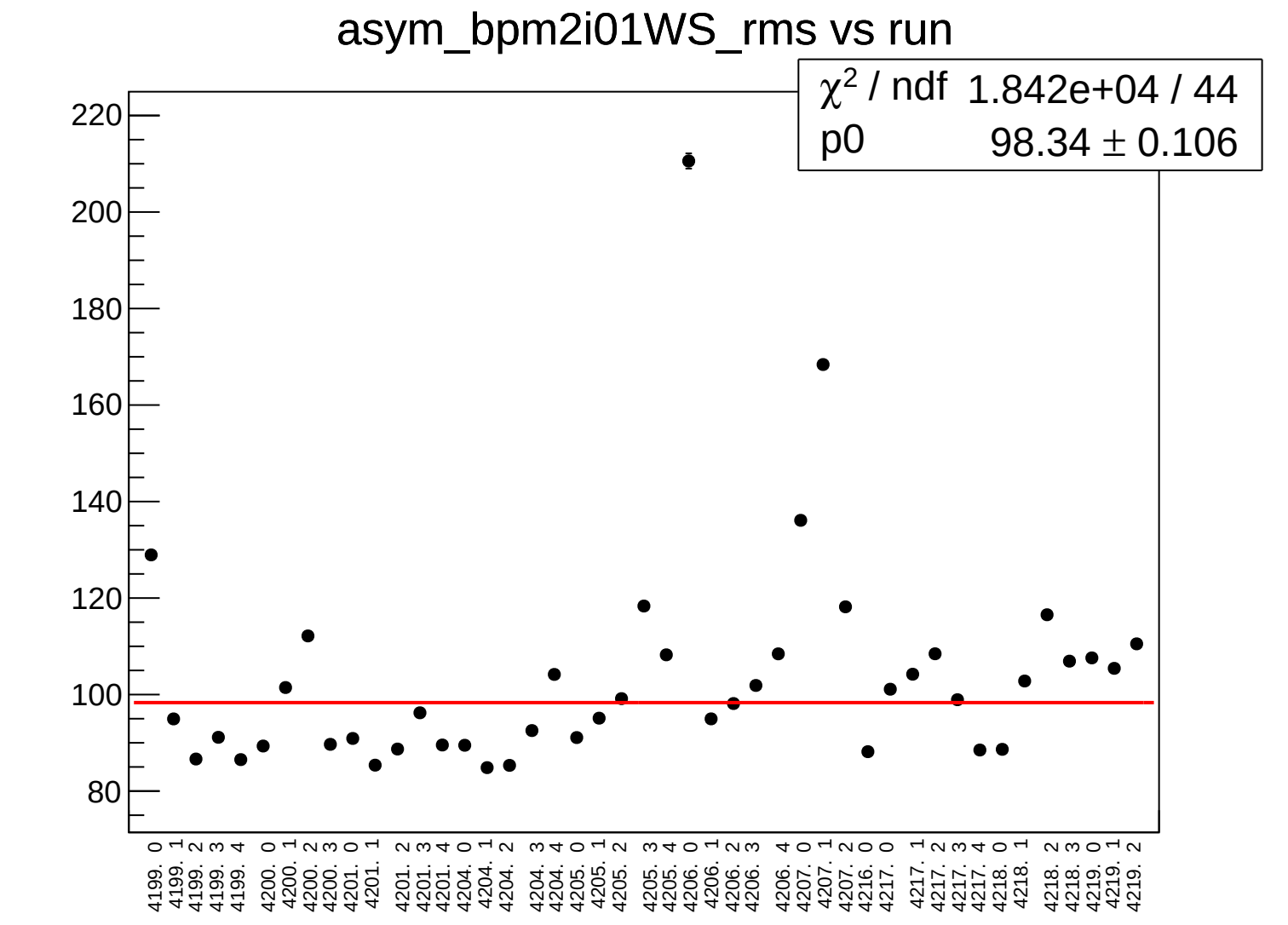

asym_cav4dQ_rms vs run
χ² / ndf 173.4 / 44
p0 0.9023 ± 0.0009628
0.93
0.92
0.91
0.9
0.89
0.88
0.87
0.86
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

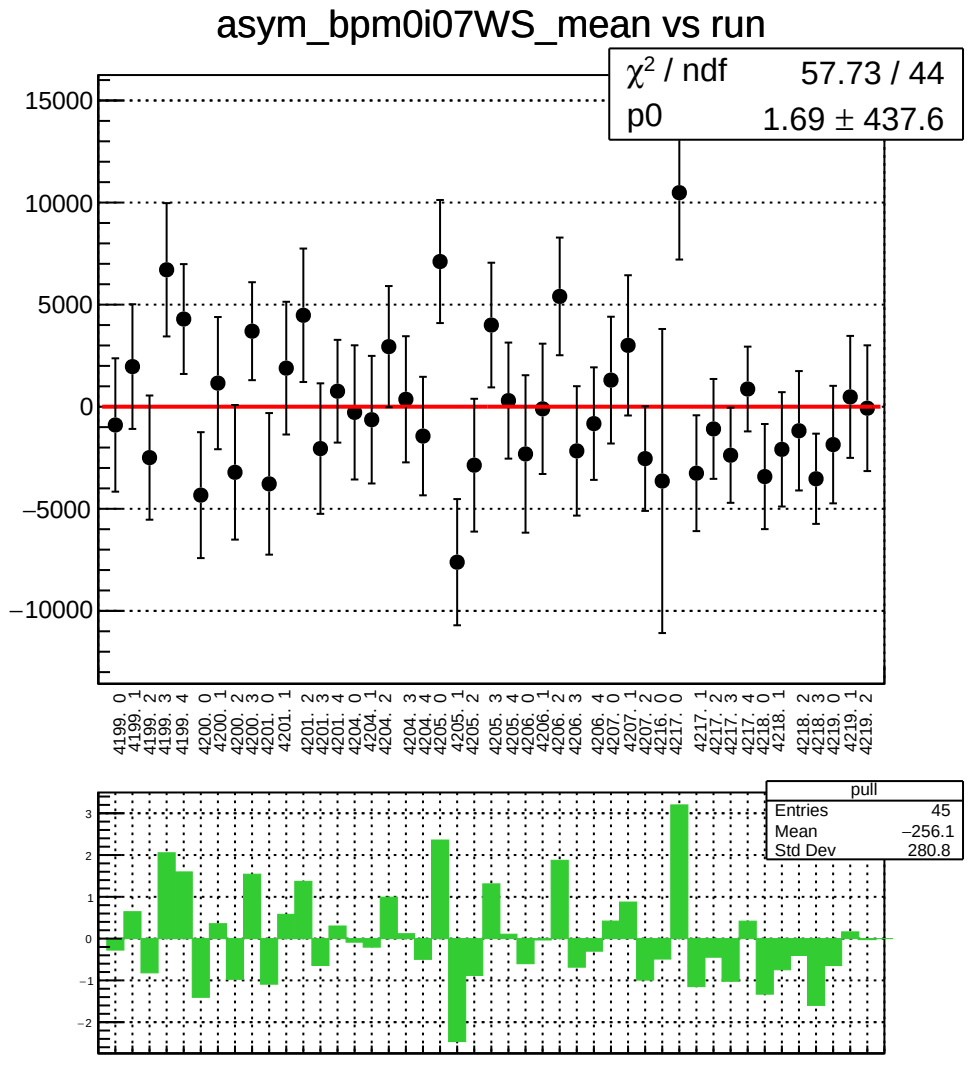

asym_bcm0l02_mean vs run
χ² / ndf 91.65 / 44
p0 429.7 ± 222.9
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 336.5
Std Dev 316
8
6
4
2
0
pull1D
Entries 45
Mean −0.1936
Std Dev 0.4267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

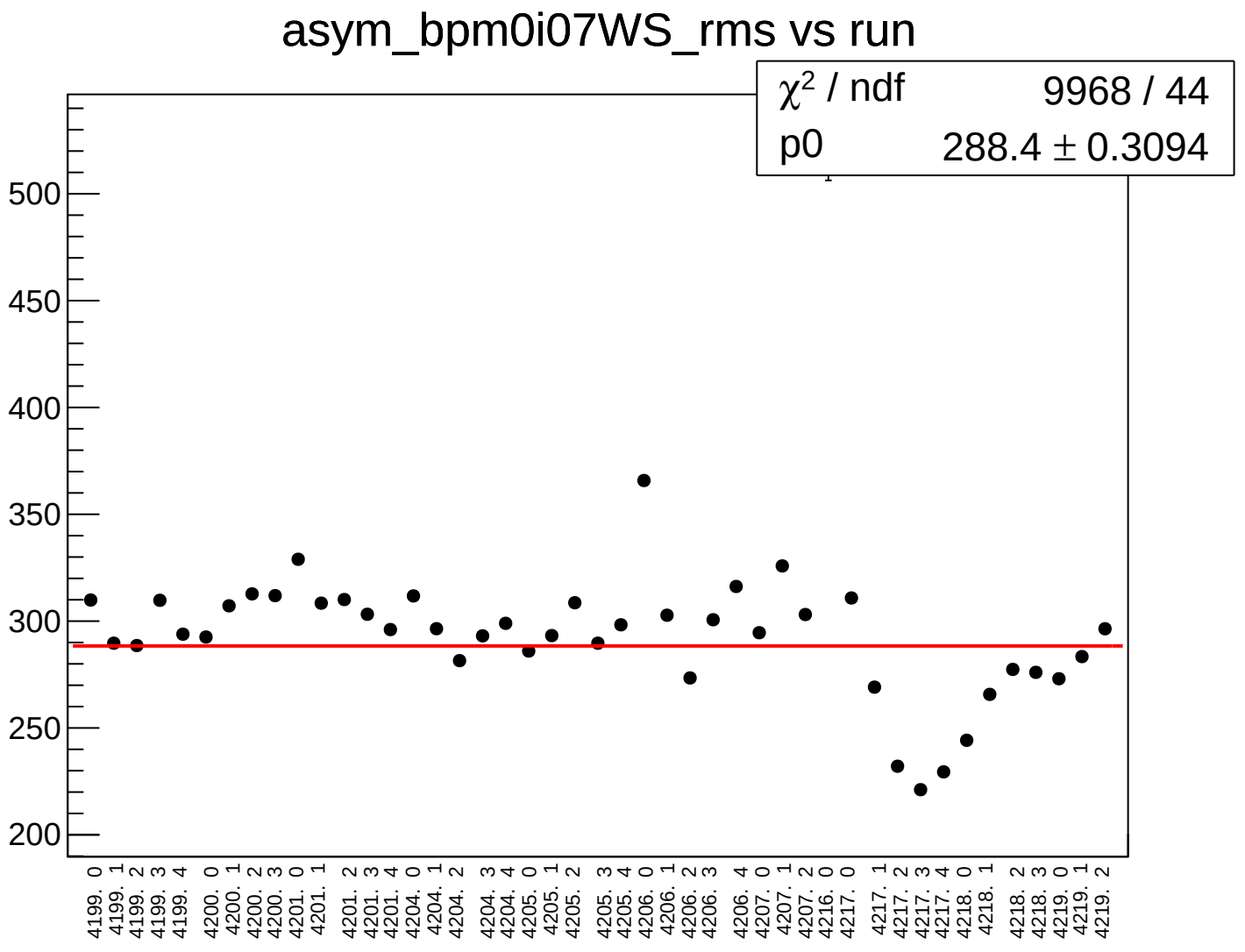

asym_bcm0l02_rms vs run
χ² / ndf 1.996e+04 / 44
p0 146 ± 0.1576
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

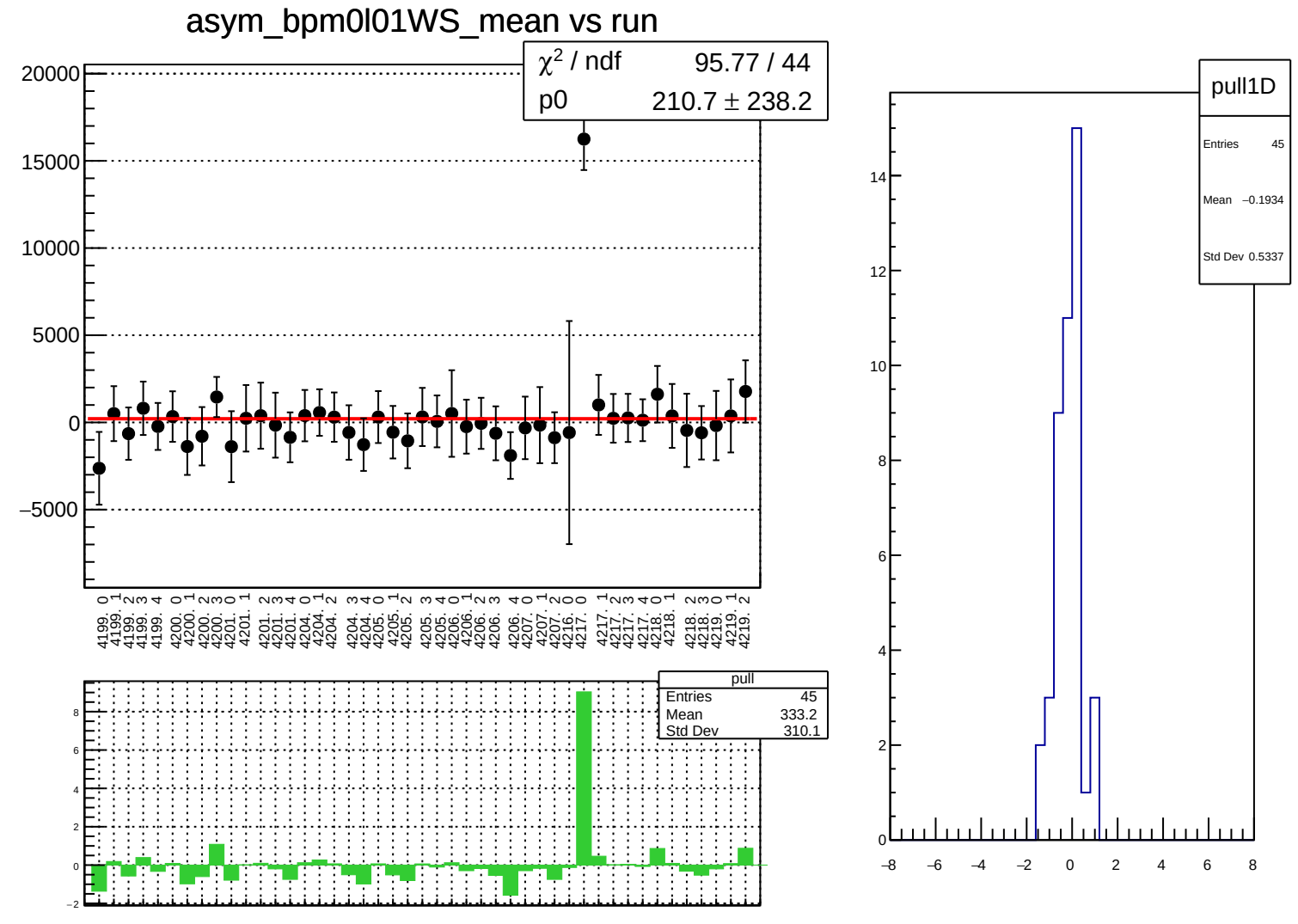

asym_bpm2i01WS_mean vs run
χ² / ndf 1785 / 44
p0 1942 ± 150
pull
Entries 45
Mean 220.2
Std Dev 199.9

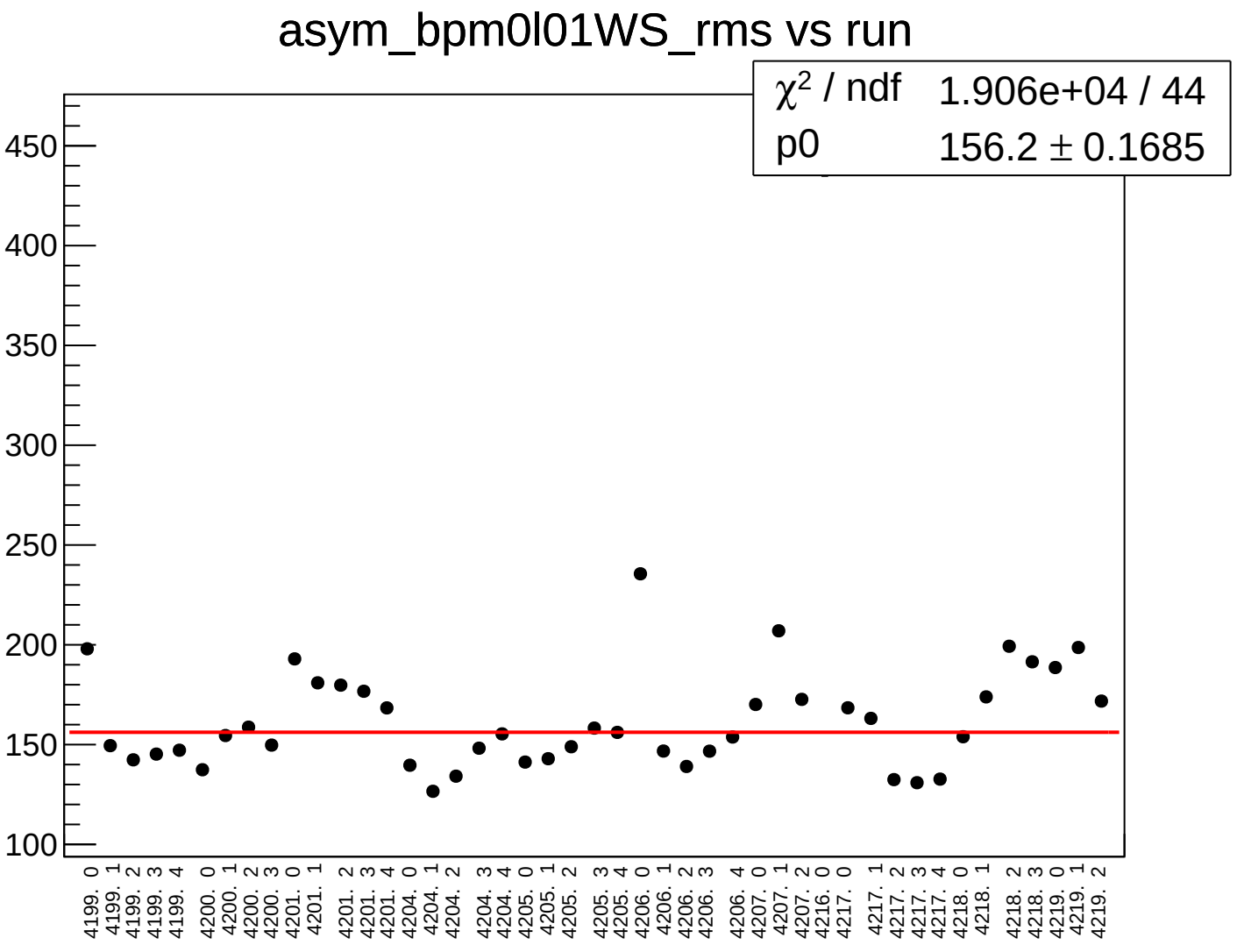

pull1D
Entries 45
Mean 0.02987
Std Dev 4.546

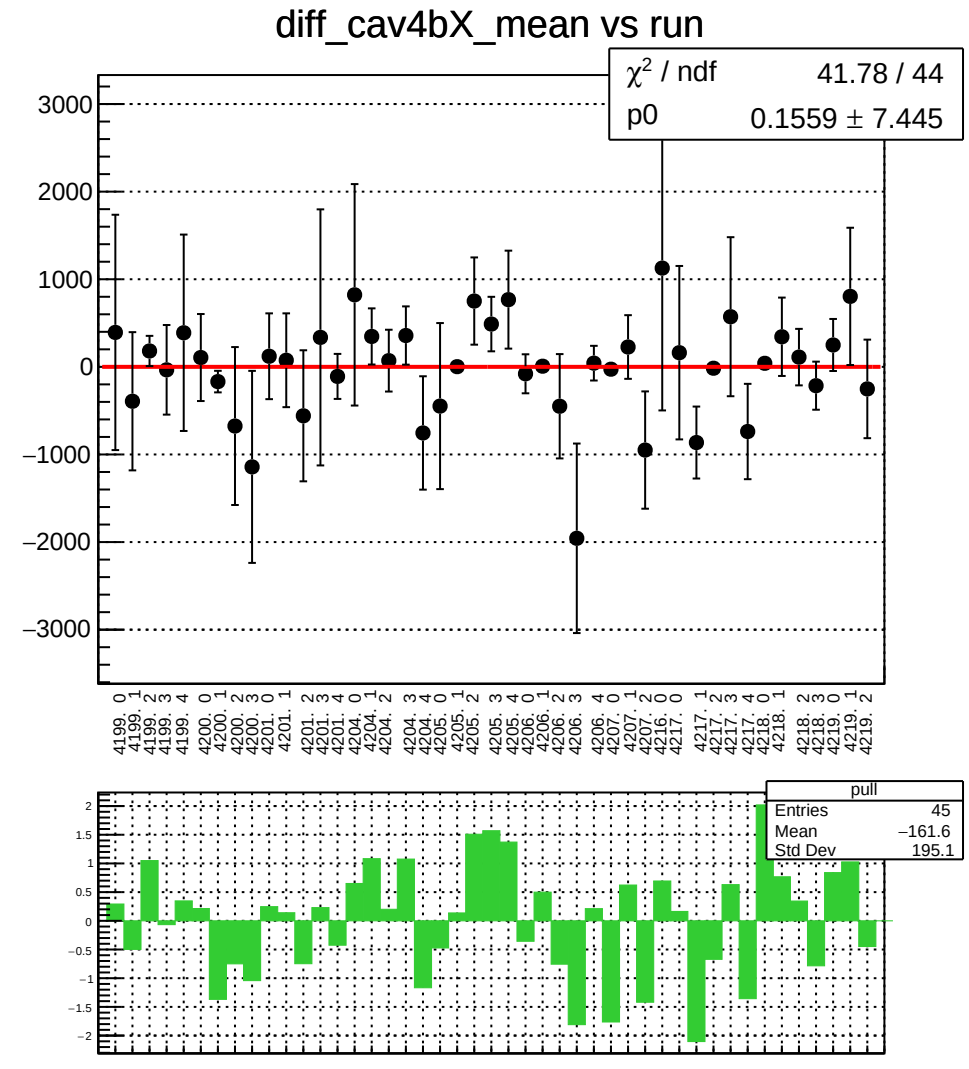

asym_bpm2i01WS_rms vs run
χ² / ndf 1.842e+04 / 44
p0 98.34 ± 0.106
220
200
180
160
140
120
100
80
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

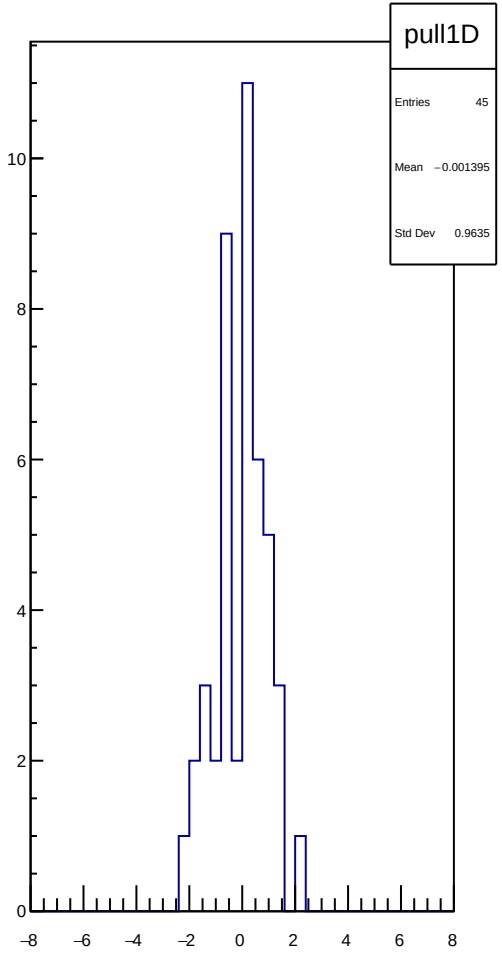

asym_bpm0i07WS_mean vs run
χ² / ndf 57.73 / 44
p0 1.69 ± 437.6
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −256.1
Std Dev 280.8
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01055
Std Dev 1.133
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

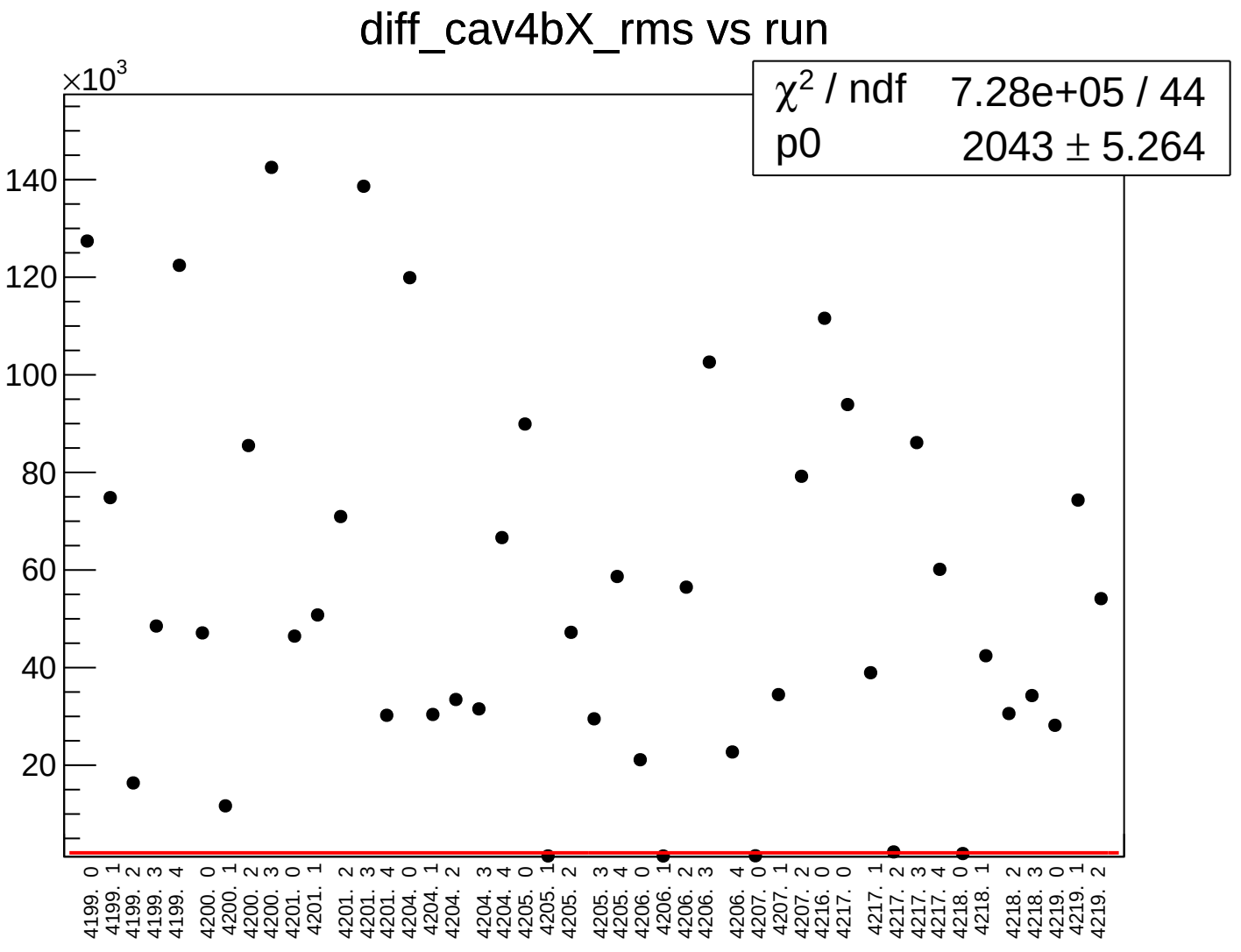

asym_bpm0i07WS_rms vs run
χ² / ndf 9968 / 44
p0 288.4 ± 0.3094
500
450
400
350
300
250
200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

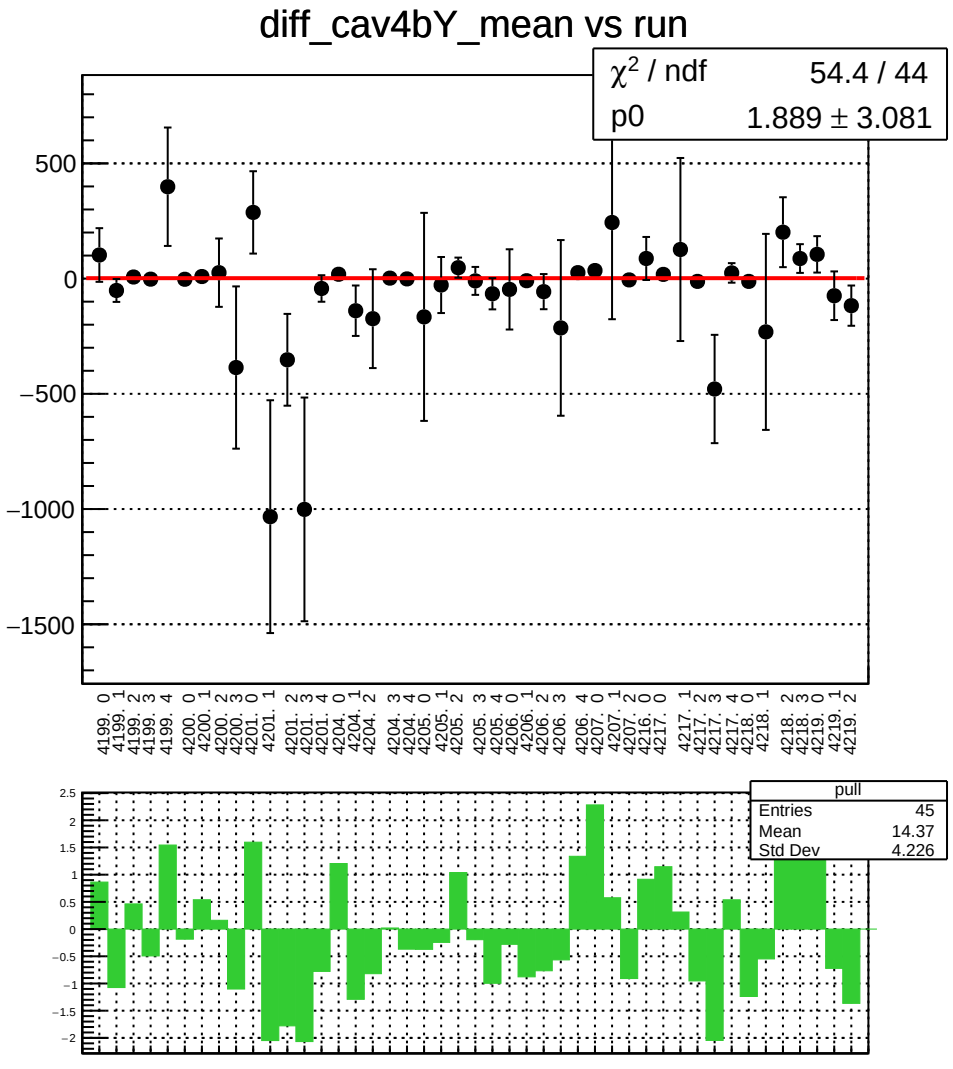

asym_bpm0l01WS_mean vs run
χ² / ndf 95.77 / 44
p0 210.7 ± 238.2
20000
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 333.2
Std Dev 310.1
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.1934
Std Dev 0.5337
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

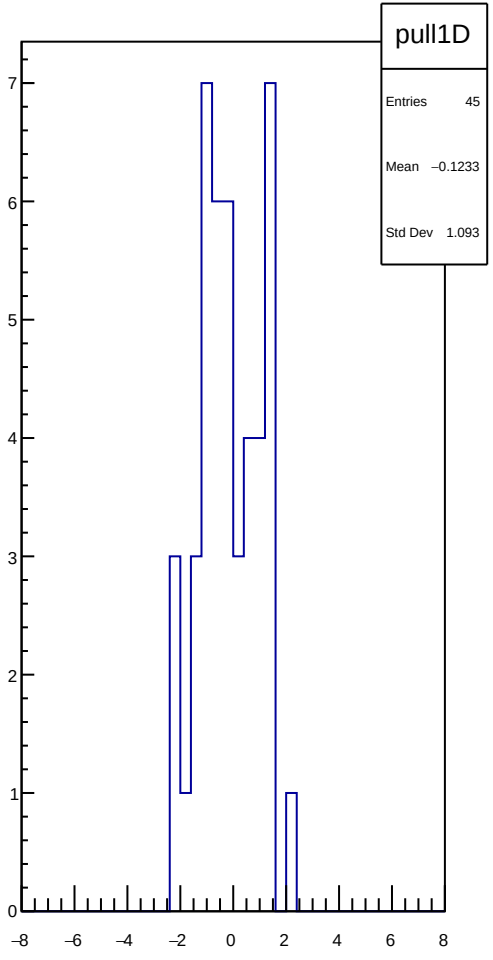

asym_bpm0l01WS_rms vs run
χ² / ndf 1.906e+04 / 44
p0 156.2 ± 0.1685
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

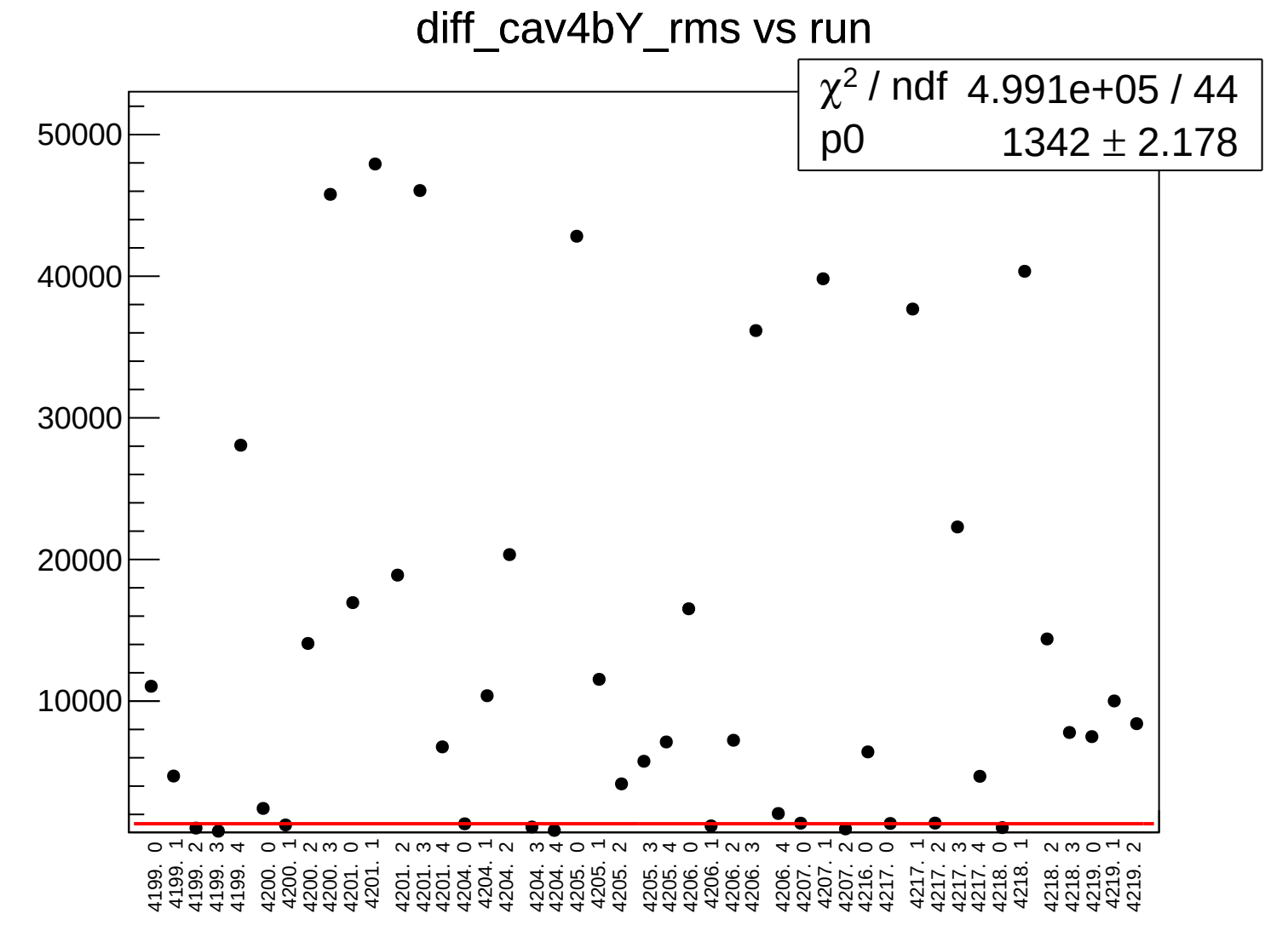

diff_cav4bX_mean vs run
χ^2 / ndf 41.78 / 44
p0 0.1559 ± 7.445
3000
2000
1000
0
−1000
−2000
−3000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −161.6
Std Dev 195.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

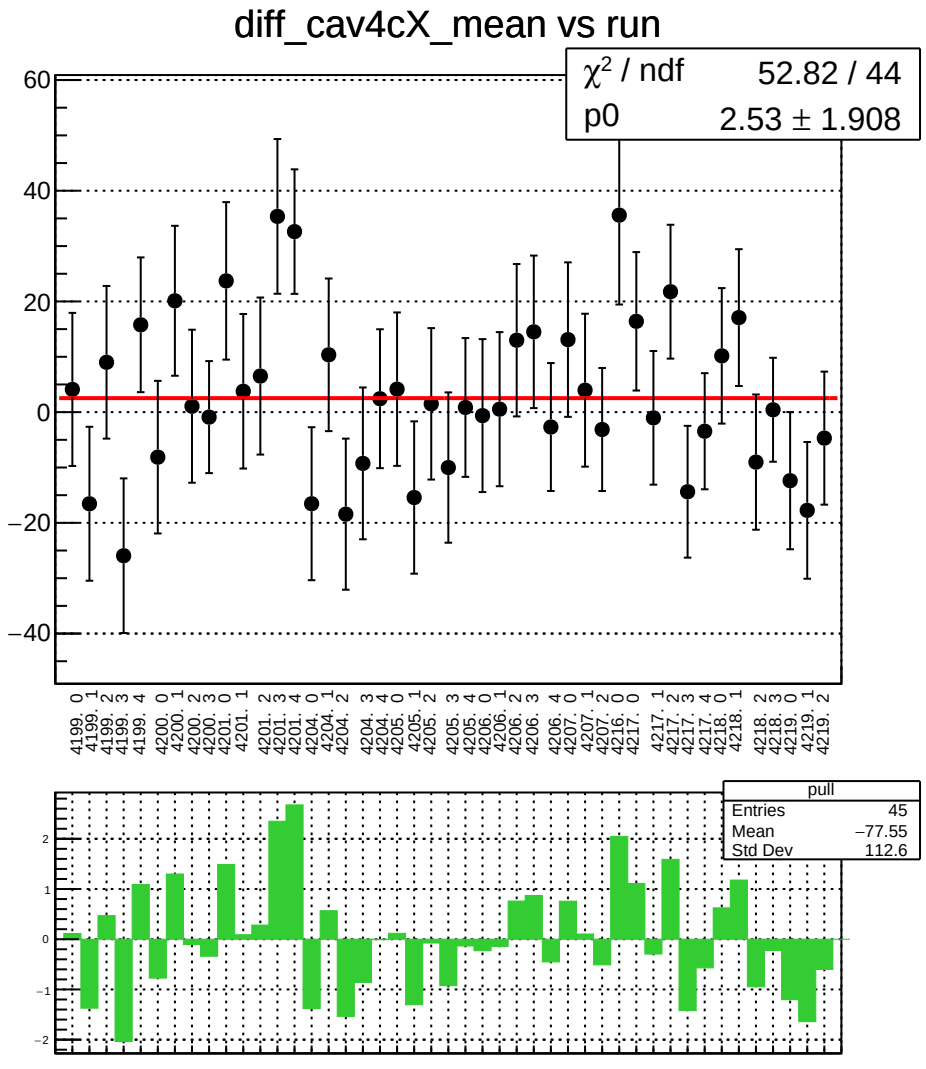

pull1D
Entries 45
Mean −0.001395
Std Dev 0.9635
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

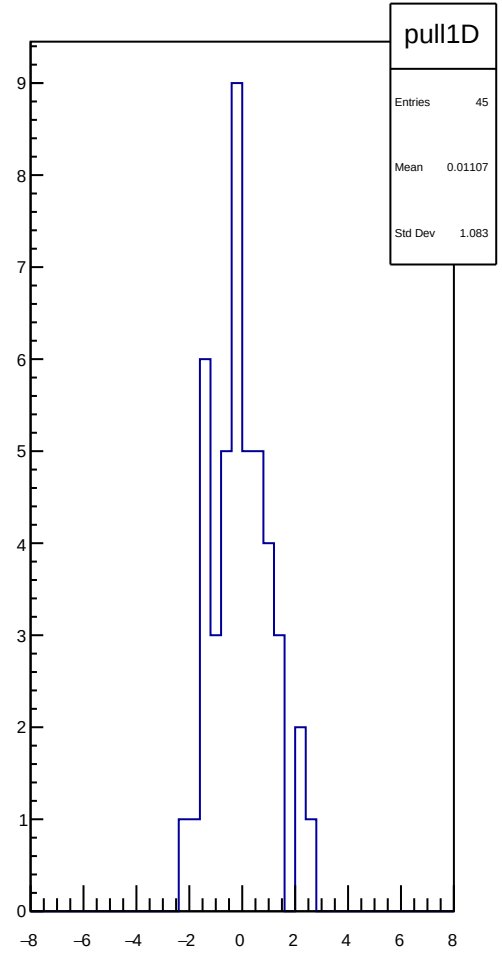

diff_cav4bX_rms vs run
×10^3
χ² / ndf 7.28e+05 / 44
p0 2043 ± 5.264
140
120
100
80
60
40
20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

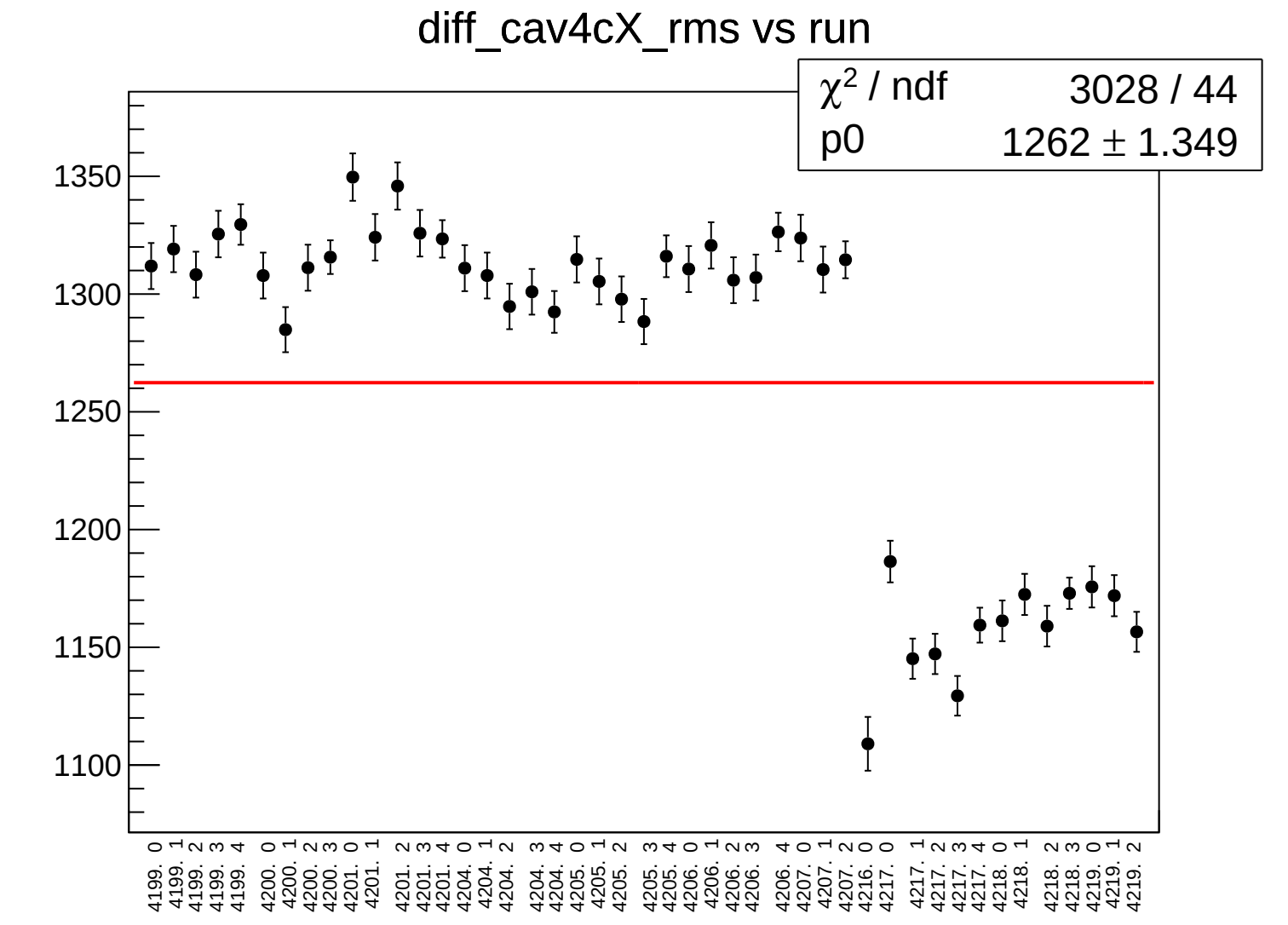

diff_cav4bY_mean vs run
χ² / ndf 54.4 / 44
p0 1.889 ± 3.081
500
0
−500
−1000
−1500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 14.37
Std Dev 4.226
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

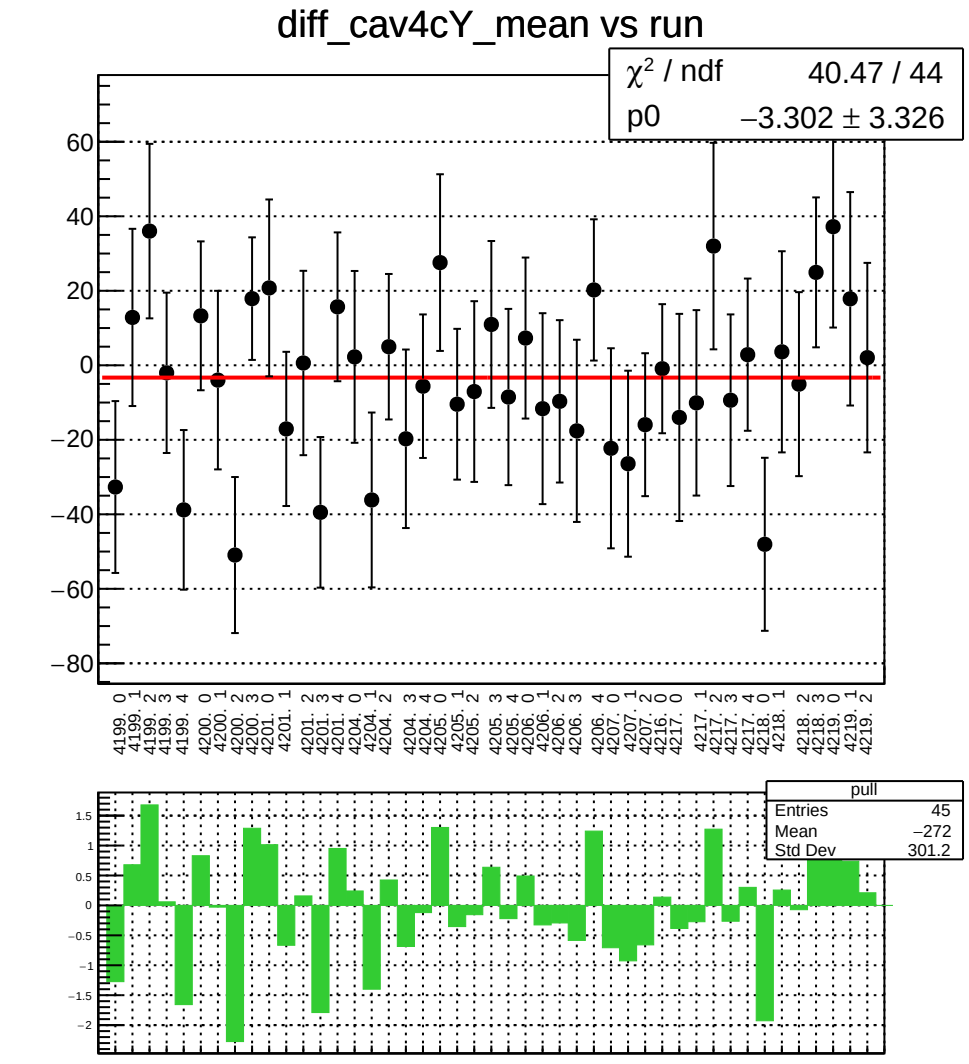

pull1D
Entries 45
Mean −0.1233
Std Dev 1.093
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

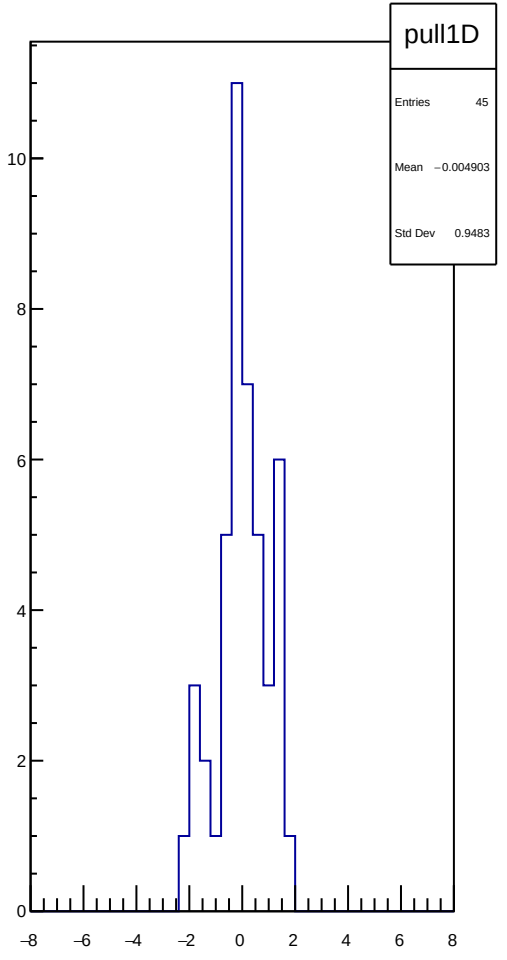

diff_cav4bY_rms vs run
χ² / ndf 4.991e+05 / 44
p0 1342 ± 2.178
50000
40000
30000
20000
10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

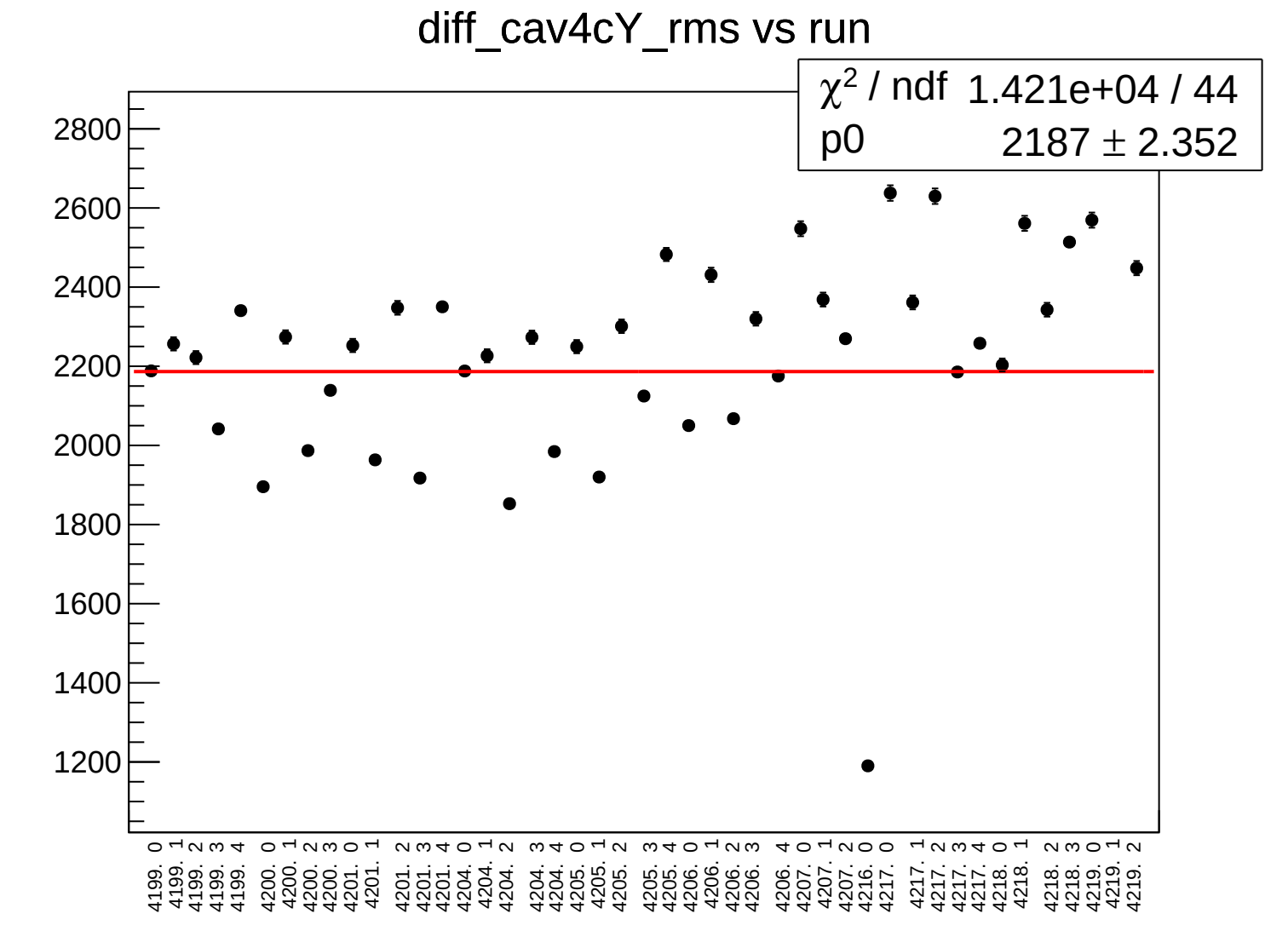

diff_cav4cX_mean vs run
χ² / ndf 52.82 / 44
p0 2.53 ± 1.908
60
40
20
0
−20
−40
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −77.55
Std Dev 112.6
2
1
0
−1
−2

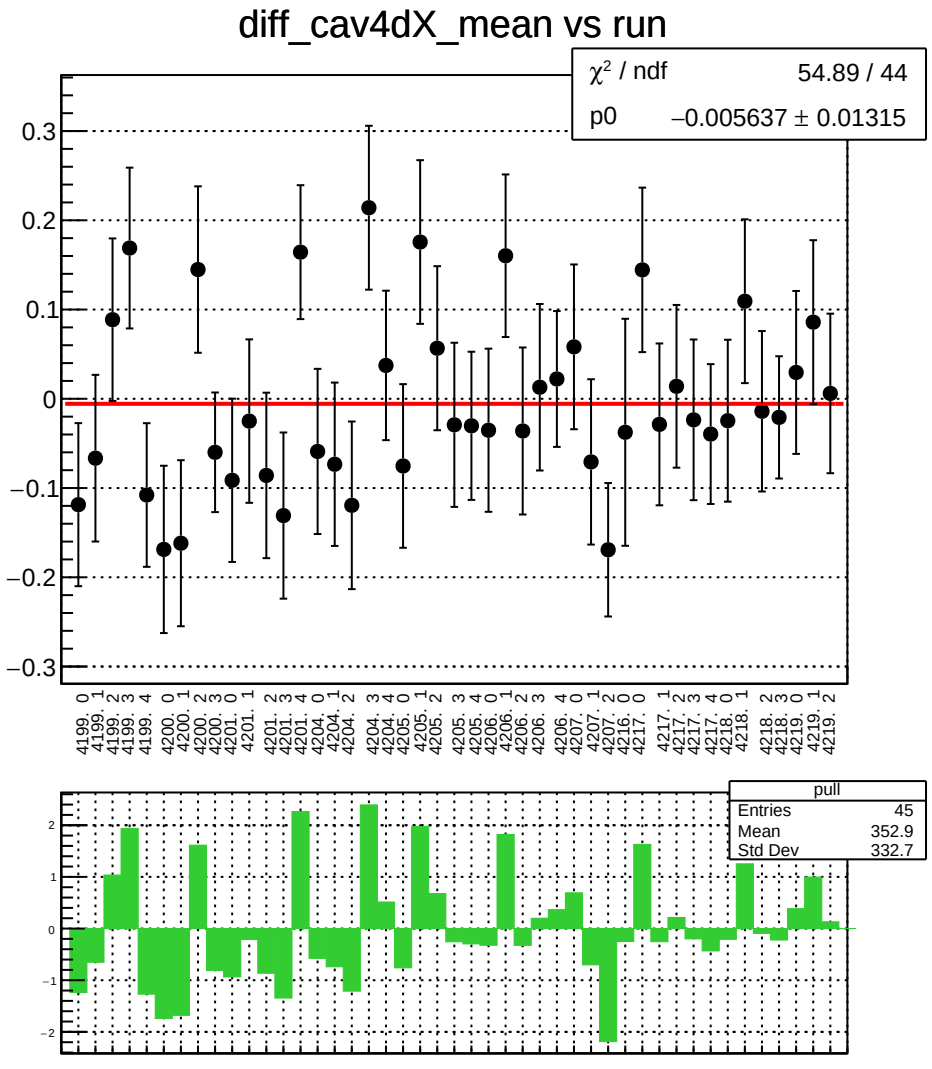

pull1D
Entries 45
Mean 0.01107
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

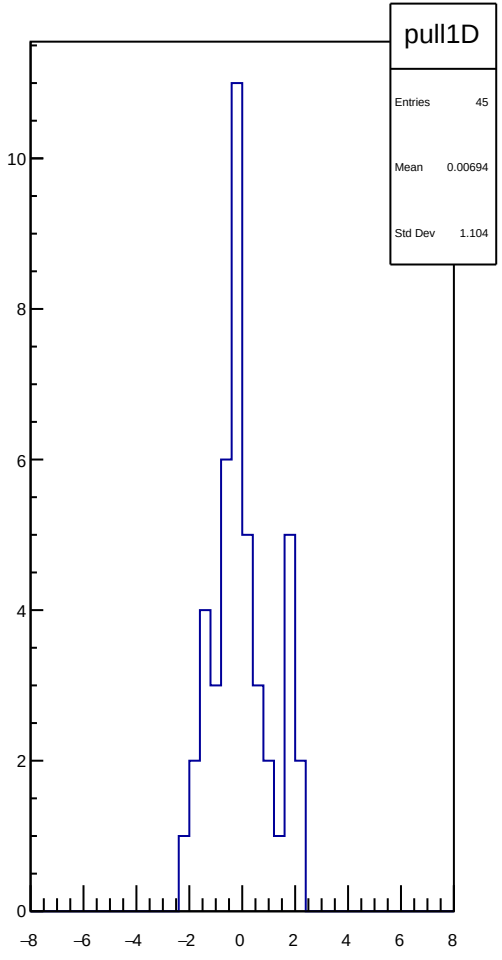

diff_cav4cX_rms vs run
χ² / ndf 3028 / 44
p0 1262 ± 1.349
1350
1300
1250
1200
1150
1100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

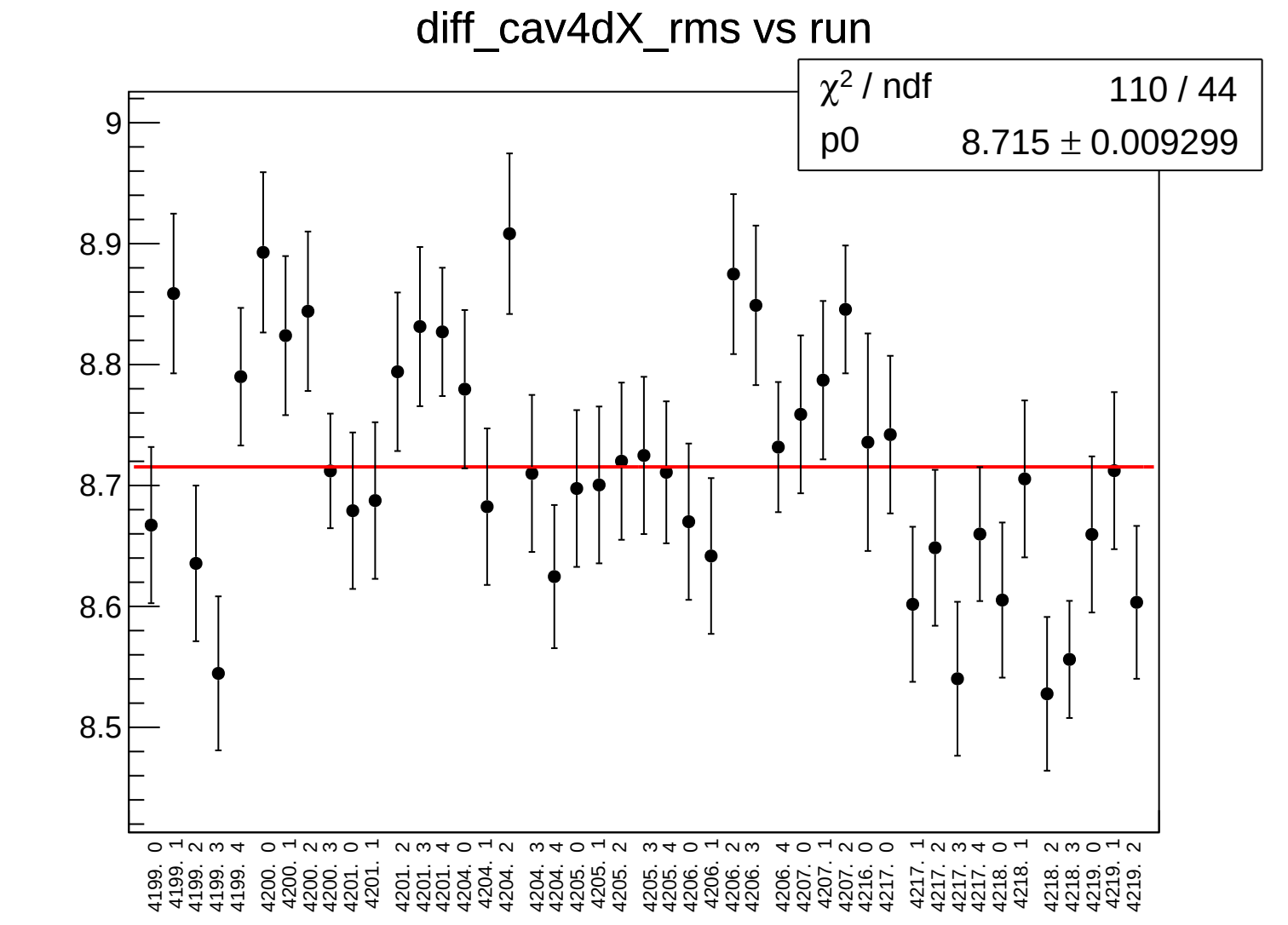

diff_cav4cY_mean vs run
χ² / ndf 40.47 / 44
p0 −3.302 ± 3.326
pull
Entries 45
Mean −272
Std Dev 301.2

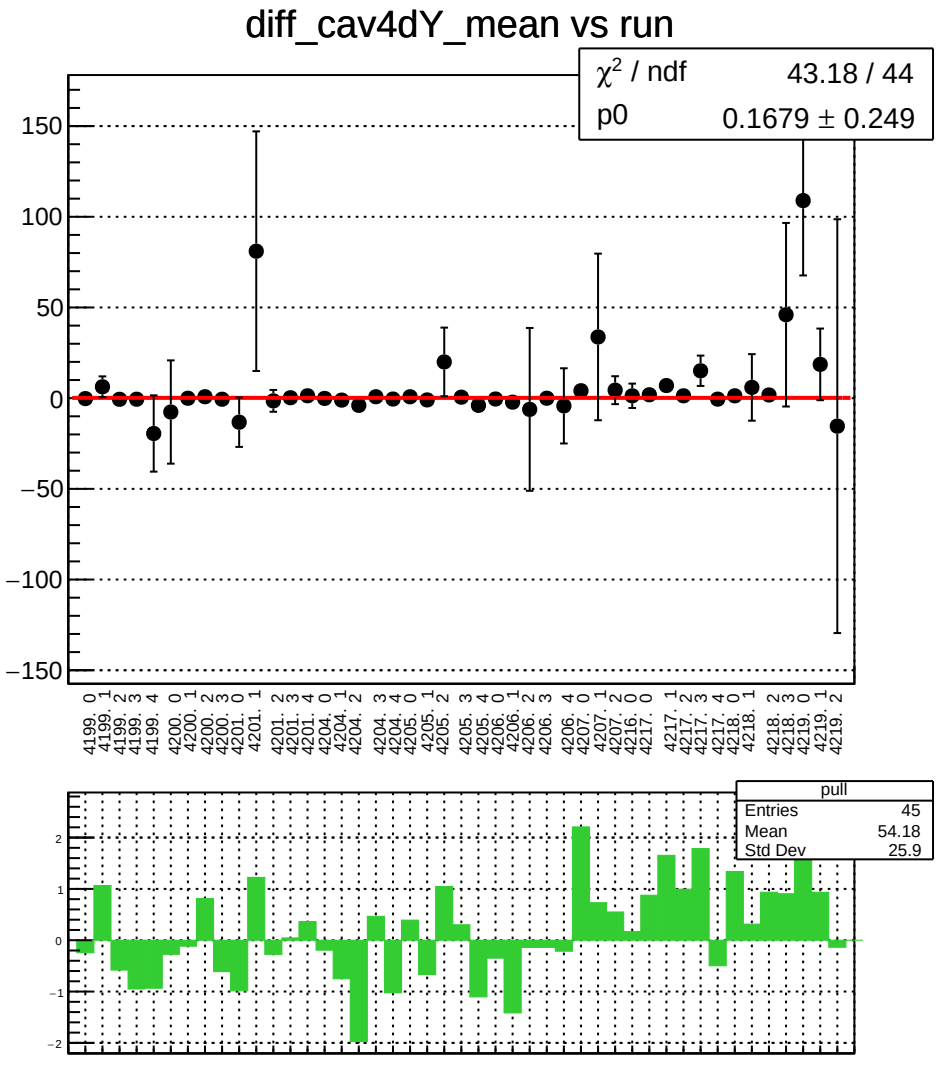

pull1D
Entries 45
Mean −0.004903
Std Dev 0.9483

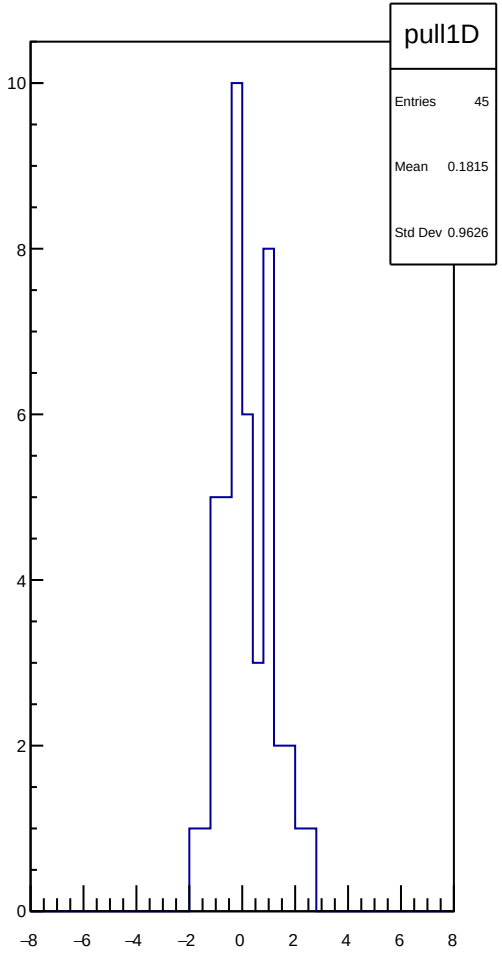

diff_cav4cY_rms vs run
χ² / ndf 1.421e+04 / 44
p0 2187 ± 2.352
2800
2600
2400
2200
2000
1800
1600
1400
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

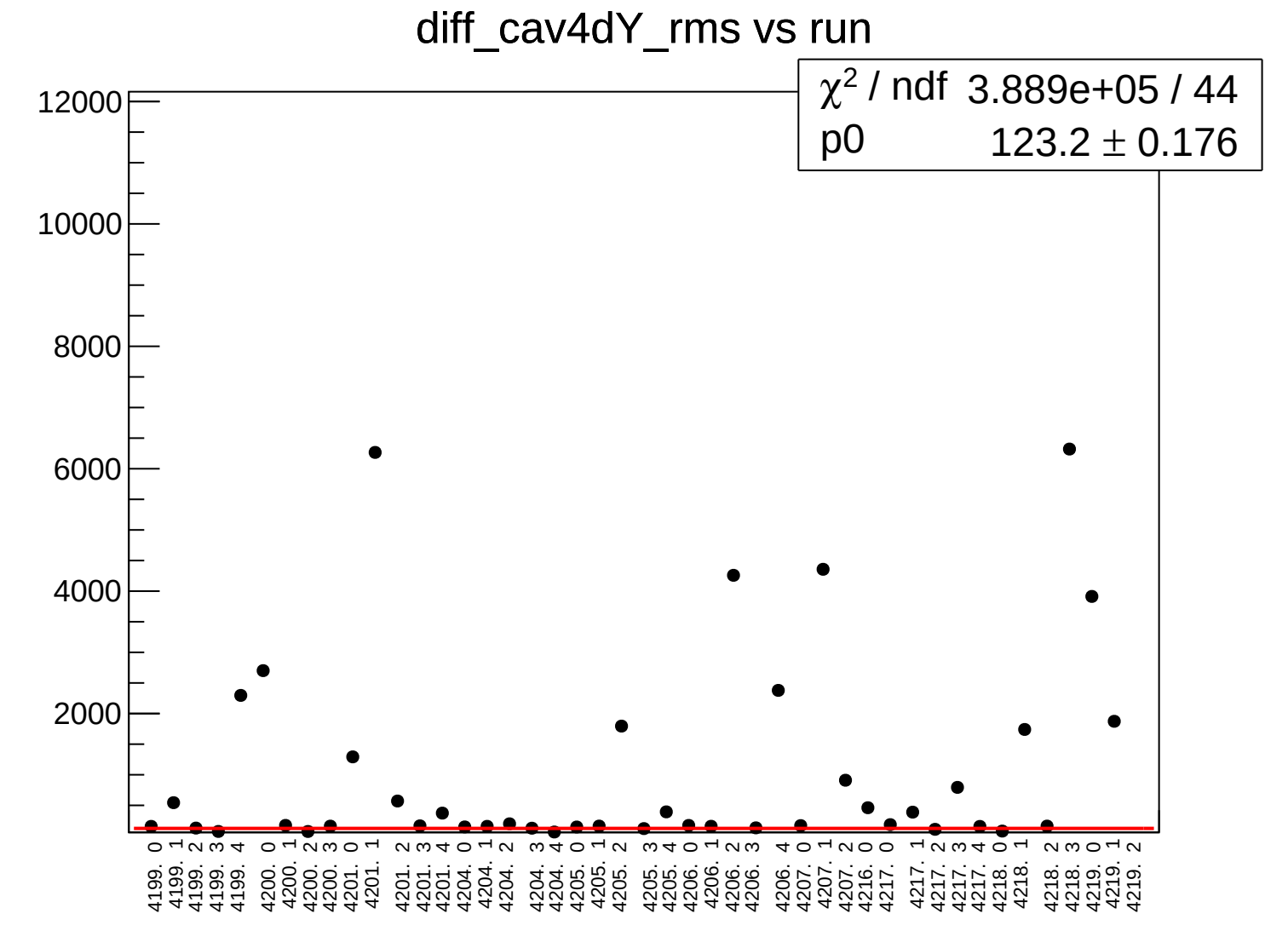

diff_cav4dX_mean vs run
χ² / ndf 54.89 / 44
p0 −0.005637 ± 0.01315
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 352.9
Std Dev 332.7
2
1
0
−1
−2

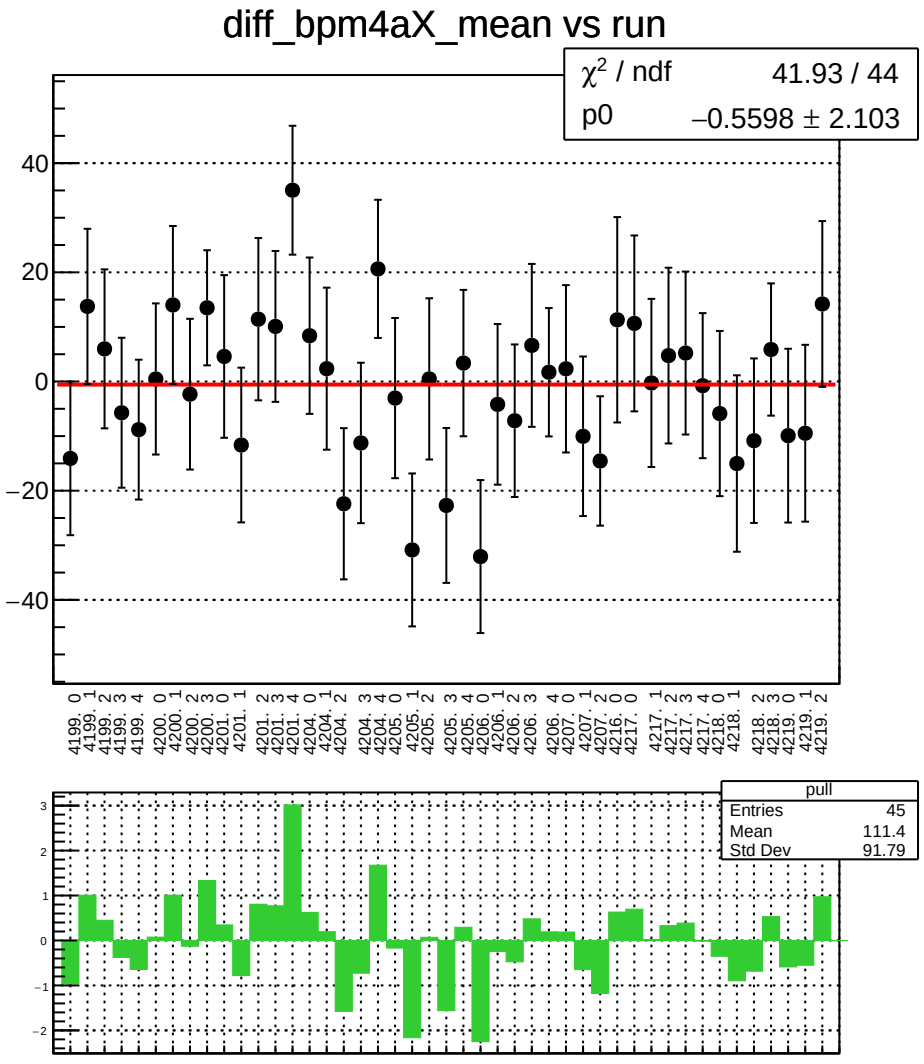

pull1D
Entries 45
Mean 0.00694
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

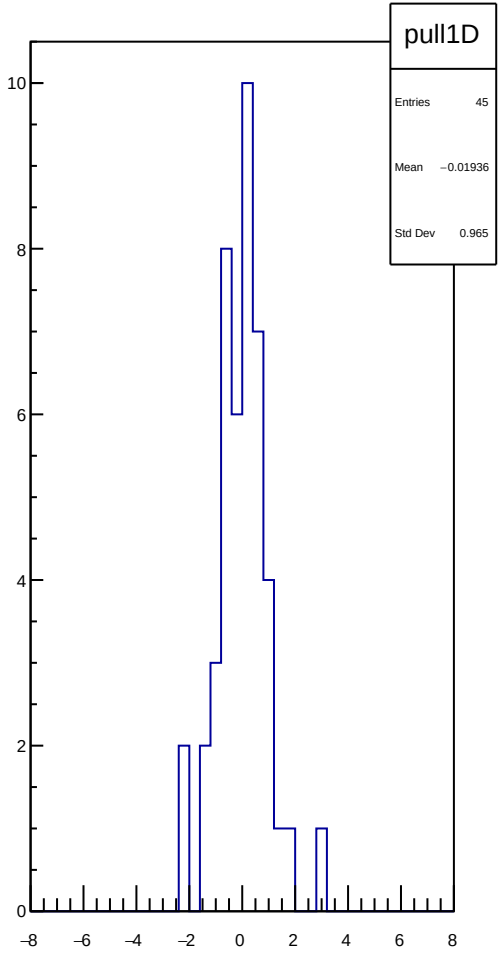

diff_cav4dX_rms vs run
χ² / ndf 110 / 44
p0 8.715 ± 0.009299
9
8.9
8.8
8.7
8.6
8.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

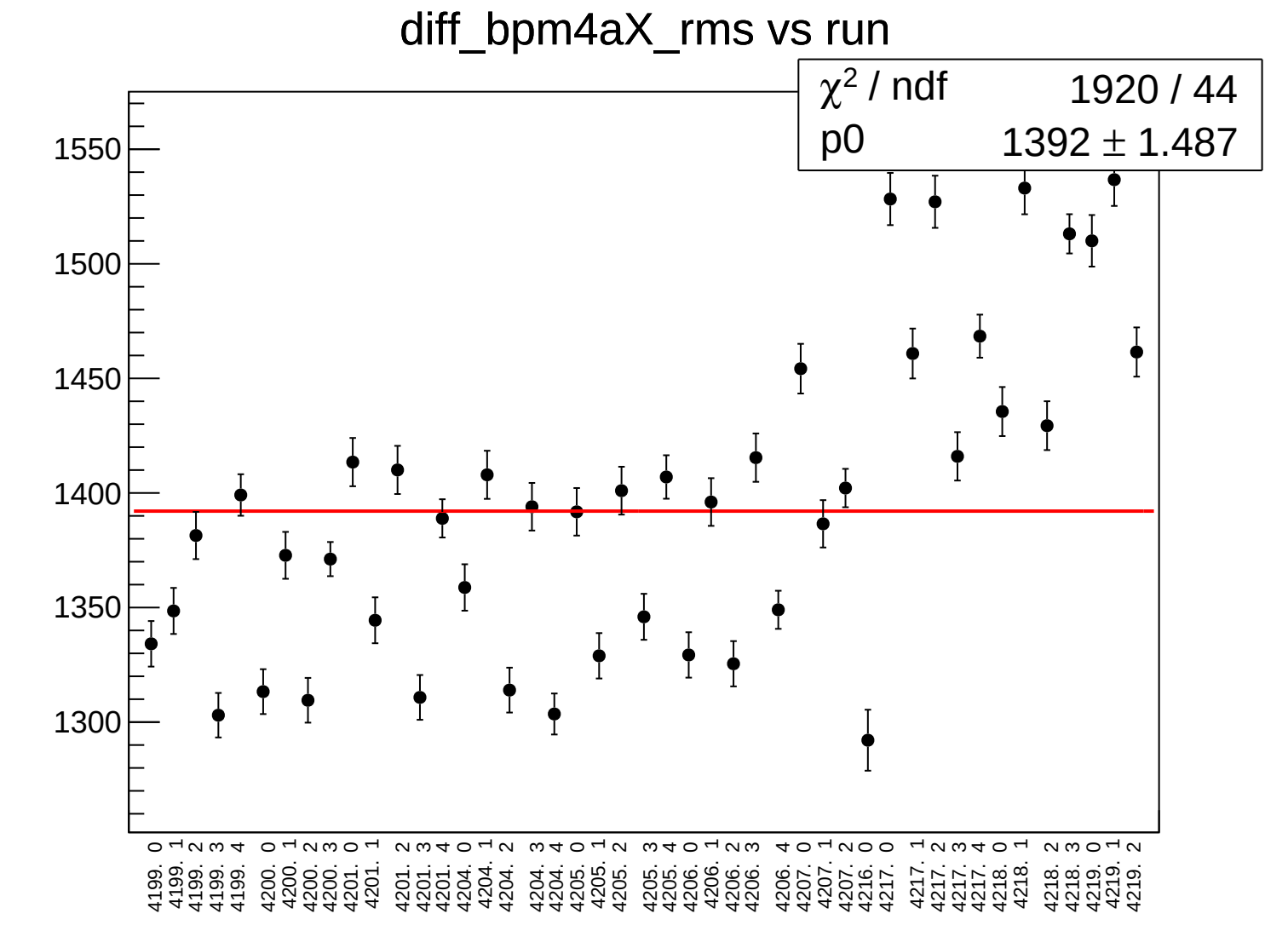

diff_cav4dY_mean vs run
χ² / ndf 43.18 / 44
p0 0.1679 ± 0.249
150
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 54.18
Std Dev 25.9
2
1
0
−1
−2

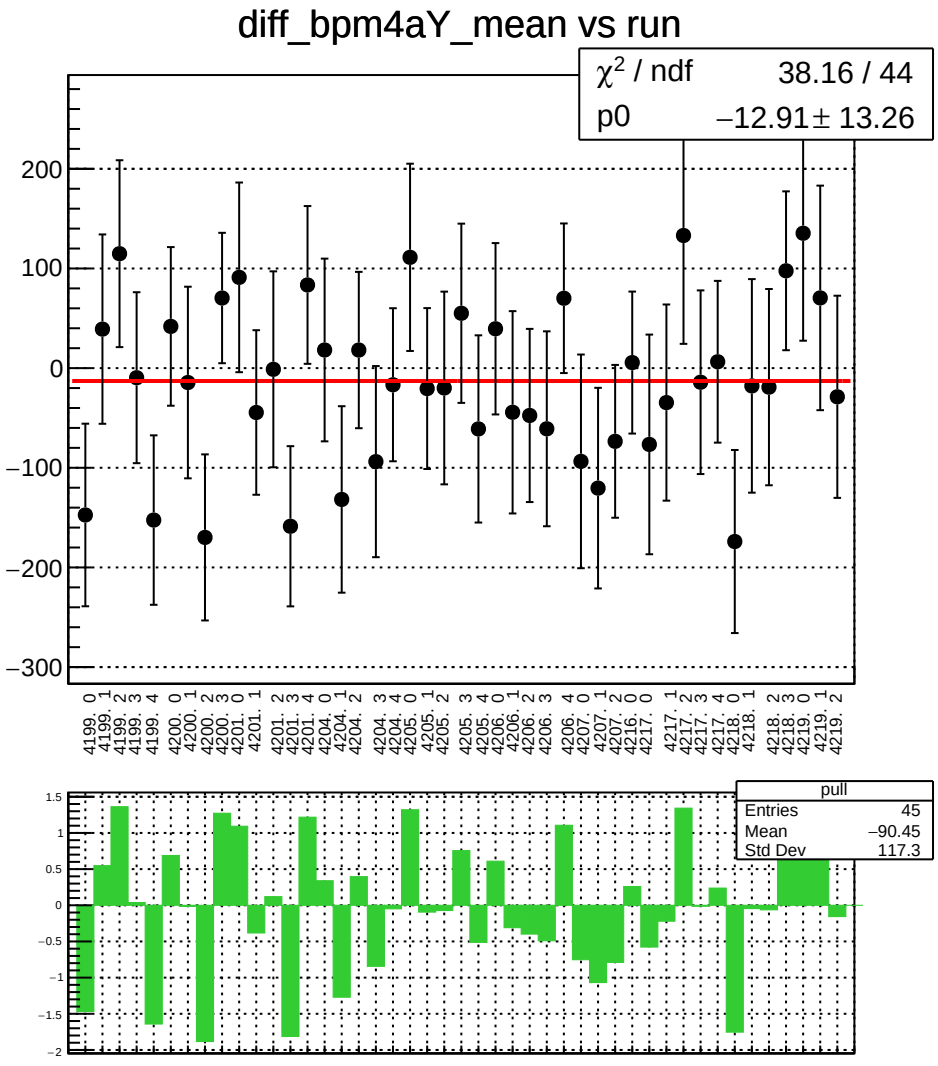

pull1D
Entries 45
Mean 0.1815
Std Dev 0.9626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

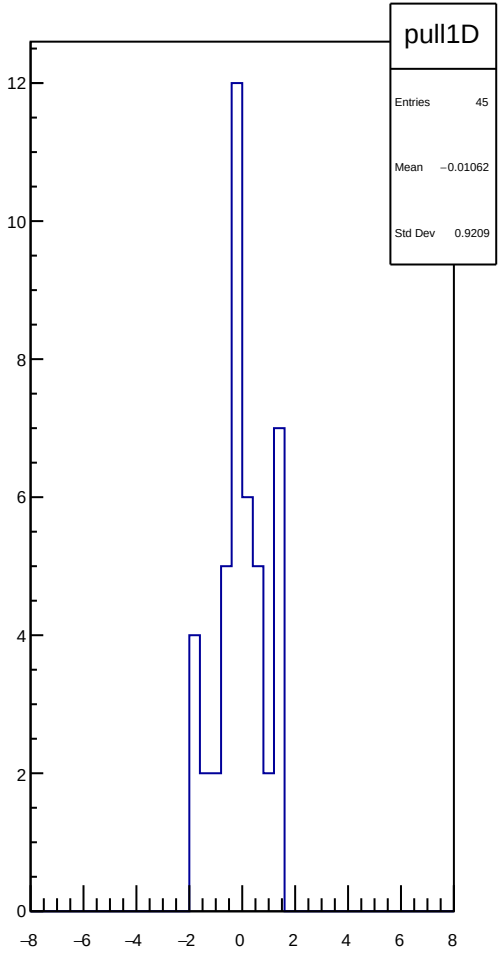

diff_cav4dY_rms vs run
χ² / ndf 3.889e+05 / 44
p0 123.2 ± 0.176
12000
10000
8000
6000
4000
2000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

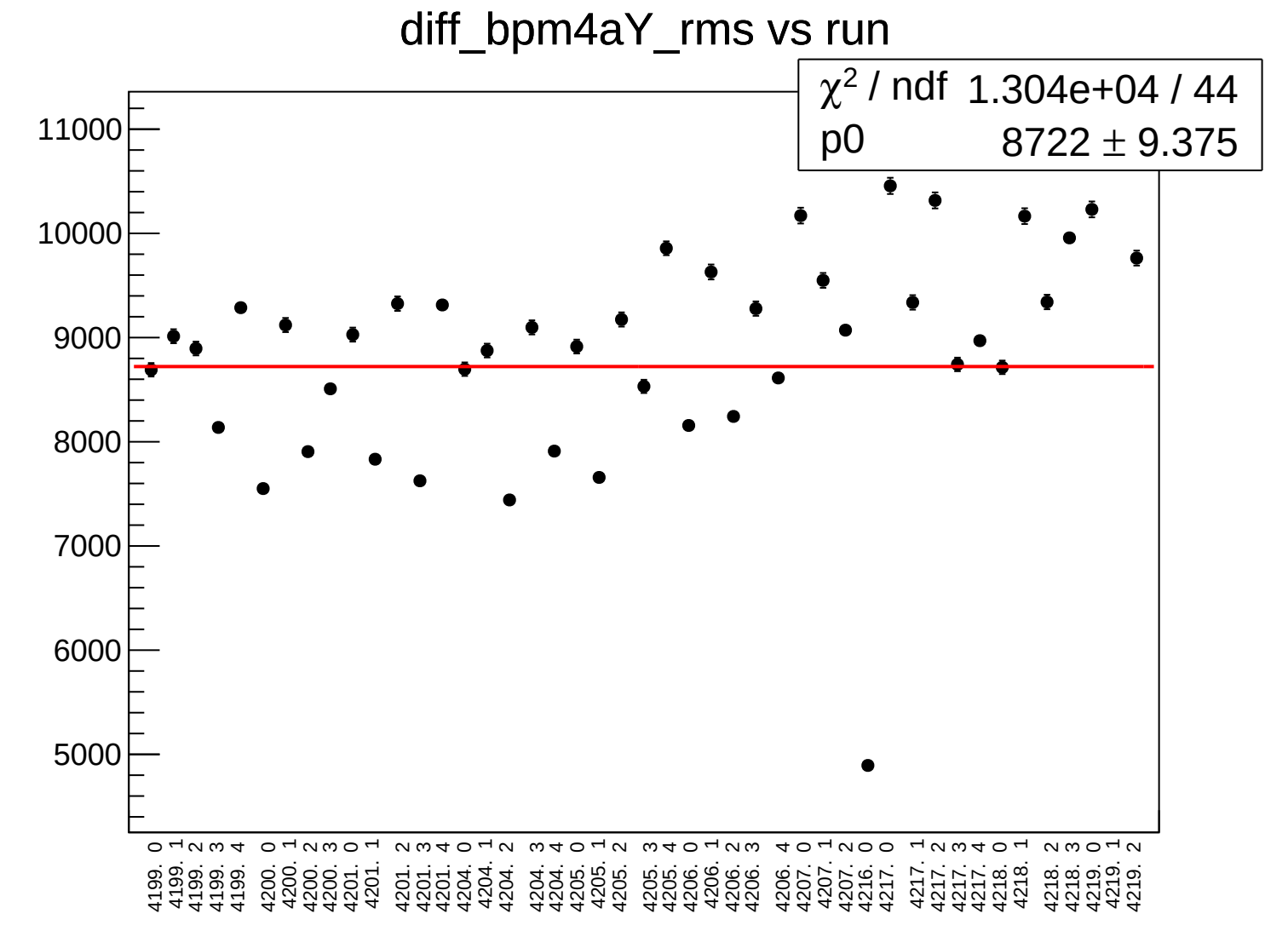

diff_bpm4aX_mean vs run
χ² / ndf 41.93 / 44
p0 −0.5598 ± 2.103
40
20
0
−20
−40
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 111.4
Std Dev 91.79
3
2
1
0
−1
−2

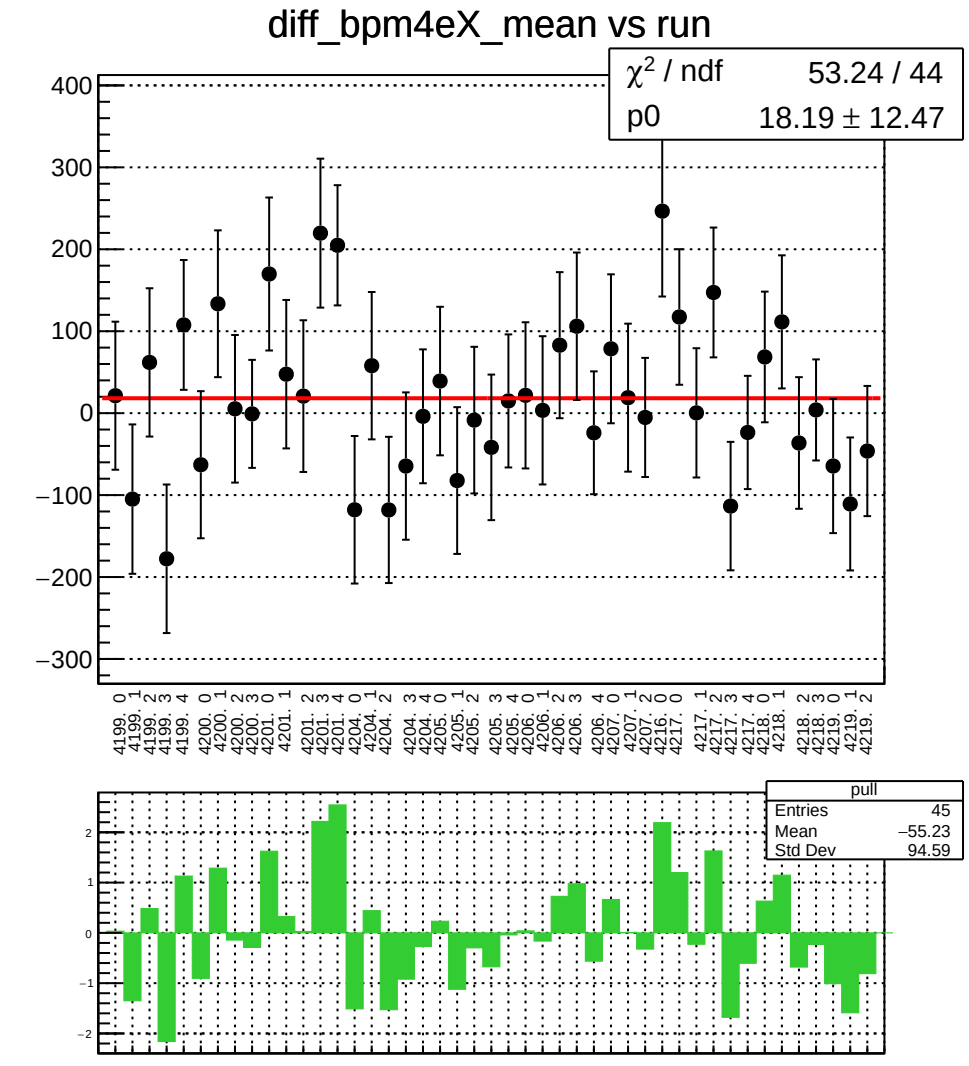

pull1D
Entries 45
Mean −0.01936
Std Dev 0.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

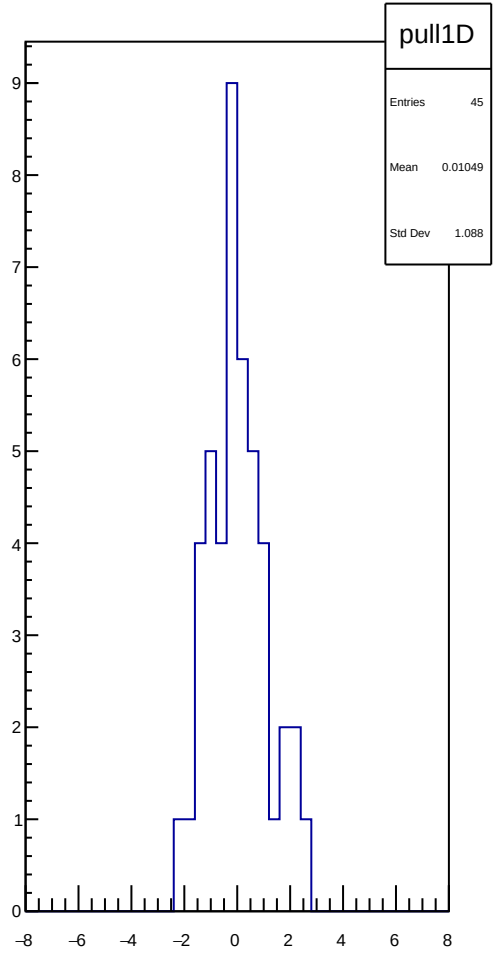

diff_bpm4aX_rms vs run
χ² / ndf 1920 / 44
p0 1392 ± 1.487
1550
1500
1450
1400
1350
1300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

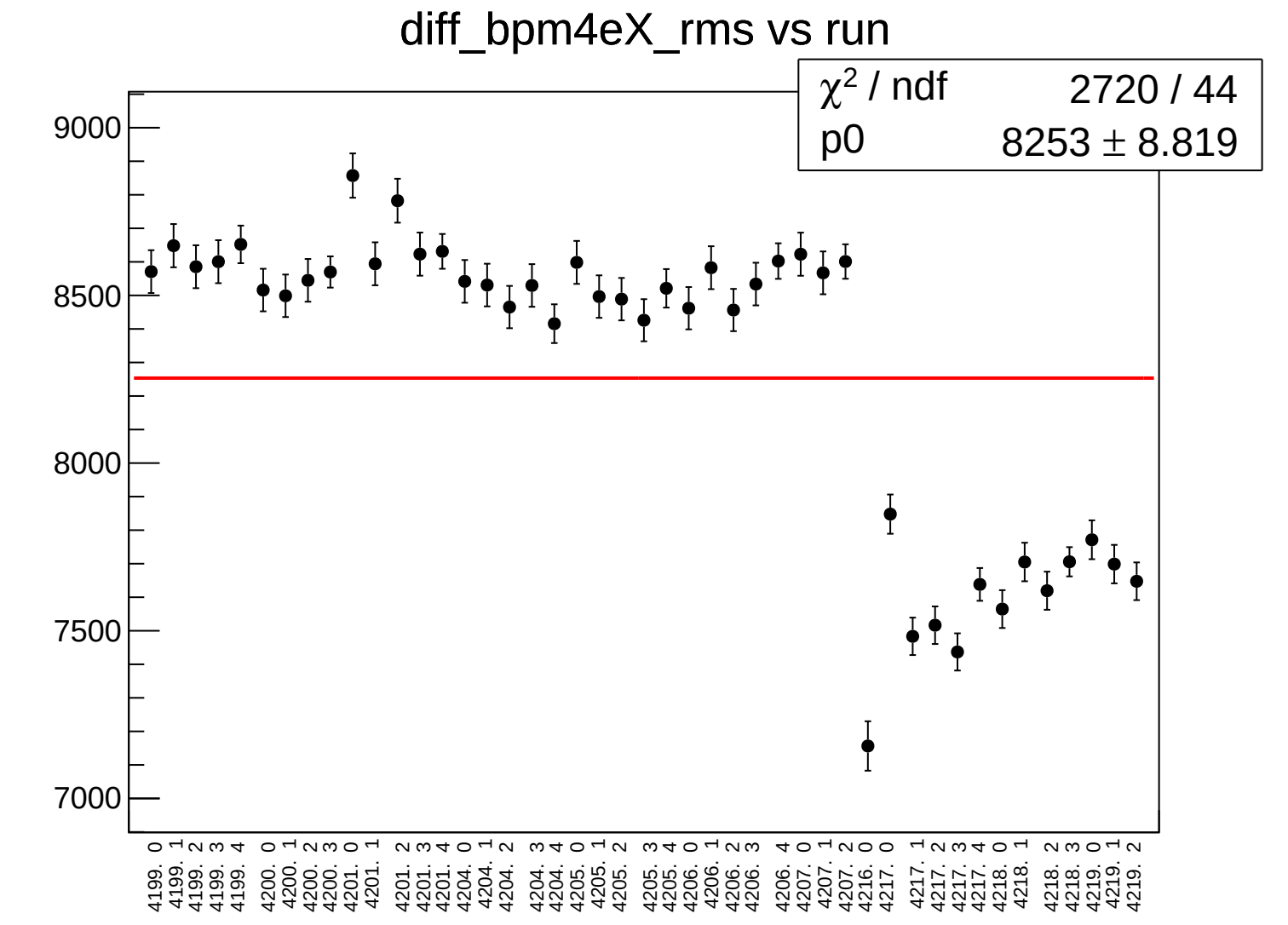

diff_bpm4aY_mean vs run
χ² / ndf 38.16 / 44
p0 −12.91± 13.26
200
100
0
−100
−200
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −90.45
Std Dev 117.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

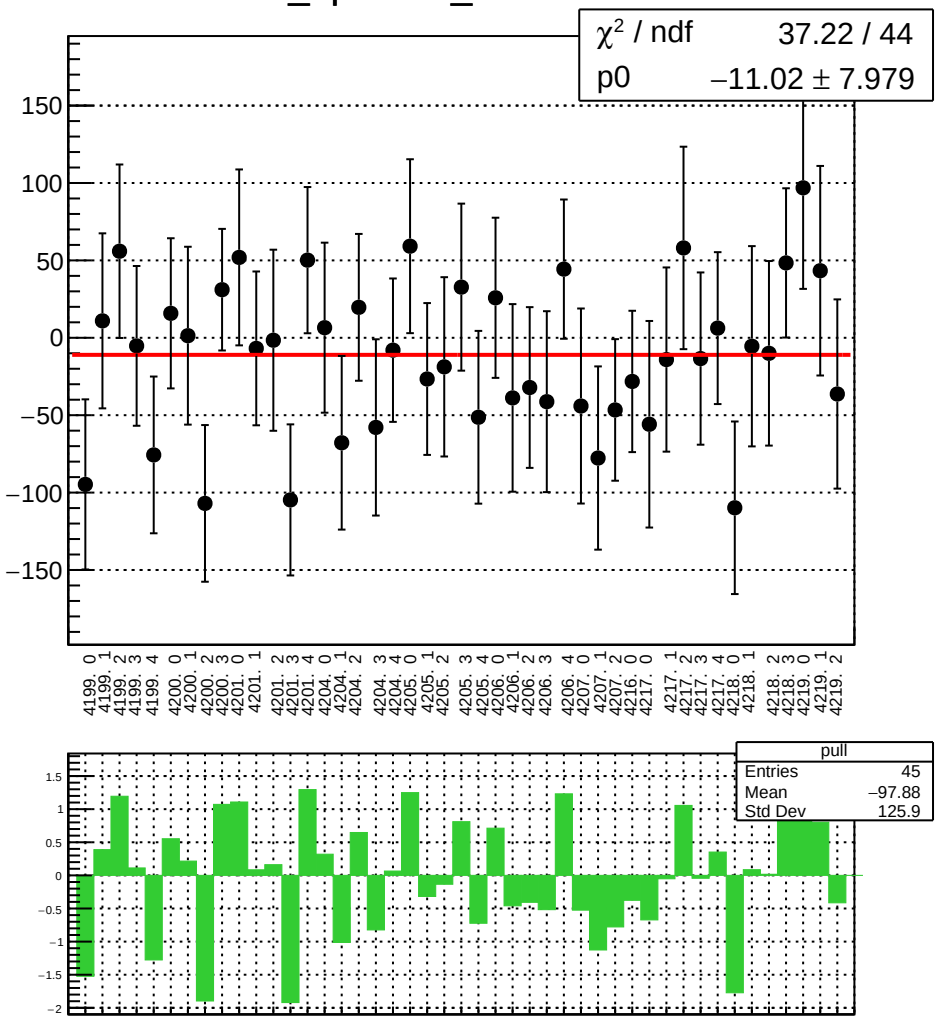

pull1D
Entries 45
Mean −0.01062
Std Dev 0.9209
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

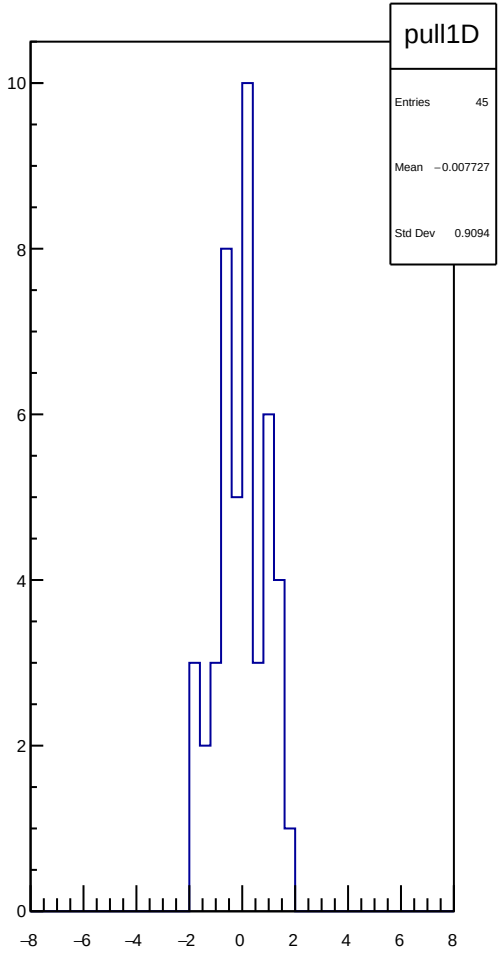

diff_bpm4aY_rms vs run
χ² / ndf 1.304e+04 / 44
p0 8722 ± 9.375
11000
10000
9000
8000
7000
6000
5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

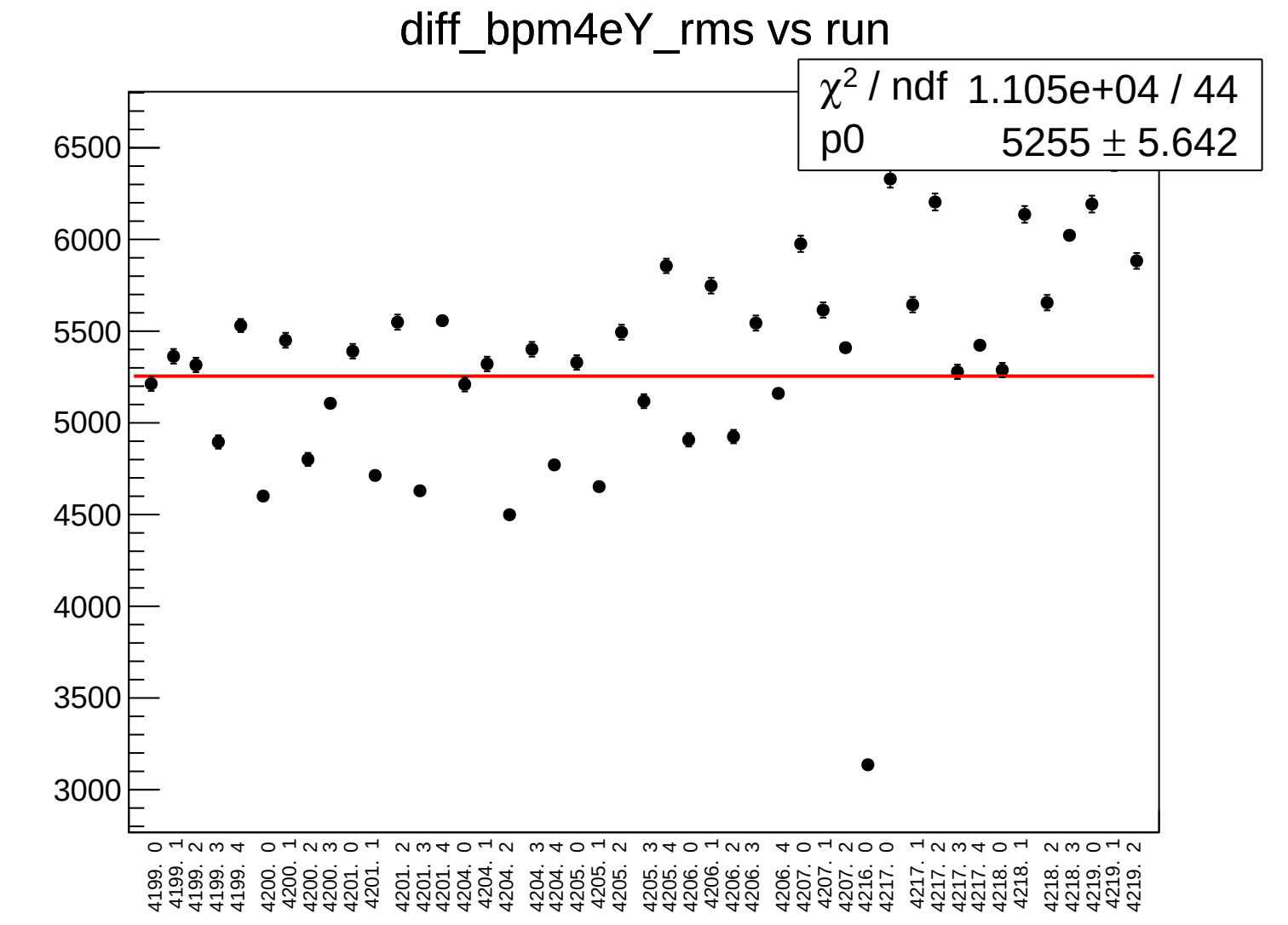

diff_bpm4eX_mean vs run
χ² / ndf 53.24 / 44
p0 18.19 ± 12.47
400
300
200
100
0
−100
−200
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −55.23
Std Dev 94.59
2
1
0
−1
−2

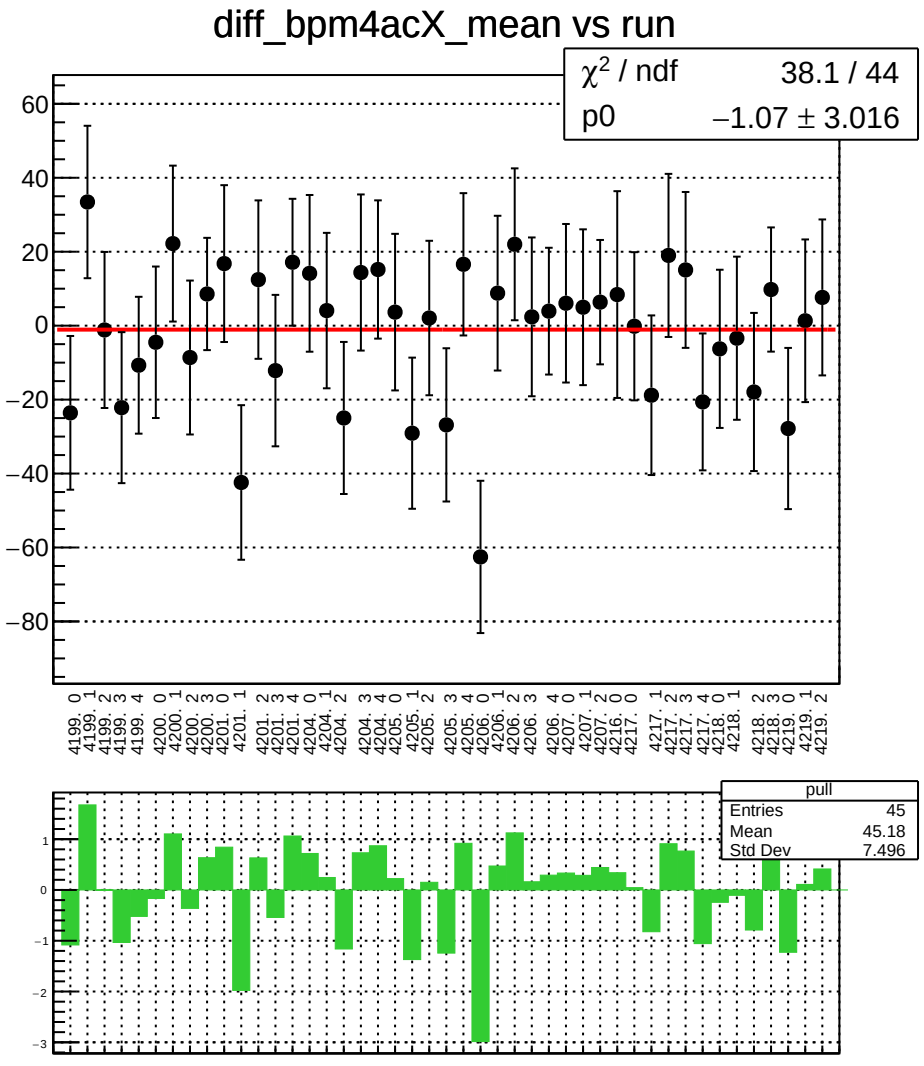

pull1D
Entries 45
Mean 0.01049
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

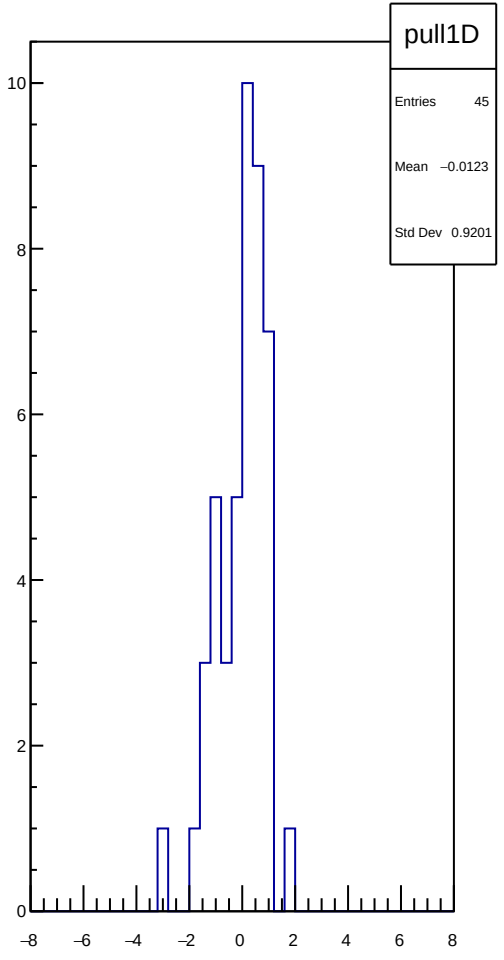

diff_bpm4eX_rms vs run
χ² / ndf 2720 / 44
p0 8253 ± 8.819
9000
8500
8000
7500
7000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

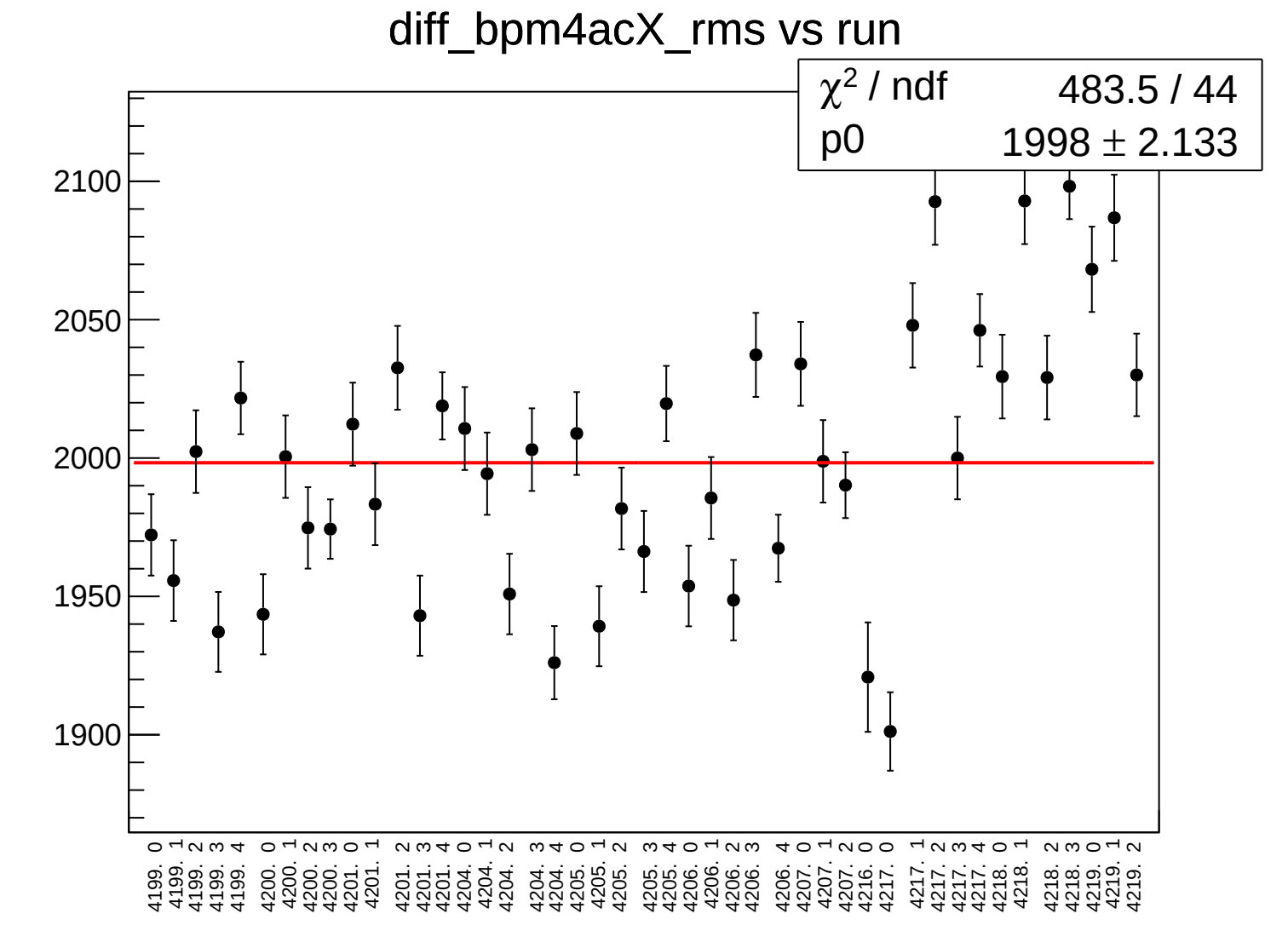

diff_bpm4eY_mean vs run
χ² / ndf 37.22 / 44
p0 −11.02 ± 7.979
150
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −97.88
Std Dev 125.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

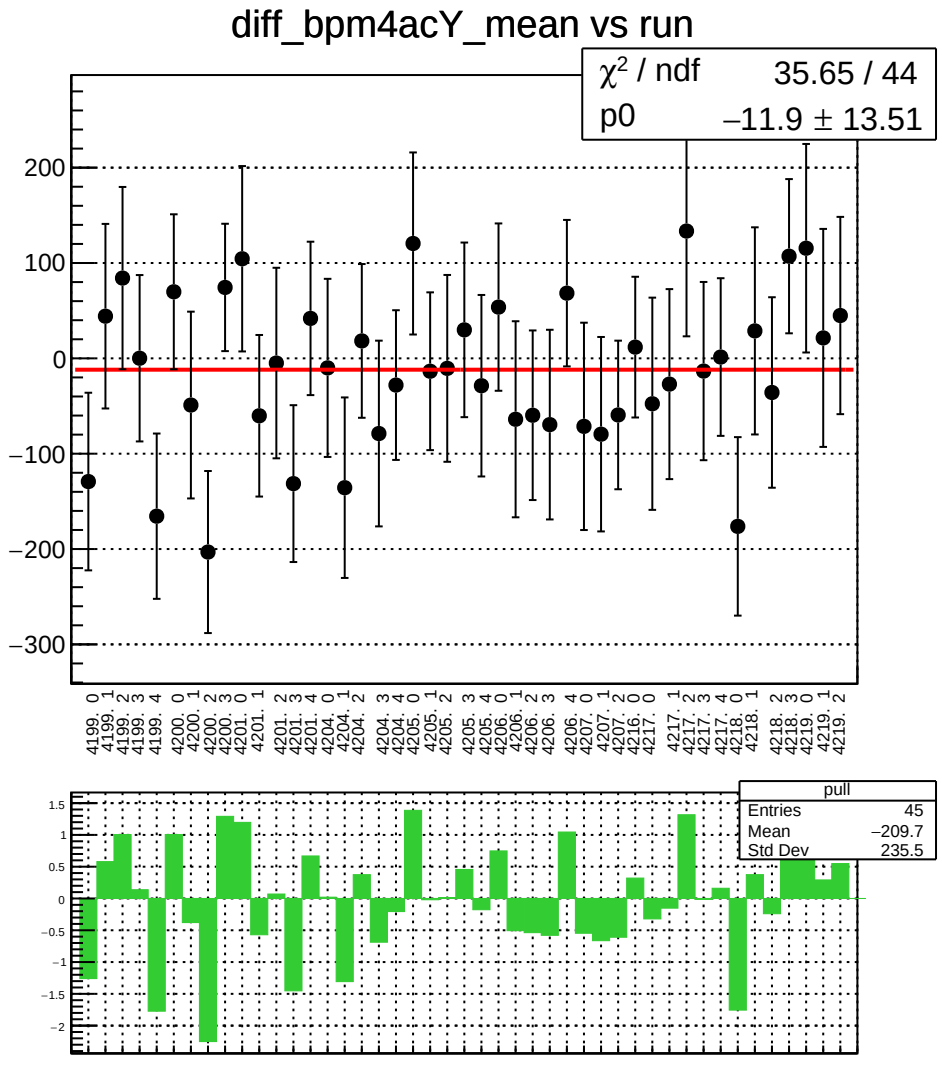

pull1D
Entries 45
Mean −0.007727
Std Dev 0.9094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

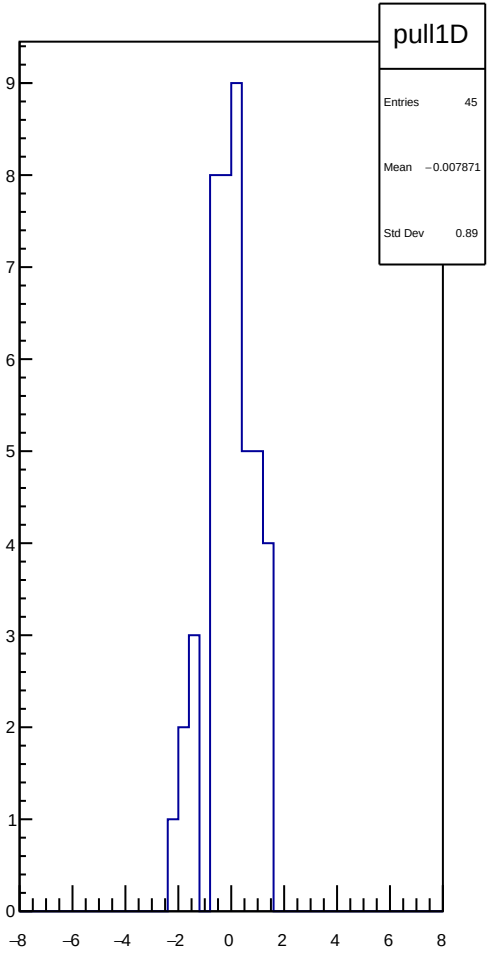

diff_bpm4eY_rms vs run
χ² / ndf 1.105e+04 / 44
p0 5255 ± 5.642
6500
6000
5500
5000
4500
4000
3500
3000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

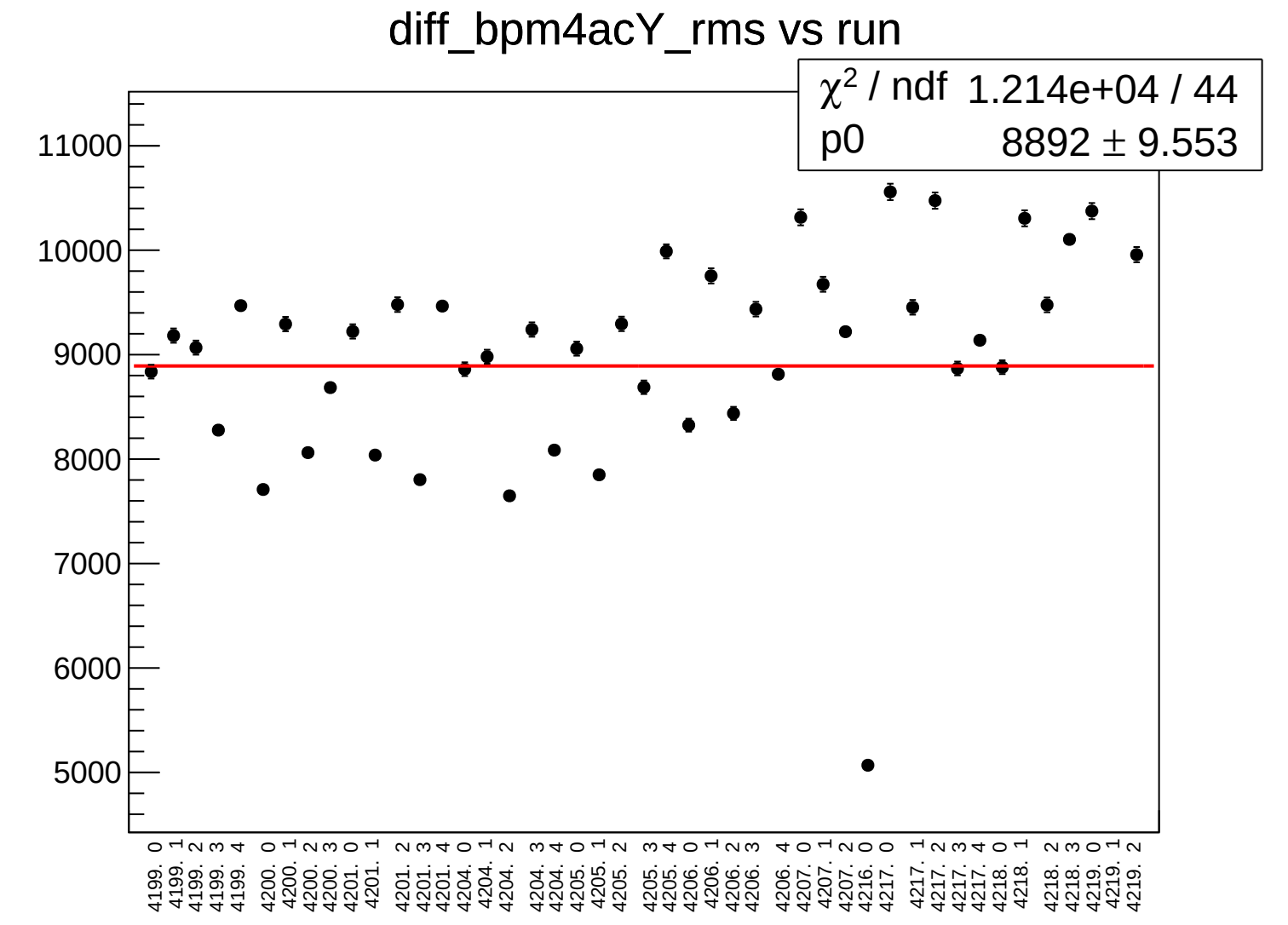

diff_bpm4acX_mean vs run
χ² / ndf 38.1 / 44
p0 −1.07 ± 3.016
pull
Entries 45
Mean 45.18
Std Dev 7.496

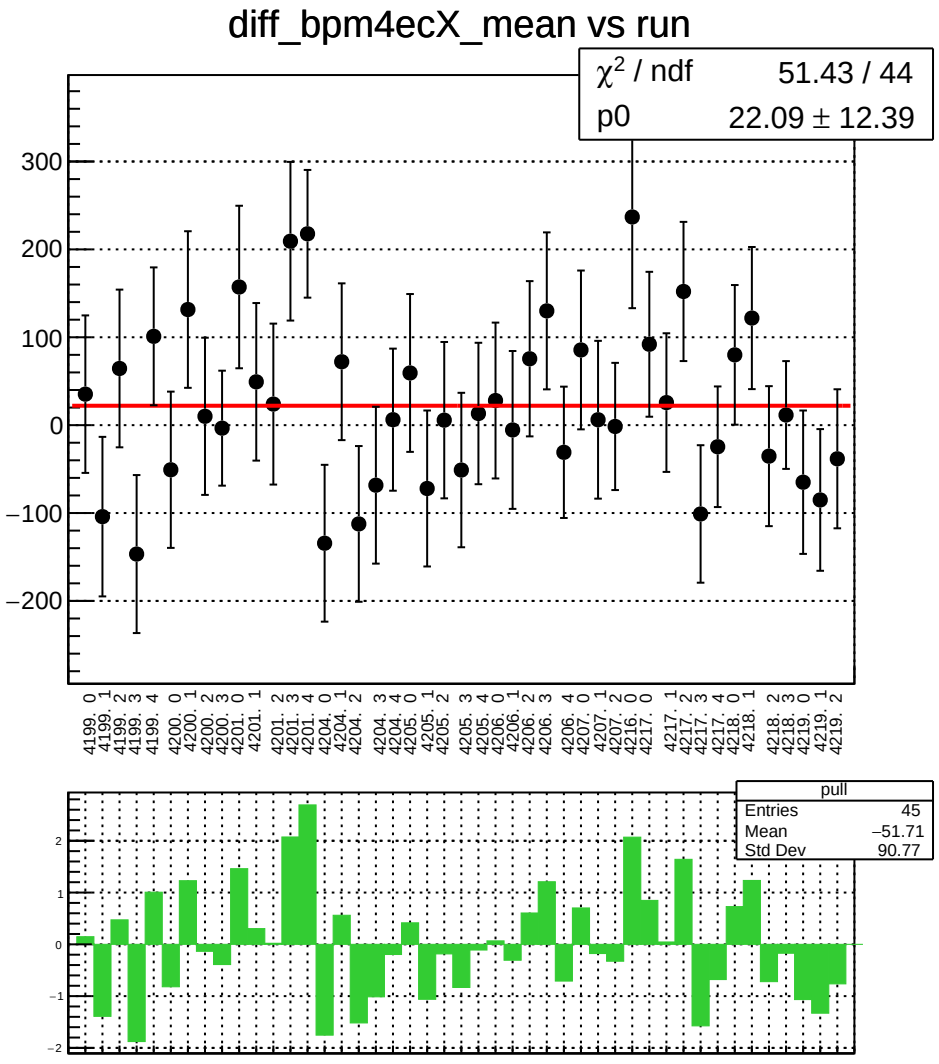

pull1D
Entries 45
Mean −0.0123
Std Dev 0.9201

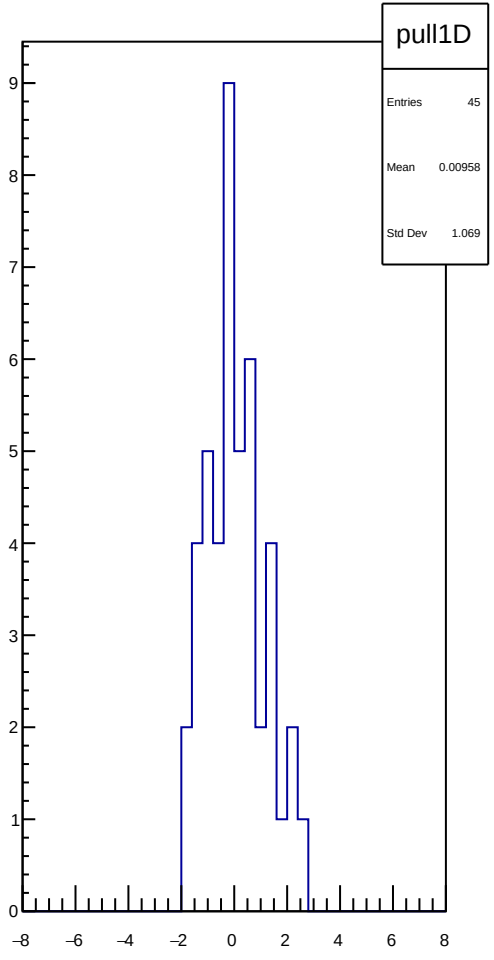

diff_bpm4acX_rms vs run
χ² / ndf 483.5 / 44
p0 1998 ± 2.133
2100
2050
2000
1950
1900
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

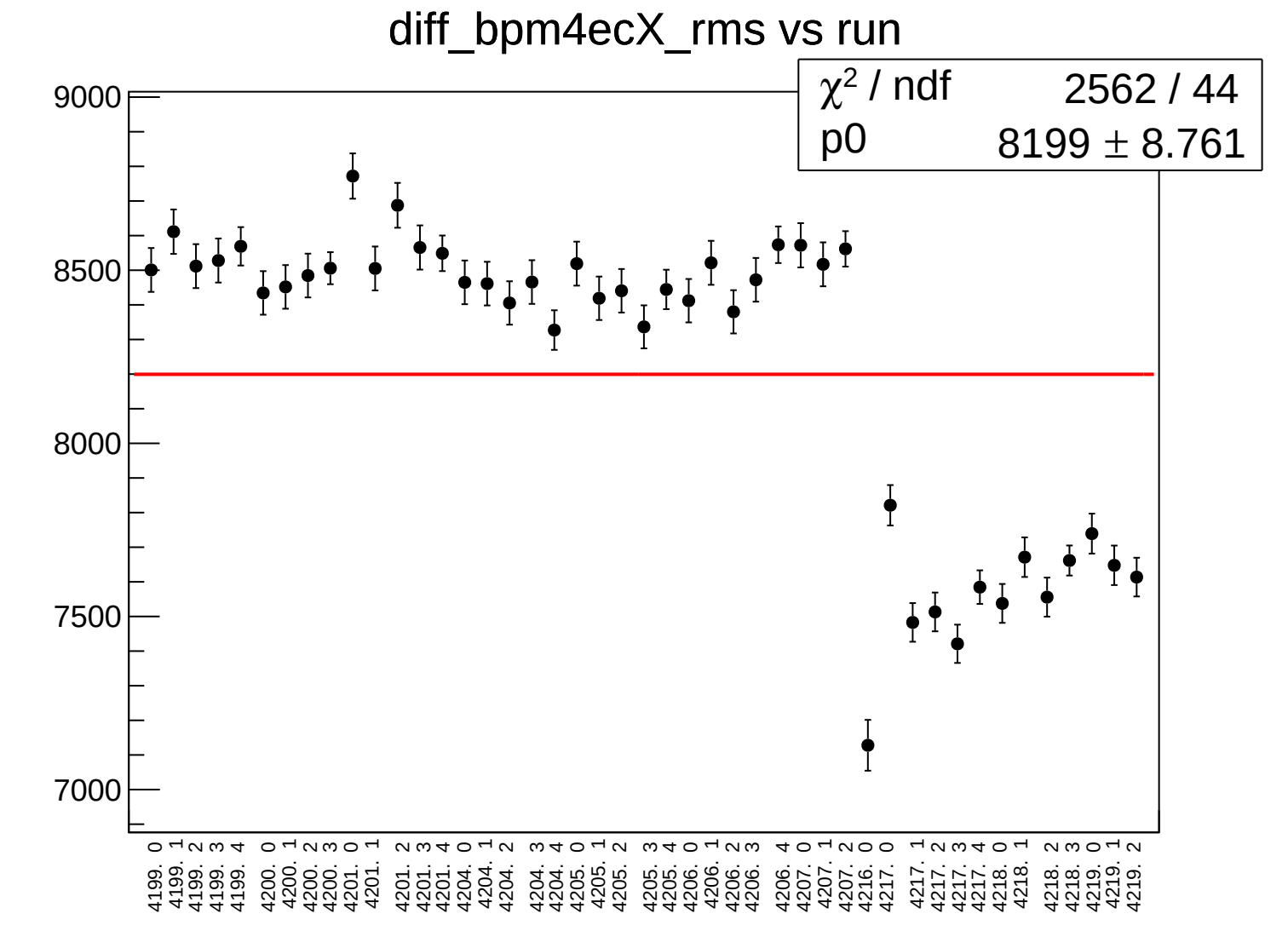

diff_bpm4acY_mean vs run
χ² / ndf 35.65 / 44
p0 −11.9 ± 13.51
200
100
0
−100
−200
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −209.7
Std Dev 235.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

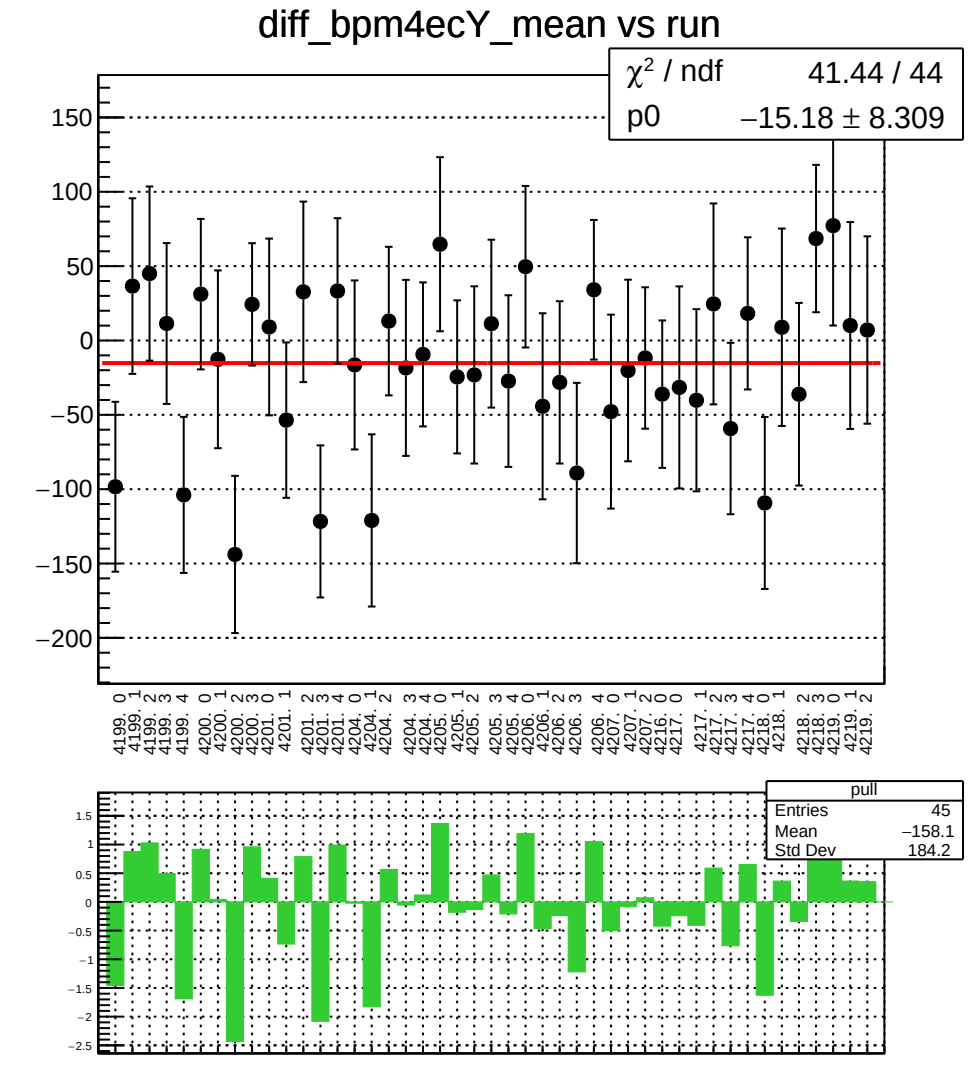

pull1D
Entries 45
Mean −0.007871
Std Dev 0.89
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

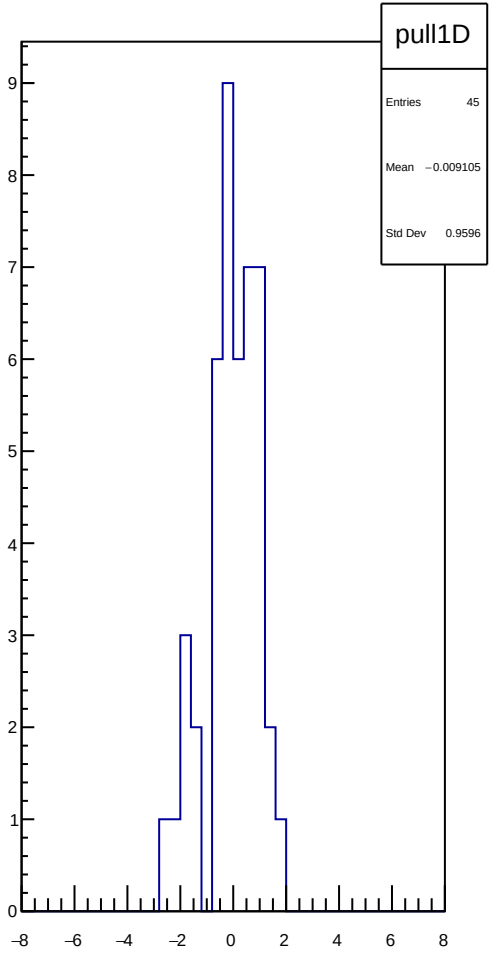

diff_bpm4acY_rms vs run
χ² / ndf 1.214e+04 / 44
p0 8892 ± 9.553
11000
10000
9000
8000
7000
6000
5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

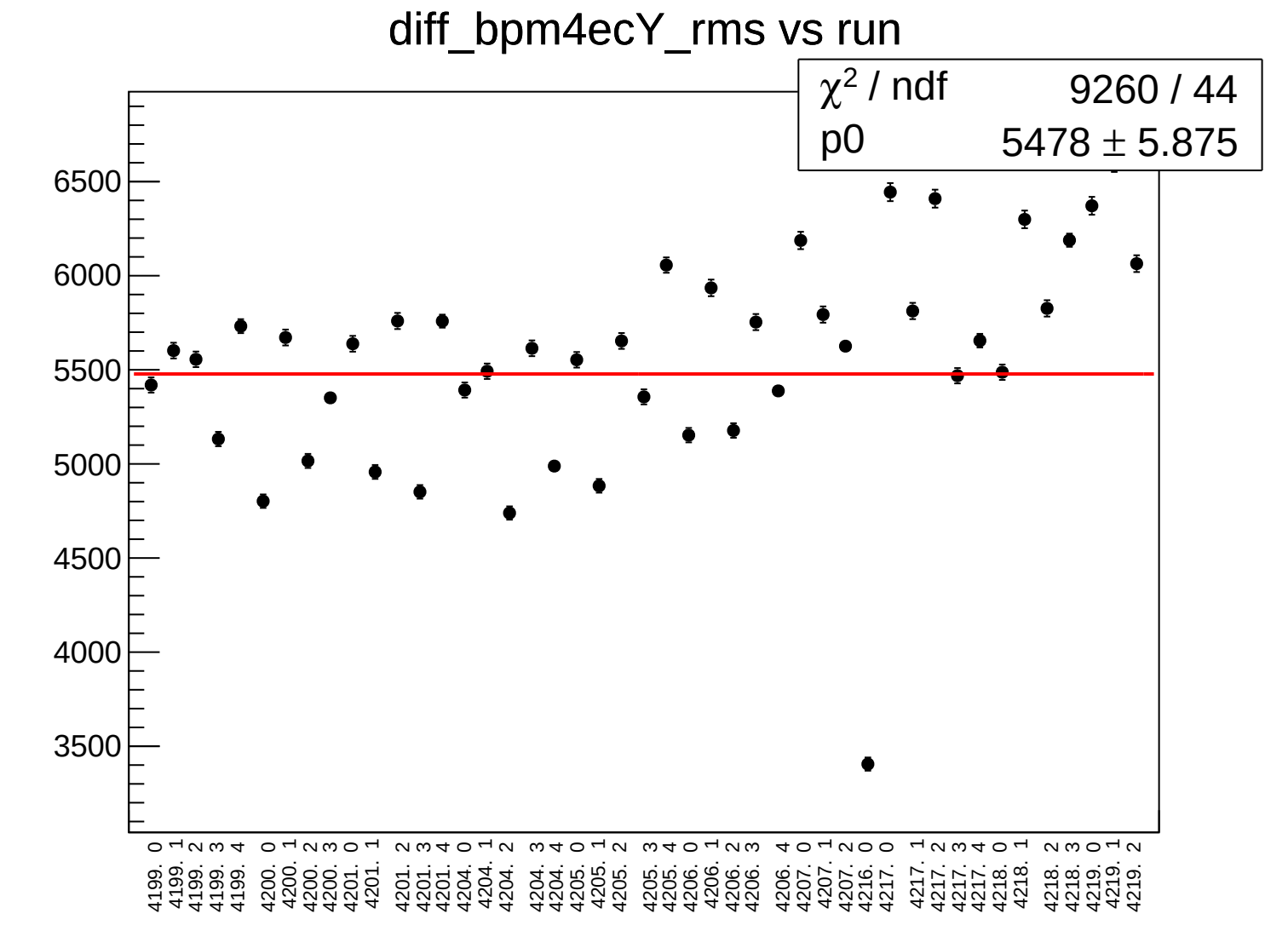

diff_bpm4ecX_mean vs run
χ^2 / ndf 51.43 / 44
p0 22.09 ± 12.39
300
200
100
0
−100
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −51.71
Std Dev 90.77
2
1
0
−1
−2

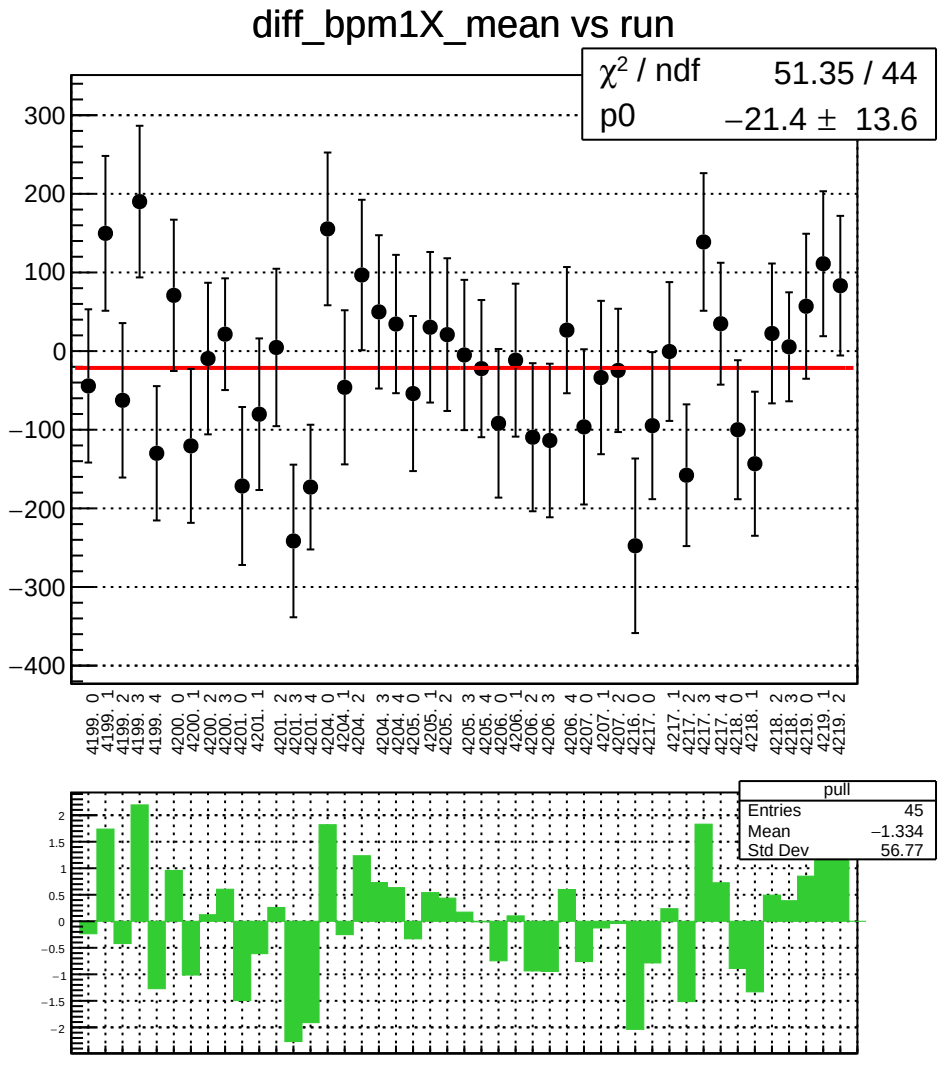

pull1D
Entries 45
Mean 0.00958
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

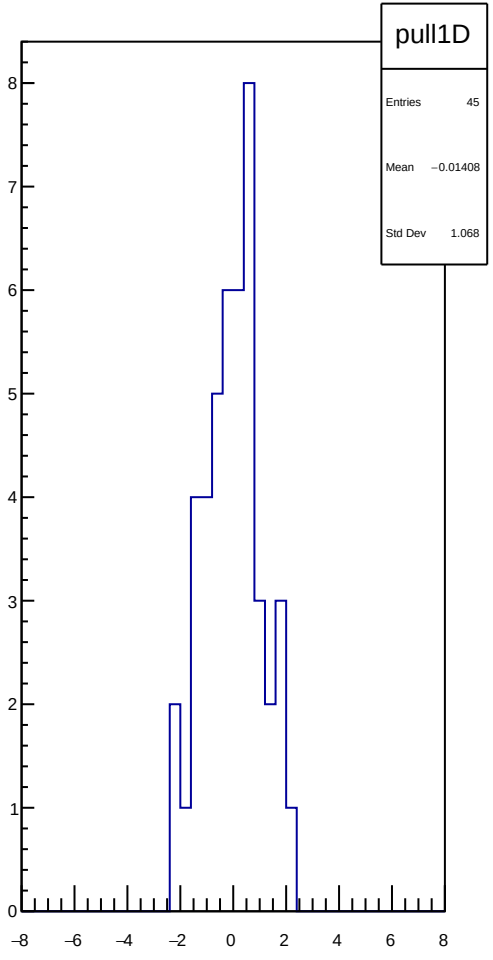

diff_bpm4ecX_rms vs run
χ² / ndf 2562 / 44
p0 8199 ± 8.761
9000
8500
8000
7500
7000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

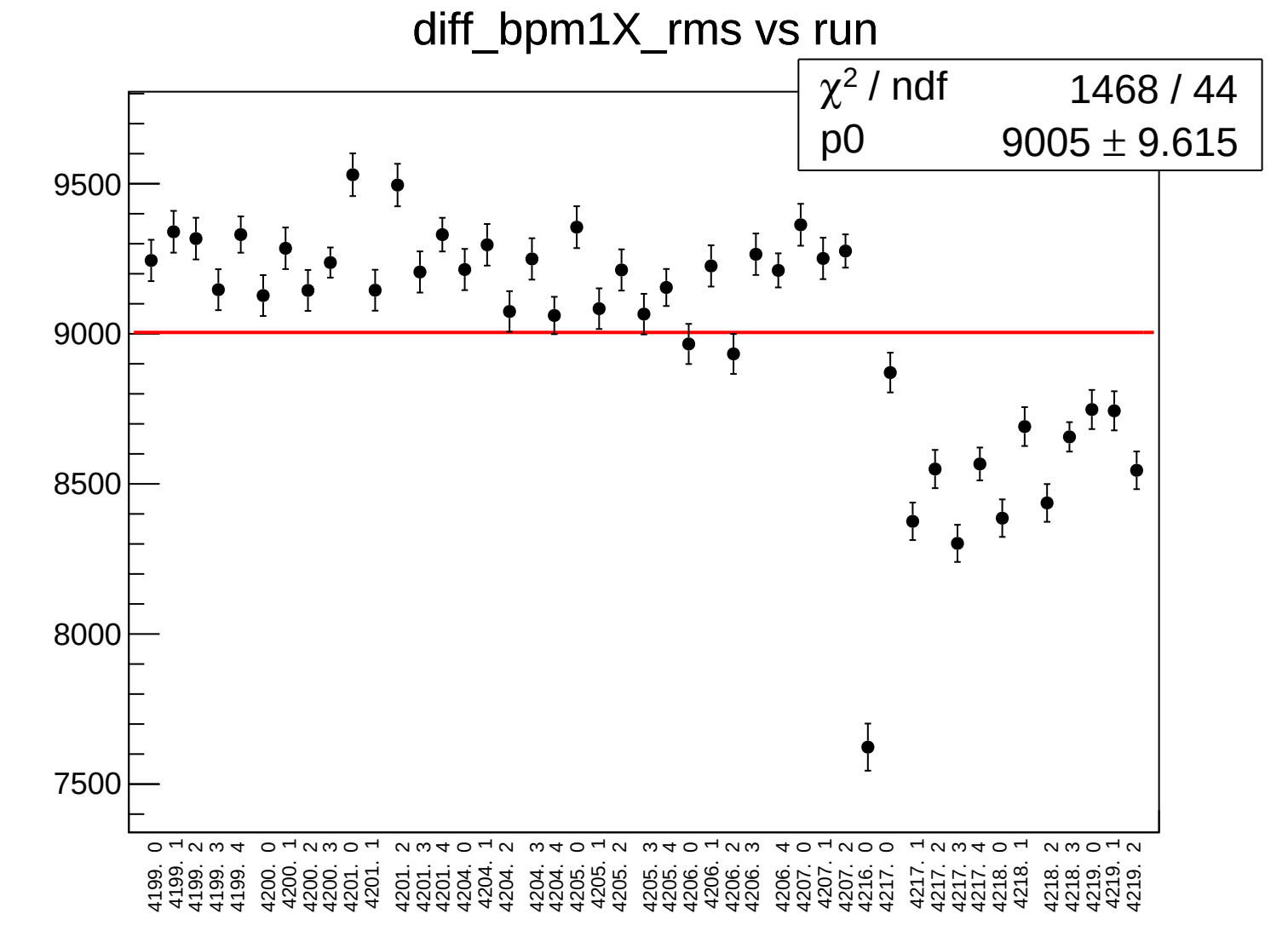

diff_bpm4ecY_mean vs run
χ² / ndf 41.44 / 44
p0 −15.18 ± 8.309
150
100
50
0
−50
−100
−150
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −158.1
Std Dev 184.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

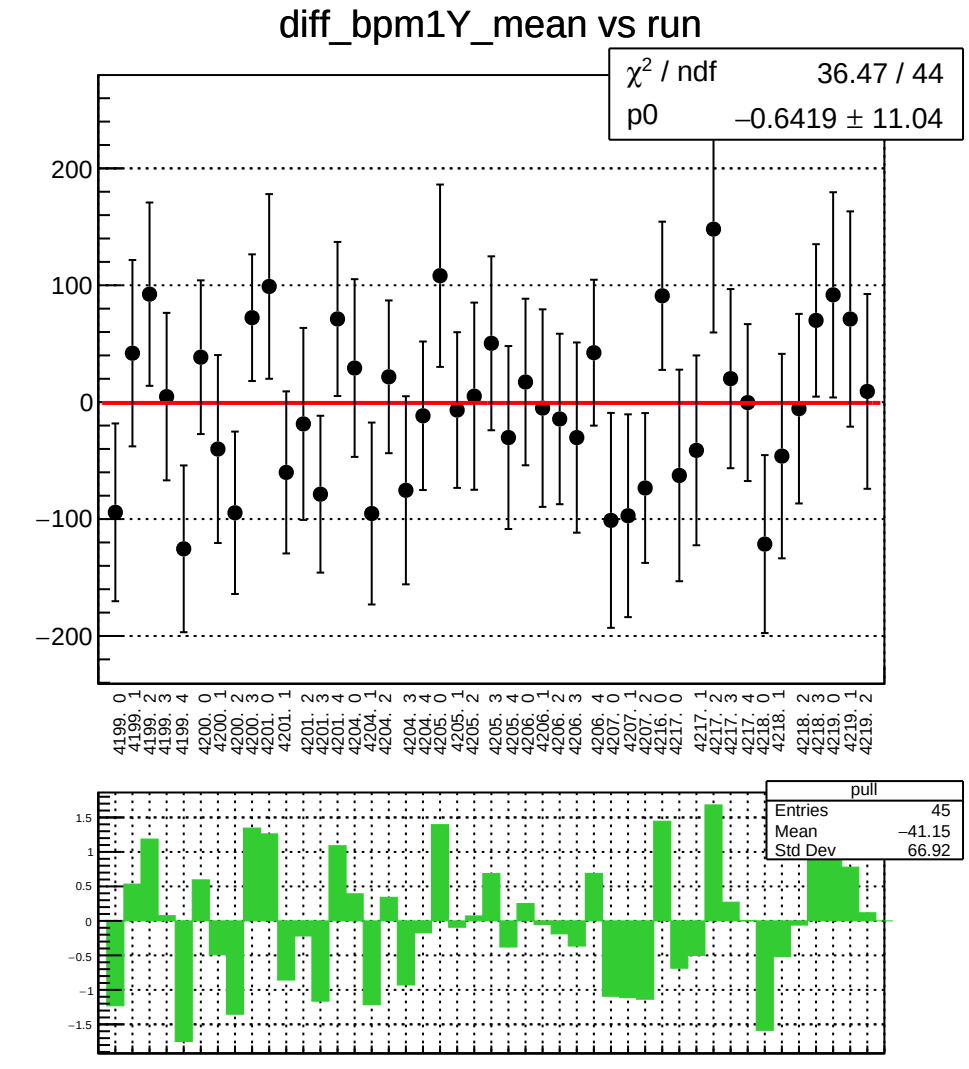

pull1D
Entries 45
Mean −0.009105
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

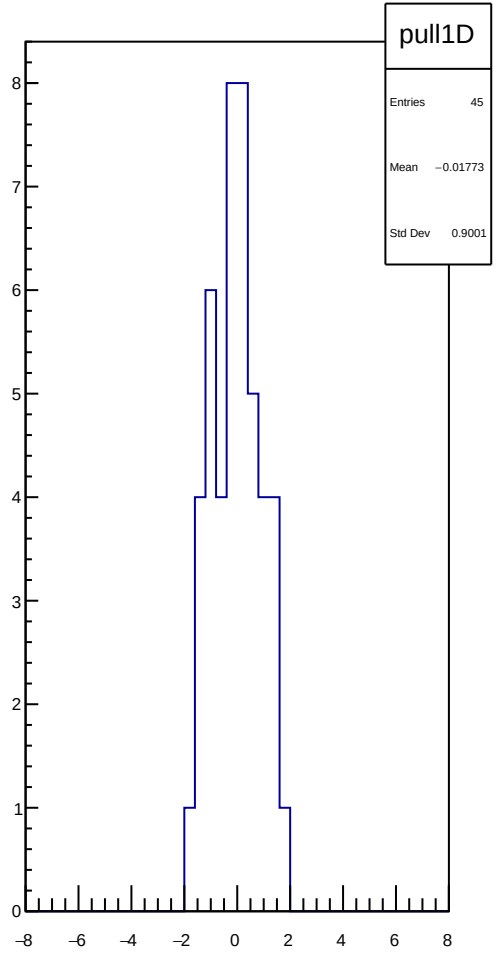

diff_bpm4ecY_rms vs run
χ² / ndf 9260 / 44
p0 5478 ± 5.875
6500
6000
5500
5000
4500
4000
3500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

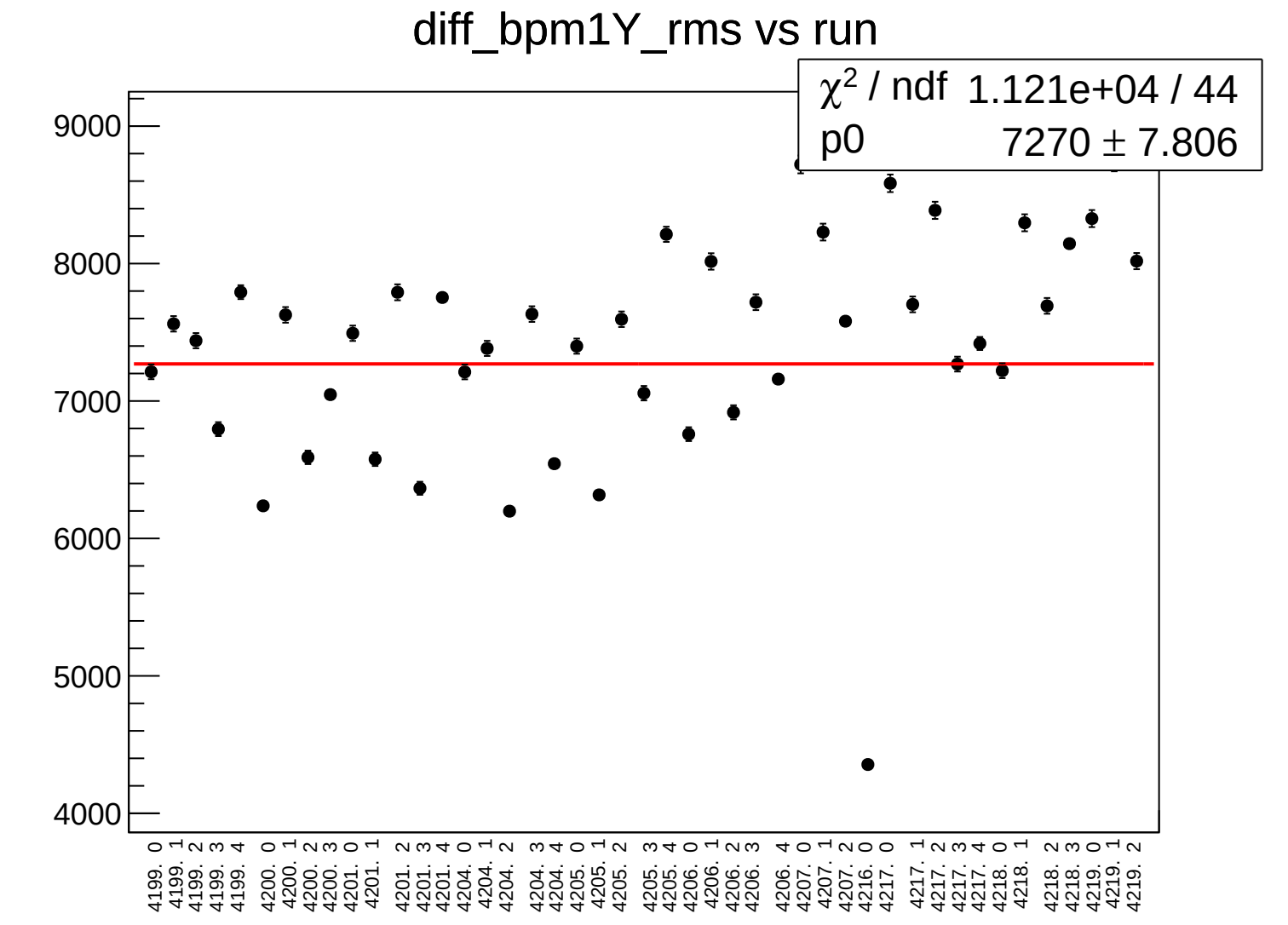

diff_bpm1X_mean vs run
χ² / ndf 51.35 / 44
p0 −21.4 ± 13.6
300
200
100
0
−100
−200
−300
−400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1.334
Std Dev 56.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

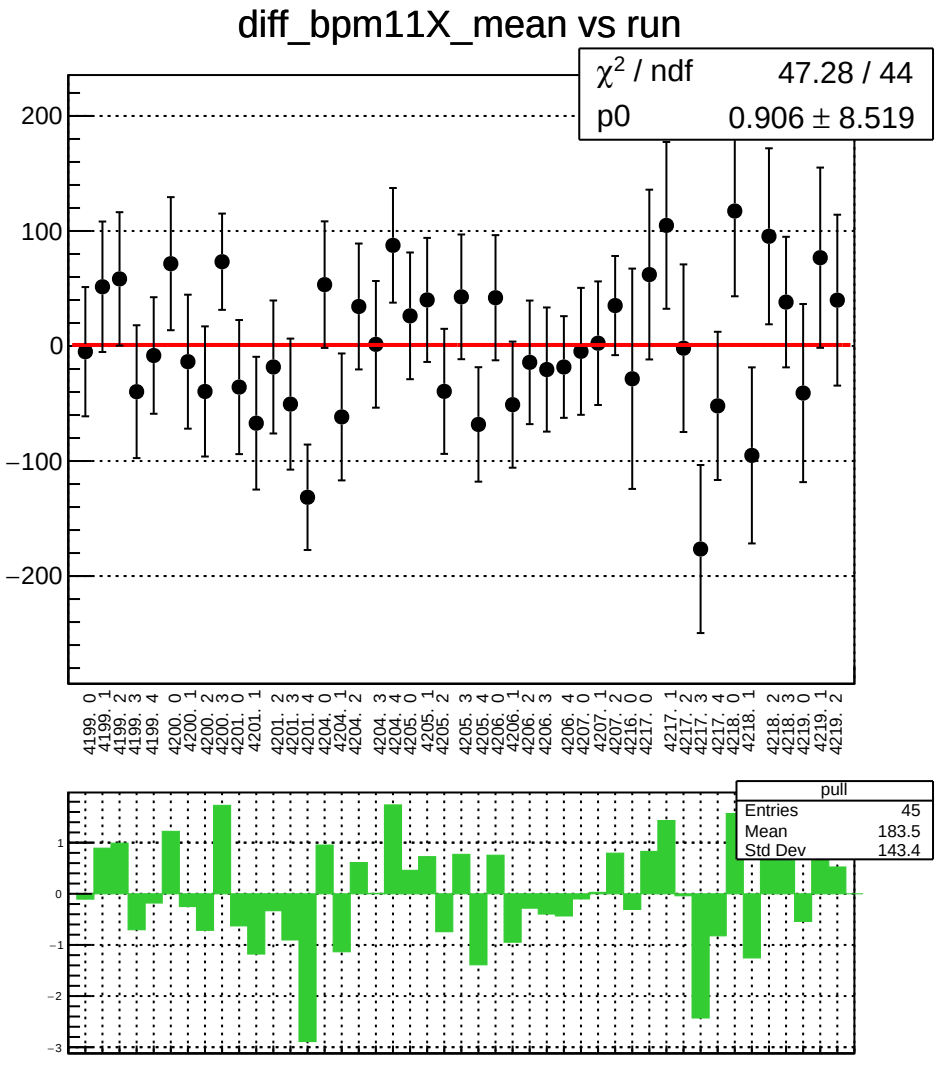

pull1D
Entries 45
Mean −0.01408
Std Dev 1.068
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

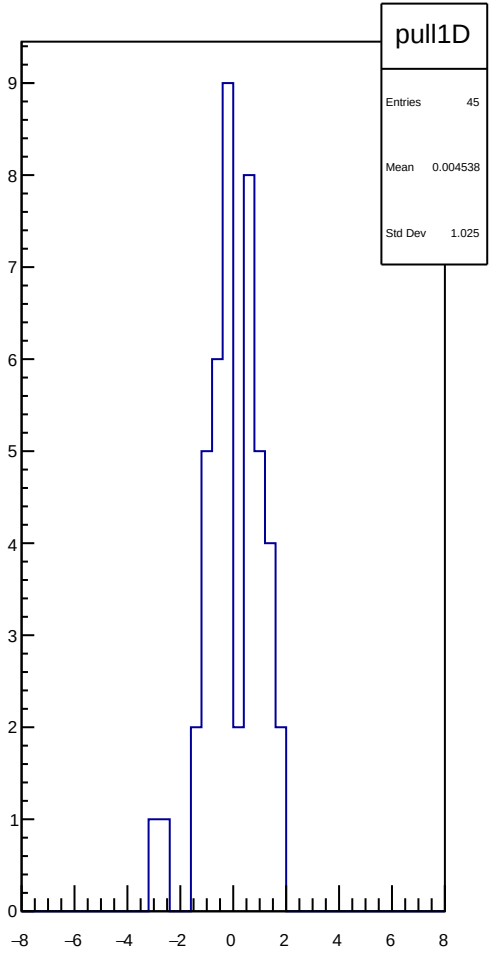

diff_bpm1X_rms vs run
χ² / ndf 1468 / 44
p0 9005 ± 9.615
9500
9000
8500
8000
7500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

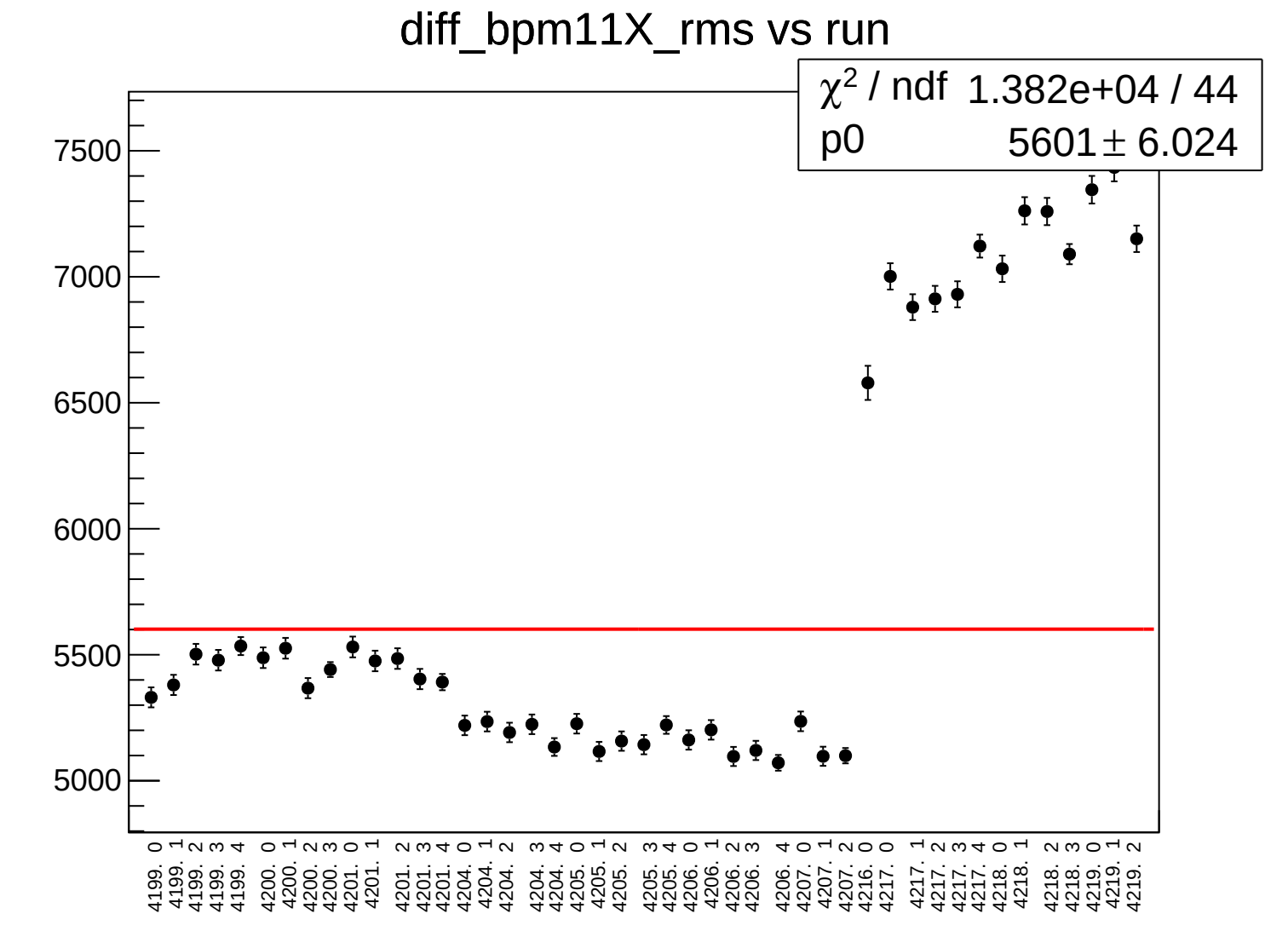

diff_bpm1Y_mean vs run
χ² / ndf 36.47 / 44
p0 −0.6419 ± 11.04
200
100
0
−100
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −41.15
Std Dev 66.92
1.5
1
0.5
0
−0.5
−1
−1.5

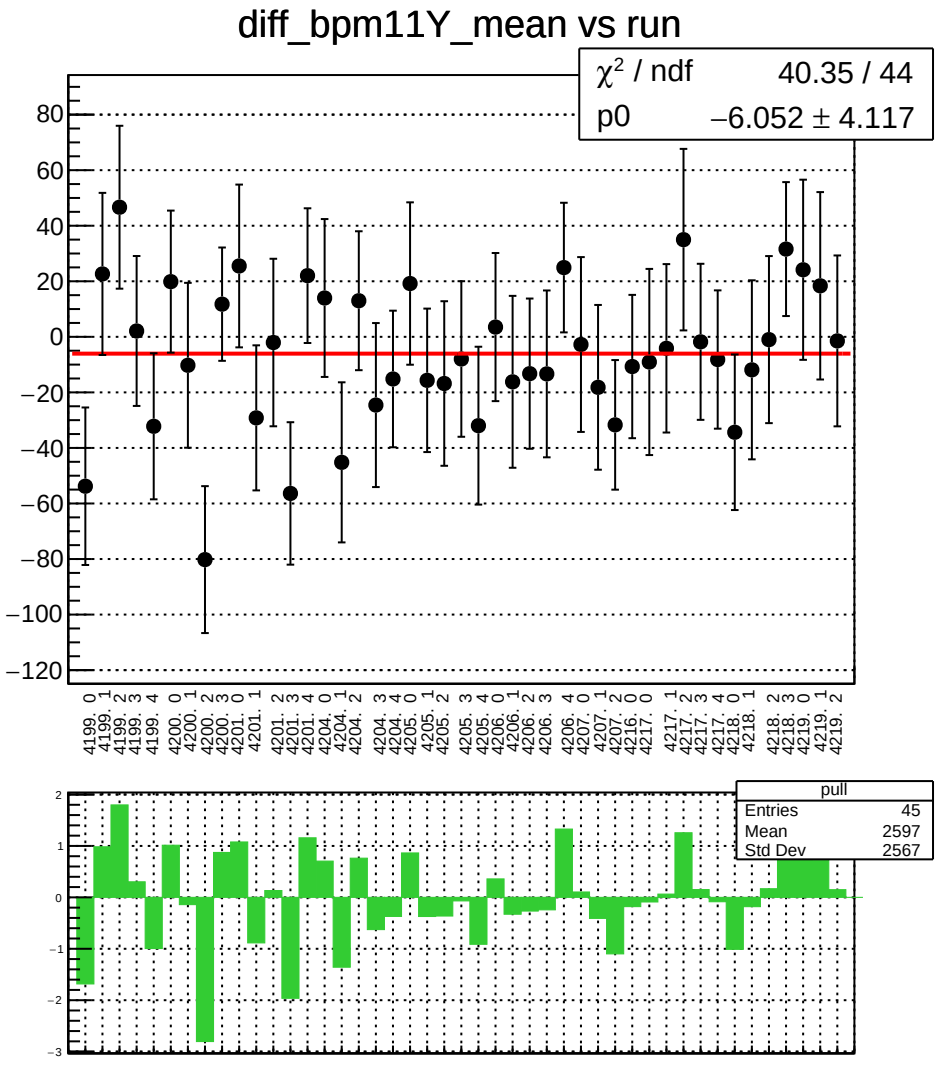

pull1D
Entries 45
Mean −0.01773
Std Dev 0.9001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

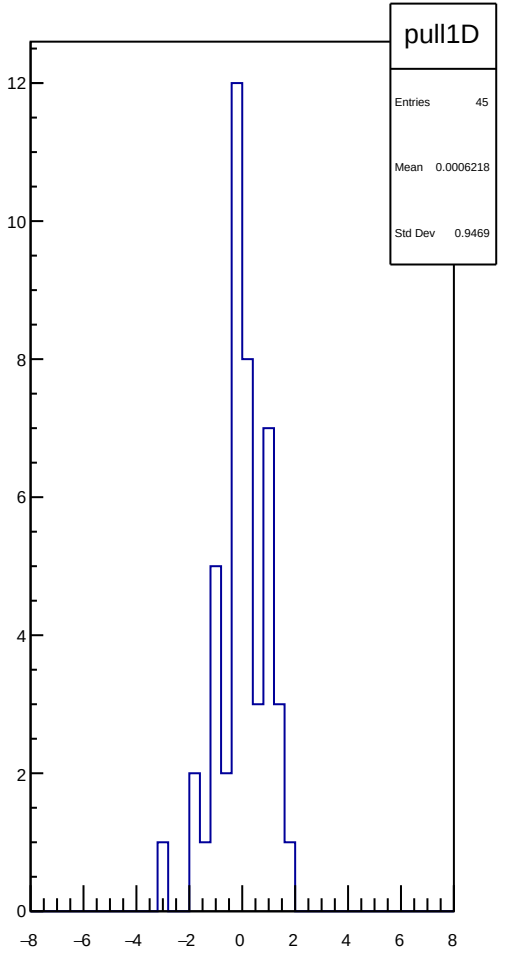

diff_bpm1Y_rms vs run
χ² / ndf 1.121e+04 / 44
p0 7270 ± 7.806
9000
8000
7000
6000
5000
4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

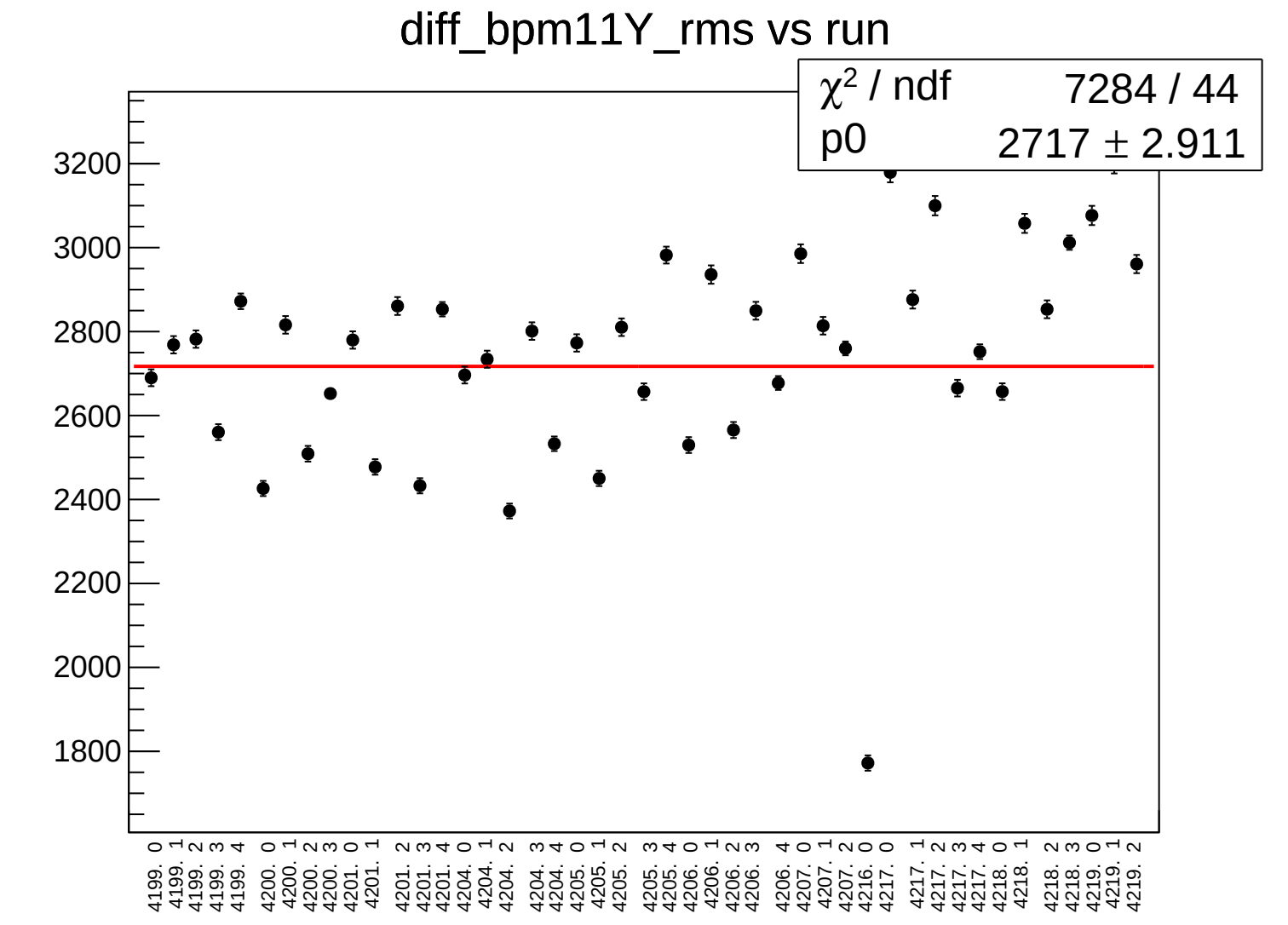

diff_bpm11X_mean vs run
χ² / ndf 47.28 / 44
p0 0.906 ± 8.519
200
100
0
−100
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 183.5
Std Dev 143.4
1
0
−1
−2
−3

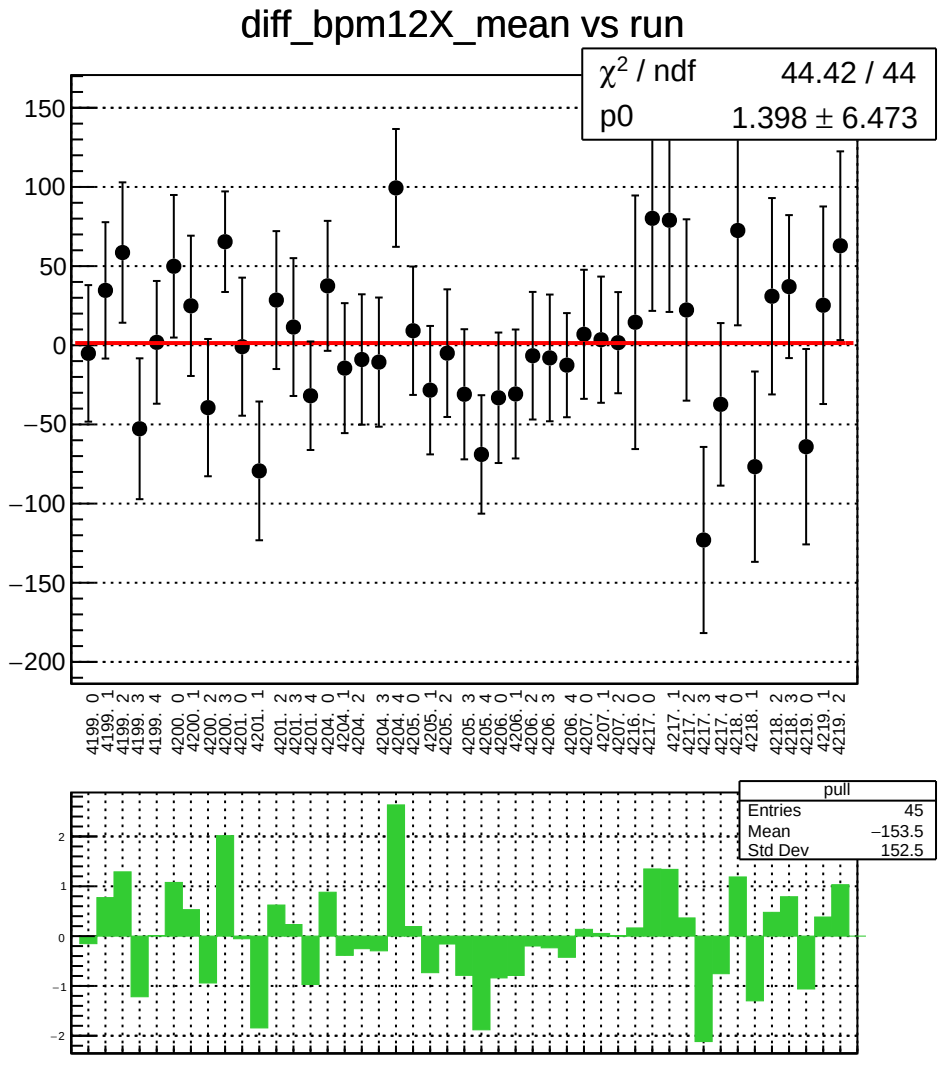

pull1D
Entries 45
Mean 0.004538
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

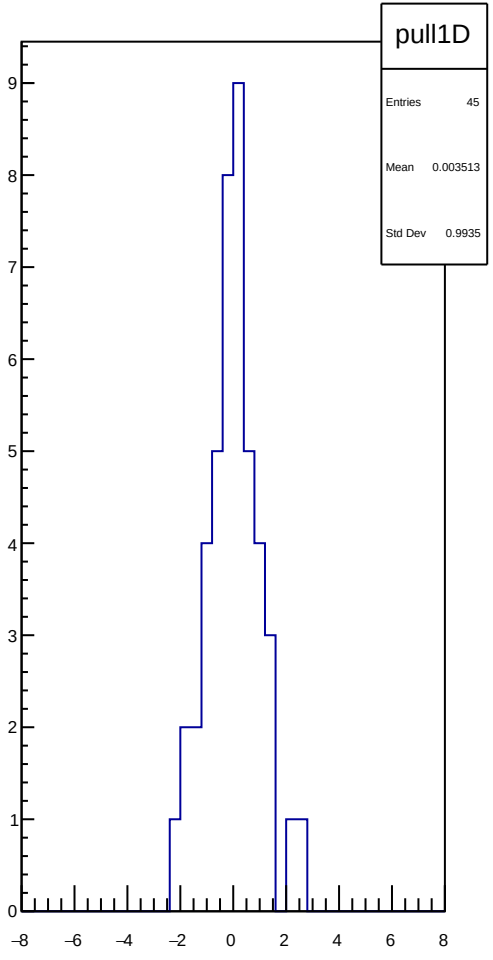

diff_bpm11X_rms vs run
χ² / ndf 1.382e+04 / 44
p0 5601 ± 6.024
7500
7000
6500
6000
5500
5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

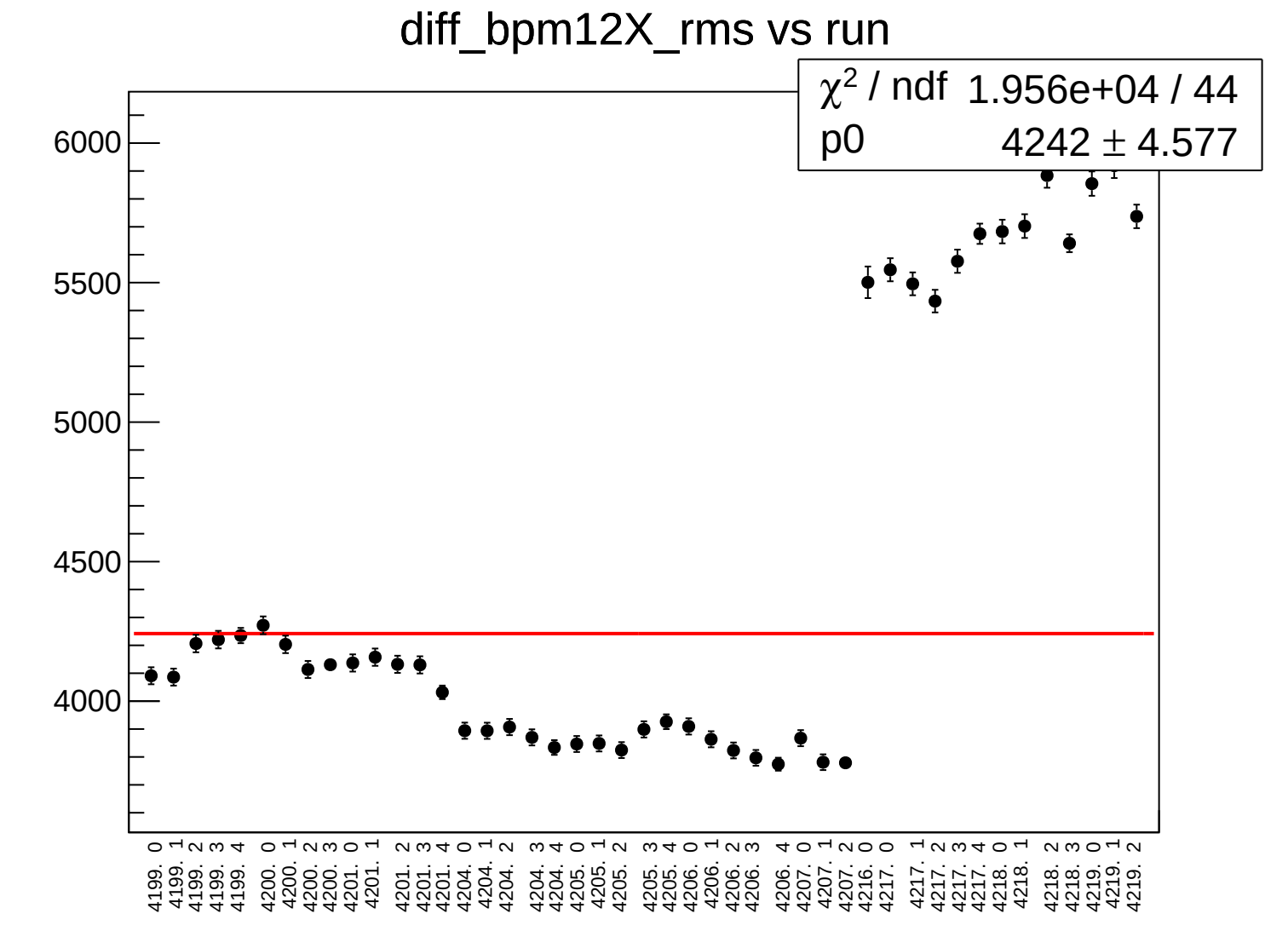

diff_bpm11Y_mean vs run
χ² / ndf 40.35 / 44
p0 −6.052 ± 4.117
pull
Entries 45
Mean 2597
Std Dev 2567

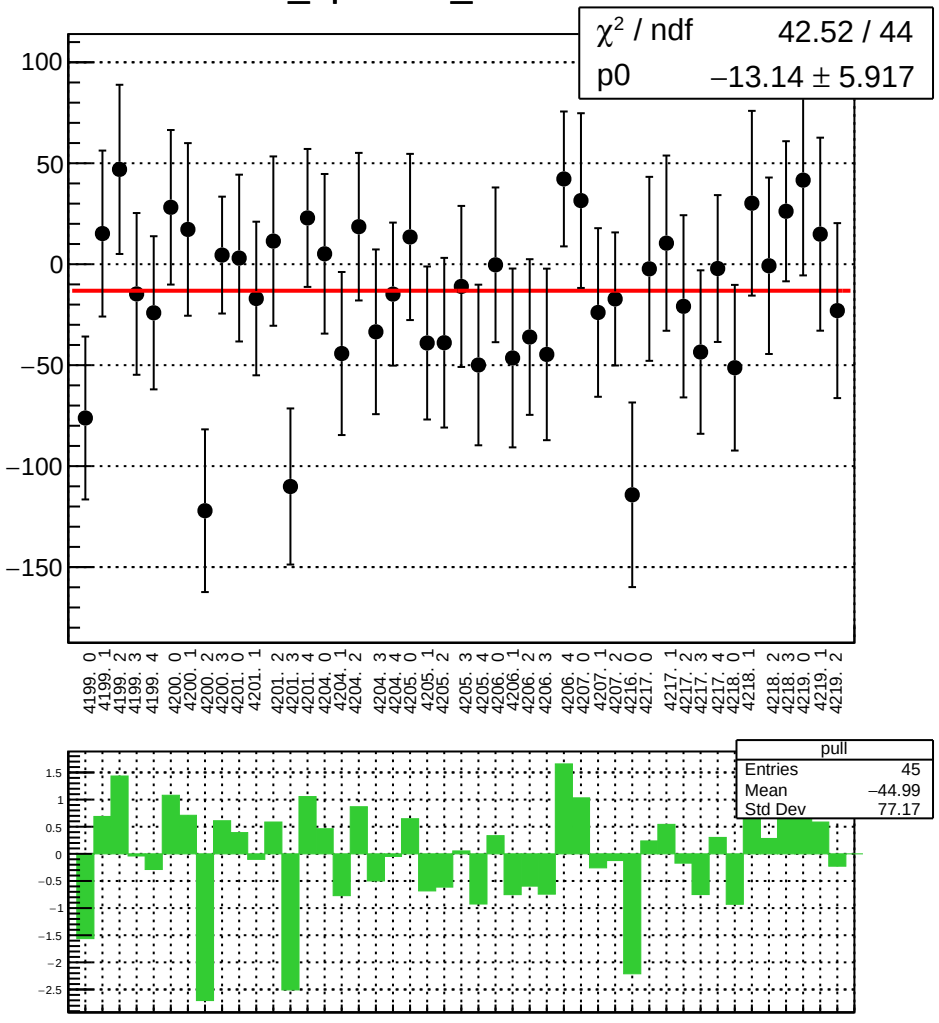

pull1D
Entries 45
Mean 0.0006218
Std Dev 0.9469

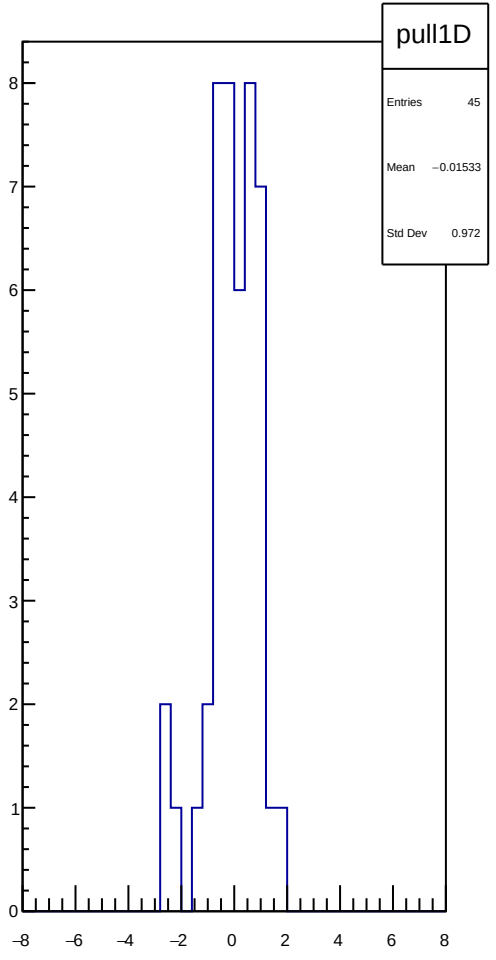

diff_bpm11Y_rms vs run
χ² / ndf 7284 / 44
p0 2717 ± 2.911
3200
3000
2800
2600
2400
2200
2000
1800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

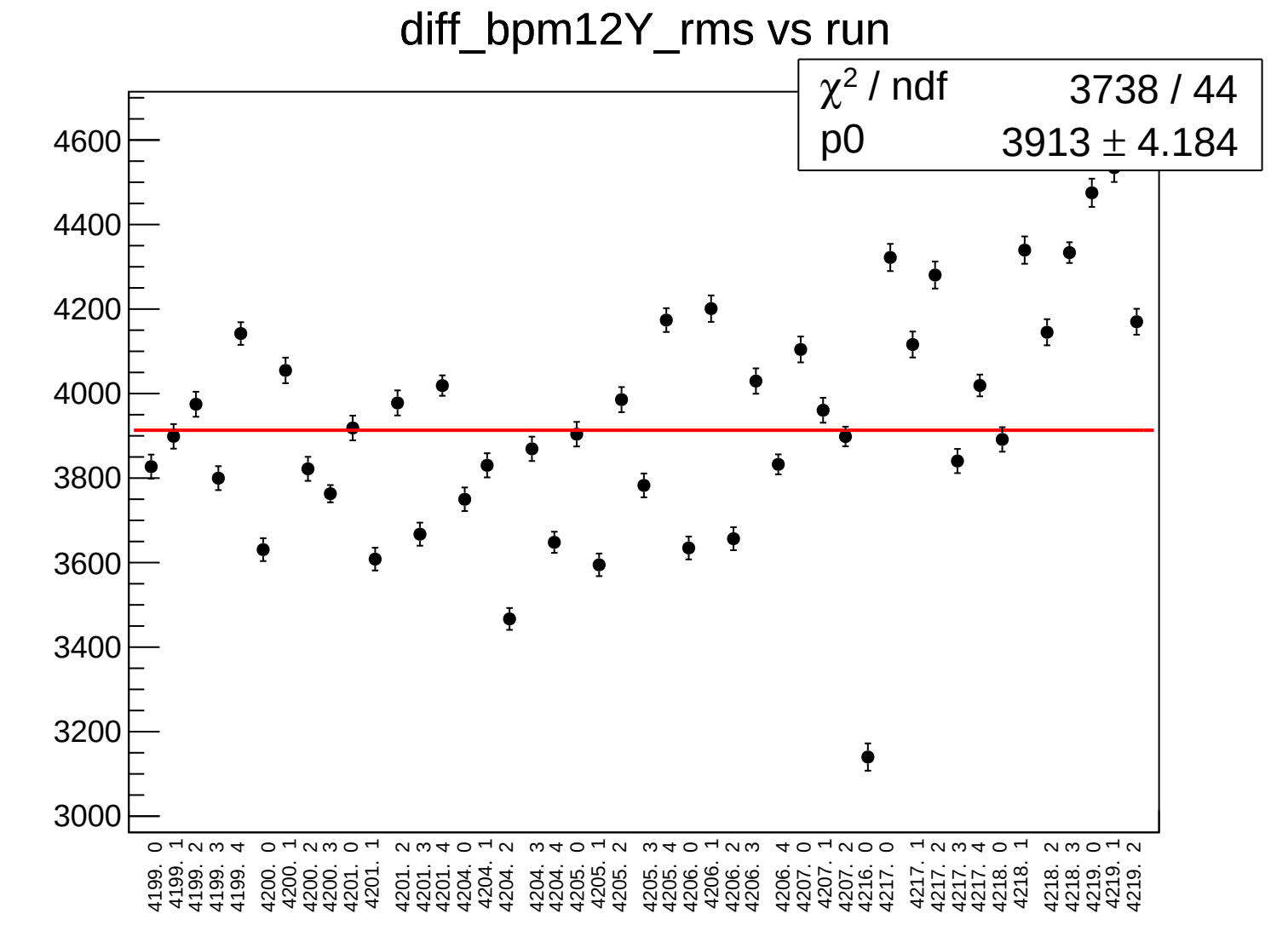

diff_bpm12X_mean vs run
χ² / ndf 44.42 / 44
p0 1.398 ± 6.473
150
100
50
0
−50
−100
−150
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −153.5
Std Dev 152.5
2
1
0
−1
−2

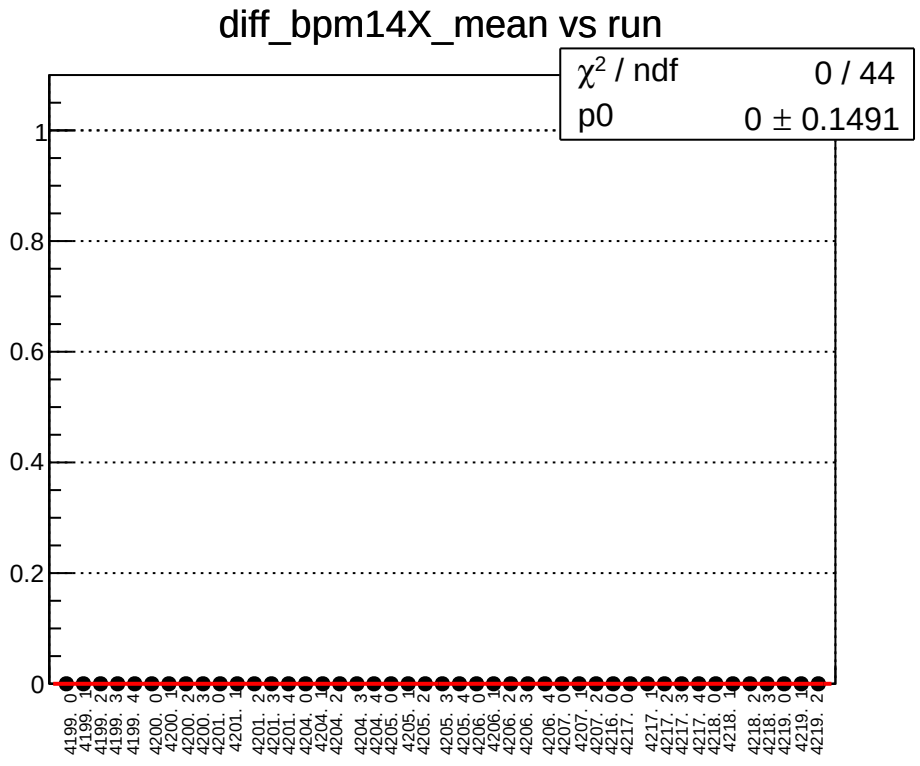

pull1D
Entries 45
Mean 0.003513
Std Dev 0.9935
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

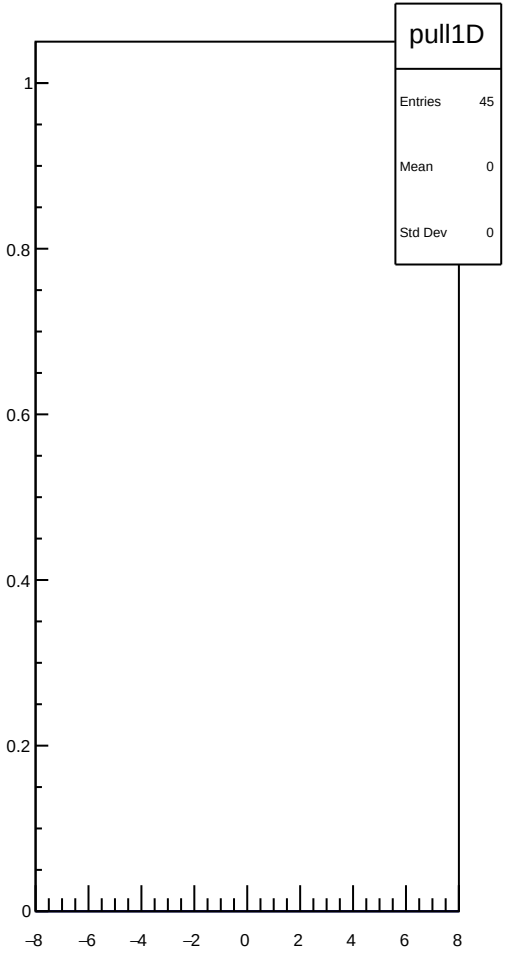

diff_bpm12X_rms vs run
χ² / ndf 1.956e+04 / 44
p0 4242 ± 4.577
6000
5500
5000
4500
4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

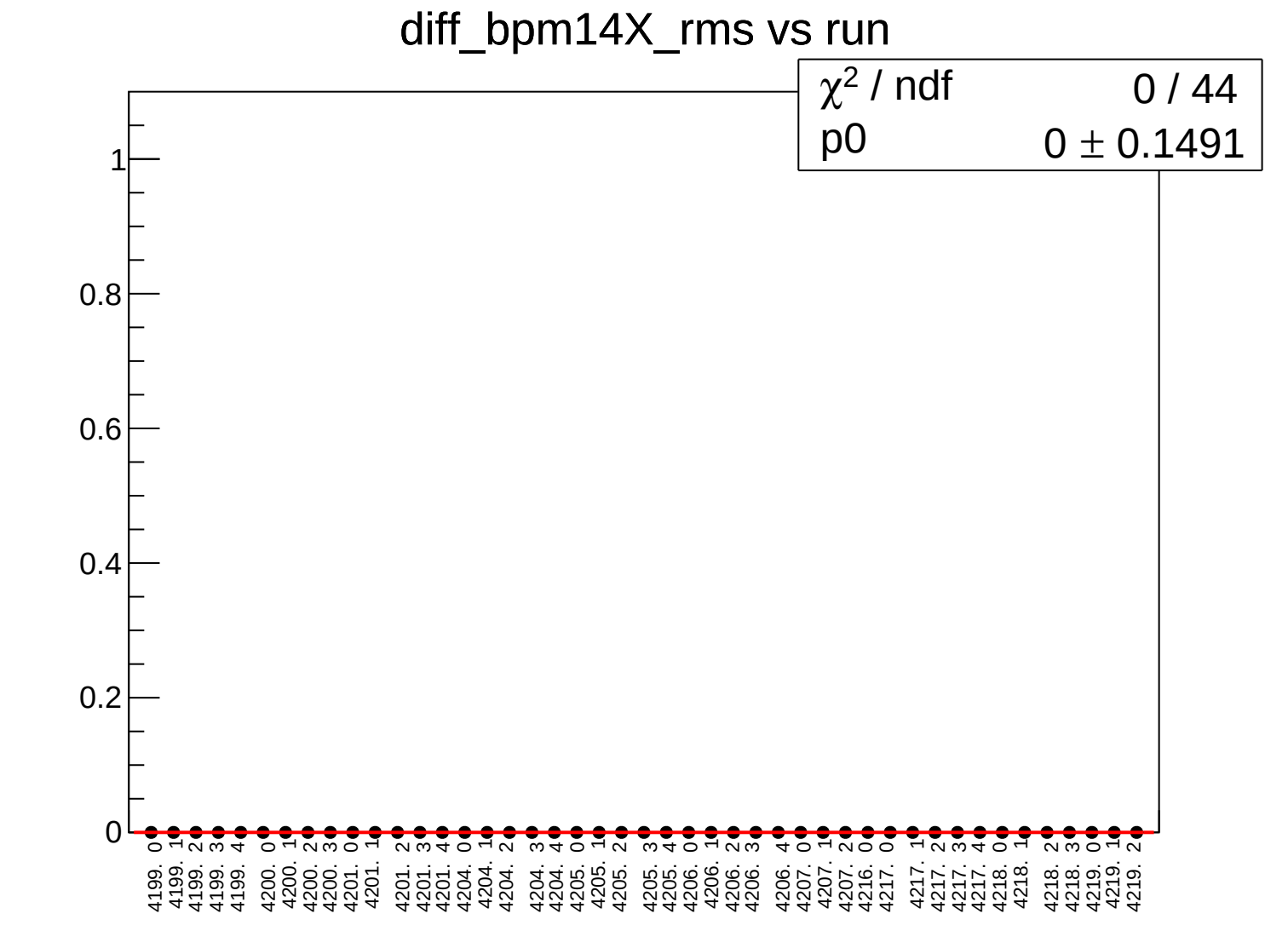

diff_bpm12Y_mean vs run
χ² / ndf 42.52 / 44
p0 −13.14 ± 5.917
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −44.99
Std Dev 77.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

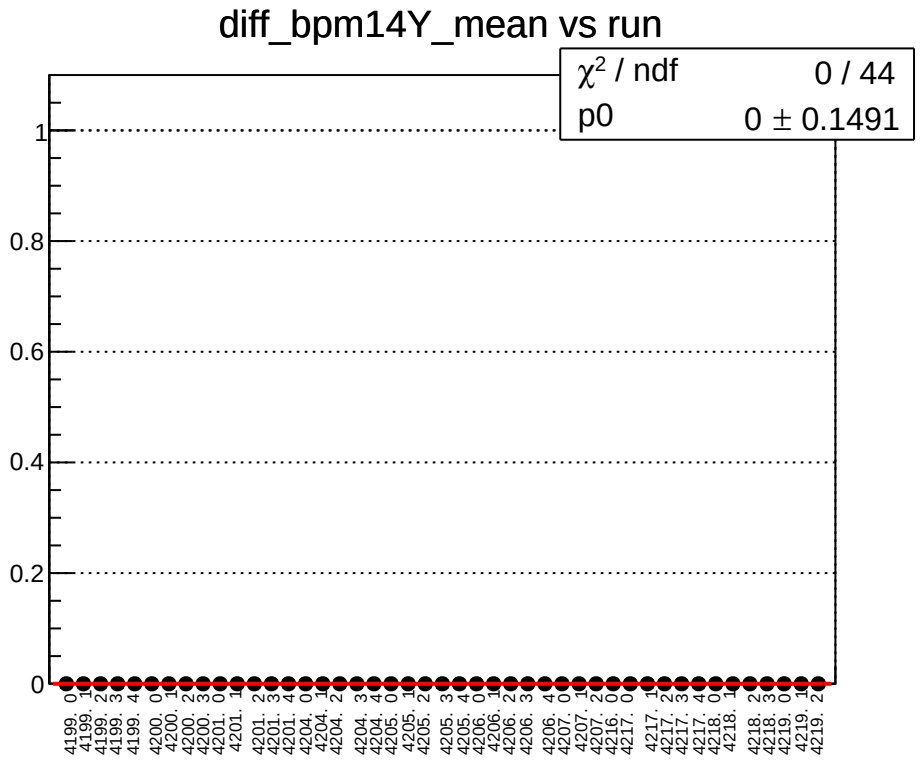

pull1D
Entries 45
Mean −0.01533
Std Dev 0.972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

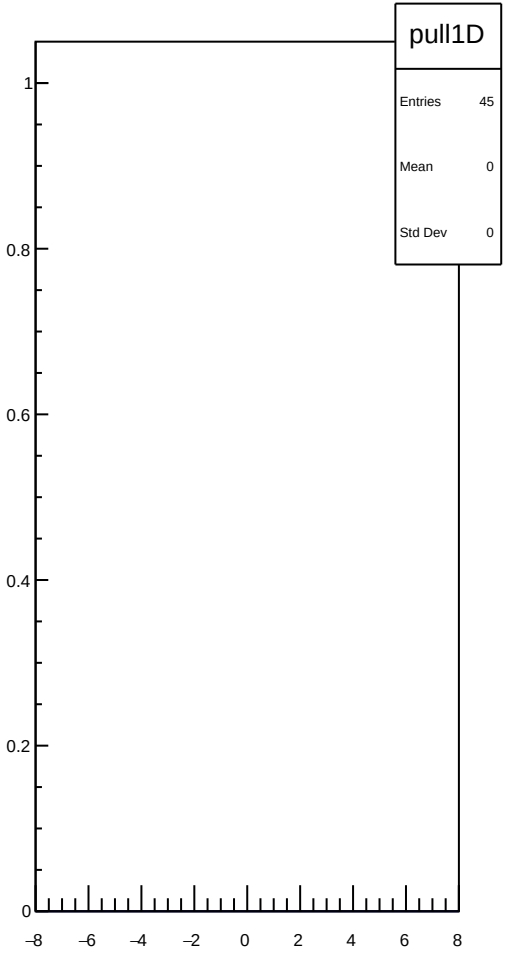

diff_bpm12Y_rms vs run
χ² / ndf 3738 / 44
p0 3913 ± 4.184
4600
4400
4200
4000
3800
3600
3400
3200
3000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

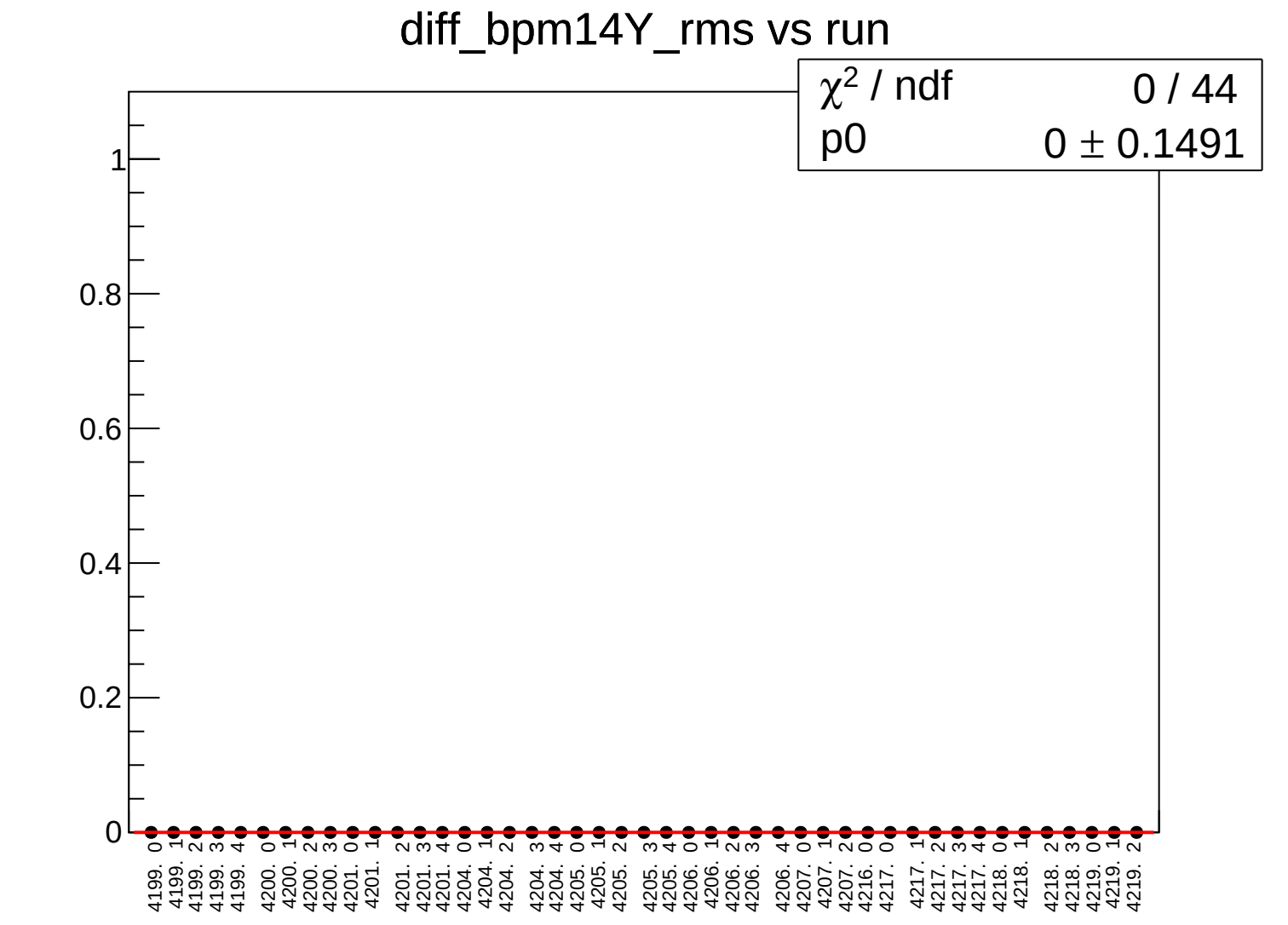

diff_bpm14X_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

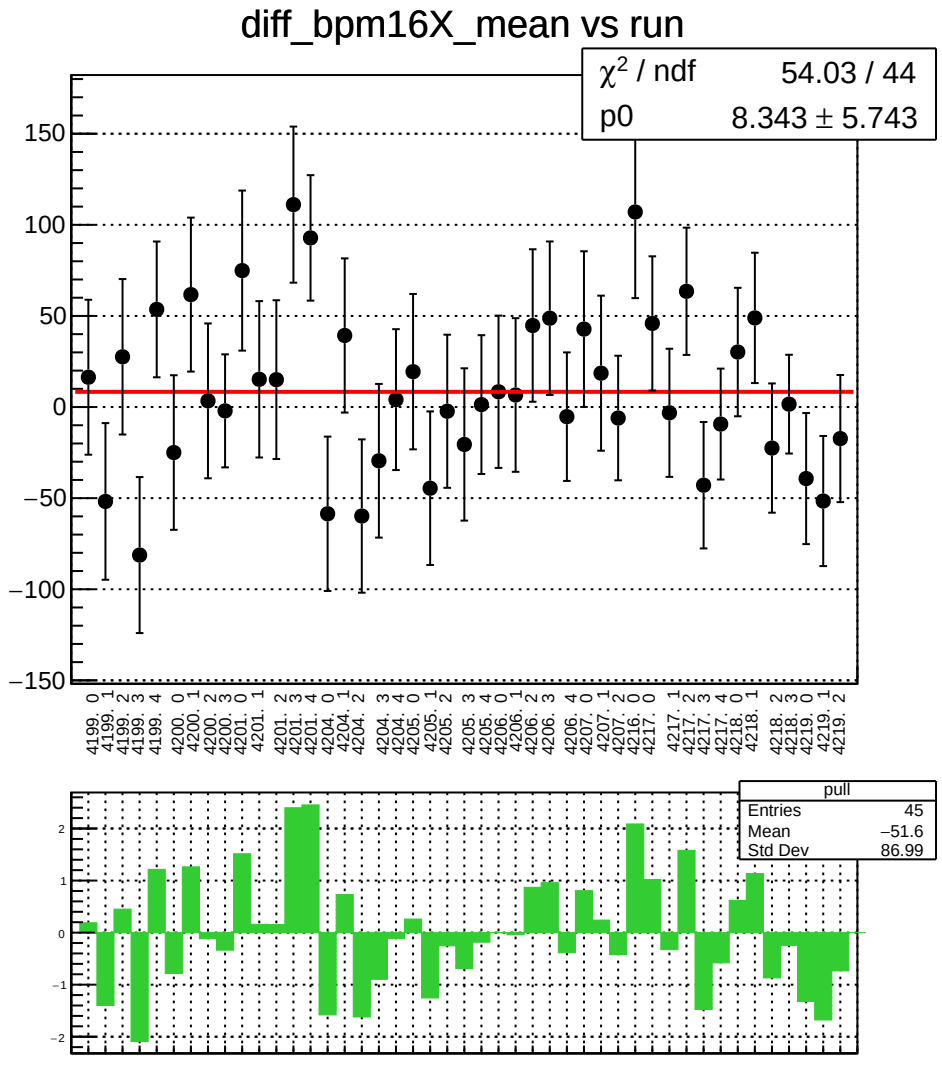

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

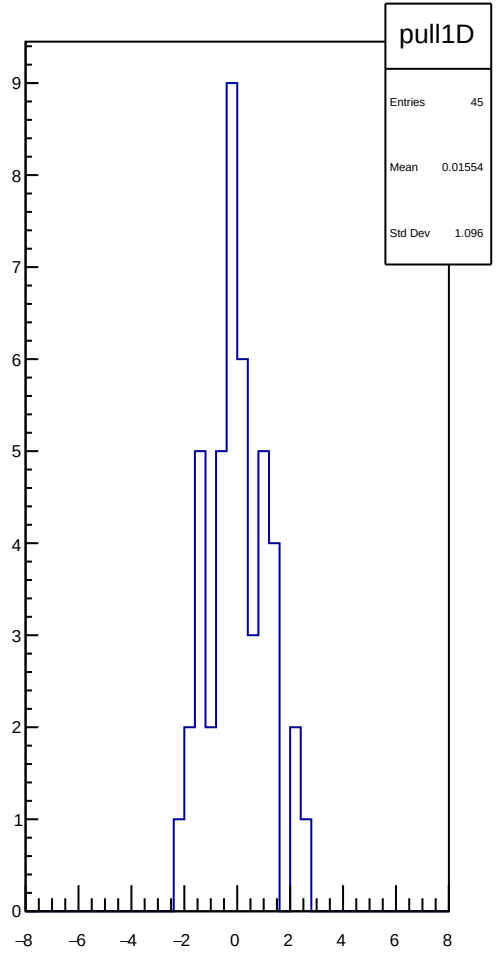

diff_bpm14X_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

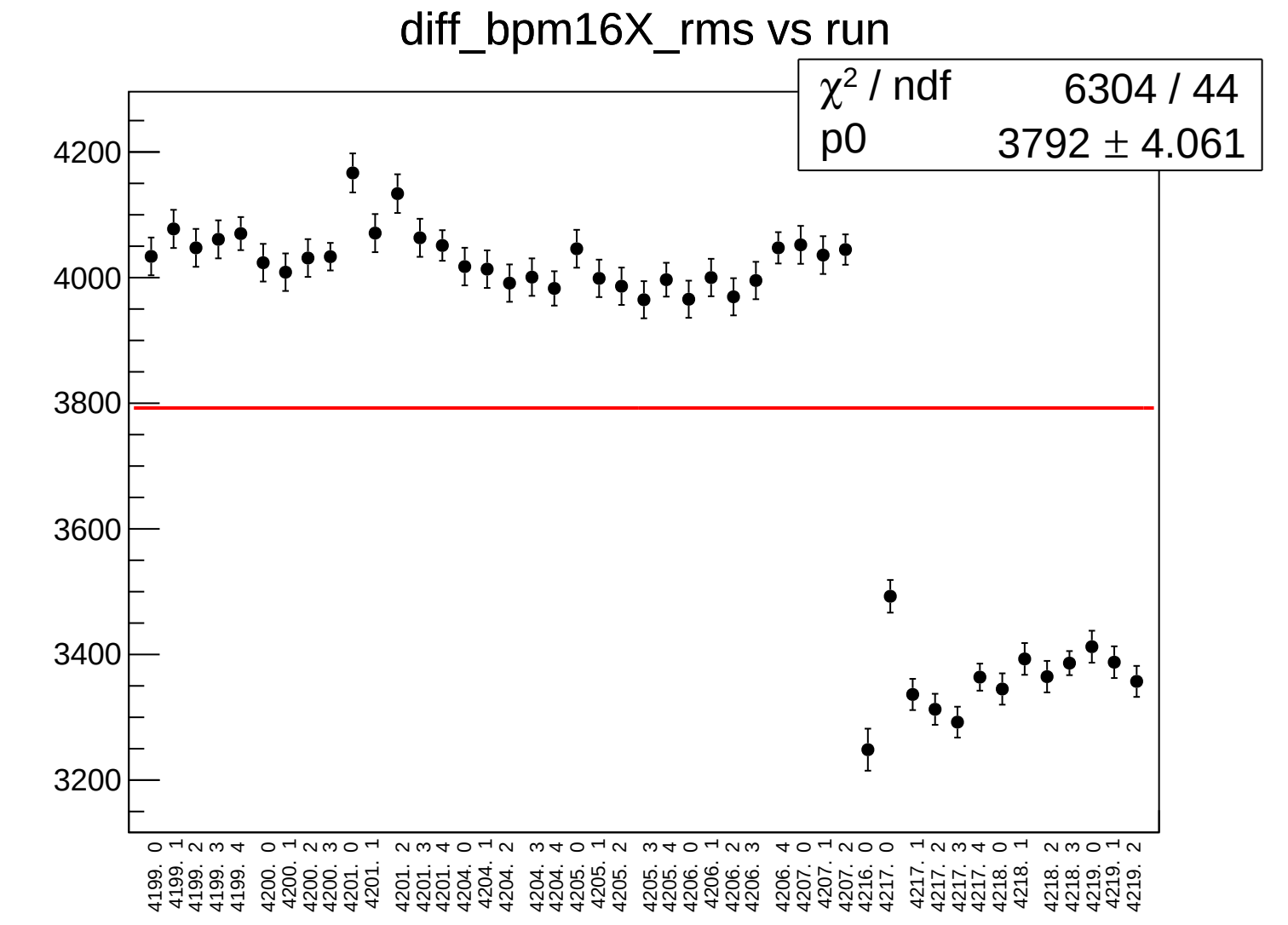

diff_bpm14Y_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

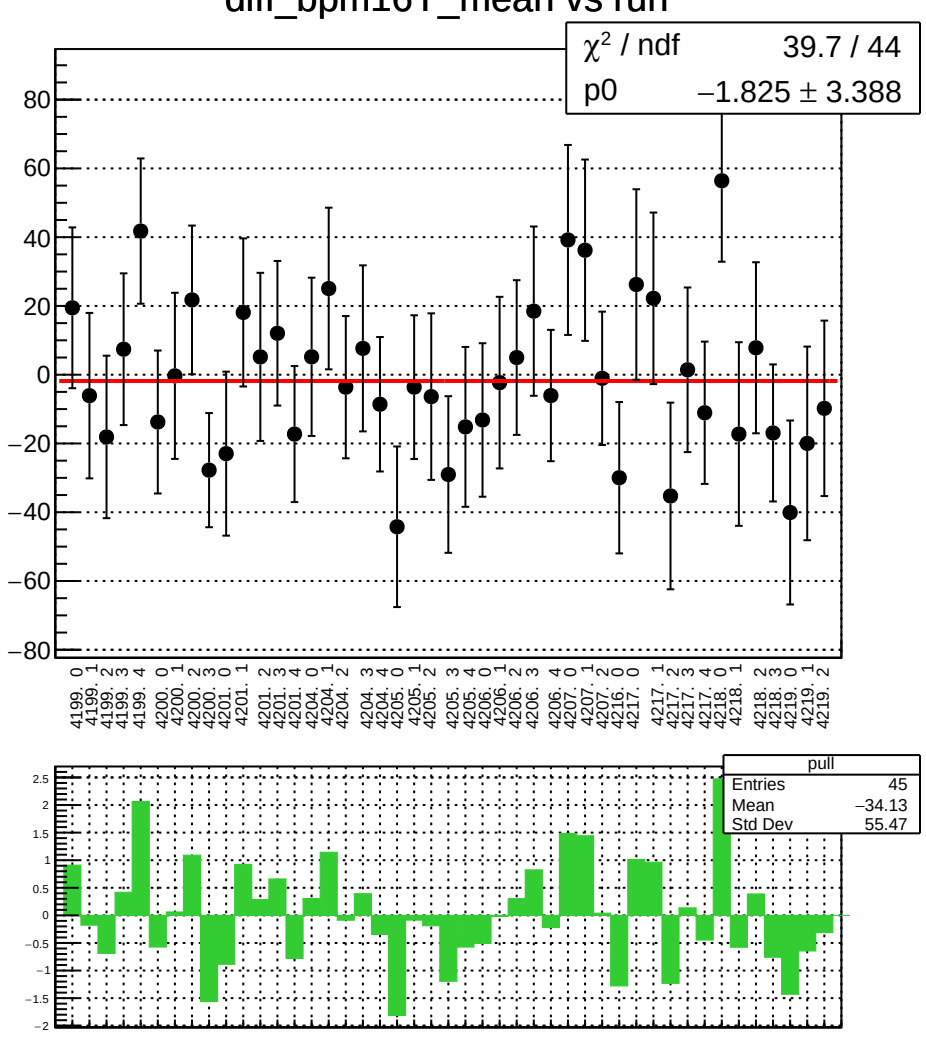

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

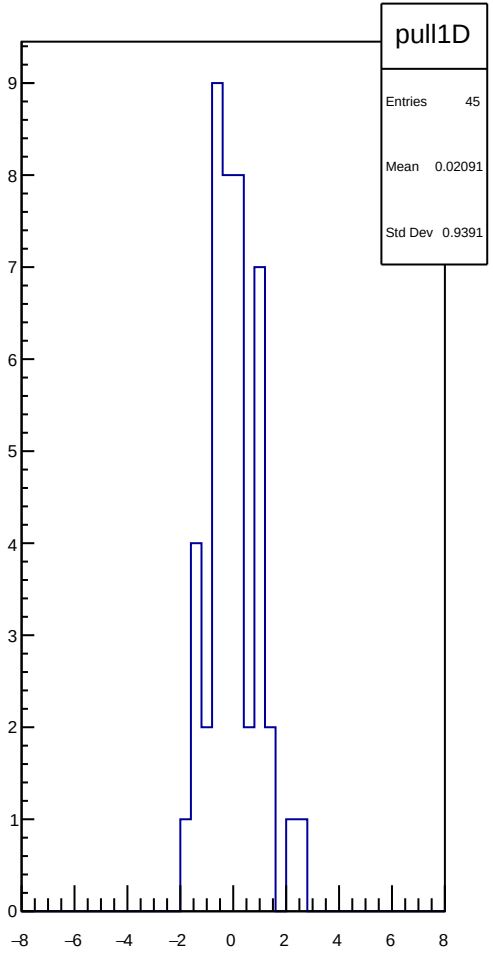

diff_bpm14Y_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

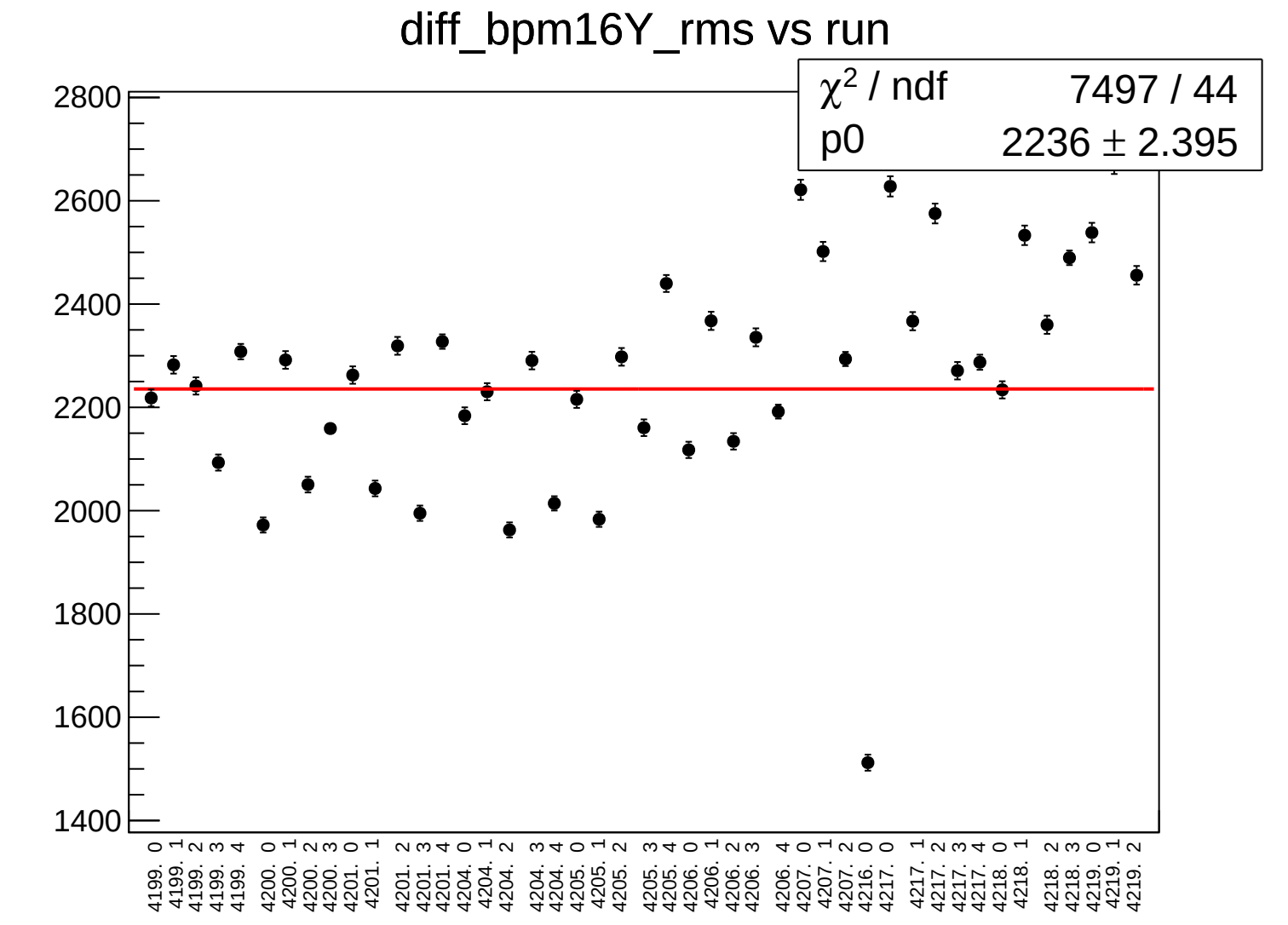

diff_bpm16X_mean vs run
χ² / ndf 54.03 / 44
p0 8.343 ± 5.743
150
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −51.6
Std Dev 86.99
2
1
0
−1
−2

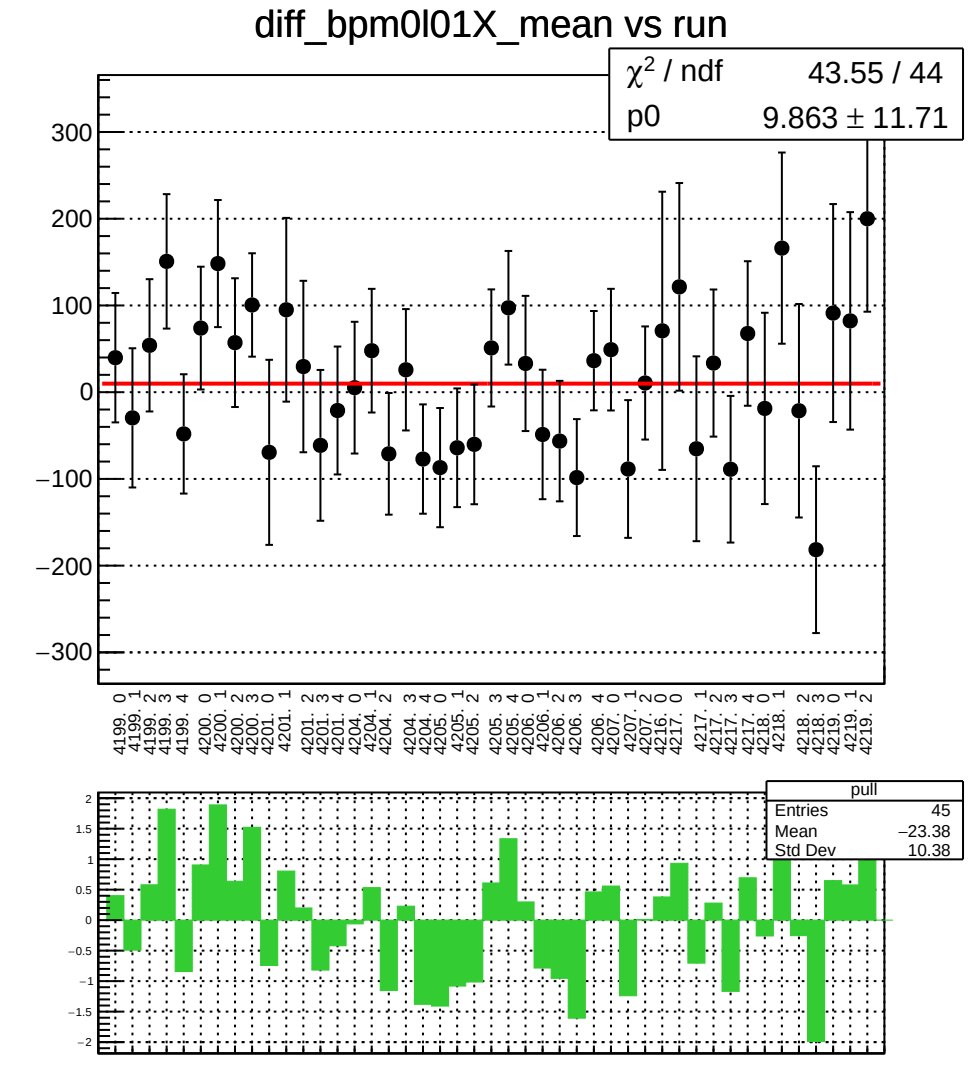

pull1D
Entries 45
Mean 0.01554
Std Dev 1.096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

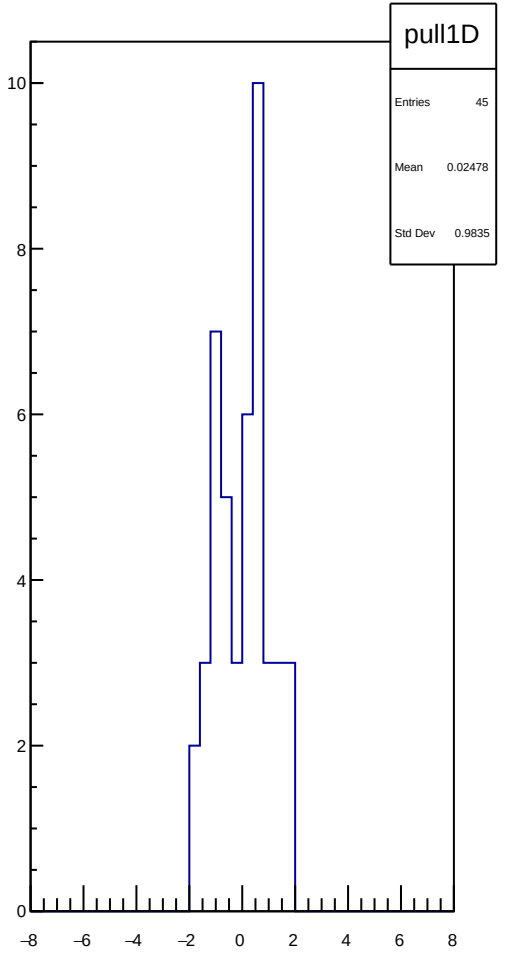

diff_bpm16X_rms vs run
χ² / ndf 6304 / 44
p0 3792 ± 4.061
4200
4000
3800
3600
3400
3200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

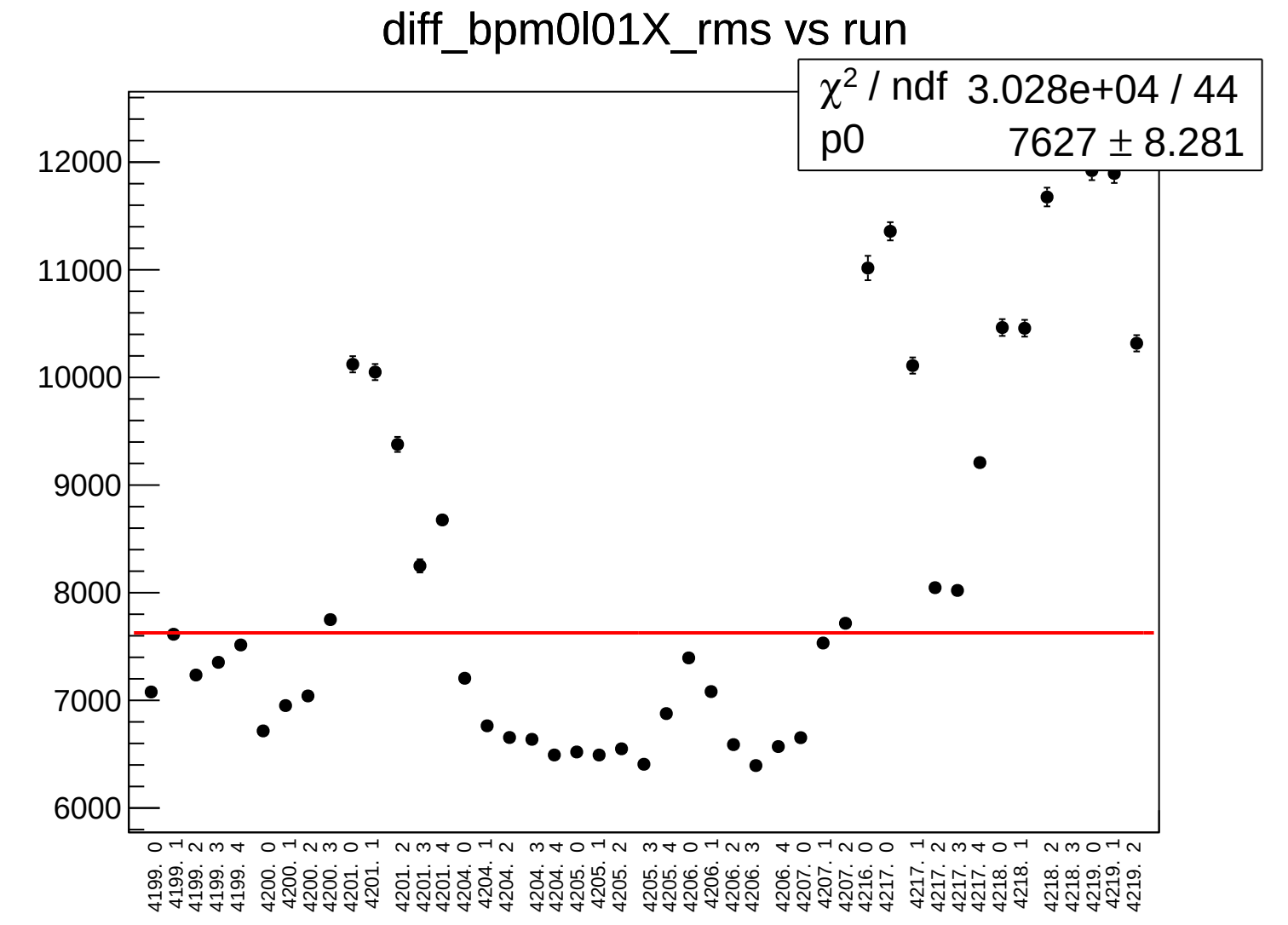

diff_bpm16Y_mean vs run
χ² / ndf 39.7 / 44
p0 −1.825 ± 3.388
pull
Entries 45
Mean −34.13
Std Dev 55.47

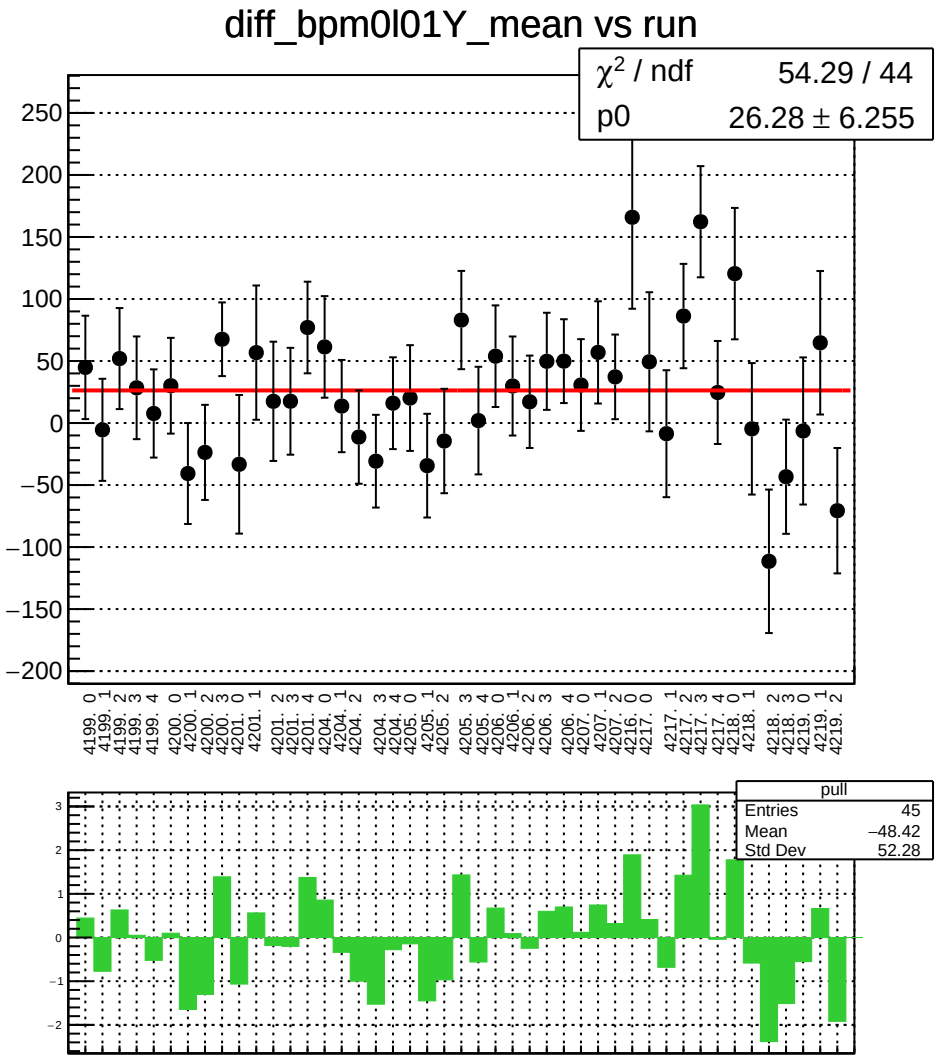

pull1D
Entries 45
Mean 0.02091
Std Dev 0.9391

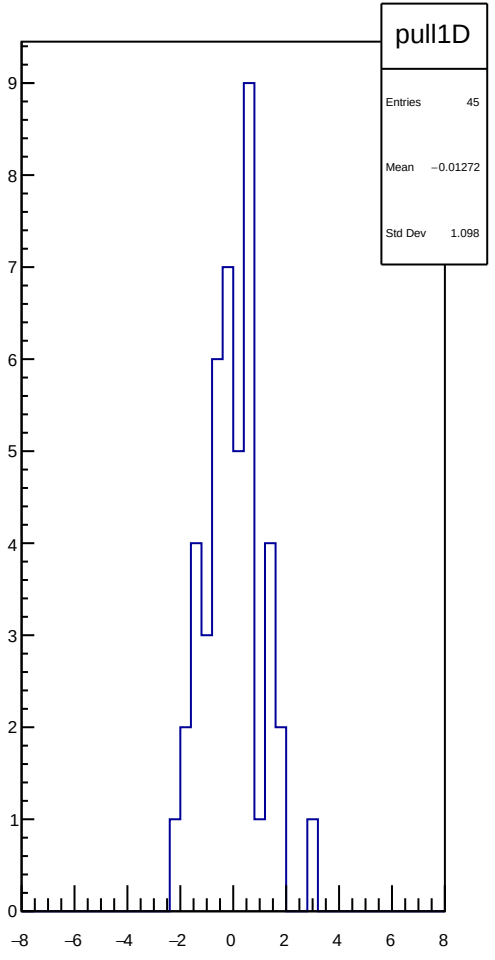

diff_bpm16Y_rms vs run
χ² / ndf 7497 / 44
p0 2236 ± 2.395
2800
2600
2400
2200
2000
1800
1600
1400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

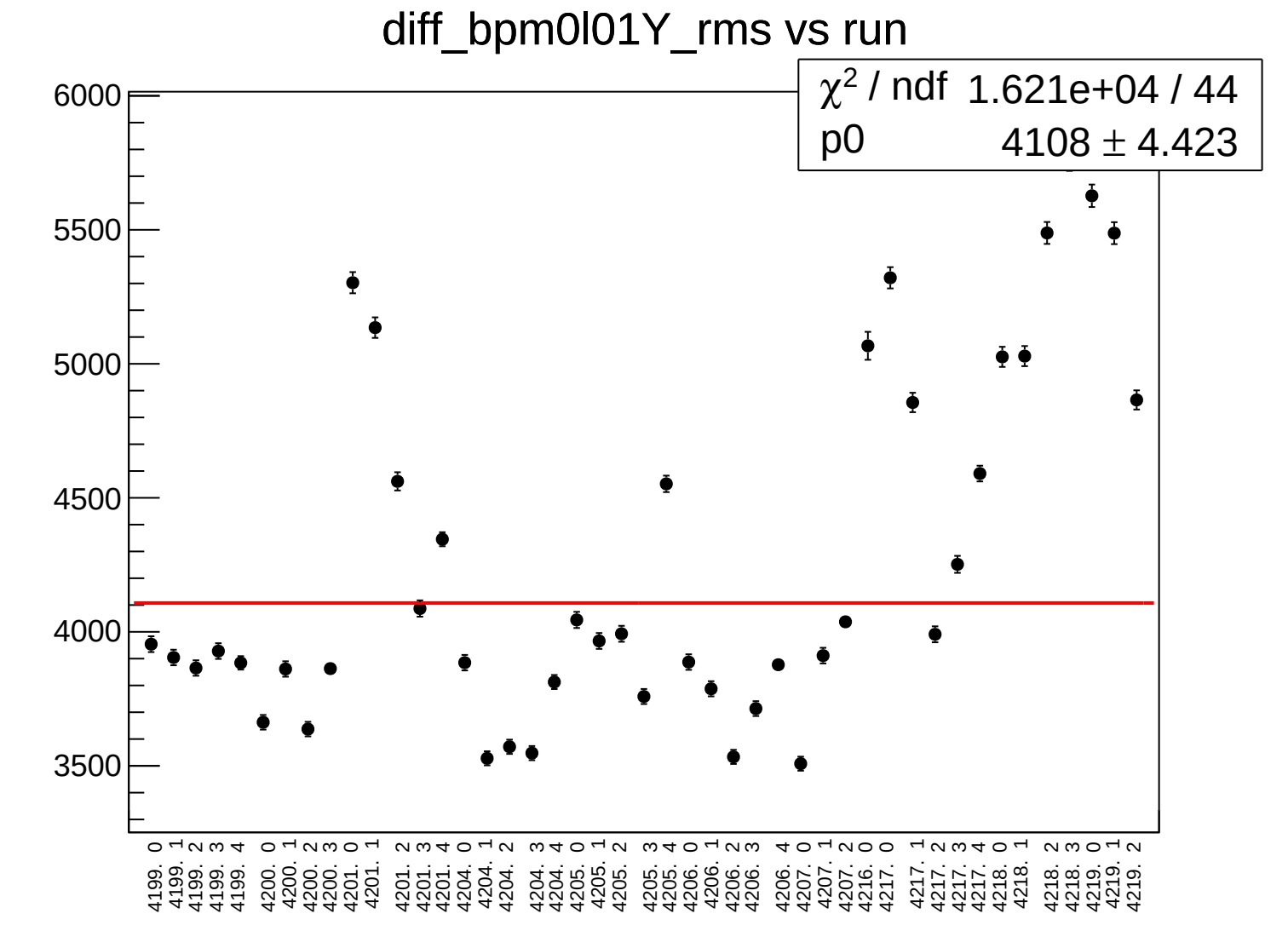

diff_bpm0l01X_mean vs run
χ^2 / ndf 43.55 / 44
p0 9.863 ± 11.71
300
200
100
0
−100
−200
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −23.38
Std Dev 10.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

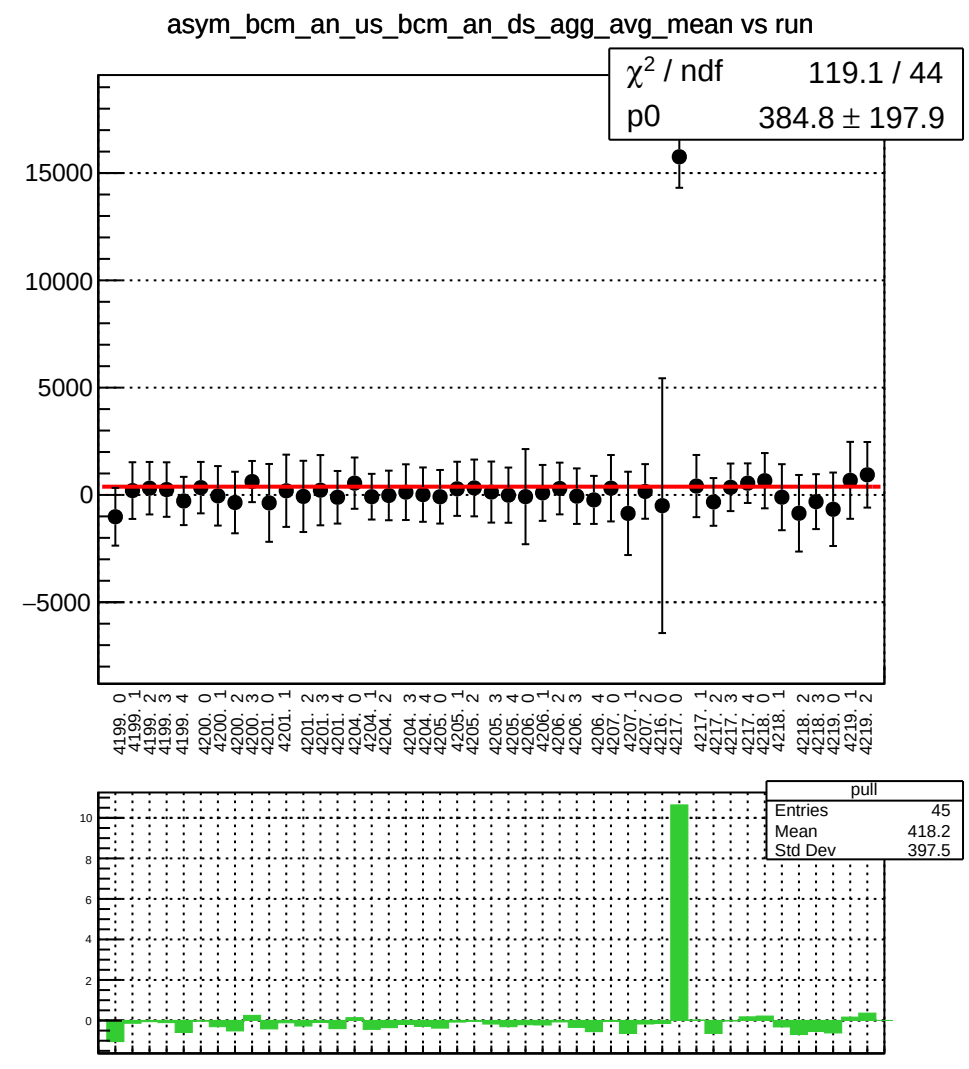

pull1D
Entries 45
Mean 0.02478
Std Dev 0.9835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

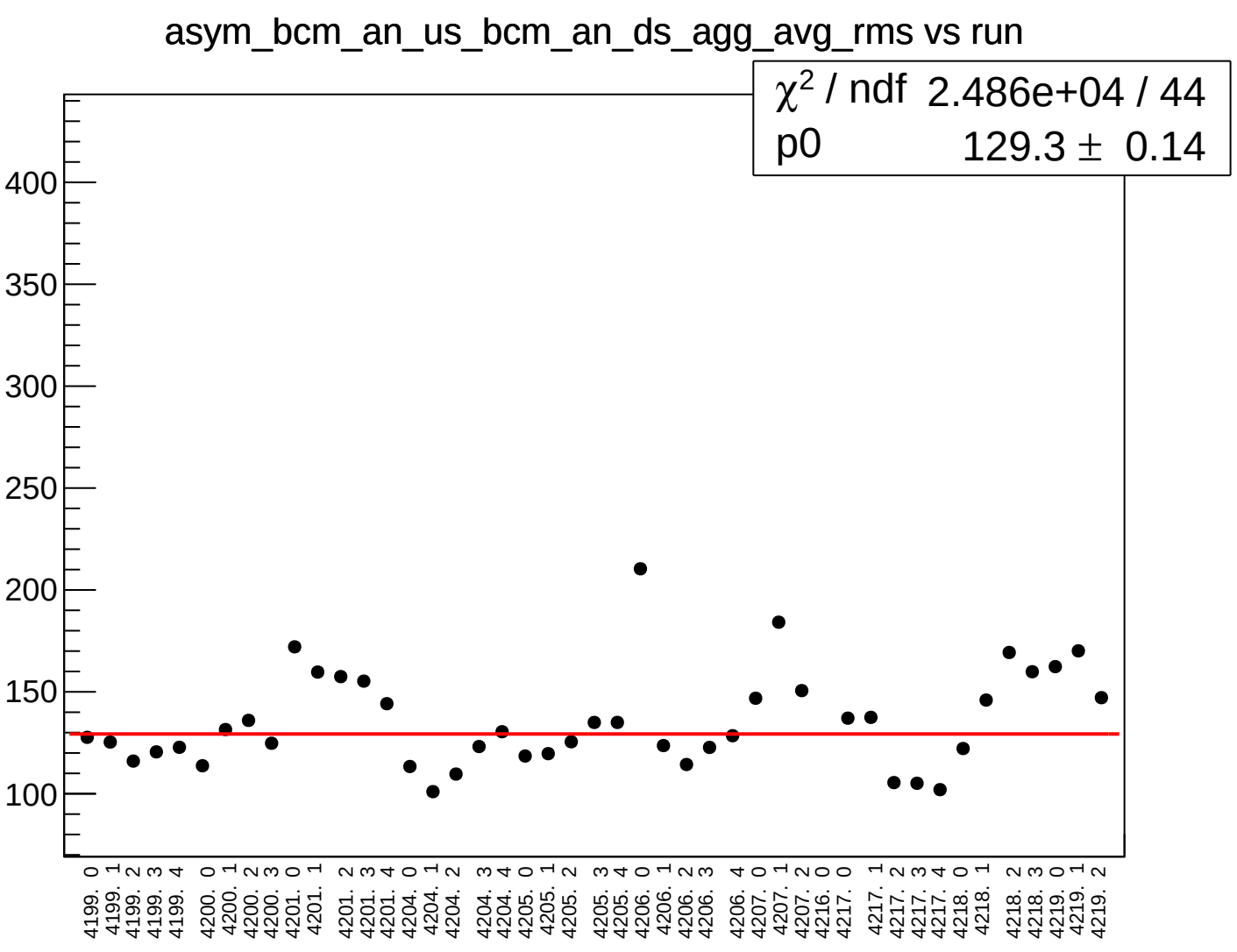

diff_bpm0l01X_rms vs run
χ² / ndf 3.028e+04 / 44
p0 7627 ± 8.281
12000
11000
10000
9000
8000
7000
6000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

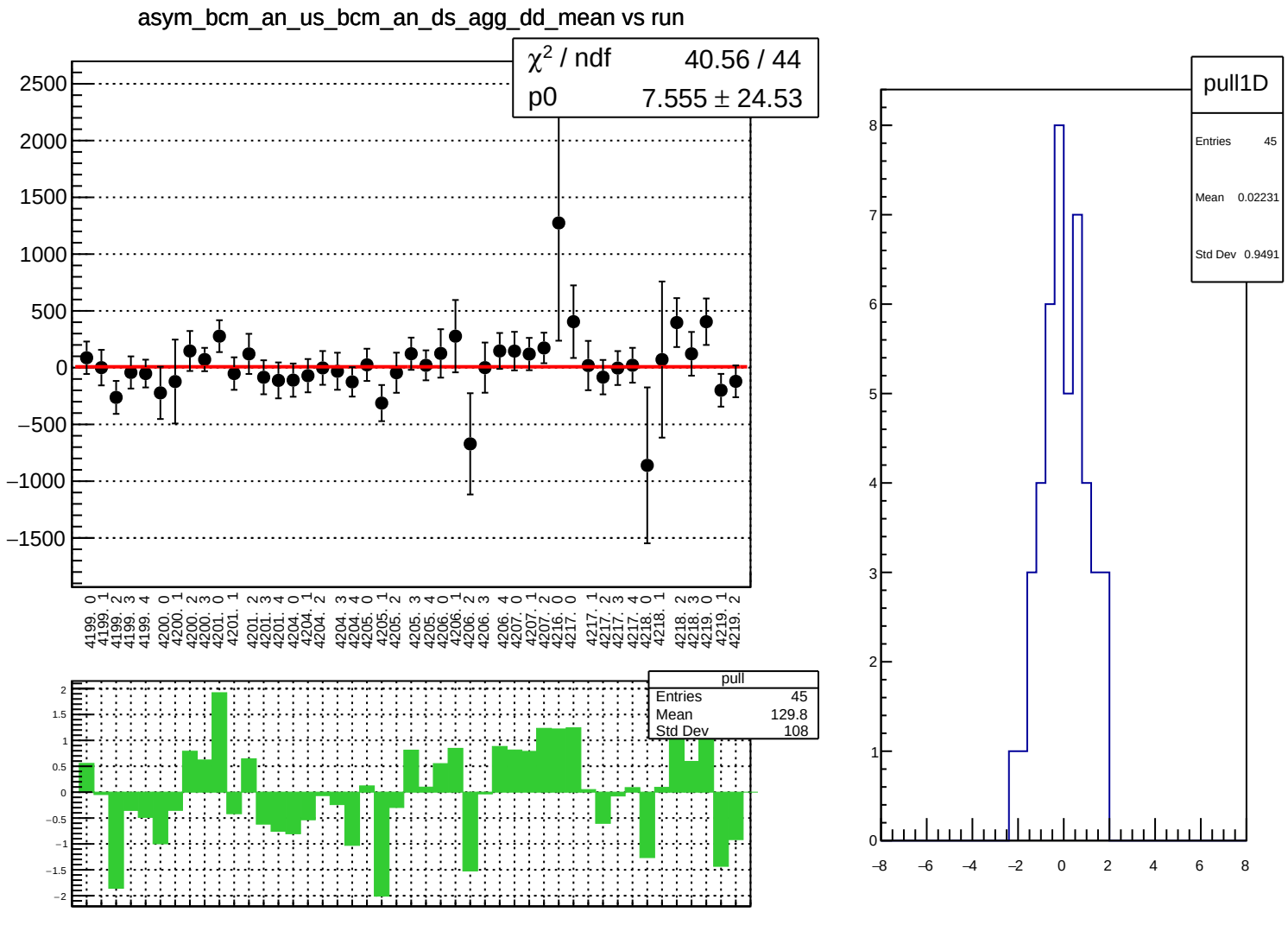

diff_bpm0l01Y_mean vs run
χ² / ndf 54.29 / 44
p0 26.28 ± 6.255
pull
Entries 45
Mean −48.42
Std Dev 52.28

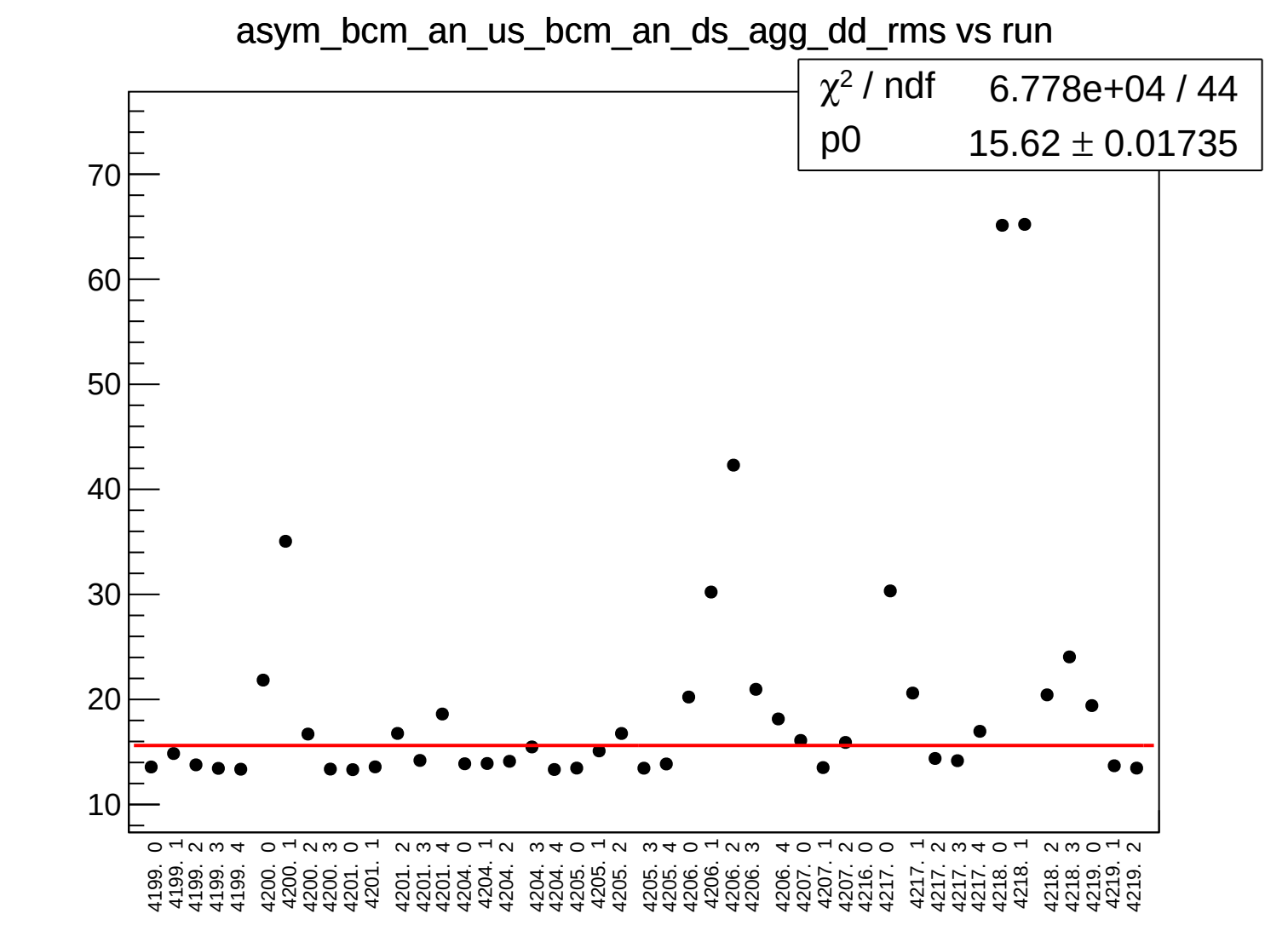

pull1D
Entries 45
Mean −0.01272
Std Dev 1.098

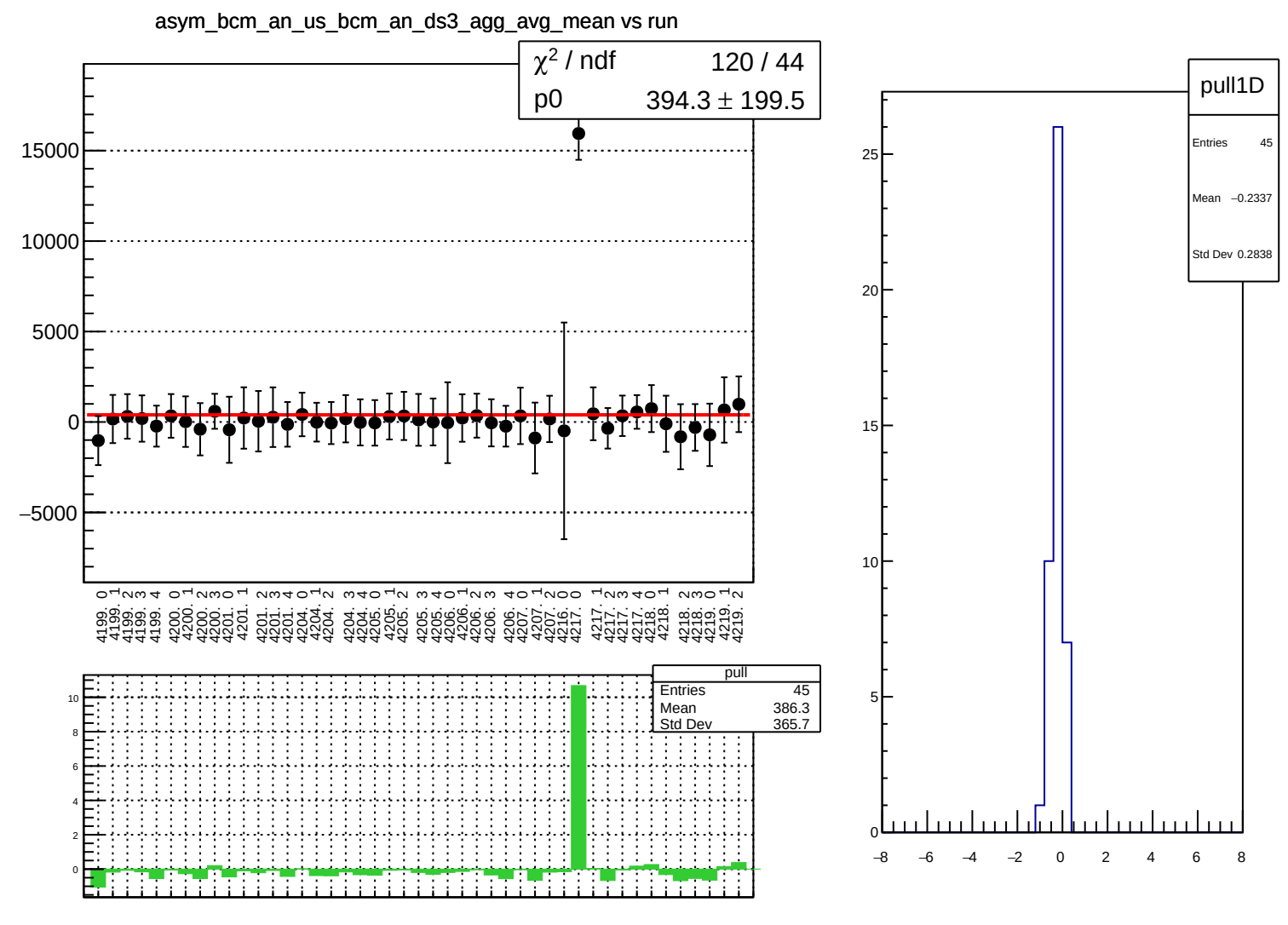

diff_bpm0l01Y_rms vs run
χ² / ndf 1.621e+04 / 44
p0 4108 ± 4.423
6000
5500
5000
4500
4000
3500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

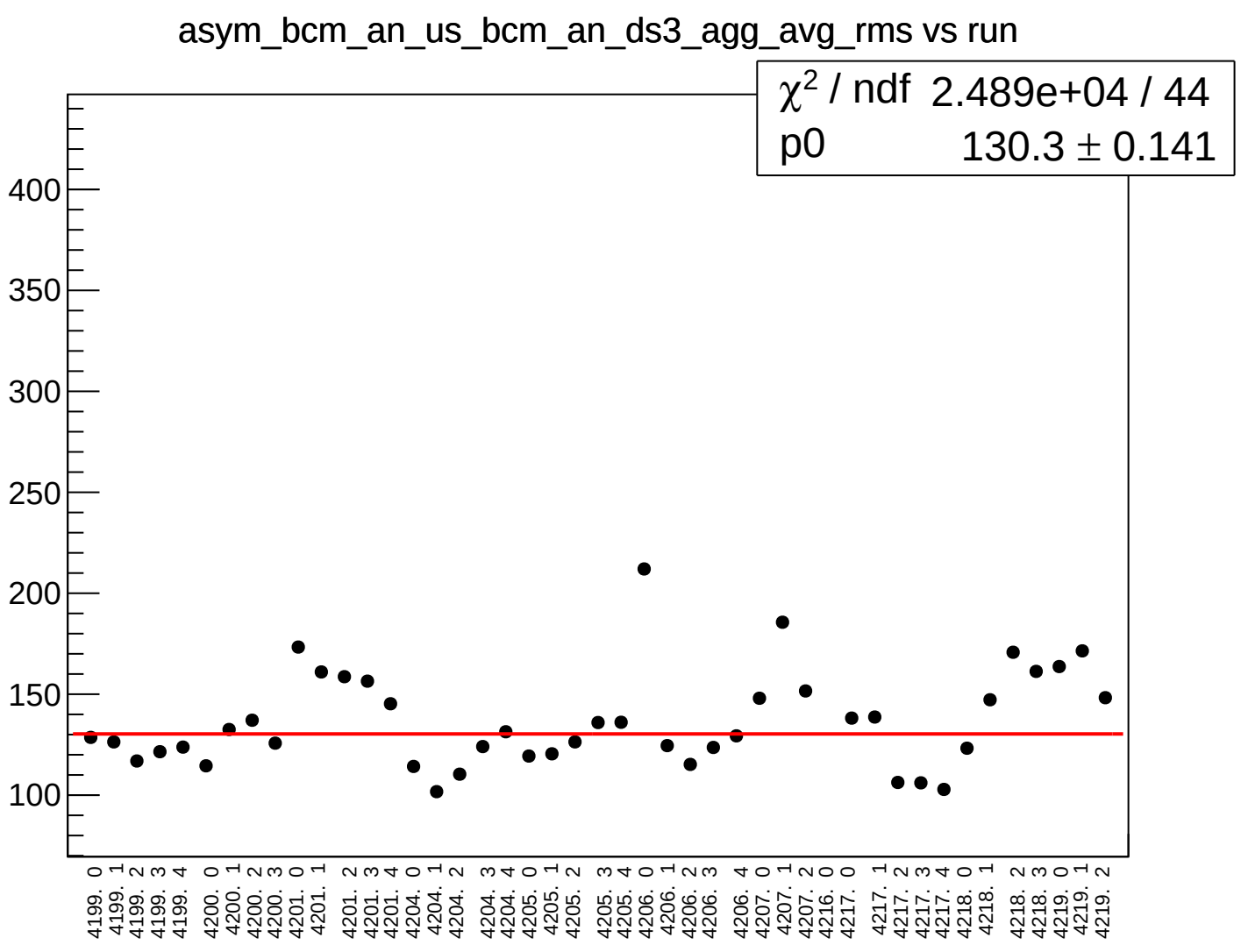

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 119.1 / 44
p0 384.8 ± 197.9
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 418.2
Std Dev 397.5
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2337
Std Dev 0.2839
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

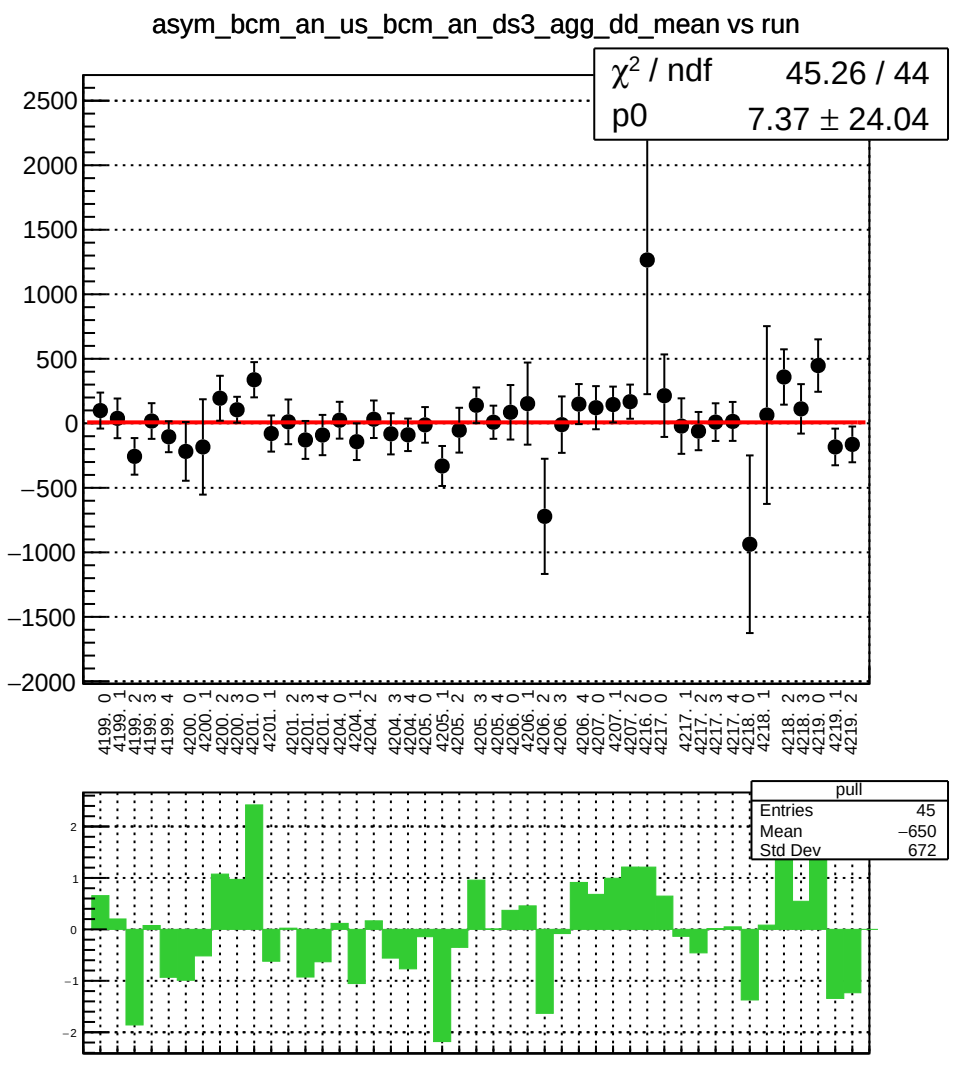

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.486e+04 / 44
p0 129.3 ± 0.14
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

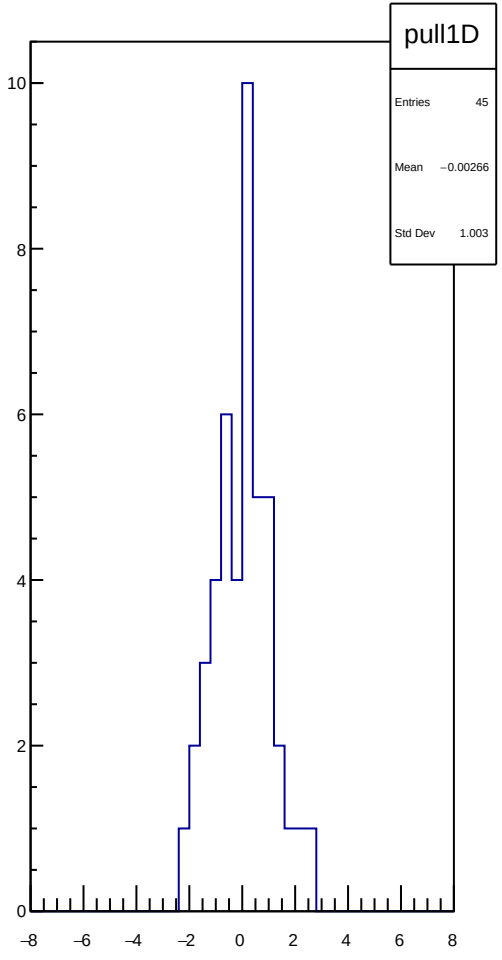

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 40.56 / 44
p0 7.555 ± 24.53
pull
Entries 45
Mean 129.8
Std Dev 108
pull1D
Entries 45
Mean 0.02231
Std Dev 0.9491

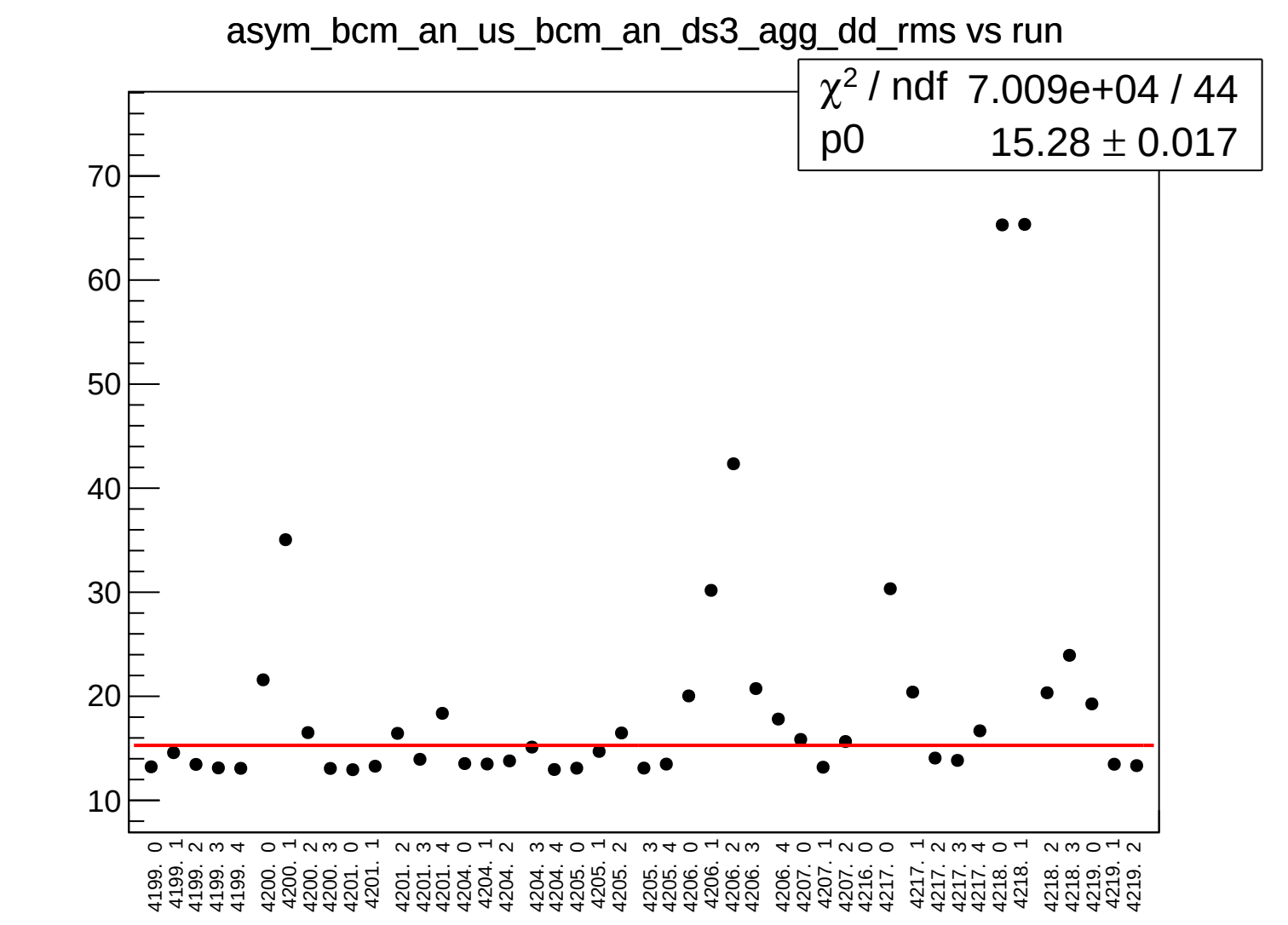

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6.778e+04 / 44
p0 15.62 ± 0.01735
70
60
50
40
30
20
10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

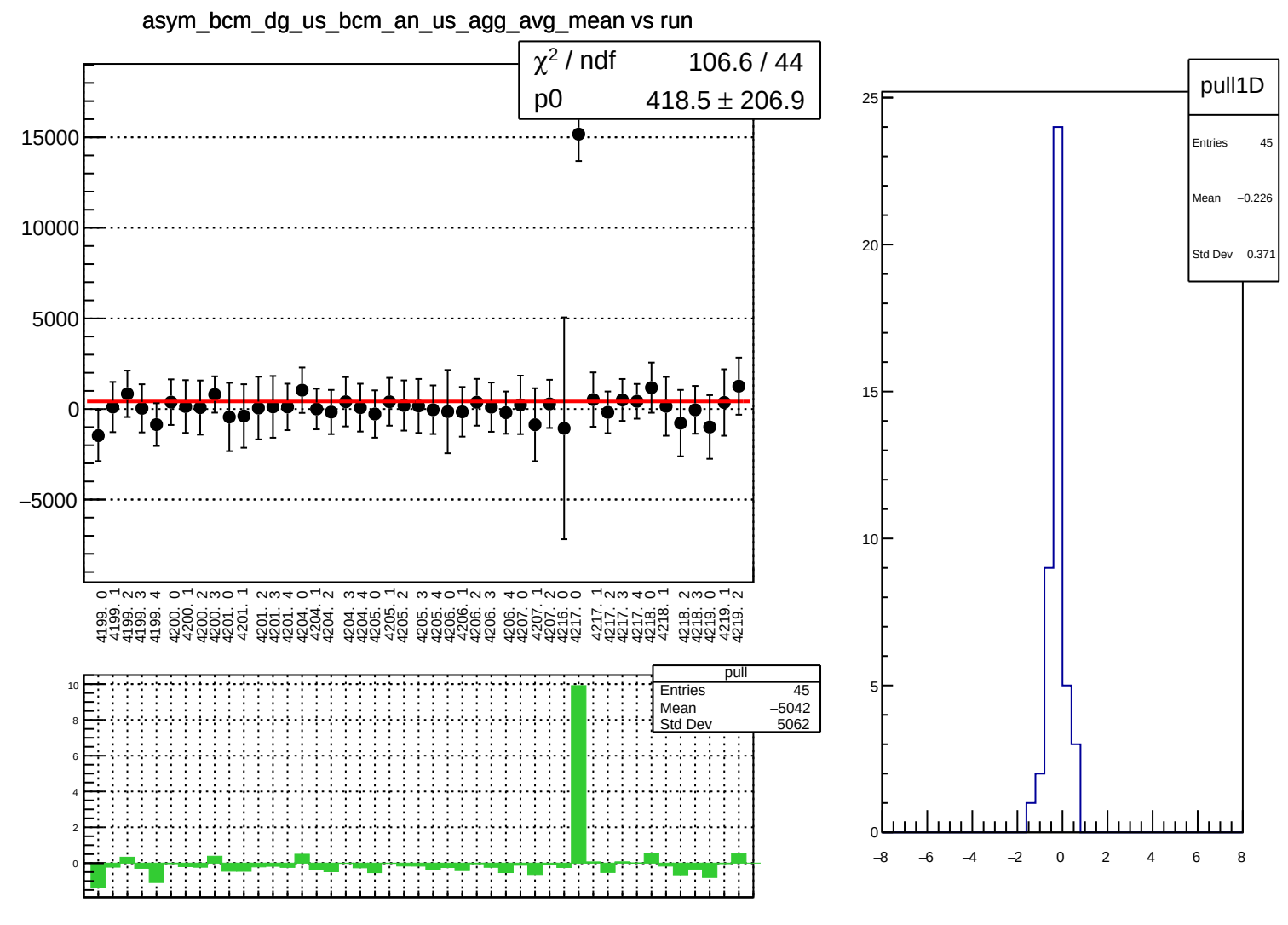

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 120 / 44
p0 394.3 ± 199.5
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 386.3
Std Dev 365.7
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2337
Std Dev 0.2838
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

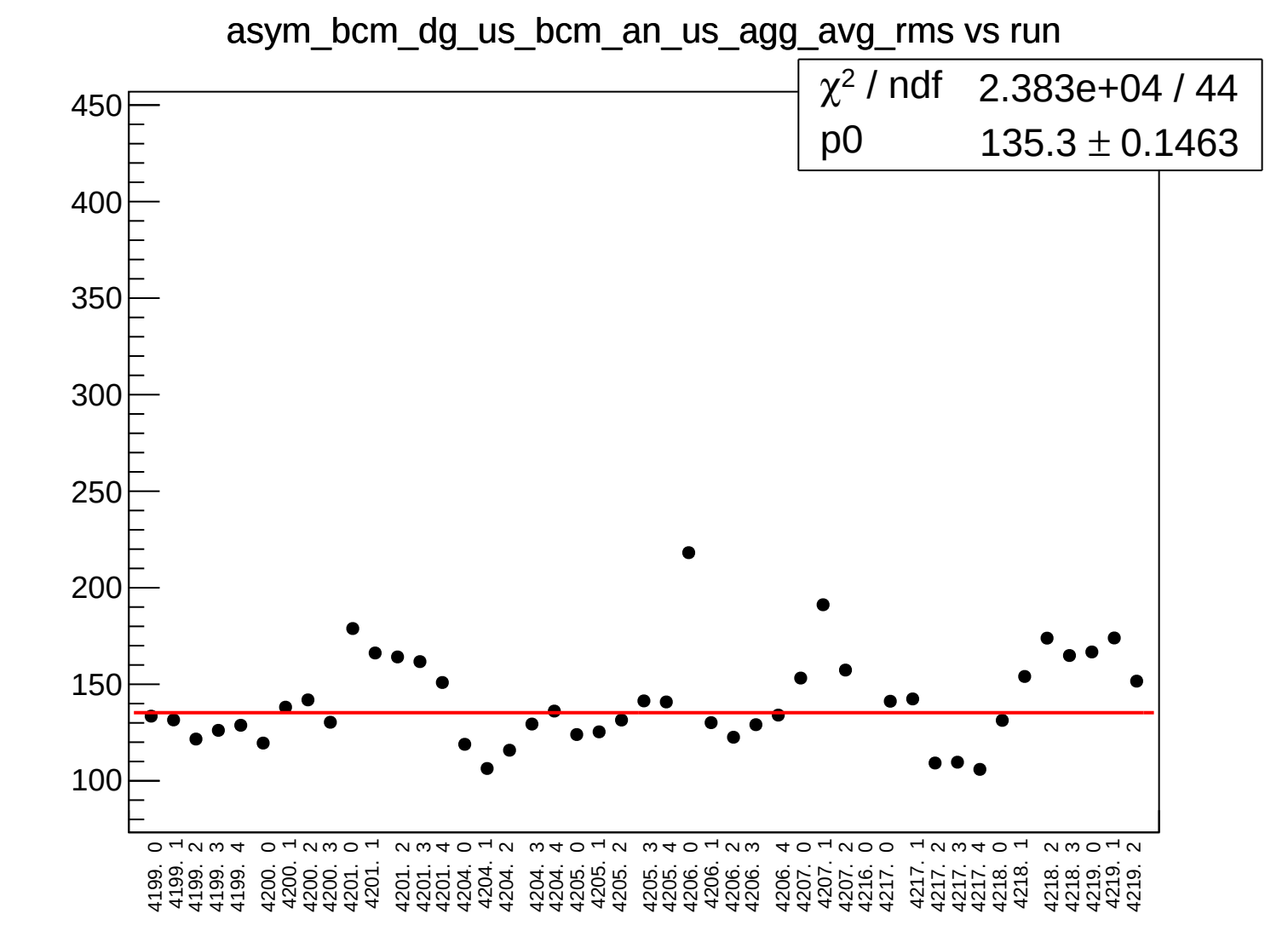

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.489e+04 / 44
p0 130.3 ± 0.141
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

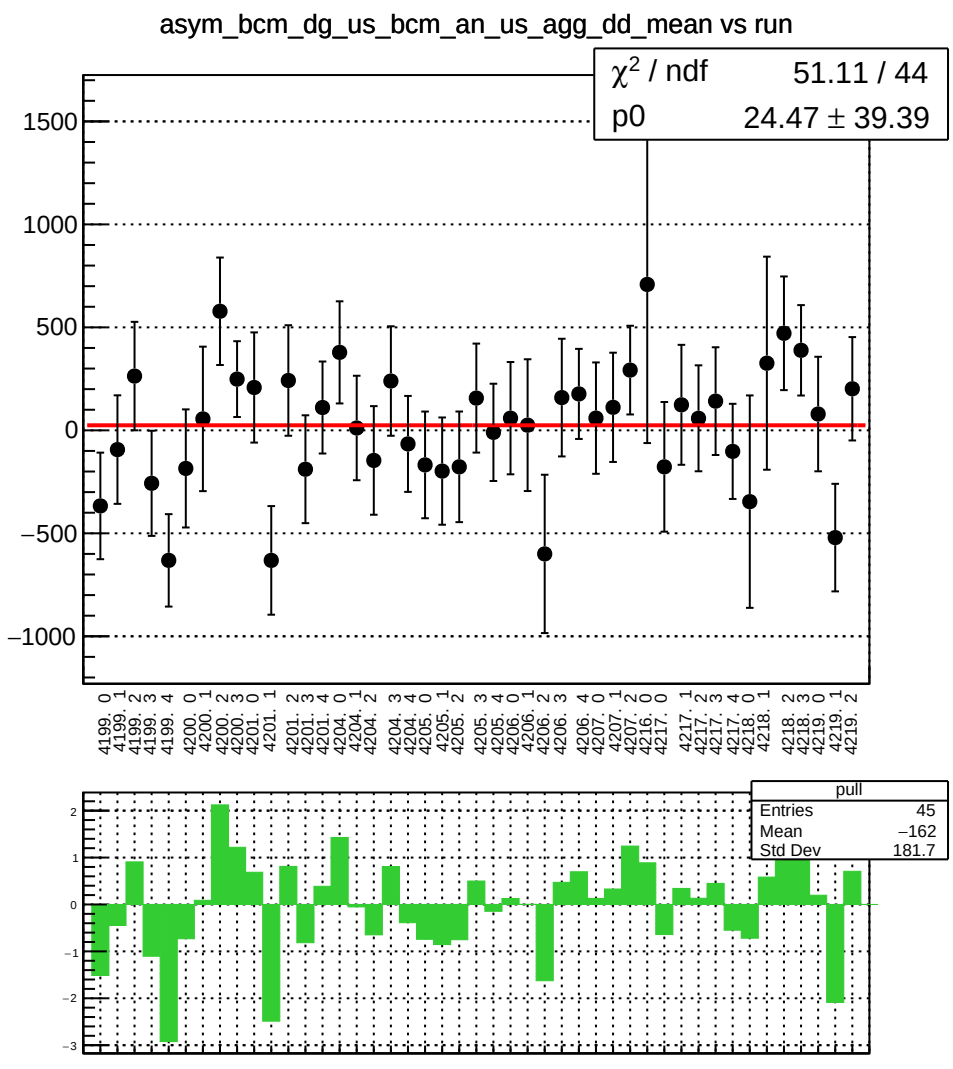

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 45.26 / 44
p0 7.37 ± 24.04
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −650
Std Dev 672
2
1
0
−1
−2

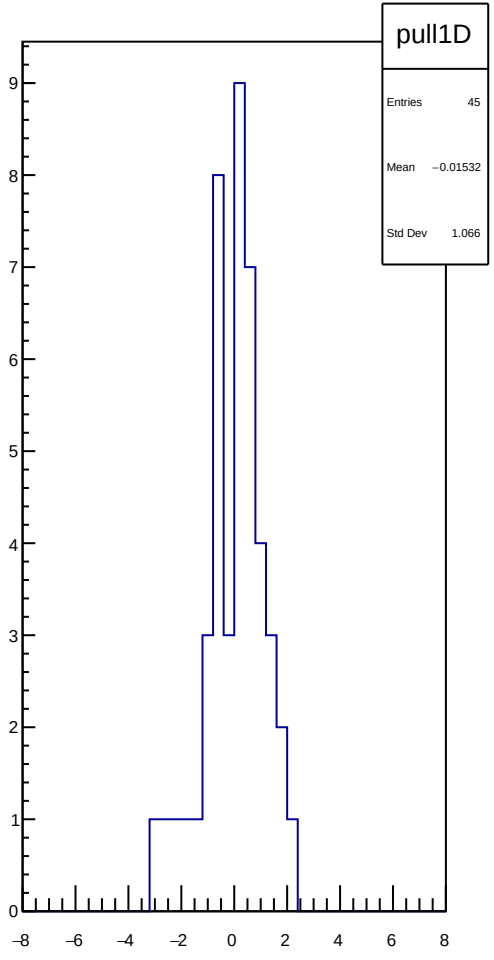

pull1D
Entries 45
Mean −0.00266
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

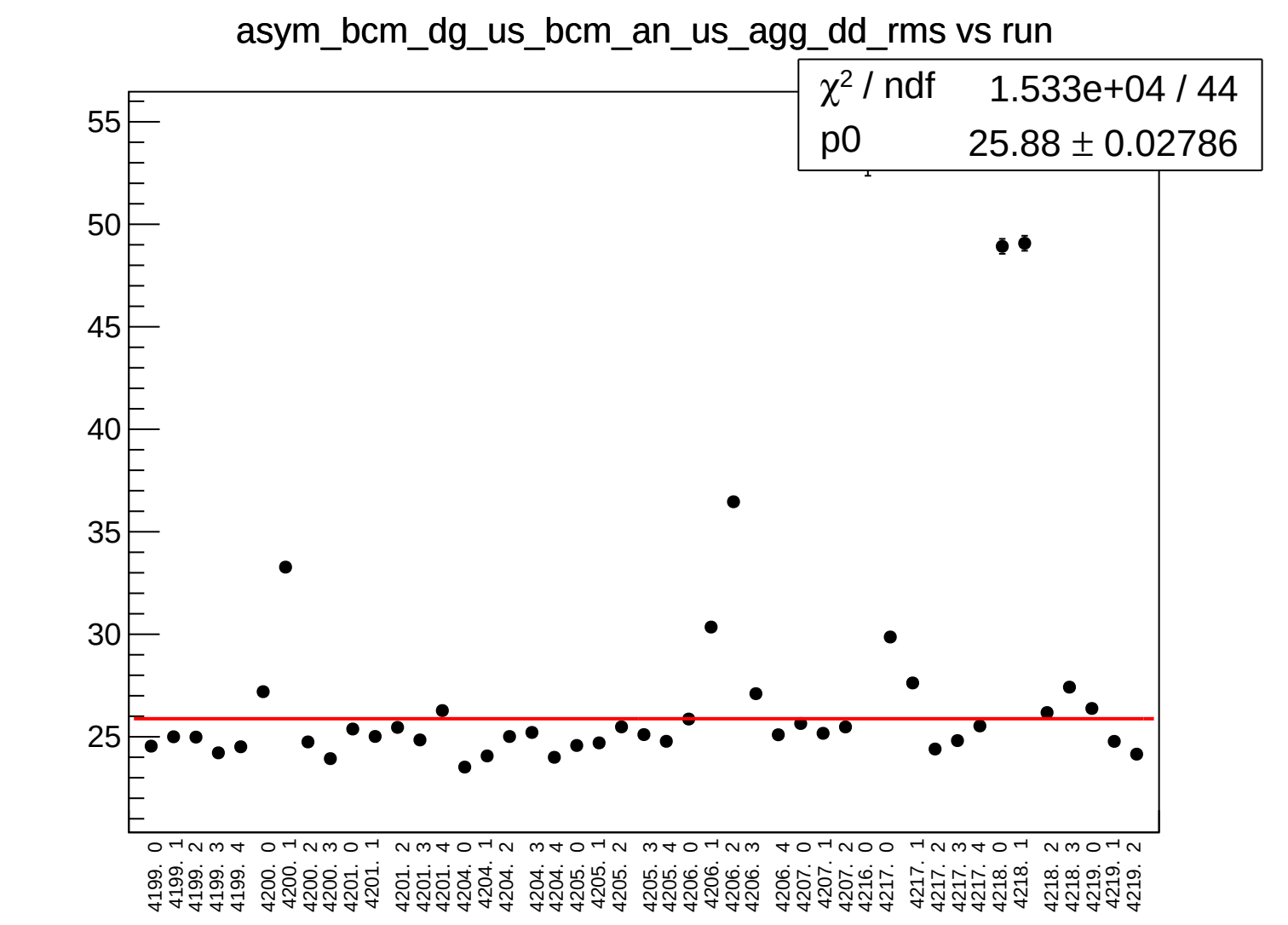

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 7.009e+04 / 44
p0 15.28 ± 0.017
70
60
50
40
30
20
10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

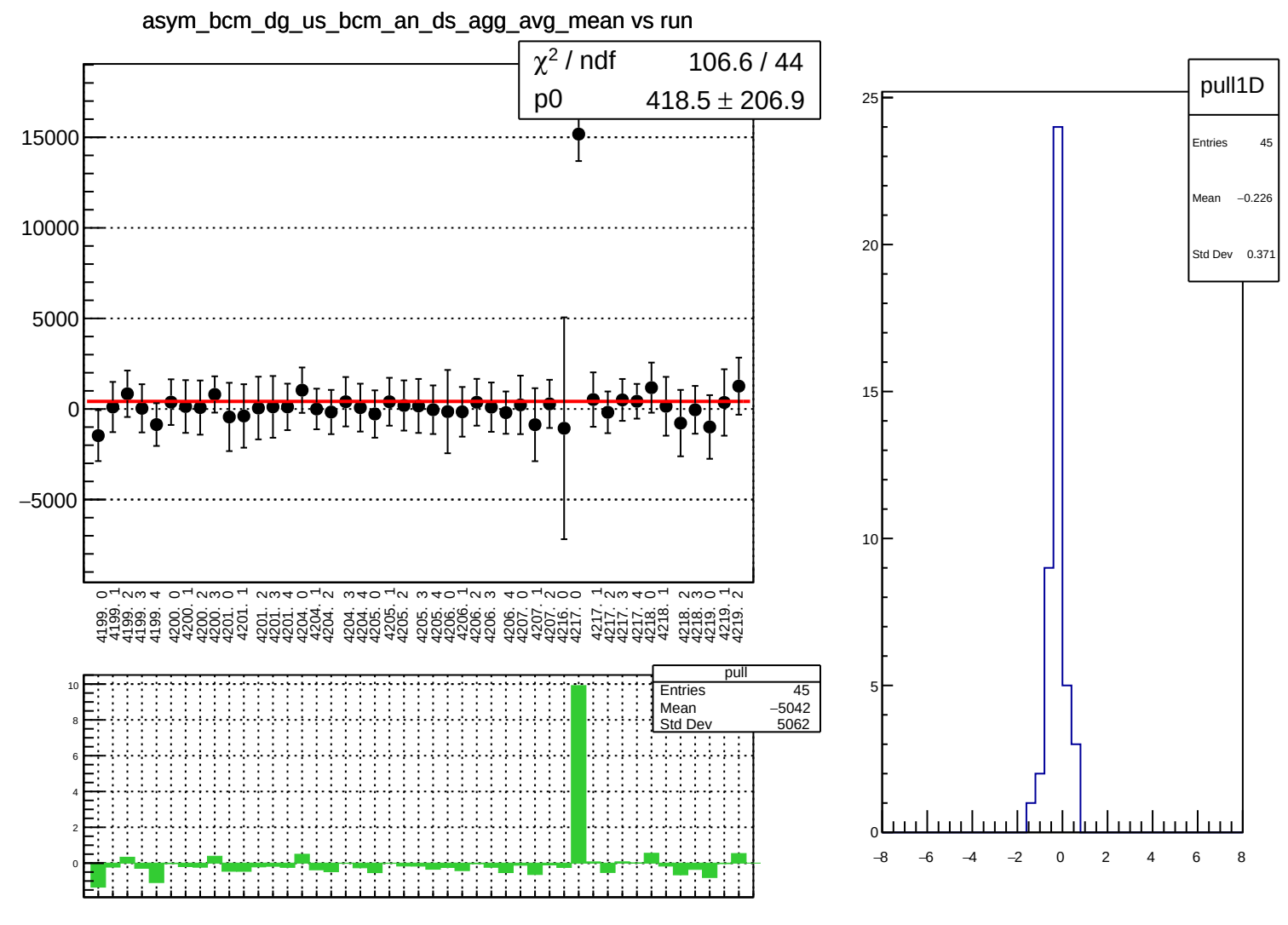

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 106.6 / 44
p0 418.5 ± 206.9
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −5042
Std Dev 5062
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.226
Std Dev 0.371
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

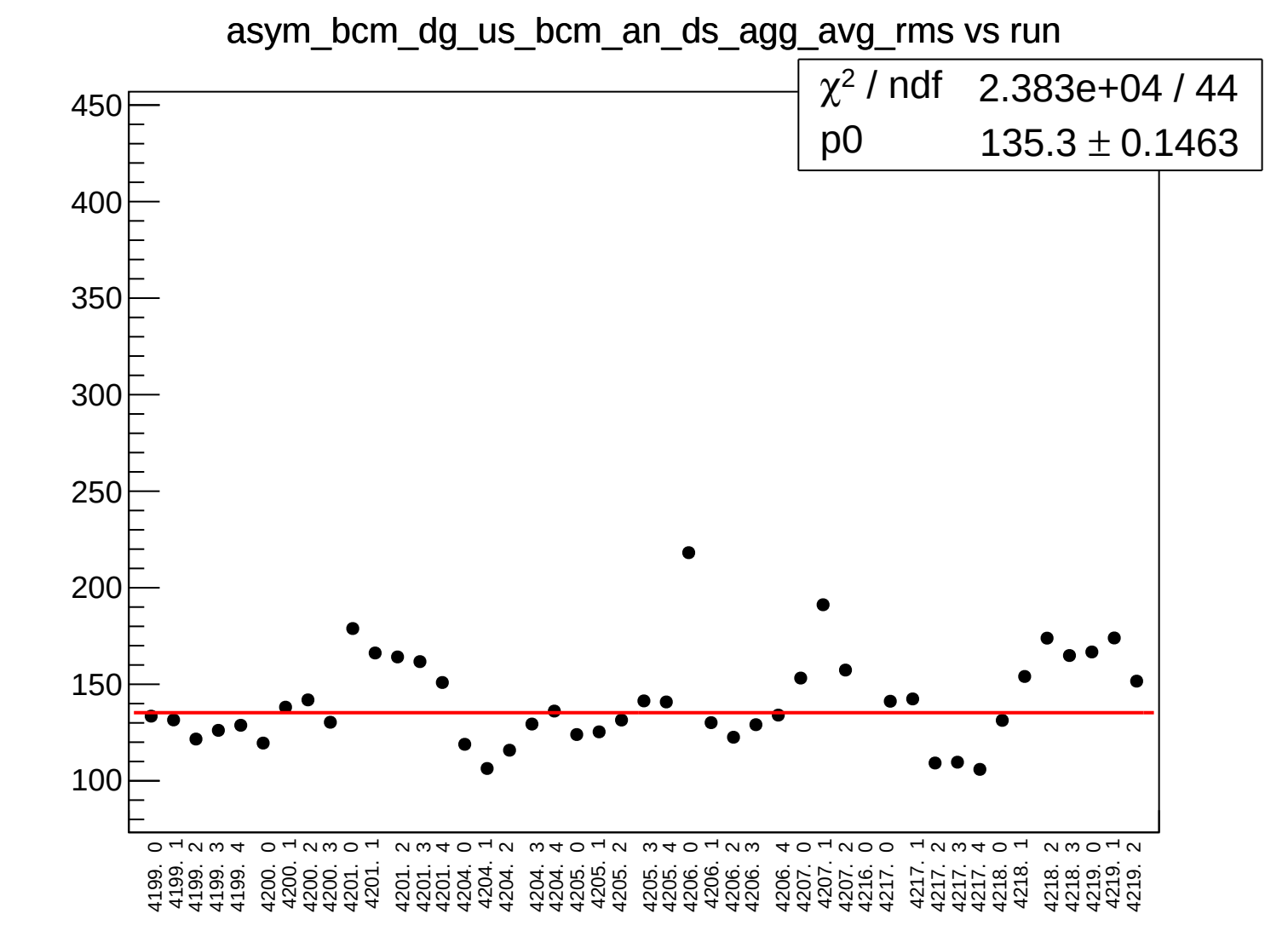

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.383e+04 / 44
p0 135.3 ± 0.1463
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

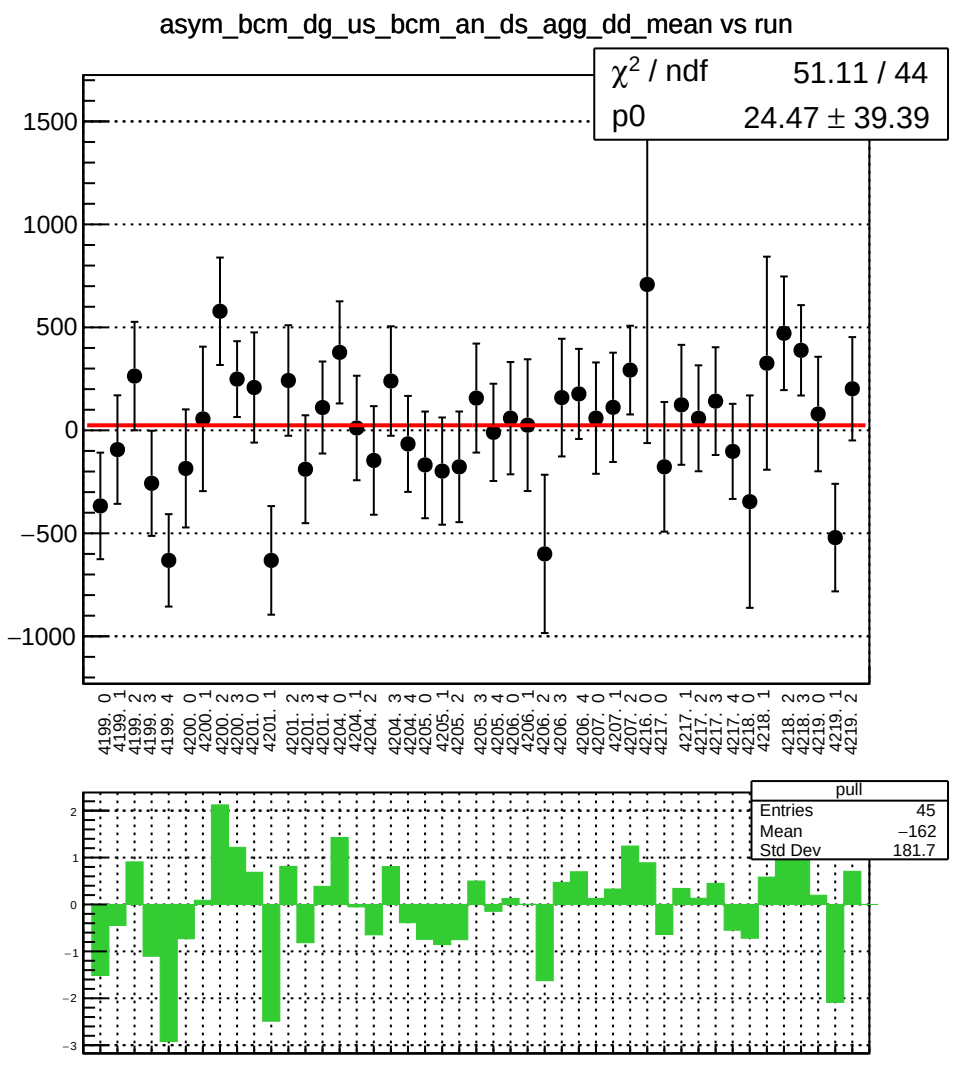

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 51.11 / 44
p0 24.47 ± 39.39
1500
1000
500
0
−500
−1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −162
Std Dev 181.7
2
1
0
−1
−2
−3

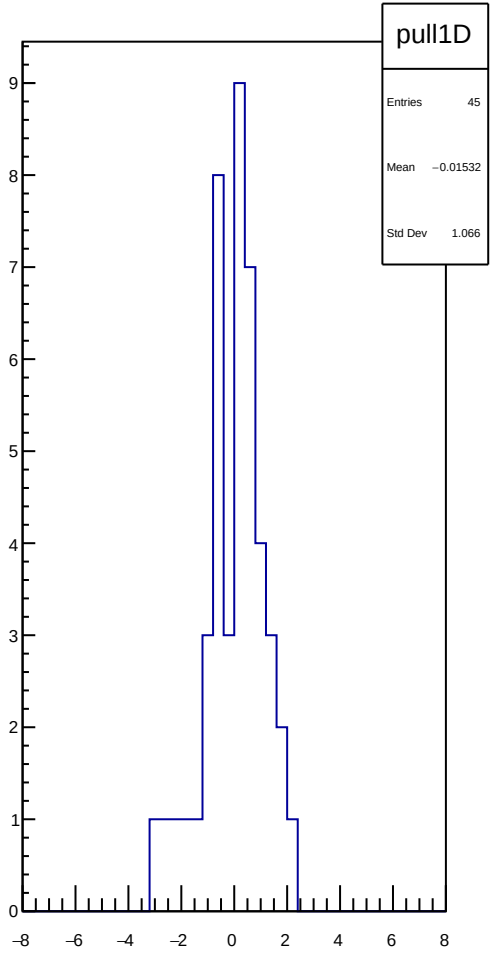

pull1D
Entries 45
Mean −0.01532
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

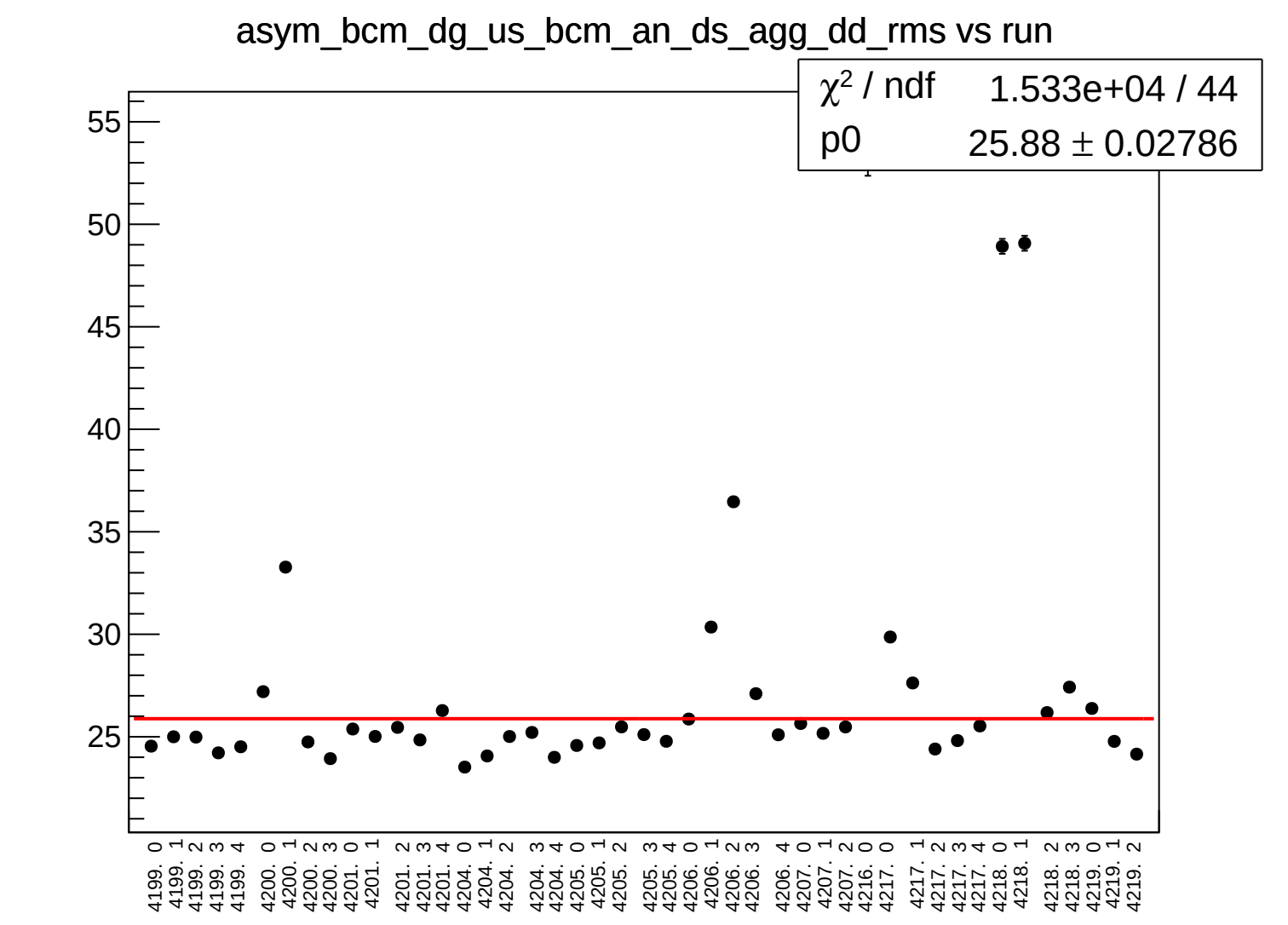

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.533e+04 / 44
p0 25.88 ± 0.02786
55
50
45
40
35
30
25
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

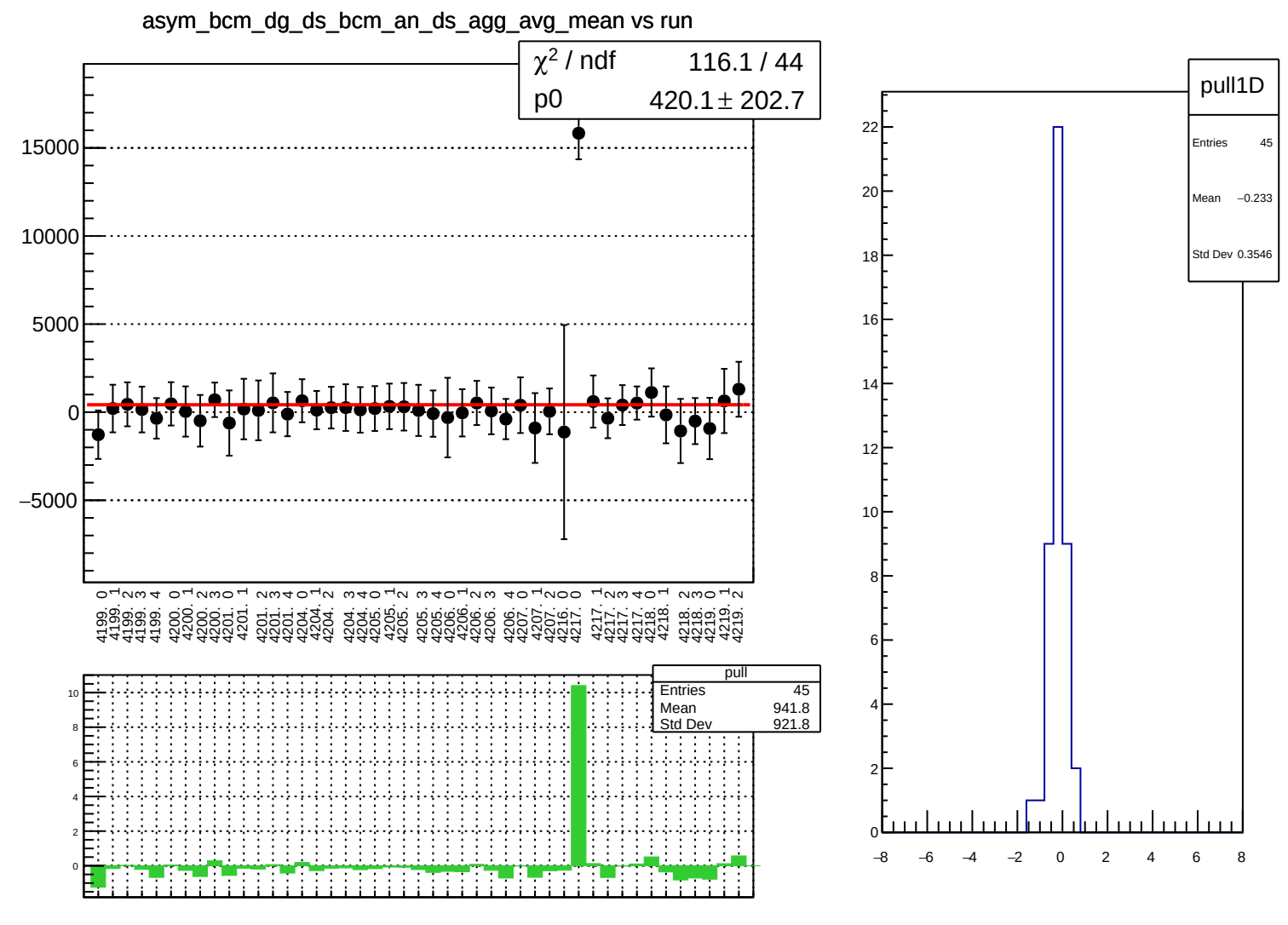

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 106.6 / 44
p0 418.5 ± 206.9
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −5042
Std Dev 5062
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.226
Std Dev 0.371
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

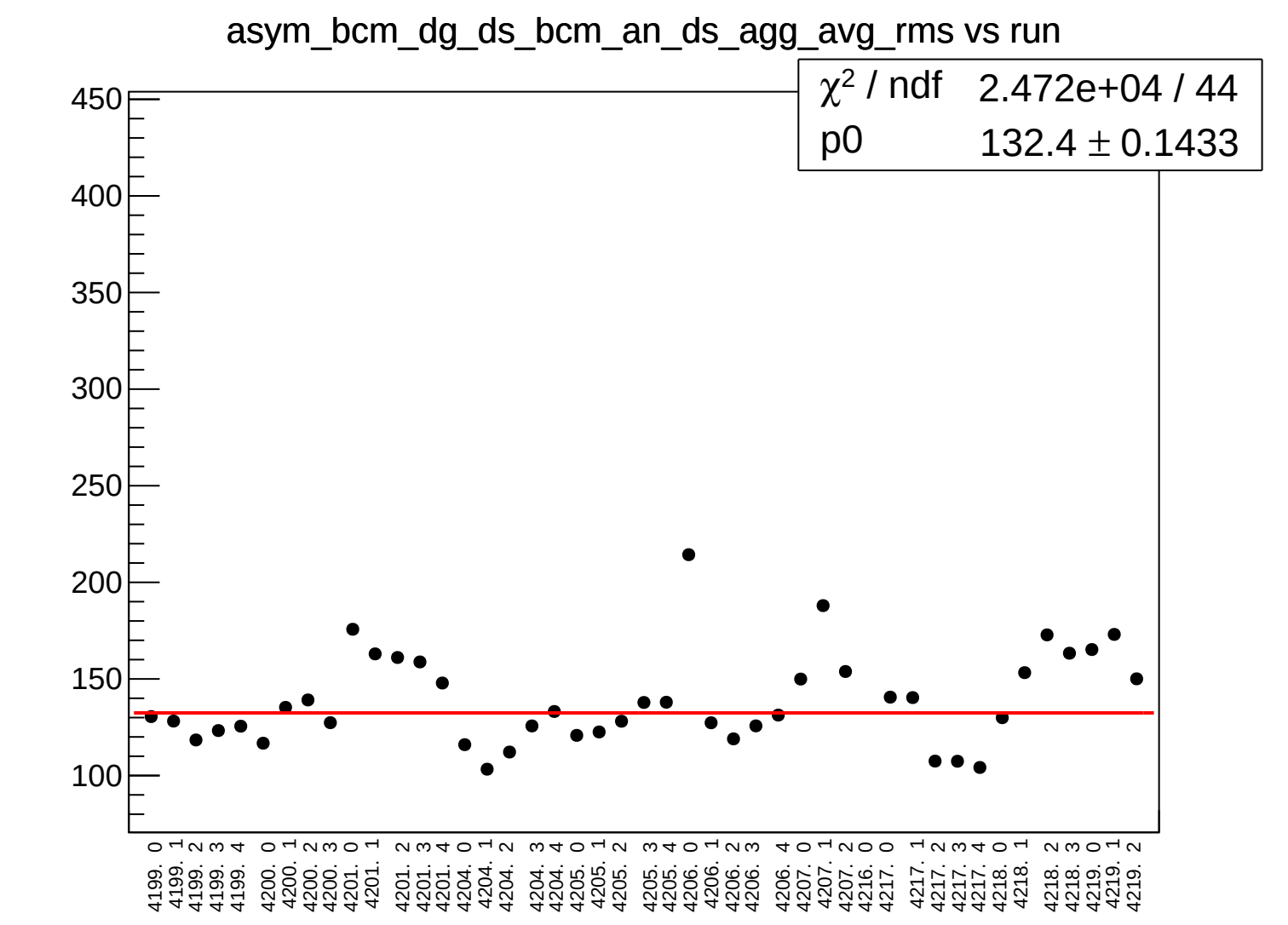

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.383e+04 / 44
p0 135.3 ± 0.1463
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

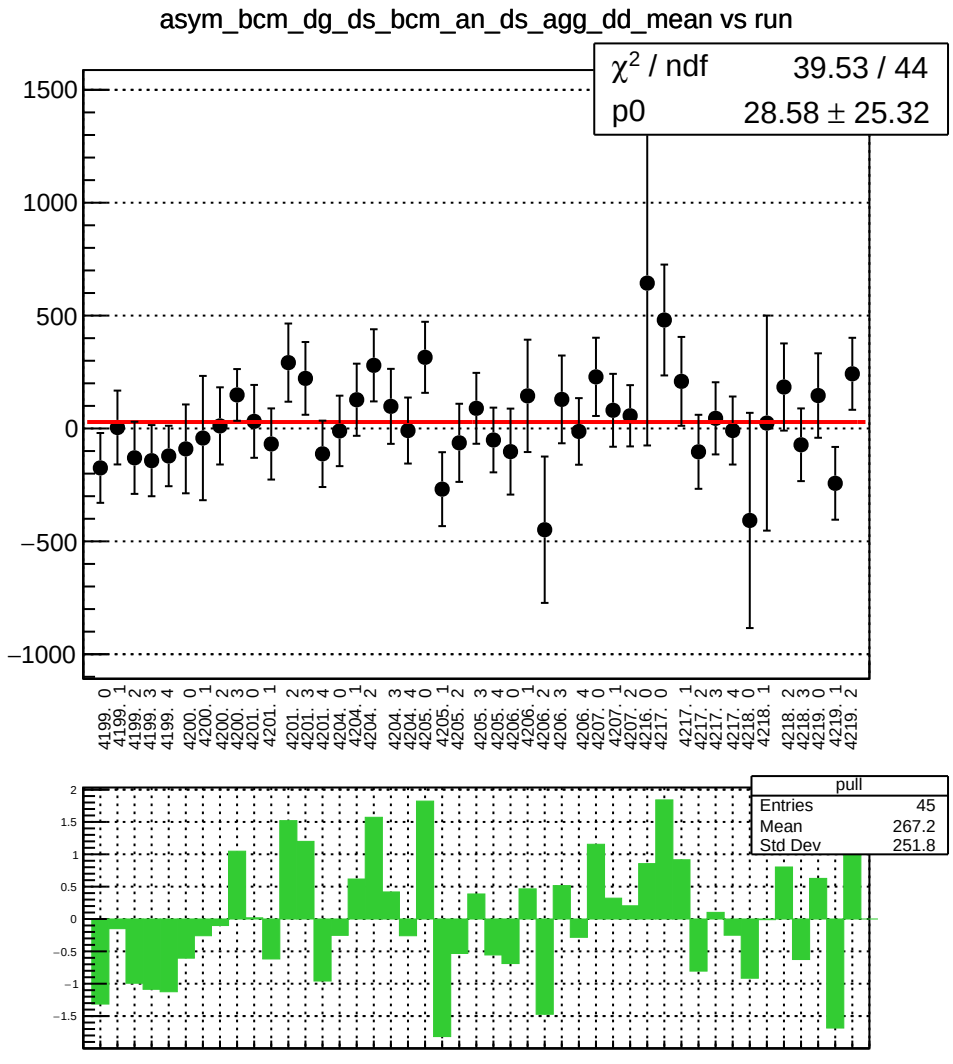

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 51.11 / 44
p0 24.47 ± 39.39
1500
1000
500
0
−500
−1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −162
Std Dev 181.7
2
1
0
−1
−2
−3

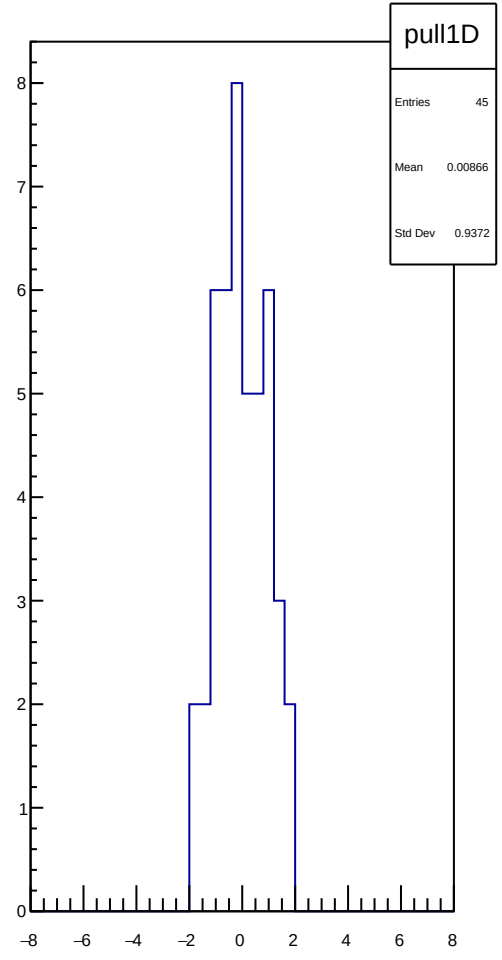

pull1D
Entries 45
Mean −0.01532
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

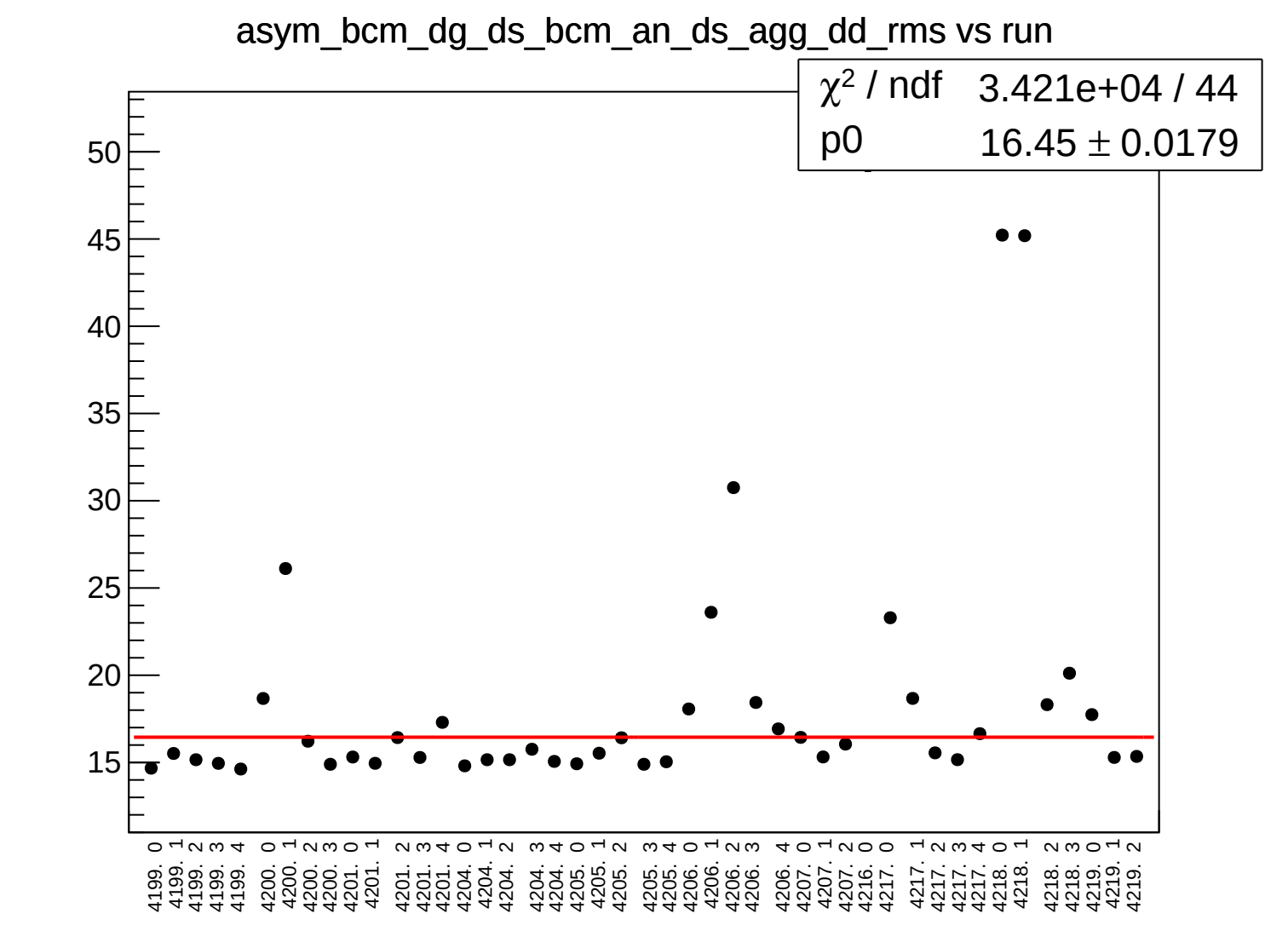

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.533e+04 / 44
p0 25.88 ± 0.02786
55
50
45
40
35
30
25
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

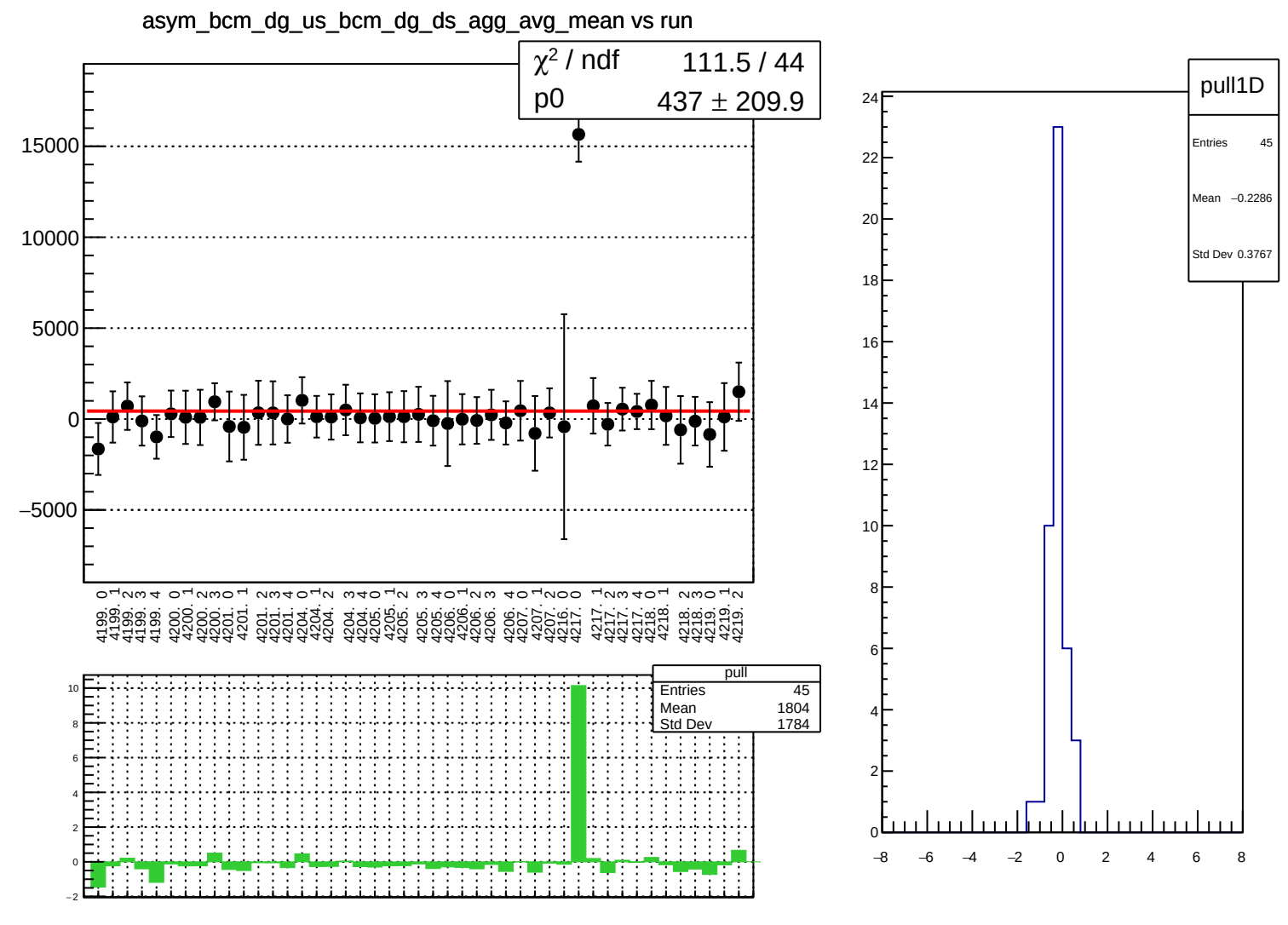

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 116.1 / 44
p0 420.1 ± 202.7
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 941.8
Std Dev 921.8
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.233
Std Dev 0.3546
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

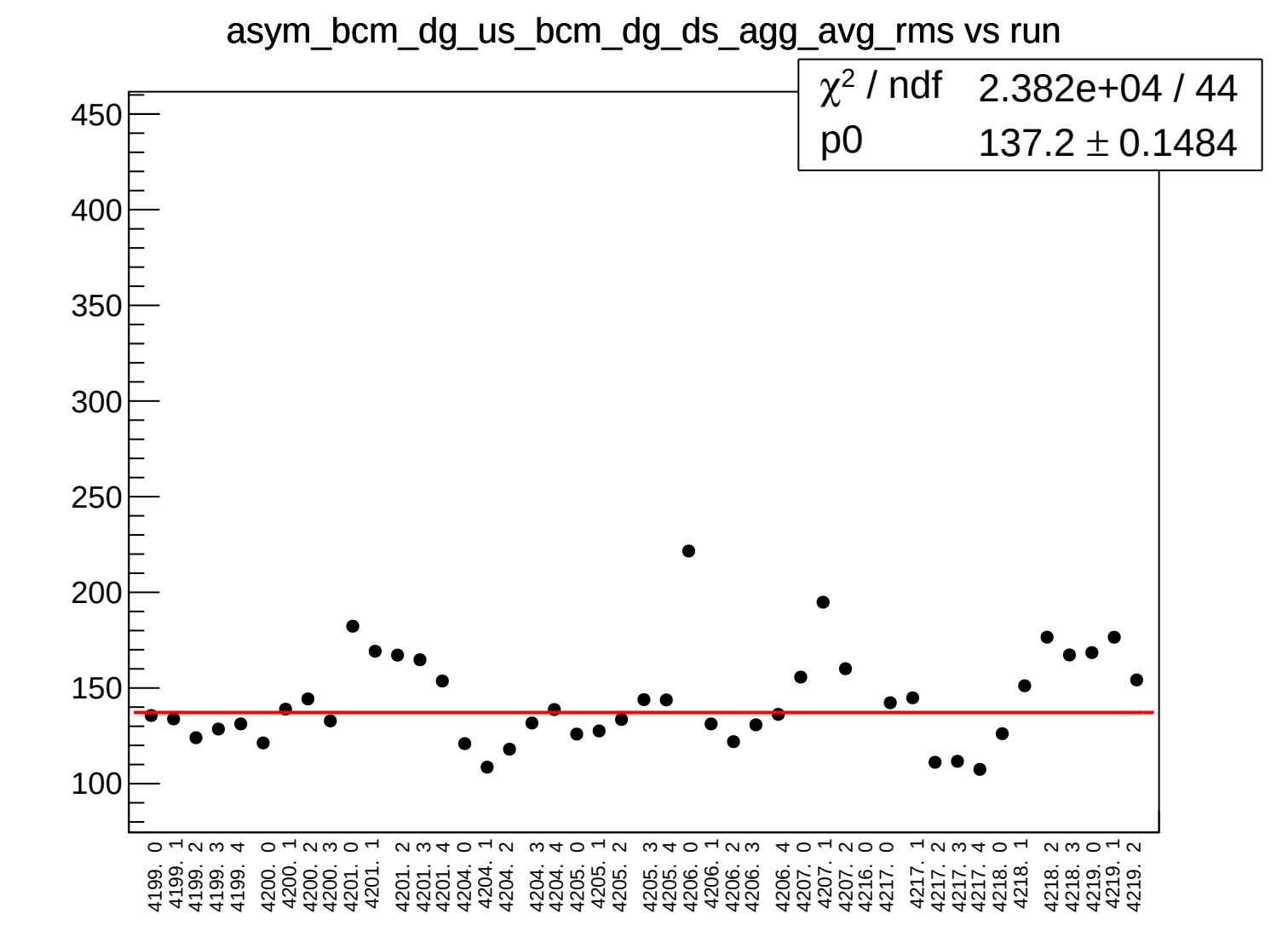

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.472e+04 / 44
p0 132.4 ± 0.1433
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

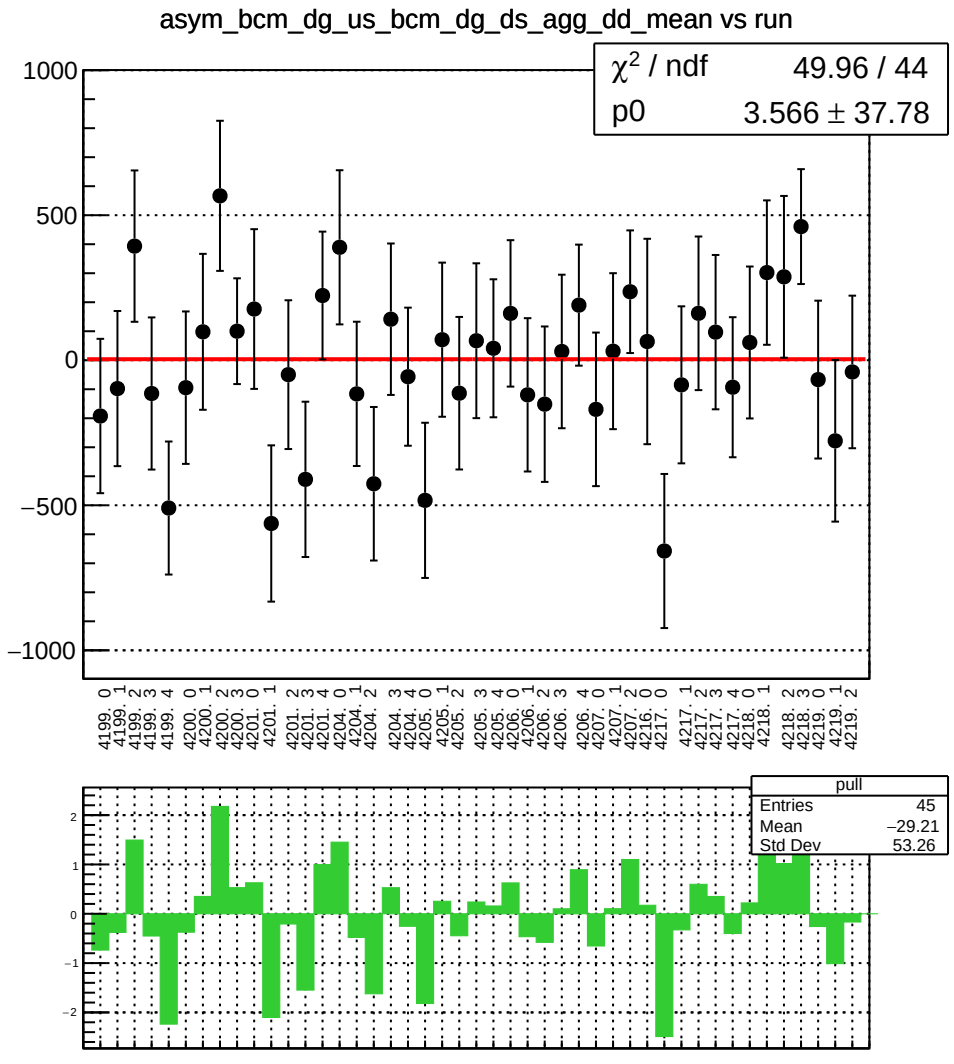

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 39.53 / 44
p0 28.58 ± 25.32
1500
1000
500
0
−500
−1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 267.2
Std Dev 251.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

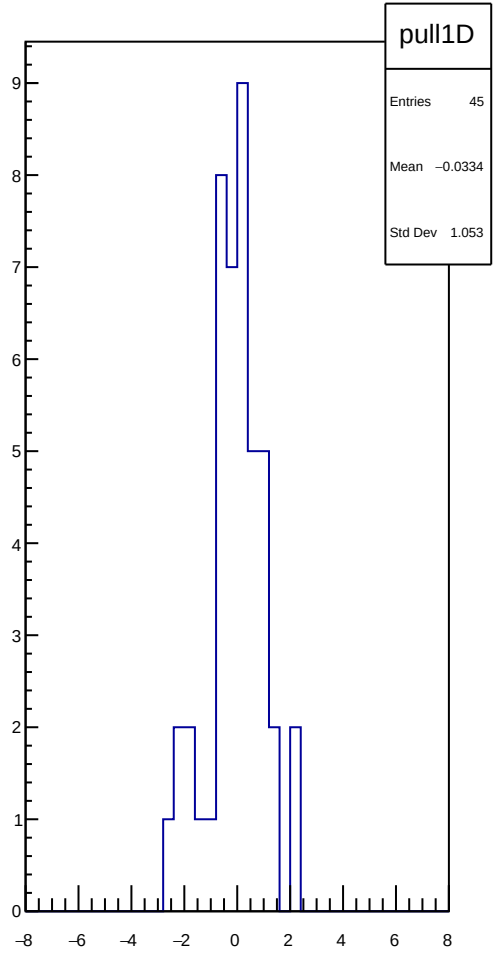

pull1D
Entries 45
Mean 0.00866
Std Dev 0.9372
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

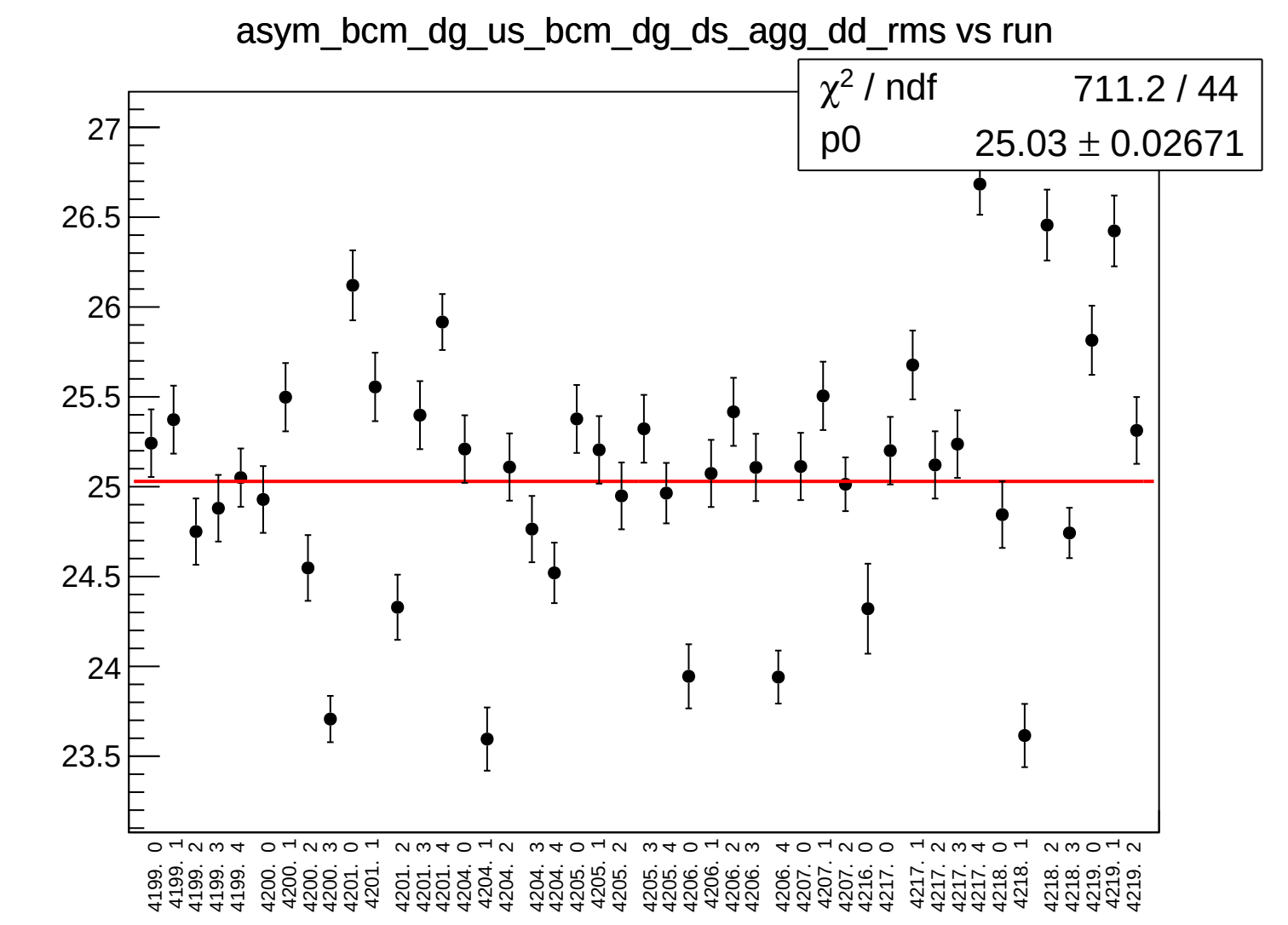

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.421e+04 / 44
p0 16.45 ± 0.0179
50
45
40
35
30
25
20
15
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

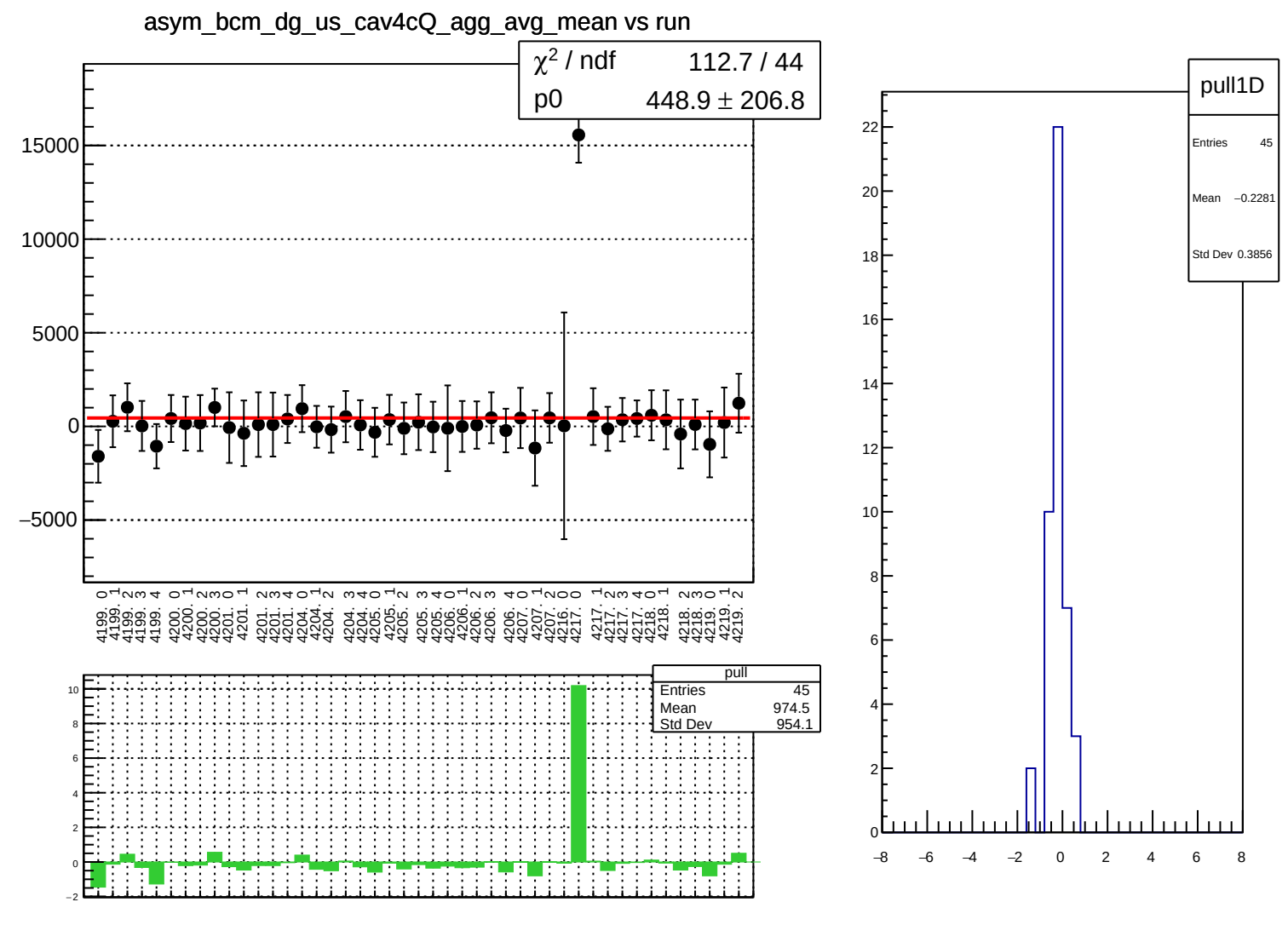

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 111.5 / 44
p0 437 ± 209.9
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 1804
Std Dev 1784
10
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.2286
Std Dev 0.3767
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

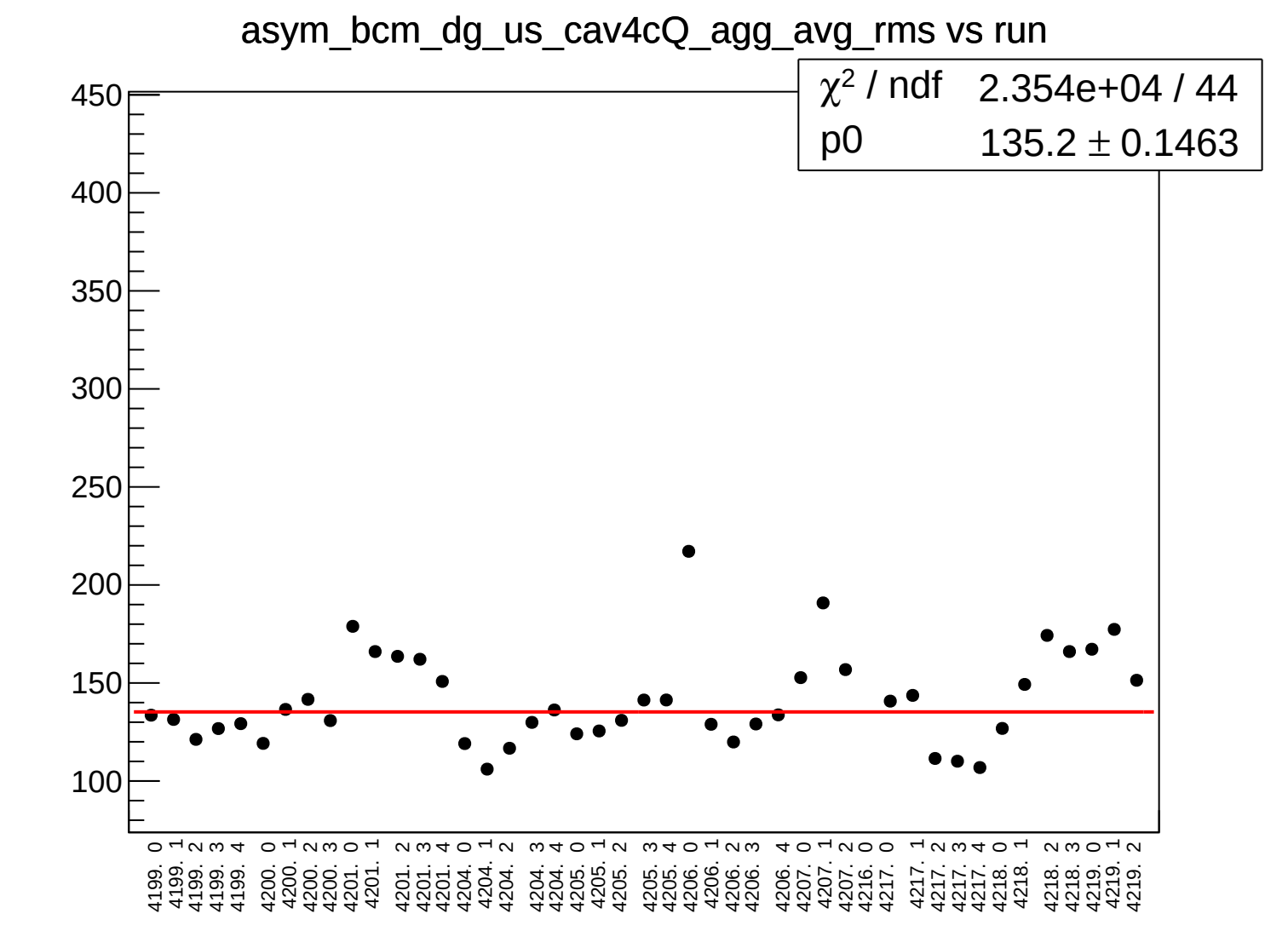

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.382e+04 / 44
p0 137.2 ± 0.1484
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

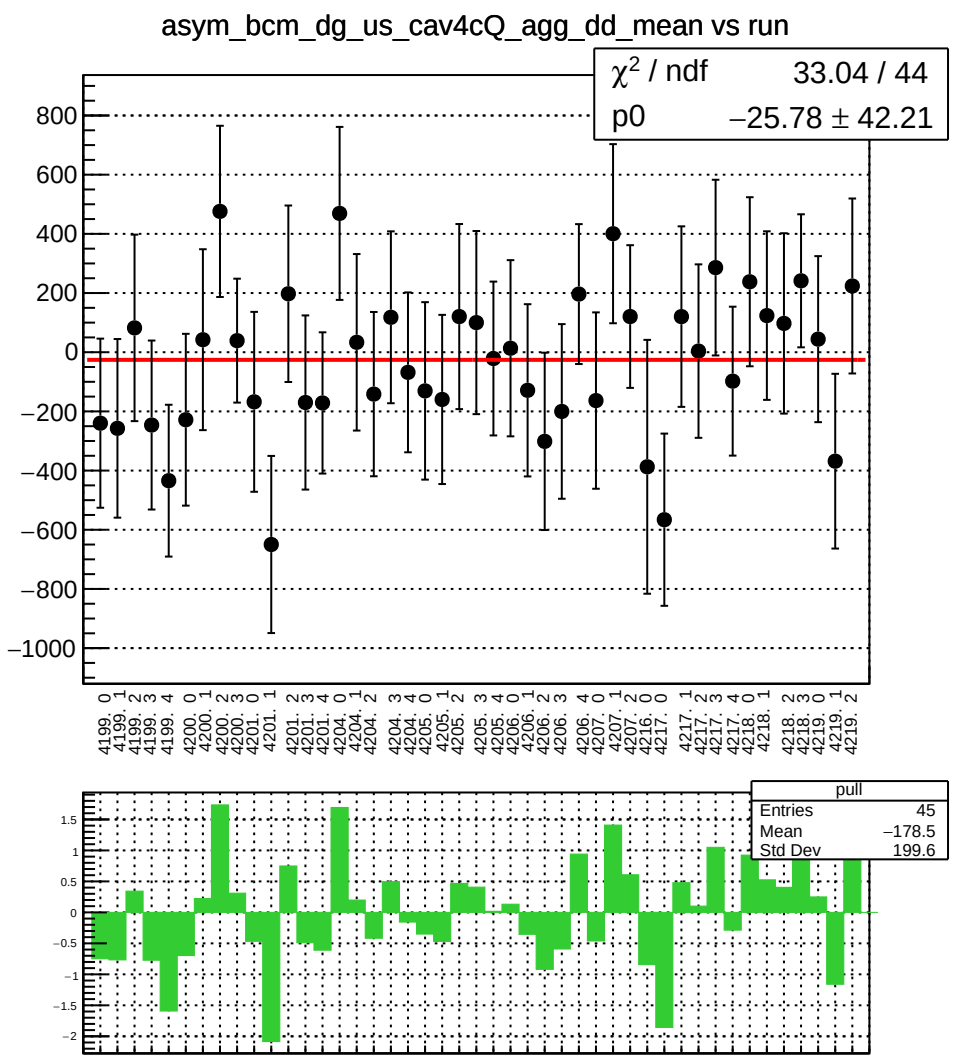

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 49.96 / 44
p0 3.566 ± 37.78
1000
500
0
−500
−1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −29.21
Std Dev 53.26
2
1
0
−1
−2

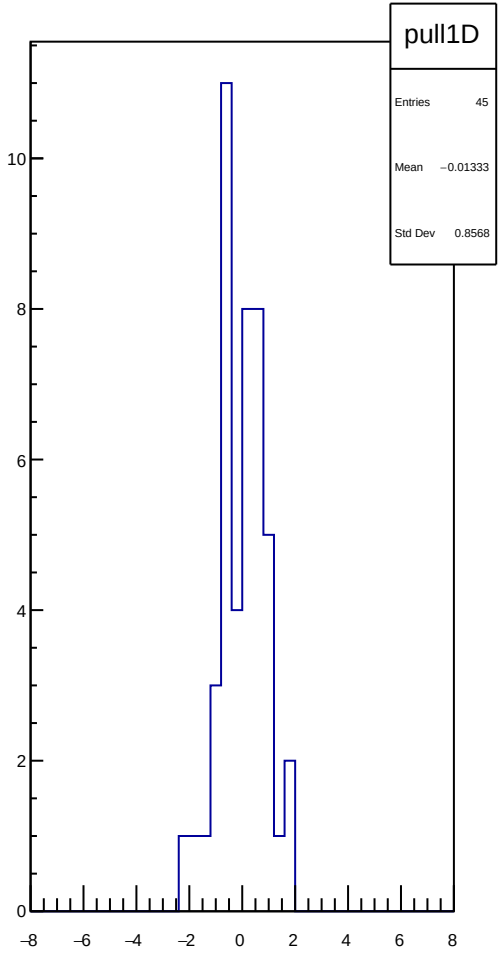

pull1D
Entries 45
Mean −0.0334
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

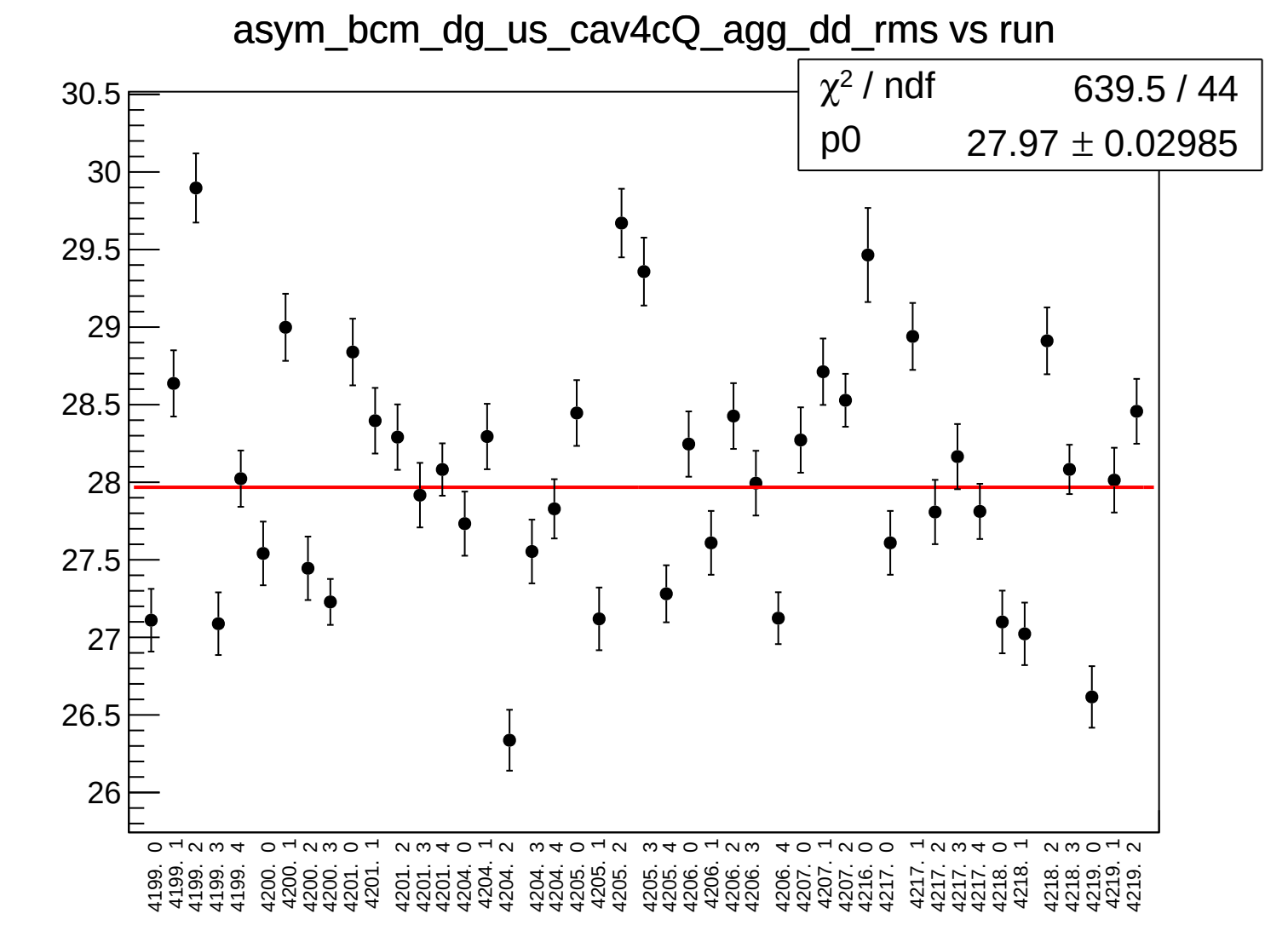

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 711.2 / 44
p0 25.03 ± 0.02671
27
26.5
26
25.5
25
24.5
24
23.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

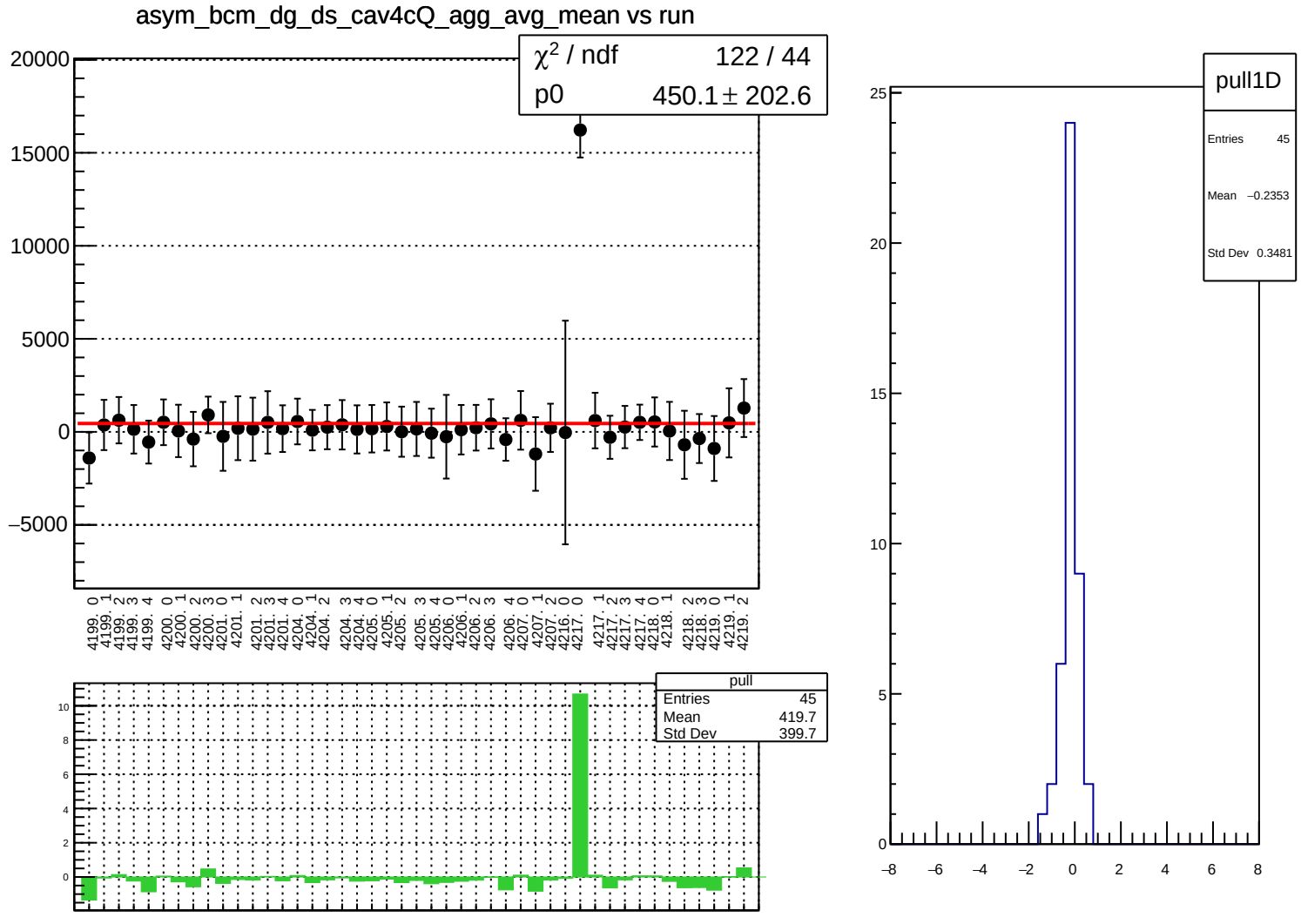

asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 112.7 / 44
p0 448.9 ± 206.8
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 974.5
Std Dev 954.1
10
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.2281
Std Dev 0.3856
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

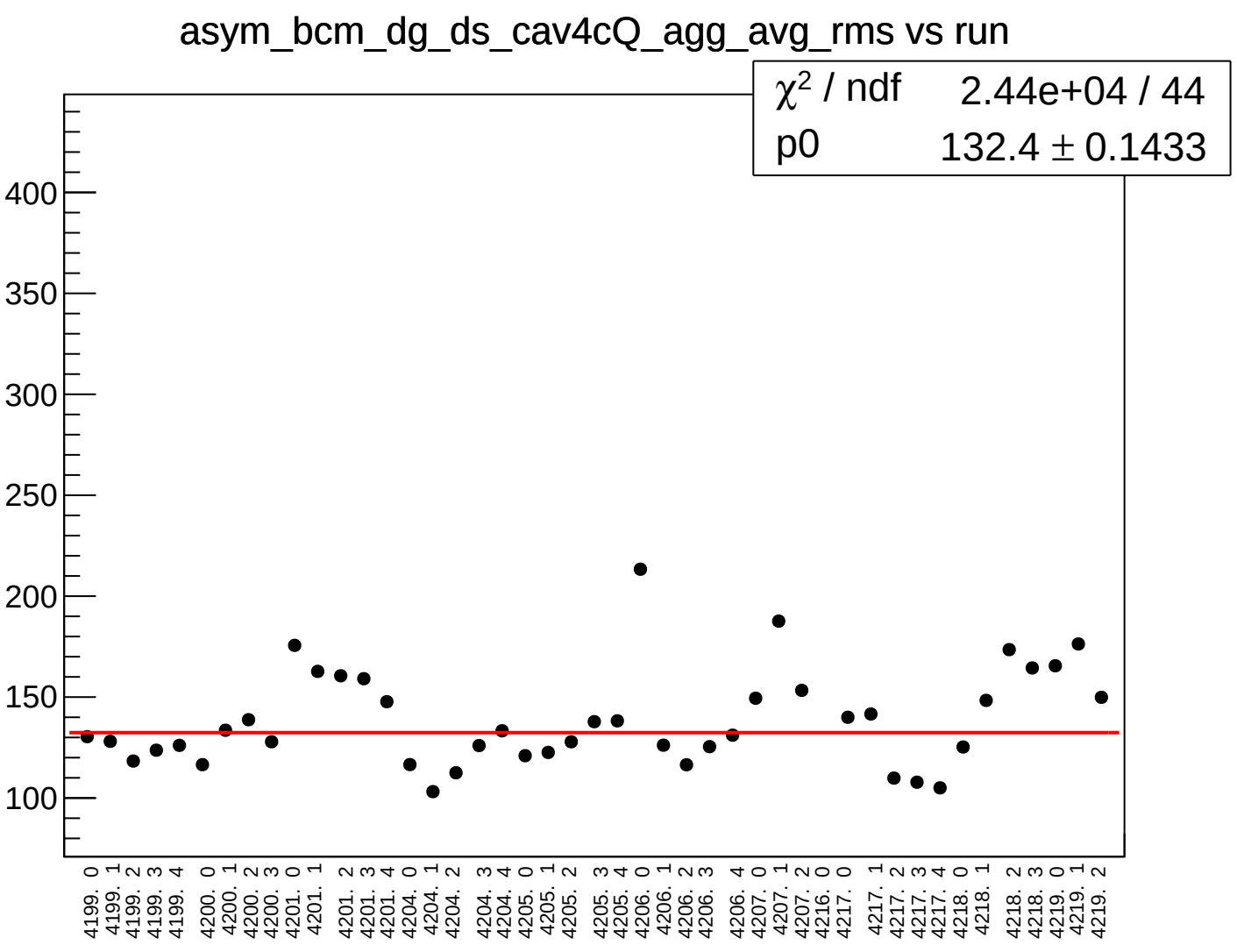

asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.354e+04 / 44
p0 135.2 ± 0.1463
450
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

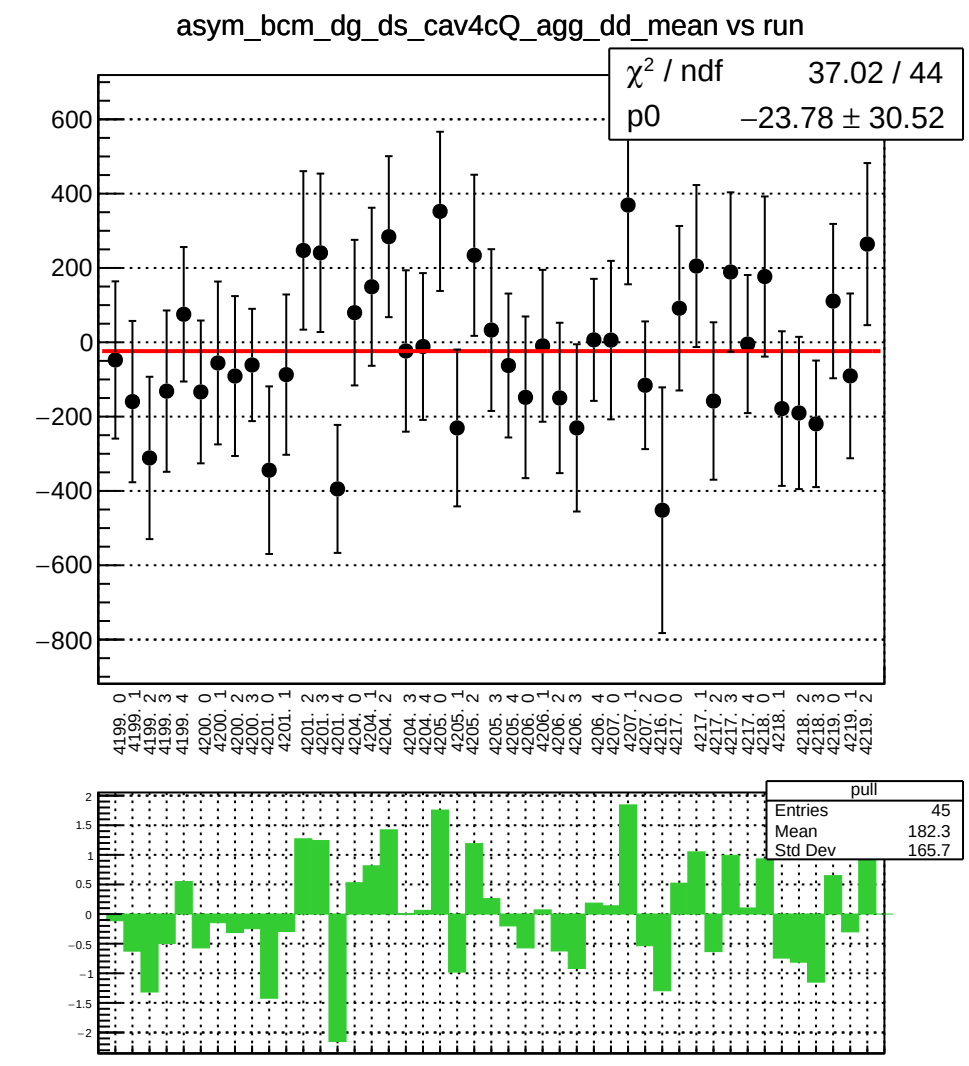

asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 33.04 / 44
p0 −25.78 ± 42.21
pull
Entries 45
Mean −178.5
Std Dev 199.6

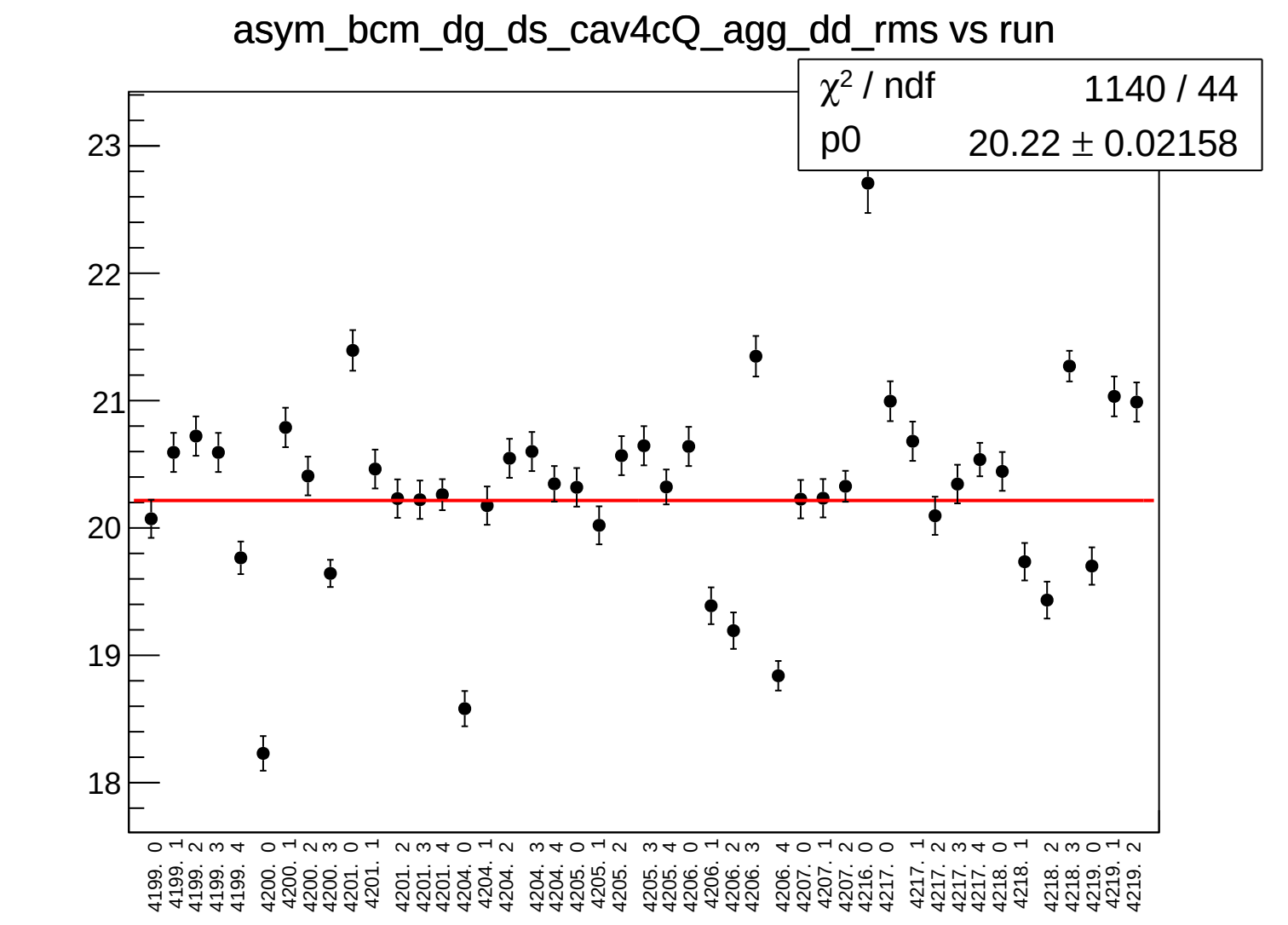

pull1D
Entries 45
Mean −0.01333
Std Dev 0.8568

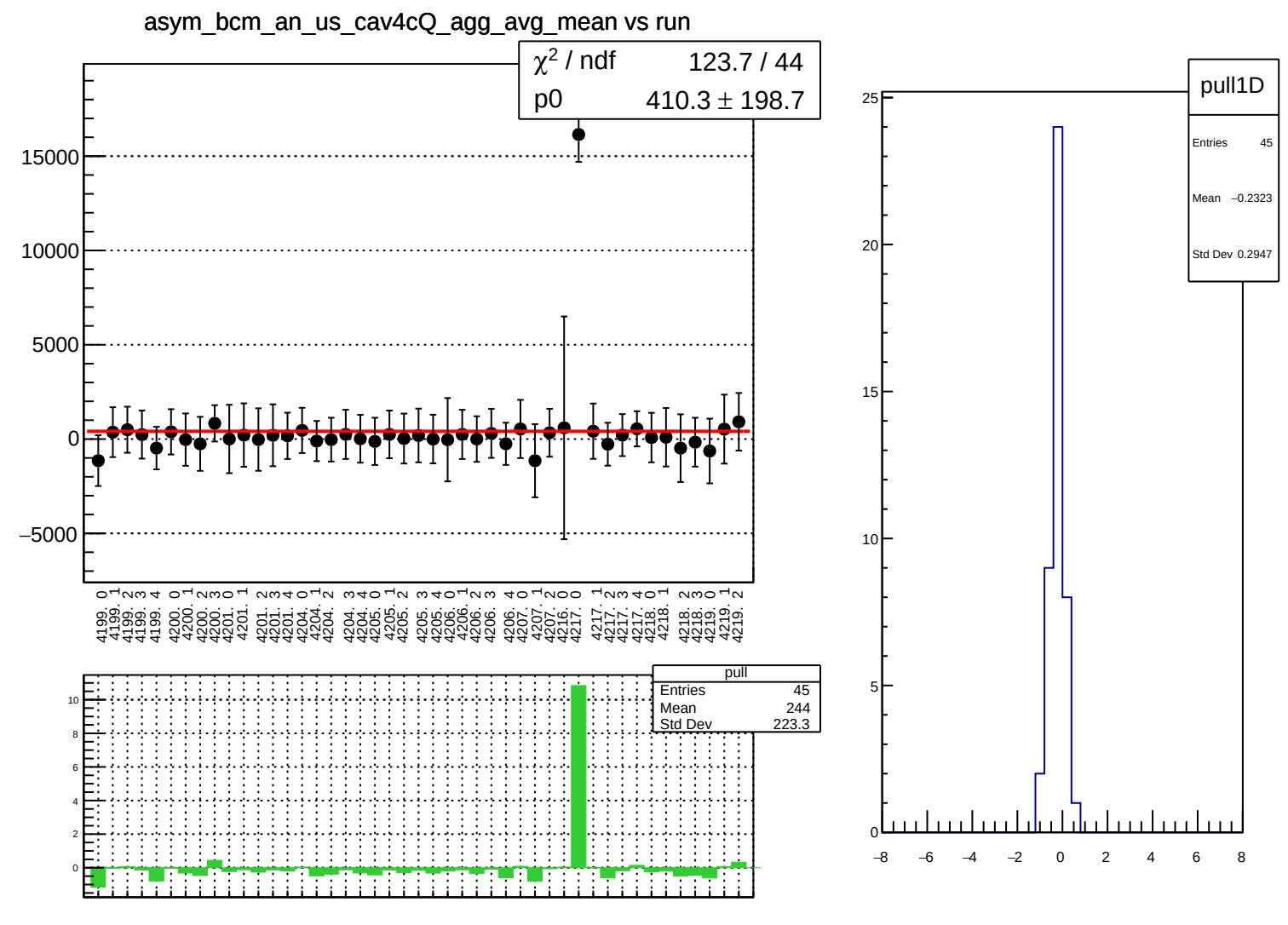

asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 639.5 / 44
p0 27.97 ± 0.02985
30.5
30
29.5
29
28.5
28
27.5
27
26.5
26
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

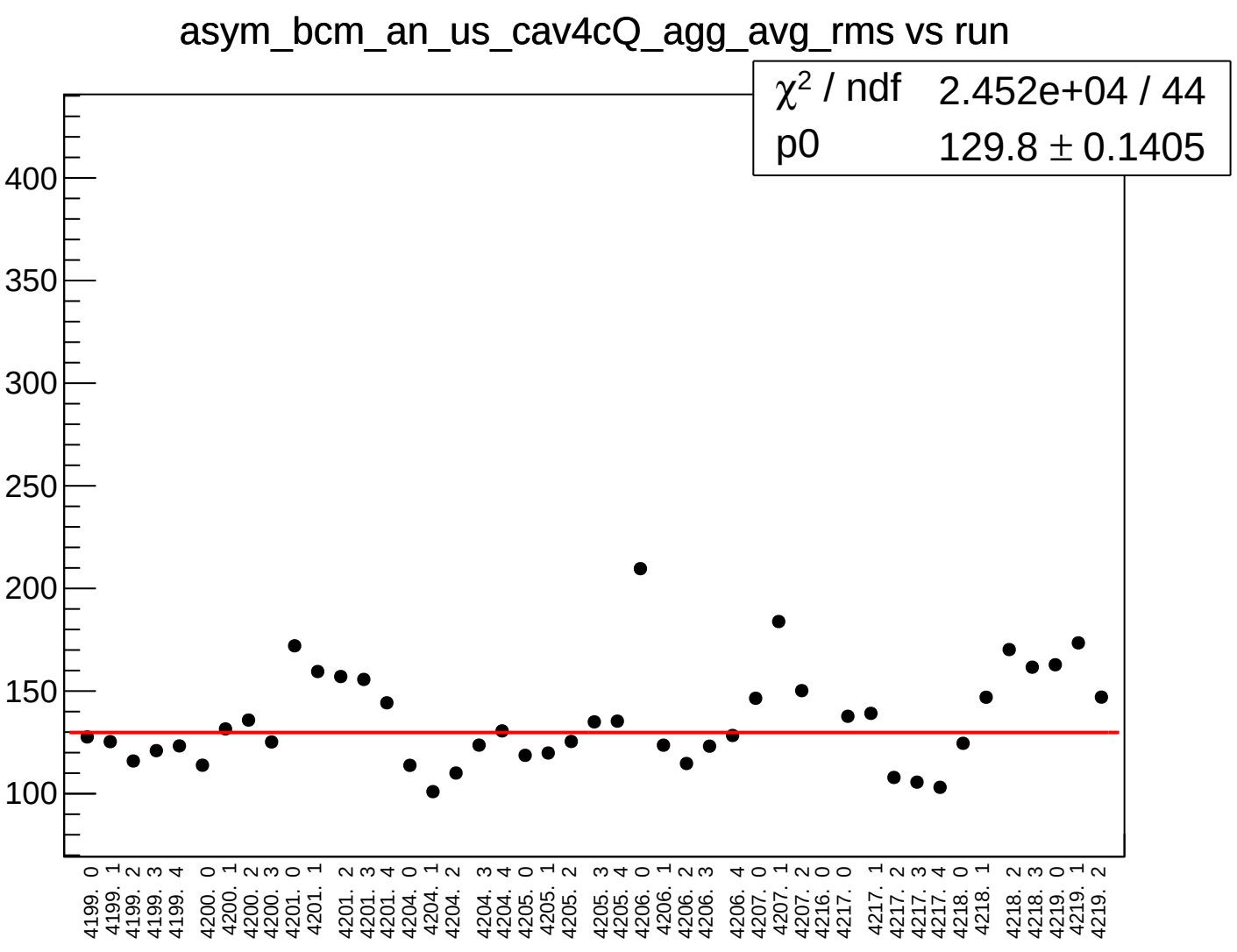

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 122 / 44
p0 450.1 ± 202.6
20000
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 419.7
Std Dev 399.7
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2353
Std Dev 0.3481
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

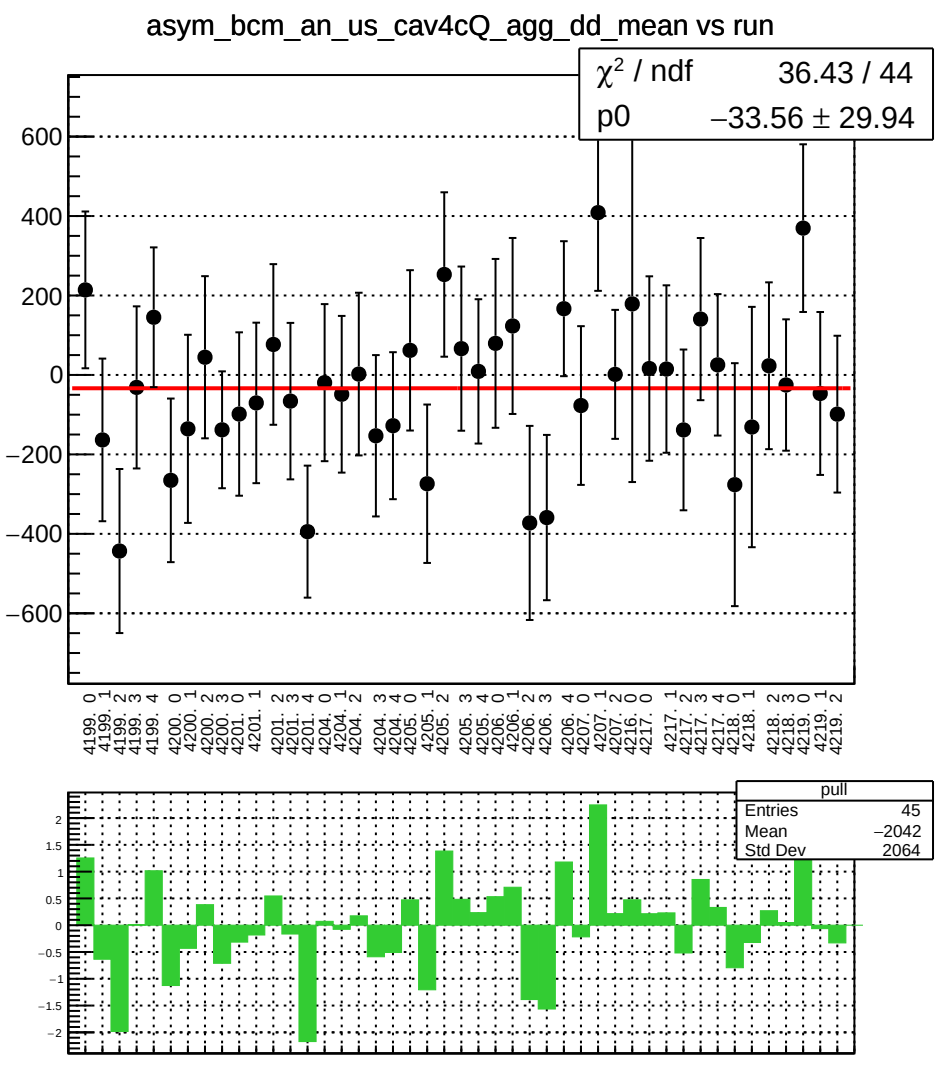

asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.44e+04 / 44
p0 132.4 ± 0.1433
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

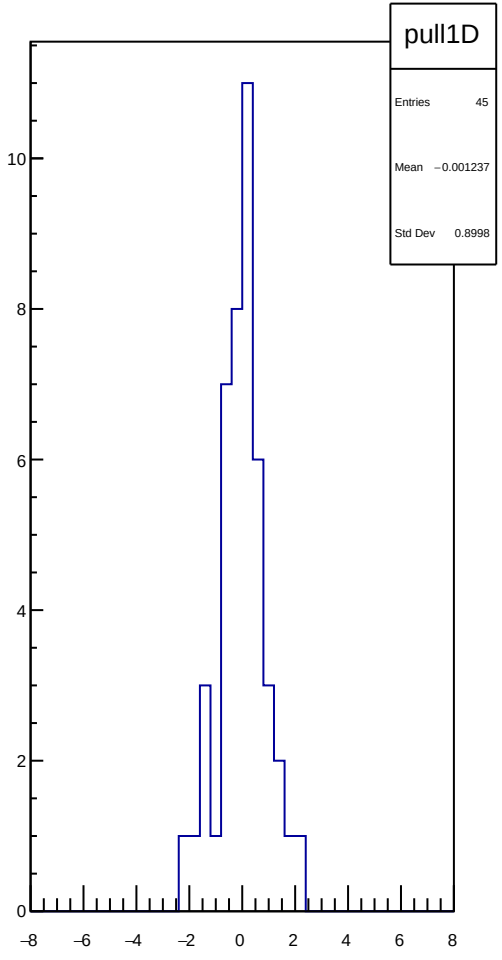

asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 37.02 / 44
p0 −23.78 ± 30.52
600
400
200
0
−200
−400
−600
−800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 182.3
Std Dev 165.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.009919
Std Dev 0.9069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

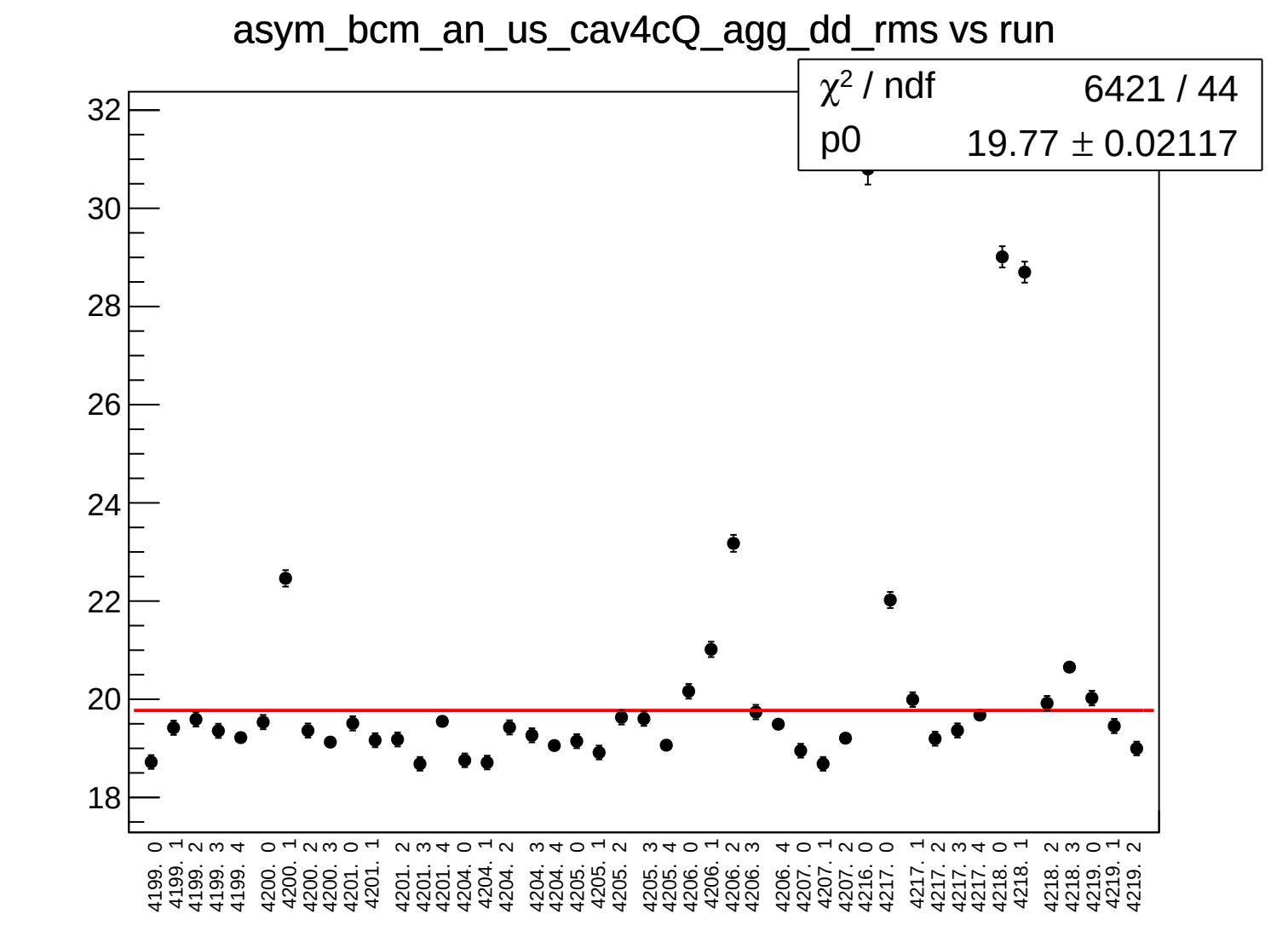

asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1140 / 44
p0 20.22 ± 0.02158
23
22
21
20
19
18
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

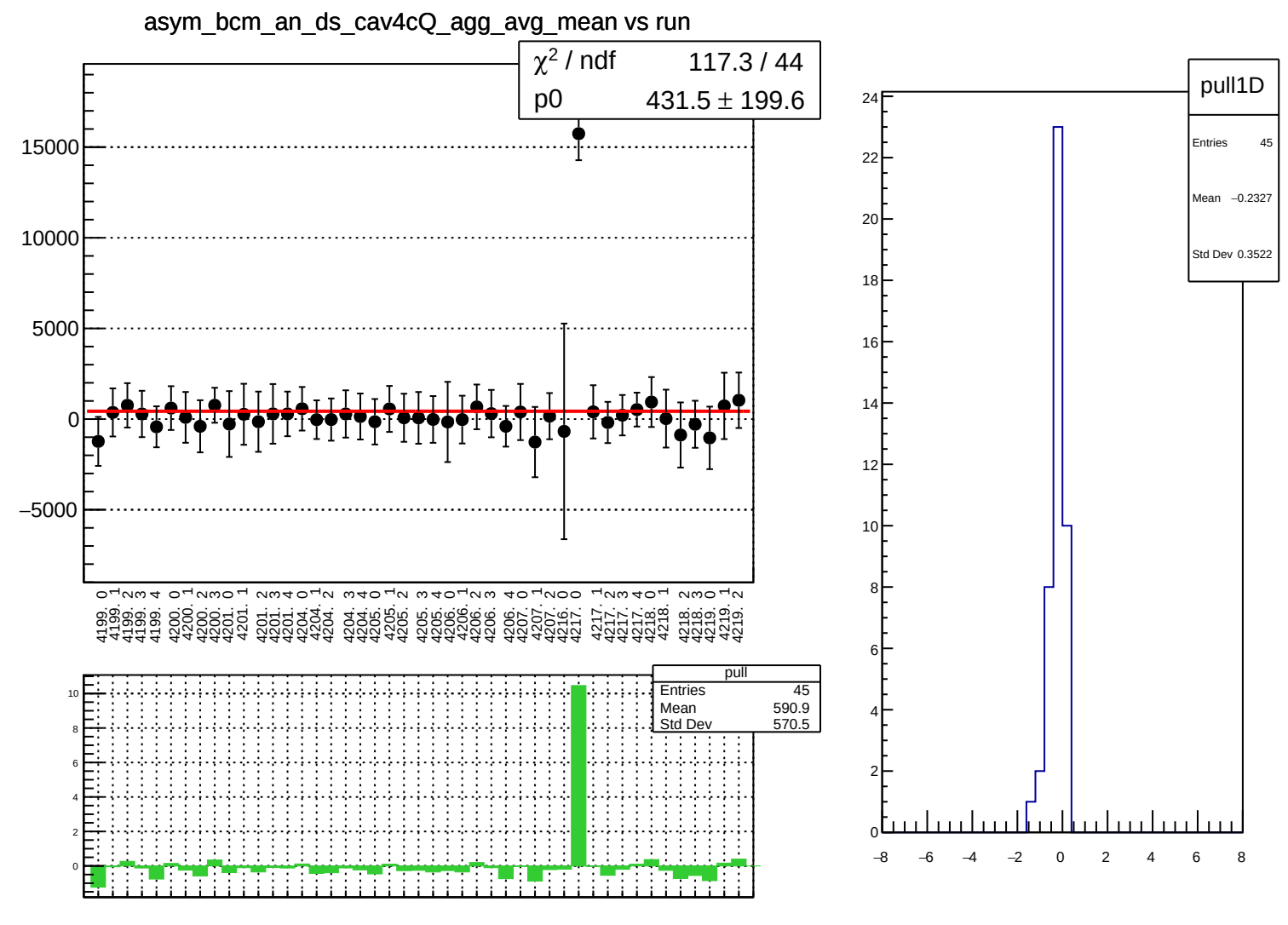

asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 123.7 / 44
p0 410.3 ± 198.7
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 244
Std Dev 223.3
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2323
Std Dev 0.2947
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

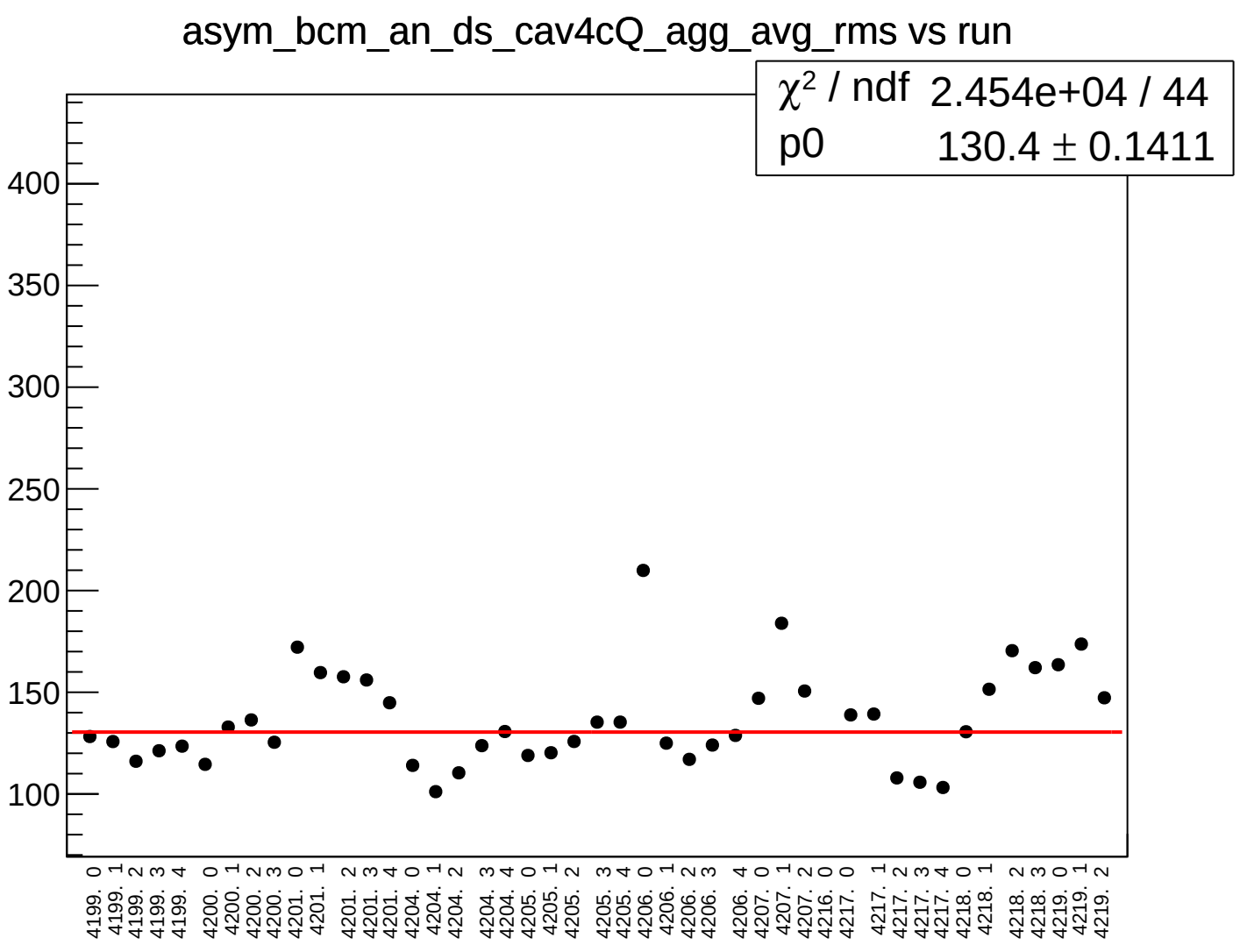

asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.452e+04 / 44
p0 129.8 ± 0.1405
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

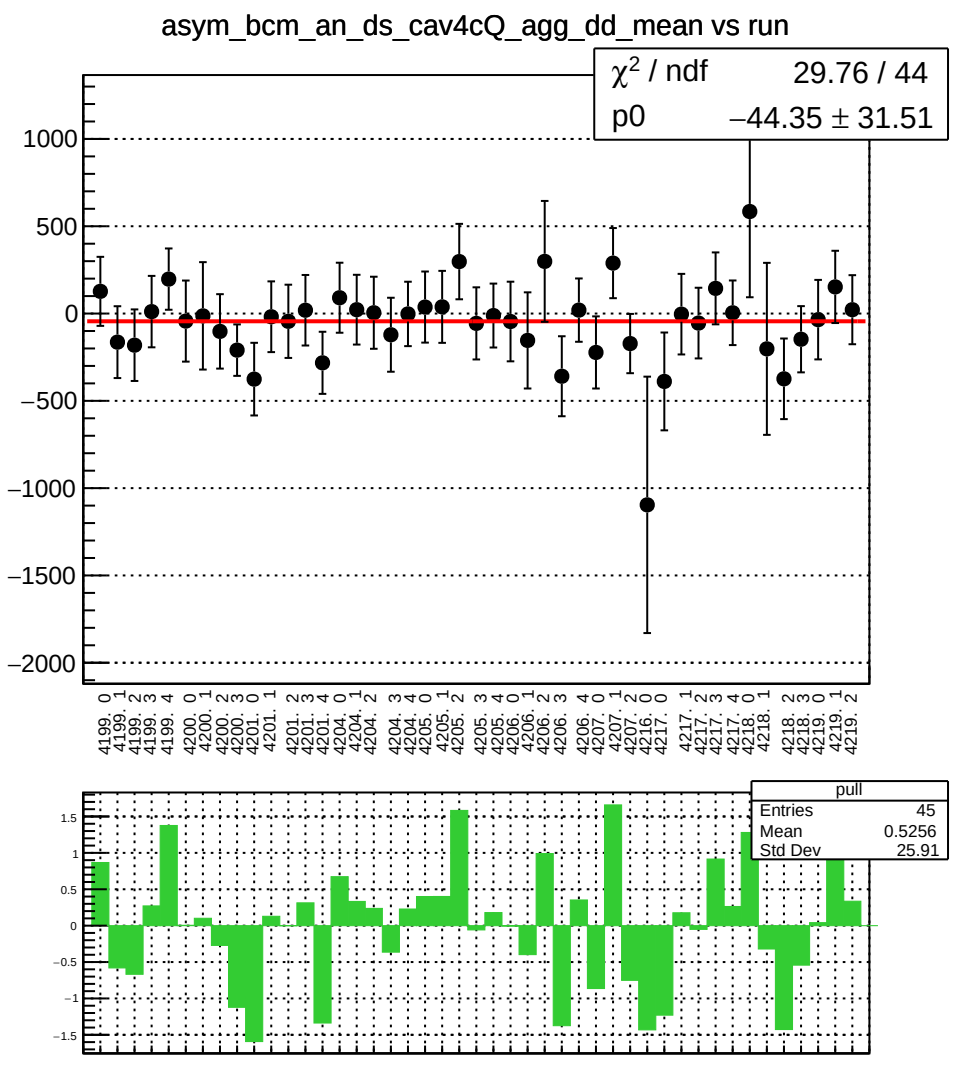

asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 36.43 / 44
p0 −33.56 ± 29.94
600
400
200
0
−200
−400
−600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −2042
Std Dev 2064
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

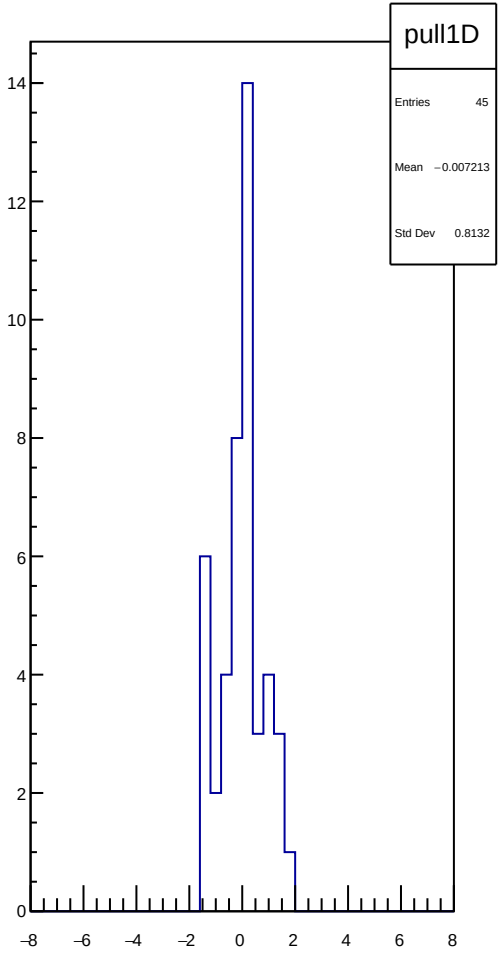

pull1D
Entries 45
Mean −0.001237
Std Dev 0.8998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

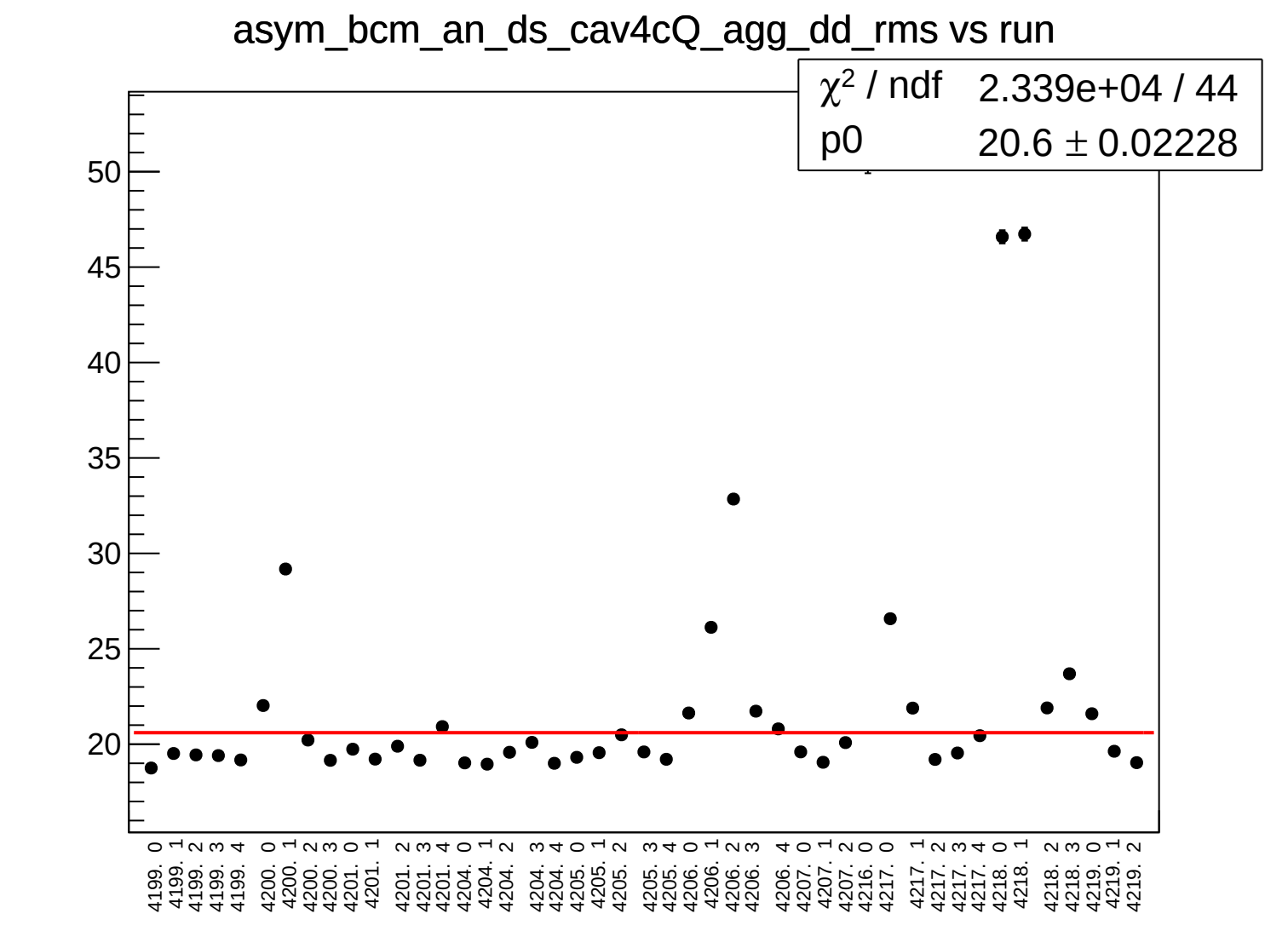

asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 6421 / 44
p0 19.77 ± 0.02117
32
30
28
26
24
22
20
18
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

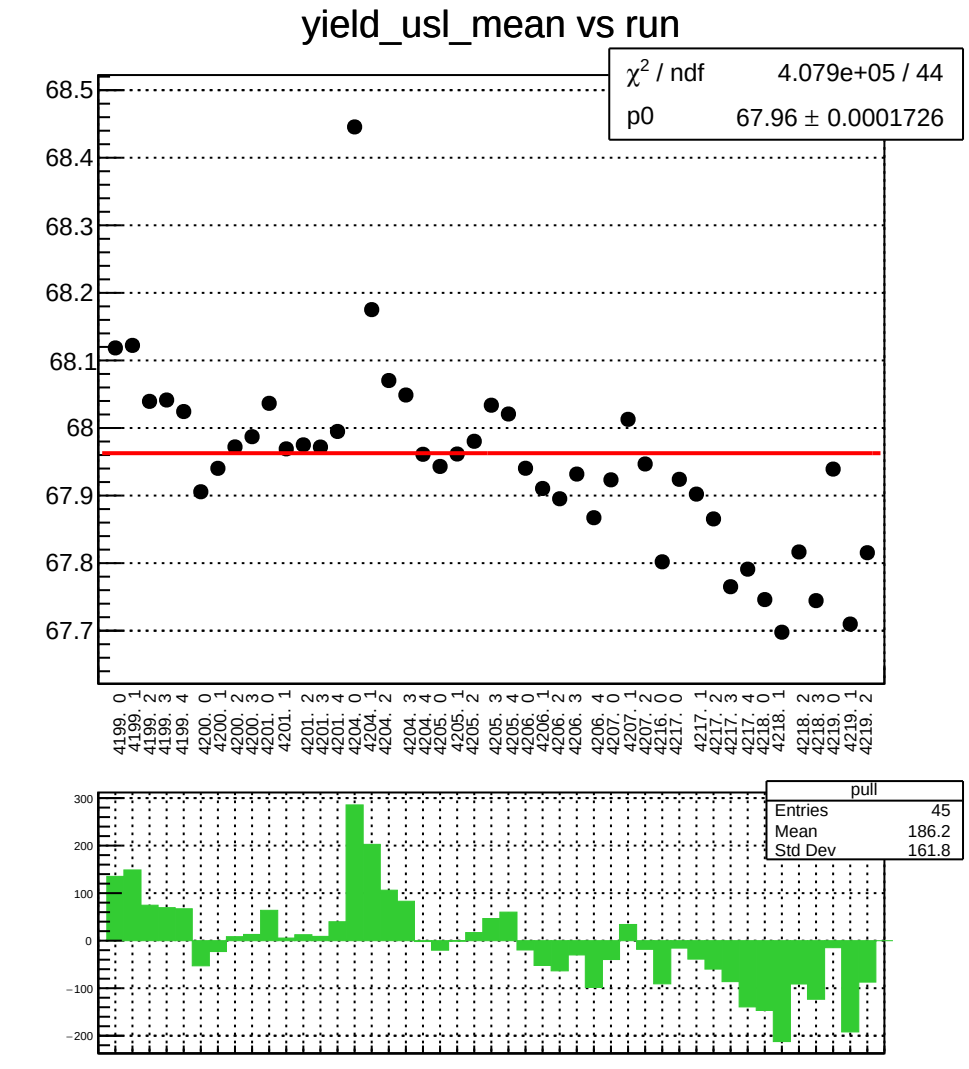

asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 117.3 / 44
p0 431.5 ± 199.6
15000
10000
5000
0
−5000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 590.9
Std Dev 570.5
10
8
6
4
2
0
pull1D
Entries 45
Mean −0.2327
Std Dev 0.3522
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

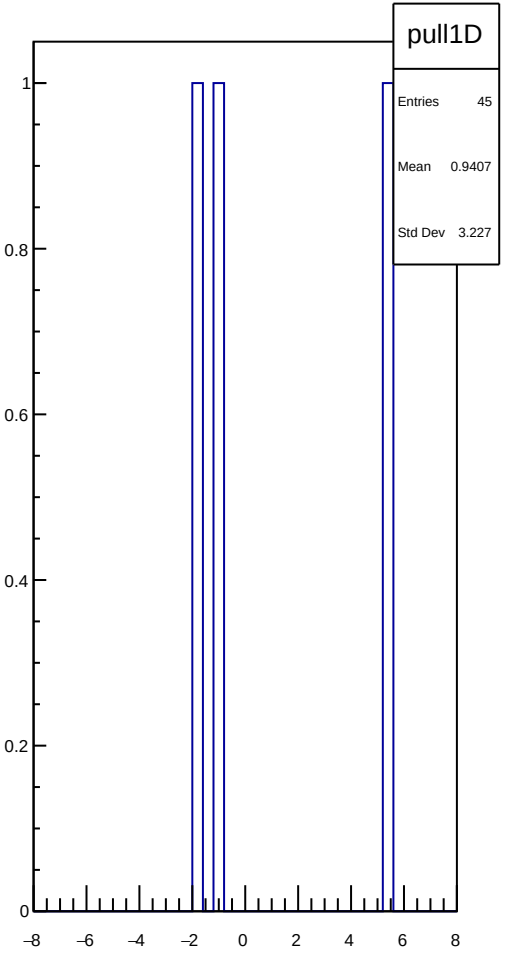

asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.454e+04 / 44
p0 130.4 ± 0.1411
400
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

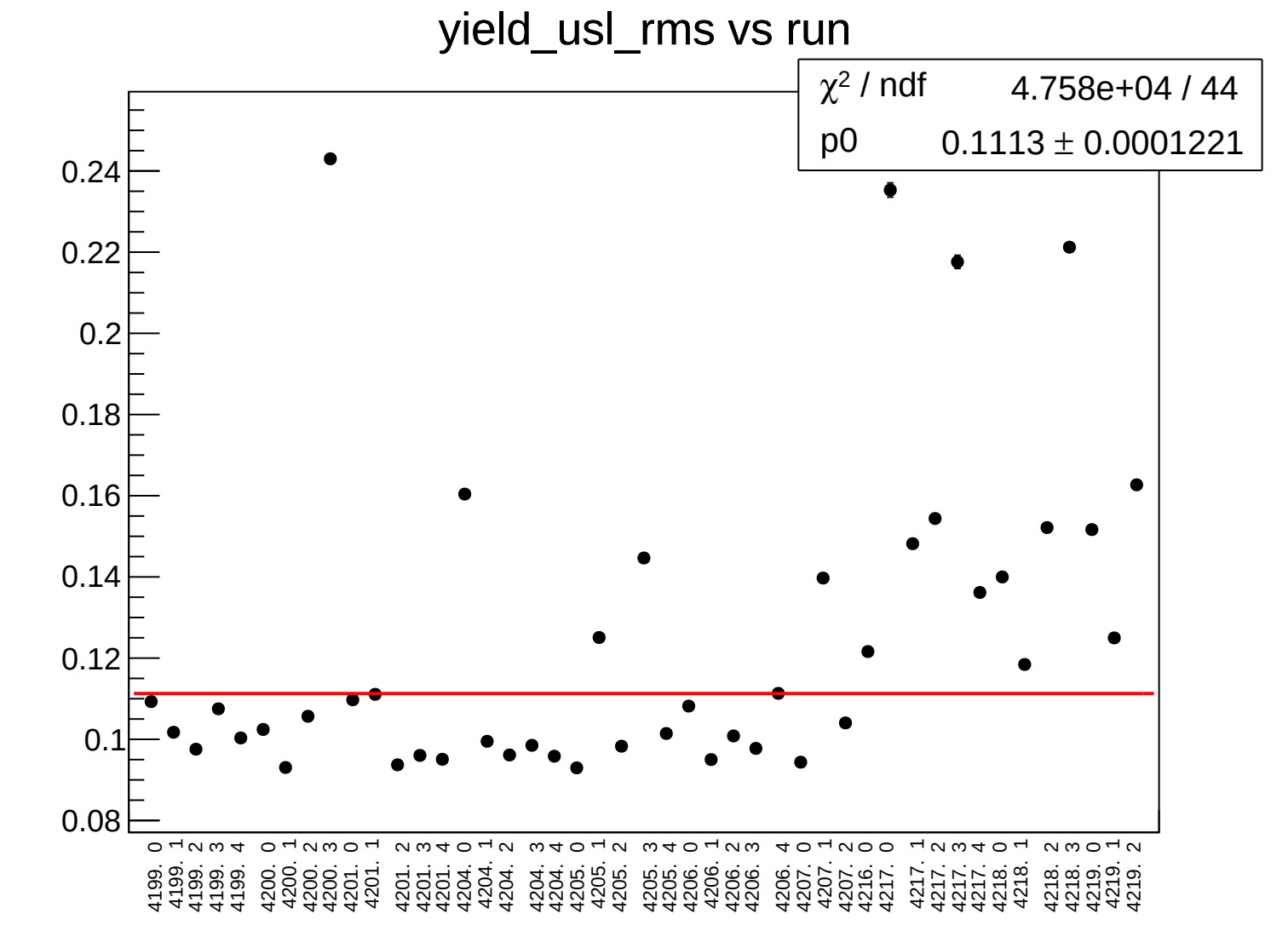

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 29.76 / 44
p0 −44.35 ± 31.51
1000
500
0
−500
−1000
−1500
−2000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 0.5256
Std Dev 25.91
1.5
1
0.5
0
−0.5
−1
−1.5

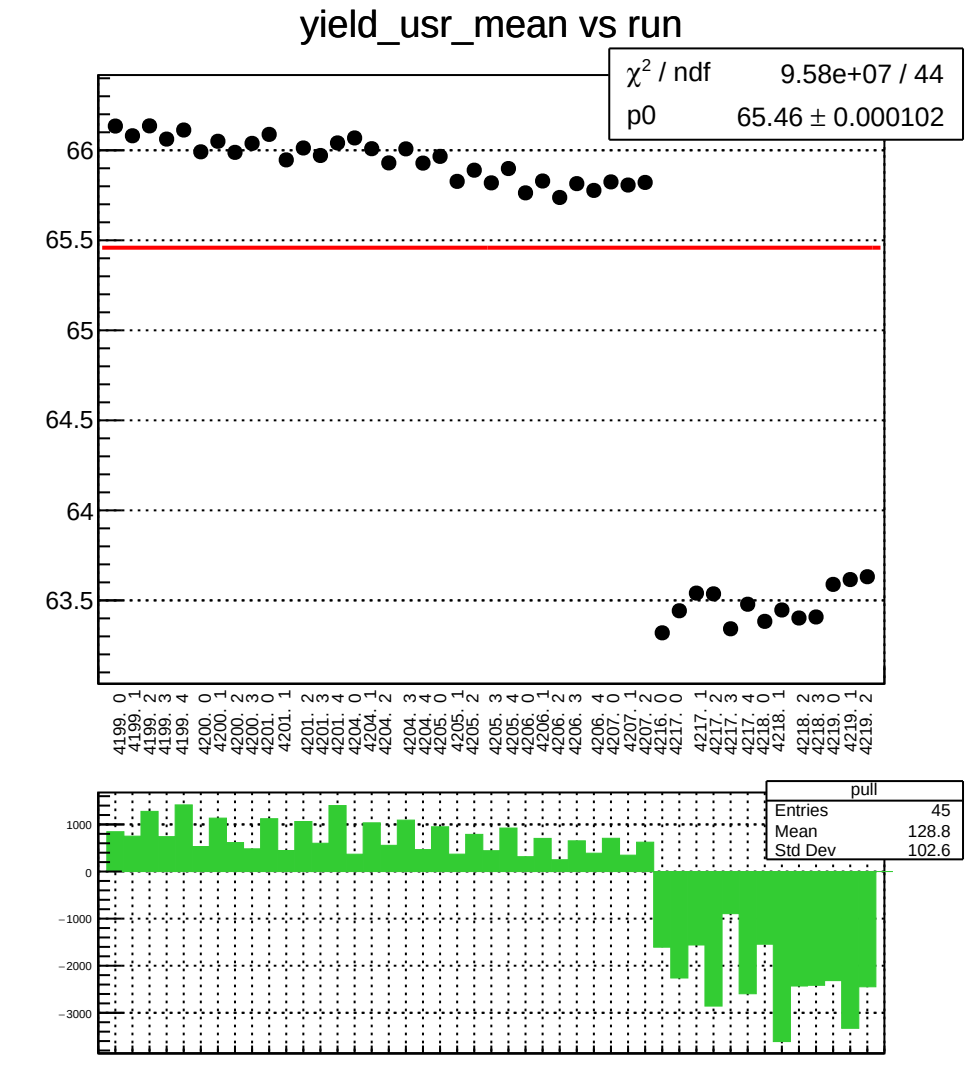

pull1D
Entries 45
Mean −0.007213
Std Dev 0.8132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

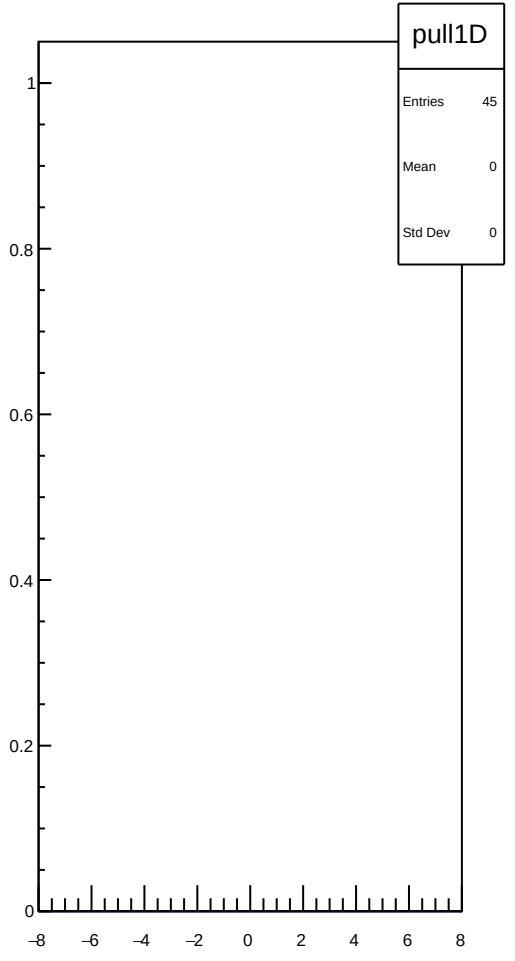

asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 2.339e+04 / 44
p0 20.6 ± 0.02228
50
45
40
35
30
25
20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

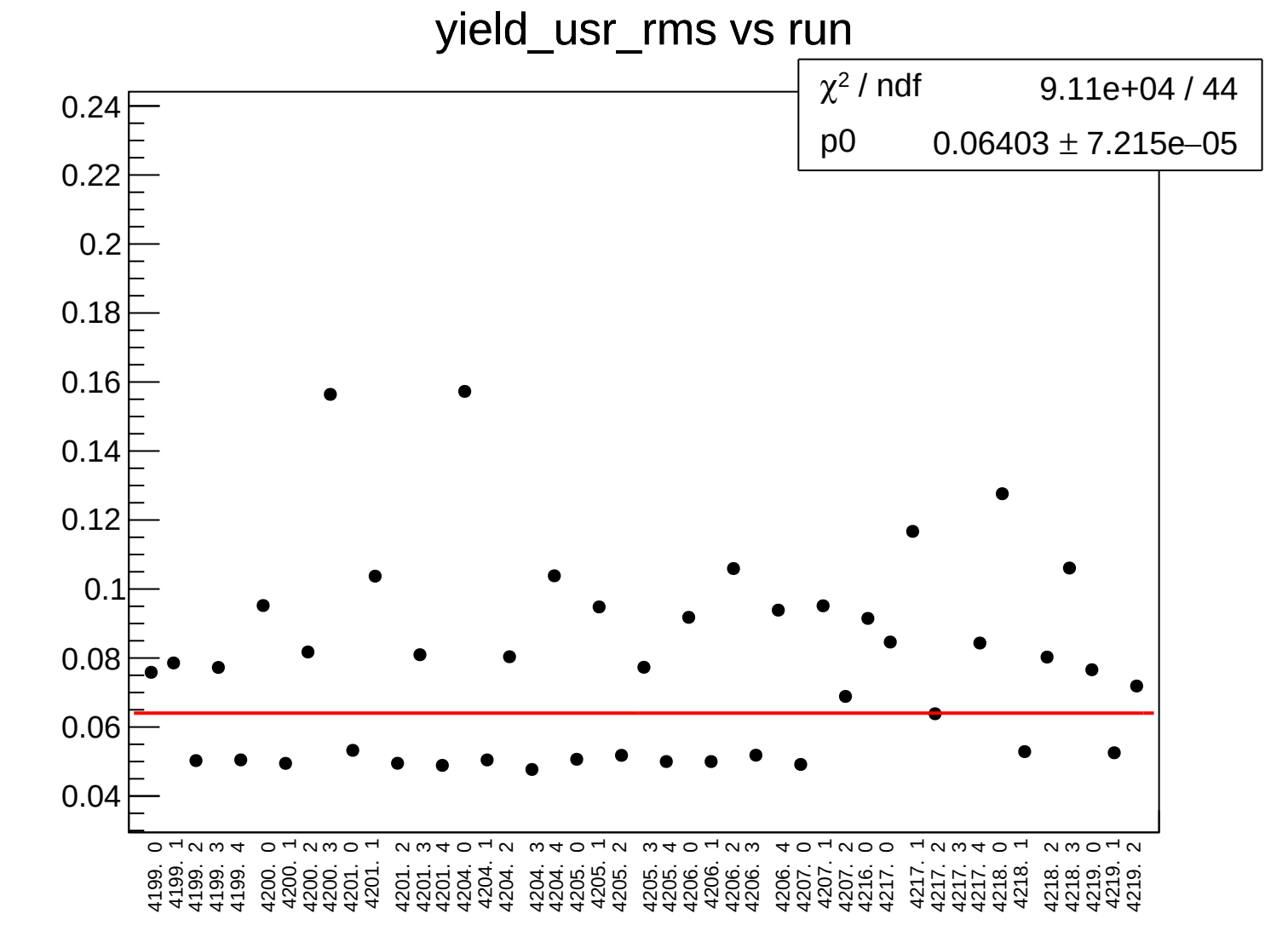

yield_usl_mean vs run
χ² / ndf 4.079e+05 / 44
p0 67.96 ± 0.0001726
68.5
68.4
68.3
68.2
68.1
68
67.9
67.8
67.7
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 186.2
Std Dev 161.8
300
200
100
0
−100
−200

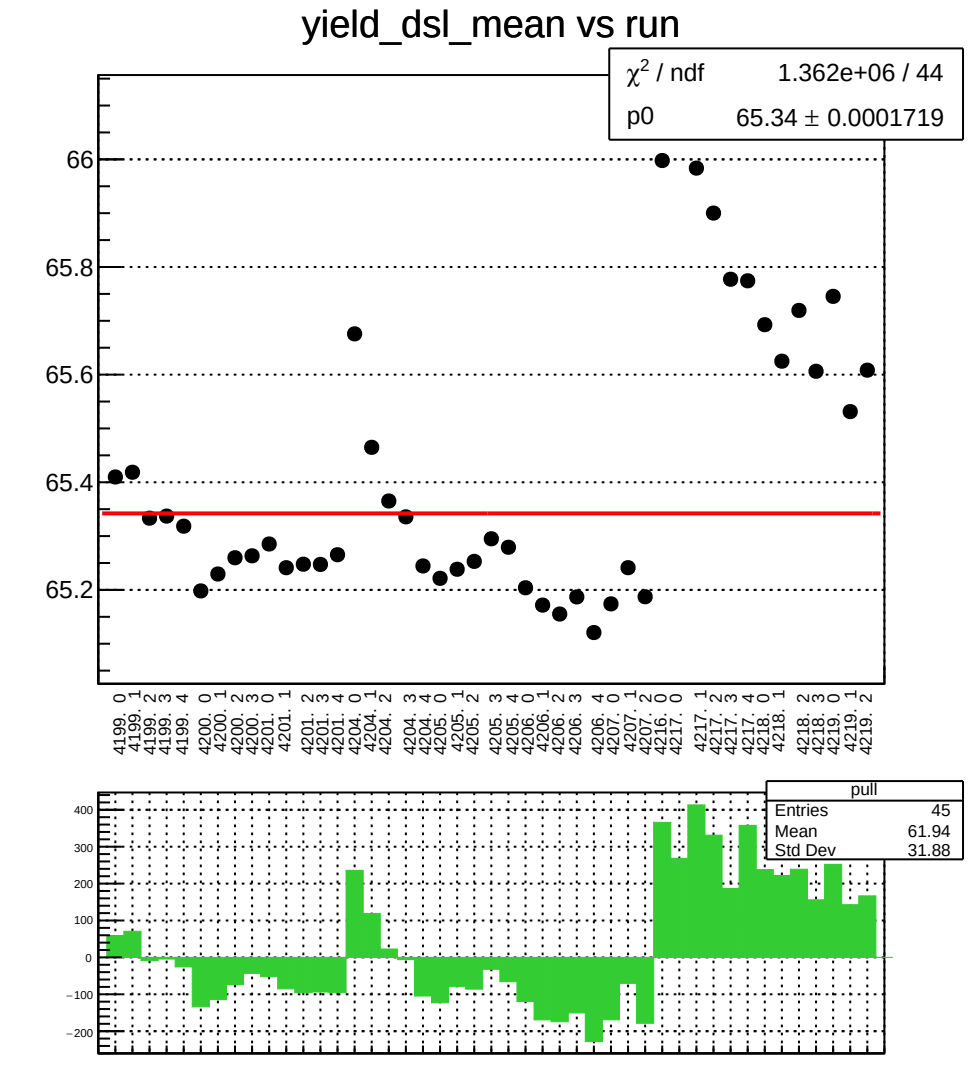

pull1D
Entries 45
Mean 0.9407
Std Dev 3.227
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

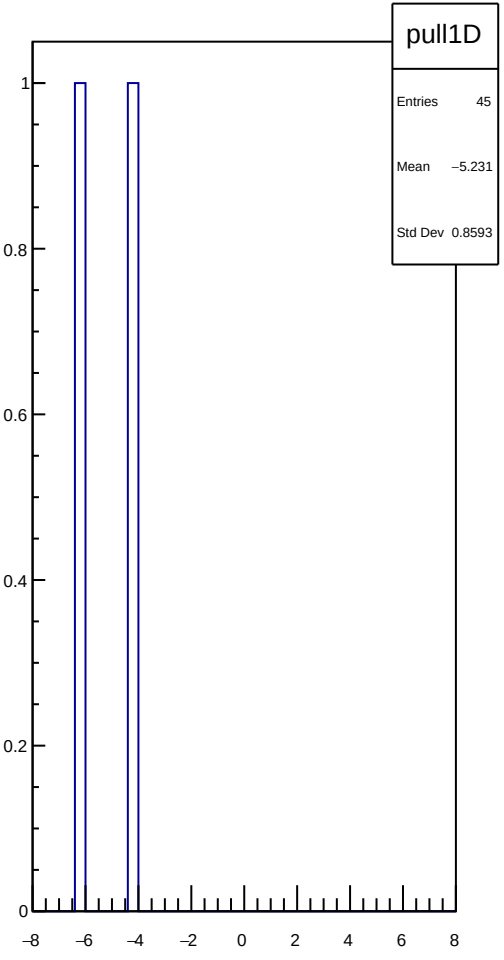

yield_usl_rms vs run
χ² / ndf 4.758e+04 / 44
p0 0.1113 ± 0.0001221
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

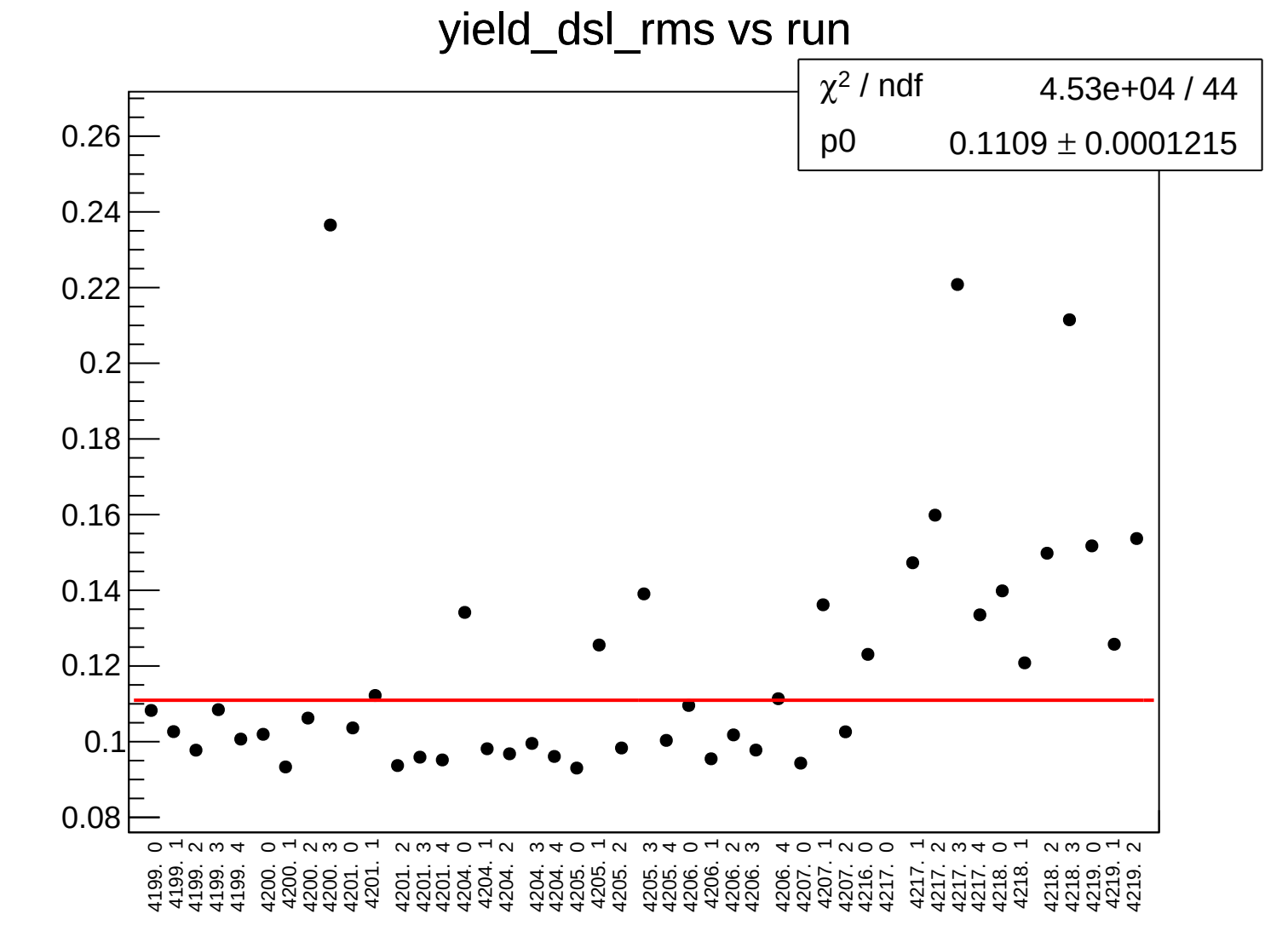

yield_usr_mean vs run
χ² / ndf 9.58e+07 / 44
p0 65.46 ± 0.000102
66
65.5
65
64.5
64
63.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 128.8
Std Dev 102.6
1000
0
−1000
−2000
−3000

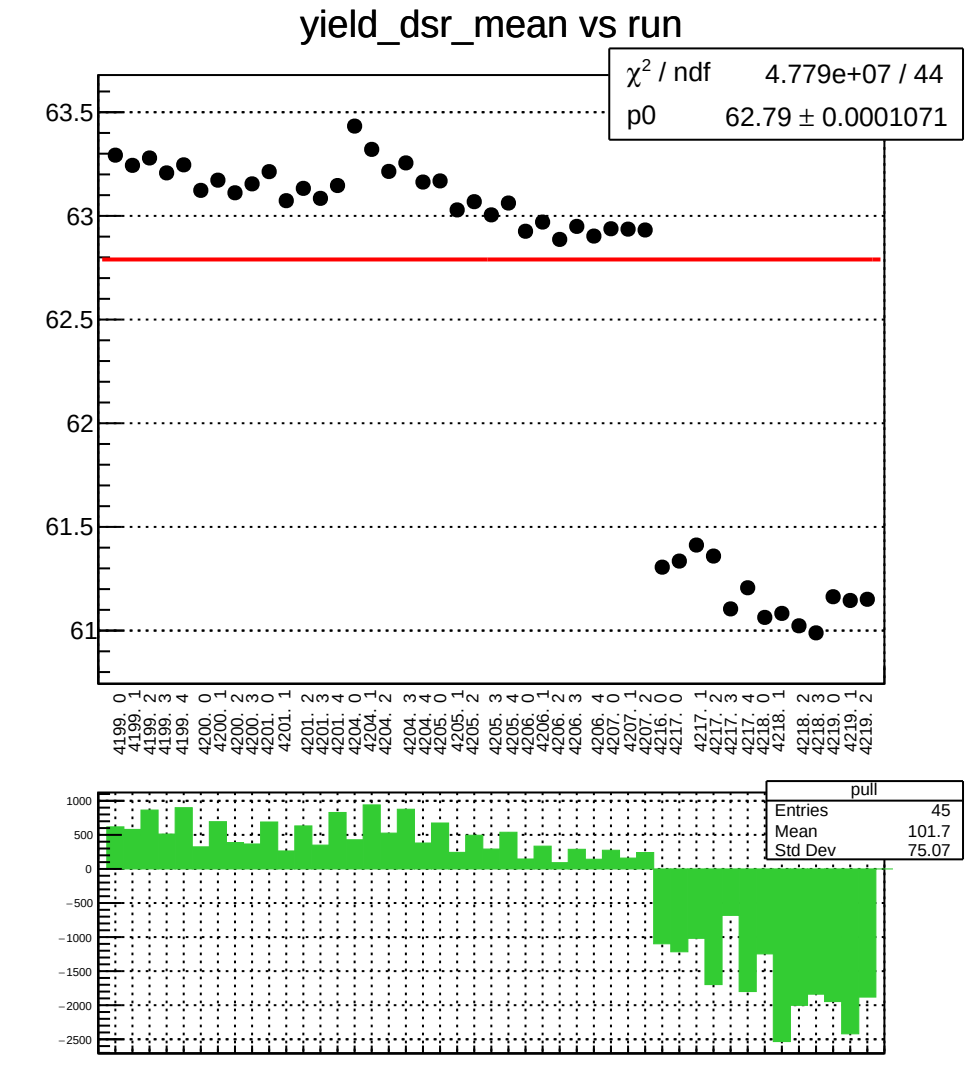

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

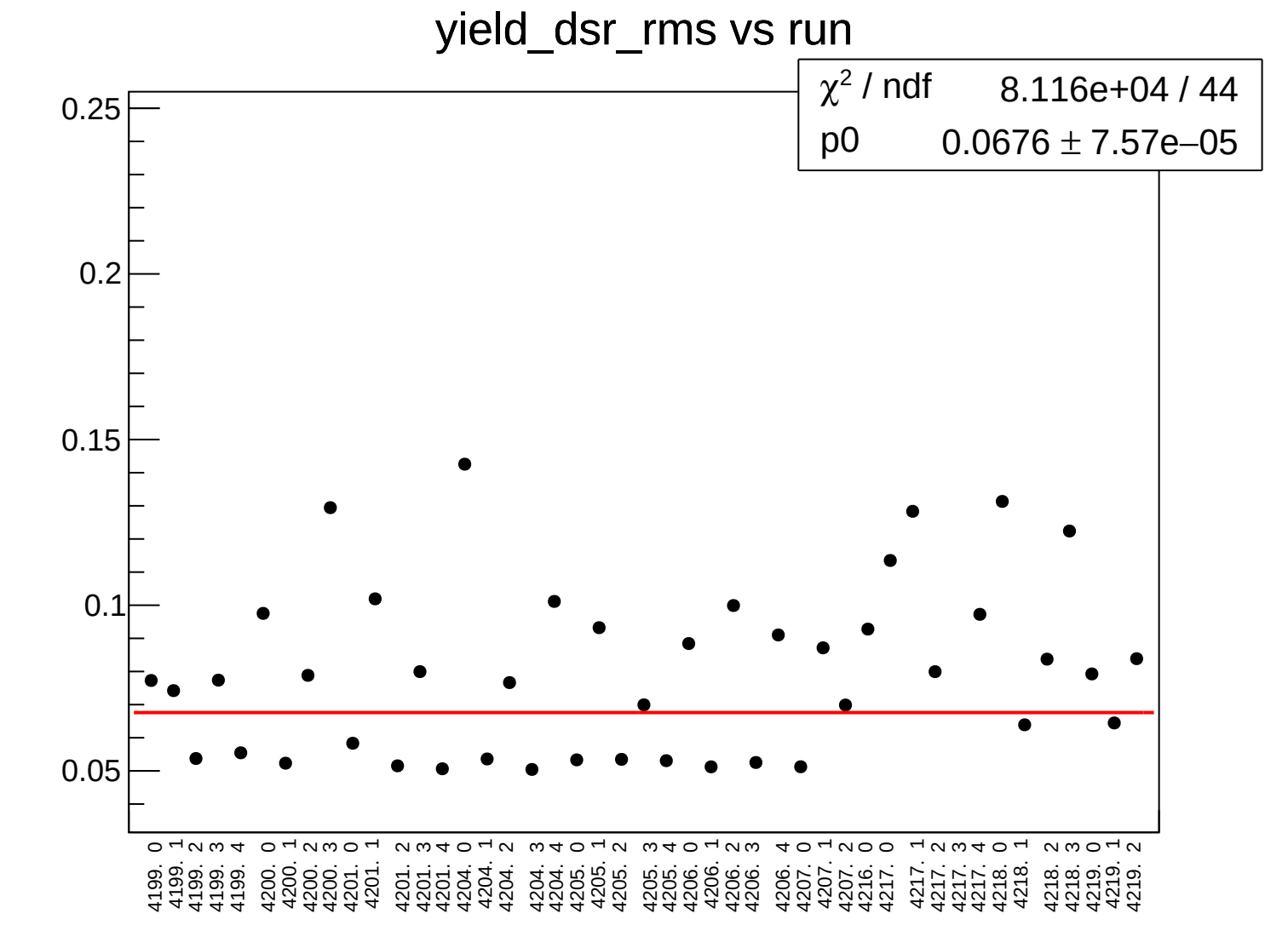

yield_usr_rms vs run
χ² / ndf 9.11e+04 / 44
p0 0.06403 ± 7.215e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

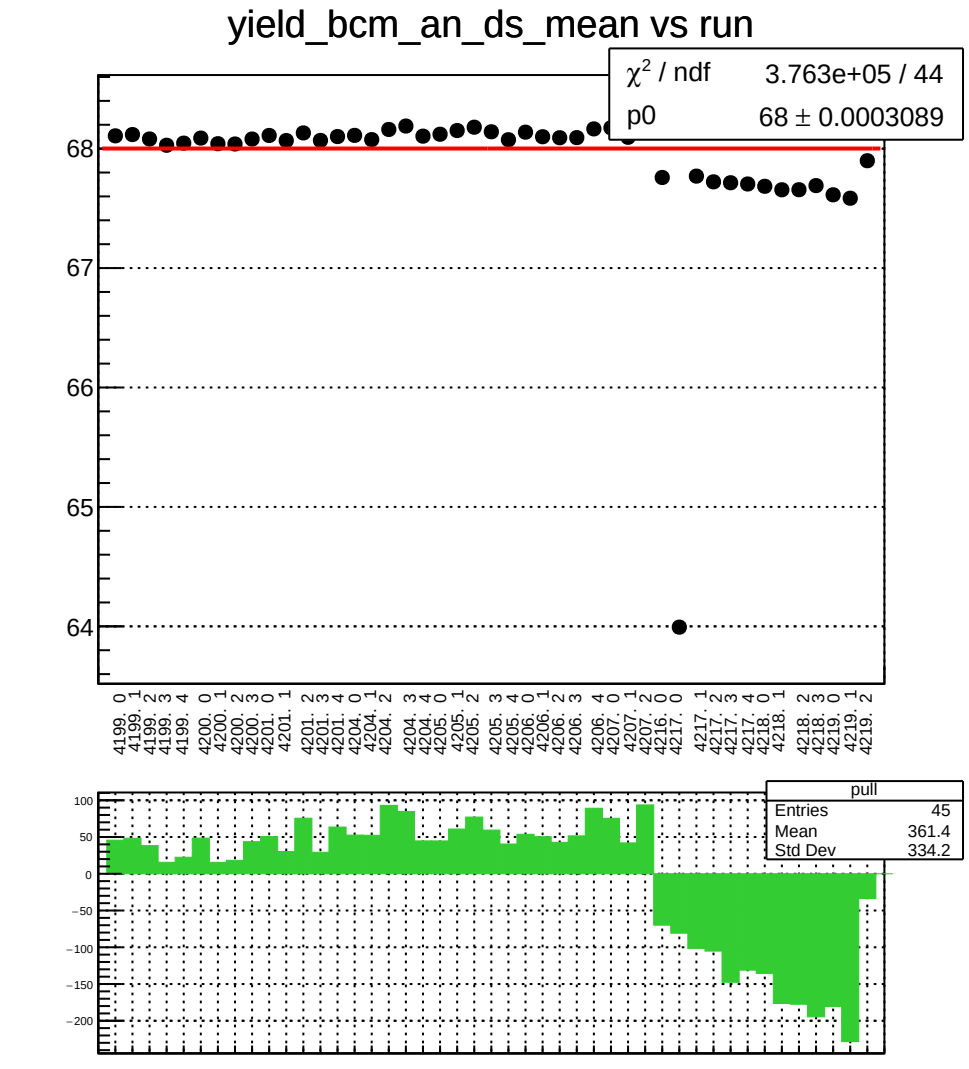

yield_dsl_mean vs run
χ² / ndf 1.362e+06 / 44
p0 65.34 ± 0.0001719
66
65.8
65.6
65.4
65.2
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 61.94
Std Dev 31.88
400
300
200
100
0
−100
−200

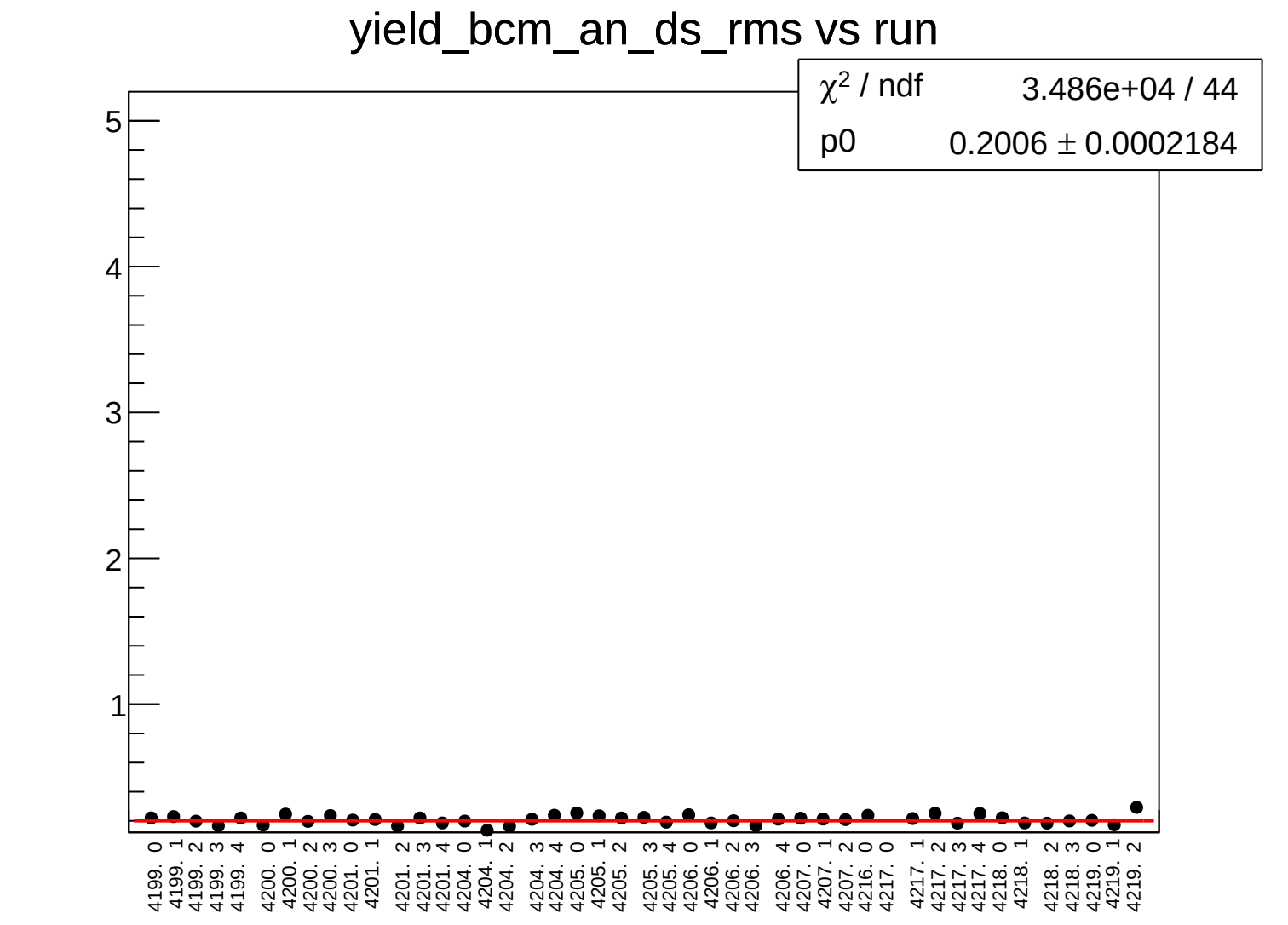

pull1D
Entries 45
Mean −5.231
Std Dev 0.8593
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

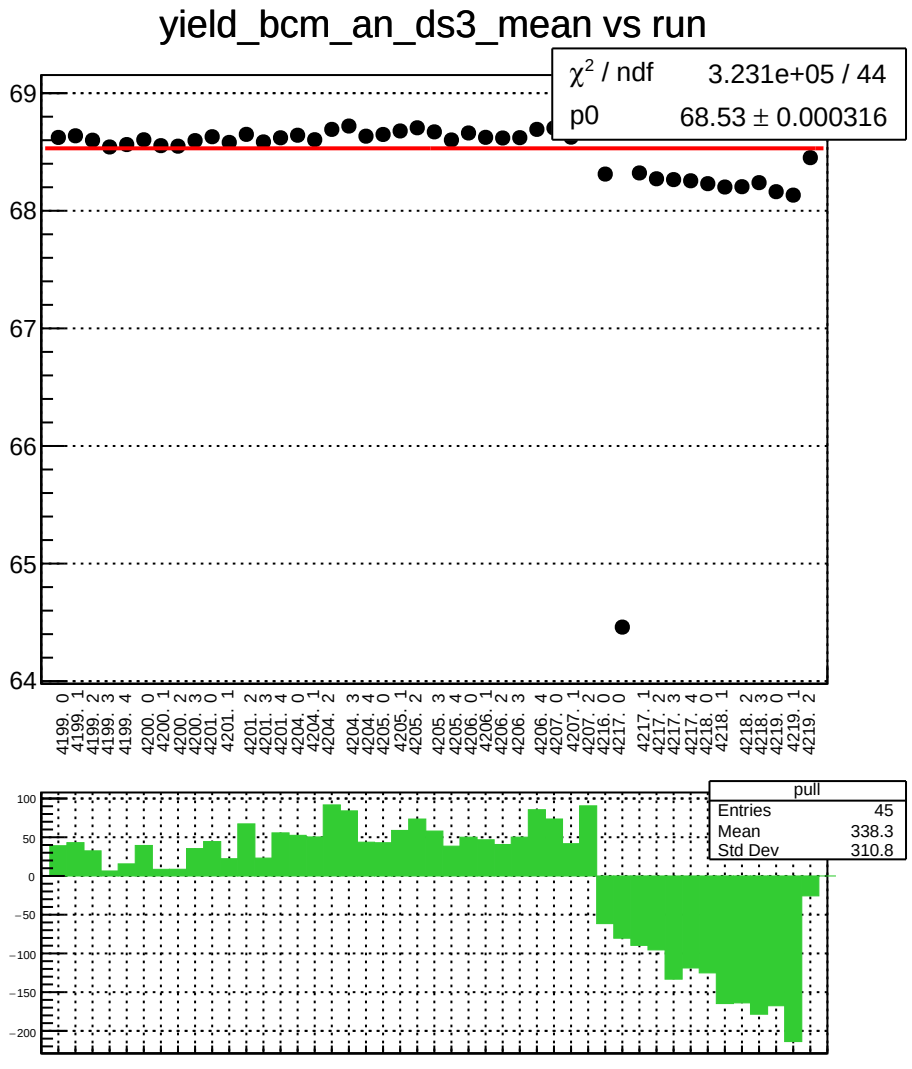

yield_dsl_rms vs run
χ² / ndf 4.53e+04 / 44
p0 0.1109 ± 0.0001215
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

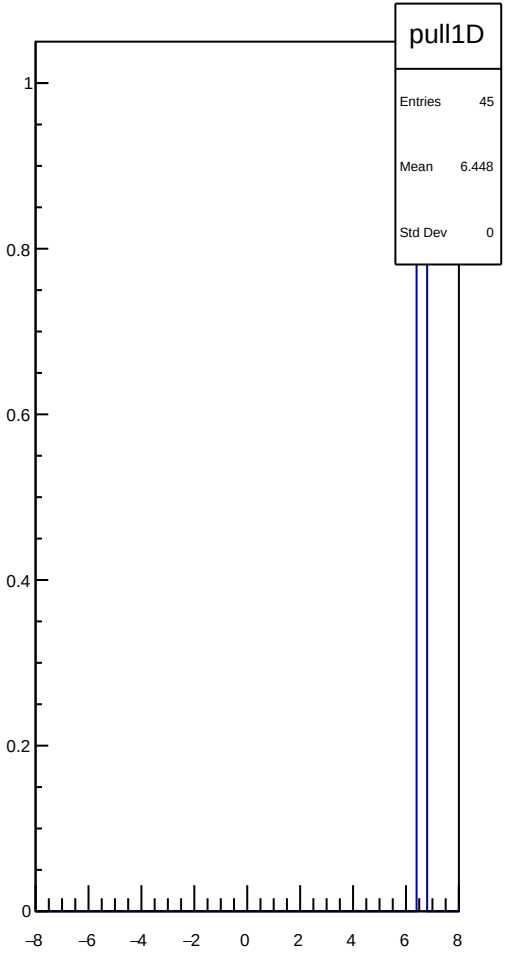

yield_dsr_mean vs run
χ² / ndf 4.779e+07 / 44
p0 62.79 ± 0.0001071
63.5
63
62.5
62
61.5
61
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 101.7
Std Dev 75.07
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

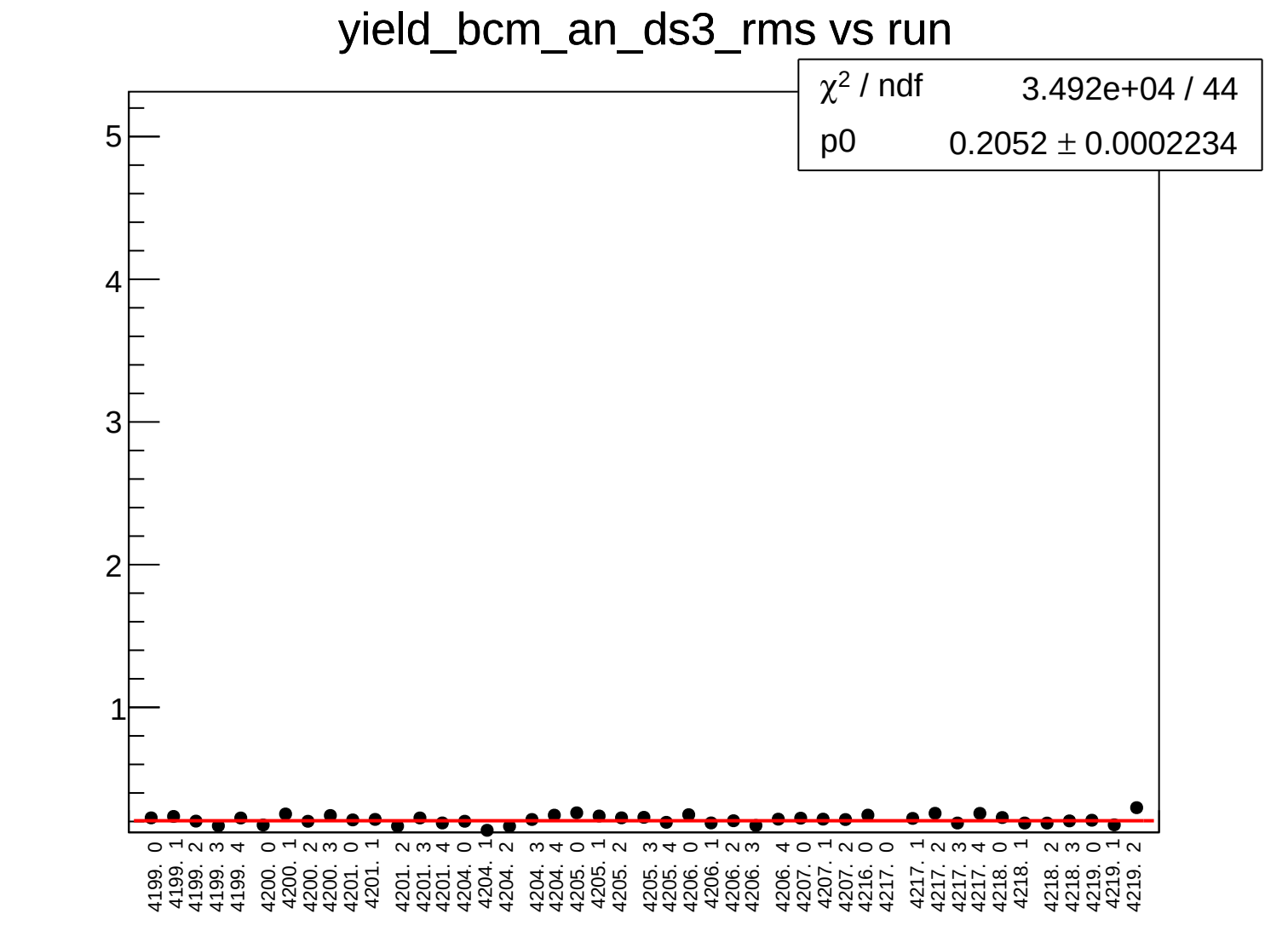

yield_dsr_rms vs run
χ² / ndf 8.116e+04 / 44
p0 0.0676 ± 7.57e−05
0.25
0.2
0.15
0.1
0.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

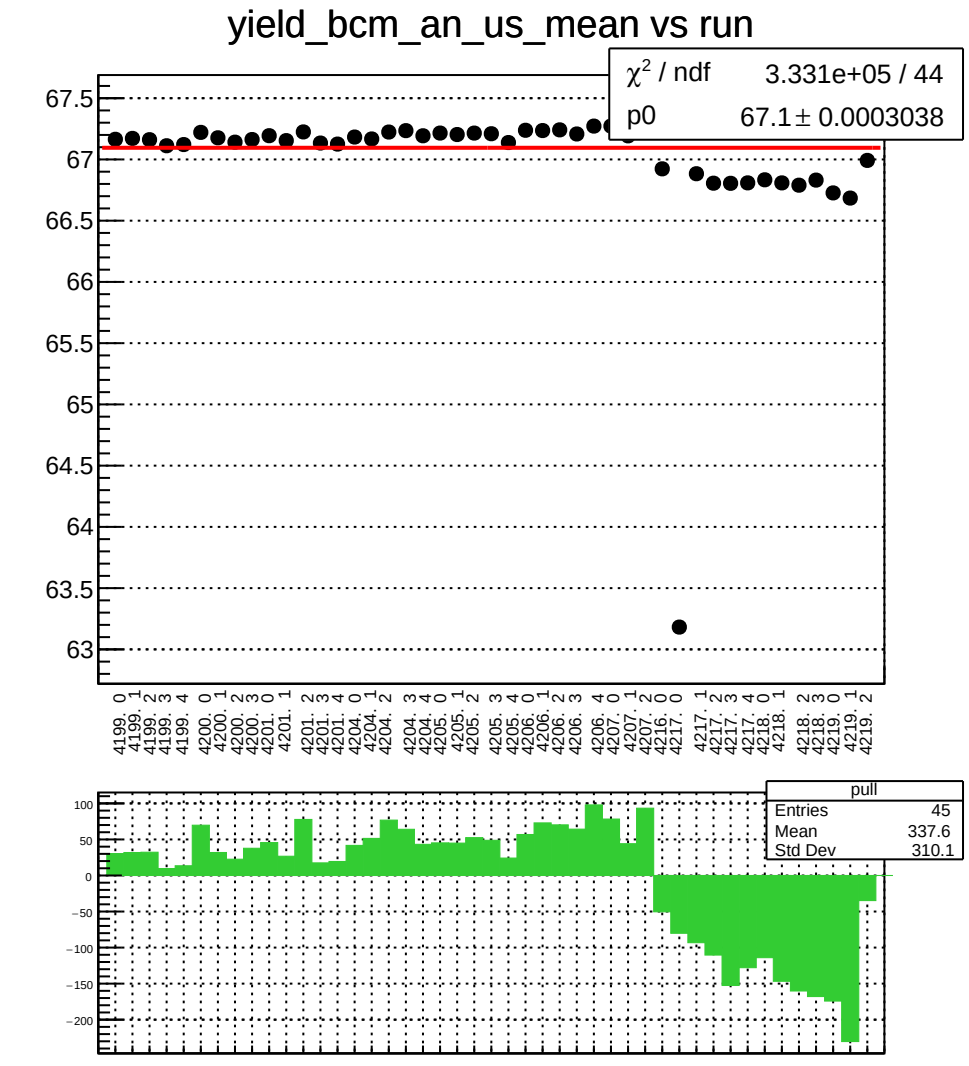

yield_bcm_an_ds_mean vs run
χ² / ndf 3.763e+05 / 44
p0 68 ± 0.0003089
68
67
66
65
64
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 361.4
Std Dev 334.2
100
50
0
−50
−100
−150
−200
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

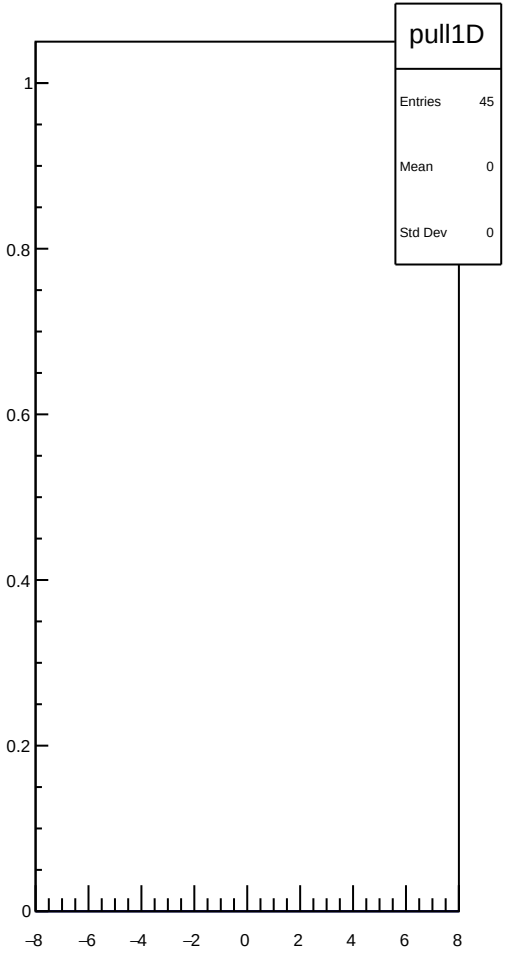

yield_bcm_an_ds_rms vs run
χ2 / ndf 3.486e+04 / 44
p0 0.2006 ± 0.0002184
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

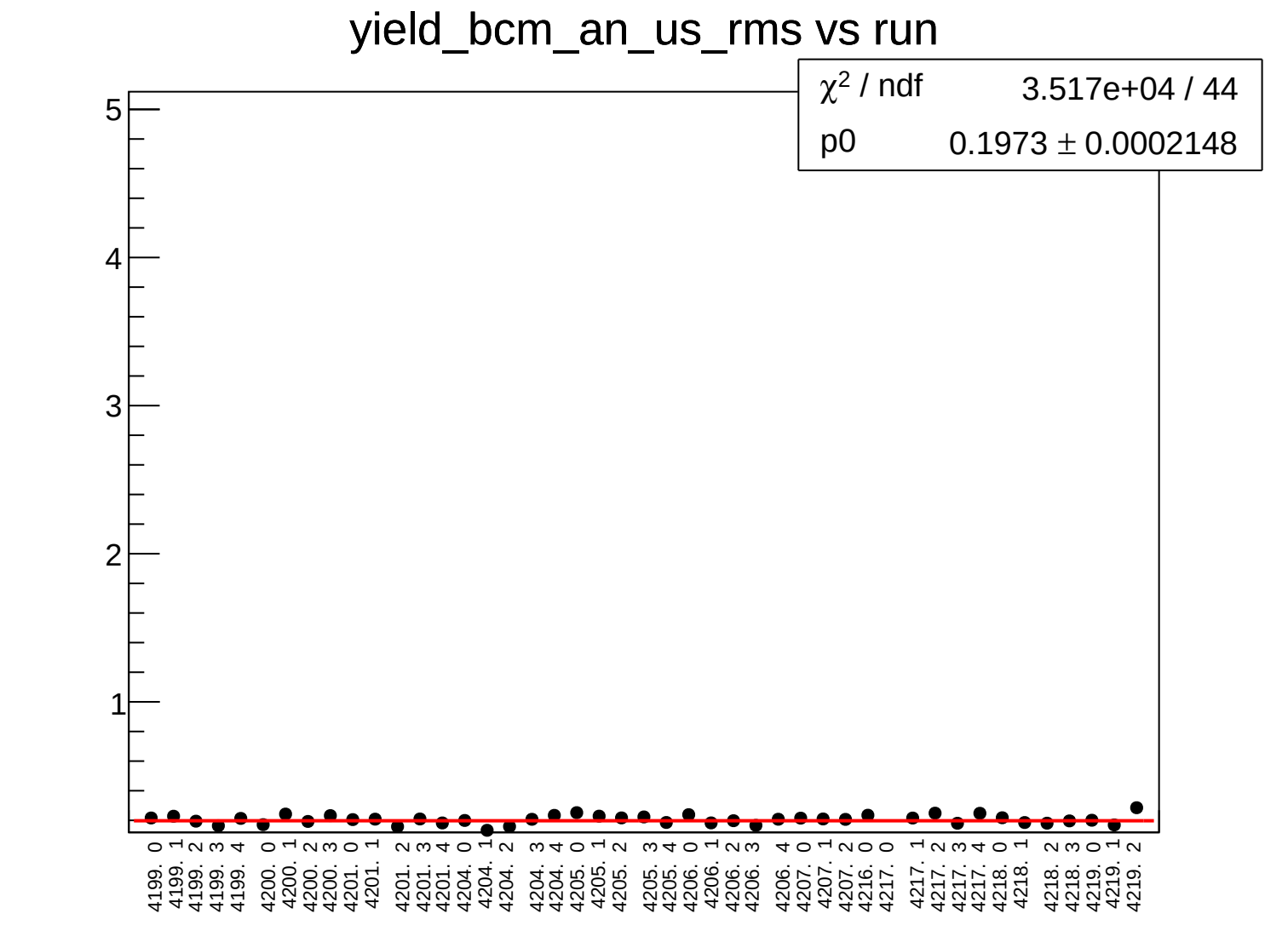

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.231e+05 / 44
p0 68.53 ± 0.000316
pull
Entries 45
Mean 338.3
Std Dev 310.8

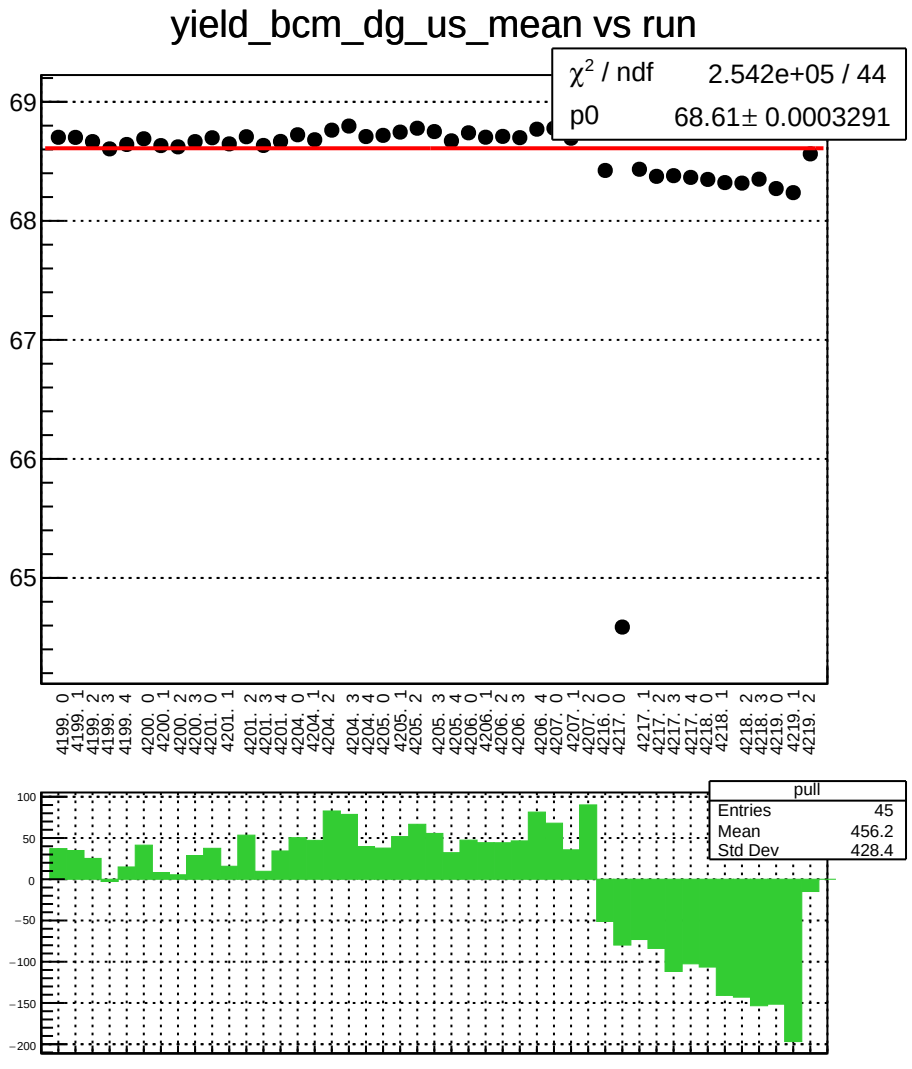

pull1D
Entries 45
Mean 6.448
Std Dev 0

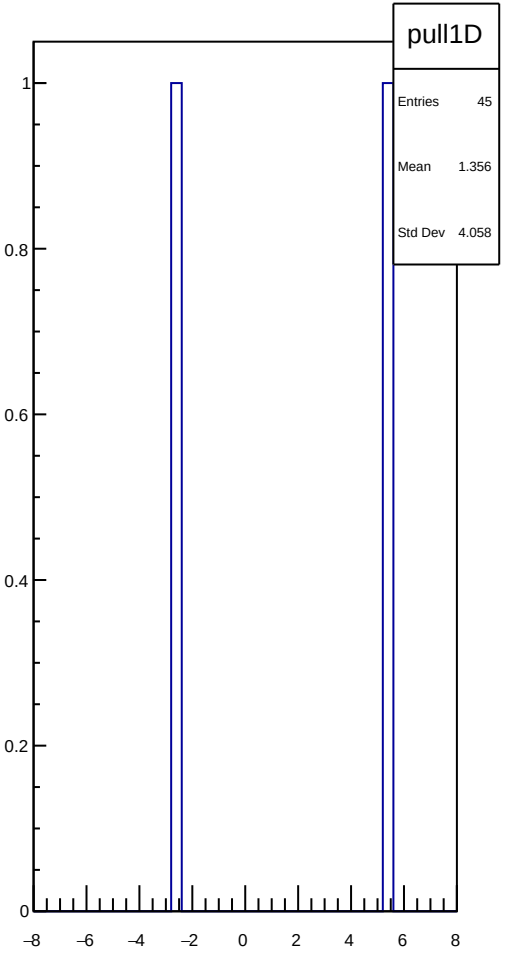

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.492e+04 / 44
p0 0.2052 ± 0.0002234
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

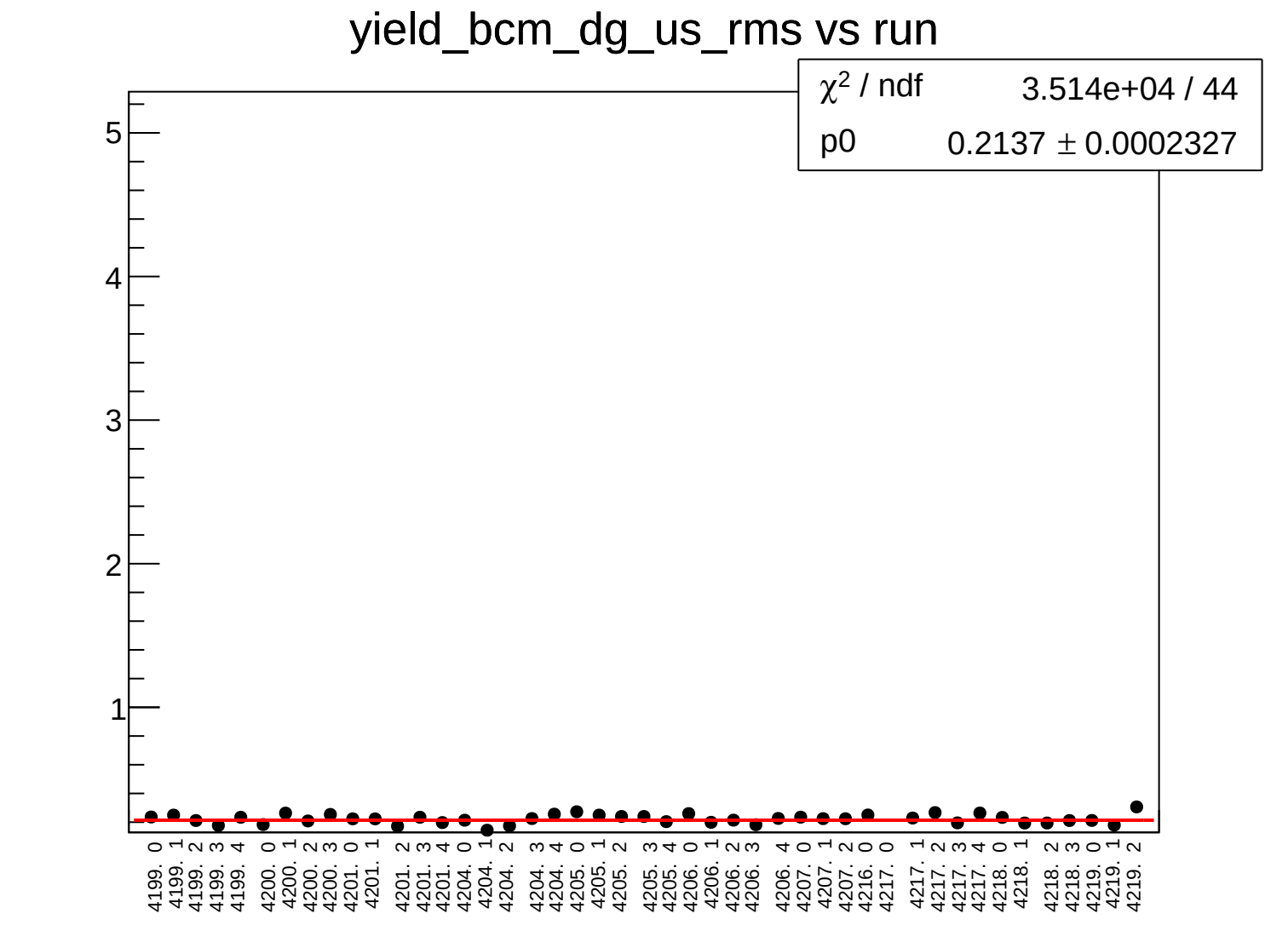

yield_bcm_an_us_mean vs run
χ² / ndf 3.331e+05 / 44
p0 67.1 ± 0.0003038
67.5
67
66.5
66
65.5
65
64.5
64
63.5
63
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 337.6
Std Dev 310.1
100
50
0
−50
−100
−150
−200

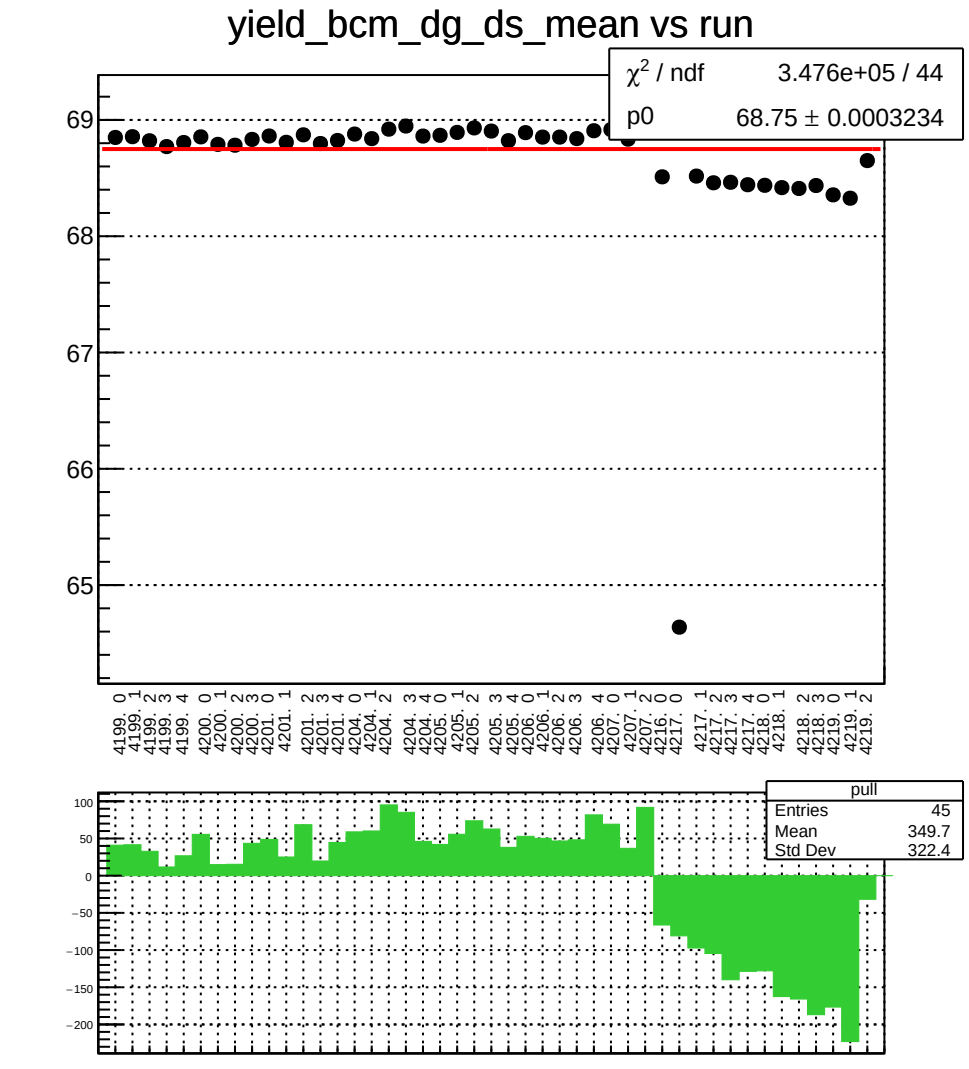

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

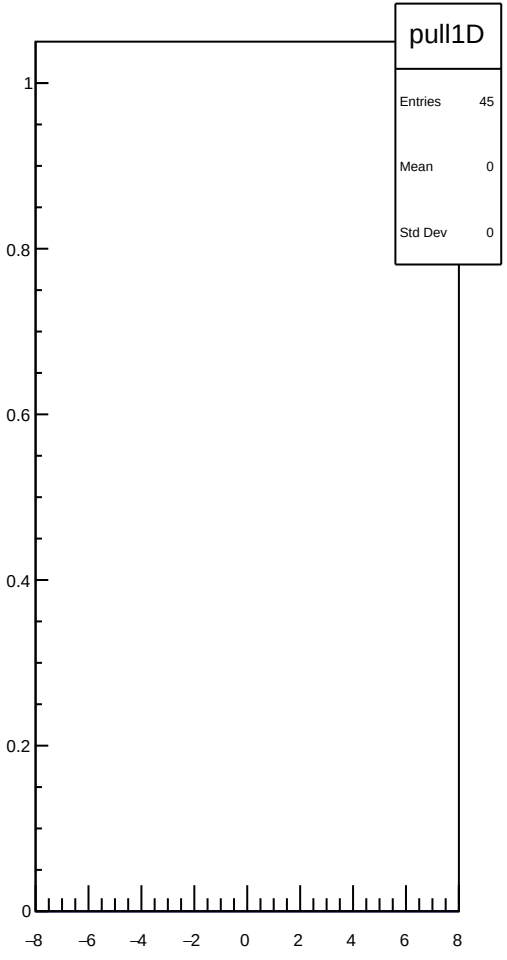

yield_bcm_an_us_rms vs run
χ² / ndf 3.517e+04 / 44
p0 0.1973 ± 0.0002148
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

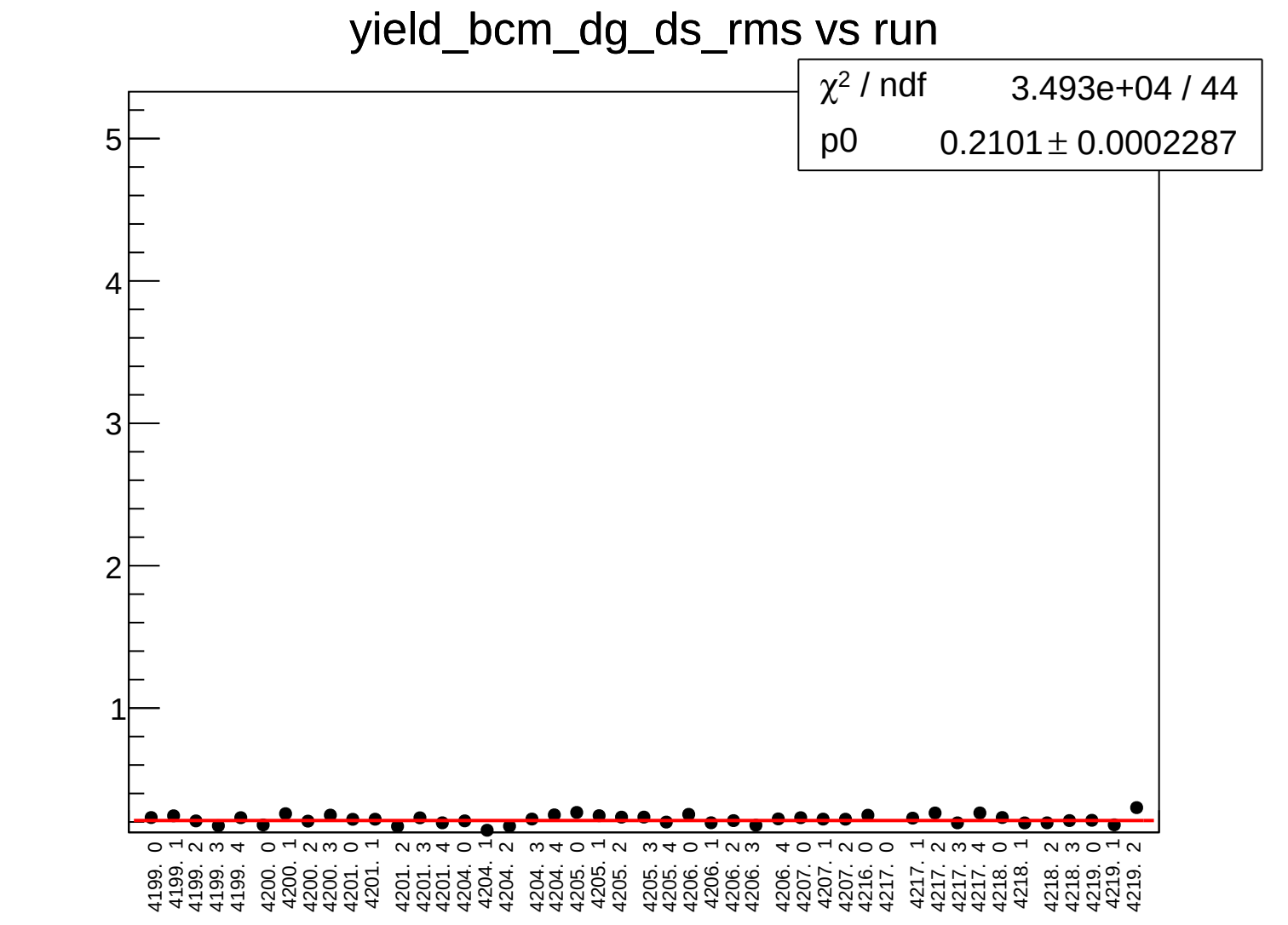

yield_bcm_dg_us_mean vs run
χ² / ndf 2.542e+05 / 44
p0 68.61± 0.0003291
69
68
67
66
65
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 456.2
Std Dev 428.4
100
50
0
−50
−100
−150
−200

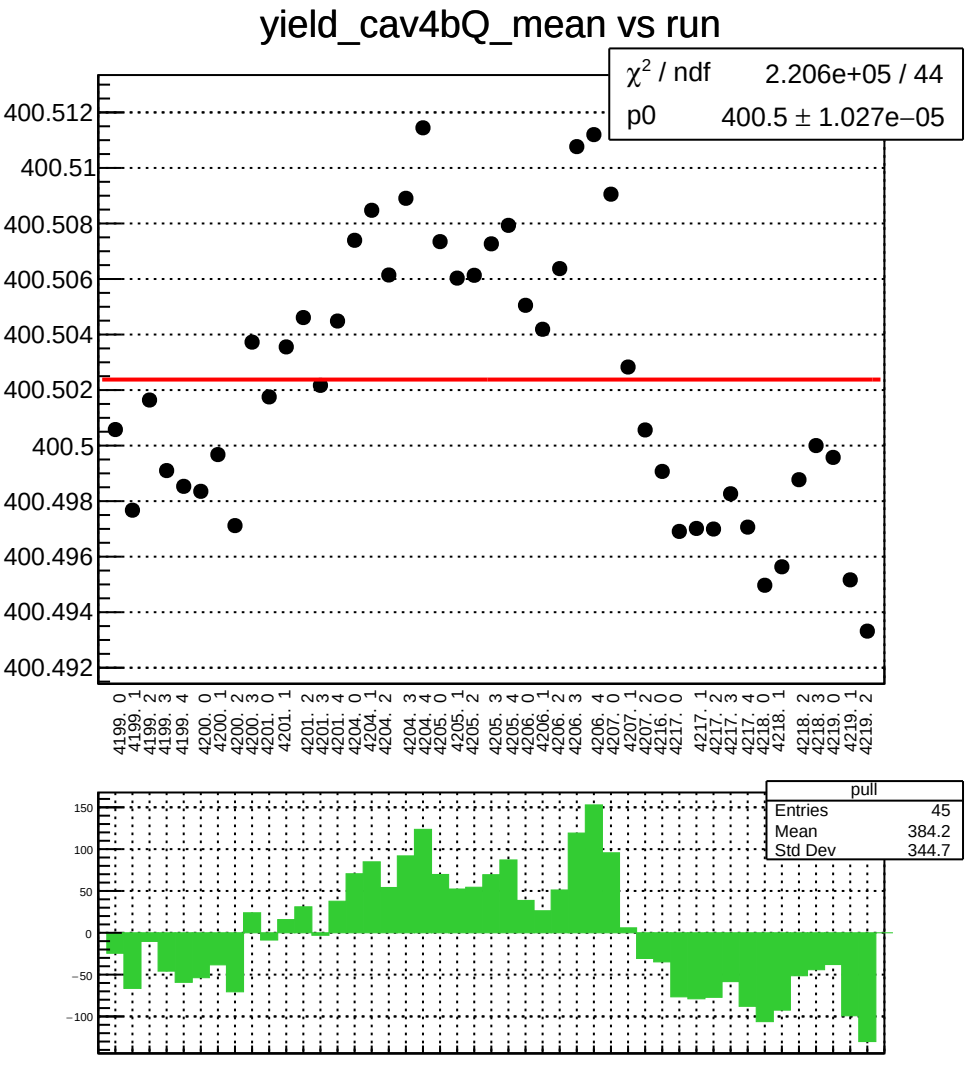

pull1D
Entries 45
Mean 1.356
Std Dev 4.058
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

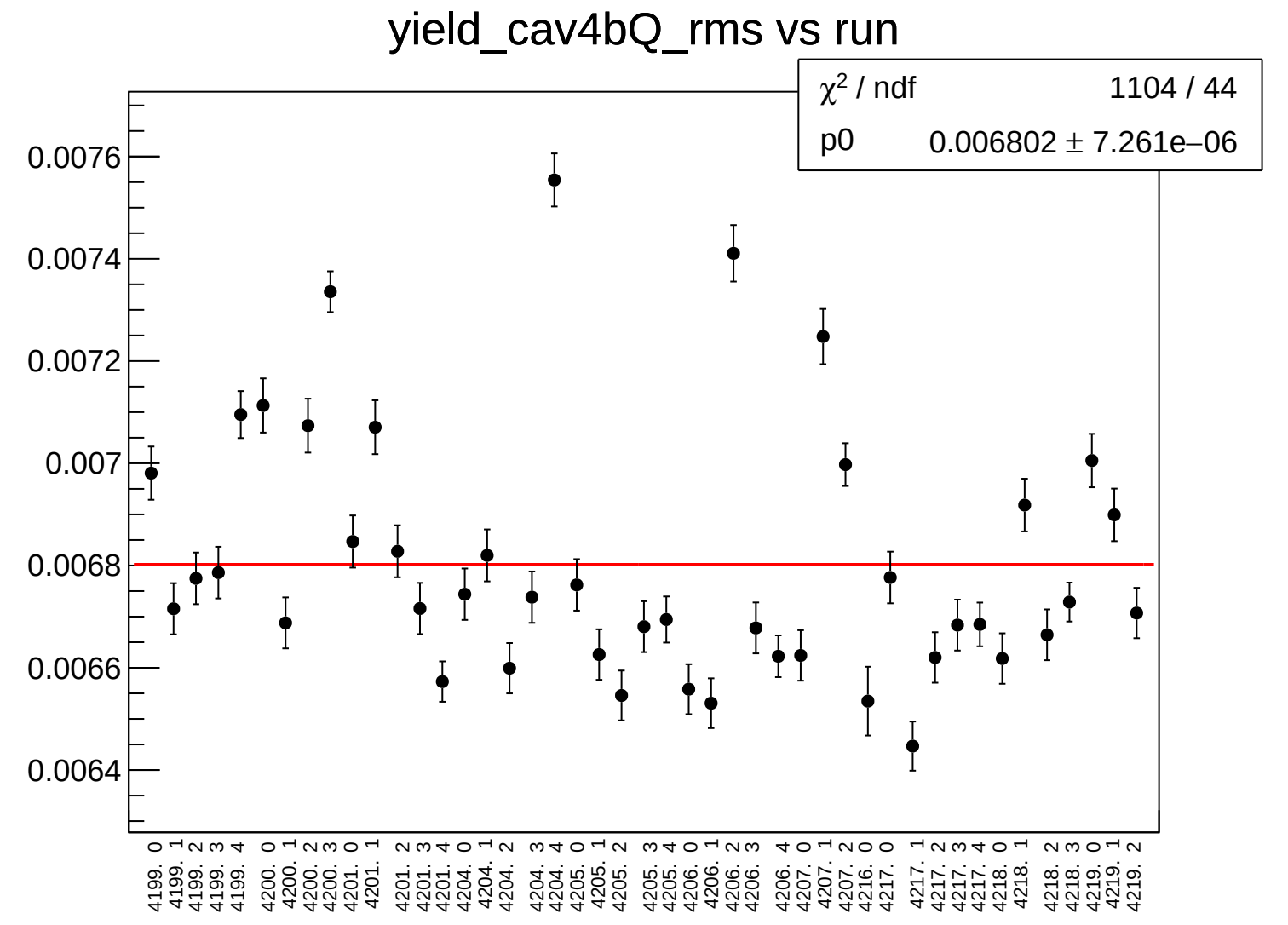

yield_bcm_dg_us_rms vs run
χ² / ndf 3.514e+04 / 44
p0 0.2137 ± 0.0002327
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

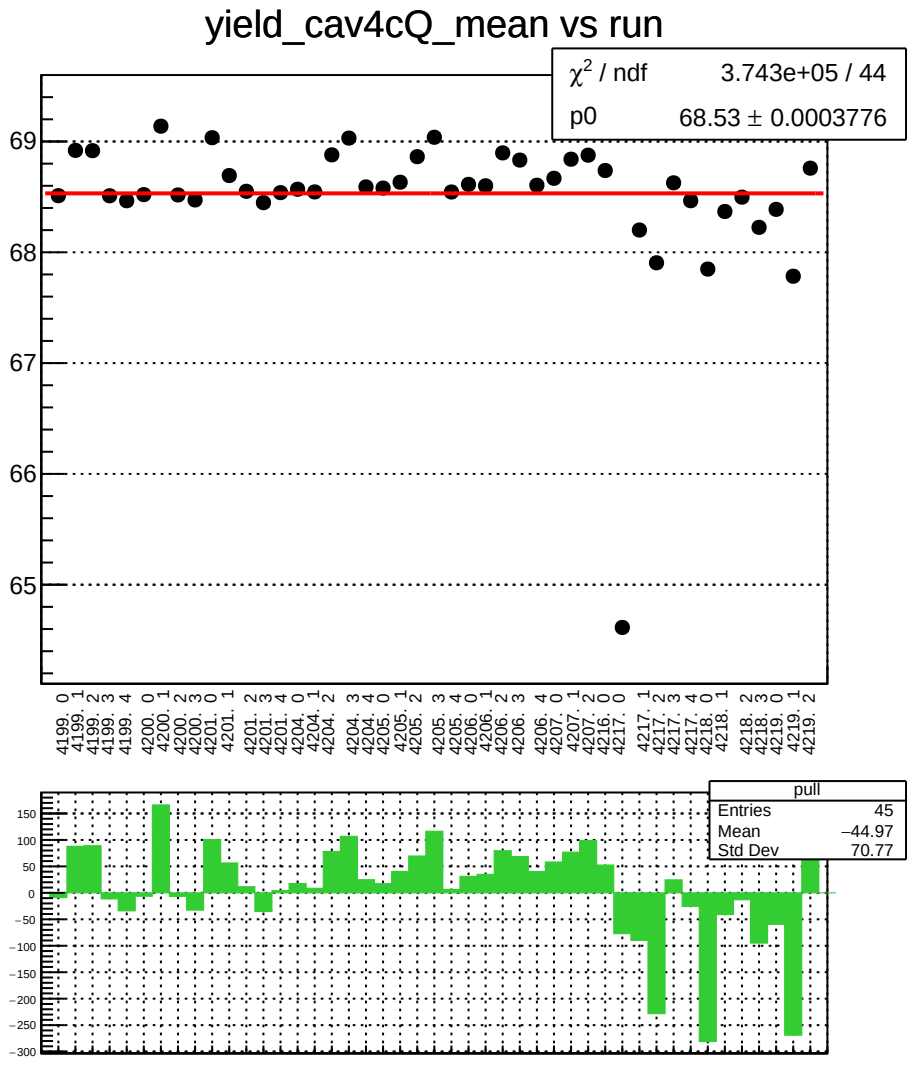

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.476e+05 / 44
p0 68.75 ± 0.0003234
69
68
67
66
65
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 349.7
Std Dev 322.4
100
50
0
−50
−100
−150
−200

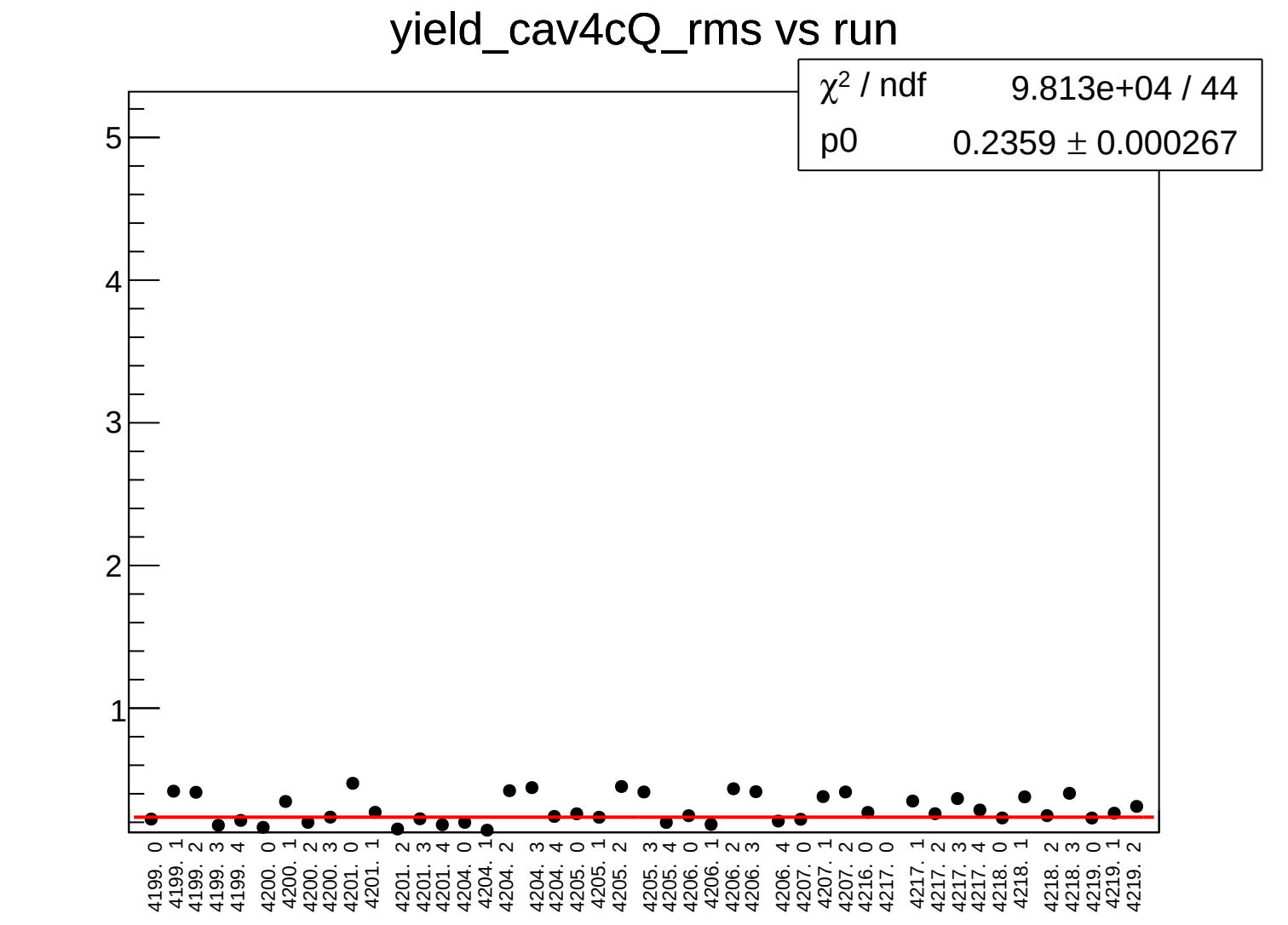

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

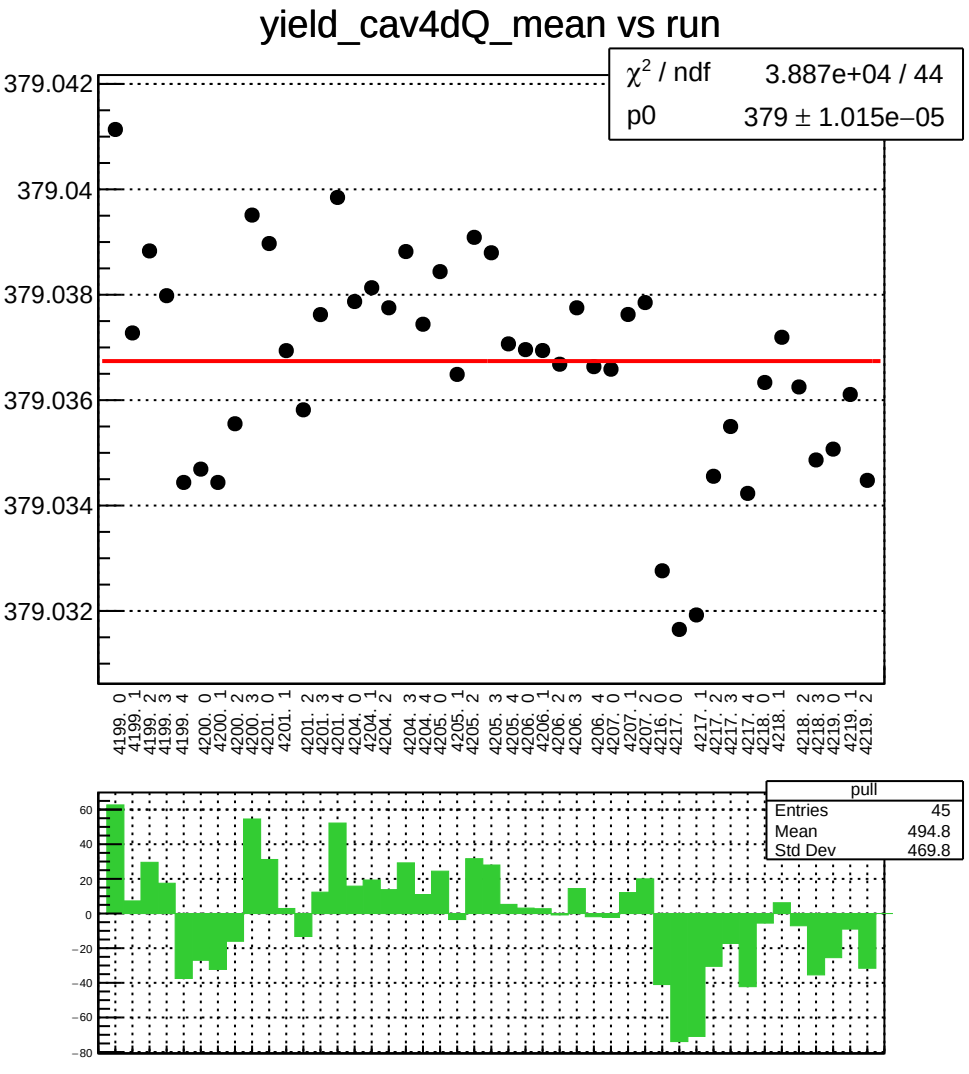

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.493e+04 / 44
p0 0.2101 ± 0.0002287
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

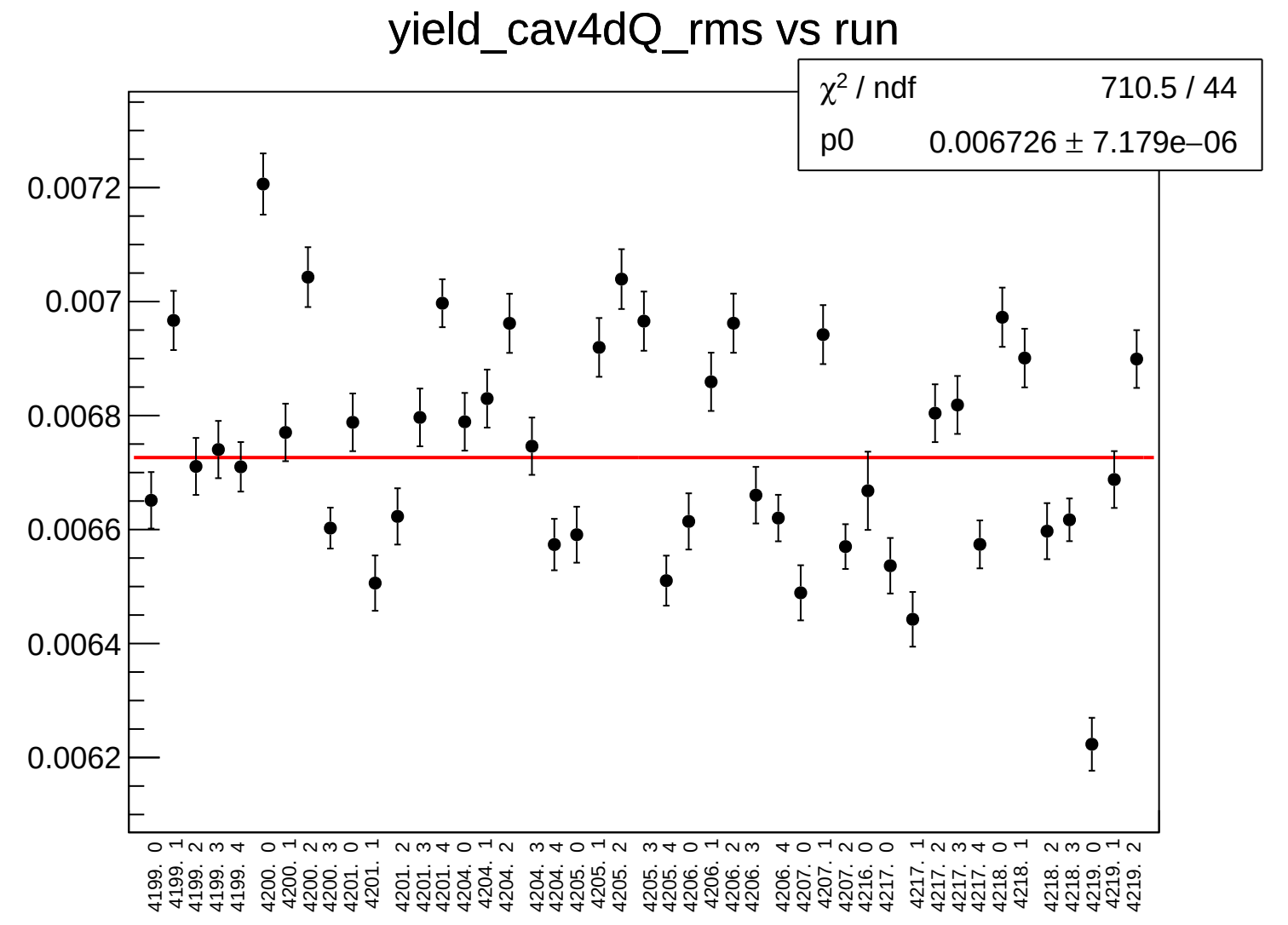

yield_cav4bQ_mean vs run
χ² / ndf 2.206e+05 / 44
p0 400.5 ± 1.027e−05
400.512
400.51
400.508
400.506
400.504
400.502
400.5
400.498
400.496
400.494
400.492
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 384.2
Std Dev 344.7
150
100
50
0
−50
−100
pull1D
Entries 45
Mean 1.479
Std Dev 4.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

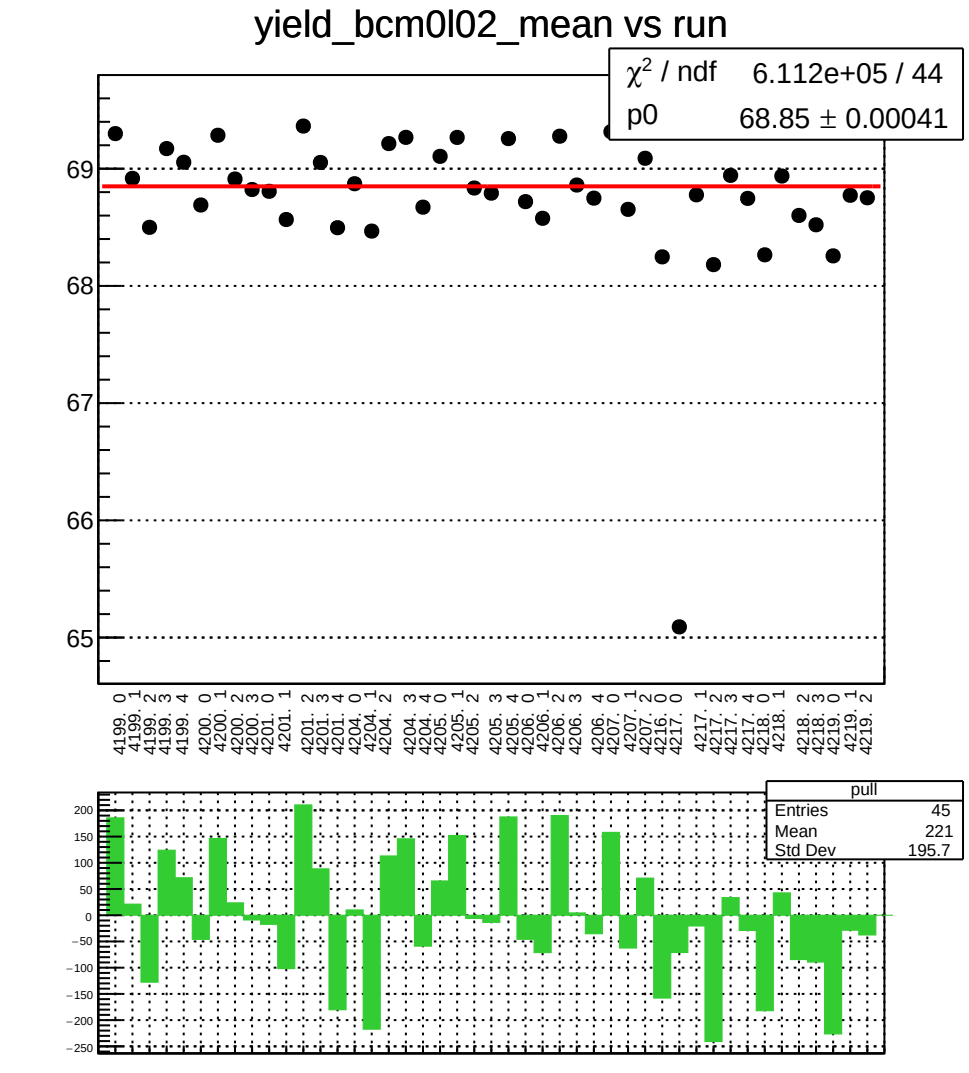

yield_cav4bQ_rms vs run
χ² / ndf 1104 / 44
p0 0.006802 ± 7.261e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

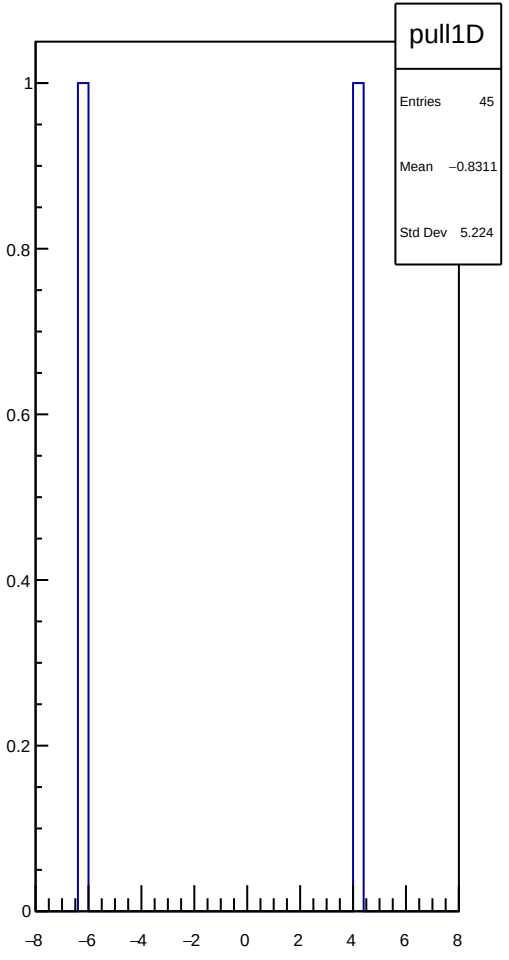

yield_cav4cQ_mean vs run
χ² / ndf 3.743e+05 / 44
p0 68.53 ± 0.0003776
69
68
67
66
65
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −44.97
Std Dev 70.77
150
100
50
0
−50
−100
−150
−200
−250
−300
pull1D
Entries 45
Mean −0.6058
Std Dev 6.066
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

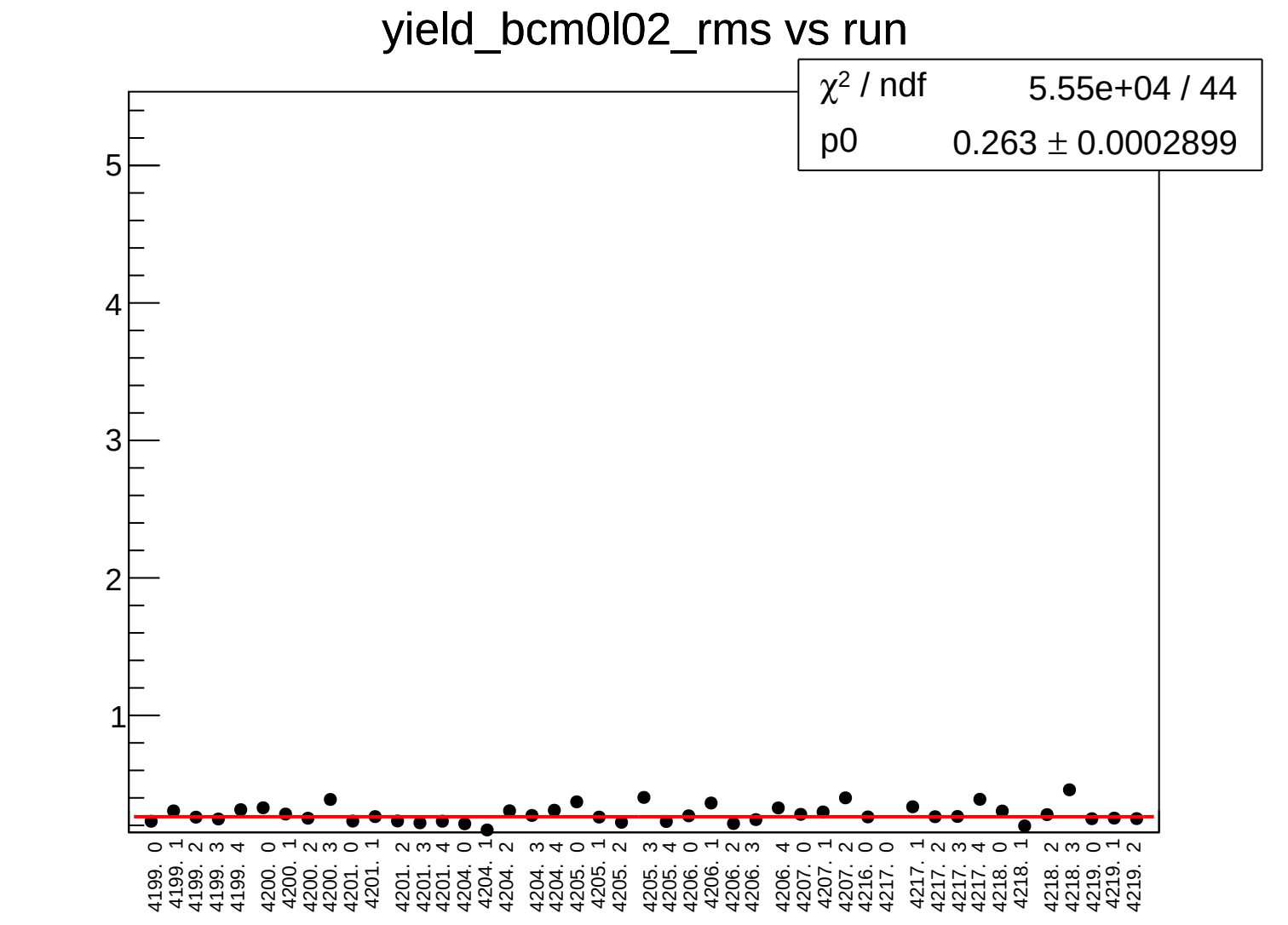

yield_cav4cQ_rms vs run
χ² / ndf 9.813e+04 / 44
p0 0.2359 ± 0.000267
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

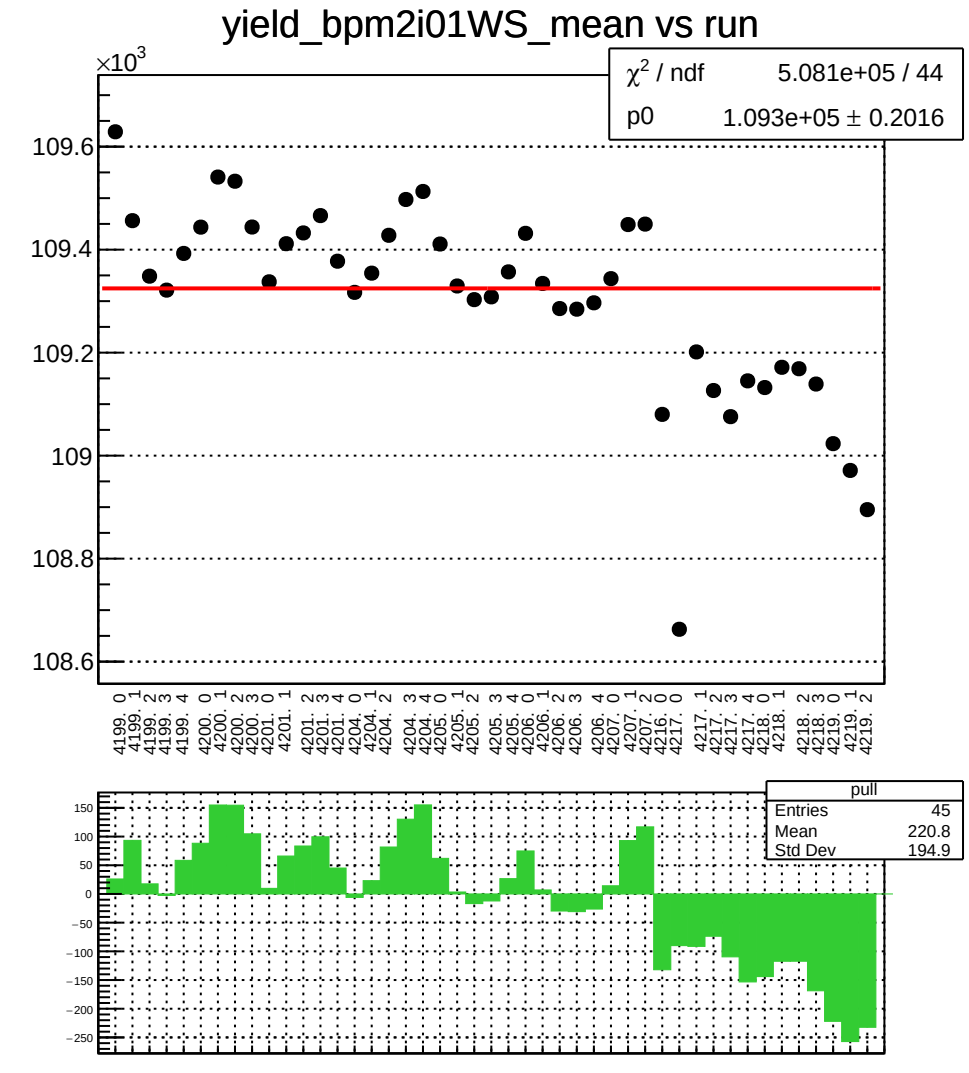

yield_cav4dQ_mean vs run
χ² / ndf 3.887e+04 / 44
p0 379 ± 1.015e−05
379.042
379.04
379.038
379.036
379.034
379.032
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 494.8
Std Dev 469.8
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 0.5497
Std Dev 4.498
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

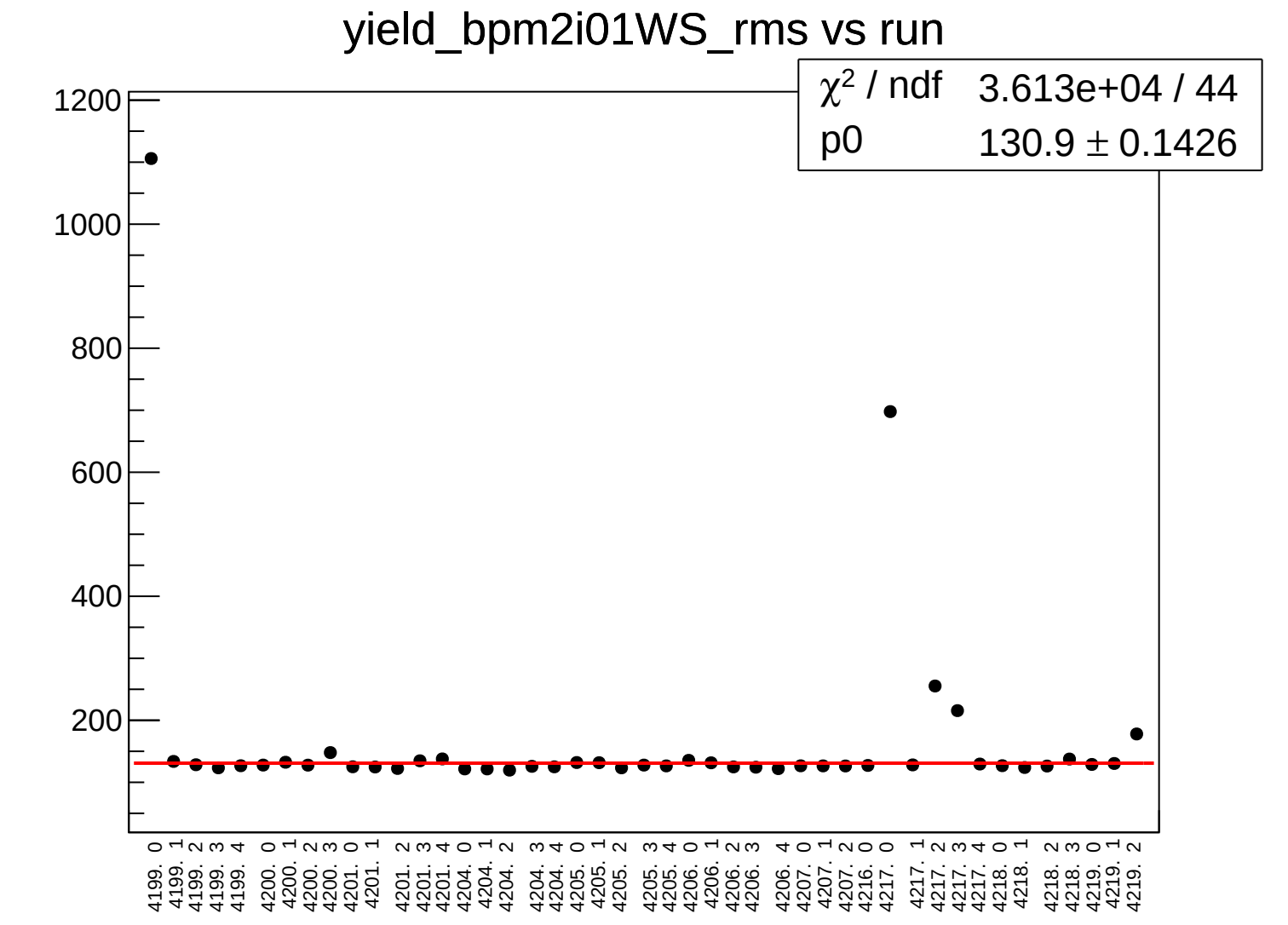

yield_cav4dQ_rms vs run
χ² / ndf 710.5 / 44
p0 0.006726 ± 7.179e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

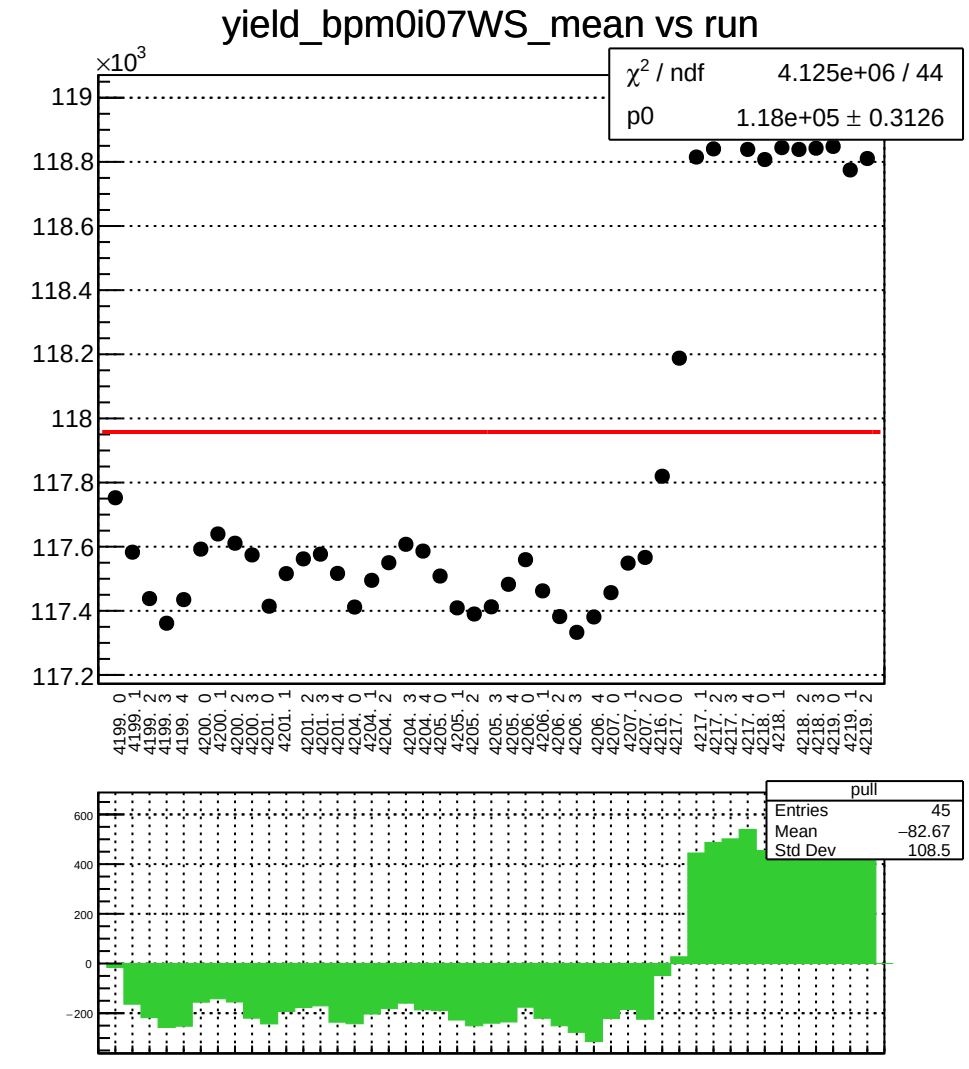

yield_bcm0l02_mean vs run
χ² / ndf 6.112e+05 / 44
p0 68.85 ± 0.00041
pull
Entries 45
Mean 221
Std Dev 195.7

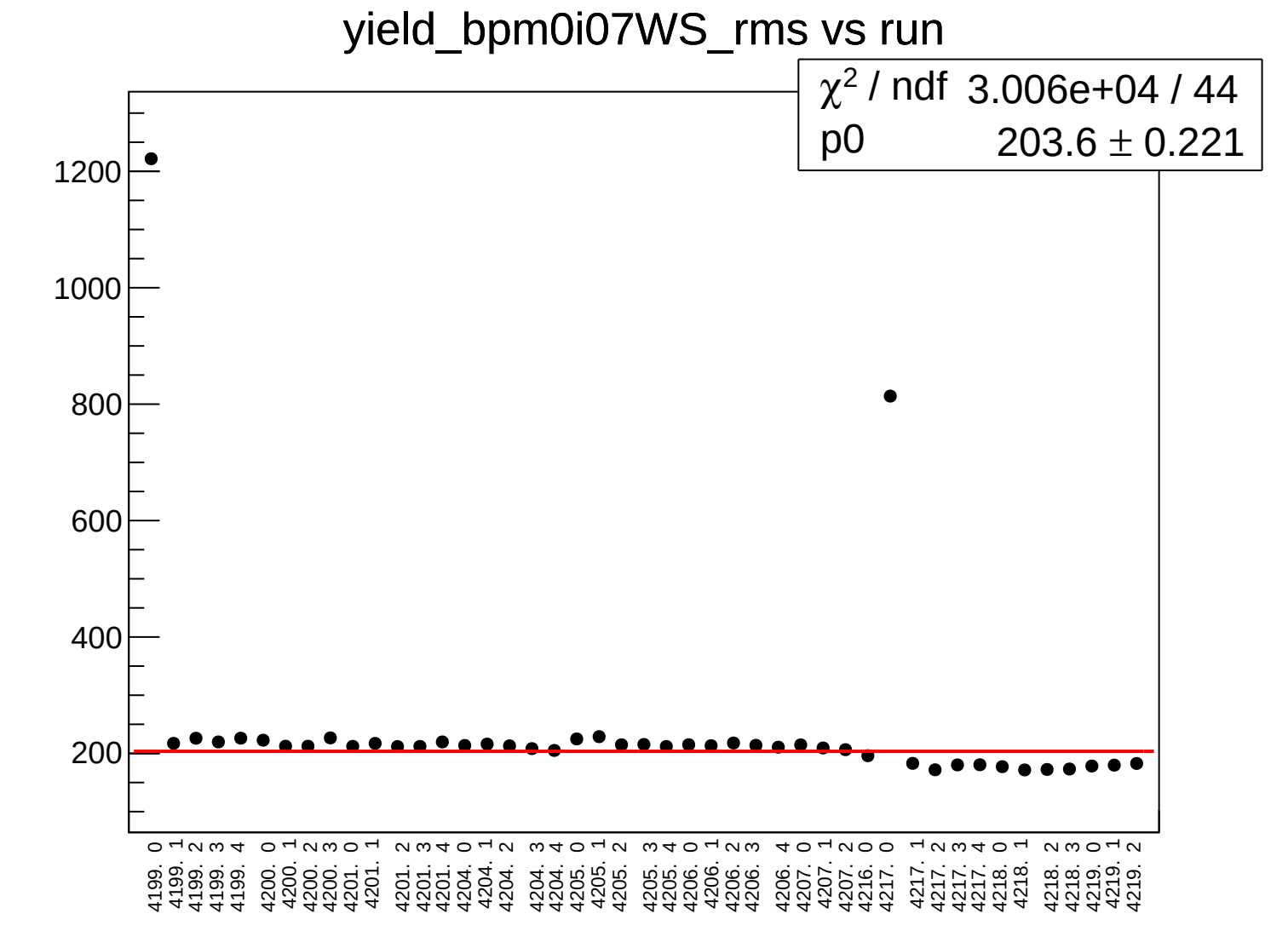

pull1D
Entries 45
Mean −0.8311
Std Dev 5.224

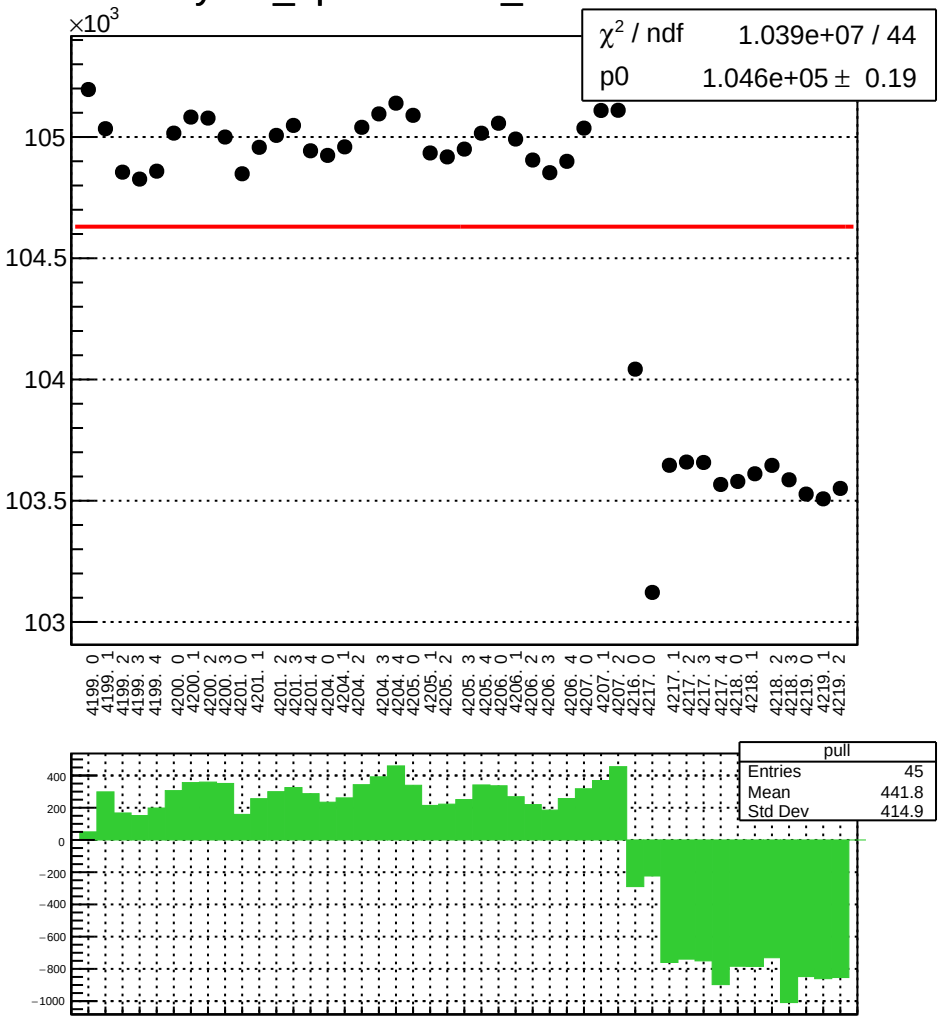

yield_bcm0l02_rms vs run
χ² / ndf 5.55e+04 / 44
p0 0.263 ± 0.0002899
5
4
3
2
1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

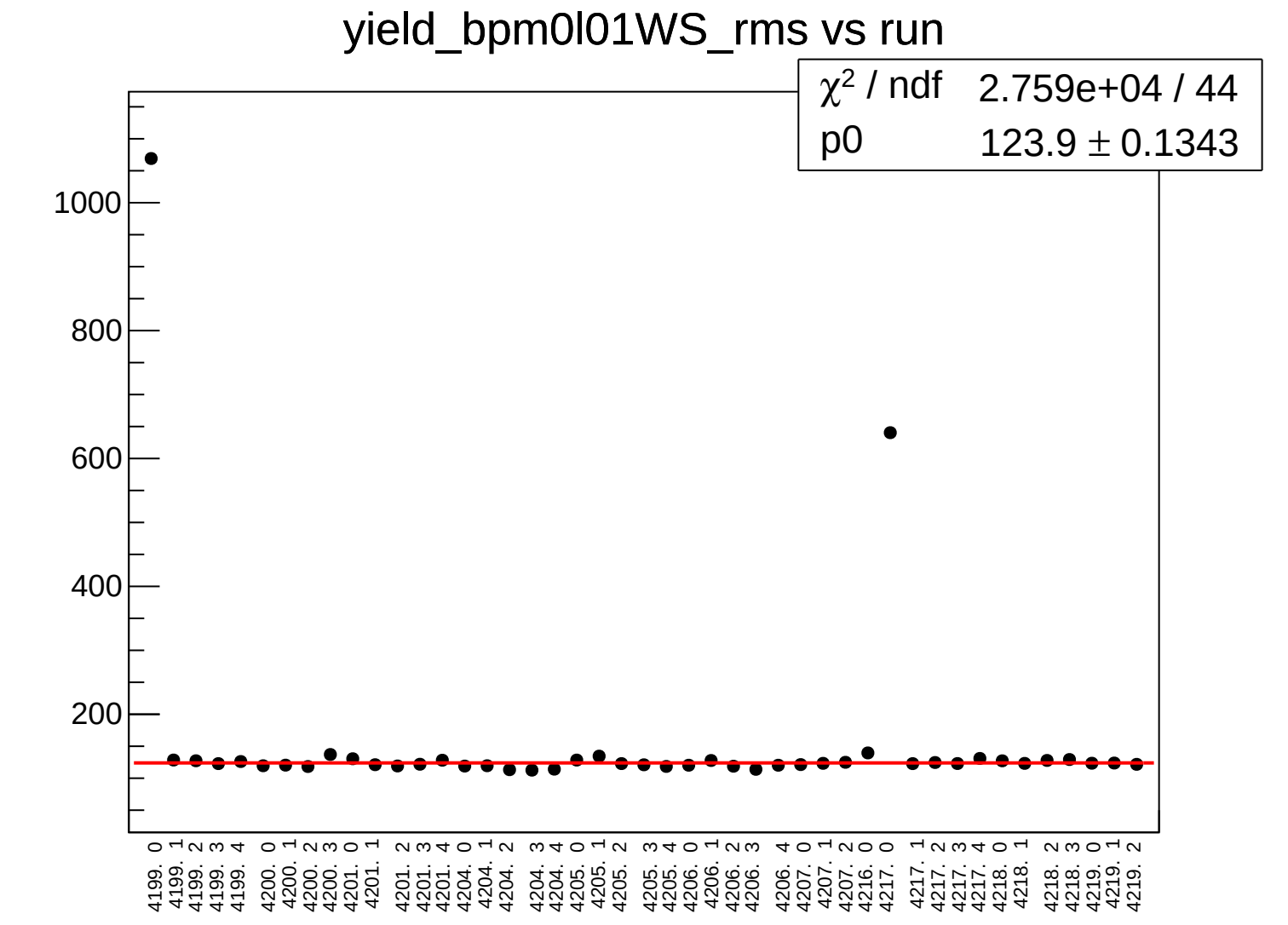

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.081e+05 / 44
p0 1.093e+05 ± 0.2016
109.6
109.4
109.2
109
108.8
108.6
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 220.8
Std Dev 194.9
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 45
Mean 0.4471
Std Dev 5.04
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

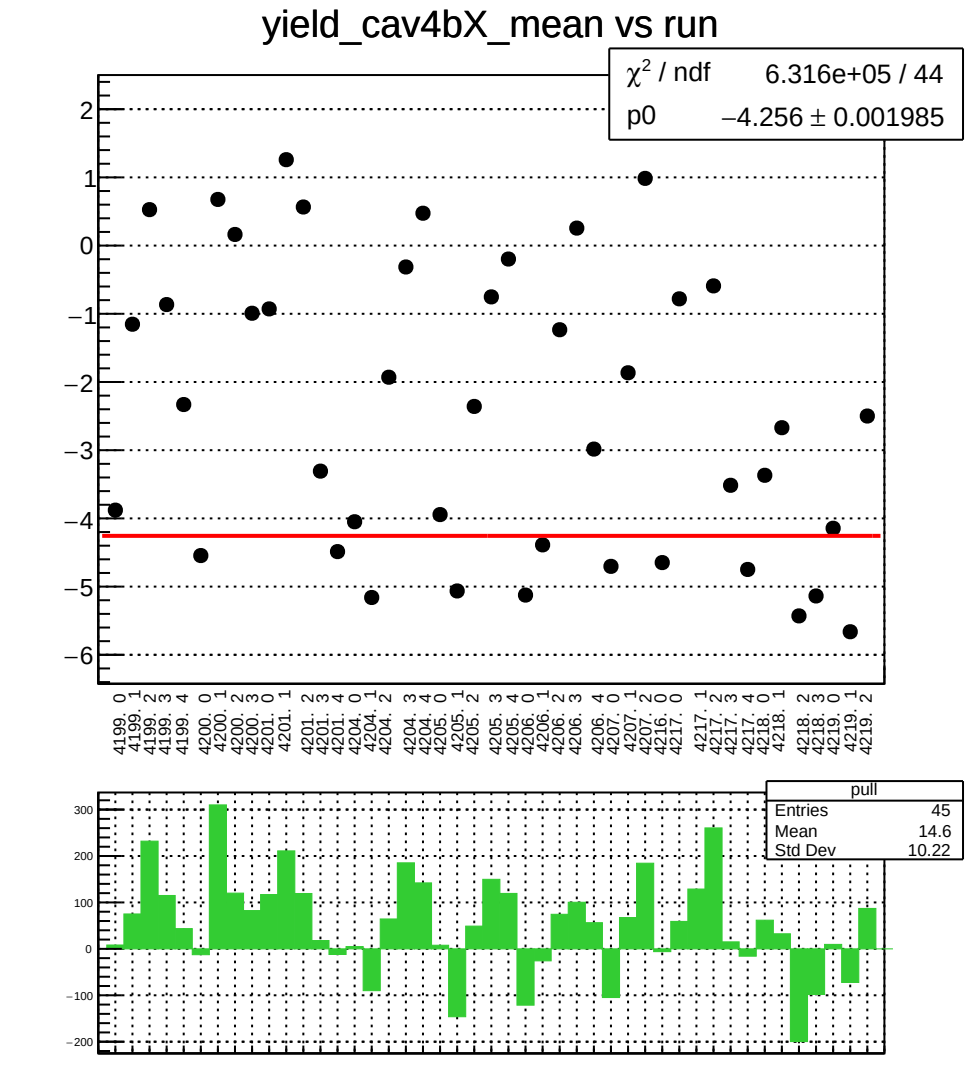

yield_bpm2i01WS_rms vs run
χ² / ndf 3.613e+04 / 44
p0 130.9 ± 0.1426
1200
1000
800
600
400
200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

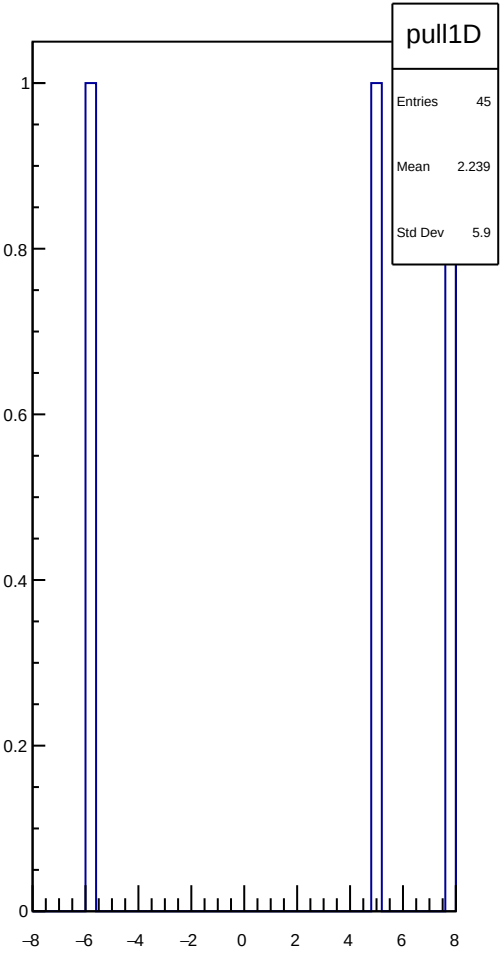

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.125e+06 / 44
p0 1.18e+05 ± 0.3126
119
118.8
118.6
118.4
118.2
118
117.8
117.6
117.4
117.2
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −82.67
Std Dev 108.5
600
400
200
0
−200
pull1D
Entries 45
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 3.006e+04 / 44
p0 203.6 ± 0.221
1200
1000
800
600
400
200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

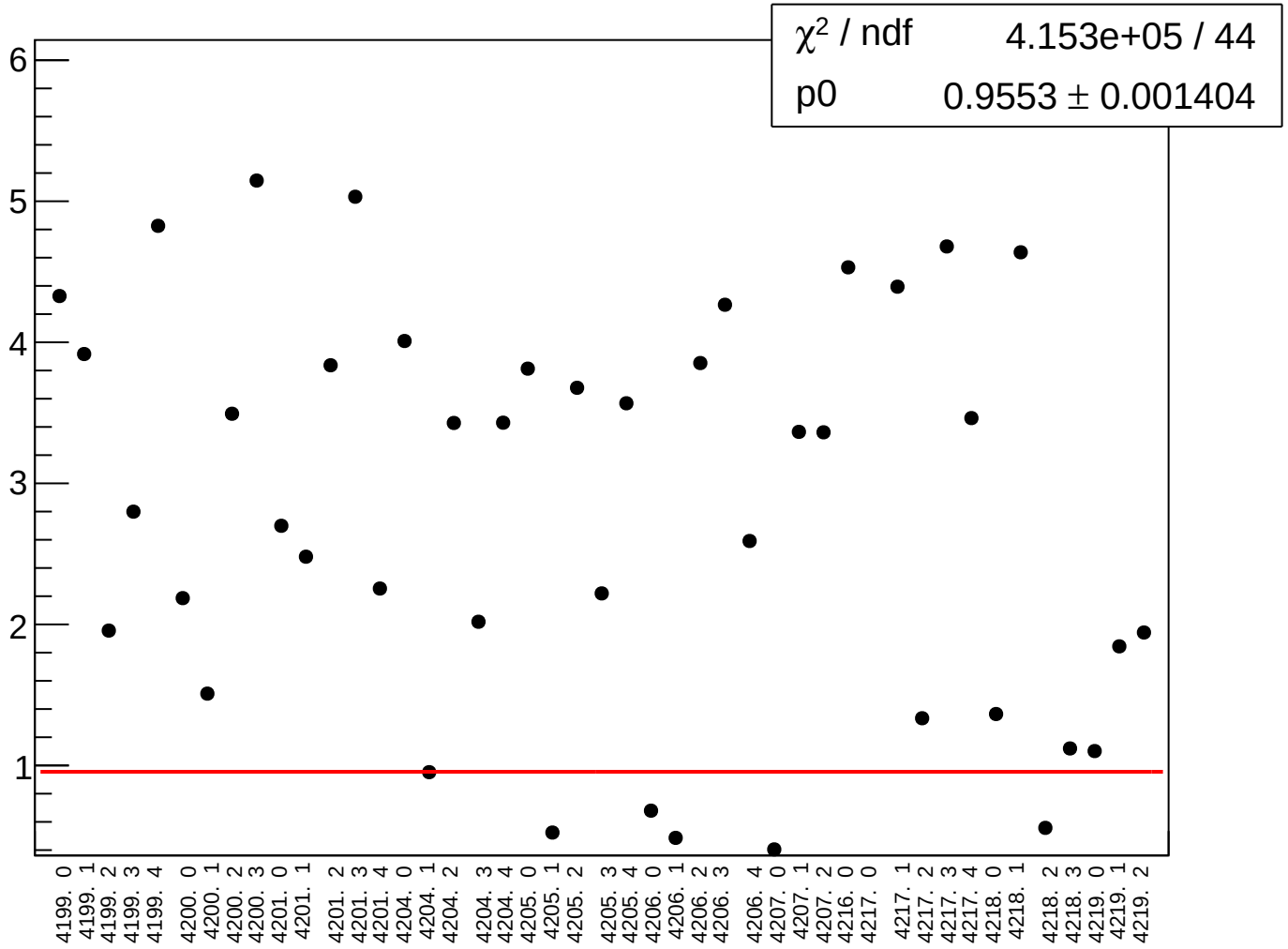

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.039e+07 / 44
p0 1.046e+05 ± 0.19
105
104.5
104
103.5
103
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 441.8
Std Dev 414.9
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

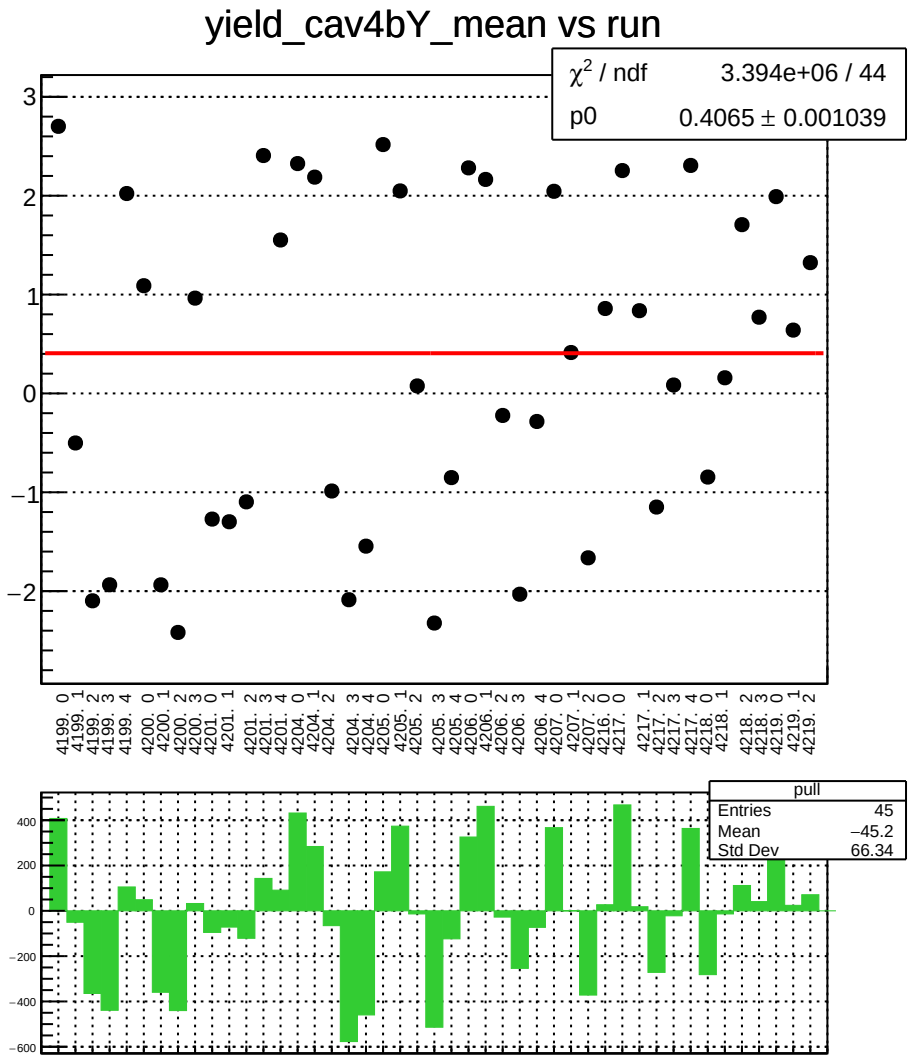

yield_bpm0l01WS_rms vs run
χ² / ndf 2.759e+04 / 44
p0 123.9 ± 0.1343
1000
800
600
400
200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

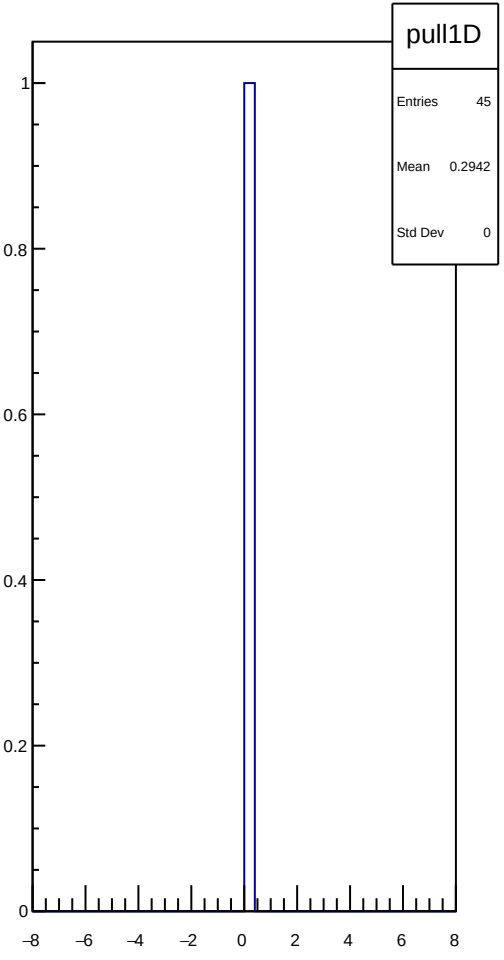

yield_cav4bX_mean vs run
χ² / ndf 6.316e+05 / 44
p0 −4.256 ± 0.001985
pull
Entries 45
Mean 14.6
Std Dev 10.22

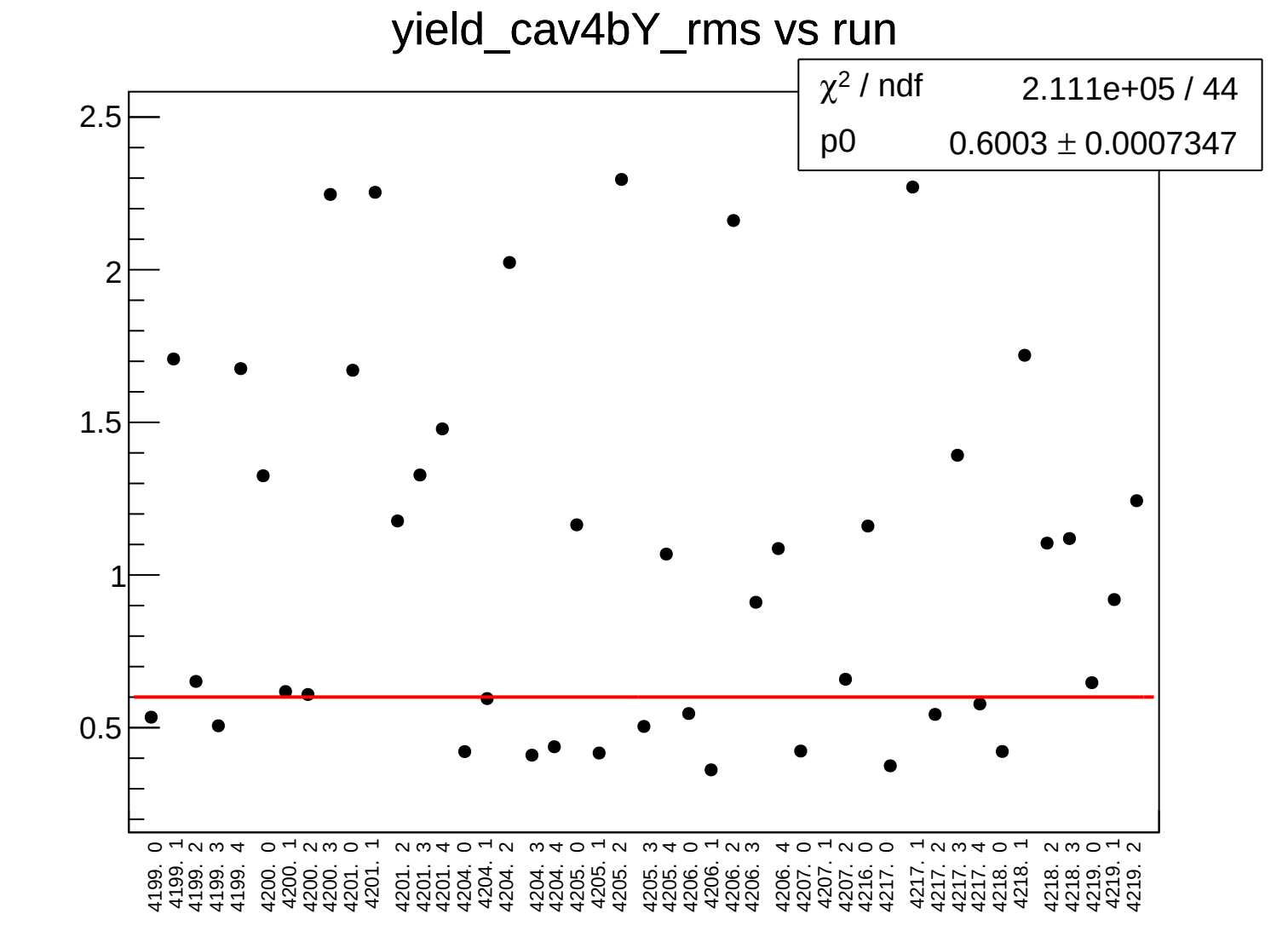

pull1D
Entries 45
Mean 2.239
Std Dev 5.9

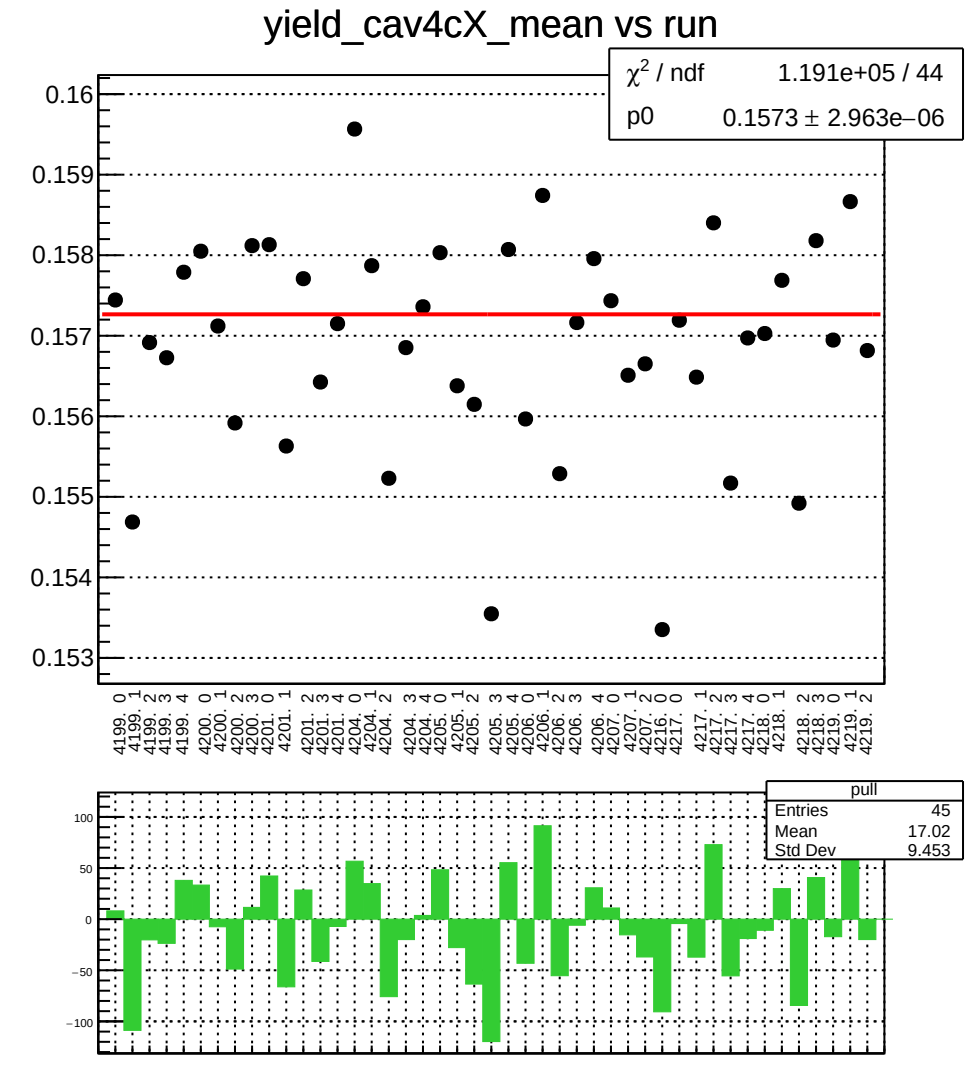
yield_cav4bX_rms vs run

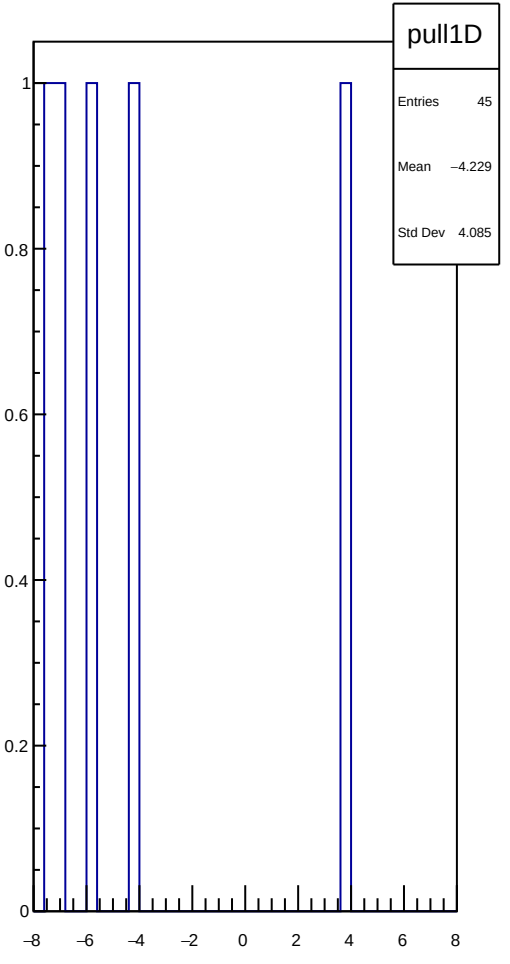


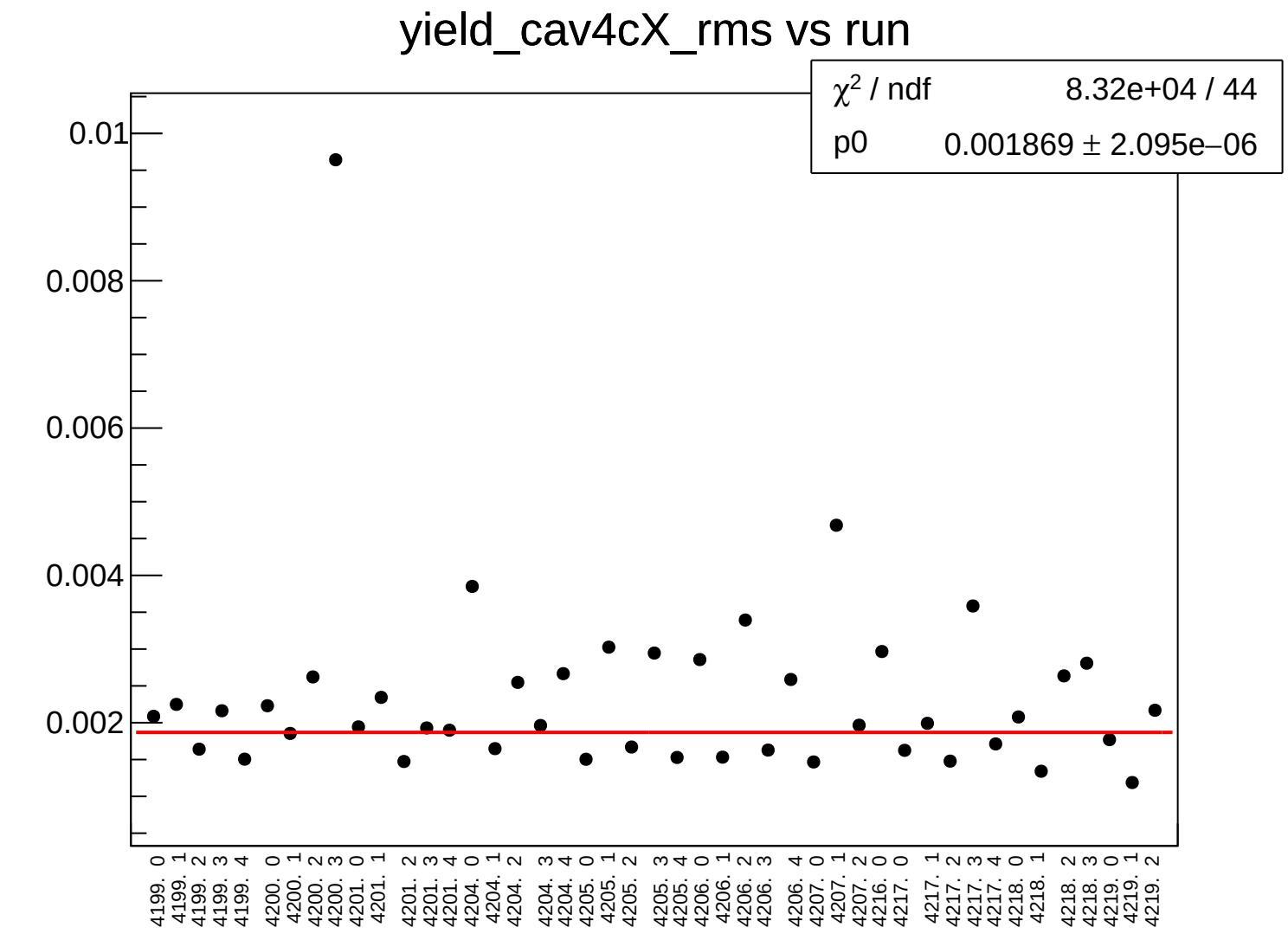

yield_cav4bY_mean vs run
χ² / ndf 3.394e+06 / 44
p0 0.4065 ± 0.001039
pull
Entries 45
Mean −45.2
Std Dev 66.34

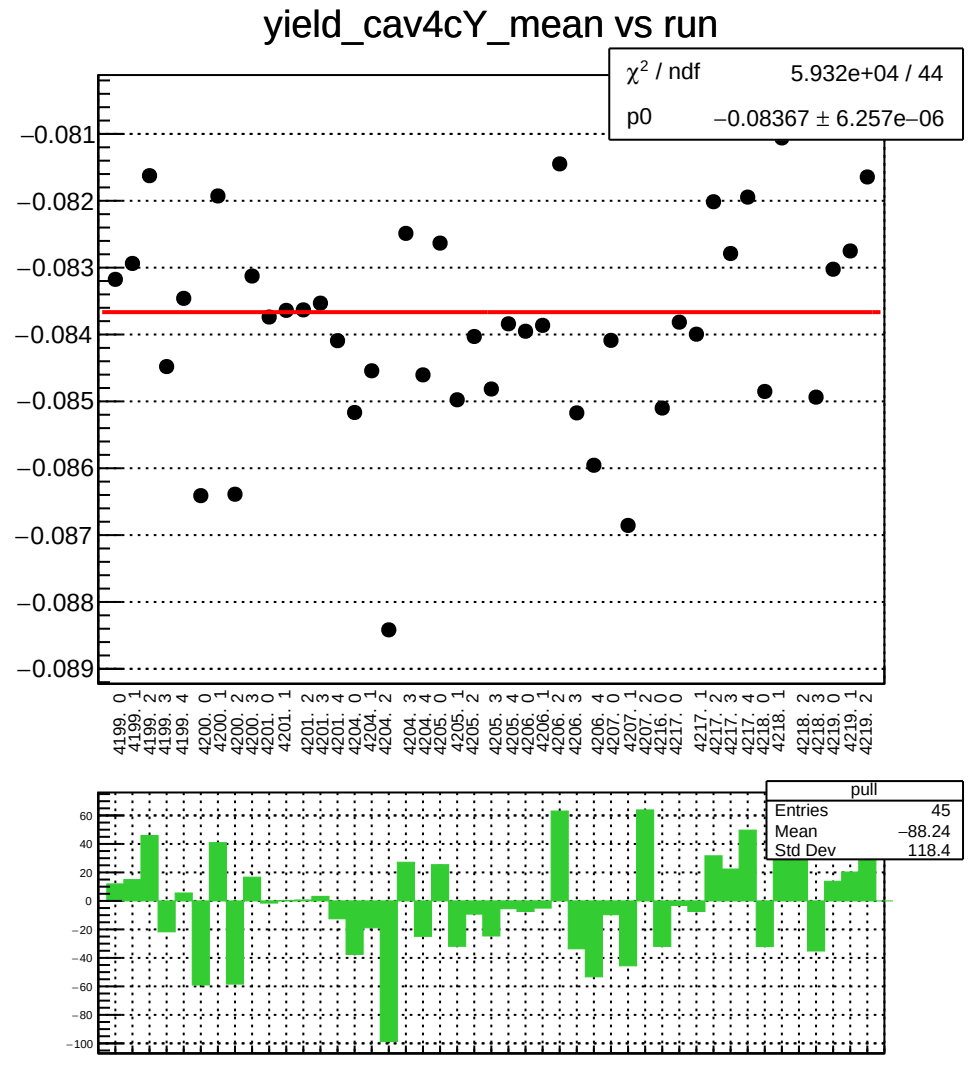

pull1D
Entries 45
Mean 0.2942
Std Dev 0

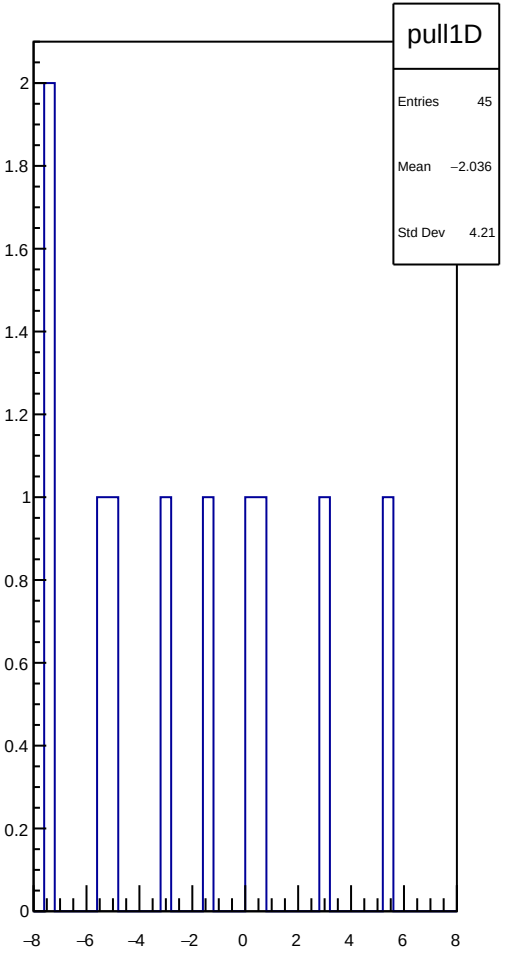

yield_cav4bY_rms vs run
χ² / ndf 2.111e+05 / 44
p0 0.6003 ± 0.0007347
2.5
2
1.5
1
0.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

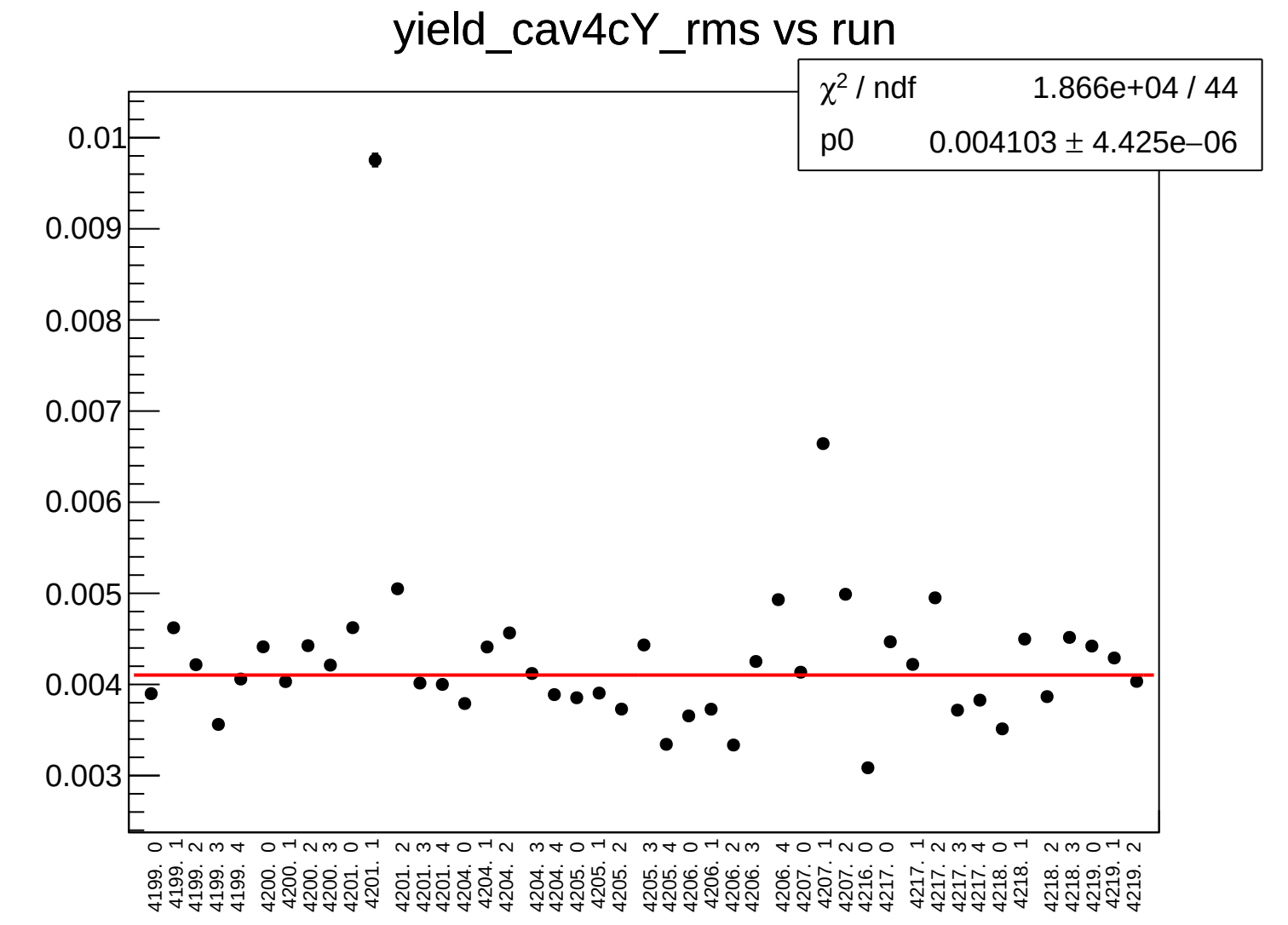

yield_cav4cX_mean vs run
χ² / ndf 1.191e+05 / 44
p0 0.1573 ± 2.963e−06
0.16
0.159
0.158
0.157
0.156
0.155
0.154
0.153
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 17.02
Std Dev 9.453
100
50
0
−50
−100

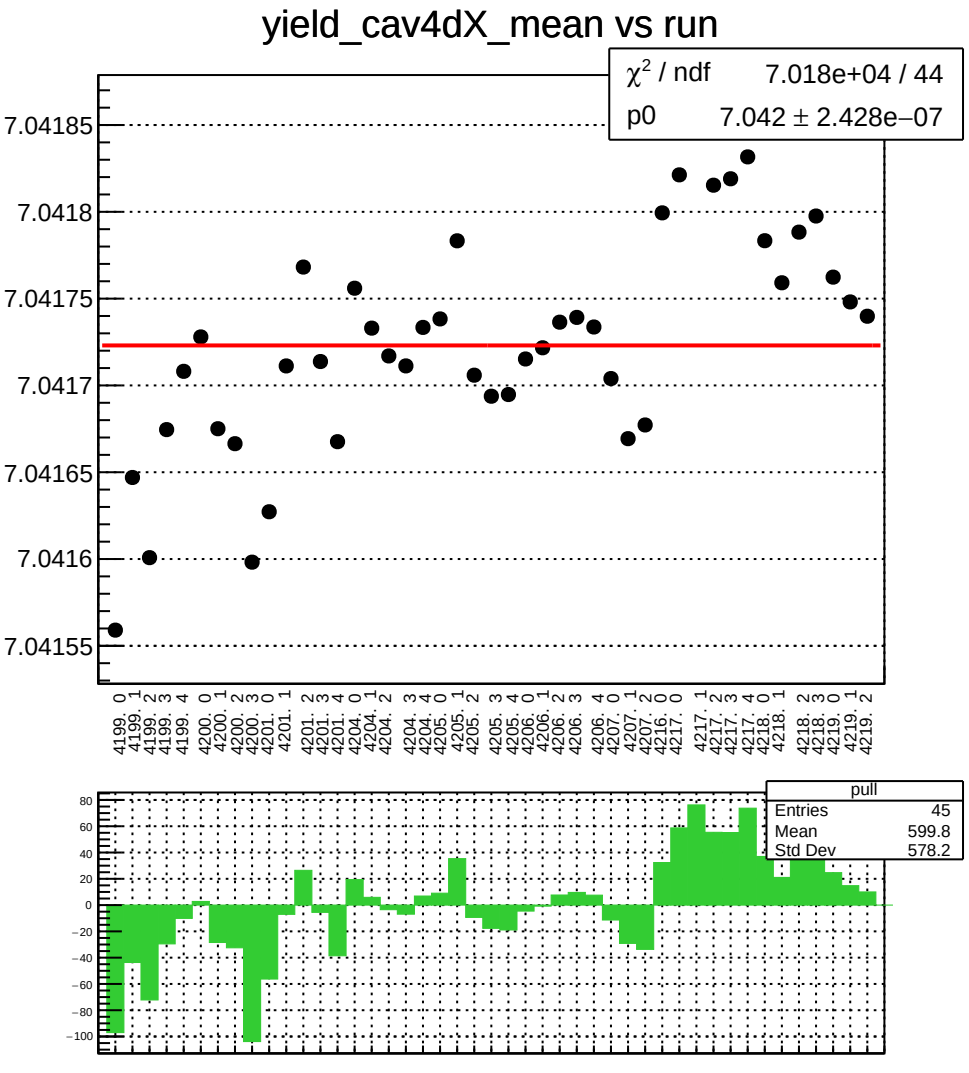

pull1D
Entries 45
Mean −4.229
Std Dev 4.085
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

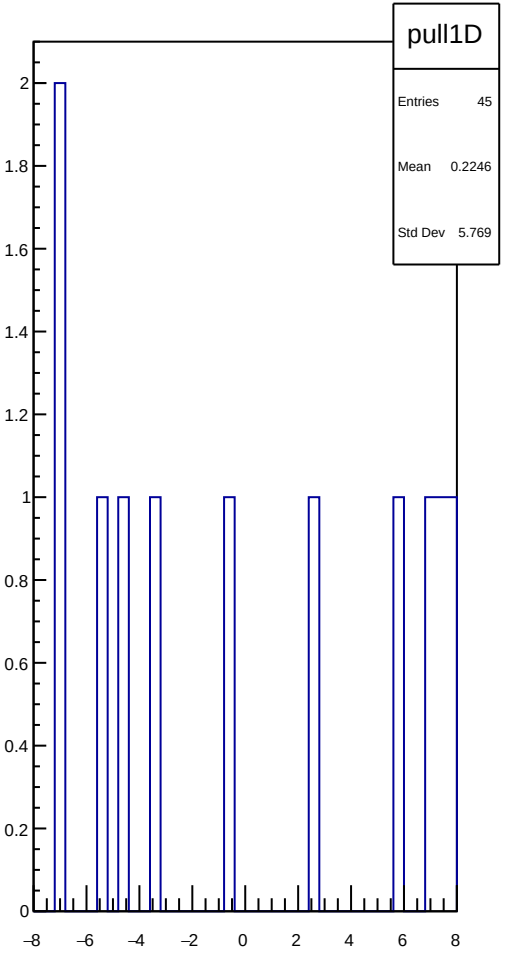

yield_cav4cX_rms vs run
χ² / ndf 8.32e+04 / 44
p0 0.001869 ± 2.095e−06
0.01
0.008
0.006
0.004
0.002
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

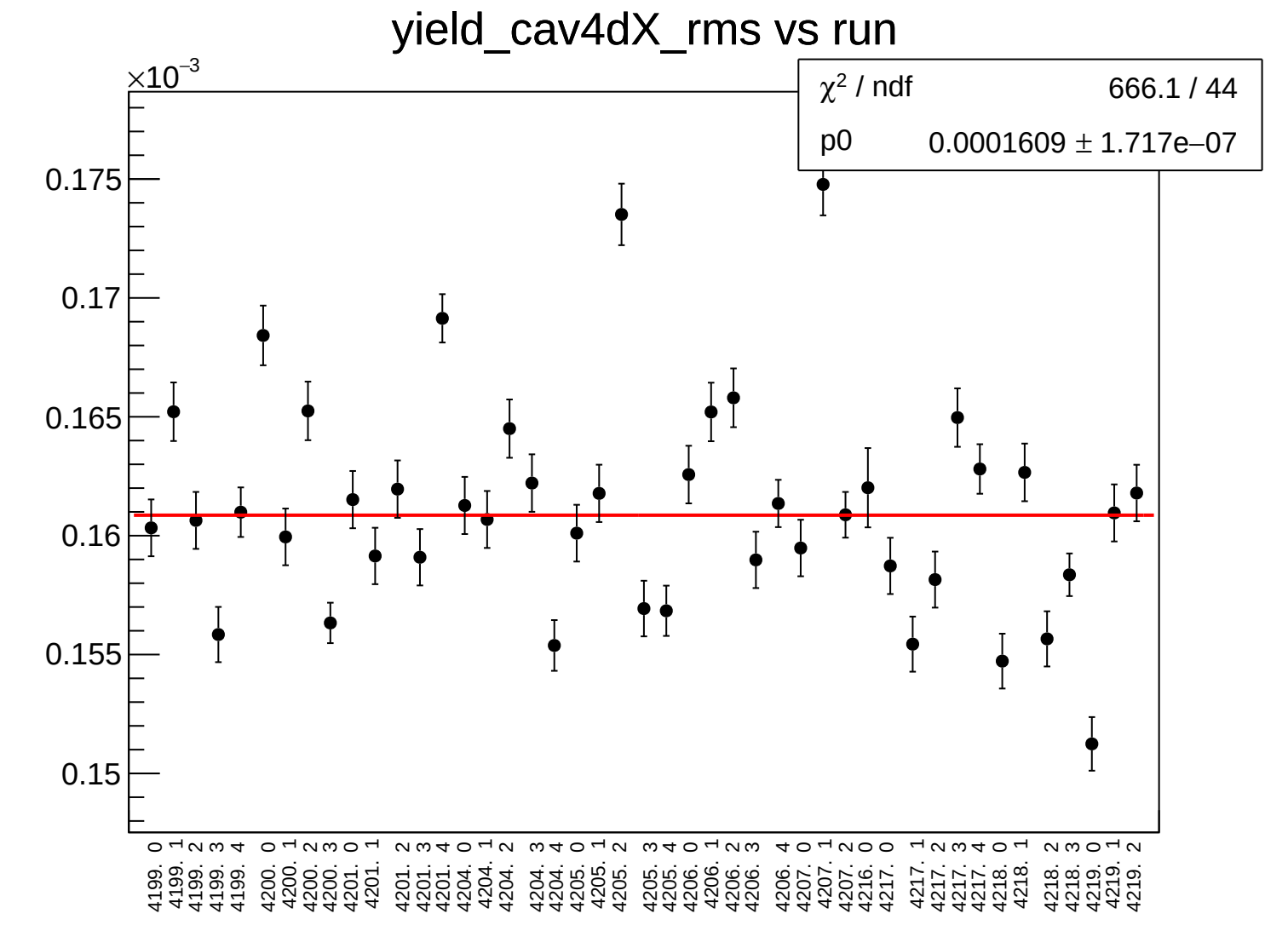

yield_cav4cY_mean vs run
χ² / ndf 5.932e+04 / 44
p0 −0.08367 ± 6.257e−06
−0.081
−0.082
−0.083
−0.084
−0.085
−0.086
−0.087
−0.088
−0.089
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −88.24
Std Dev 118.4
60
40
20
0
−20
−40
−60
−80
−100

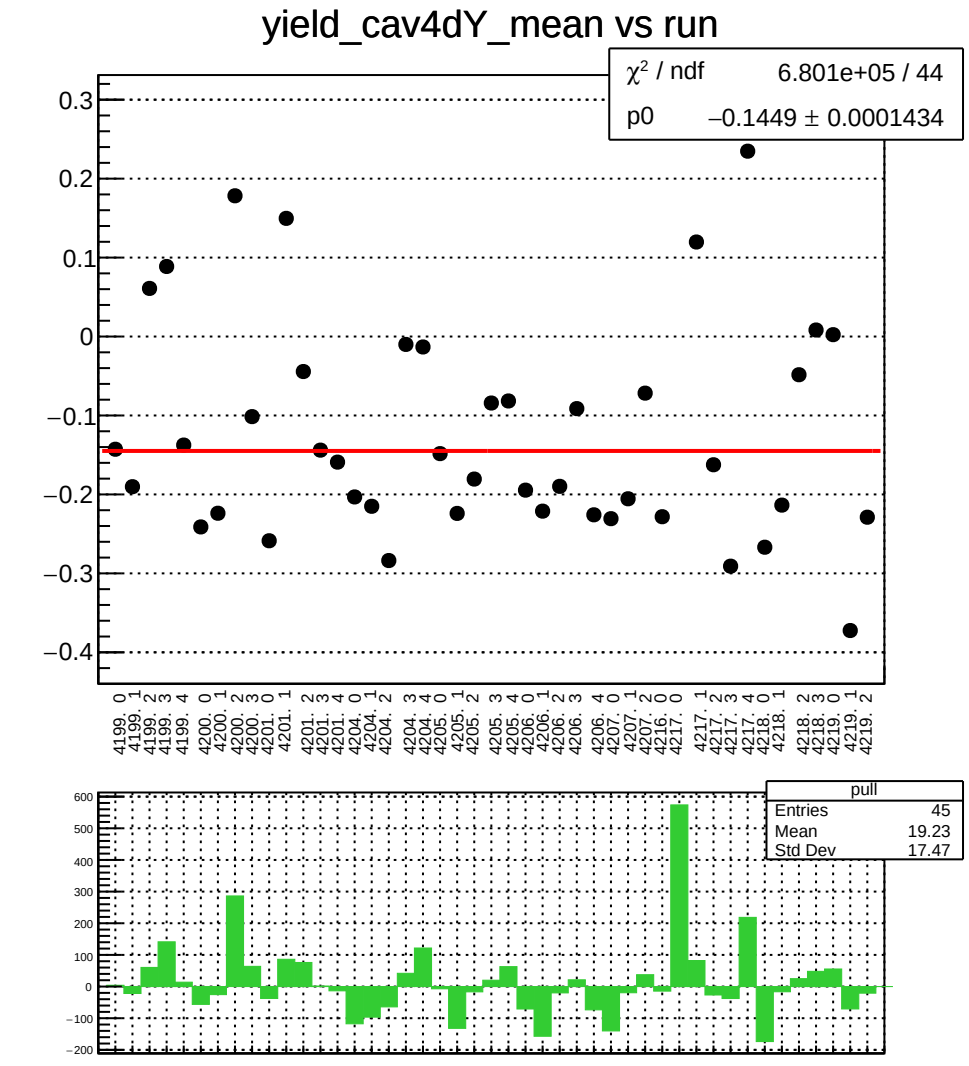

pull1D
Entries 45
Mean −2.036
Std Dev 4.21
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

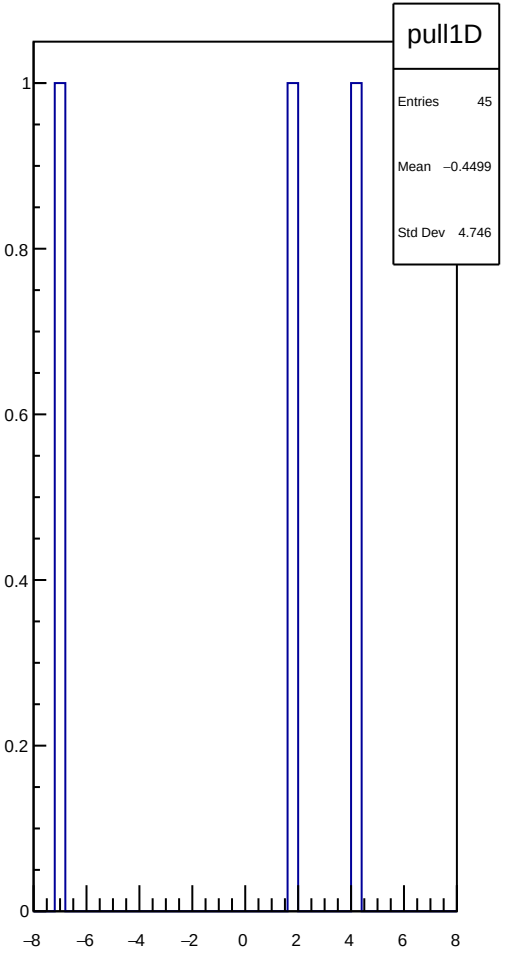

yield_cav4cY_rms vs run
χ² / ndf 1.866e+04 / 44
p0 0.004103 ± 4.425e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

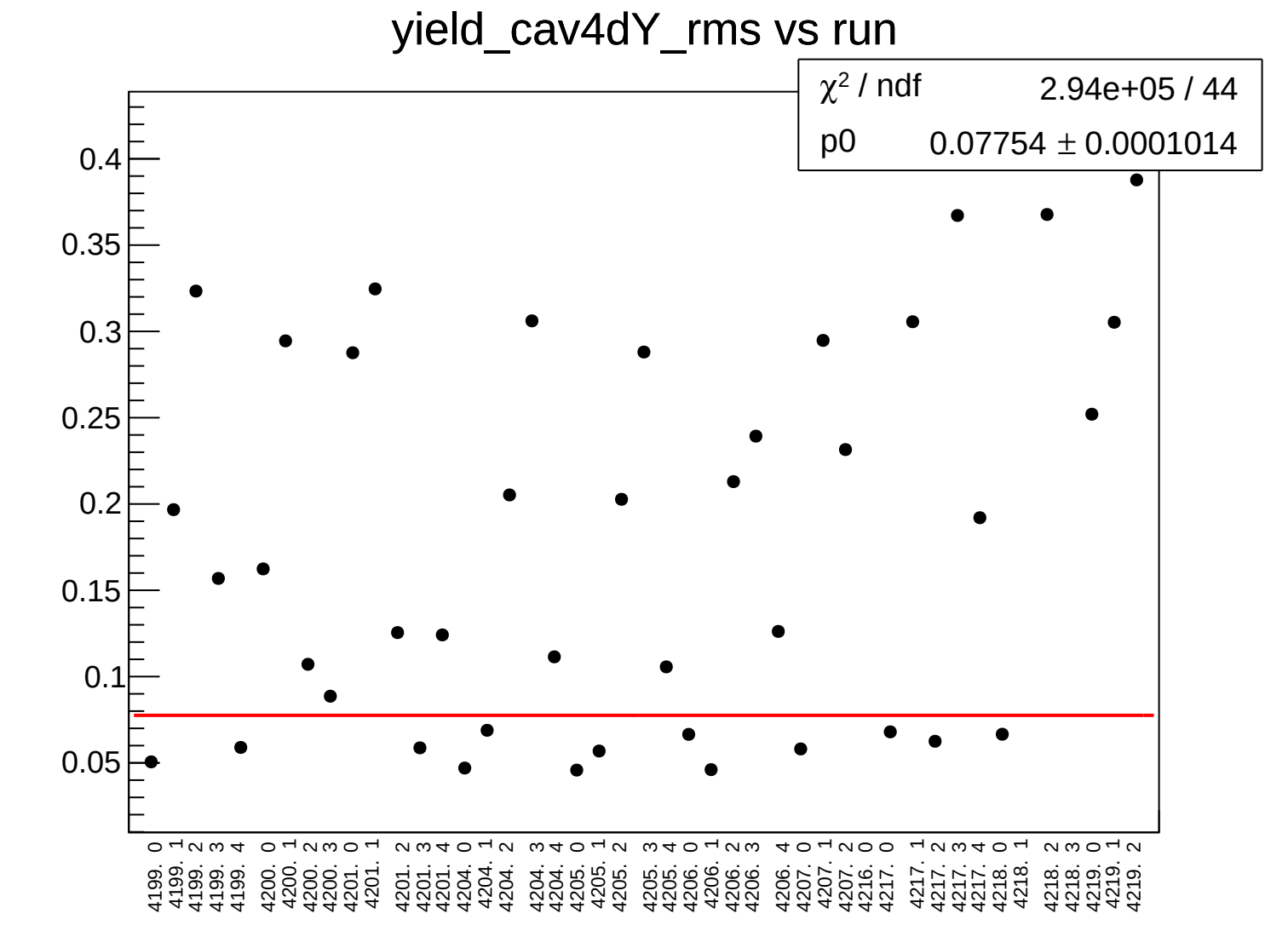

yield_cav4dX_mean vs run
χ² / ndf 7.018e+04 / 44
p0 7.042 ± 2.428e−07
7.04185
7.0418
7.04175
7.0417
7.04165
7.0416
7.04155
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 599.8
Std Dev 578.2
80
60
40
20
0
−20
−40
−60
−80
−100

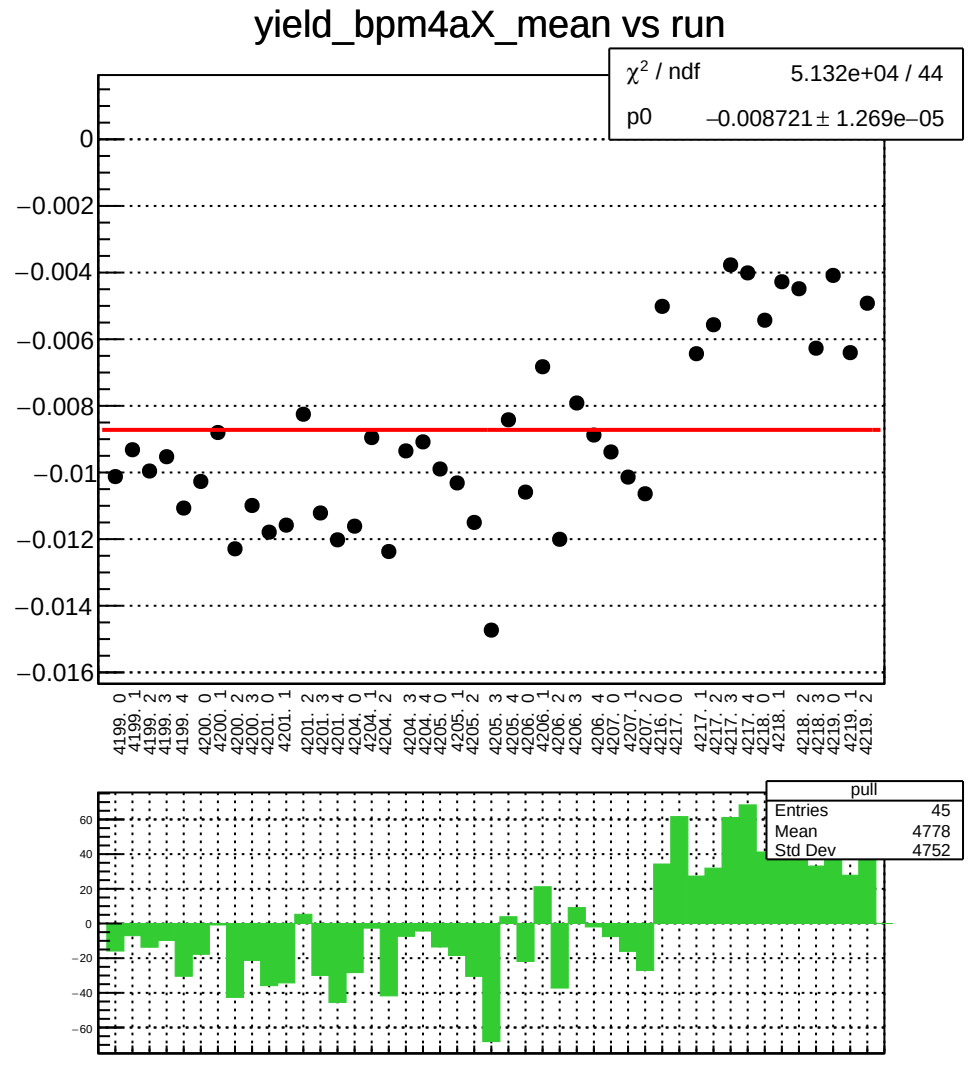

pull1D
Entries 45
Mean 0.2246
Std Dev 5.769
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

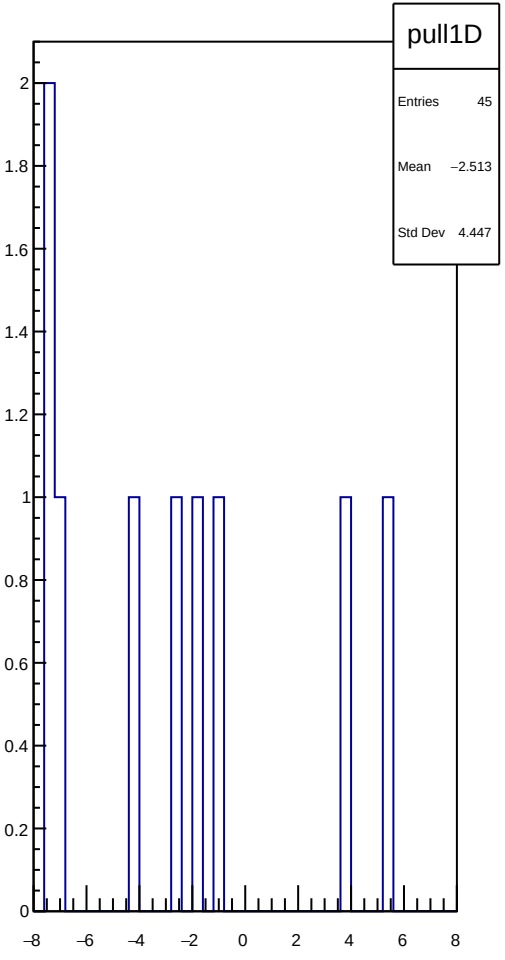

yield_cav4dX_rms vs run
×10⁻³
χ² / ndf 666.1 / 44
p0 0.0001609 ± 1.717e−07
0.175
0.17
0.165
0.16
0.155
0.15
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

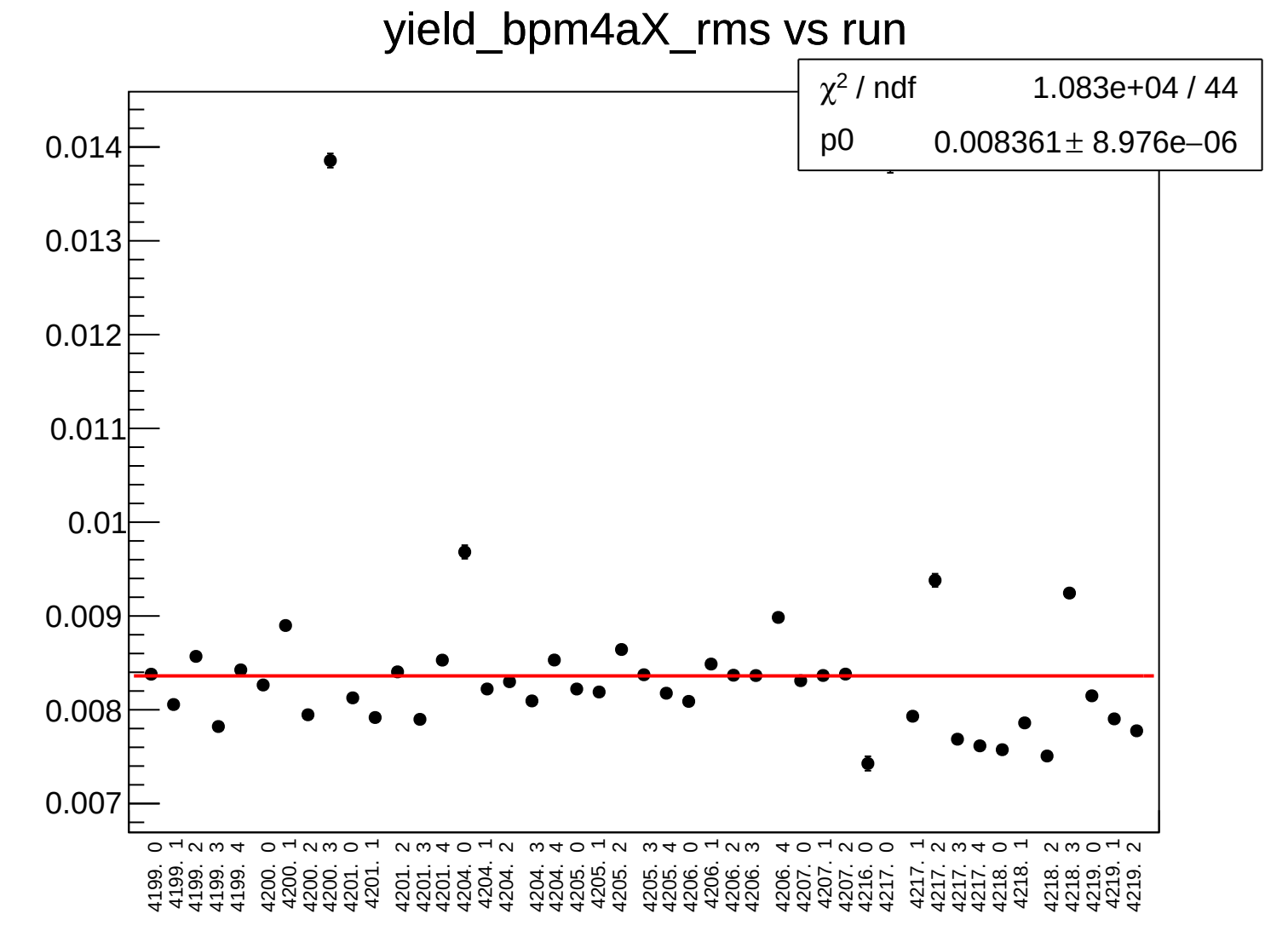

yield_cav4dY_mean vs run
χ² / ndf 6.801e+05 / 44
p0 −0.1449 ± 0.0001434
pull
Entries 45
Mean 19.23
Std Dev 17.47

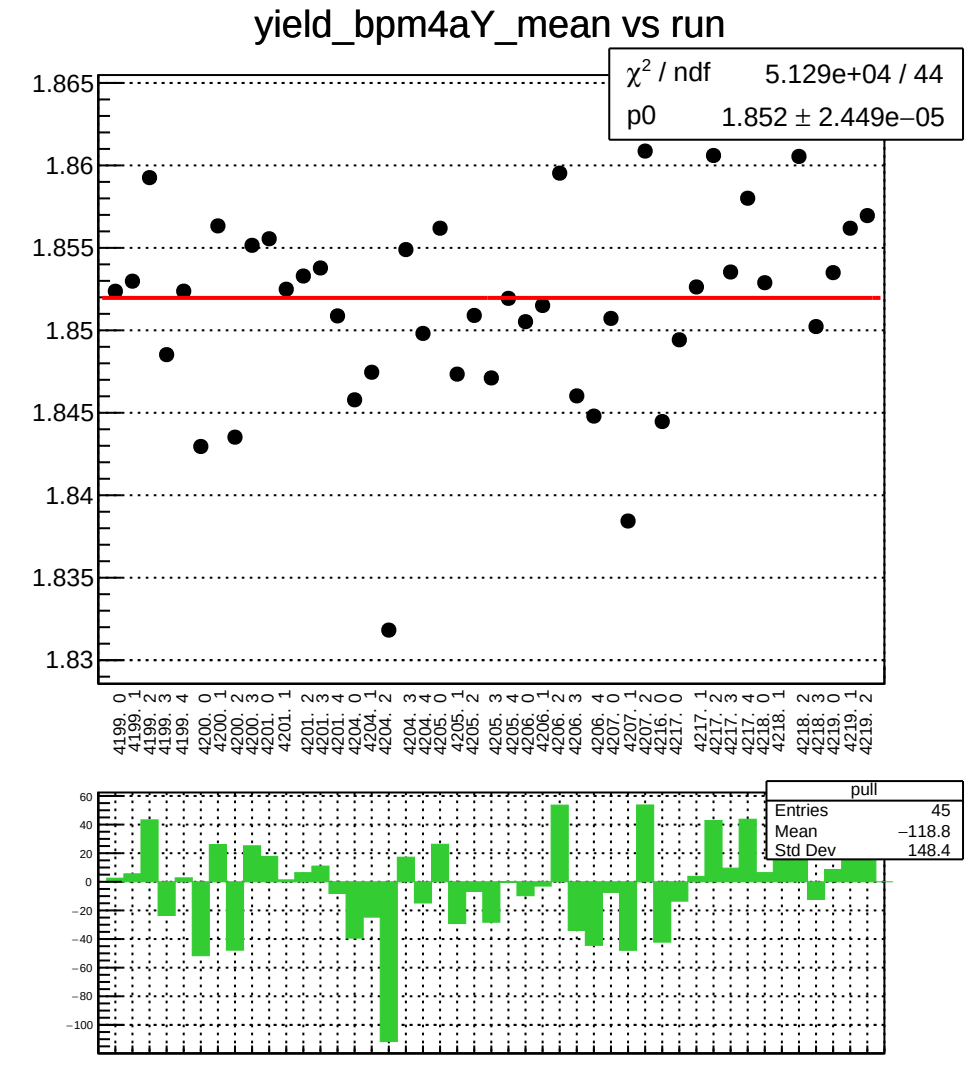

pull1D
Entries 45
Mean −0.4499
Std Dev 4.746

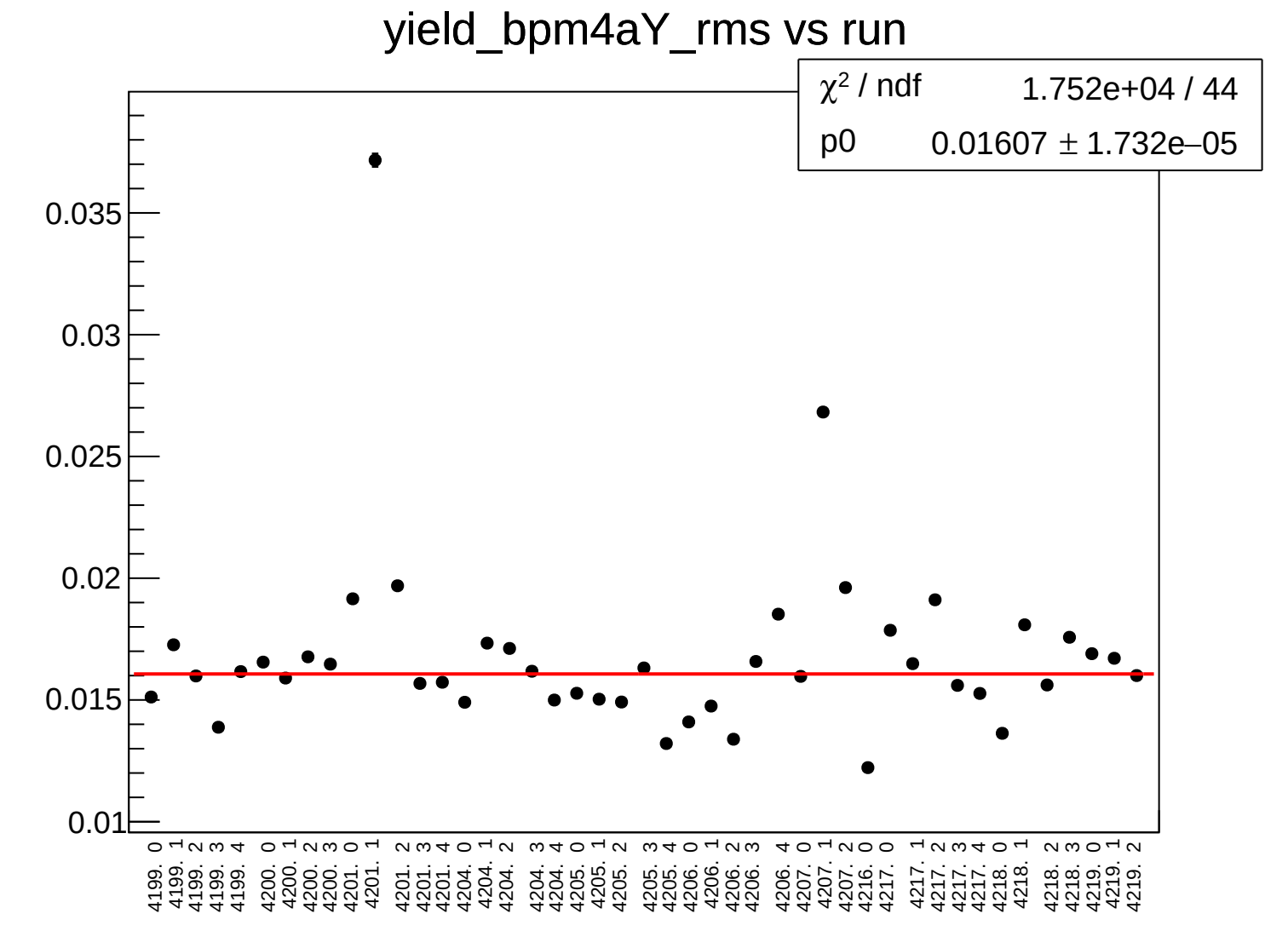

yield_cav4dY_rms vs run
χ² / ndf 2.94e+05 / 44
p0 0.07754 ± 0.0001014
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

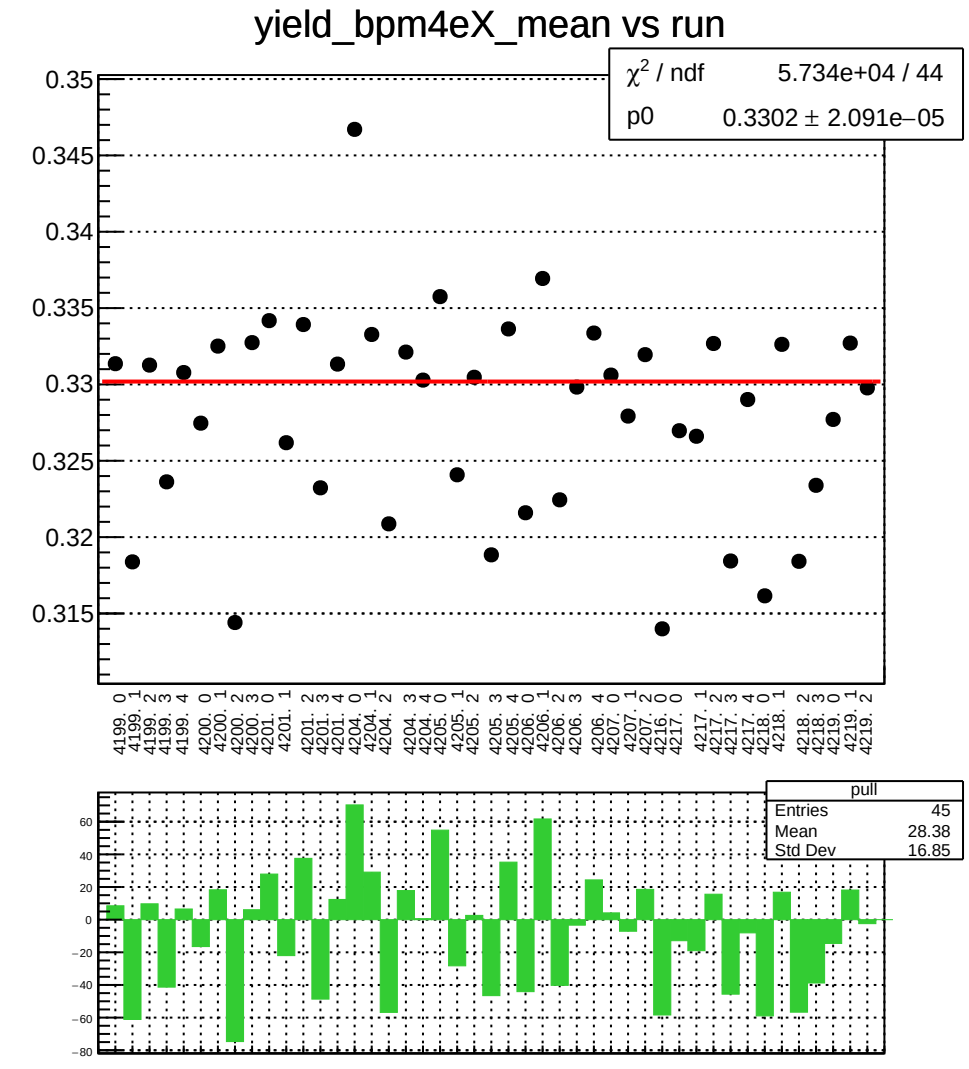

yield_bpm4aX_mean vs run
χ² / ndf 5.132e+04 / 44
p0 −0.008721 ± 1.269e−05
pull
Entries 45
Mean 4778
Std Dev 4752

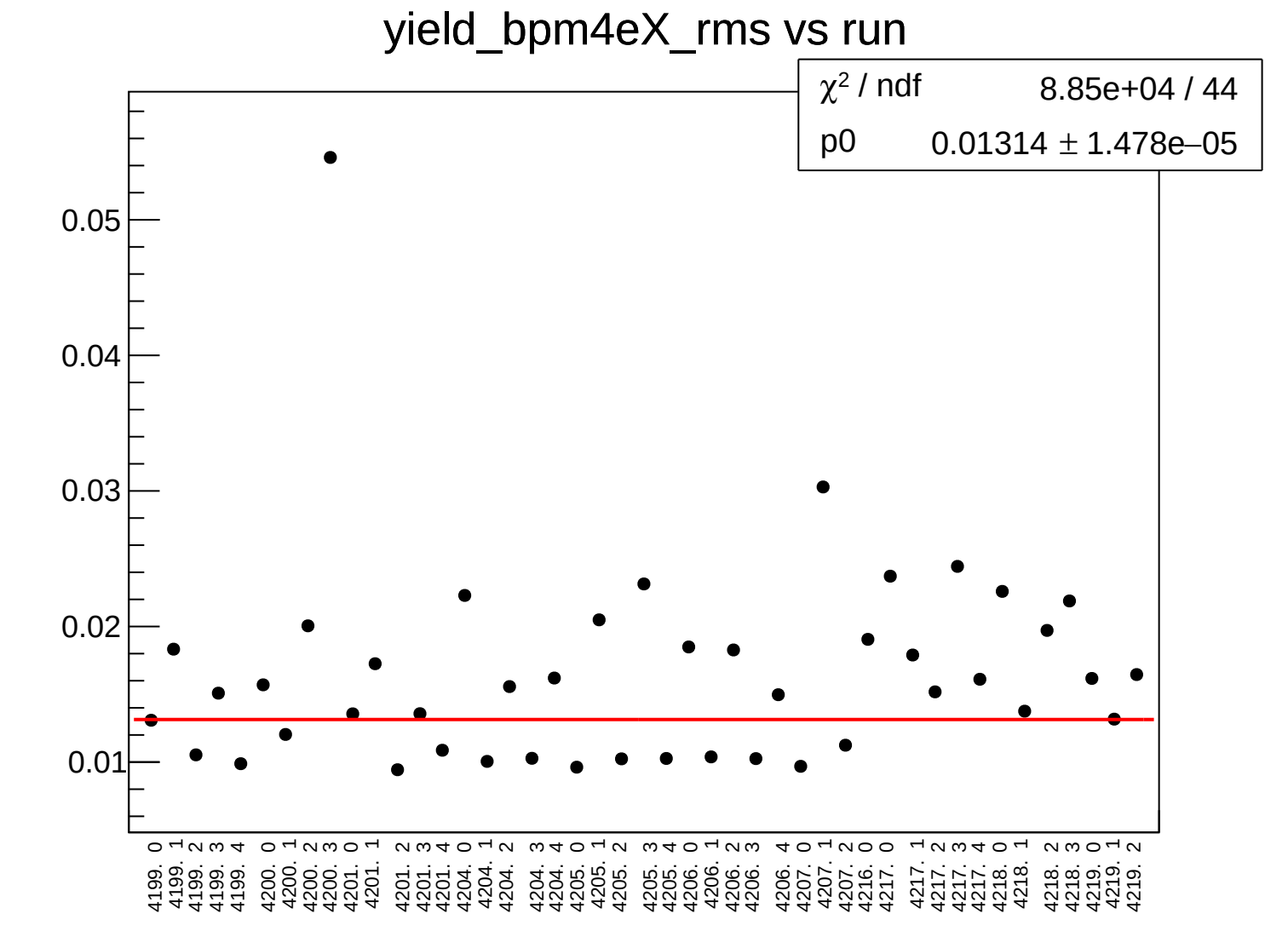

pull1D
Entries 45
Mean −2.513
Std Dev 4.447

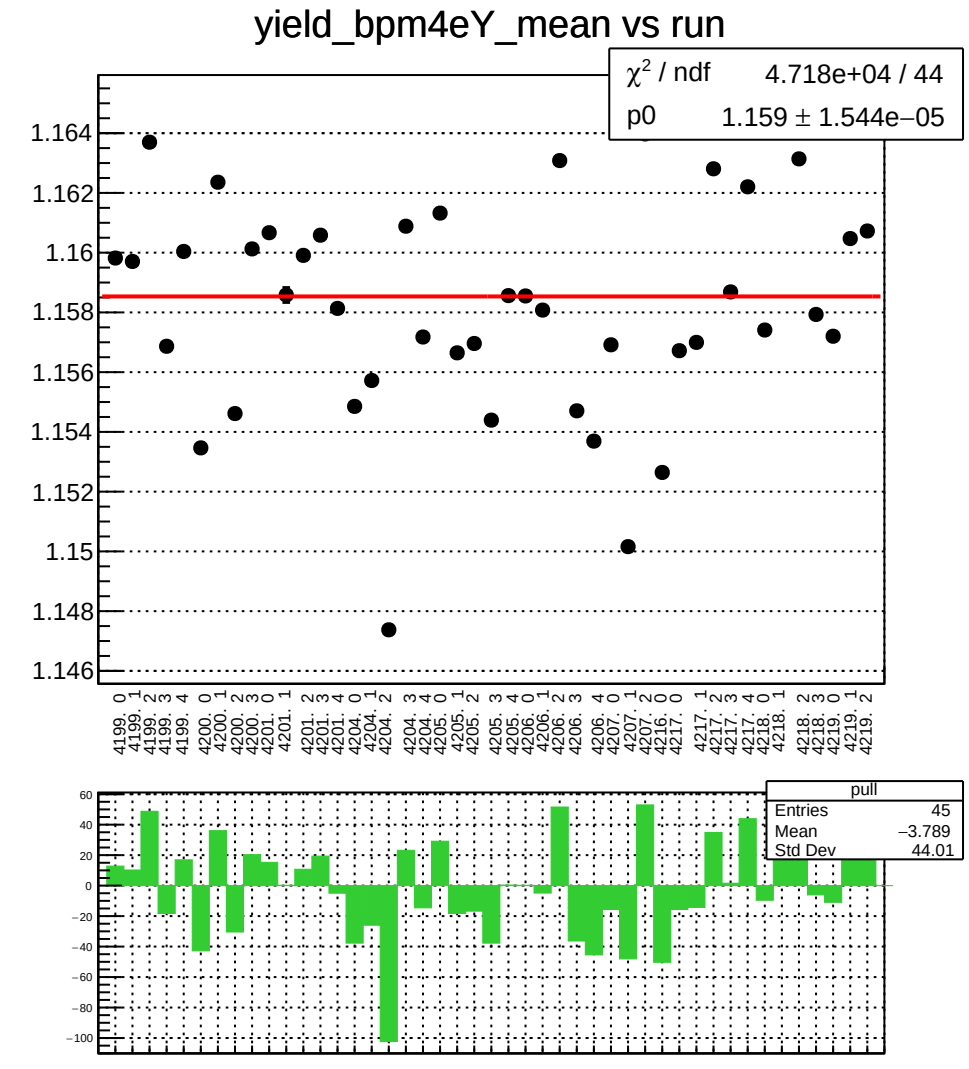

yield_bpm4aX_rms vs run
χ² / ndf 1.083e+04 / 44
p0 0.008361 ± 8.976e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

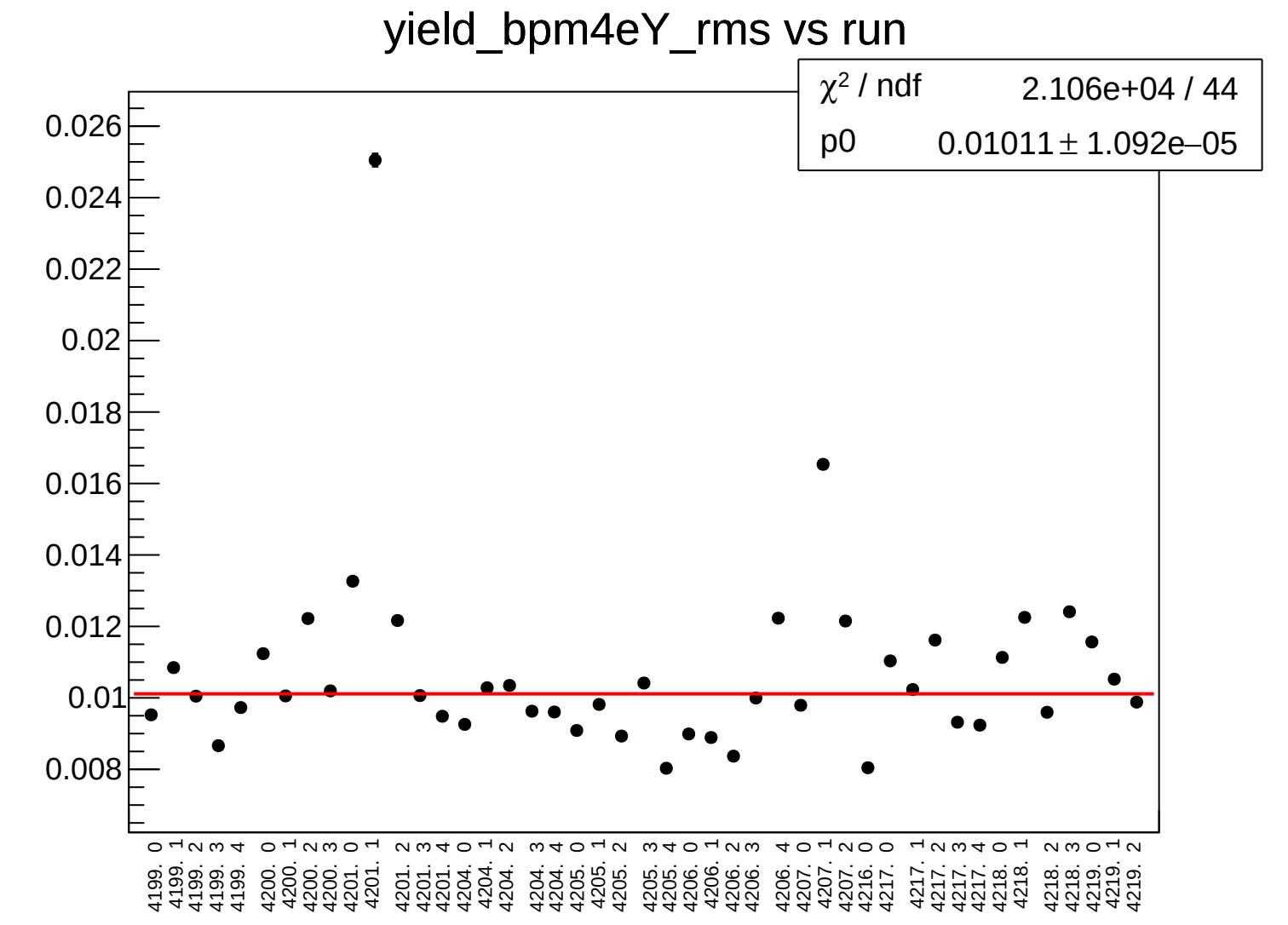

yield_bpm4aY_mean vs run
χ² / ndf 5.129e+04 / 44
p0 1.852 ± 2.449e−05
1.865
1.86
1.855
1.85
1.845
1.84
1.835
1.83
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −118.8
Std Dev 148.4
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 45
Mean 1.047
Std Dev 4.676
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

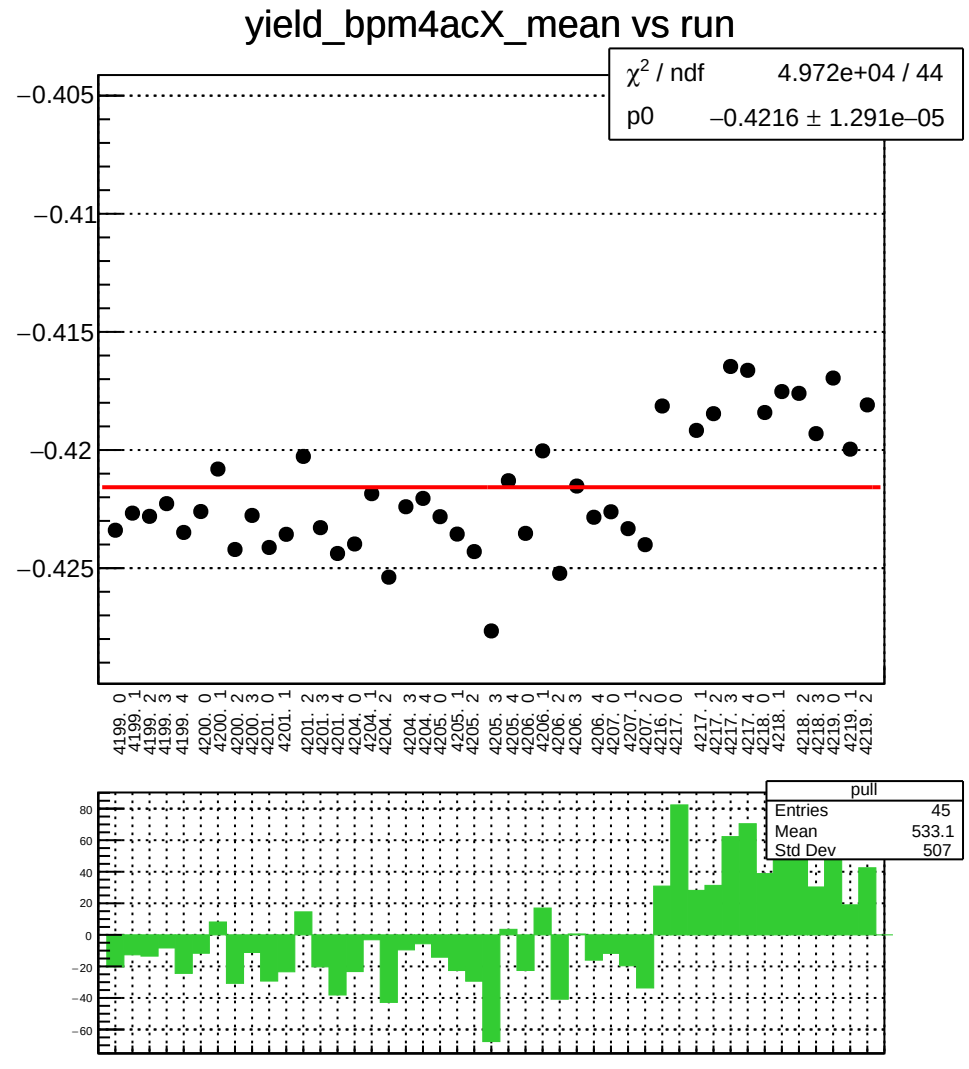

yield_bpm4aY_rms vs run
χ² / ndf 1.752e+04 / 44
p0 0.01607 ± 1.732e–05
0.035
0.03
0.025
0.02
0.015
0.01
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

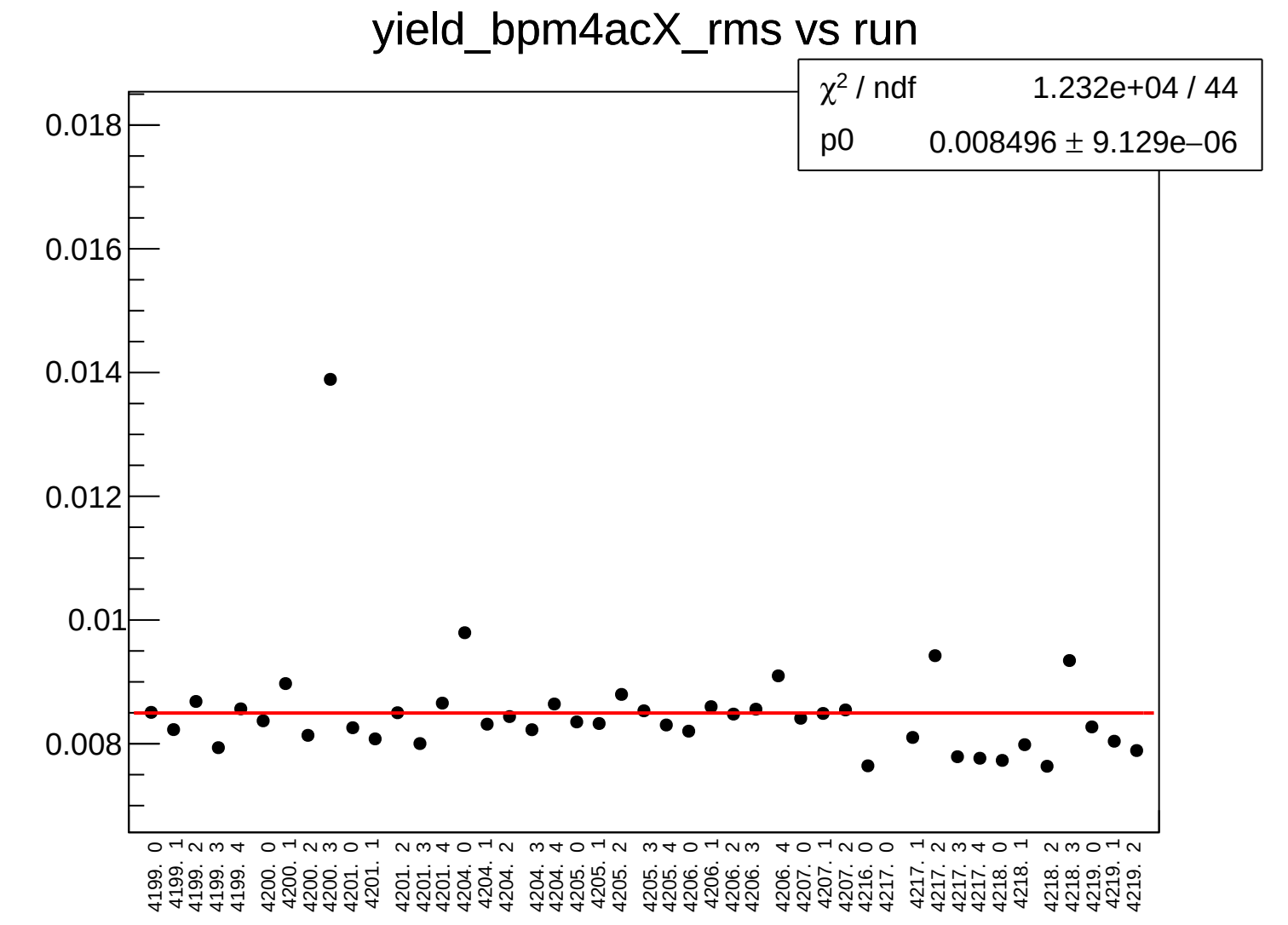

yield_bpm4eX_mean vs run
χ² / ndf 5.734e+04 / 44
p0 0.3302 ± 2.091e−05
0.35
0.345
0.34
0.335
0.33
0.325
0.32
0.315
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 28.38
Std Dev 16.85
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 0.8844
Std Dev 4.539
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

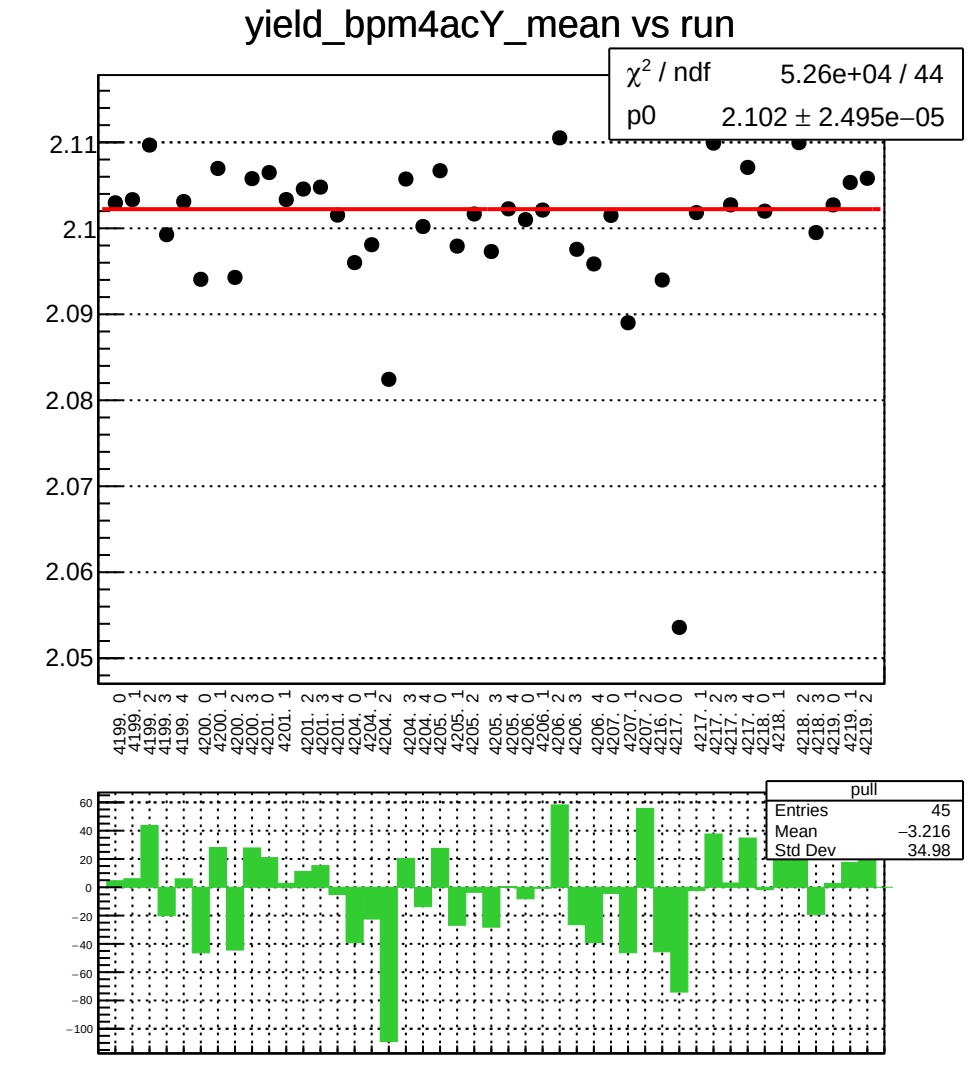

yield_bpm4eX_rms vs run
χ² / ndf 8.85e+04 / 44
p0 0.01314 ± 1.478e–05
0.05
0.04
0.03
0.02
0.01
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

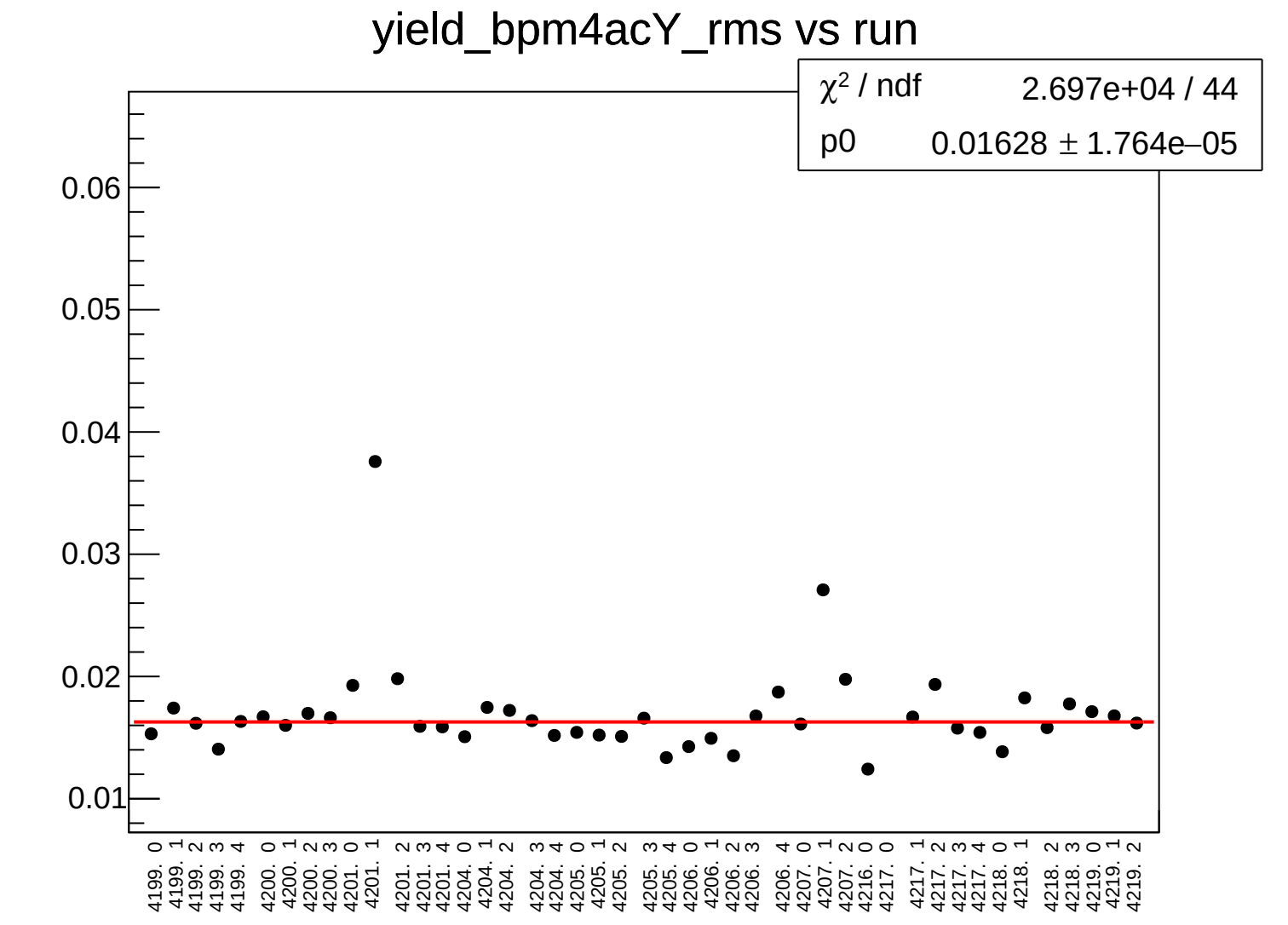

yield_bpm4eY_mean vs run
χ² / ndf 4.718e+04 / 44
p0 1.159 ± 1.544e−05
1.164
1.162
1.16
1.158
1.156
1.154
1.152
1.15
1.148
1.146
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −3.789
Std Dev 44.01
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 45
Mean −1.951
Std Dev 2.957
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

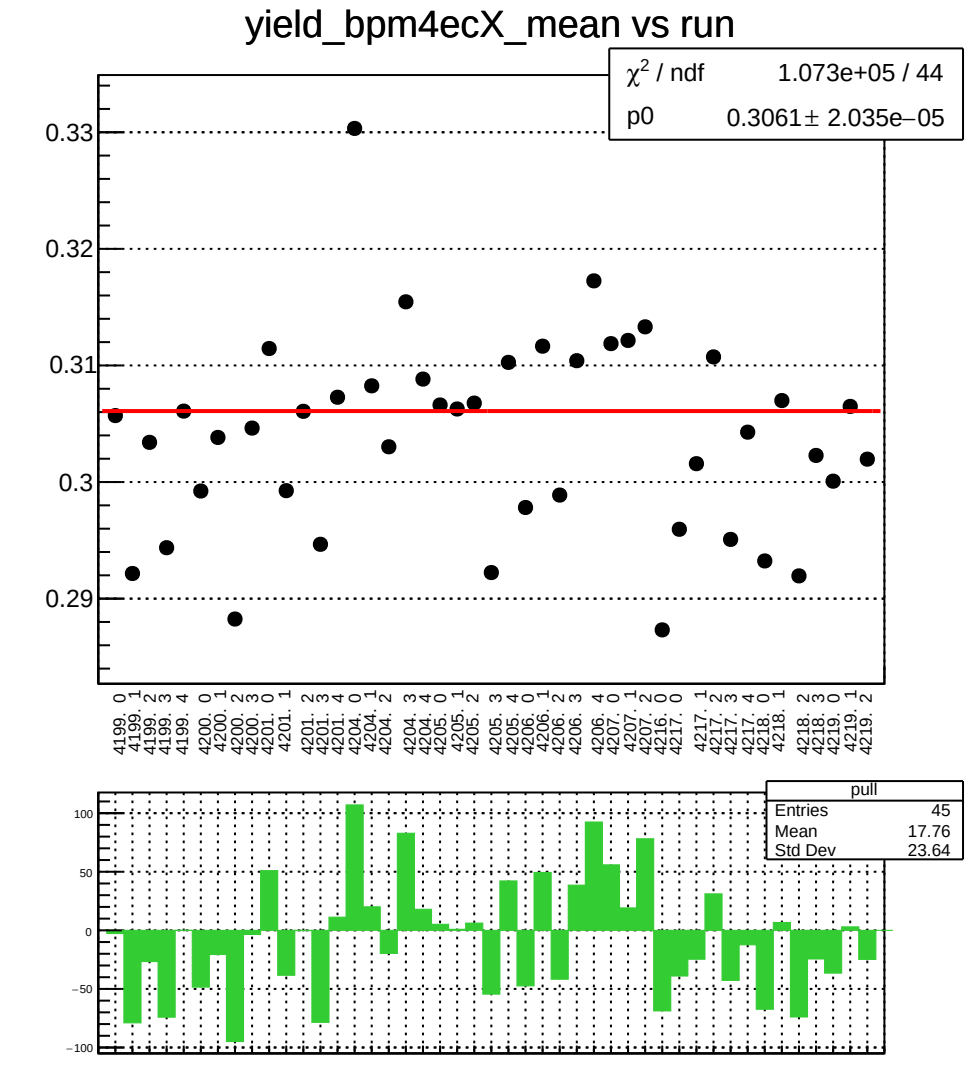

yield_bpm4eY_rms vs run
χ² / ndf 2.106e+04 / 44
p0 0.01011 ± 1.092e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

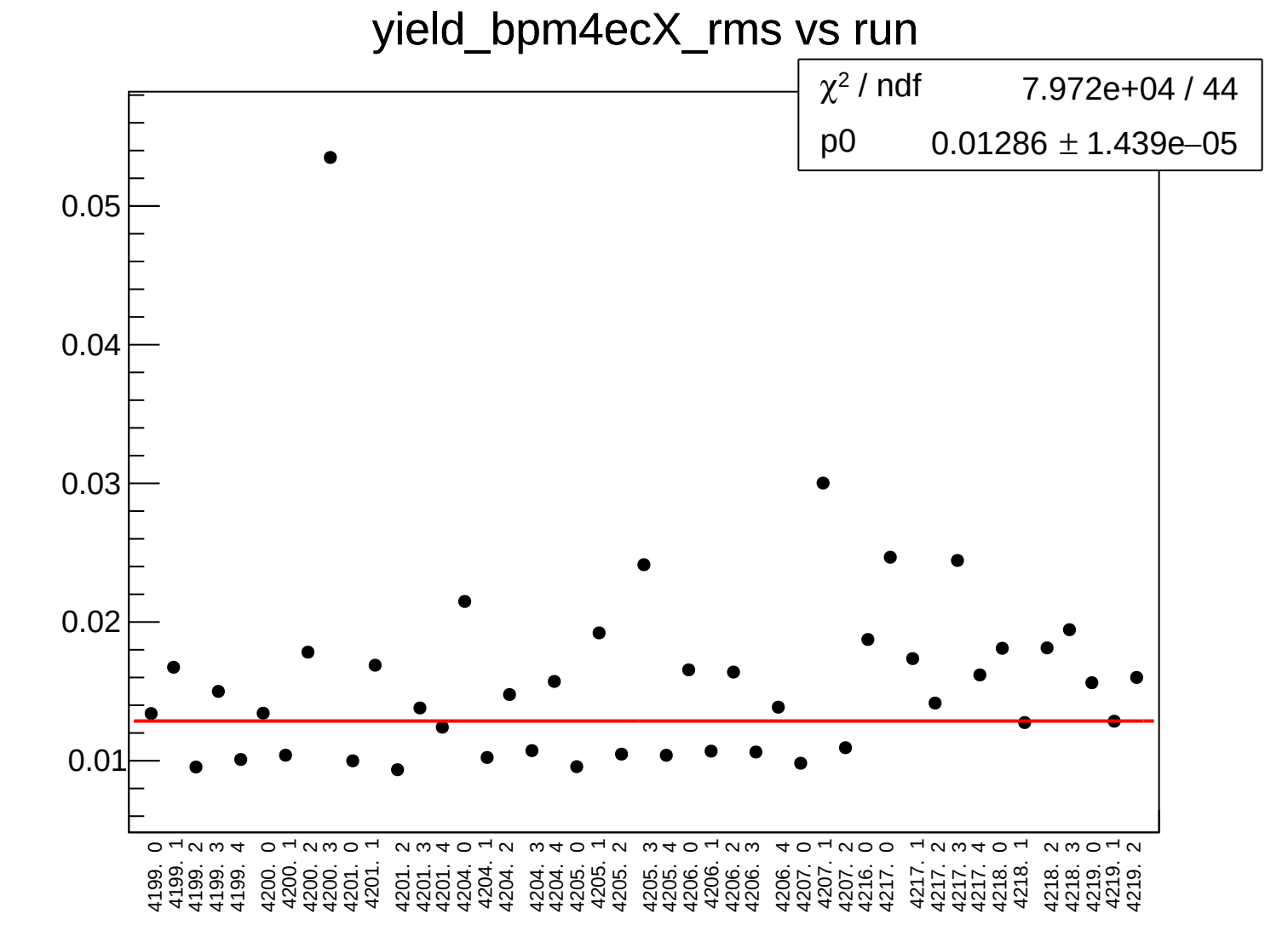

yield_bpm4acX_mean vs run
χ² / ndf 4.972e+04 / 44
p0 −0.4216 ± 1.291e−05
−0.405
−0.41
−0.415
−0.42
−0.425
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 533.1
Std Dev 507
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −1.175
Std Dev 3.475
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

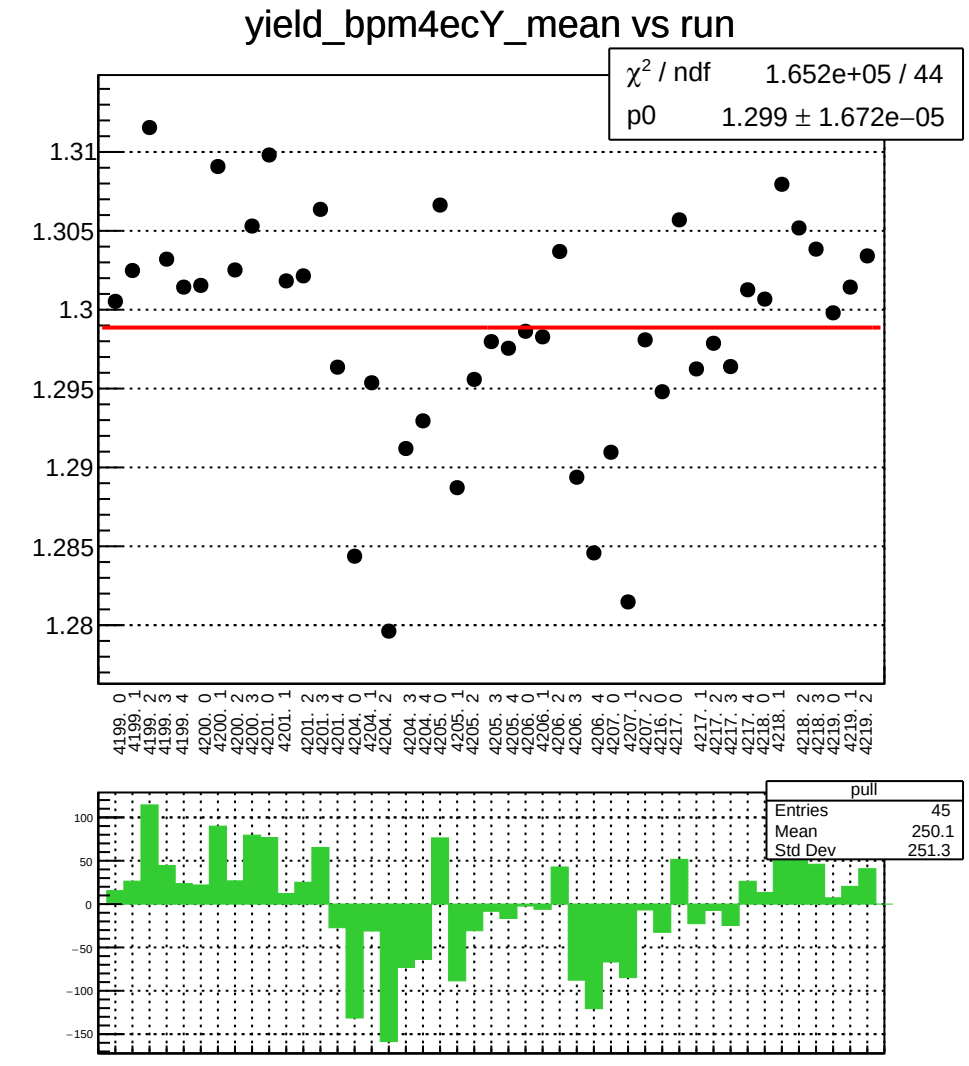

yield_bpm4acX_rms vs run
χ² / ndf 1.232e+04 / 44
p0 0.008496 ± 9.129e−06
0.018
0.016
0.014
0.012
0.01
0.008
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

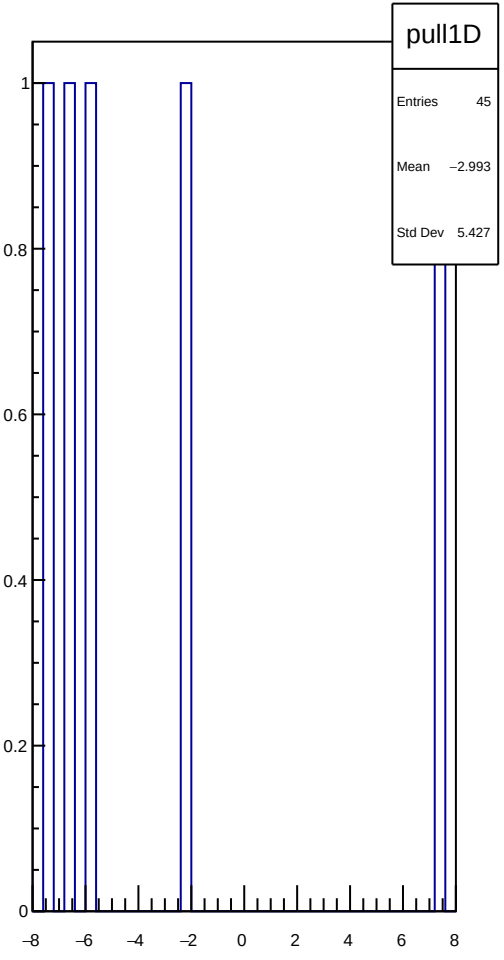

yield_bpm4acY_mean vs run
χ² / ndf 5.26e+04 / 44
p0 2.102 ± 2.495e−05
2.11
2.1
2.09
2.08
2.07
2.06
2.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −3.216
Std Dev 34.98
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 45
Mean 0.6035
Std Dev 3.695
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

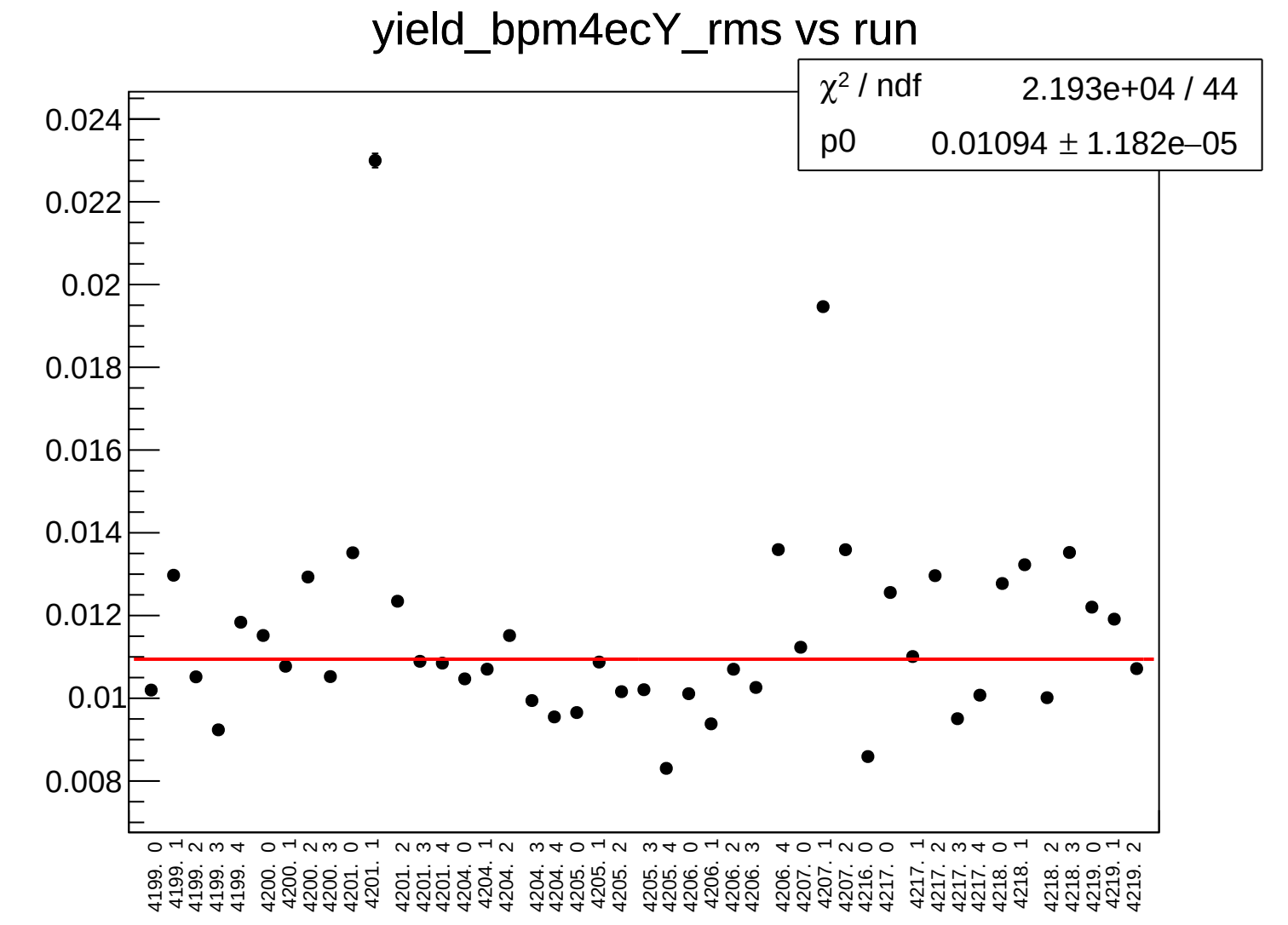

yield_bpm4acY_rms vs run
χ² / ndf 2.697e+04 / 44
p0 0.01628 ± 1.764e–05
0.06
0.05
0.04
0.03
0.02
0.01
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

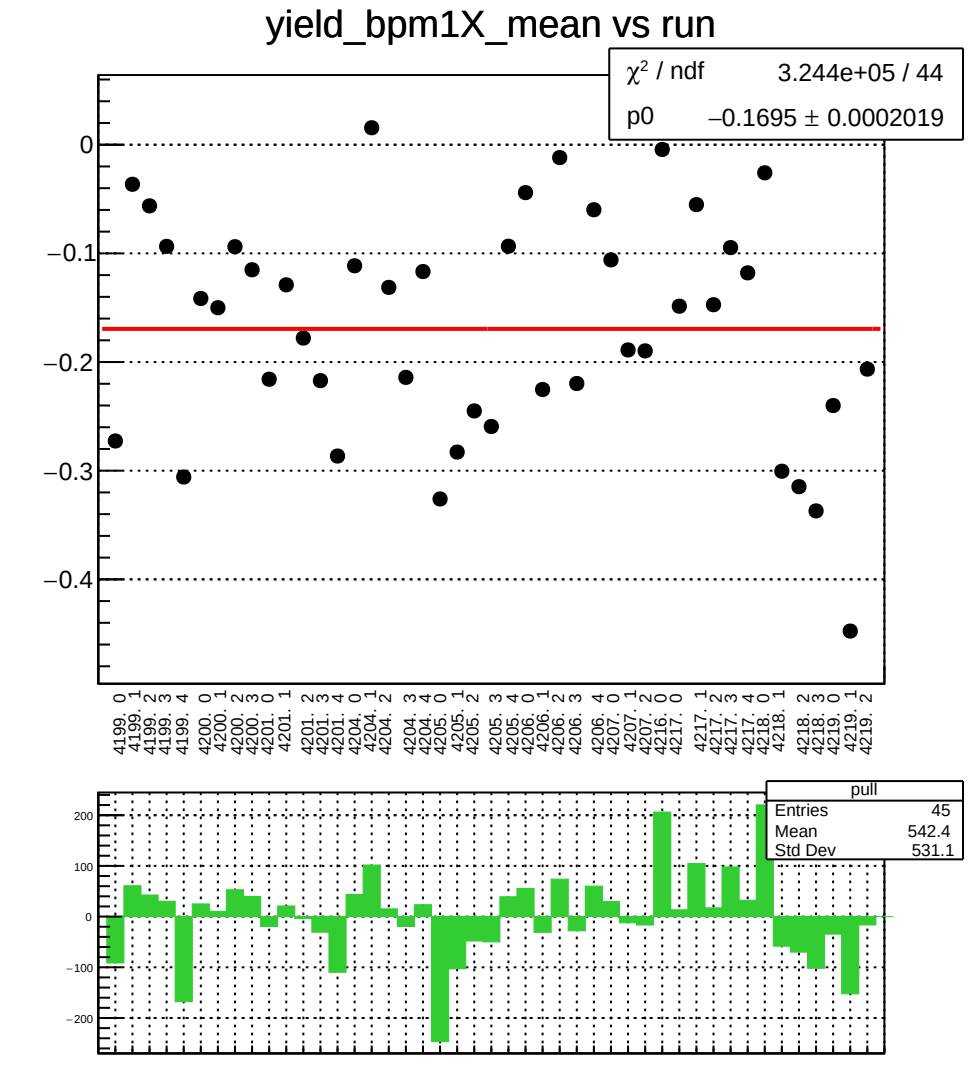

yield_bpm4ecX_mean vs run
χ² / ndf 1.073e+05 / 44
p0 0.3061 ± 2.035e−05
0.33
0.32
0.31
0.3
0.29
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 17.76
Std Dev 23.64
100
50
0
−50
−100
pull1D
Entries 45
Mean 1.702
Std Dev 3.55
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

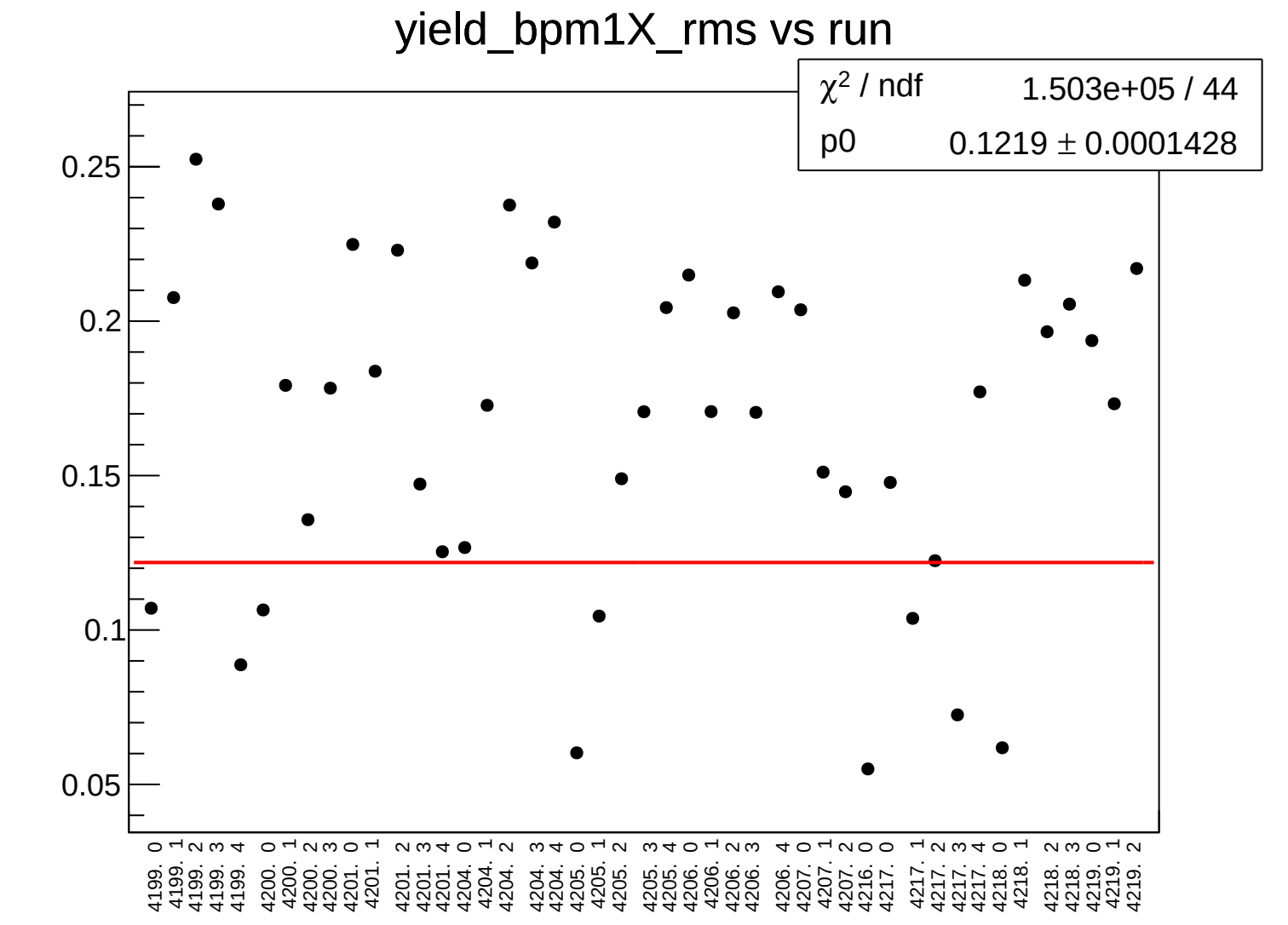

yield_bpm4ecX_rms vs run
χ² / ndf 7.972e+04 / 44
p0 0.01286 ± 1.439e−05
0.05
0.04
0.03
0.02
0.01
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

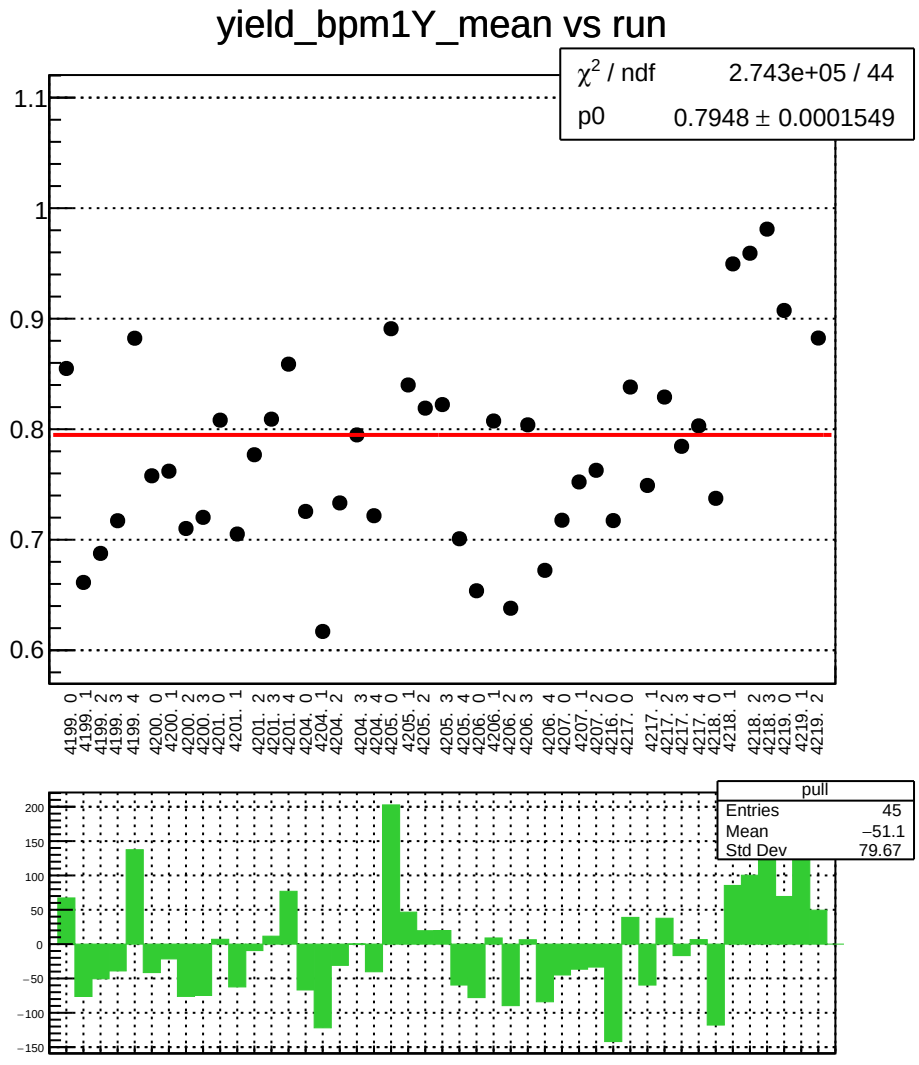

yield_bpm4ecY_mean vs run
χ² / ndf 1.652e+05 / 44
p0 1.299 ± 1.672e−05
1.31
1.305
1.3
1.295
1.29
1.285
1.28
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 250.1
Std Dev 251.3
100
50
0
−50
−100
−150

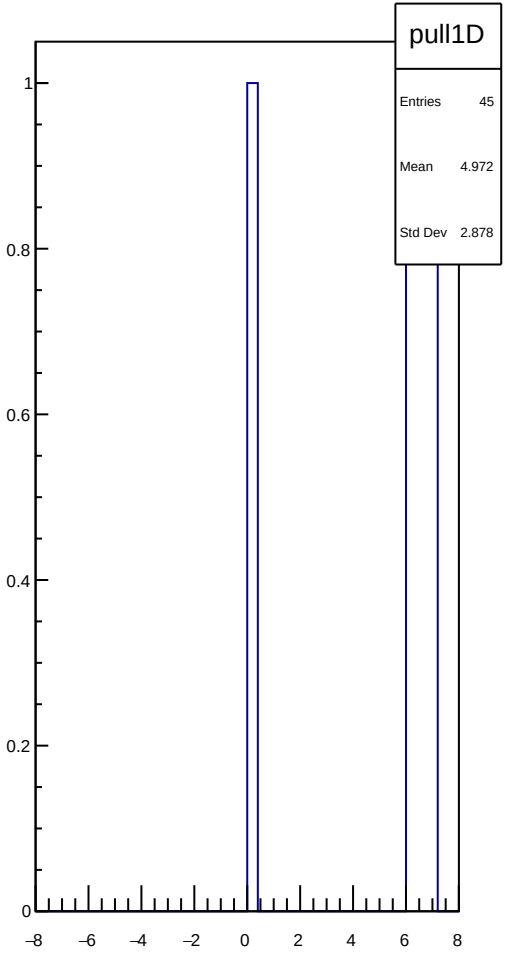

pull1D
Entries 45
Mean −2.993
Std Dev 5.427
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

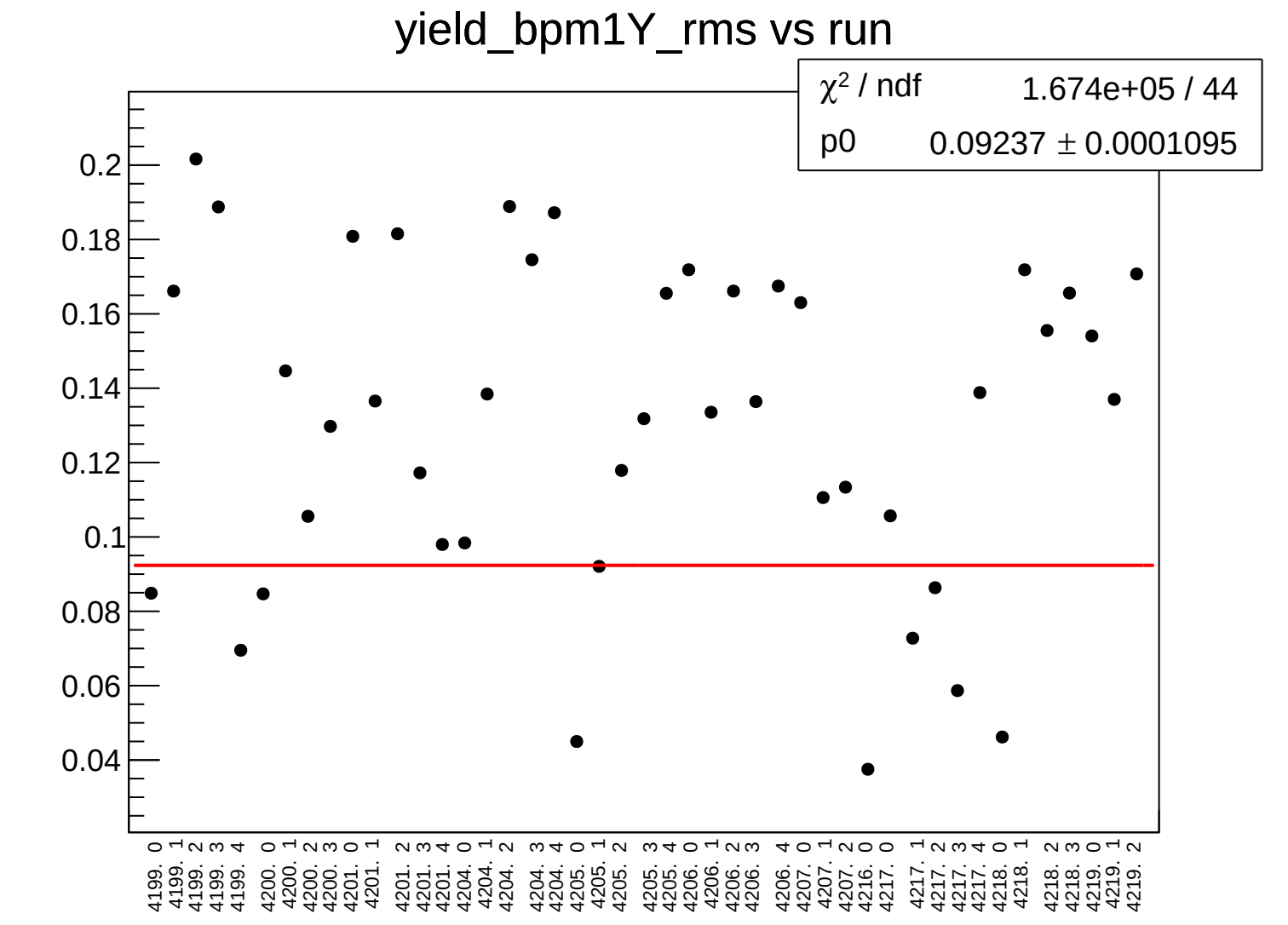

yield_bpm4ecY_rms vs run
χ² / ndf 2.193e+04 / 44
p0 0.01094 ± 1.182e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

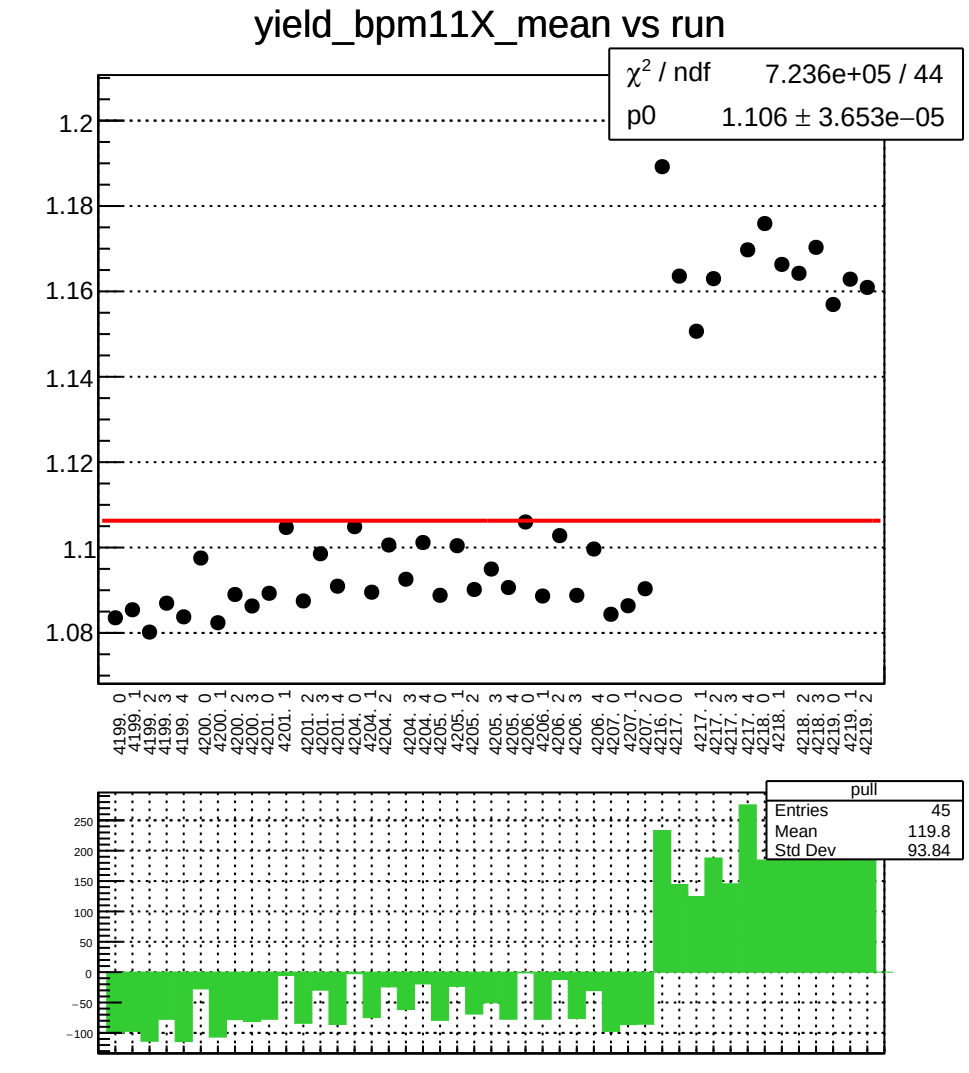

yield_bpm1X_mean vs run
χ² / ndf 3.244e+05 / 44
p0 −0.1695 ± 0.0002019
0
−0.1
−0.2
−0.3
−0.4
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 542.4
Std Dev 531.1
200
100
0
−100
−200
pull1D
Entries 45
Mean −3.589
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

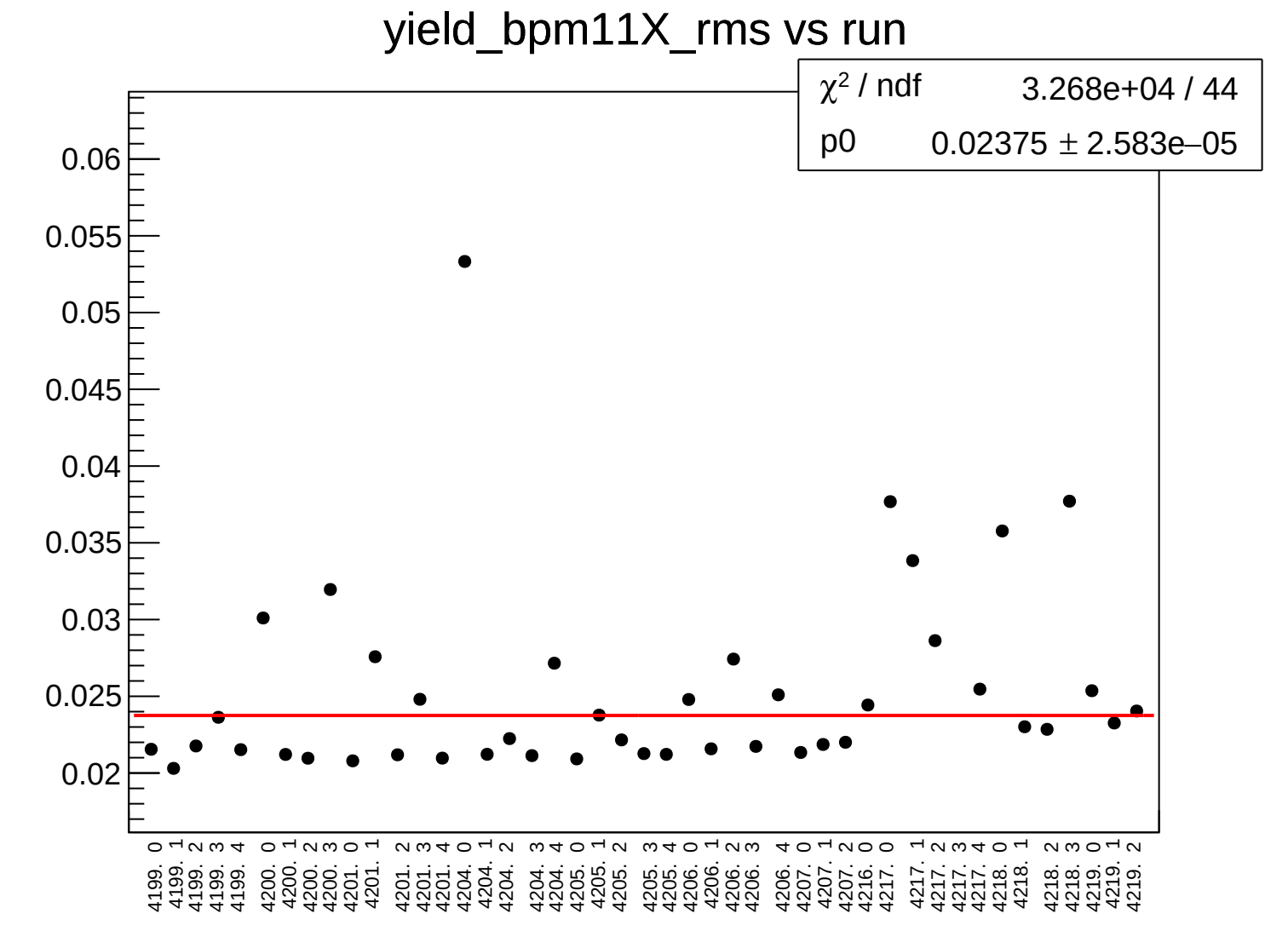

yield_bpm1X_rms vs run
χ² / ndf 1.503e+05 / 44
p0 0.1219 ± 0.0001428
0.25
0.2
0.15
0.1
0.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

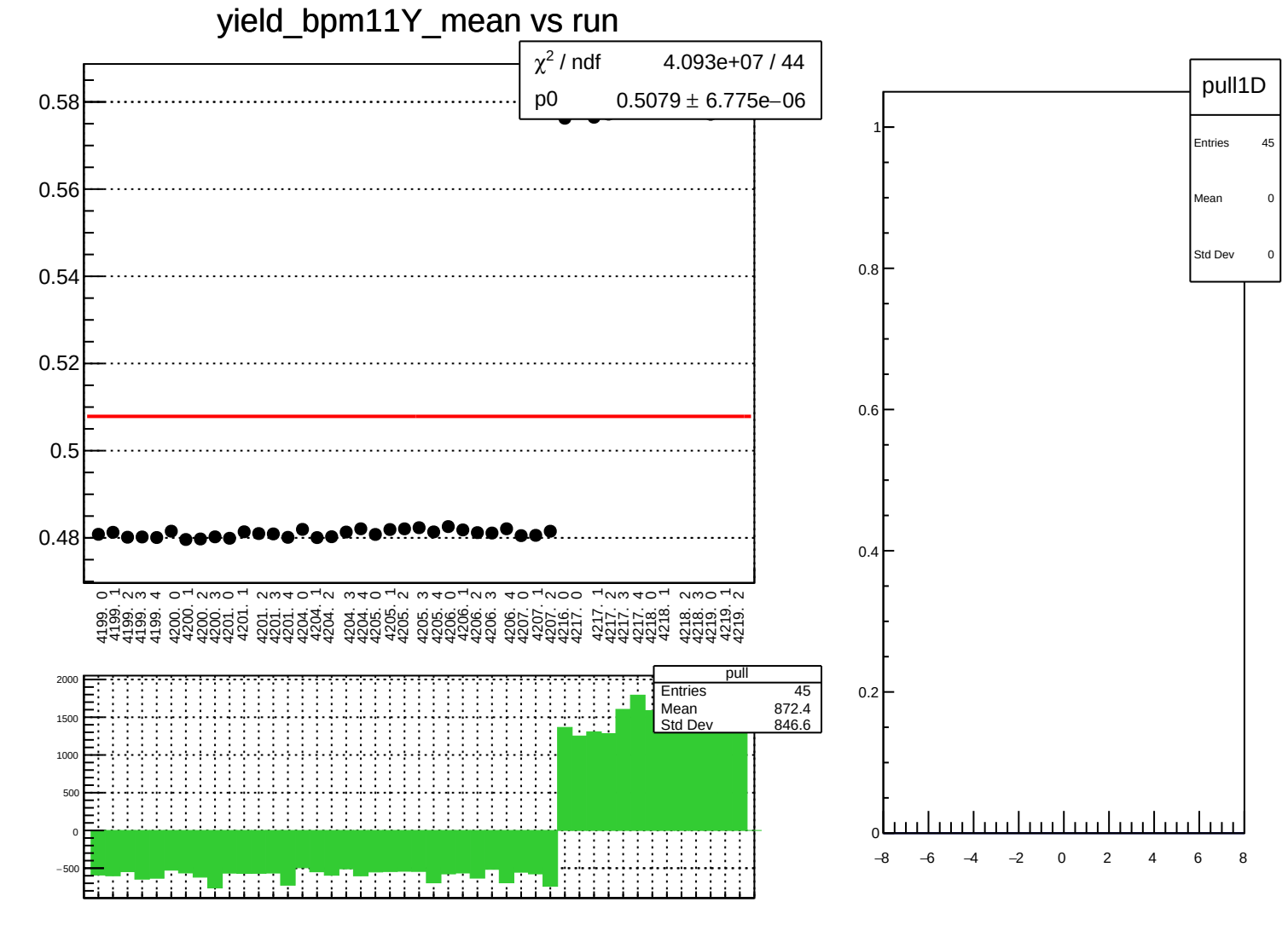

yield_bpm1Y_mean vs run
χ² / ndf 2.743e+05 / 44
p0 0.7948 ± 0.0001549
pull
Entries 45
Mean −51.1
Std Dev 79.67

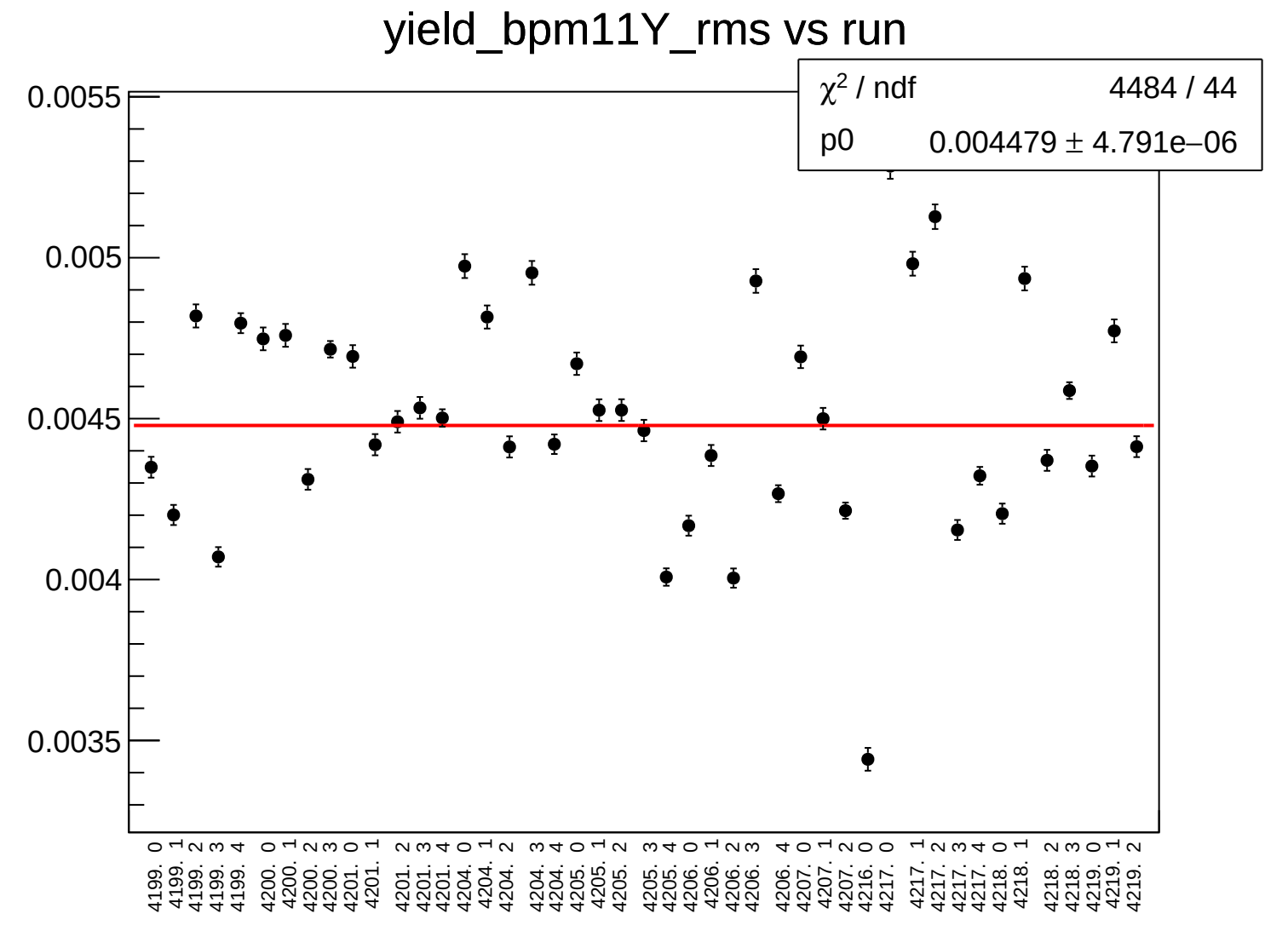

pull1D
Entries 45
Mean 4.972
Std Dev 2.878

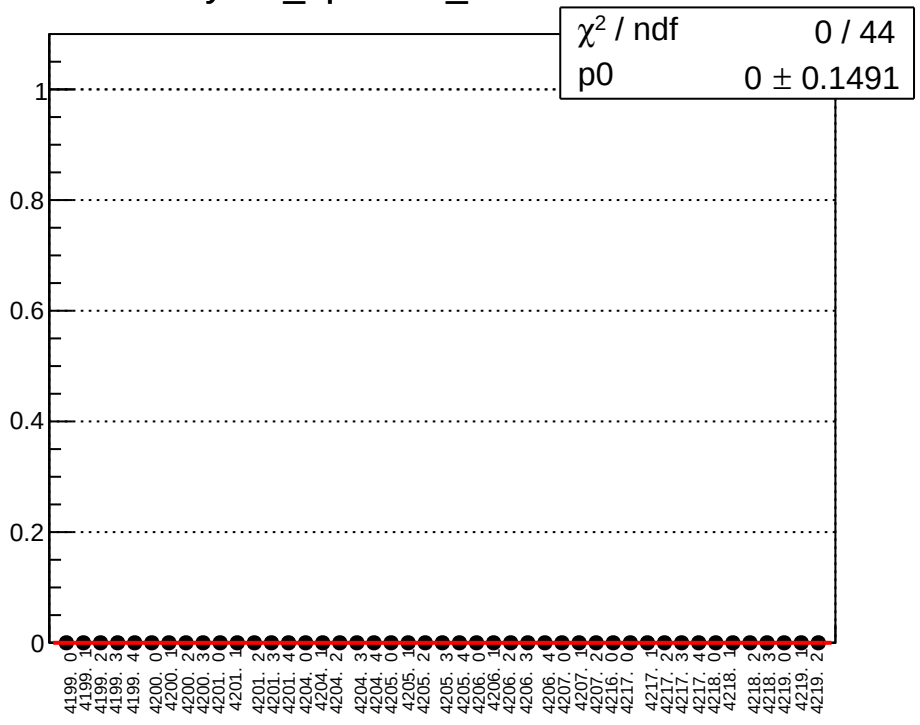

yield_bpm1Y_rms vs run
χ² / ndf 1.674e+05 / 44
p0 0.09237 ± 0.0001095
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

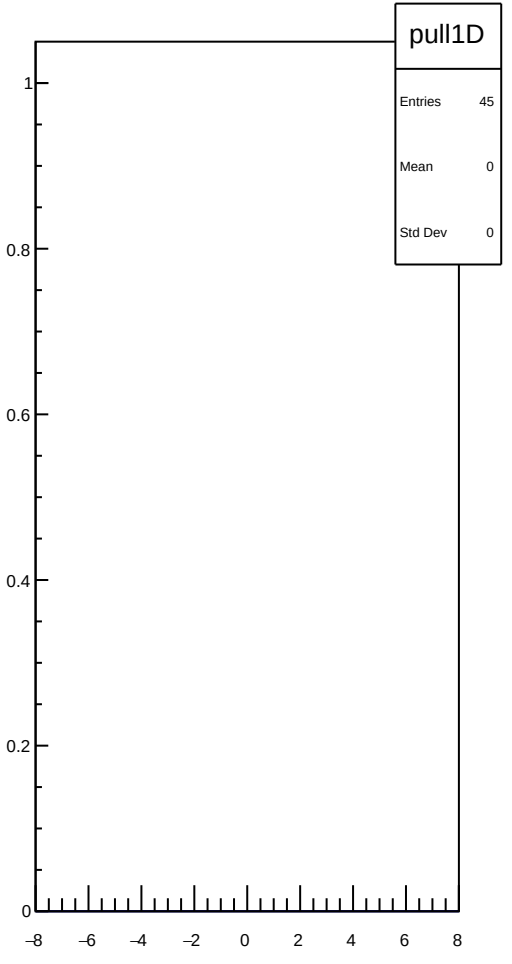

yield_bpm11X_mean vs run
χ² / ndf 7.236e+05 / 44
p0 1.106 ± 3.653e−05
1.2
1.18
1.16
1.14
1.12
1.1
1.08
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 119.8
Std Dev 93.84
250
200
150
100
50
0
−50
−100
pull1D
Entries 45
Mean −3.011
Std Dev 1.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

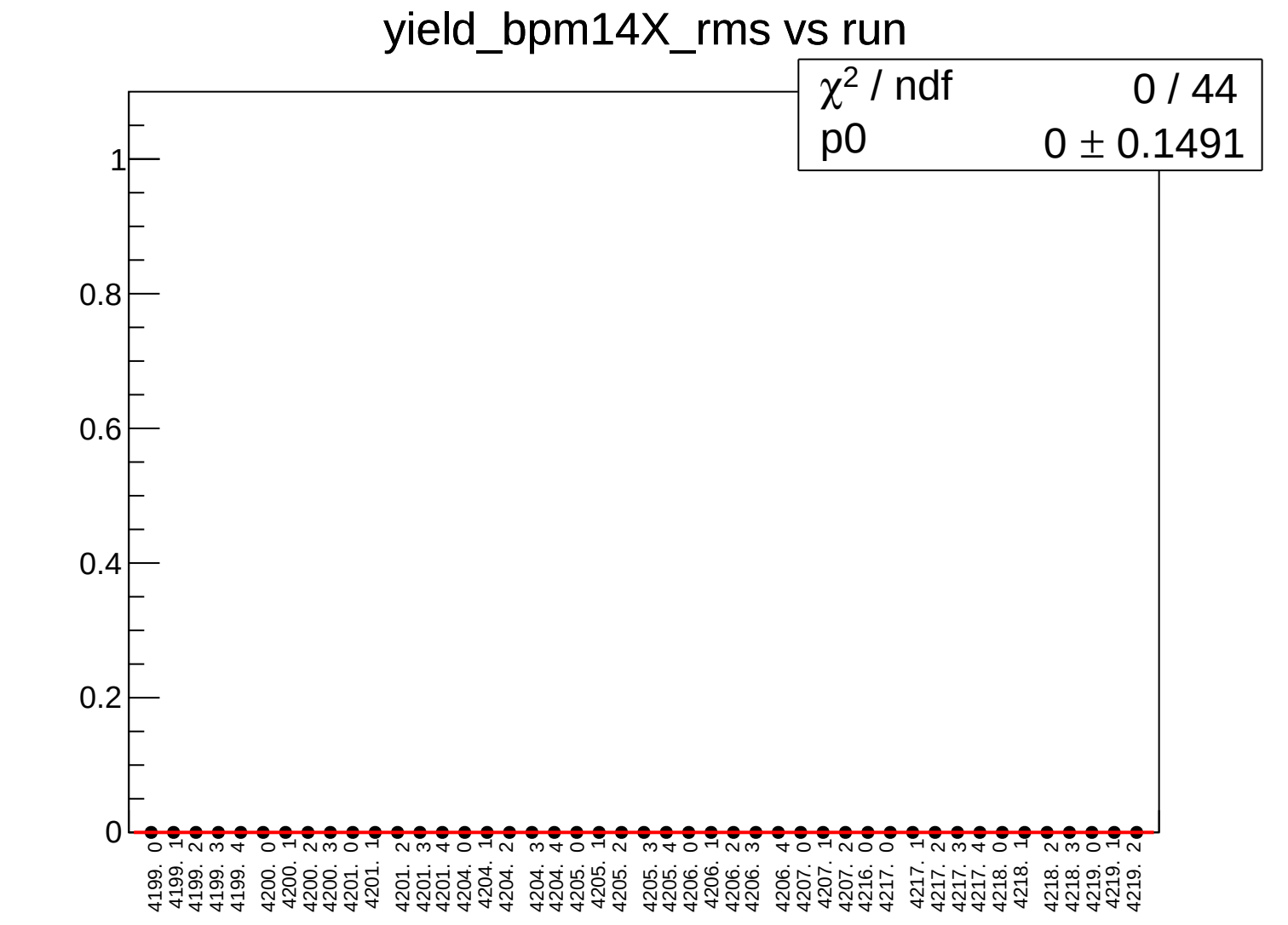

yield_bpm11X_rms vs run
χ² / ndf 3.268e+04 / 44
p0 0.02375 ± 2.583e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

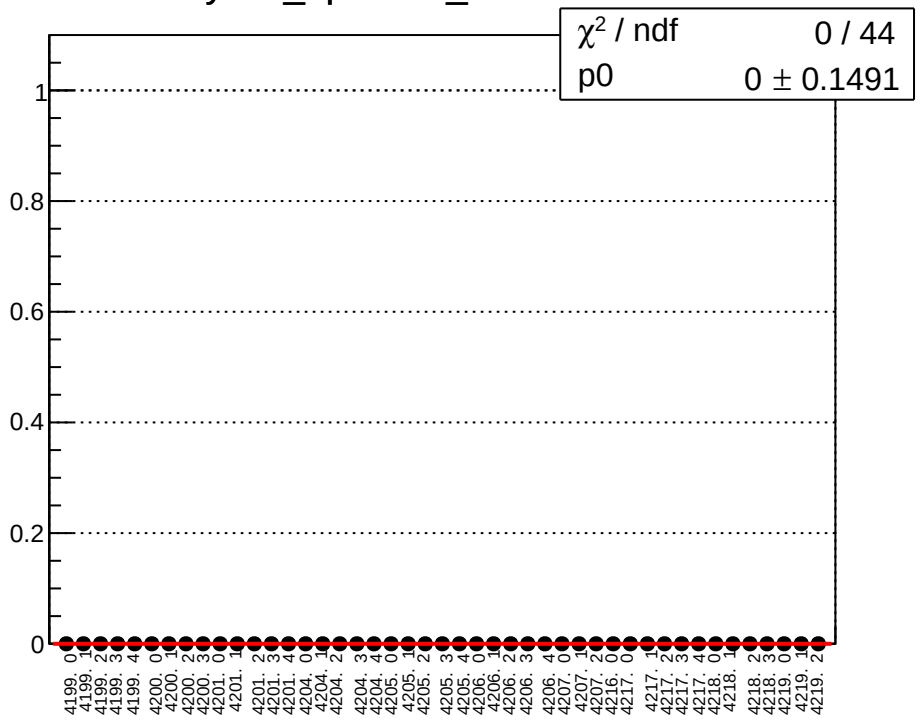

yield_bpm11Y_mean vs run
χ² / ndf 4.093e+07 / 44
p0 0.5079 ± 6.775e−06
0.58
0.56
0.54
0.52
0.5
0.48
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 872.4
Std Dev 846.6
2000
1500
1000
500
0
−500
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

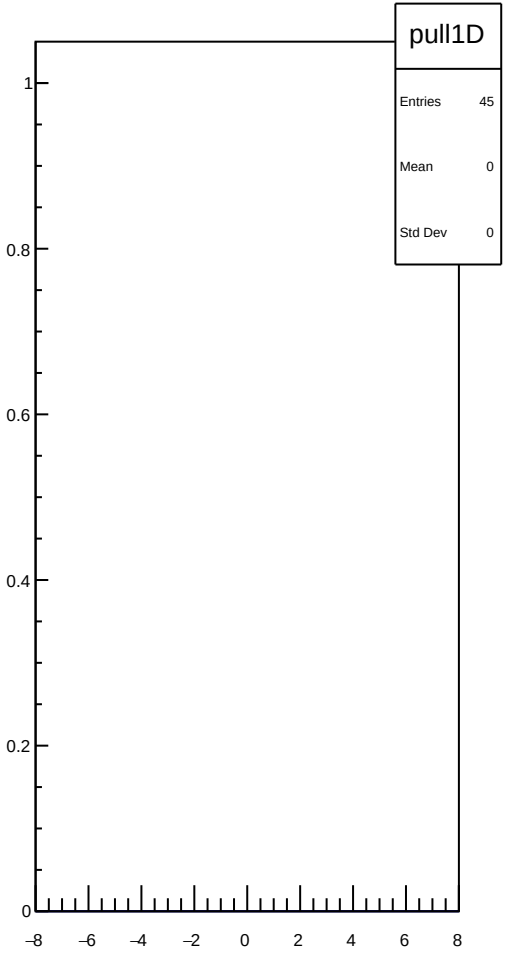

yield_bpm11Y_rms vs run
χ² / ndf 4484 / 44
p0 0.004479 ± 4.791e−06
0.0055
0.005
0.0045
0.004
0.0035
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

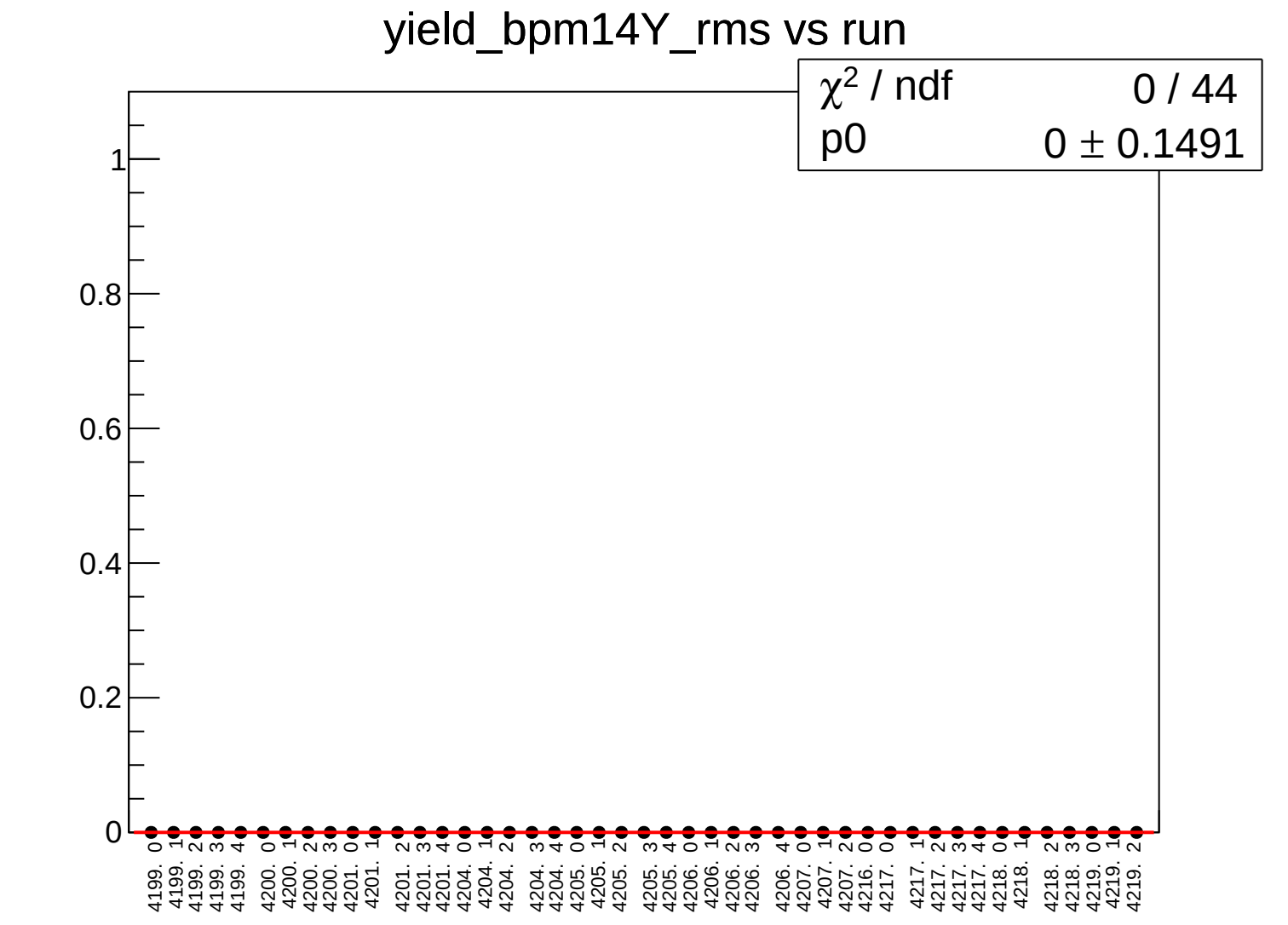

yield_bpm14X_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

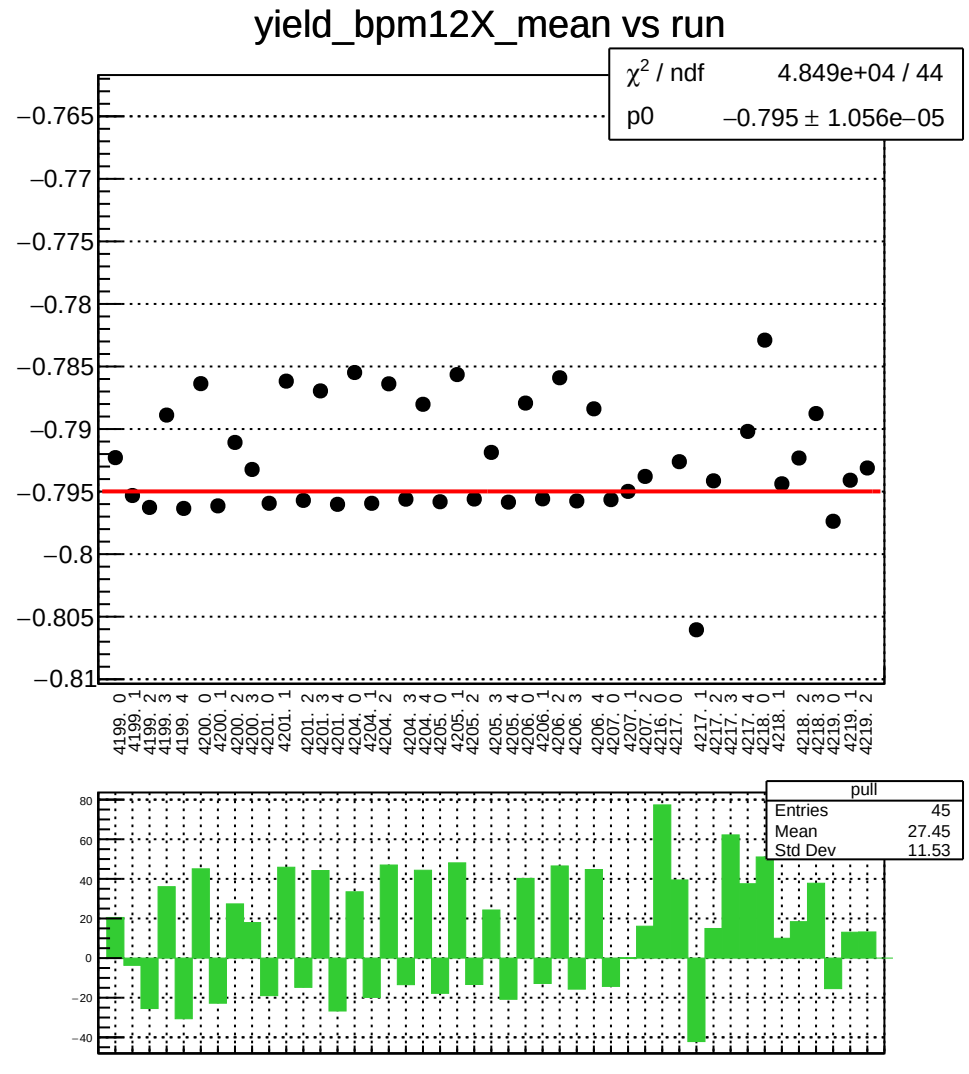

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

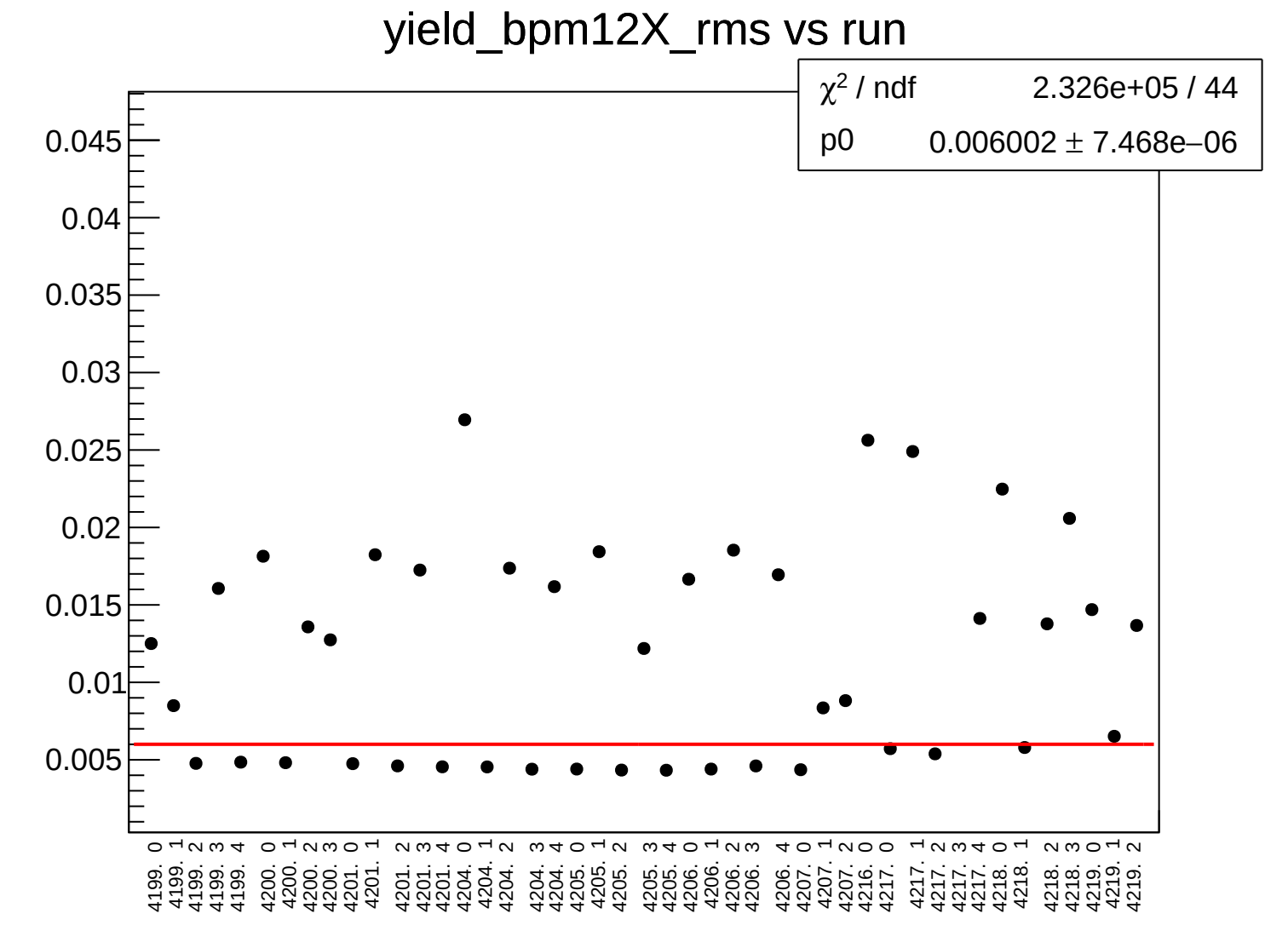

yield_bpm14X_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

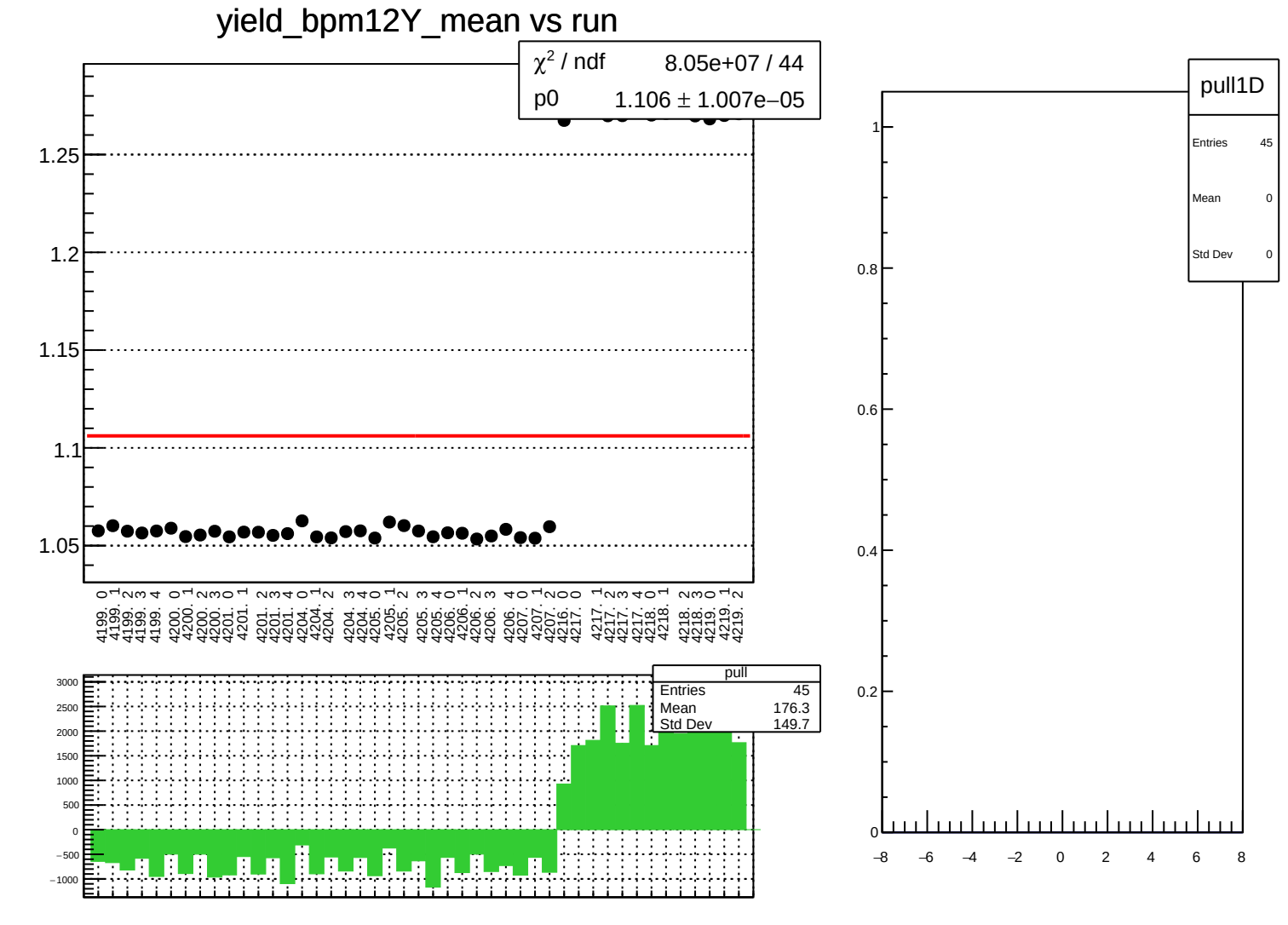

yield_bpm14Y_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

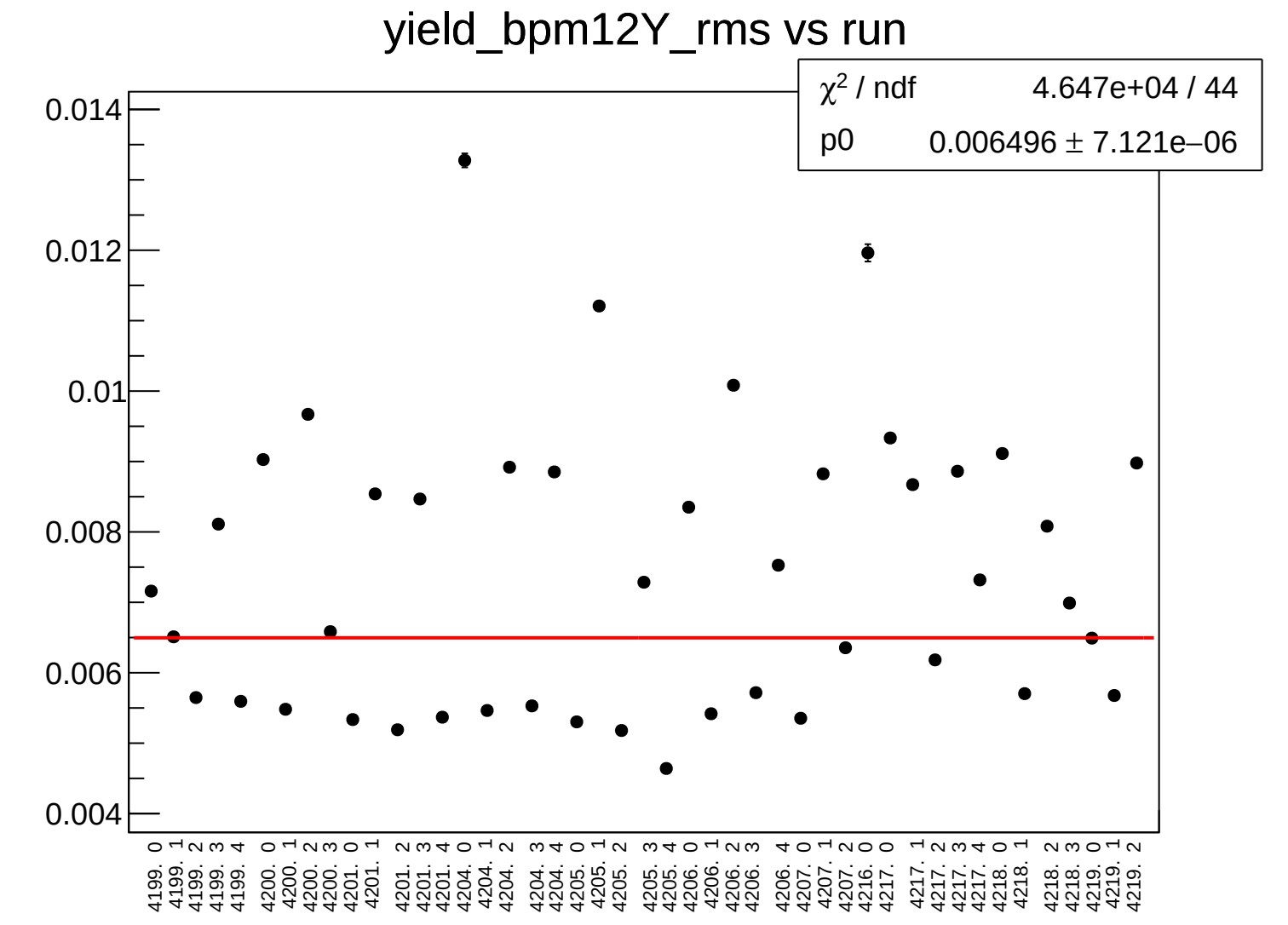

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

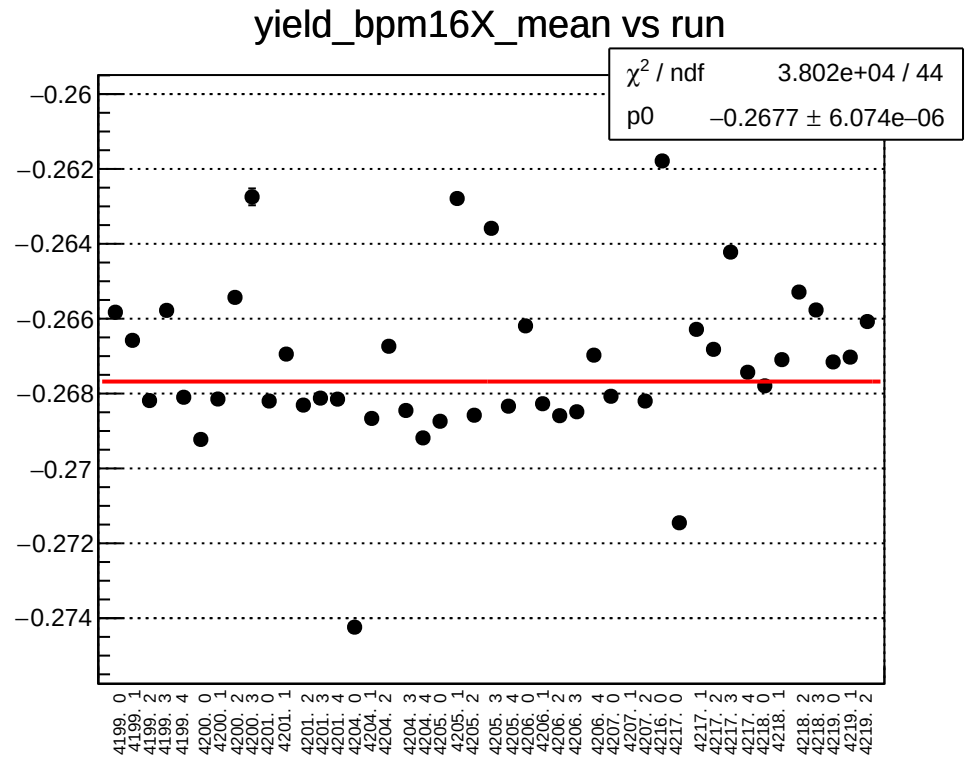

yield_bpm14Y_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

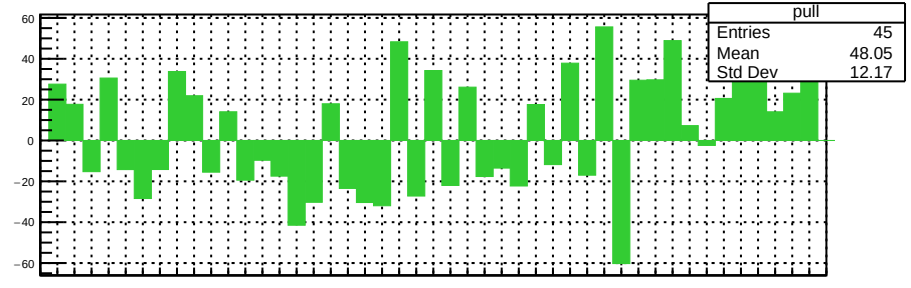

yield_bpm12X_mean vs run
χ² / ndf 4.849e+04 / 44
p0 −0.795 ± 1.056e−05
−0.765
−0.77
−0.775
−0.78
−0.785
−0.79
−0.795
−0.8
−0.805
−0.81
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 27.45
Std Dev 11.53
80
60
40
20
0
−20
−40
pull1D
Entries 45
Mean −1.809
Std Dev 1.838
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

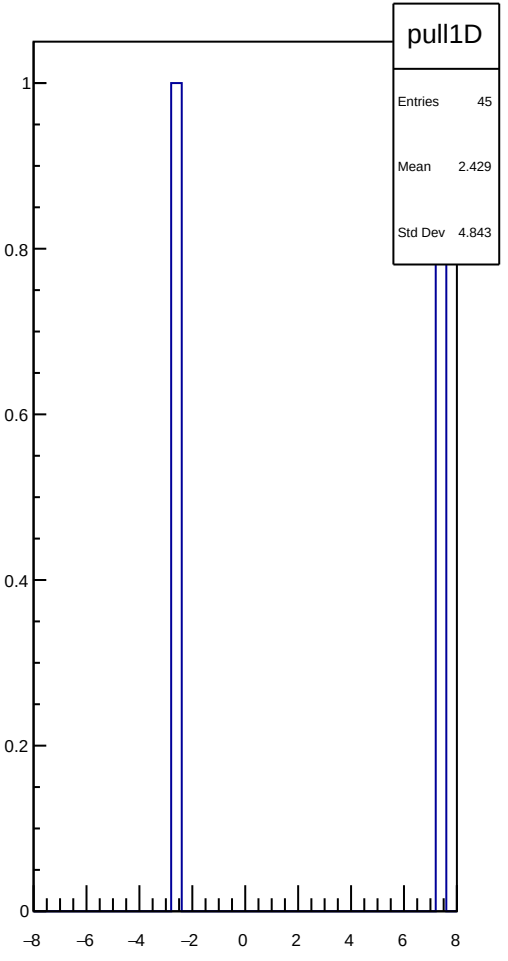

yield_bpm12X_rms vs run
χ² / ndf 2.326e+05 / 44
p0 0.006002 ± 7.468e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

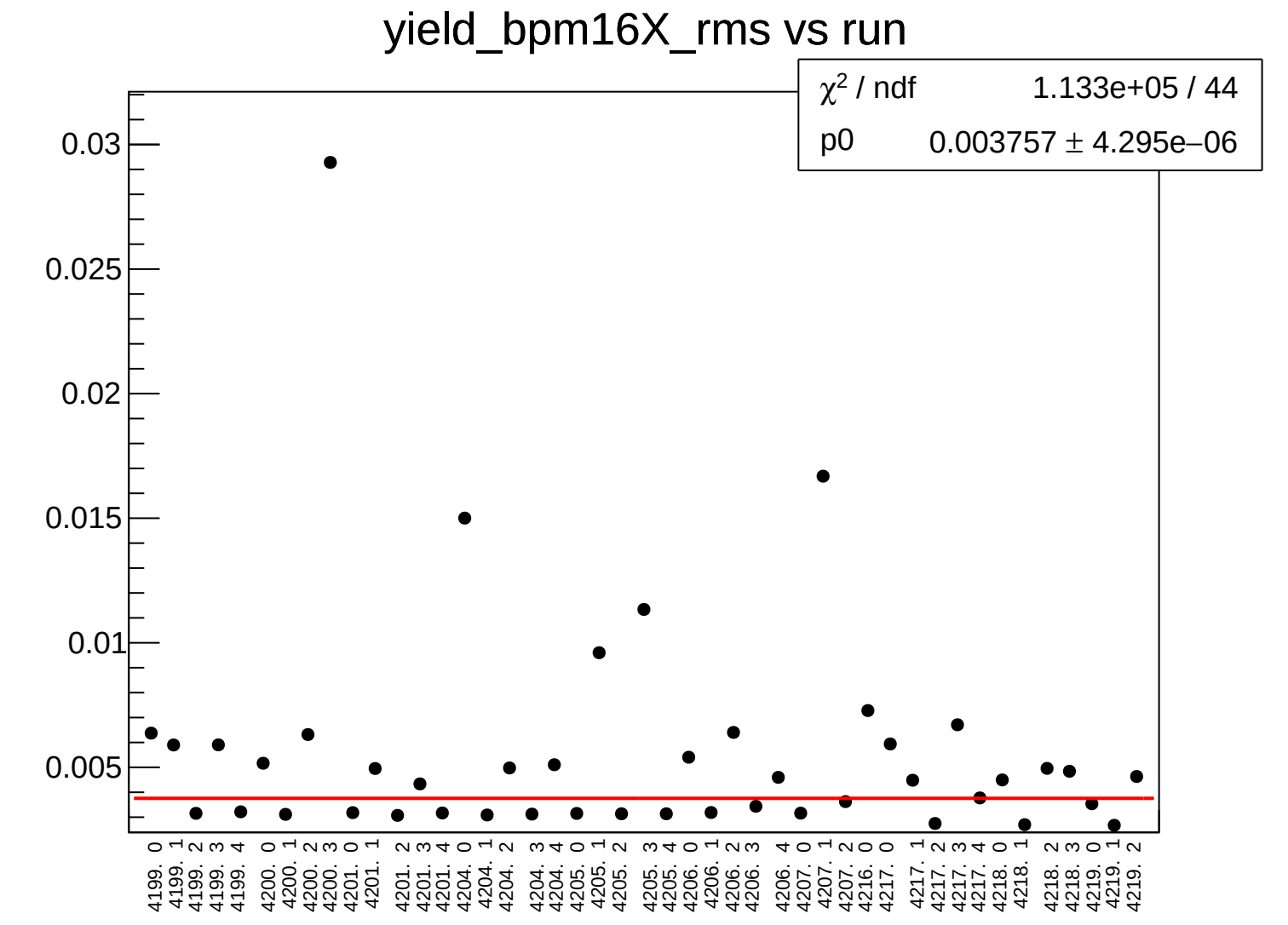

yield_bpm12Y_mean vs run
χ² / ndf 8.05e+07 / 44
p0 1.106 ± 1.007e−05
1.25
1.2
1.15
1.1
1.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 176.3
Std Dev 149.7
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

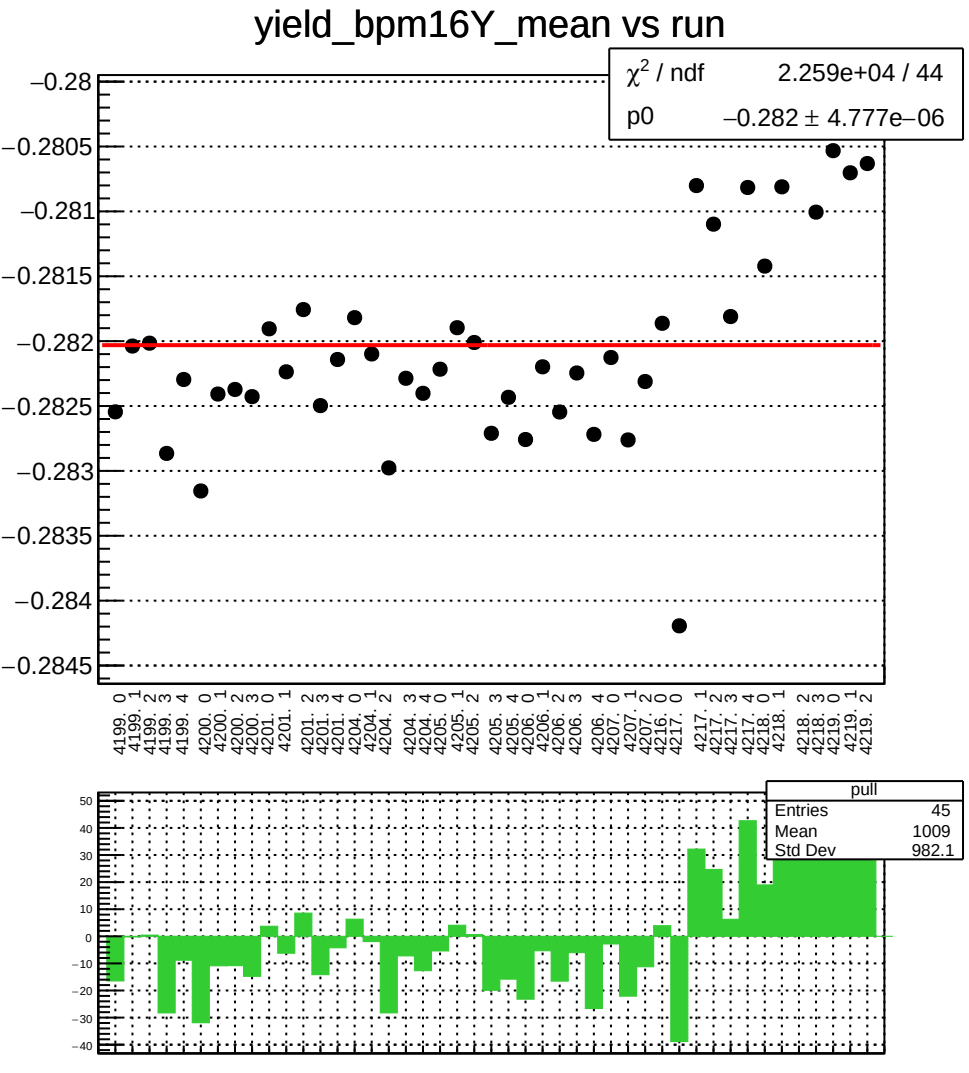

yield_bpm12Y_rms vs run
χ² / ndf 4.647e+04 / 44
p0 0.006496 ± 7.121e−06
0.014
0.012
0.01
0.008
0.006
0.004
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

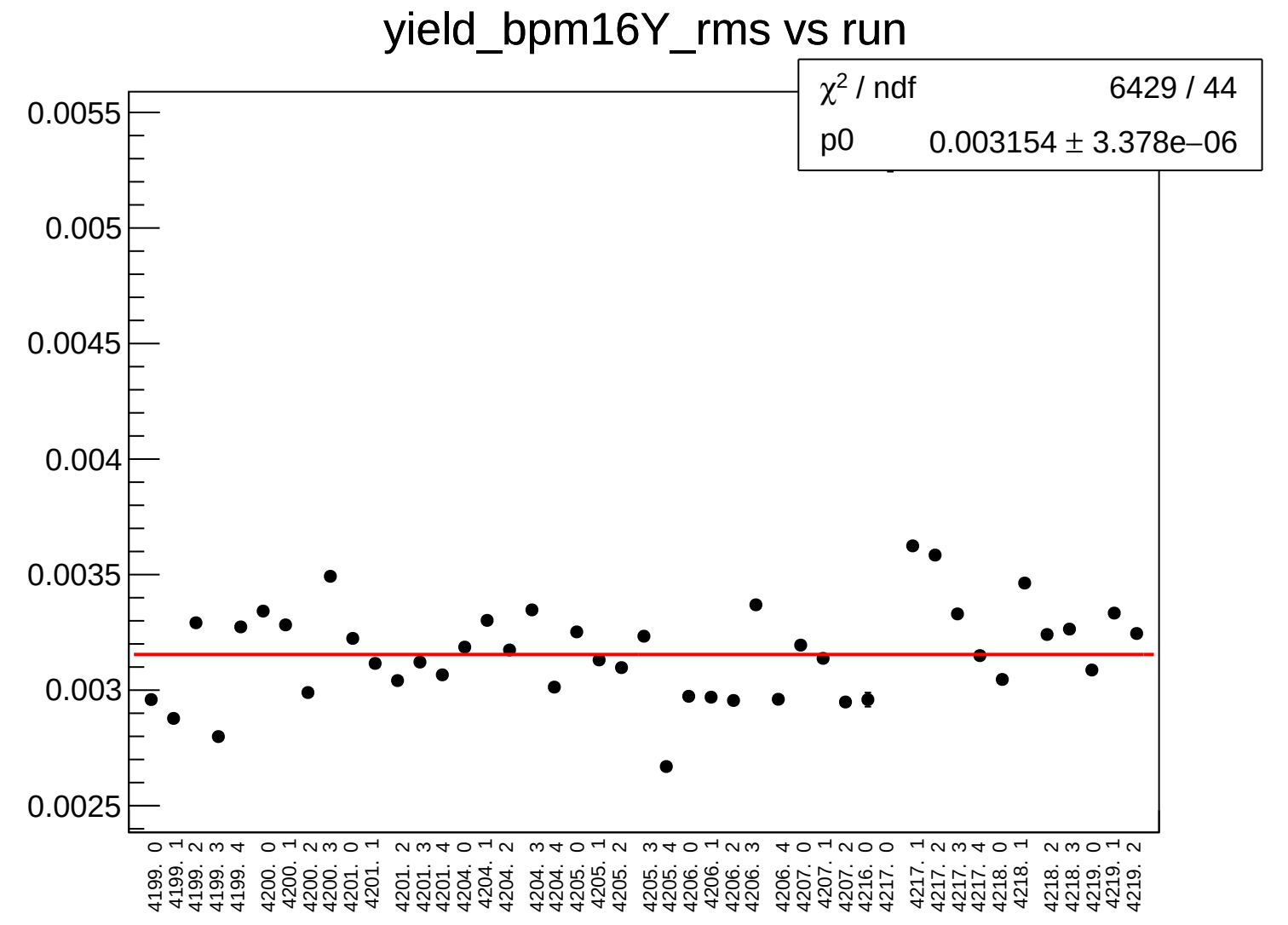

yield_bpm16X_mean vs run
χ² / ndf 3.802e+04 / 44
p0 −0.2677 ± 6.074e−06
−0.26
−0.262
−0.264
−0.266
−0.268
−0.27
−0.272
−0.274
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

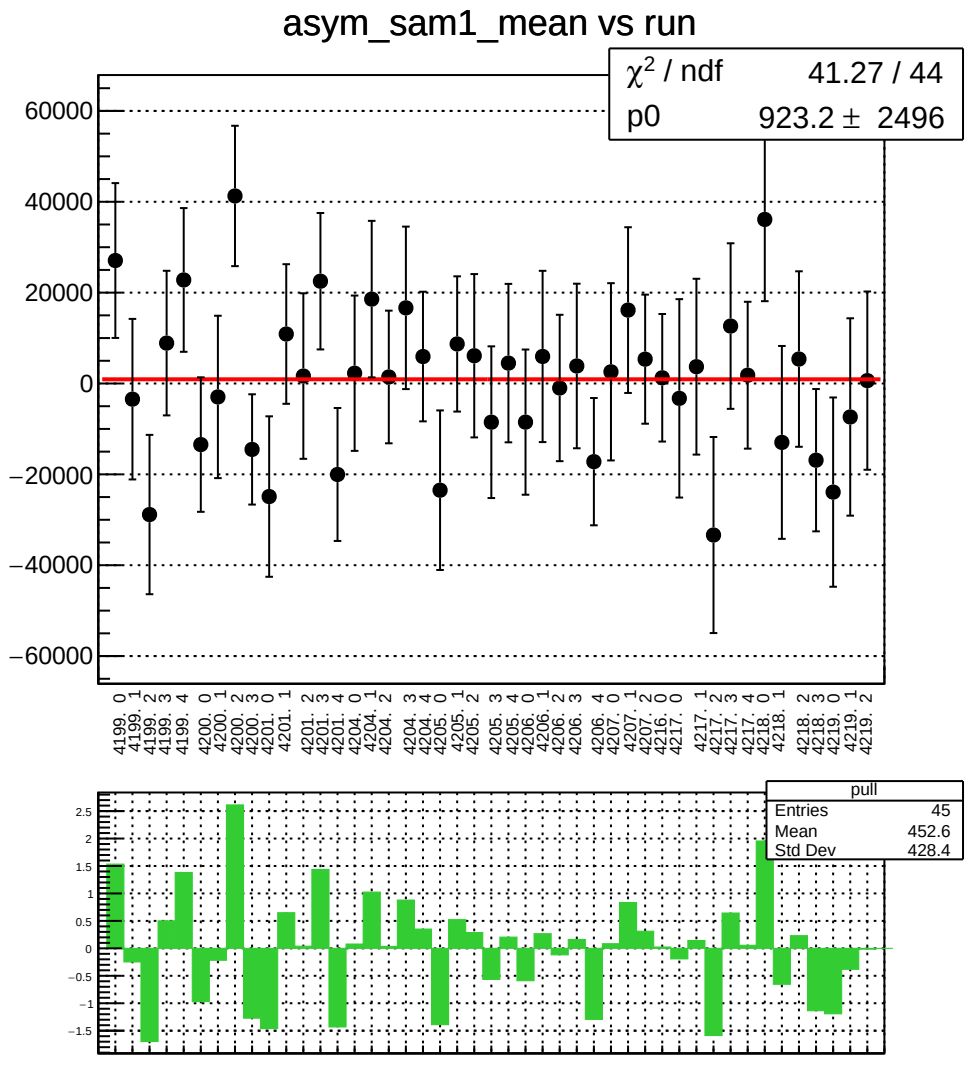

pull
Entries 45
Mean 48.05
Std Dev 12.17
60
40
20
0
−20
−40
−60

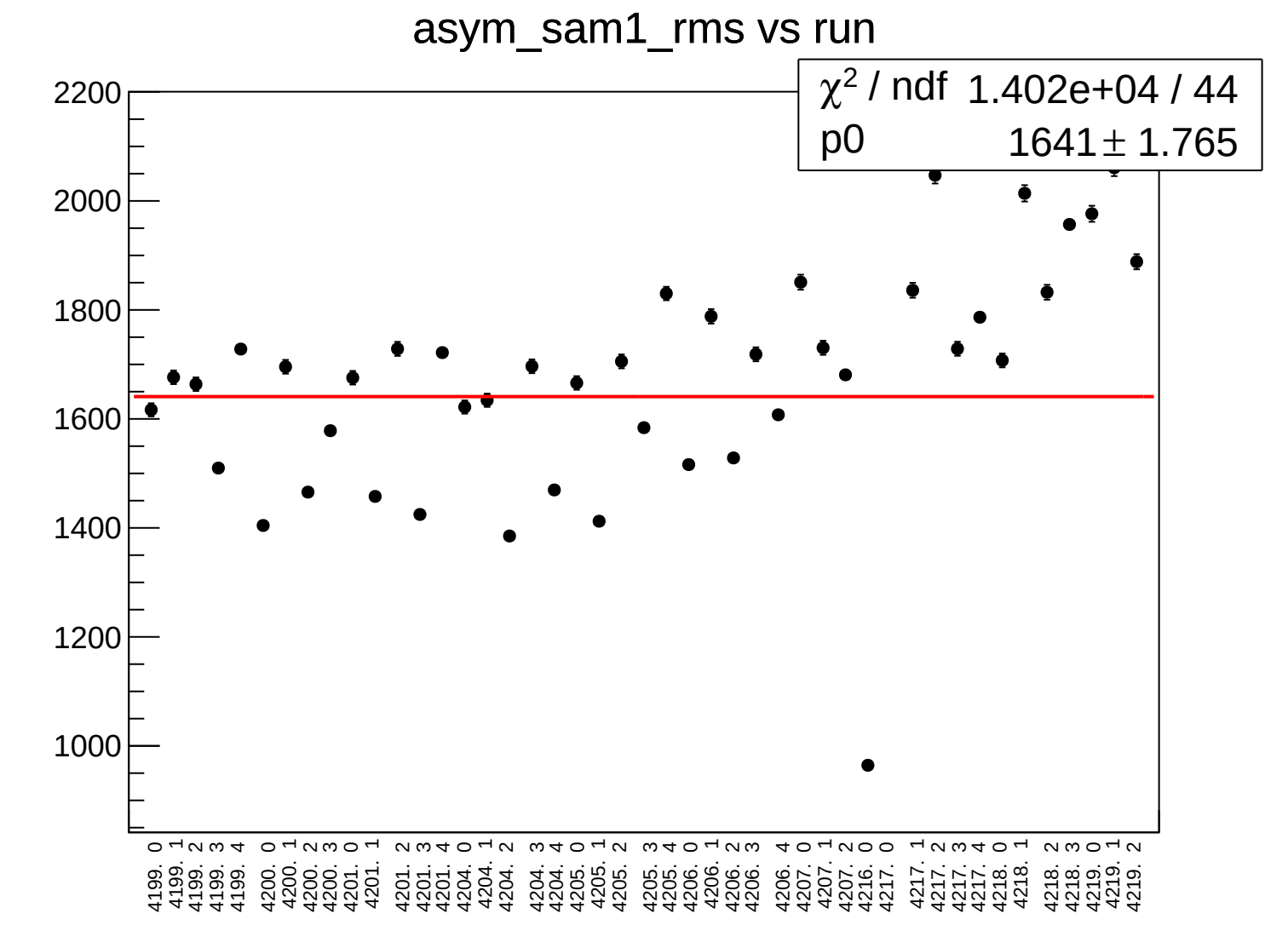

pull1D
Entries 45
Mean 2.429
Std Dev 4.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

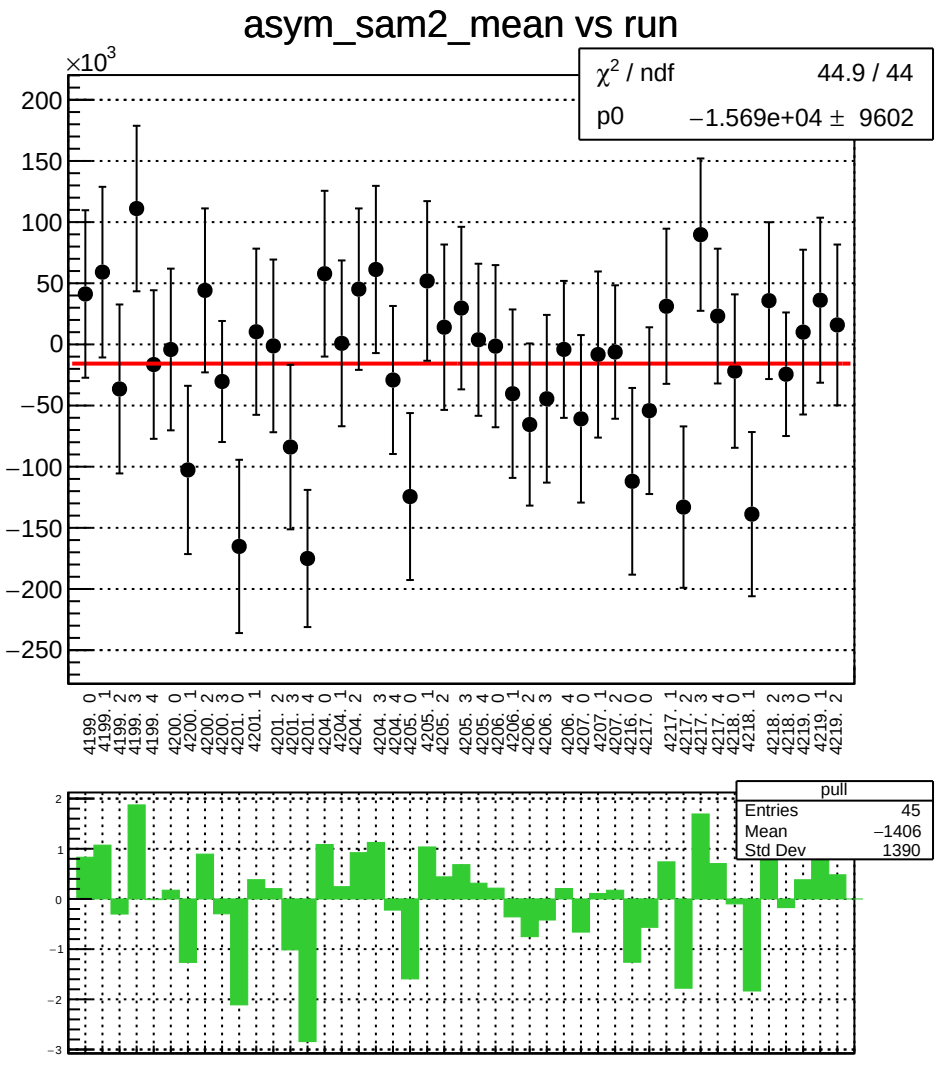

yield_bpm16X_rms vs run
χ² / ndf 1.133e+05 / 44
p0 0.003757 ± 4.295e−06
0.03
0.025
0.02
0.015
0.01
0.005
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

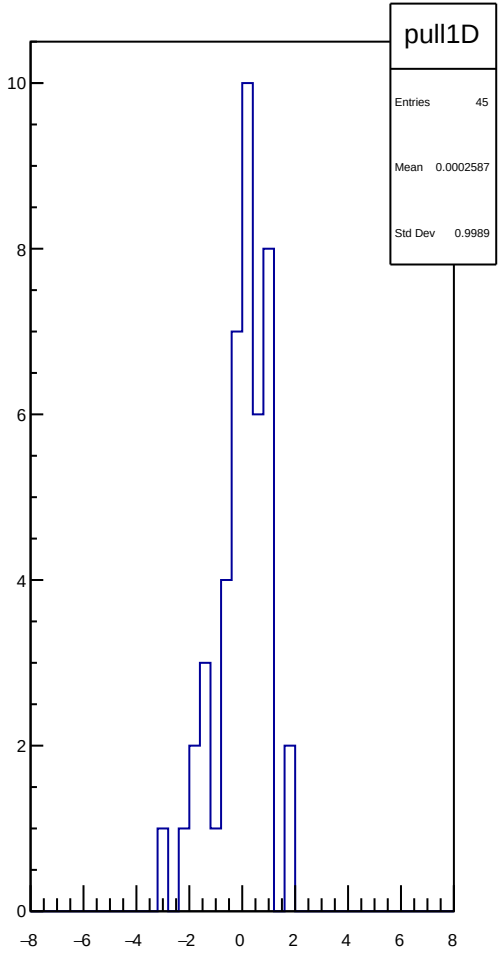

yield_bpm16Y_mean vs run
χ² / ndf 2.259e+04 / 44
p0 −0.282 ± 4.777e−06
−0.28
−0.2805
−0.281
−0.2815
−0.282
−0.2825
−0.283
−0.2835
−0.284
−0.2845
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 1009
Std Dev 982.1
50
40
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 45
Mean −0.8822
Std Dev 4.53
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

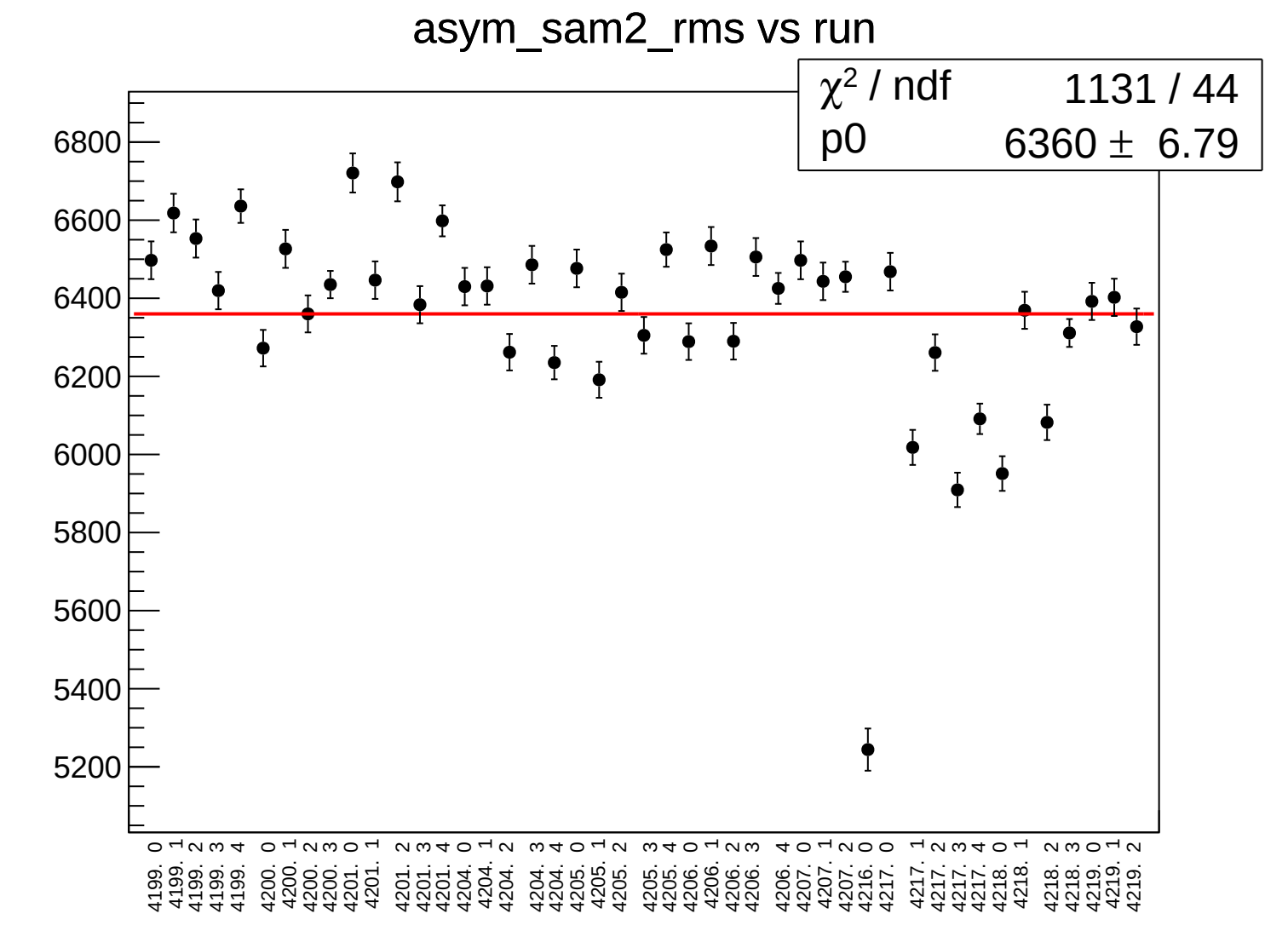

yield_bpm16Y_rms vs run
χ² / ndf 6429 / 44
p0 0.003154 ± 3.378e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

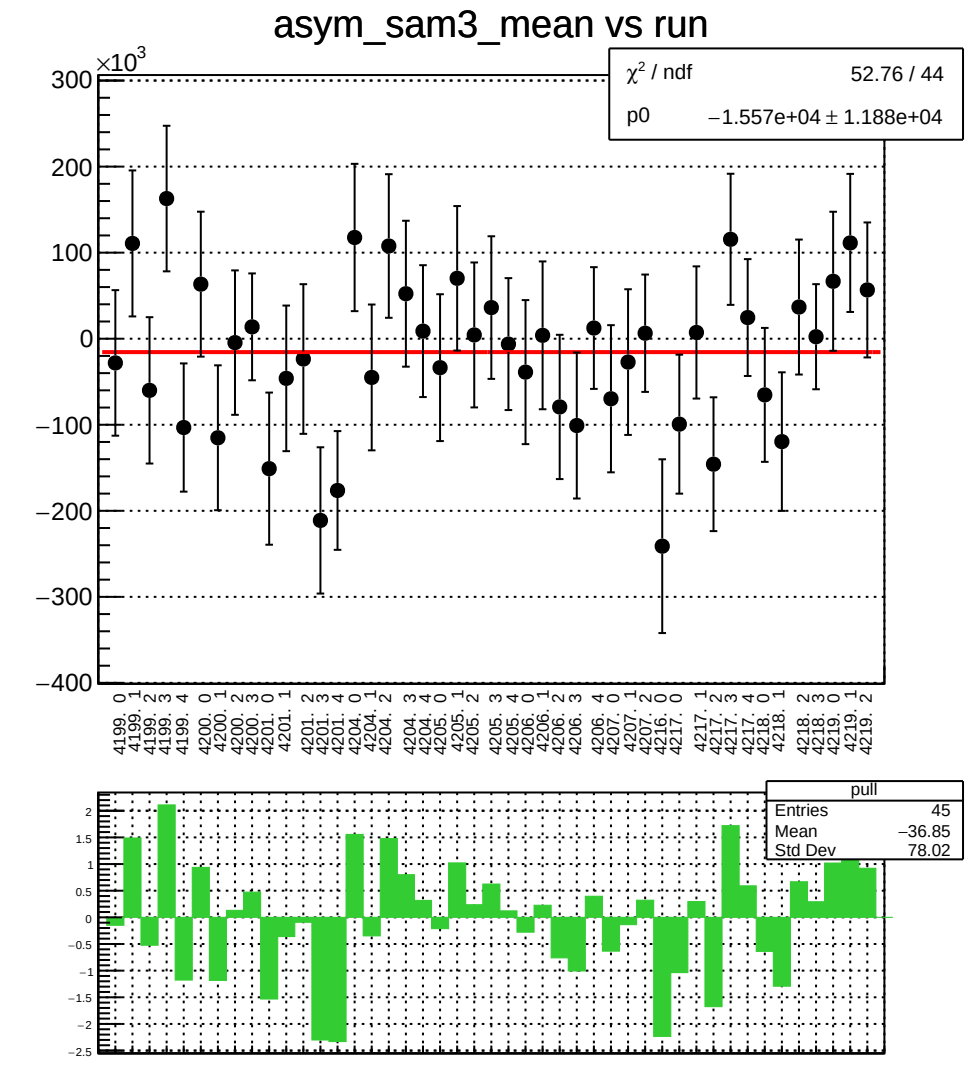

asym_sam1_mean vs run
χ^2 / ndf 41.27 / 44
p0 923.2 ± 2496
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 452.6
Std Dev 428.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.00362
Std Dev 0.9576
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

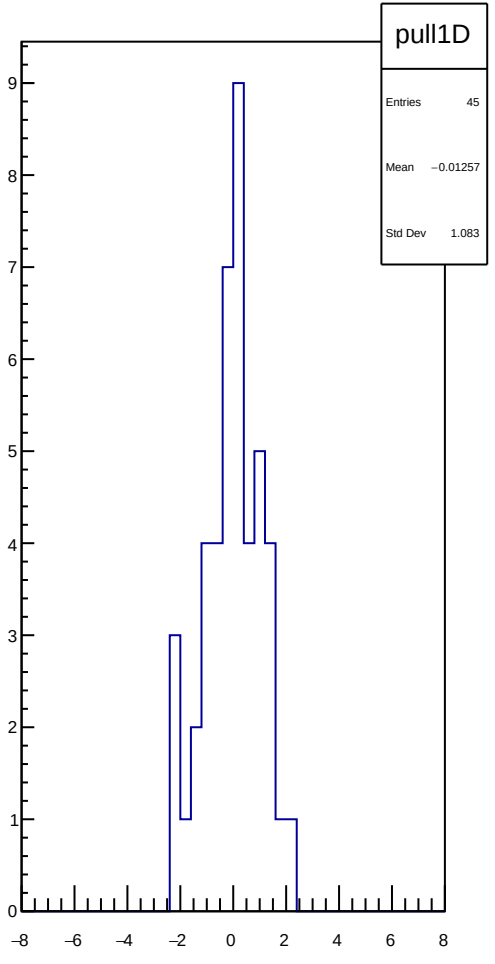

asym_sam1_rms vs run
χ² / ndf 1.402e+04 / 44
p0 1641 ± 1.765
2200
2000
1800
1600
1400
1200
1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

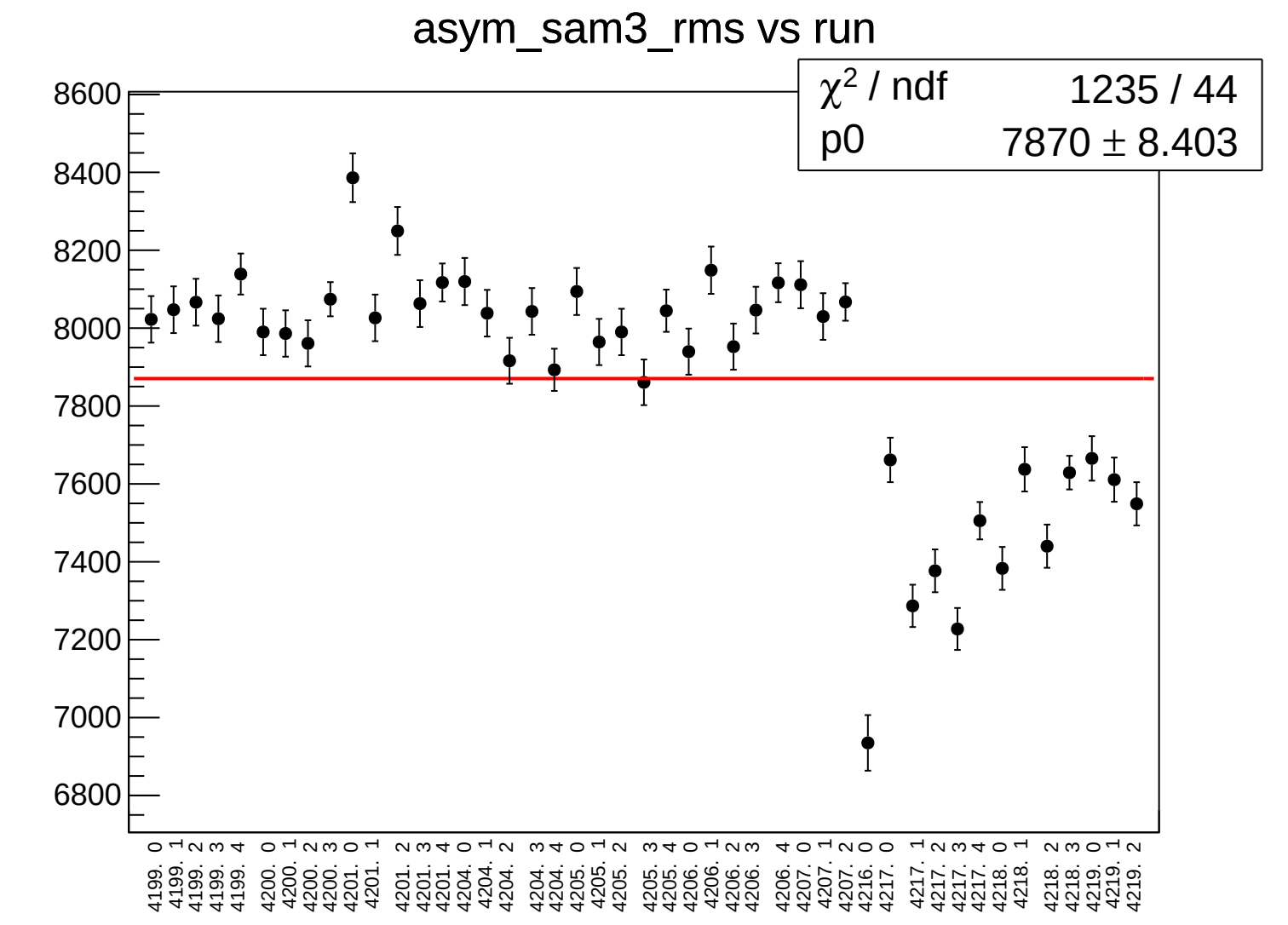

asym_sam2_mean vs run
×10^3
χ² / ndf 44.9 / 44
p0 −1.569e+04 ± 9602
200
150
100
50
0
−50
−100
−150
−200
−250
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1406
Std Dev 1390
2
1
0
−1
−2
−3

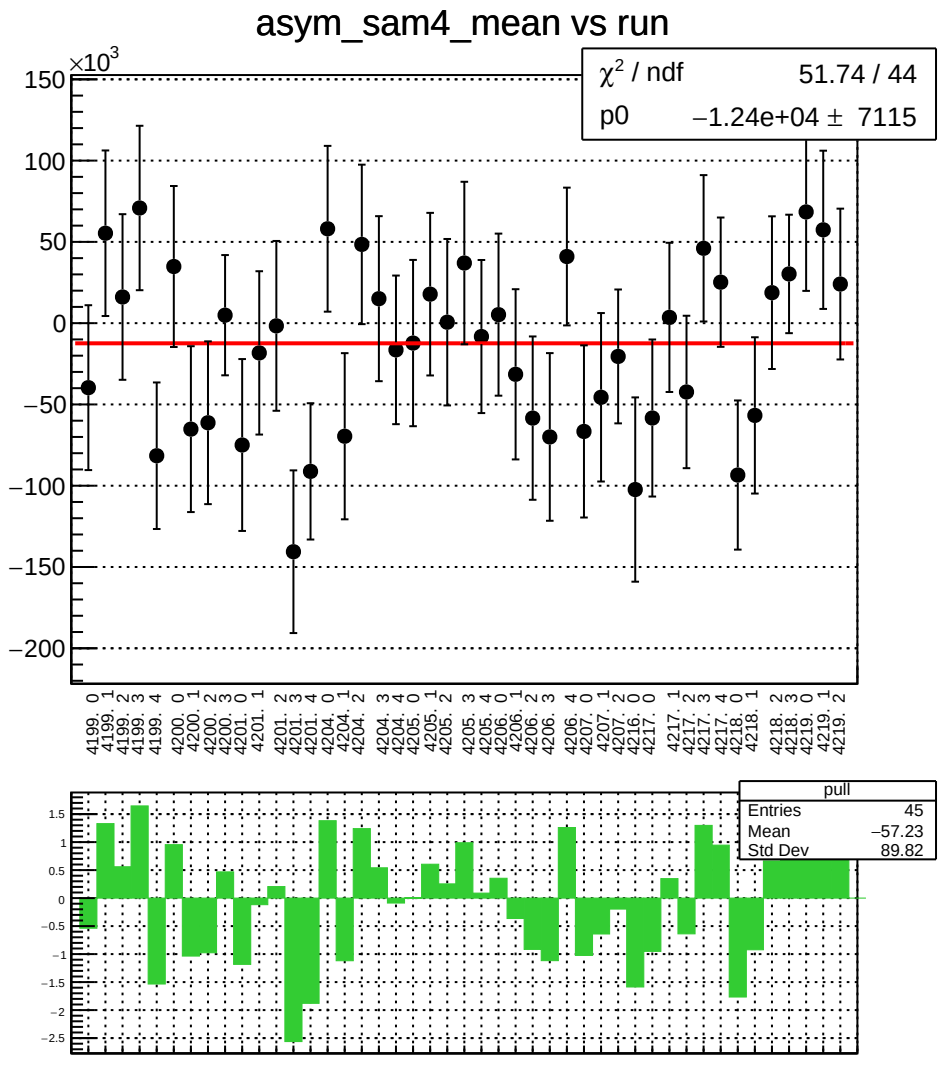

pull1D
Entries 45
Mean 0.0002587
Std Dev 0.9989
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

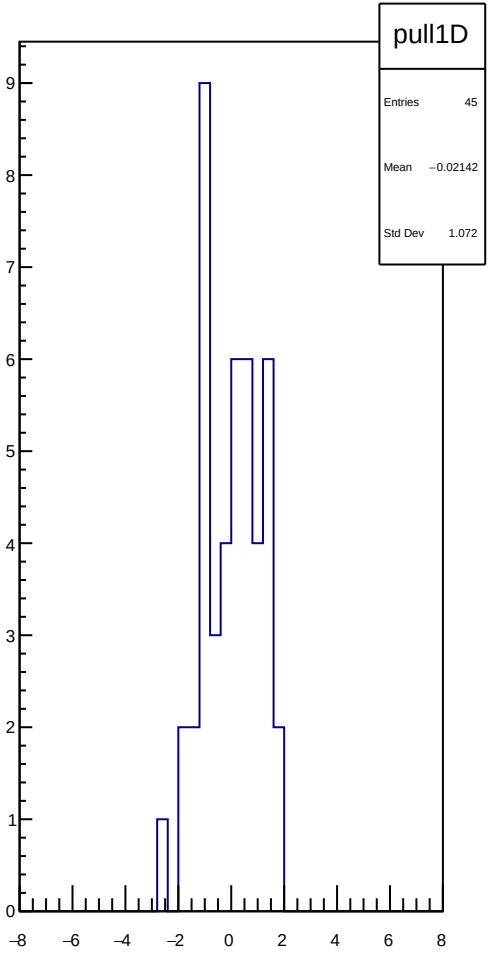

asym_sam2_rms vs run
χ² / ndf 1131 / 44
p0 6360 ± 6.79
6800
6600
6400
6200
6000
5800
5600
5400
5200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

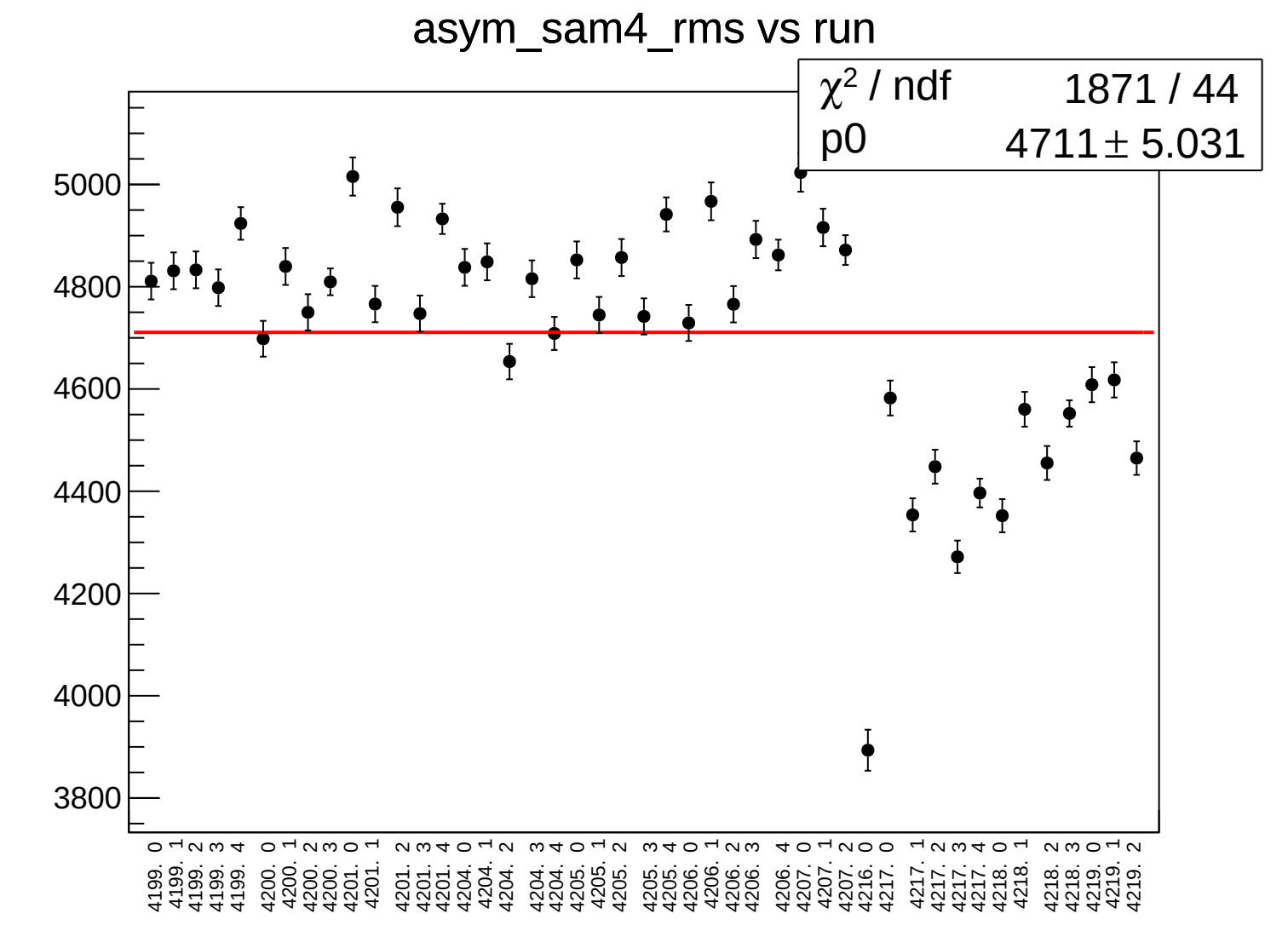

asym_sam3_mean vs run
×10^3
χ² / ndf 52.76 / 44
p0 −1.557e+04 ± 1.188e+04
pull
Entries 45
Mean −36.85
Std Dev 78.02

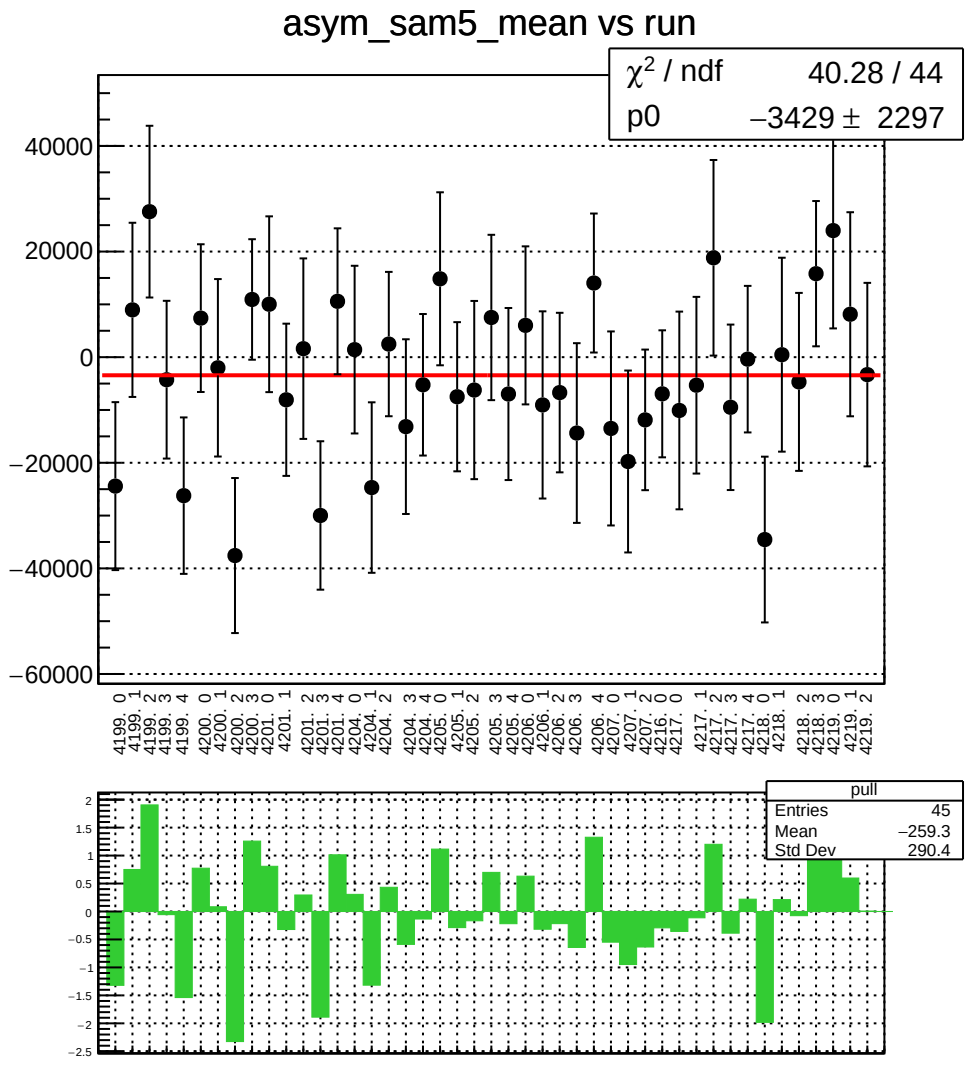

pull1D
Entries 45
Mean −0.01257
Std Dev 1.083

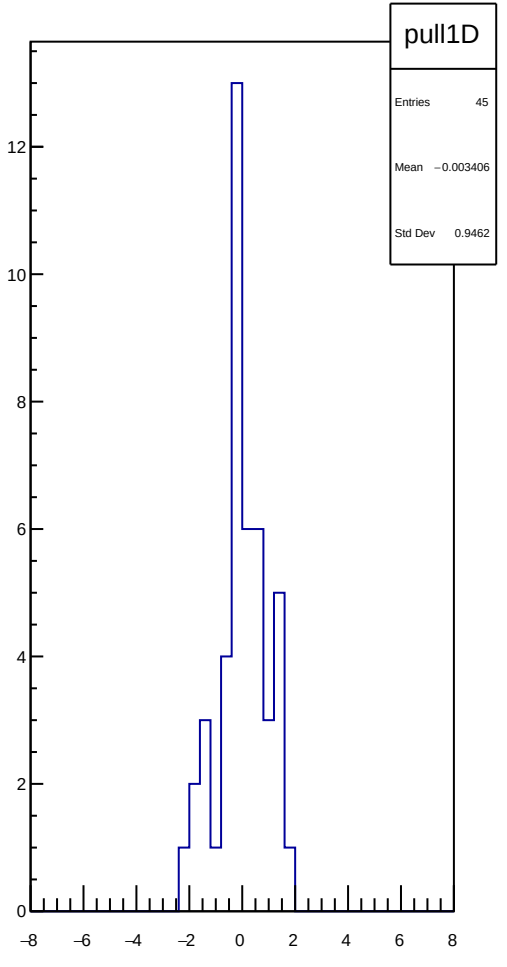

asym_sam3_rms vs run
χ² / ndf 1235 / 44
p0 7870 ± 8.403
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

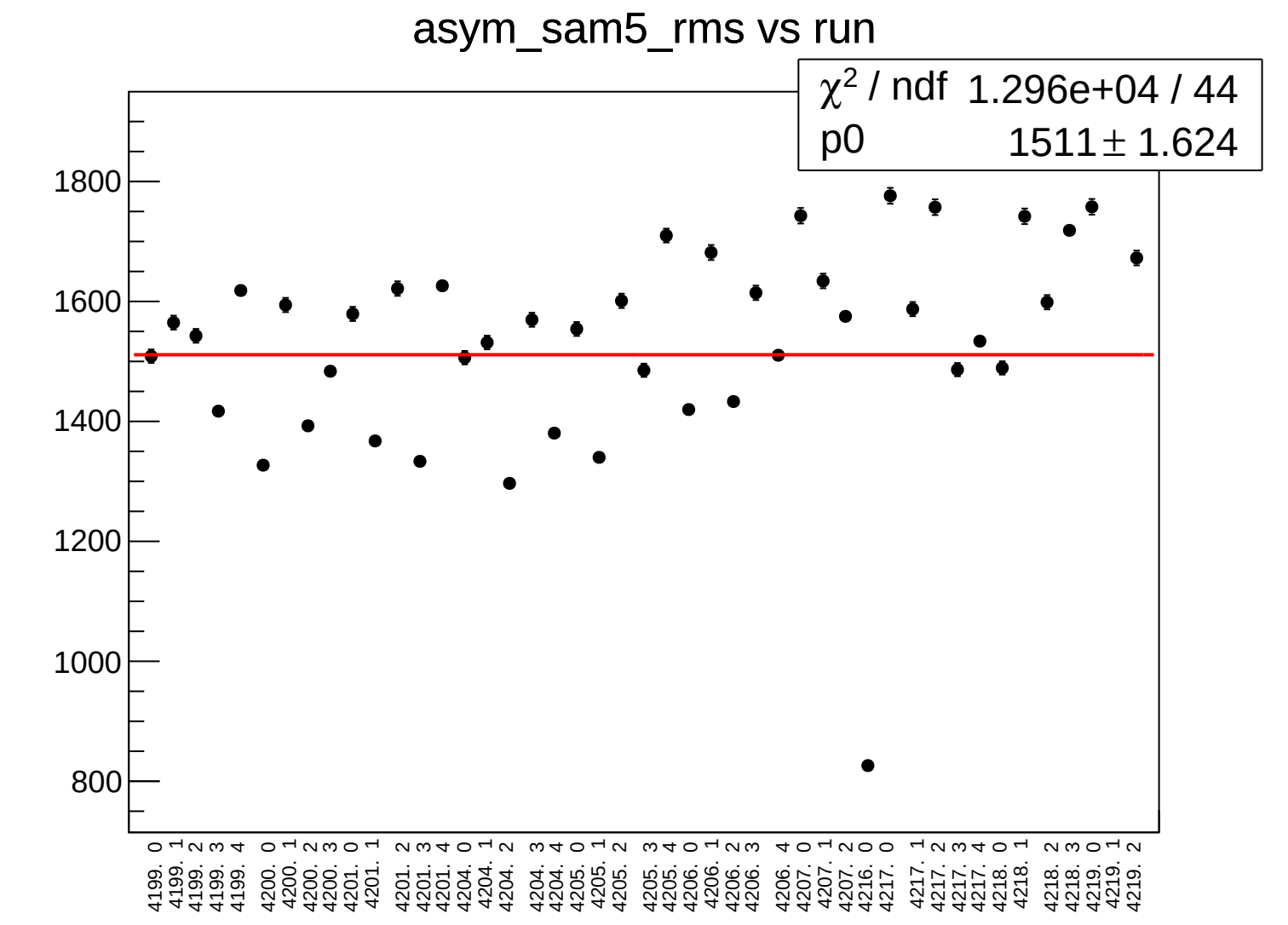

asym_sam4_mean vs run
×10^3
χ² / ndf 51.74 / 44
p0 −1.24e+04 ± 7115
150
100
50
0
−50
−100
−150
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −57.23
Std Dev 89.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

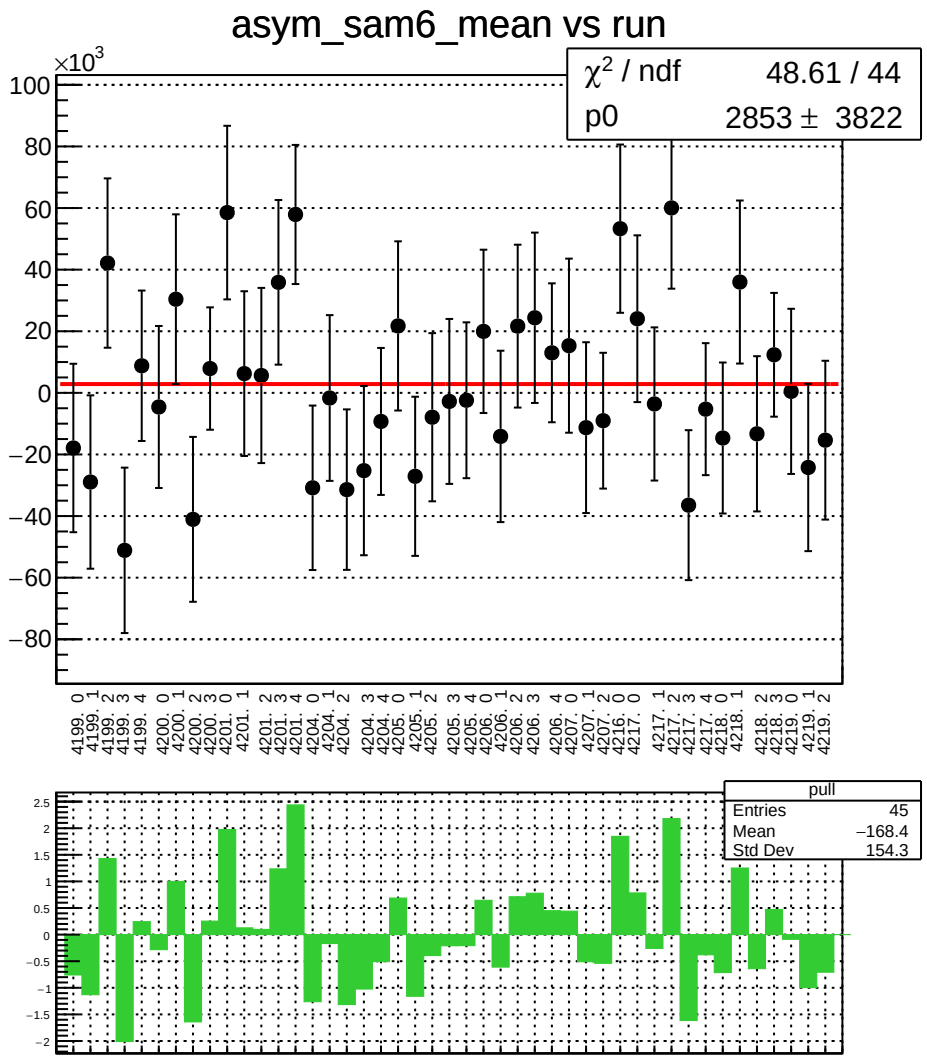

pull1D
Entries 45
Mean −0.02142
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

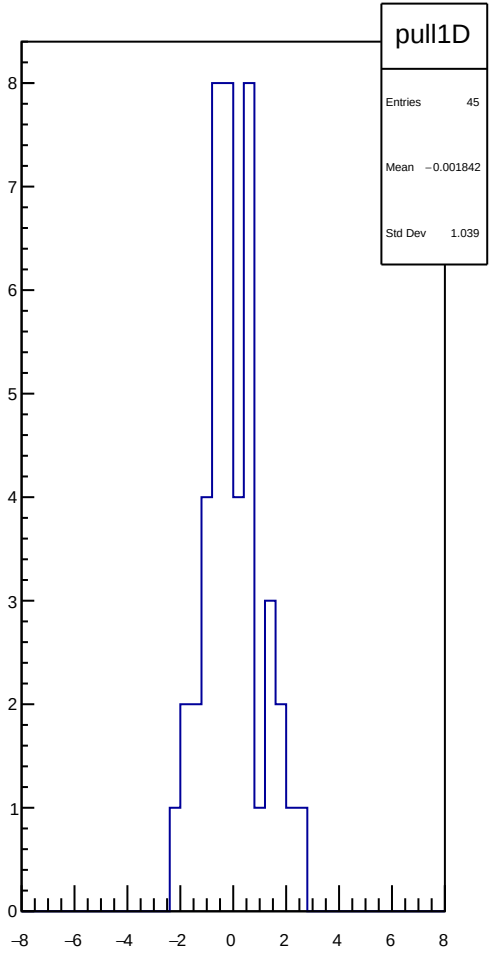

asym_sam4_rms vs run
χ² / ndf 1871 / 44
p0 4711 ± 5.031
5000
4800
4600
4400
4200
4000
3800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

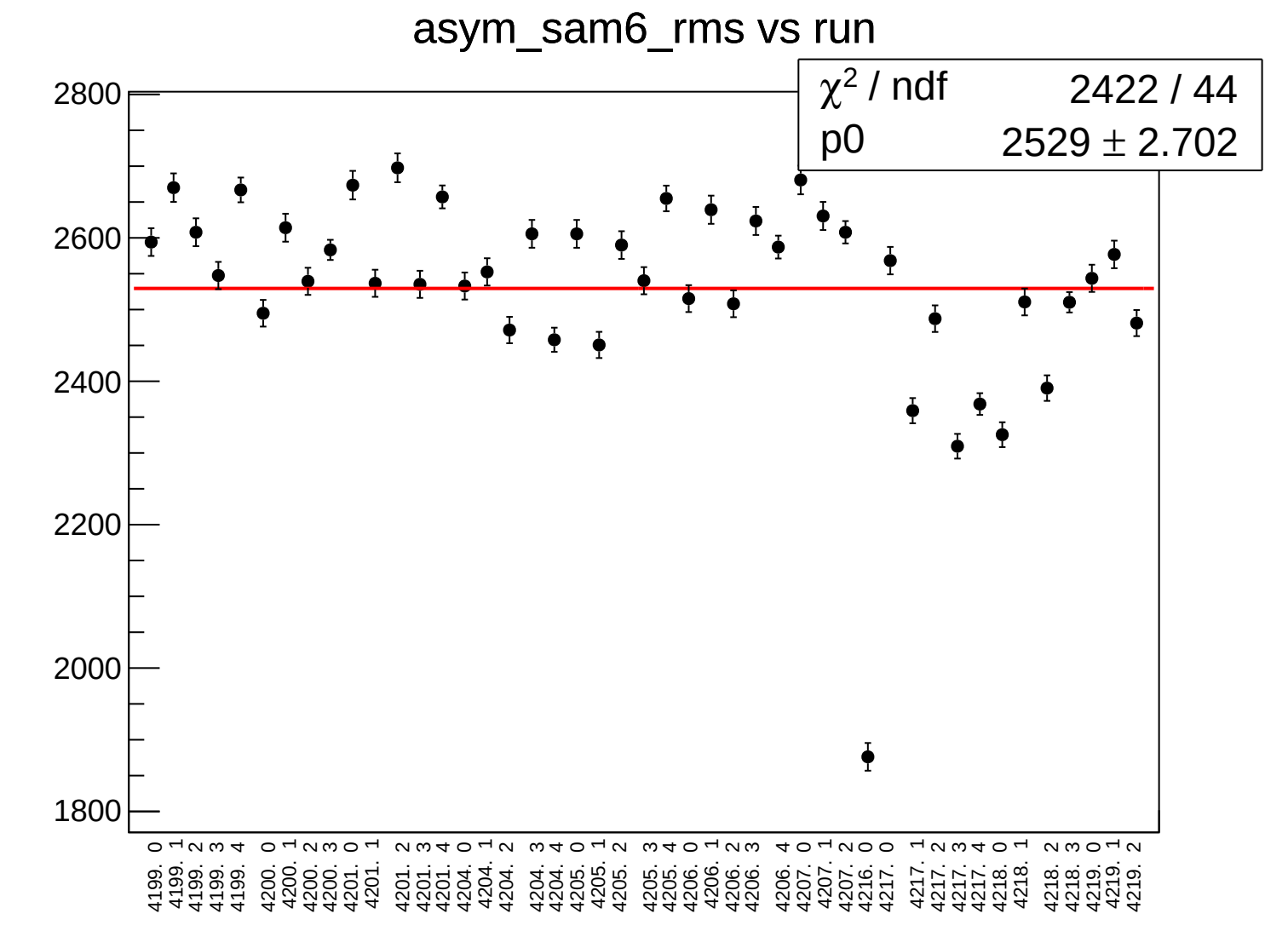

asym_sam5_mean vs run
χ² / ndf 40.28 / 44
p0 −3429 ± 2297
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −259.3
Std Dev 290.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

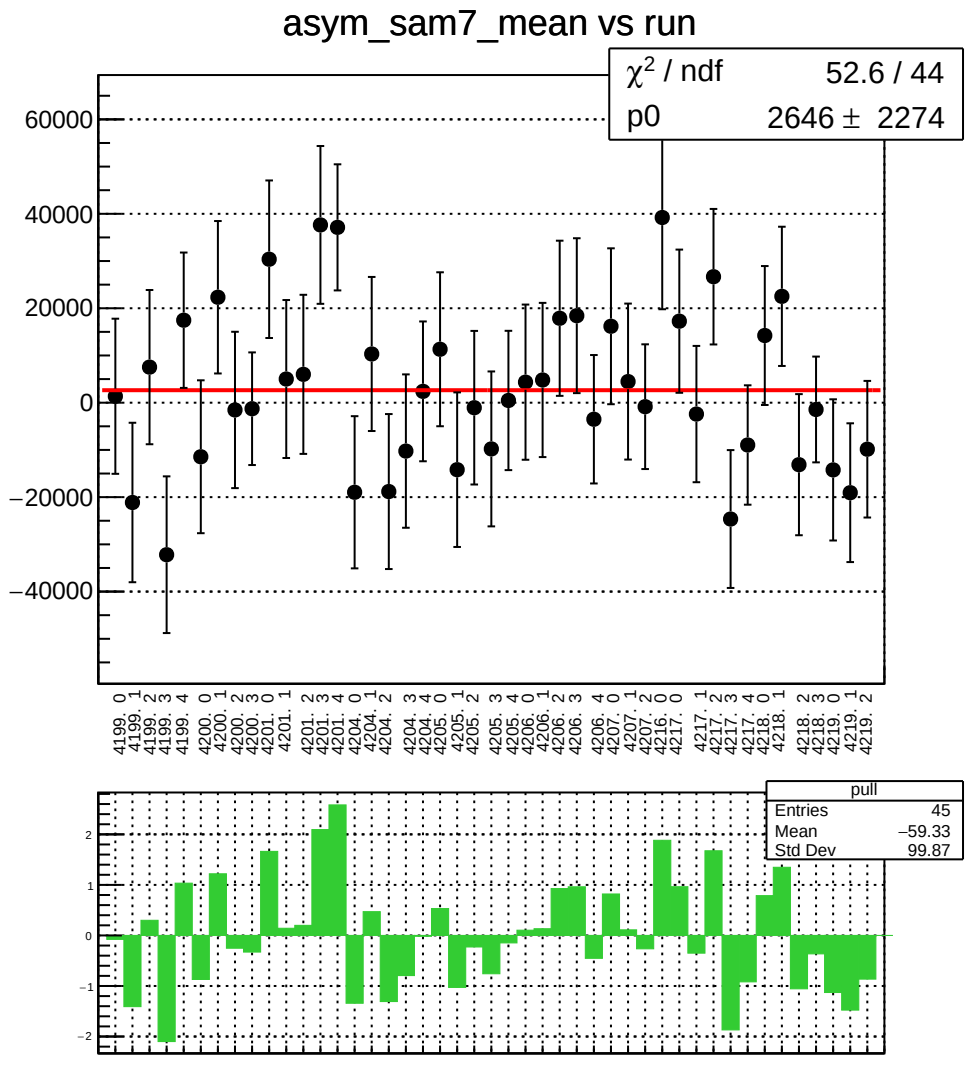

pull1D
Entries 45
Mean −0.003406
Std Dev 0.9462
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

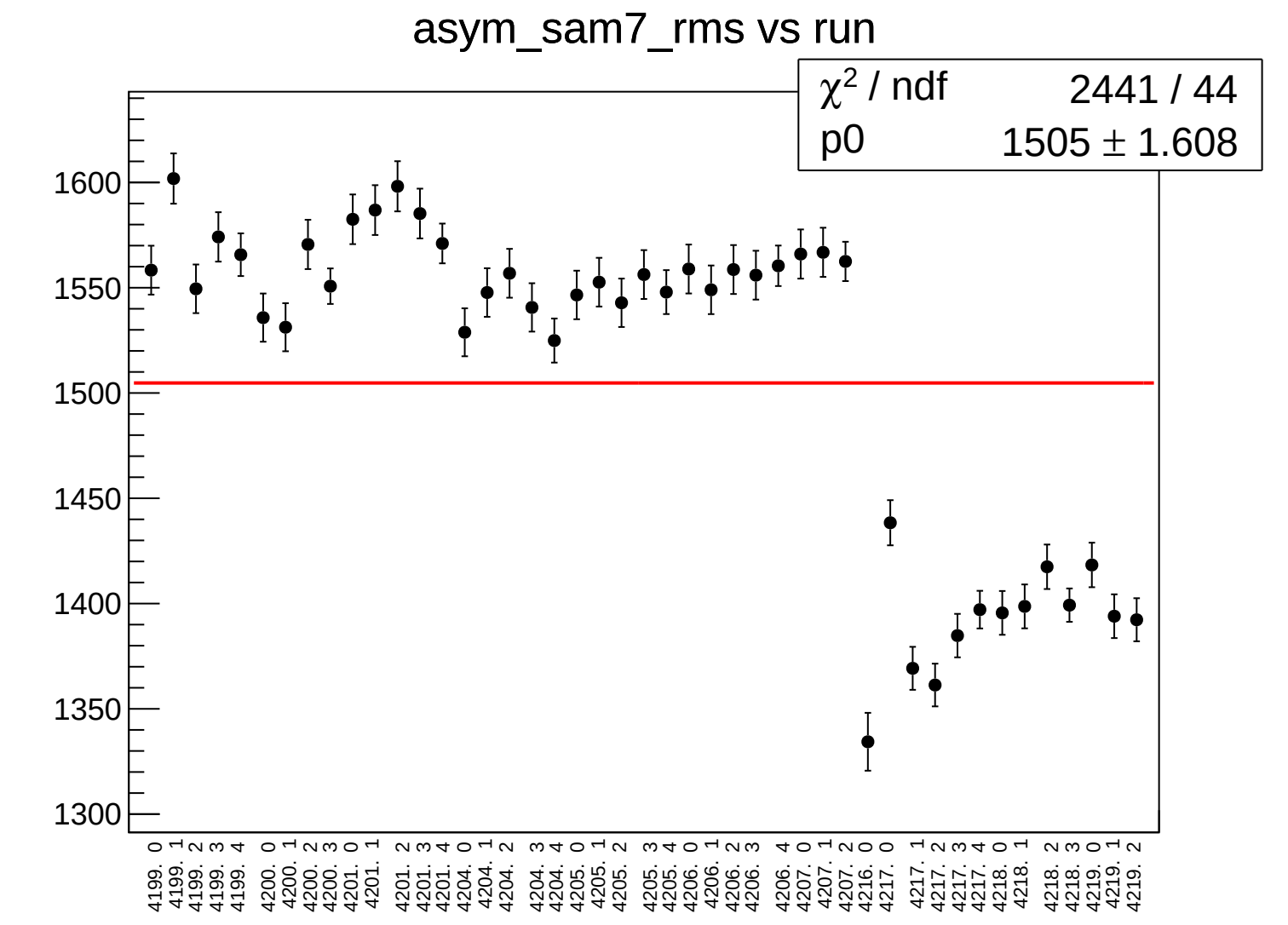

asym_sam5_rms vs run
χ² / ndf 1.296e+04 / 44
p0 1511 ± 1.624
1800
1600
1400
1200
1000
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

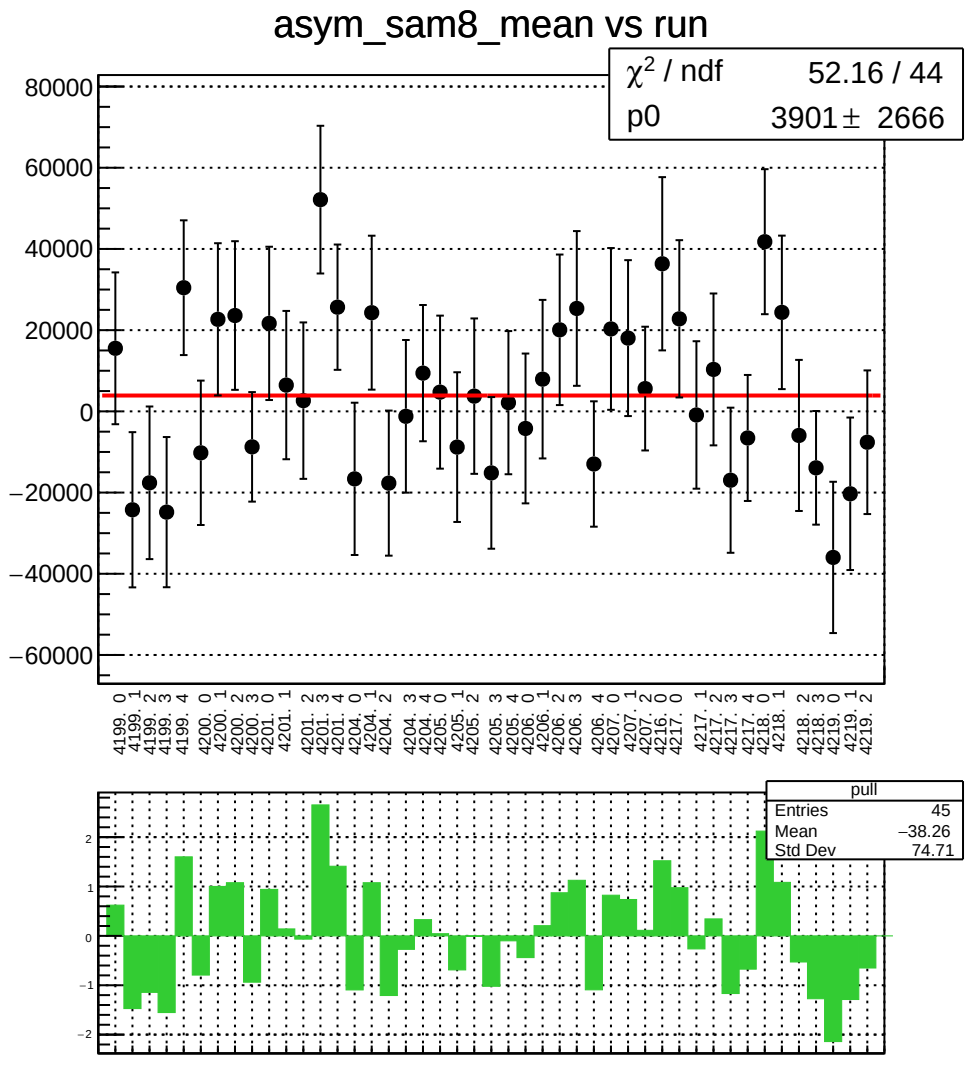

asym_sam6_mean vs run
×10^3
χ² / ndf 48.61 / 44
p0 2853 ± 3822
pull
Entries 45
Mean −168.4
Std Dev 154.3

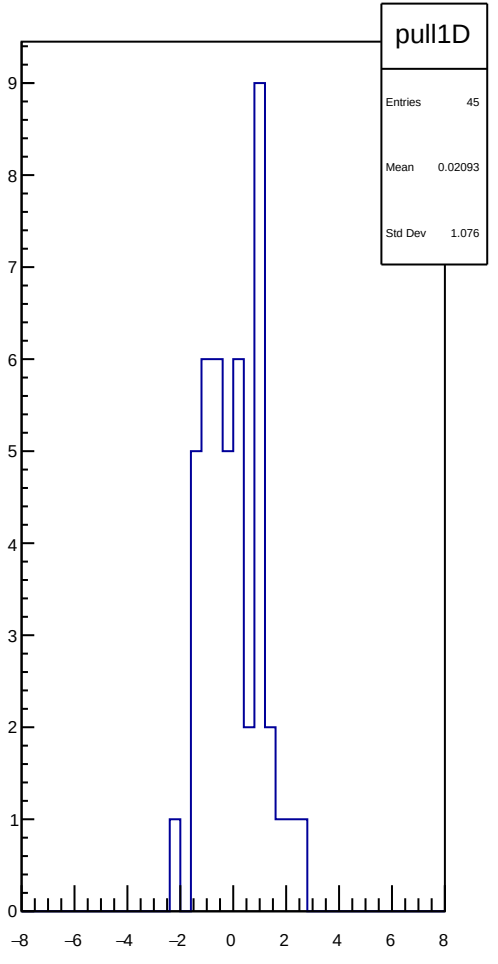

pull1D
Entries 45
Mean −0.001842
Std Dev 1.039

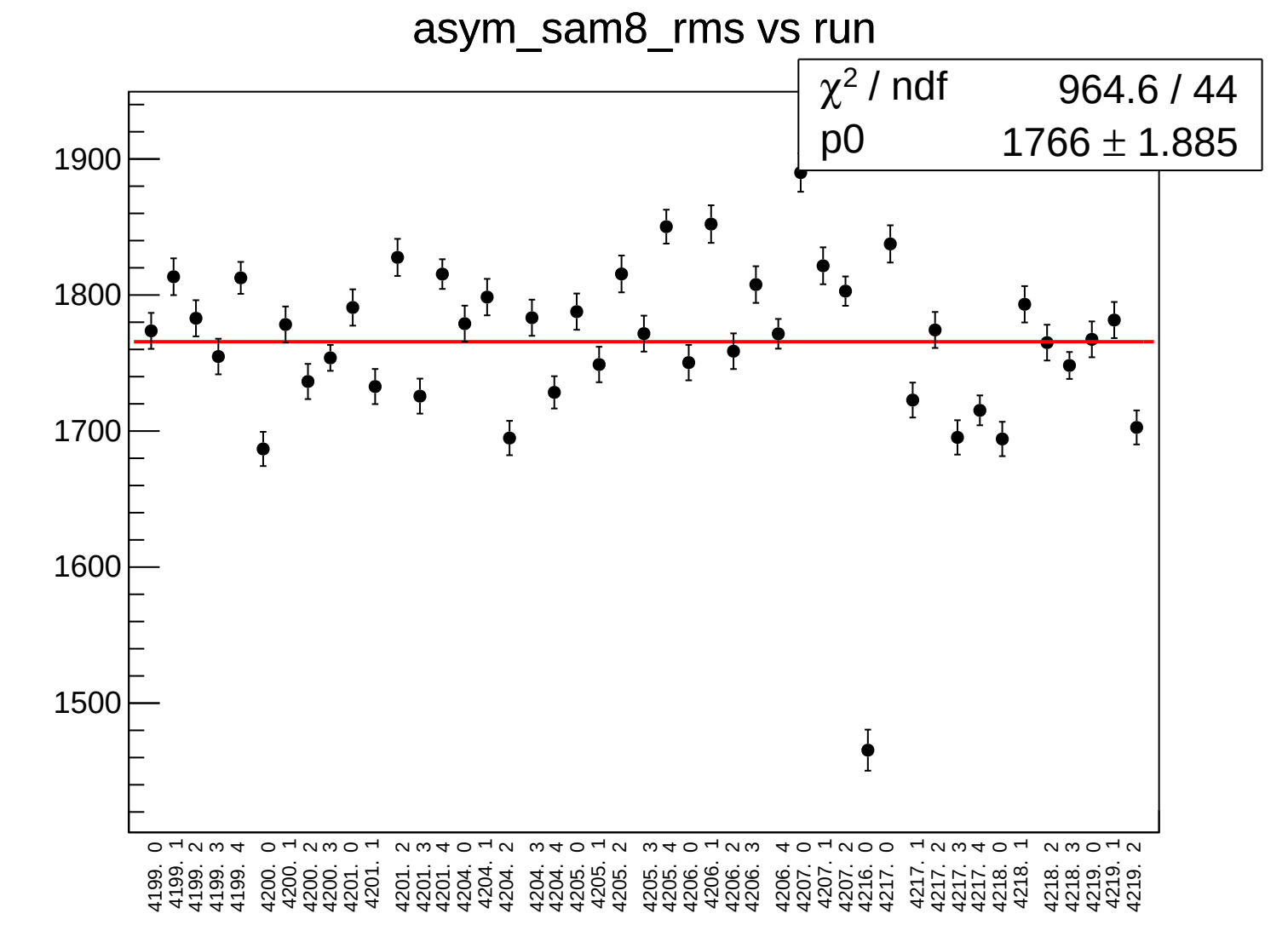

asym_sam6_rms vs run
χ² / ndf 2422 / 44
p0 2529 ± 2.702
2800
2600
2400
2200
2000
1800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

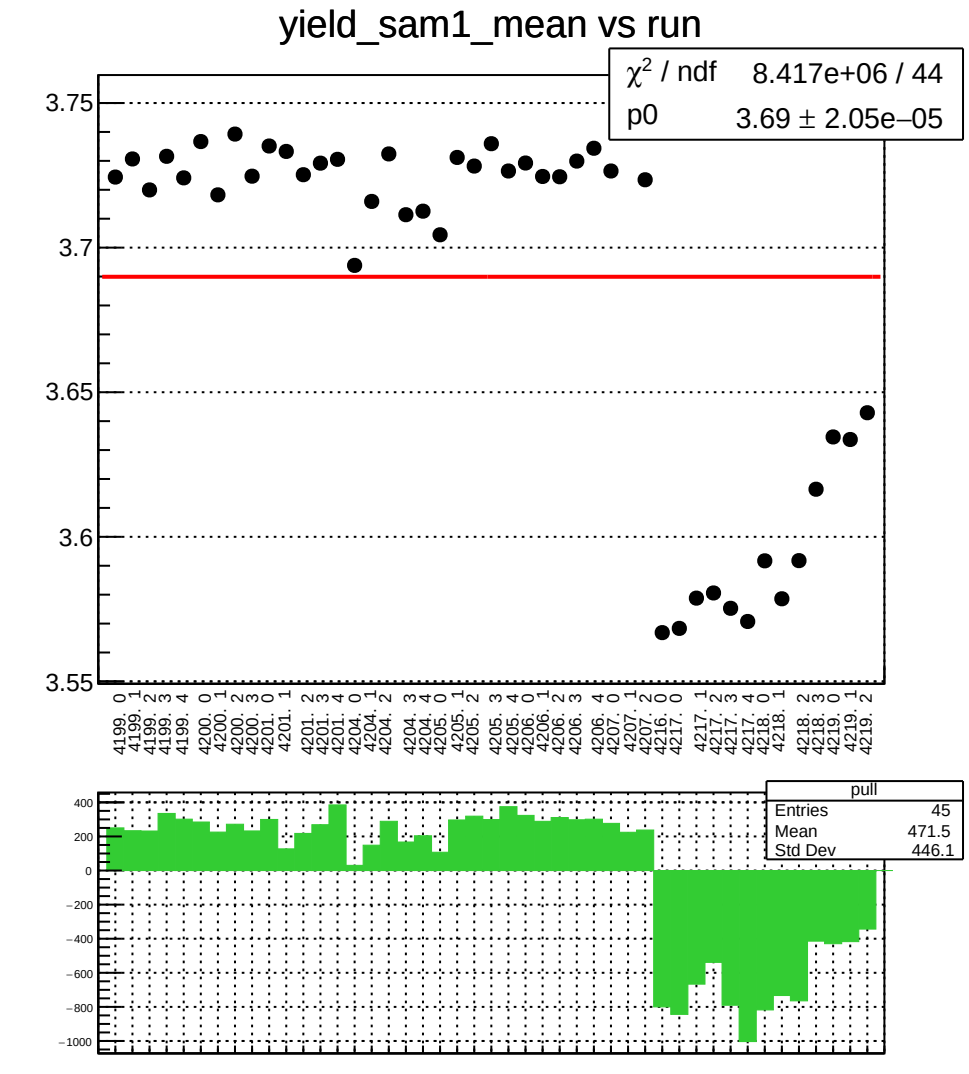

asym_sam7_mean vs run
χ² / ndf 52.6 / 44
p0 2646 ± 2274
60000
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −59.33
Std Dev 99.87
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01218
Std Dev 1.081
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

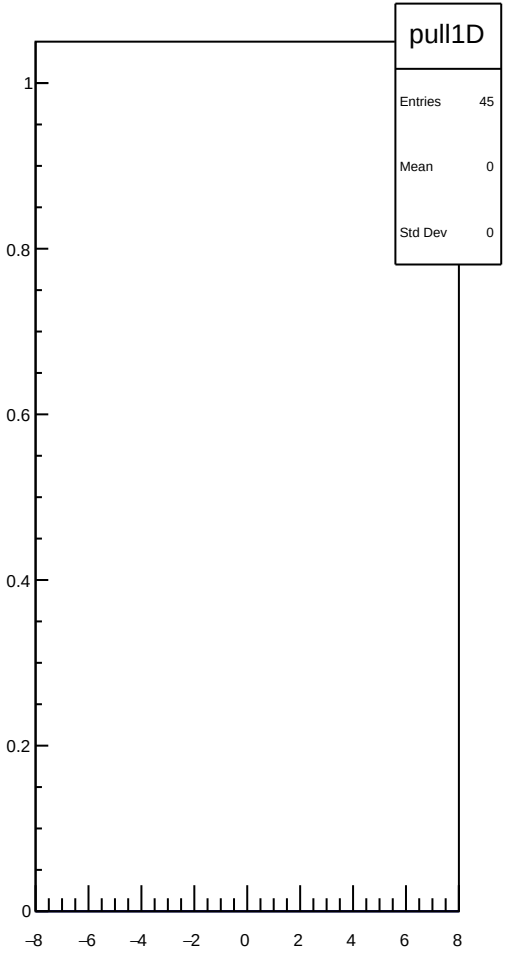

asym_sam7_rms vs run
χ² / ndf 2441 / 44
p0 1505 ± 1.608
1600
1550
1500
1450
1400
1350
1300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

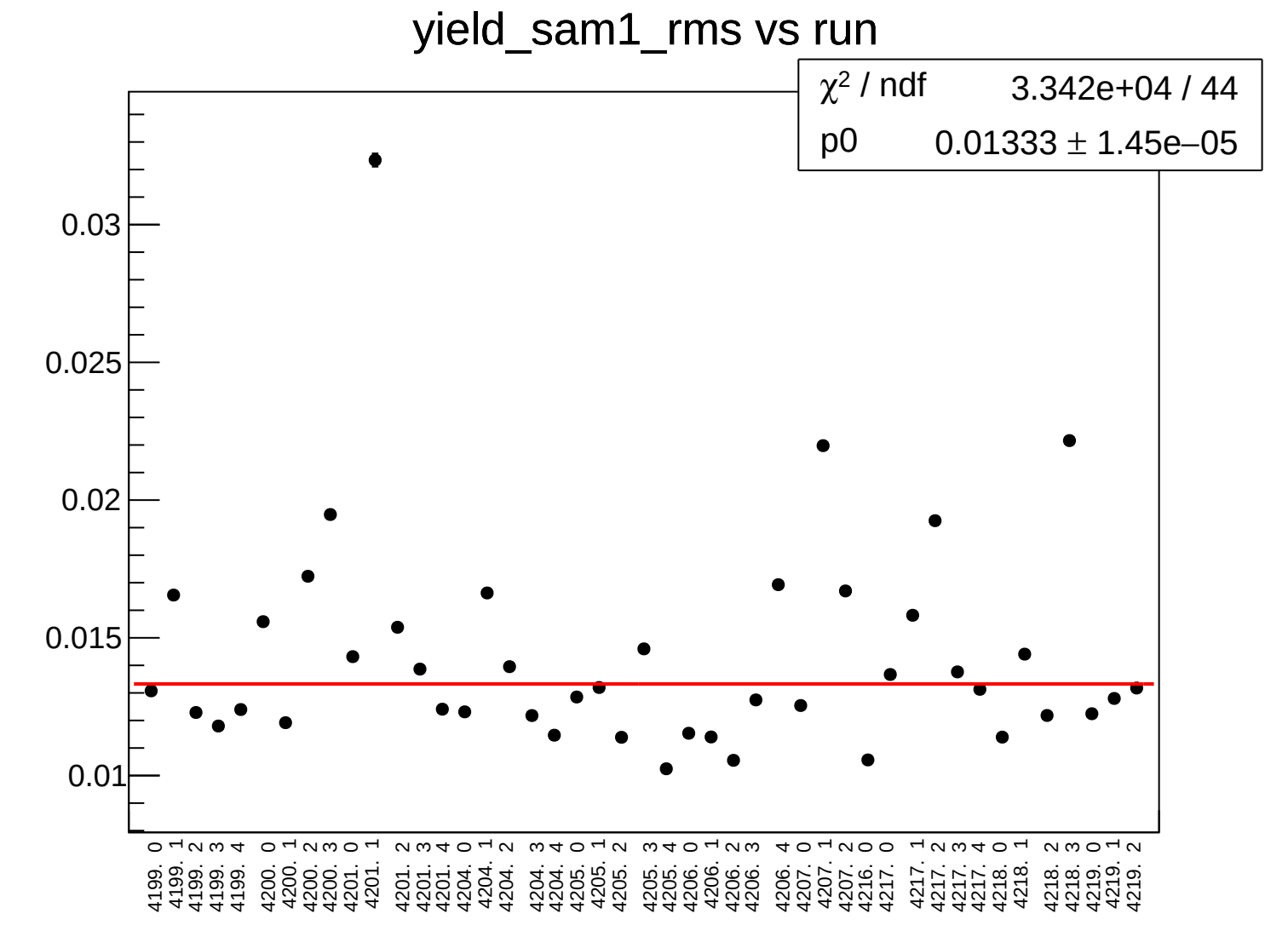

asym_sam8_mean vs run
χ² / ndf 52.16 / 44
p0 3901 ± 2666
80000
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −38.26
Std Dev 74.71
2
1
0
−1
−2

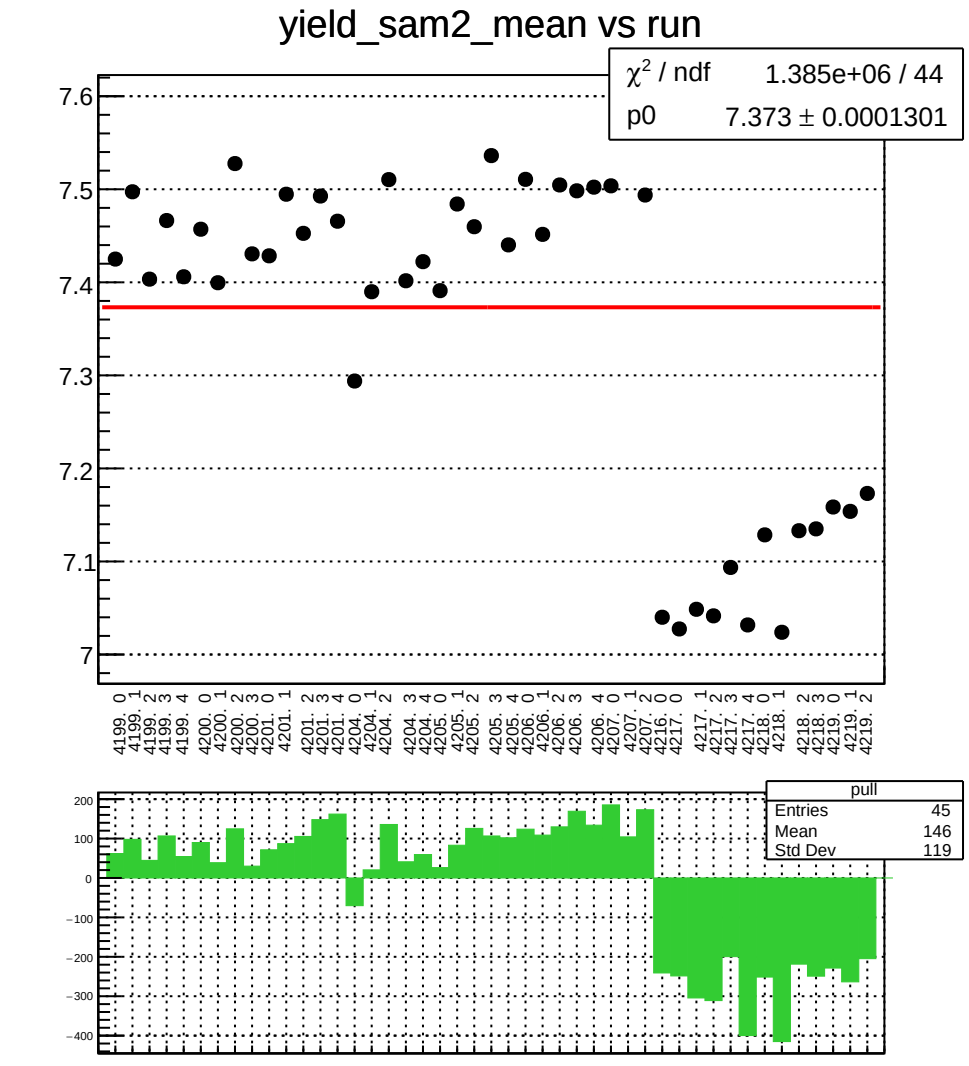

pull1D
Entries 45
Mean 0.02093
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

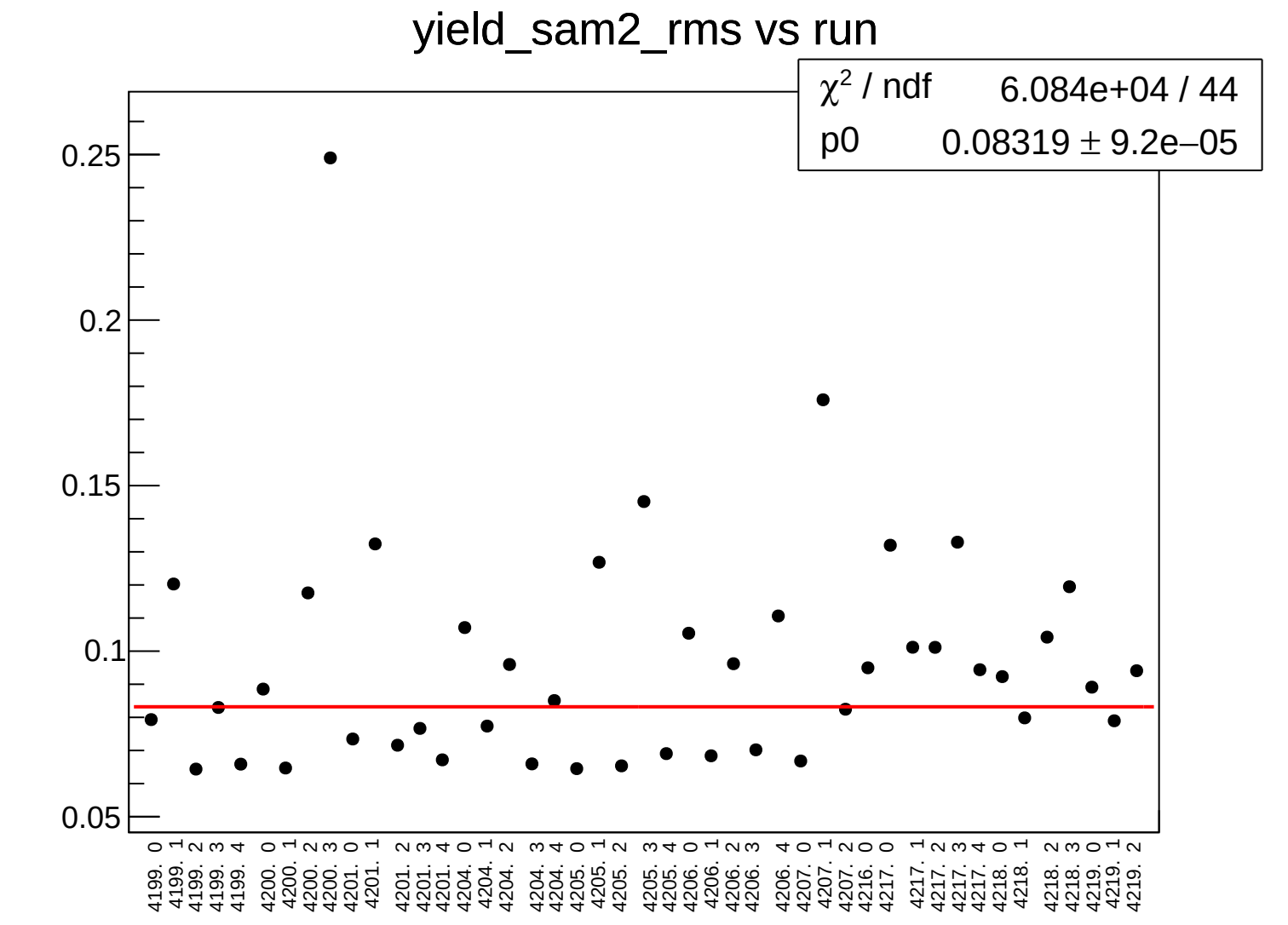

asym_sam8_rms vs run
χ² / ndf 964.6 / 44
p0 1766 ± 1.885
1900
1800
1700
1600
1500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

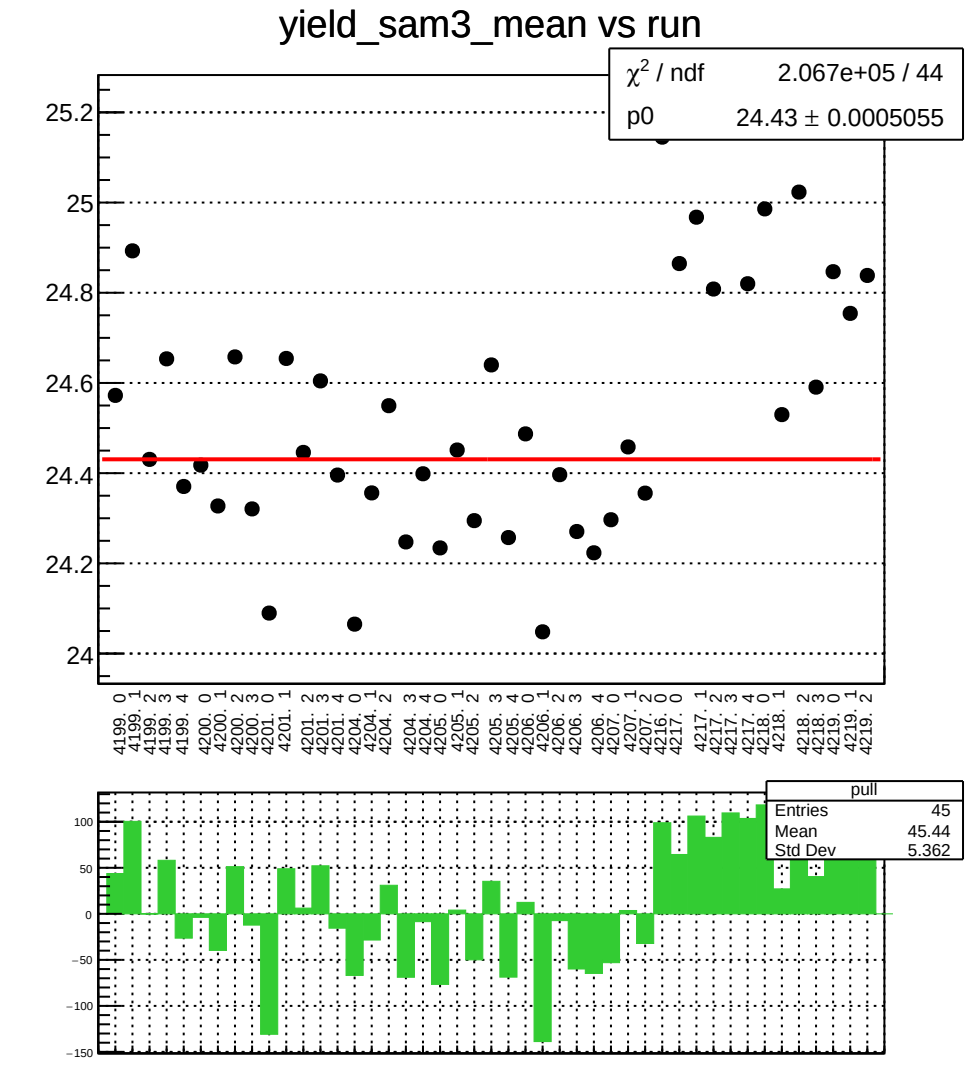

yield_sam1_mean vs run
χ² / ndf 8.417e+06 / 44
p0 3.69 ± 2.05e−05
3.75
3.7
3.65
3.6
3.55
pull
Entries 45
Mean 471.5
Std Dev 446.1
400
200
0
−200
−400
−600
−800
−1000

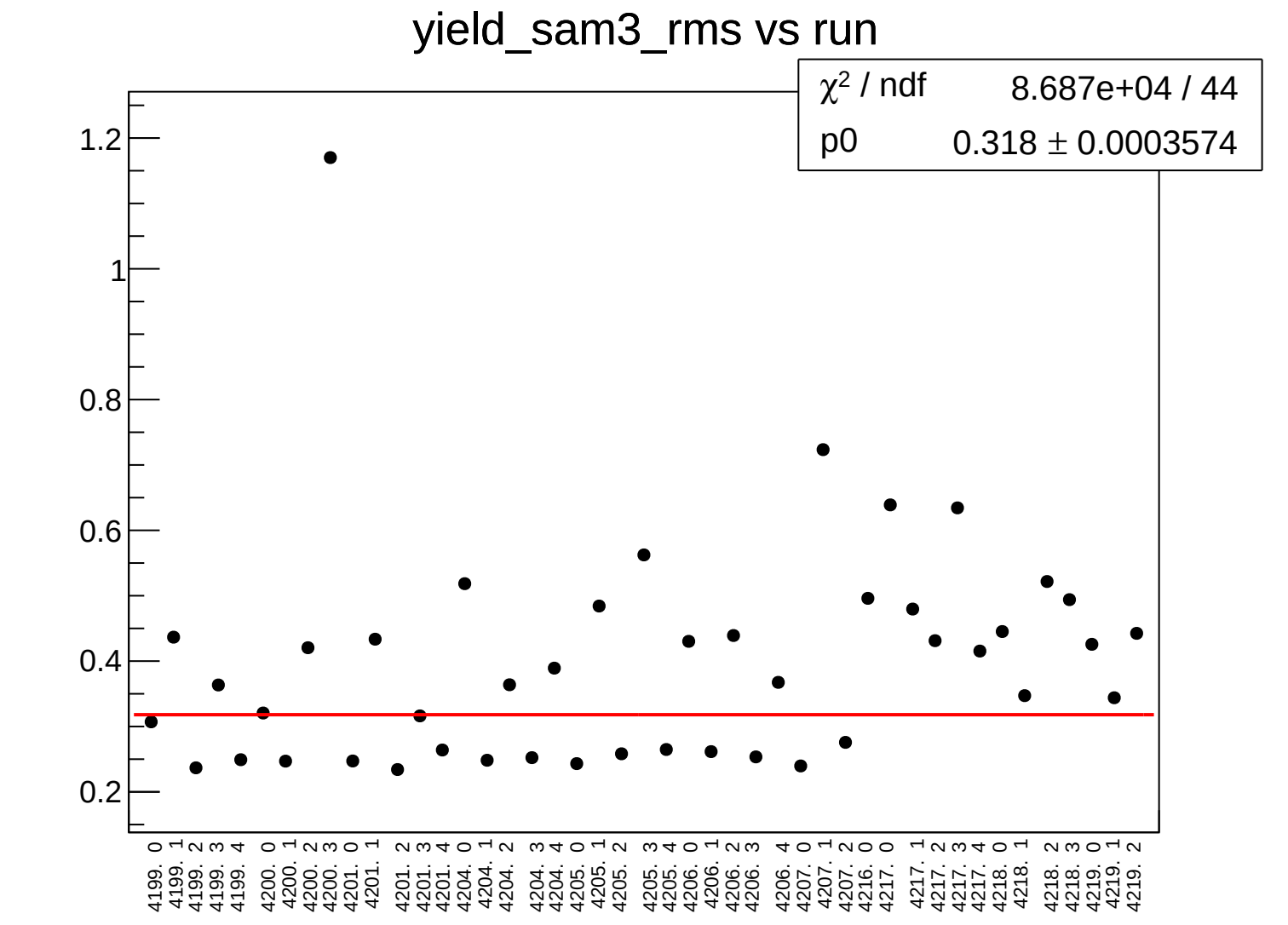

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

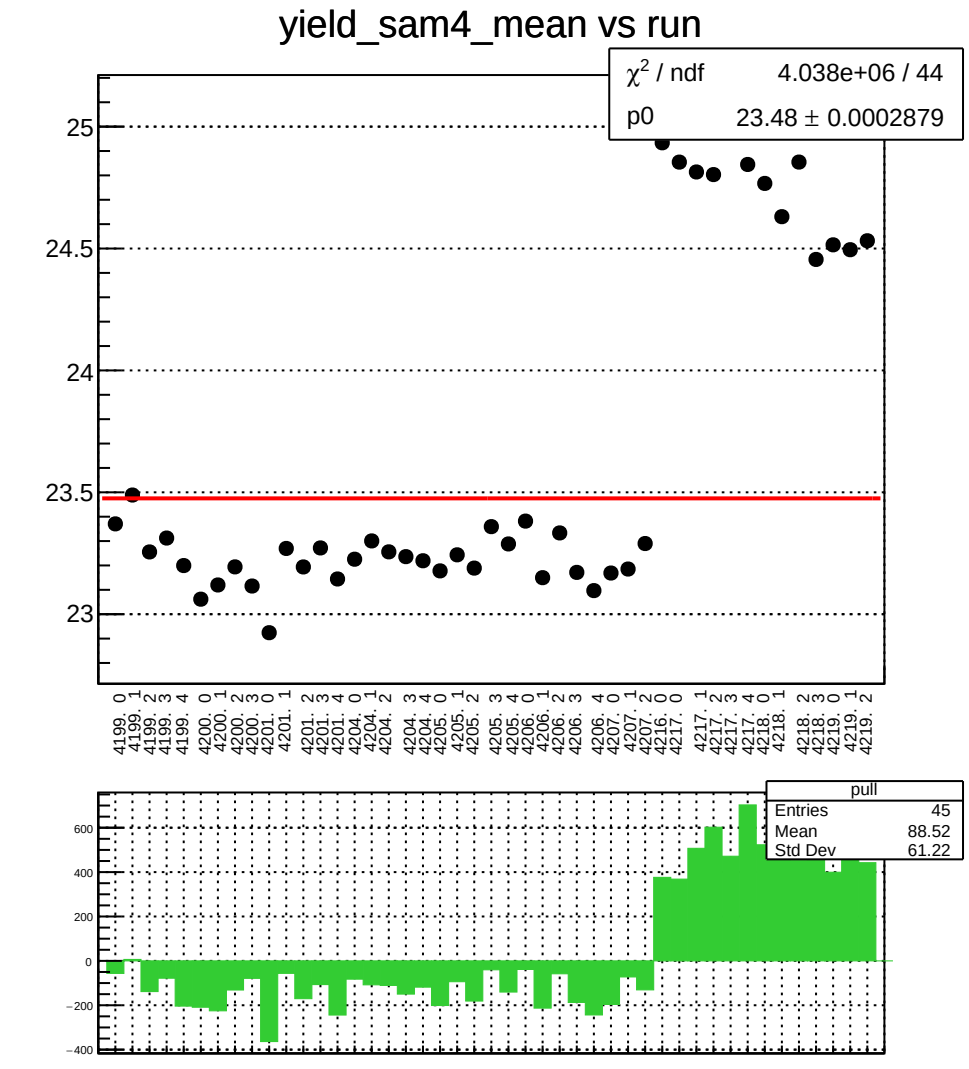

yield_sam1_rms vs run
χ² / ndf 3.342e+04 / 44
p0 0.01333 ± 1.45e−05
0.03
0.025
0.02
0.015
0.01
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

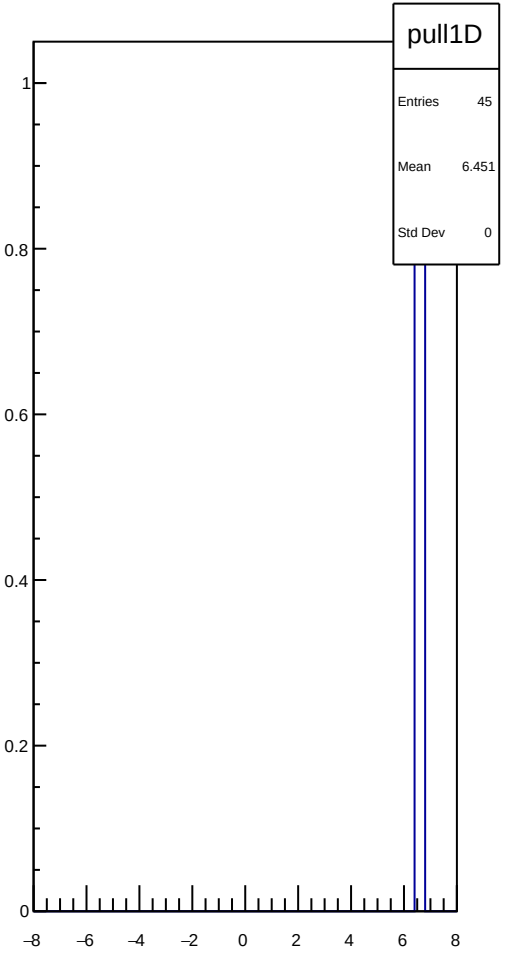

yield_sam2_mean vs run
χ² / ndf 1.385e+06 / 44
p0 7.373 ± 0.0001301
7.6
7.5
7.4
7.3
7.2
7.1
7
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 146
Std Dev 119
200
100
0
−100
−200
−300
−400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

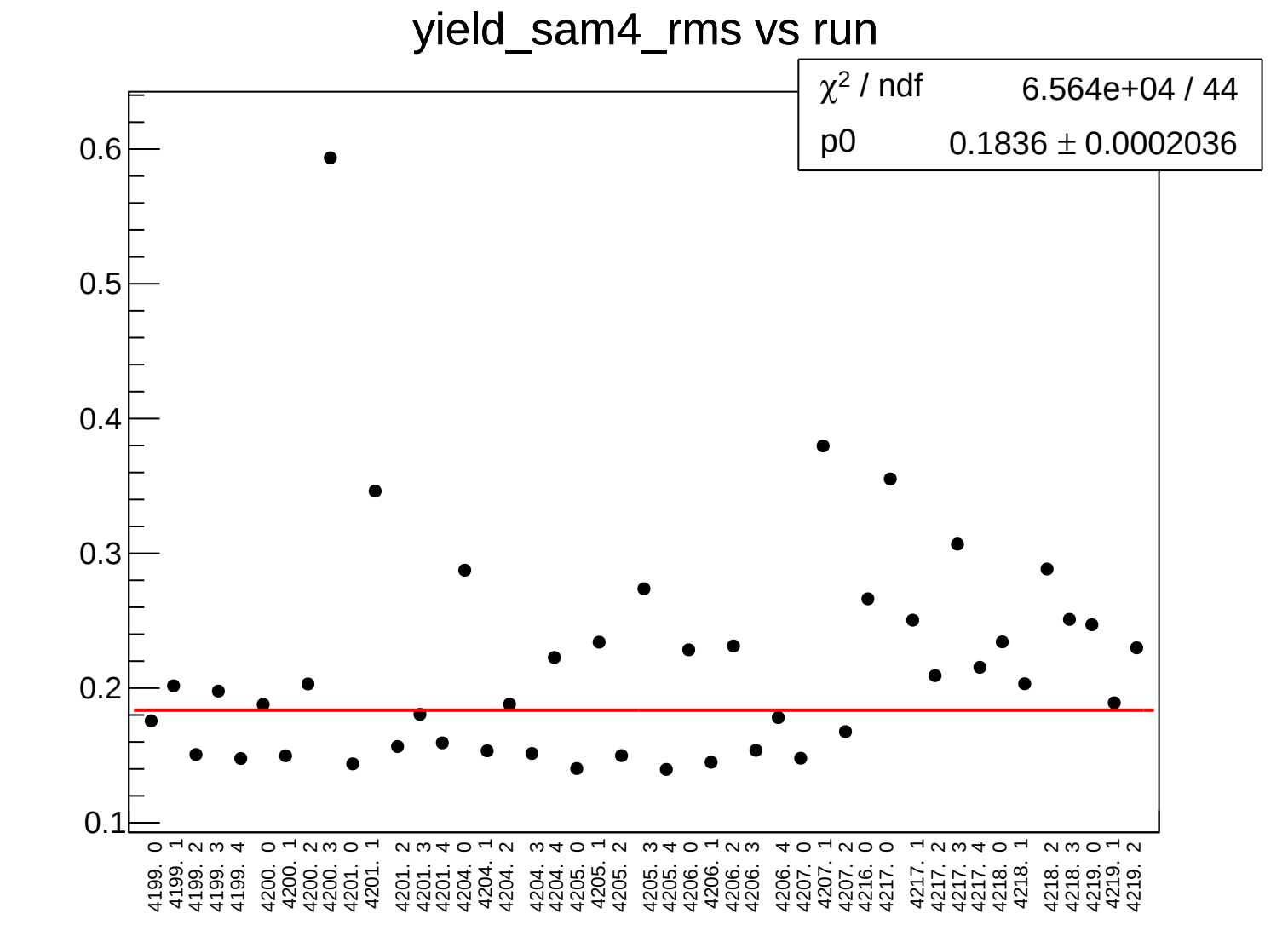

yield_sam2_rms vs run
χ^2 / ndf 6.084e+04 / 44
p0 0.08319 ± 9.2e−05
0.25
0.2
0.15
0.1
0.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

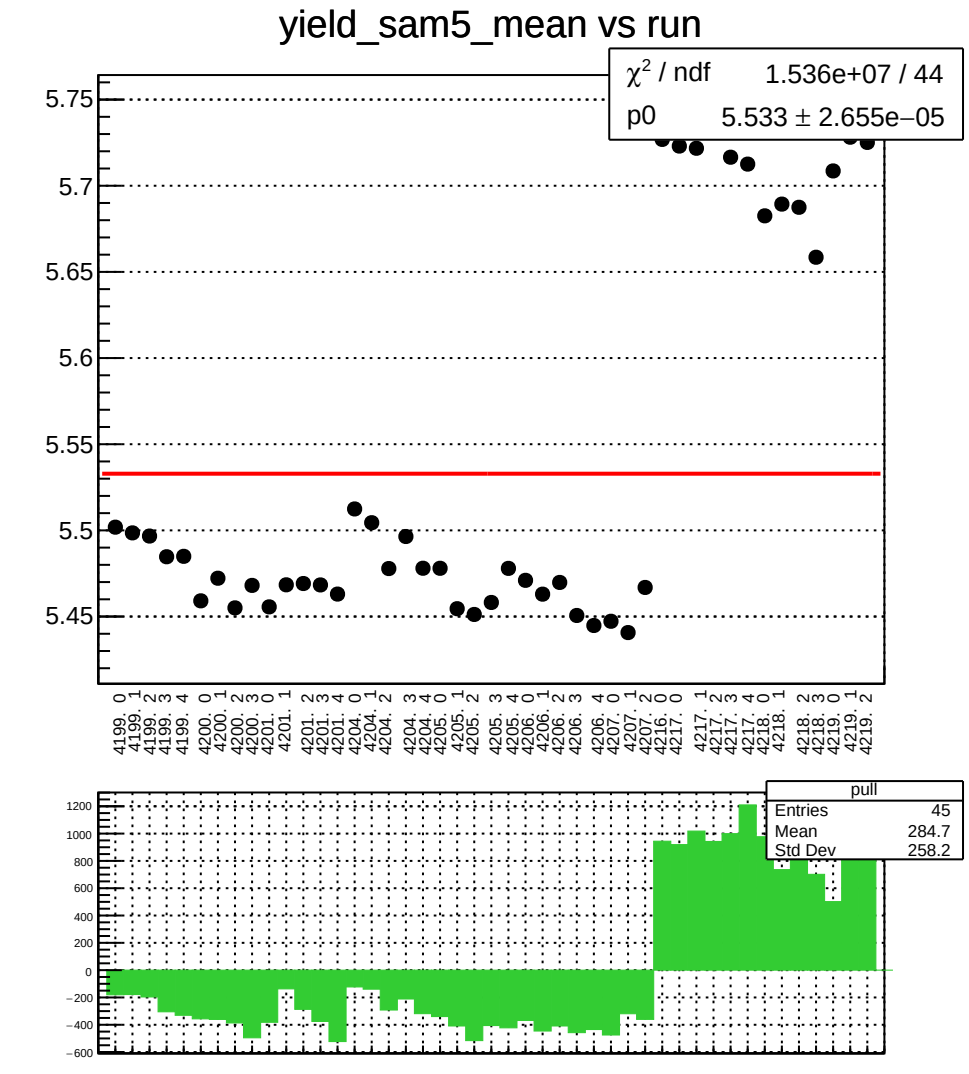

yield_sam3_mean vs run
χ² / ndf 2.067e+05 / 44
p0 24.43 ± 0.0005055
25.2
25
24.8
24.6
24.4
24.2
24
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 45.44
Std Dev 5.362
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 0.4347
Std Dev 4.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

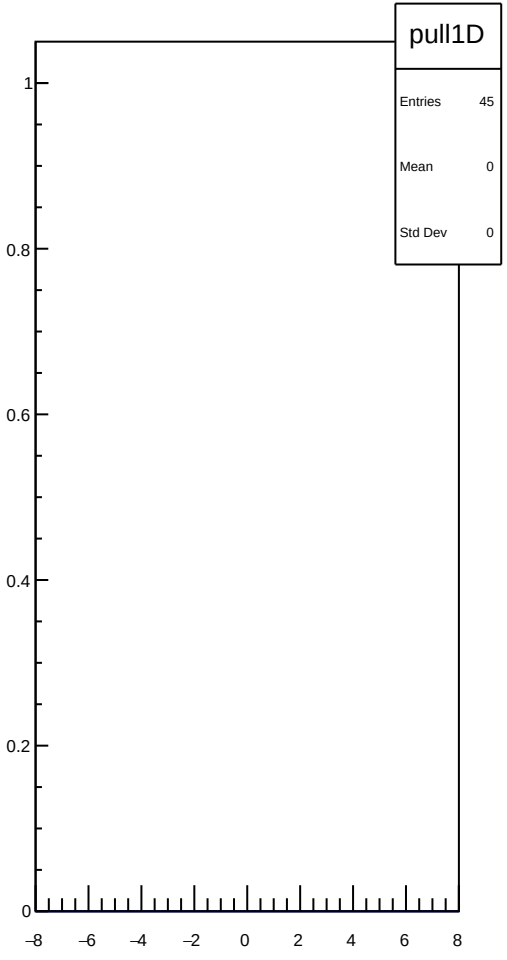

yield_sam3_rms vs run
χ² / ndf 8.687e+04 / 44
p0 0.318 ± 0.0003574
1.2
1
0.8
0.6
0.4
0.2
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

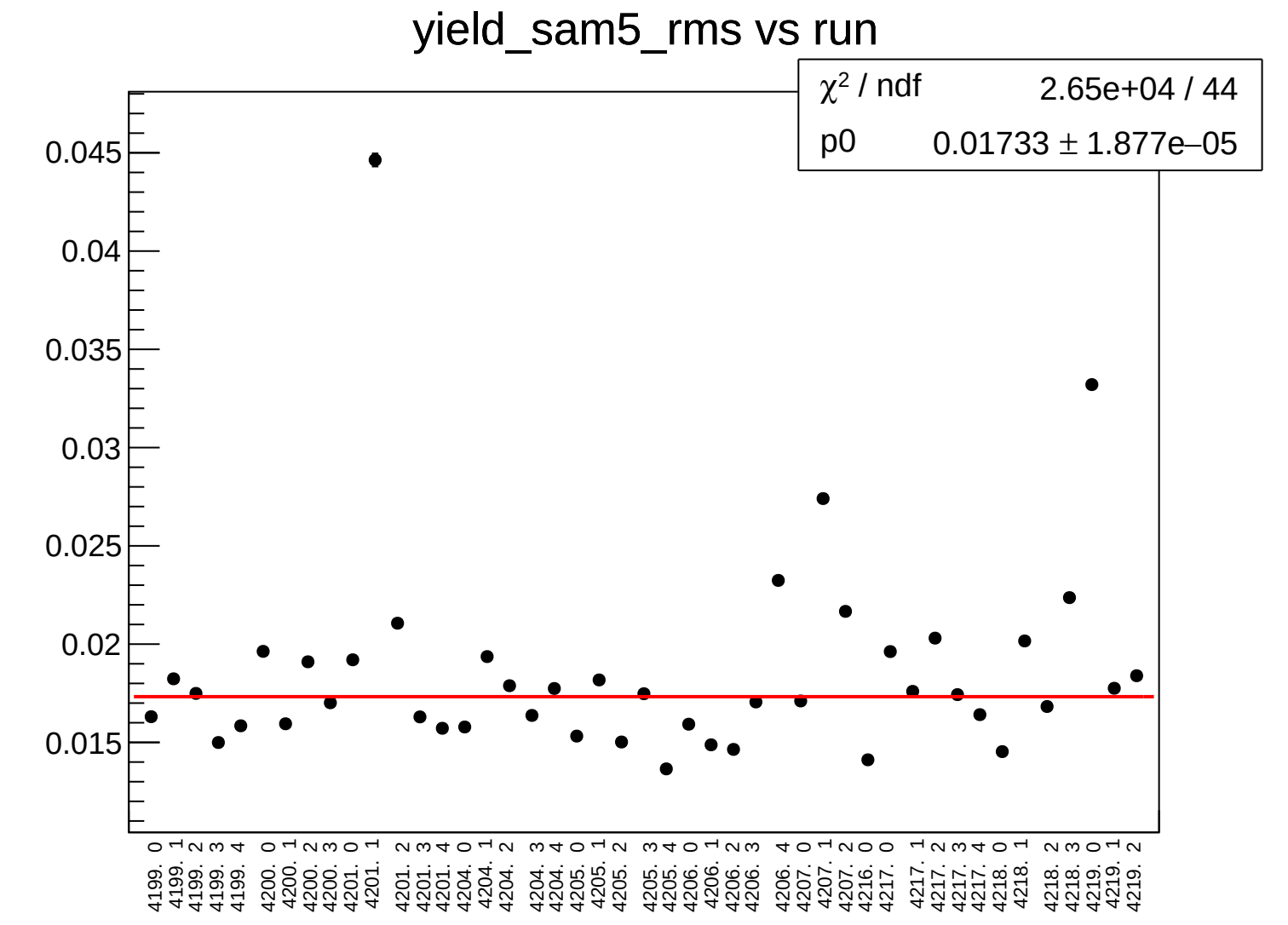

yield_sam4_mean vs run
χ² / ndf 4.038e+06 / 44
p0 23.48 ± 0.0002879
25
24.5
24
23.5
23
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 88.52
Std Dev 61.22
600
400
200
0
−200
−400

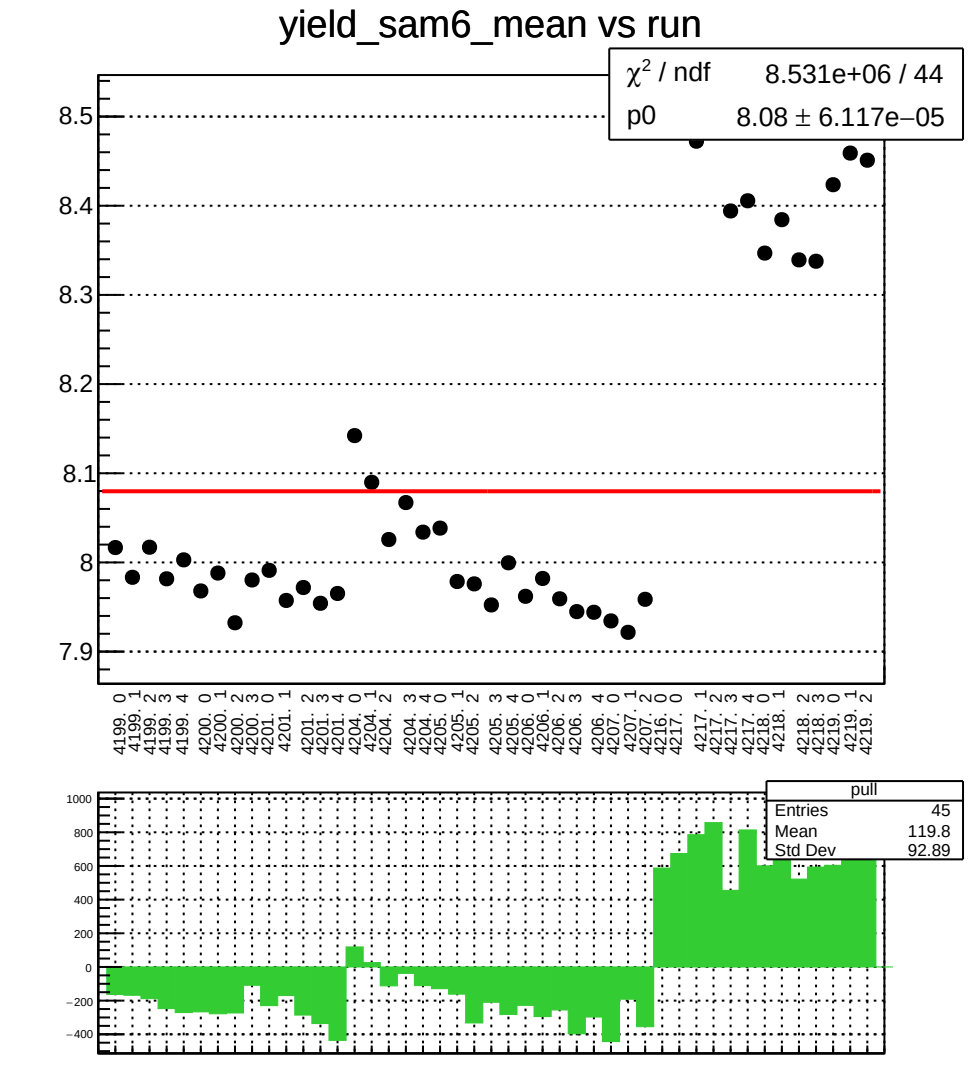

pull1D
Entries 45
Mean 6.451
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

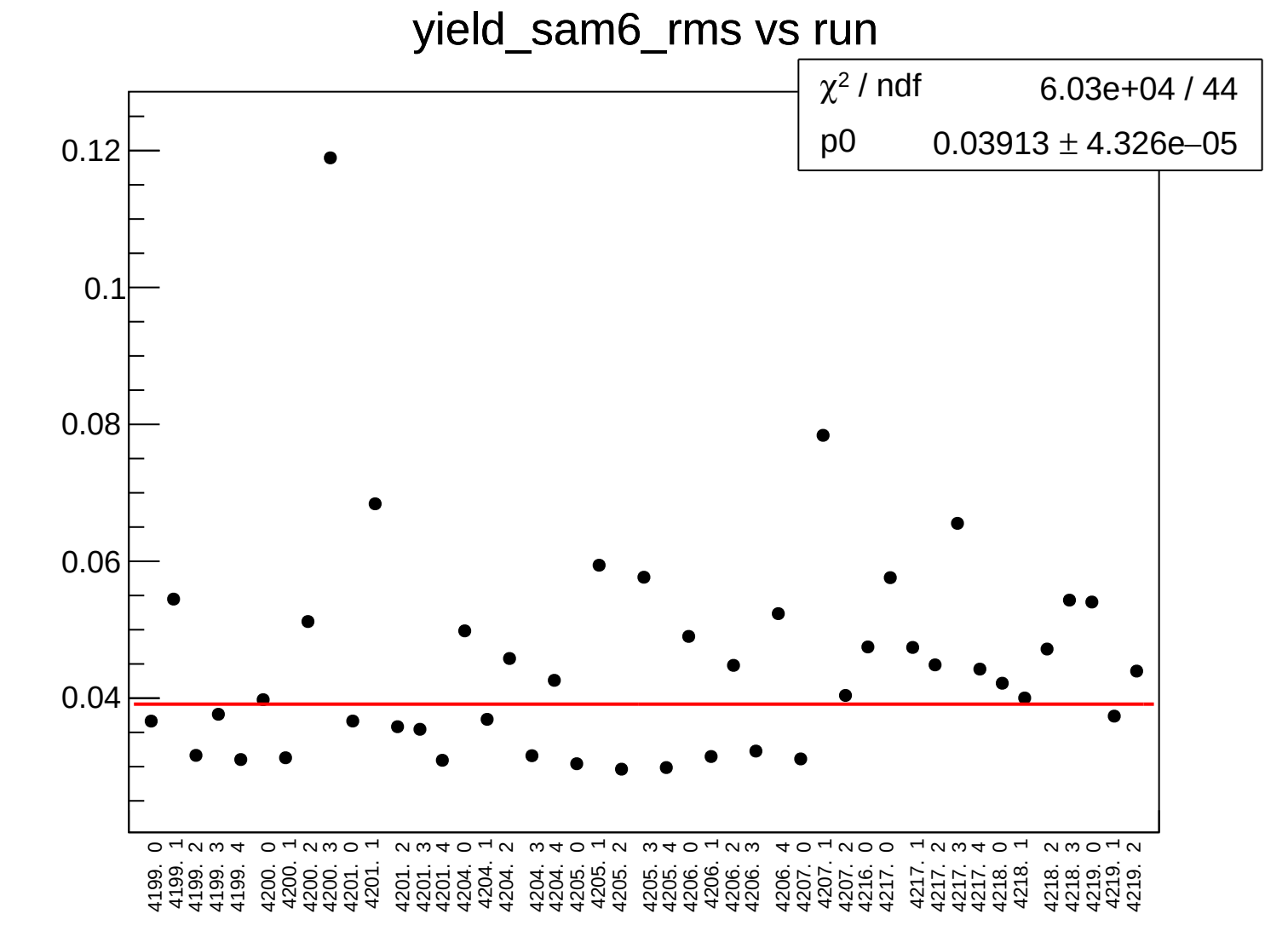

yield_sam4_rms vs run
χ² / ndf 6.564e+04 / 44
p0 0.1836 ± 0.0002036
0.6
0.5
0.4
0.3
0.2
0.1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

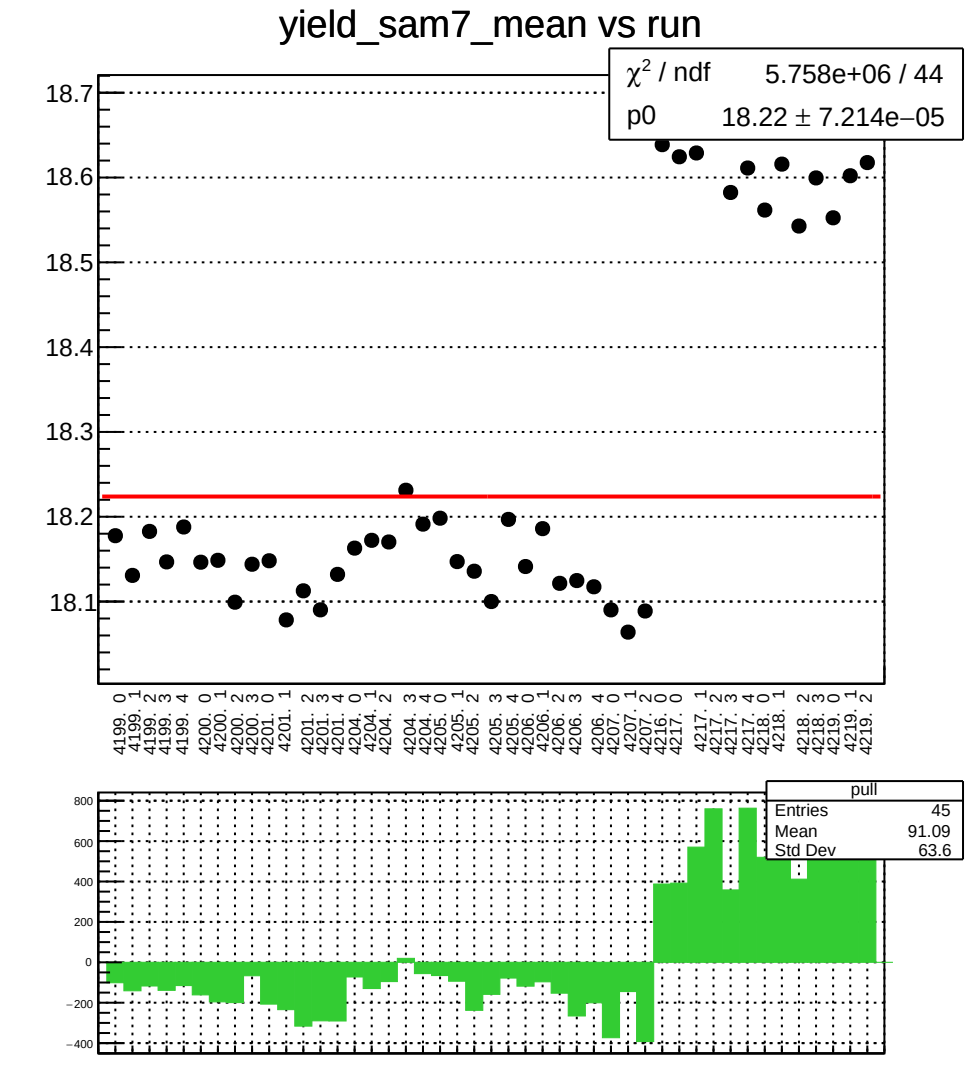

yield_sam5_mean vs run
χ² / ndf 1.536e+07 / 44
p0 5.533 ± 2.655e−05
5.75
5.7
5.65
5.6
5.55
5.5
5.45
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 284.7
Std Dev 258.2
1200
1000
800
600
400
200
0
−200
−400
−600

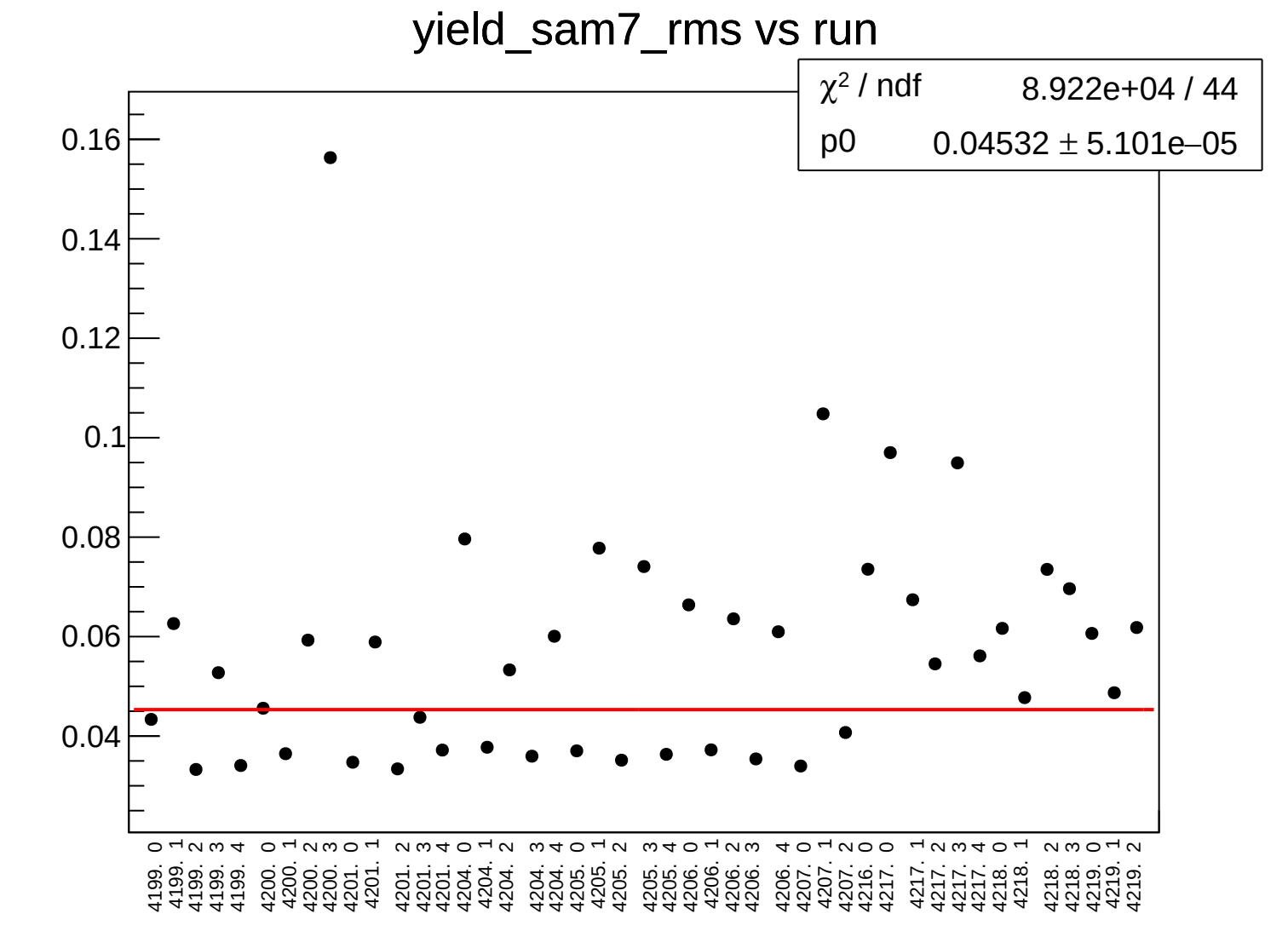

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

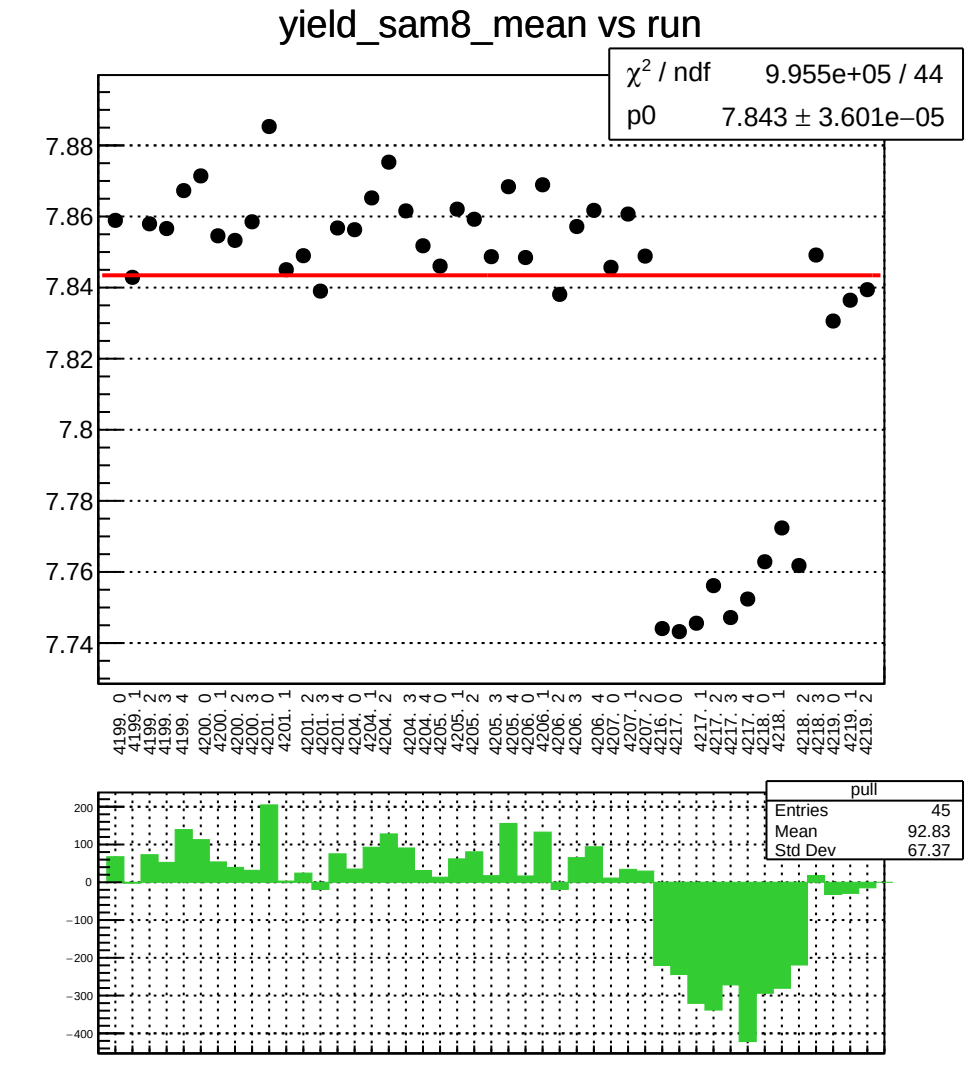

yield_sam5_rms vs run
χ² / ndf 2.65e+04 / 44
p0 0.01733 ± 1.877e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

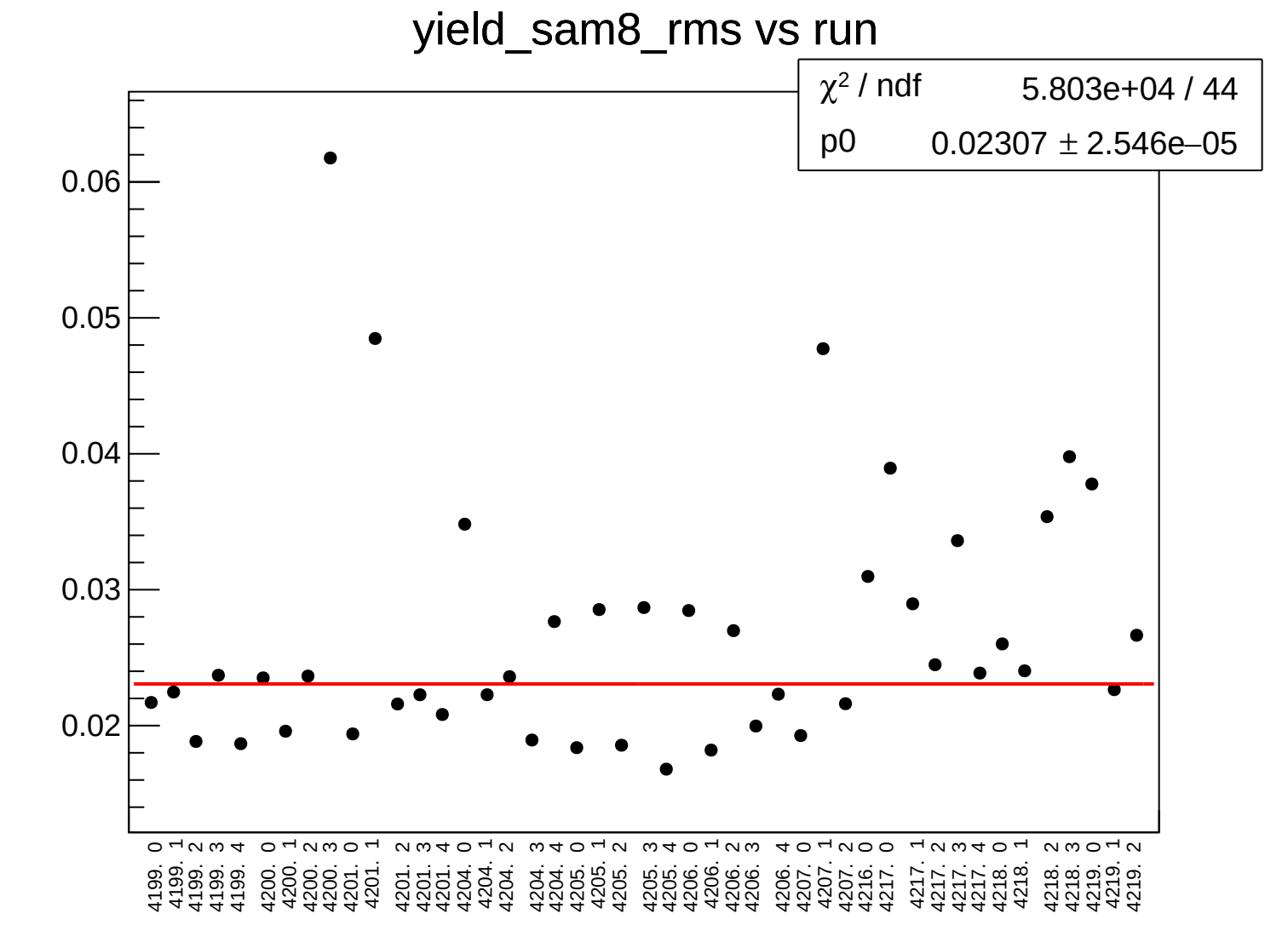

yield_sam6_mean vs run
χ² / ndf 8.531e+06 / 44
p0 8.08 ± 6.117e−05
8.5
8.4
8.3
8.2
8.1
8
7.9
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 119.8
Std Dev 92.89
1000
800
600
400
200
0
−200
−400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

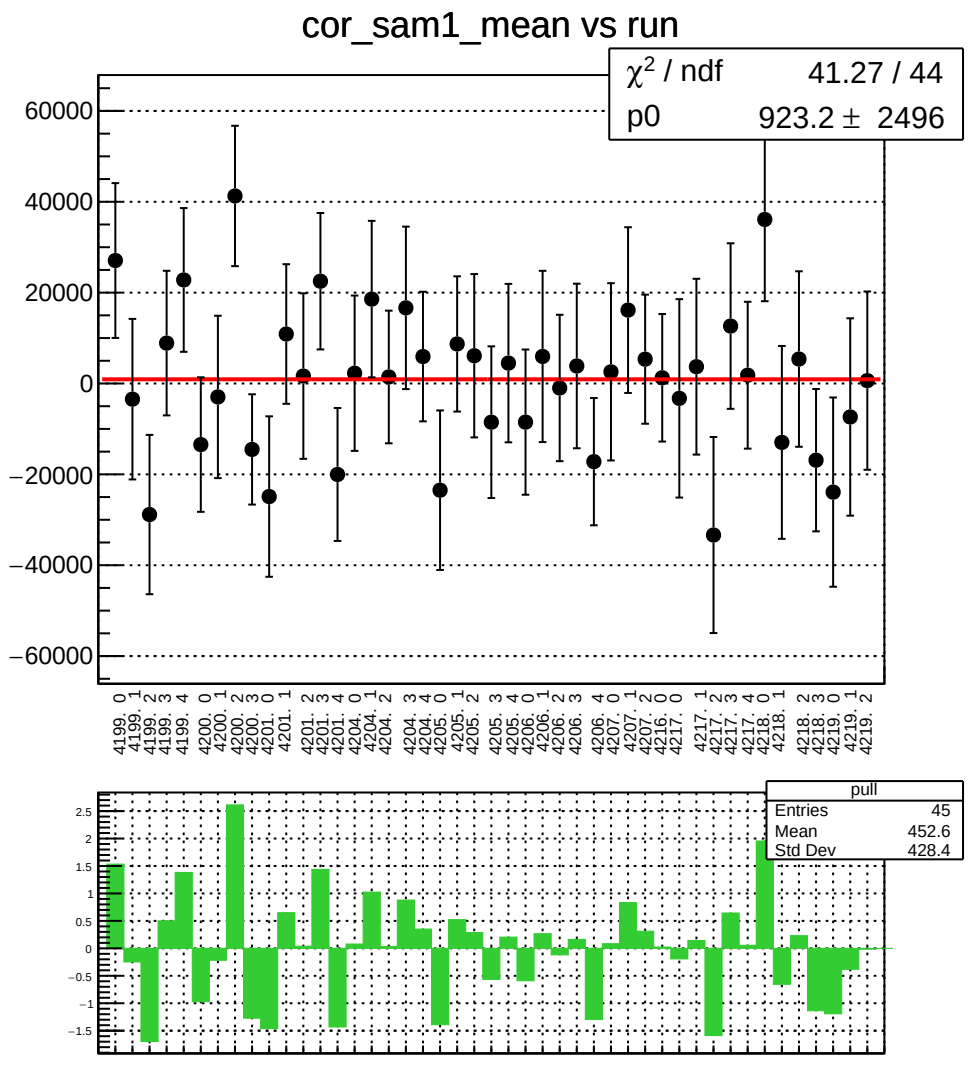

yield_sam6_rms vs run
χ² / ndf 6.03e+04 / 44
p0 0.03913 ± 4.326e–05
0.12
0.1
0.08
0.06
0.04
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

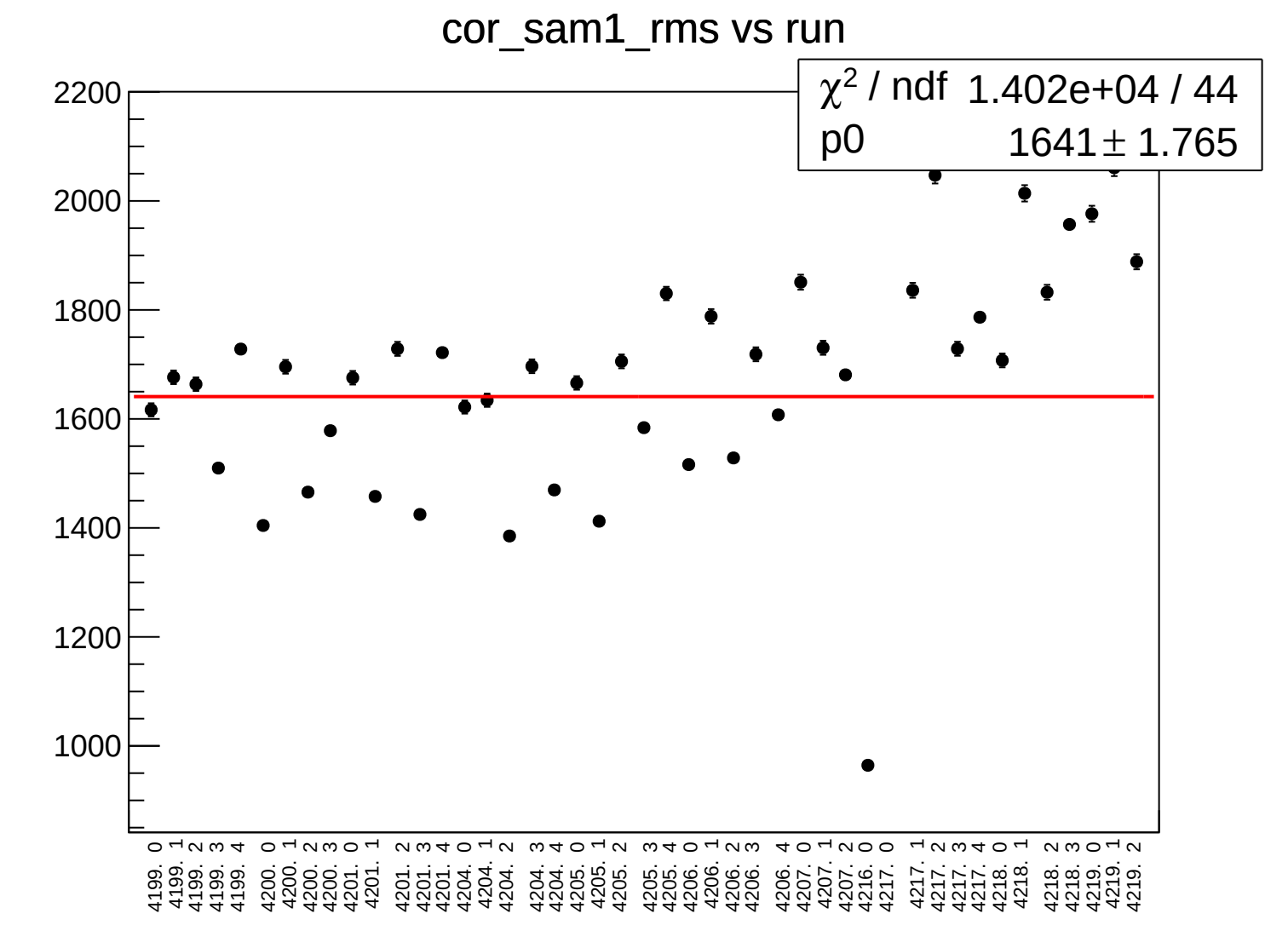

yield_sam7_mean vs run
χ² / ndf 5.758e+06 / 44
p0 18.22 ± 7.214e−05
18.7
18.6
18.5
18.4
18.3
18.2
18.1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 91.09
Std Dev 63.6
800
600
400
200
0
−200
−400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

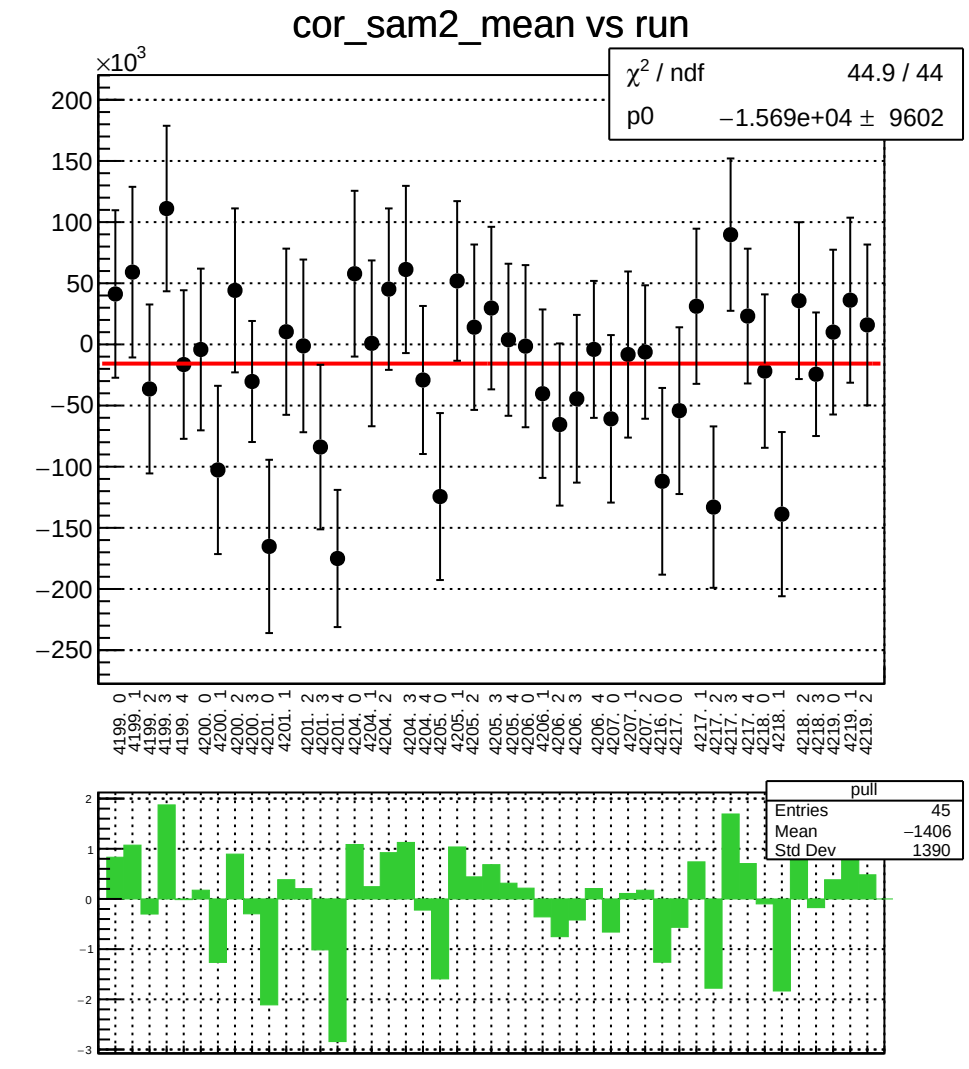

yield_sam7_rms vs run
χ² / ndf 8.922e+04 / 44
p0 0.04532 ± 5.101e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

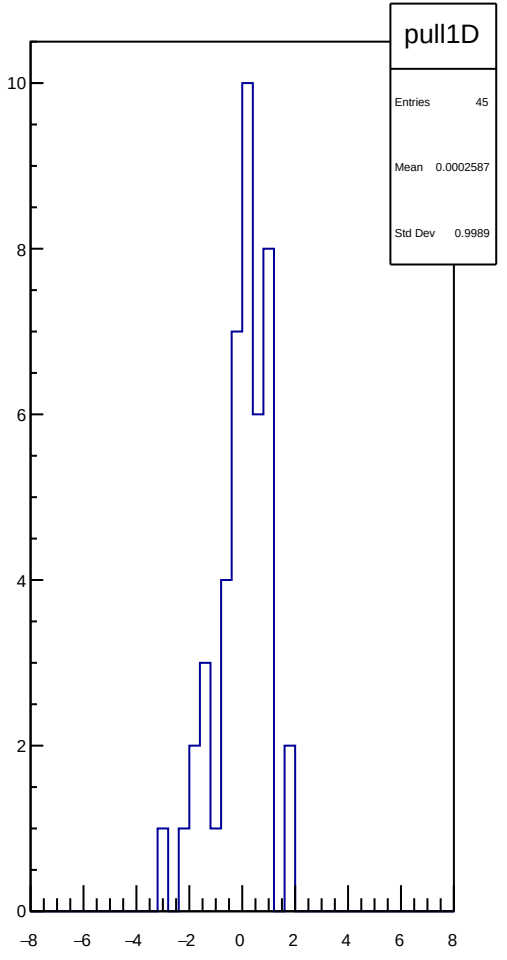

yield_sam8_mean vs run
χ² / ndf 9.955e+05 / 44
p0 7.843 ± 3.601e−05
7.88
7.86
7.84
7.82
7.8
7.78
7.76
7.74
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 92.83
Std Dev 67.37
200
100
0
−100
−200
−300
−400
pull1D
Entries 45
Mean 0.3454
Std Dev 2.749
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

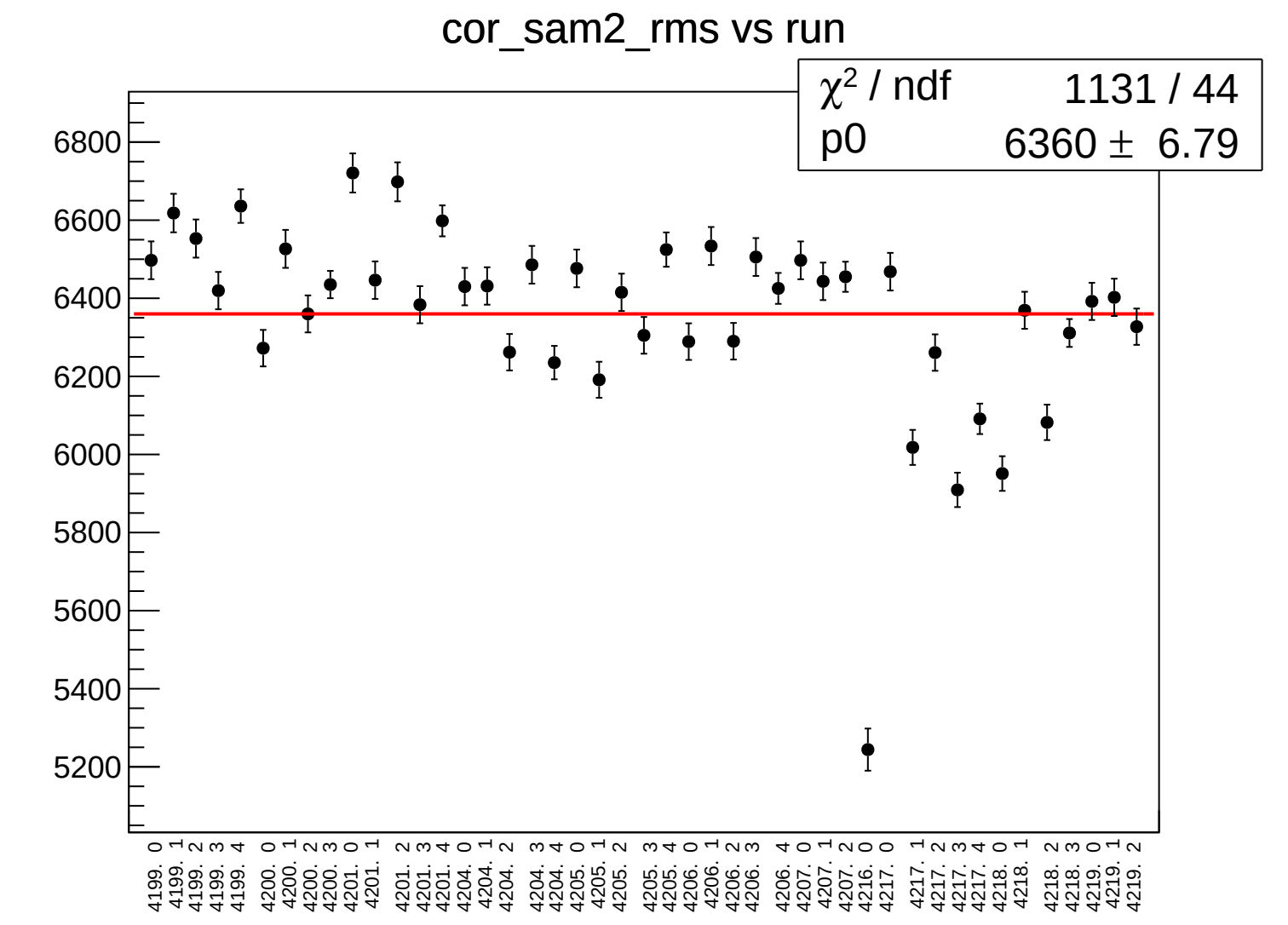

yield_sam8_rms vs run
χ² / ndf 5.803e+04 / 44
p0 0.02307 ± 2.546e–05
0.06
0.05
0.04
0.03
0.02
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

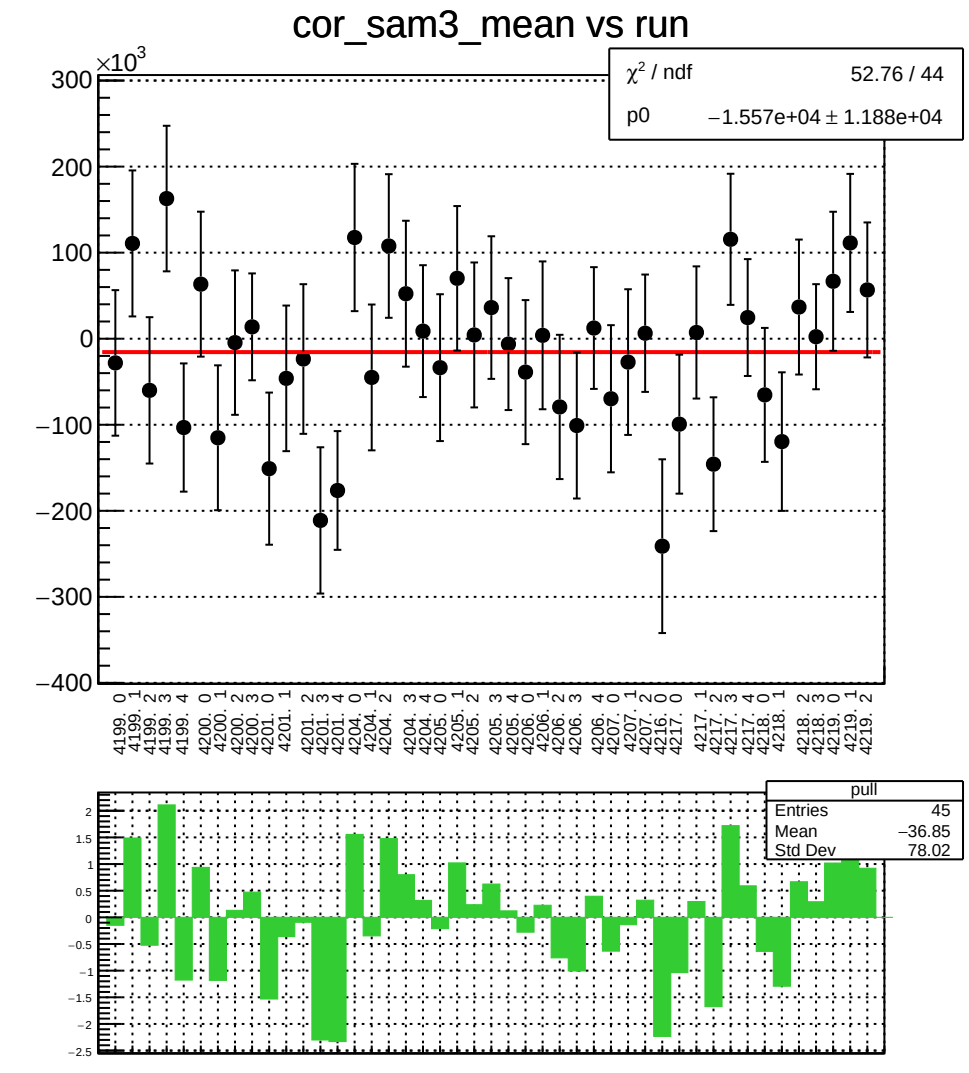

cor_sam1_mean vs run
χ^2 / ndf 41.27 / 44
p0 923.2 ± 2496
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 452.6
Std Dev 428.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.00362
Std Dev 0.9576
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

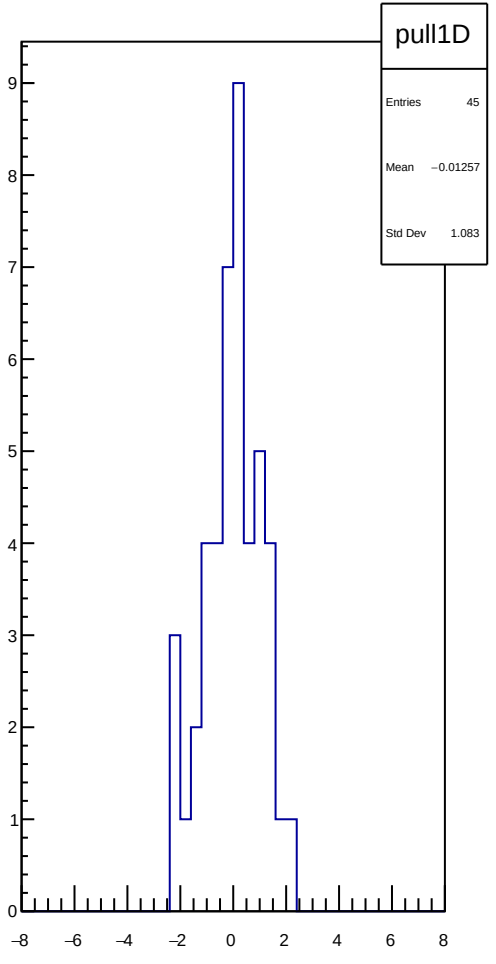

cor_sam1_rms vs run
χ² / ndf 1.402e+04 / 44
p0 1641 ± 1.765
2200
2000
1800
1600
1400
1200
1000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

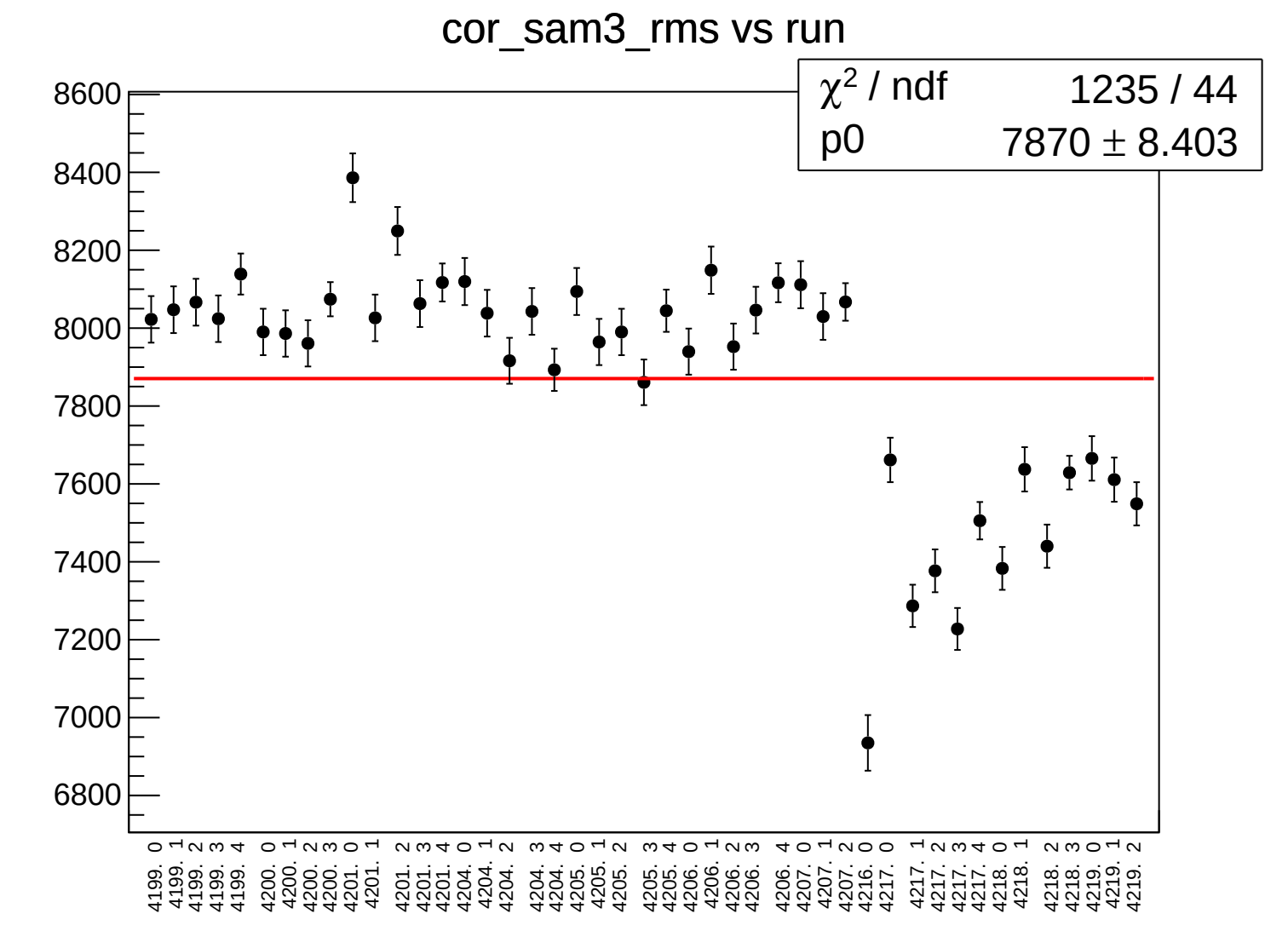

cor_sam2_mean vs run
×10^3
χ² / ndf 44.9 / 44
p0 −1.569e+04 ± 9602
200
150
100
50
0
−50
−100
−150
−200
−250
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1406
Std Dev 1390
2
1
0
−1
−2
−3

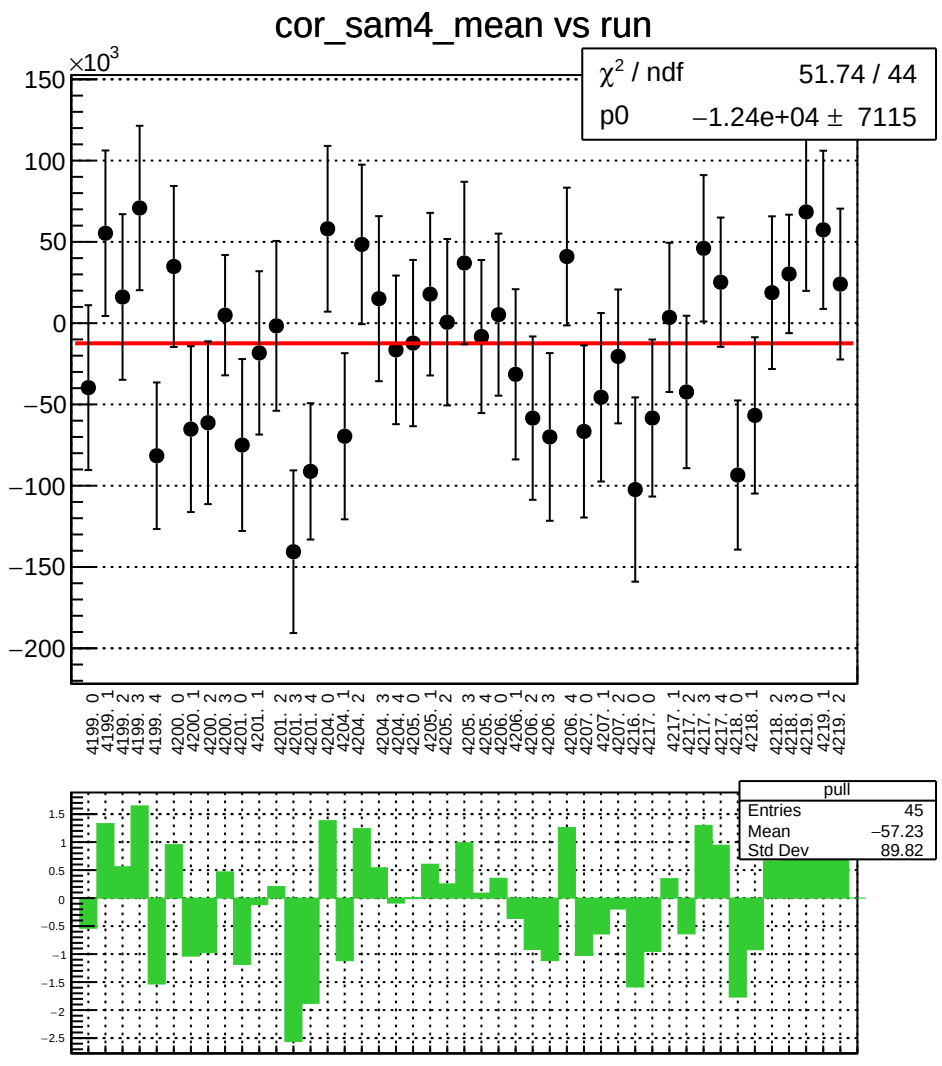

pull1D
Entries 45
Mean 0.0002587
Std Dev 0.9989
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

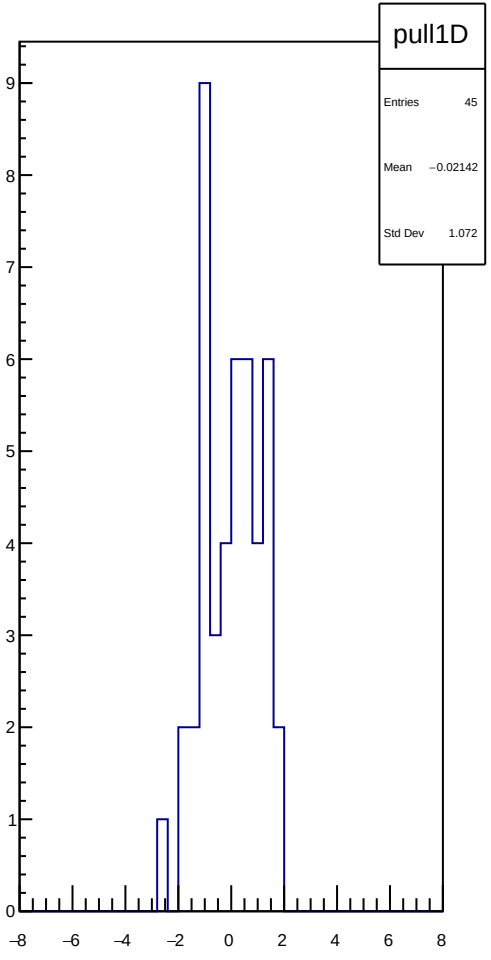

cor_sam2_rms vs run
χ² / ndf 1131 / 44
p0 6360 ± 6.79
6800
6600
6400
6200
6000
5800
5600
5400
5200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

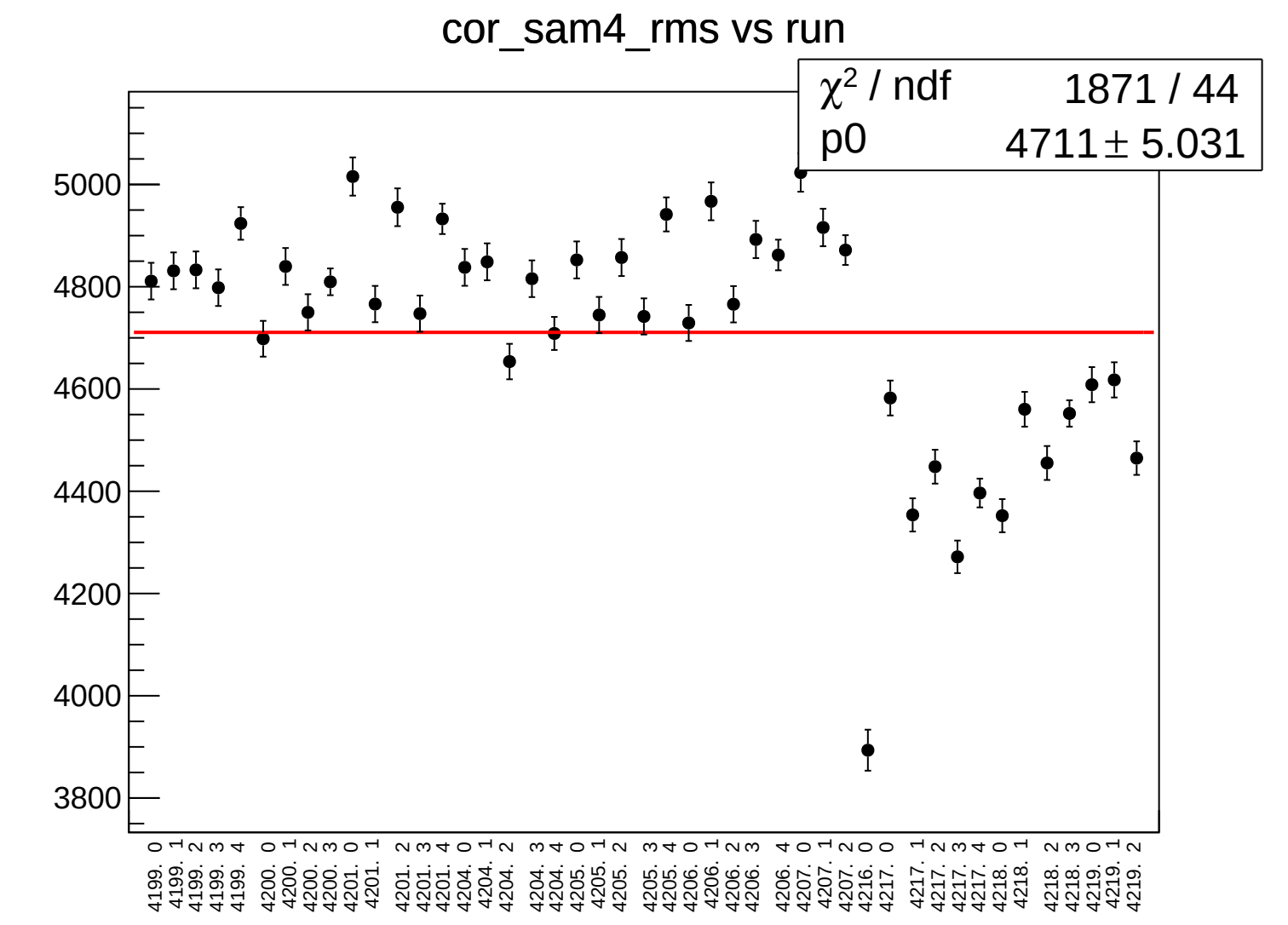

cor_sam3_mean vs run
×10^3
χ² / ndf 52.76 / 44
p0 −1.557e+04 ± 1.188e+04
pull
Entries 45
Mean −36.85
Std Dev 78.02

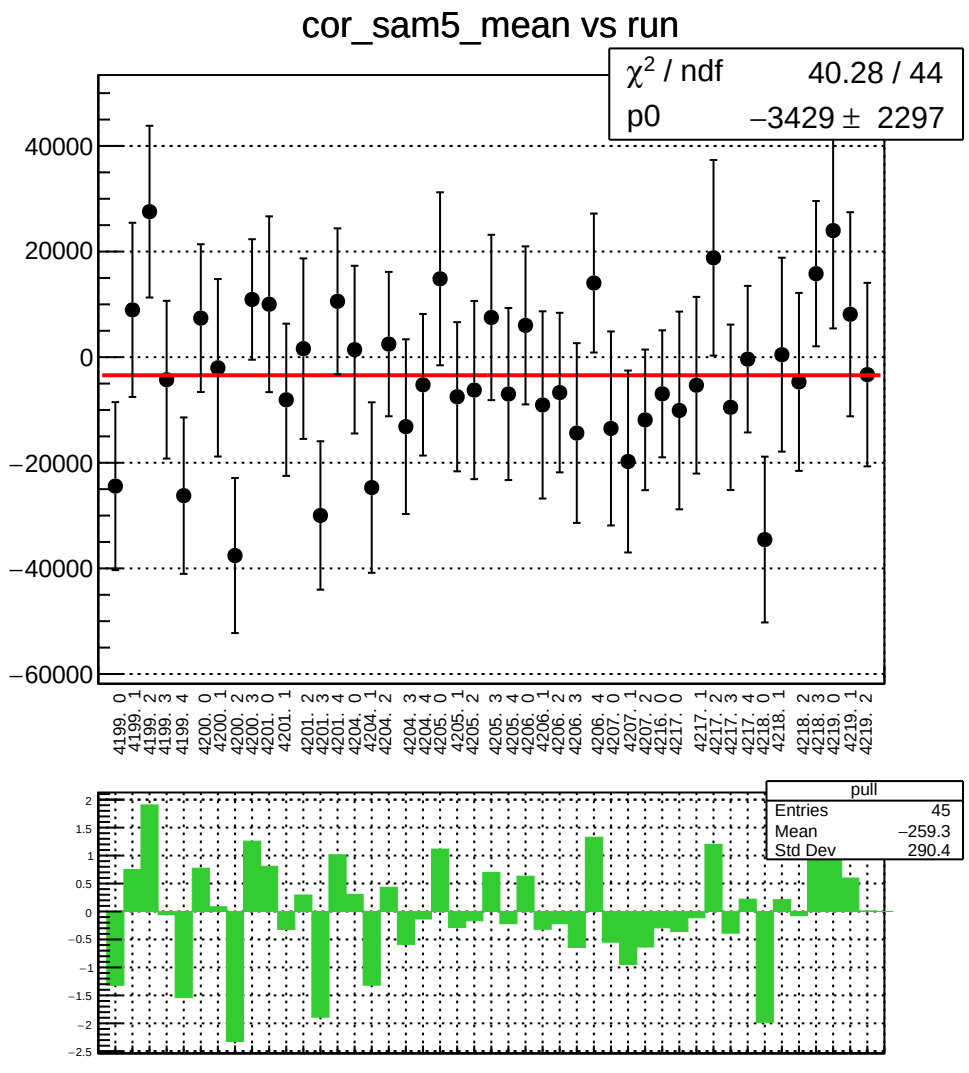

pull1D
Entries 45
Mean −0.01257
Std Dev 1.083

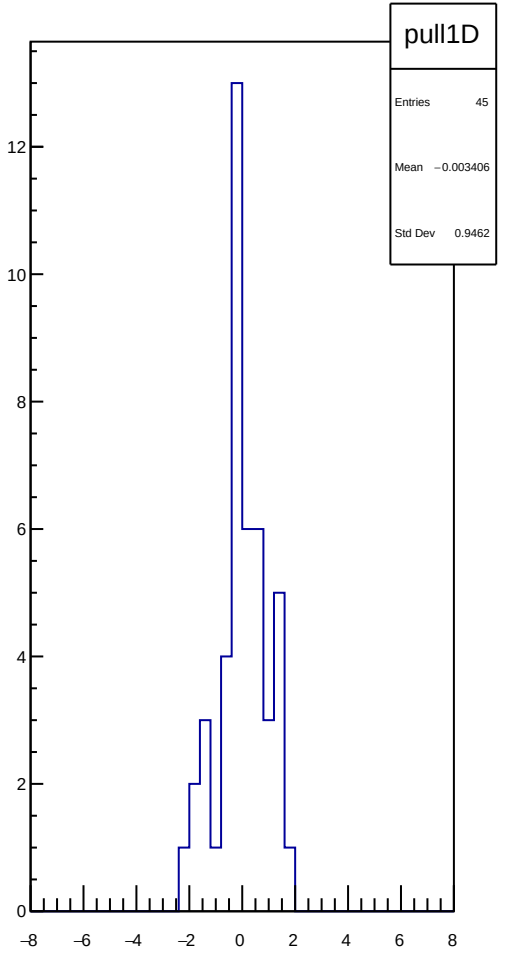

cor_sam3_rms vs run
χ² / ndf 1235 / 44
p0 7870 ± 8.403
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

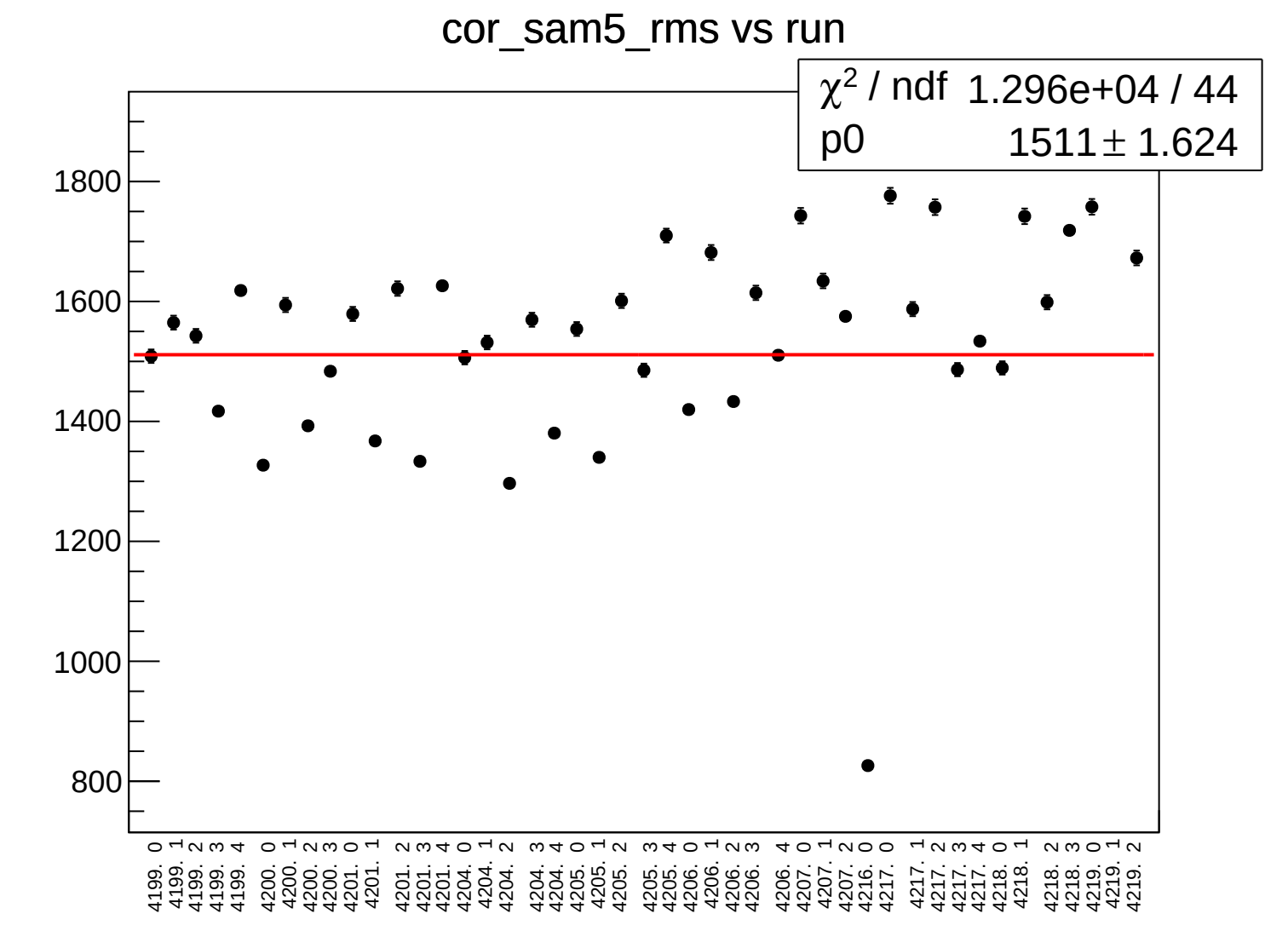

cor_sam4_mean vs run
×10^3
χ² / ndf 51.74 / 44
p0 −1.24e+04 ± 7115
150
100
50
0
−50
−100
−150
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −57.23
Std Dev 89.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

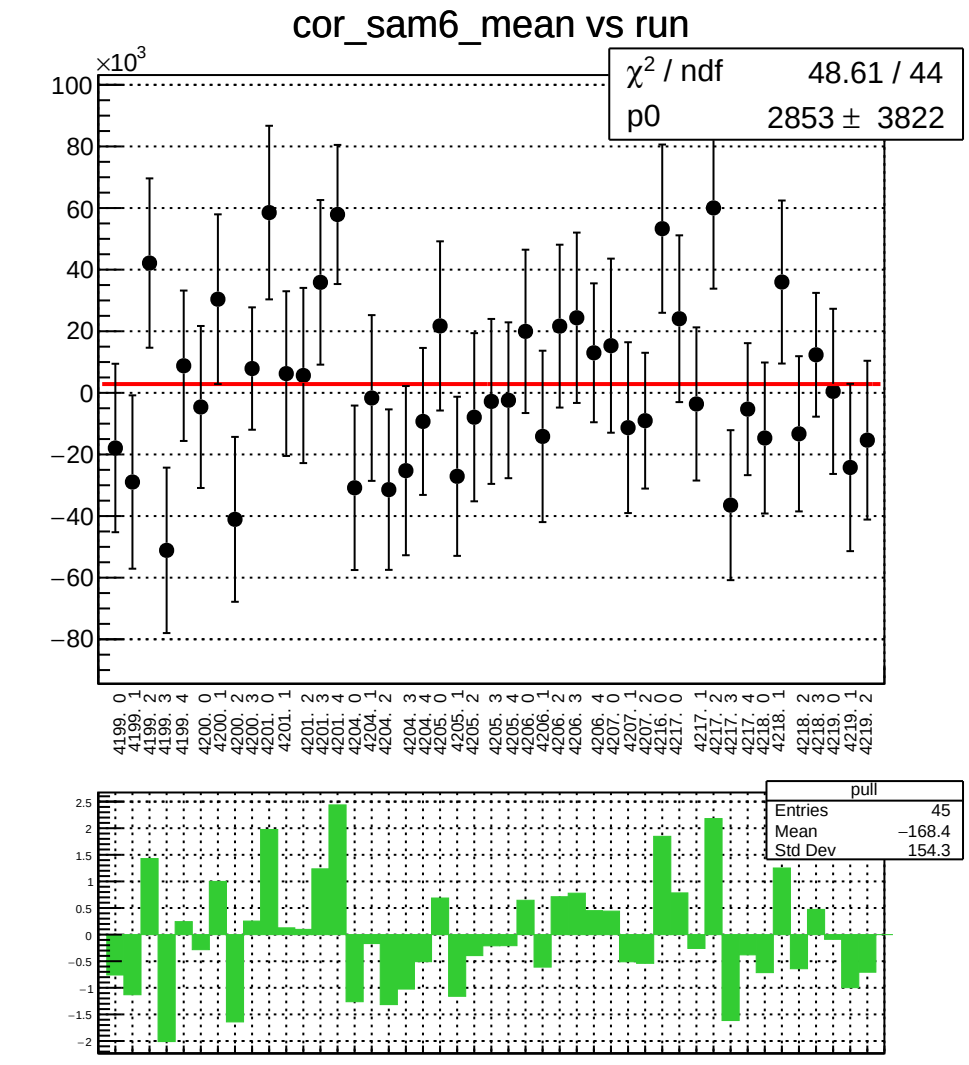

pull1D
Entries 45
Mean −0.02142
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

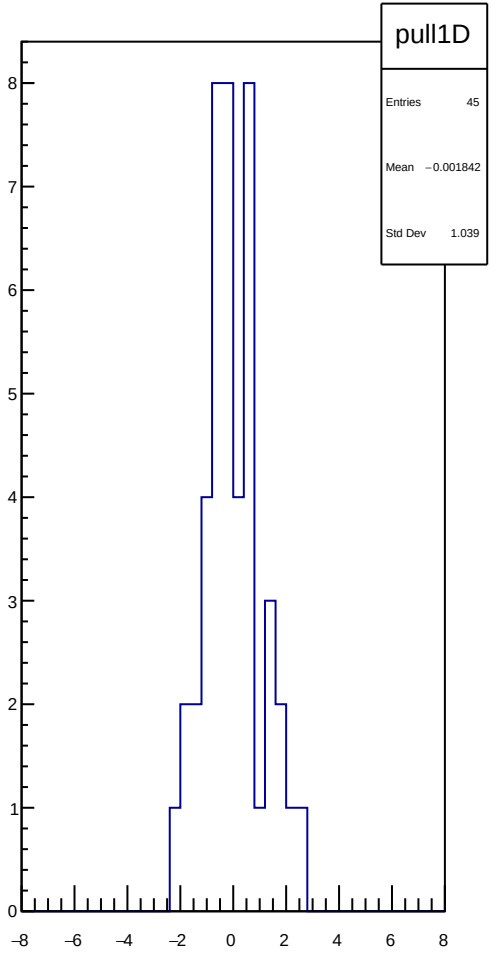

cor_sam4_rms vs run
χ² / ndf 1871 / 44
p0 4711 ± 5.031
5000
4800
4600
4400
4200
4000
3800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

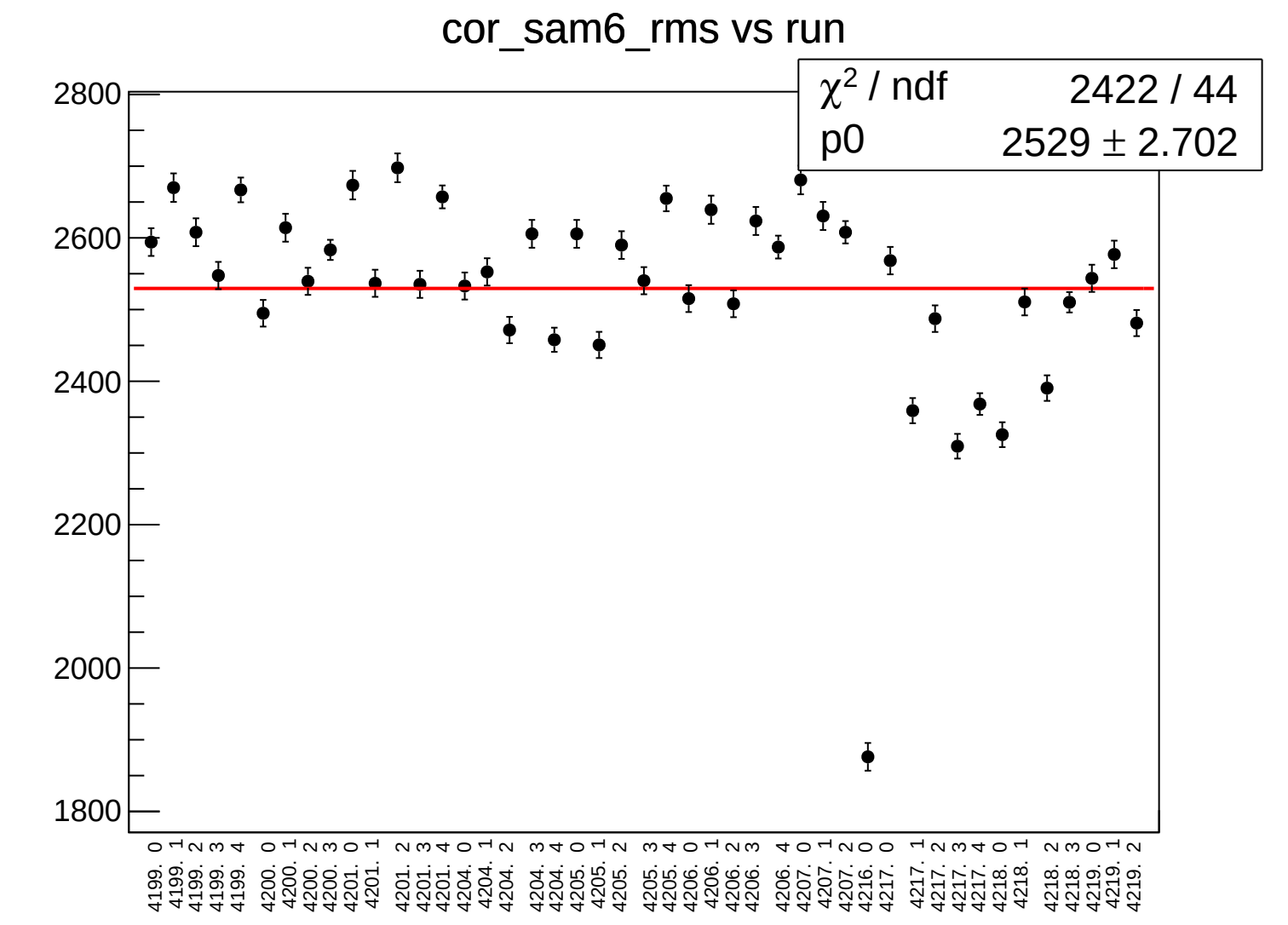

cor_sam5_mean vs run
χ² / ndf 40.28 / 44
p0 −3429 ± 2297
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −259.3
Std Dev 290.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

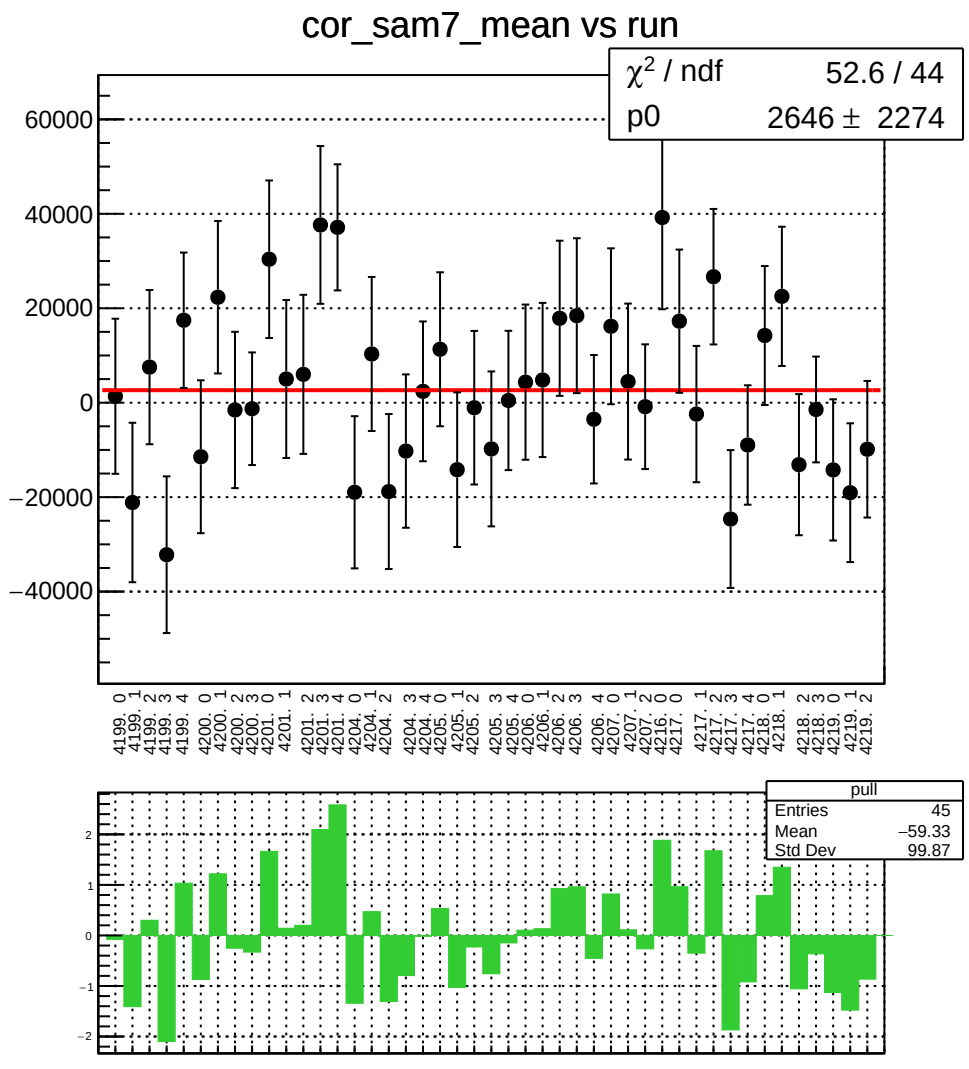

pull1D
Entries 45
Mean −0.003406
Std Dev 0.9462
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

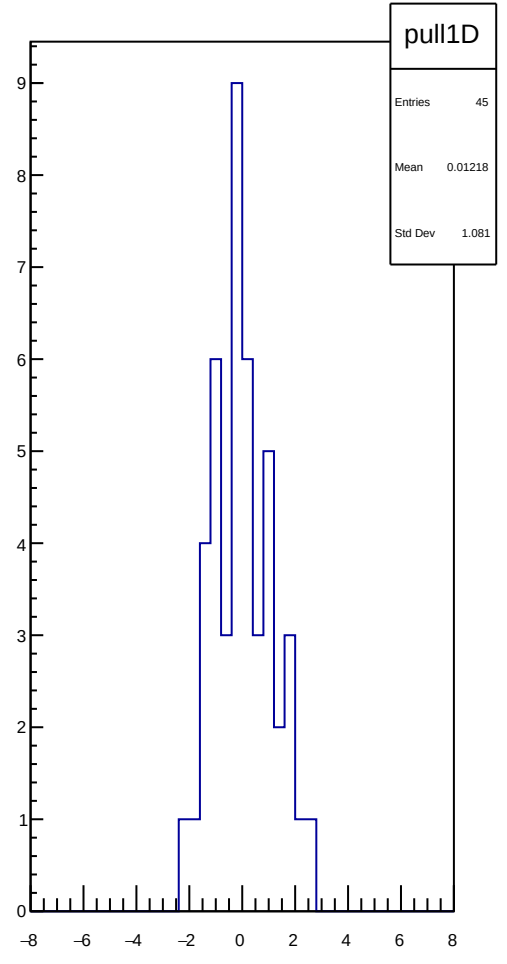

cor_sam5_rms vs run
χ² / ndf 1.296e+04 / 44
p0 1511 ± 1.624
1800
1600
1400
1200
1000
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

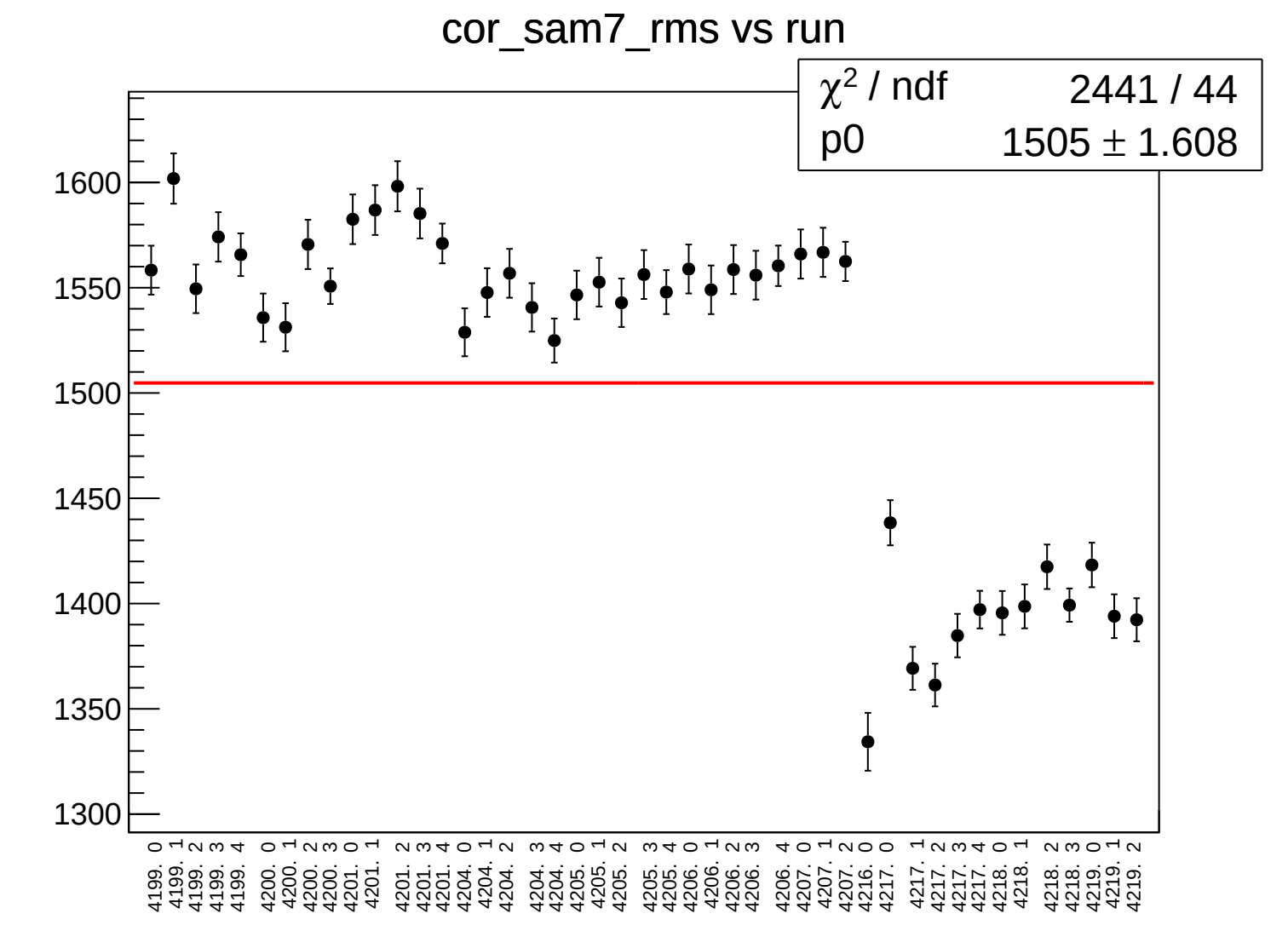

cor_sam6_mean vs run
×10^3
χ² / ndf 48.61 / 44
p0 2853 ± 3822
100
80
60
40
20
0
−20
−40
−60
−80
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −168.4
Std Dev 154.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

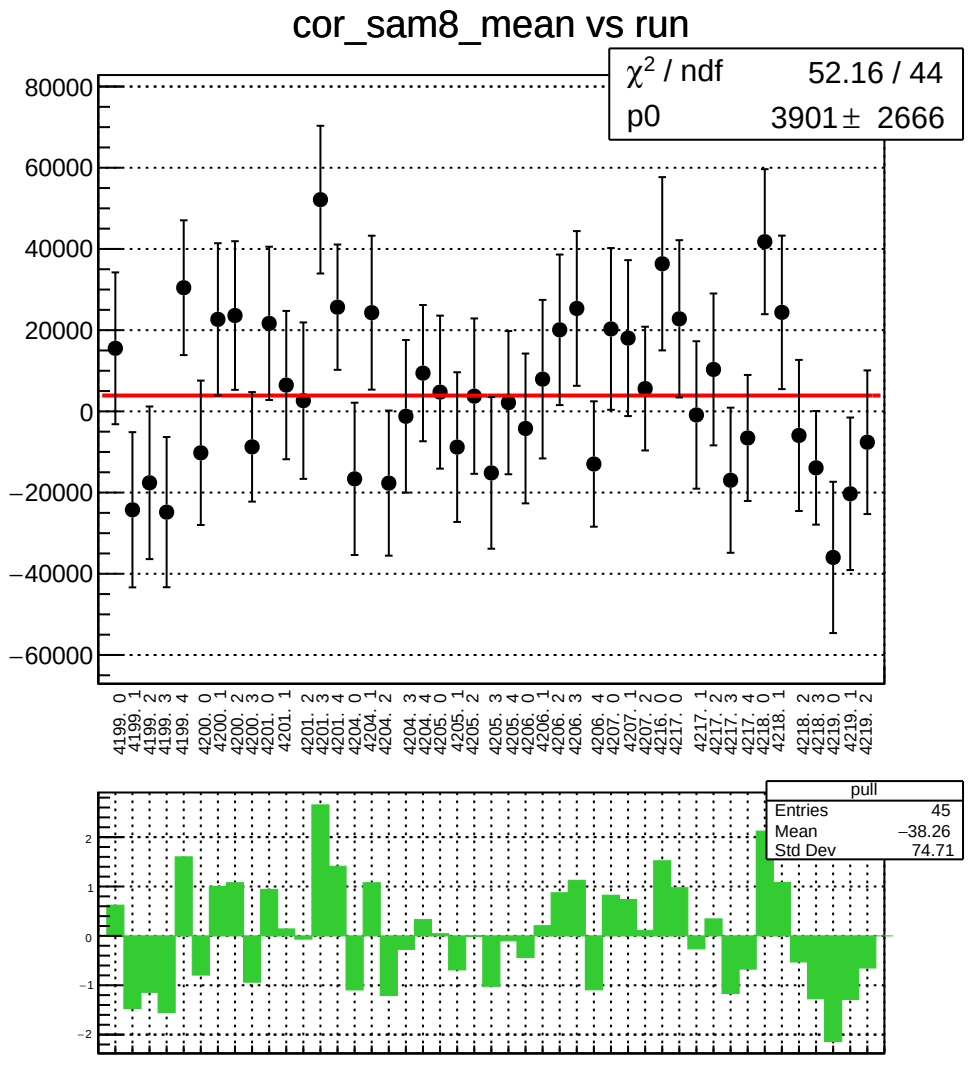

pull1D
Entries 45
Mean −0.001842
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

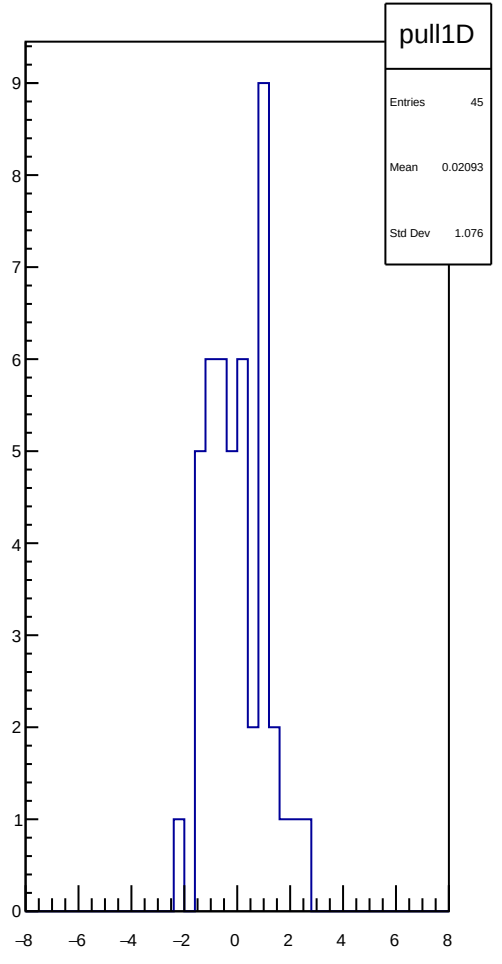

cor_sam6_rms vs run
χ² / ndf 2422 / 44
p0 2529 ± 2.702
2800
2600
2400
2200
2000
1800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

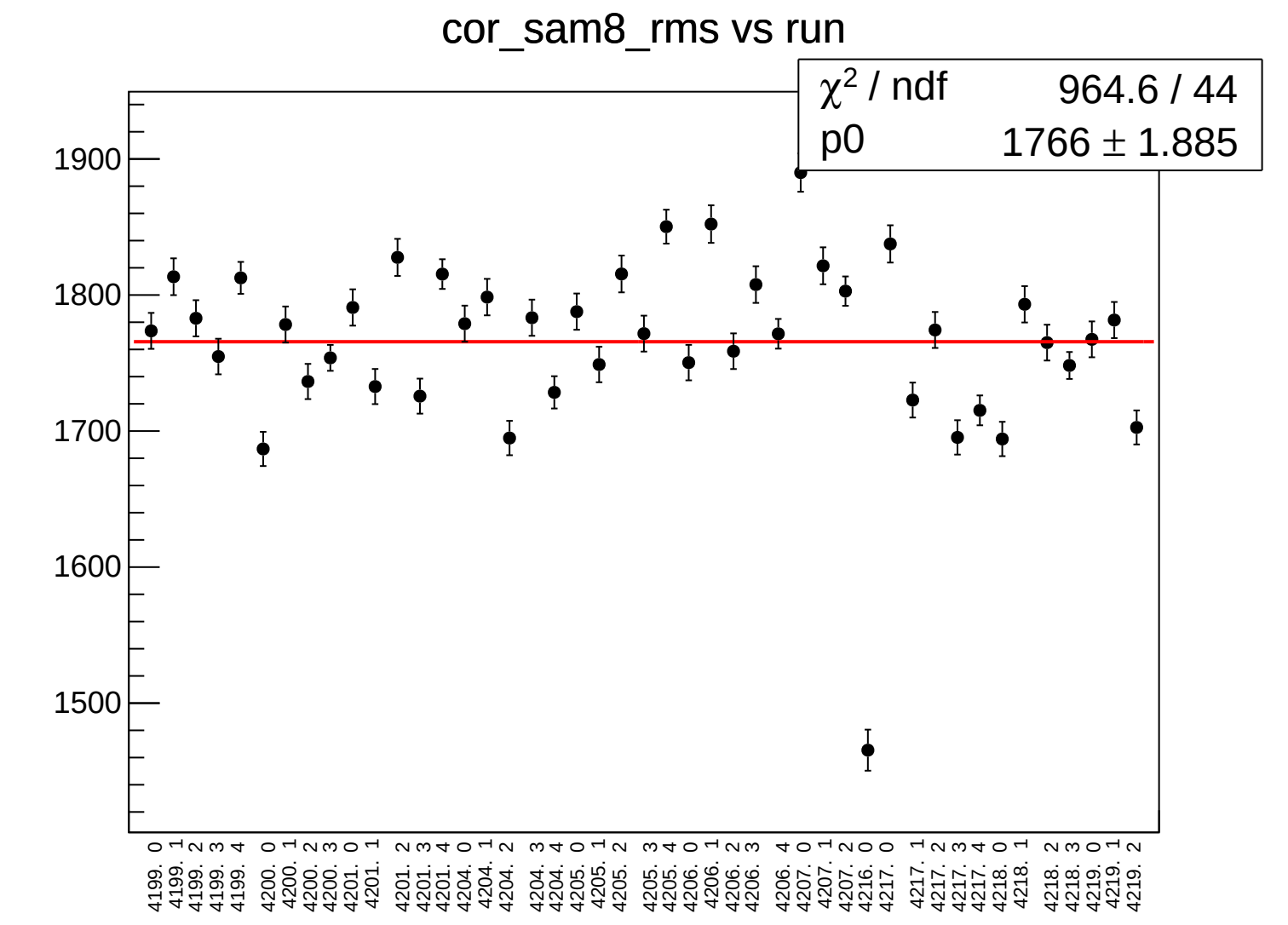

cor_sam7_mean vs run
χ² / ndf 52.6 / 44
p0 2646 ± 2274
60000
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −59.33
Std Dev 99.87
2
1
0
−1
−2

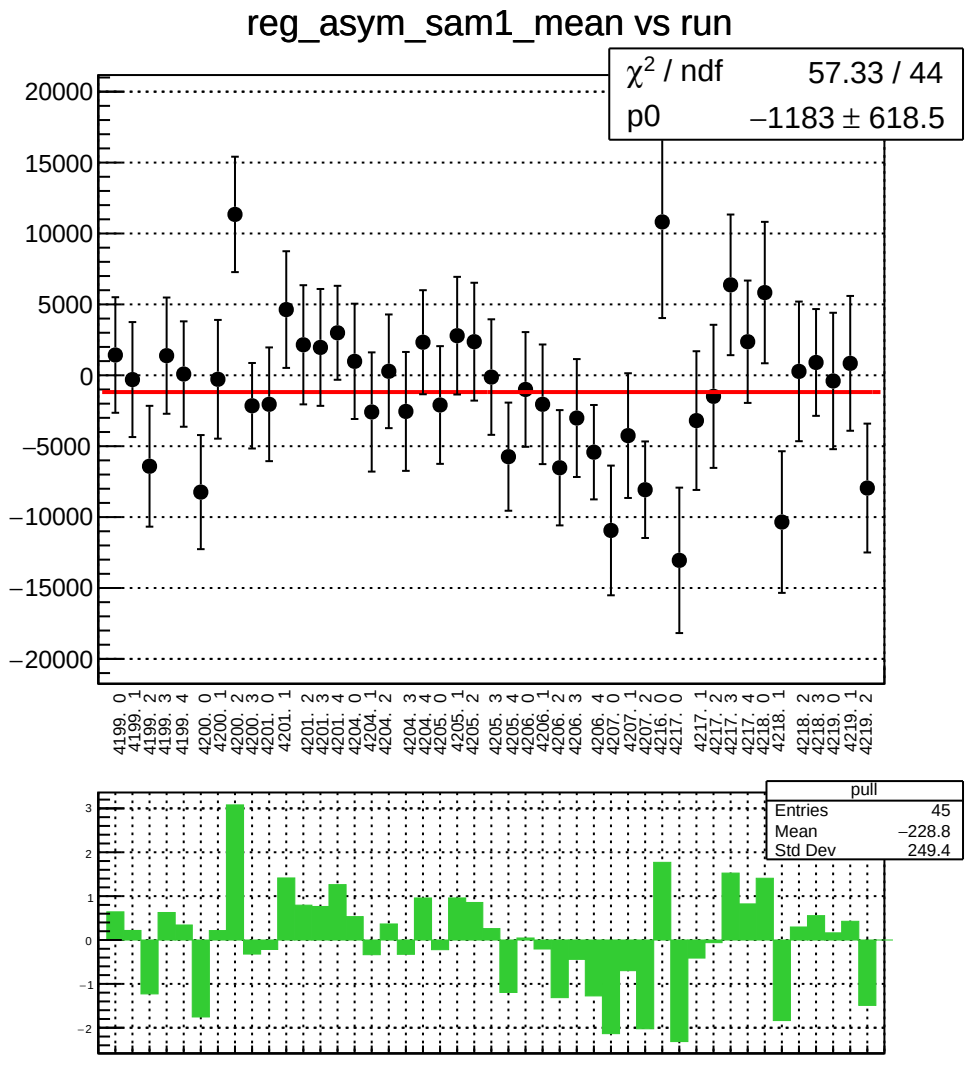

pull1D
Entries 45
Mean 0.01218
Std Dev 1.081
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

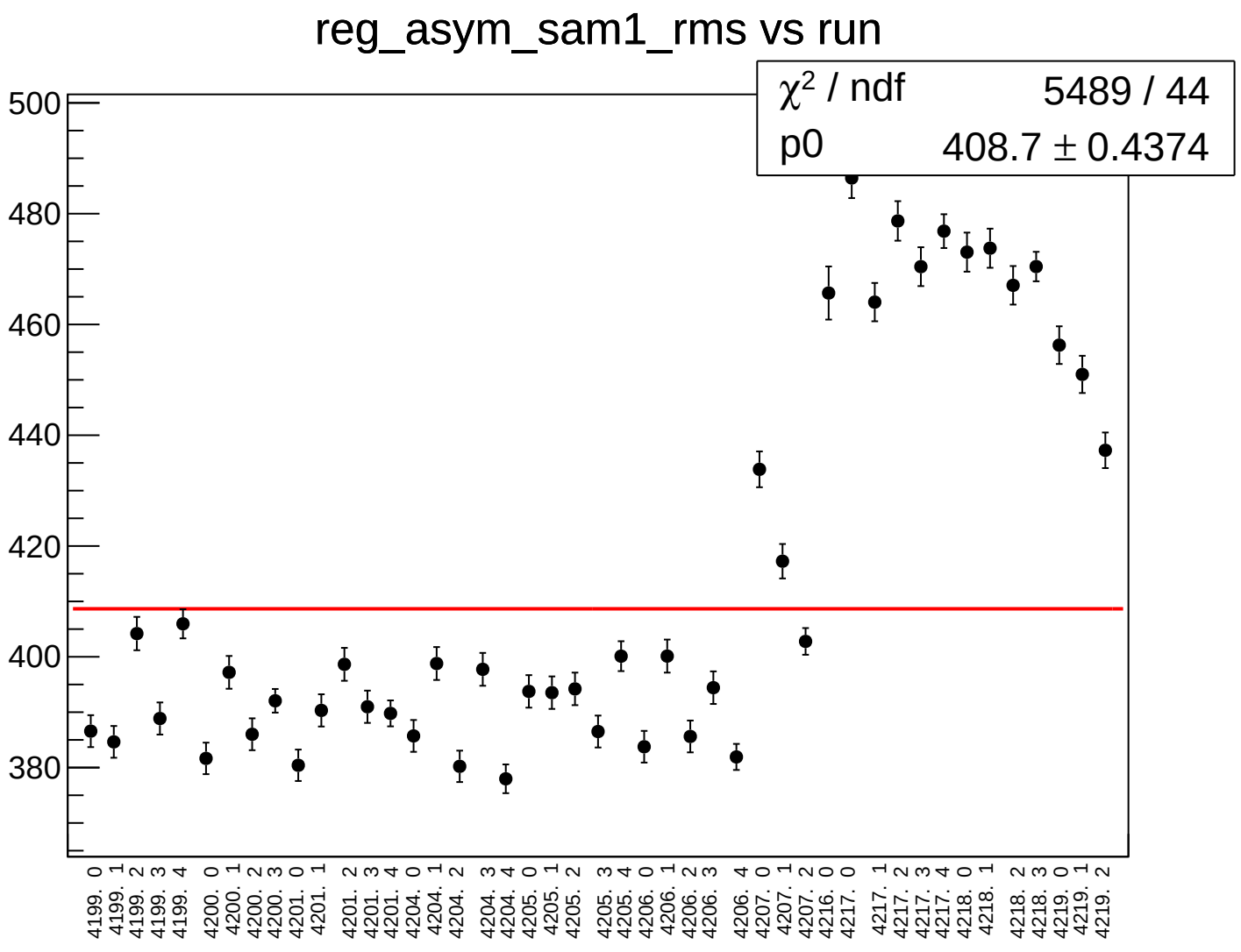

cor_sam7_rms vs run
χ² / ndf 2441 / 44
p0 1505 ± 1.608
1600
1550
1500
1450
1400
1350
1300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

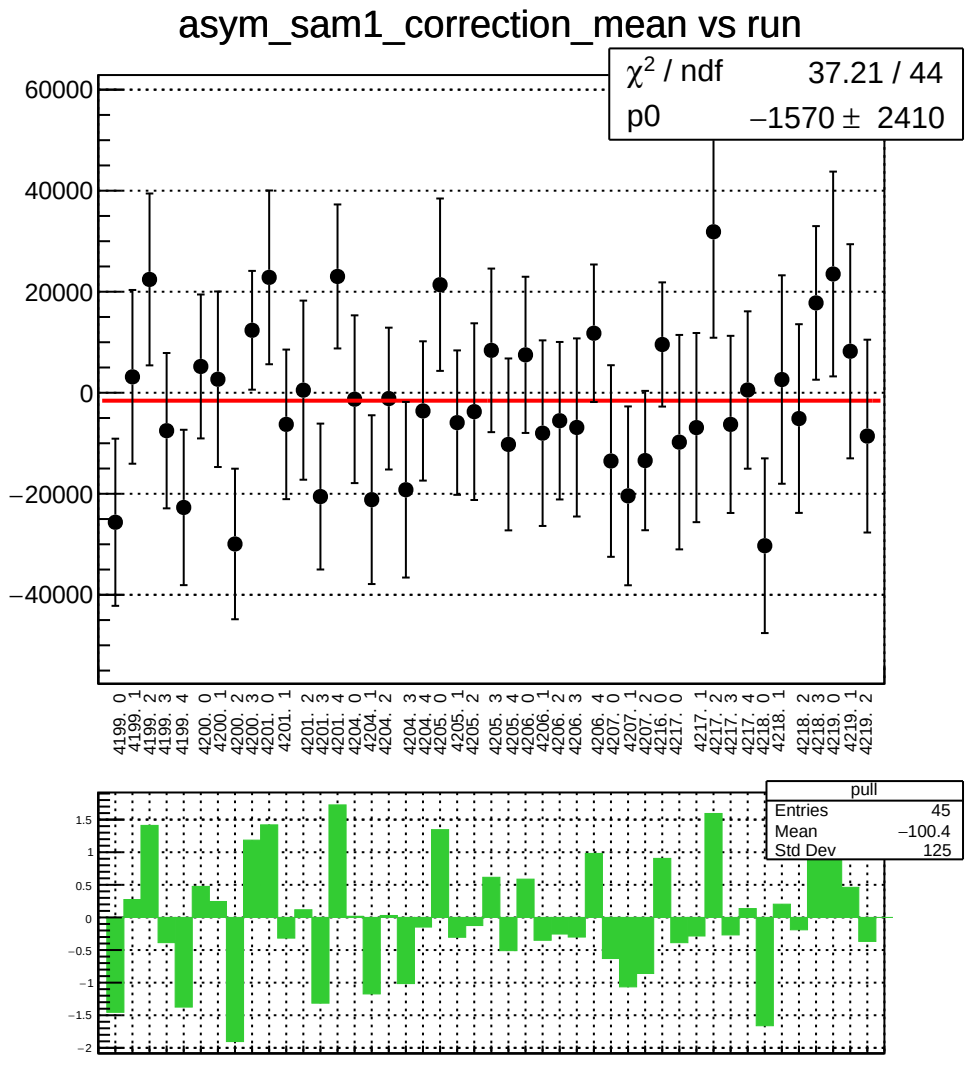

cor_sam8_mean vs run
χ² / ndf 52.16 / 44
p0 3901 ± 2666
80000
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −38.26
Std Dev 74.71
2
1
0
−1
−2

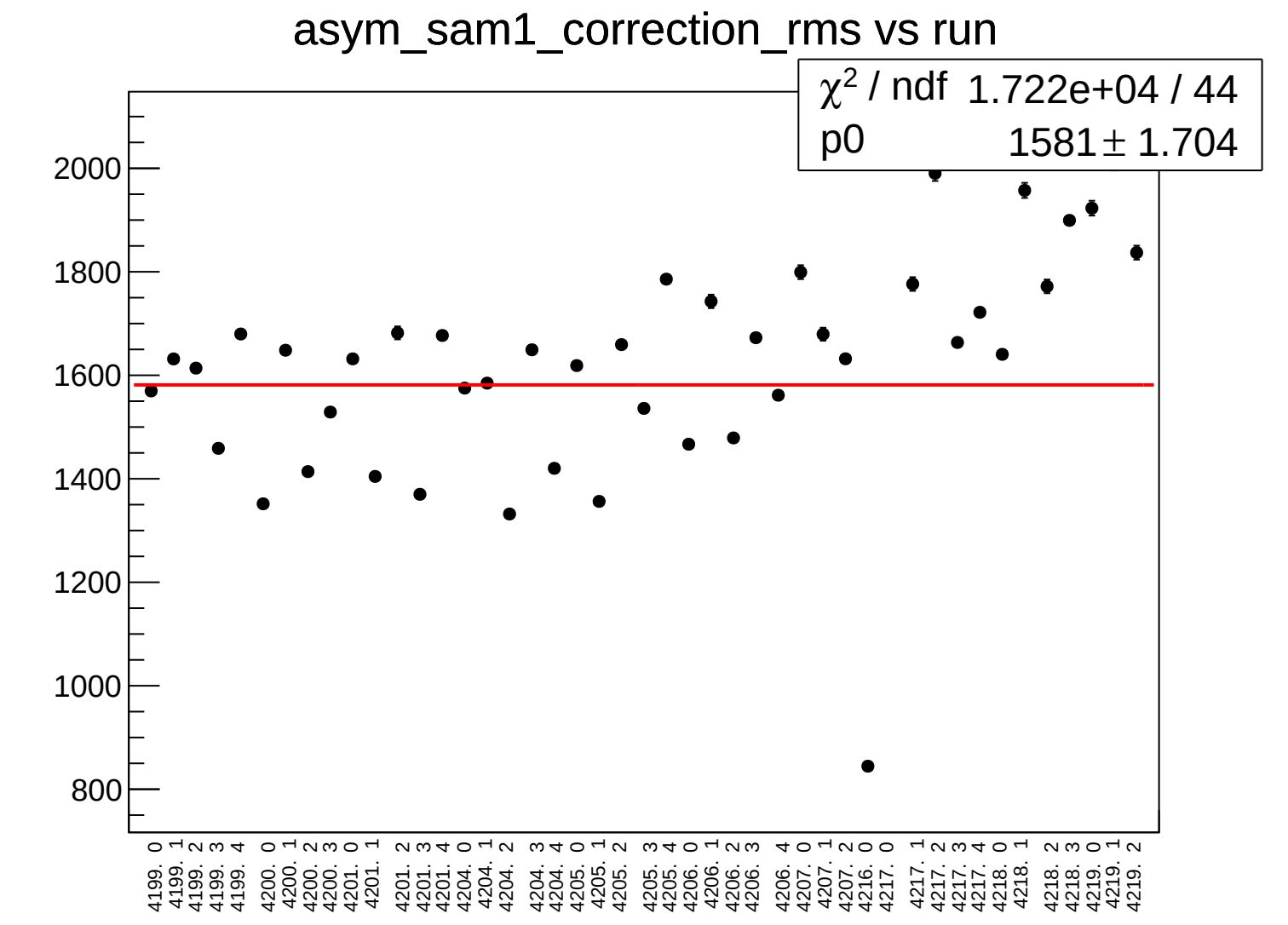

pull1D
Entries 45
Mean 0.02093
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

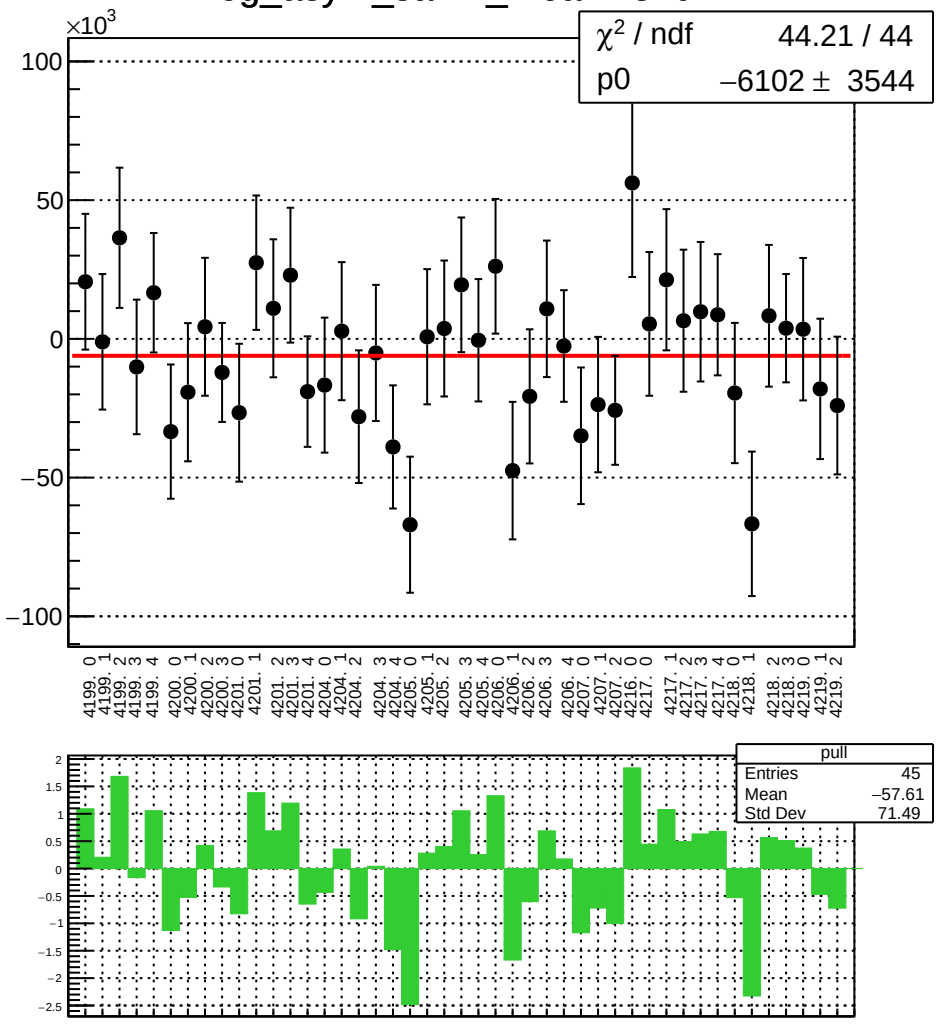

cor_sam8_rms vs run
χ² / ndf 964.6 / 44
p0 1766 ± 1.885
1900
1800
1700
1600
1500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

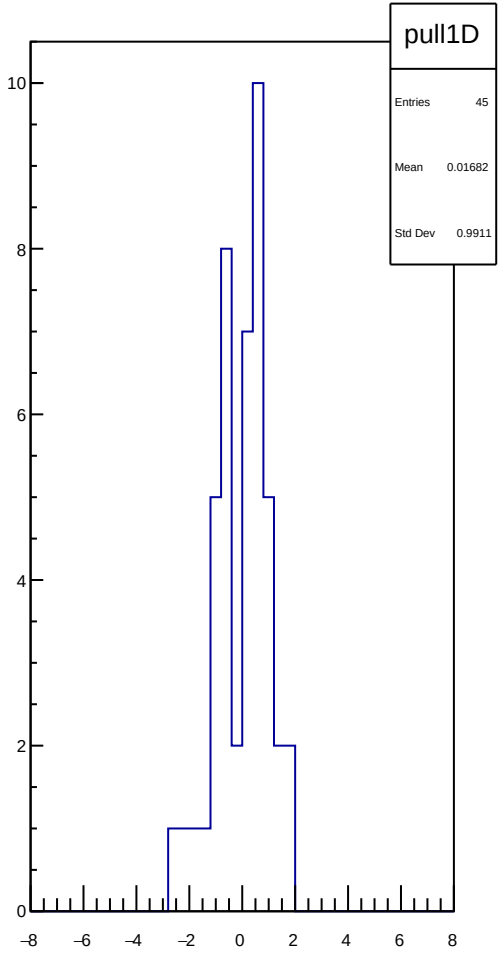

reg_asym_sam1_mean vs run
χ² / ndf 57.33 / 44
p0 −1183 ± 618.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −228.8
Std Dev 249.4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01119
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

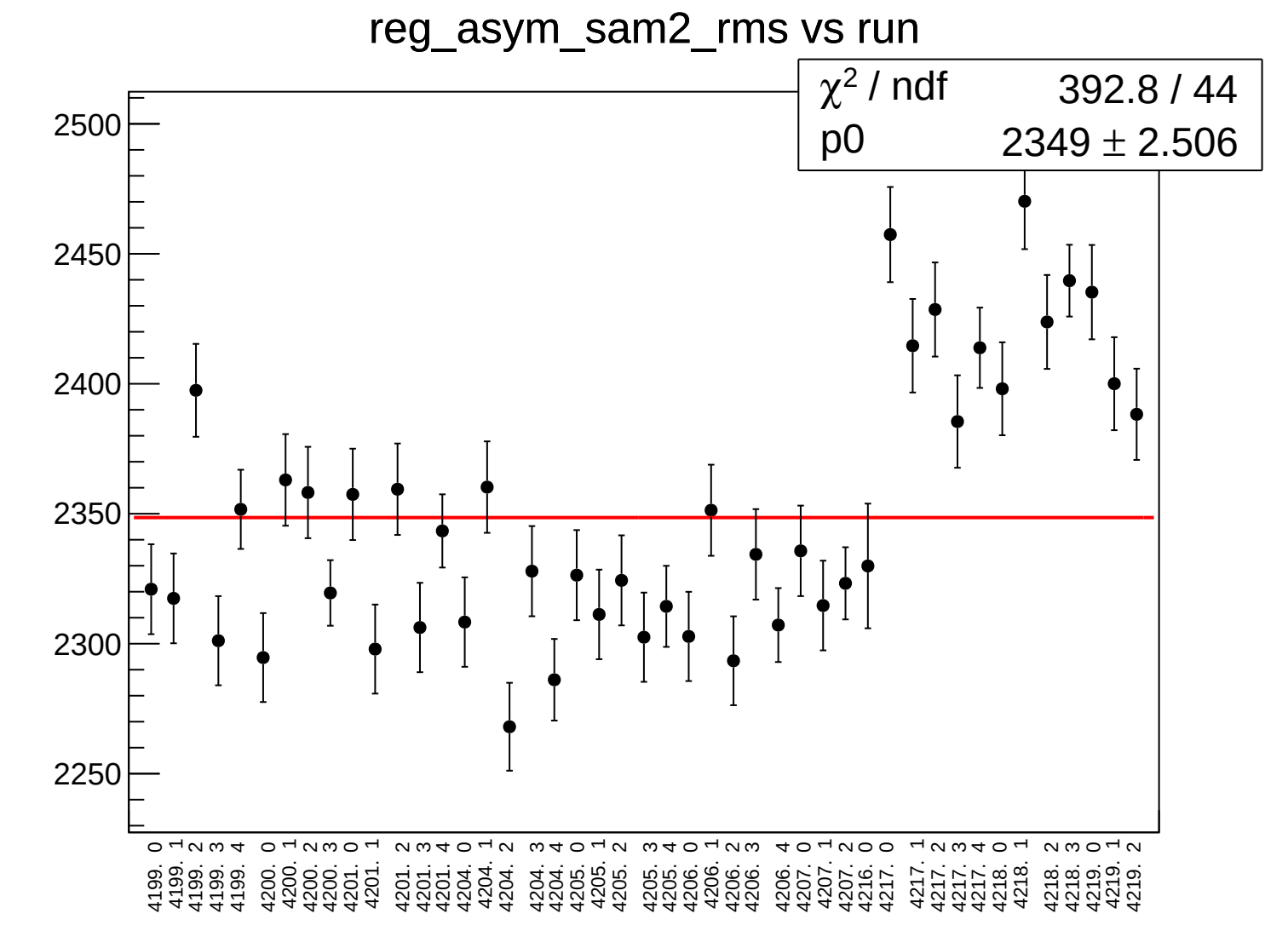

reg_asym_sam1_rms vs run
χ² / ndf 5489 / 44
p0 408.7 ± 0.4374
500
480
460
440
420
400
380
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

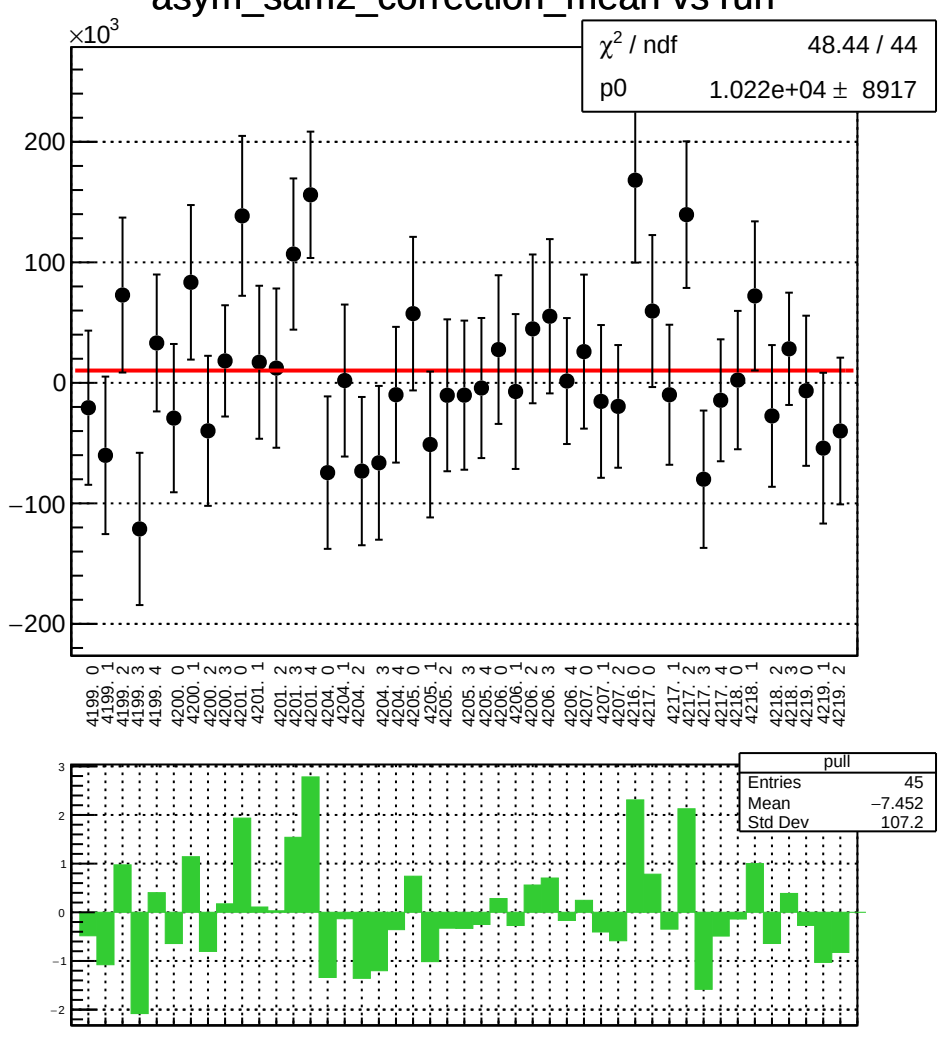

asym_sam1_correction_mean vs run
χ² / ndf 37.21 / 44
p0 −1570 ± 2410
60000
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −100.4
Std Dev 125
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.008806
Std Dev 0.9093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

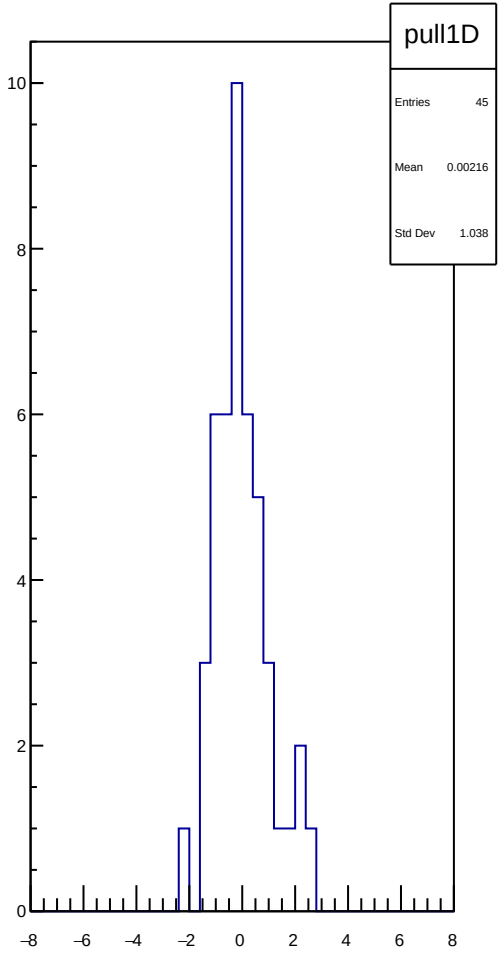

asym_sam1_correction_rms vs run
χ² / ndf 1.722e+04 / 44
p0 1581 ± 1.704
2000
1800
1600
1400
1200
1000
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

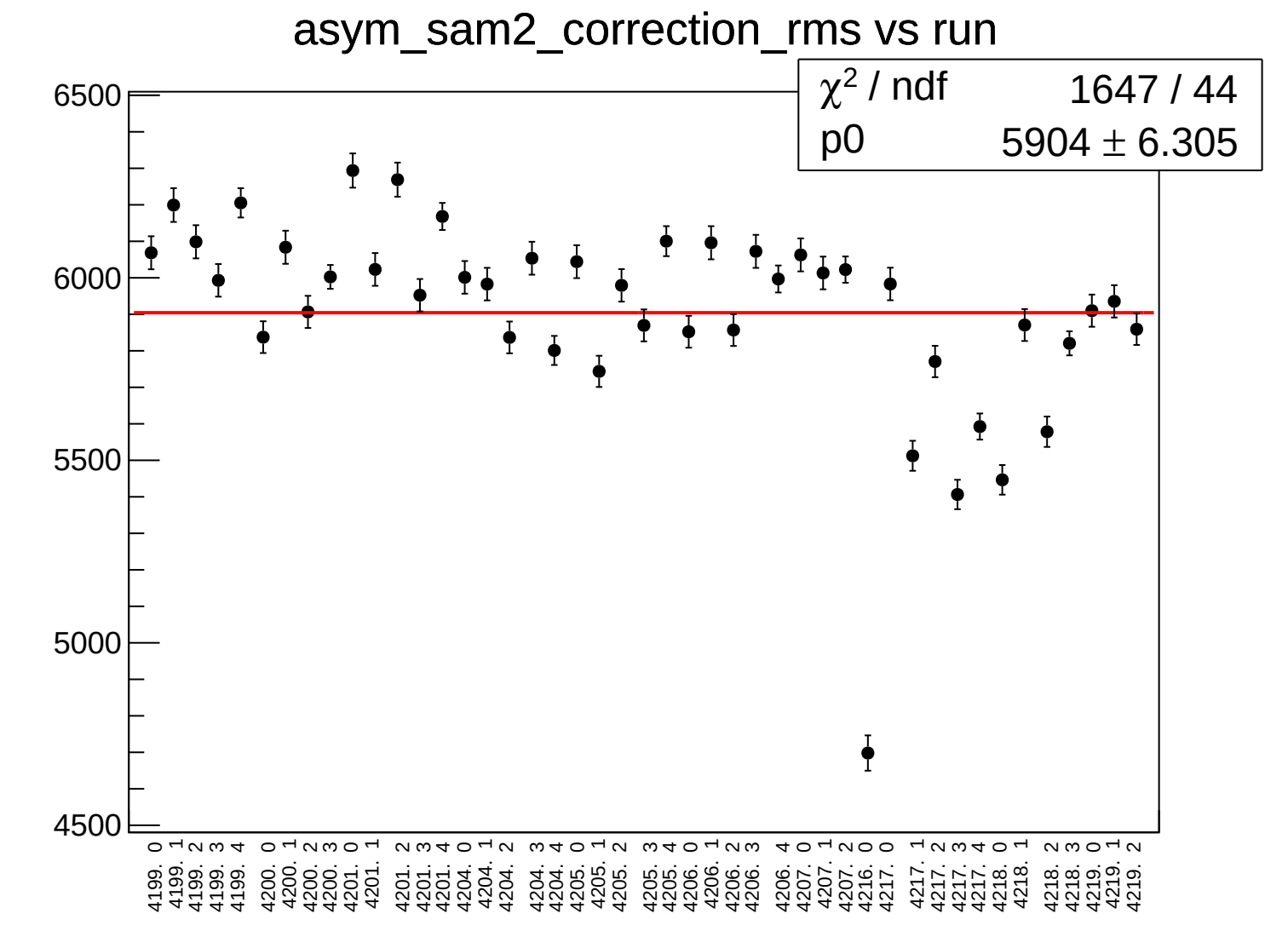

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 44.21 / 44
p0 −6102 ± 3544
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −57.61
Std Dev 71.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

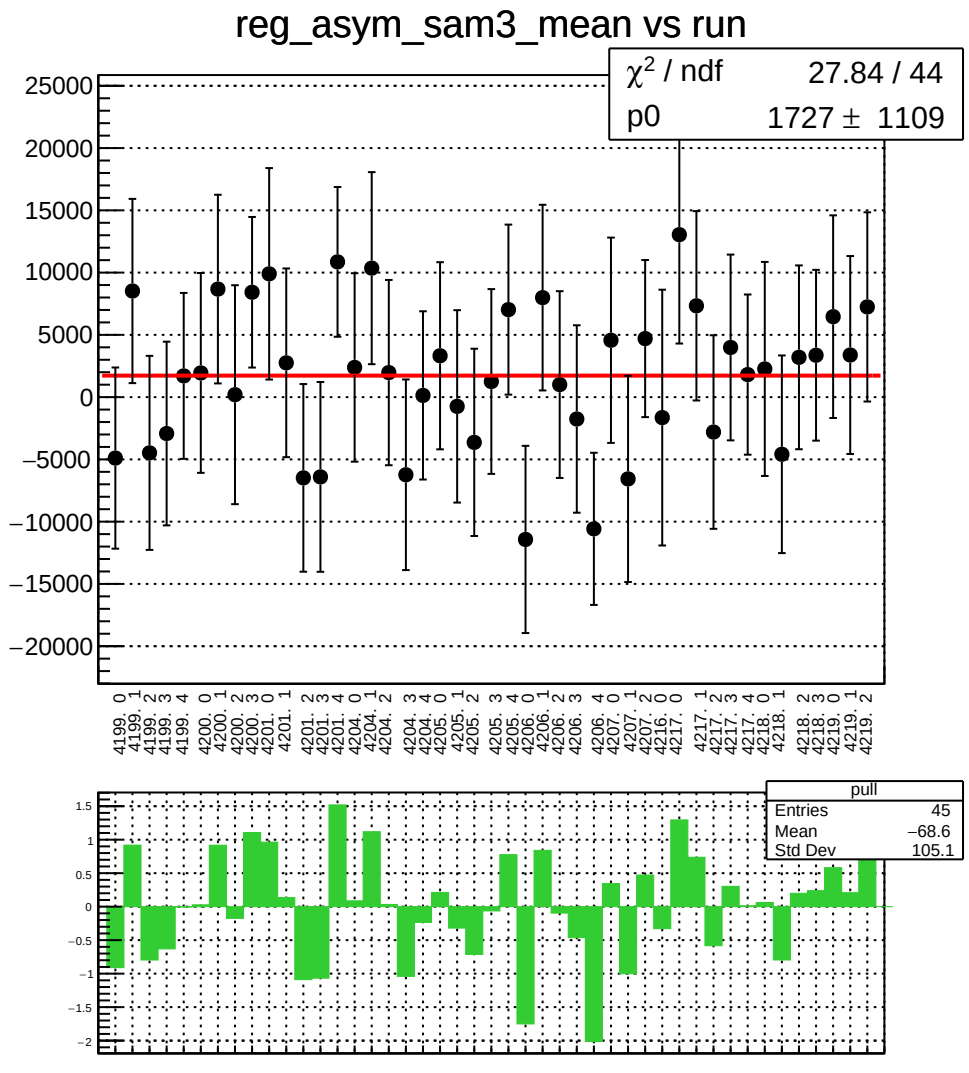

pull1D
Entries 45
Mean 0.01682
Std Dev 0.9911
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

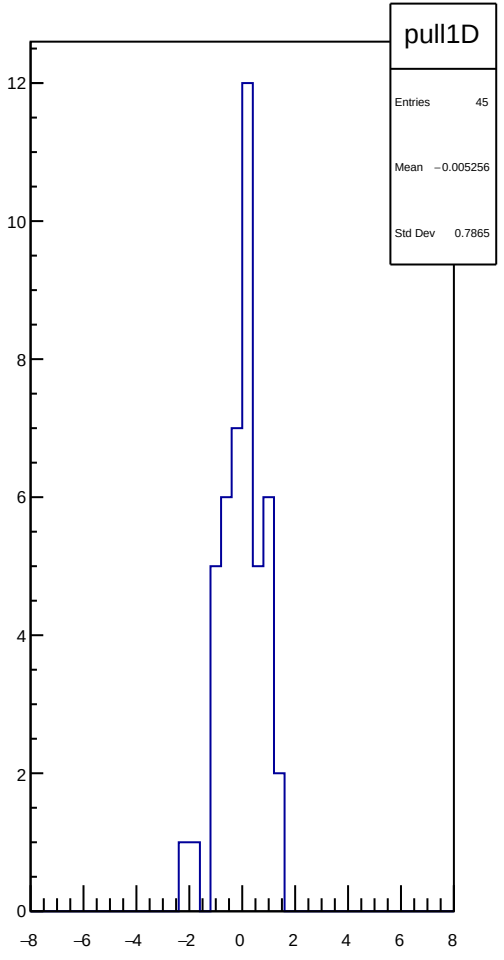

reg_asym_sam2_rms vs run
χ² / ndf 392.8 / 44
p0 2349 ± 2.506
2500
2450
2400
2350
2300
2250
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

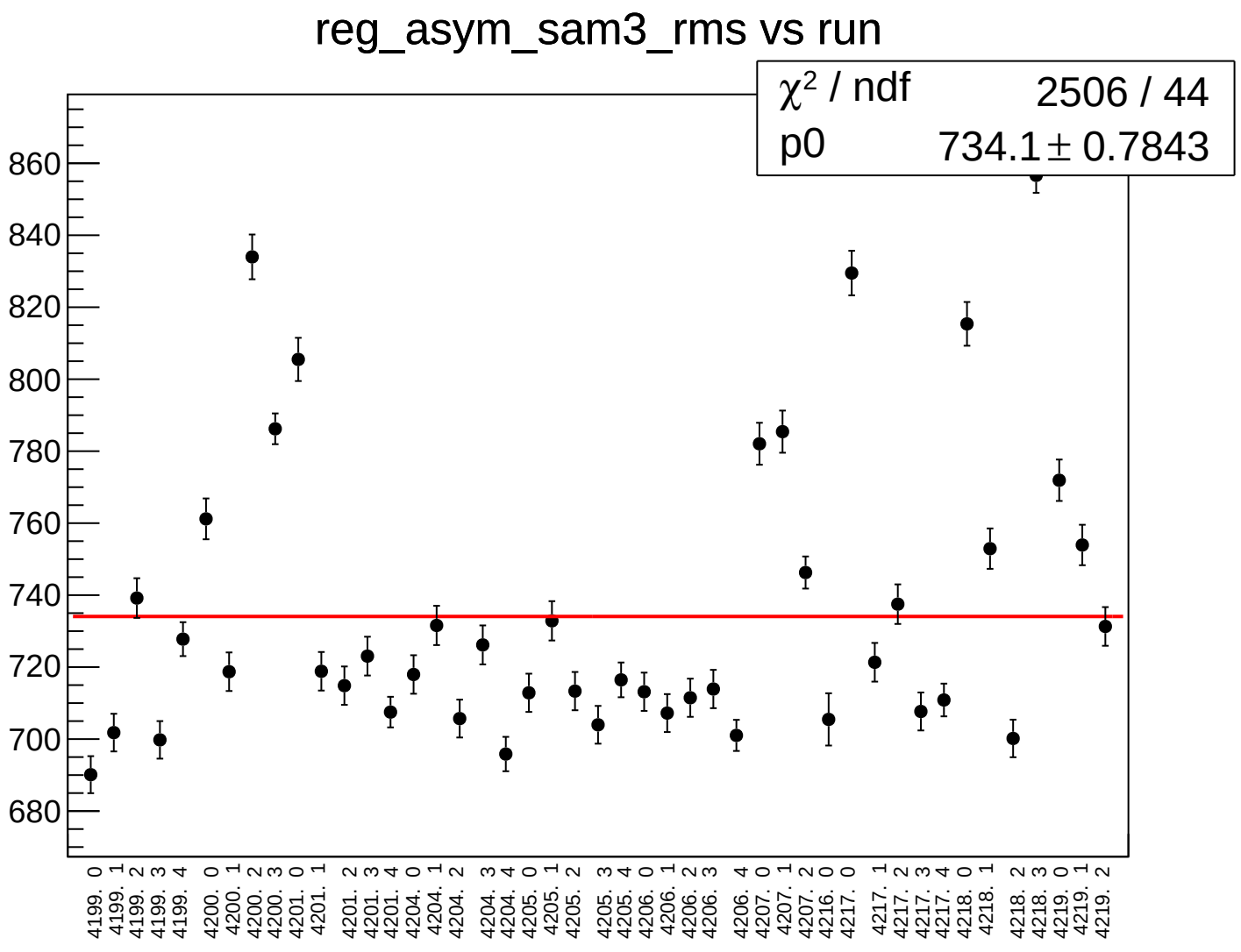

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 48.44 / 44
p0 1.022e+04 ± 8917
200
100
0
−100
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −7.452
Std Dev 107.2
3
2
1
0
−1
−2

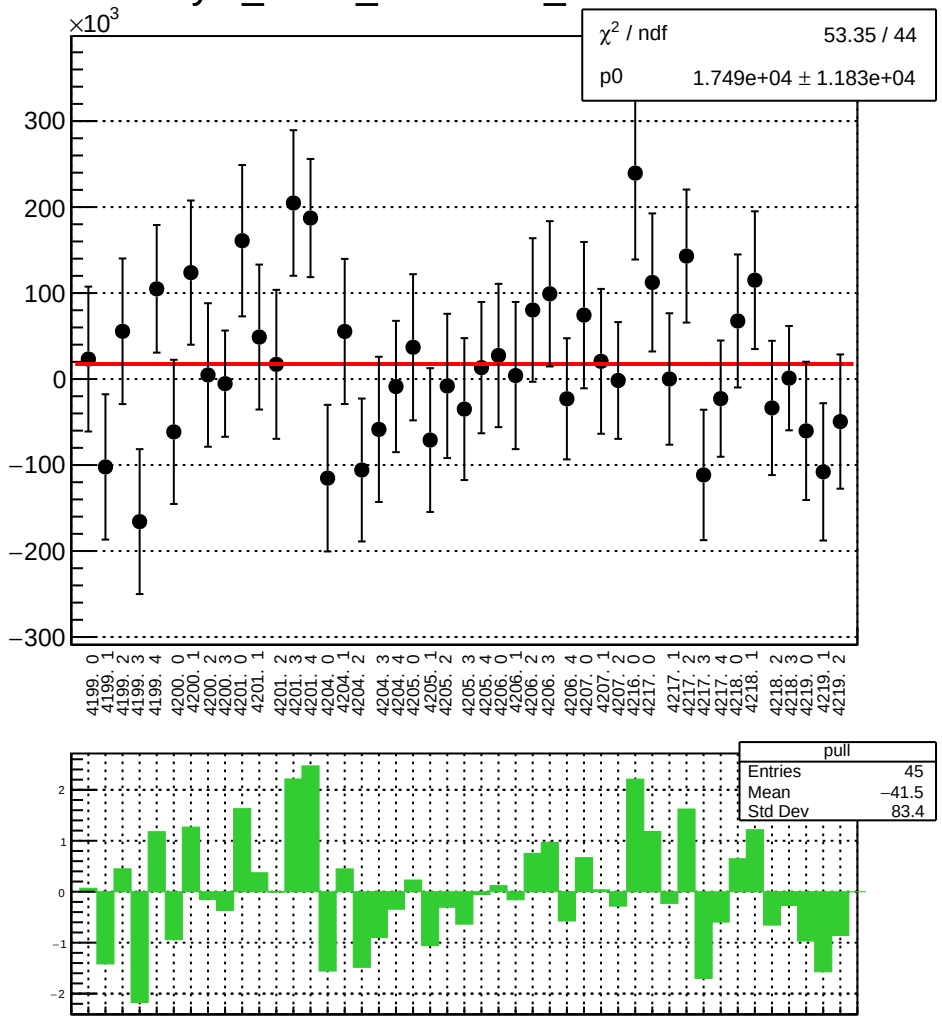

pull1D
Entries 45
Mean 0.00216
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

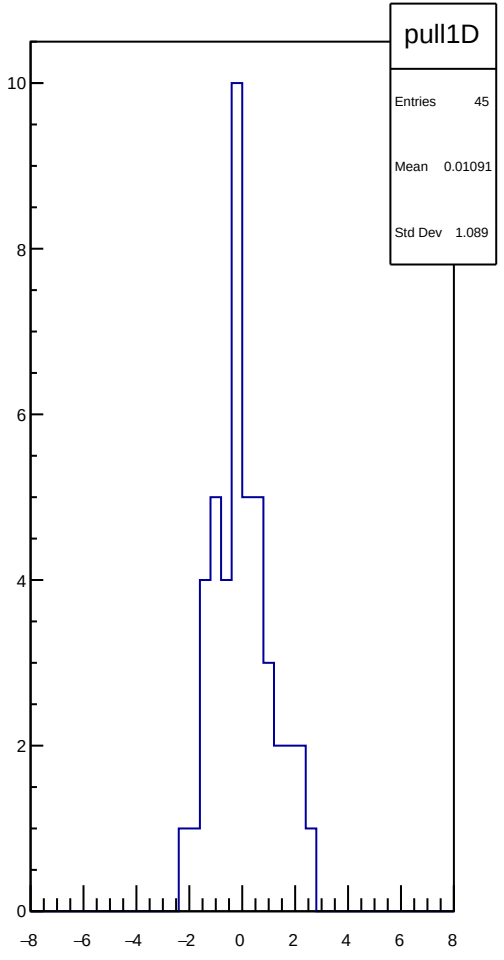

asym_sam2_correction_rms vs run
χ² / ndf 1647 / 44
p0 5904 ± 6.305
6500
6000
5500
5000
4500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

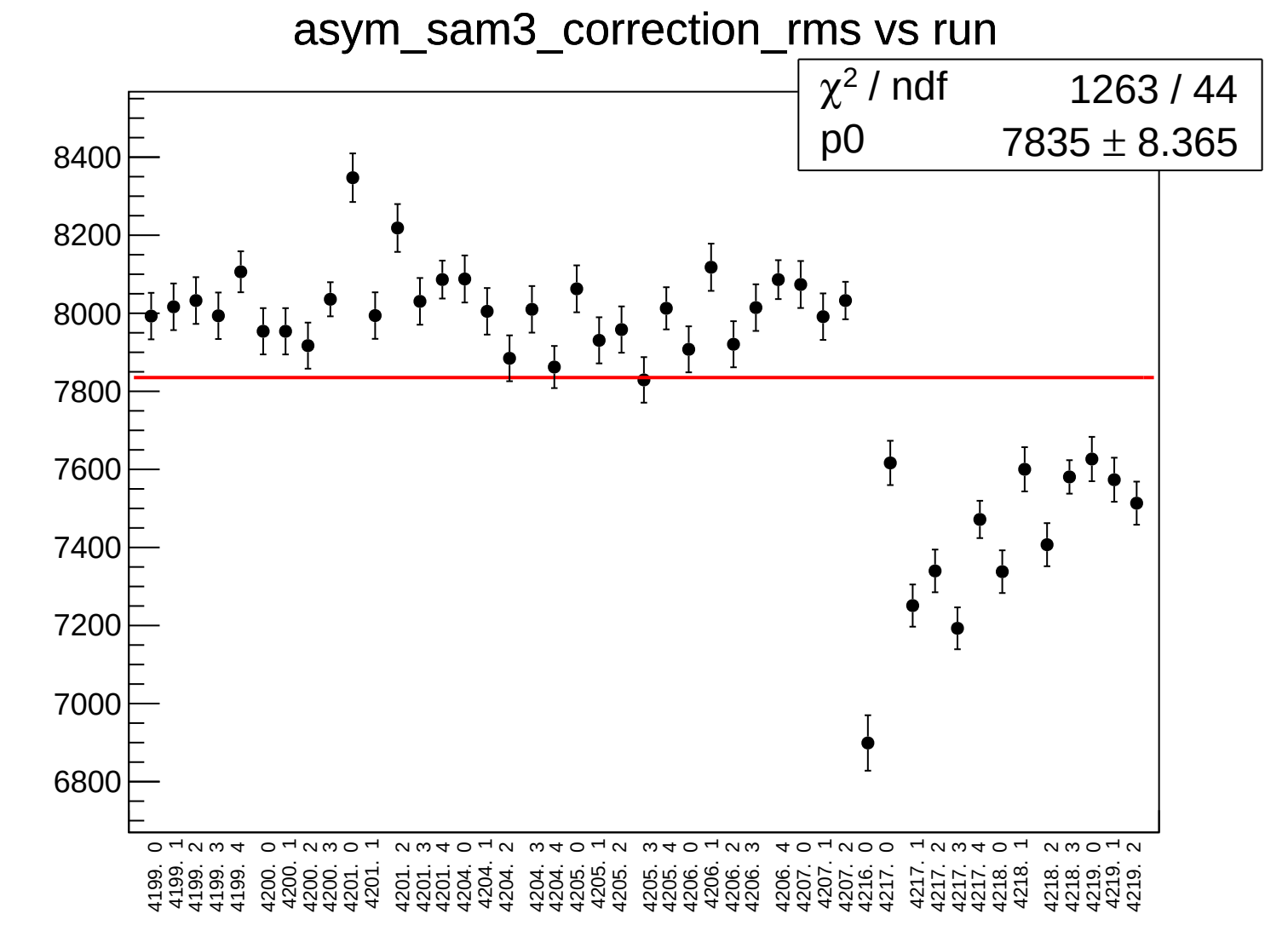

reg_asym_sam3_mean vs run
χ² / ndf 27.84 / 44
p0 1727 ± 1109
pull
Entries 45
Mean −68.6
Std Dev 105.1

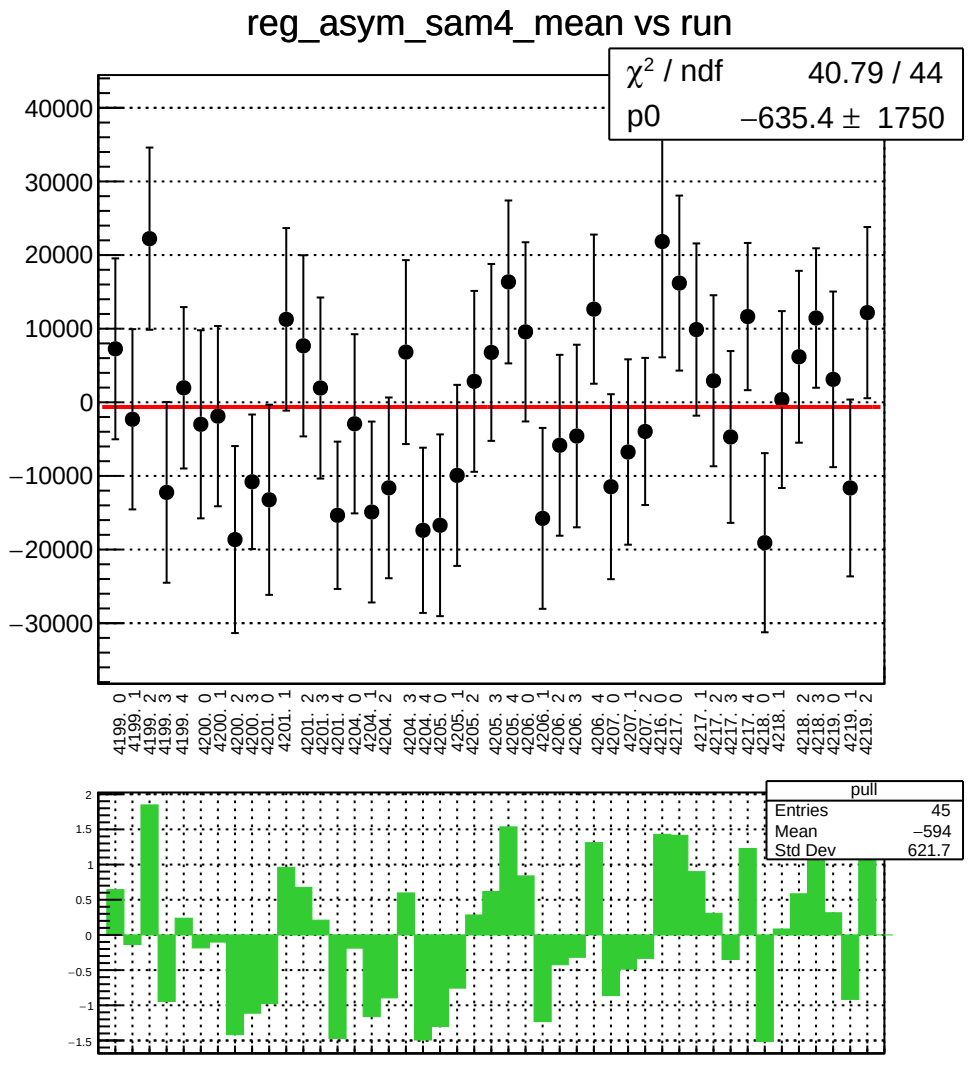

pull1D
Entries 45
Mean −0.005256
Std Dev 0.7865

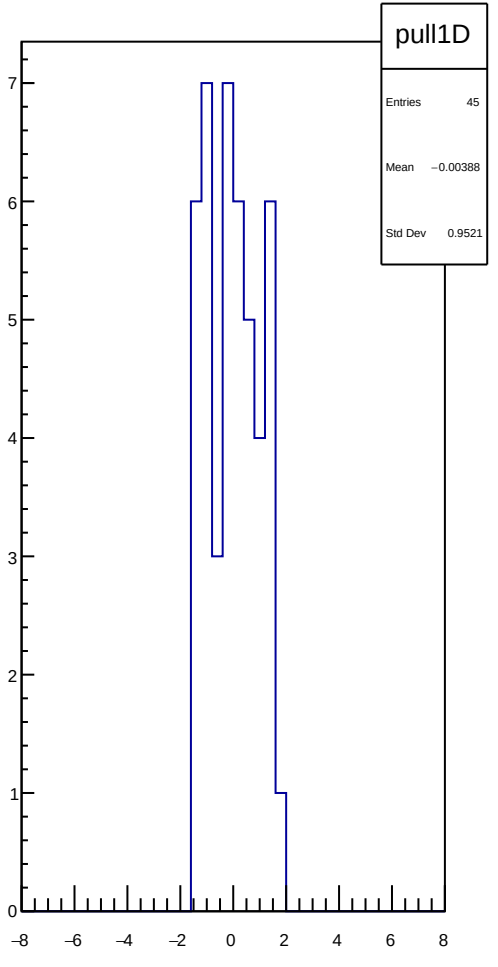

reg_asym_sam3_rms vs run
χ² / ndf 2506 / 44
p0 734.1 ± 0.7843
860
840
820
800
780
760
740
720
700
680
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

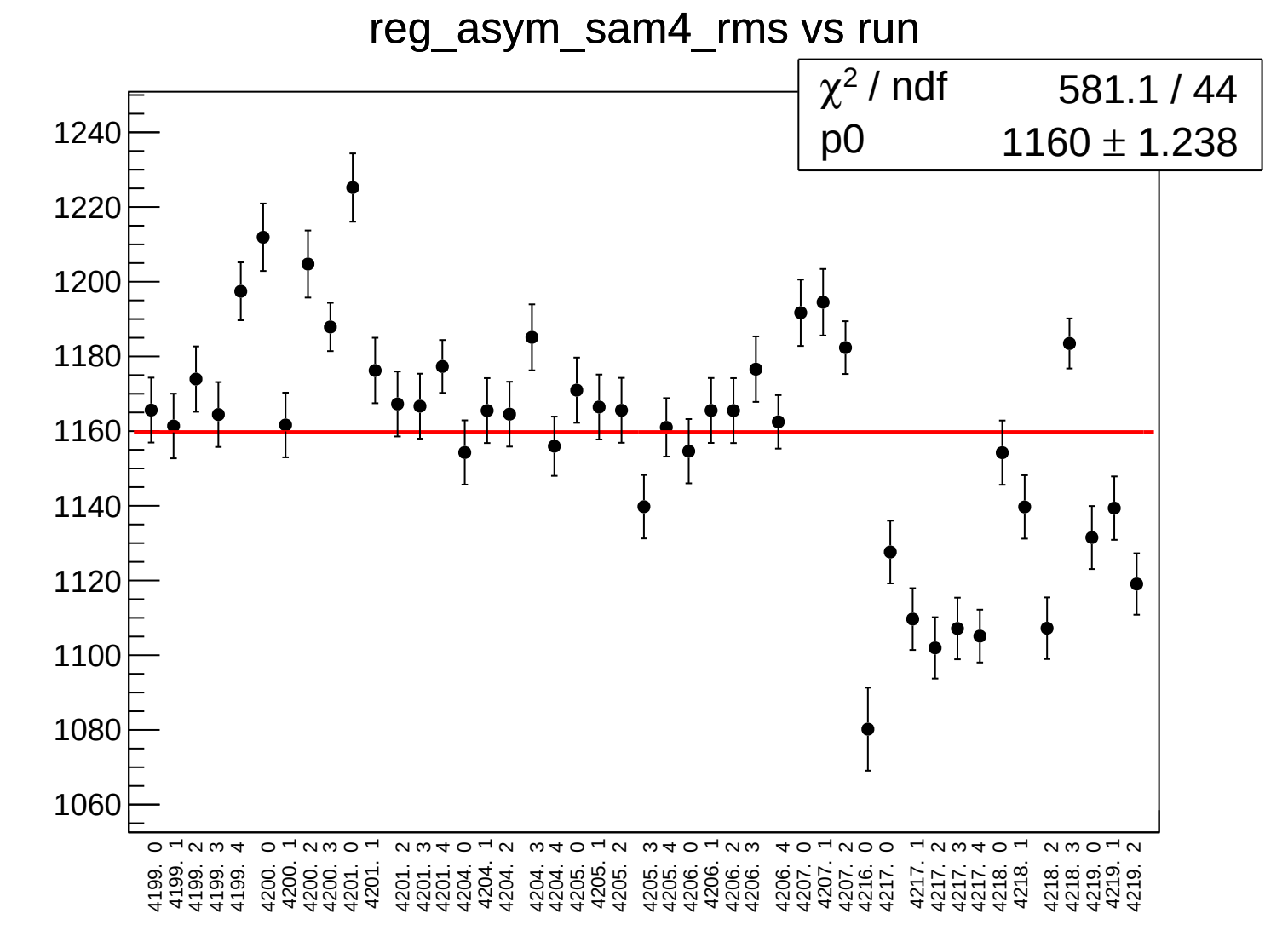

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 53.35 / 44
p0 1.749e+04 ± 1.183e+04
300
200
100
0
−100
−200
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −41.5
Std Dev 83.4
2
1
0
−1
−2

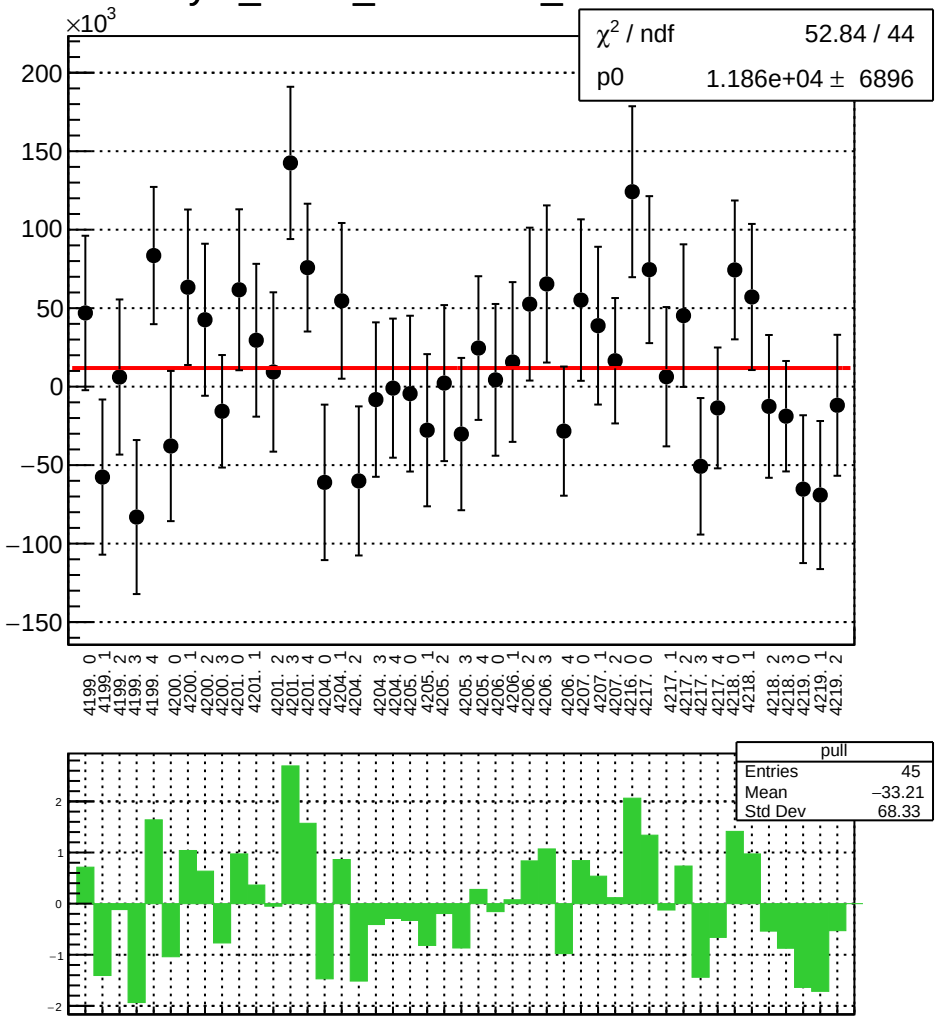

pull1D
Entries 45
Mean 0.01091
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

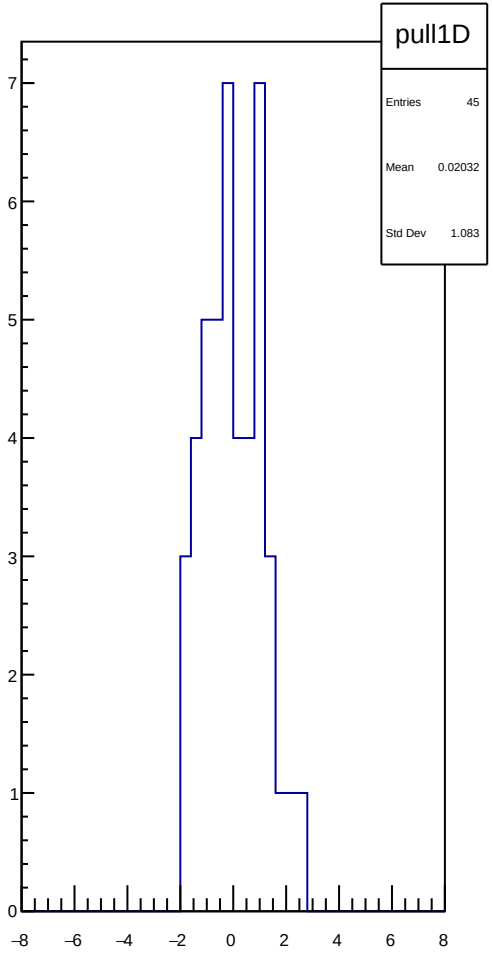

asym_sam3_correction_rms vs run
χ² / ndf 1263 / 44
p0 7835 ± 8.365
8400
8200
8000
7800
7600
7400
7200
7000
6800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

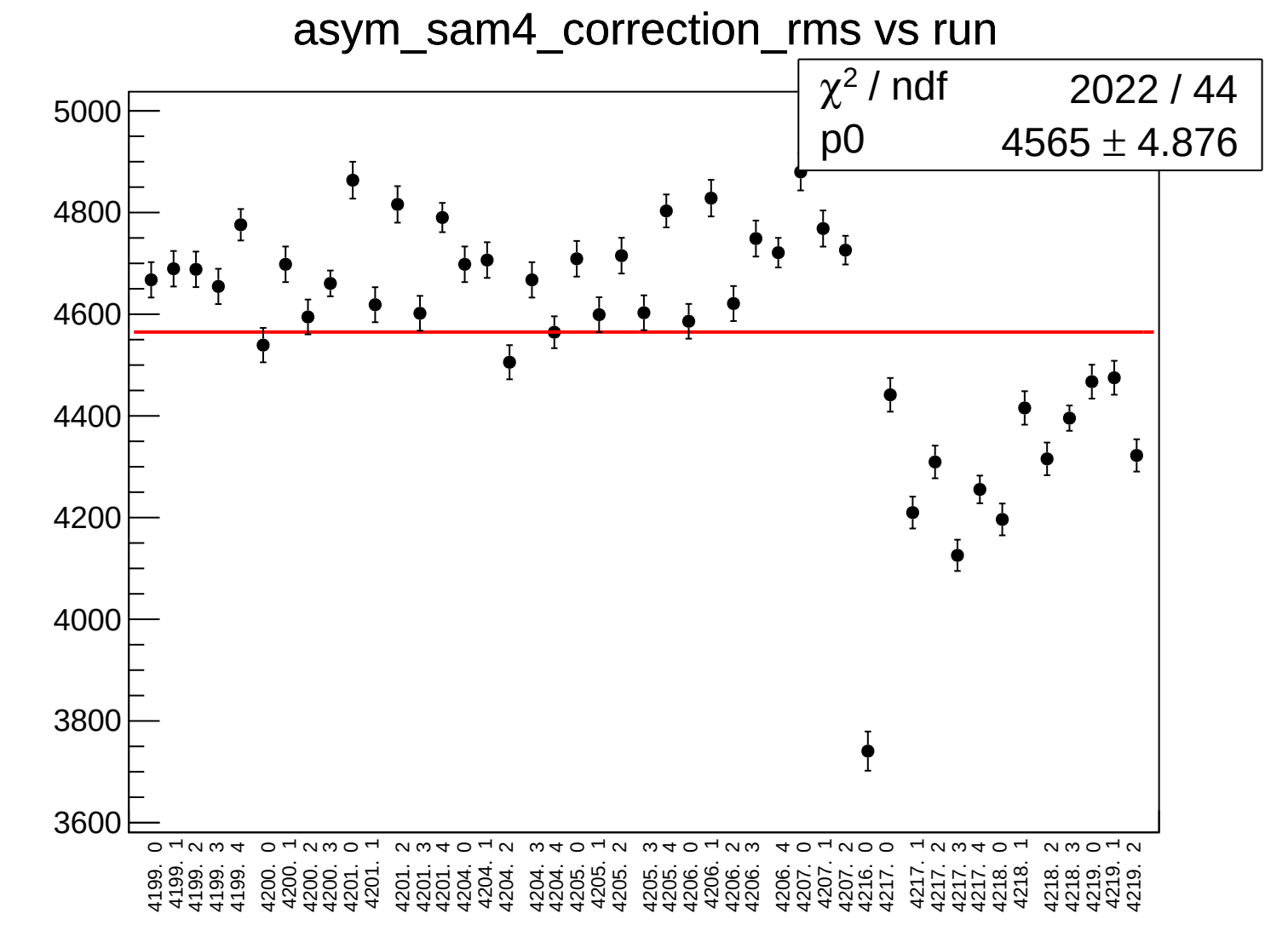

reg_asym_sam4_mean vs run
χ² / ndf 40.79 / 44
p0 −635.4 ± 1750
40000
30000
20000
10000
0
−10000
−20000
−30000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −594
Std Dev 621.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

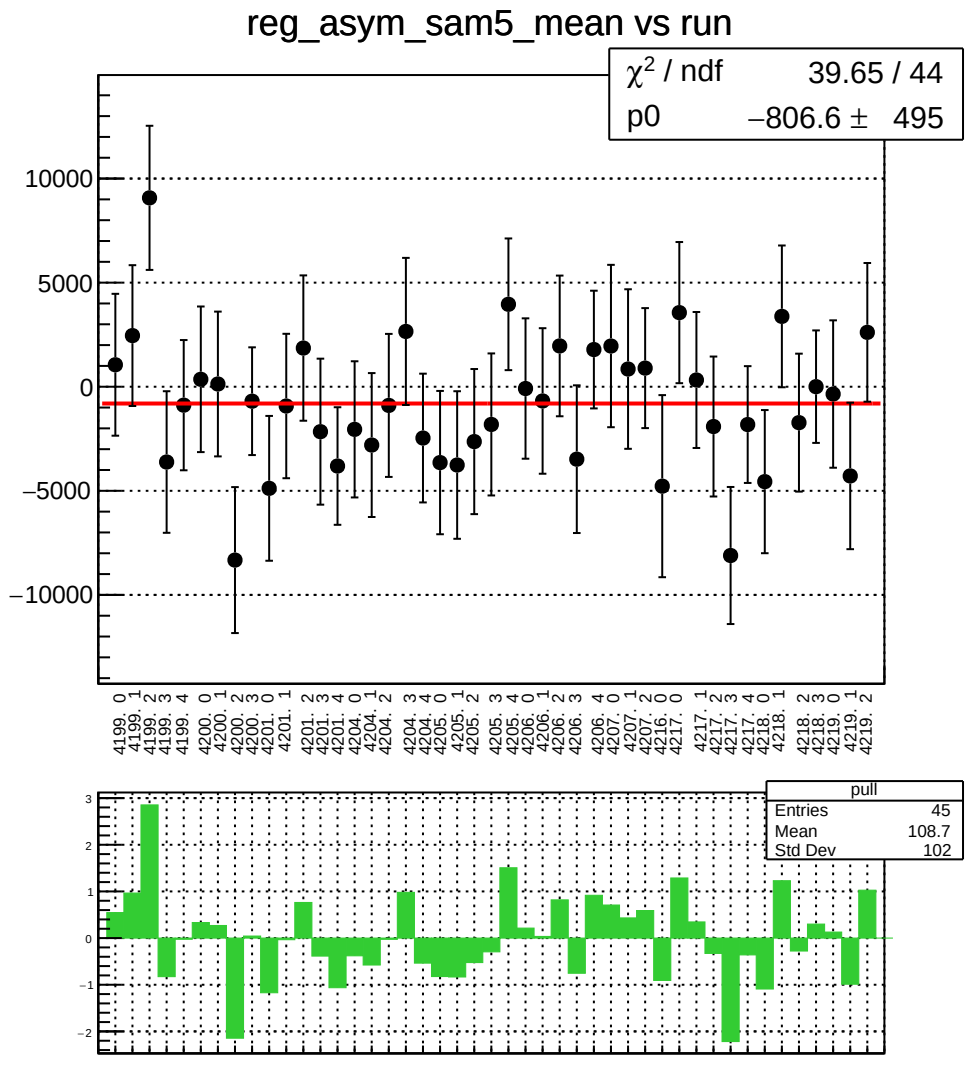

pull1D
Entries 45
Mean −0.00388
Std Dev 0.9521
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

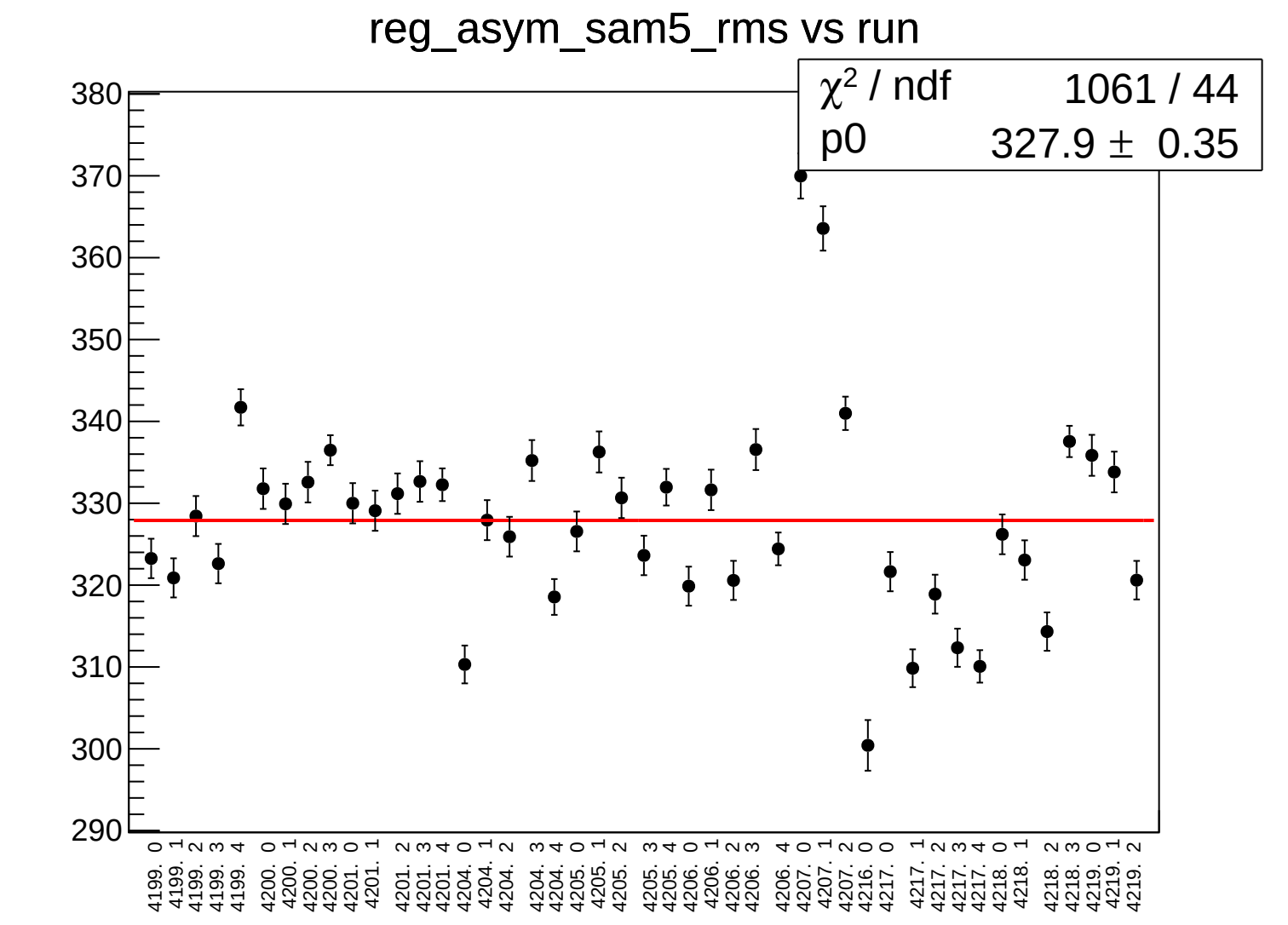

reg_asym_sam4_rms vs run
χ² / ndf 581.1 / 44
p0 1160 ± 1.238
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

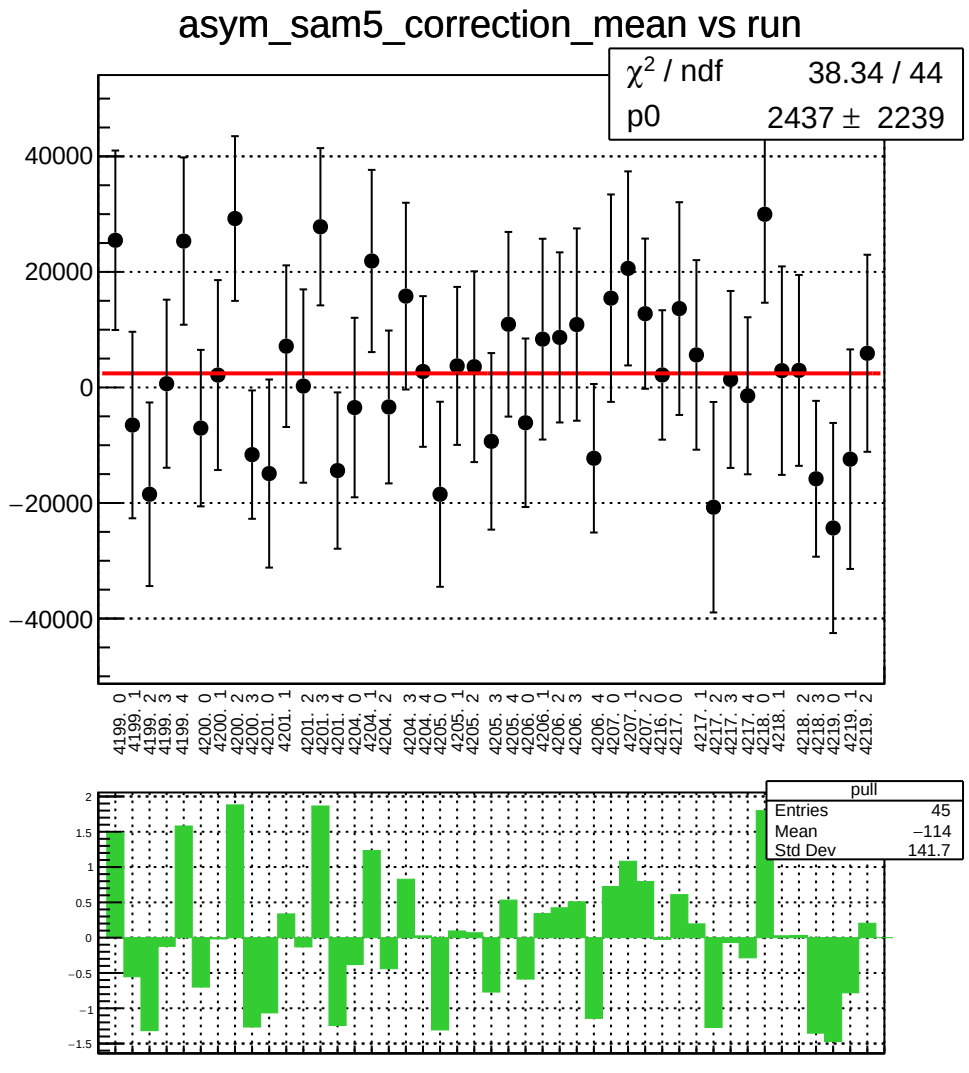

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 52.84 / 44
p0 1.186e+04 ± 6896
200
150
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −33.21
Std Dev 68.33
2
1
0
−1
−2

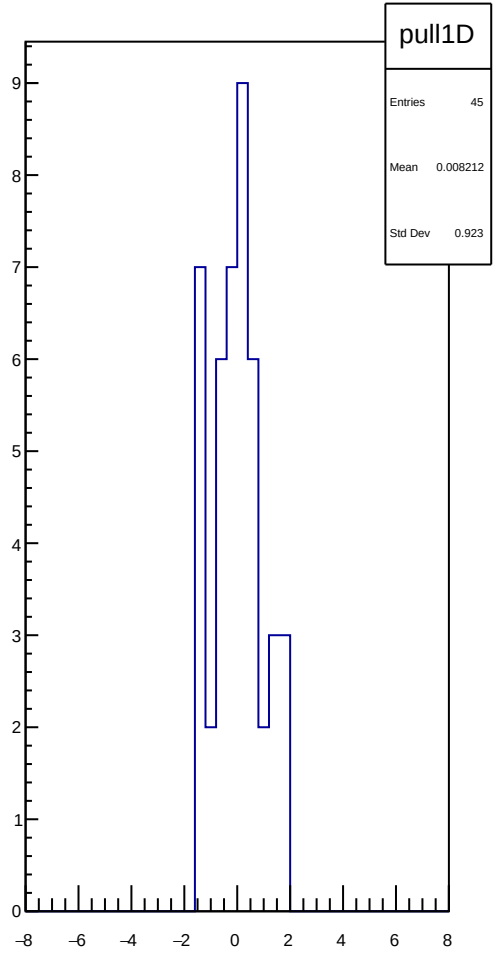

pull1D
Entries 45
Mean 0.02032
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

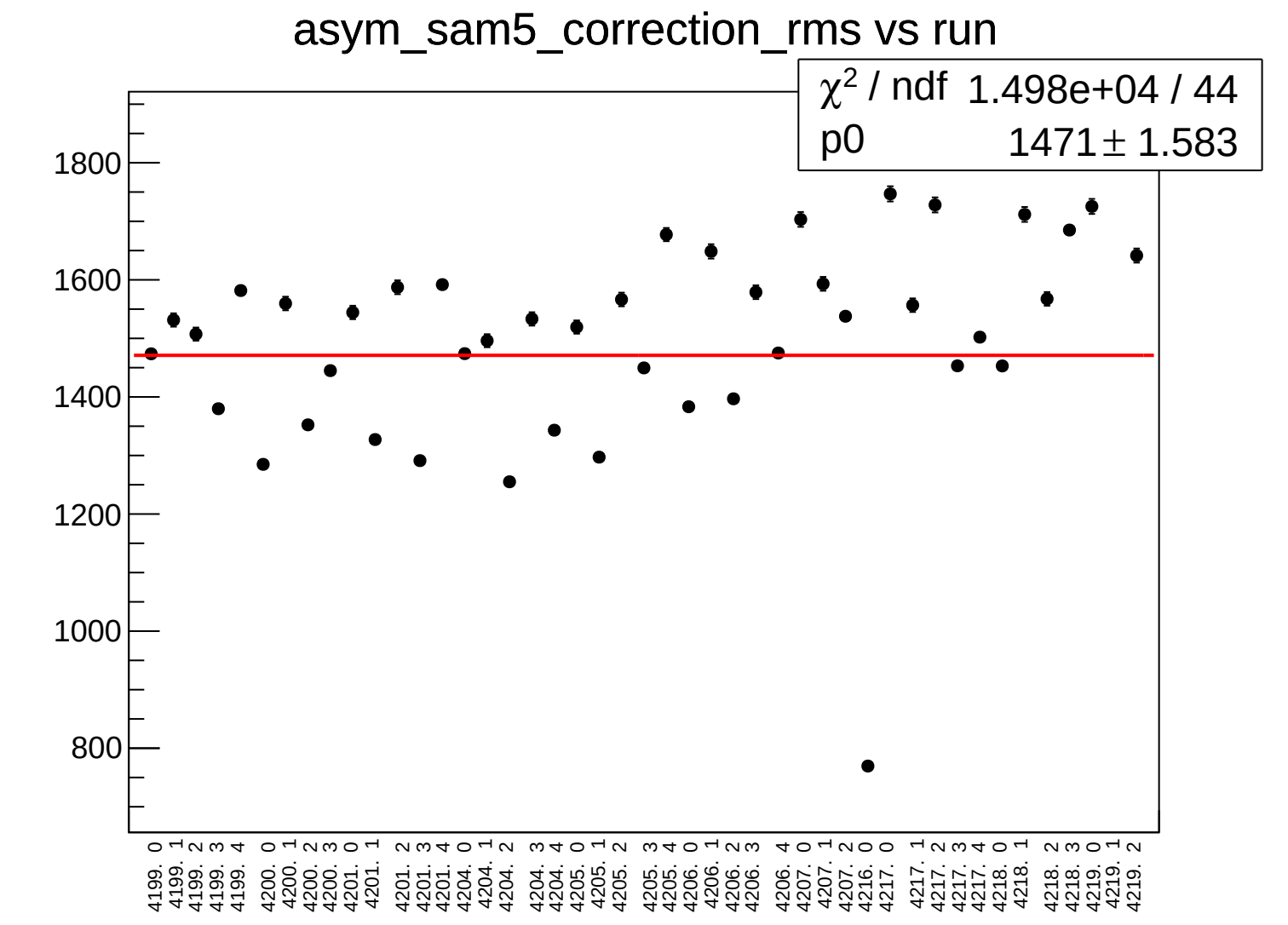

asym_sam4_correction_rms vs run
χ² / ndf 2022 / 44
p0 4565 ± 4.876
5000
4800
4600
4400
4200
4000
3800
3600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

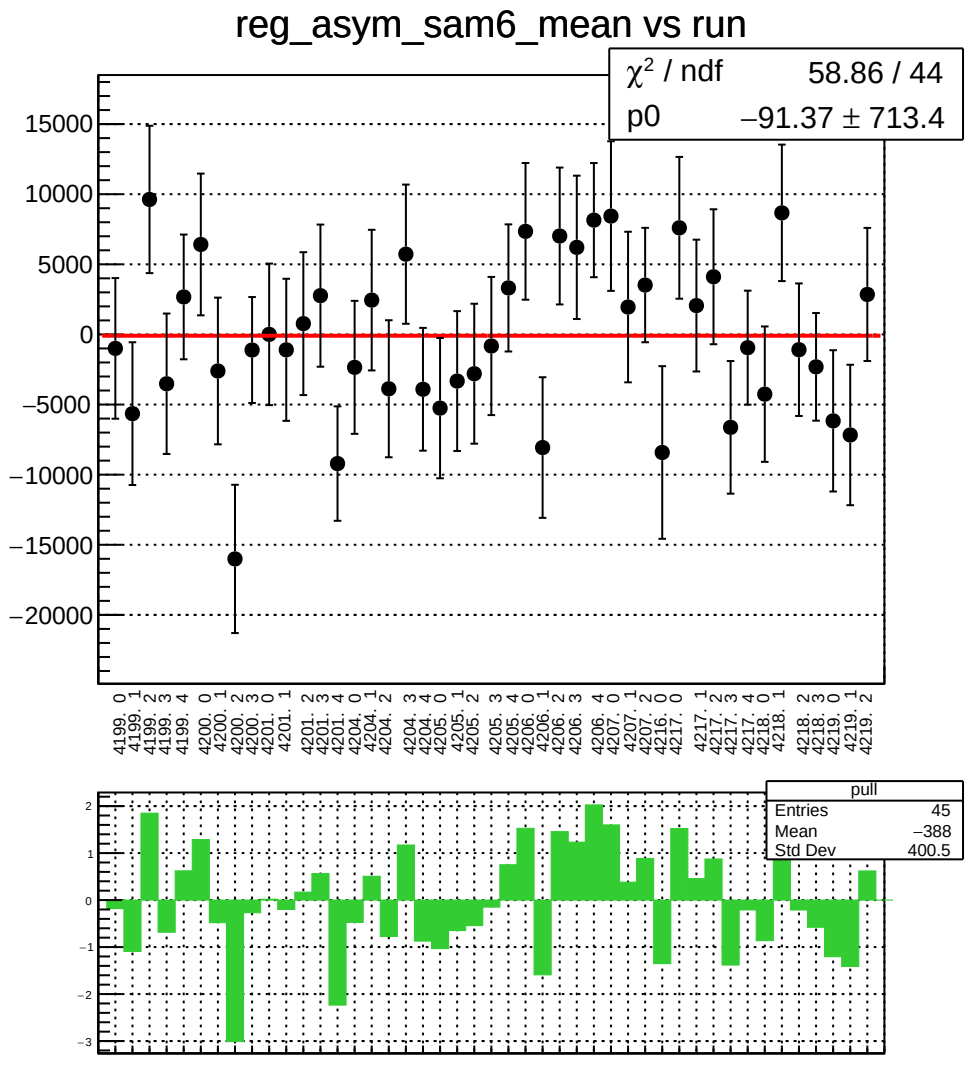

reg_asym_sam5_mean vs run
χ² / ndf 39.65 / 44
p0 −806.6 ± 495
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 108.7
Std Dev 102
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.006171
Std Dev 0.9386
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

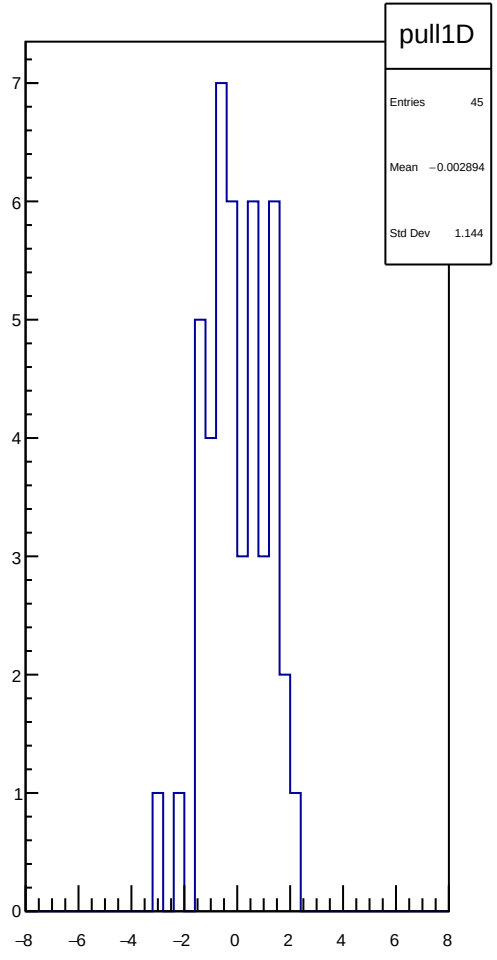

reg_asym_sam5_rms vs run
χ² / ndf 1061 / 44
p0 327.9 ± 0.35
380
370
360
350
340
330
320
310
300
290
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

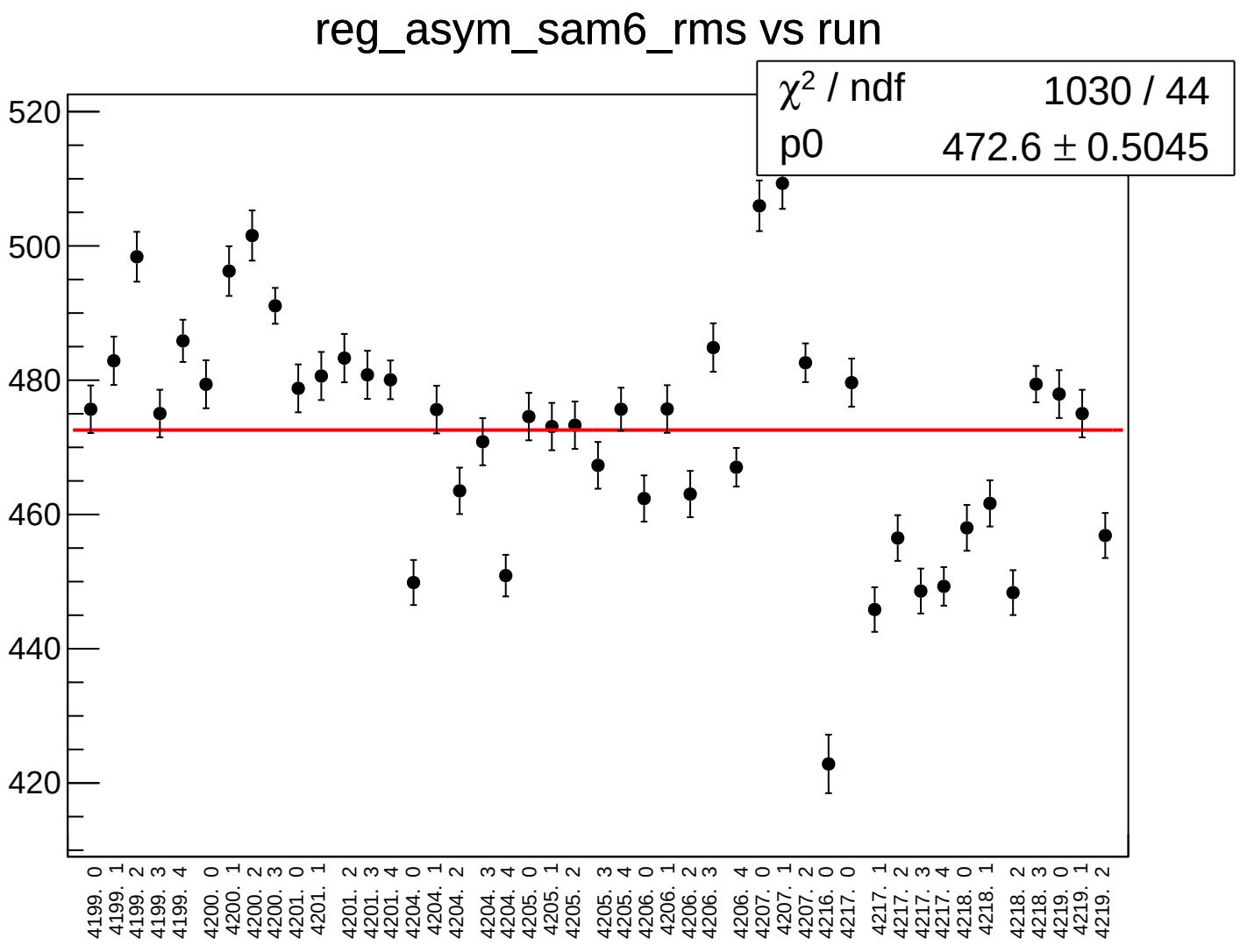

asym_sam5_correction_mean vs run
χ² / ndf 38.34 / 44
p0 2437 ± 2239
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −114
Std Dev 141.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

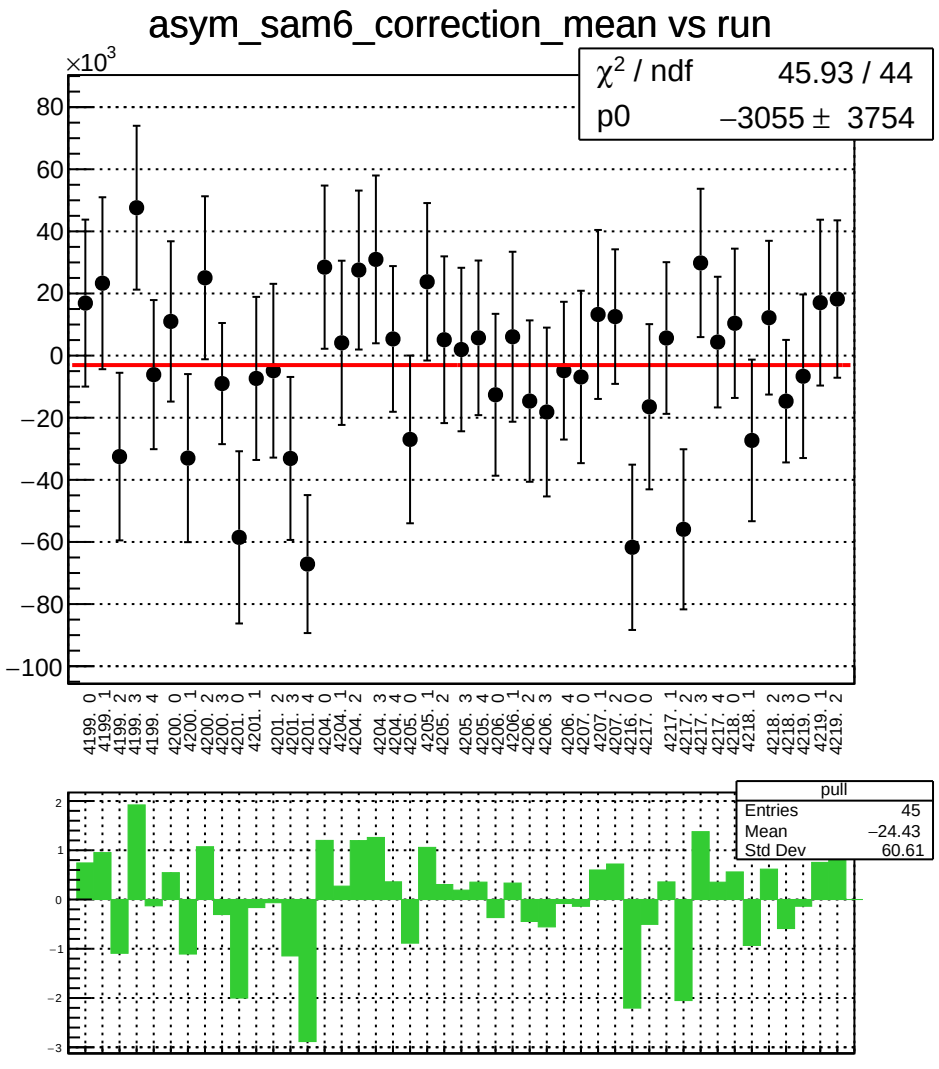

pull1D
Entries 45
Mean 0.008212
Std Dev 0.923
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

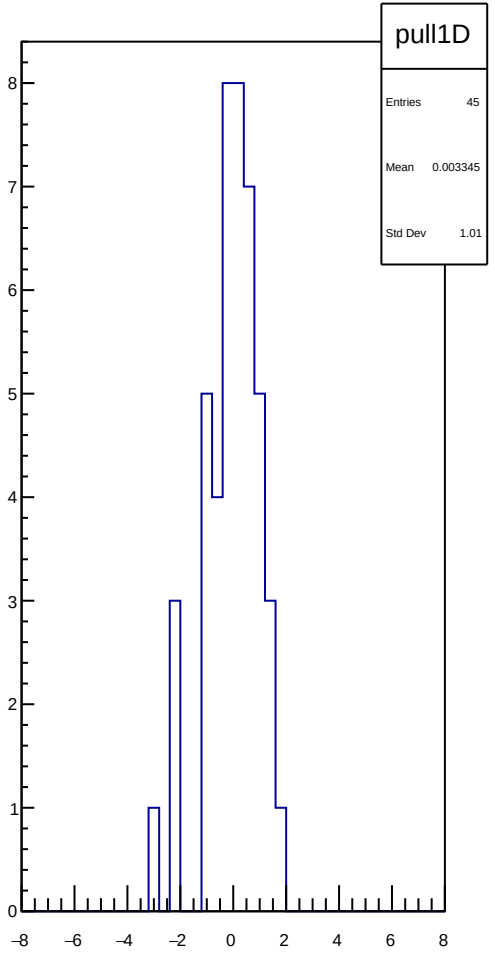

asym_sam5_correction_rms vs run
χ² / ndf 1.498e+04 / 44
p0 1471 ± 1.583
1800
1600
1400
1200
1000
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

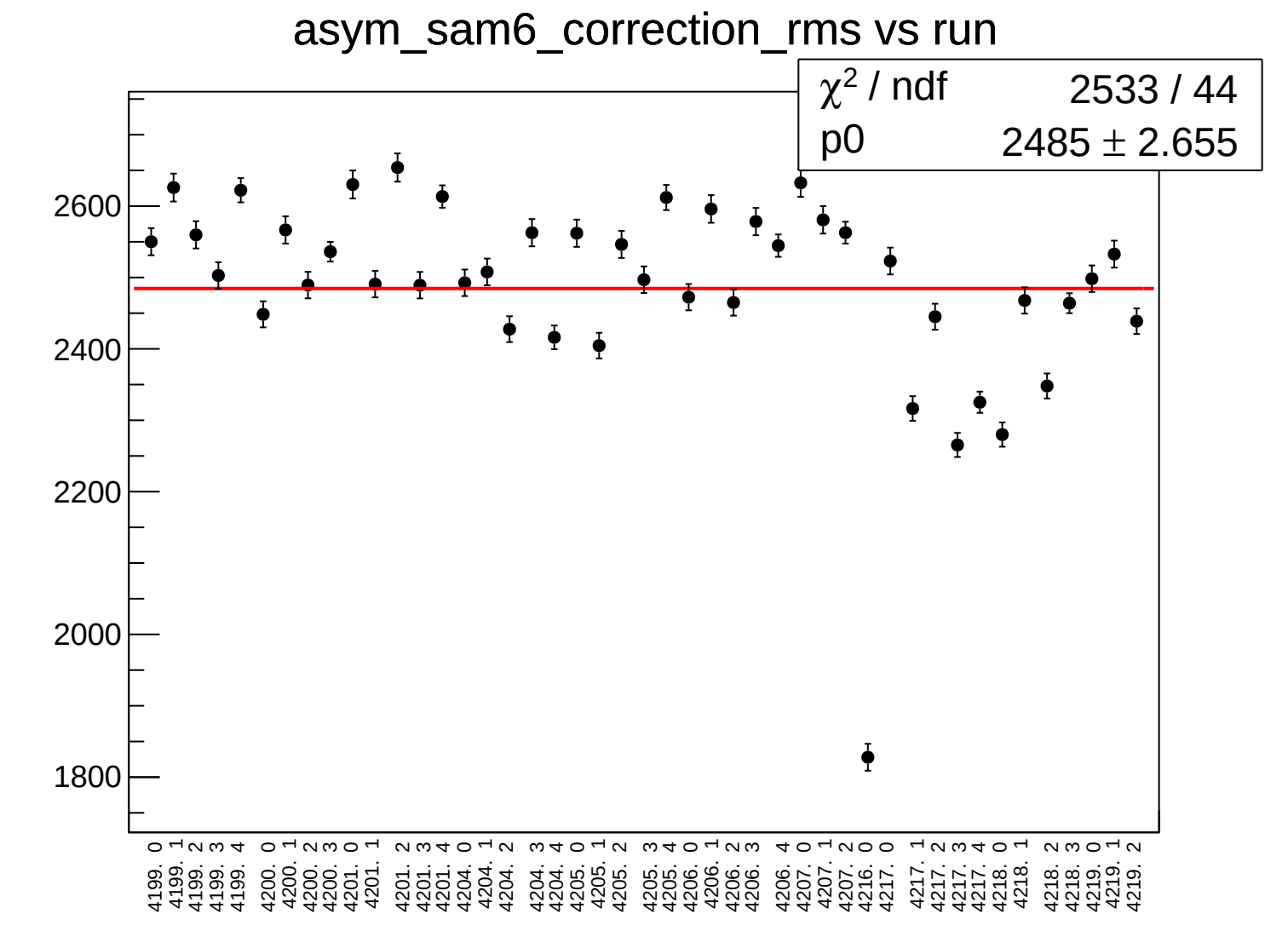

reg_asym_sam6_mean vs run
χ² / ndf 58.86 / 44
p0 −91.37 ± 713.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −388
Std Dev 400.5
2
1
0
−1
−2
−3

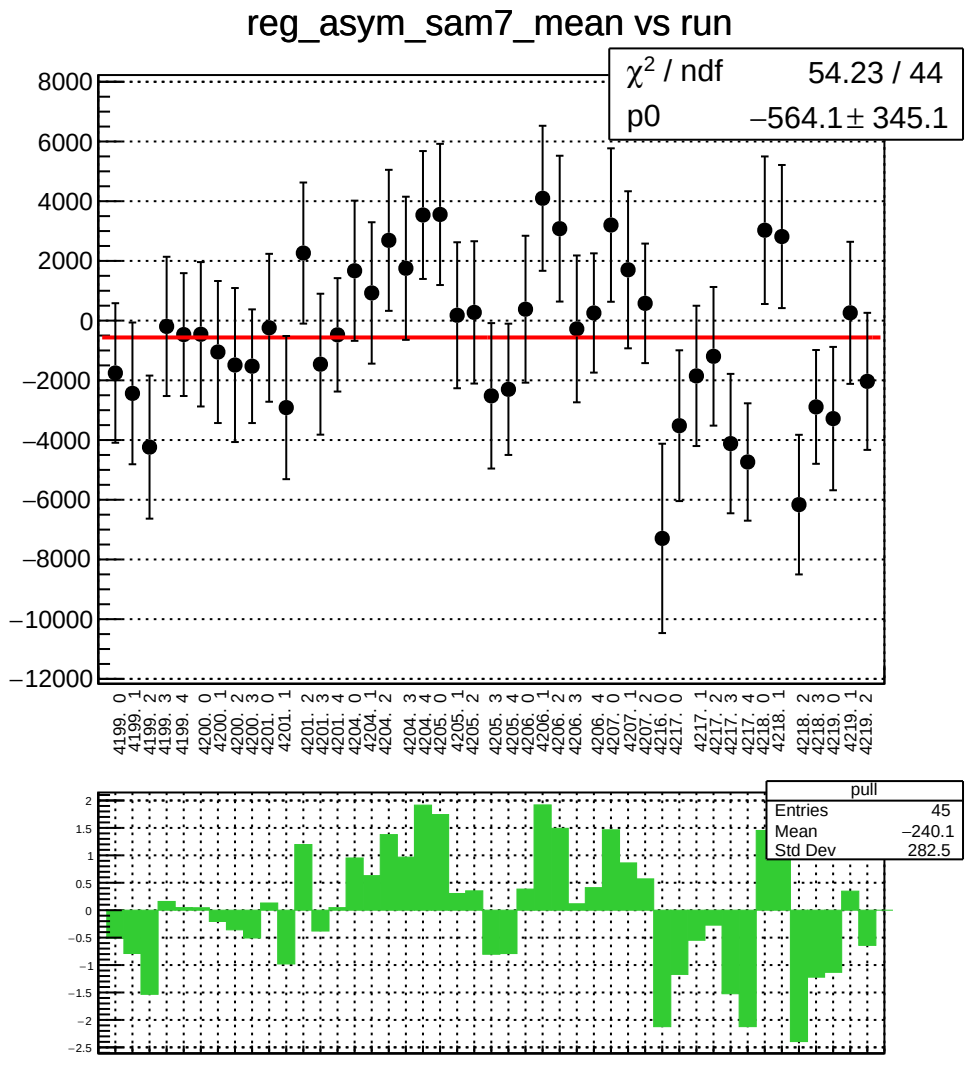

pull1D
Entries 45
Mean −0.002894
Std Dev 1.144
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

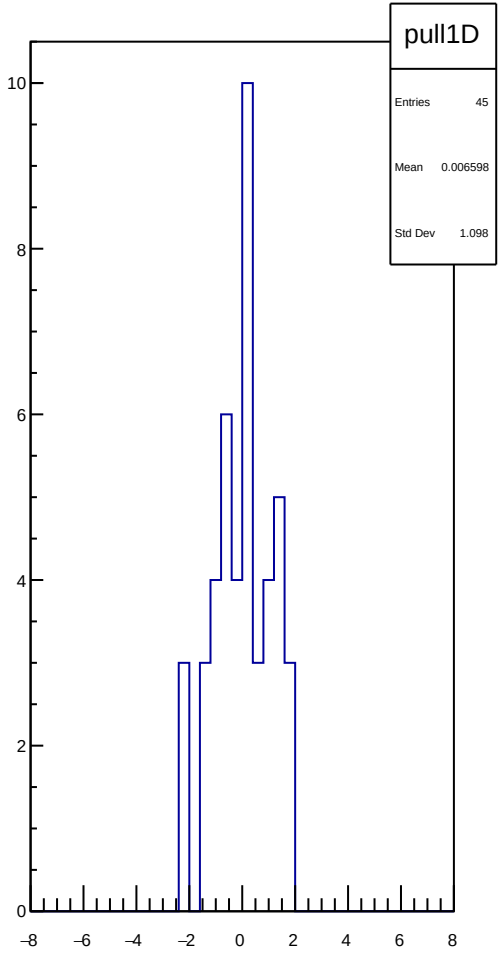

reg_asym_sam6_rms vs run
χ² / ndf 1030 / 44
p0 472.6 ± 0.5045
520
500
480
460
440
420
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

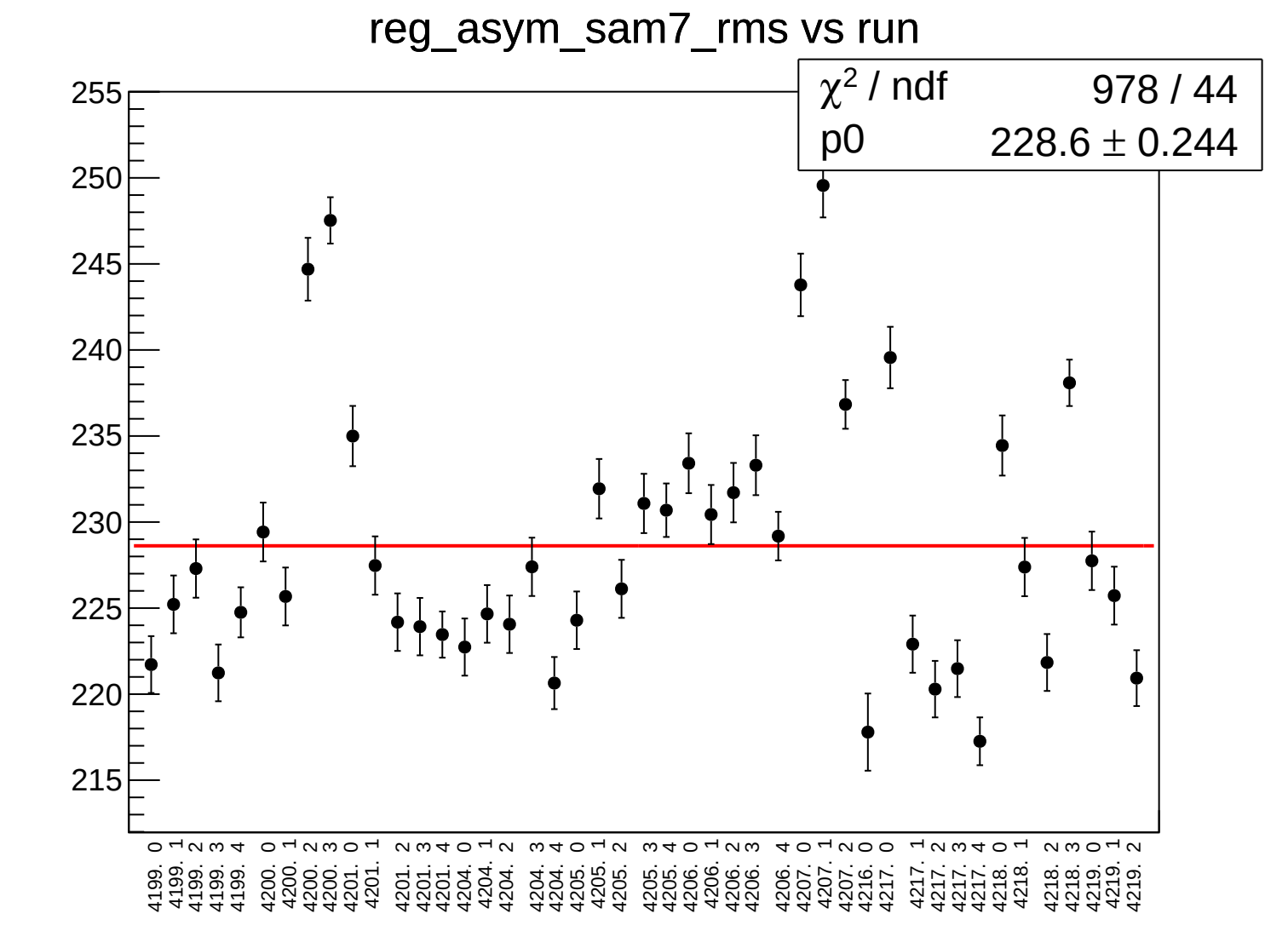

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 45.93 / 44
p0 −3055 ± 3754
pull
Entries 45
Mean −24.43
Std Dev 60.61

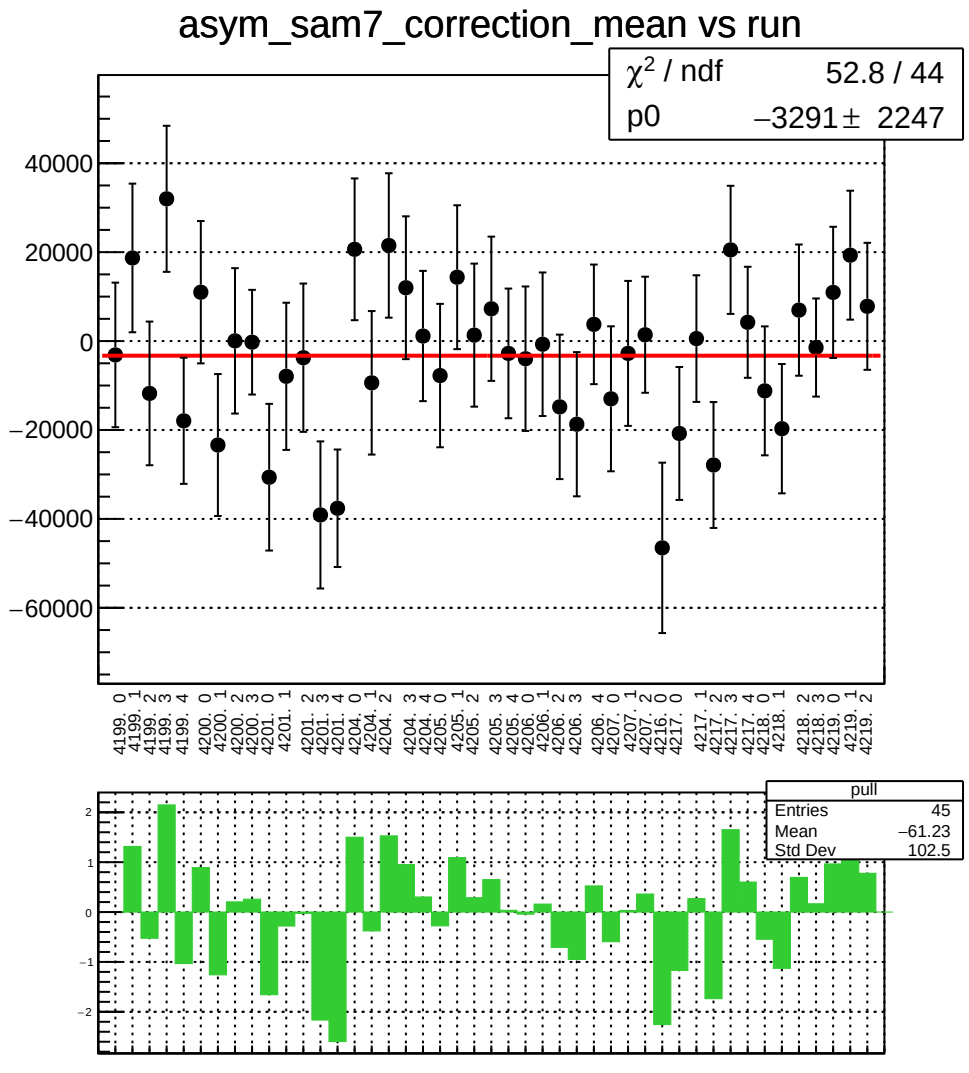

pull1D
Entries 45
Mean 0.003345
Std Dev 1.01

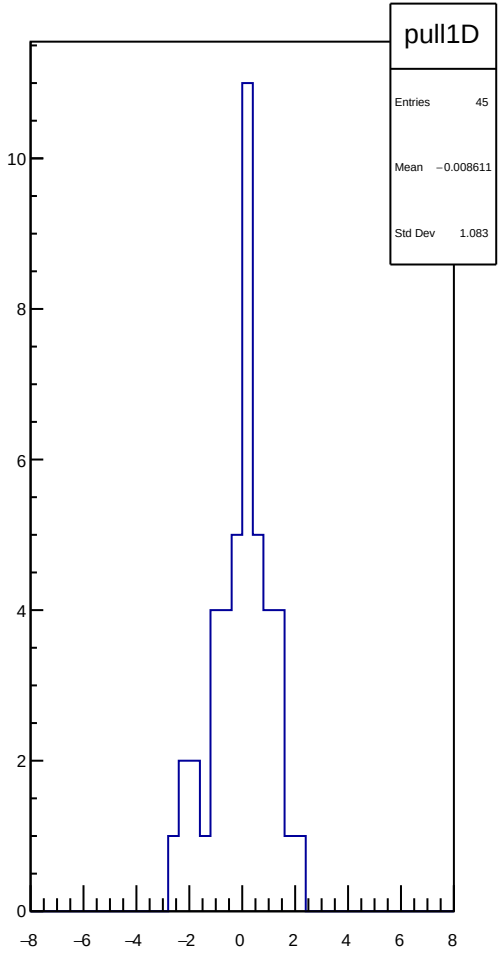

asym_sam6_correction_rms vs run
χ² / ndf 2533 / 44
p0 2485 ± 2.655
2600
2400
2200
2000
1800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

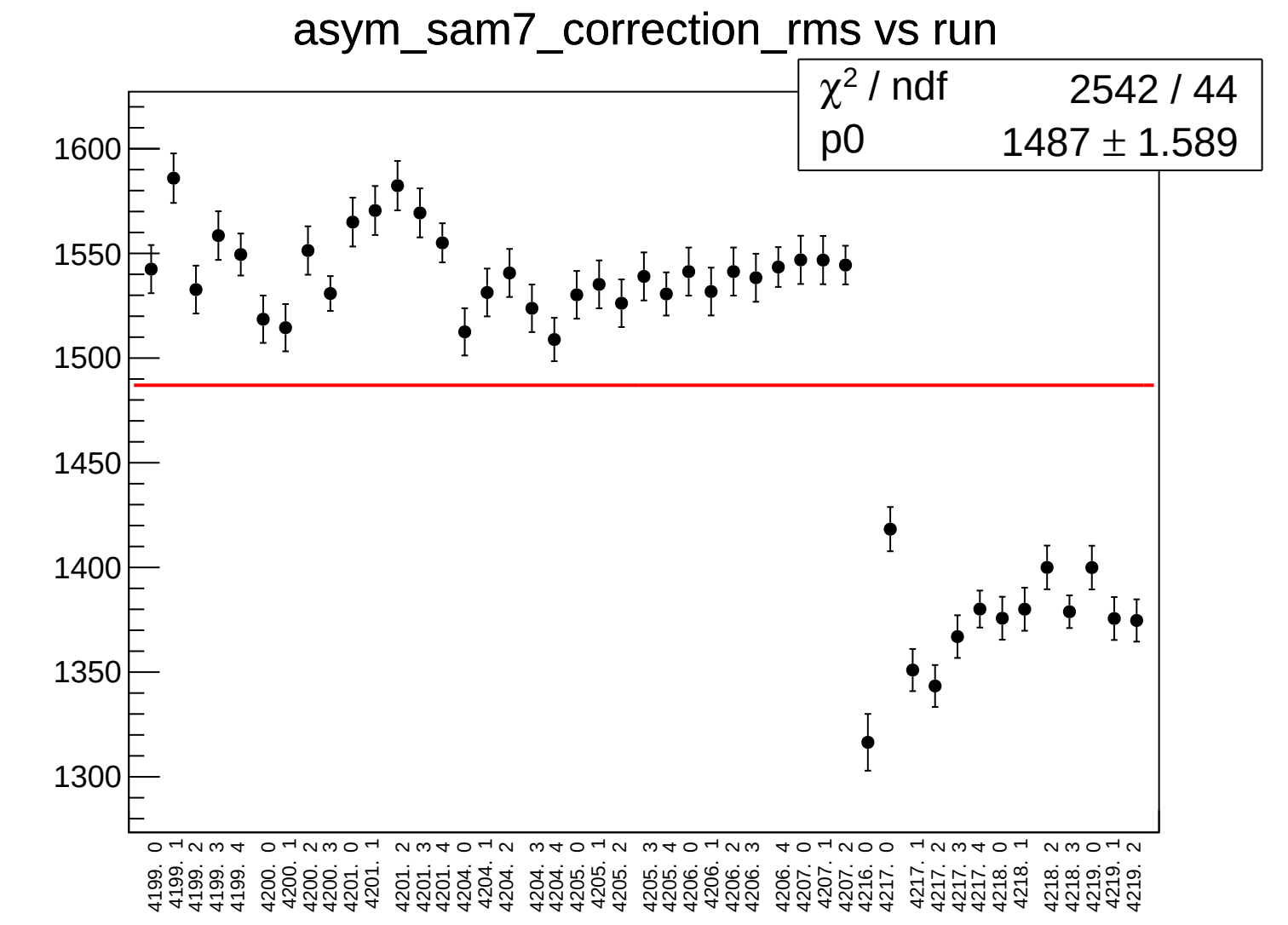

reg_asym_sam7_mean vs run
χ² / ndf 54.23 / 44
p0 −564.1 ± 345.1
pull
Entries 45
Mean −240.1
Std Dev 282.5

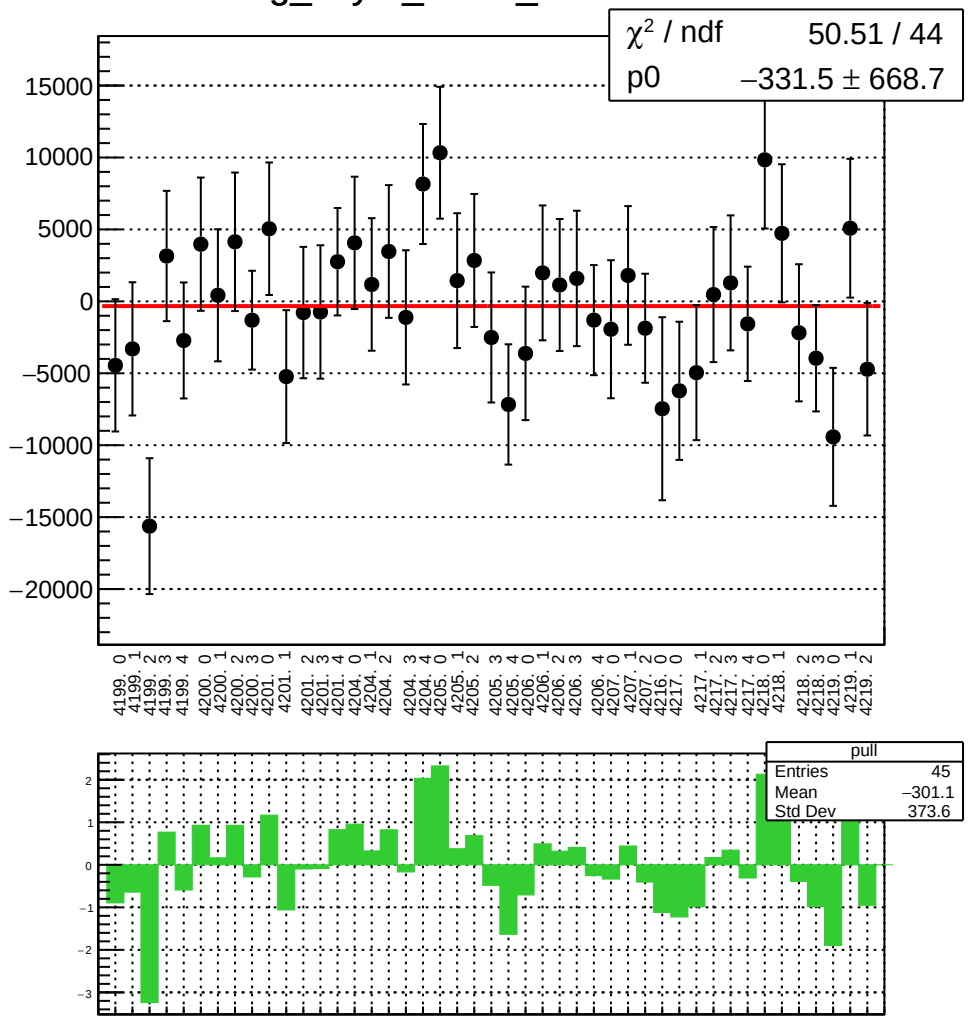

pull1D
Entries 45
Mean 0.006598
Std Dev 1.098

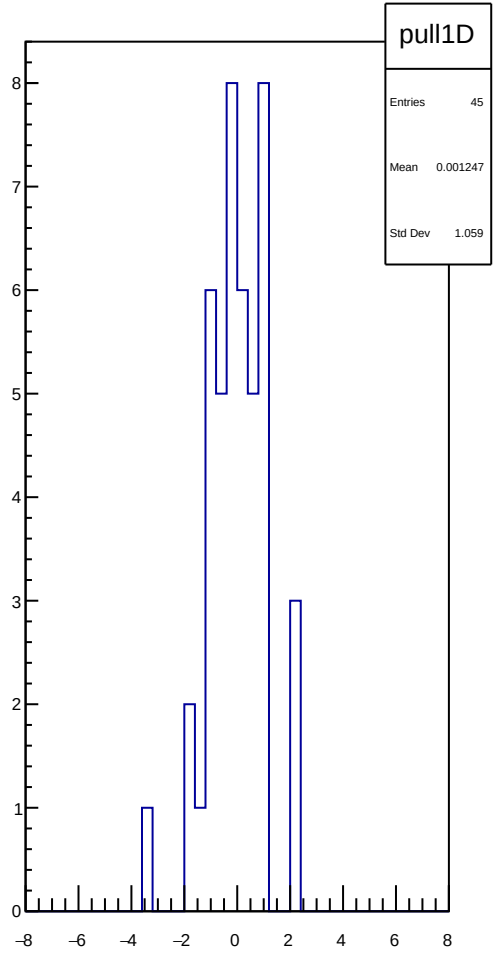

reg_asym_sam7_rms vs run
χ² / ndf 978 / 44
p0 228.6 ± 0.244
255
250
245
240
235
230
225
220
215
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

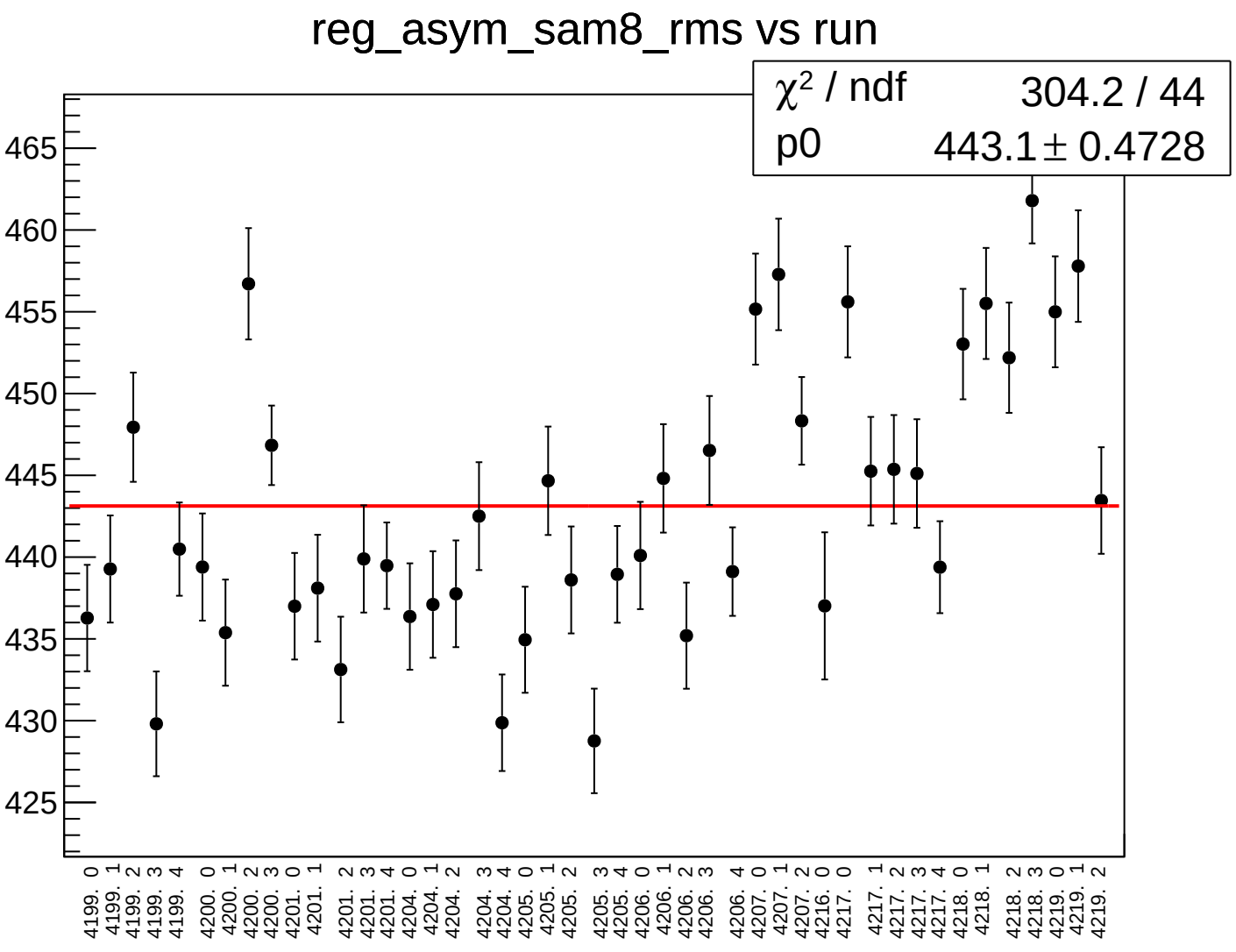

asym_sam7_correction_mean vs run
χ² / ndf 52.8 / 44
p0 −3291 ± 2247
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −61.23
Std Dev 102.5
2
1
0
−1
−2

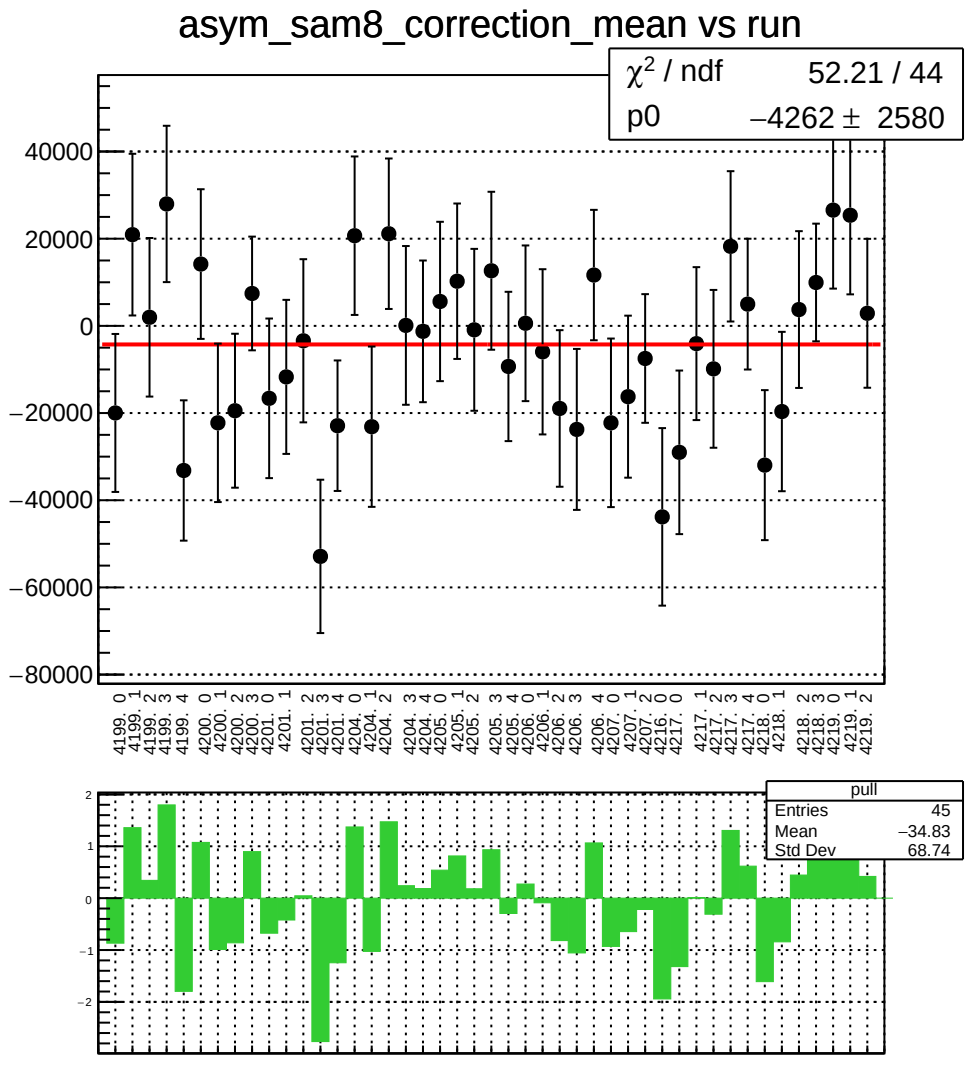

pull1D
Entries 45
Mean −0.008611
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

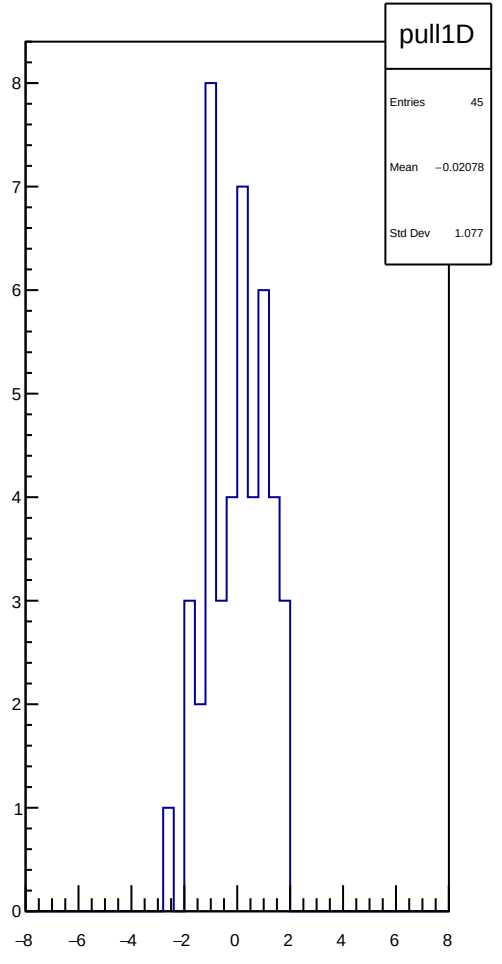

asym_sam7_correction_rms vs run
χ² / ndf 2542 / 44
p0 1487 ± 1.589
1600
1550
1500
1450
1400
1350
1300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

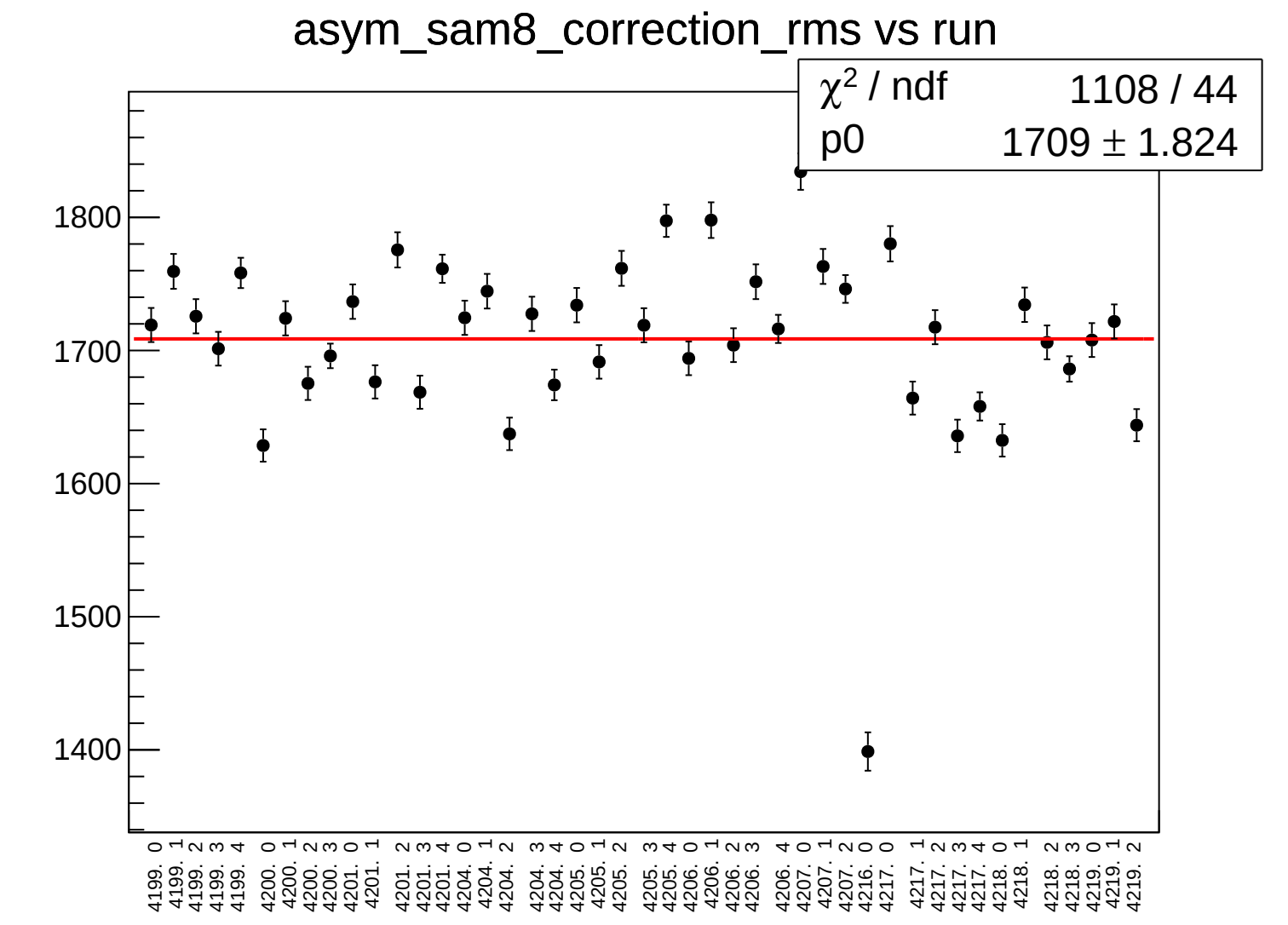

reg_asym_sam8_mean vs run
χ² / ndf 50.51 / 44
p0 −331.5 ± 668.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −301.1
Std Dev 373.6
2
1
0
−1
−2
−3

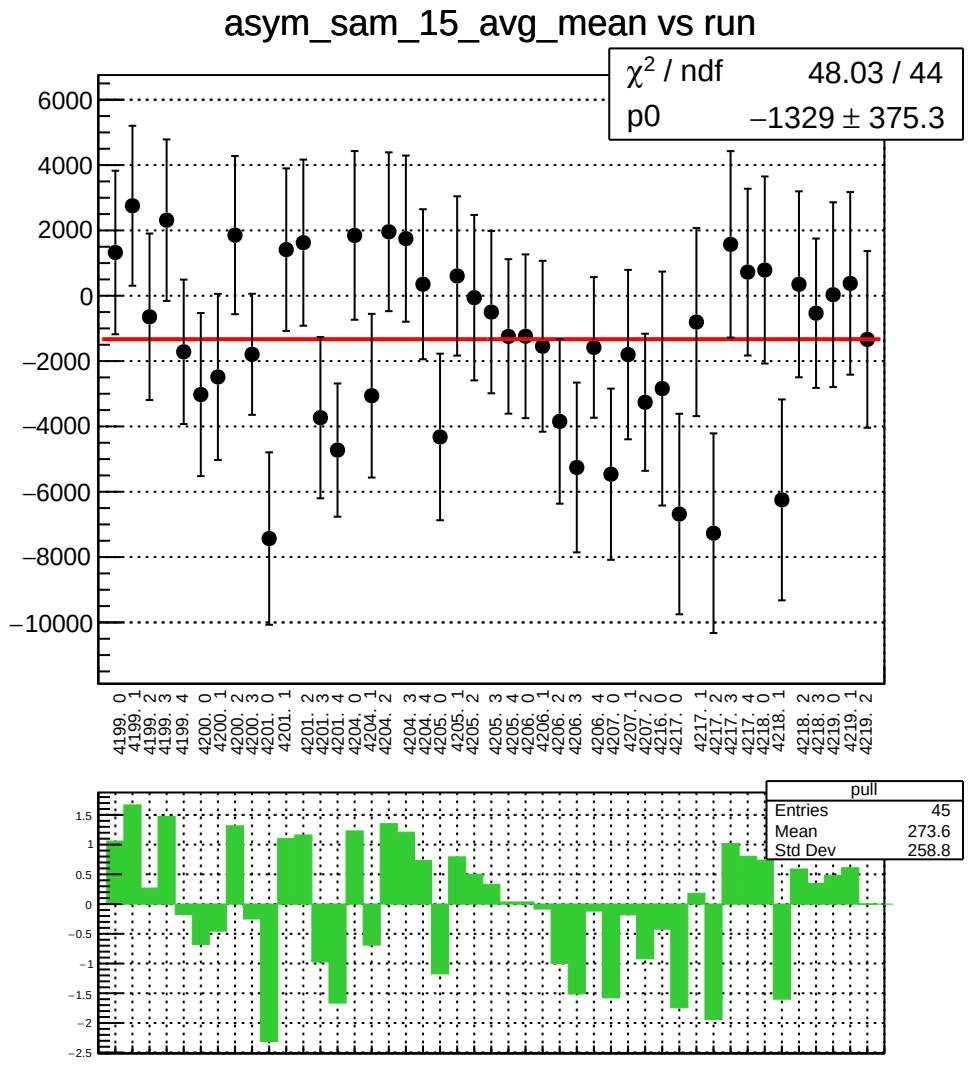

pull1D
Entries 45
Mean 0.001247
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

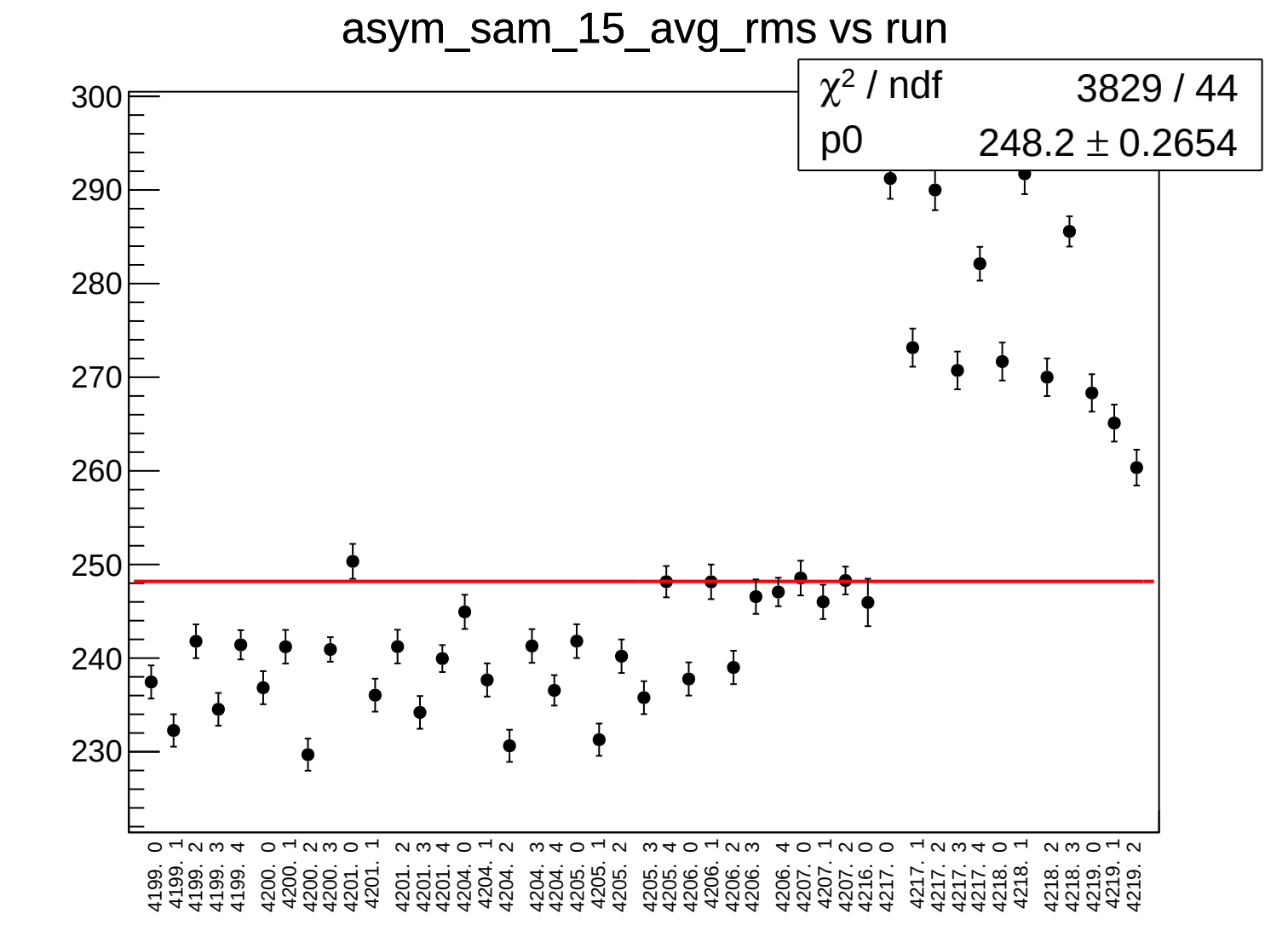

reg_asym_sam8_rms vs run
χ² / ndf 304.2 / 44
p0 443.1 ± 0.4728
465
460
455
450
445
440
435
430
425
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

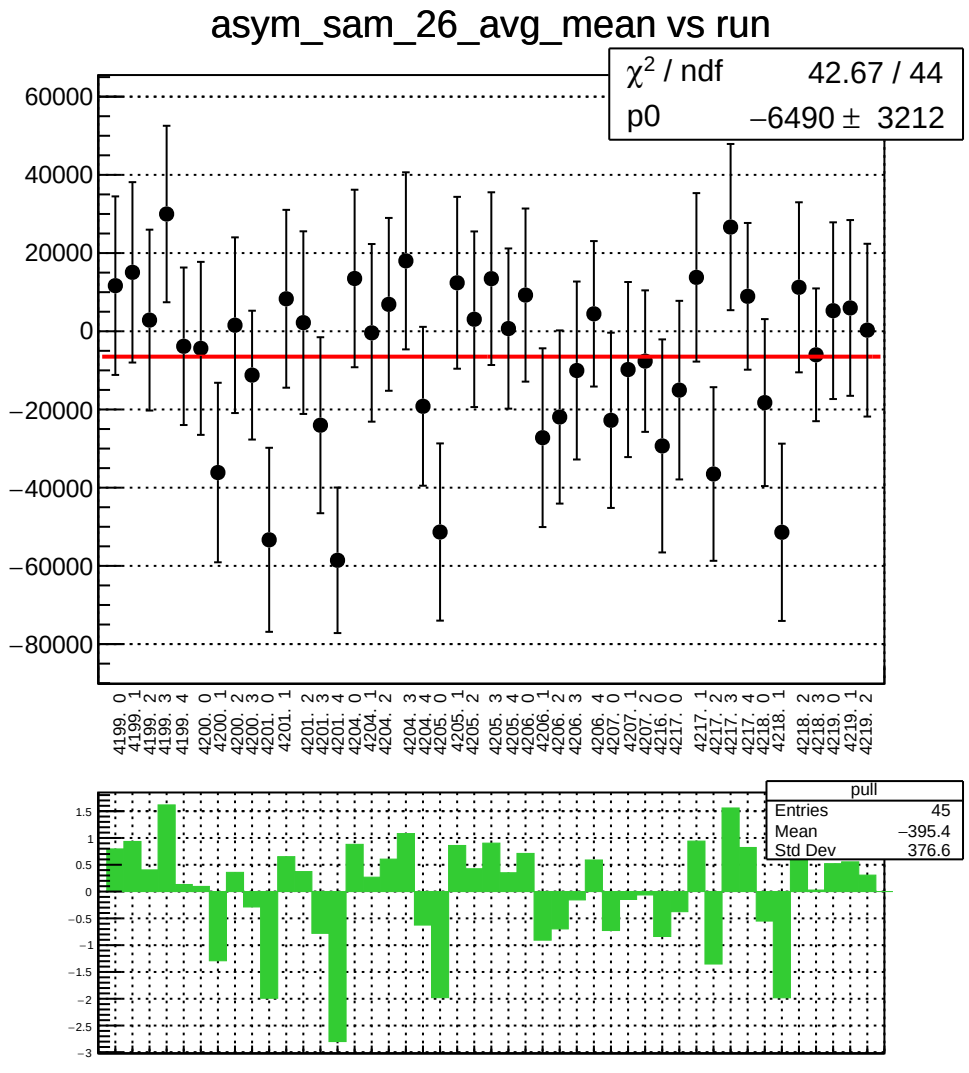

asym_sam8_correction_mean vs run
χ² / ndf 52.21 / 44
p0 −4262 ± 2580
40000
20000
0
−20000
−40000
−60000
−80000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −34.83
Std Dev 68.74
2
1
0
−1
−2

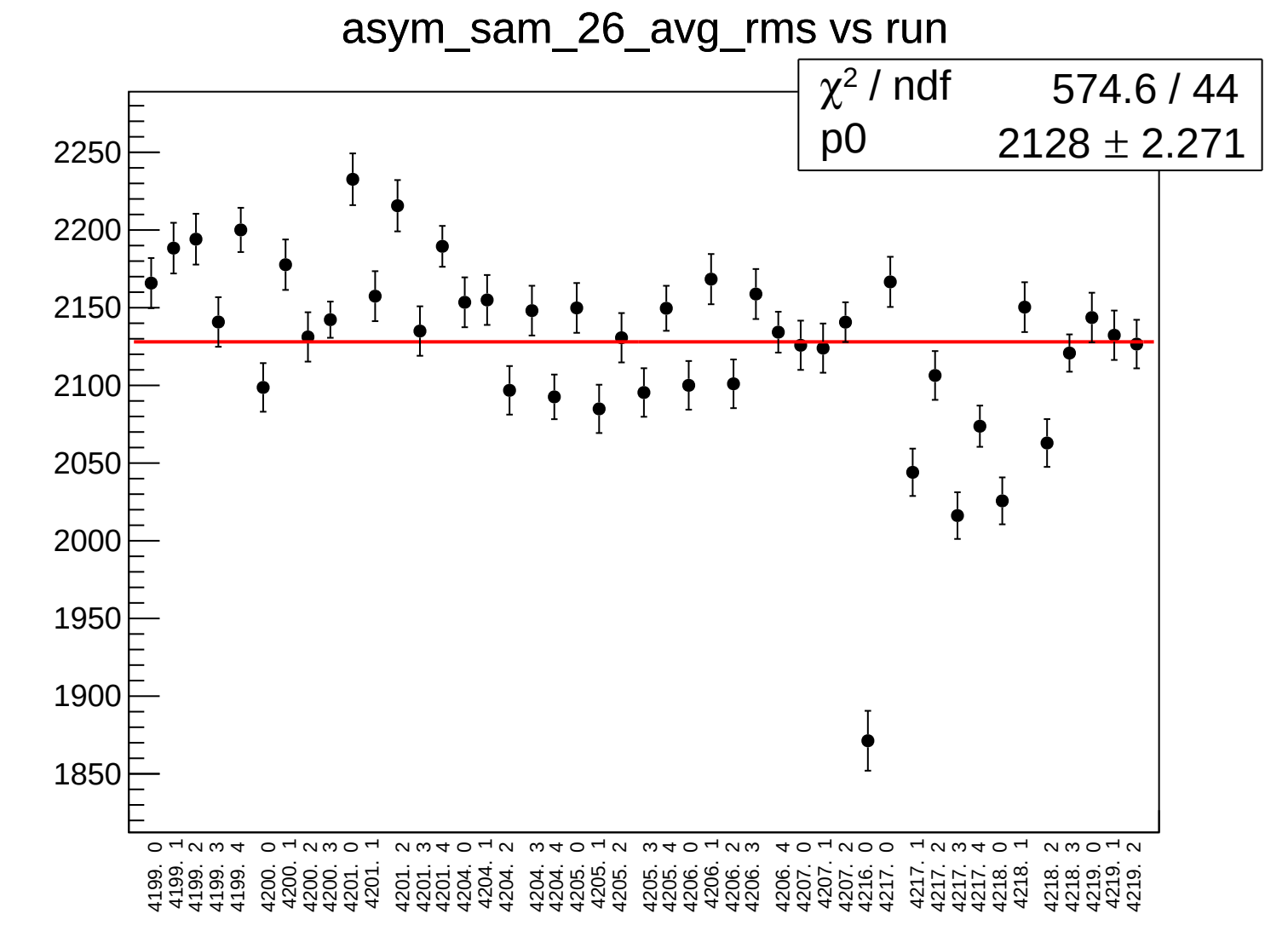

pull1D
Entries 45
Mean −0.02078
Std Dev 1.077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

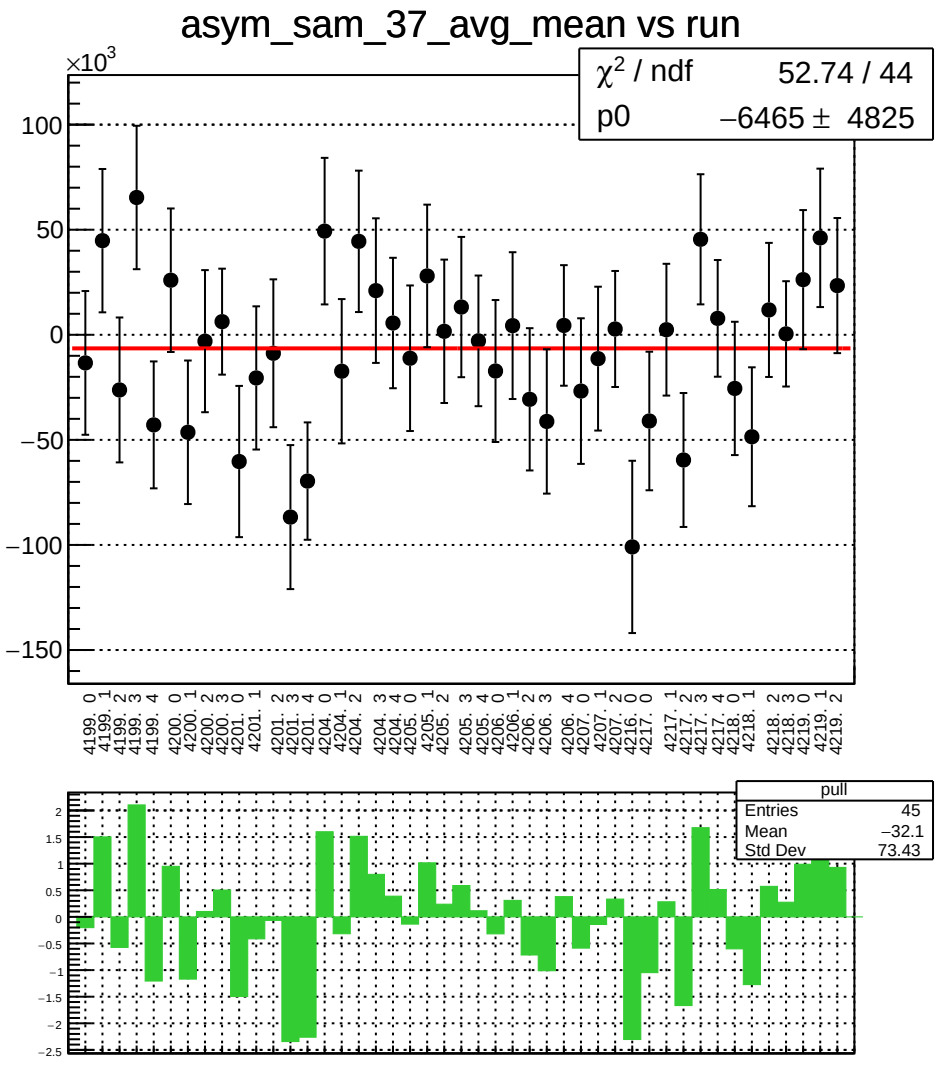

asym_sam8_correction_rms vs run
χ² / ndf 1108 / 44
p0 1709 ± 1.824
1800
1700
1600
1500
1400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

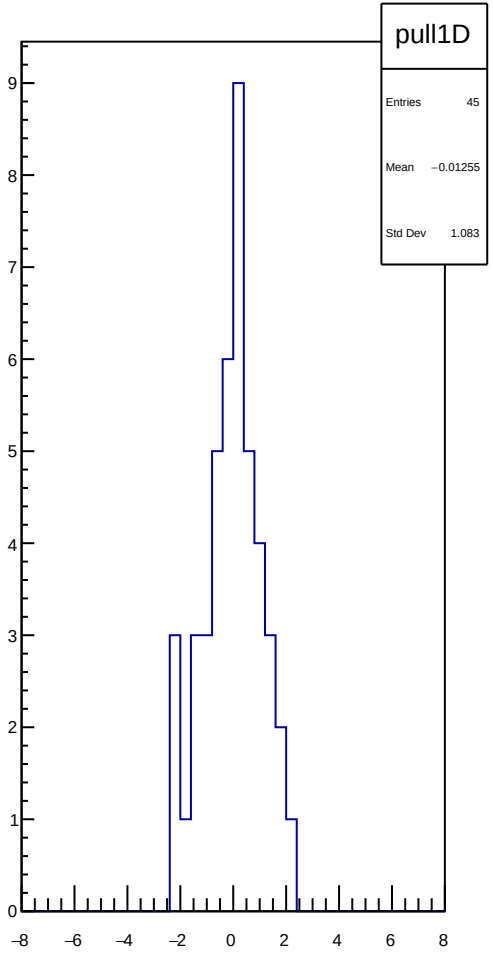

asym_sam_15_avg_mean vs run
χ² / ndf 48.03 / 44
p0 −1329 ± 375.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 273.6
Std Dev 258.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.009469
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

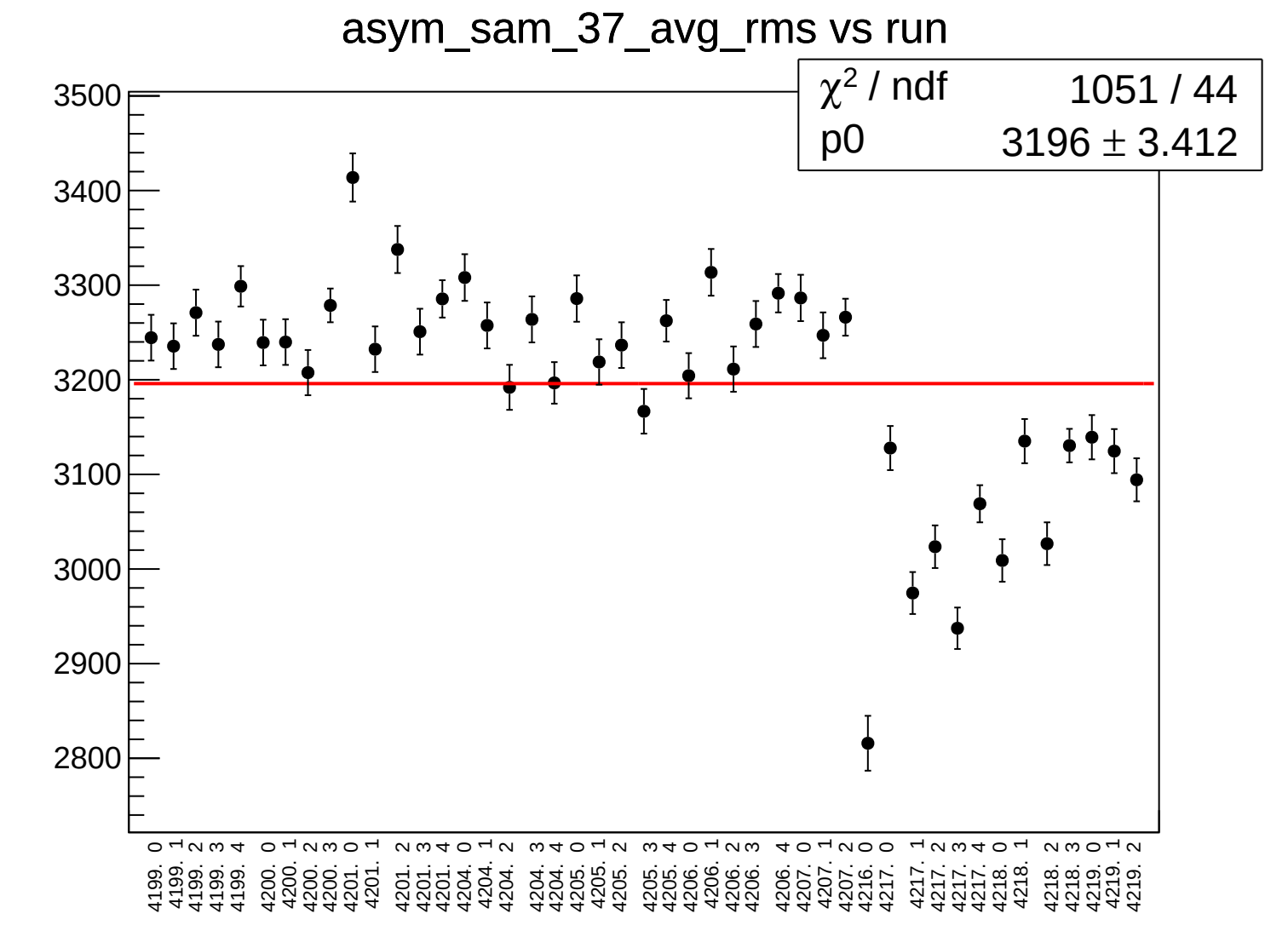

asym_sam_15_avg_rms vs run
χ² / ndf 3829 / 44
p0 248.2 ± 0.2654
300
290
280
270
260
250
240
230
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

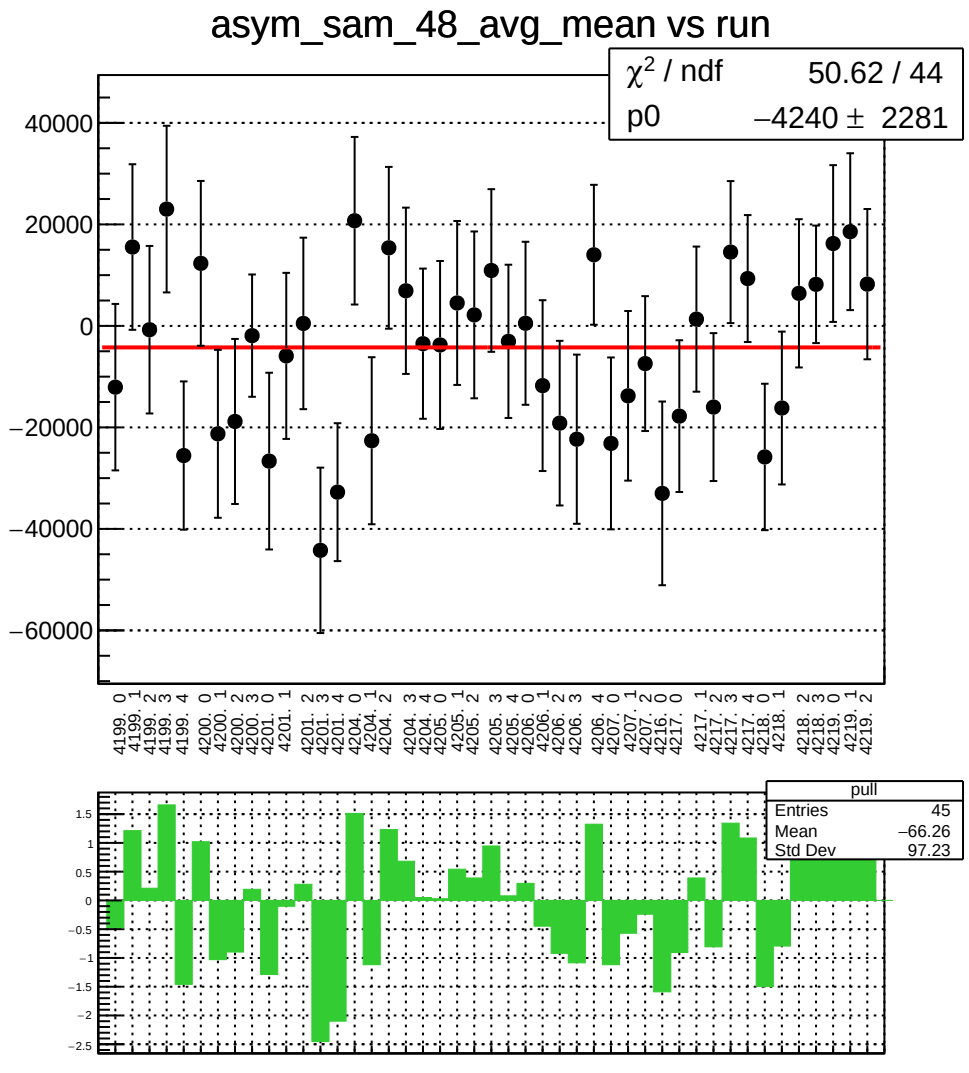

asym_sam_26_avg_mean vs run
χ² / ndf 42.67 / 44
p0 −6490 ± 3212
60000
40000
20000
0
−20000
−40000
−60000
−80000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −395.4
Std Dev 376.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean 0.0008652
Std Dev 0.9738
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

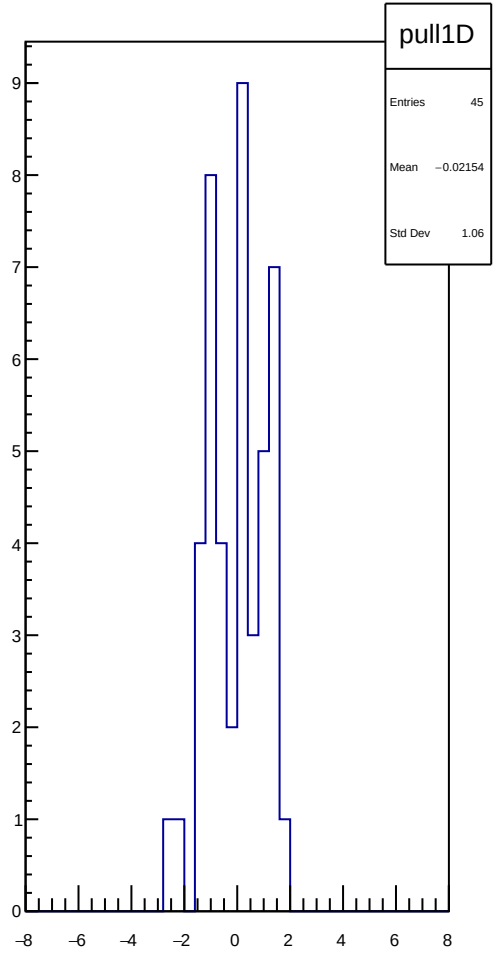

asym_sam_26_avg_rms vs run
χ² / ndf 574.6 / 44
p0 2128 ± 2.271
2250
2200
2150
2100
2050
2000
1950
1900
1850
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

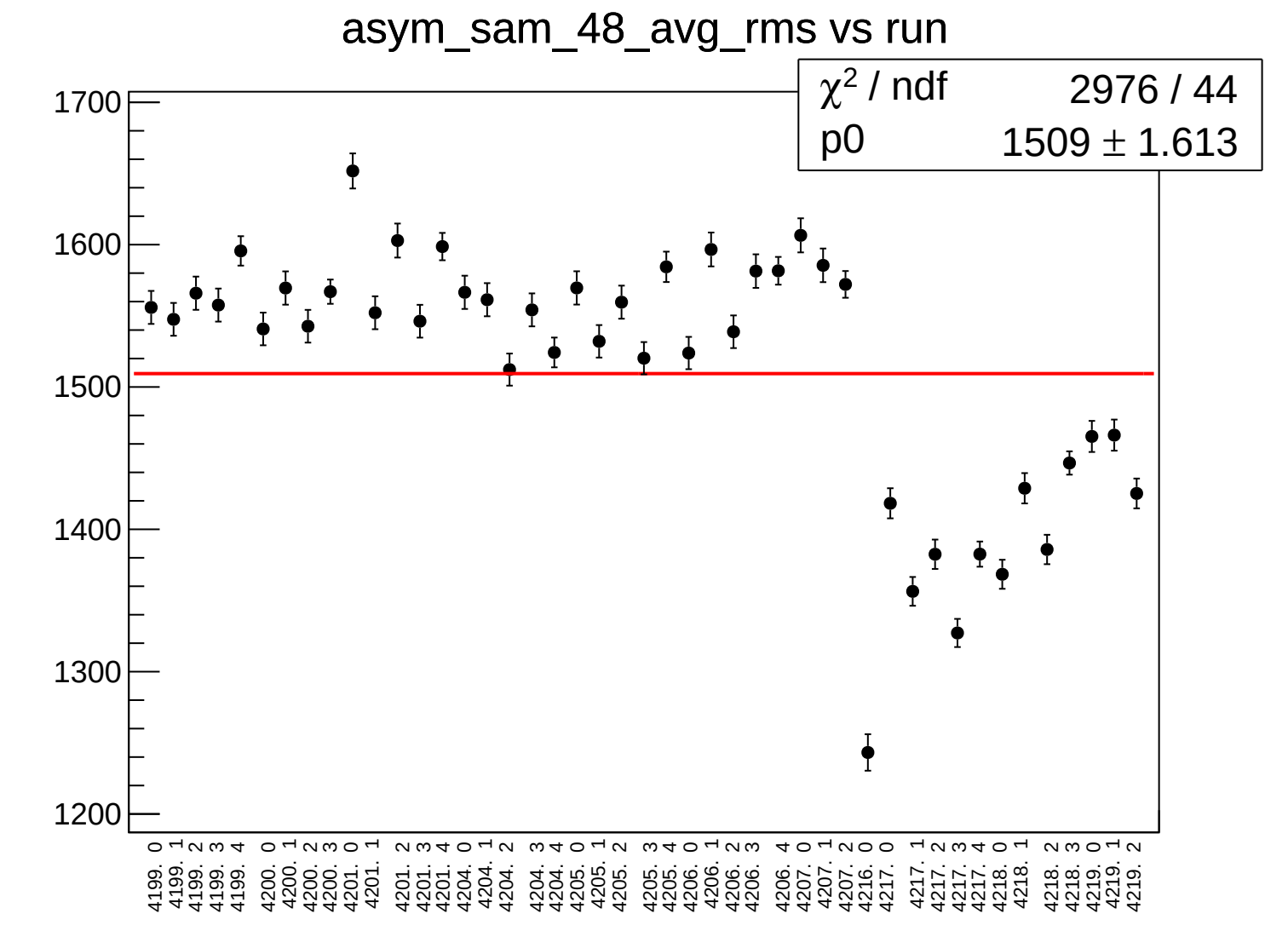

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 52.74 / 44
p0 −6465 ± 4825
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −32.1
Std Dev 73.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

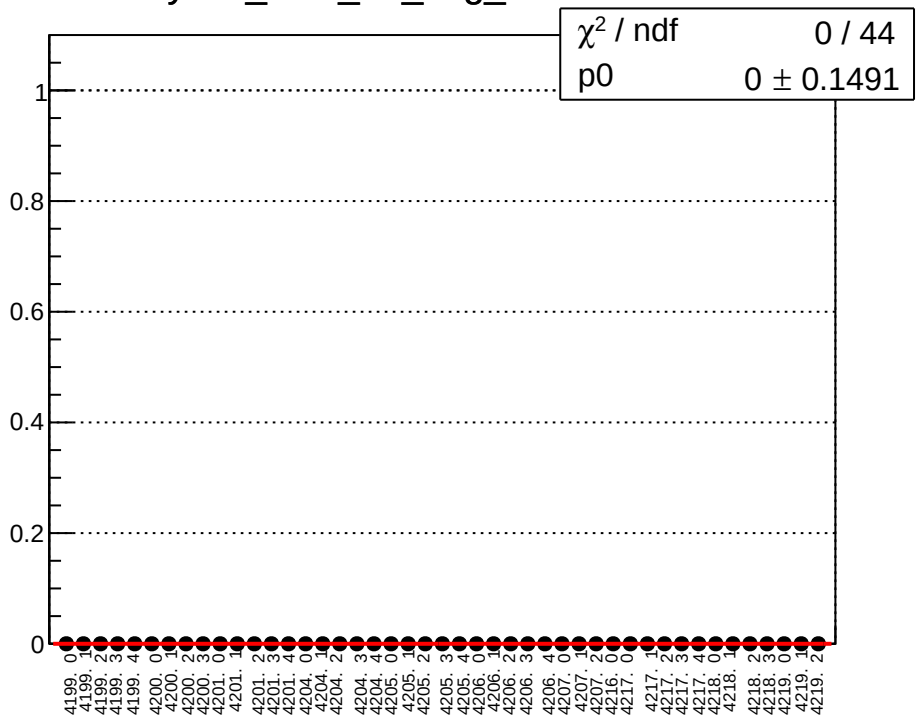

pull1D
Entries 45
Mean −0.01255
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

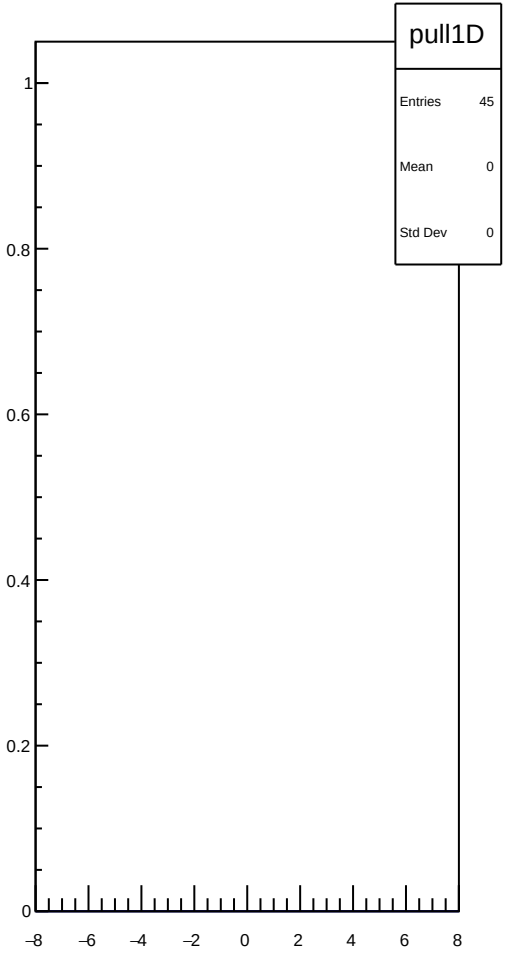

asym_sam_37_avg_rms vs run
χ^2 / ndf 1051 / 44
p0 3196 ± 3.412
3500
3400
3300
3200
3100
3000
2900
2800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

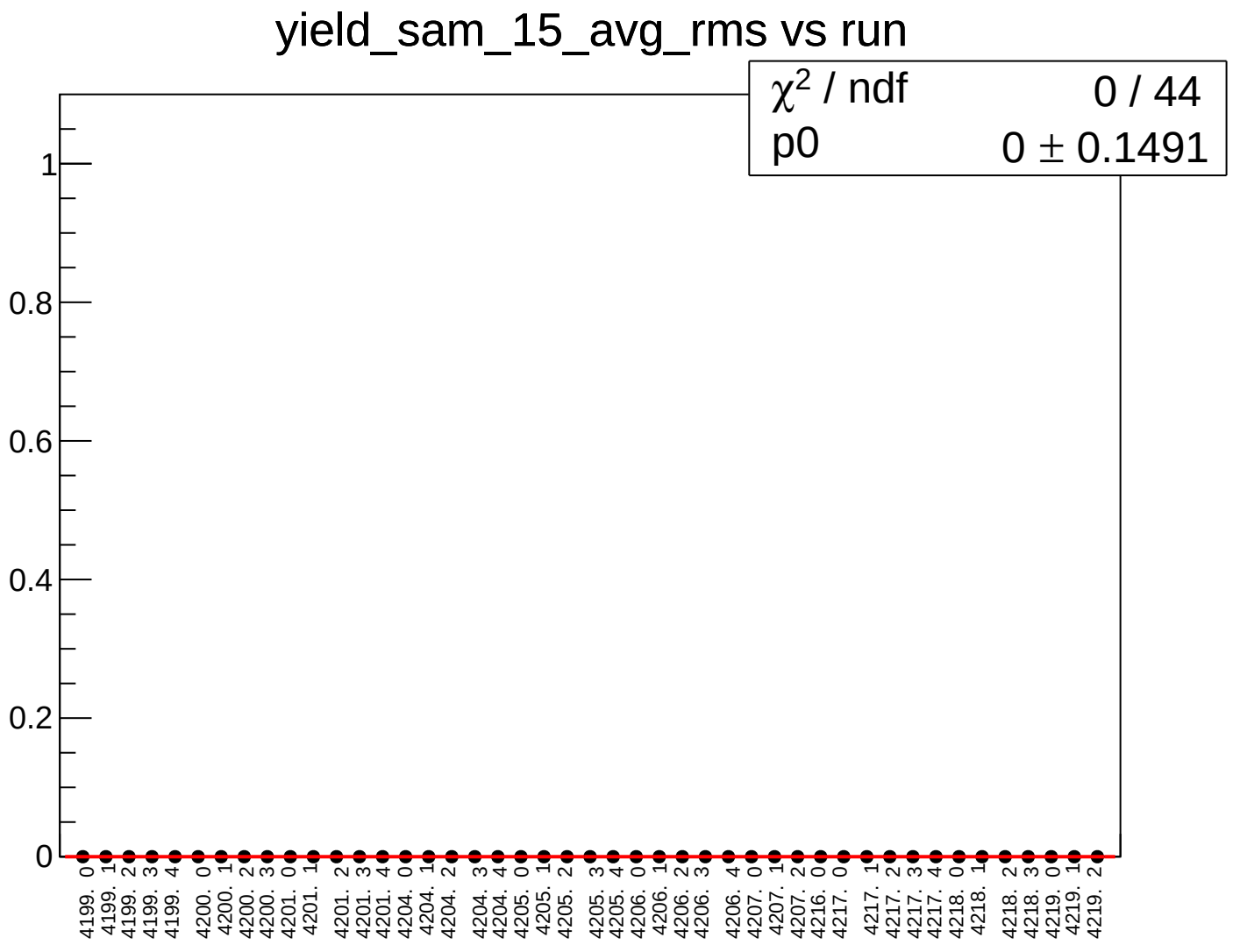

asym_sam_48_avg_mean vs run
χ² / ndf 50.62 / 44
p0 −4240 ± 2281
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −66.26
Std Dev 97.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

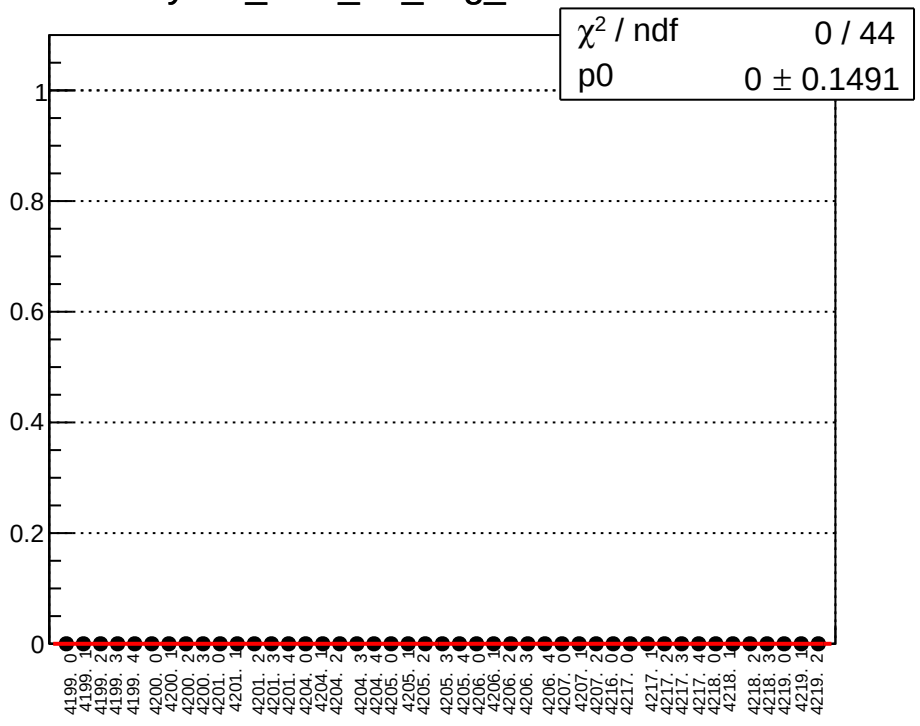

pull1D
Entries 45
Mean −0.02154
Std Dev 1.06
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

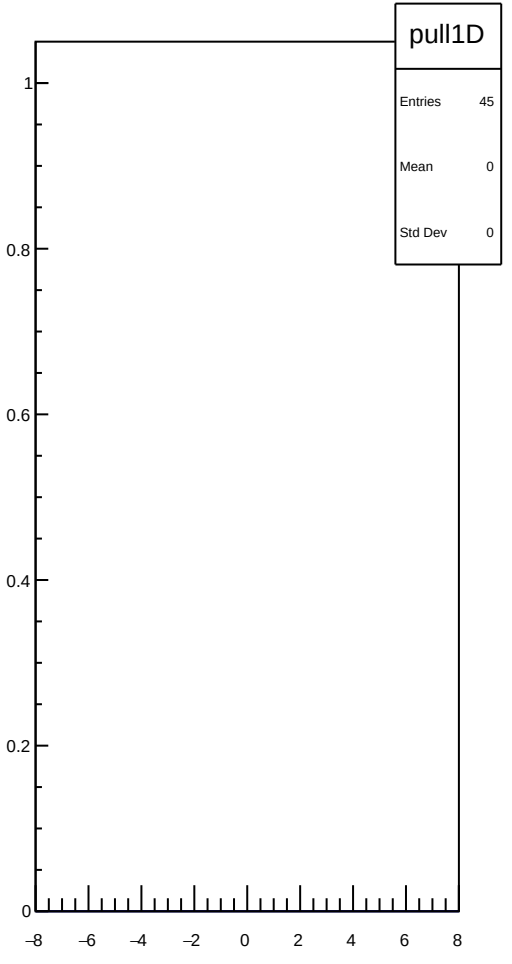

asym_sam_48_avg_rms vs run
χ² / ndf 2976 / 44
p0 1509 ± 1.613
1700
1600
1500
1400
1300
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

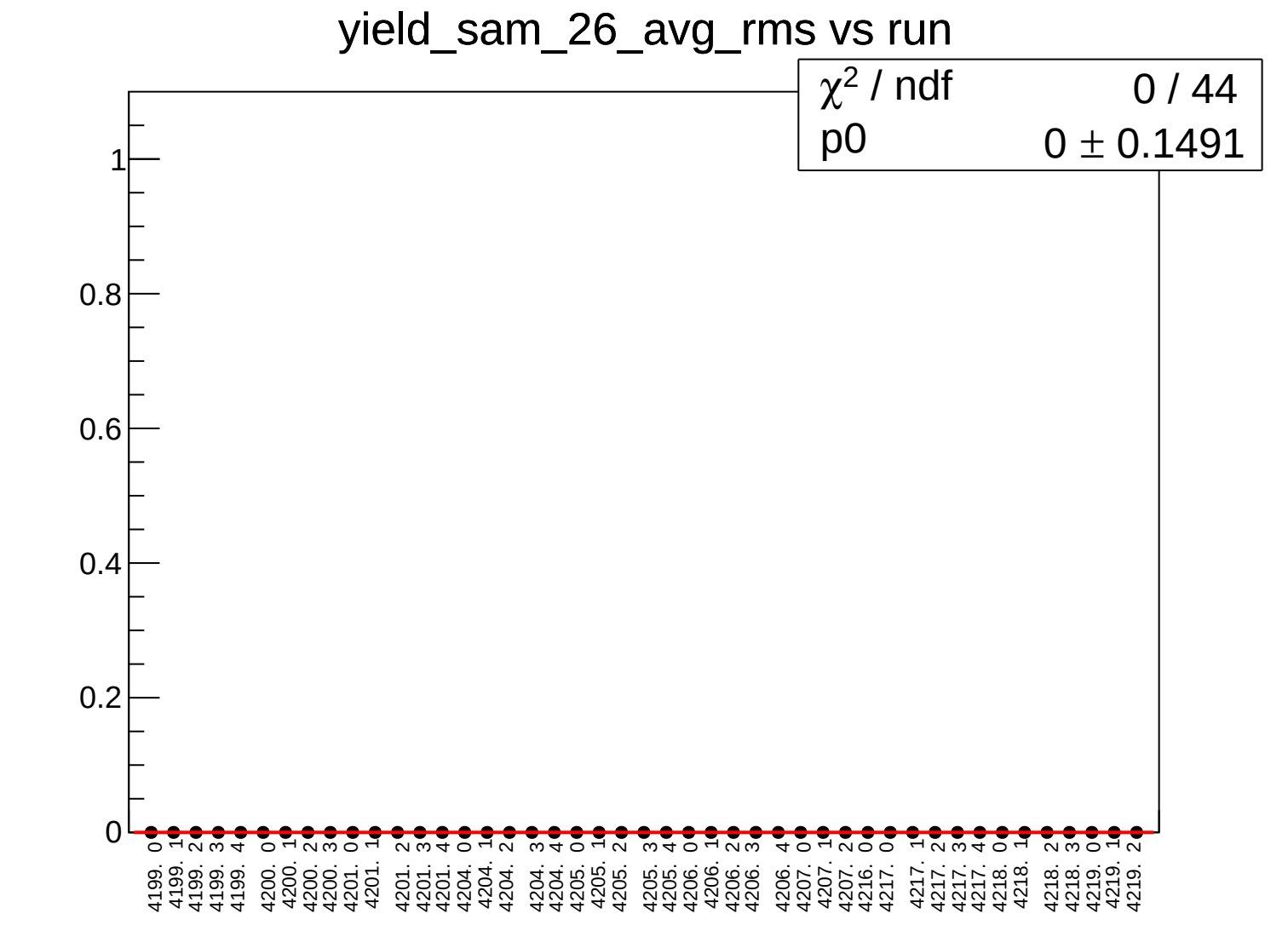

yield_sam_15_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

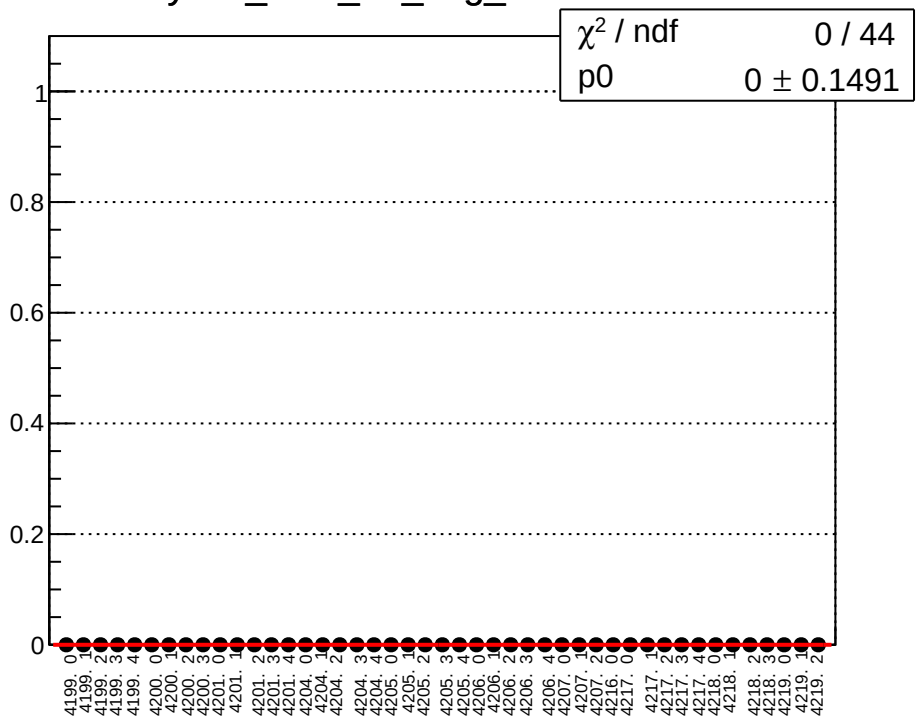

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

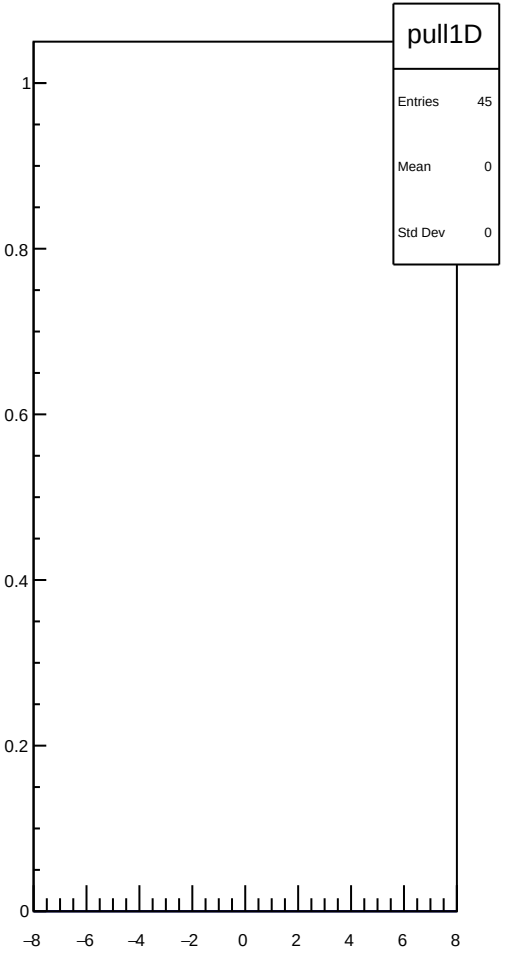

yield_sam_15_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

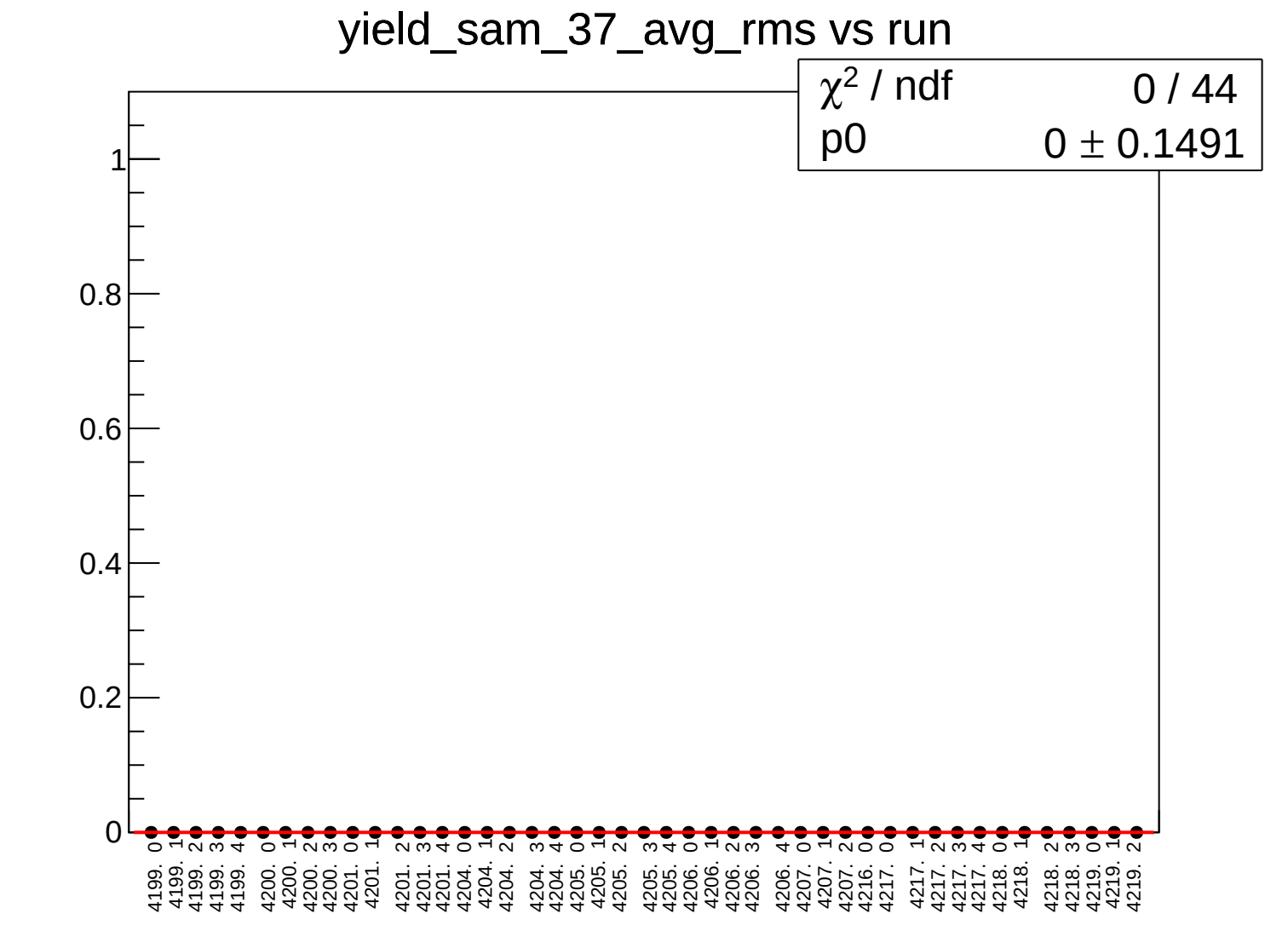

yield_sam_26_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

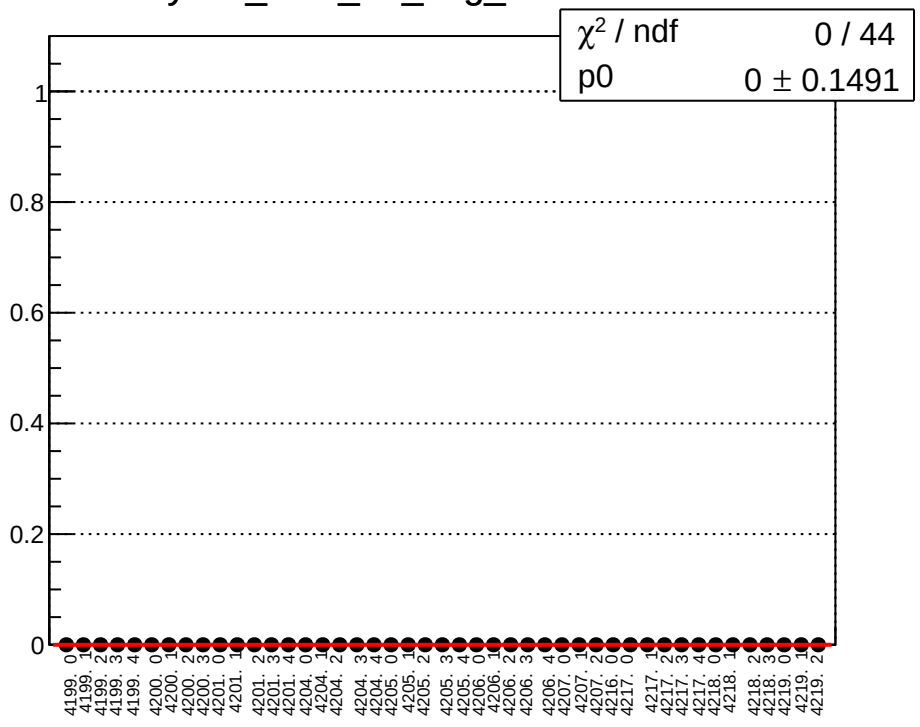

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

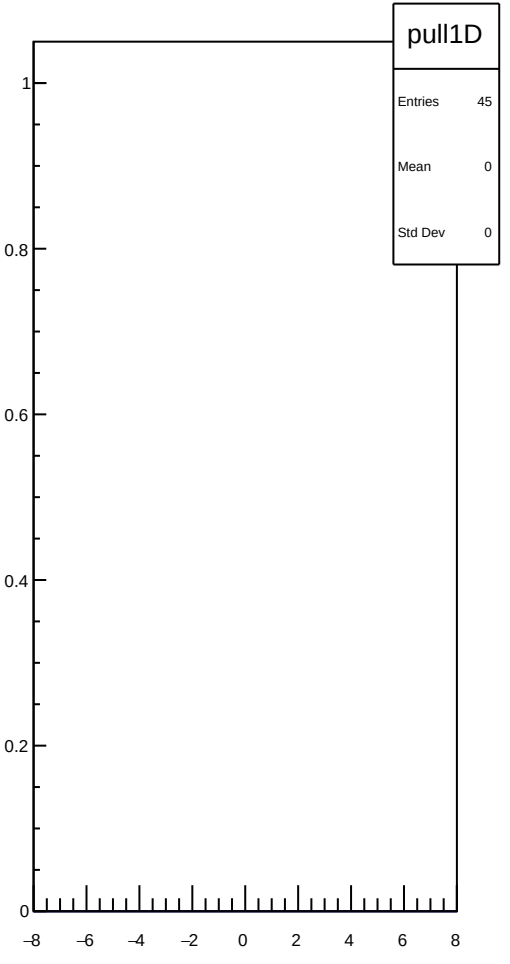

yield_sam_26_avg_rms vs run
χ^2 / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

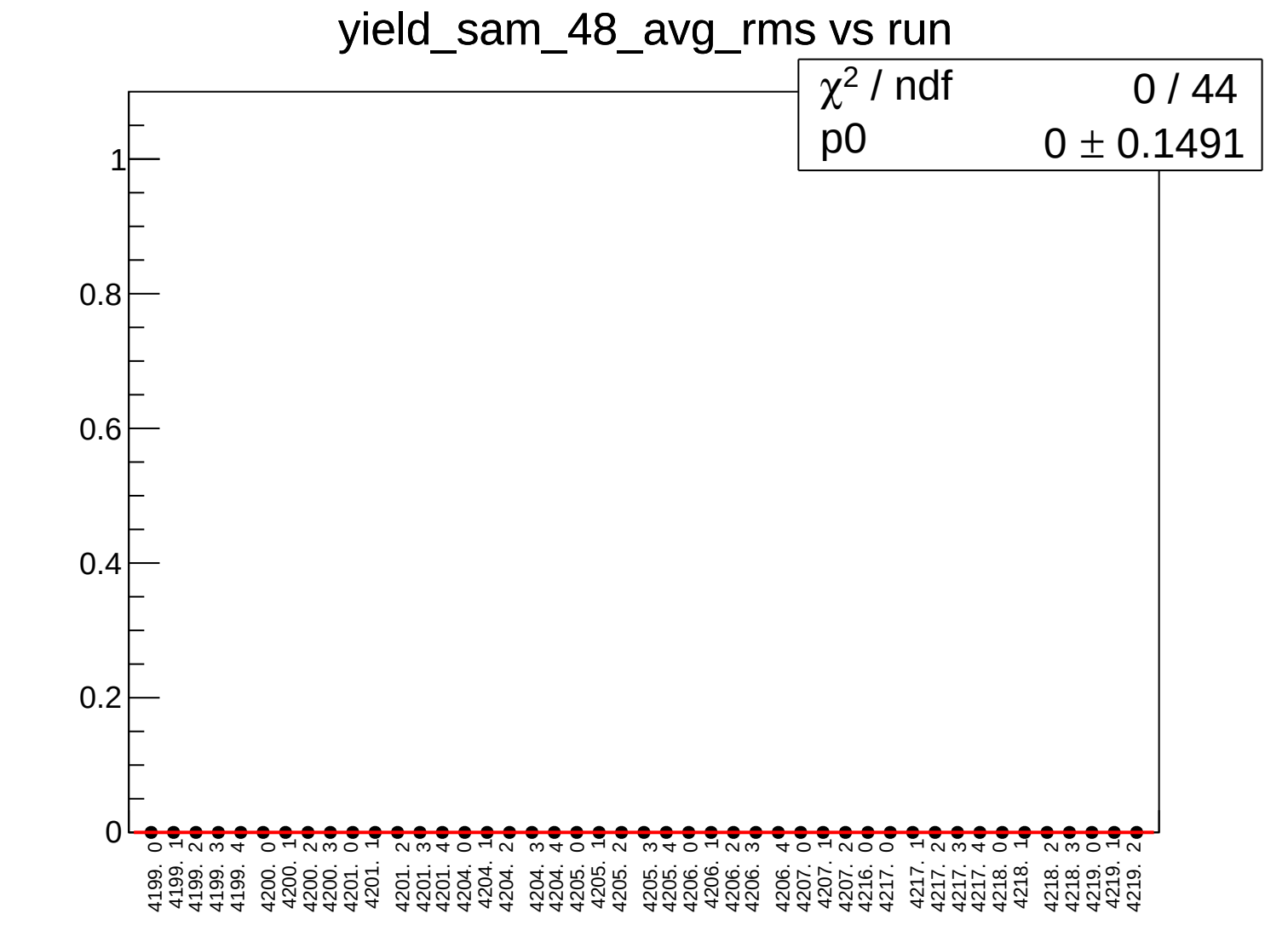

yield_sam_37_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

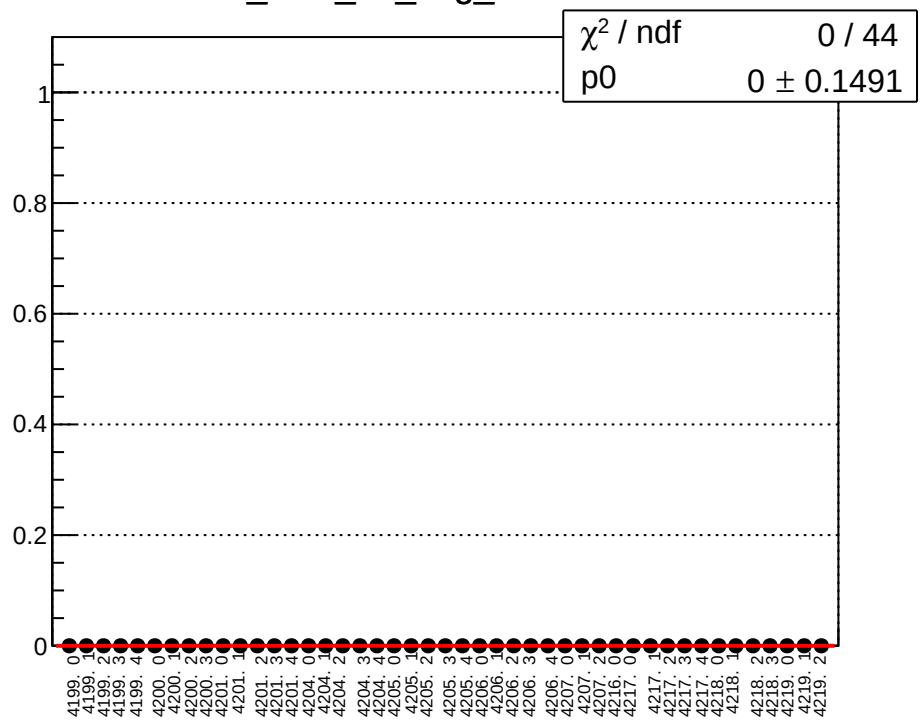

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

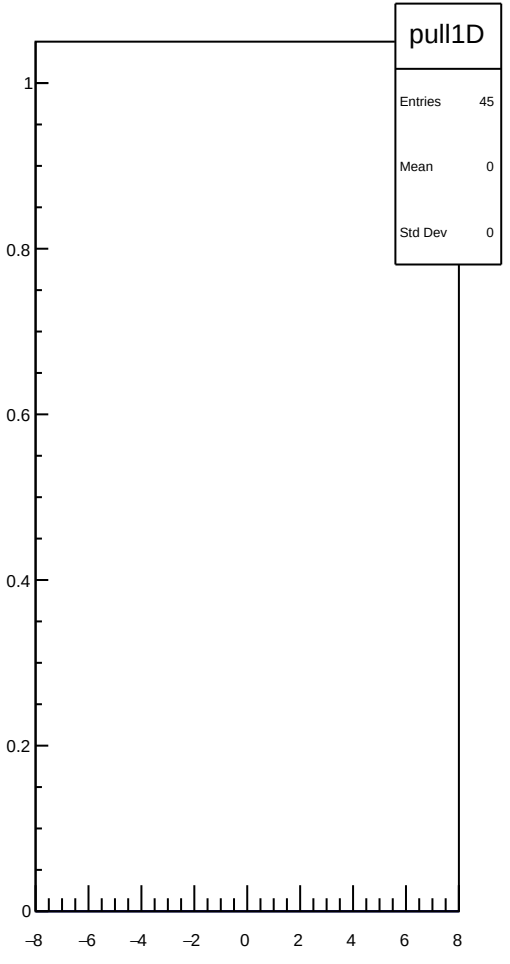

yield_sam_37_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

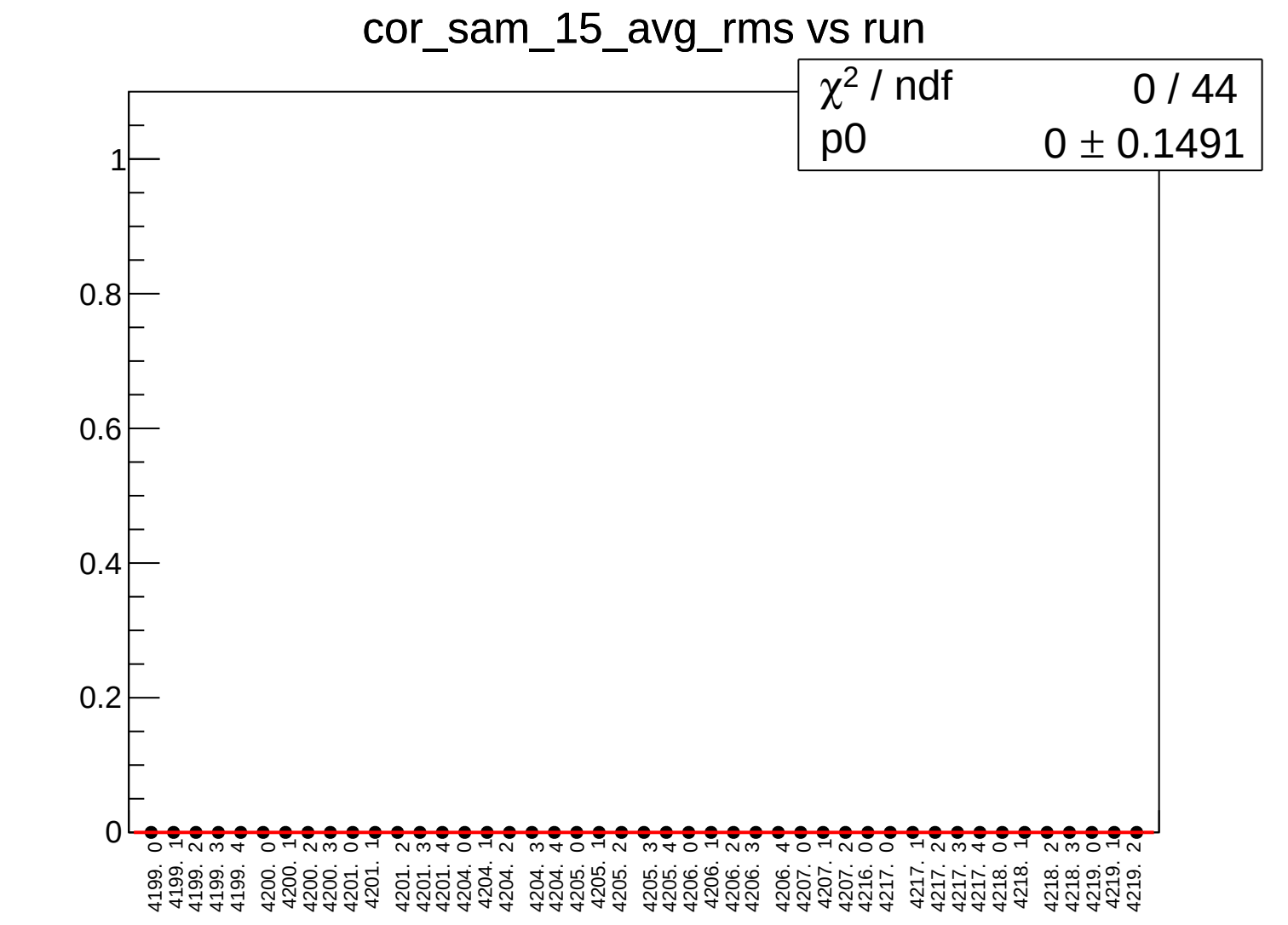

yield_sam_48_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

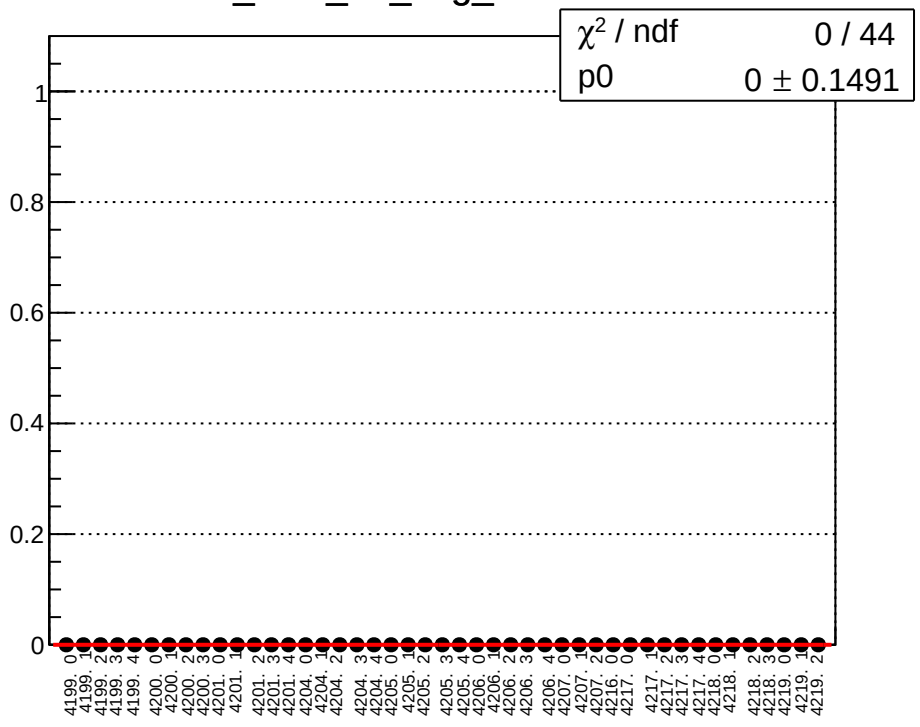

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

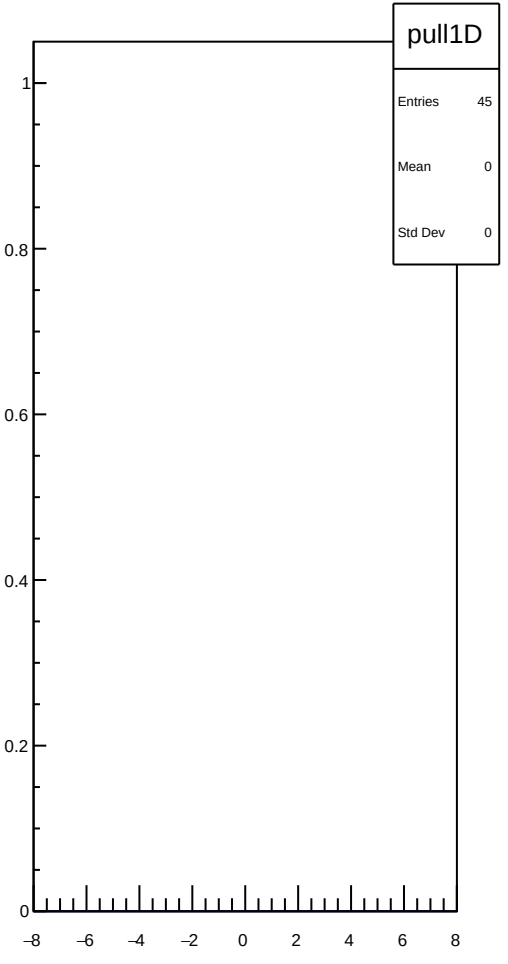

yield_sam_48_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

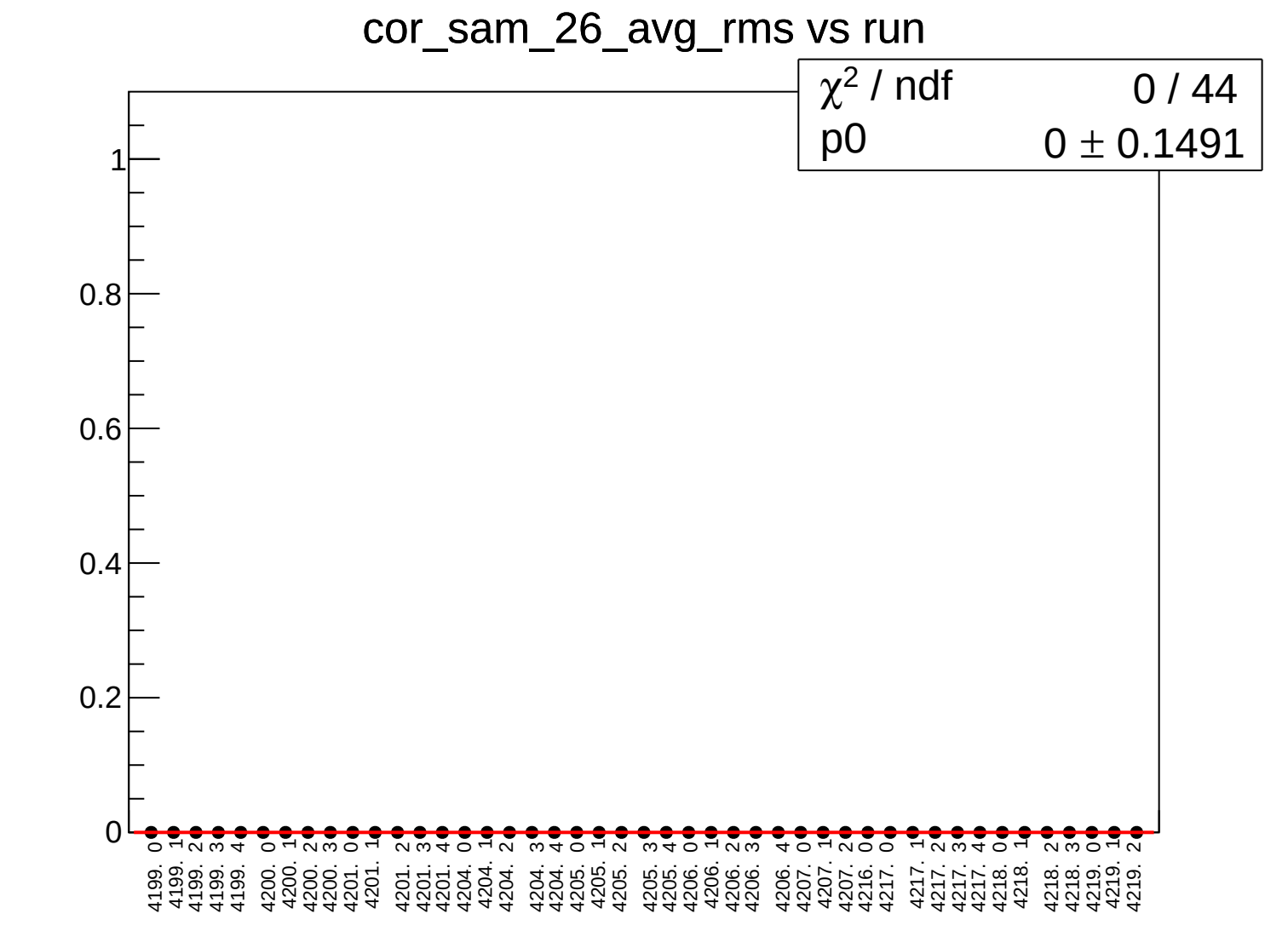

cor_sam_15_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

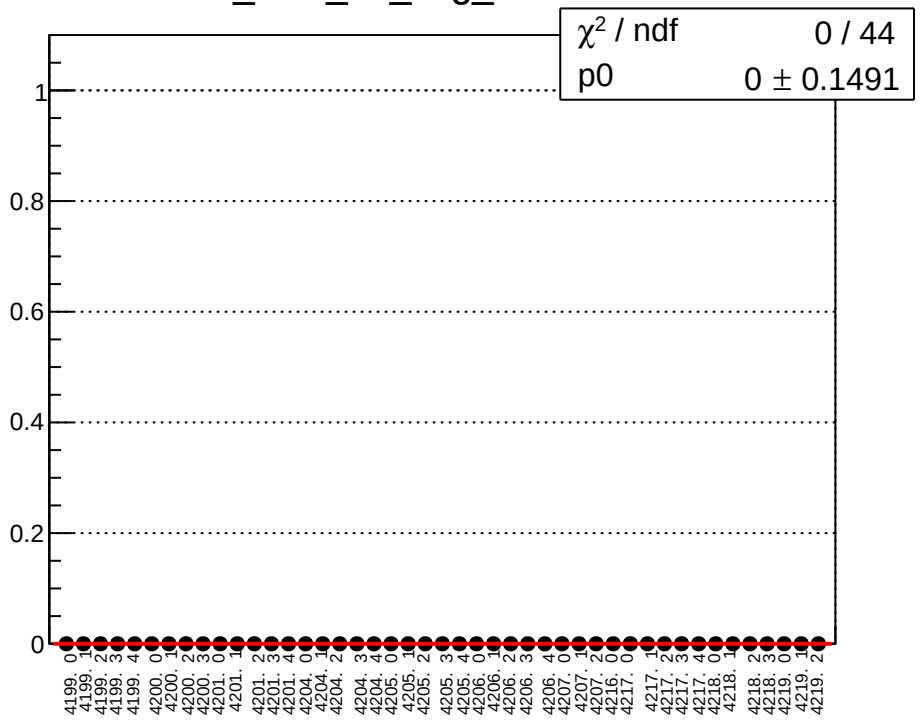

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

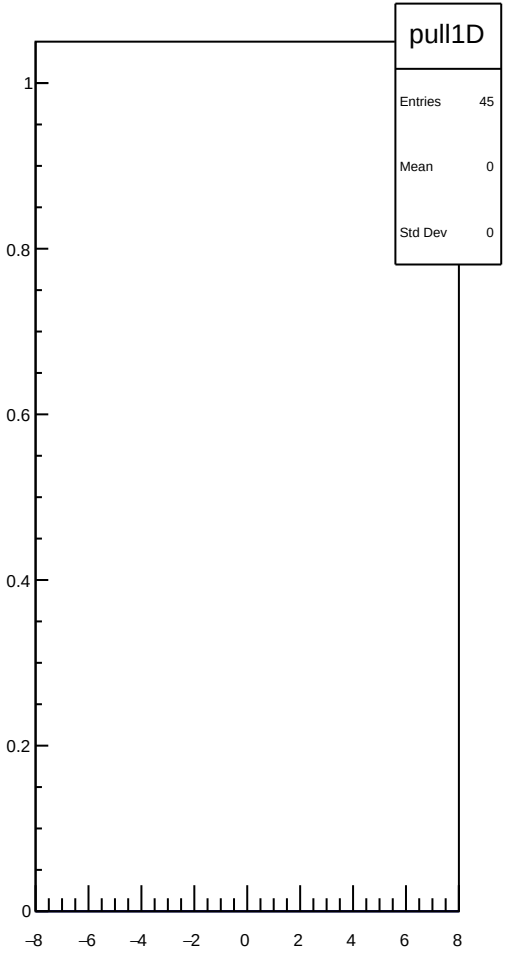

cor_sam_15_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

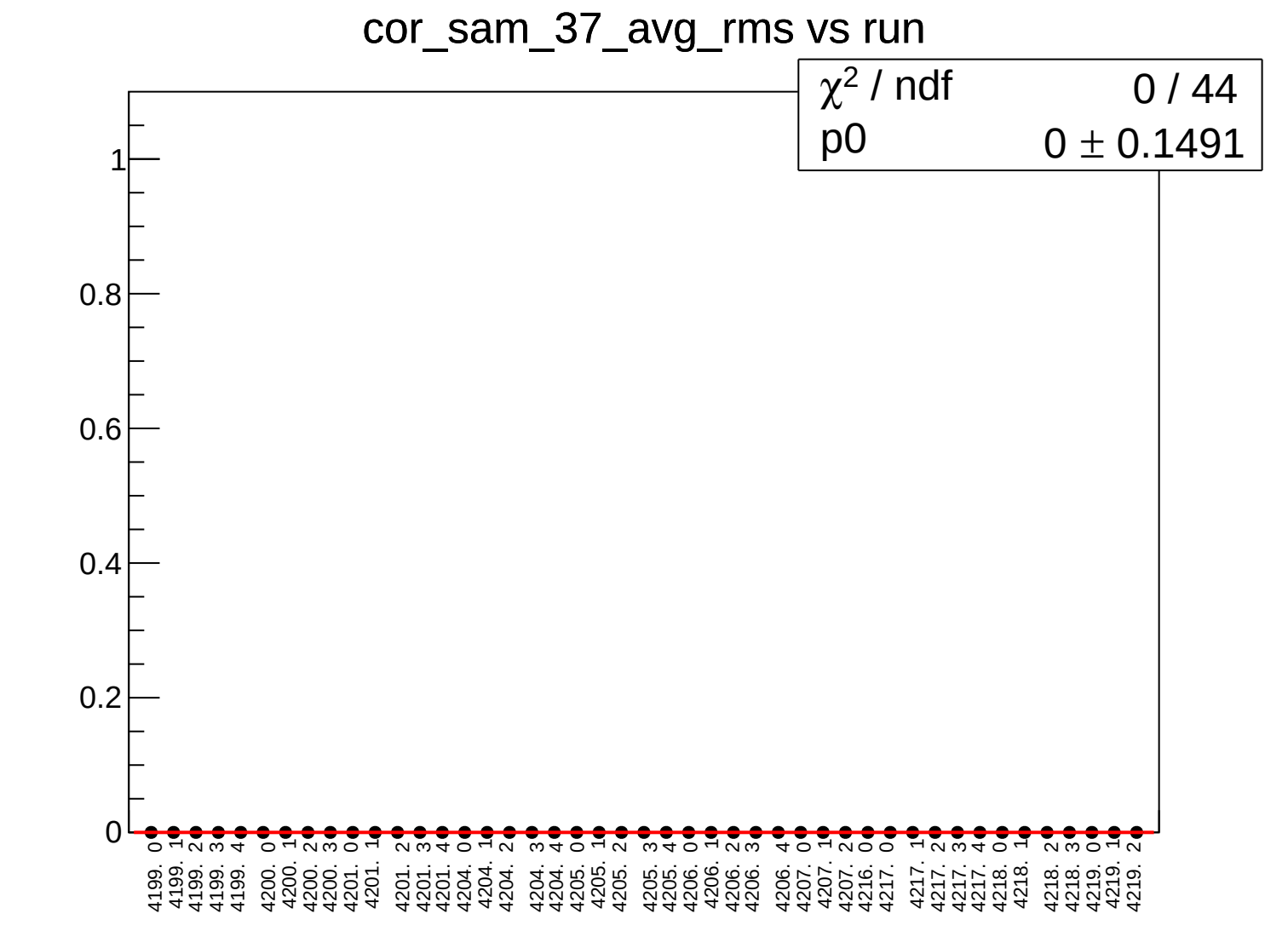

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

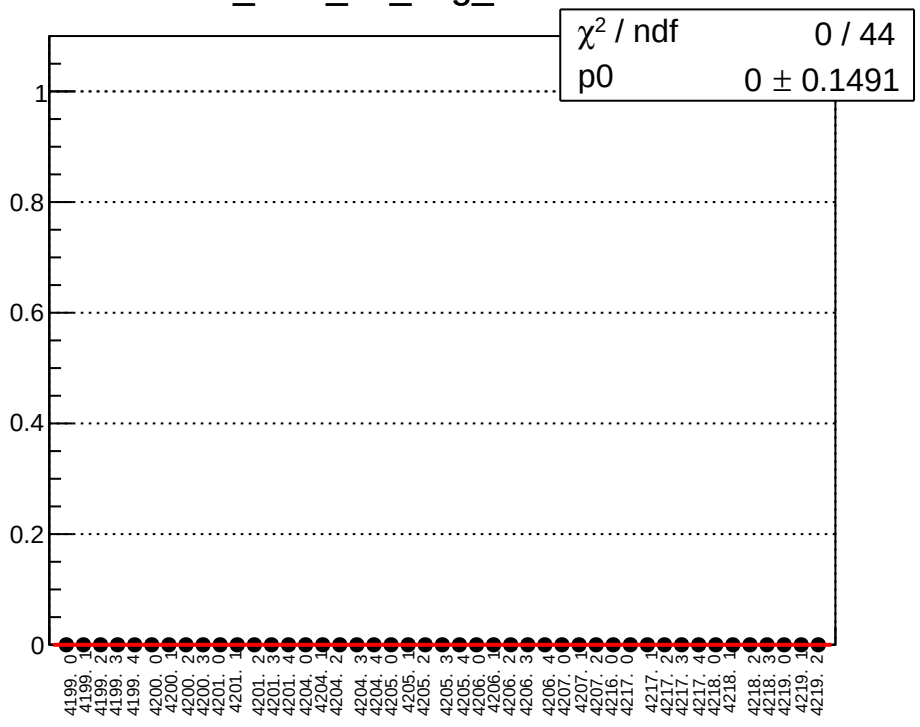

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

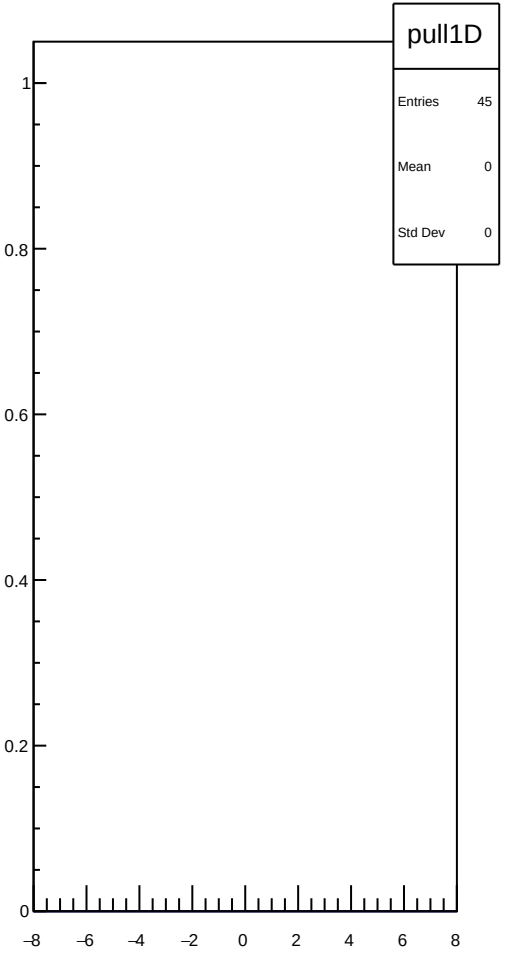

cor_sam_26_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

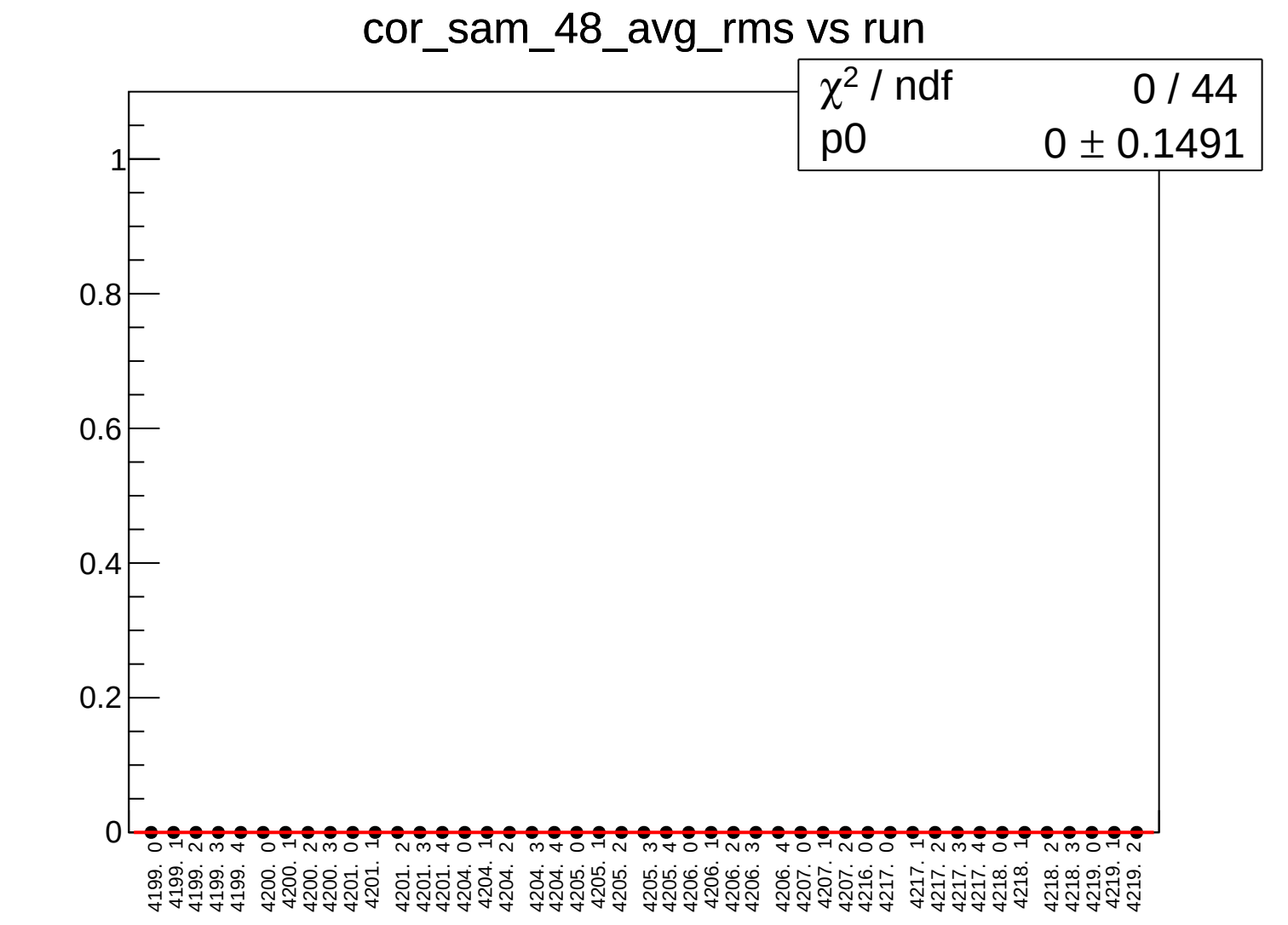

cor_sam_37_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

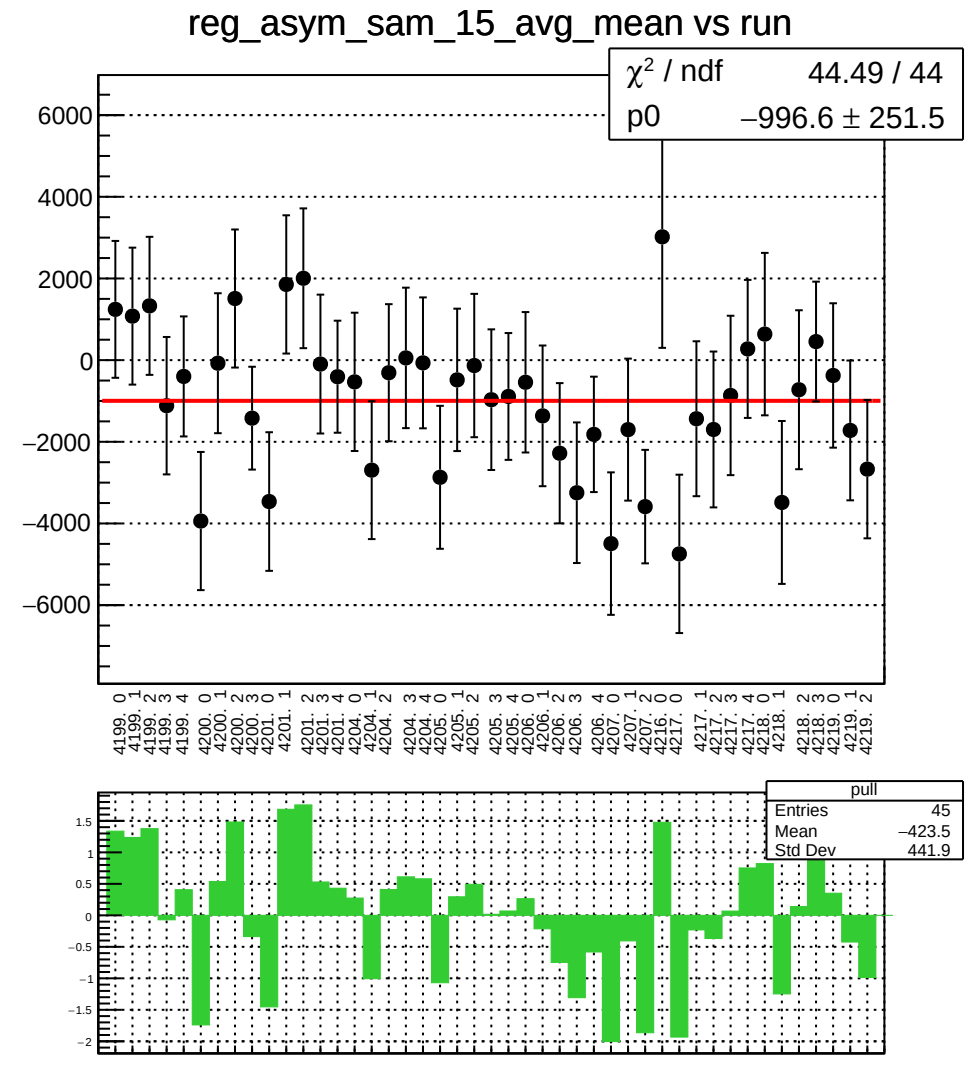

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

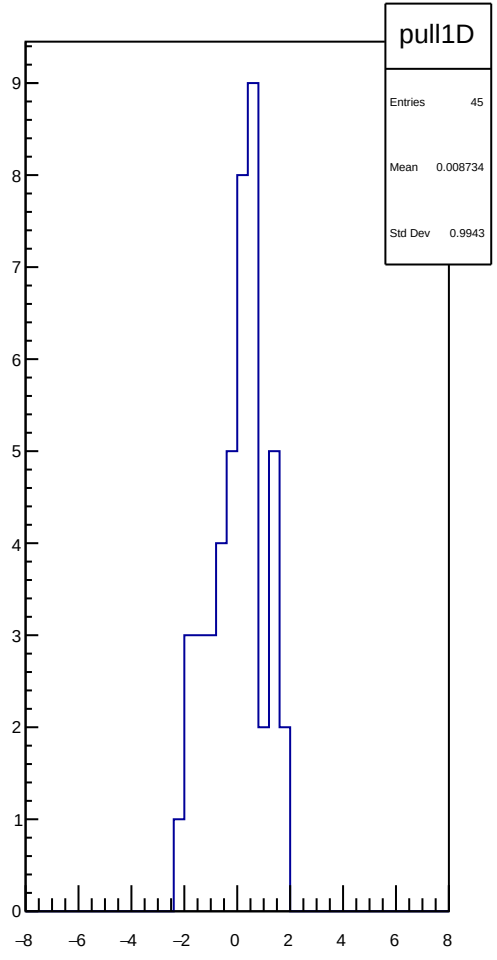

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

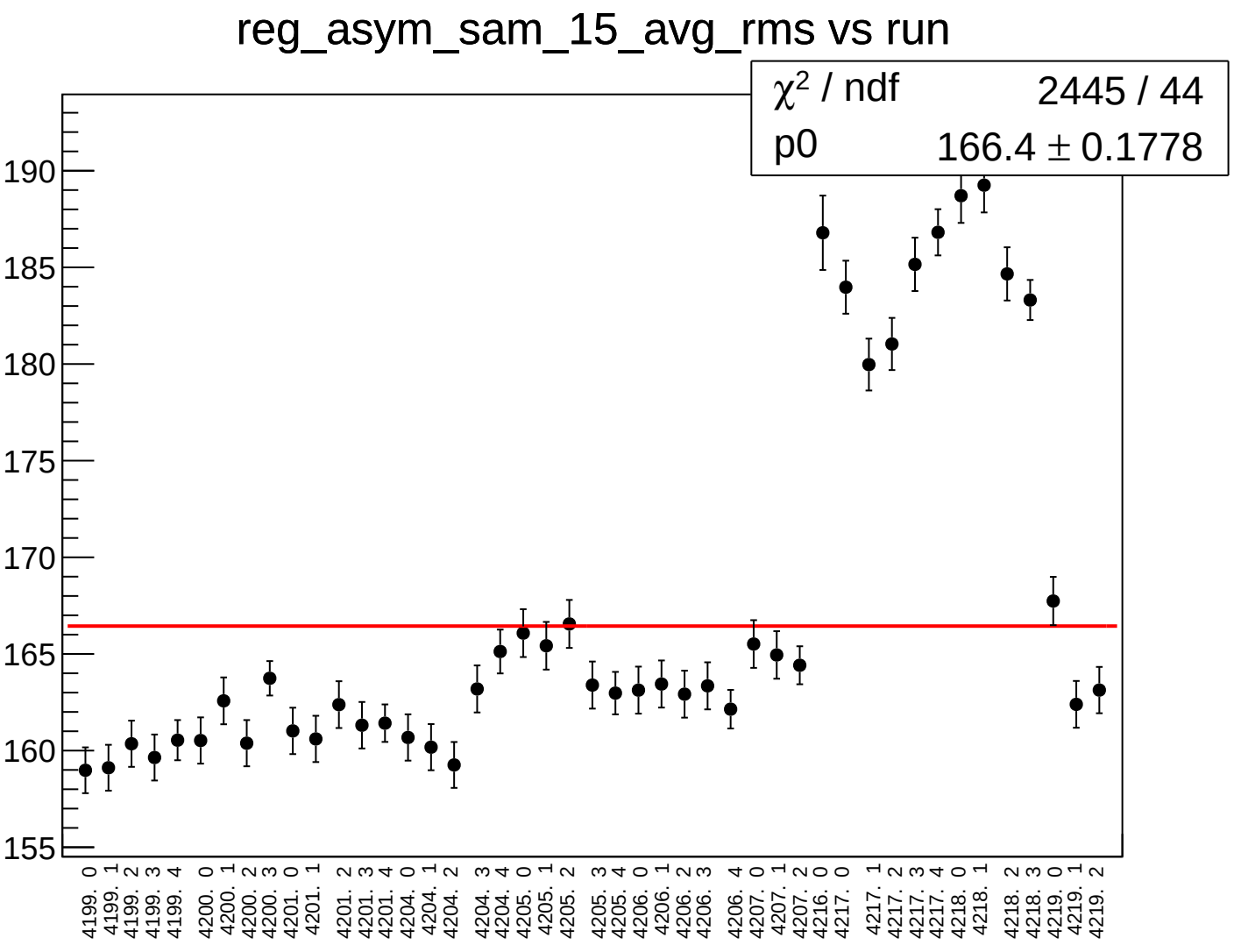

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

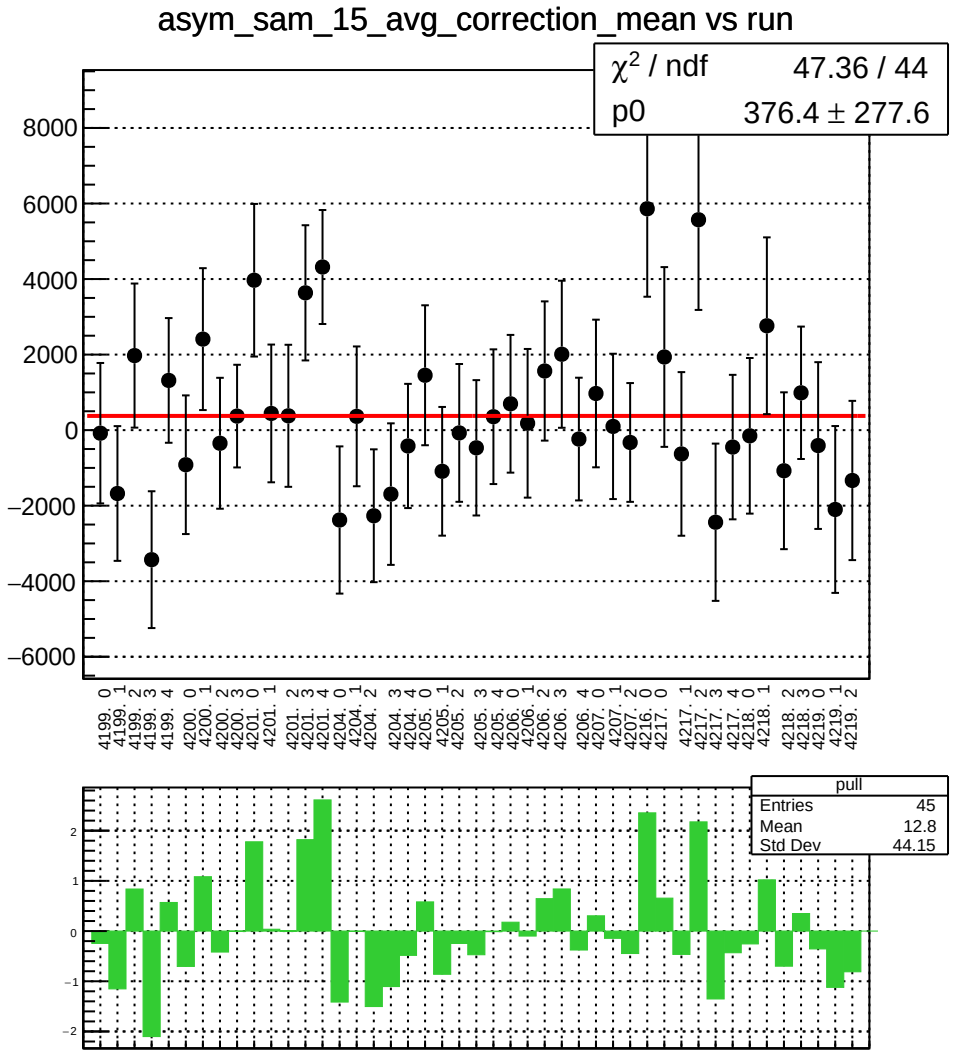

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

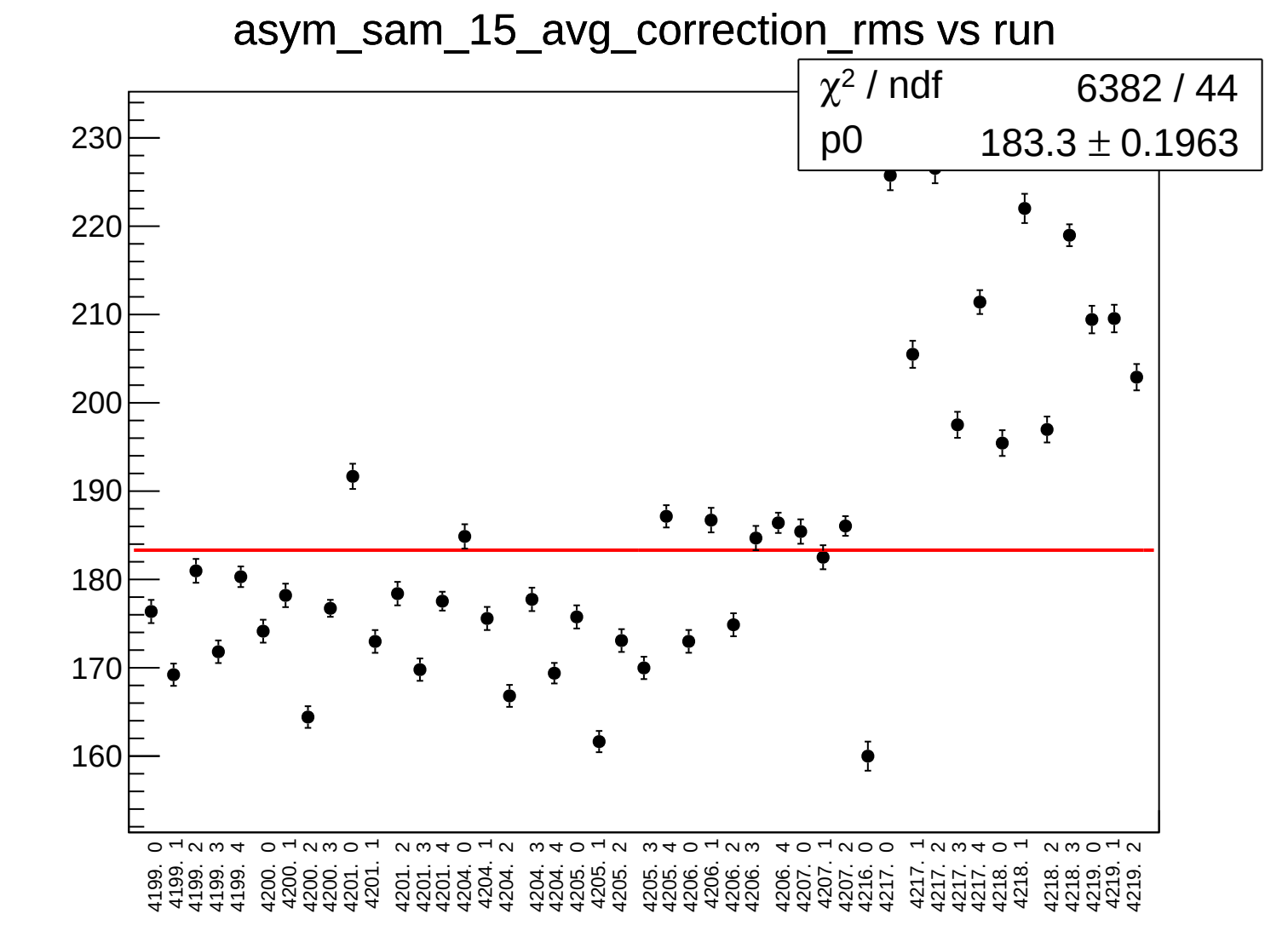

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

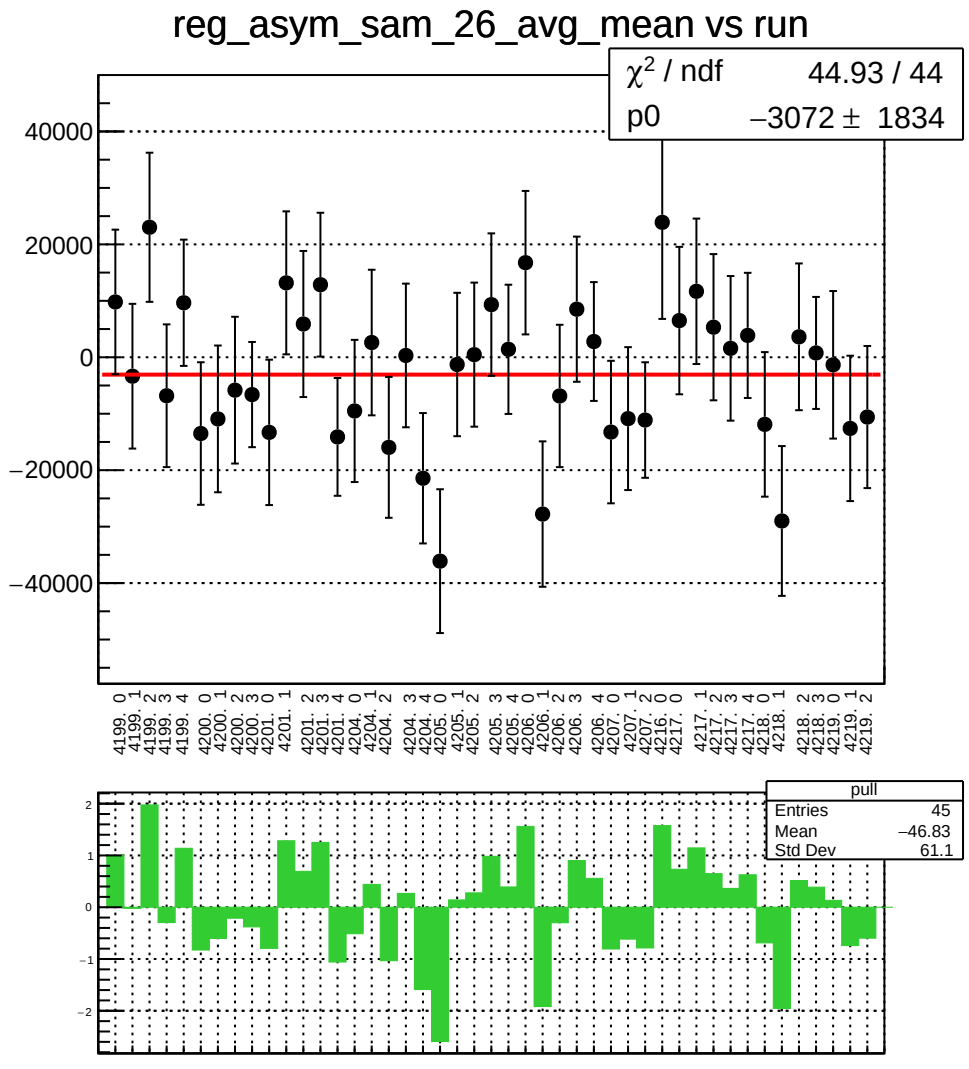

reg_asym_sam_15_avg_mean vs run
χ² / ndf 44.49 / 44
p0 −996.6 ± 251.5
pull
Entries 45
Mean −423.5
Std Dev 441.9

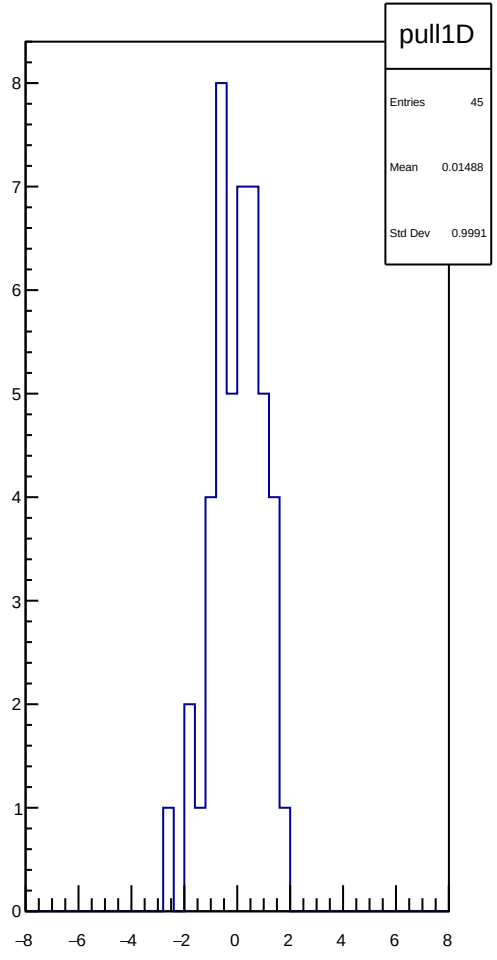

pull1D
Entries 45
Mean 0.008734
Std Dev 0.9943

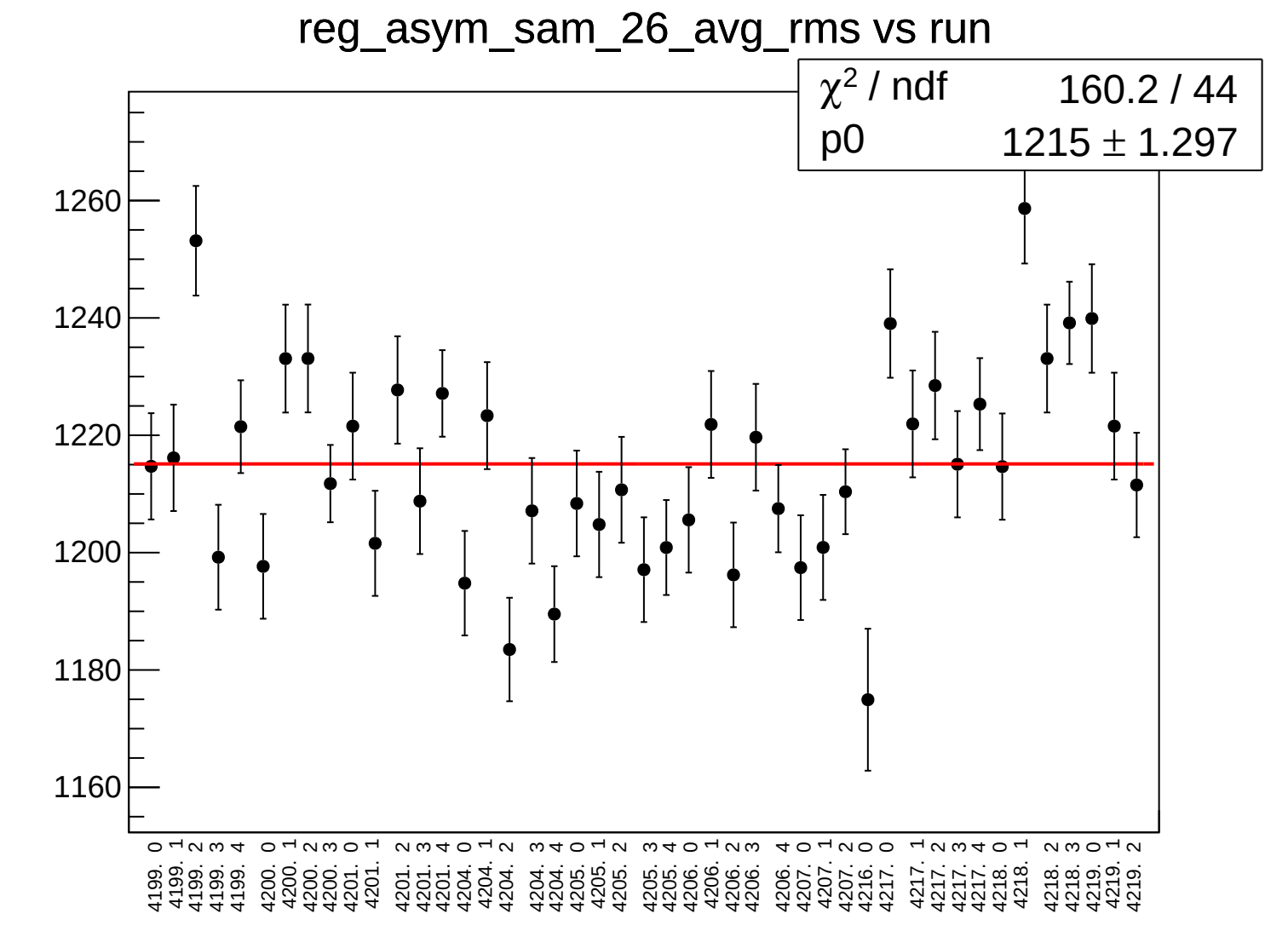

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2445 / 44
p0 166.4 ± 0.1778
190
185
180
175
170
165
160
155
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

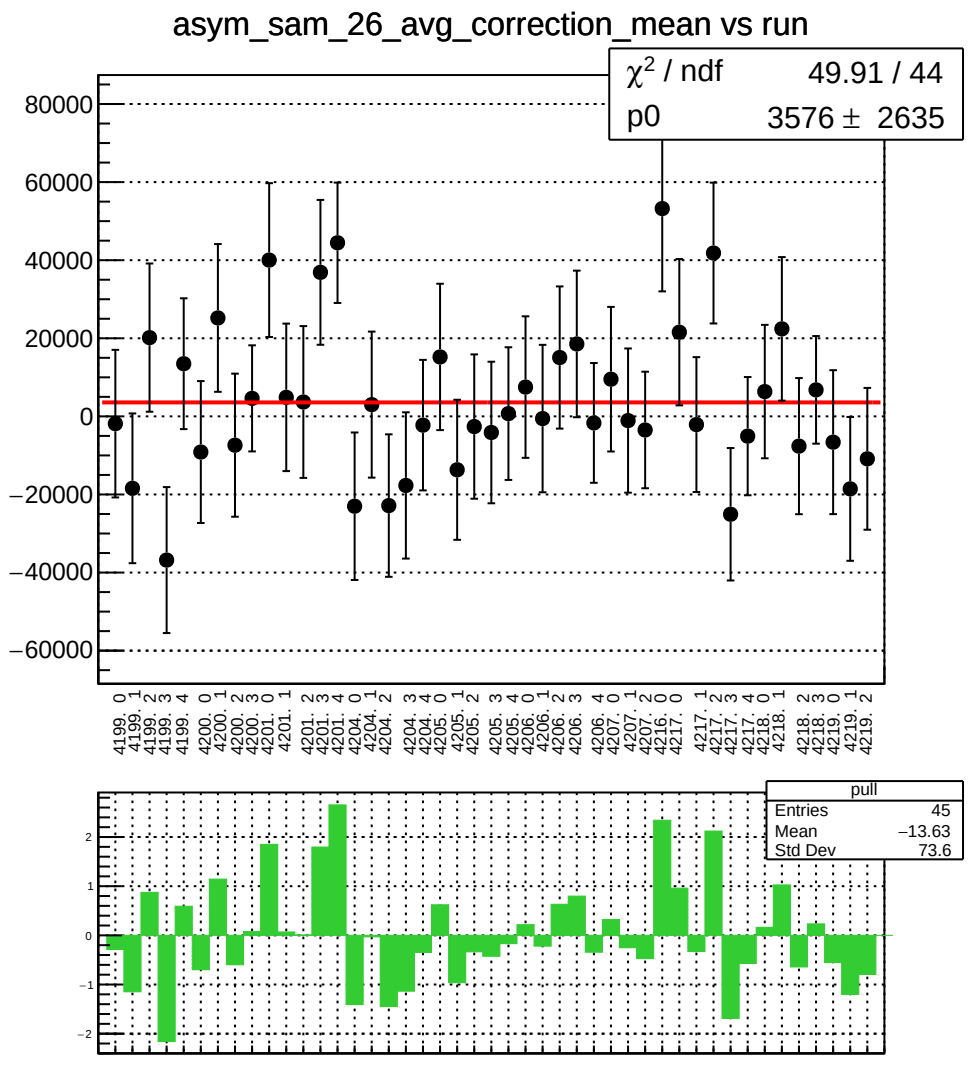

asym_sam_15_avg_correction_mean vs run
χ² / ndf 47.36 / 44
p0 376.4 ± 277.6
8000
6000
4000
2000
0
−2000
−4000
−6000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 12.8
Std Dev 44.15
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01229
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

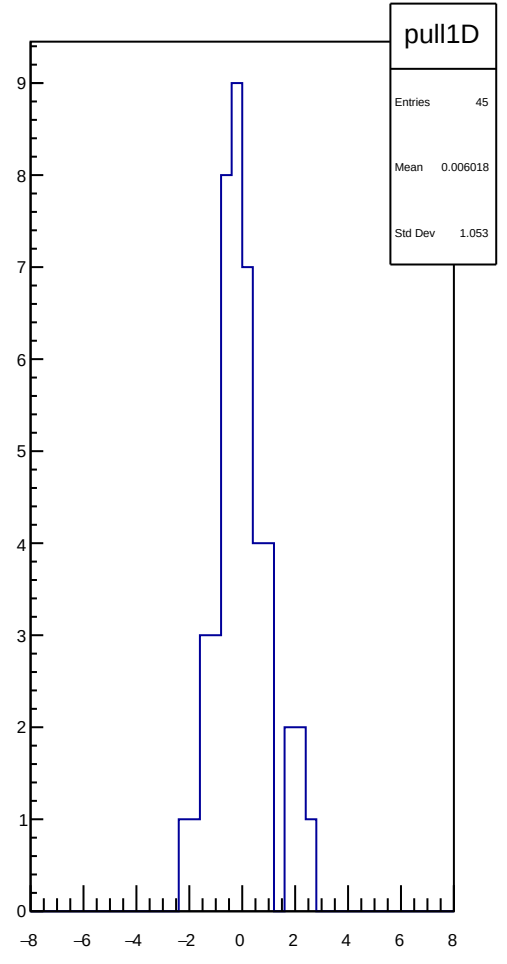

asym_sam_15_avg_correction_rms vs run
χ² / ndf 6382 / 44
p0 183.3 ± 0.1963
230
220
210
200
190
180
170
160
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

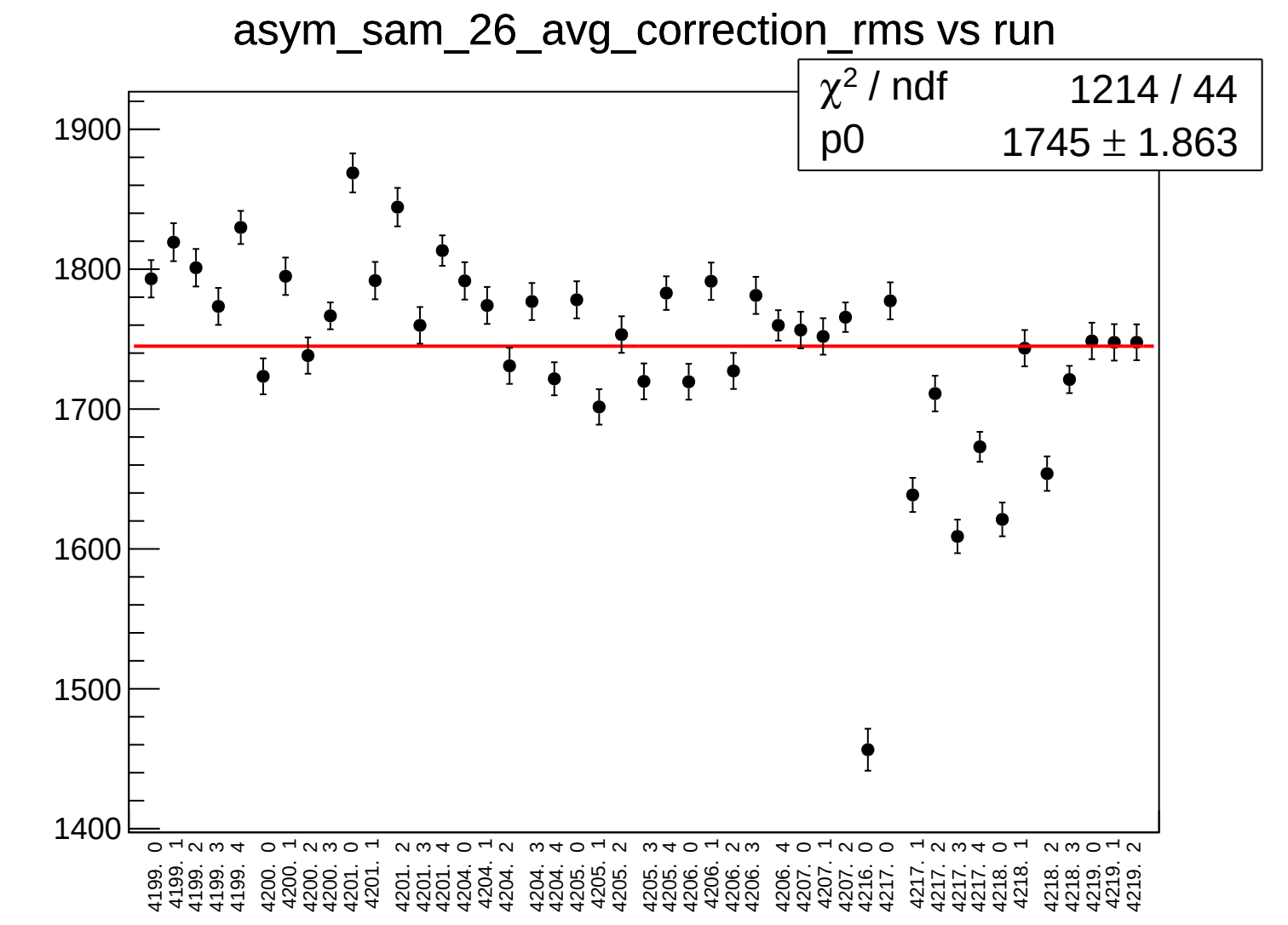

reg_asym_sam_26_avg_mean vs run
χ² / ndf 44.93 / 44
p0 −3072 ± 1834
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −46.83
Std Dev 61.1
2
1
0
−1
−2

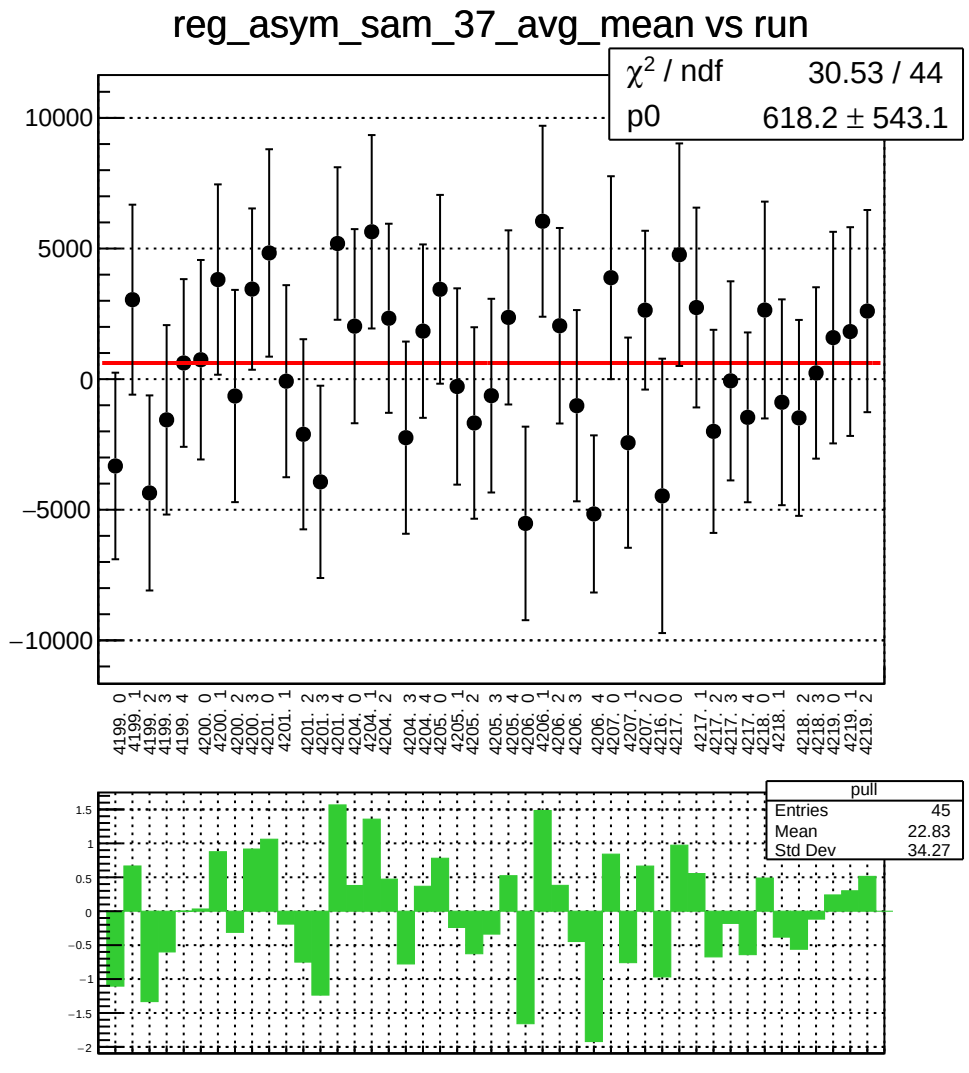

pull1D
Entries 45
Mean 0.01488
Std Dev 0.9991
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

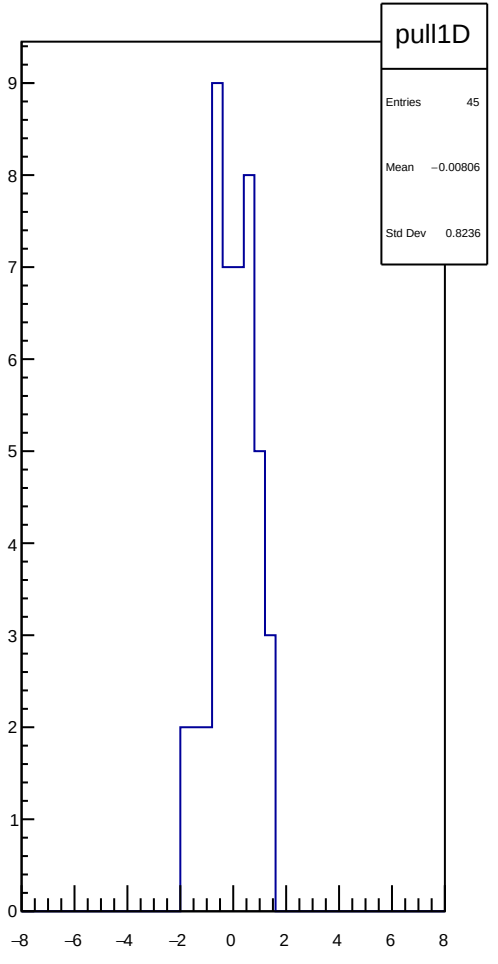

reg_asym_sam_26_avg_rms vs run
χ² / ndf 160.2 / 44
p0 1215 ± 1.297
1260
1240
1220
1200
1180
1160
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

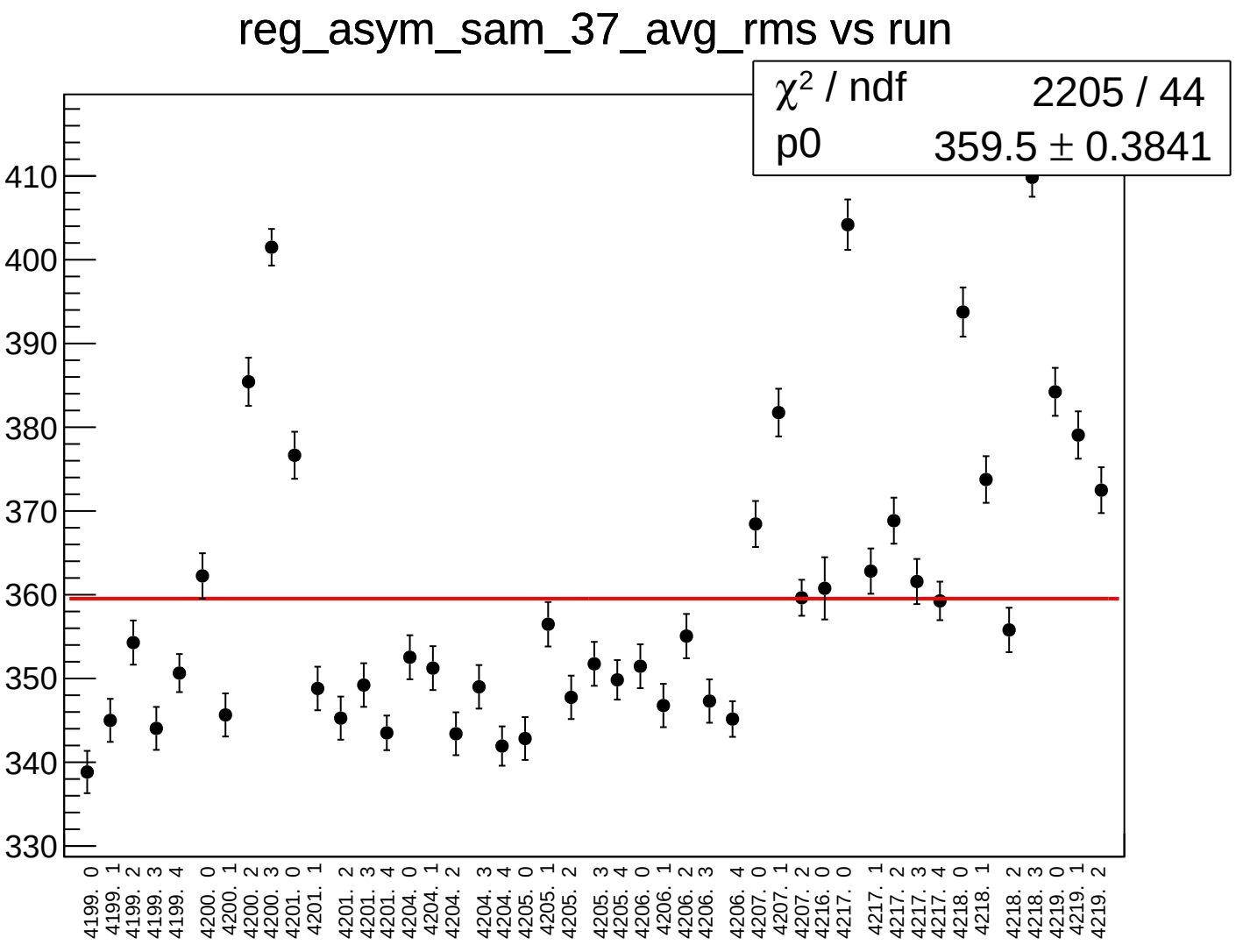

asym_sam_26_avg_correction_mean vs run
χ² / ndf 49.91 / 44
p0 3576 ± 2635
80000
60000
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −13.63
Std Dev 73.6
2
1
0
−1
−2

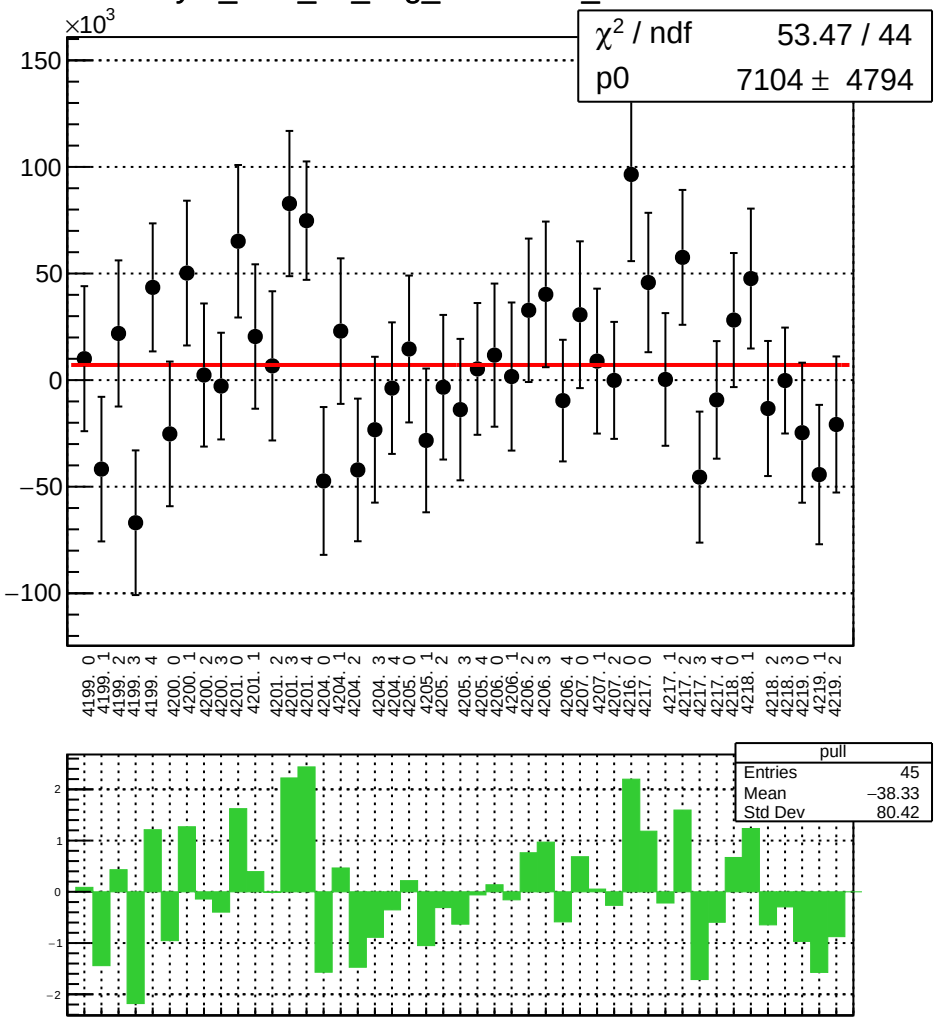

pull1D
Entries 45
Mean 0.006018
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

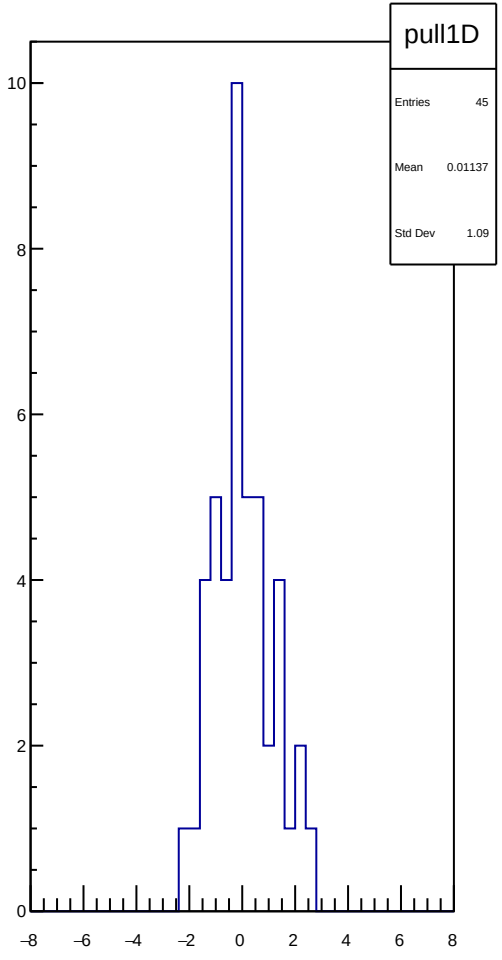

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1214 / 44
p0 1745 ± 1.863
1900
1800
1700
1600
1500
1400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

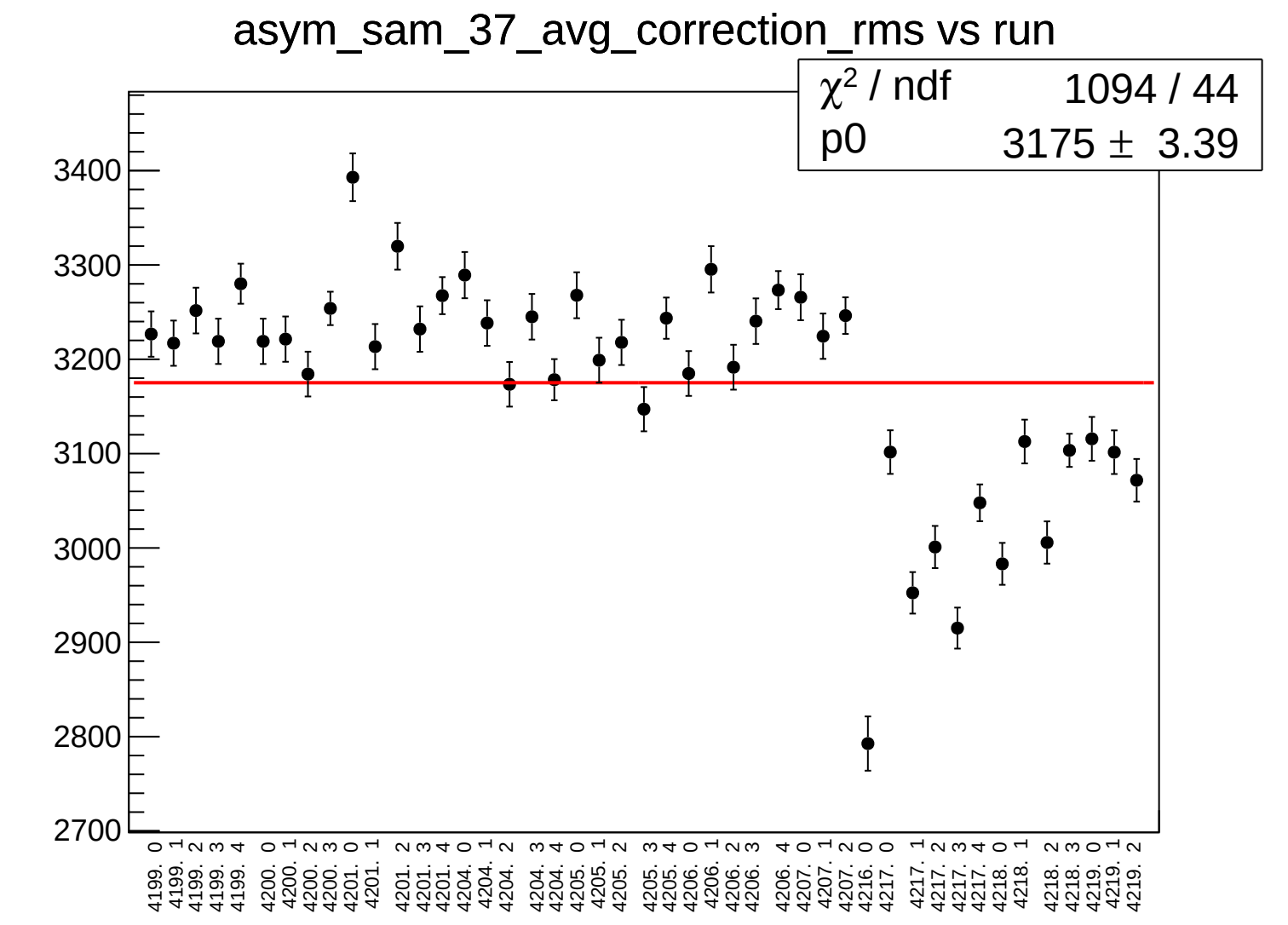

reg_asym_sam_37_avg_mean vs run
χ² / ndf 30.53 / 44
p0 618.2 ± 543.1
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 22.83
Std Dev 34.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

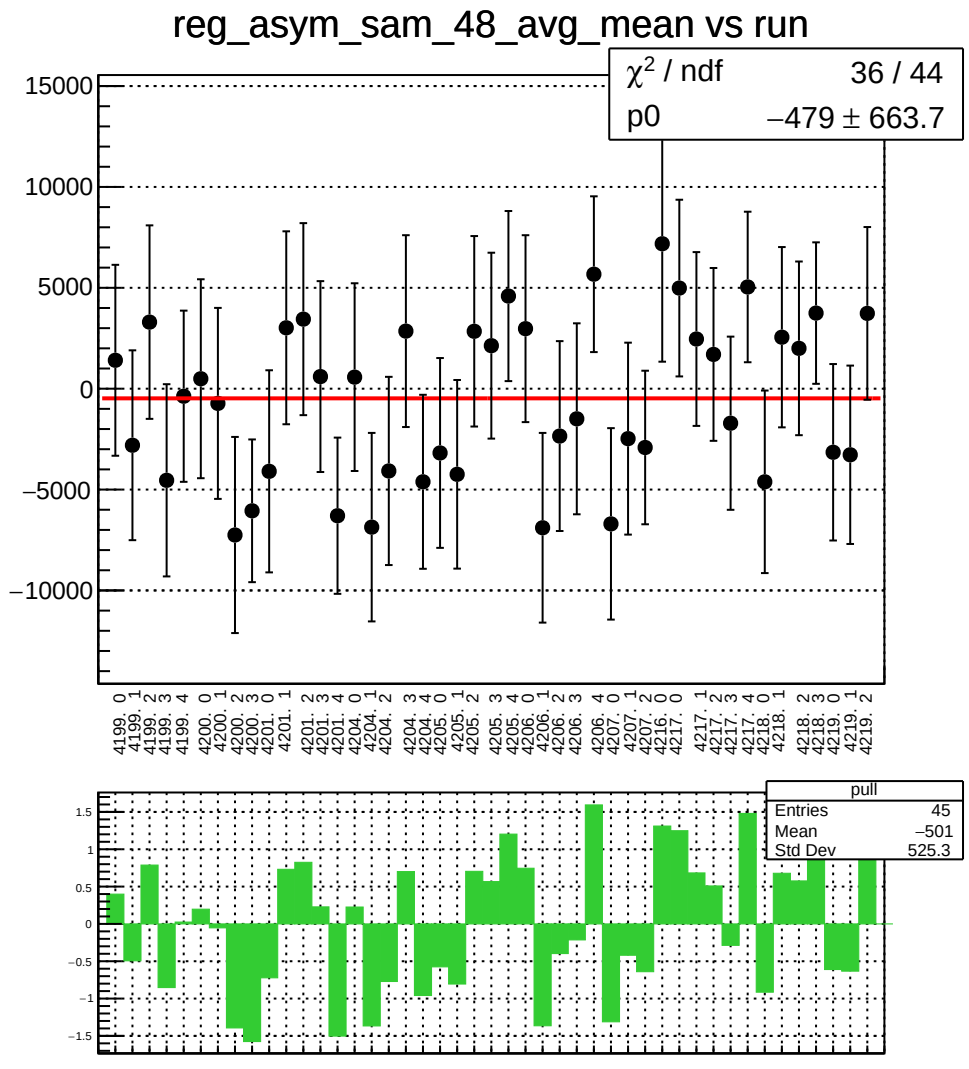

pull1D
Entries 45
Mean −0.00806
Std Dev 0.8236
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

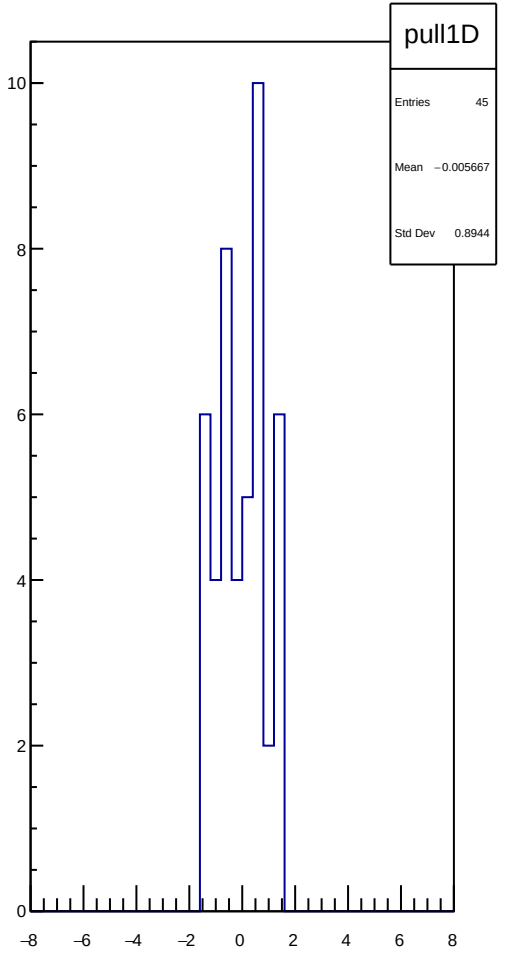

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2205 / 44
p0 359.5 ± 0.3841
410
400
390
380
370
360
350
340
330
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

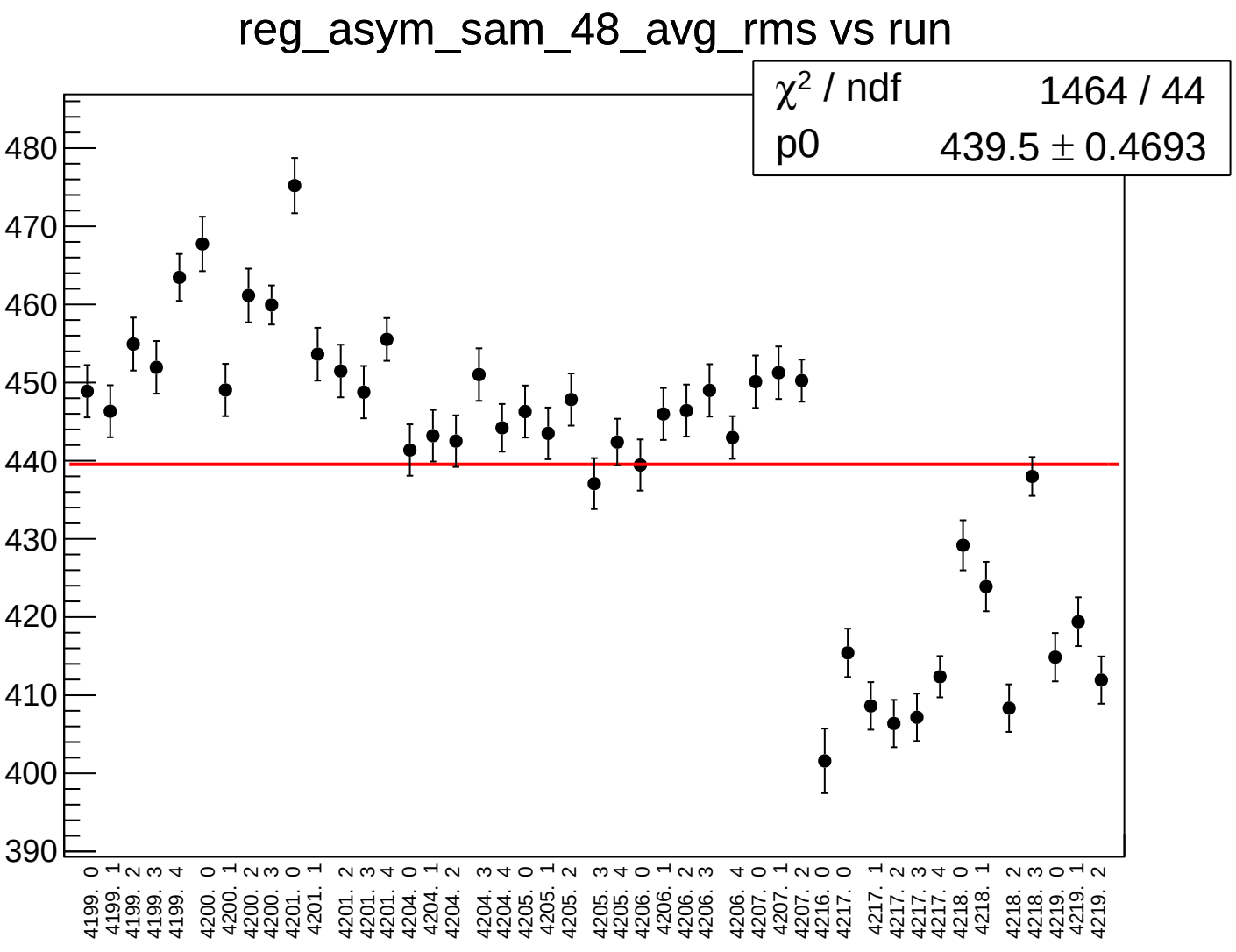

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 53.47 / 44
p0 7104 ± 4794
150
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −38.33
Std Dev 80.42
2
1
0
−1
−2

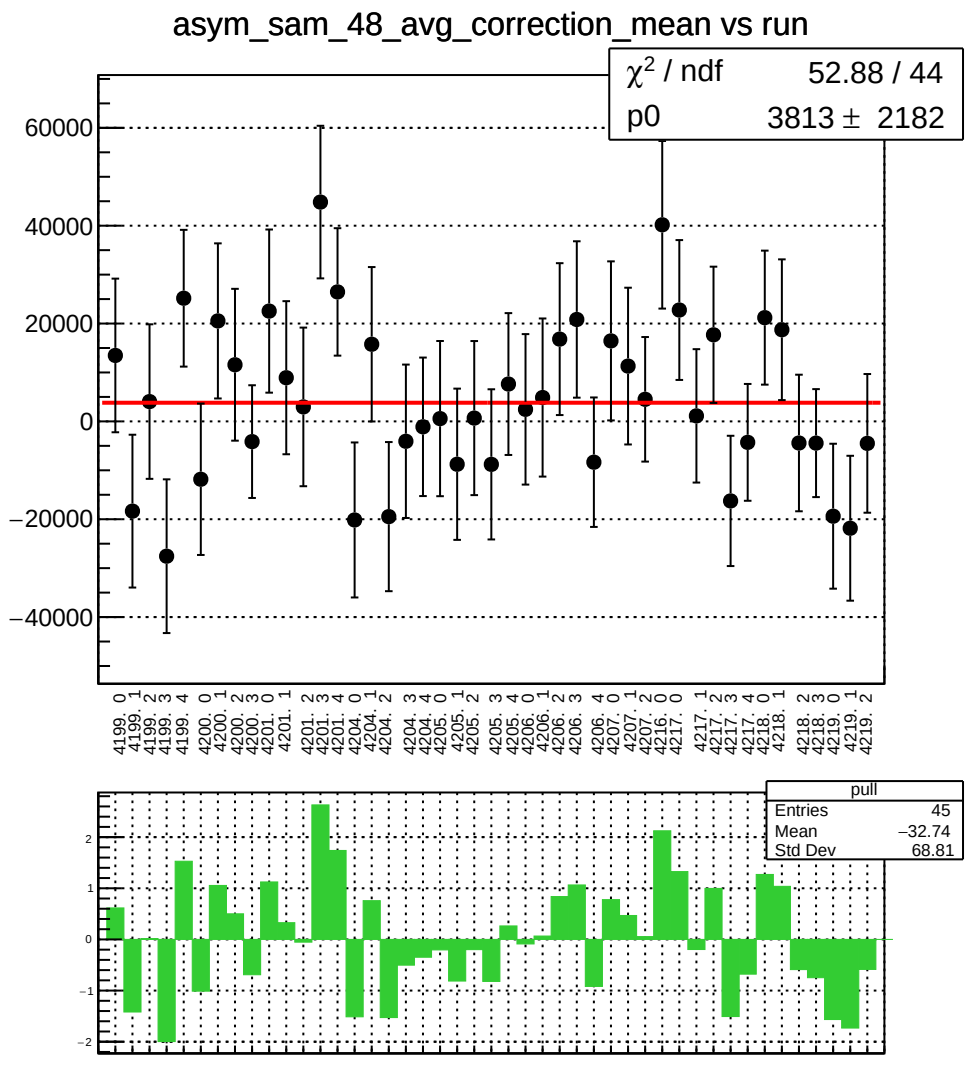

pull1D
Entries 45
Mean 0.01137
Std Dev 1.09
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

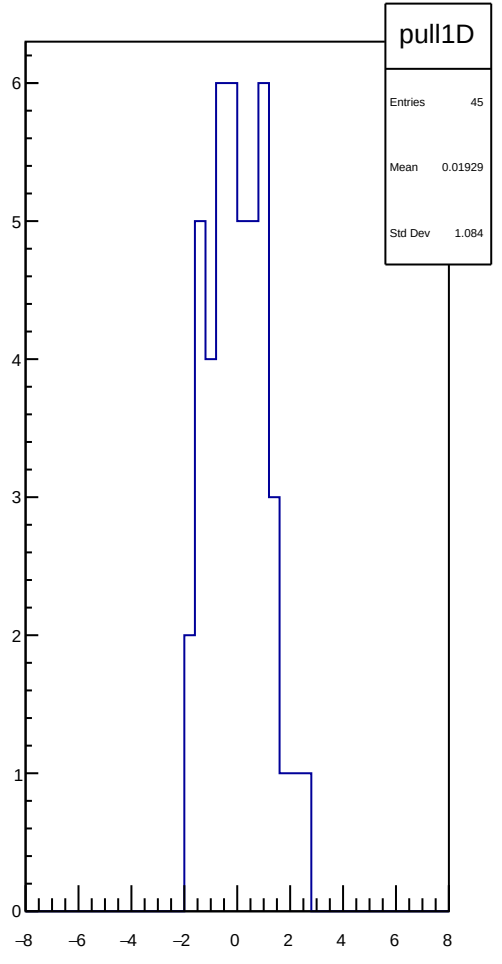

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1094 / 44
p0 3175 ± 3.39
3400
3300
3200
3100
3000
2900
2800
2700
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

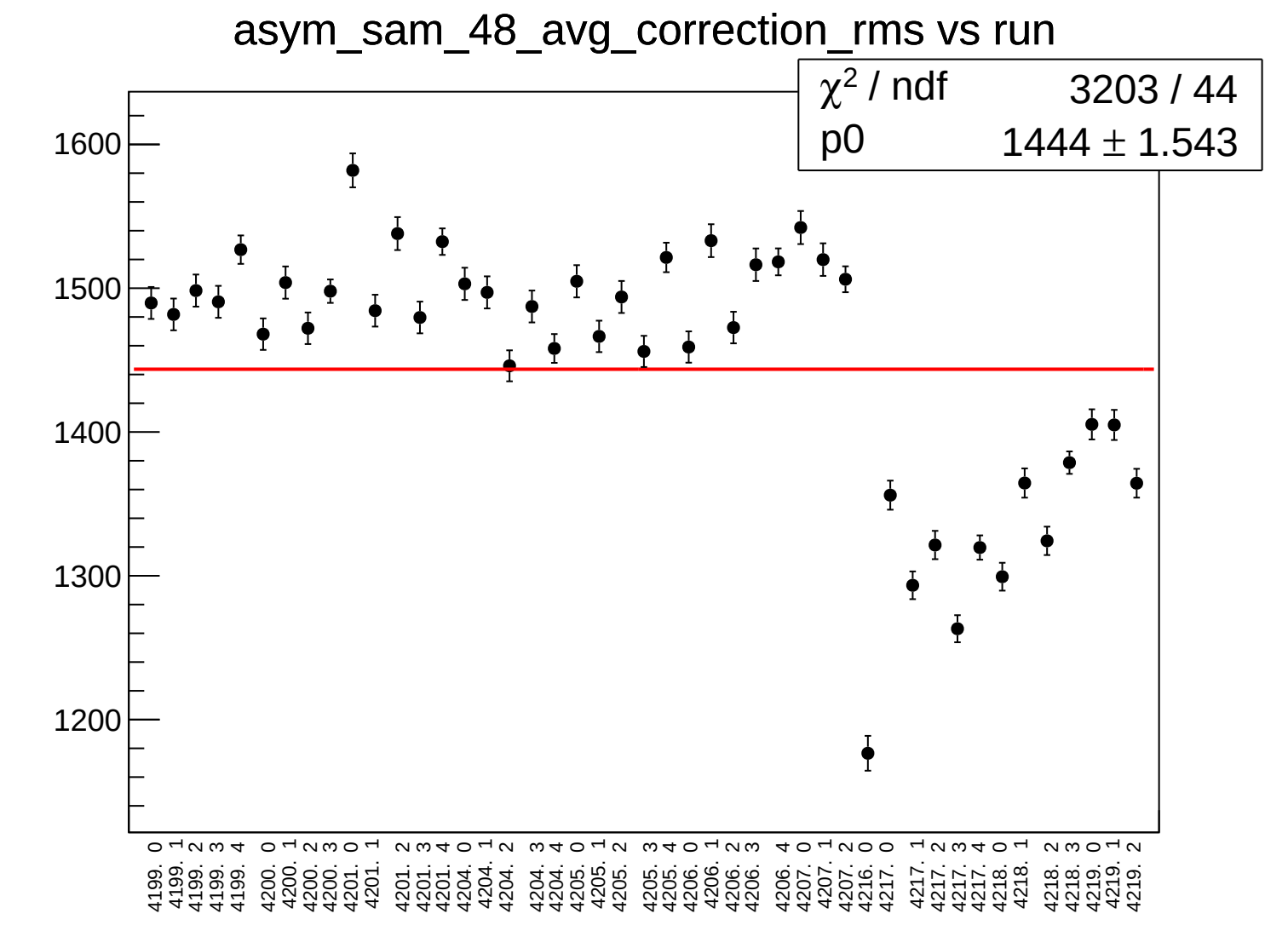

reg_asym_sam_48_avg_mean vs run
χ² / ndf 36 / 44
p0 −479 ± 663.7
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −501
Std Dev 525.3
1.5
1
0.5
0
−0.5
−1
−1.5

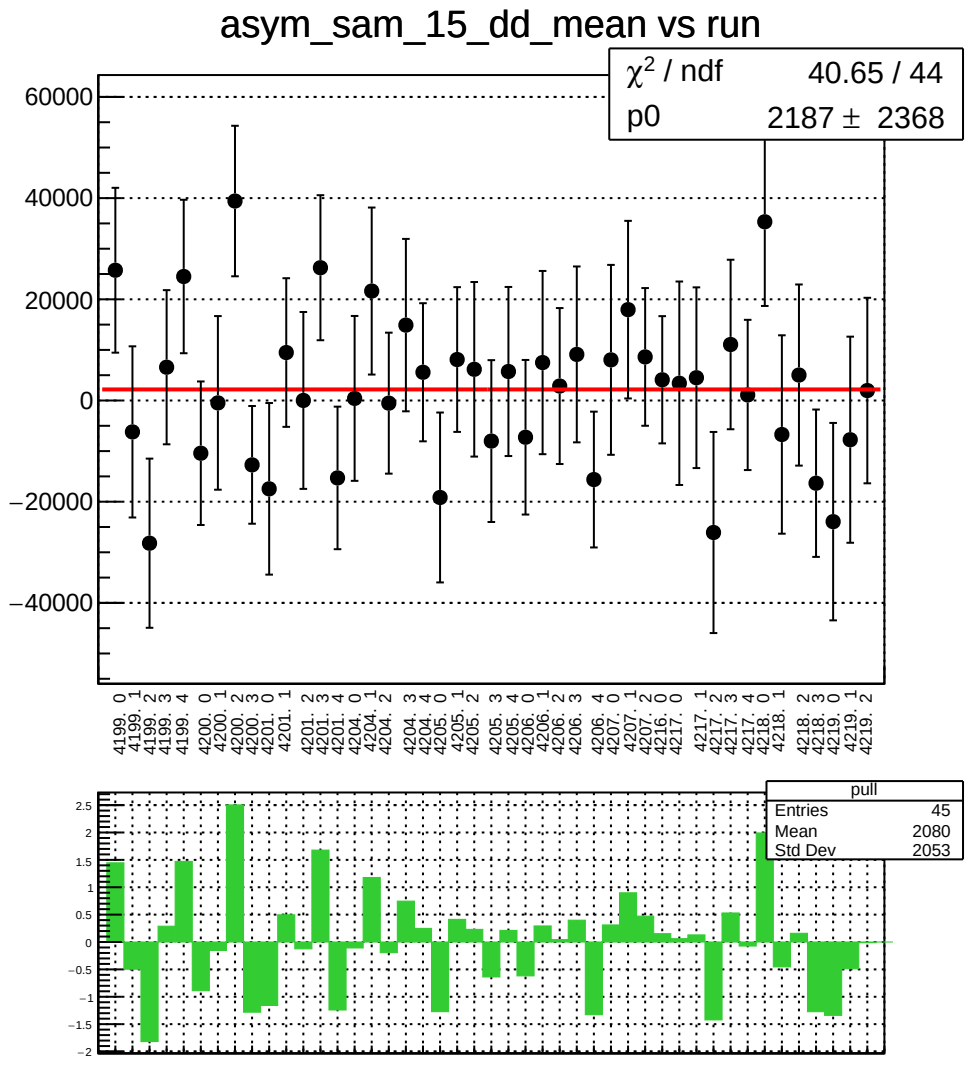

pull1D
Entries 45
Mean −0.005667
Std Dev 0.8944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

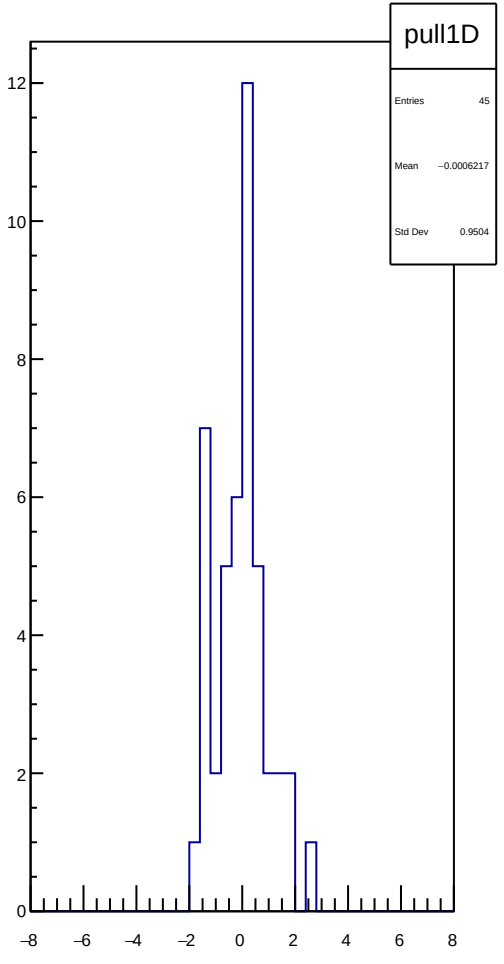

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1464 / 44
p0 439.5 ± 0.4693
480
470
460
450
440
430
420
410
400
390
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

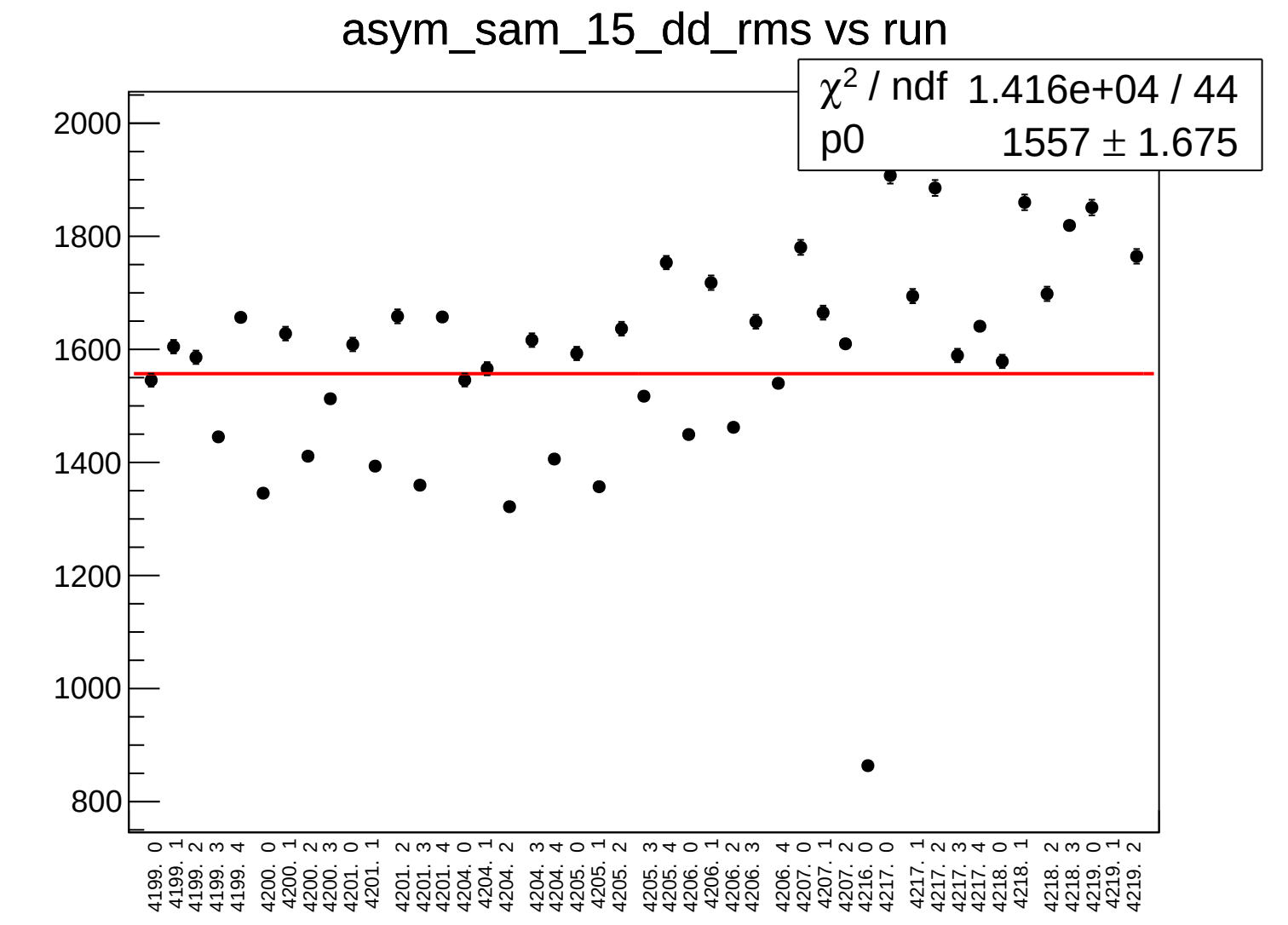

asym_sam_48_avg_correction_mean vs run
χ² / ndf 52.88 / 44
p0 3813 ± 2182
60000
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −32.74
Std Dev 68.81
2
1
0
−1
−2

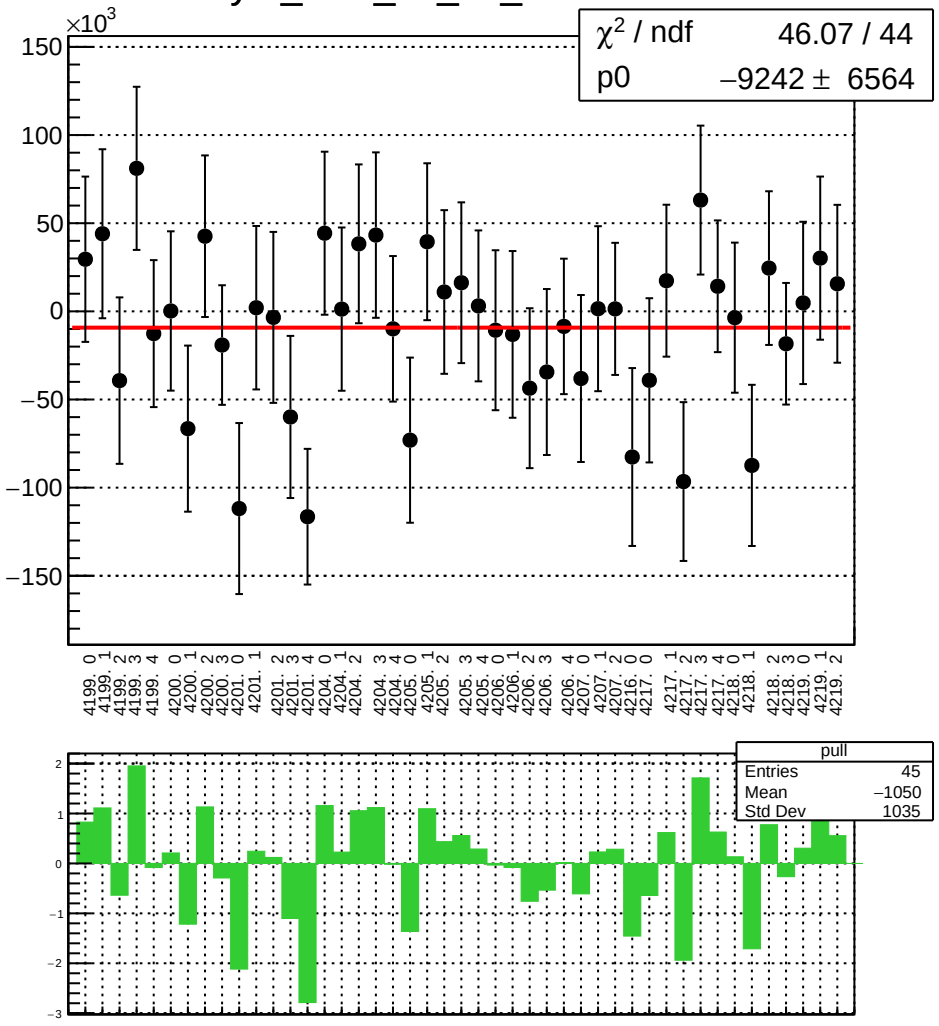

pull1D
Entries 45
Mean 0.01929
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

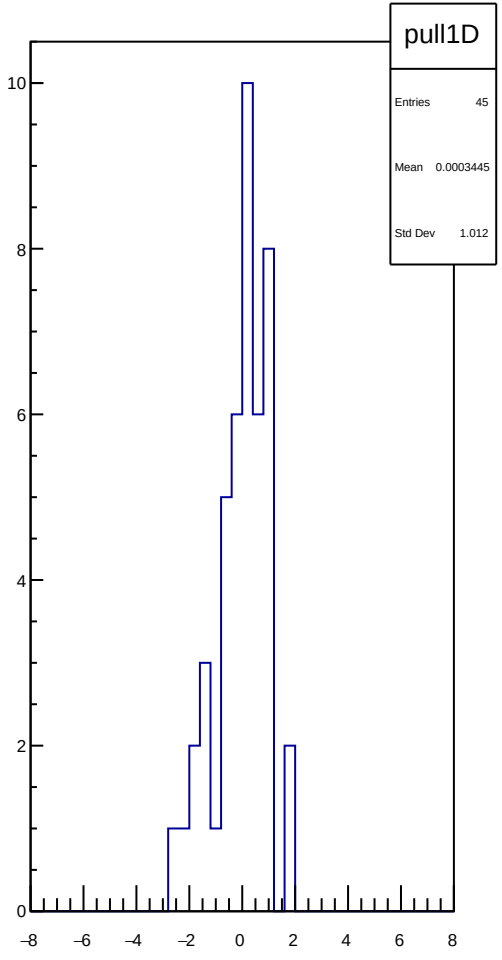

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3203 / 44
p0 1444 ± 1.543
1600
1500
1400
1300
1200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

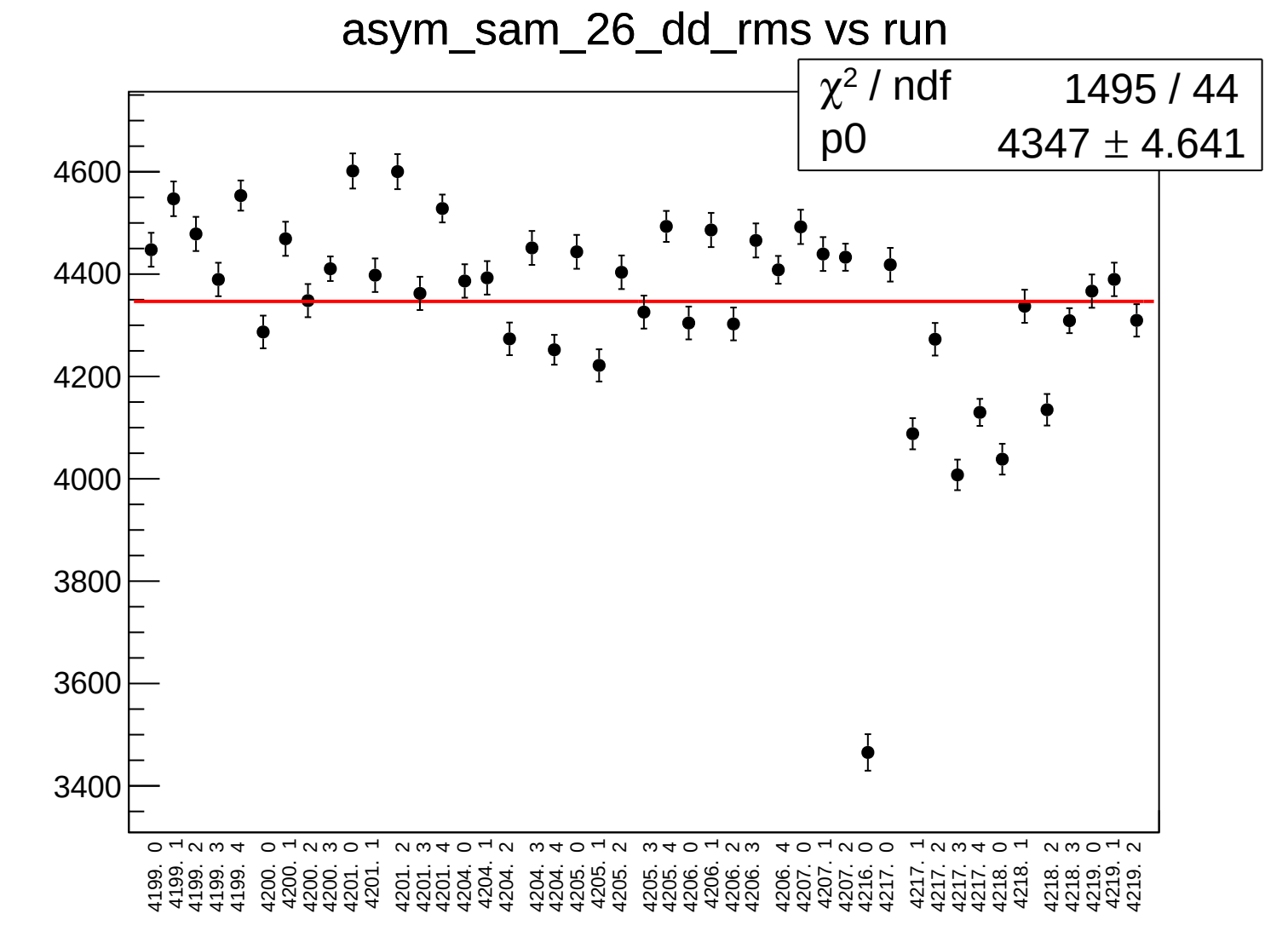

asym_sam_15_dd_mean vs run
χ² / ndf 40.65 / 44
p0 2187 ± 2368
60000
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 2080
Std Dev 2053
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

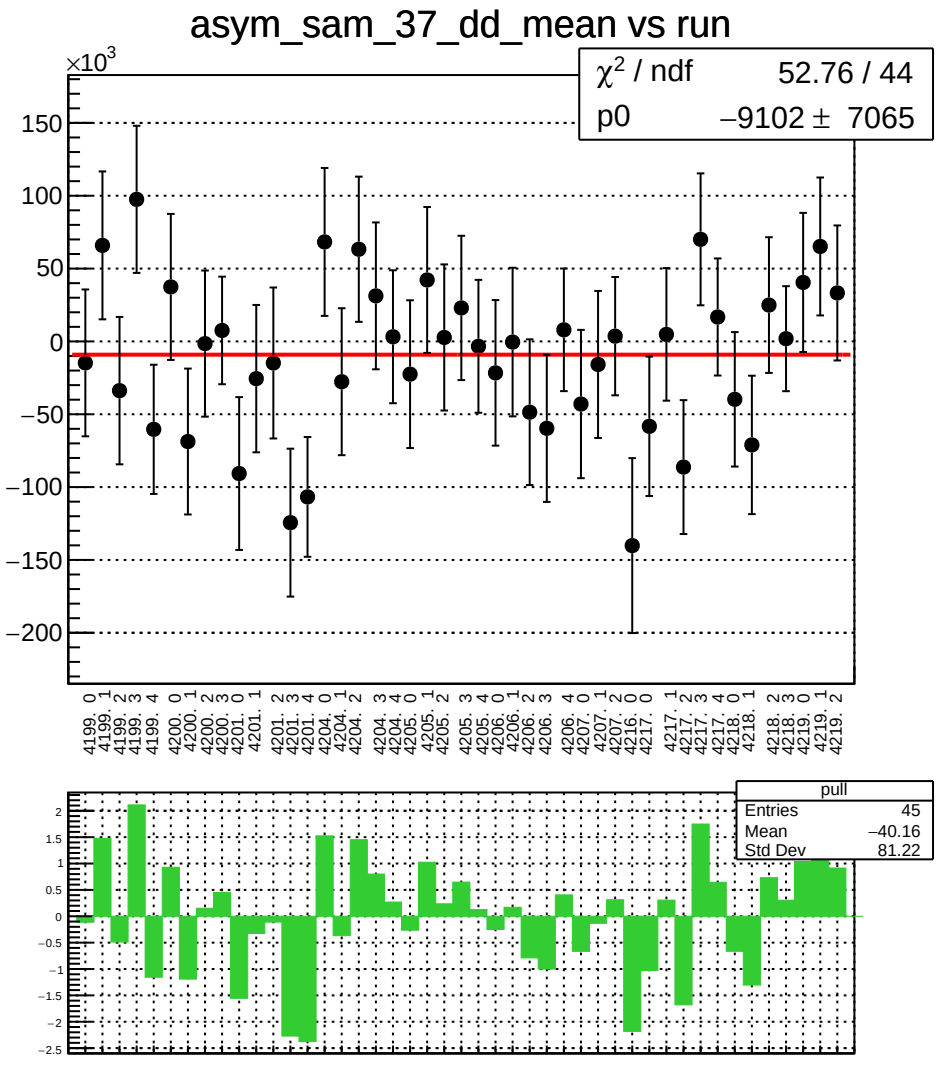

pull1D
Entries 45
Mean −0.0006217
Std Dev 0.9504
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

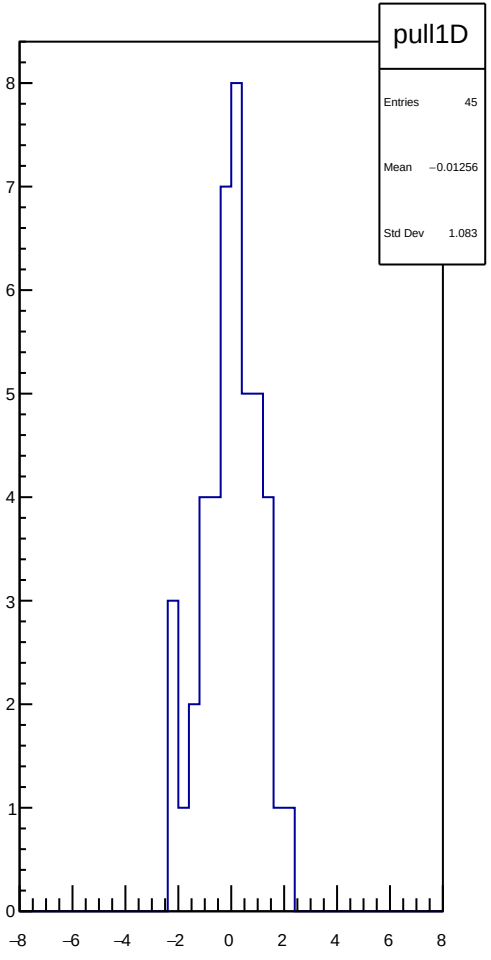

asym_sam_15_dd_rms vs run
χ² / ndf 1.416e+04 / 44
p0 1557 ± 1.675
2000
1800
1600
1400
1200
1000
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

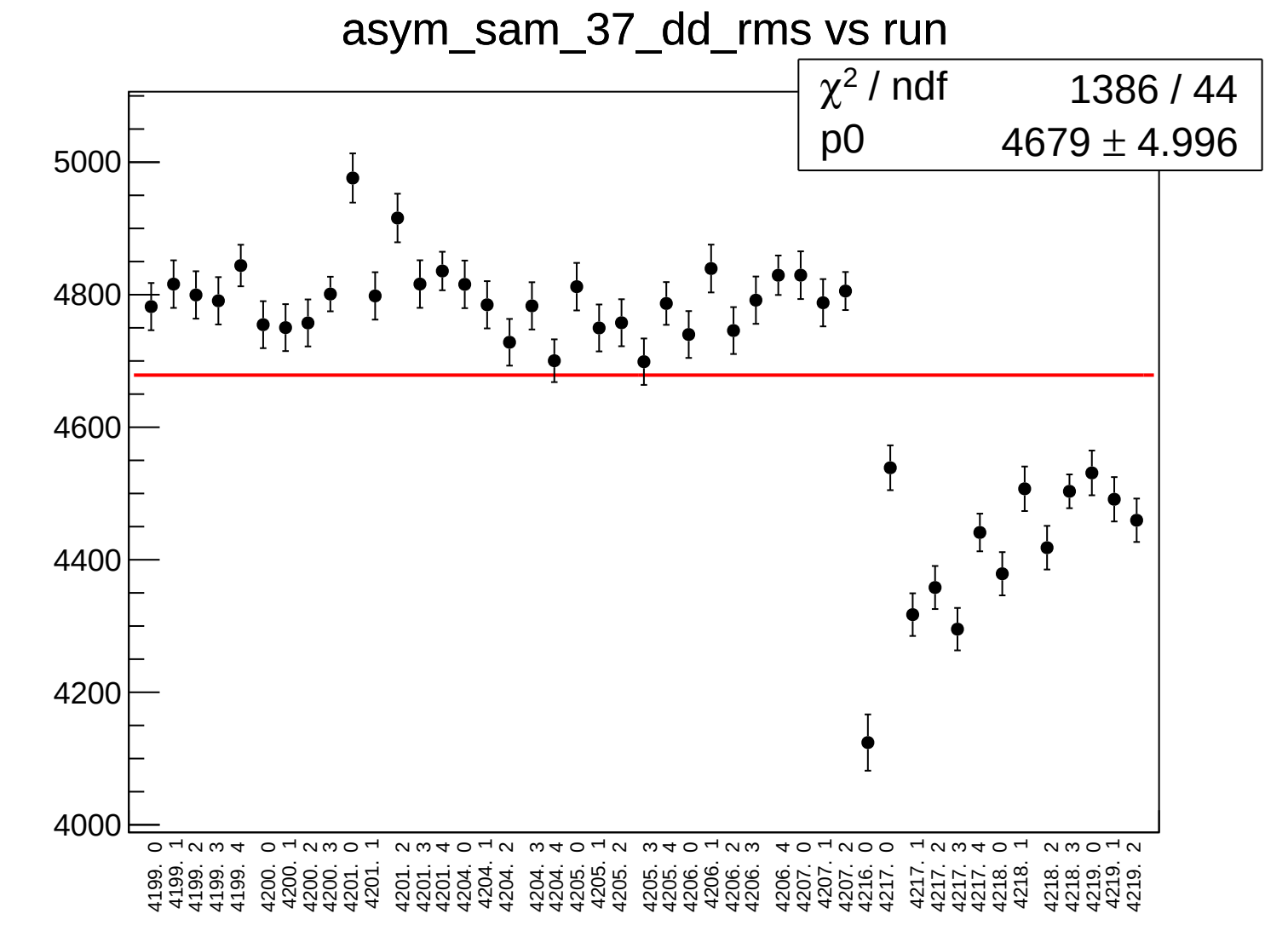

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 46.07 / 44
p0 −9242 ± 6564
150
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1050
Std Dev 1035
2
1
0
−1
−2
−3

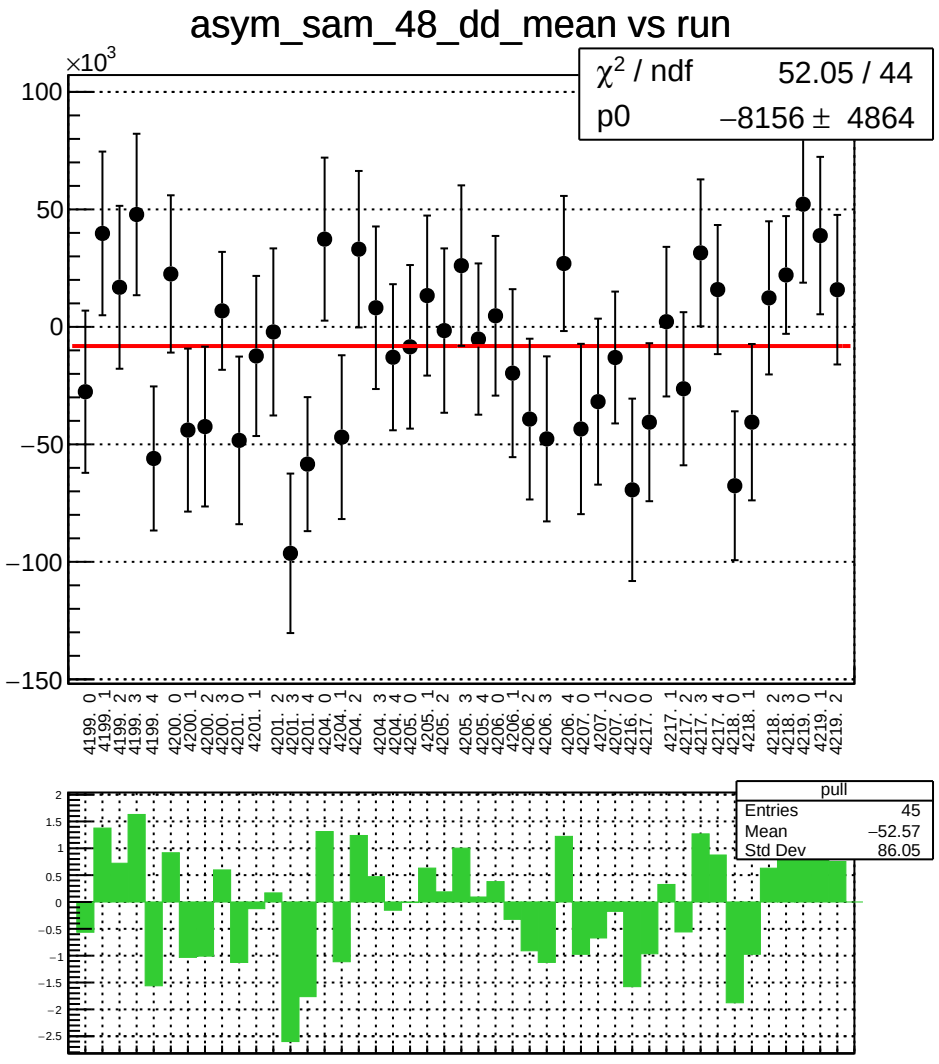

pull1D
Entries 45
Mean 0.0003445
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

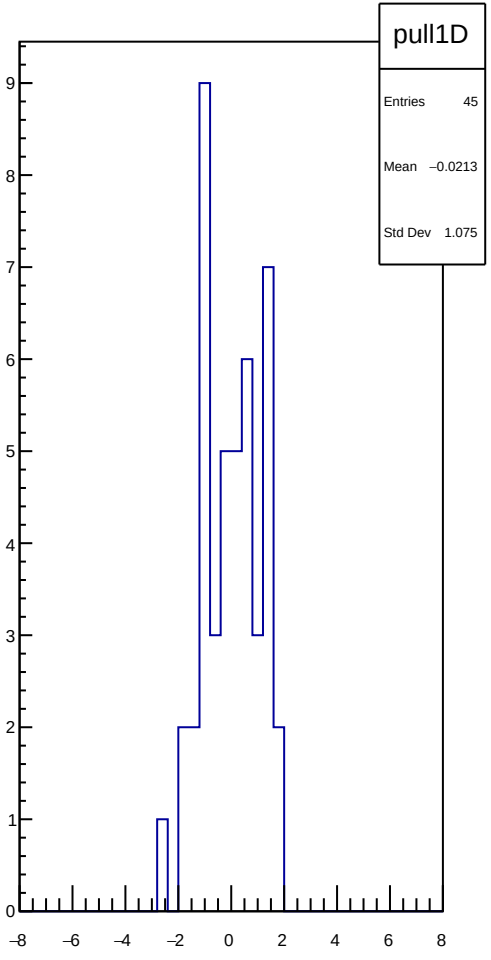

asym_sam_26_dd_rms vs run
χ² / ndf 1495 / 44
p0 4347 ± 4.641
4600
4400
4200
4000
3800
3600
3400
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

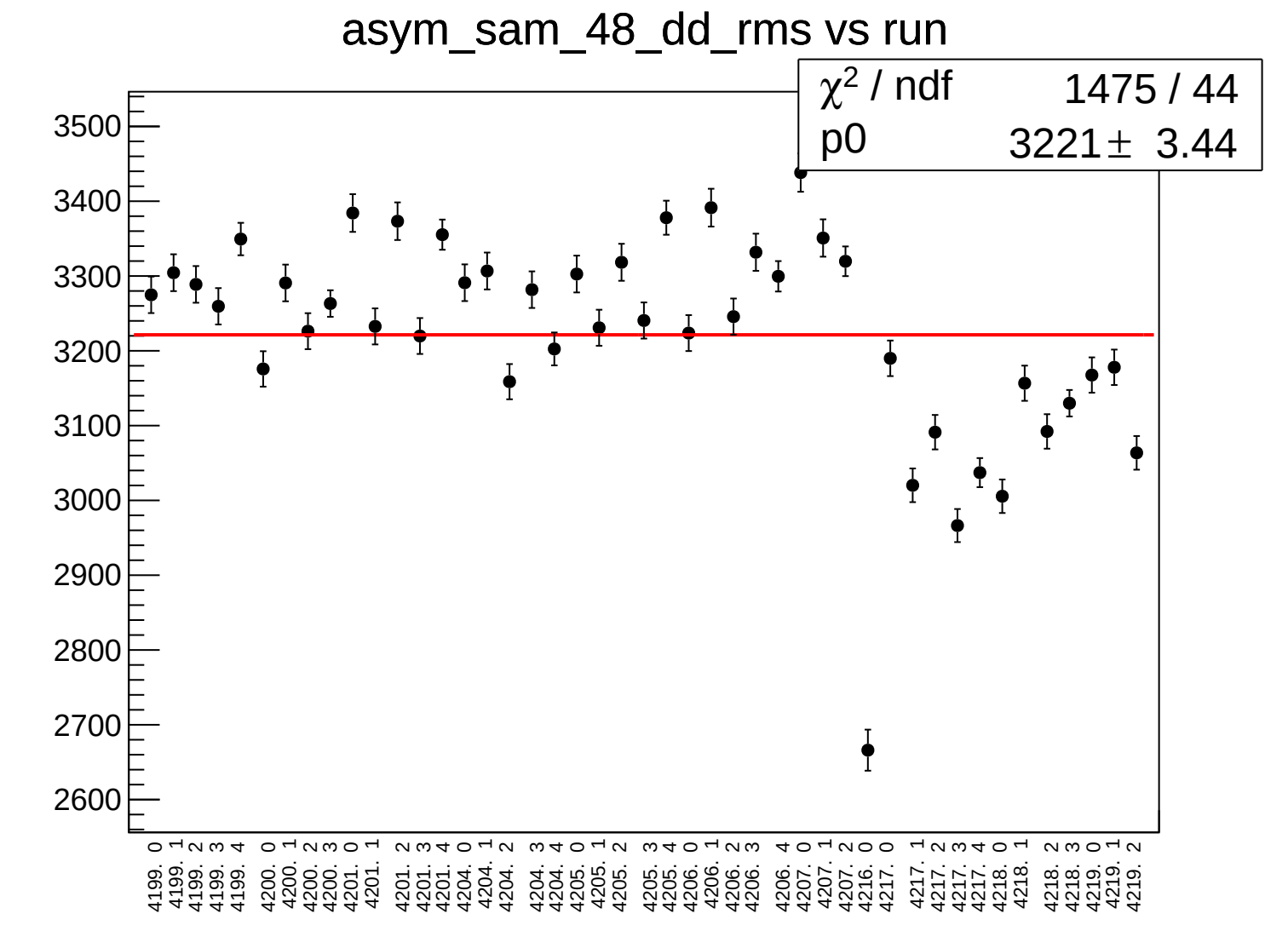

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 52.76 / 44
p0 −9102 ± 7065
150
100
50
0
−50
−100
−150
−200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −40.16
Std Dev 81.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

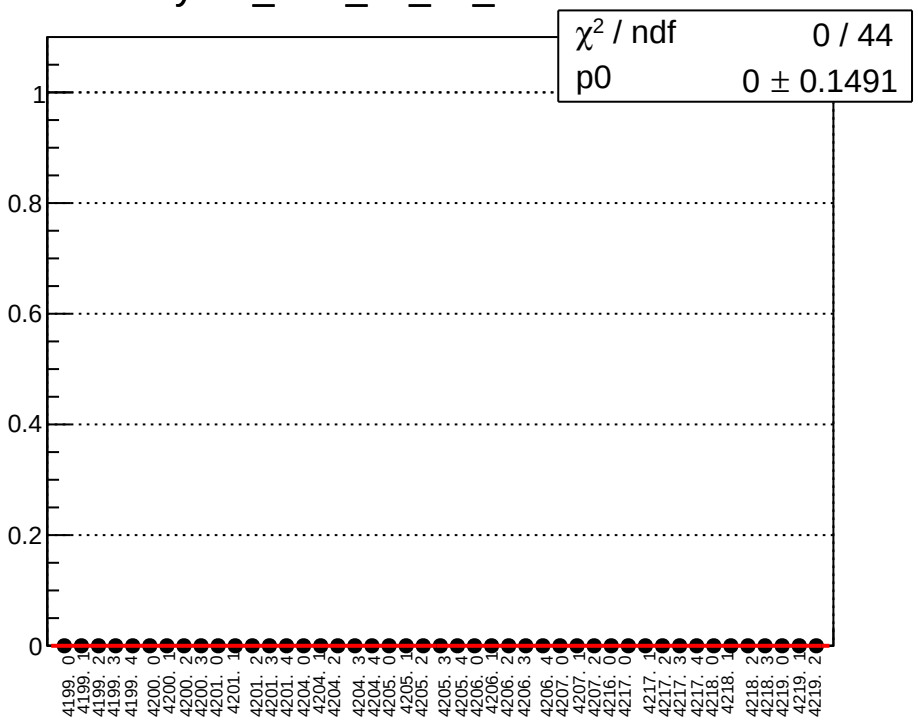

pull1D
Entries 45
Mean −0.01256
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

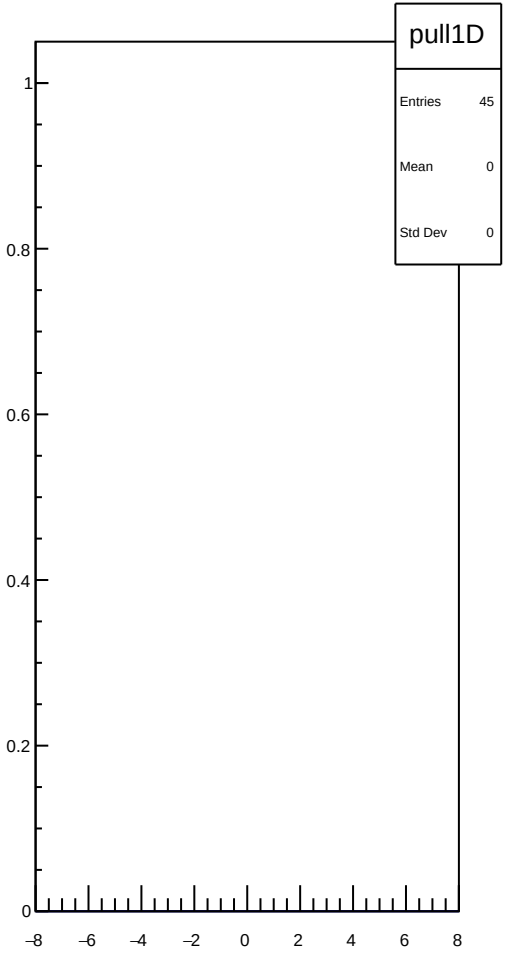

asym_sam_37_dd_rms vs run
χ² / ndf 1386 / 44
p0 4679 ± 4.996
5000
4800
4600
4400
4200
4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

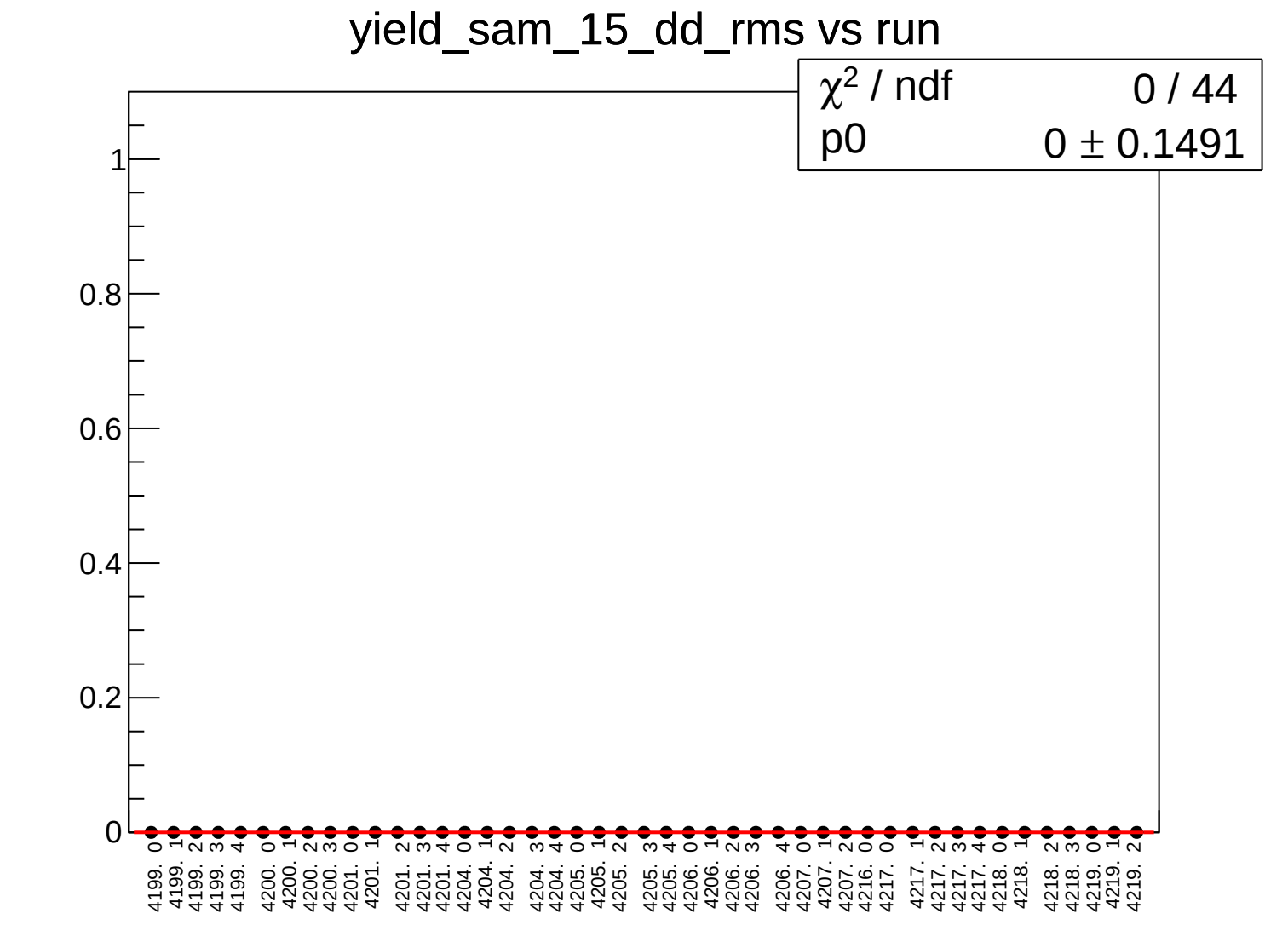

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 52.05 / 44
p0 −8156 ± 4864
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −52.57
Std Dev 86.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

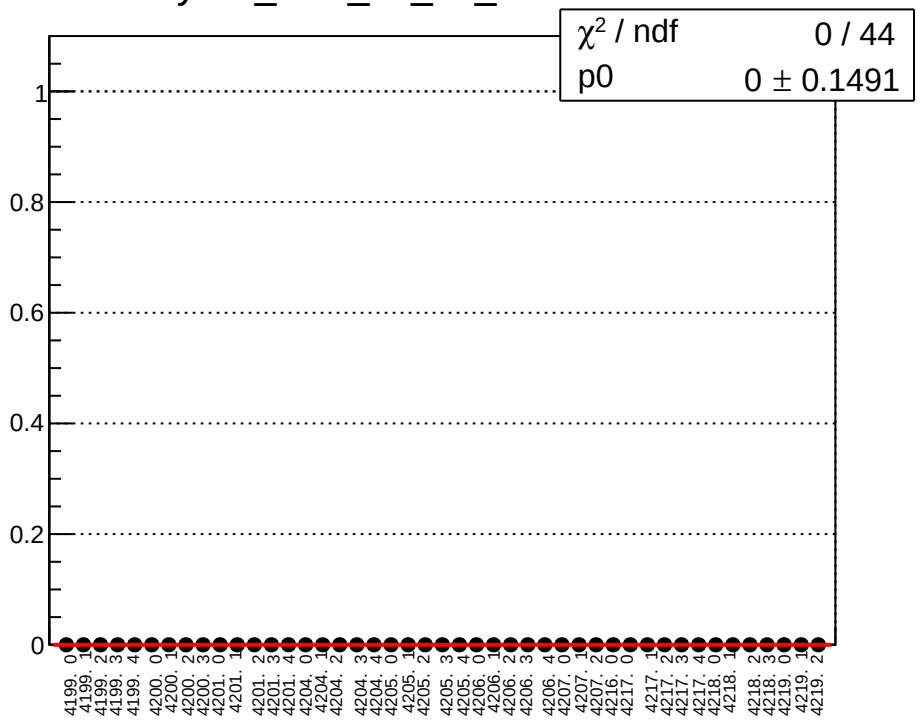

pull1D
Entries 45
Mean −0.0213
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

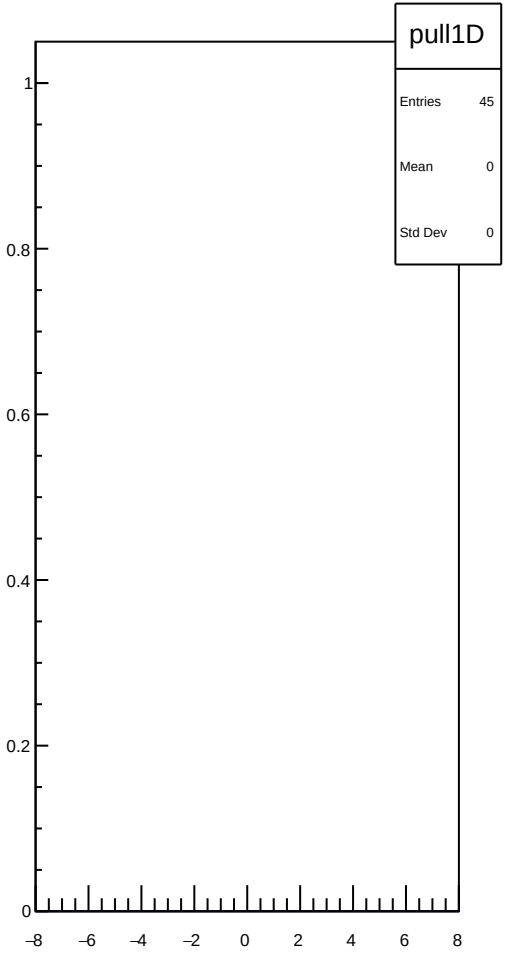

asym_sam_48_dd_rms vs run
χ² / ndf 1475 / 44
p0 3221 ± 3.44
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

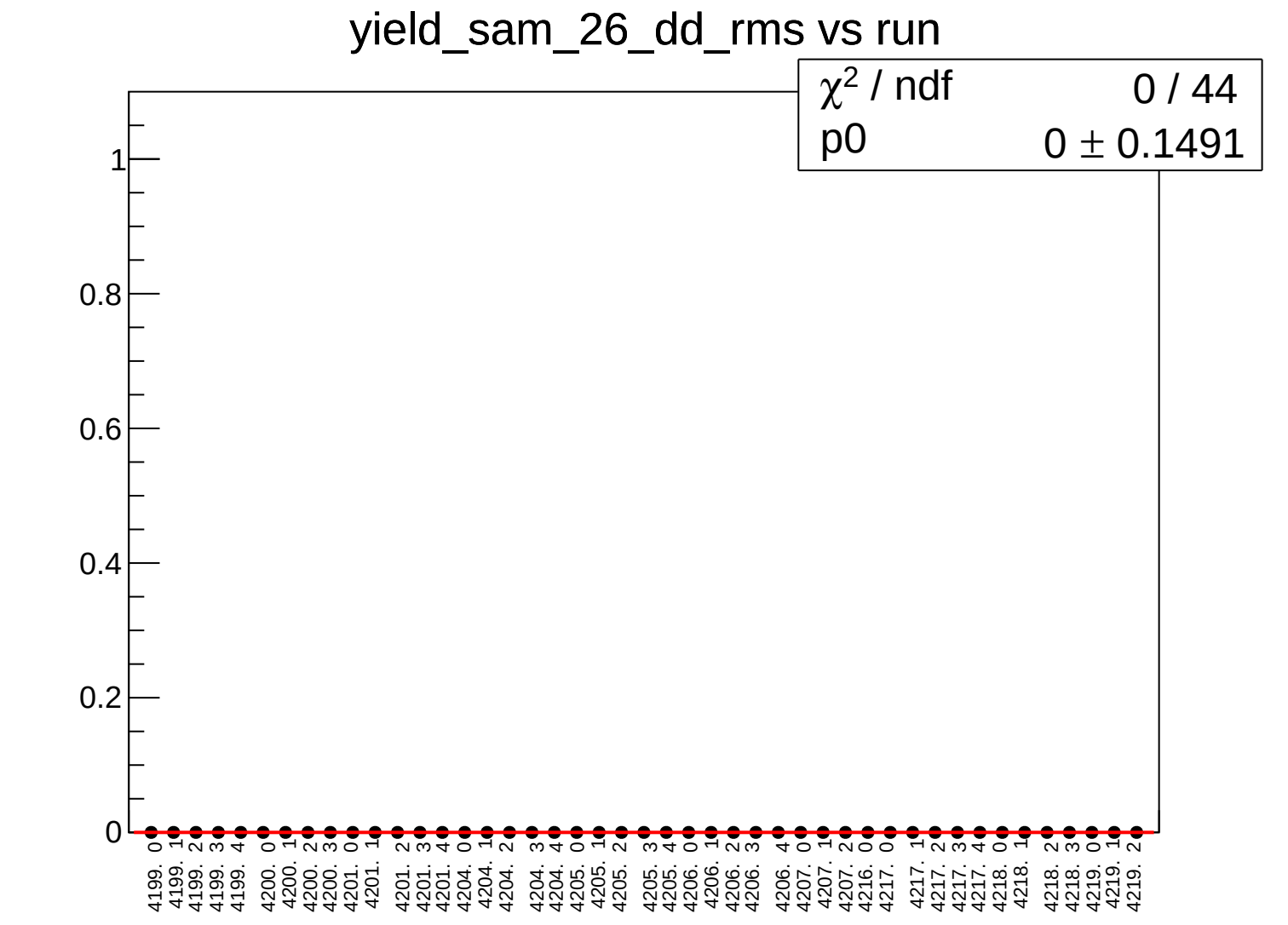

yield_sam_15_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

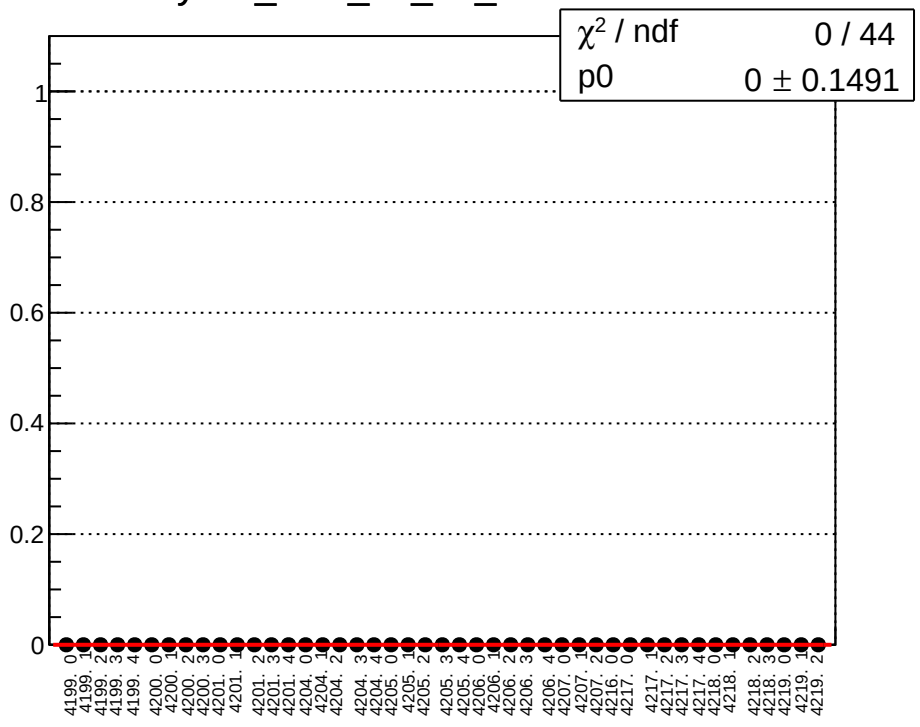

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

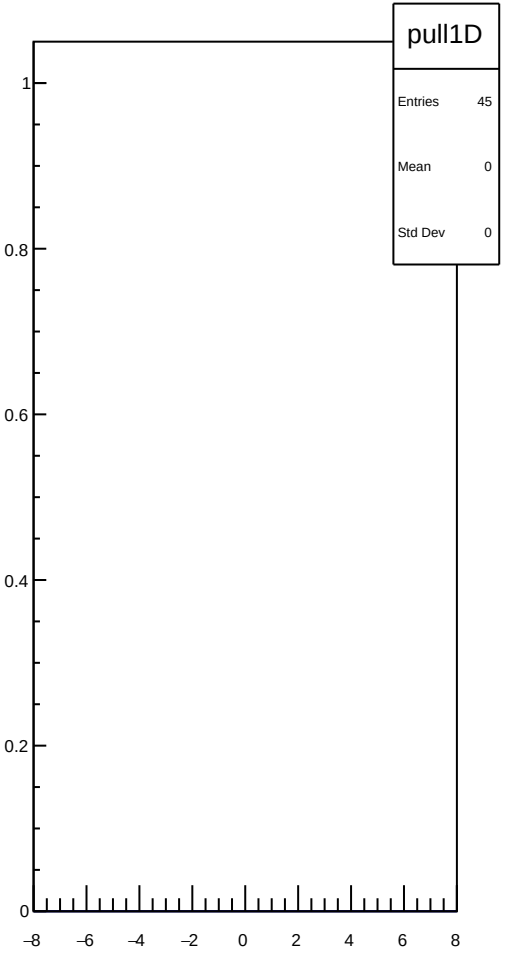

yield_sam_15_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

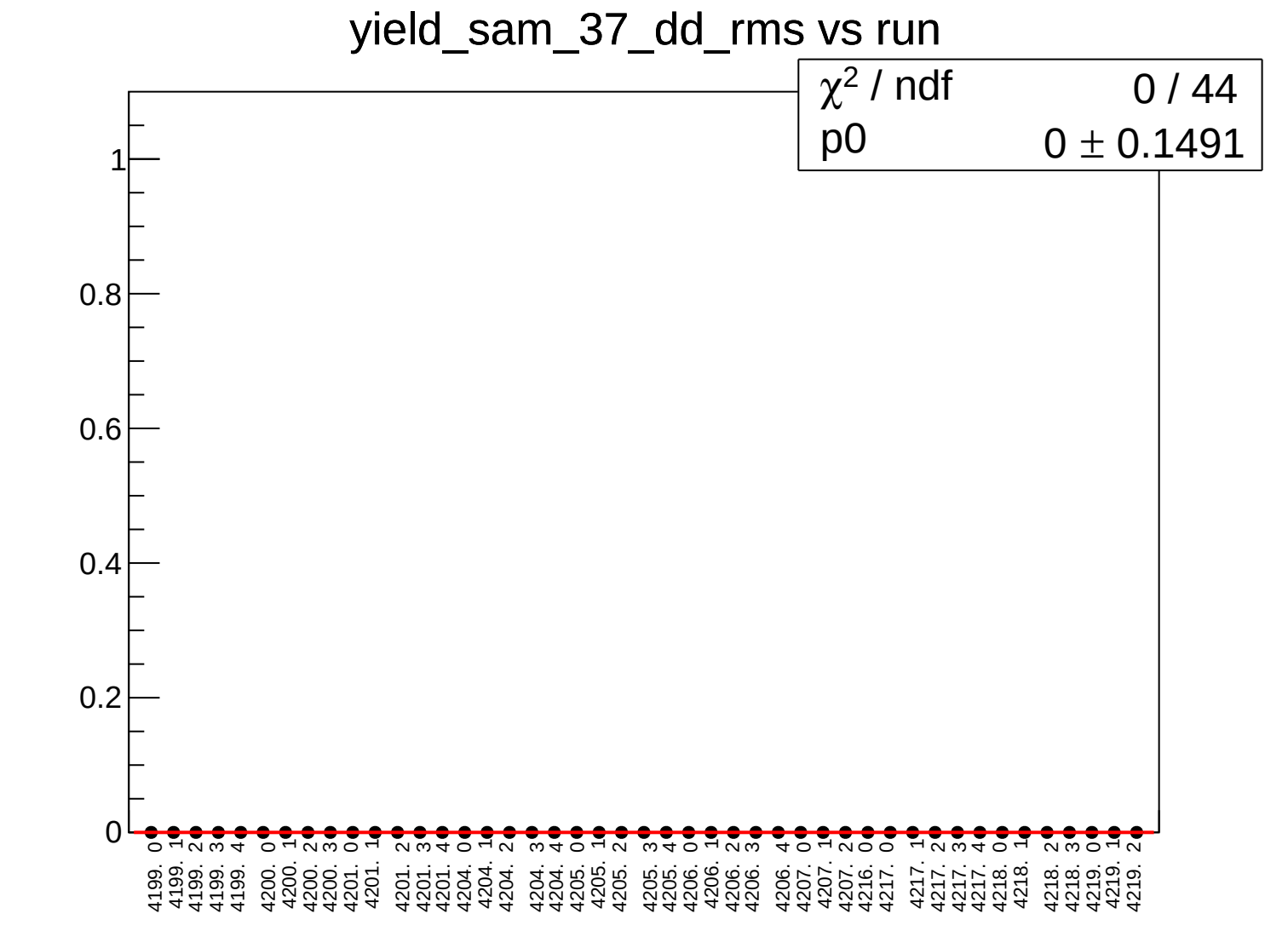

yield_sam_26_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

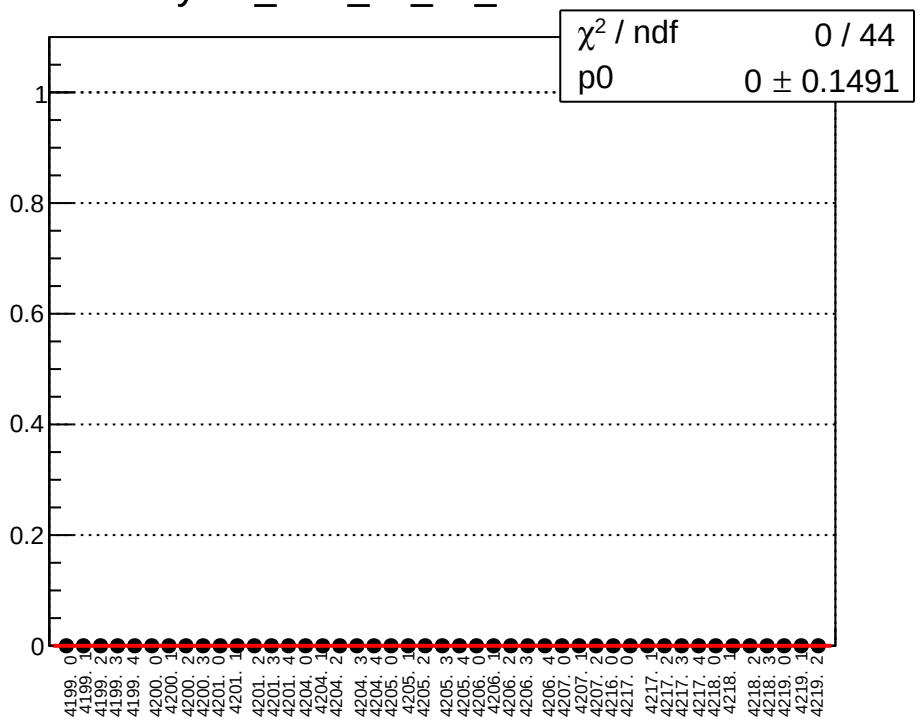

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

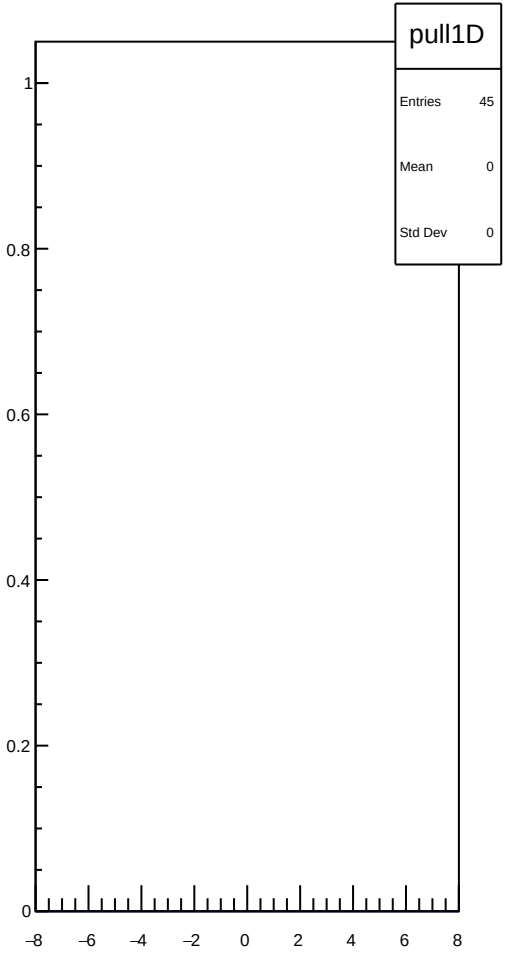

yield_sam_26_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

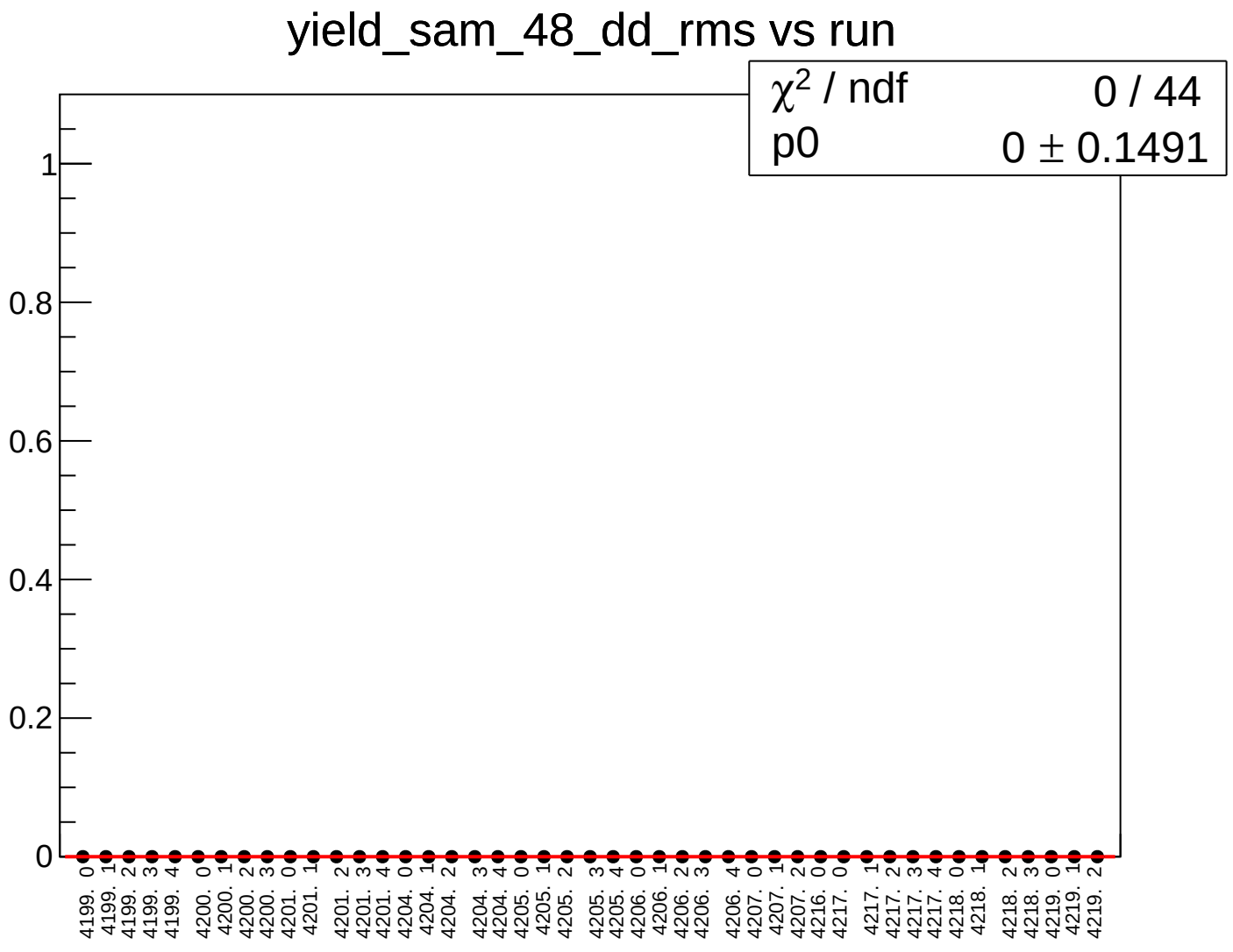

yield_sam_37_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

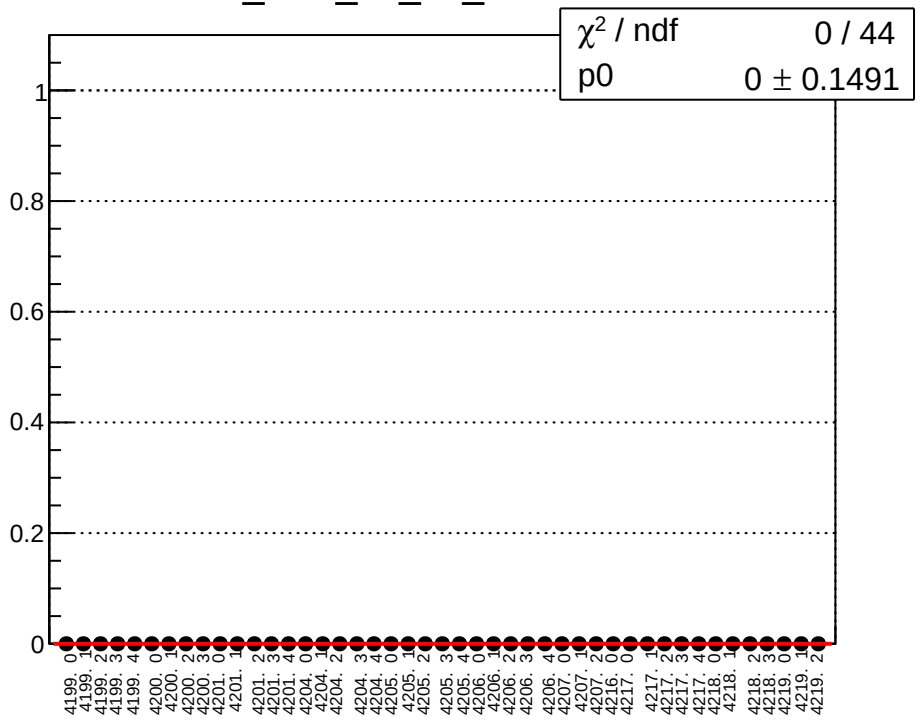

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

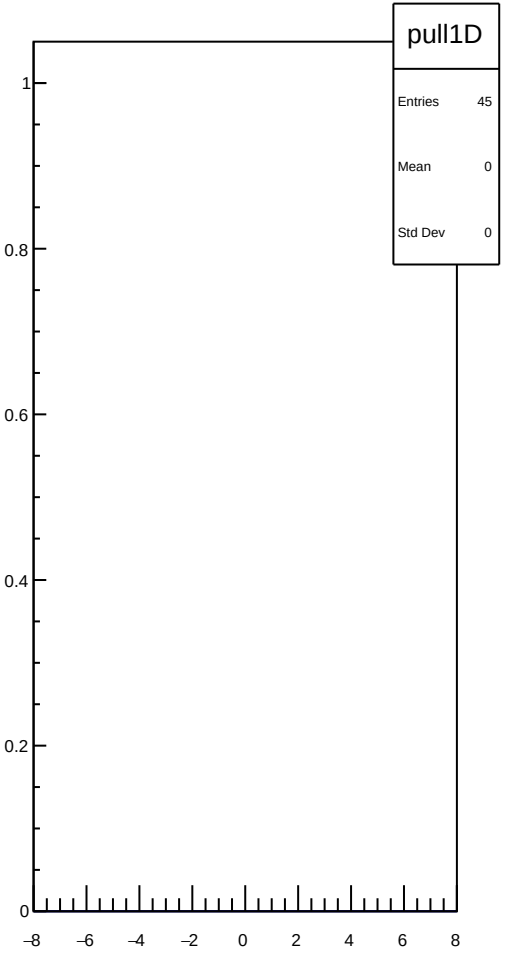

yield_sam_37_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

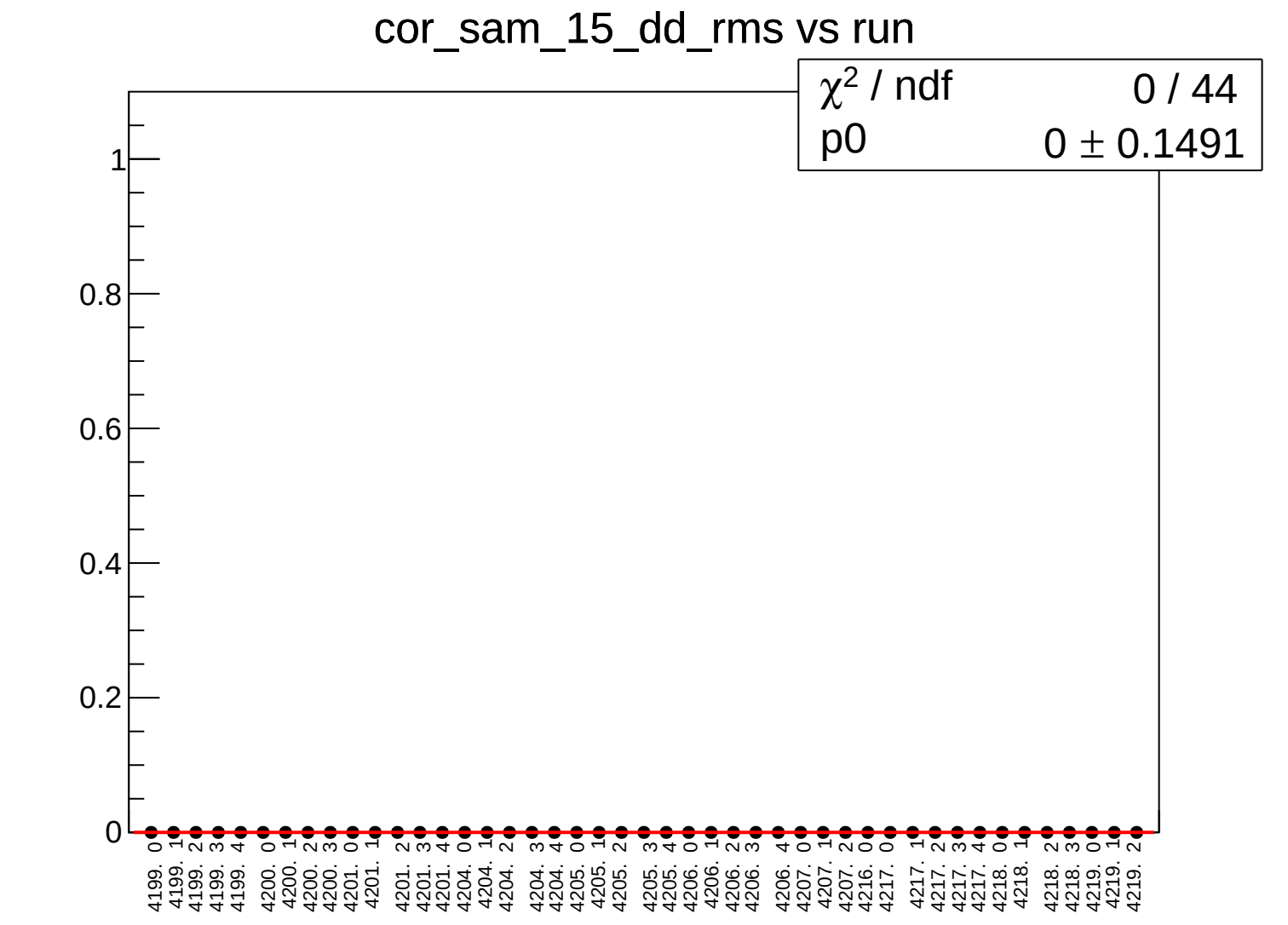

yield_sam_48_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

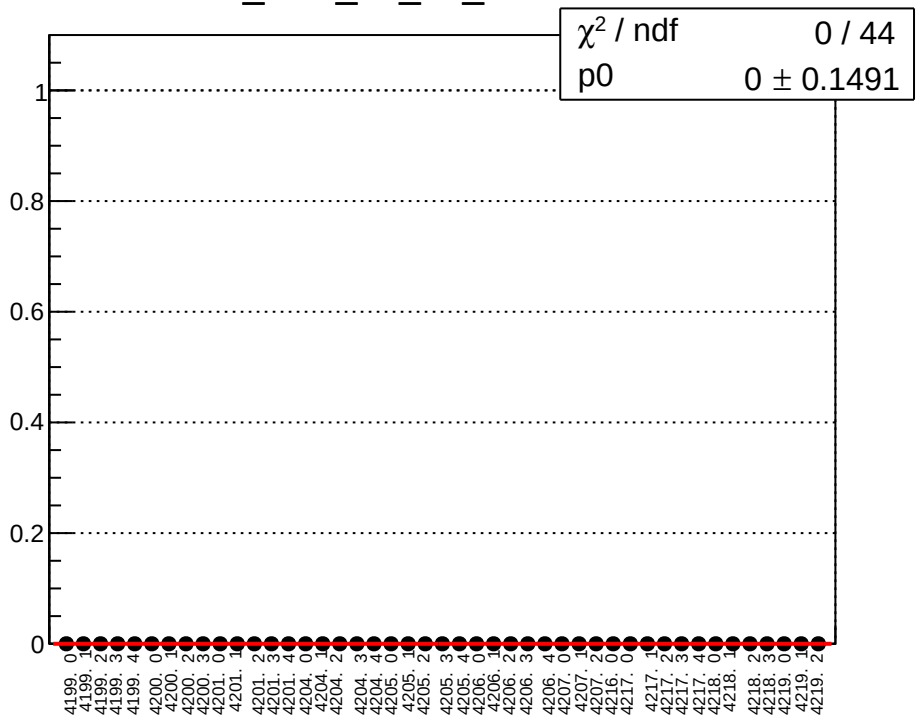

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

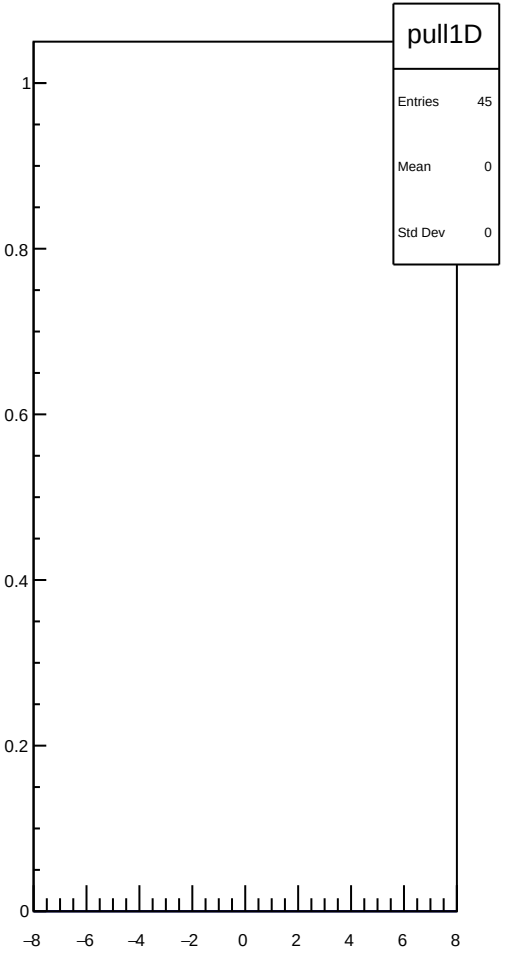

yield_sam_48_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

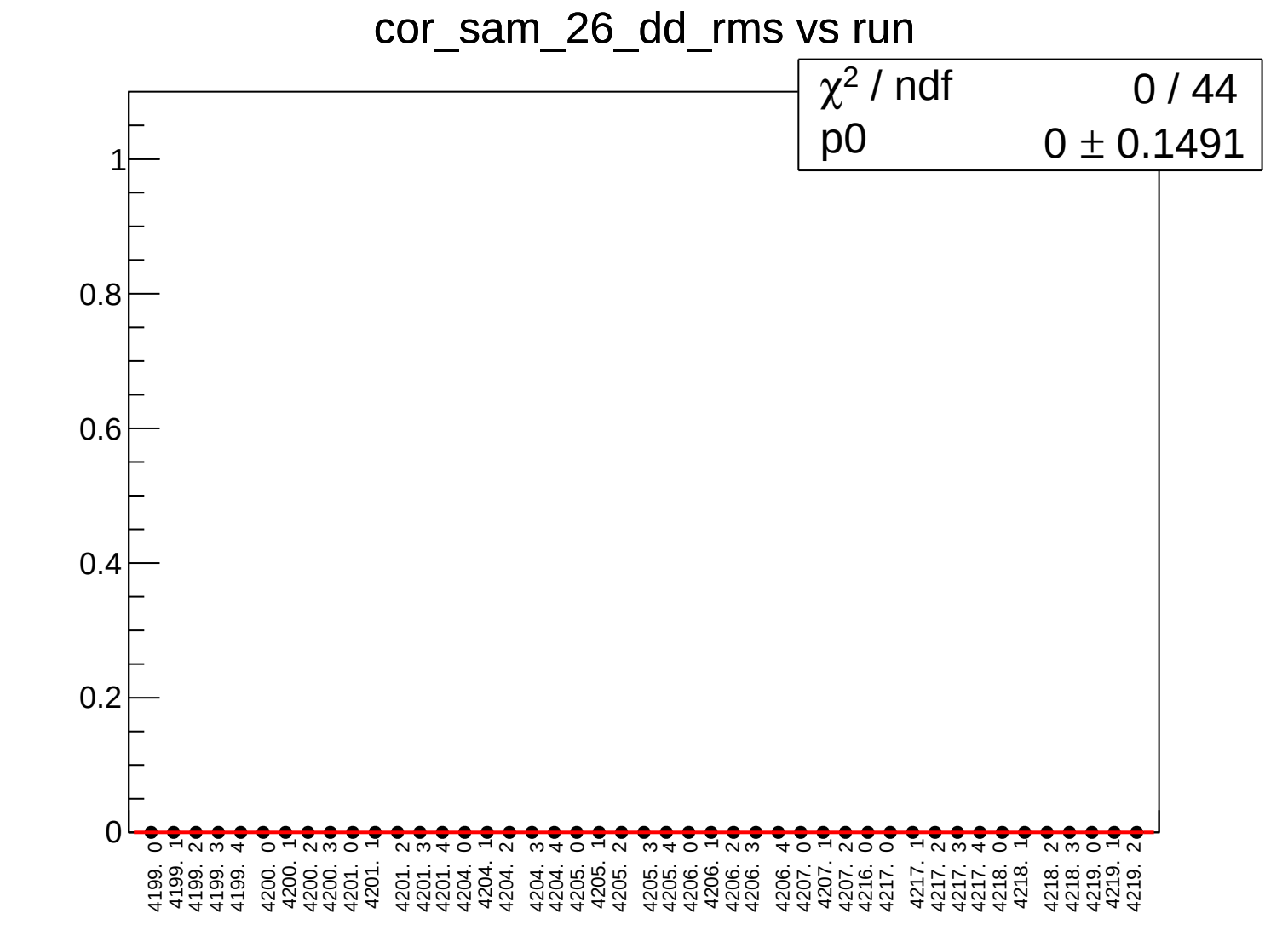

cor_sam_15_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

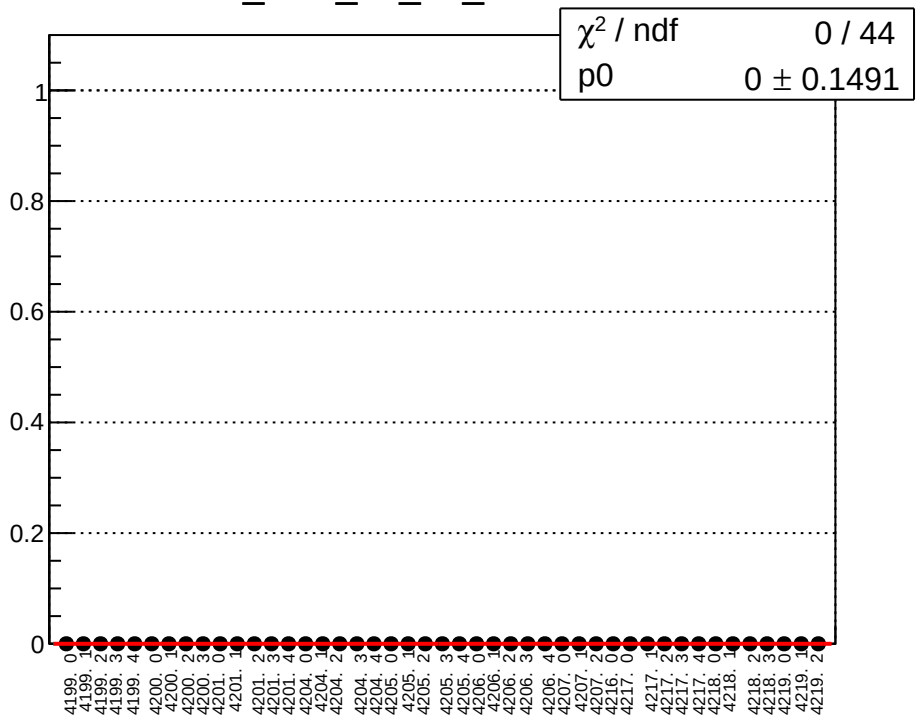

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

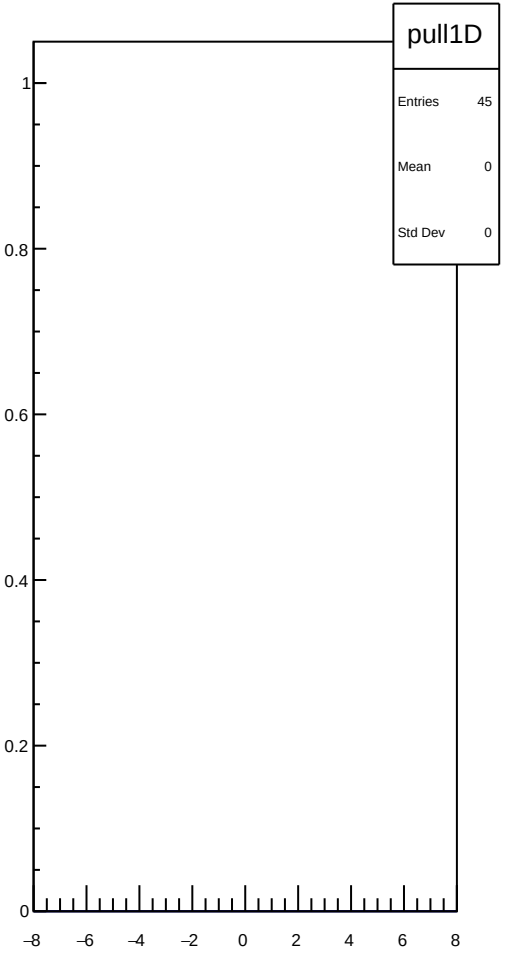

cor_sam_15_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

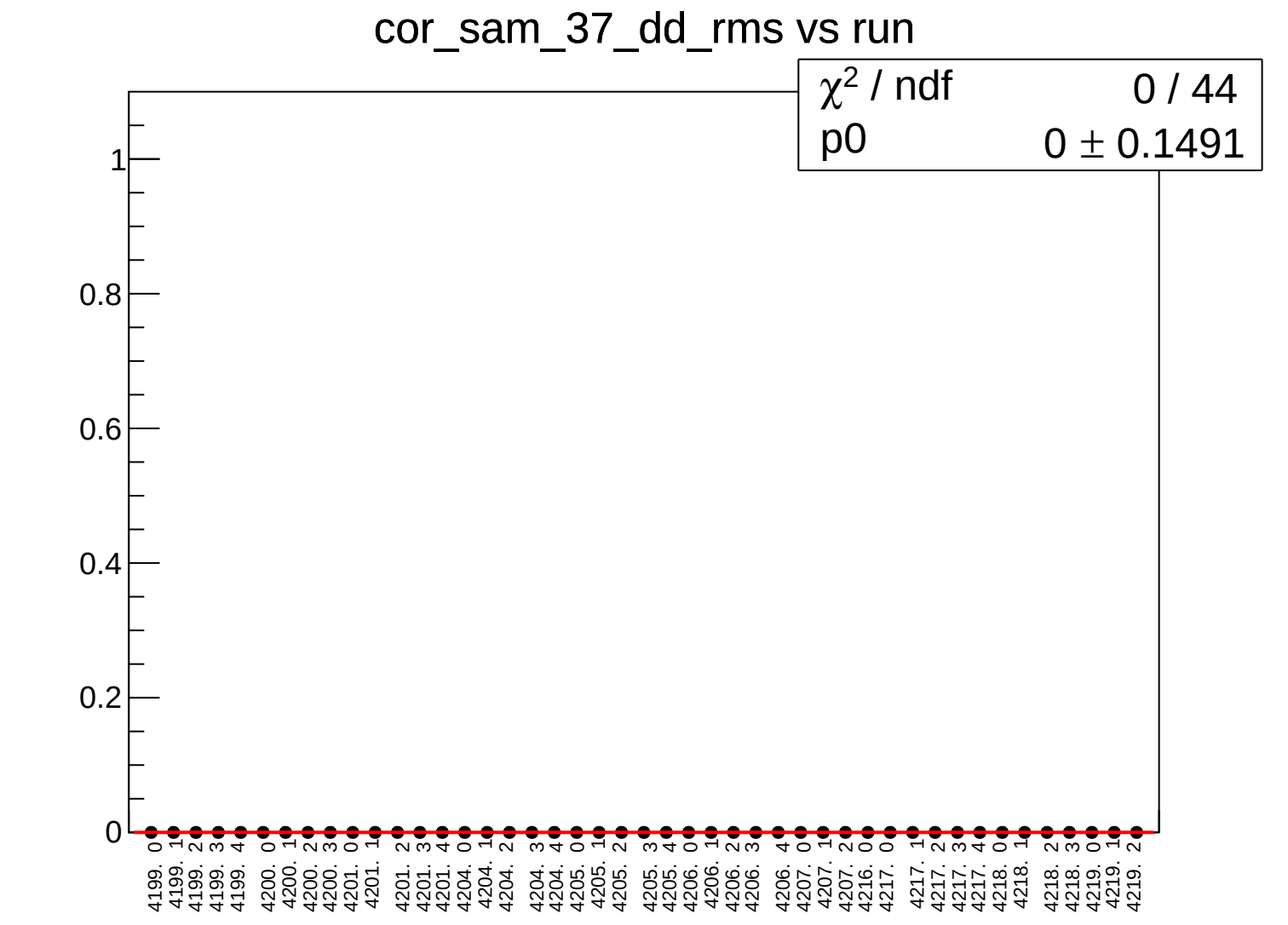

cor_sam_26_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

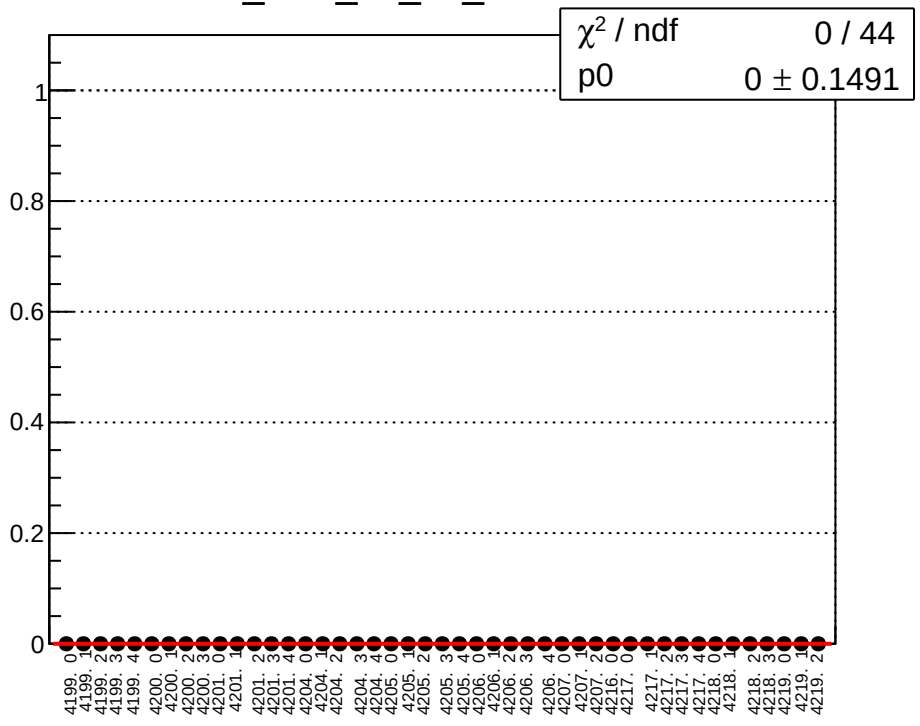

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

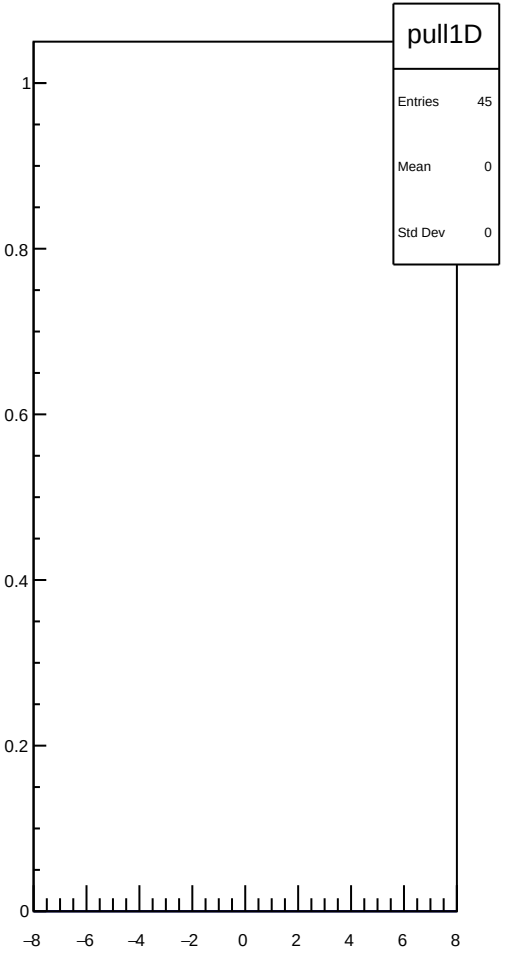

cor_sam_26_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

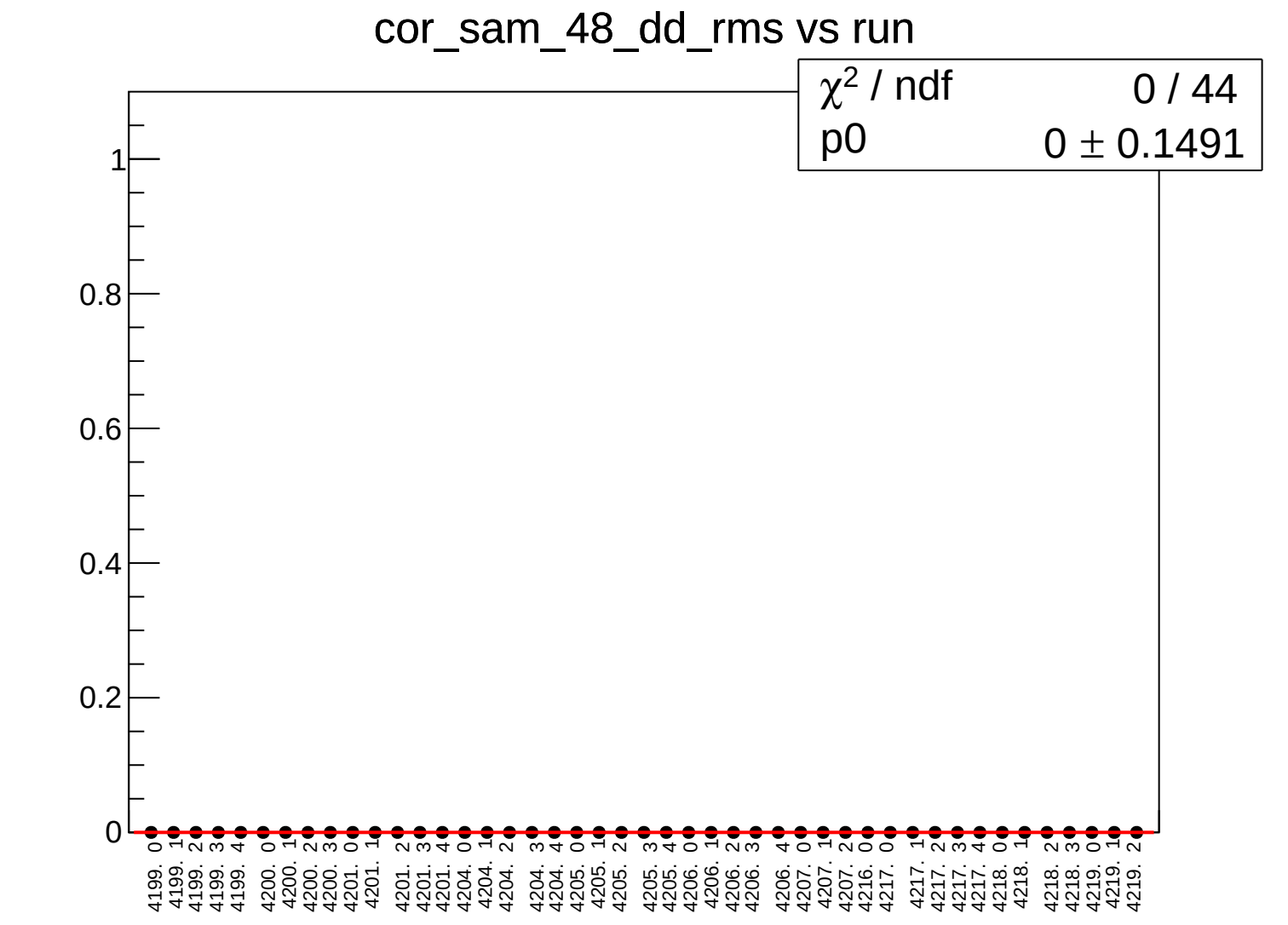

cor_sam_37_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

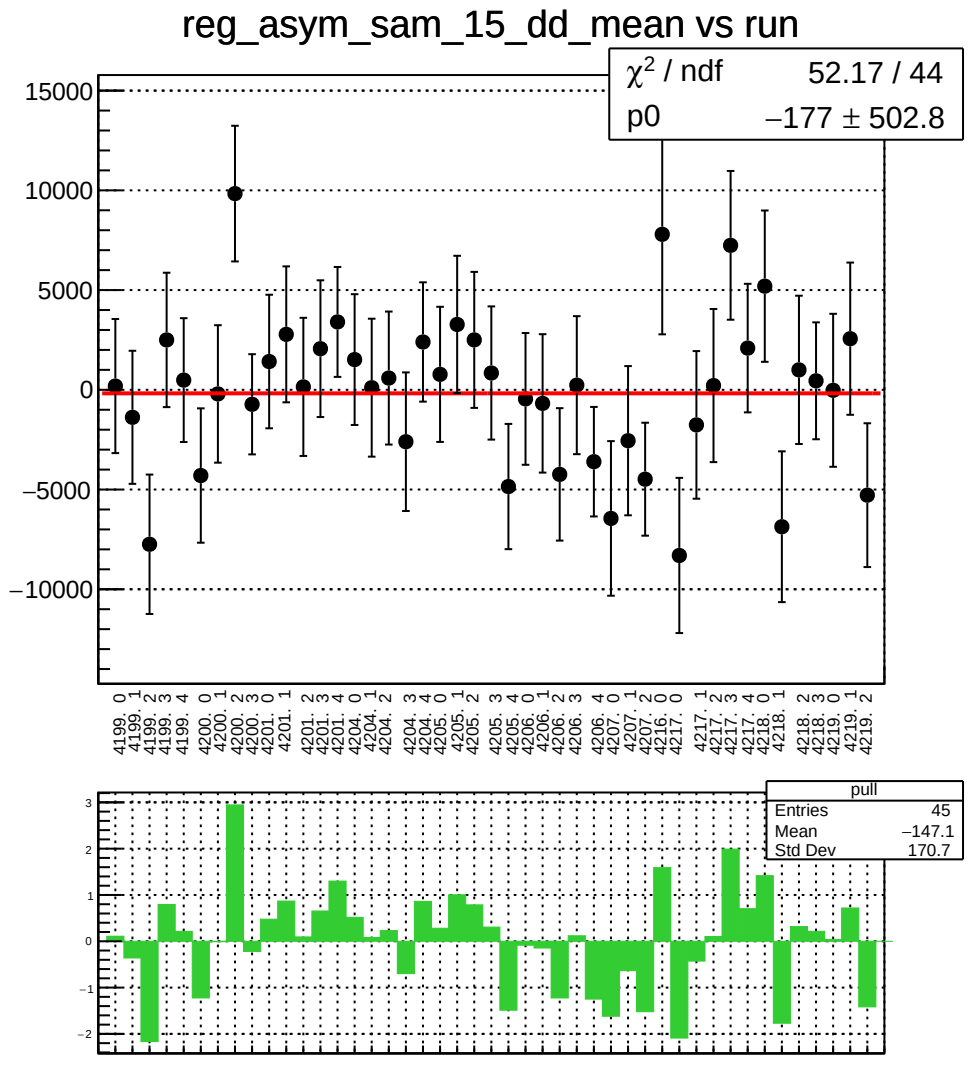

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

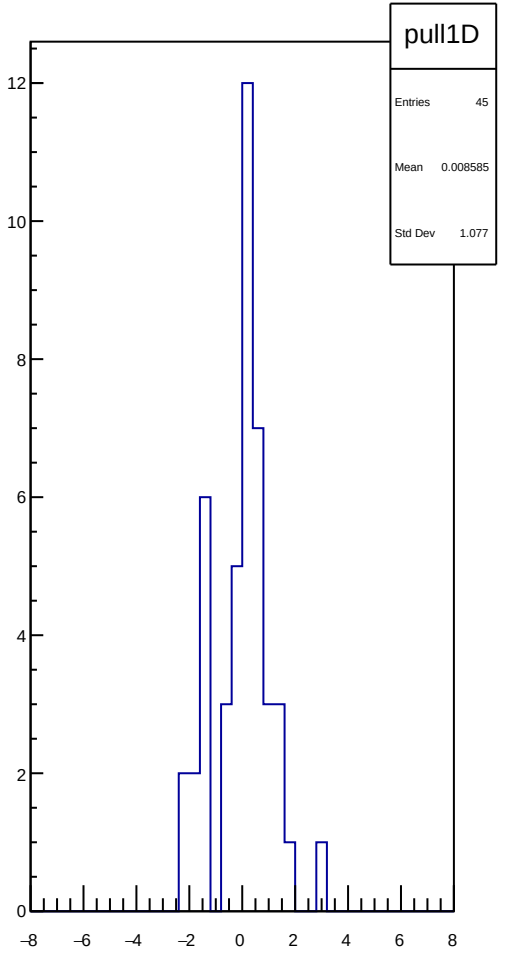

cor_sam_37_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

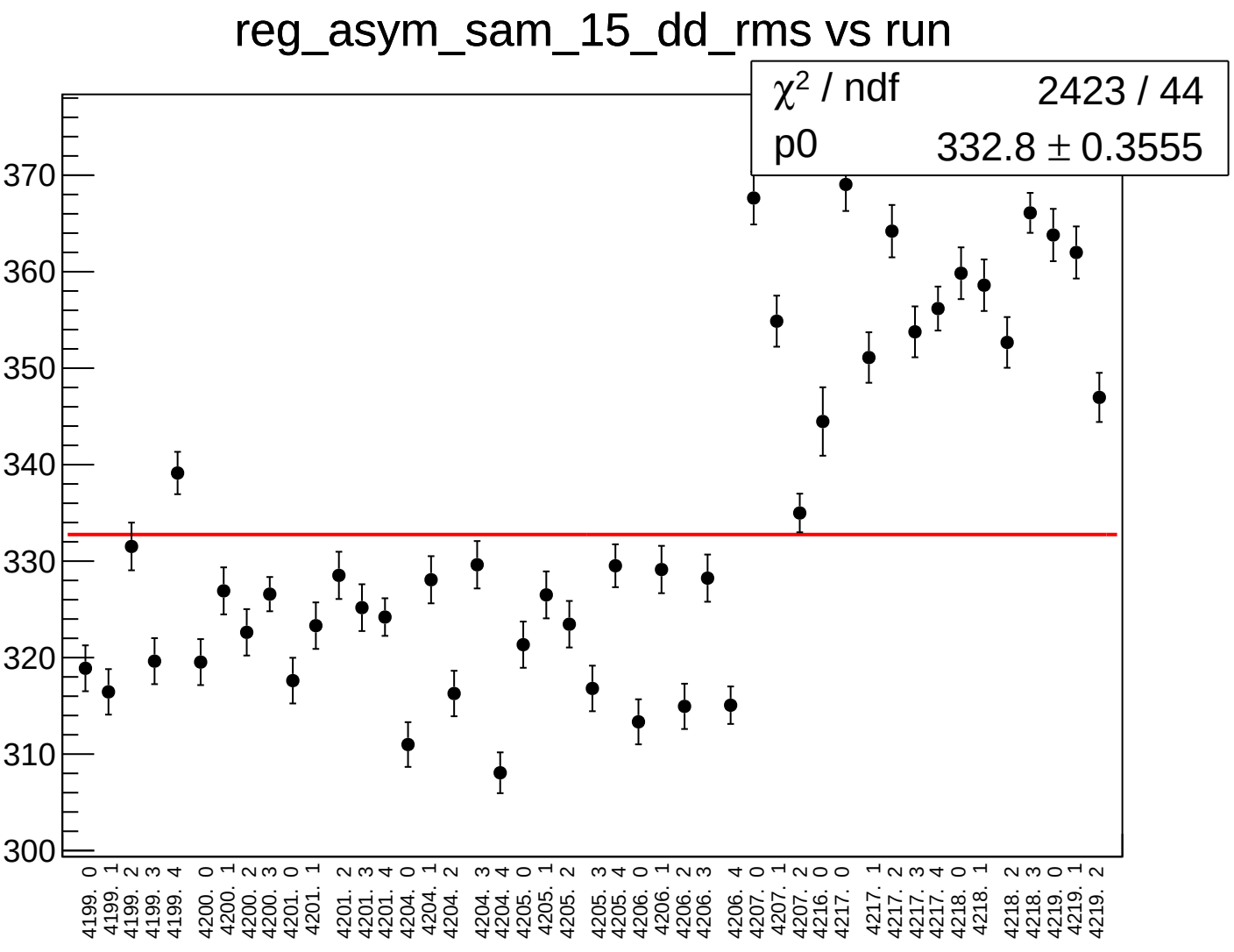

cor_sam_48_dd_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

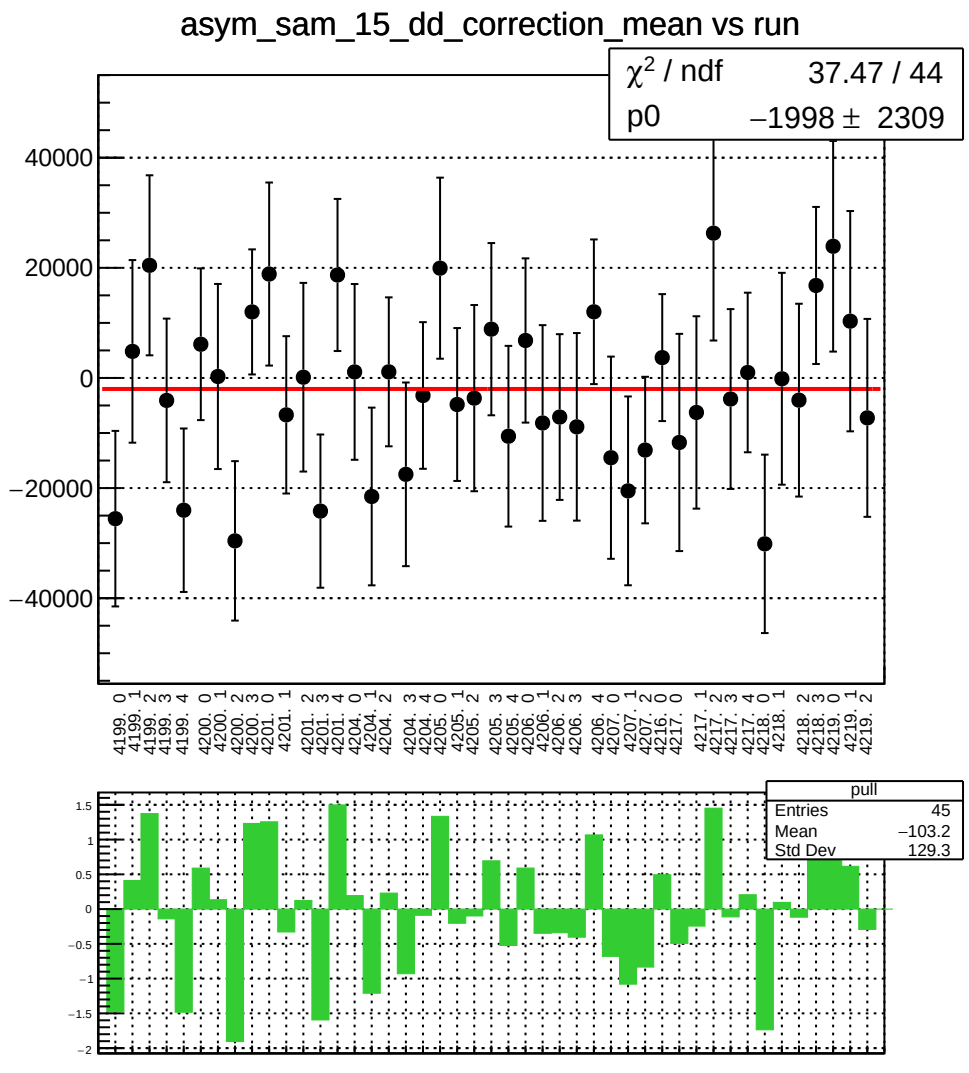

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

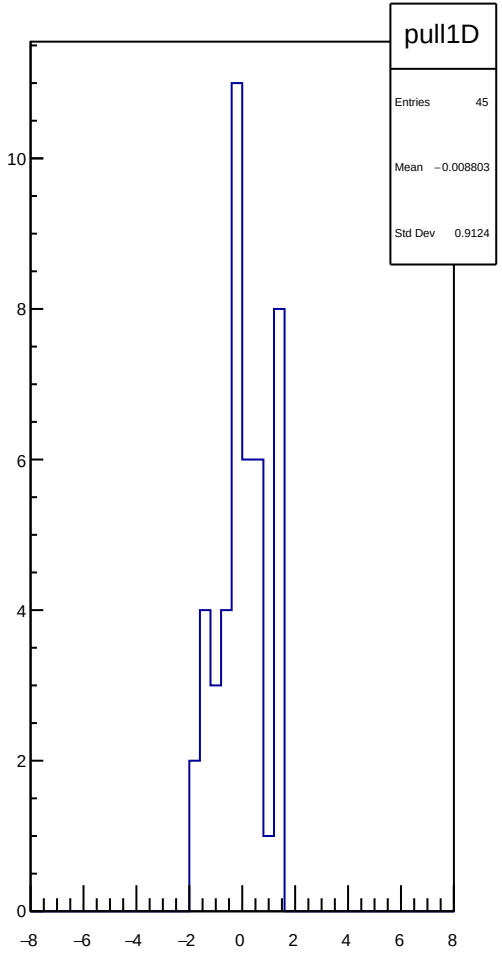

cor_sam_48_dd_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

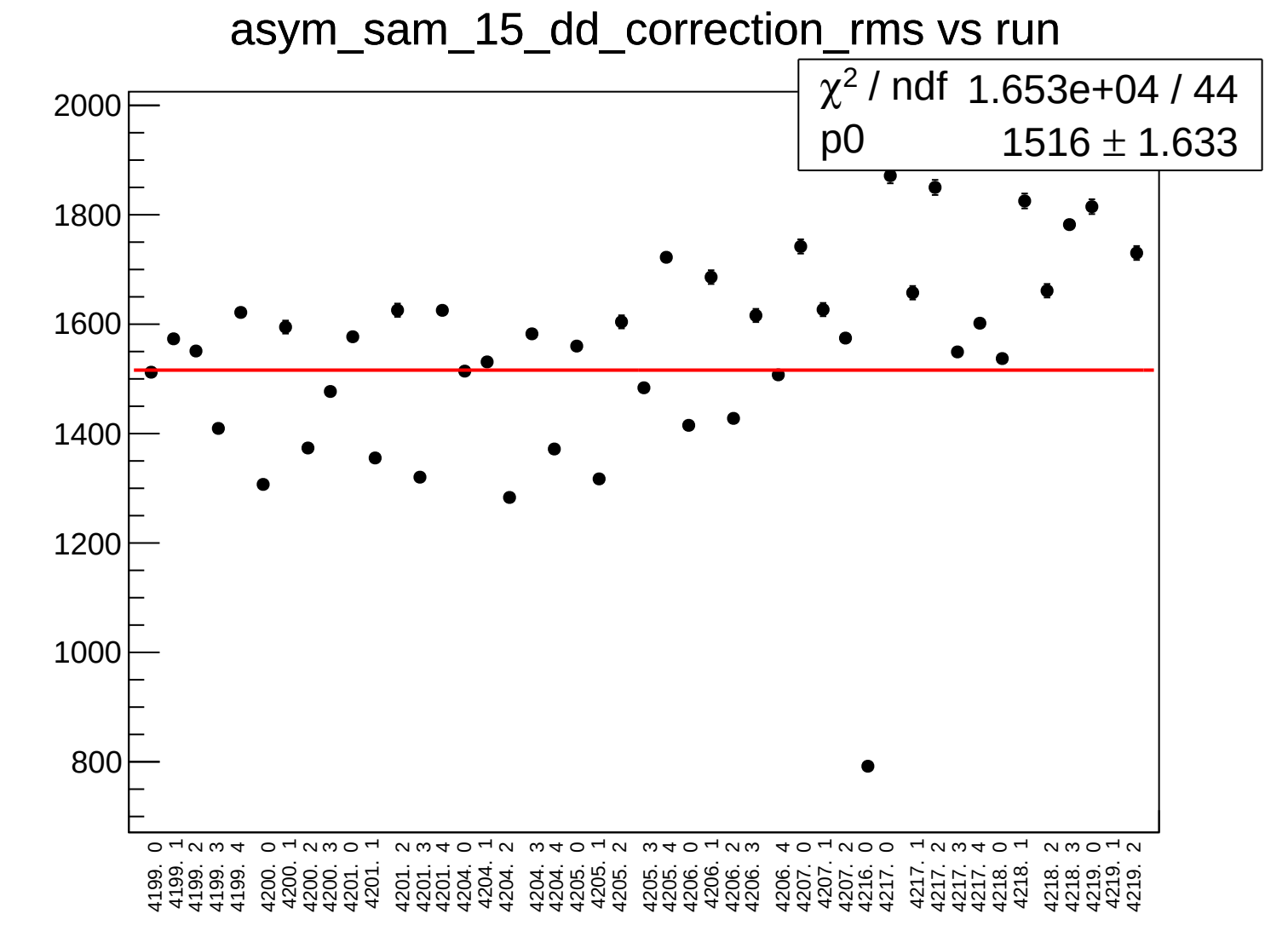

reg_asym_sam_15_dd_mean vs run
χ² / ndf 52.17 / 44
p0 −177 ± 502.8
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −147.1
Std Dev 170.7
3
2
1
0
−1
−2

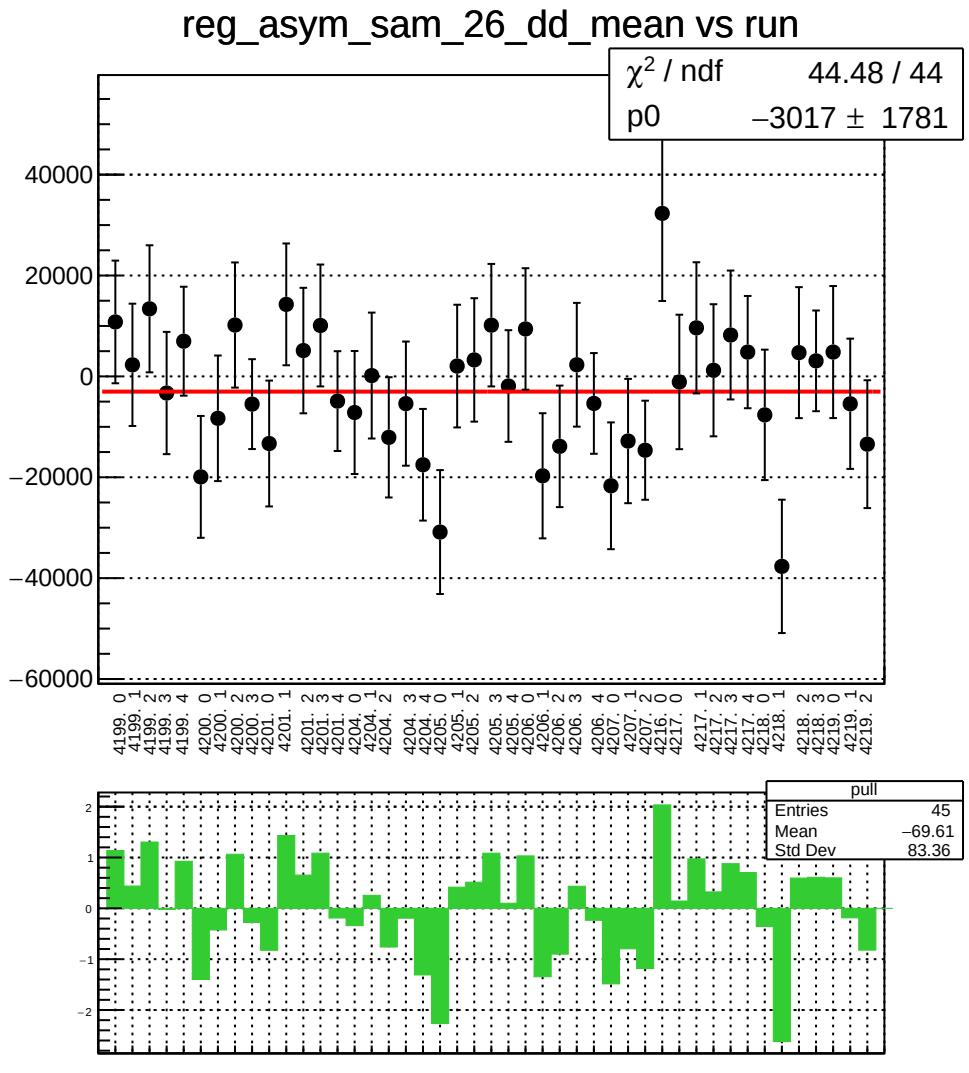

pull1D
Entries 45
Mean 0.008585
Std Dev 1.077
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

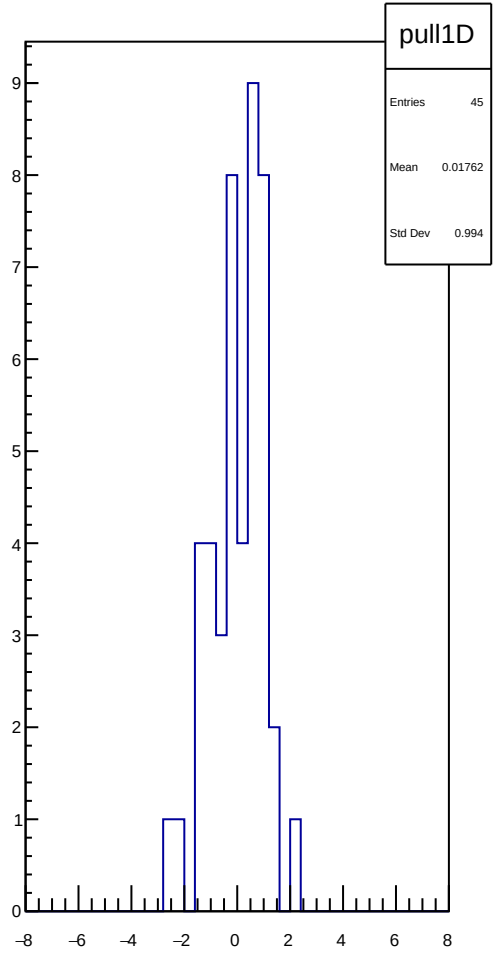

reg_asym_sam_15_dd_rms vs run
χ² / ndf 2423 / 44
p0 332.8 ± 0.3555
370
360
350
340
330
320
310
300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

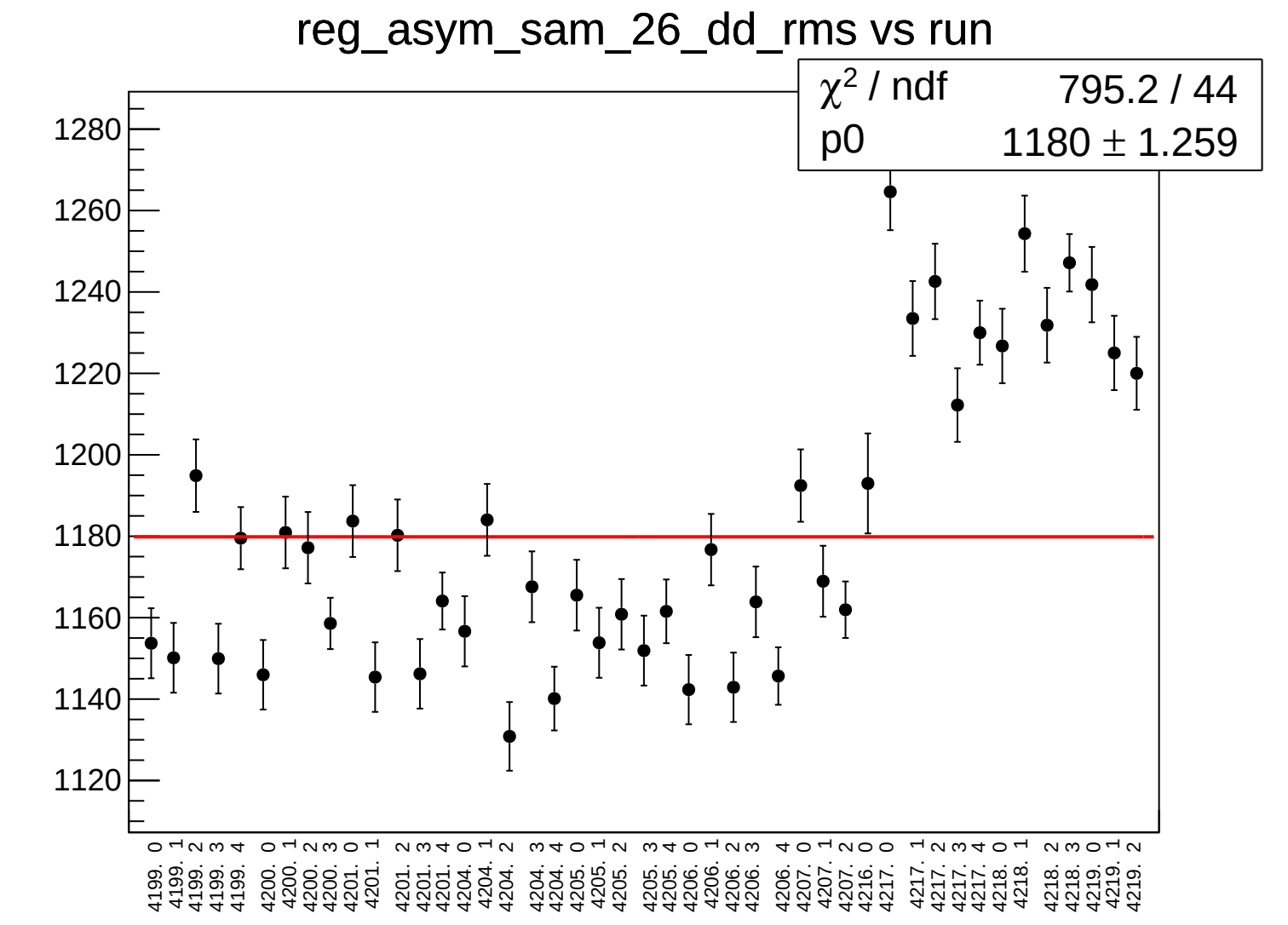

asym_sam_15_dd_correction_mean vs run
χ² / ndf 37.47 / 44
p0 −1998 ± 2309
40000
20000
0
−20000
−40000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −103.2
Std Dev 129.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

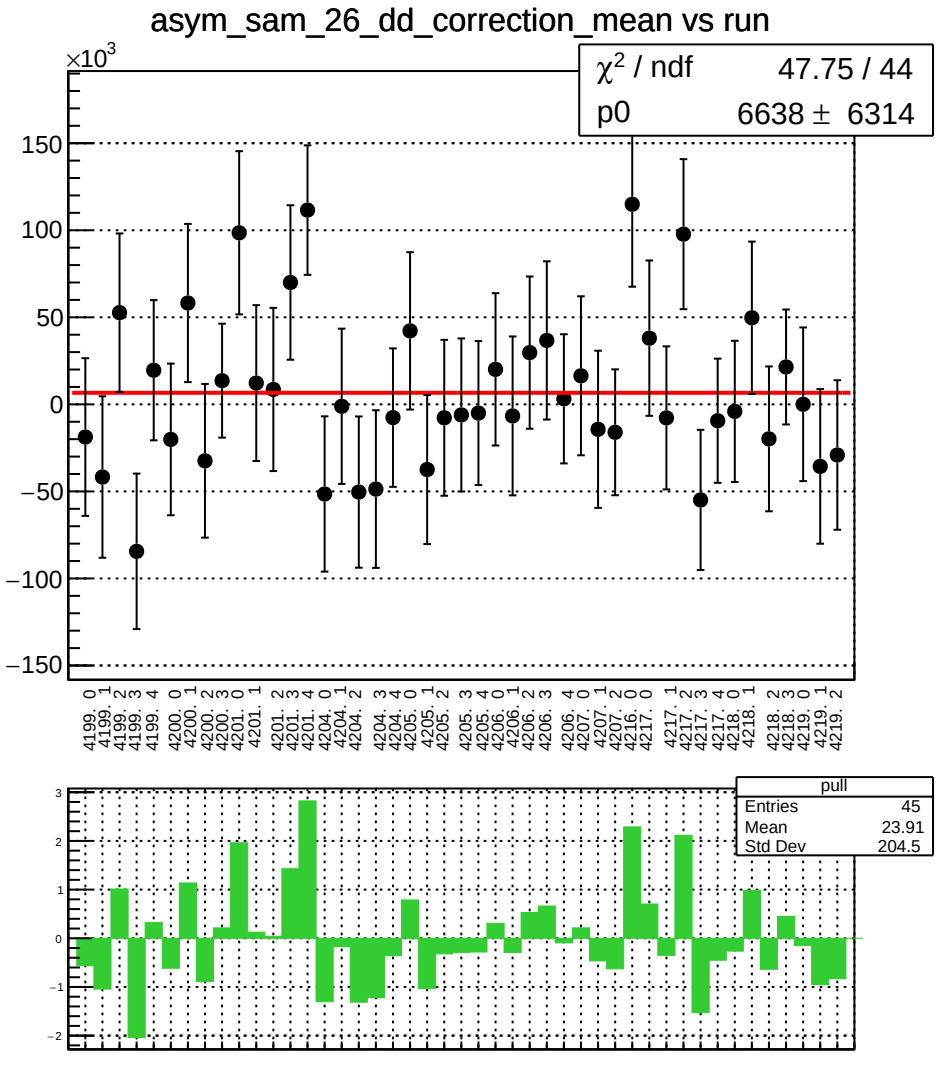

pull1D
Entries 45
Mean −0.008803
Std Dev 0.9124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

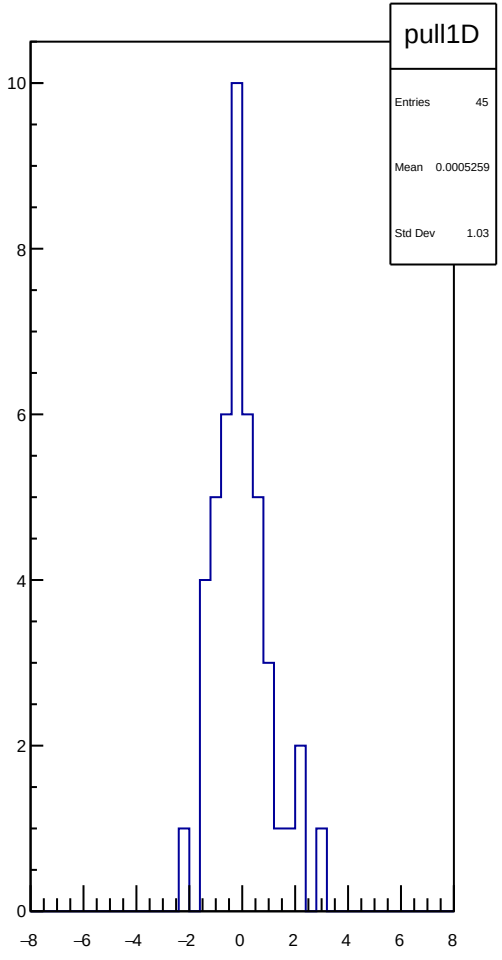

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.653e+04 / 44
p0 1516 ± 1.633
2000
1800
1600
1400
1200
1000
800
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

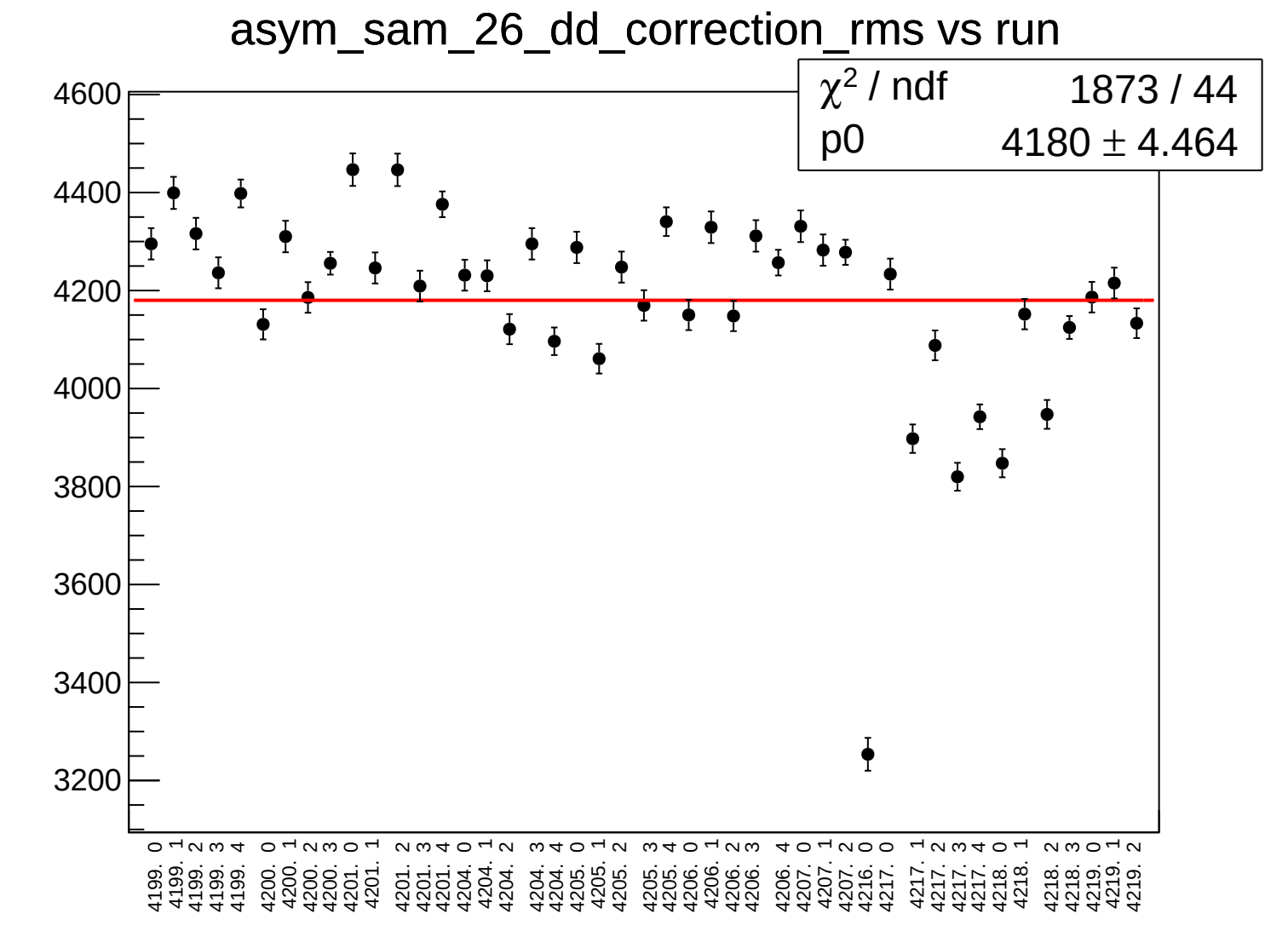

reg_asym_sam_26_dd_mean vs run
χ² / ndf 44.48 / 44
p0 −3017 ± 1781
40000
20000
0
−20000
−40000
−60000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −69.61
Std Dev 83.36
2
1
0
−1
−2

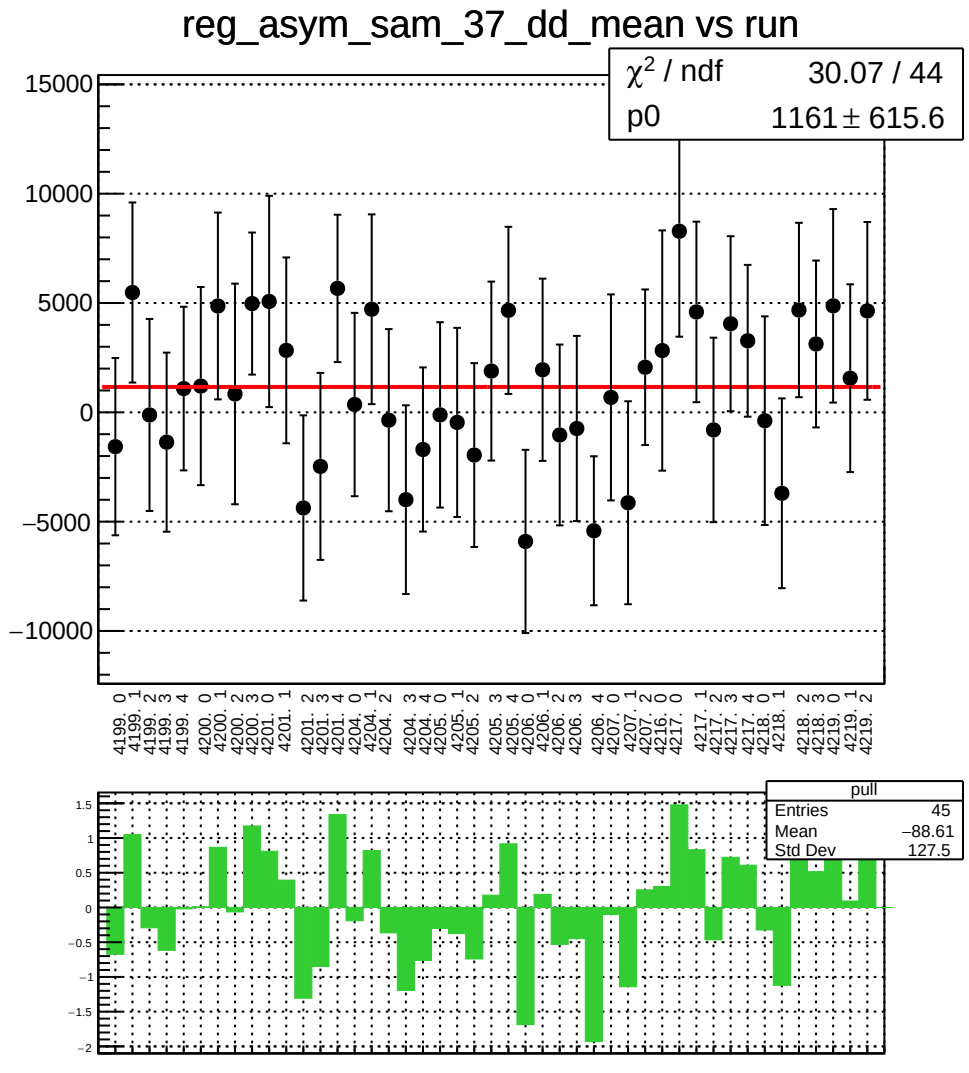

pull1D
Entries 45
Mean 0.01762
Std Dev 0.994
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

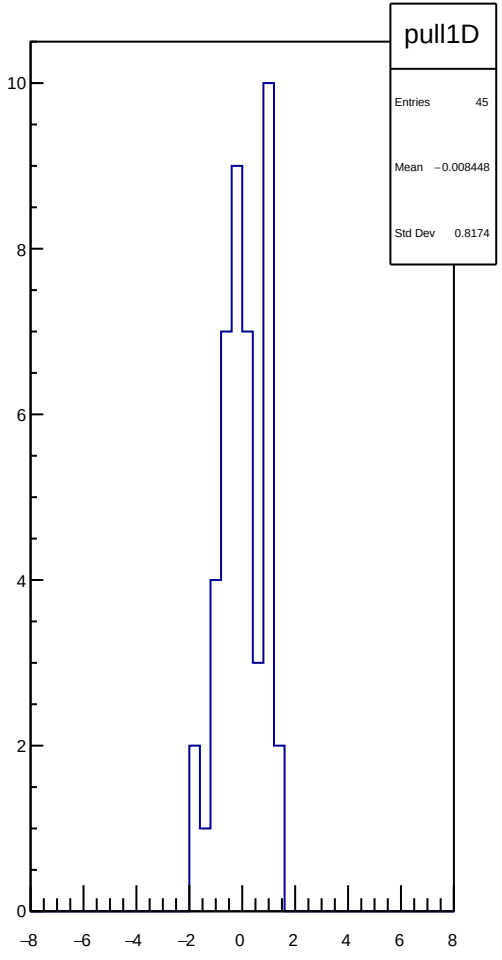

reg_asym_sam_26_dd_rms vs run
χ² / ndf 795.2 / 44
p0 1180 ± 1.259
1280
1260
1240
1220
1200
1180
1160
1140
1120
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

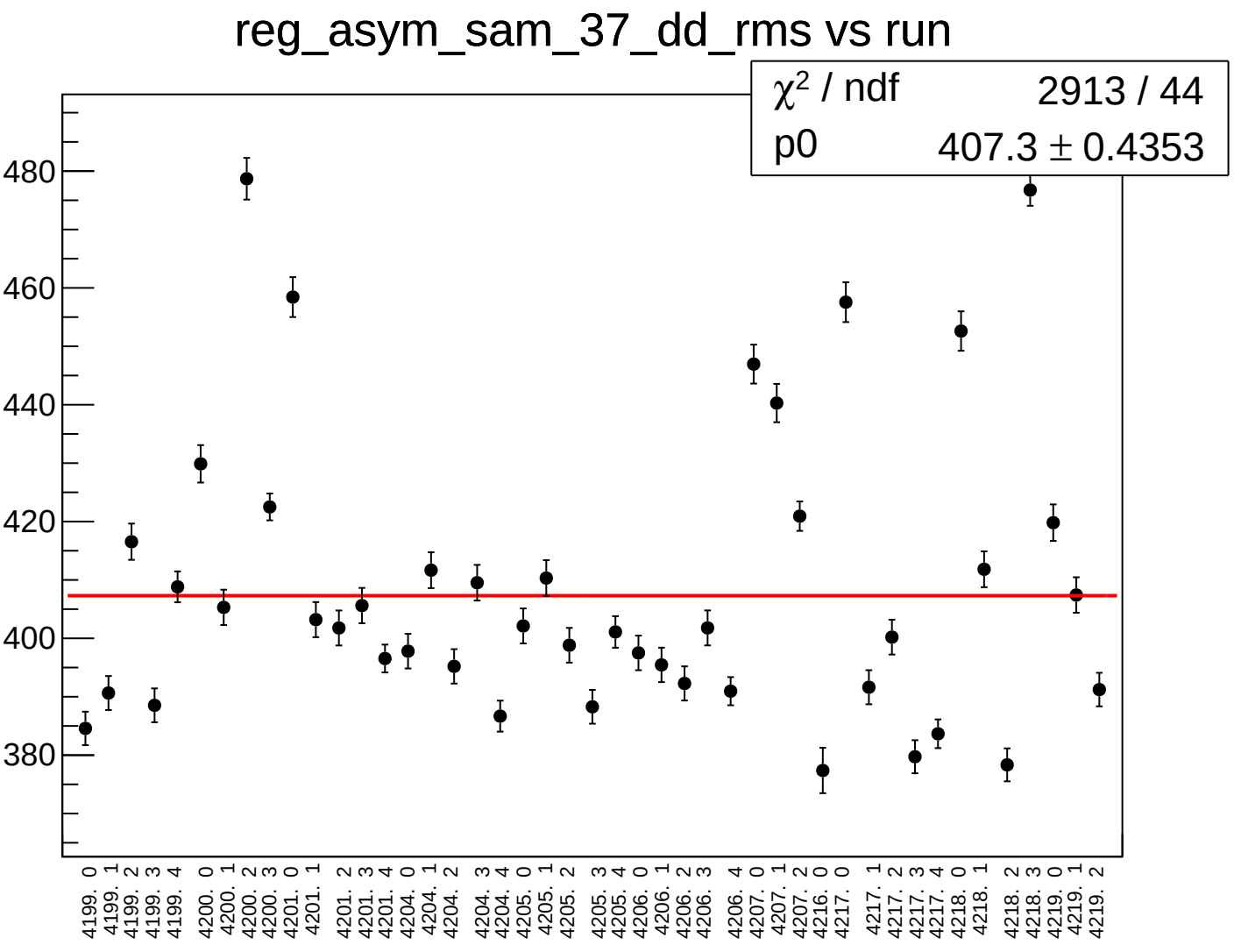

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 47.75 / 44
p0 6638 ± 6314
150
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 23.91
Std Dev 204.5
3
2
1
0
−1
−2

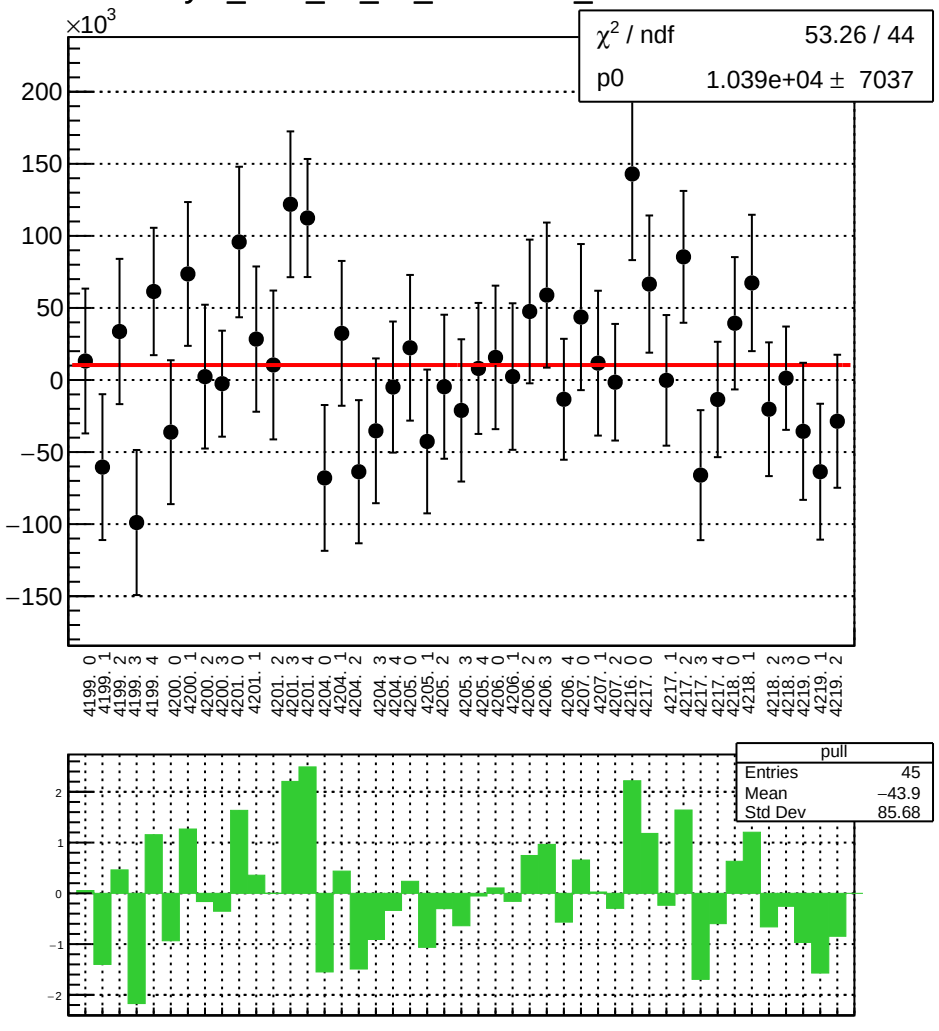

pull1D
Entries 45
Mean 0.0005259
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

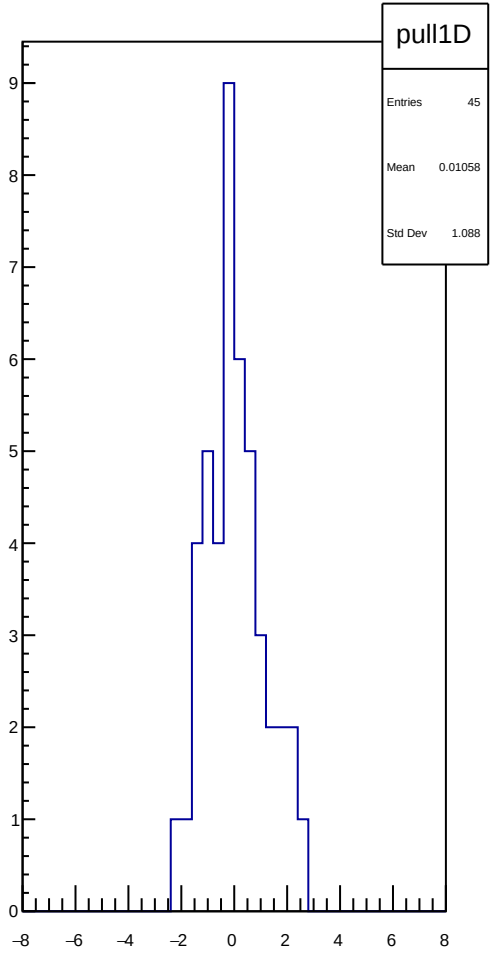

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1873 / 44
p0 4180 ± 4.464
4600
4400
4200
4000
3800
3600
3400
3200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

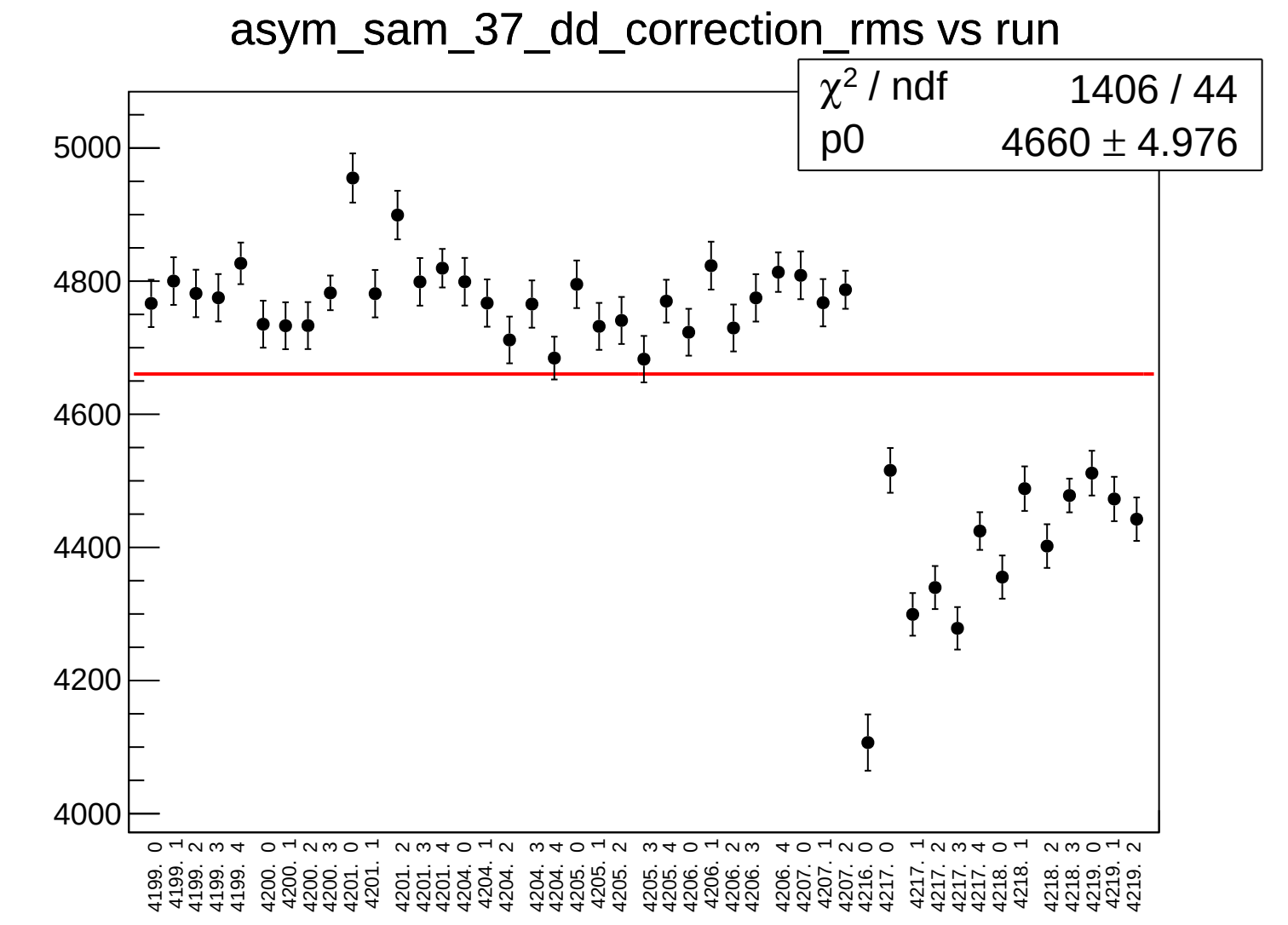

reg_asym_sam_37_dd_mean vs run
χ² / ndf 30.07 / 44
p0 1161 ± 615.6
15000
10000
5000
0
−5000
−10000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −88.61
Std Dev 127.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

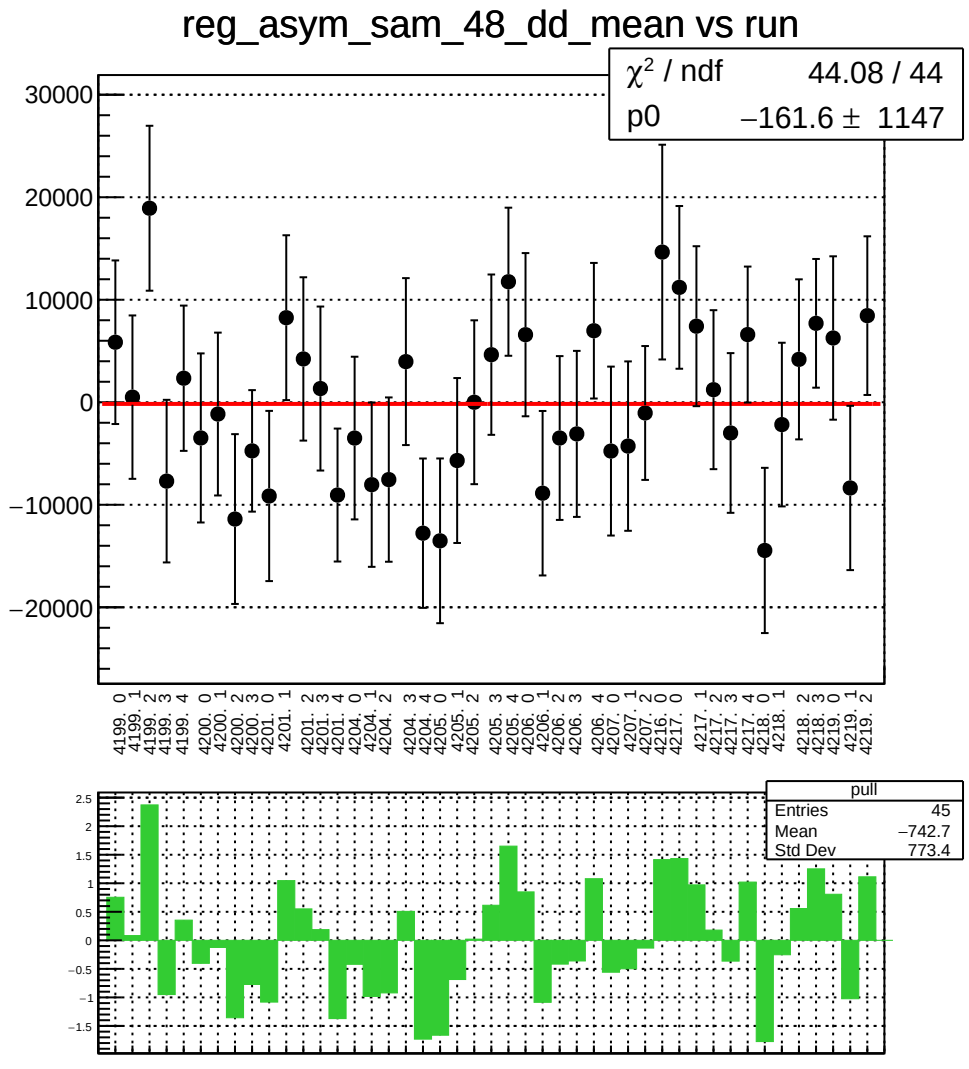

pull1D
Entries 45
Mean −0.008448
Std Dev 0.8174
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

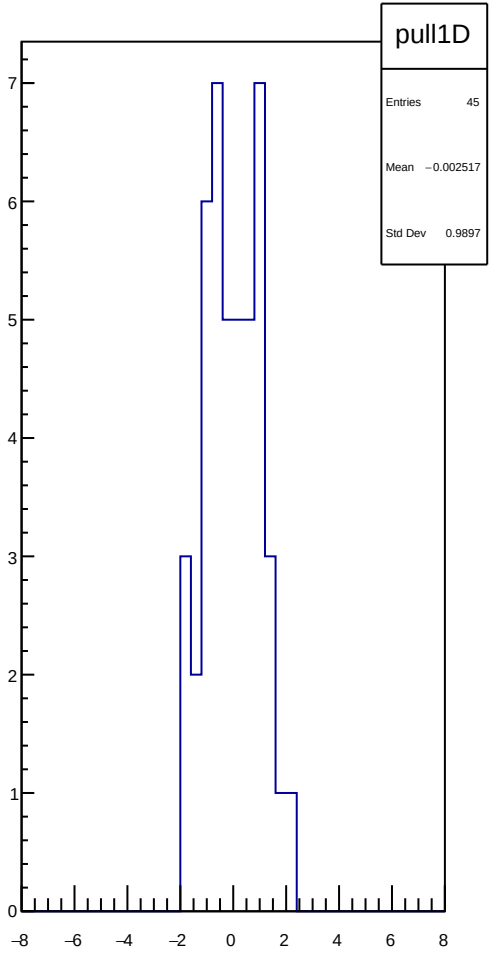

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2913 / 44
p0 407.3 ± 0.4353
480
460
440
420
400
380
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

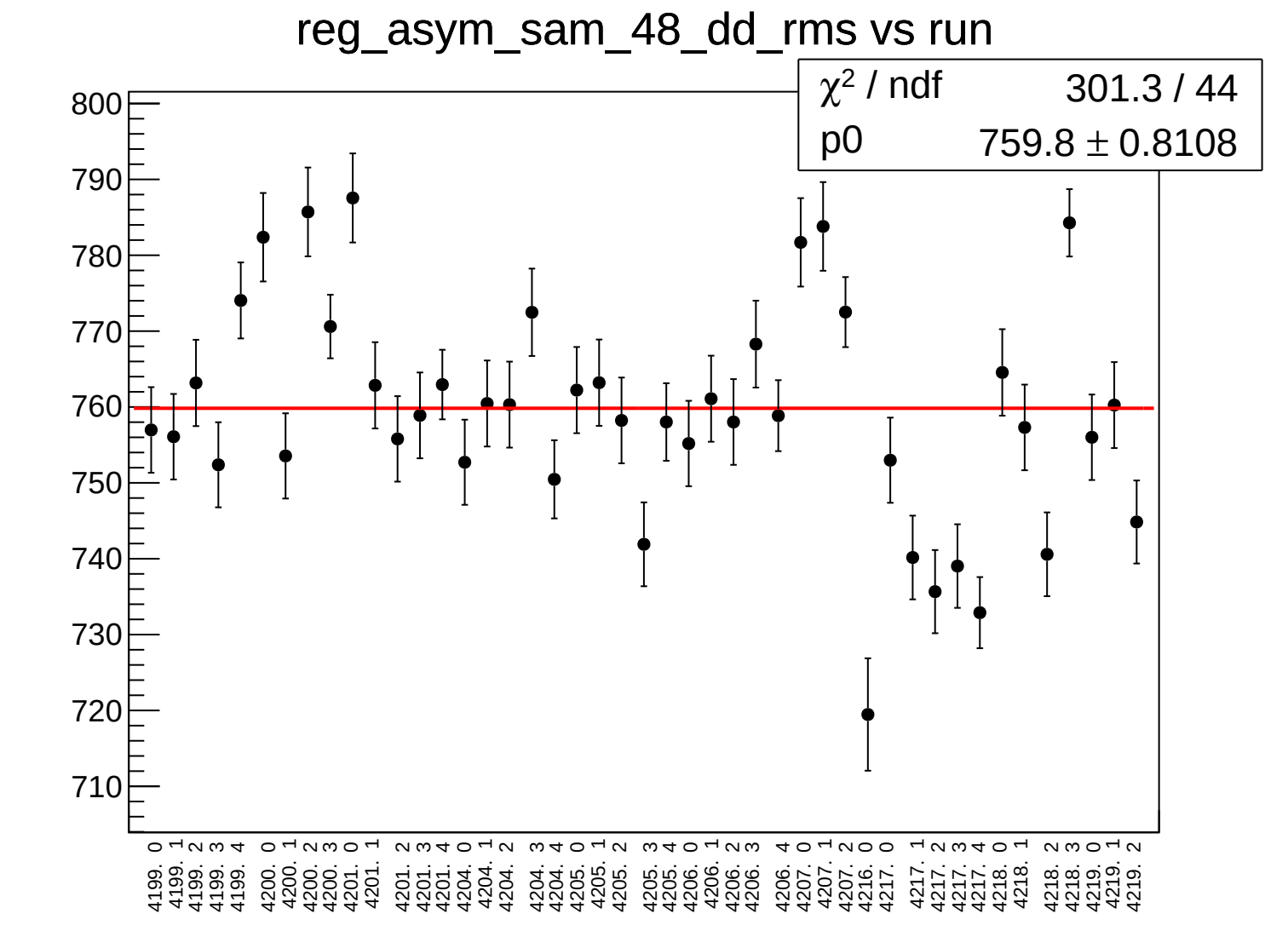

asym_sam_37_dd_correction_mean vs run
χ² / ndf 53.26 / 44
p0 1.039e+04 ± 7037
pull
Entries 45
Mean −43.9
Std Dev 85.68

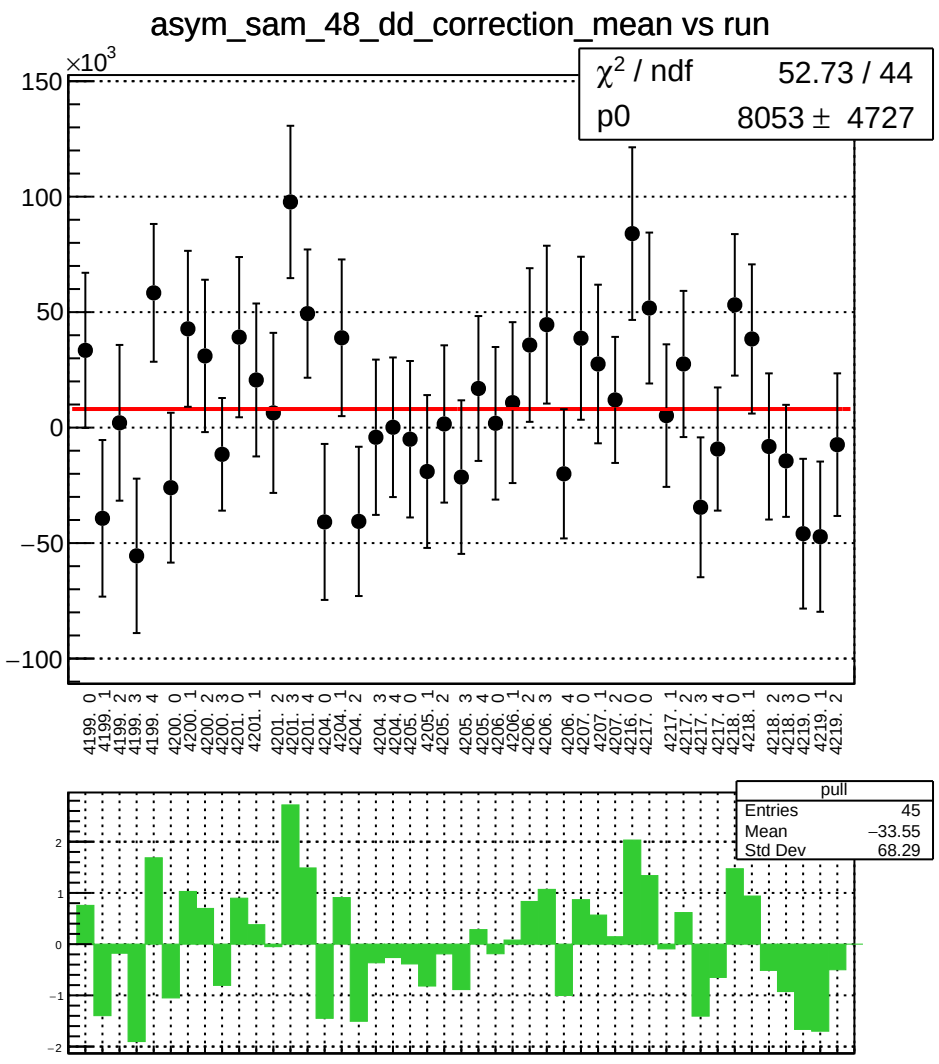

pull1D
Entries 45
Mean 0.01058
Std Dev 1.088

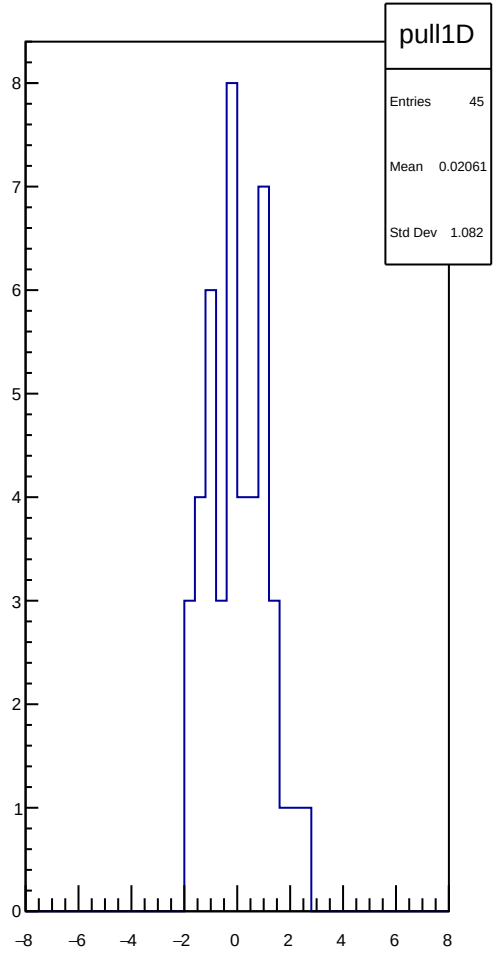

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1406 / 44
p0 4660 ± 4.976
5000
4800
4600
4400
4200
4000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

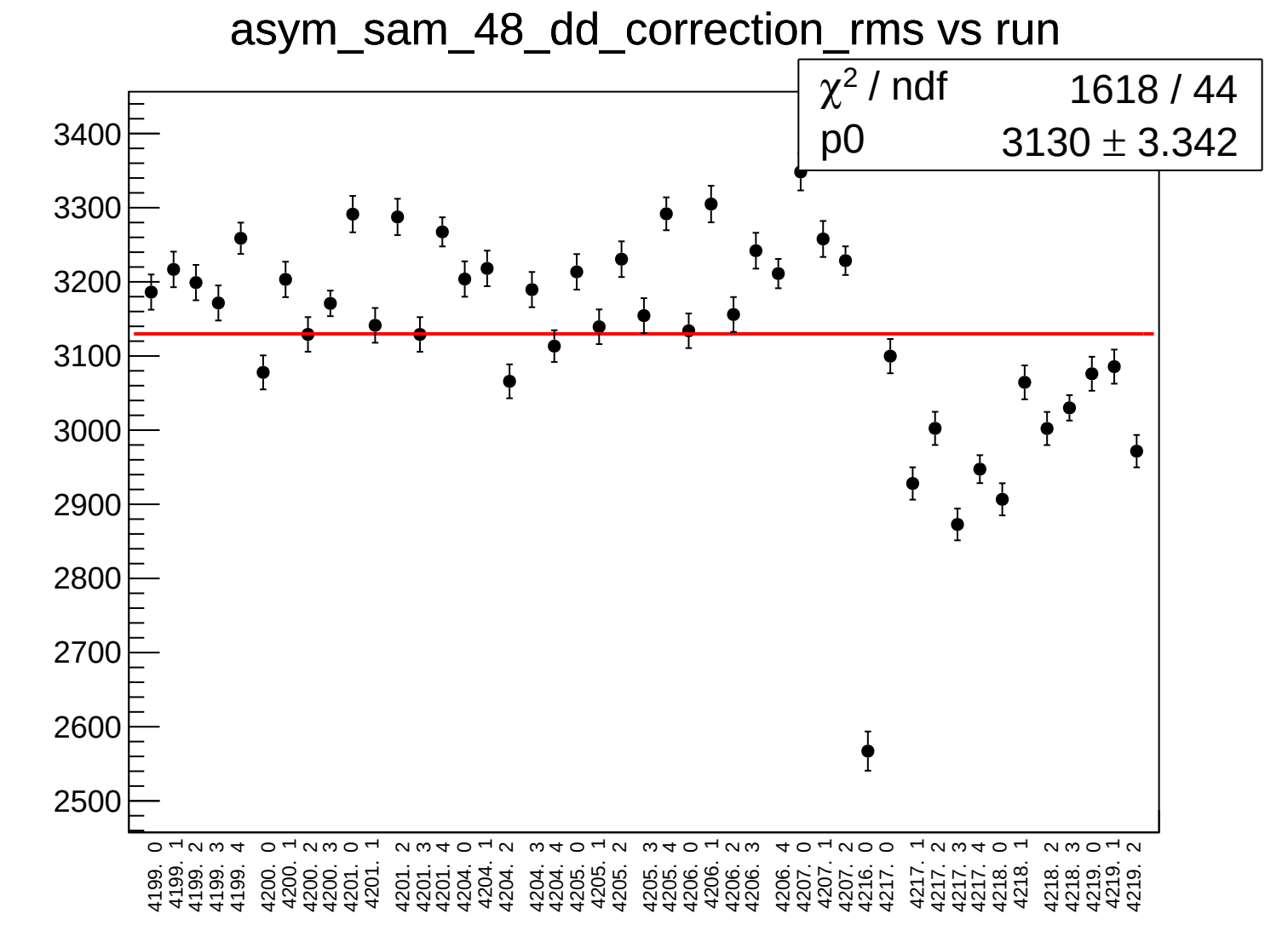

reg_asym_sam_48_dd_mean vs run
χ² / ndf 44.08 / 44
p0 −161.6 ± 1147
30000
20000
10000
0
−10000
−20000
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −742.7
Std Dev 773.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

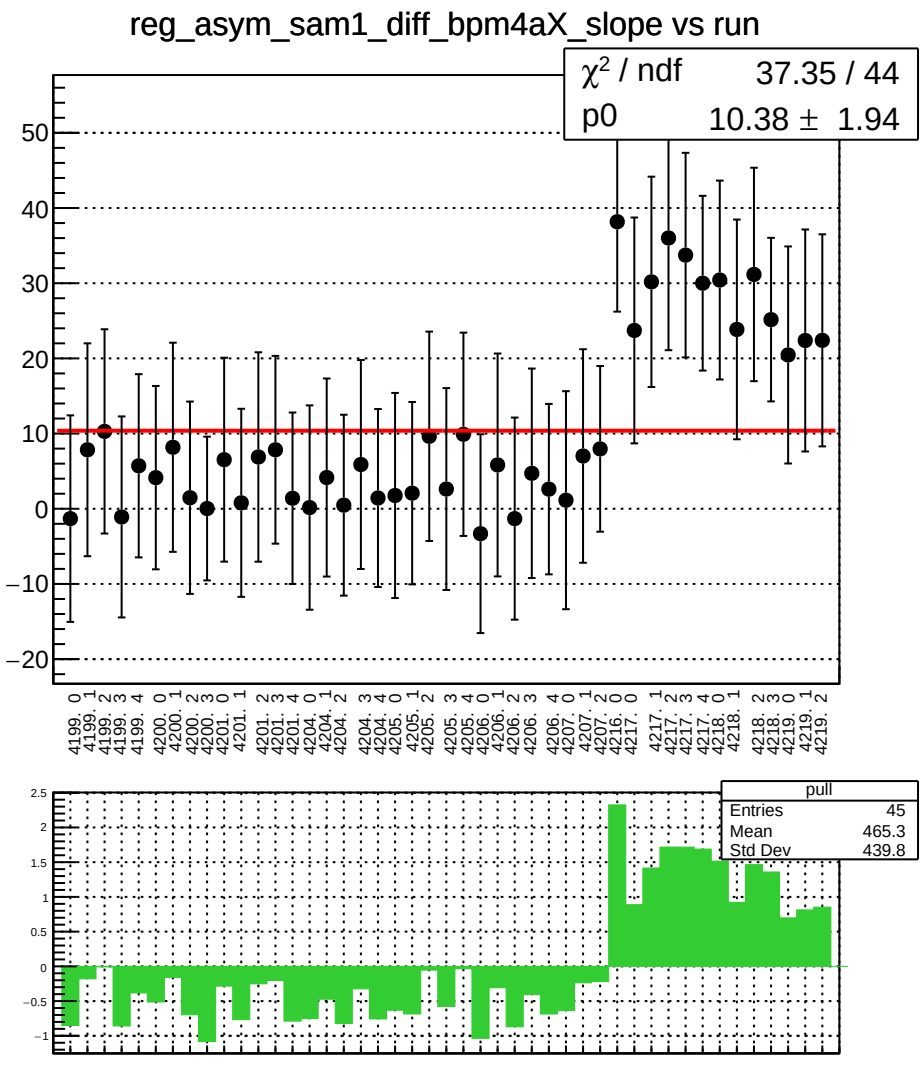

pull1D
Entries 45
Mean −0.002517
Std Dev 0.9897
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

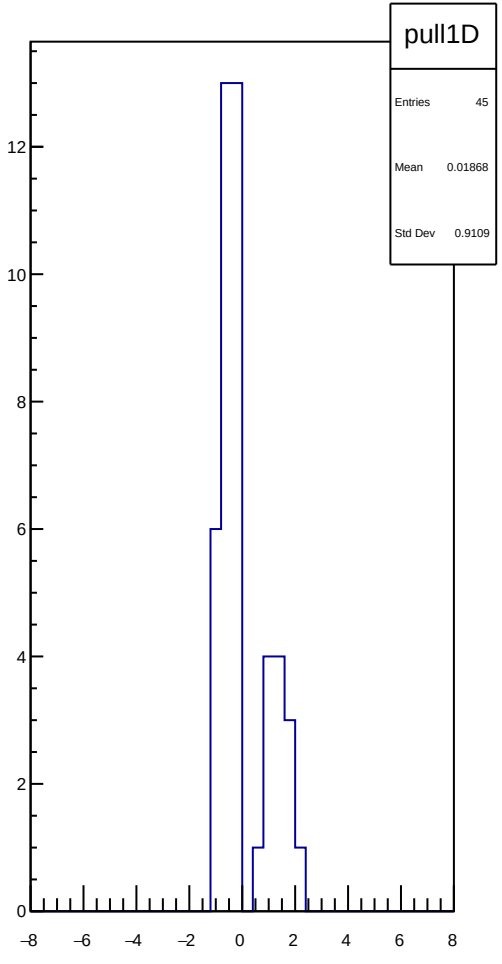

reg_asym_sam_48_dd_rms vs run
χ² / ndf 301.3 / 44
p0 759.8 ± 0.8108
800
790
780
770
760
750
740
730
720
710
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

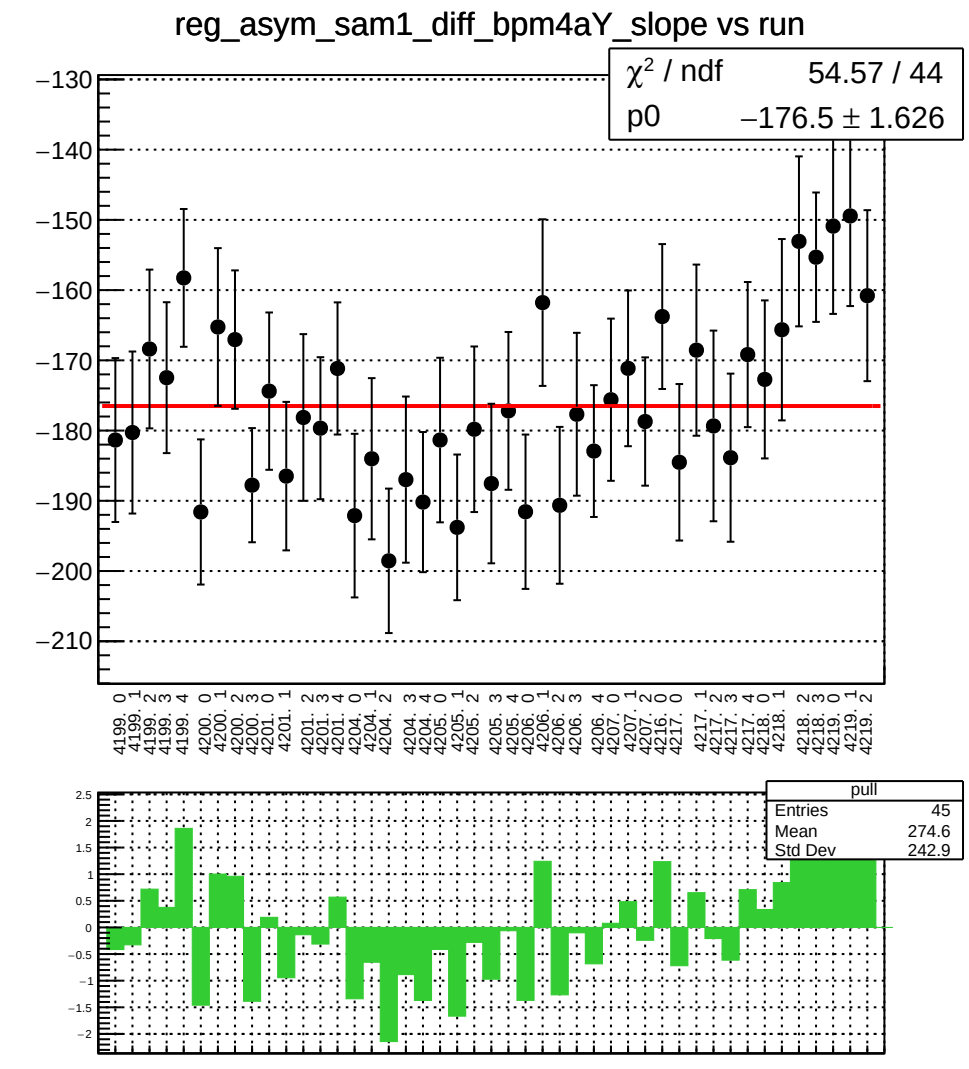

asym_sam_48_dd_correction_mean vs run
×10^3
χ^2 / ndf 52.73 / 44
p0 8053 ± 4727
150
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −33.55
Std Dev 68.29
2
1
0
−1
−2

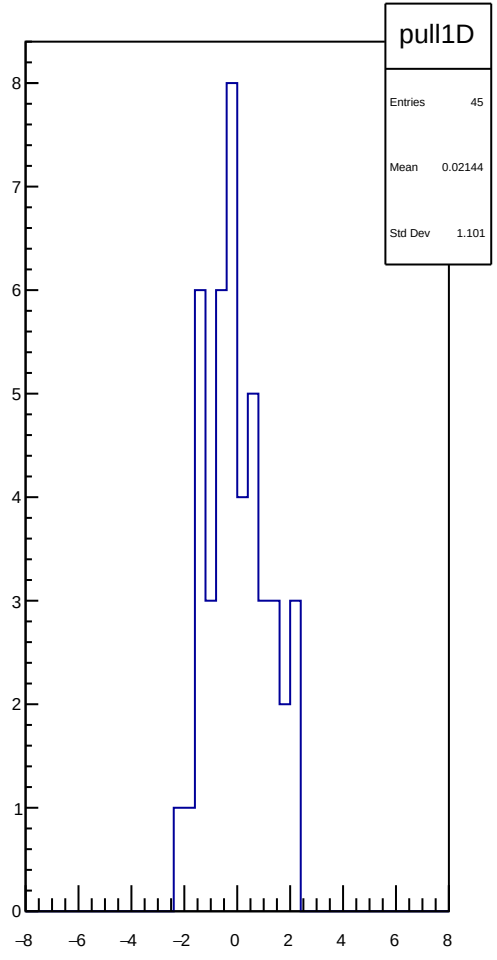

pull1D
Entries 45
Mean 0.02061
Std Dev 1.082
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

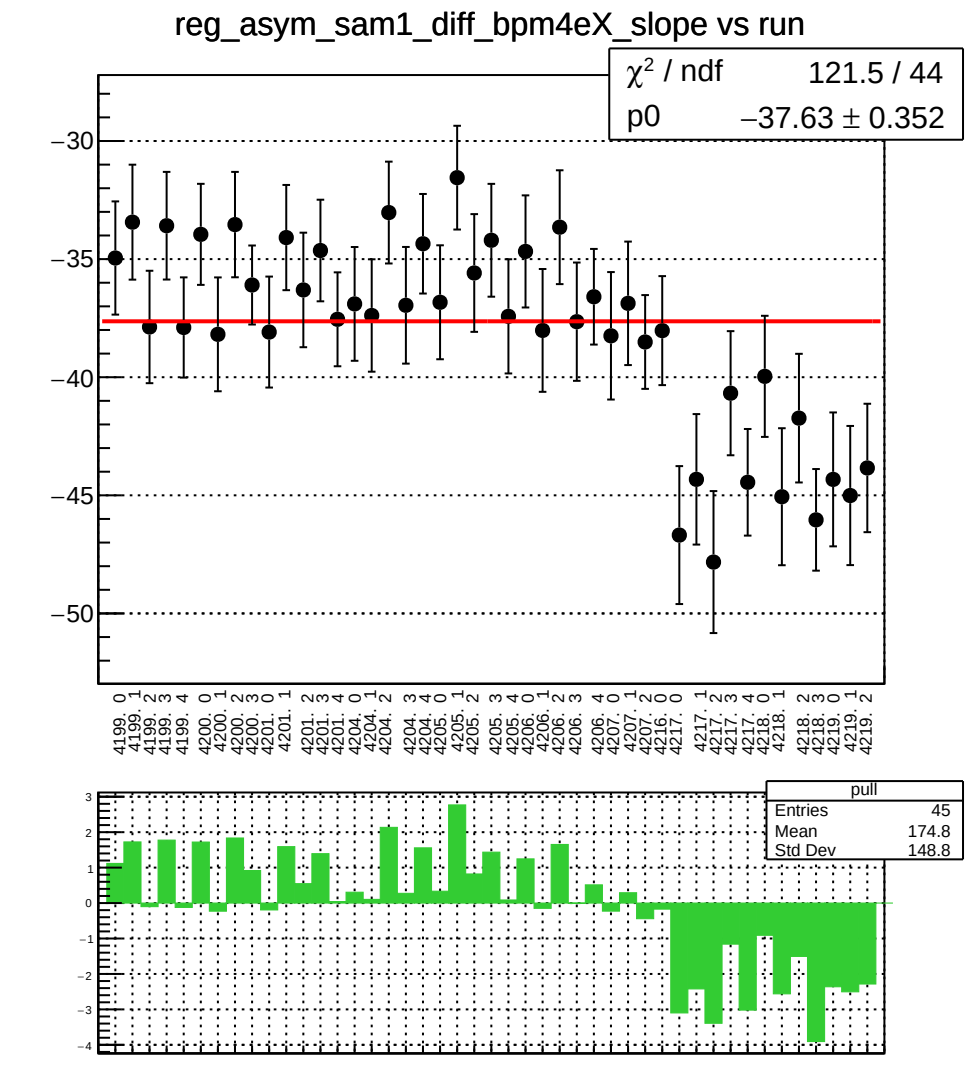

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1618 / 44
p0 3130 ± 3.342
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2

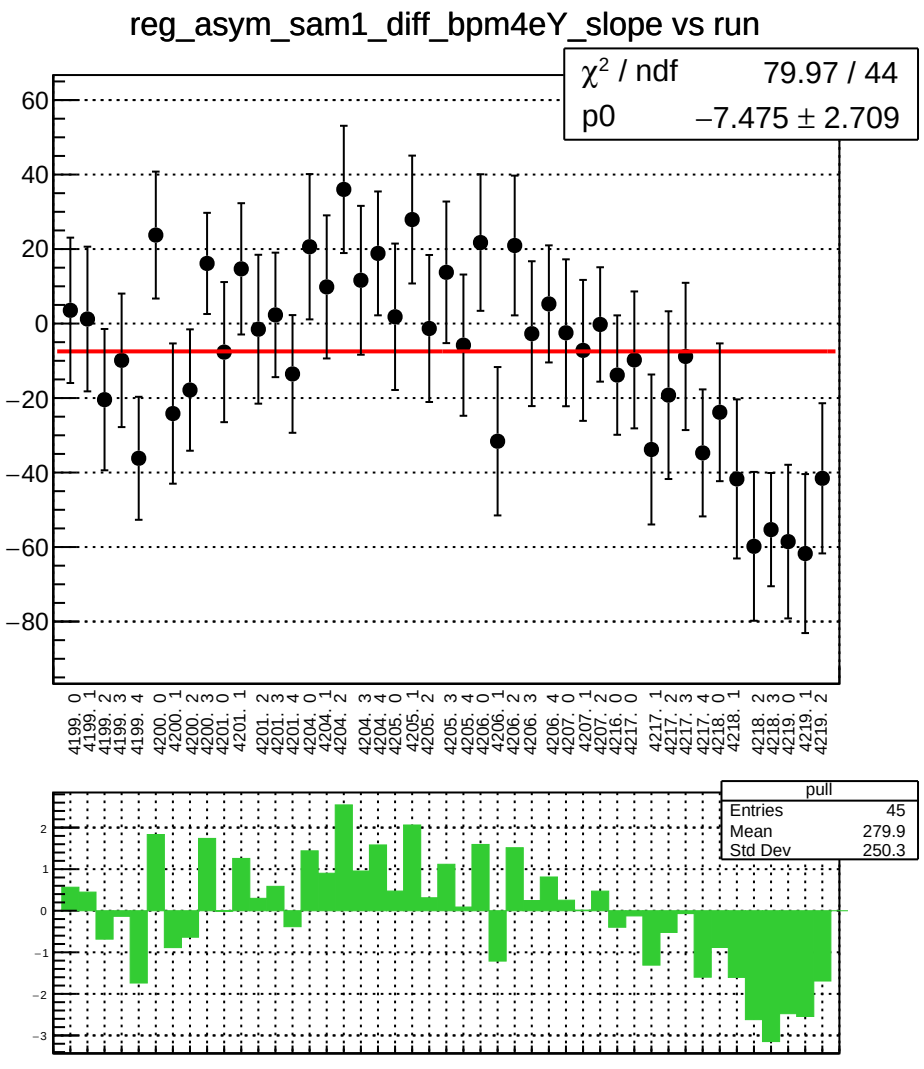

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 37.35 / 44
p0 10.38 ± 1.94
pull
Entries 45
Mean 465.3
Std Dev 439.8

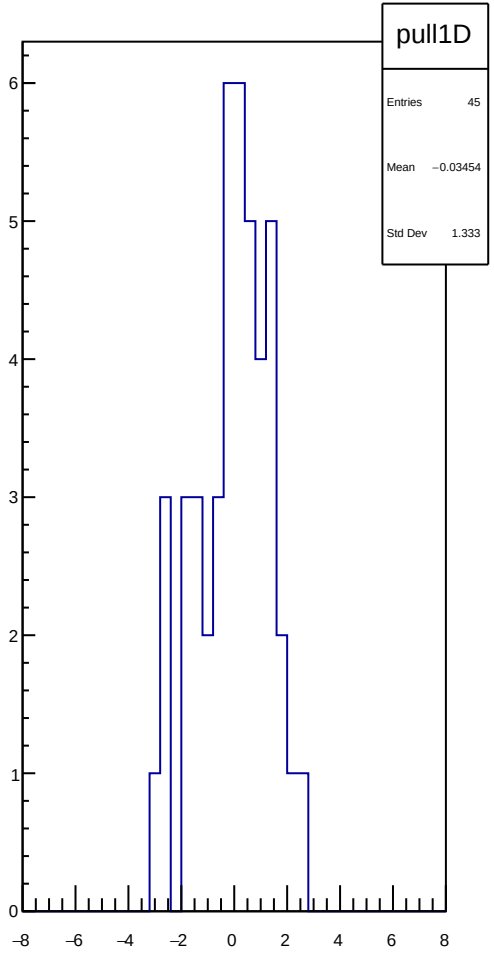

pull1D
Entries 45
Mean 0.01868
Std Dev 0.9109

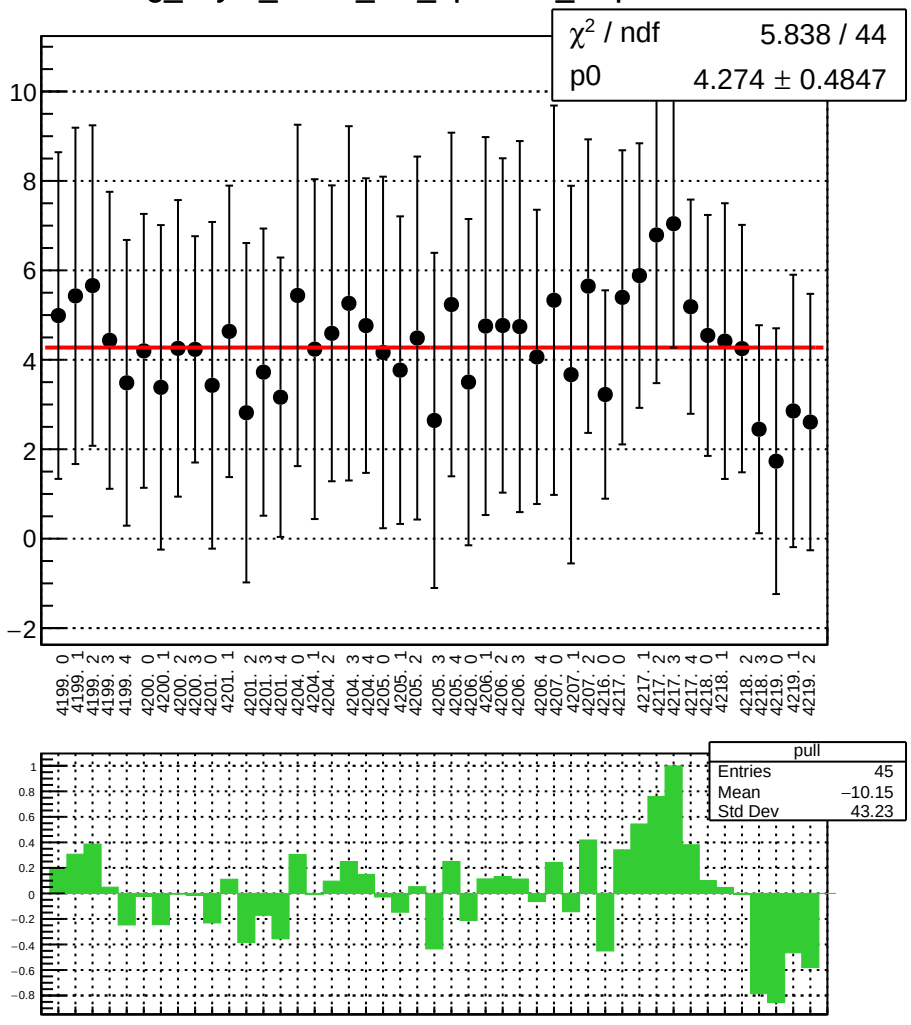

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 54.57 / 44
p0 −176.5 ± 1.626
pull
Entries 45
Mean 274.6
Std Dev 242.9

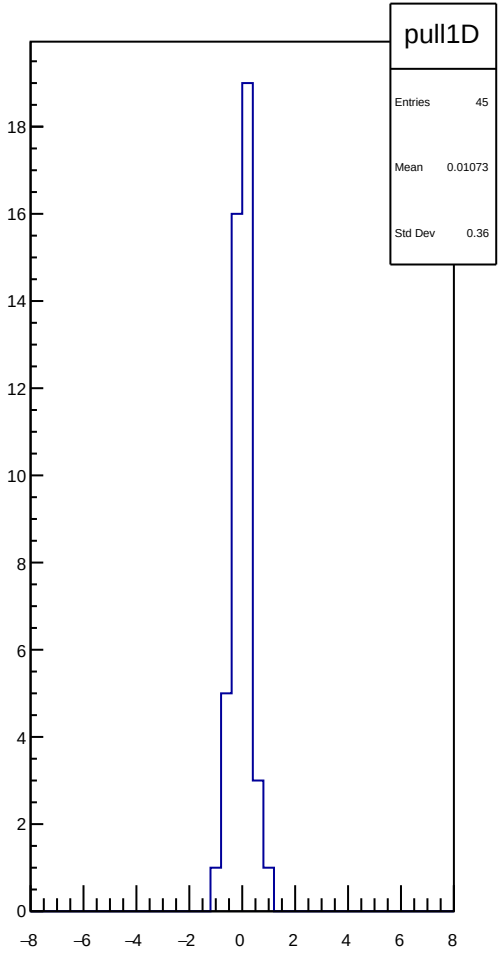

pull1D
Entries 45
Mean 0.02144
Std Dev 1.101

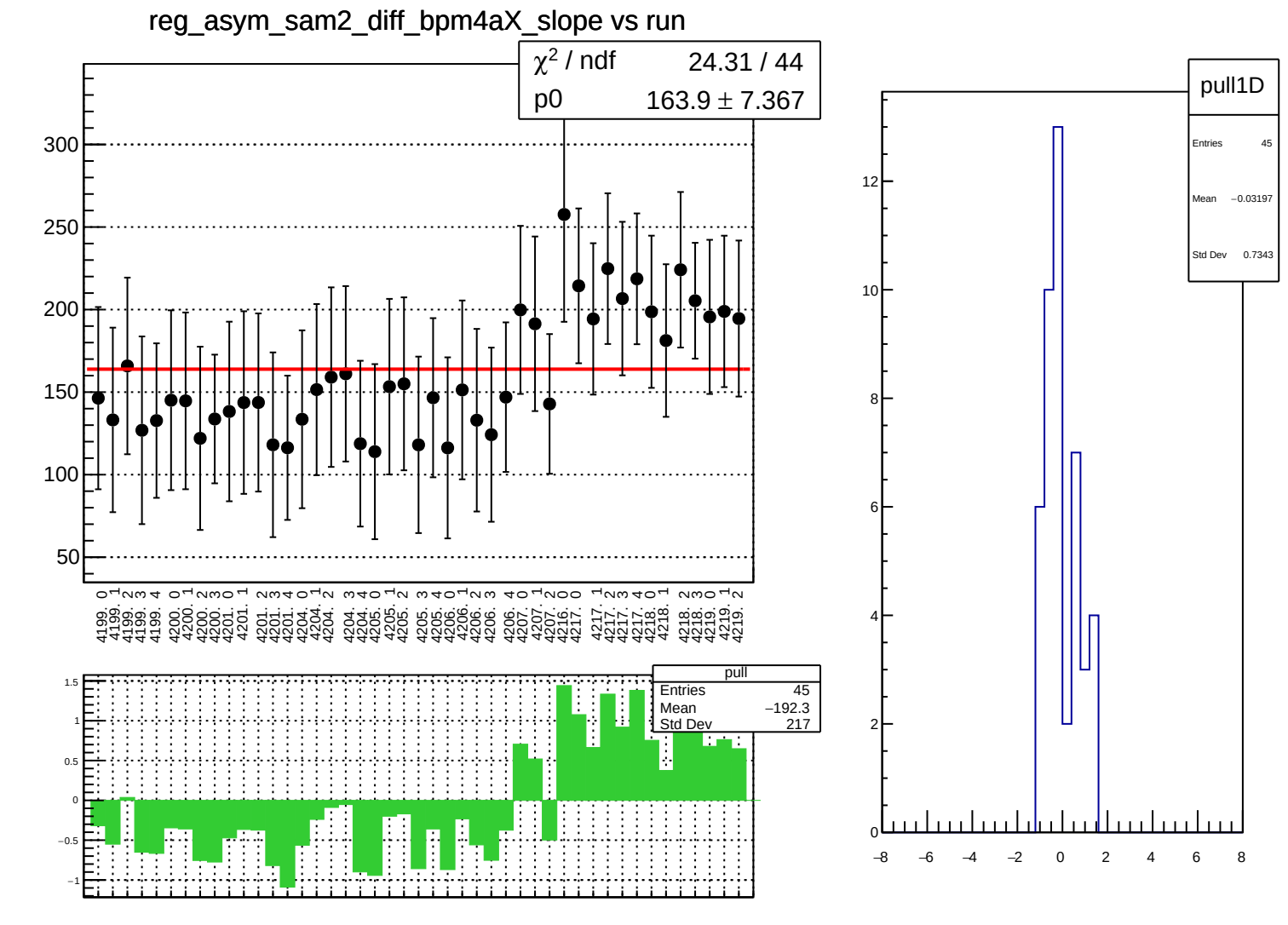

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 121.5 / 44
p0 −37.63 ± 0.352
−30
−35
−40
−45
−50
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 174.8
Std Dev 148.8
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1015
Std Dev 1.64
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

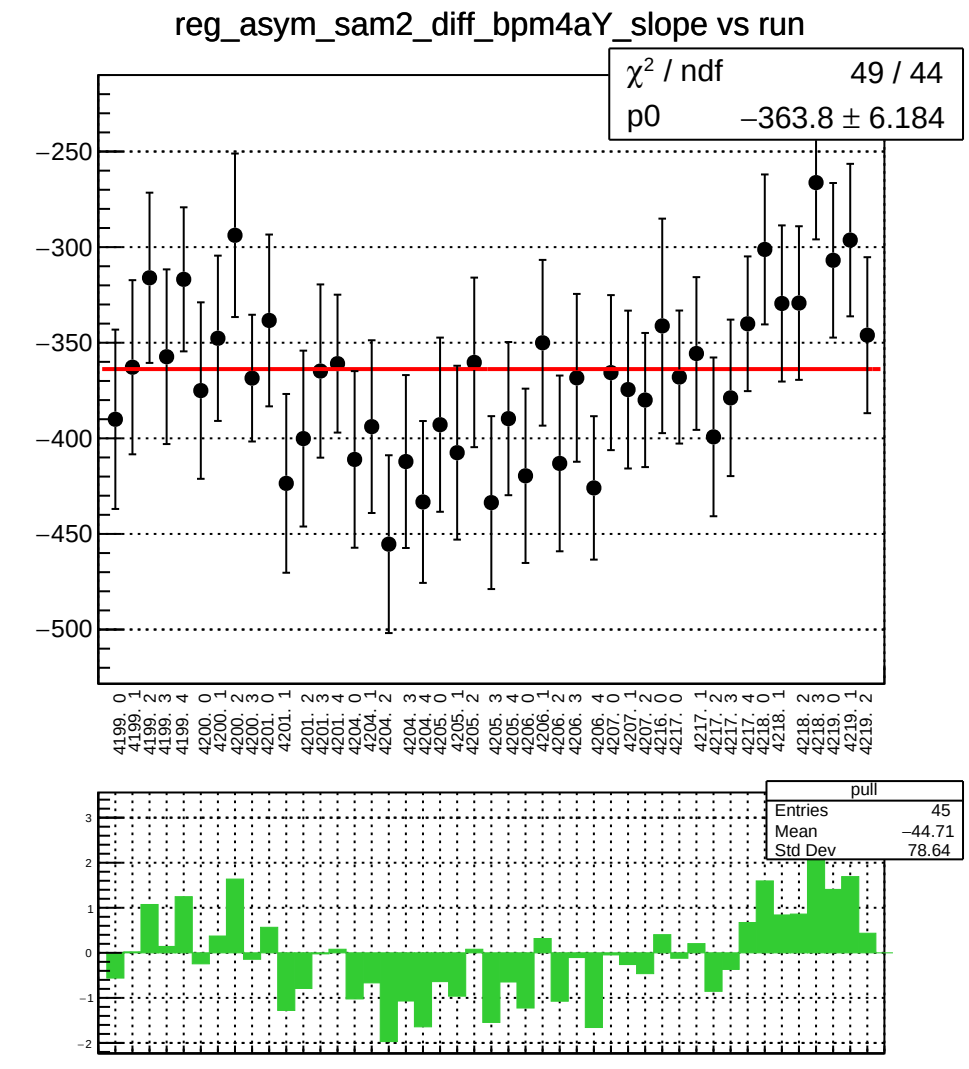

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 79.97 / 44
p0 −7.475 ± 2.709
60
40
20
0
−20
−40
−60
−80
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 279.9
Std Dev 250.3
2
1
0
−1
−2
−3

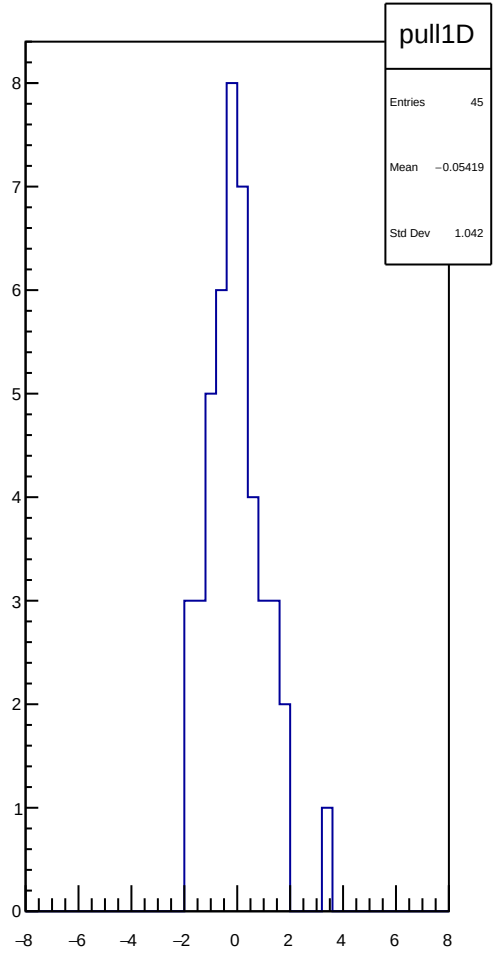

pull1D
Entries 45
Mean −0.03454
Std Dev 1.333
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

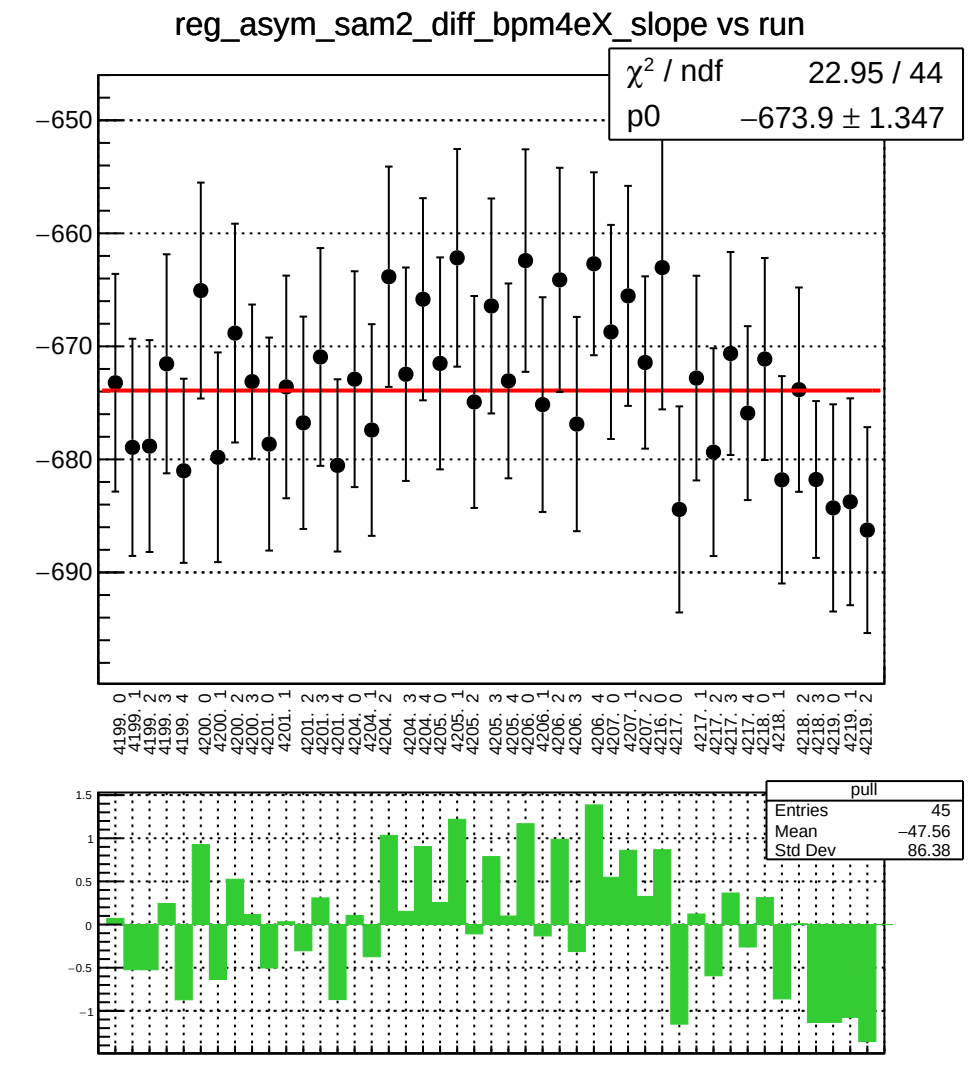

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 5.838 / 44
p0 4.274 ± 0.4847
pull
Entries 45
Mean −10.15
Std Dev 43.23

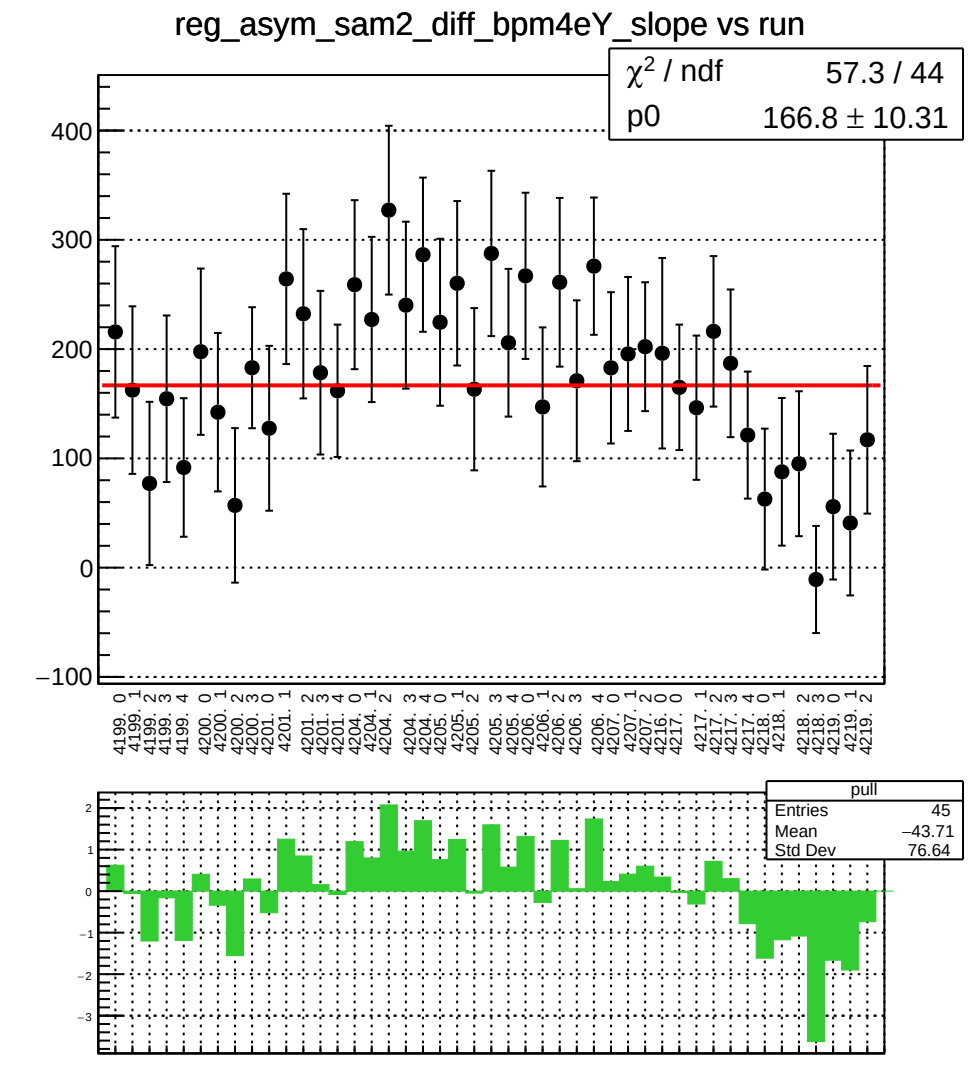

pull1D
Entries 45
Mean 0.01073
Std Dev 0.36

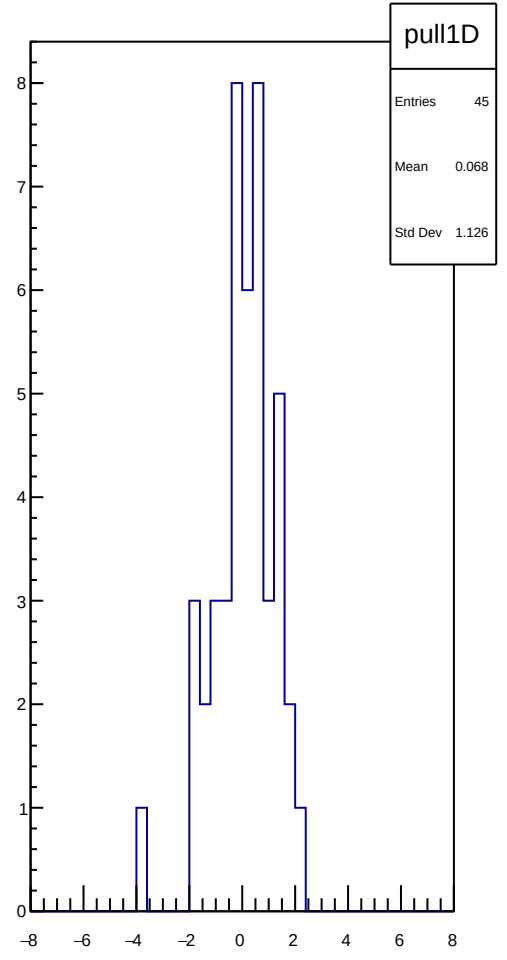

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 24.31 / 44
p0 163.9 ± 7.367
pull
Entries 45
Mean −192.3
Std Dev 217
pull1D
Entries 45
Mean −0.03197
Std Dev 0.7343

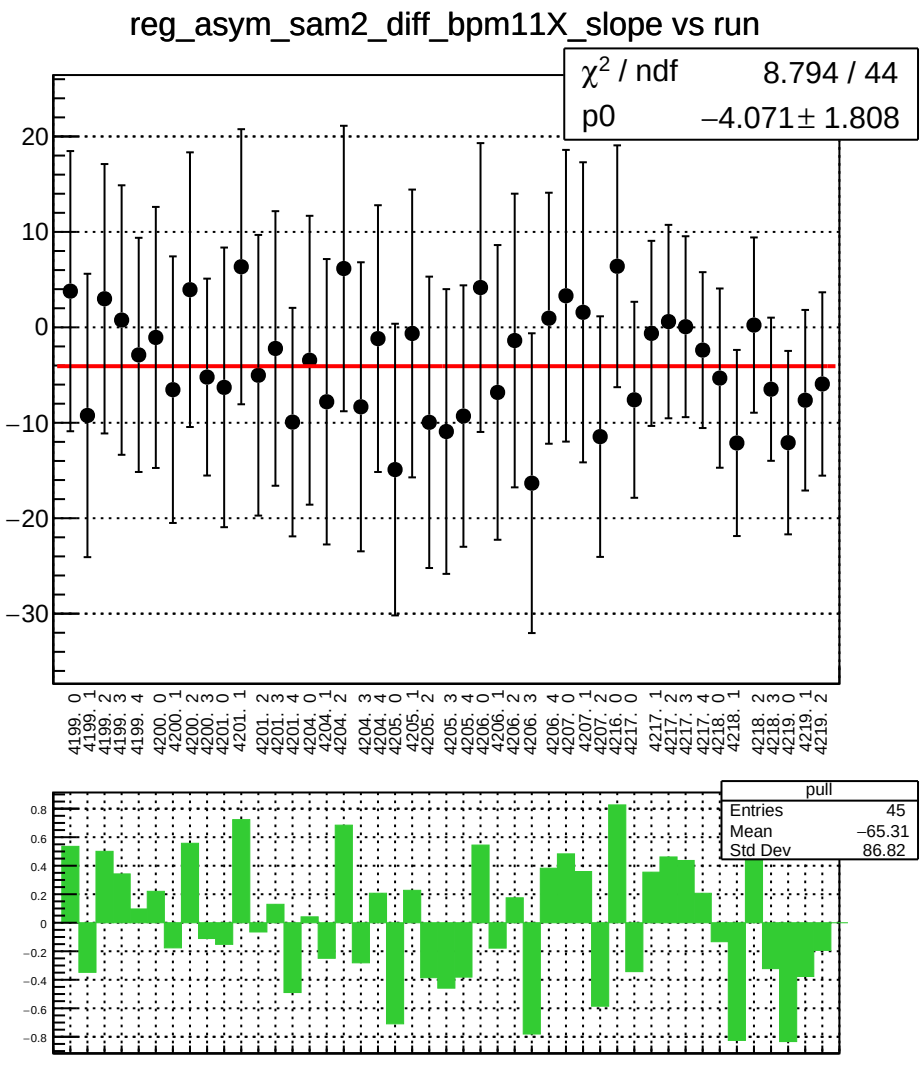

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 49 / 44
p0 −363.8 ± 6.184
−250
−300
−350
−400
−450
−500
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −44.71
Std Dev 78.64
3
2
1
0
−1
−2

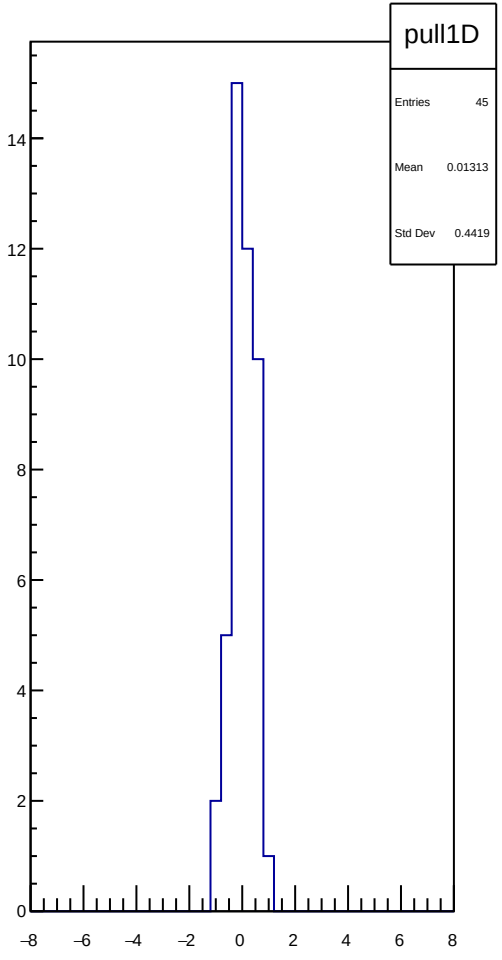

pull1D
Entries 45
Mean −0.05419
Std Dev 1.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

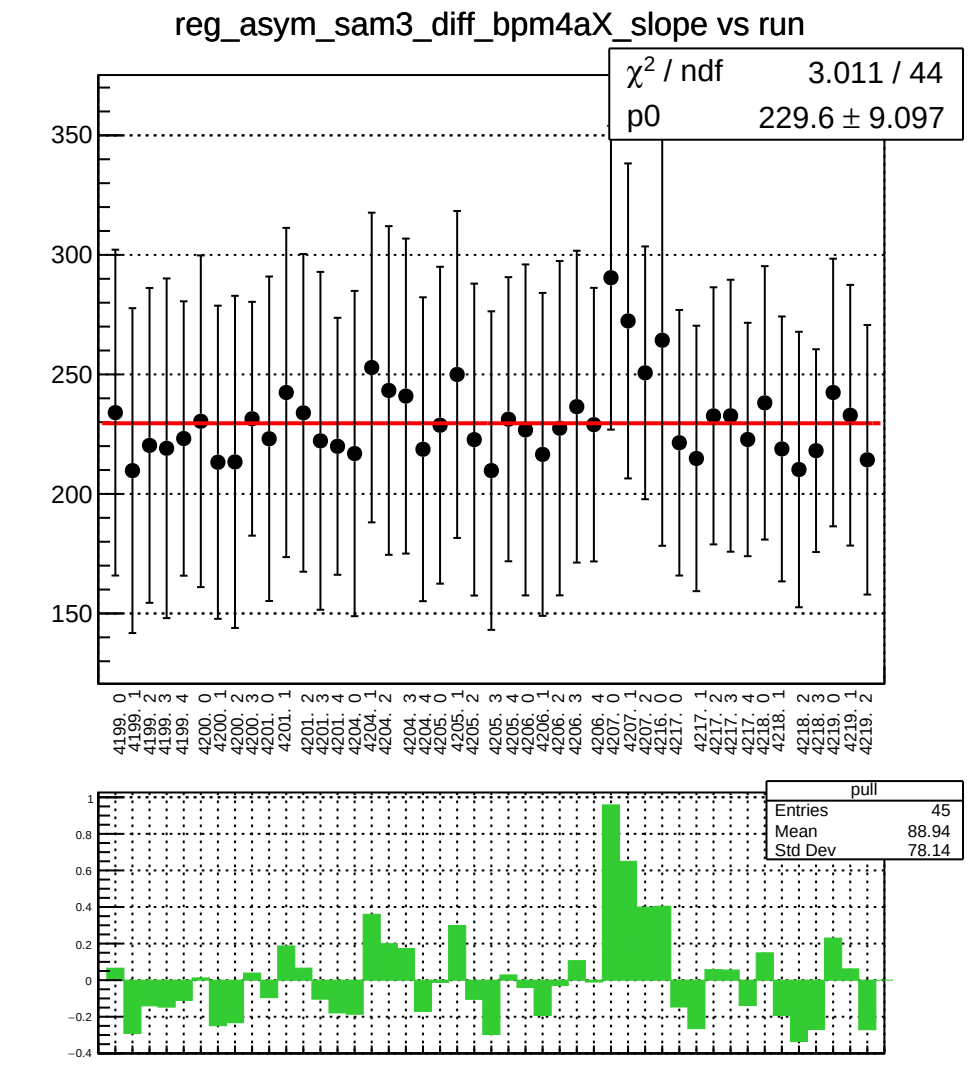

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 22.95 / 44
p0 −673.9 ± 1.347
−650
−660
−670
−680
−690
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −47.56
Std Dev 86.38
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.02238
Std Dev 0.7137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

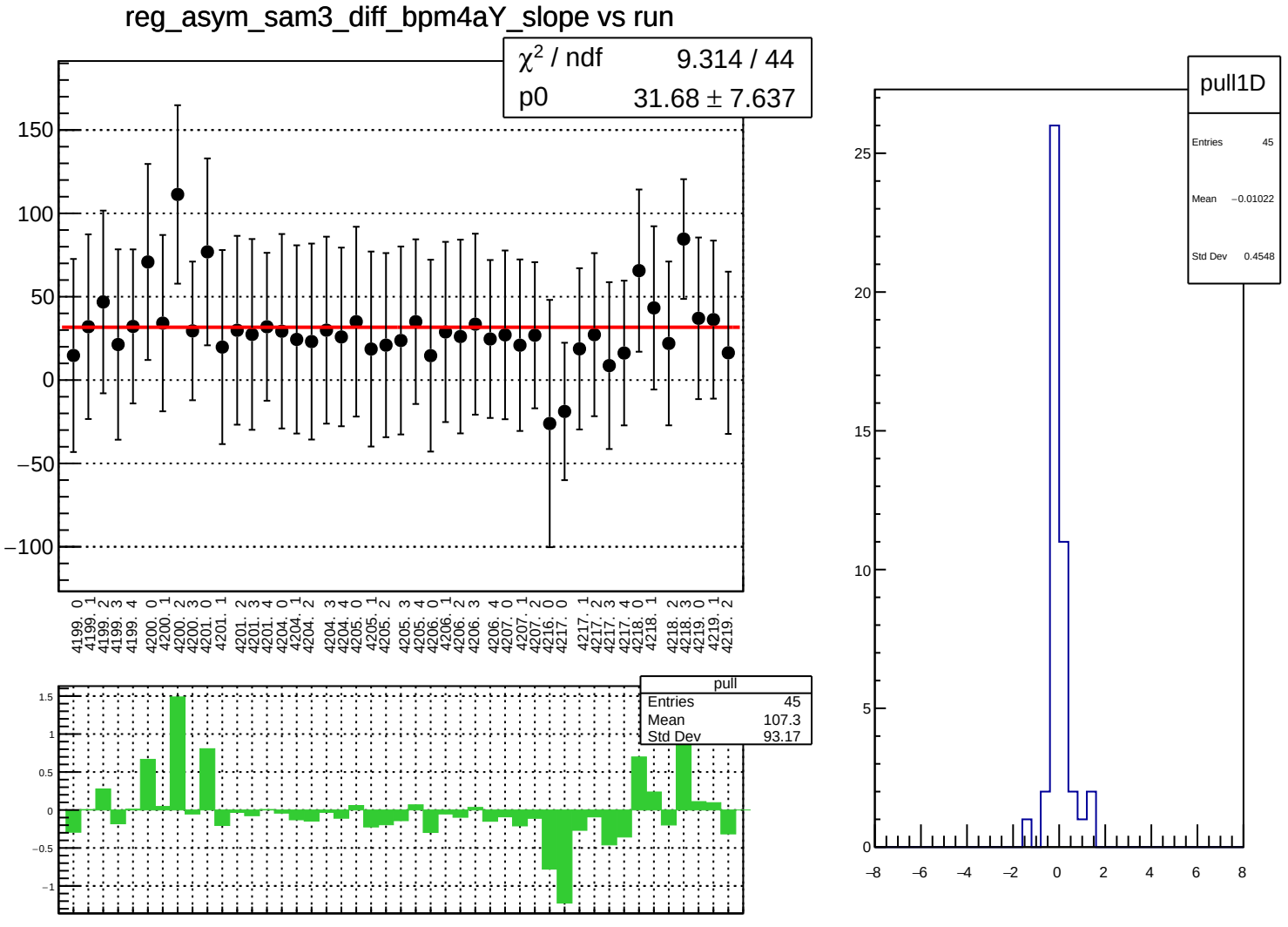

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 57.3 / 44
p0 166.8 ± 10.31
400
300
200
100
0
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −43.71
Std Dev 76.64
2
1
0
−1
−2
−3

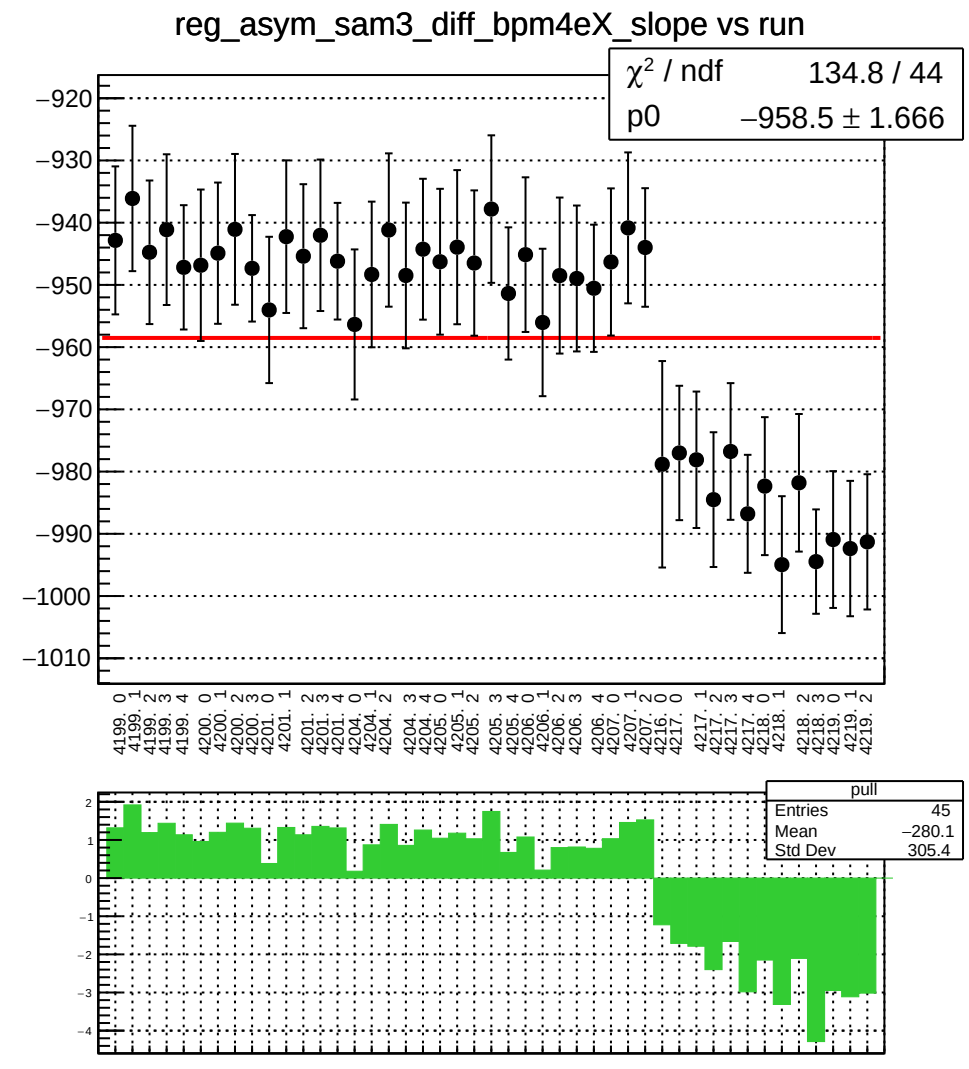

pull1D
Entries 45
Mean 0.068
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

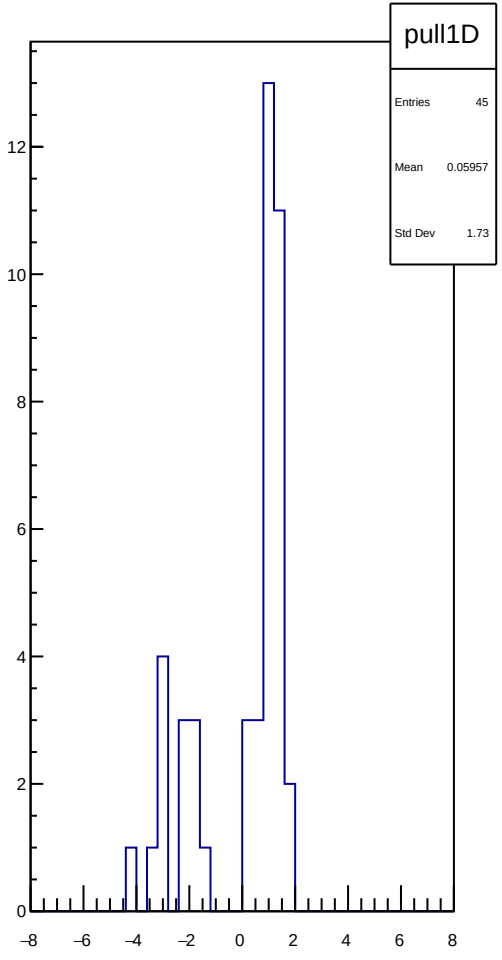

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 8.794 / 44
p0 −4.071± 1.808
20
10
0
−10
−20
−30
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −65.31
Std Dev 86.82
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

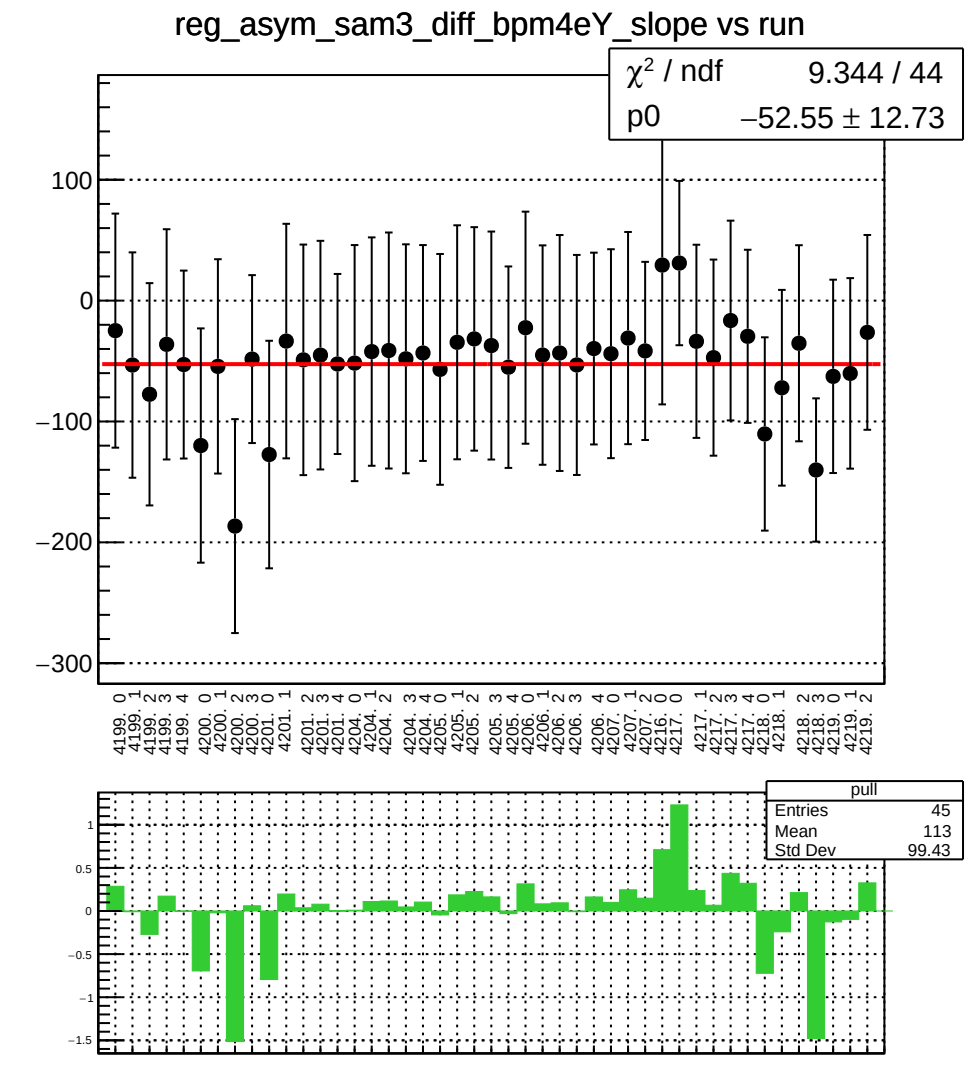

pull1D
Entries 45
Mean 0.01313
Std Dev 0.4419
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

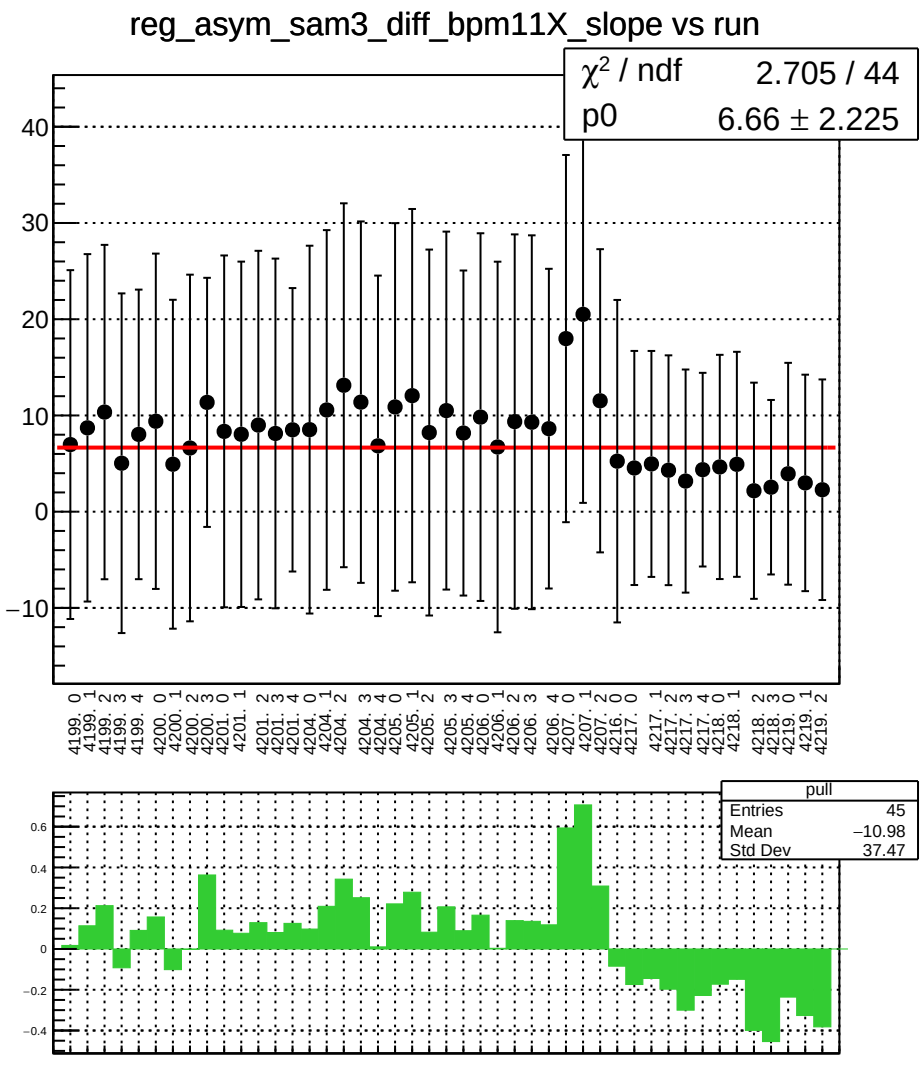

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 3.011 / 44
p0 229.6 ± 9.097
350
300
250
200
150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 88.94
Std Dev 78.14
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.0063
Std Dev 0.2586
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

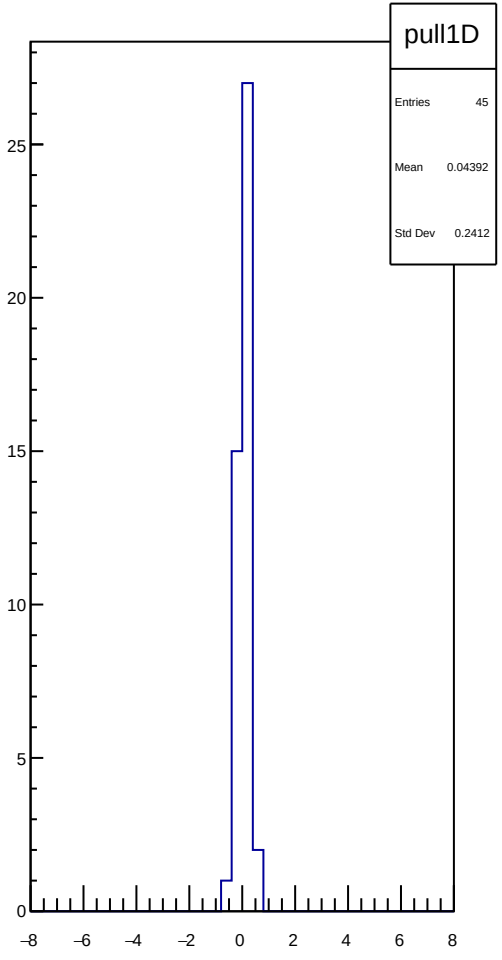

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 9.314 / 44
p0 31.68 ± 7.637
150
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 107.3
Std Dev 93.17
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01022
Std Dev 0.4548
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

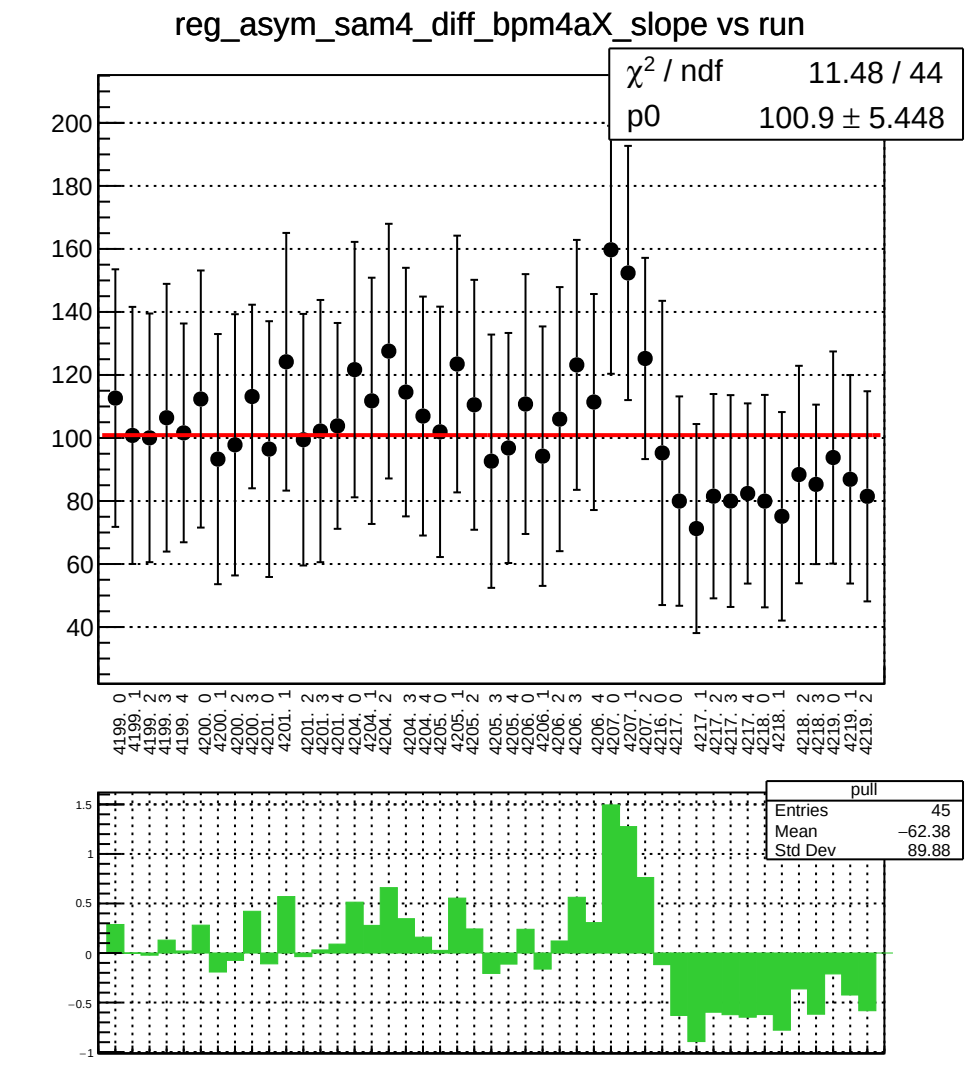

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 134.8 / 44
p0 −958.5 ± 1.666
−920
−930
−940
−950
−960
−970
−980
−990
−1000
−1010
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −280.1
Std Dev 305.4
2
1
0
−1
−2
−3
−4

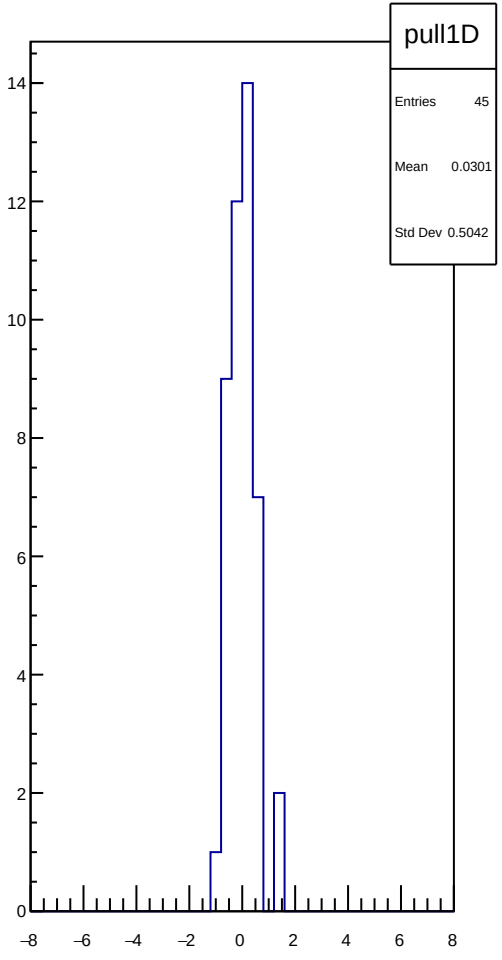

pull1D
Entries 45
Mean 0.05957
Std Dev 1.73
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

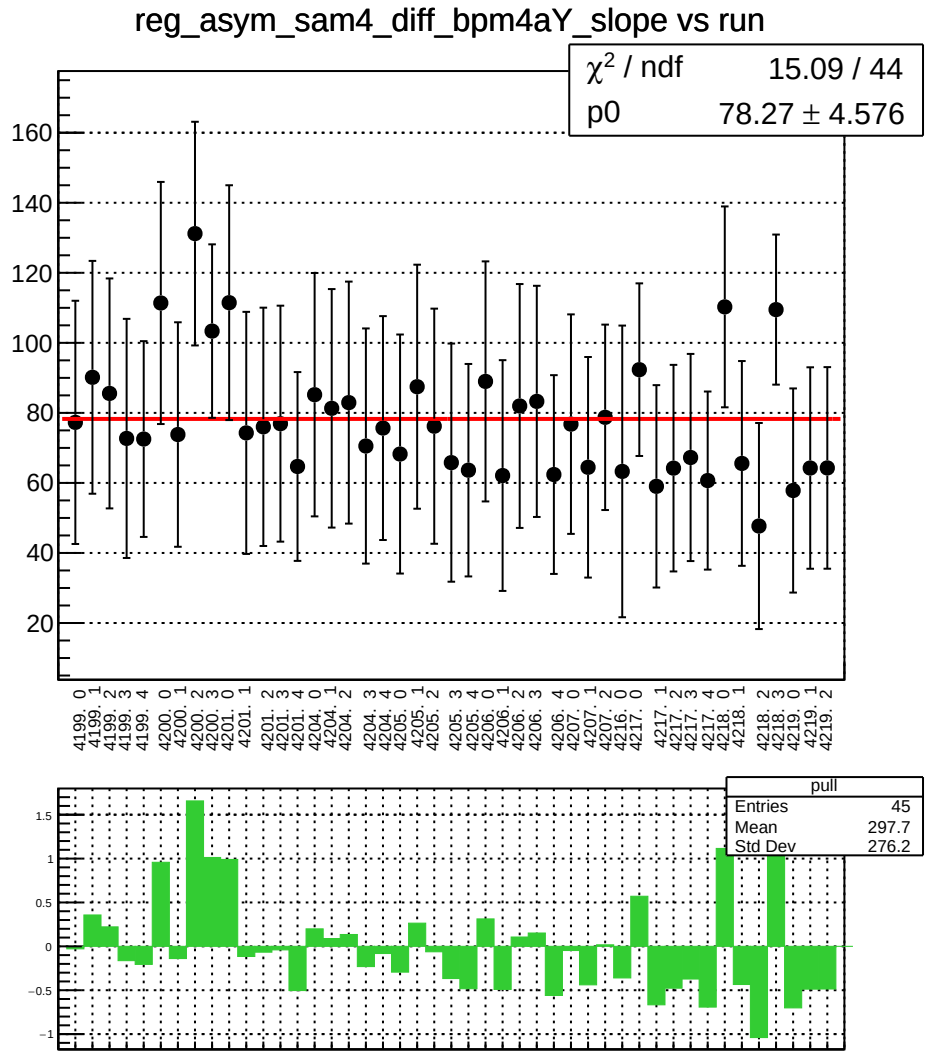

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 9.344 / 44
p0 −52.55 ± 12.73
100
0
−100
−200
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 113
Std Dev 99.43
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.009423
Std Dev 0.4556
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

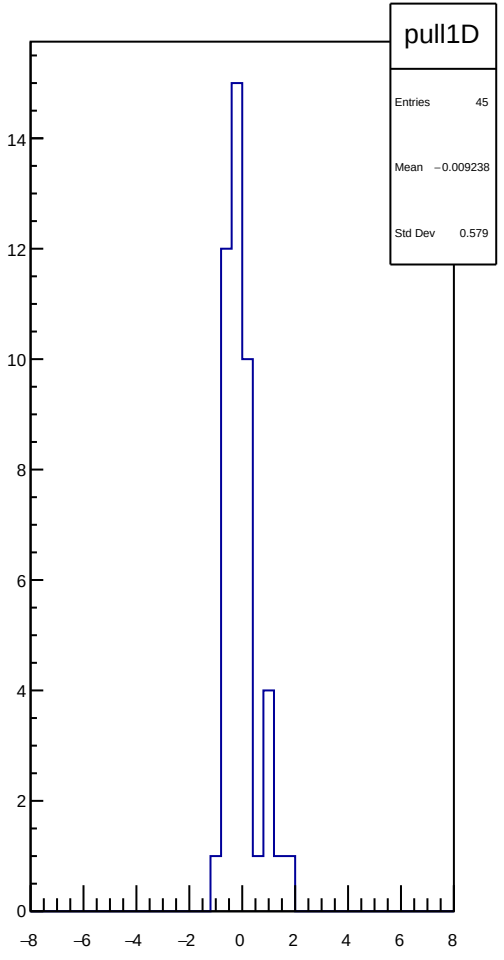

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 2.705 / 44
p0 6.66 ± 2.225
pull
Entries 45
Mean −10.98
Std Dev 37.47

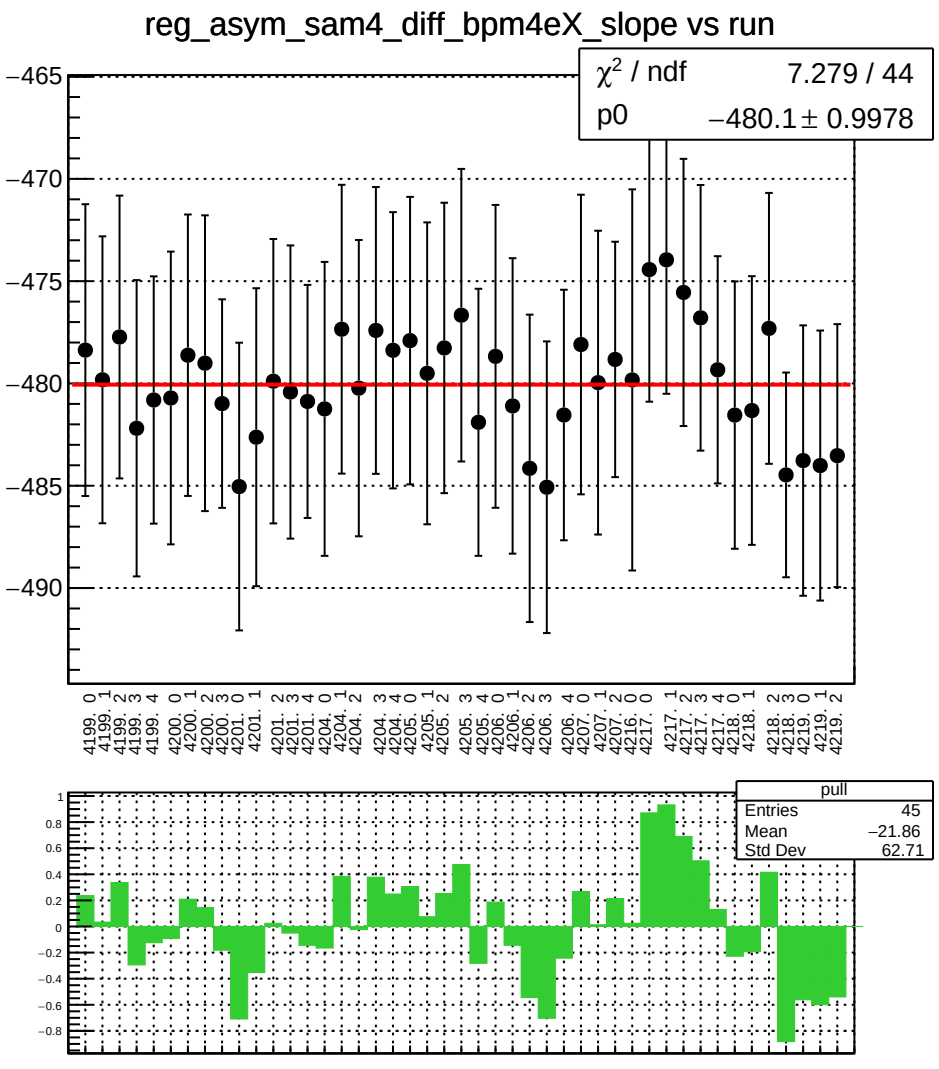

pull1D
Entries 45
Mean 0.04392
Std Dev 0.2412

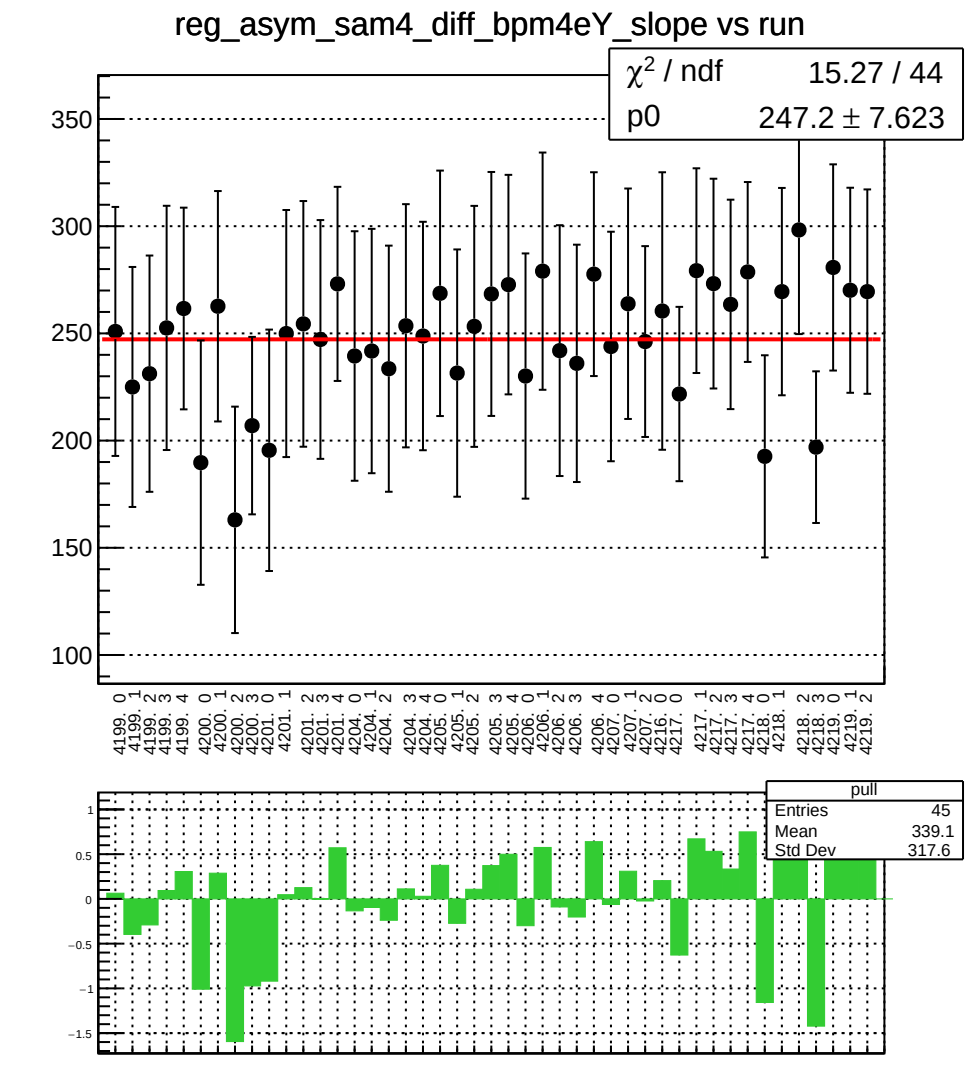

reg_asym_sam4_diff_bpm4aX_slope vs run
χ^2 / ndf 11.48 / 44
p0 100.9 ± 5.448
pull
Entries 45
Mean −62.38
Std Dev 89.88

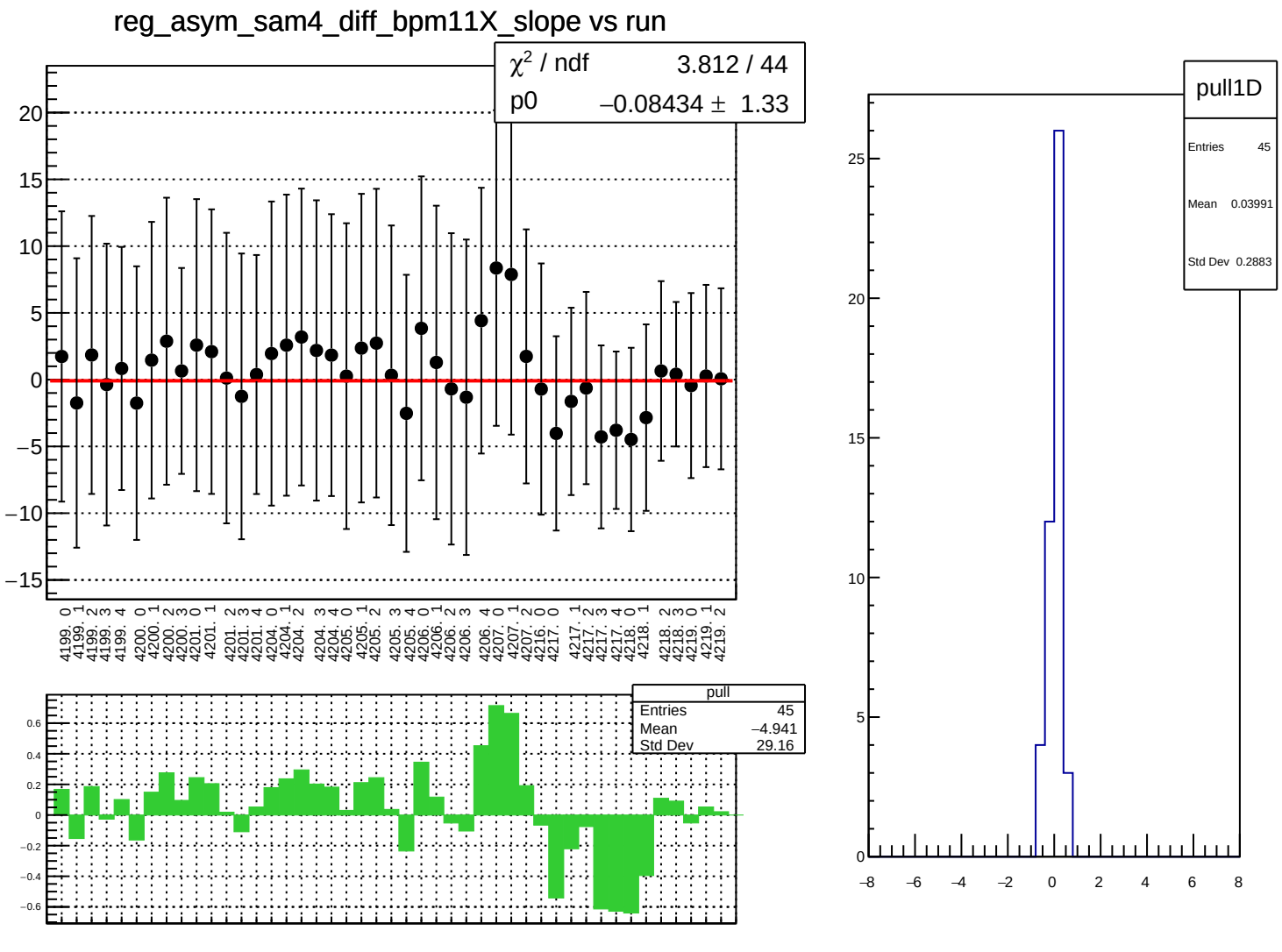

pull1D
Entries 45
Mean 0.0301
Std Dev 0.5042

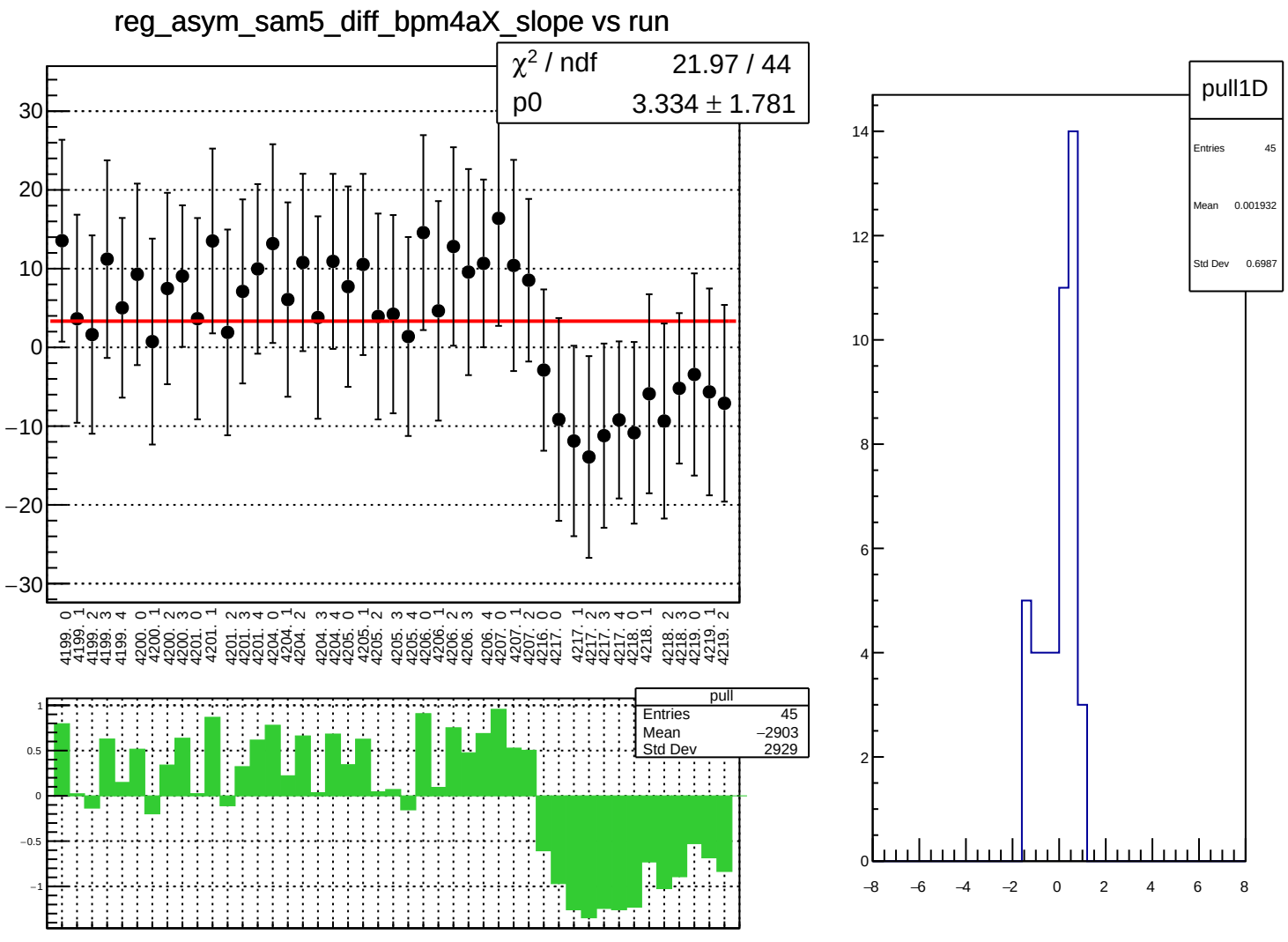

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 15.09 / 44
p0 78.27 ± 4.576
pull
Entries 45
Mean 297.7
Std Dev 276.2

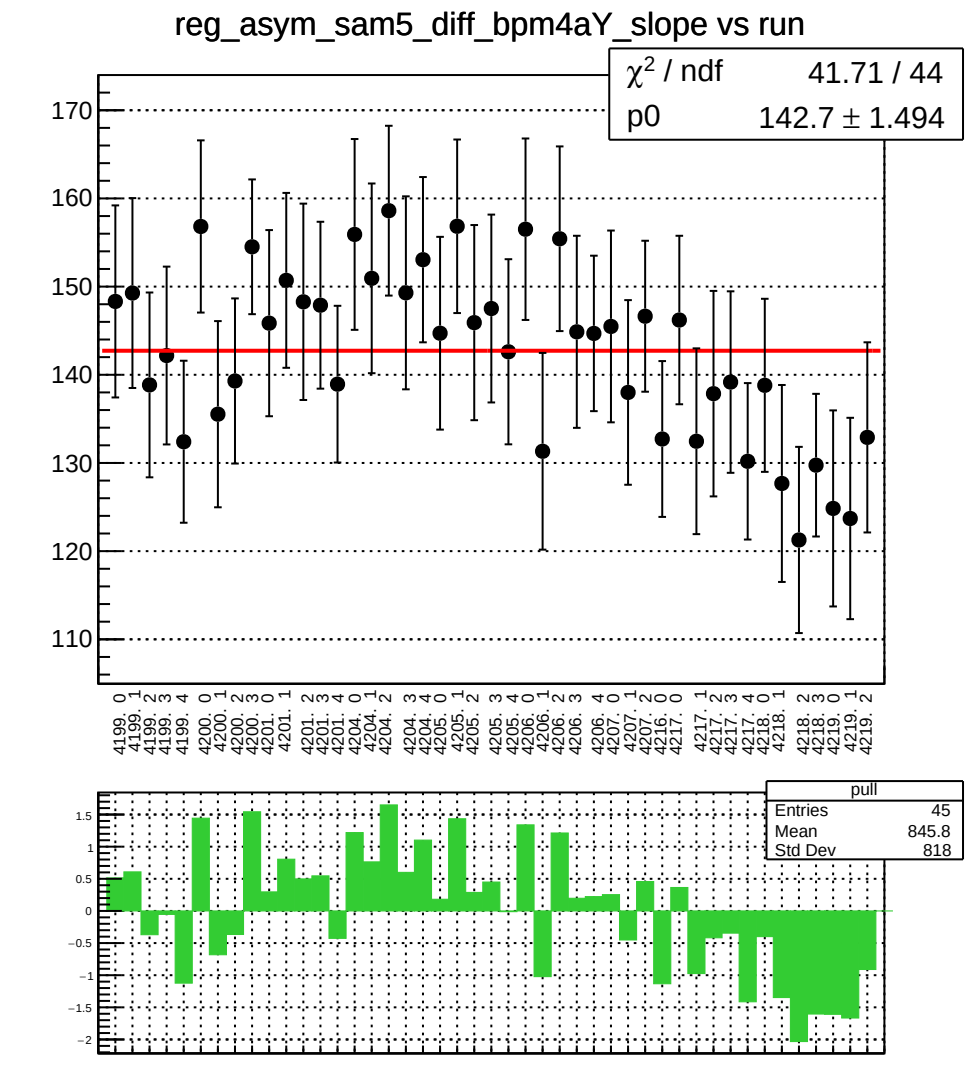

pull1D
Entries 45
Mean −0.009238
Std Dev 0.579

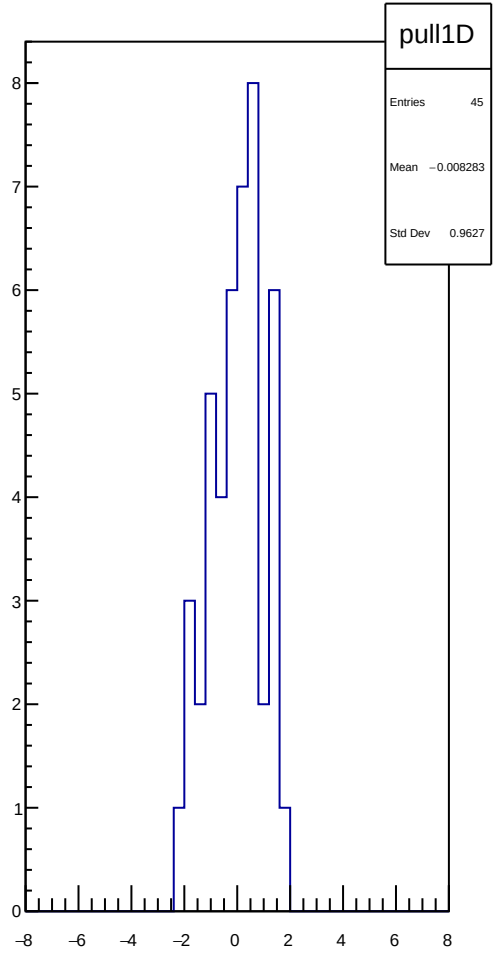

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 7.279 / 44
p0 −480.1 ± 0.9978
−465
−470
−475
−480
−485
−490
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −21.86
Std Dev 62.71
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.006606
Std Dev 0.4021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

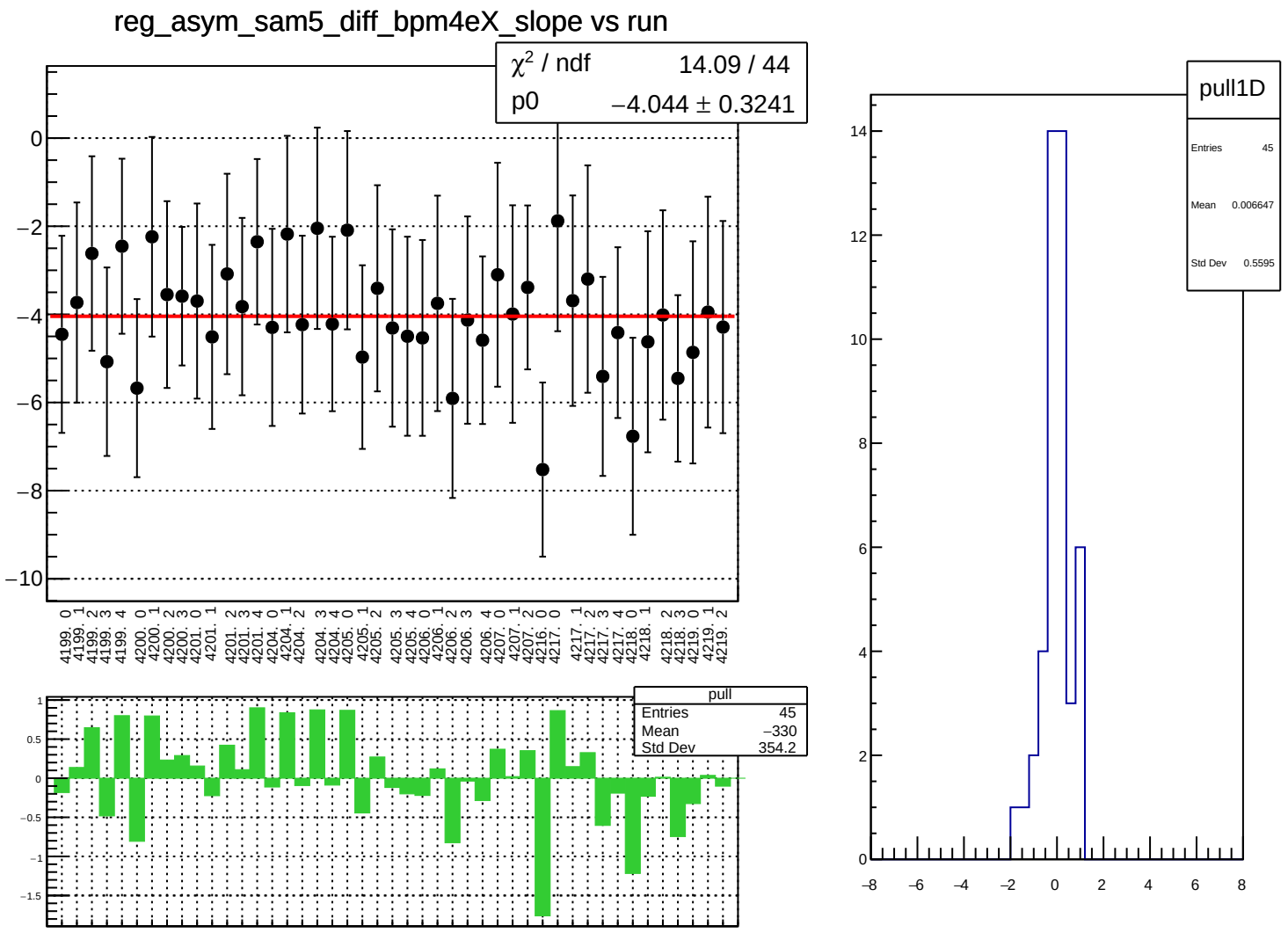

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 15.27 / 44
p0 247.2 ± 7.623
350
300
250
200
150
100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 339.1
Std Dev 317.6
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.007695
Std Dev 0.5824
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

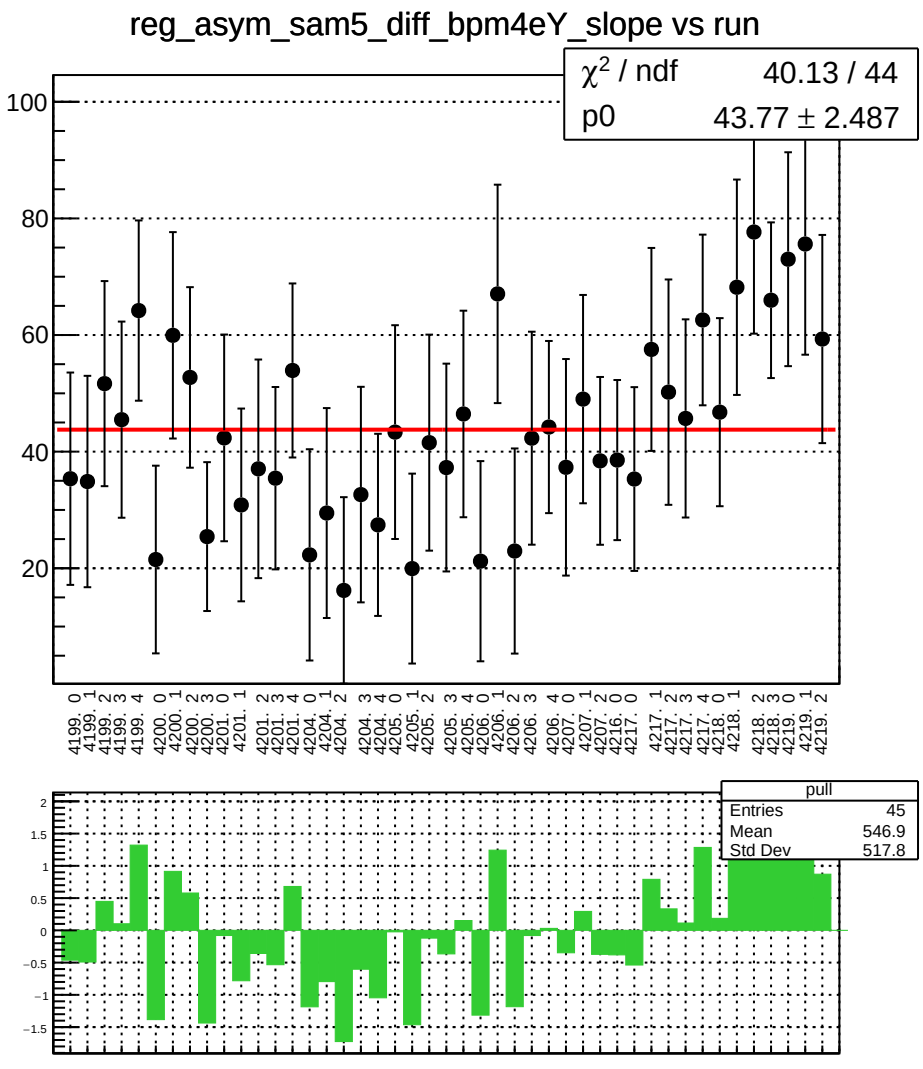

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 3.812 / 44
p0 −0.08434 ± 1.33
pull
Entries 45
Mean −4.941
Std Dev 29.16
pull1D
Entries 45
Mean 0.03991
Std Dev 0.2883

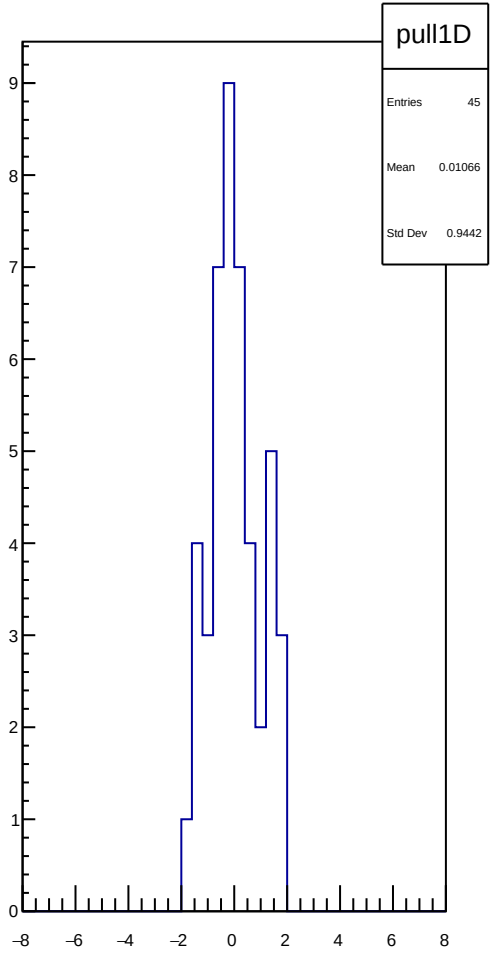

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 21.97 / 44
p0 3.334 ± 1.781
pull
Entries 45
Mean −2903
Std Dev 2929
pull1D
Entries 45
Mean 0.001932
Std Dev 0.6987

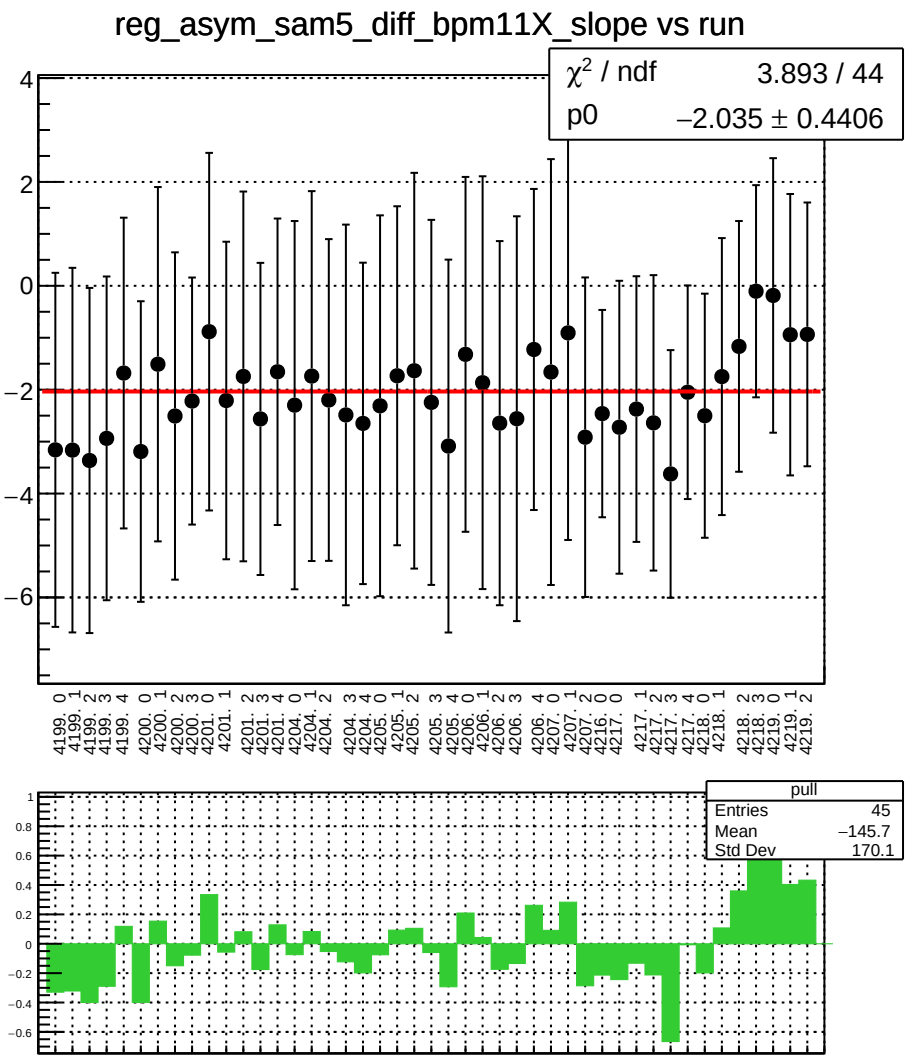

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 41.71 / 44
p0 142.7 ± 1.494
pull
Entries 45
Mean 845.8
Std Dev 818

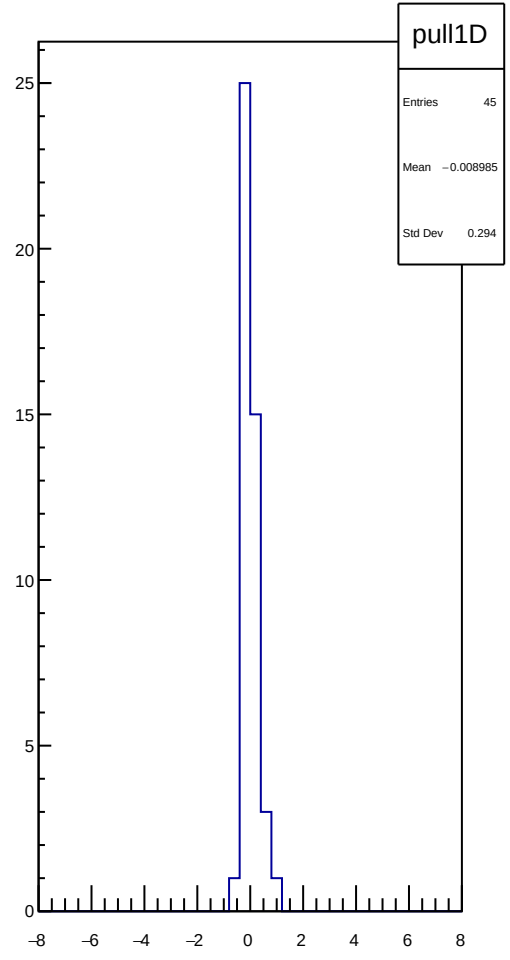

pull1D
Entries 45
Mean −0.008283
Std Dev 0.9627

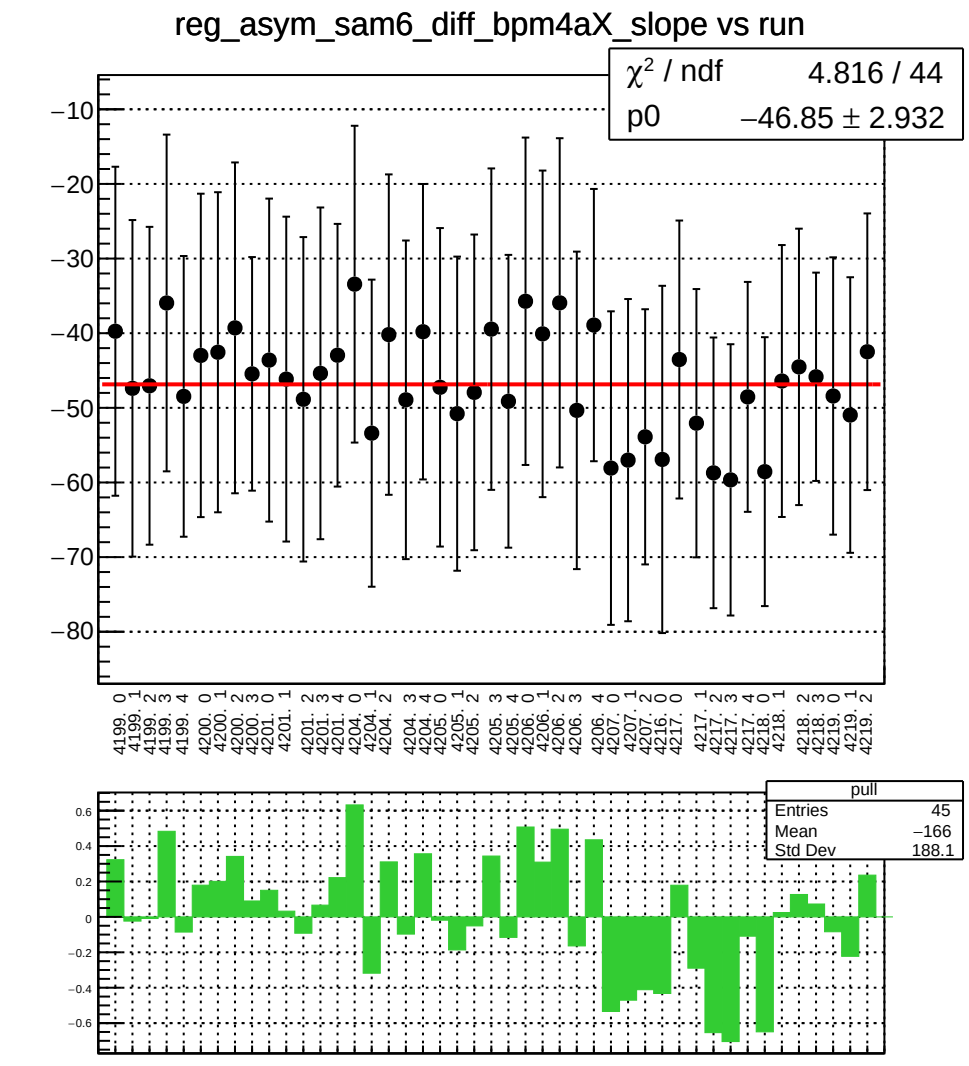

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 14.09 / 44
p0 −4.044 ± 0.3241
pull
Entries 45
Mean −330
Std Dev 354.2
pull1D
Entries 45
Mean 0.006647
Std Dev 0.5595

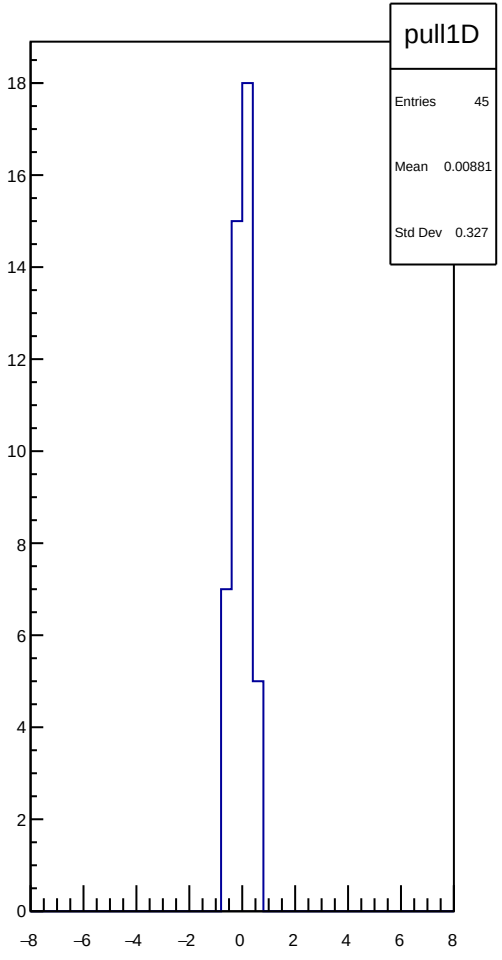

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 40.13 / 44
p0 43.77 ± 2.487
pull
Entries 45
Mean 546.9
Std Dev 517.8

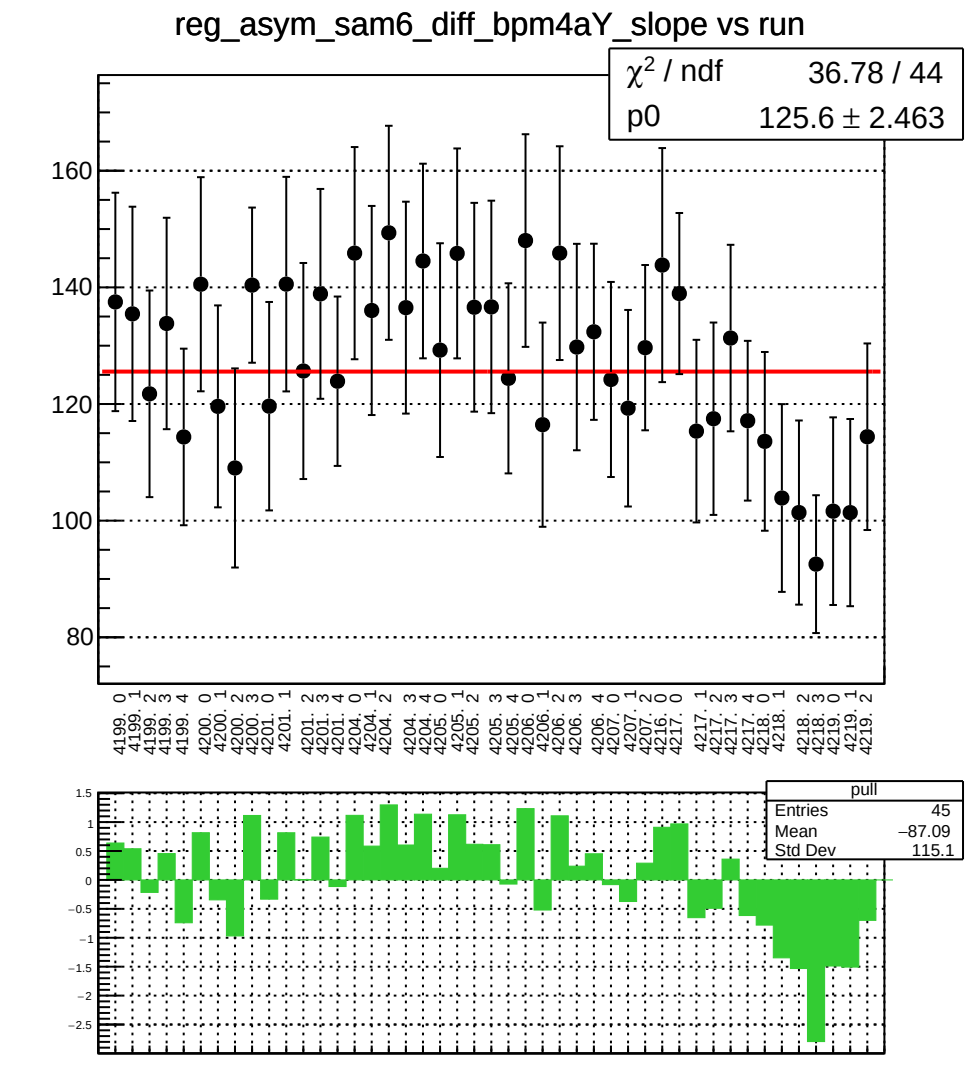

pull1D
Entries 45
Mean 0.01066
Std Dev 0.9442

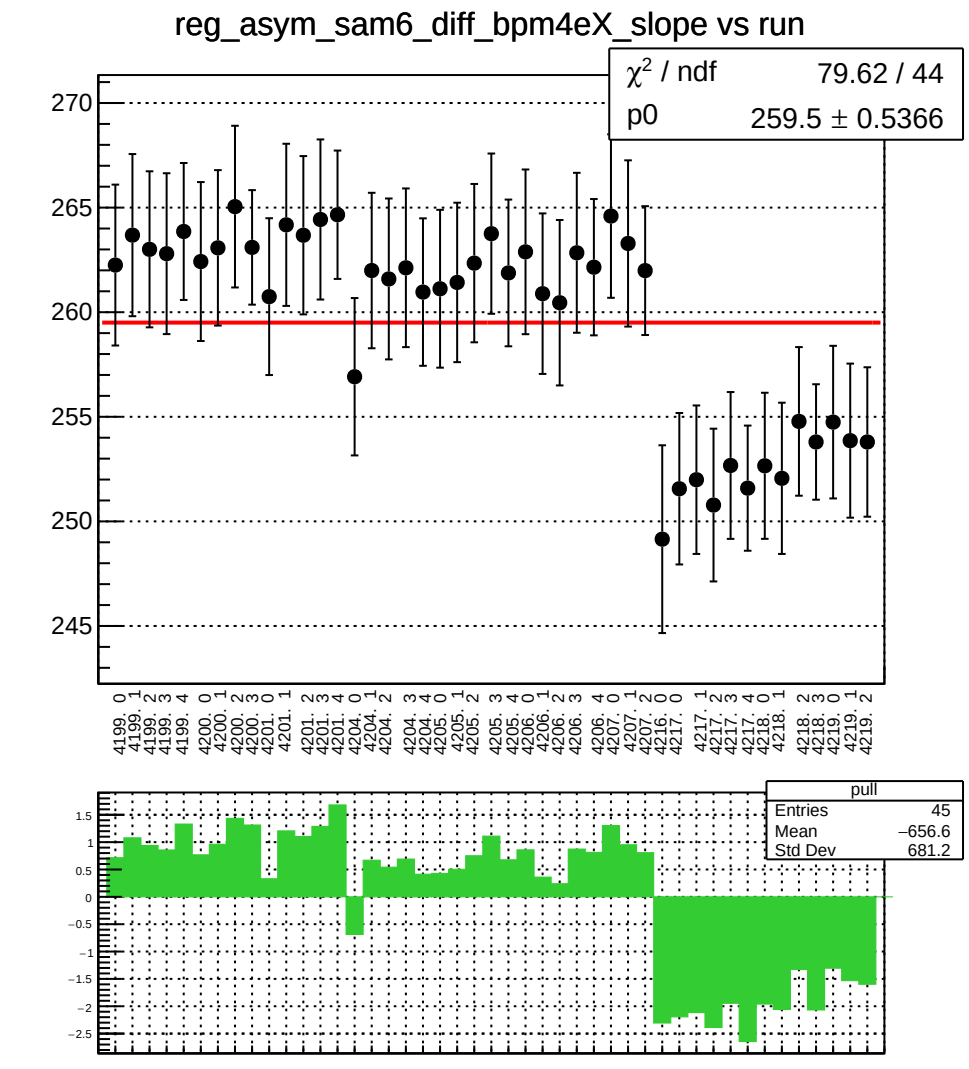

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 3.893 / 44
p0 −2.035 ± 0.4406
pull
Entries 45
Mean −145.7
Std Dev 170.1

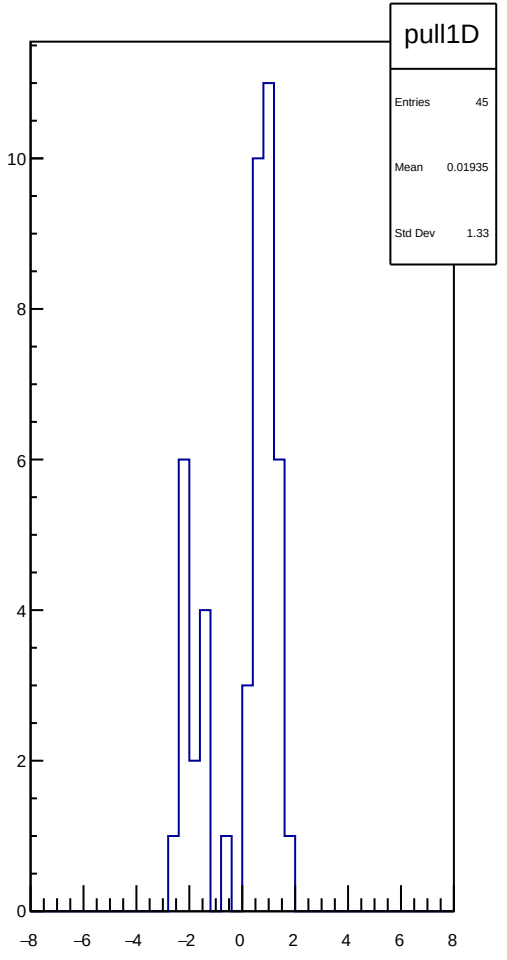

pull1D
Entries 45
Mean −0.008985
Std Dev 0.294

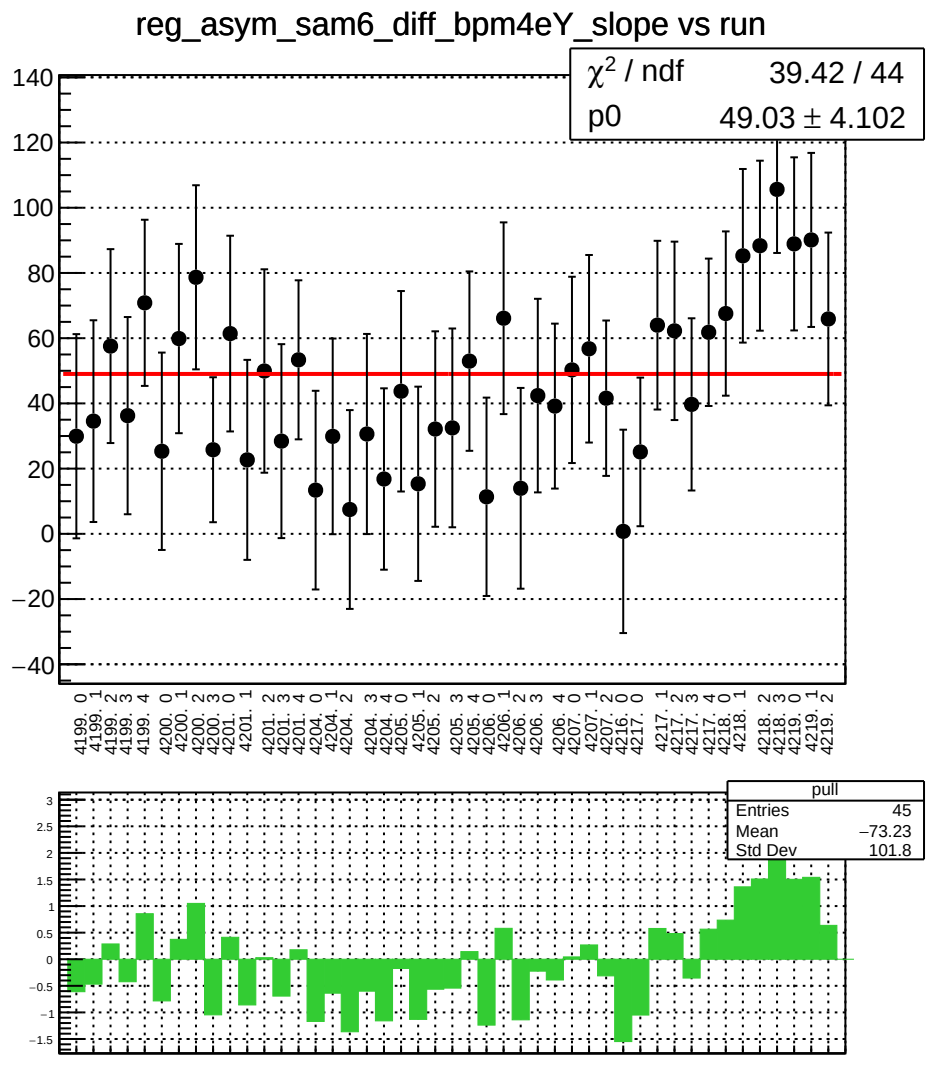

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 4.816 / 44
p0 −46.85 ± 2.932
pull
Entries 45
Mean −166
Std Dev 188.1

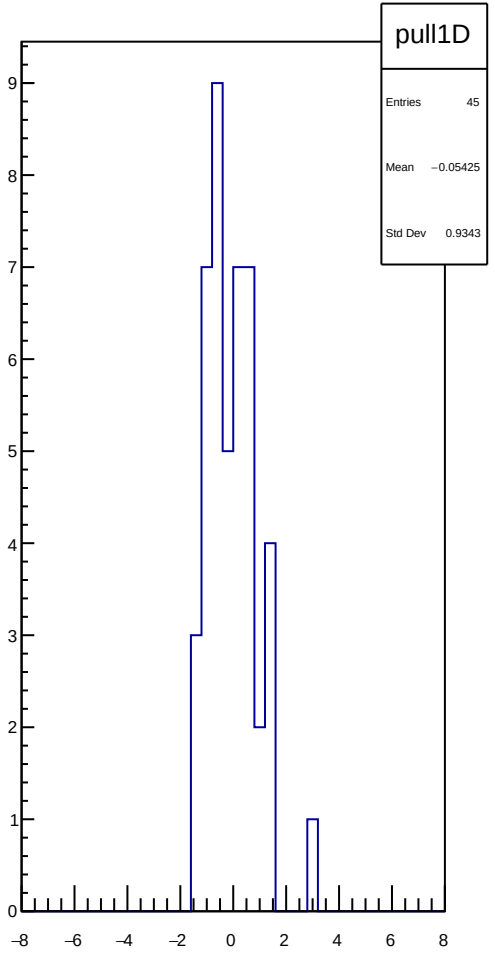

pull1D
Entries 45
Mean 0.00881
Std Dev 0.327

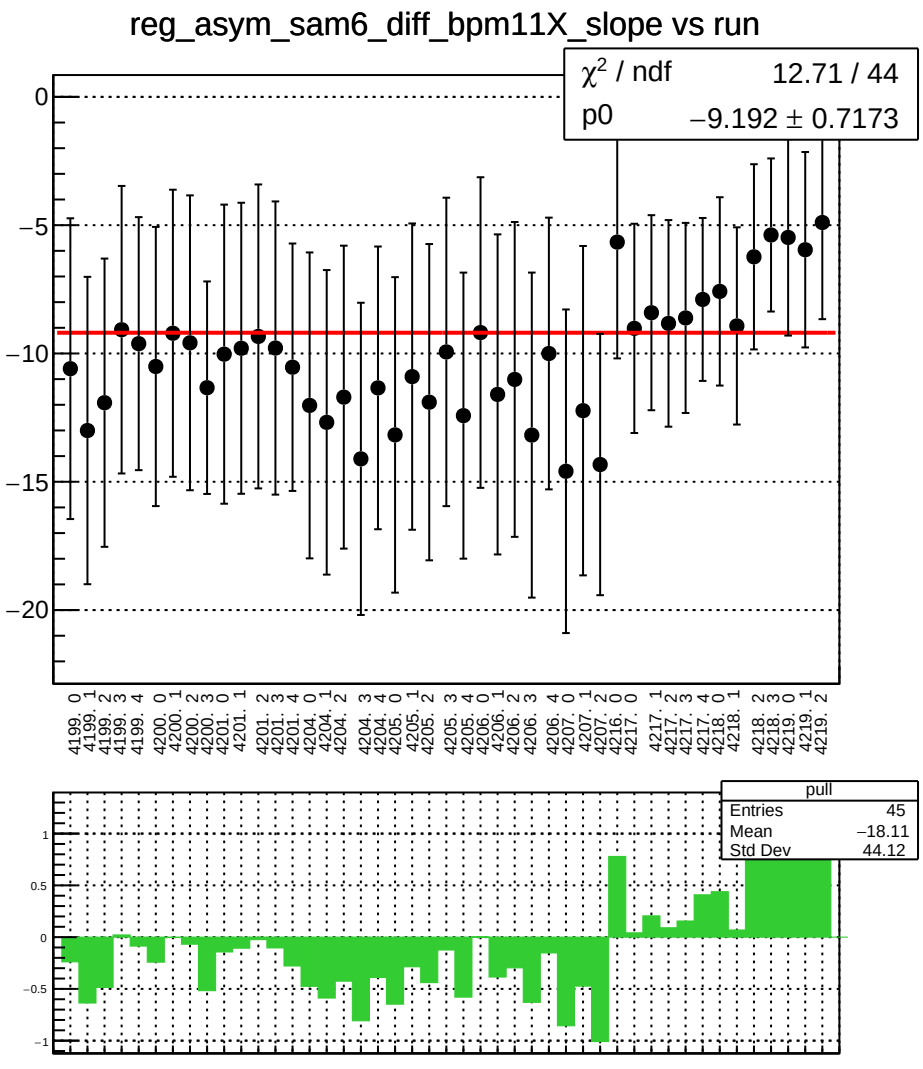

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 36.78 / 44
p0 125.6 ± 2.463
160
140
120
100
80
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −87.09
Std Dev 115.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.05125
Std Dev 0.9026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

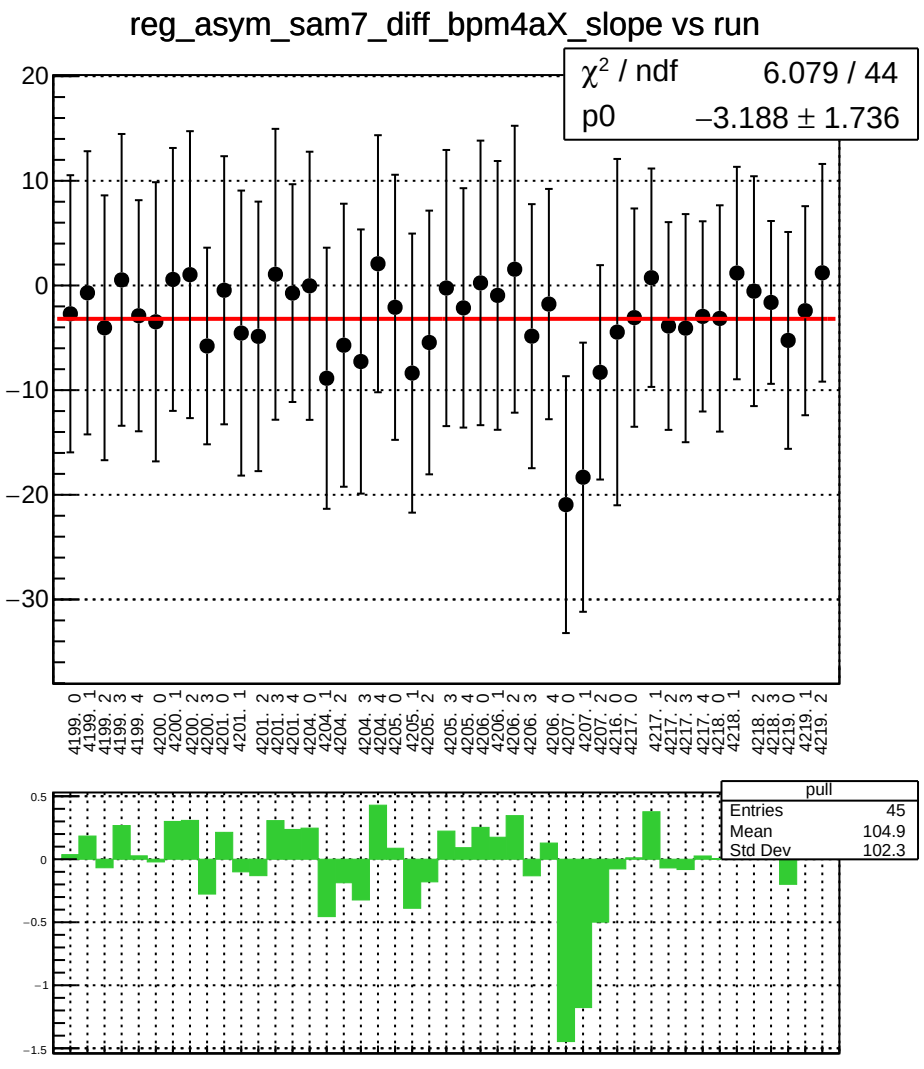

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 79.62 / 44
p0 259.5 ± 0.5366
270
265
260
255
250
245
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −656.6
Std Dev 681.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

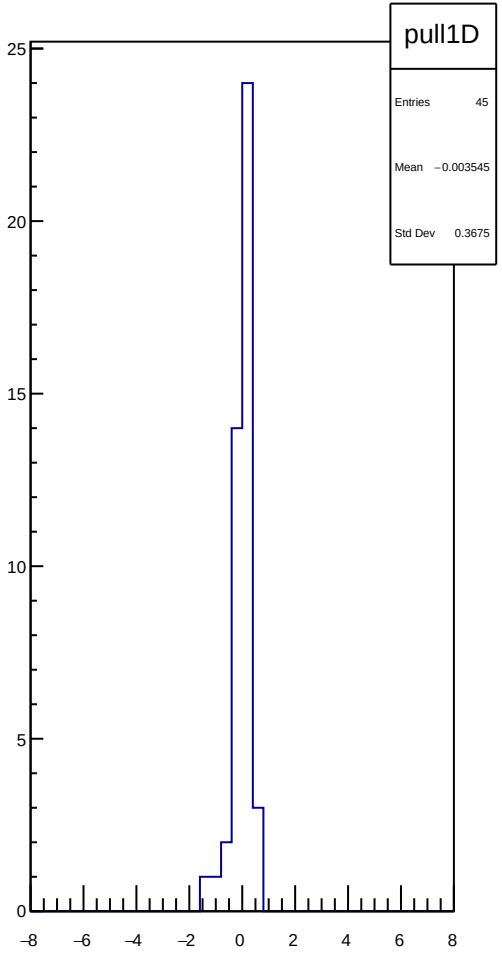

pull1D
Entries 45
Mean 0.01935
Std Dev 1.33
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

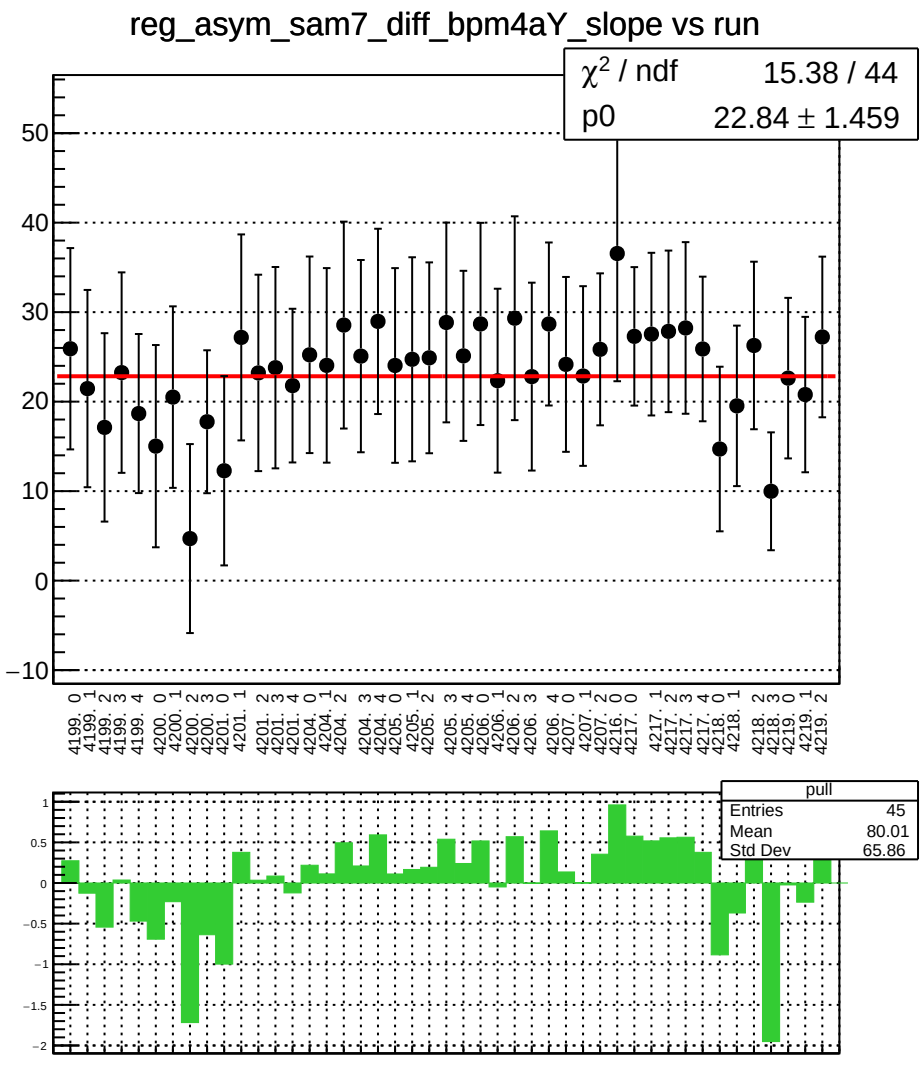

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 39.42 / 44
p0 49.03 ± 4.102
pull
Entries 45
Mean −73.23
Std Dev 101.8

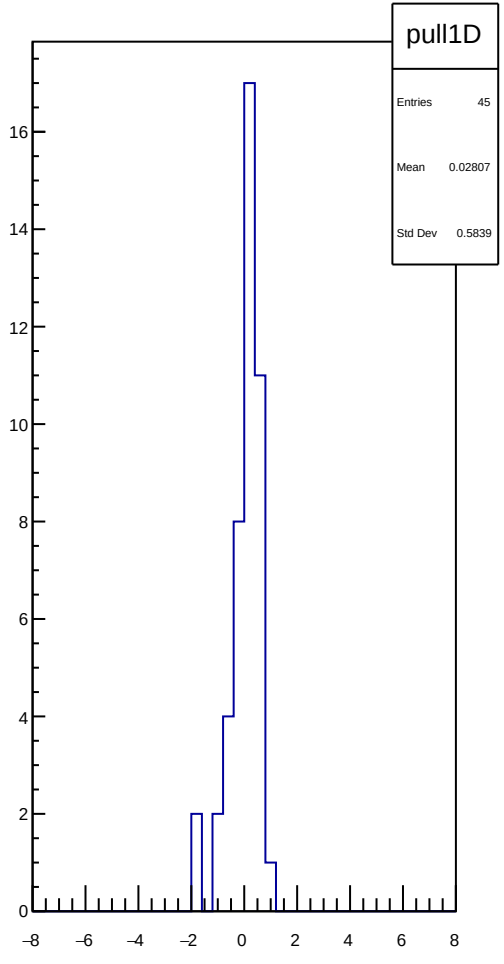

pull1D
Entries 45
Mean −0.05425
Std Dev 0.9343

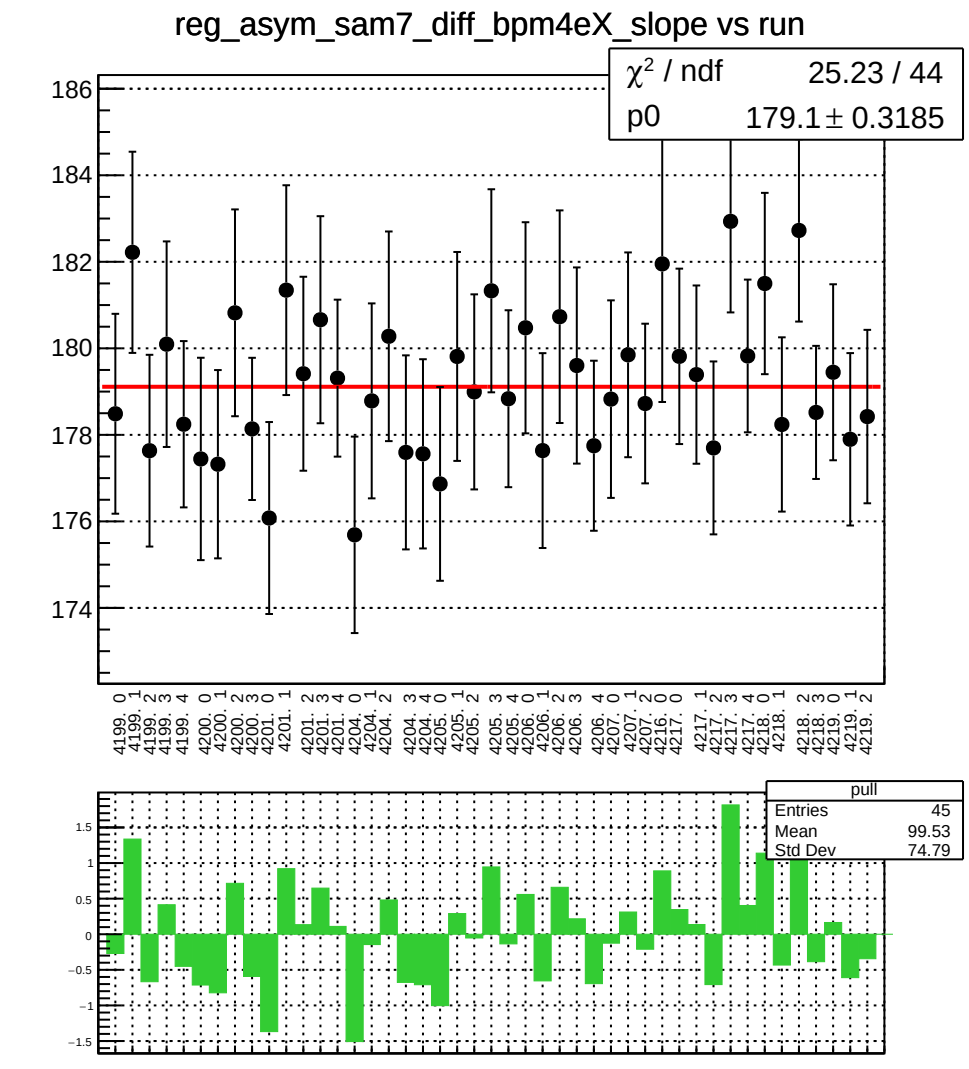

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 12.71 / 44
p0 −9.192 ± 0.7173
0
−5
−10
−15
−20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −18.11
Std Dev 44.12
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.09403
Std Dev 0.523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

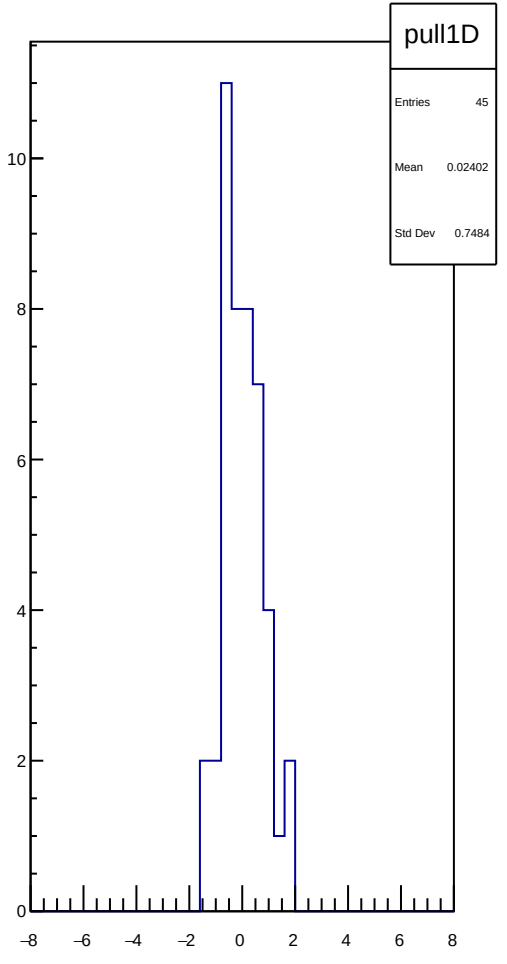

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 6.079 / 44
p0 −3.188 ± 1.736
pull
Entries 45
Mean 104.9
Std Dev 102.3

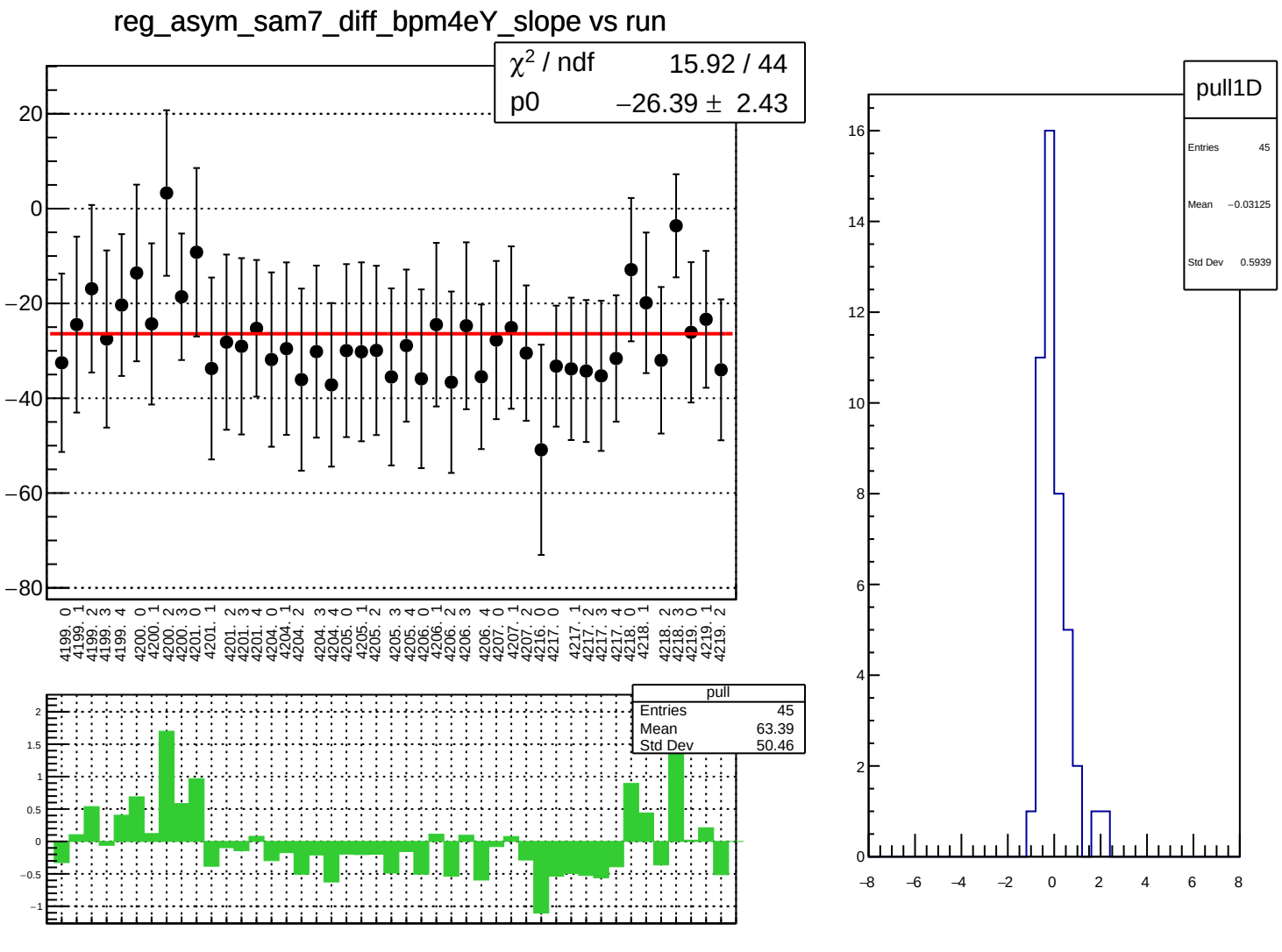

pull1D
Entries 45
Mean −0.003545
Std Dev 0.3675

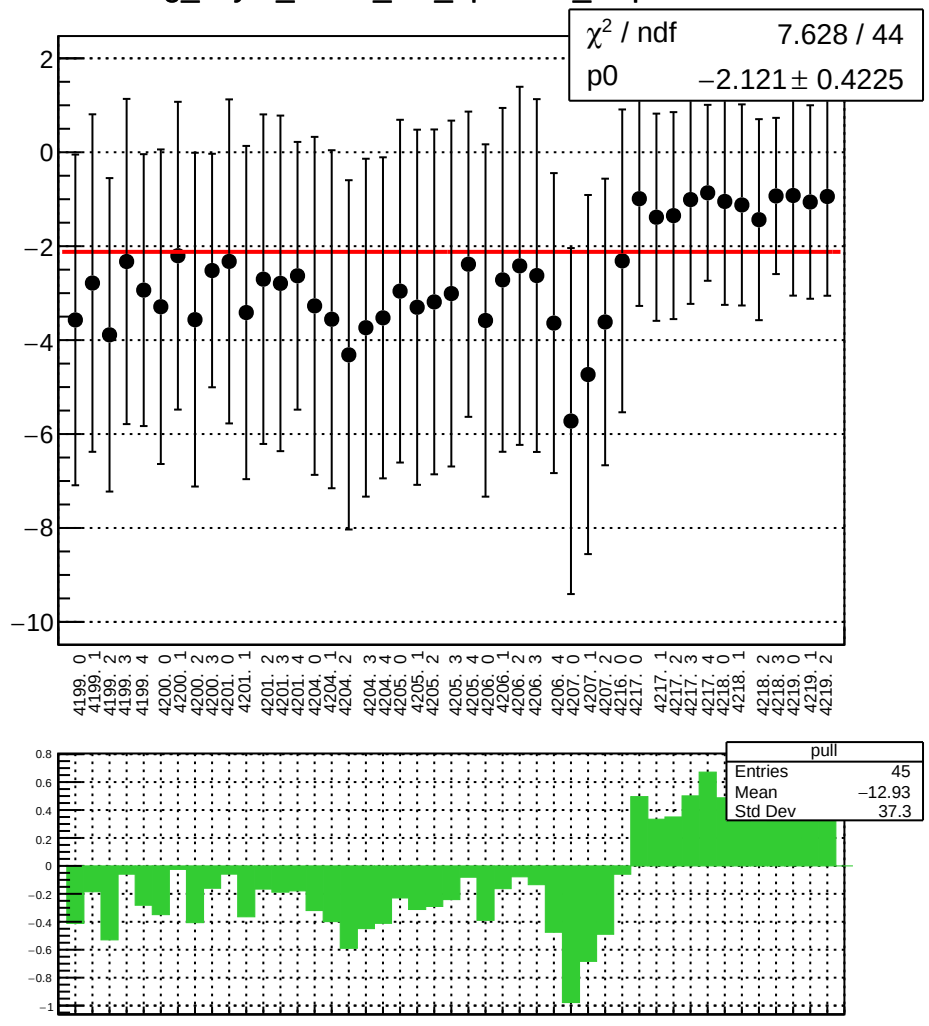

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 15.38 / 44
p0 22.84 ± 1.459
pull
Entries 45
Mean 80.01
Std Dev 65.86

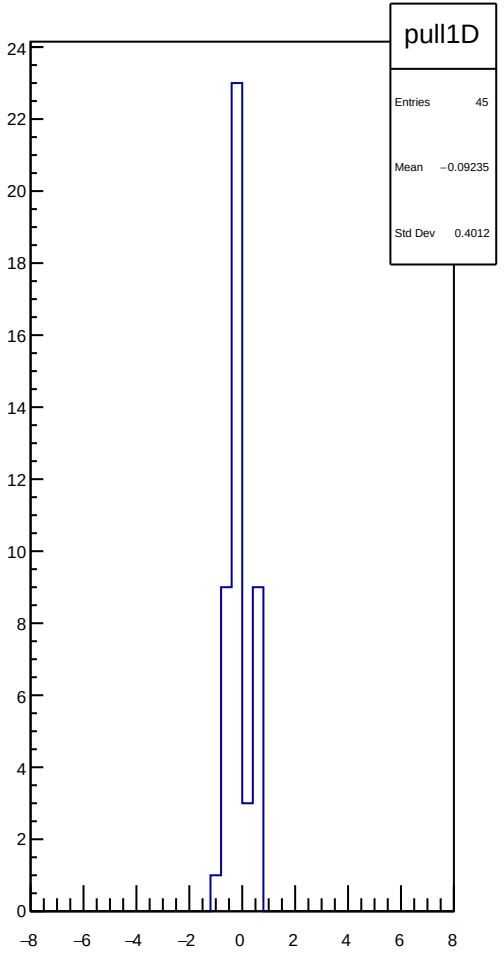

pull1D
Entries 45
Mean 0.02807
Std Dev 0.5839

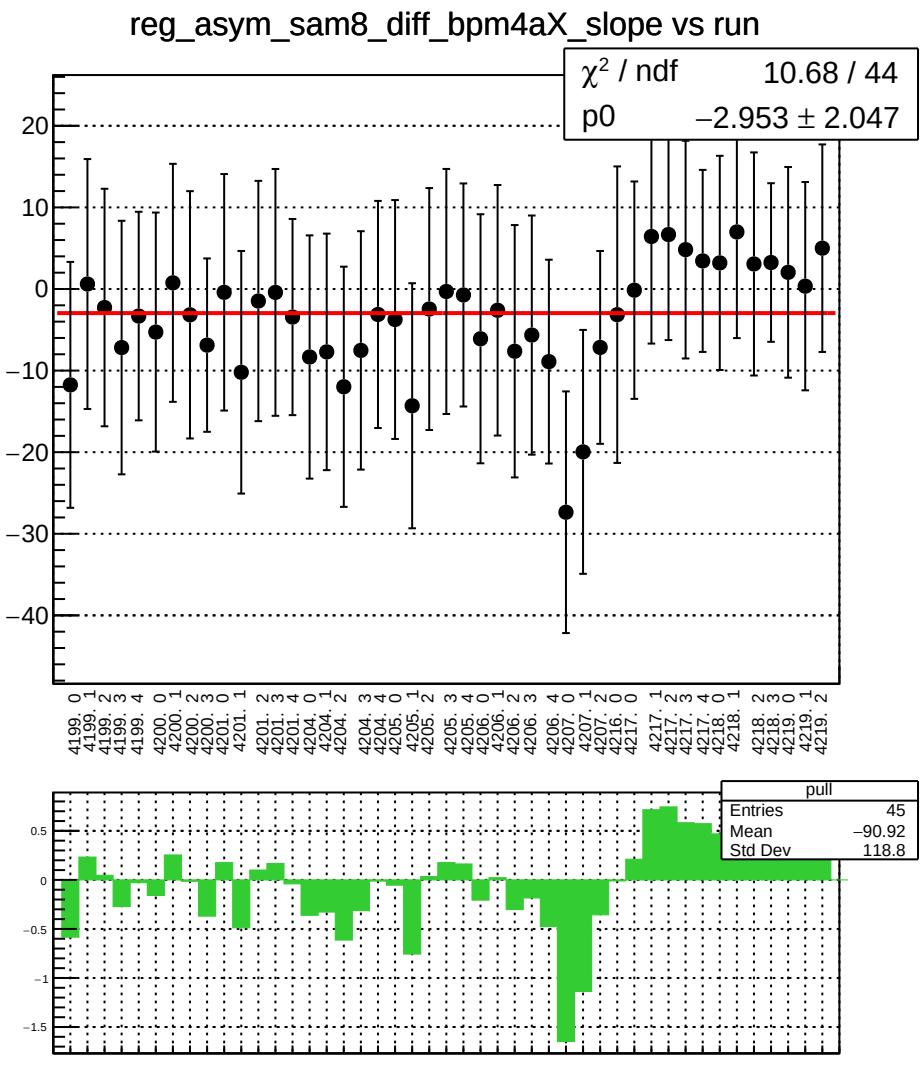

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 25.23 / 44
p0 179.1 ± 0.3185
186
184
182
180
178
176
174
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 99.53
Std Dev 74.79
1.5
1
0.5
0
−0.5
−1
−1.5

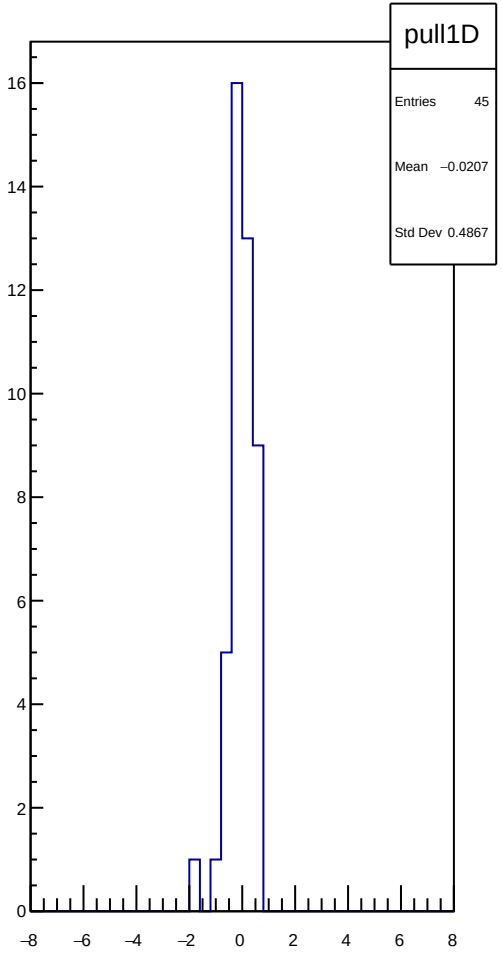

pull1D
Entries 45
Mean 0.02402
Std Dev 0.7484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

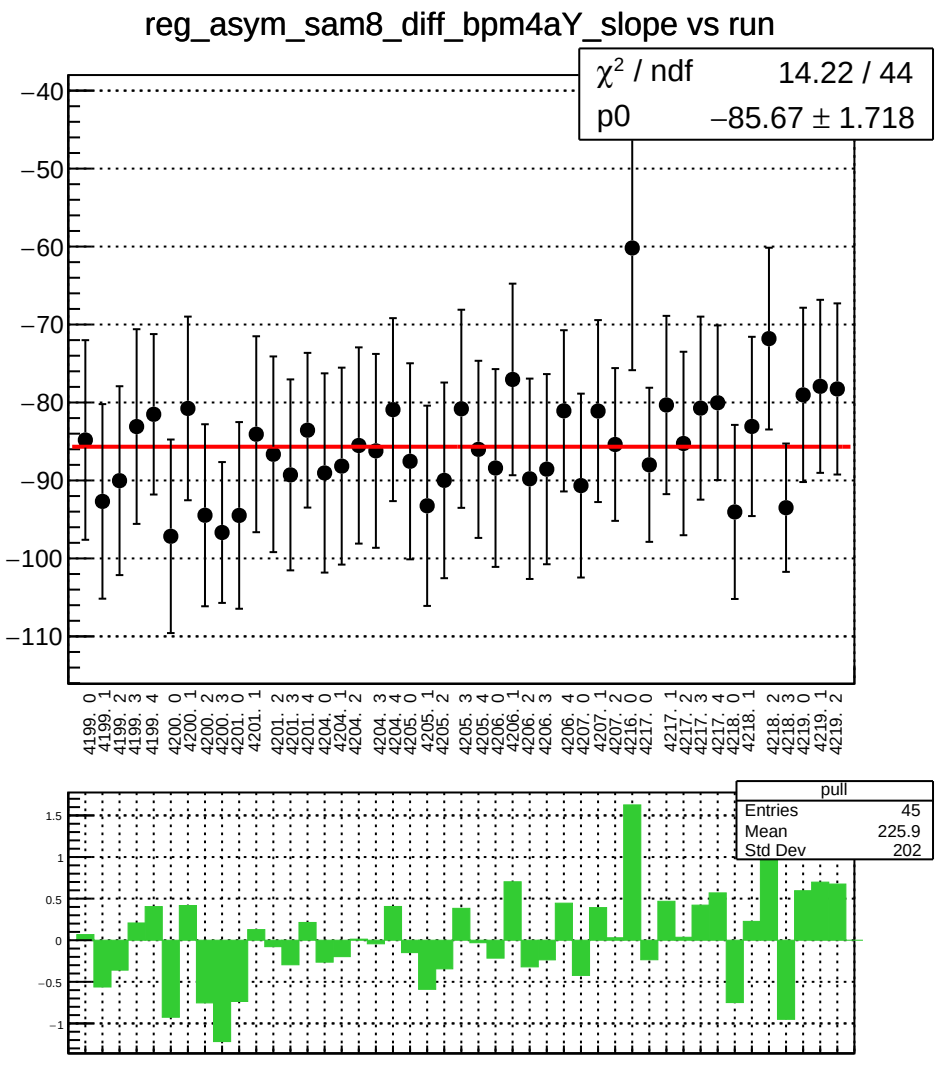

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 15.92 / 44
p0 −26.39 ± 2.43
pull
Entries 45
Mean 63.39
Std Dev 50.46
pull1D
Entries 45
Mean −0.03125
Std Dev 0.5939

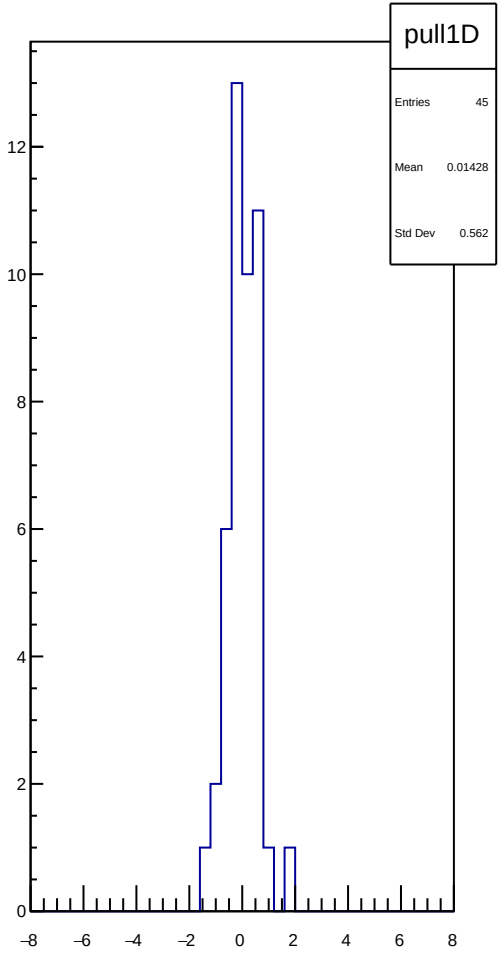

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 7.628 / 44
p0 −2.121 ± 0.4225
pull
Entries 45
Mean −12.93
Std Dev 37.3

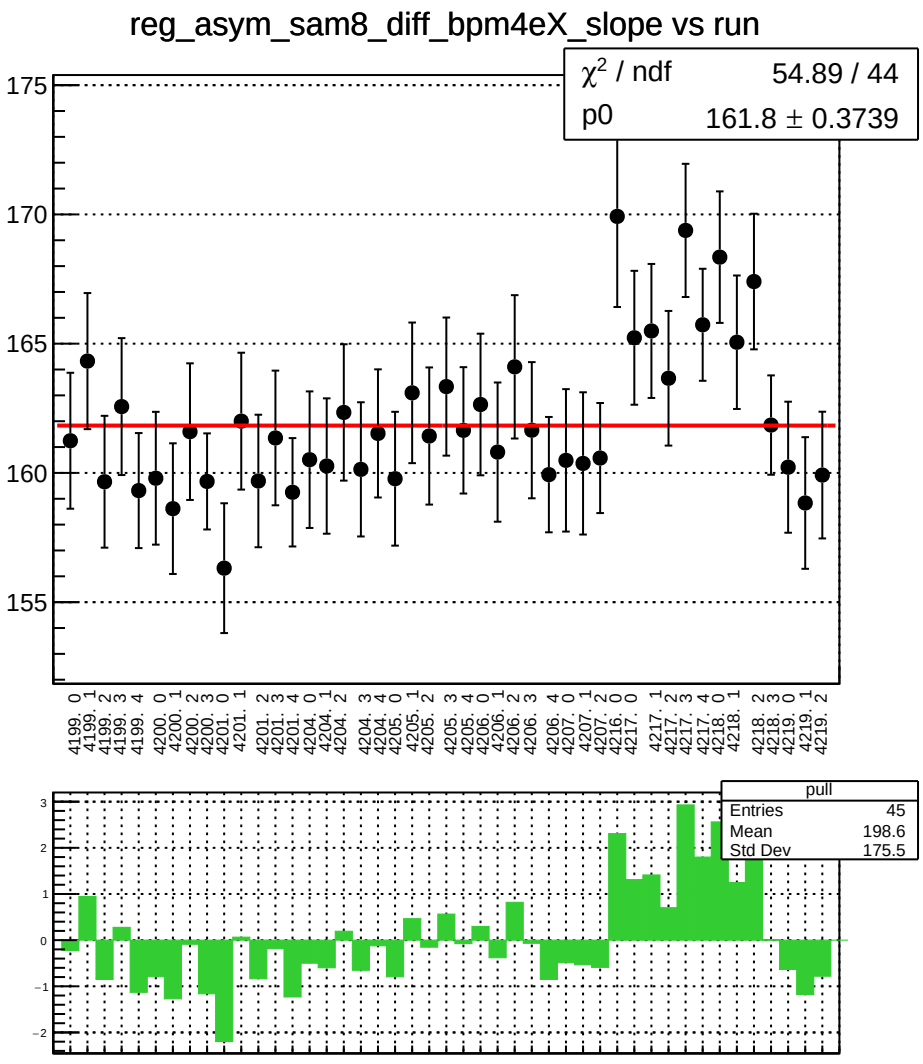

pull1D
Entries 45
Mean −0.09235
Std Dev 0.4012

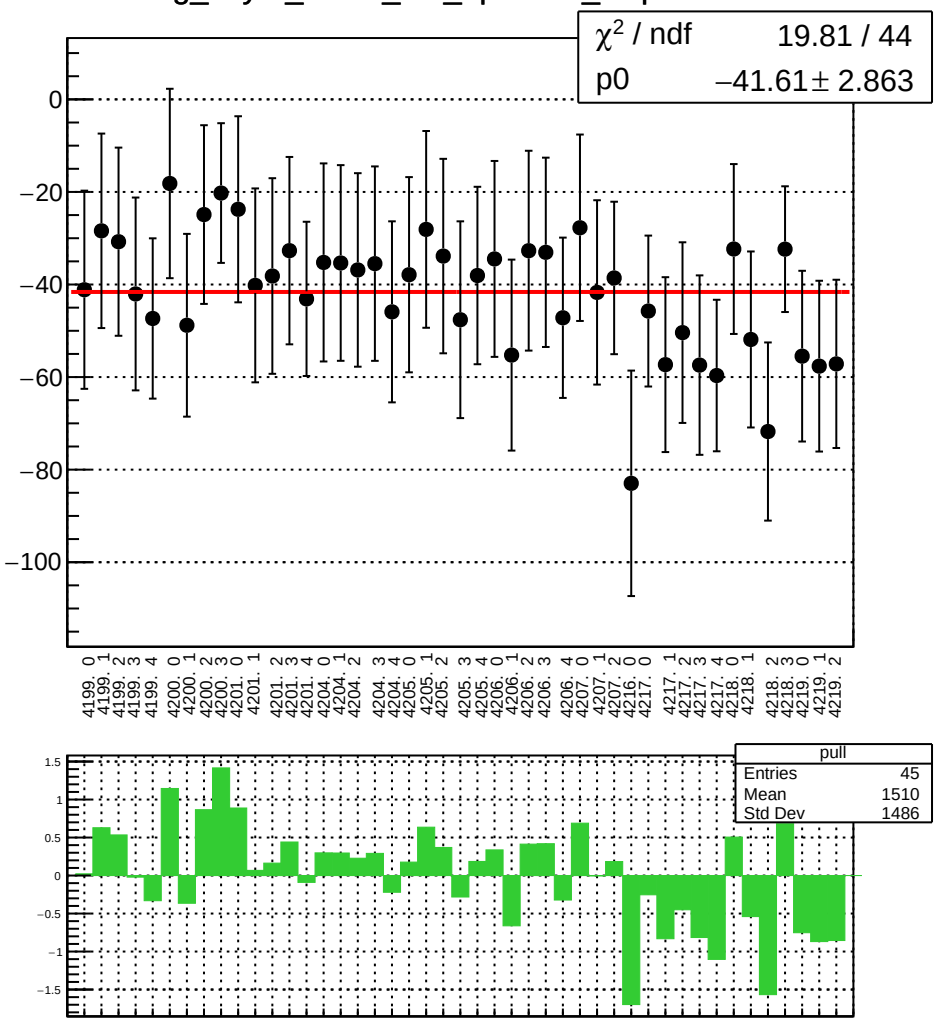

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 10.68 / 44
p0 −2.953 ± 2.047
pull
Entries 45
Mean −90.92
Std Dev 118.8

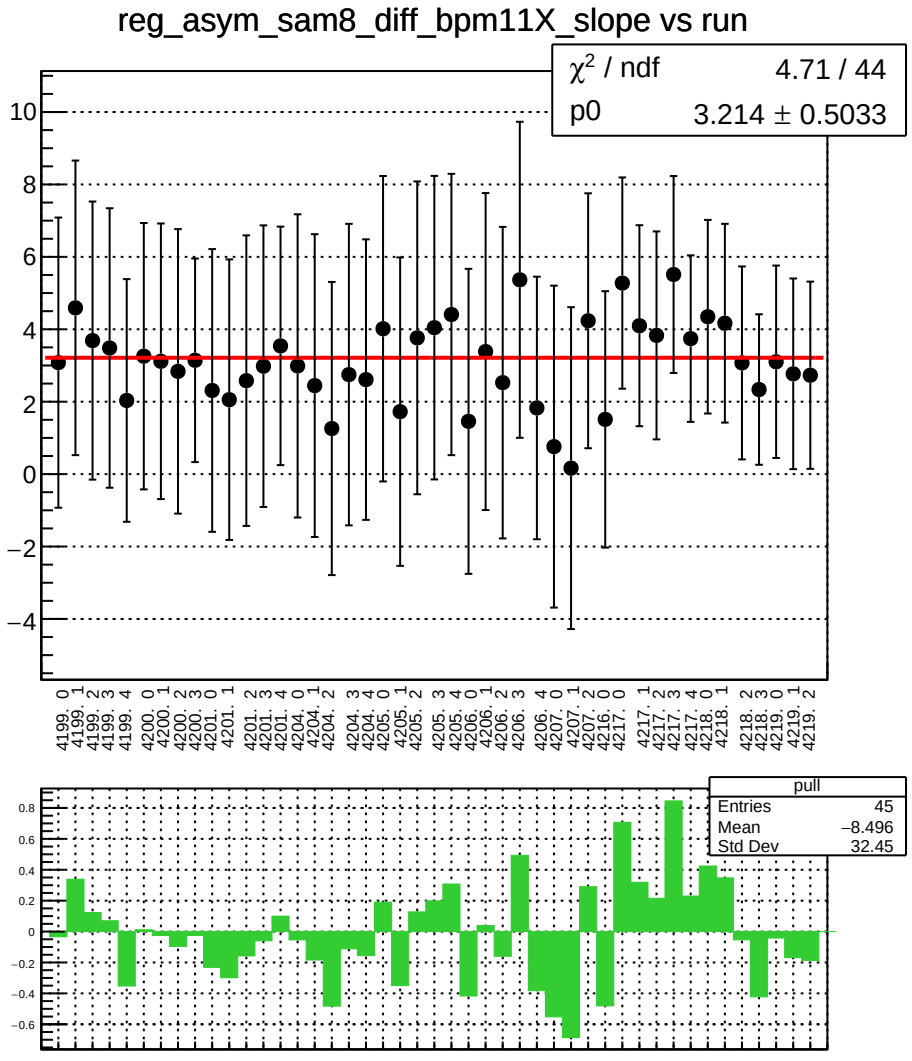

pull1D
Entries 45
Mean −0.0207
Std Dev 0.4867

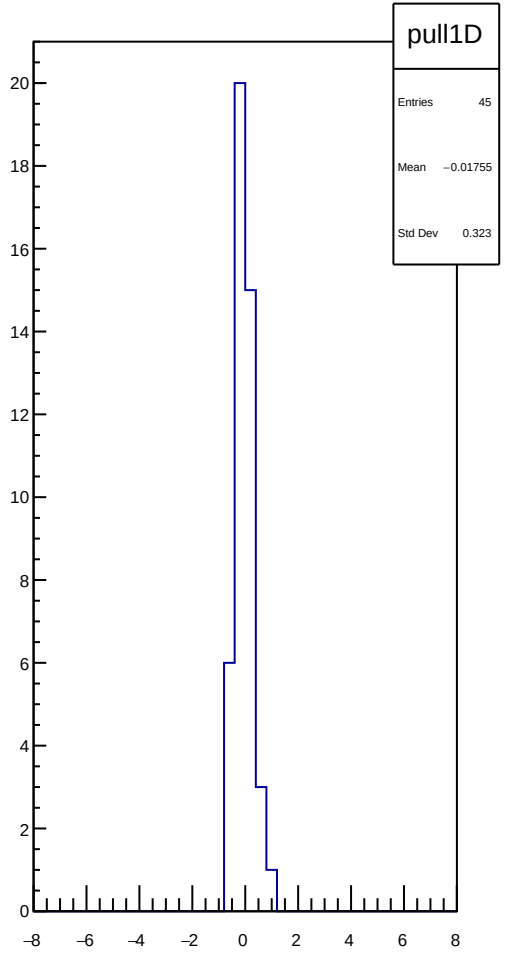

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 14.22 / 44
p0 −85.67 ± 1.718
pull
Entries 45
Mean 225.9
Std Dev 202

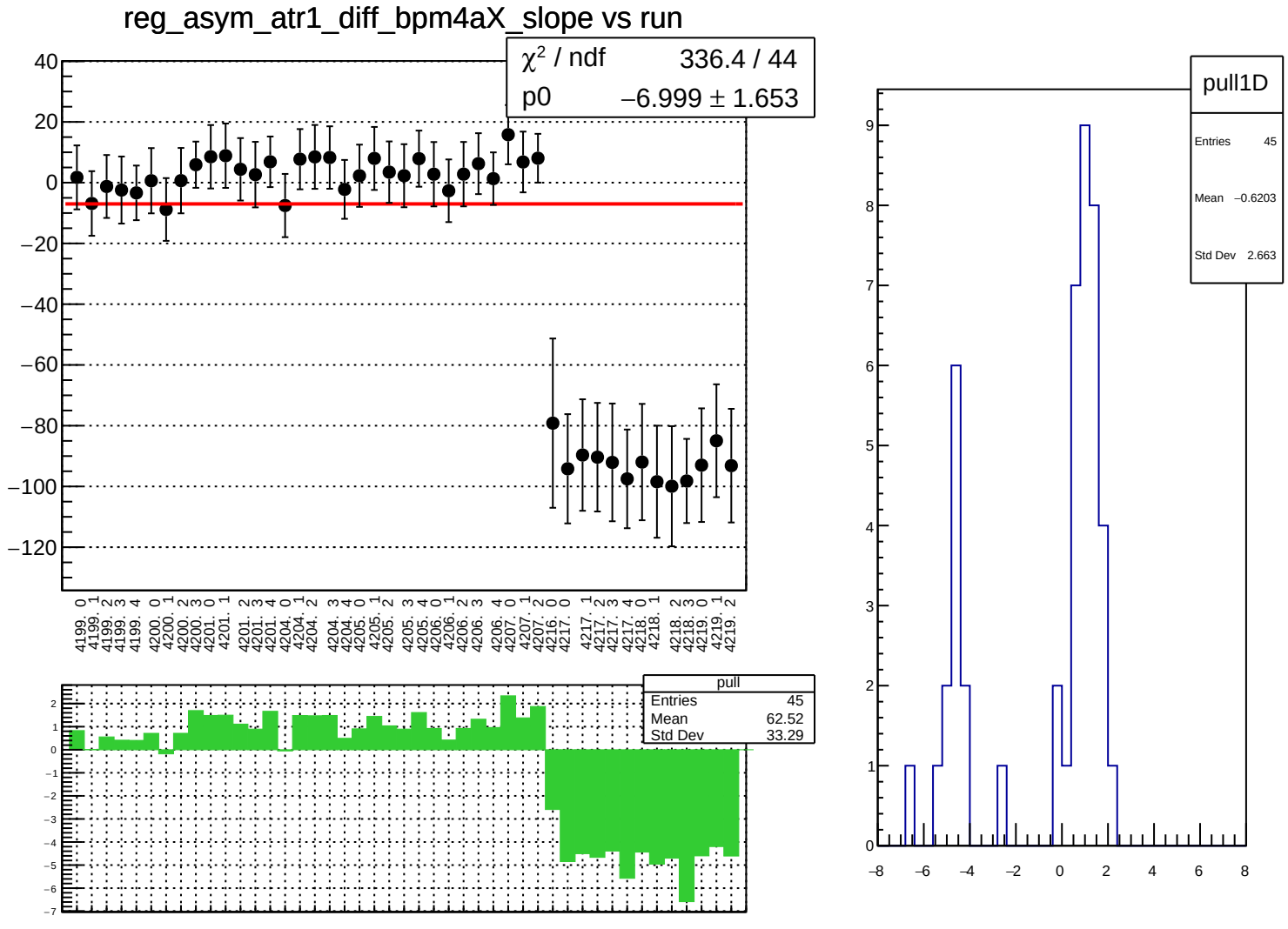

pull1D
Entries 45
Mean 0.01428
Std Dev 0.562

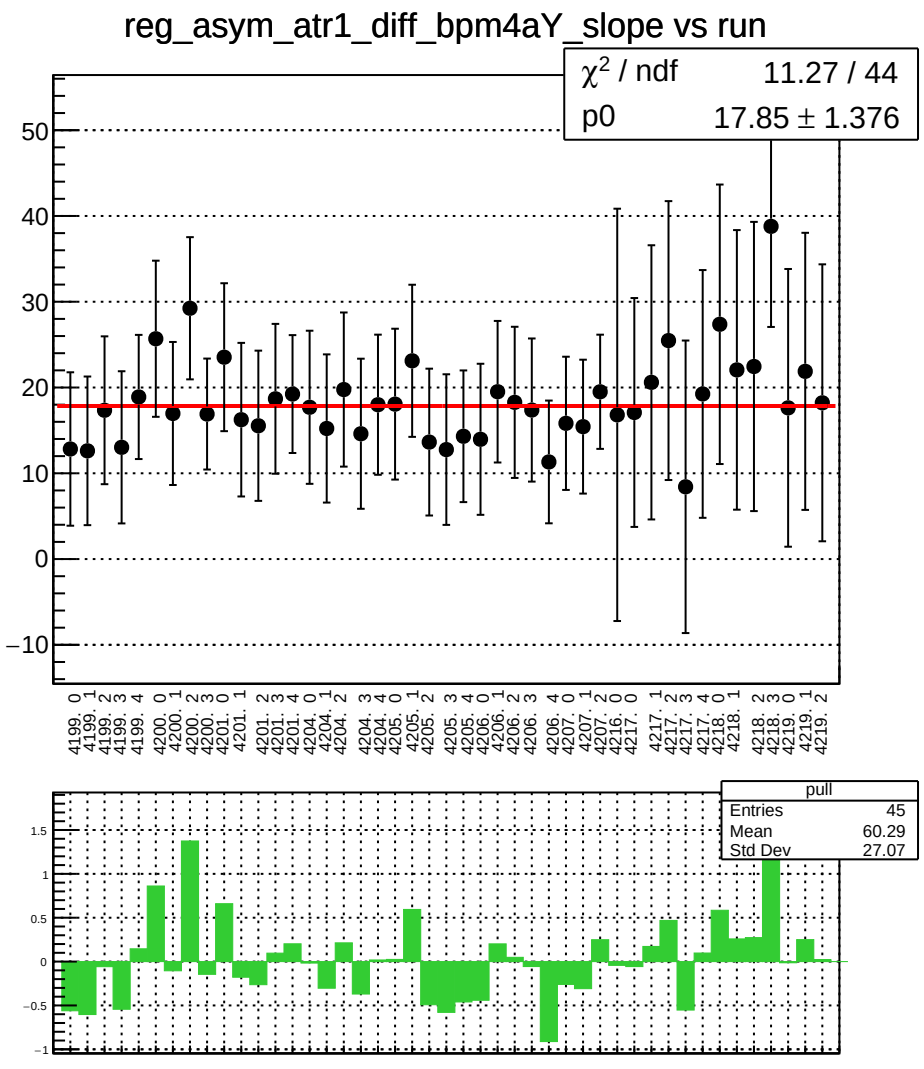

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 54.89 / 44
p0 161.8 ± 0.3739
175
170
165
160
155
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 198.6
Std Dev 175.5
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03694
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

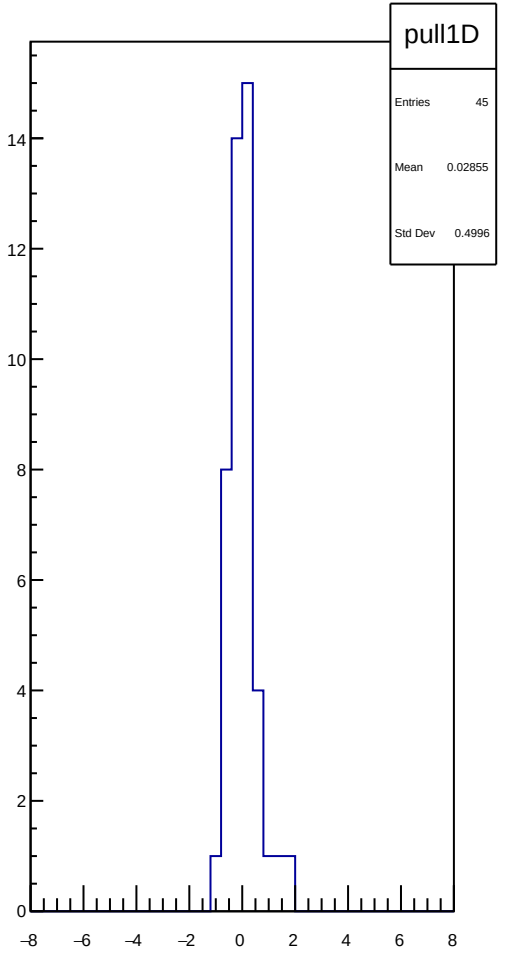

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 19.81 / 44
p0 −41.61 ± 2.863
0
−20
−40
−60
−80
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 1510
Std Dev 1486
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003223
Std Dev 0.6635
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

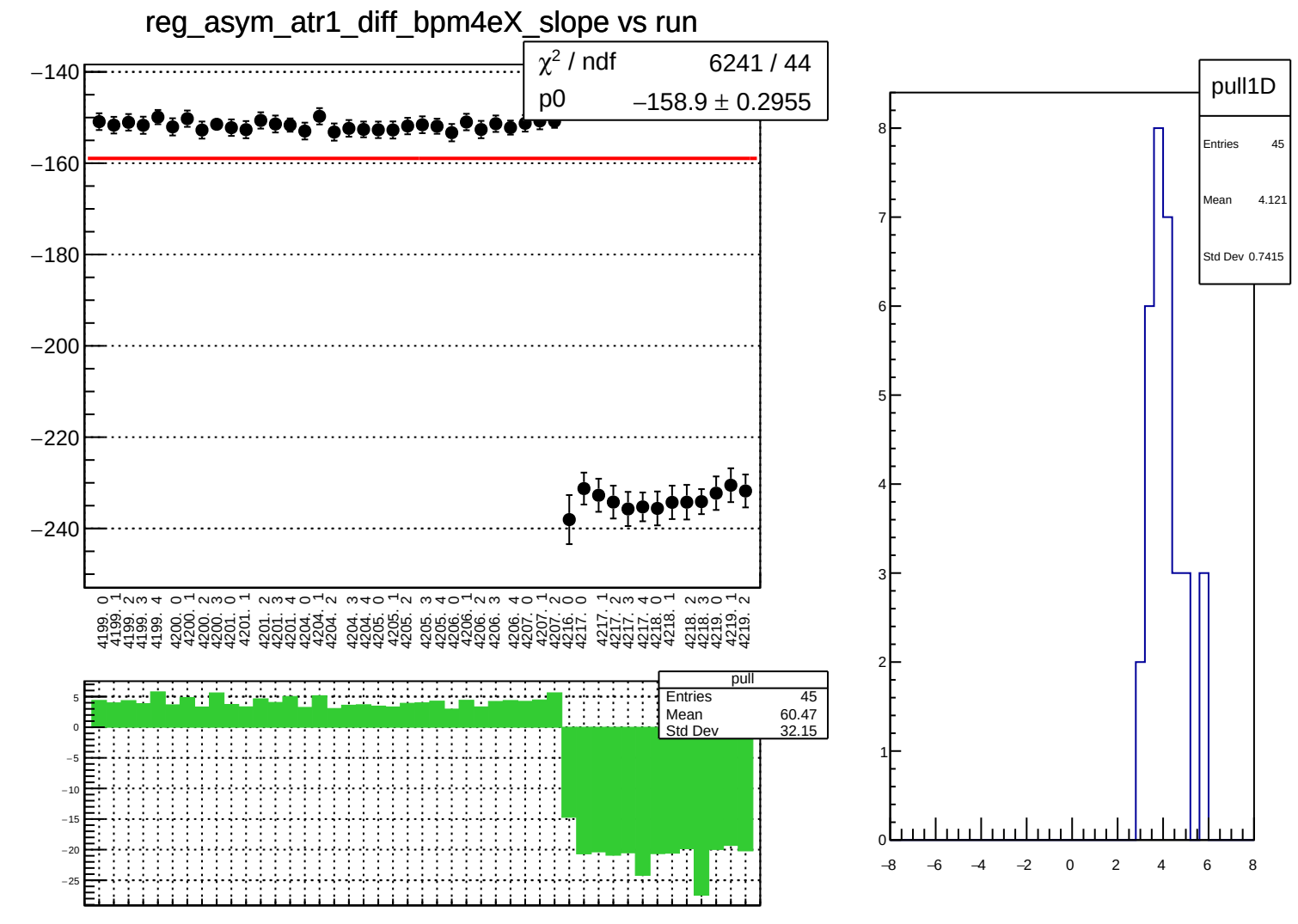

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 4.71 / 44
p0 3.214 ± 0.5033
pull
Entries 45
Mean −8.496
Std Dev 32.45

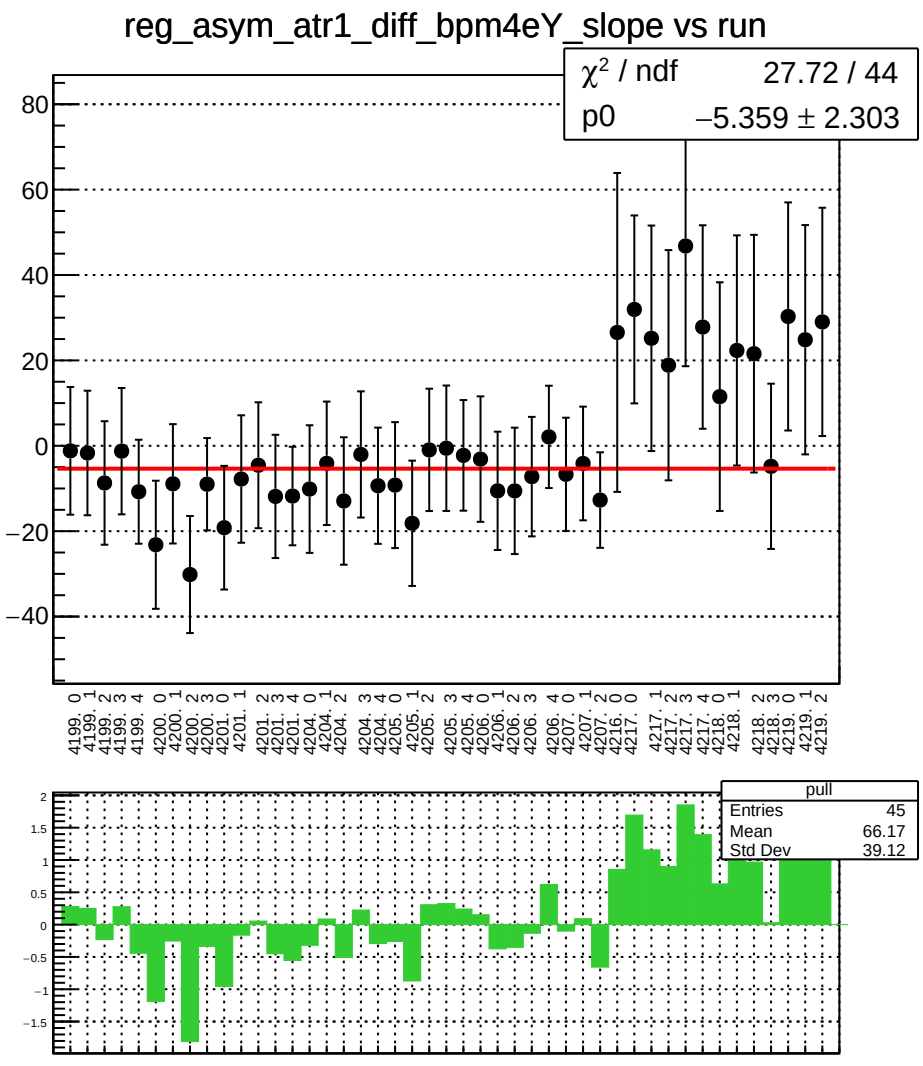

pull1D
Entries 45
Mean −0.01755
Std Dev 0.323

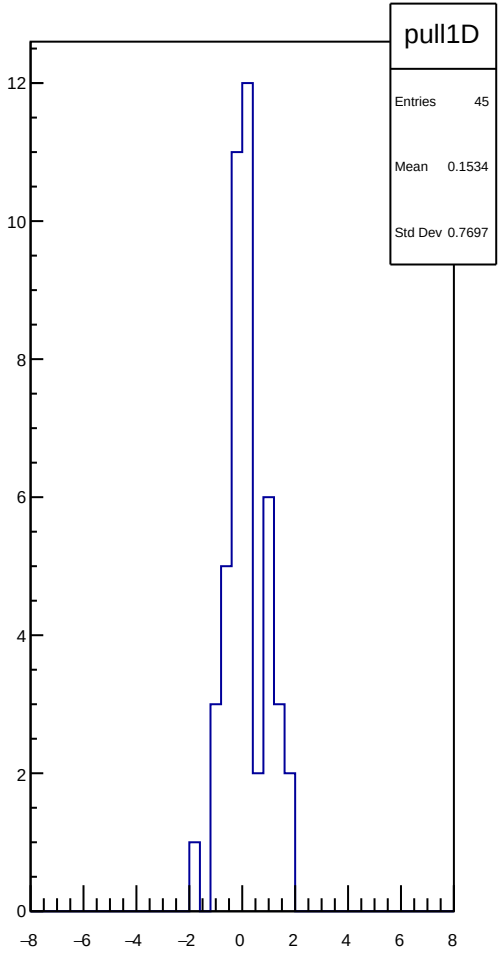

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 336.4 / 44
p0 −6.999 ± 1.653
pull
Entries 45
Mean 62.52
Std Dev 33.29
pull1D
Entries 45
Mean −0.6203
Std Dev 2.663

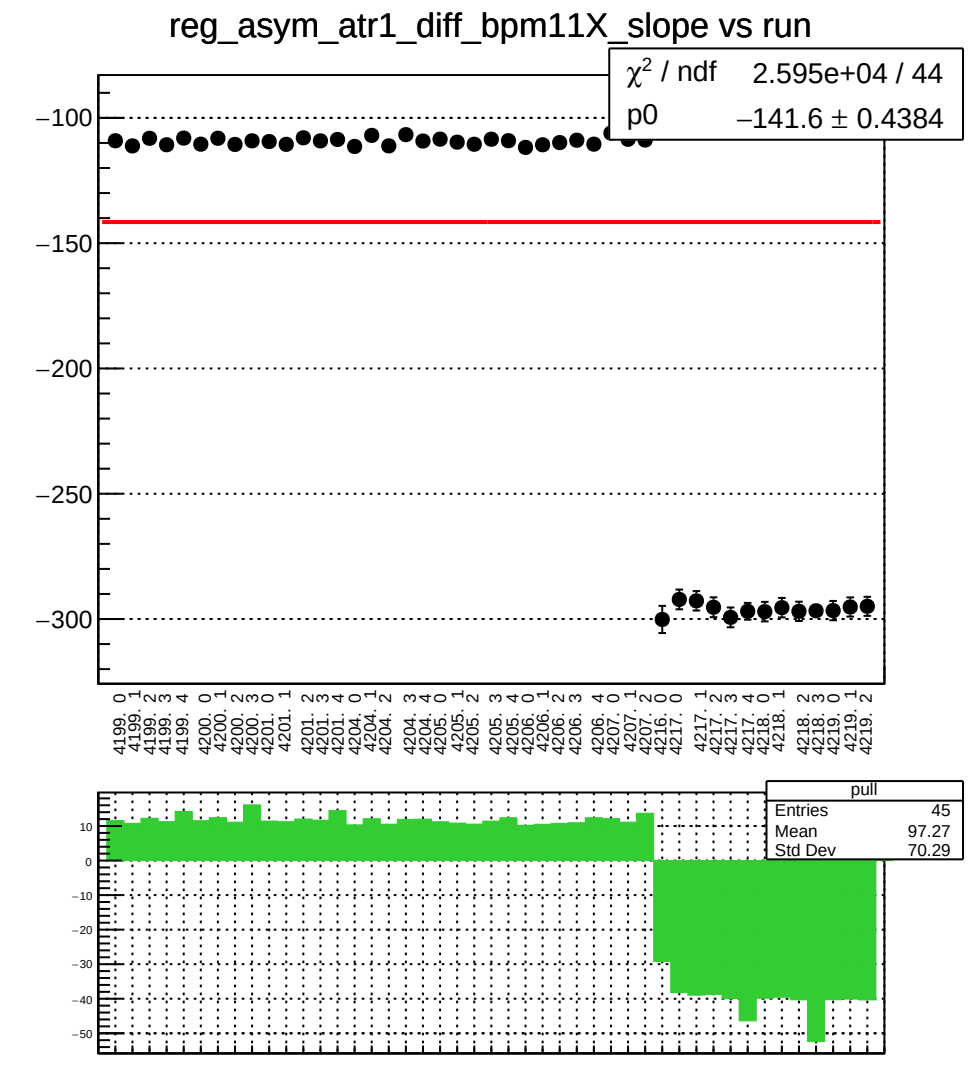

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 11.27 / 44
p0 17.85 ± 1.376
pull
Entries 45
Mean 60.29
Std Dev 27.07

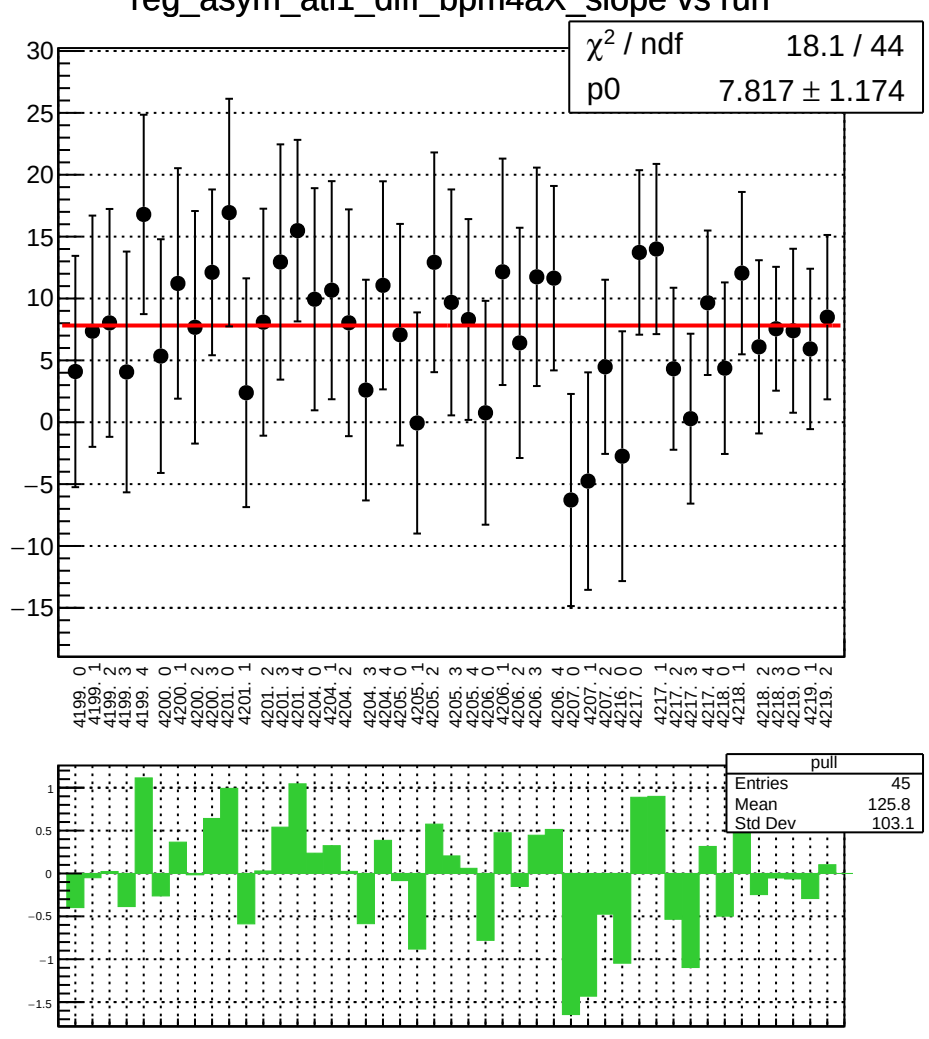

pull1D
Entries 45
Mean 0.02855
Std Dev 0.4996

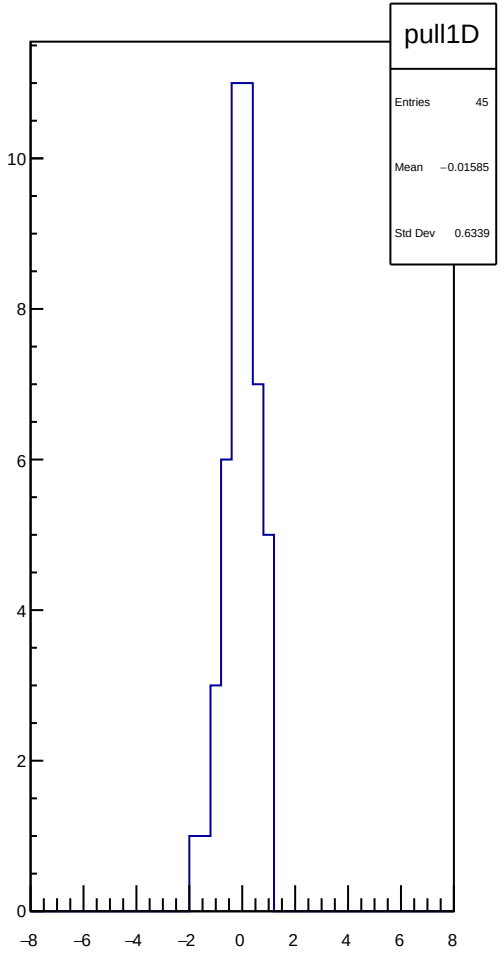

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 6241 / 44
p0 −158.9 ± 0.2955
−140
−160
−180
−200
−220
−240
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 60.47
Std Dev 32.15
5
0
−5
−10
−15
−20
−25
pull1D
Entries 45
Mean 4.121
Std Dev 0.7415
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

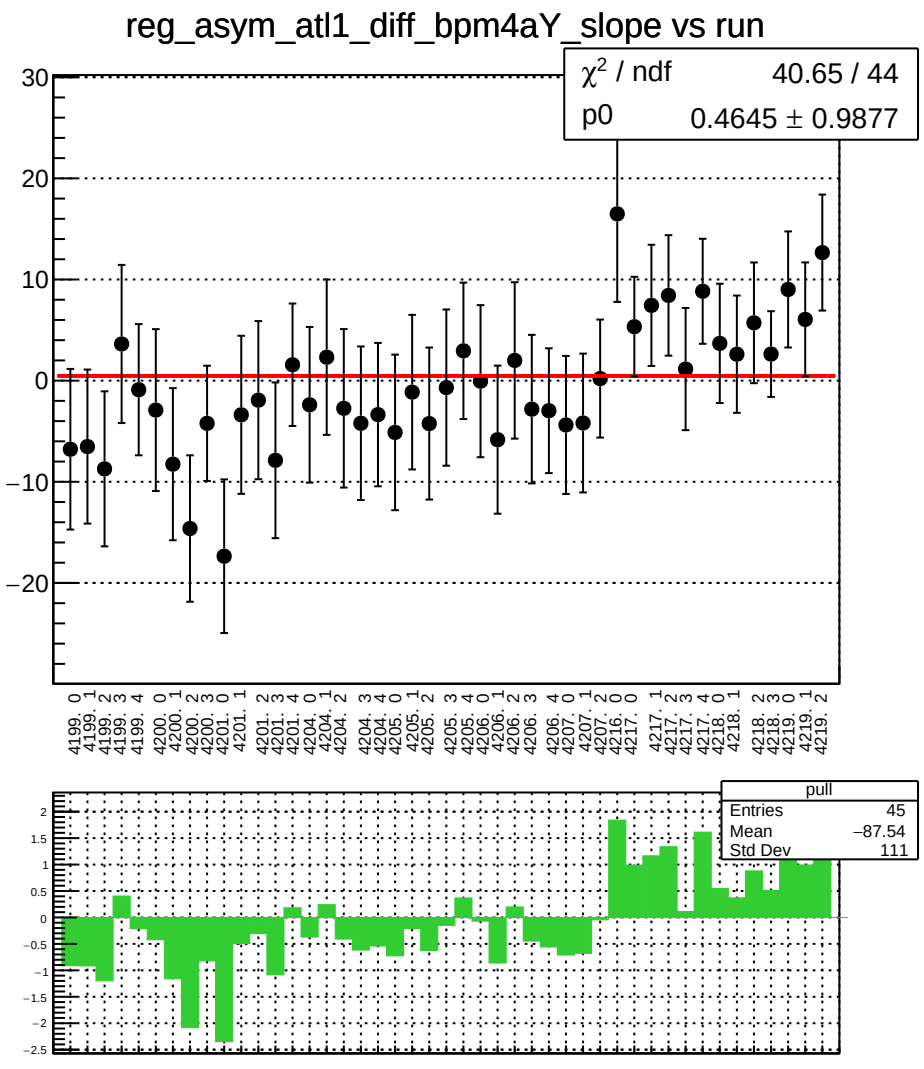

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 27.72 / 44
p0 −5.359 ± 2.303
pull
Entries 45
Mean 66.17
Std Dev 39.12

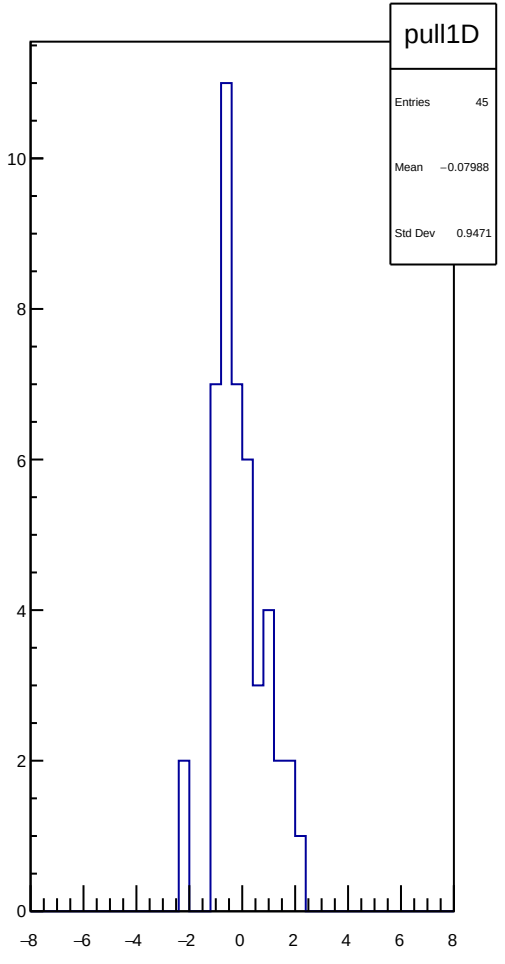

pull1D
Entries 45
Mean 0.1534
Std Dev 0.7697

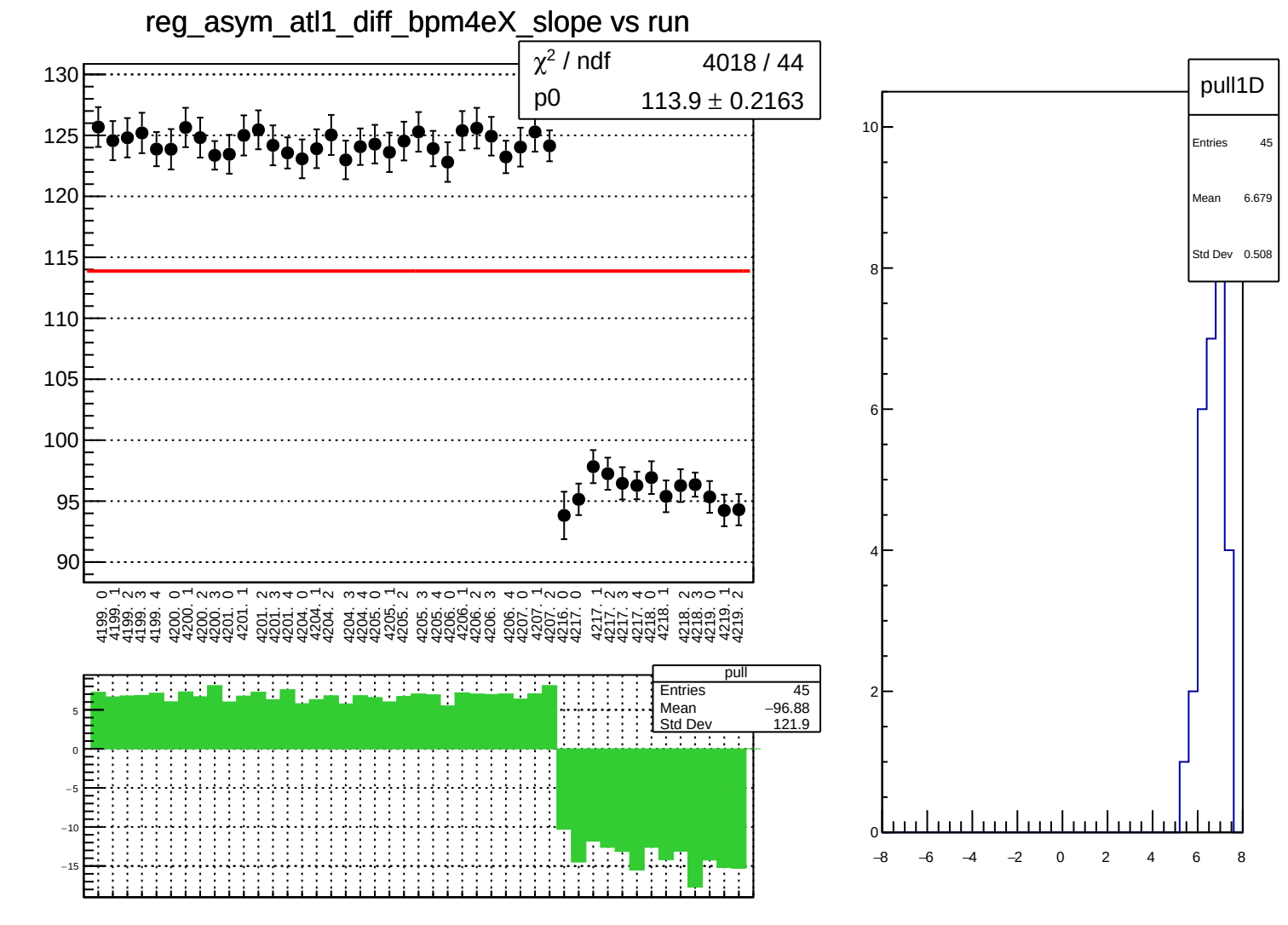

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 2.595e+04 / 44
p0 −141.6 ± 0.4384
−100
−150
−200
−250
−300
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 97.27
Std Dev 70.29
10
0
−10
−20
−30
−40
−50
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

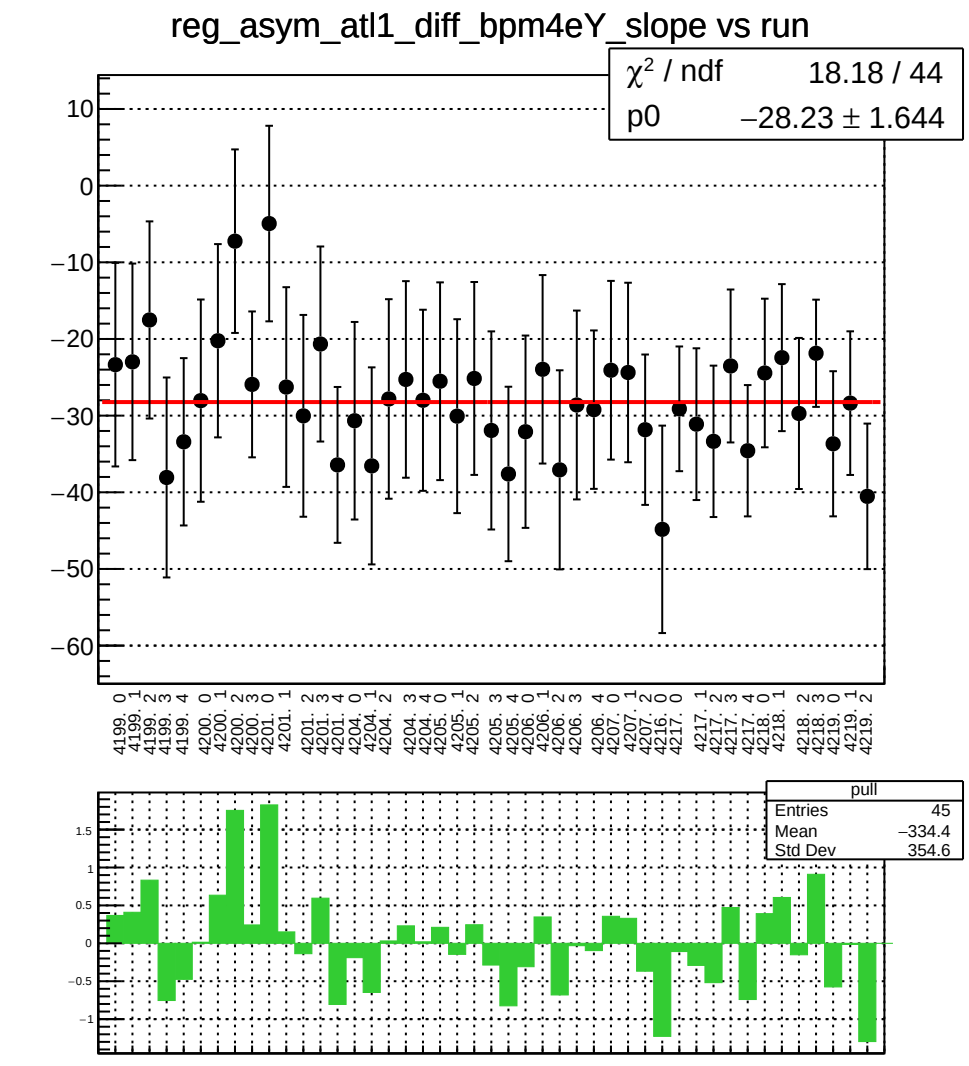

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 18.1 / 44
p0 7.817 ± 1.174
pull
Entries 45
Mean 125.8
Std Dev 103.1

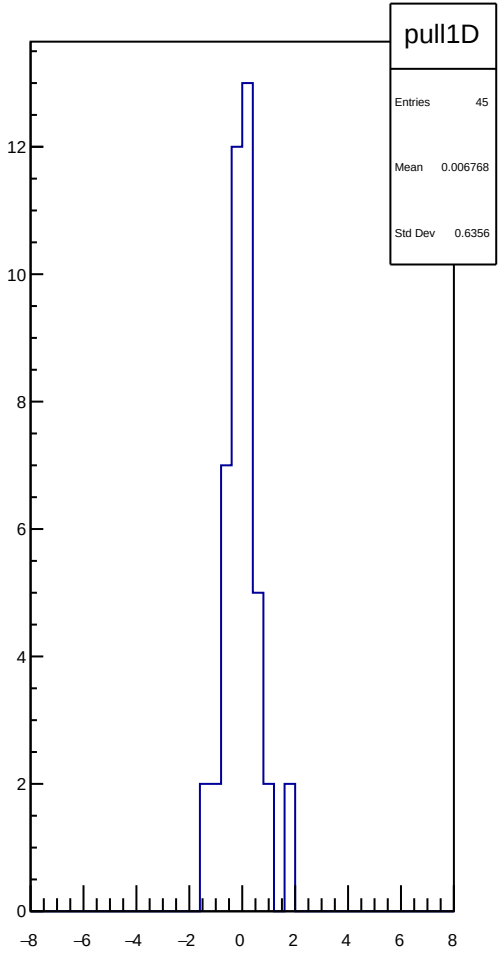

pull1D
Entries 45
Mean −0.01585
Std Dev 0.6339

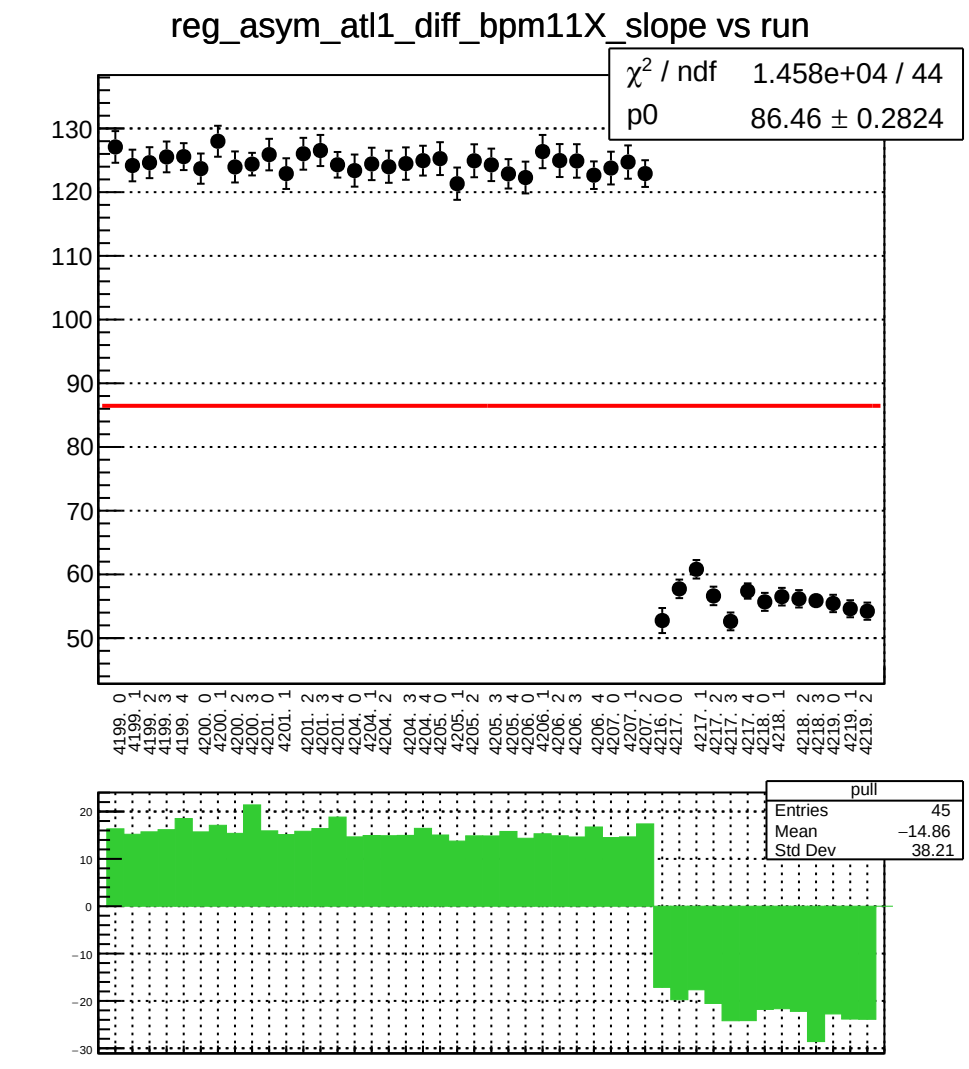

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 40.65 / 44
p0 0.4645 ± 0.9877
pull
Entries 45
Mean −87.54
Std Dev 111

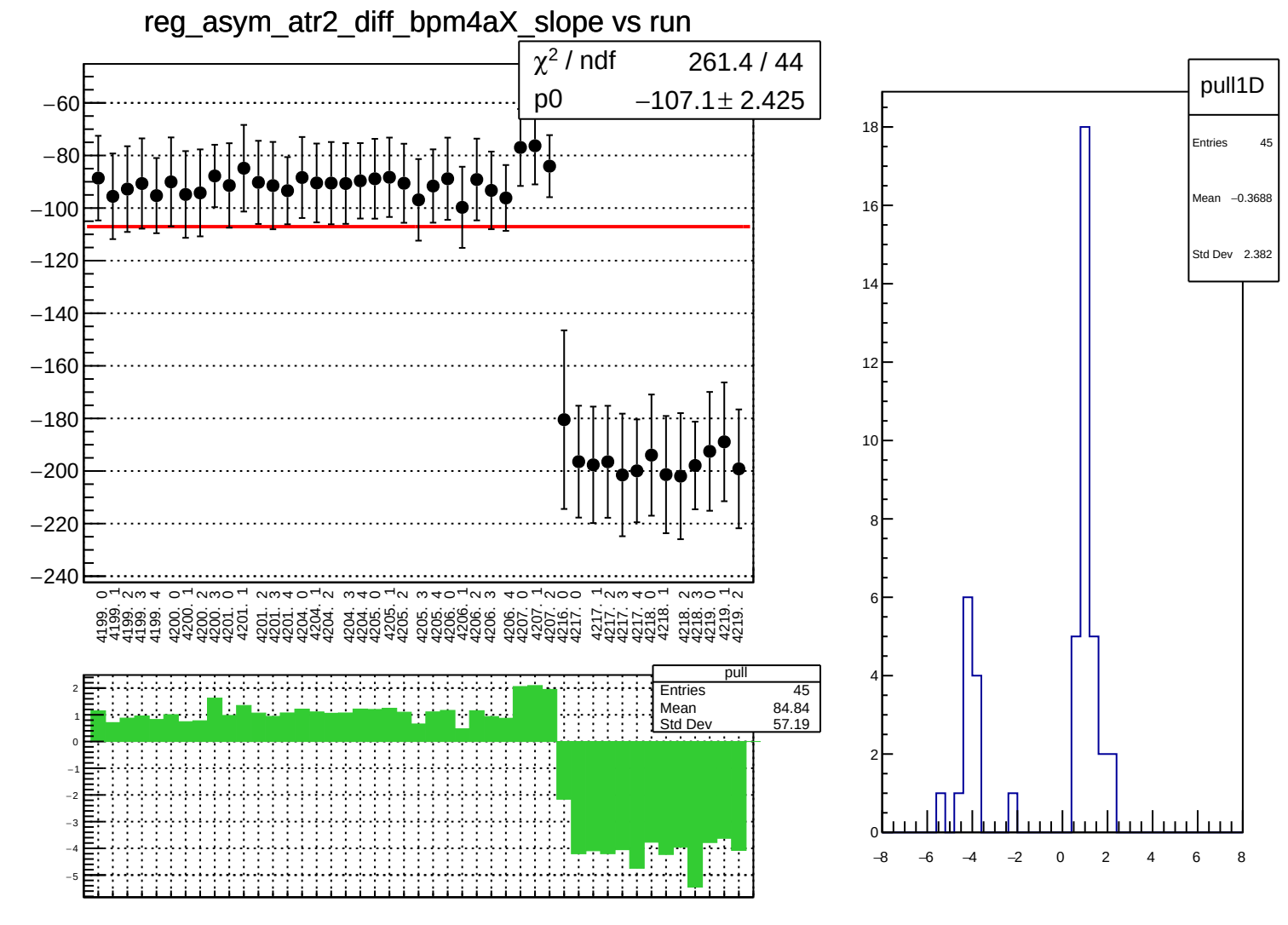

pull1D
Entries 45
Mean −0.07988
Std Dev 0.9471

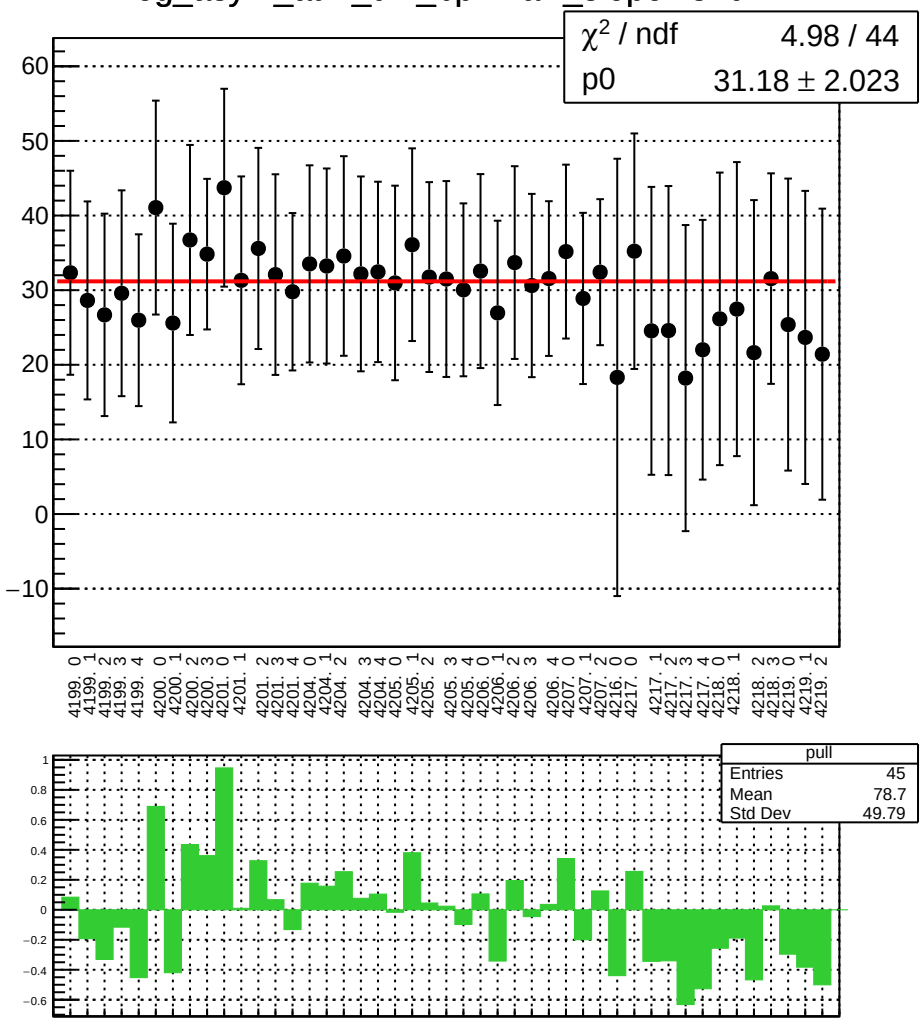

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 4018 / 44
p0 113.9 ± 0.2163
130
125
120
115
110
105
100
95
90
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −96.88
Std Dev 121.9
5
0
−5
−10
−15
pull1D
Entries 45
Mean 6.679
Std Dev 0.508
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

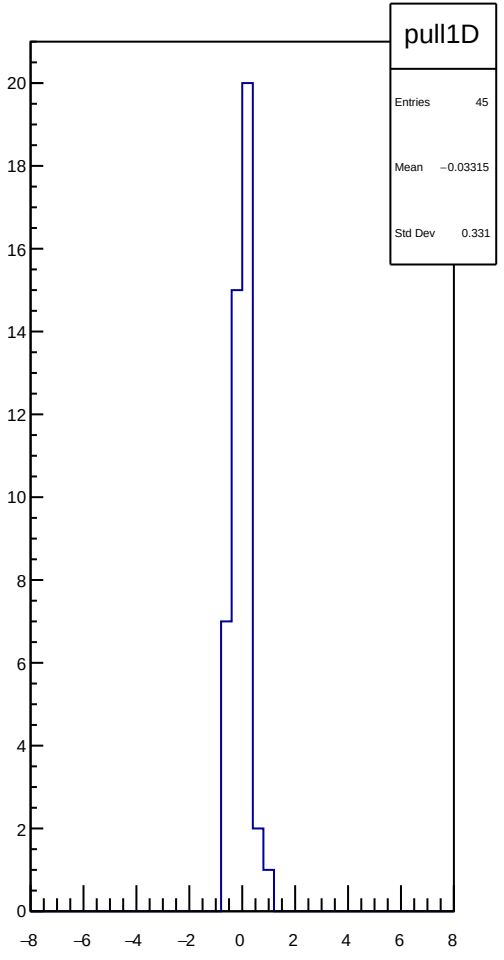

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 18.18 / 44
p0 −28.23 ± 1.644
pull
Entries 45
Mean −334.4
Std Dev 354.6

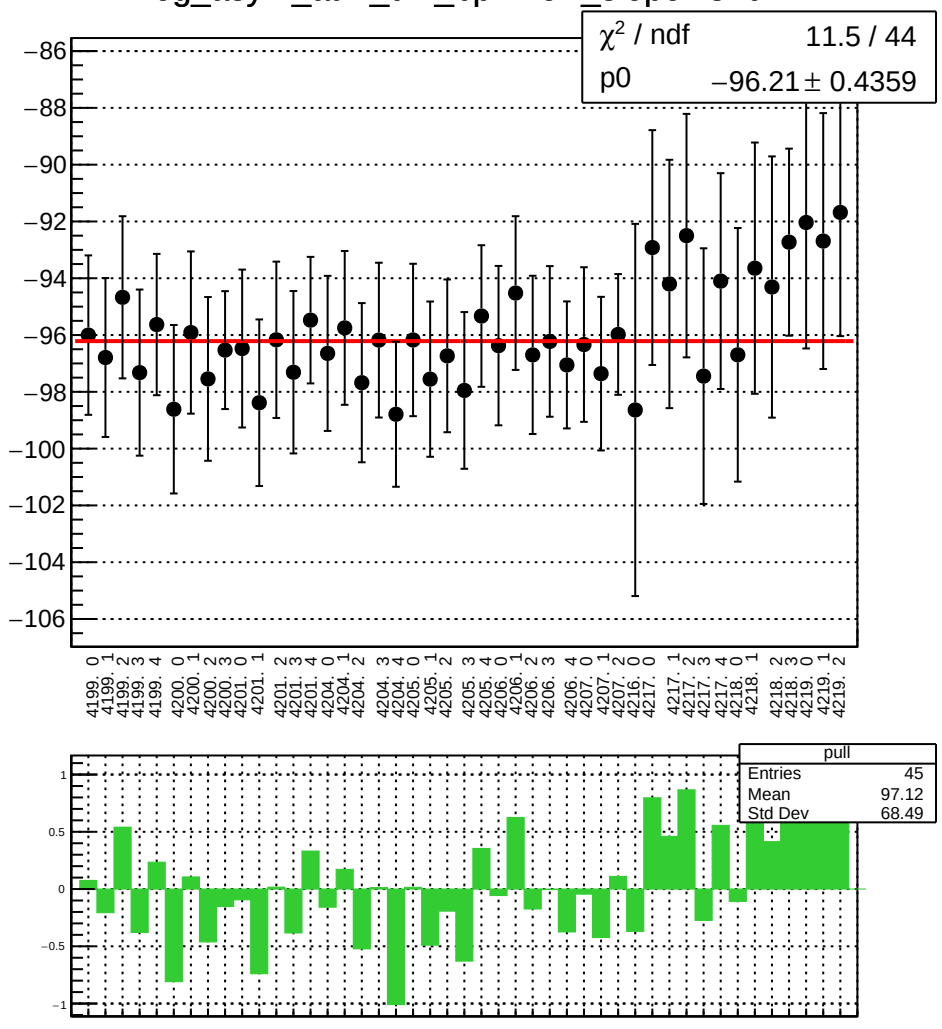

pull1D
Entries 45
Mean 0.006768
Std Dev 0.6356

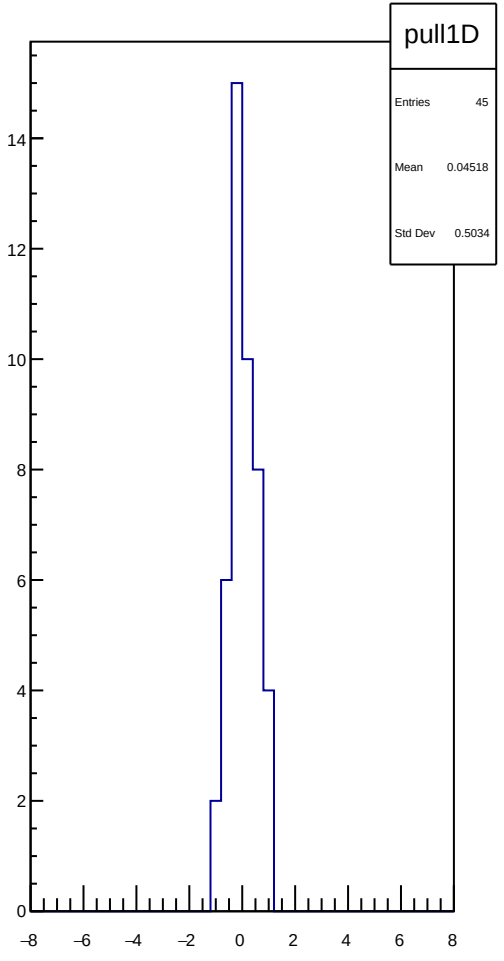

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 1.458e+04 / 44
p0 86.46 ± 0.2824
130
120
110
100
90
80
70
60
50
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −14.86
Std Dev 38.21
20
10
0
−10
−20
−30
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

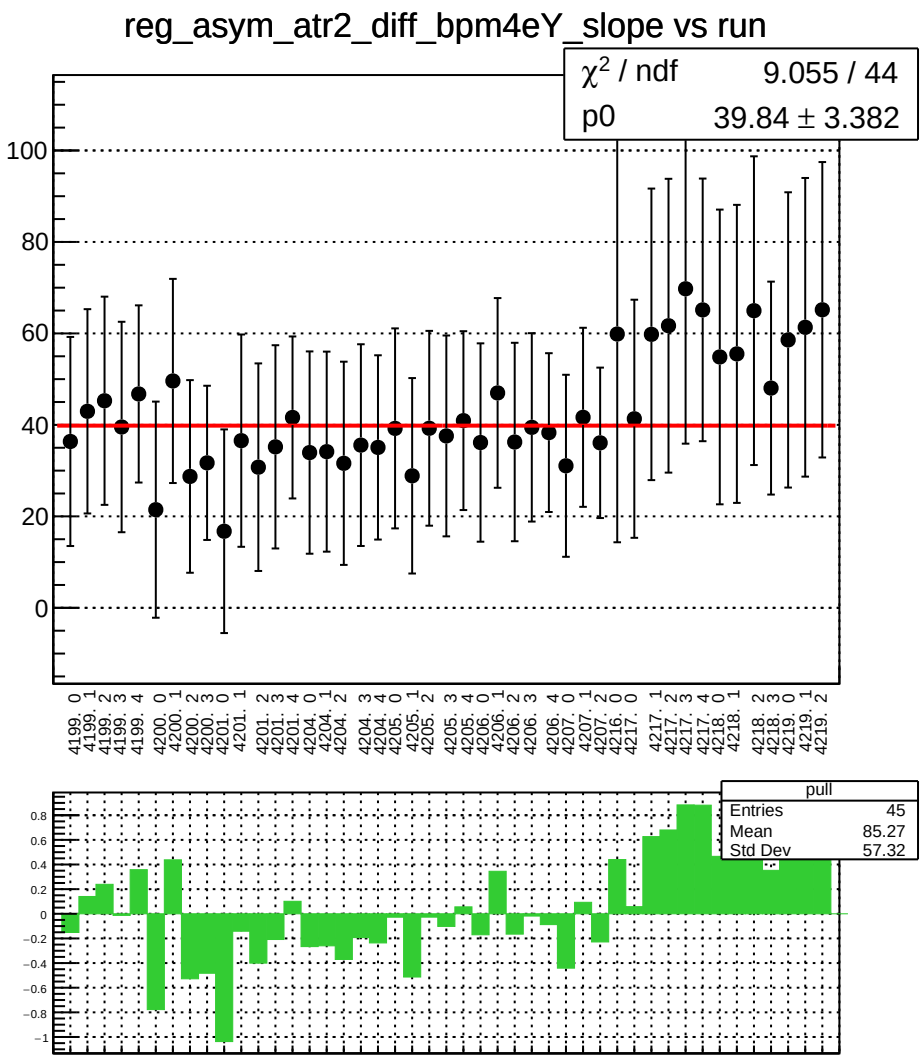

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 261.4 / 44
p0 −107.1± 2.425
pull
Entries 45
Mean 84.84
Std Dev 57.19
pull1D
Entries 45
Mean −0.3688
Std Dev 2.382

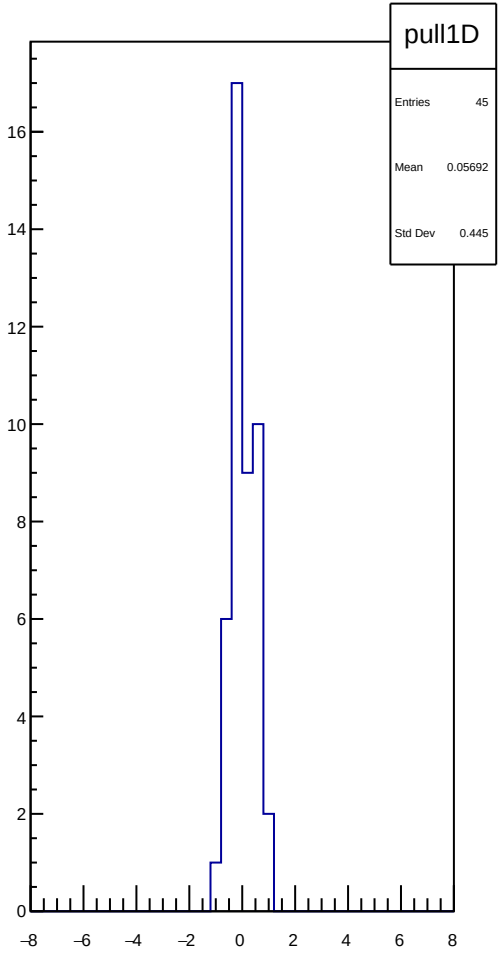

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.98 / 44
p0 31.18 ± 2.023
pull
Entries 45
Mean 78.7
Std Dev 49.79

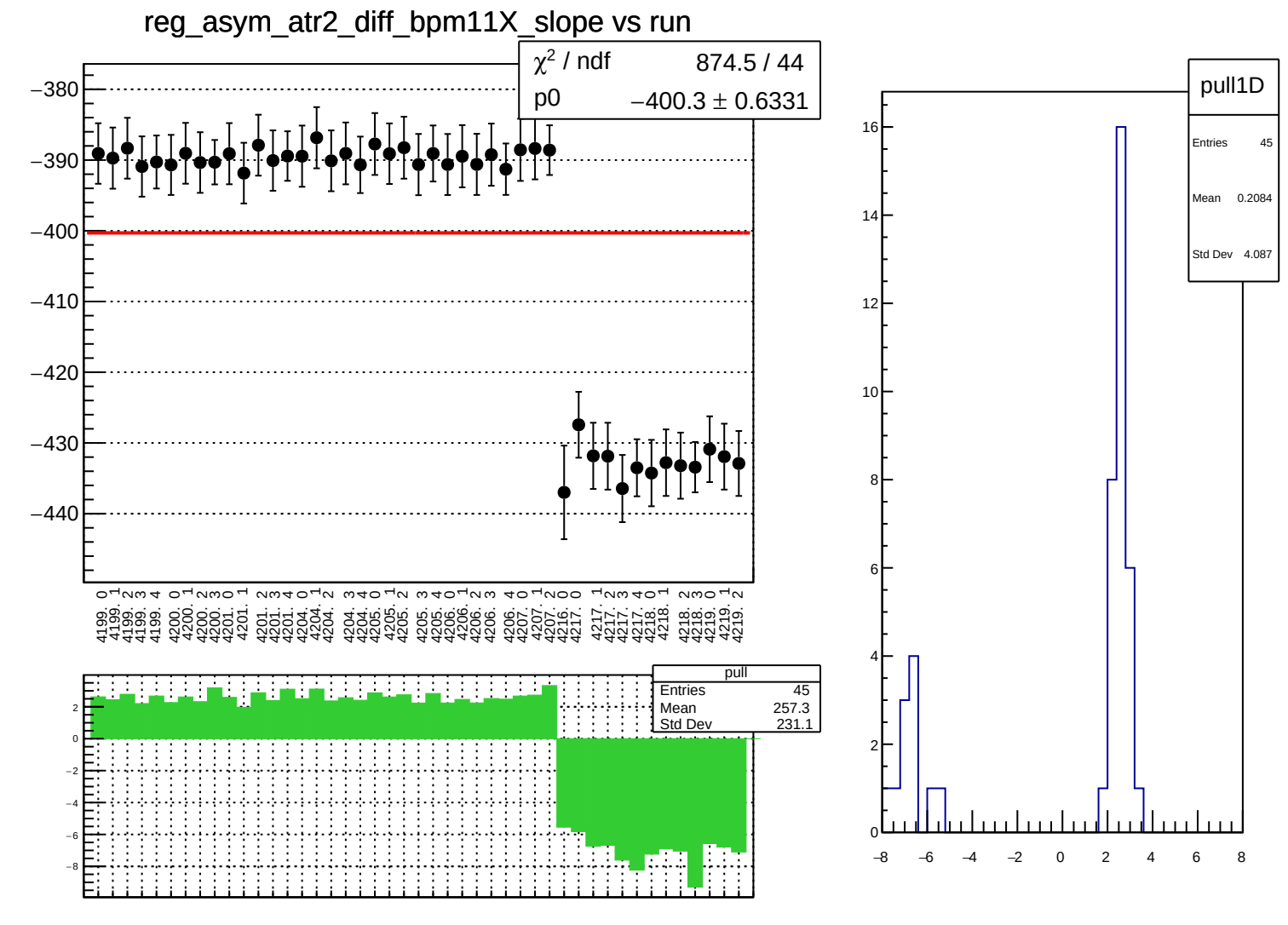

pull1D
Entries 45
Mean −0.03315
Std Dev 0.331

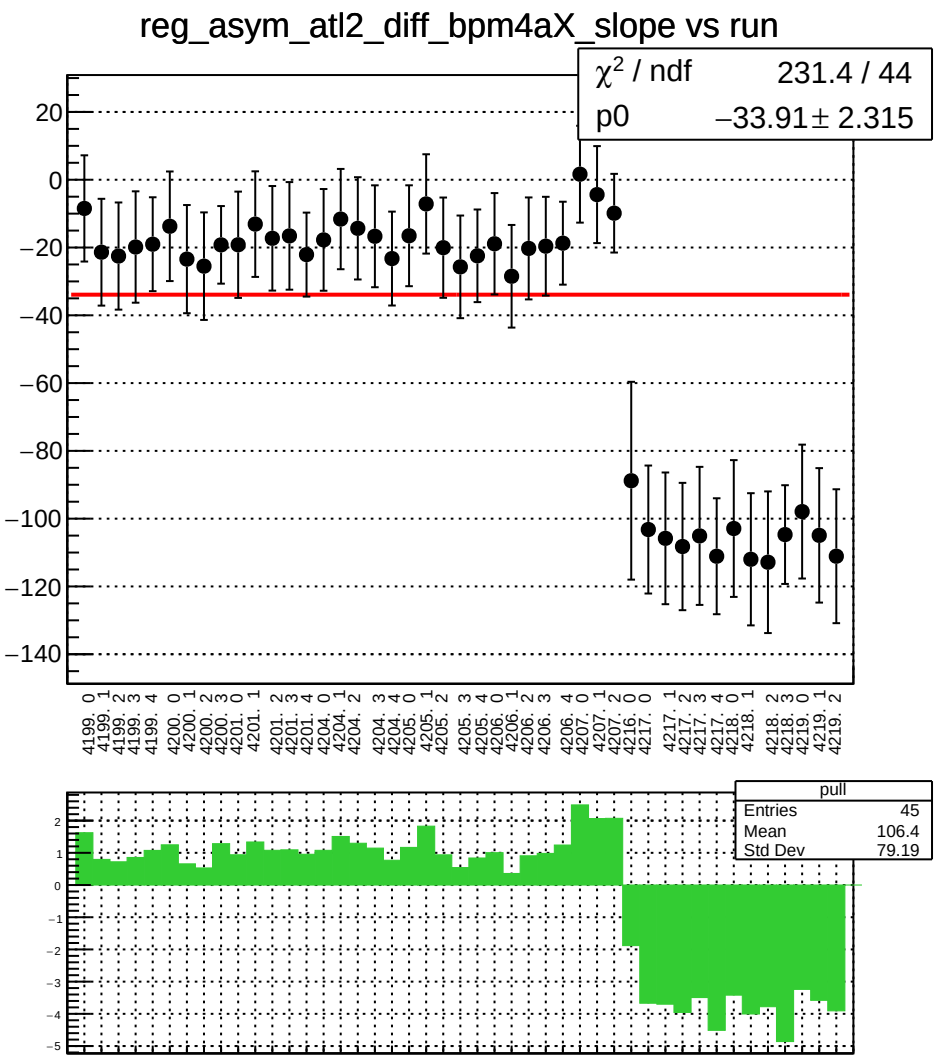

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 11.5 / 44
p0 −96.21 ± 0.4359
pull
Entries 45
Mean 97.12
Std Dev 68.49

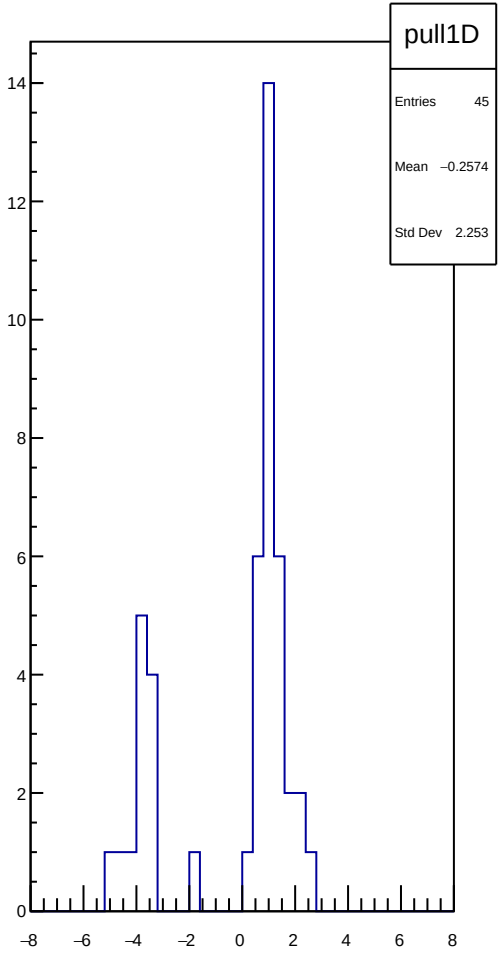

pull1D
Entries 45
Mean 0.04518
Std Dev 0.5034

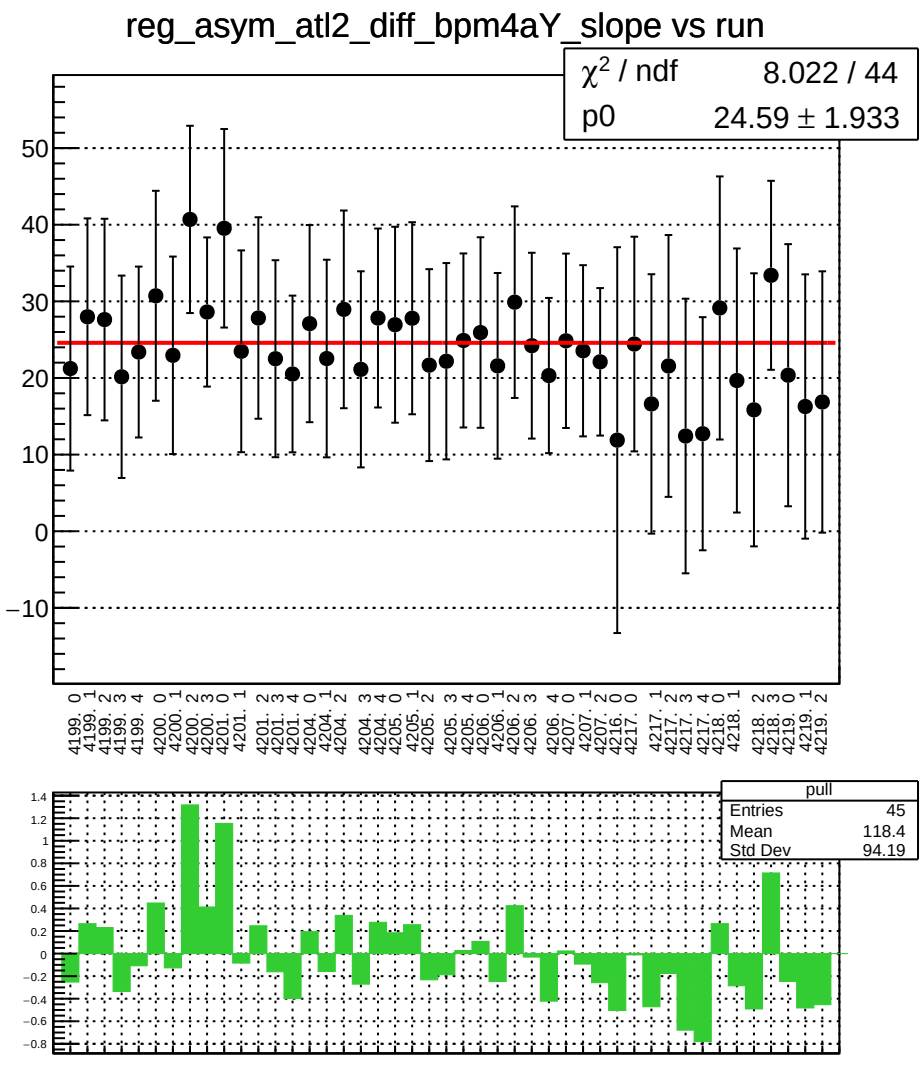

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 9.055 / 44
p0 39.84 ± 3.382
pull
Entries 45
Mean 85.27
Std Dev 57.32

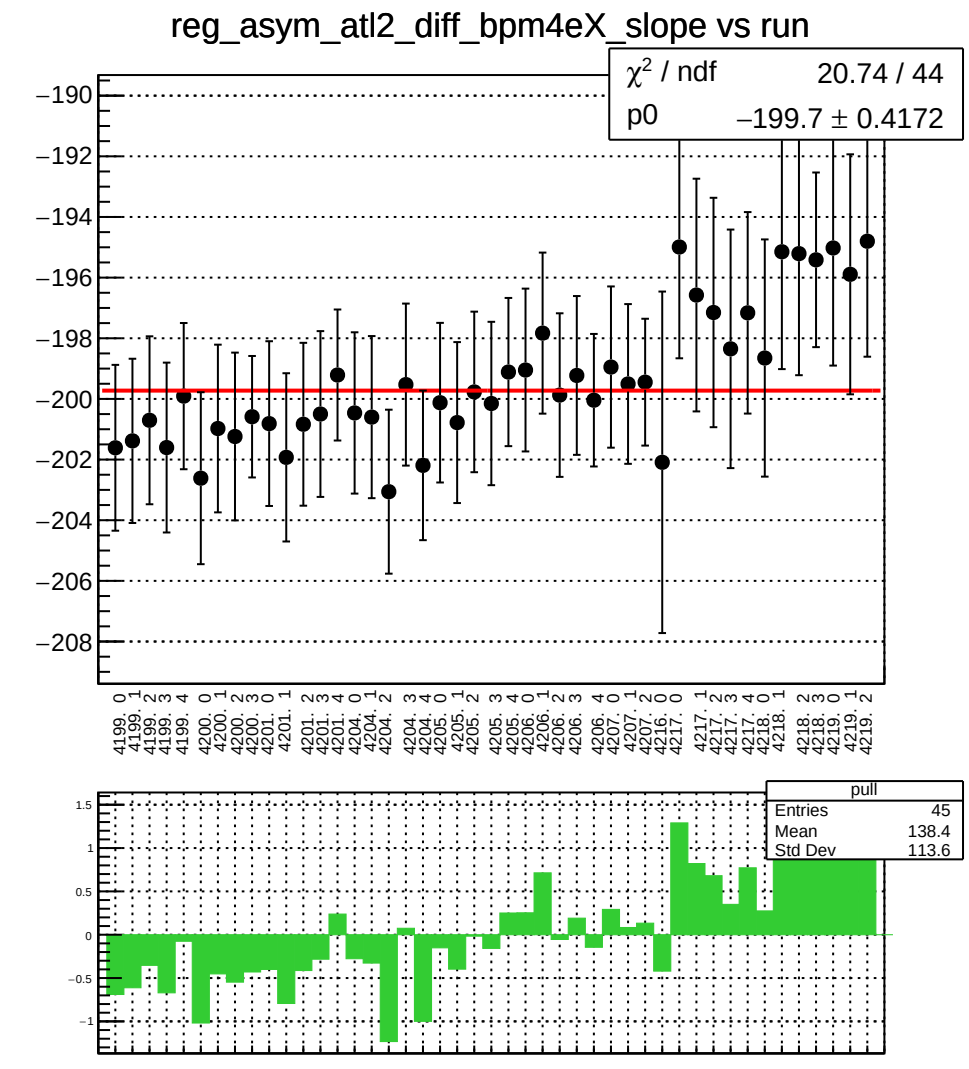

pull1D
Entries 45
Mean 0.05692
Std Dev 0.445

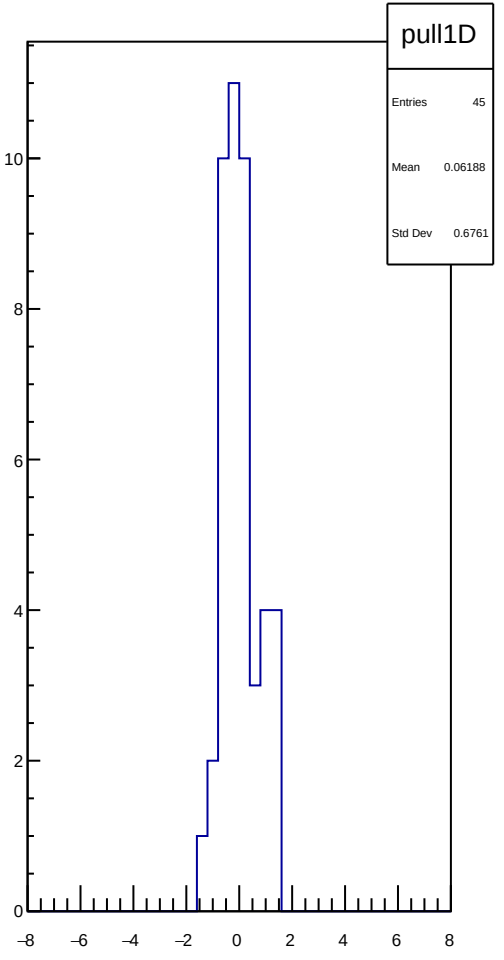

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 874.5 / 44
p0 −400.3 ± 0.6331
pull
Entries 45
Mean 257.3
Std Dev 231.1
pull1D
Entries 45
Mean 0.2084
Std Dev 4.087

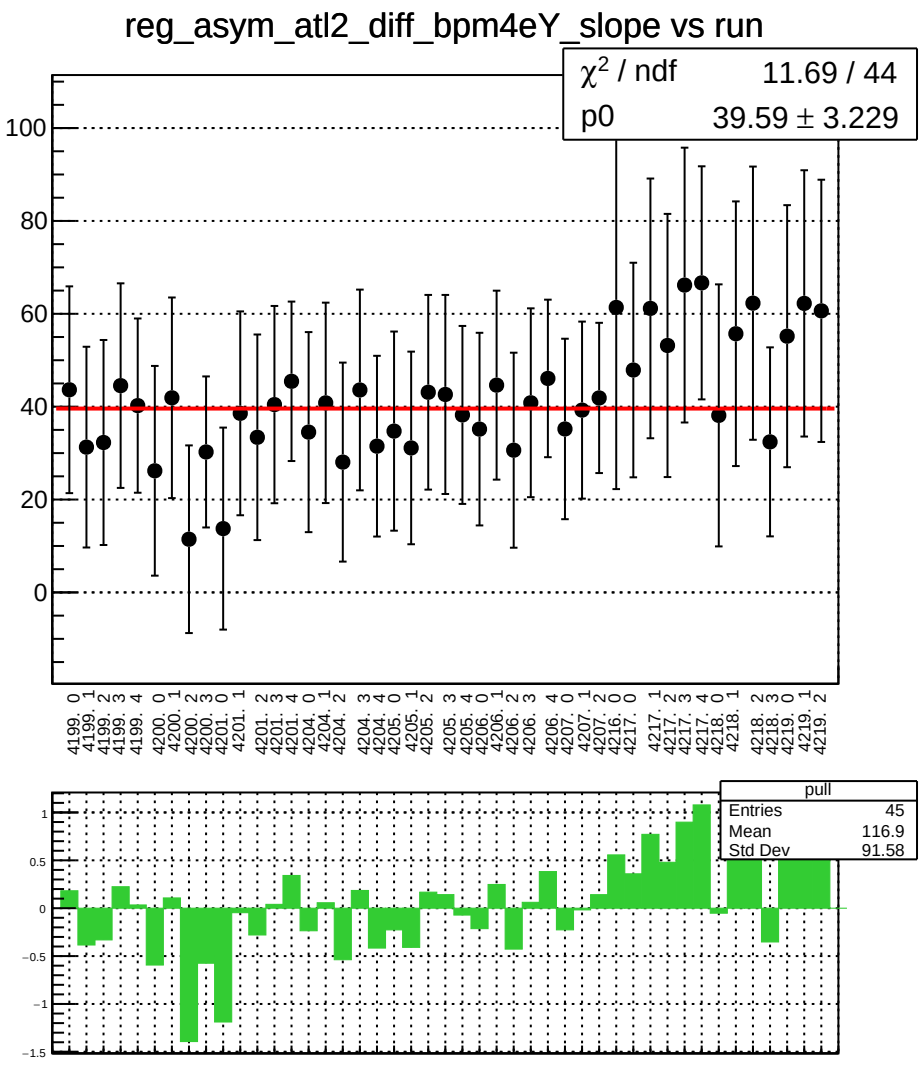

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 231.4 / 44
p0 −33.91 ± 2.315
pull
Entries 45
Mean 106.4
Std Dev 79.19

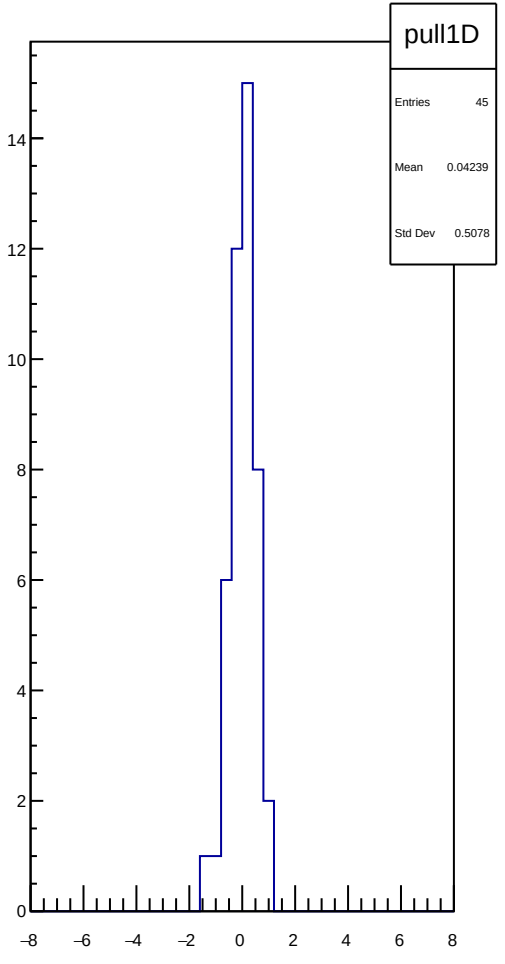

pull1D
Entries 45
Mean −0.2574
Std Dev 2.253

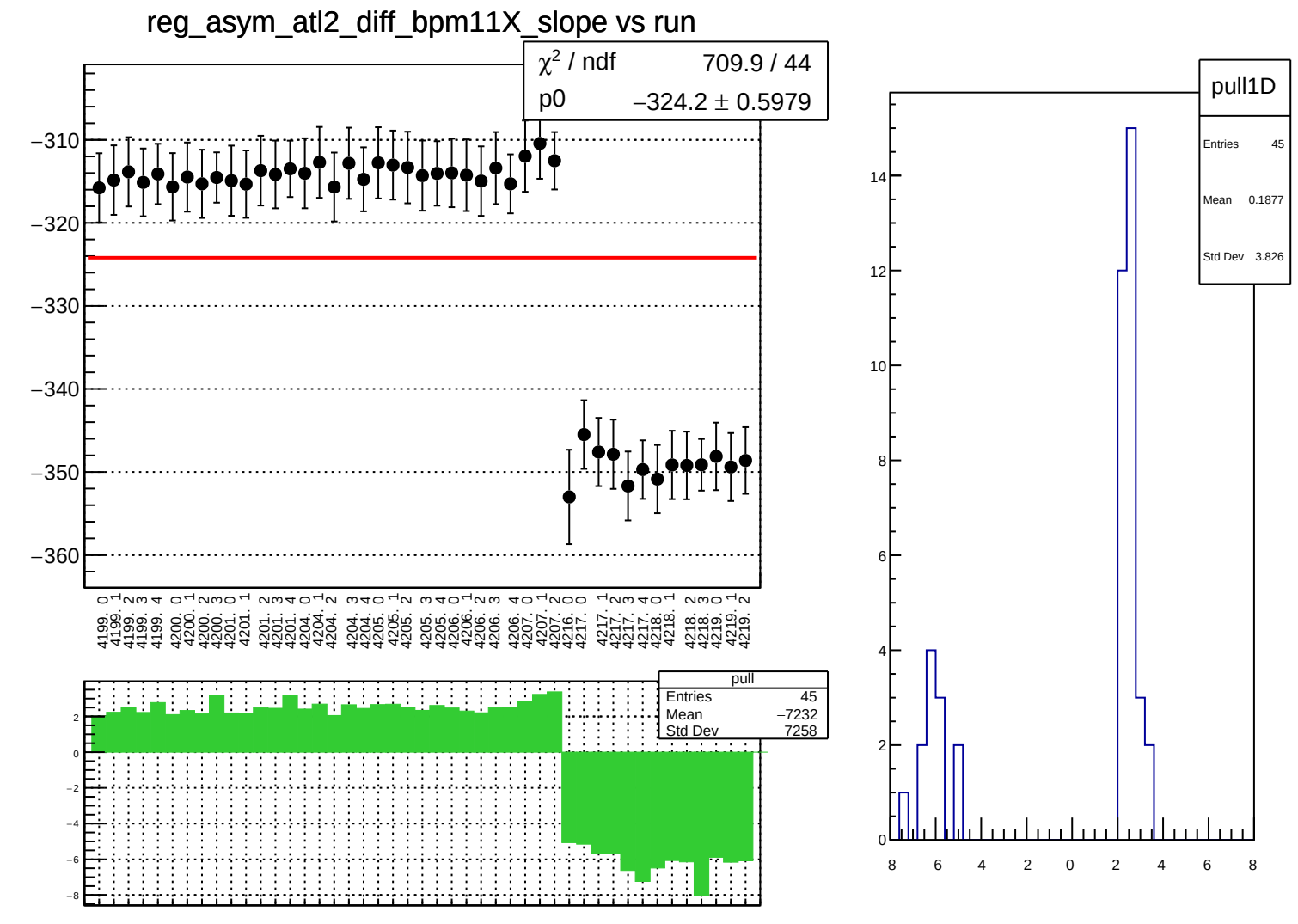

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.022 / 44
p0 24.59 ± 1.933
50
40
30
20
10
0
−10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 118.4
Std Dev 94.19
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.02354
Std Dev 0.4216
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

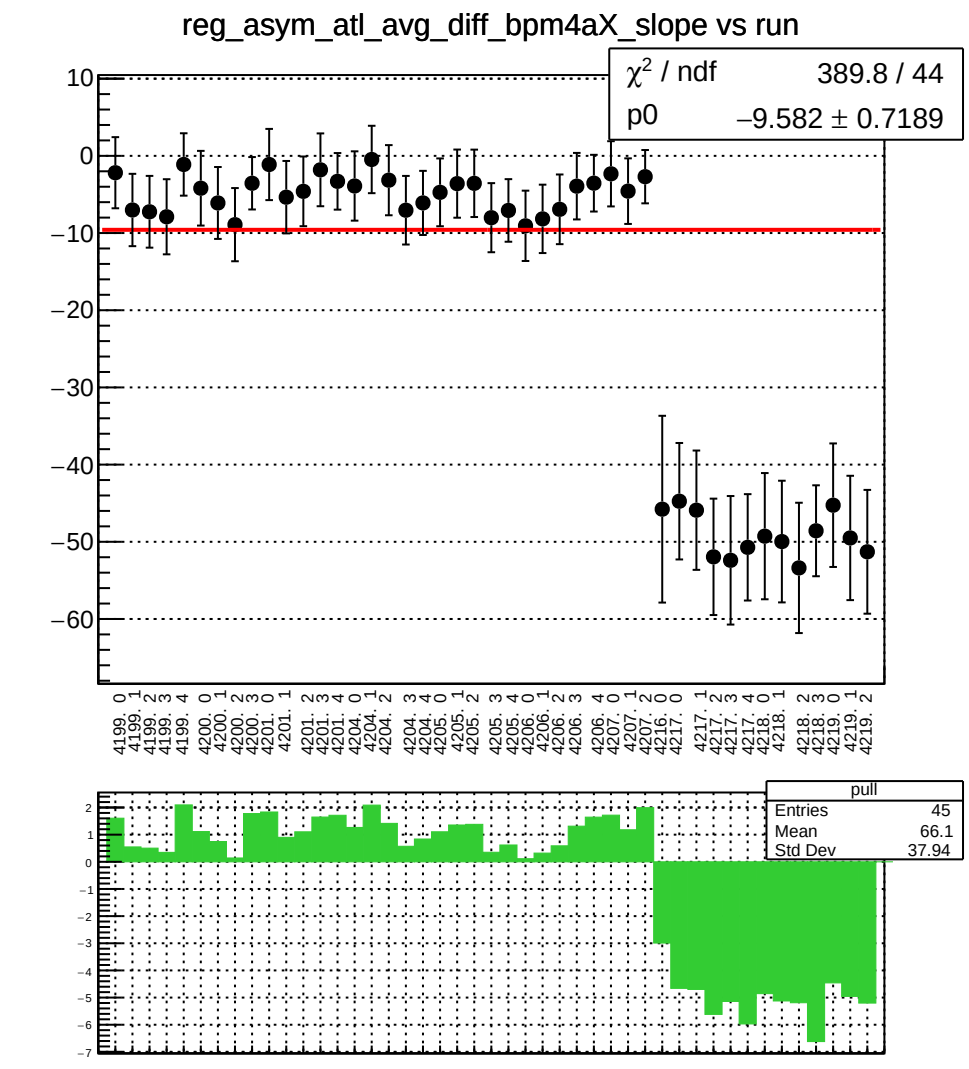

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 20.74 / 44
p0 −199.7 ± 0.4172
pull
Entries 45
Mean 138.4
Std Dev 113.6

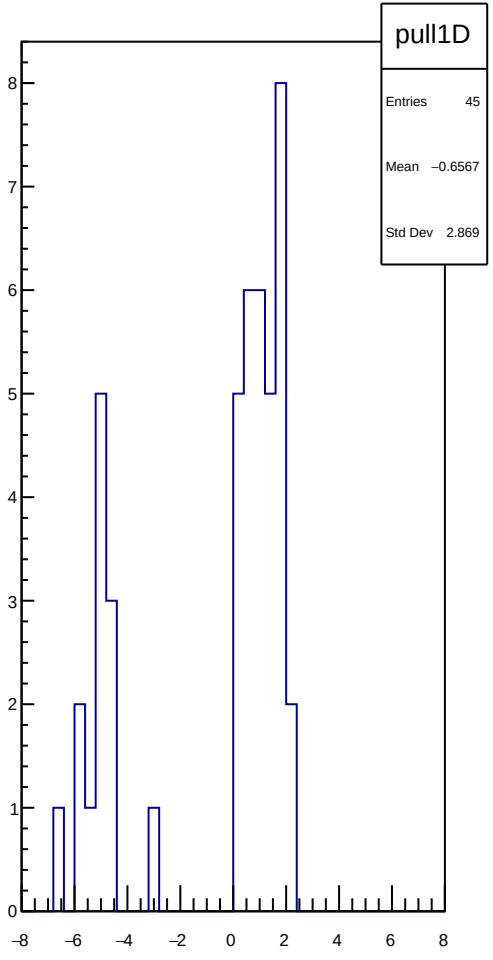

pull1D
Entries 45
Mean 0.06188
Std Dev 0.6761

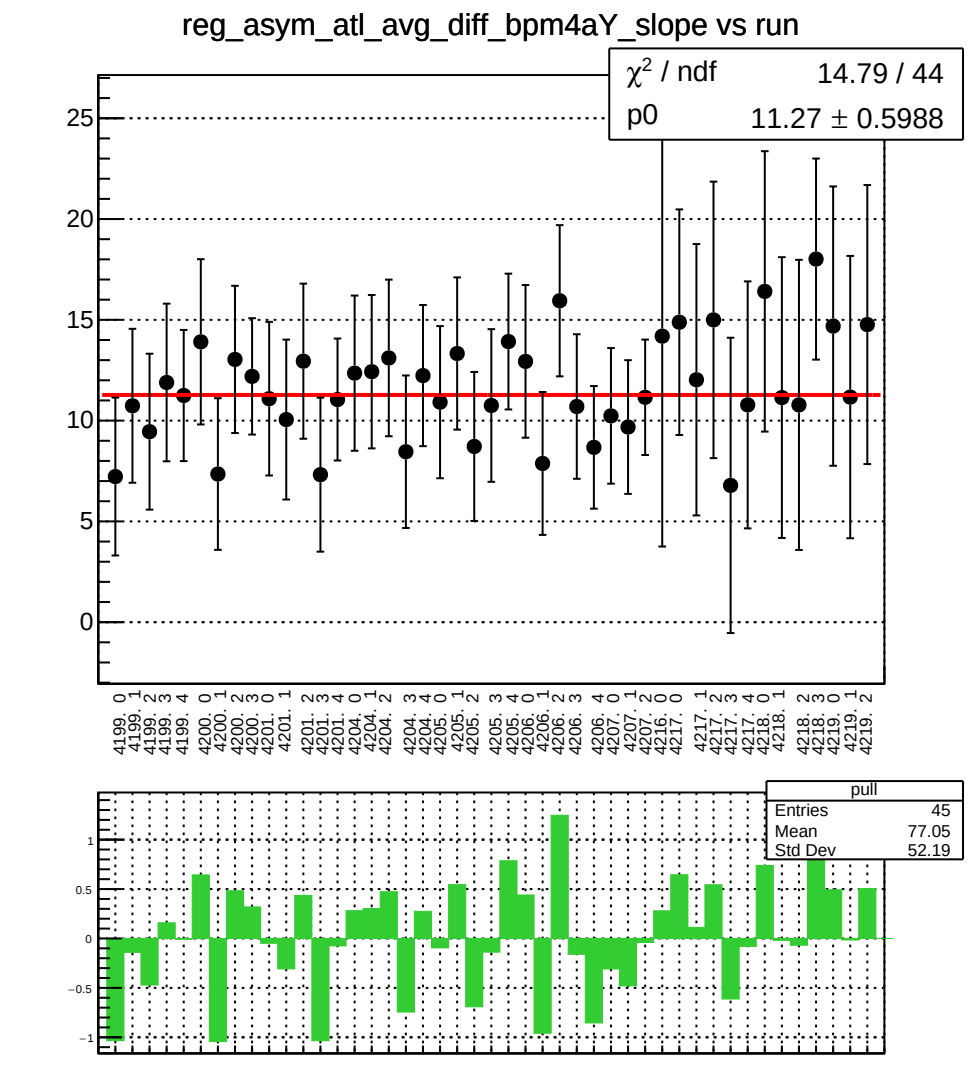

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 11.69 / 44
p0 39.59 ± 3.229
pull
Entries 45
Mean 116.9
Std Dev 91.58

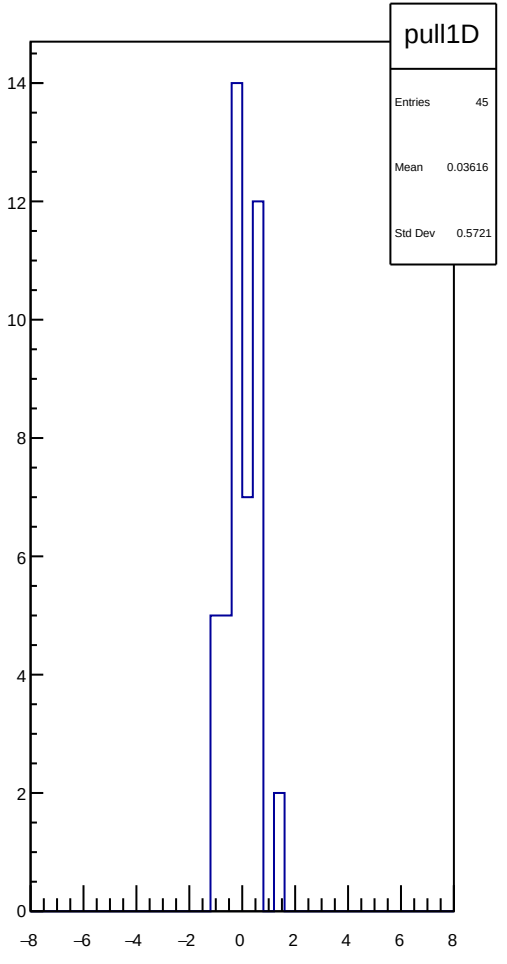

pull1D
Entries 45
Mean 0.04239
Std Dev 0.5078

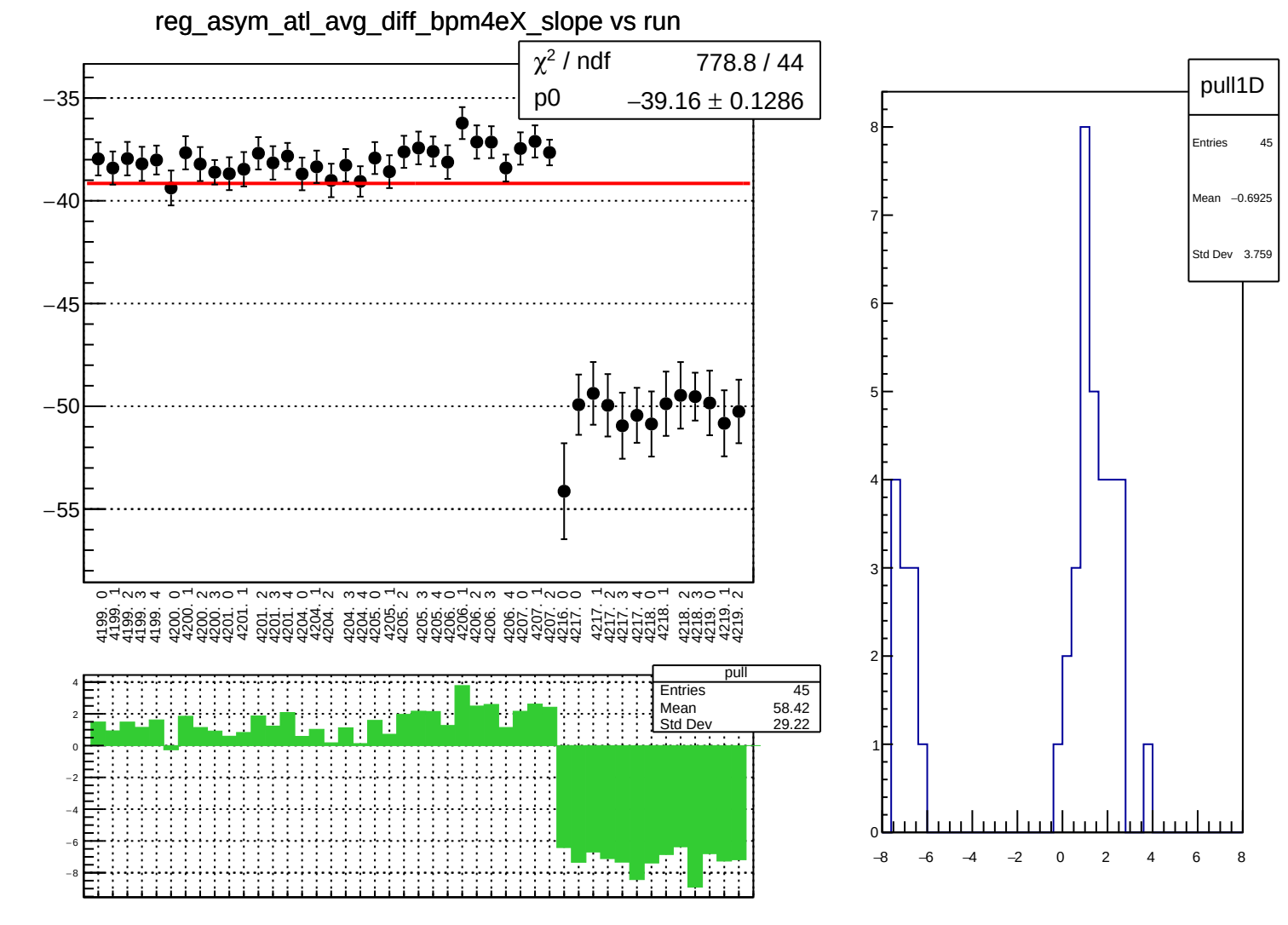

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 709.9 / 44
p0 −324.2 ± 0.5979
−310
−320
−330
−340
−350
−360
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −7232
Std Dev 7258
2
0
−2
−4
−6
−8
pull1D
Entries 45
Mean 0.1877
Std Dev 3.826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

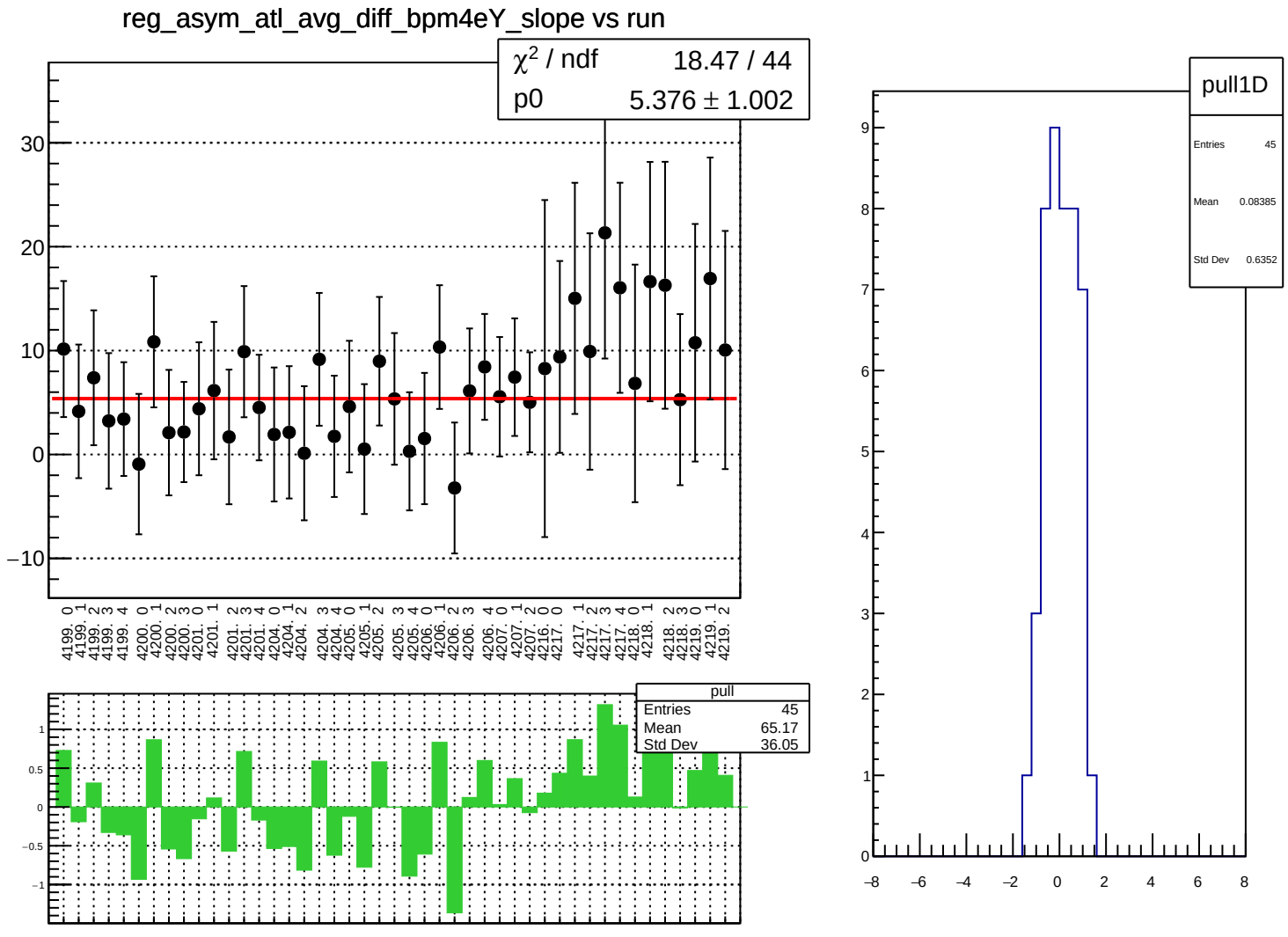

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 389.8 / 44
p0 −9.582 ± 0.7189
pull
Entries 45
Mean 66.1
Std Dev 37.94

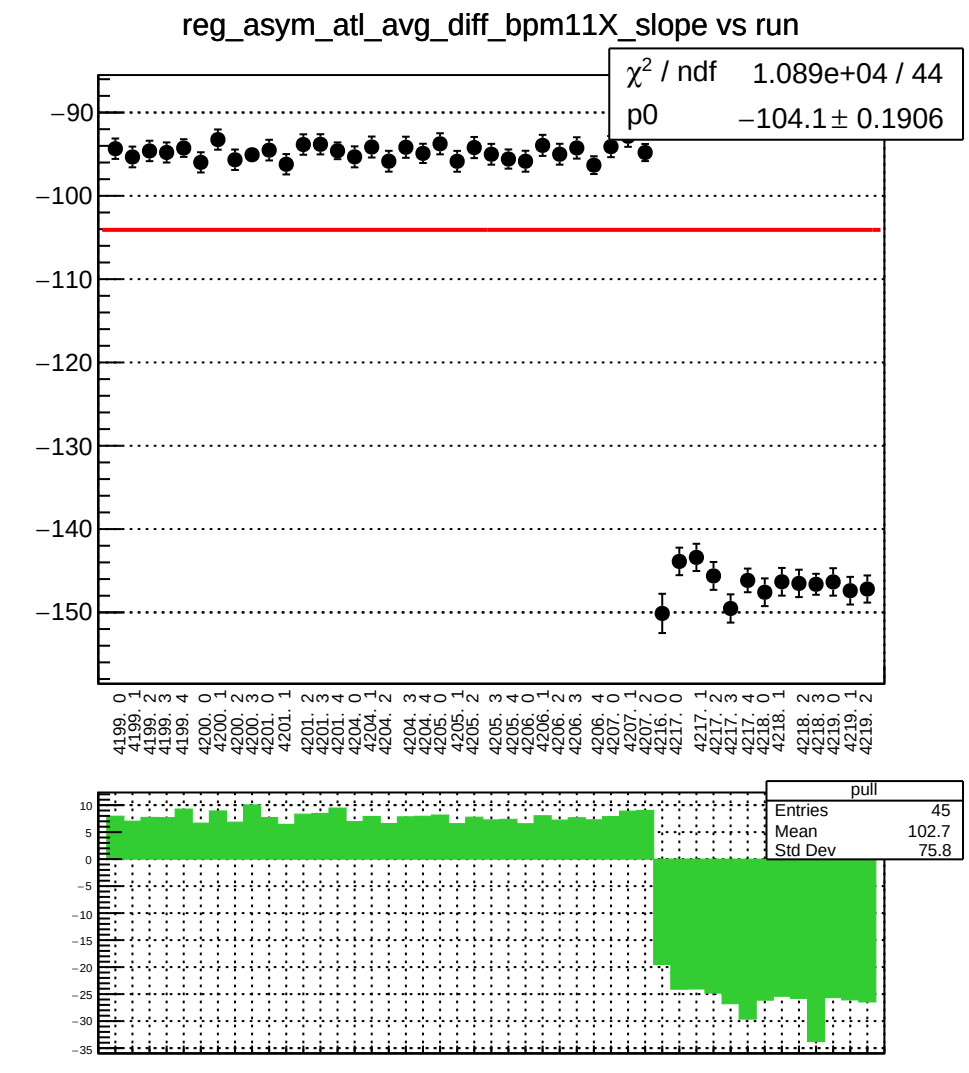

pull1D
Entries 45
Mean −0.6567
Std Dev 2.869

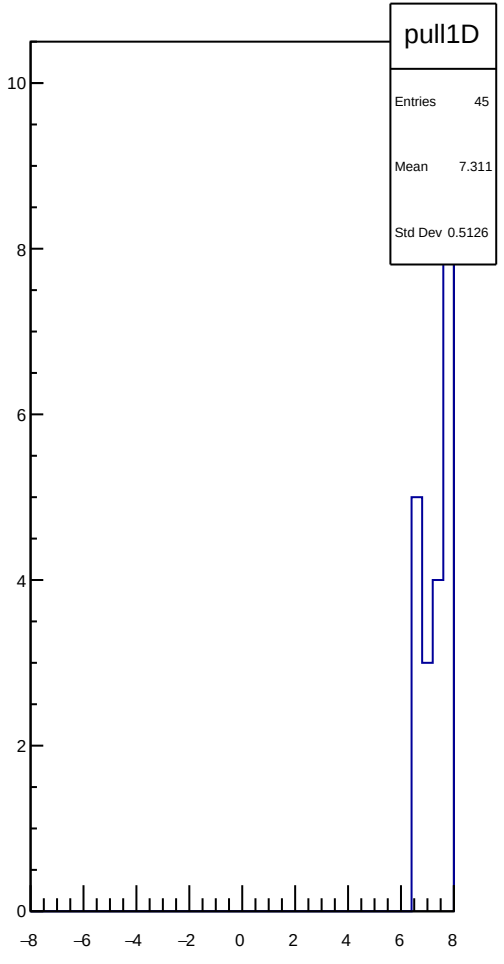

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.79 / 44
p0 11.27 ± 0.5988
pull
Entries 45
Mean 77.05
Std Dev 52.19

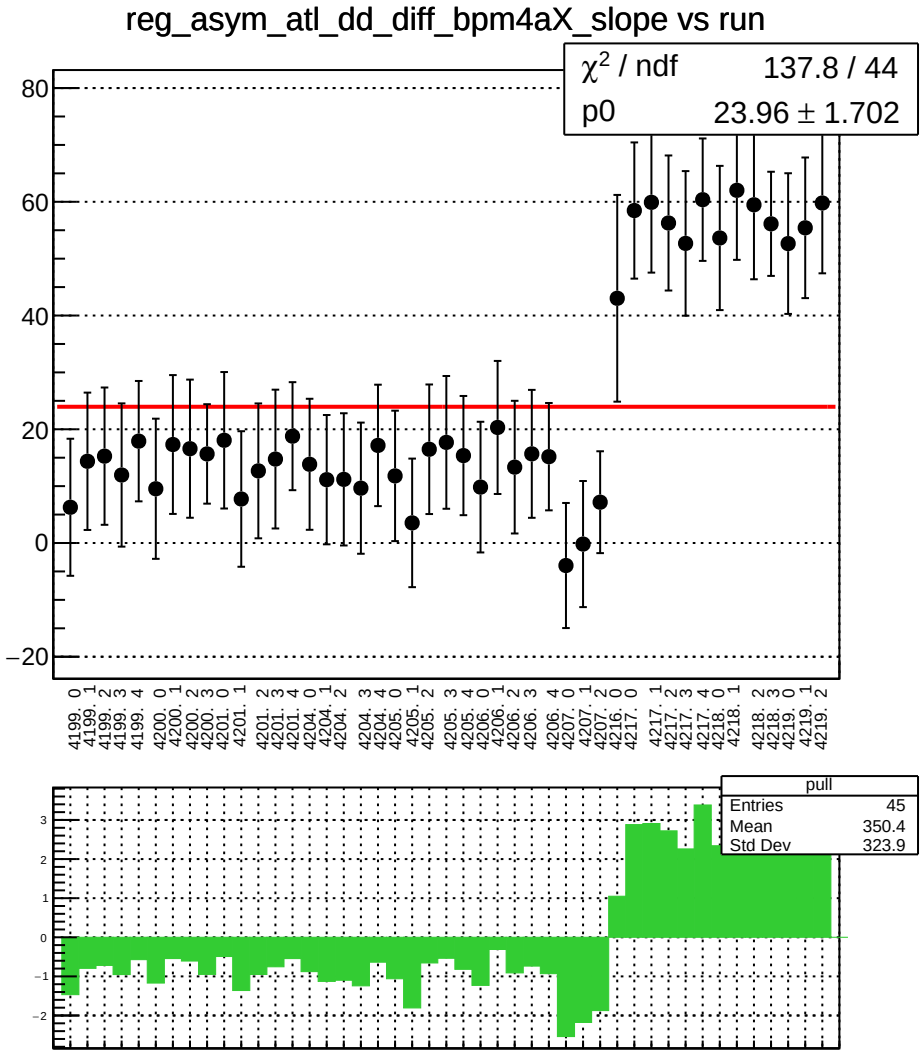

pull1D
Entries 45
Mean 0.03616
Std Dev 0.5721

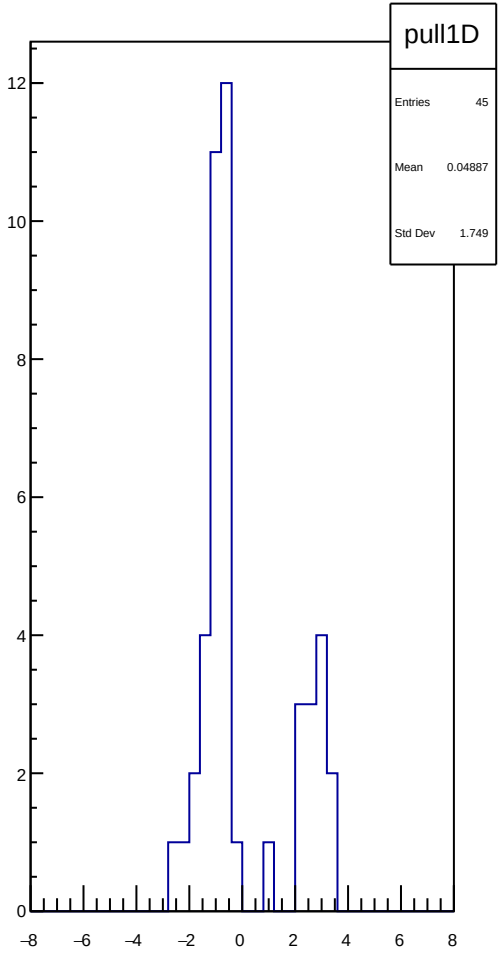

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 778.8 / 44
p0 −39.16 ± 0.1286
pull
Entries 45
Mean 58.42
Std Dev 29.22
pull1D
Entries 45
Mean −0.6925
Std Dev 3.759

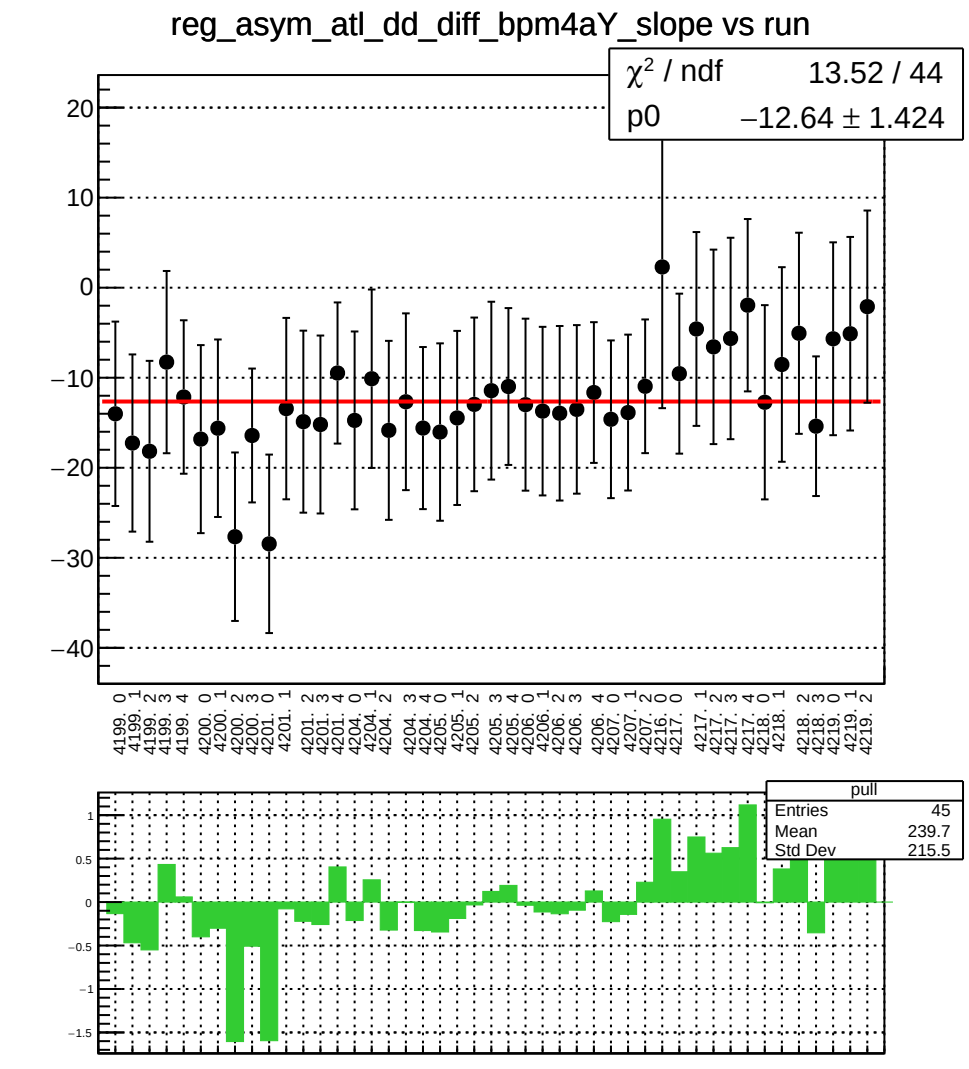

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.47 / 44
p0 5.376 ± 1.002
pull
Entries 45
Mean 65.17
Std Dev 36.05
pull1D
Entries 45
Mean 0.08385
Std Dev 0.6352

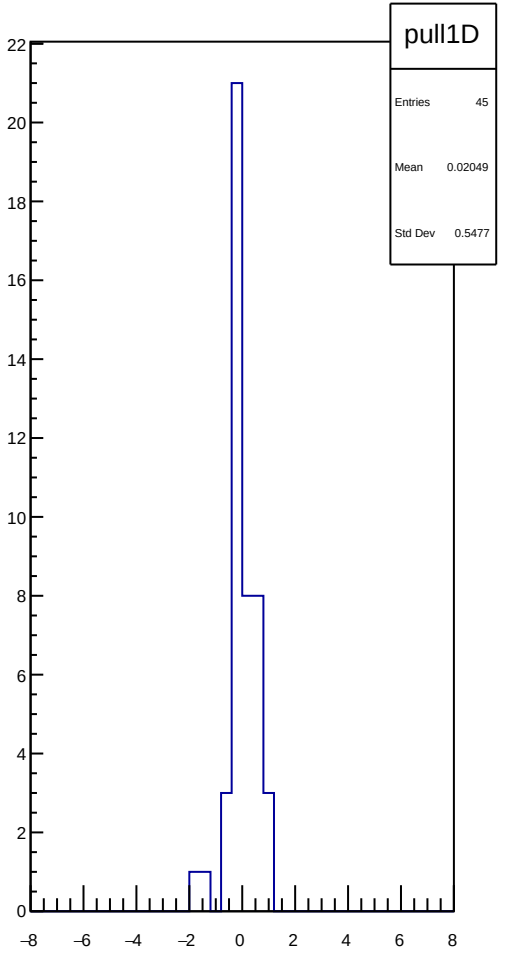

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 1.089e+04 / 44
p0 −104.1 ± 0.1906
pull
Entries 45
Mean 102.7
Std Dev 75.8

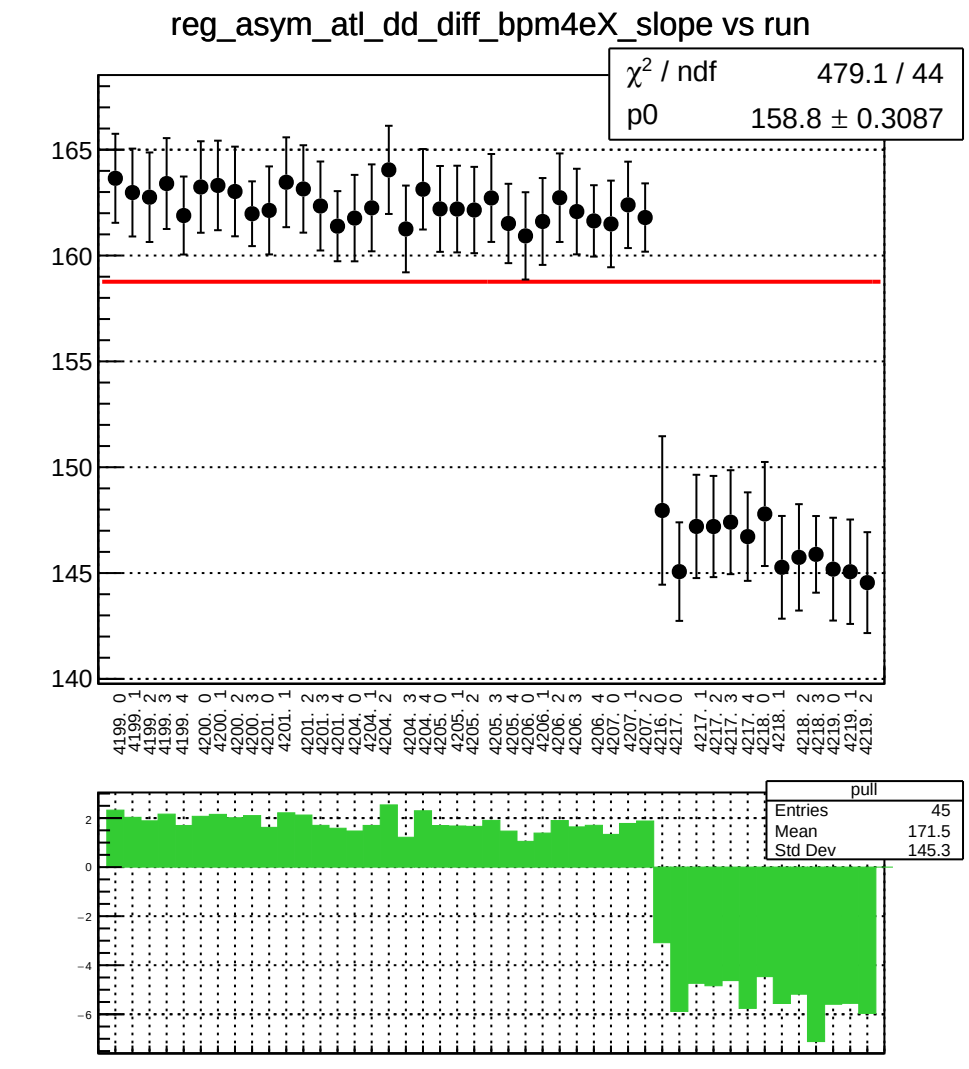

pull1D
Entries 45
Mean 7.311
Std Dev 0.5126

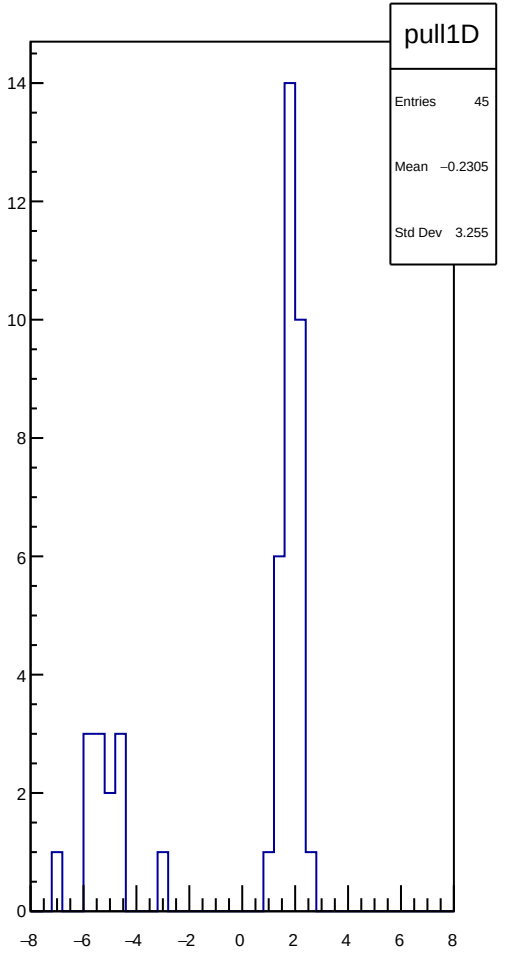

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 137.8 / 44
p0 23.96 ± 1.702
pull
Entries 45
Mean 350.4
Std Dev 323.9

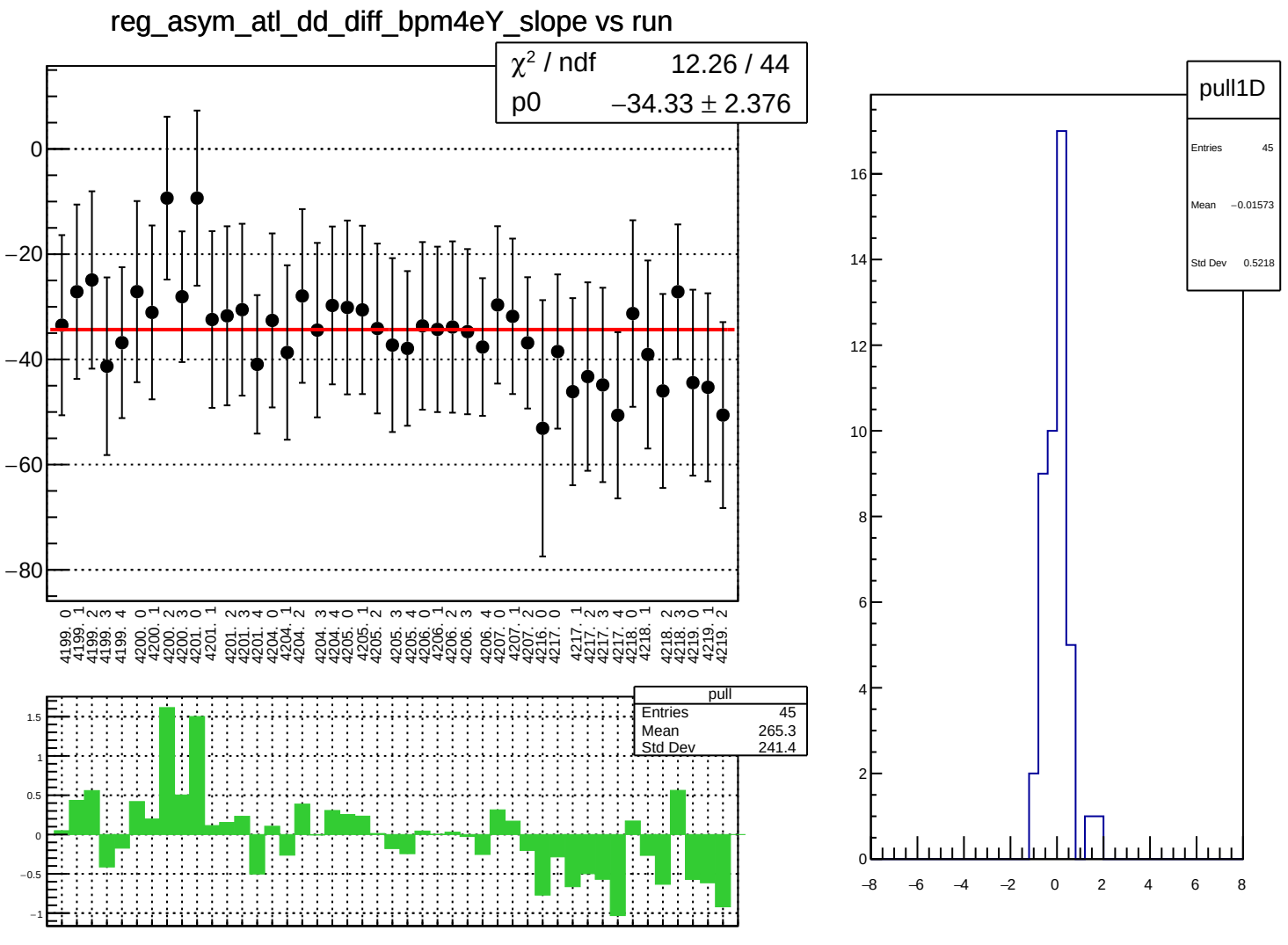

pull1D
Entries 45
Mean 0.04887
Std Dev 1.749

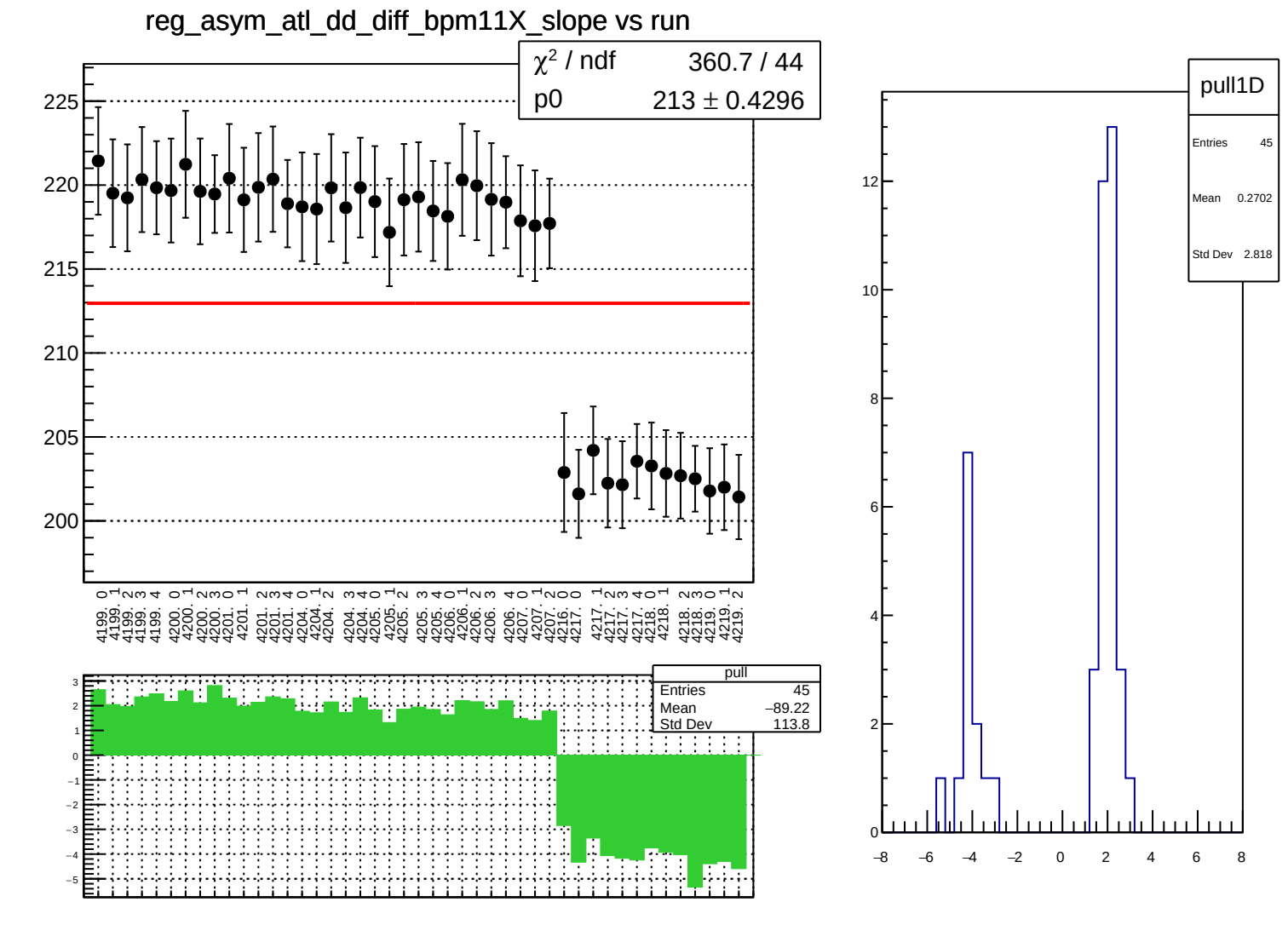

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.52 / 44
p0 −12.64 ± 1.424
pull
Entries 45
Mean 239.7
Std Dev 215.5

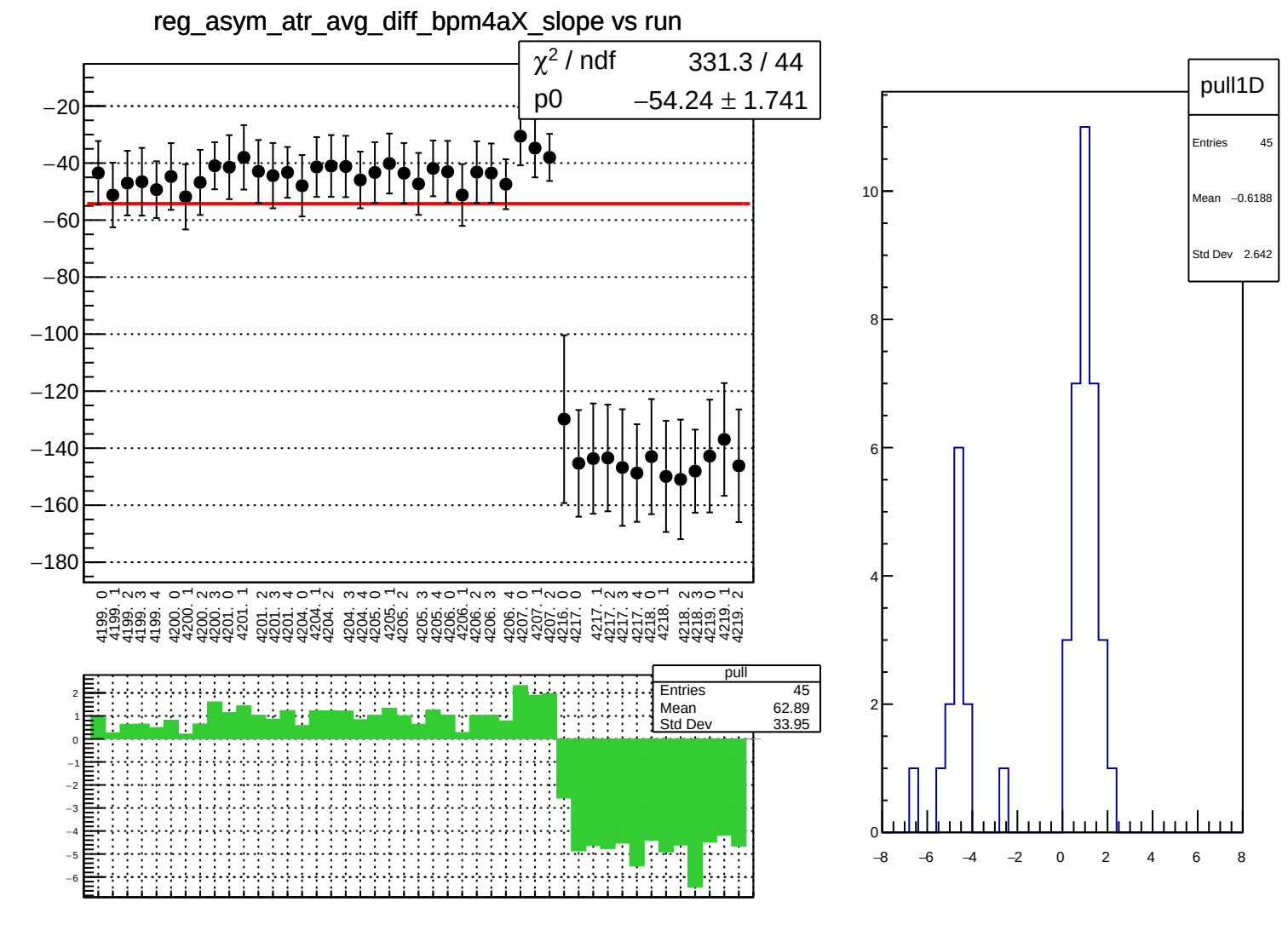

pull1D
Entries 45
Mean 0.02049
Std Dev 0.5477

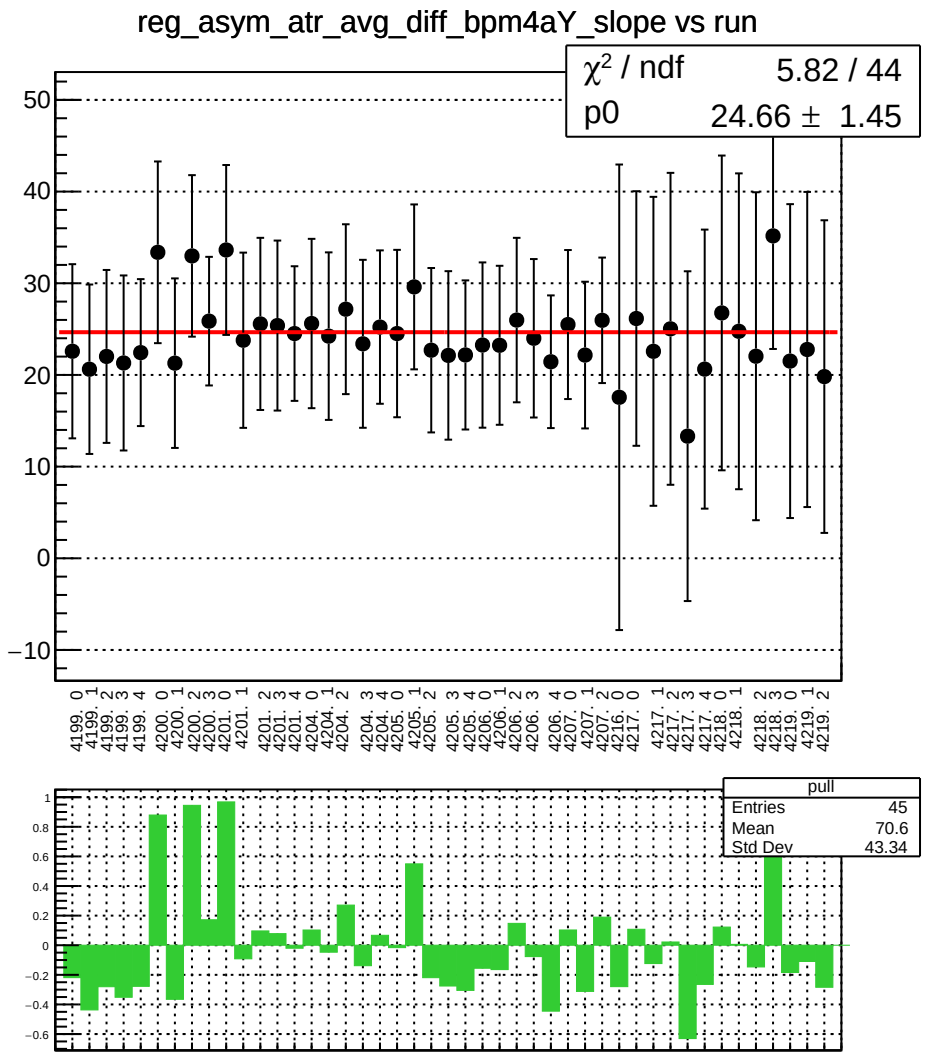

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 479.1 / 44
p0 158.8 ± 0.3087
pull
Entries 45
Mean 171.5
Std Dev 145.3

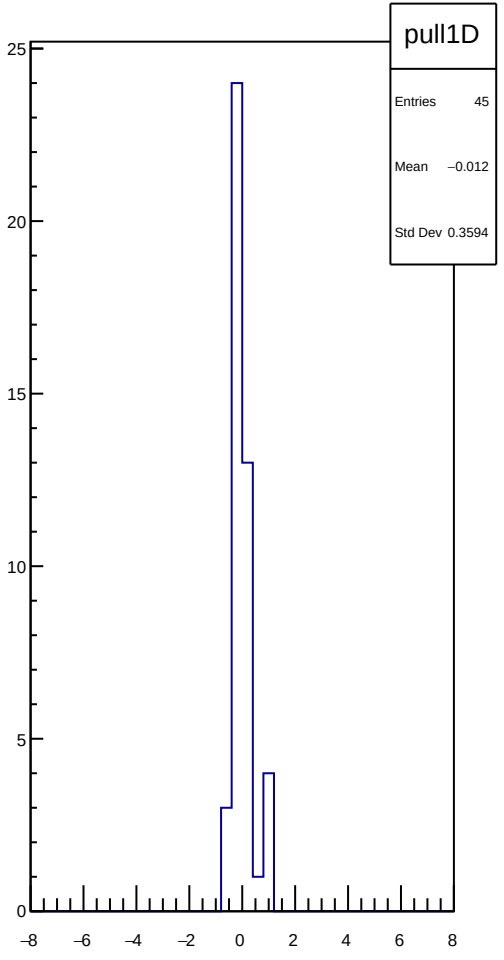

pull1D
Entries 45
Mean −0.2305
Std Dev 3.255

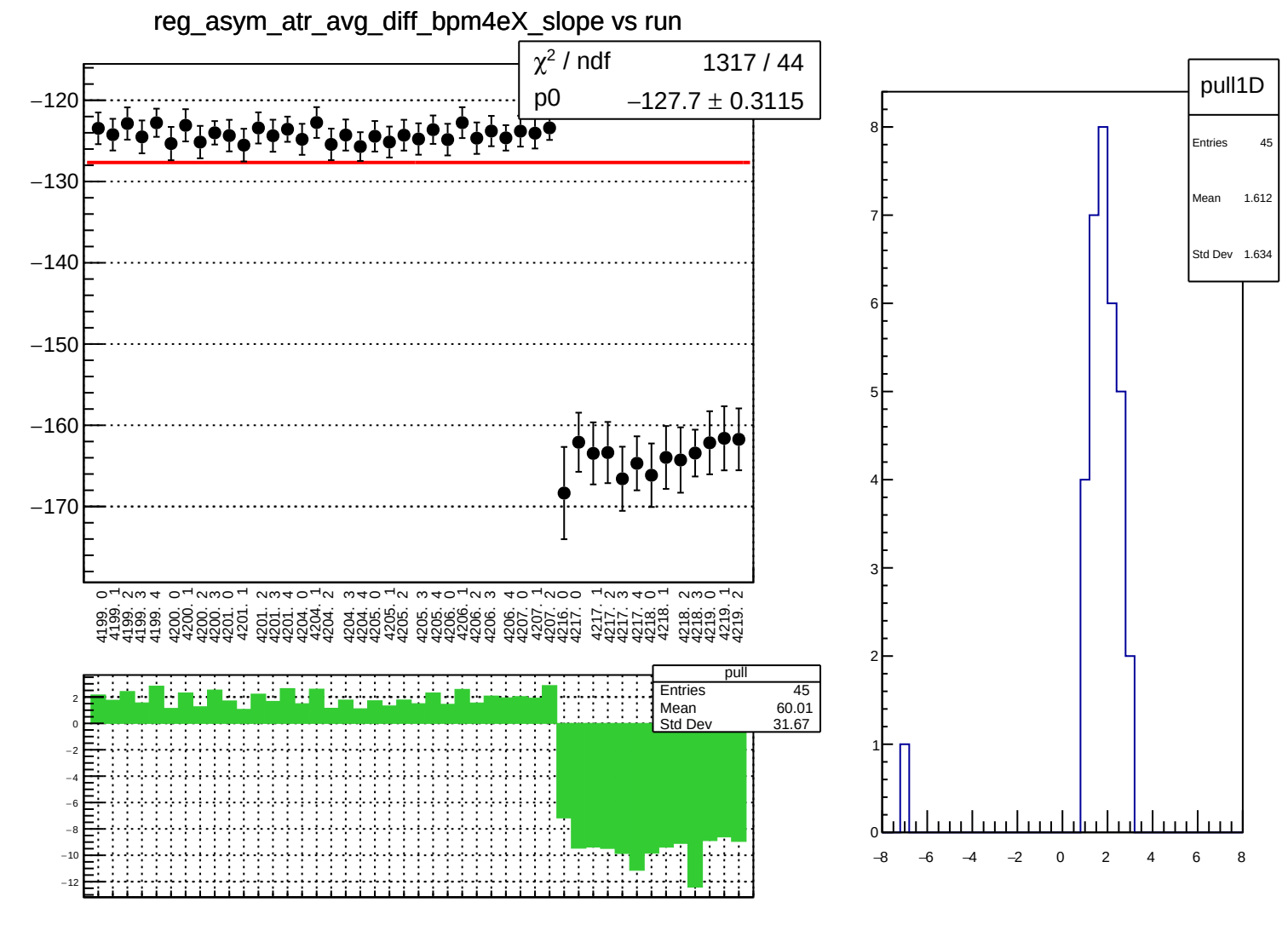

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.26 / 44
p0 −34.33 ± 2.376
0
−20
−40
−60
−80
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 265.3
Std Dev 241.4
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01573
Std Dev 0.5218
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

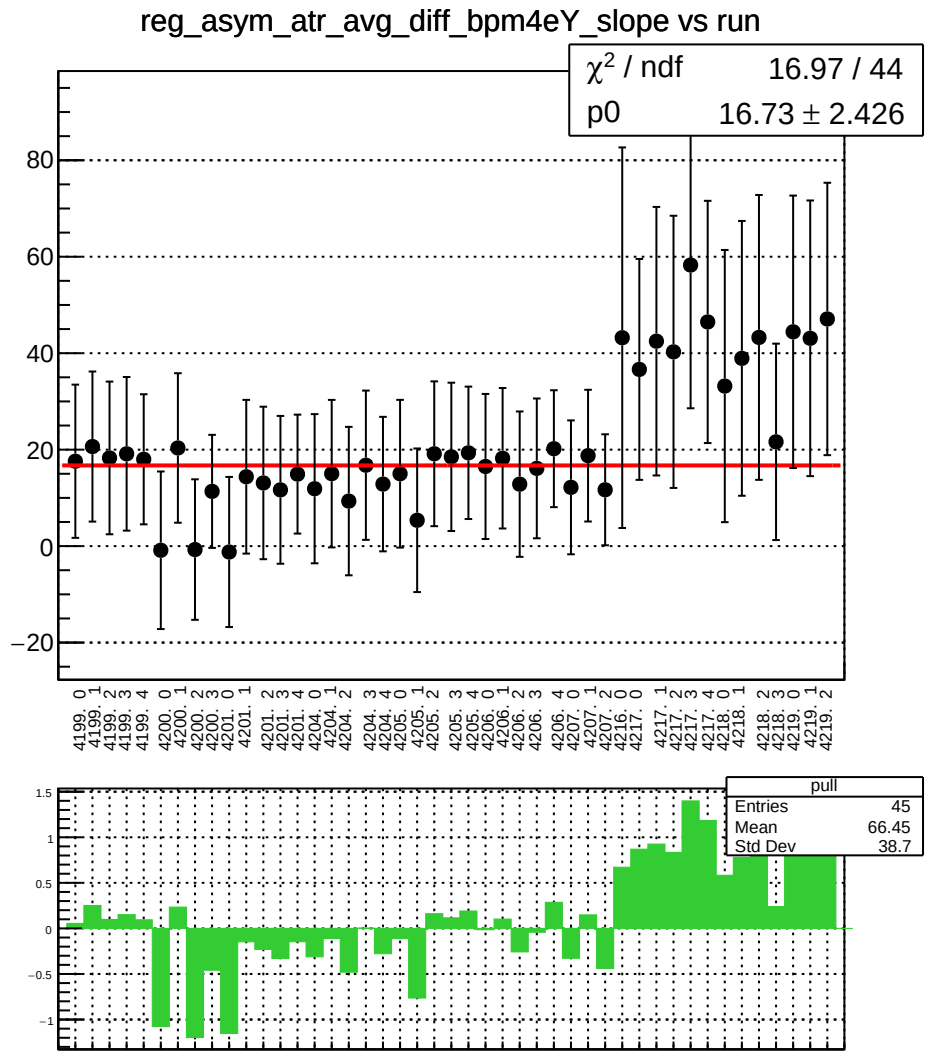

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 360.7 / 44
p0 213 ± 0.4296
225
220
215
210
205
200
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −89.22
Std Dev 113.8
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 45
Mean 0.2702
Std Dev 2.818
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

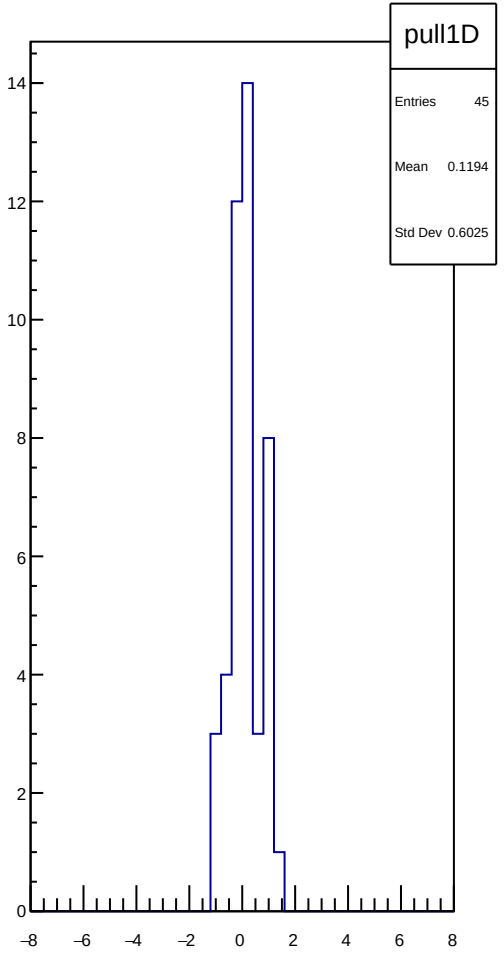

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 331.3 / 44
p0 −54.24 ± 1.741
pull
Entries 45
Mean 62.89
Std Dev 33.95
pull1D
Entries 45
Mean −0.6188
Std Dev 2.642

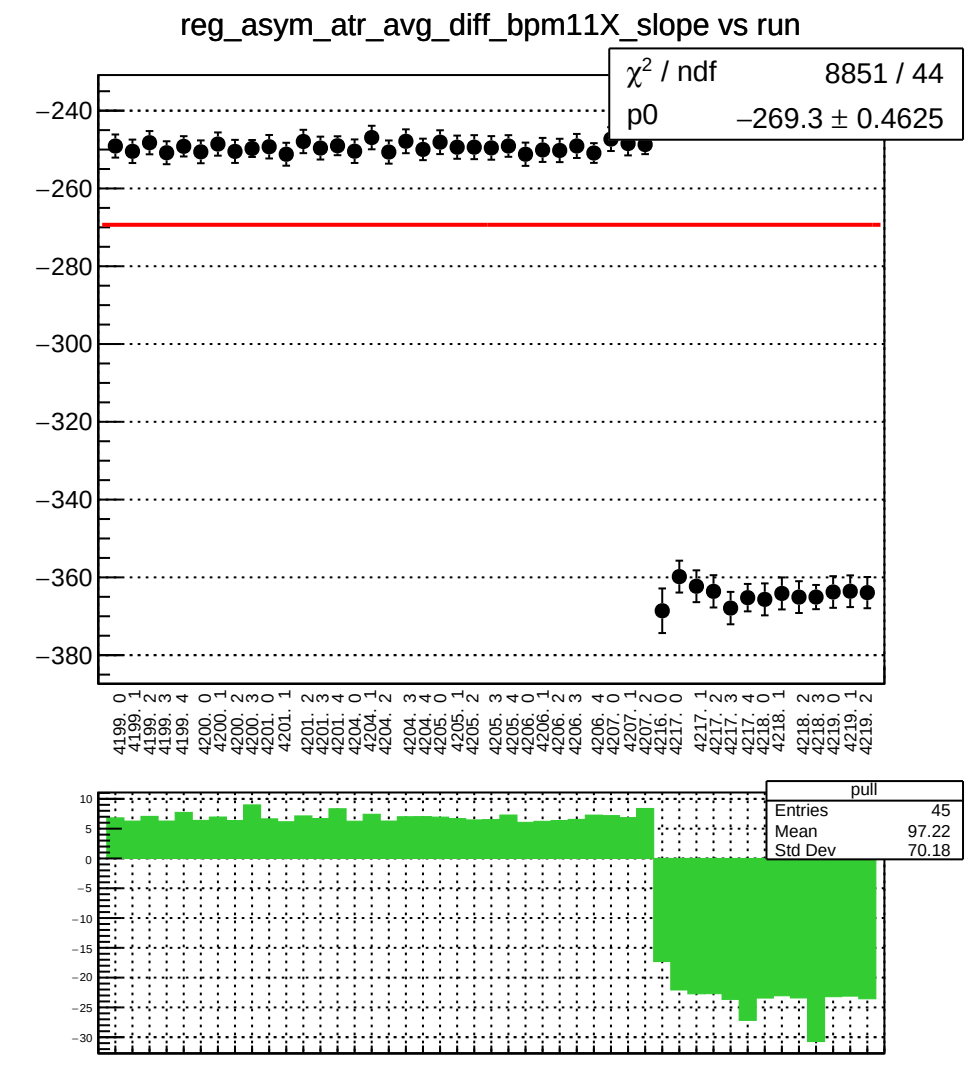

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.82 / 44
p0 24.66 ± 1.45
pull
Entries 45
Mean 70.6
Std Dev 43.34

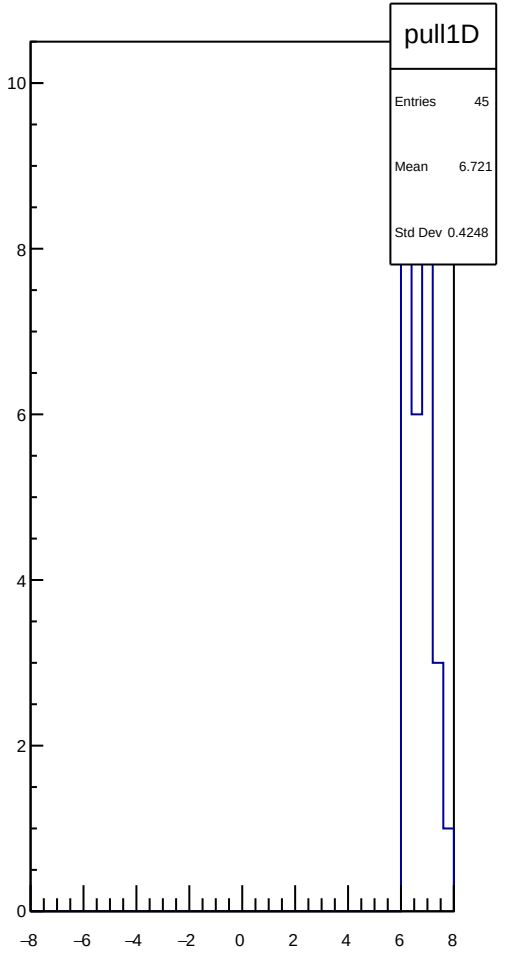

pull1D
Entries 45
Mean −0.012
Std Dev 0.3594

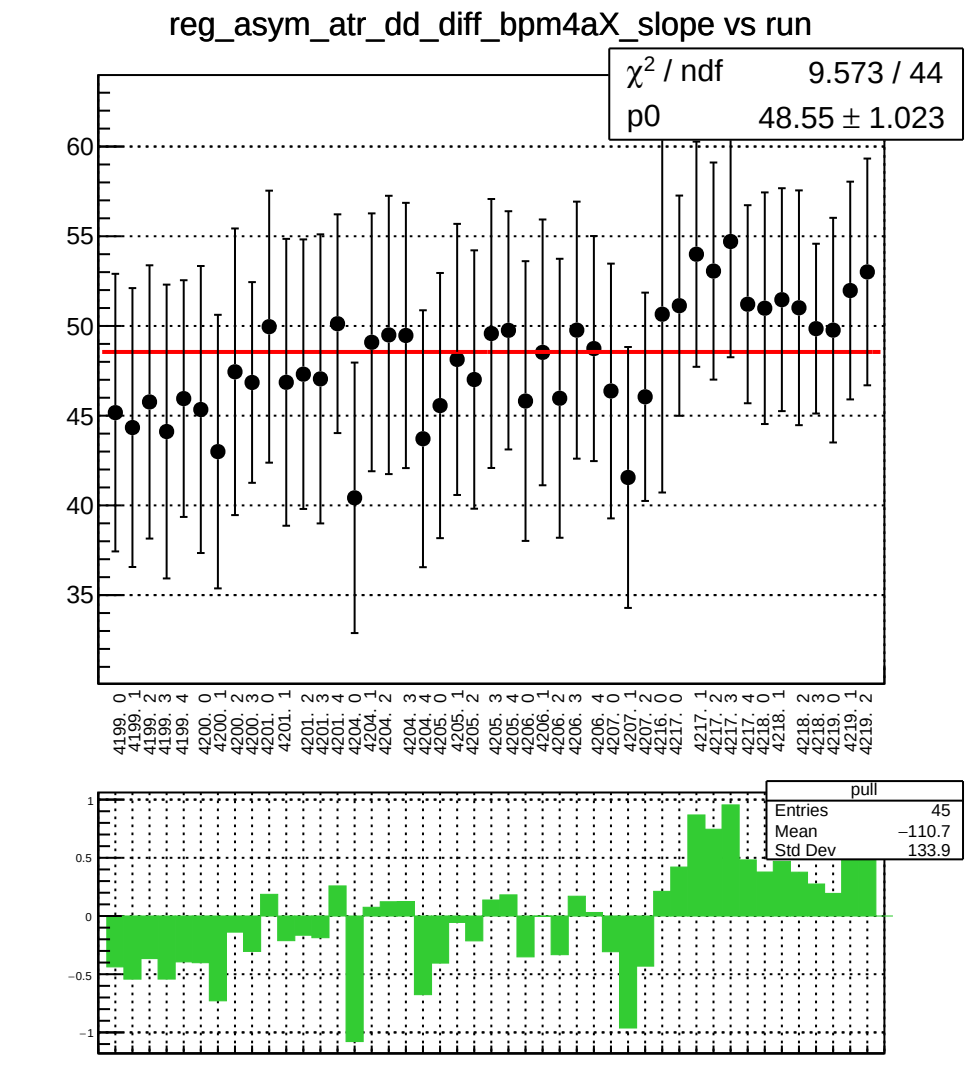

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 1317 / 44
p0 −127.7 ± 0.3115
−120
−130
−140
−150
−160
−170
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 60.01
Std Dev 31.67
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 45
Mean 1.612
Std Dev 1.634
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

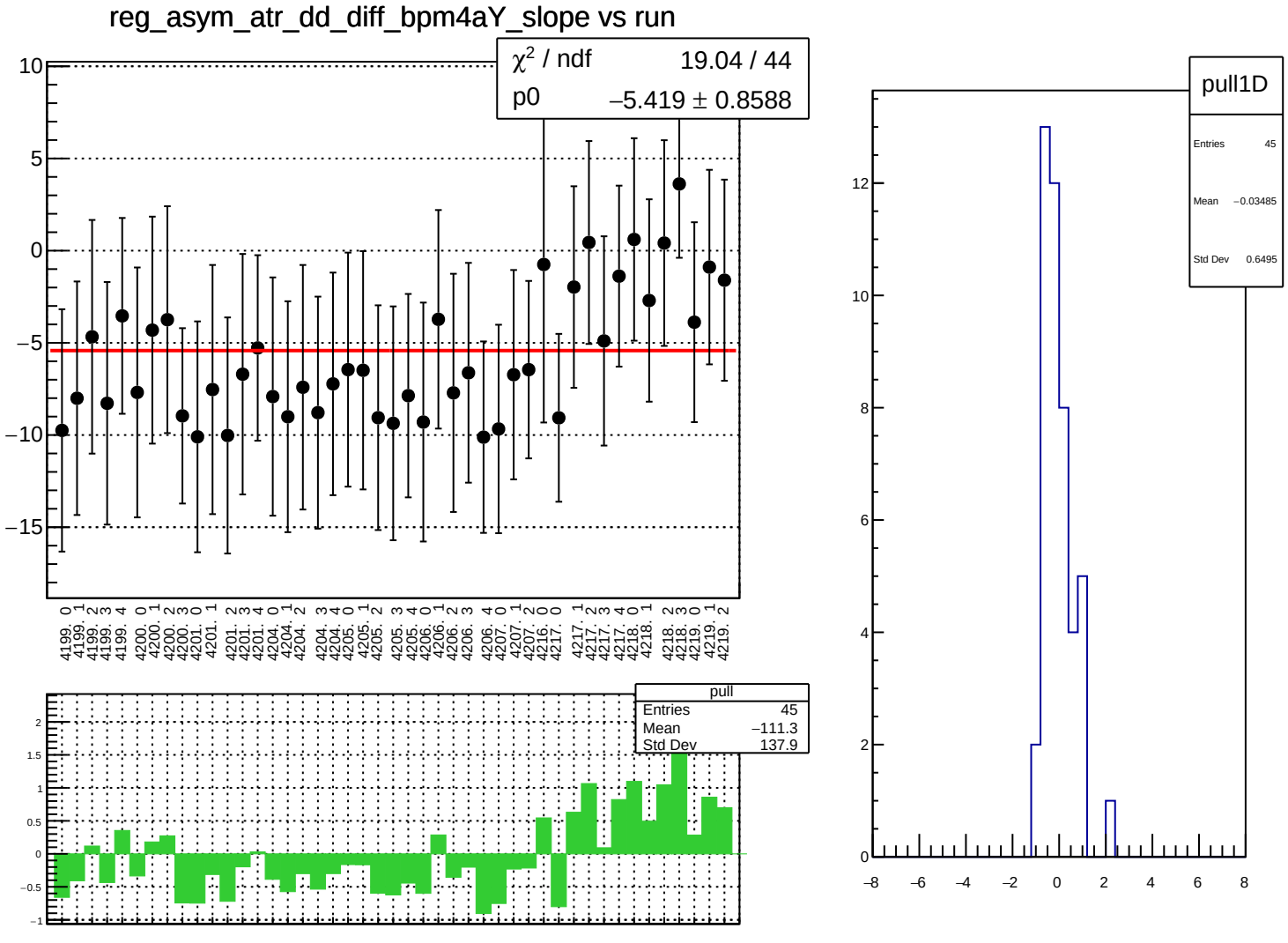

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.97 / 44
p0 16.73 ± 2.426
pull
Entries 45
Mean 66.45
Std Dev 38.7

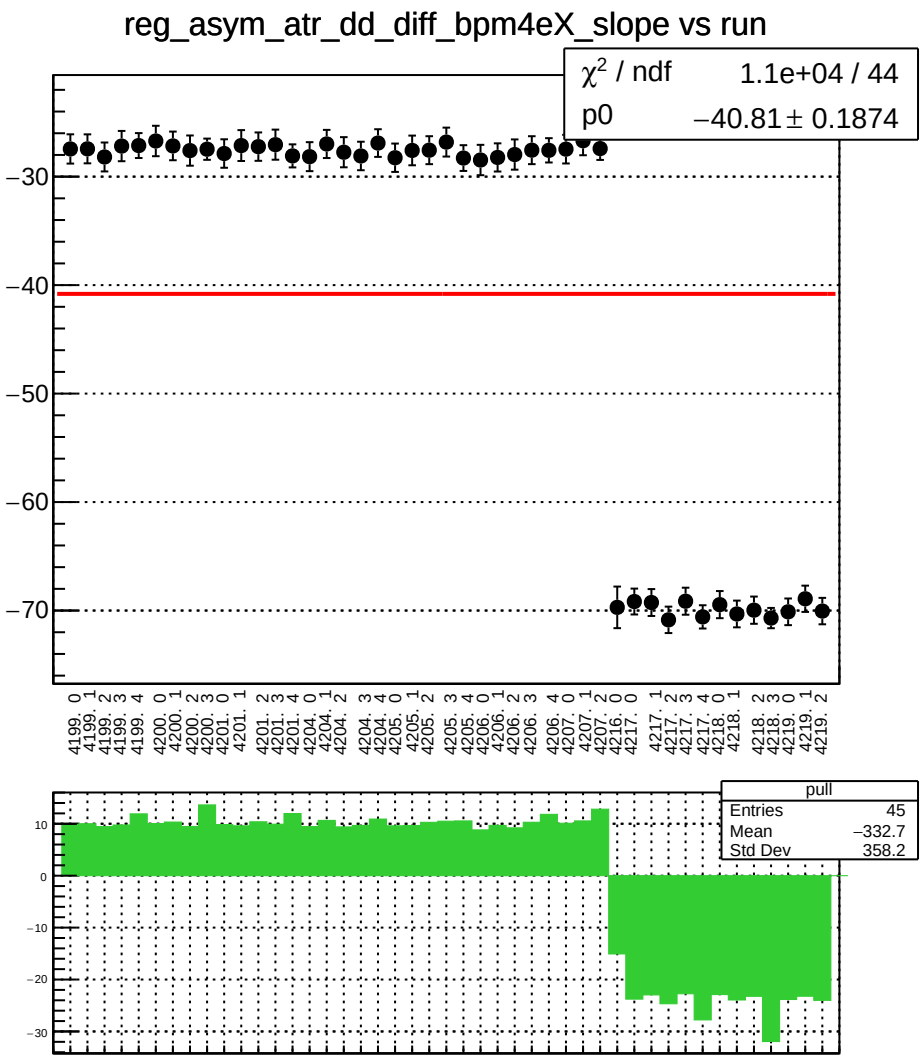

pull1D
Entries 45
Mean 0.1194
Std Dev 0.6025

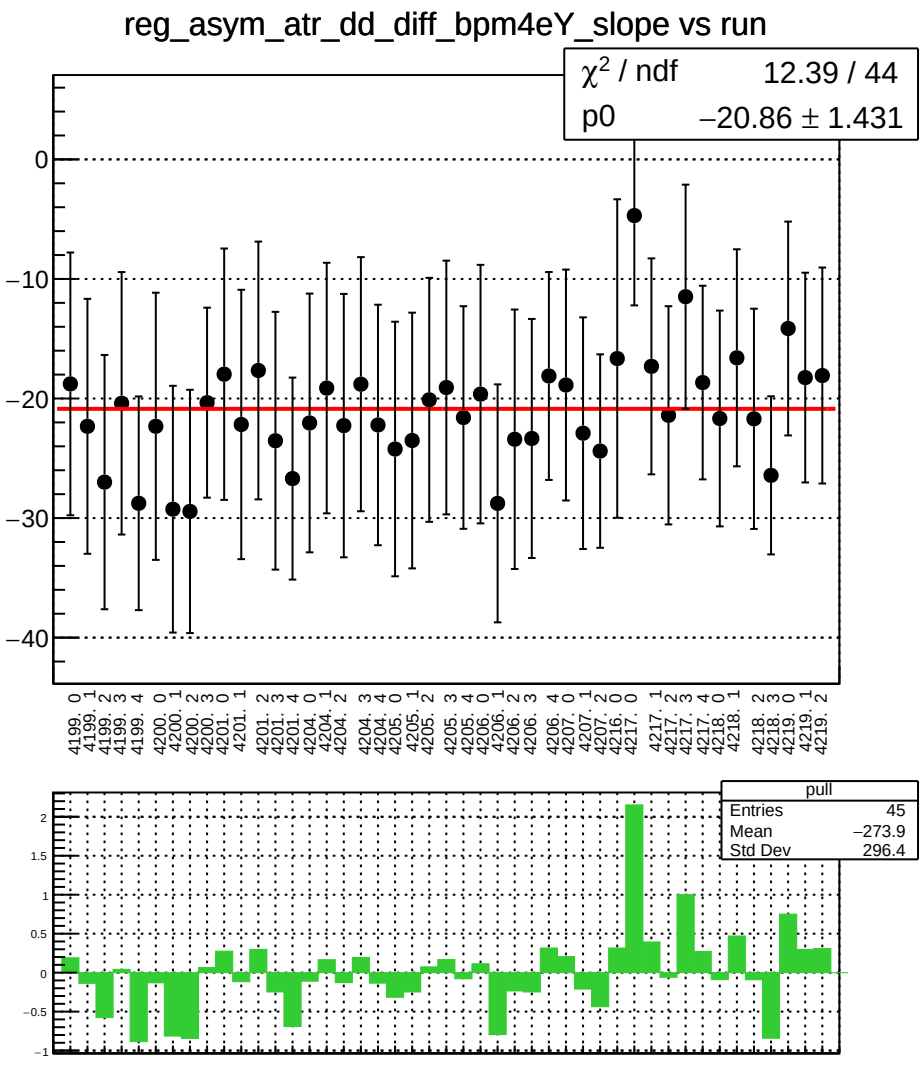

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 8851 / 44
p0 −269.3 ± 0.4625
pull
Entries 45
Mean 97.22
Std Dev 70.18

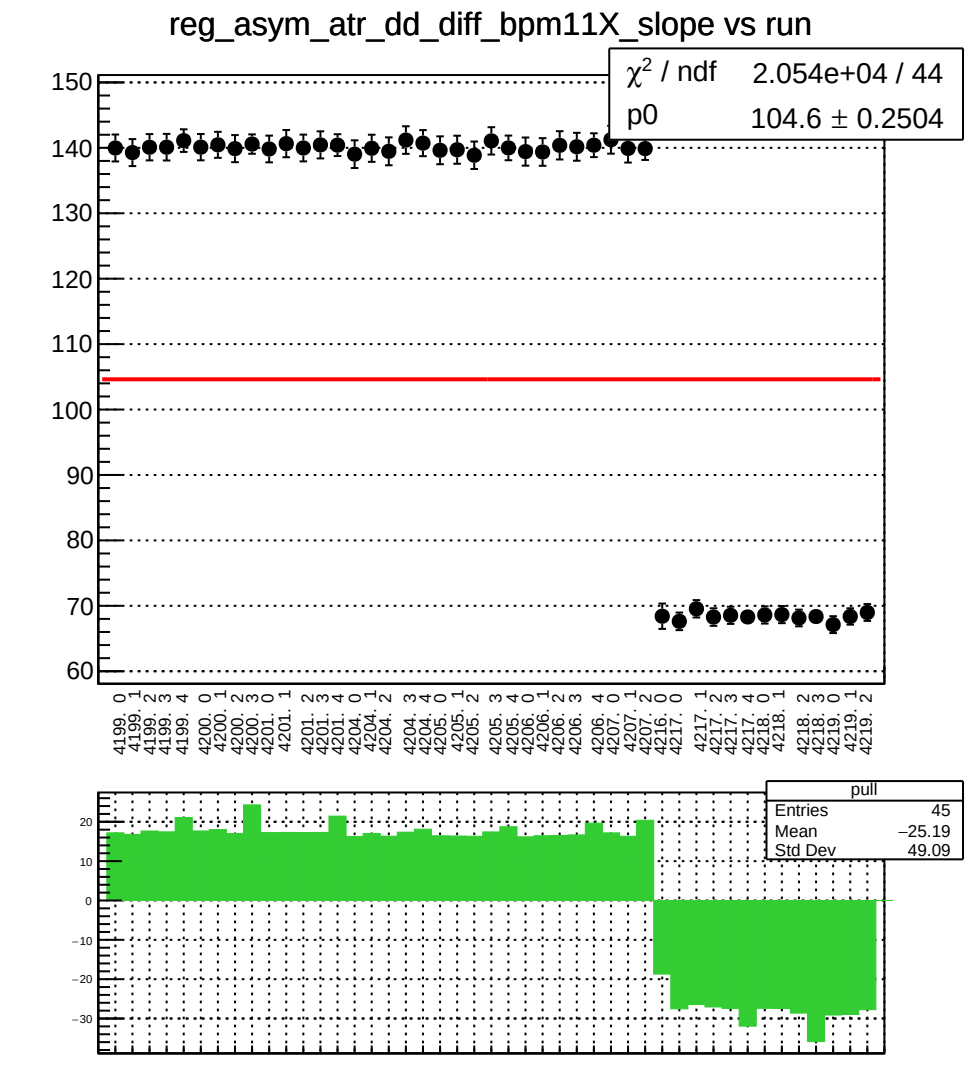

pull1D
Entries 45
Mean 6.721
Std Dev 0.4248

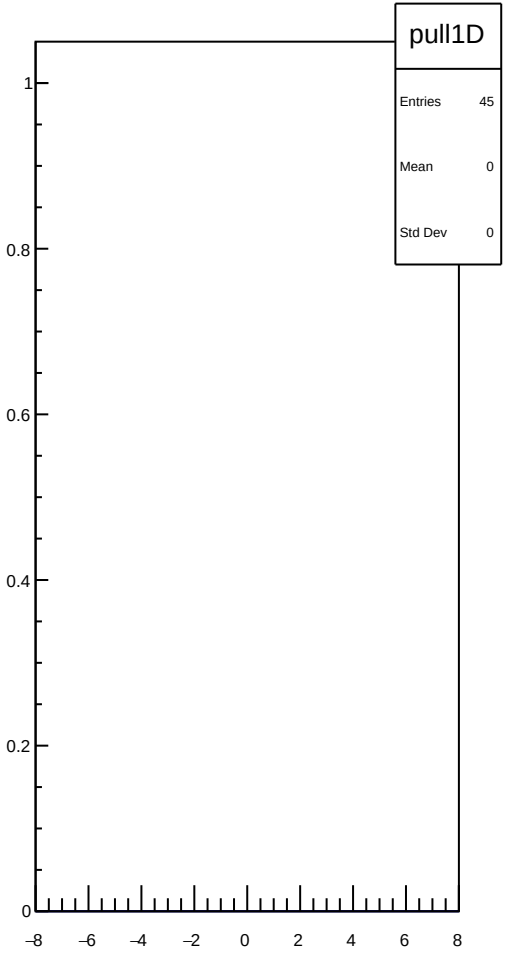

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 9.573 / 44
p0 48.55 ± 1.023
60
55
50
45
40
35
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −110.7
Std Dev 133.9
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.02888
Std Dev 0.4603
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

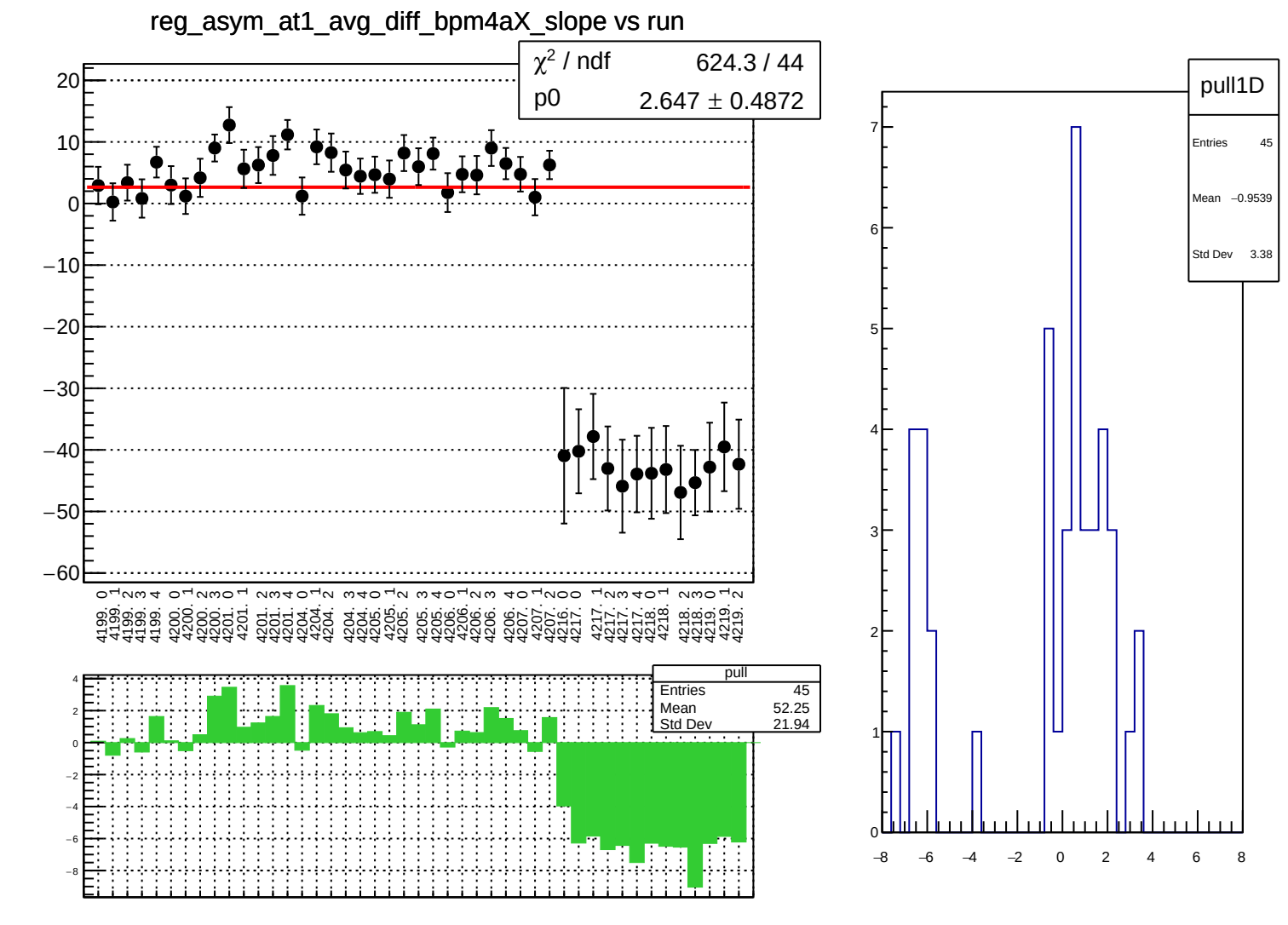

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.04 / 44
p0 −5.419 ± 0.8588
pull
Entries 45
Mean −111.3
Std Dev 137.9
pull1D
Entries 45
Mean −0.03485
Std Dev 0.6495

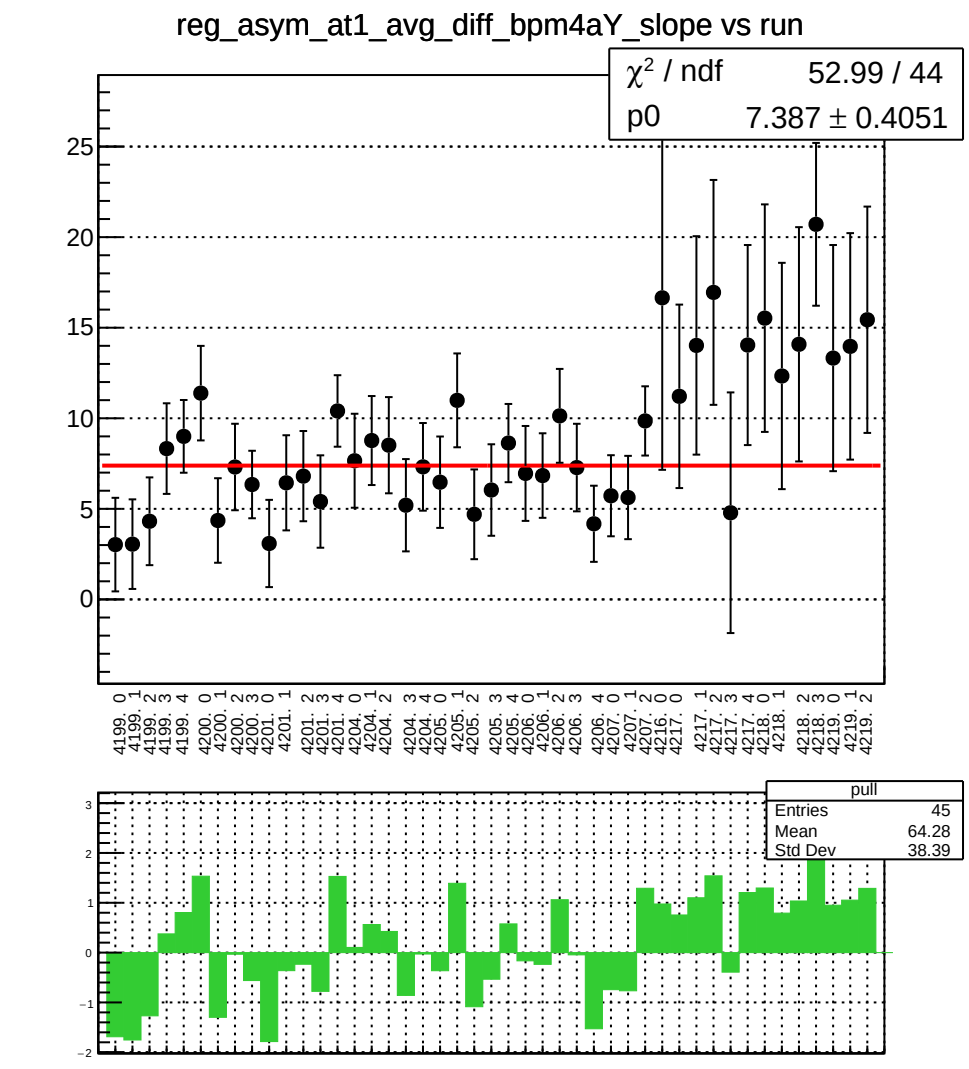

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.1e+04 / 44
p0 −40.81 ± 0.1874
−30
−40
−50
−60
−70
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −332.7
Std Dev 358.2
10
0
−10
−20
−30
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

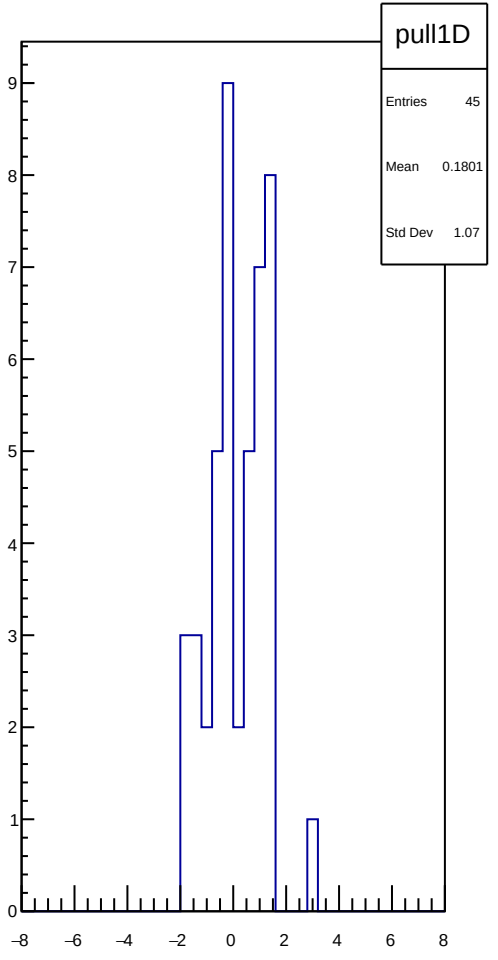

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.39 / 44
p0 −20.86 ± 1.431
0
−10
−20
−30
−40
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −273.9
Std Dev 296.4
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.008707
Std Dev 0.5247
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

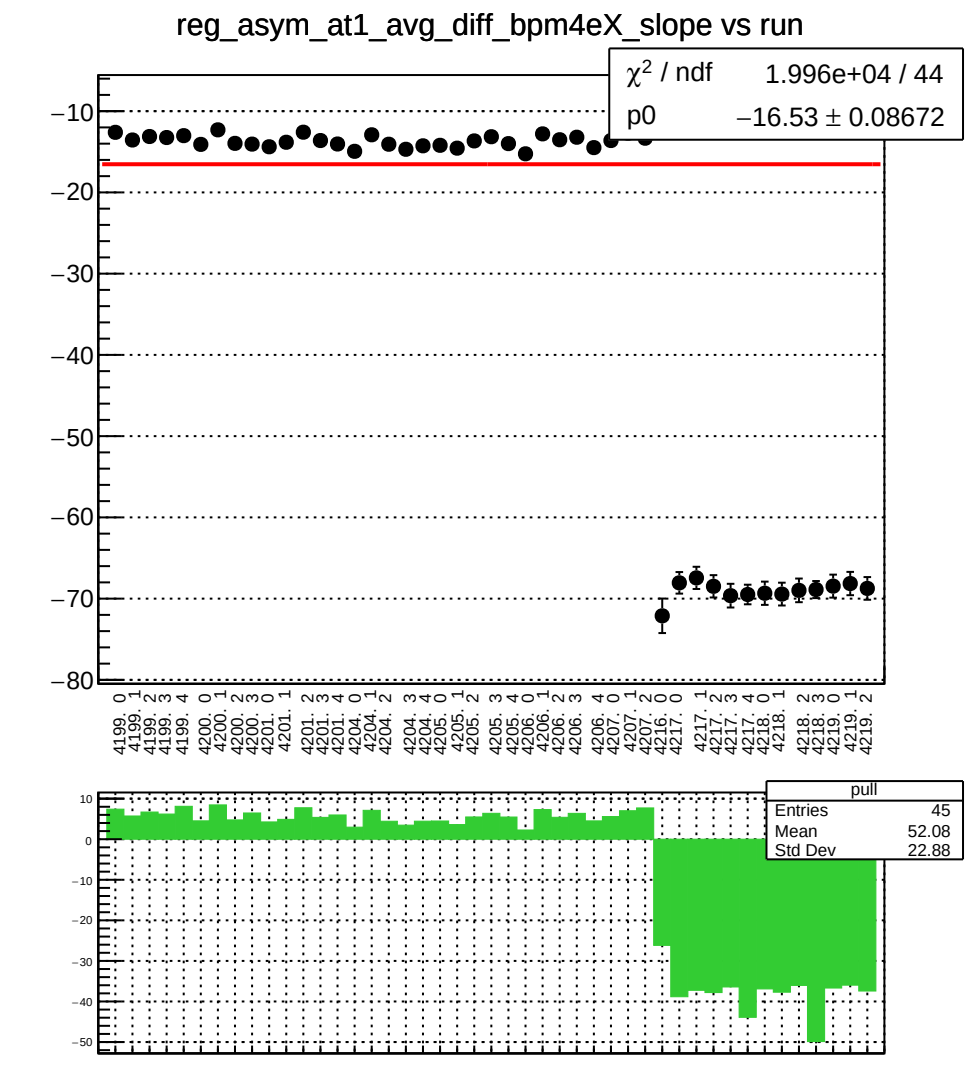

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 2.054e+04 / 44
p0 104.6 ± 0.2504
150
140
130
120
110
100
90
80
70
60
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −25.19
Std Dev 49.09
20
10
0
−10
−20
−30

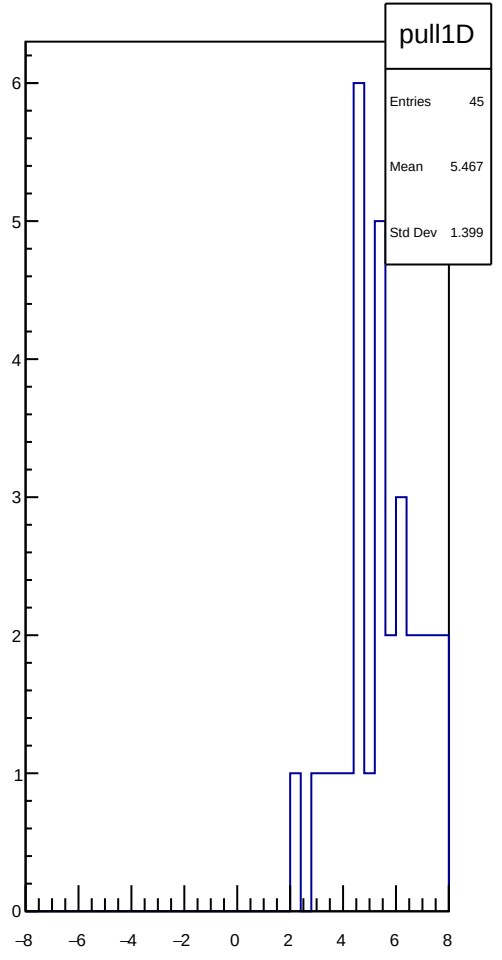

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

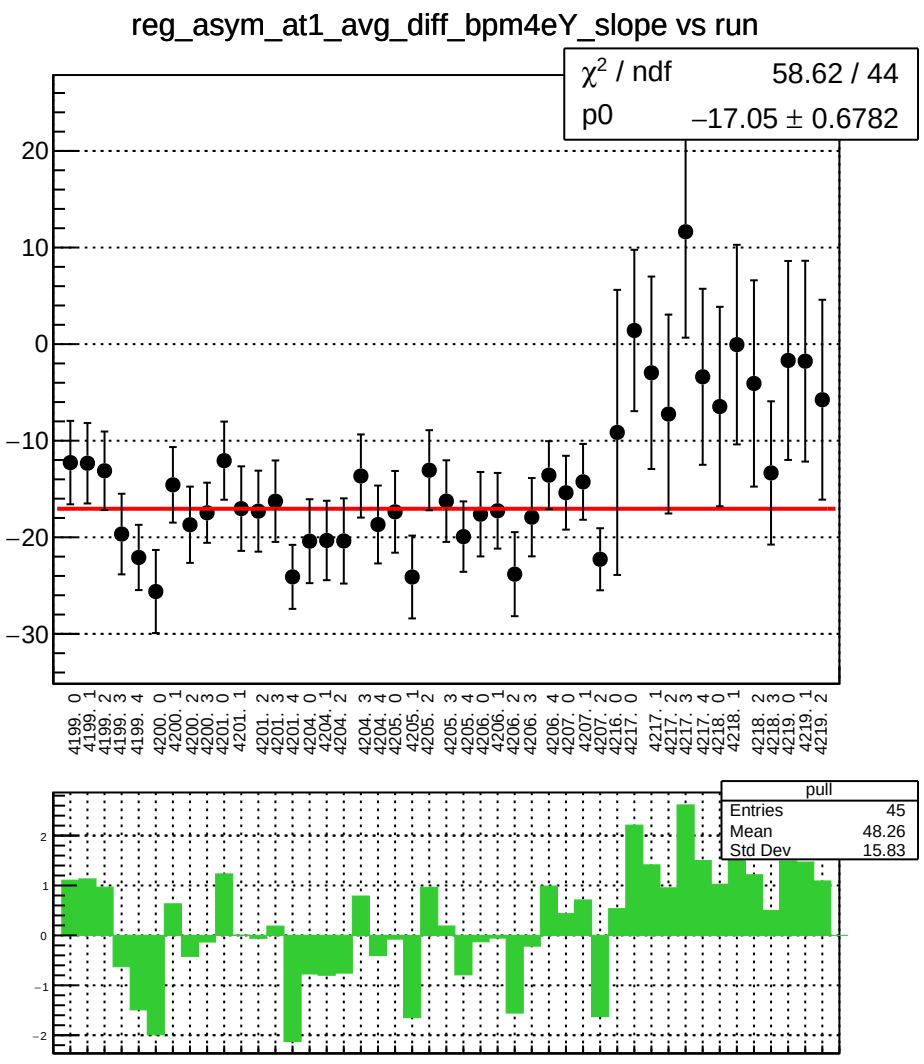

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 624.3 / 44
p0 2.647 ± 0.4872
pull
Entries 45
Mean 52.25
Std Dev 21.94
pull1D
Entries 45
Mean −0.9539
Std Dev 3.38

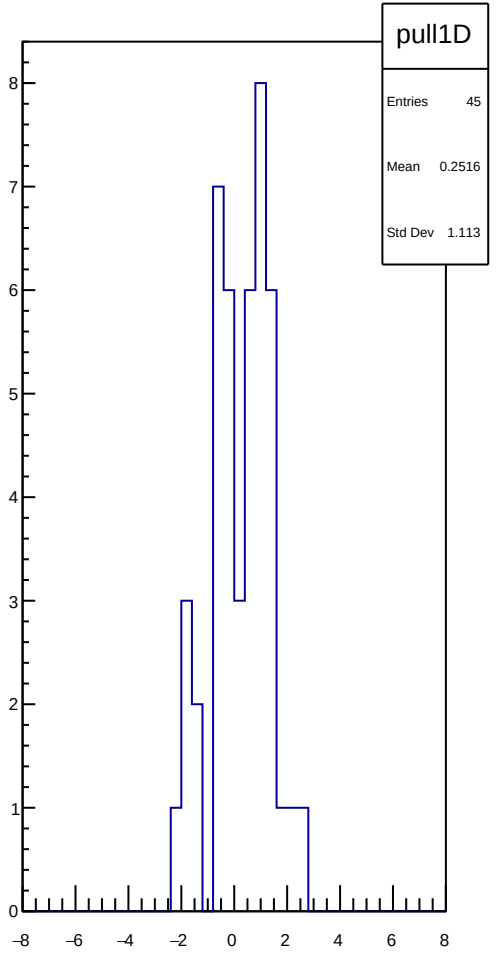

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.99 / 44
p0 7.387 ± 0.4051
pull
Entries 45
Mean 64.28
Std Dev 38.39

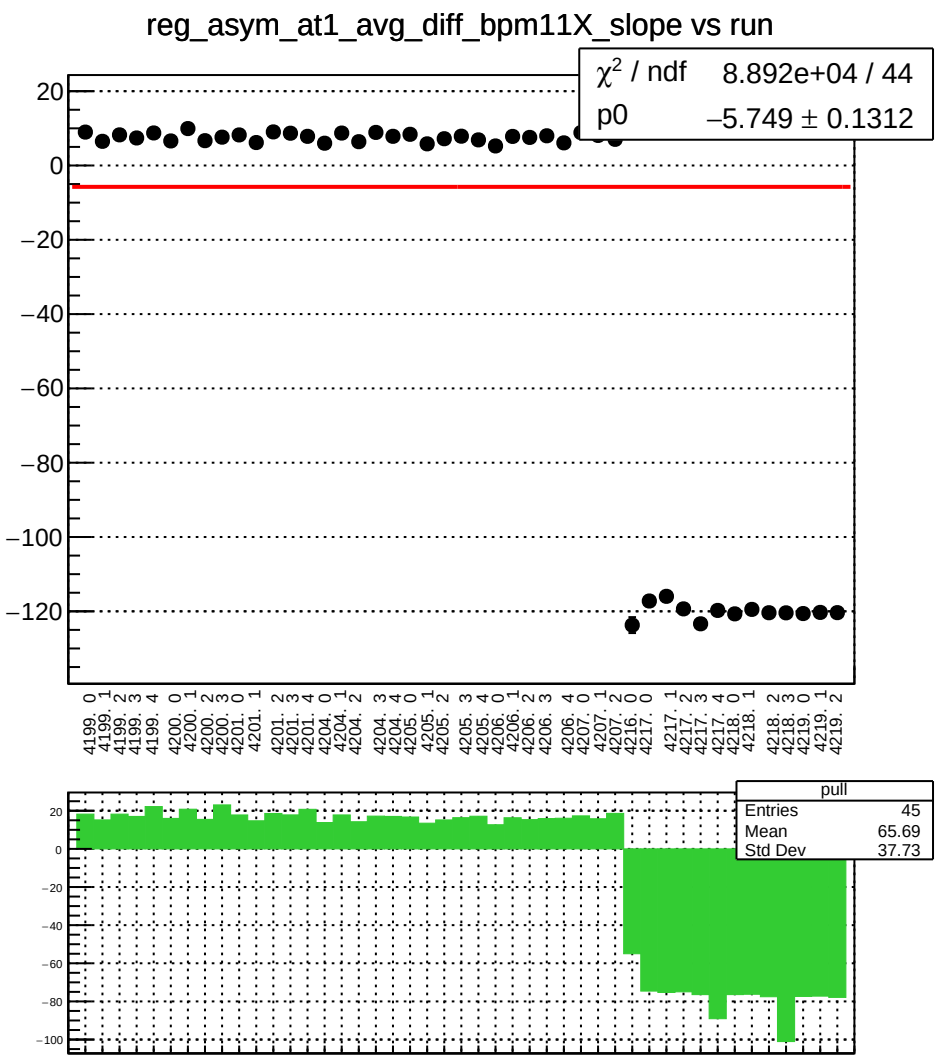

pull1D
Entries 45
Mean 0.1801
Std Dev 1.07

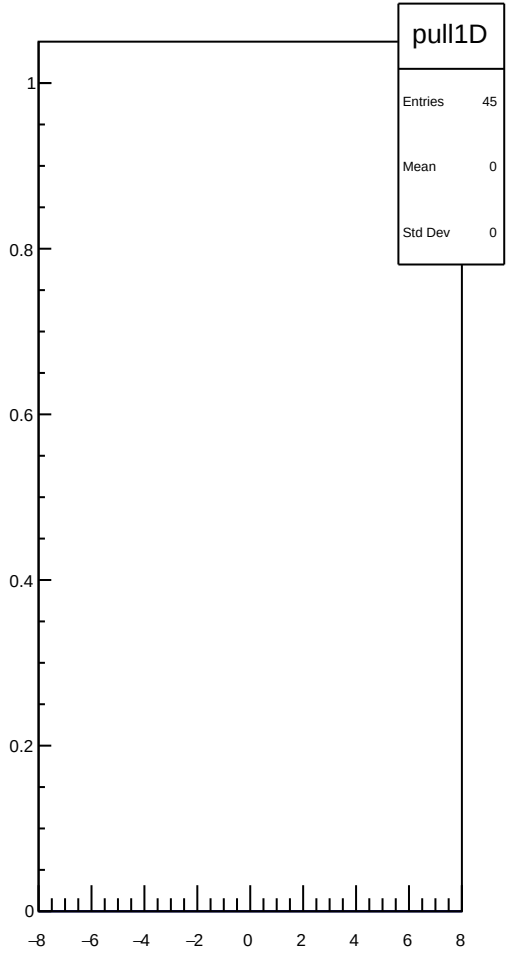

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.996e+04 / 44
p0 −16.53 ± 0.08672
pull
Entries 45
Mean 52.08
Std Dev 22.88

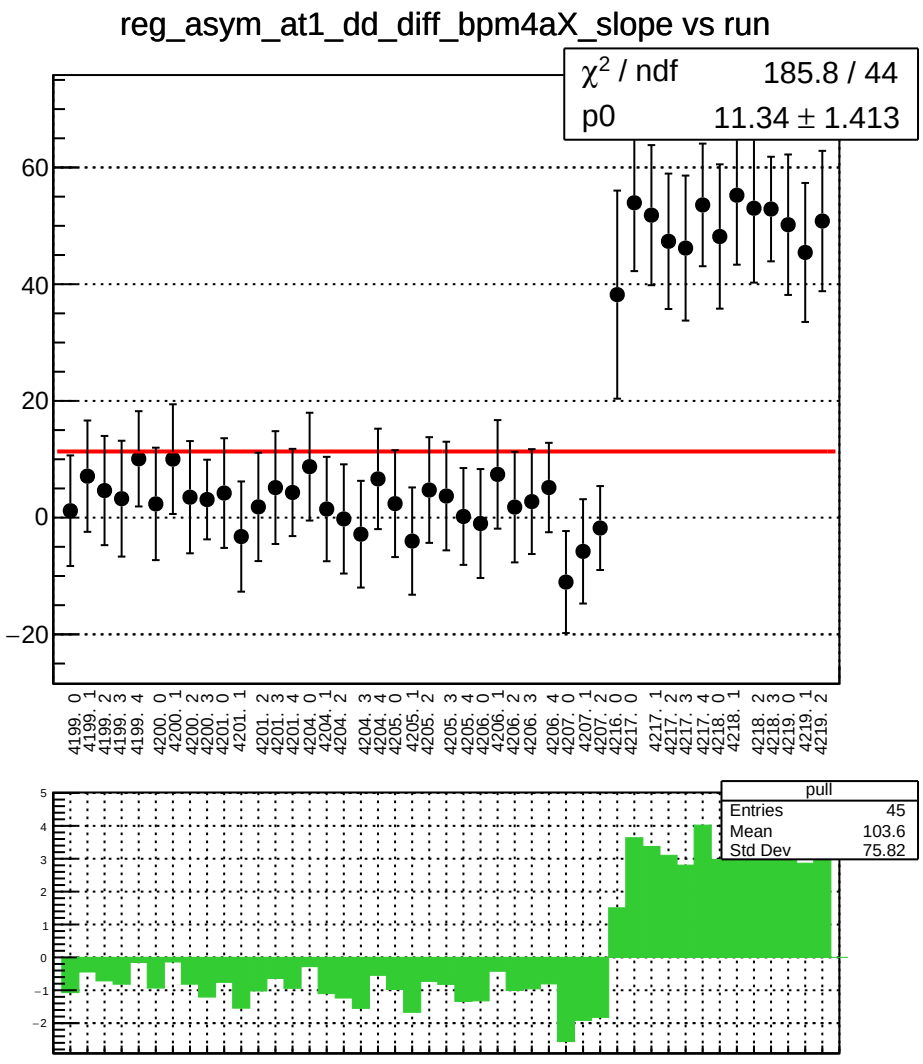

pull1D
Entries 45
Mean 5.467
Std Dev 1.399

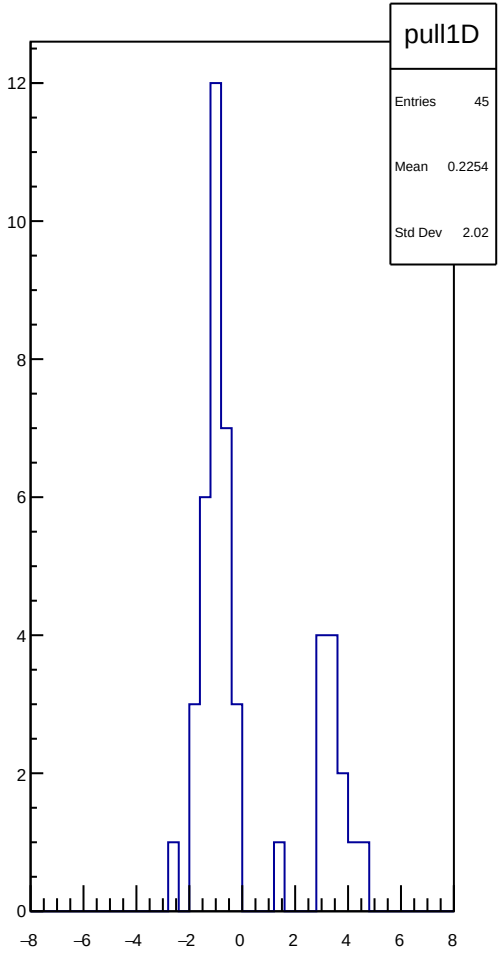

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.62 / 44
p0 −17.05 ± 0.6782
pull
Entries 45
Mean 48.26
Std Dev 15.83

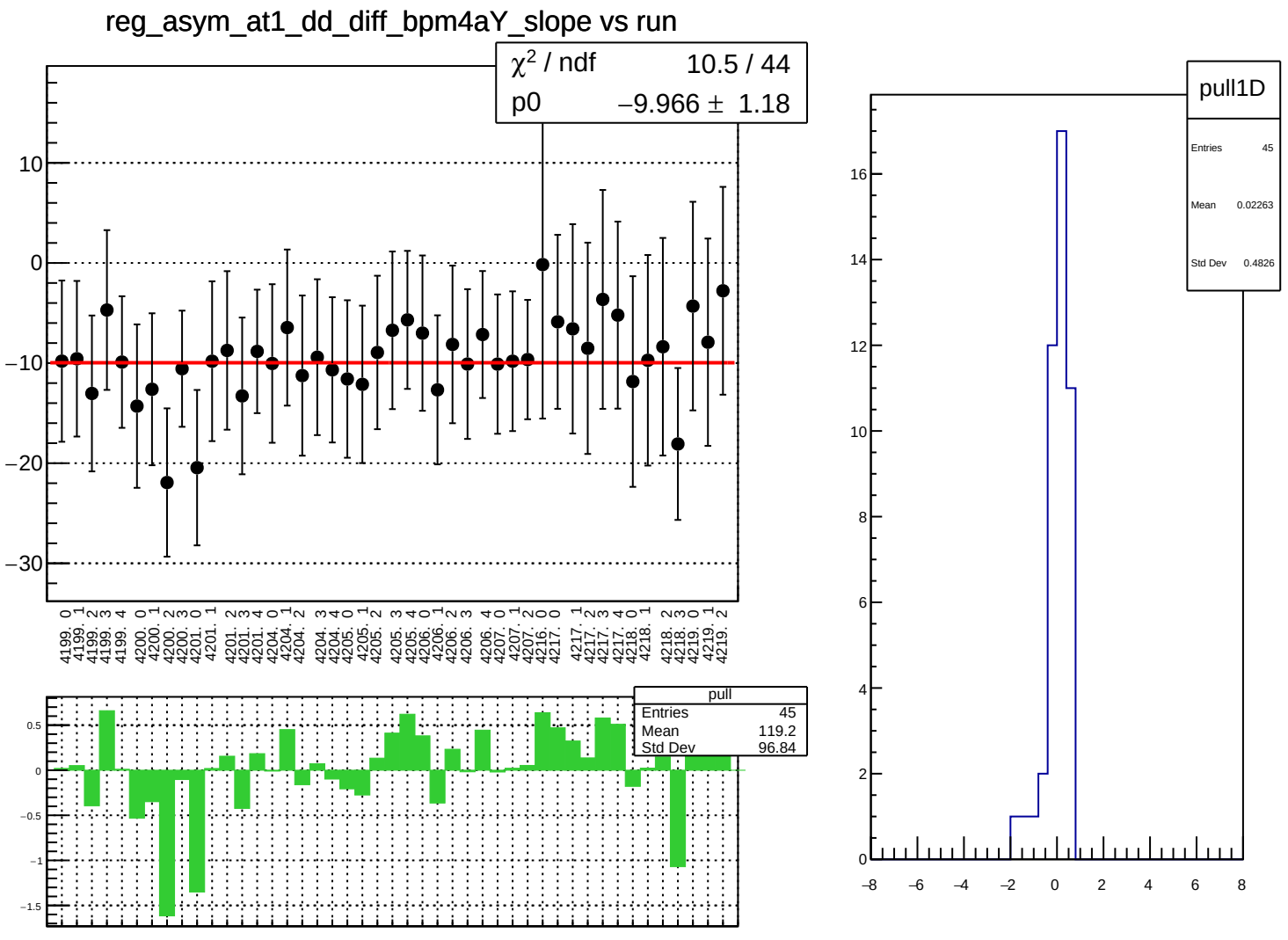

pull1D
Entries 45
Mean 0.2516
Std Dev 1.113

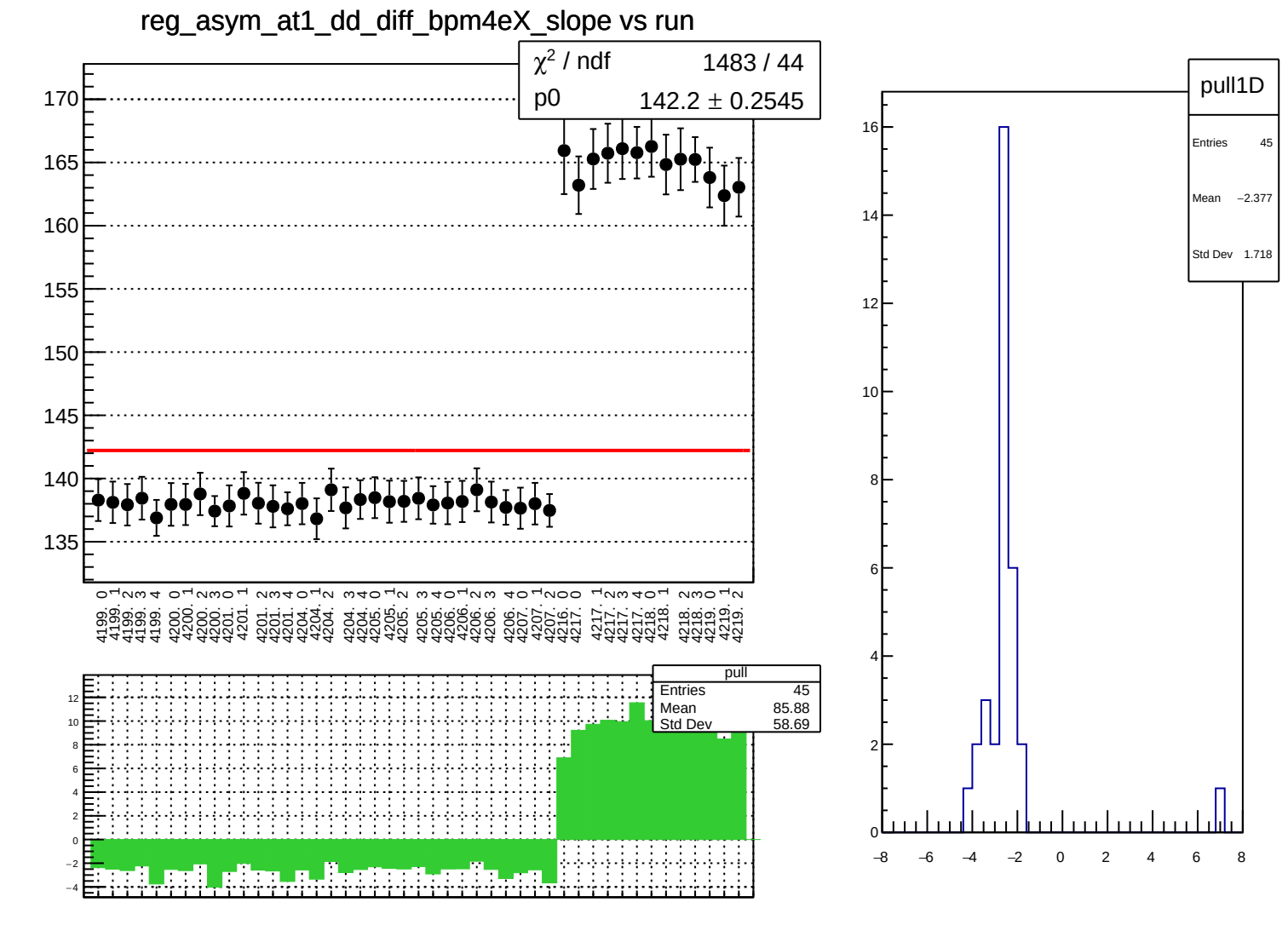

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 8.892e+04 / 44
p0 −5.749 ± 0.1312
pull
Entries 45
Mean 65.69
Std Dev 37.73

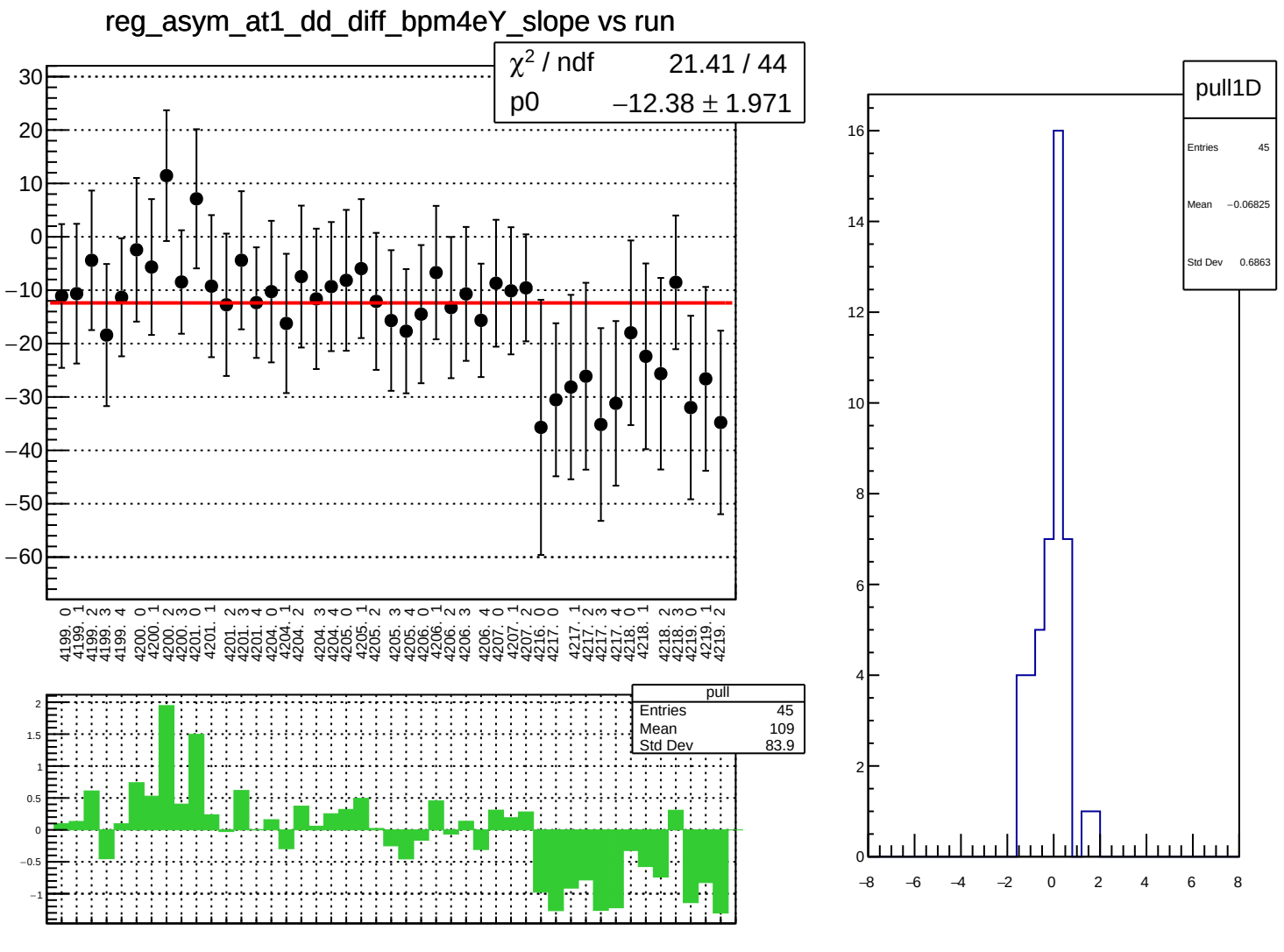

pull1D
Entries 45
Mean 0
Std Dev 0

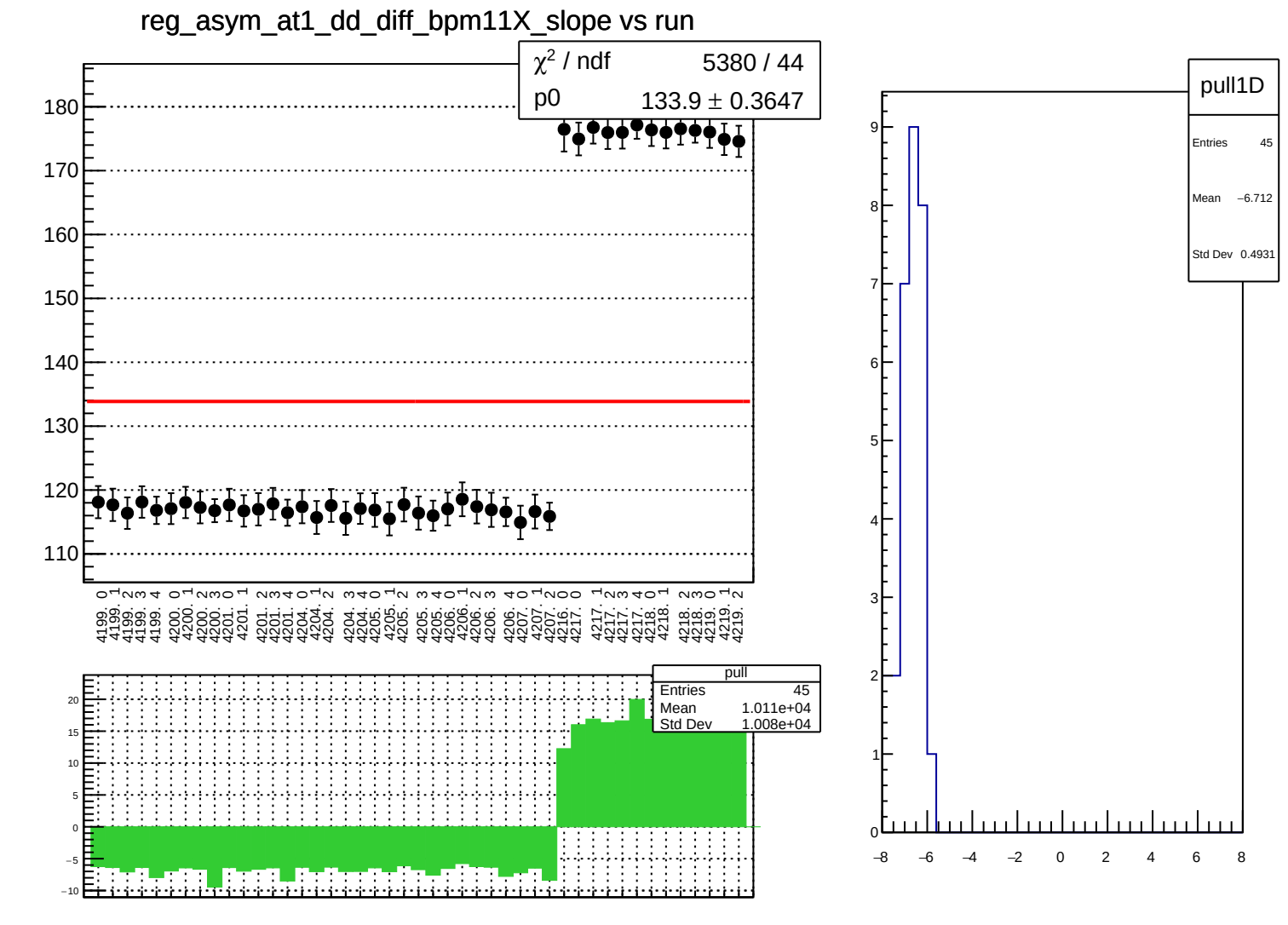

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 185.8 / 44
p0 11.34 ± 1.413
60
40
20
0
−20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 103.6
Std Dev 75.82
5
4
3
2
1
0
−1
−2

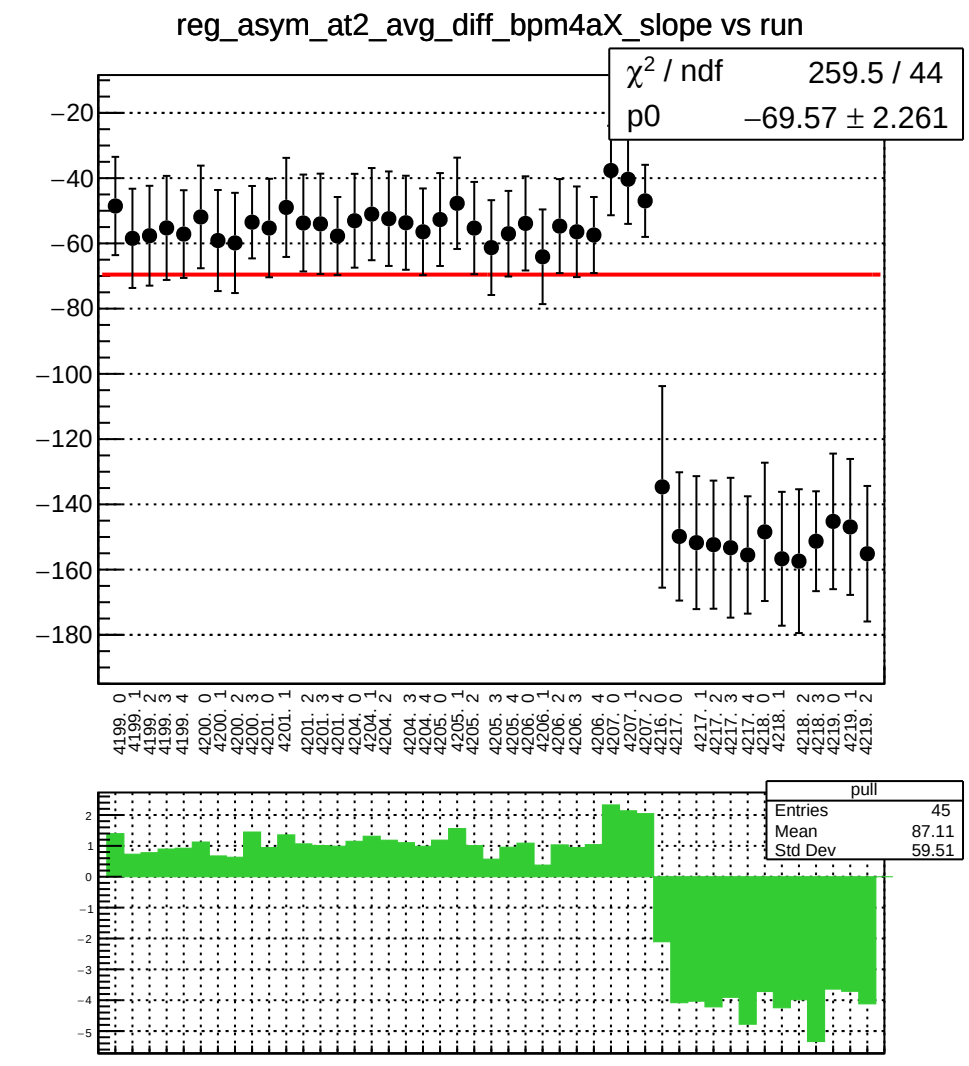

pull1D
Entries 45
Mean 0.2254
Std Dev 2.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

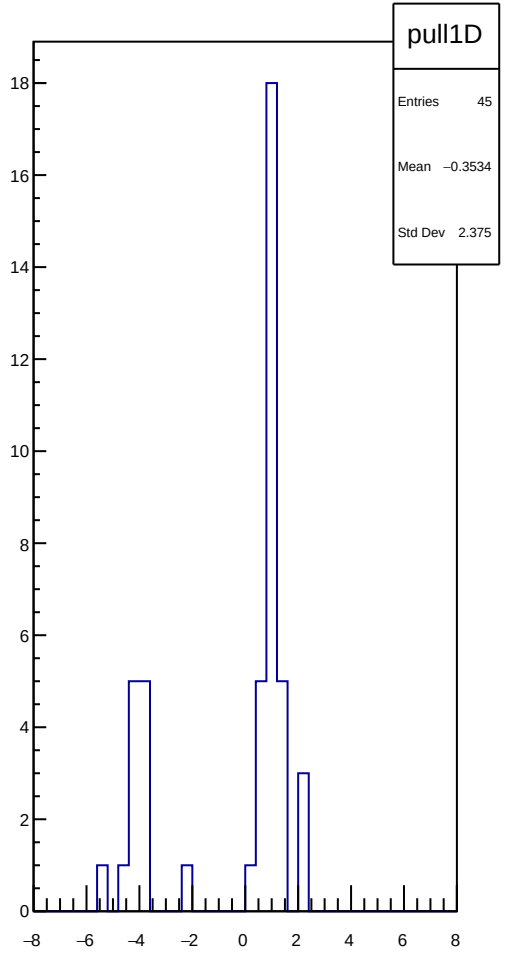

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.5 / 44
p0 −9.966 ± 1.18
10
0
−10
−20
−30
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 119.2
Std Dev 96.84
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02263
Std Dev 0.4826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

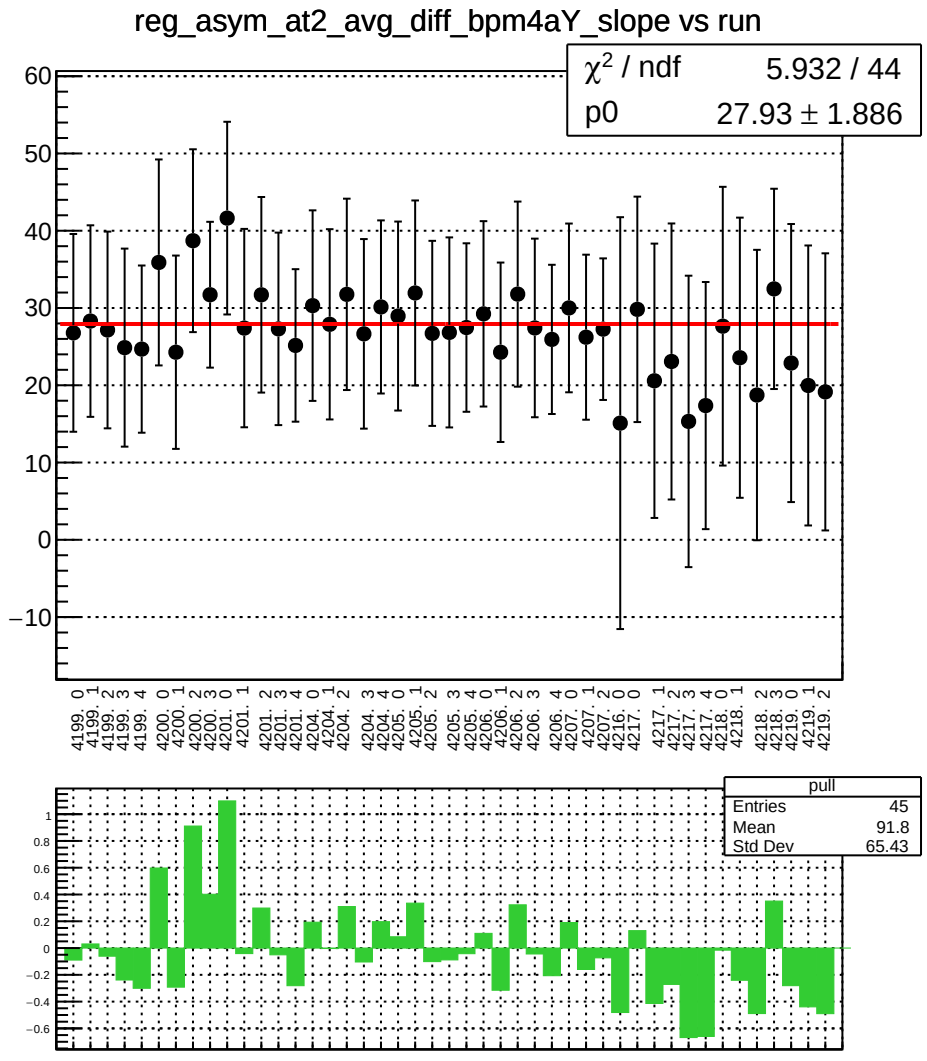

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 1483 / 44
p0 142.2 ± 0.2545
170
165
160
155
150
145
140
135
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 85.88
Std Dev 58.69
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 45
Mean −2.377
Std Dev 1.718
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

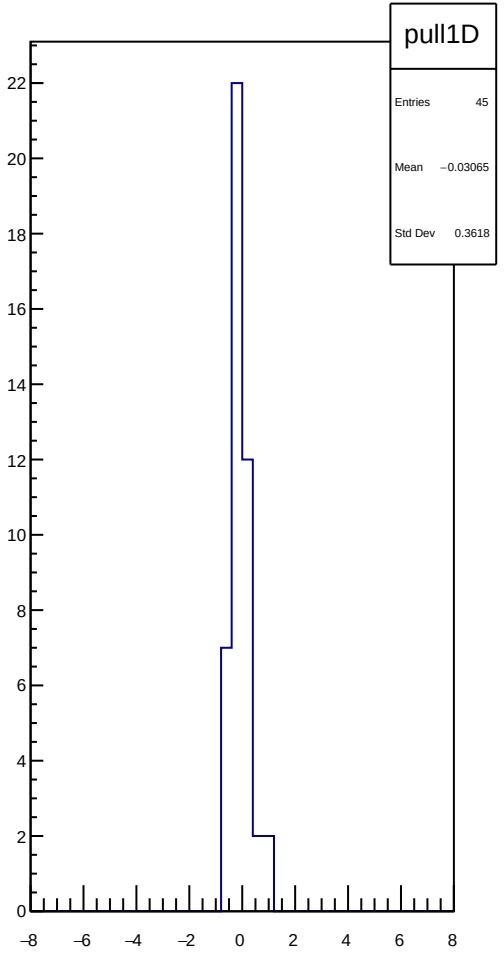

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.41 / 44
p0 −12.38 ± 1.971
pull
Entries 45
Mean 109
Std Dev 83.9
pull1D
Entries 45
Mean −0.06825
Std Dev 0.6863

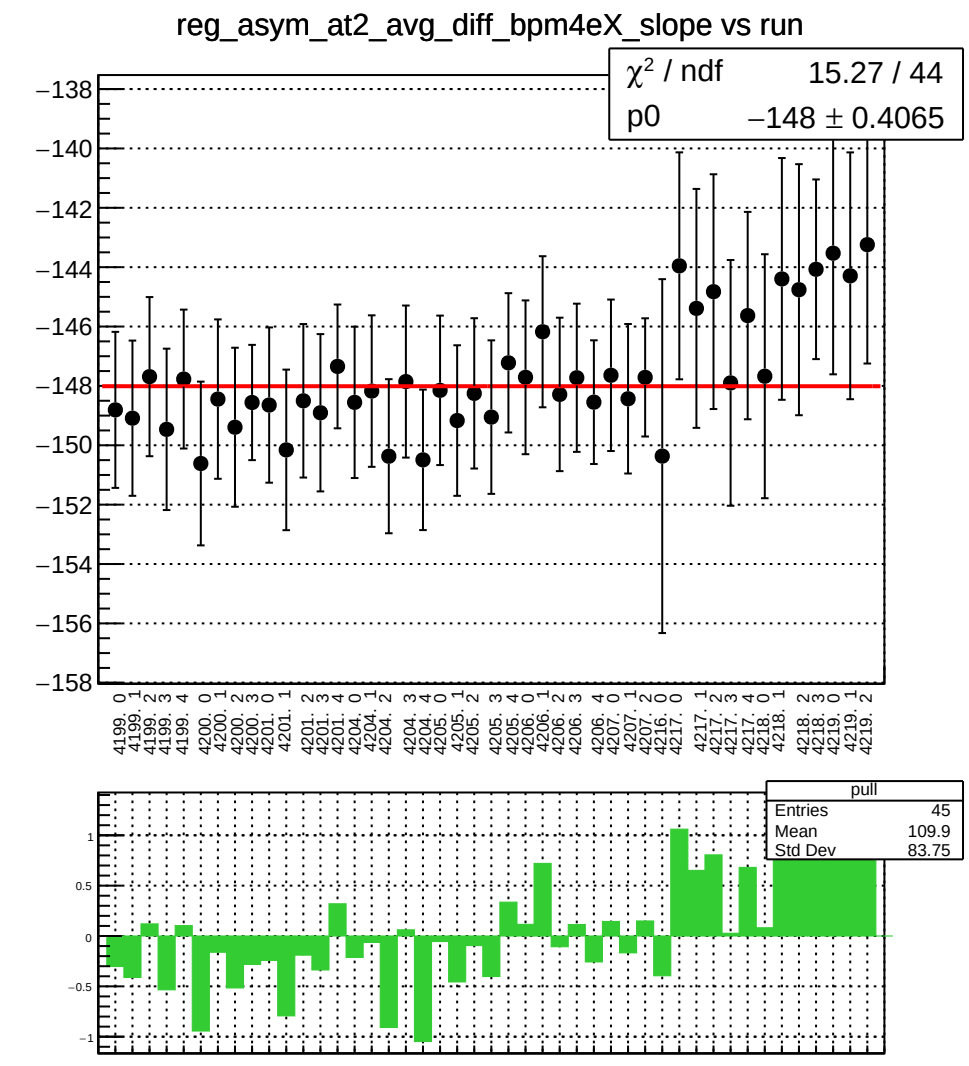

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 5380 / 44
p0 133.9 ± 0.3647
pull
Entries 45
Mean 1.011e+04
Std Dev 1.008e+04
pull1D
Entries 45
Mean −6.712
Std Dev 0.4931

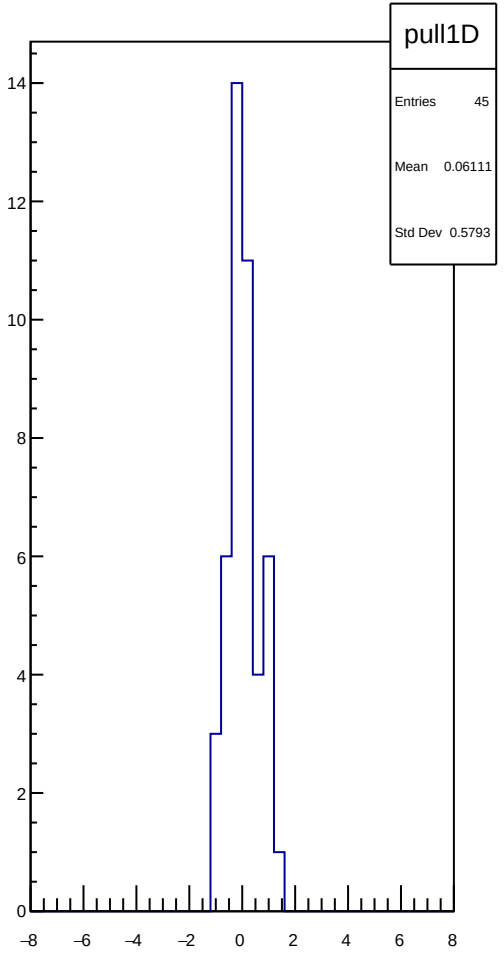

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 259.5 / 44
p0 −69.57 ± 2.261
pull
Entries 45
Mean 87.11
Std Dev 59.51

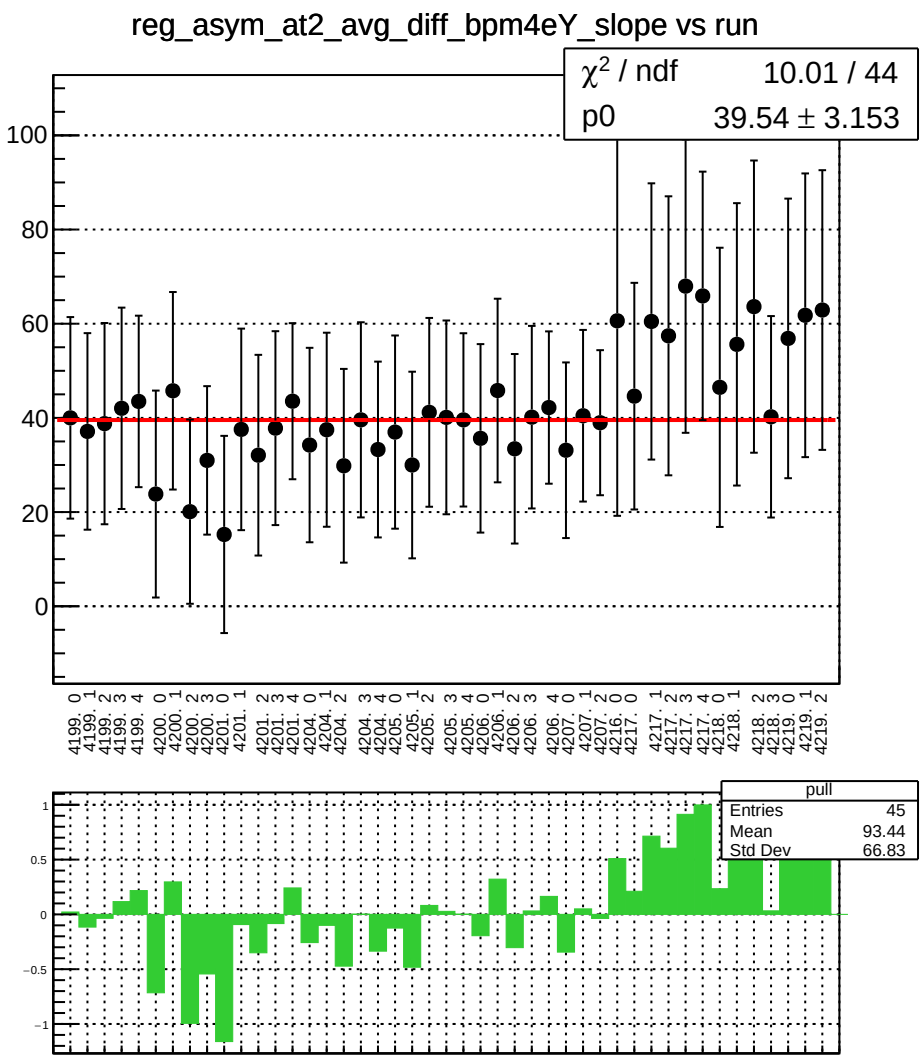

pull1D
Entries 45
Mean −0.3534
Std Dev 2.375

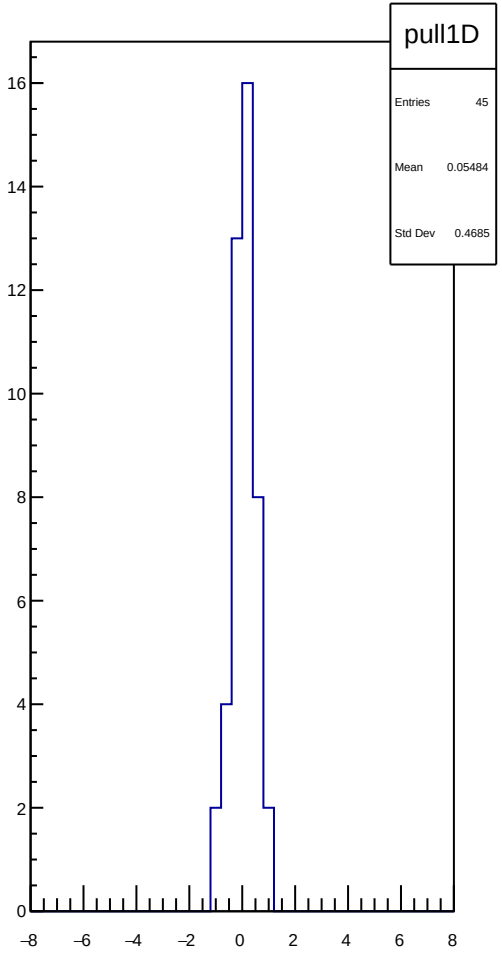

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.932 / 44
p0 27.93 ± 1.886
pull
Entries 45
Mean 91.8
Std Dev 65.43

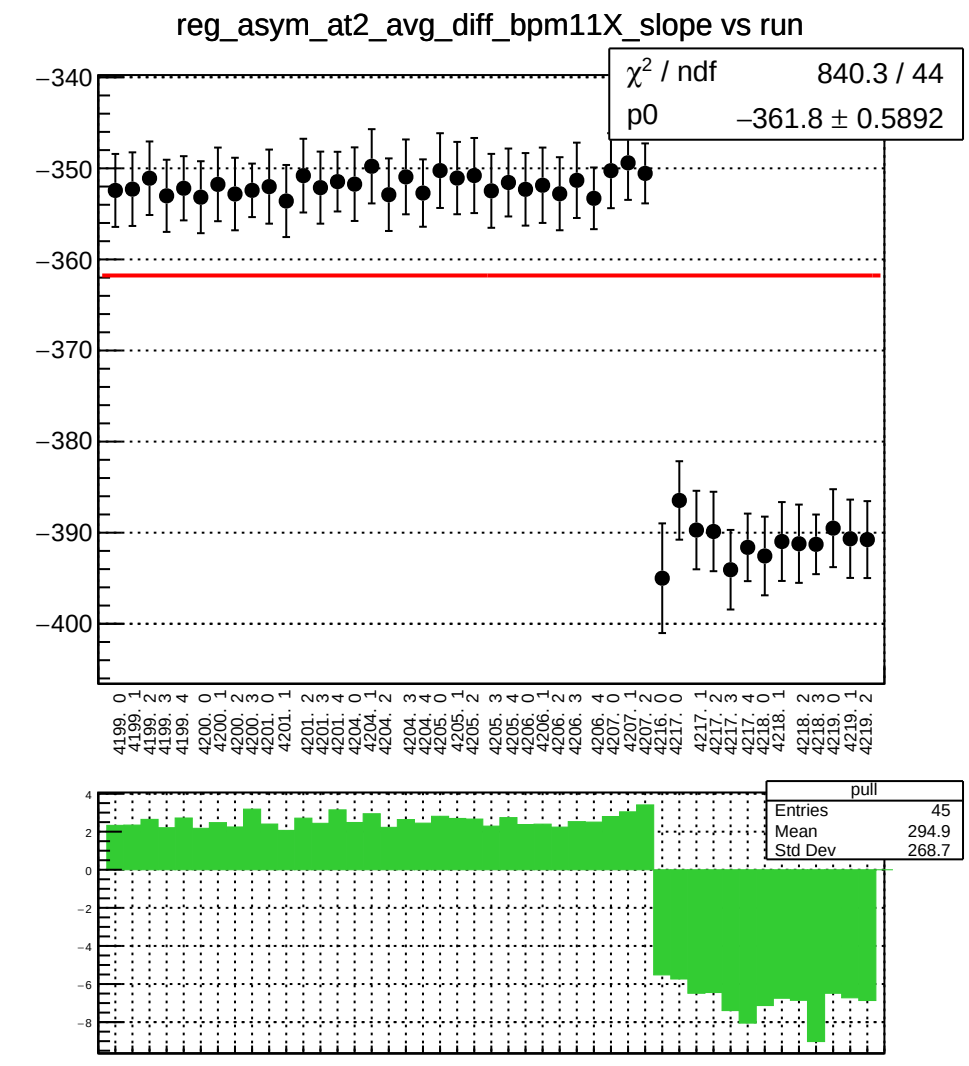

pull1D
Entries 45
Mean −0.03065
Std Dev 0.3618

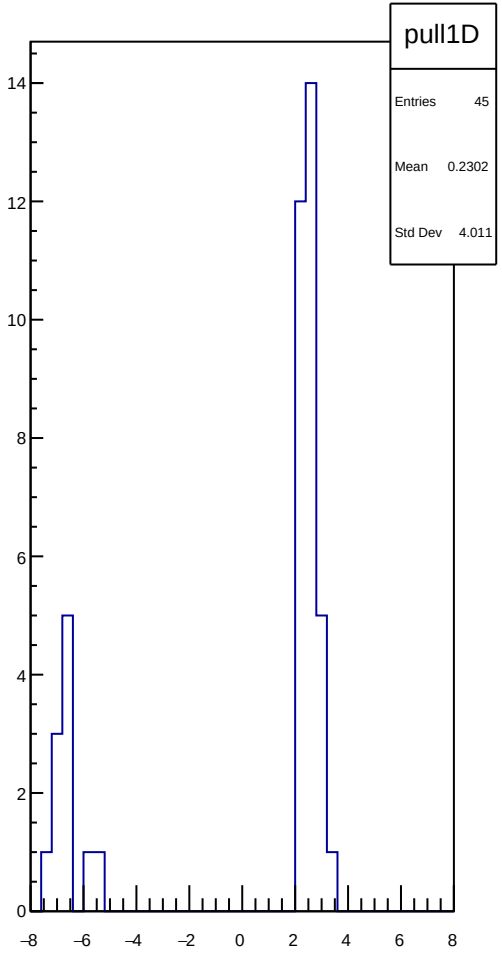

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.27 / 44
p0 −148 ± 0.4065
pull
Entries 45
Mean 109.9
Std Dev 83.75

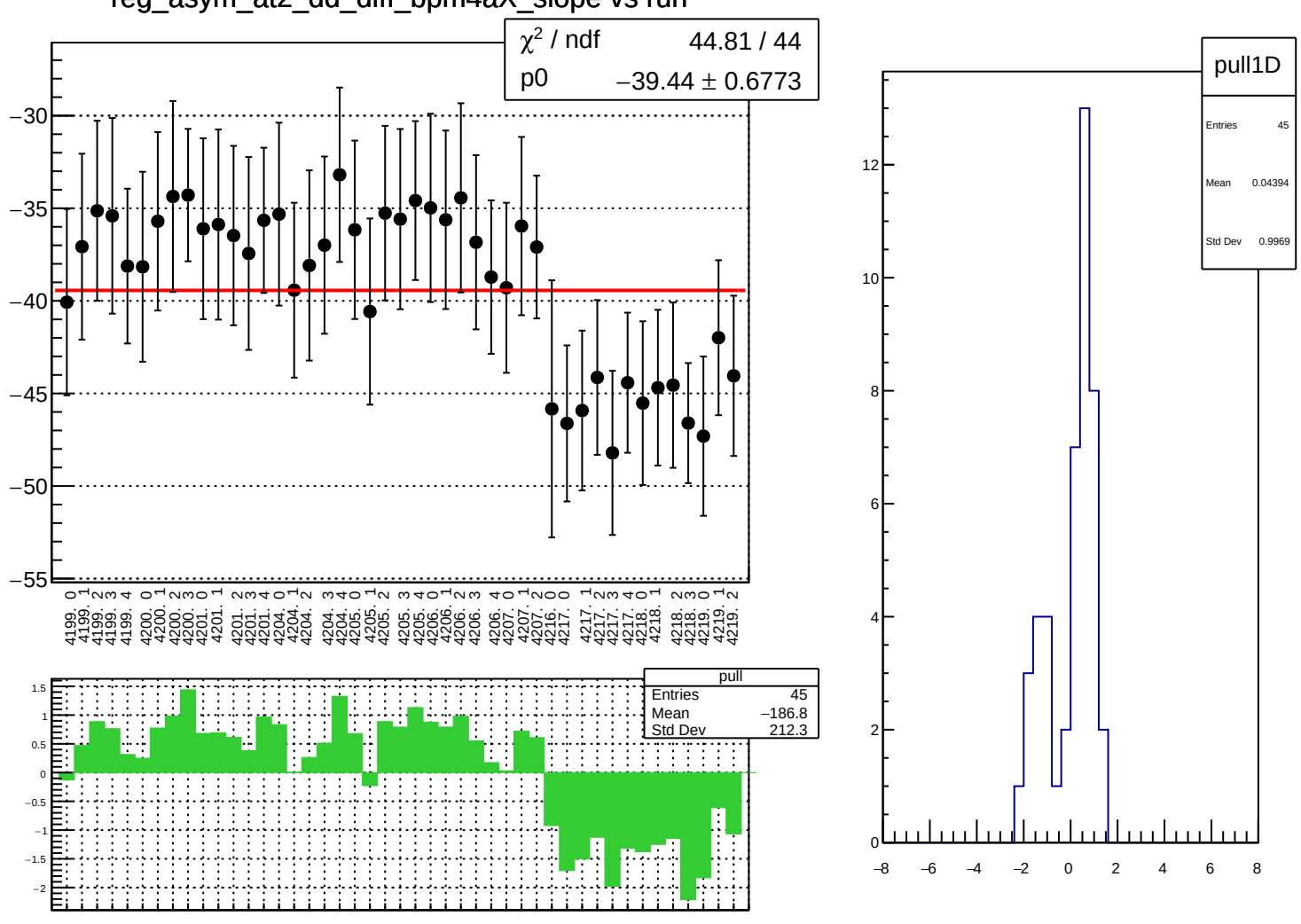

pull1D
Entries 45
Mean 0.06111
Std Dev 0.5793

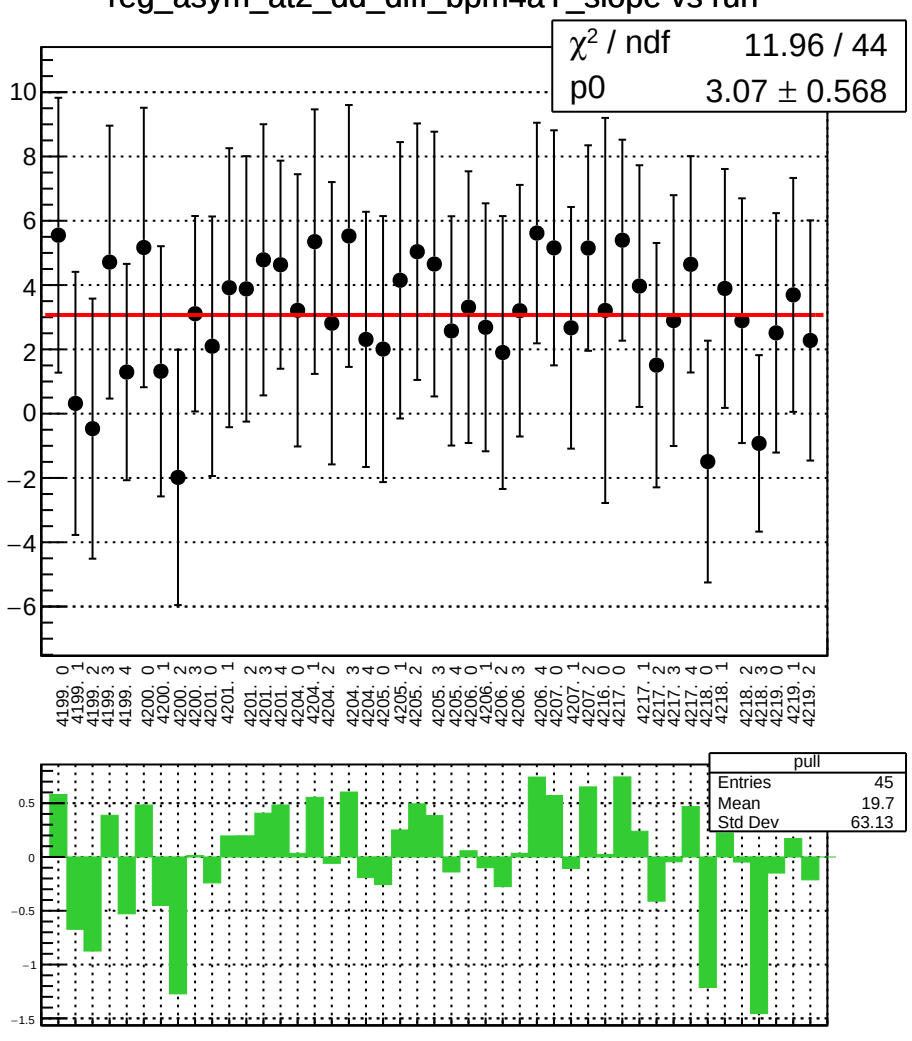

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.01 / 44
p0 39.54 ± 3.153
pull
Entries 45
Mean 93.44
Std Dev 66.83

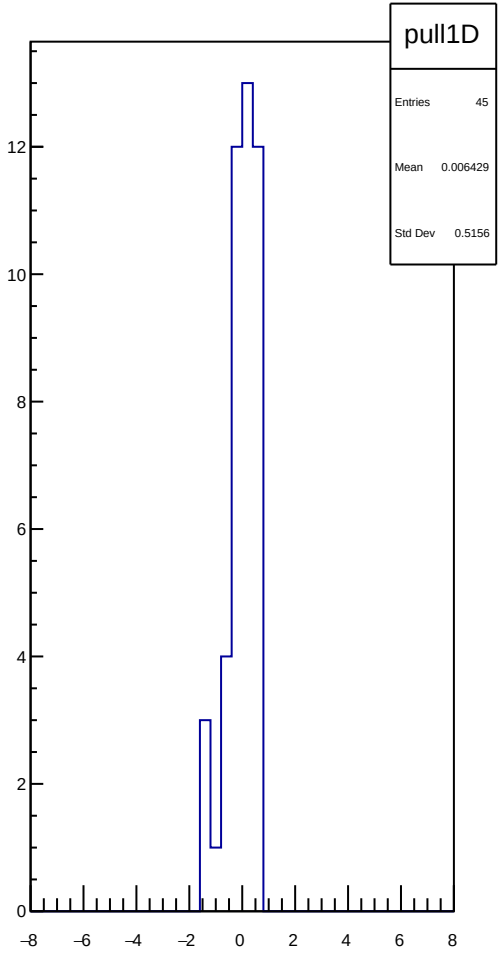

pull1D
Entries 45
Mean 0.05484
Std Dev 0.4685

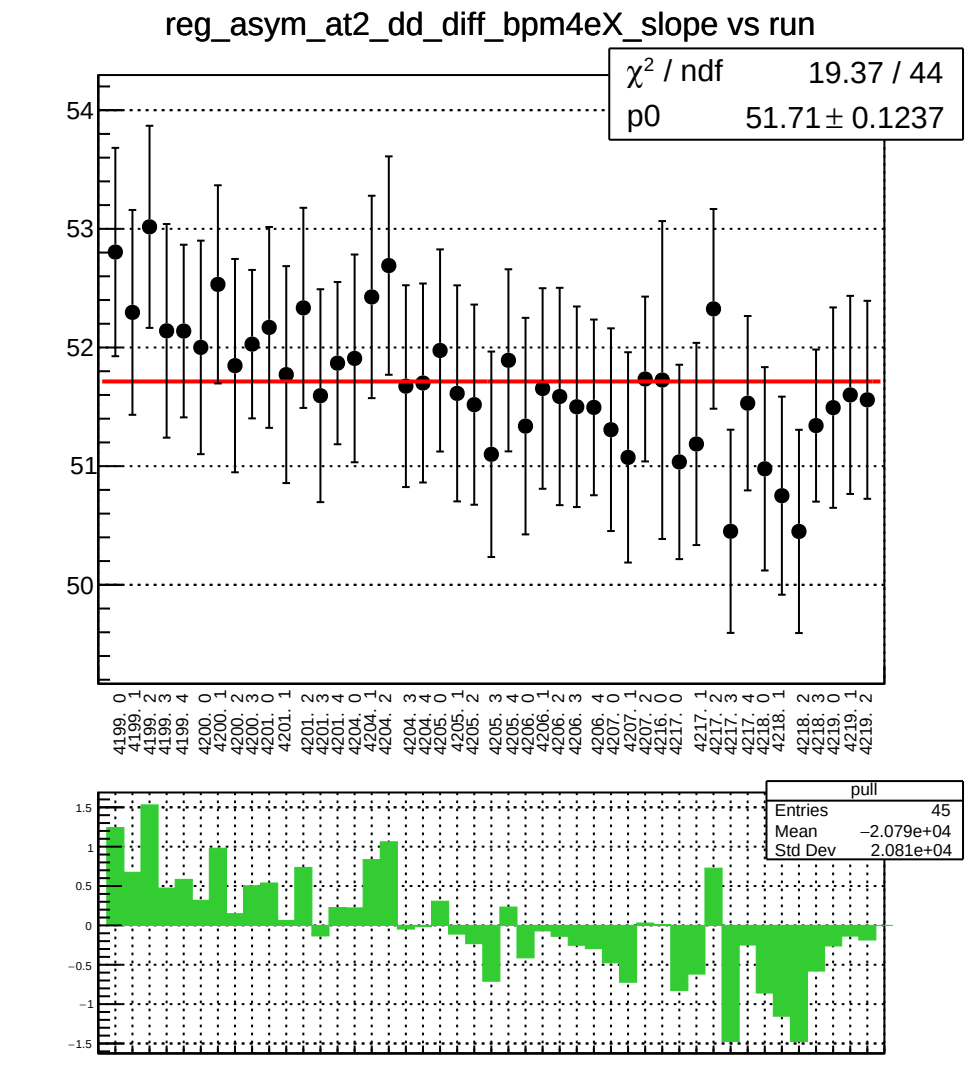

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 840.3 / 44
p0 −361.8 ± 0.5892
pull
Entries 45
Mean 294.9
Std Dev 268.7

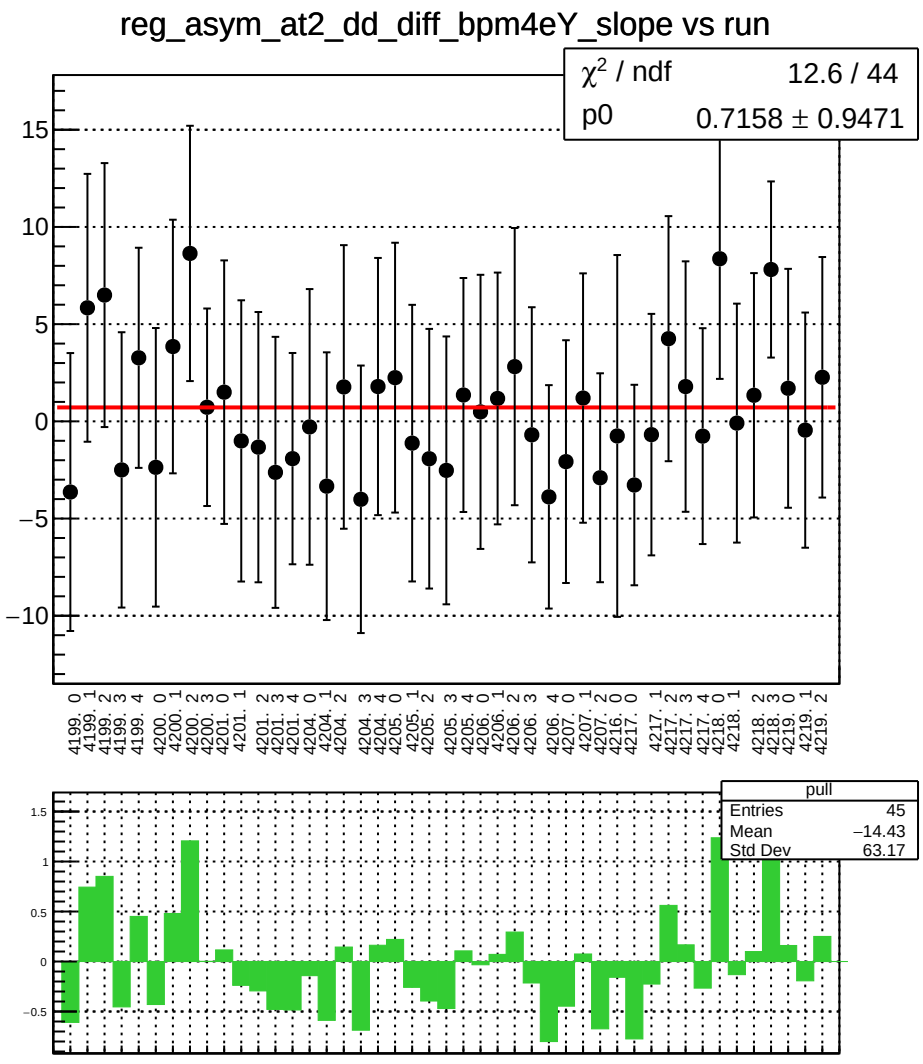

pull1D
Entries 45
Mean 0.2302
Std Dev 4.011

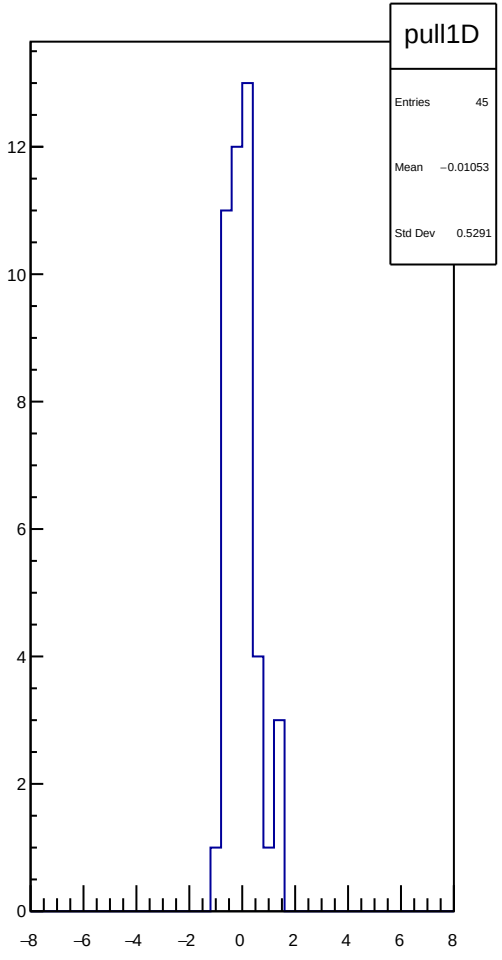

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 44.81 / 44
p0 −39.44 ± 0.6773
−30
−35
−40
−45
−50
−55
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −186.8
Std Dev 212.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.04394
Std Dev 0.9969
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

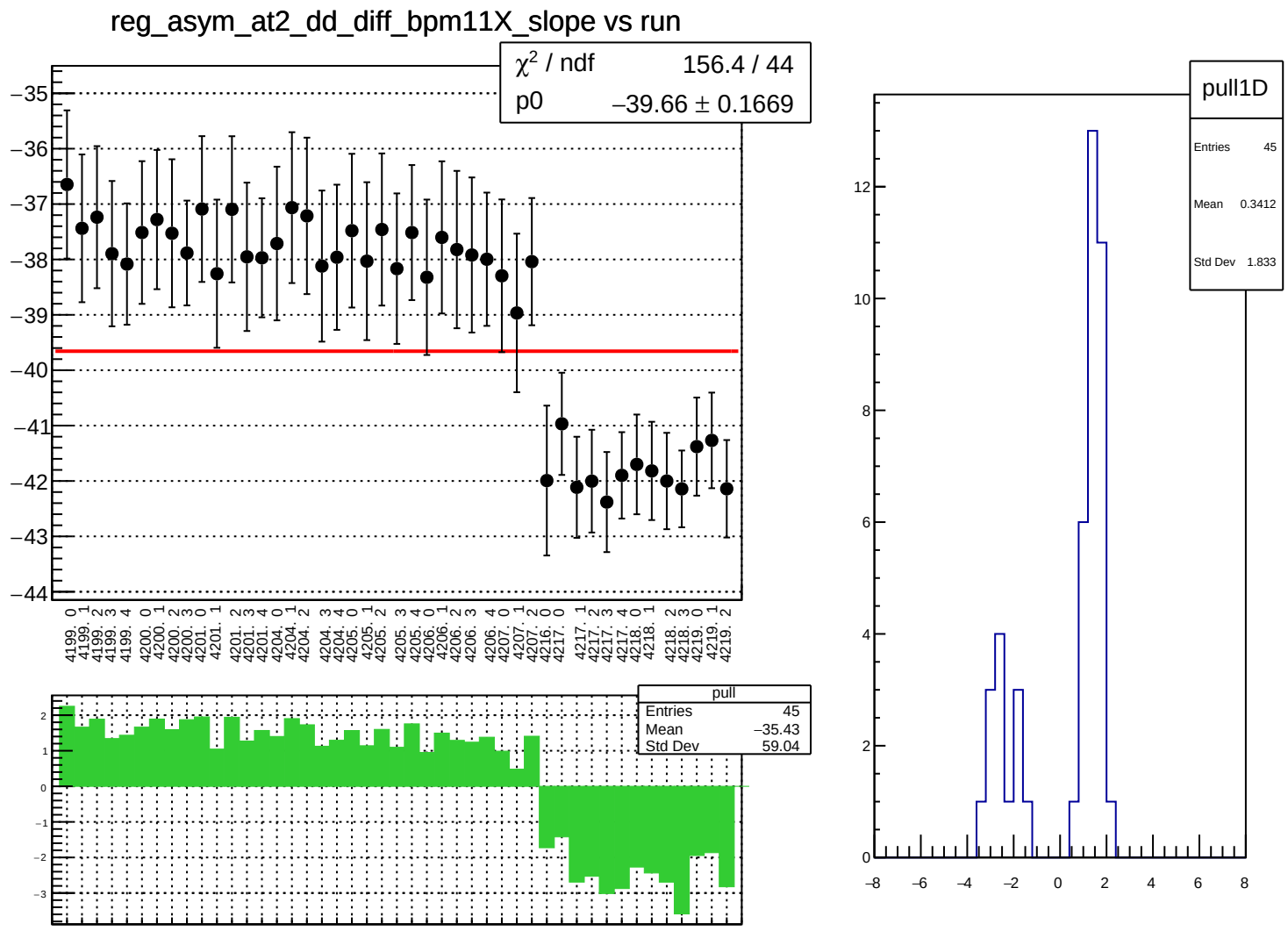

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.96 / 44
p0 3.07 ± 0.568
pull
Entries 45
Mean 19.7
Std Dev 63.13

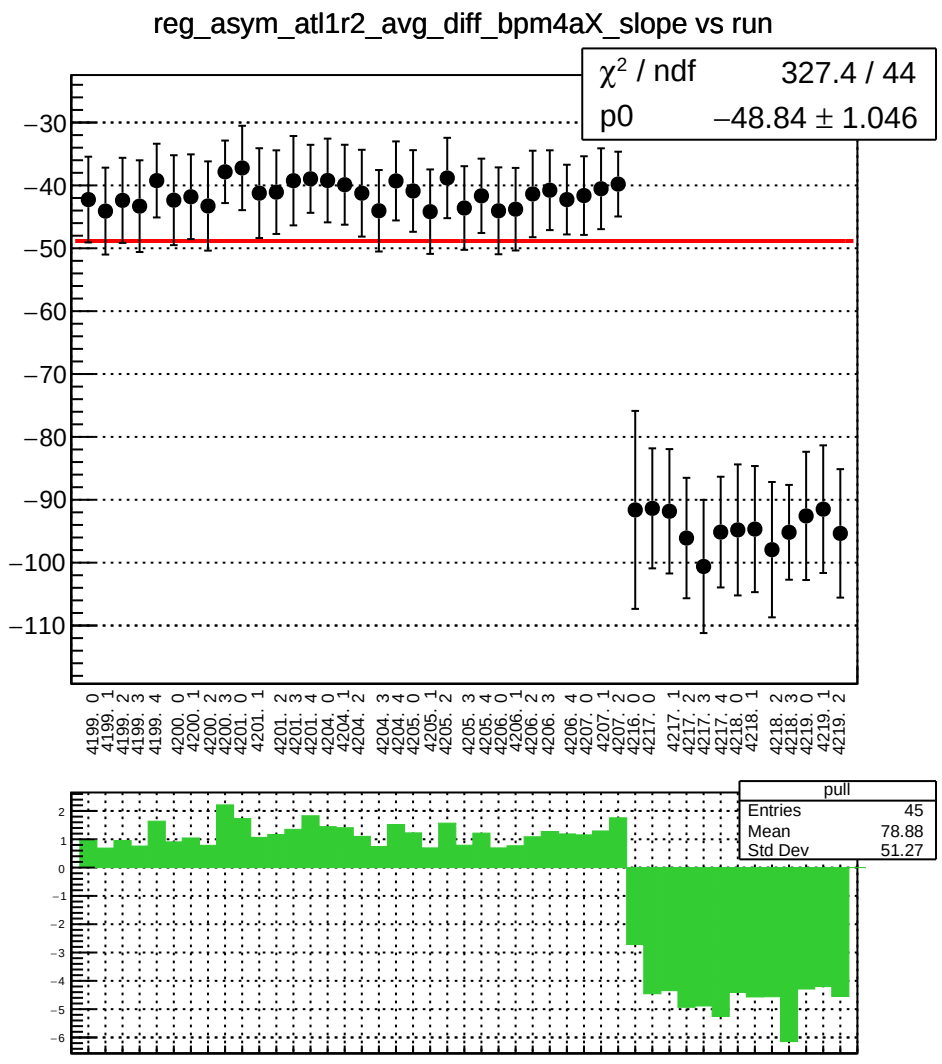

pull1D
Entries 45
Mean 0.006429
Std Dev 0.5156

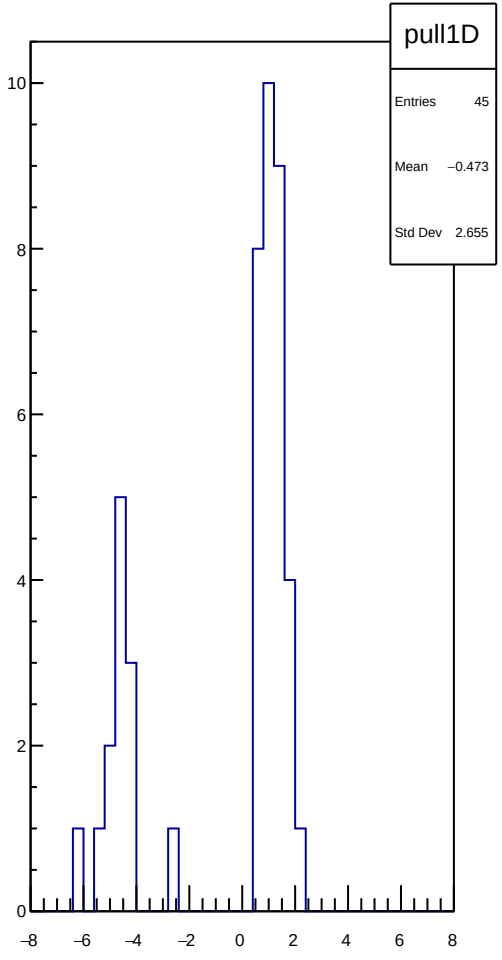

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.37 / 44
p0 51.71 ± 0.1237
54
53
52
51
50
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −2.079e+04
Std Dev 2.081e+04
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0002994
Std Dev 0.656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

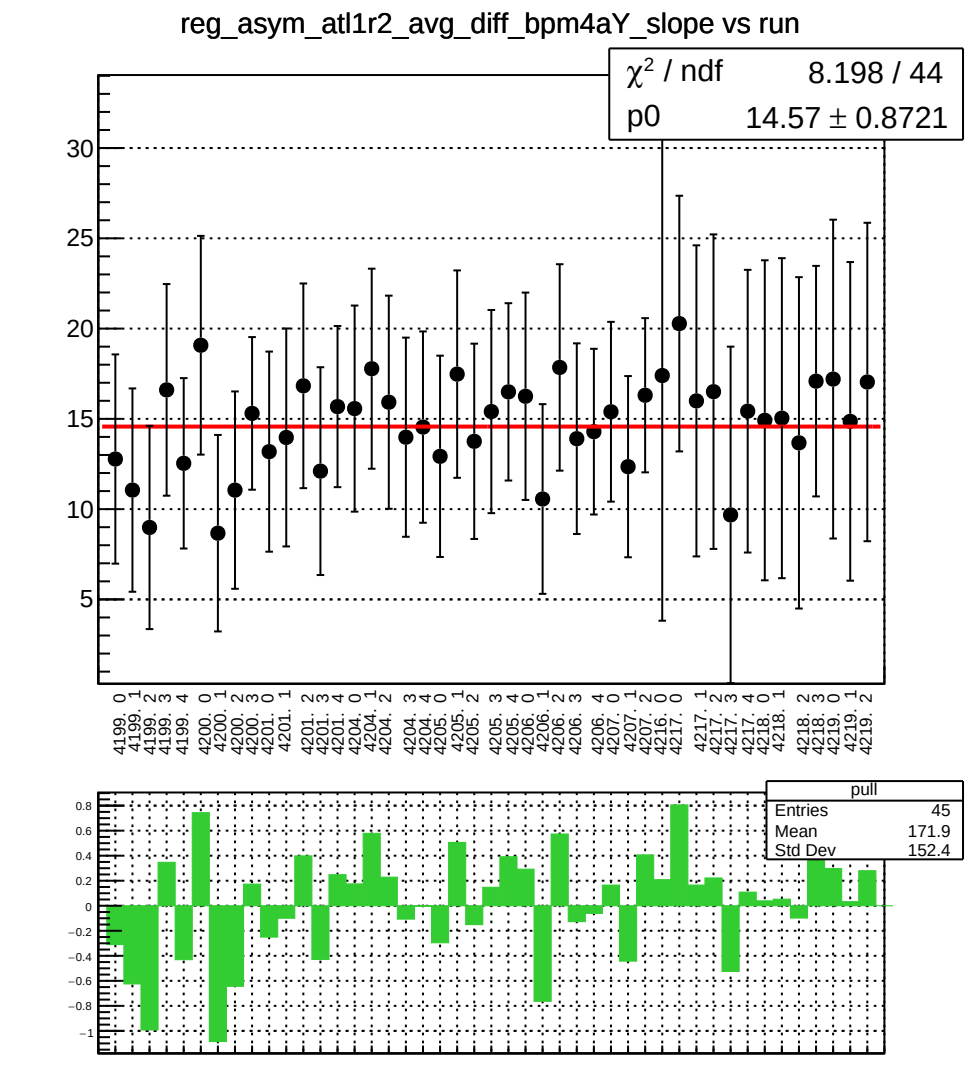

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.6 / 44
p0 0.7158 ± 0.9471
15
10
5
0
−5
−10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −14.43
Std Dev 63.17
1.5
1
0.5
0
−0.5

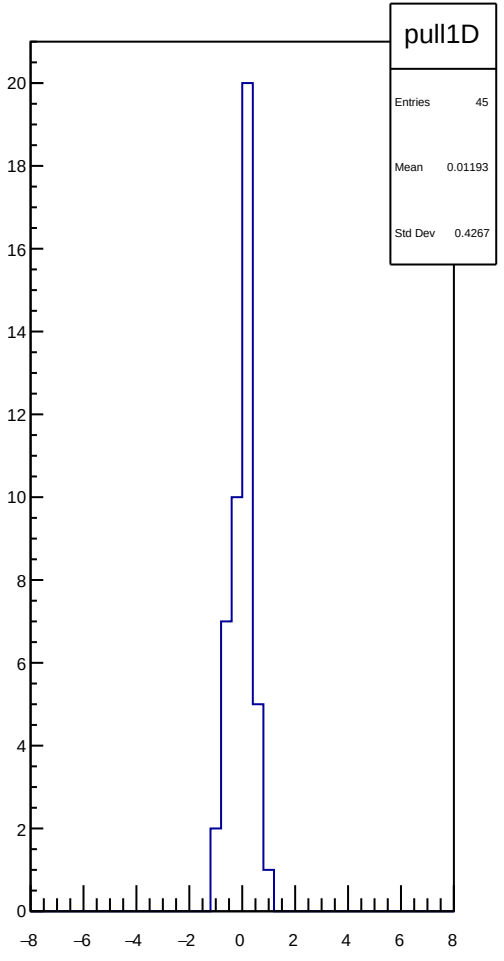

pull1D
Entries 45
Mean −0.01053
Std Dev 0.5291
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

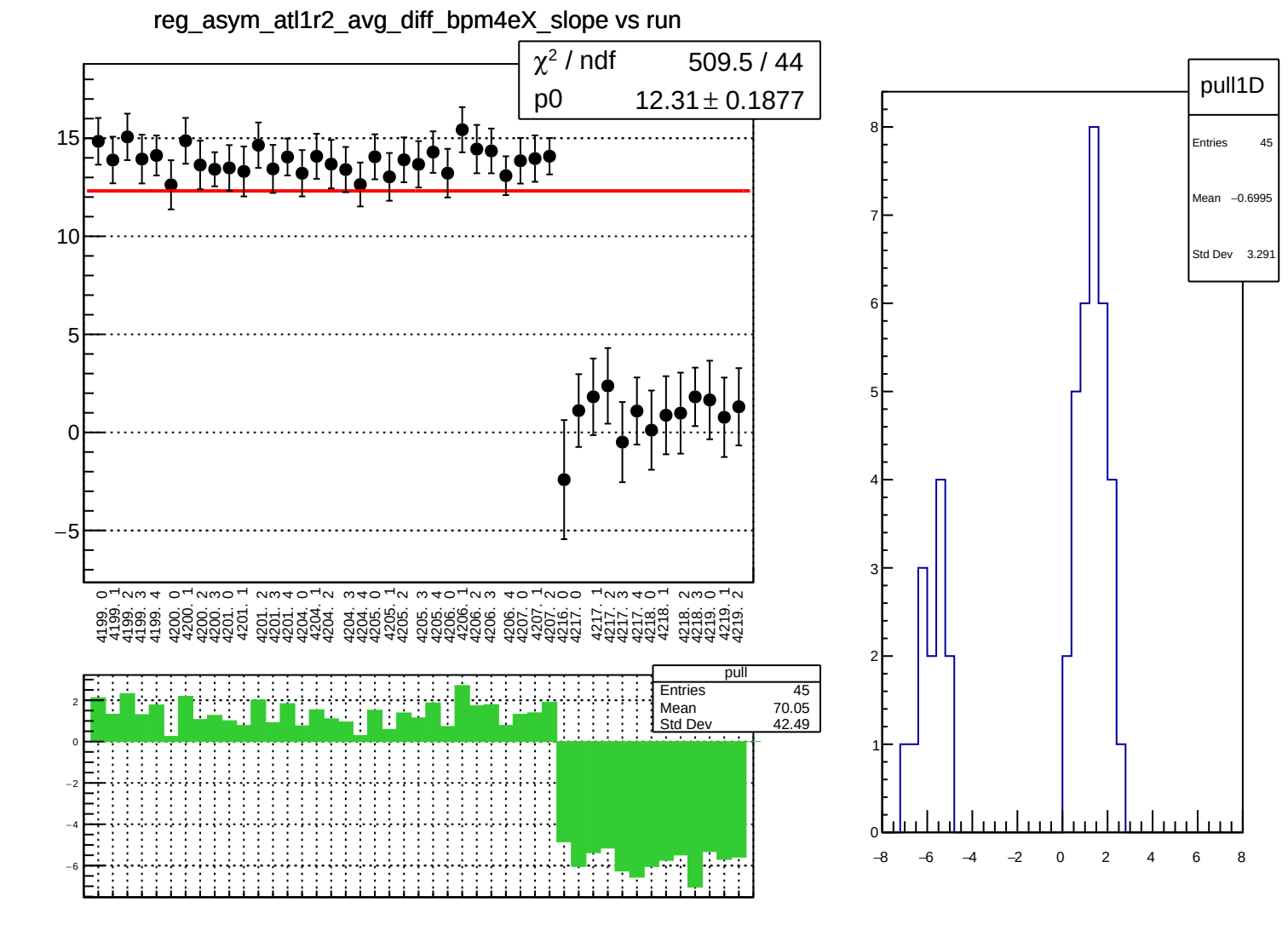

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 156.4 / 44
p0 −39.66 ± 0.1669
pull
Entries 45
Mean −35.43
Std Dev 59.04
pull1D
Entries 45
Mean 0.3412
Std Dev 1.833

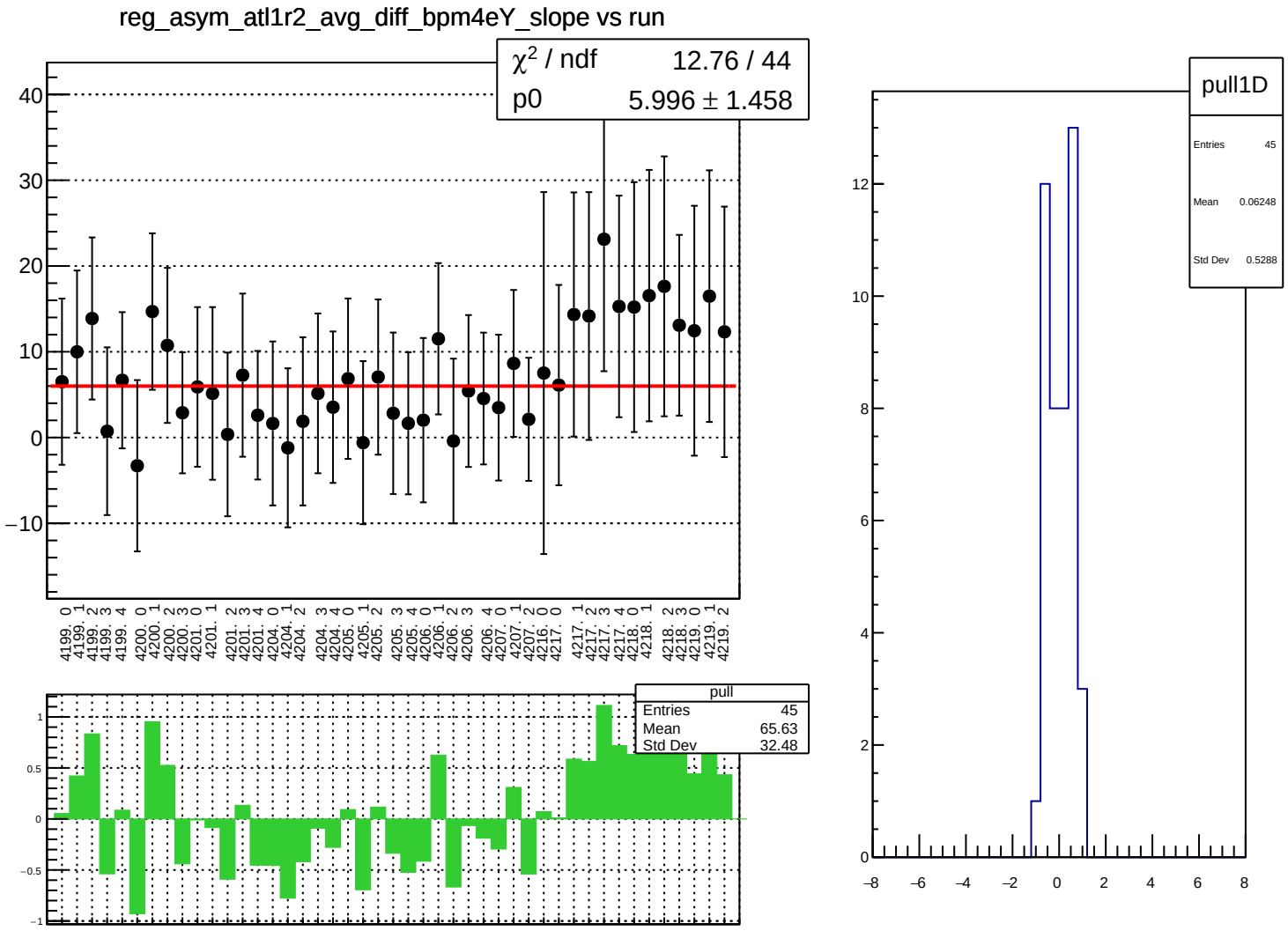

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 327.4 / 44
p0 −48.84 ± 1.046
pull
Entries 45
Mean 78.88
Std Dev 51.27

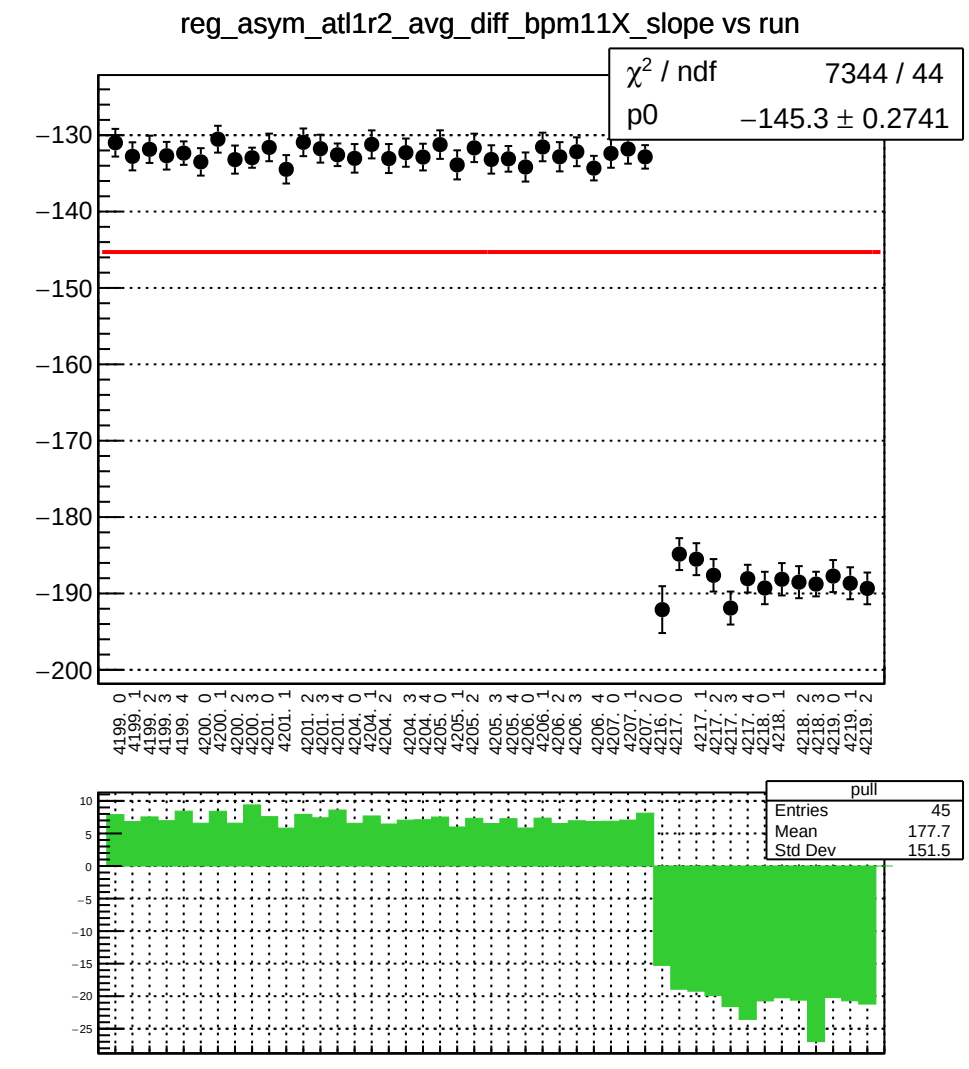

pull1D
Entries 45
Mean −0.473
Std Dev 2.655

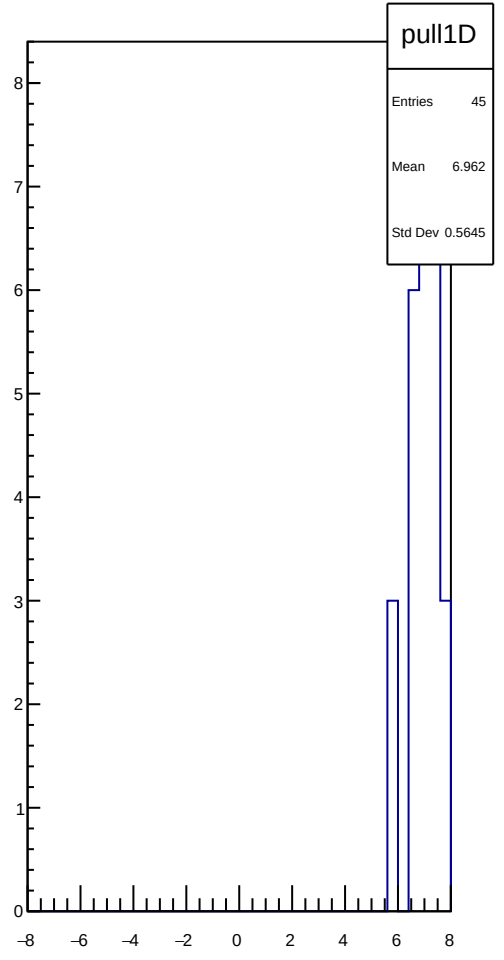

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.198 / 44
p0 14.57 ± 0.8721
pull
Entries 45
Mean 171.9
Std Dev 152.4

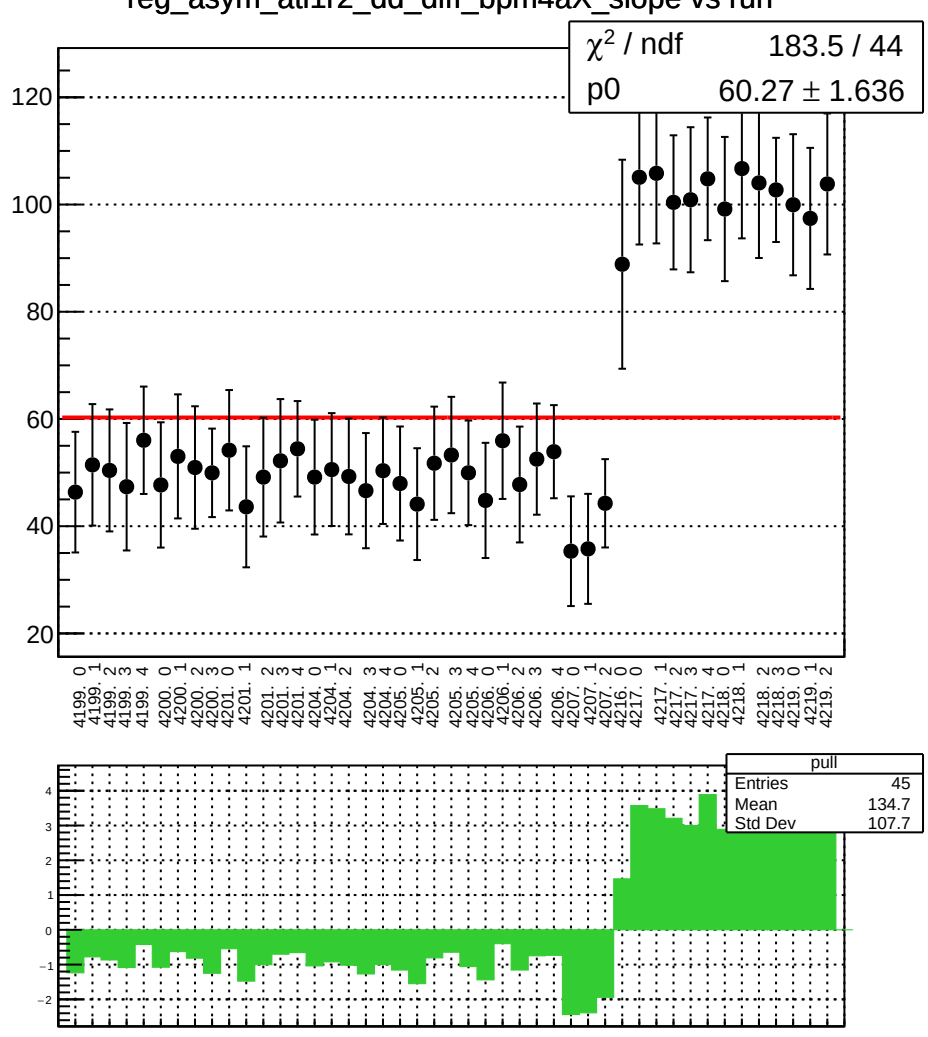

pull1D
Entries 45
Mean 0.01193
Std Dev 0.4267

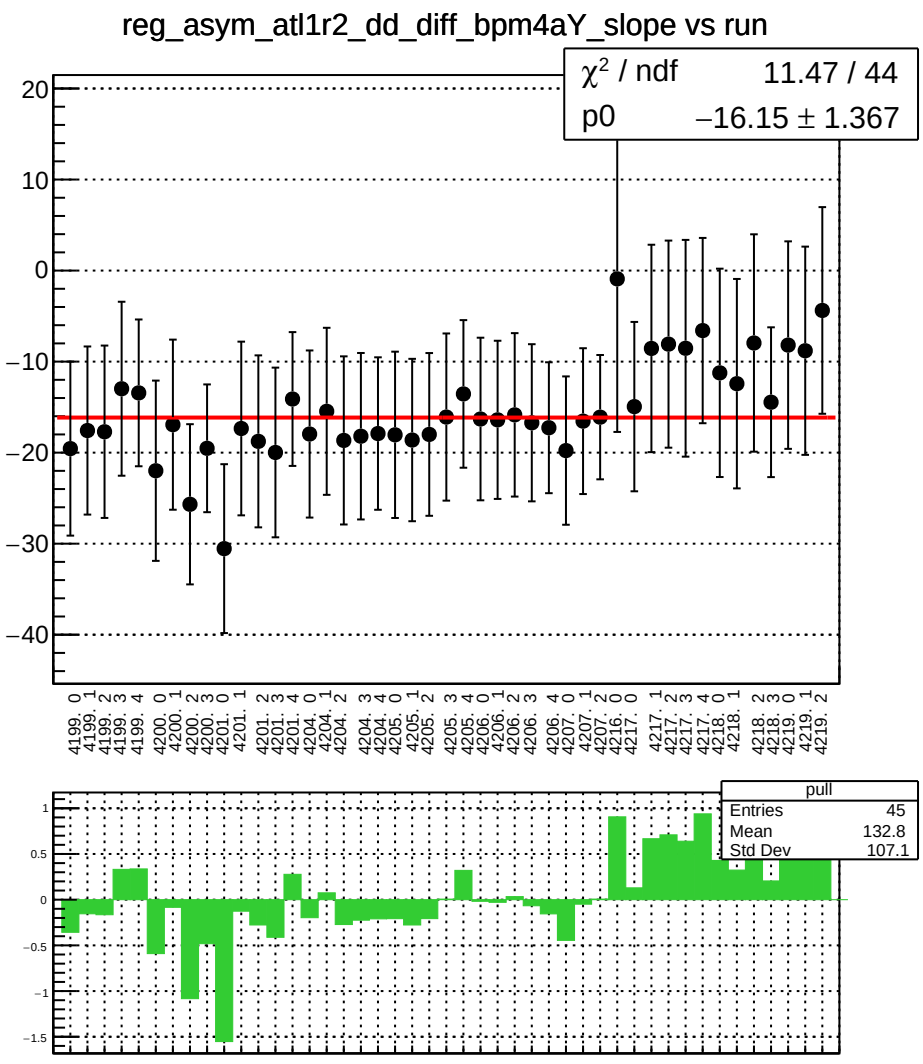

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 509.5 / 44
p0 12.31 ± 0.1877
15
10
5
0
−5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 70.05
Std Dev 42.49
2
0
−2
−4
−6
pull1D
Entries 45
Mean −0.6995
Std Dev 3.291
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

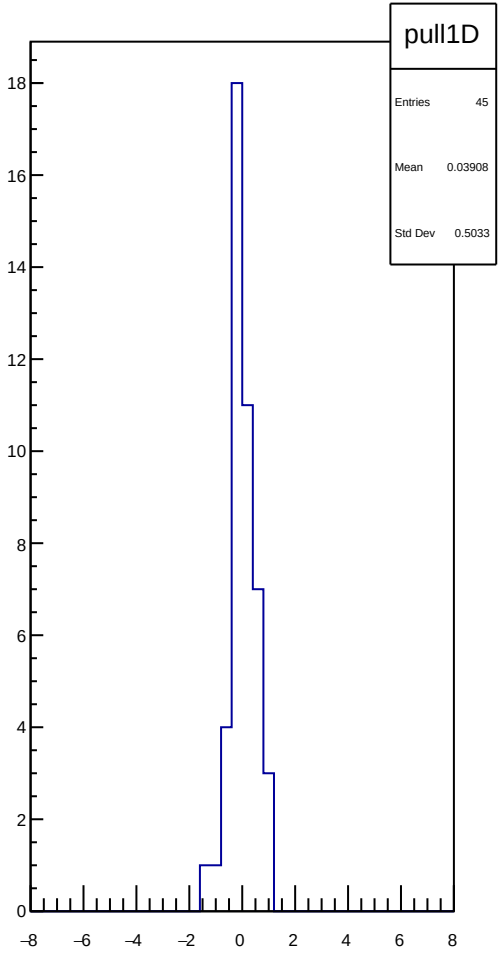

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.76 / 44
p0 5.996 ± 1.458
pull
Entries 45
Mean 65.63
Std Dev 32.48
pull1D
Entries 45
Mean 0.06248
Std Dev 0.5288

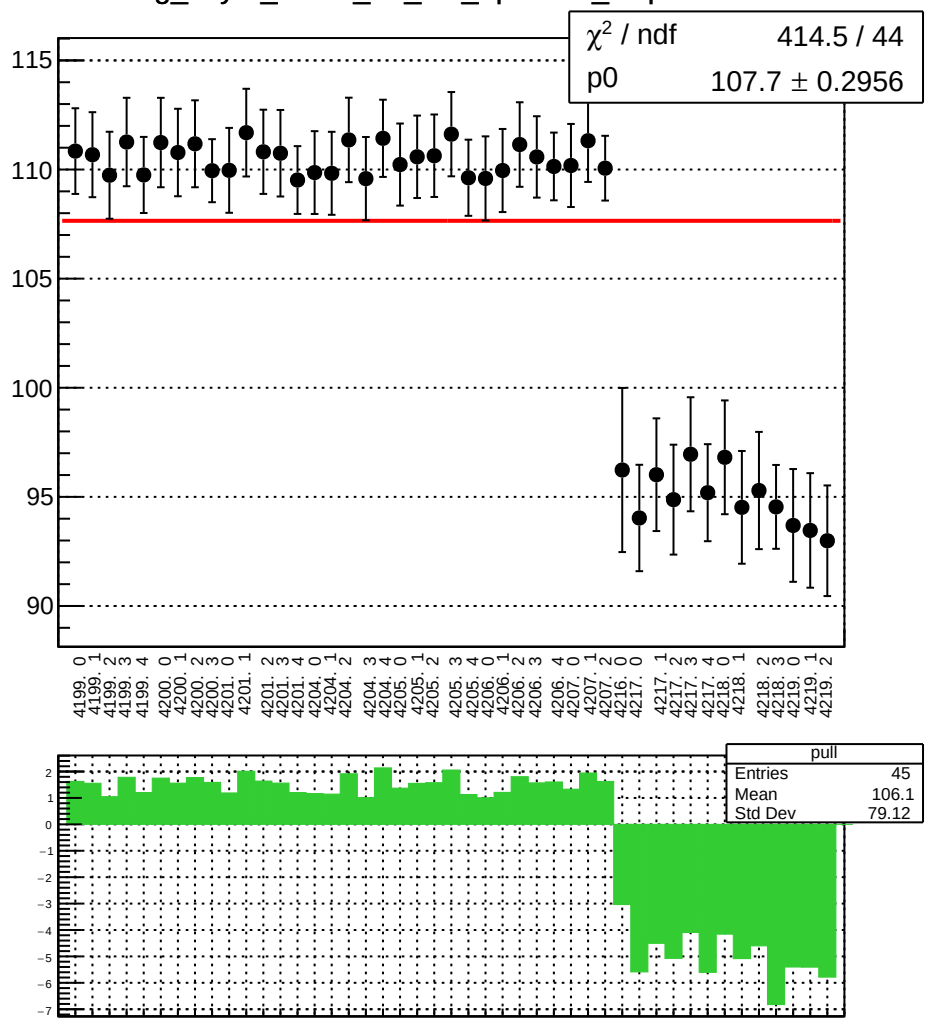

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 7344 / 44
p0 −145.3 ± 0.2741
pull
Entries 45
Mean 177.7
Std Dev 151.5

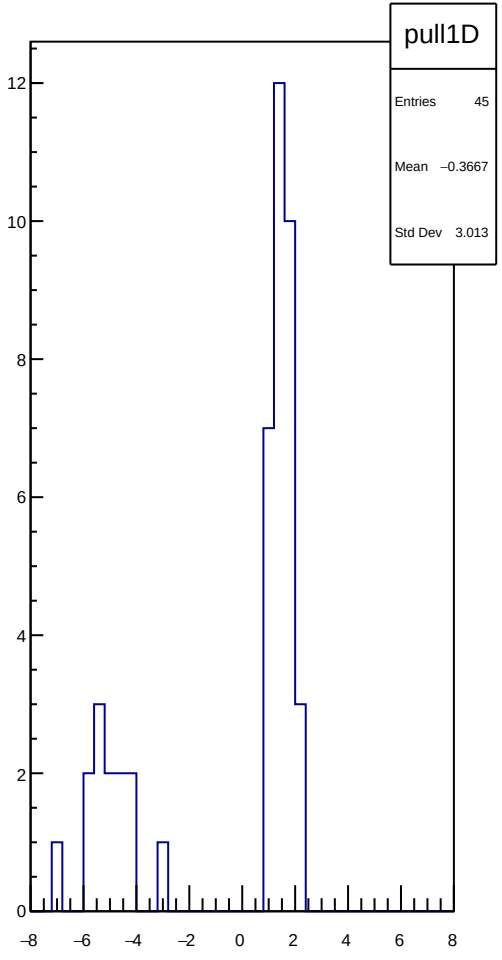

pull1D
Entries 45
Mean 6.962
Std Dev 0.5645

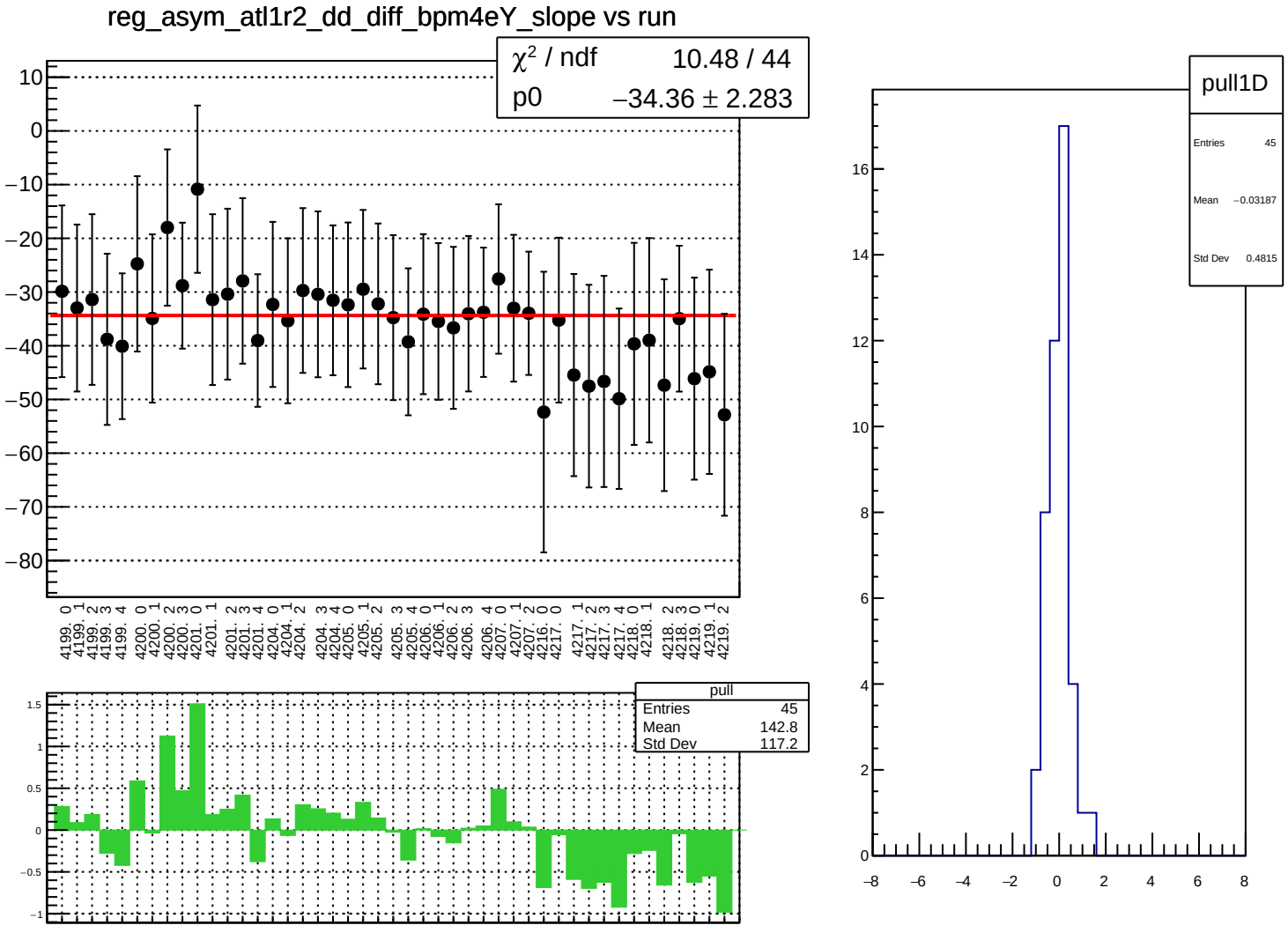

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 183.5 / 44
p0 60.27 ± 1.636
120
100
80
60
40
20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 134.7
Std Dev 107.7
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.1662
Std Dev 2.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

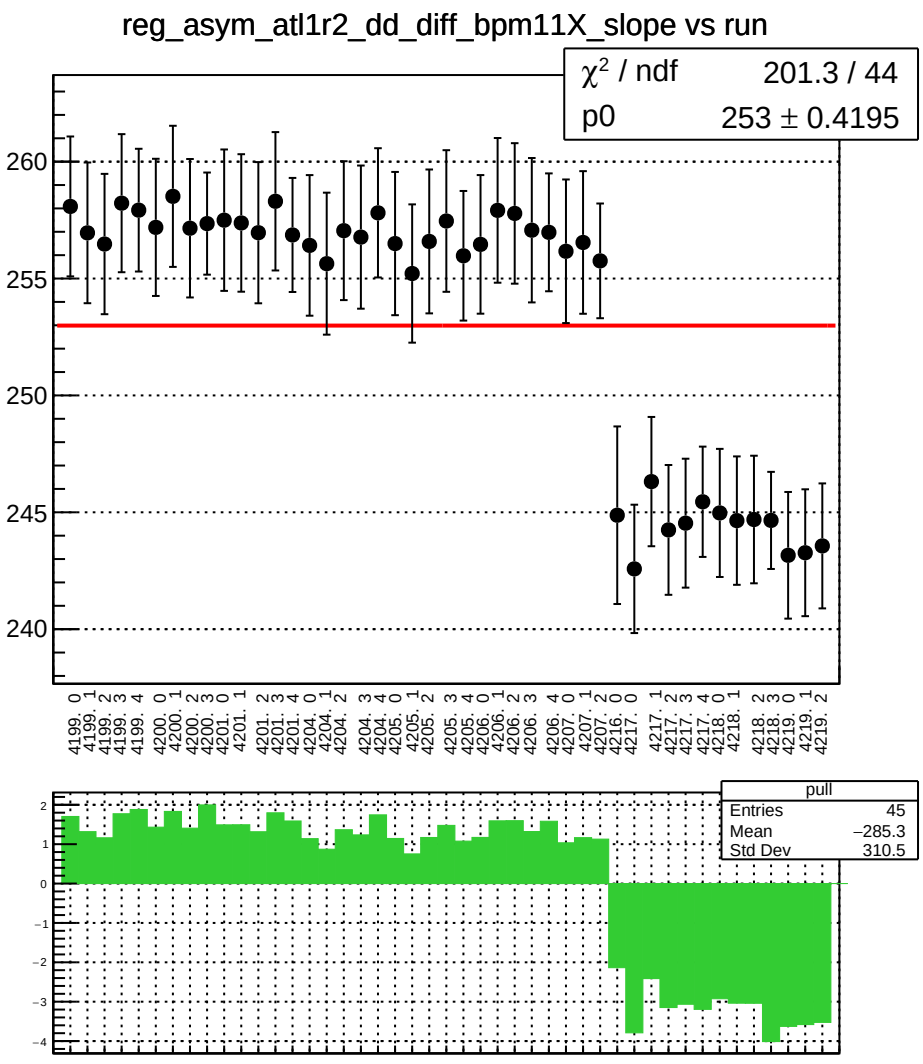

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.47 / 44
p0 −16.15 ± 1.367
pull
Entries 45
Mean 132.8
Std Dev 107.1

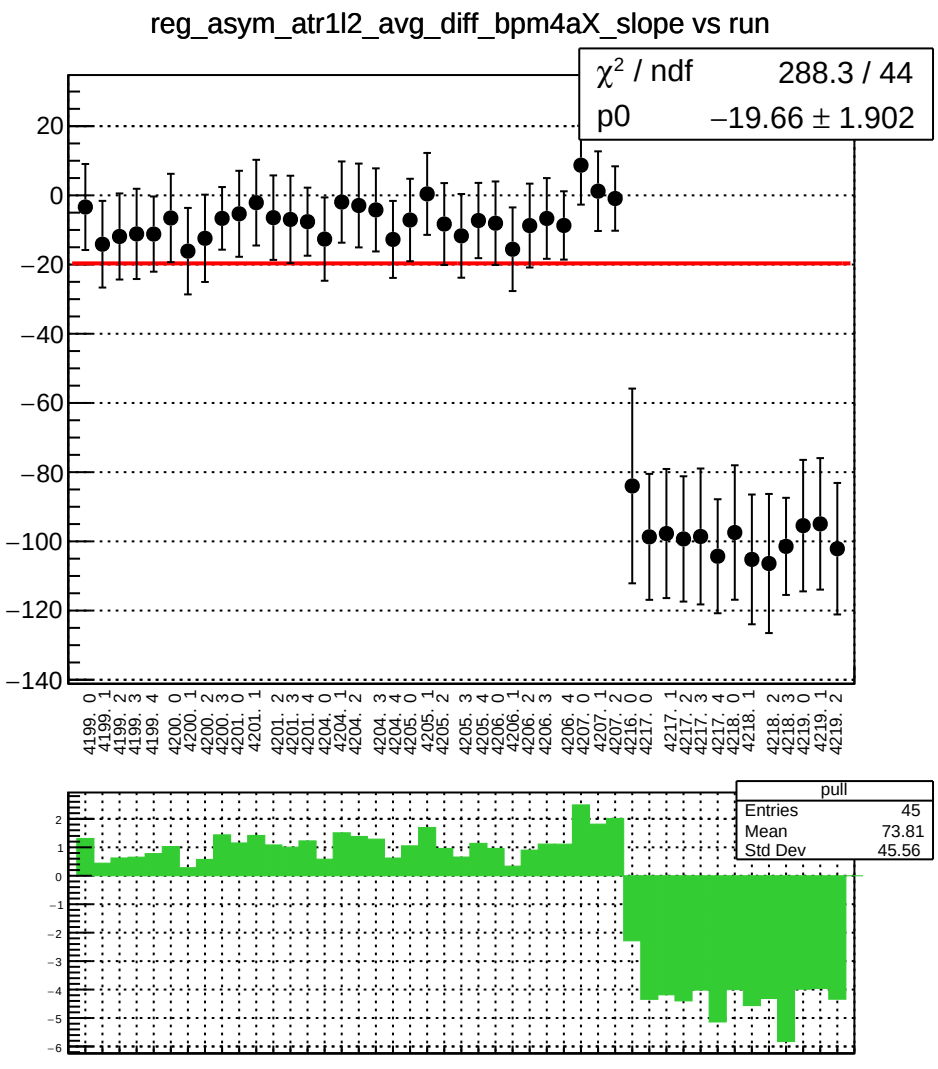

pull1D
Entries 45
Mean 0.03908
Std Dev 0.5033

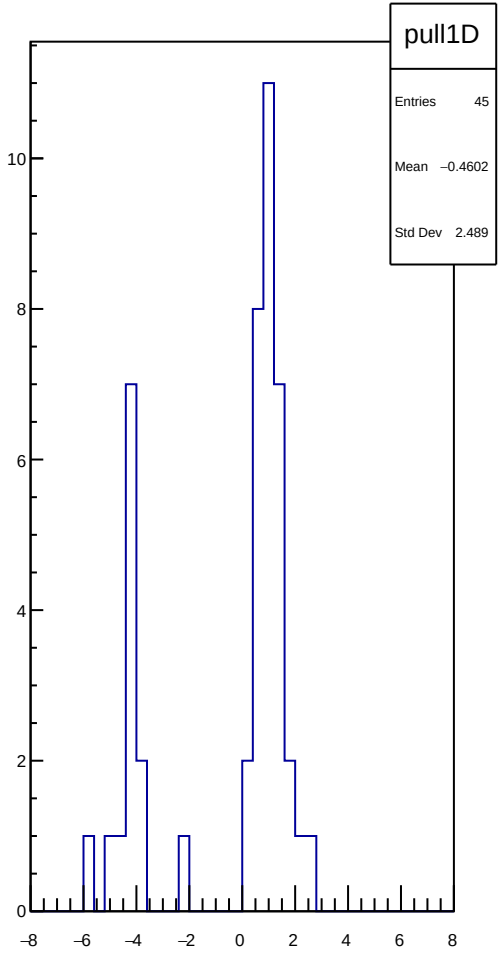

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 414.5 / 44
p0 107.7 ± 0.2956
pull
Entries 45
Mean 106.1
Std Dev 79.12

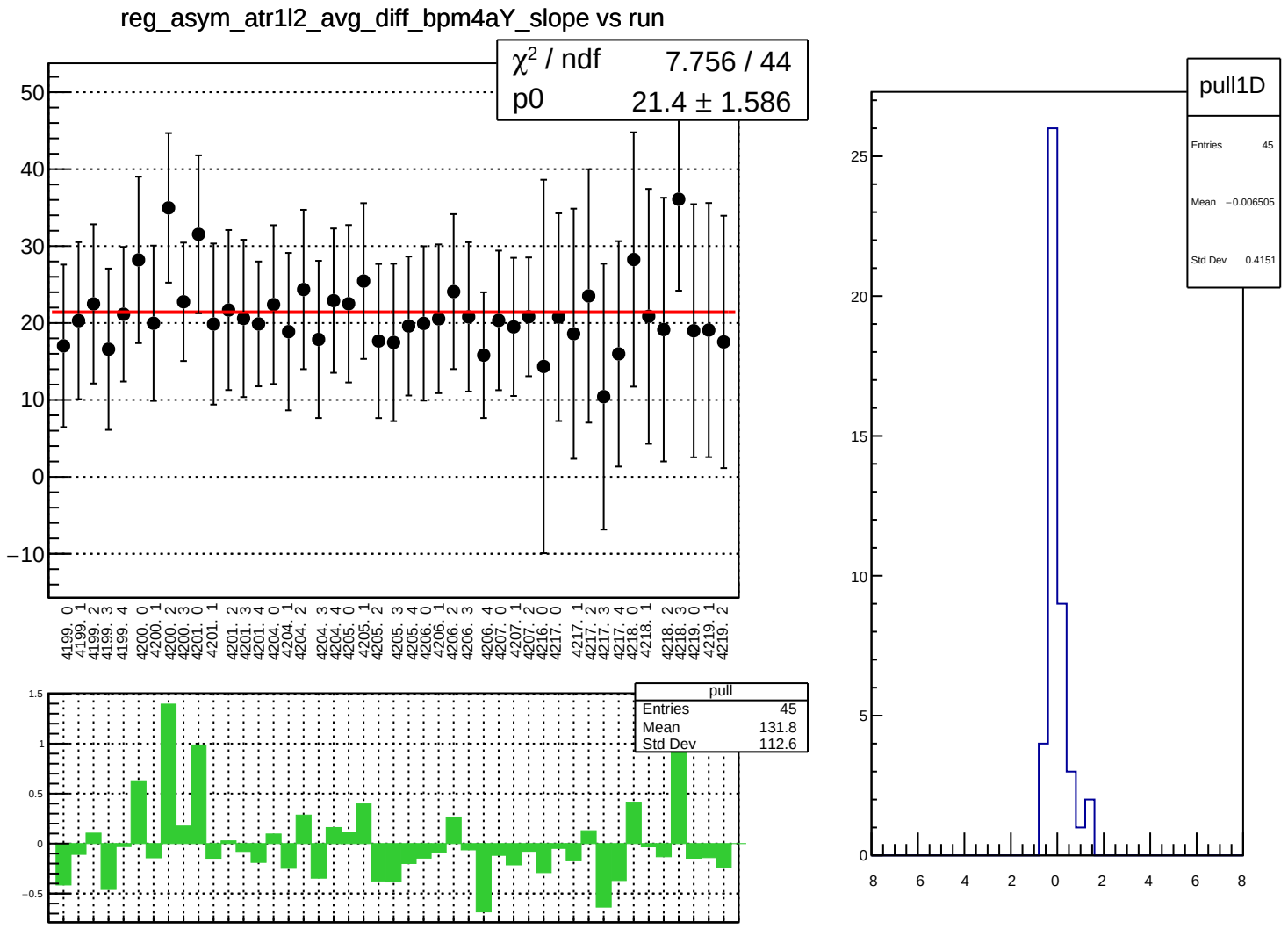

pull1D
Entries 45
Mean −0.3667
Std Dev 3.013

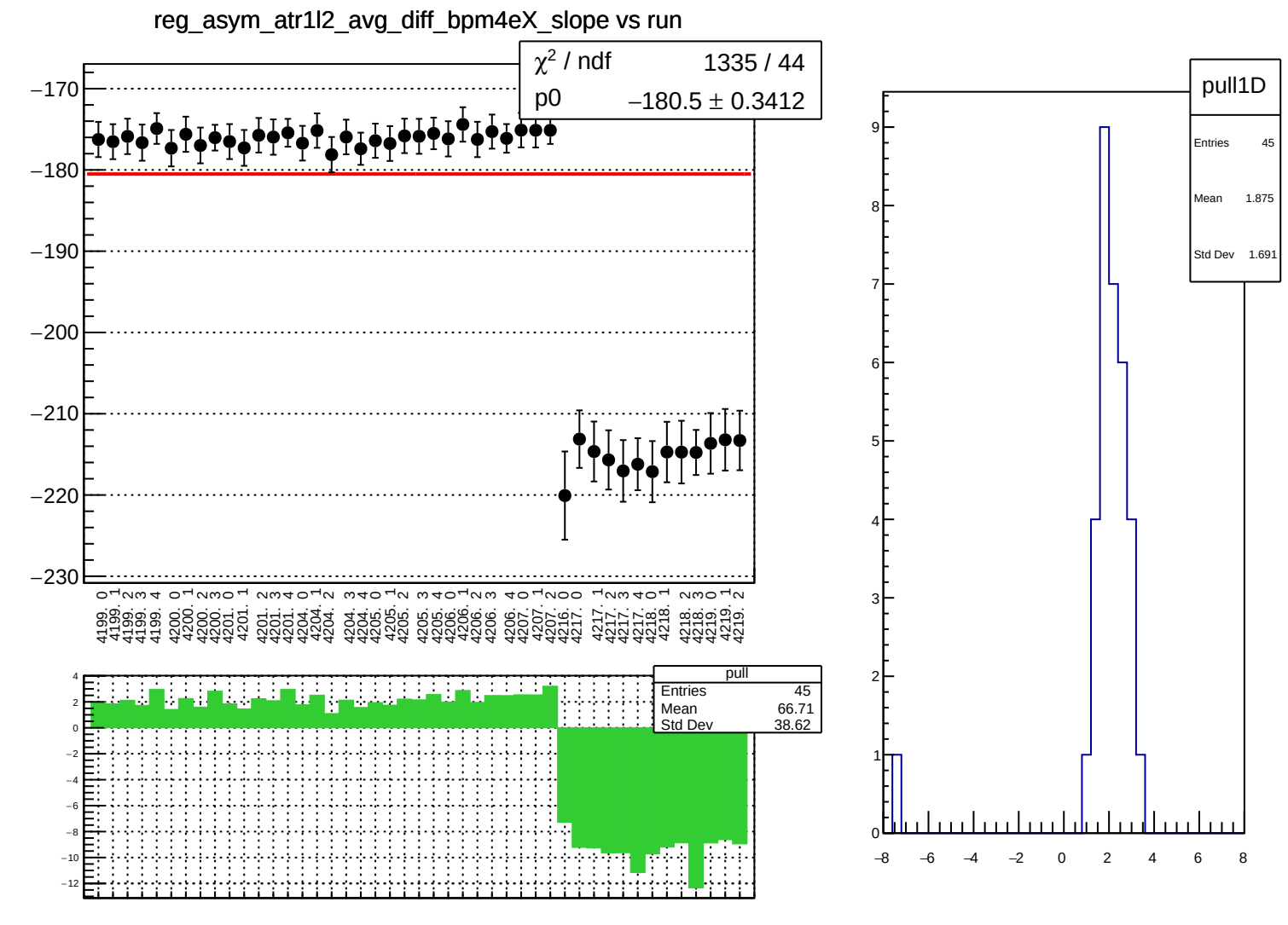

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.48 / 44
p0 −34.36 ± 2.283
pull
Entries 45
Mean 142.8
Std Dev 117.2
pull1D
Entries 45
Mean −0.03187
Std Dev 0.4815

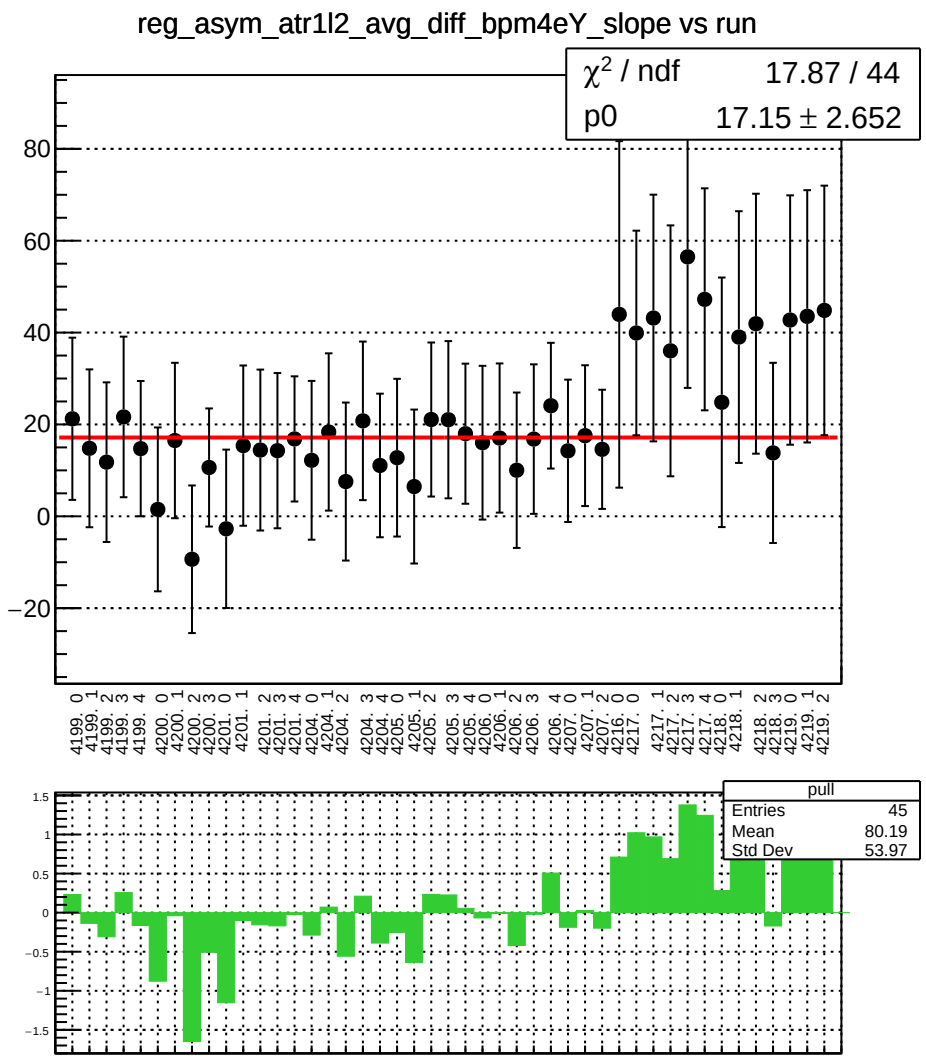

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 201.3 / 44
p0 253 ± 0.4195
260
255
250
245
240
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −285.3
Std Dev 310.5
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.07267
Std Dev 2.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

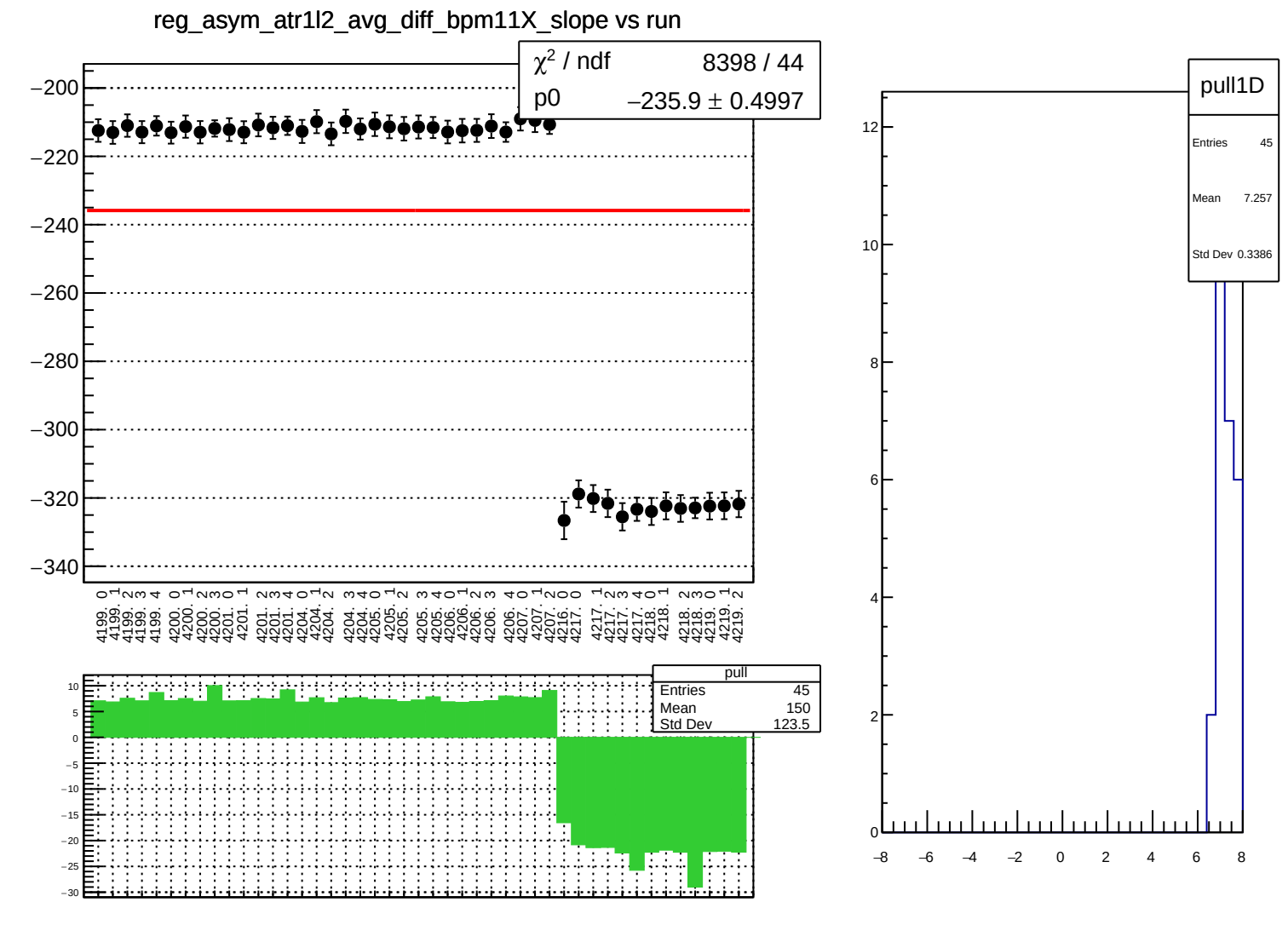

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 288.3 / 44
p0 −19.66 ± 1.902
pull
Entries 45
Mean 73.81
Std Dev 45.56

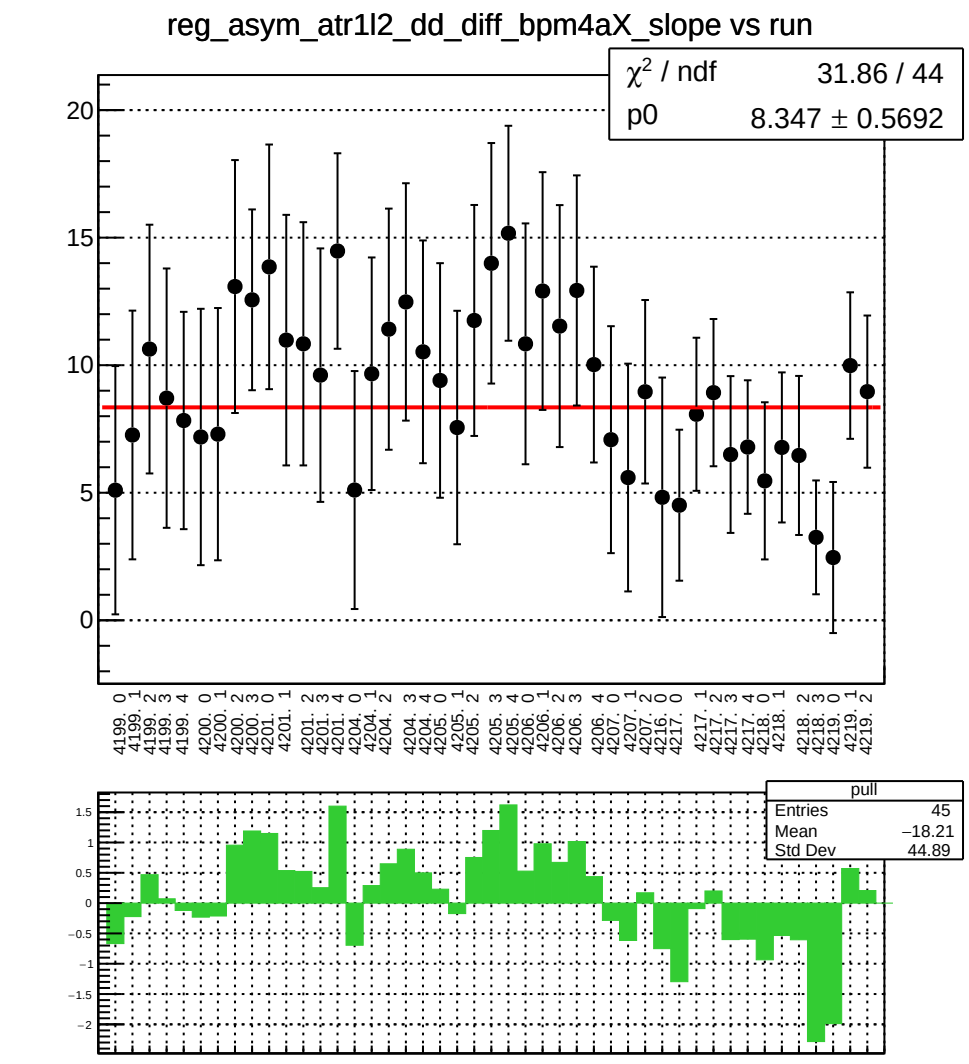

pull1D
Entries 45
Mean −0.4602
Std Dev 2.489

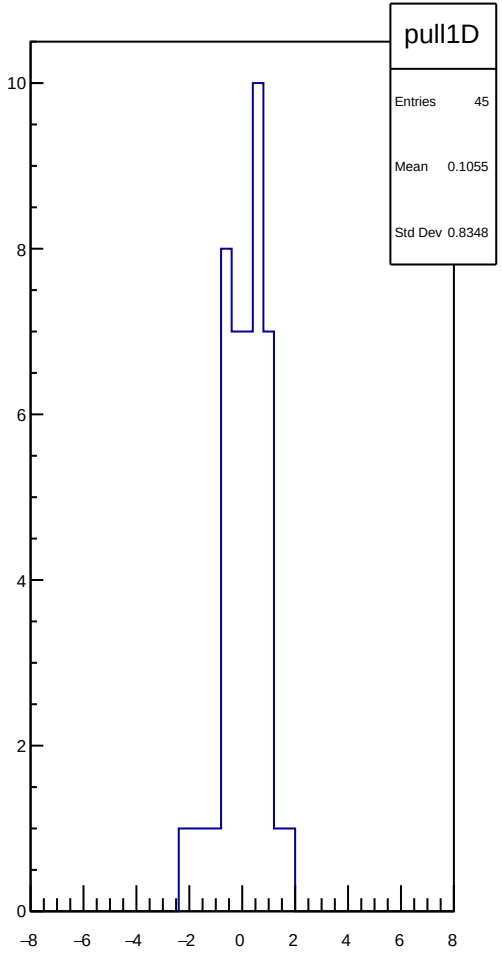

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.756 / 44
p0 21.4 ± 1.586
pull
Entries 45
Mean 131.8
Std Dev 112.6
pull1D
Entries 45
Mean −0.006505
Std Dev 0.4151

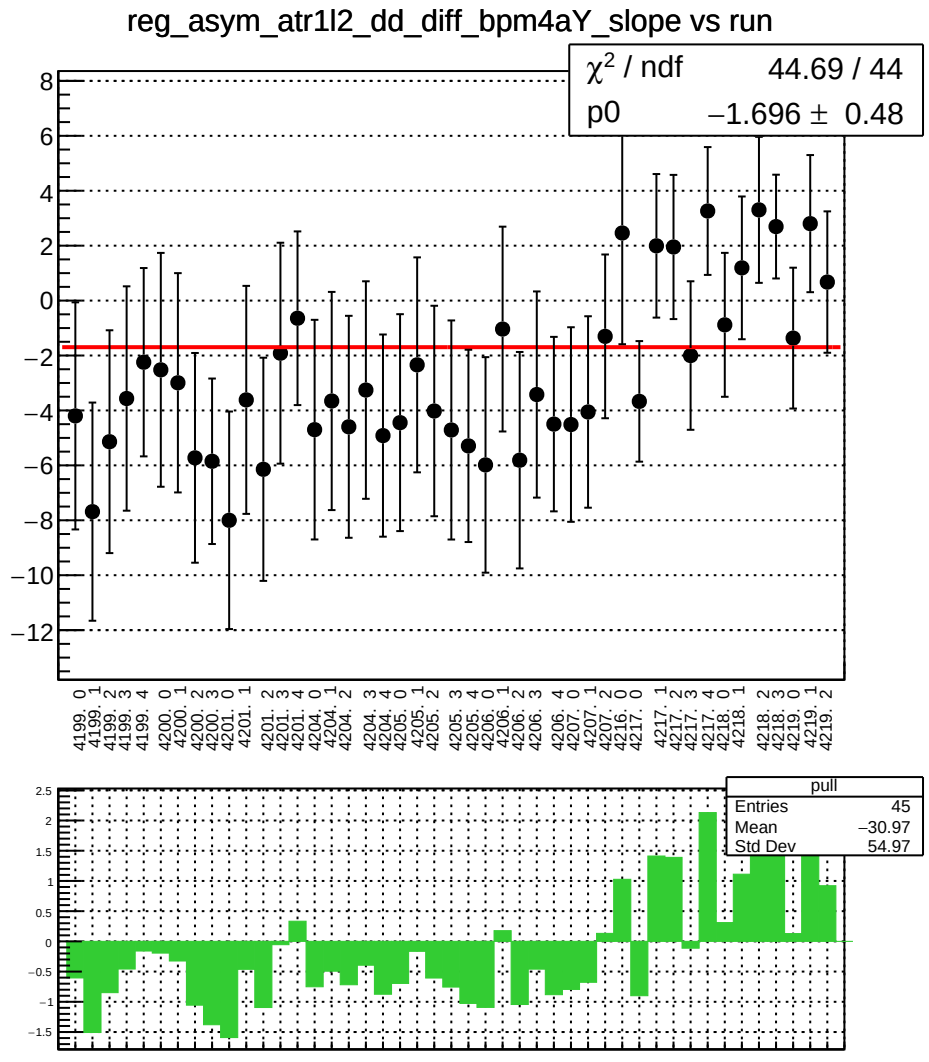

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1335 / 44
p0 −180.5 ± 0.3412
pull
Entries 45
Mean 66.71
Std Dev 38.62
pull1D
Entries 45
Mean 1.875
Std Dev 1.691

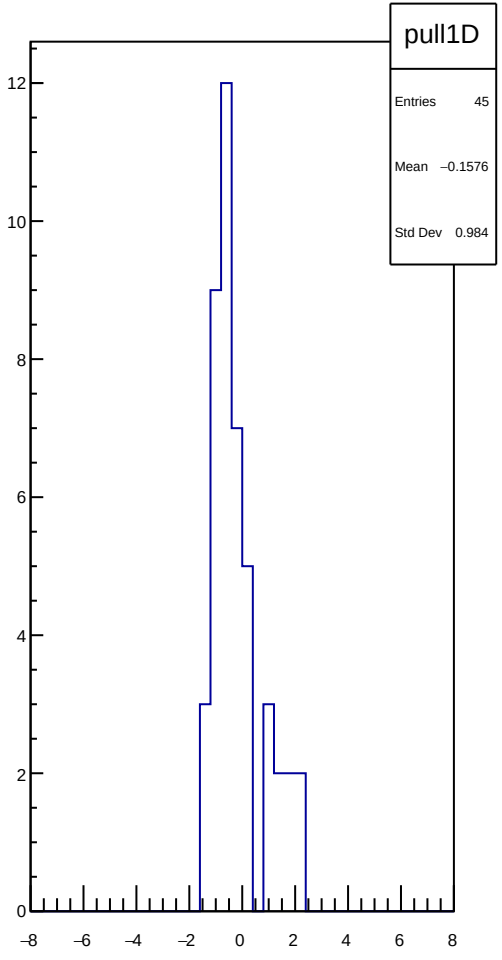

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.87 / 44
p0 17.15 ± 2.652
80
60
40
20
0
−20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 80.19
Std Dev 53.97
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.09397
Std Dev 0.623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

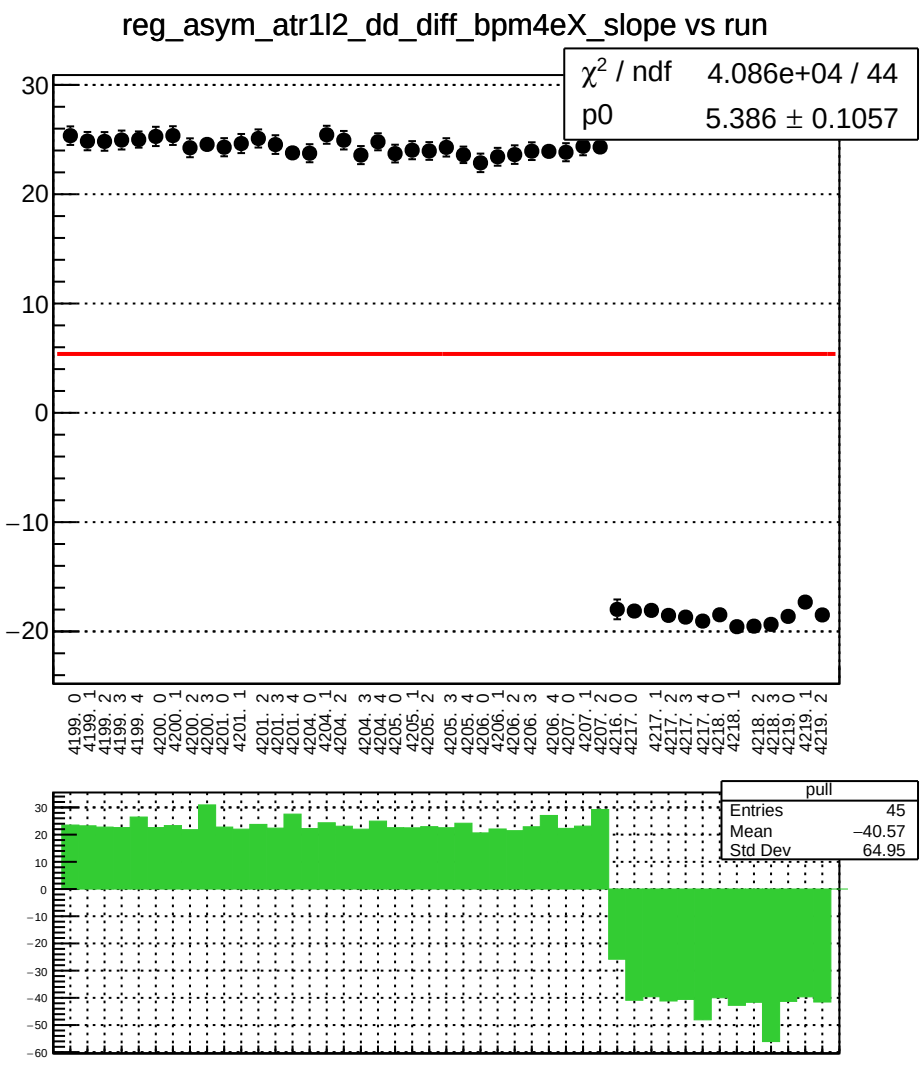

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 8398 / 44
p0 −235.9 ± 0.4997
pull
Entries 45
Mean 150
Std Dev 123.5
pull1D
Entries 45
Mean 7.257
Std Dev 0.3386

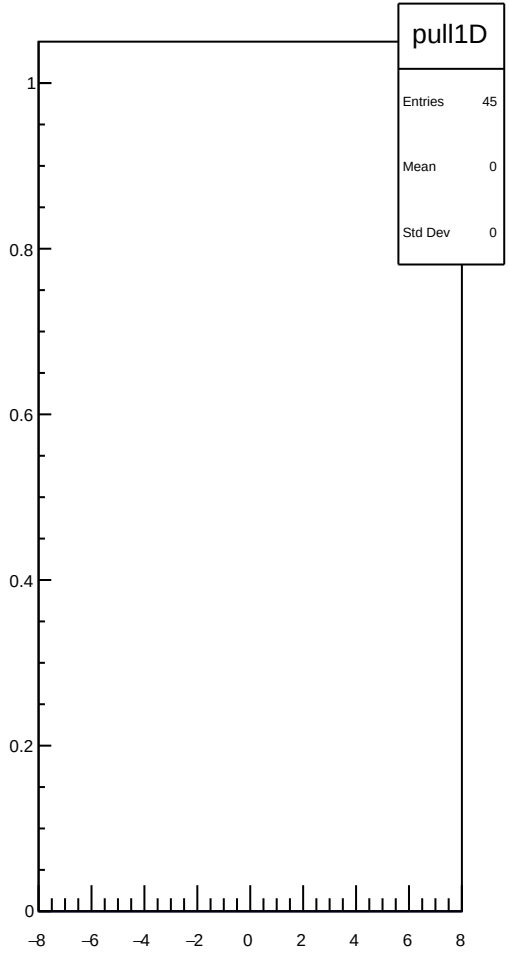

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.86 / 44
p0 8.347 ± 0.5692
pull
Entries 45
Mean −18.21
Std Dev 44.89

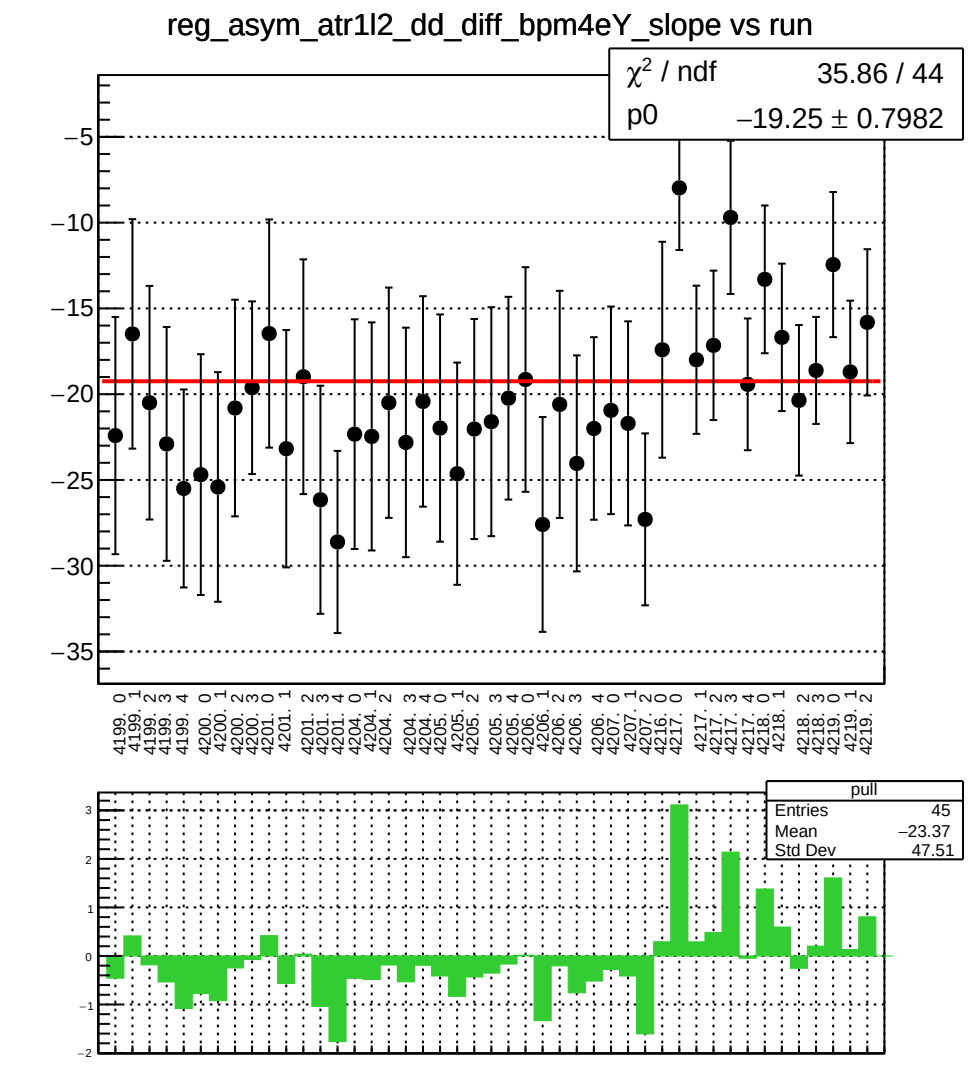

pull1D
Entries 45
Mean 0.1055
Std Dev 0.8348

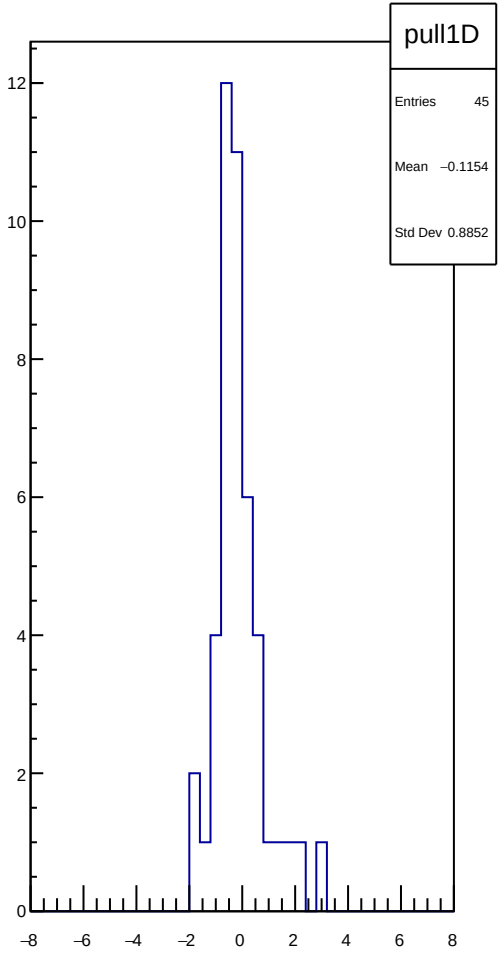

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.69 / 44
p0 −1.696 ± 0.48
pull
Entries 45
Mean −30.97
Std Dev 54.97

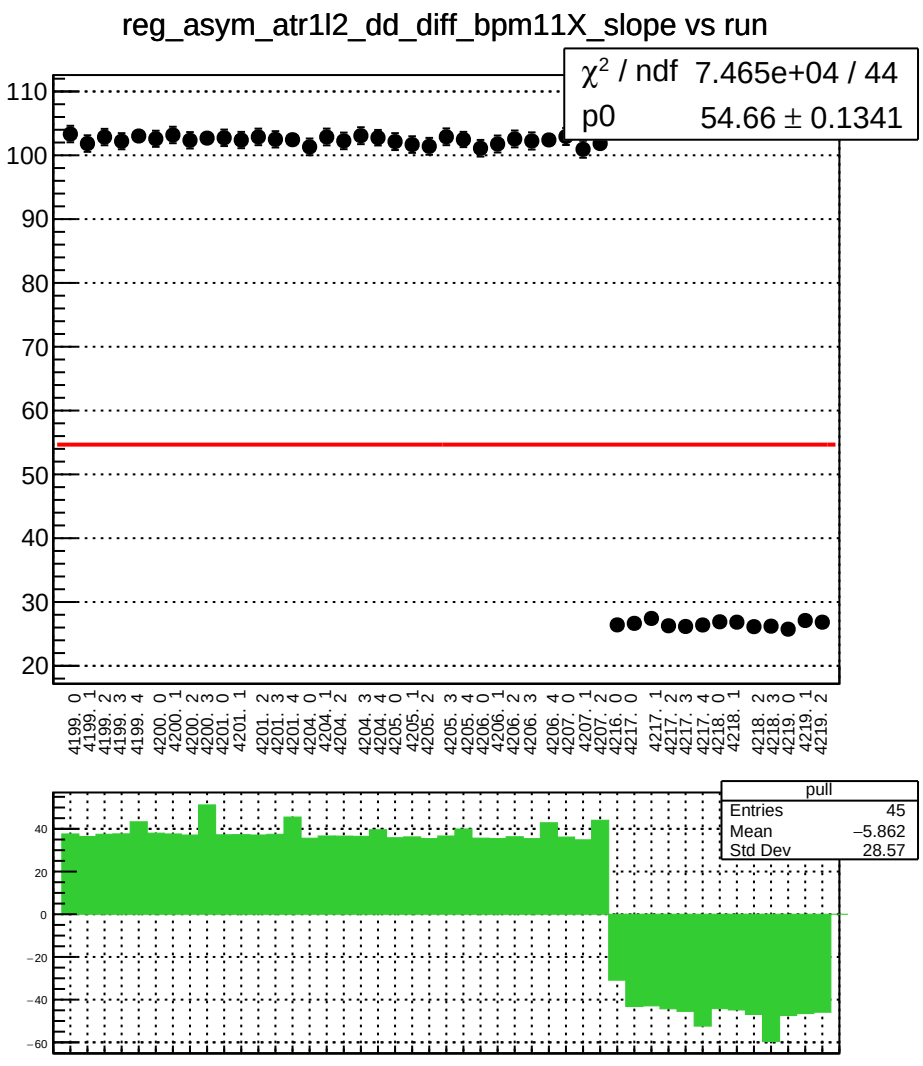

pull1D
Entries 45
Mean −0.1576
Std Dev 0.984

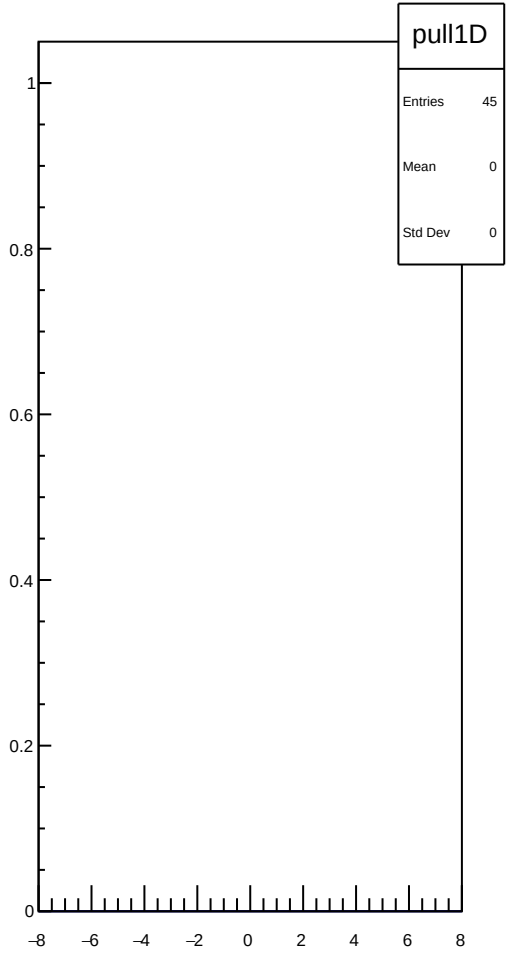

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.086e+04 / 44
p0 5.386 ± 0.1057
pull
Entries 45
Mean −40.57
Std Dev 64.95

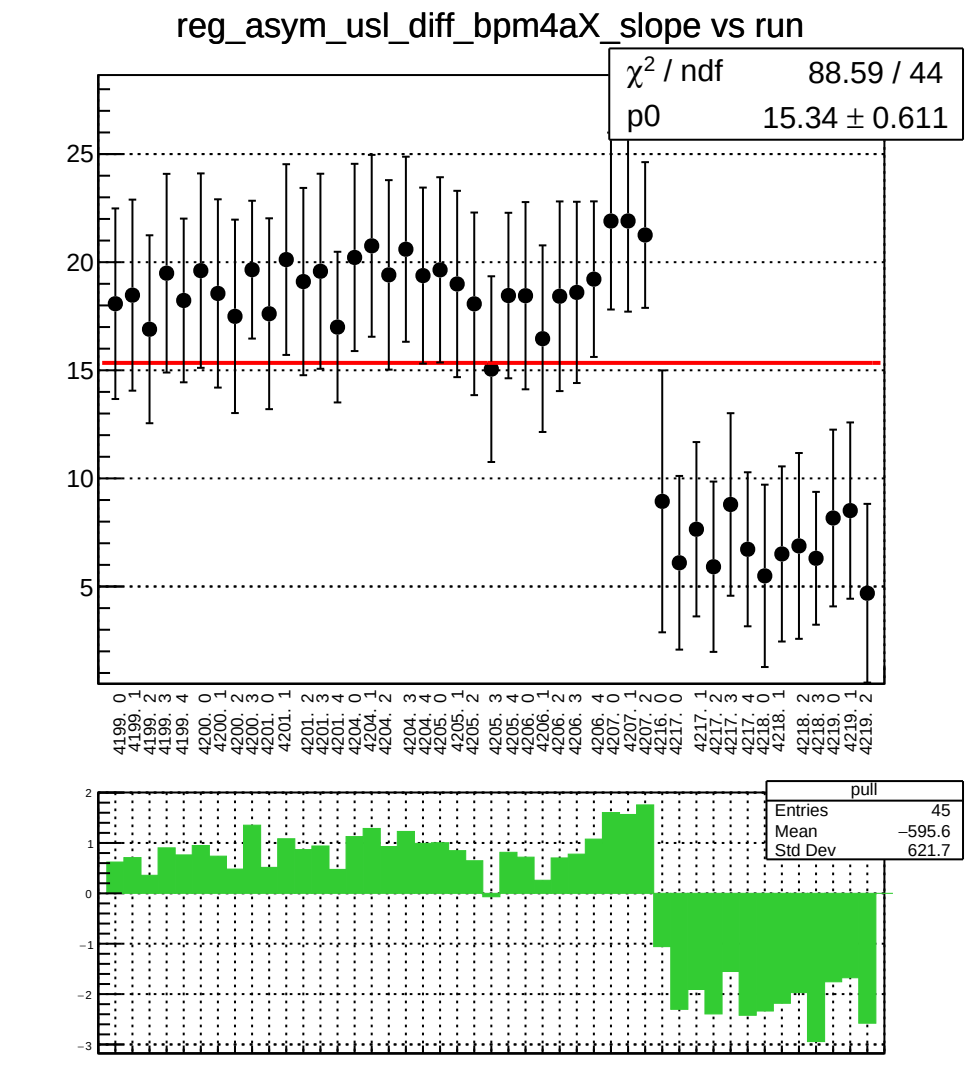

pull1D
Entries 45
Mean 0
Std Dev 0

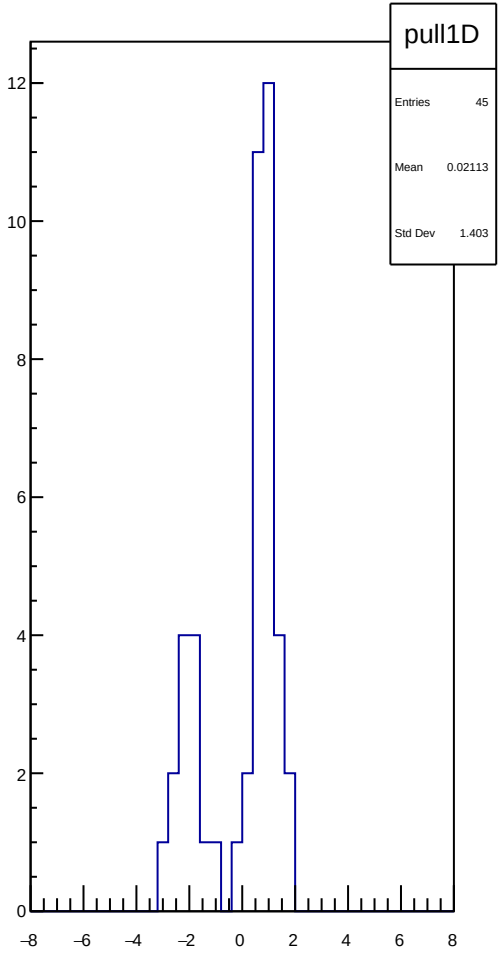

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.86 / 44
p0 −19.25 ± 0.7982
pull
Entries 45
Mean −23.37
Std Dev 47.51

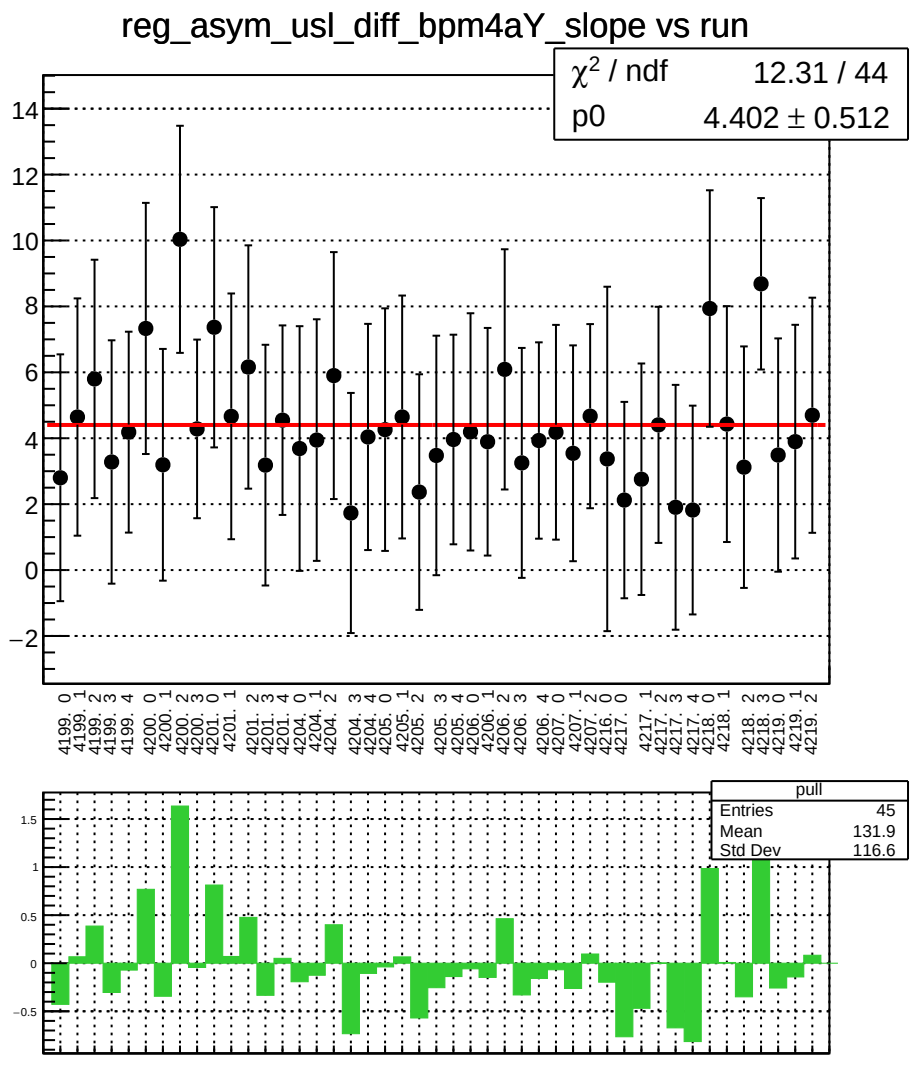

pull1D
Entries 45
Mean −0.1154
Std Dev 0.8852

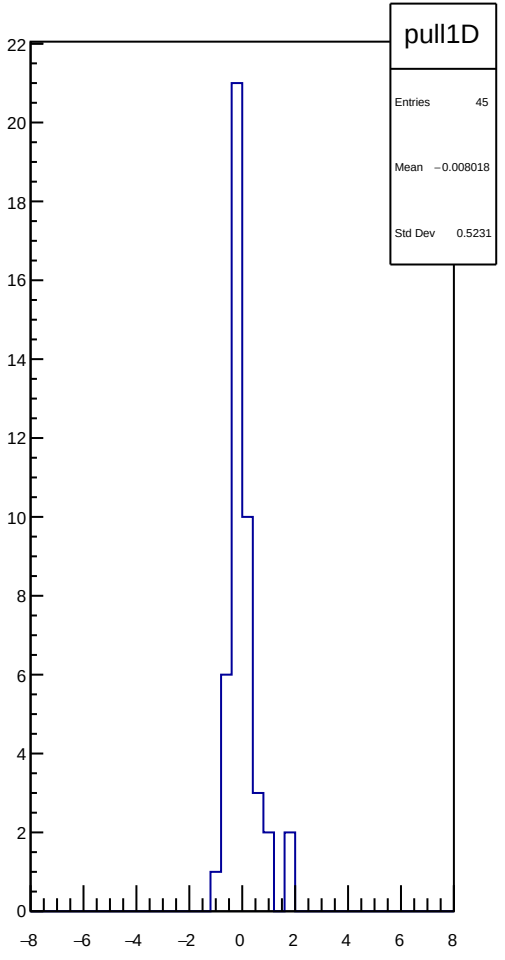

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 7.465e+04 / 44
p0 54.66 ± 0.1341
pull
Entries 45
Mean −5.862
Std Dev 28.57

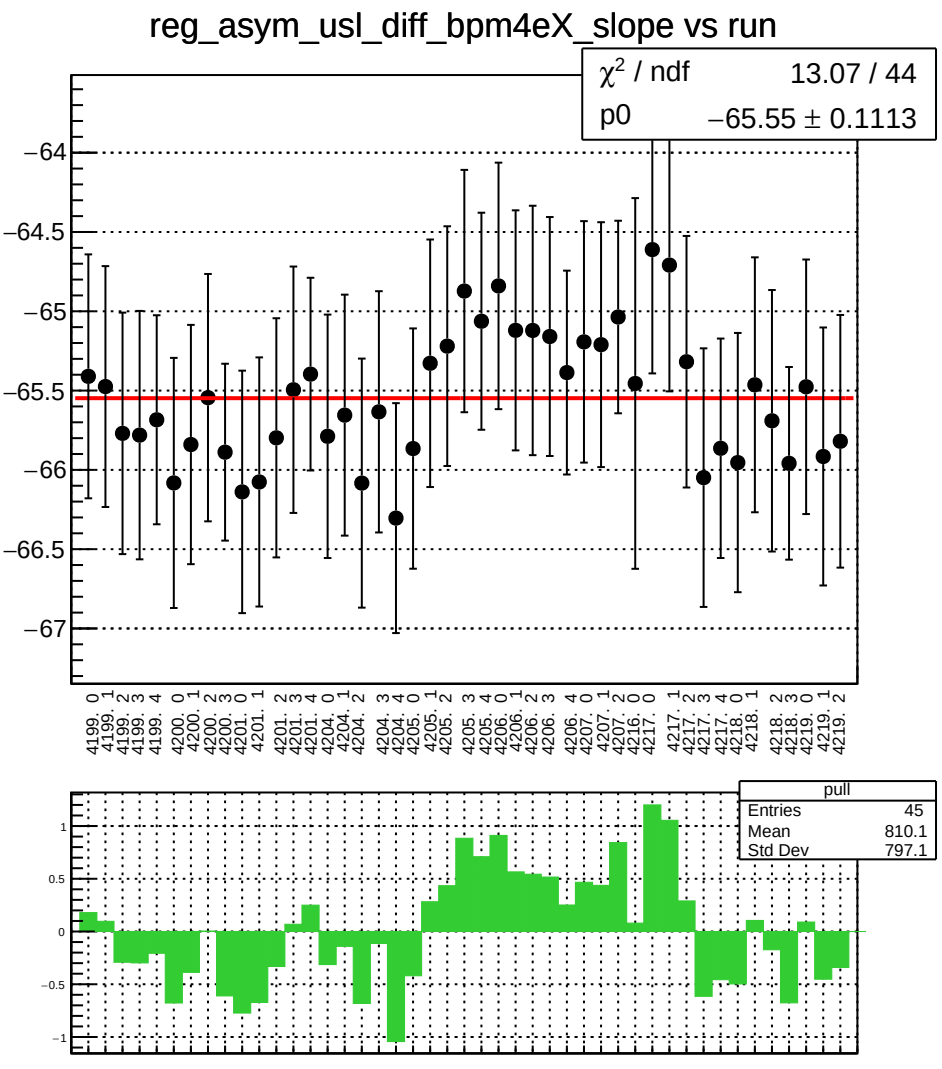

pull1D
Entries 45
Mean 0
Std Dev 0

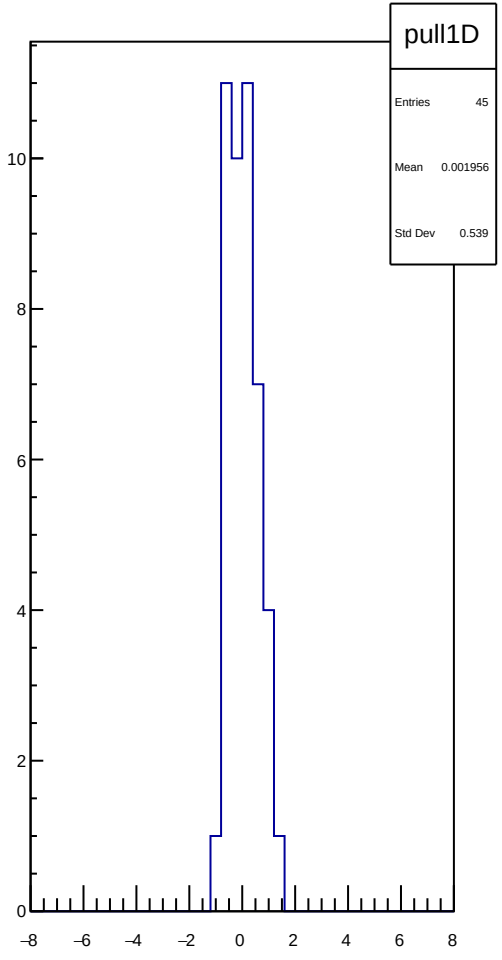

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 88.59 / 44
p0 15.34 ± 0.611
pull
Entries 45
Mean −595.6
Std Dev 621.7

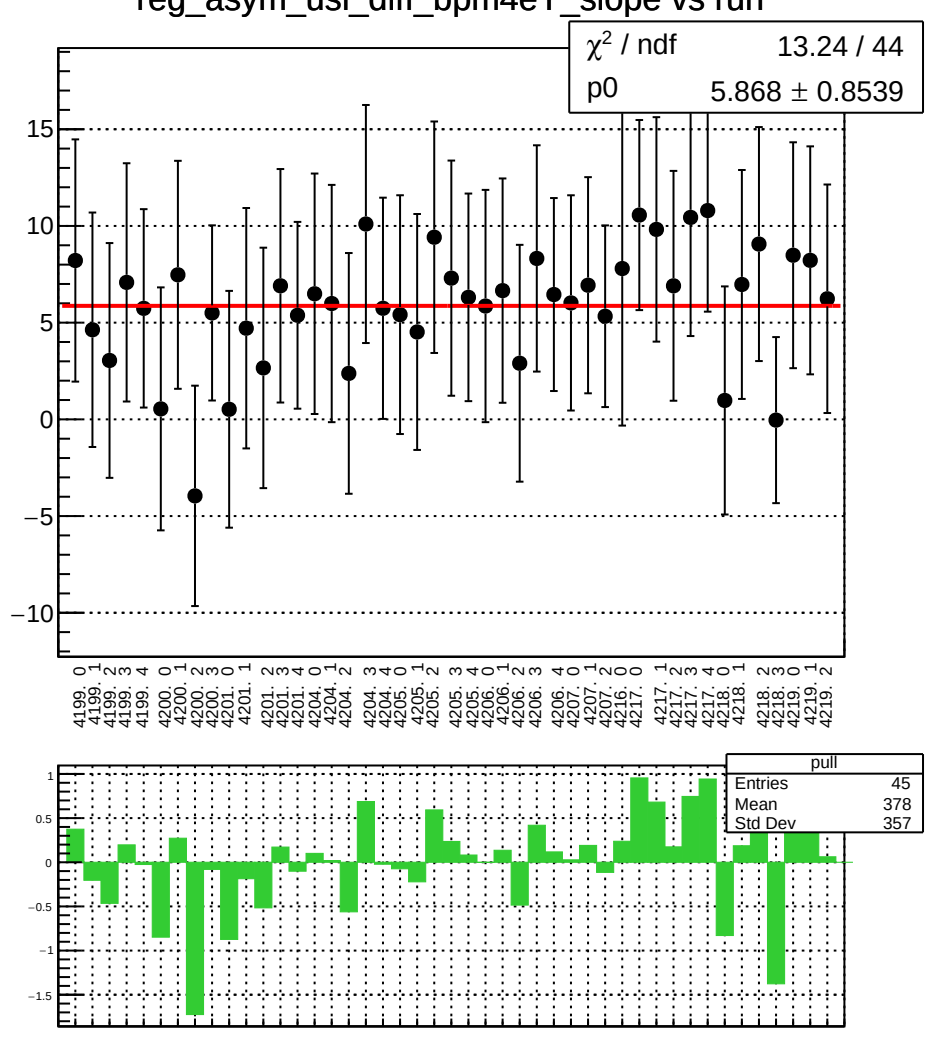

pull1D
Entries 45
Mean 0.02113
Std Dev 1.403

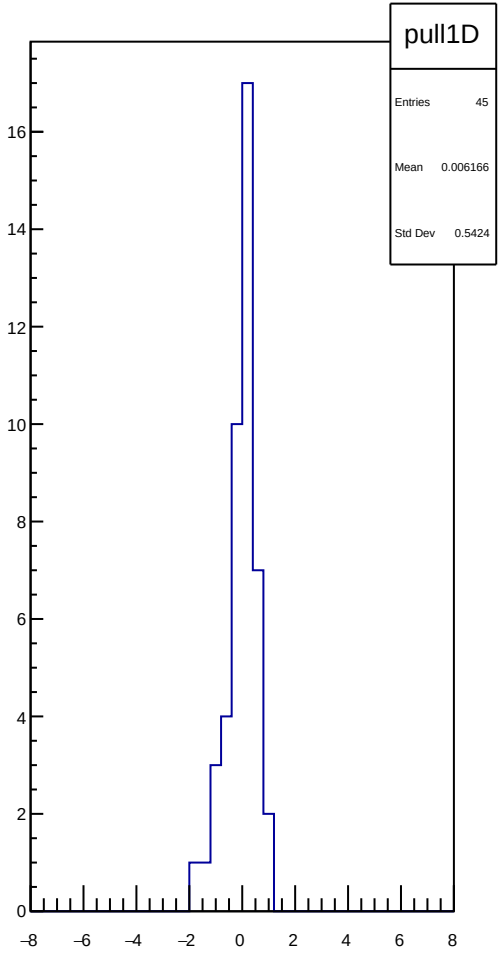

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 12.31 / 44
p0 4.402 ± 0.512
pull
Entries 45
Mean 131.9
Std Dev 116.6

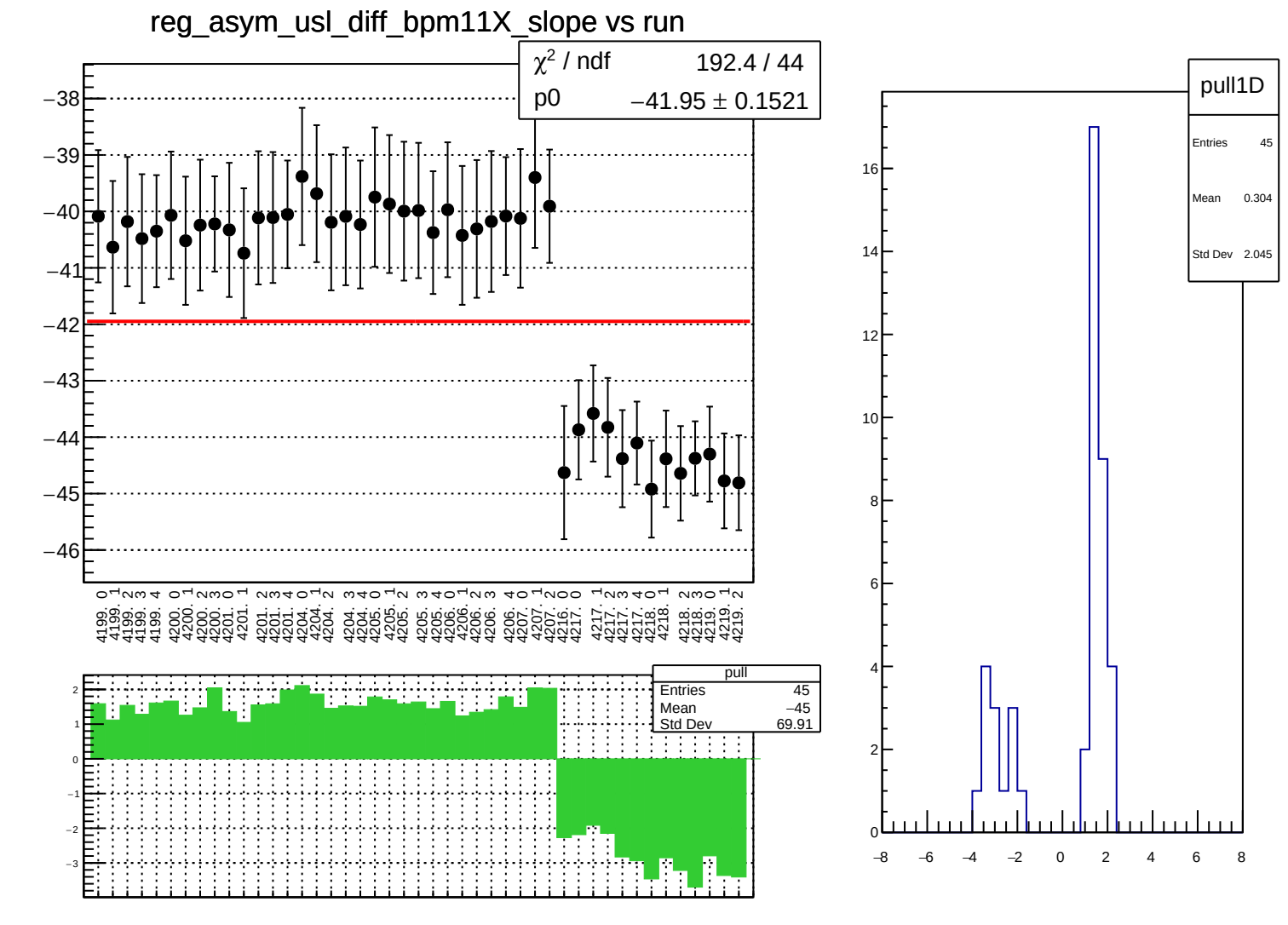

pull1D
Entries 45
Mean −0.008018
Std Dev 0.5231

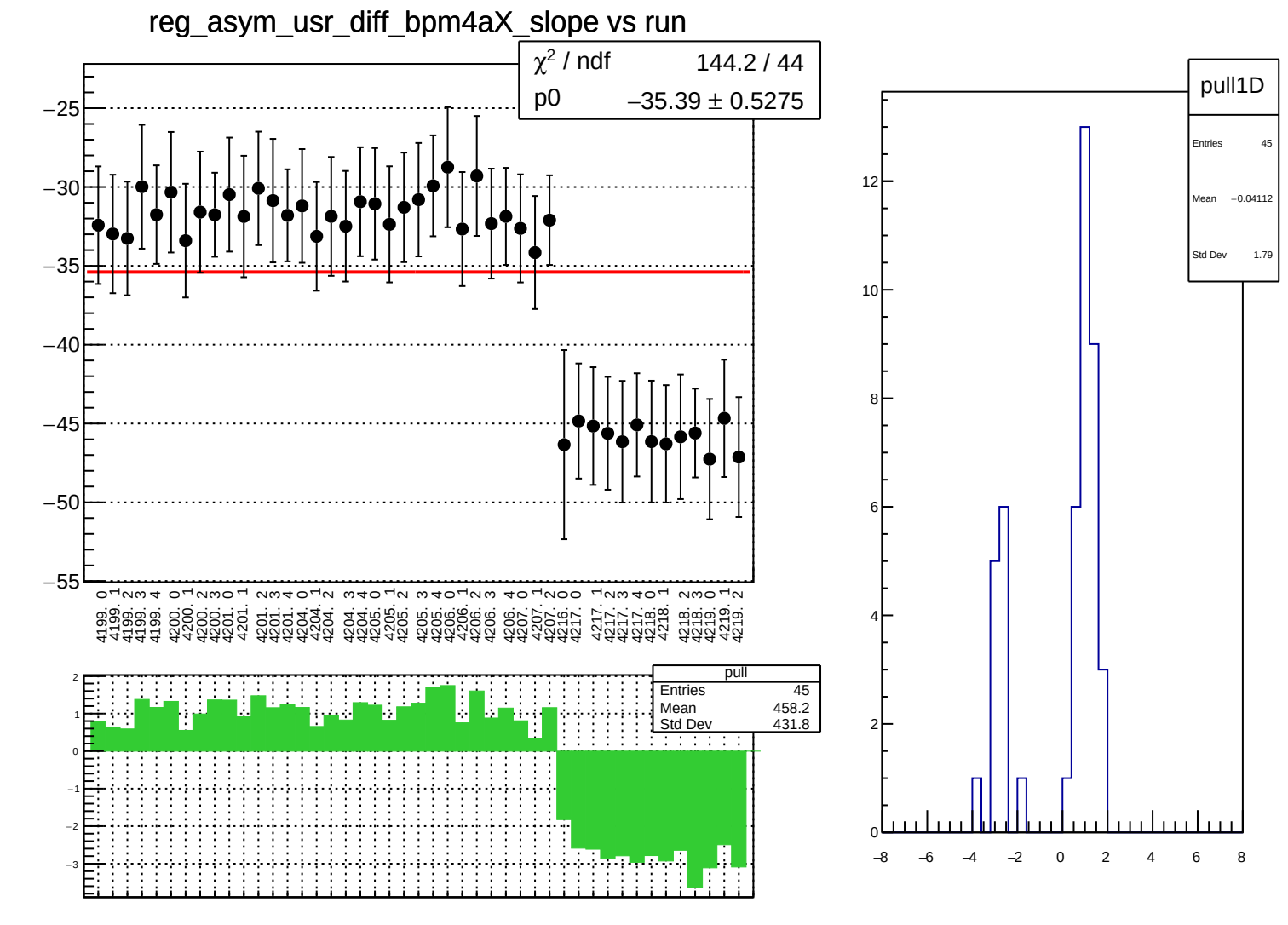

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 13.07 / 44
p0 −65.55 ± 0.1113
−64
−64.5
−65
−65.5
−66
−66.5
−67
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 810.1
Std Dev 797.1
1
0.5
0
−0.5
−1

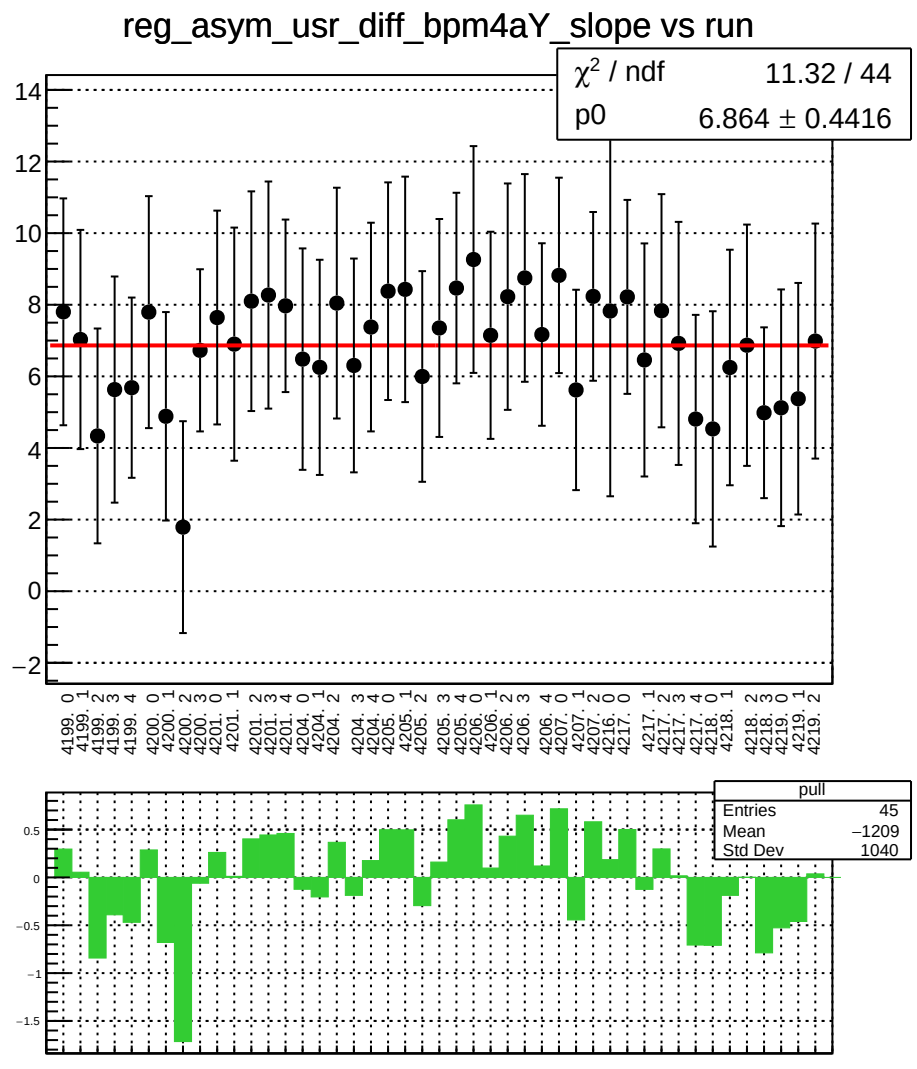

pull1D
Entries 45
Mean 0.001956
Std Dev 0.539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

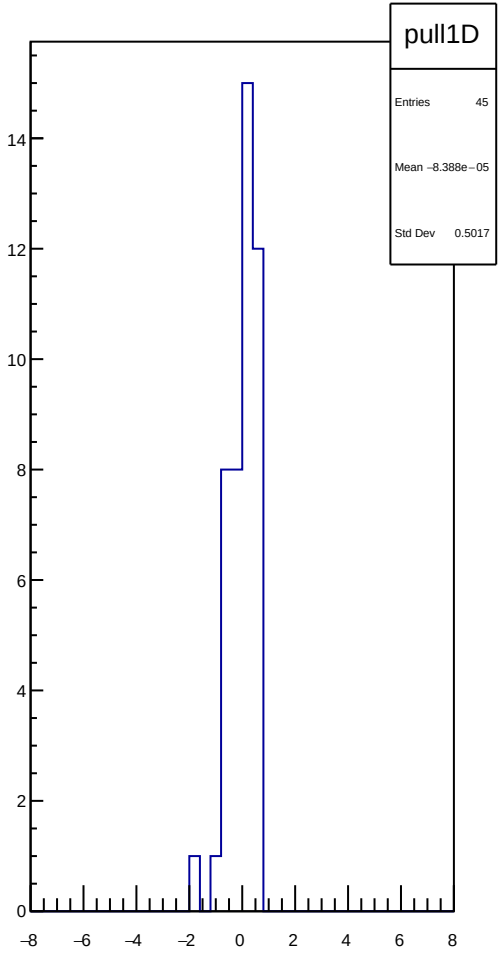

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 13.24 / 44
p0 5.868 ± 0.8539
pull
Entries 45
Mean 378
Std Dev 357

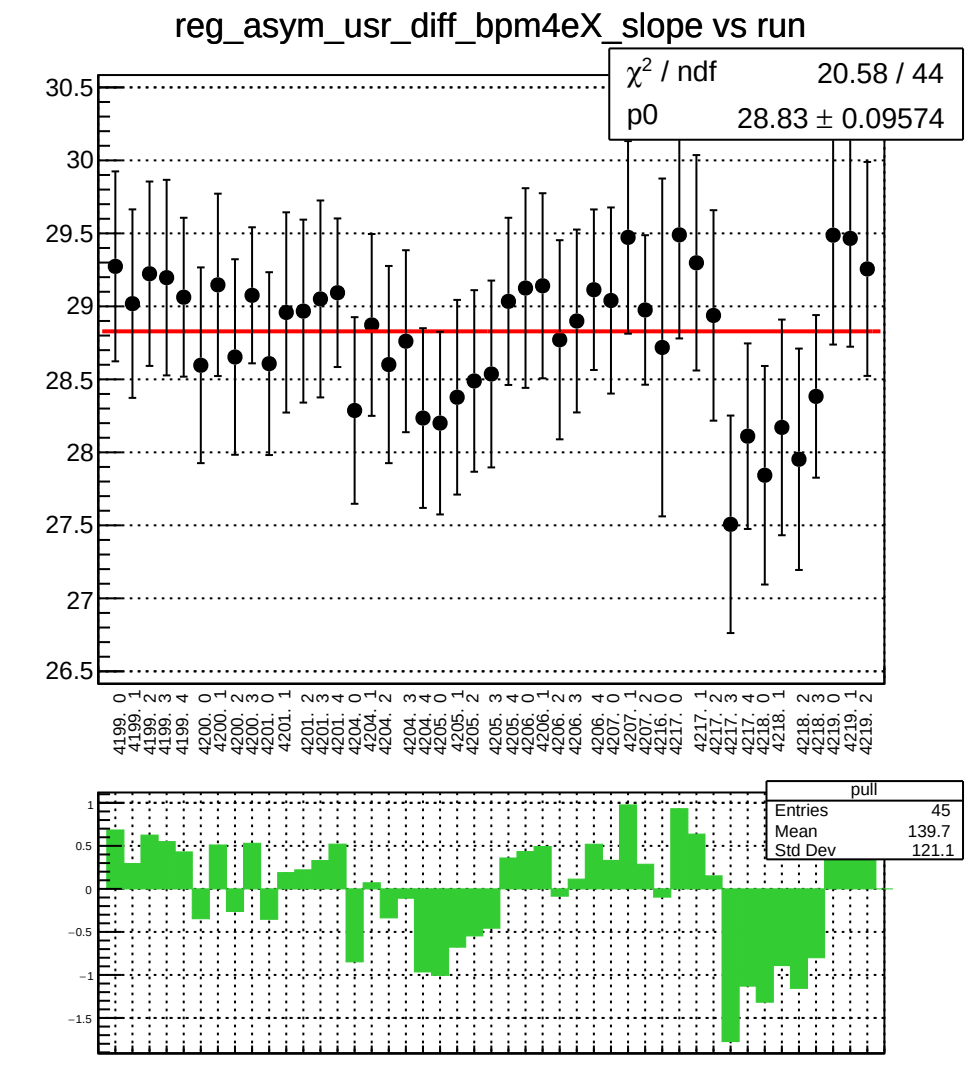

pull1D
Entries 45
Mean 0.006166
Std Dev 0.5424

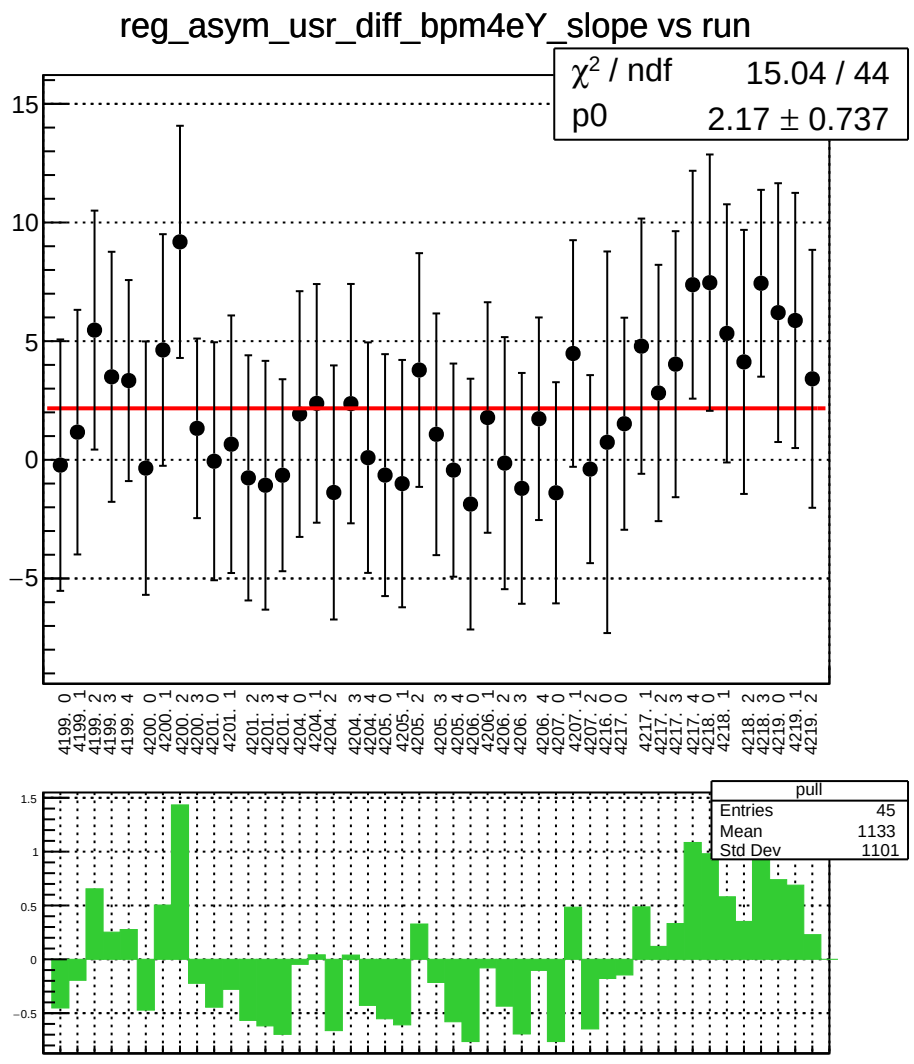

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 192.4 / 44
p0 −41.95 ± 0.1521
pull
Entries 45
Mean −45
Std Dev 69.91
pull1D
Entries 45
Mean 0.304
Std Dev 2.045

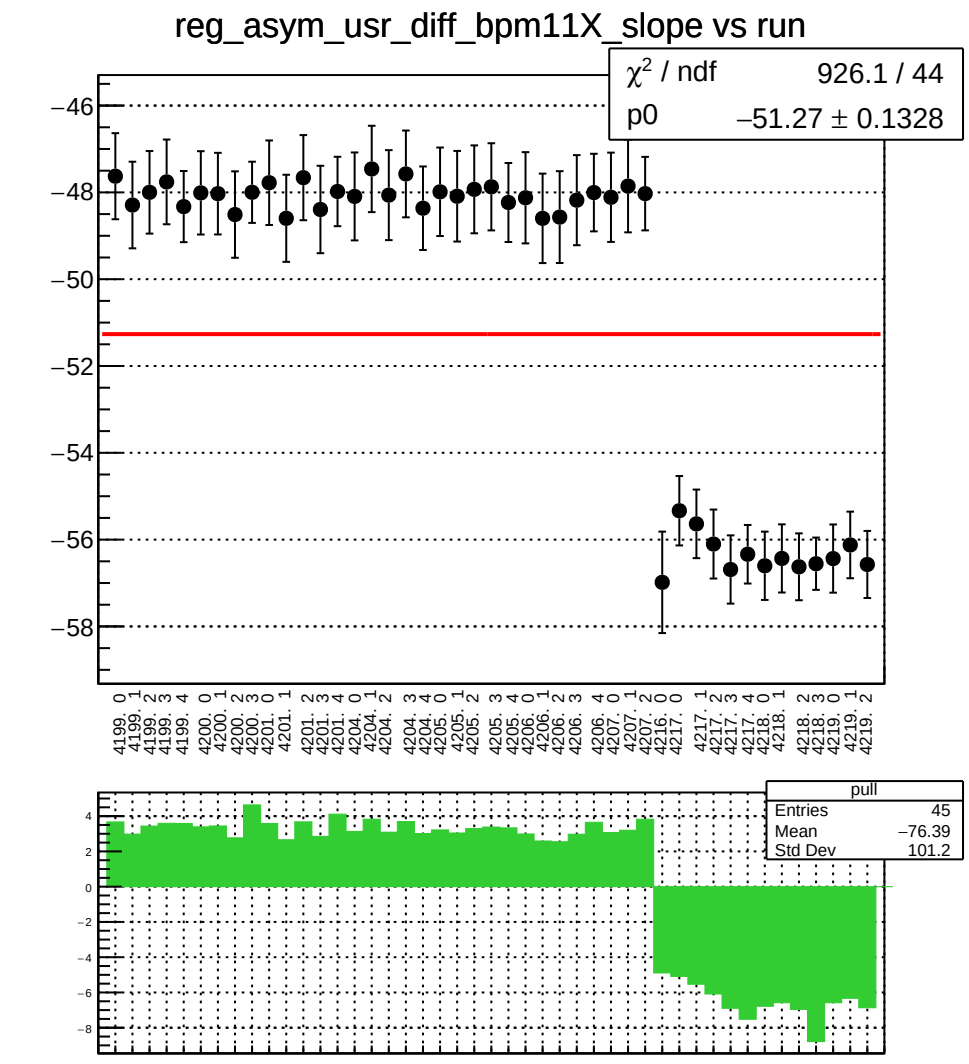

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 144.2 / 44
p0 −35.39 ± 0.5275
pull
Entries 45
Mean 458.2
Std Dev 431.8
pull1D
Entries 45
Mean −0.04112
Std Dev 1.79

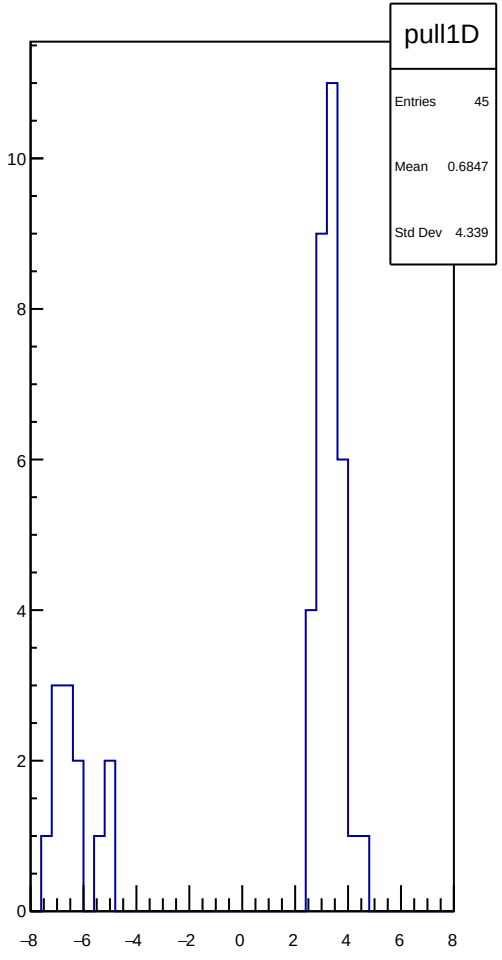

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 11.32 / 44
p0 6.864 ± 0.4416
pull
Entries 45
Mean −1209
Std Dev 1040

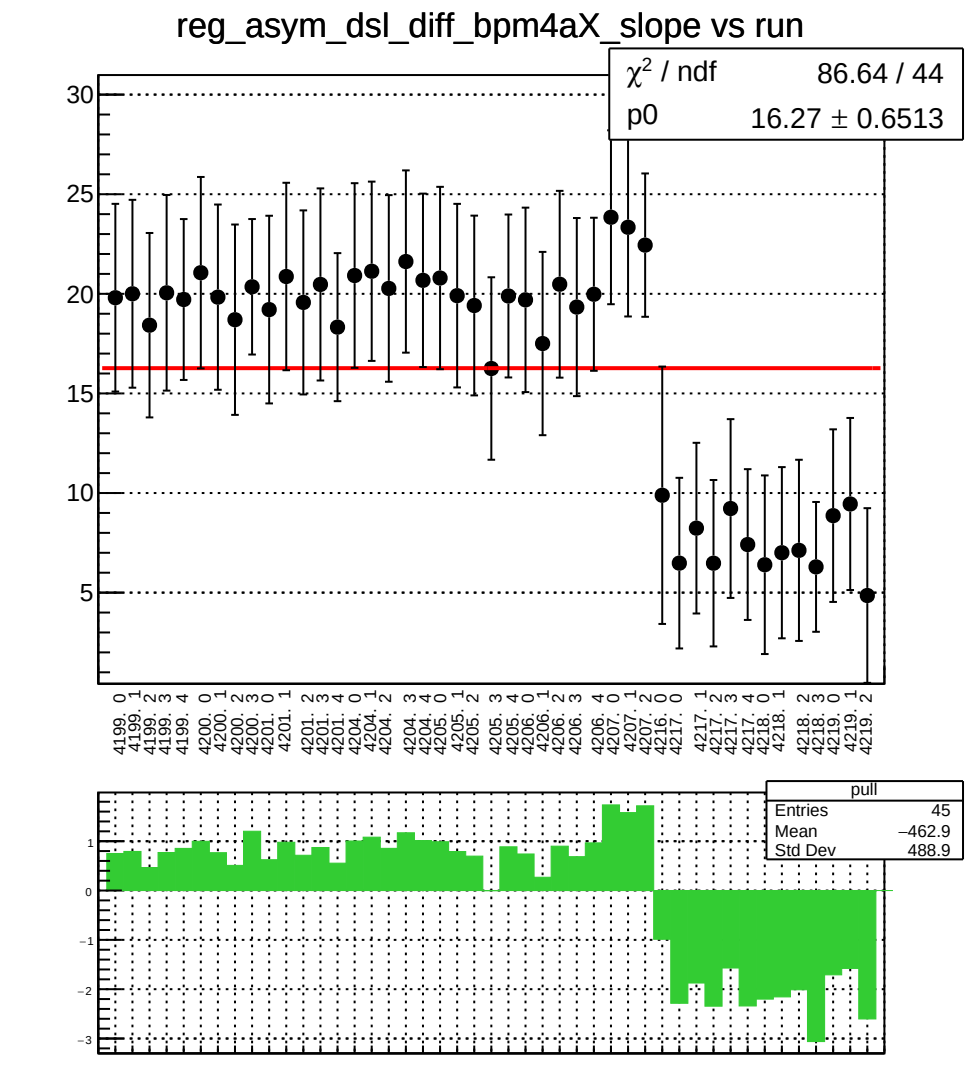

pull1D
Entries 45
Mean −8.388e−05
Std Dev 0.5017

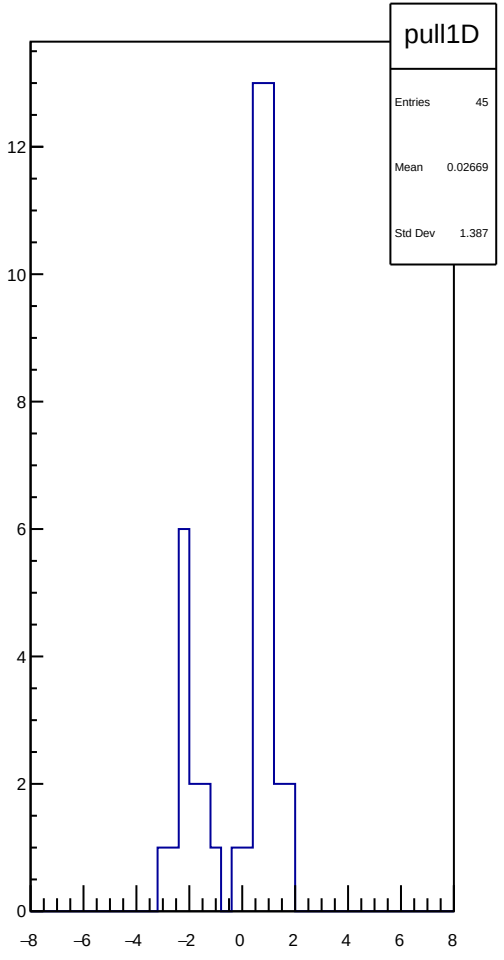

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 20.58 / 44
p0 28.83 ± 0.09574
30.5
30
29.5
29
28.5
28
27.5
27
26.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 139.7
Std Dev 121.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01441
Std Dev 0.6761
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

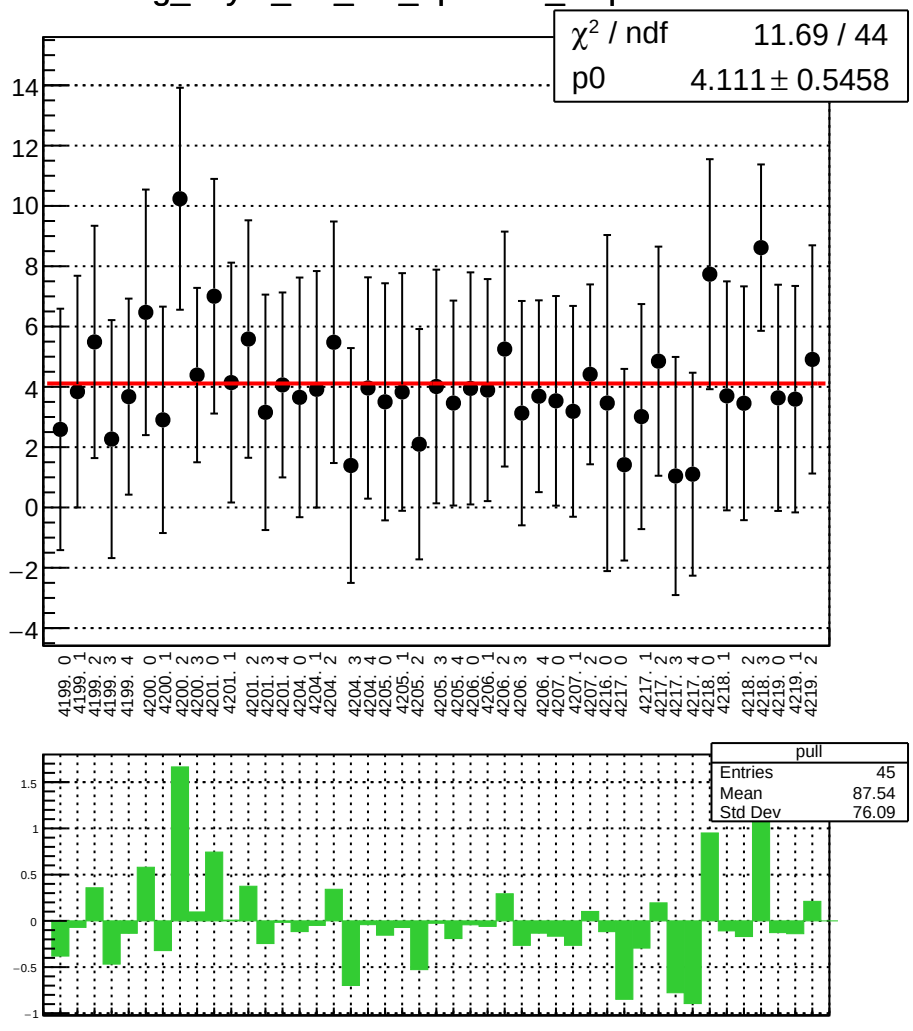

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 15.04 / 44
p0 2.17 ± 0.737
15
10
5
0
−5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 1133
Std Dev 1101
1.5
1
0.5
0
−0.5
pull1D
Entries 45
Mean 0.002197
Std Dev 0.578
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

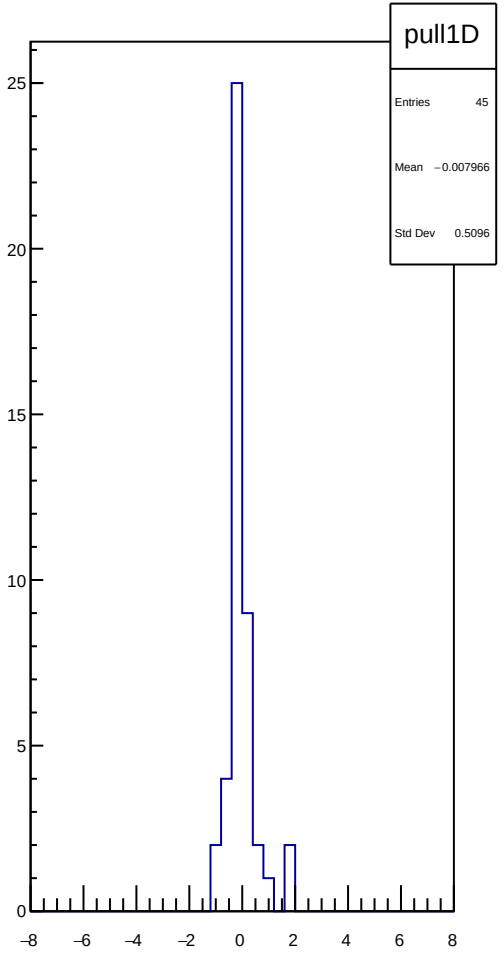

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 926.1 / 44
p0 −51.27 ± 0.1328
−46
−48
−50
−52
−54
−56
−58
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −76.39
Std Dev 101.2
4
2
0
−2
−4
−6
−8

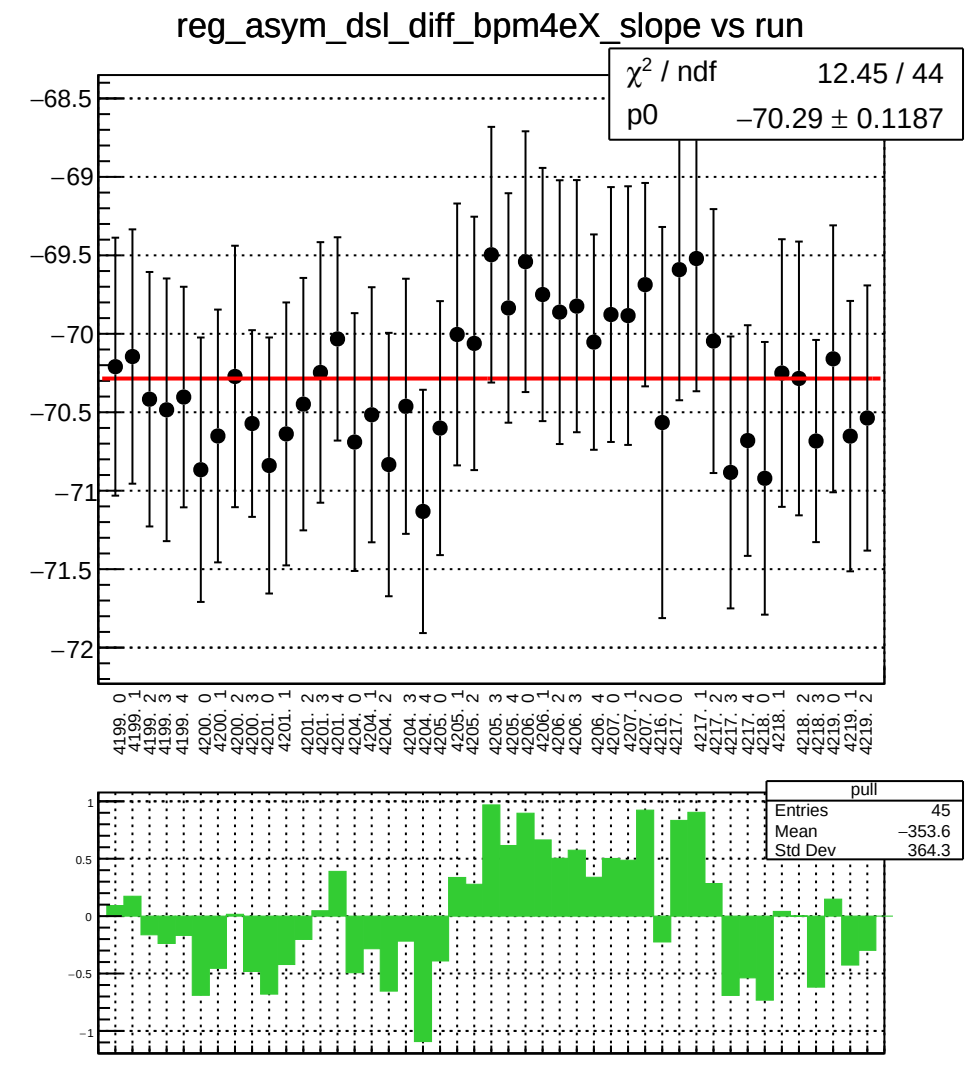

pull1D
Entries 45
Mean 0.6847
Std Dev 4.339
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

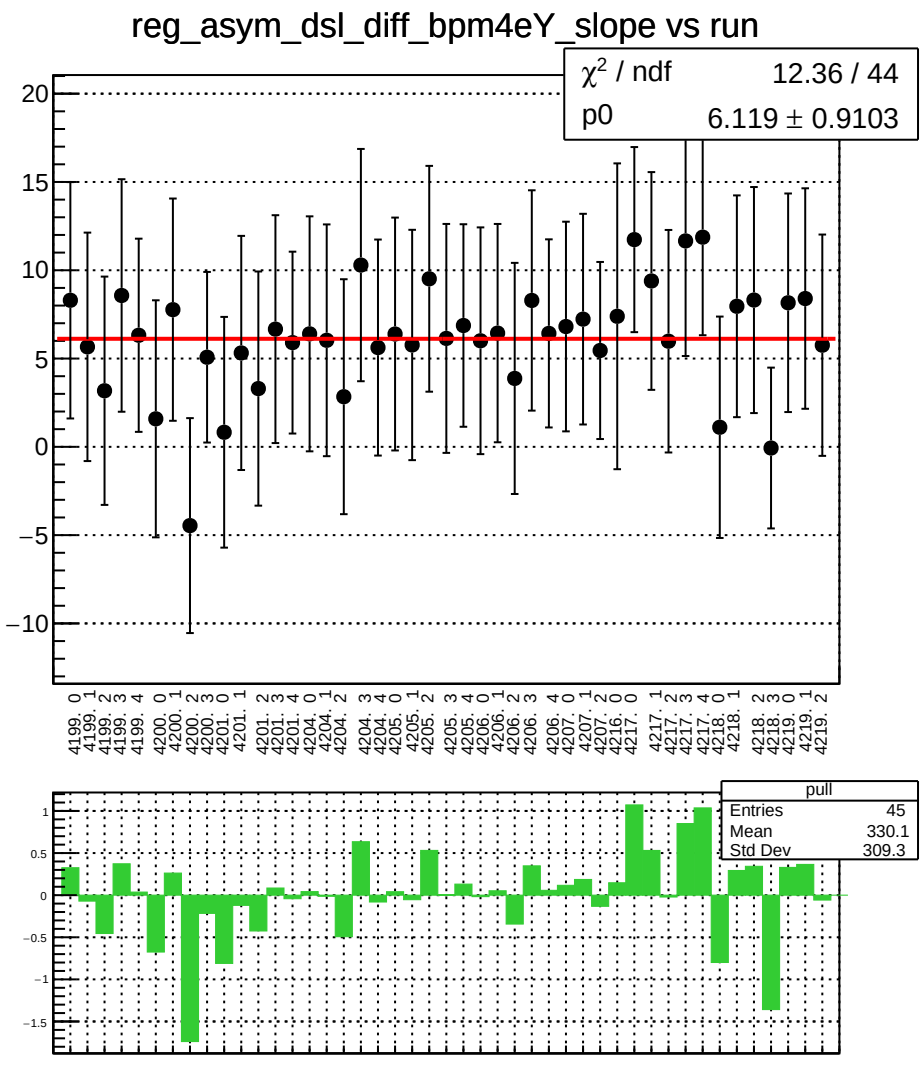

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 86.64 / 44
p0 16.27 ± 0.6513
pull
Entries 45
Mean −462.9
Std Dev 488.9

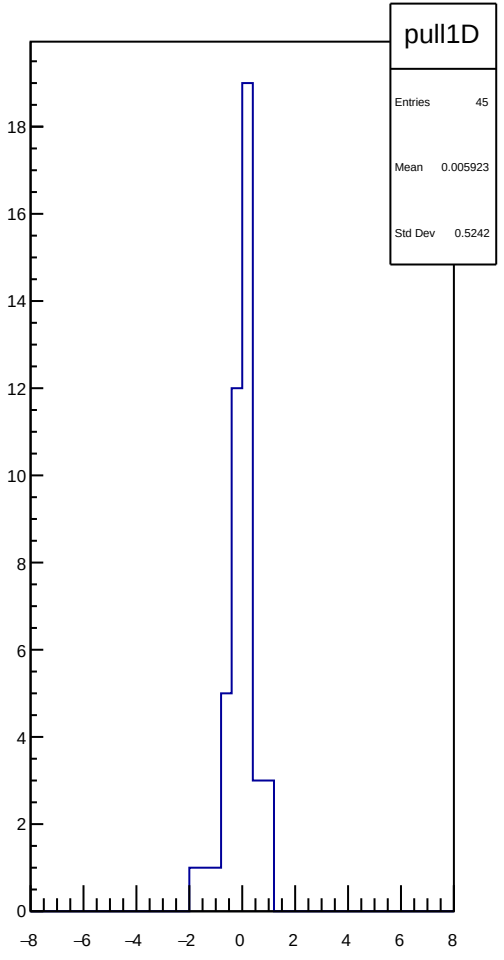

pull1D
Entries 45
Mean 0.02669
Std Dev 1.387

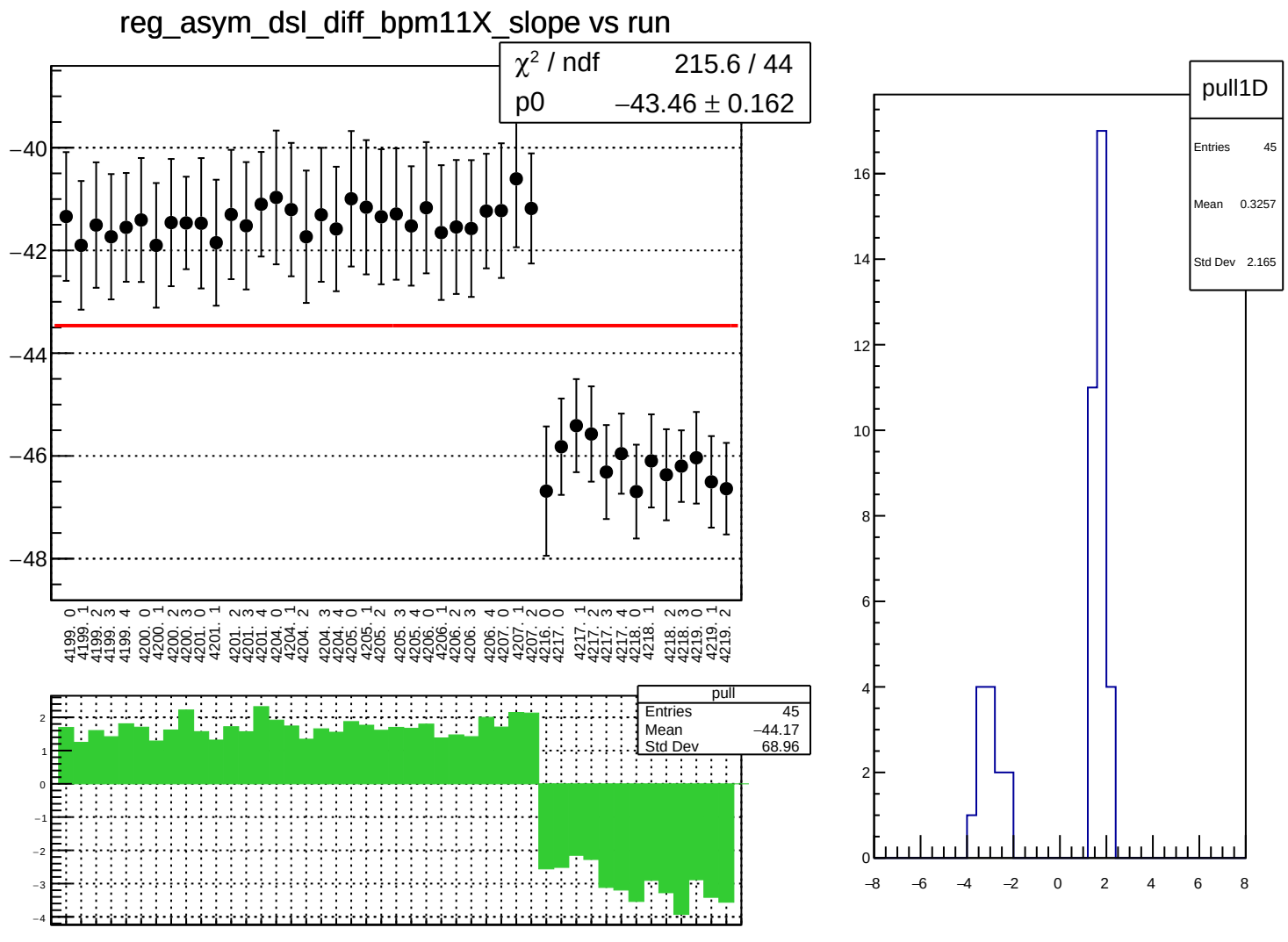

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 11.69 / 44
p0 4.111 ± 0.5458
pull
Entries 45
Mean 87.54
Std Dev 76.09

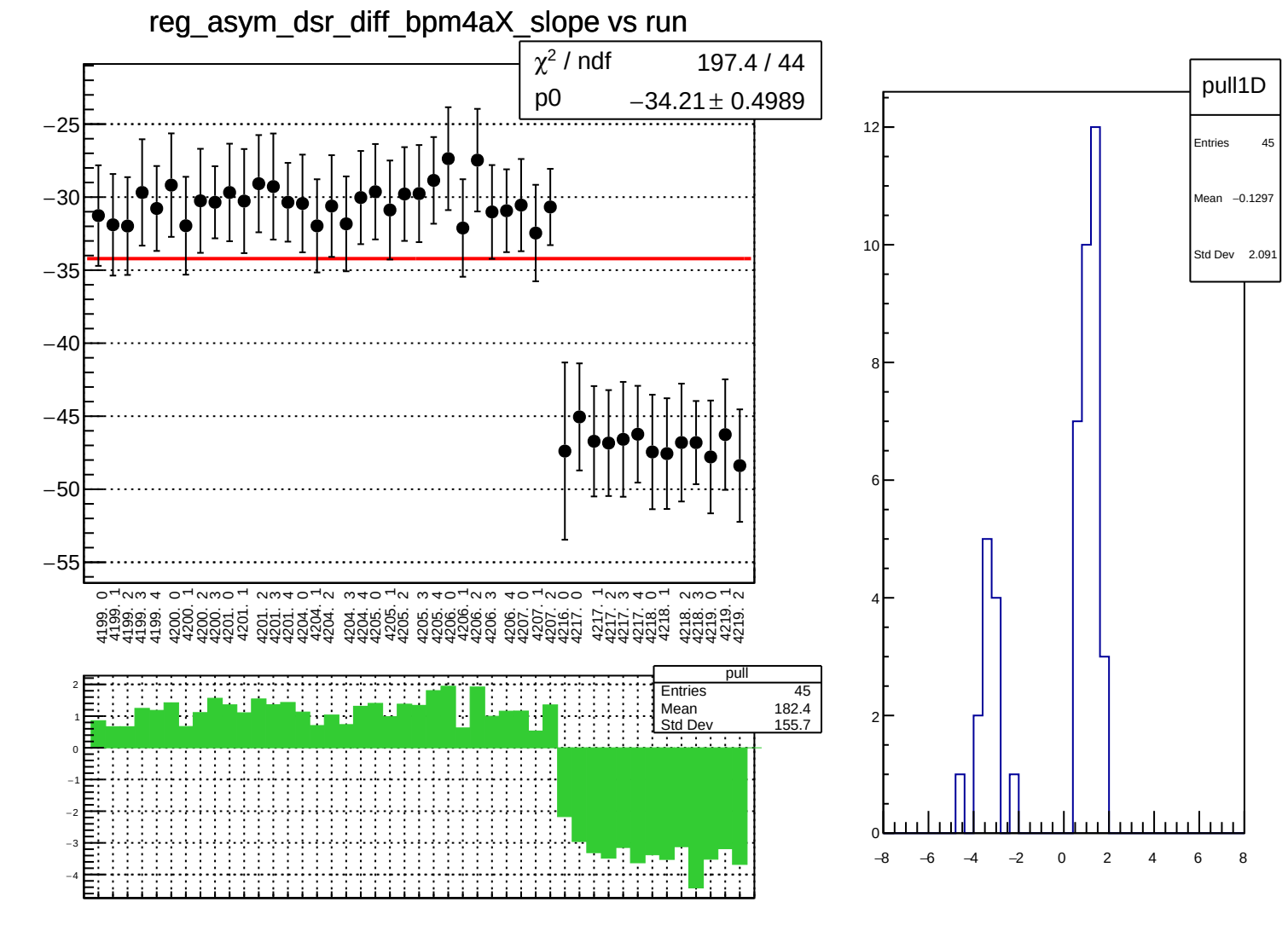

pull1D
Entries 45
Mean −0.007966
Std Dev 0.5096

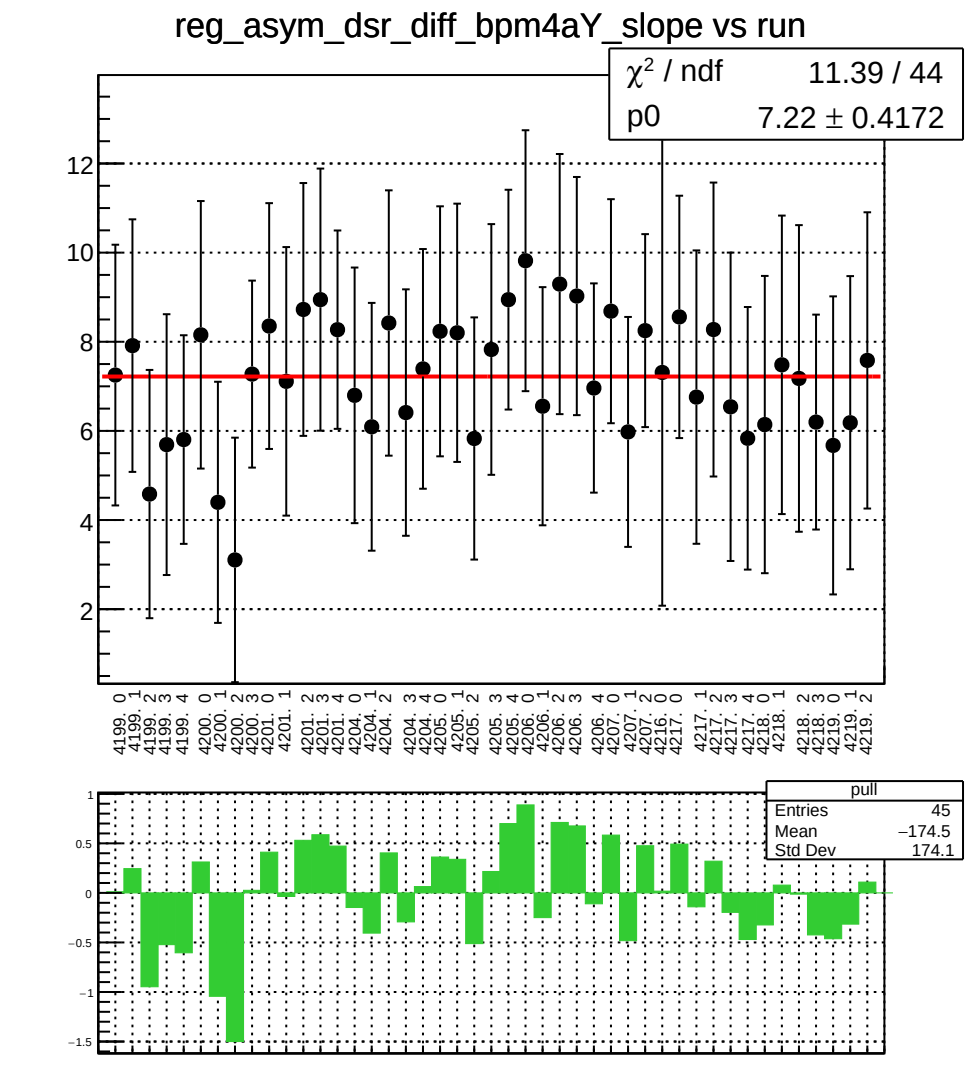

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 12.45 / 44
p0 −70.29 ± 0.1187
−68.5
−69
−69.5
−70
−70.5
−71
−71.5
−72
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −353.6
Std Dev 364.3
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.003178
Std Dev 0.526
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

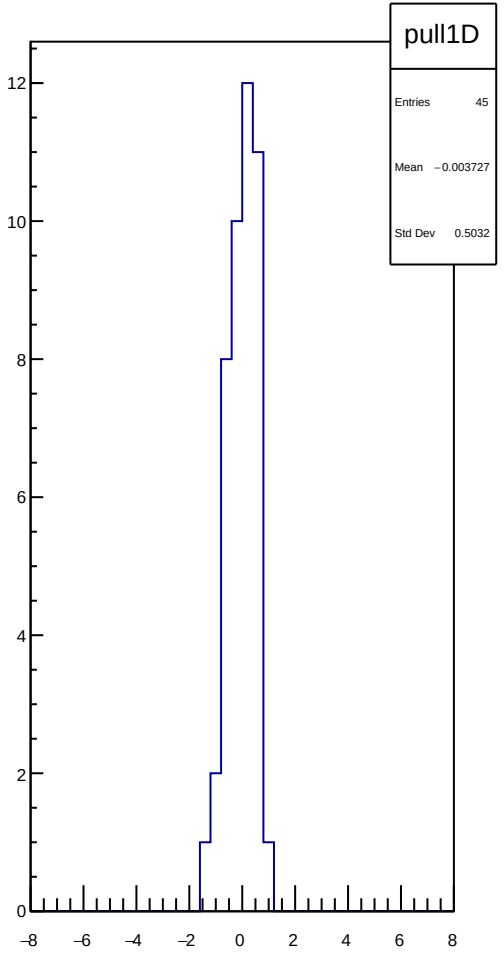

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 12.36 / 44
p0 6.119 ± 0.9103
pull
Entries 45
Mean 330.1
Std Dev 309.3

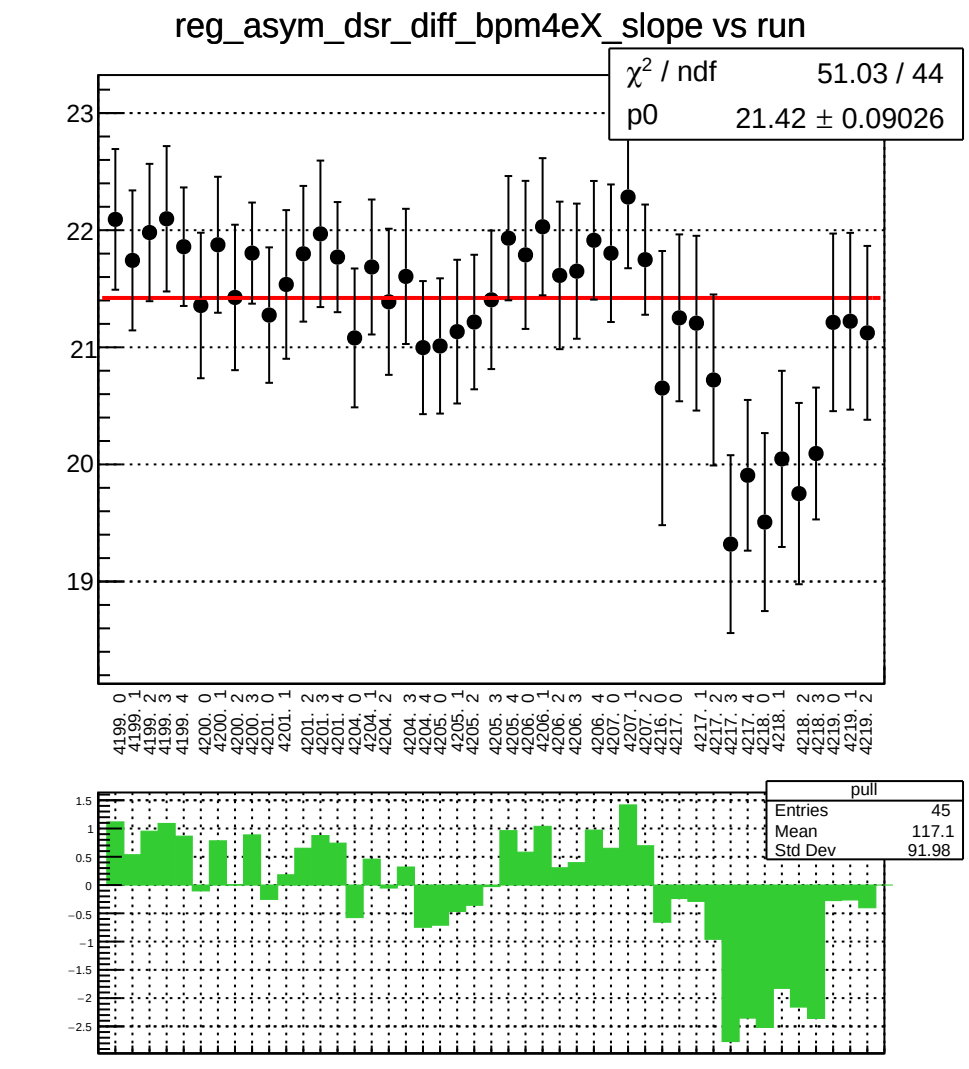

pull1D
Entries 45
Mean 0.005923
Std Dev 0.5242

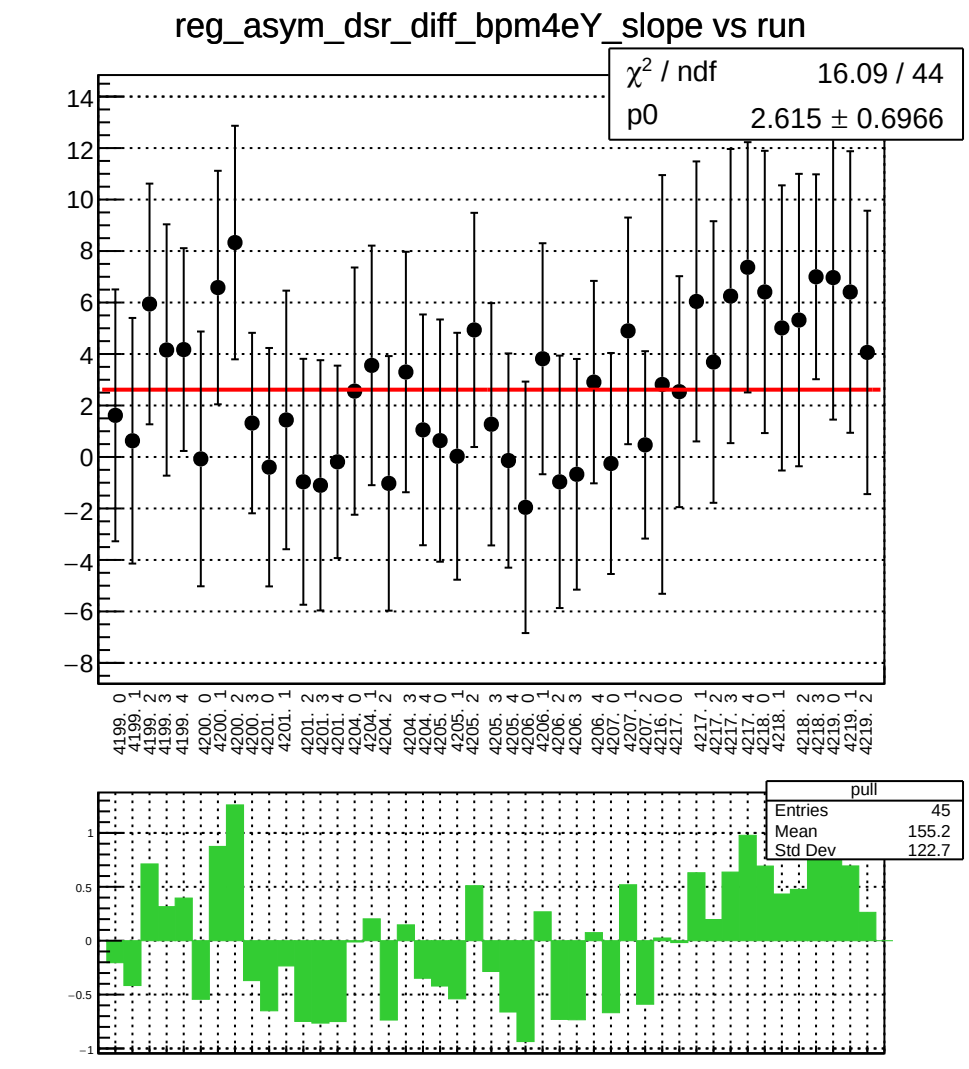

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 215.6 / 44
p0 −43.46 ± 0.162
−40
−42
−44
−46
−48
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −44.17
Std Dev 68.96
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.3257
Std Dev 2.165
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

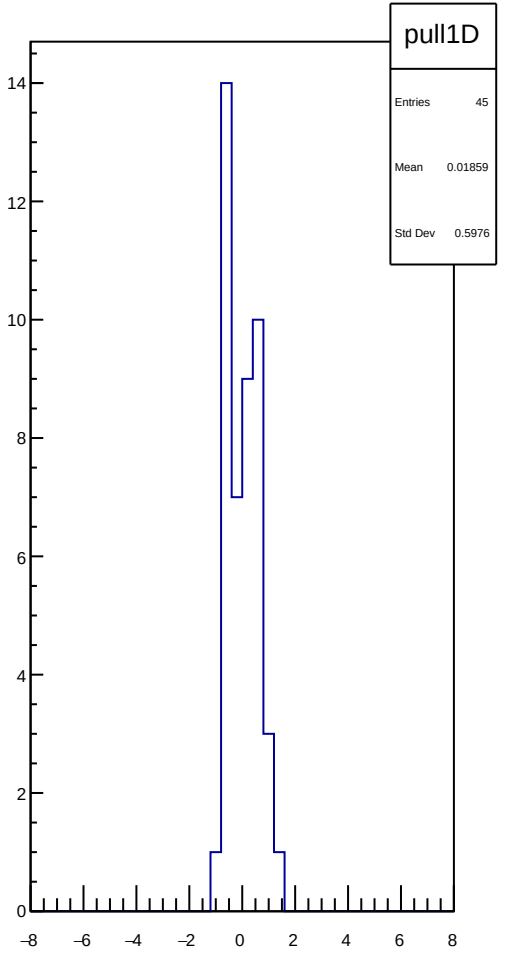

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 197.4 / 44
p0 −34.21 ± 0.4989
pull
Entries 45
Mean 182.4
Std Dev 155.7
pull1D
Entries 45
Mean −0.1297
Std Dev 2.091

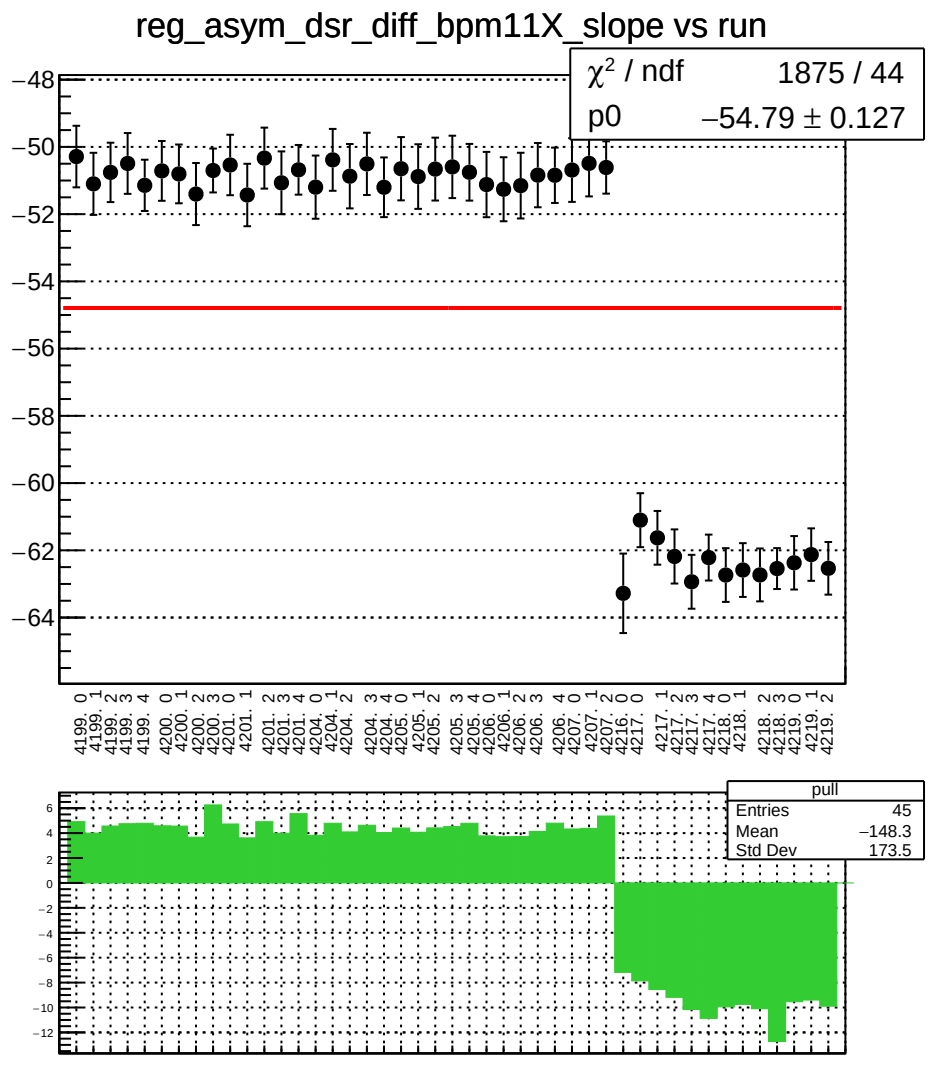

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 11.39 / 44
p0 7.22 ± 0.4172
pull
Entries 45
Mean −174.5
Std Dev 174.1

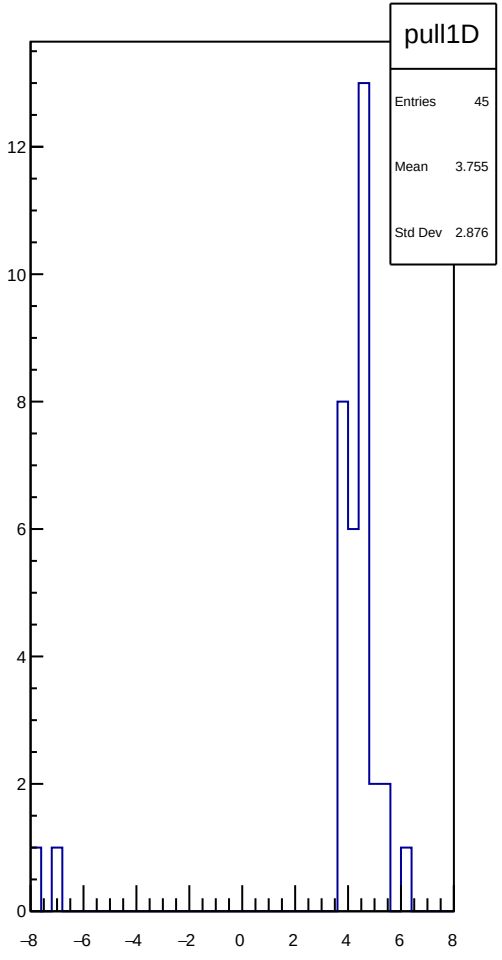

pull1D
Entries 45
Mean −0.003727
Std Dev 0.5032

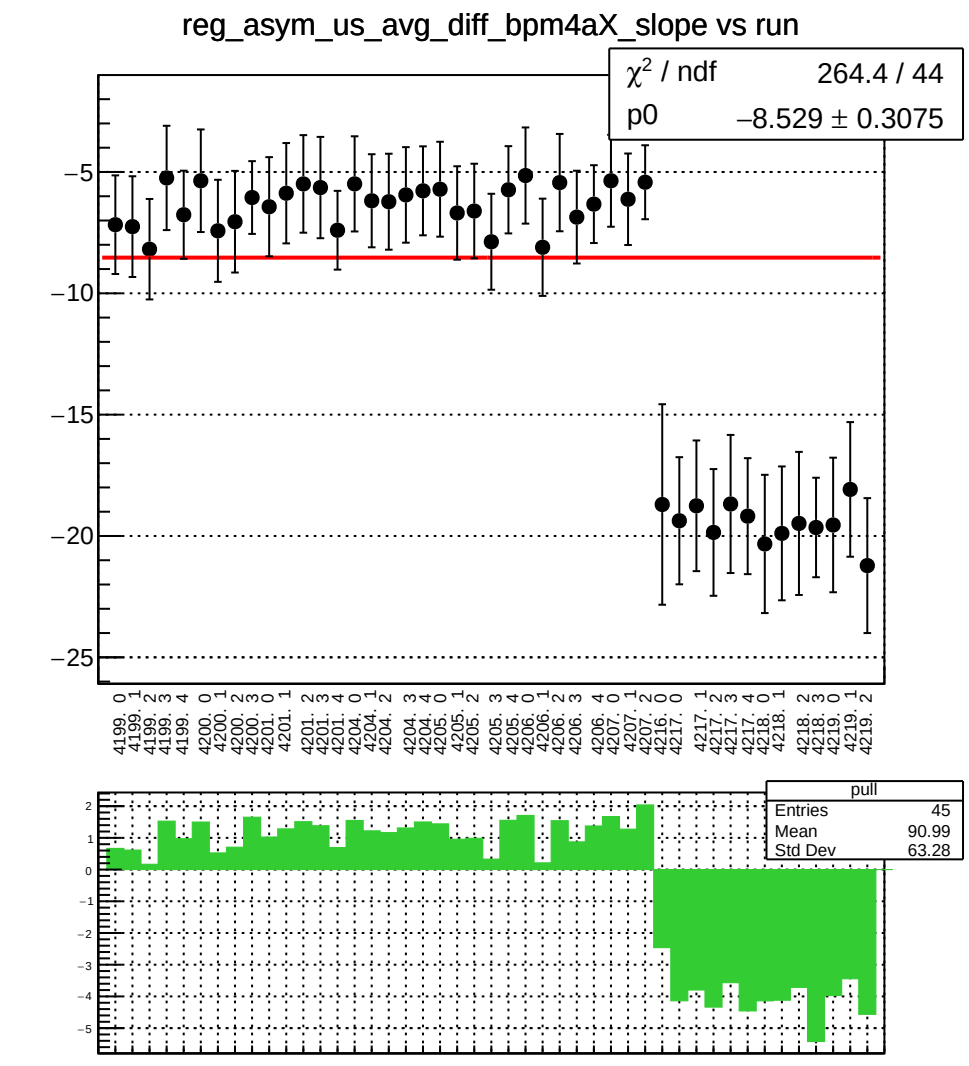

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 51.03 / 44
p0 21.42 ± 0.09026
23
22
21
20
19
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 117.1
Std Dev 91.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.0862
Std Dev 1.061
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

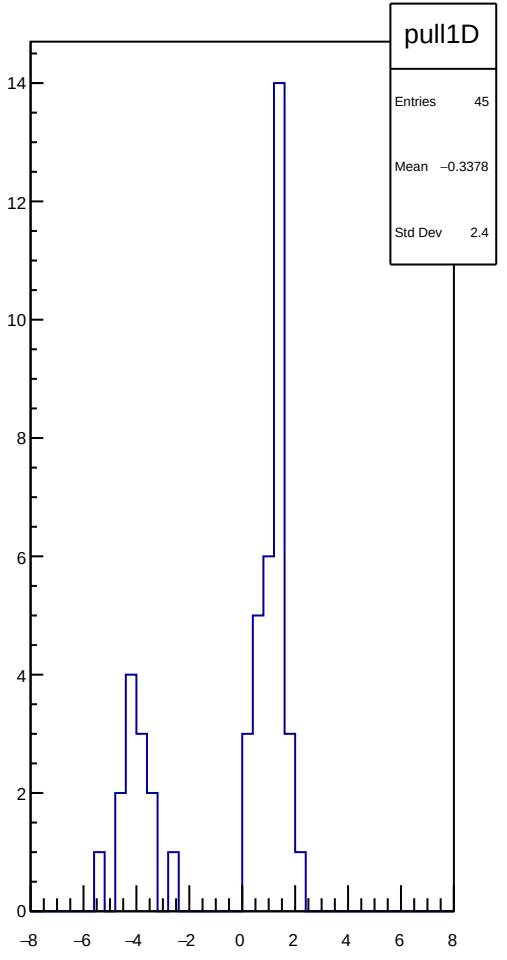

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 16.09 / 44
p0 2.615 ± 0.6966
pull
Entries 45
Mean 155.2
Std Dev 122.7

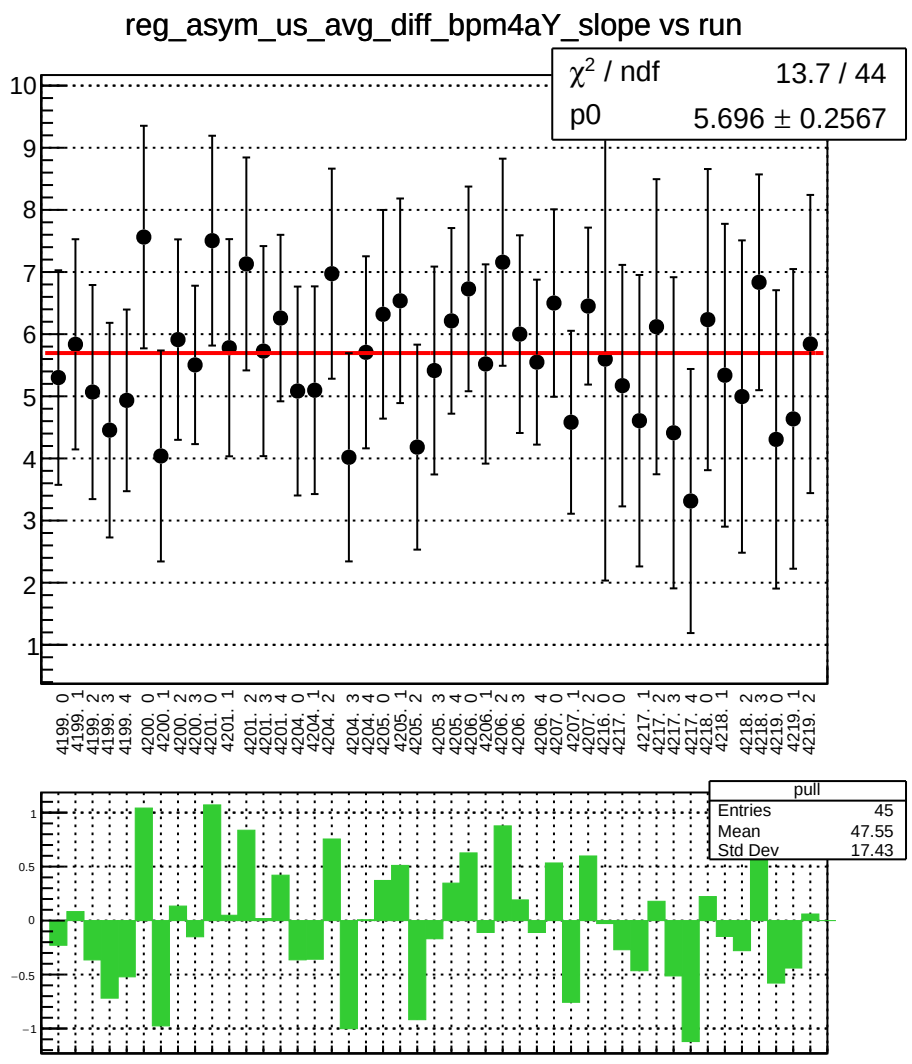

pull1D
Entries 45
Mean 0.01859
Std Dev 0.5976

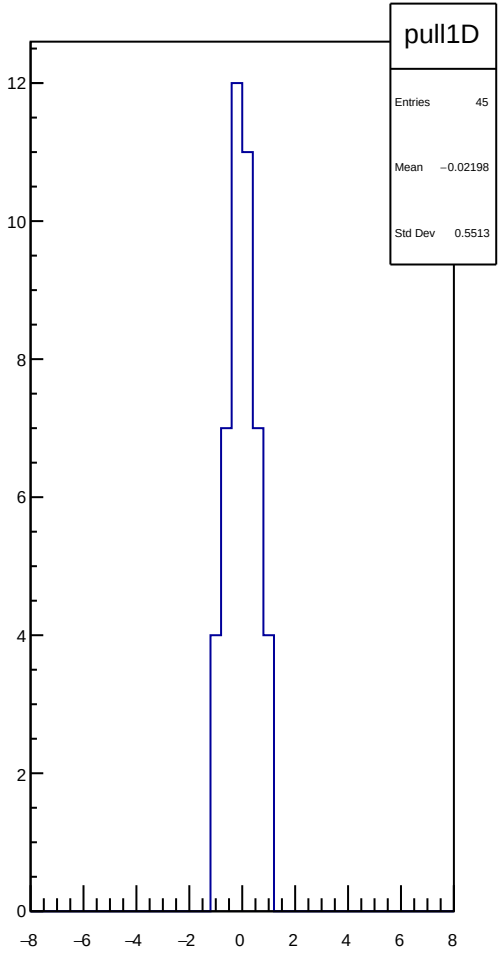

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 1875 / 44
p0 −54.79 ± 0.127
pull
Entries 45
Mean −148.3
Std Dev 173.5

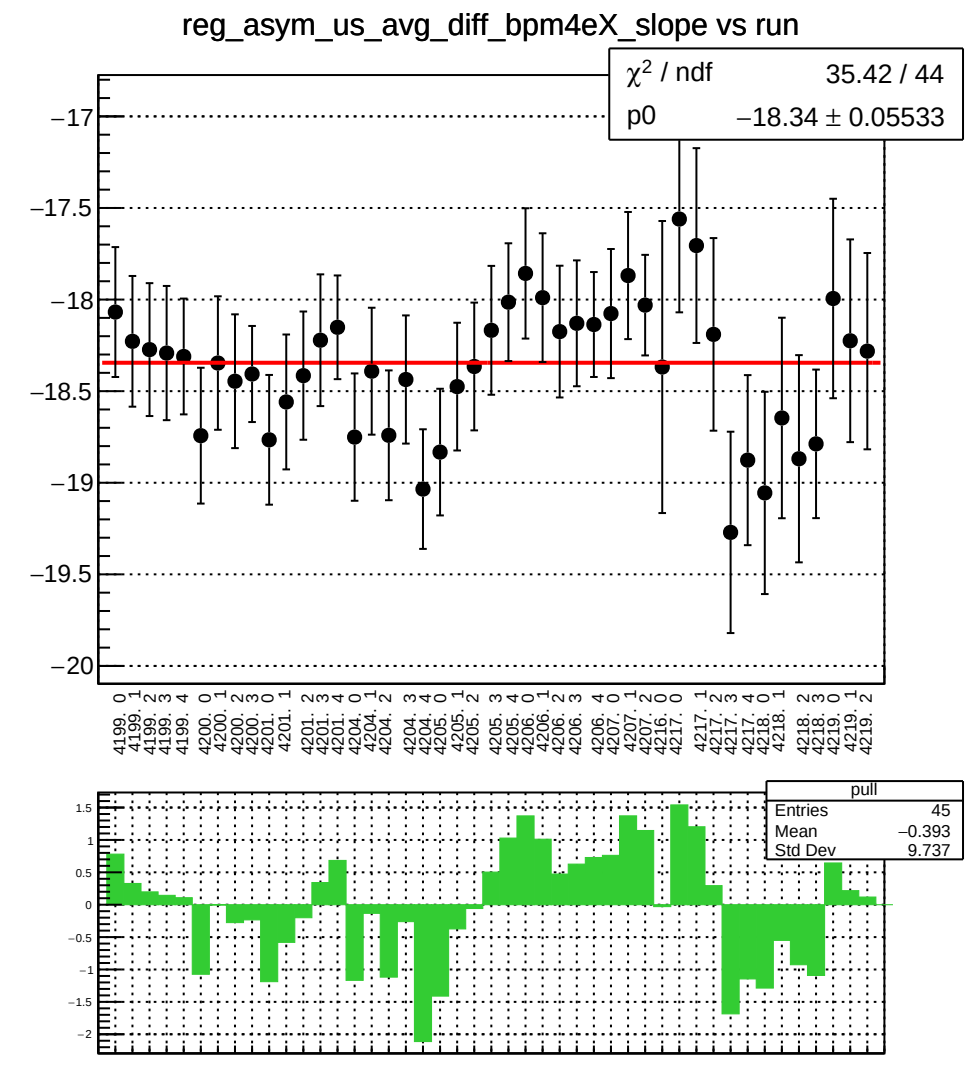

pull1D
Entries 45
Mean 3.755
Std Dev 2.876

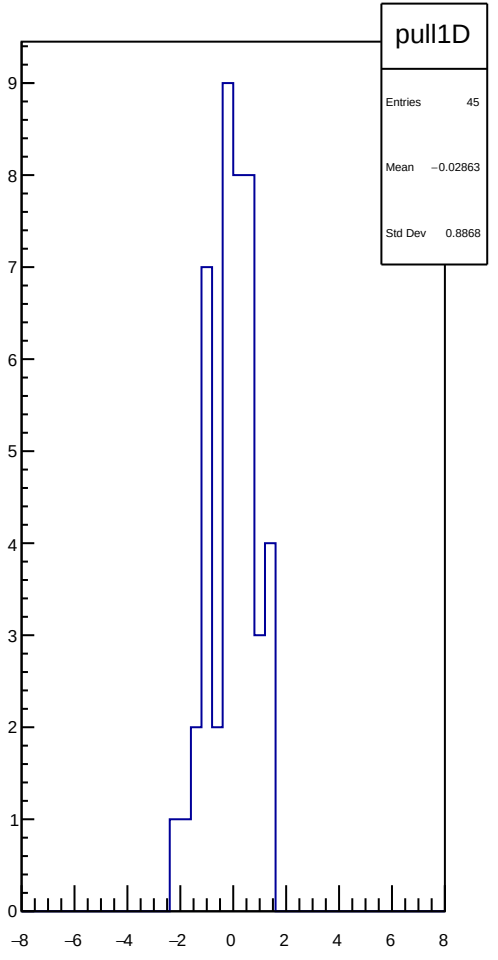

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 264.4 / 44
p0 −8.529 ± 0.3075
pull
Entries 45
Mean 90.99
Std Dev 63.28

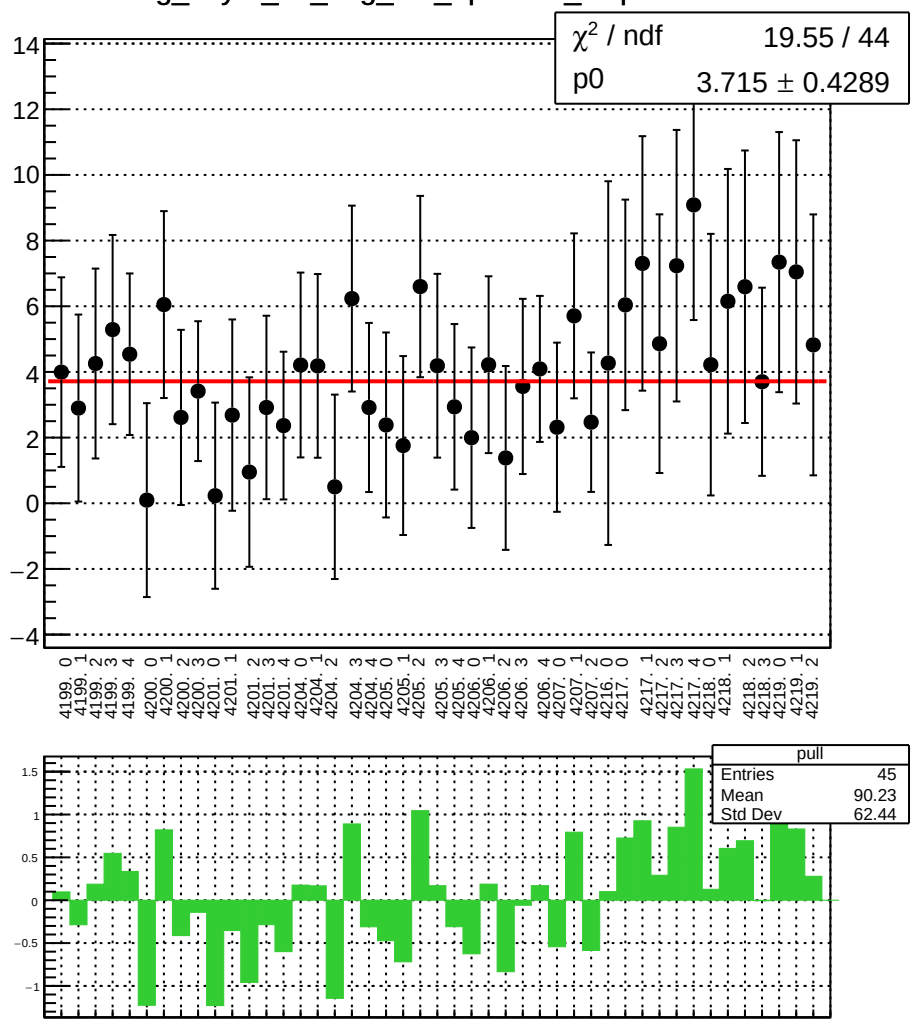

pull1D
Entries 45
Mean −0.3378
Std Dev 2.4

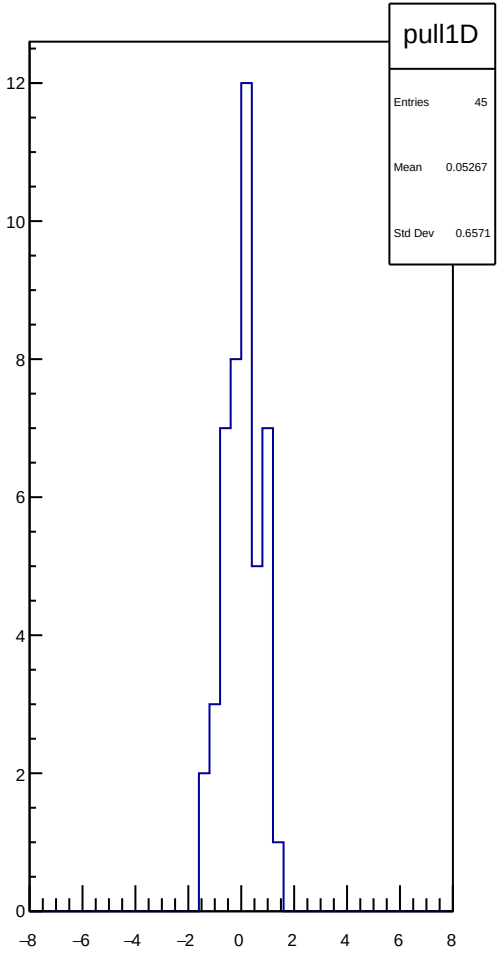

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.7 / 44
p0 5.696 ± 0.2567
pull
Entries 45
Mean 47.55
Std Dev 17.43

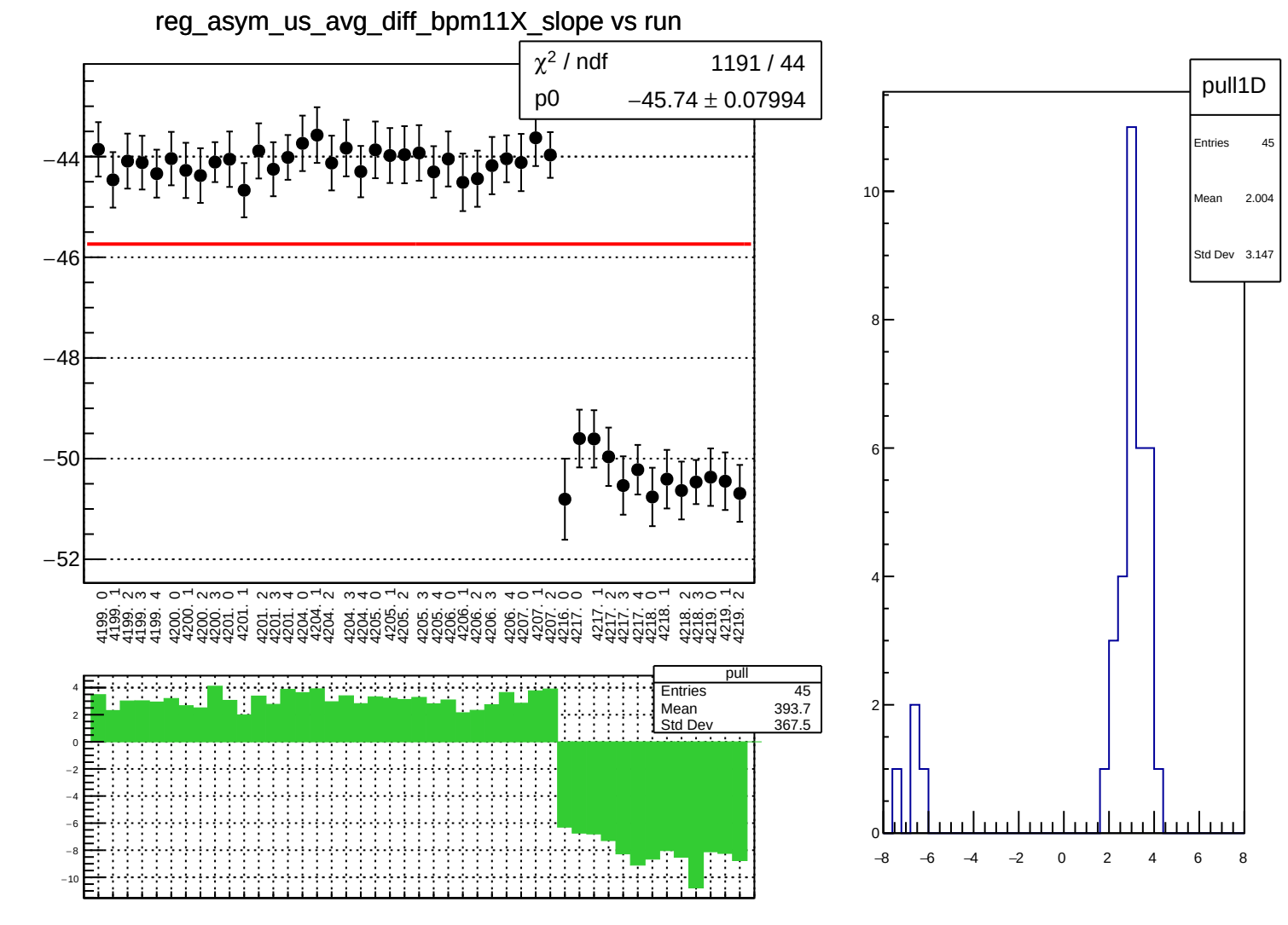

pull1D
Entries 45
Mean −0.02198
Std Dev 0.5513

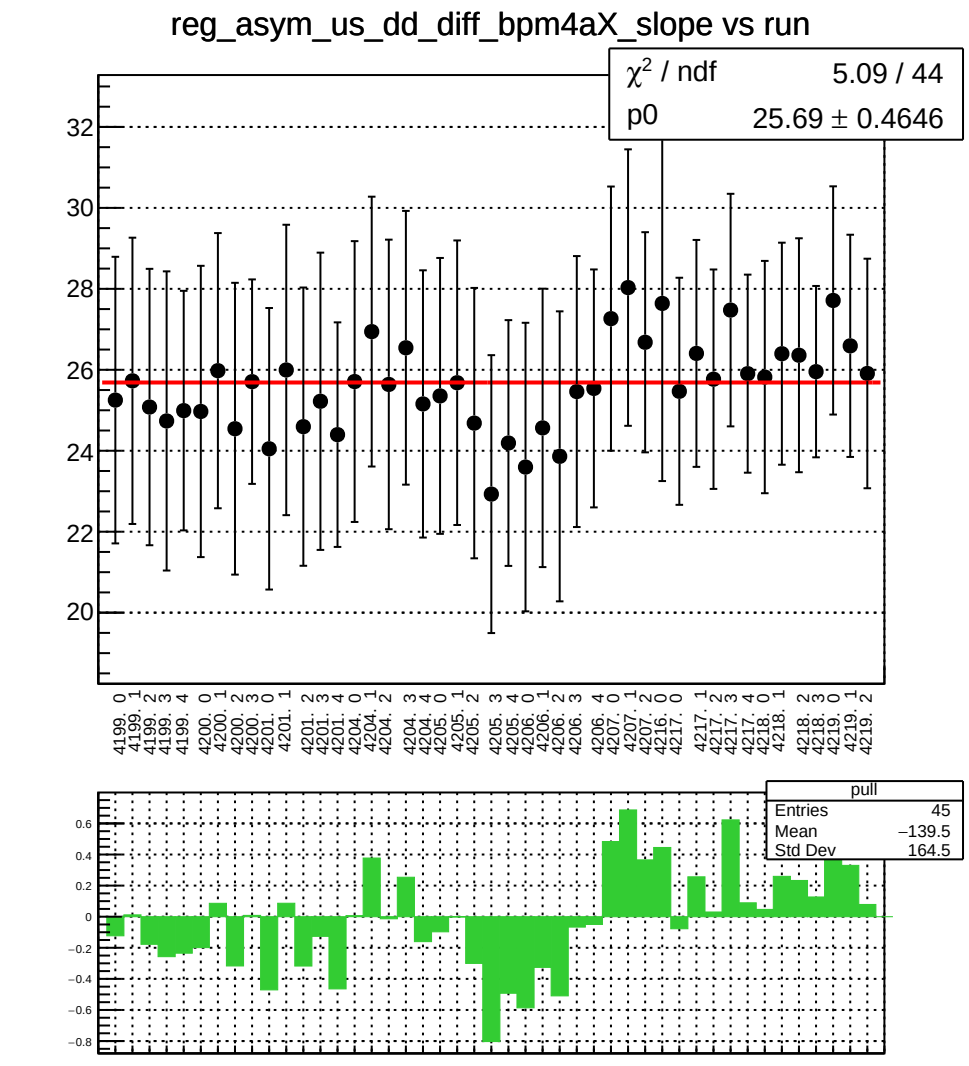

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.42 / 44
p0 −18.34 ± 0.05533
pull
Entries 45
Mean −0.393
Std Dev 9.737

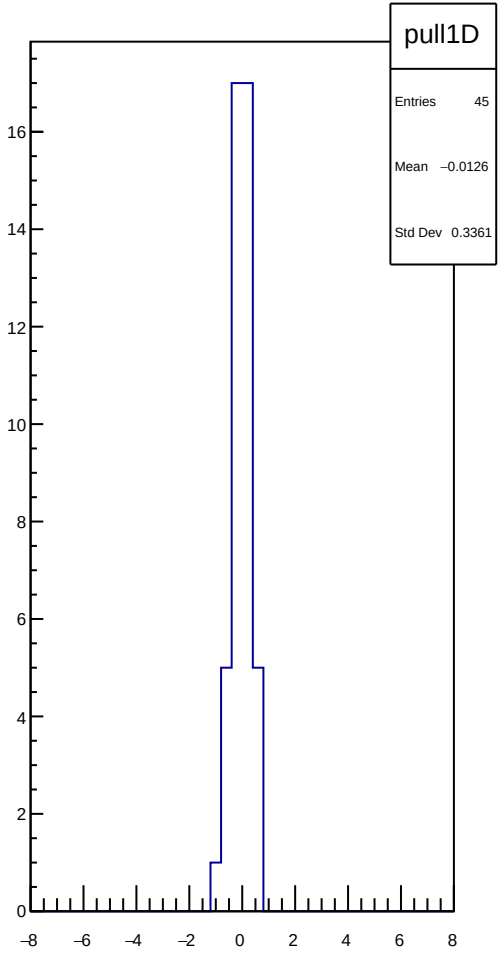

pull1D
Entries 45
Mean −0.02863
Std Dev 0.8868

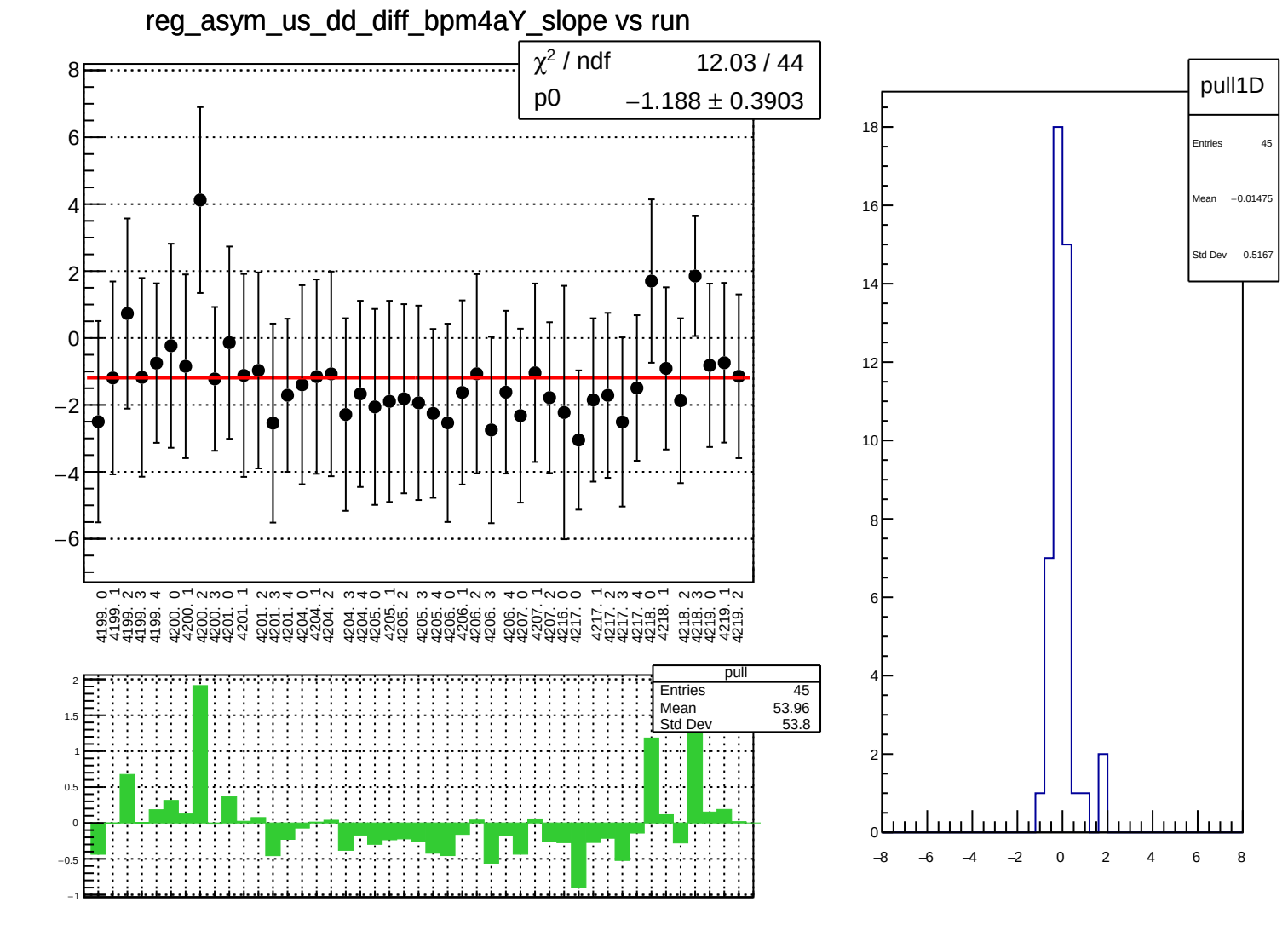

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.55 / 44
p0 3.715 ± 0.4289
pull
Entries 45
Mean 90.23
Std Dev 62.44

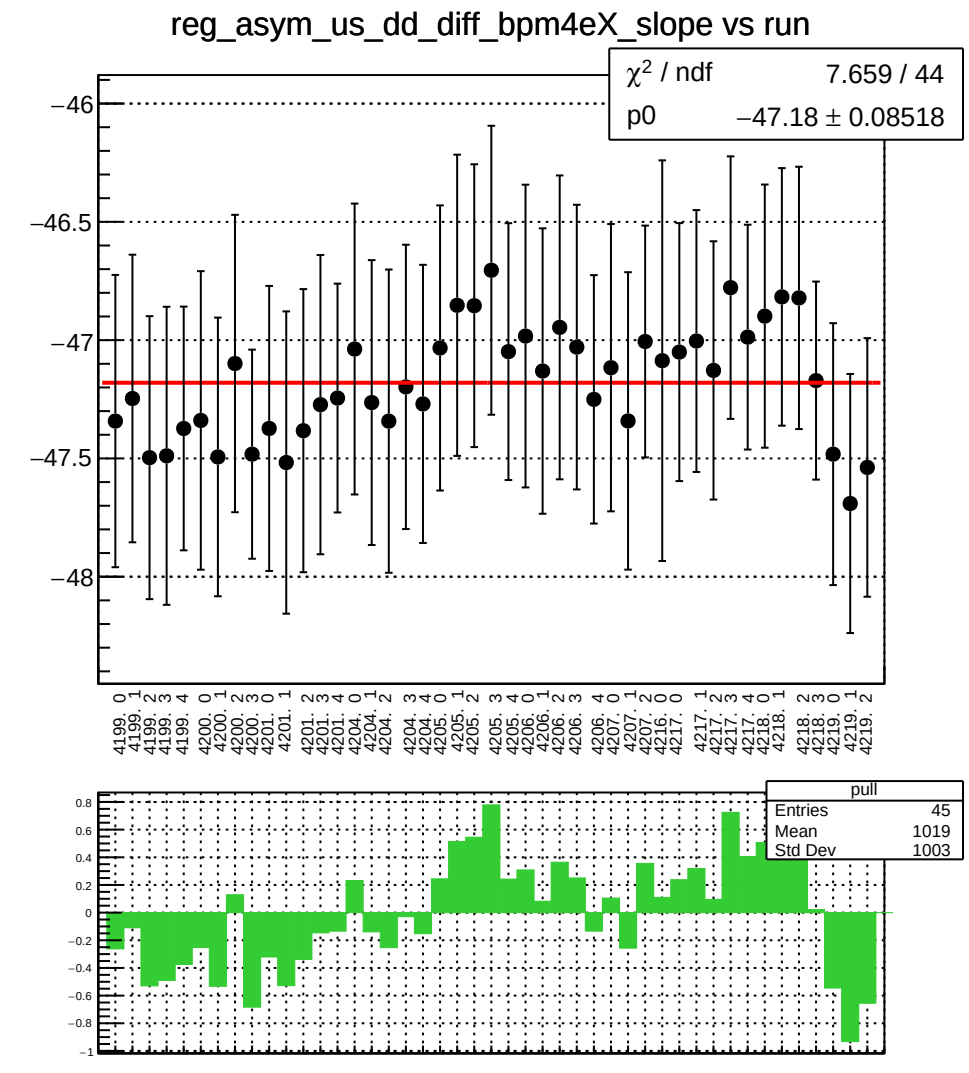

pull1D
Entries 45
Mean 0.05267
Std Dev 0.6571

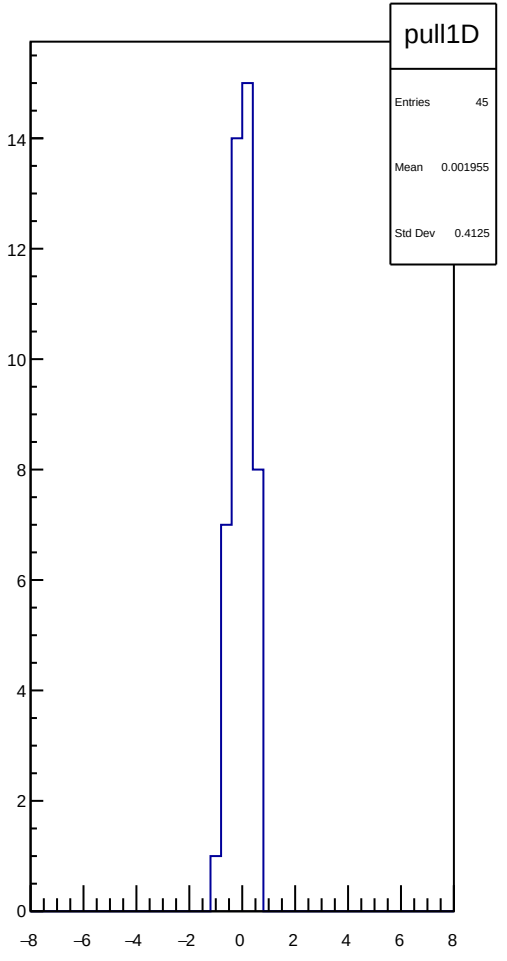

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 1191 / 44
p0 −45.74 ± 0.07994
−44
−46
−48
−50
−52
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 393.7
Std Dev 367.5
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 45
Mean 2.004
Std Dev 3.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

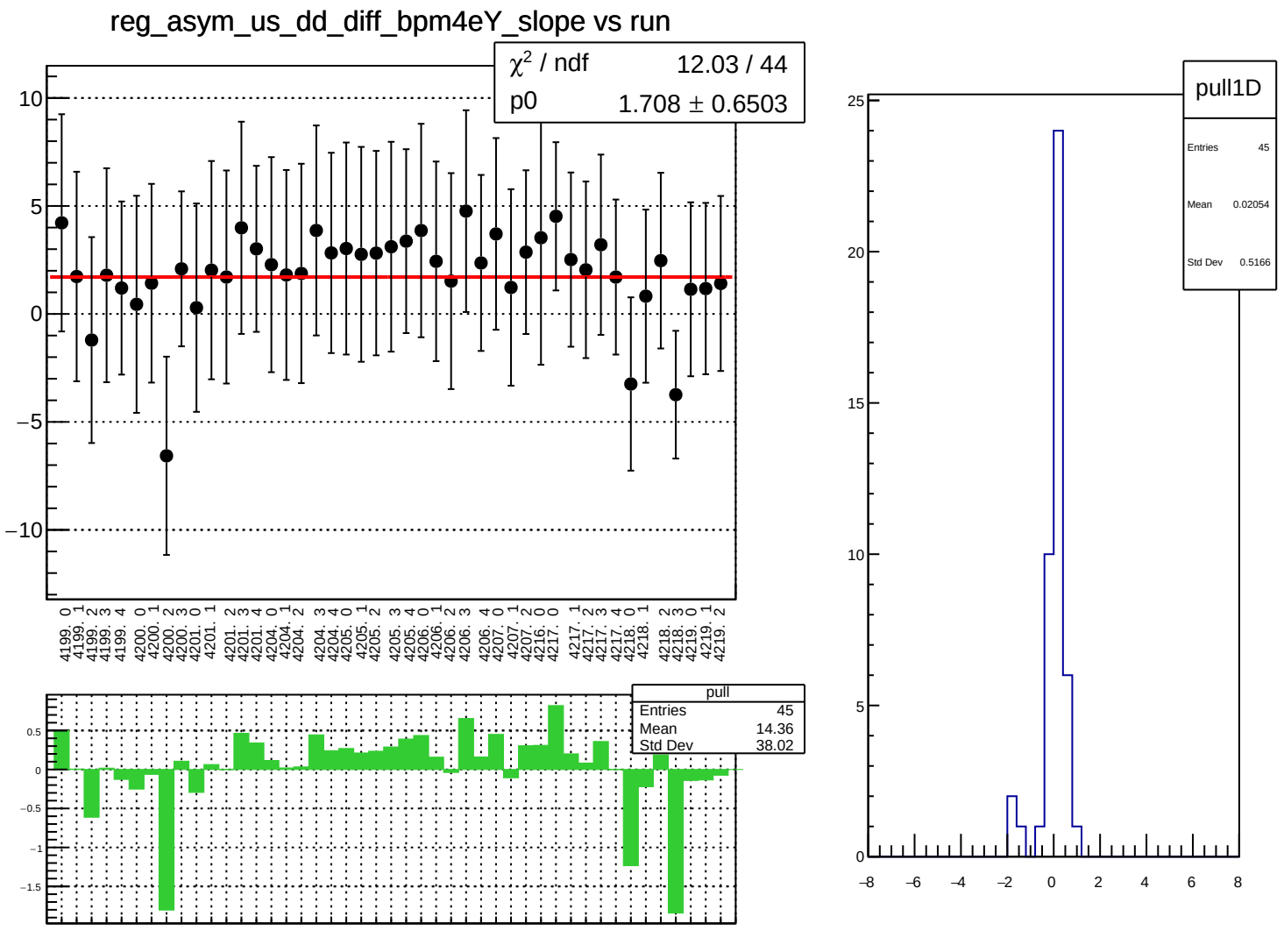

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.09 / 44
p0 25.69 ± 0.4646
pull
Entries 45
Mean −139.5
Std Dev 164.5

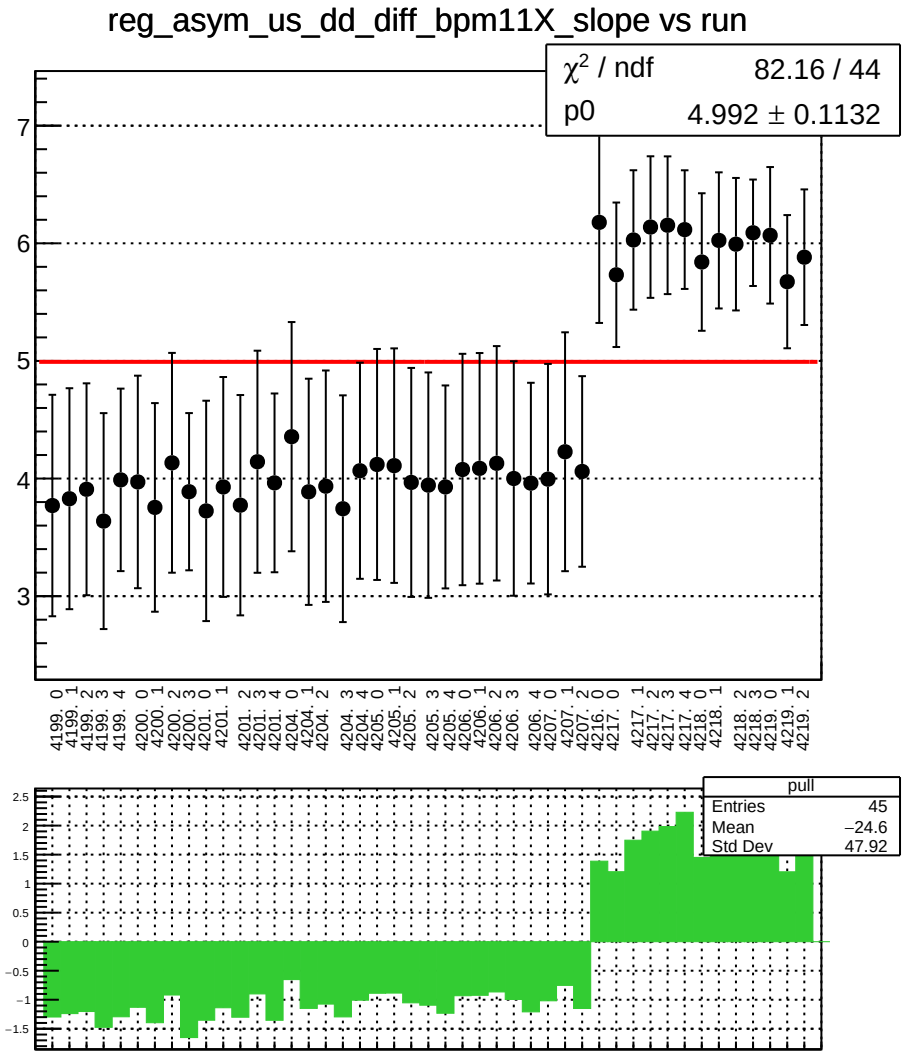

pull1D
Entries 45
Mean −0.0126
Std Dev 0.3361

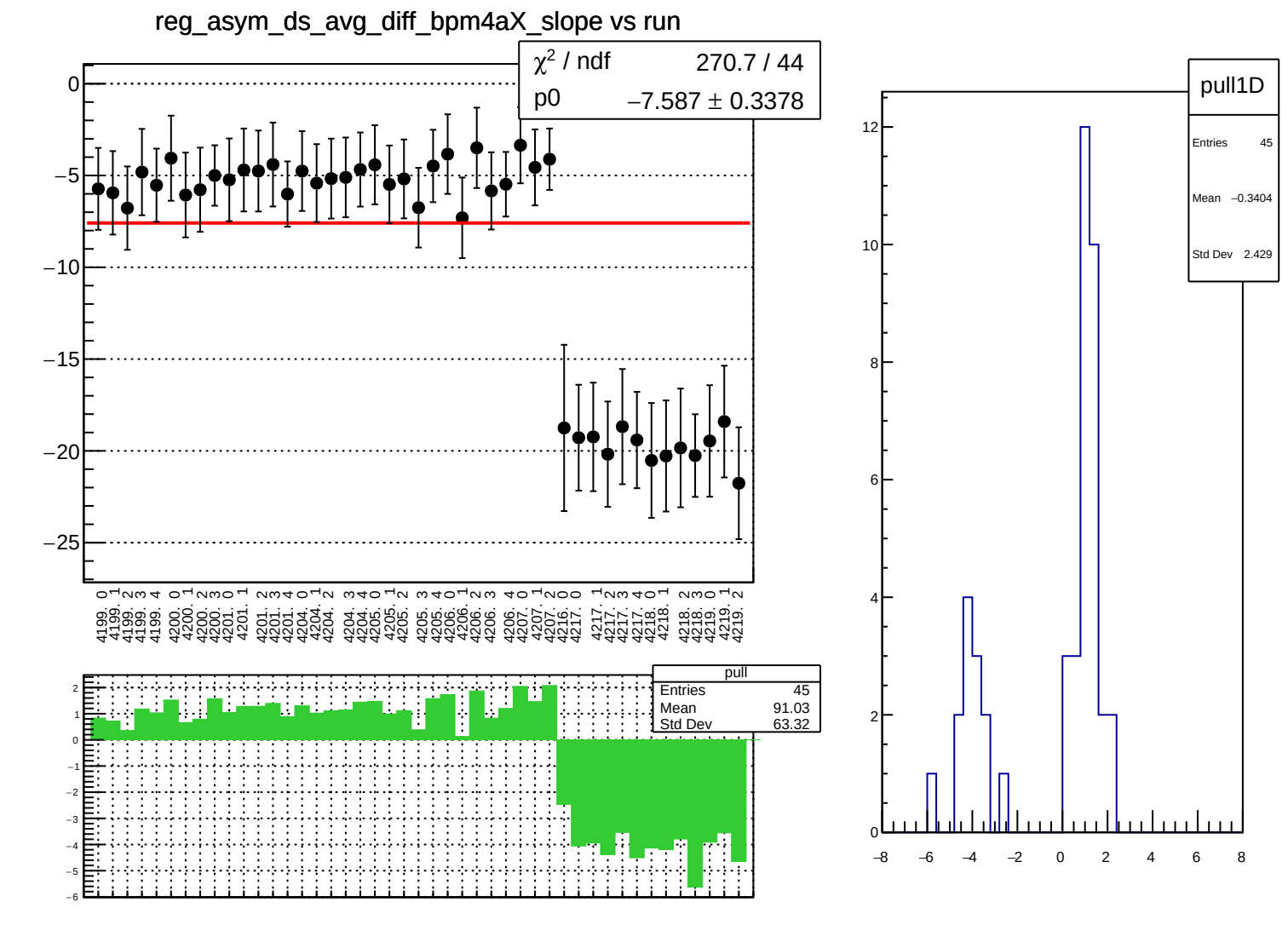

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.03 / 44
p0 −1.188 ± 0.3903
pull
Entries 45
Mean 53.96
Std Dev 53.8
pull1D
Entries 45
Mean −0.01475
Std Dev 0.5167

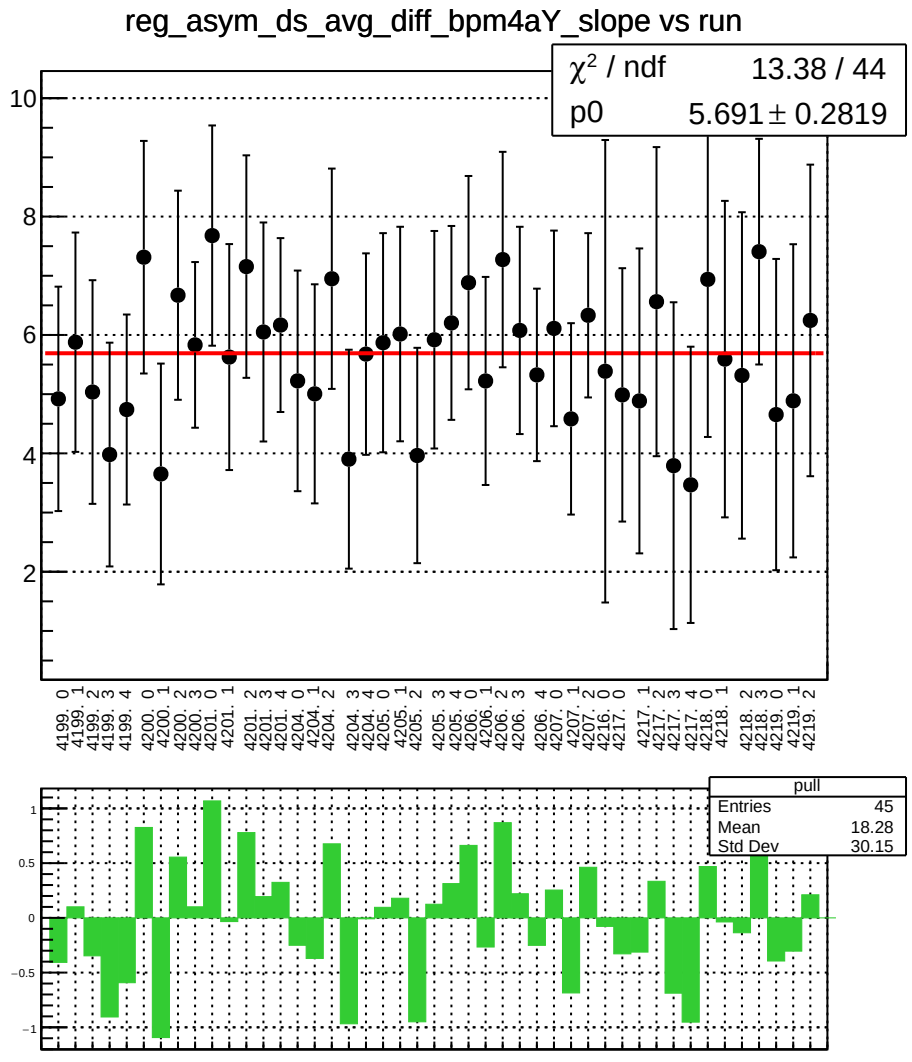

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.659 / 44
p0 −47.18 ± 0.08518
−46
−46.5
−47
−47.5
−48
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 1019
Std Dev 1003
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

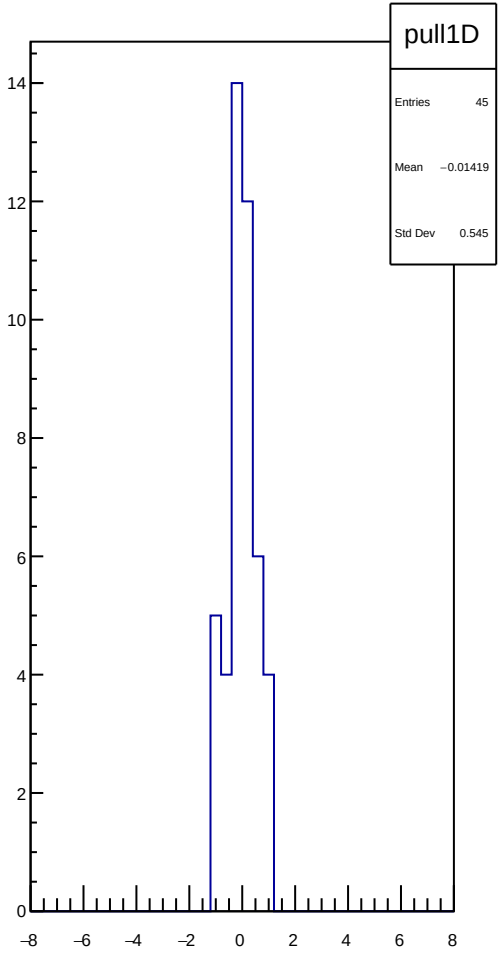

pull1D
Entries 45
Mean 0.001955
Std Dev 0.4125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

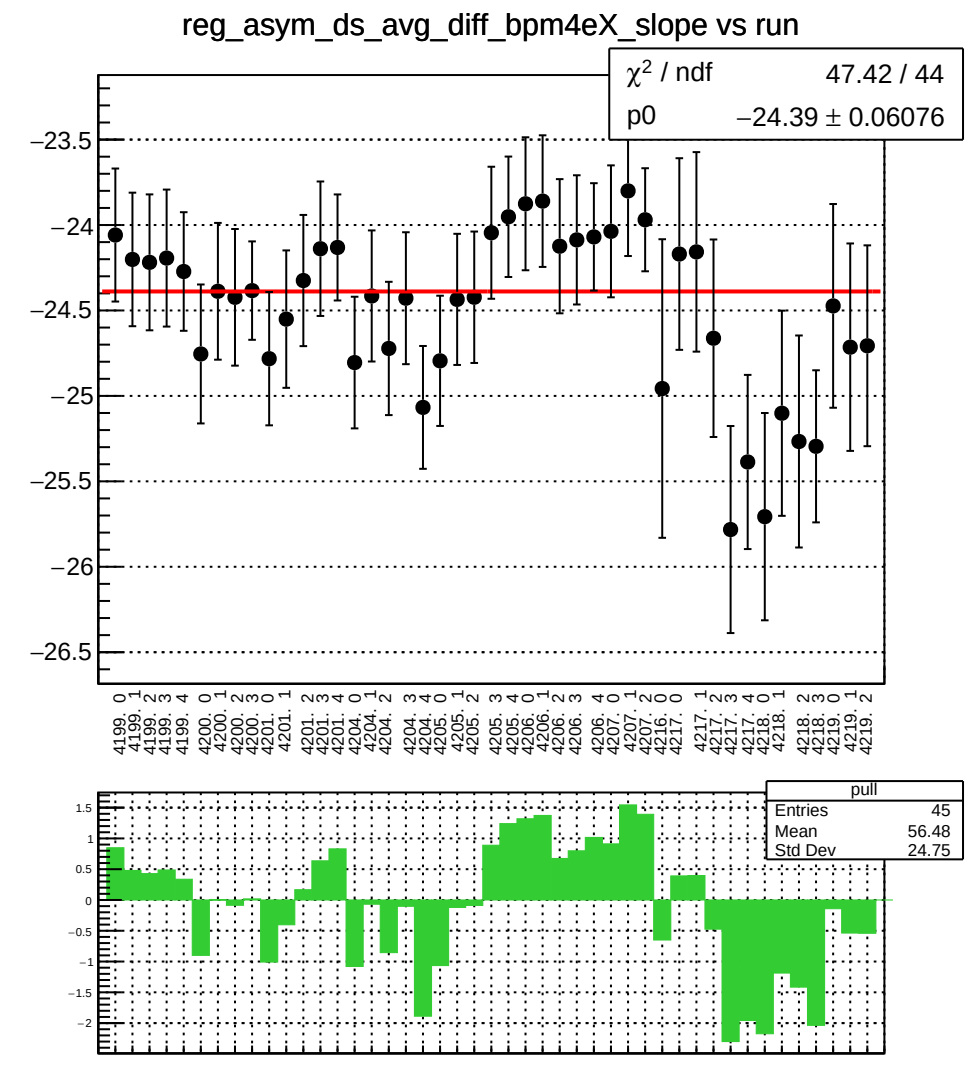

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.03 / 44
p0 1.708 ± 0.6503
10
5
0
−5
−10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 14.36
Std Dev 38.02
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02054
Std Dev 0.5166
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

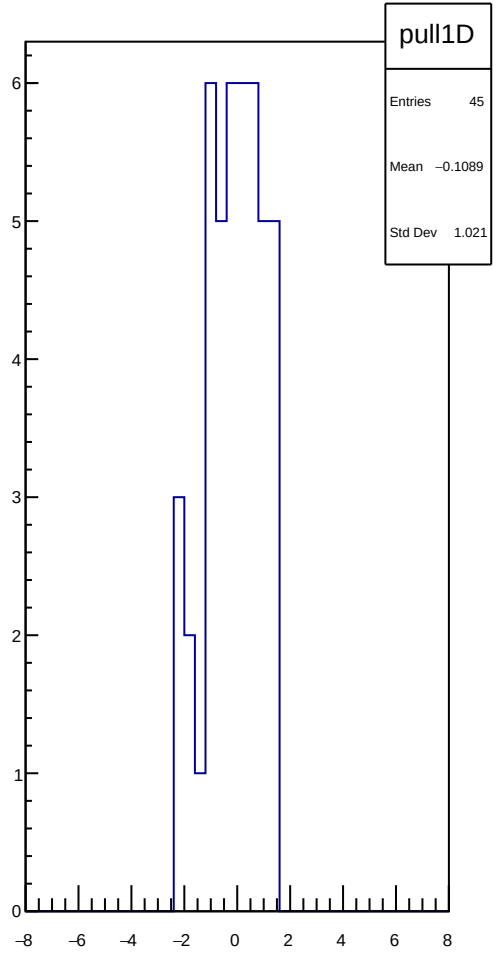

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 82.16 / 44
p0 4.992 ± 0.1132
pull
Entries 45
Mean −24.6
Std Dev 47.92
pull1D
Entries 45
Mean −0.2962
Std Dev 1.318

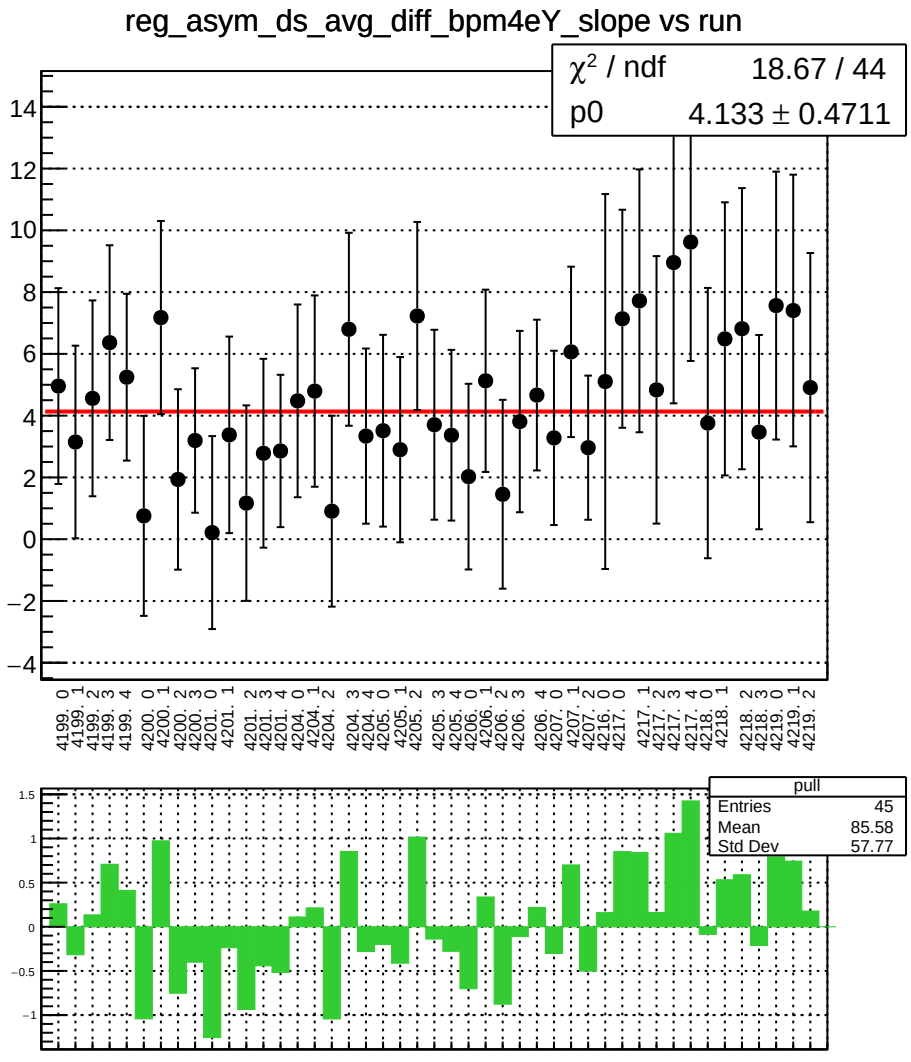

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 270.7 / 44
p0 −7.587 ± 0.3378
pull
Entries 45
Mean 91.03
Std Dev 63.32
pull1D
Entries 45
Mean −0.3404
Std Dev 2.429

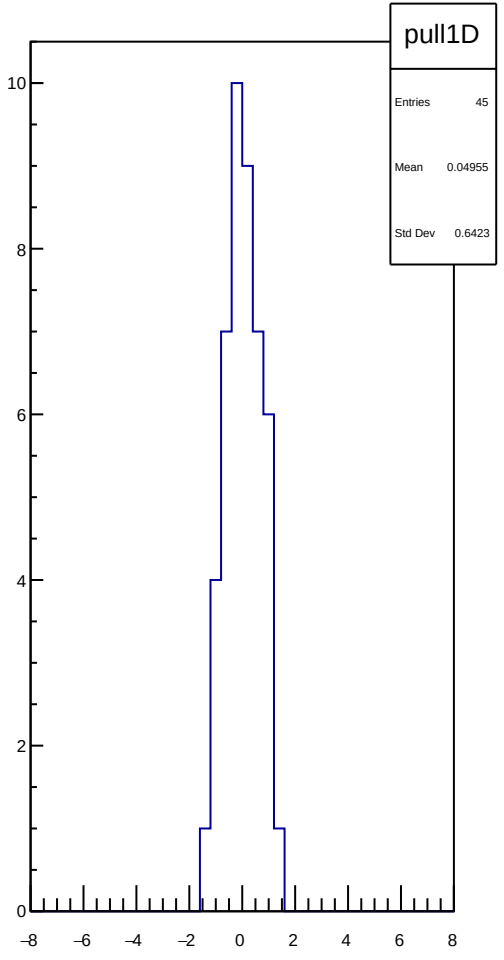

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.38 / 44
p0 5.691 ± 0.2819
pull
Entries 45
Mean 18.28
Std Dev 30.15

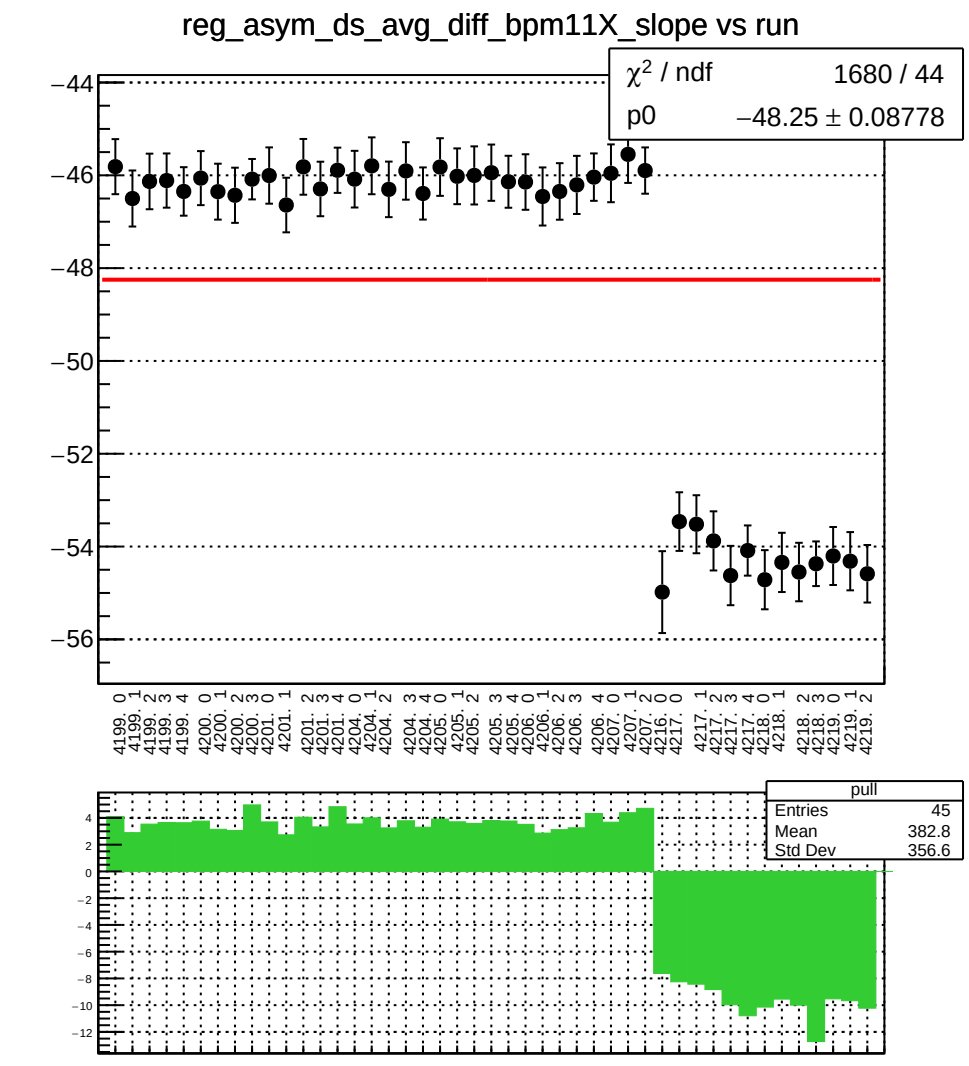

pull1D
Entries 45
Mean −0.01419
Std Dev 0.545

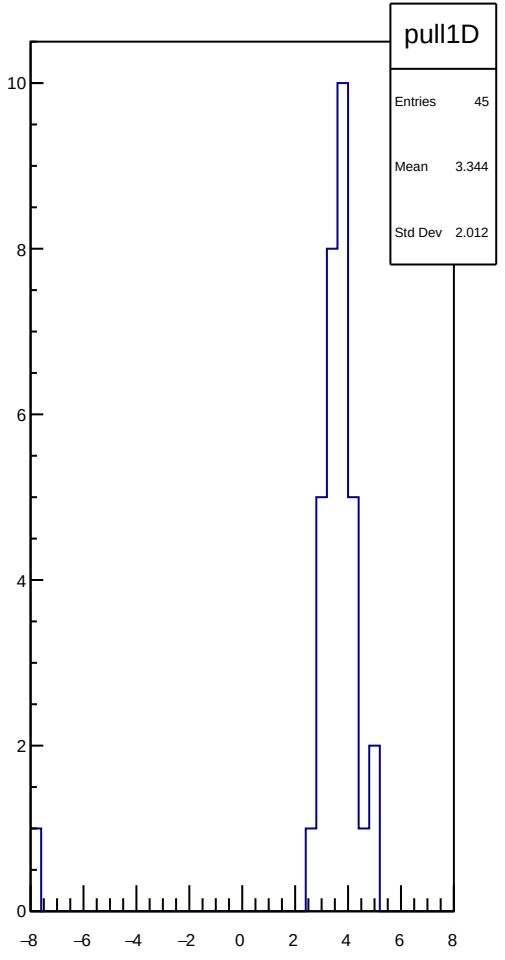

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.42 / 44
p0 −24.39 ± 0.06076
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 56.48
Std Dev 24.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

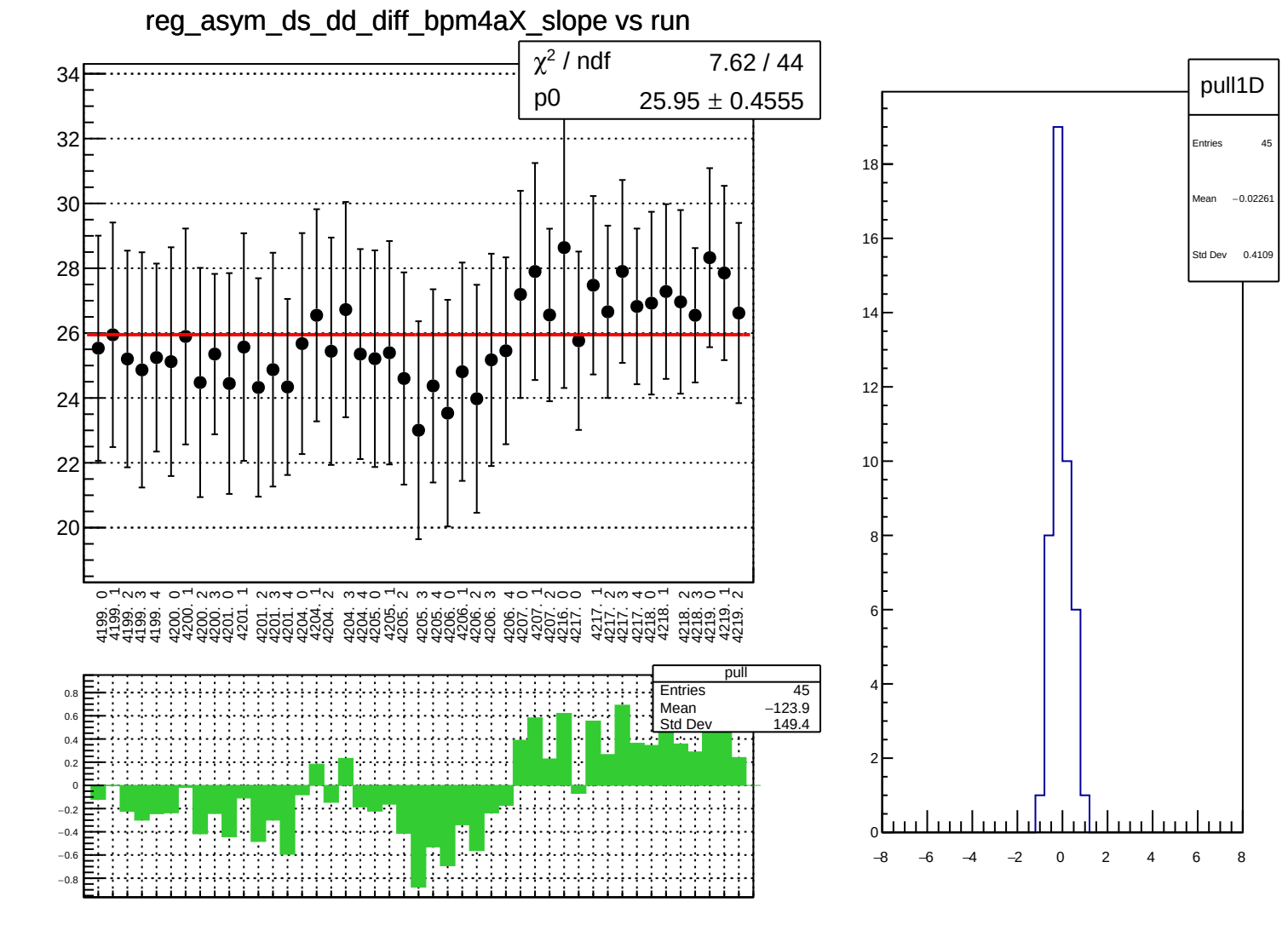

pull1D
Entries 45
Mean −0.1089
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

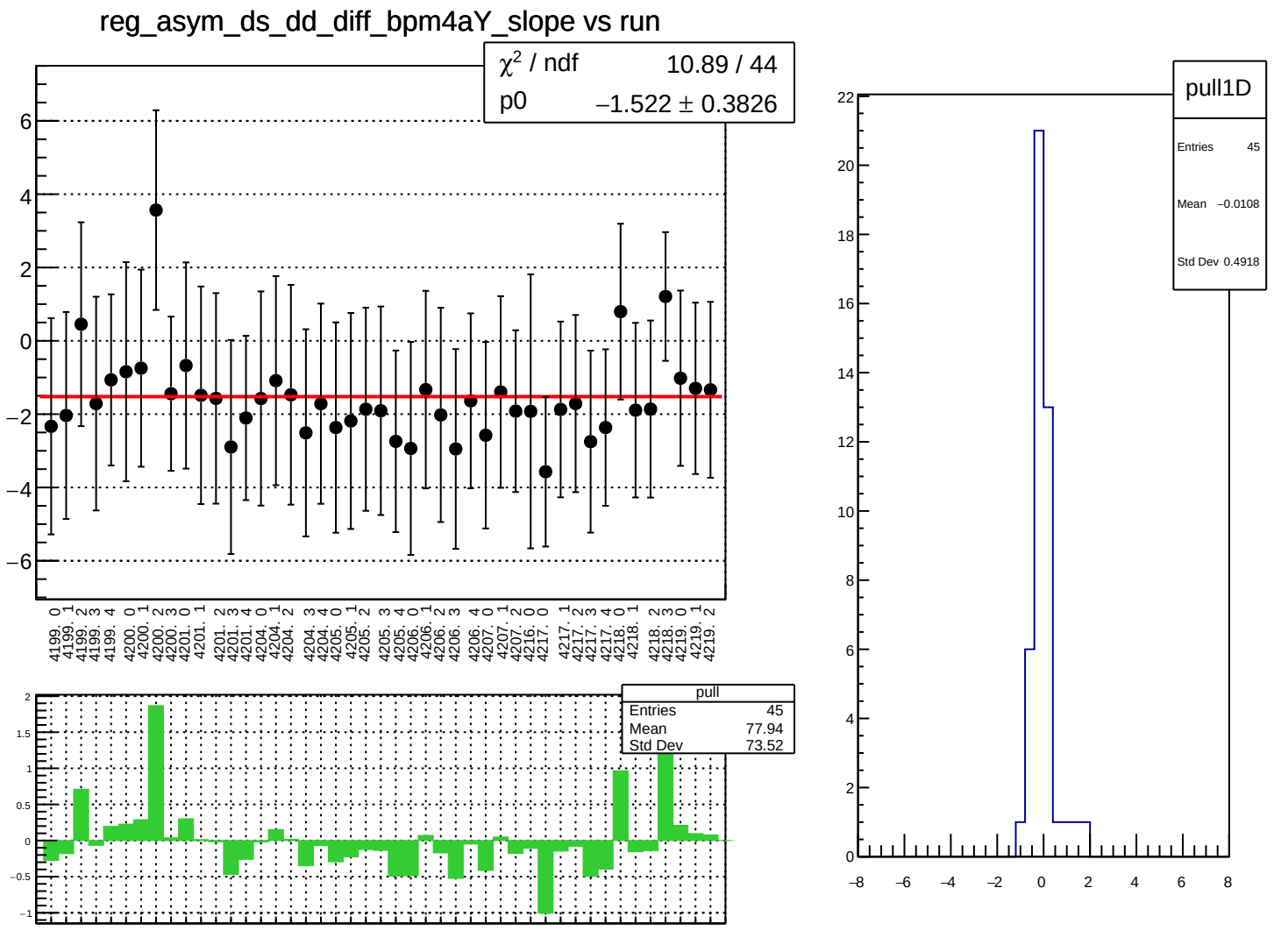

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.67 / 44
p0 4.133 ± 0.4711
pull
Entries 45
Mean 85.58
Std Dev 57.77

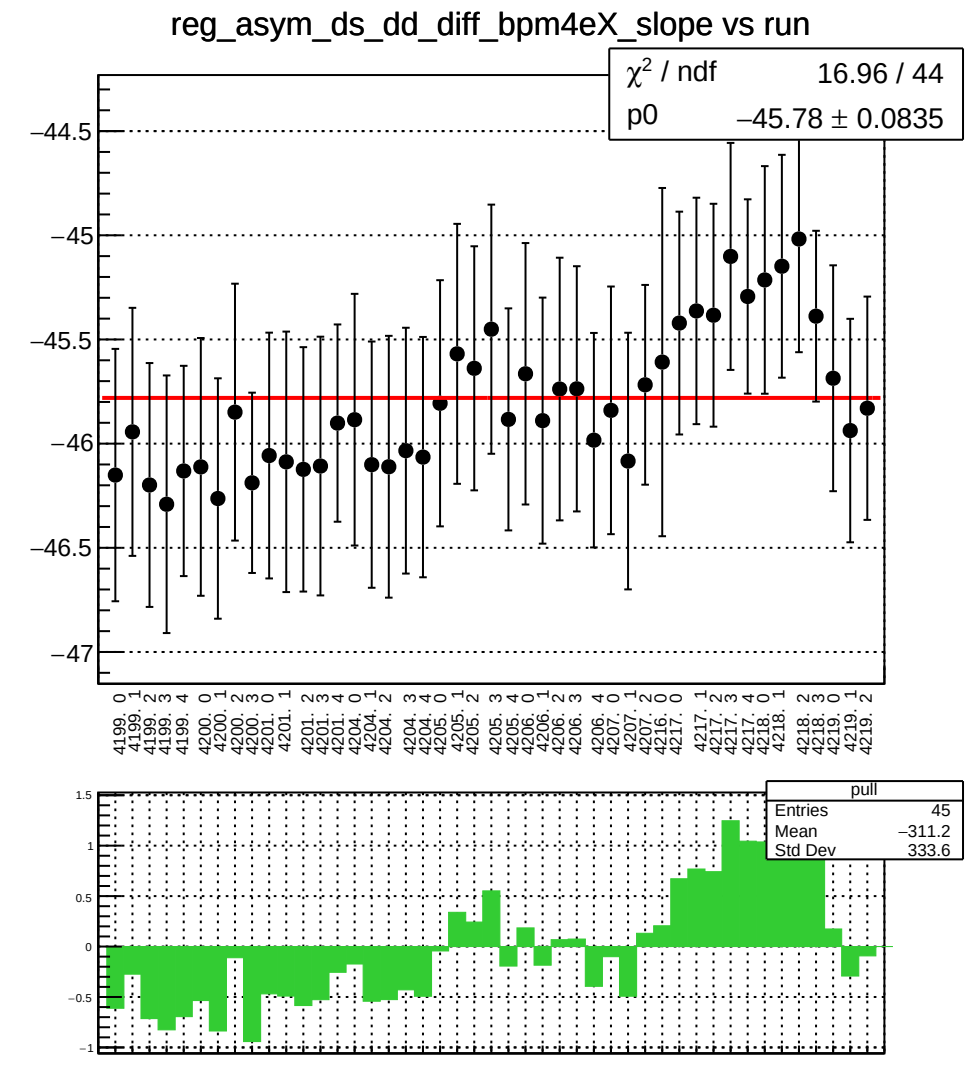

pull1D
Entries 45
Mean 0.04955
Std Dev 0.6423

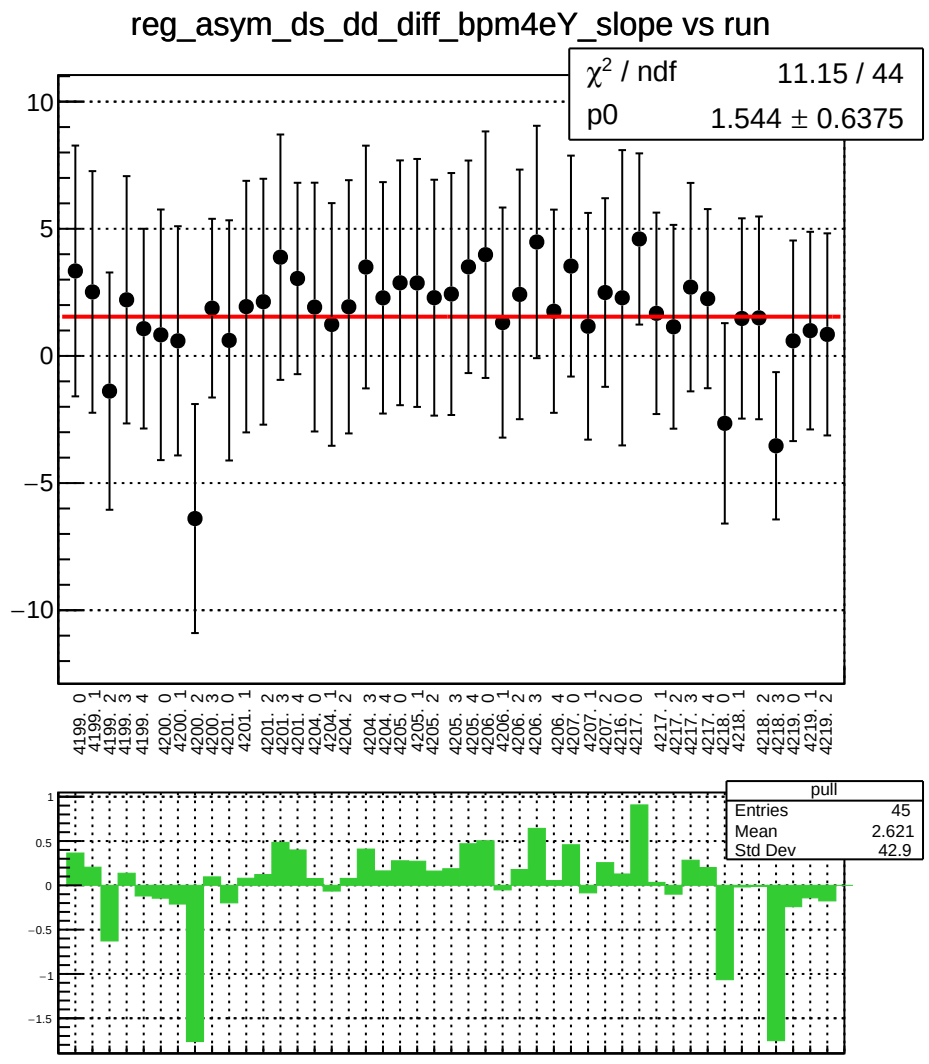

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 1680 / 44
p0 −48.25 ± 0.08778
pull
Entries 45
Mean 382.8
Std Dev 356.6

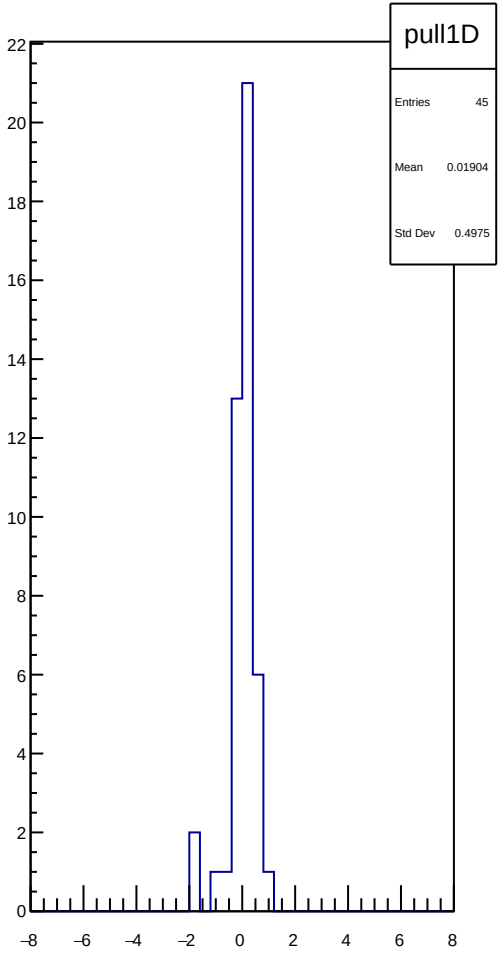

pull1D
Entries 45
Mean 3.344
Std Dev 2.012

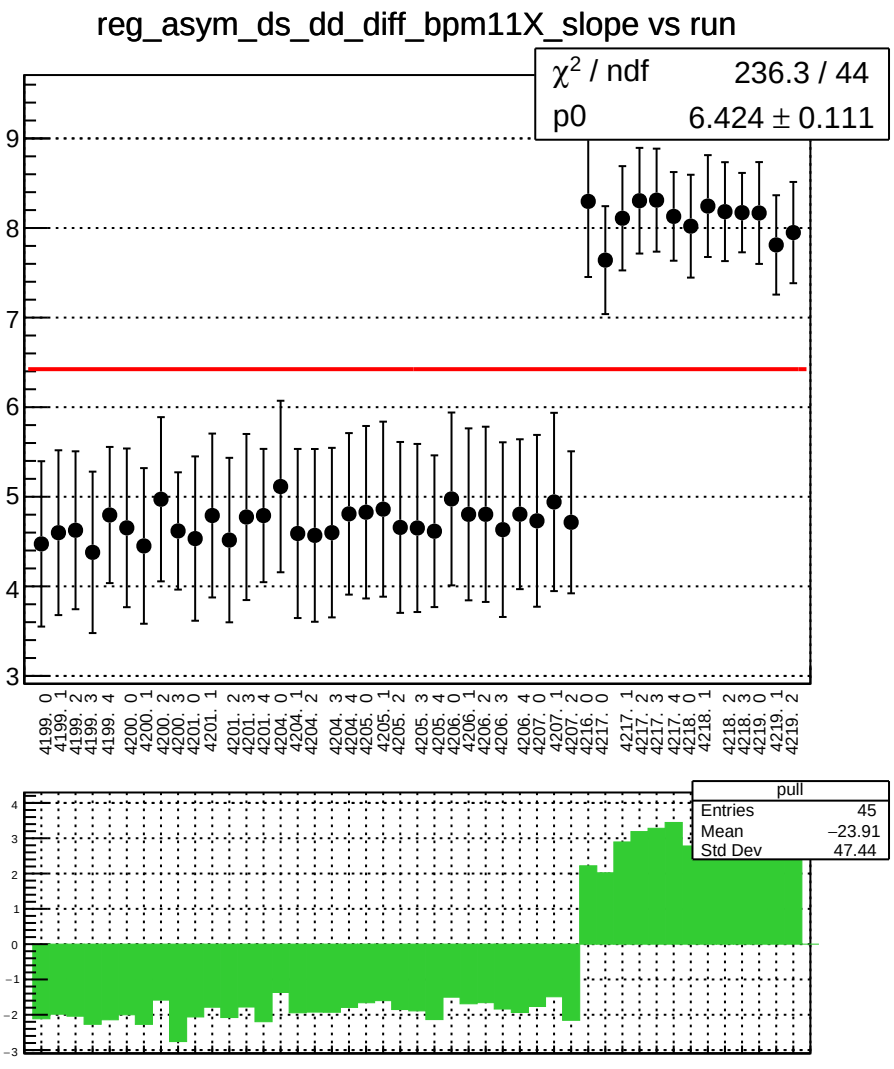

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.62 / 44
p0 25.95 ± 0.4555
pull
Entries 45
Mean −123.9
Std Dev 149.4
pull1D
Entries 45
Mean −0.02261
Std Dev 0.4109

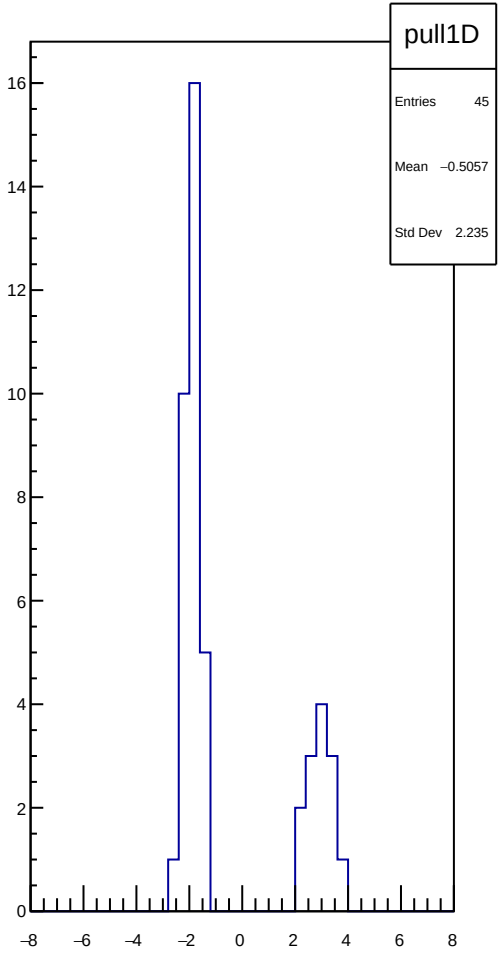

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.89 / 44
p0 −1.522 ± 0.3826
pull
Entries 45
Mean 77.94
Std Dev 73.52
pull1D
Entries 45
Mean −0.0108
Std Dev 0.4918

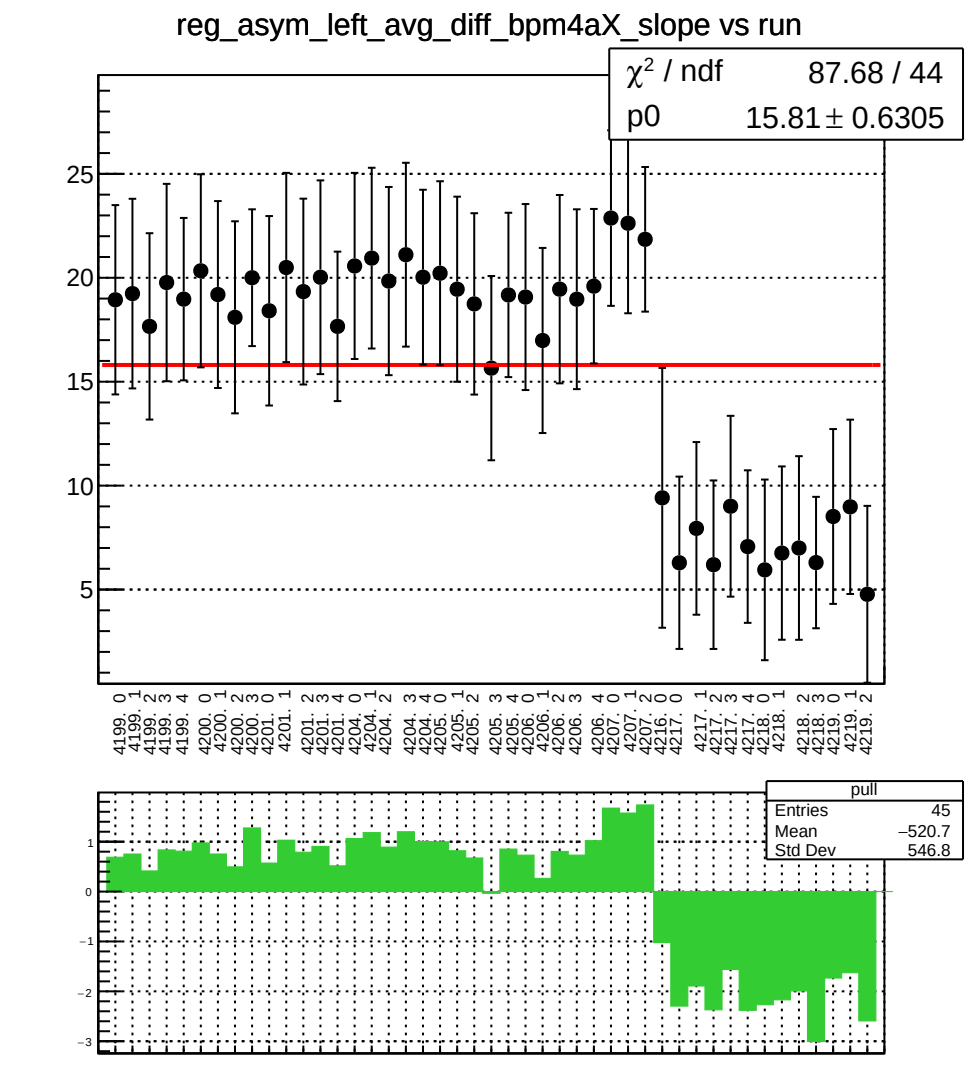

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.96 / 44
p0 −45.78 ± 0.0835
−44.5
−45
−45.5
−46
−46.5
−47
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −311.2
Std Dev 333.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01784
Std Dev 0.6137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

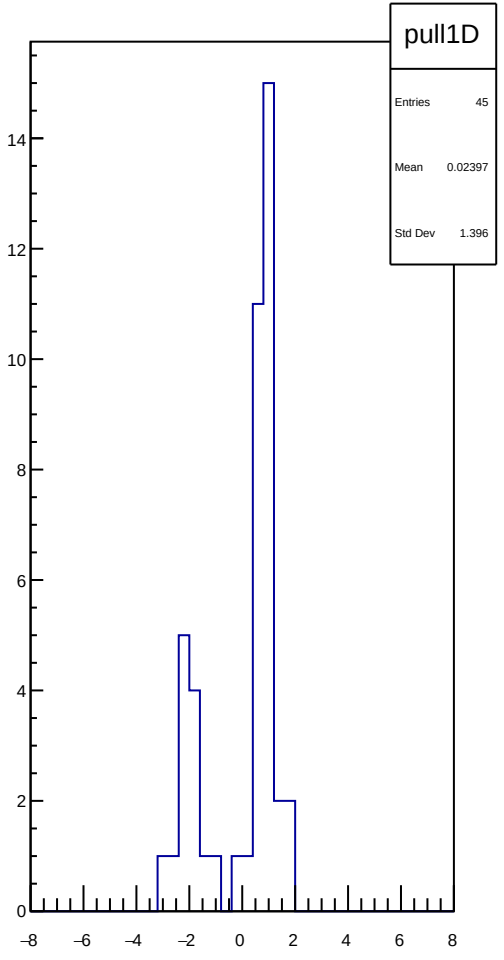

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.15 / 44
p0 1.544 ± 0.6375
10
5
0
−5
−10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 2.621
Std Dev 42.9
1
0.5
0
−0.5
−1
−1.5

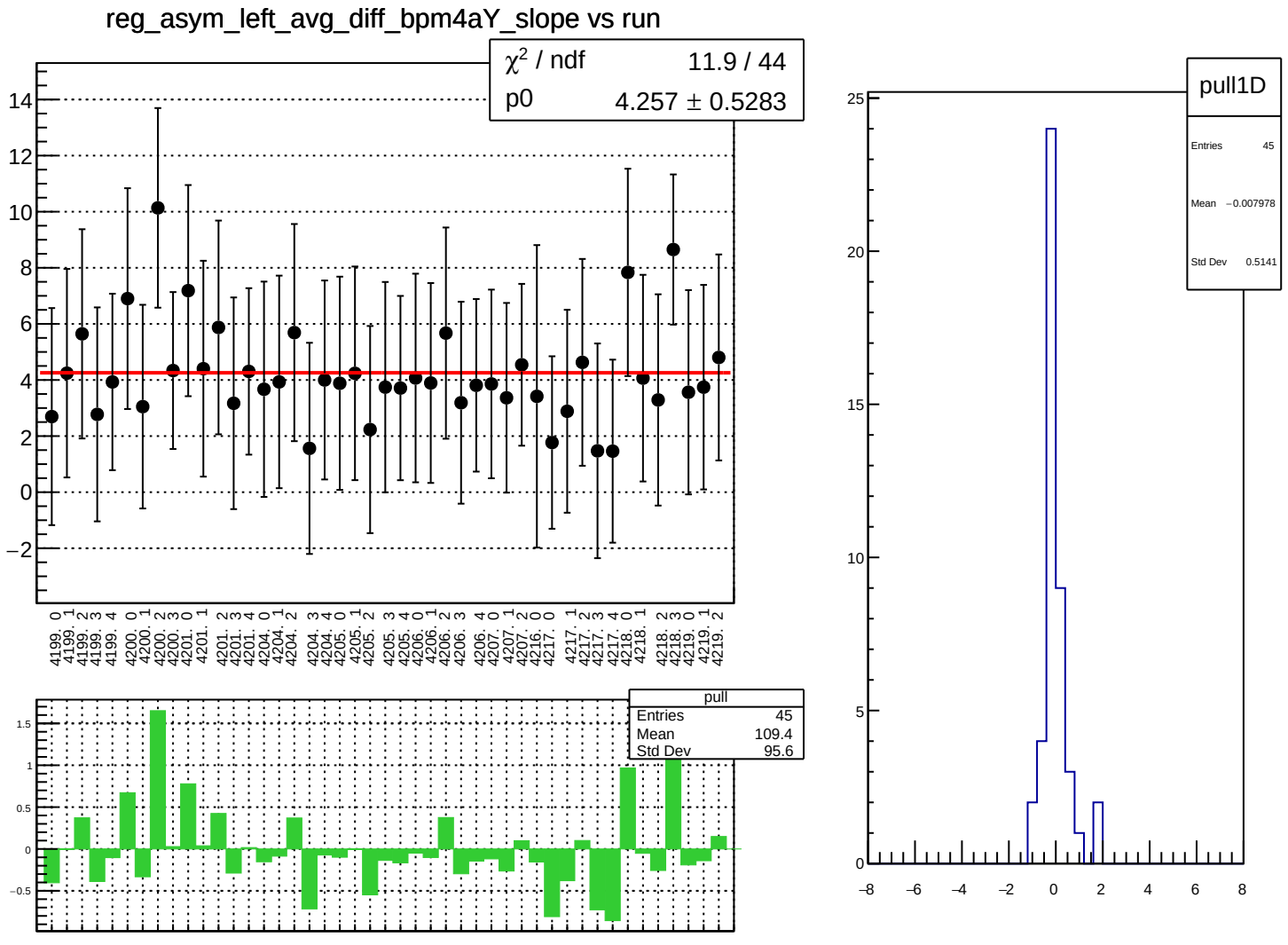

pull1D
Entries 45
Mean 0.01904
Std Dev 0.4975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

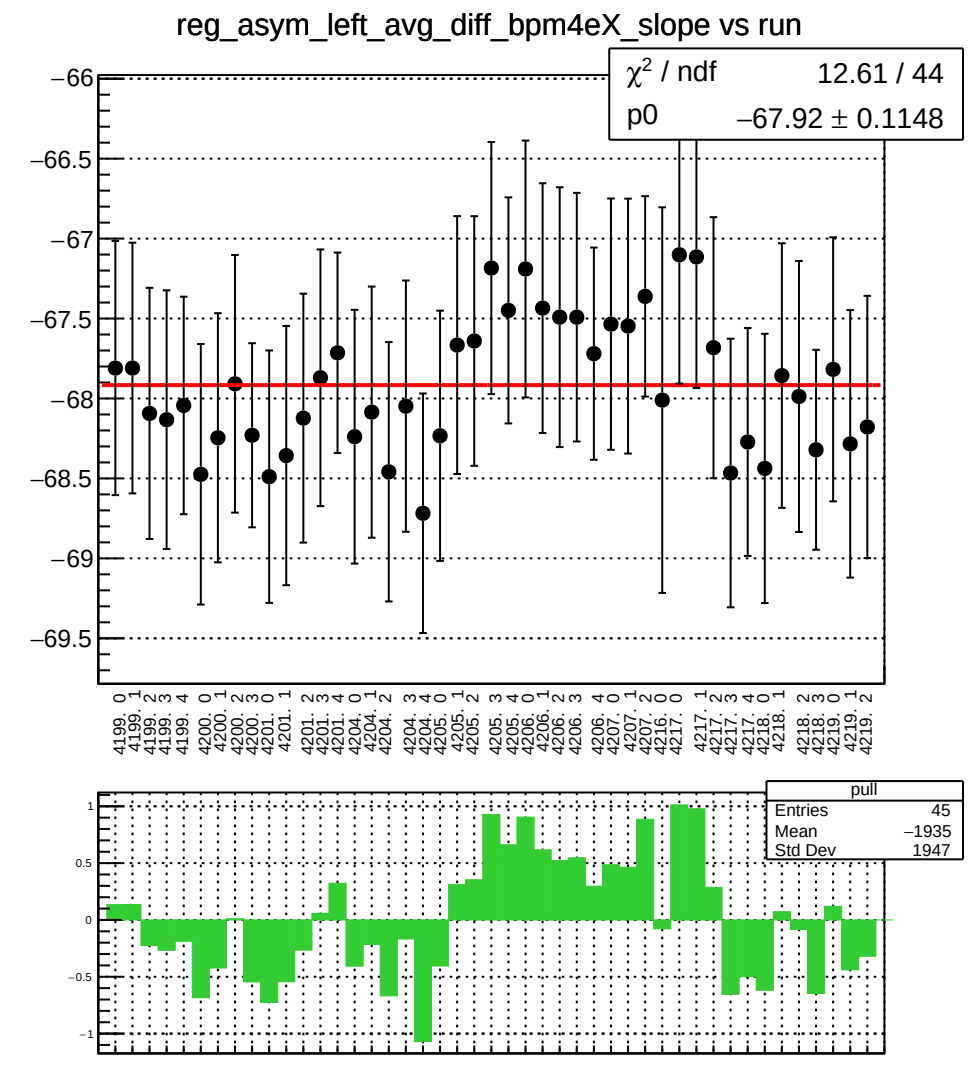

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 236.3 / 44
p0 6.424 ± 0.111
pull
Entries 45
Mean −23.91
Std Dev 47.44

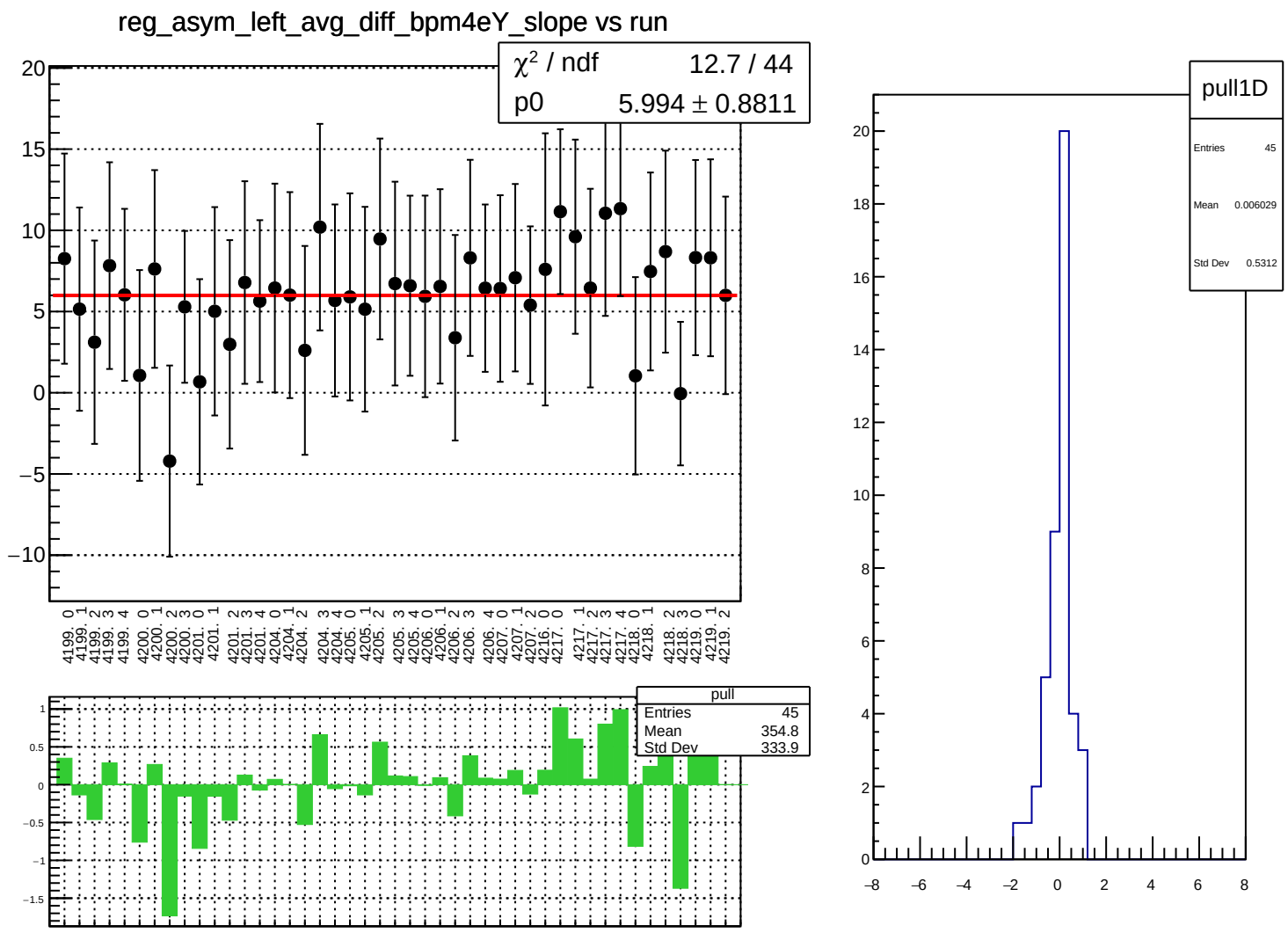

pull1D
Entries 45
Mean −0.5057
Std Dev 2.235

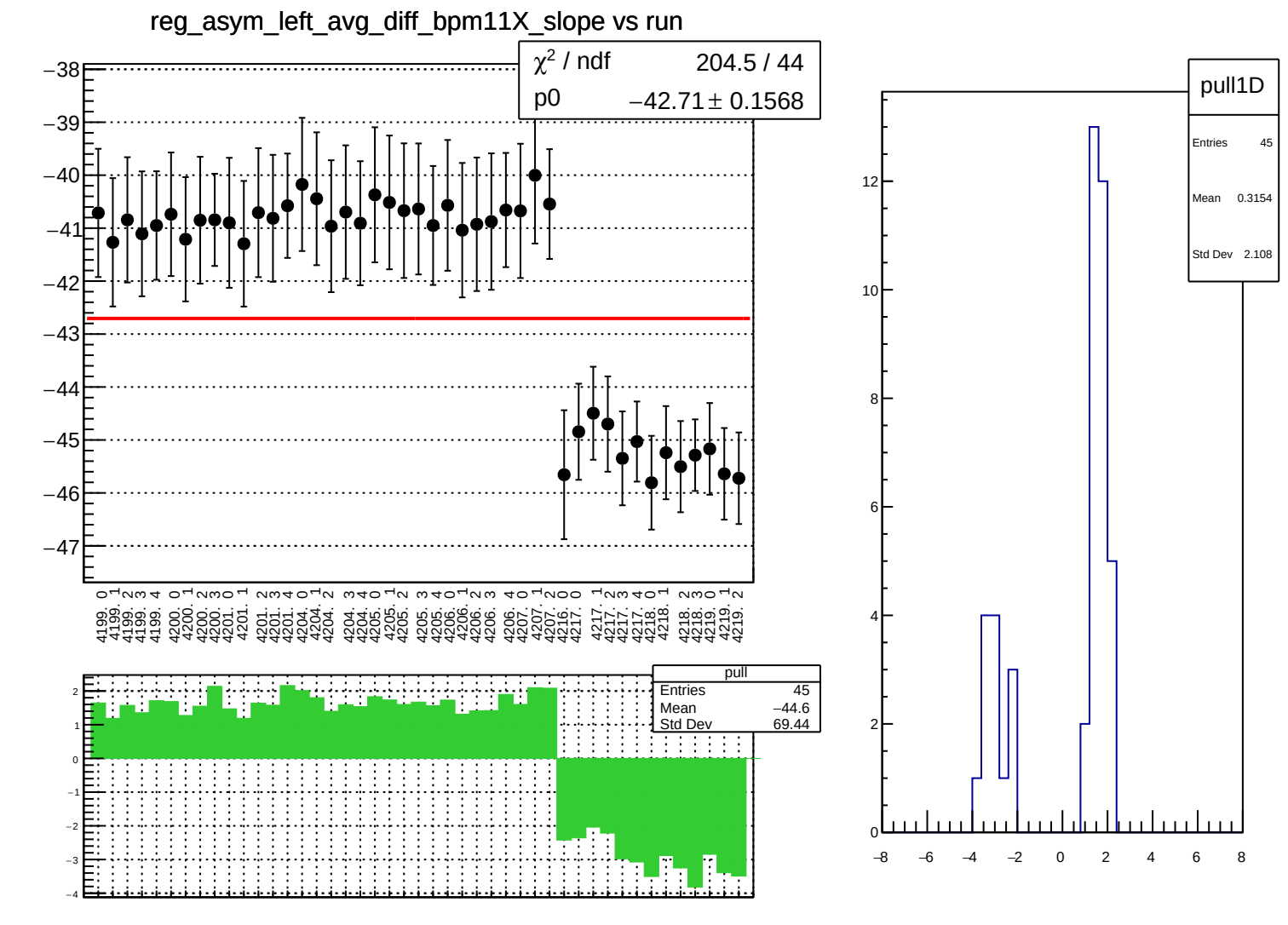

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 87.68 / 44
p0 15.81 ± 0.6305
pull
Entries 45
Mean −520.7
Std Dev 546.8

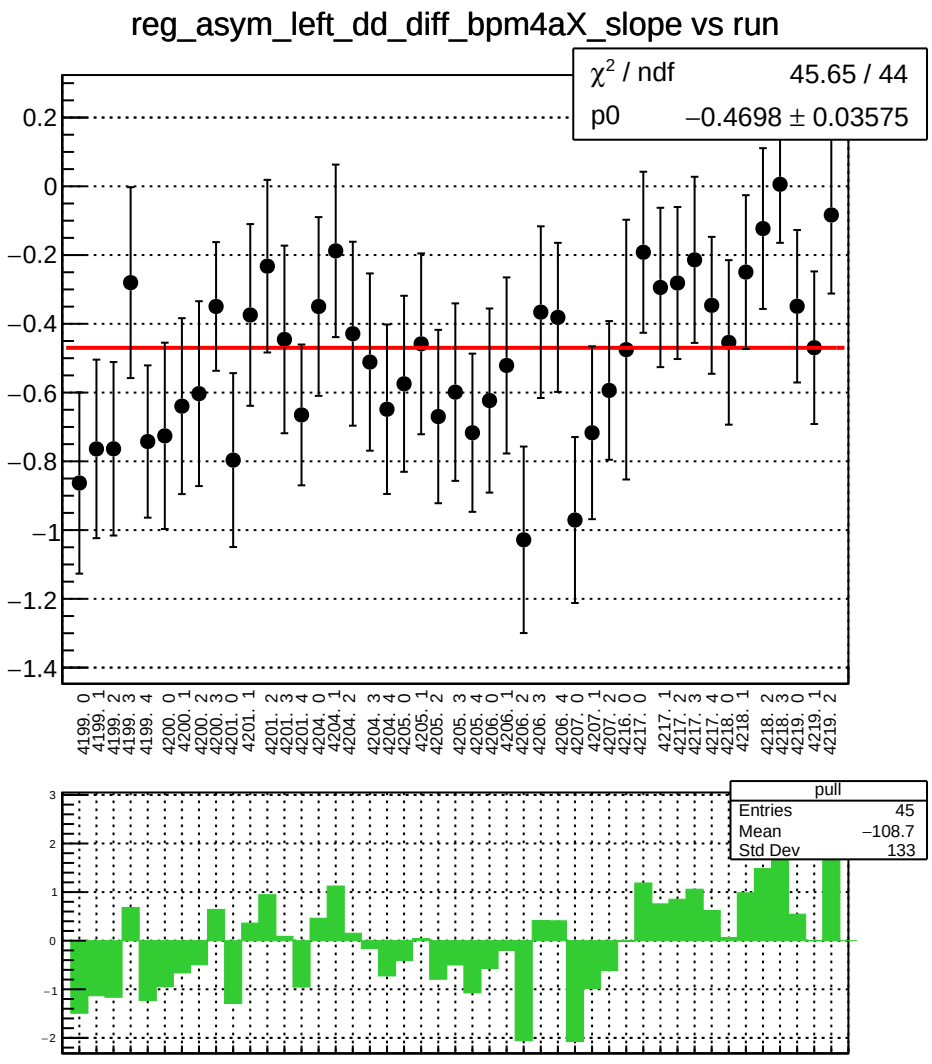

pull1D
Entries 45
Mean 0.02397
Std Dev 1.396

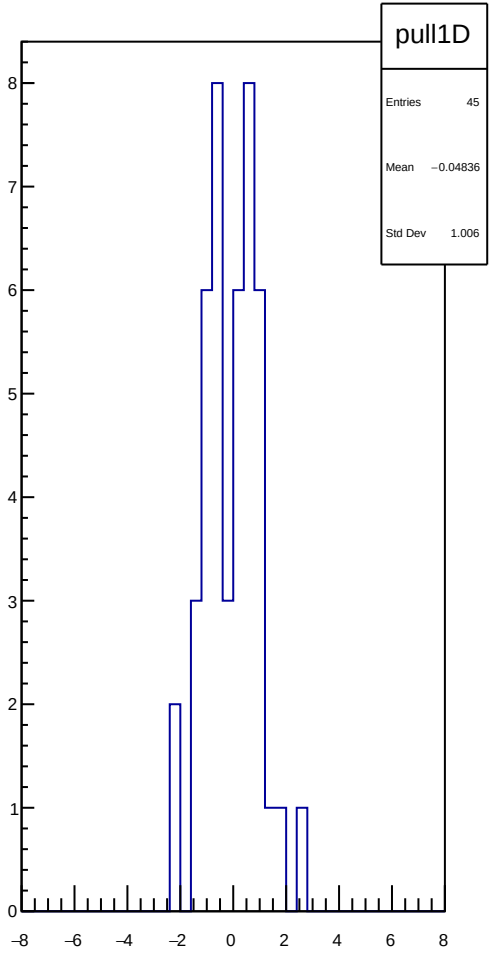

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.9 / 44
p0 4.257 ± 0.5283
pull
Entries 45
Mean 109.4
Std Dev 95.6
pull1D
Entries 45
Mean −0.007978
Std Dev 0.5141

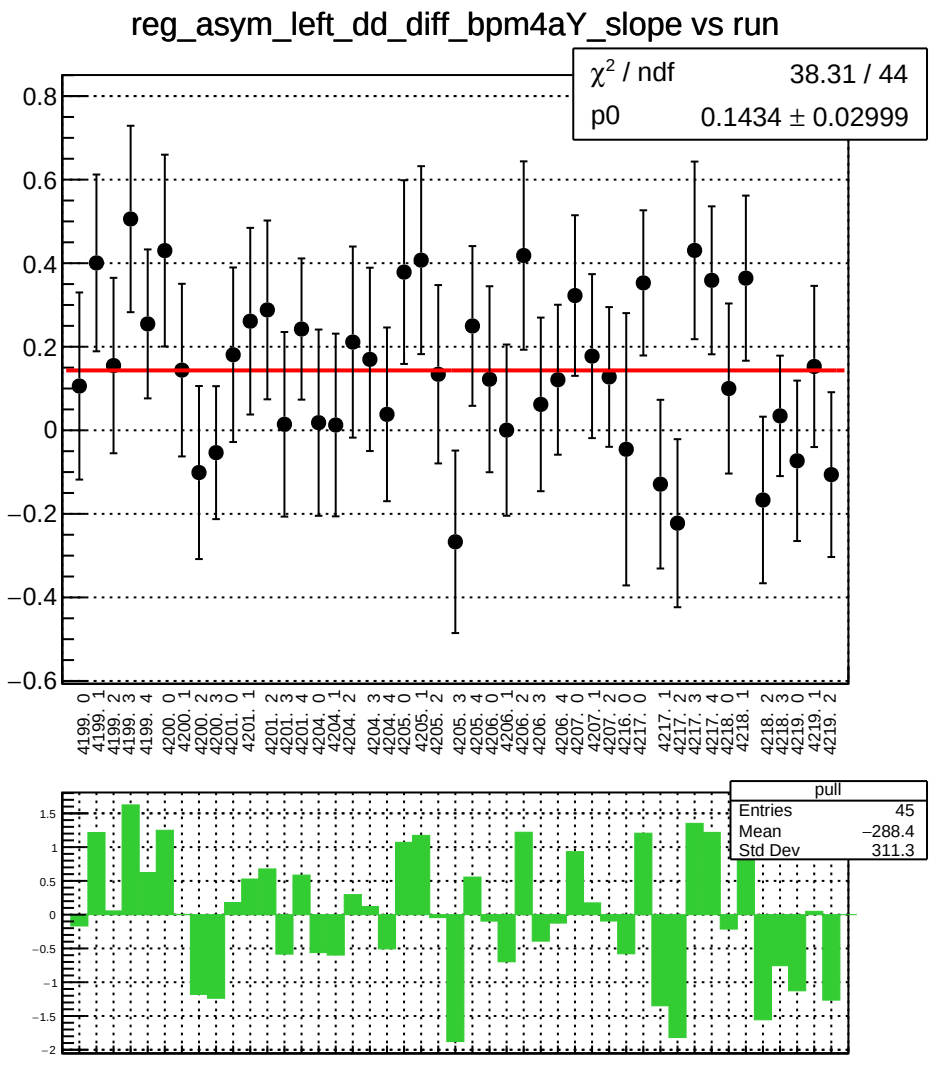

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.61 / 44
p0 −67.92 ± 0.1148
−66
−66.5
−67
−67.5
−68
−68.5
−69
−69.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4200. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1935
Std Dev 1947
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.0006967
Std Dev 0.5294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

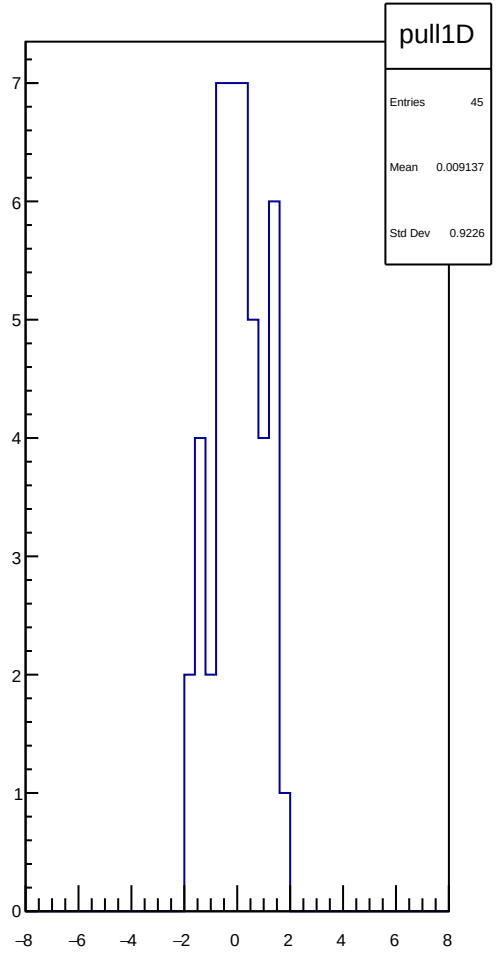

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.7 / 44
p0 5.994 ± 0.8811
pull
Entries 45
Mean 354.8
Std Dev 333.9
pull1D
Entries 45
Mean 0.006029
Std Dev 0.5312

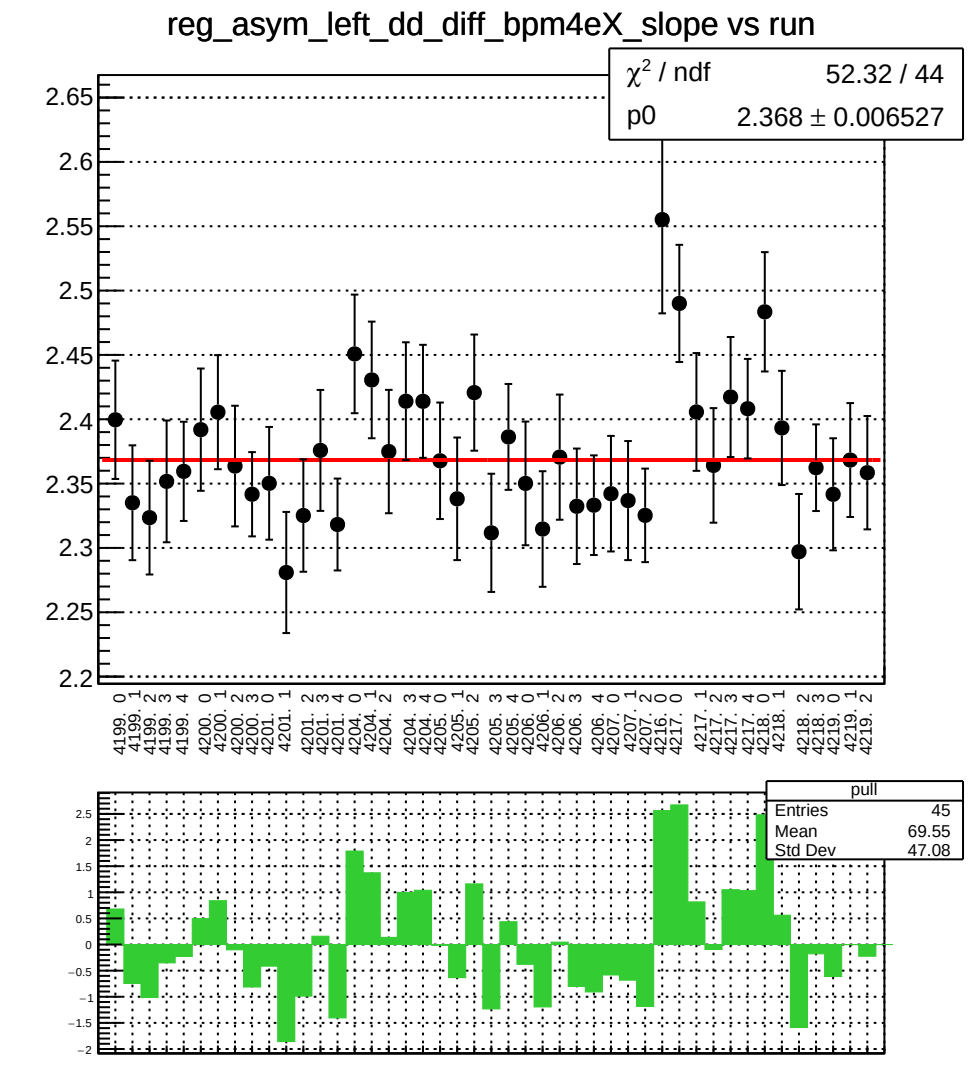

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 204.5 / 44
p0 −42.71 ± 0.1568
pull
Entries 45
Mean −44.6
Std Dev 69.44
pull1D
Entries 45
Mean 0.3154
Std Dev 2.108

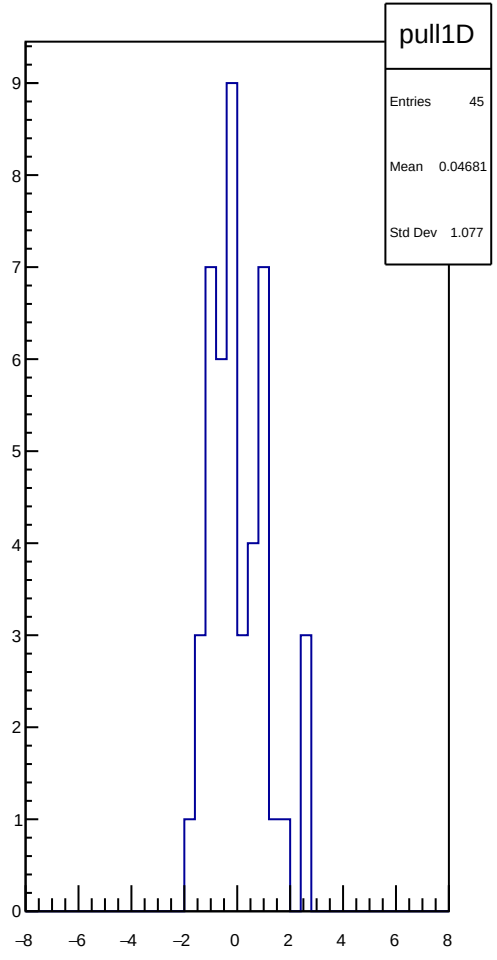

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.65 / 44
p0 −0.4698 ± 0.03575
pull
Entries 45
Mean −108.7
Std Dev 133

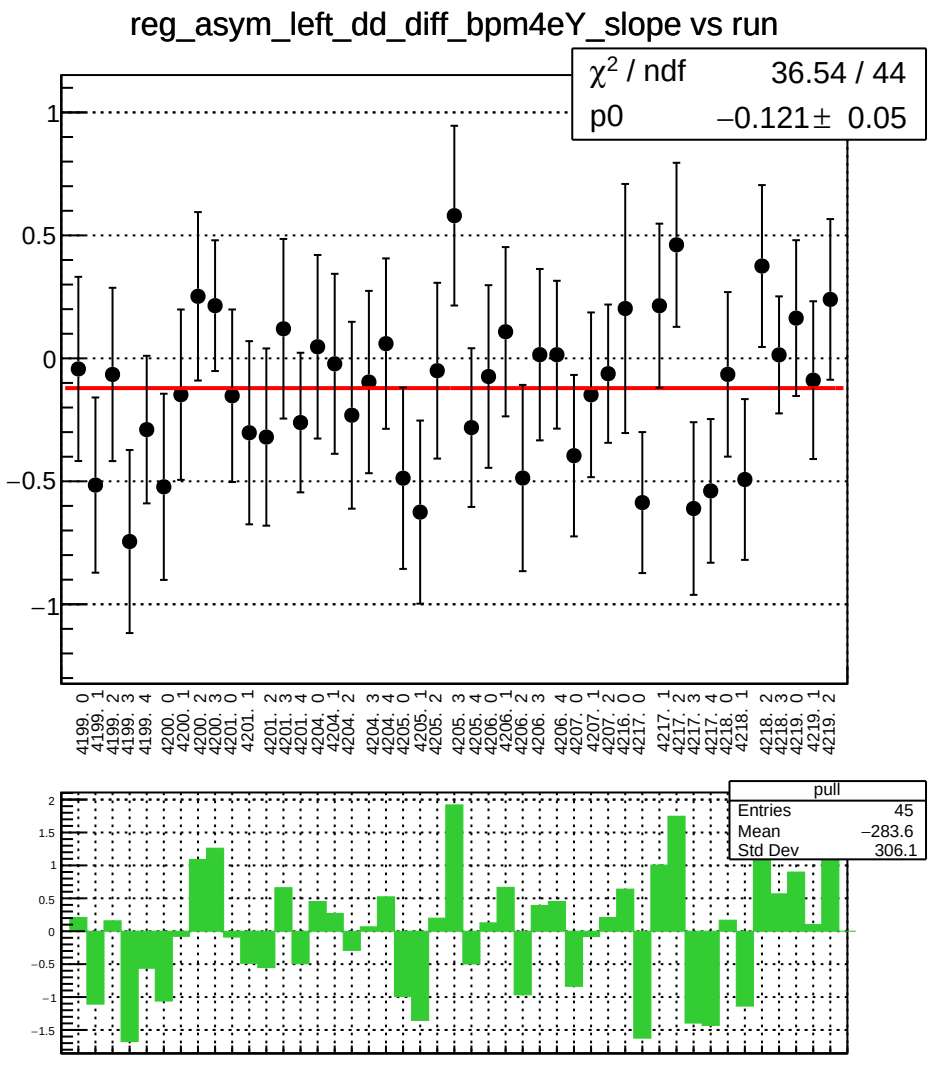

pull1D
Entries 45
Mean −0.04836
Std Dev 1.006

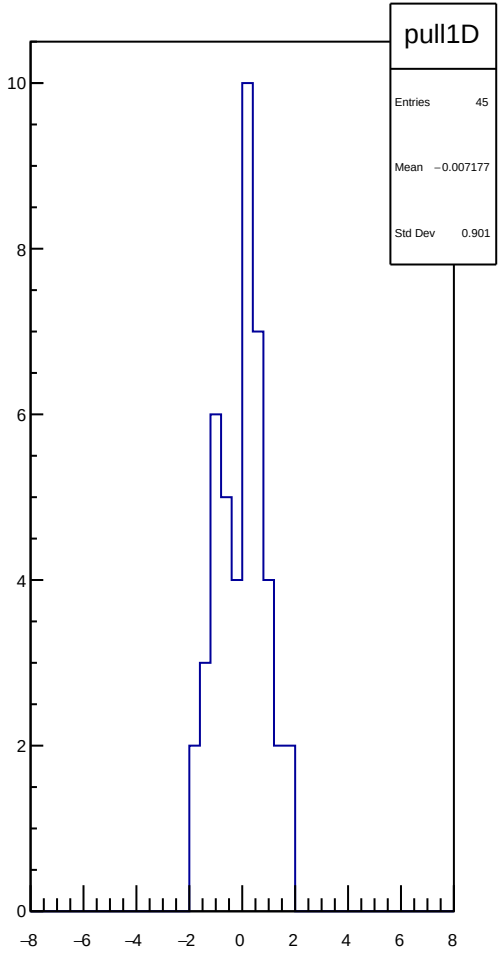

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.31 / 44
p0 0.1434 ± 0.02999
pull
Entries 45
Mean −288.4
Std Dev 311.3

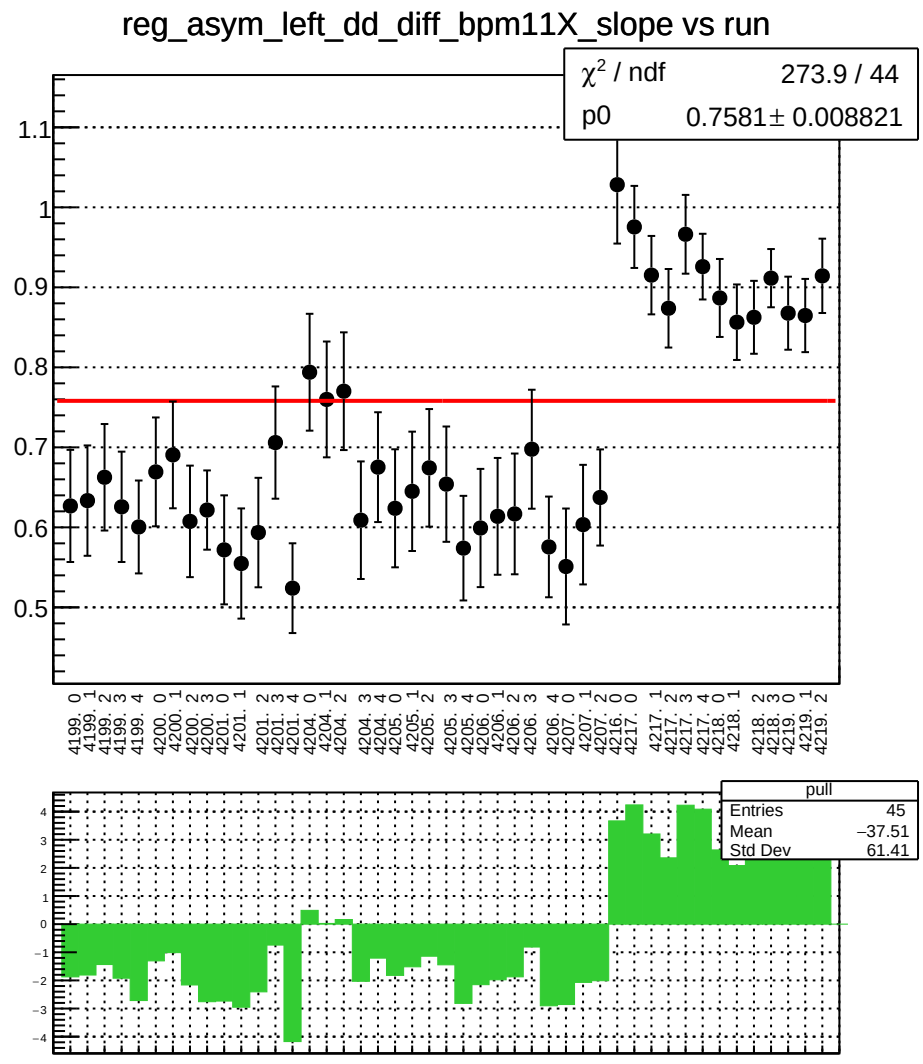

pull1D
Entries 45
Mean 0.009137
Std Dev 0.9226

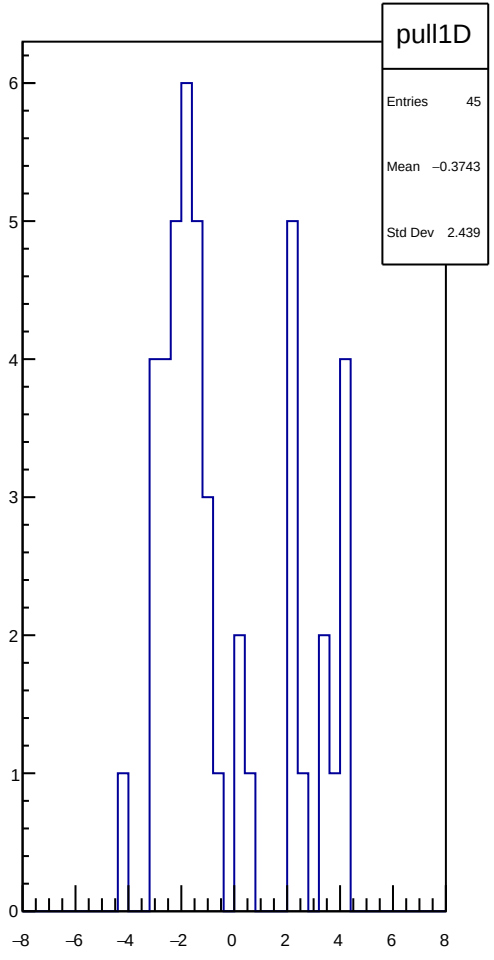

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.32 / 44
p0 2.368 ± 0.006527
pull
Entries 45
Mean 69.55
Std Dev 47.08

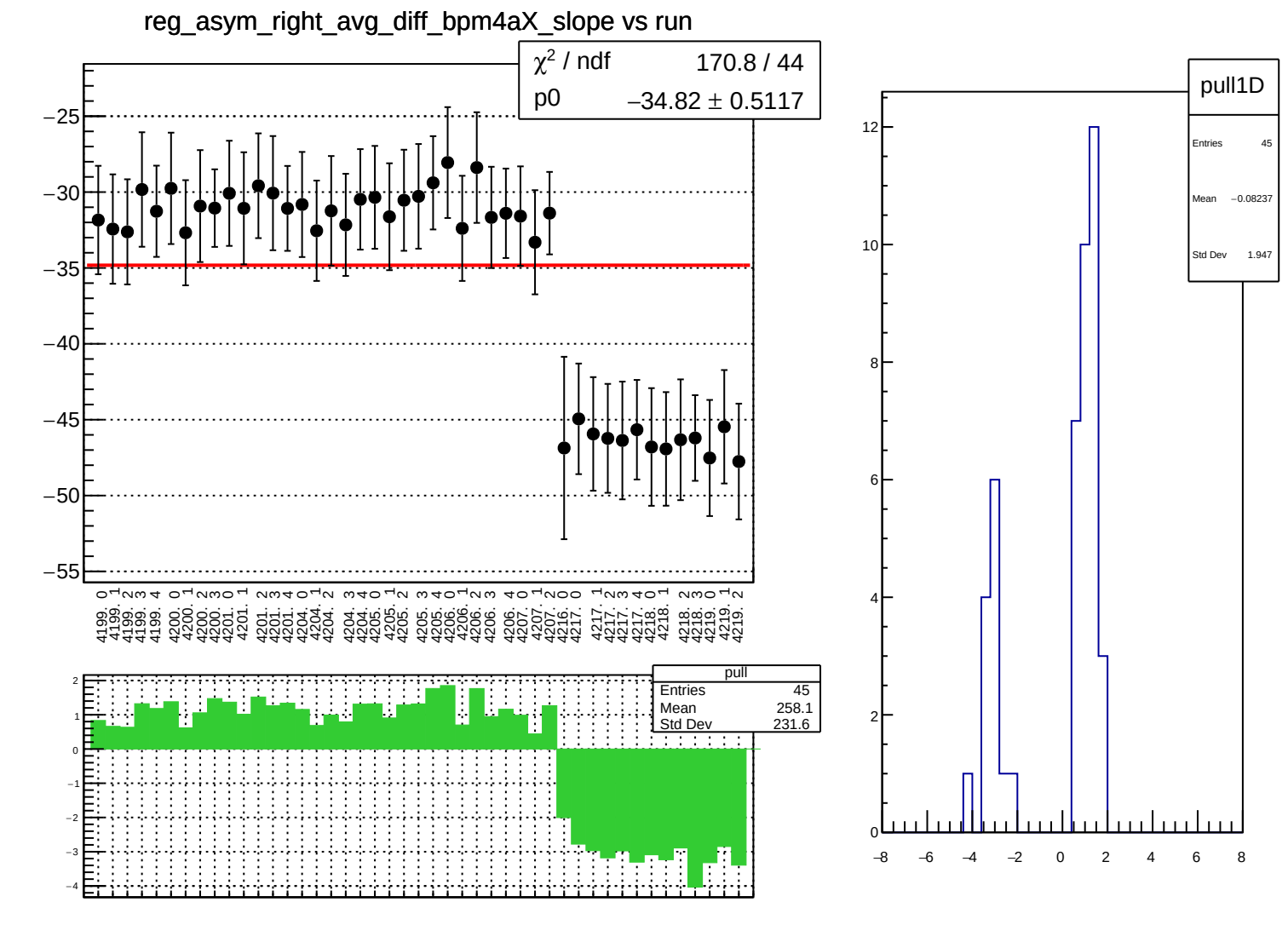

pull1D
Entries 45
Mean 0.04681
Std Dev 1.077

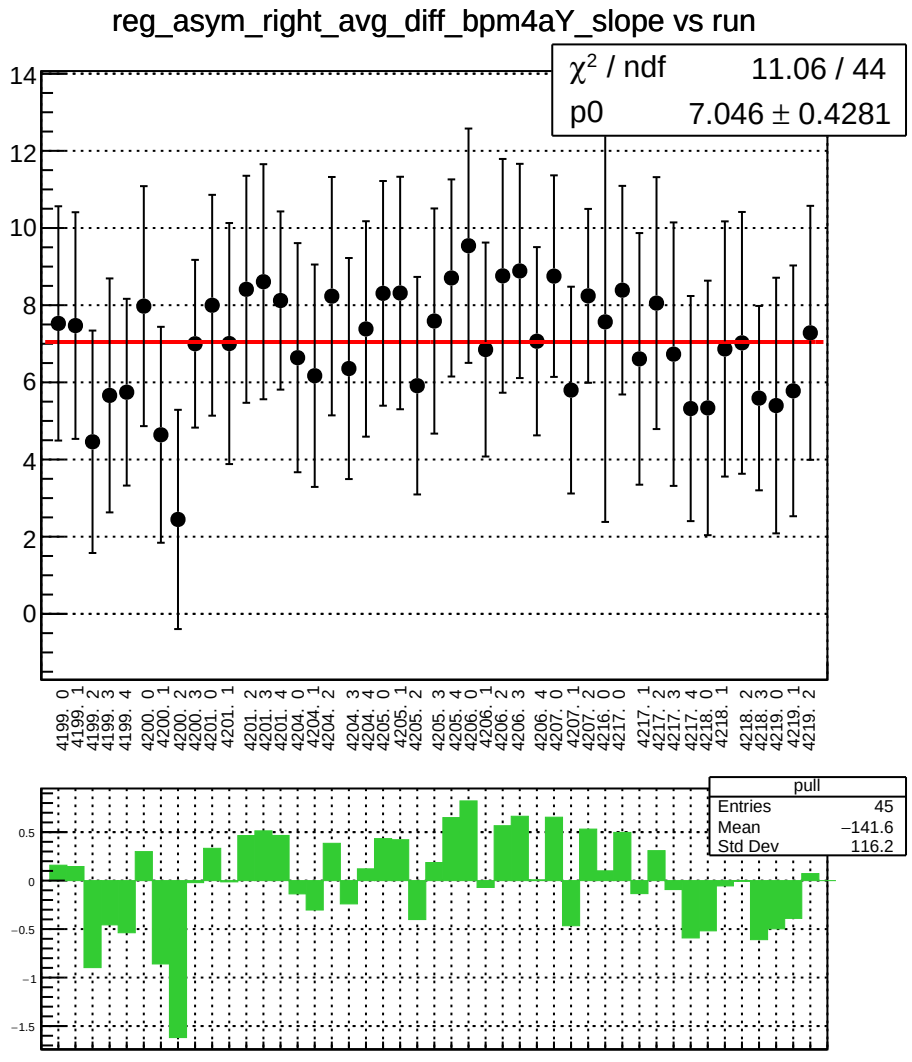

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.54 / 44
p0 −0.121± 0.05
pull
Entries 45
Mean −283.6
Std Dev 306.1

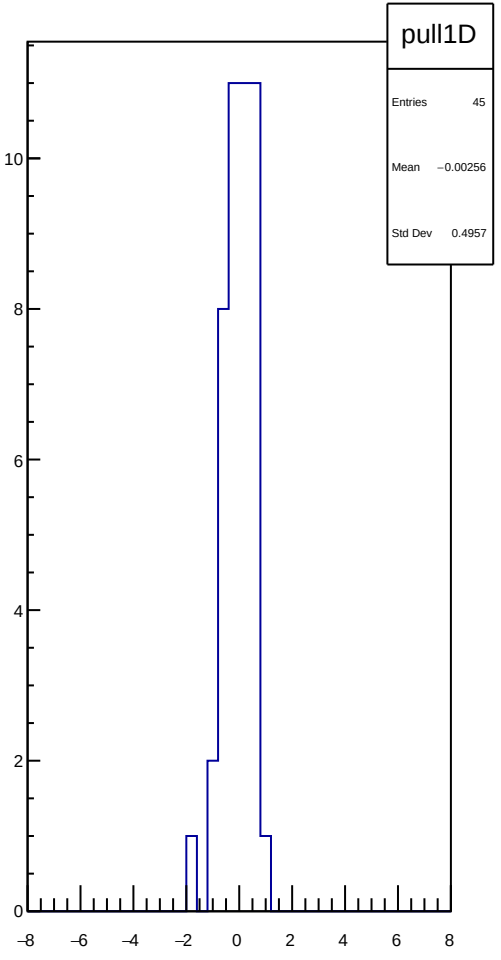

pull1D
Entries 45
Mean −0.007177
Std Dev 0.901

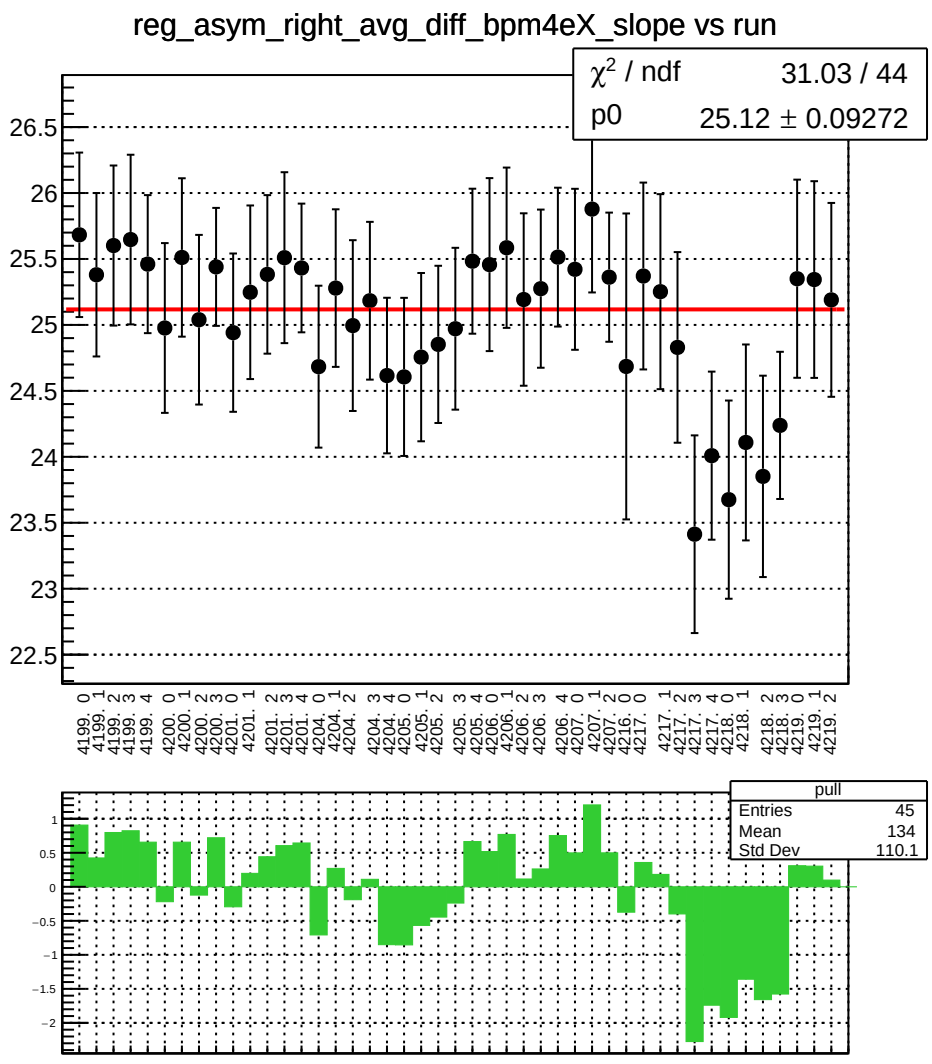

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 273.9 / 44
p0 0.7581± 0.008821
1.1
1
0.9
0.8
0.7
0.6
0.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −37.51
Std Dev 61.41
4
3
2
1
0
−1
−2
−3
−4

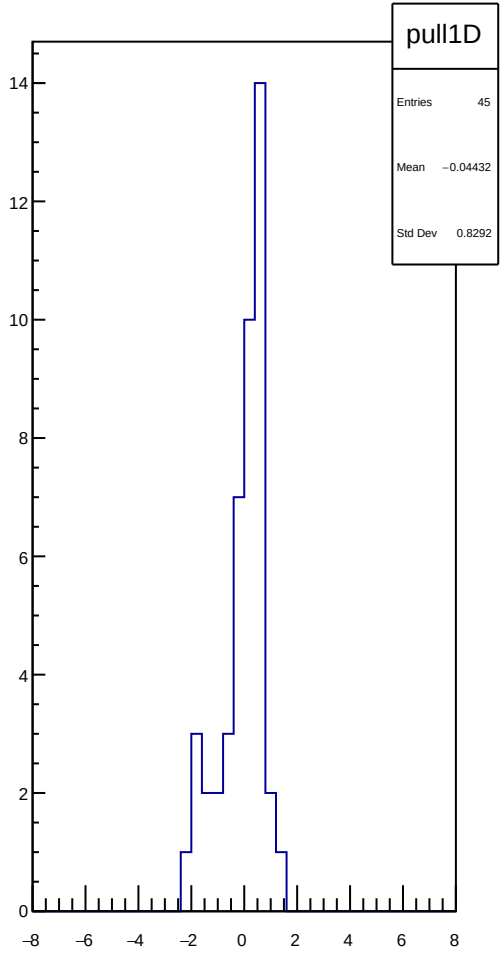

pull1D
Entries 45
Mean −0.3743
Std Dev 2.439
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

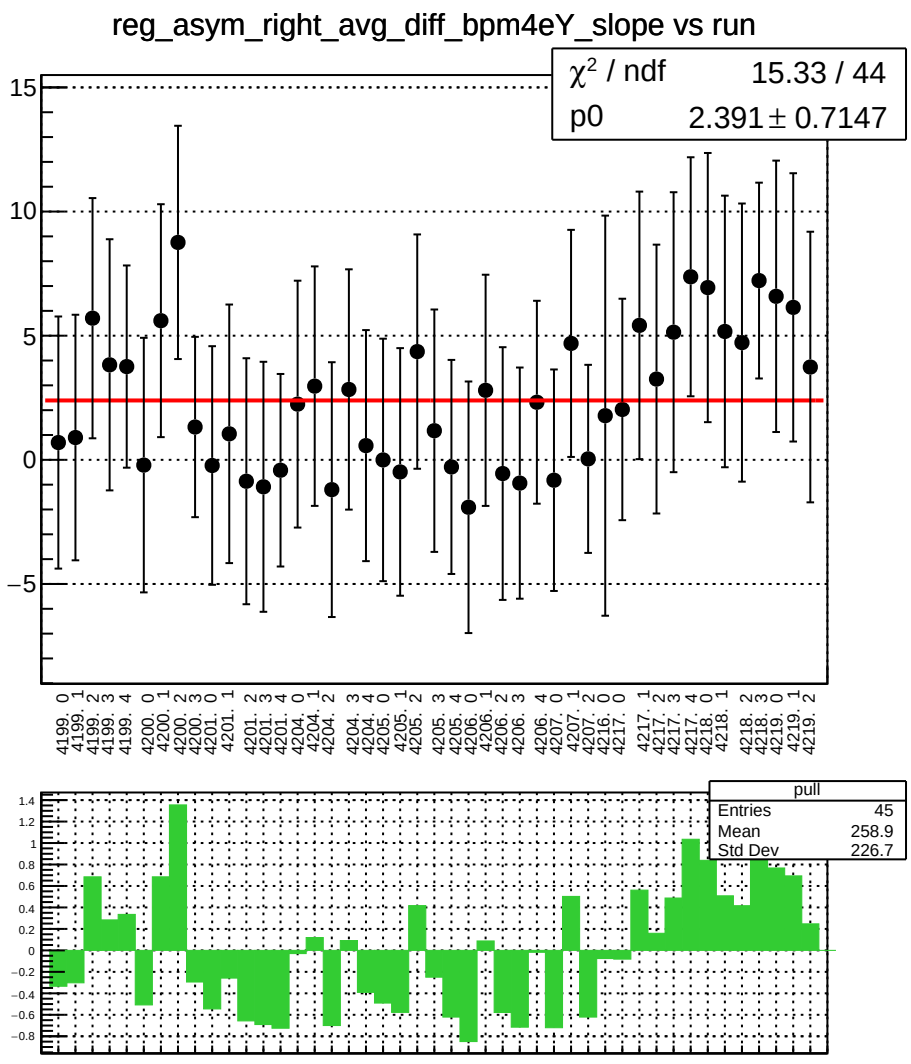

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 170.8 / 44
p0 −34.82 ± 0.5117
pull
Entries 45
Mean 258.1
Std Dev 231.6
pull1D
Entries 45
Mean −0.08237
Std Dev 1.947

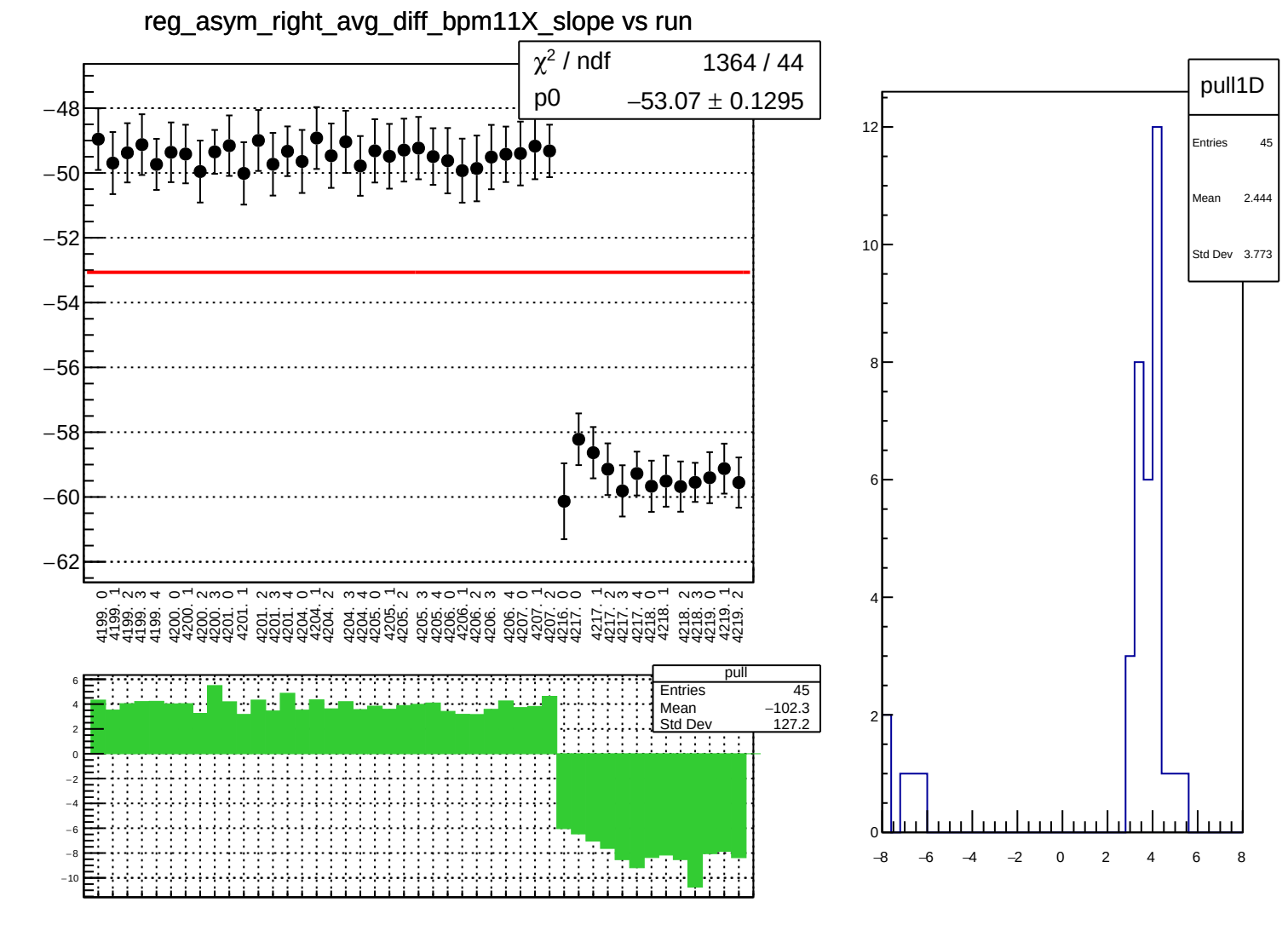

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.06 / 44
p0 7.046 ± 0.4281
pull
Entries 45
Mean −141.6
Std Dev 116.2

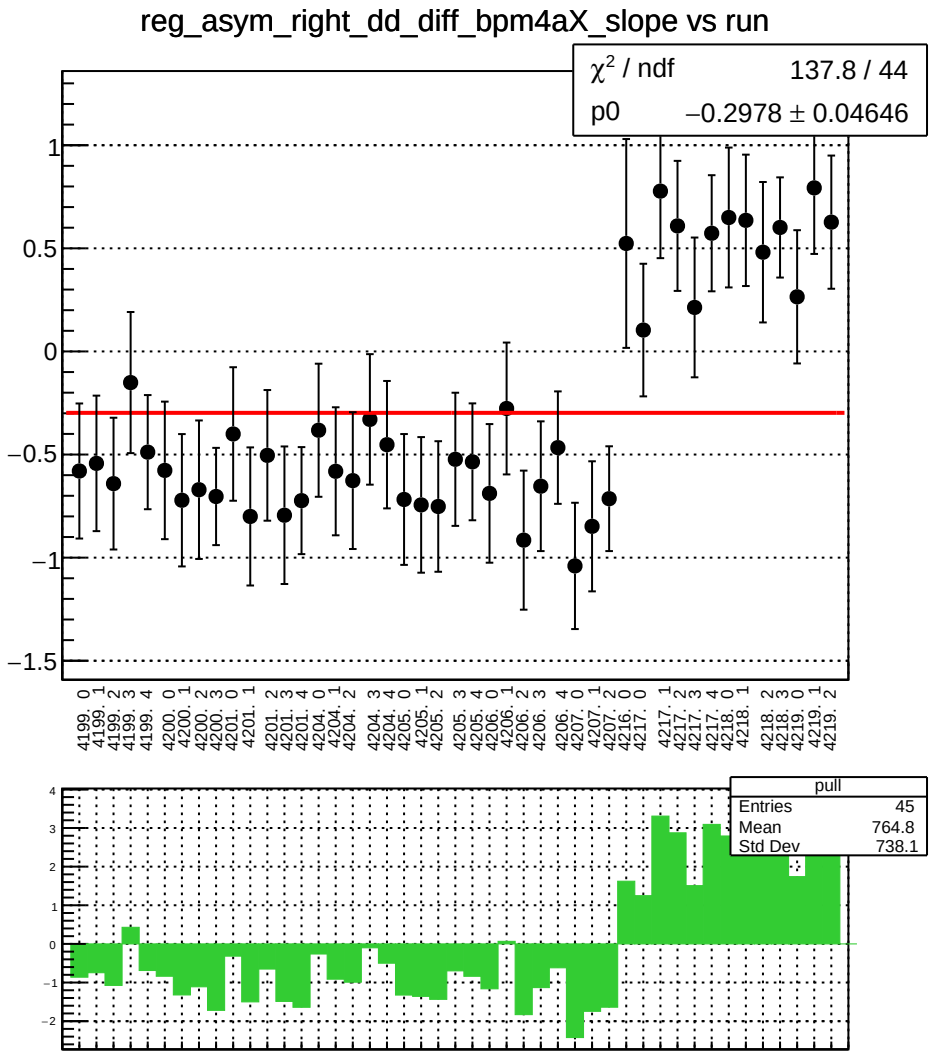

pull1D
Entries 45
Mean −0.00256
Std Dev 0.4957

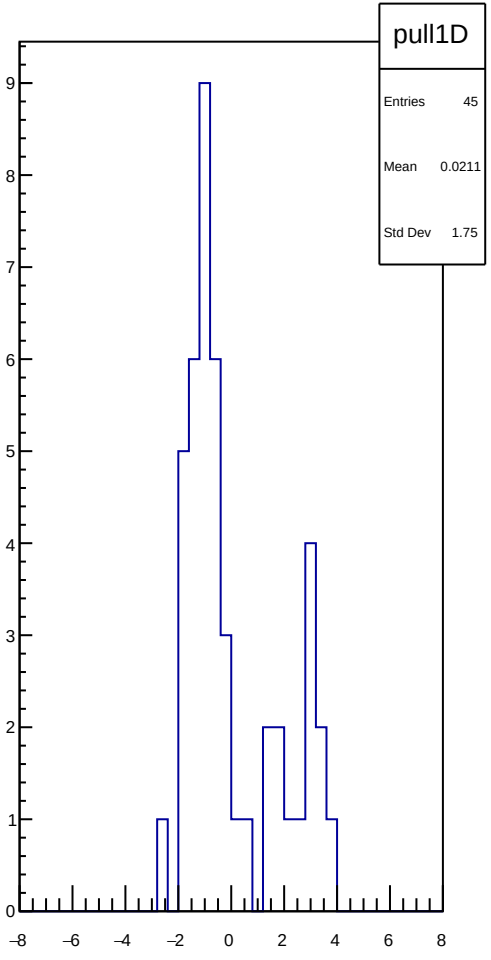

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.03 / 44
p0 25.12 ± 0.09272
pull
Entries 45
Mean 134
Std Dev 110.1

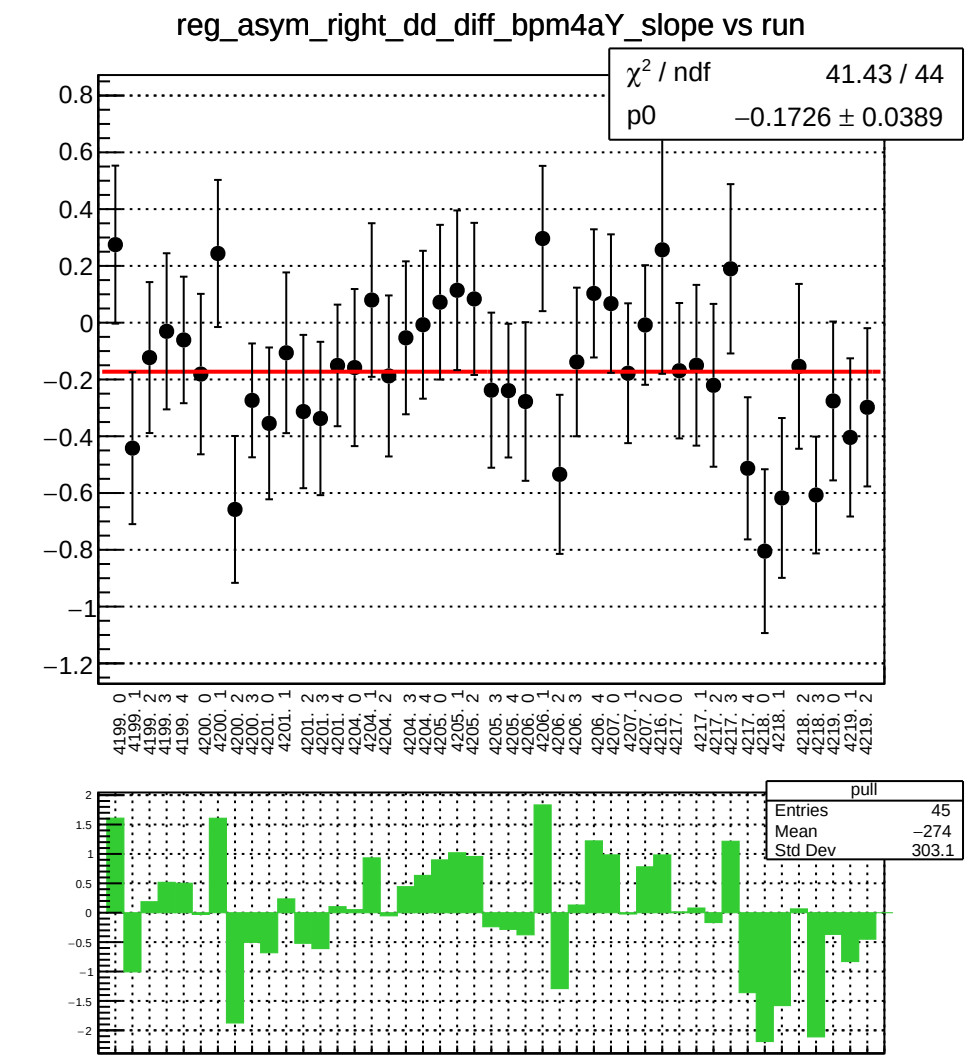

pull1D
Entries 45
Mean −0.04432
Std Dev 0.8292

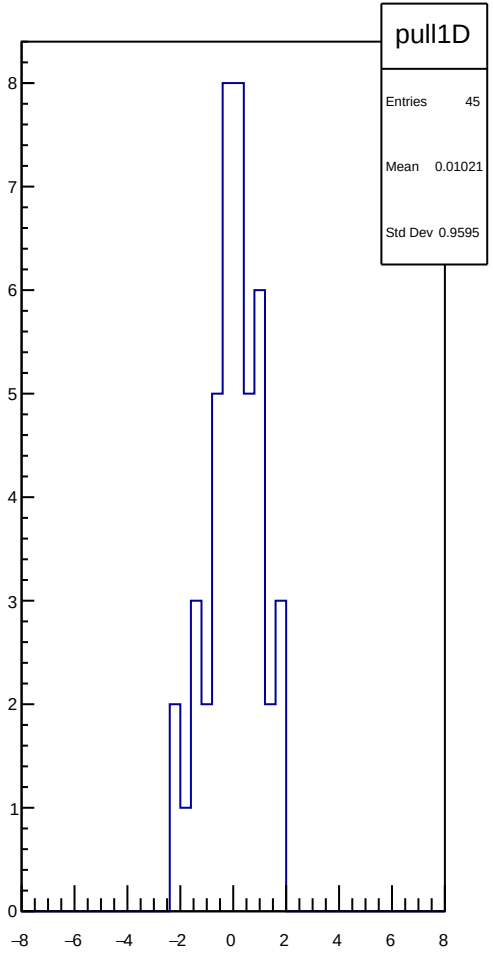

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.33 / 44
p0 2.391 ± 0.7147
15
10
5
0
−5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 258.9
Std Dev 226.7
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.01042
Std Dev 0.5836
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

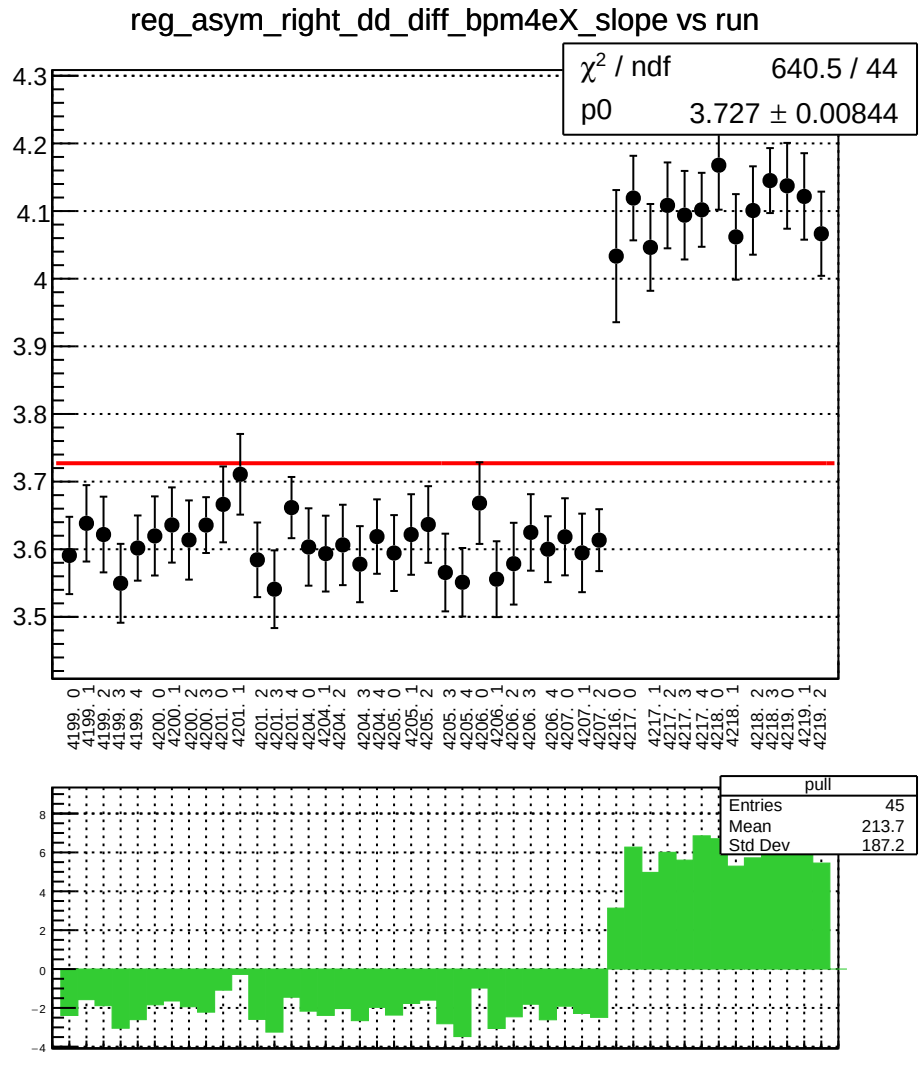

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 1364 / 44
p0 −53.07 ± 0.1295
pull
Entries 45
Mean −102.3
Std Dev 127.2
pull1D
Entries 45
Mean 2.444
Std Dev 3.773

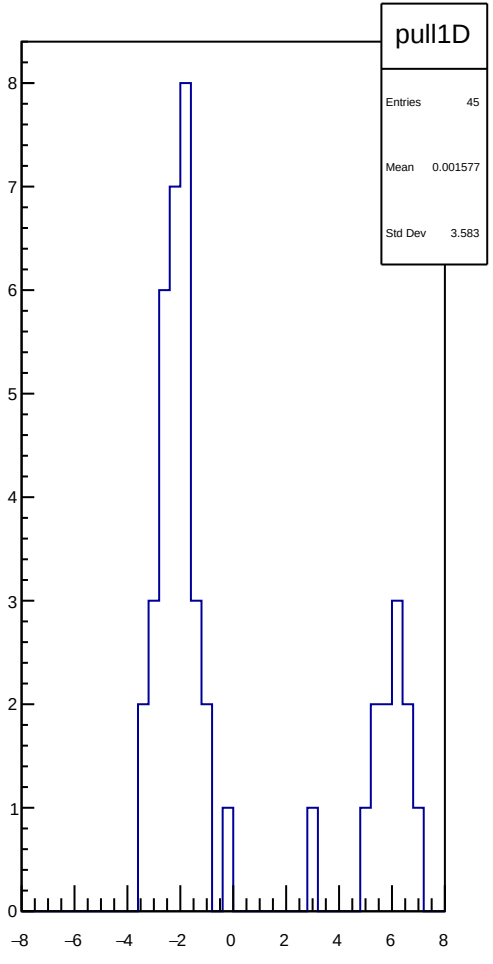

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 137.8 / 44
p0 −0.2978 ± 0.04646
pull
Entries 45
Mean 764.8
Std Dev 738.1

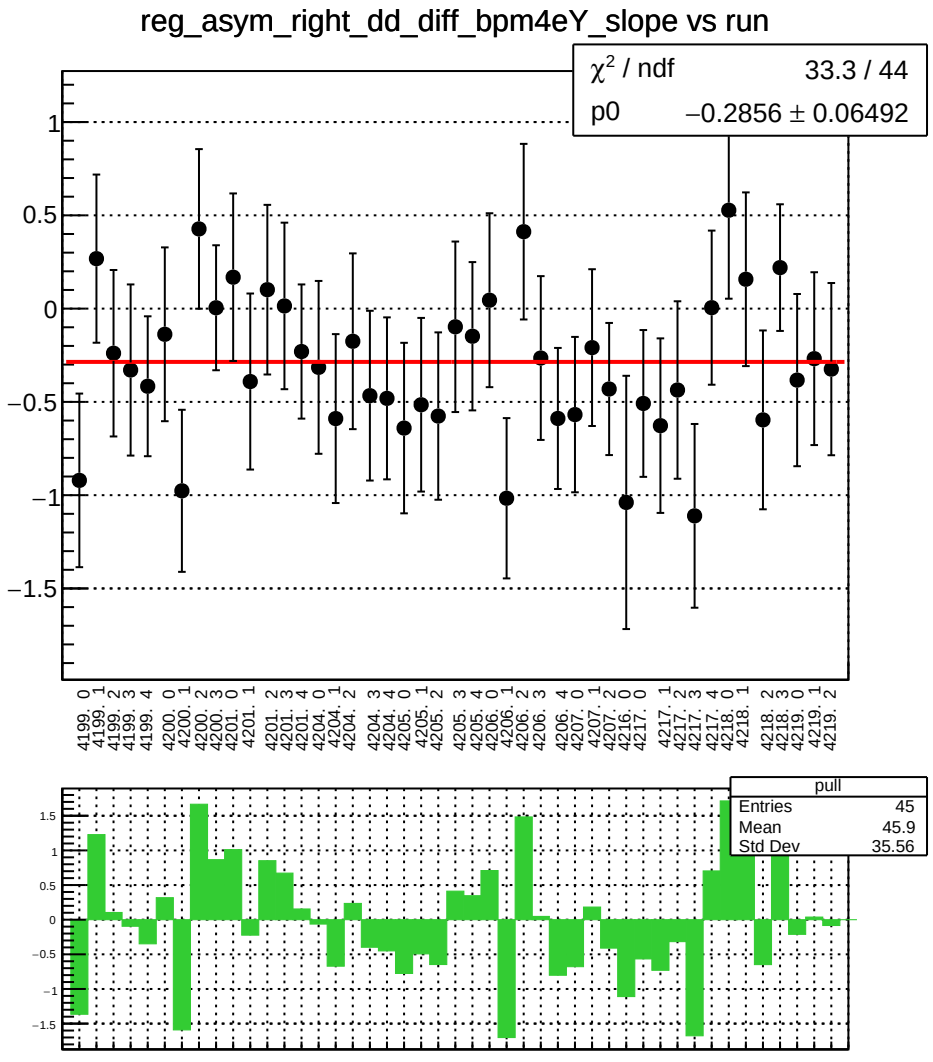

pull1D
Entries 45
Mean 0.0211
Std Dev 1.75

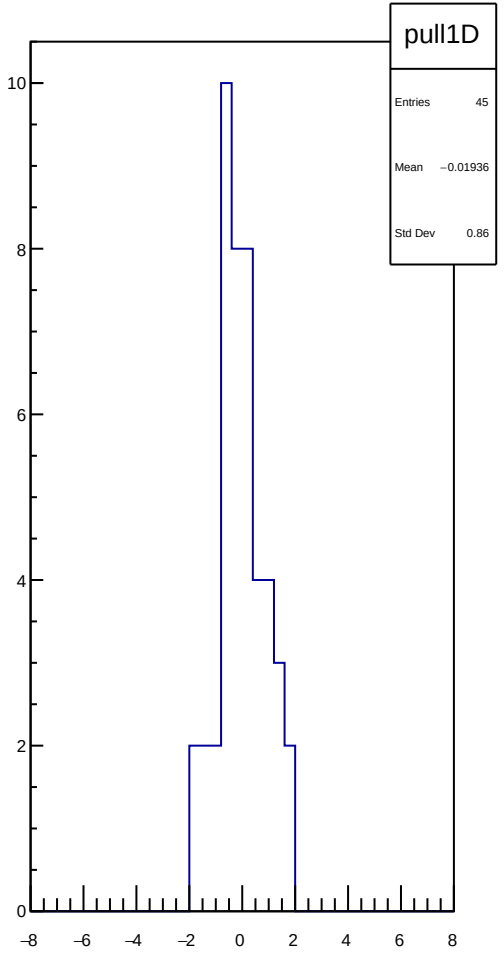

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.43 / 44
p0 −0.1726 ± 0.0389
pull
Entries 45
Mean −274
Std Dev 303.1

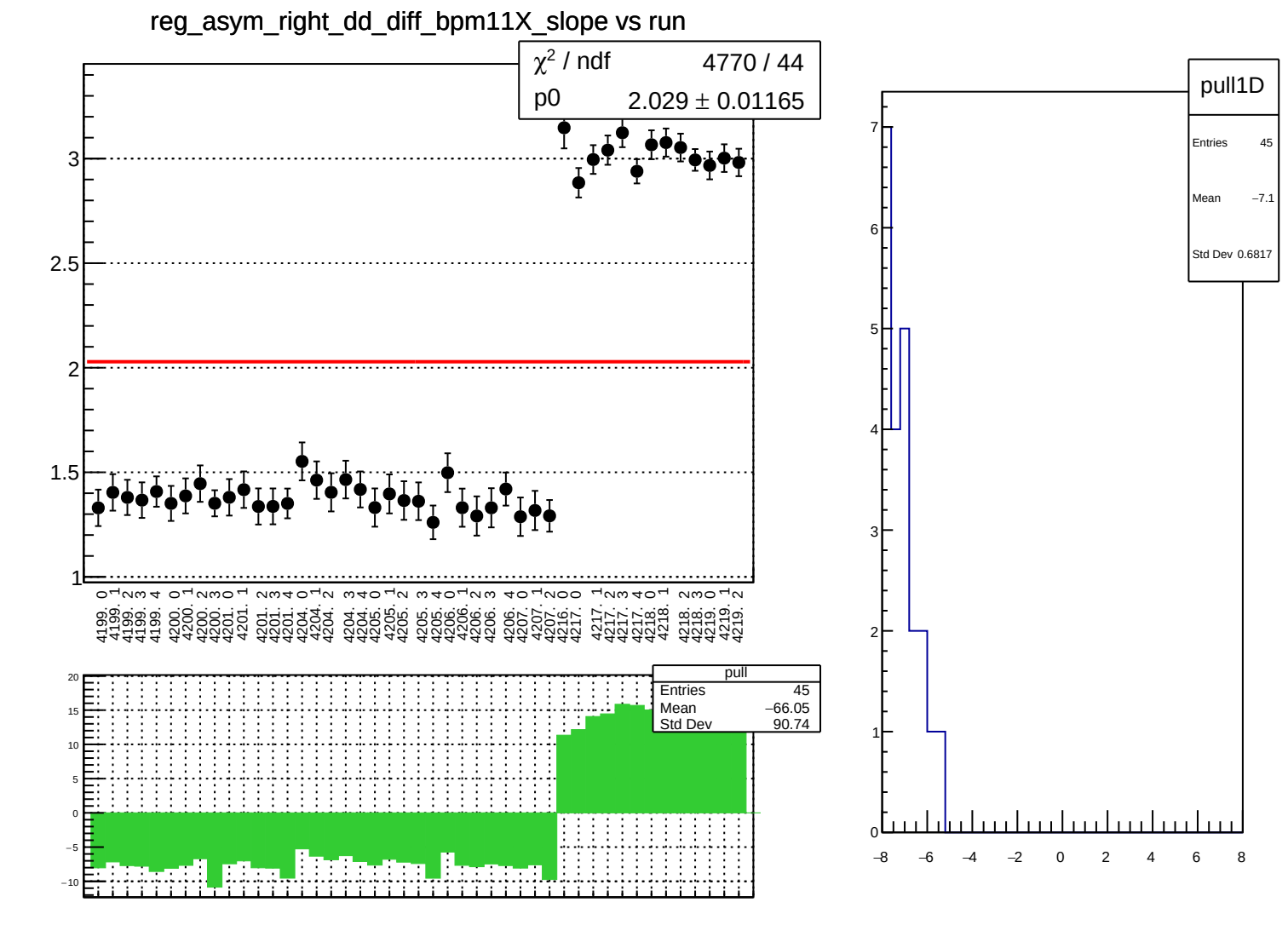

pull1D
Entries 45
Mean 0.01021
Std Dev 0.9595

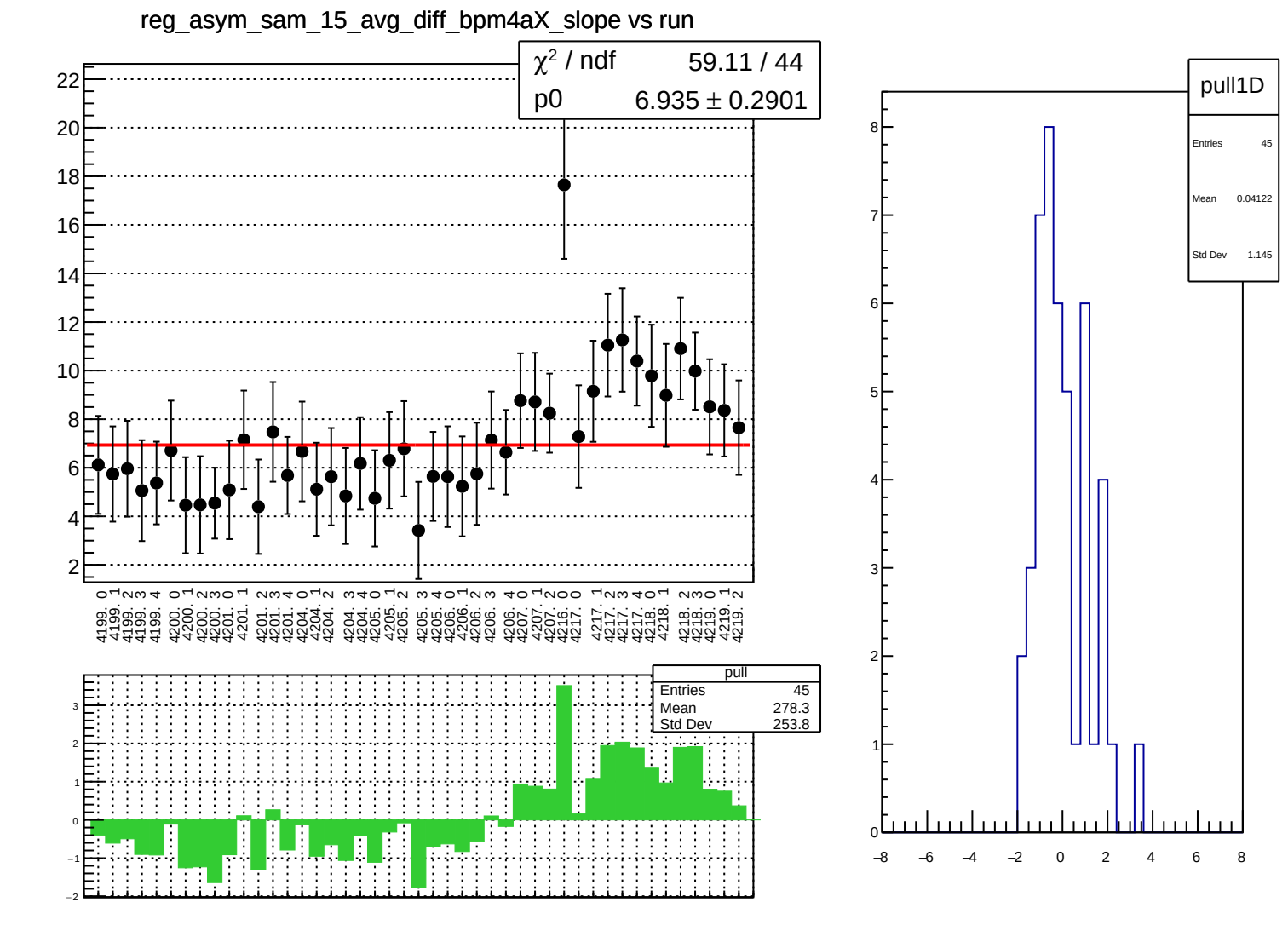

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 640.5 / 44
p0 3.727 ± 0.00844
pull
Entries 45
Mean 213.7
Std Dev 187.2

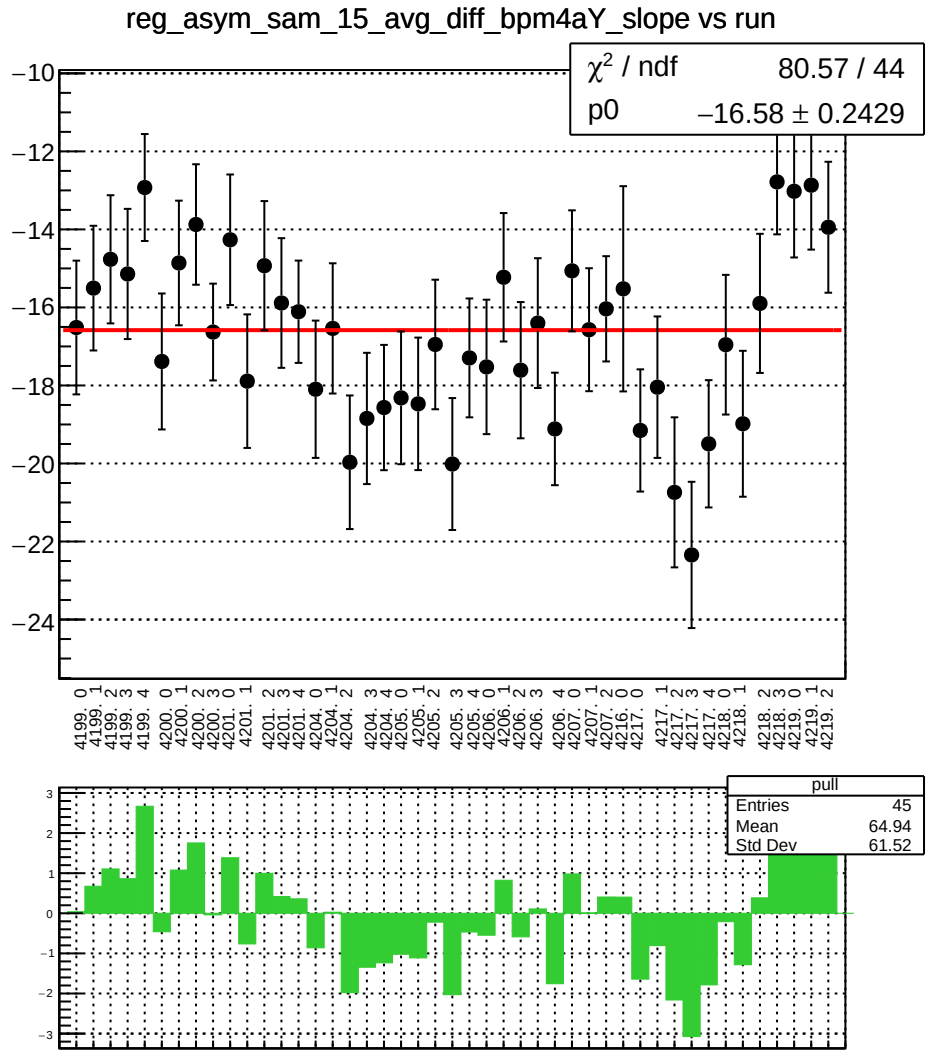

pull1D
Entries 45
Mean 0.001577
Std Dev 3.583

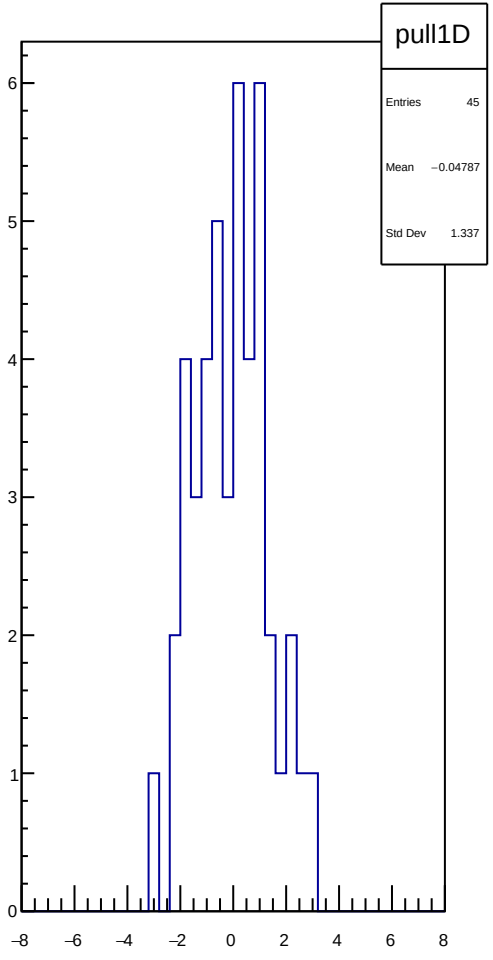

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.3 / 44
p0 −0.2856 ± 0.06492
pull
Entries 45
Mean 45.9
Std Dev 35.56

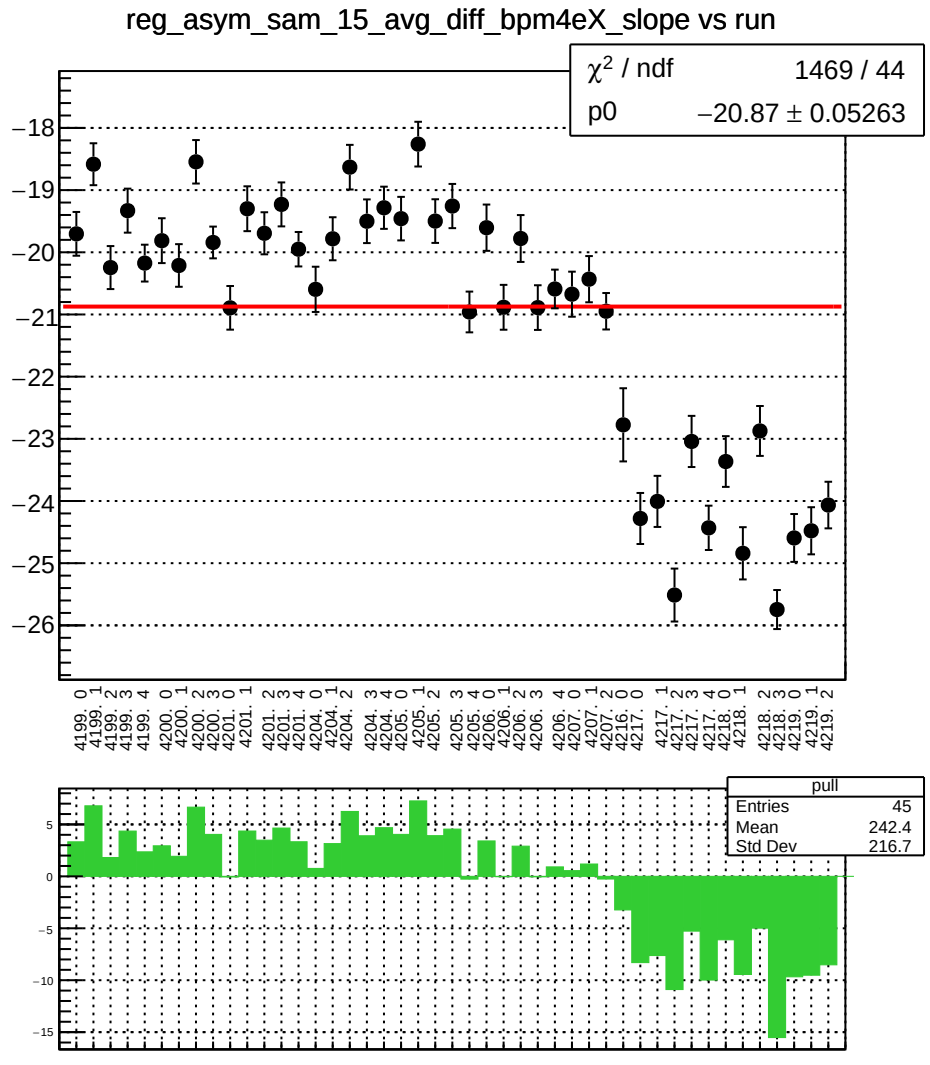

pull1D
Entries 45
Mean −0.01936
Std Dev 0.86

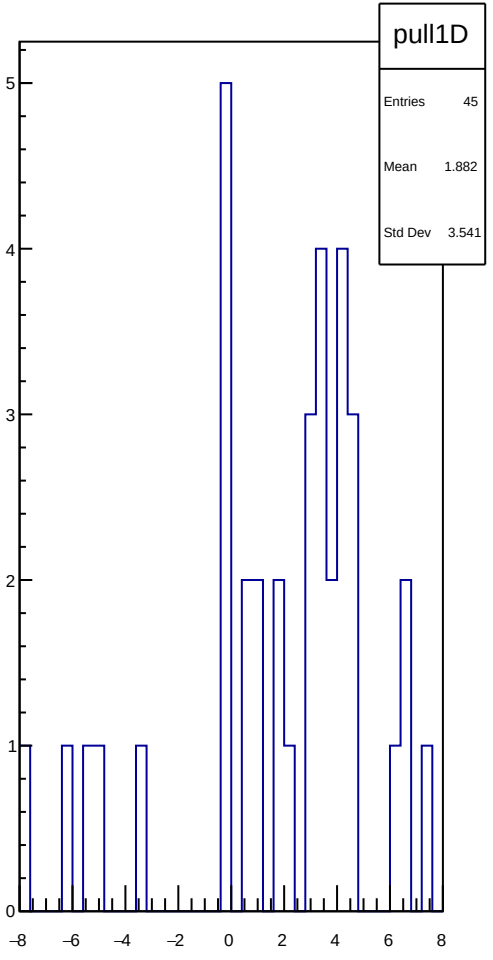

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 4770 / 44
p0 2.029 ± 0.01165
pull
Entries 45
Mean −66.05
Std Dev 90.74
pull1D
Entries 45
Mean −7.1
Std Dev 0.6817

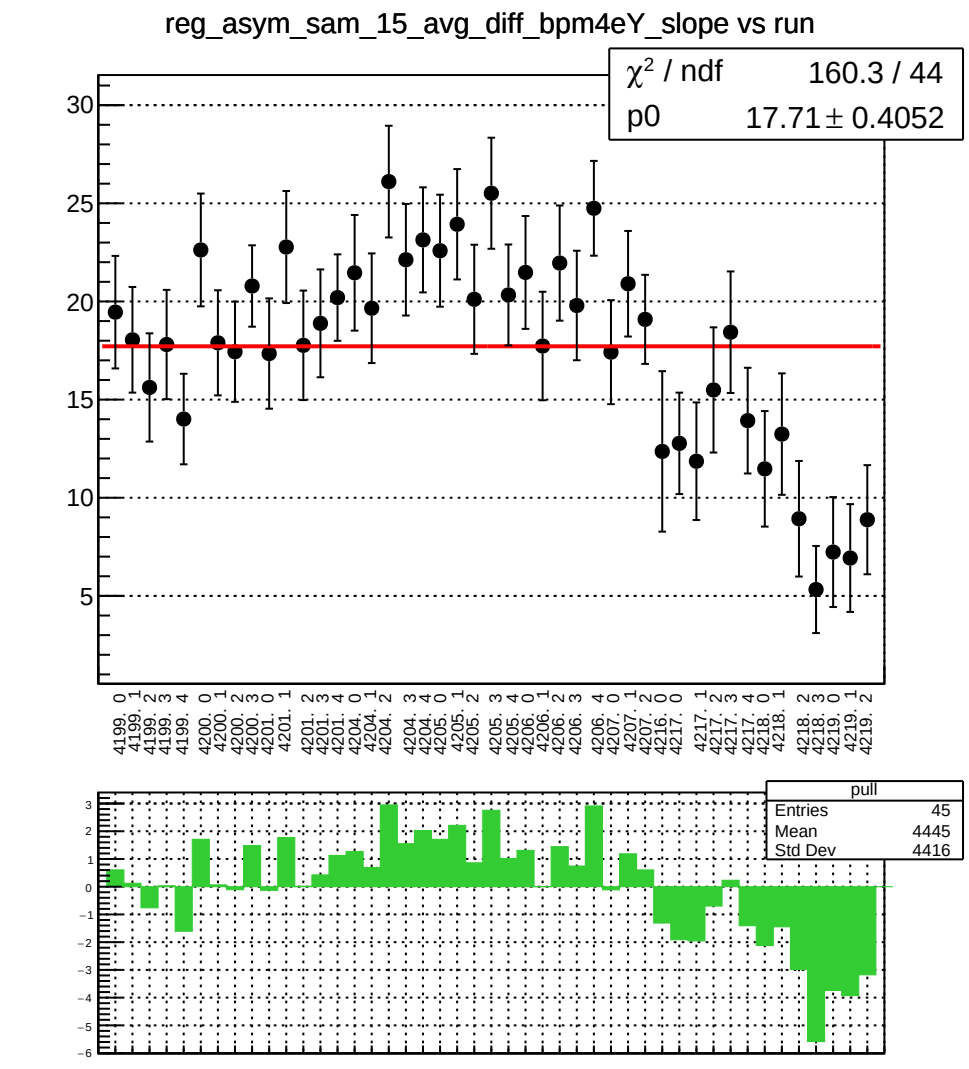

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 59.11 / 44
p0 6.935 ± 0.2901
pull
Entries 45
Mean 278.3
Std Dev 253.8
pull1D
Entries 45
Mean 0.04122
Std Dev 1.145

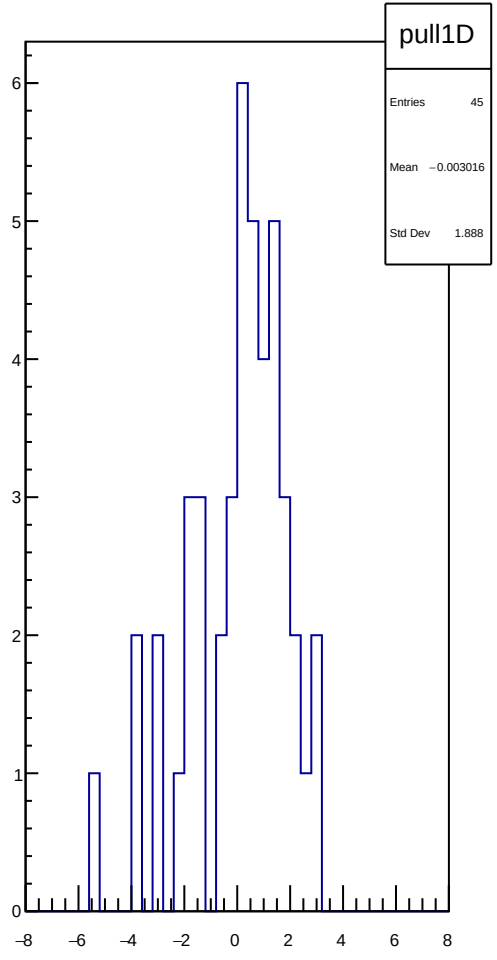

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.57 / 44
p0 −16.58 ± 0.2429
pull
Entries 45
Mean 64.94
Std Dev 61.52

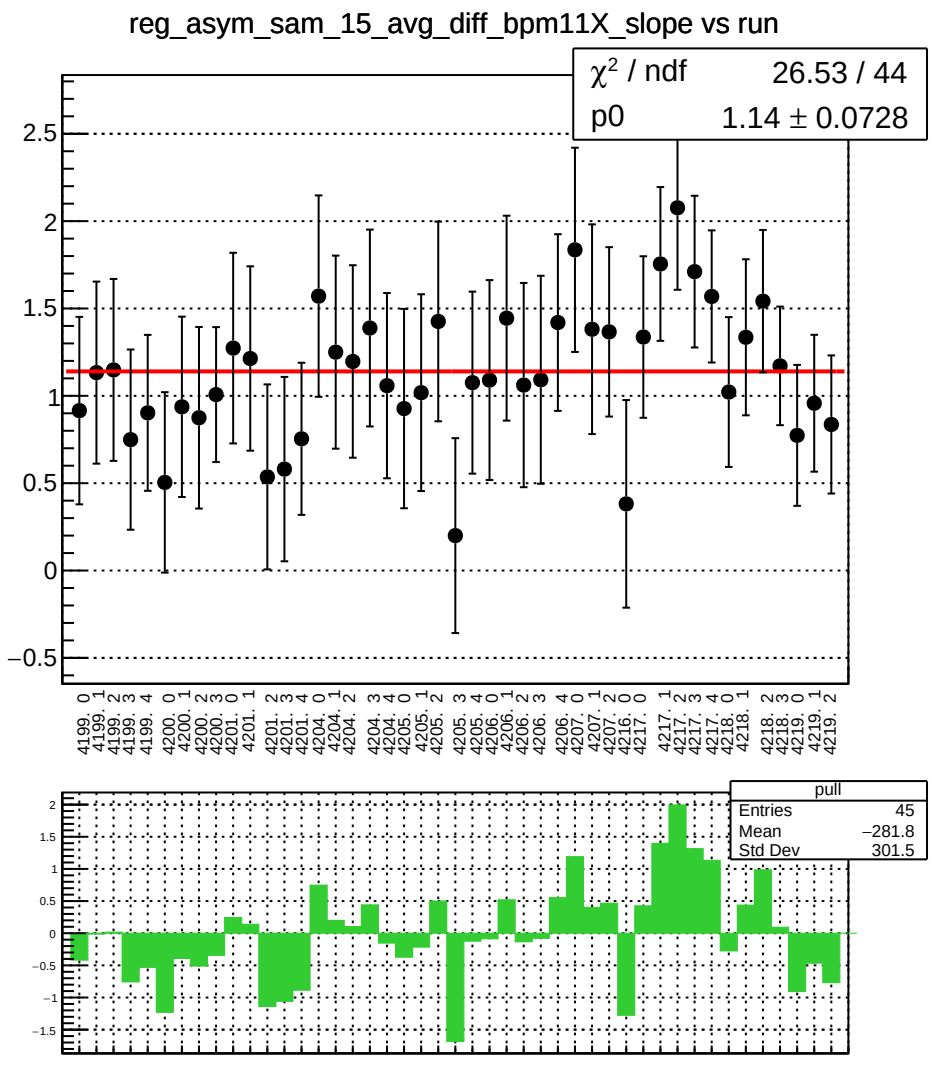

pull1D
Entries 45
Mean −0.04787
Std Dev 1.337

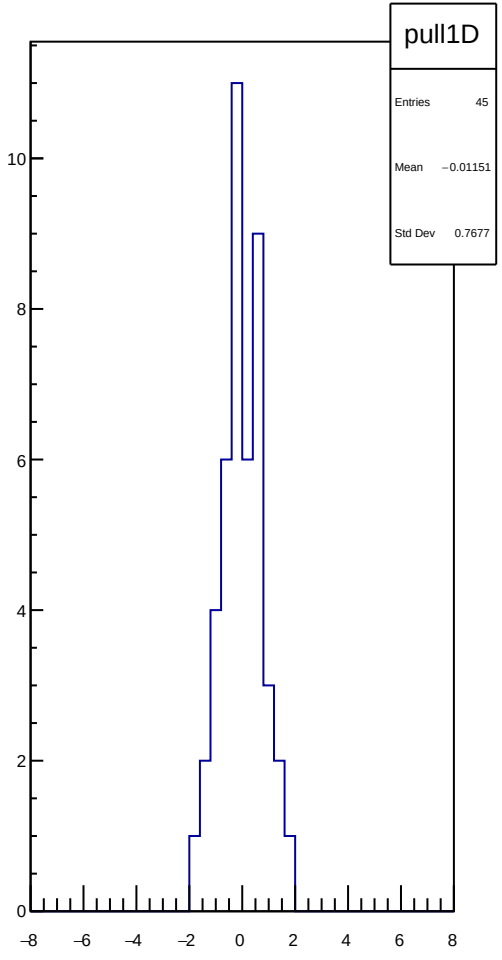

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1469 / 44
p0 −20.87 ± 0.05263
pull
Entries 45
Mean 242.4
Std Dev 216.7

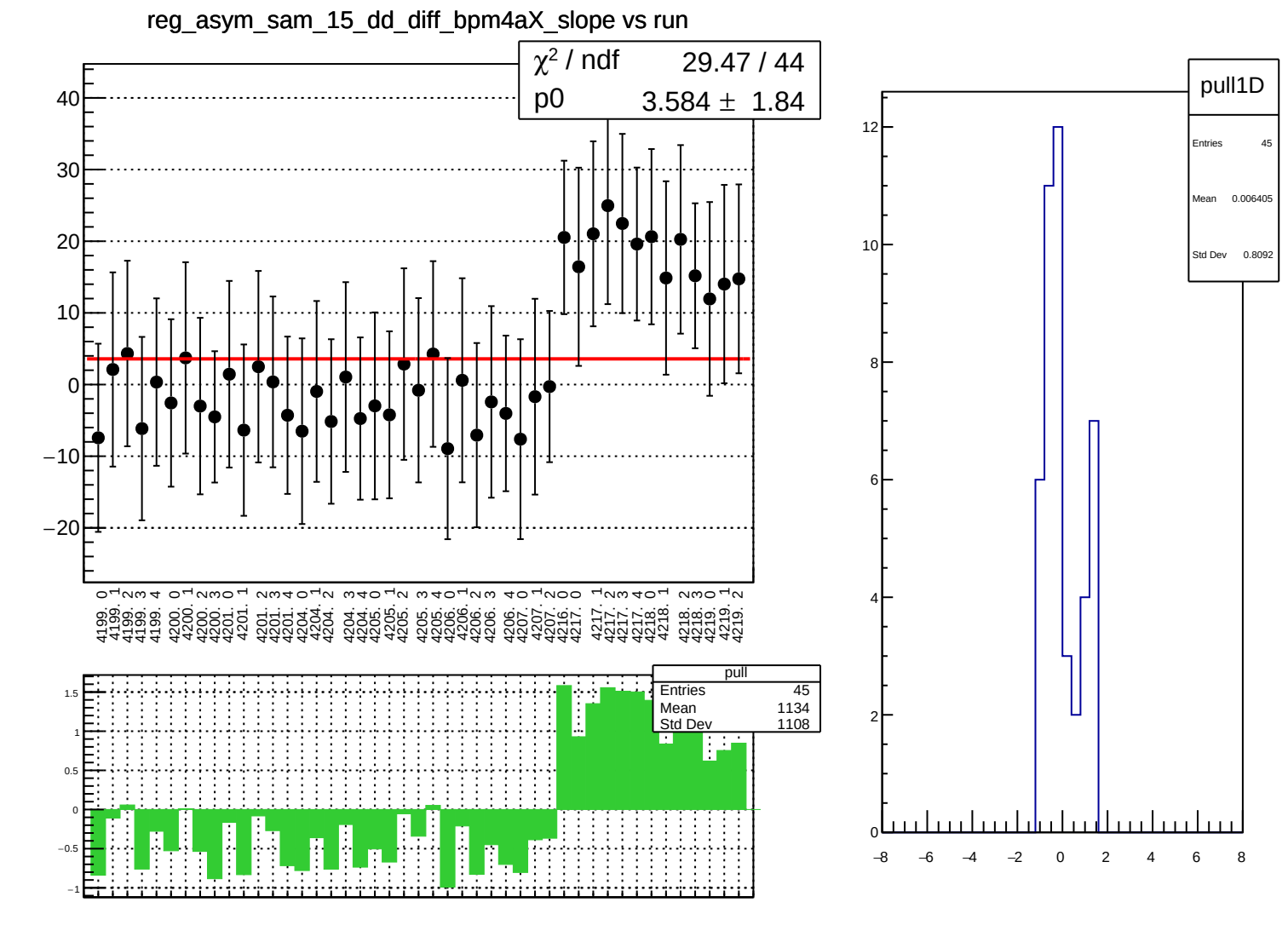

pull1D
Entries 45
Mean 1.882
Std Dev 3.541

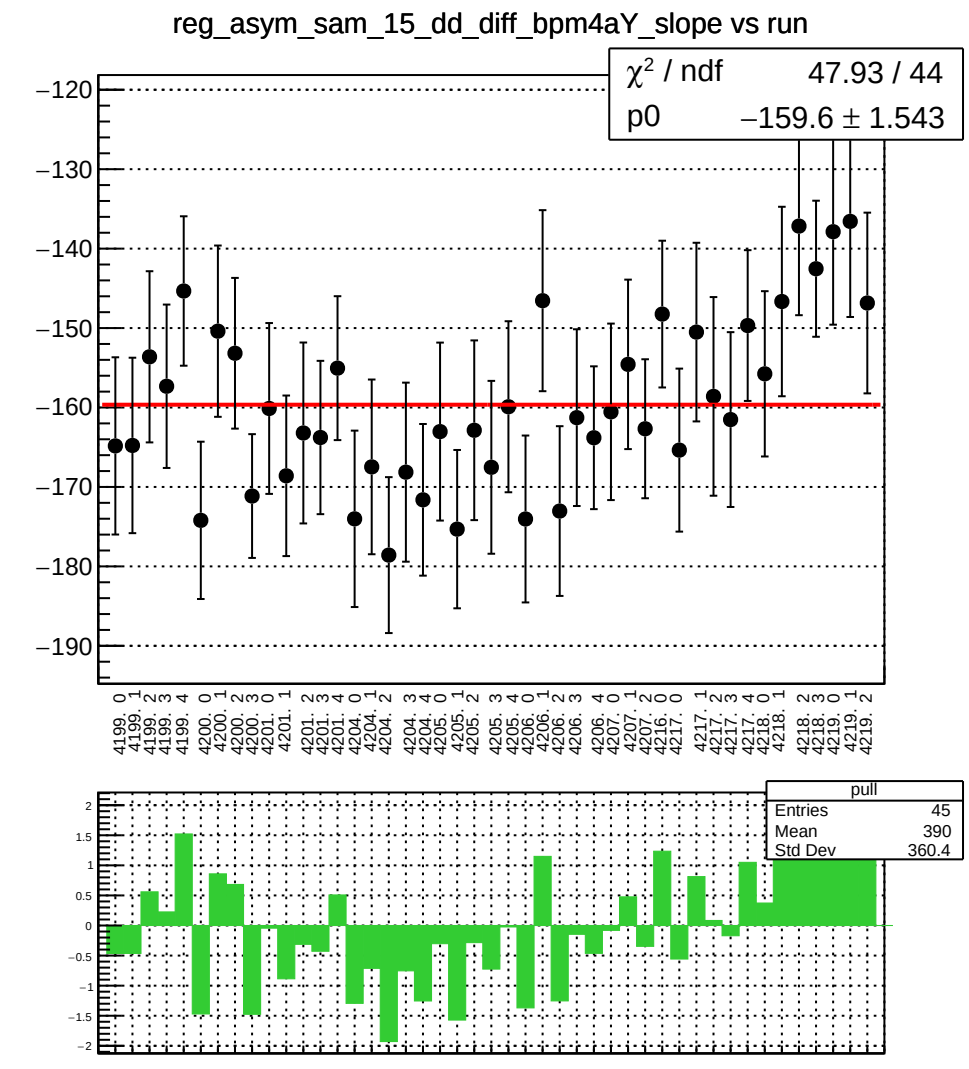

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 160.3 / 44
p0 17.71 ± 0.4052
pull
Entries 45
Mean 4445
Std Dev 4416

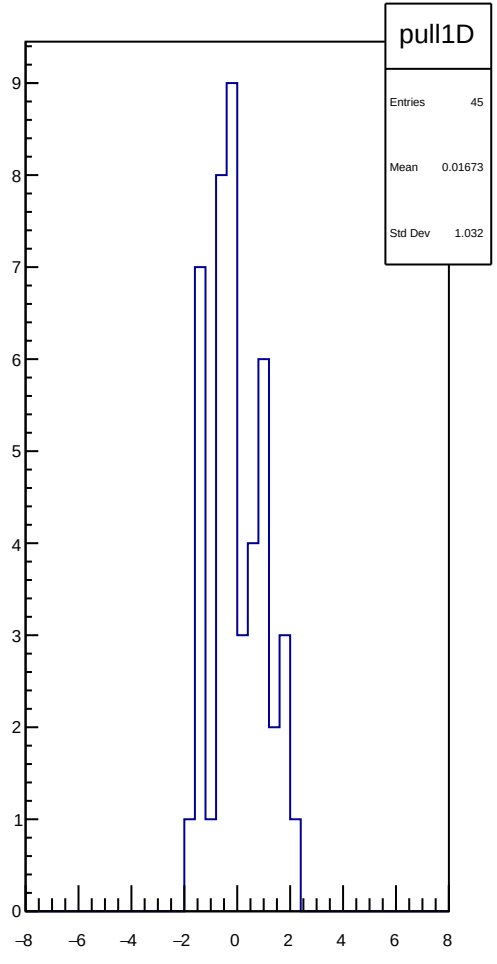

pull1D
Entries 45
Mean −0.003016
Std Dev 1.888

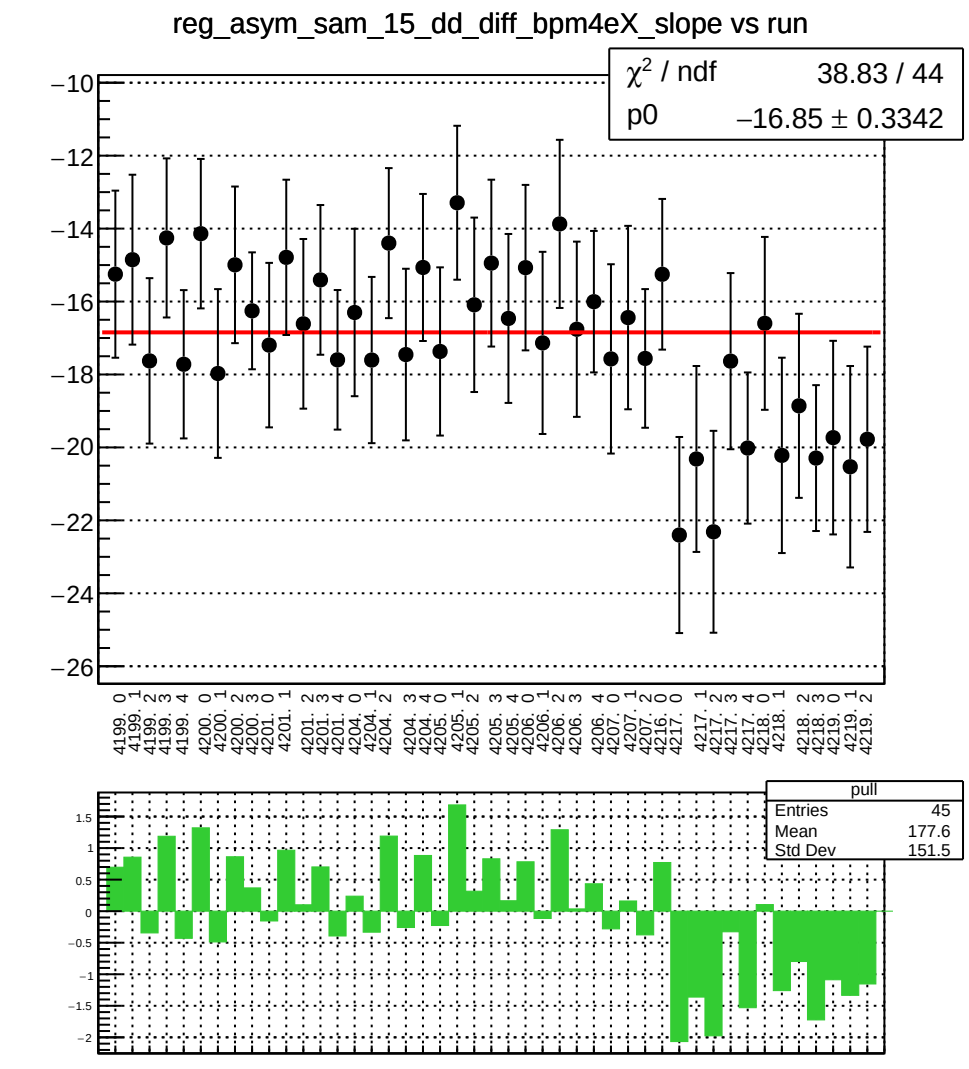

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 26.53 / 44
p0 1.14 ± 0.0728
pull
Entries 45
Mean −281.8
Std Dev 301.5

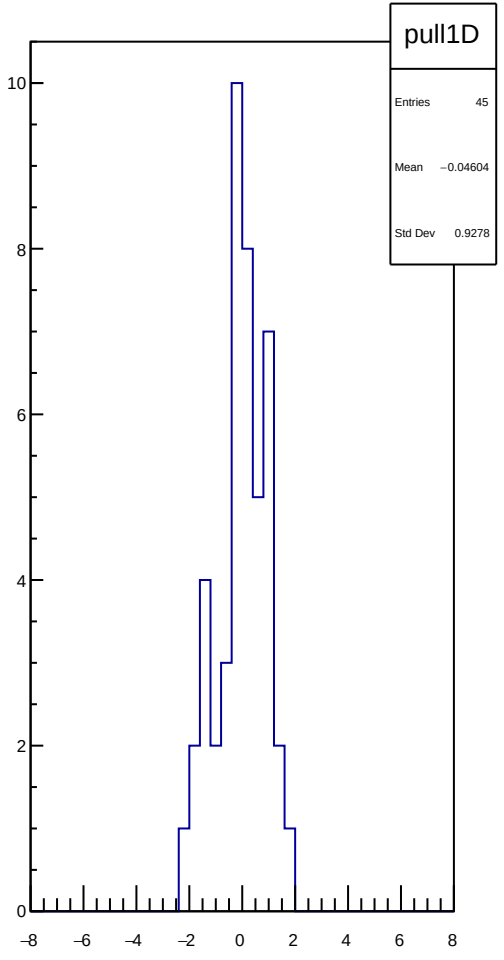

pull1D
Entries 45
Mean −0.01151
Std Dev 0.7677

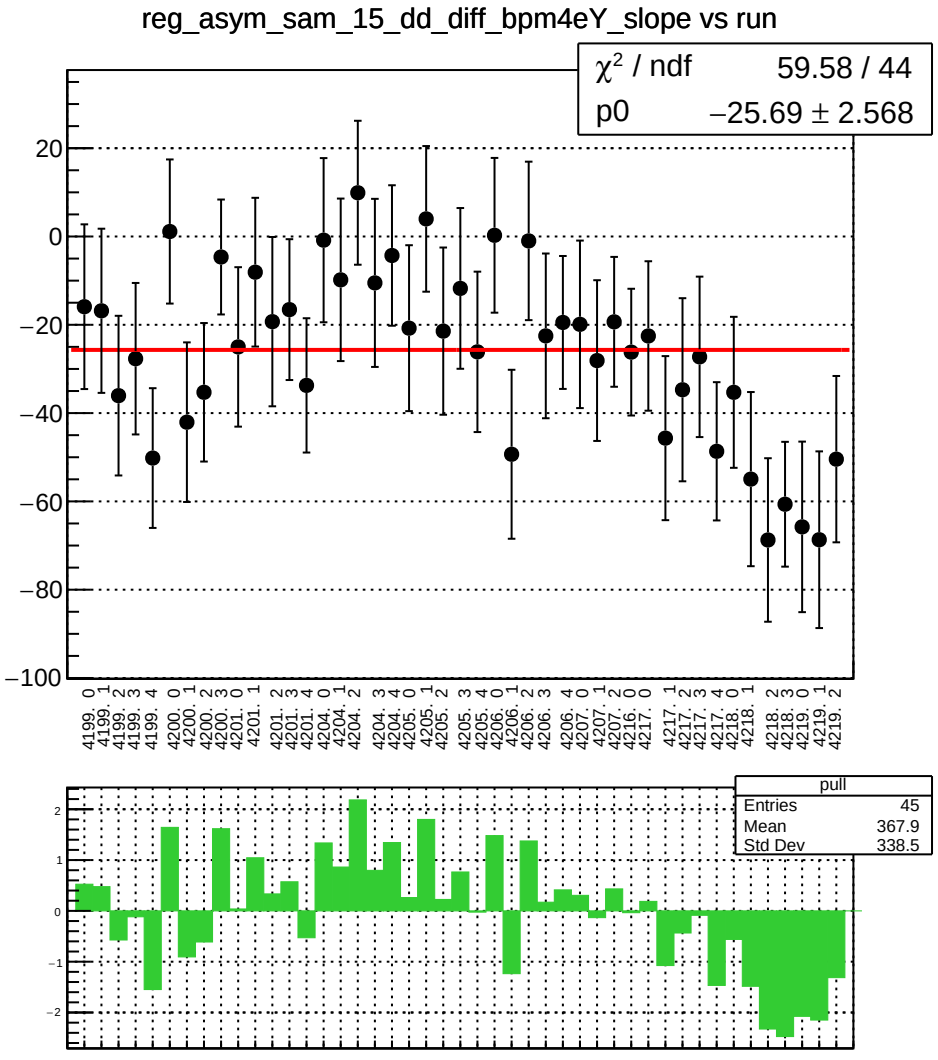

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.47 / 44
p0 3.584 ± 1.84
pull
Entries 45
Mean 1134
Std Dev 1108
pull1D
Entries 45
Mean 0.006405
Std Dev 0.8092

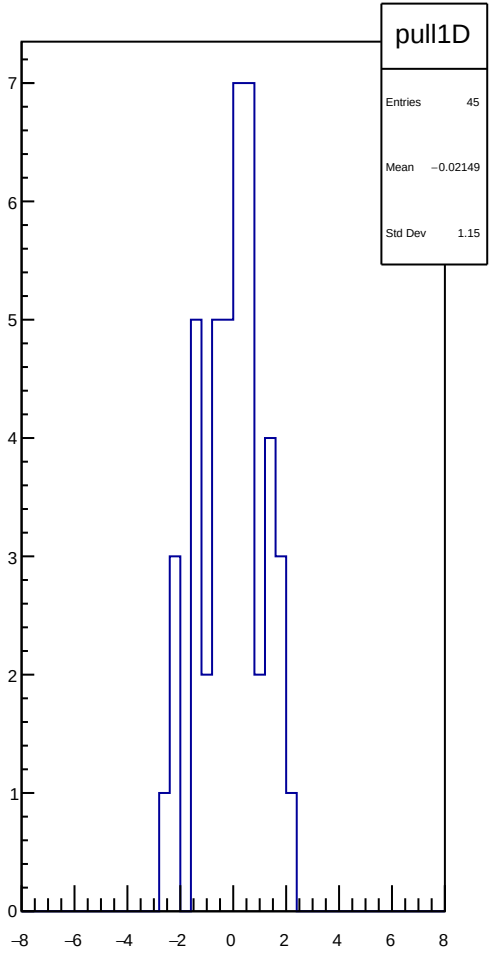

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.93 / 44
p0 −159.6 ± 1.543
pull
Entries 45
Mean 390
Std Dev 360.4

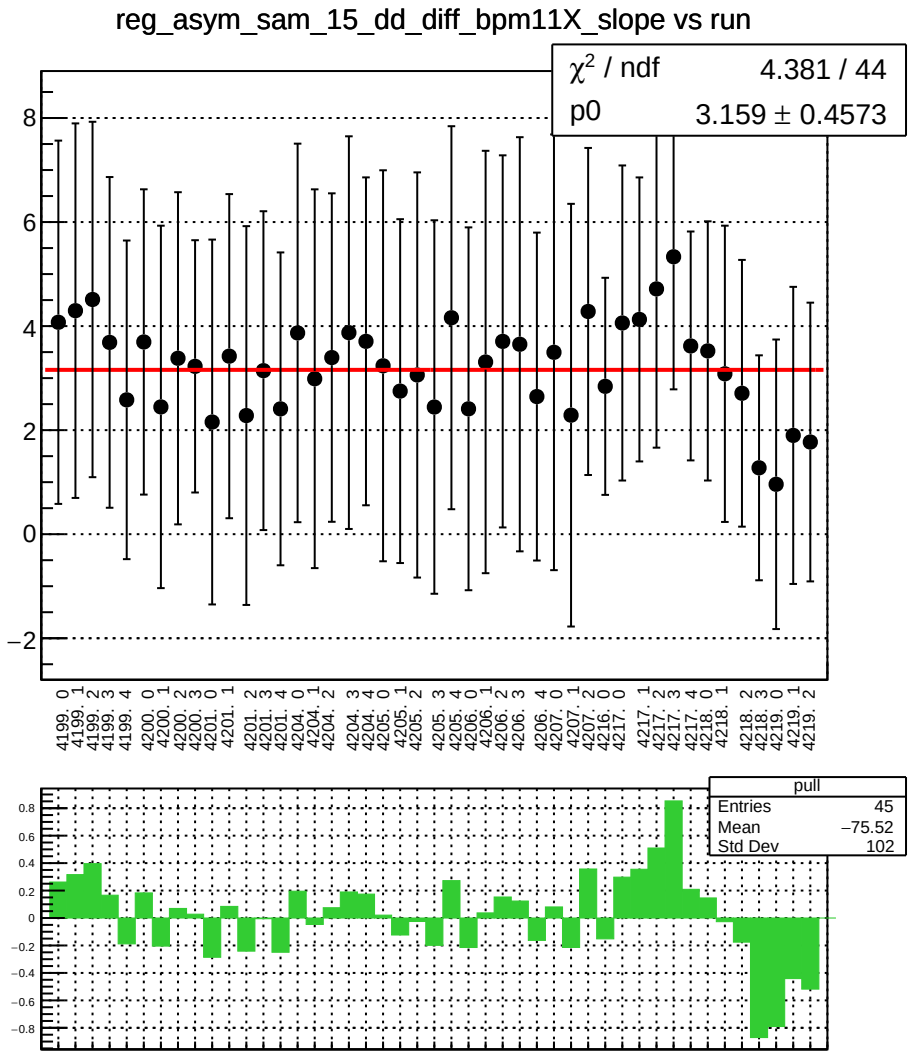

pull1D
Entries 45
Mean 0.01673
Std Dev 1.032

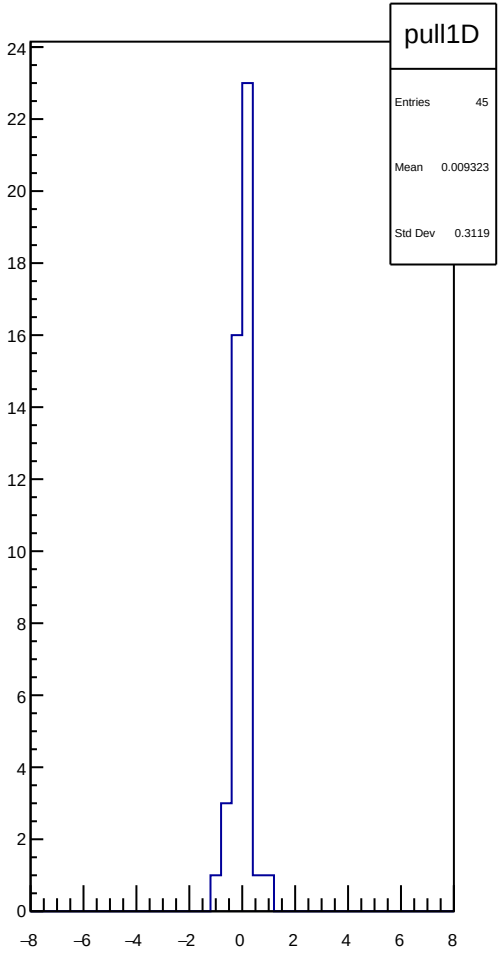

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.83 / 44
p0 −16.85 ± 0.3342
pull
Entries 45
Mean 177.6
Std Dev 151.5

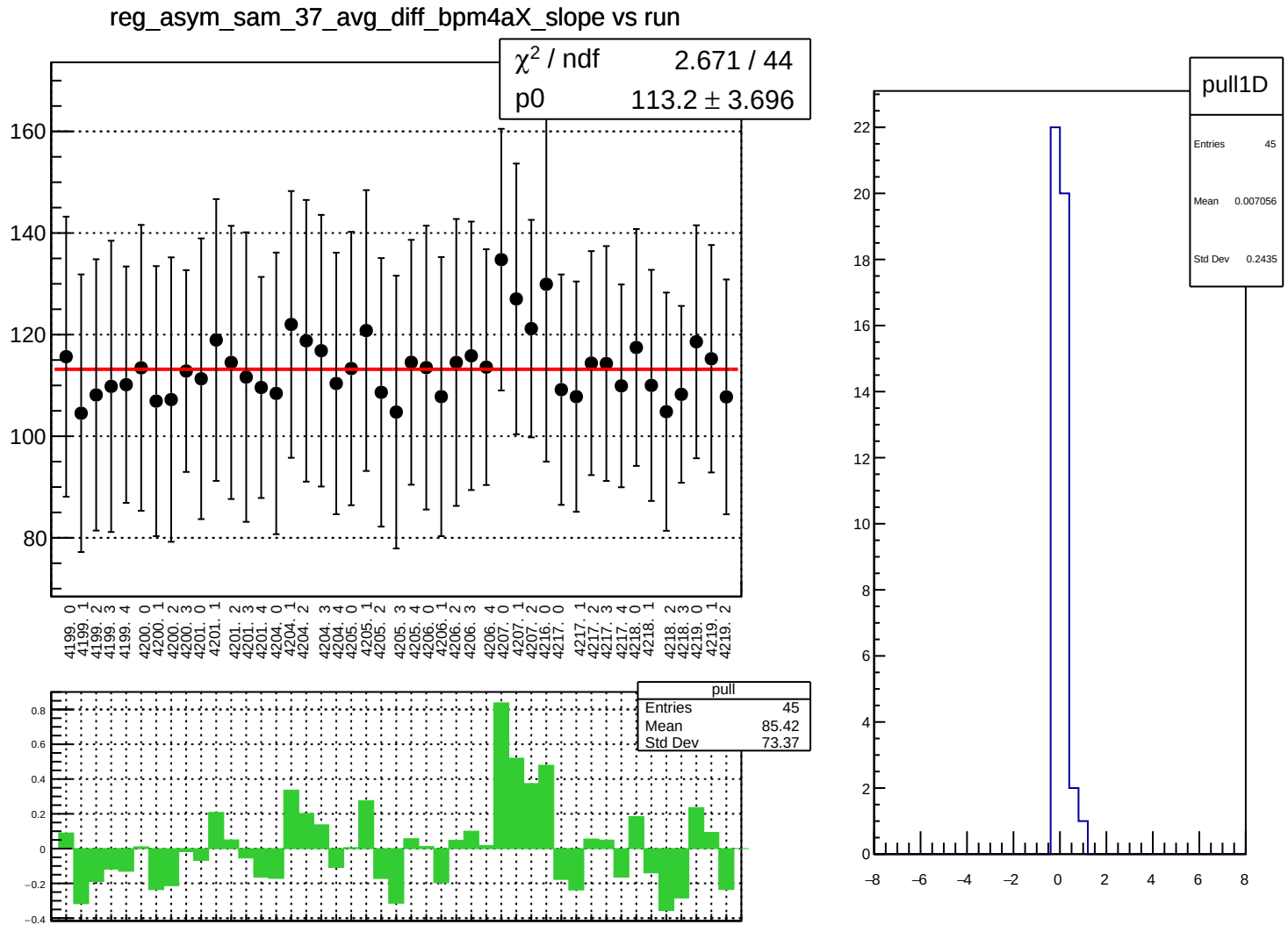

pull1D
Entries 45
Mean −0.04604
Std Dev 0.9278

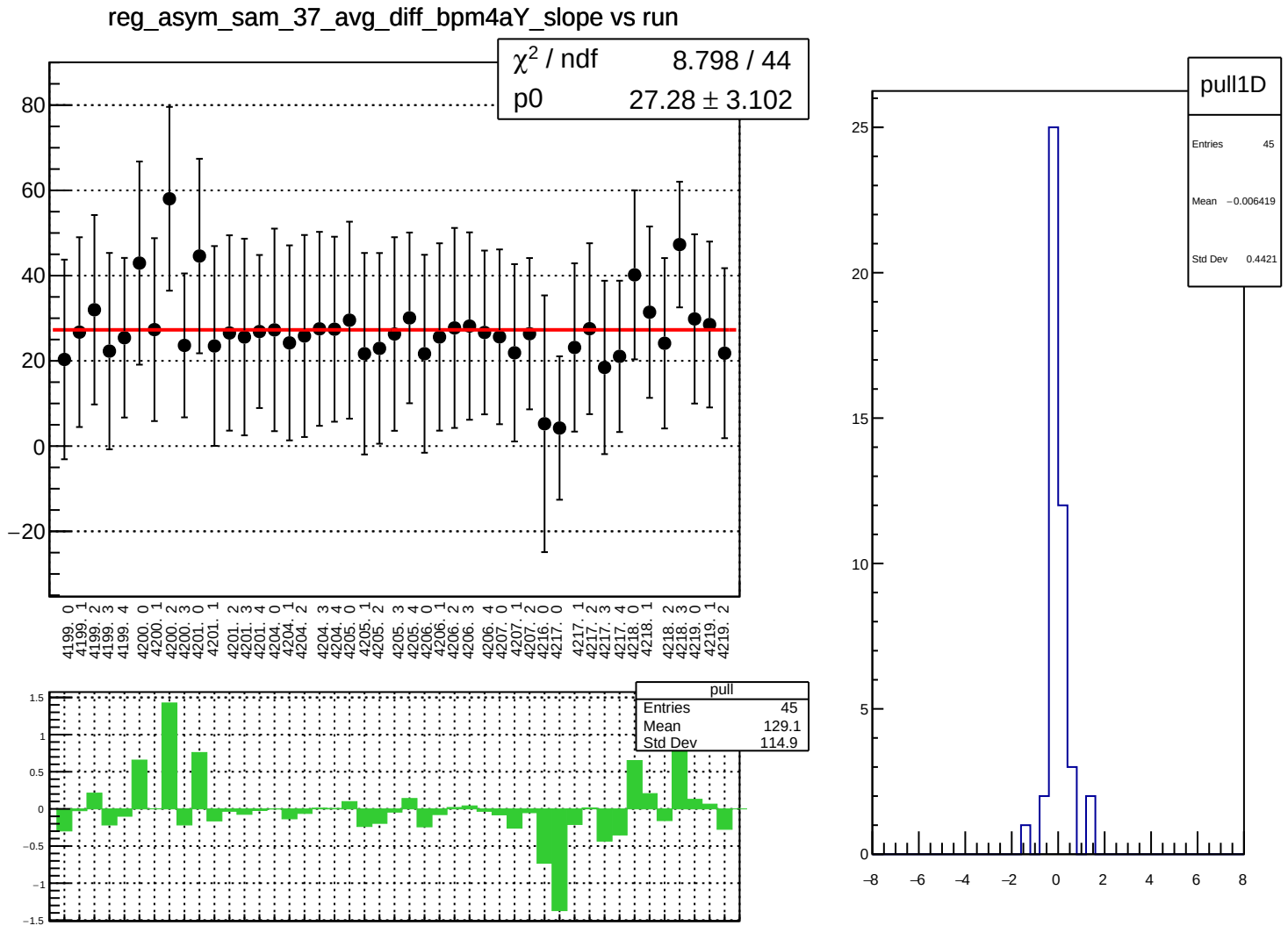

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.58 / 44
p0 −25.69 ± 2.568
pull
Entries 45
Mean 367.9
Std Dev 338.5

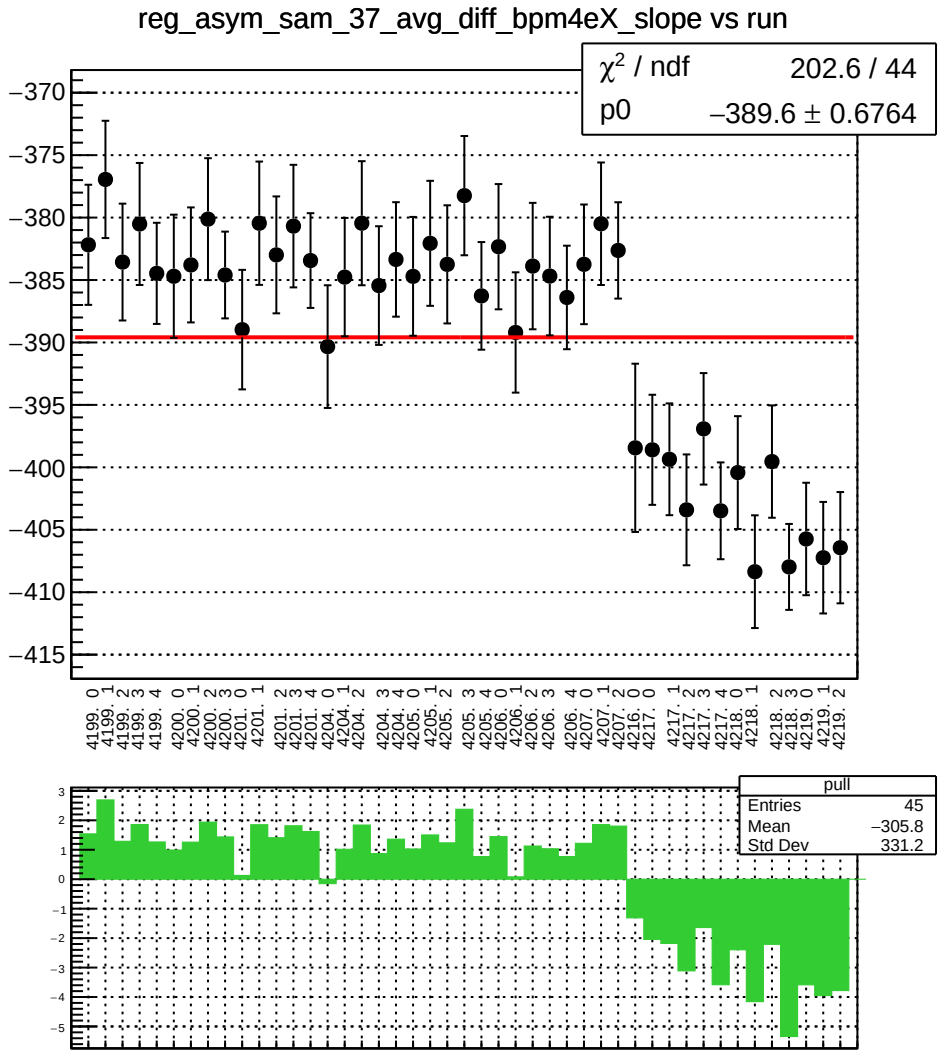

pull1D
Entries 45
Mean −0.02149
Std Dev 1.15

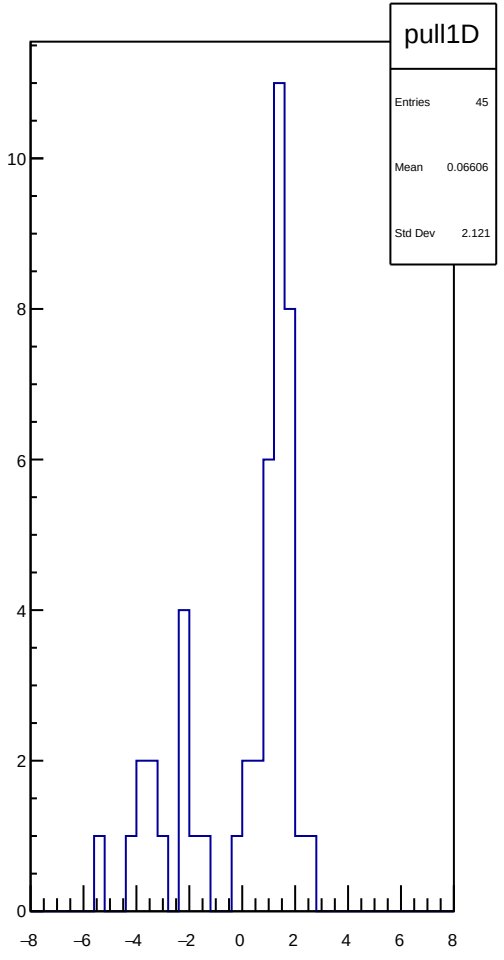

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 4.381 / 44
p0 3.159 ± 0.4573
pull
Entries 45
Mean −75.52
Std Dev 102

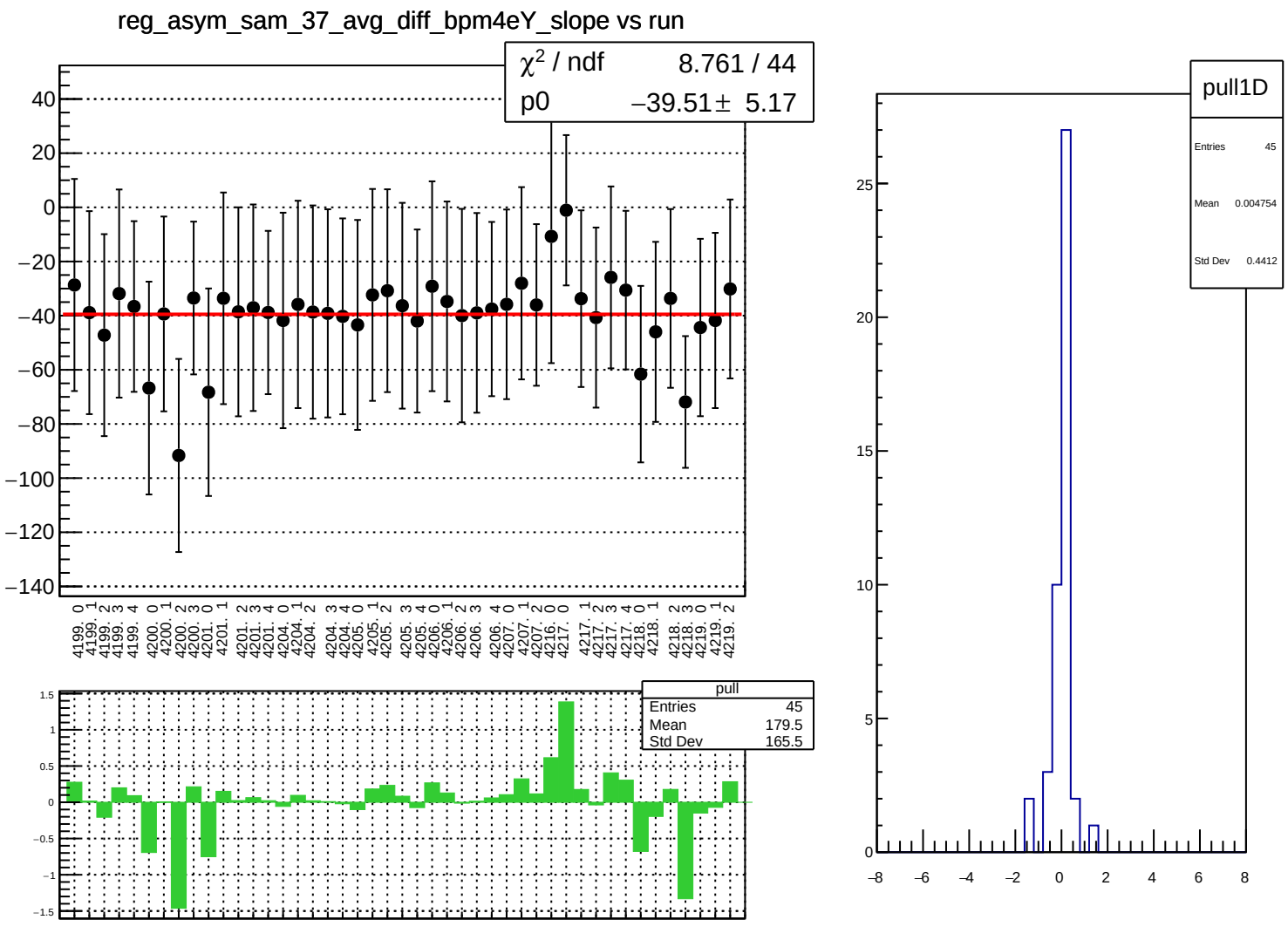

pull1D
Entries 45
Mean 0.009323
Std Dev 0.3119

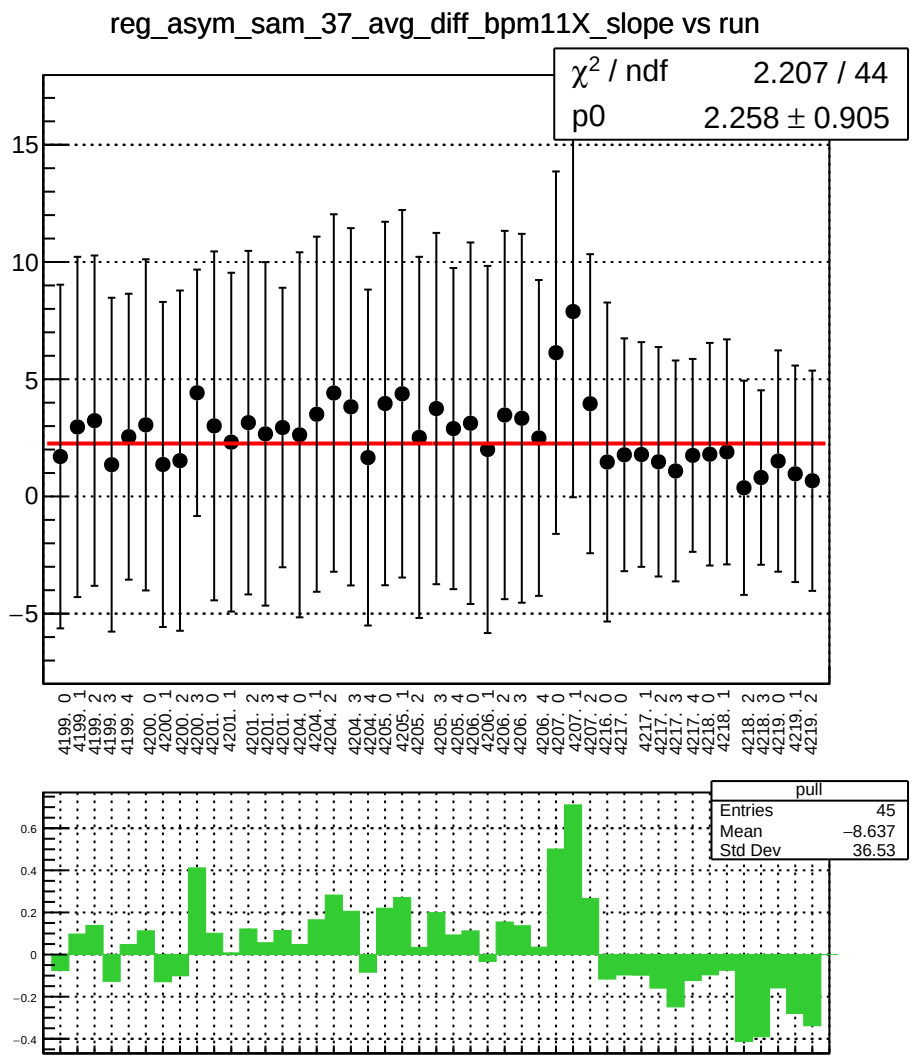

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.671 / 44
p0 113.2 ± 3.696
160
140
120
100
80
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 85.42
Std Dev 73.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.007056
Std Dev 0.2435
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

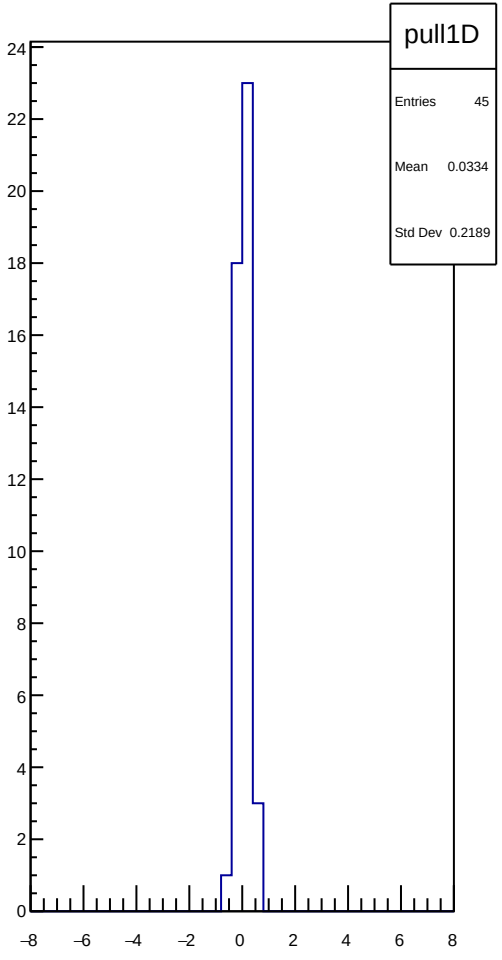

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.798 / 44
p0 27.28 ± 3.102
pull
Entries 45
Mean 129.1
Std Dev 114.9
pull1D
Entries 45
Mean −0.006419
Std Dev 0.4421

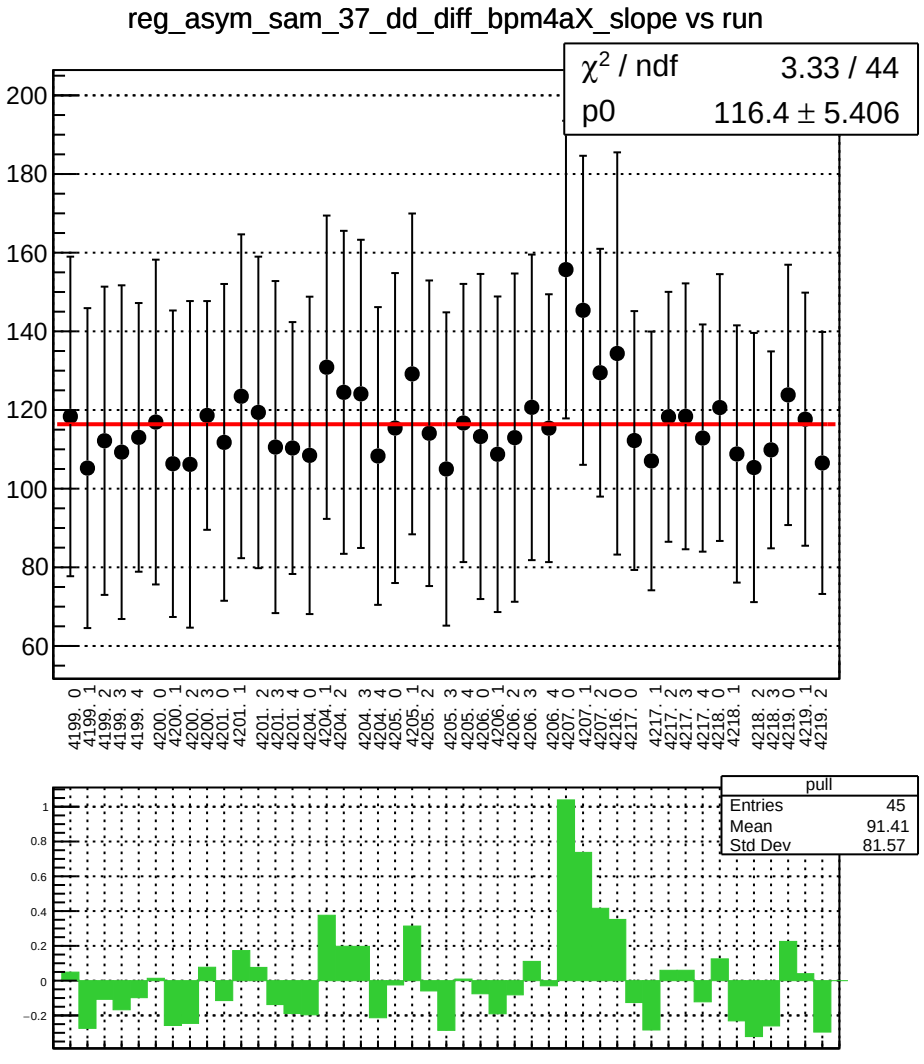

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 202.6 / 44
p0 −389.6 ± 0.6764
pull
Entries 45
Mean −305.8
Std Dev 331.2

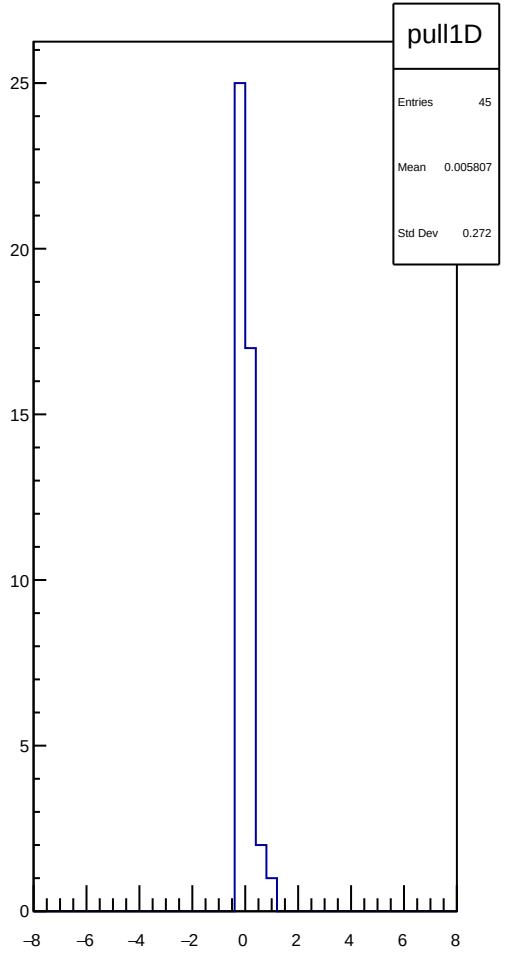

pull1D
Entries 45
Mean 0.06606
Std Dev 2.121

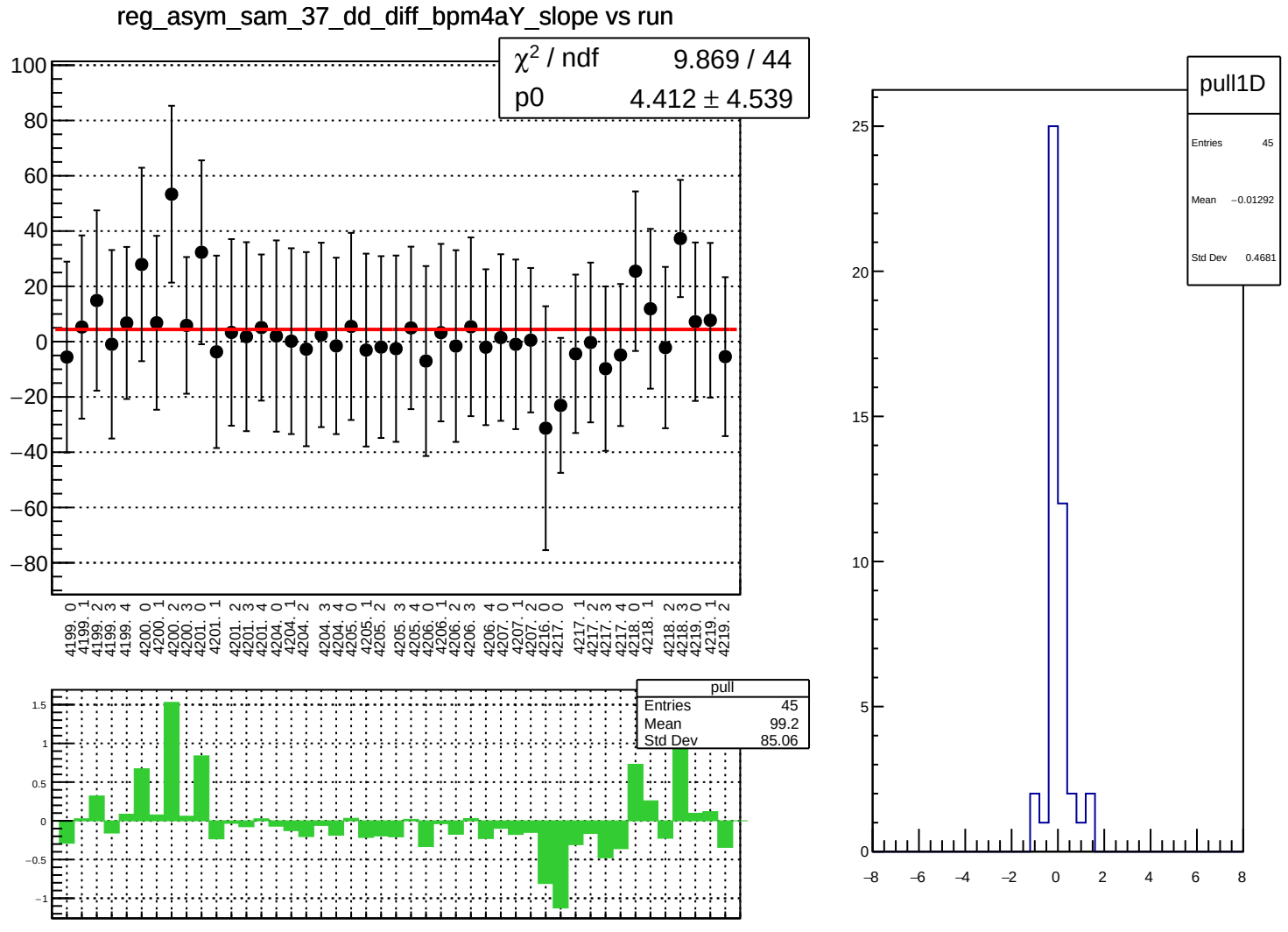

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.761 / 44
p0 −39.51± 5.17
pull
Entries 45
Mean 179.5
Std Dev 165.5
pull1D
Entries 45
Mean 0.004754
Std Dev 0.4412

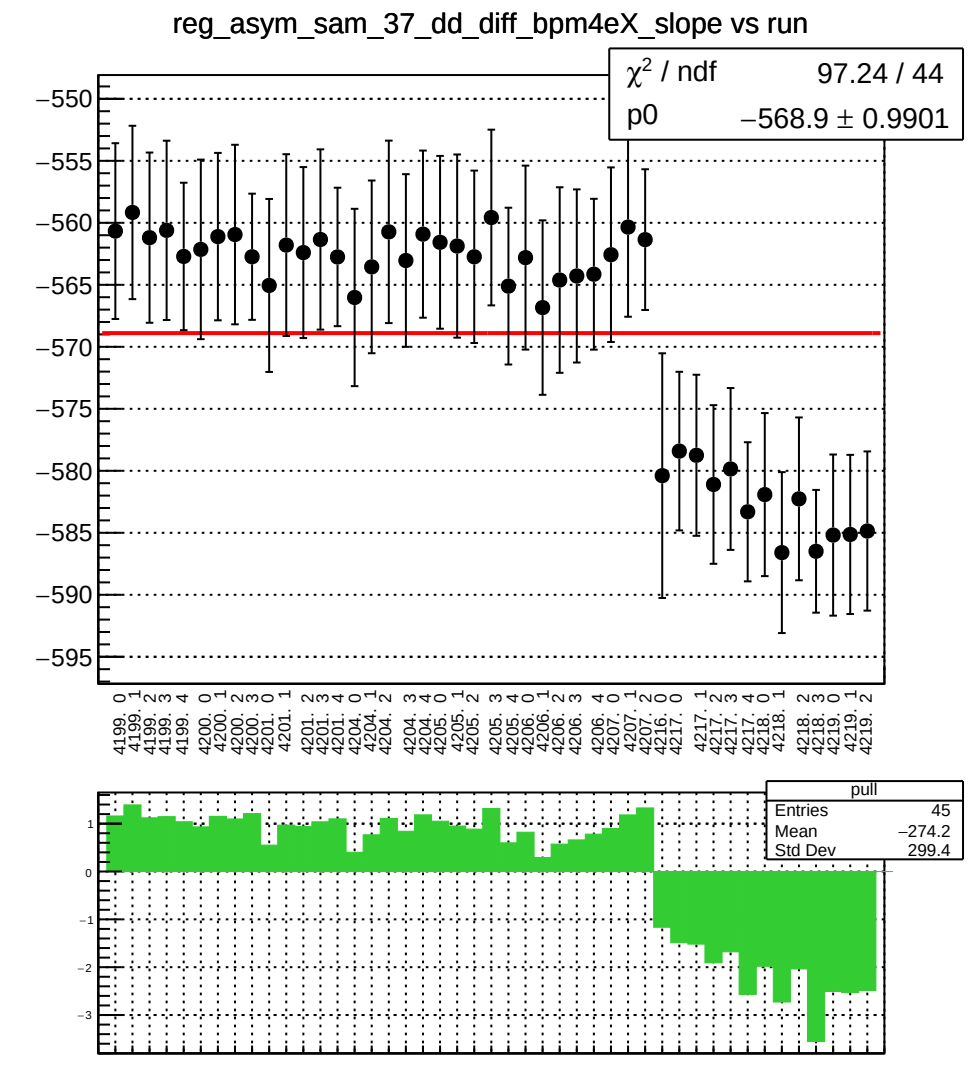

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 2.207 / 44
p0 2.258 ± 0.905
pull
Entries 45
Mean −8.637
Std Dev 36.53

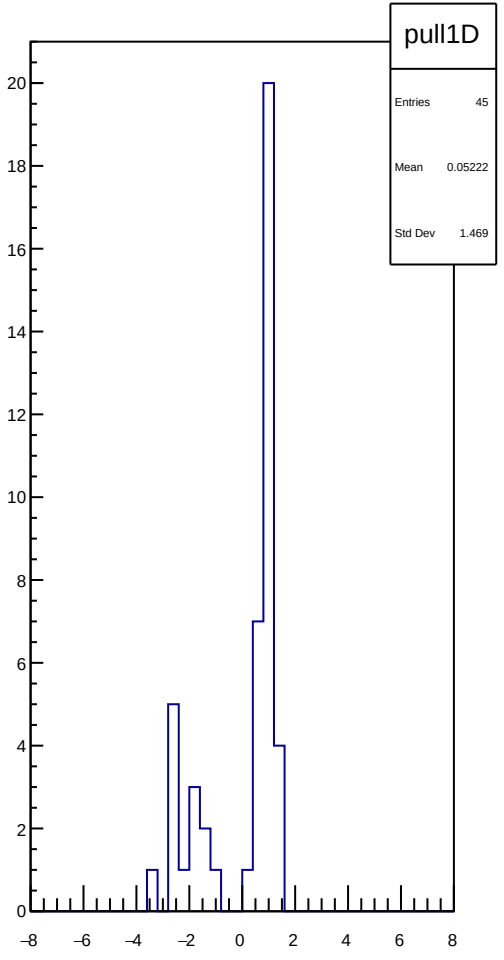

pull1D
Entries 45
Mean 0.0334
Std Dev 0.2189

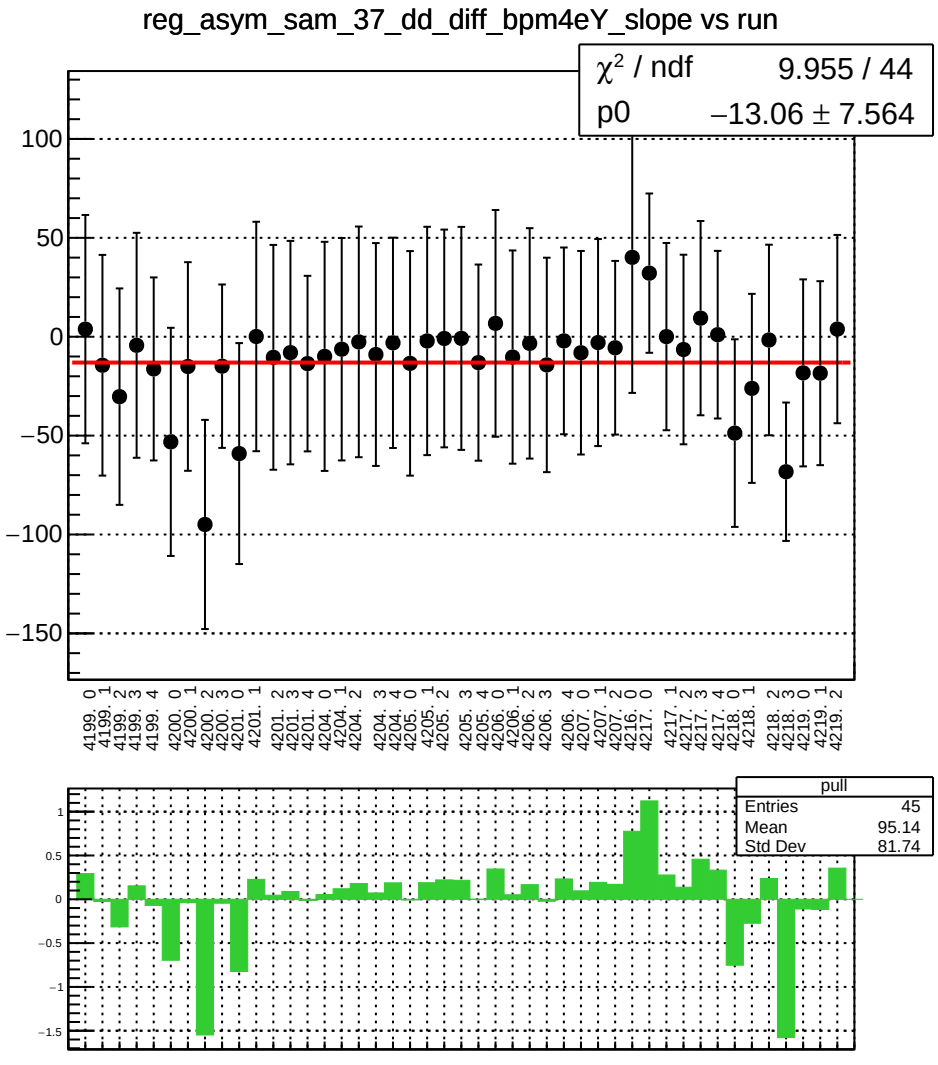

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.33 / 44
p0 116.4 ± 5.406
pull
Entries 45
Mean 91.41
Std Dev 81.57

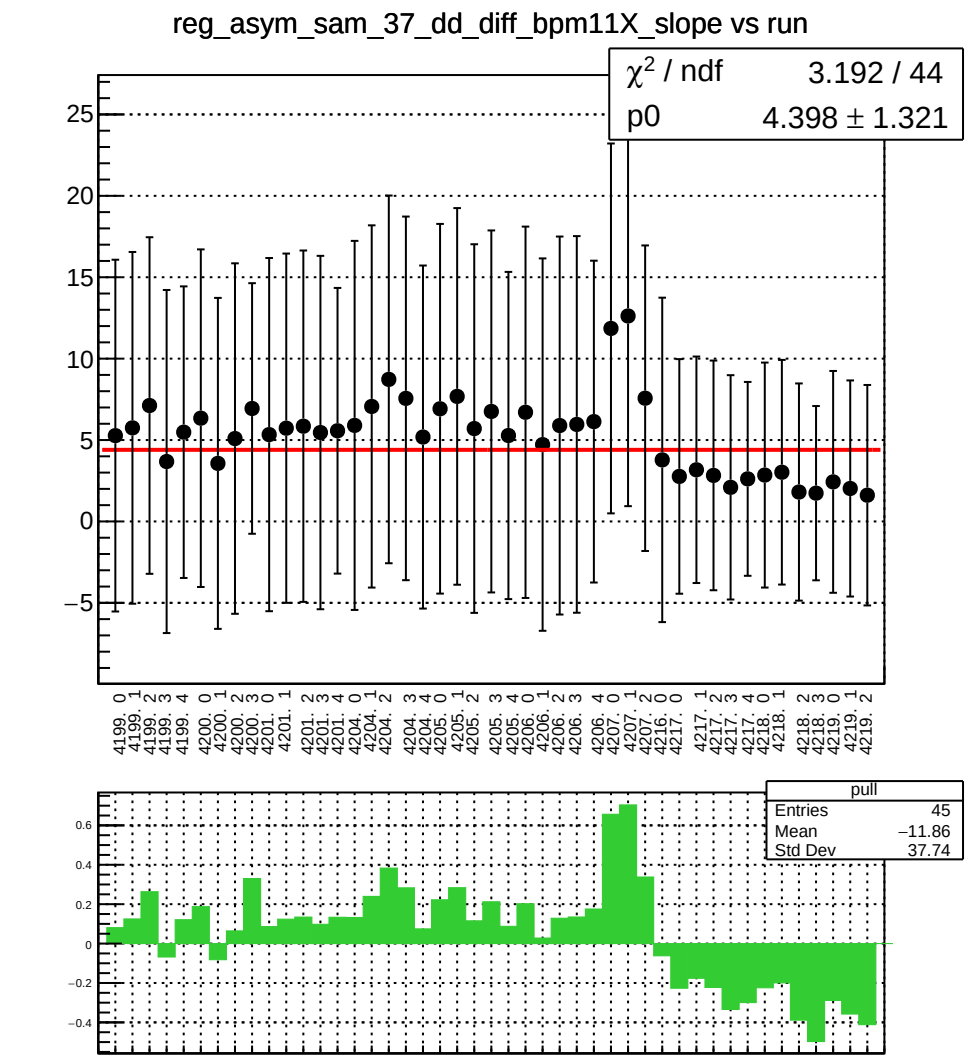

pull1D
Entries 45
Mean 0.005807
Std Dev 0.272

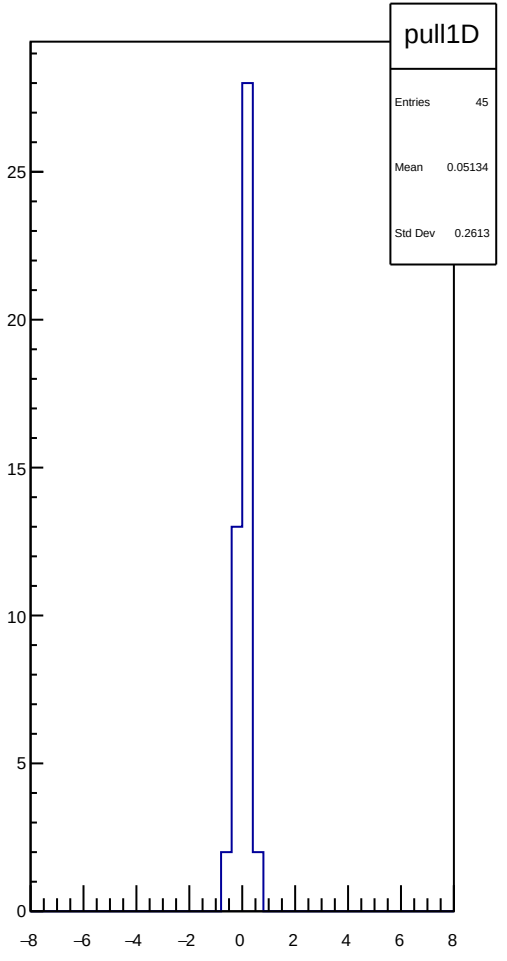

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.869 / 44
p0 4.412 ± 4.539
pull
Entries 45
Mean 99.2
Std Dev 85.06
pull1D
Entries 45
Mean −0.01292
Std Dev 0.4681

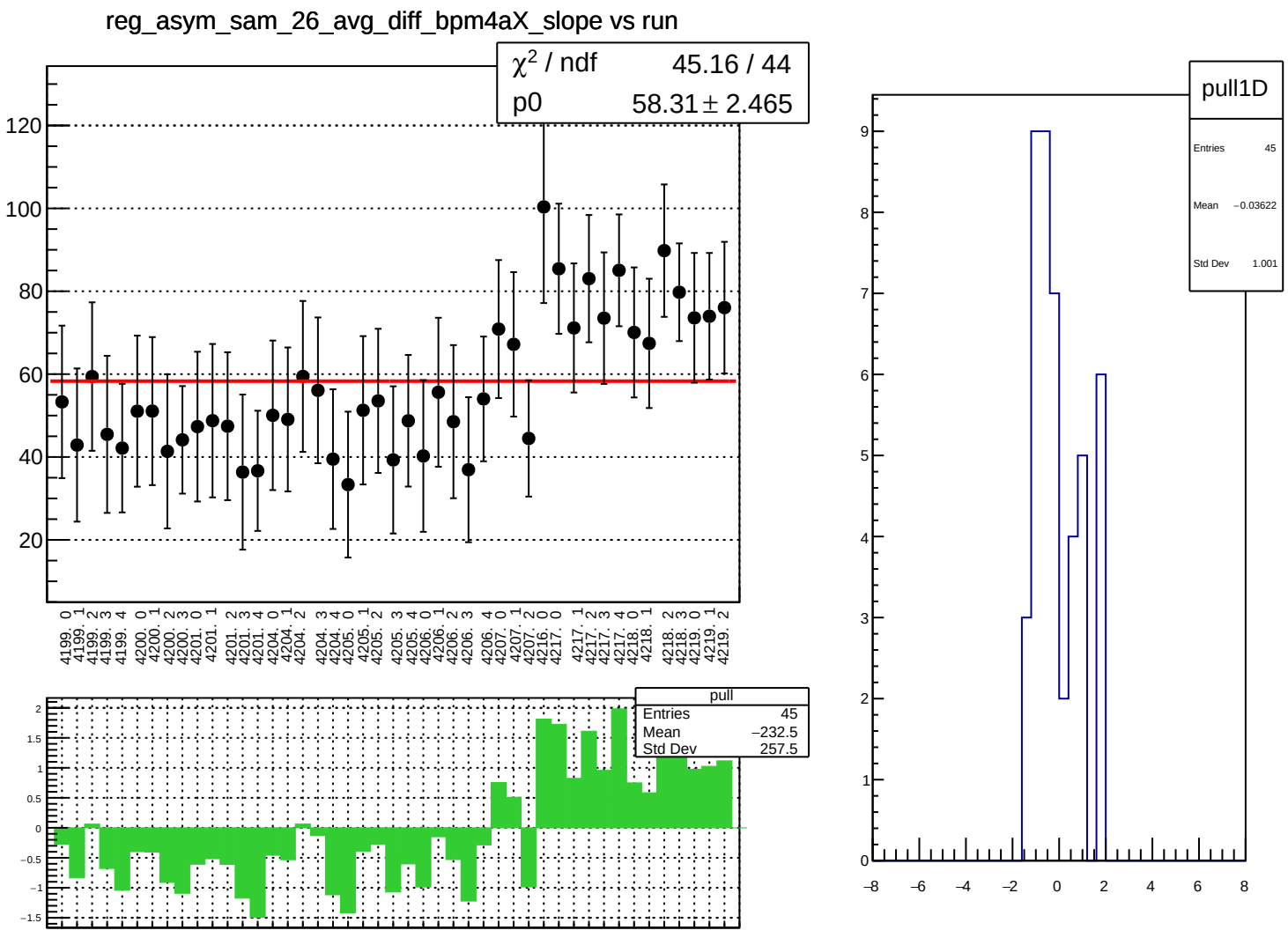

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.24 / 44
p0 −568.9 ± 0.9901
pull
Entries 45
Mean −274.2
Std Dev 299.4

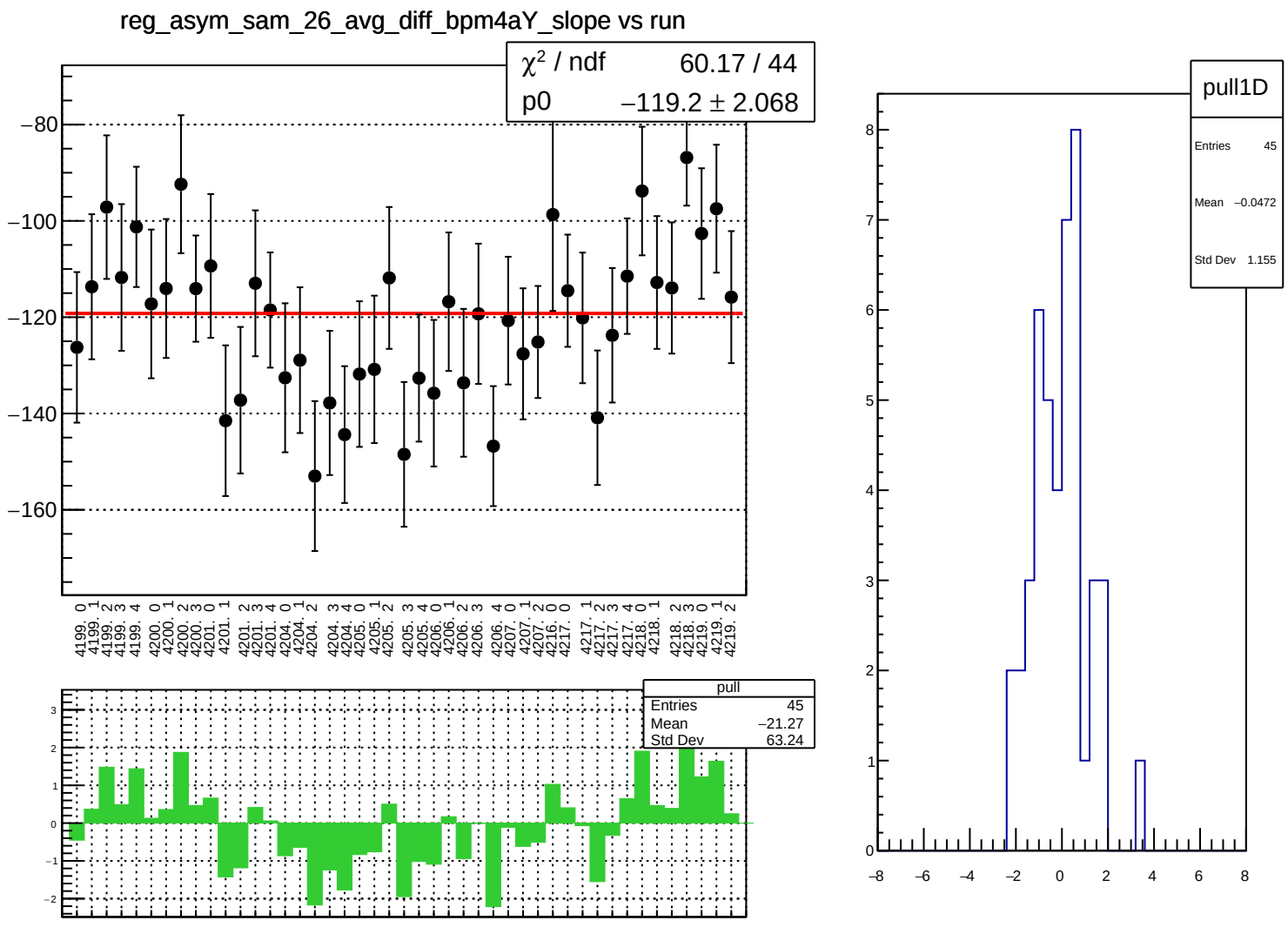

pull1D
Entries 45
Mean 0.05222
Std Dev 1.469

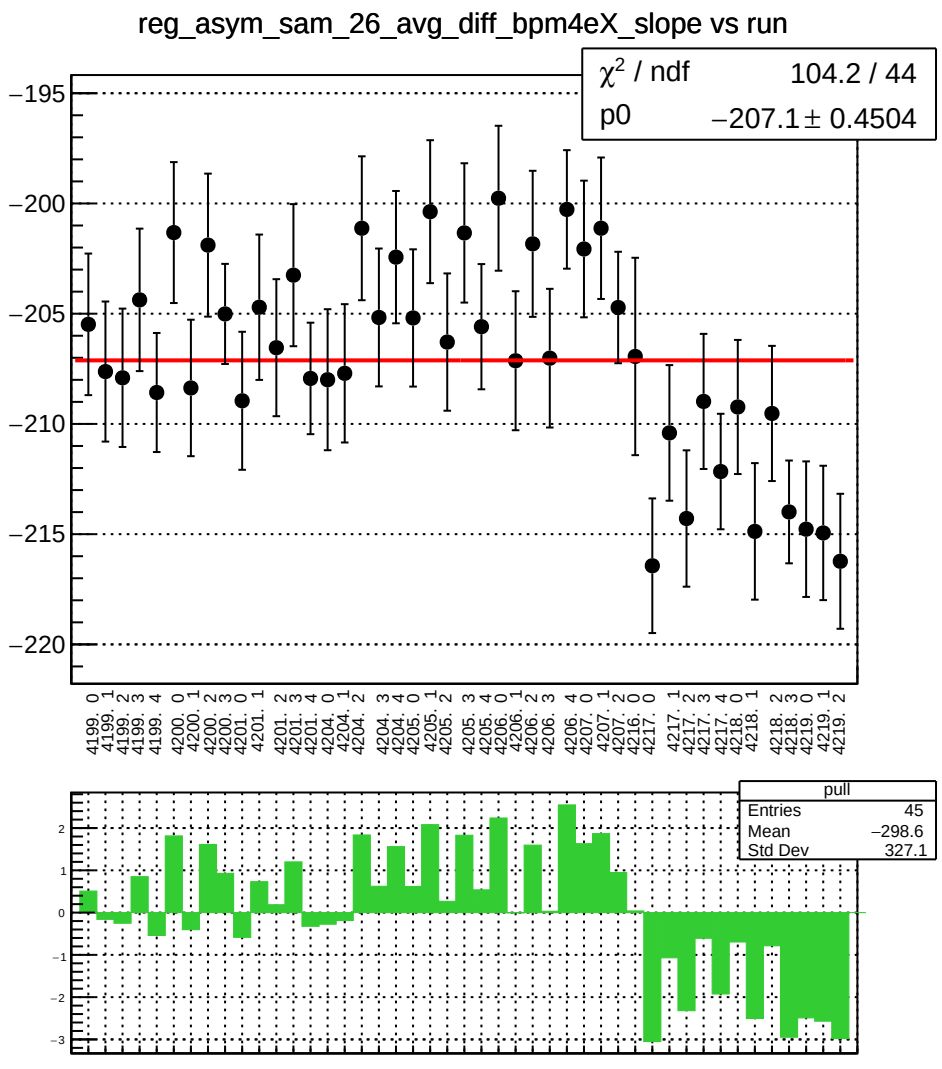

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.955 / 44
p0 −13.06 ± 7.564
100
50
0
−50
−100
−150
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 95.14
Std Dev 81.74
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01272
Std Dev 0.4702
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

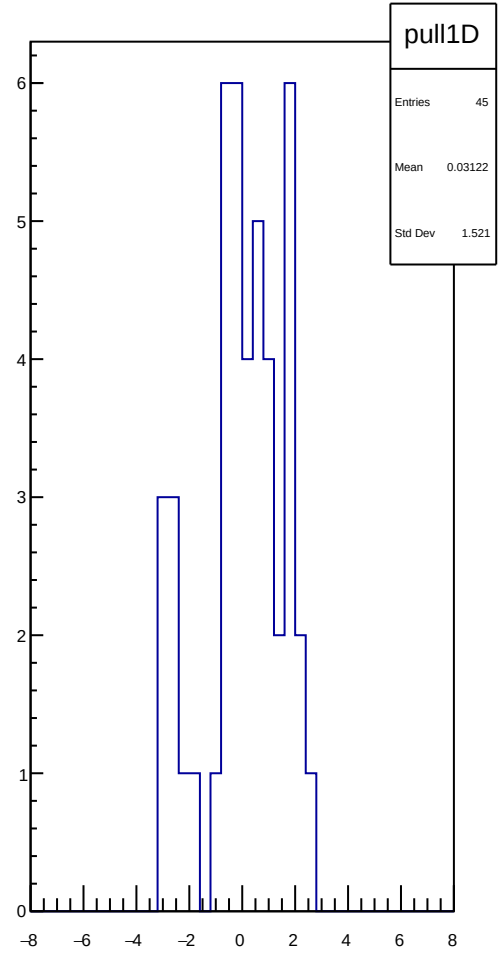

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 3.192 / 44
p0 4.398 ± 1.321
25
20
15
10
5
0
−5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −11.86
Std Dev 37.74
0.6
0.4
0.2
0
−0.2
−0.4

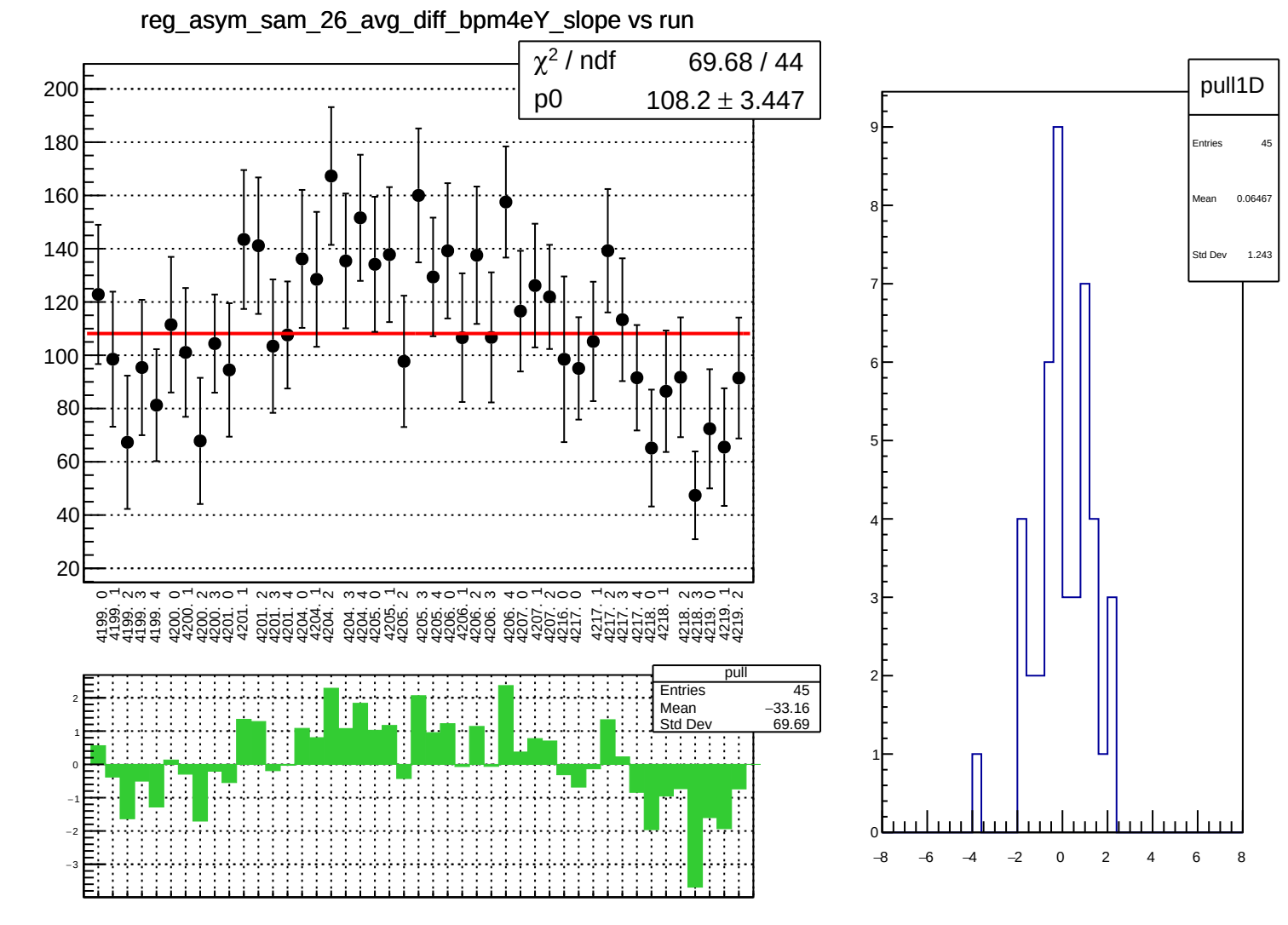

pull1D
Entries 45
Mean 0.05134
Std Dev 0.2613
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

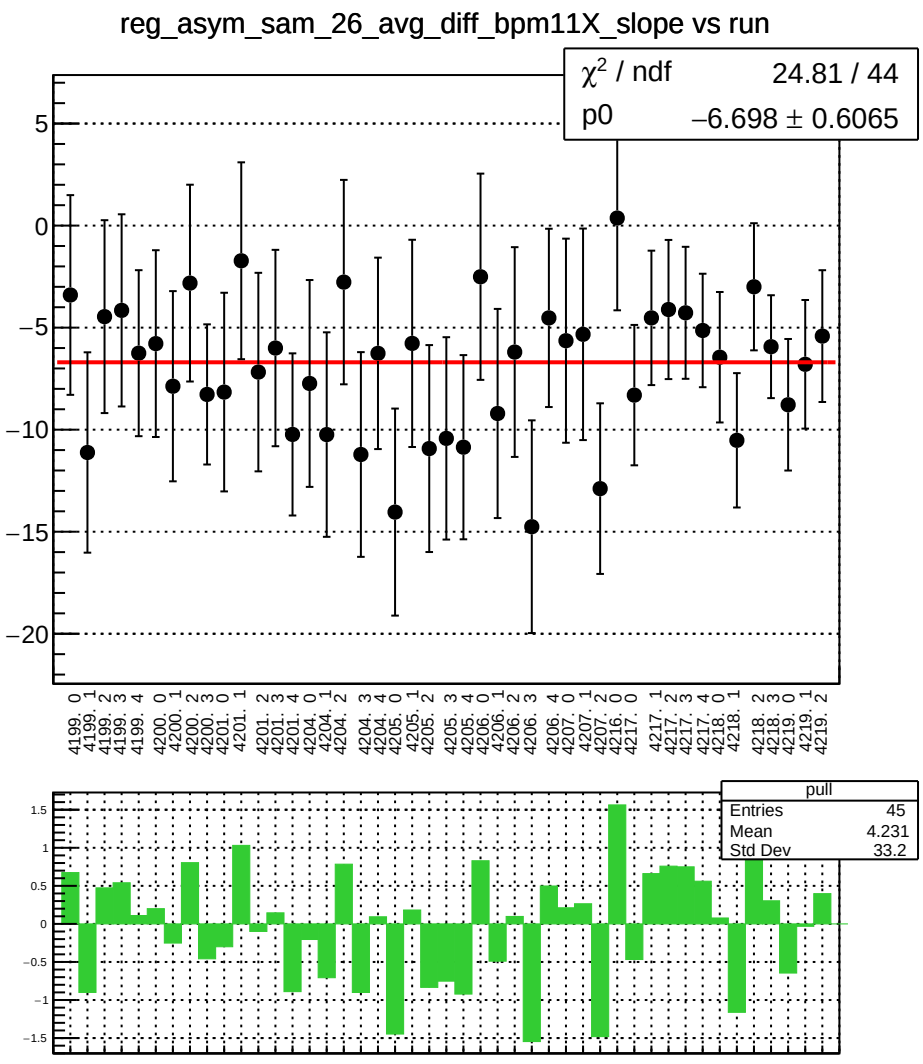

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 45.16 / 44
p0 58.31 ± 2.465
120
100
80
60
40
20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −232.5
Std Dev 257.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.03622
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

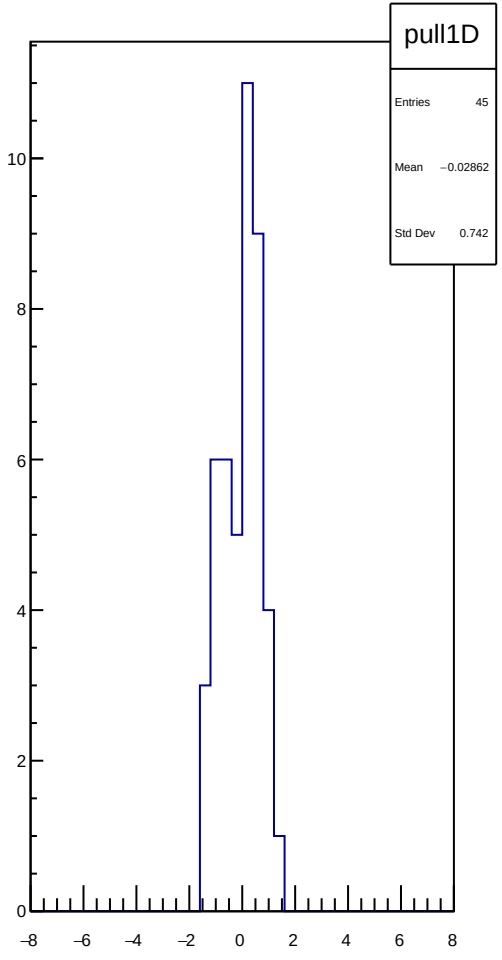

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.17 / 44
p0 −119.2 ± 2.068
−80
−100
−120
−140
−160
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −21.27
Std Dev 63.24
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0472
Std Dev 1.155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

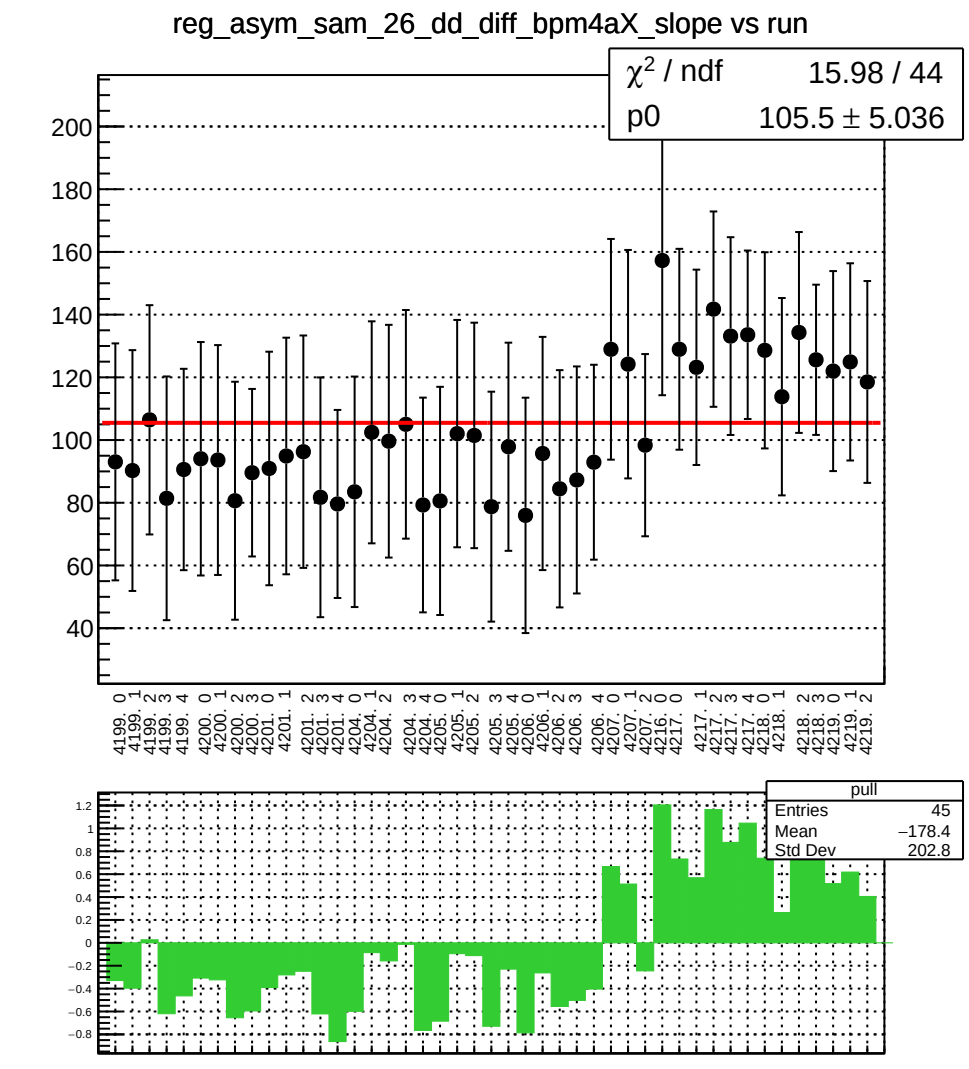

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.2 / 44
p0 −207.1 ± 0.4504
−195
−200
−205
−210
−215
−220
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −298.6
Std Dev 327.1
2
1
0
−1
−2
−3

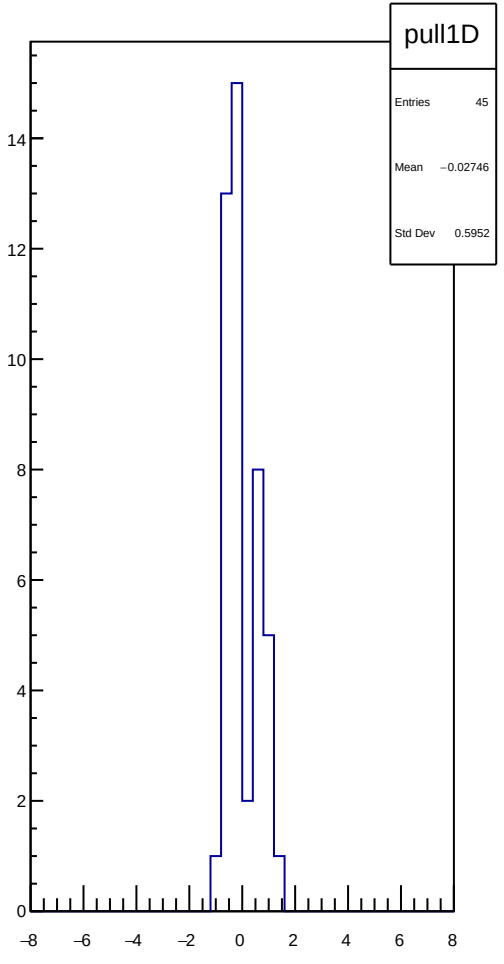

pull1D
Entries 45
Mean 0.03122
Std Dev 1.521
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

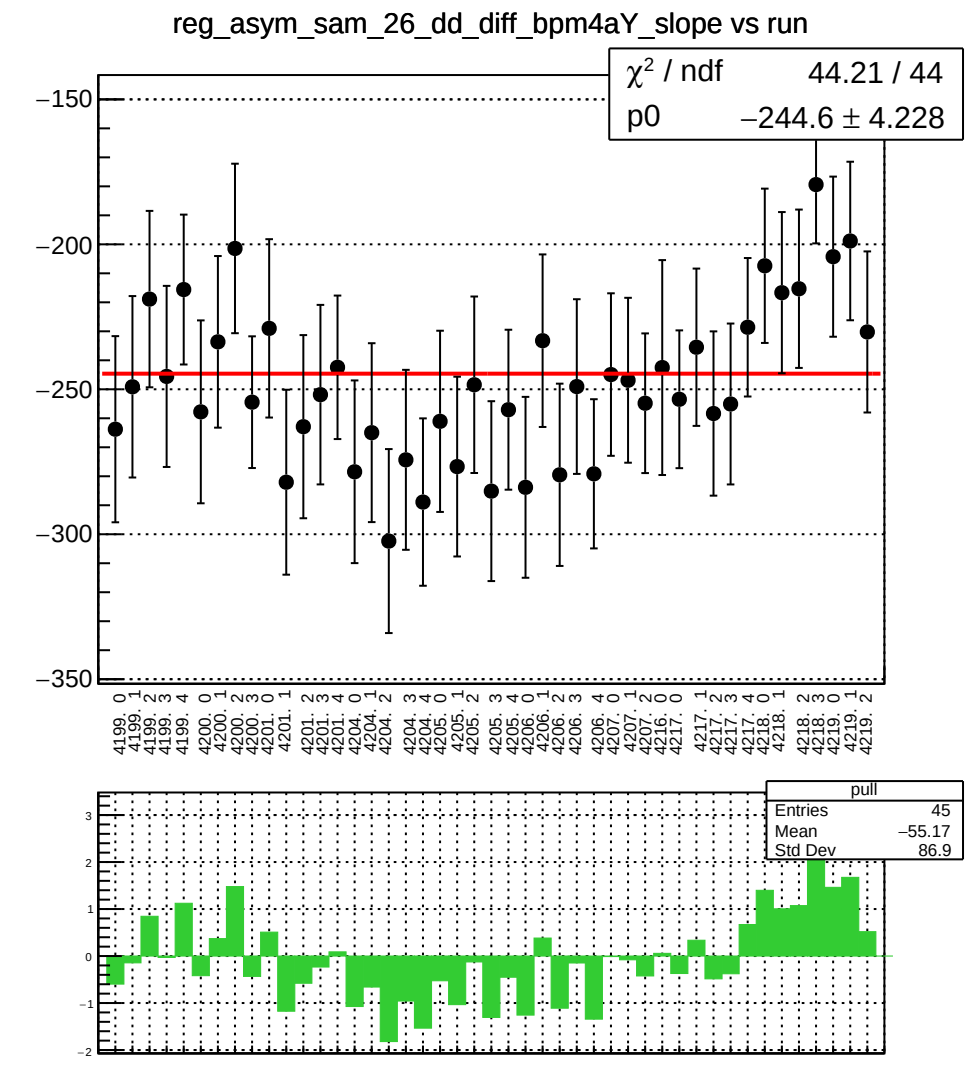

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.68 / 44
p0 108.2 ± 3.447
pull
Entries 45
Mean −33.16
Std Dev 69.69
pull1D
Entries 45
Mean 0.06467
Std Dev 1.243

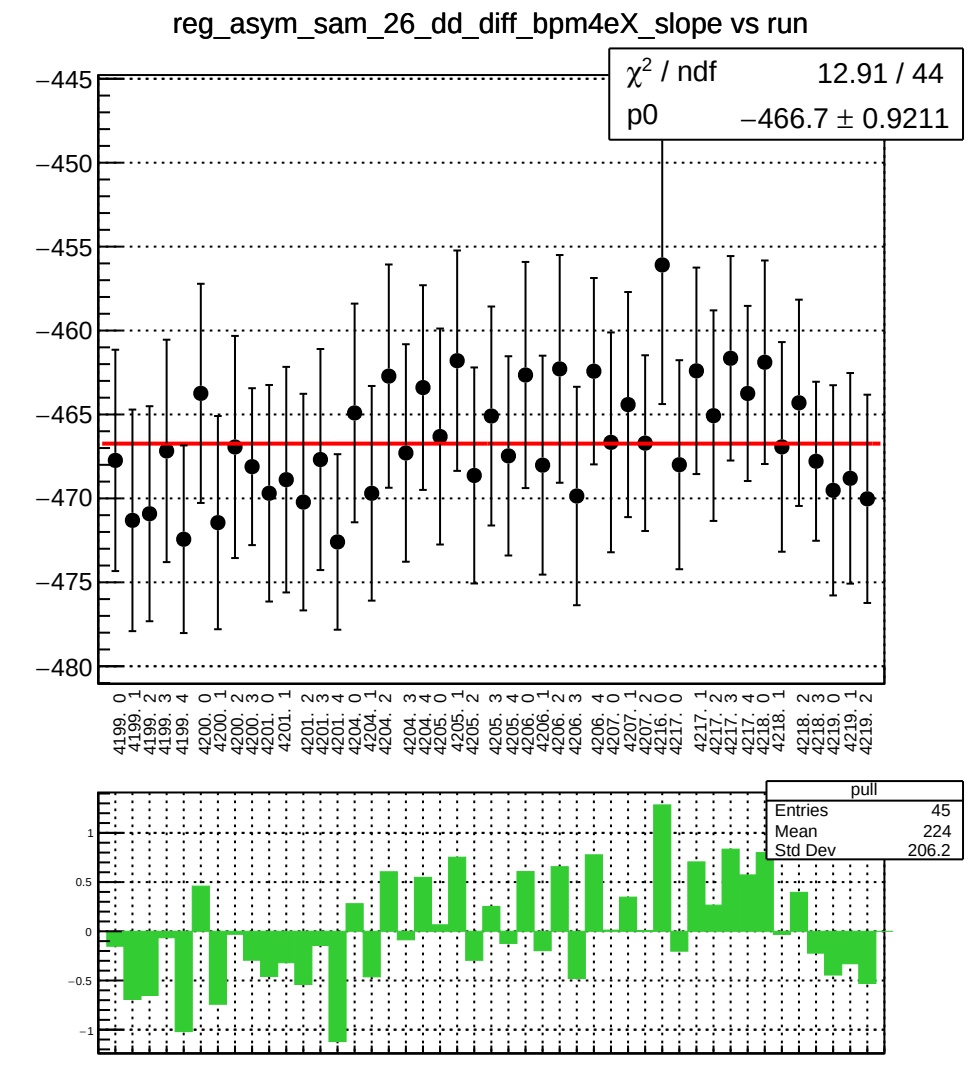

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 24.81 / 44
p0 −6.698 ± 0.6065
pull
Entries 45
Mean 4.231
Std Dev 33.2

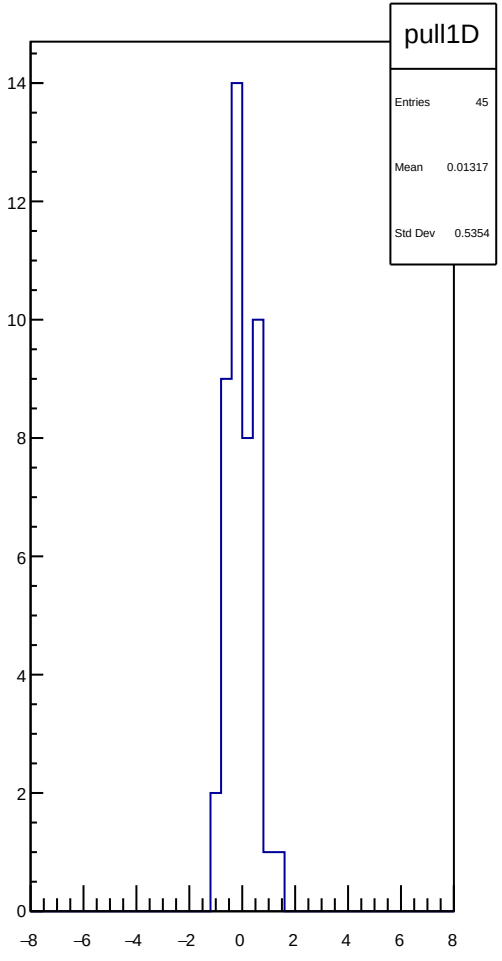

pull1D
Entries 45
Mean −0.02862
Std Dev 0.742

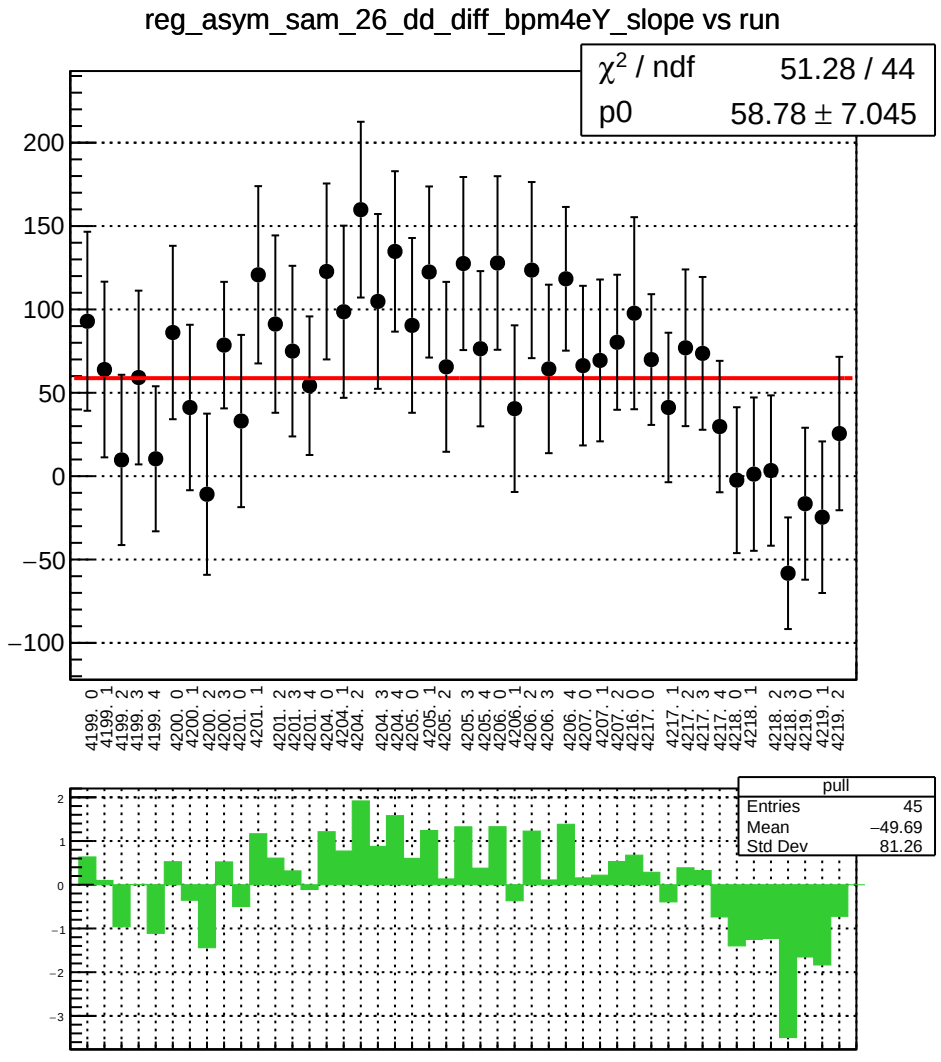

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.98 / 44
p0 105.5 ± 5.036
pull
Entries 45
Mean −178.4
Std Dev 202.8

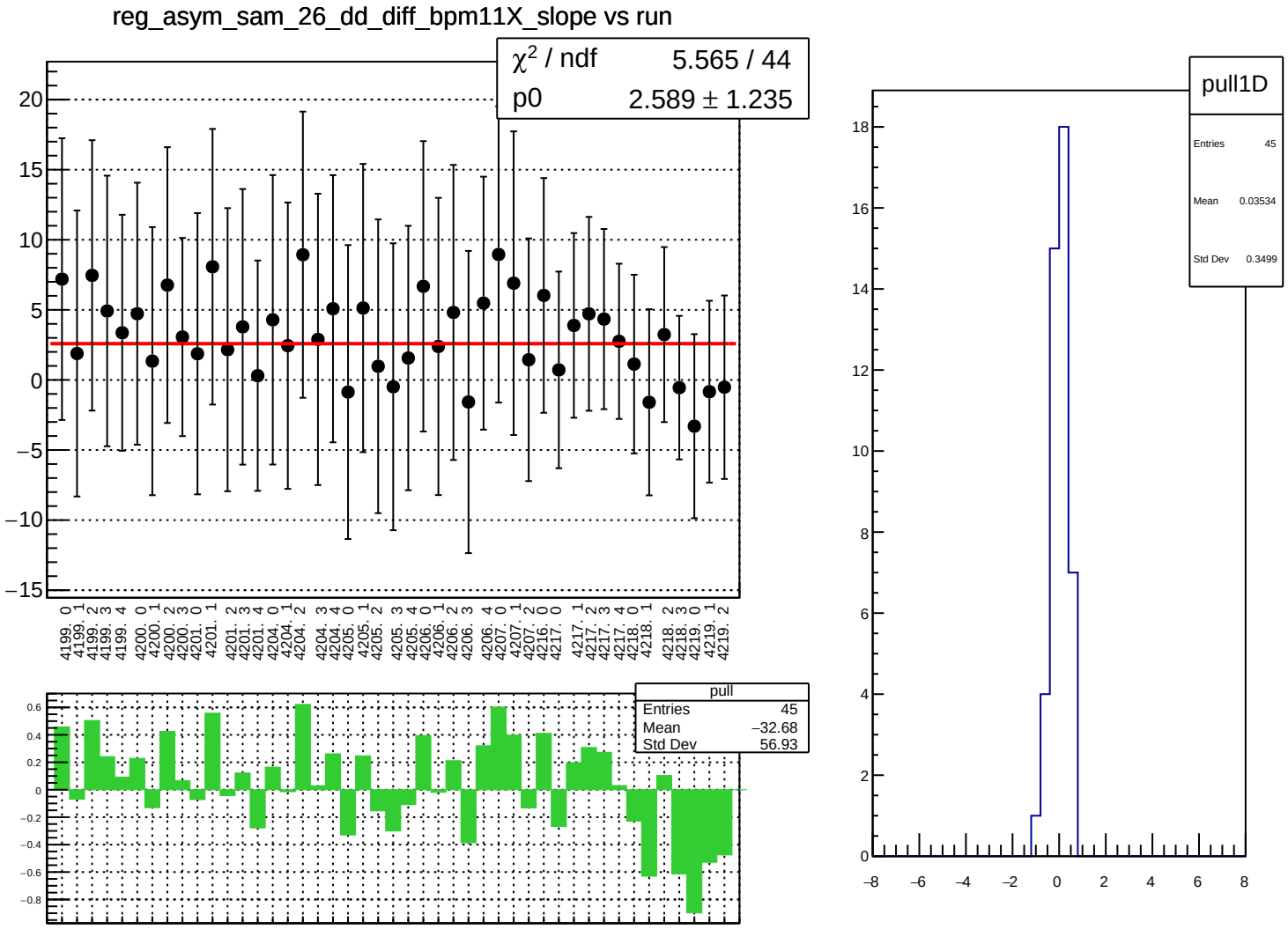

pull1D
Entries 45
Mean −0.02746
Std Dev 0.5952

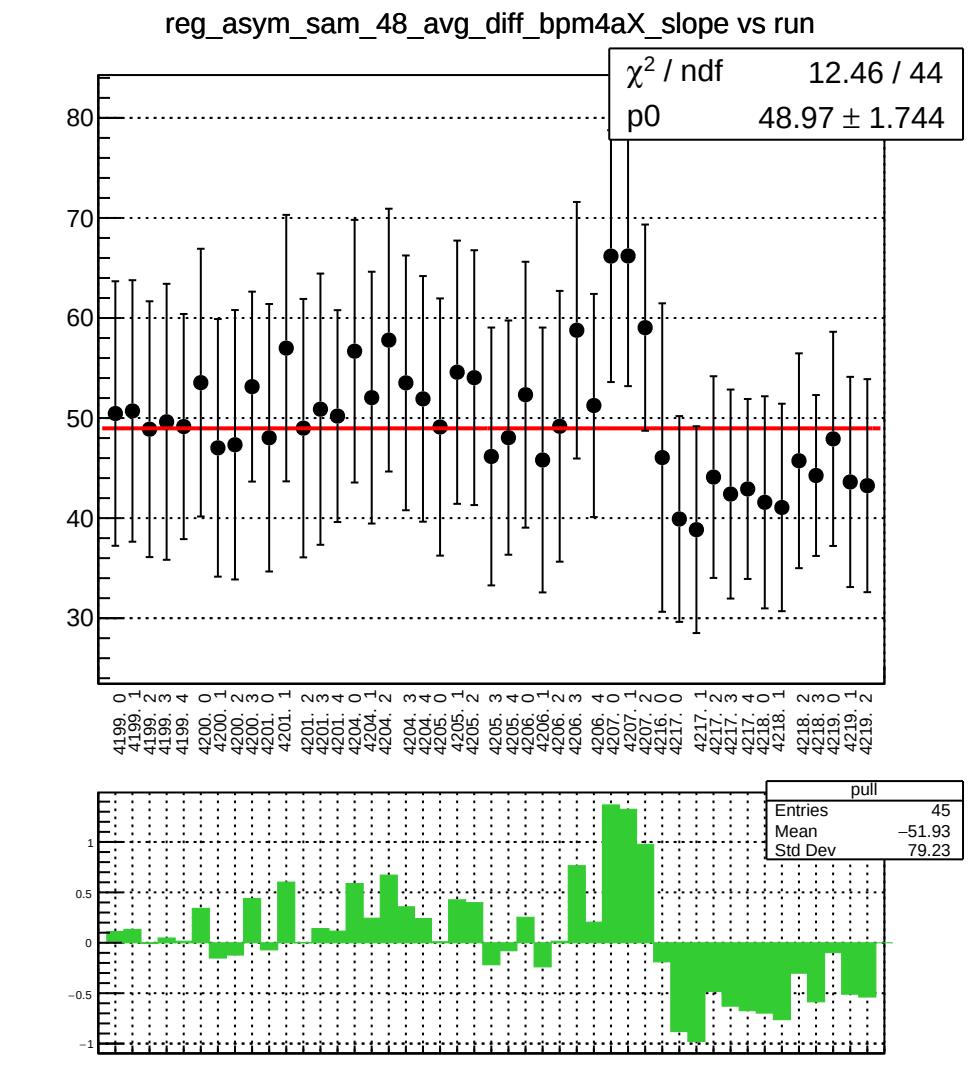

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.21 / 44
p0 −244.6 ± 4.228
−150
−200
−250
−300
−350
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −55.17
Std Dev 86.9
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.05548
Std Dev 0.9897
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

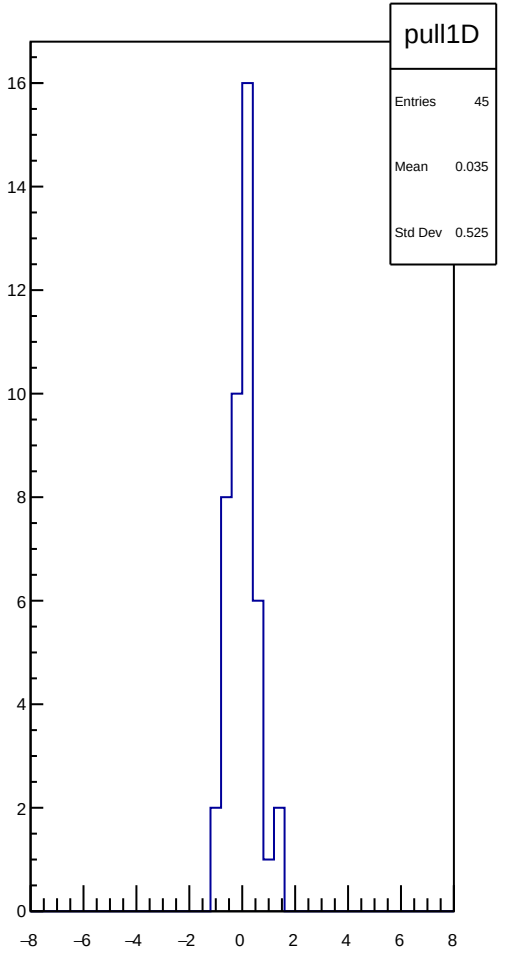

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.91 / 44
p0 −466.7 ± 0.9211
pull
Entries 45
Mean 224
Std Dev 206.2

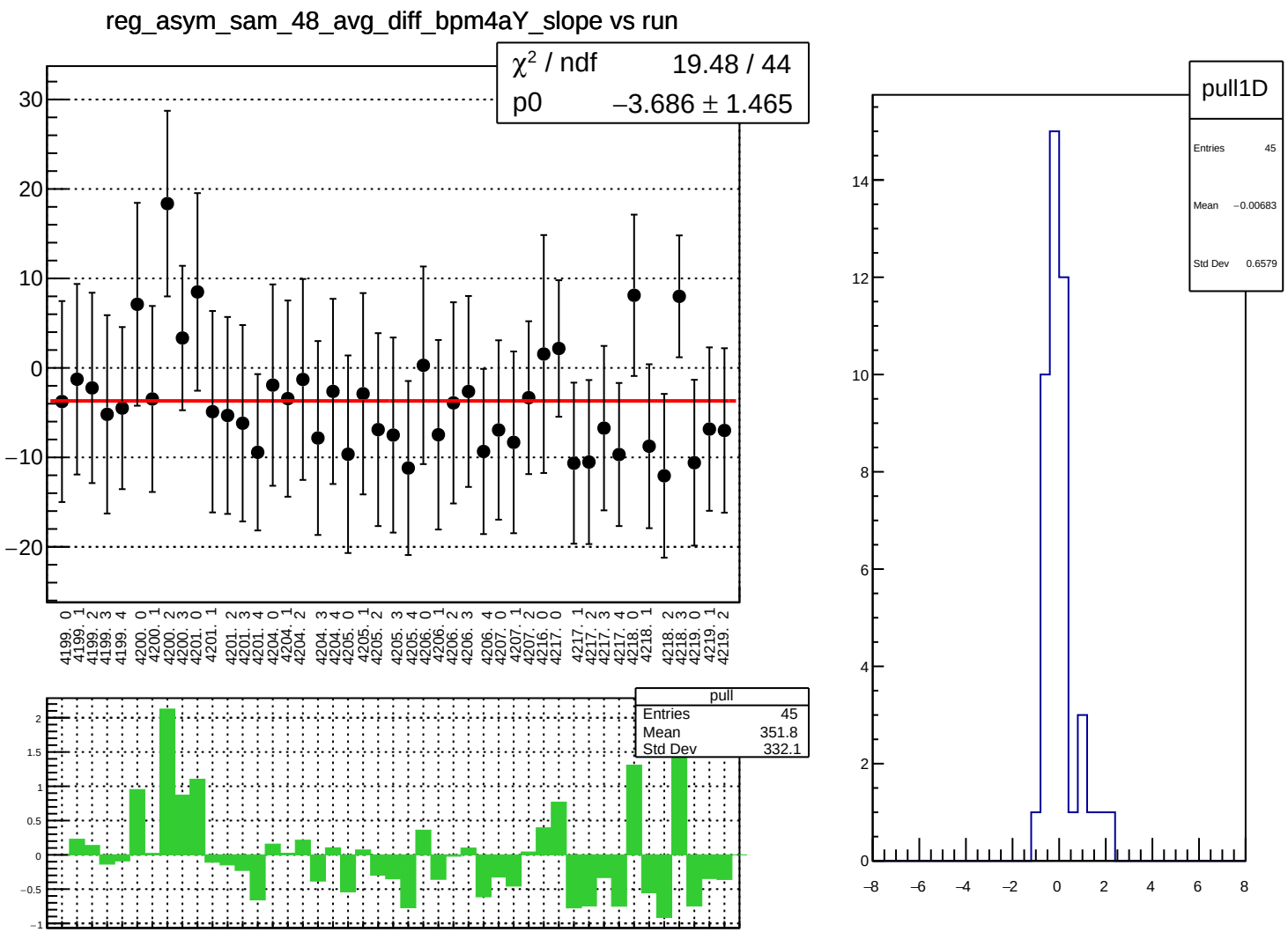

pull1D
Entries 45
Mean 0.01317
Std Dev 0.5354

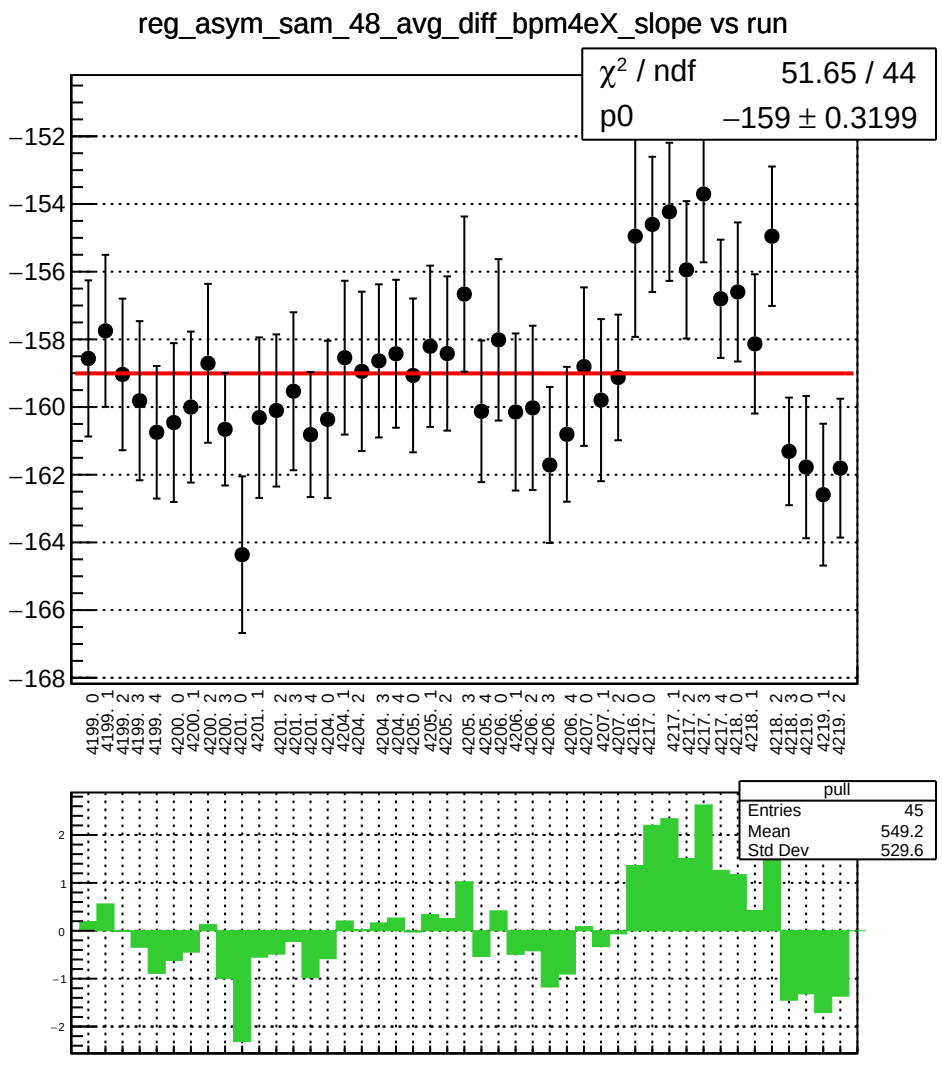

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.28 / 44
p0 58.78 ± 7.045
200
150
100
50
0
−50
−100
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −49.69
Std Dev 81.26
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.06671
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

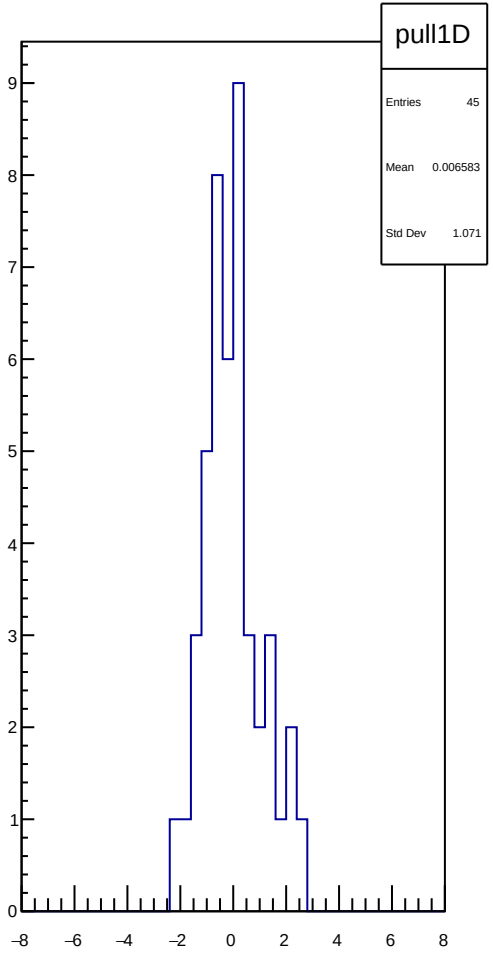

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 5.565 / 44
p0 2.589 ± 1.235
pull
Entries 45
Mean −32.68
Std Dev 56.93
pull1D
Entries 45
Mean 0.03534
Std Dev 0.3499

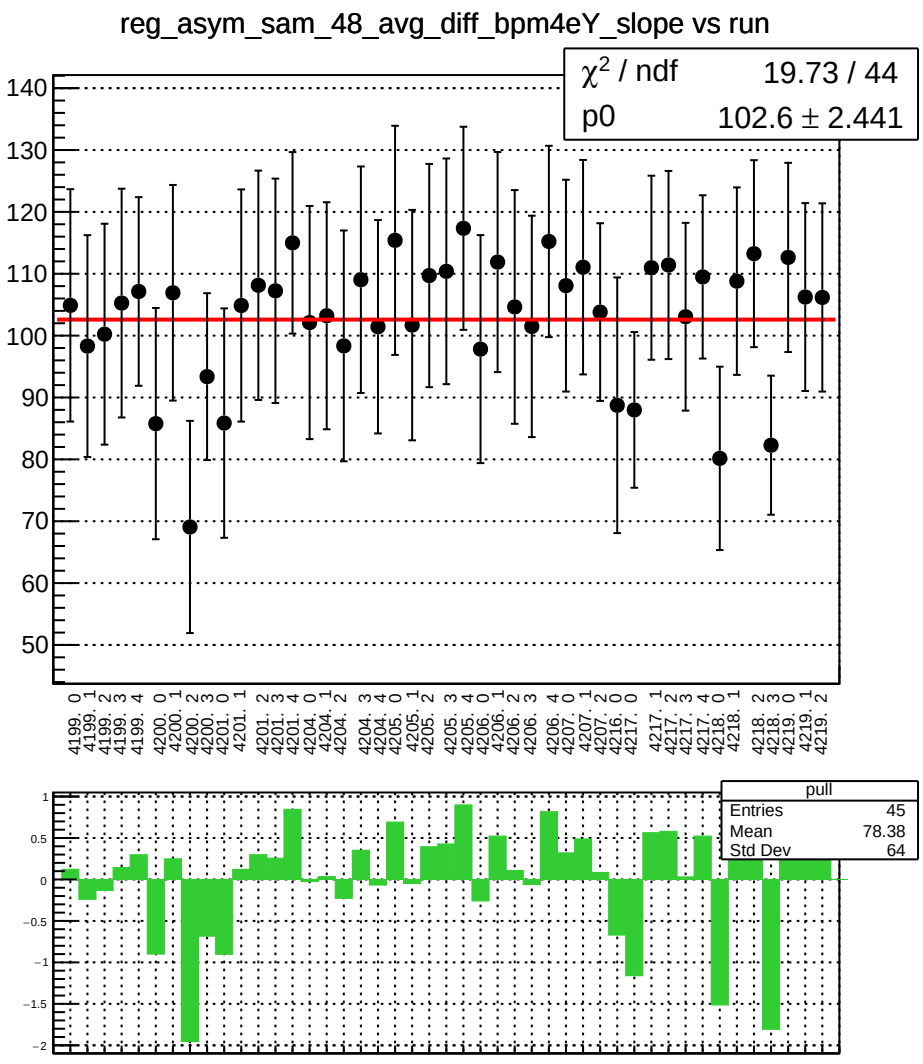

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.46 / 44
p0 48.97 ± 1.744
pull
Entries 45
Mean −51.93
Std Dev 79.23

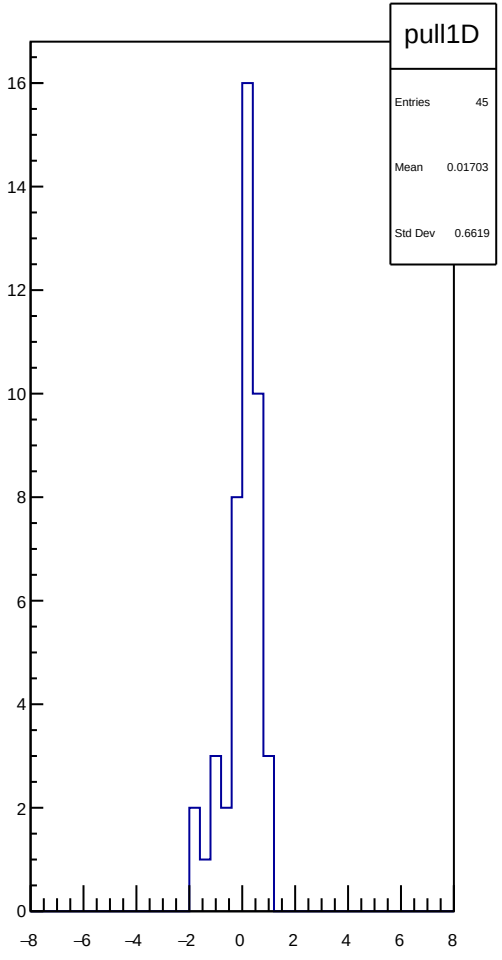

pull1D
Entries 45
Mean 0.035
Std Dev 0.525

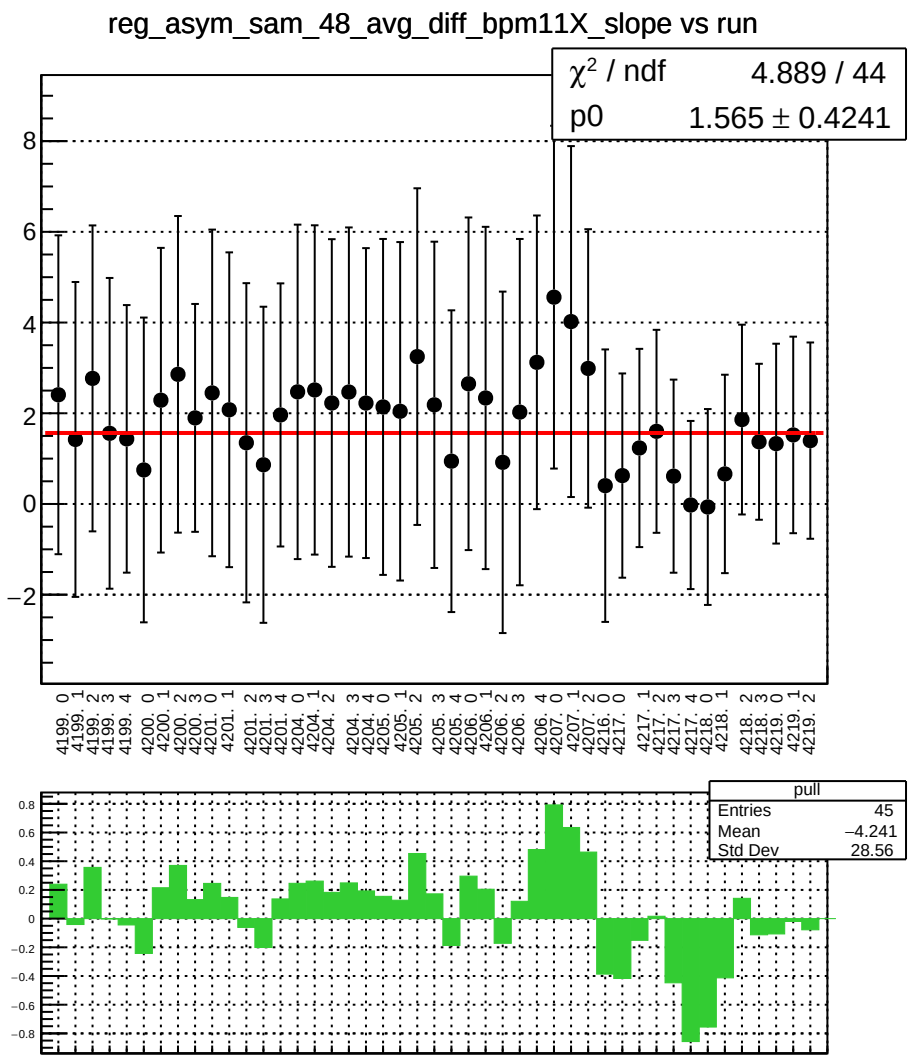

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.48 / 44
p0 −3.686 ± 1.465
pull
Entries 45
Mean 351.8
Std Dev 332.1
pull1D
Entries 45
Mean −0.00683
Std Dev 0.6579

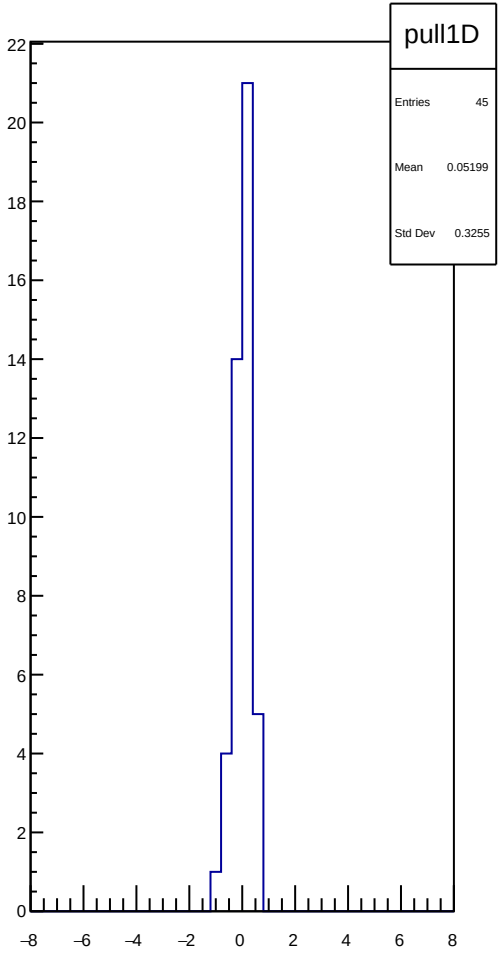

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.65 / 44
p0 −159 ± 0.3199
pull
Entries 45
Mean 549.2
Std Dev 529.6

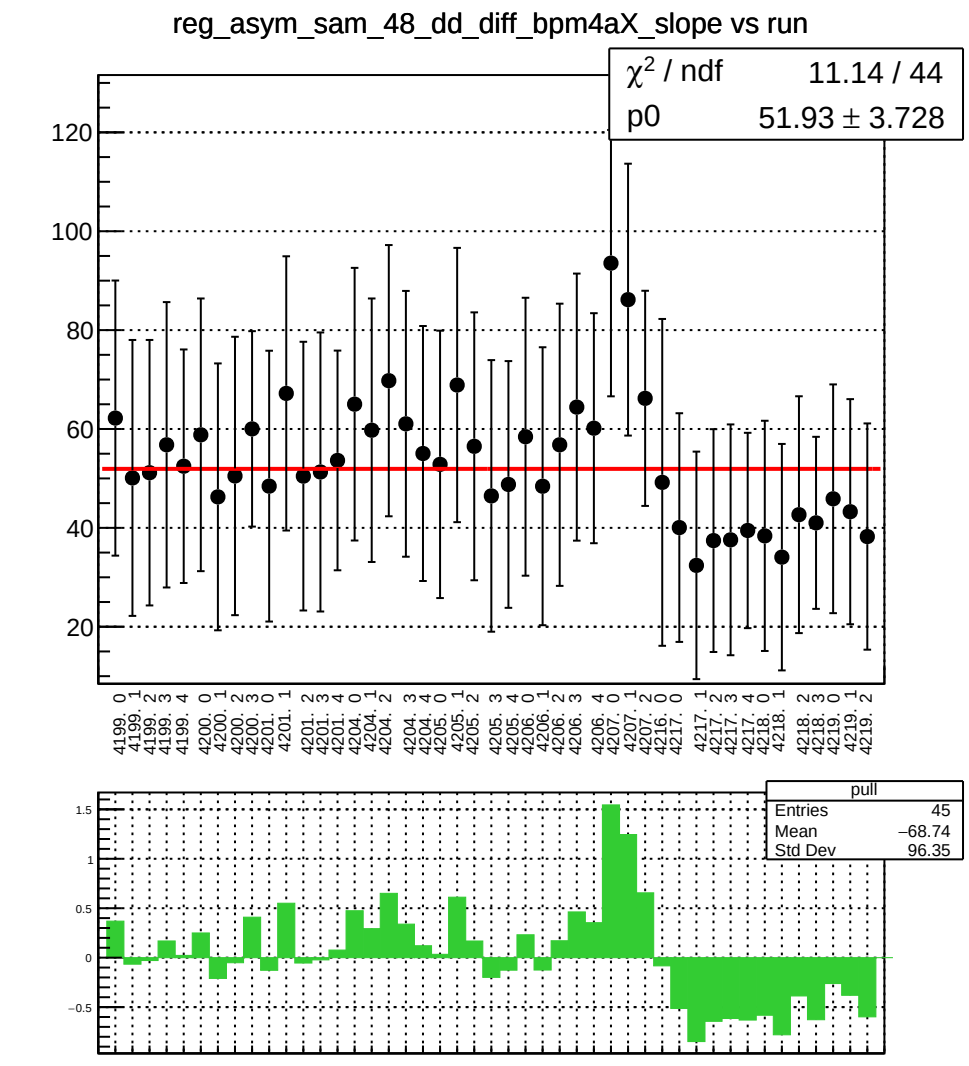

pull1D
Entries 45
Mean 0.006583
Std Dev 1.071

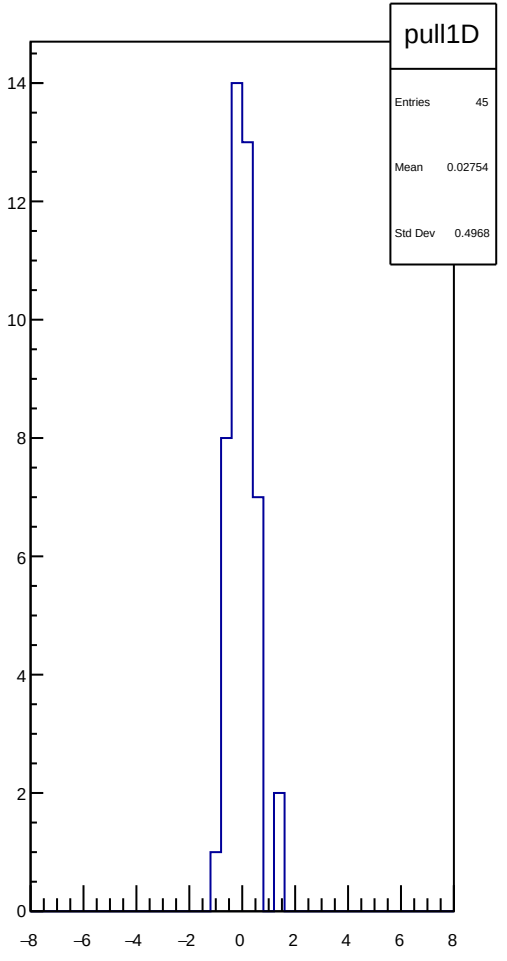

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.73 / 44
p0 102.6 ± 2.441
pull
Entries 45
Mean 78.38
Std Dev 64

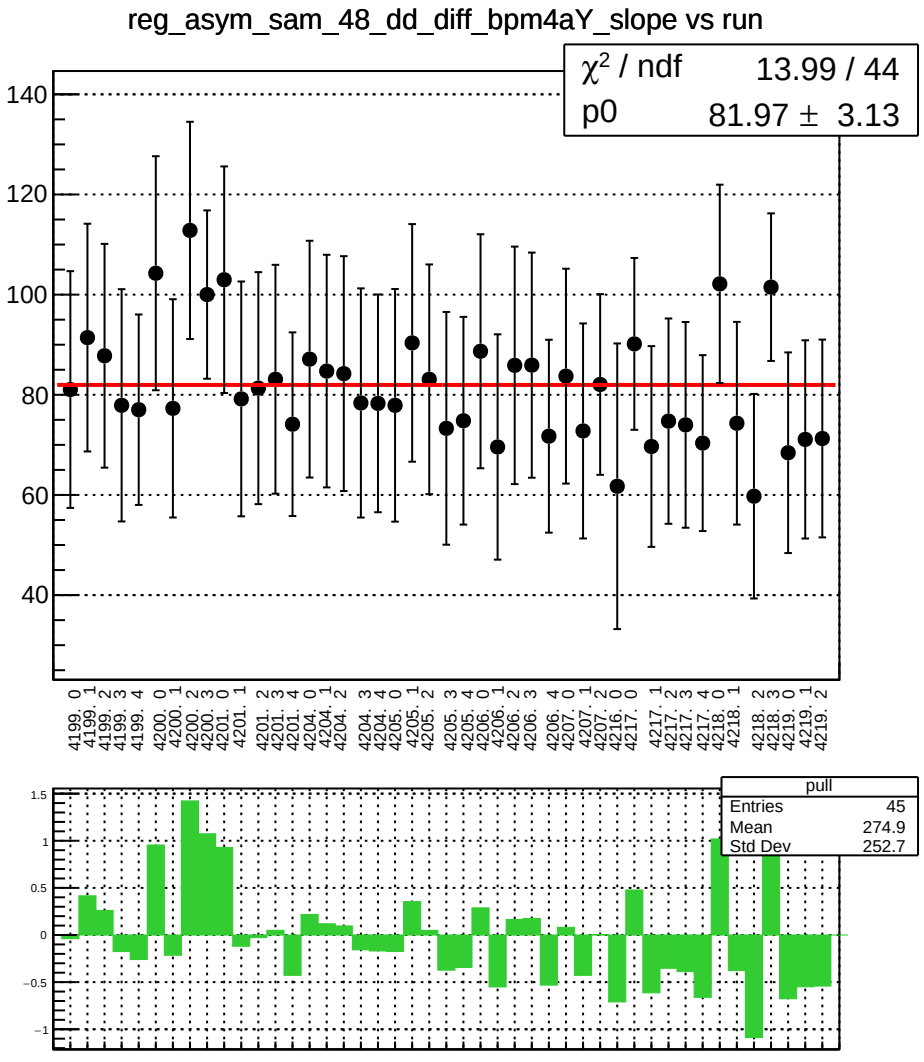

pull1D
Entries 45
Mean 0.01703
Std Dev 0.6619

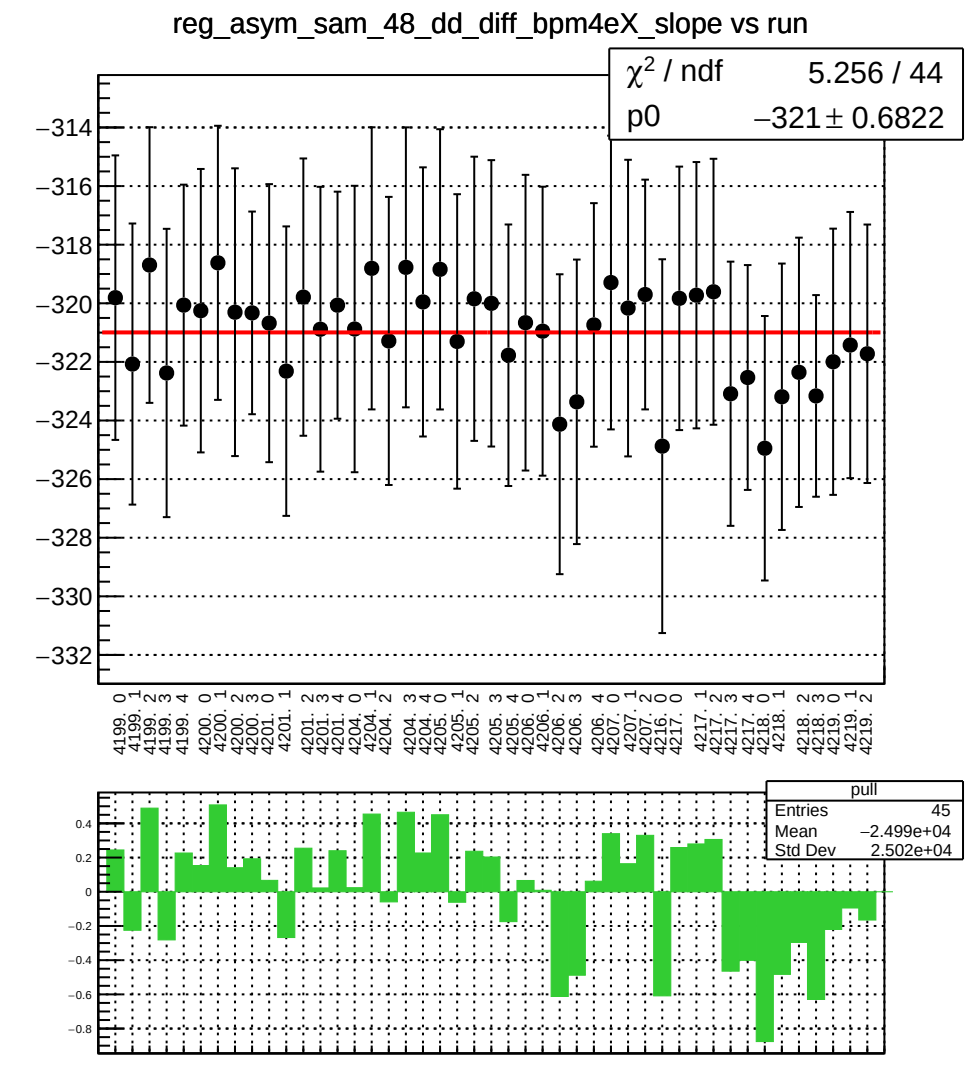

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 4.889 / 44
p0 1.565 ± 0.4241
pull
Entries 45
Mean −4.241
Std Dev 28.56

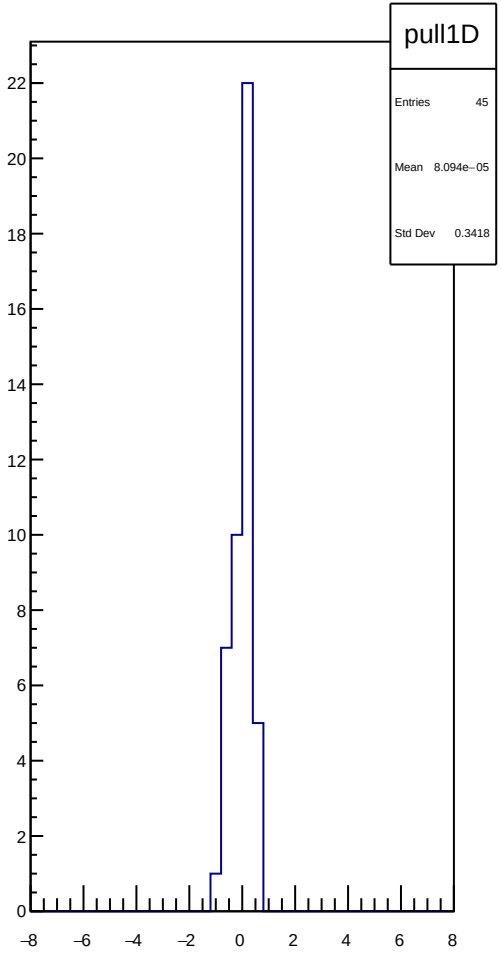

pull1D
Entries 45
Mean 0.05199
Std Dev 0.3255

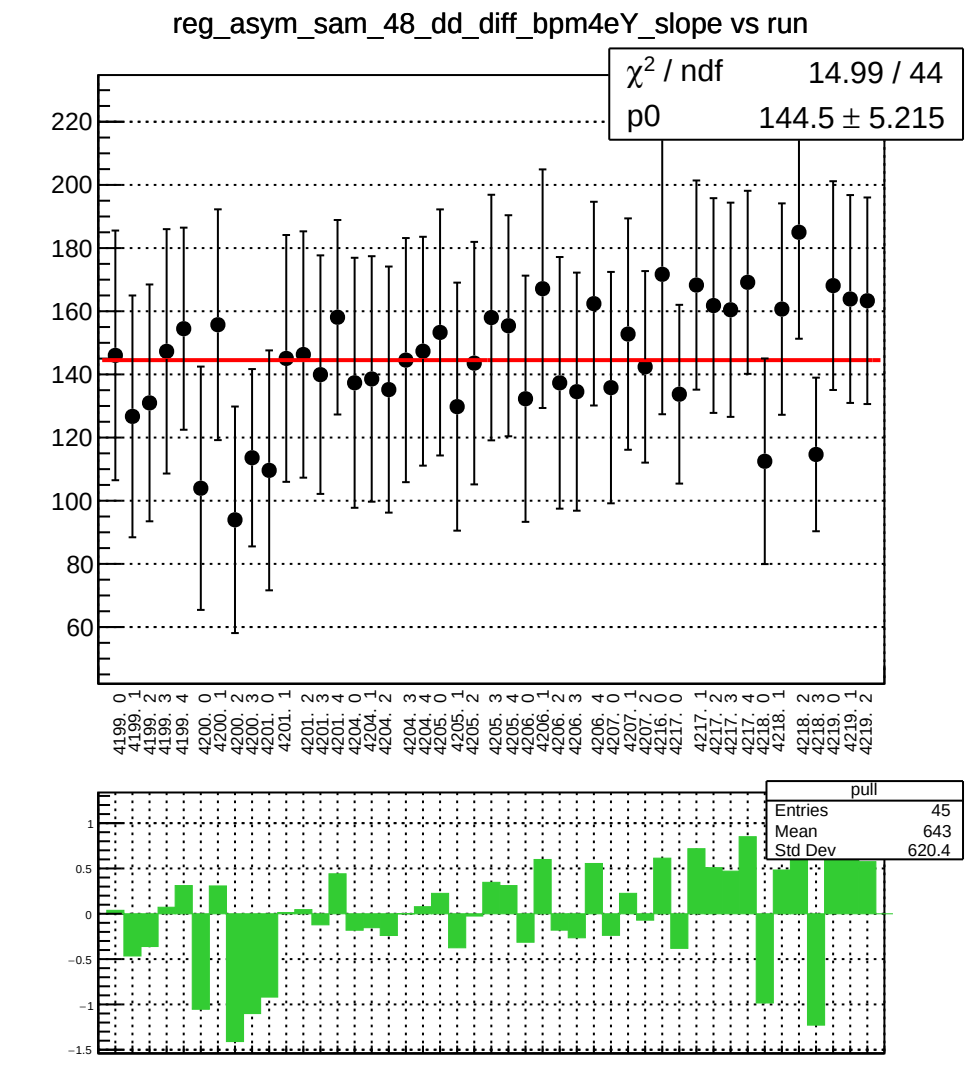

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.14 / 44
p0 51.93 ± 3.728
120
100
80
60
40
20
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −68.74
Std Dev 96.35
1.5
1
0.5
0
−0.5

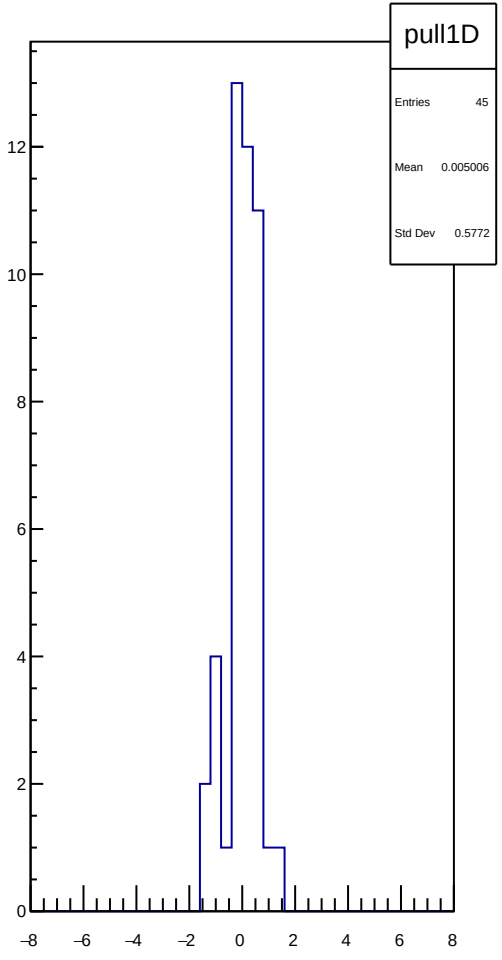

pull1D
Entries 45
Mean 0.02754
Std Dev 0.4968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

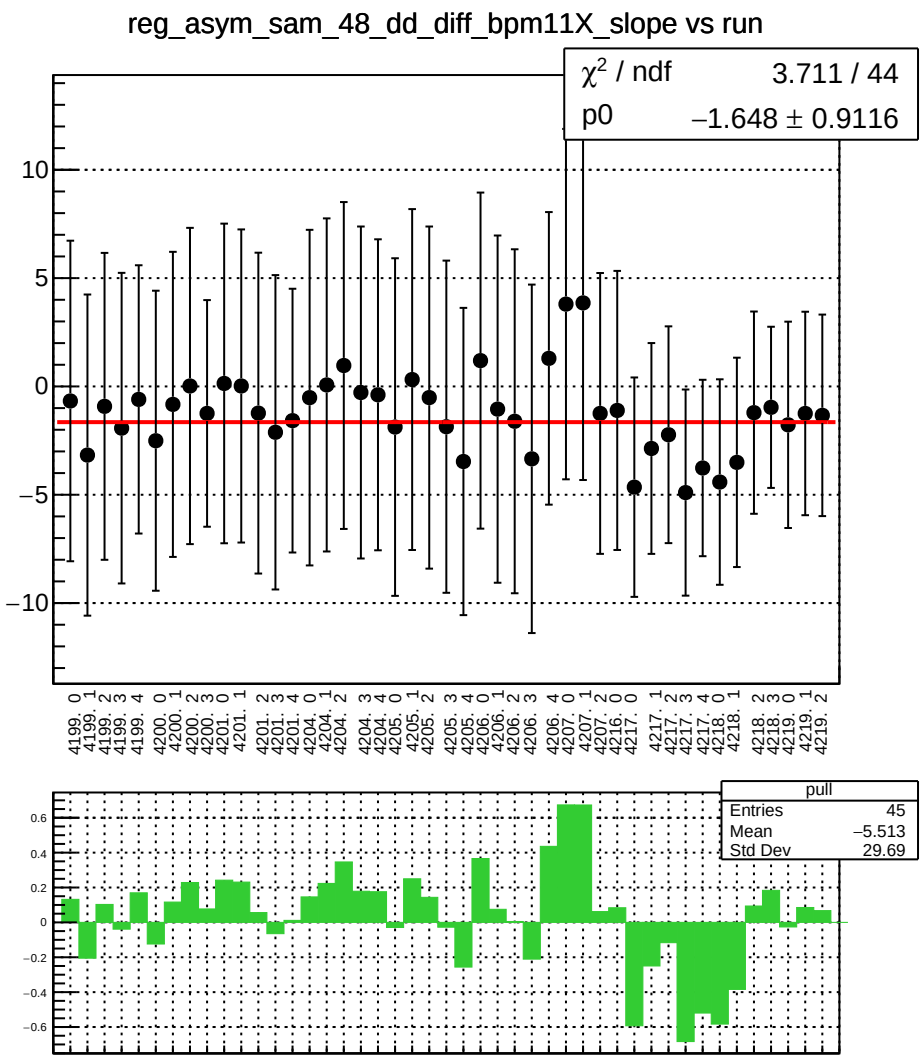

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.99 / 44
p0 81.97 ± 3.13
140
120
100
80
60
40
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 274.9
Std Dev 252.7
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01054
Std Dev 0.5575
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

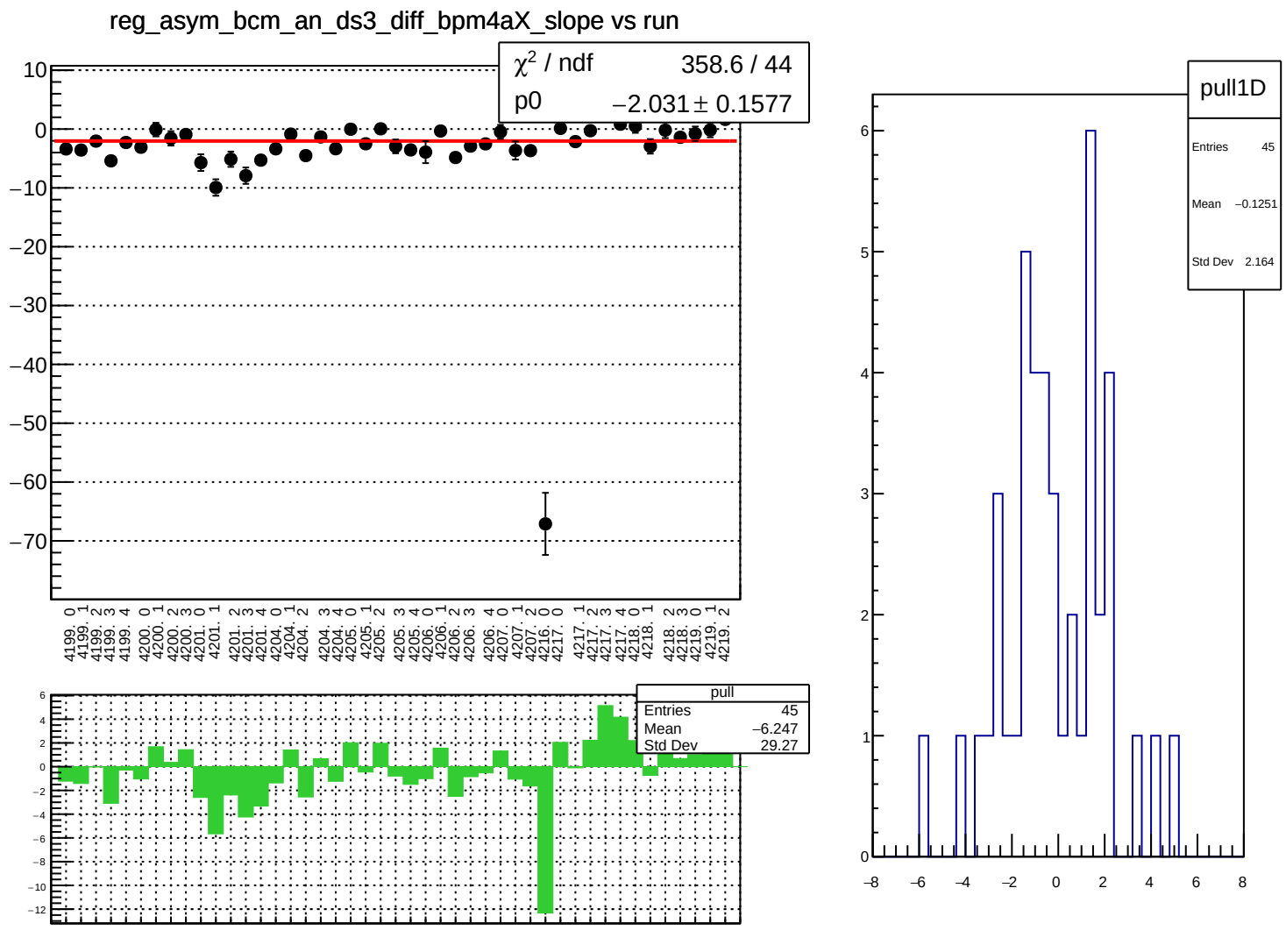

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.256 / 44
p0 −321 ± 0.6822
pull
Entries 45
Mean −2.499e+04
Std Dev 2.502e+04

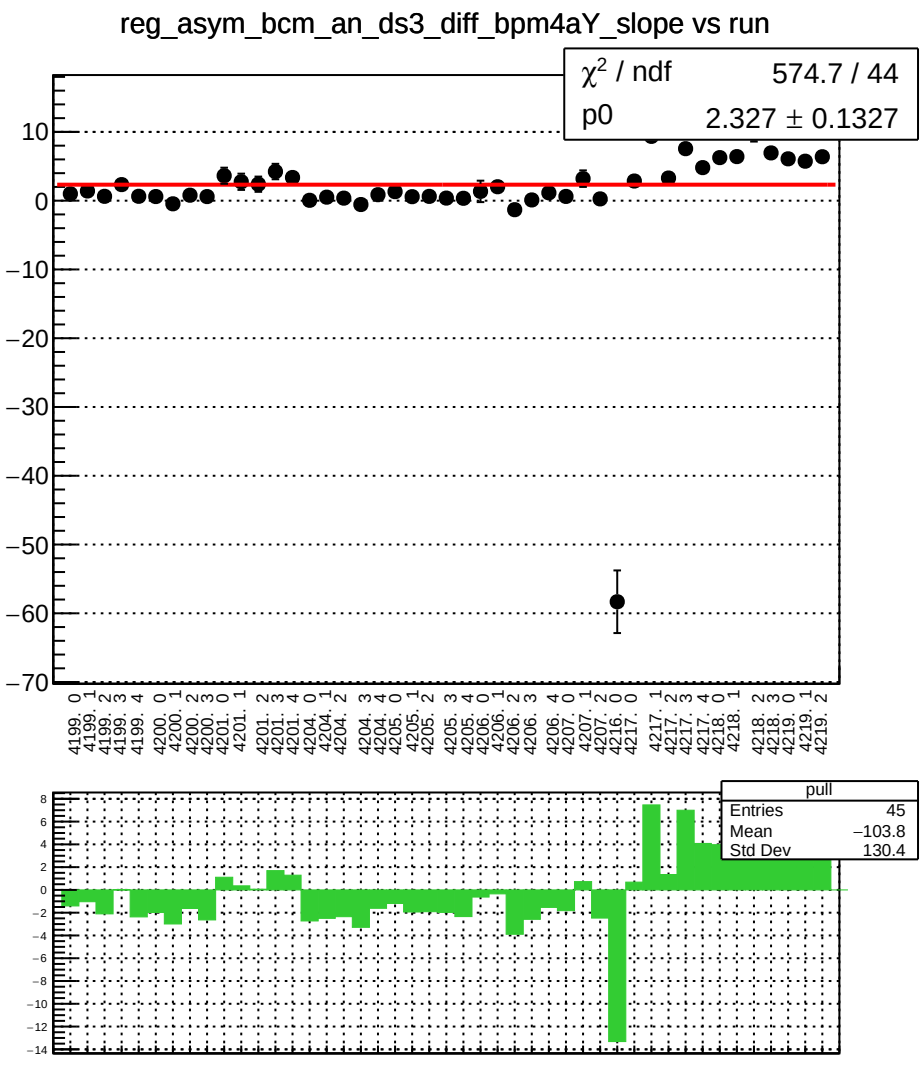

pull1D
Entries 45
Mean 8.094e−05
Std Dev 0.3418

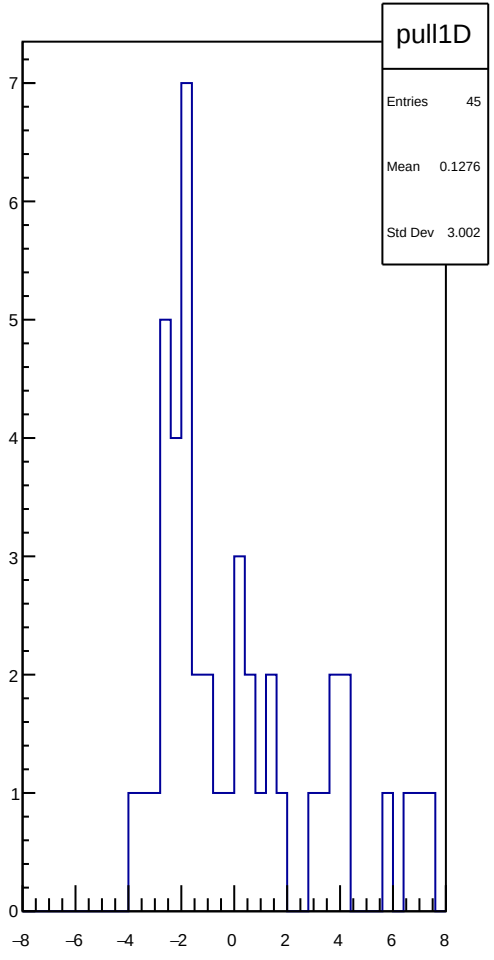

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.99 / 44
p0 144.5 ± 5.215
220
200
180
160
140
120
100
80
60
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 643
Std Dev 620.4
1
0.5
0
−0.5
−1
−1.5

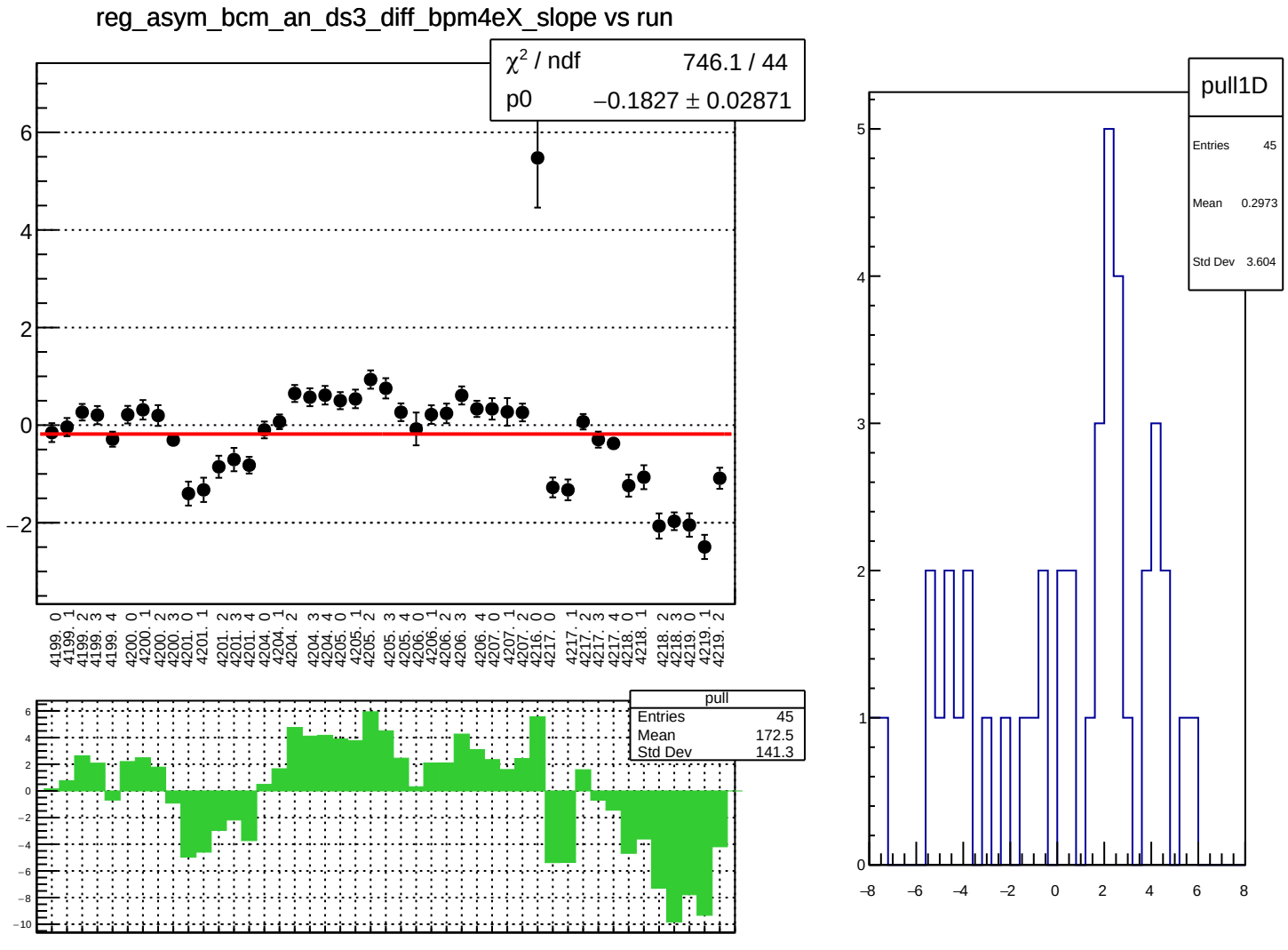

pull1D
Entries 45
Mean 0.005006
Std Dev 0.5772
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

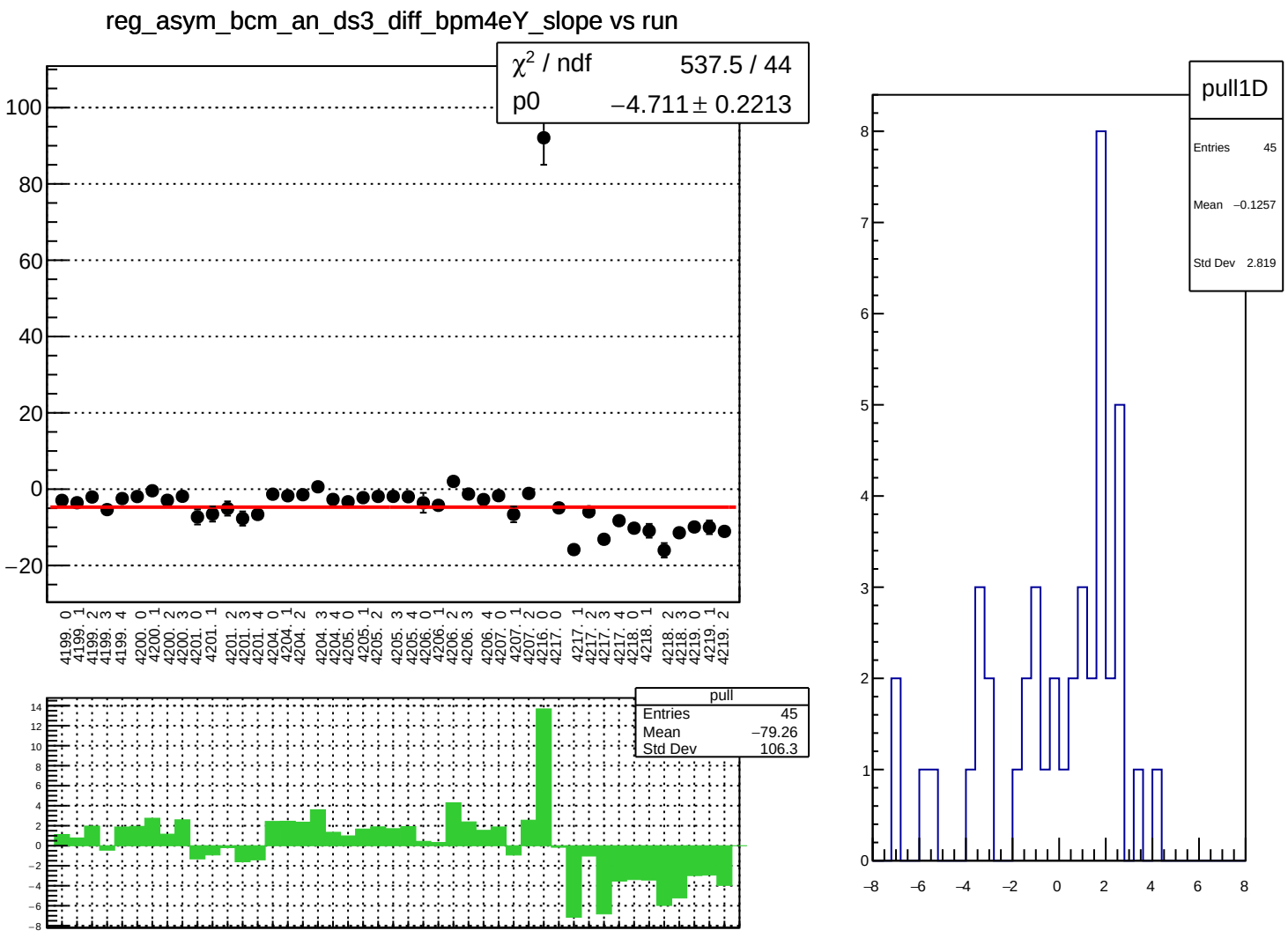

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 3.711 / 44
p0 −1.648 ± 0.9116
10
5
0
−5
−10
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −5.513
Std Dev 29.69
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.0339
Std Dev 0.2852
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

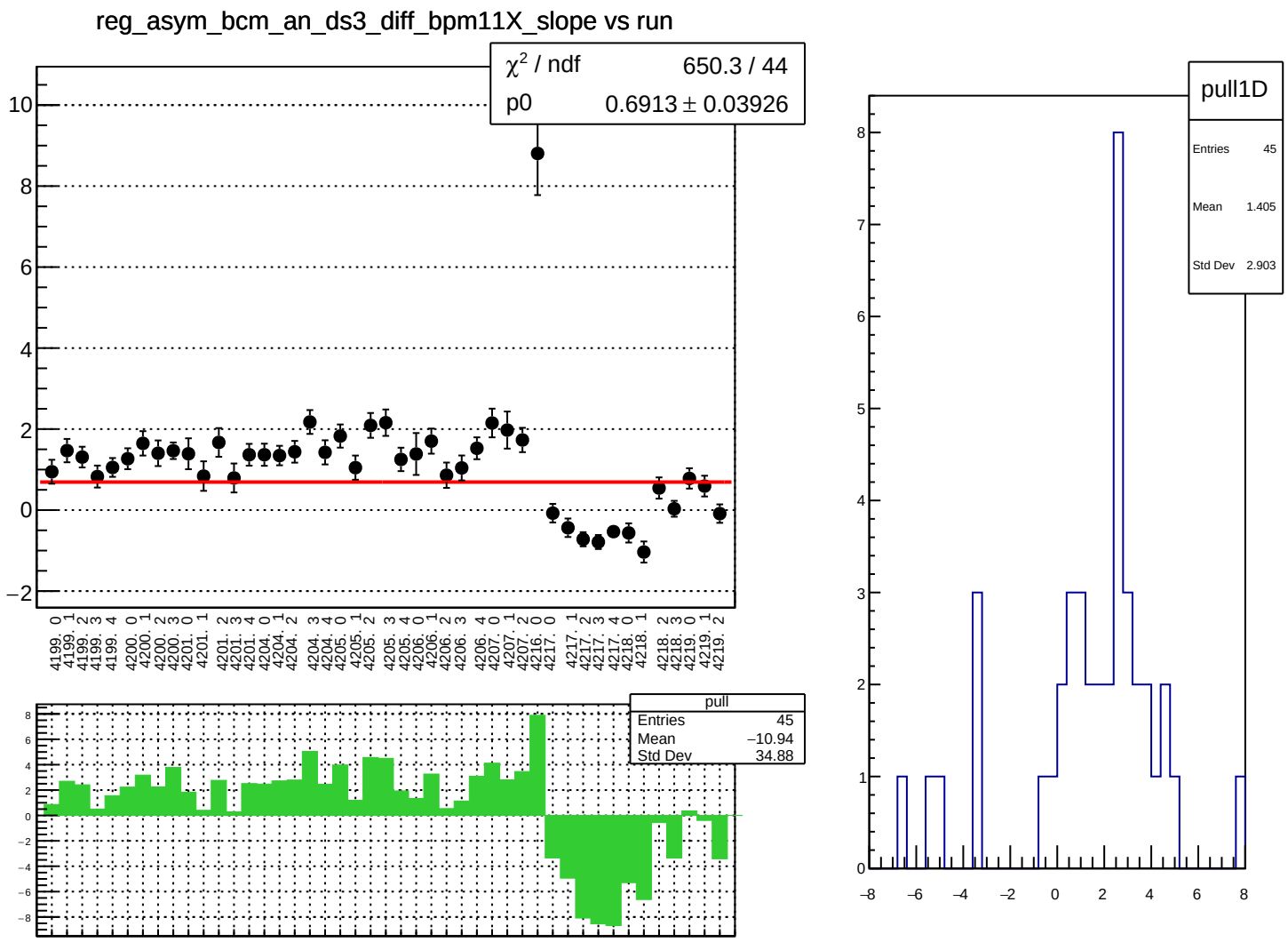

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 358.6 / 44
p0 −2.031 ± 0.1577
pull
Entries 45
Mean −6.247
Std Dev 29.27
pull1D
Entries 45
Mean −0.1251
Std Dev 2.164

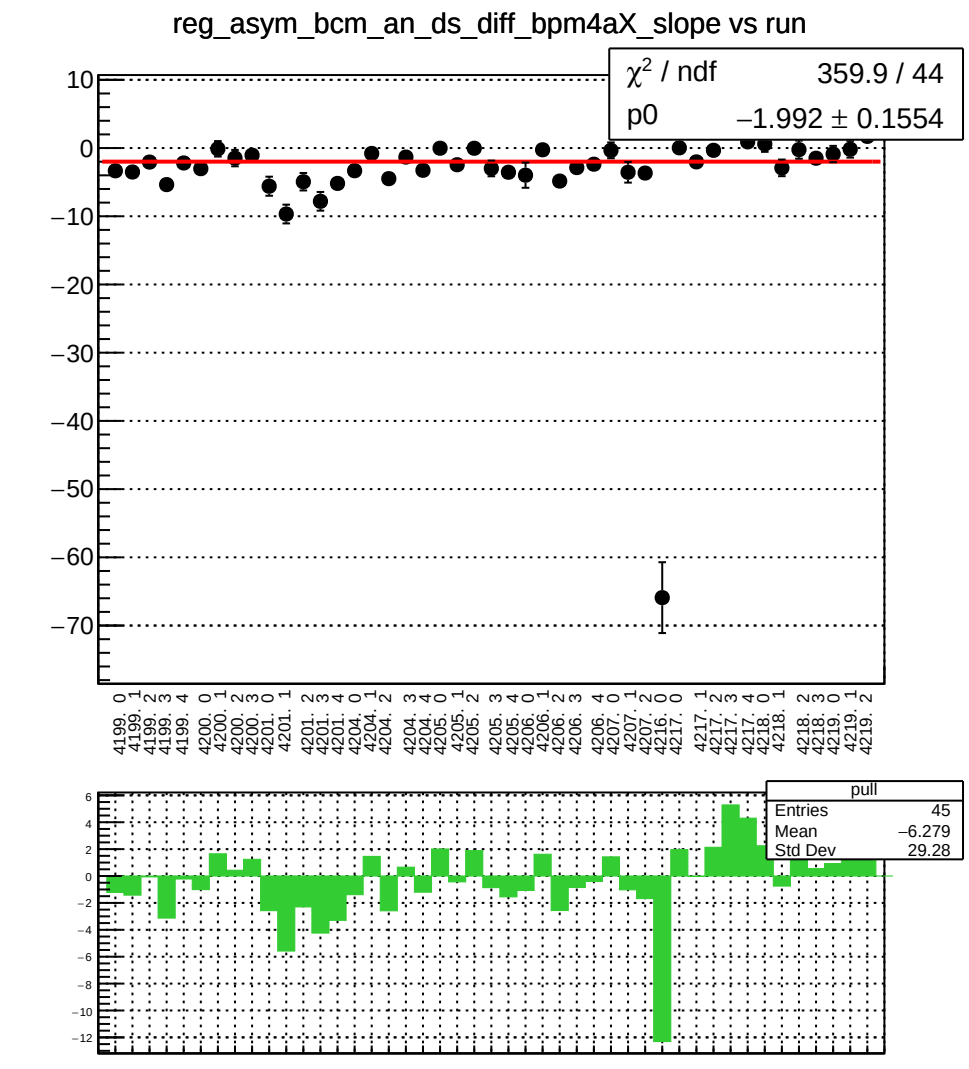

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 574.7 / 44
p0 2.327 ± 0.1327
pull
Entries 45
Mean −103.8
Std Dev 130.4

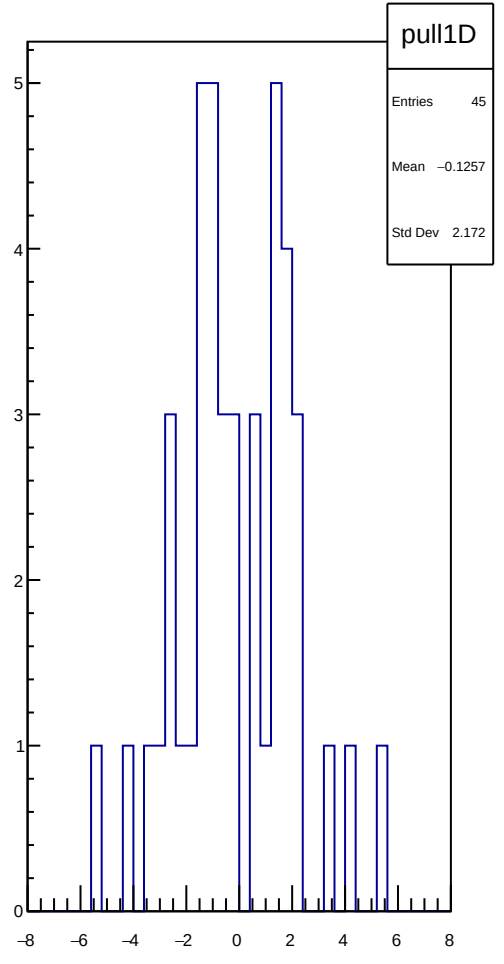

pull1D
Entries 45
Mean 0.1276
Std Dev 3.002

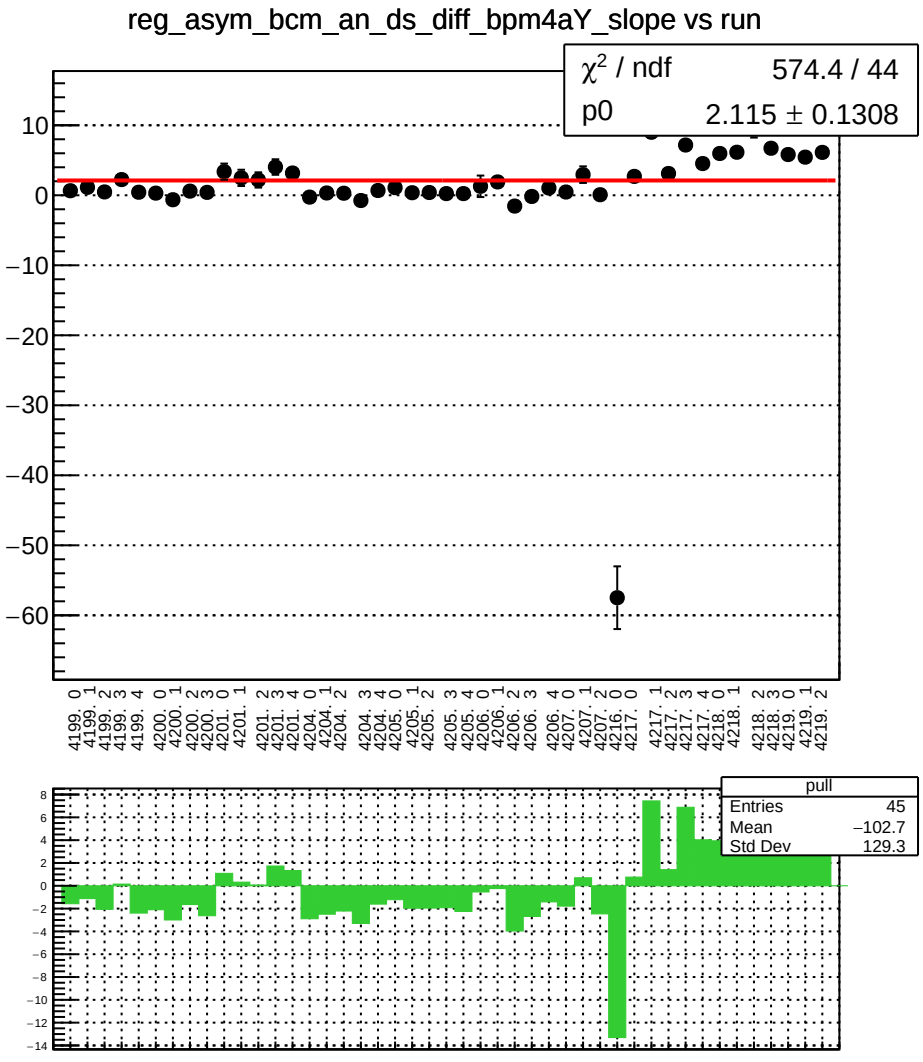

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 746.1 / 44
p0 −0.1827 ± 0.02871
pull
Entries 45
Mean 172.5
Std Dev 141.3
pull1D
Entries 45
Mean 0.2973
Std Dev 3.604

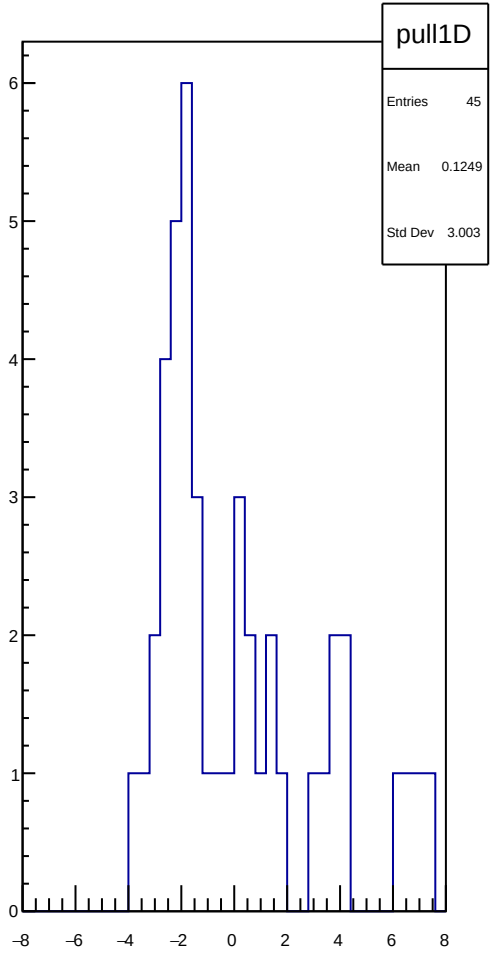

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 537.5 / 44
p0 −4.711 ± 0.2213
pull
Entries 45
Mean −79.26
Std Dev 106.3
pull1D
Entries 45
Mean −0.1257
Std Dev 2.819

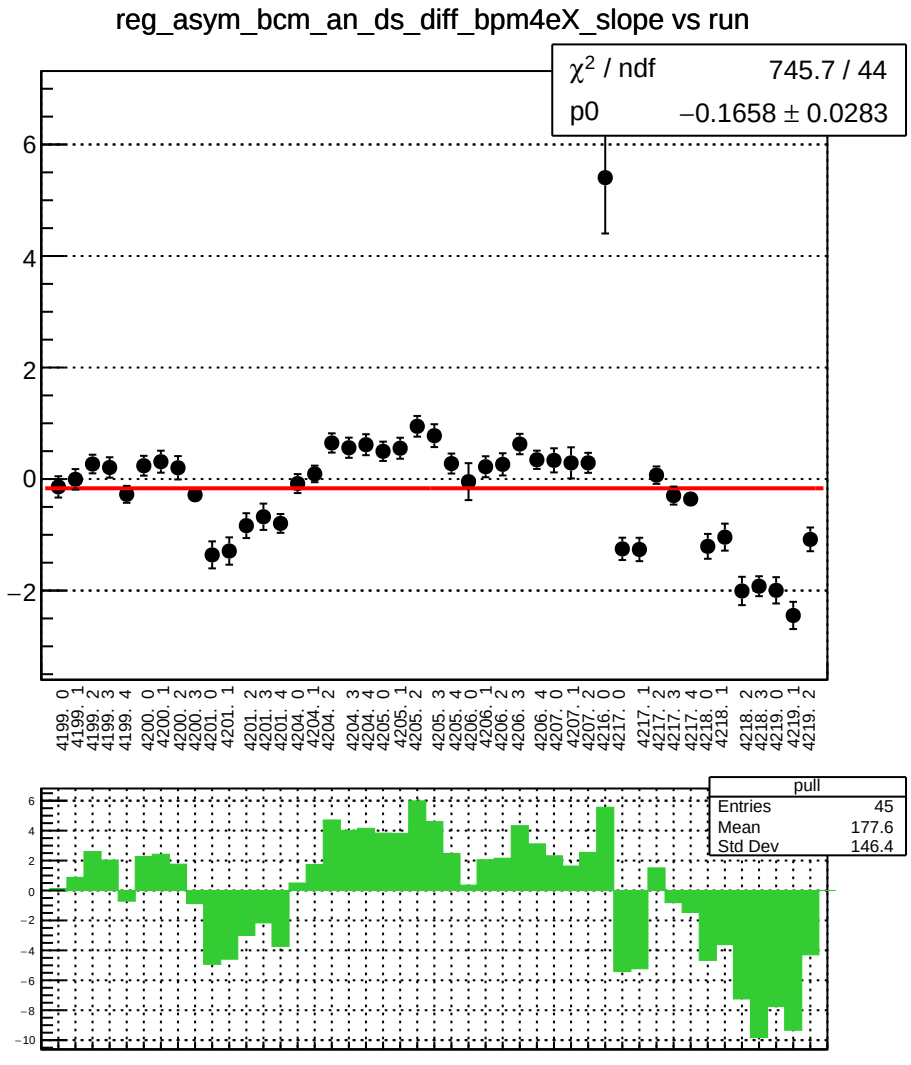

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 650.3 / 44
p0 0.6913 ± 0.03926
pull
Entries 45
Mean −10.94
Std Dev 34.88
pull1D
Entries 45
Mean 1.405
Std Dev 2.903

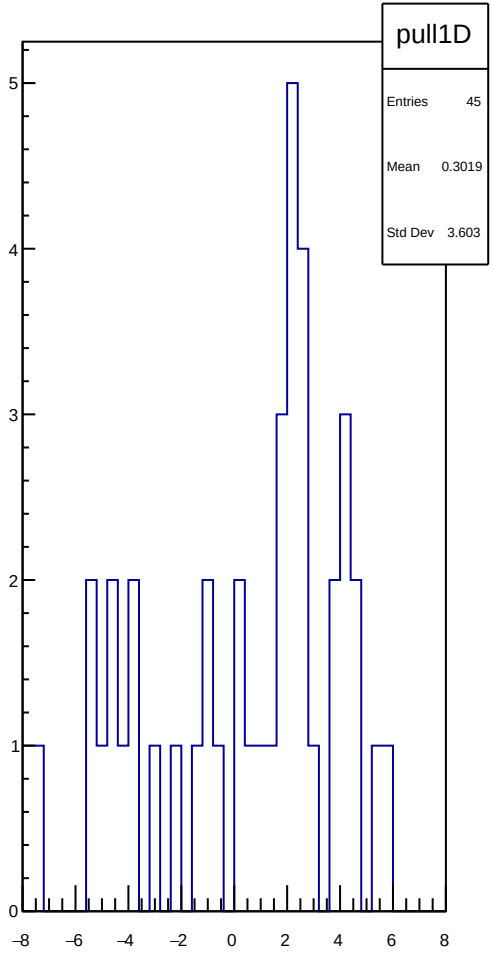

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 359.9 / 44
p0 −1.992 ± 0.1554
pull
Entries 45
Mean −6.279
Std Dev 29.28

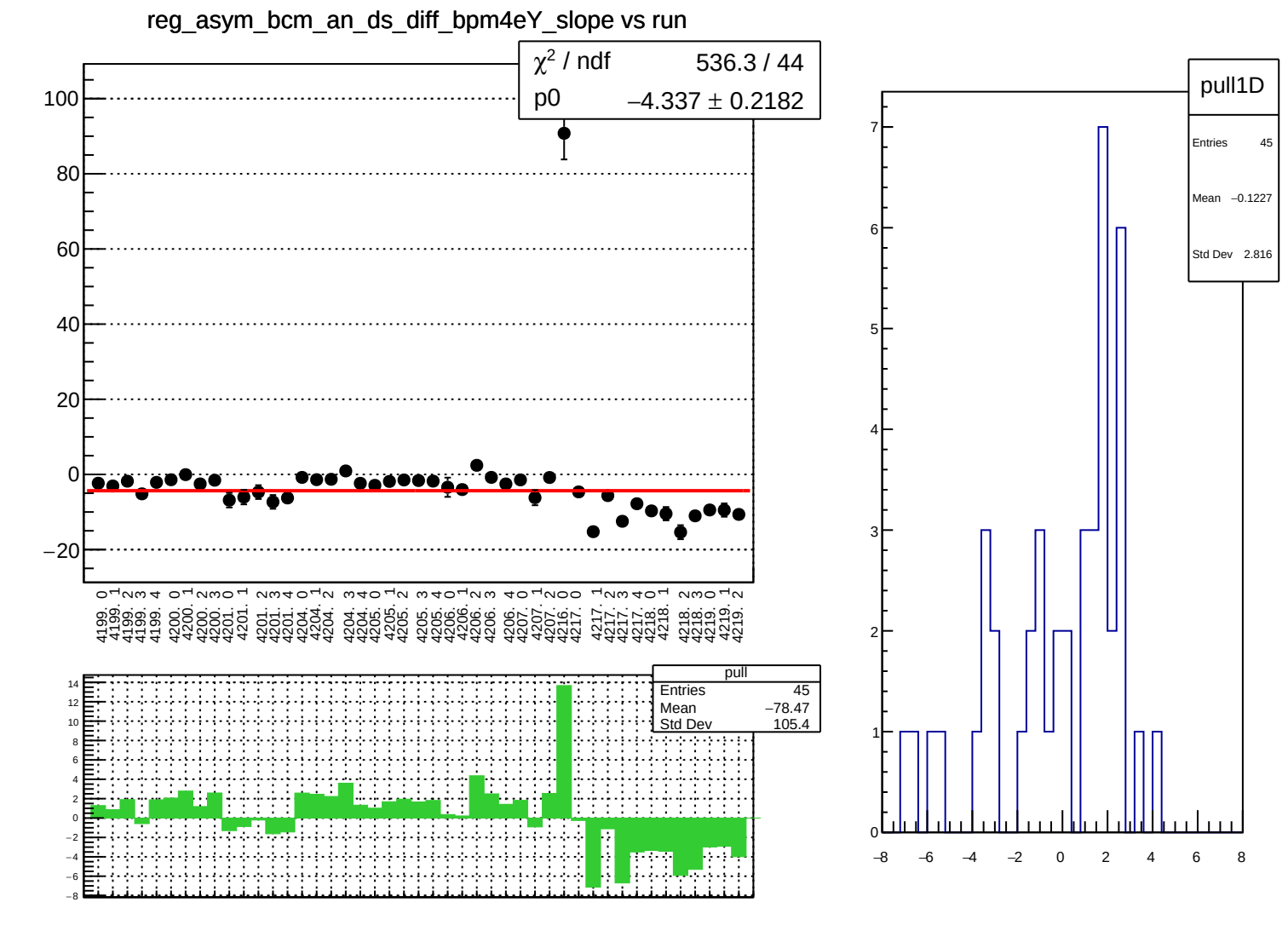

pull1D
Entries 45
Mean −0.1257
Std Dev 2.172

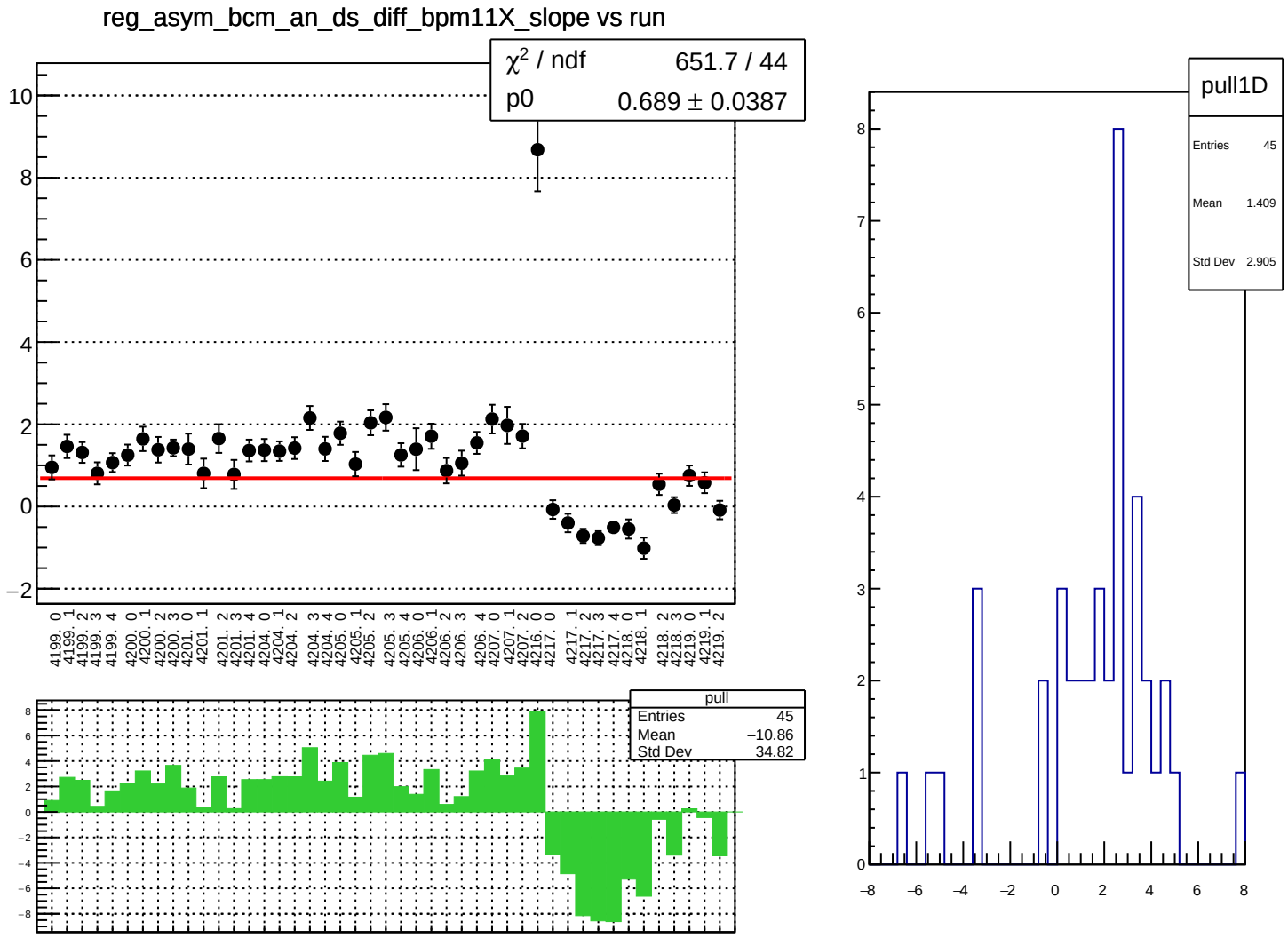

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 574.4 / 44
p0 2.115 ± 0.1308
pull
Entries 45
Mean −102.7
Std Dev 129.3

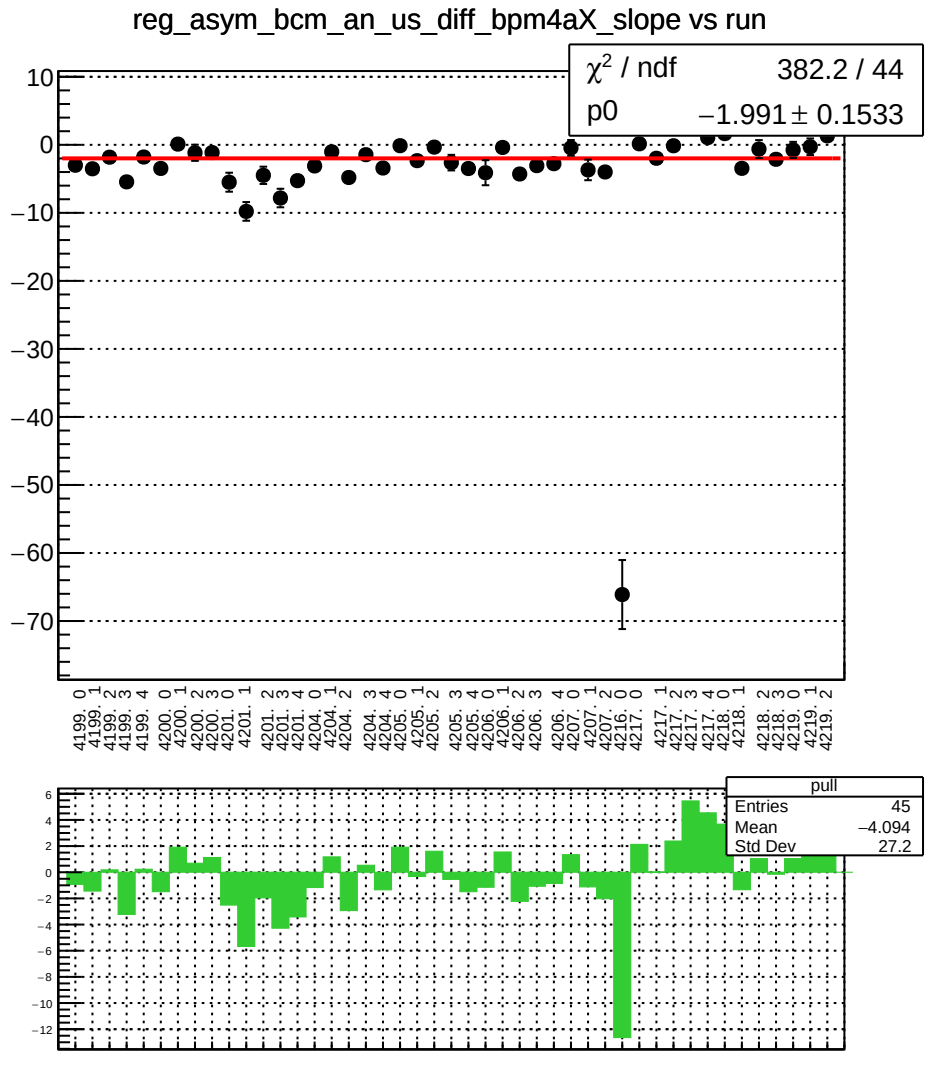

pull1D
Entries 45
Mean 0.1249
Std Dev 3.003

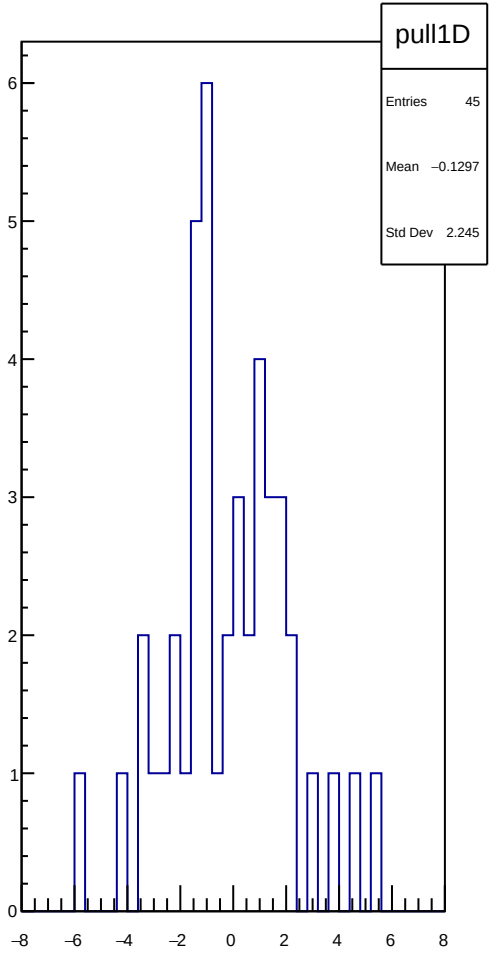

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 745.7 / 44
p0 −0.1658 ± 0.0283
pull
Entries 45
Mean 177.6
Std Dev 146.4

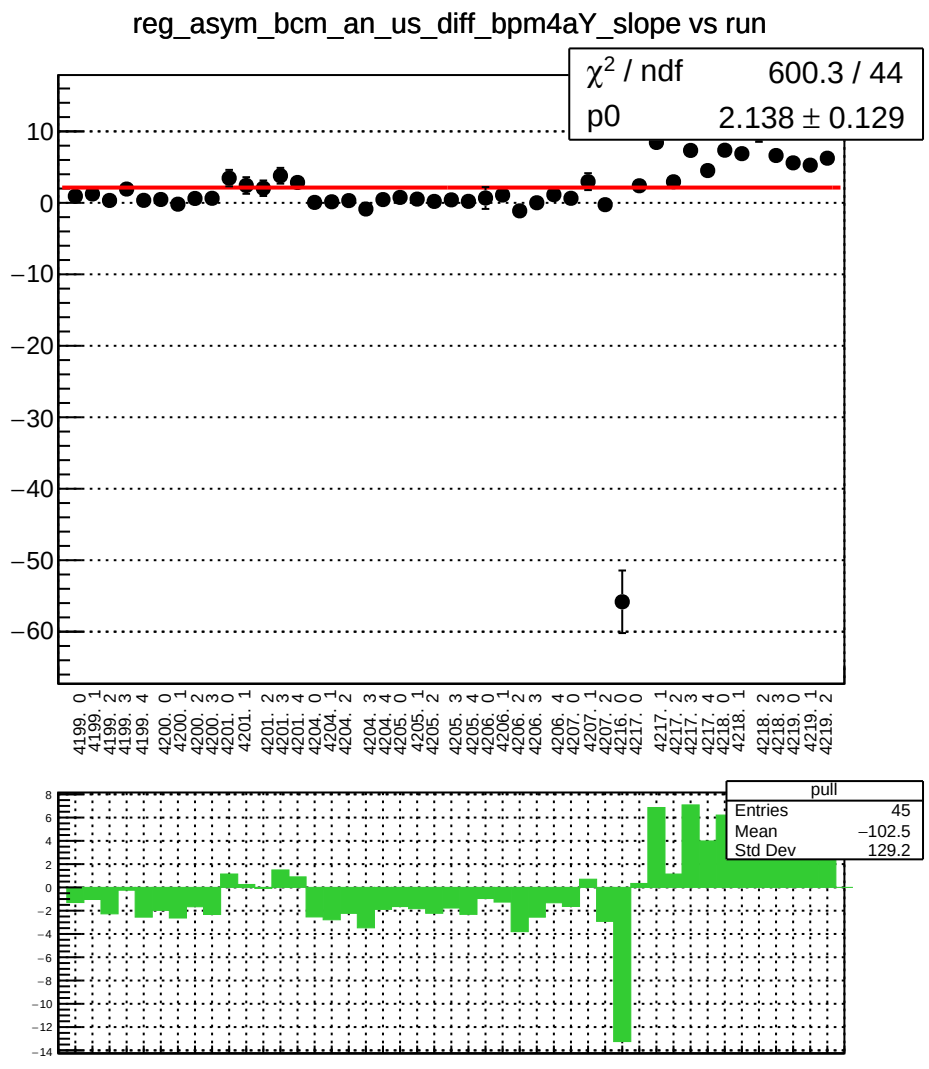

pull1D
Entries 45
Mean 0.3019
Std Dev 3.603

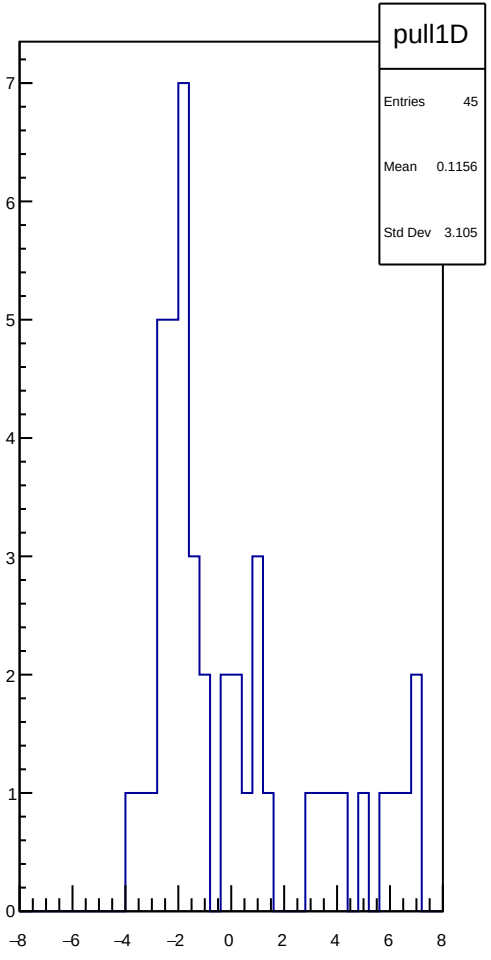

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 536.3 / 44
p0 −4.337 ± 0.2182
pull
Entries 45
Mean −78.47
Std Dev 105.4
pull1D
Entries 45
Mean −0.1227
Std Dev 2.816

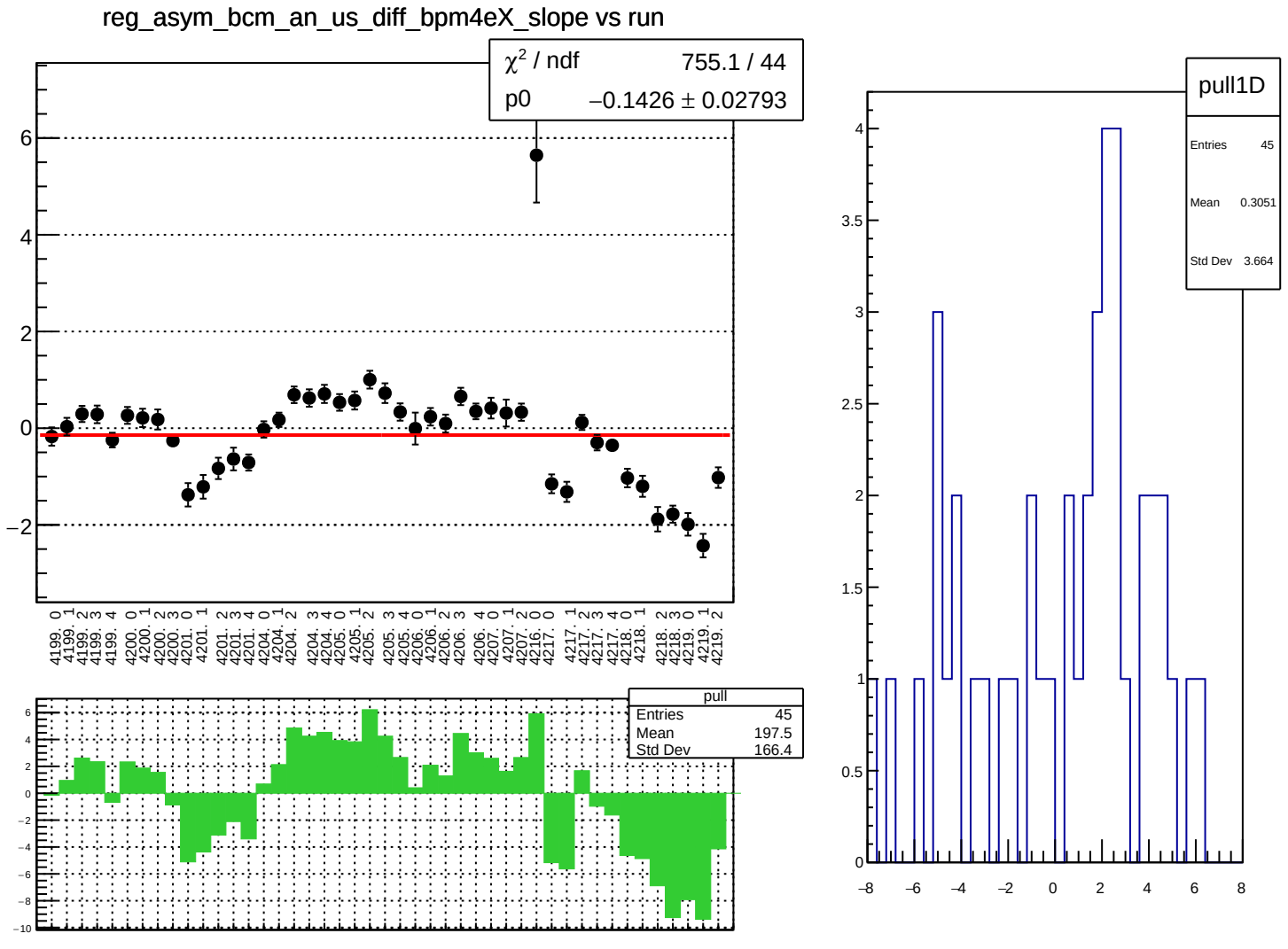

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 651.7 / 44
p0 0.689 ± 0.0387
pull
Entries 45
Mean −10.86
Std Dev 34.82
pull1D
Entries 45
Mean 1.409
Std Dev 2.905

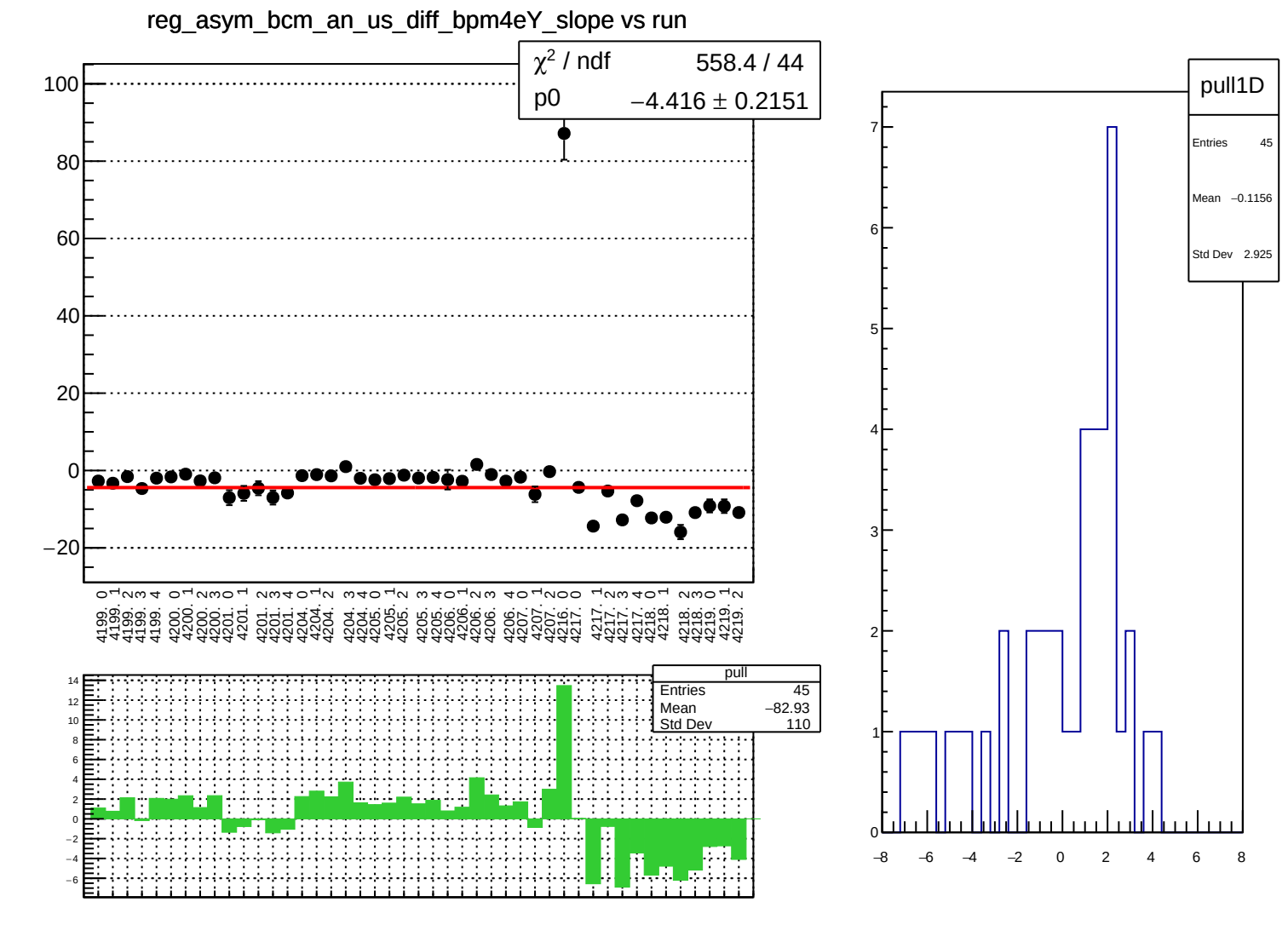

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 382.2 / 44
p0 −1.991 ± 0.1533
pull
Entries 45
Mean −4.094
Std Dev 27.2

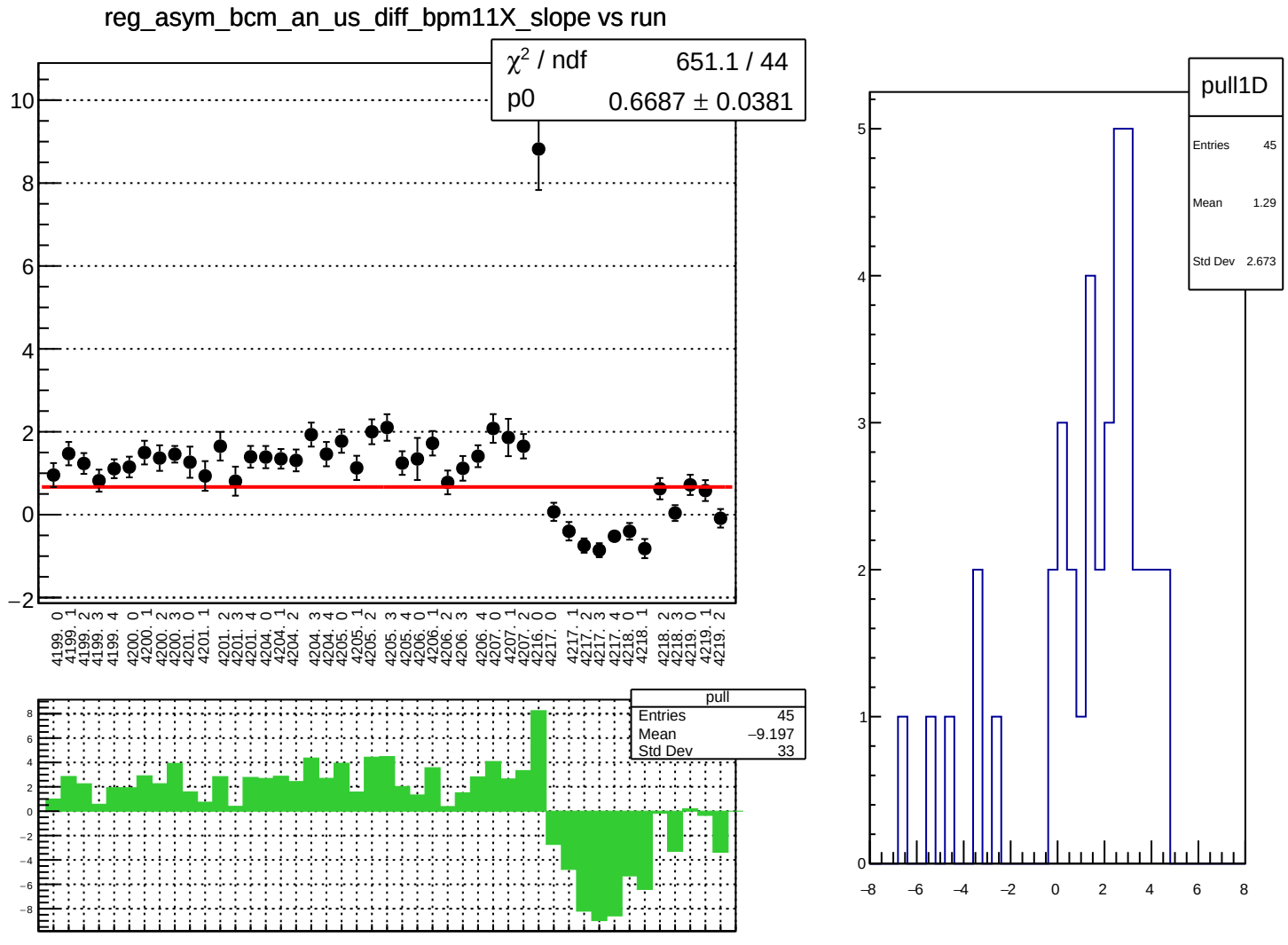

pull1D
Entries 45
Mean −0.1297
Std Dev 2.245

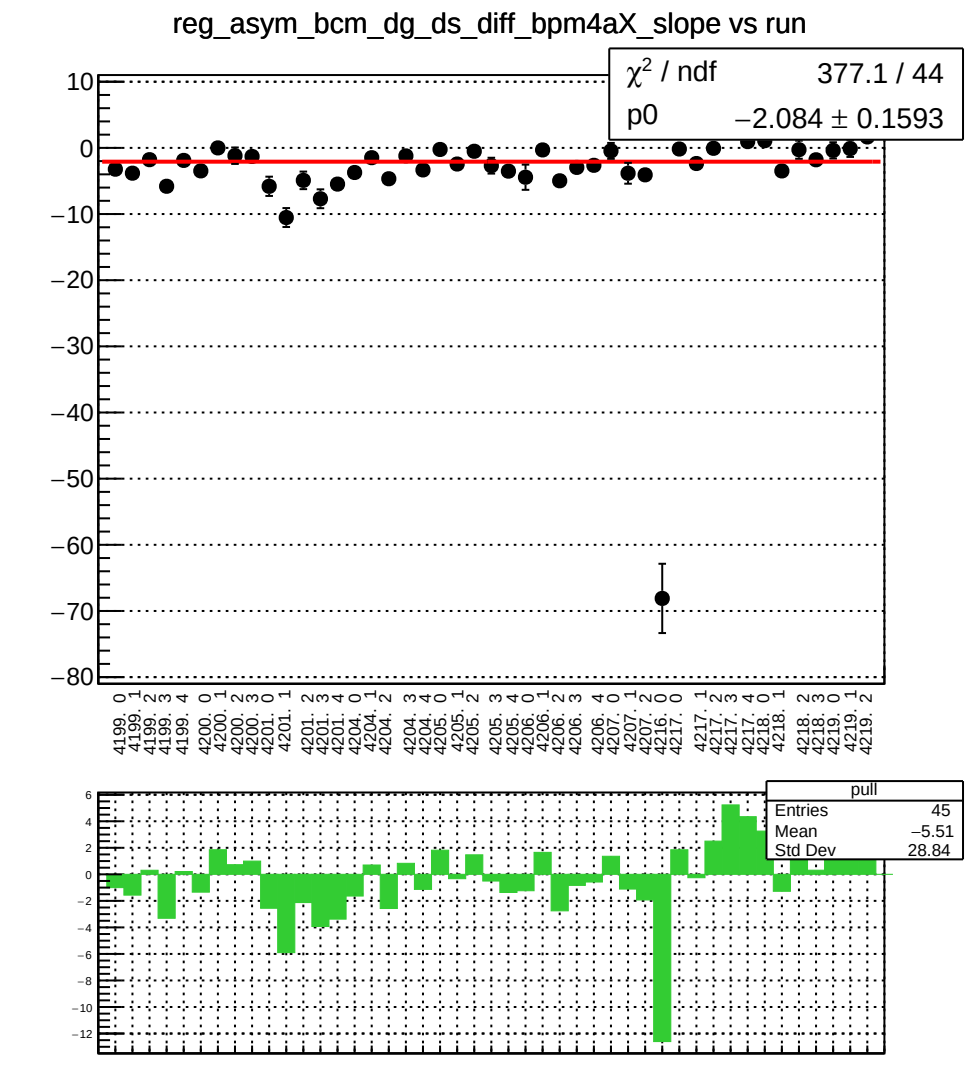

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 600.3 / 44
p0 2.138 ± 0.129
pull
Entries 45
Mean −102.5
Std Dev 129.2

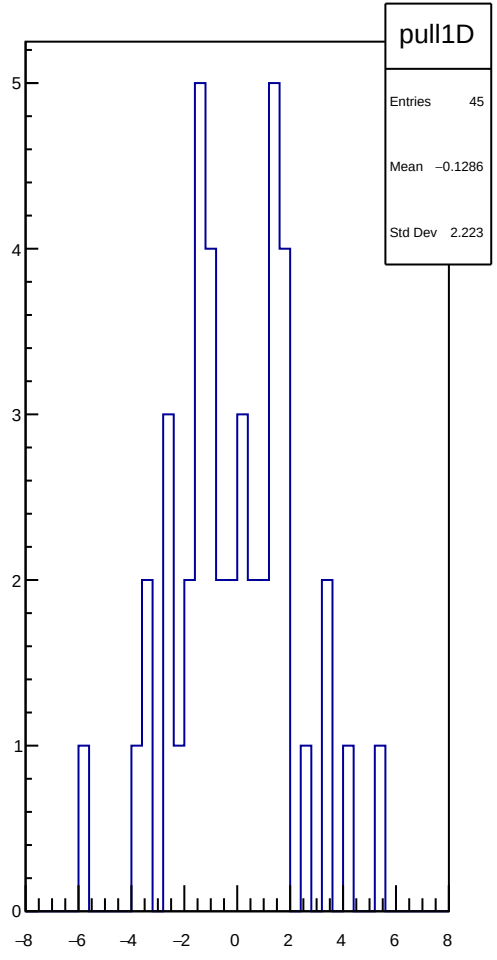

pull1D
Entries 45
Mean 0.1156
Std Dev 3.105

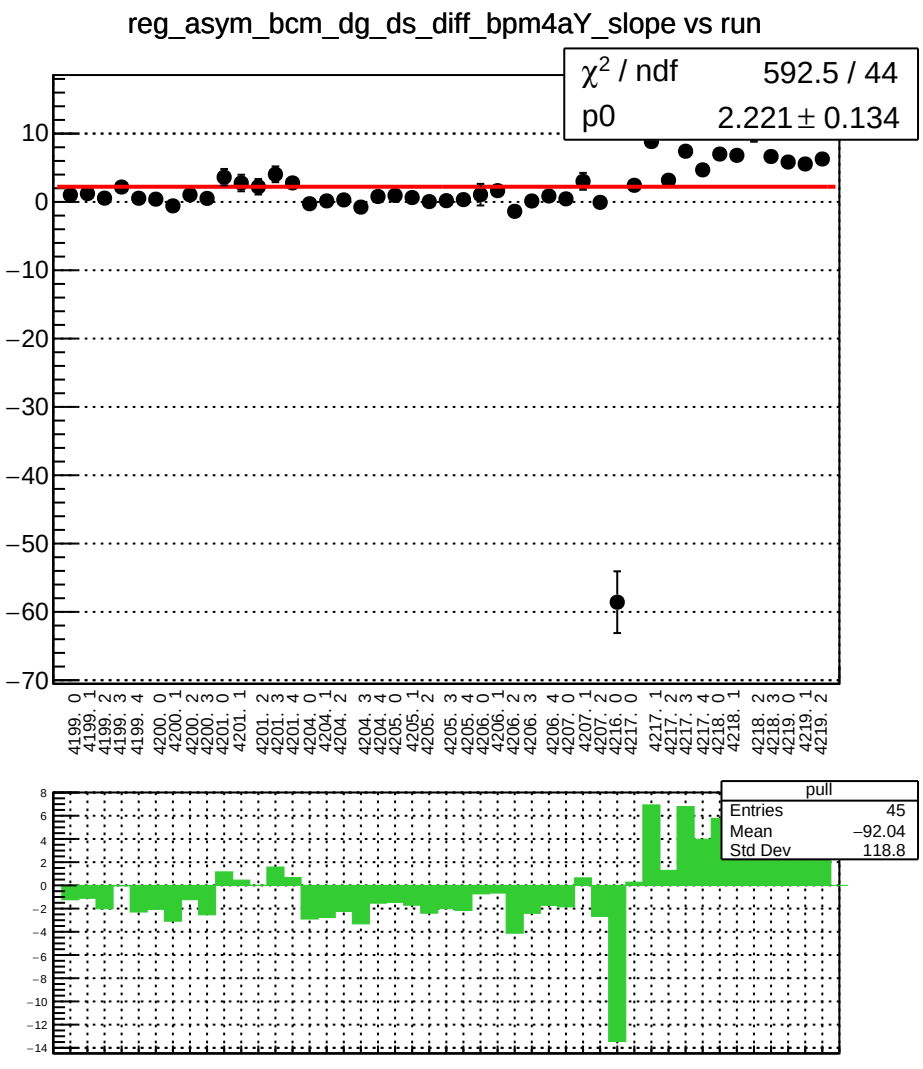

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 755.1 / 44
p0 −0.1426 ± 0.02793
pull
Entries 45
Mean 197.5
Std Dev 166.4
pull1D
Entries 45
Mean 0.3051
Std Dev 3.664

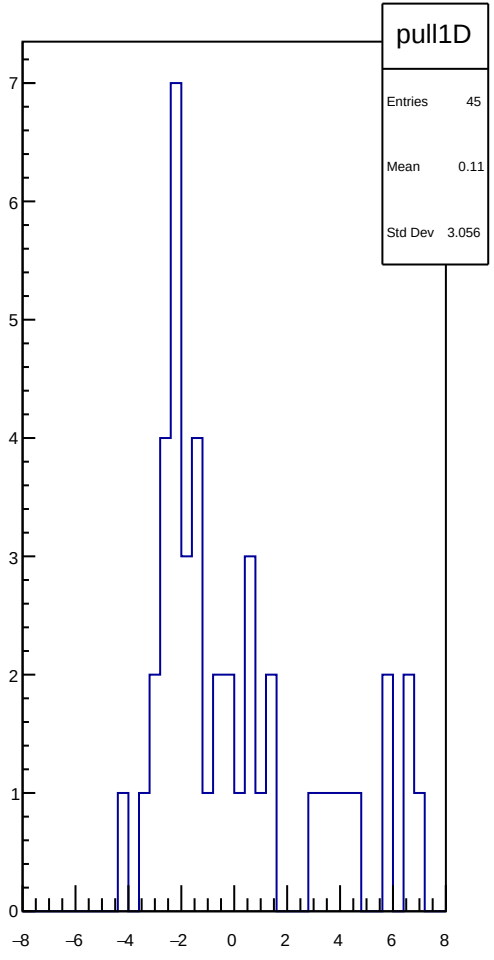

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 558.4 / 44
p0 −4.416 ± 0.2151
pull
Entries 45
Mean −82.93
Std Dev 110
pull1D
Entries 45
Mean −0.1156
Std Dev 2.925

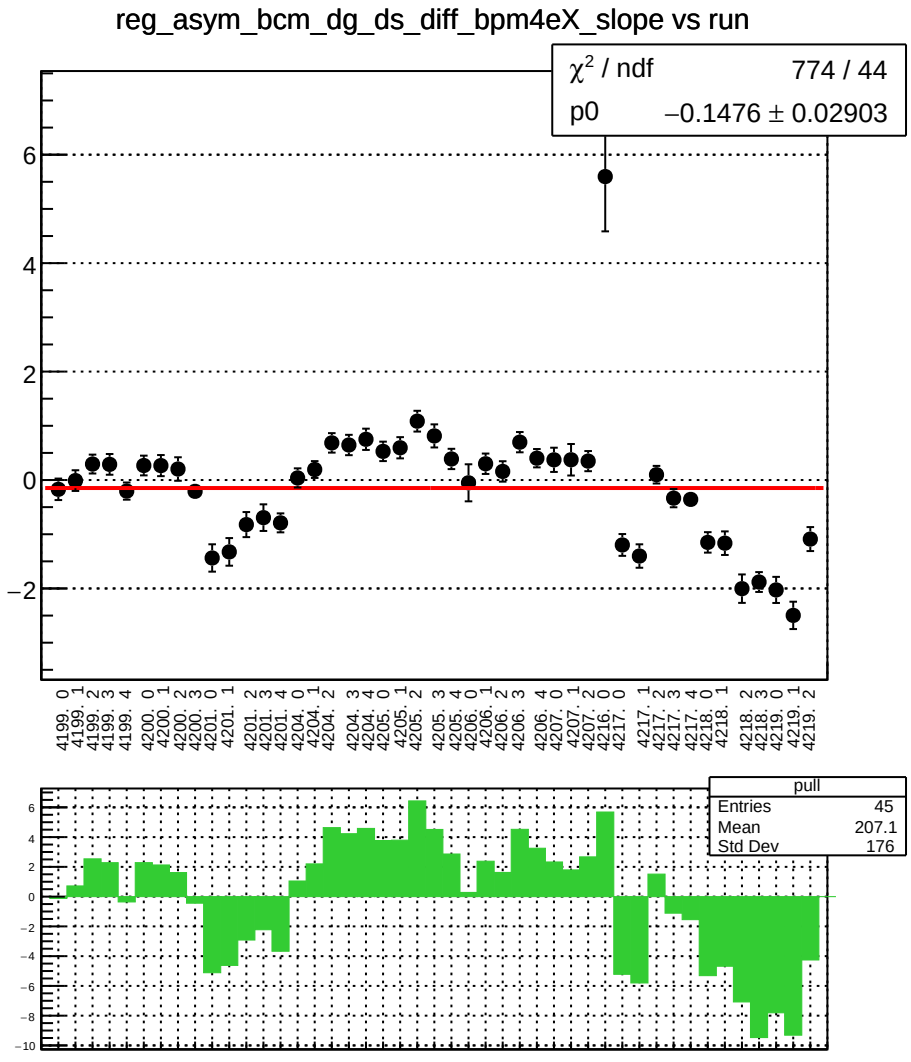

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 651.1 / 44
p0 0.6687 ± 0.0381
pull
Entries 45
Mean −9.197
Std Dev 33
pull1D
Entries 45
Mean 1.29
Std Dev 2.673

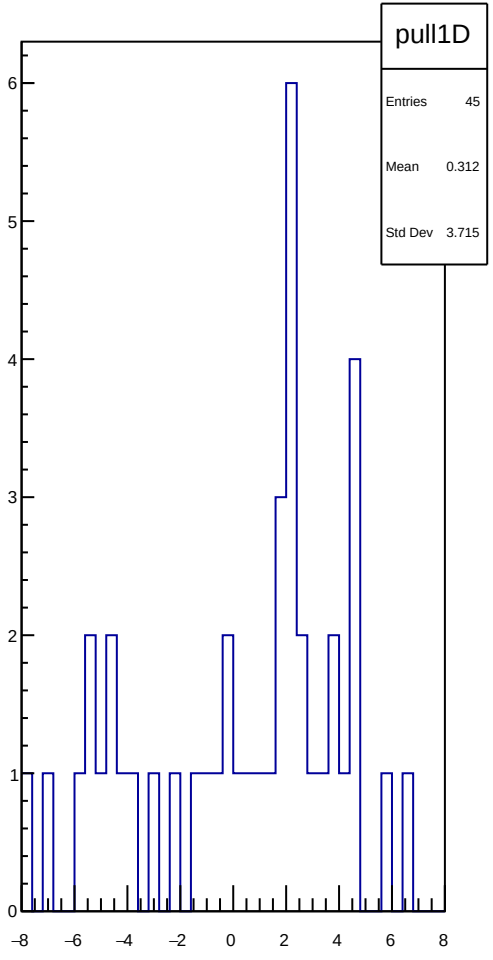

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 377.1 / 44
p0 −2.084 ± 0.1593
pull
Entries 45
Mean −5.51
Std Dev 28.84

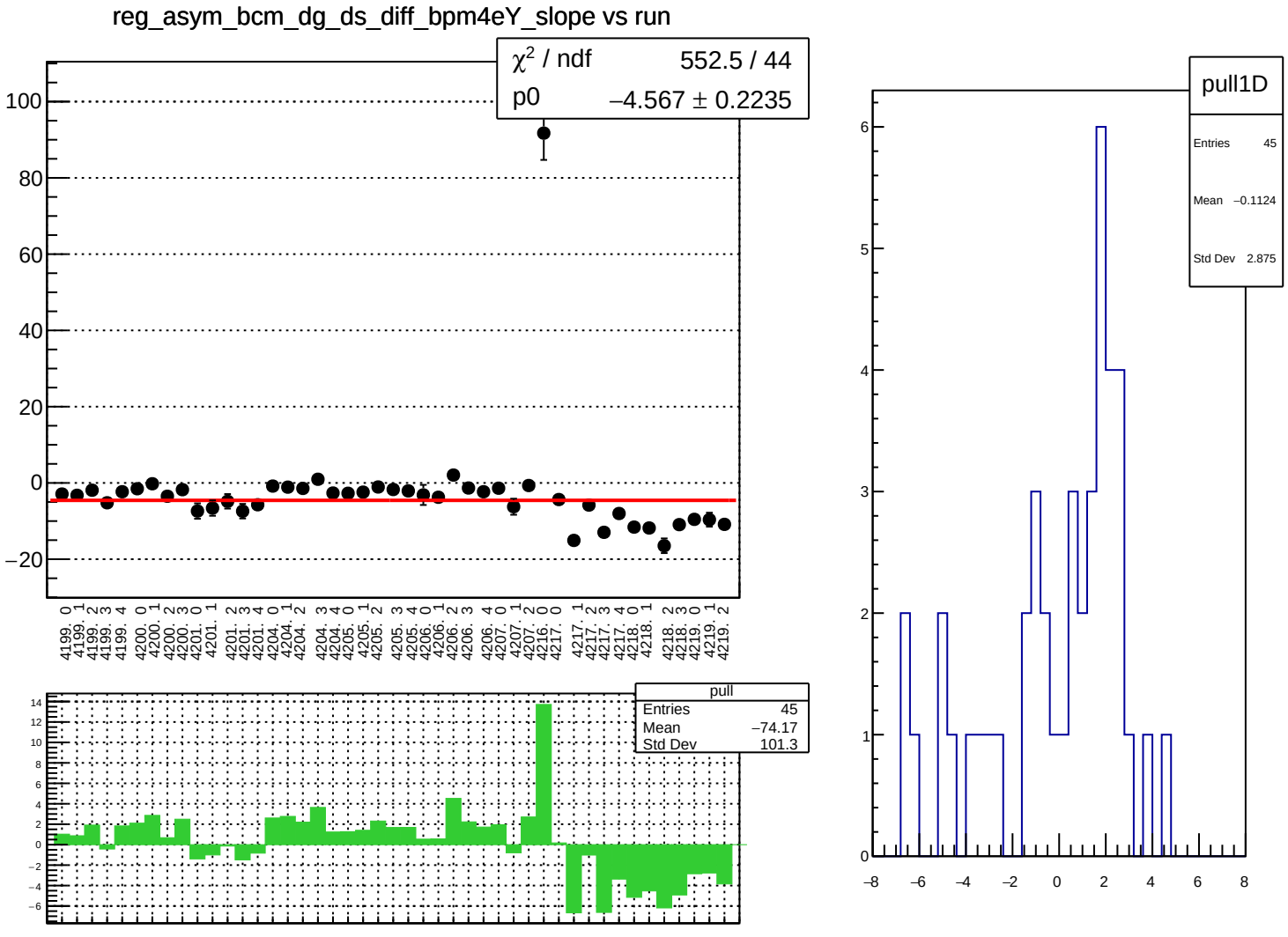

pull1D
Entries 45
Mean −0.1286
Std Dev 2.223

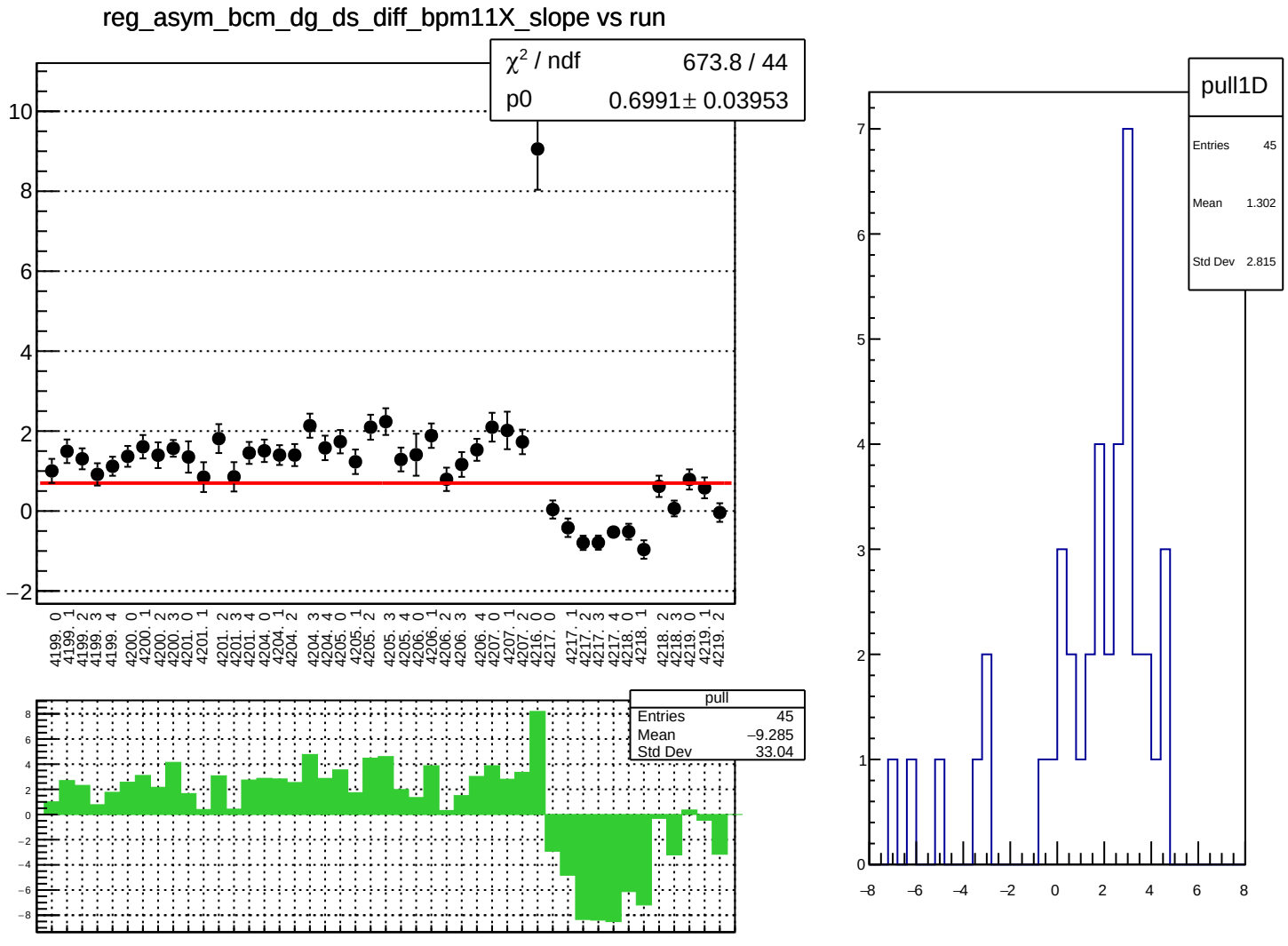

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 592.5 / 44
p0 2.221 ± 0.134
pull
Entries 45
Mean −92.04
Std Dev 118.8

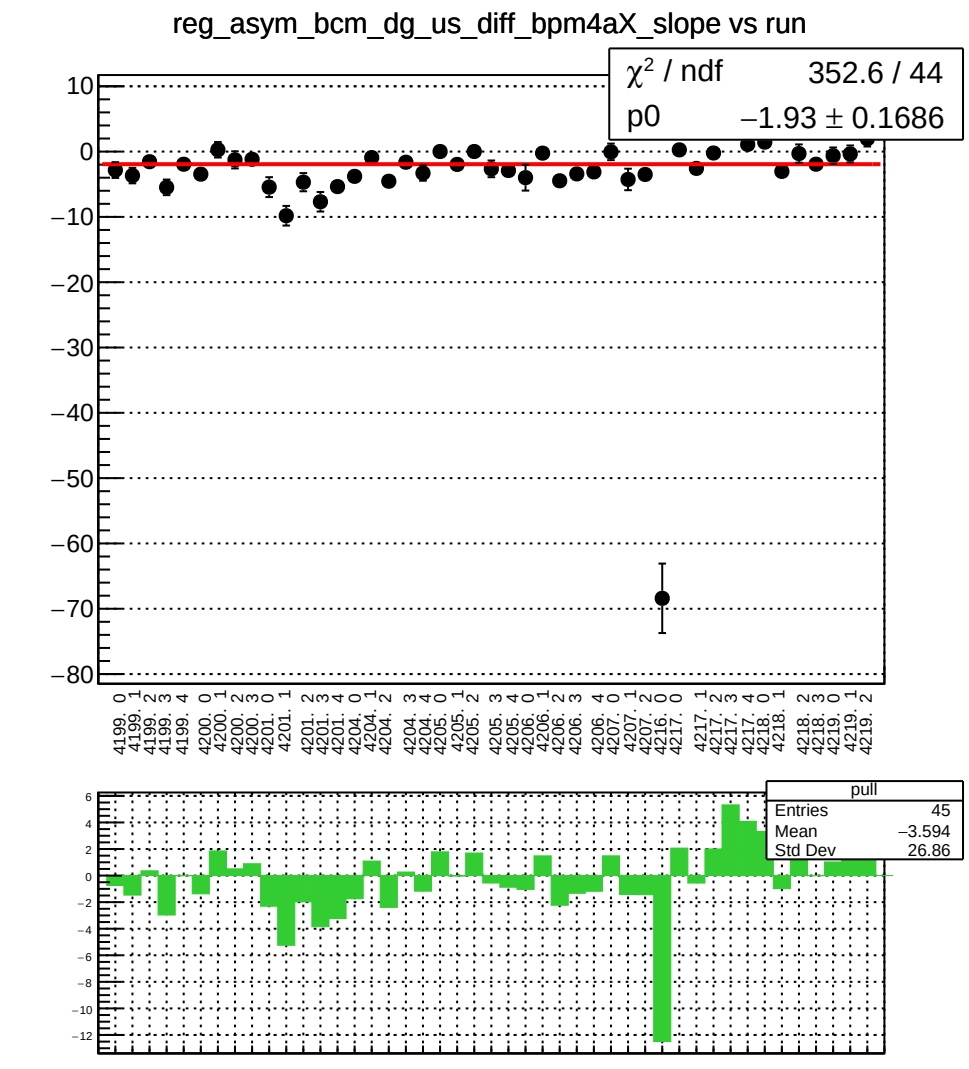

pull1D
Entries 45
Mean 0.11
Std Dev 3.056

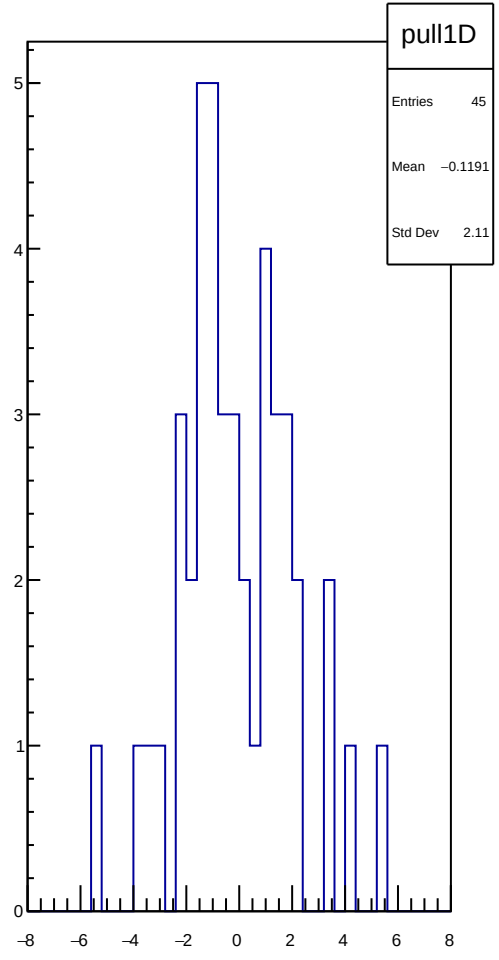

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 774 / 44
p0 −0.1476 ± 0.02903
pull
Entries 45
Mean 207.1
Std Dev 176

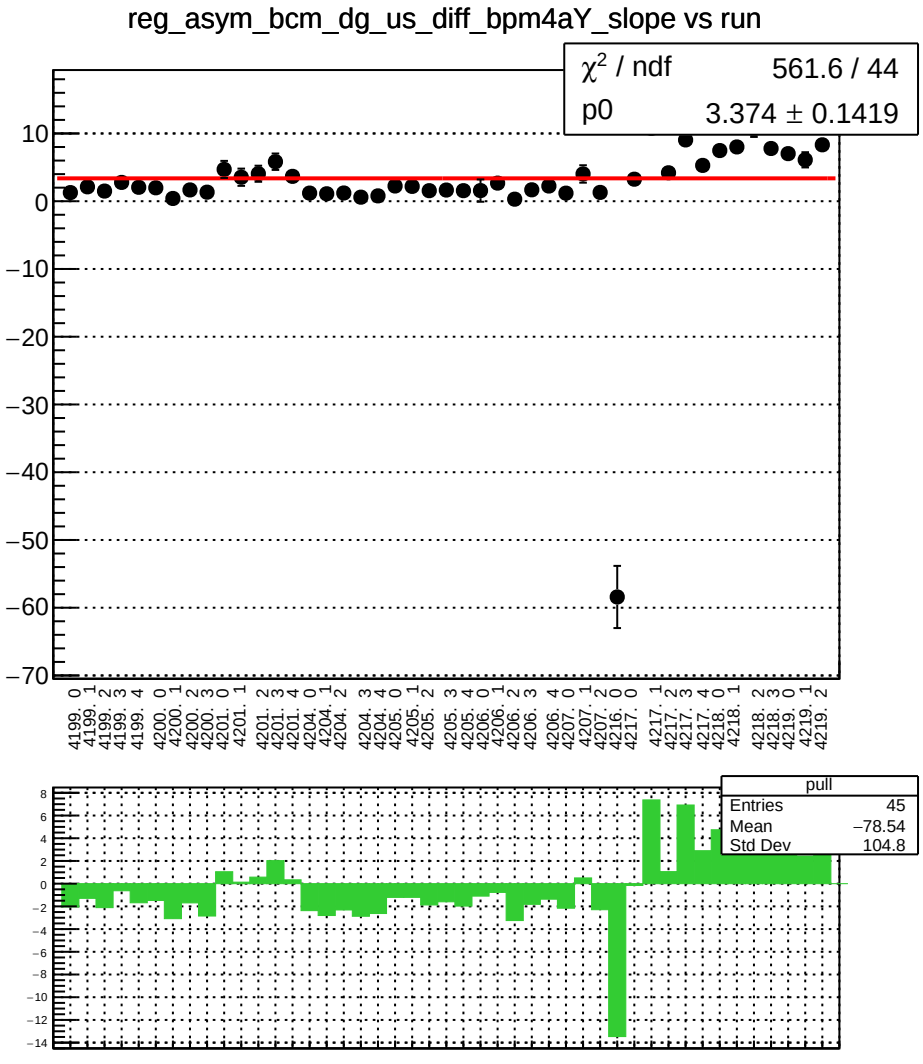

pull1D
Entries 45
Mean 0.312
Std Dev 3.715

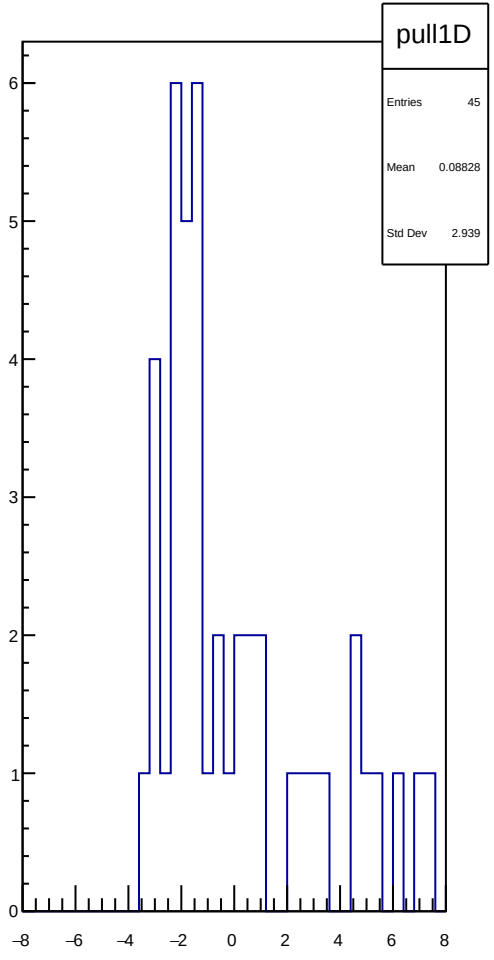

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 552.5 / 44
p0 −4.567 ± 0.2235
pull
Entries 45
Mean −74.17
Std Dev 101.3
pull1D
Entries 45
Mean −0.1124
Std Dev 2.875

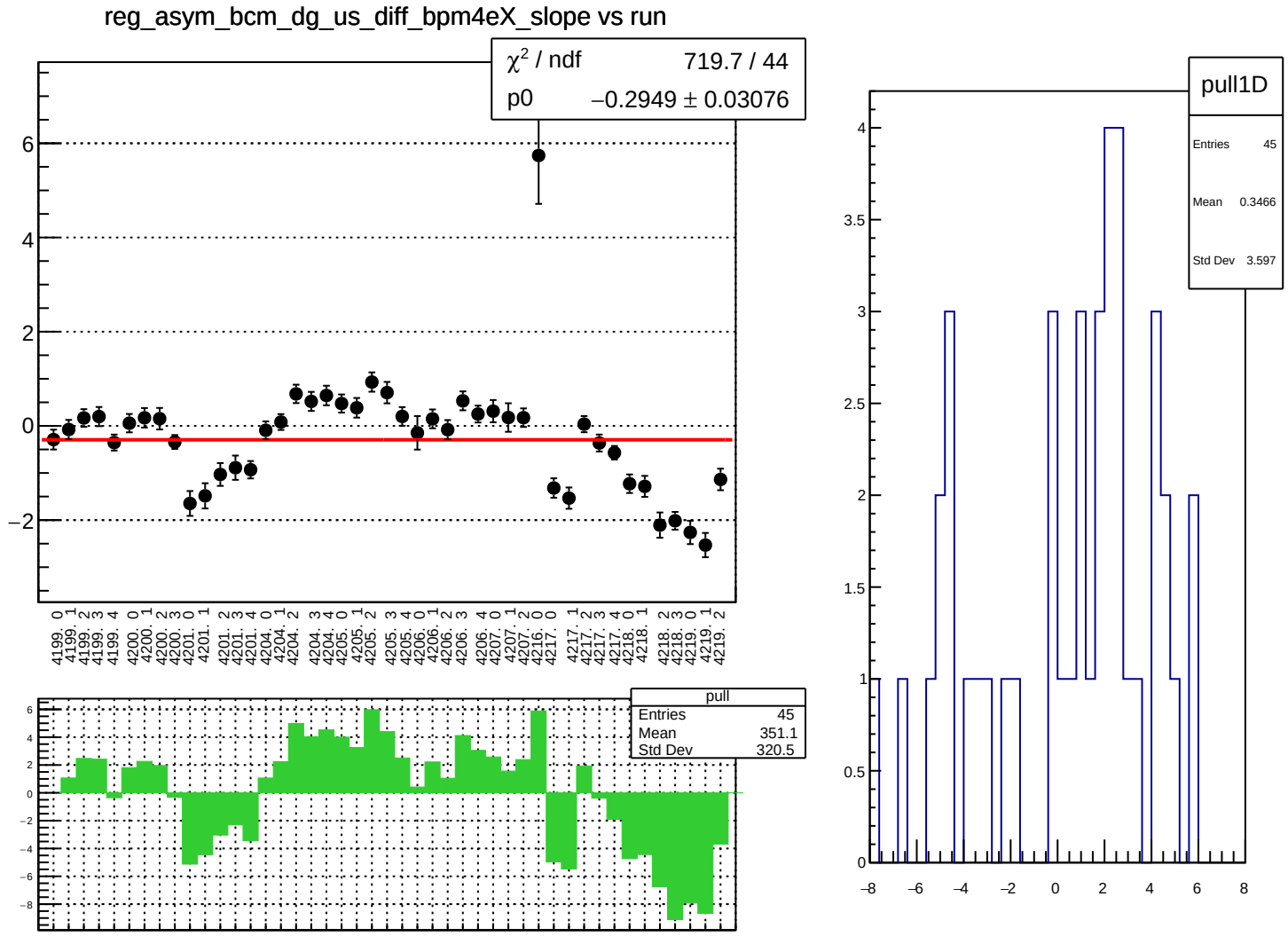

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 673.8 / 44
p0 0.6991± 0.03953
pull
Entries 45
Mean −9.285
Std Dev 33.04
pull1D
Entries 45
Mean 1.302
Std Dev 2.815

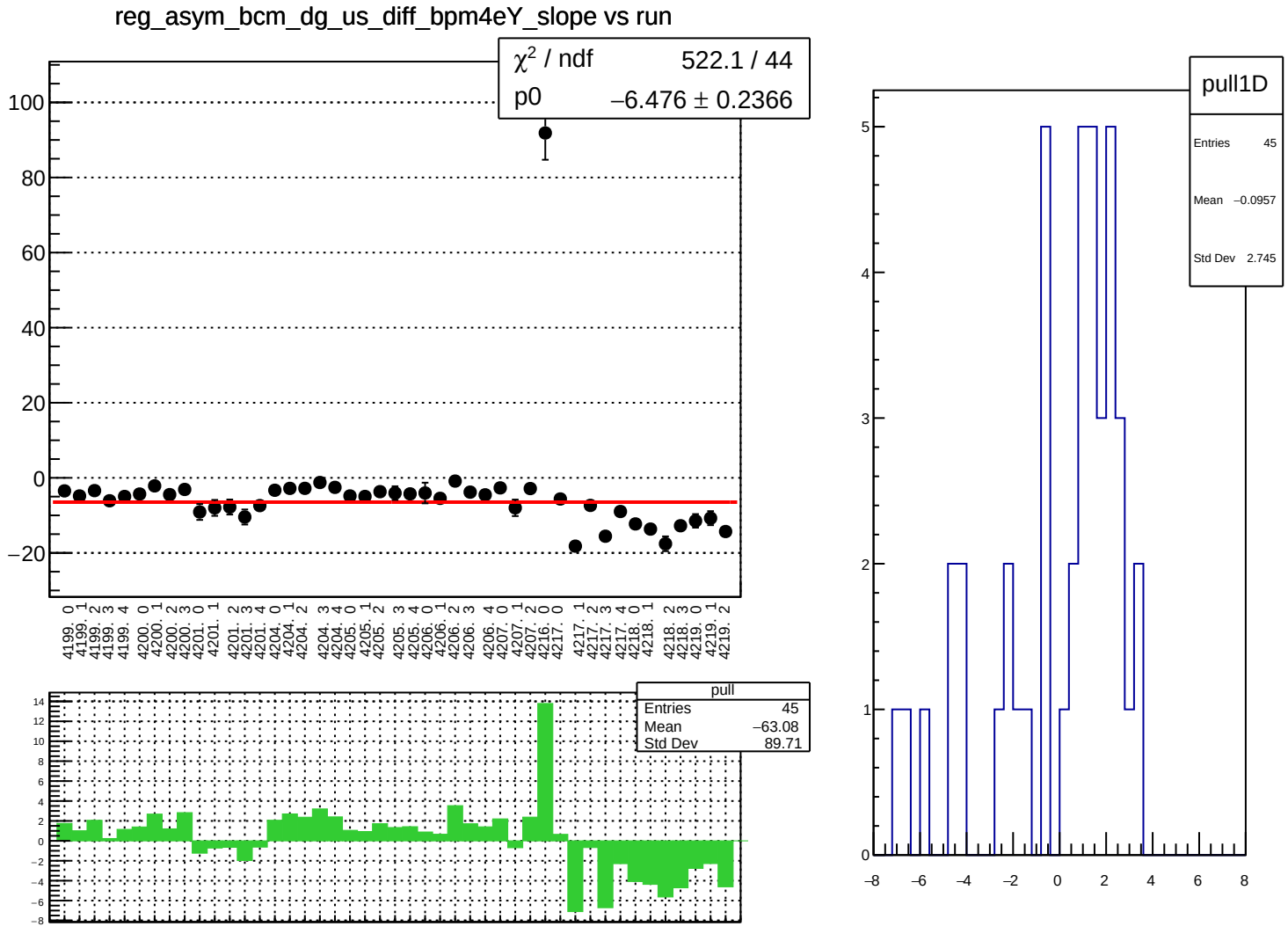

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 352.6 / 44
p0 −1.93 ± 0.1686
pull
Entries 45
Mean −3.594
Std Dev 26.86

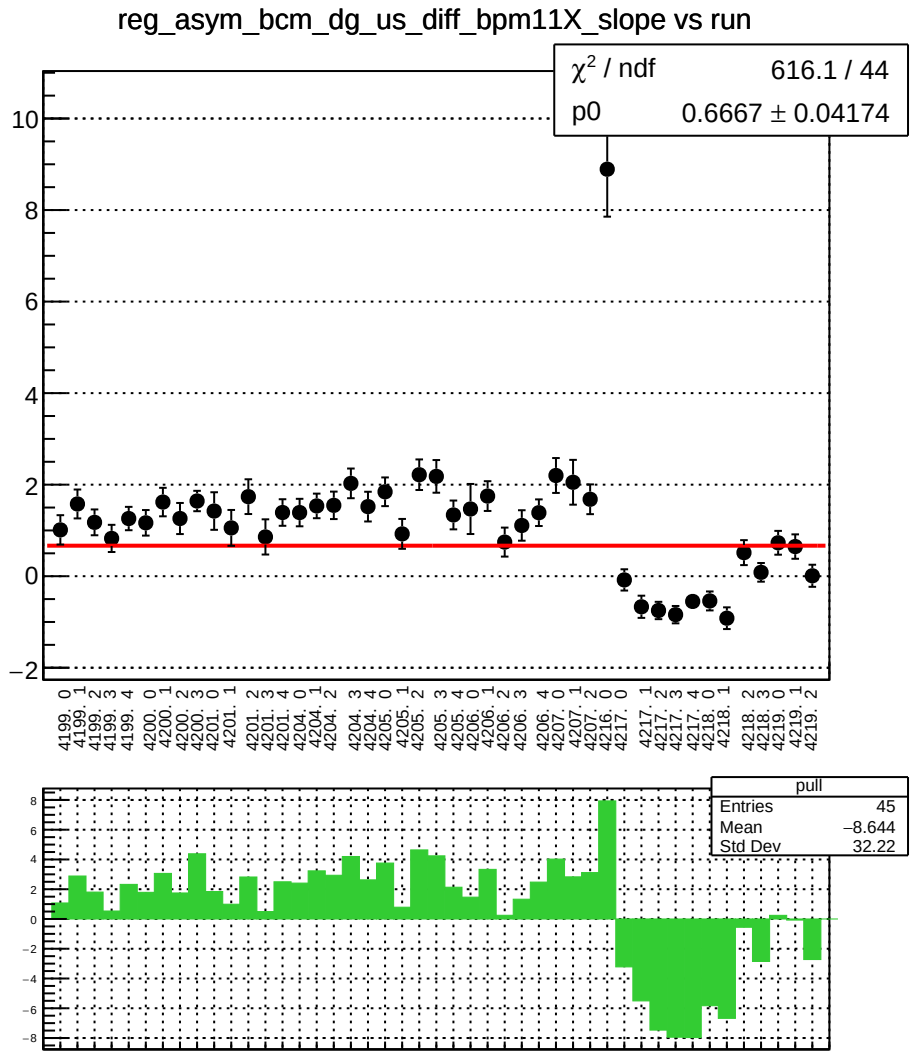

pull1D
Entries 45
Mean −0.1191
Std Dev 2.11

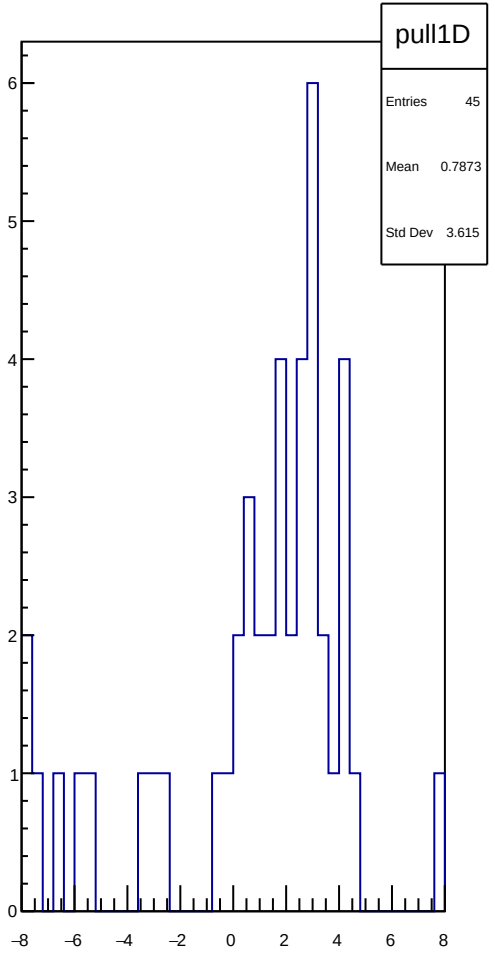

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 561.6 / 44
p0 3.374 ± 0.1419
pull
Entries 45
Mean −78.54
Std Dev 104.8

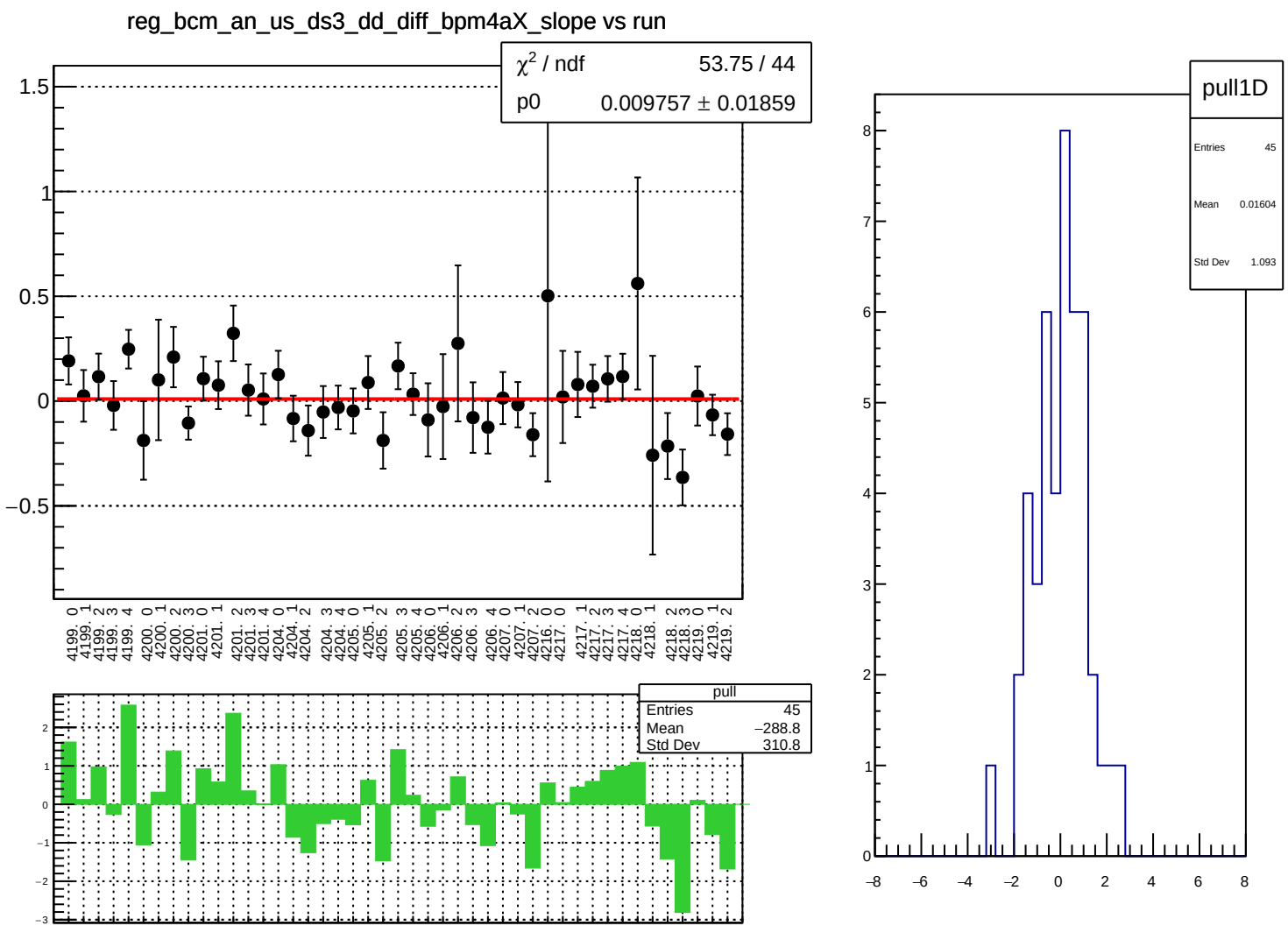

pull1D
Entries 45
Mean 0.08828
Std Dev 2.939

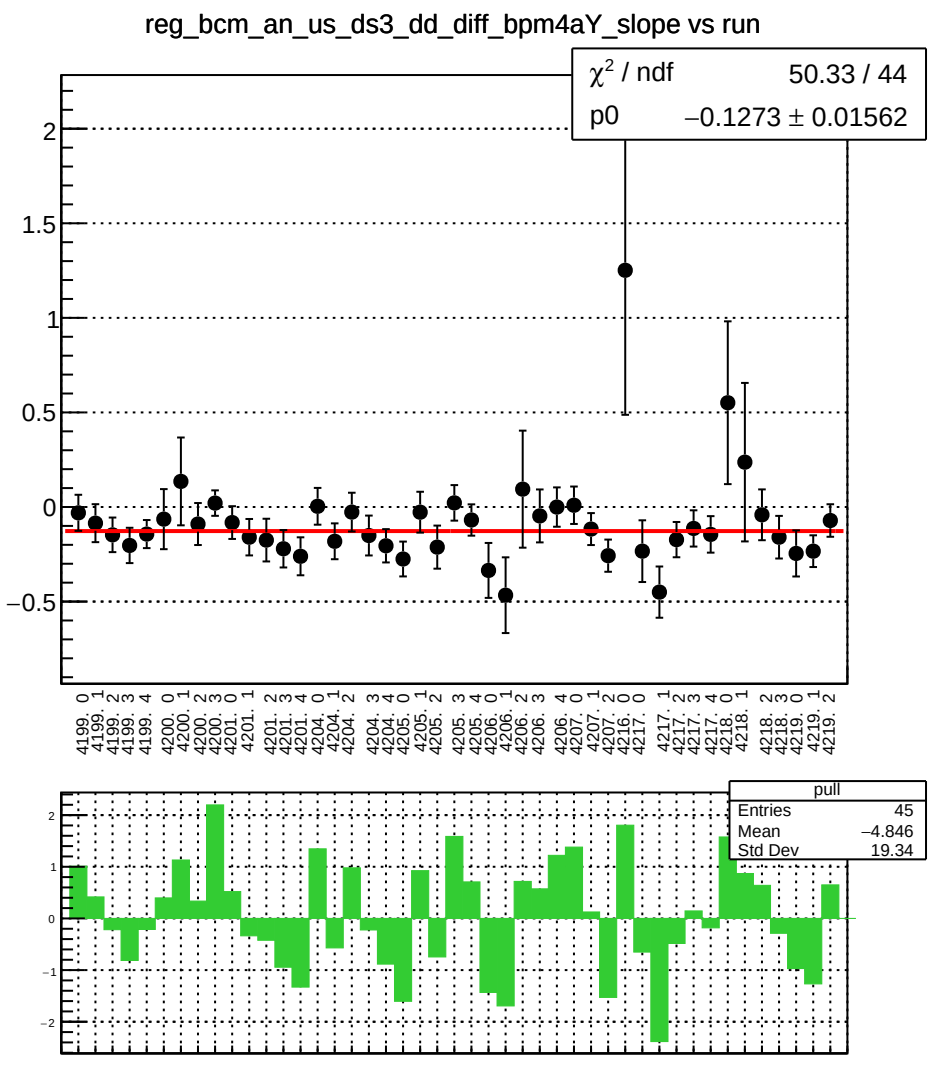

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 719.7 / 44
p0 −0.2949 ± 0.03076
pull
Entries 45
Mean 351.1
Std Dev 320.5
pull1D
Entries 45
Mean 0.3466
Std Dev 3.597

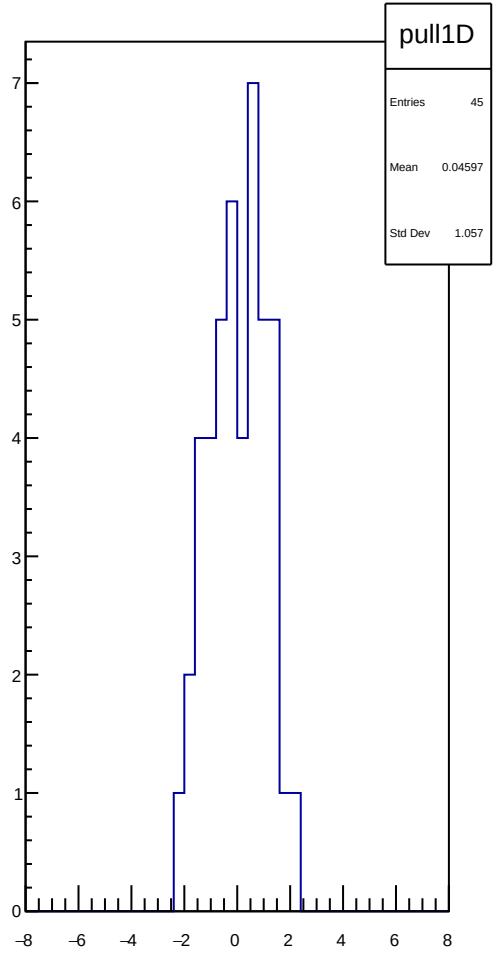

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 522.1 / 44
p0 −6.476 ± 0.2366
pull
Entries 45
Mean −63.08
Std Dev 89.71
pull1D
Entries 45
Mean −0.0957
Std Dev 2.745

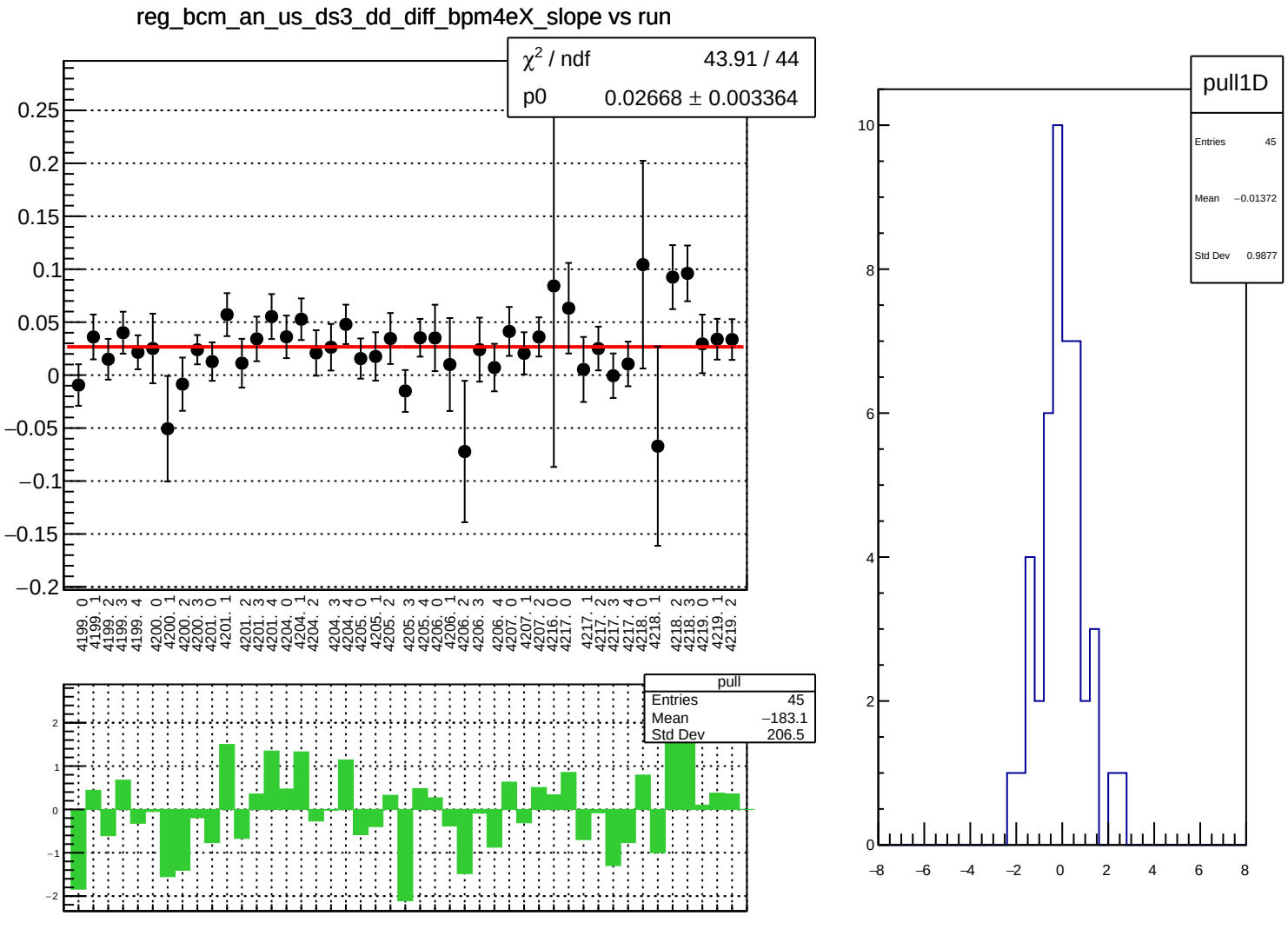

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 616.1 / 44
p0 0.6667 ± 0.04174
pull
Entries 45
Mean −8.644
Std Dev 32.22

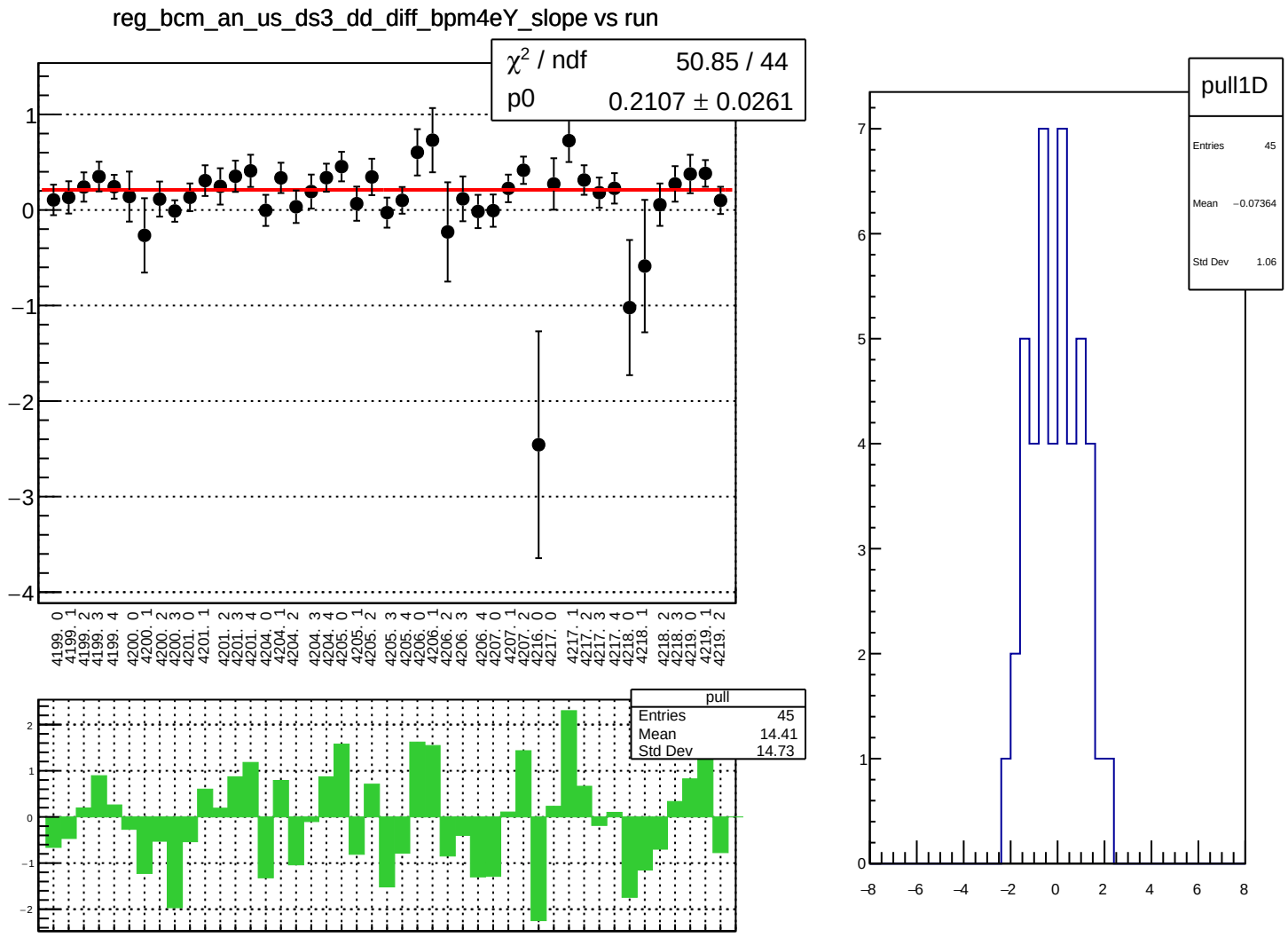

pull1D
Entries 45
Mean 0.7873
Std Dev 3.615

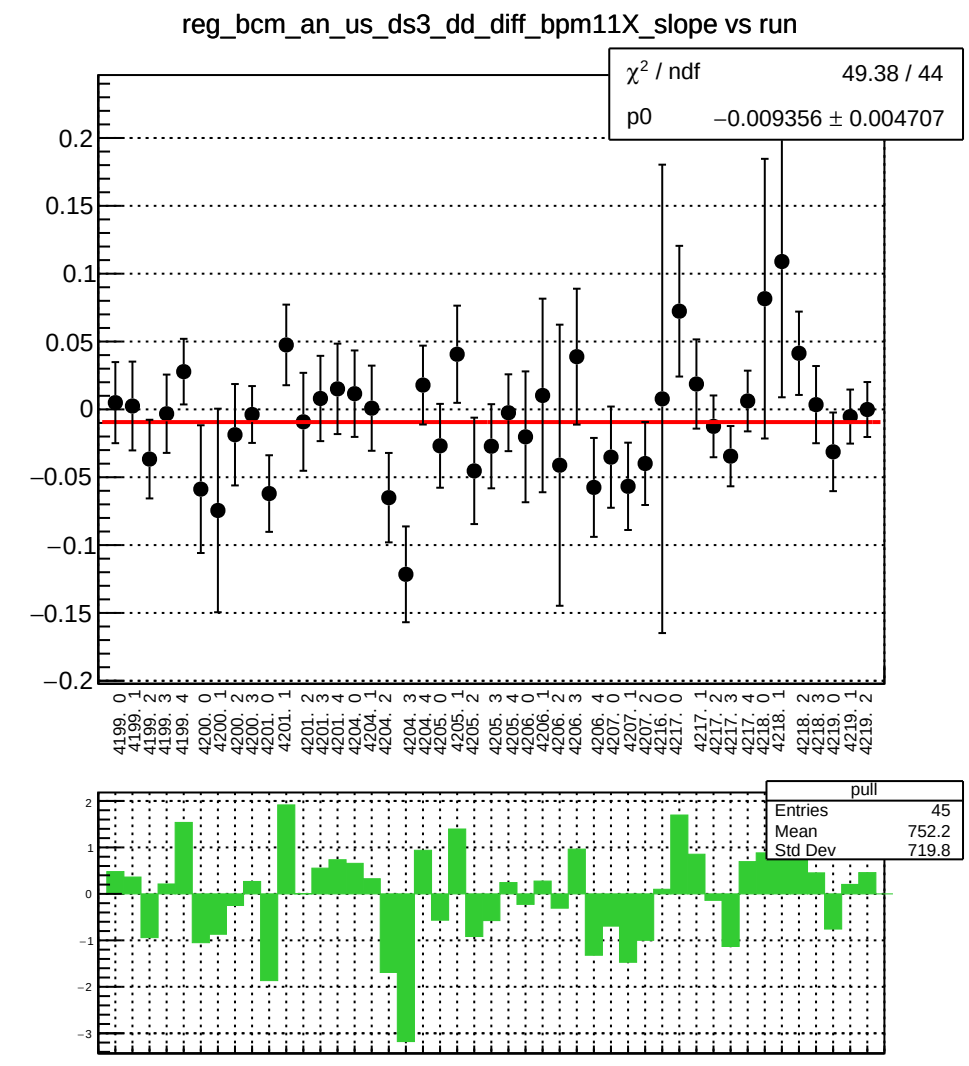

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 53.75 / 44
p0 0.009757 ± 0.01859
pull
Entries 45
Mean −288.8
Std Dev 310.8
pull1D
Entries 45
Mean 0.01604
Std Dev 1.093

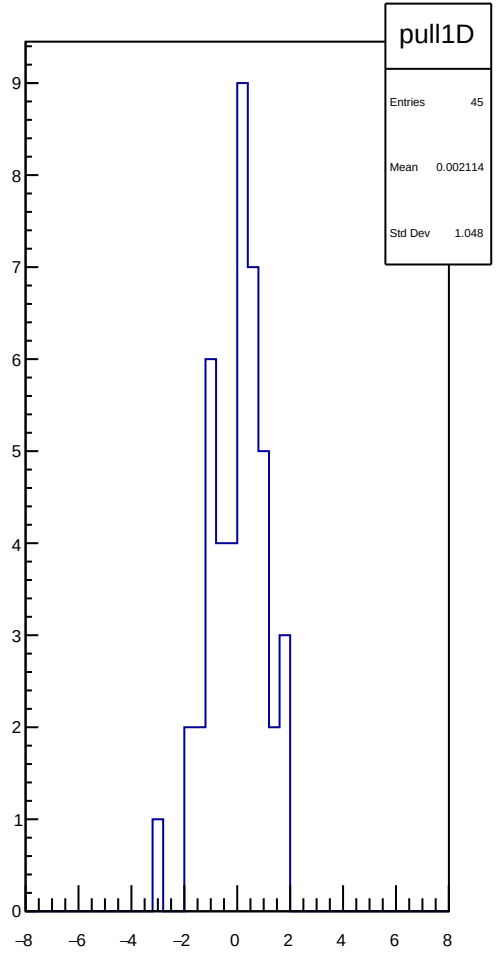

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.33 / 44
p0 −0.1273 ± 0.01562
pull
Entries 45
Mean −4.846
Std Dev 19.34

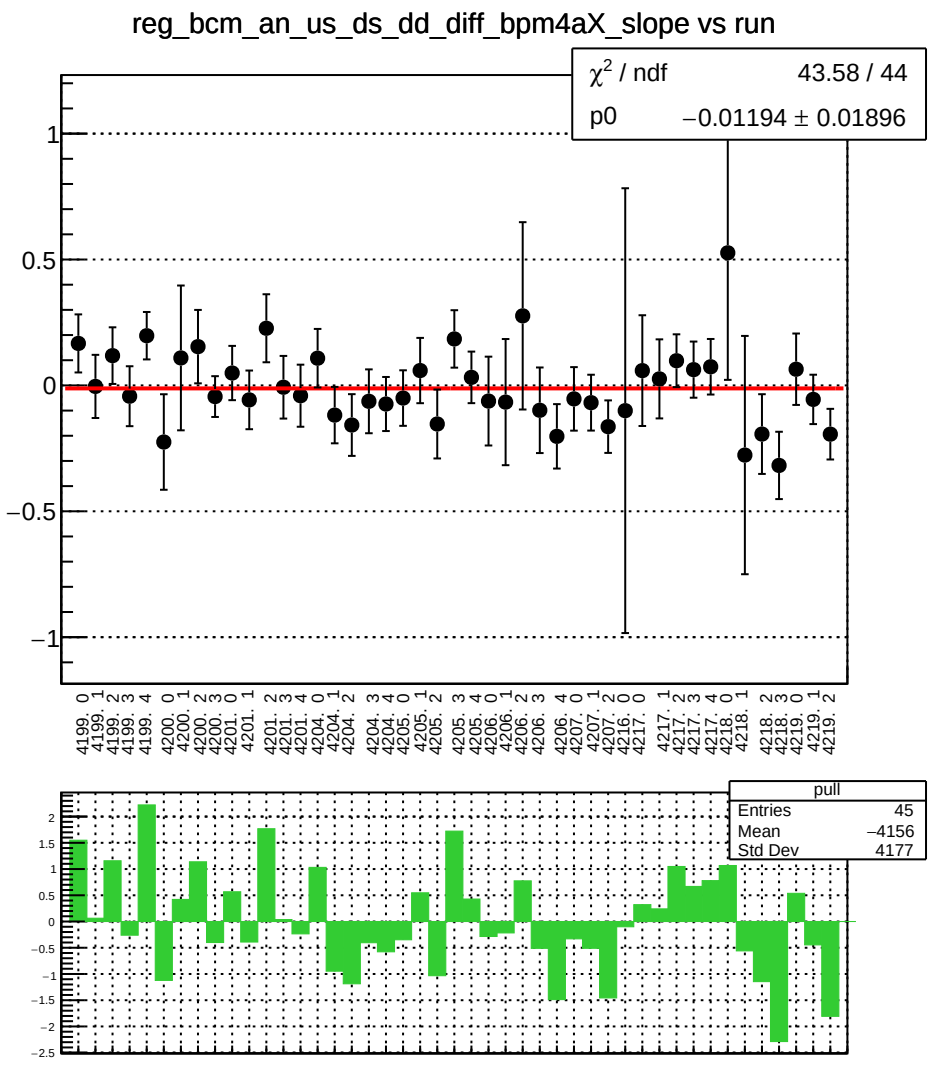

pull1D
Entries 45
Mean 0.04597
Std Dev 1.057

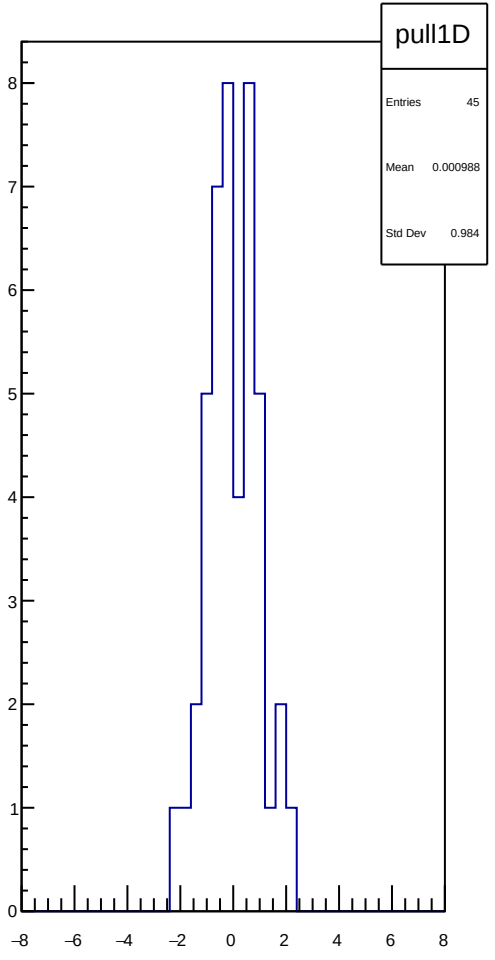

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.91 / 44
p0 0.02668 ± 0.003364
pull
Entries 45
Mean −183.1
Std Dev 206.5
pull1D
Entries 45
Mean −0.01372
Std Dev 0.9877

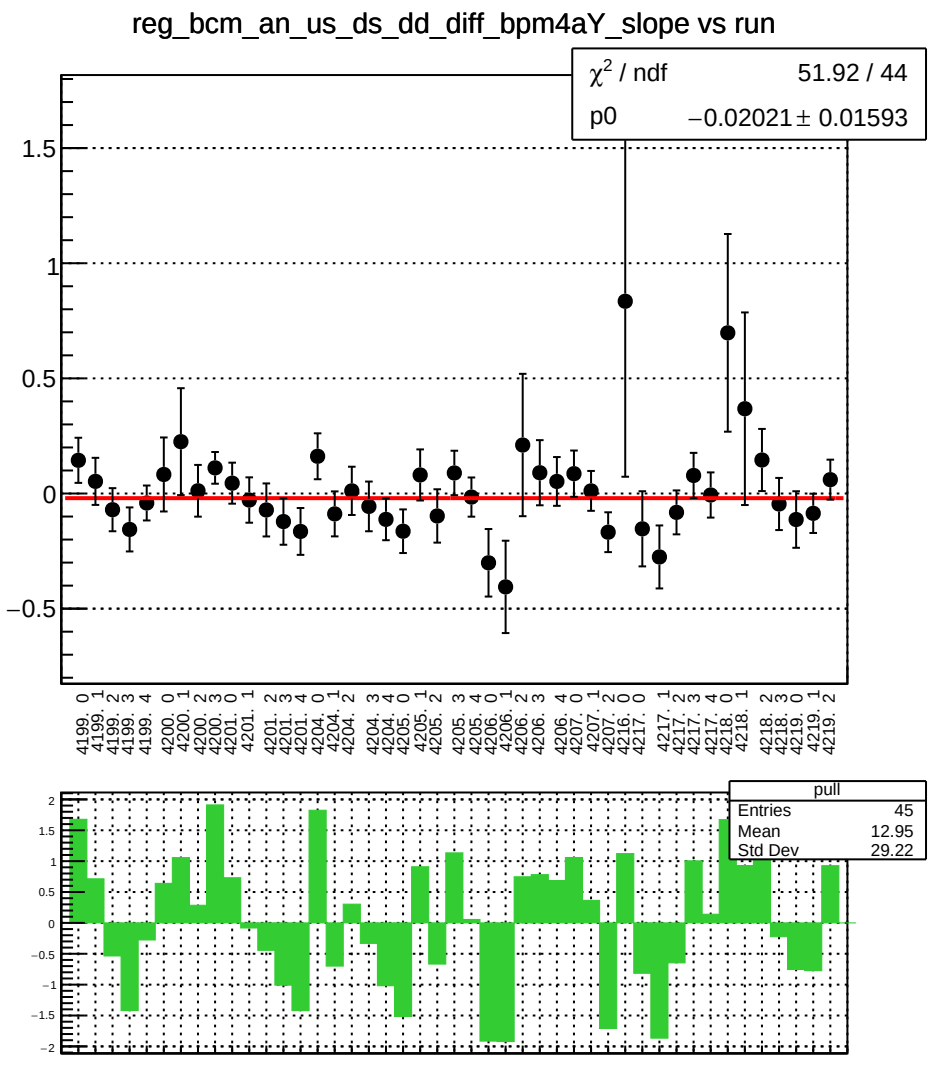

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.85 / 44
p0 0.2107 ± 0.0261
pull
Entries 45
Mean 14.41
Std Dev 14.73
pull1D
Entries 45
Mean −0.07364
Std Dev 1.06

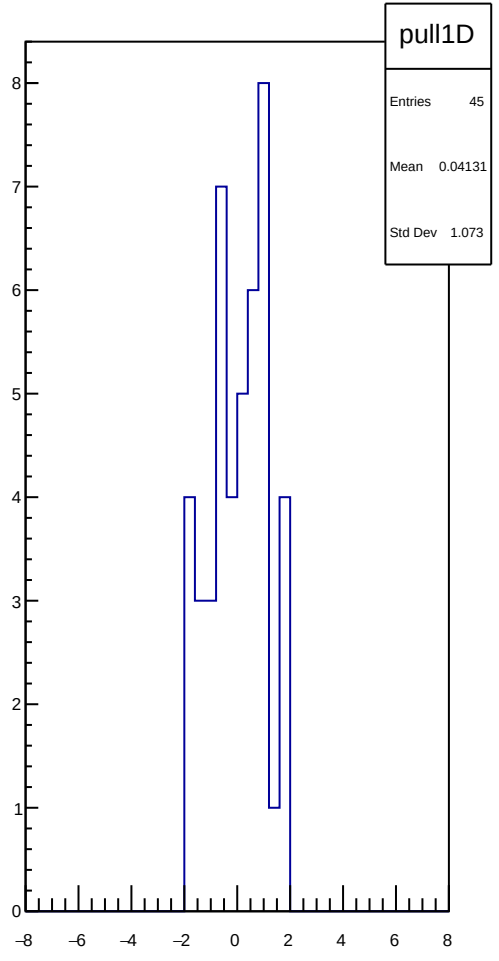

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 49.38 / 44
p0 −0.009356 ± 0.004707
pull
Entries 45
Mean 752.2
Std Dev 719.8

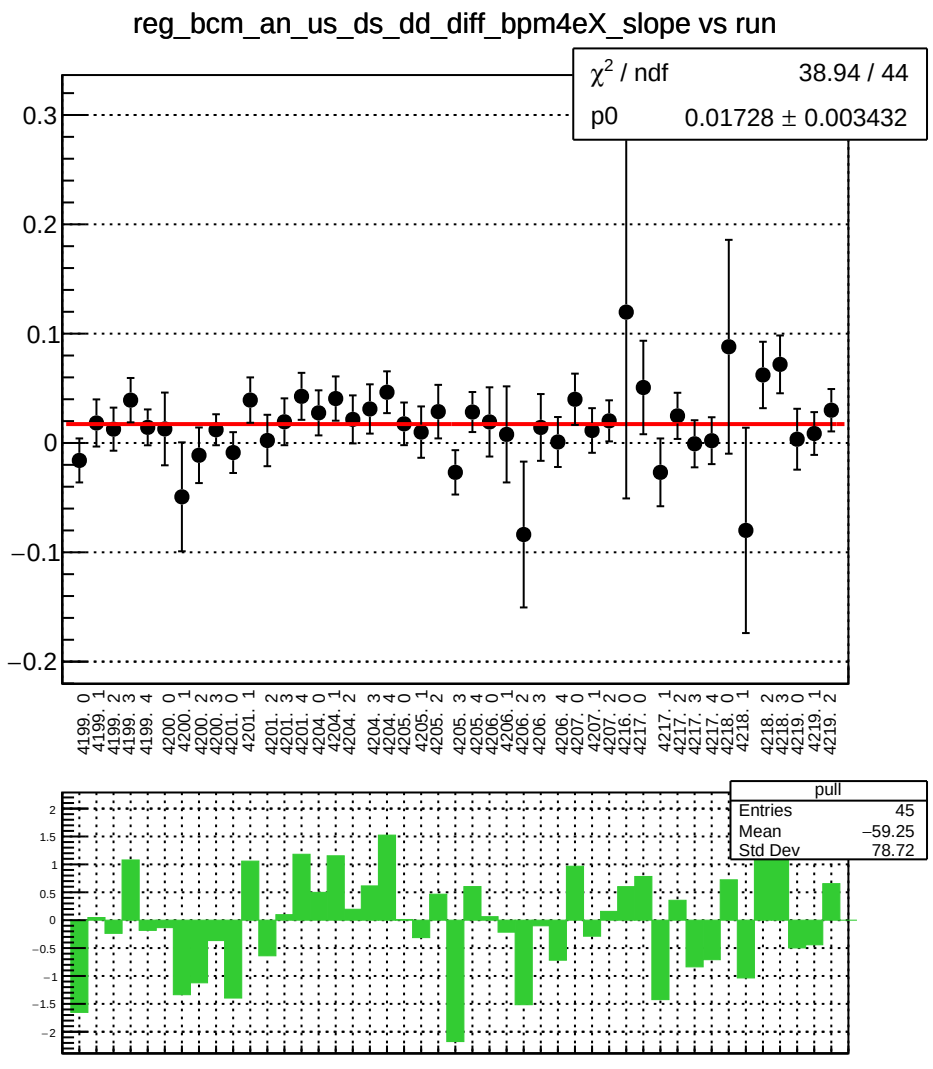

pull1D
Entries 45
Mean 0.002114
Std Dev 1.048

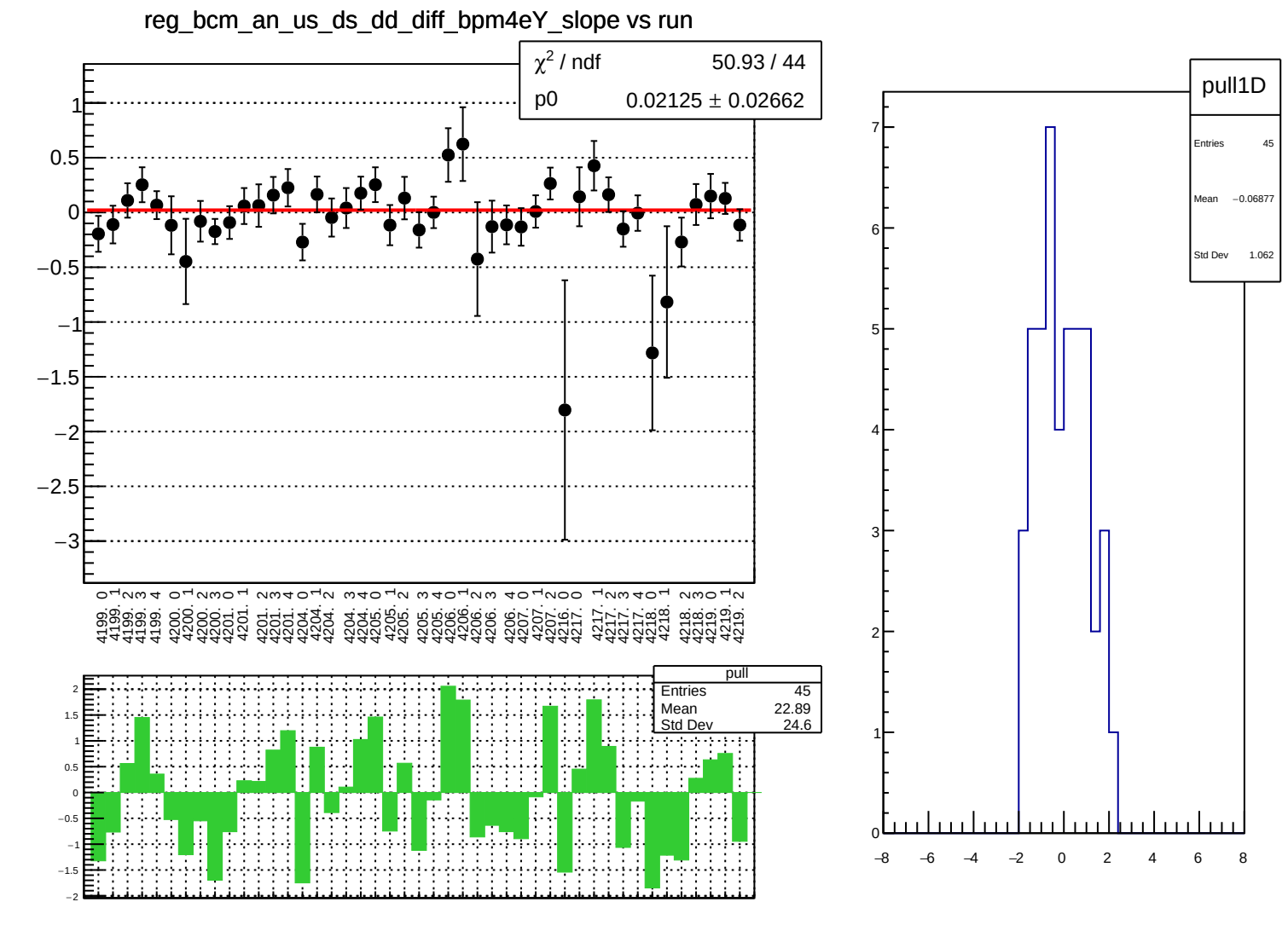

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.58 / 44
p0 −0.01194 ± 0.01896
pull
Entries 45
Mean −4156
Std Dev 4177

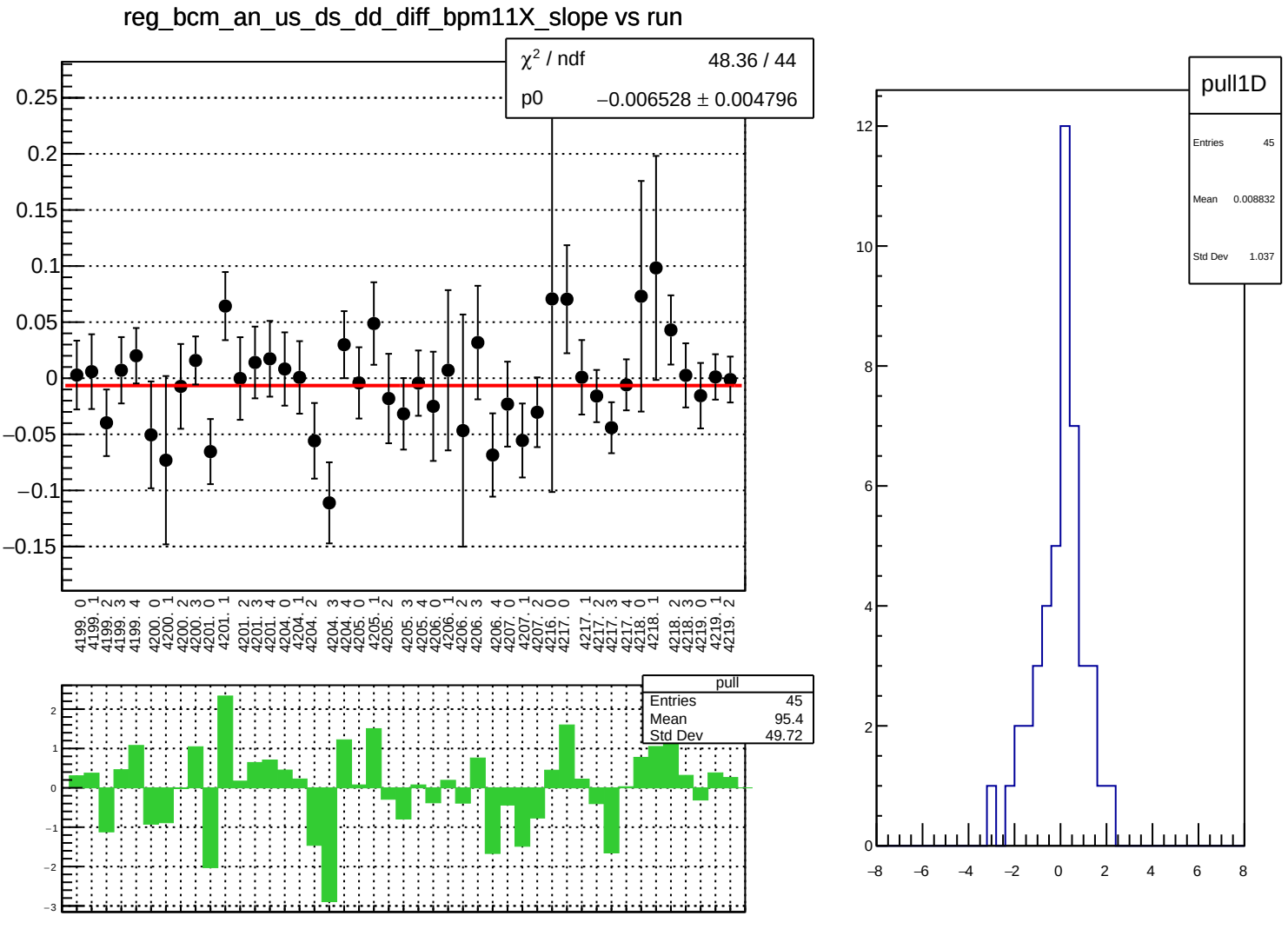

pull1D
Entries 45
Mean 0.000988
Std Dev 0.984

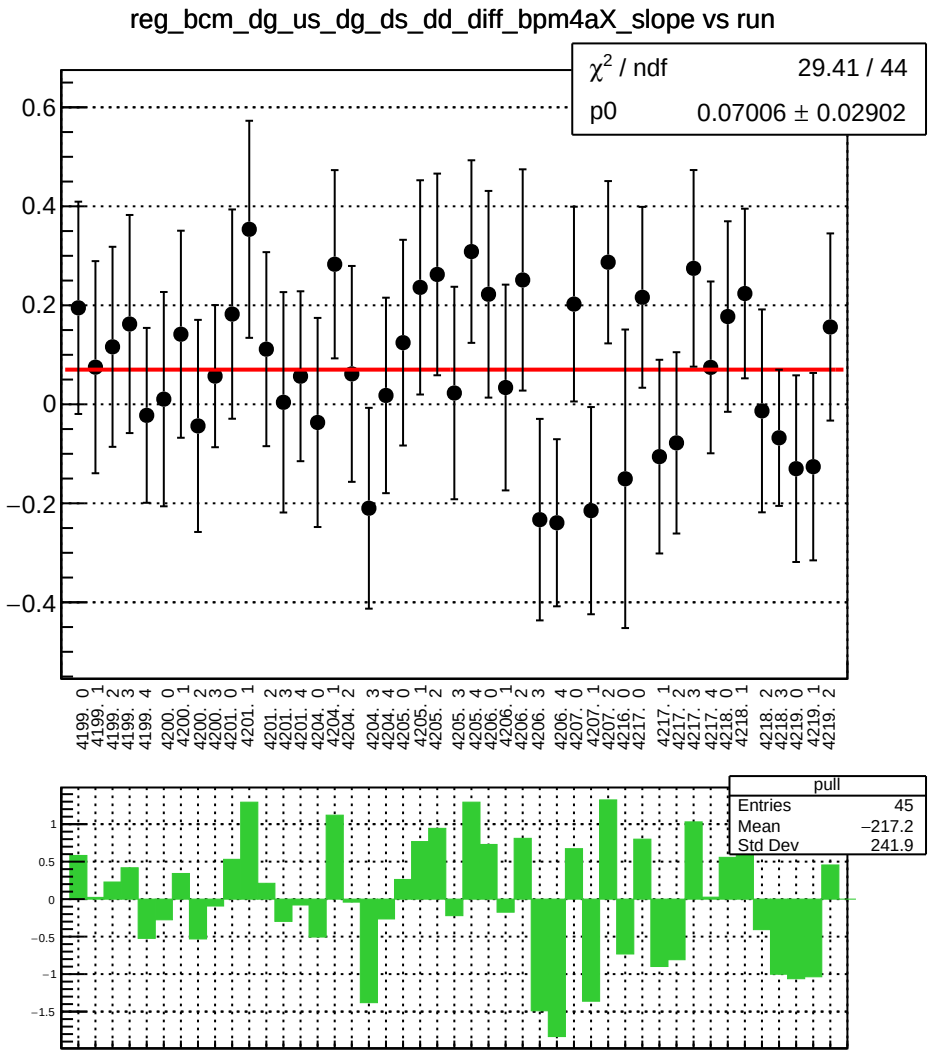

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.92 / 44
p0 −0.02021 ± 0.01593
pull
Entries 45
Mean 12.95
Std Dev 29.22

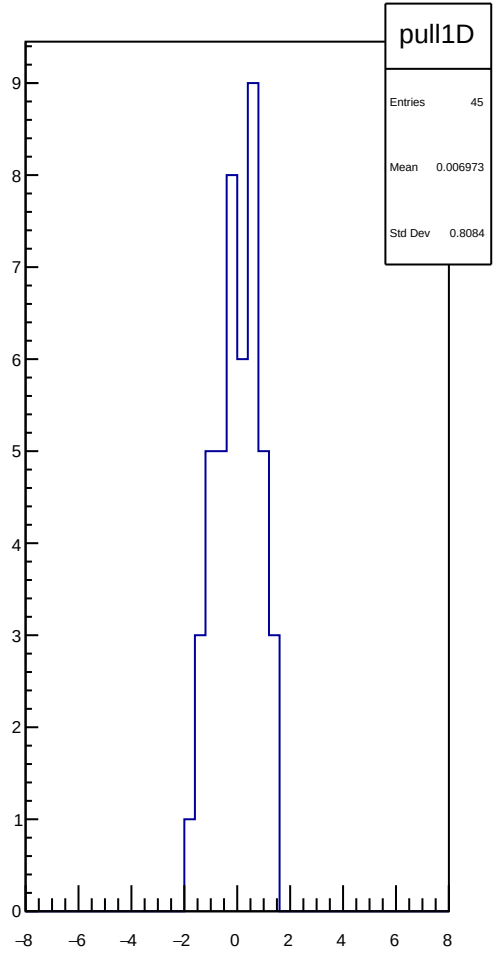

pull1D
Entries 45
Mean 0.04131
Std Dev 1.073

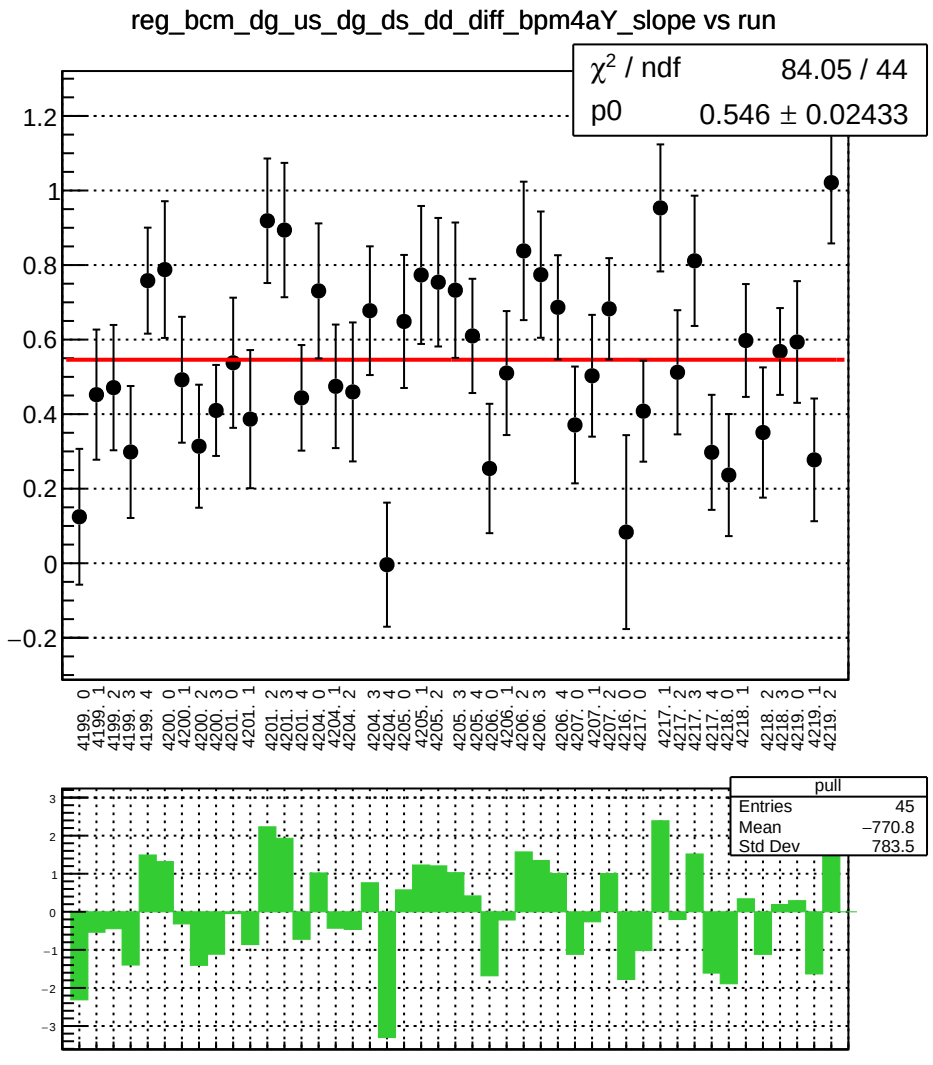

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.94 / 44
p0 0.01728 ± 0.003432
0.3
0.2
0.1
0
−0.1
−0.2
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −59.25
Std Dev 78.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02093
Std Dev 0.9301
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

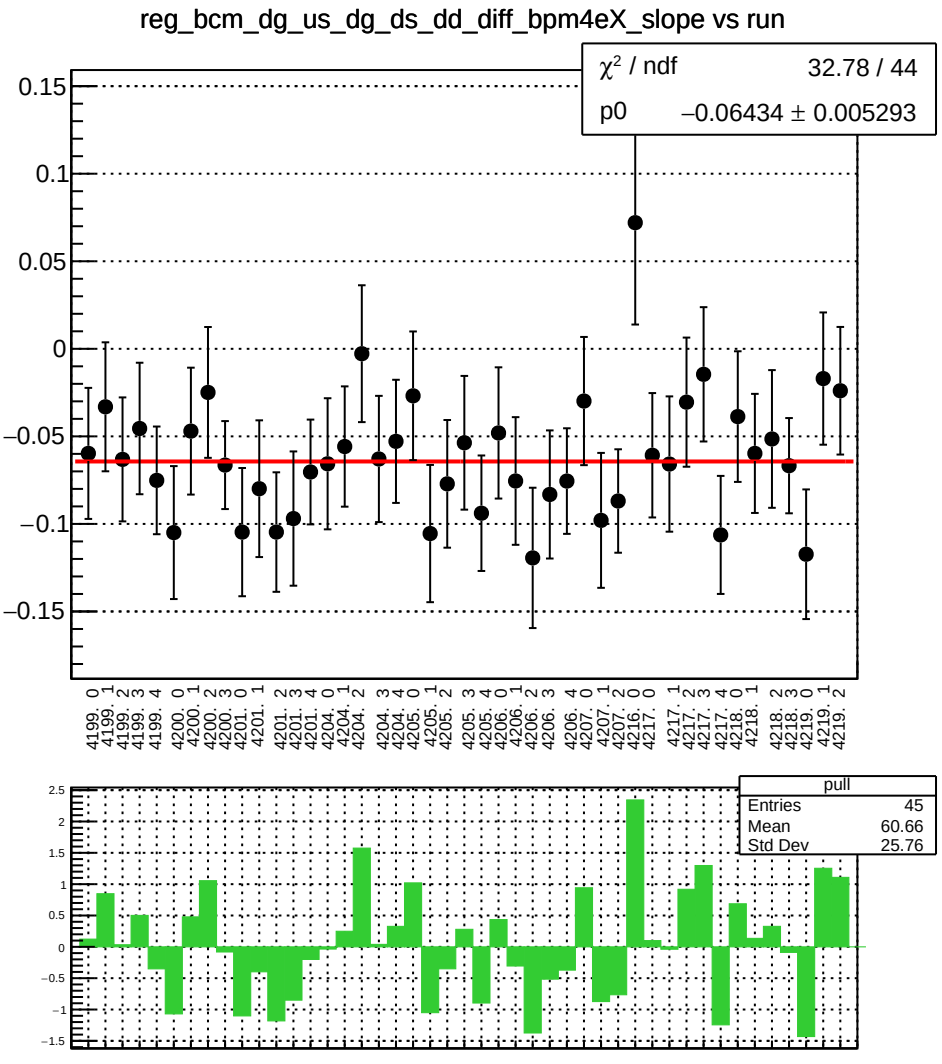

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.93 / 44
p0 0.02125 ± 0.02662
pull
Entries 45
Mean 22.89
Std Dev 24.6
pull1D
Entries 45
Mean −0.06877
Std Dev 1.062

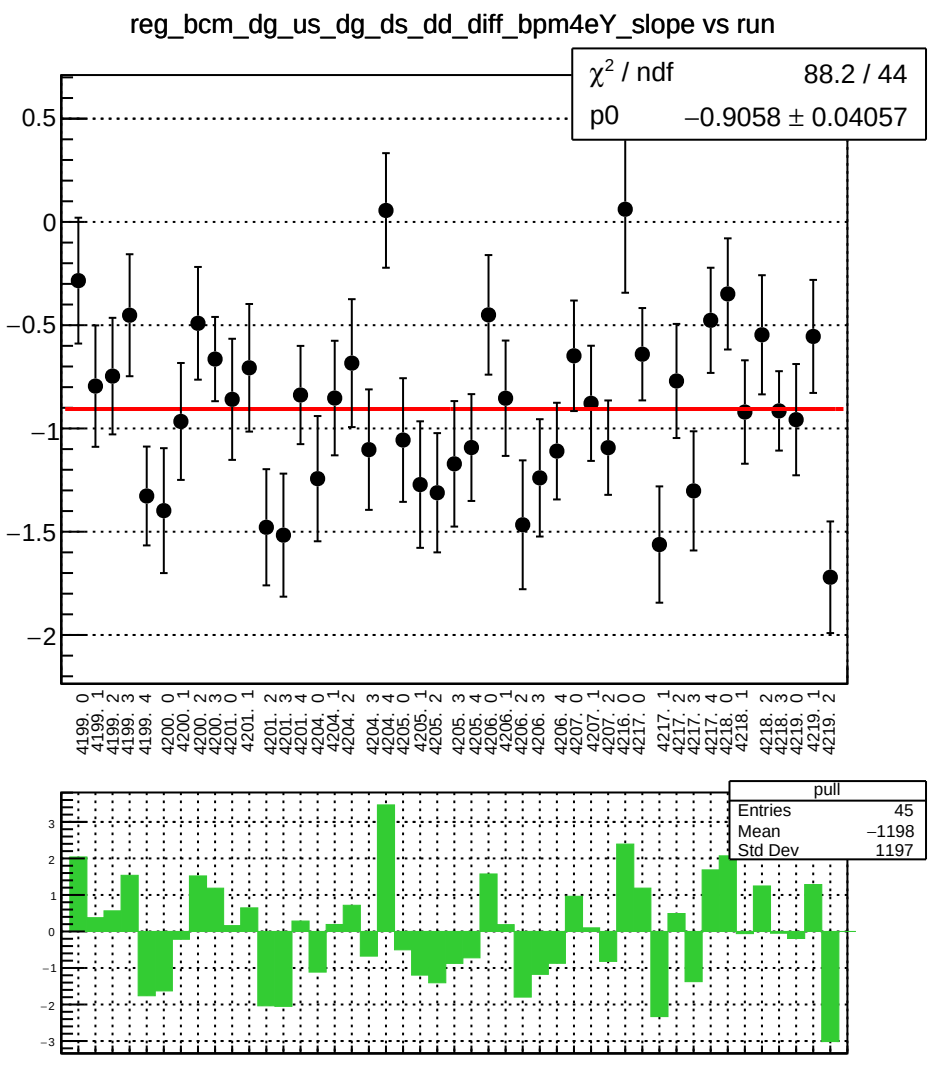

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 48.36 / 44
p0 −0.006528 ± 0.004796
pull
Entries 45
Mean 95.4
Std Dev 49.72
pull1D
Entries 45
Mean 0.008832
Std Dev 1.037

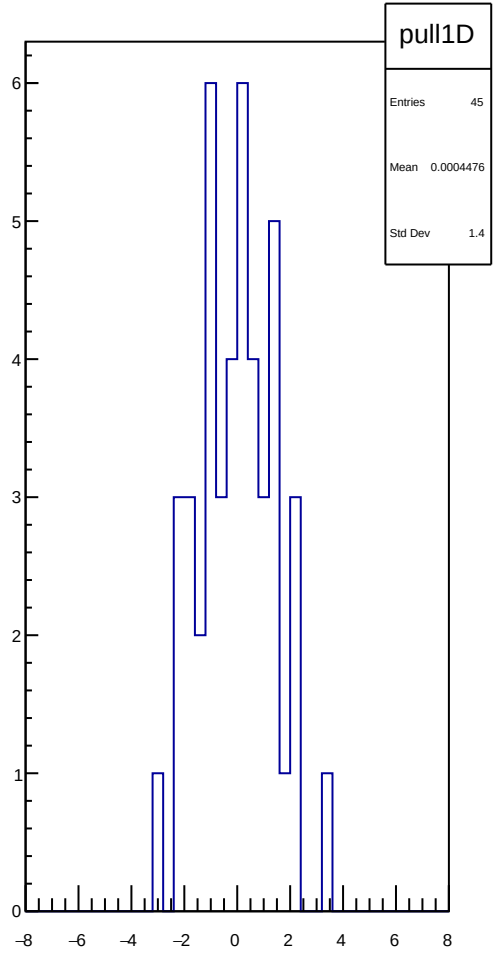

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.41 / 44
p0 0.07006 ± 0.02902
pull
Entries 45
Mean −217.2
Std Dev 241.9

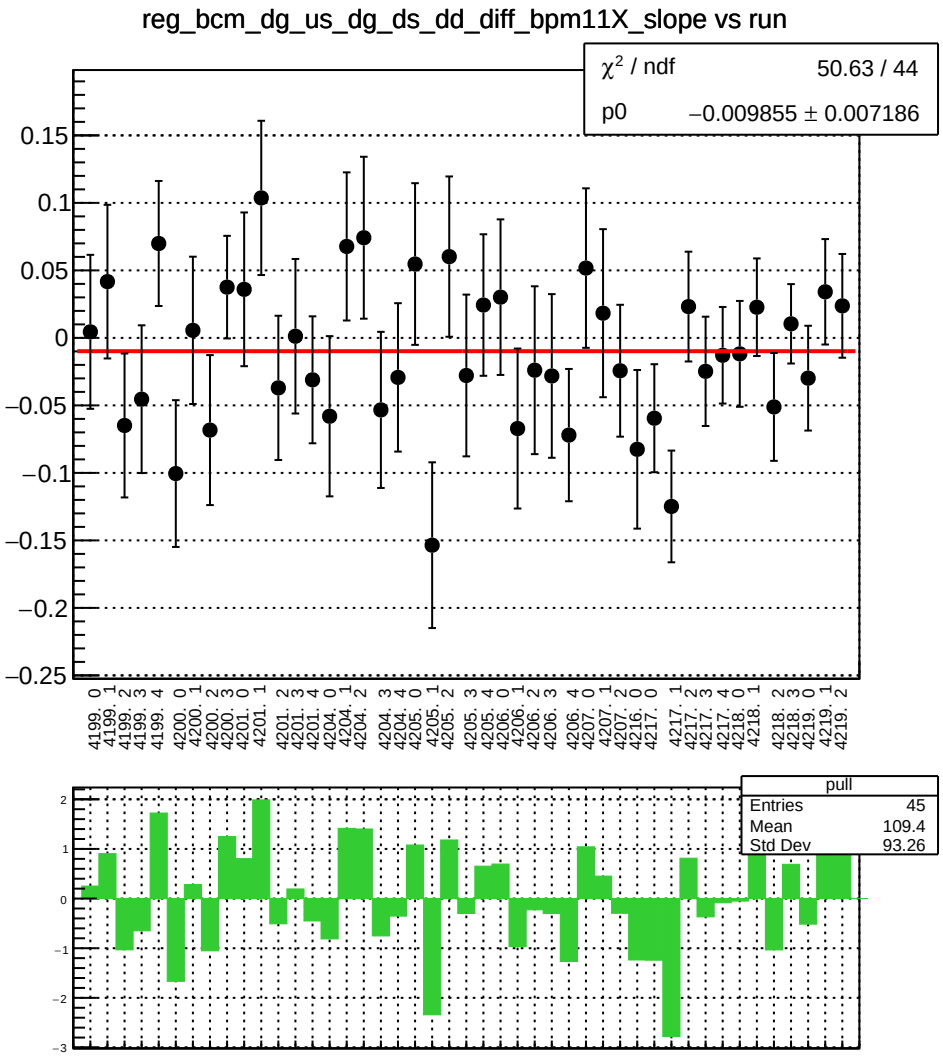

pull1D
Entries 45
Mean 0.006973
Std Dev 0.8084

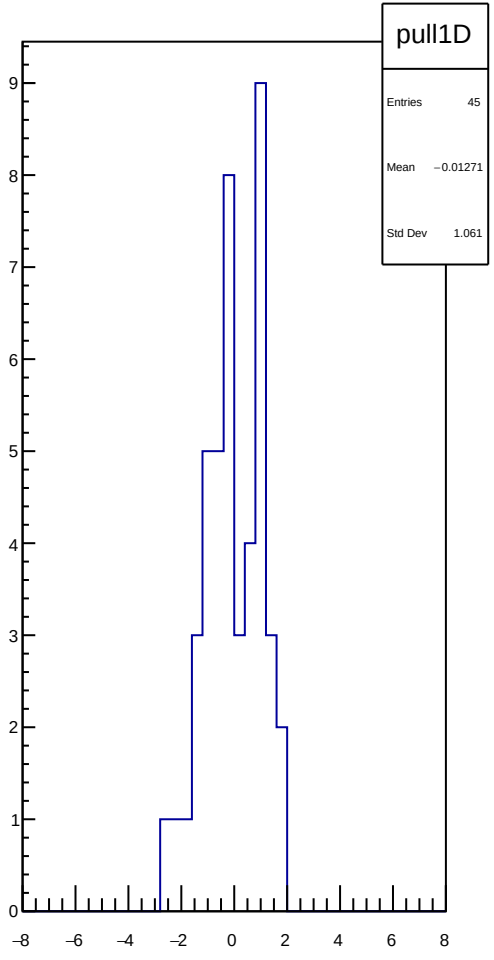

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.05 / 44
p0 0.546 ± 0.02433
pull
Entries 45
Mean −770.8
Std Dev 783.5
pull1D
Entries 45
Mean −0.001927
Std Dev 1.367

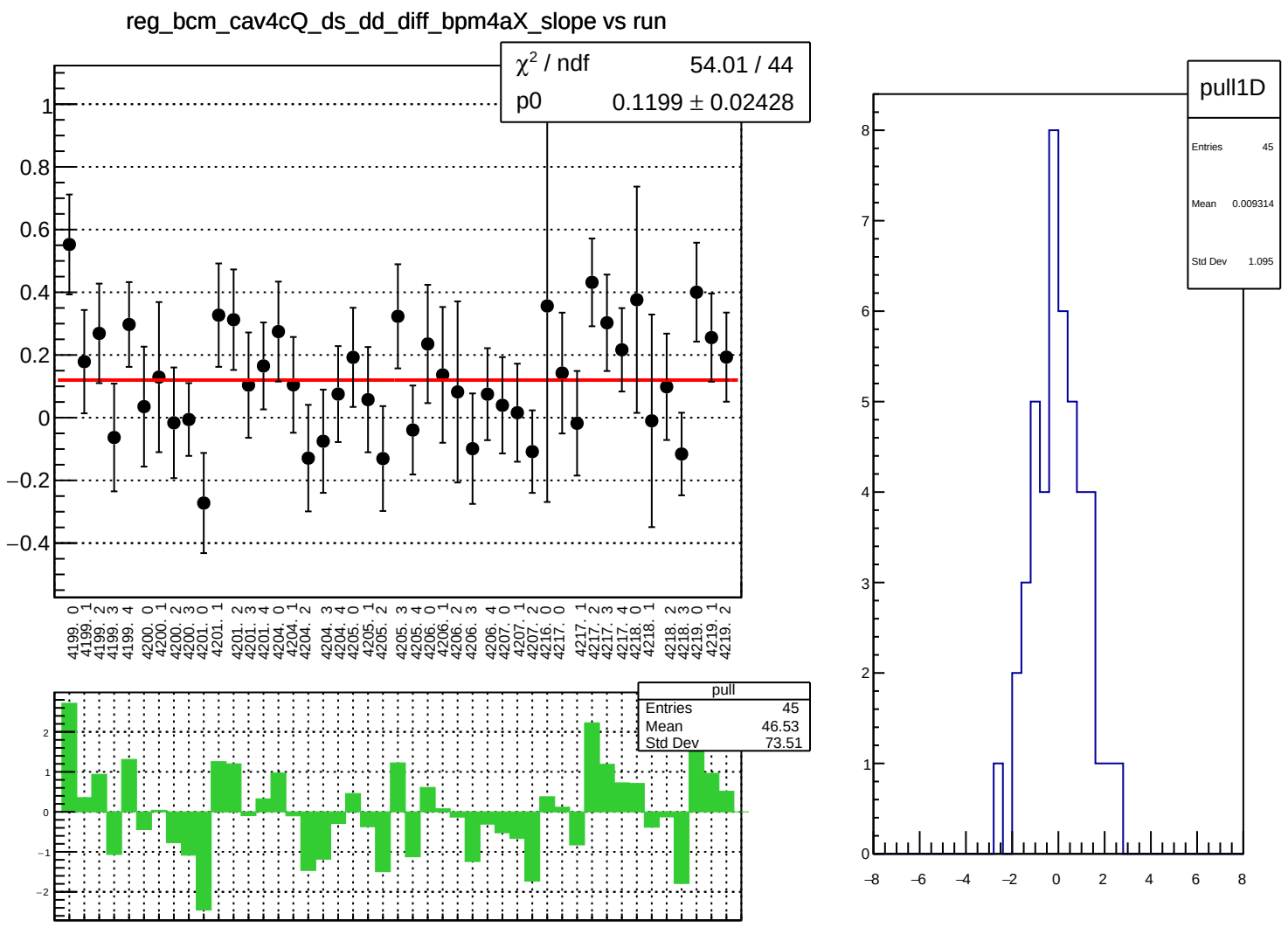

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.78 / 44
p0 −0.06434 ± 0.005293
pull
Entries 45
Mean 60.66
Std Dev 25.76
pull1D
Entries 45
Mean 0.03345
Std Dev 0.8529

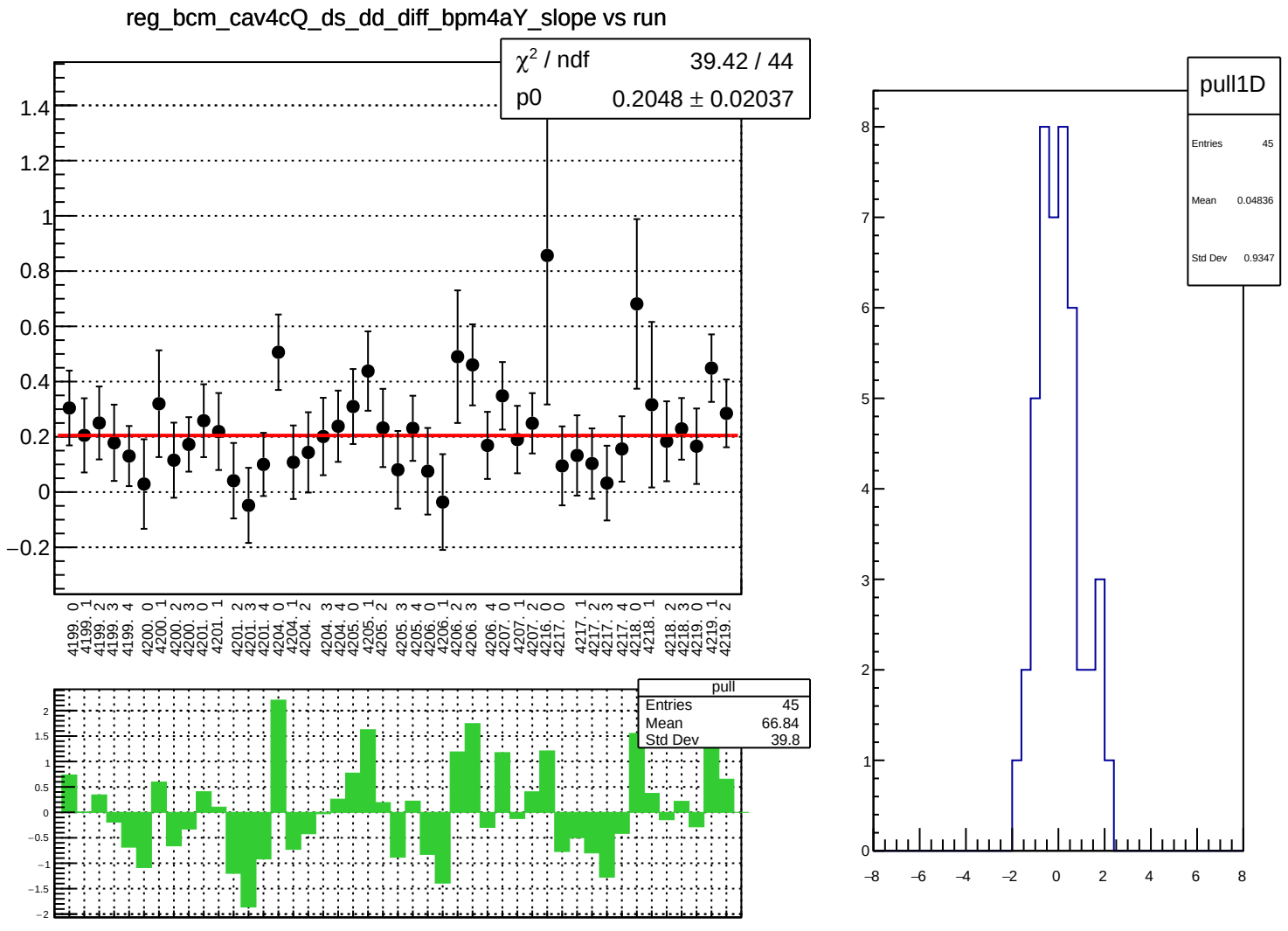

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.2 / 44
p0 −0.9058 ± 0.04057
0.5
0
−0.5
−1
−1.5
−2
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −1198
Std Dev 1197
3
2
1
0
−1
−2
−3

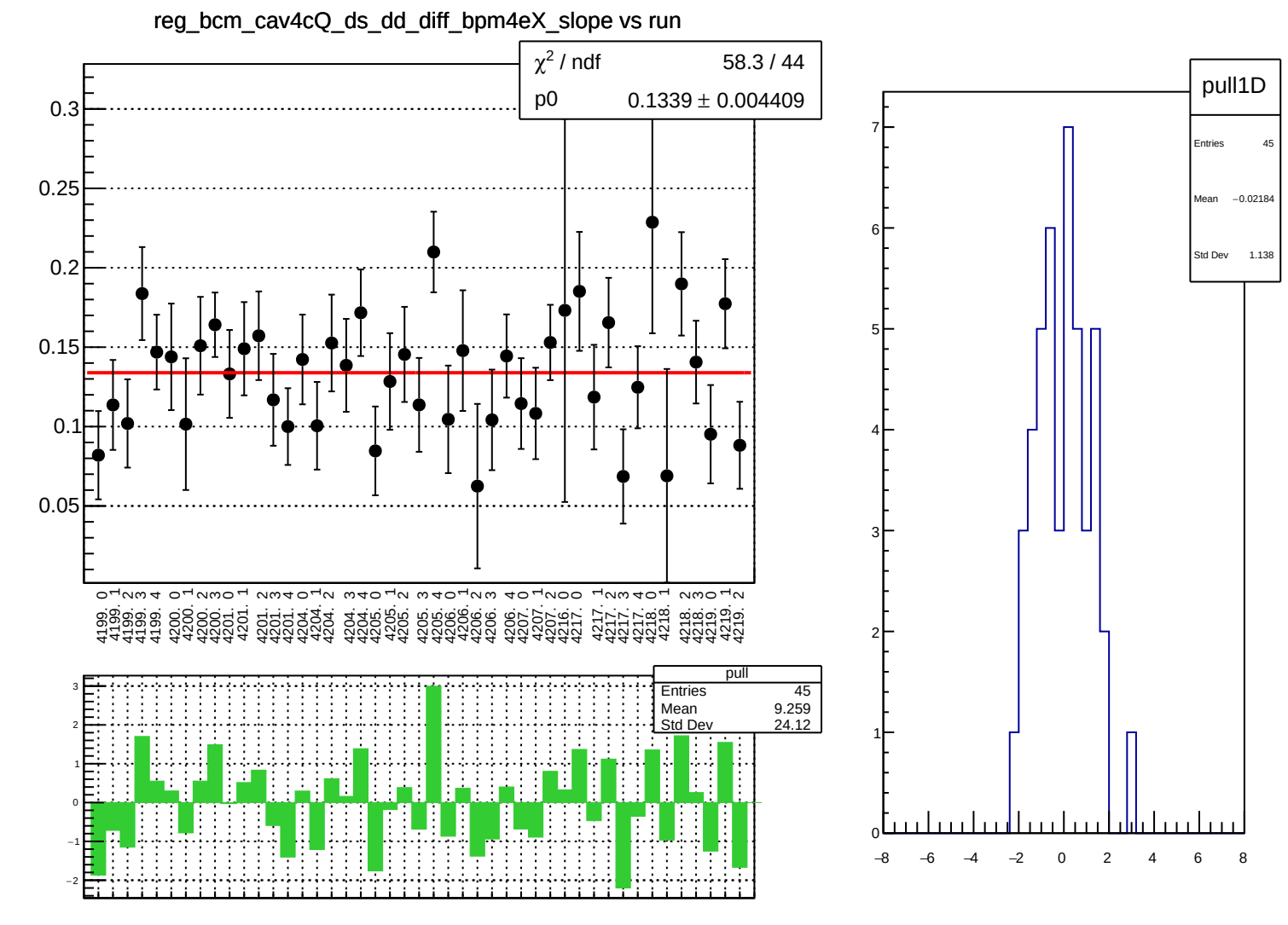

pull1D
Entries 45
Mean 0.0004476
Std Dev 1.4
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

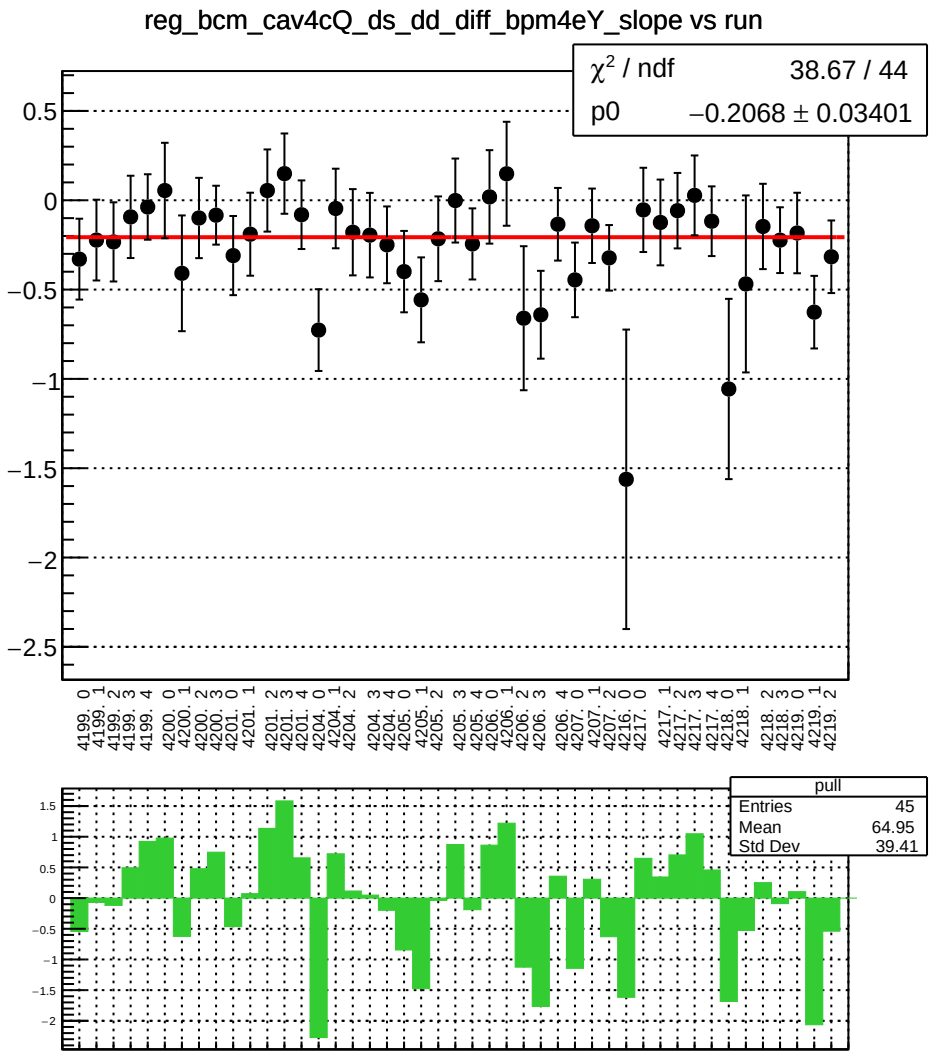

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 50.63 / 44
p0 −0.009855 ± 0.007186
pull
Entries 45
Mean 109.4
Std Dev 93.26

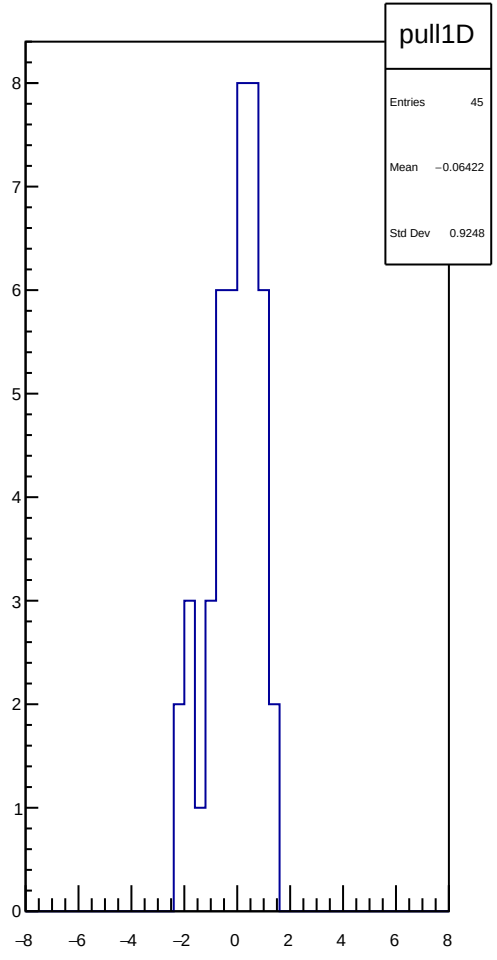

pull1D
Entries 45
Mean −0.01271
Std Dev 1.061

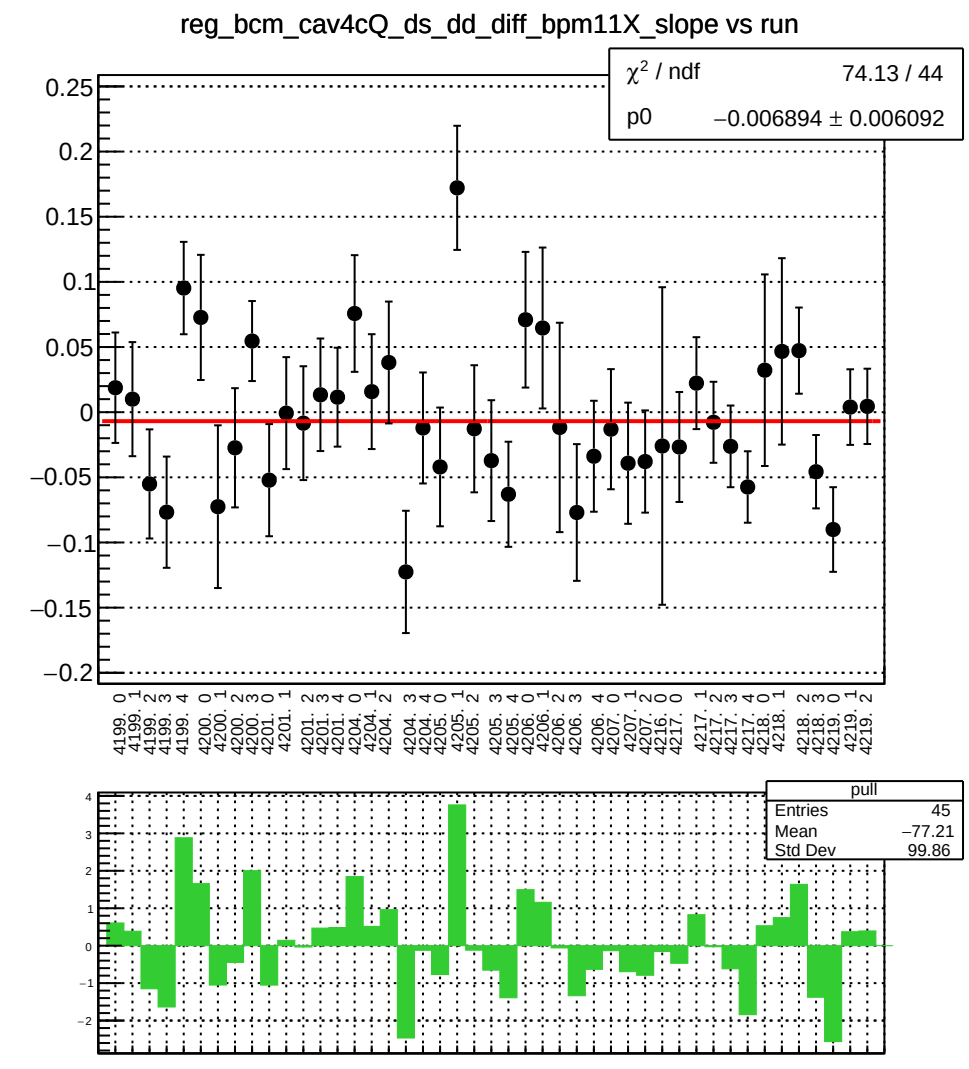

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 54.01 / 44
p0 0.1199 ± 0.02428
pull
Entries 45
Mean 46.53
Std Dev 73.51
pull1D
Entries 45
Mean 0.009314
Std Dev 1.095

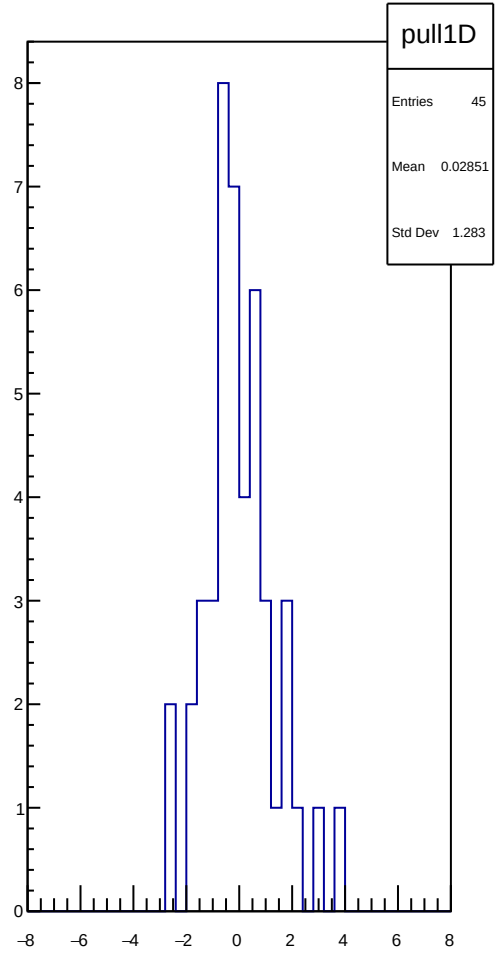

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.42 / 44
p0 0.2048 ± 0.02037
pull
Entries 45
Mean 66.84
Std Dev 39.8
pull1D
Entries 45
Mean 0.04836
Std Dev 0.9347

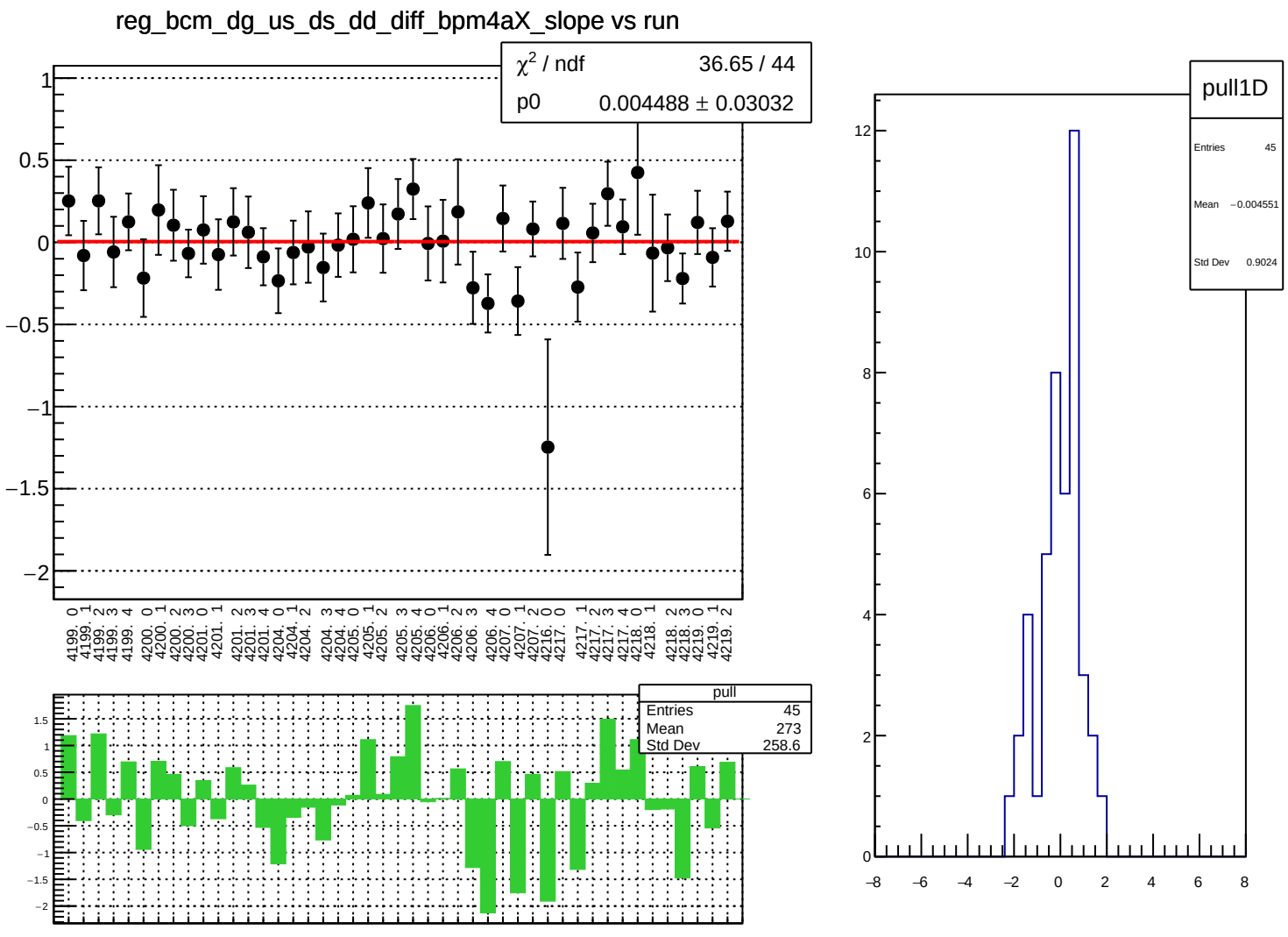

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.3 / 44
p0 0.1339 ± 0.004409
0.3
0.25
0.2
0.15
0.1
0.05
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean 9.259
Std Dev 24.12
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02184
Std Dev 1.138
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

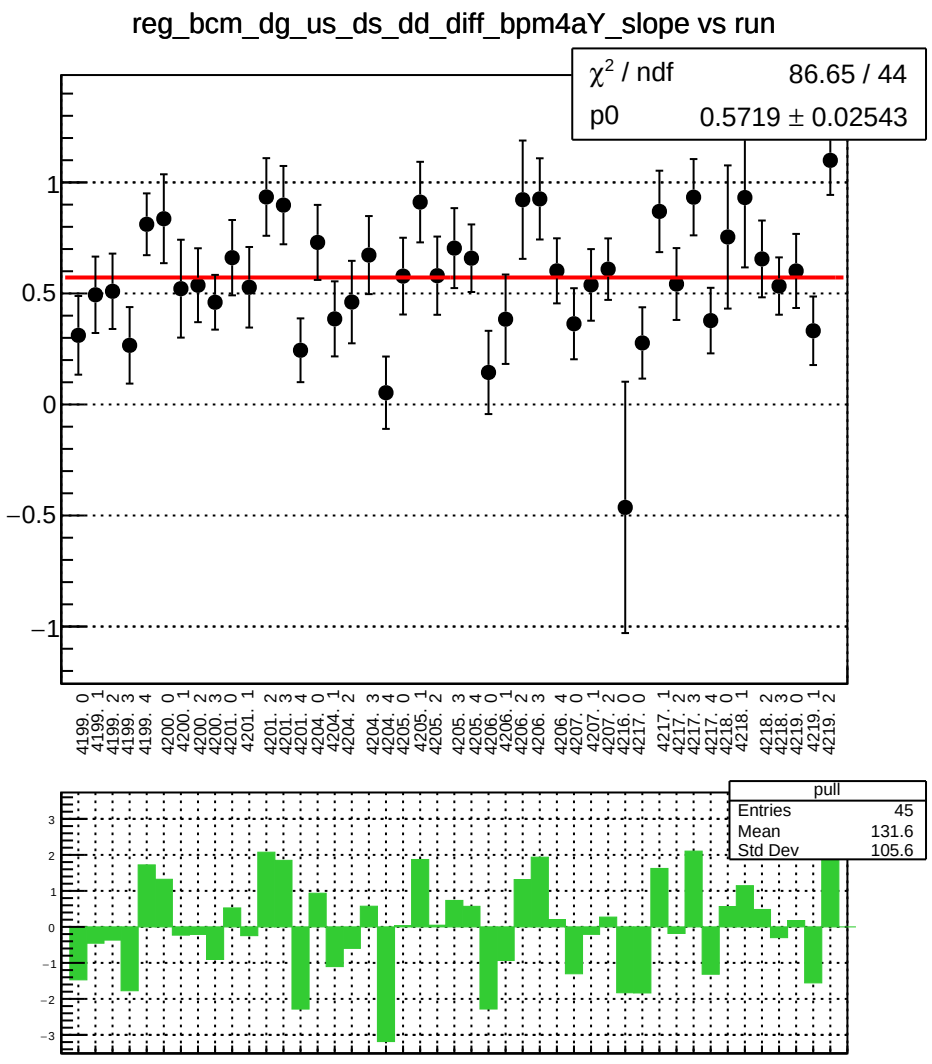

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.67 / 44
p0 −0.2068 ± 0.03401
pull
Entries 45
Mean 64.95
Std Dev 39.41

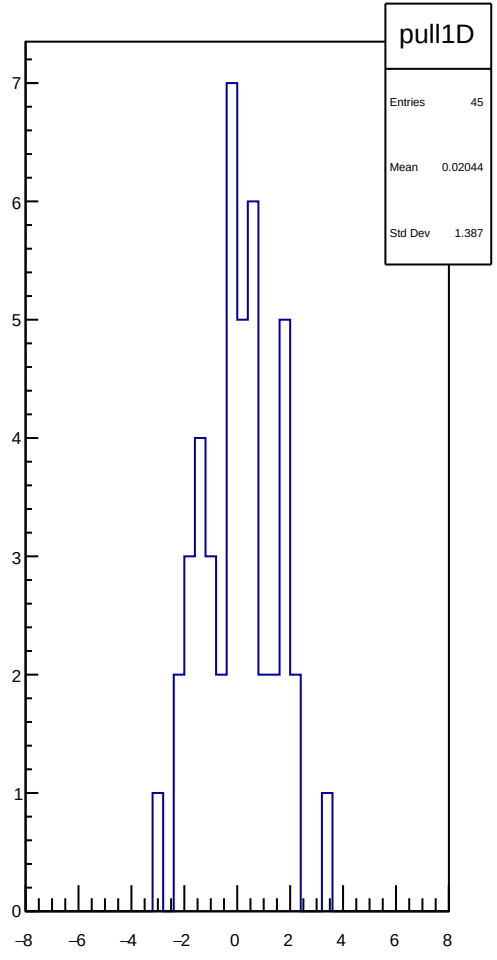

pull1D
Entries 45
Mean −0.06422
Std Dev 0.9248

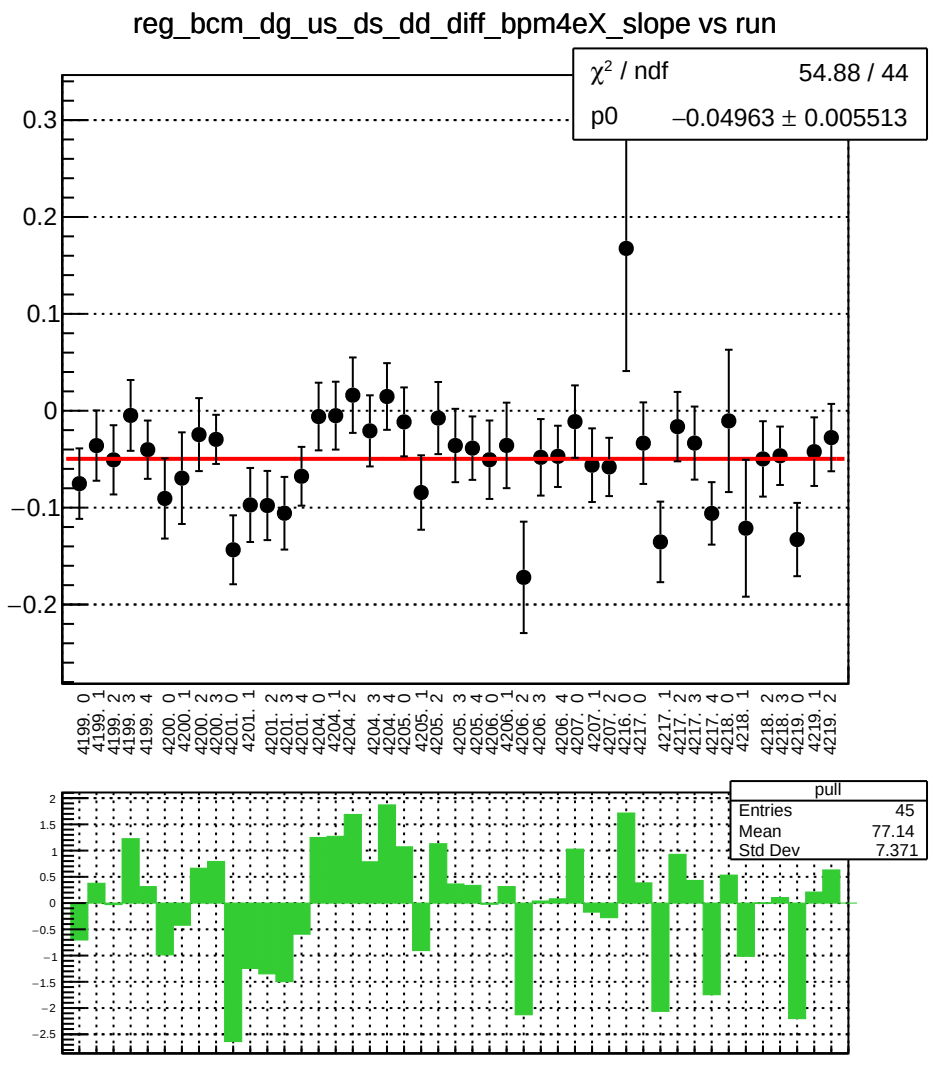

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 74.13 / 44
p0 −0.006894 ± 0.006092
pull
Entries 45
Mean −77.21
Std Dev 99.86

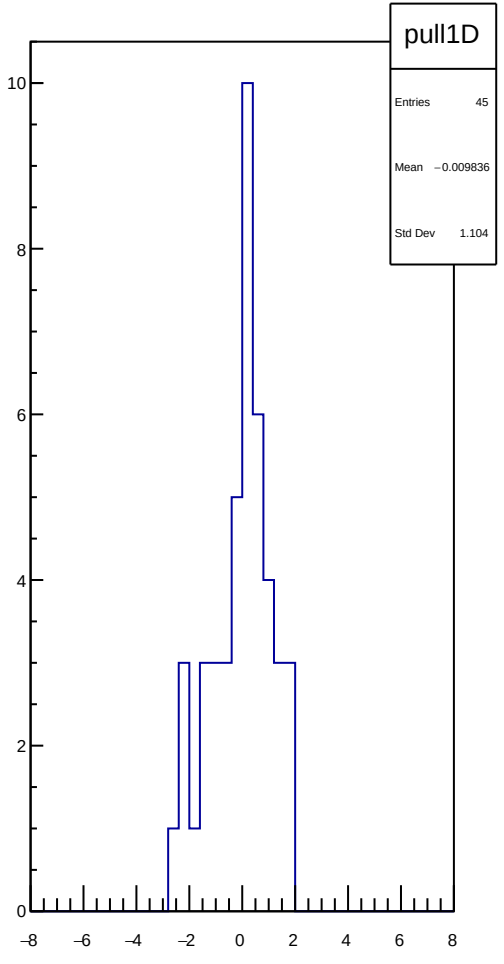

pull1D
Entries 45
Mean 0.02851
Std Dev 1.283

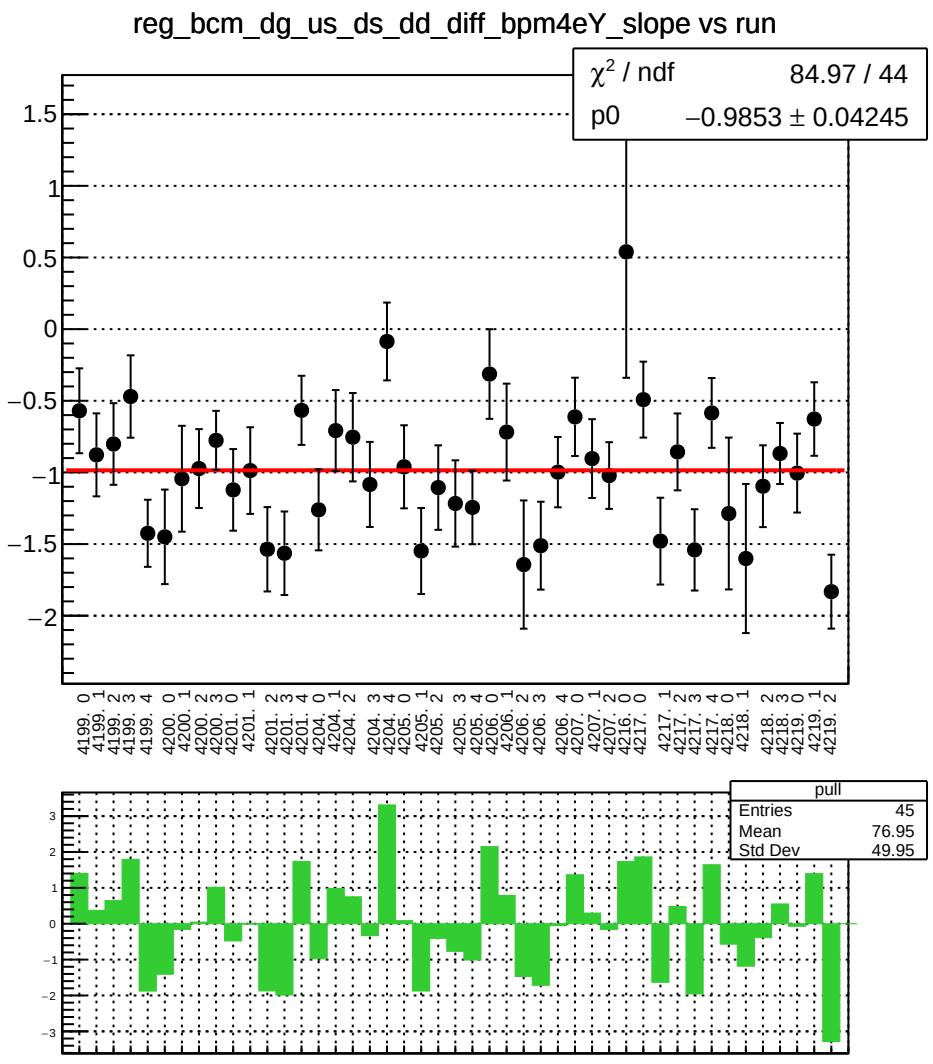

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.65 / 44
p0 0.004488 ± 0.03032
pull
Entries 45
Mean 273
Std Dev 258.6
pull1D
Entries 45
Mean −0.004551
Std Dev 0.9024

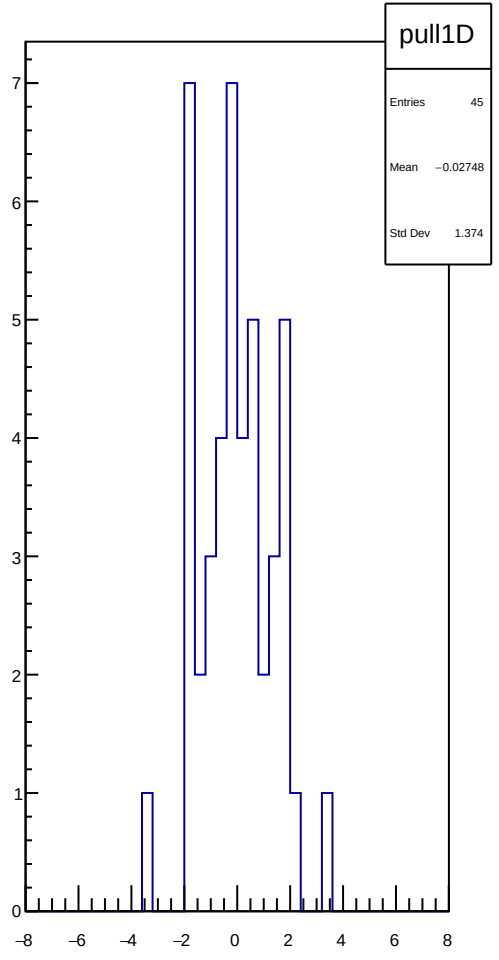

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.65 / 44
p0 0.5719 ± 0.02543
pull
Entries 45
Mean 131.6
Std Dev 105.6

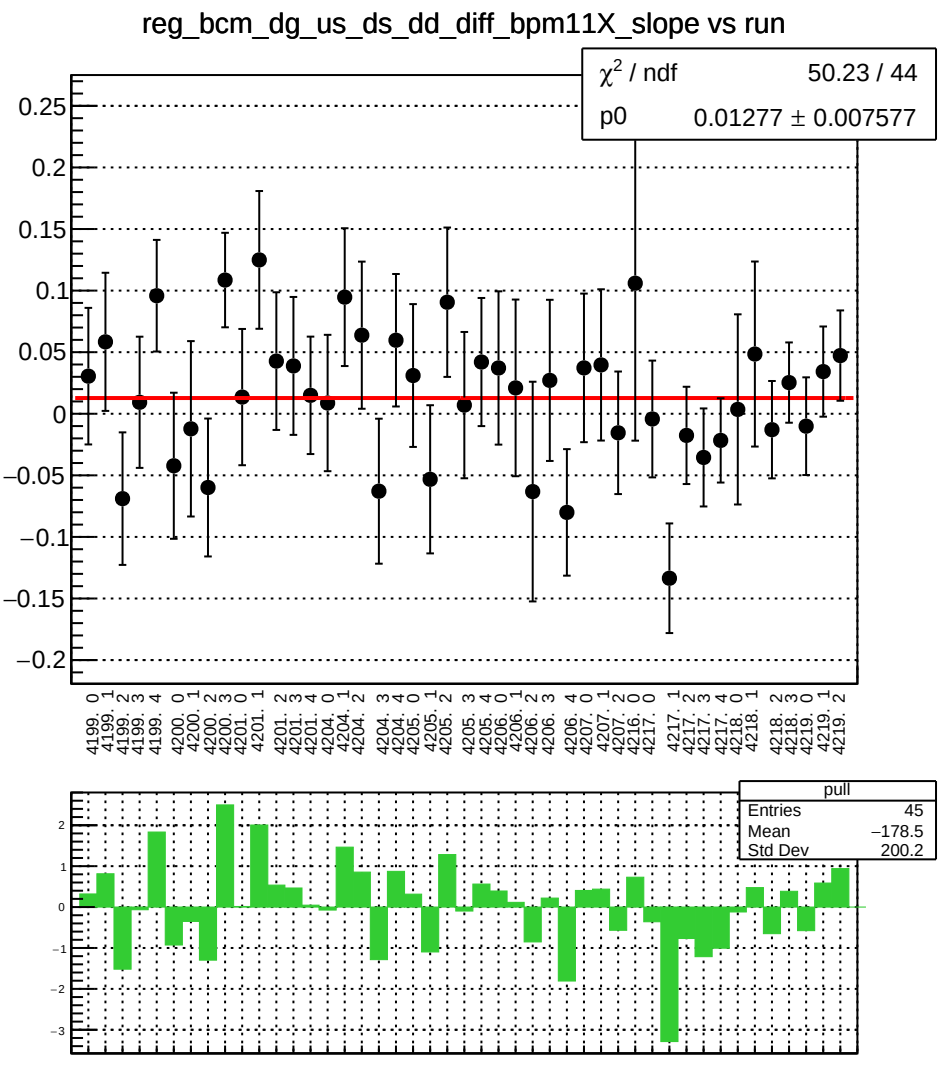

pull1D
Entries 45
Mean 0.02044
Std Dev 1.387

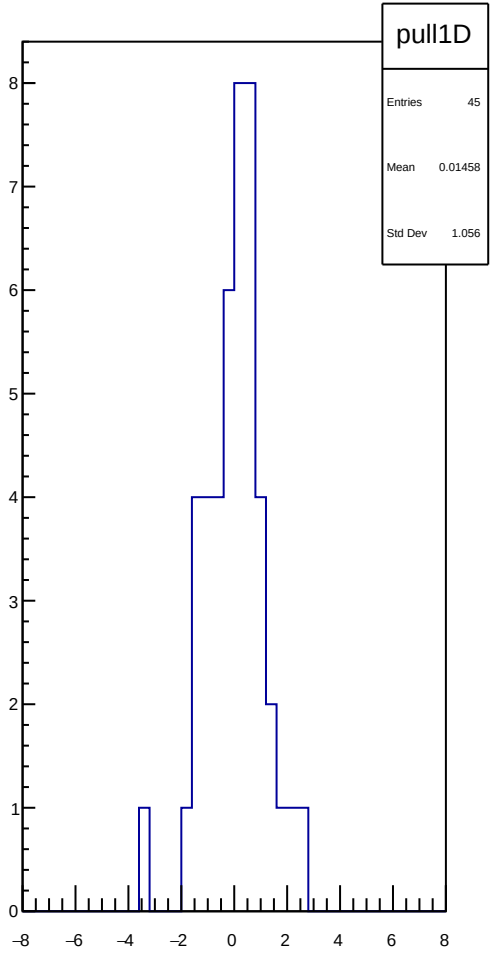

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.88 / 44
p0 −0.04963 ± 0.005513
pull
Entries 45
Mean 77.14
Std Dev 7.371

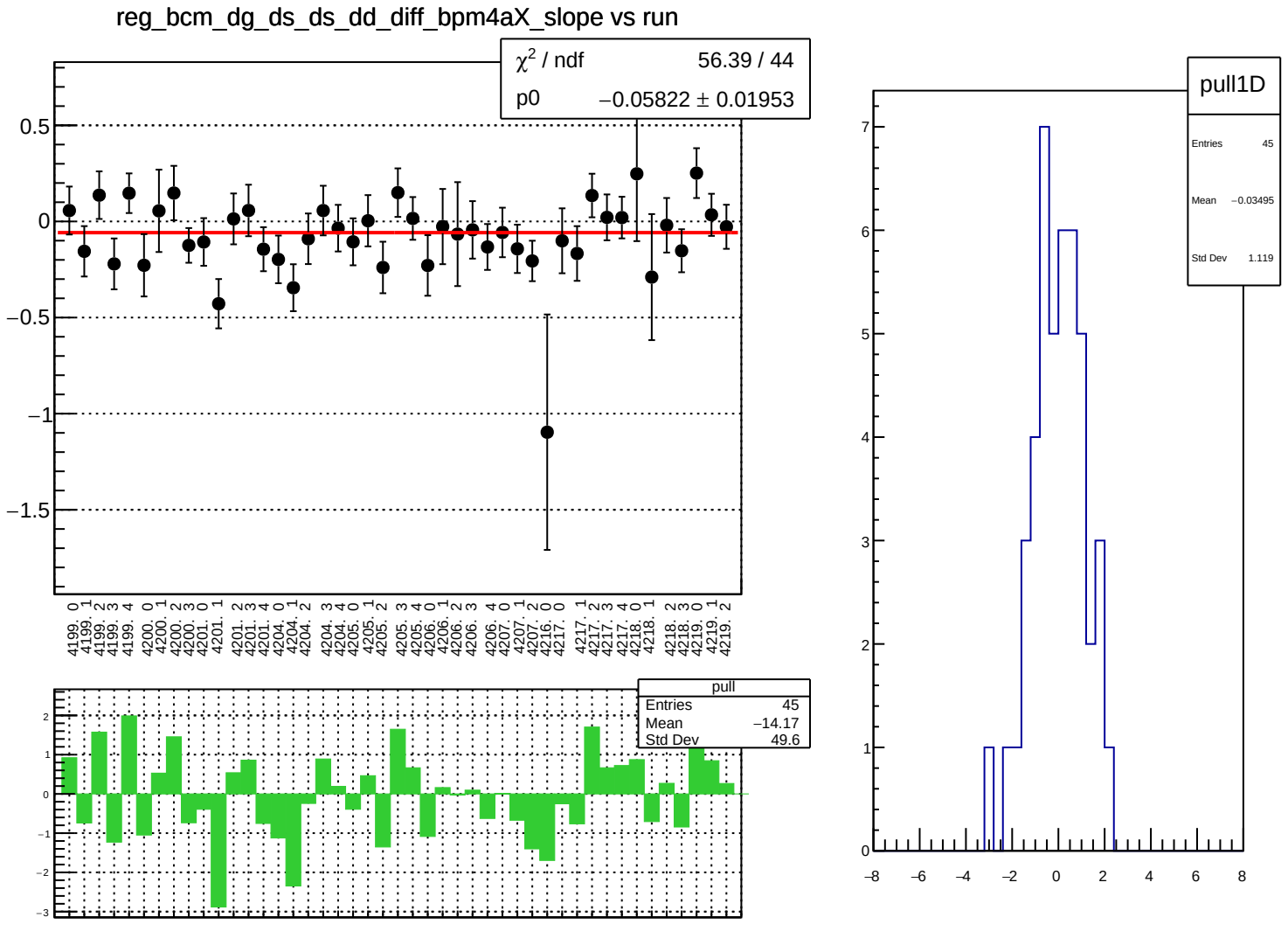

pull1D
Entries 45
Mean −0.009836
Std Dev 1.104

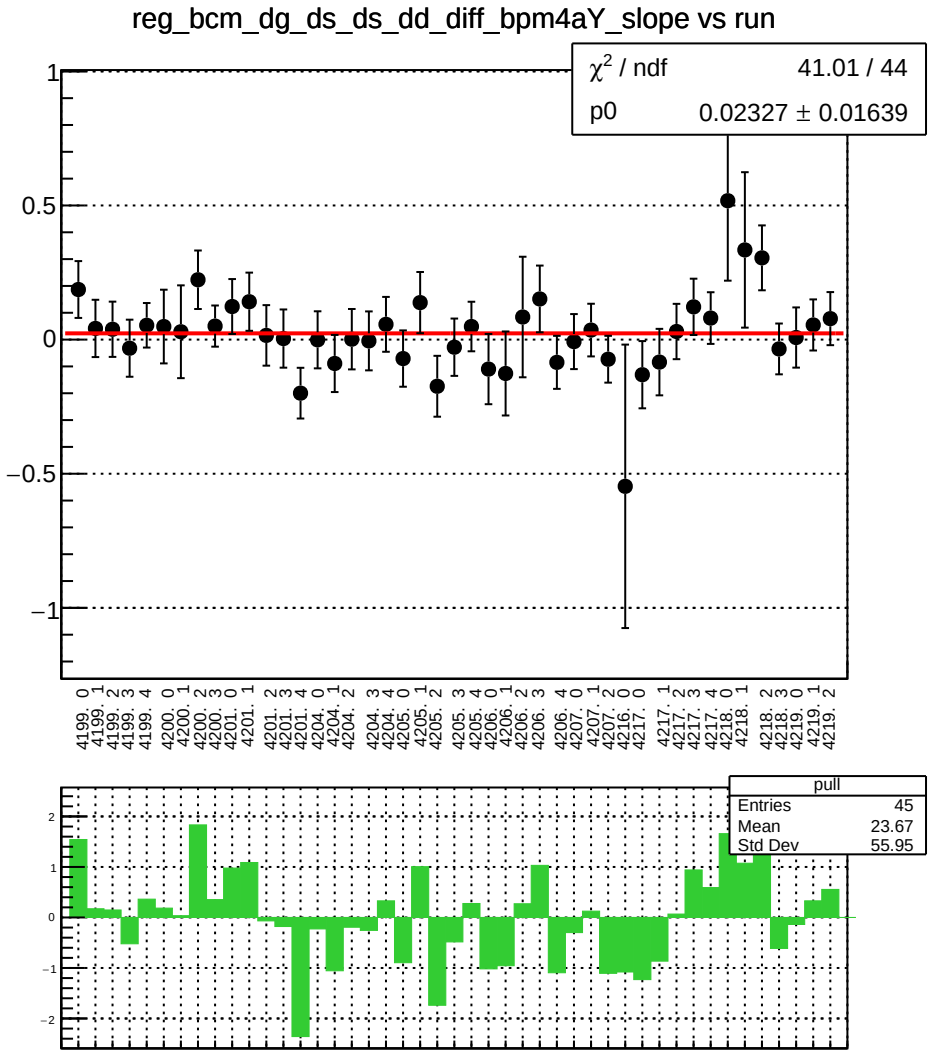

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.97 / 44
p0 −0.9853 ± 0.04245
pull
Entries 45
Mean 76.95
Std Dev 49.95

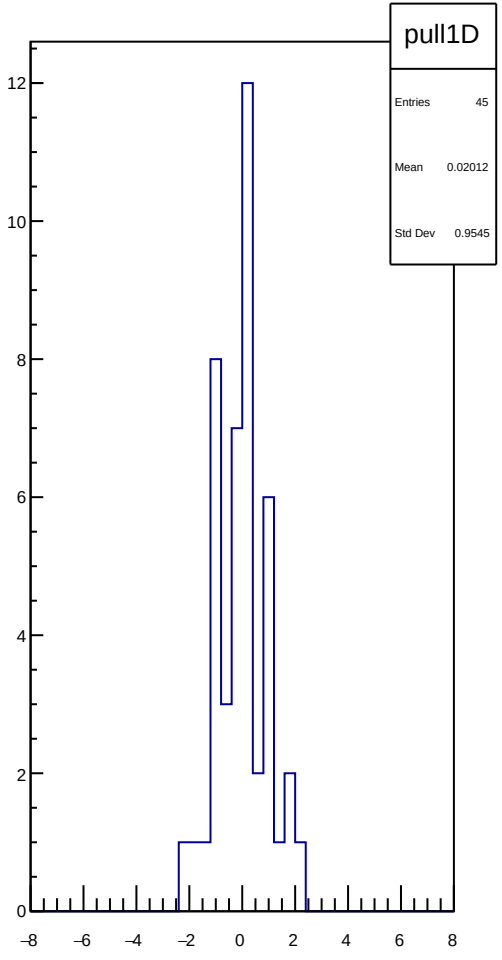

pull1D
Entries 45
Mean −0.02748
Std Dev 1.374

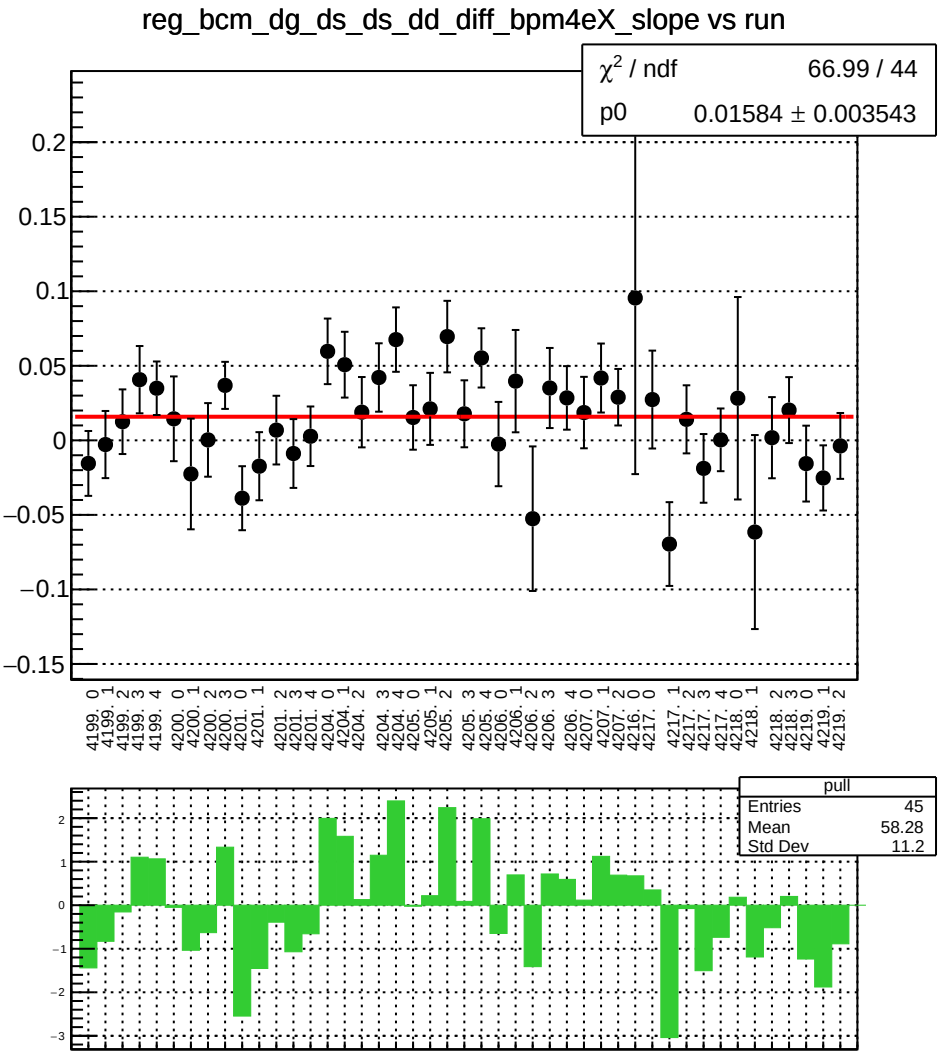

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 50.23 / 44
p0 0.01277 ± 0.007577
pull
Entries 45
Mean −178.5
Std Dev 200.2

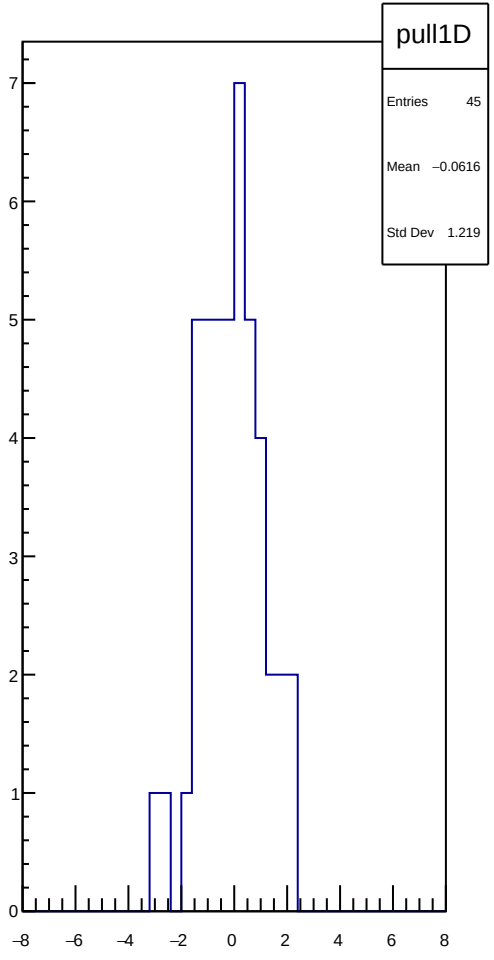

pull1D
Entries 45
Mean 0.01458
Std Dev 1.056

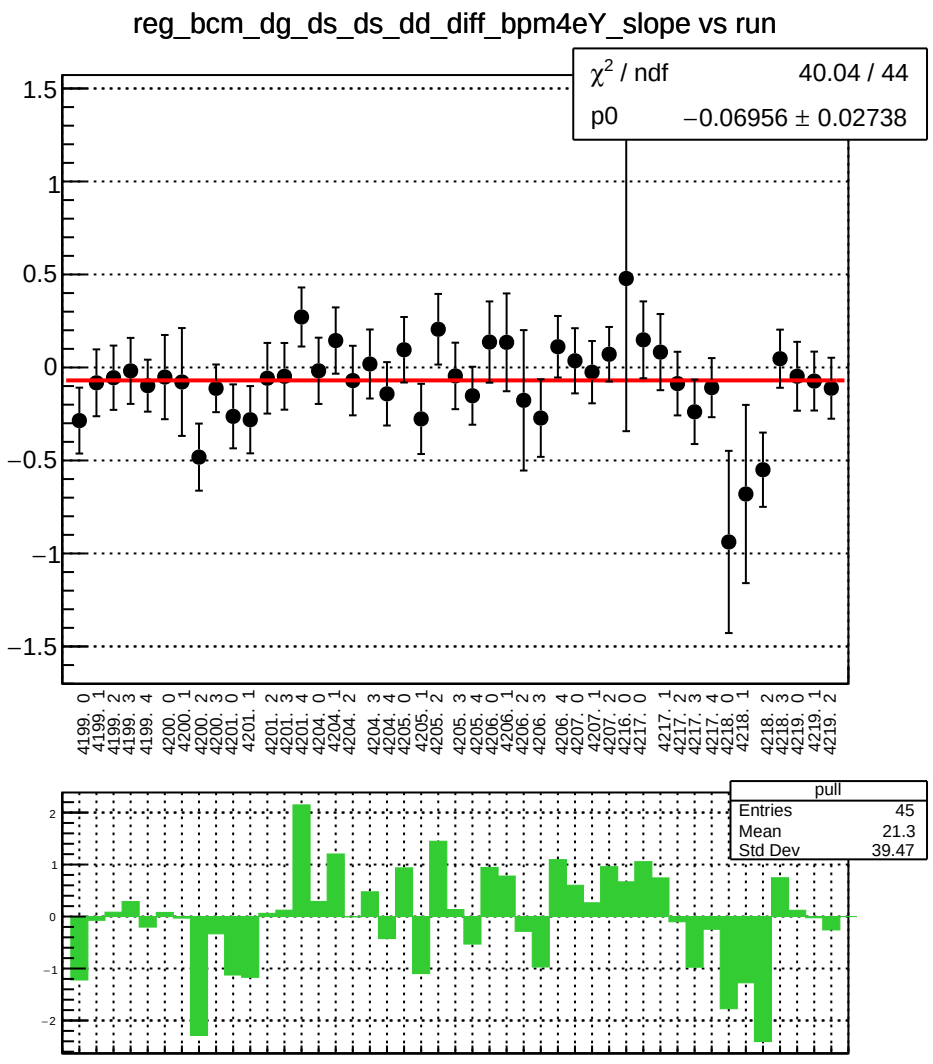

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.39 / 44
p0 −0.05822 ± 0.01953
0.5
0
−0.5
−1
−1.5
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −14.17
Std Dev 49.6
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.03495
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

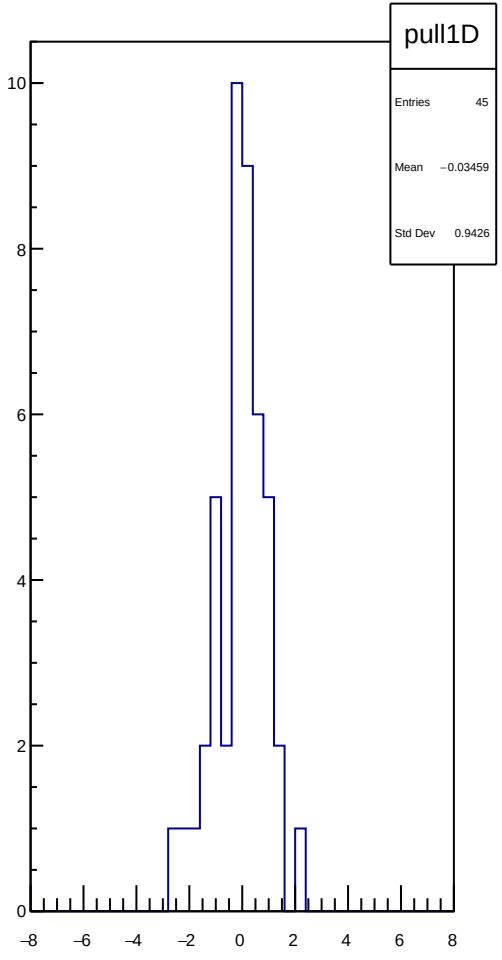

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.01 / 44
p0 0.02327 ± 0.01639
pull
Entries 45
Mean 23.67
Std Dev 55.95

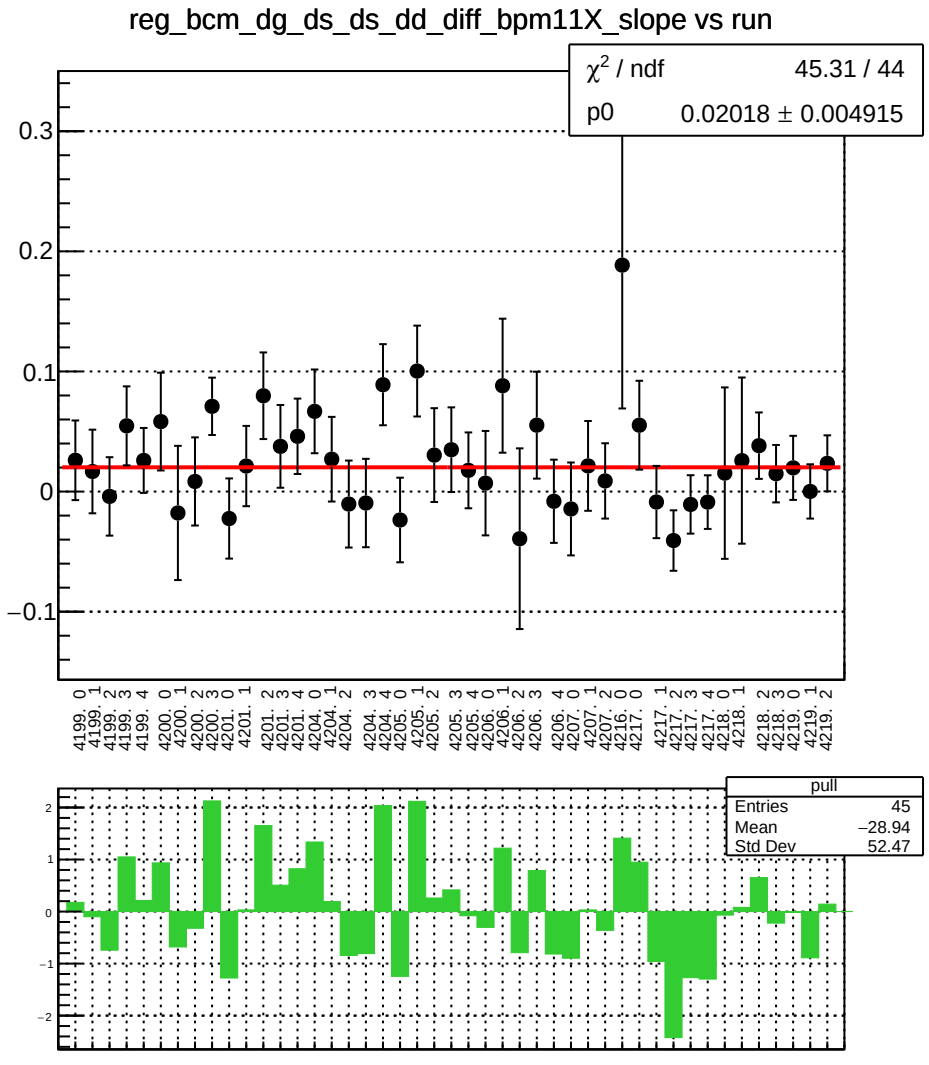

pull1D
Entries 45
Mean 0.02012
Std Dev 0.9545

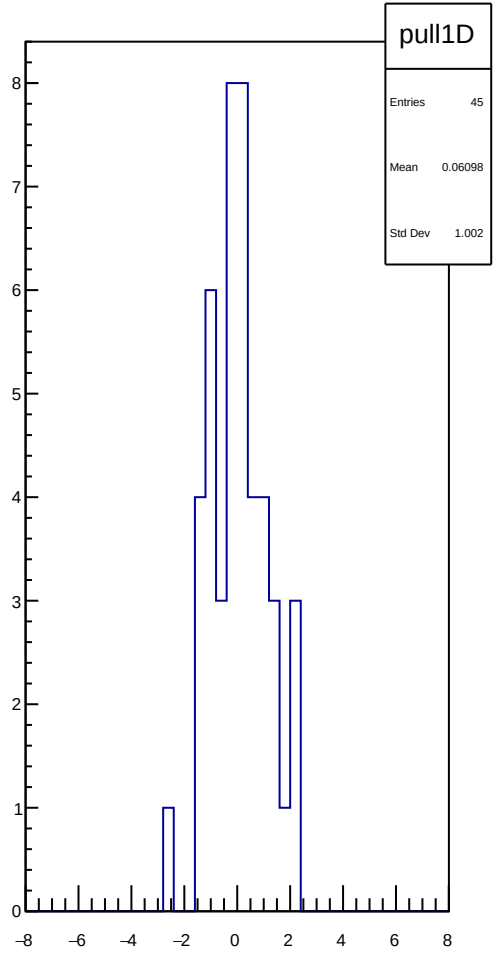

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.99 / 44
p0 0.01584 ± 0.003543
pull
Entries 45
Mean 58.28
Std Dev 11.2


pull1D
Entries 45
Mean −0.0616
Std Dev 1.219


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.04 / 44
p0 −0.06956 ± 0.02738
pull
Entries 45
Mean 21.3
Std Dev 39.47


pull1D
Entries 45
Mean −0.03459
Std Dev 0.9426


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 45.31 / 44
p0 0.02018 ± 0.004915
0.3
0.2
0.1
0
−0.1
4199. 0
4199. 1
4199. 2
4199. 3
4199. 4
4200. 0
4200. 1
4200. 2
4200. 3
4201. 0
4201. 1
4201. 2
4201. 3
4201. 4
4204. 0
4204. 1
4204. 2
4204. 3
4204. 4
4205. 0
4205. 1
4205. 2
4205. 3
4205. 4
4206. 0
4206. 1
4206. 2
4206. 3
4206. 4
4207. 0
4207. 1
4207. 2
4216. 0
4217. 0
4217. 1
4217. 2
4217. 3
4217. 4
4218. 0
4218. 1
4218. 2
4218. 3
4219. 0
4219. 1
4219. 2
pull
Entries 45
Mean −28.94
Std Dev 52.47
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.06098
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8