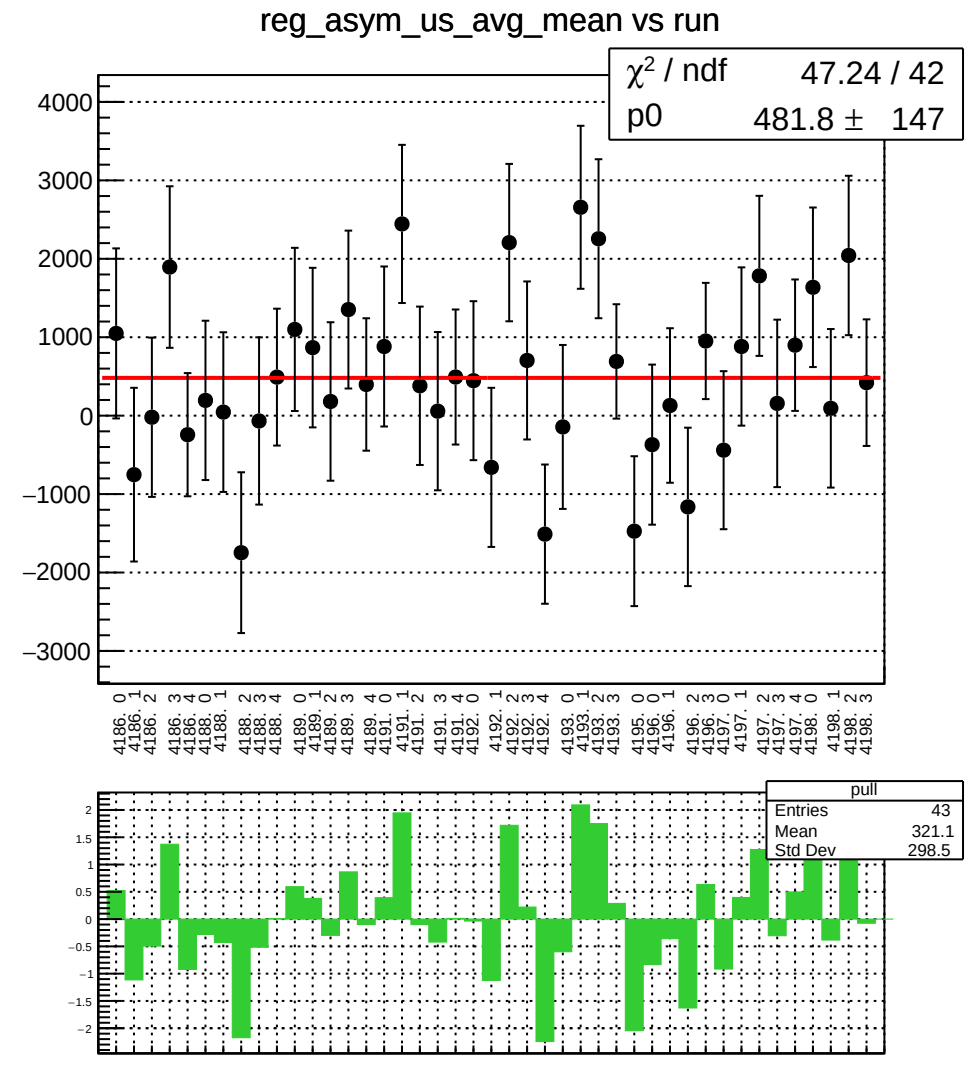
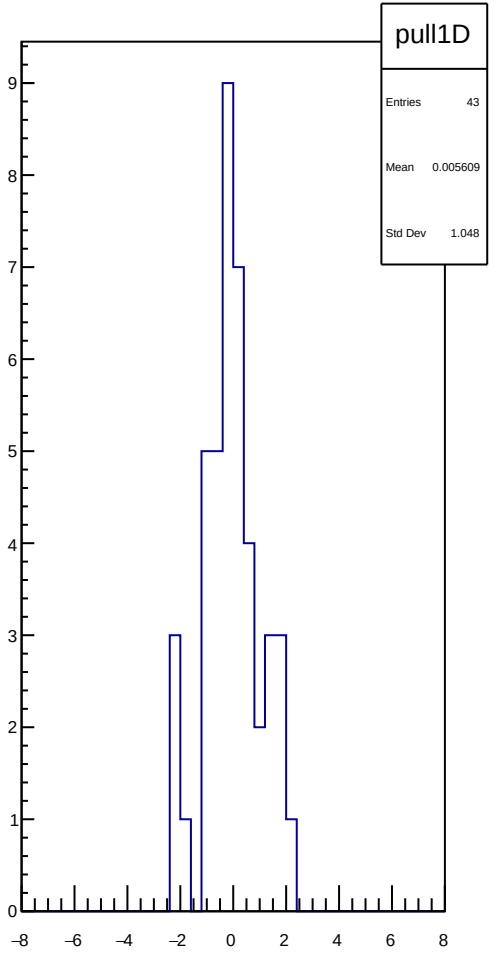
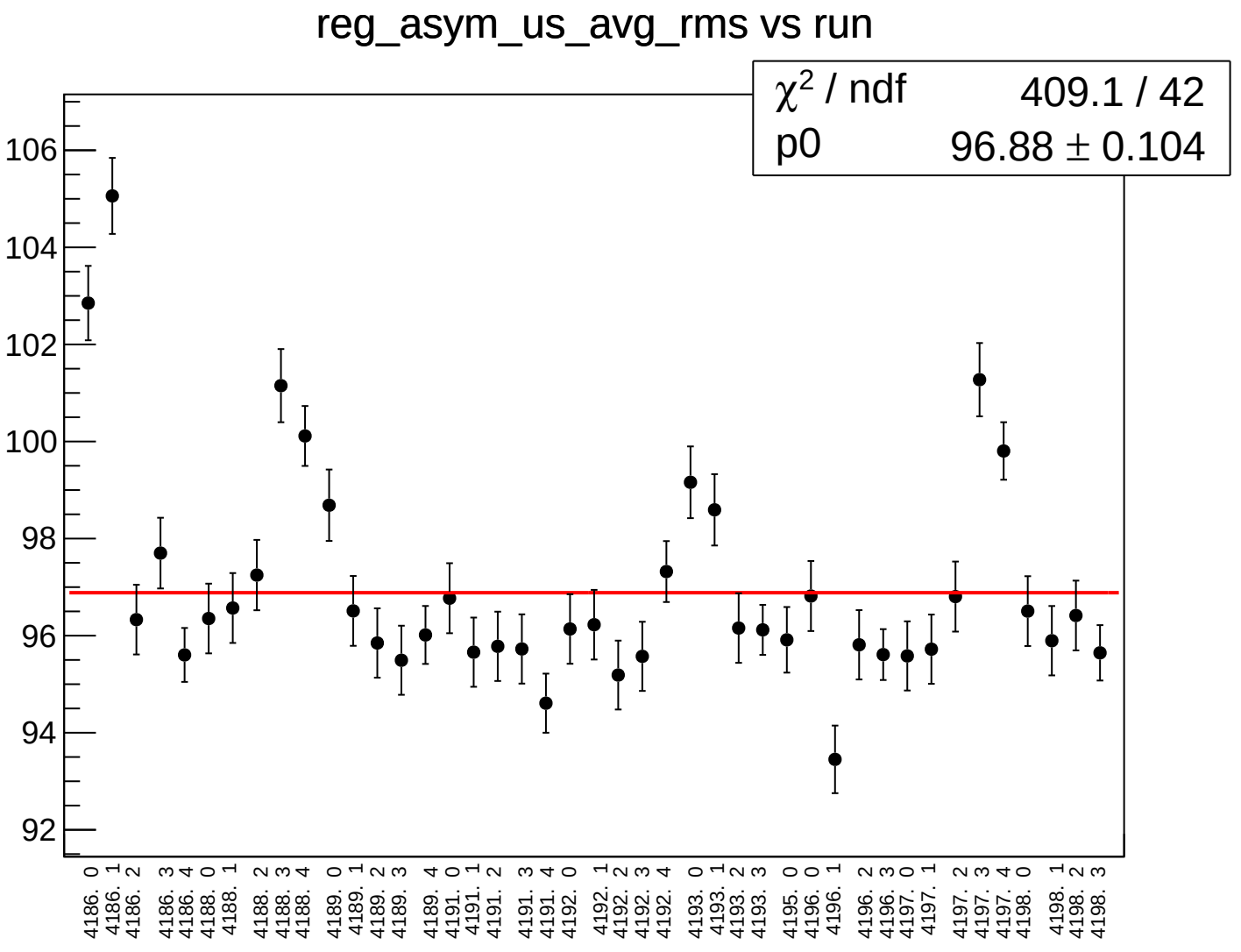
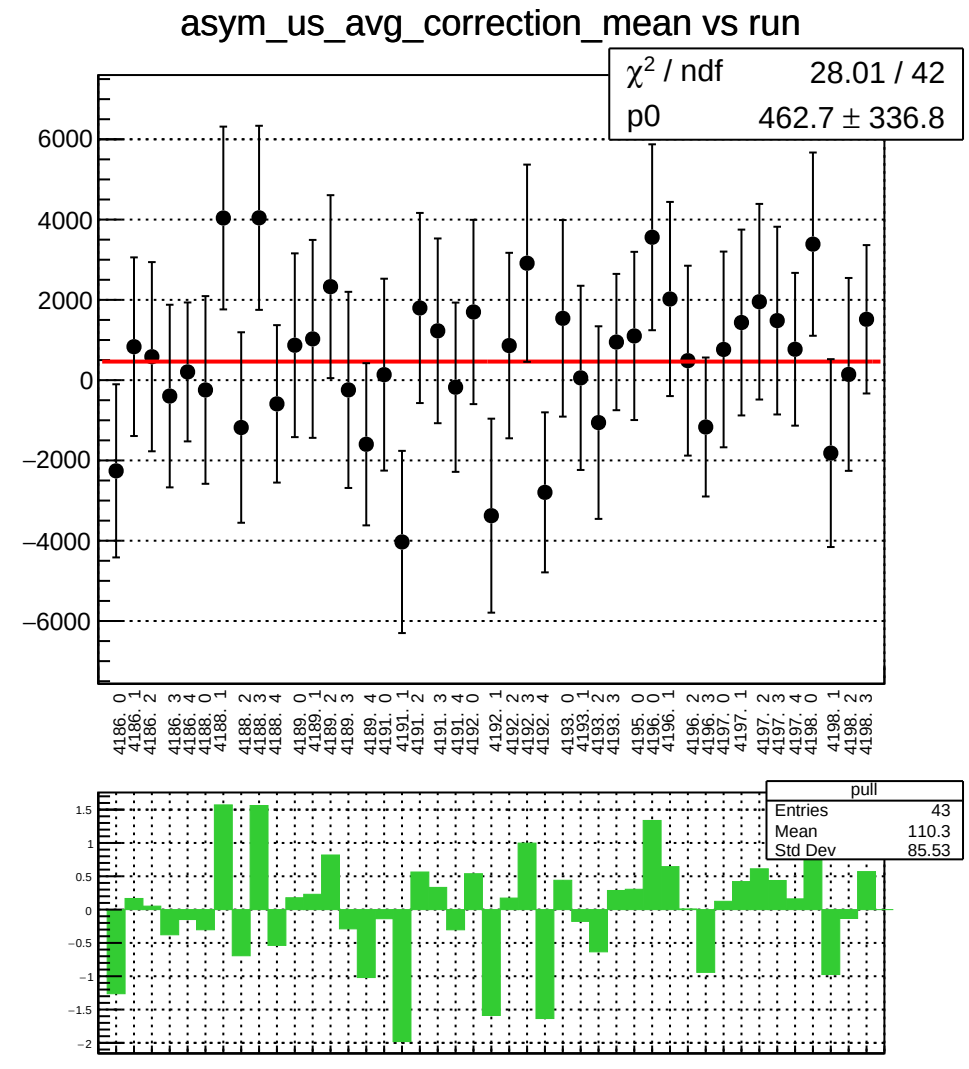
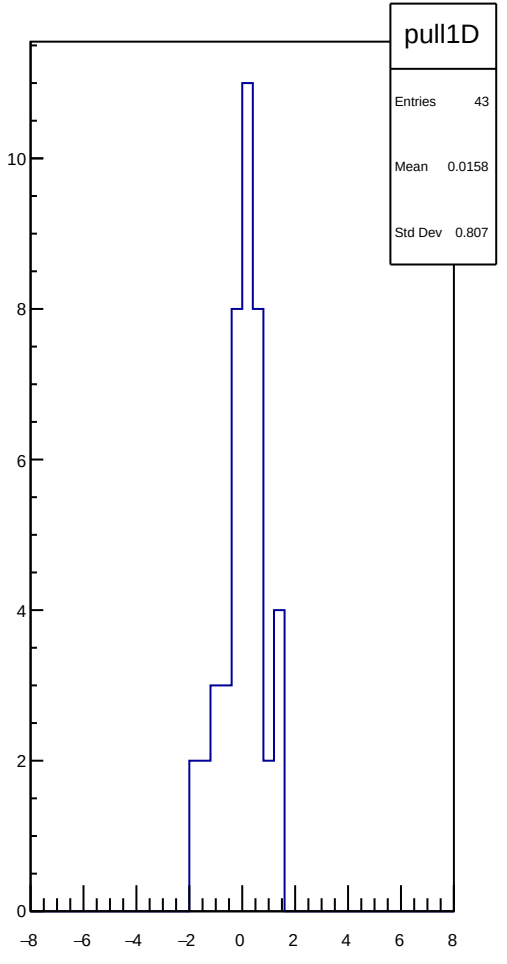
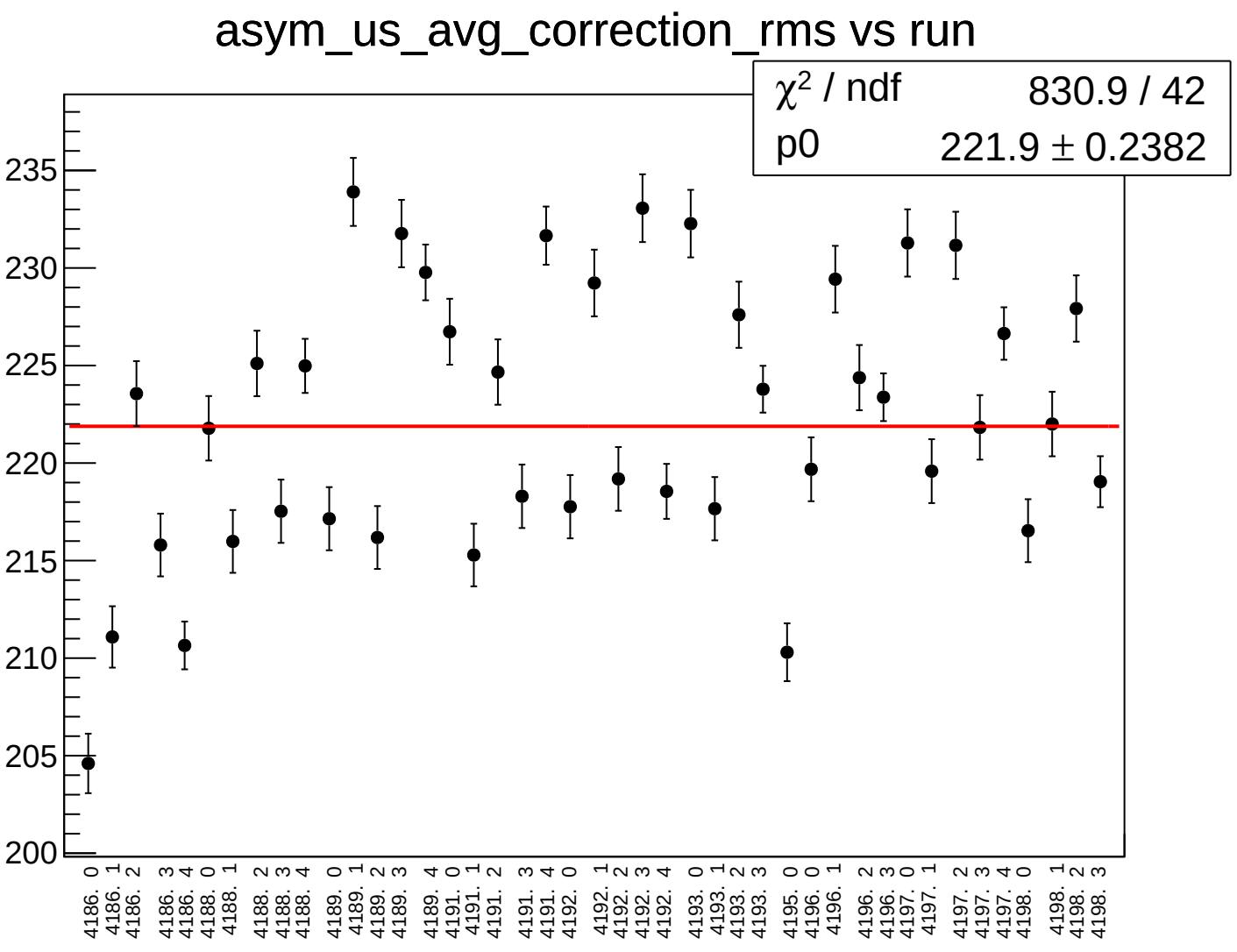

reg_asym_us_avg_mean vs run
χ² / ndf 47.24 / 42
p0 481.8 ± 147
4000
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 321.1
Std Dev 298.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

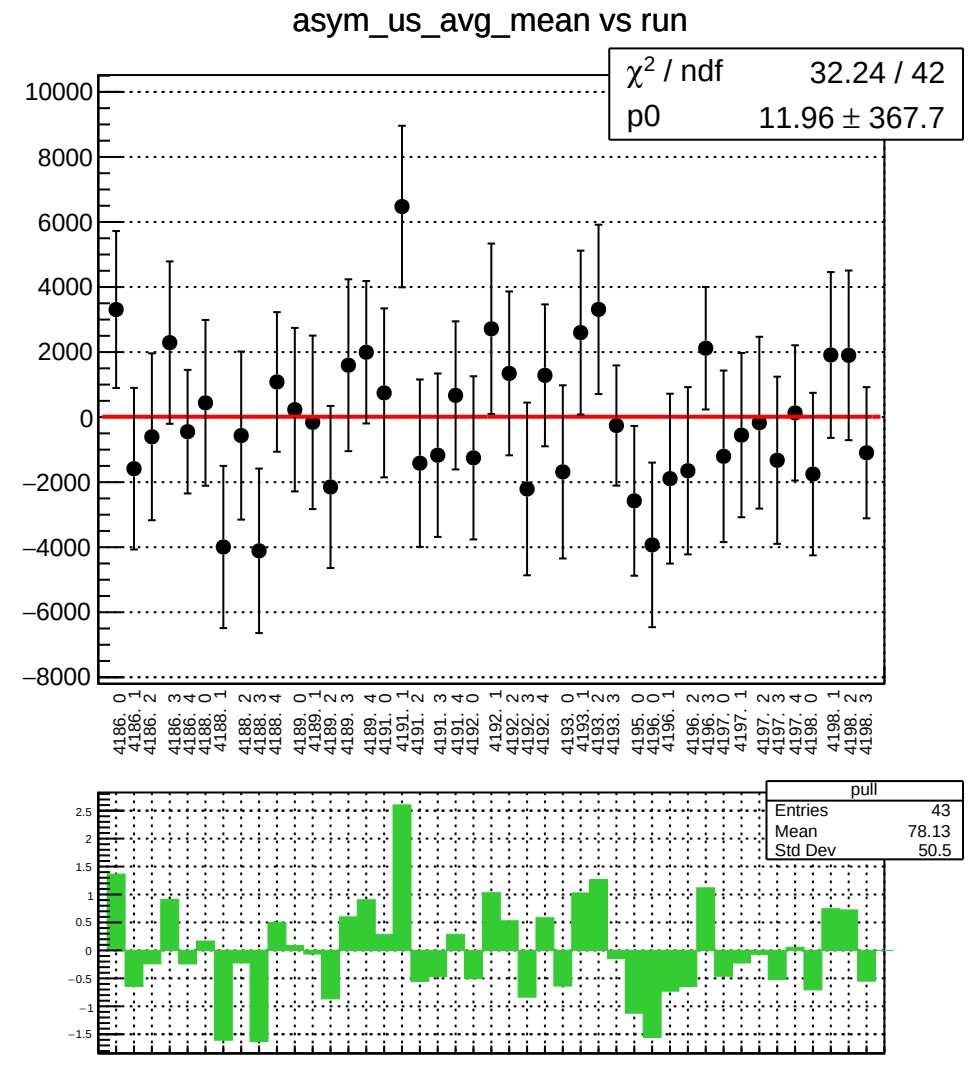

pull1D
Entries 43
Mean 0.005609
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

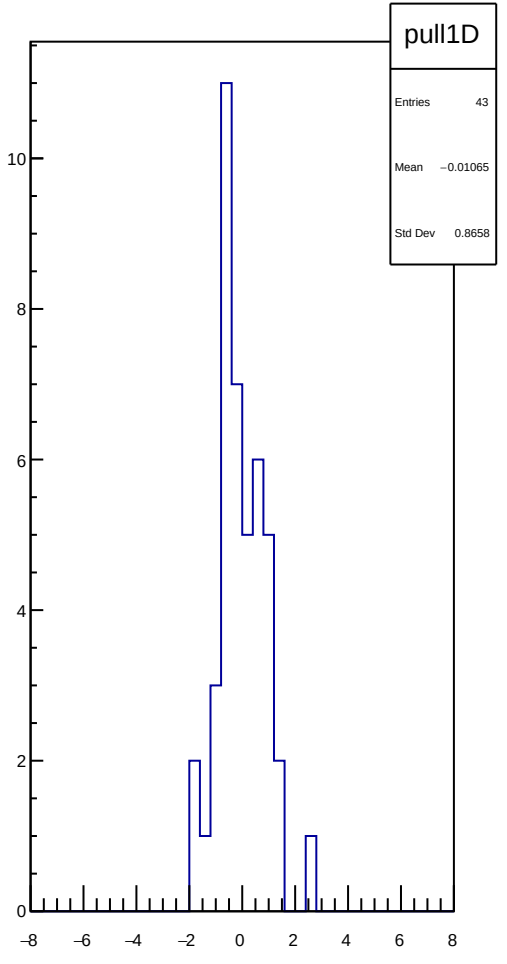

reg_asym_us_avg_rms vs run
χ^2 / ndf 409.1 / 42
p0 96.88 ± 0.104
106
104
102
100
98
96
94
92
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

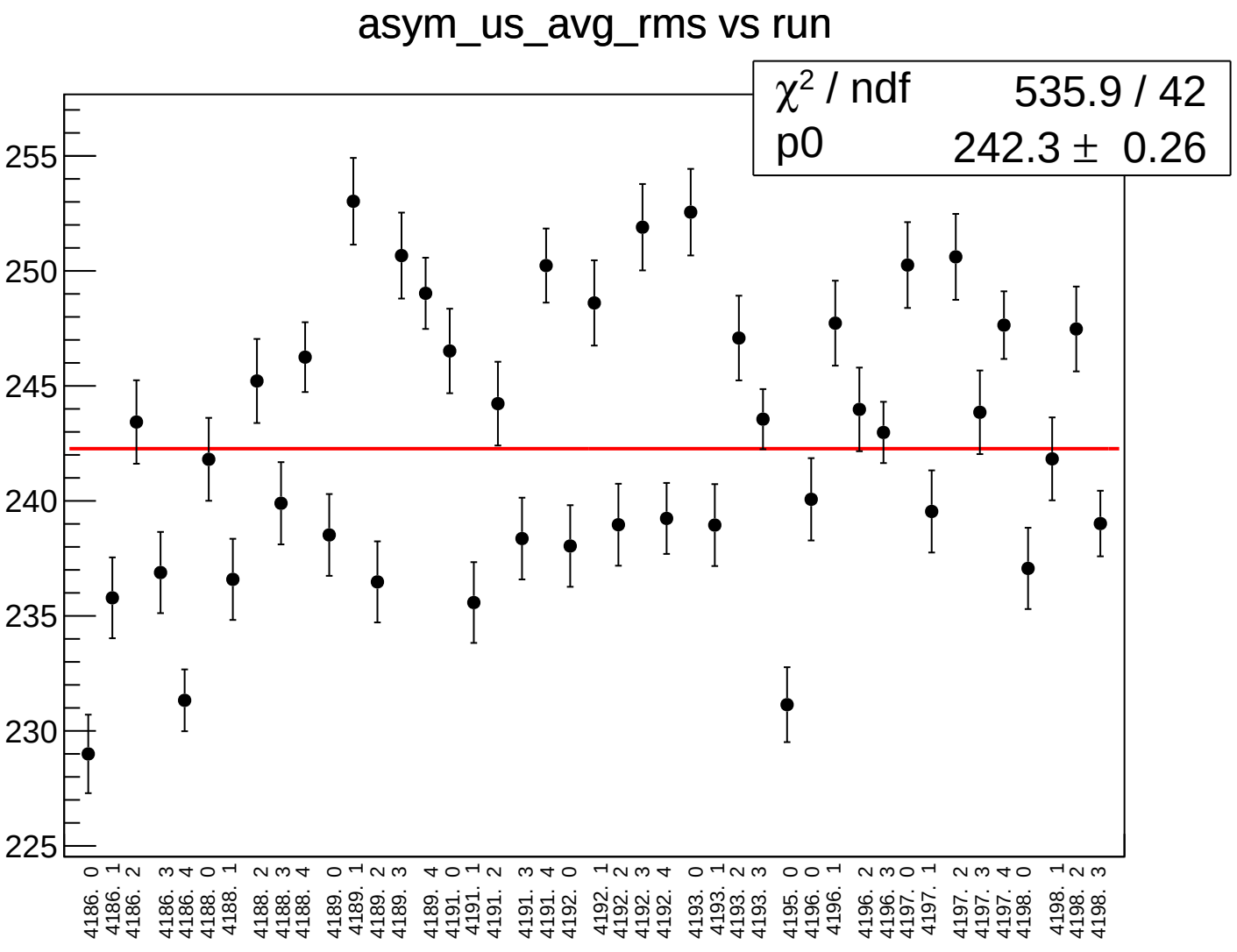

asym_us_avg_correction_mean vs run
χ² / ndf 28.01 / 42
p0 462.7 ± 336.8
6000
4000
2000
0
−2000
−4000
−6000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 110.3
Std Dev 85.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

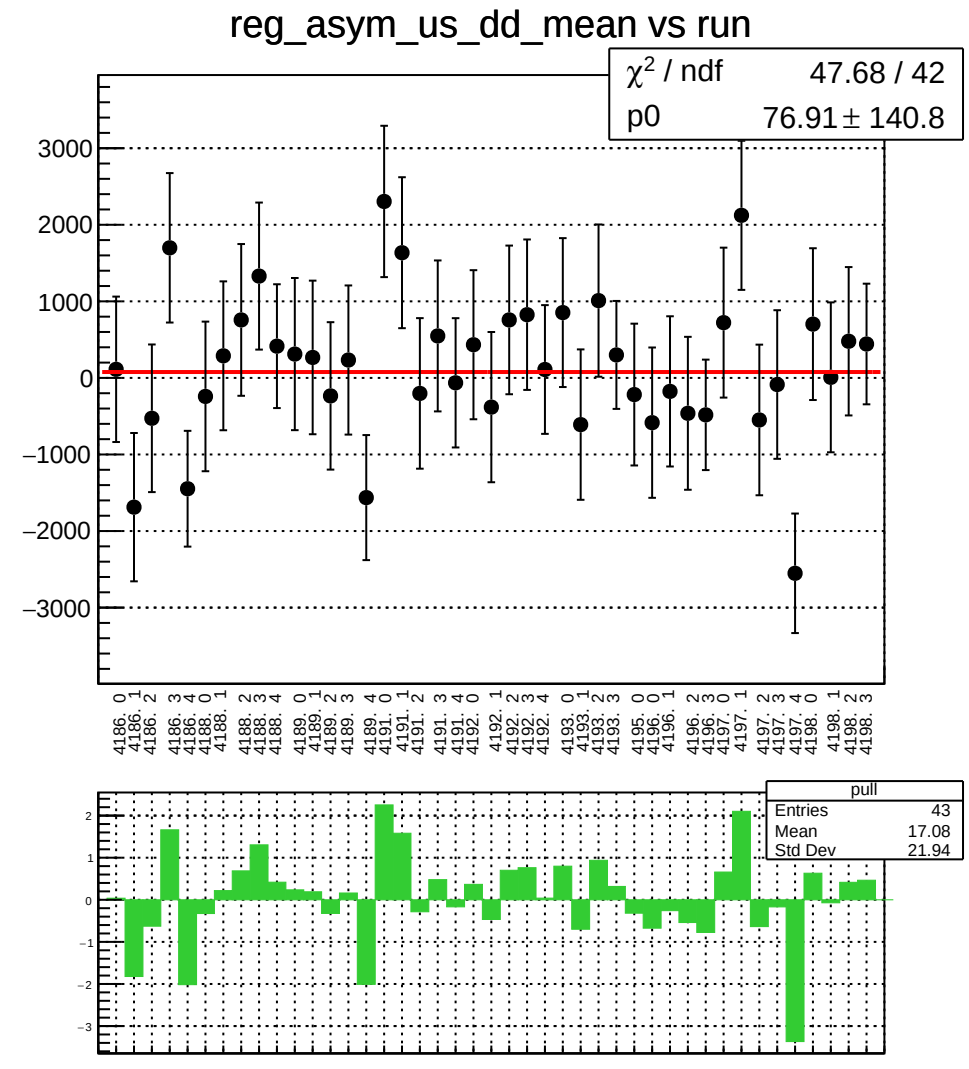

pull1D
Entries 43
Mean 0.0158
Std Dev 0.807
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

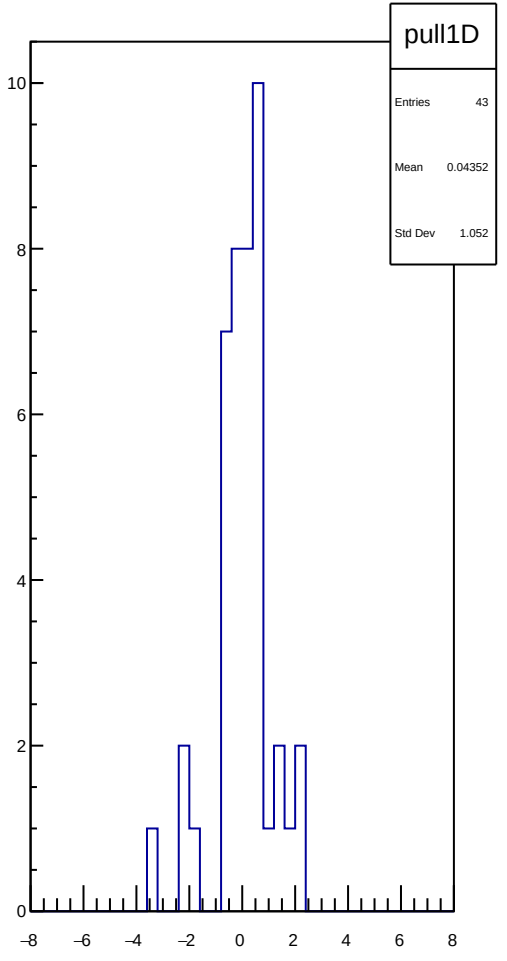

asym_us_avg_correction_rms vs run
χ² / ndf 830.9 / 42
p0 221.9 ± 0.2382
235
230
225
220
215
210
205
200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

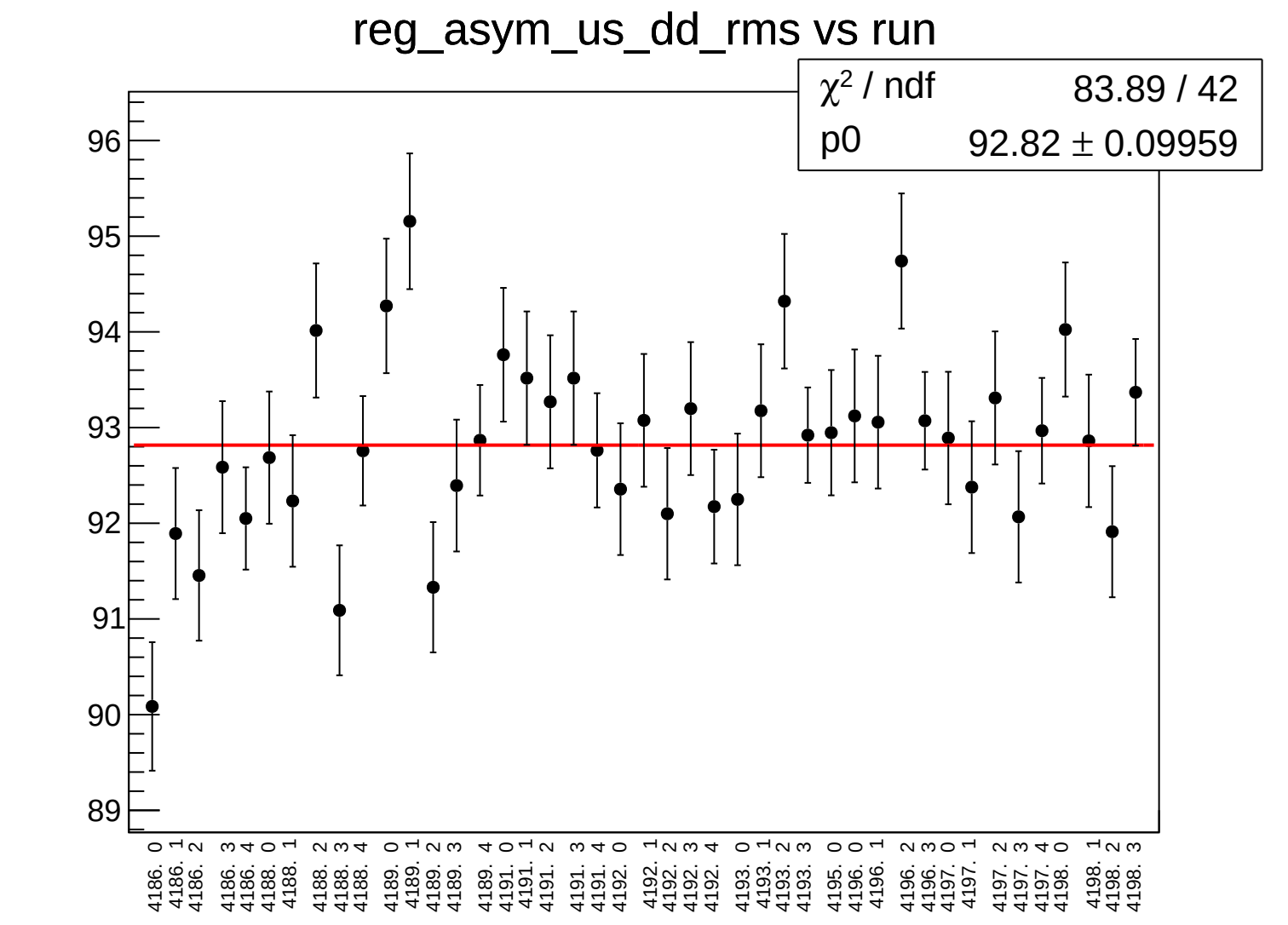

asym_us_avg_mean vs run
χ² / ndf 32.24 / 42
p0 11.96 ± 367.7
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 78.13
Std Dev 50.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

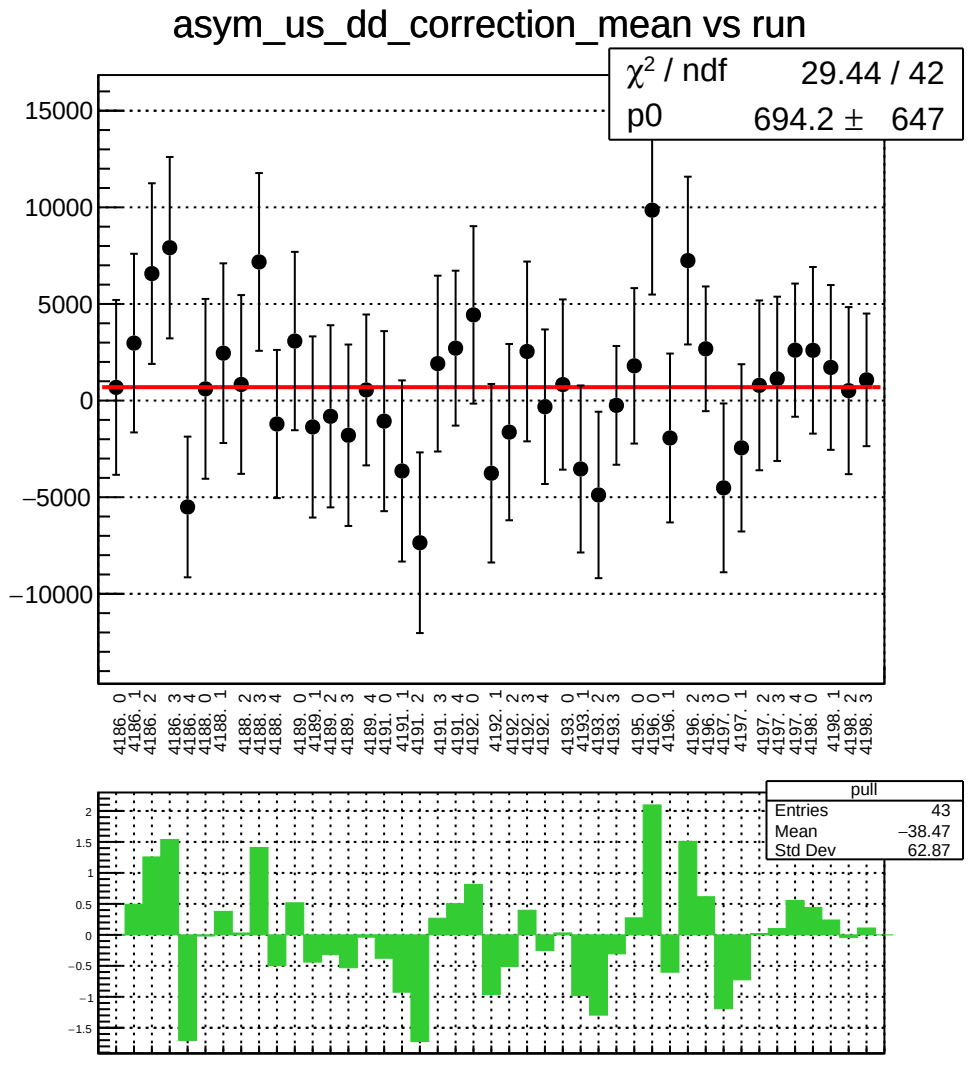

pull1D
Entries 43
Mean −0.01065
Std Dev 0.8658
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

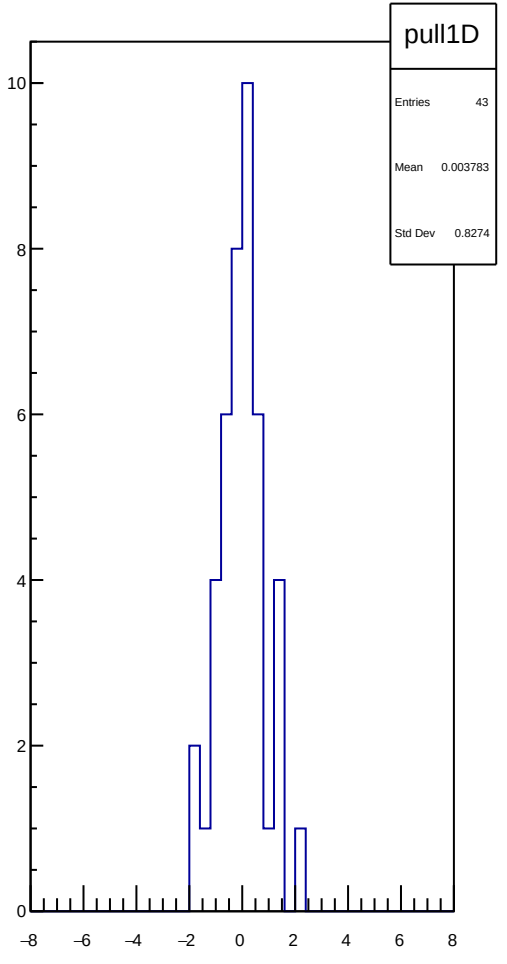

asym_us_avg_rms vs run
χ² / ndf 535.9 / 42
p0 242.3 ± 0.26
255
250
245
240
235
230
225
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

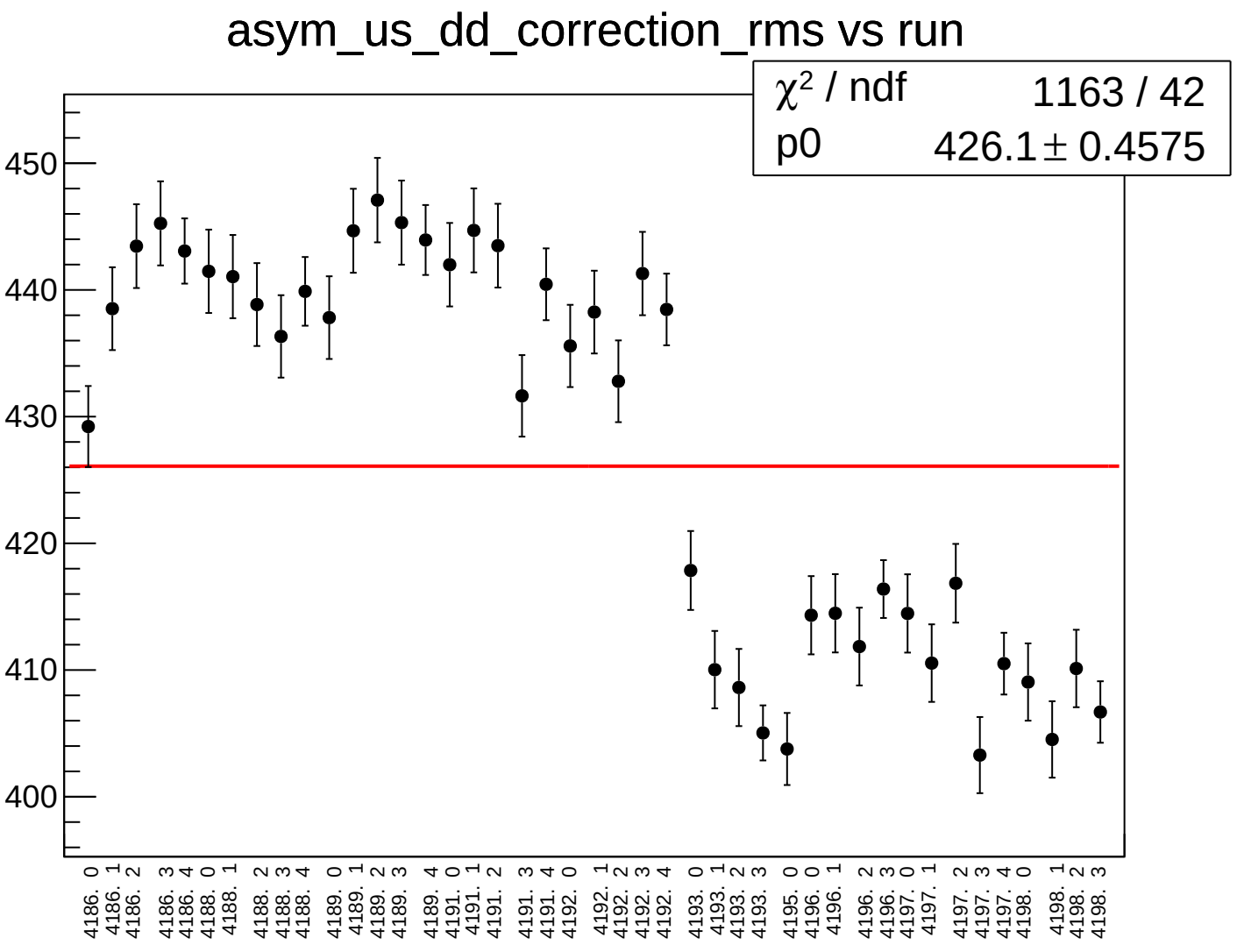

reg_asym_us_dd_mean vs run
χ² / ndf 47.68 / 42
p0 76.91 ± 140.8
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 17.08
Std Dev 21.94
2
1
0
−1
−2
−3

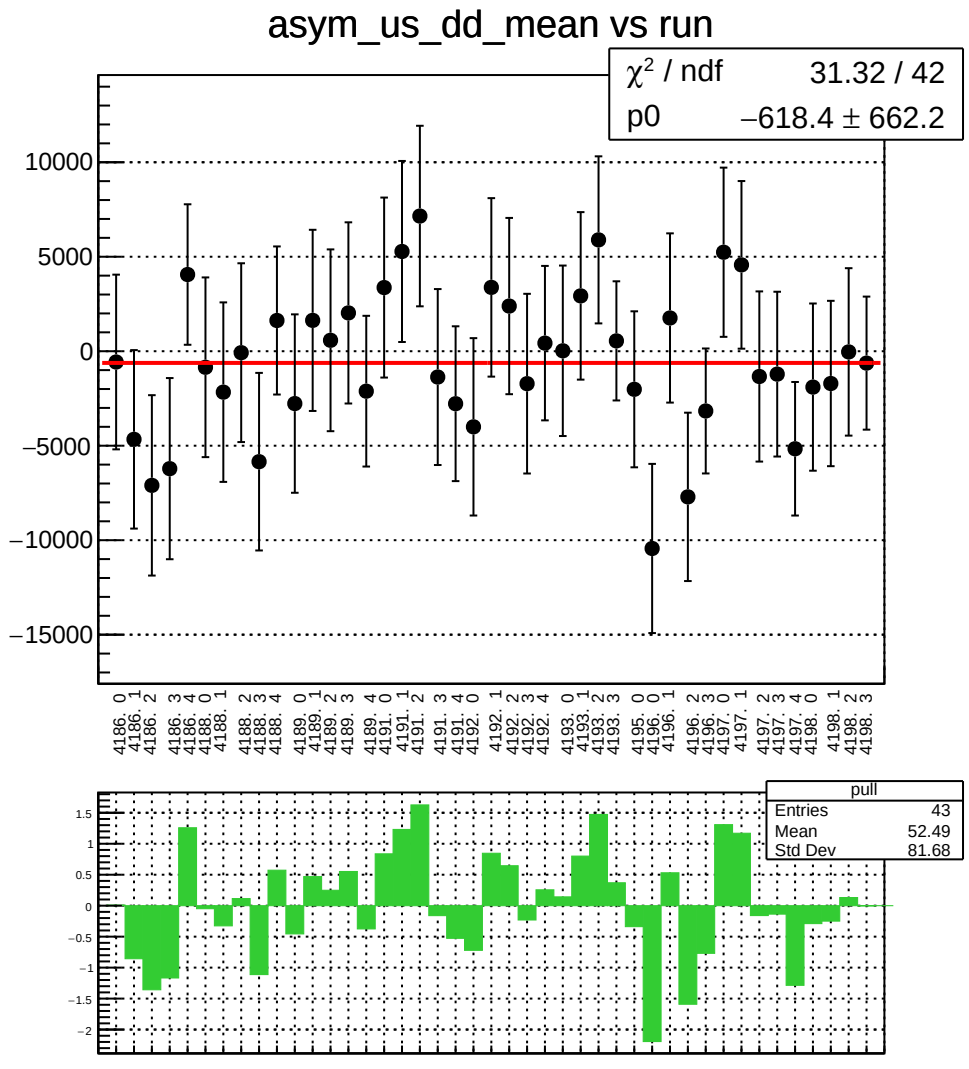

pull1D
Entries 43
Mean 0.04352
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

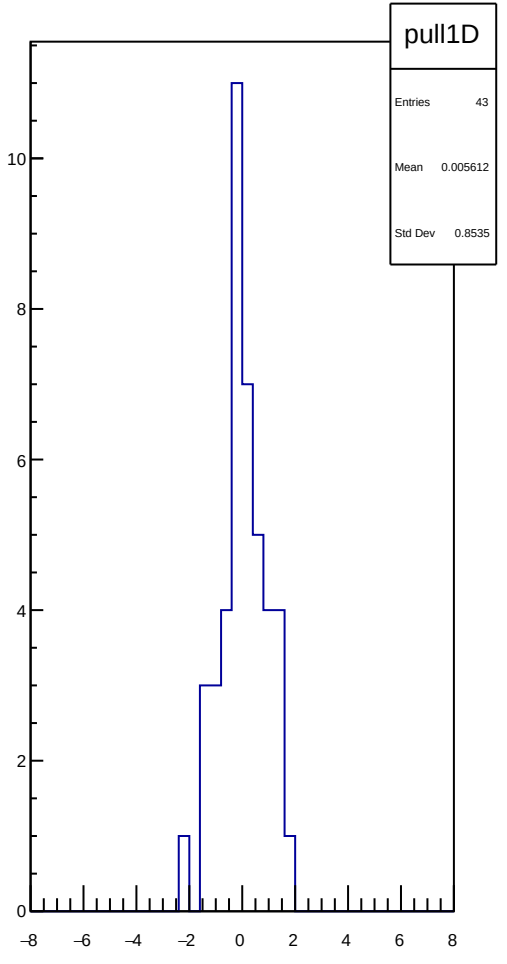

reg_asym_us_dd_rms vs run
χ² / ndf 83.89 / 42
p0 92.82 ± 0.09959
96
95
94
93
92
91
90
89
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

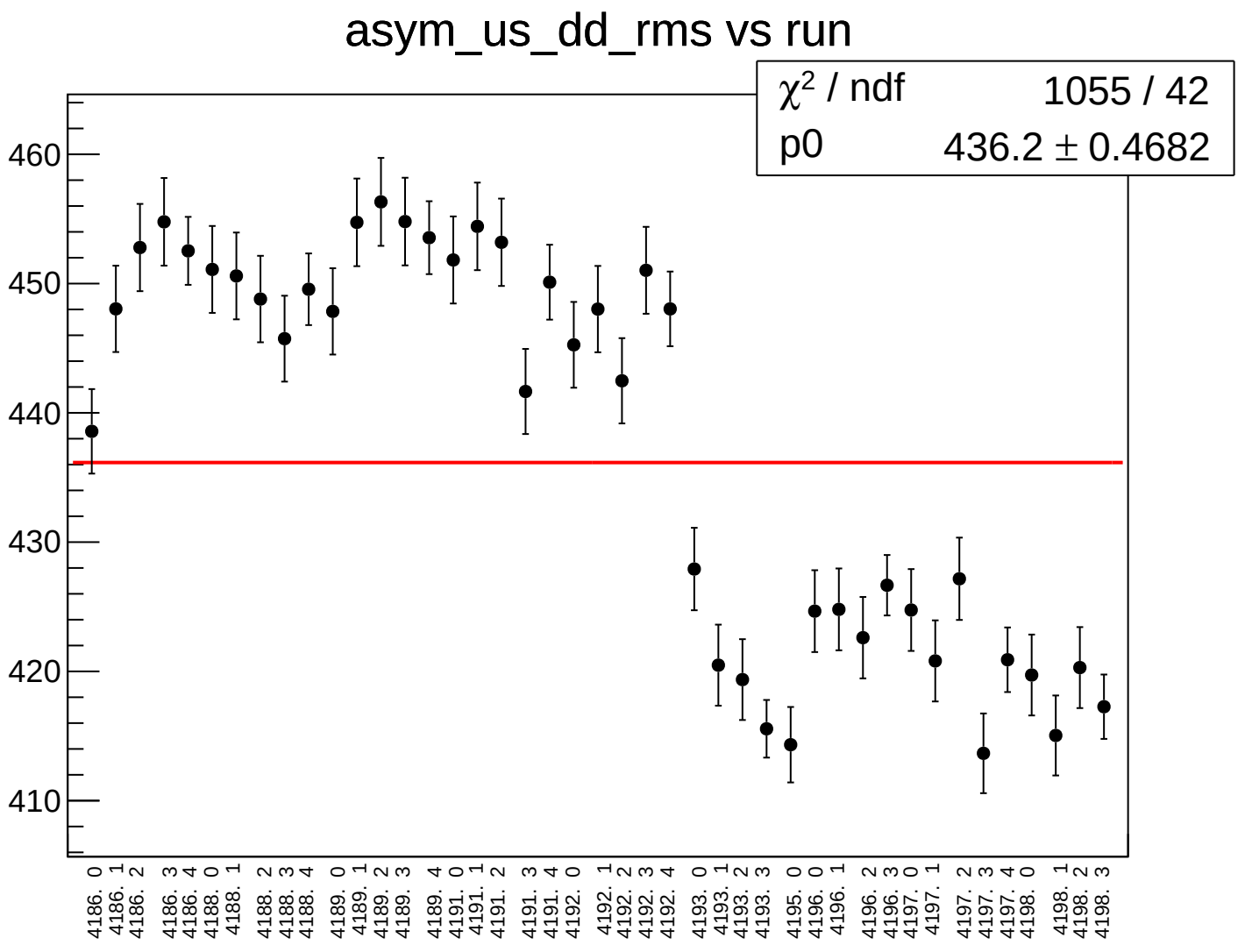

asym_us_dd_correction_mean vs run
χ² / ndf 29.44 / 42
p0 694.2 ± 647
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −38.47
Std Dev 62.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

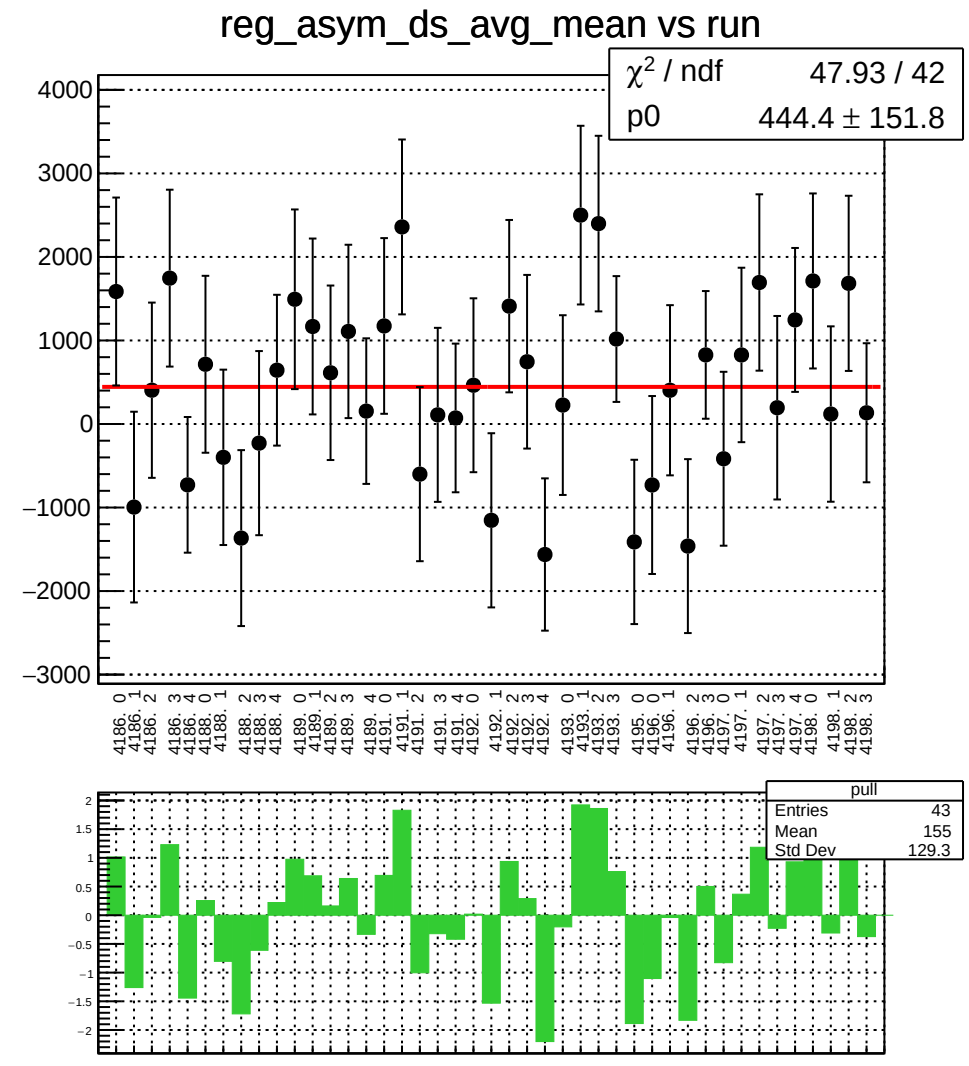

pull1D
Entries 43
Mean 0.003783
Std Dev 0.8274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

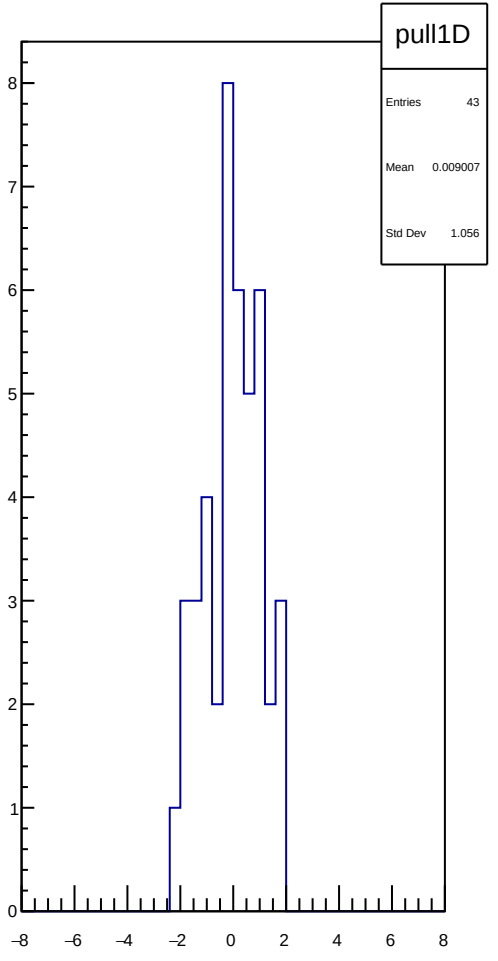

asym_us_dd_correction_rms vs run
χ² / ndf 1163 / 42
p0 426.1 ± 0.4575
450
440
430
420
410
400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

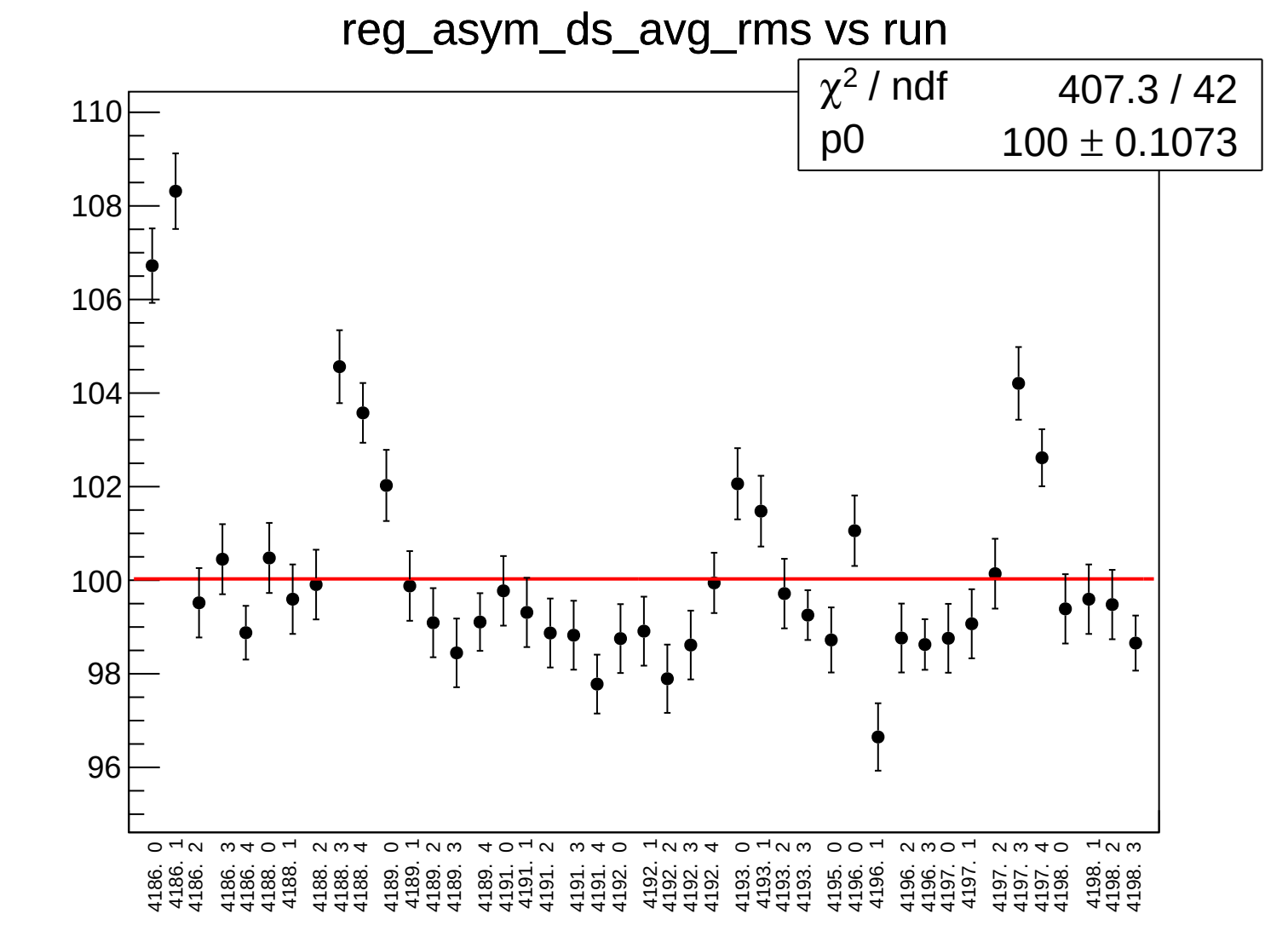

asym_us_dd_mean vs run
χ² / ndf 31.32 / 42
p0 −618.4 ± 662.2
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 52.49
Std Dev 81.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2

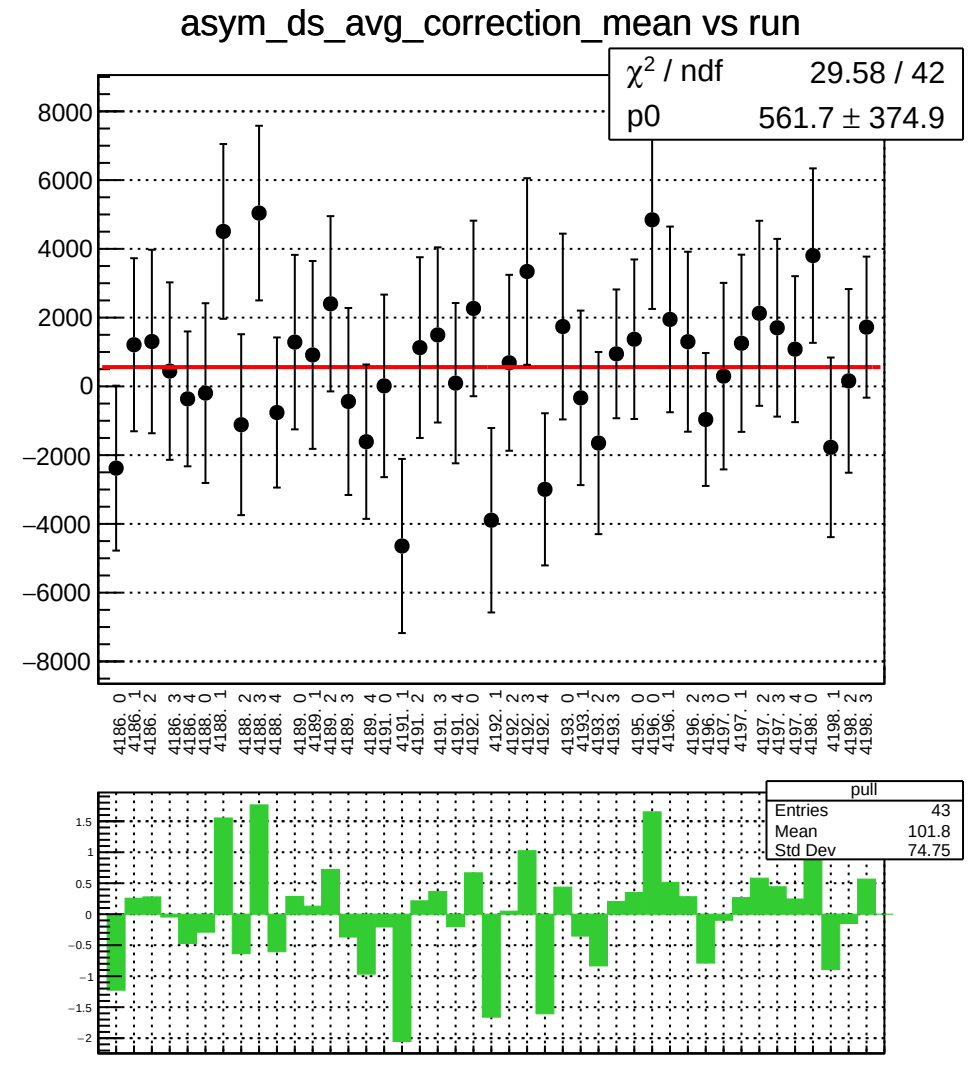

pull1D
Entries 43
Mean 0.005612
Std Dev 0.8535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

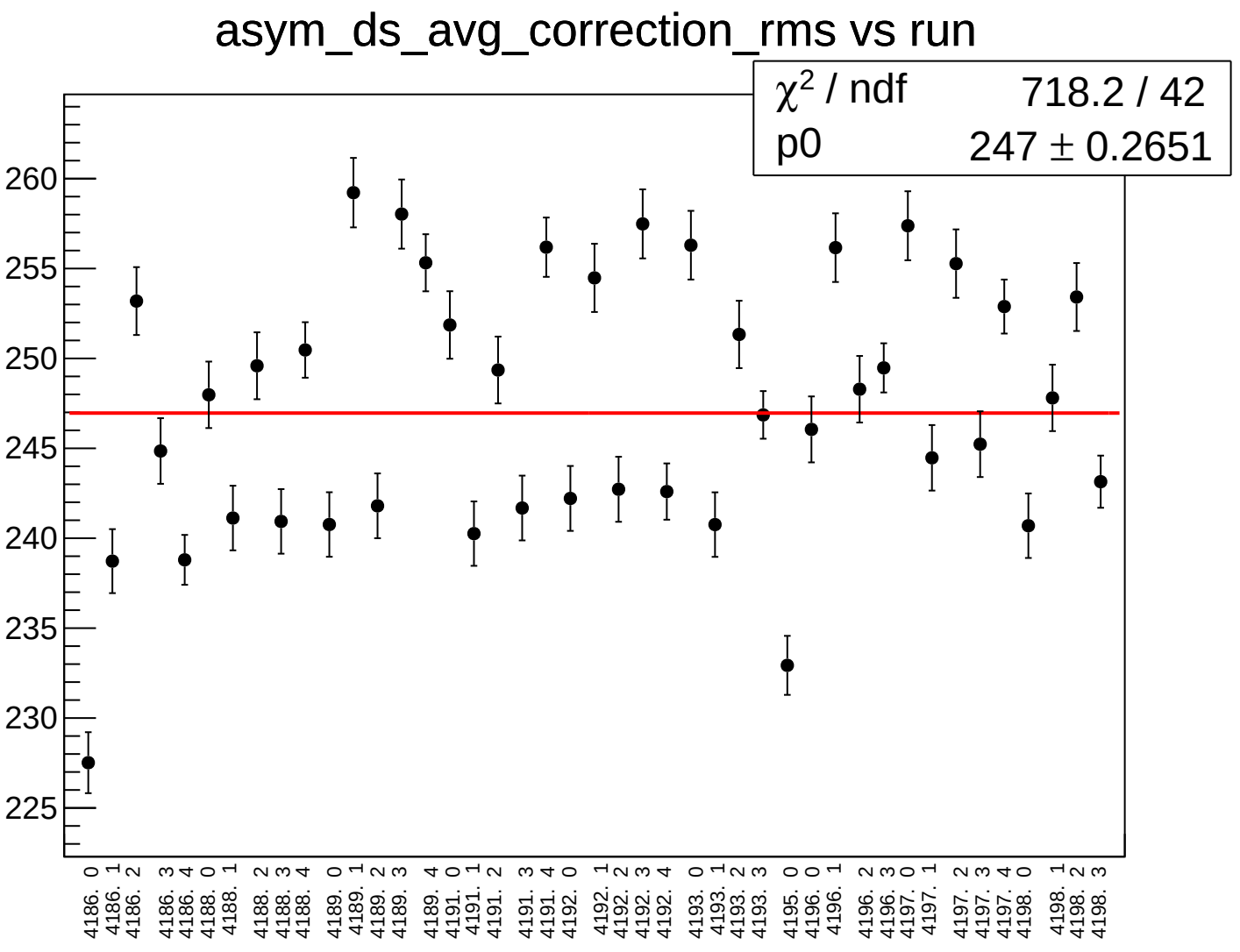

asym_us_dd_rms vs run
χ² / ndf 1055 / 42
p0 436.2 ± 0.4682
460
450
440
430
420
410
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

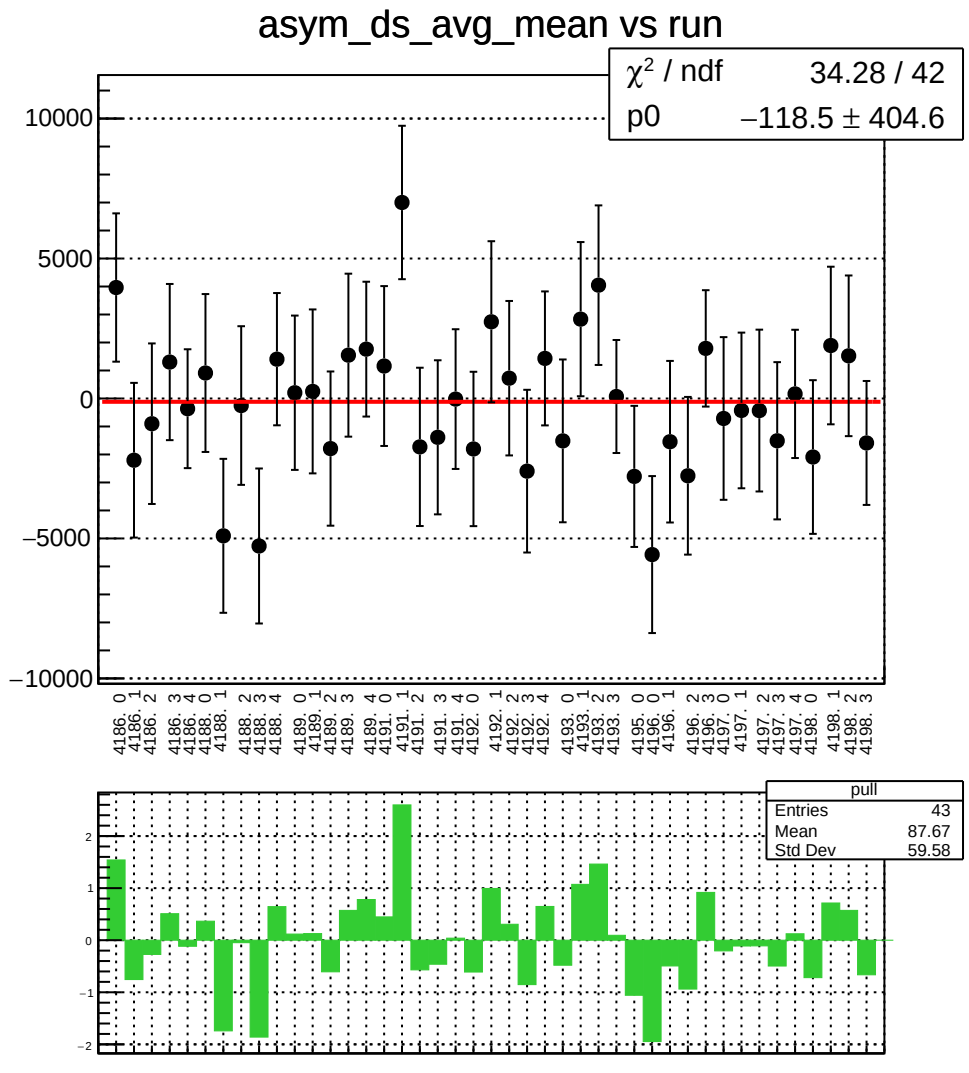

reg_asym_ds_avg_mean vs run
χ^2 / ndf 47.93 / 42
p0 444.4 ± 151.8
4000
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 155
Std Dev 129.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

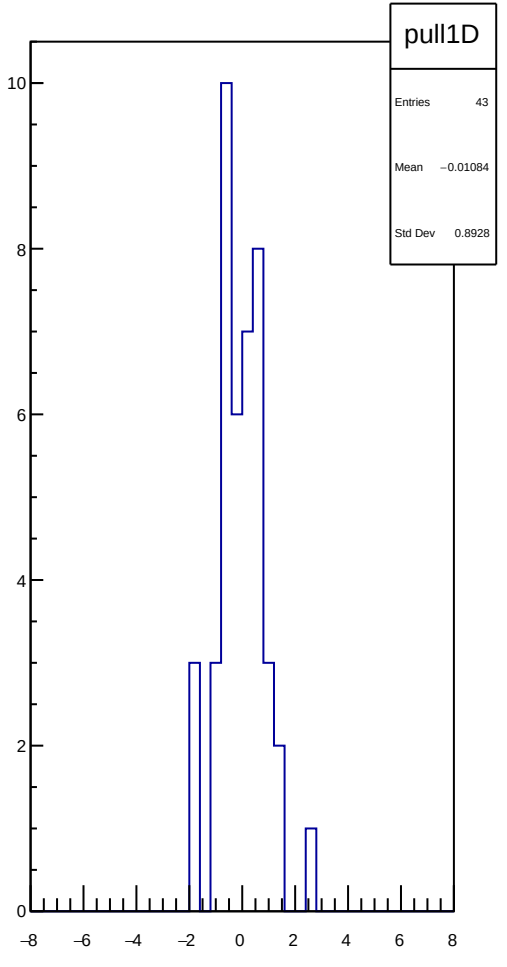

pull1D
Entries 43
Mean 0.009007
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

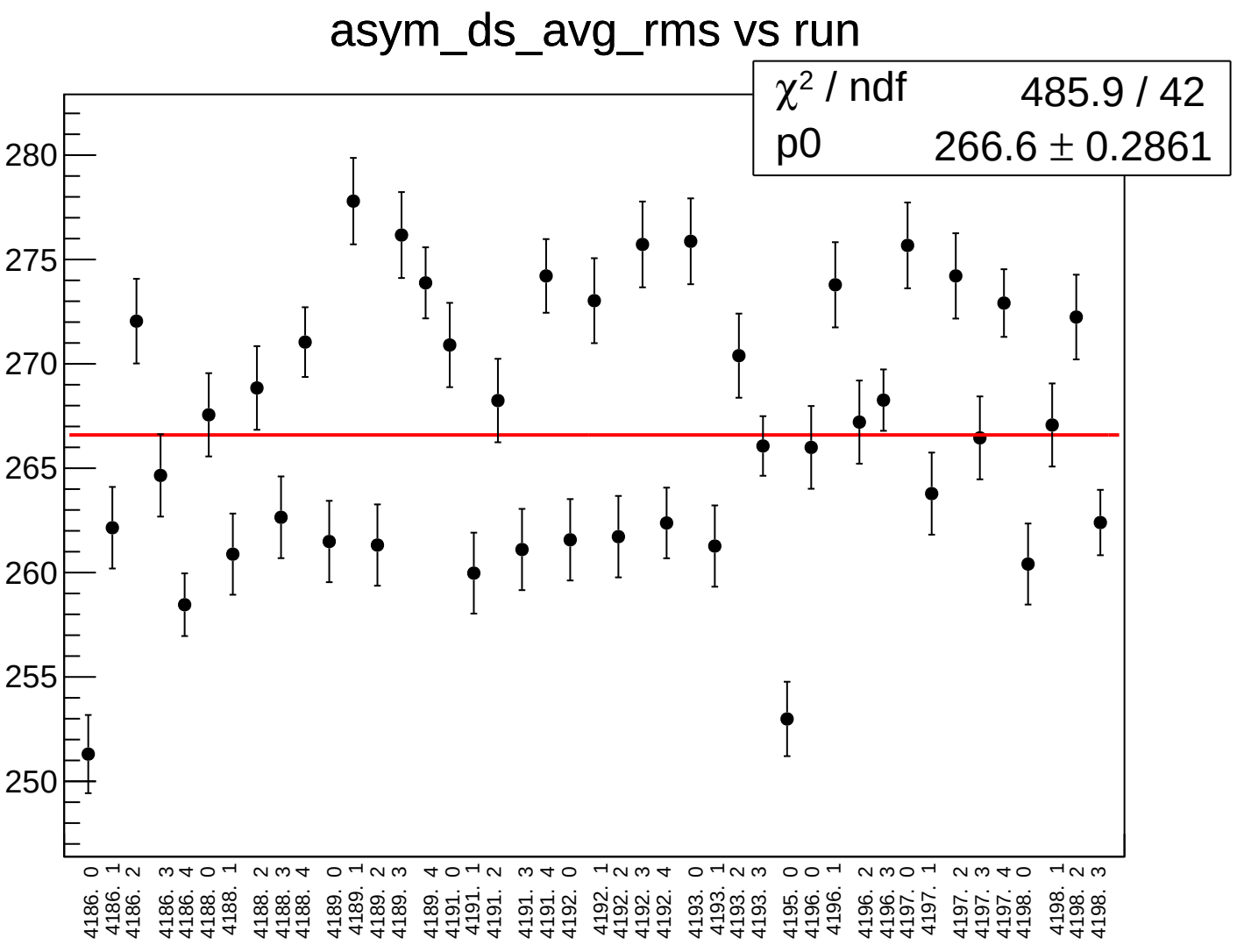

reg_asym_ds_avg_rms vs run
χ² / ndf 407.3 / 42
p0 100 ± 0.1073
110
108
106
104
102
100
98
96
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

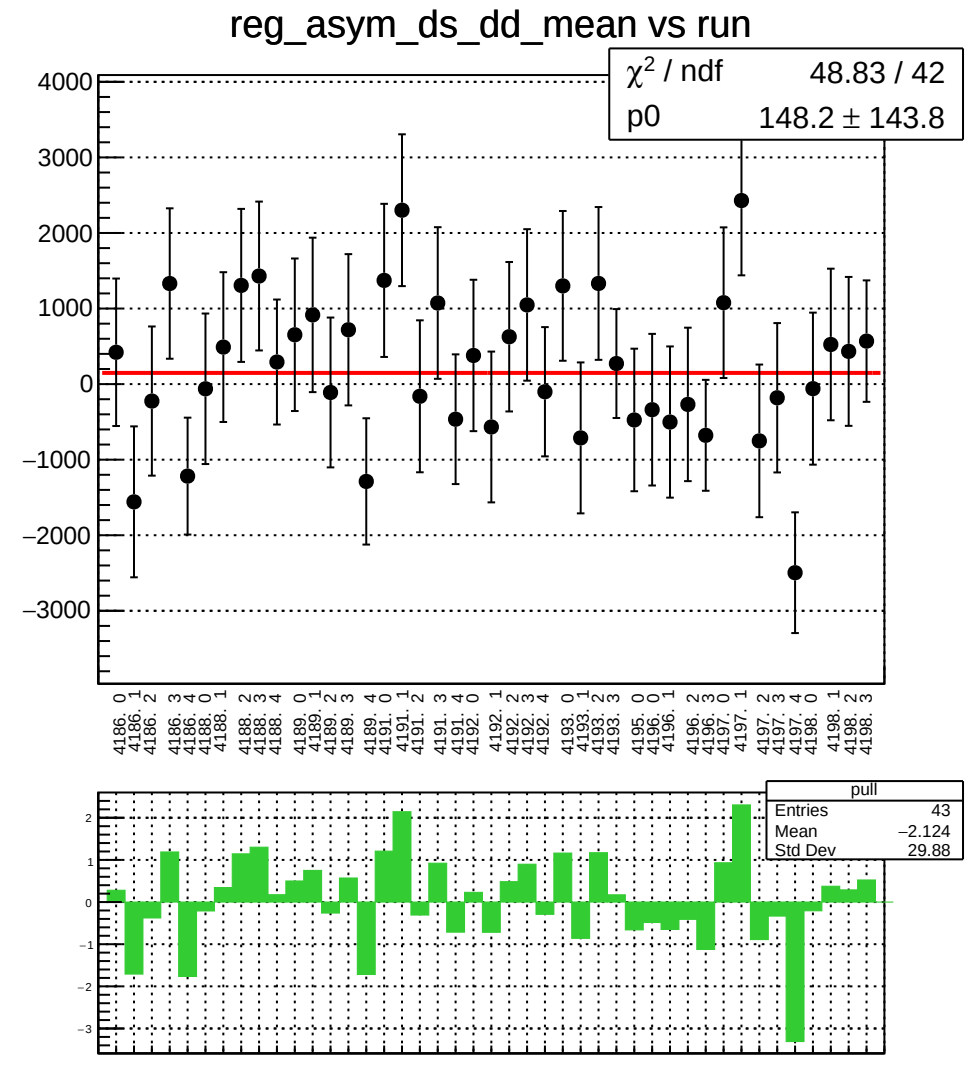

asym_ds_avg_correction_mean vs run
χ² / ndf 29.58 / 42
p0 561.7 ± 374.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 101.8
Std Dev 74.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01571
Std Dev 0.8292
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

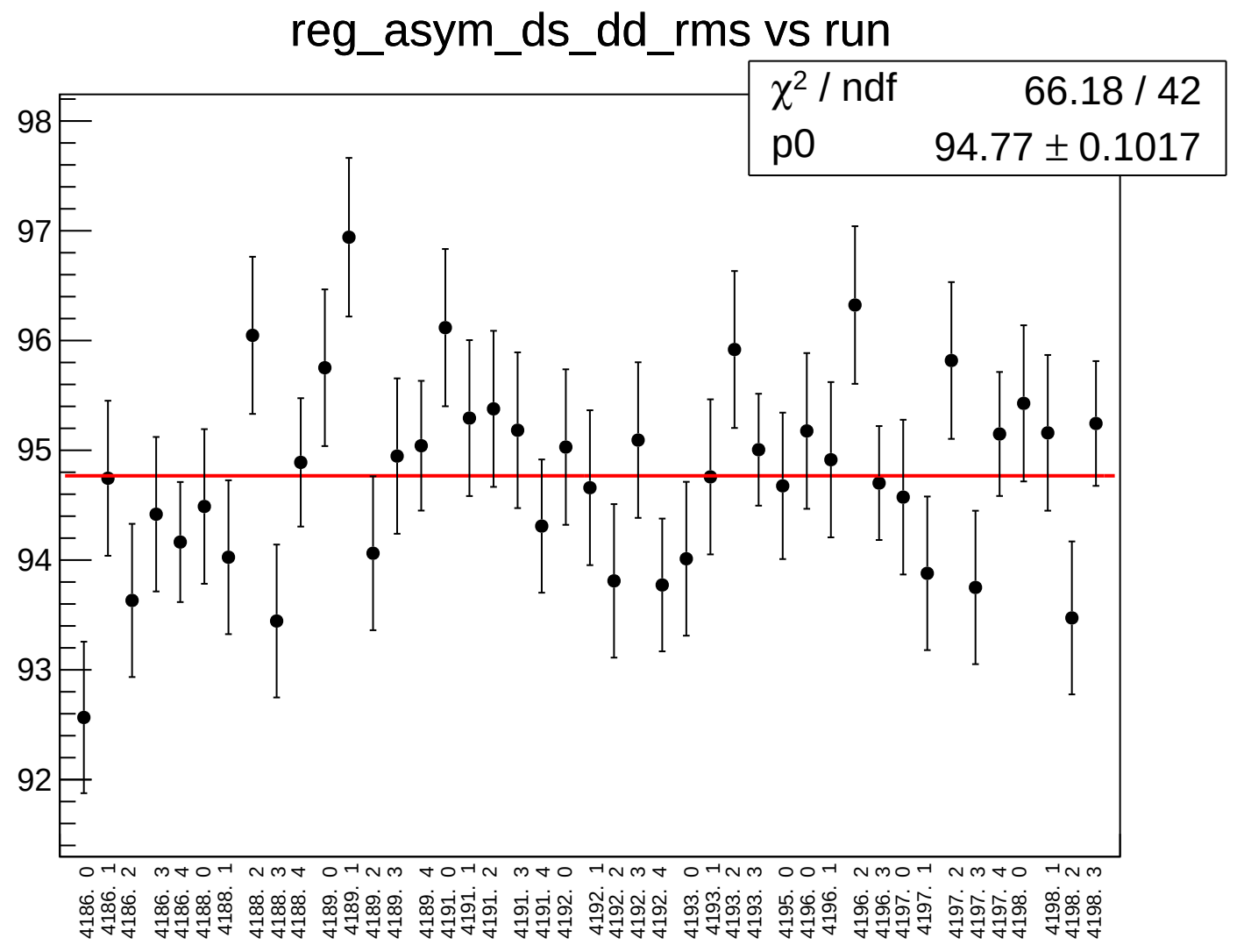

asym_ds_avg_correction_rms vs run
χ² / ndf 718.2 / 42
p0 247 ± 0.2651
260
255
250
245
240
235
230
225
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

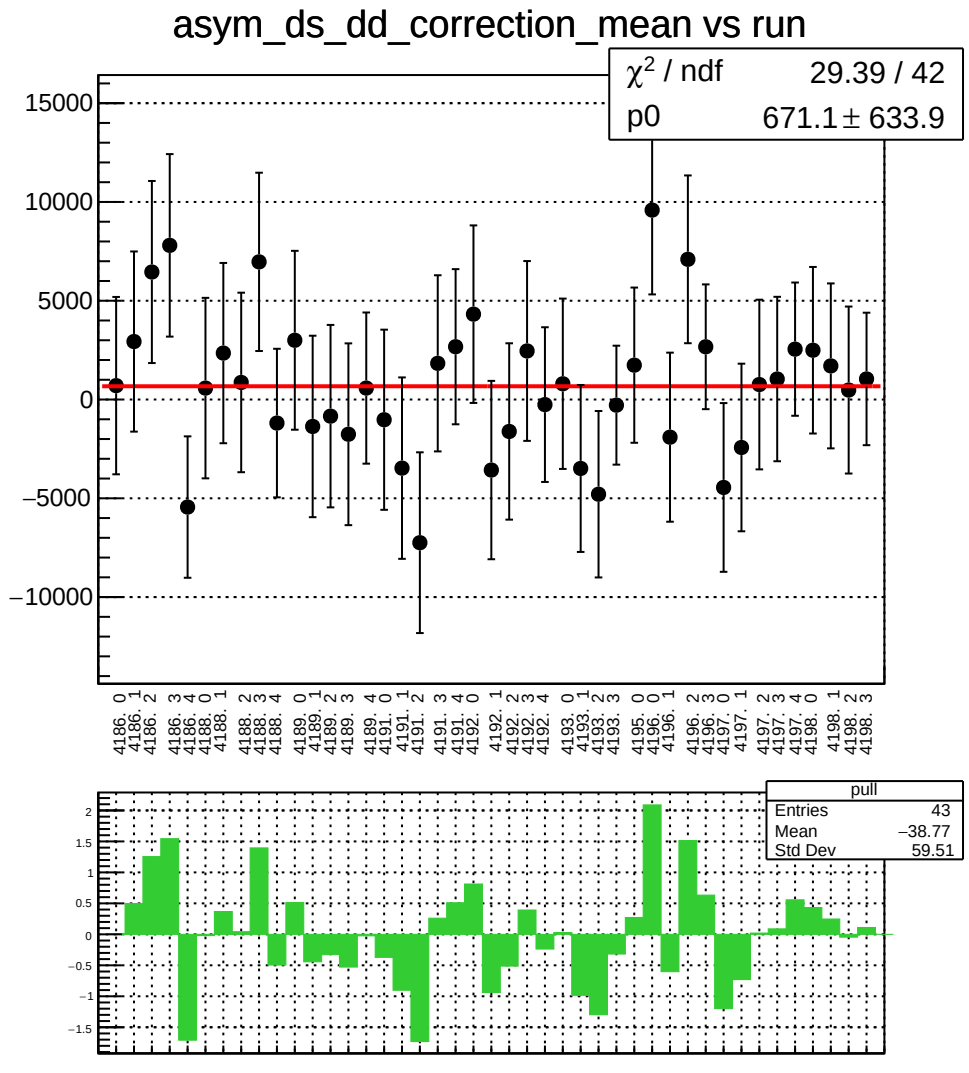

asym_ds_avg_mean vs run
χ² / ndf 34.28 / 42
p0 −118.5 ± 404.6
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 87.67
Std Dev 59.58
2
1
0
−1
−2

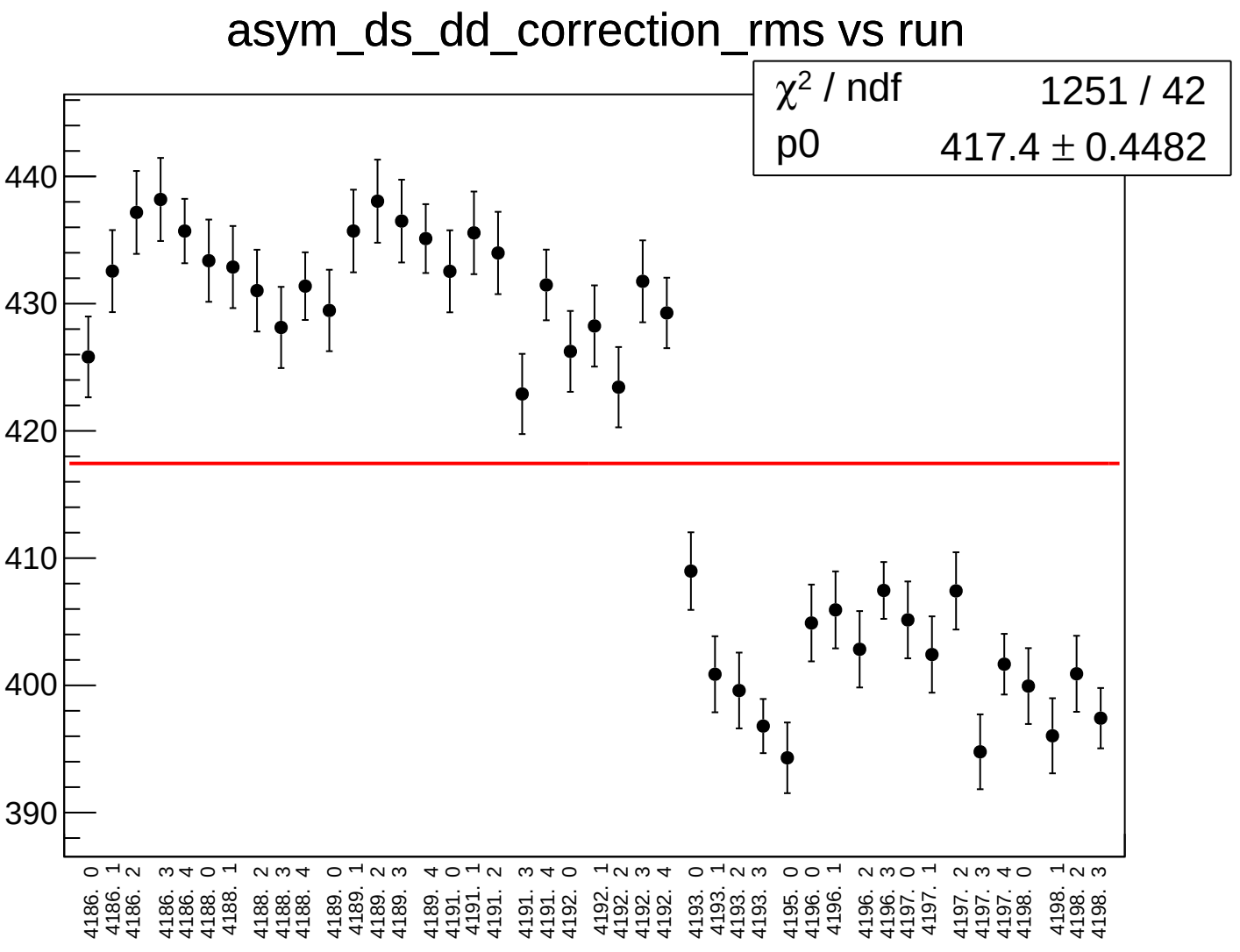

pull1D
Entries 43
Mean −0.01084
Std Dev 0.8928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

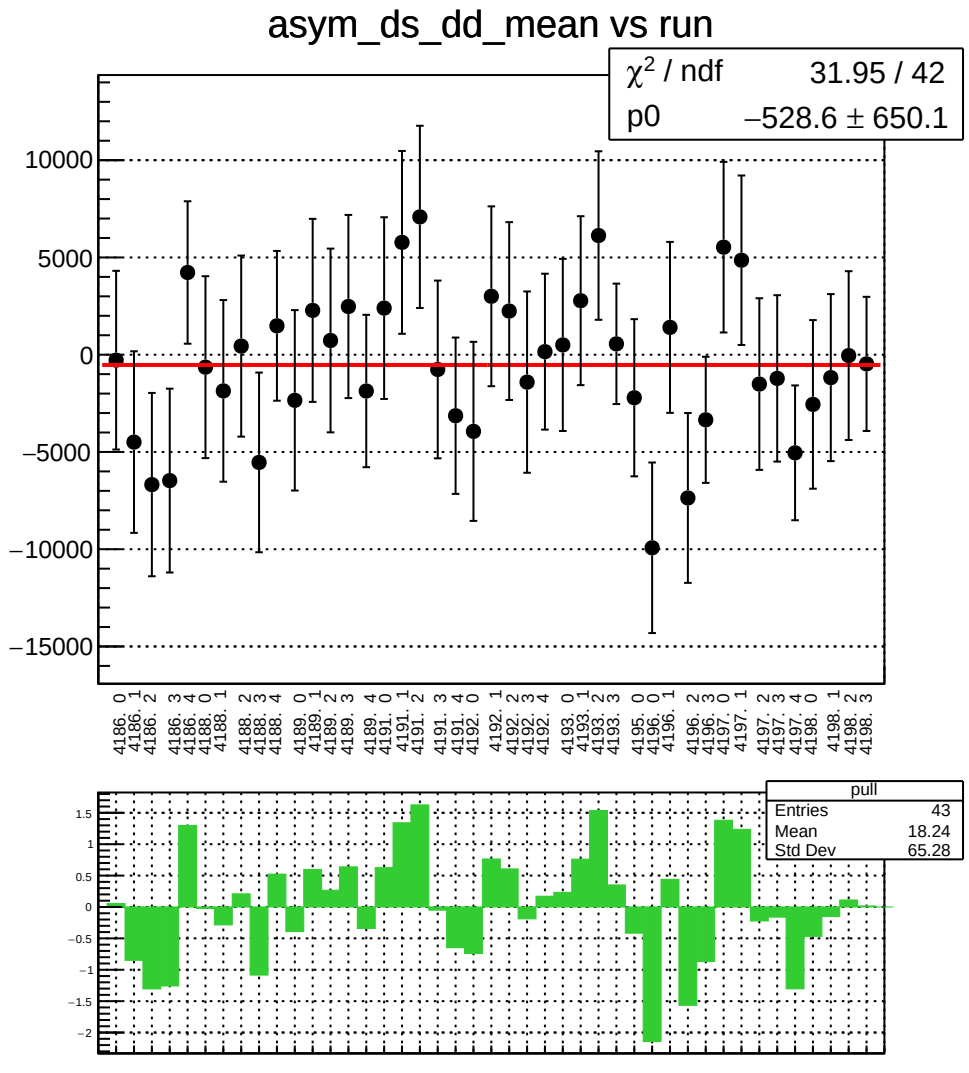

asym_ds_avg_rms vs run
χ² / ndf 485.9 / 42
p0 266.6 ± 0.2861
280
275
270
265
260
255
250
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

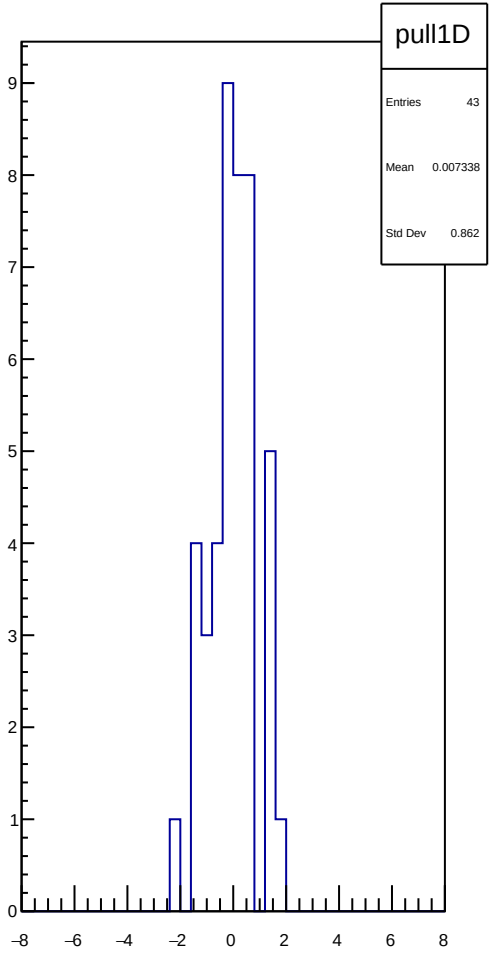

reg_asym_ds_dd_mean vs run
χ² / ndf 48.83 / 42
p0 148.2 ± 143.8
4000
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −2.124
Std Dev 29.88
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.04805
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

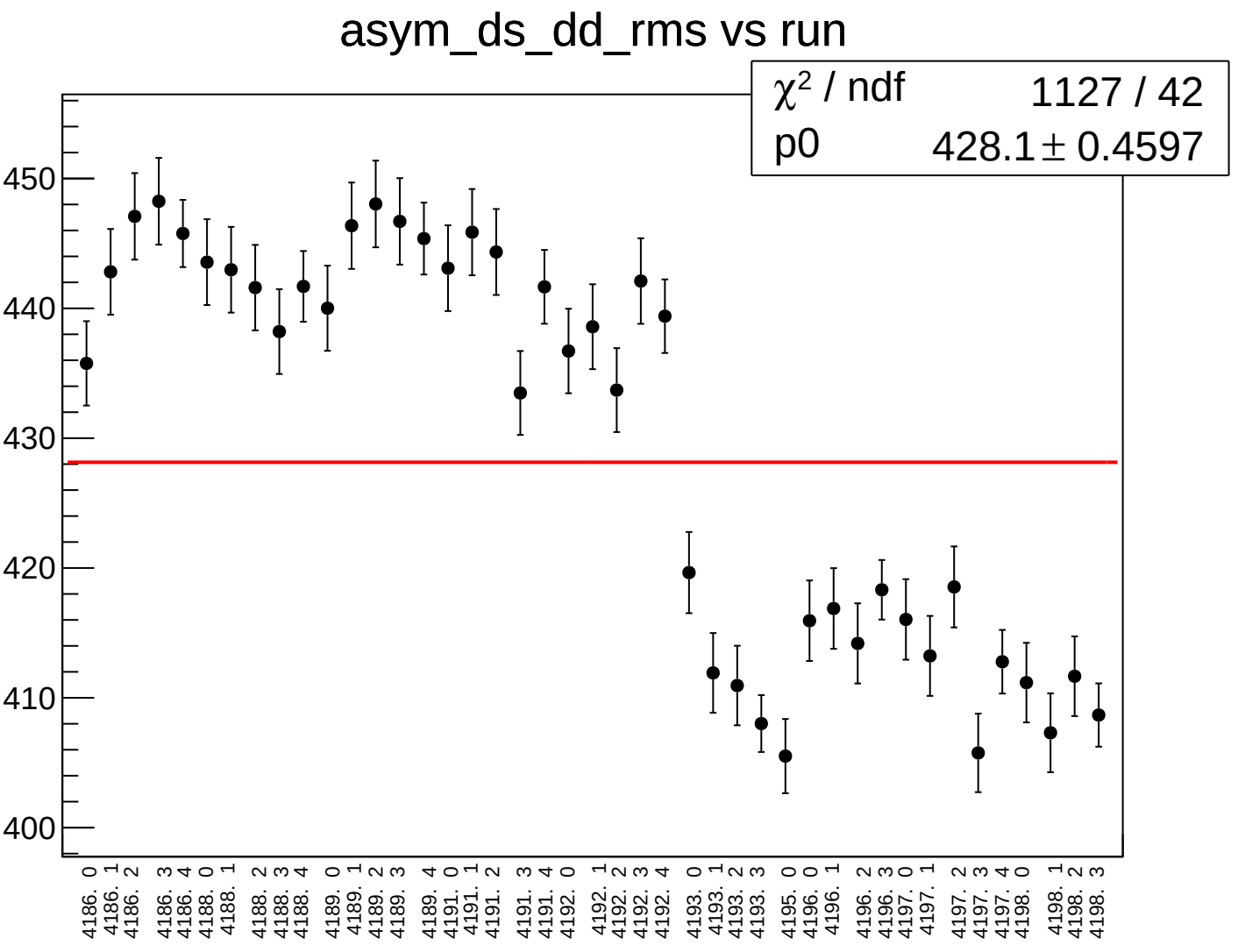

reg_asym_ds_dd_rms vs run
χ² / ndf 66.18 / 42
p0 94.77 ± 0.1017
98
97
96
95
94
93
92
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

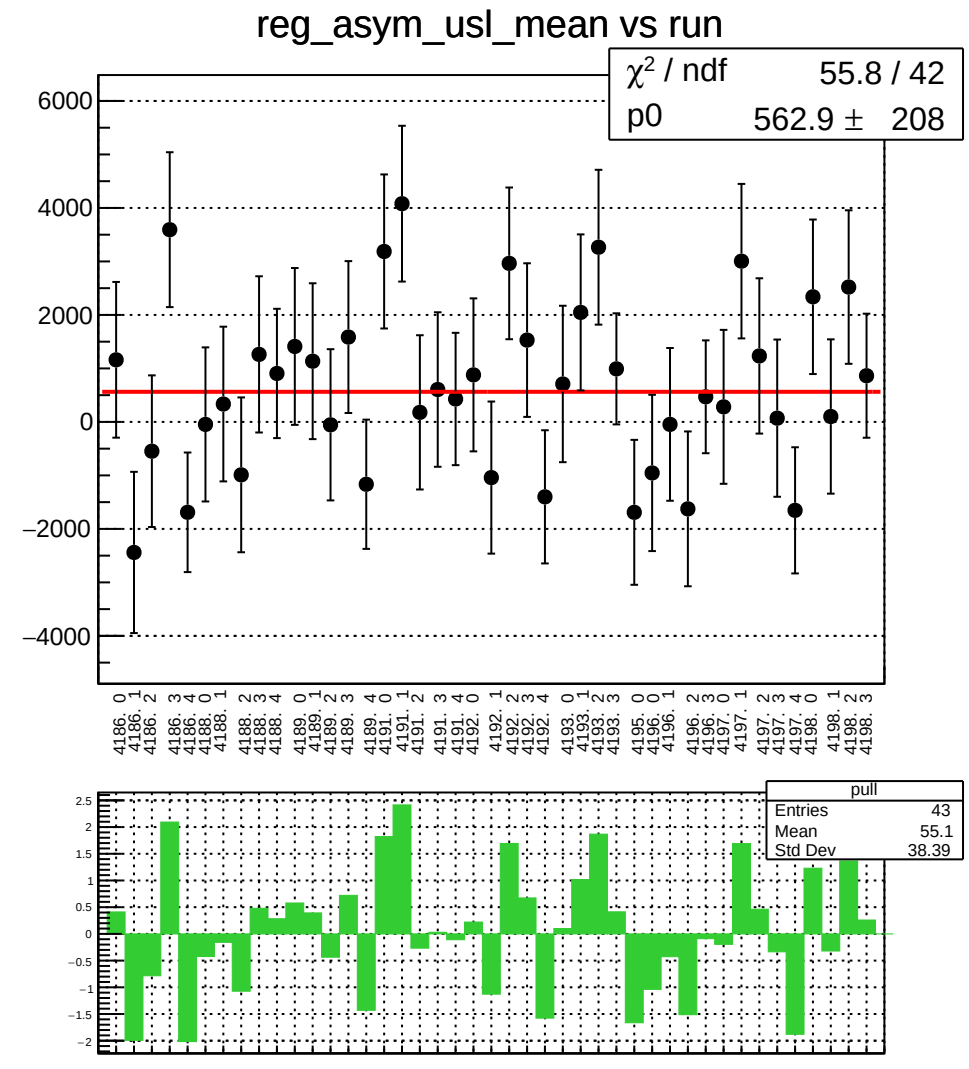

asym_ds_dd_correction_mean vs run
χ² / ndf 29.39 / 42
p0 671.1 ± 633.9
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −38.77
Std Dev 59.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.003971
Std Dev 0.8268
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

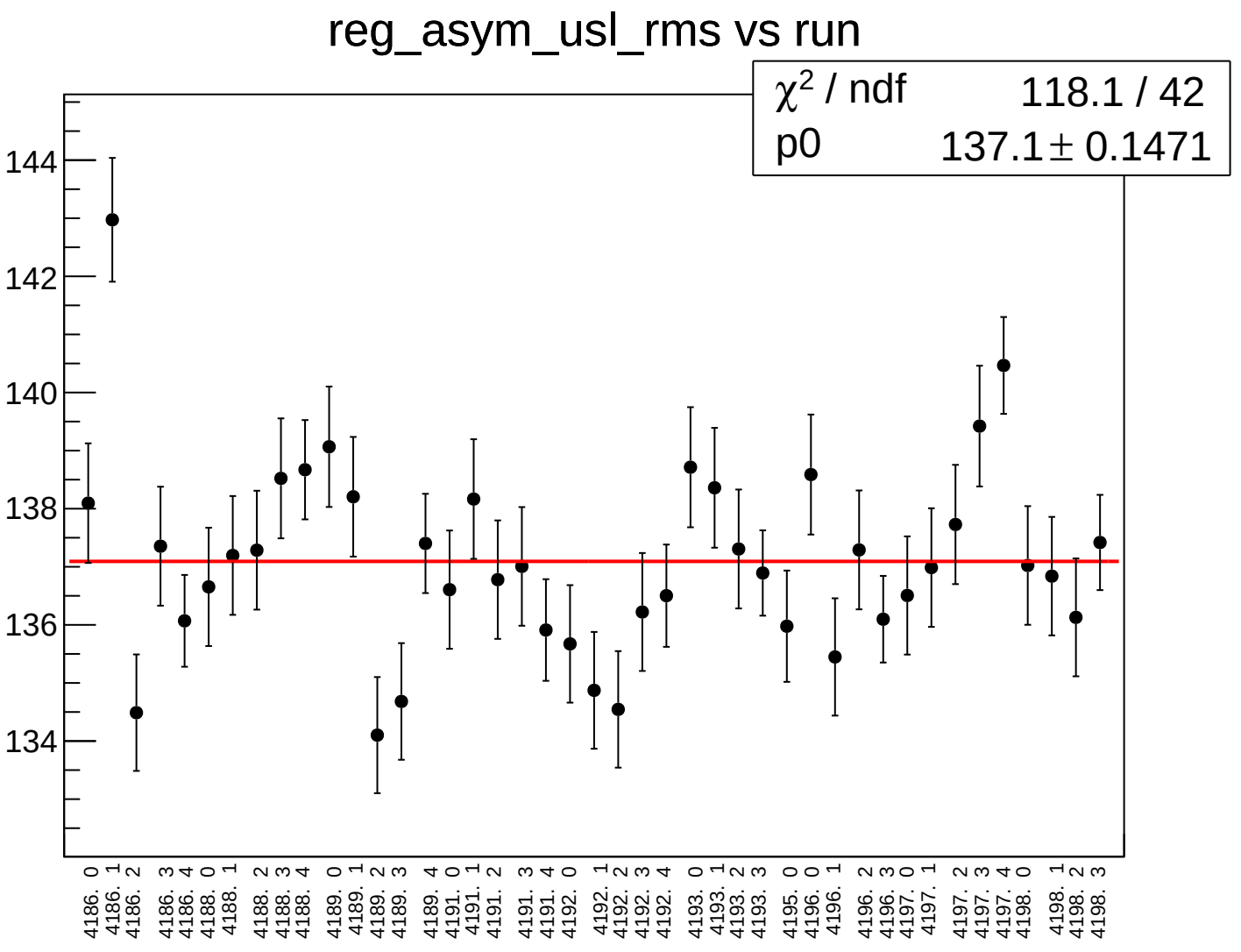

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1251 / 42
p0 417.4 ± 0.4482
440
430
420
410
400
390
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

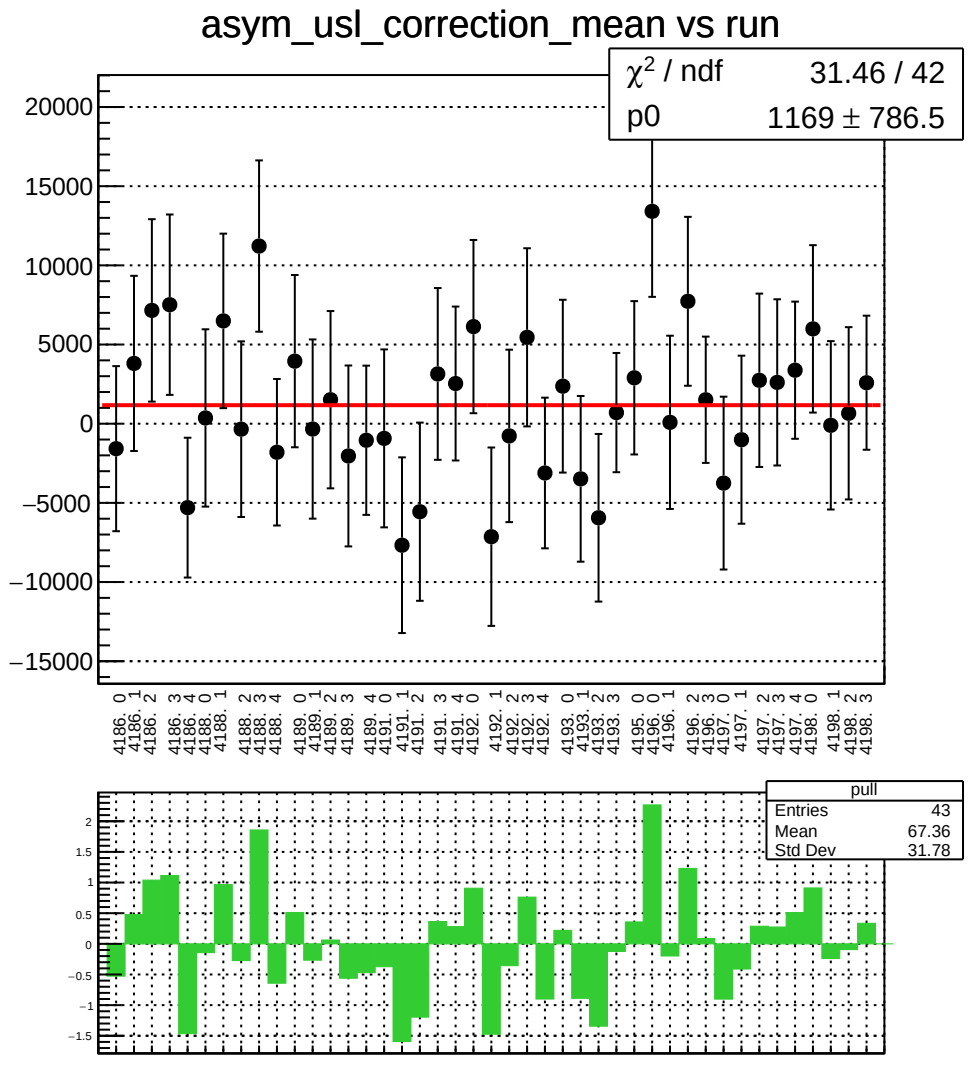

asym_ds_dd_mean vs run
χ² / ndf 31.95 / 42
p0 −528.6 ± 650.1
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 18.24
Std Dev 65.28
1.5
1
0.5
0
−0.5
−1
−1.5
−2

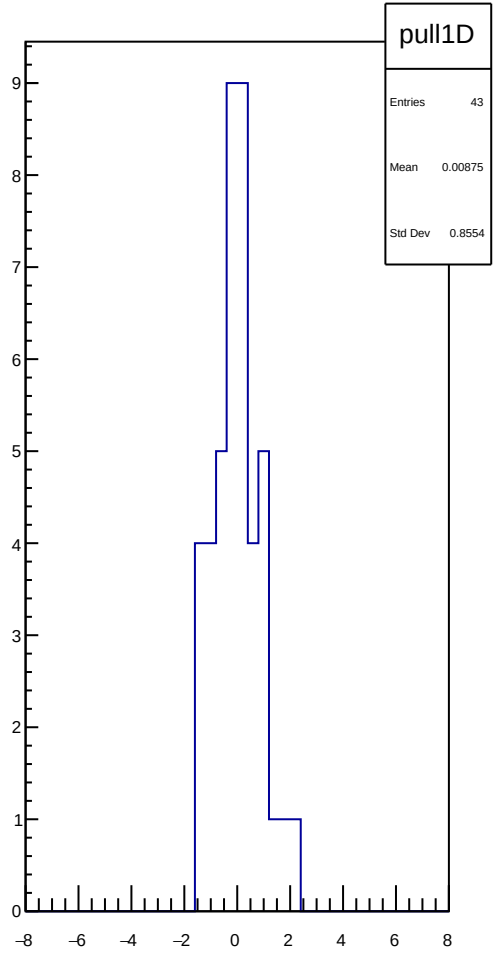

pull1D
Entries 43
Mean 0.007338
Std Dev 0.862
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

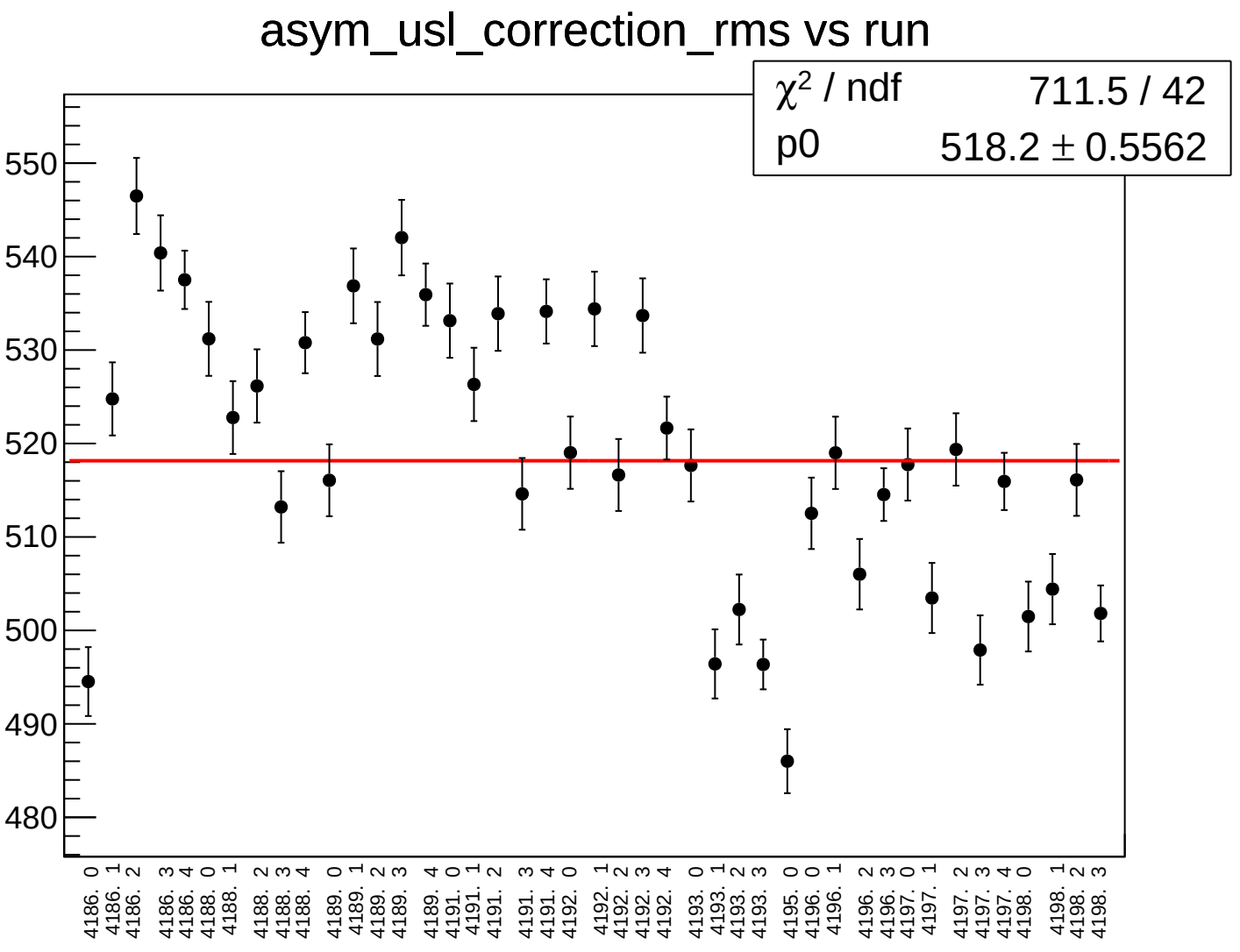

asym_ds_dd_rms vs run
χ² / ndf 1127 / 42
p0 428.1 ± 0.4597
450
440
430
420
410
400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

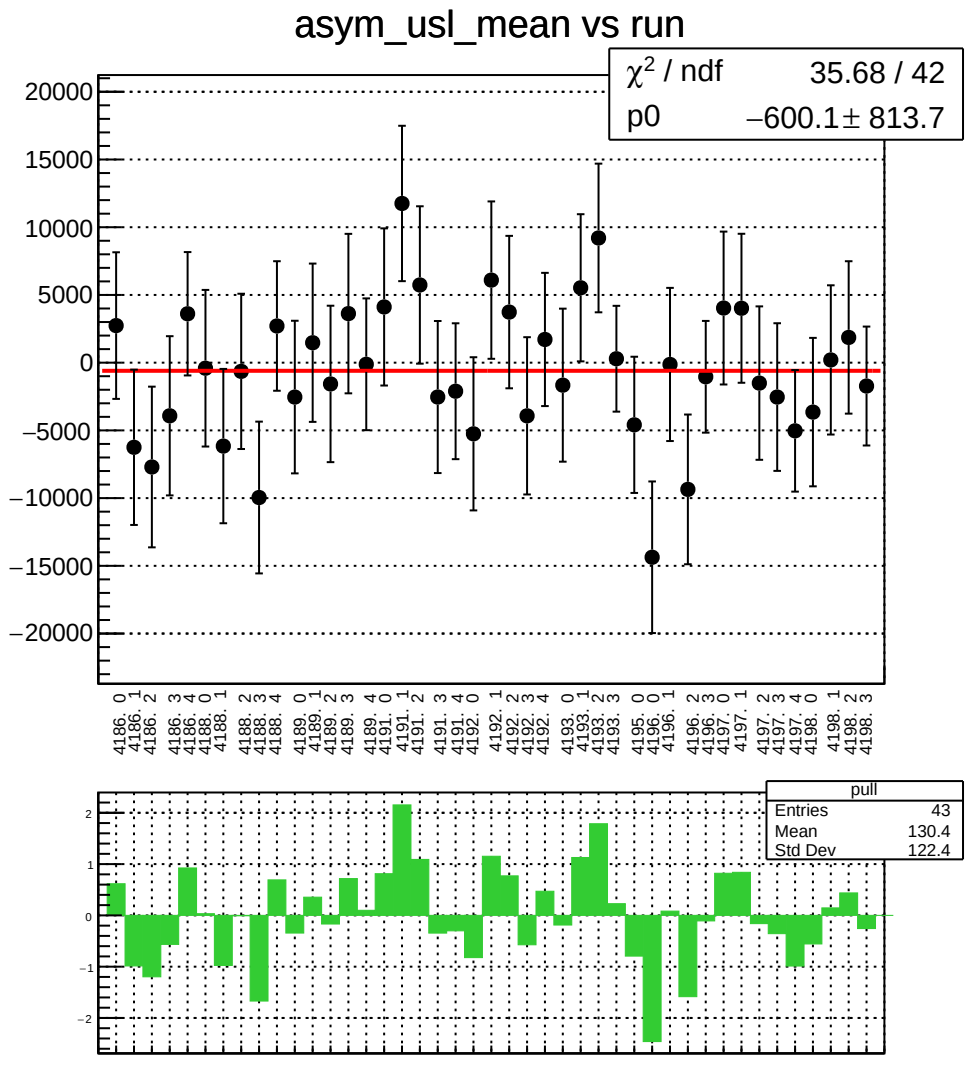

reg_asym_usl_mean vs run
χ² / ndf 55.8 / 42
p0 562.9 ± 208
6000
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 55.1
Std Dev 38.39
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03177
Std Dev 1.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

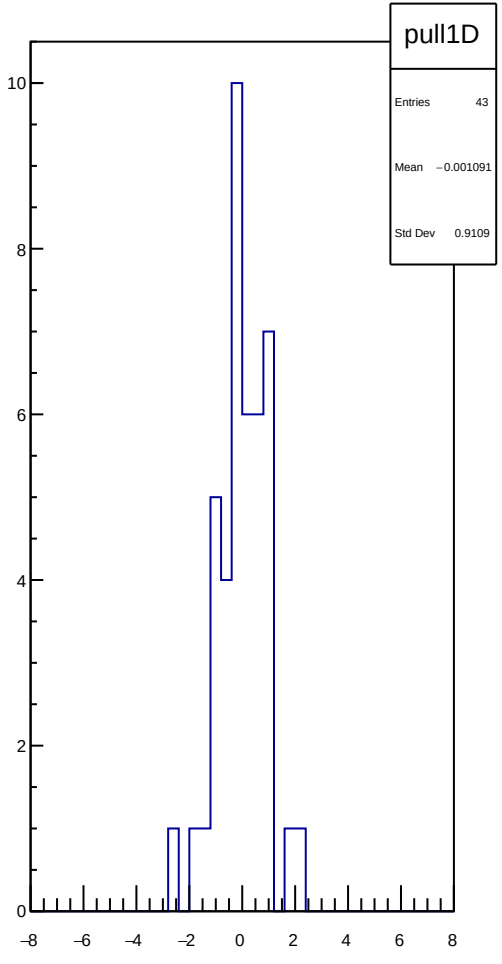

reg_asym_usl_rms vs run
χ^2 / ndf 118.1 / 42
p0 137.1 ± 0.1471
144
142
140
138
136
134
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

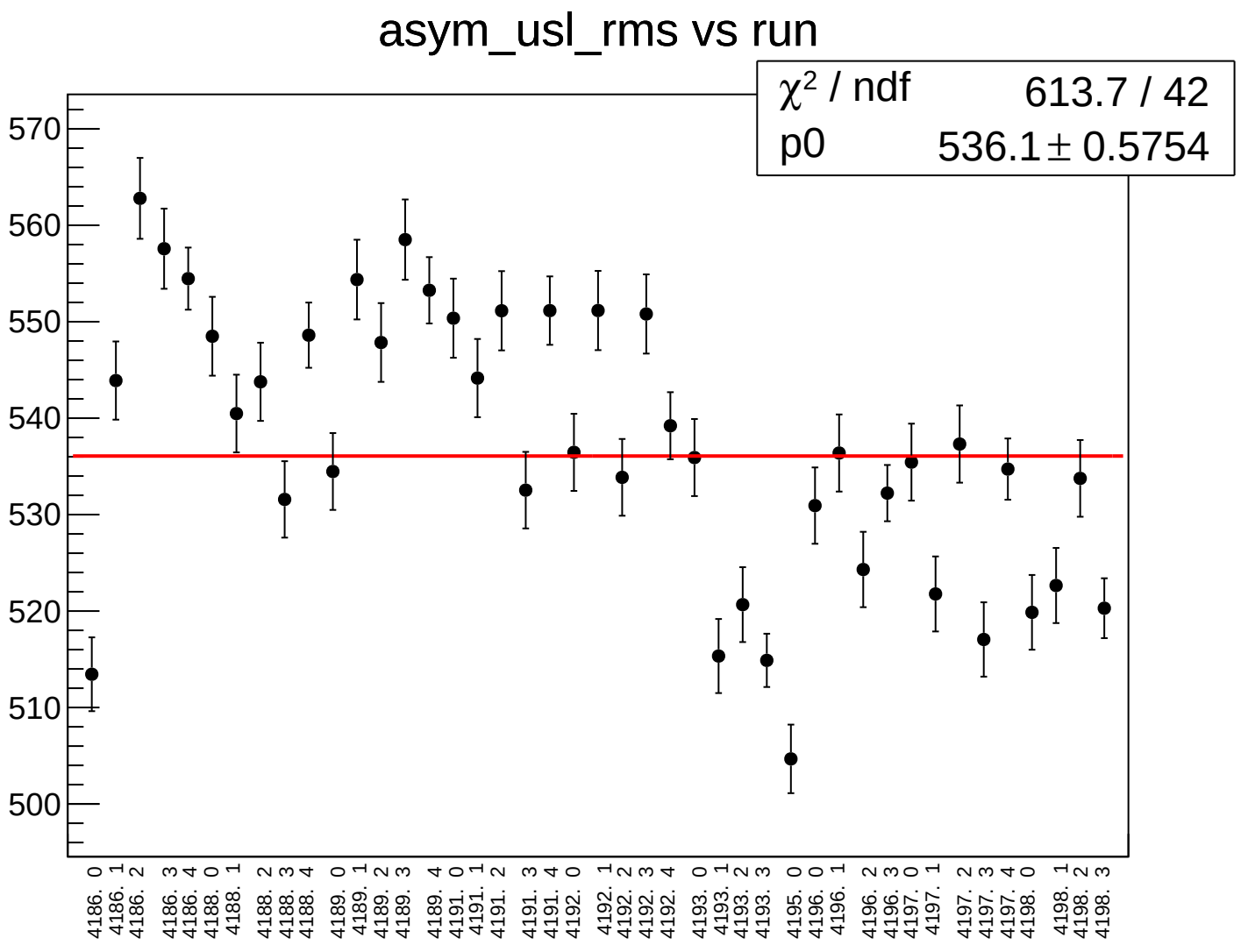

asym_usl_correction_mean vs run
χ² / ndf 31.46 / 42
p0 1169 ± 786.5
20000
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 67.36
Std Dev 31.78
2
1.5
1
0.5
0
−0.5
−1
−1.5

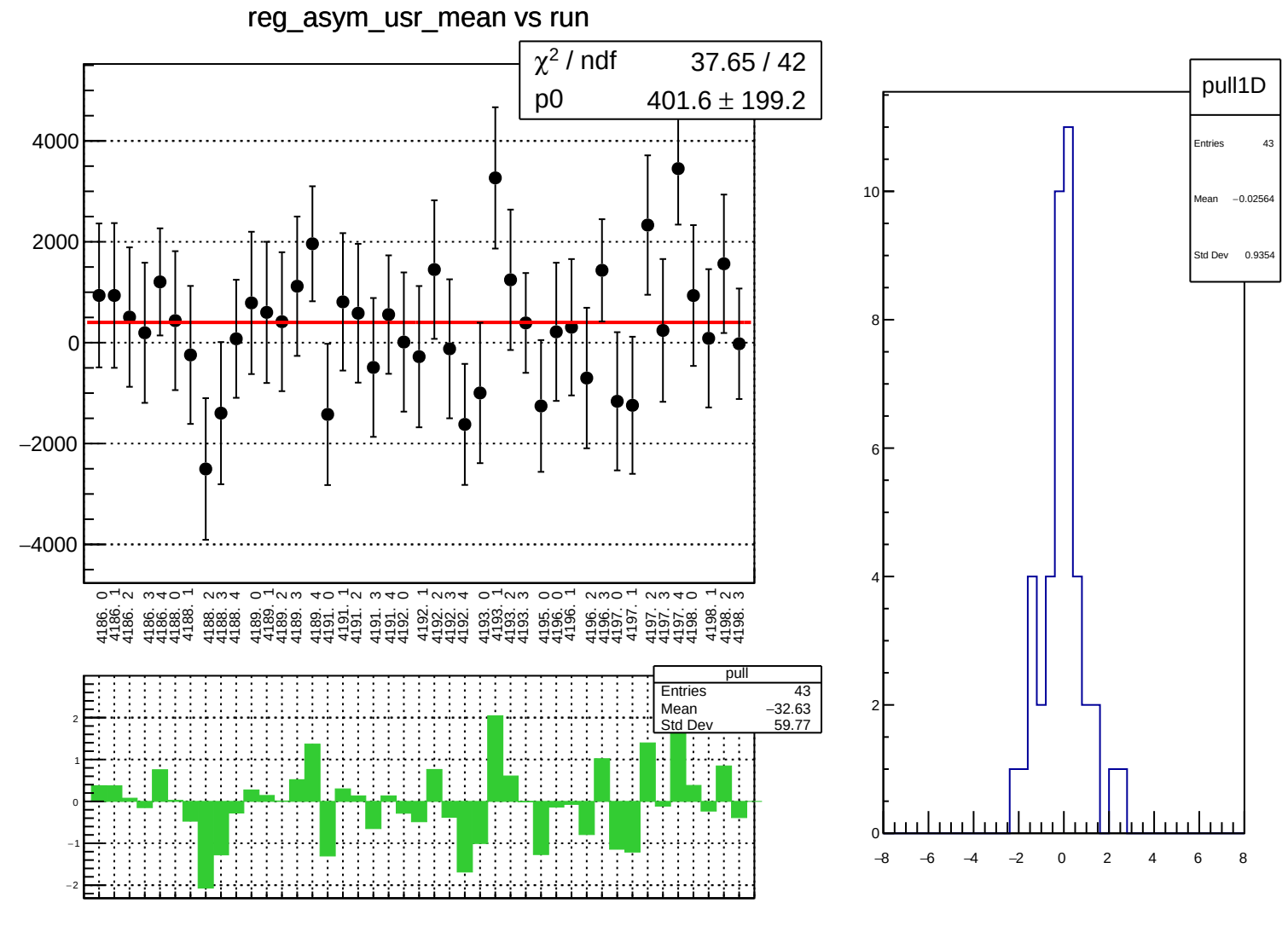

pull1D
Entries 43
Mean 0.00875
Std Dev 0.8554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

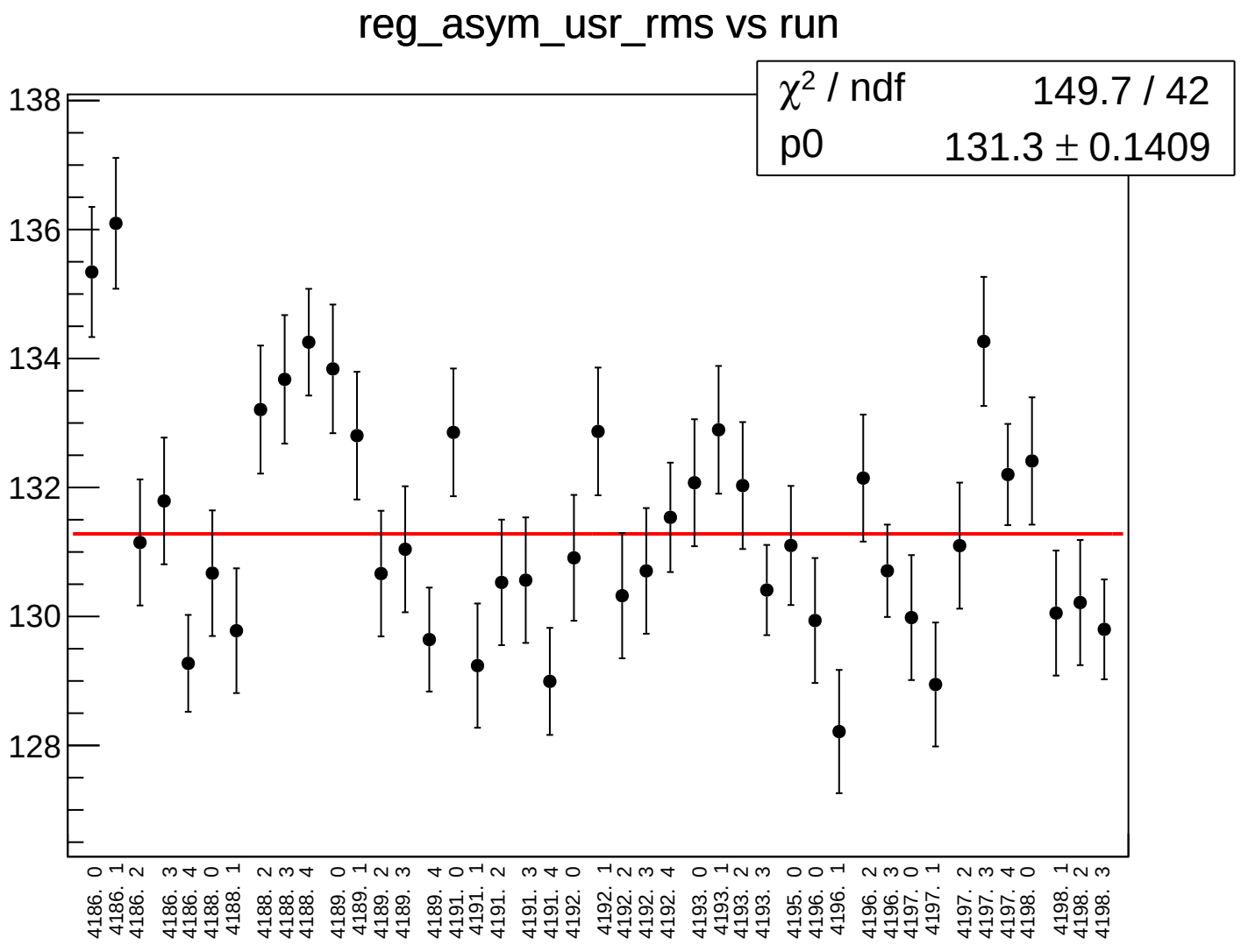

asym_usl_correction_rms vs run
χ² / ndf 711.5 / 42
p0 518.2 ± 0.5562
550
540
530
520
510
500
490
480
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

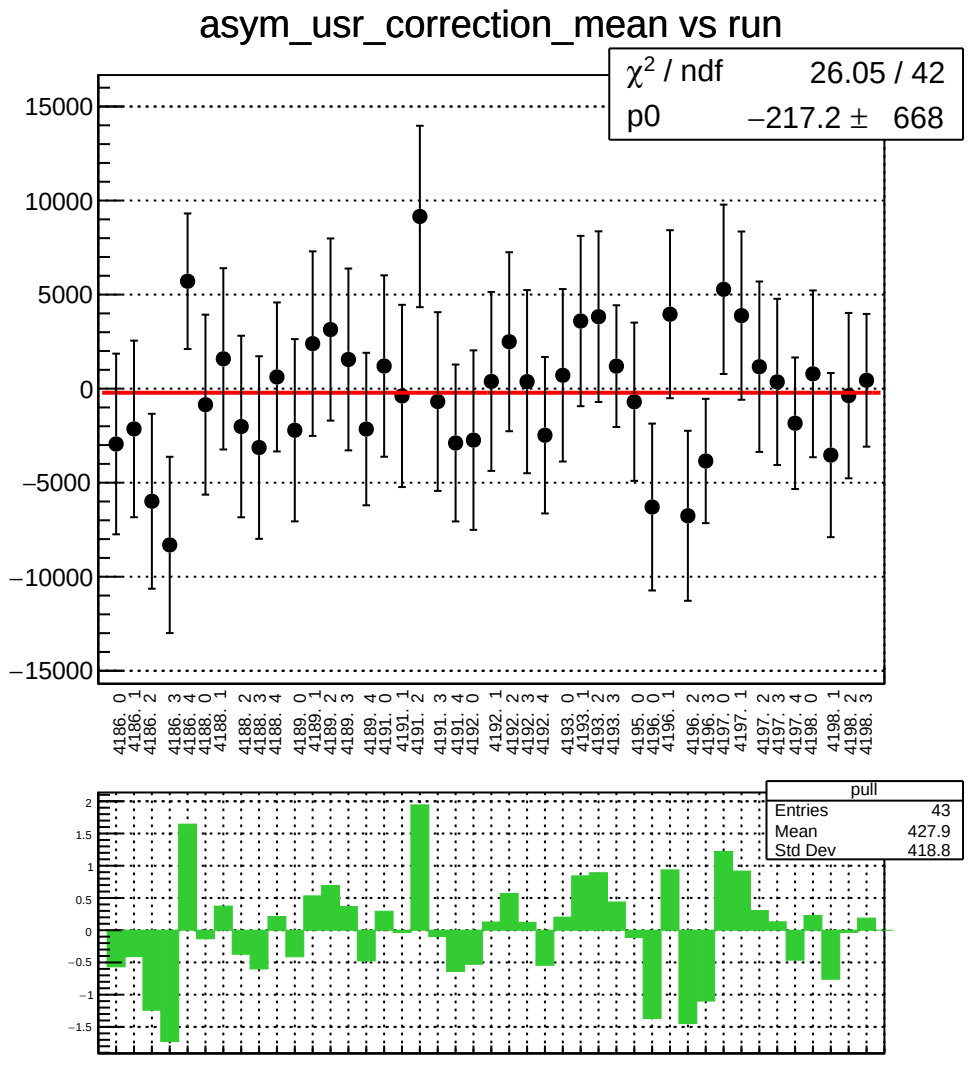

asym_usl_mean vs run
χ² / ndf 35.68 / 42
p0 −600.1 ± 813.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 130.4
Std Dev 122.4
2
1
0
−1
−2

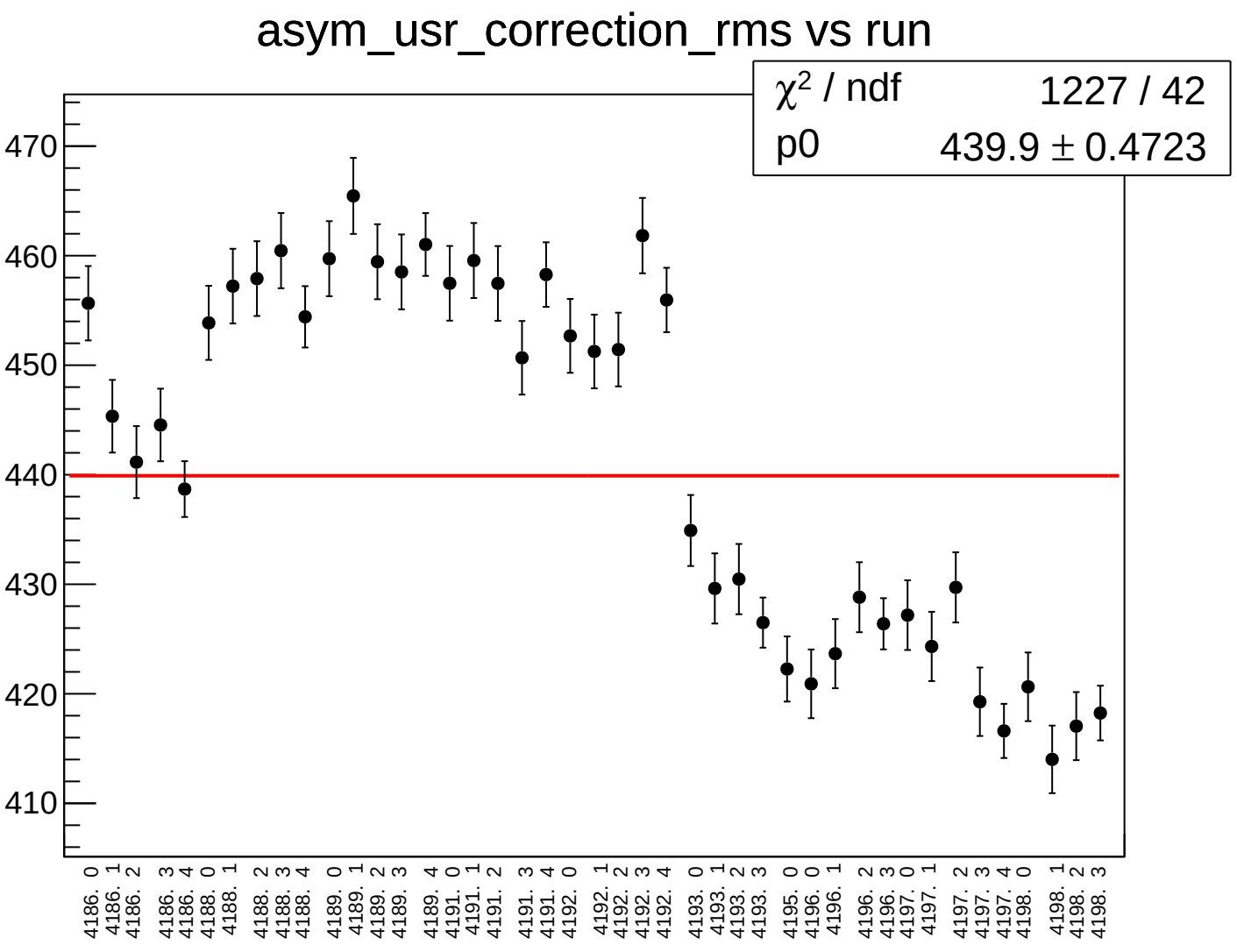

pull1D
Entries 43
Mean −0.001091
Std Dev 0.9109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

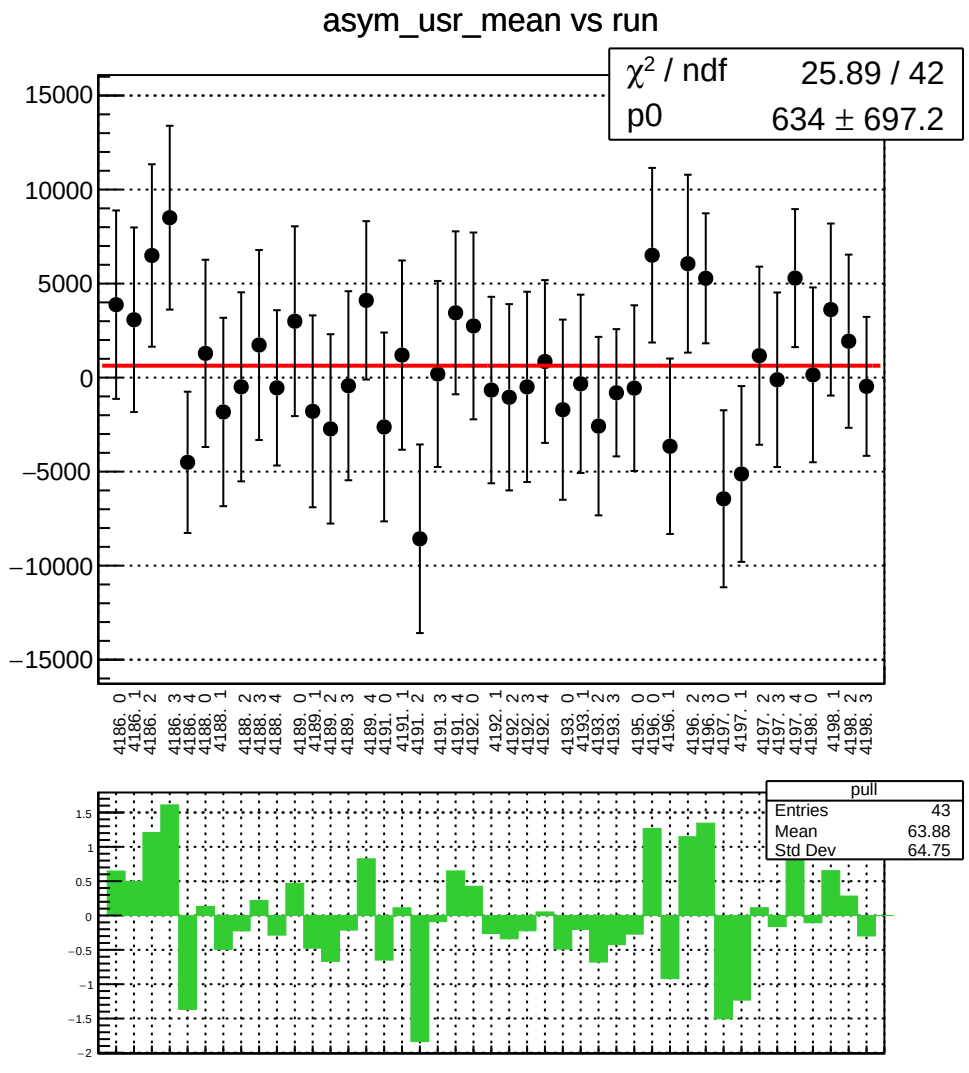

asym_usl_rms vs run
χ² / ndf 613.7 / 42
p0 536.1 ± 0.5754
570
560
550
540
530
520
510
500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

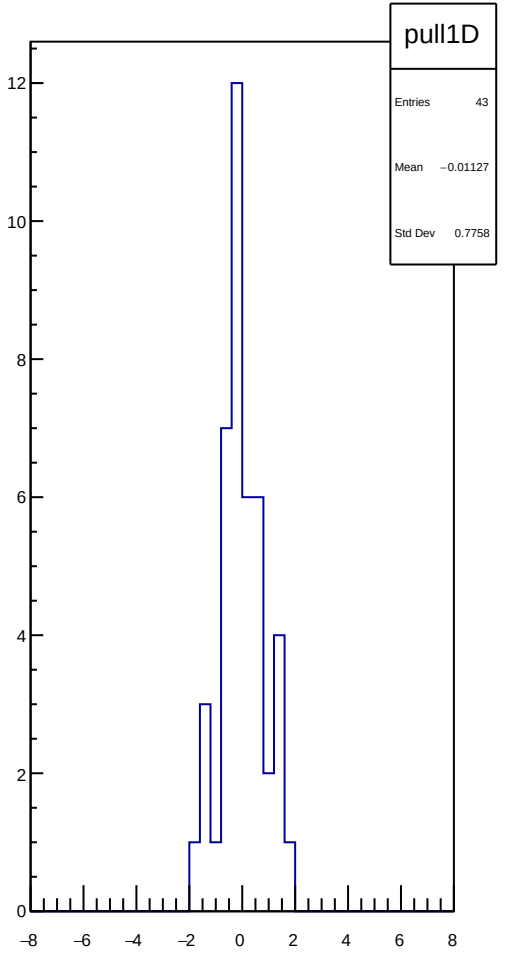

reg_asym_usr_mean vs run
χ² / ndf 37.65 / 42
p0 401.6 ± 199.2
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −32.63
Std Dev 59.77
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02564
Std Dev 0.9354
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

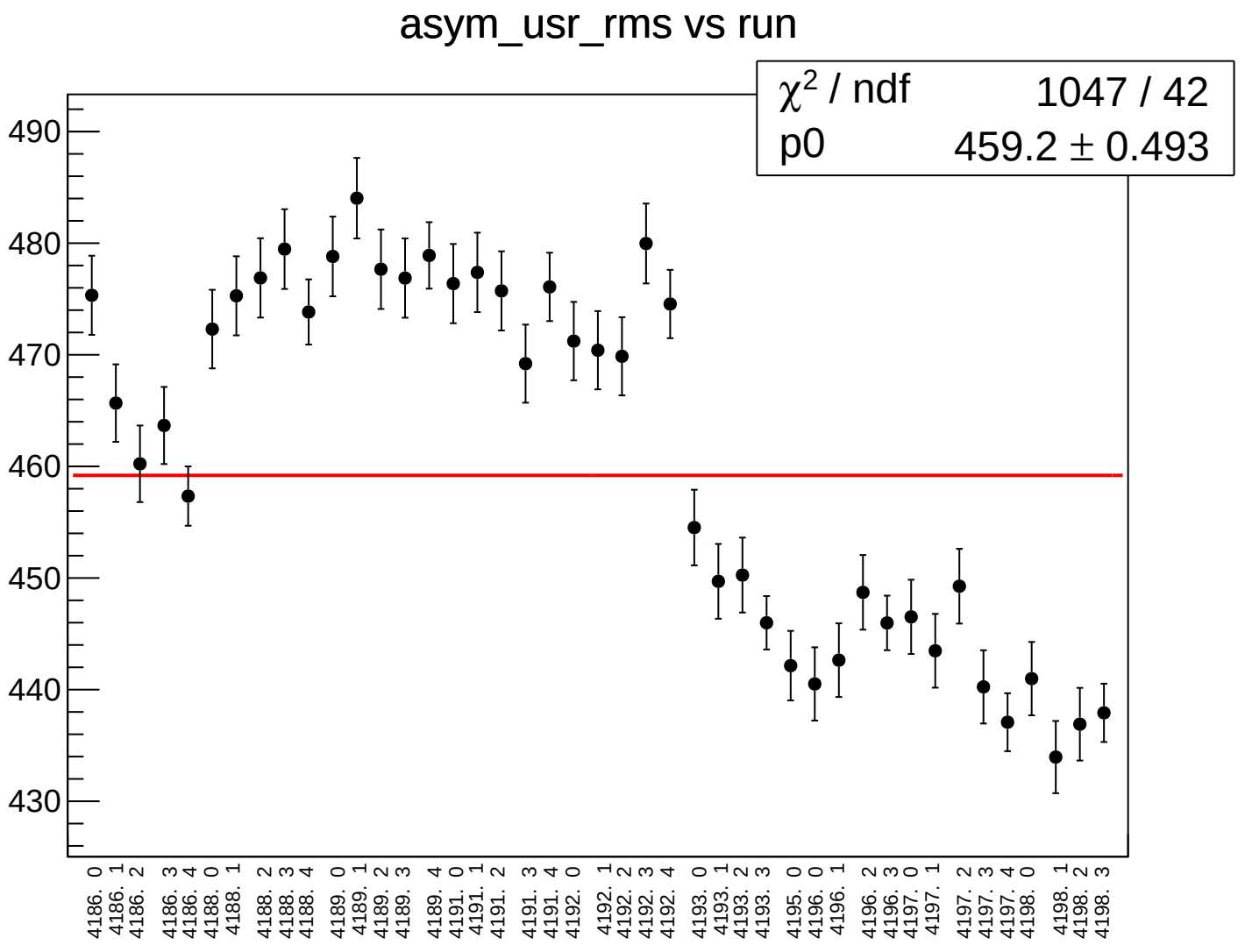

reg_asym_usr_rms vs run
χ² / ndf 149.7 / 42
p0 131.3 ± 0.1409
138
136
134
132
130
128
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

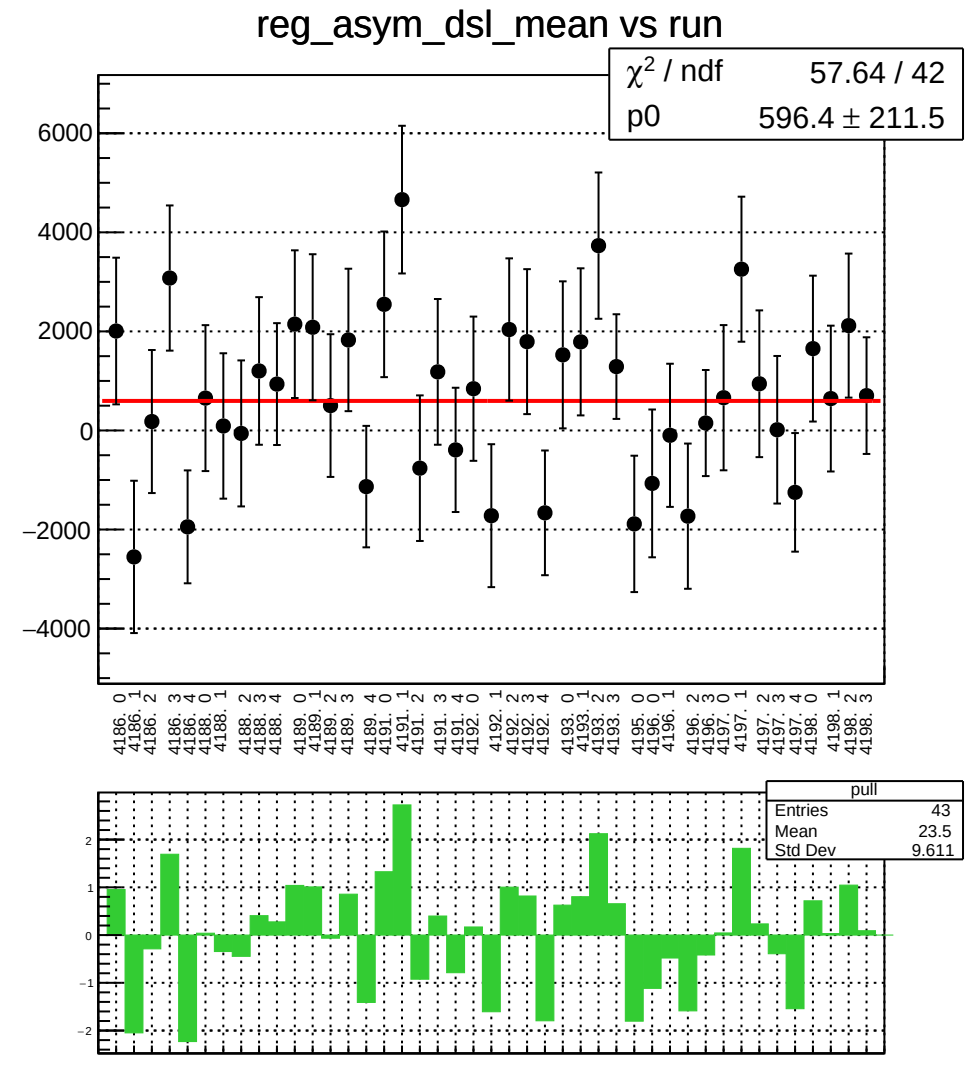

asym_usr_correction_mean vs run
χ² / ndf 26.05 / 42
p0 −217.2 ± 668
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 427.9
Std Dev 418.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.002282
Std Dev 0.7783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

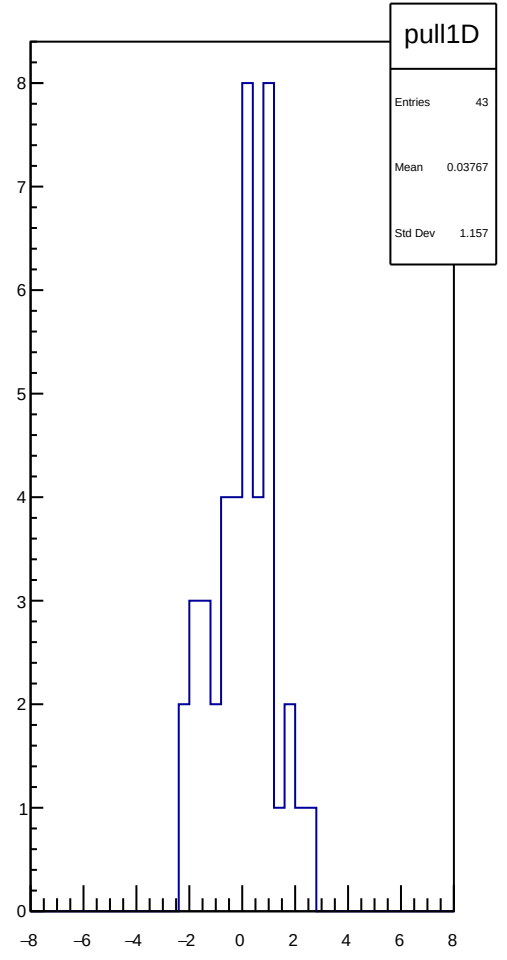

asym_usr_correction_rms vs run
χ² / ndf 1227 / 42
p0 439.9 ± 0.4723
470
460
450
440
430
420
410
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

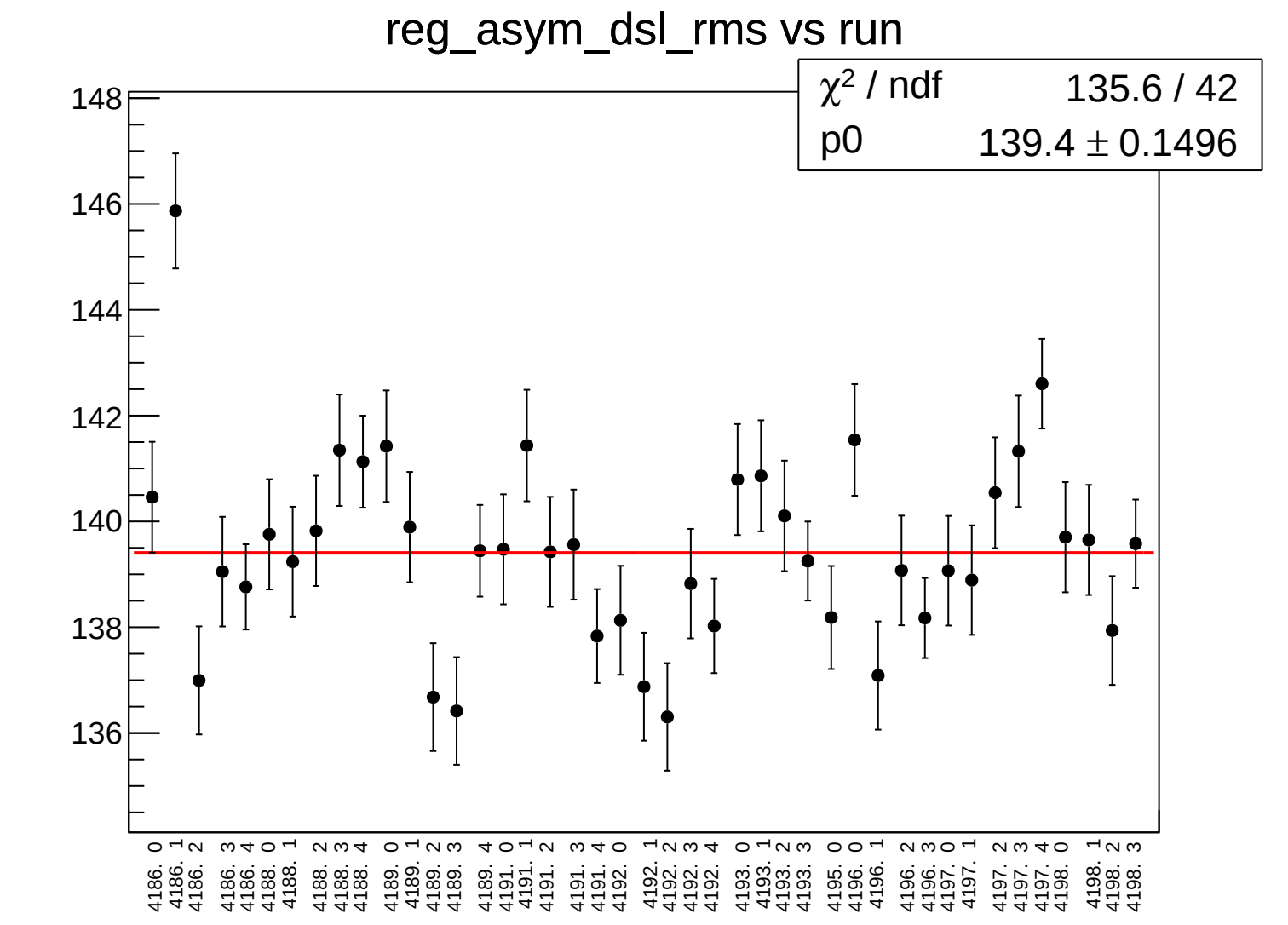

asym_usr_mean vs run
χ² / ndf 25.89 / 42
p0 634 ± 697.2
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 63.88
Std Dev 64.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

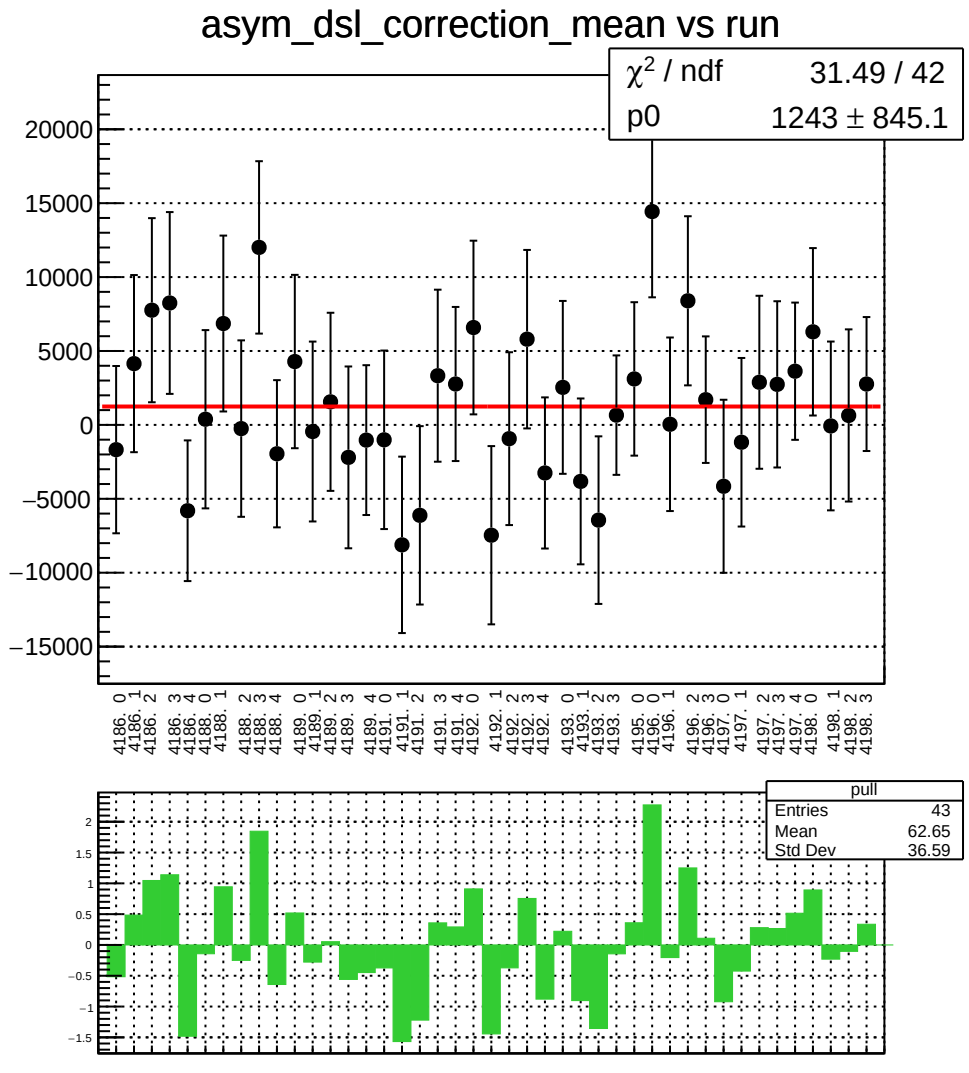

pull1D
Entries 43
Mean −0.01127
Std Dev 0.7758
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

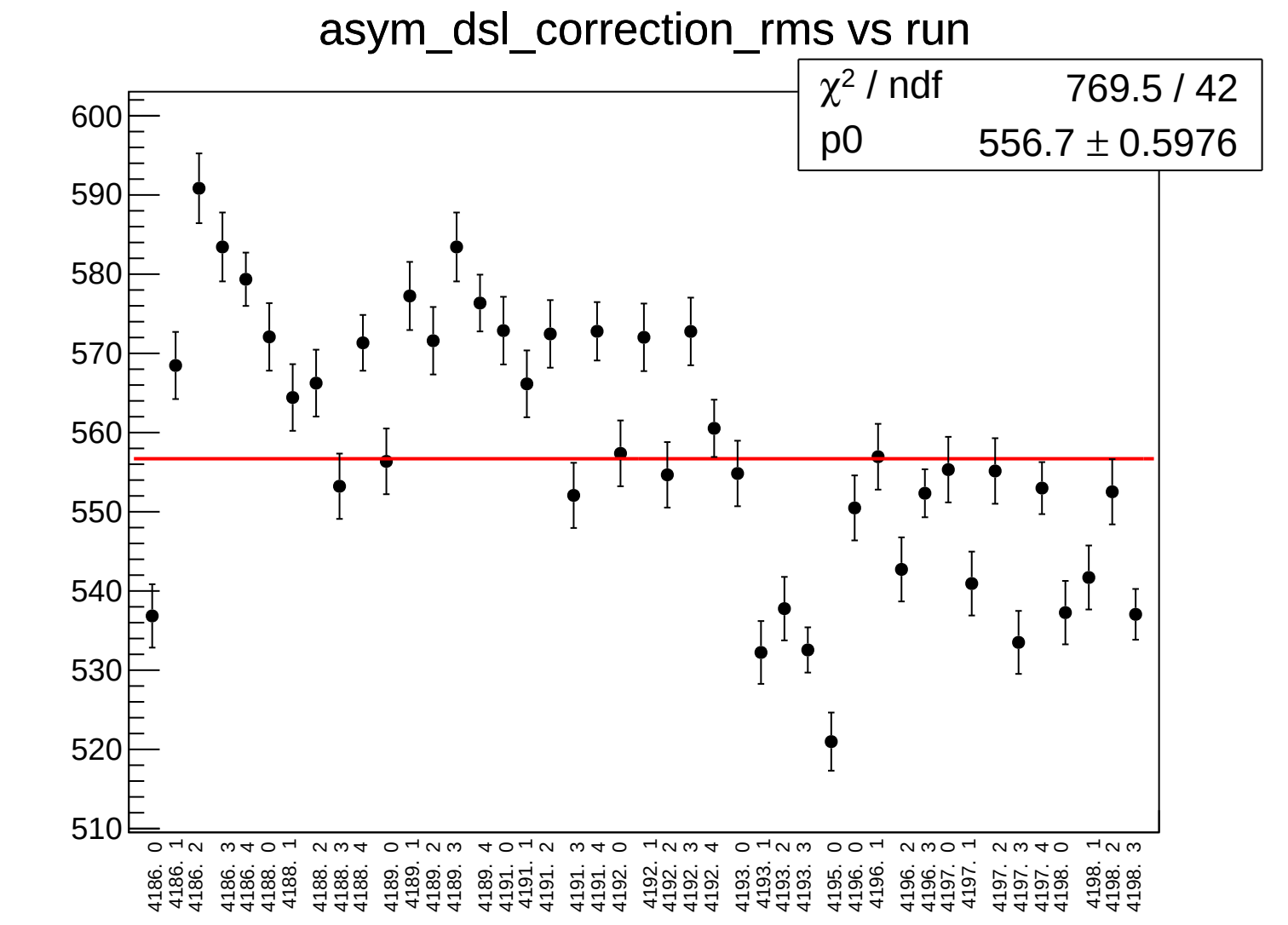

asym_usr_rms vs run
χ² / ndf 1047 / 42
p0 459.2 ± 0.493
490
480
470
460
450
440
430
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

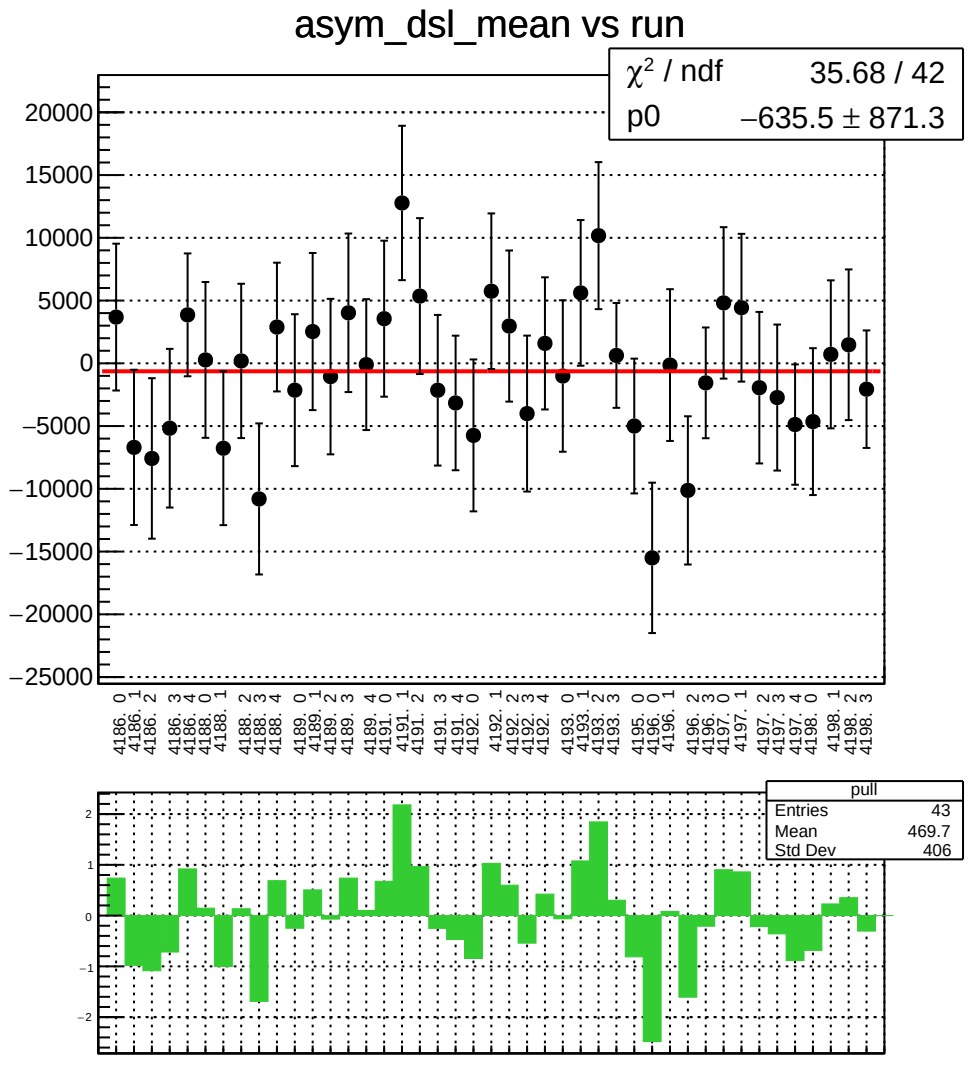

reg_asym_dsl_mean vs run
χ^2 / ndf 57.64 / 42
p0 596.4 ± 211.5
6000
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 23.5
Std Dev 9.611
2
1
0
−1
−2

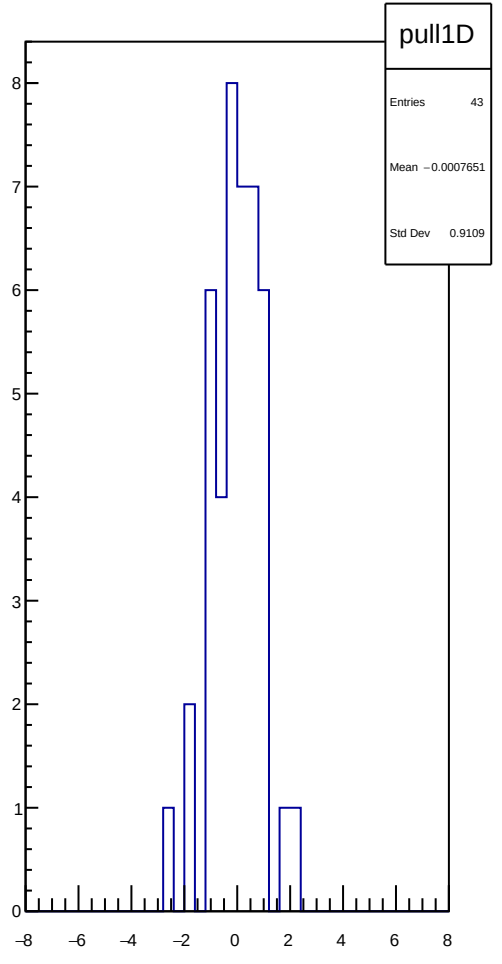

pull1D
Entries 43
Mean 0.03767
Std Dev 1.157
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

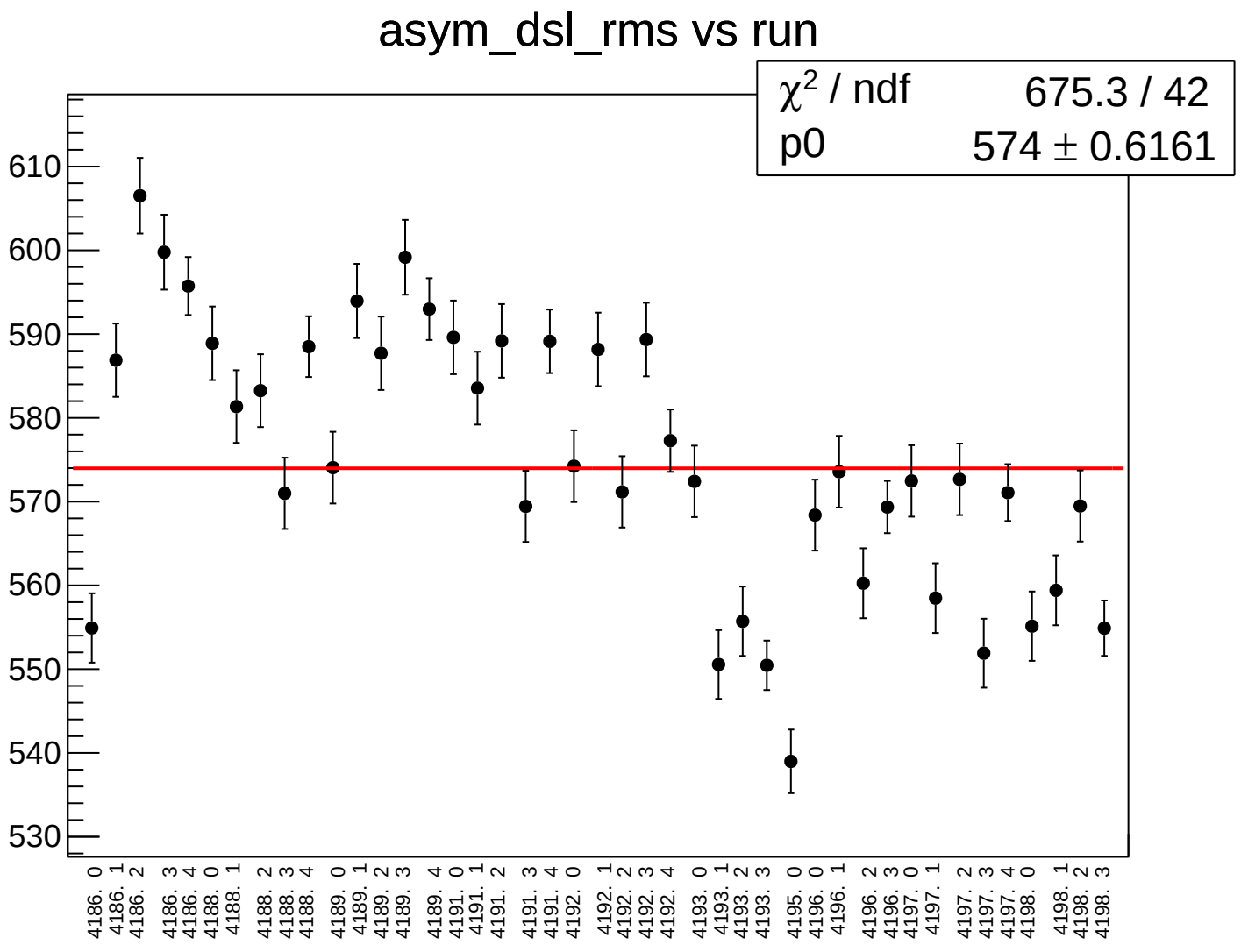

reg_asym_dsl_rms vs run
χ² / ndf 135.6 / 42
p0 139.4 ± 0.1496
148
146
144
142
140
138
136
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

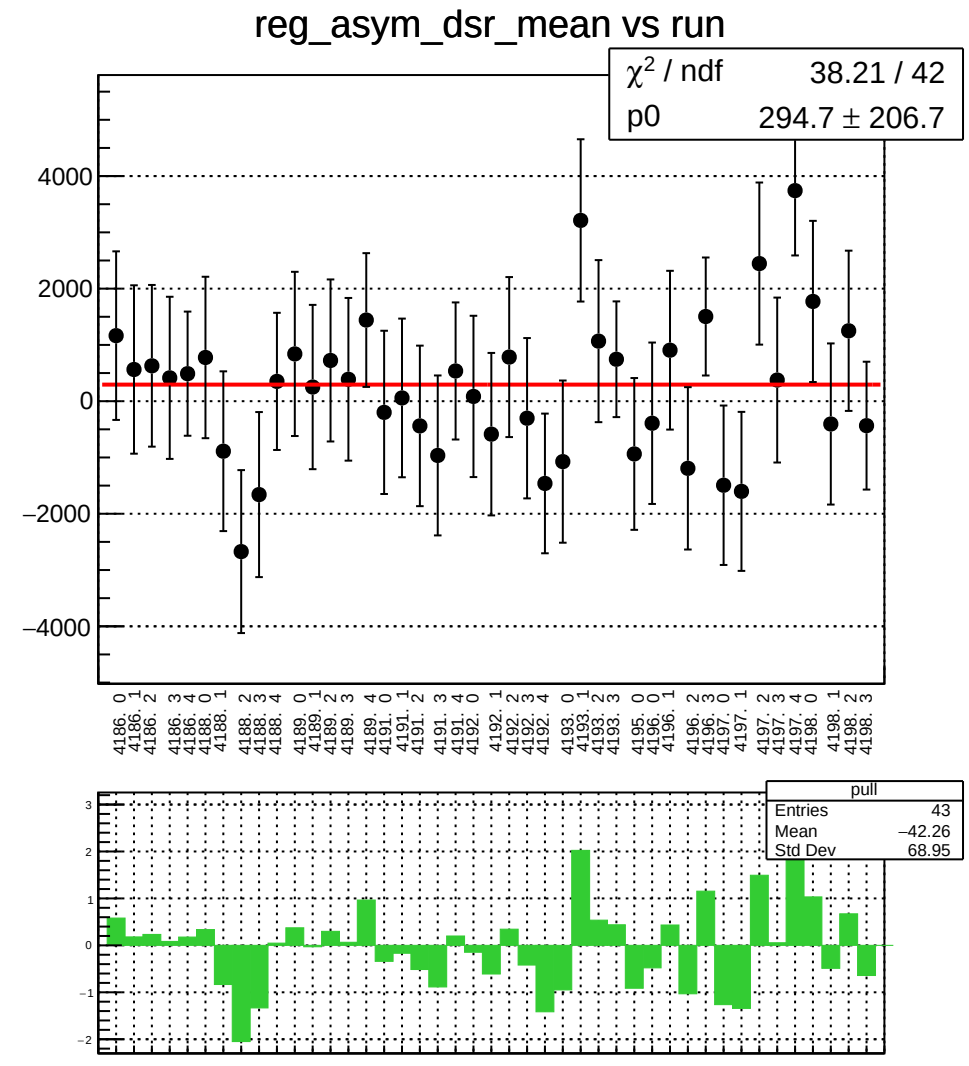

asym_dsl_correction_mean vs run
χ² / ndf 31.49 / 42
p0 1243 ± 845.1
20000
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 62.65
Std Dev 36.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008995
Std Dev 0.8557
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

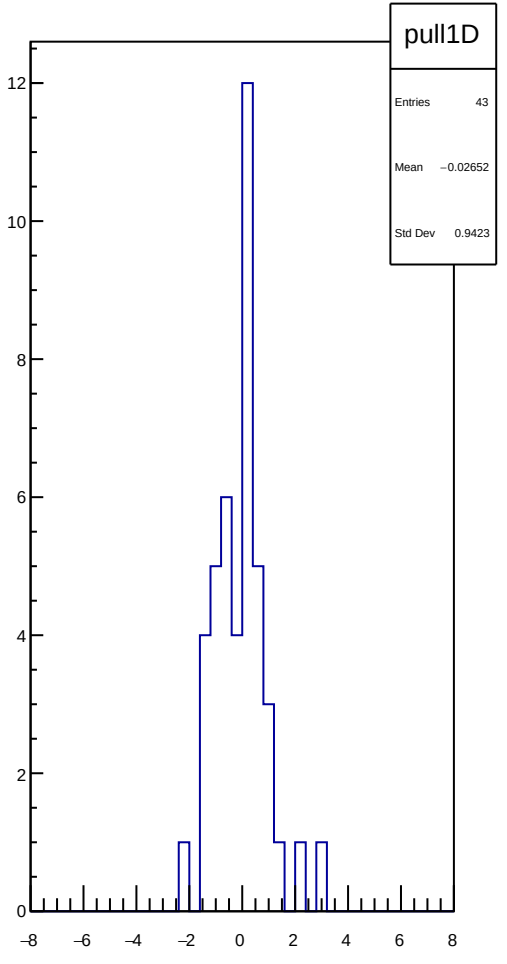

asym_dsl_correction_rms vs run
χ² / ndf 769.5 / 42
p0 556.7 ± 0.5976
600
590
580
570
560
550
540
530
520
510
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

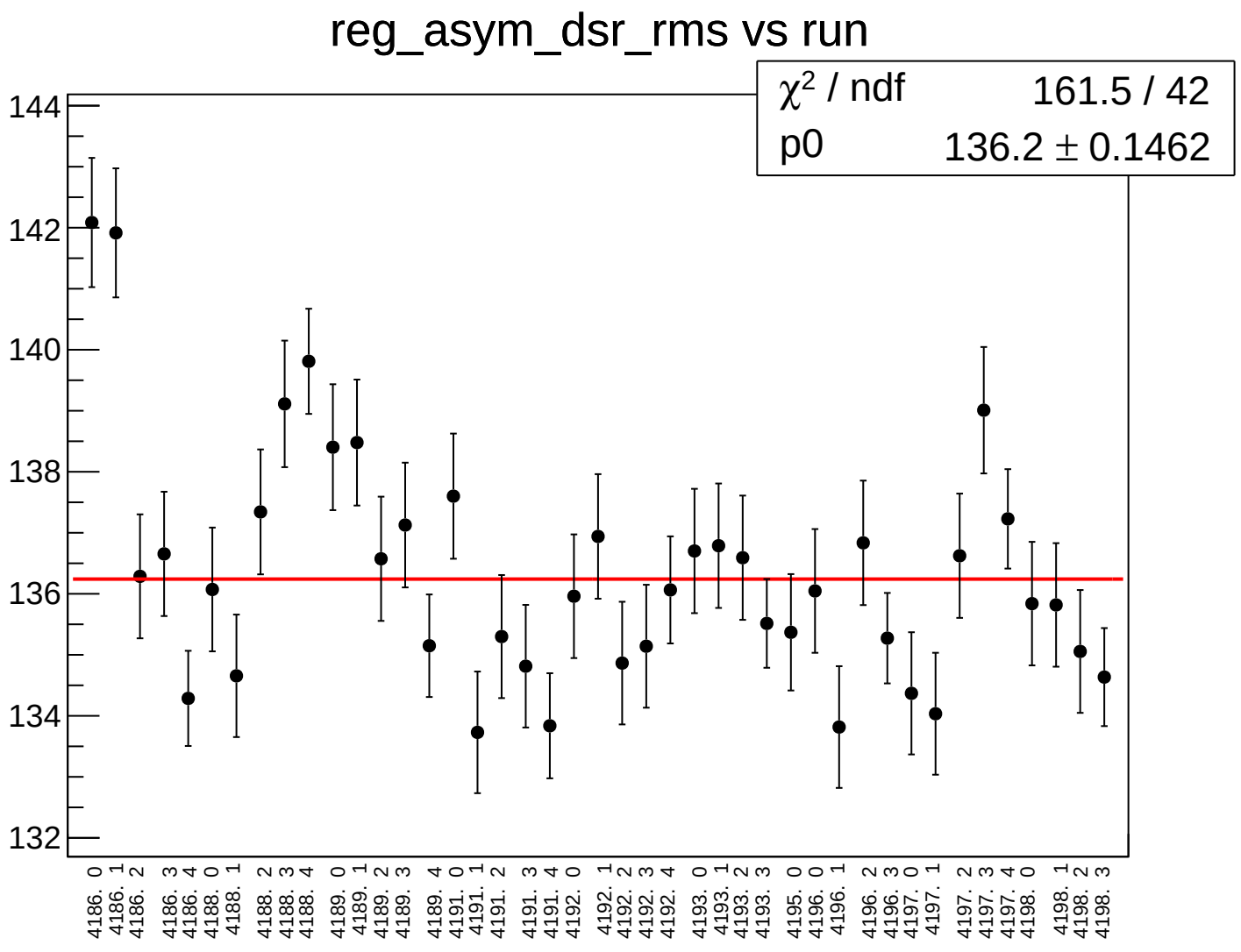

asym_dsl_mean vs run
χ² / ndf 35.68 / 42
p0 −635.5 ± 871.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 469.7
Std Dev 406
2
1
0
−1
−2

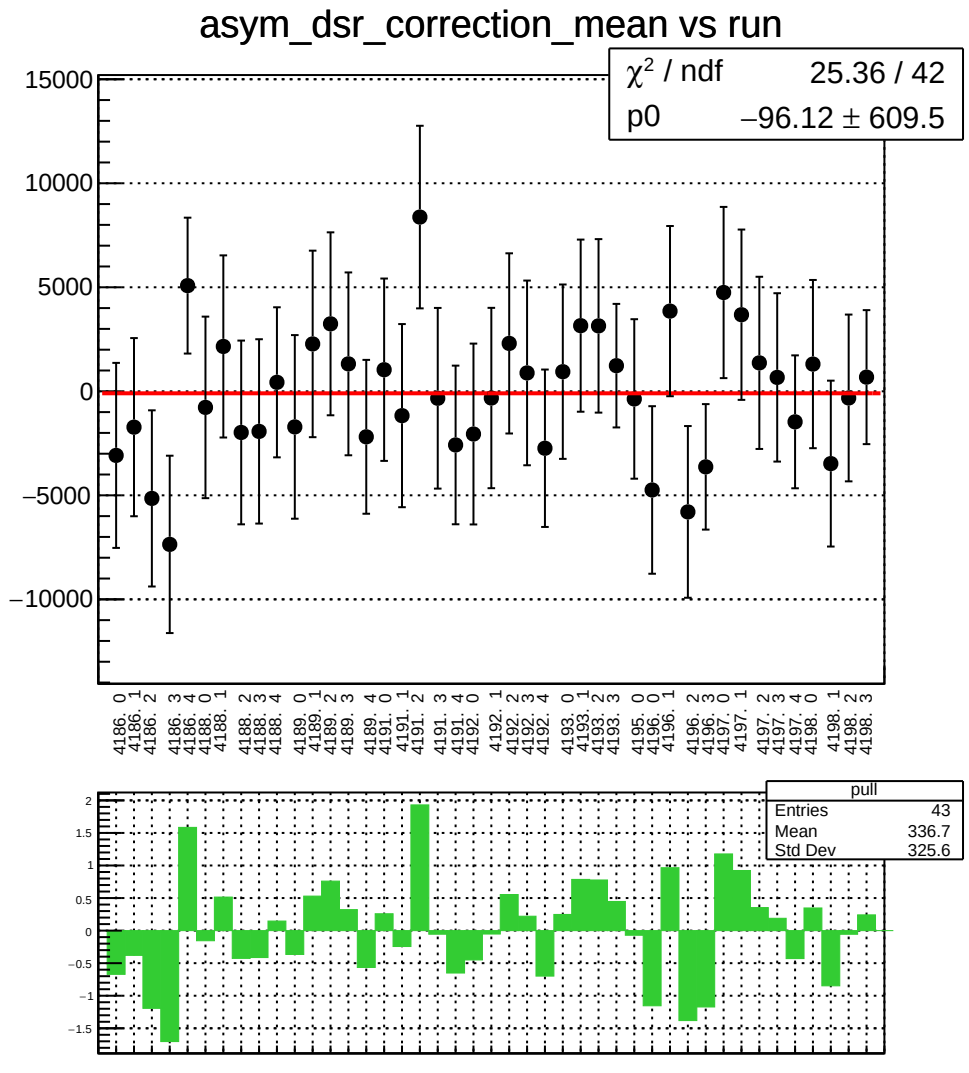

pull1D
Entries 43
Mean −0.0007651
Std Dev 0.9109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

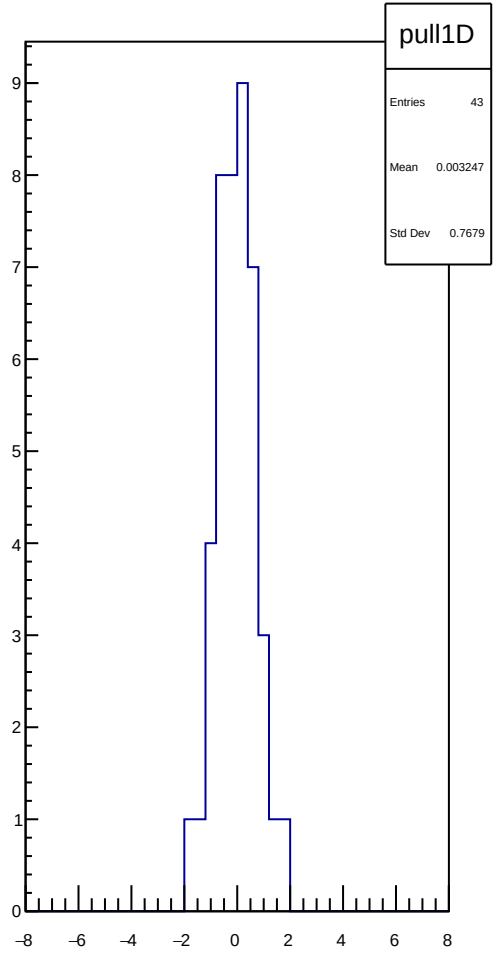

asym_dsl_rms vs run
χ² / ndf 675.3 / 42
p0 574 ± 0.6161
610
600
590
580
570
560
550
540
530
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

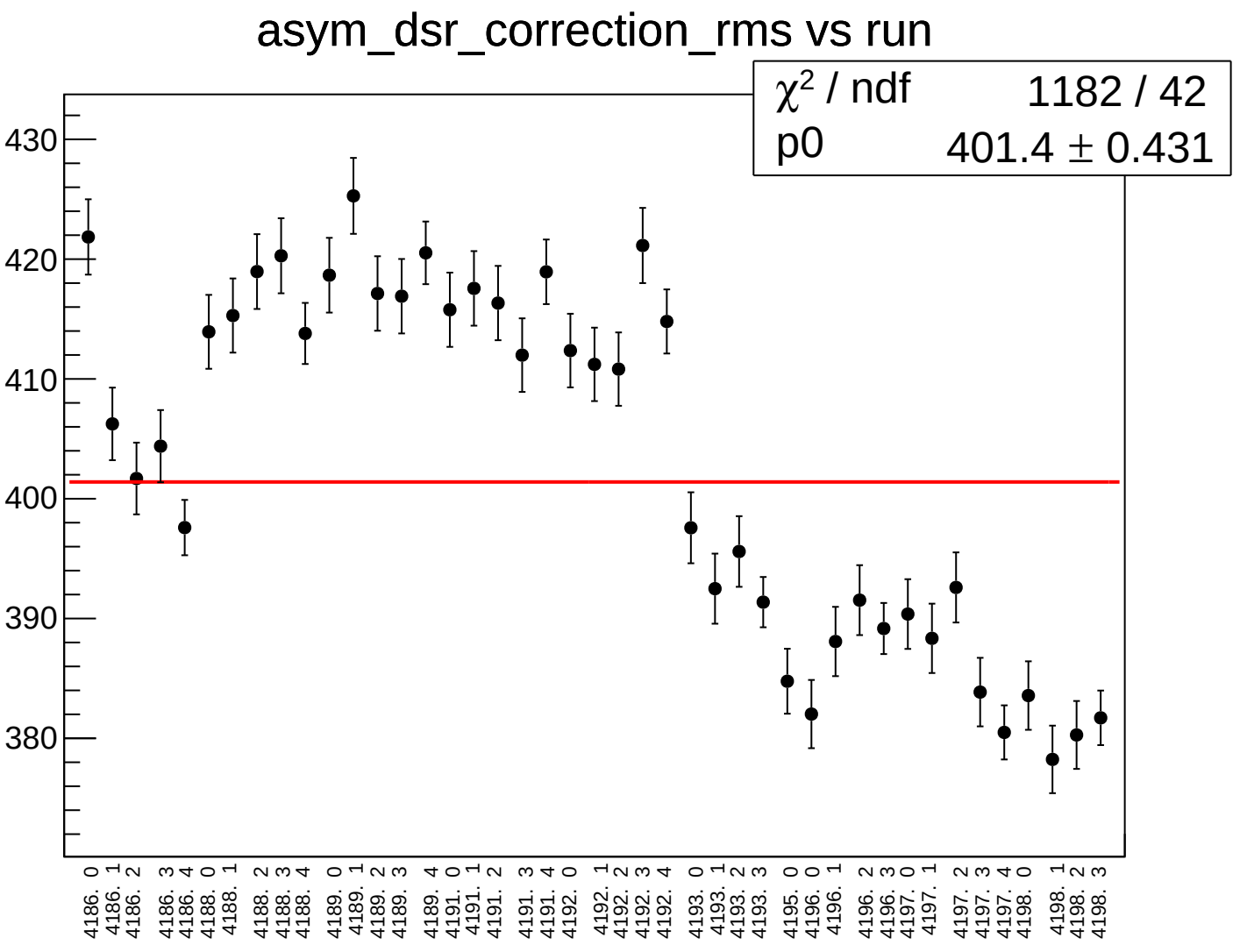

reg_asym_dsr_mean vs run
χ² / ndf 38.21 / 42
p0 294.7 ± 206.7
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −42.26
Std Dev 68.95
3
2
1
0
−1
−2

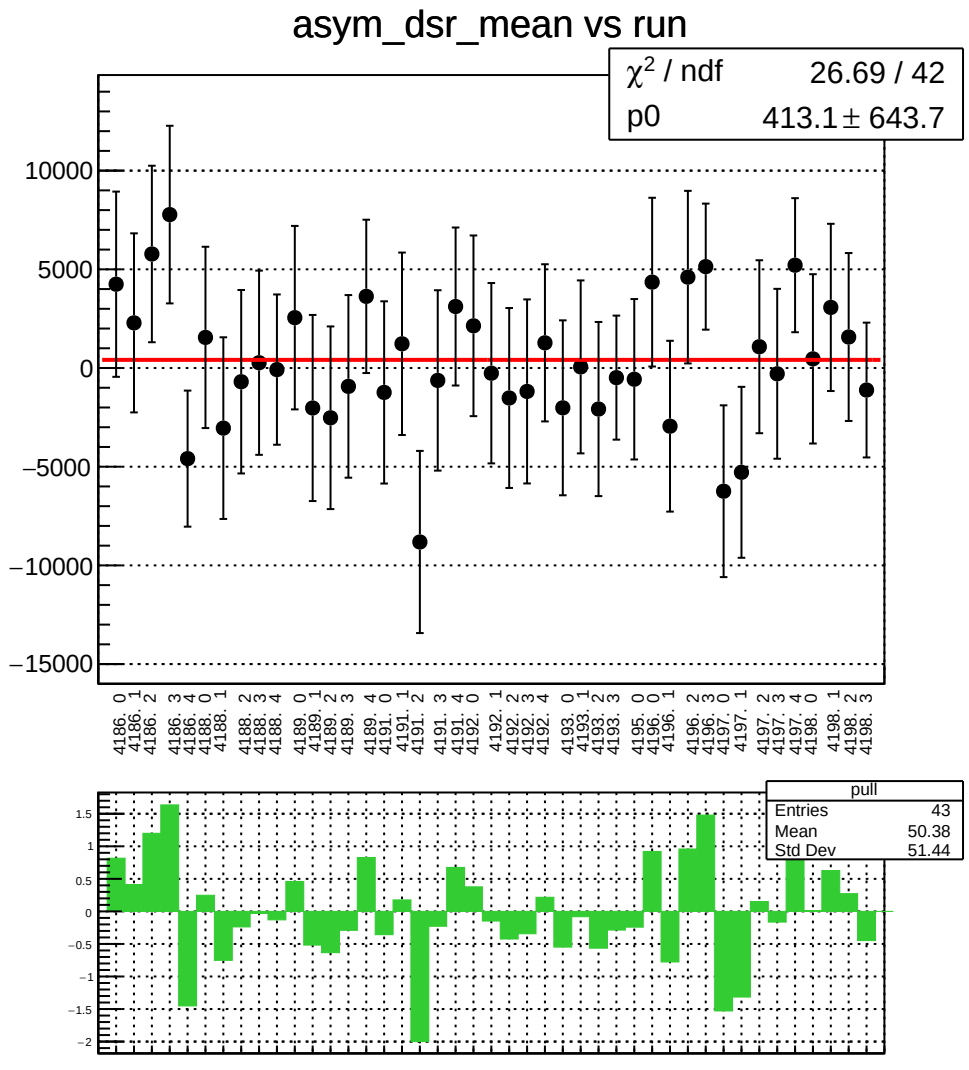

pull1D
Entries 43
Mean −0.02652
Std Dev 0.9423
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

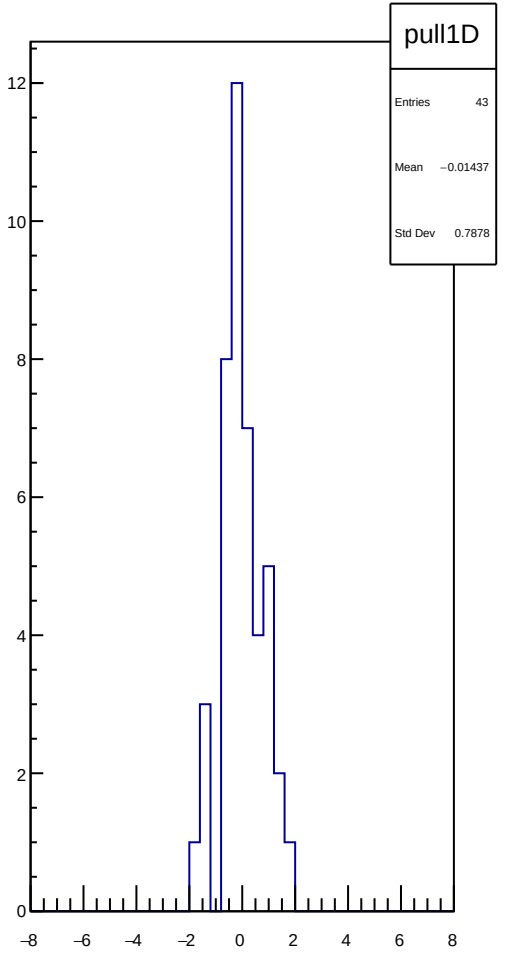

reg_asym_dsr_rms vs run
χ² / ndf 161.5 / 42
p0 136.2 ± 0.1462
144
142
140
138
136
134
132
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

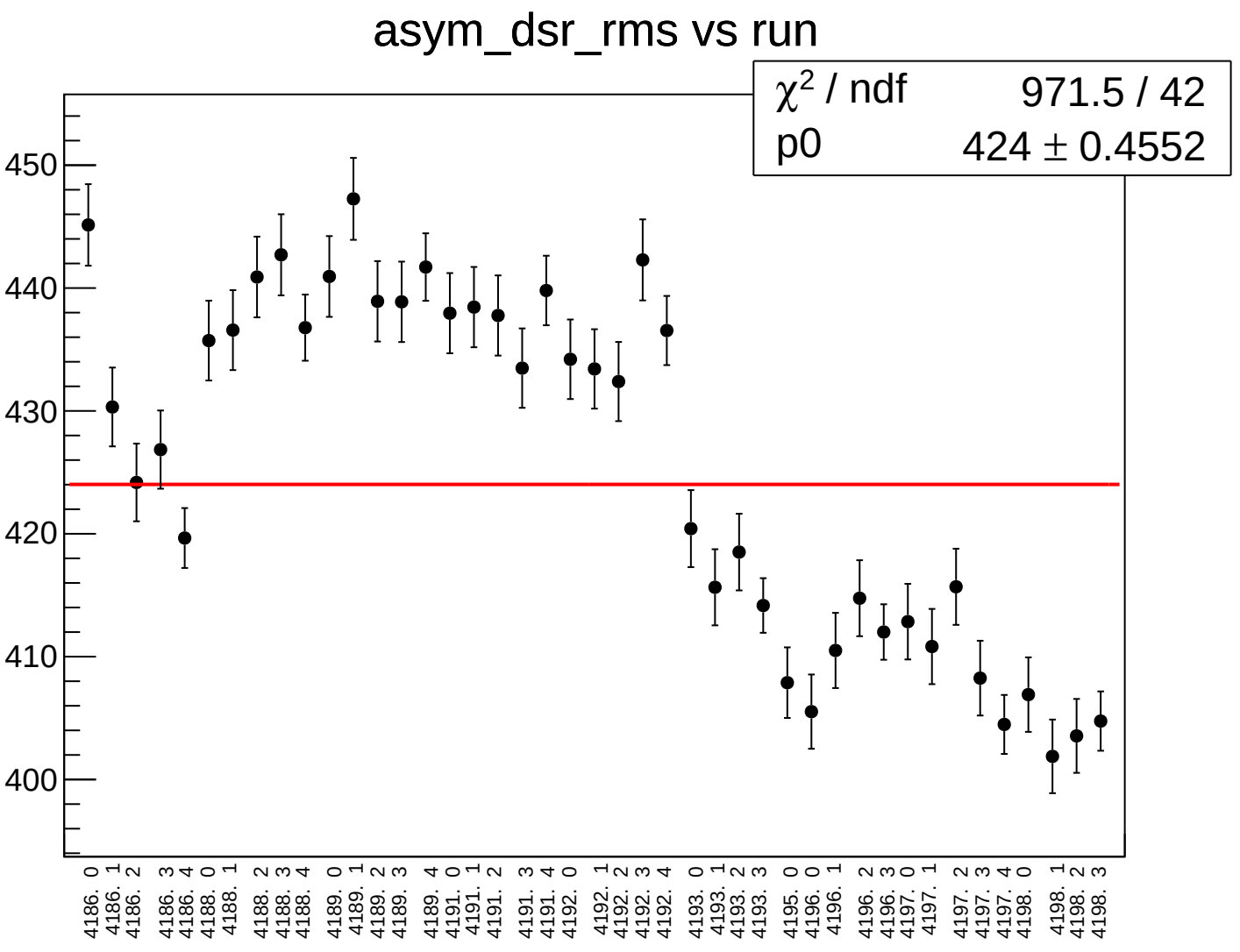

asym_dsr_correction_mean vs run
χ² / ndf 25.36 / 42
p0 −96.12 ± 609.5
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 336.7
Std Dev 325.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

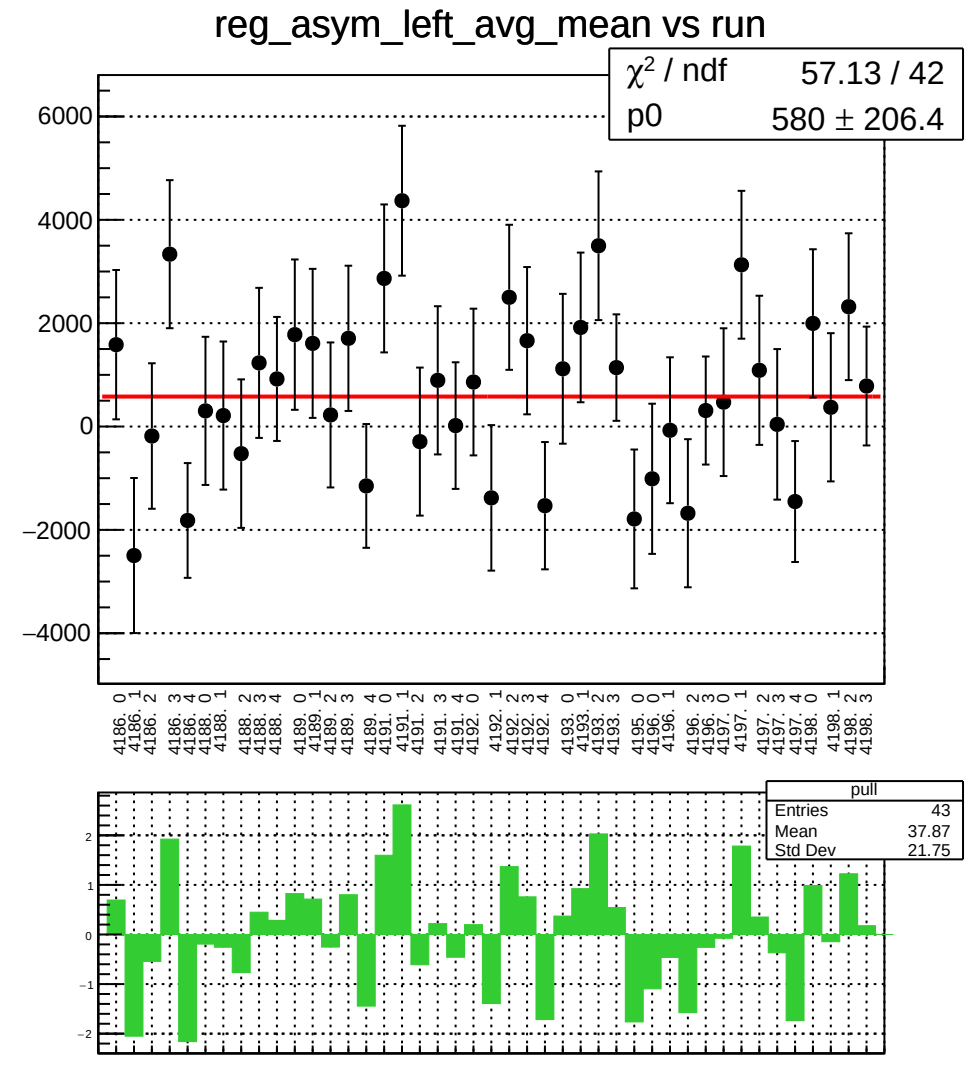

pull1D
Entries 43
Mean 0.003247
Std Dev 0.7679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

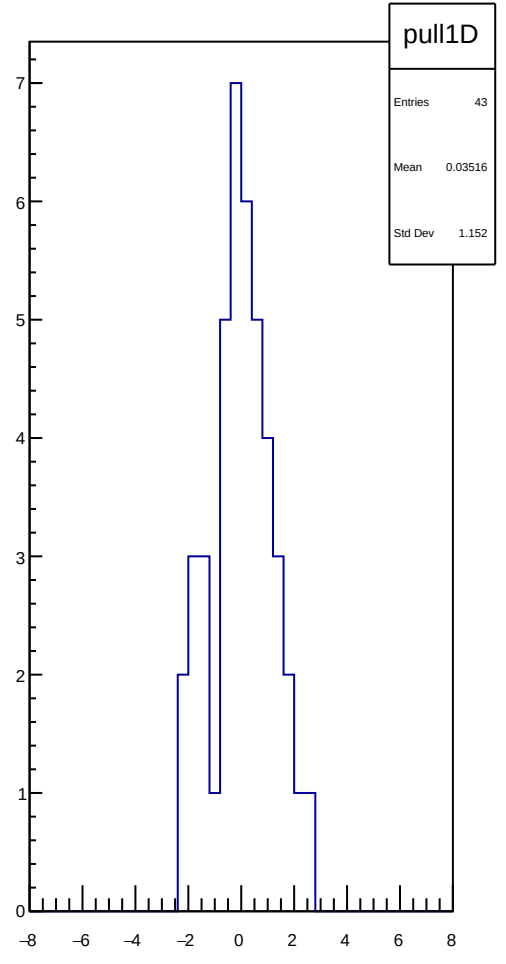

asym_dsr_correction_rms vs run
χ^2 / ndf 1182 / 42
p0 401.4 ± 0.431
430
420
410
400
390
380
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

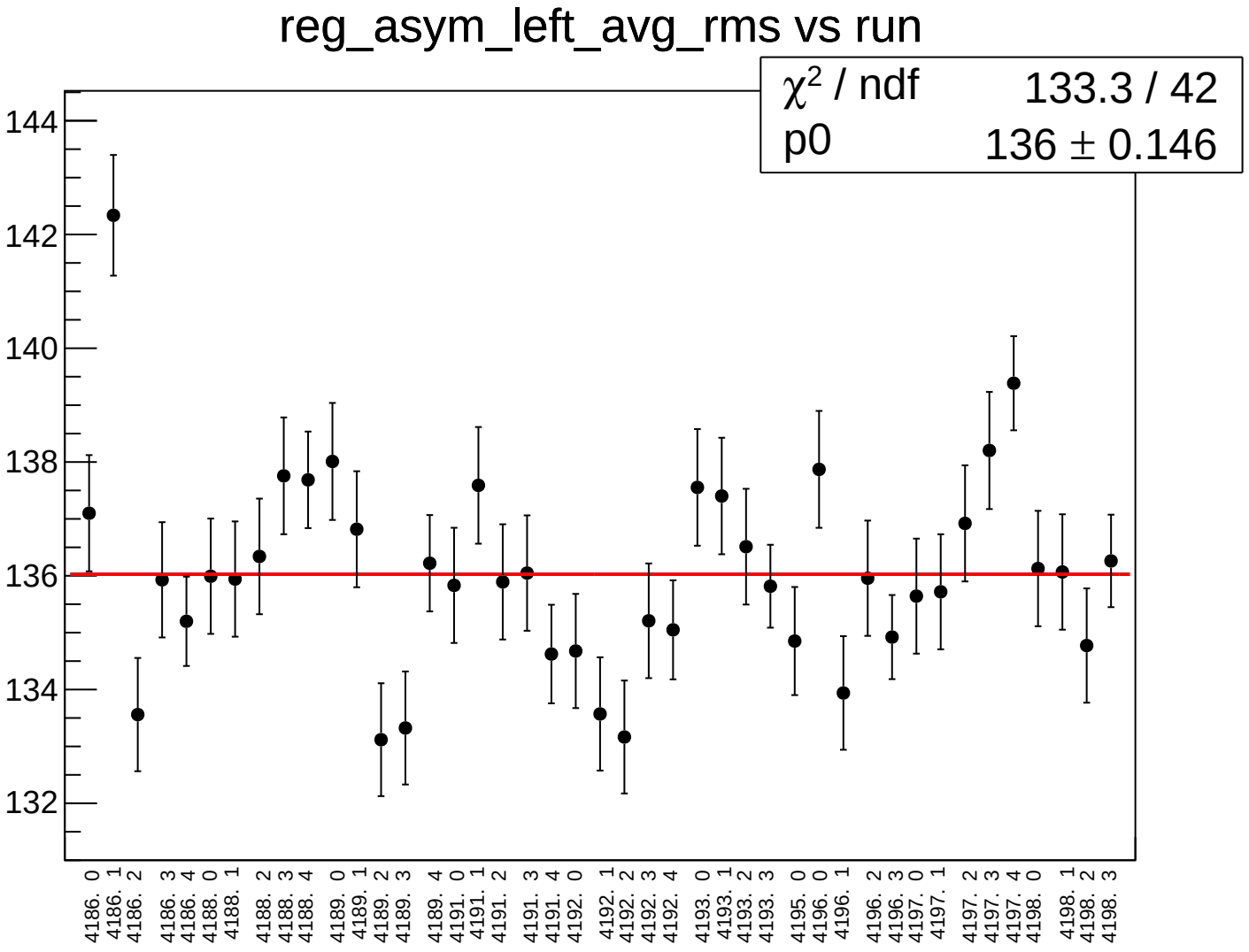

asym_dsr_mean vs run
χ² / ndf 26.69 / 42
p0 413.1 ± 643.7
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 50.38
Std Dev 51.44
1.5
1
0.5
0
−0.5
−1
−1.5
−2

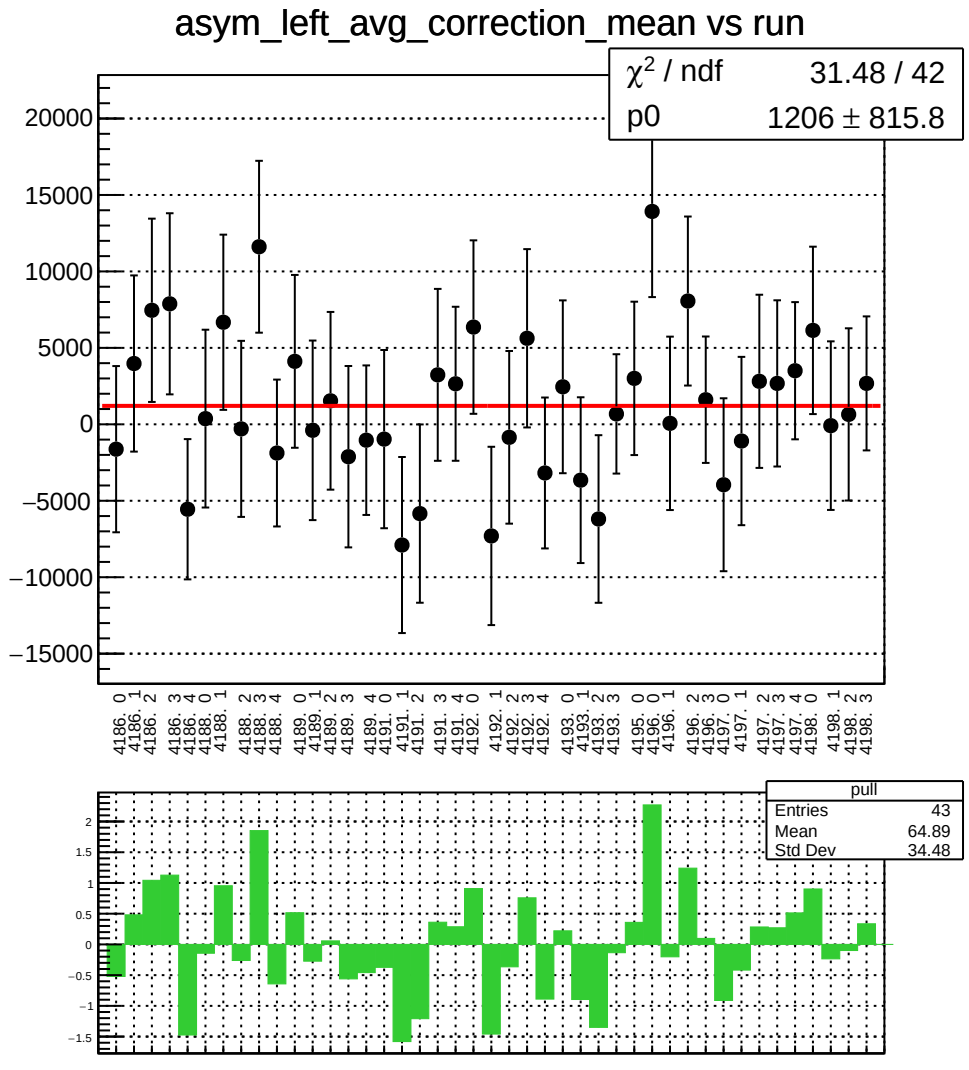

pull1D
Entries 43
Mean −0.01437
Std Dev 0.7878
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

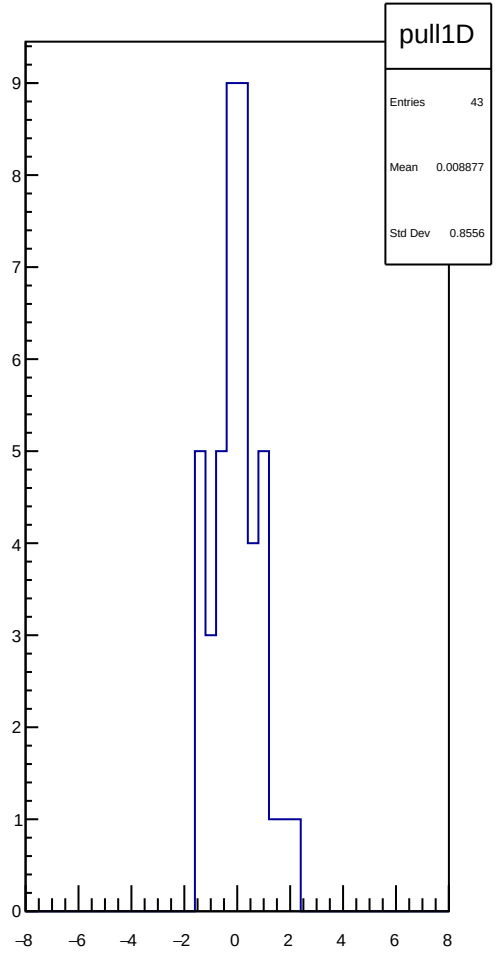

asym_dsr_rms vs run
χ^2 / ndf 971.5 / 42
p0 424 ± 0.4552
450
440
430
420
410
400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

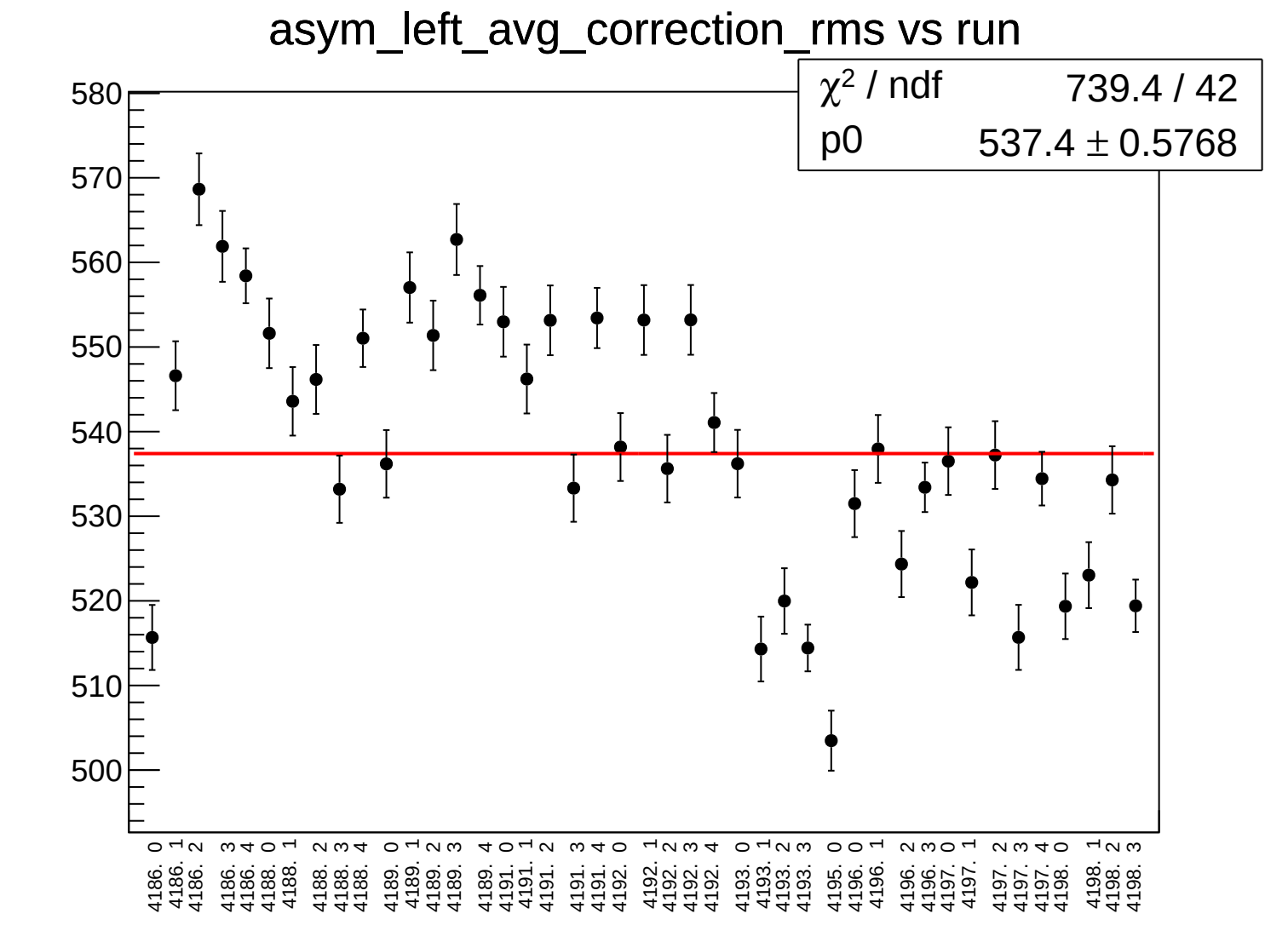

reg_asym_left_avg_mean vs run
χ² / ndf 57.13 / 42
p0 580 ± 206.4
6000
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 37.87
Std Dev 21.75
2
1
0
−1
−2

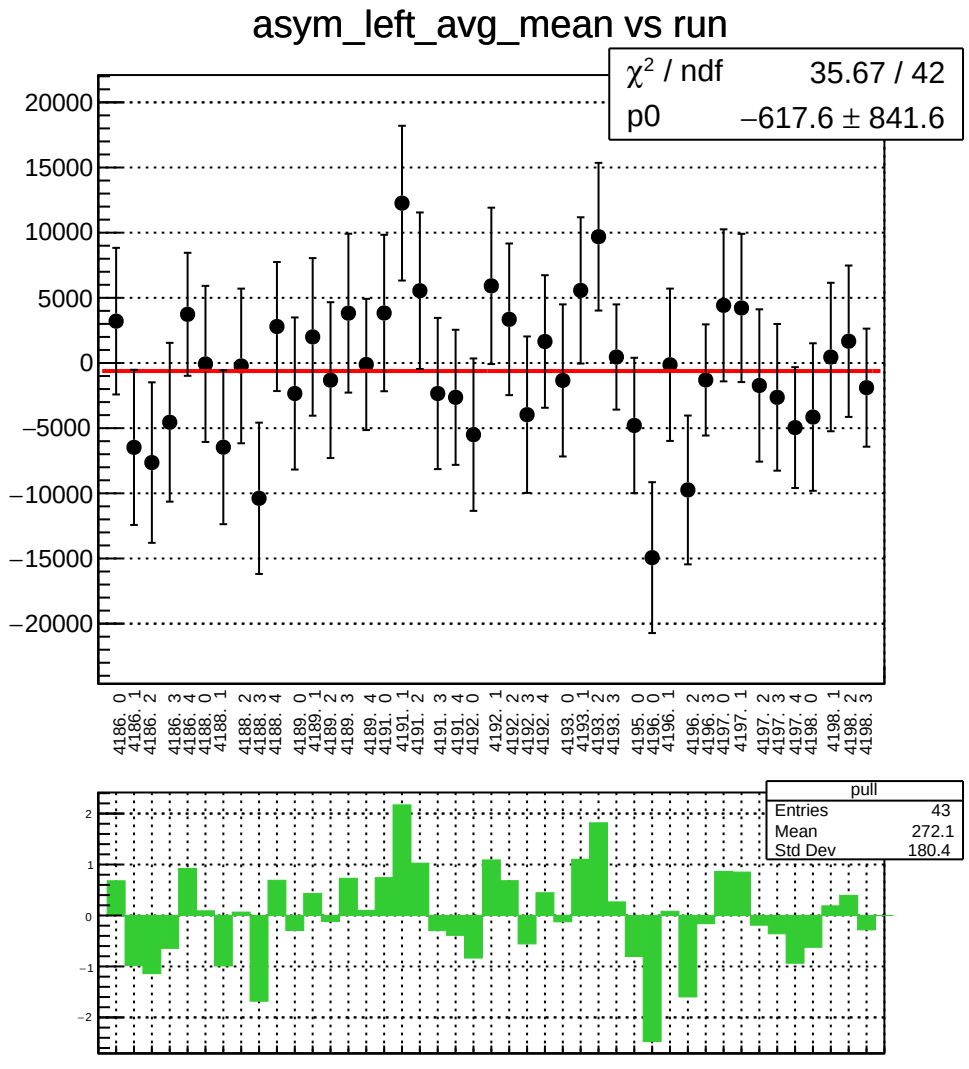

pull1D
Entries 43
Mean 0.03516
Std Dev 1.152
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

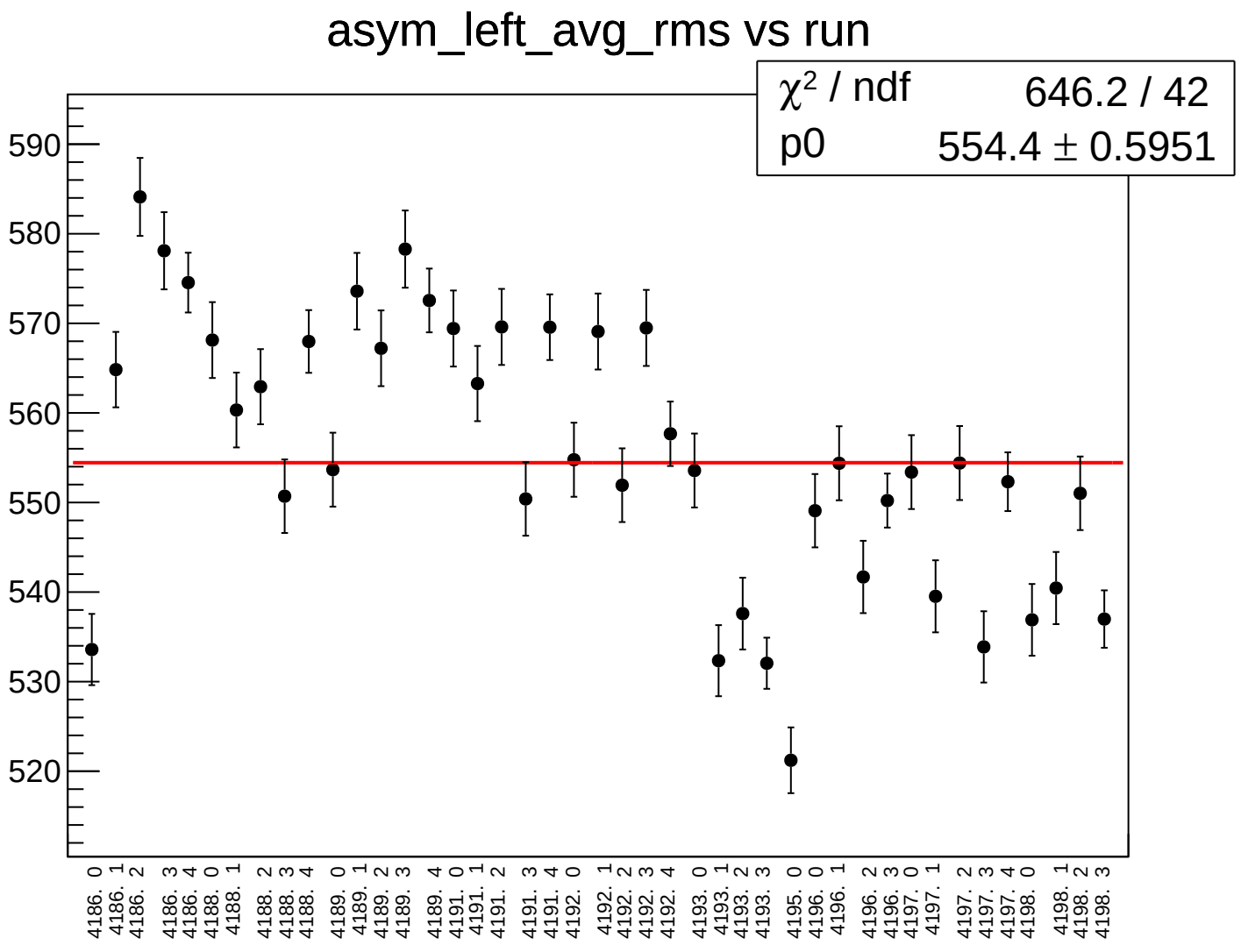

reg_asym_left_avg_rms vs run
χ² / ndf 133.3 / 42
p0 136 ± 0.146
144
142
140
138
136
134
132
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

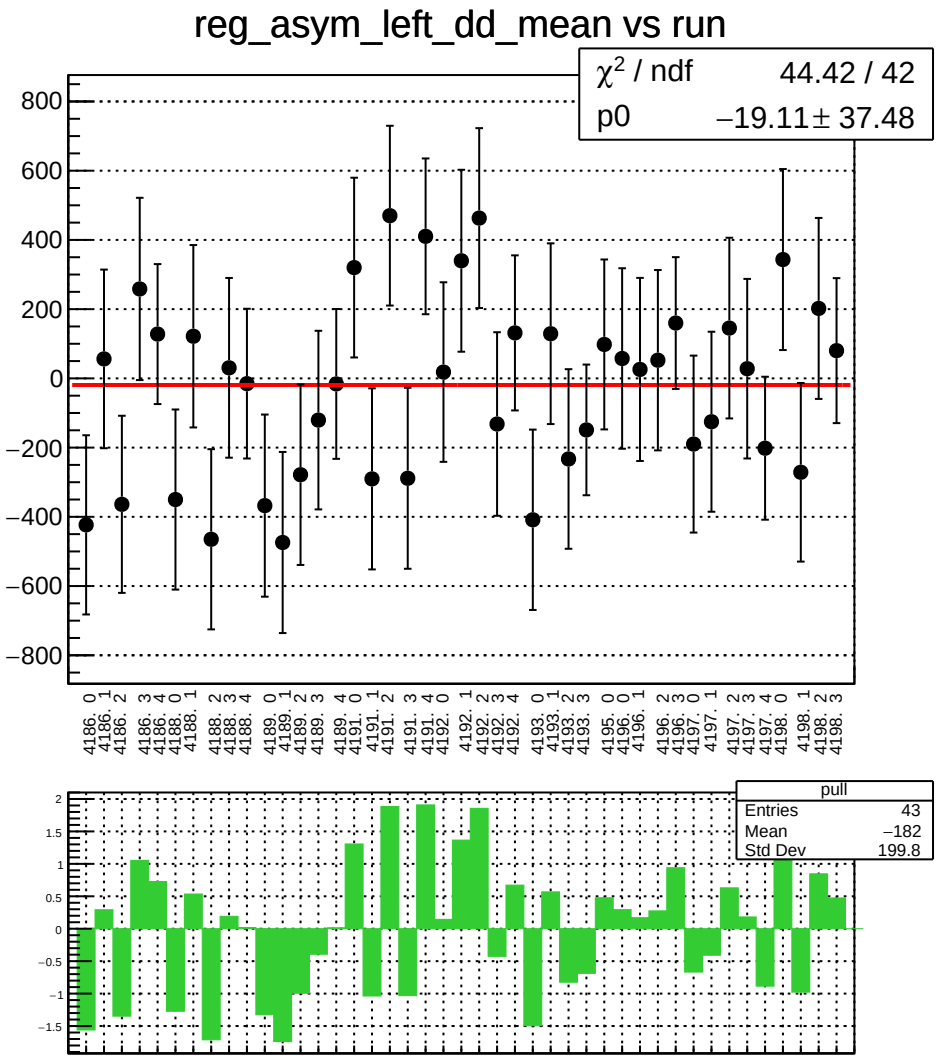

asym_left_avg_correction_mean vs run
χ² / ndf 31.48 / 42
p0 1206 ± 815.8
20000
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 64.89
Std Dev 34.48
2
1.5
1
0.5
0
−0.5
−1
−1.5

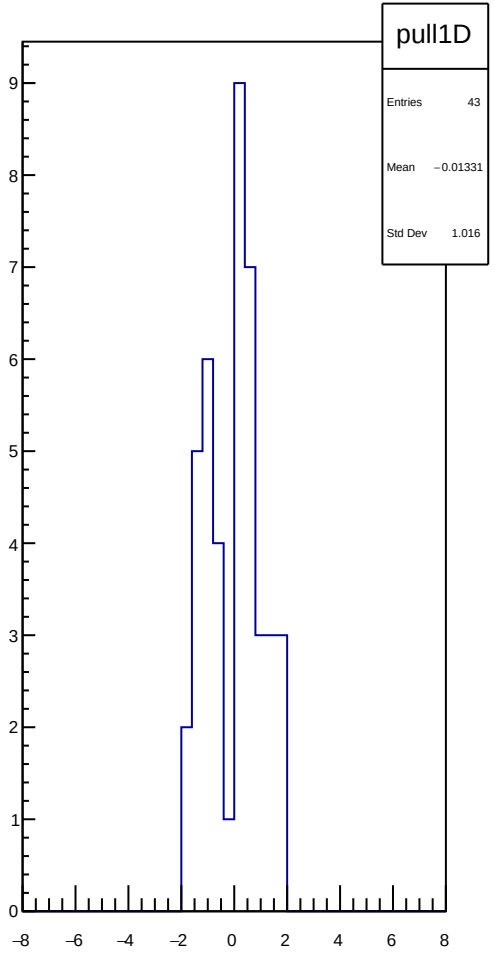

pull1D
Entries 43
Mean 0.008877
Std Dev 0.8556
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

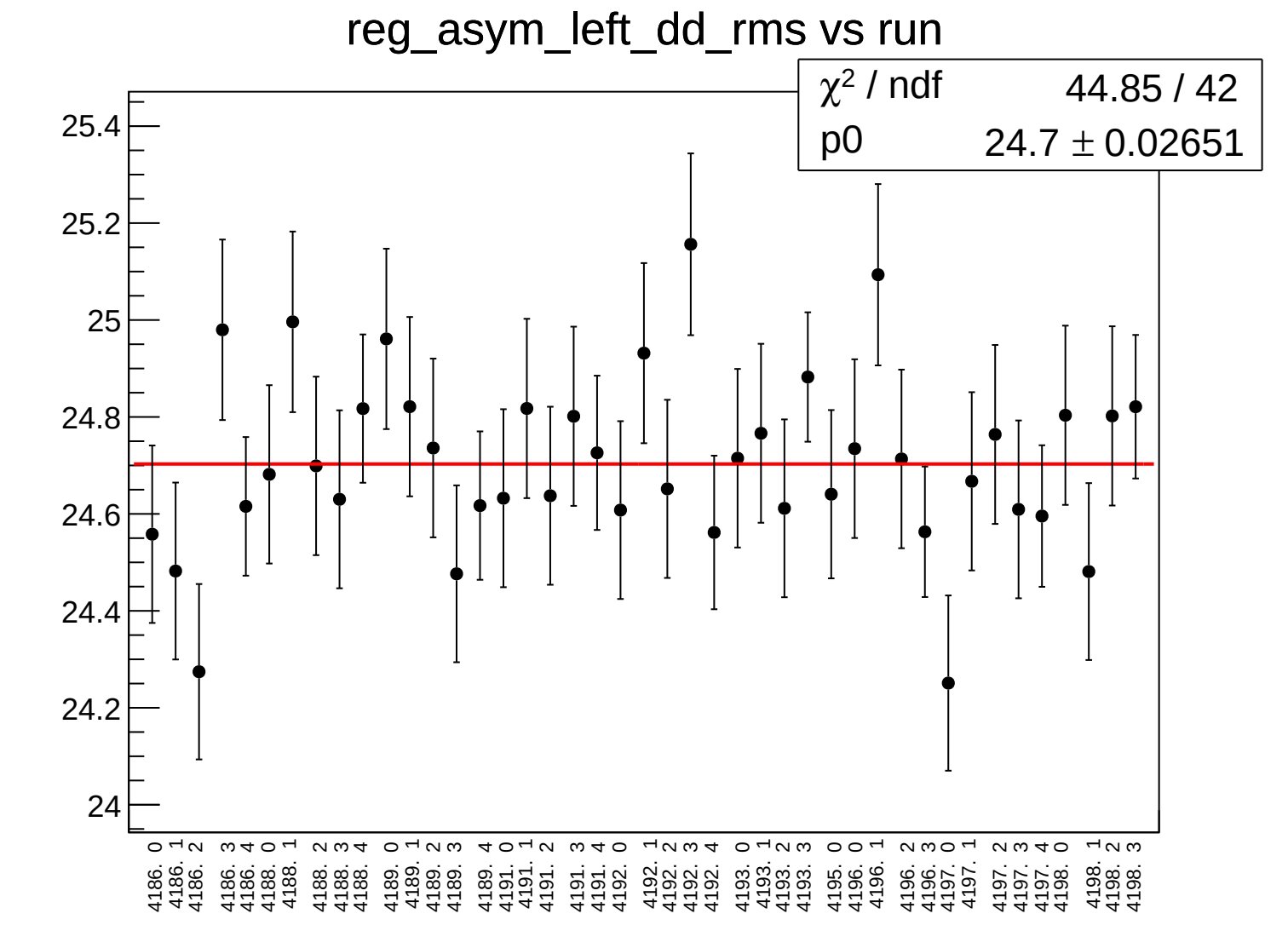

asym_left_avg_correction_rms vs run
χ² / ndf 739.4 / 42
p0 537.4 ± 0.5768
580
570
560
550
540
530
520
510
500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

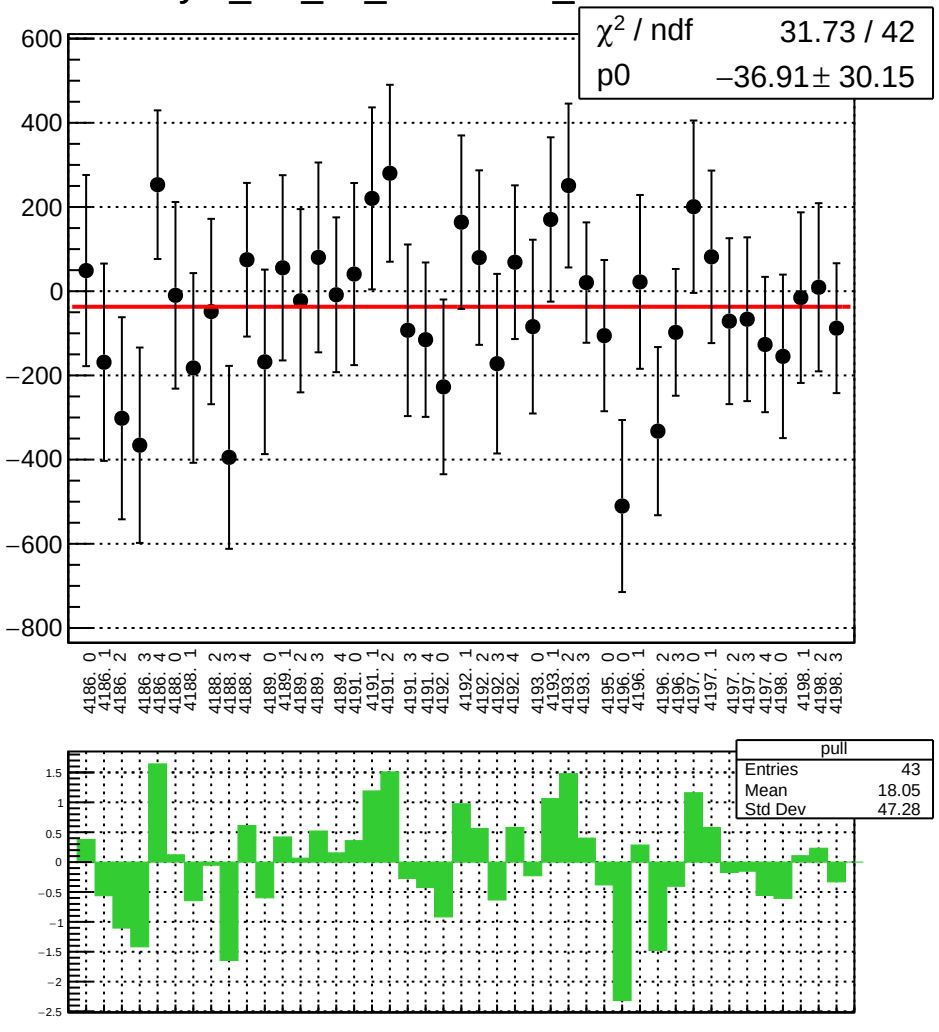

asym_left_avg_mean vs run
χ² / ndf 35.67 / 42
p0 −617.6 ± 841.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 272.1
Std Dev 180.4
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0009383
Std Dev 0.9108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

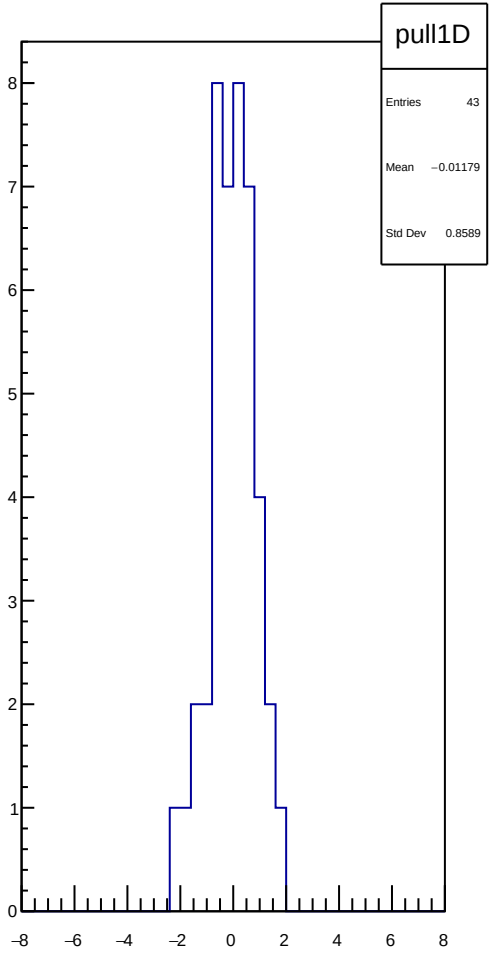

asym_left_avg_rms vs run
χ² / ndf 646.2 / 42
p0 554.4 ± 0.5951
590
580
570
560
550
540
530
520
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

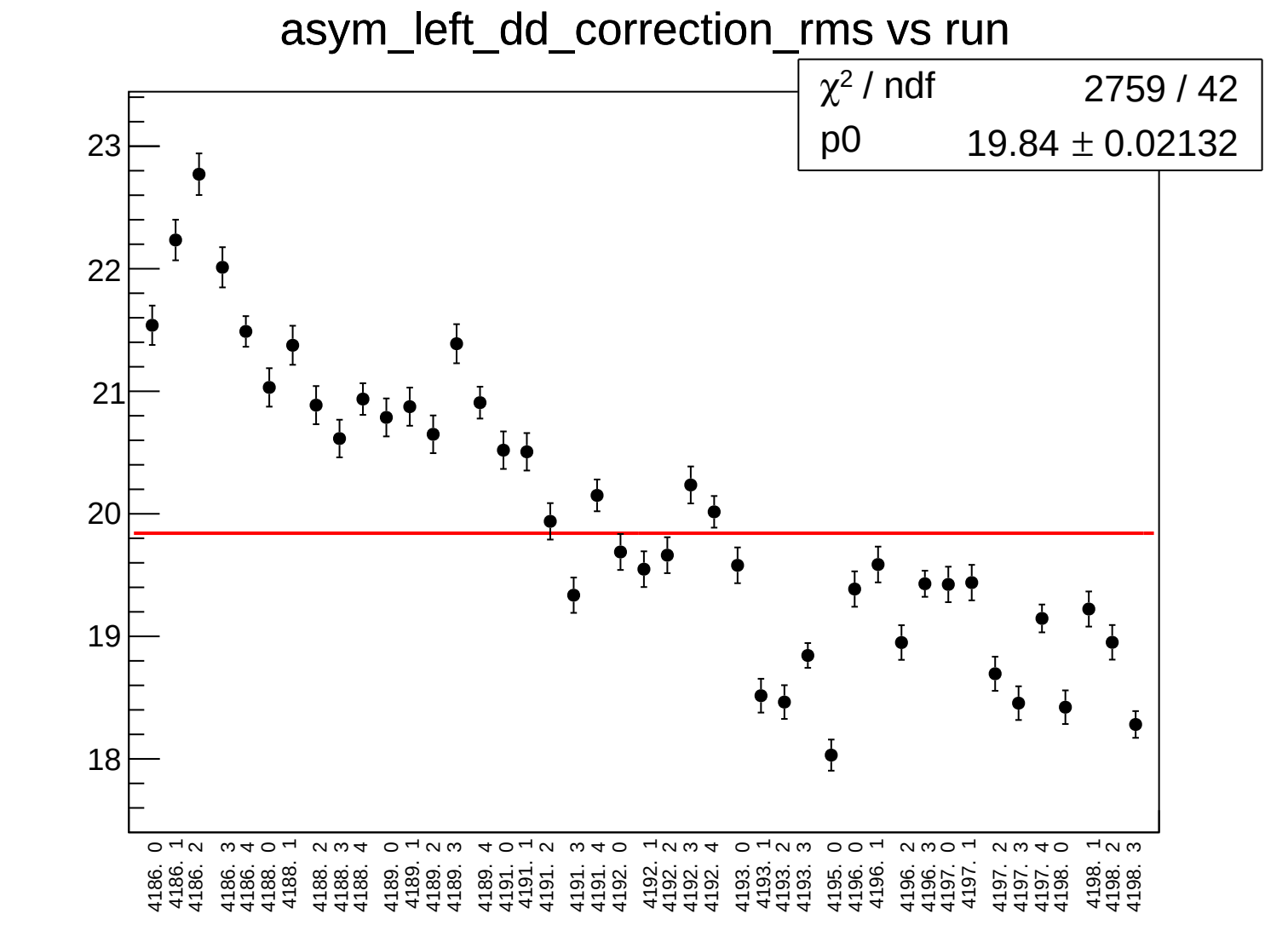

reg_asym_left_dd_mean vs run
χ² / ndf 44.42 / 42
p0 −19.11± 37.48
pull
Entries 43
Mean −182
Std Dev 199.8

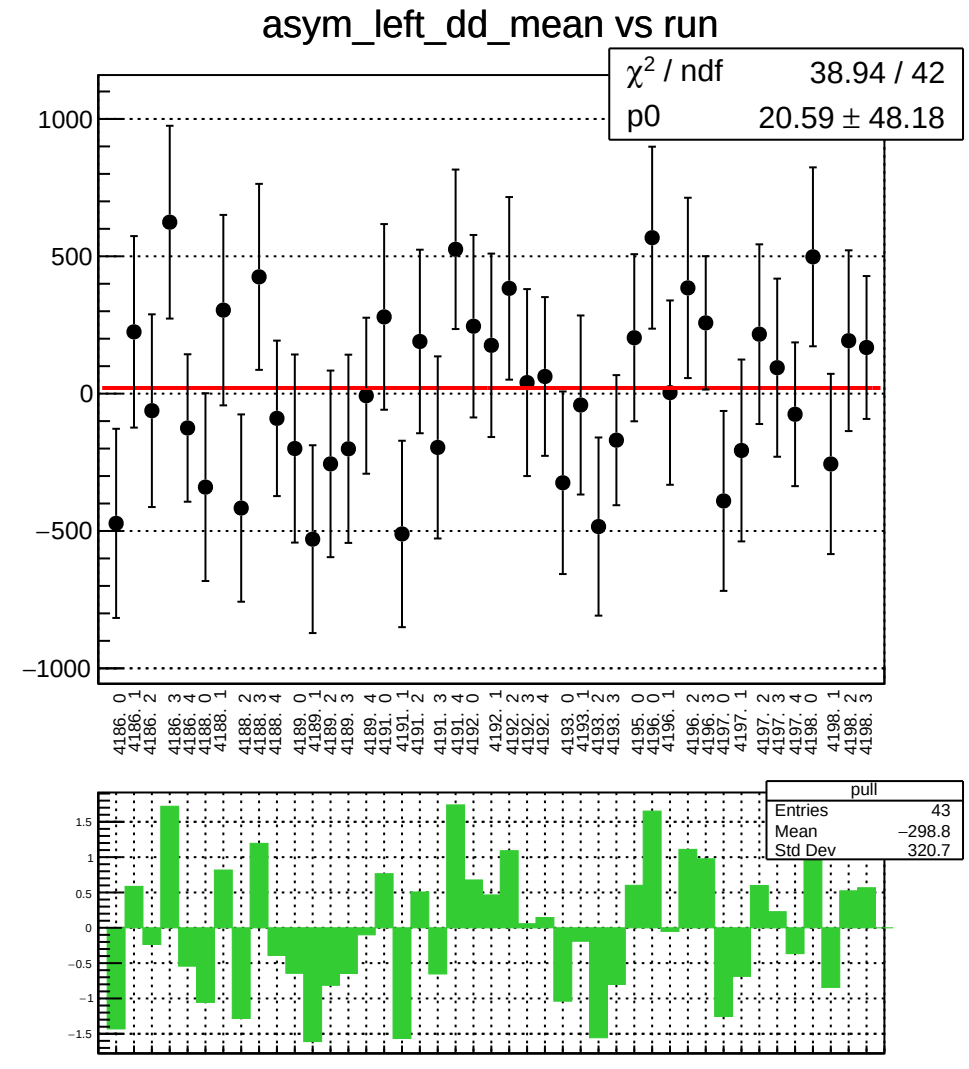

pull1D
Entries 43
Mean −0.01331
Std Dev 1.016

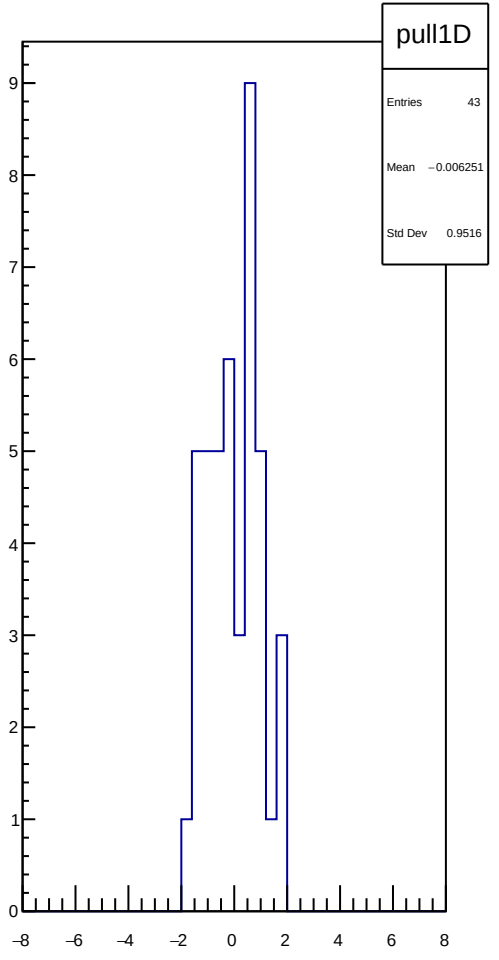

reg_asym_left_dd_rms vs run
χ² / ndf 44.85 / 42
p0 24.7 ± 0.02651
25.4
25.2
25
24.8
24.6
24.4
24.2
24
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

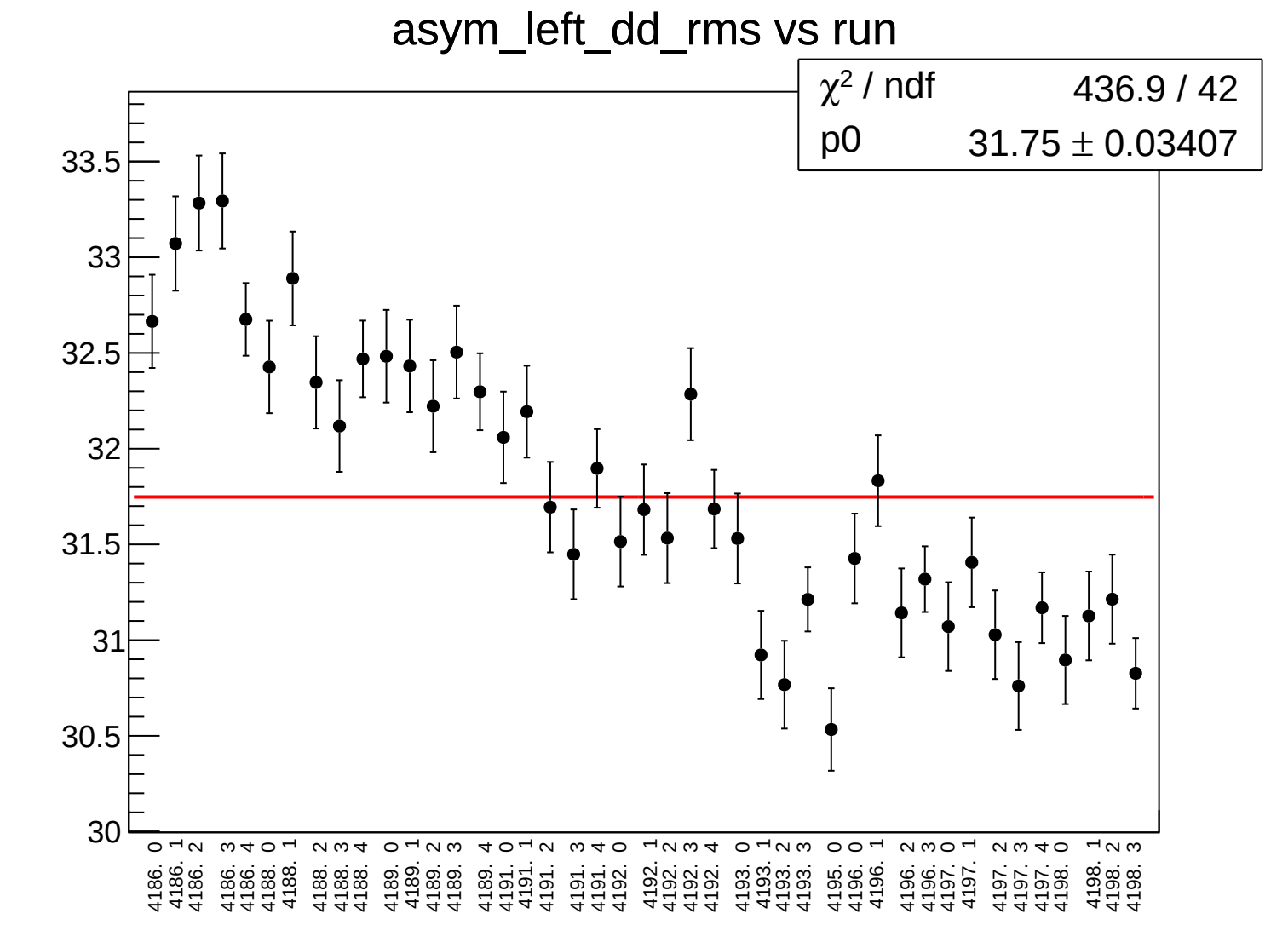

asym_left_dd_correction_mean vs run
χ² / ndf 31.73 / 42
p0 −36.91 ± 30.15
600
400
200
0
−200
−400
−600
−800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 18.05
Std Dev 47.28
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

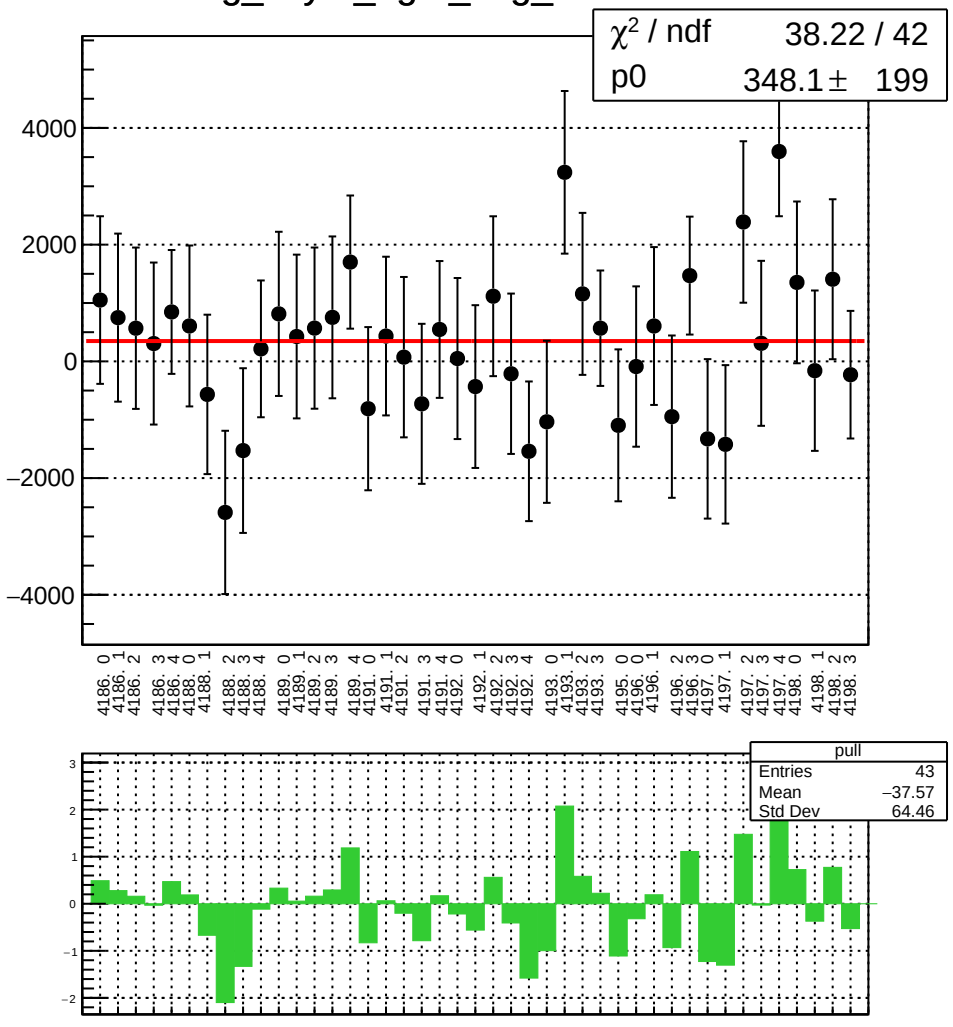

pull1D
Entries 43
Mean −0.01179
Std Dev 0.8589
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

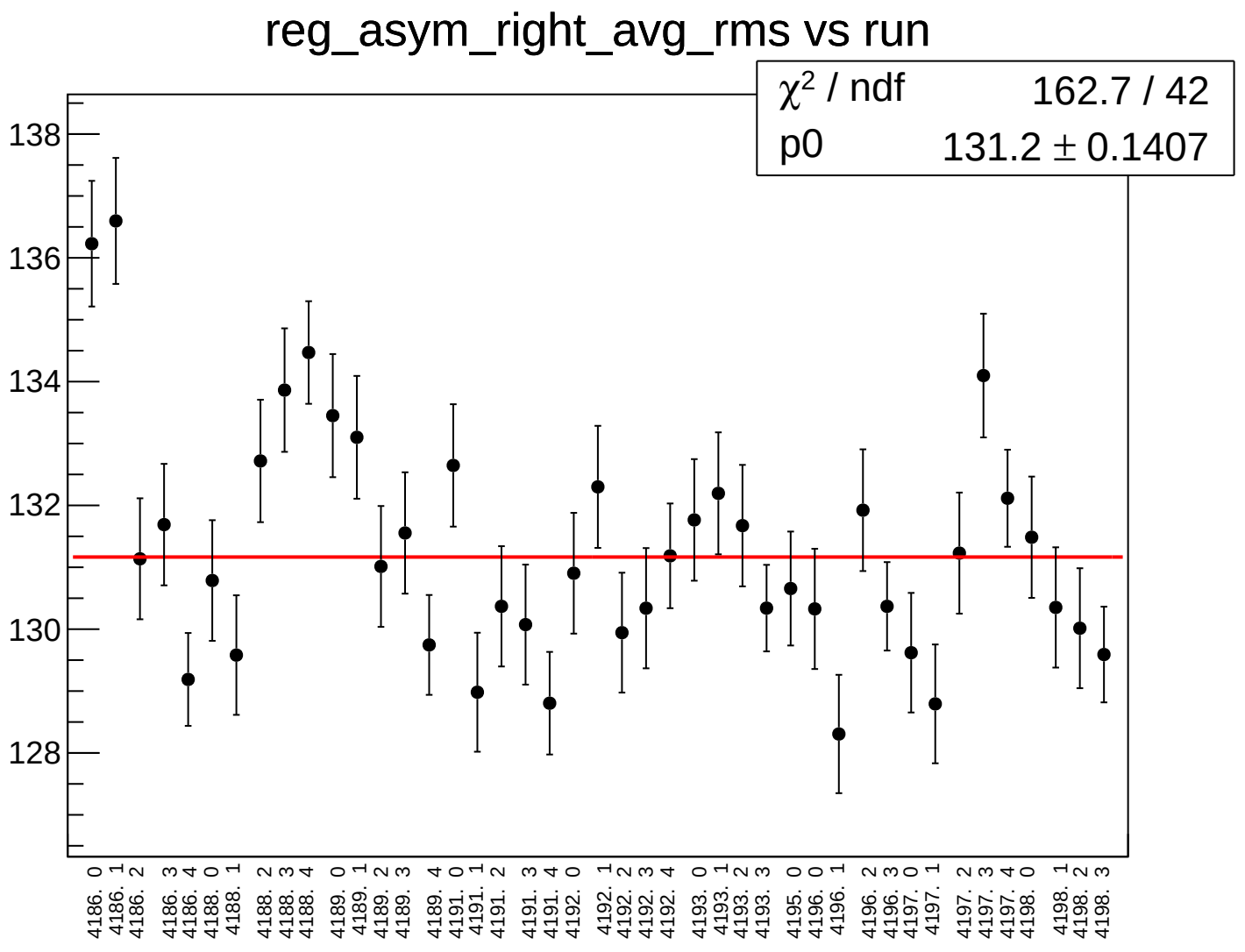

asym_left_dd_correction_rms vs run
χ² / ndf 2759 / 42
p0 19.84 ± 0.02132
23
22
21
20
19
18
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

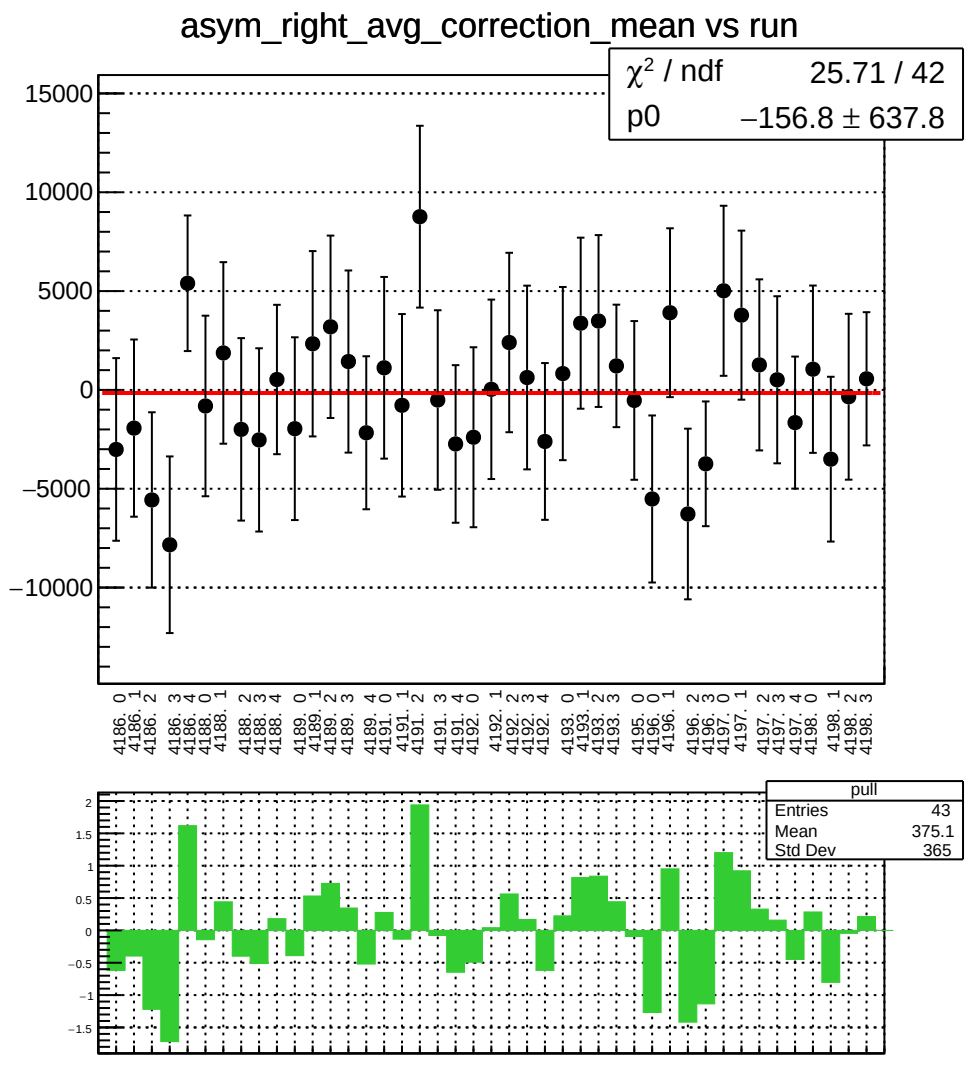

asym_left_dd_mean vs run
χ² / ndf 38.94 / 42
p0 20.59 ± 48.18
1000
500
0
−500
−1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −298.8
Std Dev 320.7
1.5
1
0.5
0
−0.5
−1
−1.5

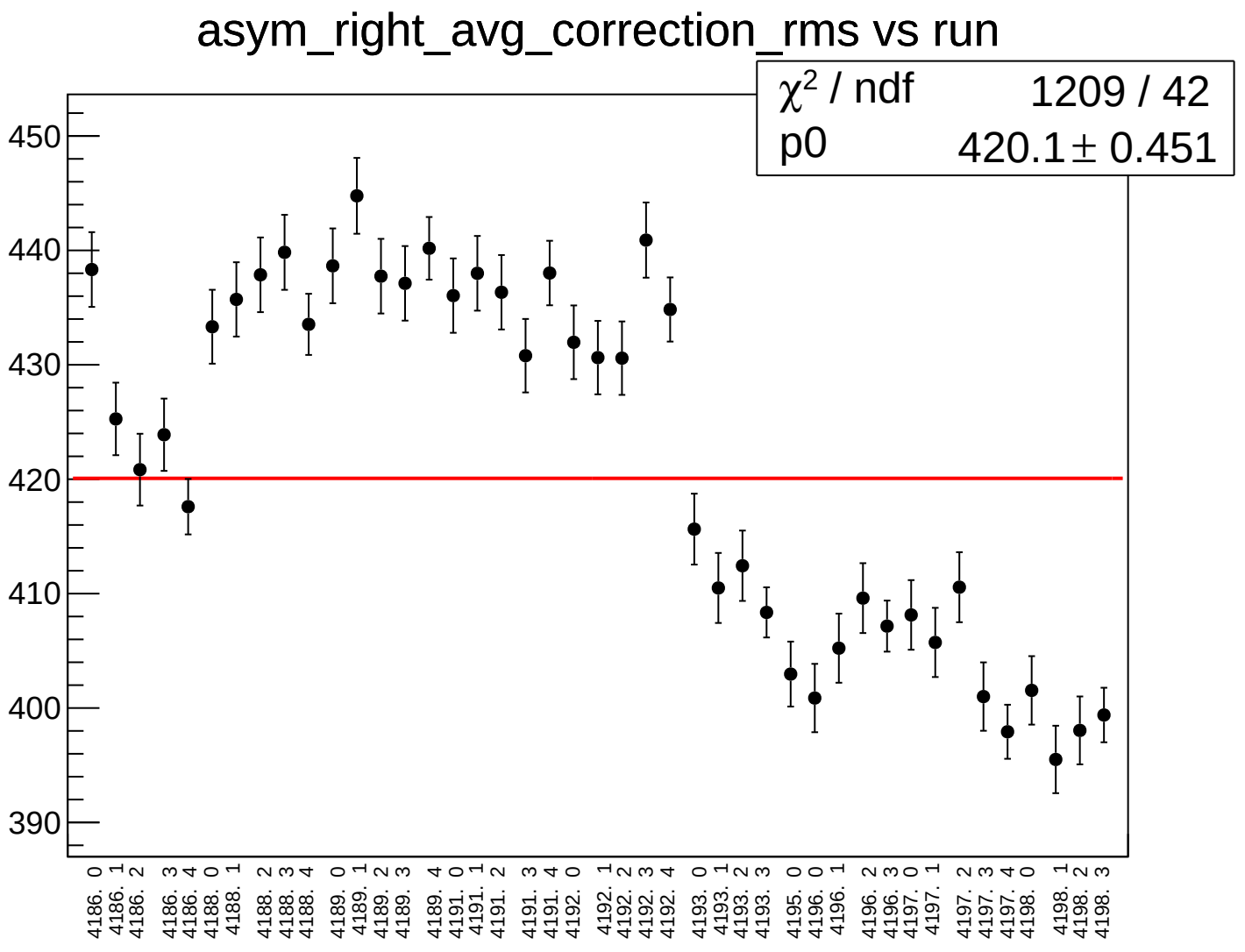

pull1D
Entries 43
Mean −0.006251
Std Dev 0.9516
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

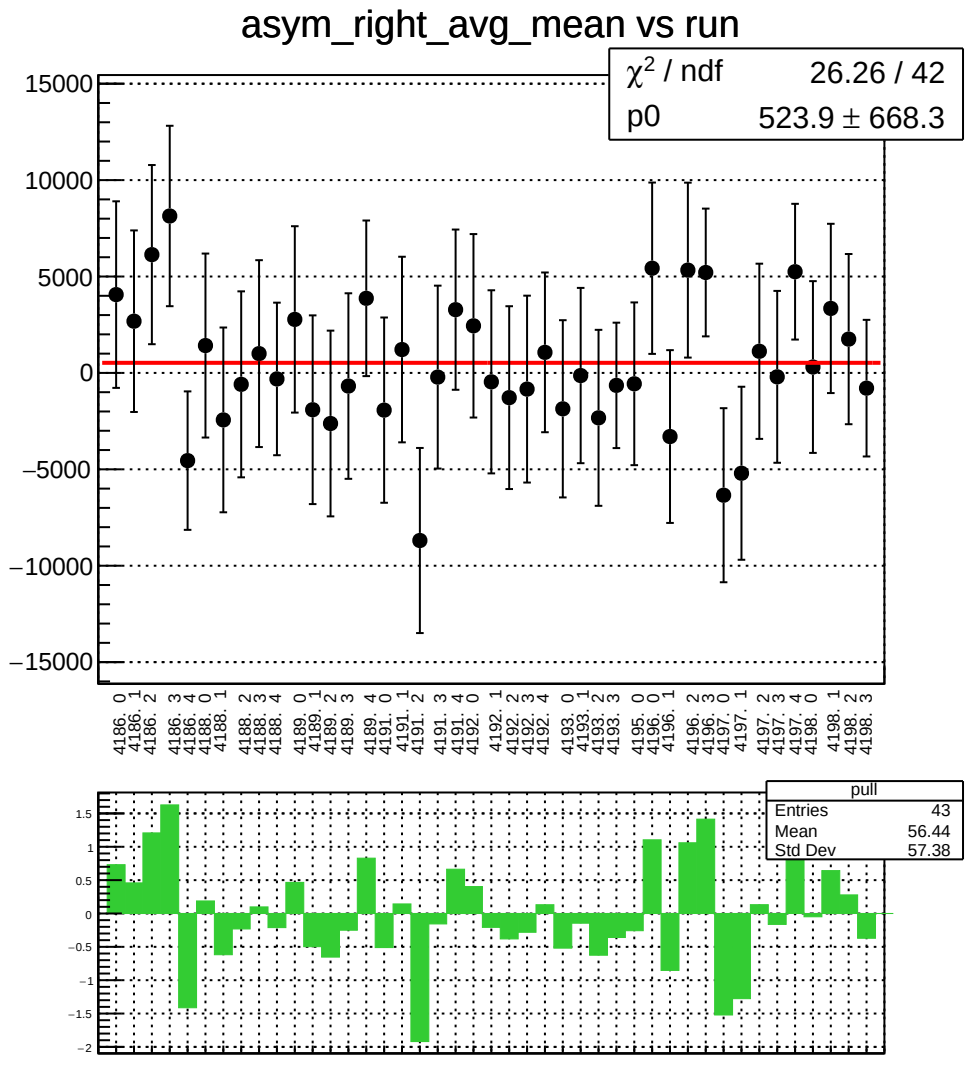

asym_left_dd_rms vs run
χ² / ndf 436.9 / 42
p0 31.75 ± 0.03407
33.5
33
32.5
32
31.5
31
30.5
30
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

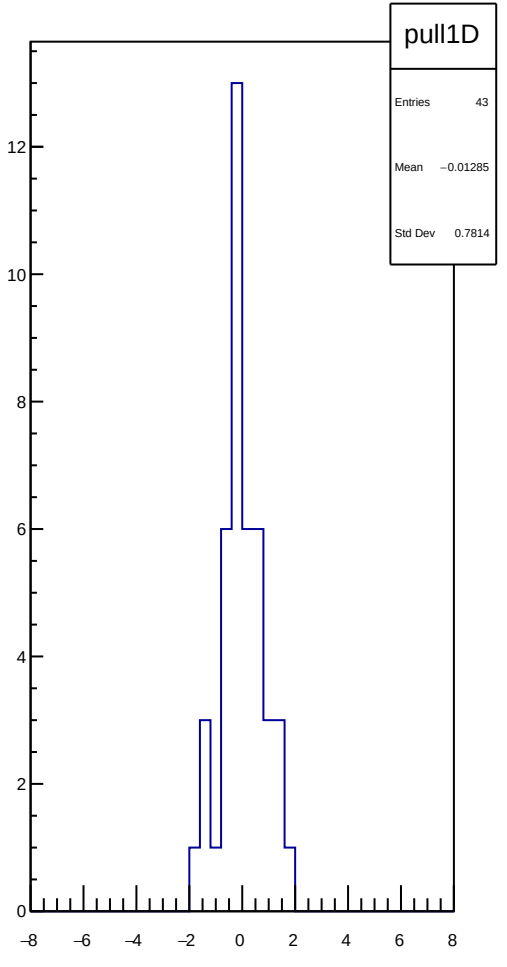

reg_asym_right_avg_mean vs run
χ² / ndf 38.22 / 42
p0 348.1 ± 199
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −37.57
Std Dev 64.46
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0266
Std Dev 0.9425
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

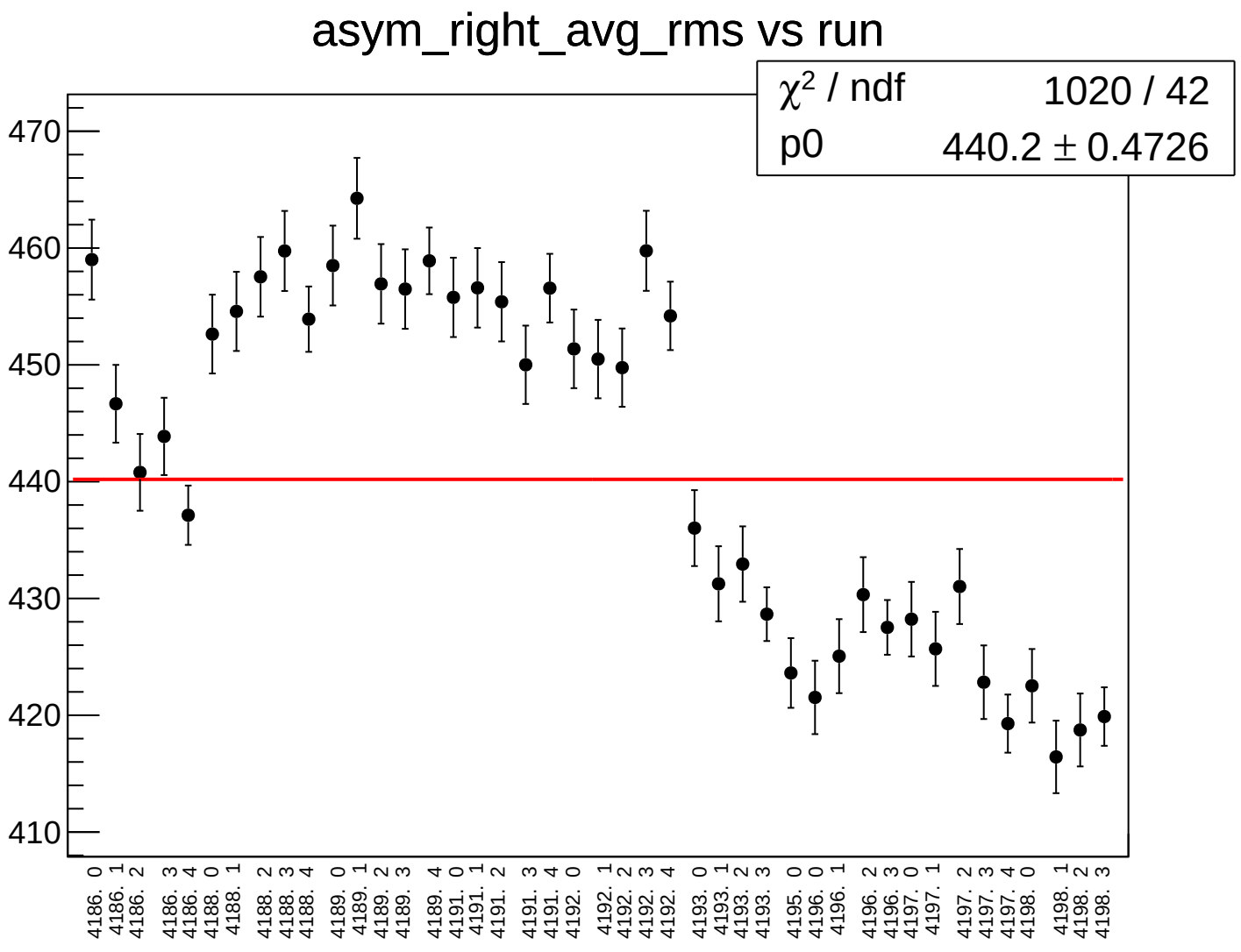

reg_asym_right_avg_rms vs run
χ² / ndf 162.7 / 42
p0 131.2 ± 0.1407
138
136
134
132
130
128
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

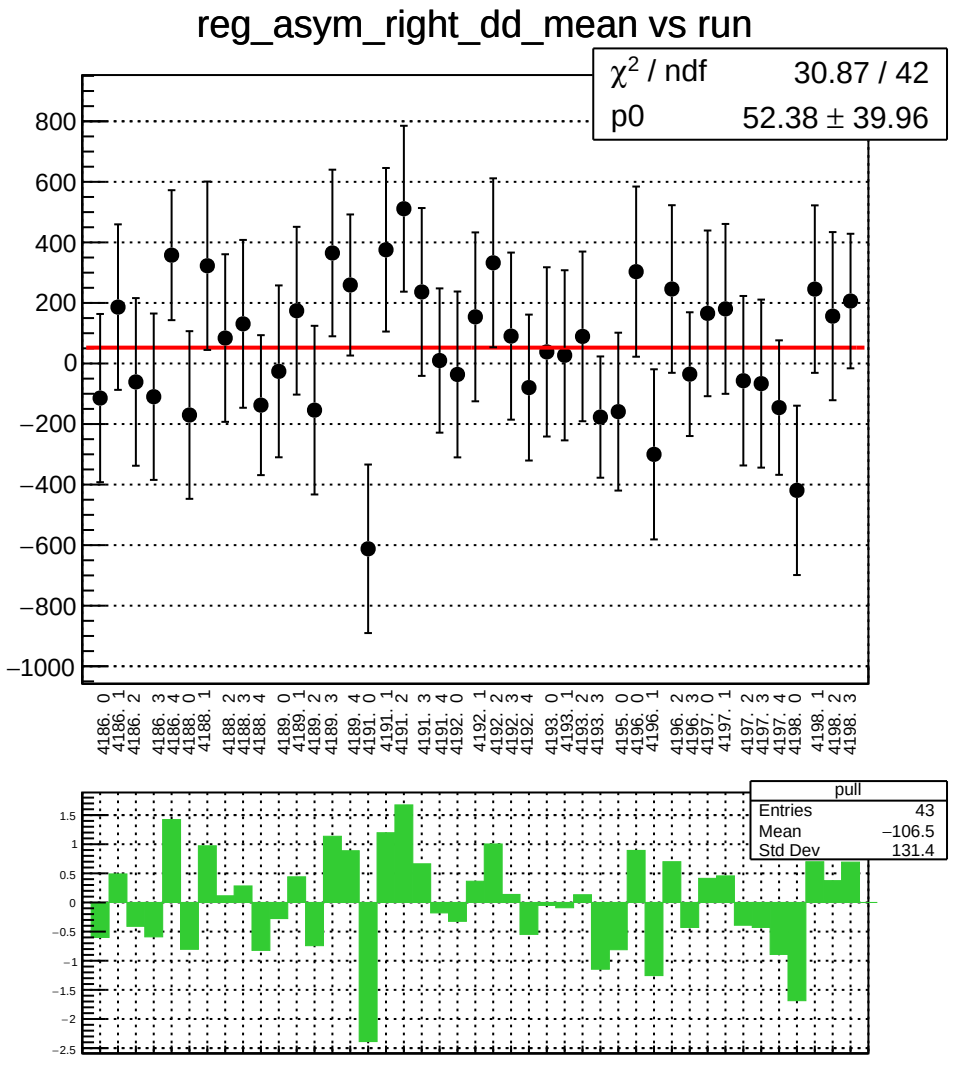

asym_right_avg_correction_mean vs run
χ² / ndf 25.71 / 42
p0 −156.8 ± 637.8
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 375.1
Std Dev 365
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.002756
Std Dev 0.7732
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

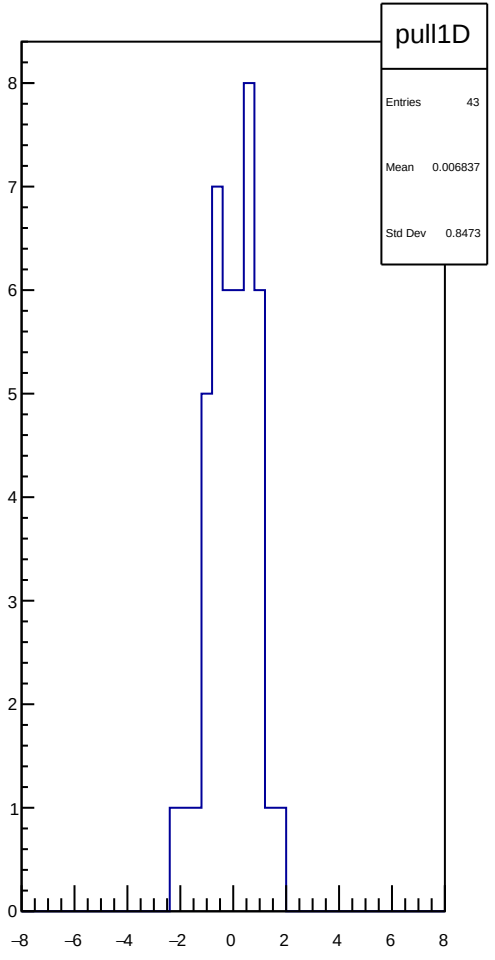

asym_right_avg_correction_rms vs run
χ² / ndf 1209 / 42
p0 420.1 ± 0.451
450
440
430
420
410
400
390
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

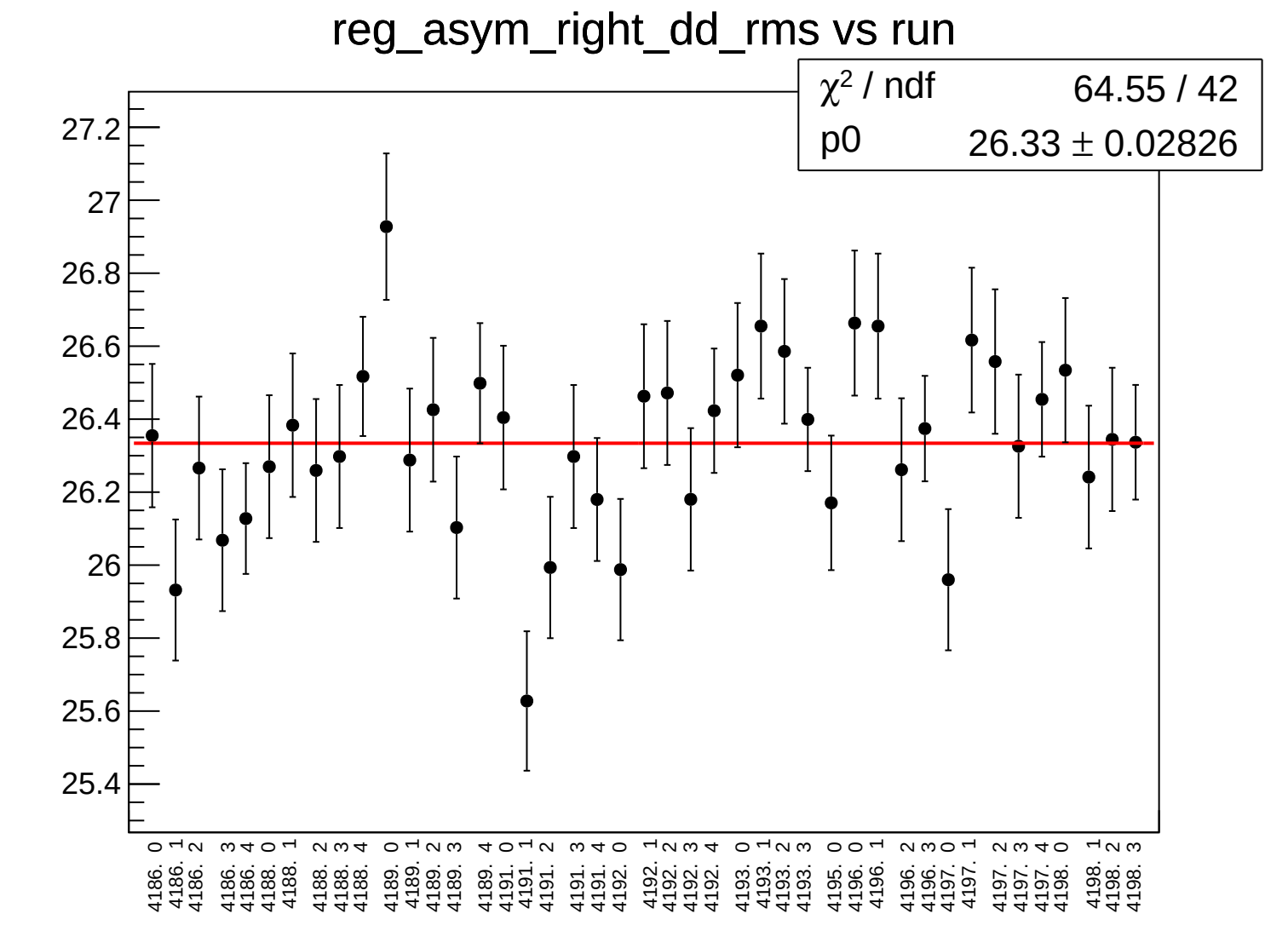

asym_right_avg_mean vs run
χ² / ndf 26.26 / 42
p0 523.9 ± 668.3
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 56.44
Std Dev 57.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2

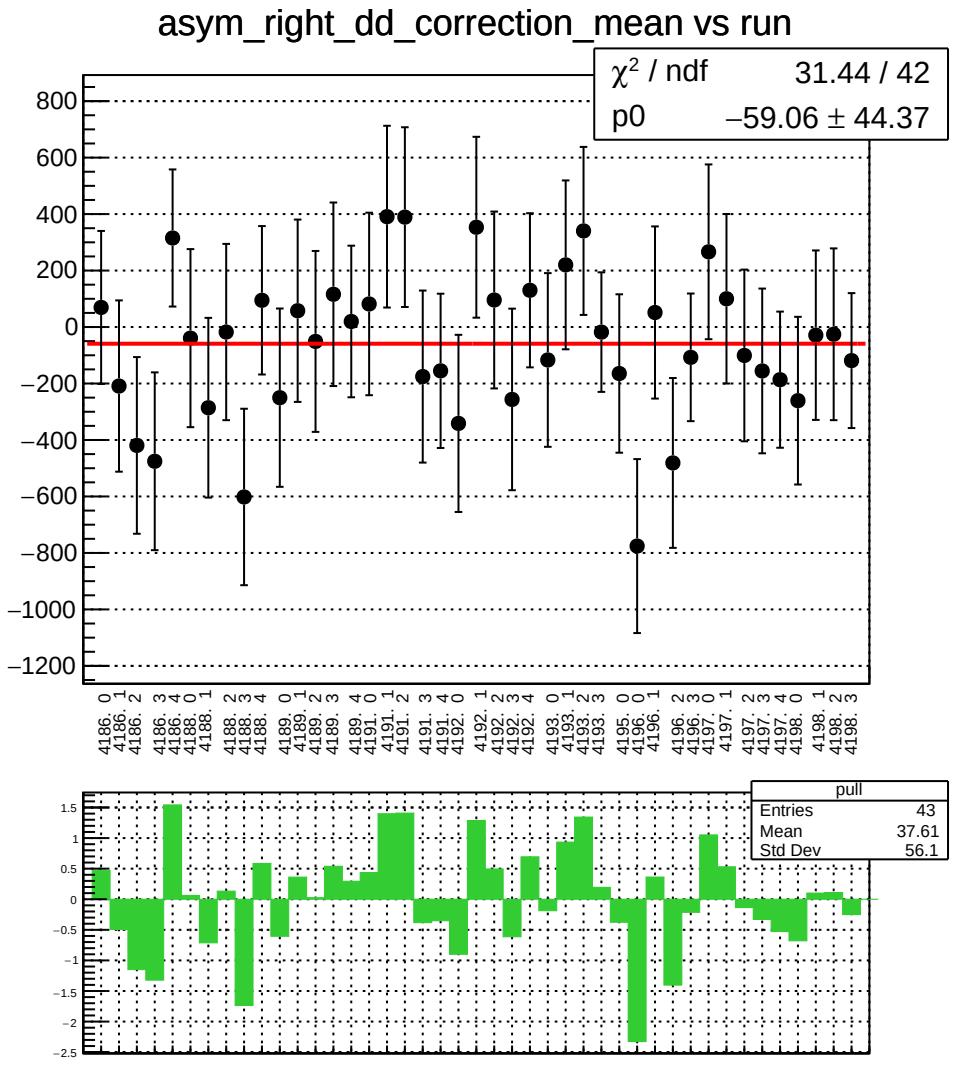

pull1D
Entries 43
Mean −0.01285
Std Dev 0.7814
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

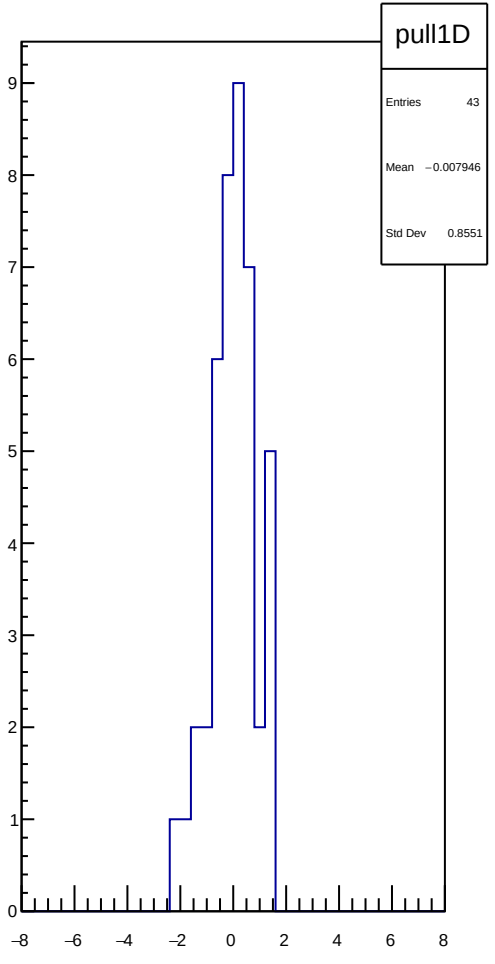

asym_right_avg_rms vs run
χ² / ndf 1020 / 42
p0 440.2 ± 0.4726
470
460
450
440
430
420
410
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

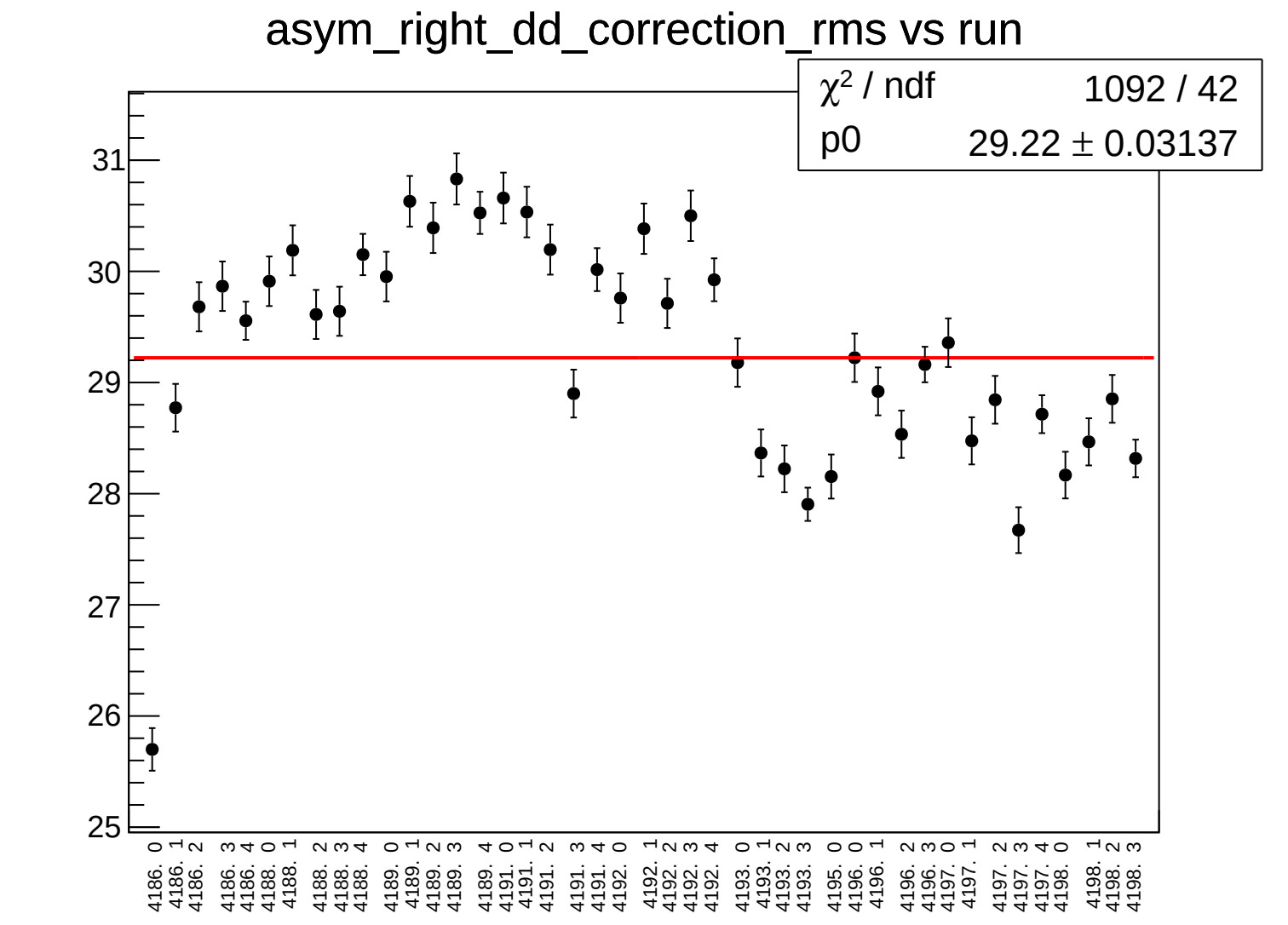

reg_asym_right_dd_mean vs run
χ² / ndf 30.87 / 42
p0 52.38 ± 39.96
pull
Entries 43
Mean −106.5
Std Dev 131.4

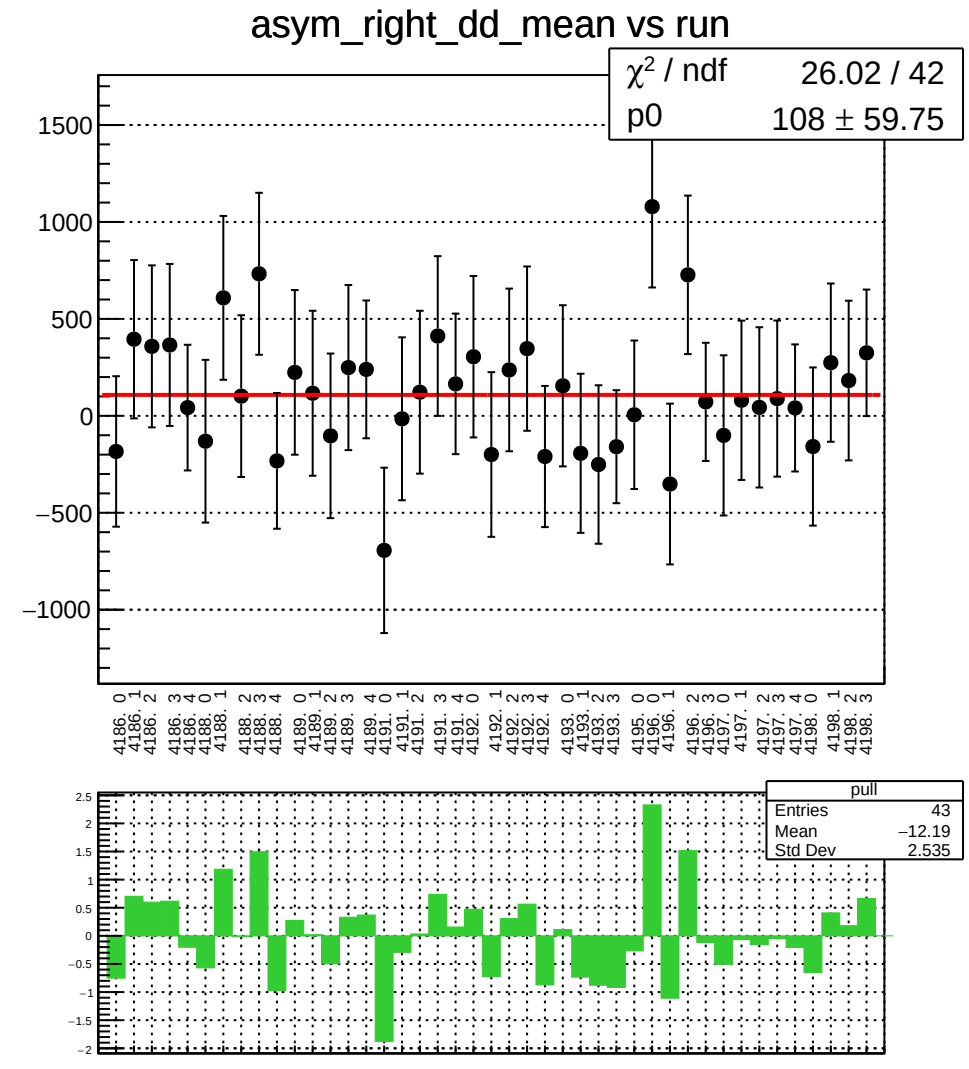

pull1D
Entries 43
Mean 0.006837
Std Dev 0.8473

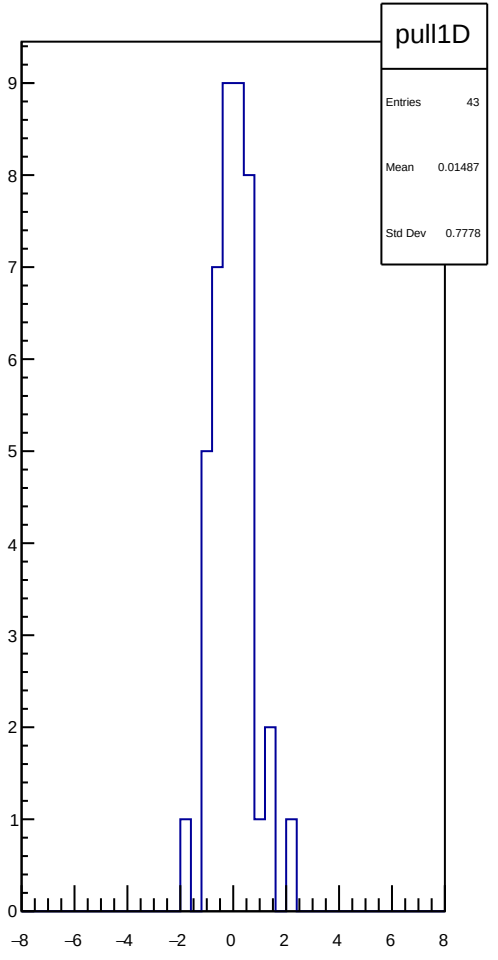

reg_asym_right_dd_rms vs run
χ² / ndf 64.55 / 42
p0 26.33 ± 0.02826
27.2
27
26.8
26.6
26.4
26.2
26
25.8
25.6
25.4
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

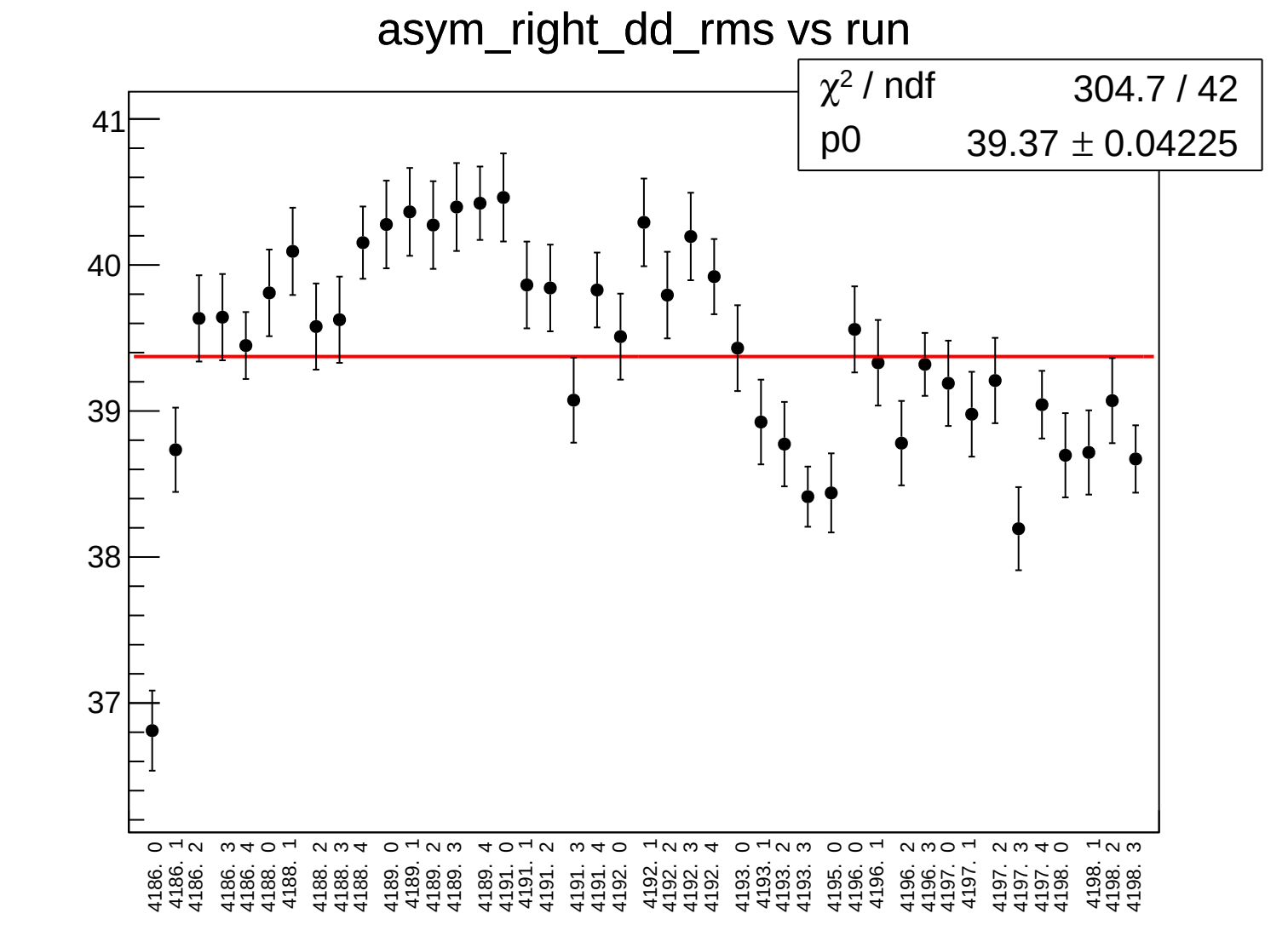

asym_right_dd_correction_mean vs run
χ² / ndf 31.44 / 42
p0 −59.06 ± 44.37
pull
Entries 43
Mean 37.61
Std Dev 56.1

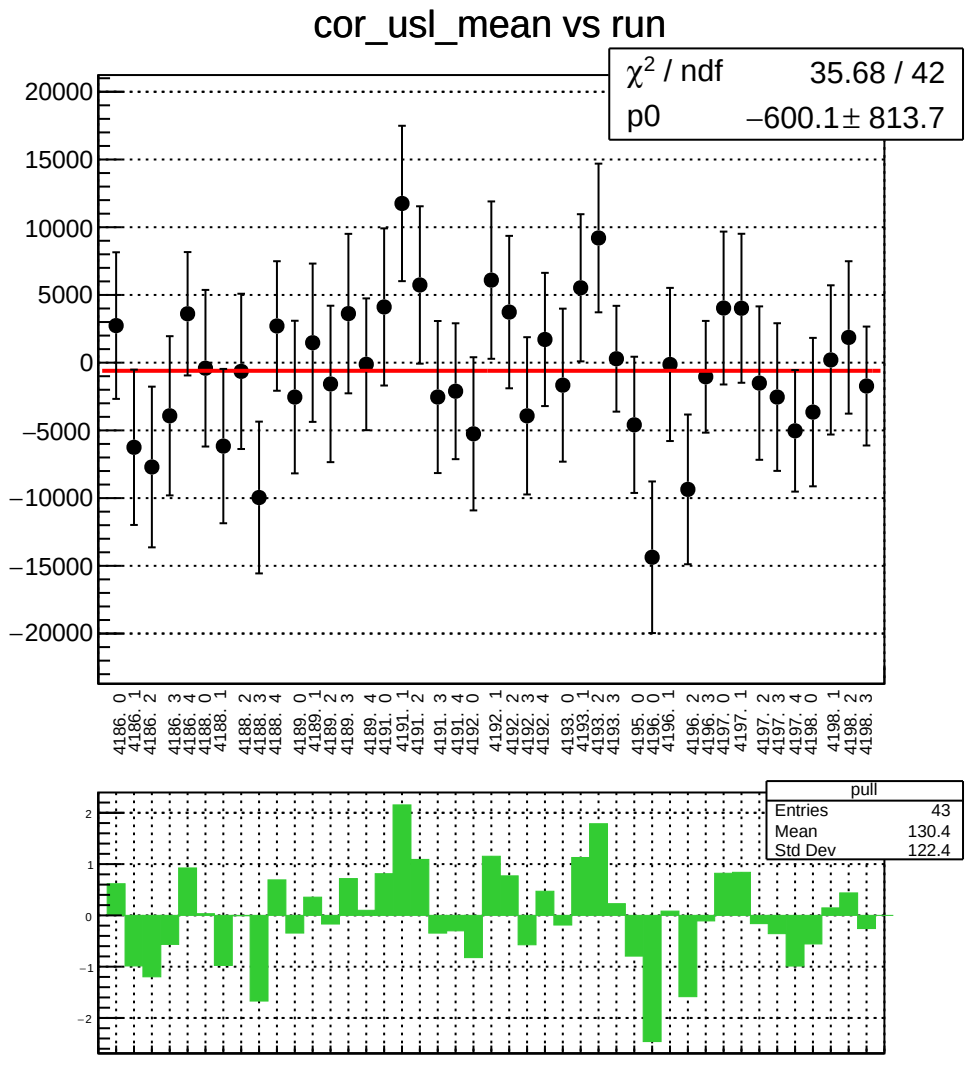

pull1D
Entries 43
Mean −0.007946
Std Dev 0.8551

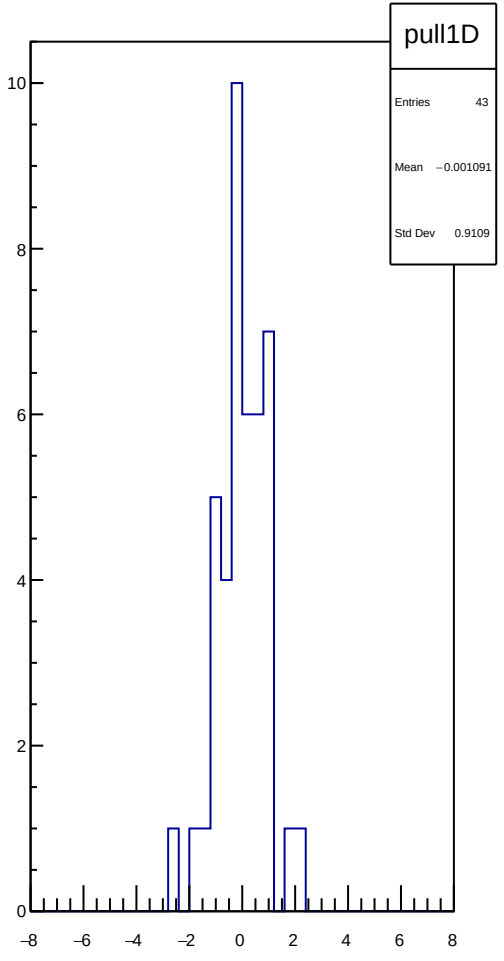

asym_right_dd_correction_rms vs run
χ² / ndf 1092 / 42
p0 29.22 ± 0.03137
31
30
29
28
27
26
25
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

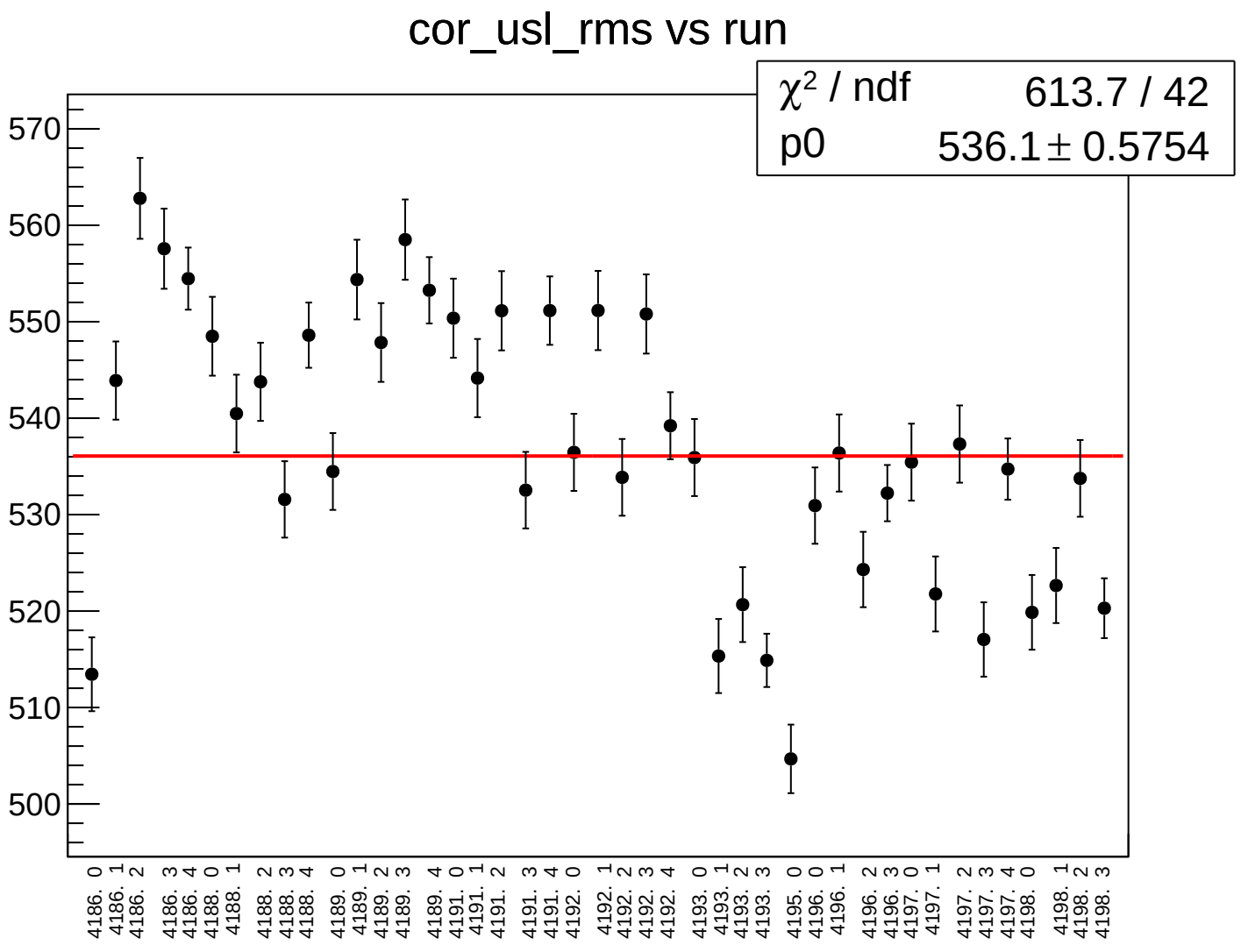

asym_right_dd_mean vs run
χ² / ndf 26.02 / 42
p0 108 ± 59.75
1500
1000
500
0
−500
−1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −12.19
Std Dev 2.535
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

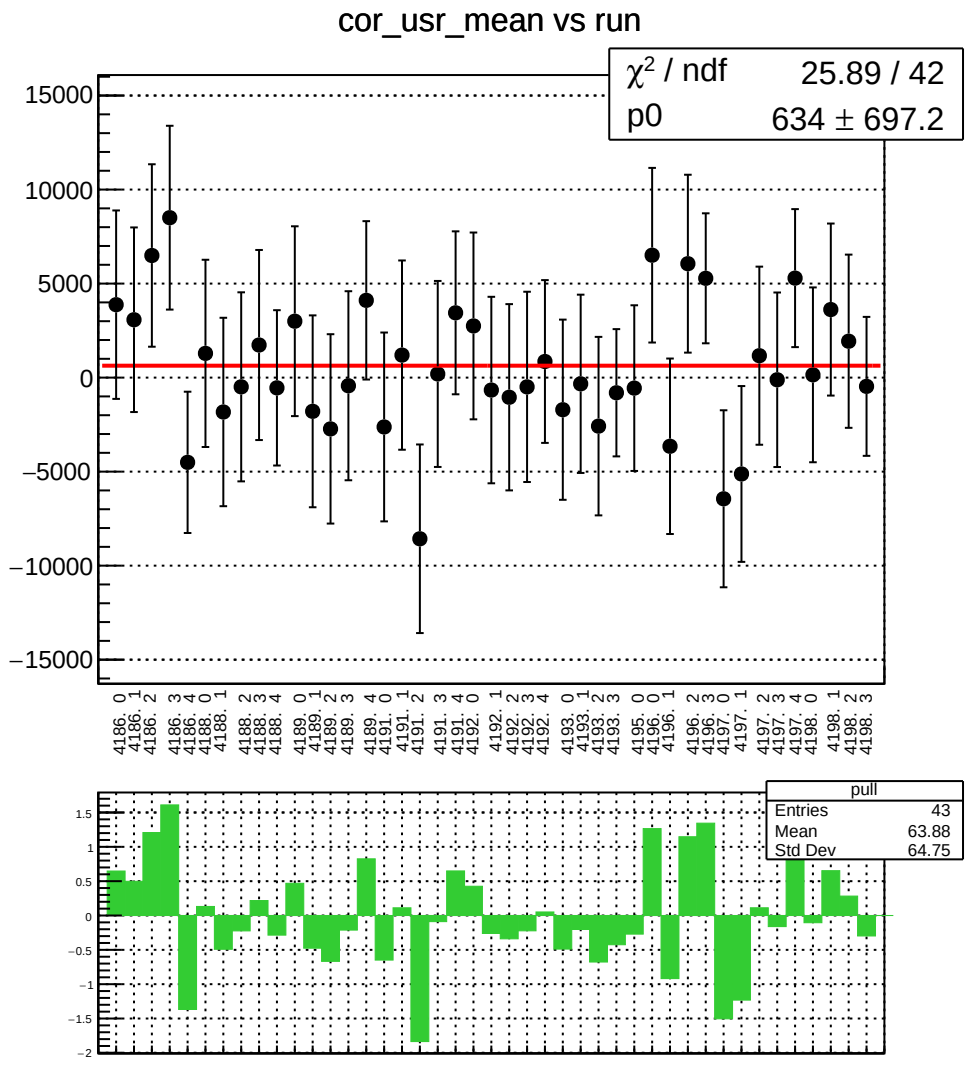

pull1D
Entries 43
Mean 0.01487
Std Dev 0.7778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

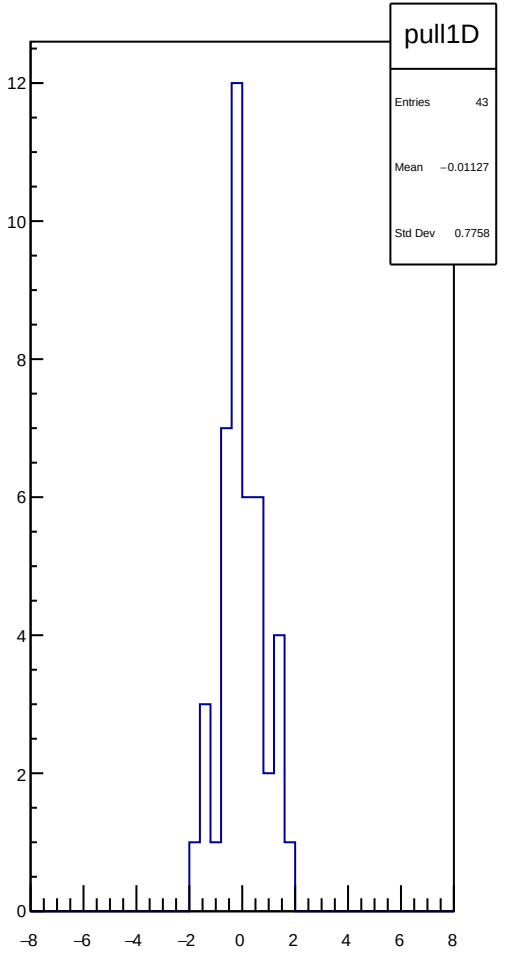

asym_right_dd_rms vs run
χ² / ndf 304.7 / 42
p0 39.37 ± 0.04225
41
40
39
38
37
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

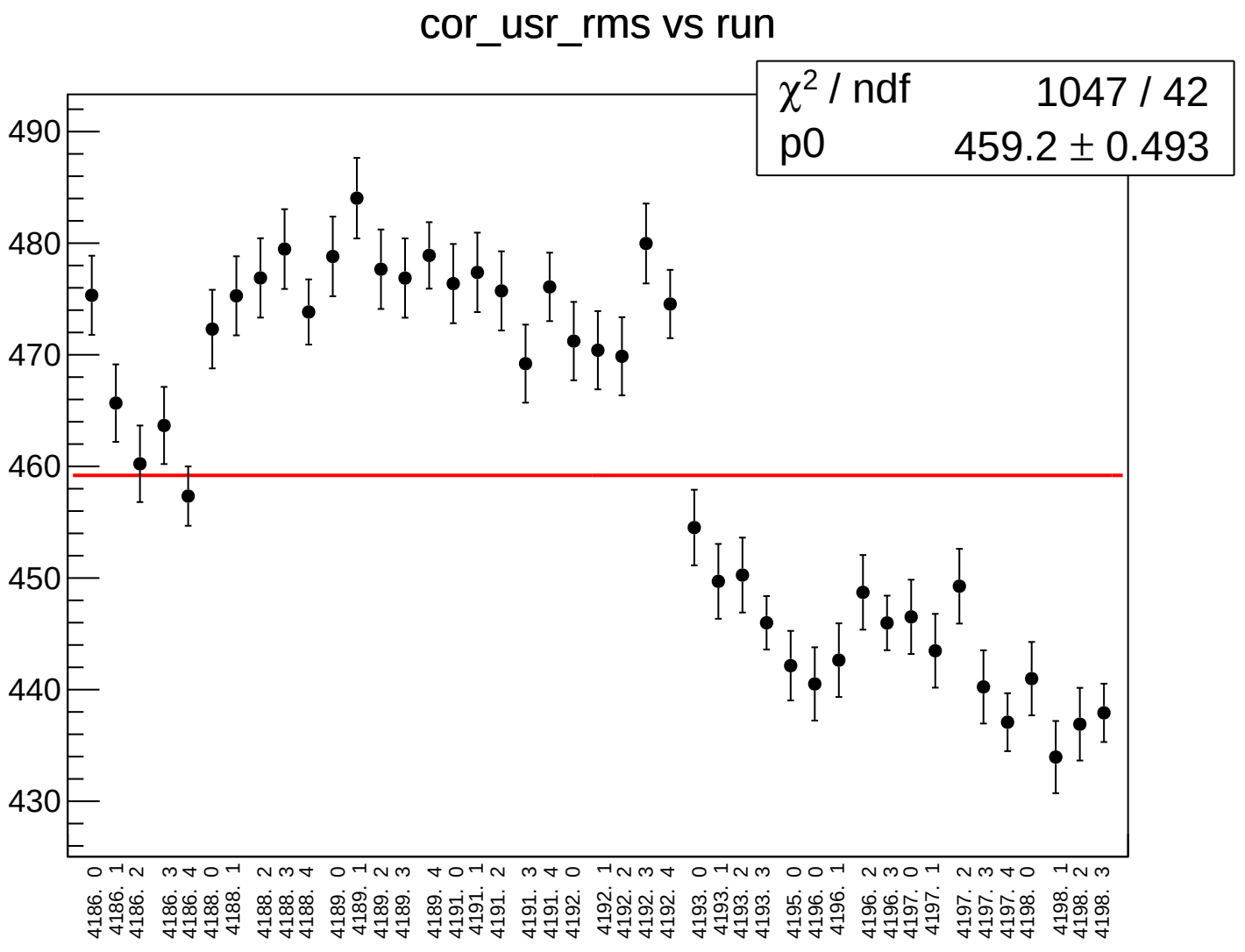

cor_usl_mean vs run
χ² / ndf 35.68 / 42
p0 −600.1 ± 813.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 130.4
Std Dev 122.4
2
1
0
−1
−2

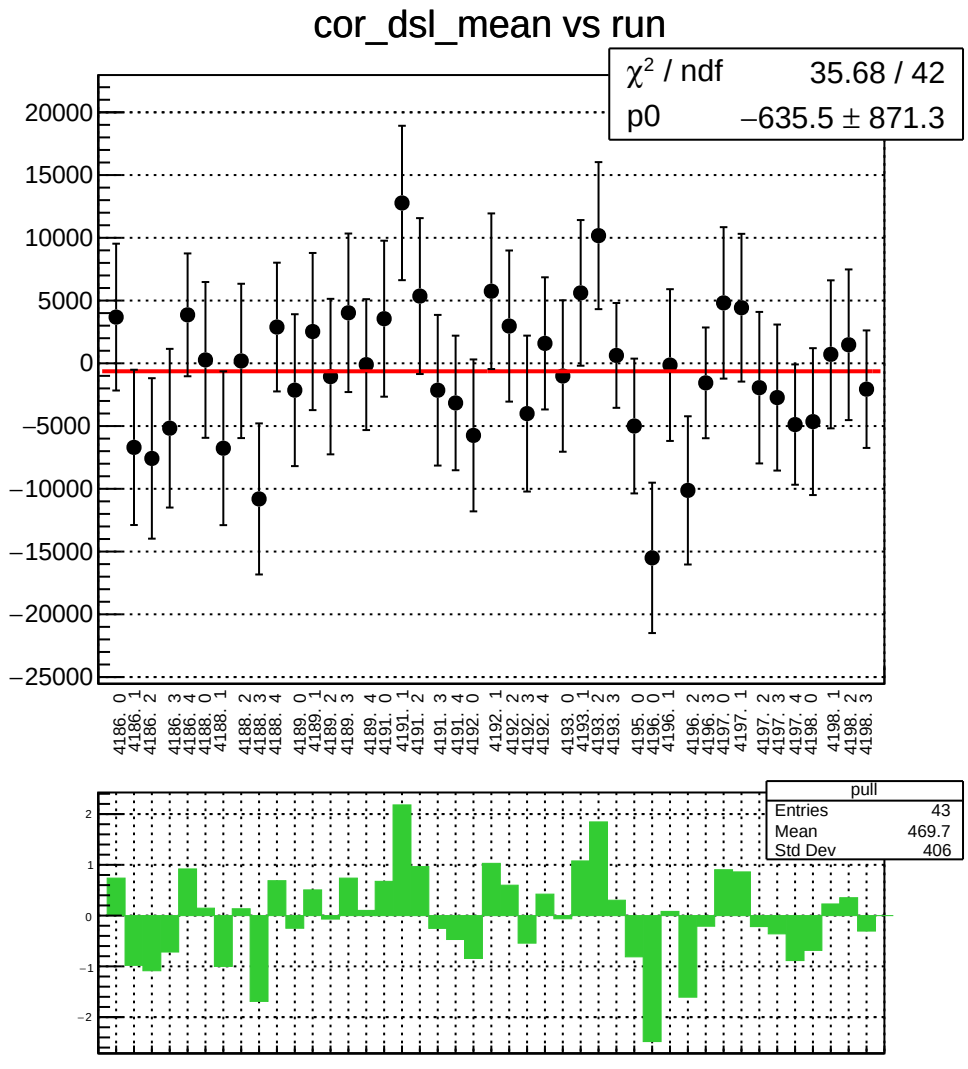

pull1D
Entries 43
Mean −0.001091
Std Dev 0.9109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

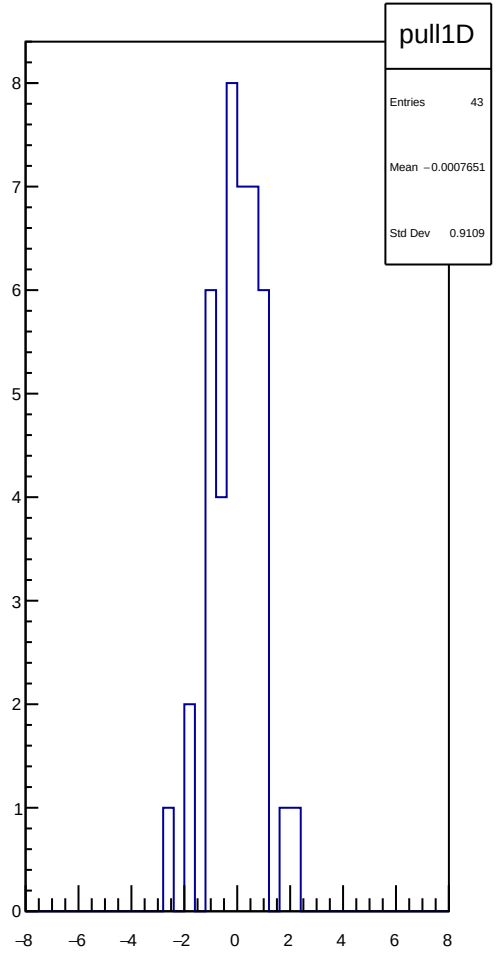

cor_usl_rms vs run
χ² / ndf 613.7 / 42
p0 536.1 ± 0.5754
570
560
550
540
530
520
510
500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

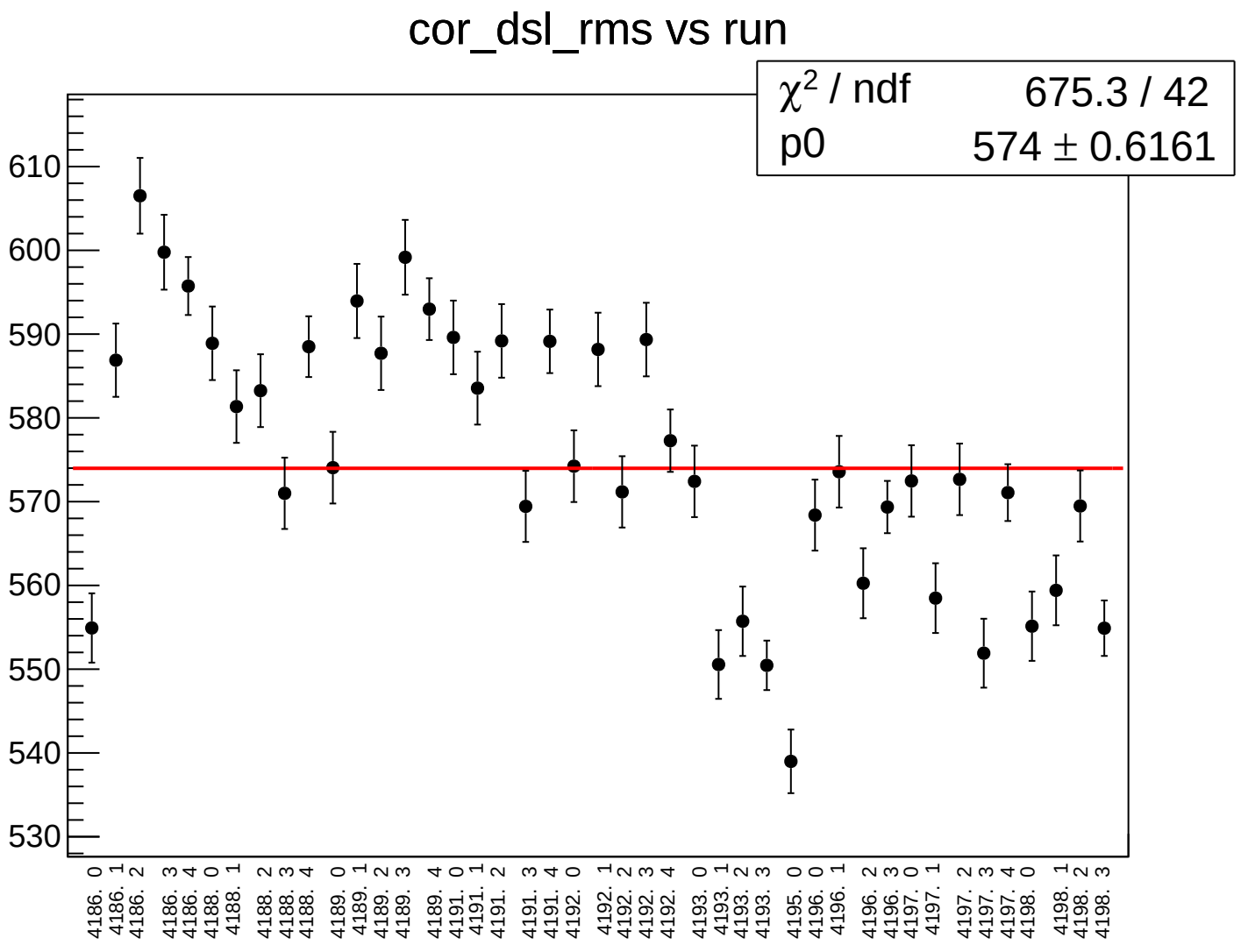

cor_usr_mean vs run
χ² / ndf 25.89 / 42
p0 634 ± 697.2
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 63.88
Std Dev 64.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

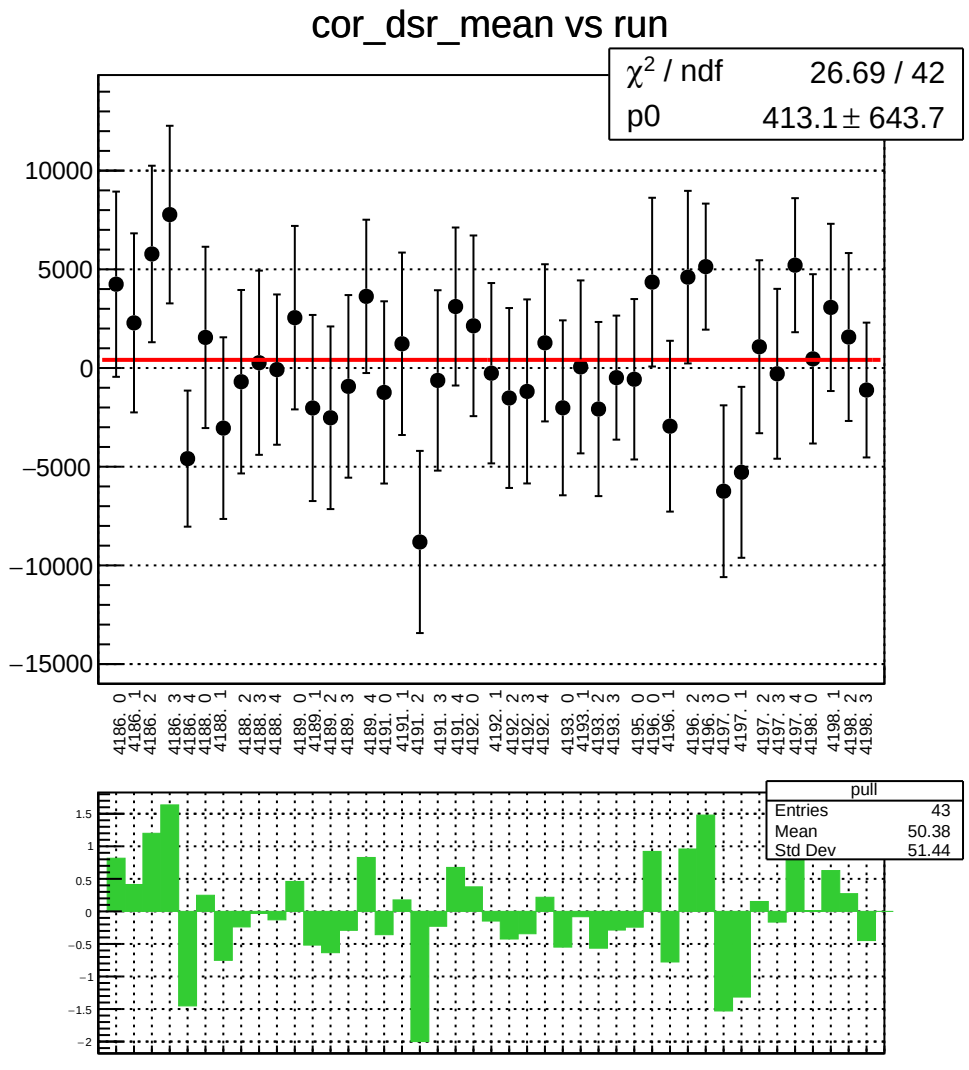

pull1D
Entries 43
Mean −0.01127
Std Dev 0.7758
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

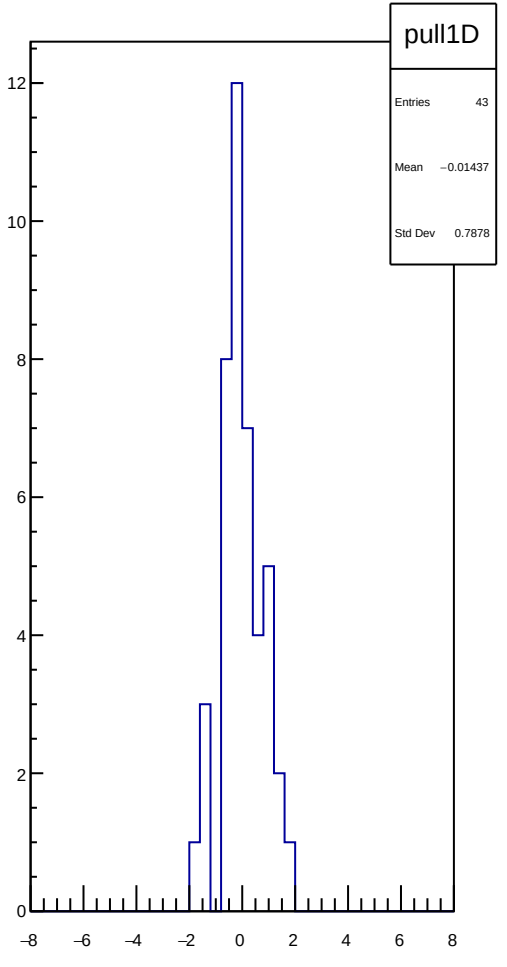

cor_usr_rms vs run
χ² / ndf 1047 / 42
p0 459.2 ± 0.493
490
480
470
460
450
440
430
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

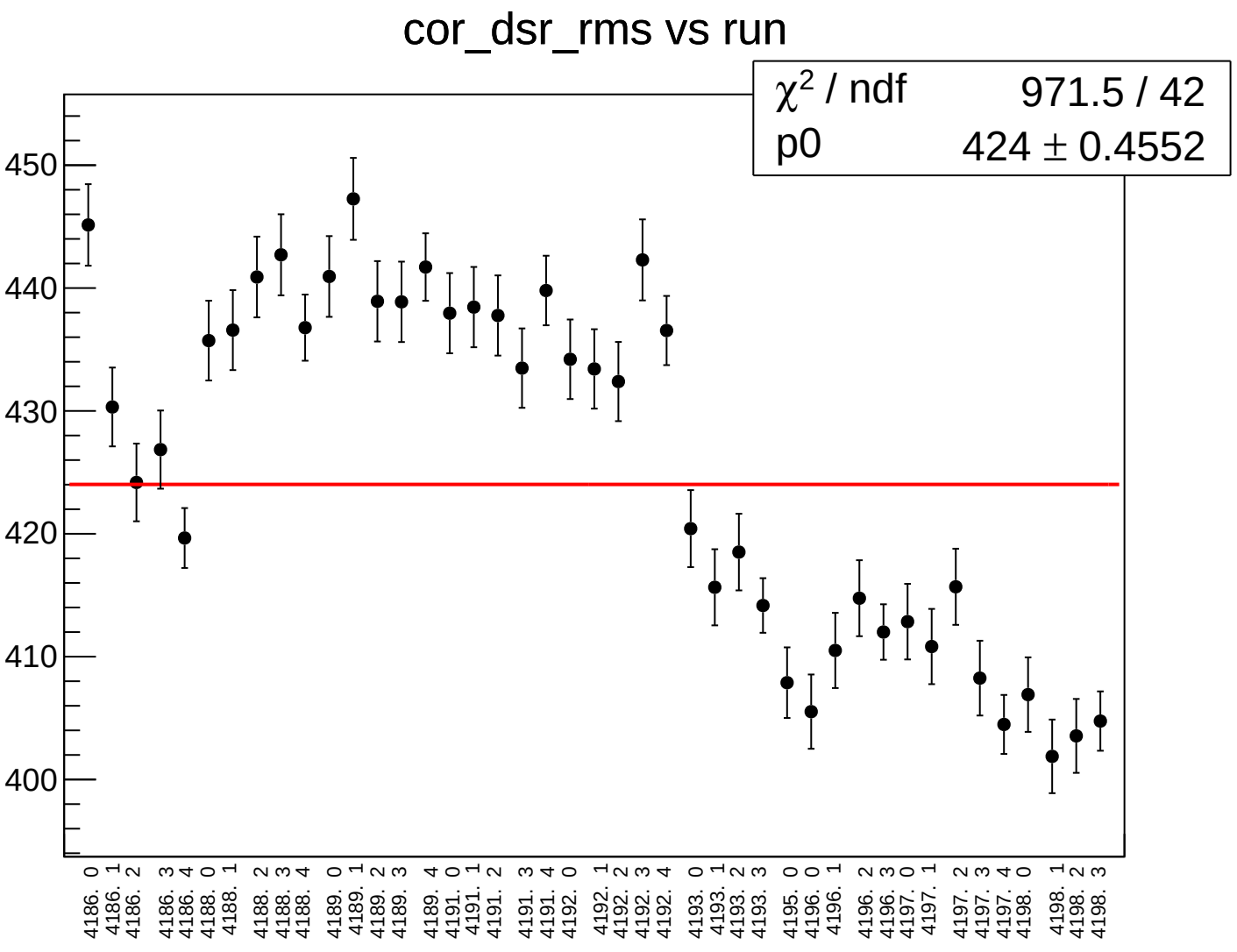

cor_dsl_mean vs run
χ² / ndf 35.68 / 42
p0 −635.5 ± 871.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 469.7
Std Dev 406
2
1
0
−1
−2

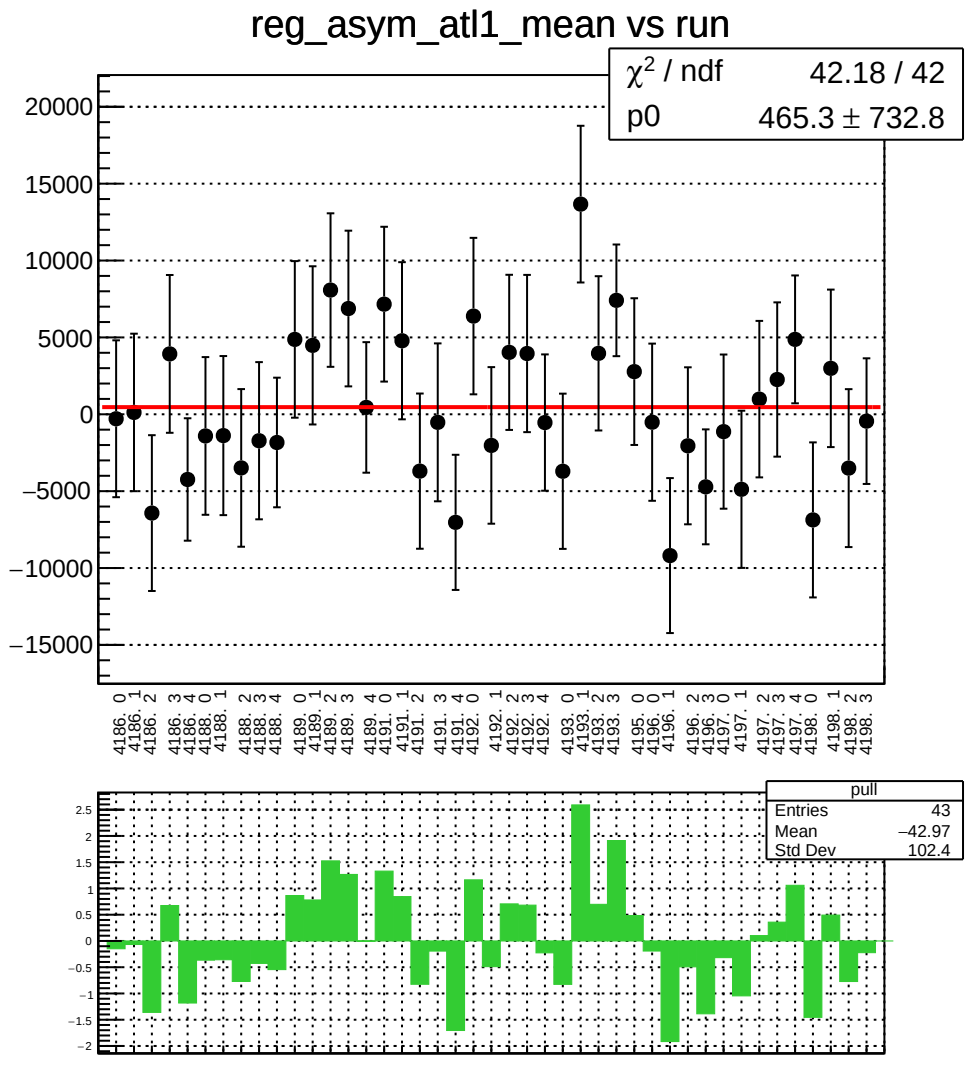

pull1D
Entries 43
Mean −0.0007651
Std Dev 0.9109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

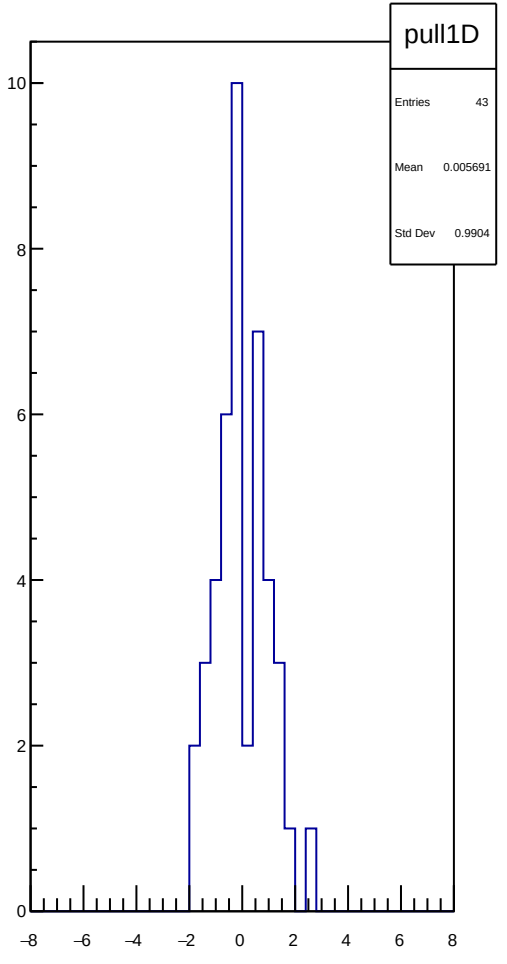

cor_dsl_rms vs run
χ² / ndf 675.3 / 42
p0 574 ± 0.6161
610
600
590
580
570
560
550
540
530
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

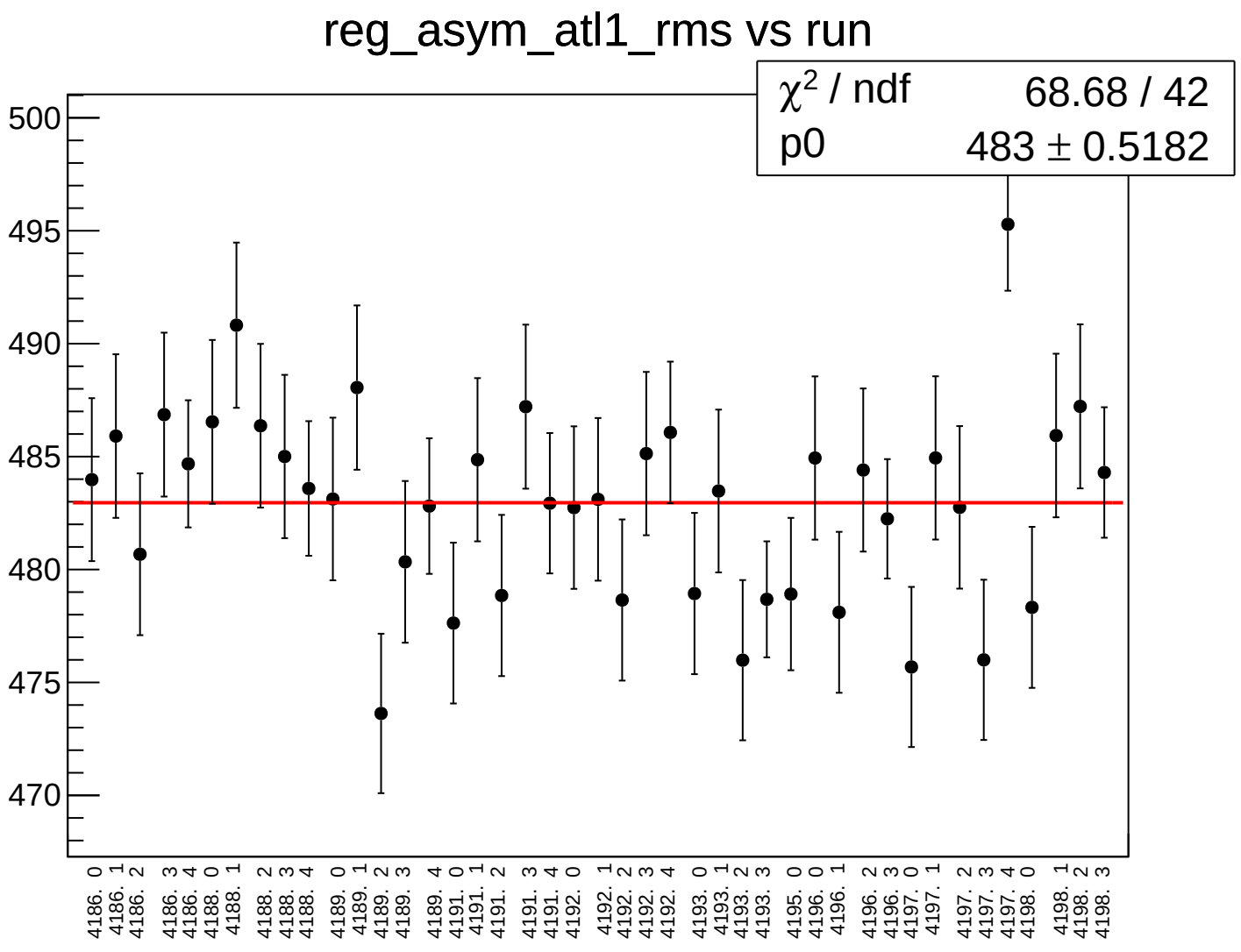

cor_dsr_mean vs run
χ² / ndf 26.69 / 42
p0 413.1 ± 643.7
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 50.38
Std Dev 51.44
1.5
1
0.5
0
−0.5
−1
−1.5
−2

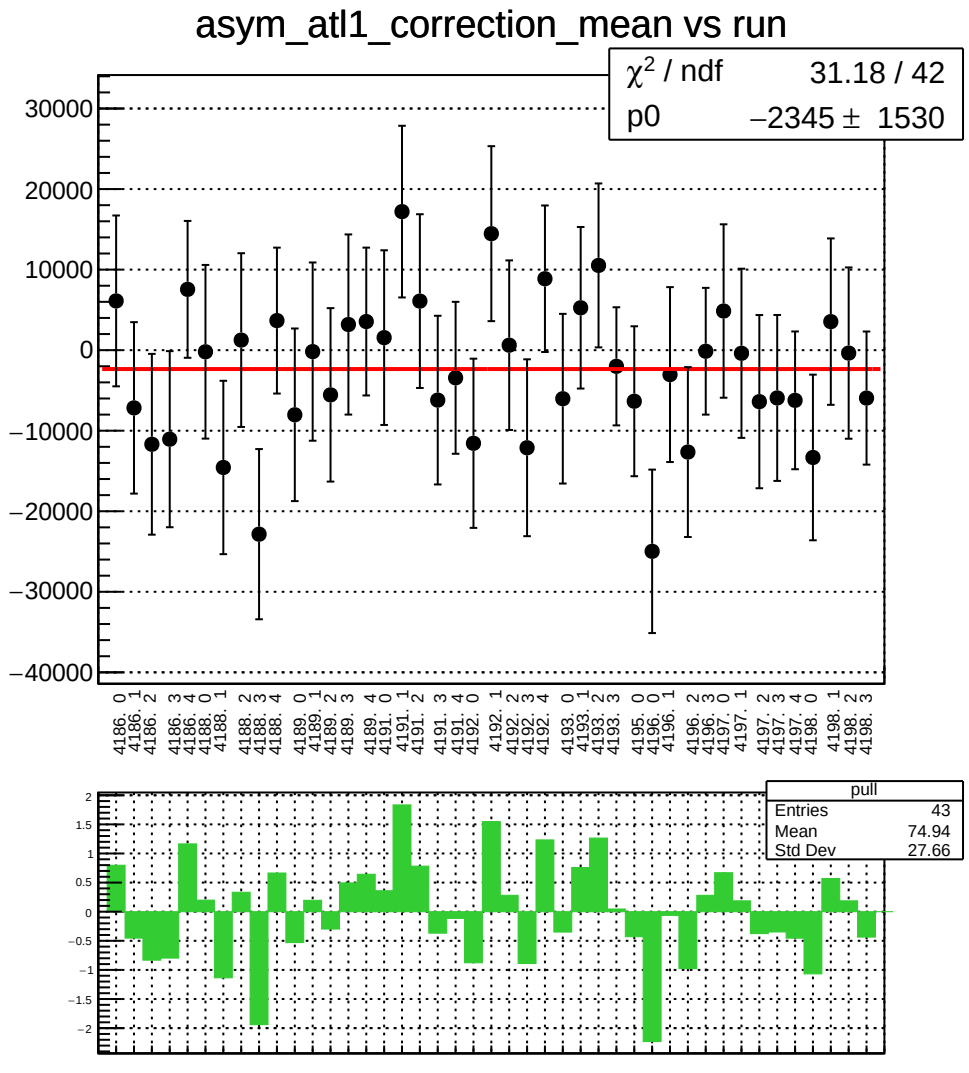

pull1D
Entries 43
Mean −0.01437
Std Dev 0.7878
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

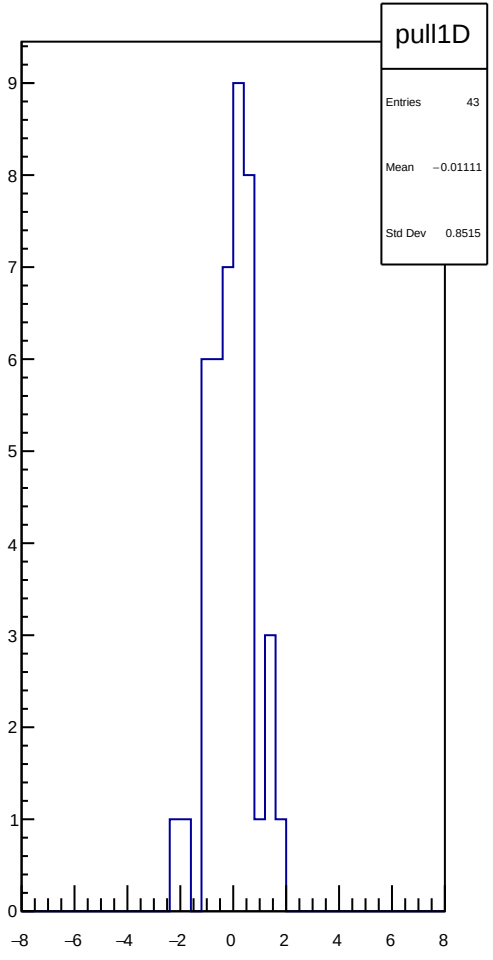

cor_dsr_rms vs run
χ^2 / ndf 971.5 / 42
p0 424 ± 0.4552
450
440
430
420
410
400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

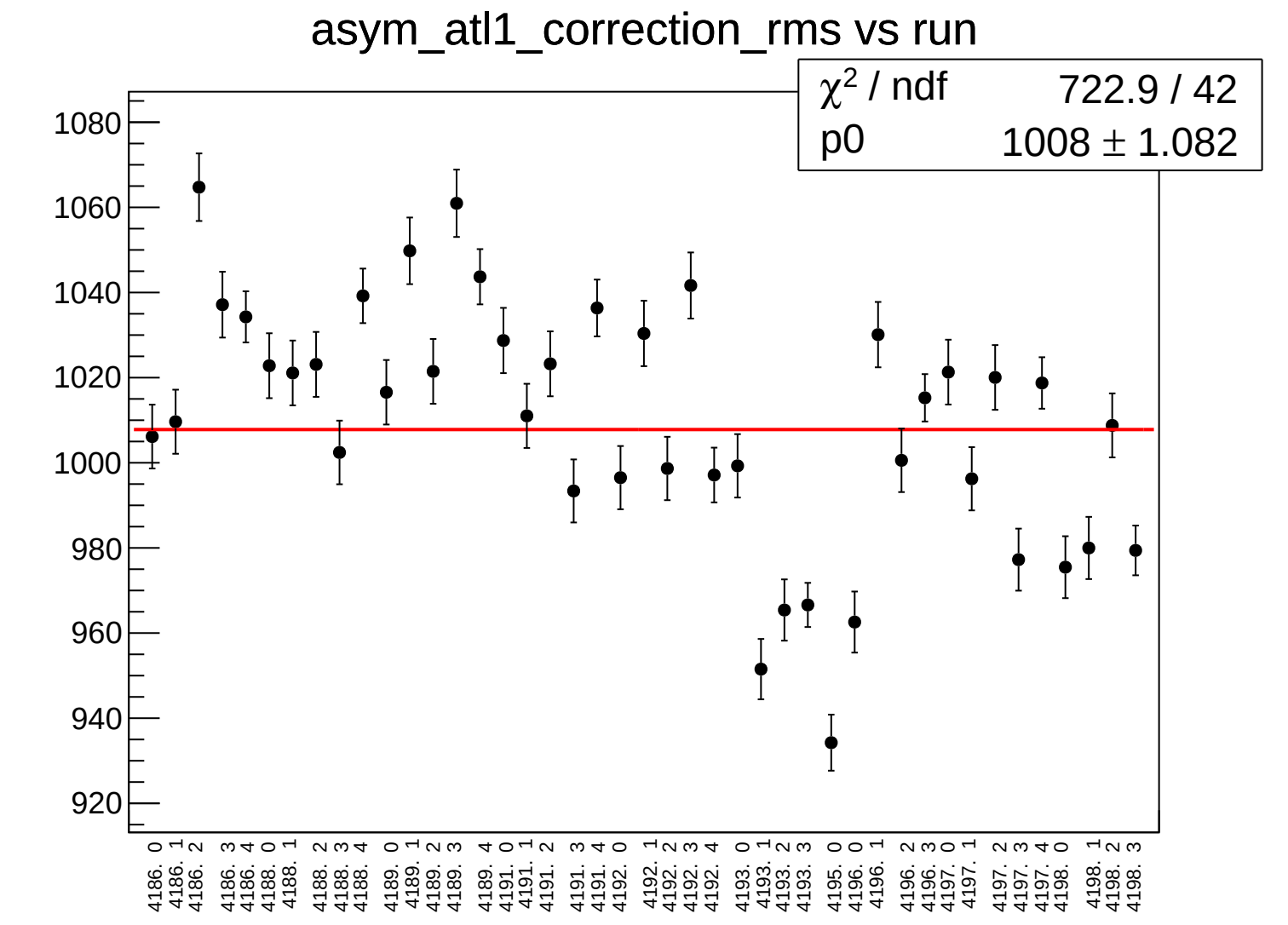

reg_asym_atl1_mean vs run
χ² / ndf 42.18 / 42
p0 465.3 ± 732.8
20000
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −42.97
Std Dev 102.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

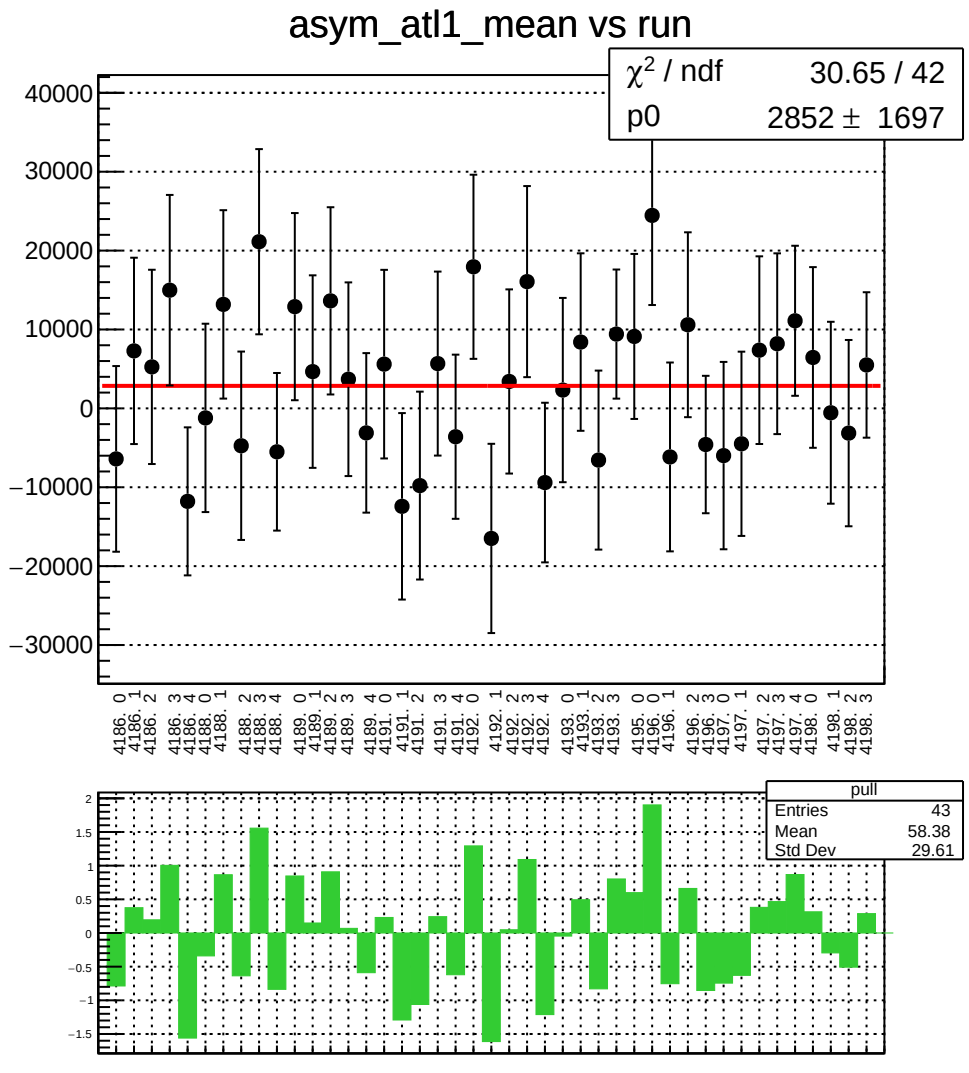

pull1D
Entries 43
Mean 0.005691
Std Dev 0.9904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

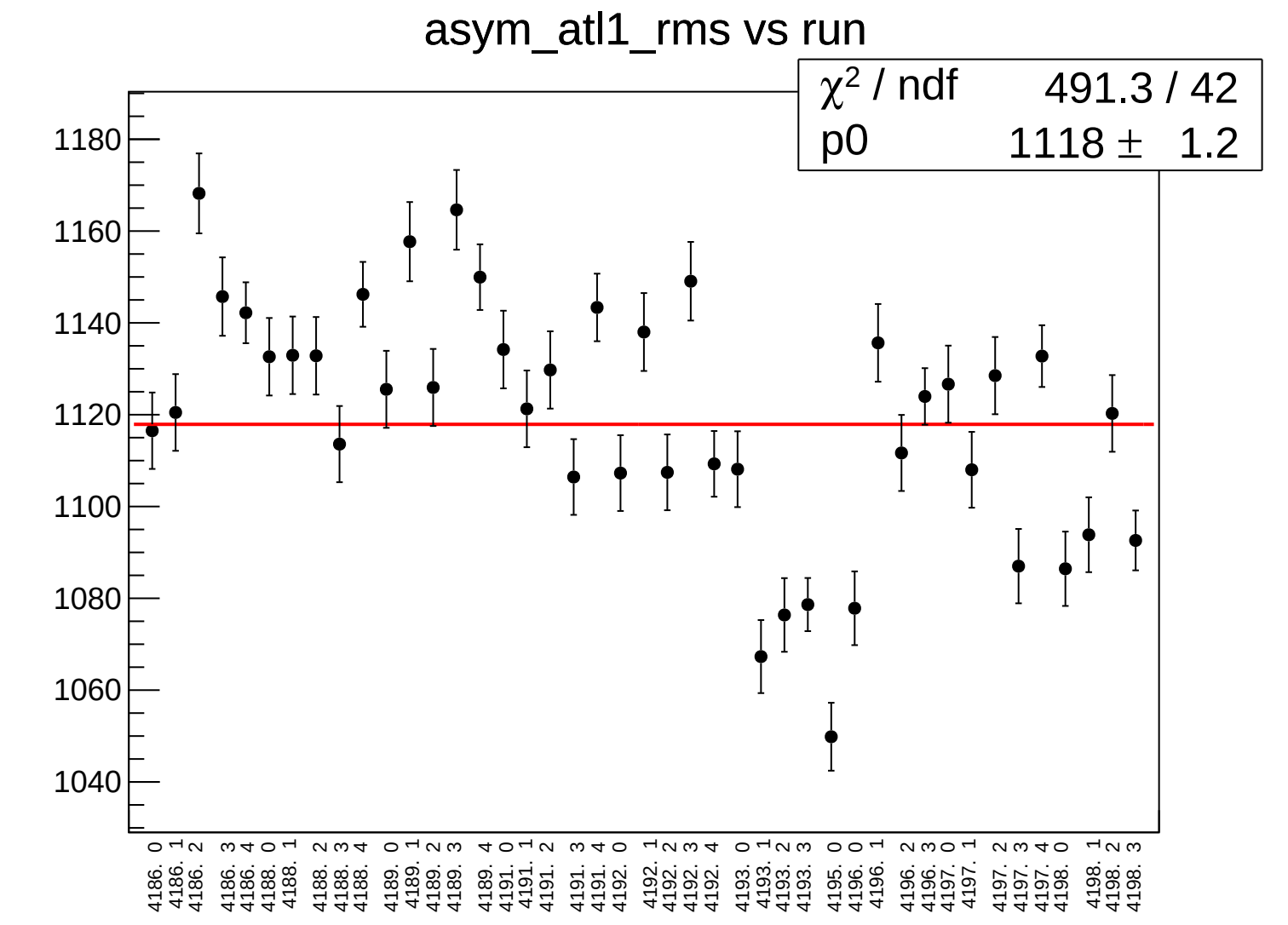

reg_asym_atl1_rms vs run
χ² / ndf 68.68 / 42
p0 483 ± 0.5182
500
495
490
485
480
475
470
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

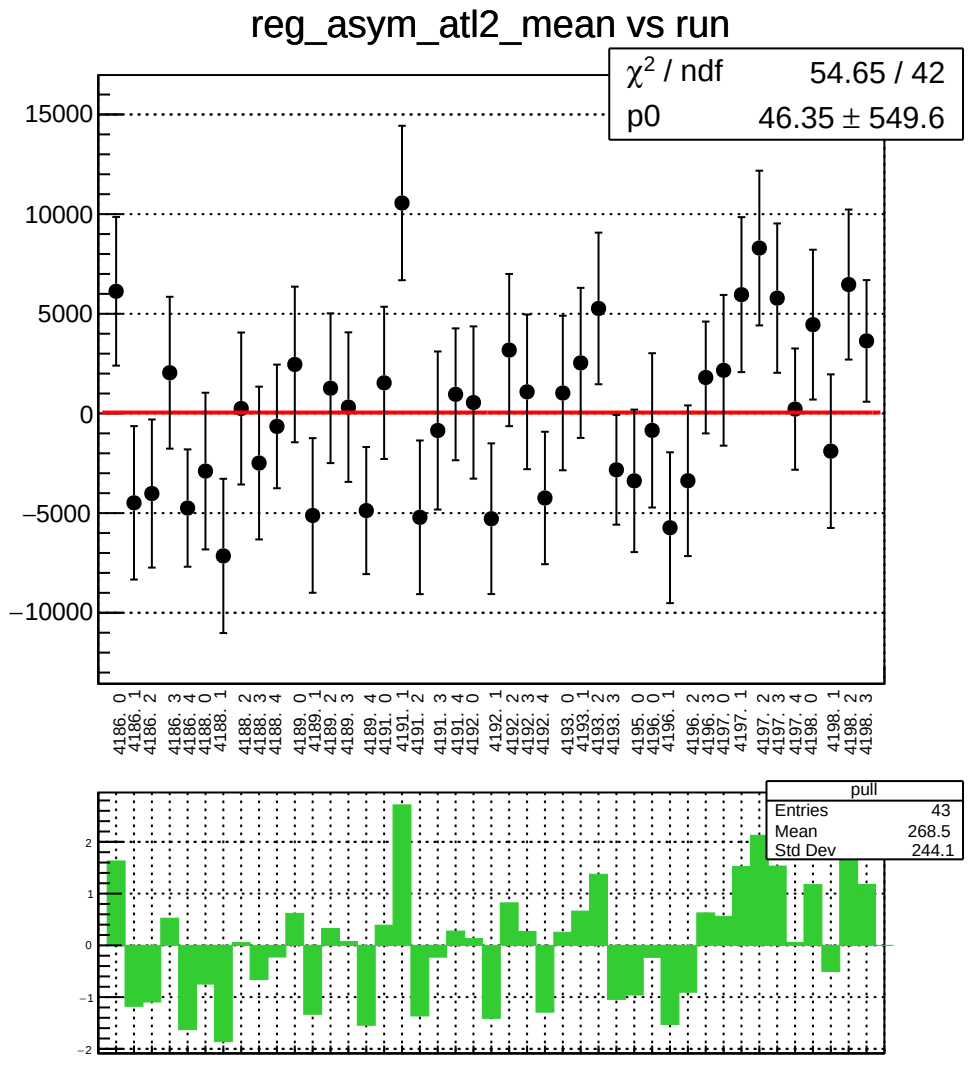

asym_atl1_correction_mean vs run
χ² / ndf 31.18 / 42
p0 −2345 ± 1530
30000
20000
10000
0
−10000
−20000
−30000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 74.94
Std Dev 27.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

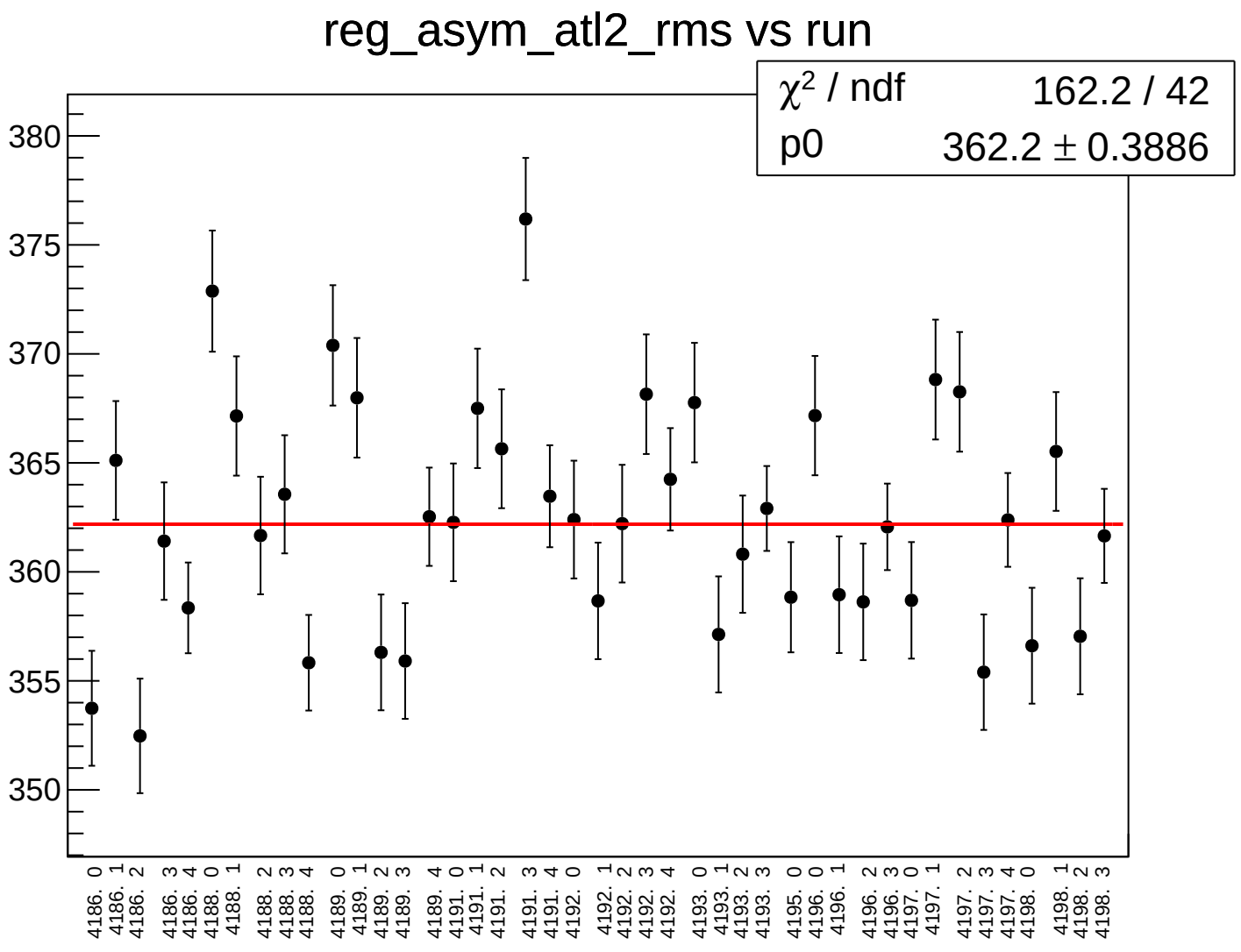

pull1D
Entries 43
Mean −0.01111
Std Dev 0.8515
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

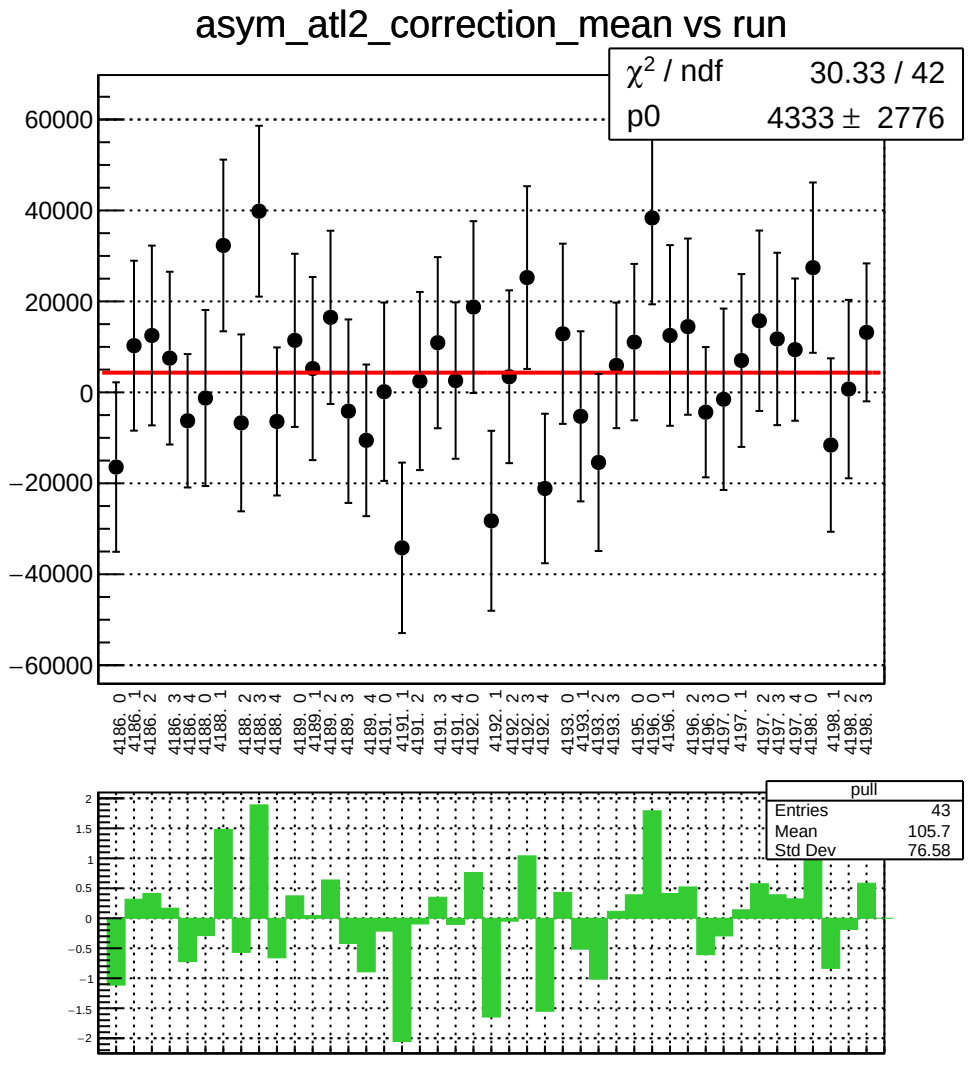

asym_atl1_correction_rms vs run
χ² / ndf 722.9 / 42
p0 1008 ± 1.082
1080
1060
1040
1020
1000
980
960
940
920
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

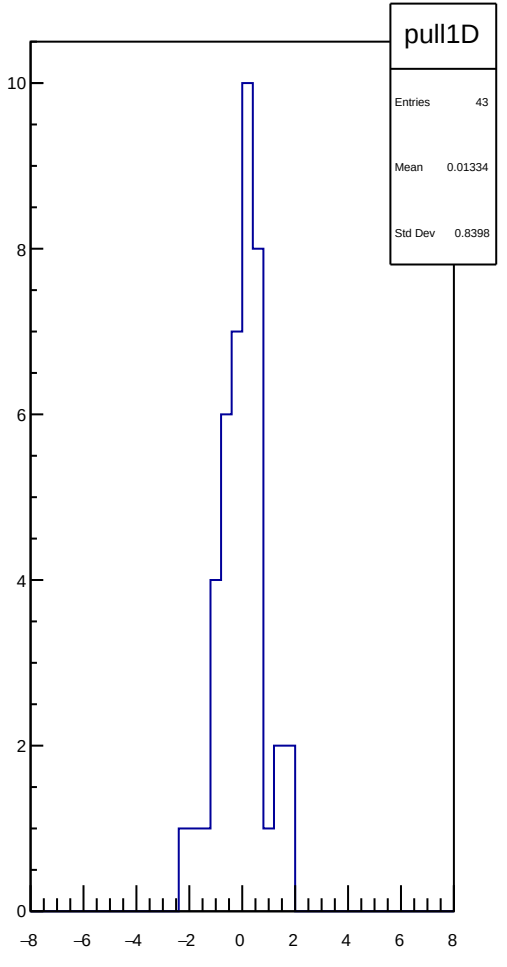

asym_atl1_mean vs run
χ² / ndf 30.65 / 42
p0 2852 ± 1697
40000
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 58.38
Std Dev 29.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01033
Std Dev 0.8442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

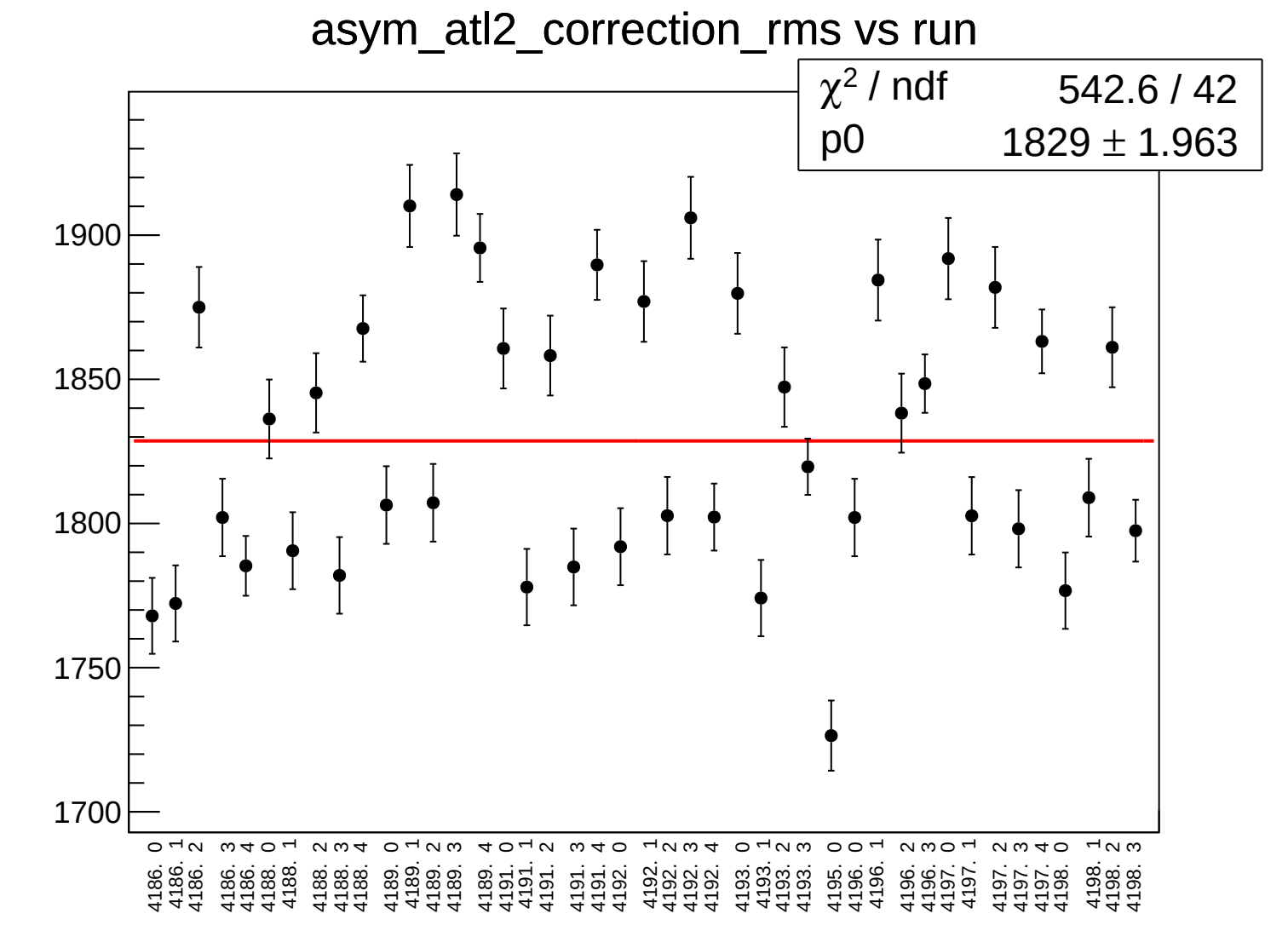

asym_atl1_rms vs run
χ² / ndf 491.3 / 42
p0 1118 ± 1.2
1180
1160
1140
1120
1100
1080
1060
1040
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

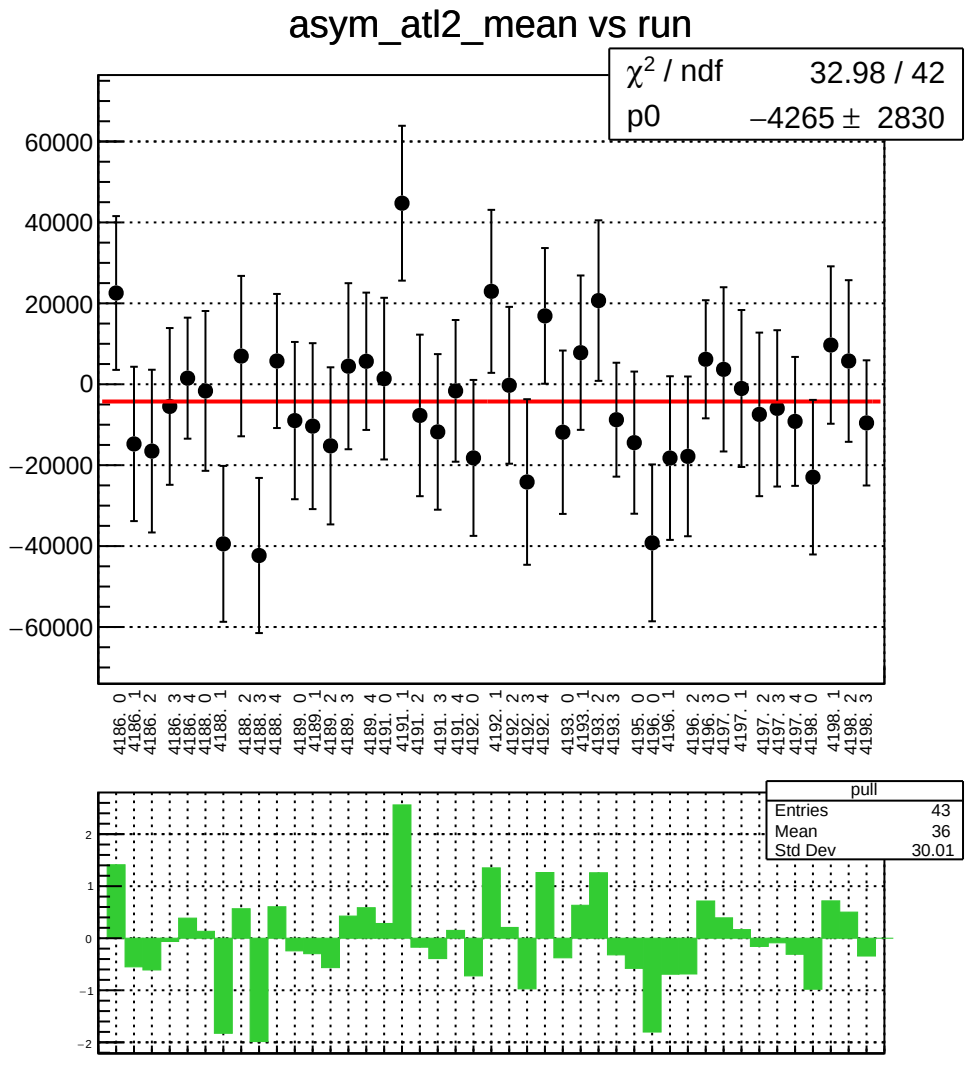

reg_asym_atl2_mean vs run
χ² / ndf 54.65 / 42
p0 46.35 ± 549.6
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 268.5
Std Dev 244.1
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02012
Std Dev 1.127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

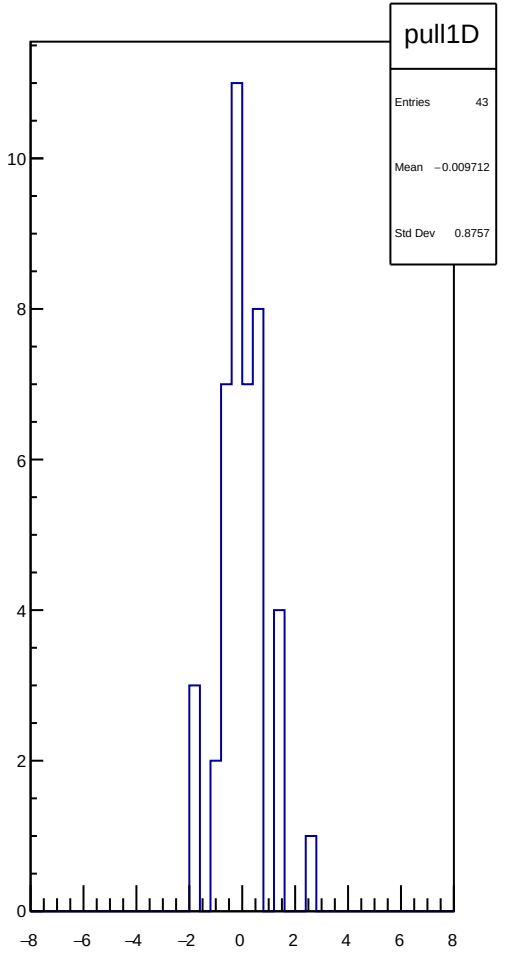

reg_asym_atl2_rms vs run
χ² / ndf 162.2 / 42
p0 362.2 ± 0.3886
380
375
370
365
360
355
350
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

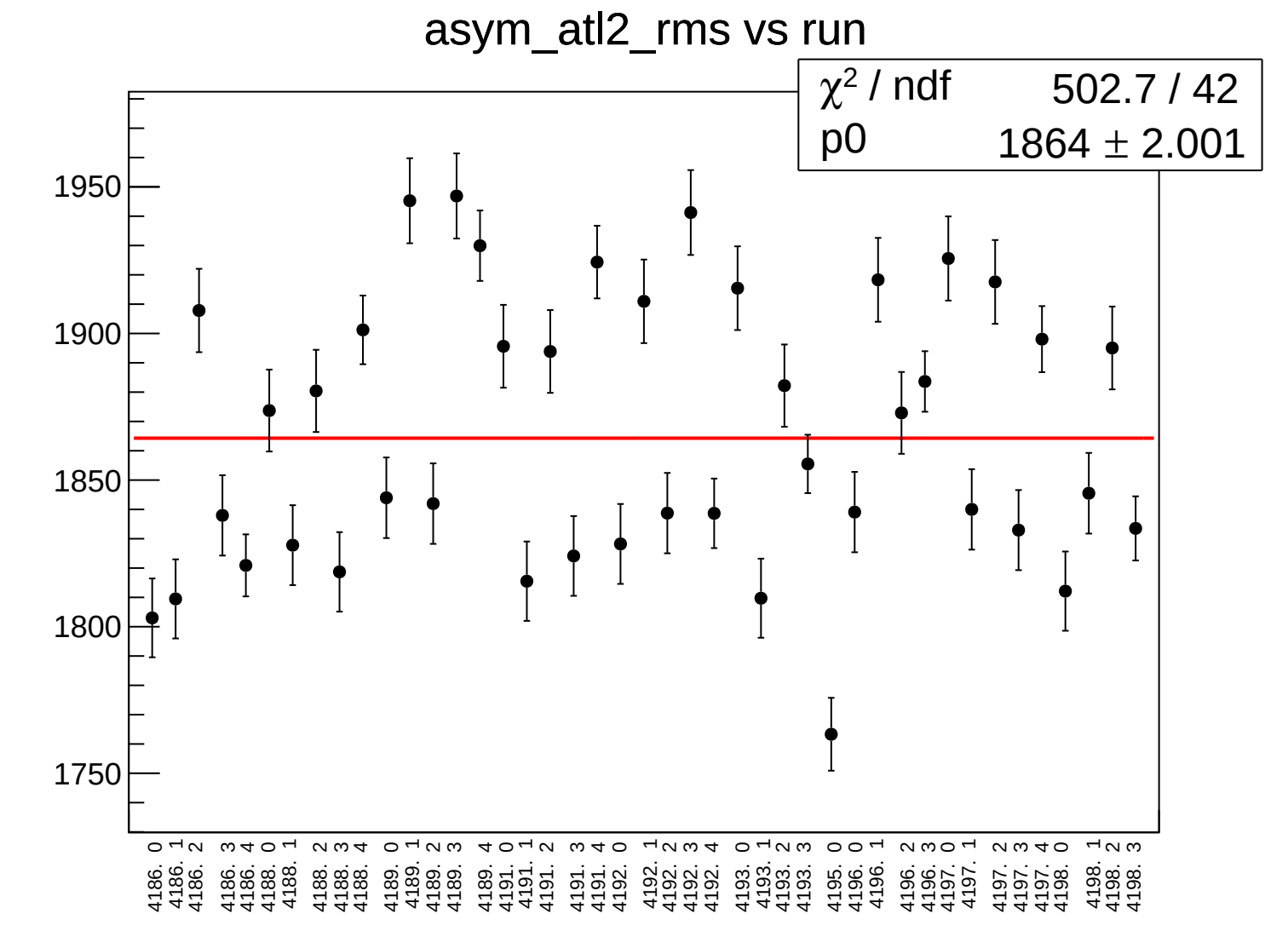

asym_atl2_correction_mean vs run
χ² / ndf 30.33 / 42
p0 4333 ± 2776
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 105.7
Std Dev 76.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

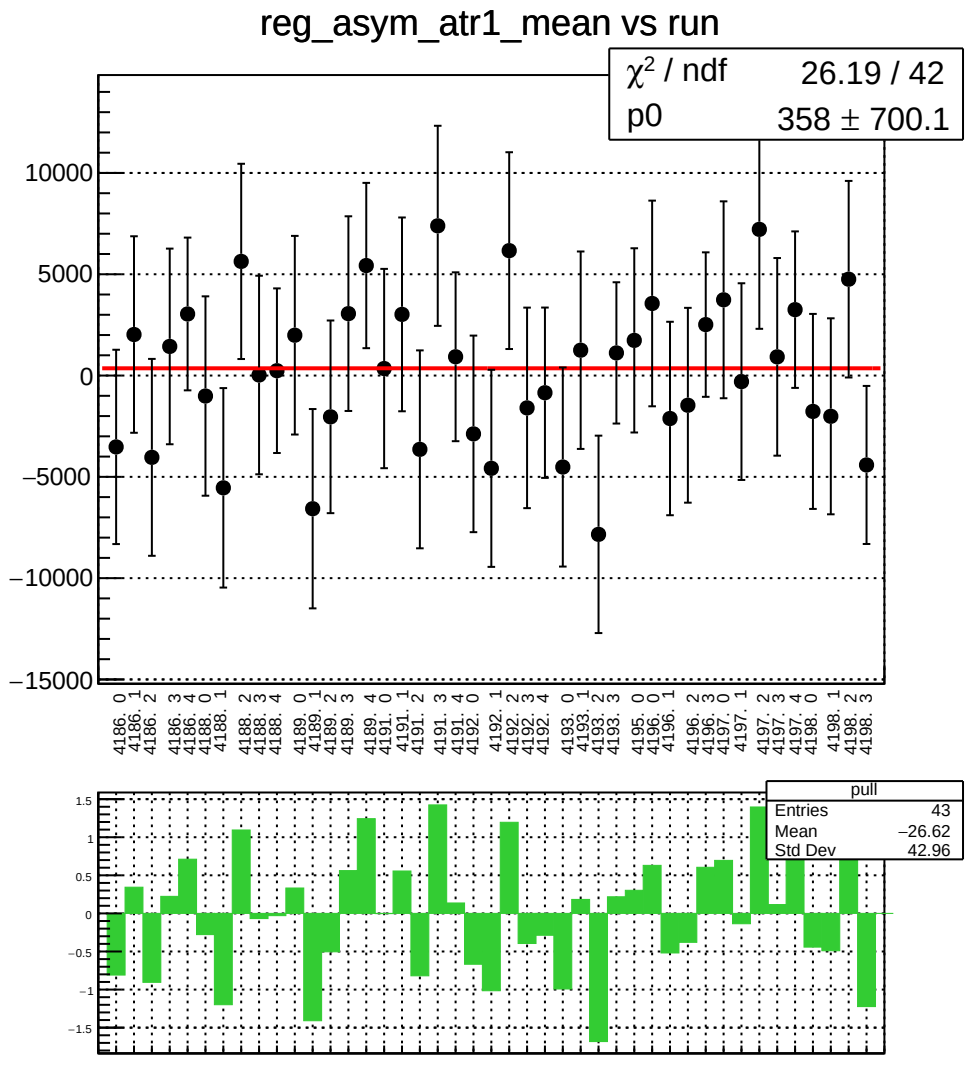

pull1D
Entries 43
Mean 0.01334
Std Dev 0.8398
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

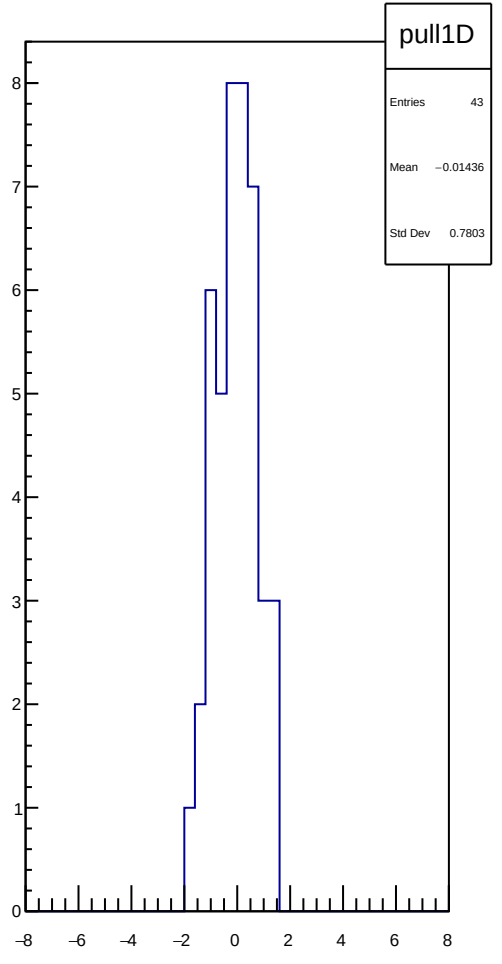

asym_atl2_correction_rms vs run
χ² / ndf 542.6 / 42
p0 1829 ± 1.963
1900
1850
1800
1750
1700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

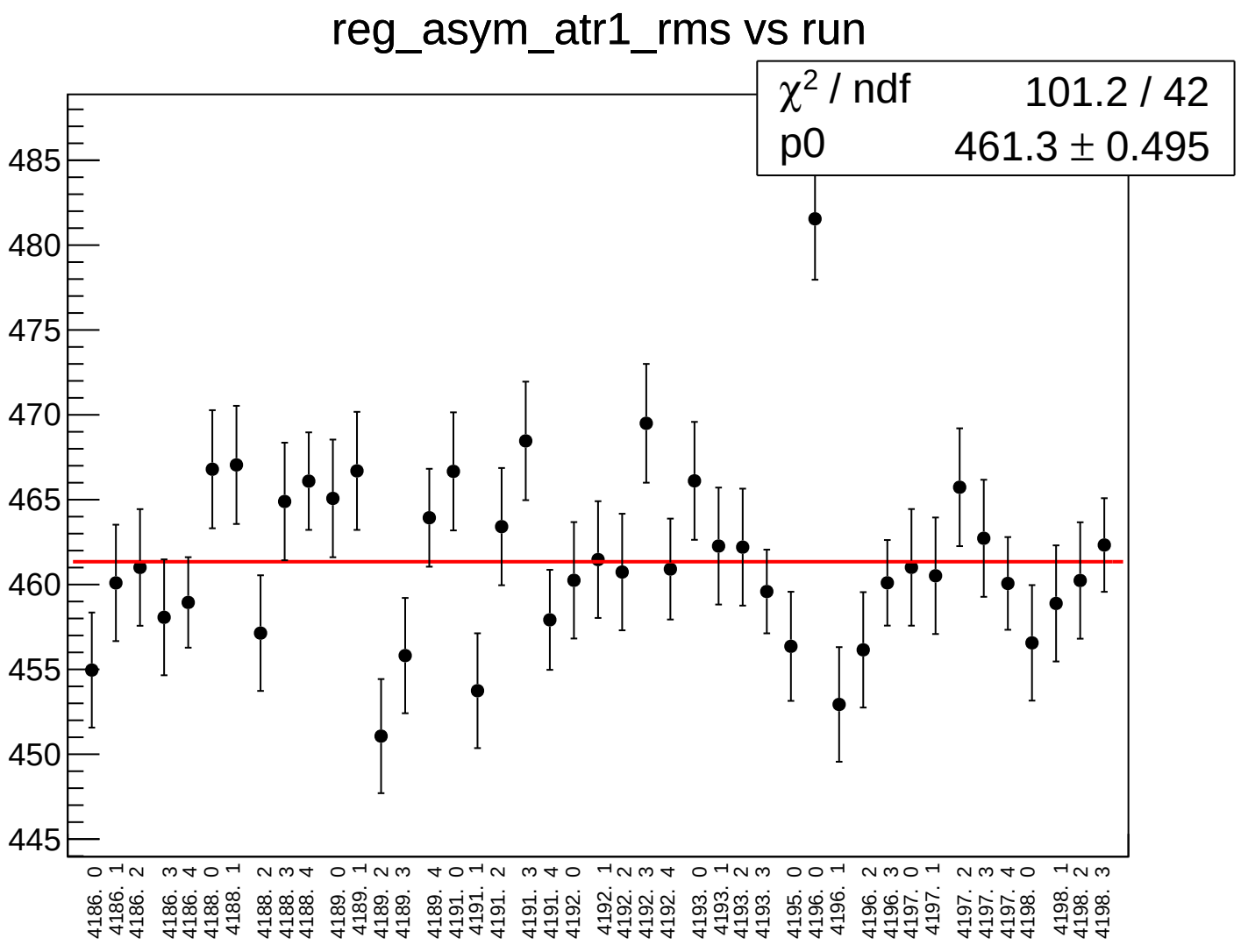

asym_atl2_mean vs run
χ² / ndf 32.98 / 42
p0 −4265 ± 2830
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 36
Std Dev 30.01
2
1
0
−1
−2

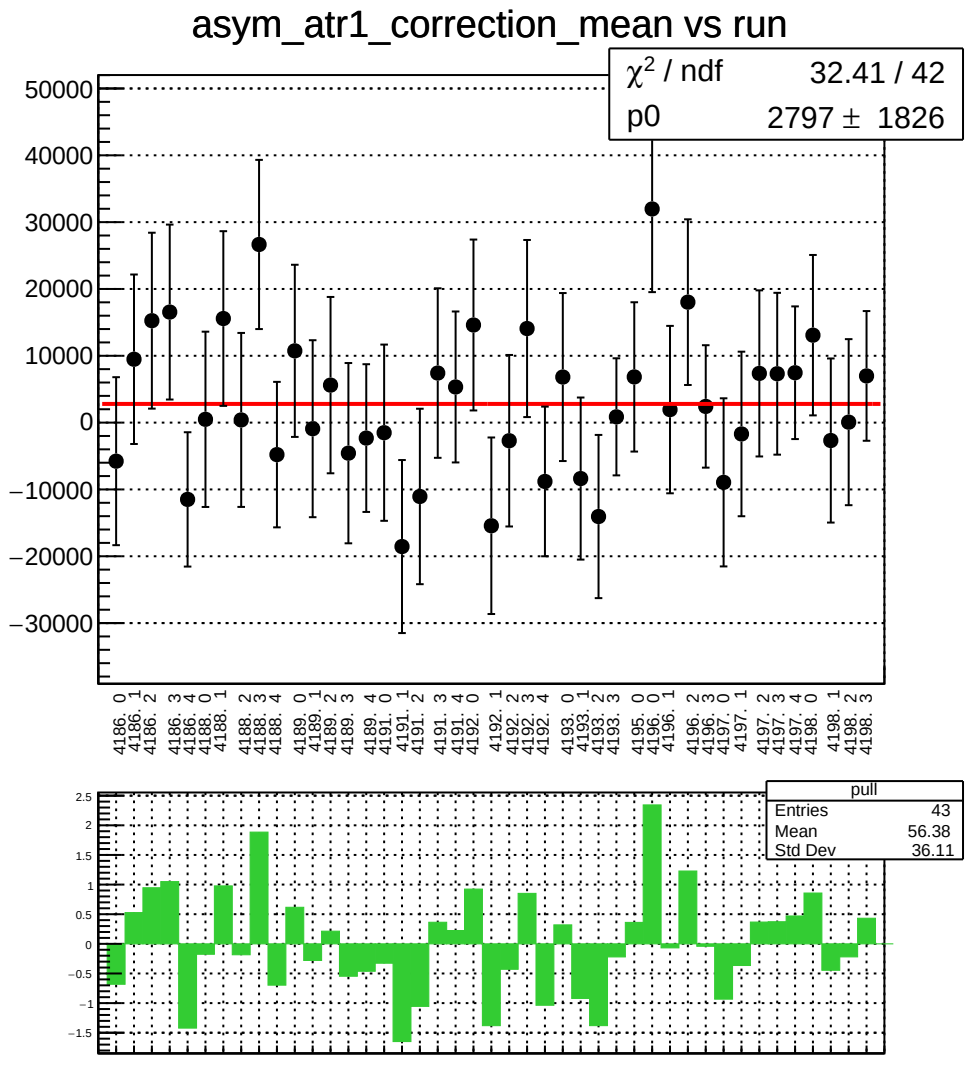

pull1D
Entries 43
Mean −0.009712
Std Dev 0.8757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

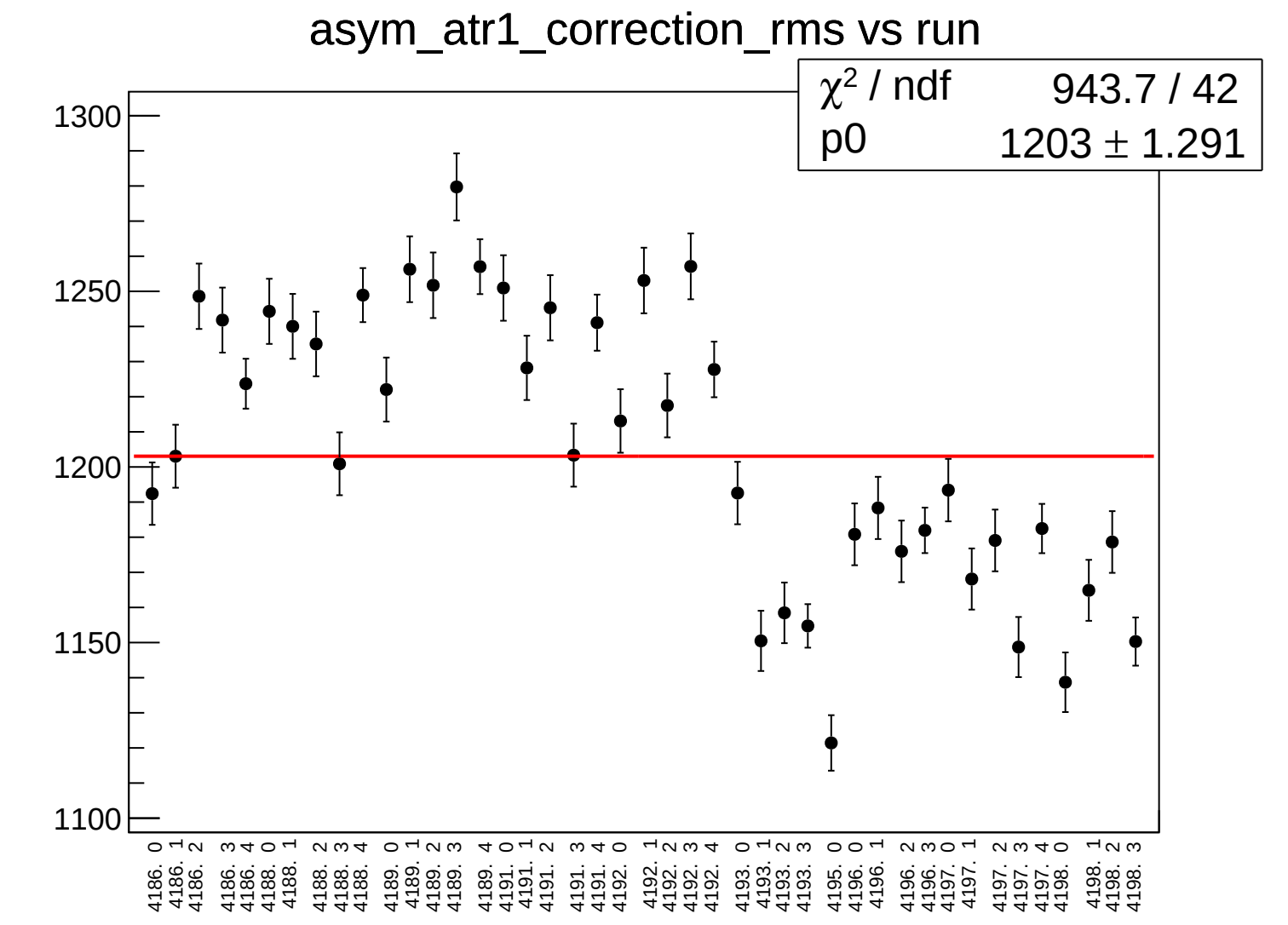

asym_atl2_rms vs run
χ² / ndf 502.7 / 42
p0 1864 ± 2.001
1950
1900
1850
1800
1750
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

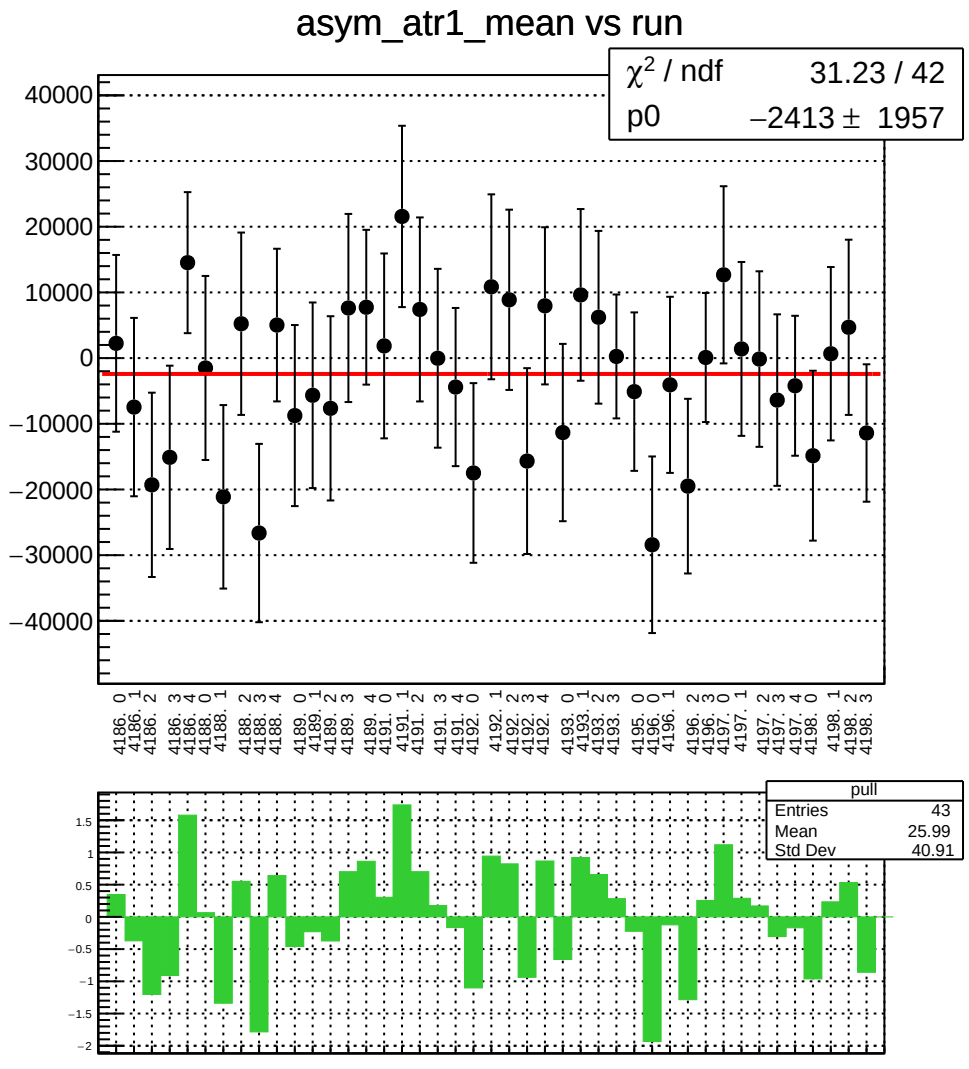

reg_asym_atr1_mean vs run
χ² / ndf 26.19 / 42
p0 358 ± 700.1
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −26.62
Std Dev 42.96
1.5
1
0.5
0
−0.5
−1
−1.5

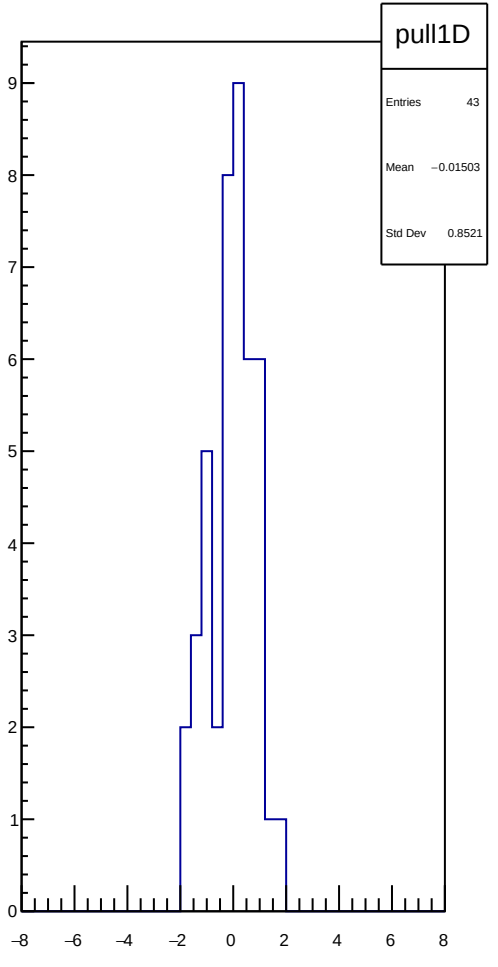

pull1D
Entries 43
Mean −0.01436
Std Dev 0.7803
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

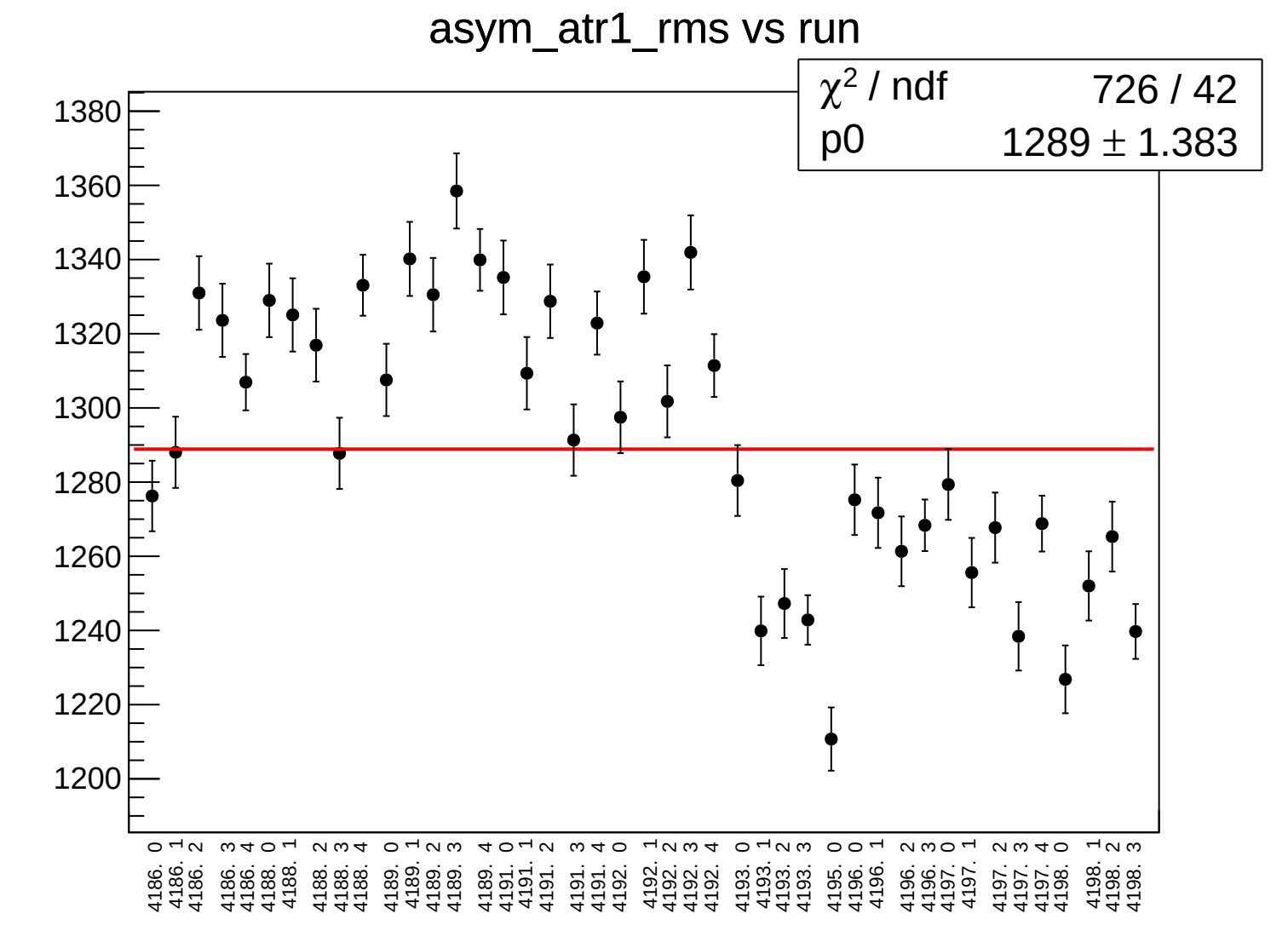

reg_asym_atr1_rms vs run
χ² / ndf 101.2 / 42
p0 461.3 ± 0.495
485
480
475
470
465
460
455
450
445
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

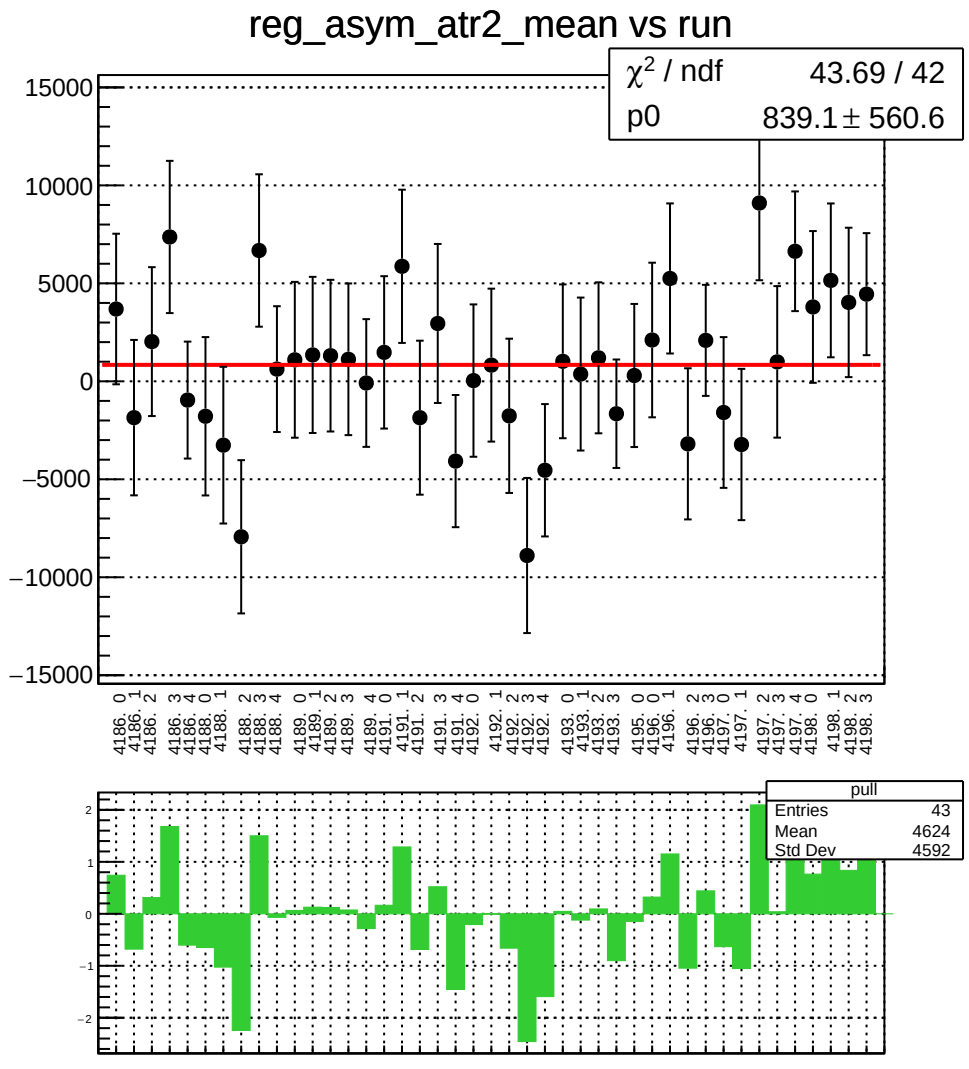

asym_atr1_correction_mean vs run
χ² / ndf 32.41 / 42
p0 2797 ± 1826
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 56.38
Std Dev 36.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.009675
Std Dev 0.8681
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

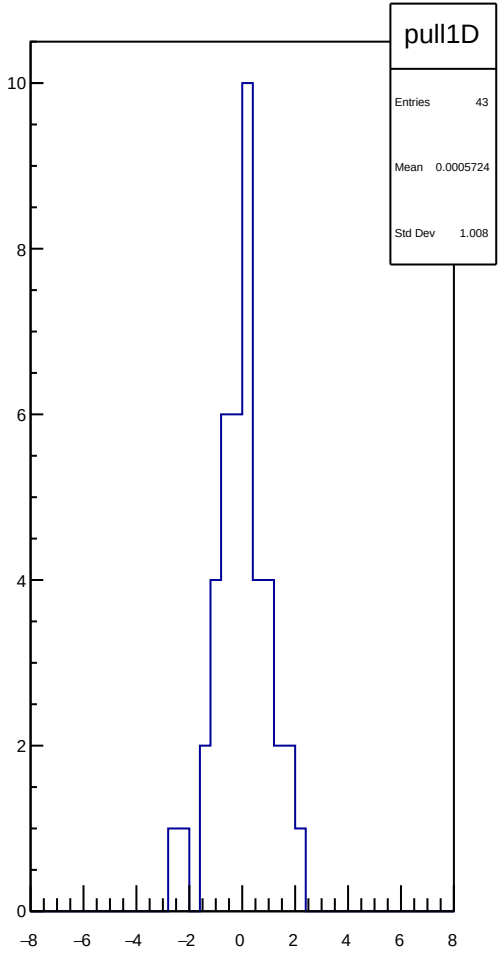

asym_atr1_correction_rms vs run
χ² / ndf 943.7 / 42
p0 1203 ± 1.291
1300
1250
1200
1150
1100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

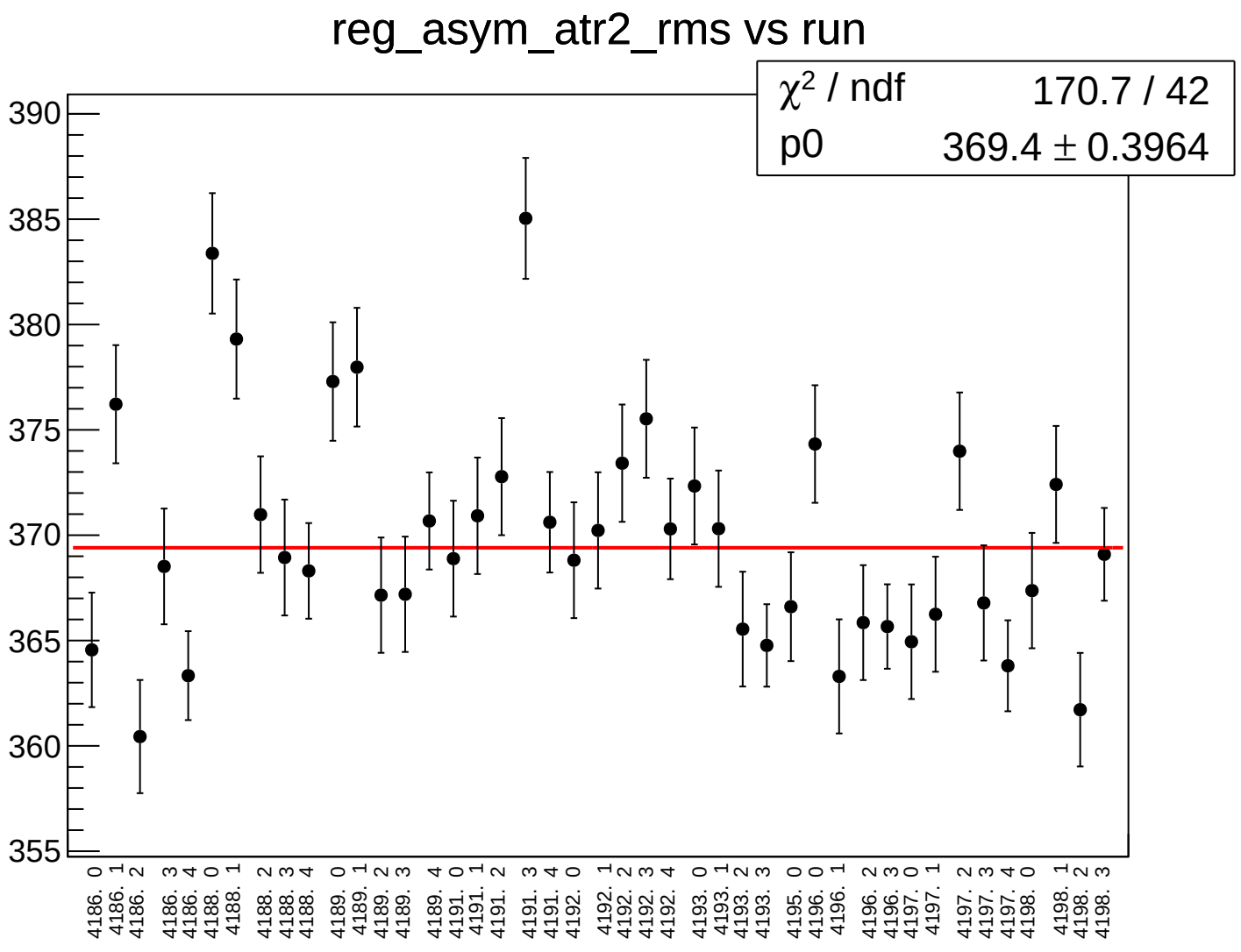

asym_atr1_mean vs run
χ² / ndf 31.23 / 42
p0 −2413 ± 1957
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 25.99
Std Dev 40.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2

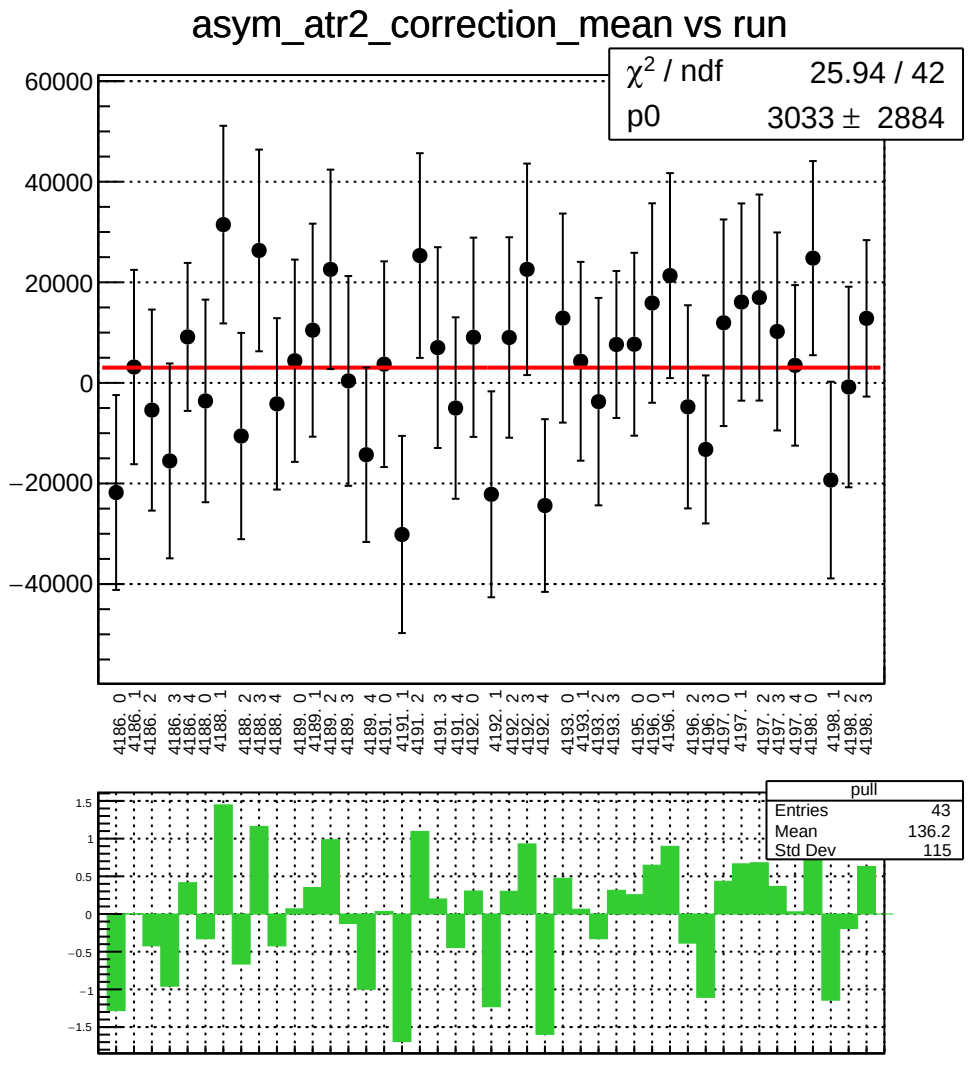

pull1D
Entries 43
Mean −0.01503
Std Dev 0.8521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

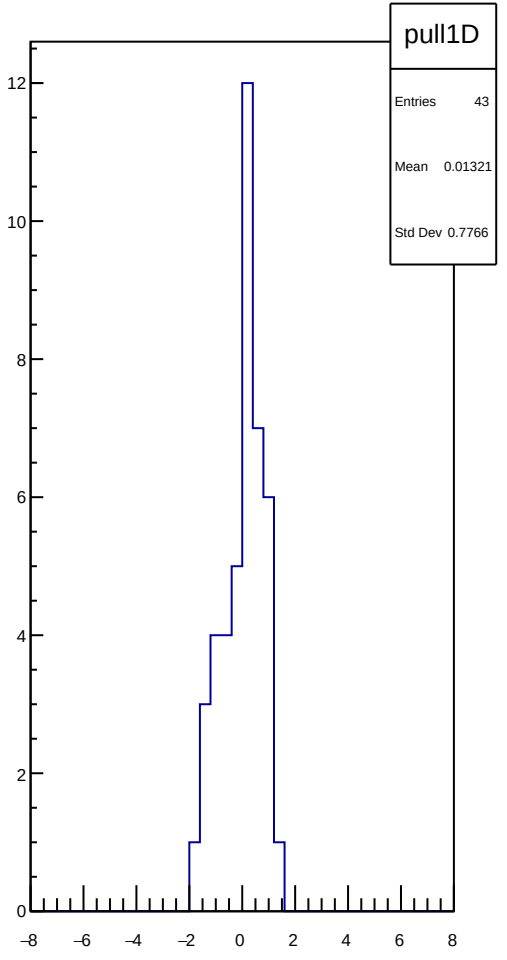

asym_atr1_rms vs run
χ² / ndf 726 / 42
p0 1289 ± 1.383
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

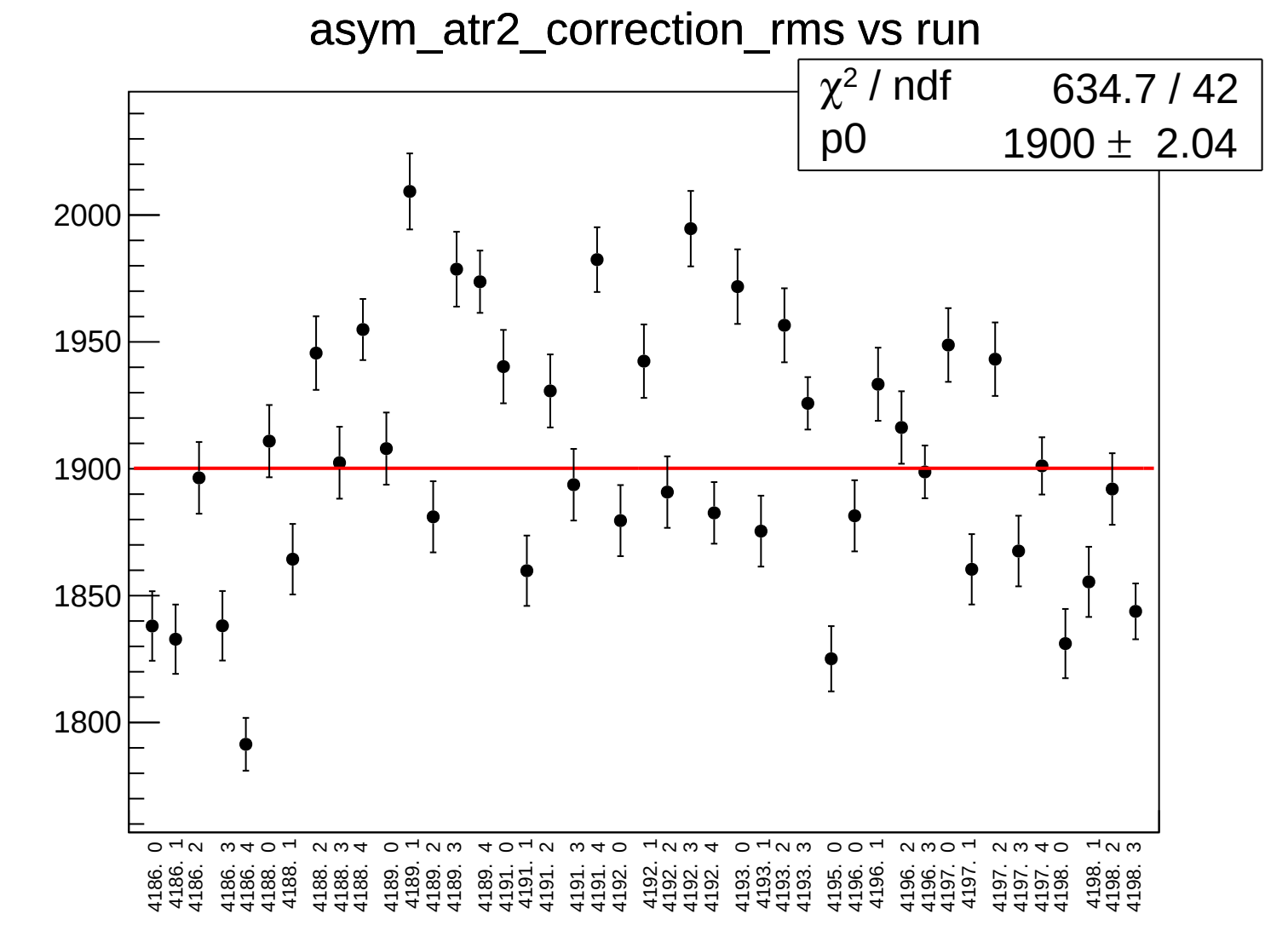

reg_asym_atr2_mean vs run
χ² / ndf 43.69 / 42
p0 839.1 ± 560.6
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 4624
Std Dev 4592
2
1
0
−1
−2

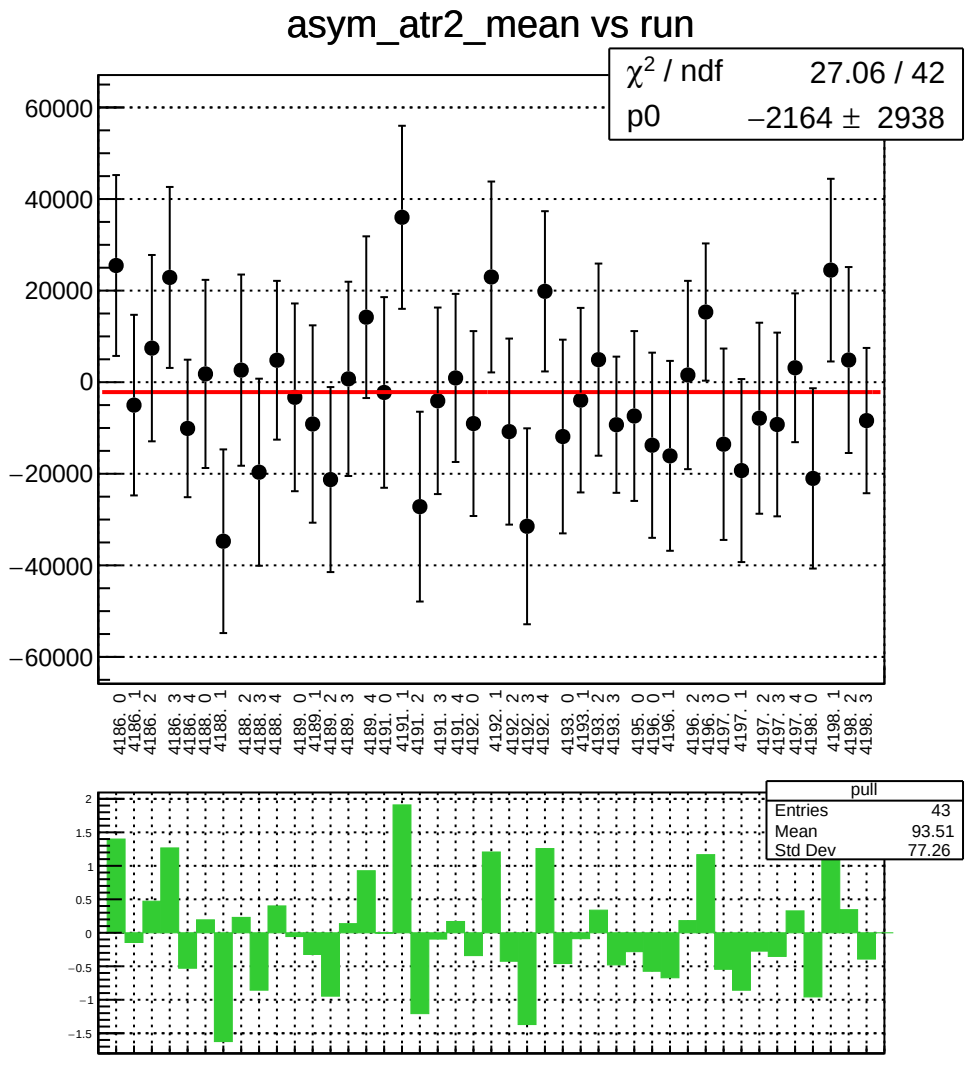

pull1D
Entries 43
Mean 0.0005724
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

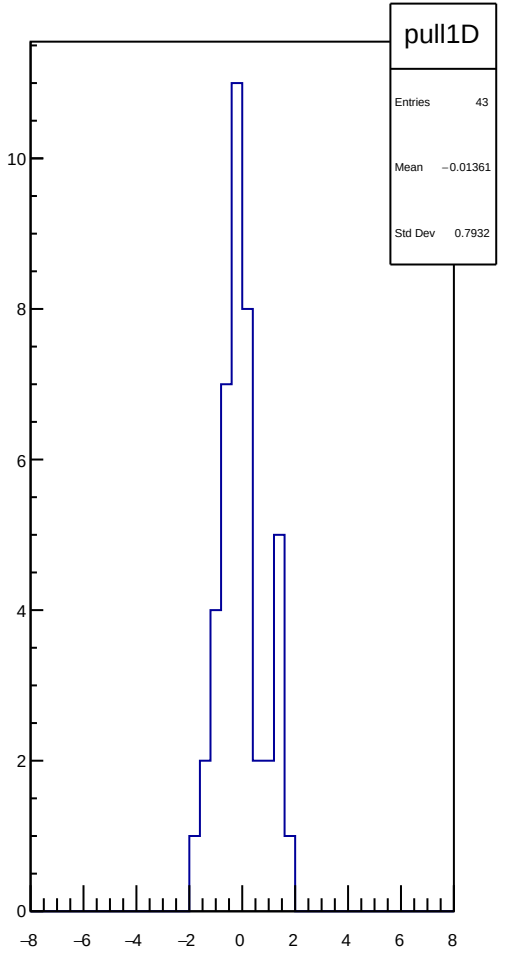

reg_asym_atr2_rms vs run
χ² / ndf 170.7 / 42
p0 369.4 ± 0.3964
390
385
380
375
370
365
360
355
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

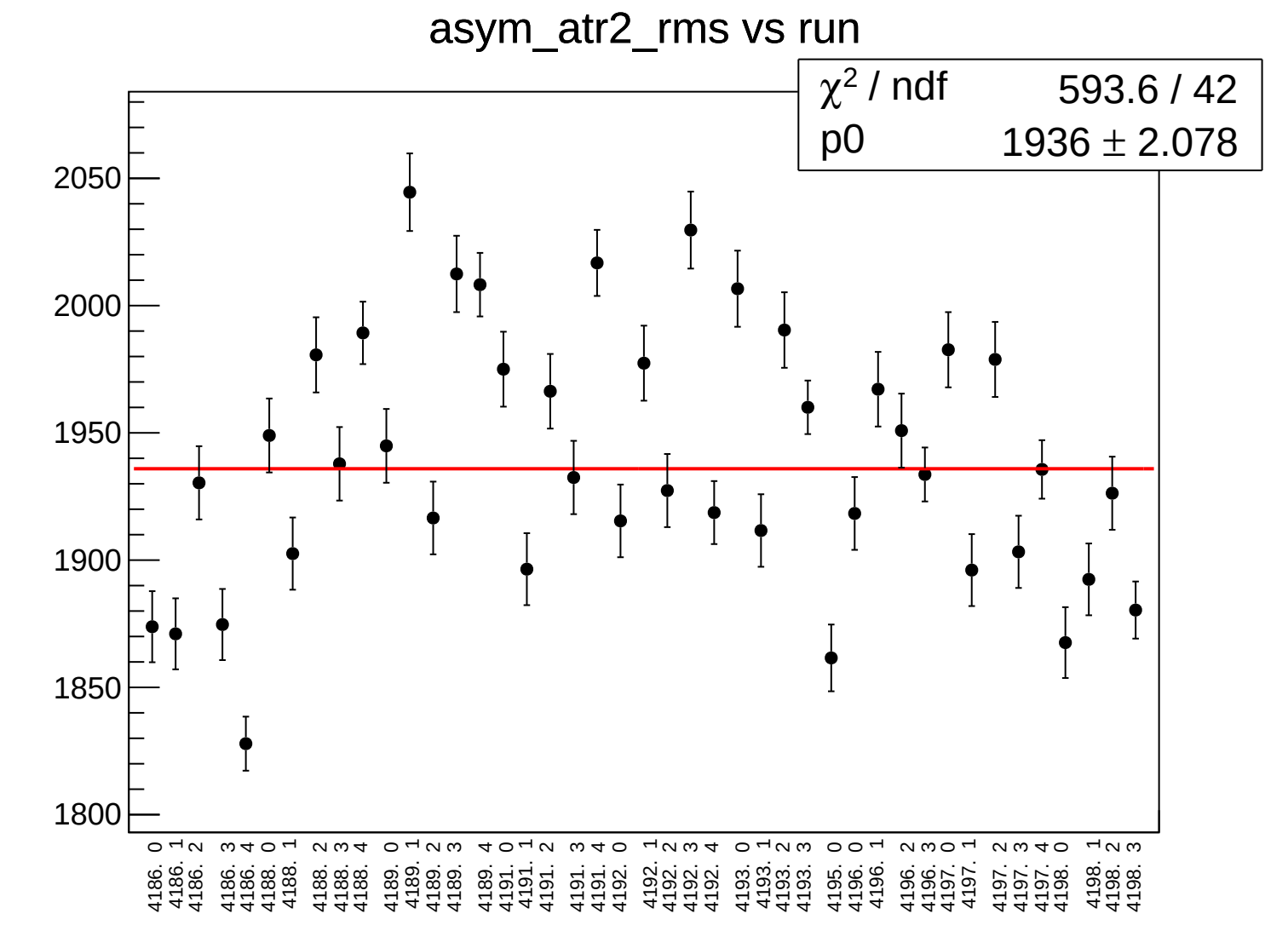

asym_atr2_correction_mean vs run
χ² / ndf 25.94 / 42
p0 3033 ± 2884
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 136.2
Std Dev 115
1.5
1
0.5
0
−0.5
−1
−1.5

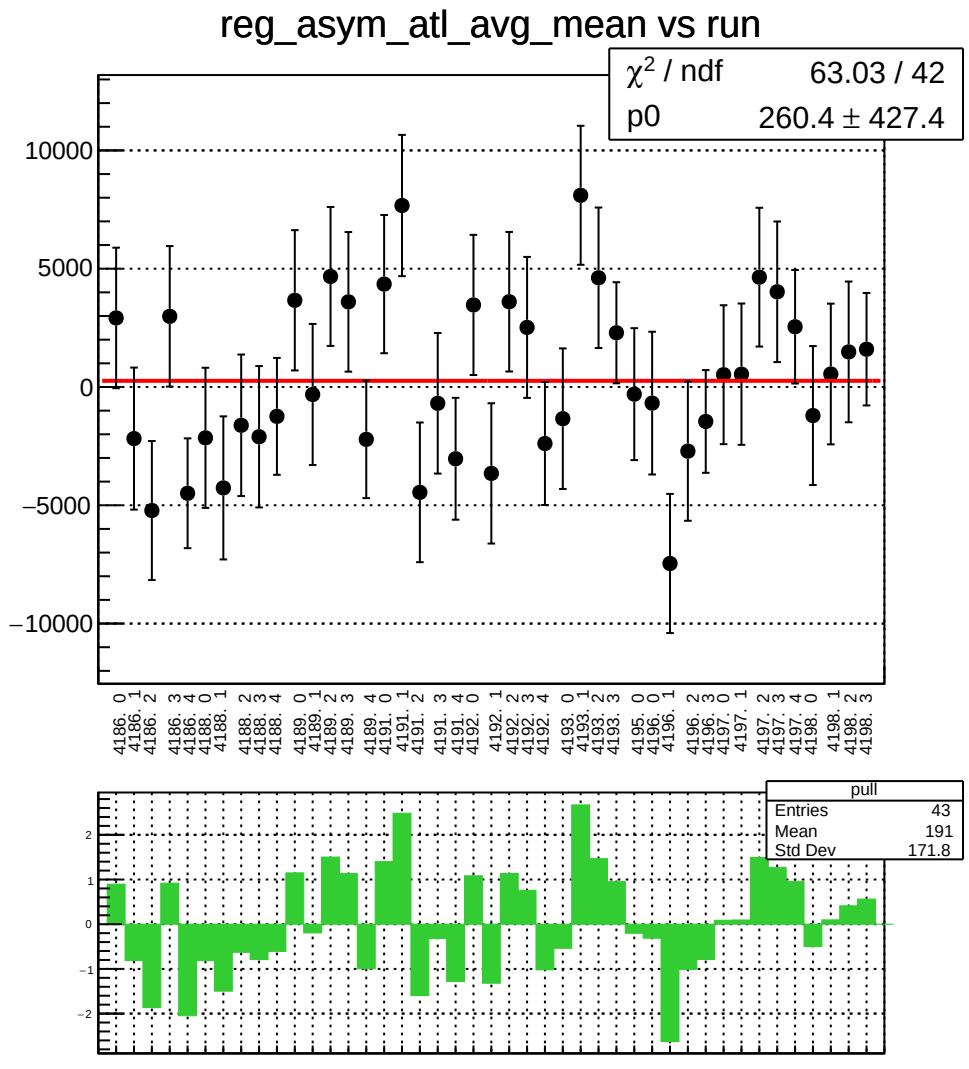

pull1D
Entries 43
Mean 0.01321
Std Dev 0.7766
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

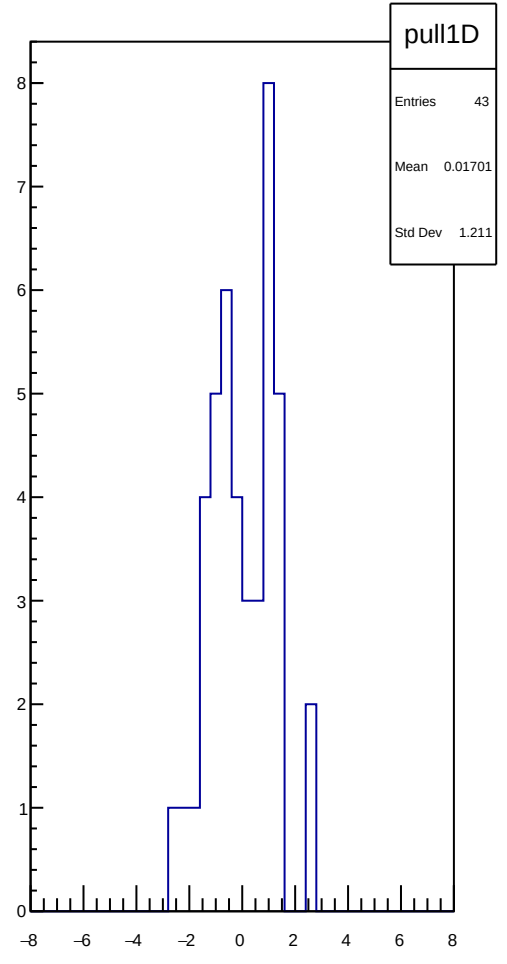

asym_atr2_correction_rms vs run
χ² / ndf 634.7 / 42
p0 1900 ± 2.04
2000
1950
1900
1850
1800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

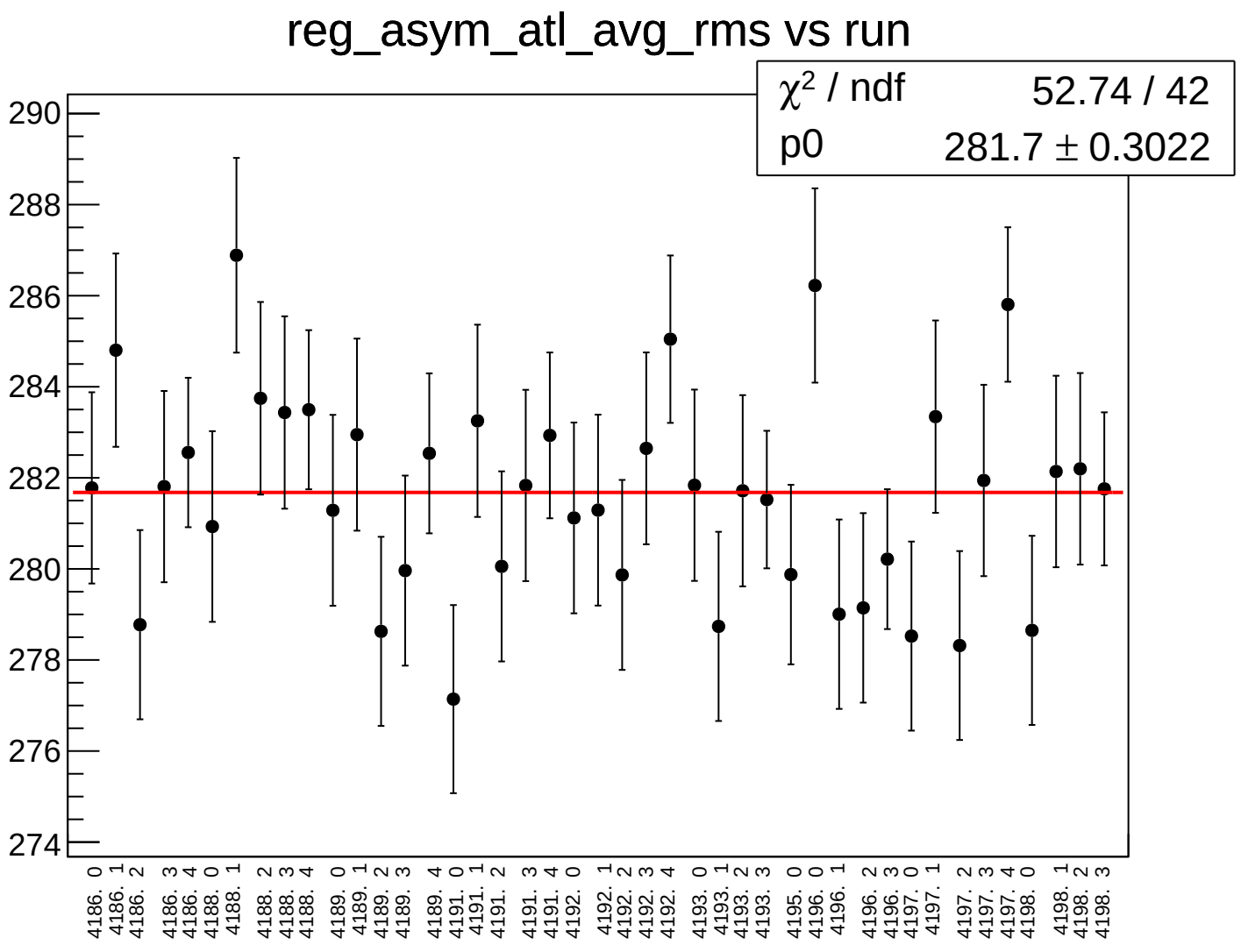

asym_atr2_mean vs run
χ² / ndf 27.06 / 42
p0 −2164 ± 2938
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 93.51
Std Dev 77.26
2
1.5
1
0.5
0
−0.5
−1
−1.5

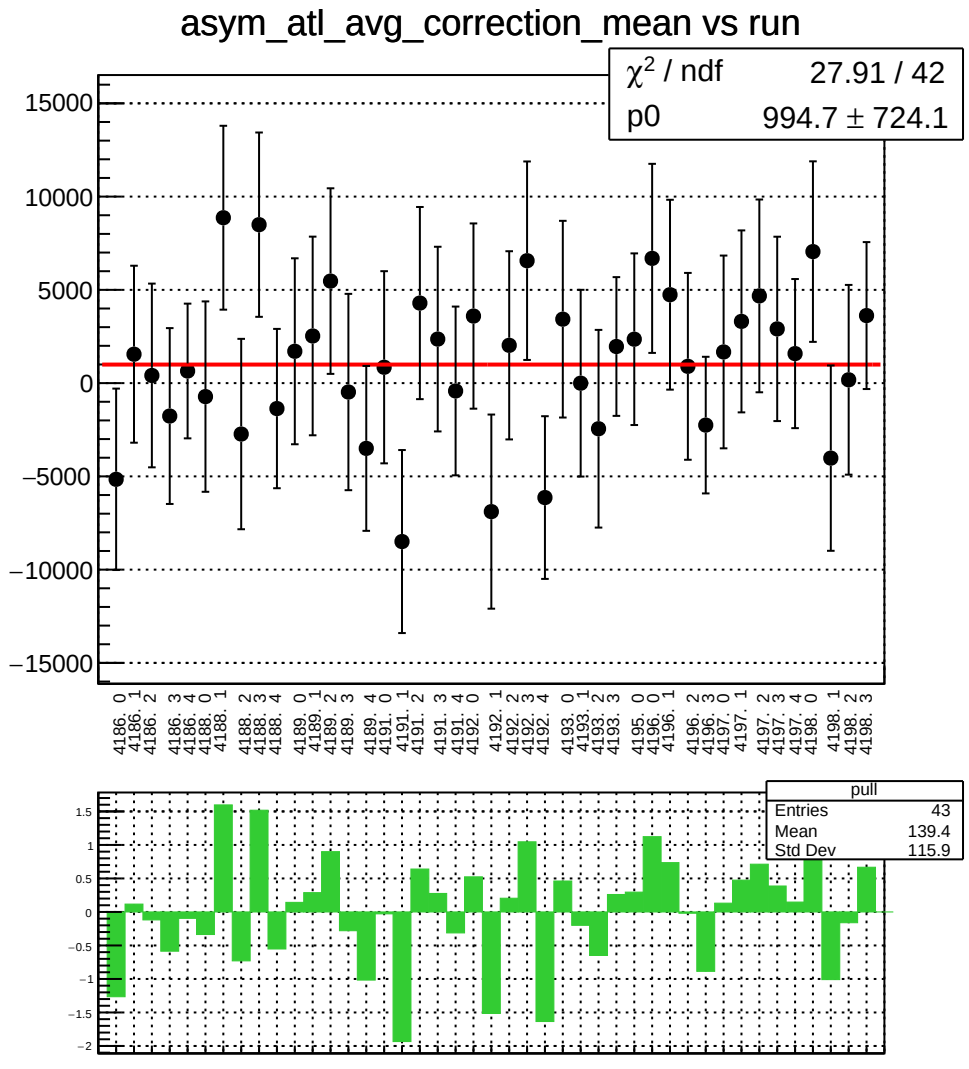

pull1D
Entries 43
Mean −0.01361
Std Dev 0.7932
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

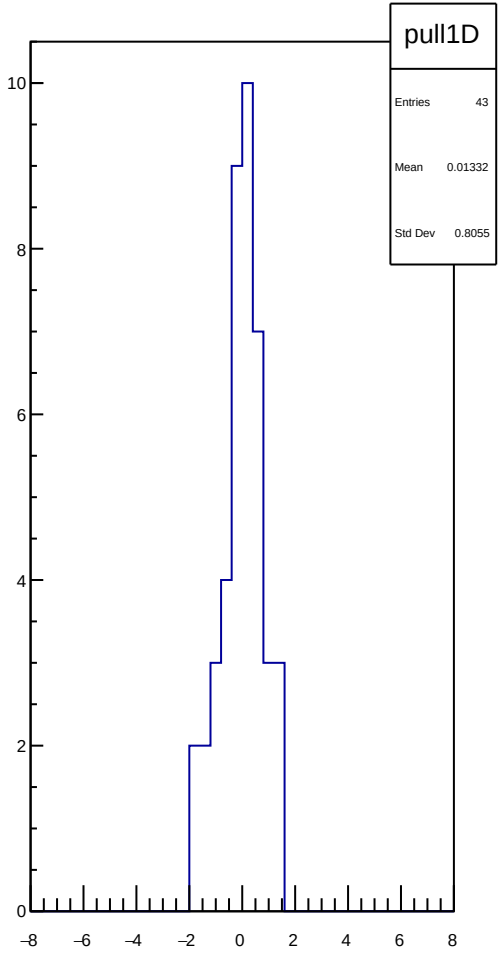

asym_atr2_rms vs run
χ² / ndf 593.6 / 42
p0 1936 ± 2.078
2050
2000
1950
1900
1850
1800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

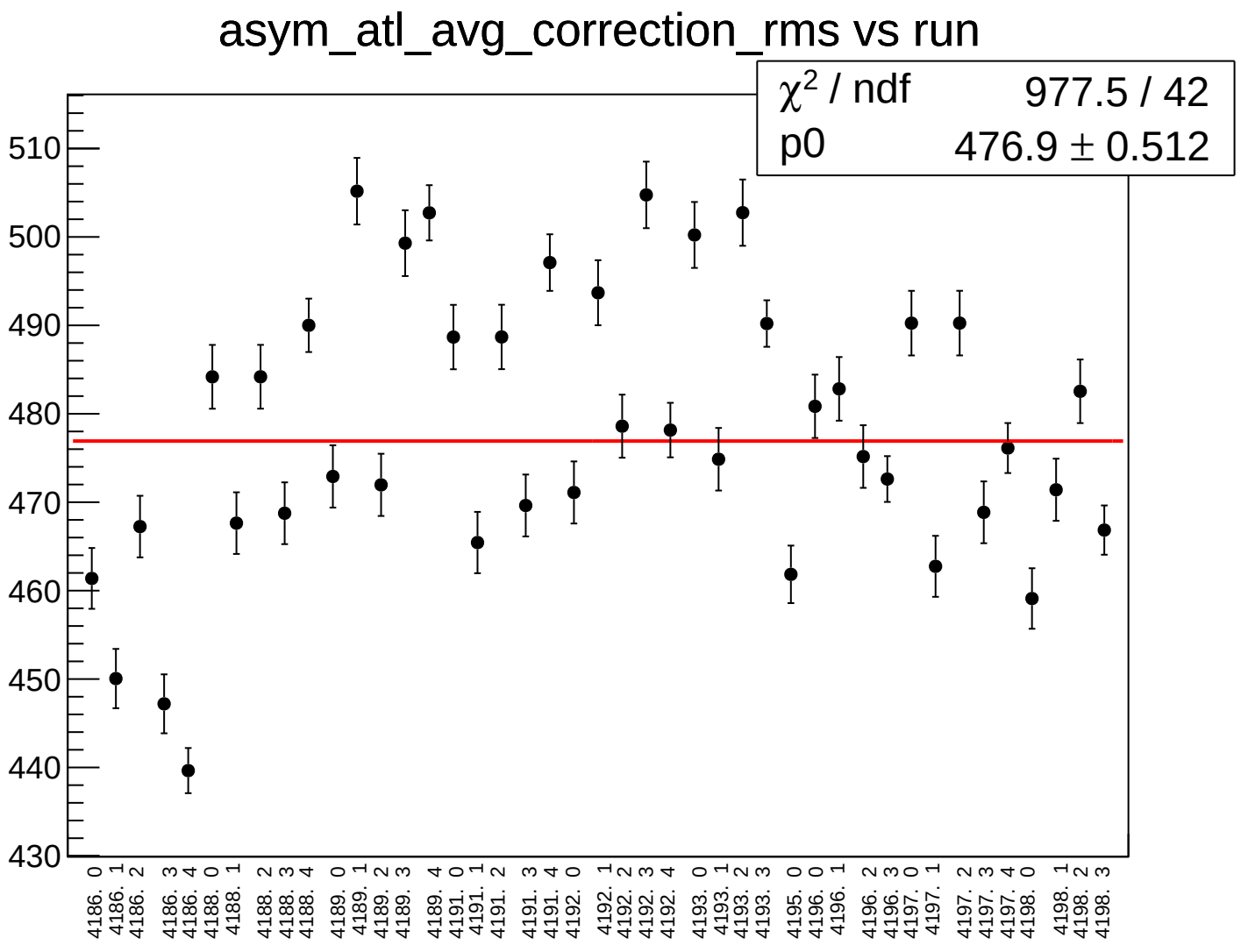

reg_asym_atl_avg_mean vs run
χ² / ndf 63.03 / 42
p0 260.4 ± 427.4
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 191
Std Dev 171.8
2
1
0
−1
−2

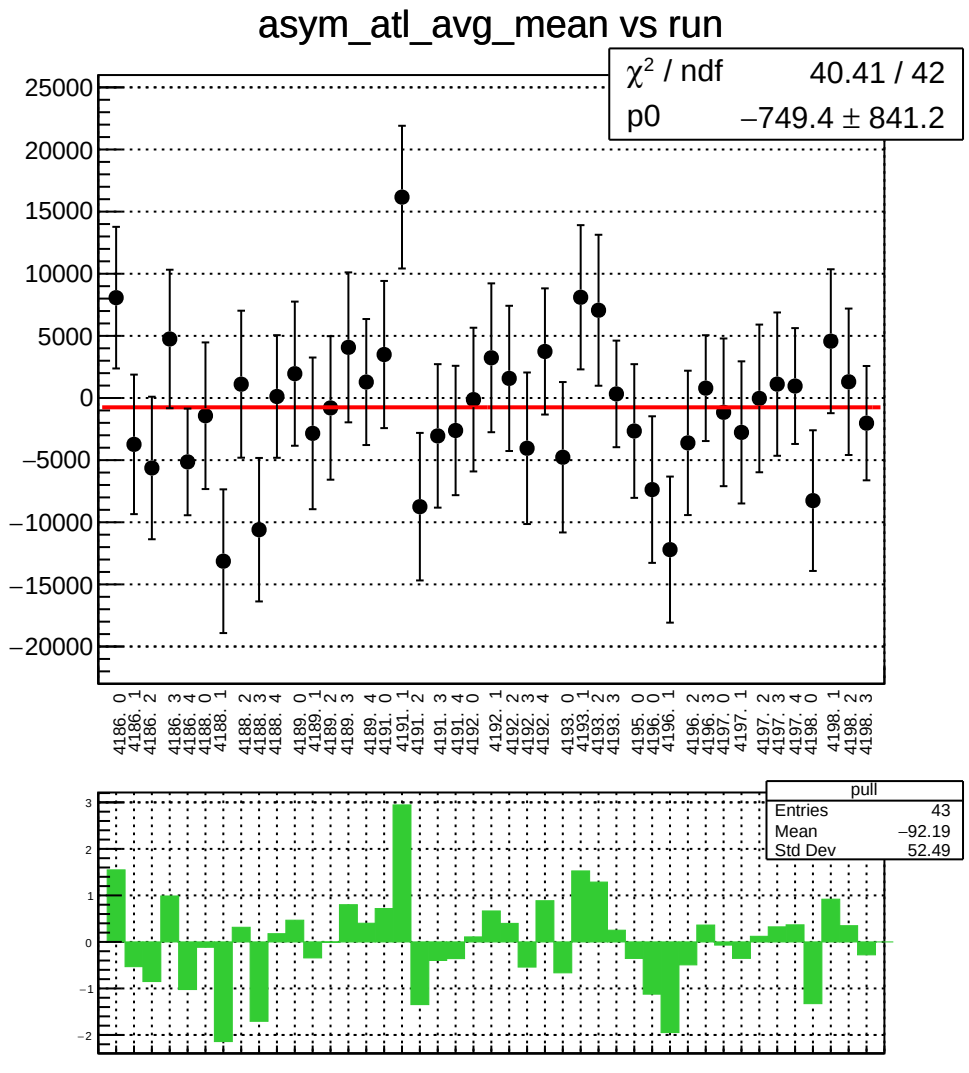

pull1D
Entries 43
Mean 0.01701
Std Dev 1.211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

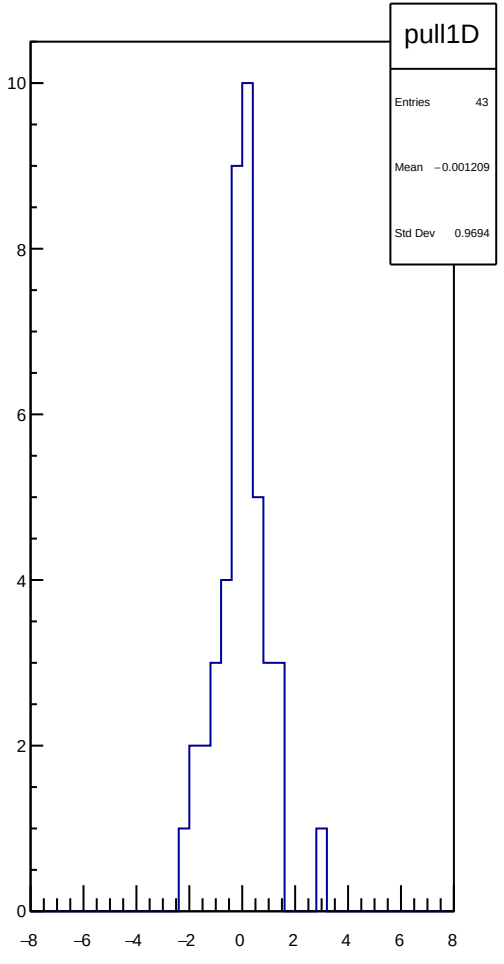

reg_asym_atl_avg_rms vs run
χ² / ndf 52.74 / 42
p0 281.7 ± 0.3022
290
288
286
284
282
280
278
276
274
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

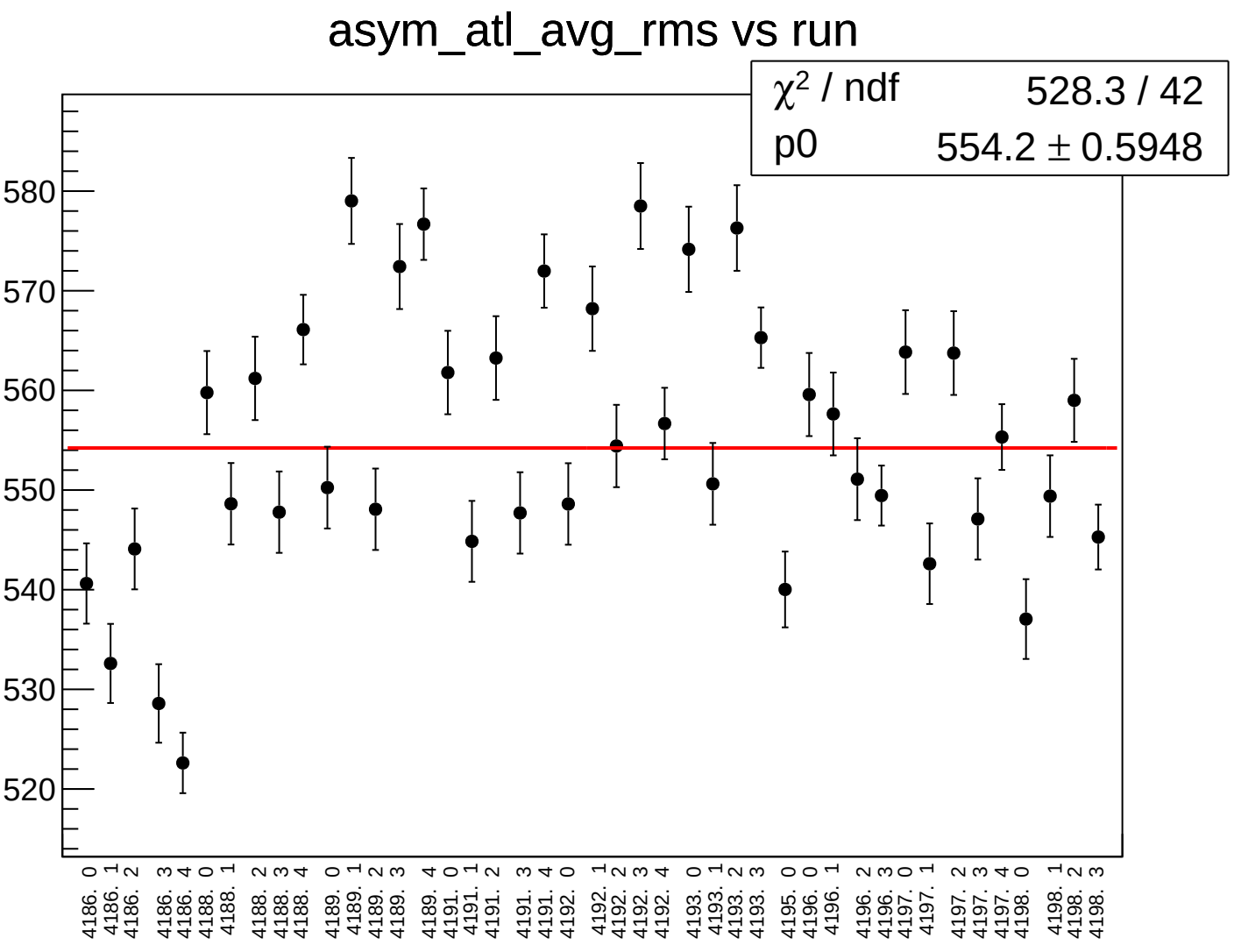

asym_atl_avg_correction_mean vs run
χ² / ndf 27.91 / 42
p0 994.7 ± 724.1
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 139.4
Std Dev 115.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

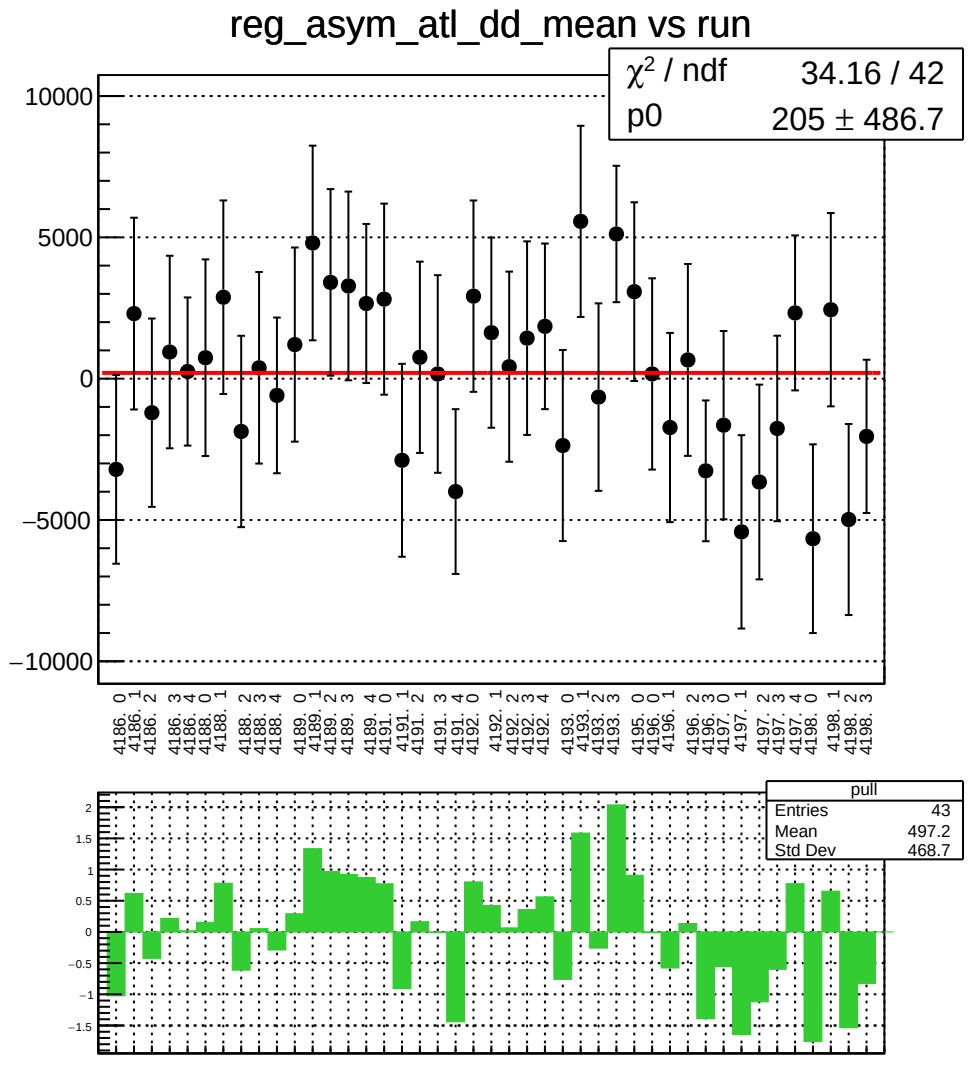

pull1D
Entries 43
Mean 0.01332
Std Dev 0.8055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

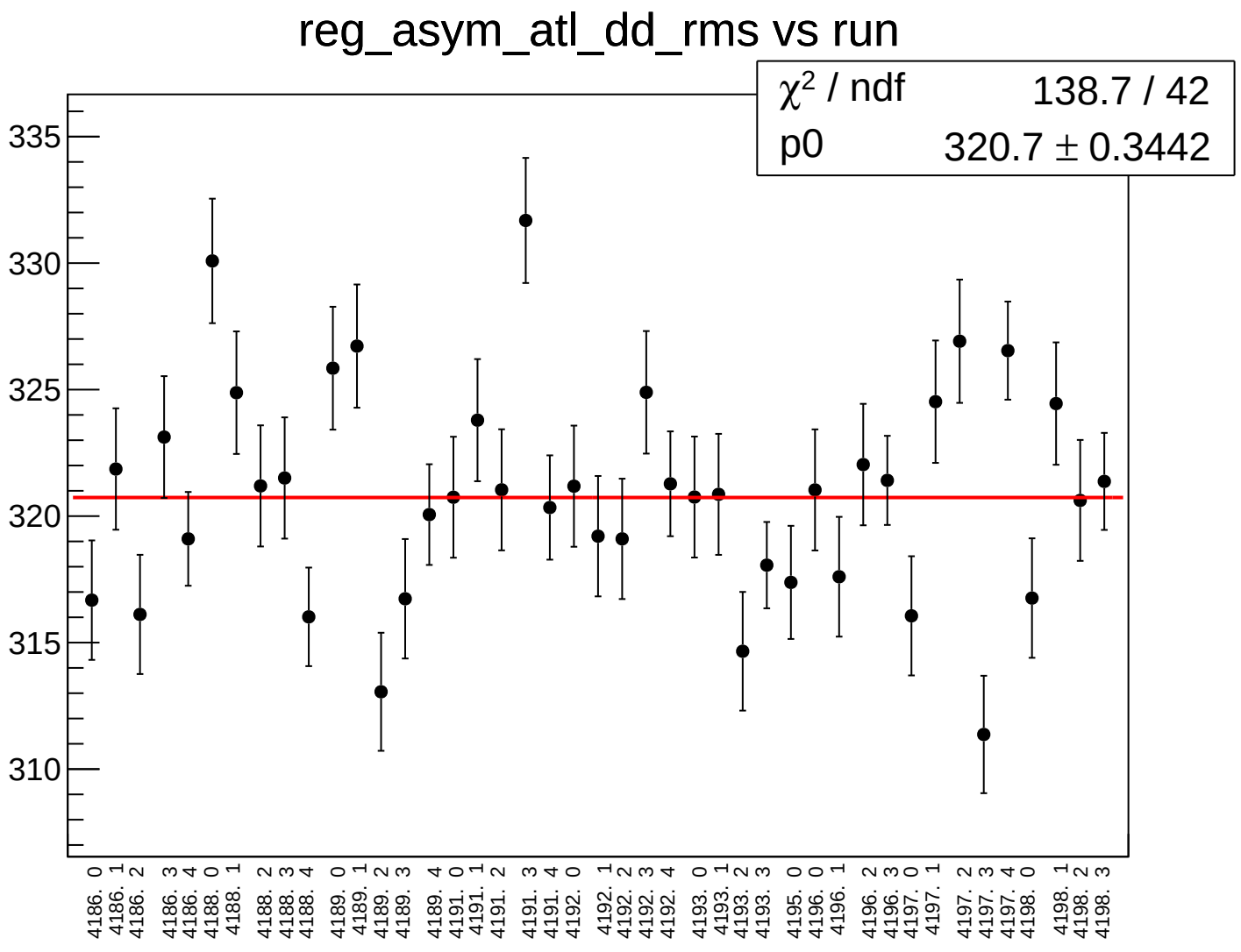

asym_atl_avg_correction_rms vs run
χ² / ndf 977.5 / 42
p0 476.9 ± 0.512
510
500
490
480
470
460
450
440
430
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

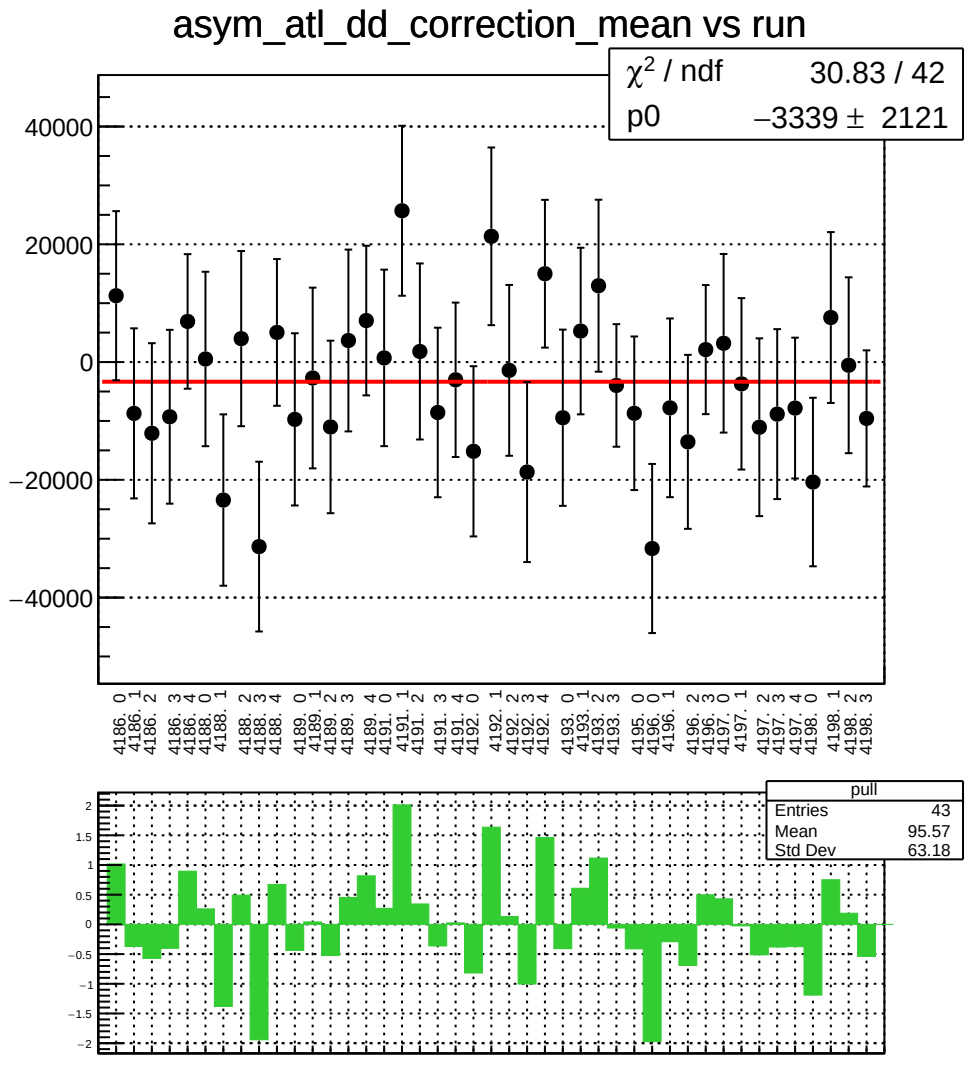

asym_atl_avg_mean vs run
χ² / ndf 40.41 / 42
p0 −749.4 ± 841.2
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −92.19
Std Dev 52.49
3
2
1
0
−1
−2

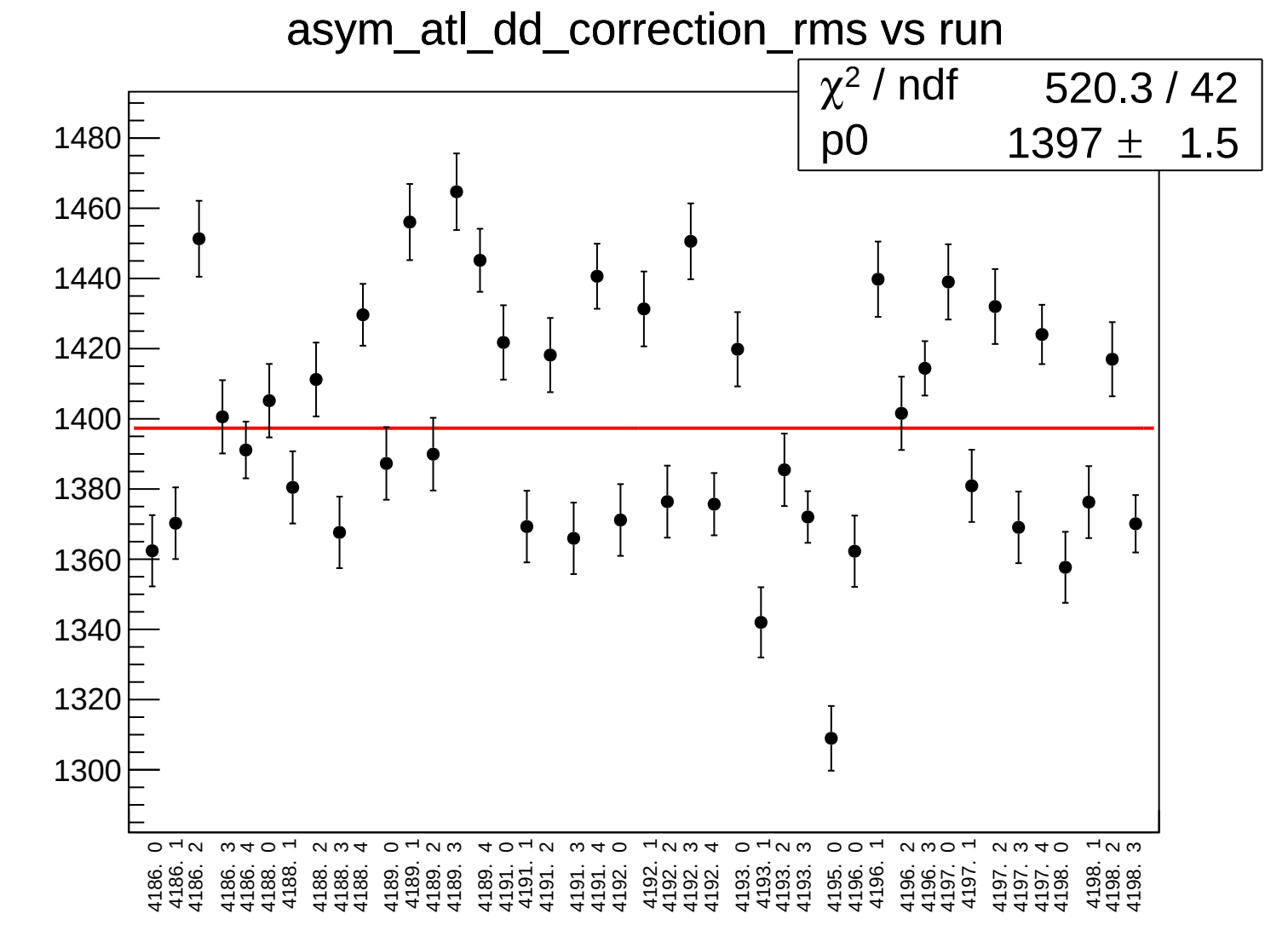

pull1D
Entries 43
Mean −0.001209
Std Dev 0.9694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

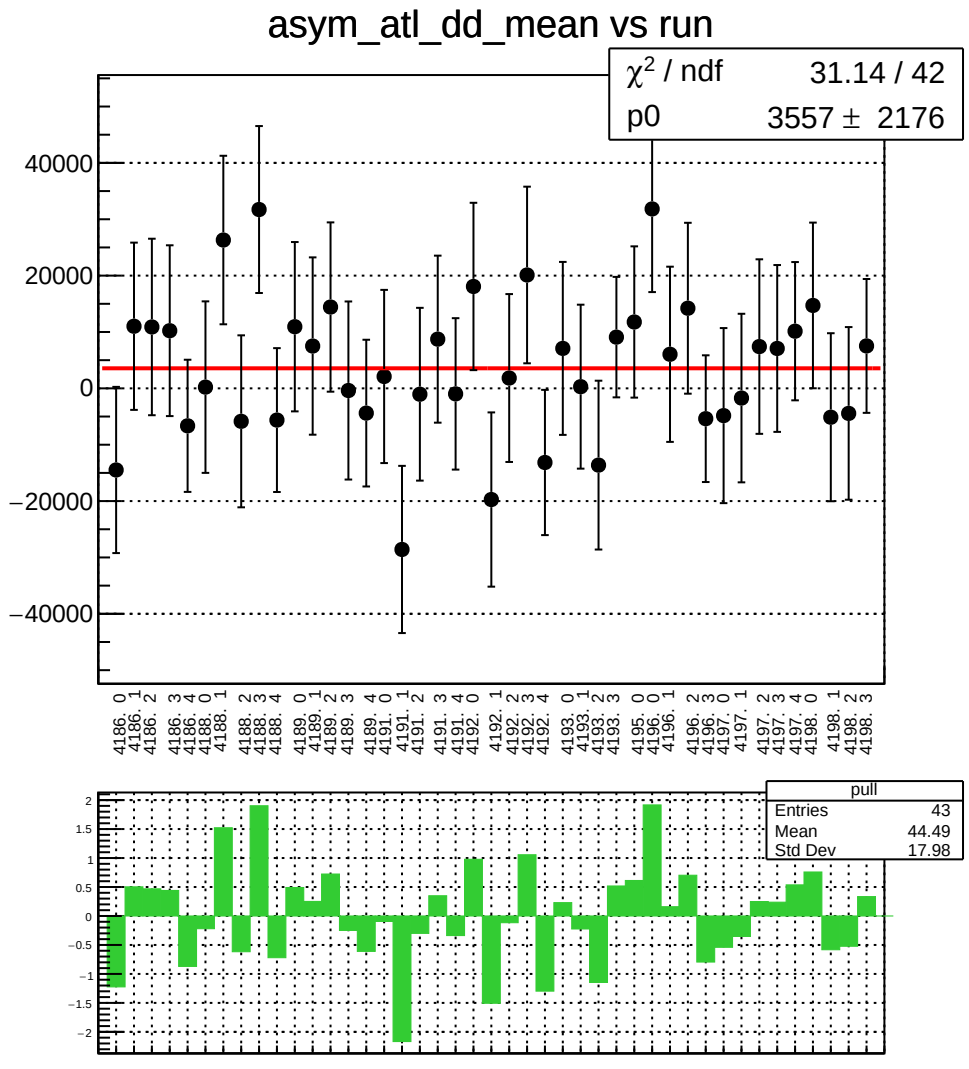

asym_atl_avg_rms vs run
χ² / ndf 528.3 / 42
p0 554.2 ± 0.5948
580
570
560
550
540
530
520
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

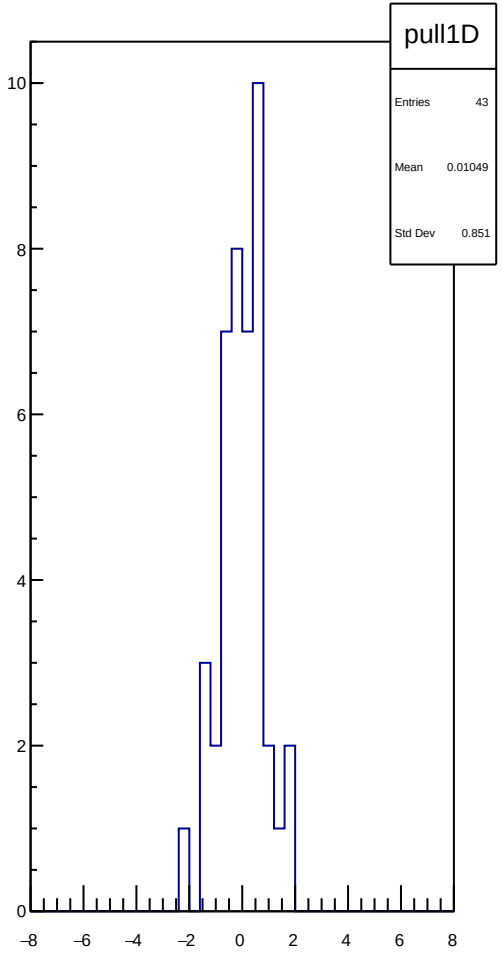

reg_asym_atl_dd_mean vs run
χ² / ndf 34.16 / 42
p0 205 ± 486.7
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 497.2
Std Dev 468.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.006446
Std Dev 0.8913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

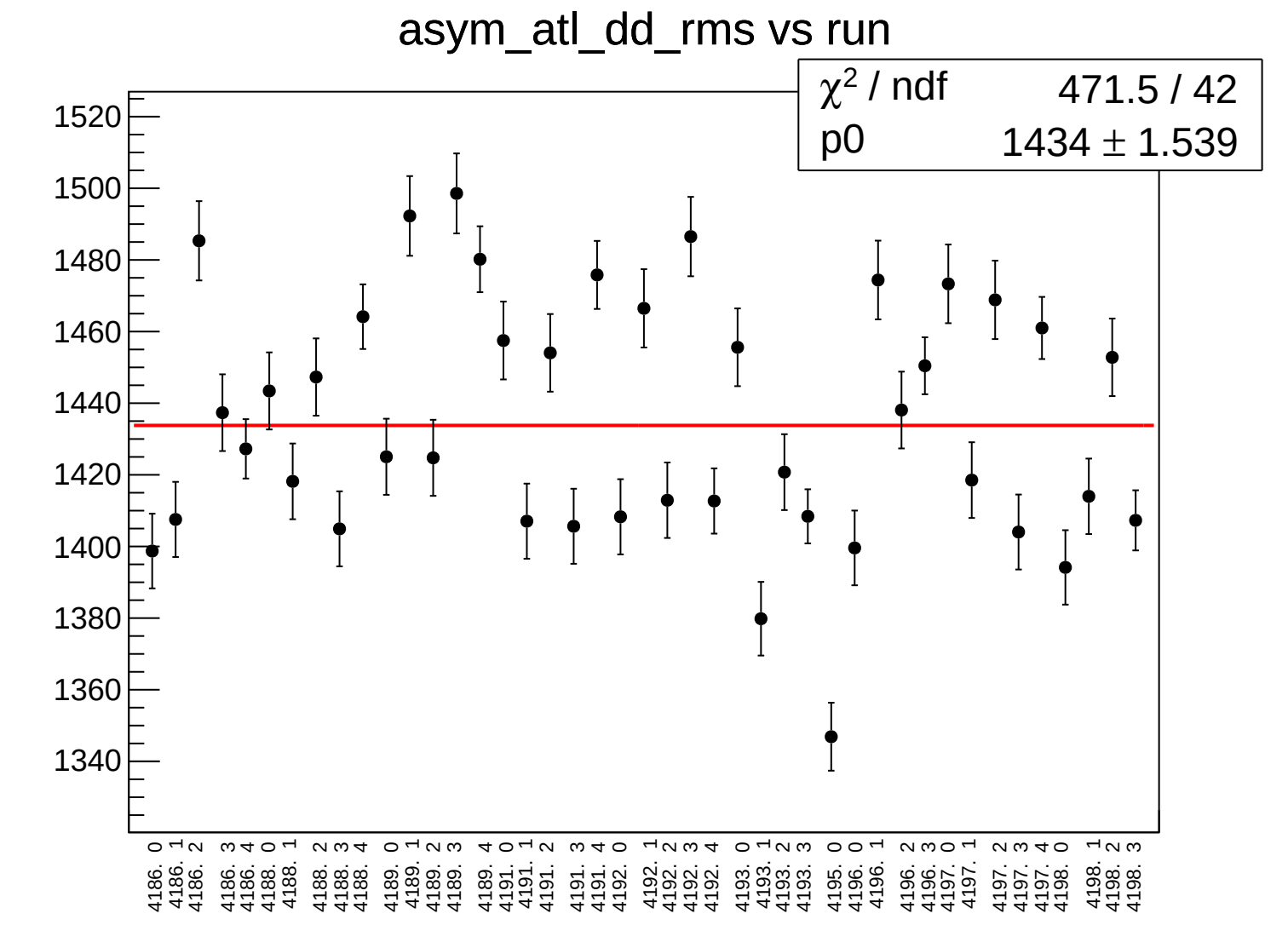

reg_asym_atl_dd_rms vs run
χ² / ndf 138.7 / 42
p0 320.7 ± 0.3442
335
330
325
320
315
310
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

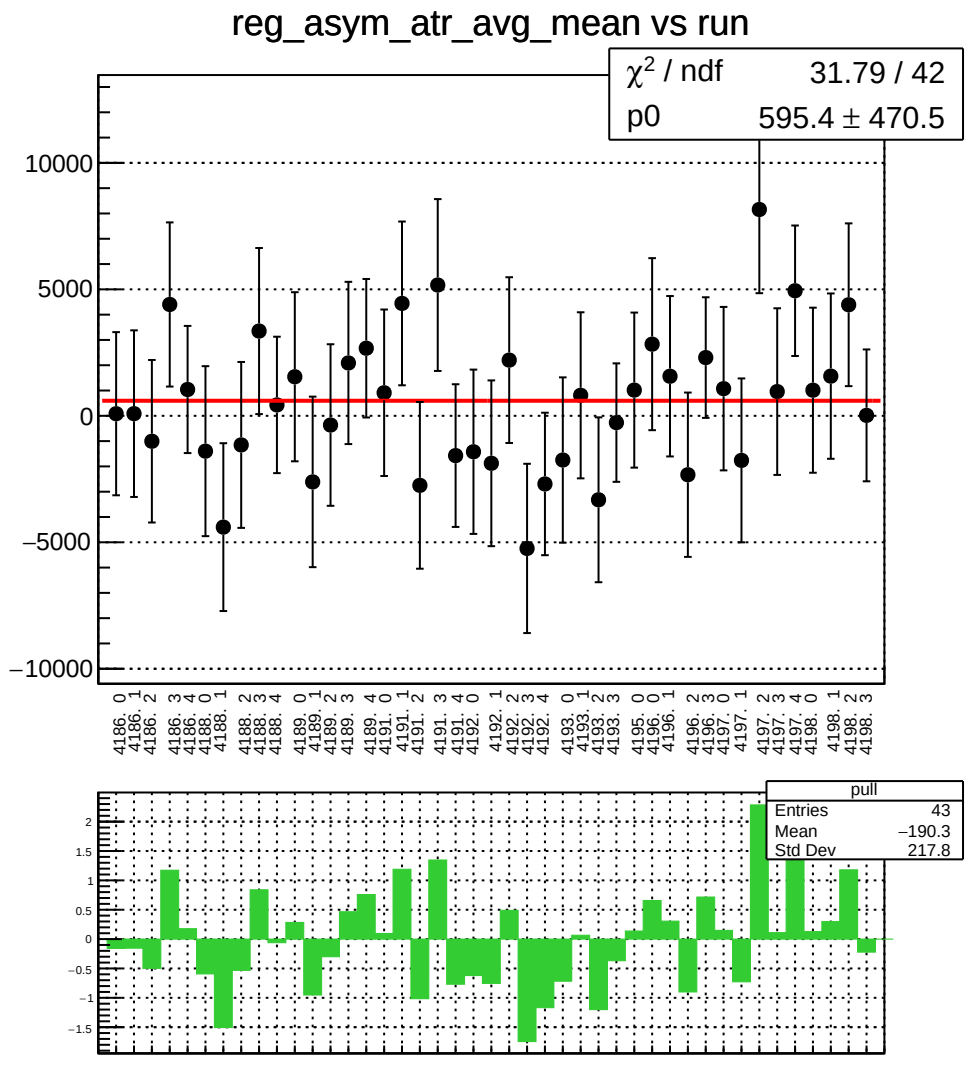

asym_atl_dd_correction_mean vs run
χ² / ndf 30.83 / 42
p0 −3339 ± 2121
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 95.57
Std Dev 63.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01275
Std Dev 0.8466
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

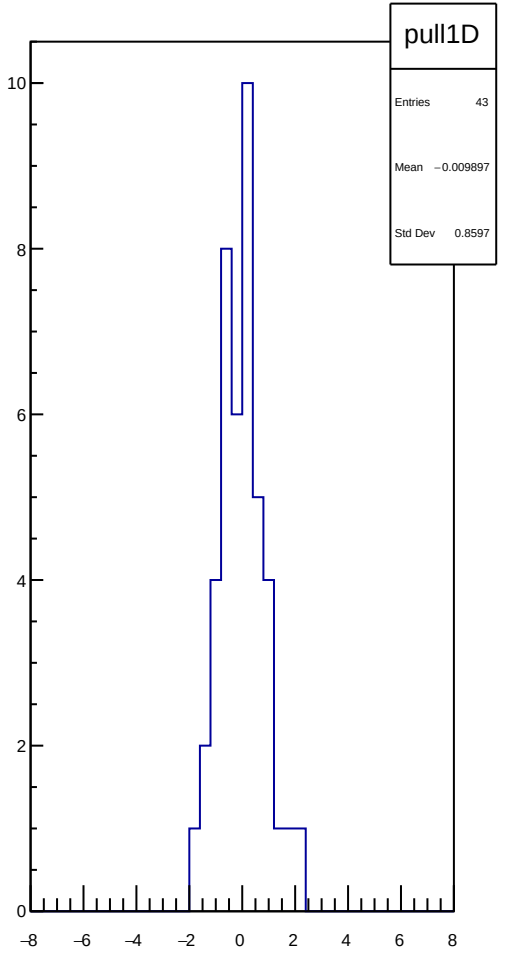

asym_atl_dd_correction_rms vs run
χ² / ndf 520.3 / 42
p0 1397 ± 1.5
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

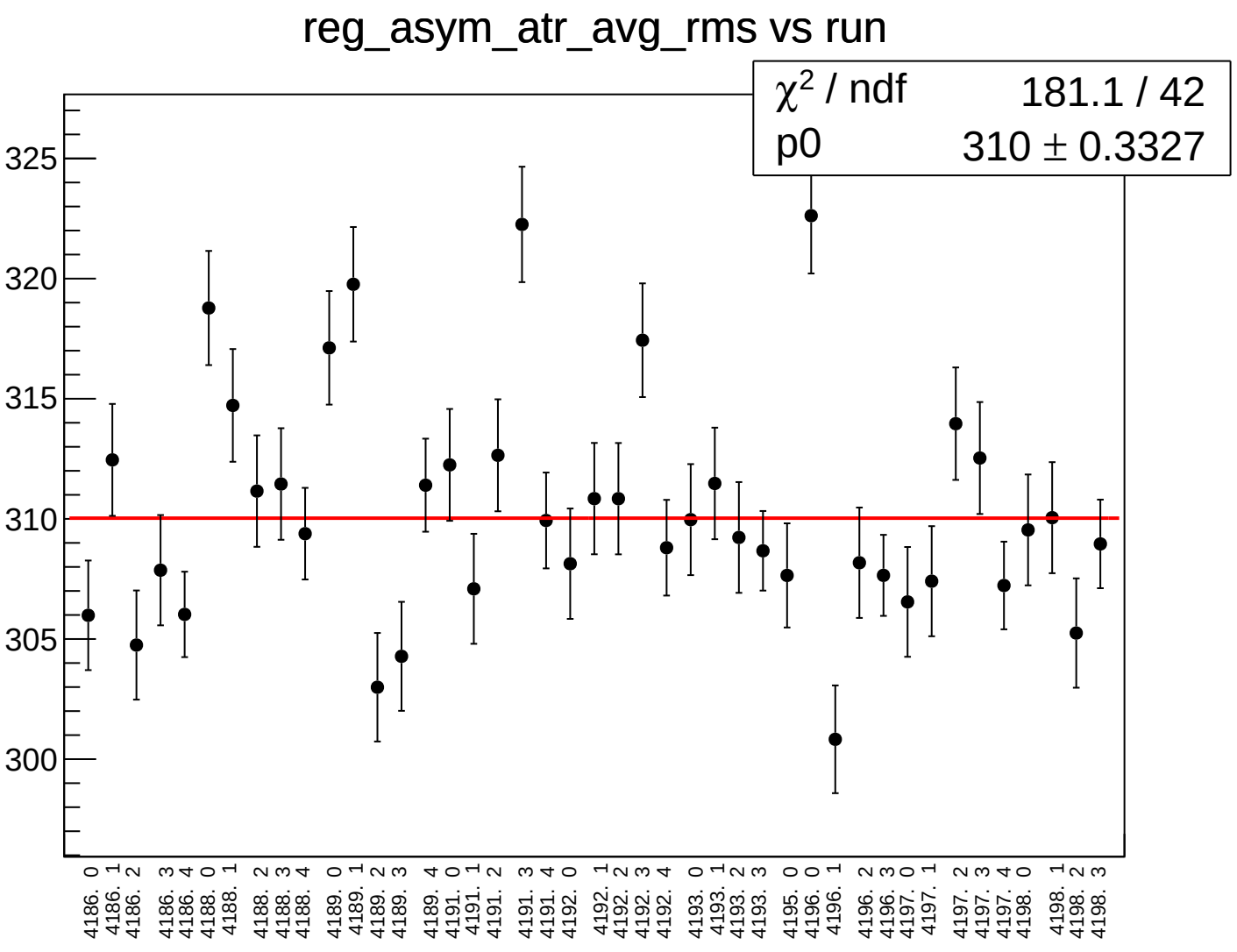

asym_atl_dd_mean vs run
χ^2 / ndf 31.14 / 42
p0 3557 ± 2176
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 44.49
Std Dev 17.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

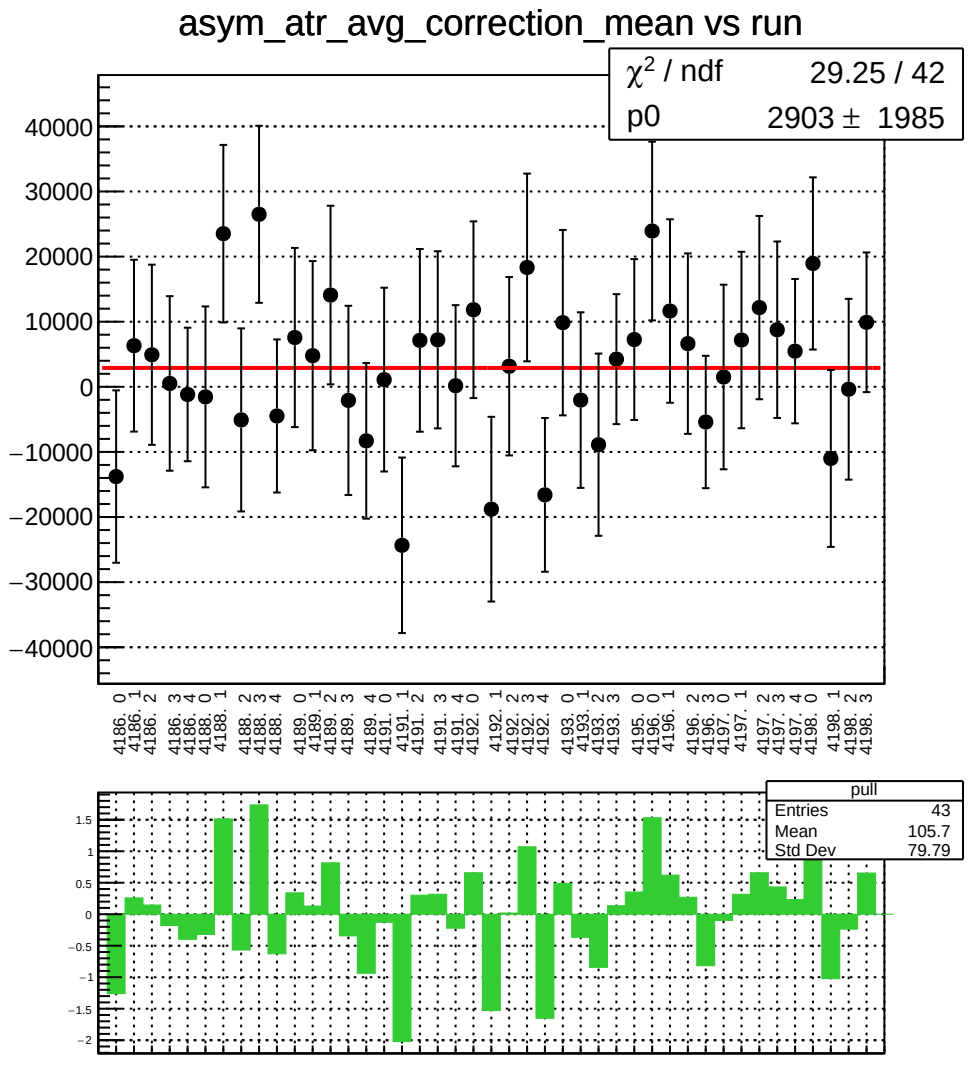

pull1D
Entries 43
Mean 0.01049
Std Dev 0.851
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

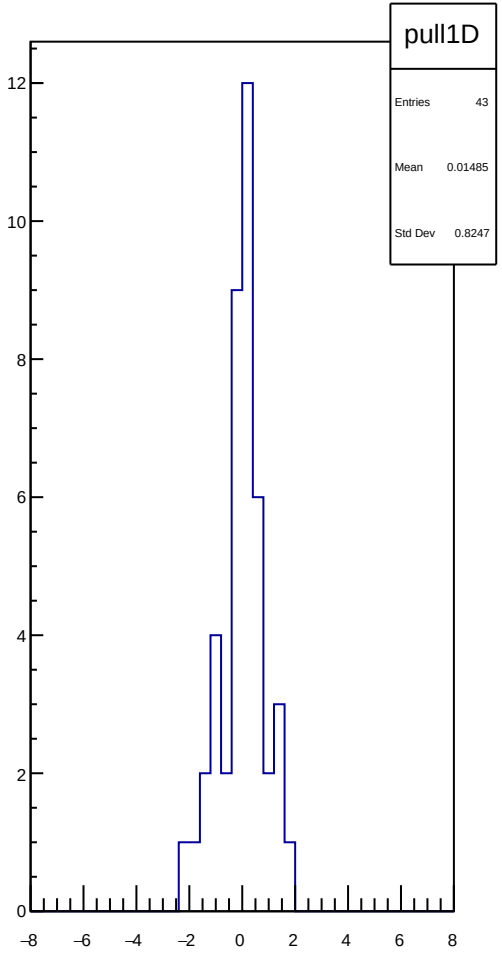

asym_atl_dd_rms vs run
χ² / ndf 471.5 / 42
p0 1434 ± 1.539
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

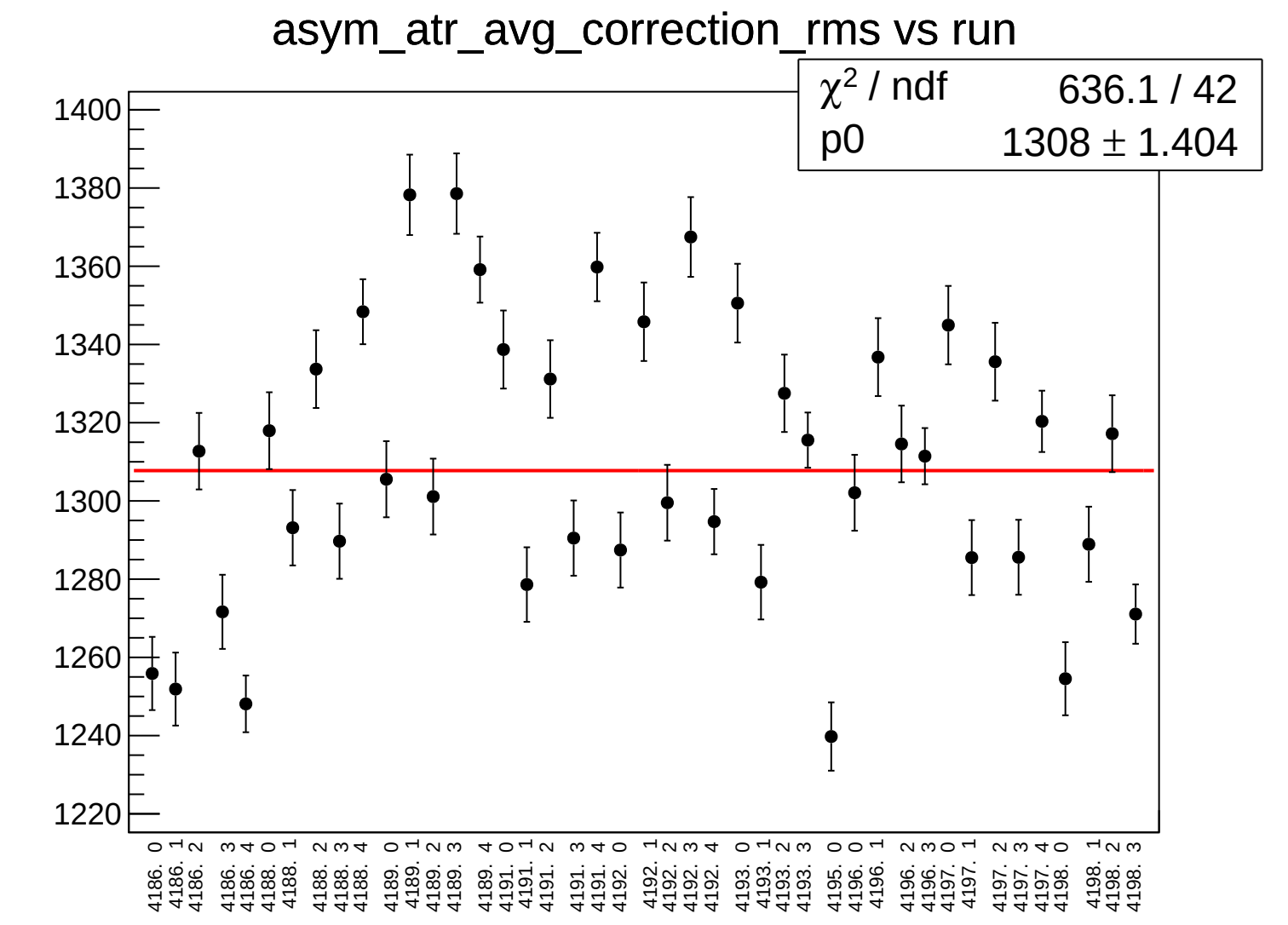

reg_asym_atr_avg_mean vs run
χ² / ndf 31.79 / 42
p0 595.4 ± 470.5
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −190.3
Std Dev 217.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

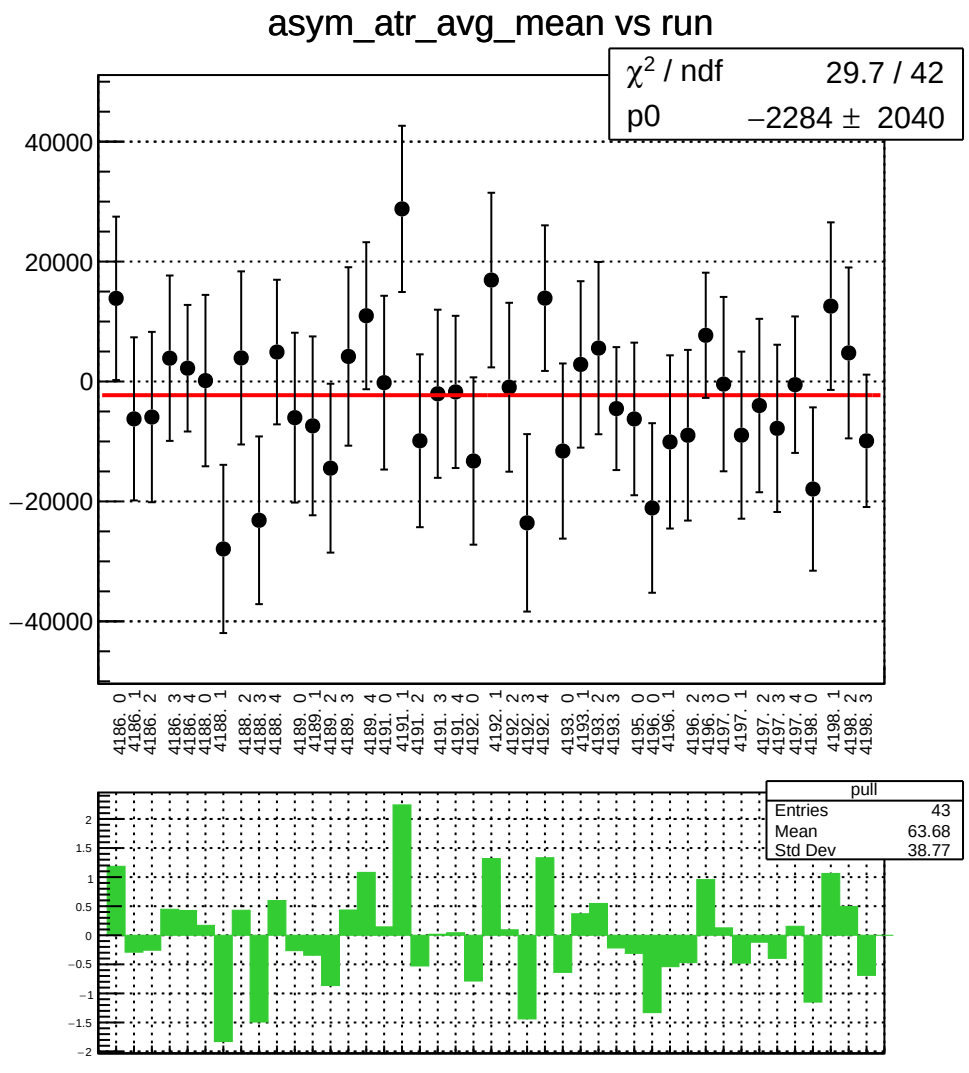

pull1D
Entries 43
Mean −0.009897
Std Dev 0.8597
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

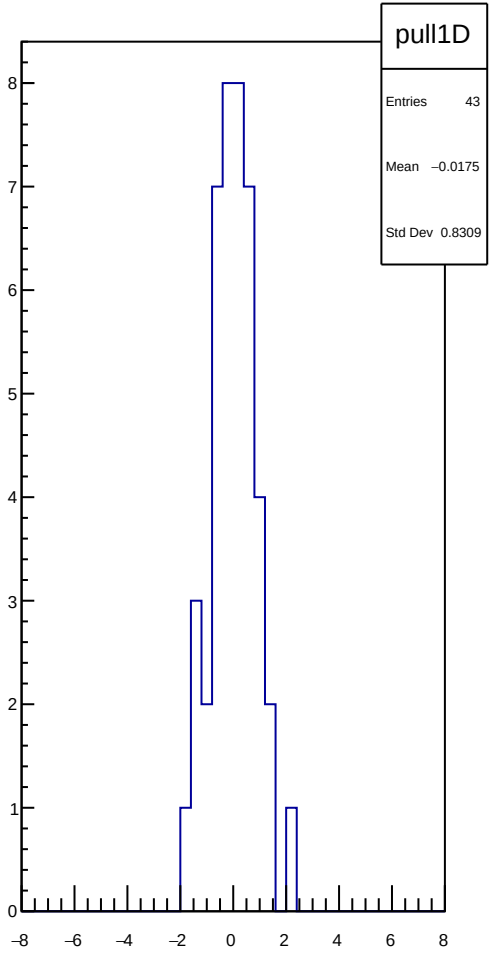

reg_asym_atr_avg_rms vs run
χ² / ndf 181.1 / 42
p0 310 ± 0.3327
325
320
315
310
305
300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

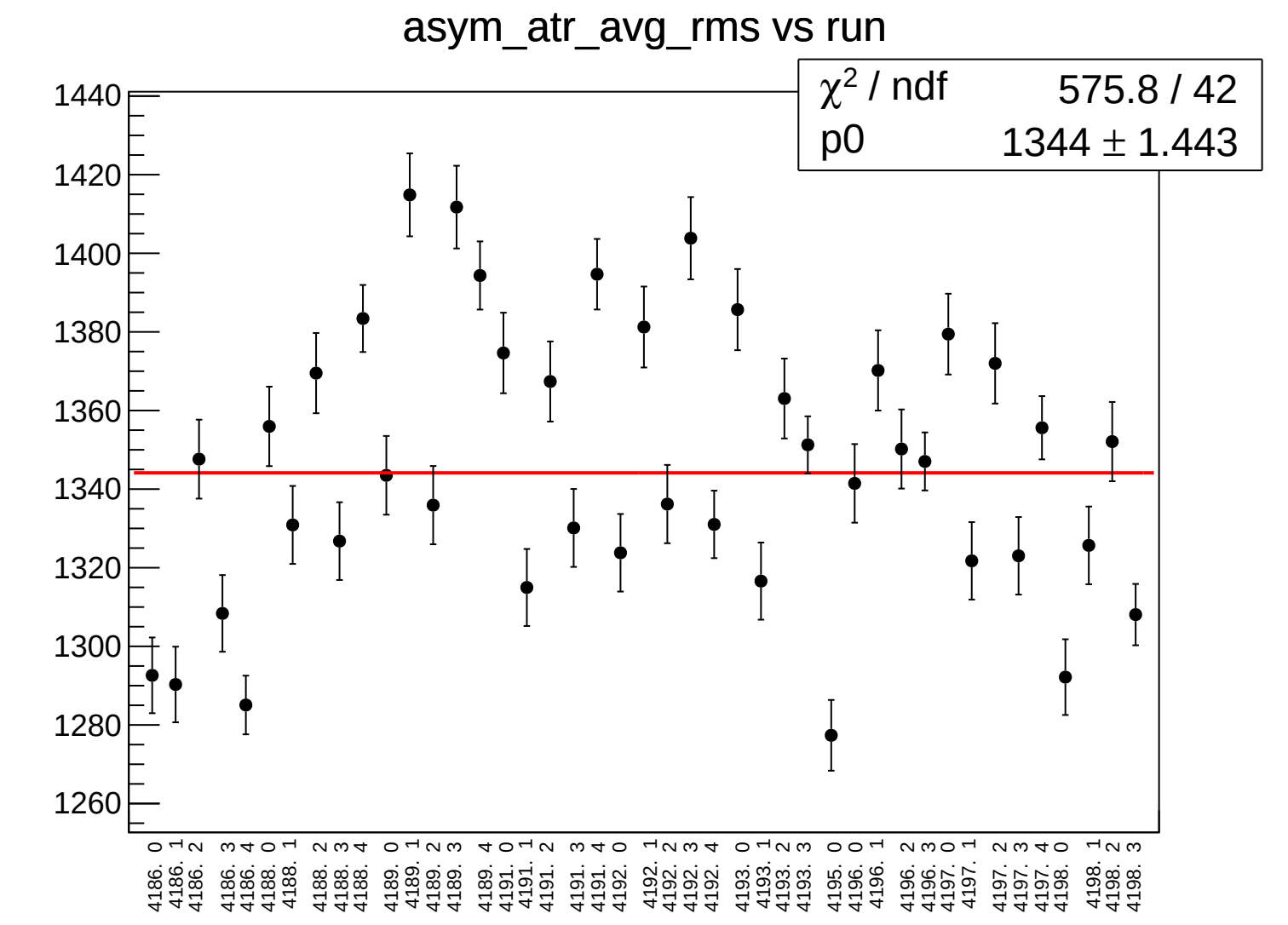

asym_atr_avg_correction_mean vs run
χ² / ndf 29.25 / 42
p0 2903 ± 1985
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 105.7
Std Dev 79.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2

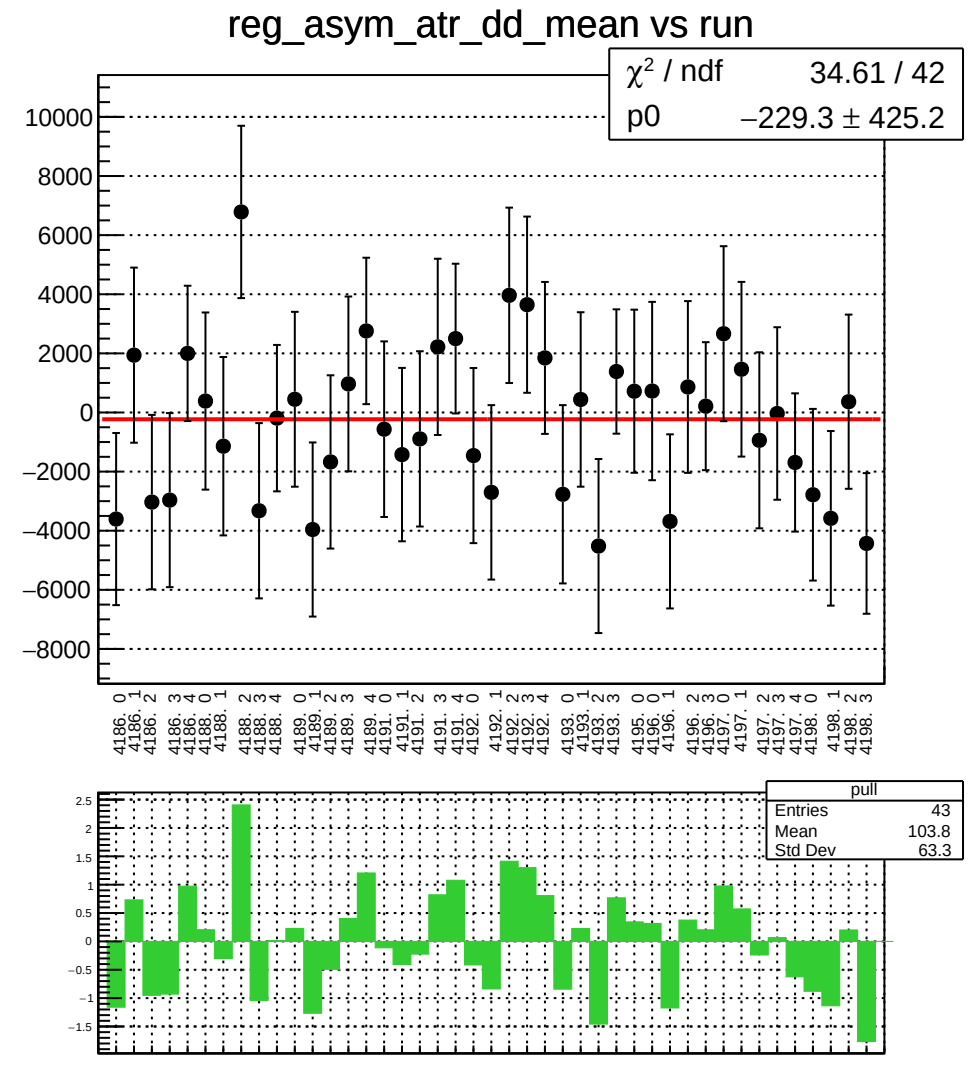

pull1D
Entries 43
Mean 0.01485
Std Dev 0.8247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

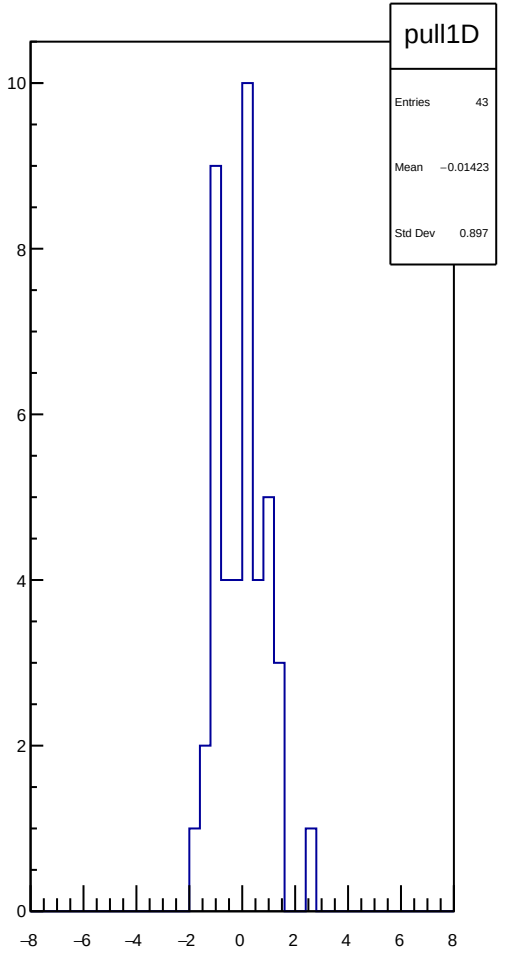

asym_atr_avg_correction_rms vs run
χ² / ndf 636.1 / 42
p0 1308 ± 1.404
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

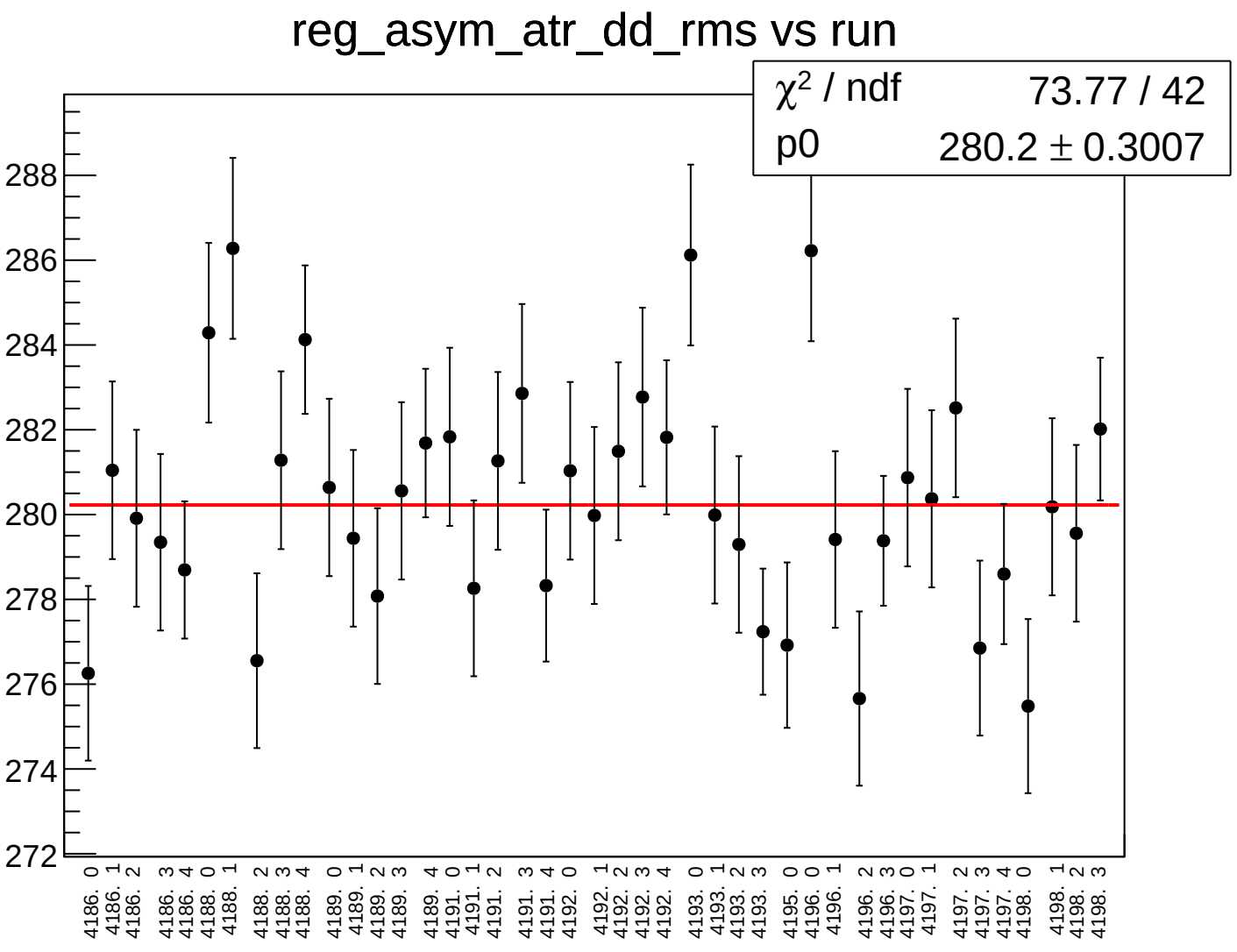

asym_atr_avg_mean vs run
χ² / ndf 29.7 / 42
p0 −2284 ± 2040
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 63.68
Std Dev 38.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

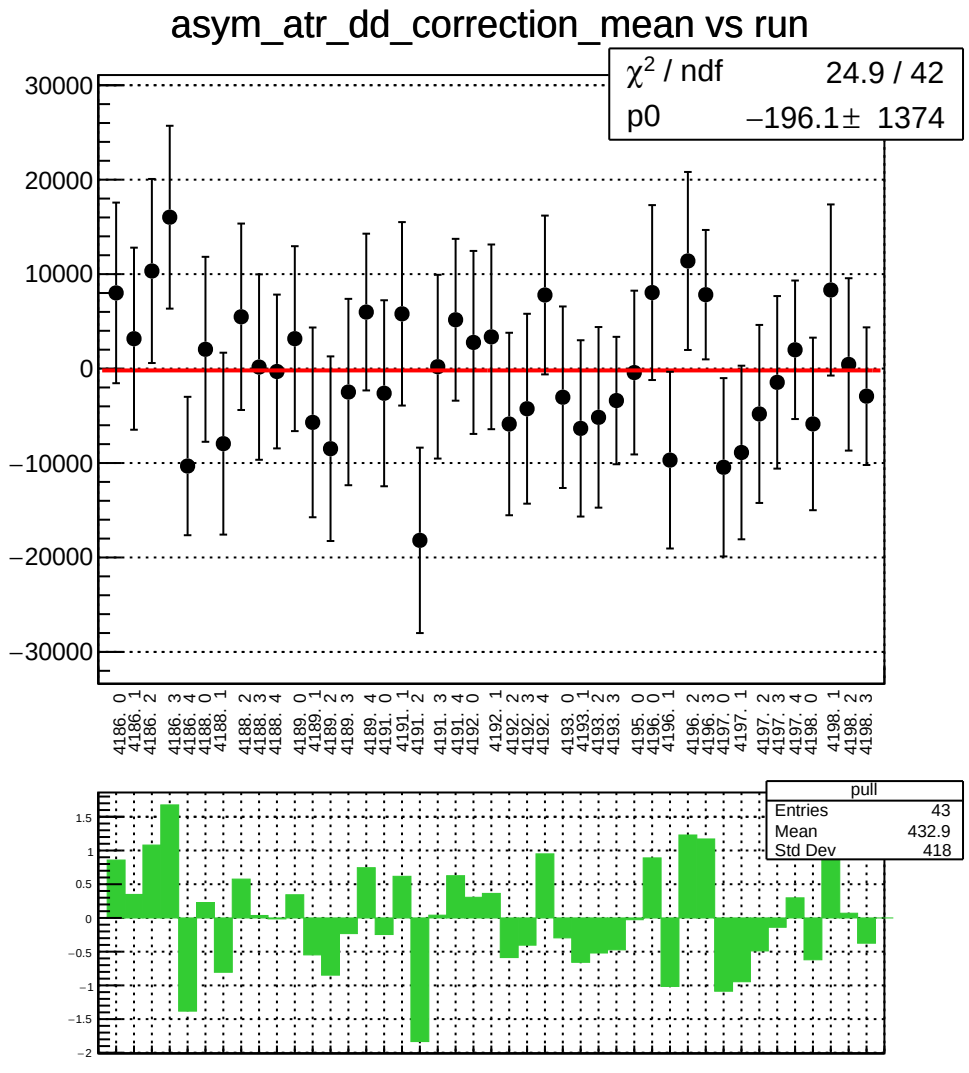

pull1D
Entries 43
Mean −0.0175
Std Dev 0.8309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

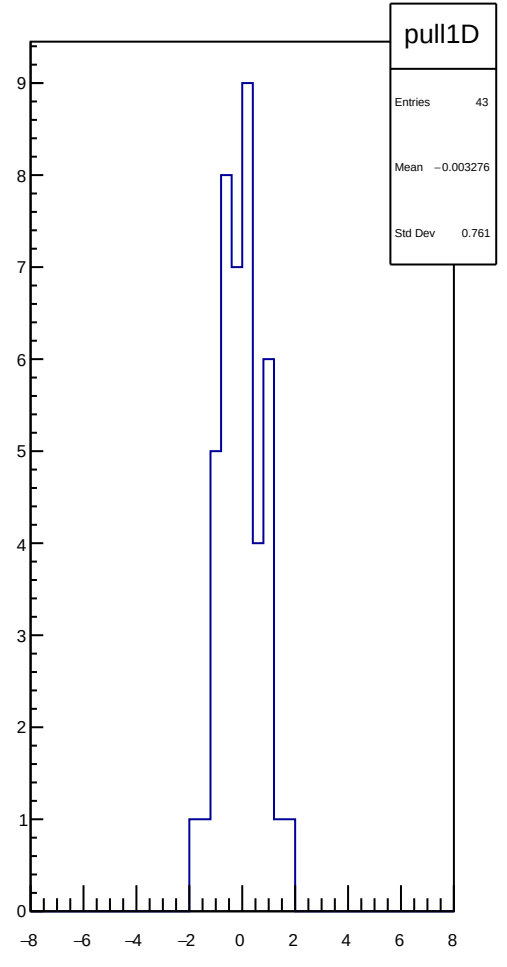

asym_atr_avg_rms vs run
χ² / ndf 575.8 / 42
p0 1344 ± 1.443
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

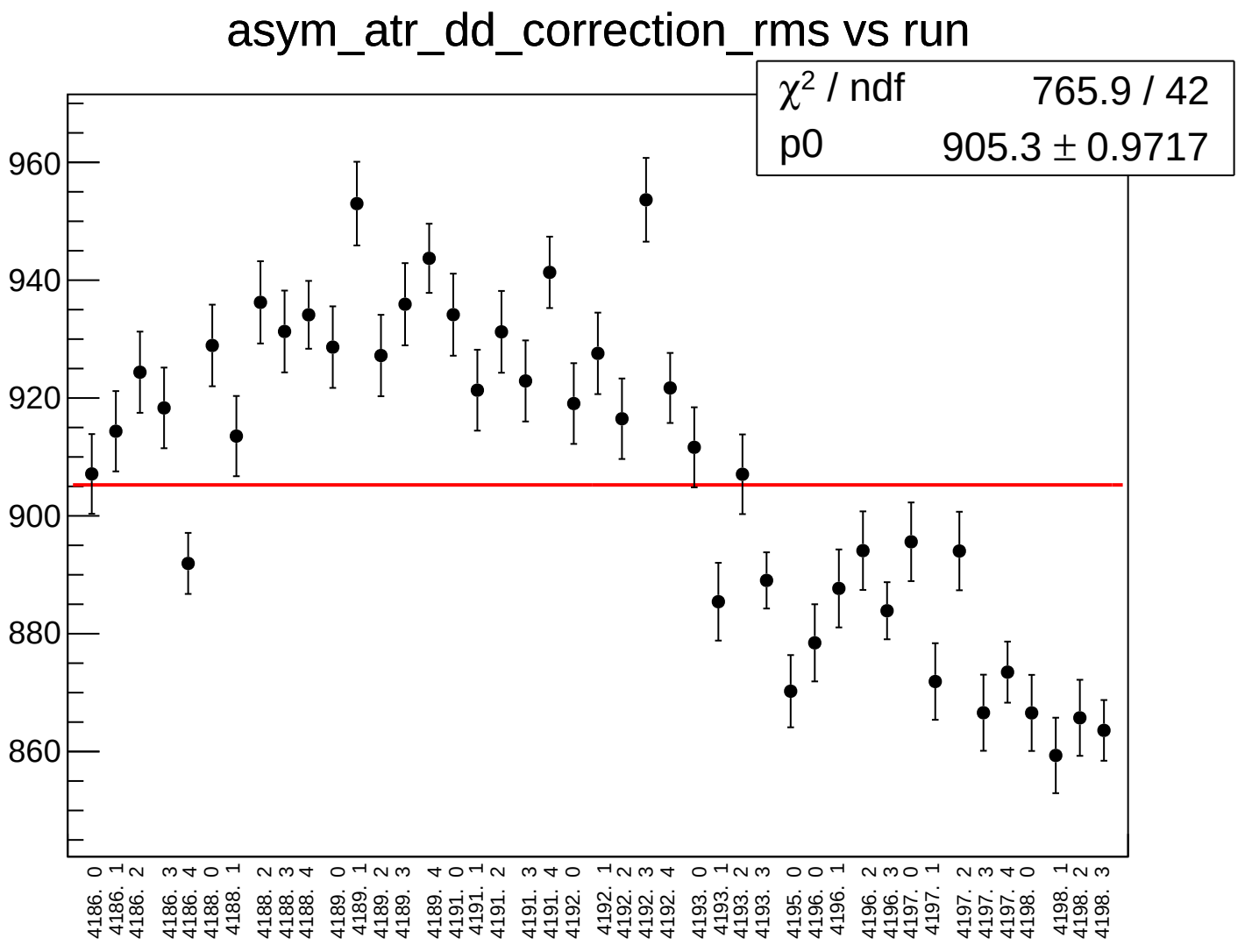

reg_asym_atr_dd_mean vs run
χ² / ndf 34.61 / 42
p0 −229.3 ± 425.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 103.8
Std Dev 63.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

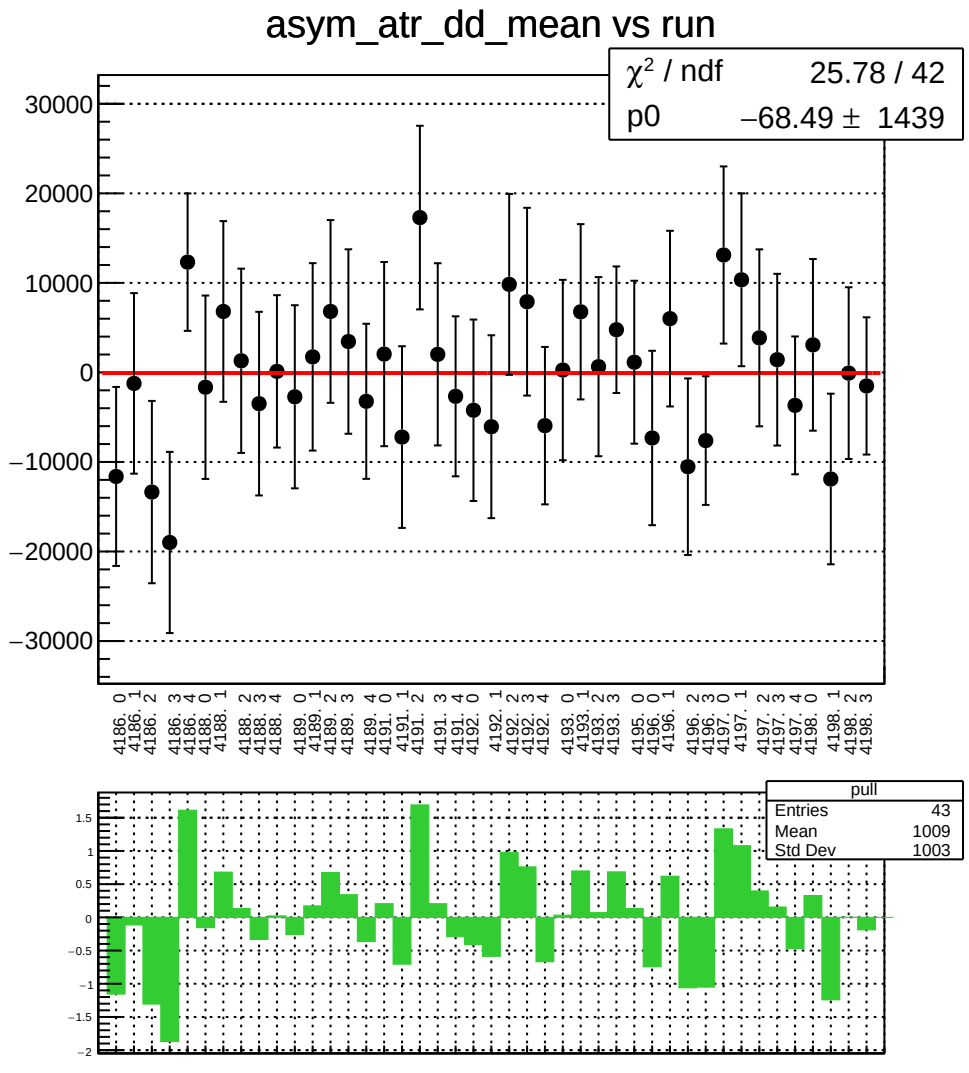

pull1D
Entries 43
Mean −0.01423
Std Dev 0.897
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

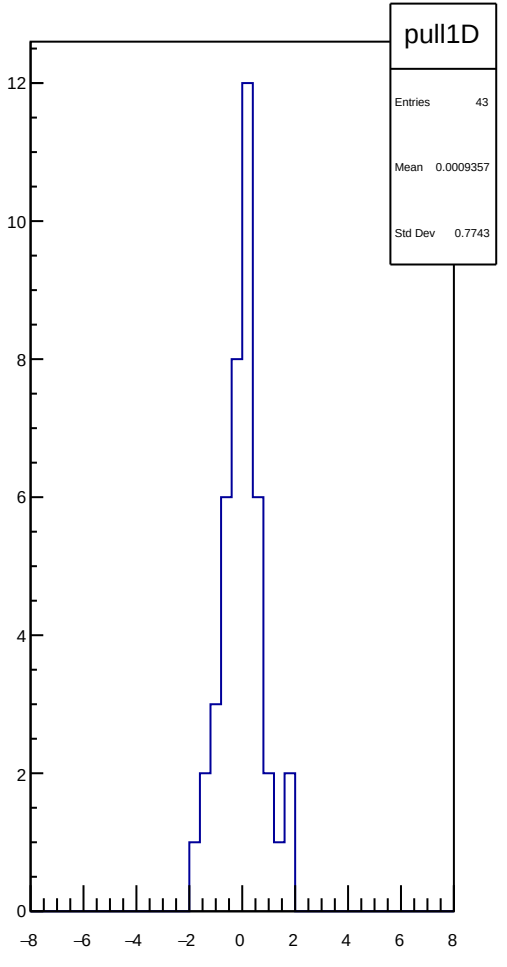

reg_asym_atr_dd_rms vs run
χ² / ndf 73.77 / 42
p0 280.2 ± 0.3007
288
286
284
282
280
278
276
274
272
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

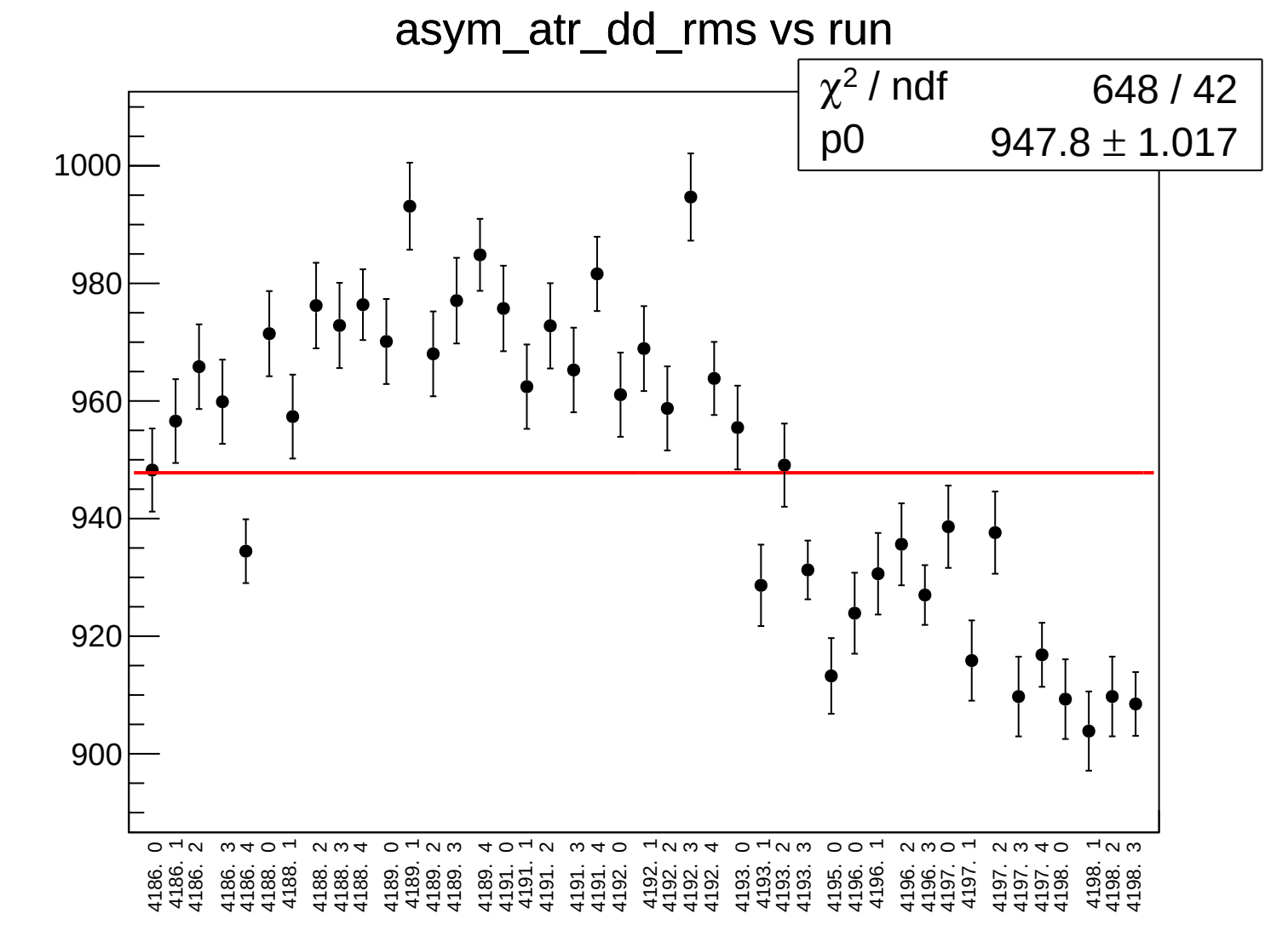

asym_atr_dd_correction_mean vs run
χ² / ndf 24.9 / 42
p0 −196.1± 1374
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 432.9
Std Dev 418
1.5
1
0.5
0
−0.5
−1
−1.5
−2

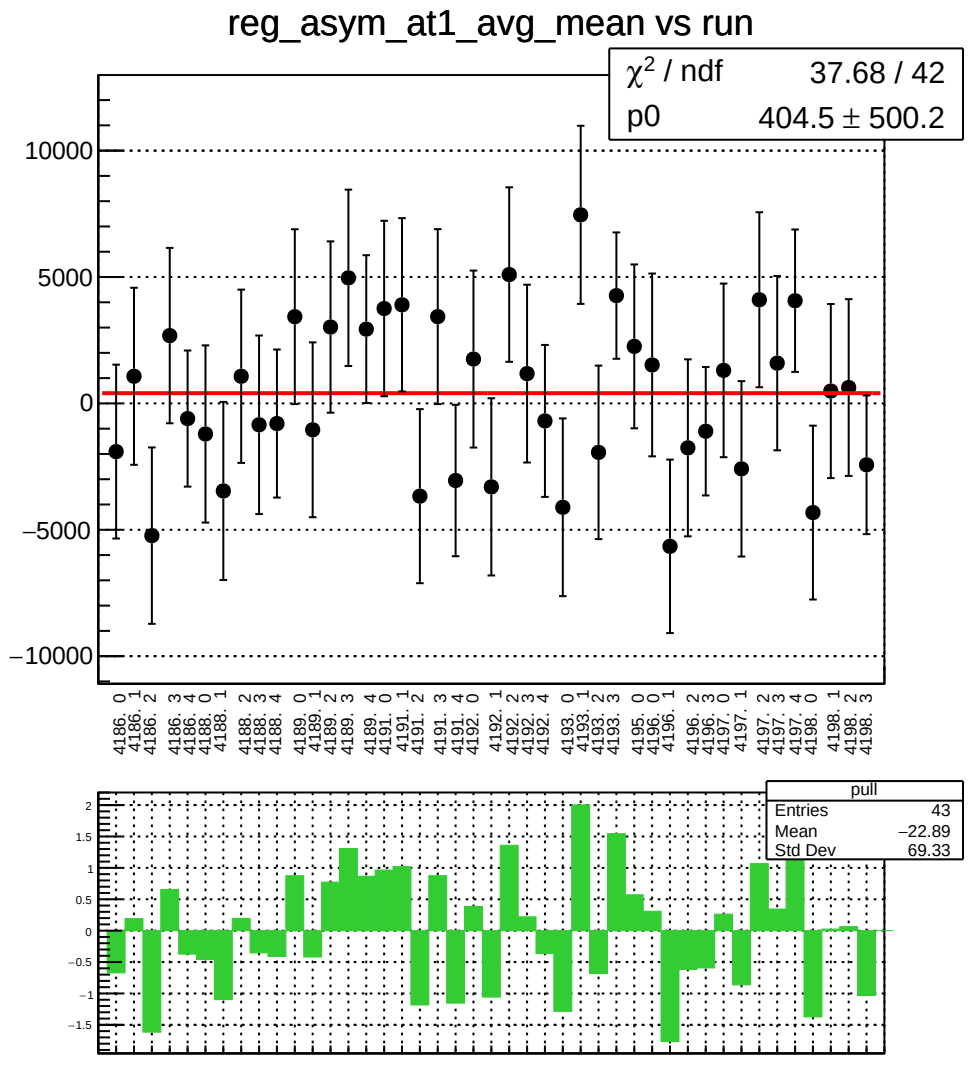

pull1D
Entries 43
Mean −0.003276
Std Dev 0.761
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

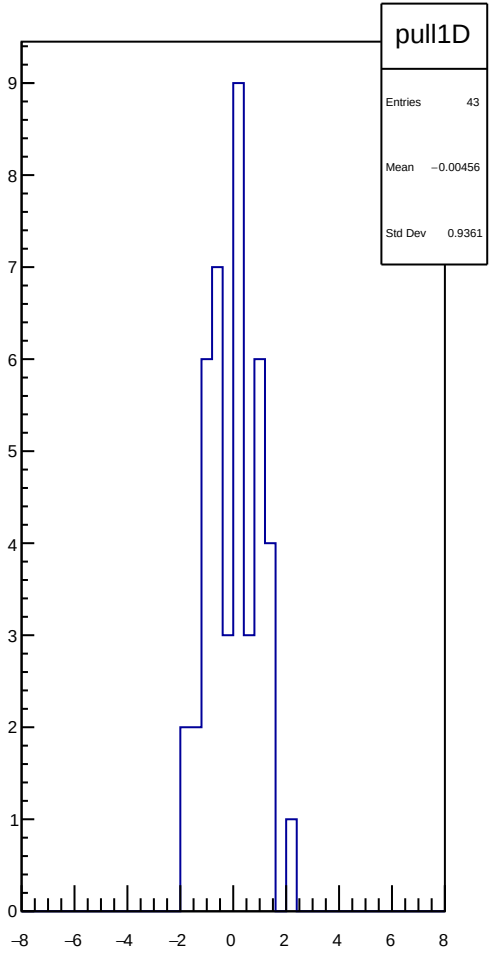

asym_atr_dd_correction_rms vs run
χ² / ndf 765.9 / 42
p0 905.3 ± 0.9717
960
940
920
900
880
860
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

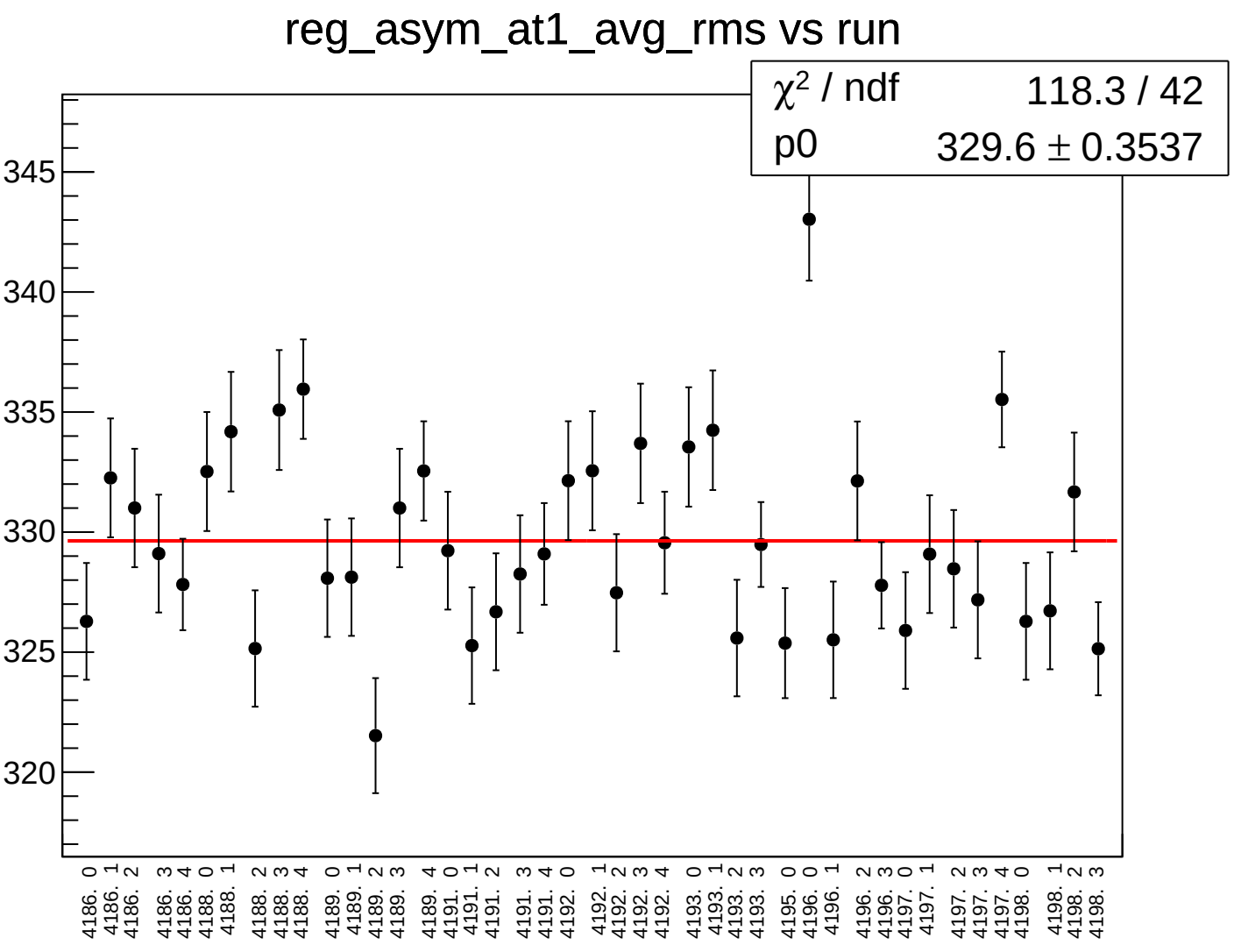

asym_atr_dd_mean vs run
χ² / ndf 25.78 / 42
p0 −68.49 ± 1439
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1009
Std Dev 1003
1.5
1
0.5
0
−0.5
−1
−1.5
−2

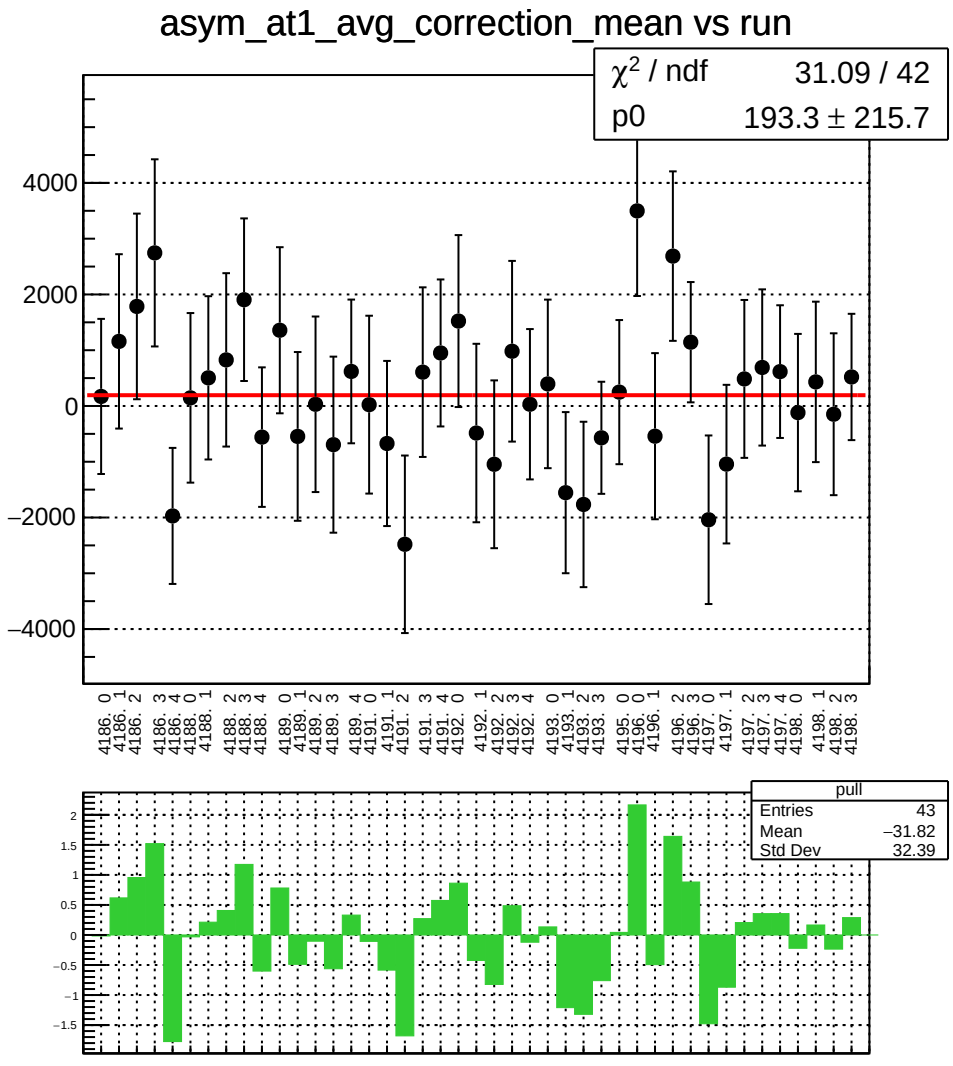

pull1D
Entries 43
Mean 0.0009357
Std Dev 0.7743
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

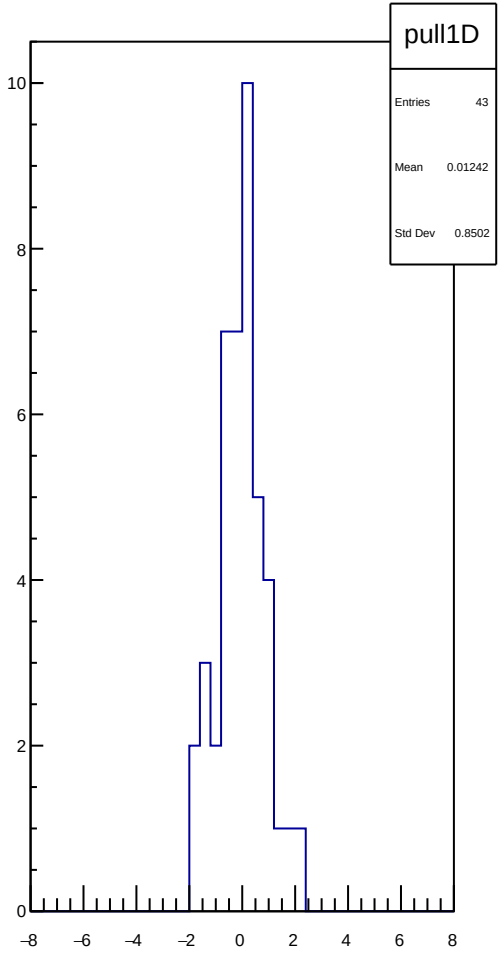

asym_atr_dd_rms vs run
χ^2 / ndf 648 / 42
p0 947.8 ± 1.017
1000
980
960
940
920
900
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

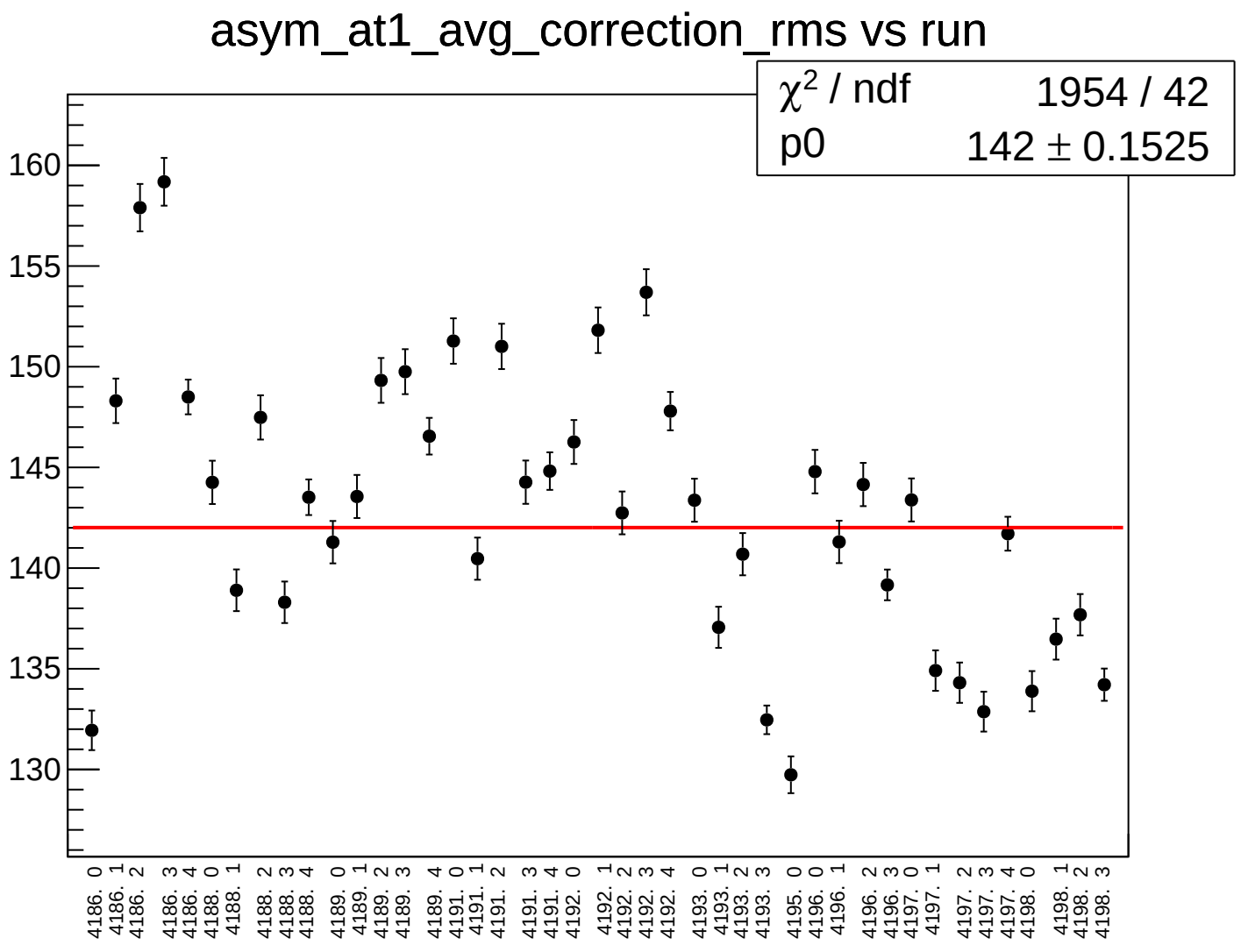

reg_asym_at1_avg_mean vs run
χ² / ndf 37.68 / 42
p0 404.5 ± 500.2
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −22.89
Std Dev 69.33
2
1.5
1
0.5
0
−0.5
−1
−1.5

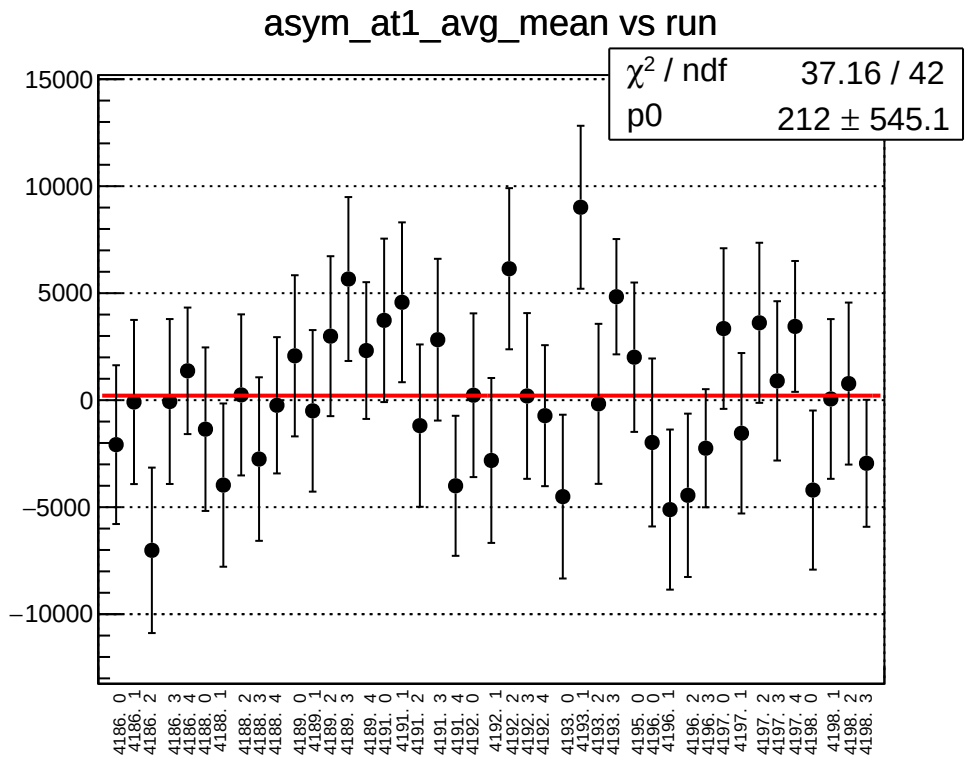

pull1D
Entries 43
Mean −0.00456
Std Dev 0.9361
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

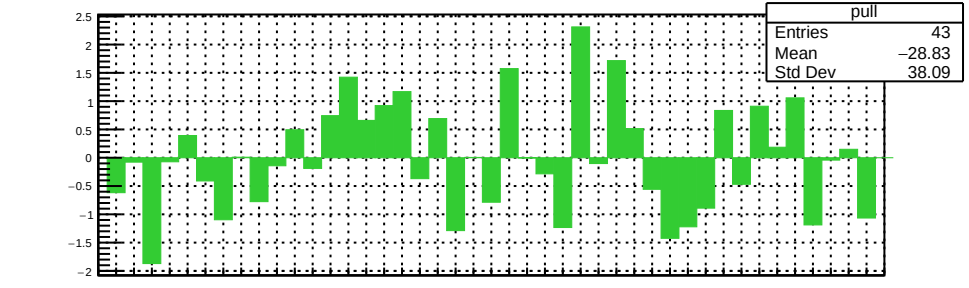

reg_asym_at1_avg_rms vs run
χ^2 / ndf 118.3 / 42
p0 329.6 ± 0.3537
345
340
335
330
325
320
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

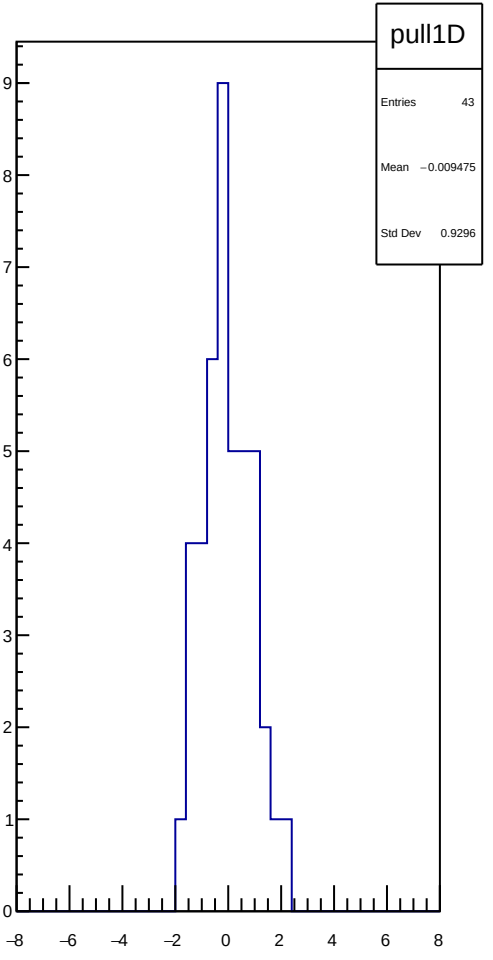

asym_at1_avg_correction_mean vs run
χ² / ndf 31.09 / 42
p0 193.3 ± 215.7
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −31.82
Std Dev 32.39
2
1.5
1
0.5
0
−0.5
−1
−1.5

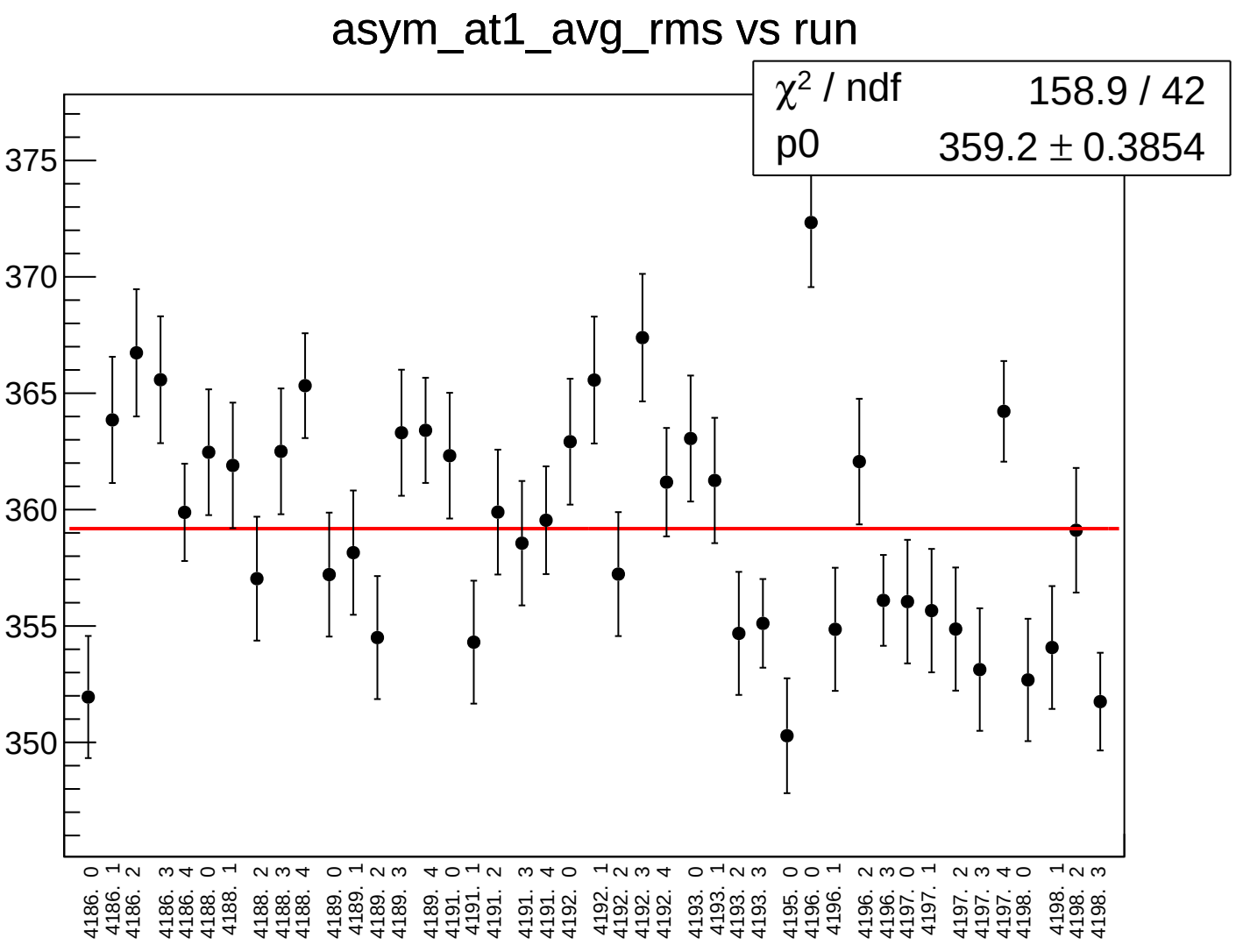

pull1D
Entries 43
Mean 0.01242
Std Dev 0.8502
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

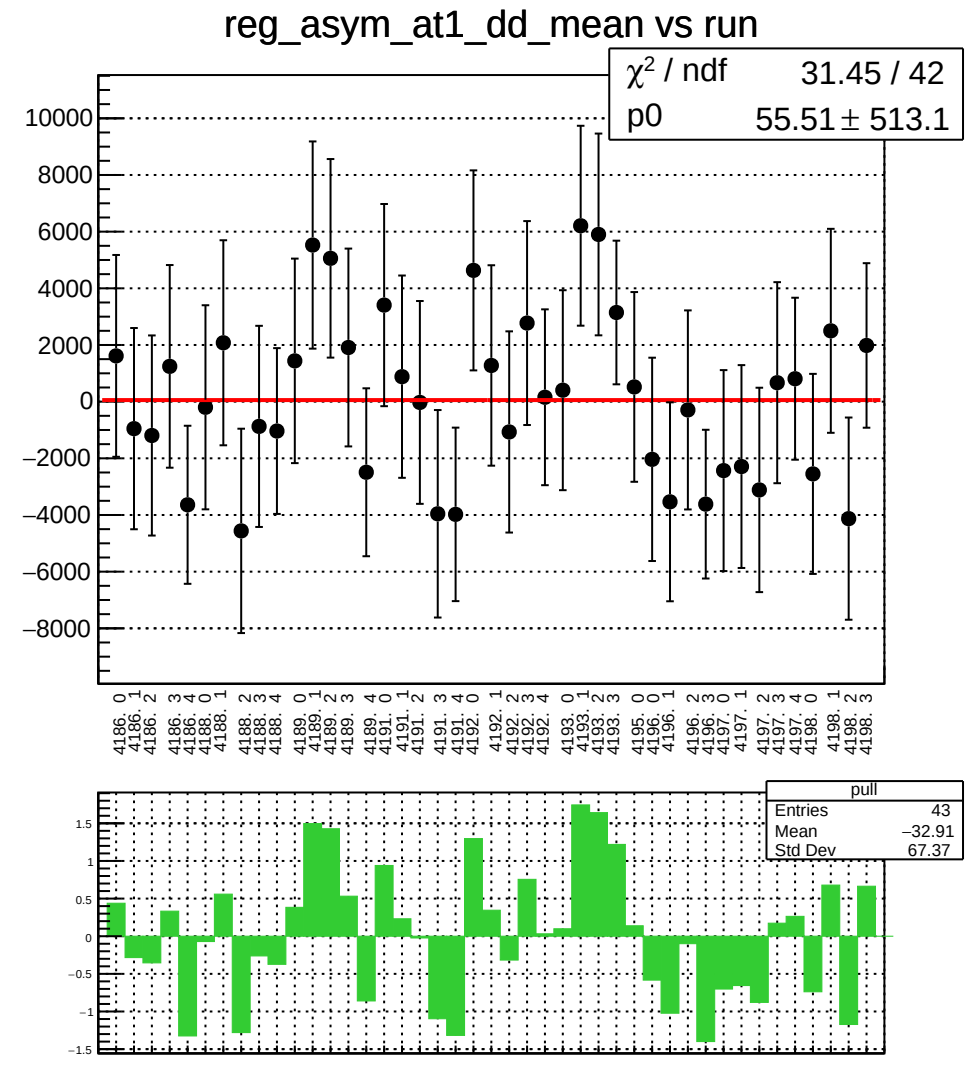

asym_at1_avg_correction_rms vs run
χ² / ndf 1954 / 42
p0 142 ± 0.1525
160
155
150
145
140
135
130
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

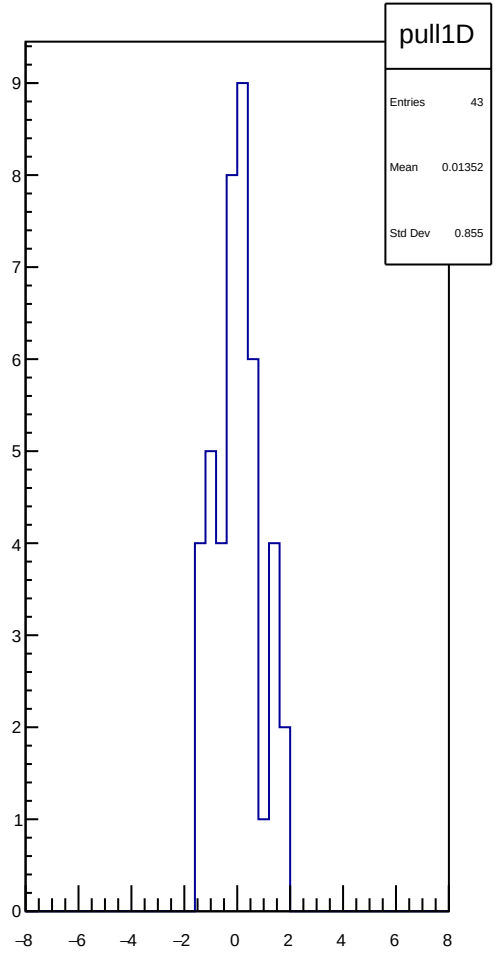

asym_at1_avg_mean vs run
χ² / ndf 37.16 / 42
p0 212 ± 545.1
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

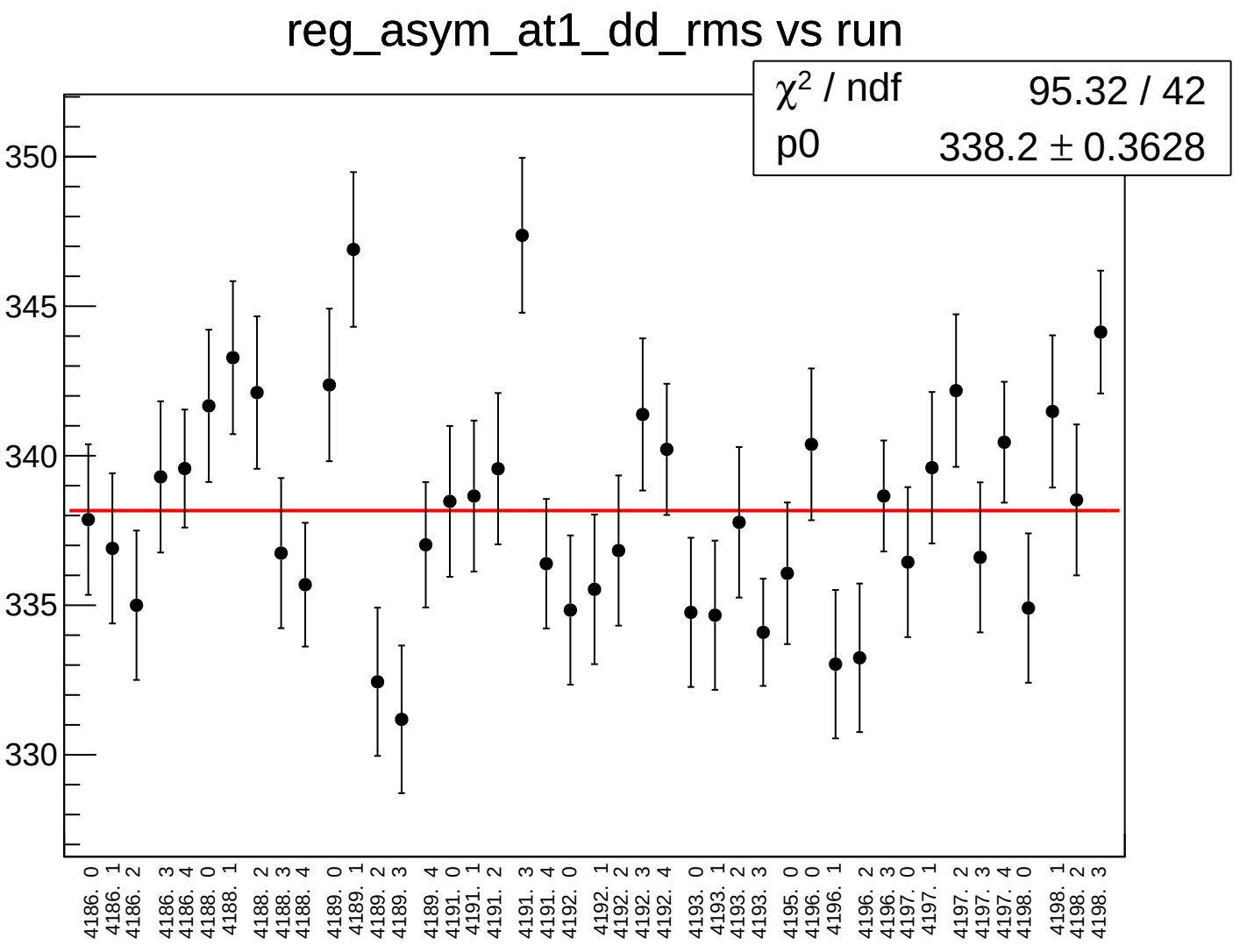

pull
Entries 43
Mean −28.83
Std Dev 38.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

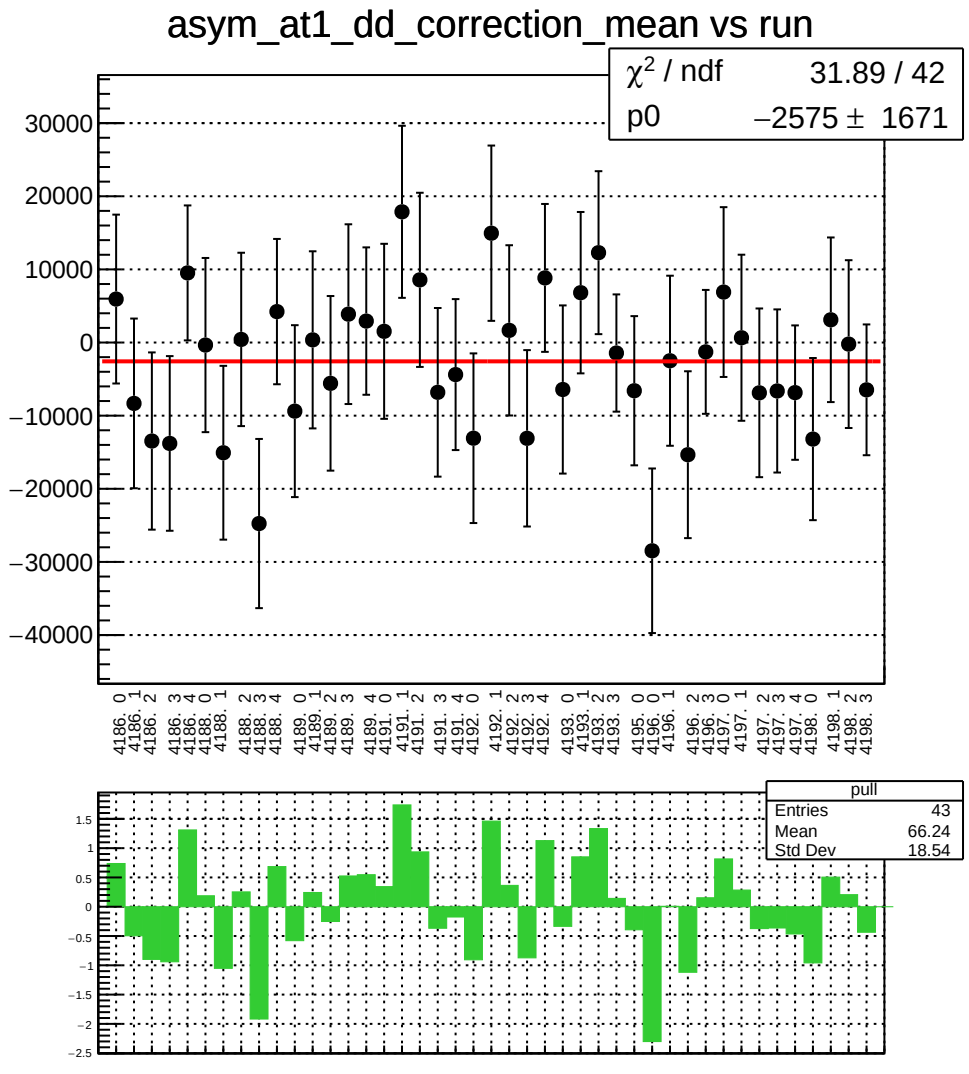

pull1D
Entries 43
Mean −0.009475
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

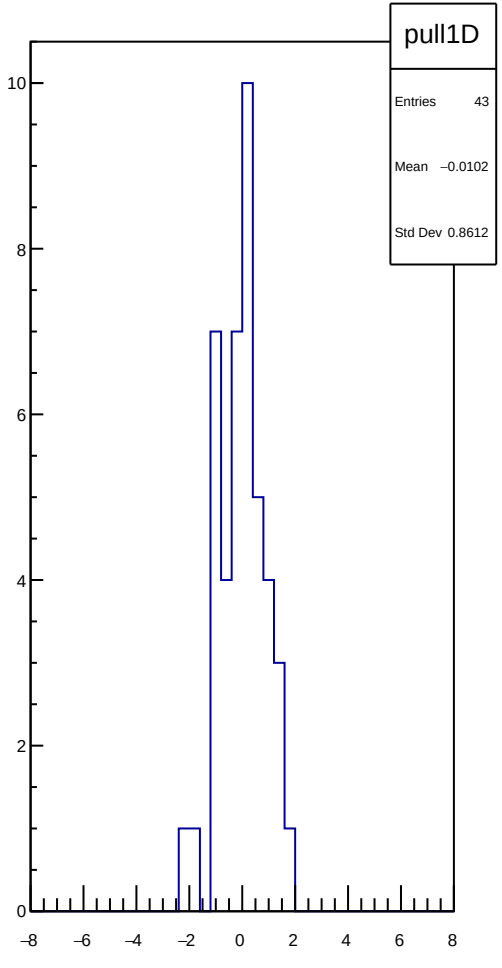

asym_at1_avg_rms vs run
χ² / ndf 158.9 / 42
p0 359.2 ± 0.3854
375
370
365
360
355
350
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

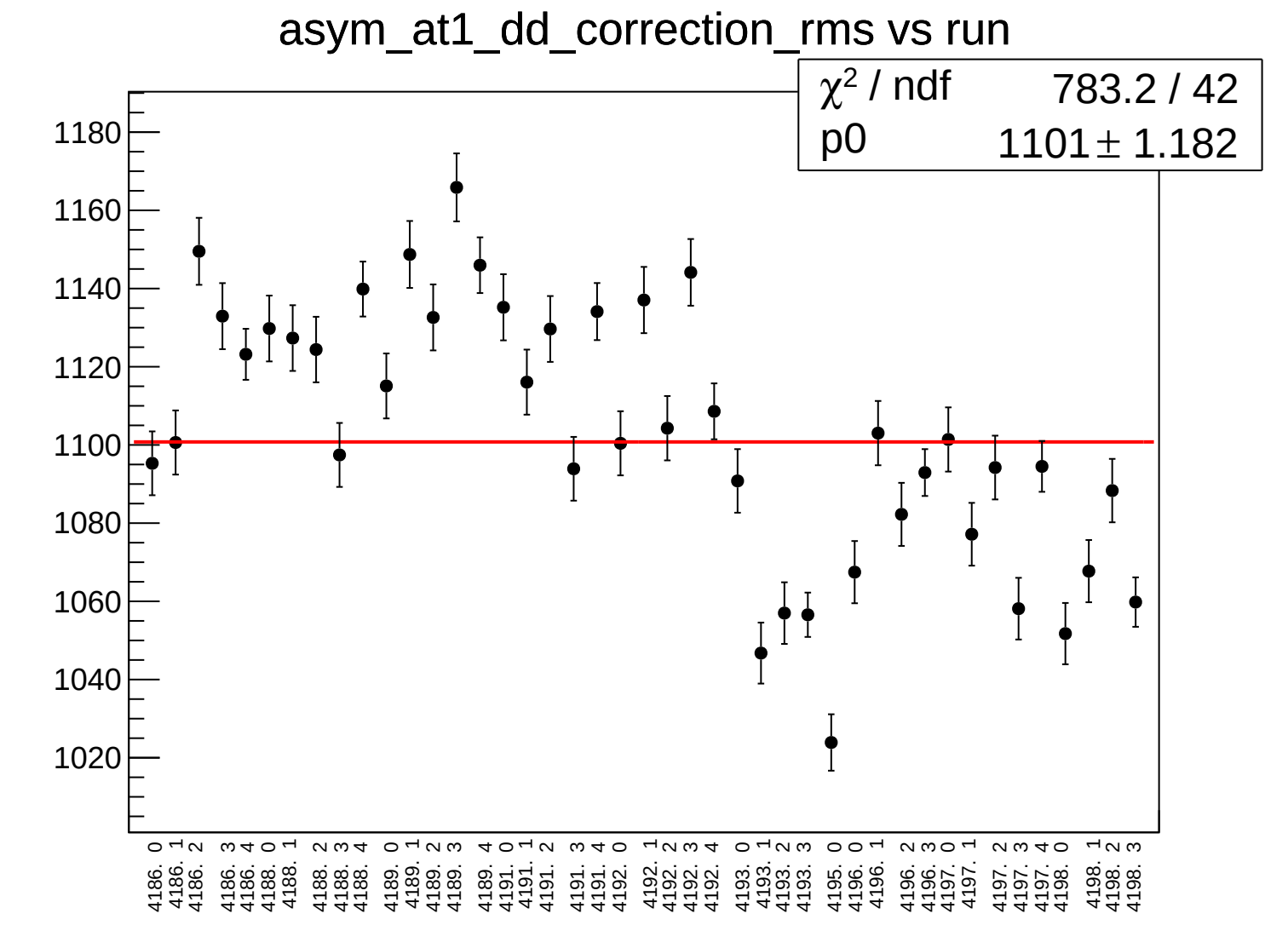

reg_asym_at1_dd_mean vs run
χ² / ndf 31.45 / 42
p0 55.51 ± 513.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −32.91
Std Dev 67.37
1.5
1
0.5
0
−0.5
−1
−1.5

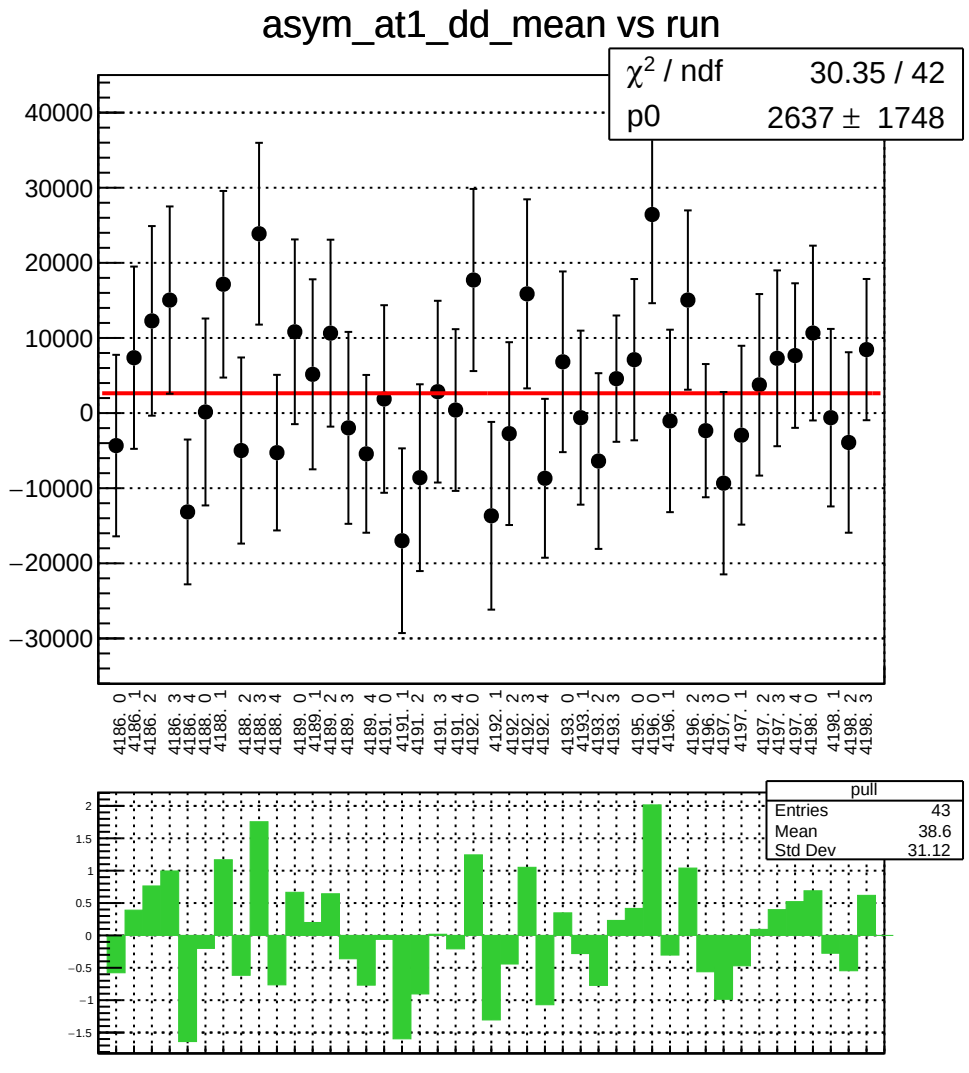

pull1D
Entries 43
Mean 0.01352
Std Dev 0.855
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

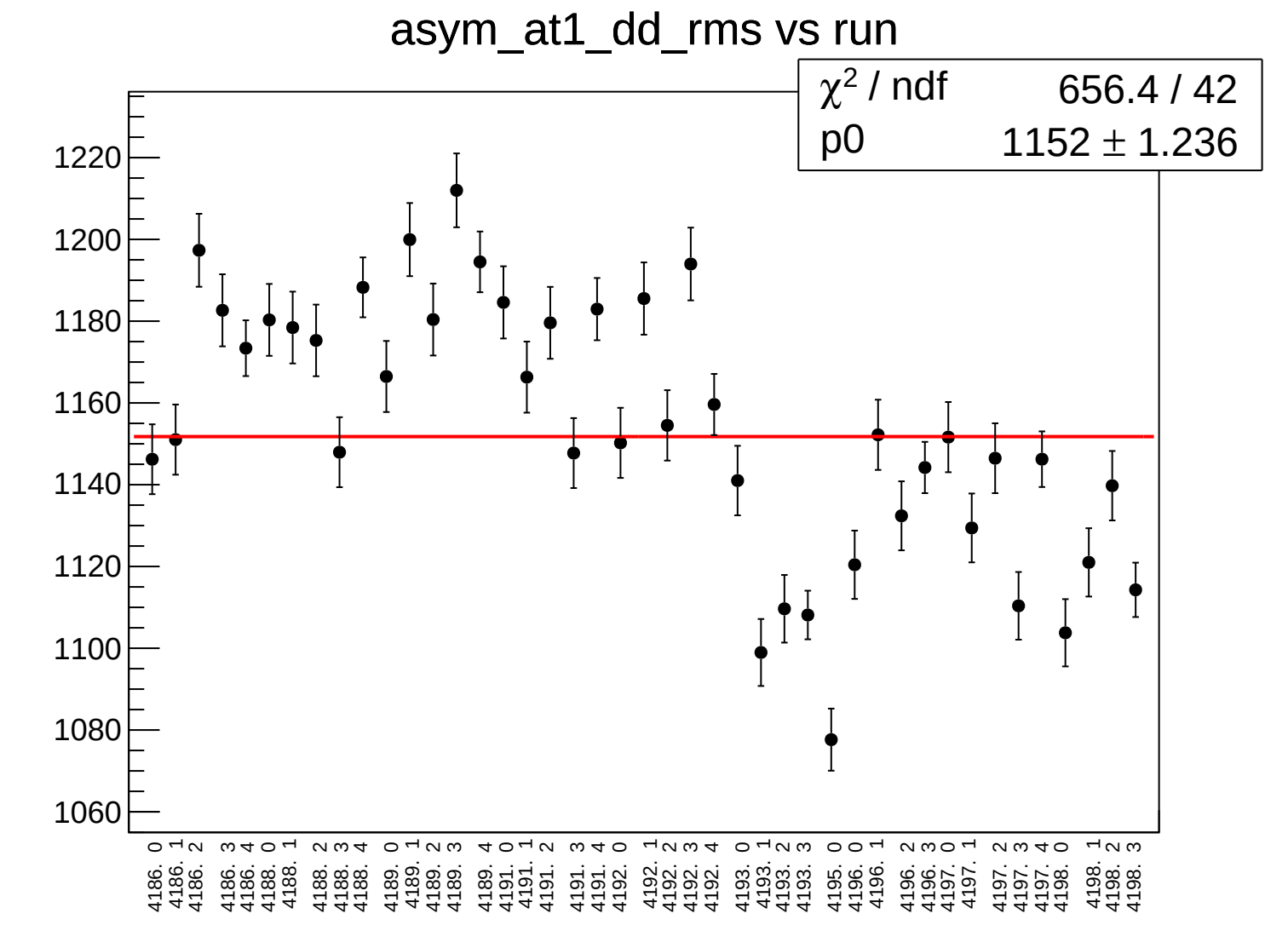

reg_asym_at1_dd_rms vs run
χ² / ndf 95.32 / 42
p0 338.2 ± 0.3628
350
345
340
335
330
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

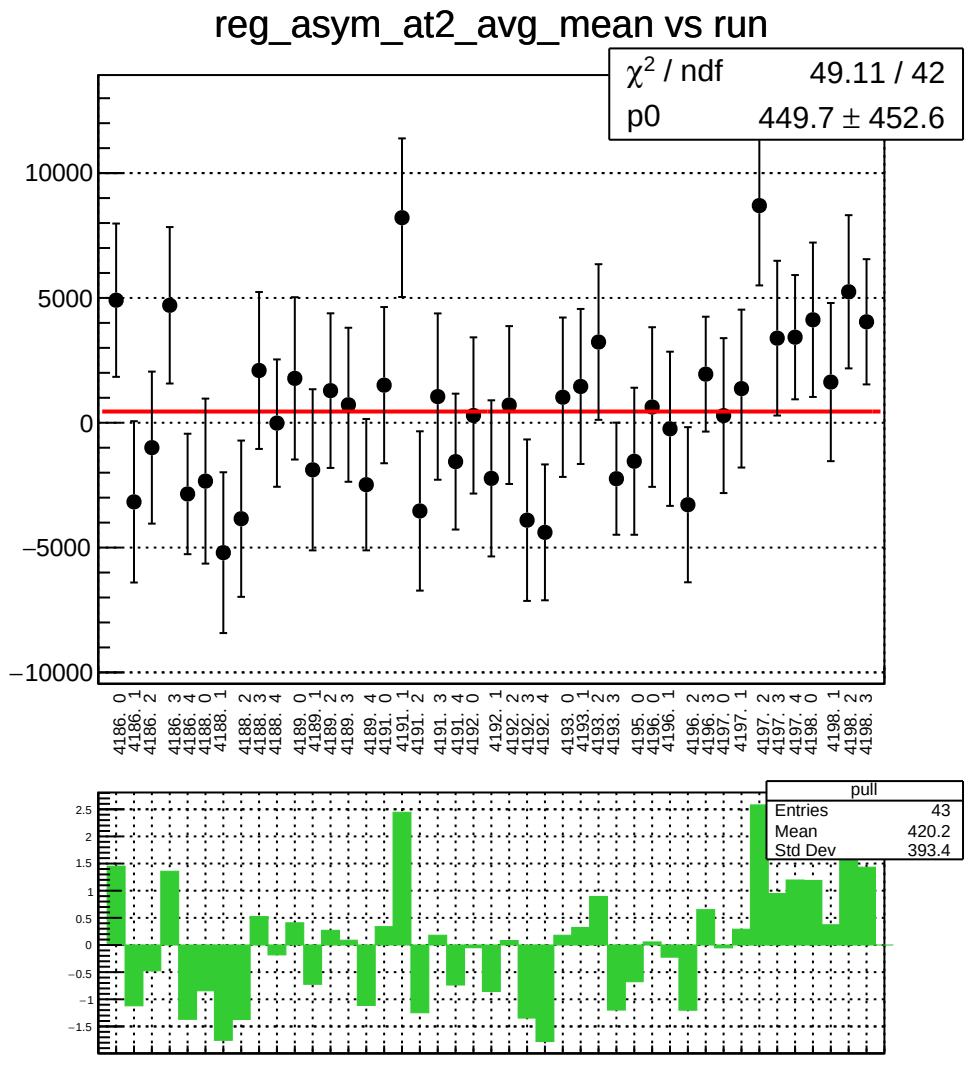

asym_at1_dd_correction_mean vs run
χ² / ndf 31.89 / 42
p0 −2575 ± 1671
pull
Entries 43
Mean 66.24
Std Dev 18.54

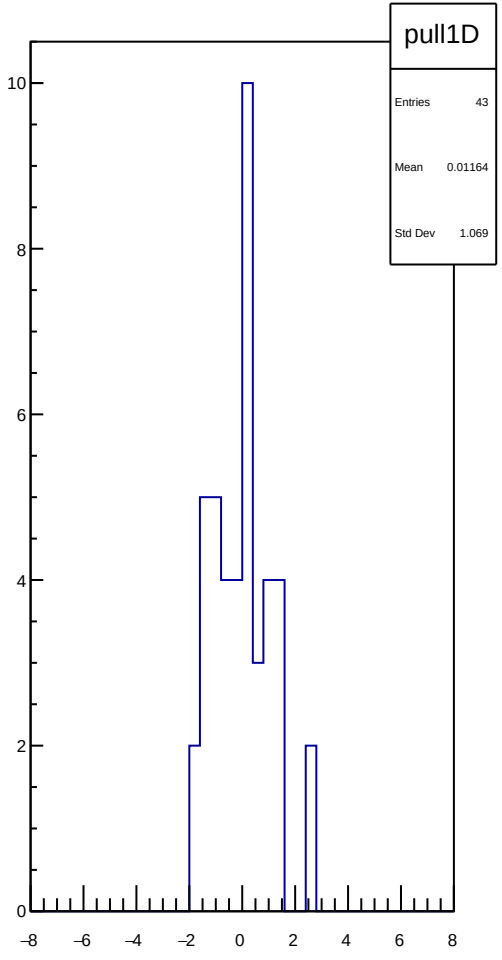

pull1D
Entries 43
Mean −0.0102
Std Dev 0.8612

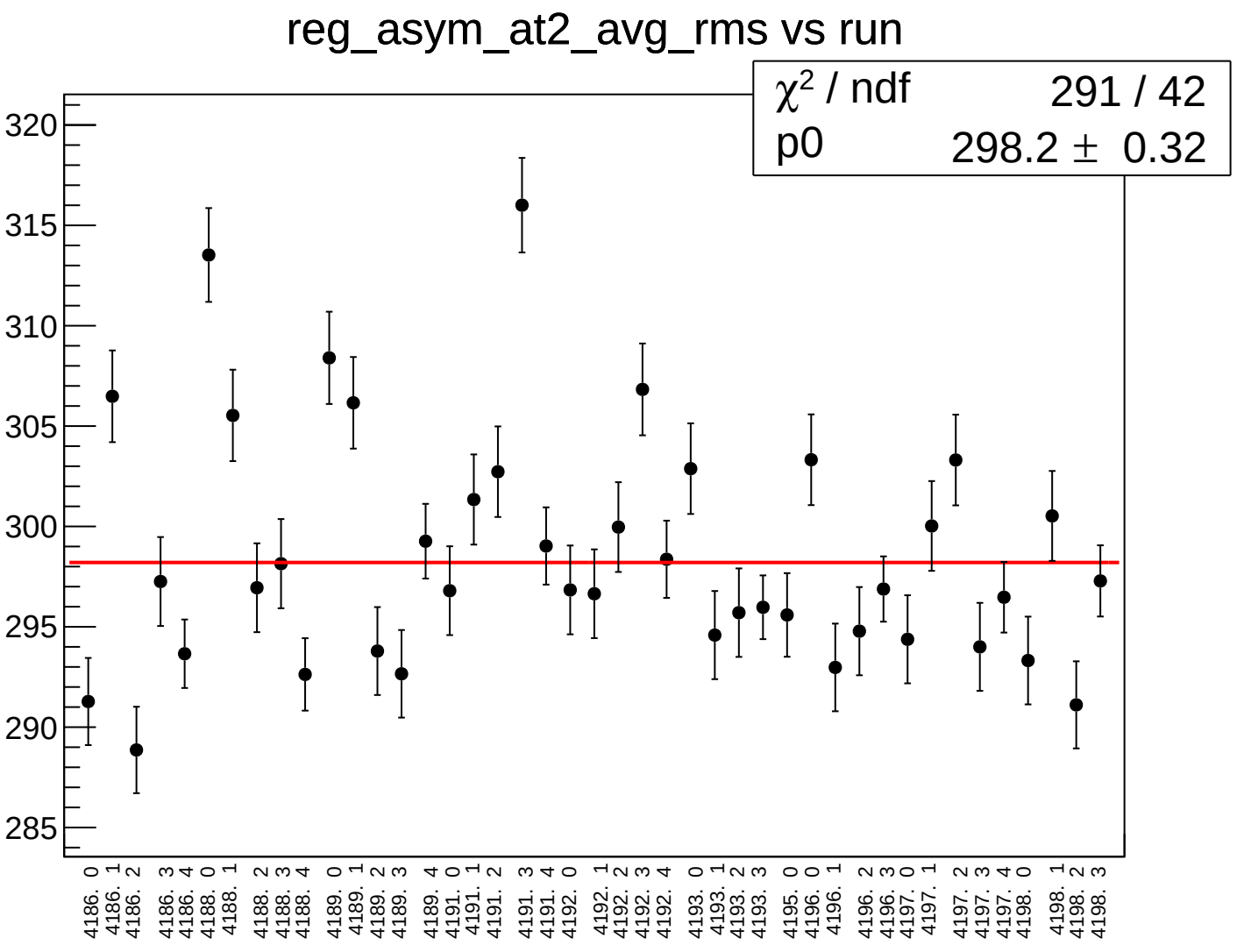

asym_at1_dd_correction_rms vs run
χ² / ndf 783.2 / 42
p0 1101 ± 1.182
1180
1160
1140
1120
1100
1080
1060
1040
1020
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

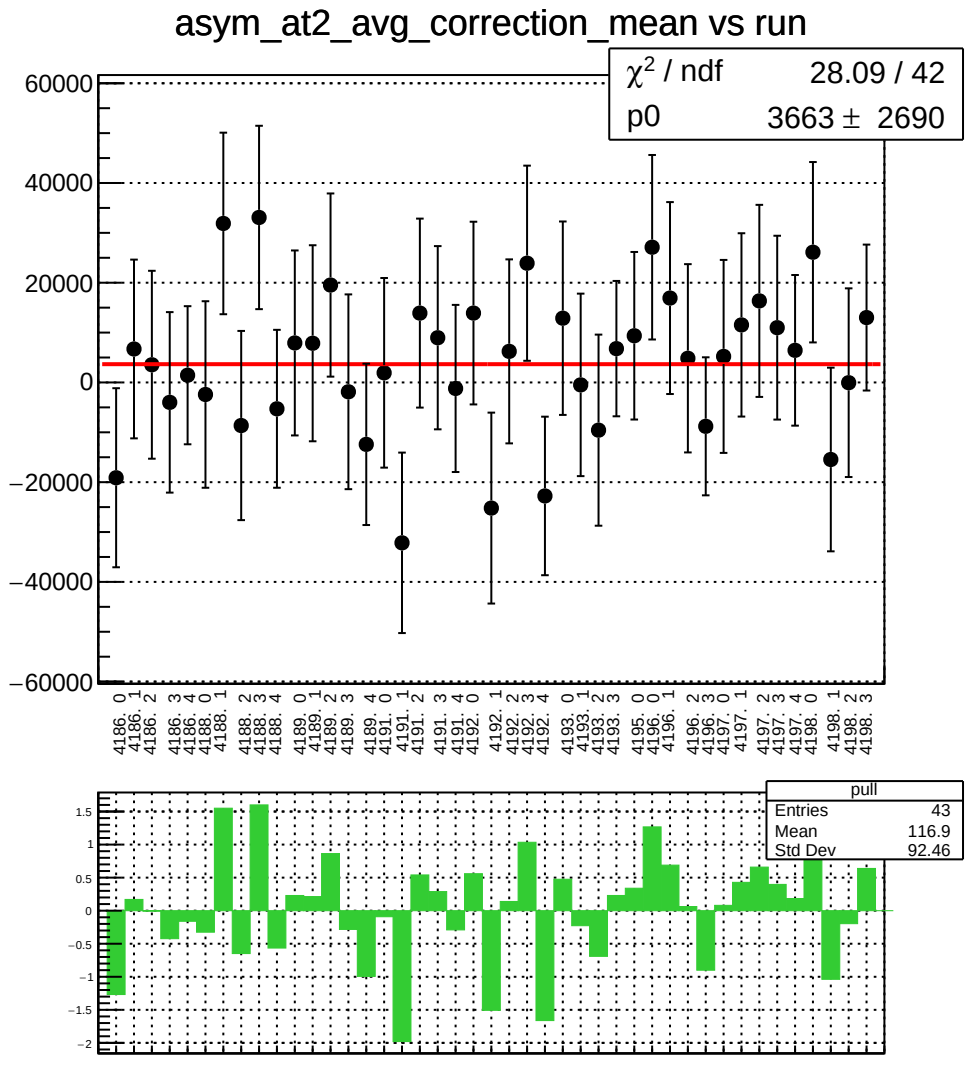

asym_at1_dd_mean vs run
χ² / ndf 30.35 / 42
p0 2637 ± 1748
40000
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 38.6
Std Dev 31.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01318
Std Dev 0.84
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

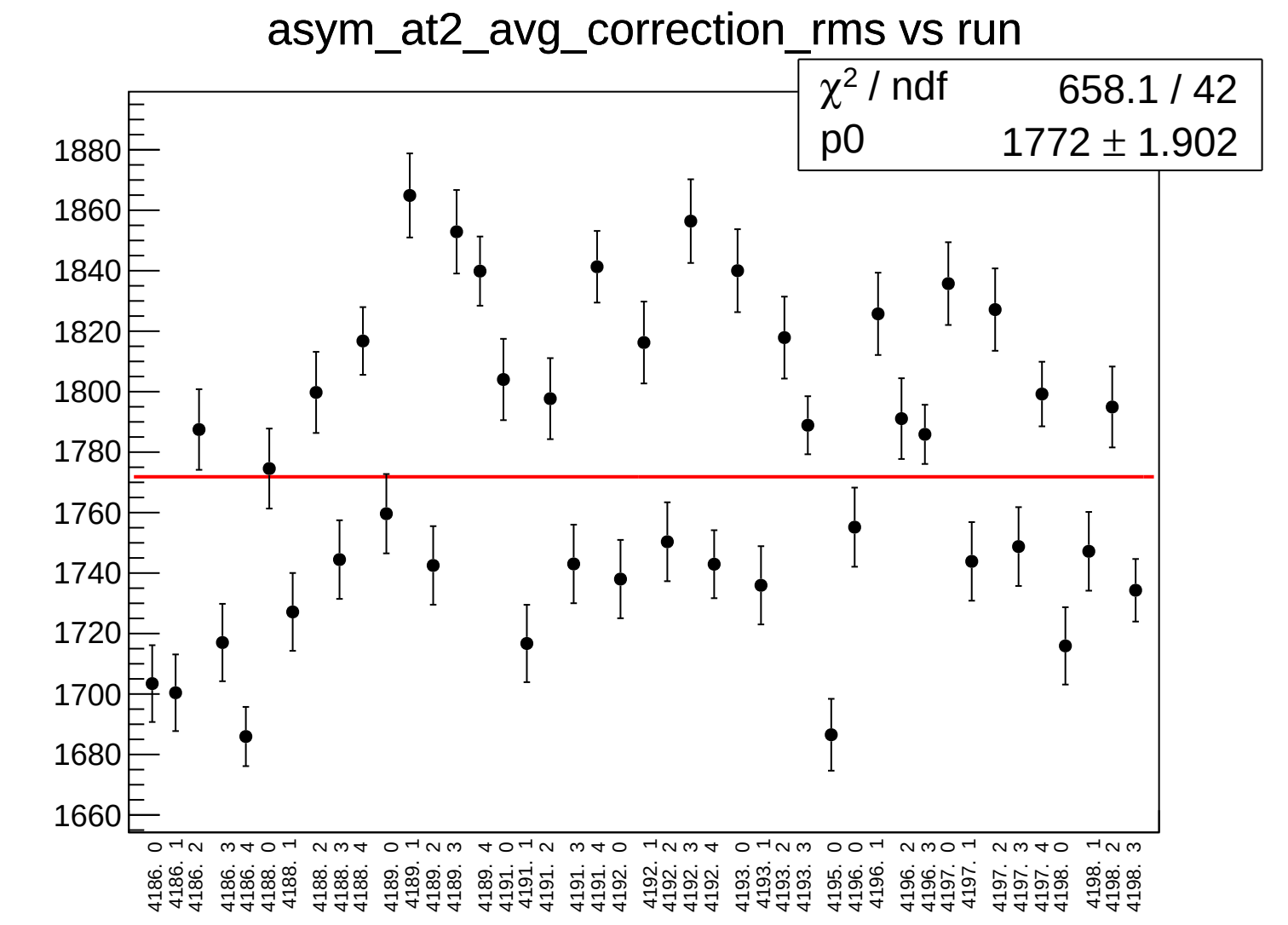

asym_at1_dd_rms vs run
χ² / ndf 656.4 / 42
p0 1152 ± 1.236
1220
1200
1180
1160
1140
1120
1100
1080
1060
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

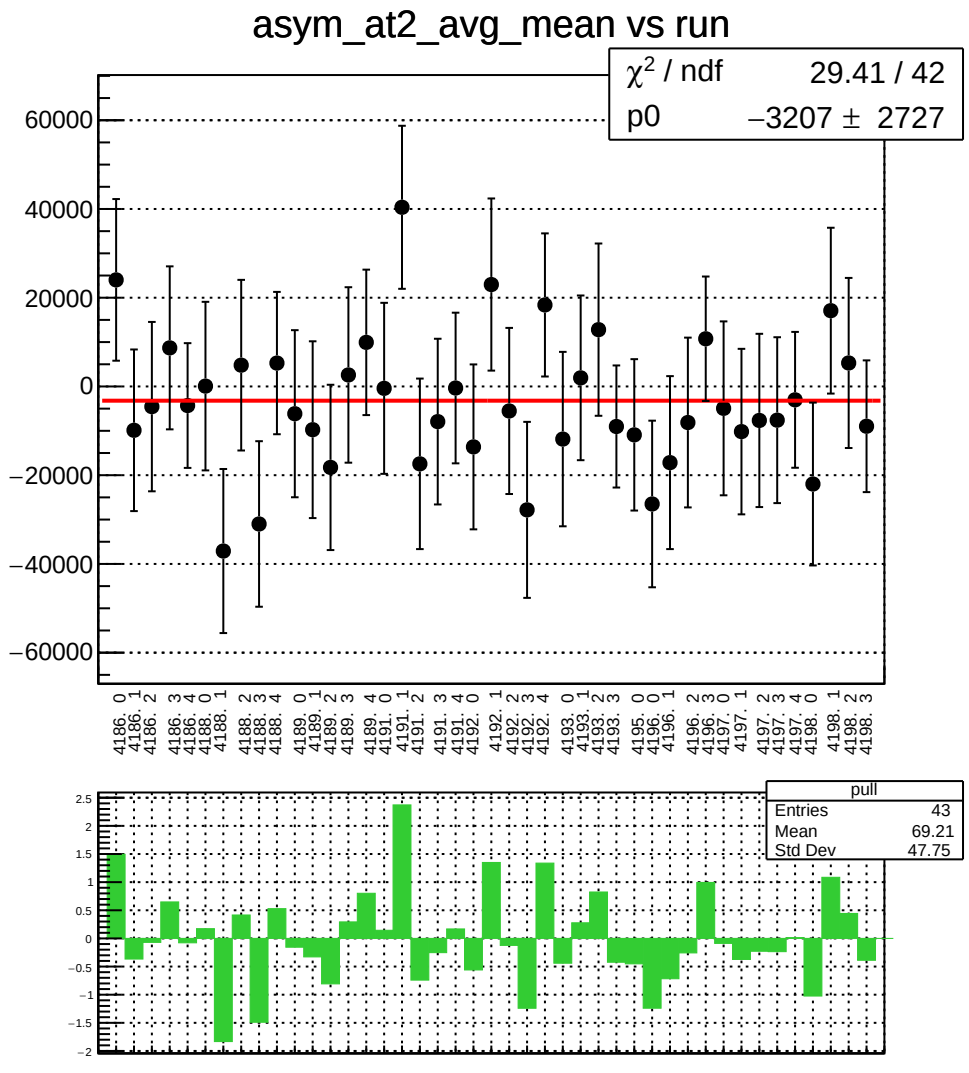

reg_asym_at2_avg_mean vs run
χ² / ndf 49.11 / 42
p0 449.7 ± 452.6
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 420.2
Std Dev 393.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

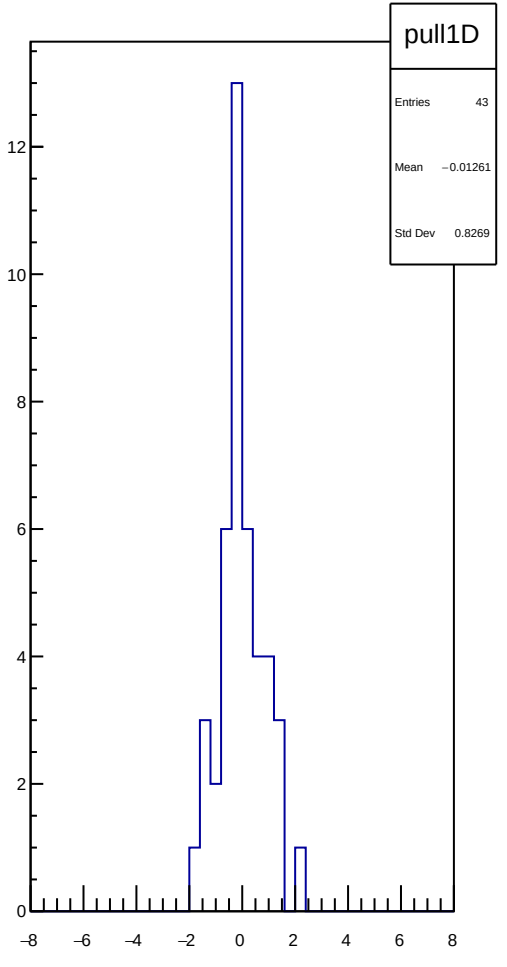

pull1D
Entries 43
Mean 0.01164
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

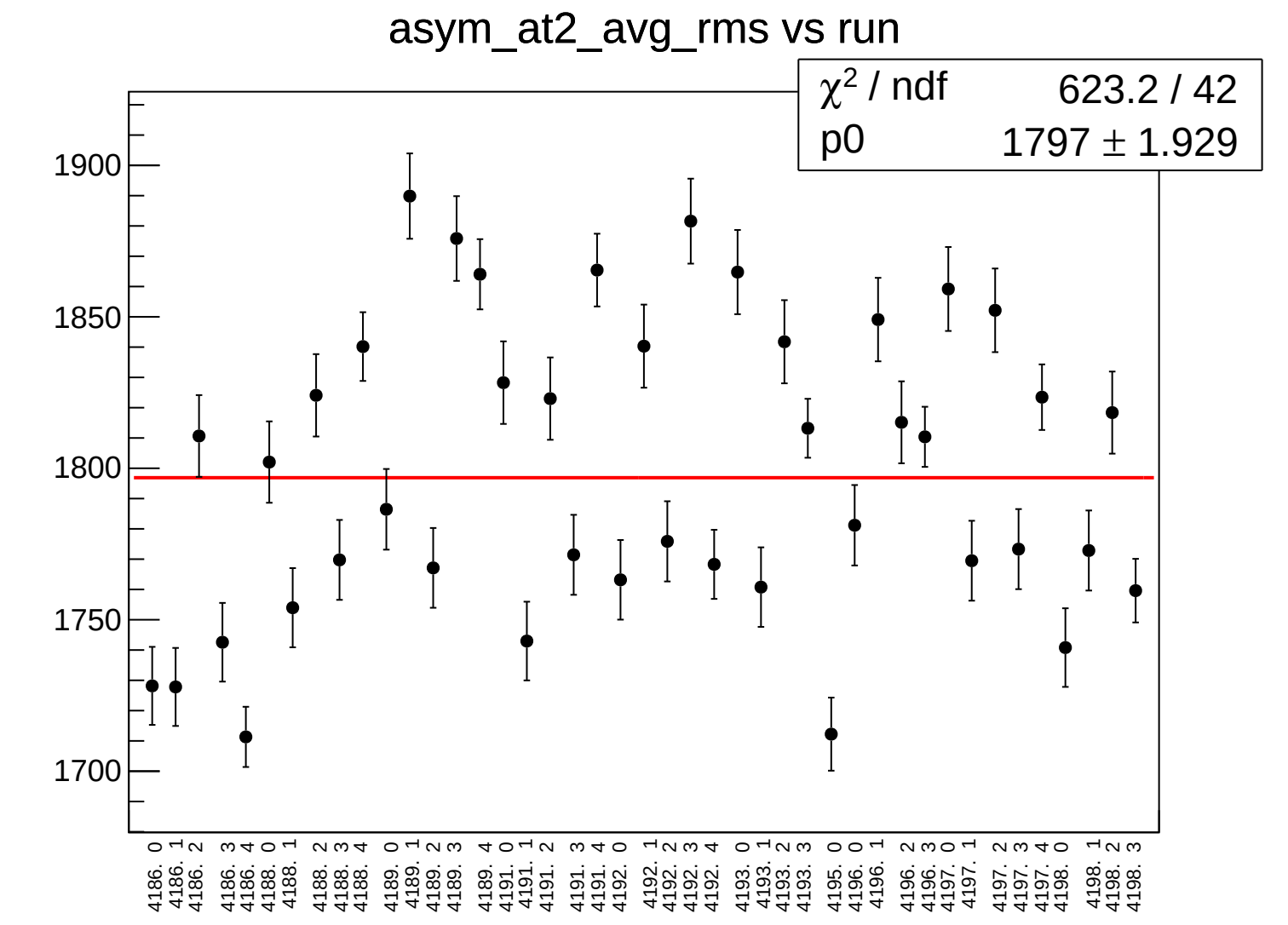

reg_asym_at2_avg_rms vs run
χ² / ndf 291 / 42
p0 298.2 ± 0.32
320
315
310
305
300
295
290
285
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

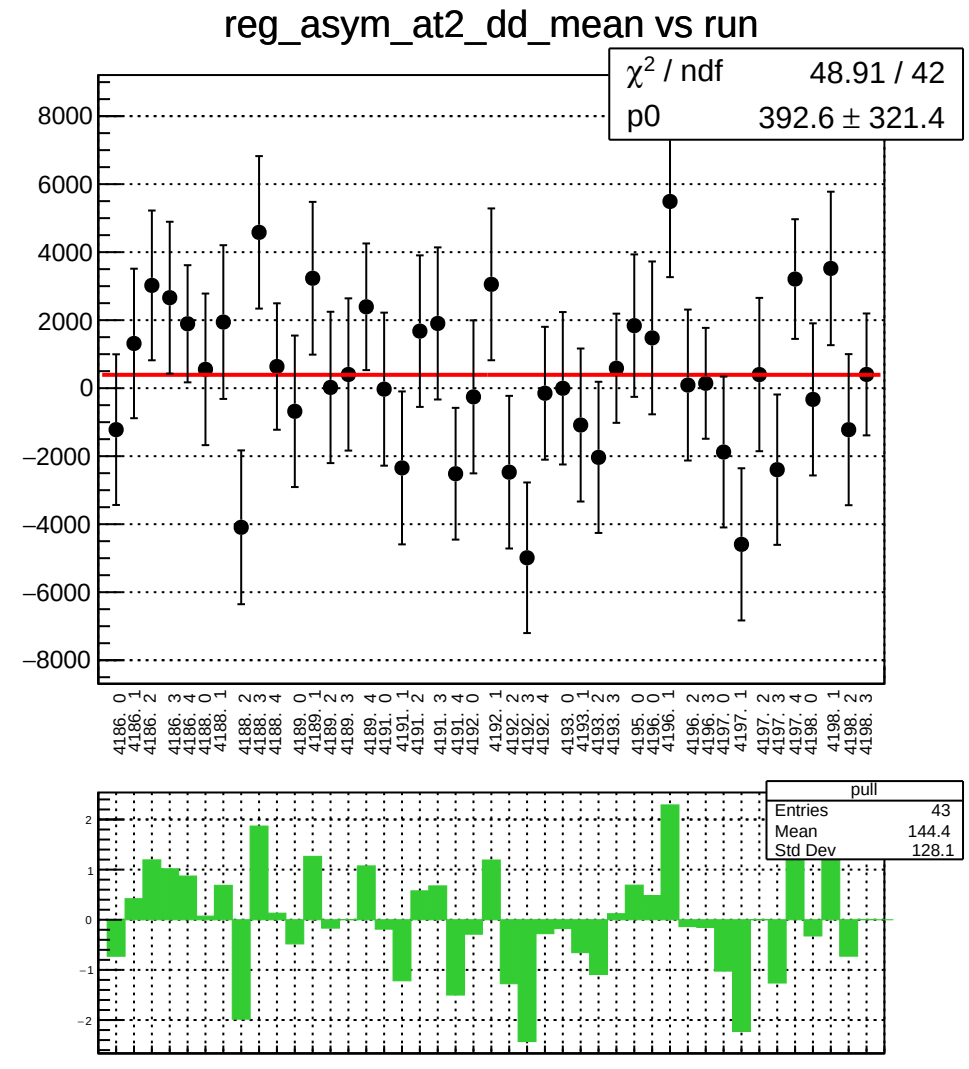

asym_at2_avg_correction_mean vs run
χ² / ndf 28.09 / 42
p0 3663 ± 2690
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 116.9
Std Dev 92.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01459
Std Dev 0.8081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

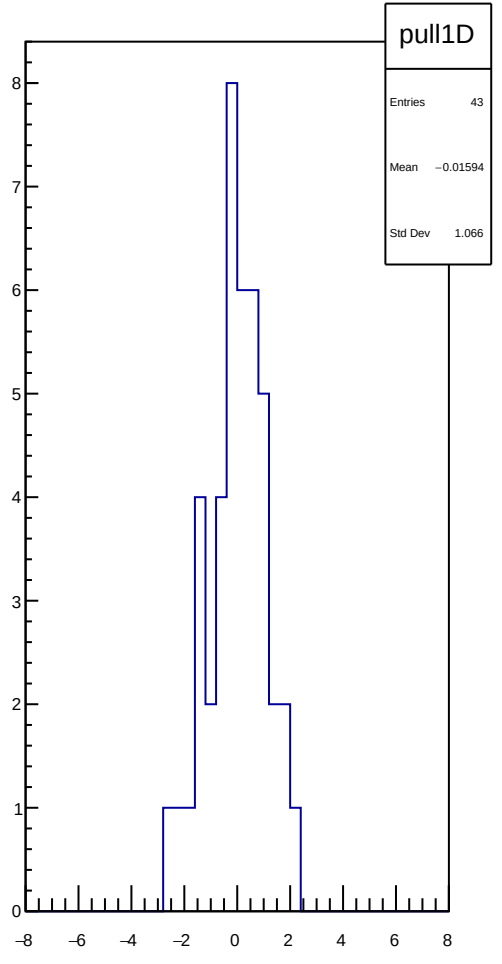

asym_at2_avg_correction_rms vs run
χ² / ndf 658.1 / 42
p0 1772 ± 1.902
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

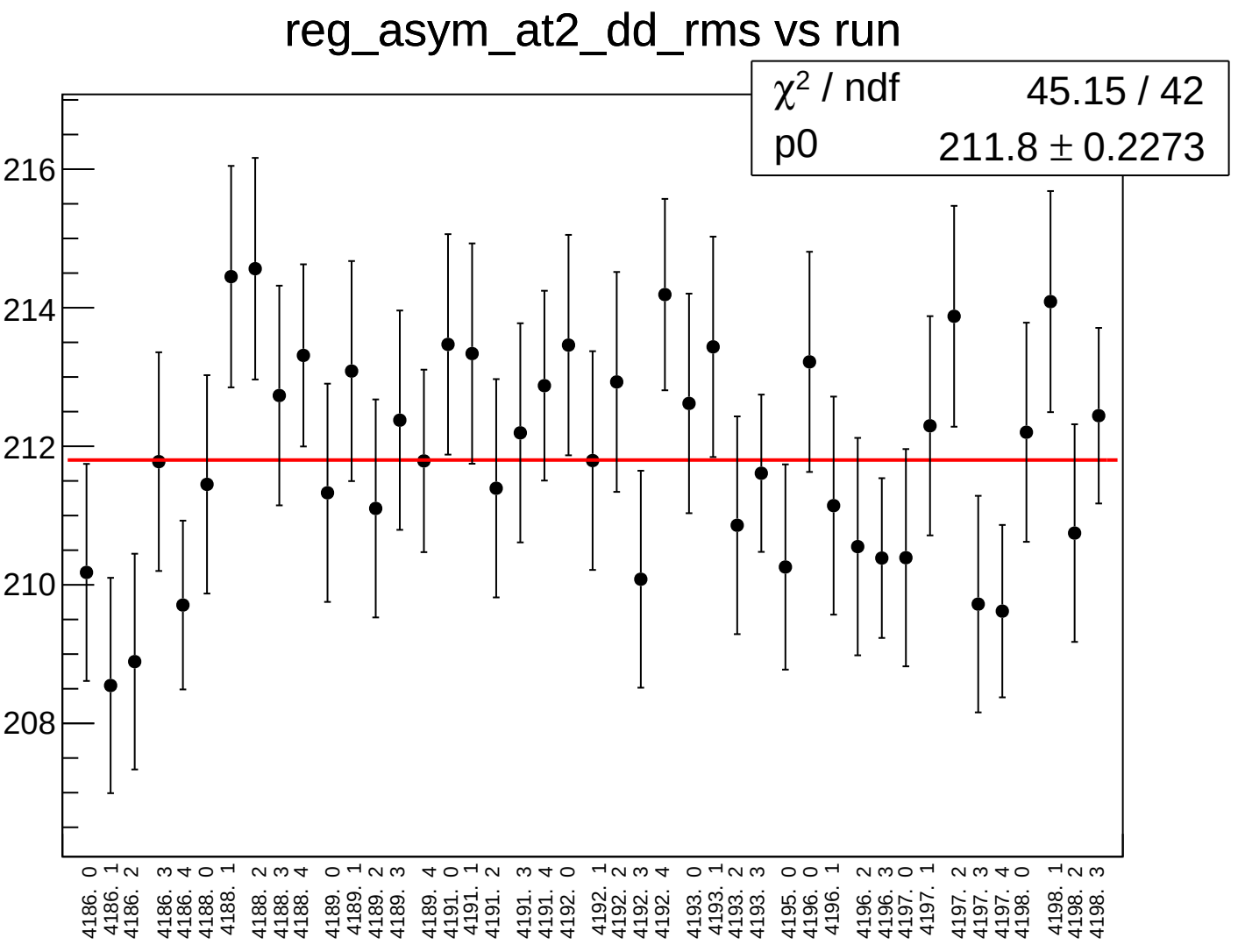

asym_at2_avg_mean vs run
χ² / ndf 29.41 / 42
p0 −3207 ± 2727
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 69.21
Std Dev 47.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

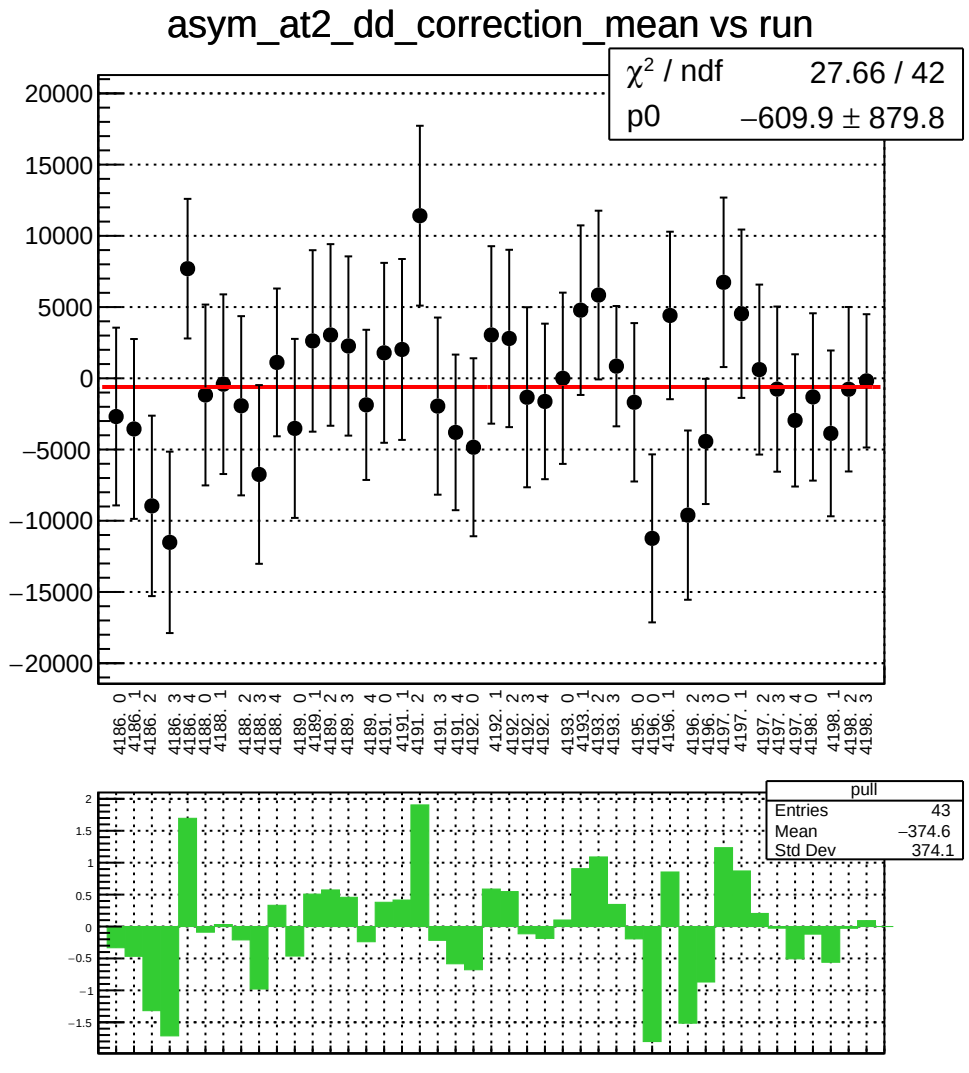

pull1D
Entries 43
Mean −0.01261
Std Dev 0.8269
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

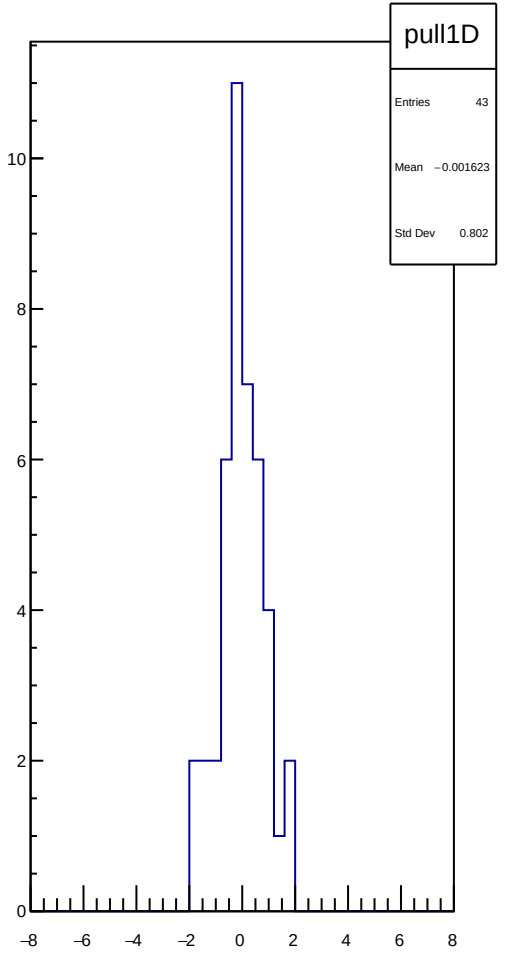

asym_at2_avg_rms vs run
χ² / ndf 623.2 / 42
p0 1797 ± 1.929
1900
1850
1800
1750
1700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

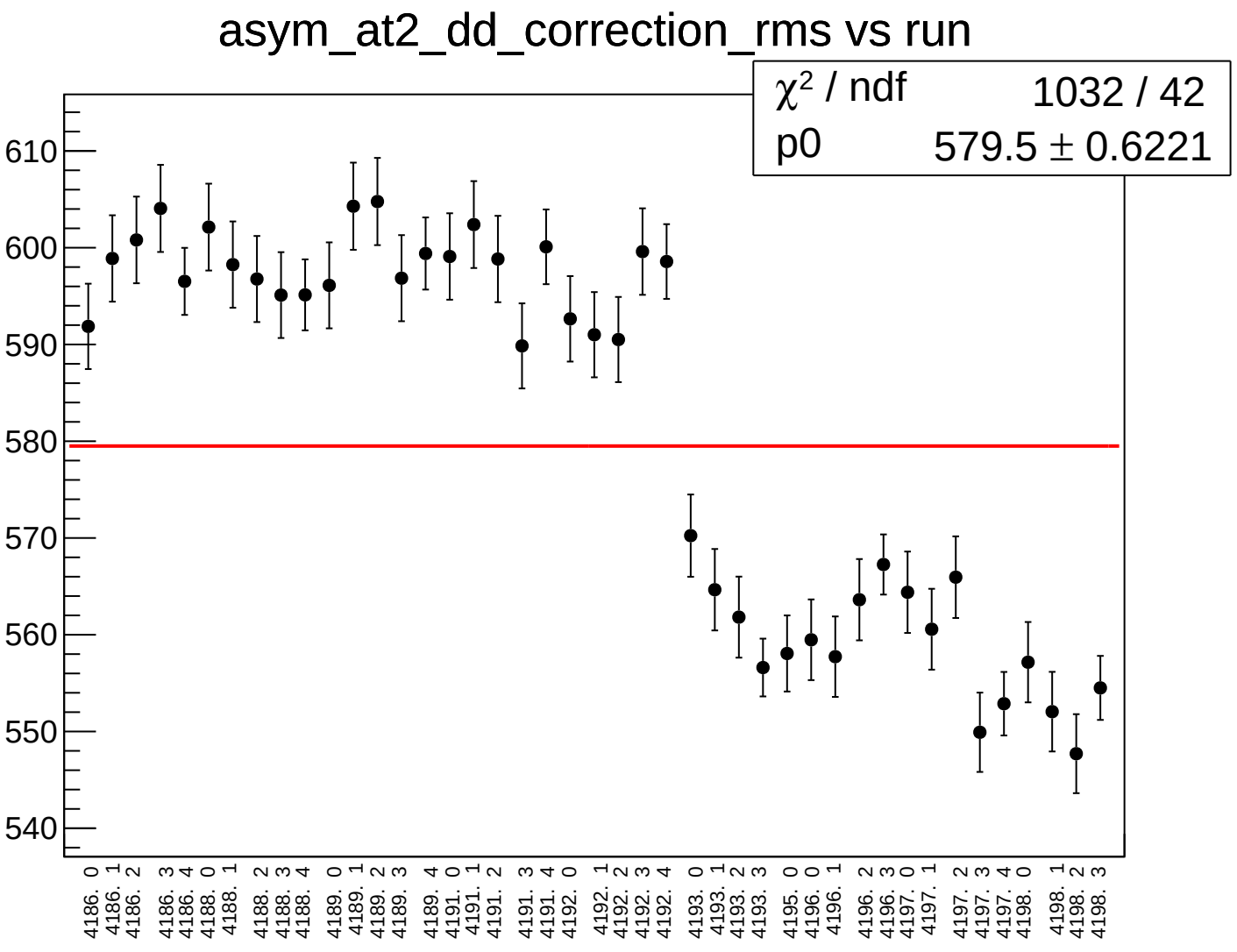

reg_asym_at2_dd_mean vs run
χ² / ndf 48.91 / 42
p0 392.6 ± 321.4
pull
Entries 43
Mean 144.4
Std Dev 128.1

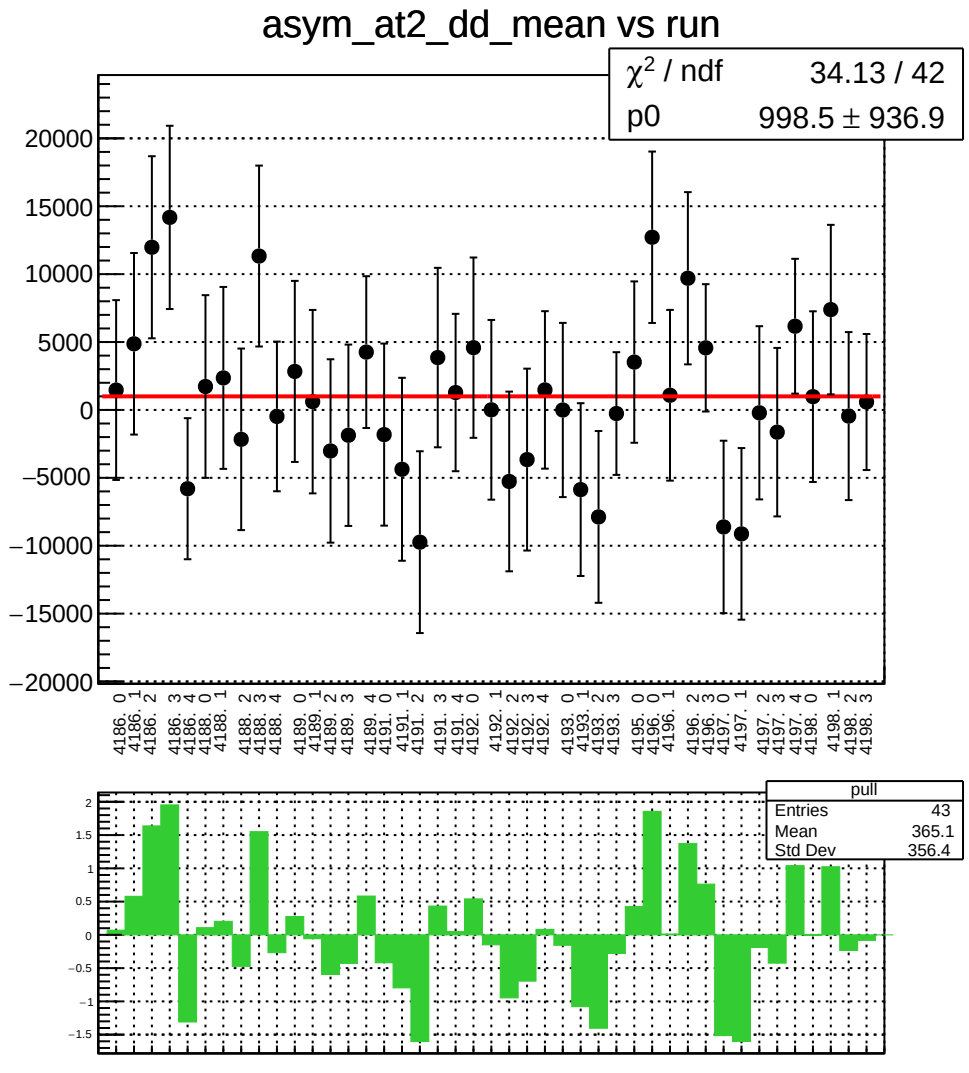

pull1D
Entries 43
Mean −0.01594
Std Dev 1.066

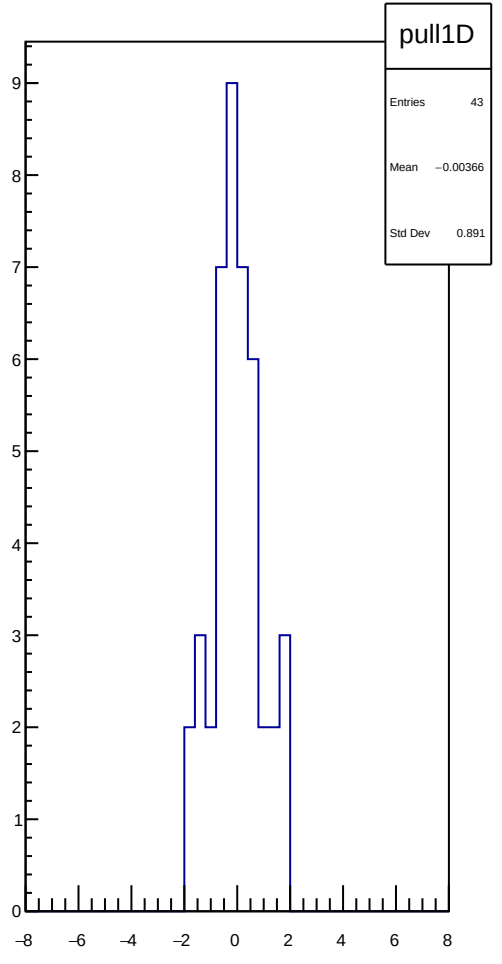

reg_asym_at2_dd_rms vs run
χ² / ndf 45.15 / 42
p0 211.8 ± 0.2273
216
214
212
210
208
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

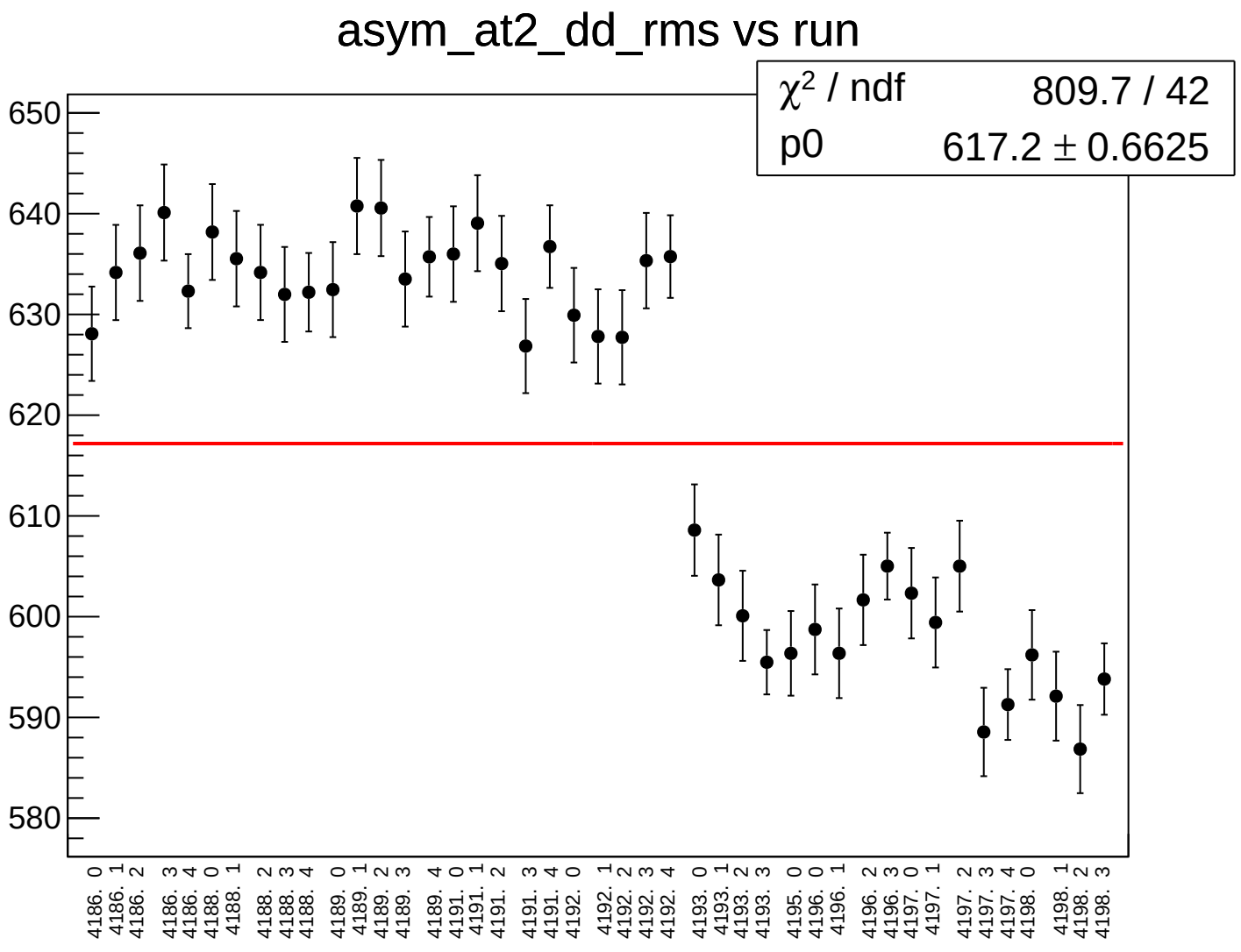

asym_at2_dd_correction_mean vs run
χ² / ndf 27.66 / 42
p0 −609.9 ± 879.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −374.6
Std Dev 374.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

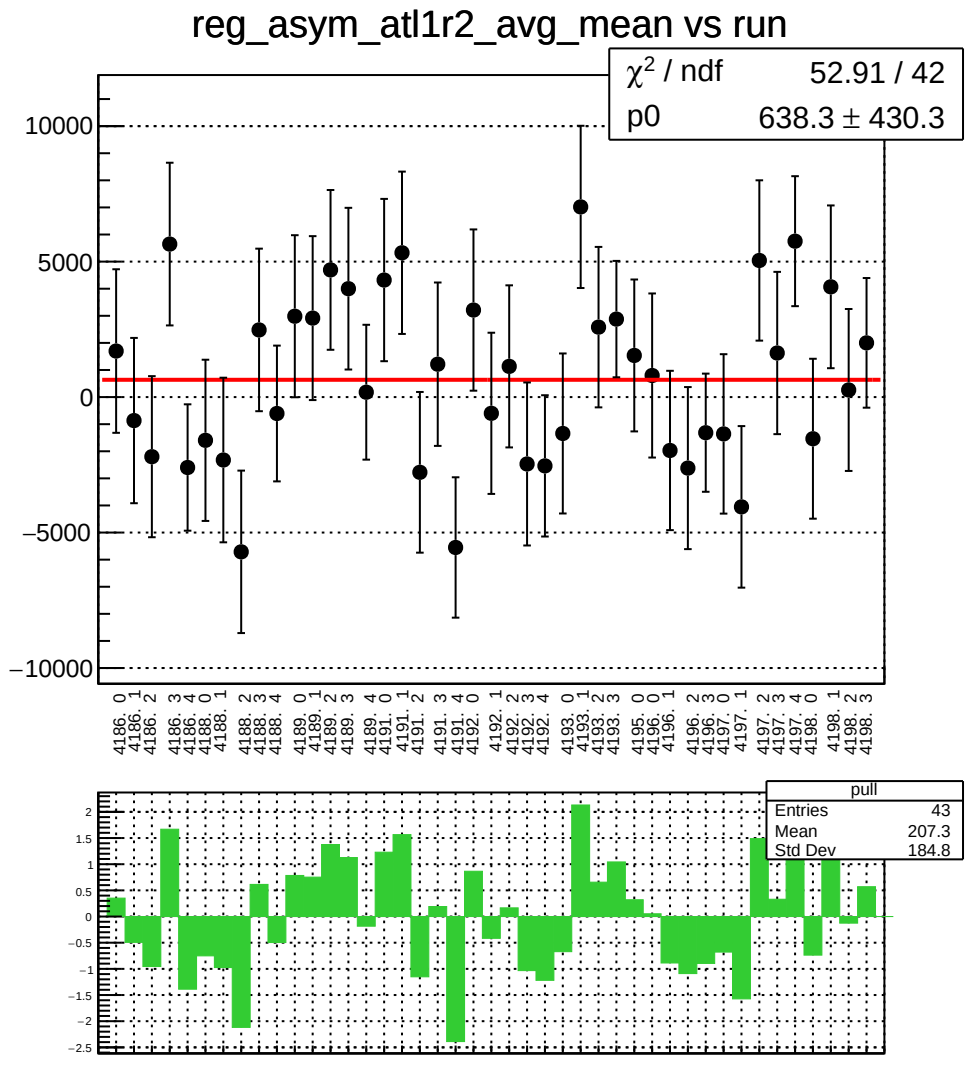

pull1D
Entries 43
Mean −0.001623
Std Dev 0.802
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

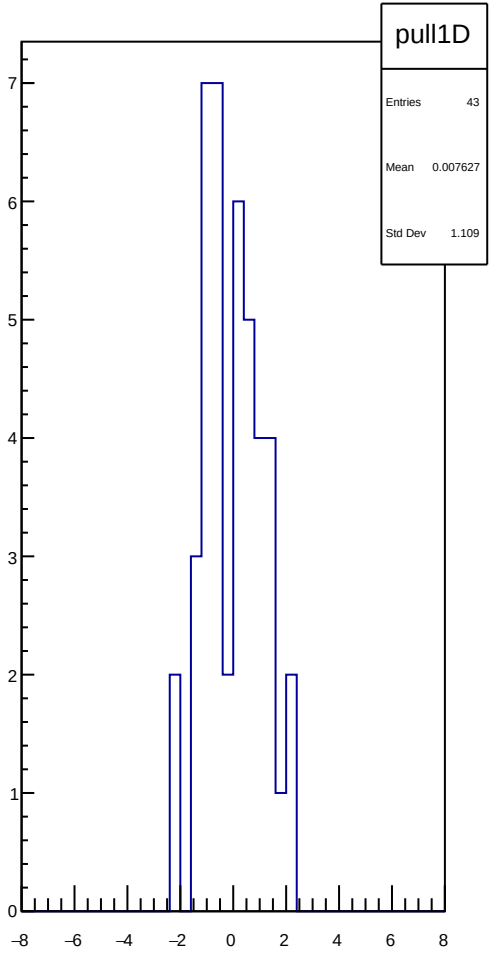

asym_at2_dd_correction_rms vs run
χ² / ndf 1032 / 42
p0 579.5 ± 0.6221
610
600
590
580
570
560
550
540
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

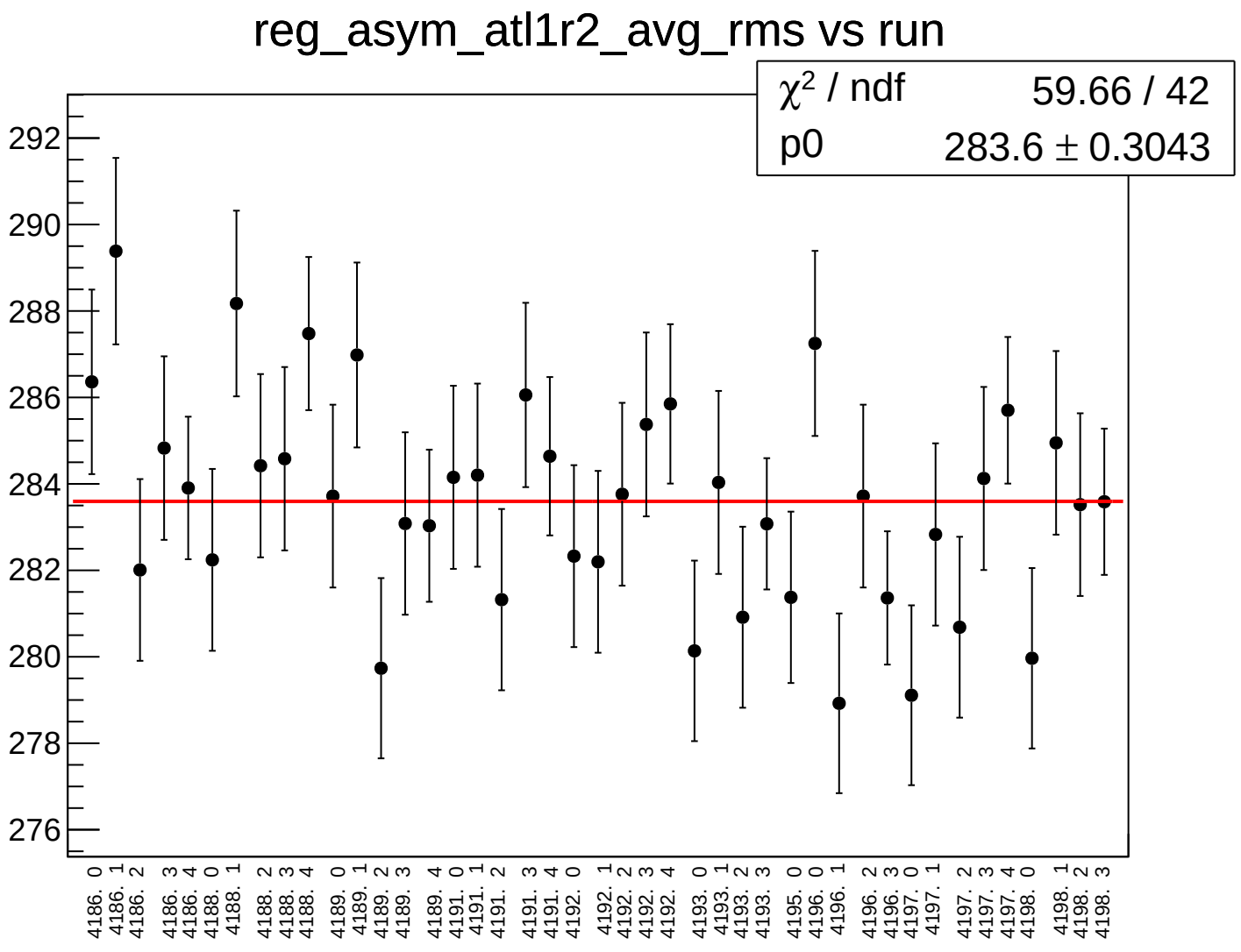

asym_at2_dd_mean vs run
χ^2 / ndf 34.13 / 42
p0 998.5 ± 936.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 365.1
Std Dev 356.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

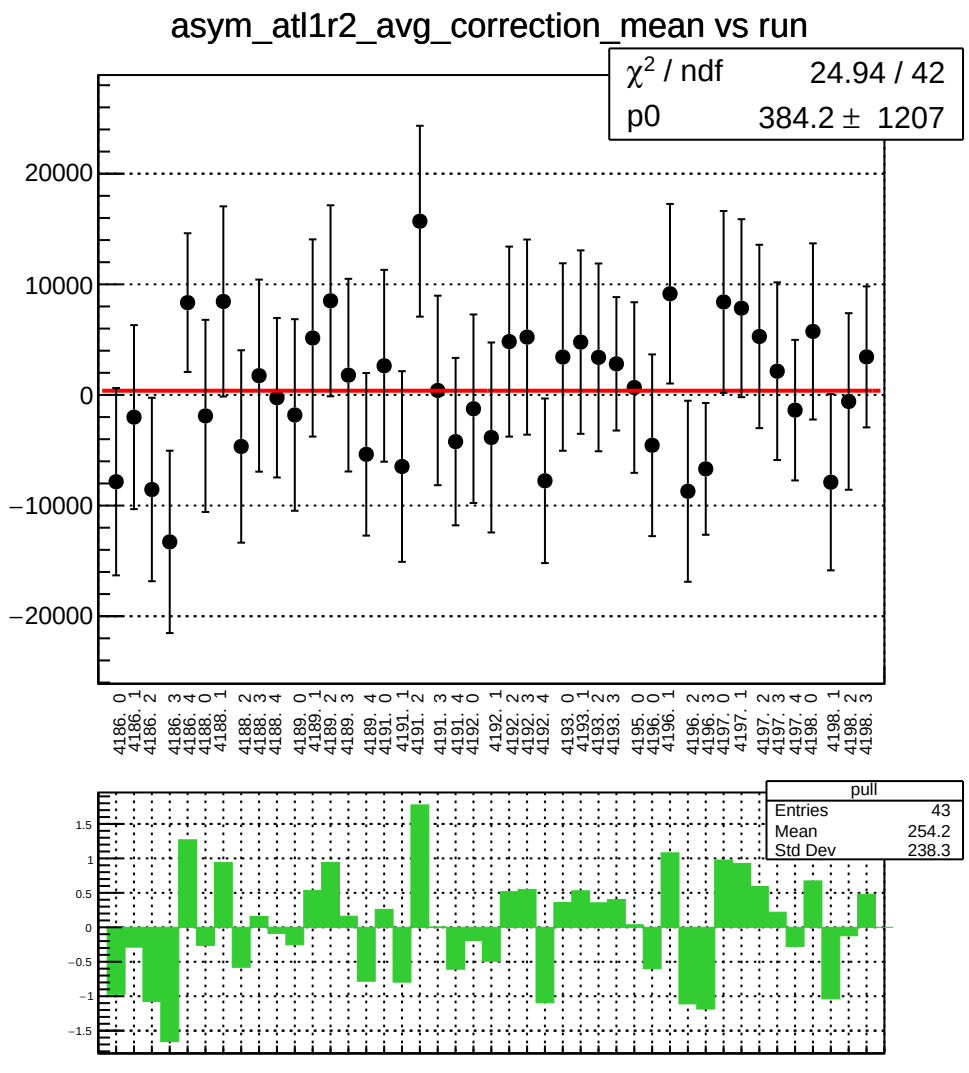

pull1D
Entries 43
Mean −0.00366
Std Dev 0.891
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

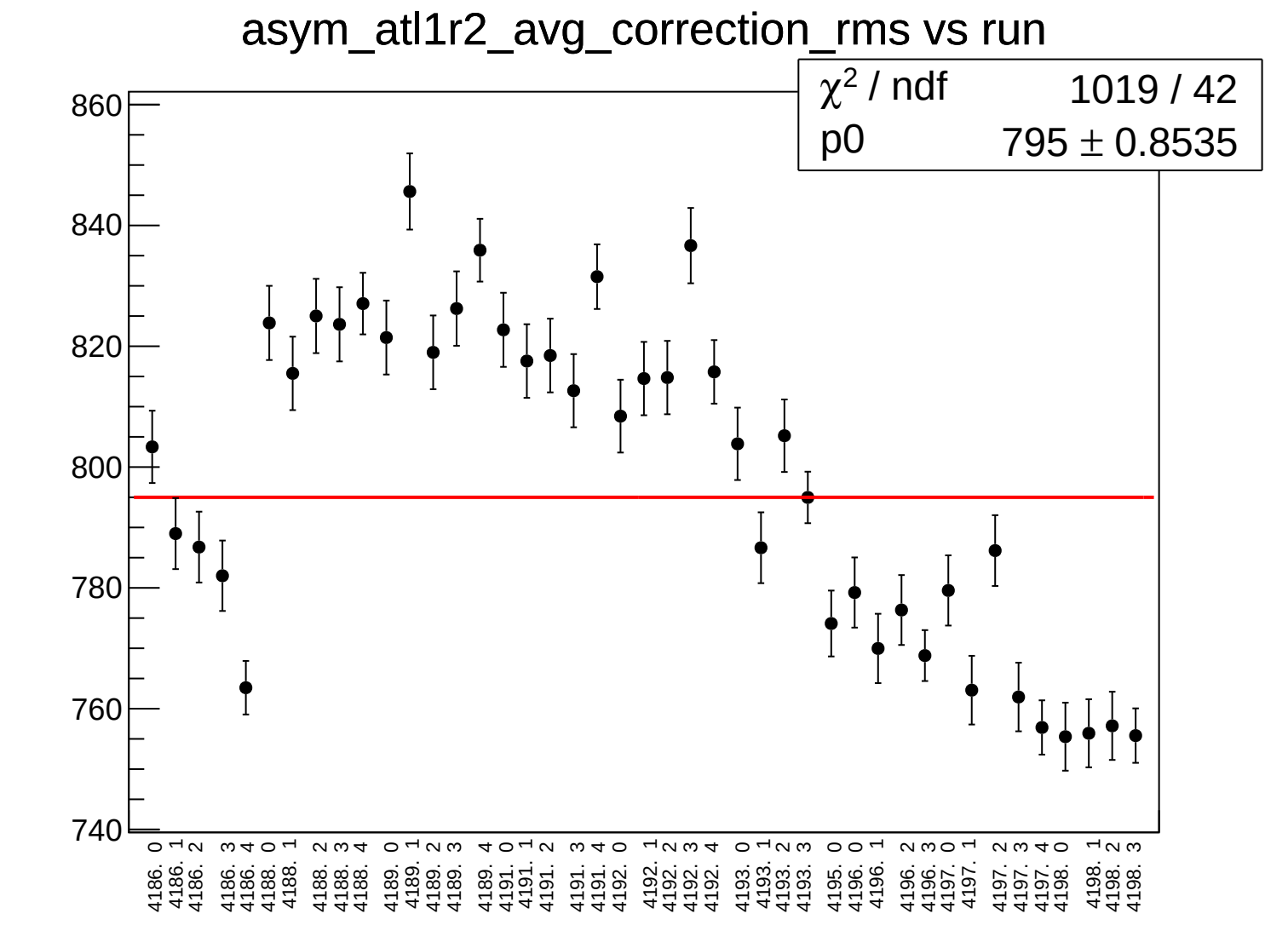

asym_at2_dd_rms vs run
χ² / ndf 809.7 / 42
p0 617.2 ± 0.6625
650
640
630
620
610
600
590
580
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

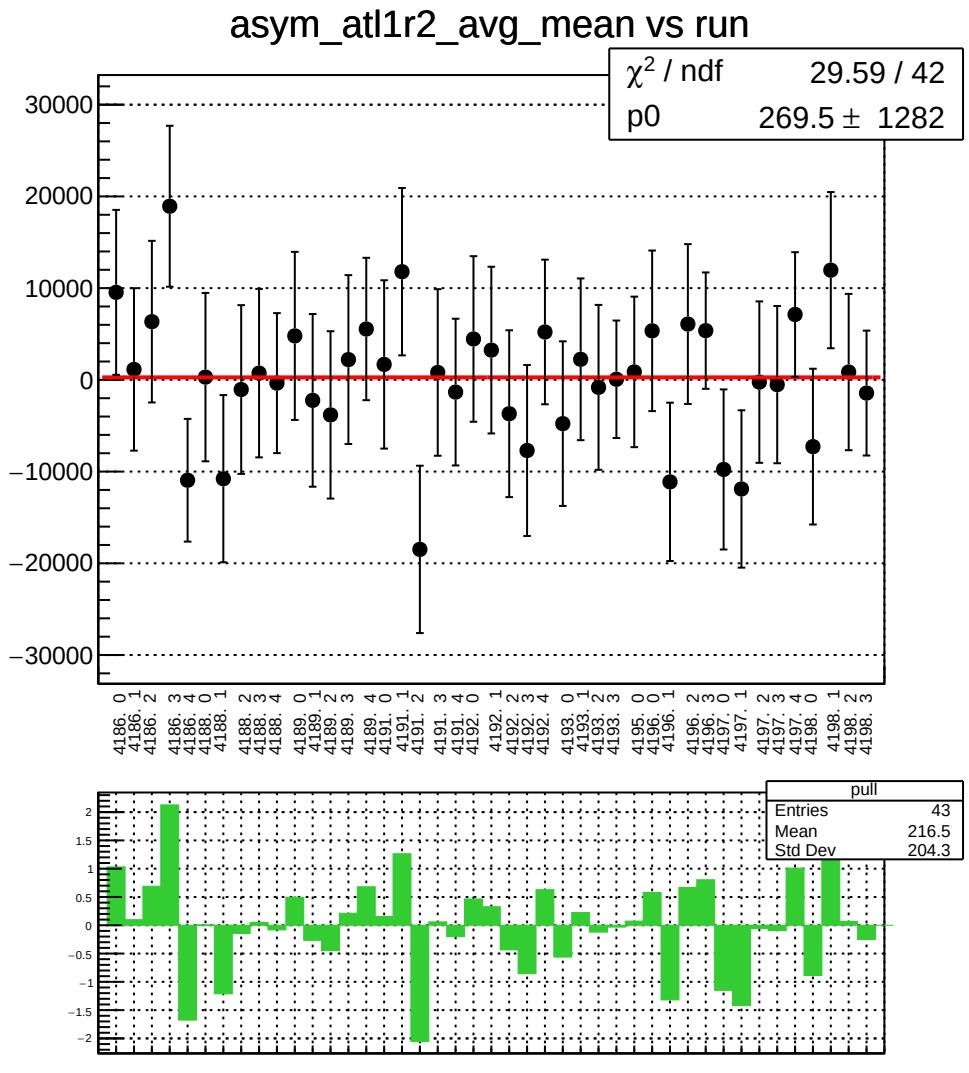

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 52.91 / 42
p0 638.3 ± 430.3
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 207.3
Std Dev 184.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

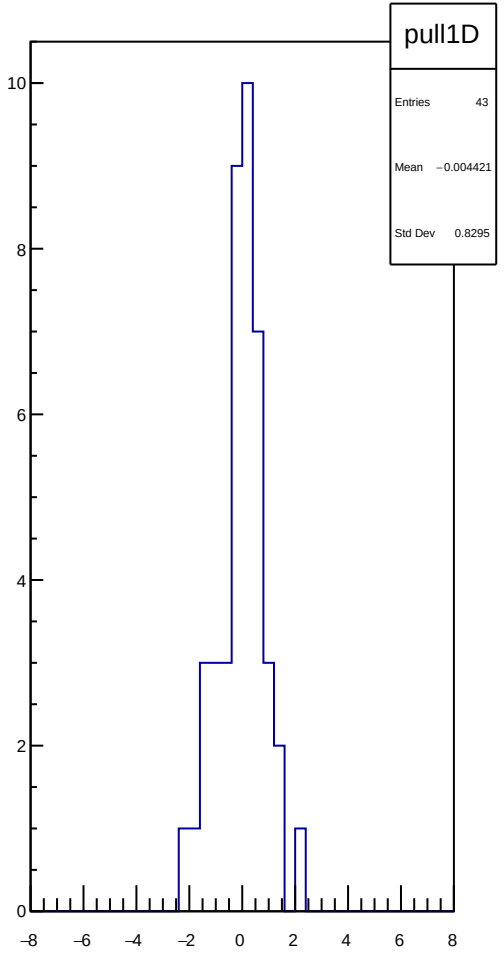

pull1D
Entries 43
Mean 0.007627
Std Dev 1.109
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

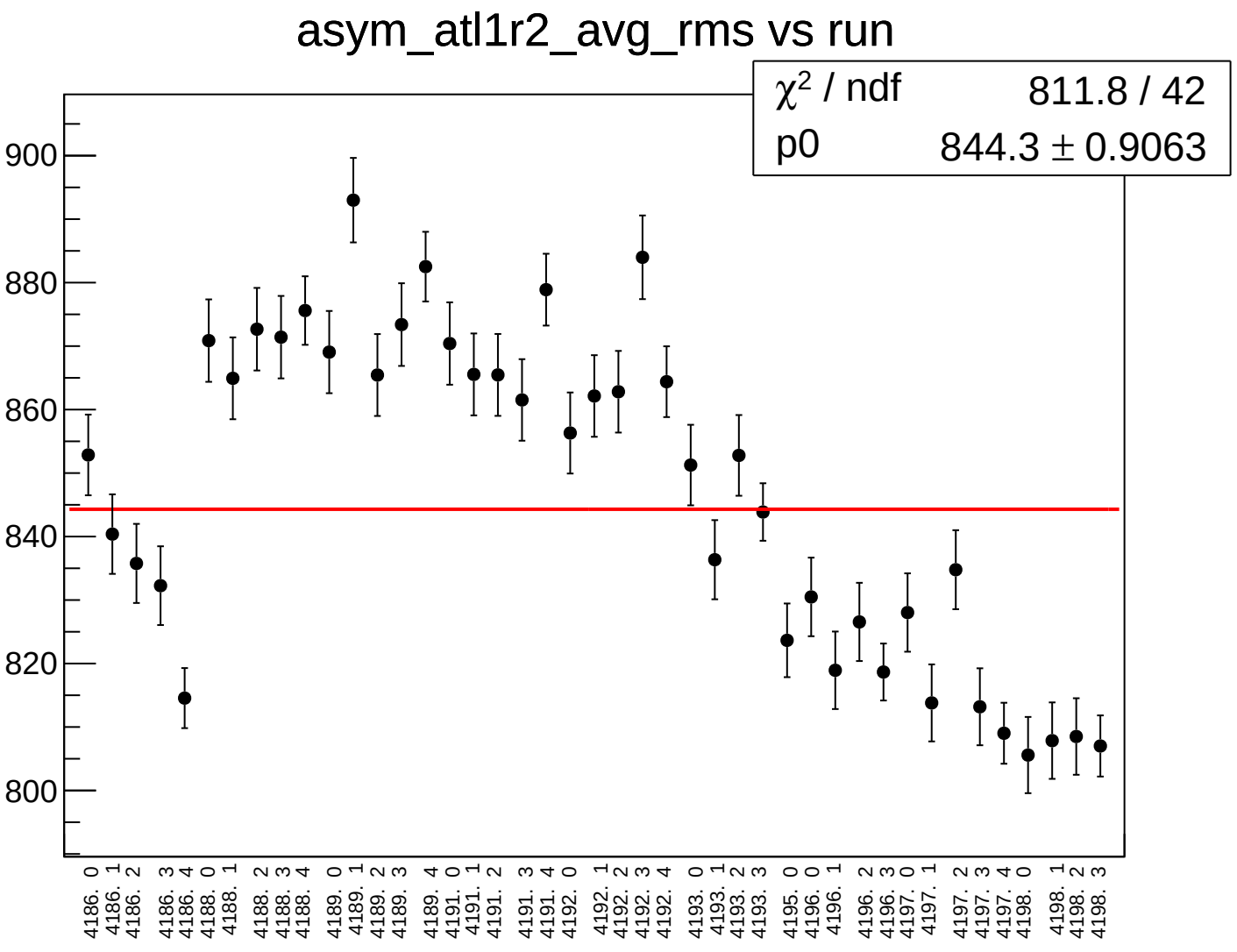

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 59.66 / 42
p0 283.6 ± 0.3043
292
290
288
286
284
282
280
278
276
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

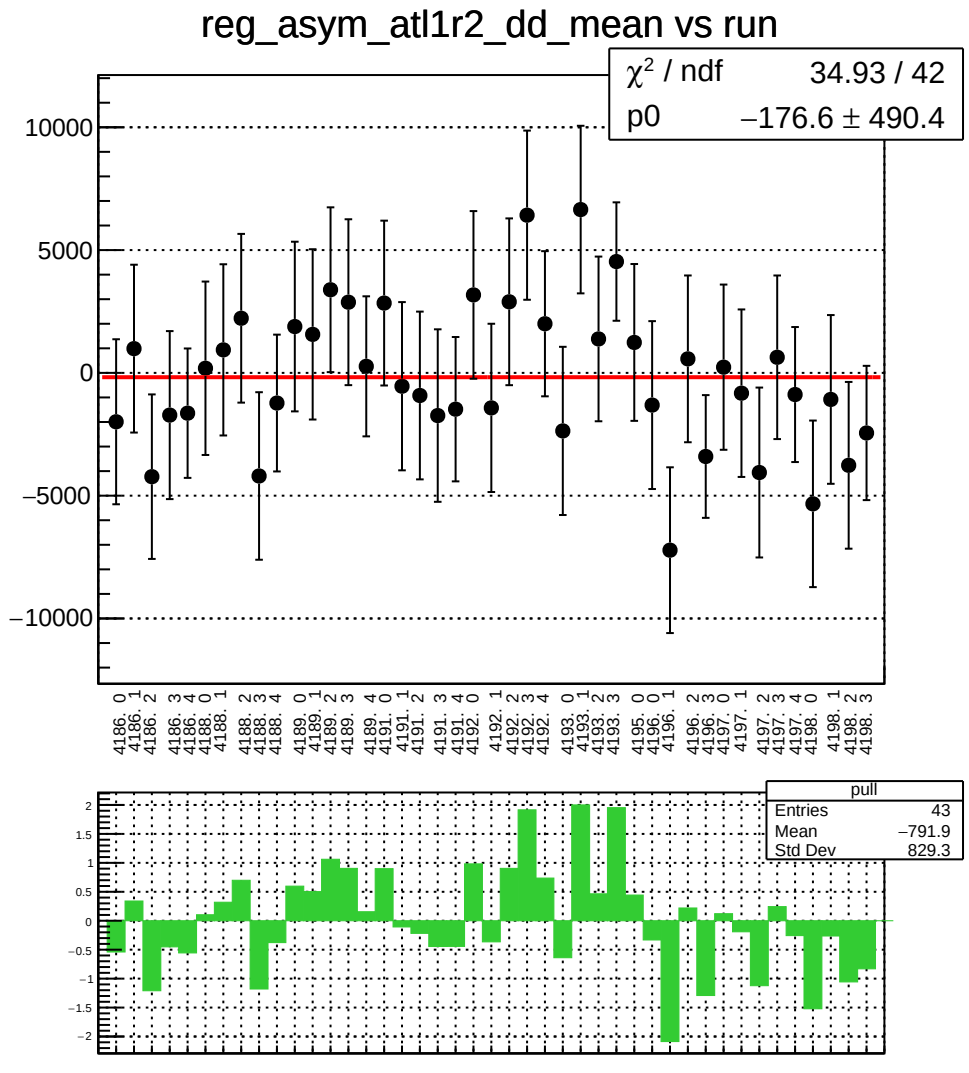

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 24.94 / 42
p0 384.2 ± 1207
20000
10000
0
−10000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 254.2
Std Dev 238.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006194
Std Dev 0.7616
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

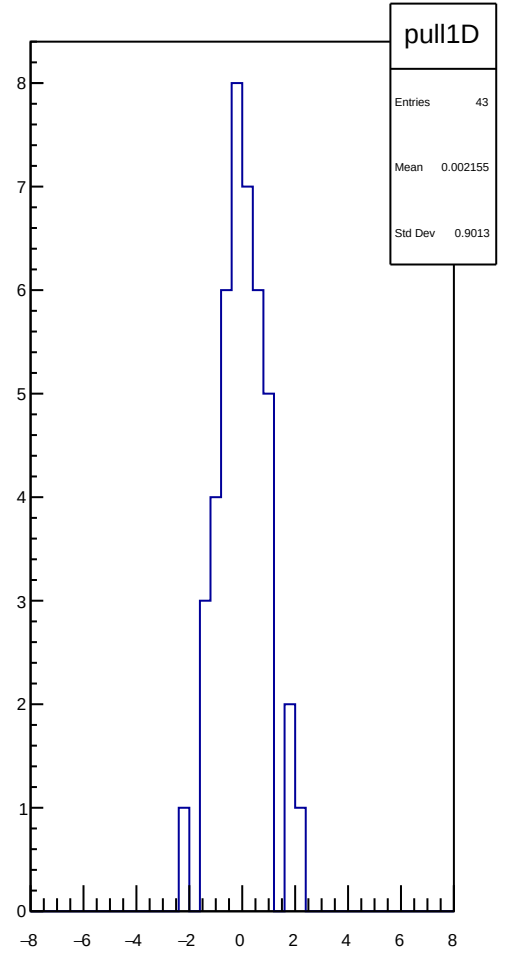

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1019 / 42
p0 795 ± 0.8535
860
840
820
800
780
760
740
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

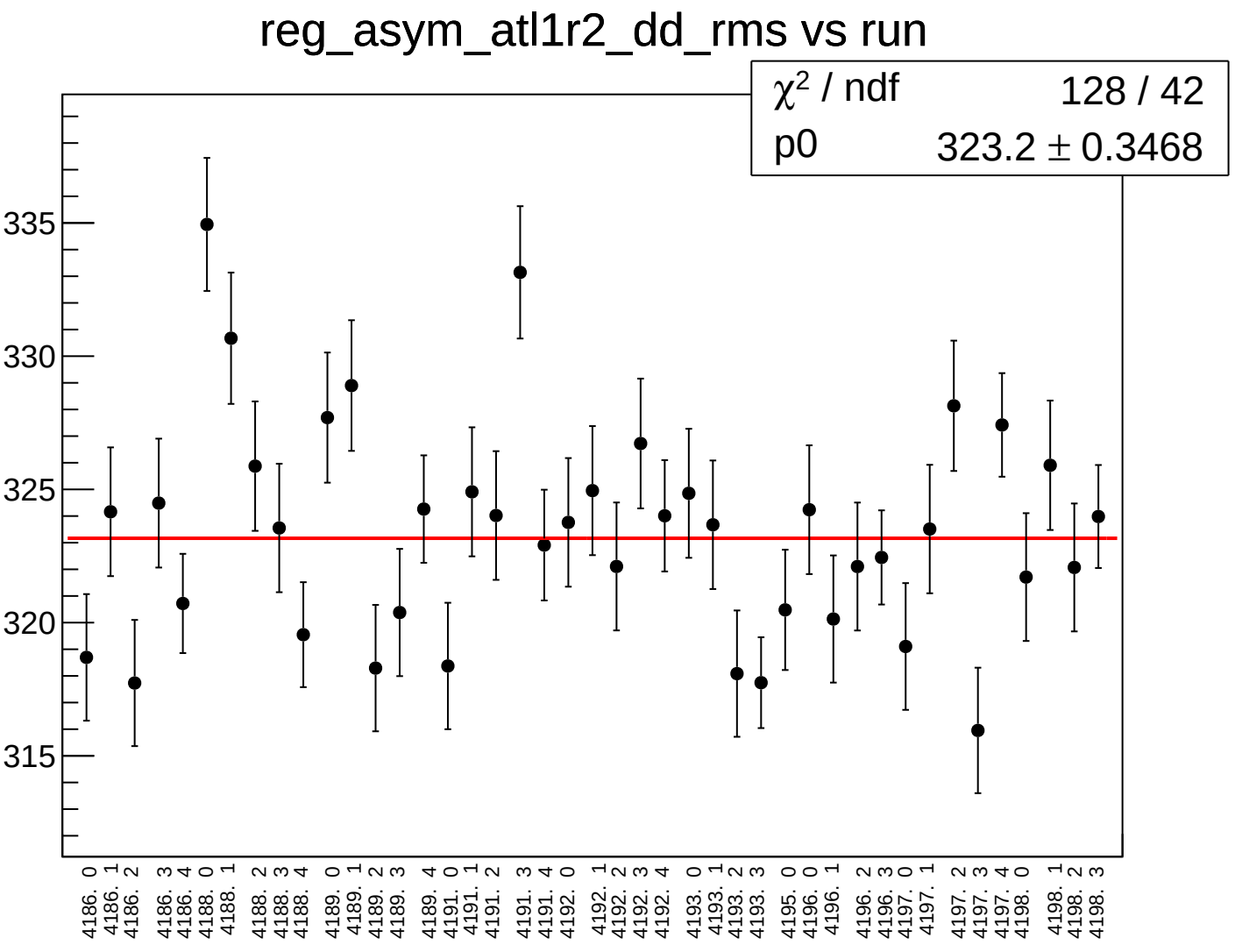

asym_atl1r2_avg_mean vs run
χ² / ndf 29.59 / 42
p0 269.5 ± 1282
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 216.5
Std Dev 204.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

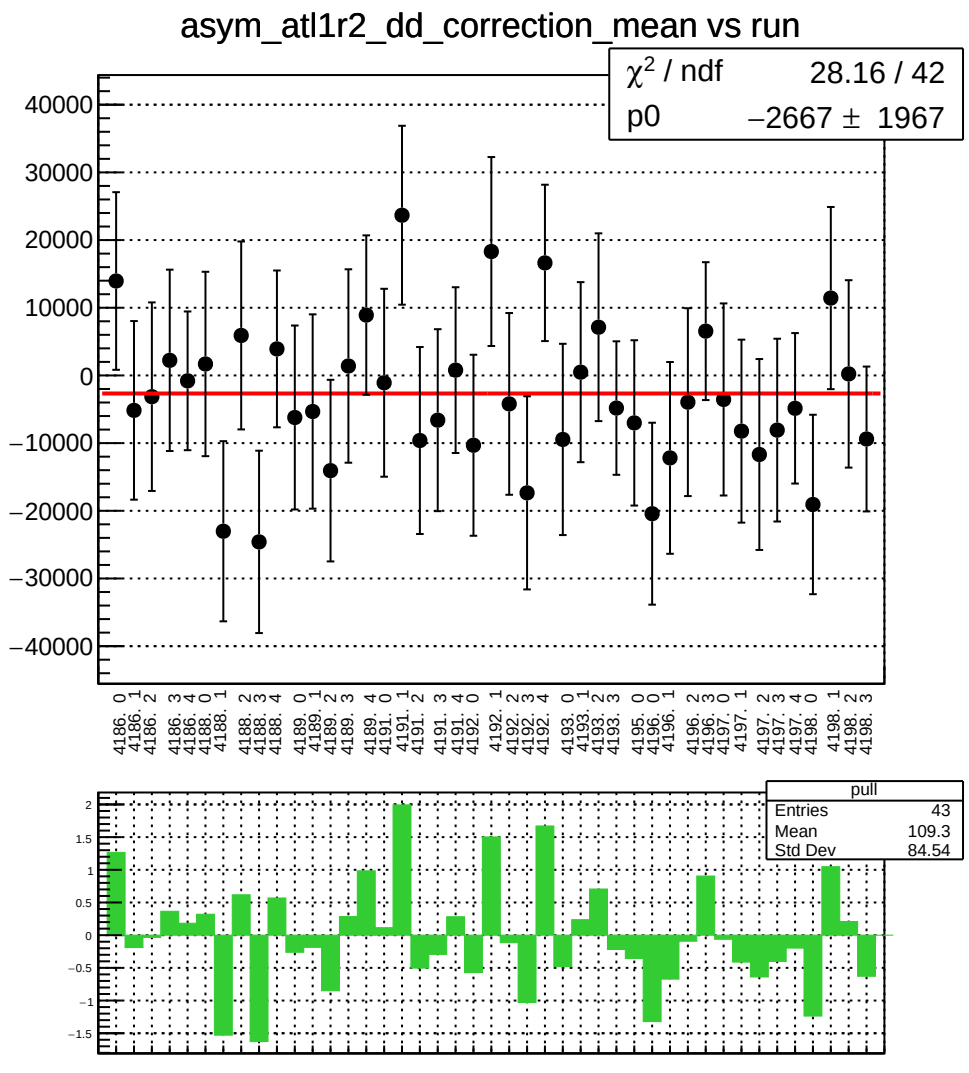

pull1D
Entries 43
Mean −0.004421
Std Dev 0.8295
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

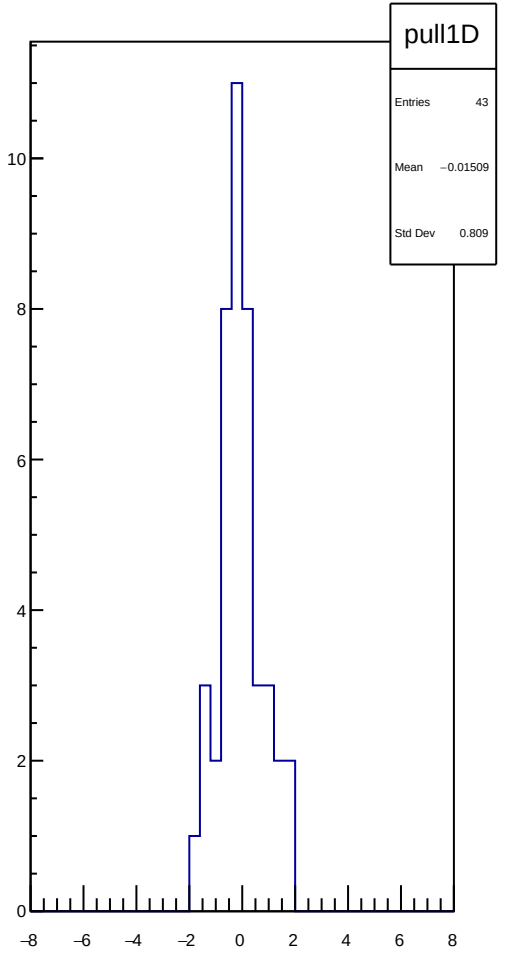

asym_atl1r2_avg_rms vs run
χ^2 / ndf 811.8 / 42
p0 844.3 ± 0.9063
900
880
860
840
820
800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

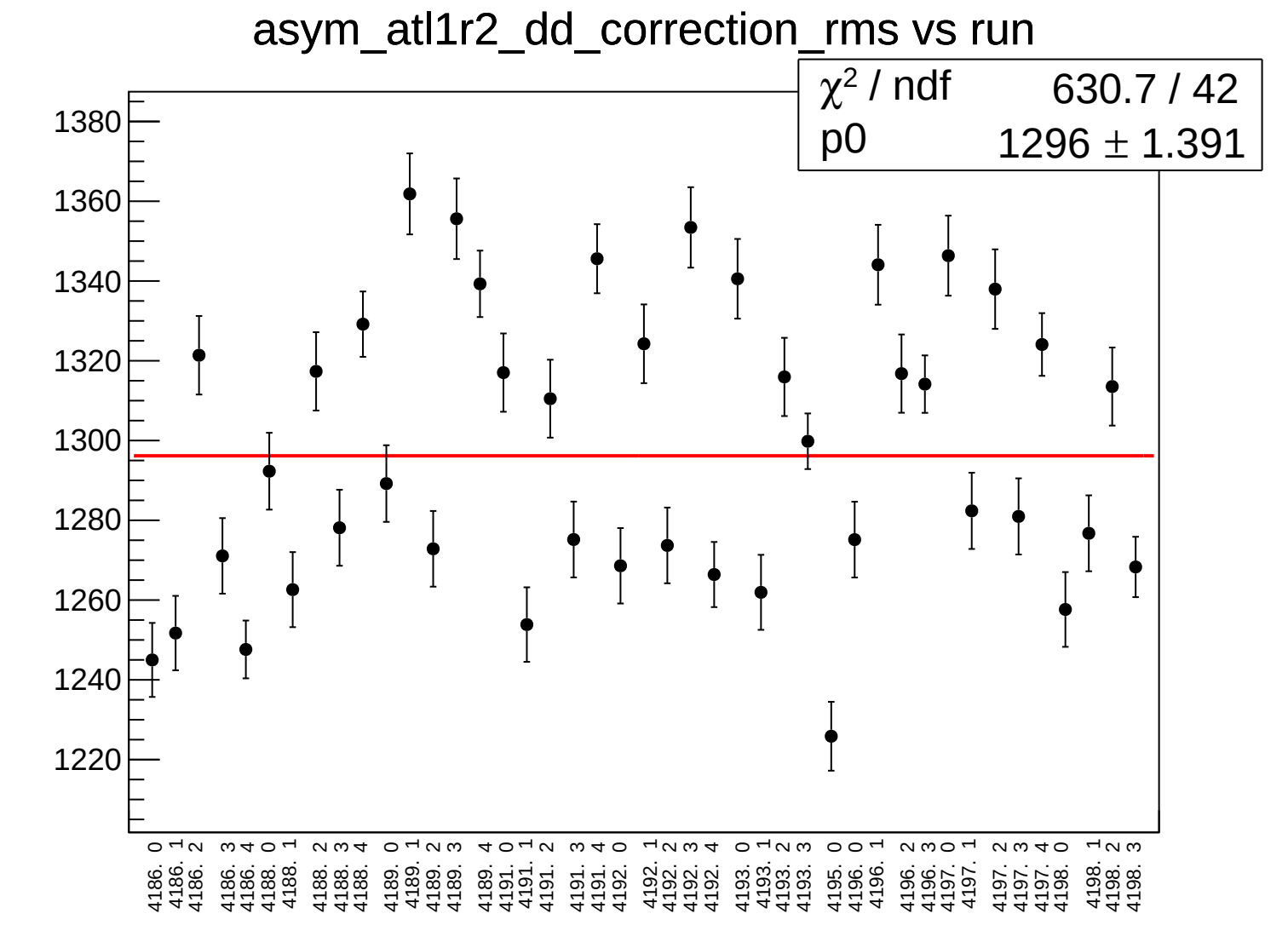

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 34.93 / 42
p0 −176.6 ± 490.4
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −791.9
Std Dev 829.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

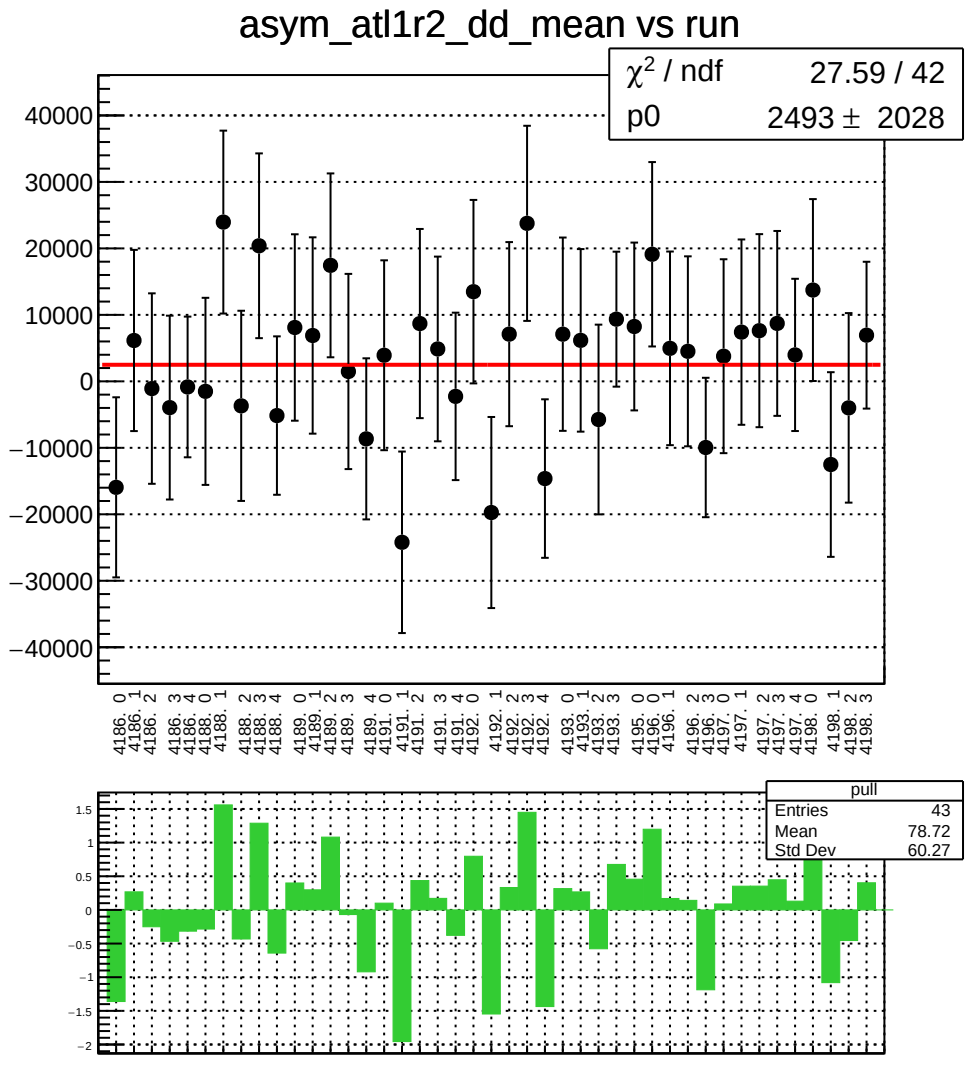

pull1D
Entries 43
Mean 0.002155
Std Dev 0.9013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

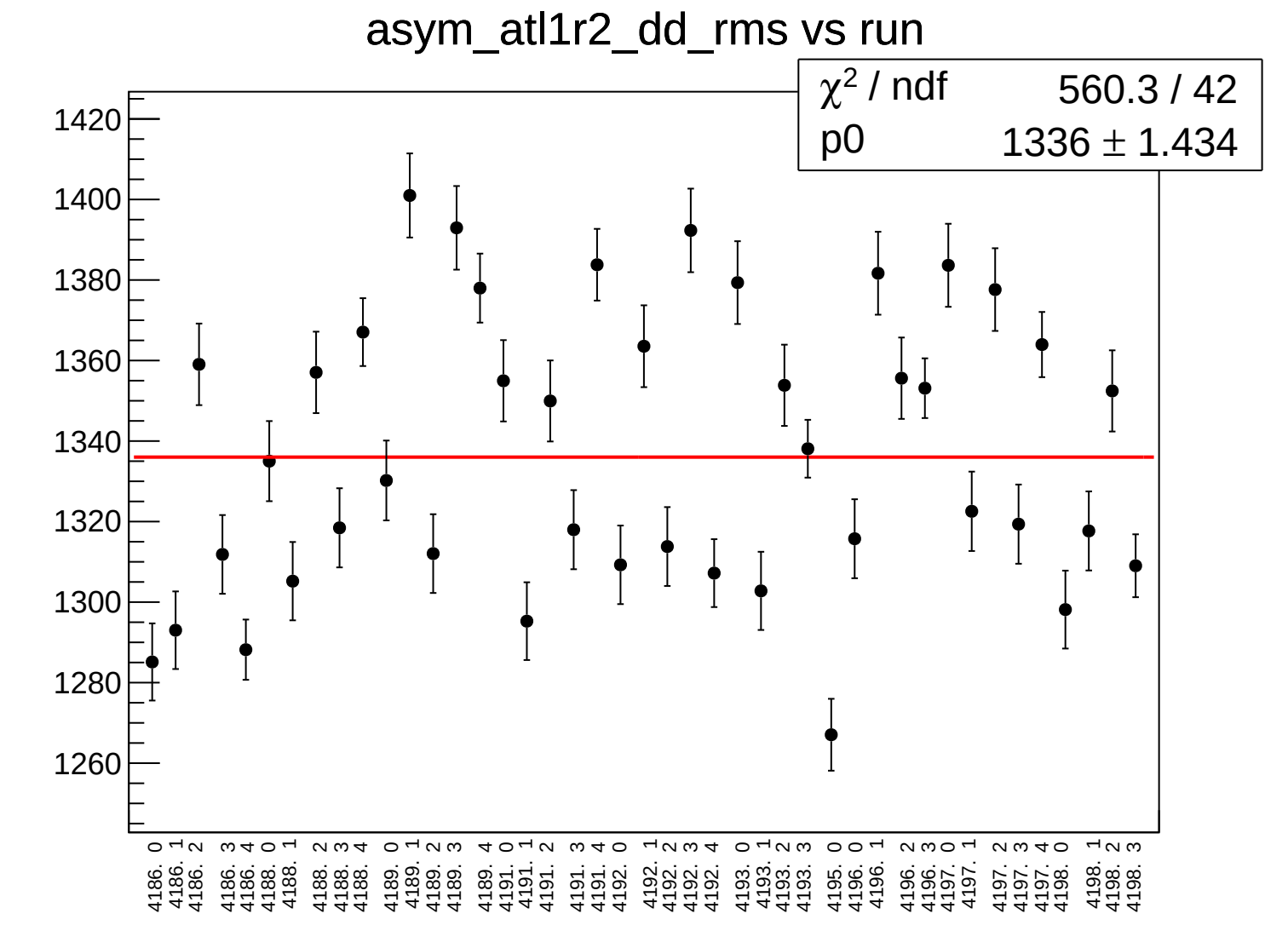

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 128 / 42
p0 323.2 ± 0.3468
335
330
325
320
315
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

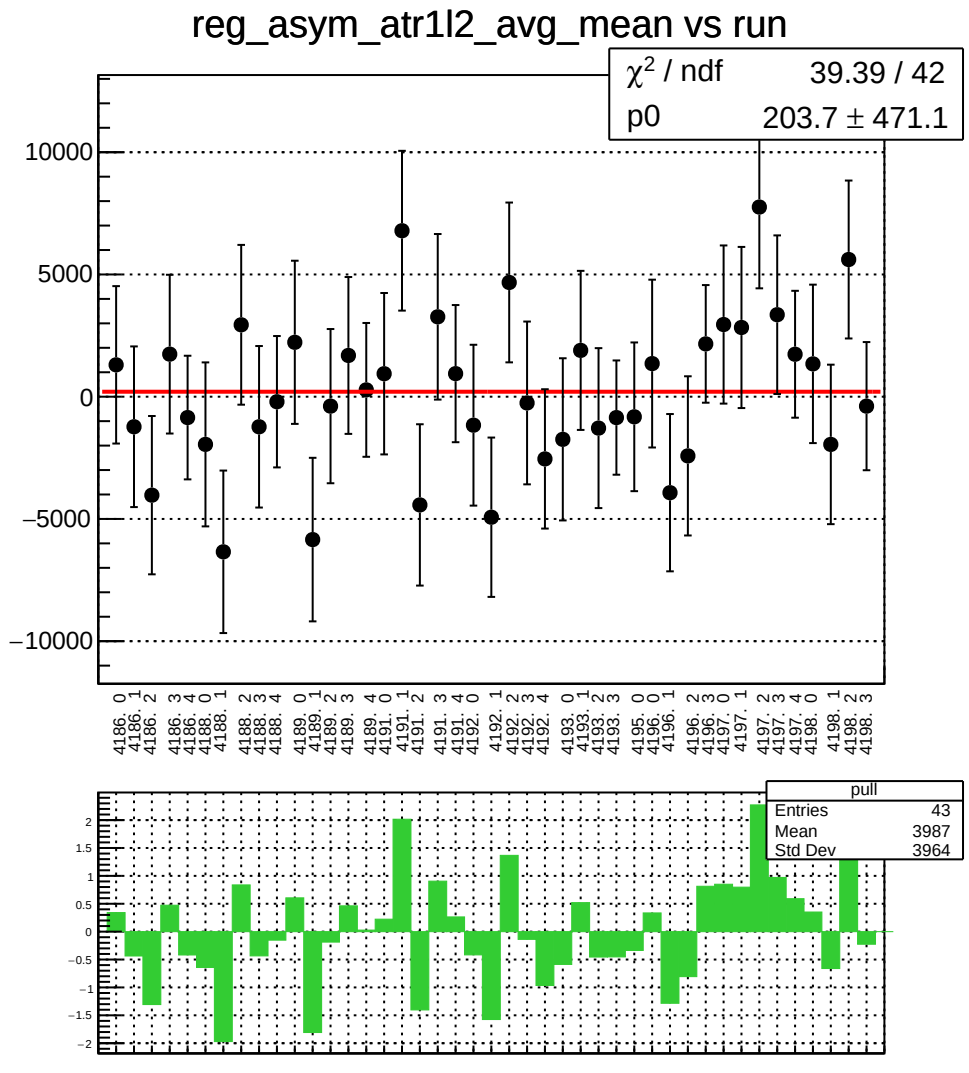

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 28.16 / 42
p0 −2667 ± 1967
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 109.3
Std Dev 84.54
2
1.5
1
0.5
0
−0.5
−1
−1.5

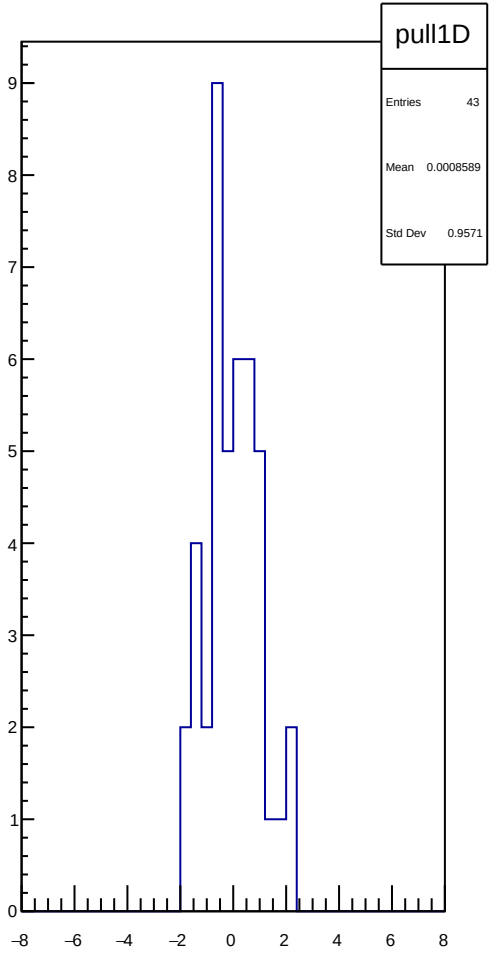

pull1D
Entries 43
Mean −0.01509
Std Dev 0.809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

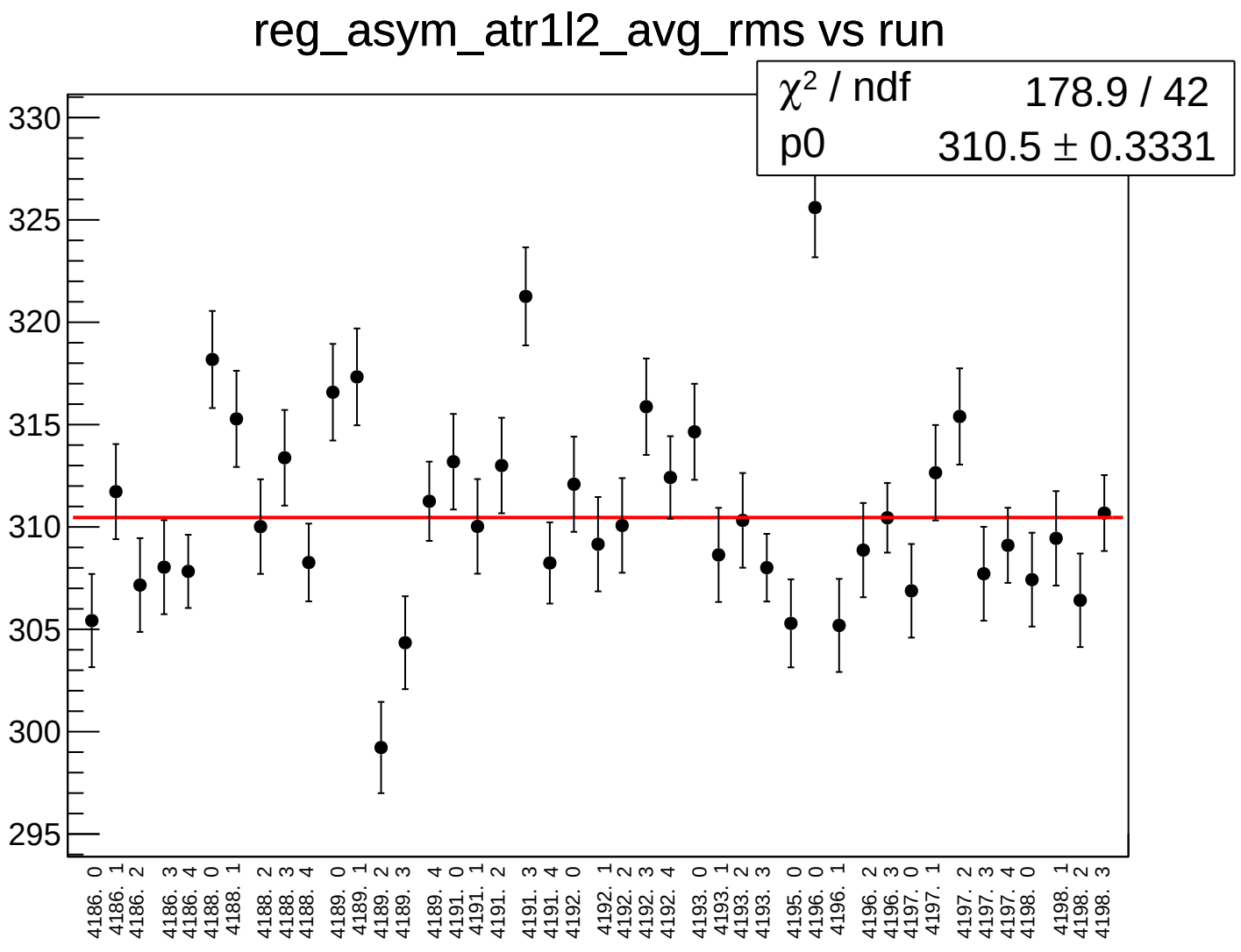

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 630.7 / 42
p0 1296 ± 1.391
1380
1360
1340
1320
1300
1280
1260
1240
1220
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

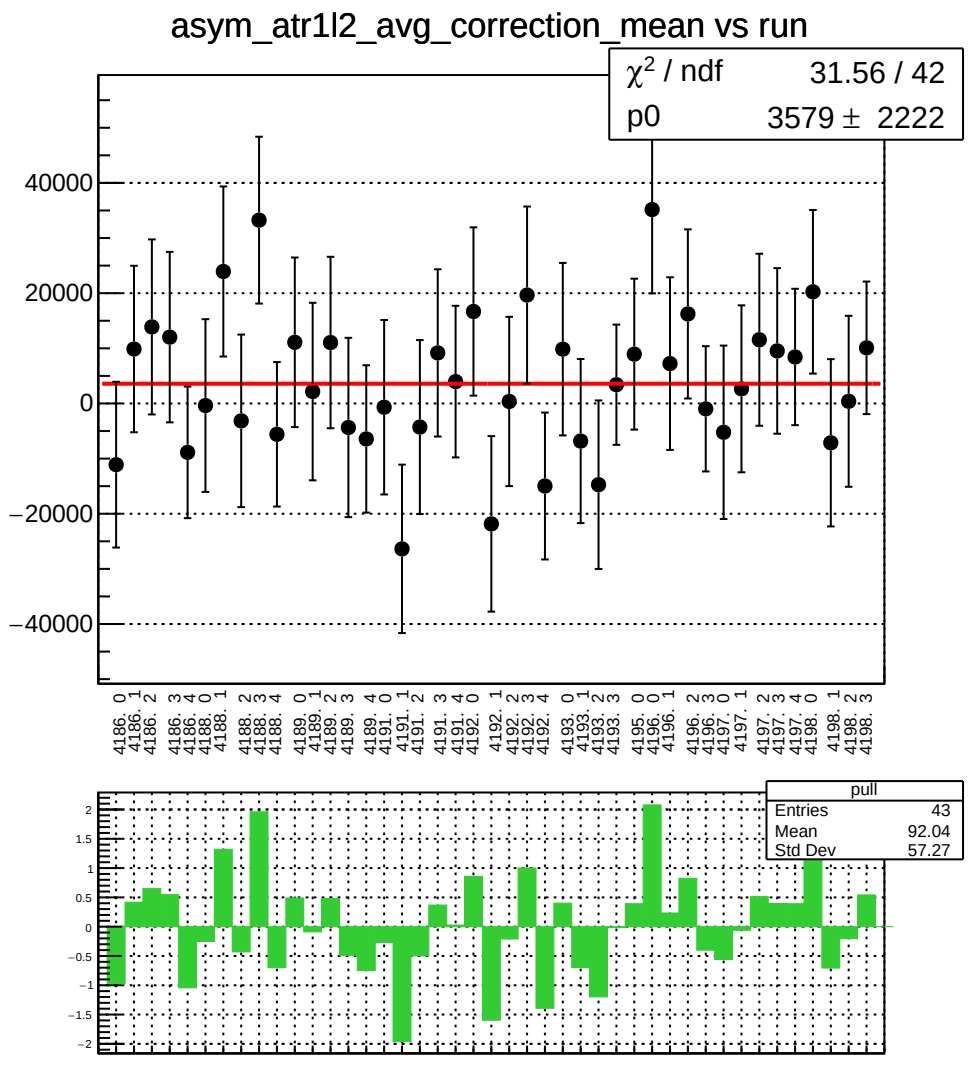

asym_atl1r2_dd_mean vs run
χ² / ndf 27.59 / 42
p0 2493 ± 2028
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 78.72
Std Dev 60.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01513
Std Dev 0.8009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

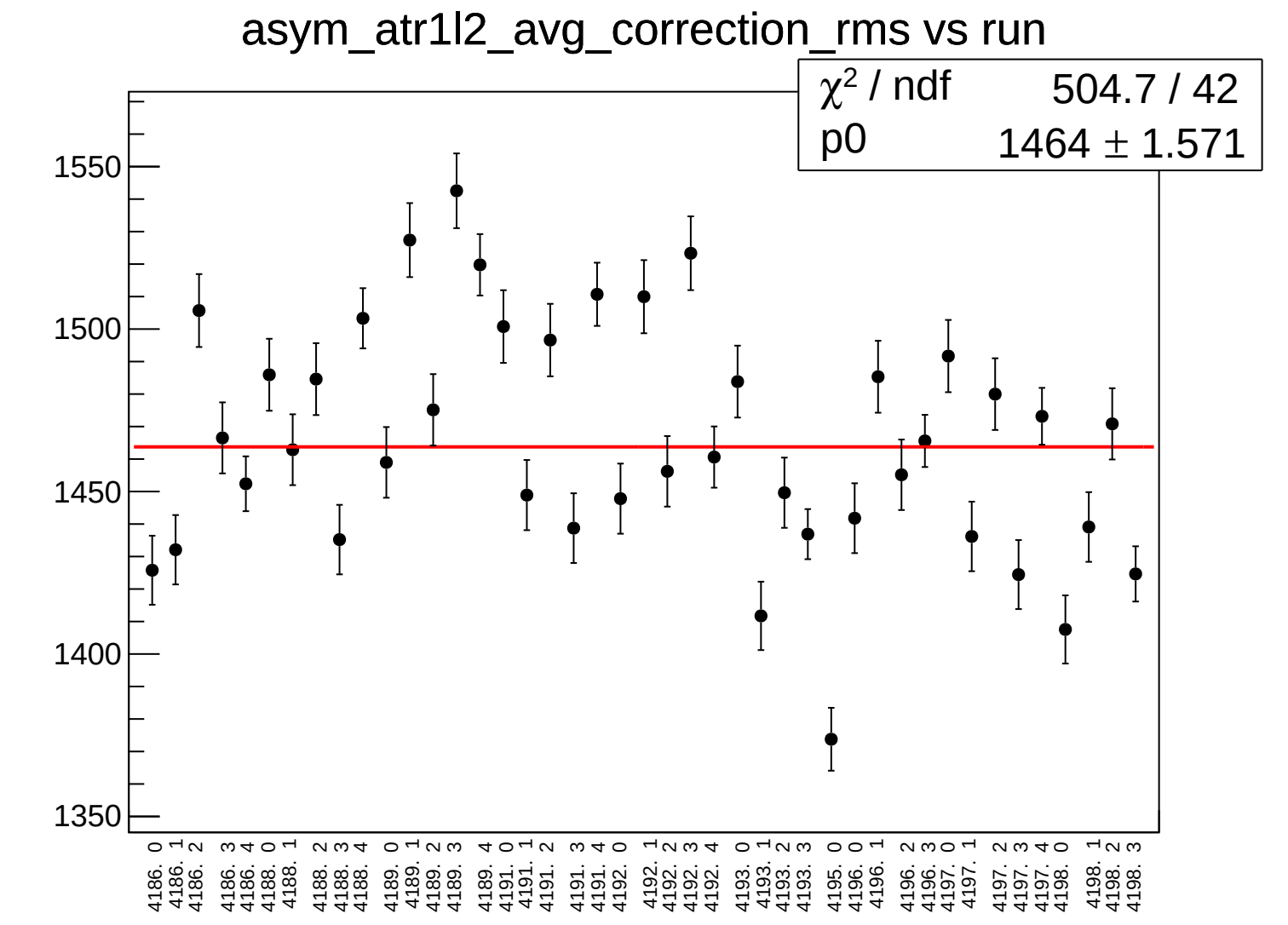

asym_atl1r2_dd_rms vs run
χ² / ndf 560.3 / 42
p0 1336 ± 1.434
1420
1400
1380
1360
1340
1320
1300
1280
1260
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

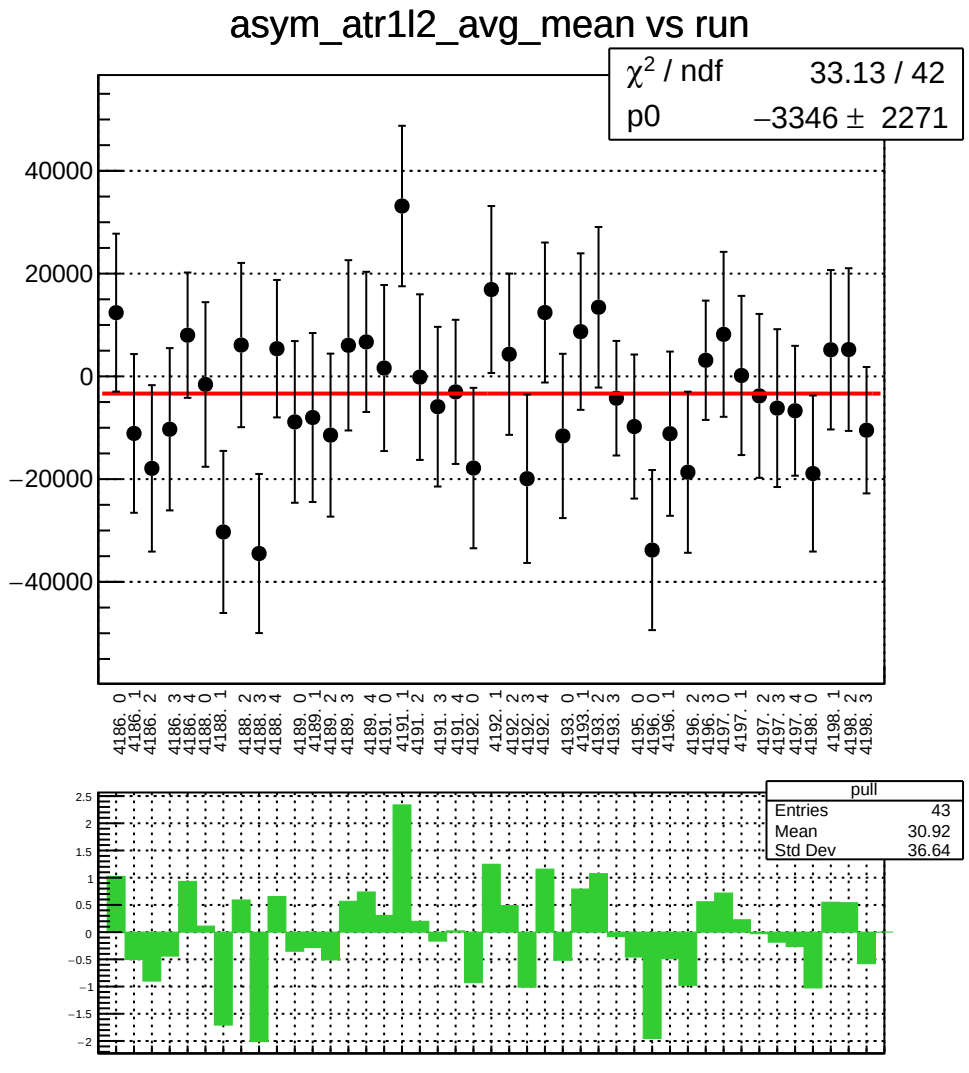

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 39.39 / 42
p0 203.7 ± 471.1
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 3987
Std Dev 3964
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

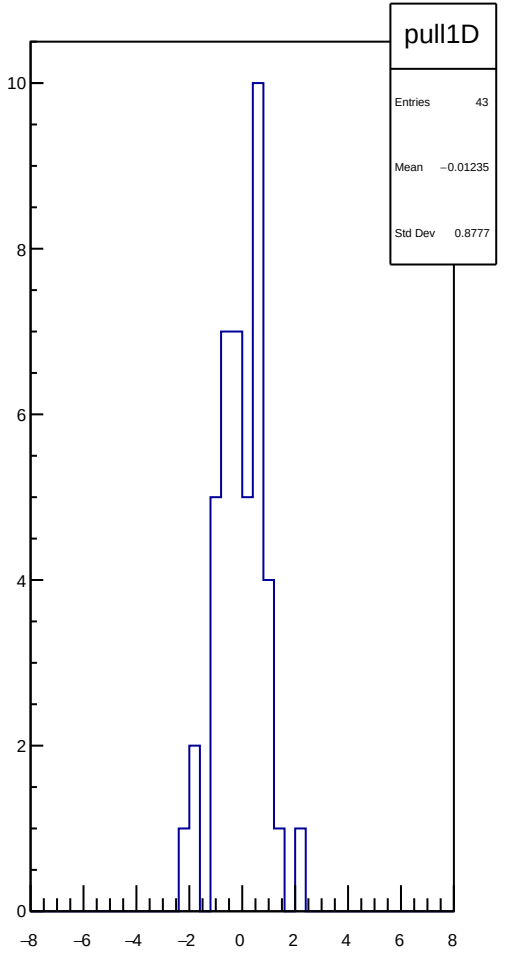

pull1D
Entries 43
Mean 0.0008589
Std Dev 0.9571
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

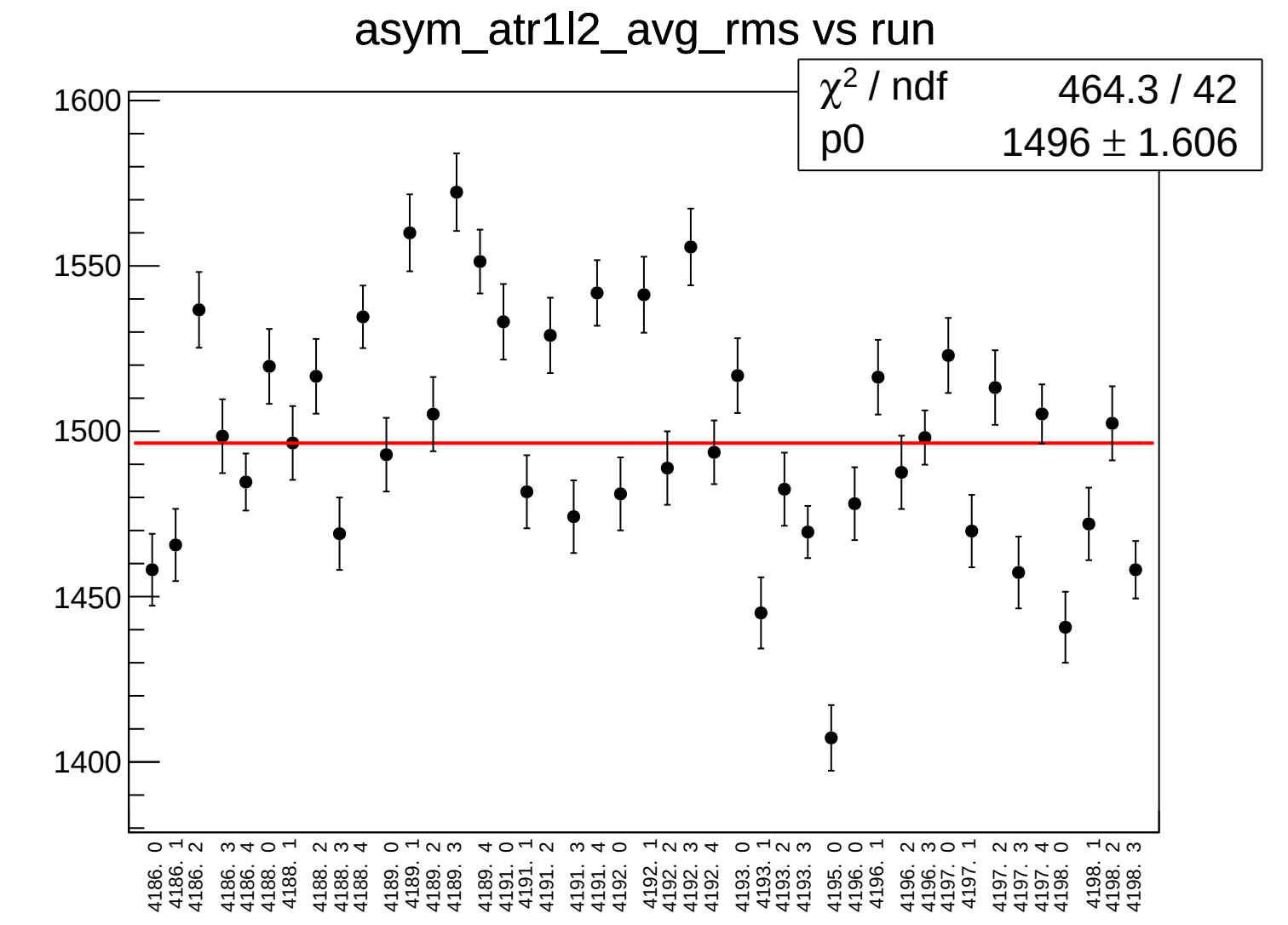

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 178.9 / 42
p0 310.5 ± 0.3331
330
325
320
315
310
305
300
295
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

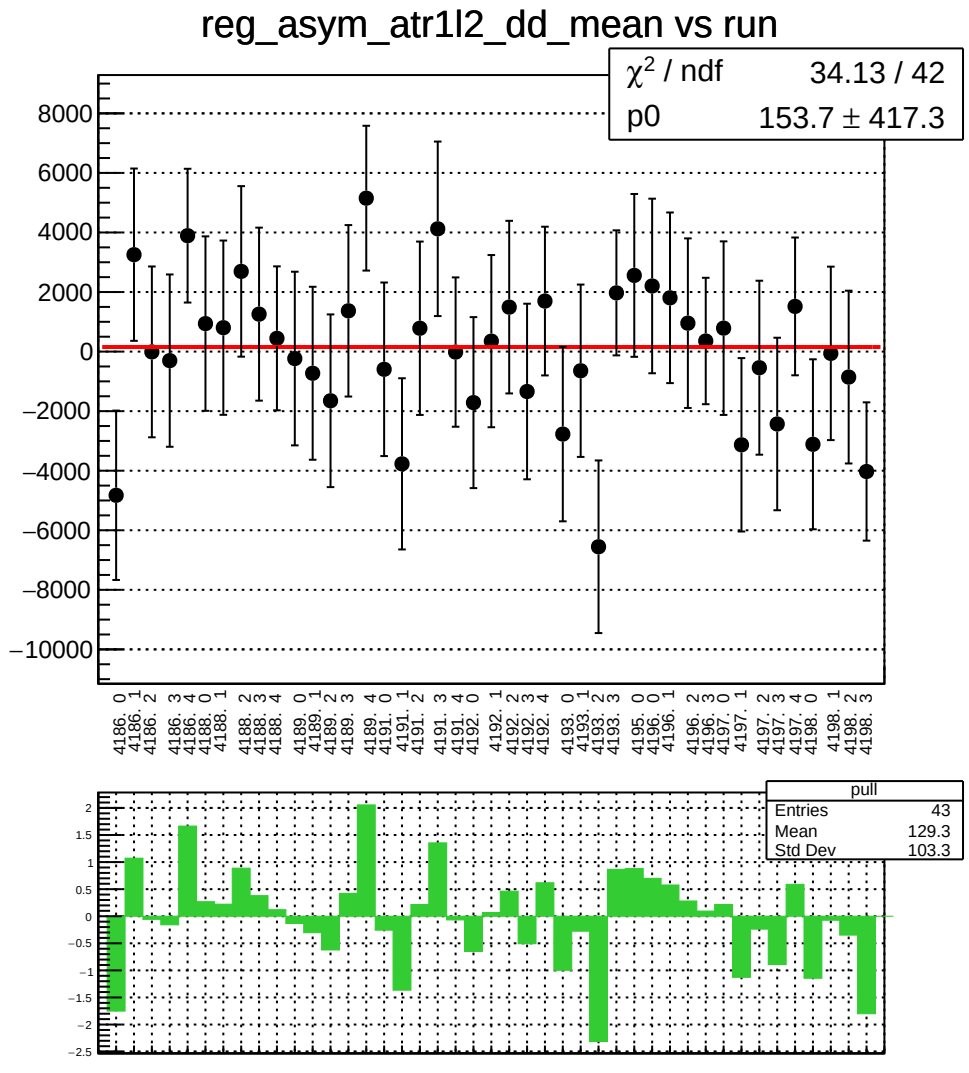

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 31.56 / 42
p0 3579 ± 2222
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 92.04
Std Dev 57.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01191
Std Dev 0.8566
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

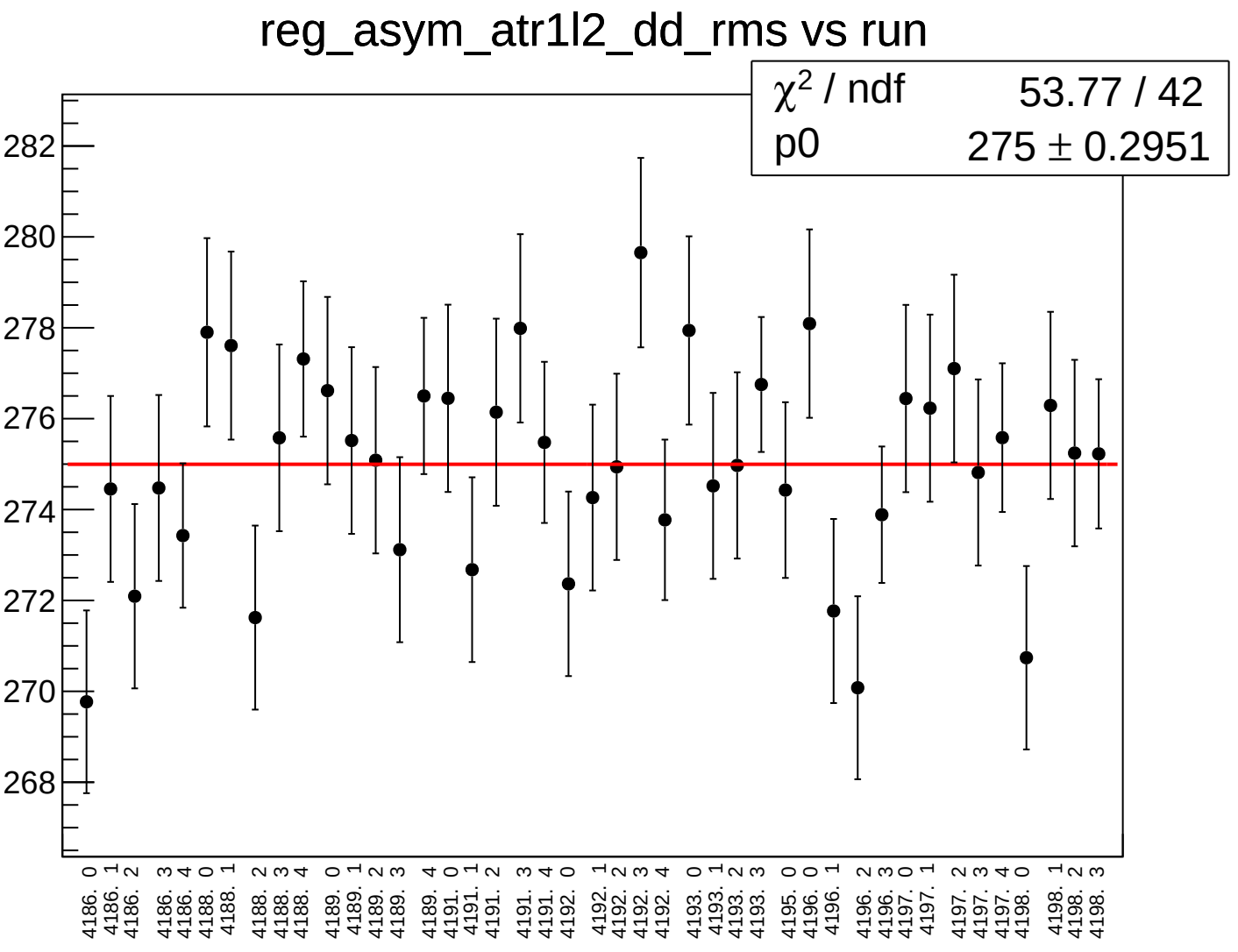

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 504.7 / 42
p0 1464 ± 1.571
1550
1500
1450
1400
1350
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

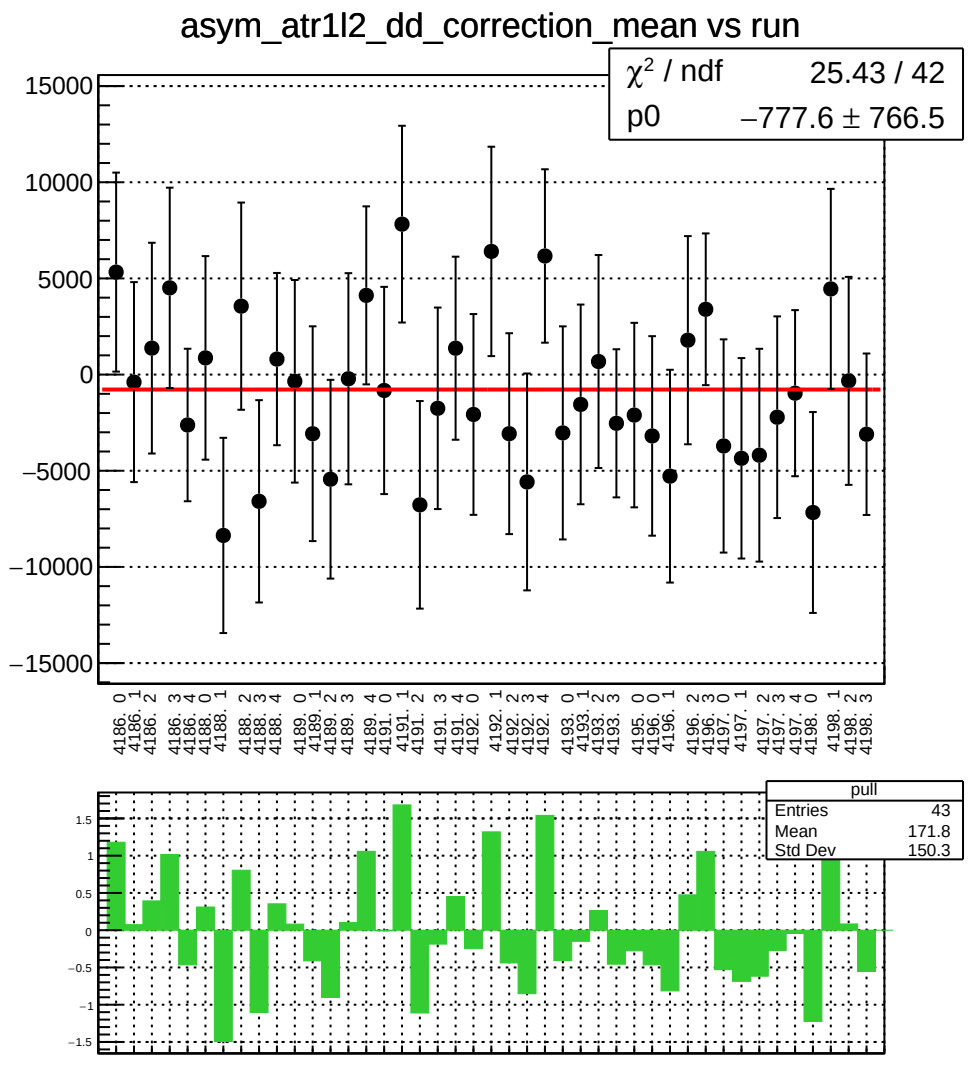

asym_atr1l2_avg_mean vs run
χ² / ndf 33.13 / 42
p0 −3346 ± 2271
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 30.92
Std Dev 36.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

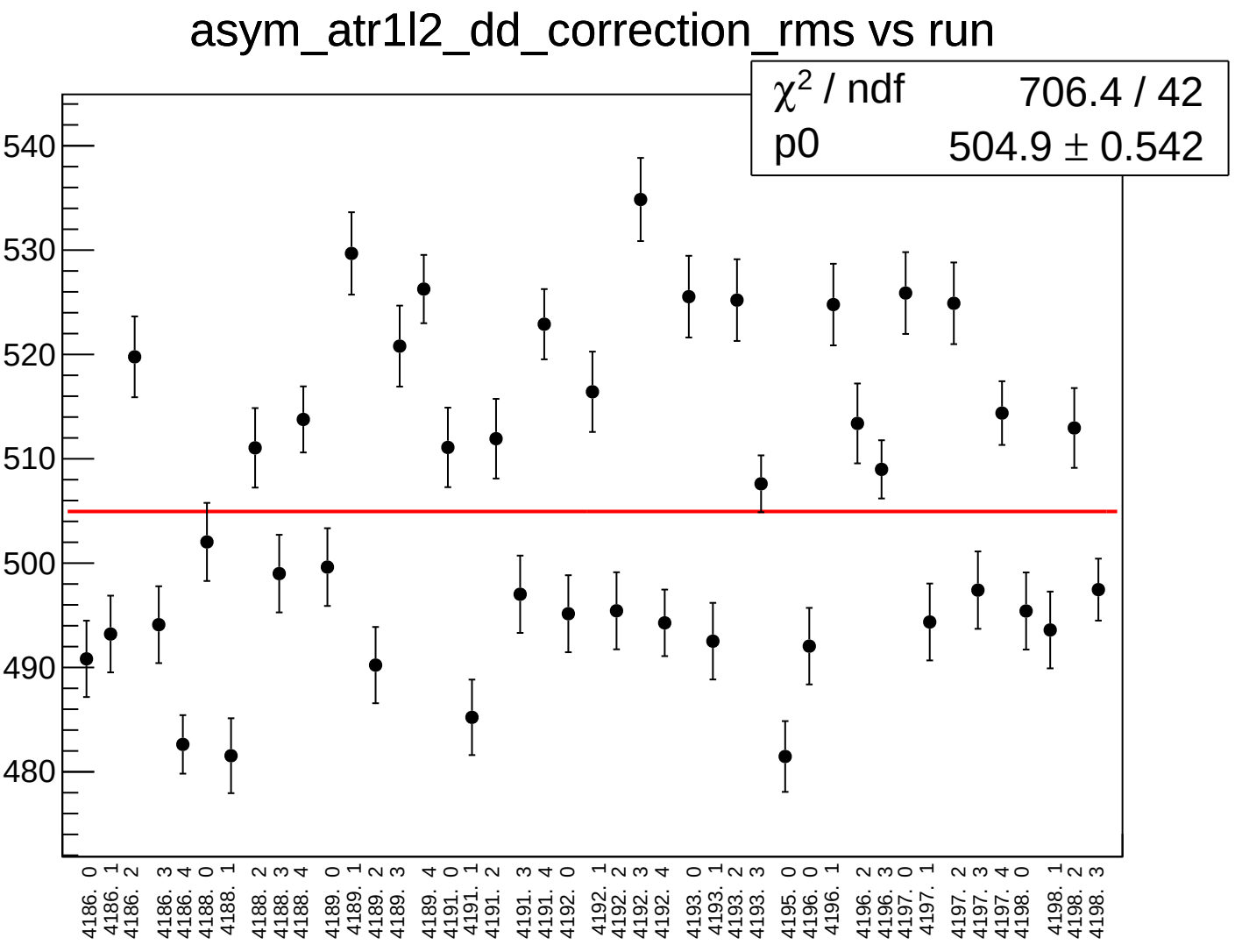

pull1D
Entries 43
Mean −0.01235
Std Dev 0.8777
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

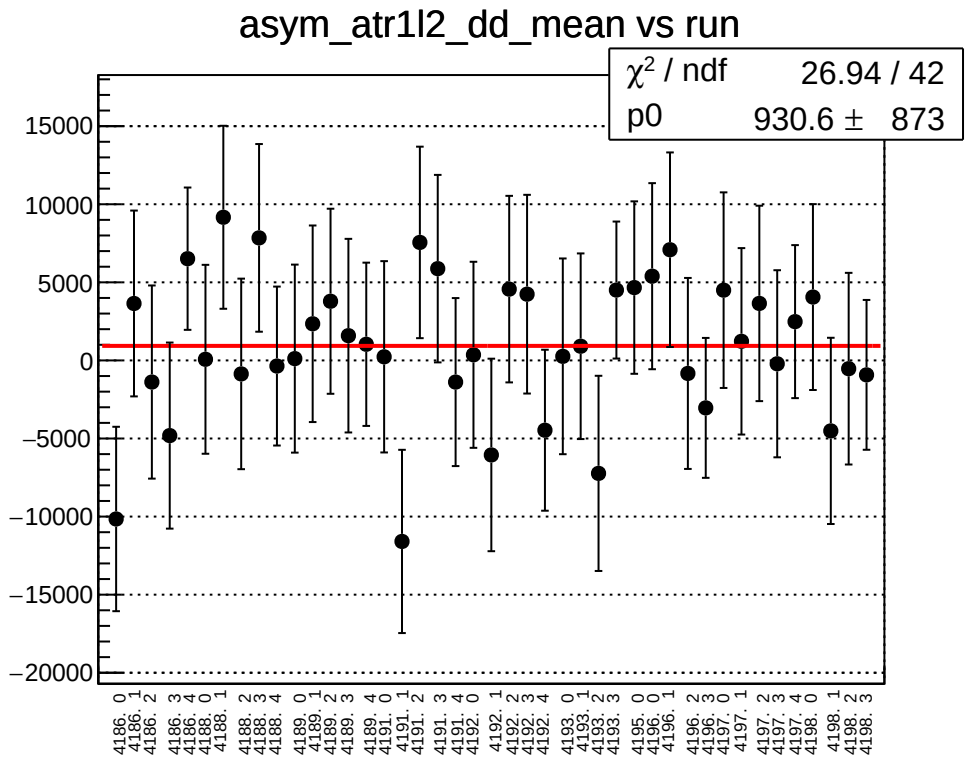

asym_atr1l2_avg_rms vs run
χ² / ndf 464.3 / 42
p0 1496 ± 1.606
1600
1550
1500
1450
1400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

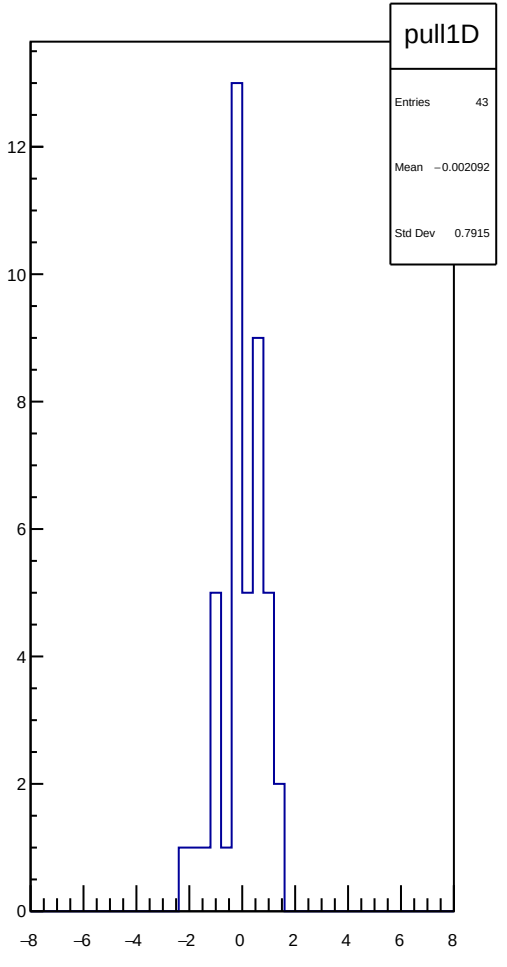

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 34.13 / 42
p0 153.7 ± 417.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 129.3
Std Dev 103.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02481
Std Dev 0.8906
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

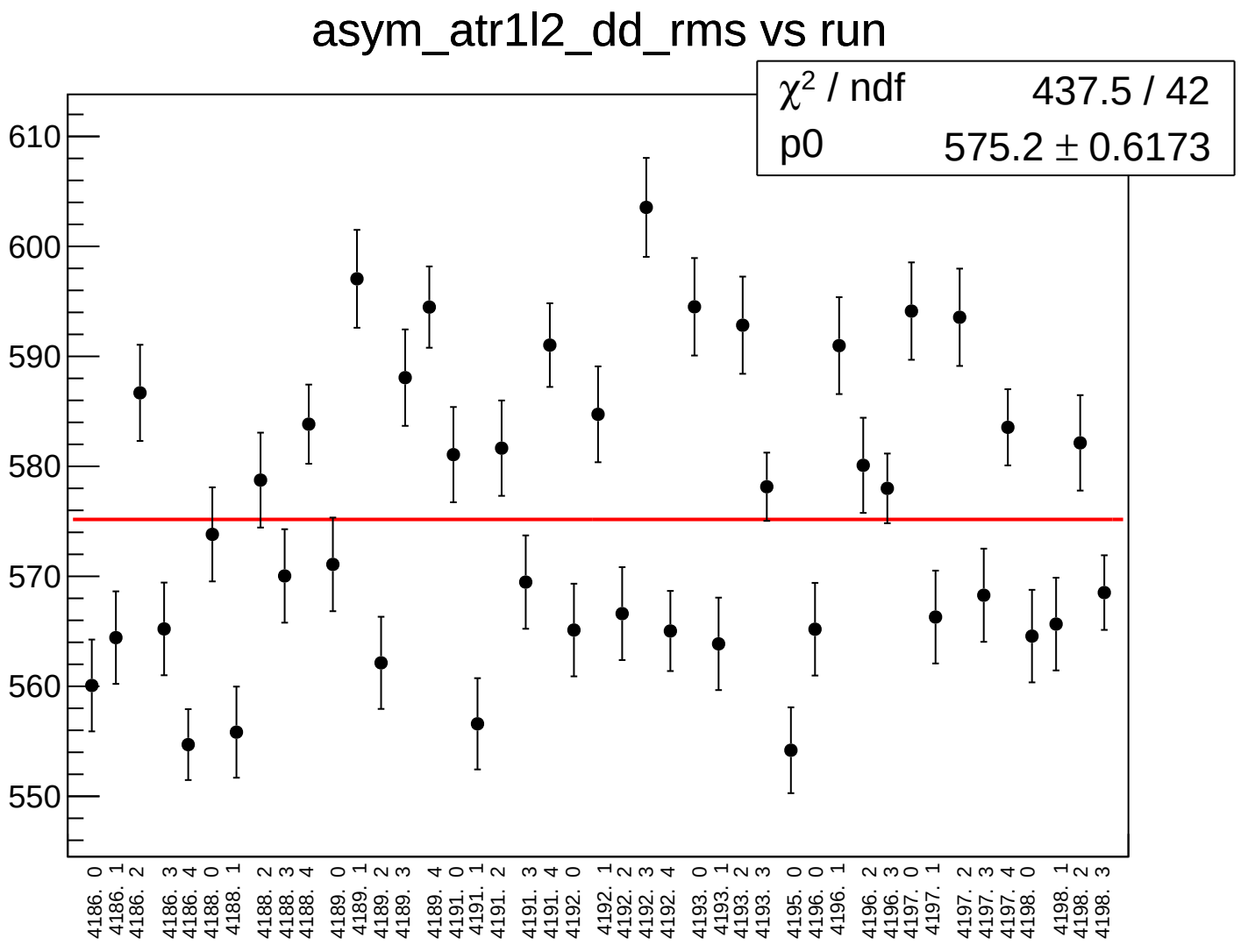

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 53.77 / 42
p0 275 ± 0.2951
282
280
278
276
274
272
270
268
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

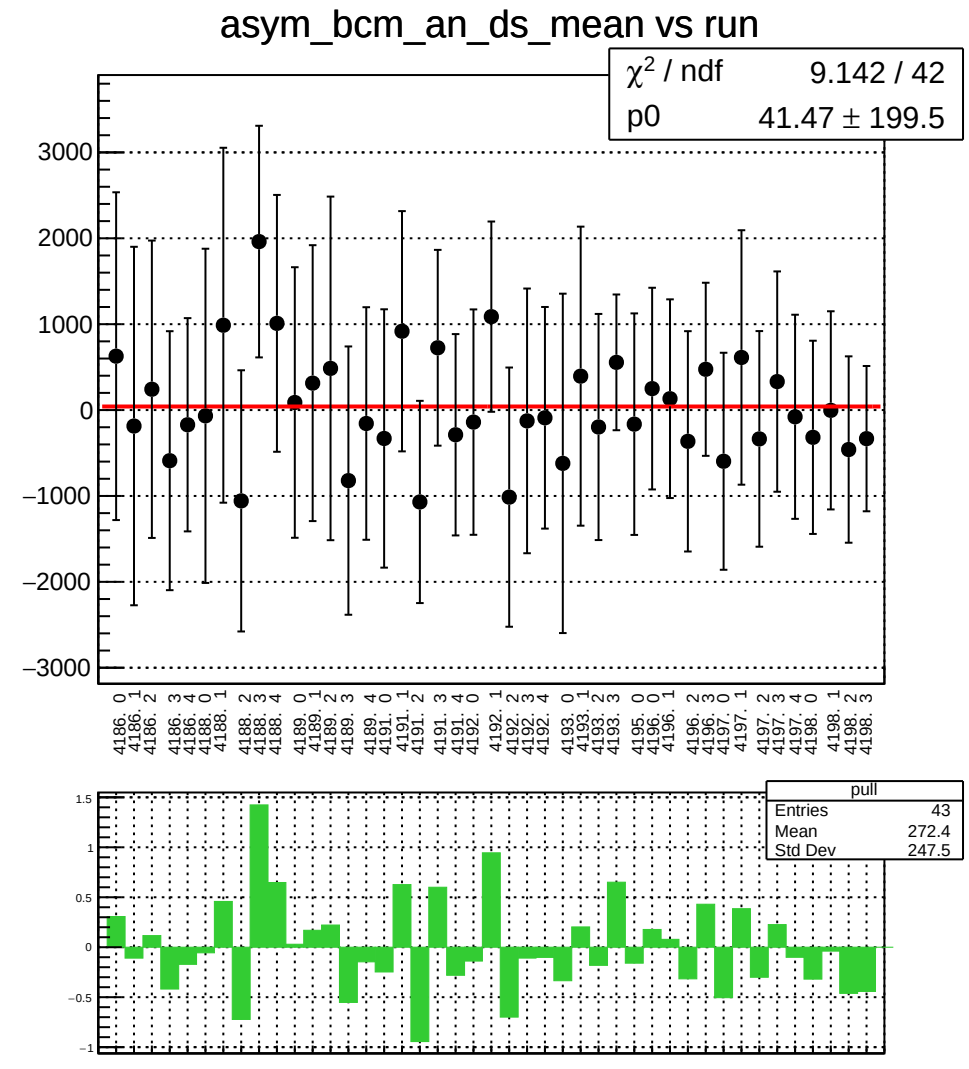

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 25.43 / 42
p0 −777.6 ± 766.5
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 171.8
Std Dev 150.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01093
Std Dev 0.769
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

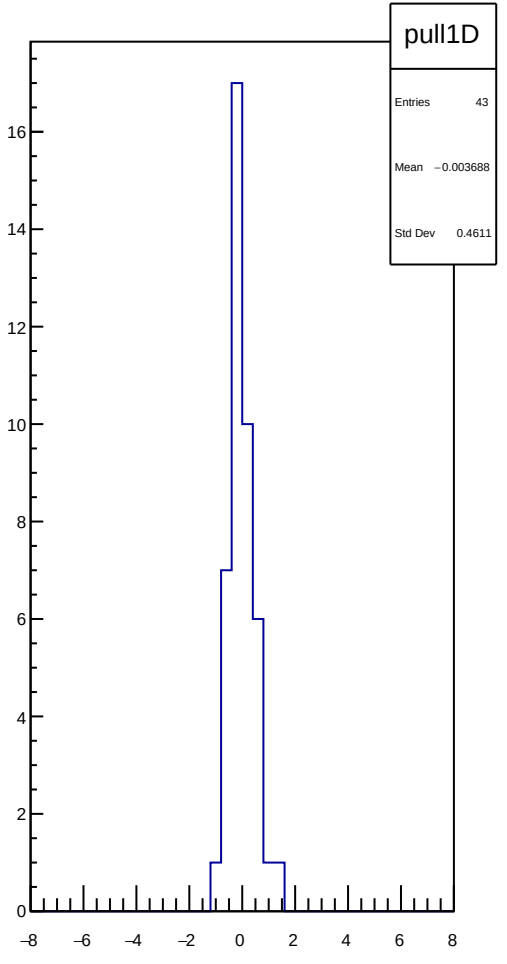

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 706.4 / 42
p0 504.9 ± 0.542
540
530
520
510
500
490
480
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

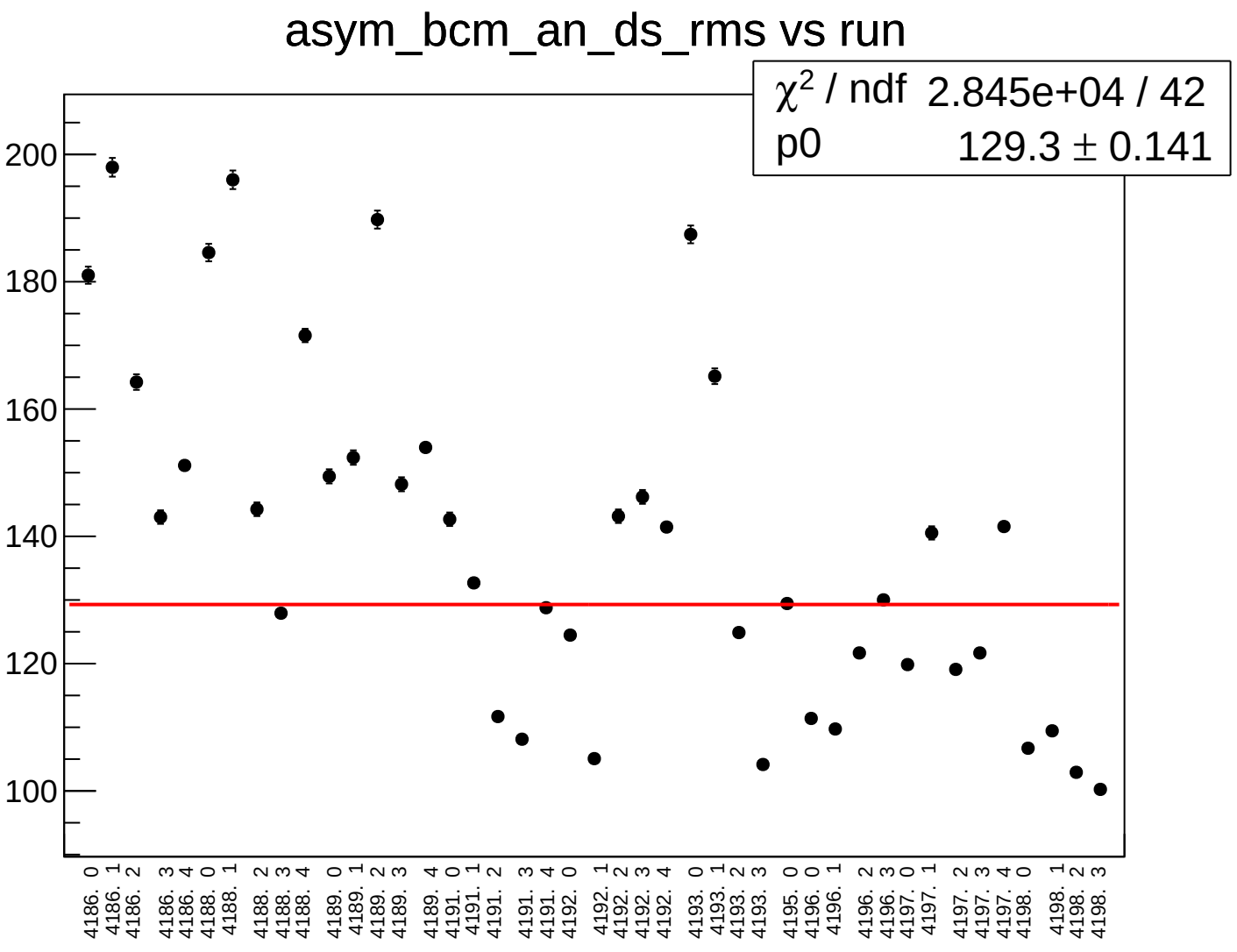

asym_atr1l2_dd_mean vs run
χ² / ndf 26.94 / 42
p0 930.6 ± 873
15000
10000
5000
0
−5000
−10000
−15000
−20000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −57.27
Std Dev 26.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2

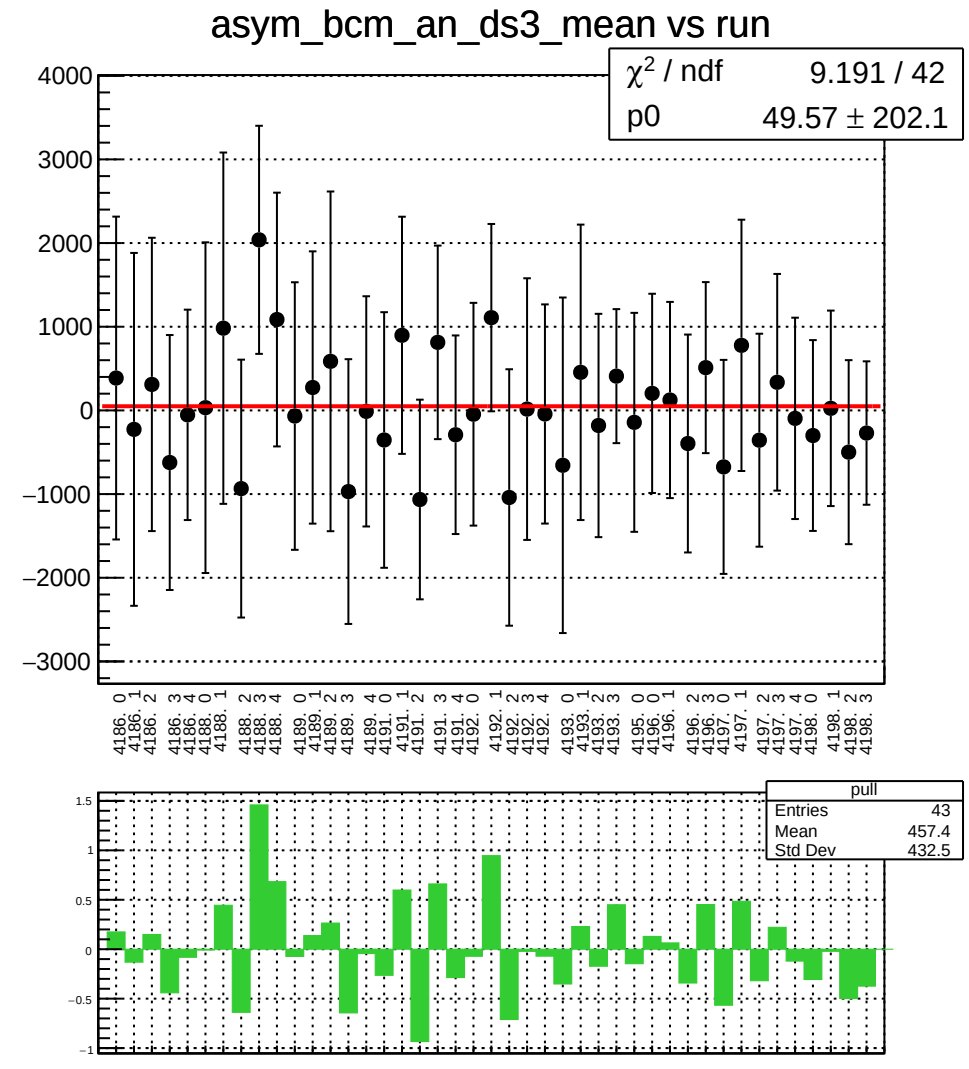

pull1D
Entries 43
Mean −0.002092
Std Dev 0.7915
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

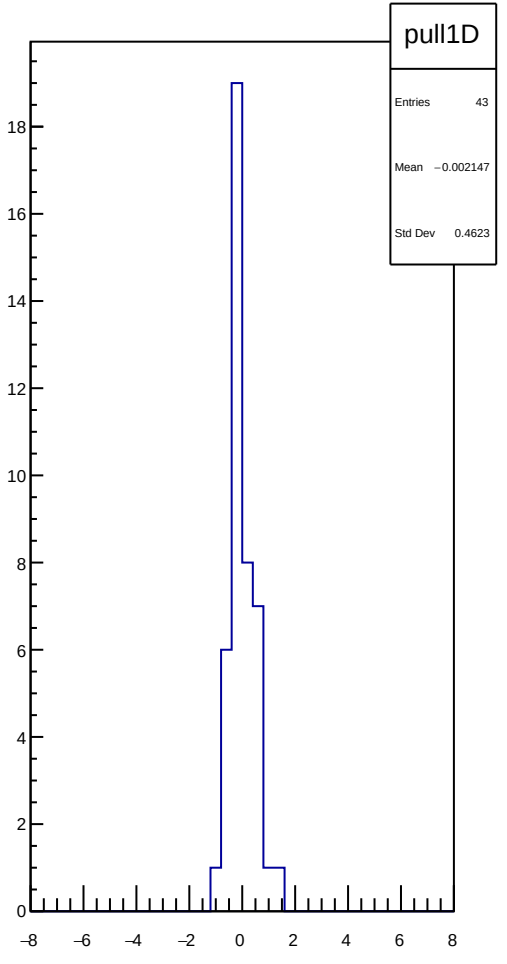

asym_atr1l2_dd_rms vs run
χ² / ndf 437.5 / 42
p0 575.2 ± 0.6173
610
600
590
580
570
560
550
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

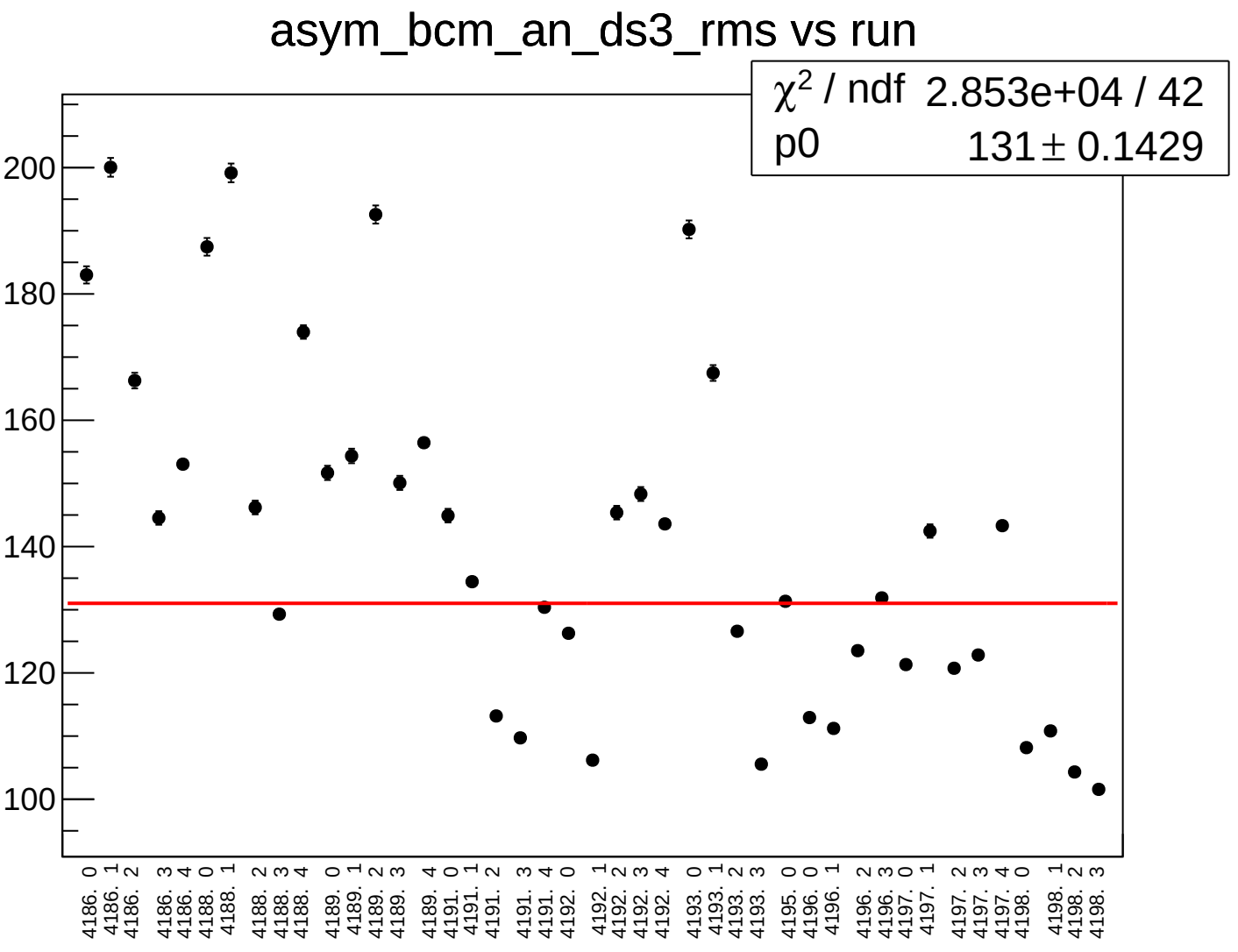

asym_bcm_an_ds_mean vs run
χ² / ndf 9.142 / 42
p0 41.47 ± 199.5
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 272.4
Std Dev 247.5
1.5
1
0.5
0
−0.5
−1

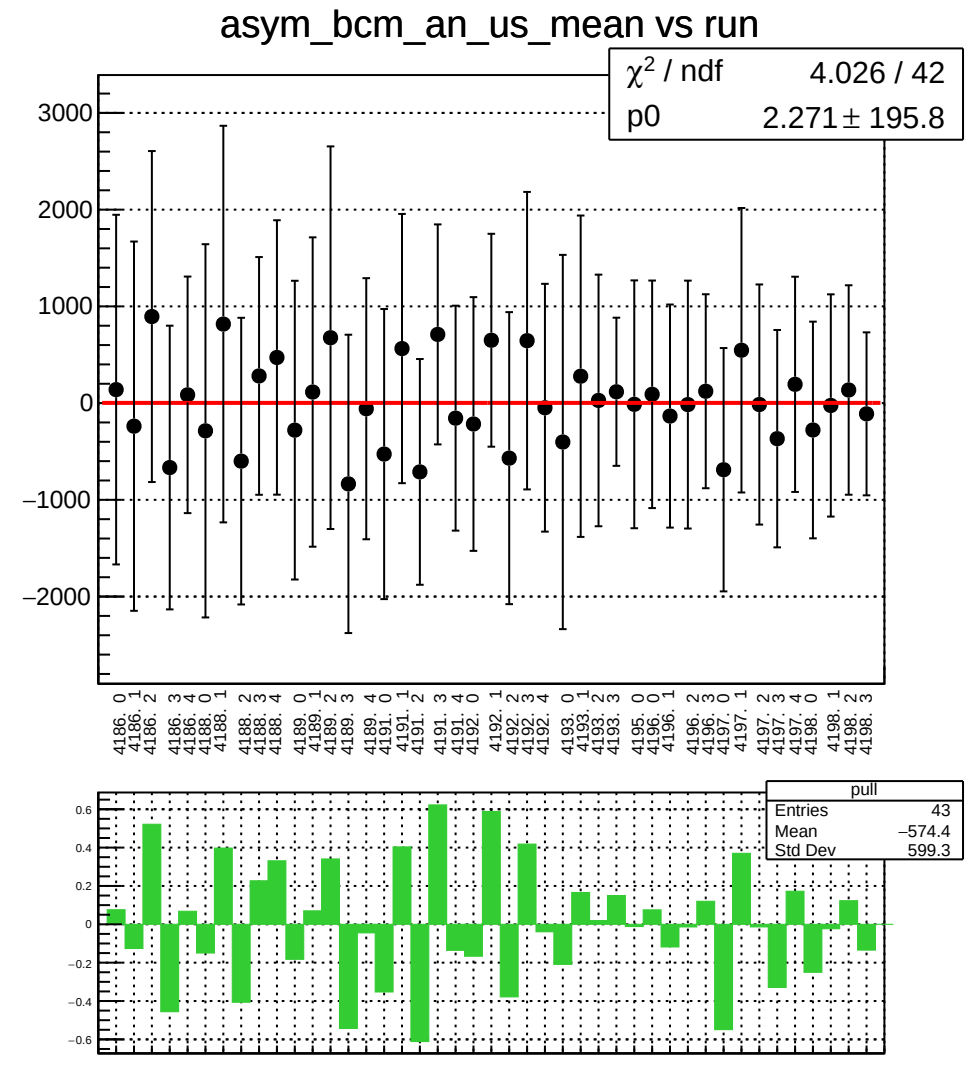

pull1D
Entries 43
Mean −0.003688
Std Dev 0.4611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

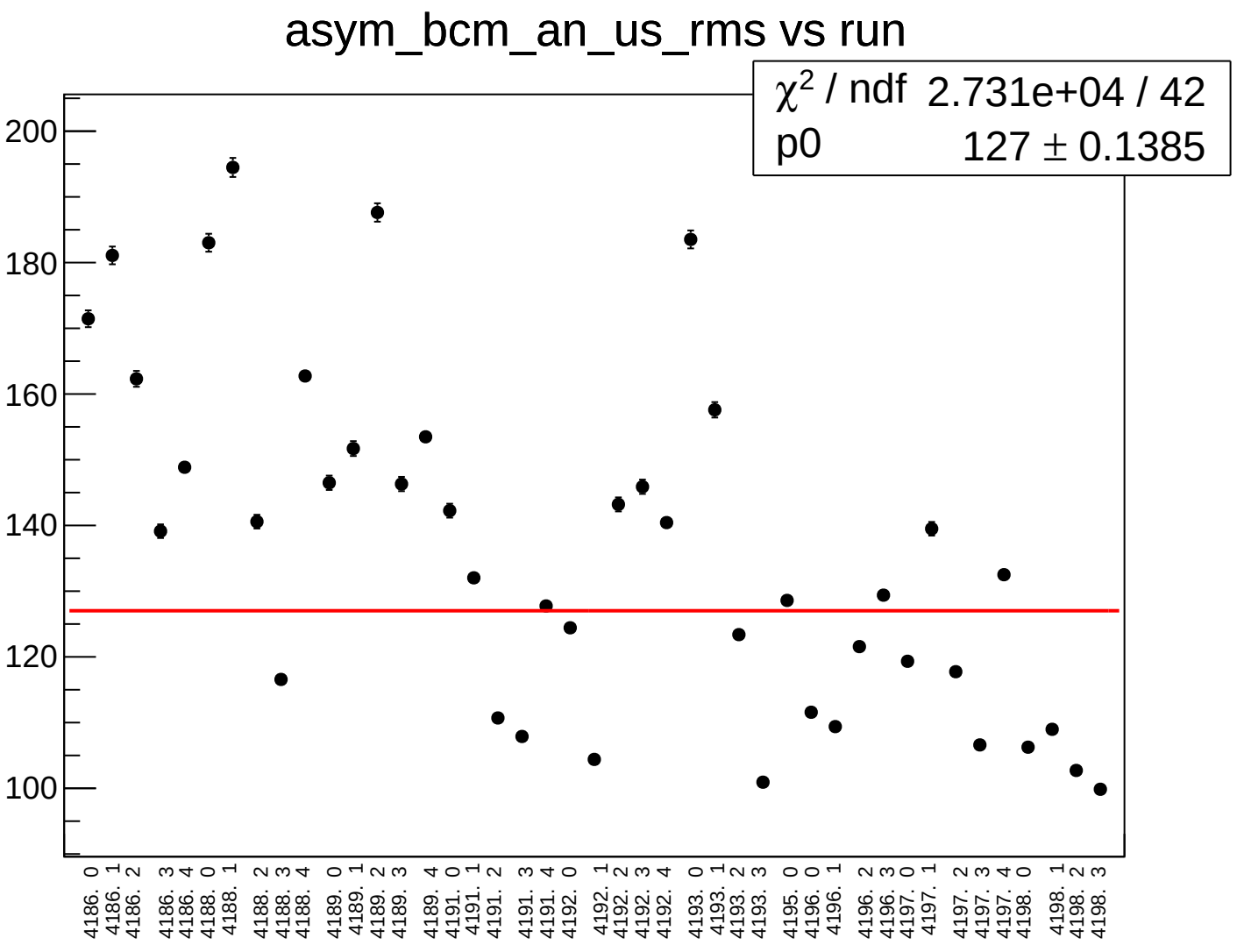

asym_bcm_an_ds_rms vs run
χ² / ndf 2.845e+04 / 42
p0 129.3 ± 0.141
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

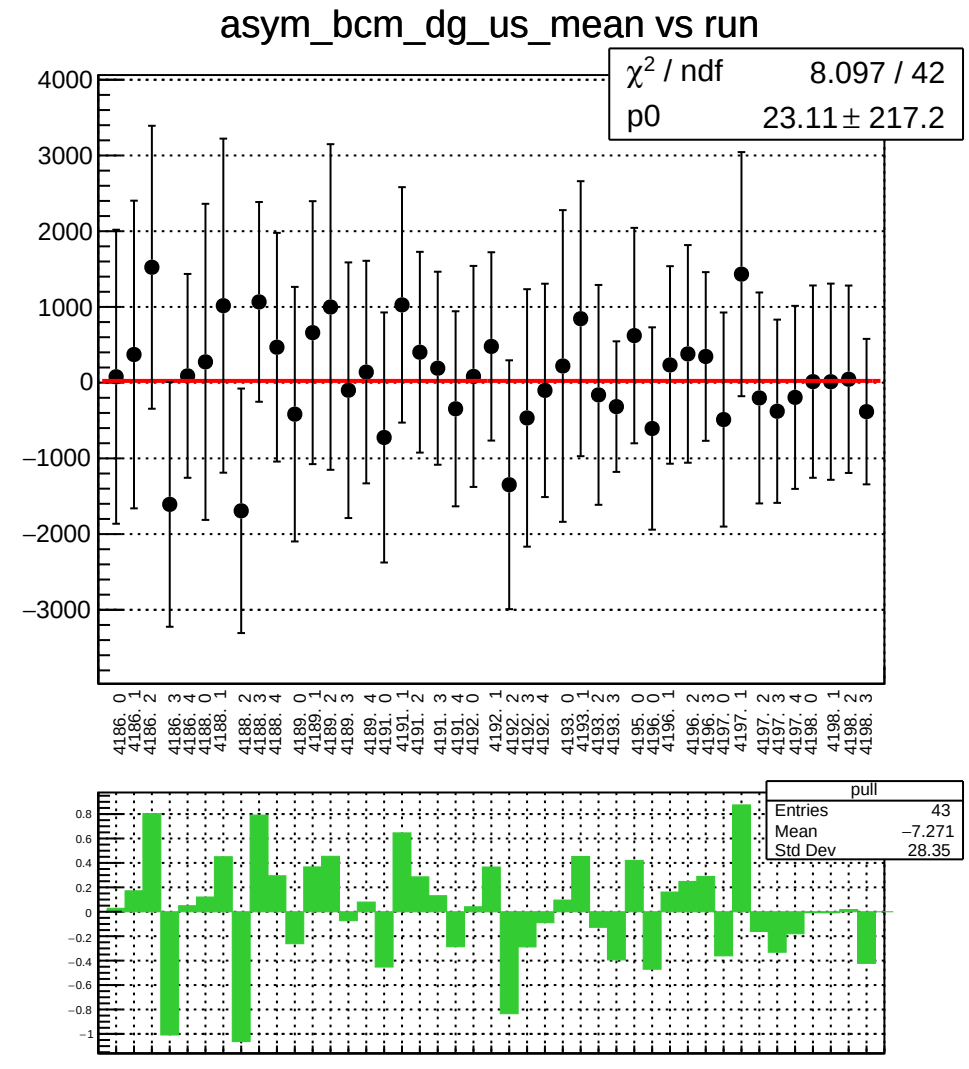

asym_bcm_an_ds3_mean vs run
χ^2 / ndf 9.191 / 42
p0 49.57 ± 202.1
4000
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 457.4
Std Dev 432.5
1.5
1
0.5
0
−0.5
−1

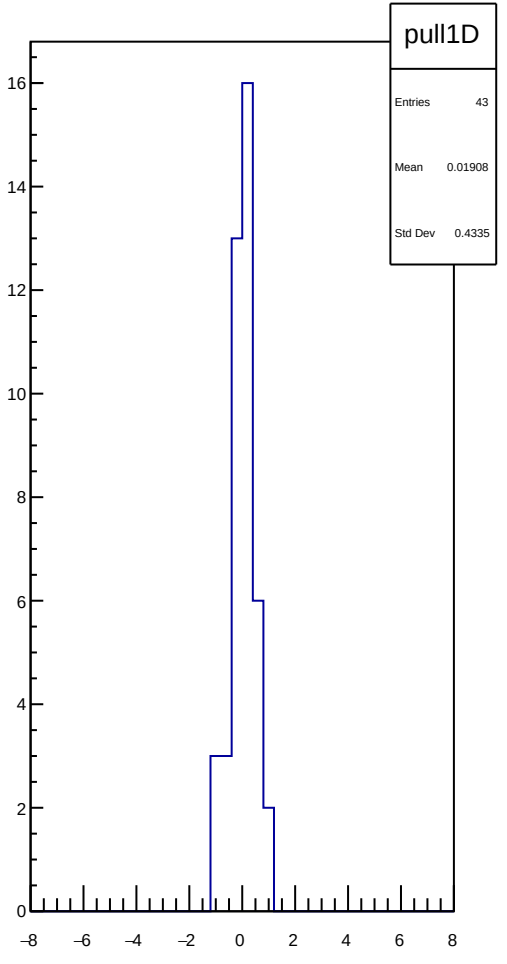

pull1D
Entries 43
Mean −0.002147
Std Dev 0.4623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

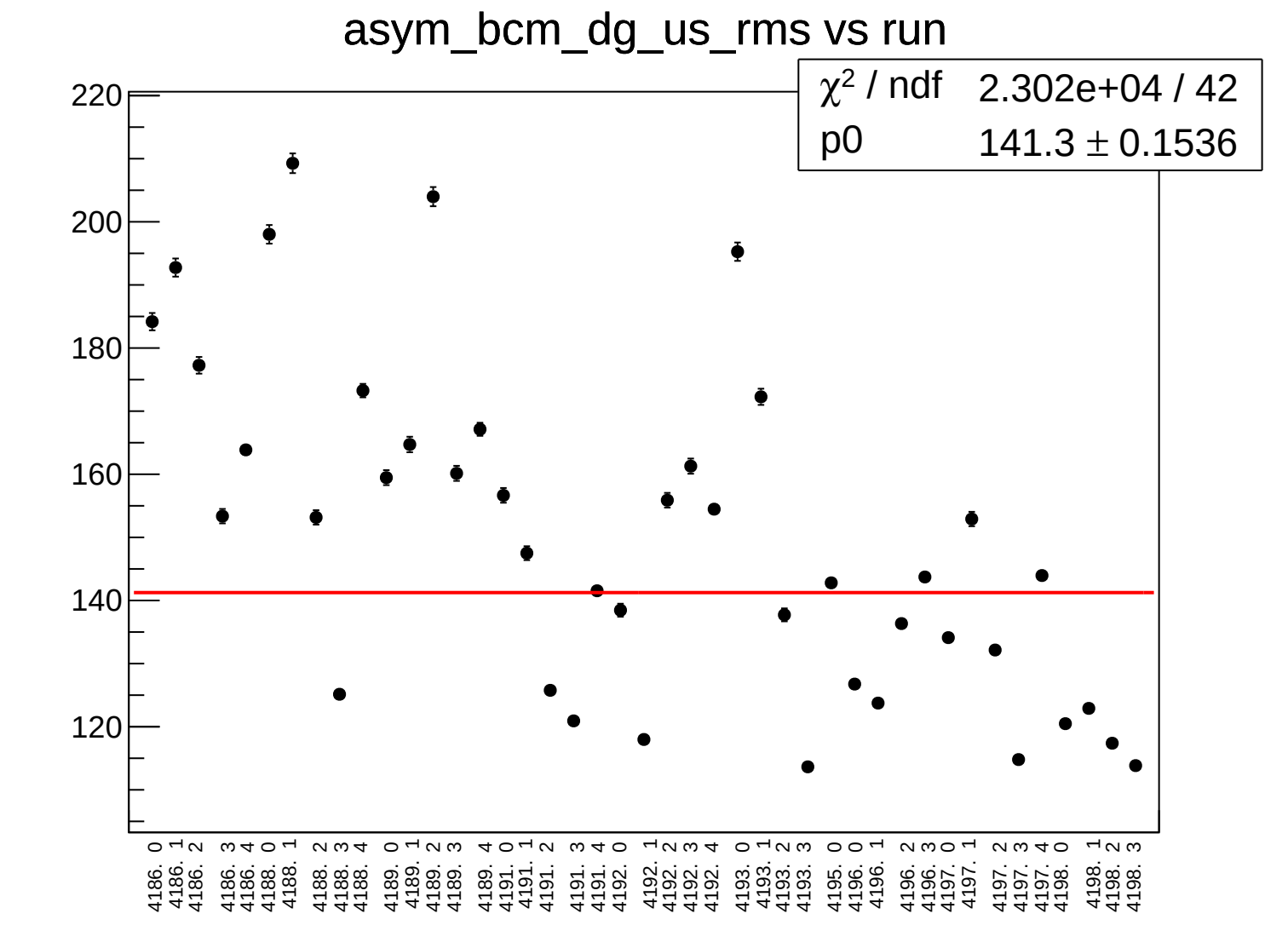

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.853e+04 / 42
p0 131 ± 0.1429
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

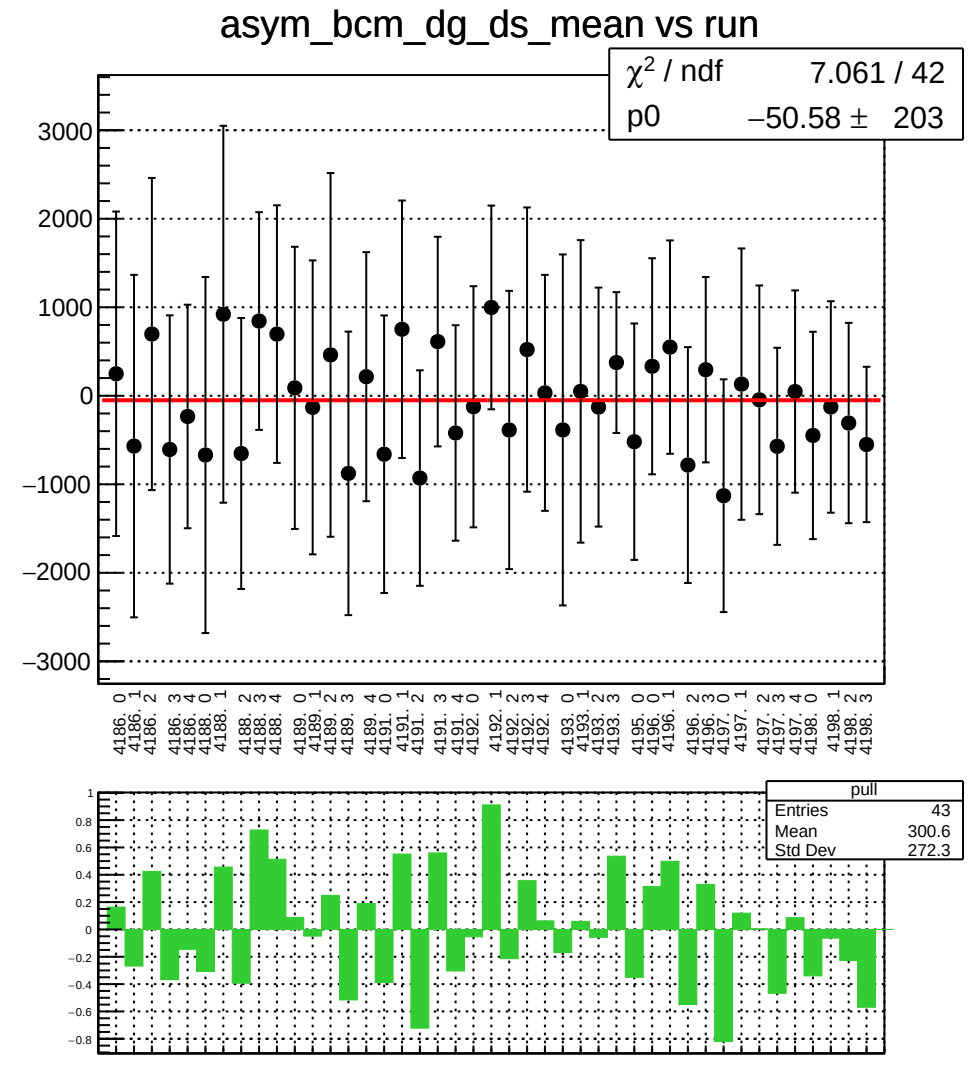

asym_bcm_an_us_mean vs run
χ² / ndf 4.026 / 42
p0 2.271 ± 195.8
3000
2000
1000
0
−1000
−2000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −574.4
Std Dev 599.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.0004032
Std Dev 0.306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

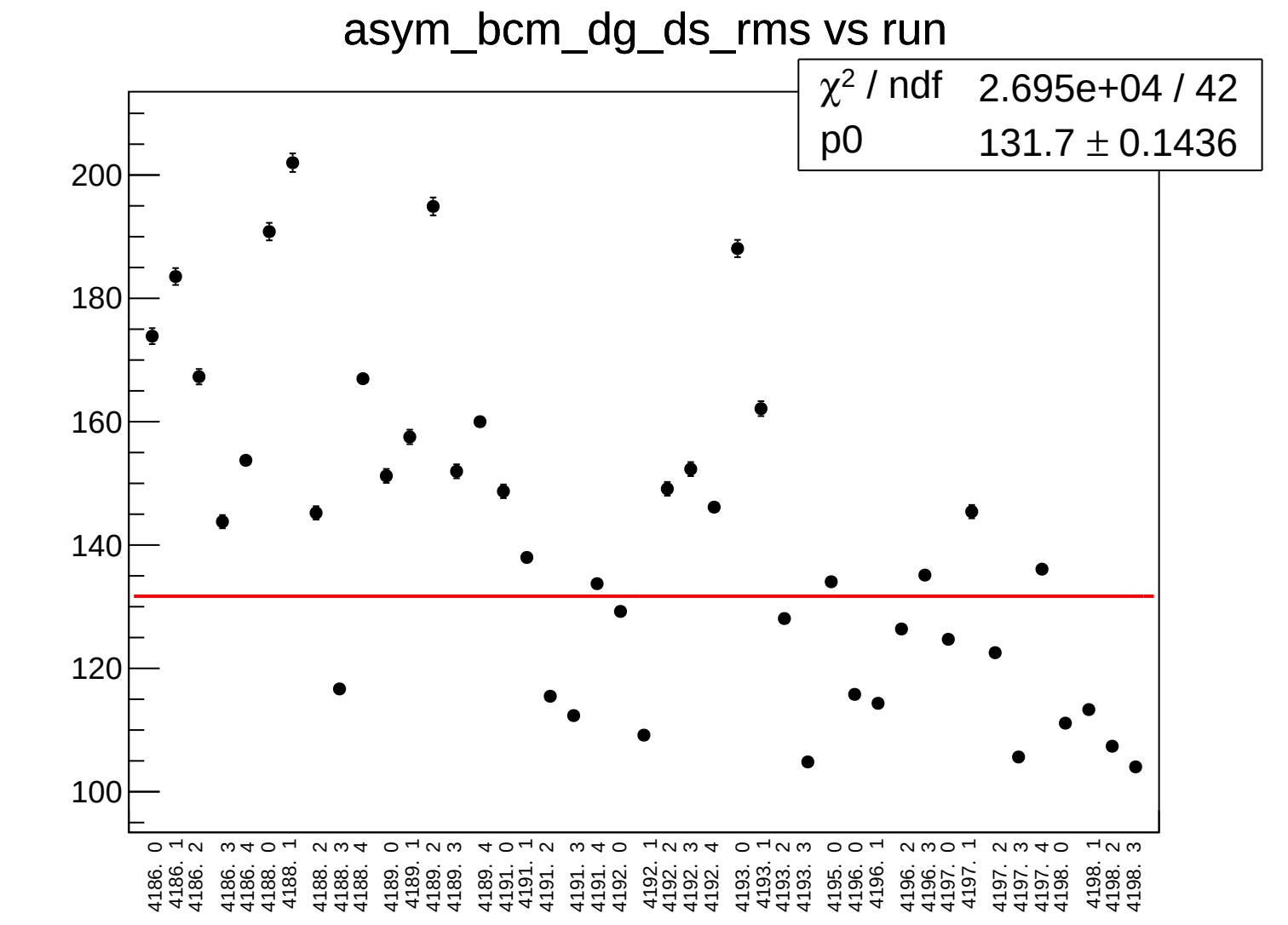

asym_bcm_an_us_rms vs run
χ² / ndf 2.731e+04 / 42
p0 127 ± 0.1385
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

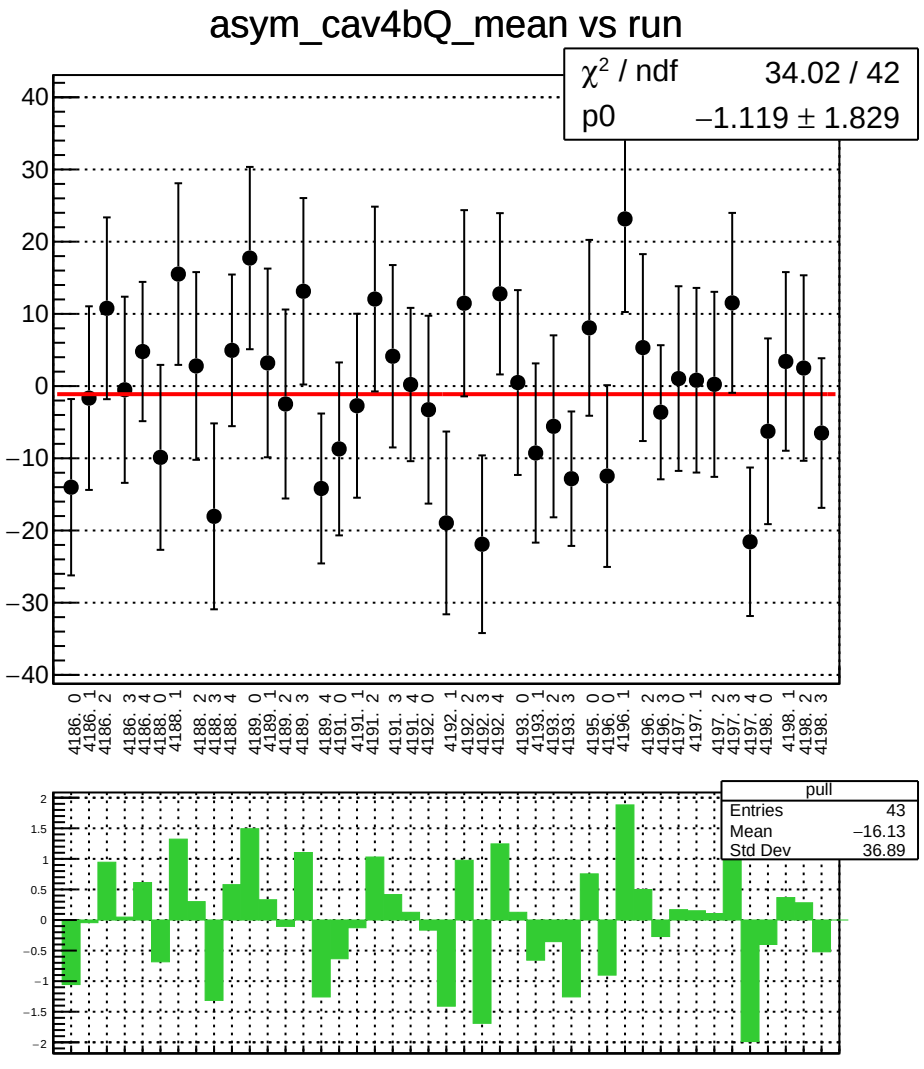

asym_bcm_dg_us_mean vs run
χ² / ndf 8.097 / 42
p0 23.11 ± 217.2
4000
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −7.271
Std Dev 28.35
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

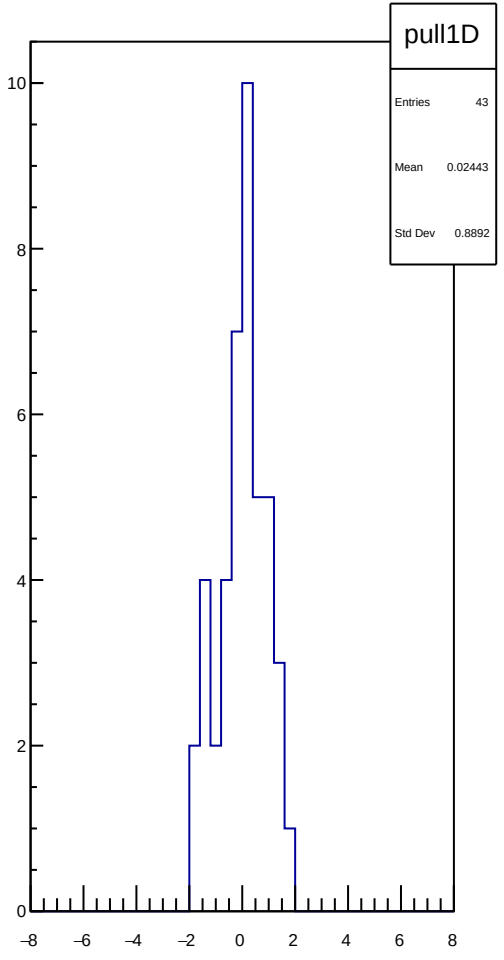

pull1D
Entries 43
Mean 0.01908
Std Dev 0.4335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

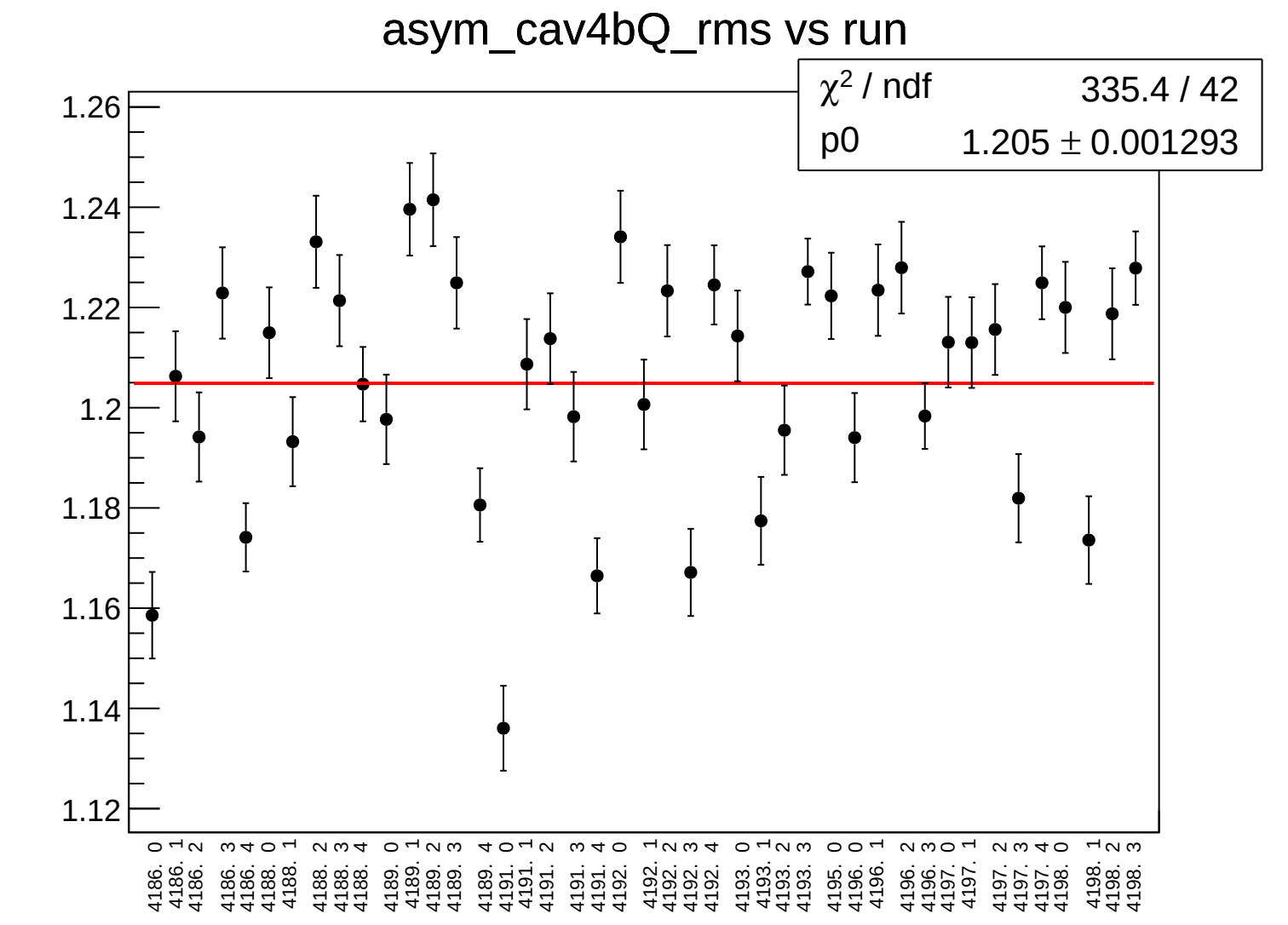

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2.302e+04 / 42
p0 141.3 ± 0.1536
220
200
180
160
140
120
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

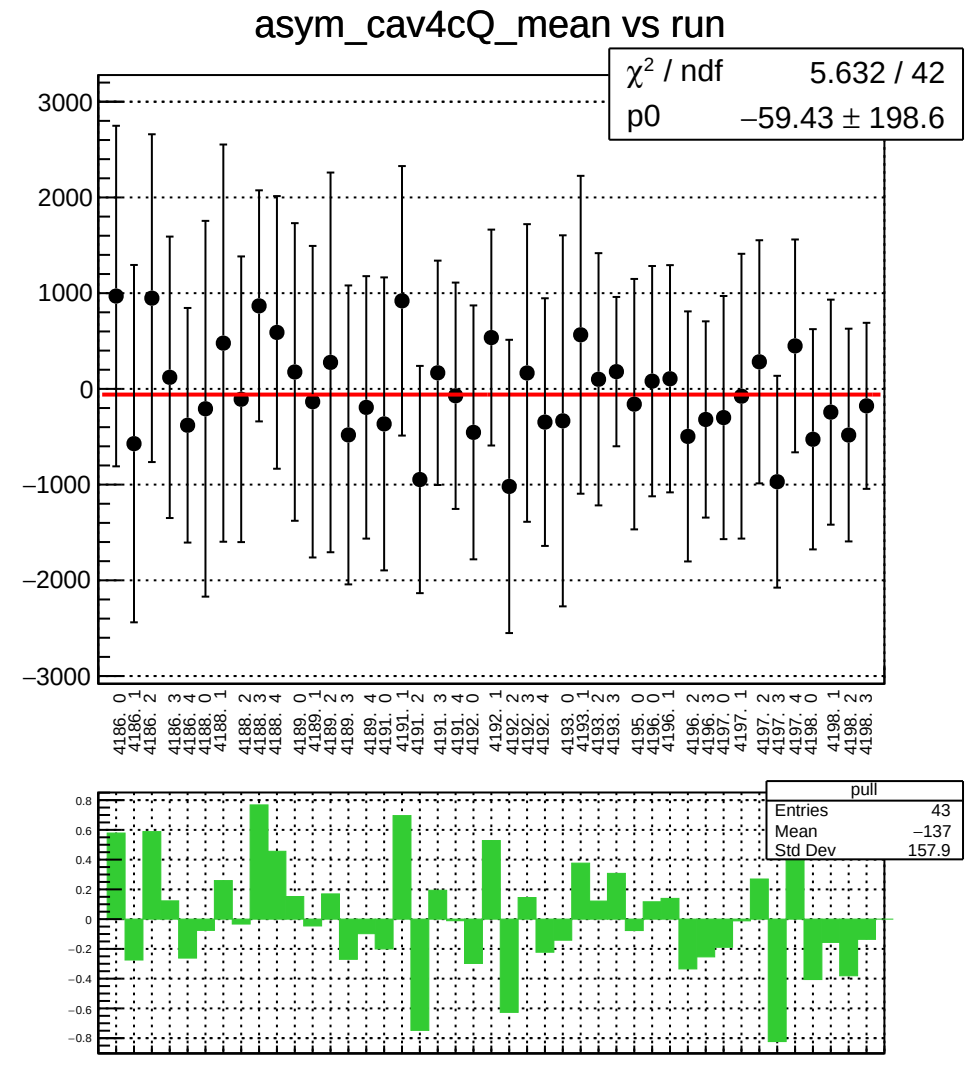

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.061 / 42
p0 −50.58 ± 203
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 300.6
Std Dev 272.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.00331
Std Dev 0.4052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

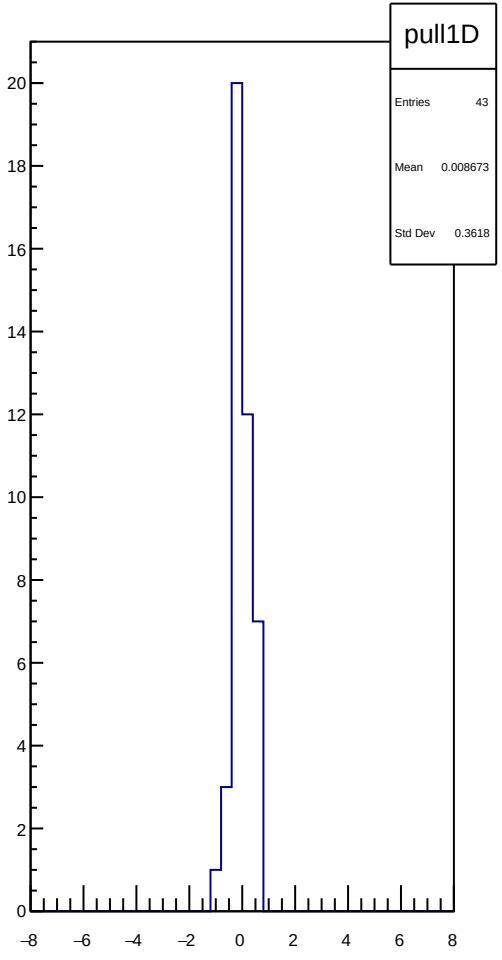

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.695e+04 / 42
p0 131.7 ± 0.1436
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

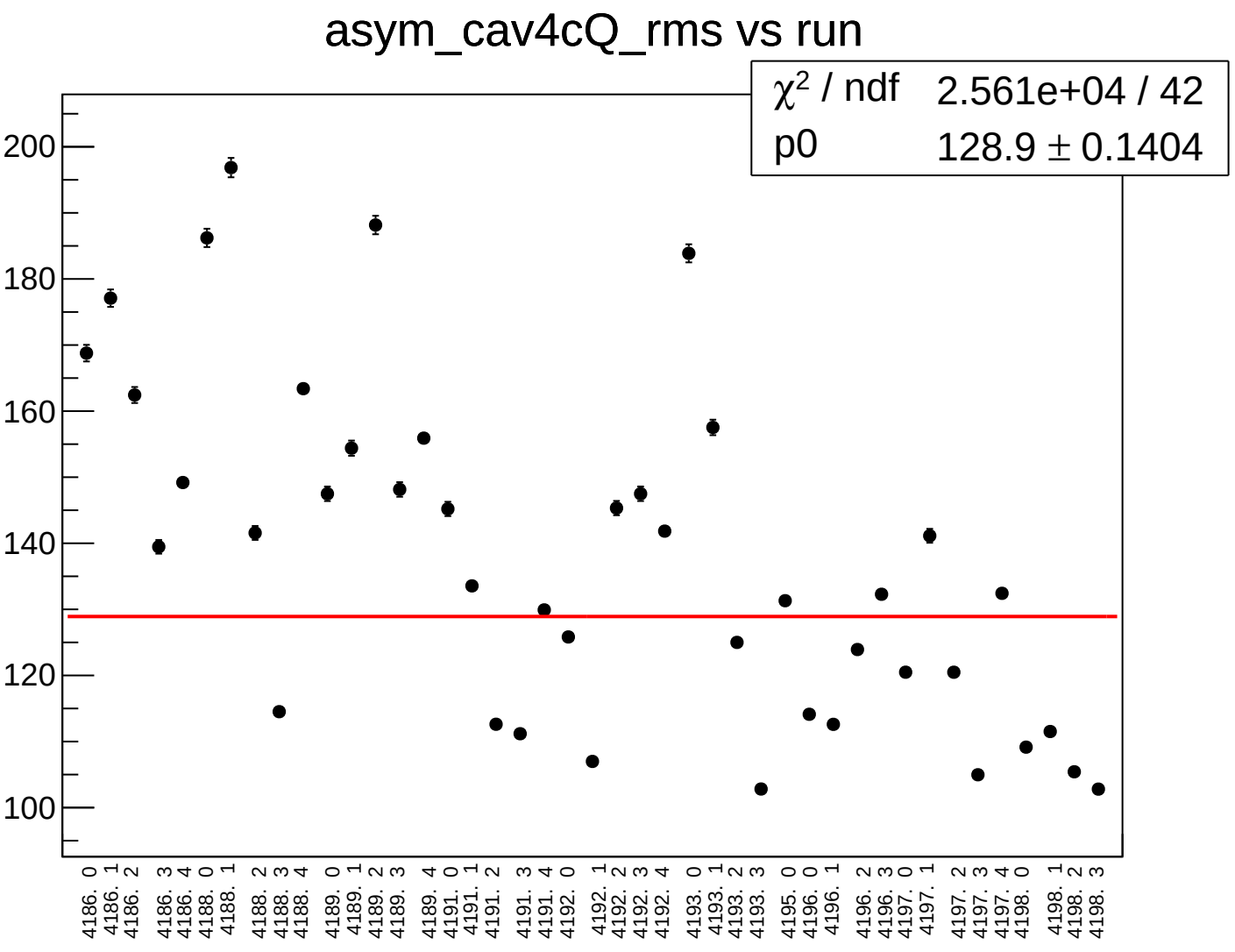

asym_cav4bQ_mean vs run
χ² / ndf 34.02 / 42
p0 −1.119 ± 1.829
pull
Entries 43
Mean −16.13
Std Dev 36.89

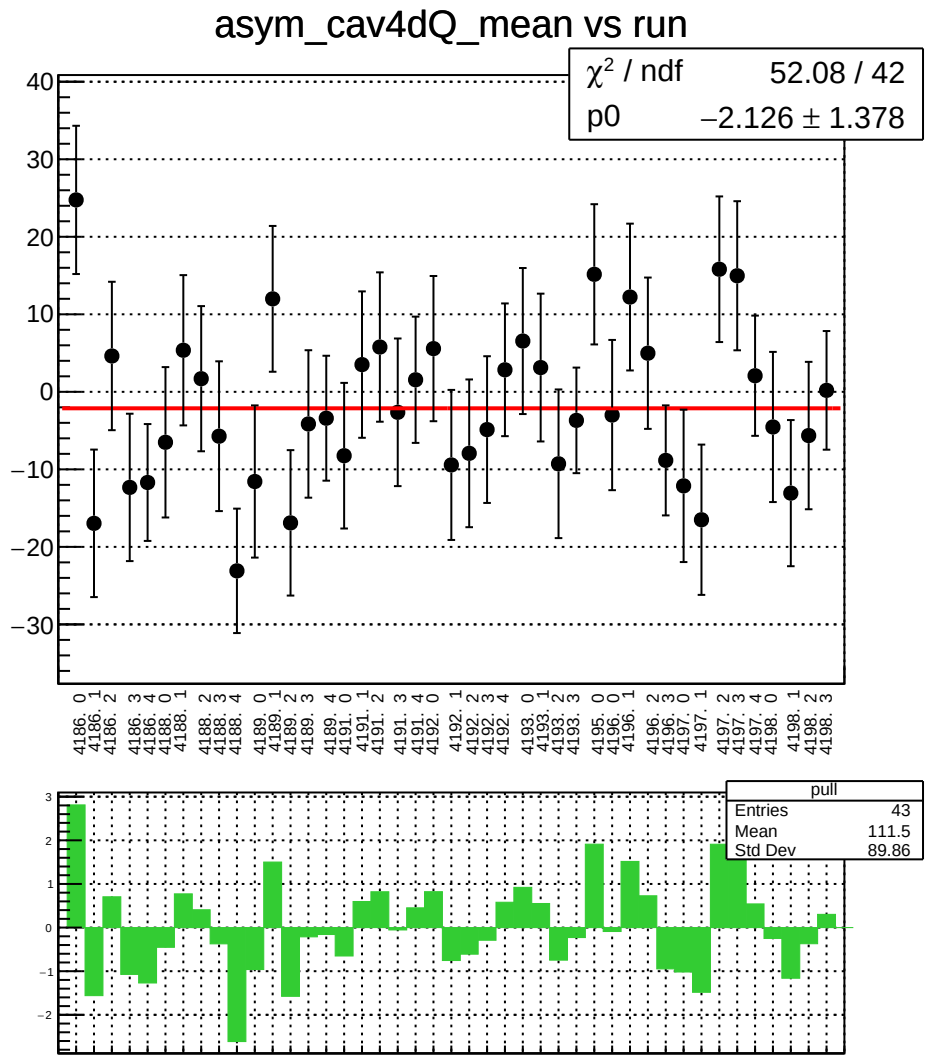

pull1D
Entries 43
Mean 0.02443
Std Dev 0.8892

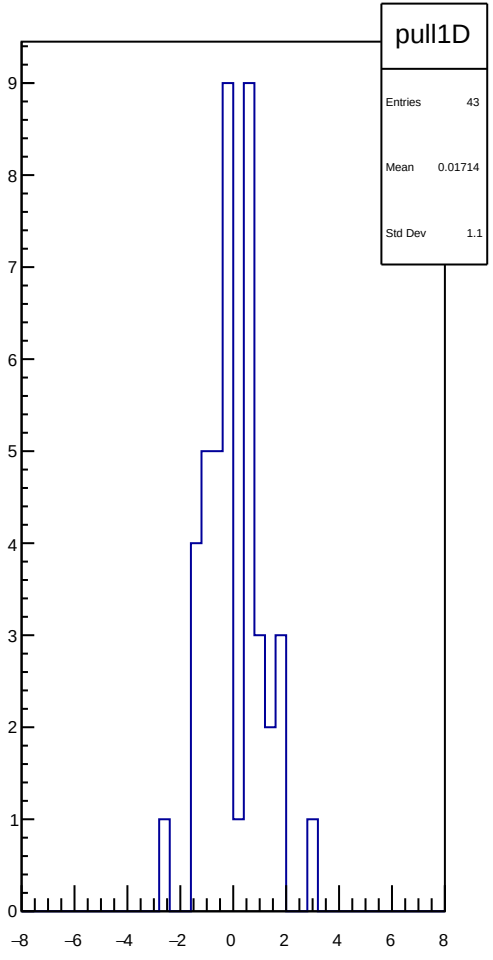

asym_cav4bQ_rms vs run
χ² / ndf 335.4 / 42
p0 1.205 ± 0.001293
1.26
1.24
1.22
1.2
1.18
1.16
1.14
1.12
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

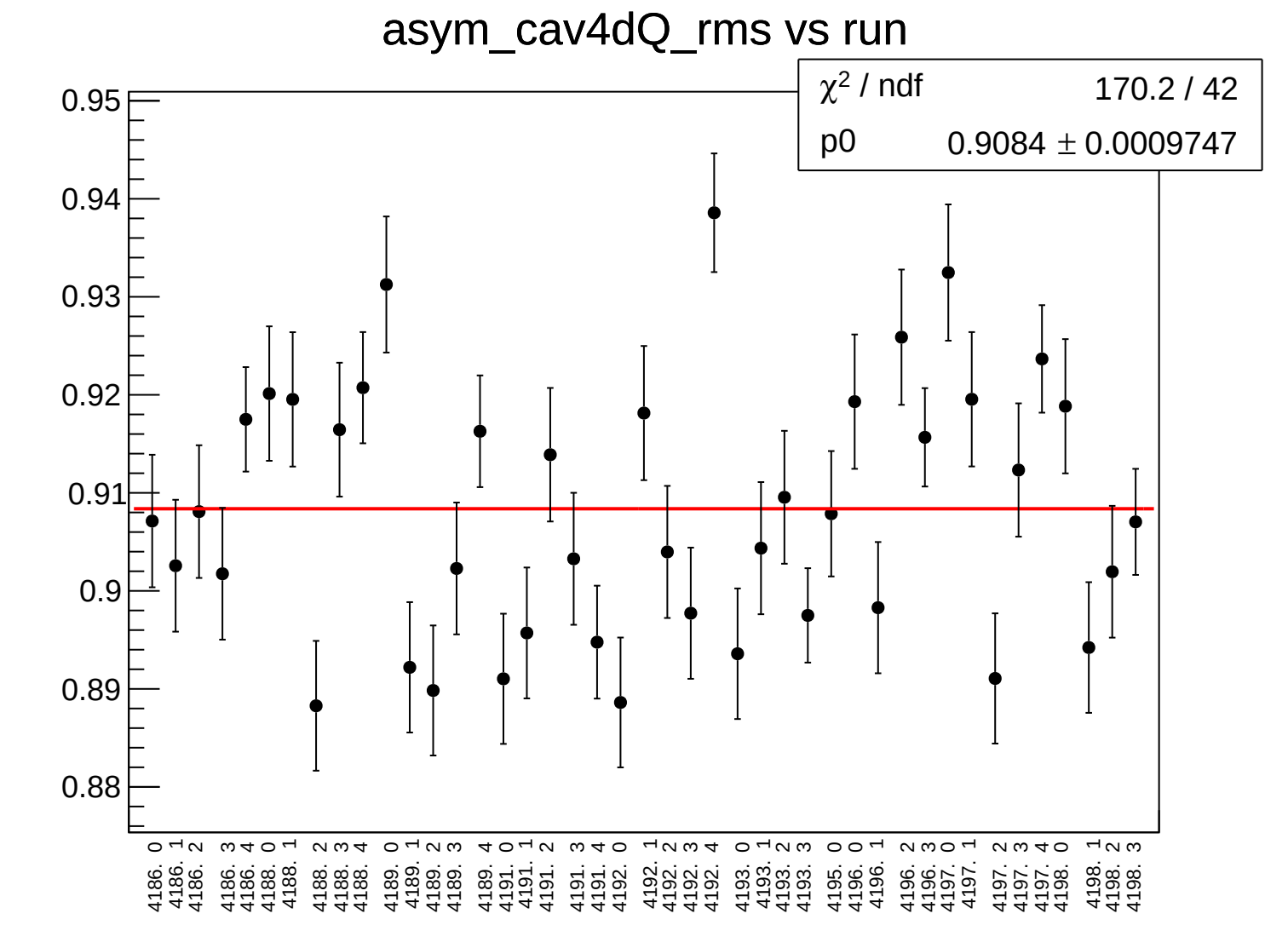

asym_cav4cQ_mean vs run
χ² / ndf 5.632 / 42
p0 −59.43 ± 198.6
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −137
Std Dev 157.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

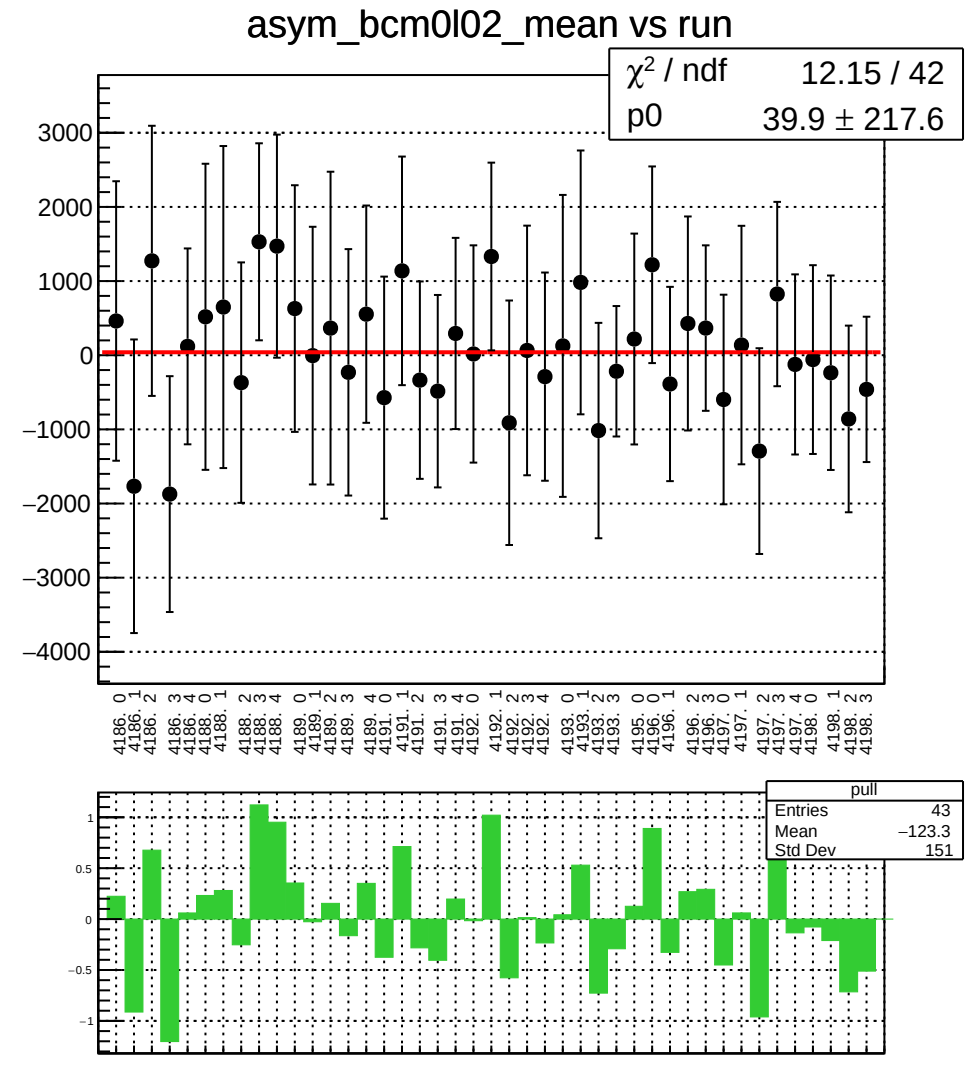

pull1D
Entries 43
Mean 0.008673
Std Dev 0.3618
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

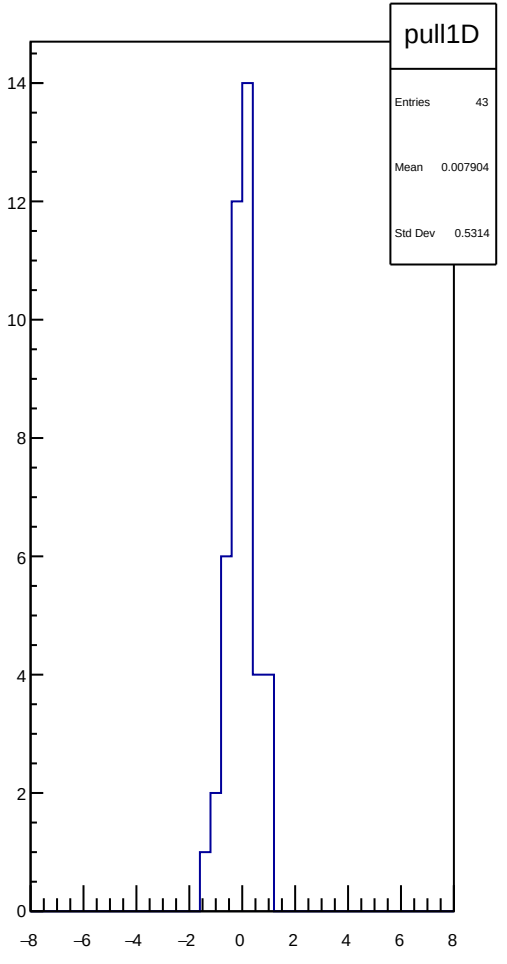

asym_cav4cQ_rms vs run
χ² / ndf 2.561e+04 / 42
p0 128.9 ± 0.1404
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

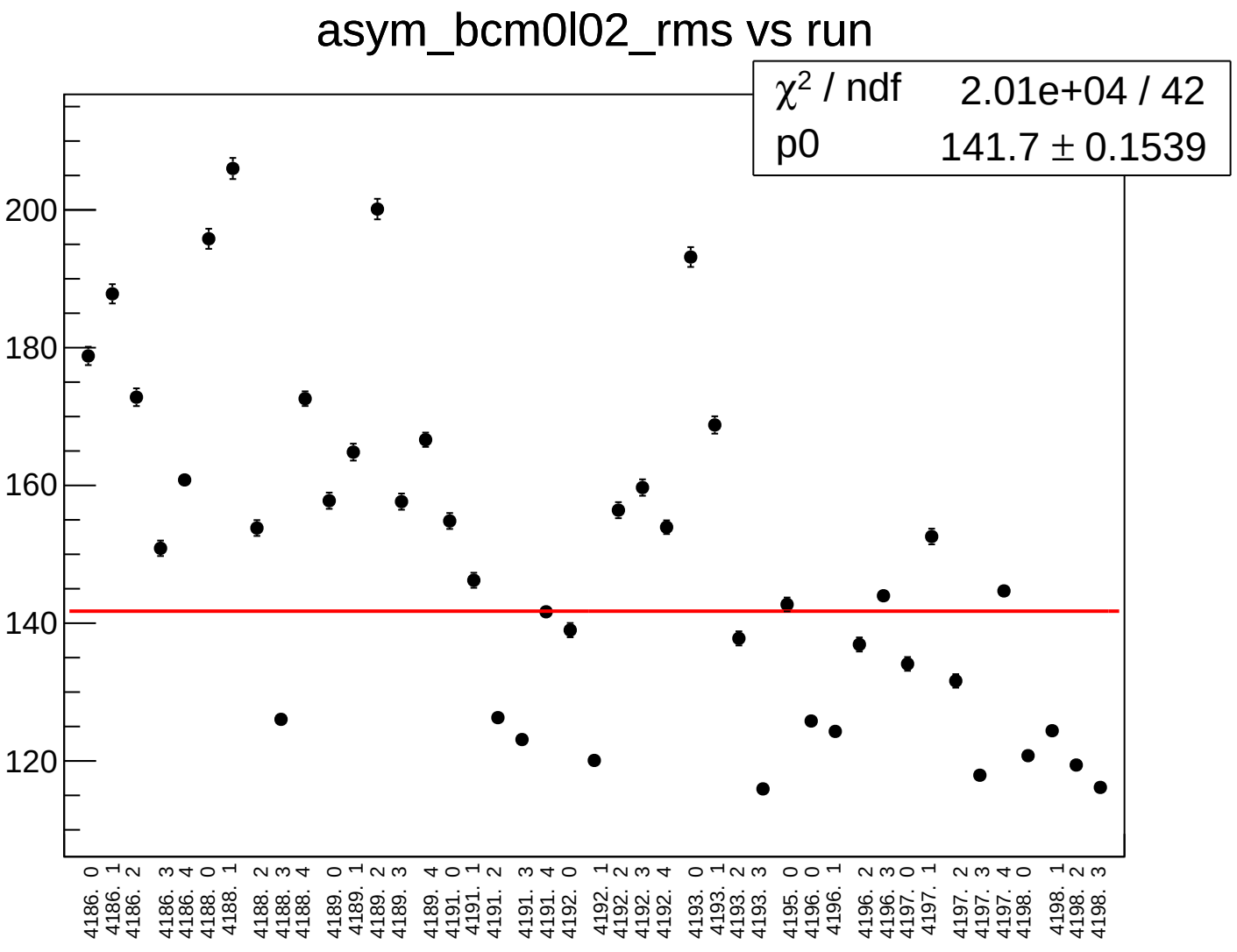

asym_cav4dQ_mean vs run
χ² / ndf 52.08 / 42
p0 −2.126 ± 1.378
pull
Entries 43
Mean 111.5
Std Dev 89.86

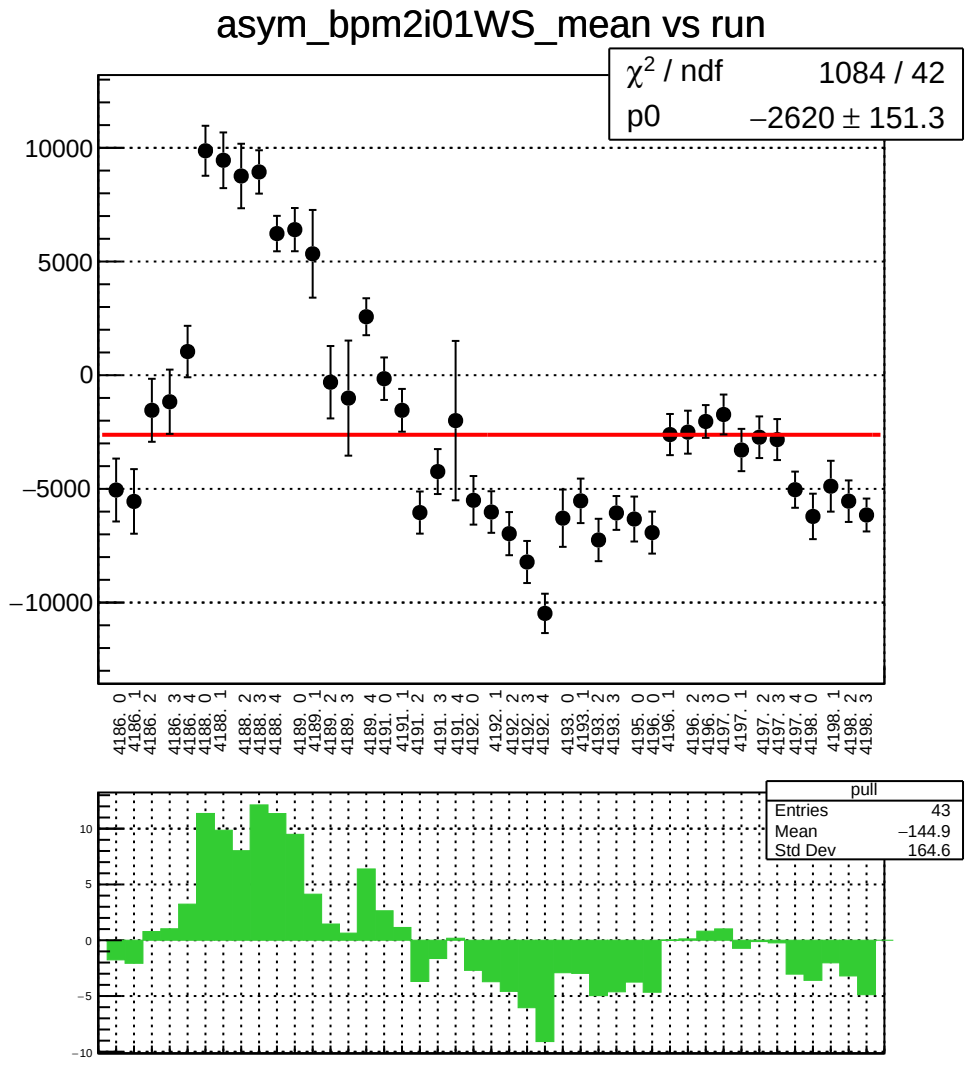

pull1D
Entries 43
Mean 0.01714
Std Dev 1.1

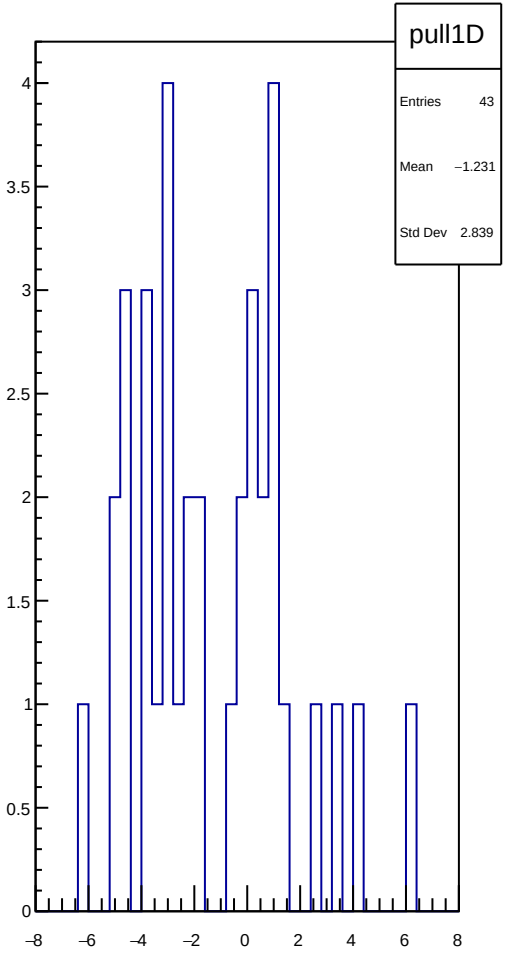

asym_cav4dQ_rms vs run
χ² / ndf 170.2 / 42
p0 0.9084 ± 0.0009747
0.95
0.94
0.93
0.92
0.91
0.9
0.89
0.88
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

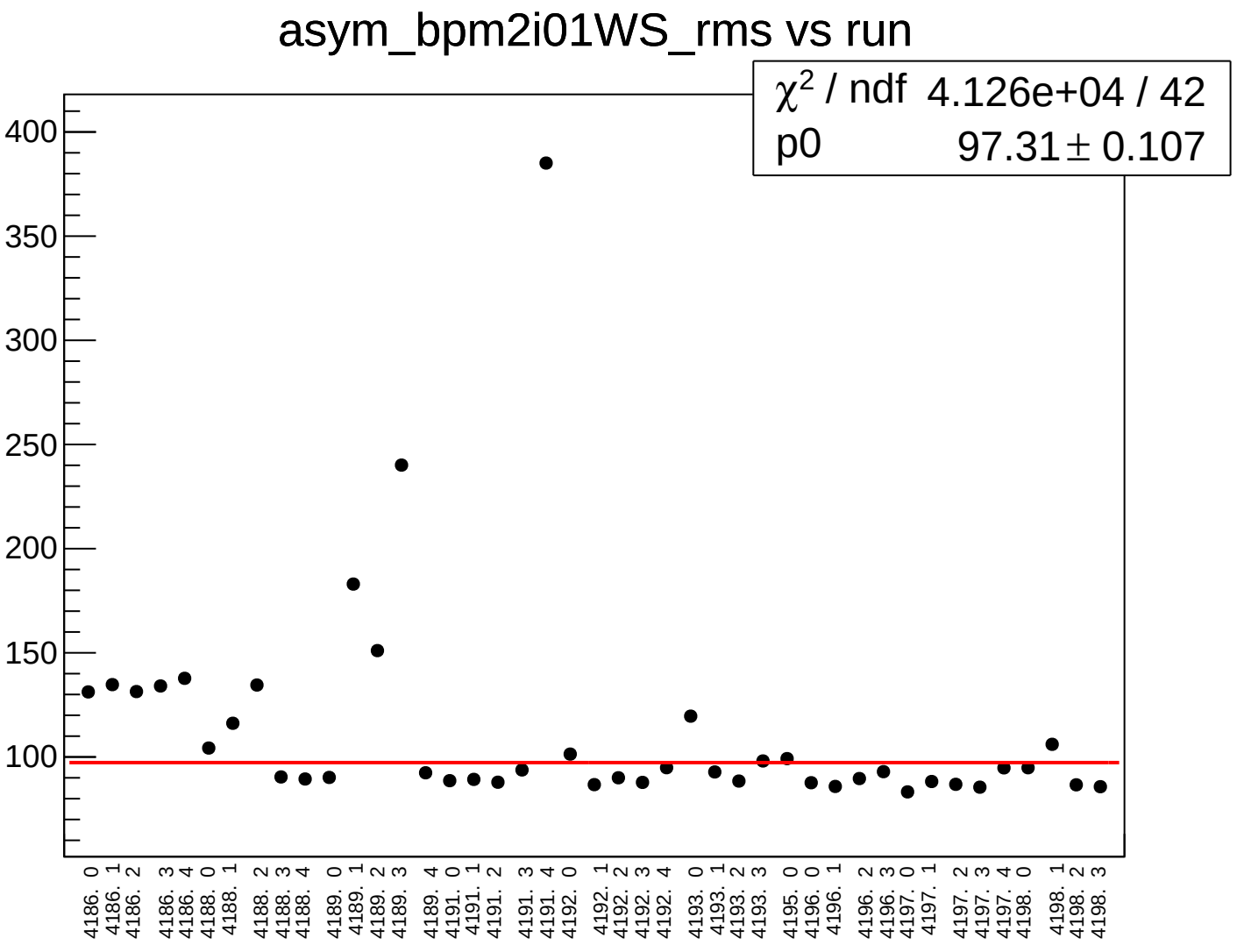

asym_bcm0l02_mean vs run
χ² / ndf 12.15 / 42
p0 39.9 ± 217.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −123.3
Std Dev 151
1
0.5
0
−0.5
−1

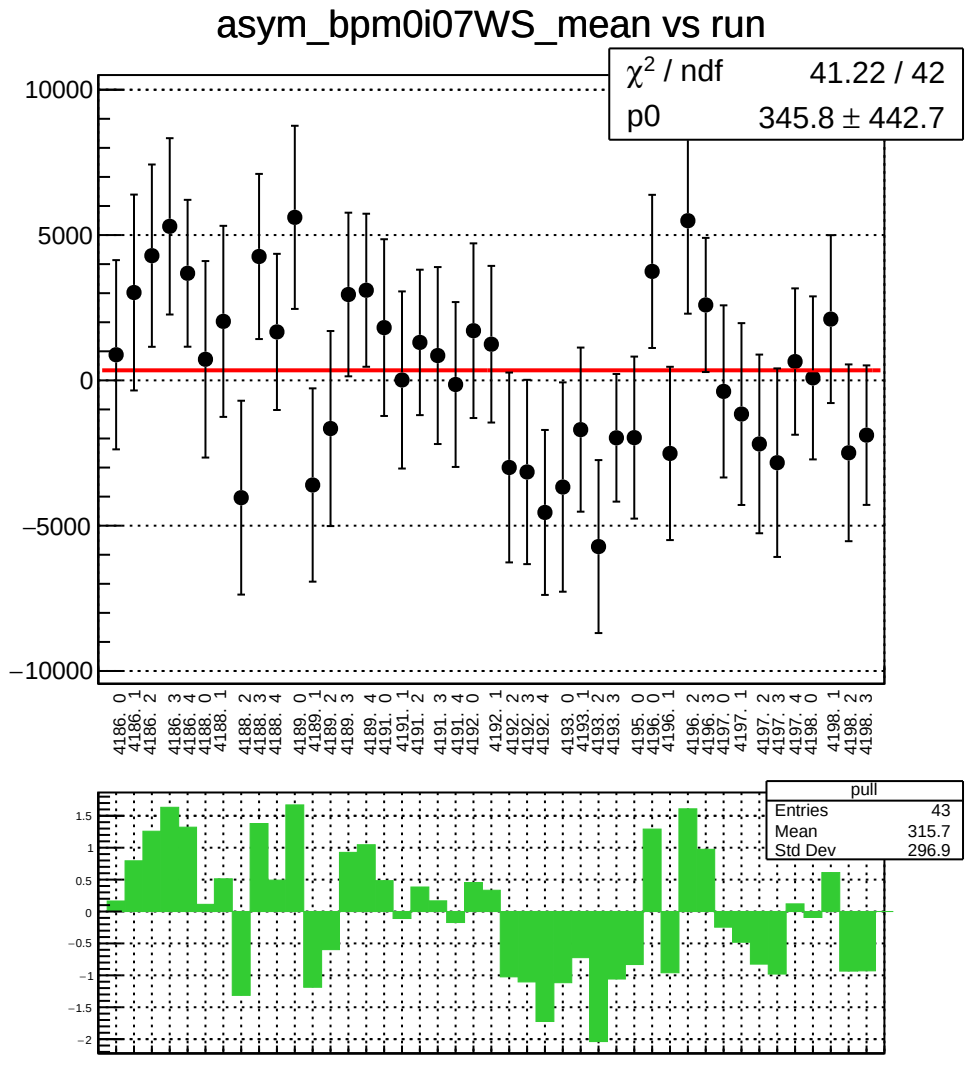

pull1D
Entries 43
Mean 0.007904
Std Dev 0.5314
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

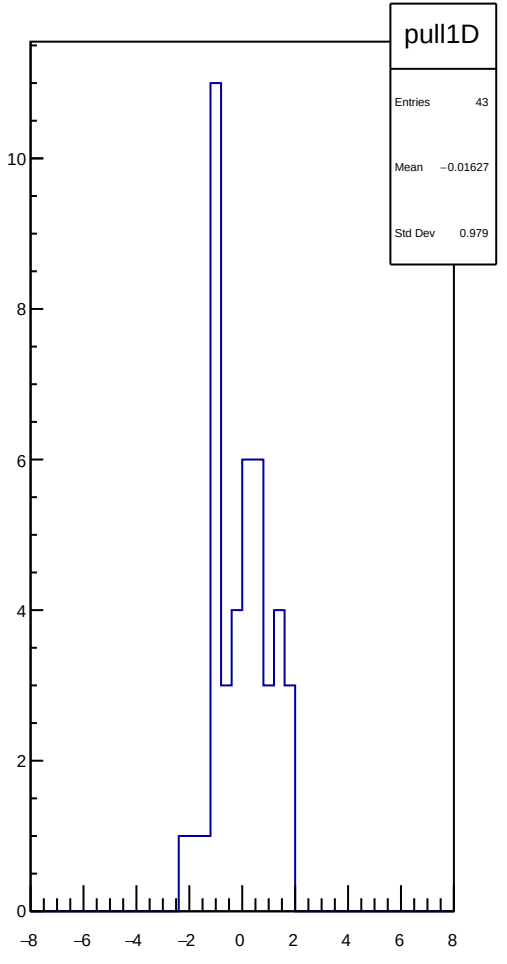

asym_bcm0l02_rms vs run
χ² / ndf 2.01e+04 / 42
p0 141.7 ± 0.1539
200
180
160
140
120
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

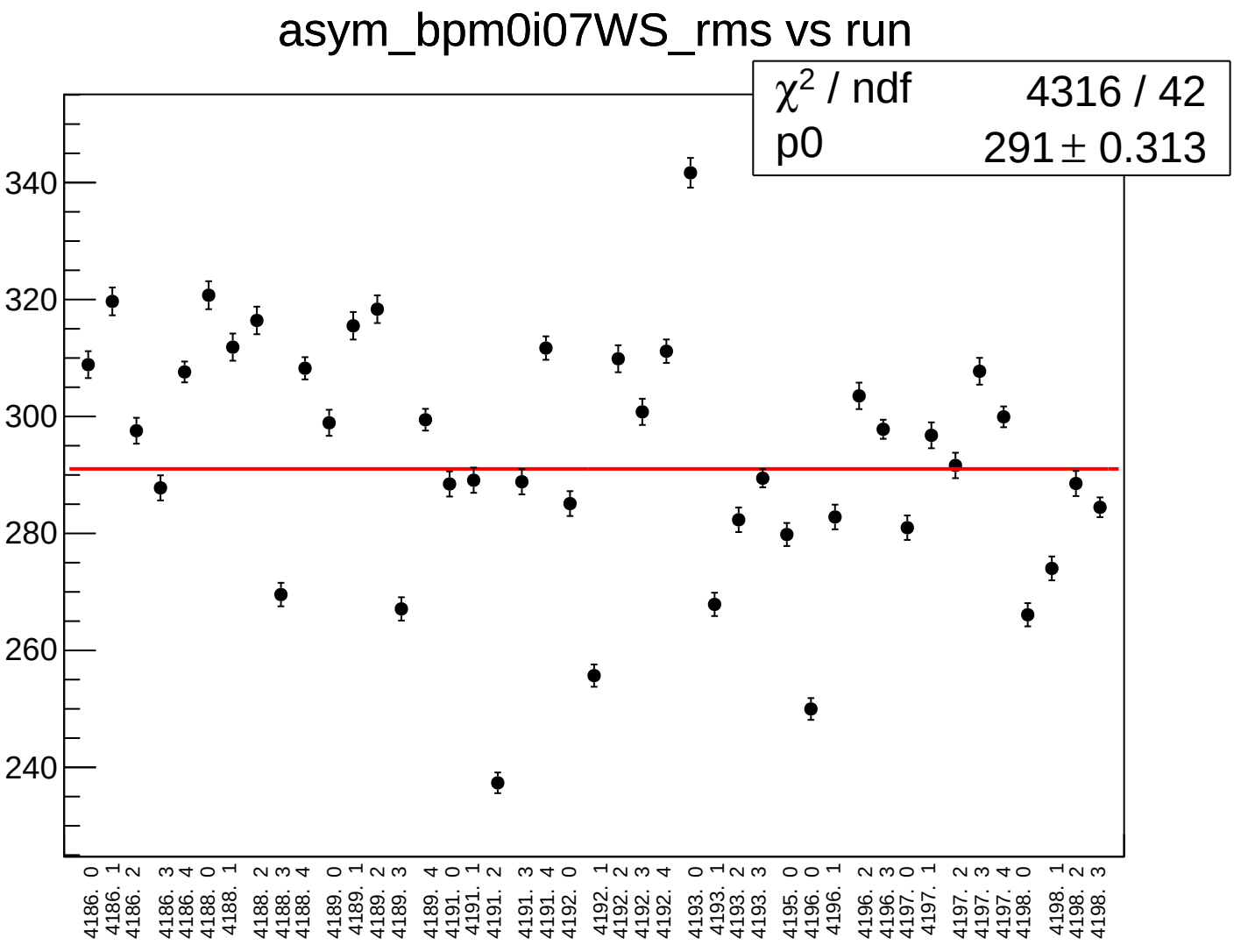

asym_bpm2i01WS_mean vs run
χ² / ndf 1084 / 42
p0 −2620 ± 151.3
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −144.9
Std Dev 164.6
10
5
0
−5
−10

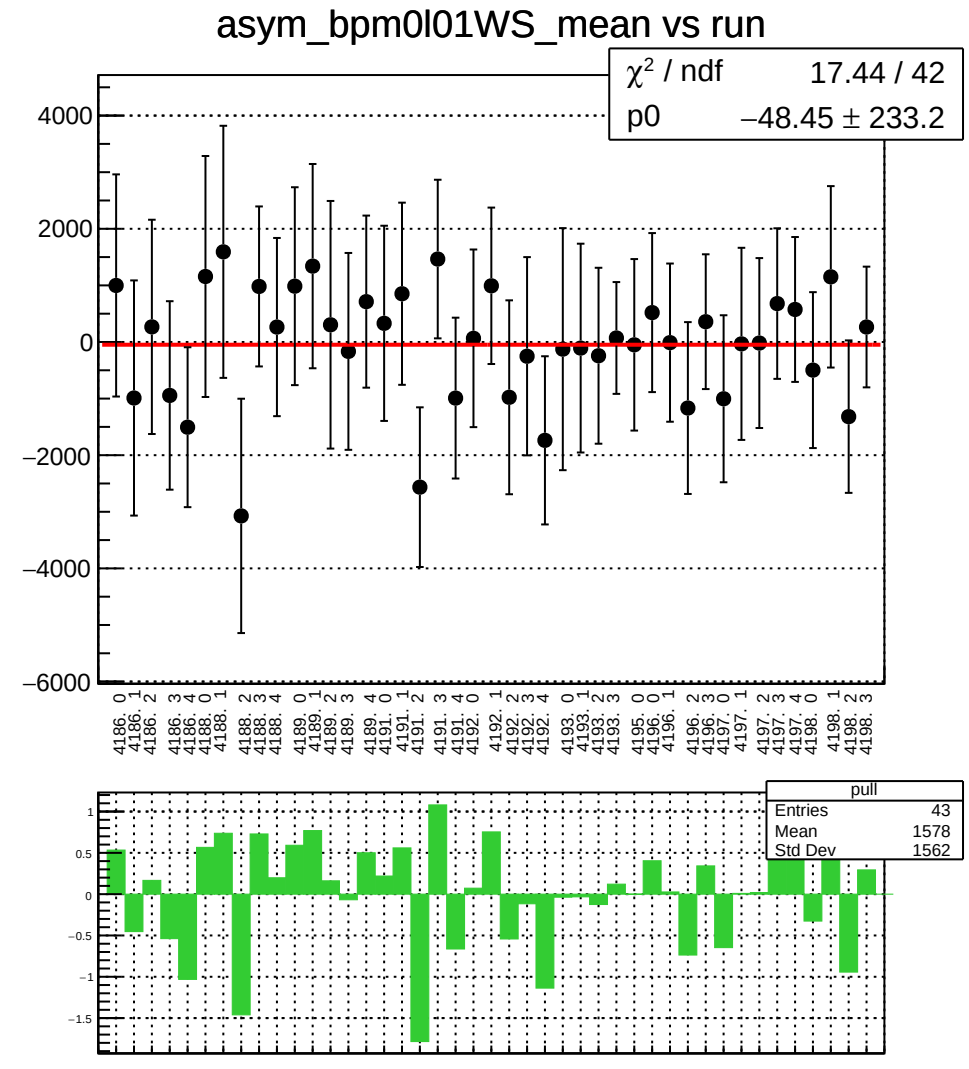

pull1D
Entries 43
Mean −1.231
Std Dev 2.839
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

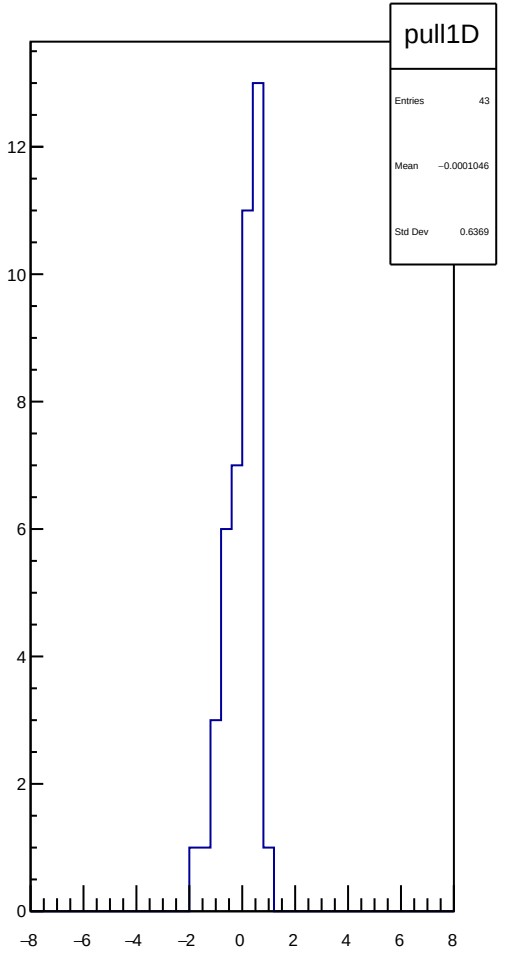

asym_bpm2i01WS_rms vs run
χ² / ndf 4.126e+04 / 42
p0 97.31 ± 0.107
400
350
300
250
200
150
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

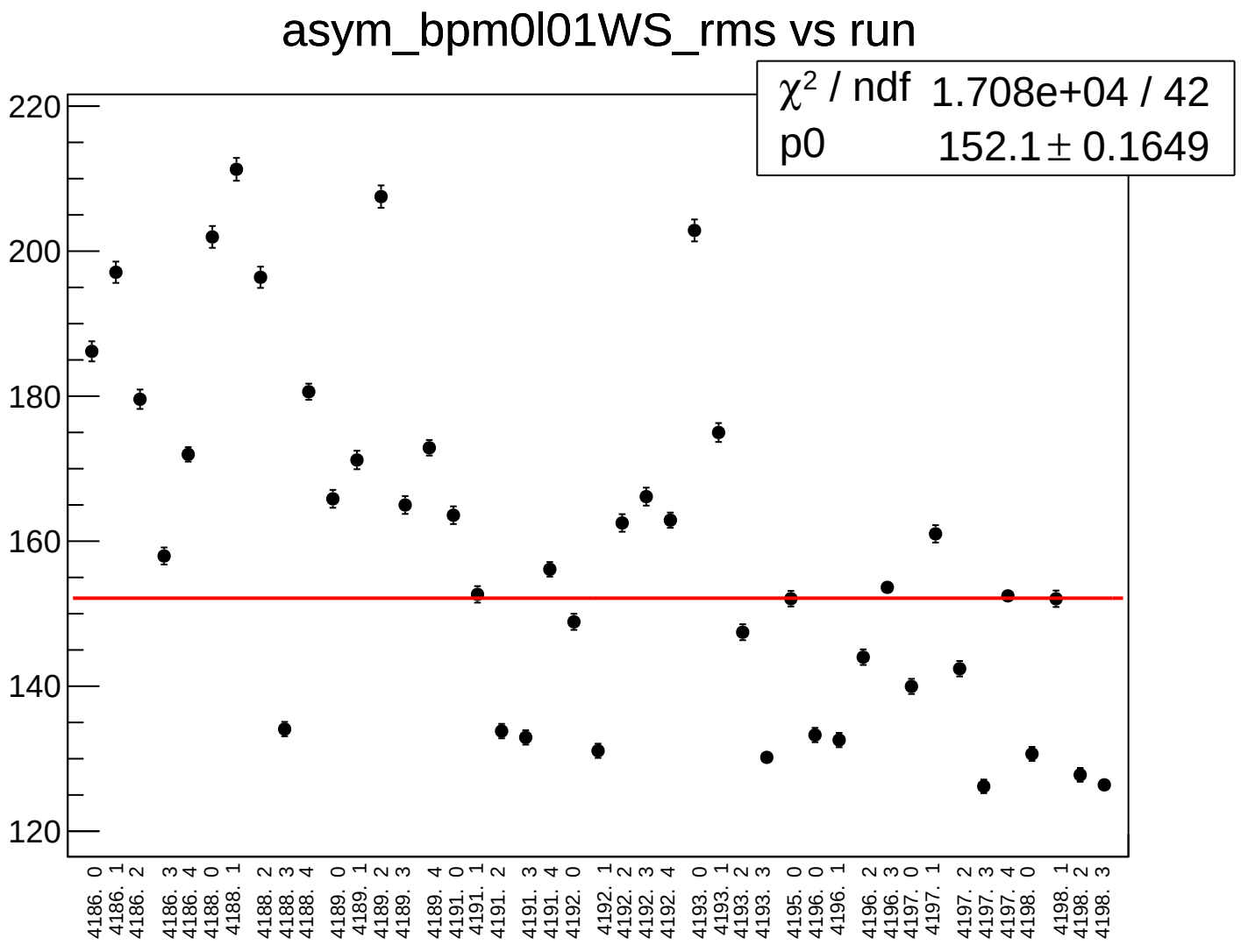

asym_bpm0i07WS_mean vs run
χ² / ndf 41.22 / 42
p0 345.8 ± 442.7
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 315.7
Std Dev 296.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

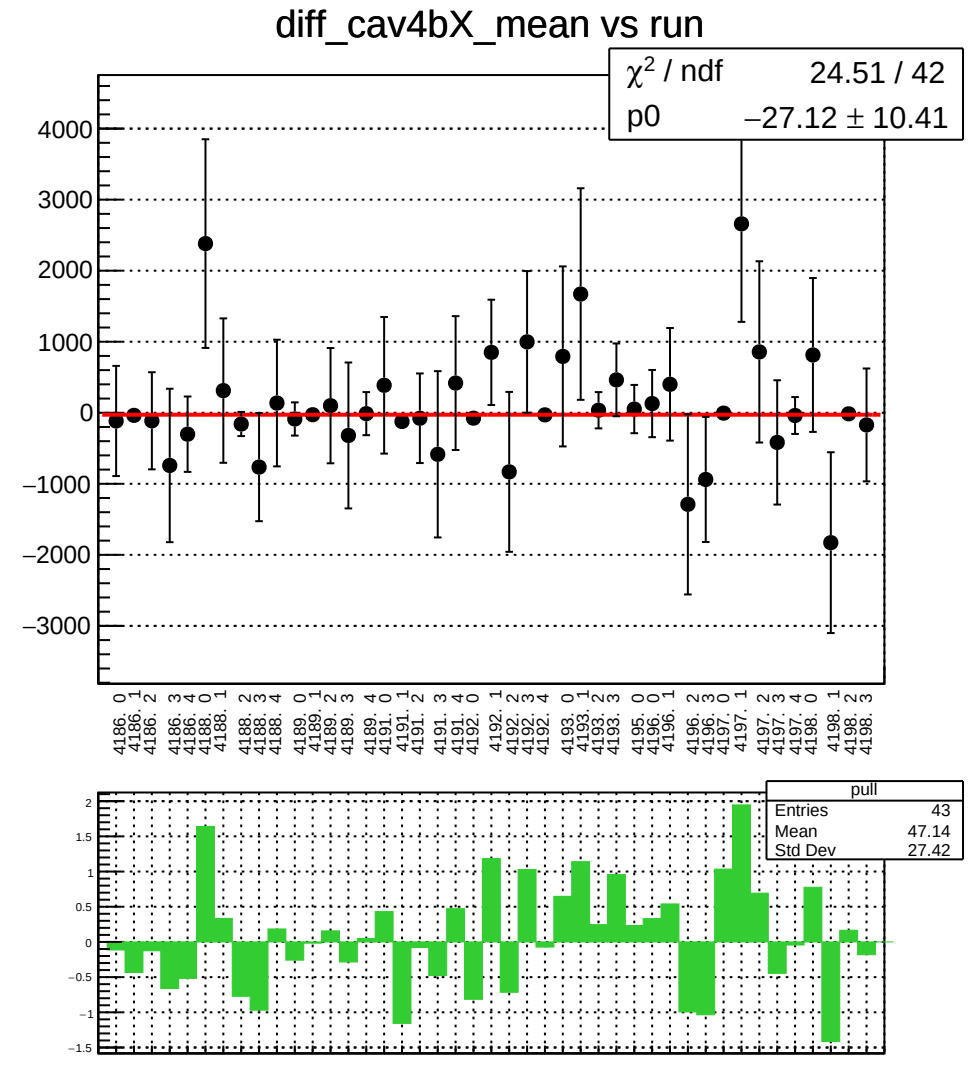

pull1D
Entries 43
Mean −0.01627
Std Dev 0.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

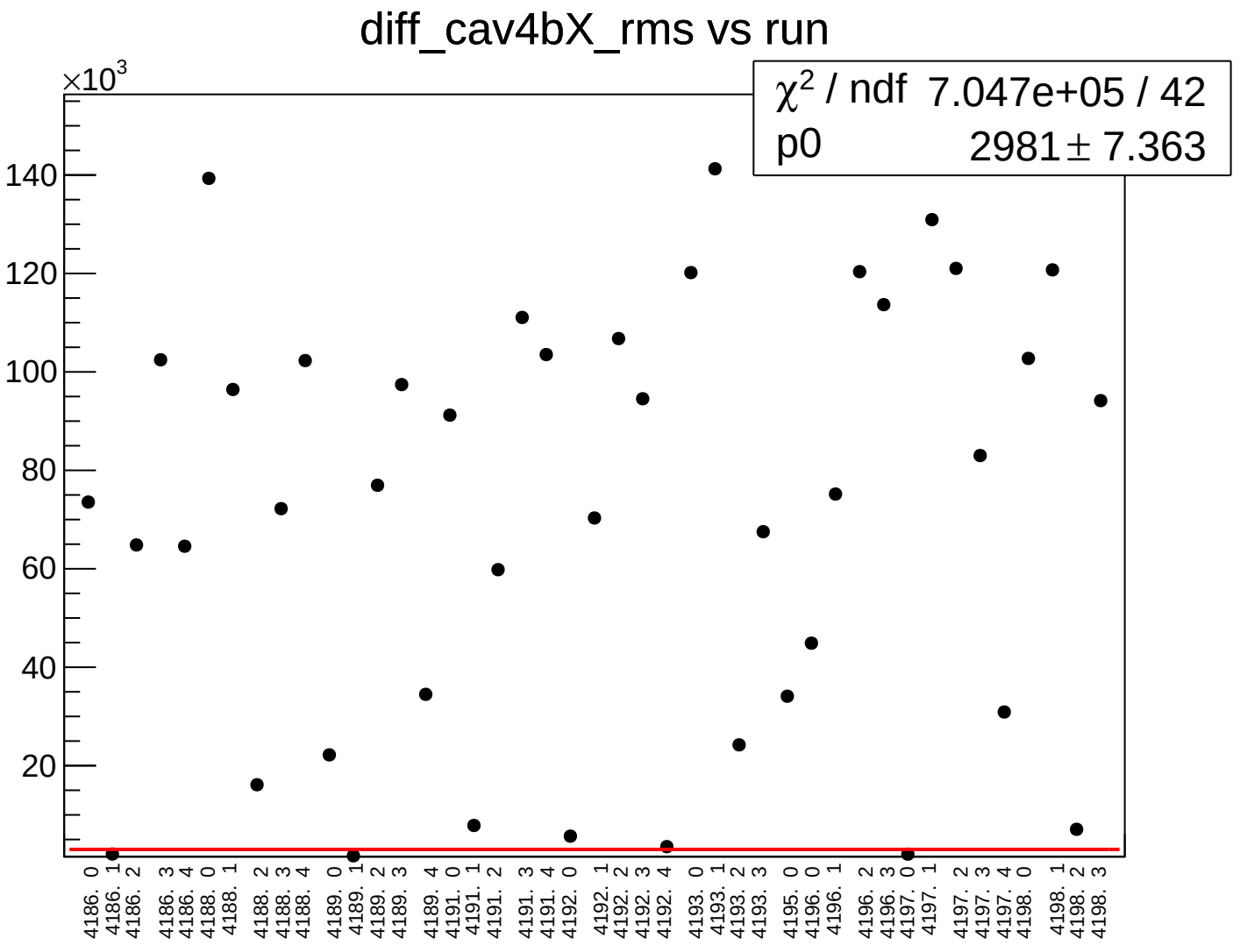

asym_bpm0i07WS_rms vs run
χ² / ndf 4316 / 42
p0 291 ± 0.313
340
320
300
280
260
240
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

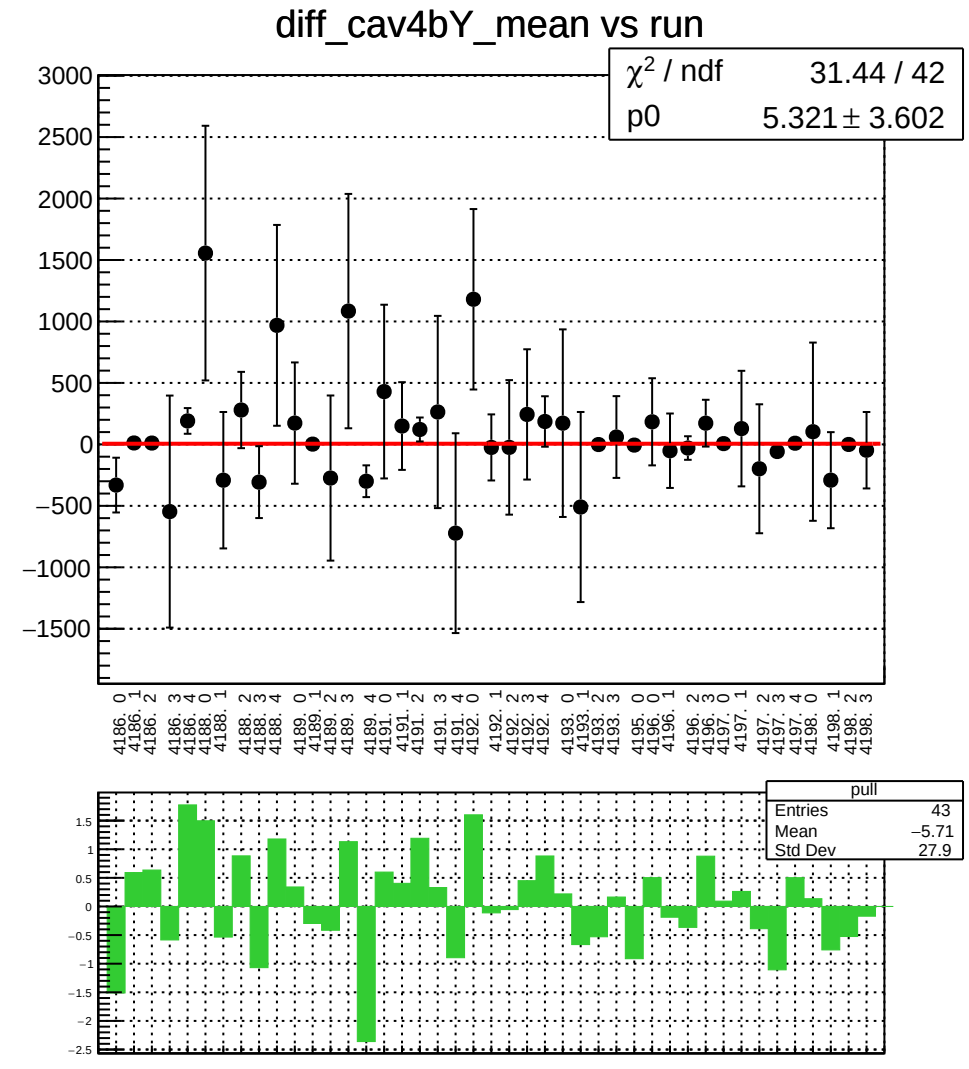

asym_bpm0l01WS_mean vs run
χ² / ndf 17.44 / 42
p0 −48.45 ± 233.2
4000
2000
0
−2000
−4000
−6000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1578
Std Dev 1562
1
0.5
0
−0.5
−1
−1.5

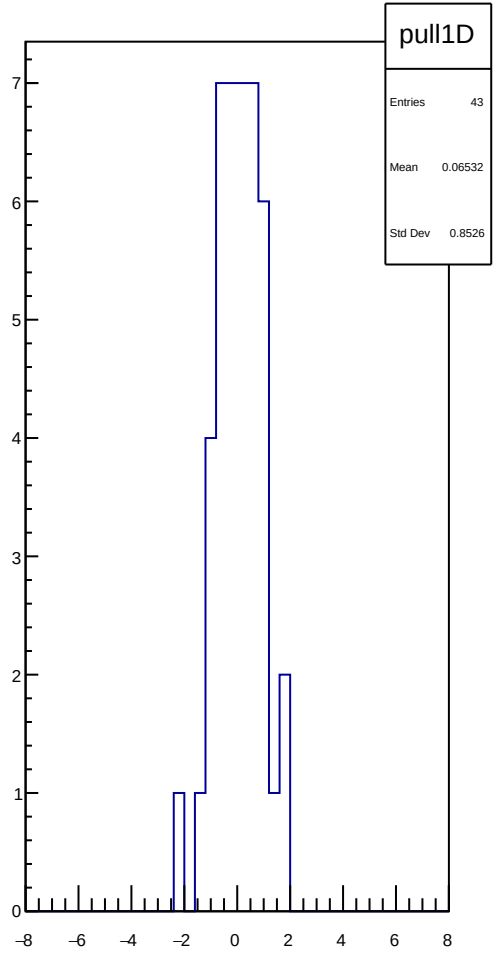

pull1D
Entries 43
Mean −0.0001046
Std Dev 0.6369
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

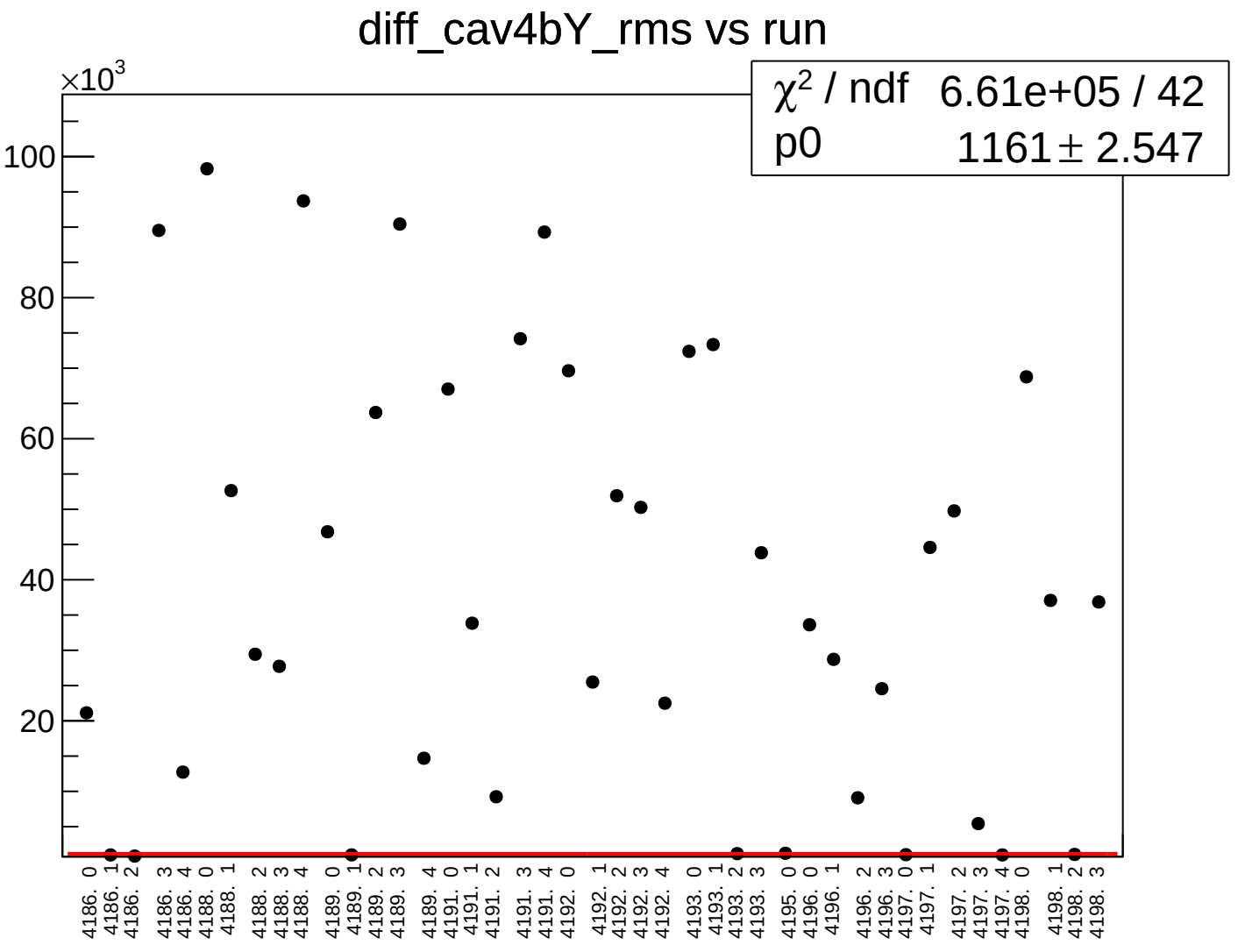

asym_bpm0l01WS_rms vs run
χ² / ndf 1.708e+04 / 42
p0 152.1 ± 0.1649
220
200
180
160
140
120
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

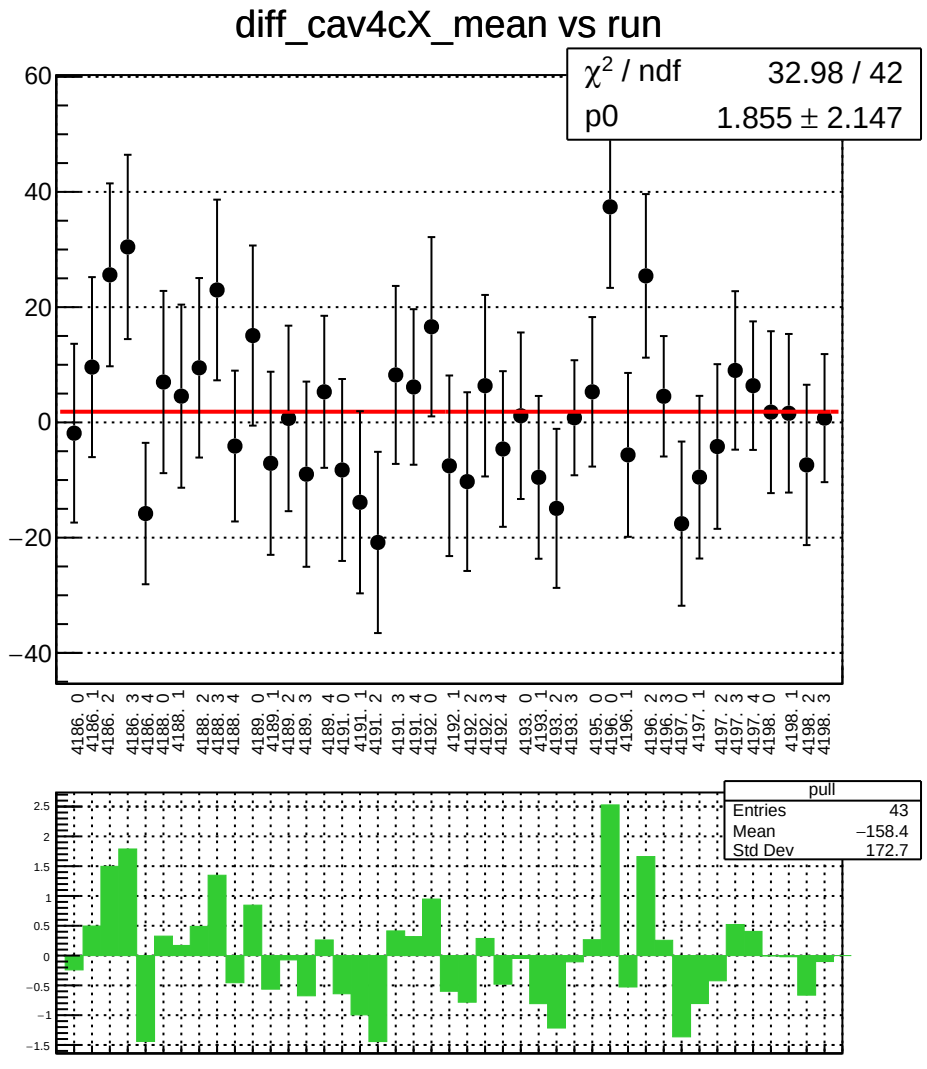

diff_cav4bX_mean vs run
χ² / ndf 24.51 / 42
p0 −27.12 ± 10.41
4000
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 47.14
Std Dev 27.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06057
Std Dev 0.7525
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

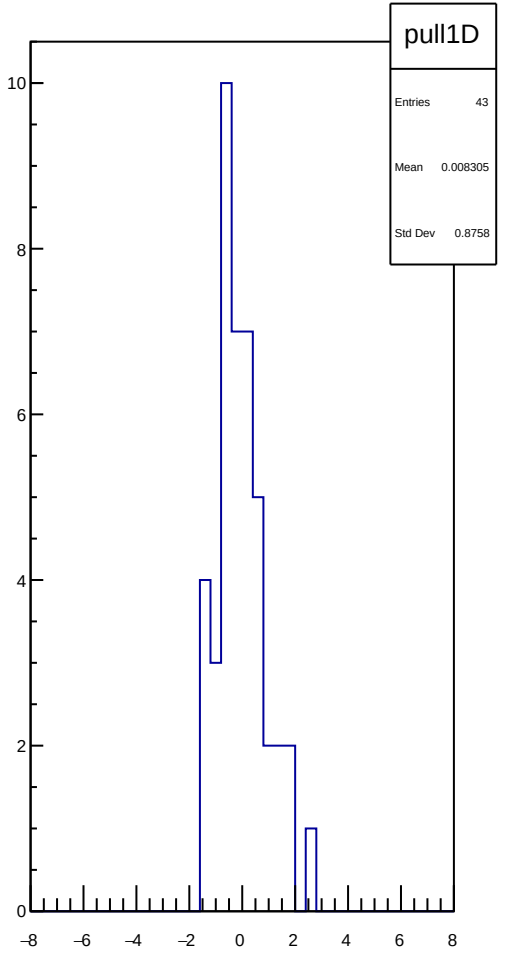

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 7.047e+05 / 42
p0 2981 ± 7.363
140
120
100
80
60
40
20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

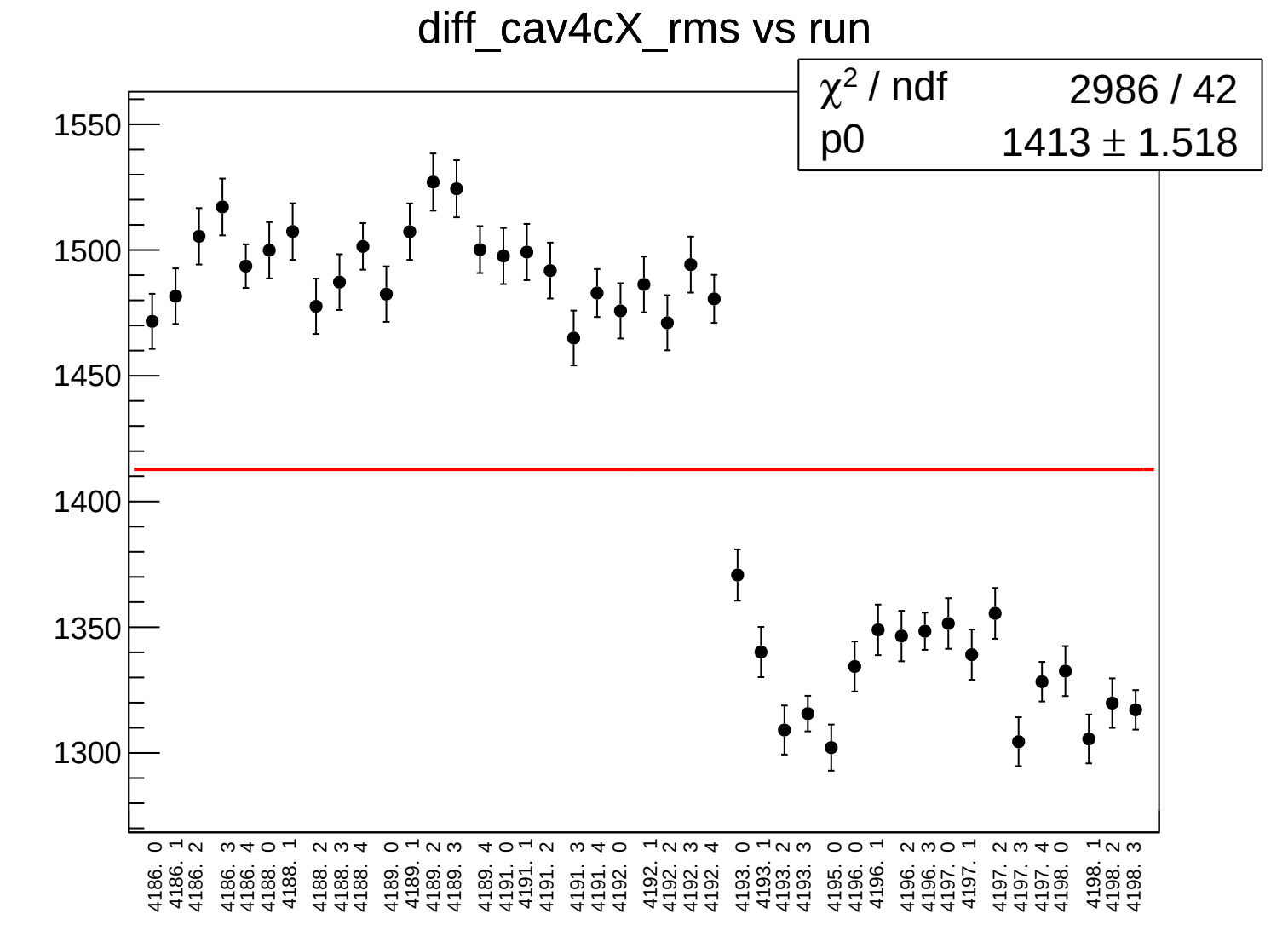

diff_cav4bY_mean vs run
χ² / ndf 31.44 / 42
p0 5.321 ± 3.602
pull
Entries 43
Mean −5.71
Std Dev 27.9

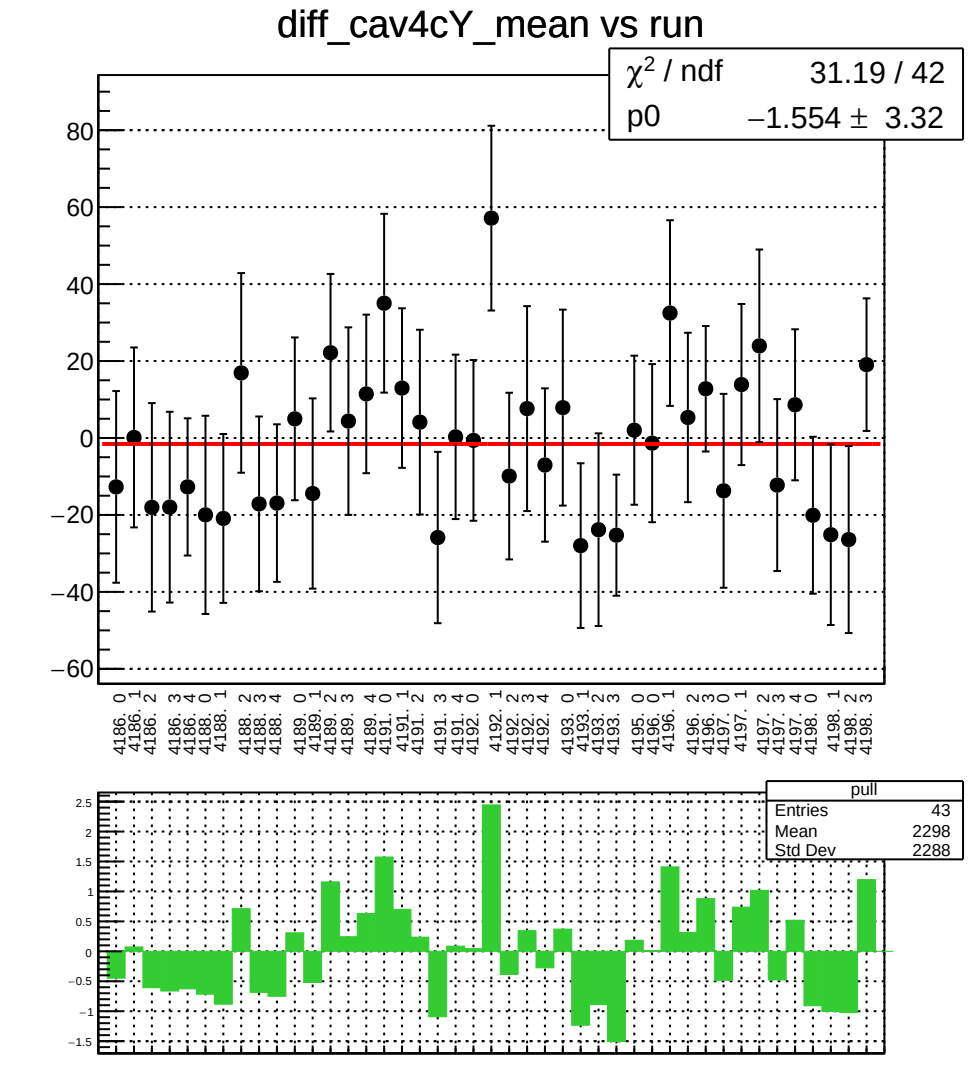

pull1D
Entries 43
Mean 0.06532
Std Dev 0.8526

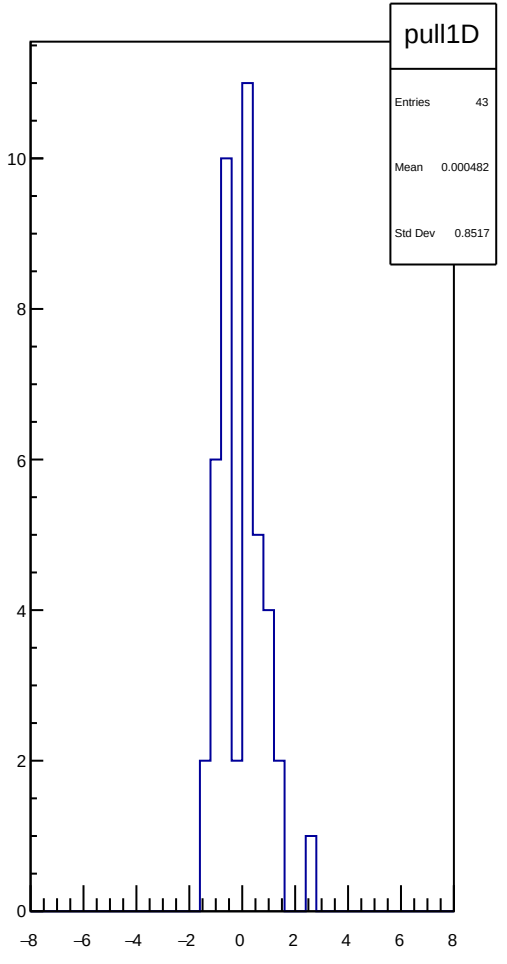

diff_cav4bY_rms vs run
×10^3
χ² / ndf 6.61e+05 / 42
p0 1161 ± 2.547
100
80
60
40
20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

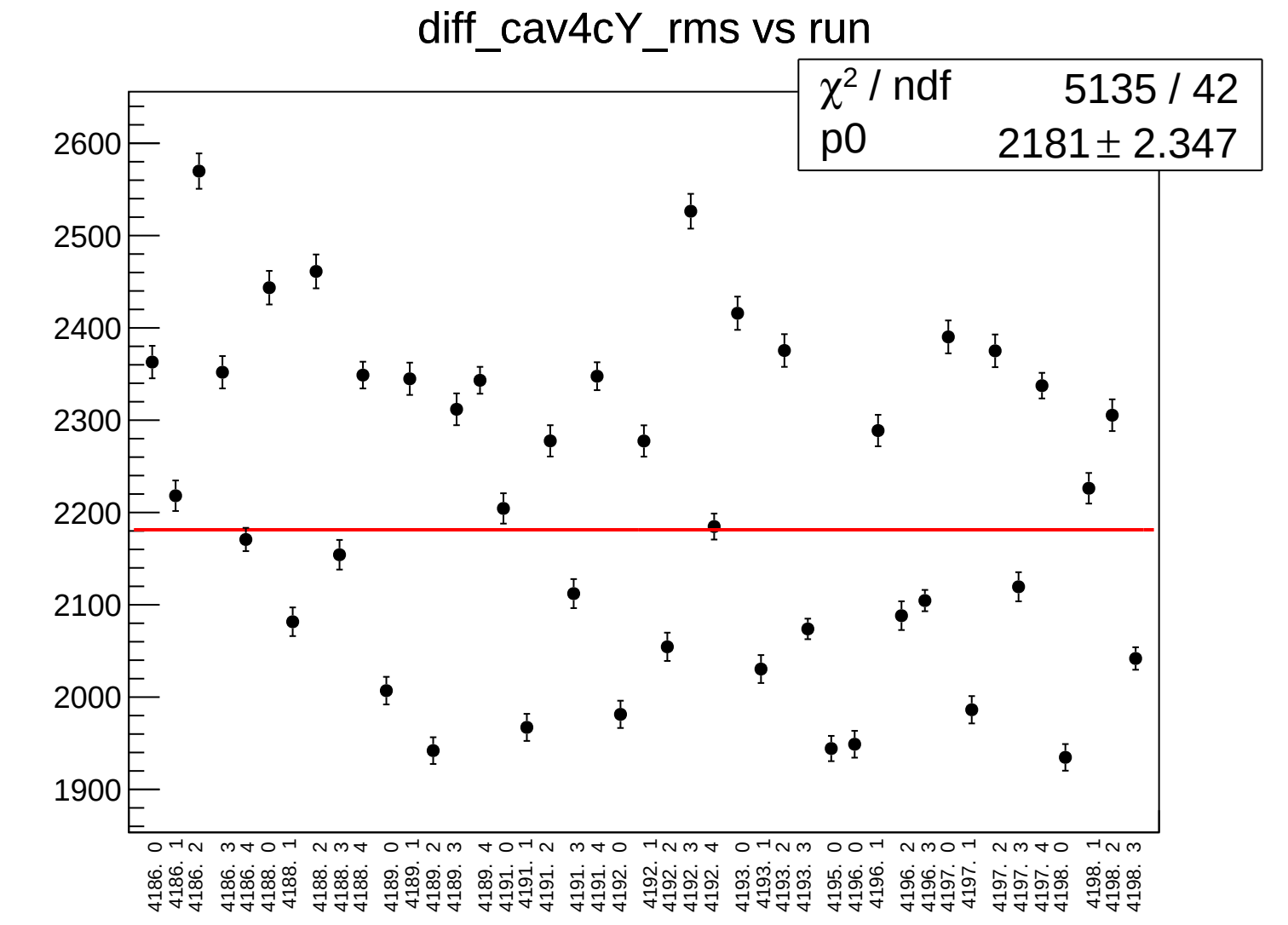

diff_cav4cX_mean vs run
χ^2 / ndf 32.98 / 42
p0 1.855 ± 2.147
pull
Entries 43
Mean −158.4
Std Dev 172.7

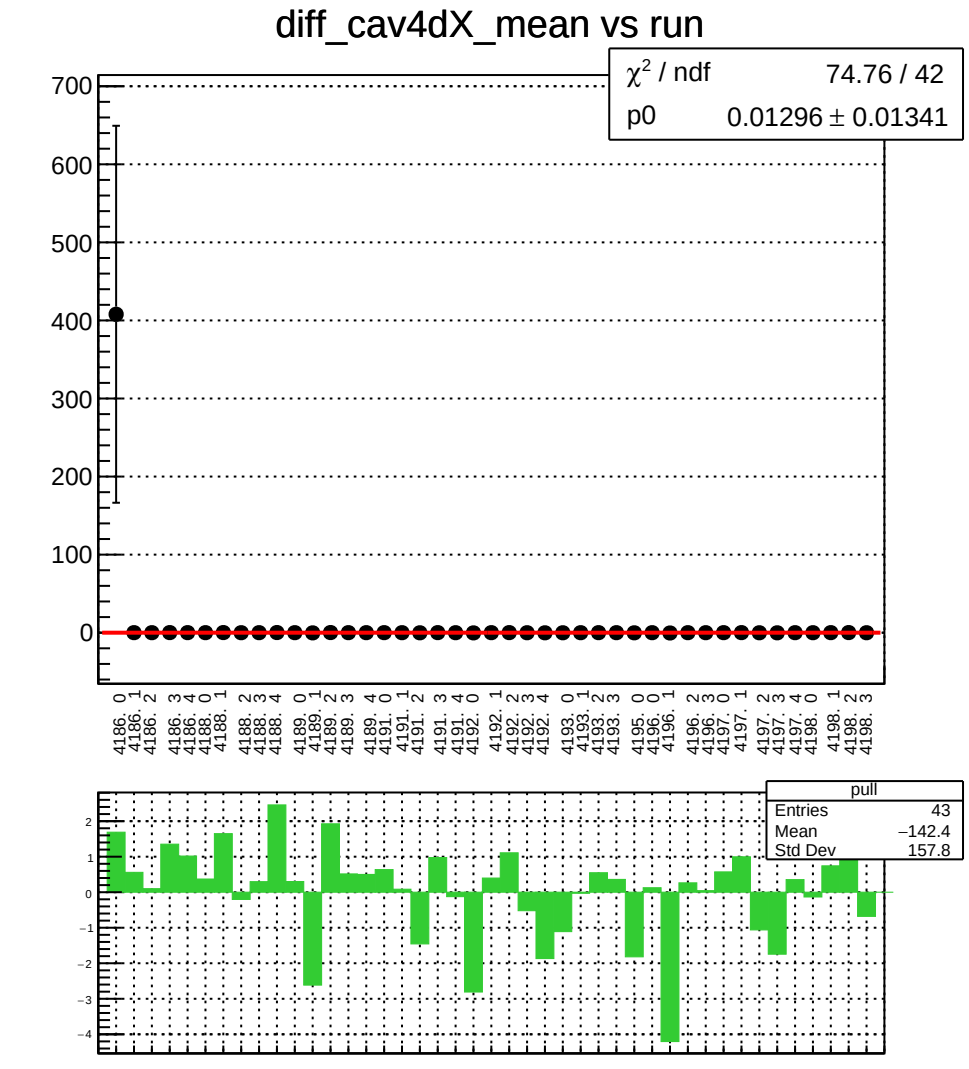

pull1D
Entries 43
Mean 0.008305
Std Dev 0.8758

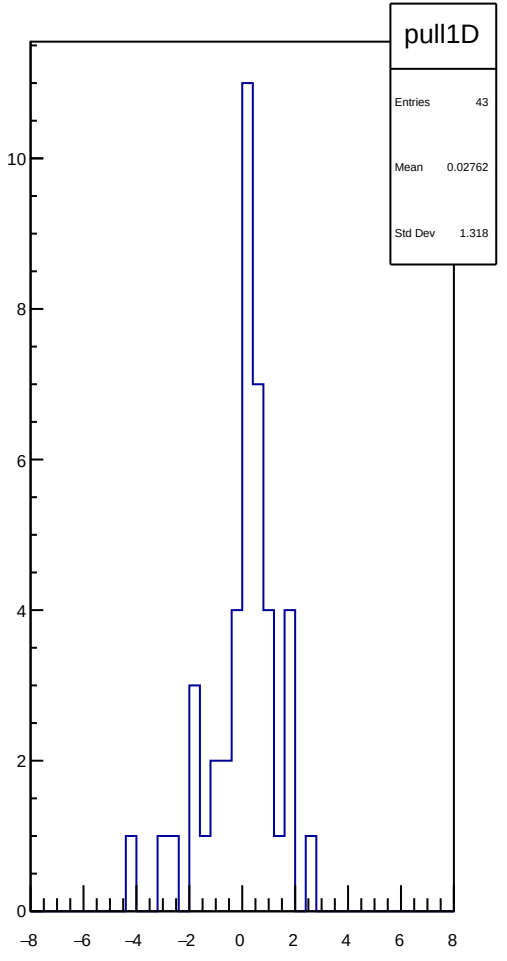

diff_cav4cX_rms vs run
χ² / ndf 2986 / 42
p0 1413 ± 1.518
1550
1500
1450
1400
1350
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

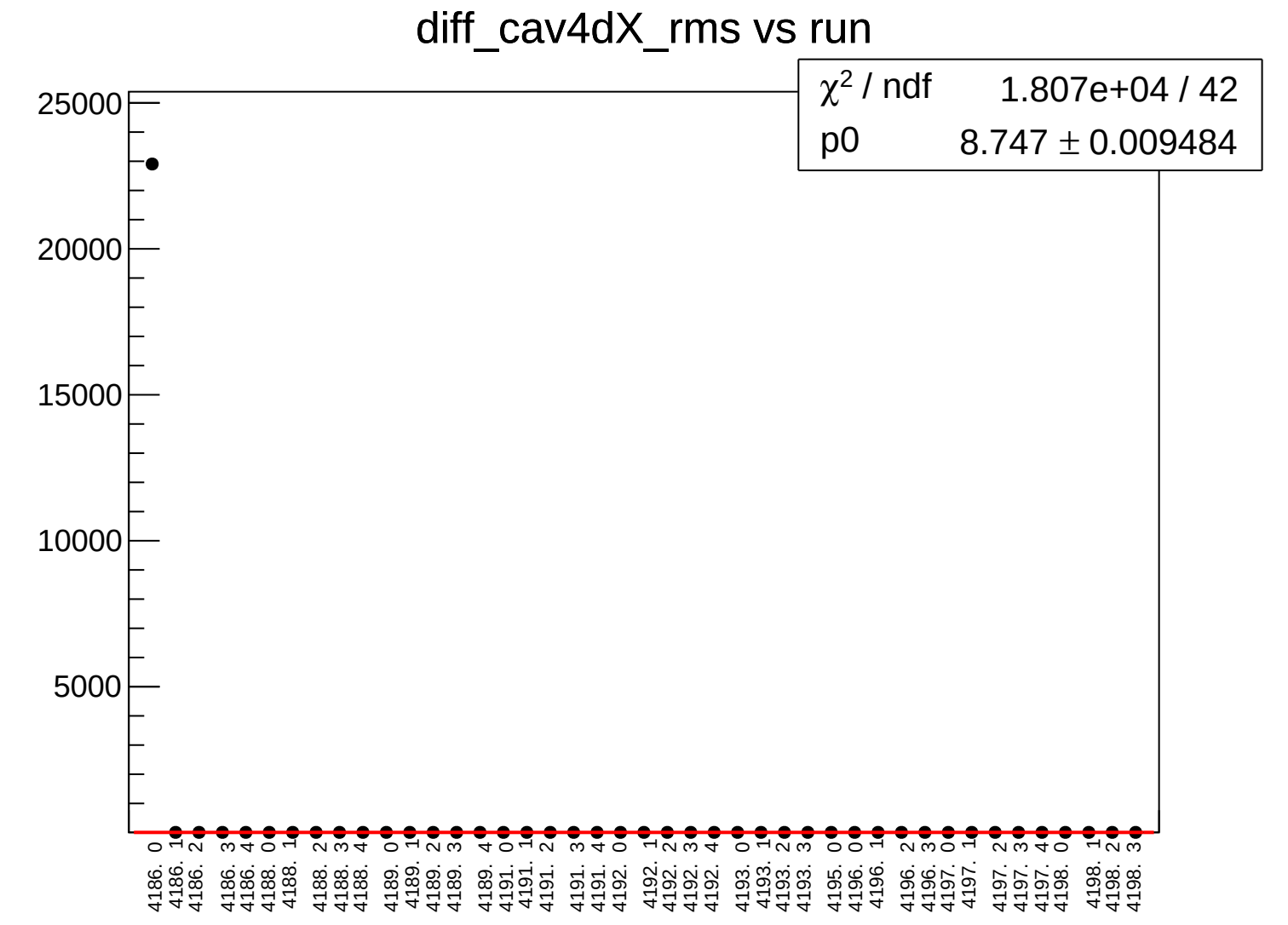

diff_cav4cY_mean vs run
χ² / ndf 31.19 / 42
p0 −1.554 ± 3.32
80
60
40
20
0
−20
−40
−60
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 2298
Std Dev 2288
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

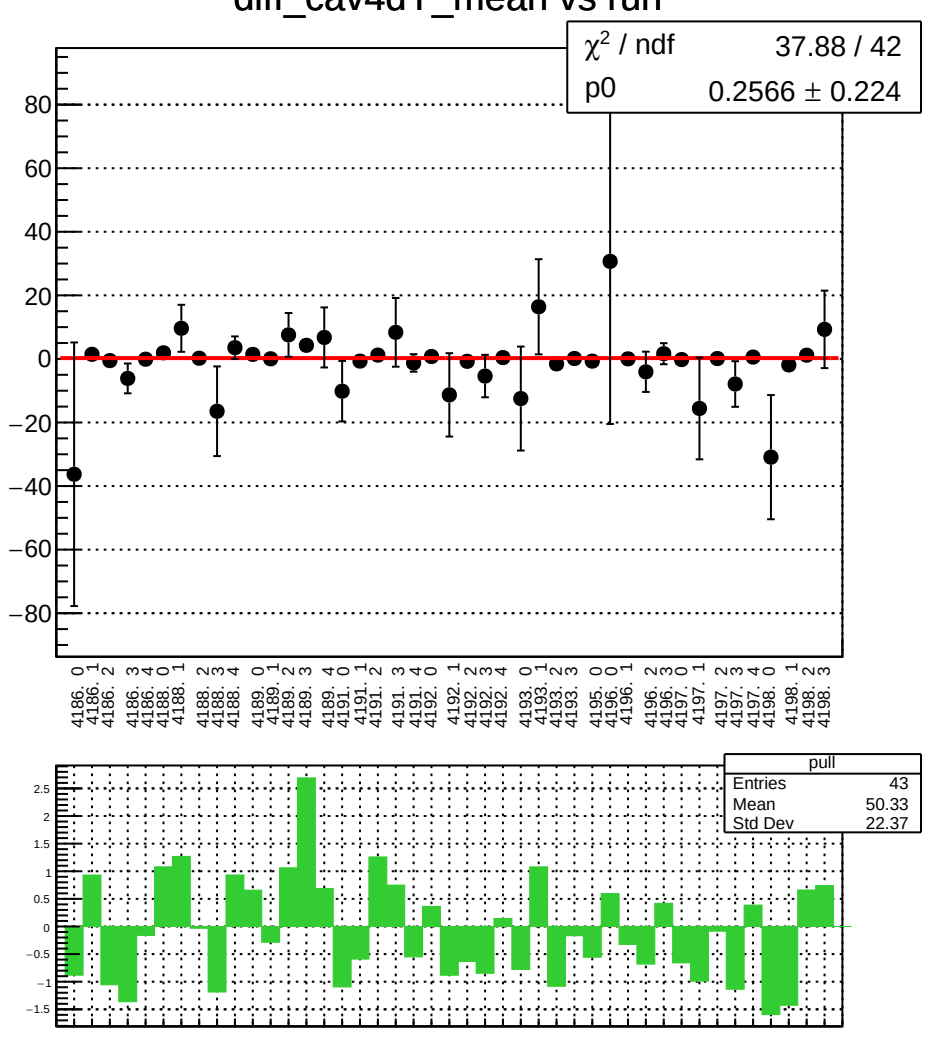

pull1D
Entries 43
Mean 0.000482
Std Dev 0.8517
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

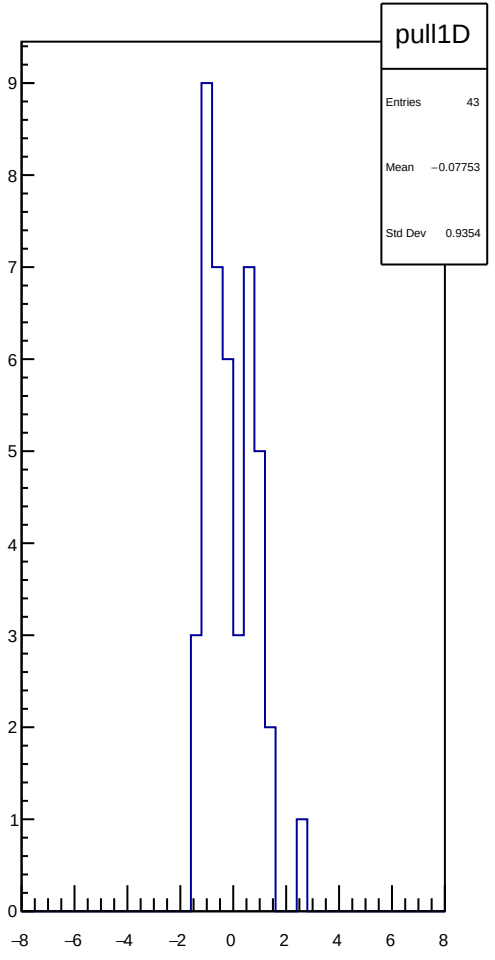

diff_cav4cY_rms vs run
χ² / ndf 5135 / 42
p0 2181 ± 2.347
2600
2500
2400
2300
2200
2100
2000
1900
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

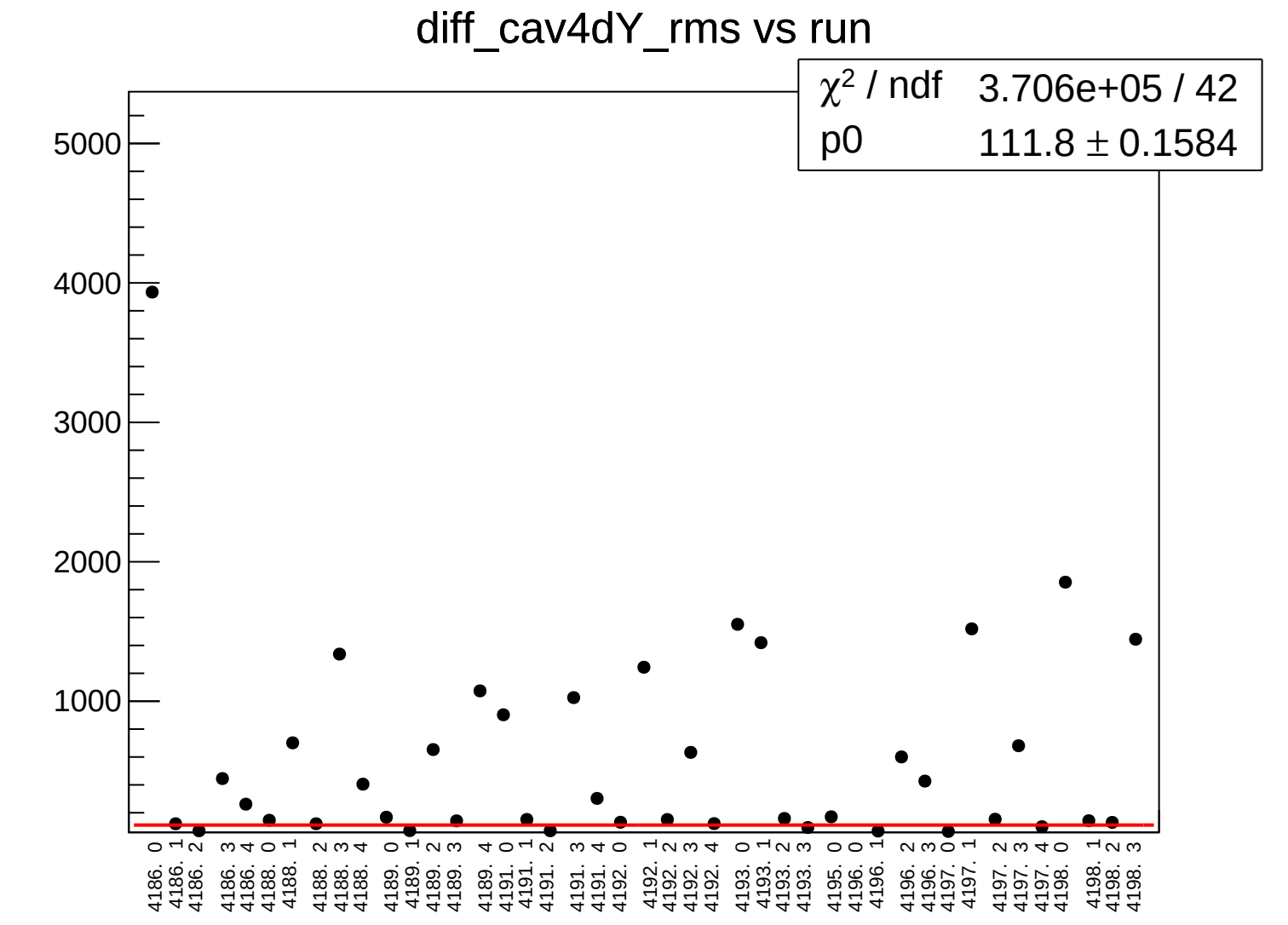

diff_cav4dX_mean vs run
χ² / ndf 74.76 / 42
p0 0.01296 ± 0.01341
700
600
500
400
300
200
100
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −142.4
Std Dev 157.8
2
1
0
−1
−2
−3
−4

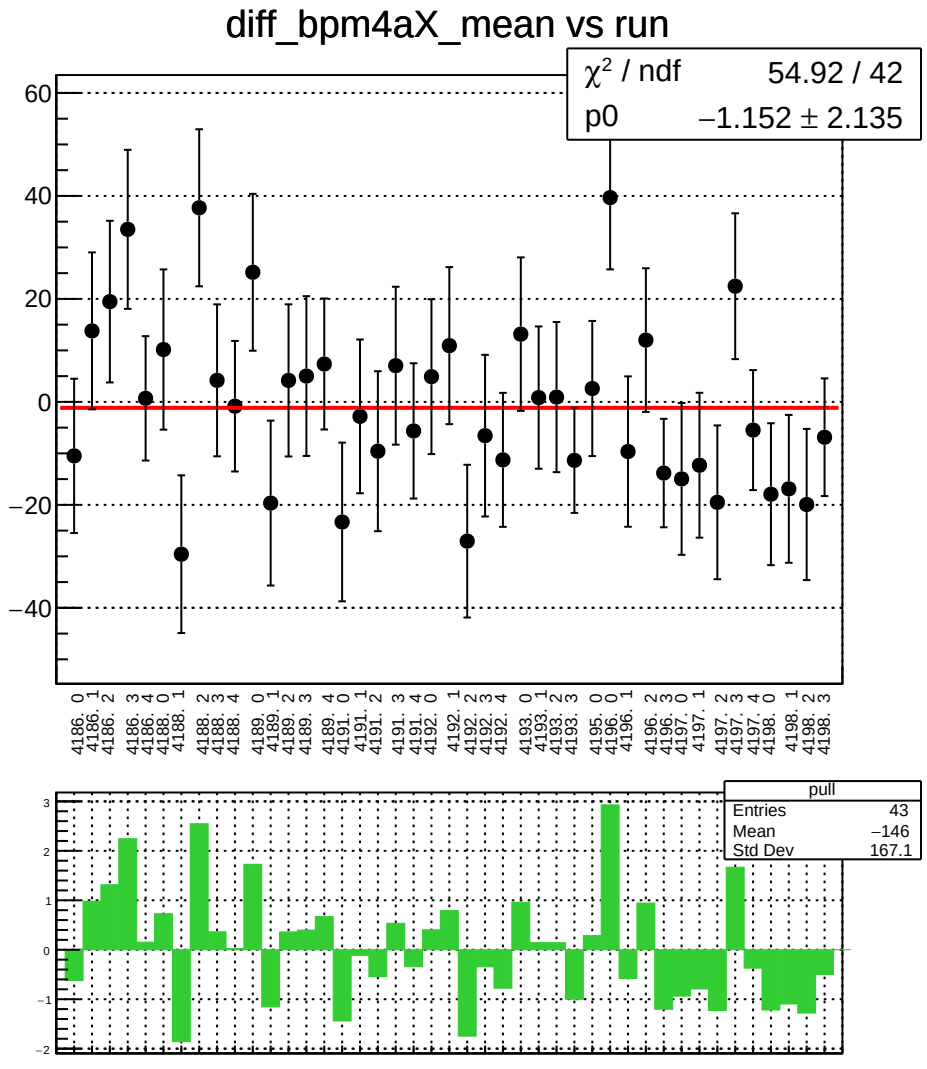

pull1D
Entries 43
Mean 0.02762
Std Dev 1.318
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

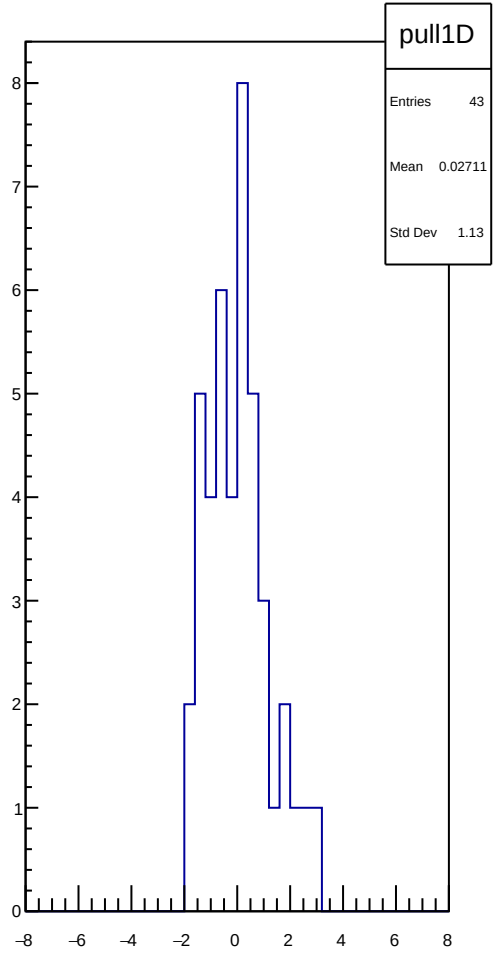

diff_cav4dX_rms vs run
χ^2 / ndf 1.807e+04 / 42
p0 8.747 ± 0.009484
25000
20000
15000
10000
5000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

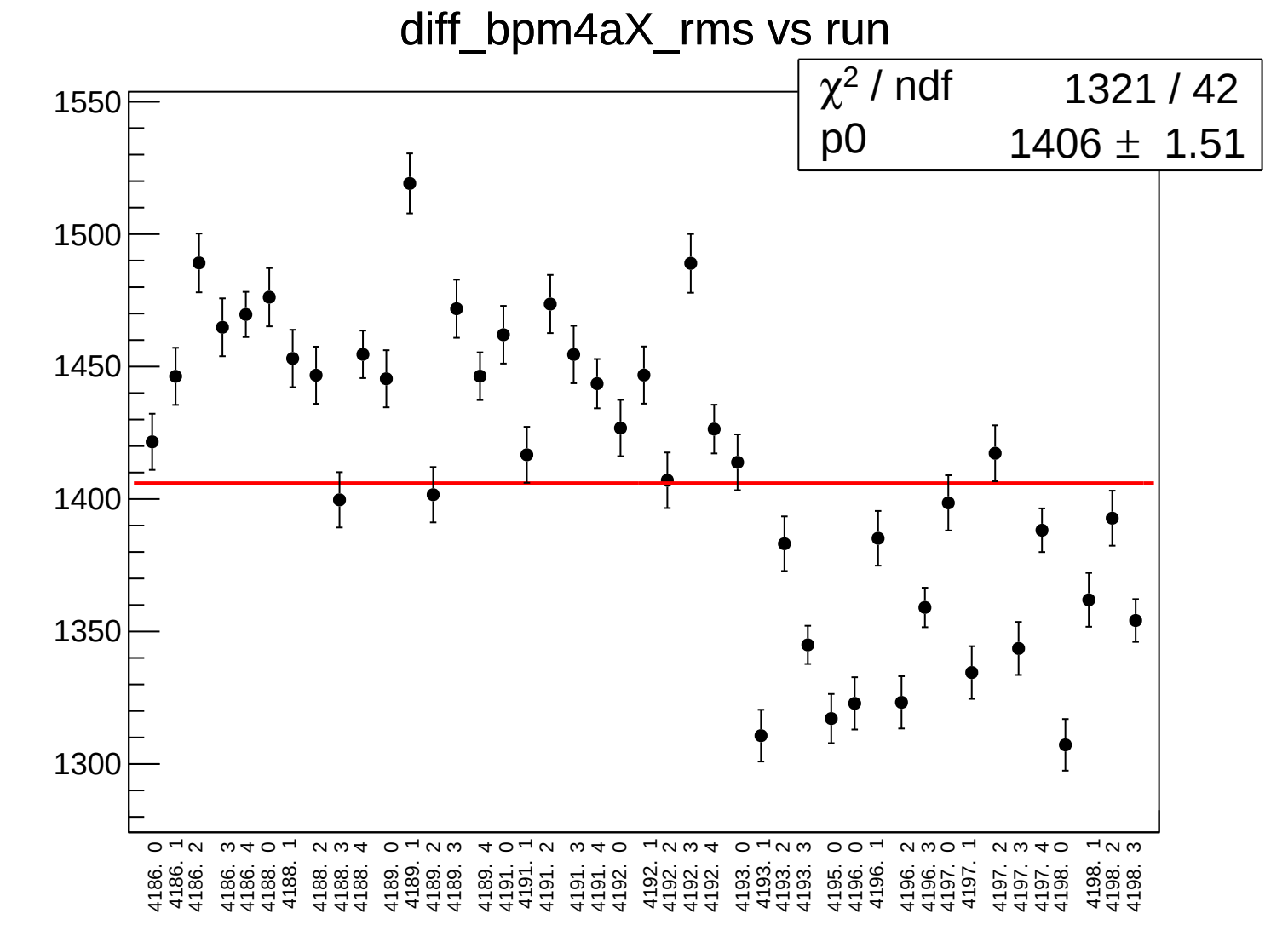

diff_cav4dY_mean vs run
χ² / ndf 37.88 / 42
p0 0.2566 ± 0.224
pull
Entries 43
Mean 50.33
Std Dev 22.37

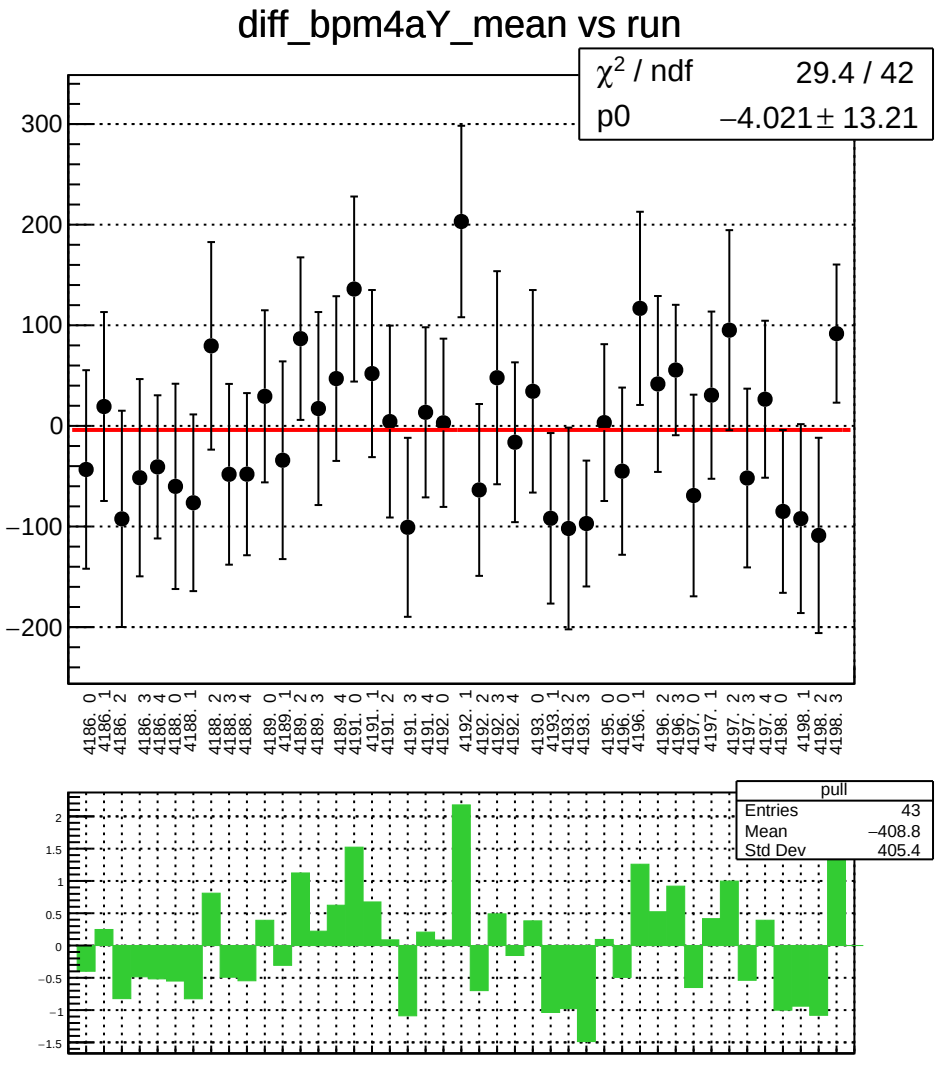

pull1D
Entries 43
Mean −0.07753
Std Dev 0.9354

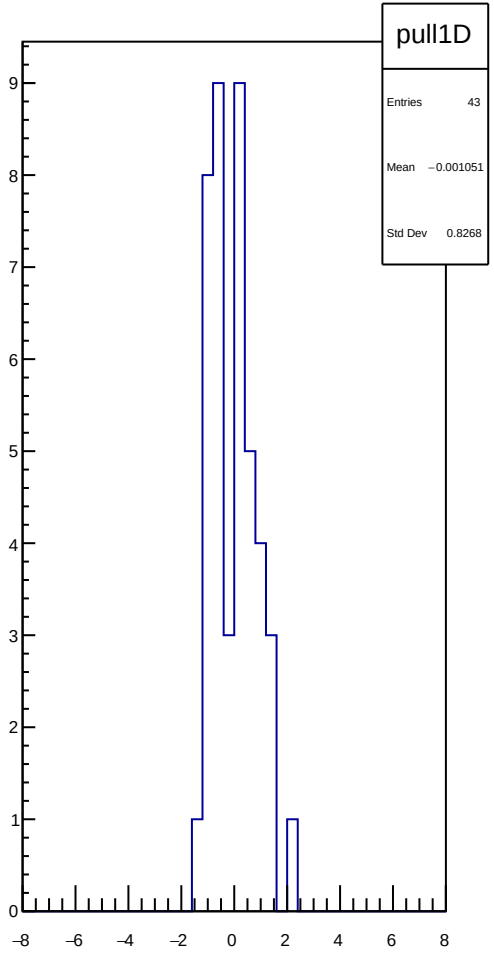

diff_cav4dY_rms vs run
χ² / ndf 3.706e+05 / 42
p0 111.8 ± 0.1584
5000
4000
3000
2000
1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

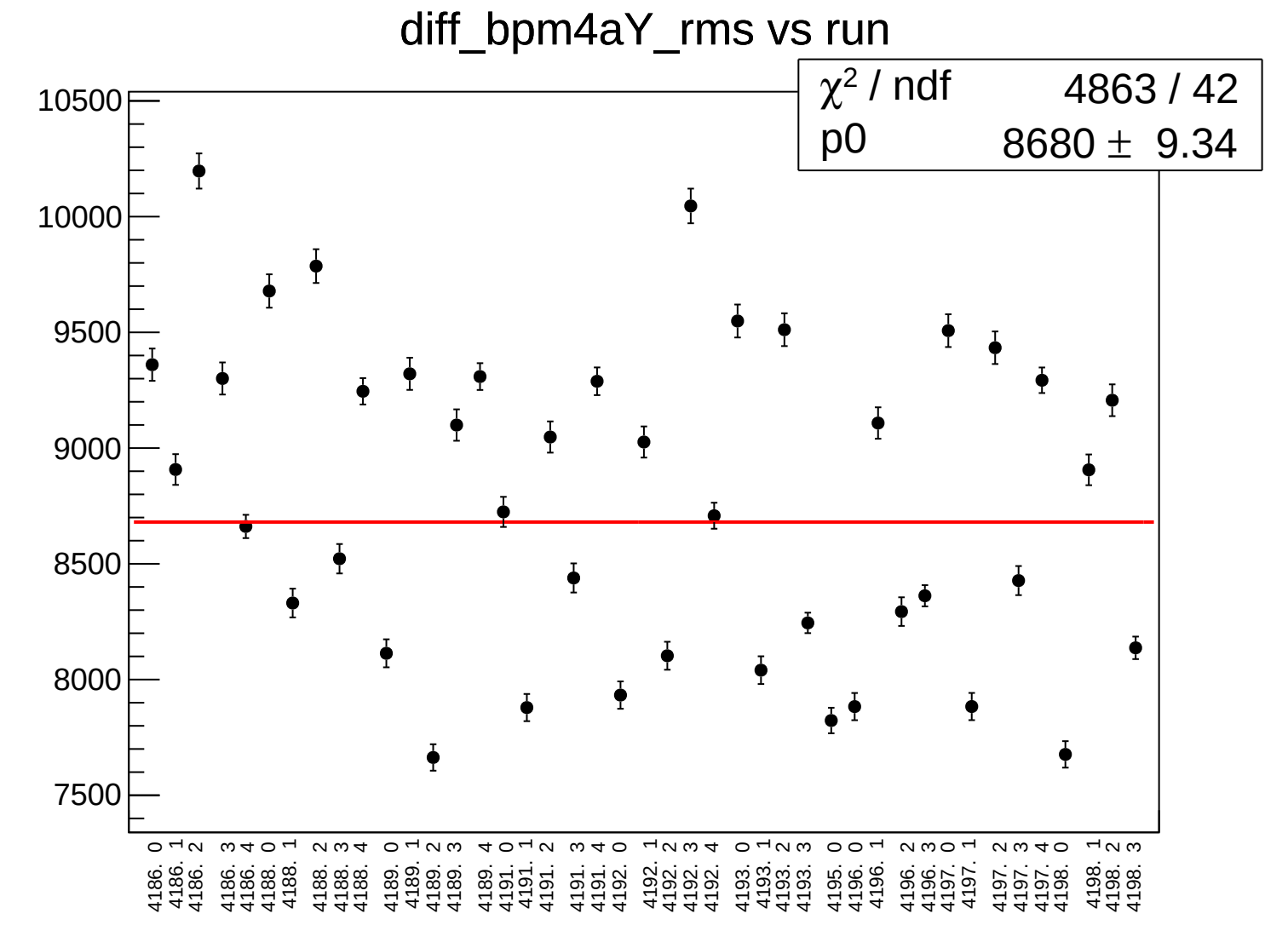

diff_bpm4aX_mean vs run
χ² / ndf 54.92 / 42
p0 −1.152 ± 2.135
60
40
20
0
−20
−40
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −146
Std Dev 167.1
3
2
1
0
−1
−2

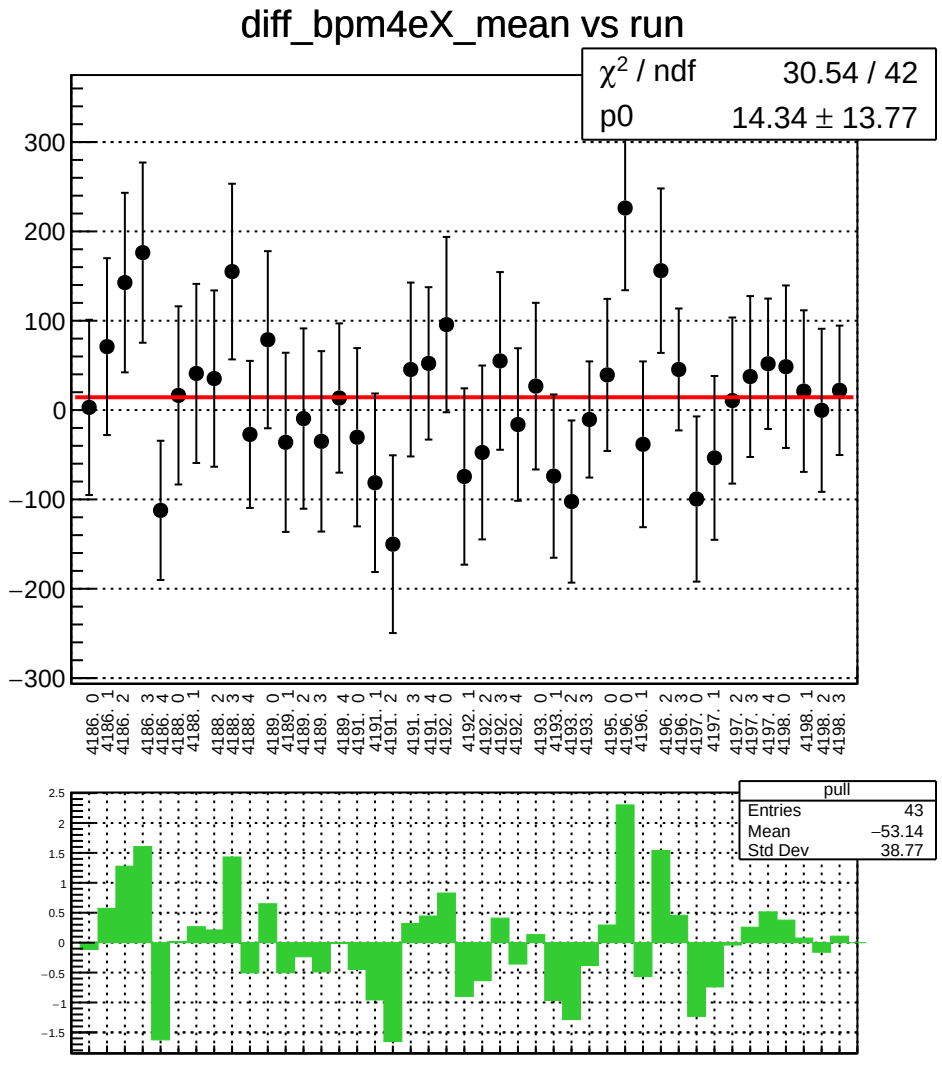

pull1D
Entries 43
Mean 0.02711
Std Dev 1.13
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

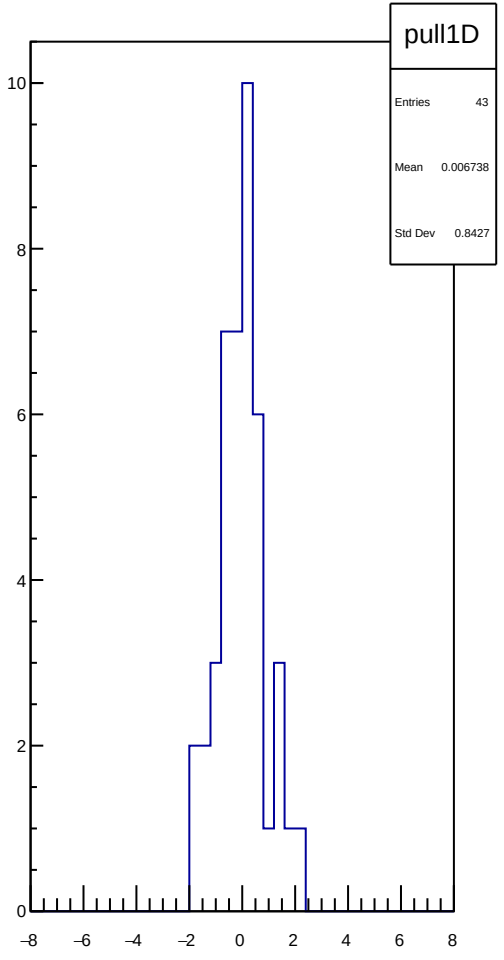

diff_bpm4aX_rms vs run
χ² / ndf 1321 / 42
p0 1406 ± 1.51
1550
1500
1450
1400
1350
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

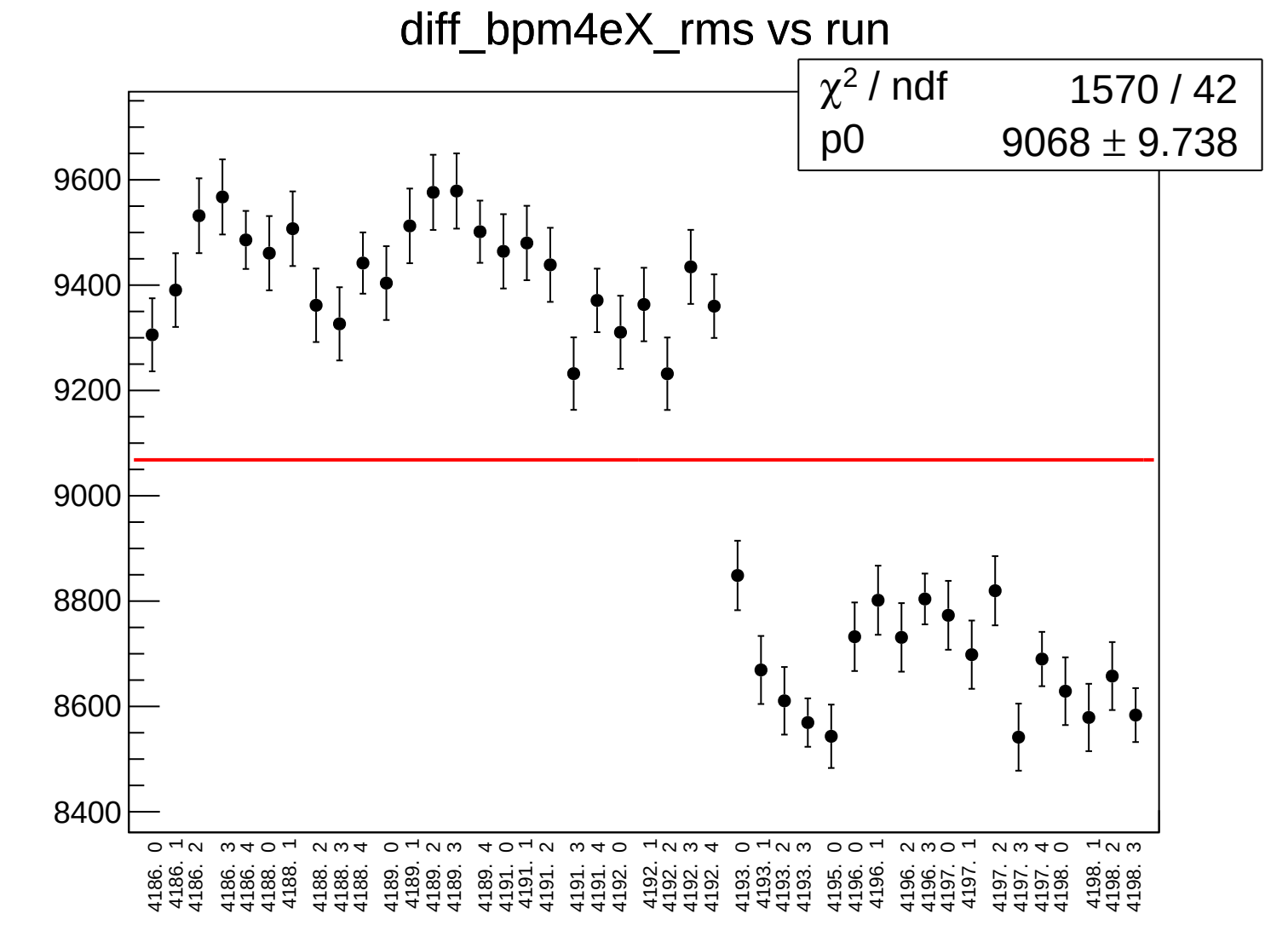

diff_bpm4aY_mean vs run
χ² / ndf 29.4 / 42
p0 −4.021 ± 13.21
300
200
100
0
−100
−200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −408.8
Std Dev 405.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

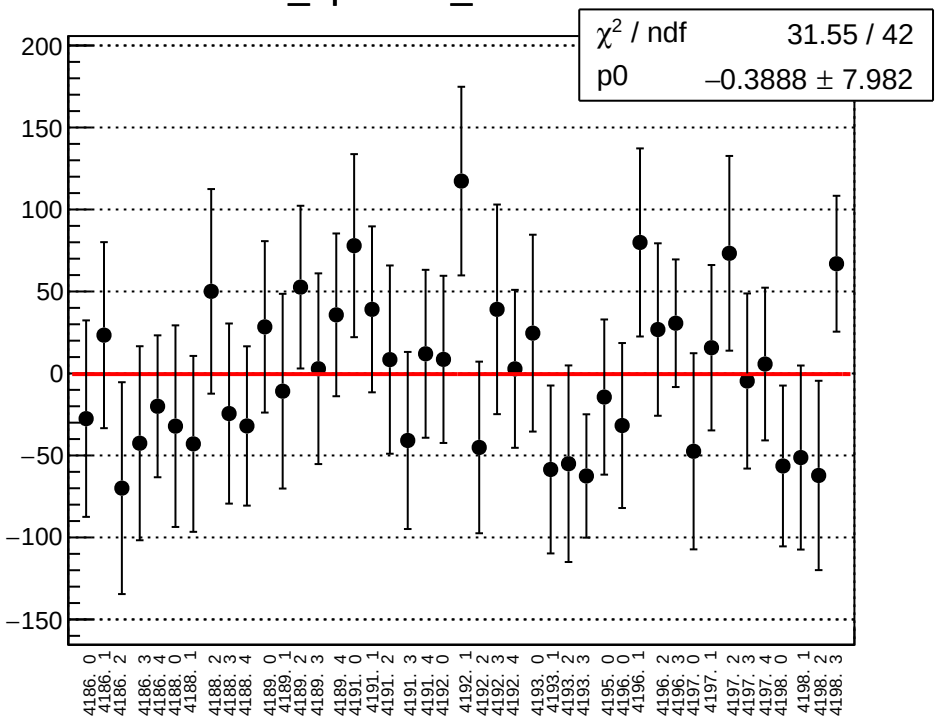

pull1D
Entries 43
Mean −0.001051
Std Dev 0.8268
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

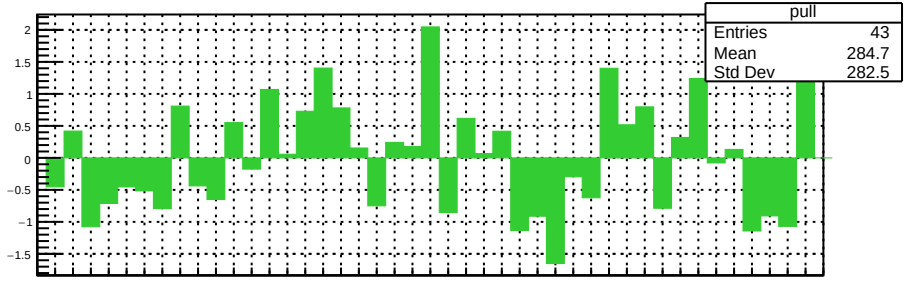

diff_bpm4aY_rms vs run
χ² / ndf 4863 / 42
p0 8680 ± 9.34
10500
10000
9500
9000
8500
8000
7500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

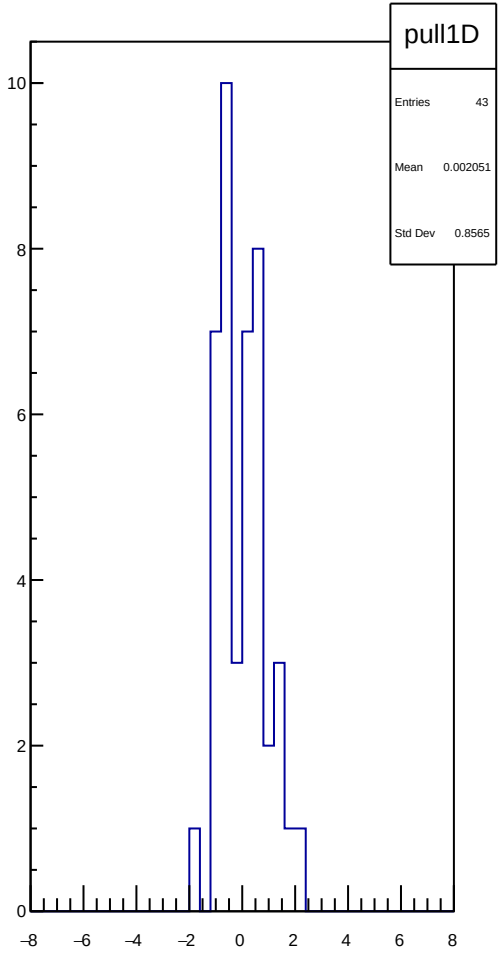

diff_bpm4eX_mean vs run
χ² / ndf 30.54 / 42
p0 14.34 ± 13.77
pull
Entries 43
Mean −53.14
Std Dev 38.77

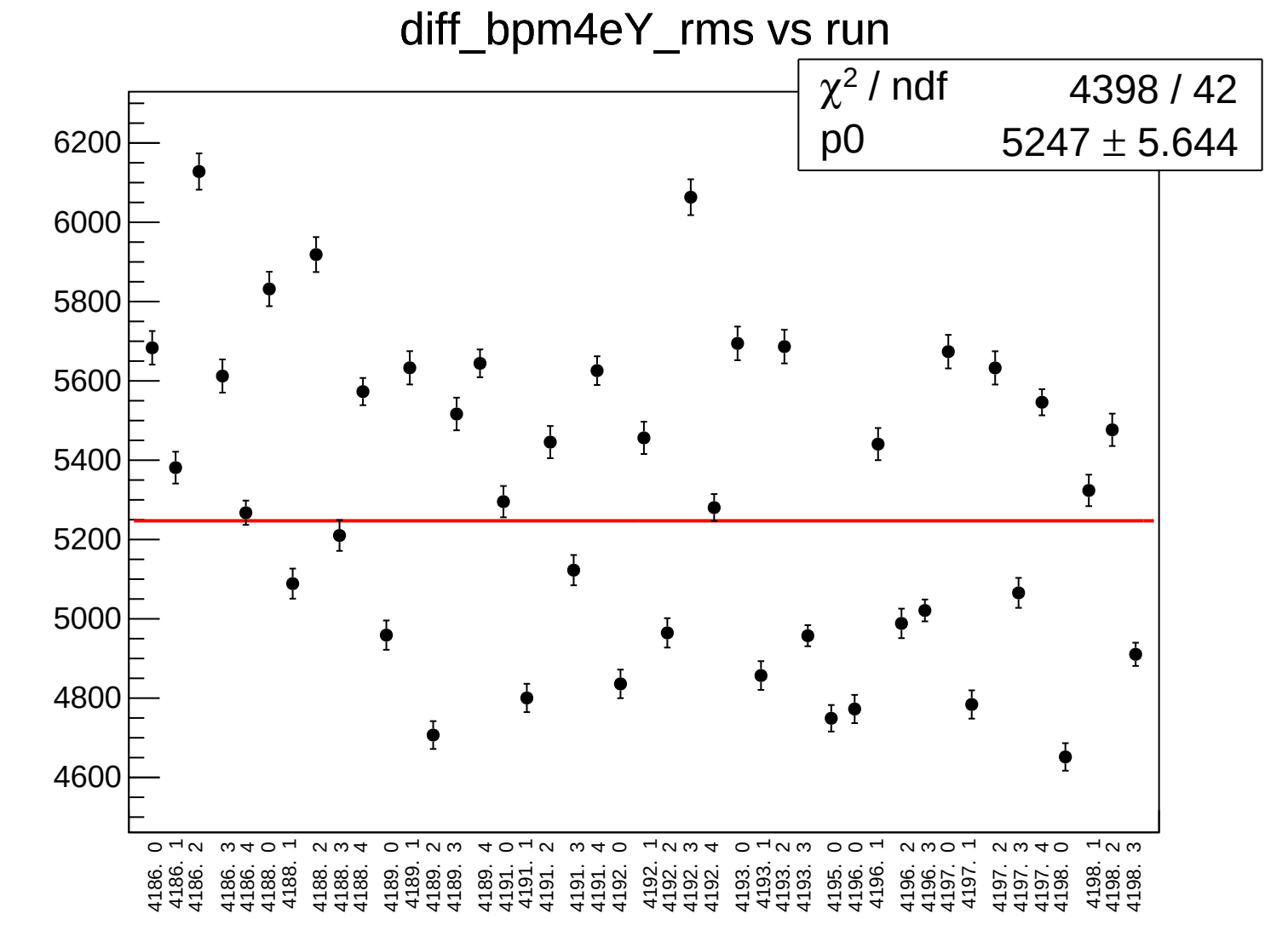

pull1D
Entries 43
Mean 0.006738
Std Dev 0.8427

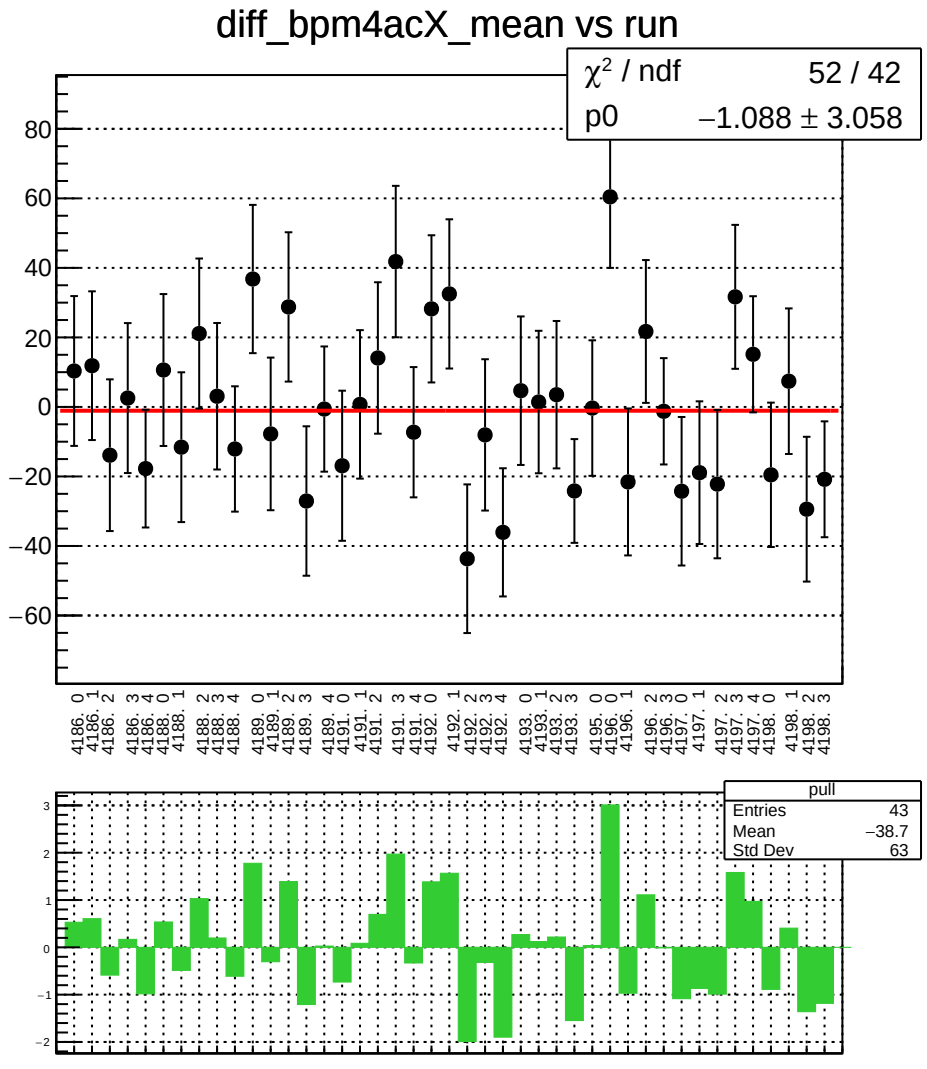

diff_bpm4eX_rms vs run
χ² / ndf 1570 / 42
p0 9068 ± 9.738
9600
9400
9200
9000
8800
8600
8400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

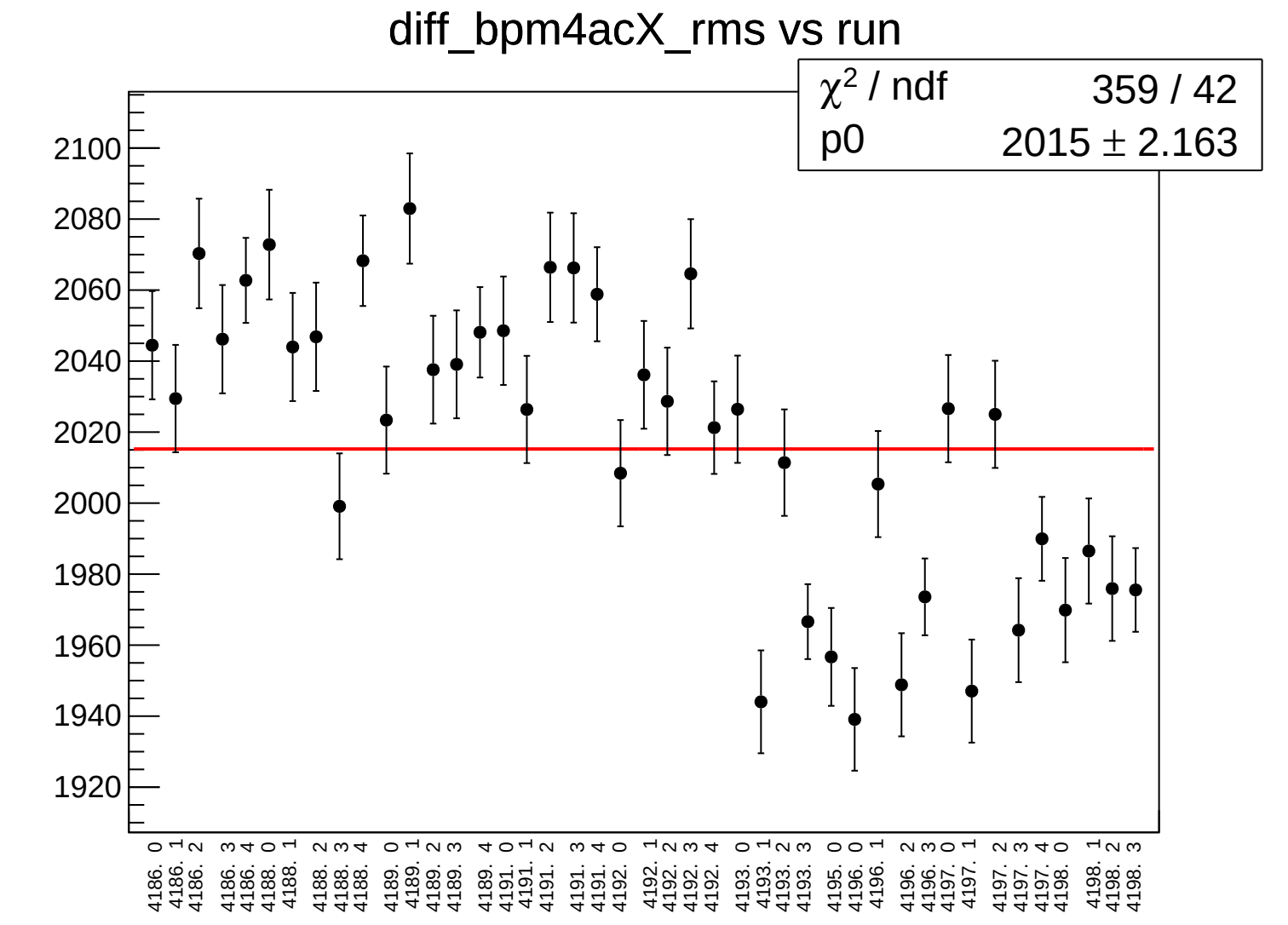

diff_bpm4eY_mean vs run
χ² / ndf 31.55 / 42
p0 −0.3888 ± 7.982
200
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

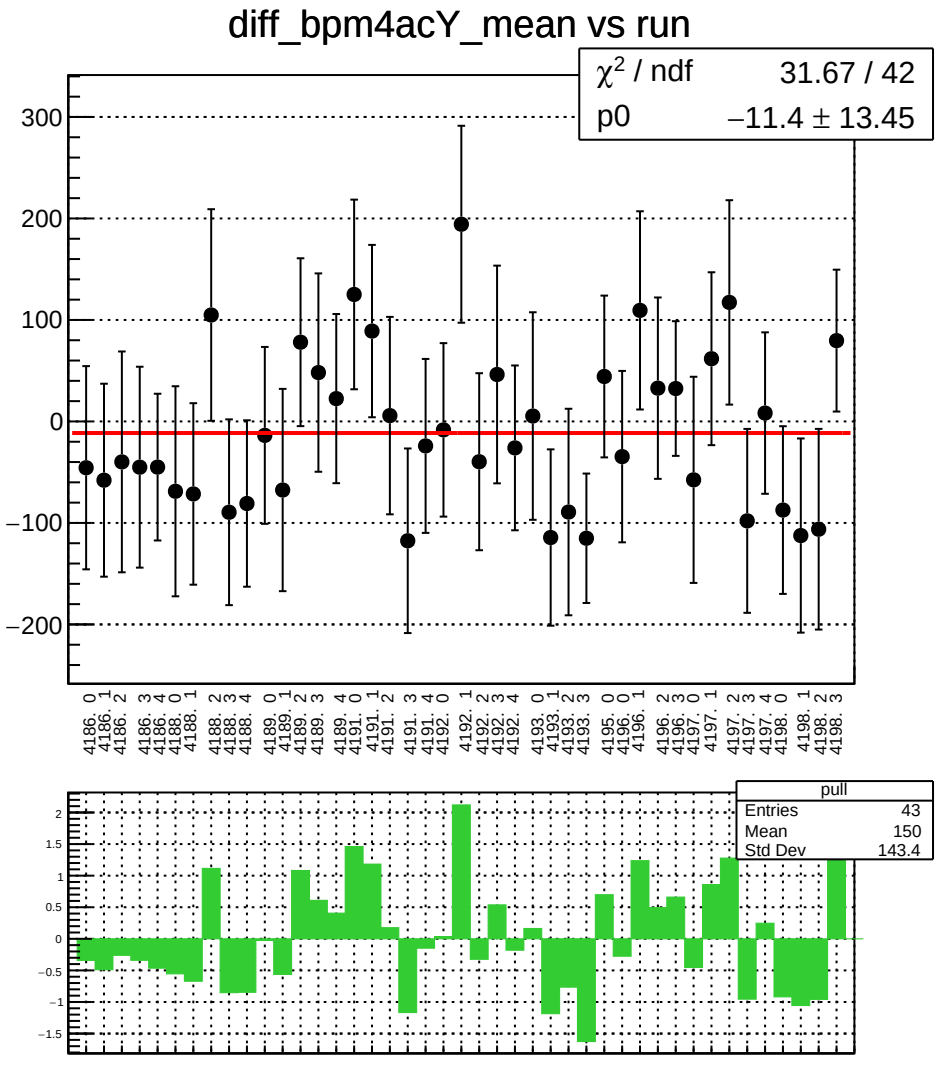

pull
Entries 43
Mean 284.7
Std Dev 282.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

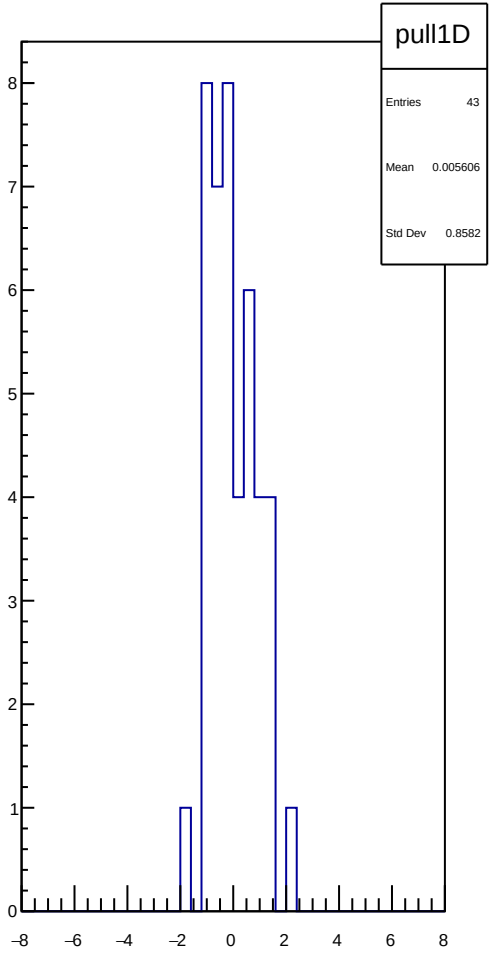

pull1D
Entries 43
Mean 0.002051
Std Dev 0.8565
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

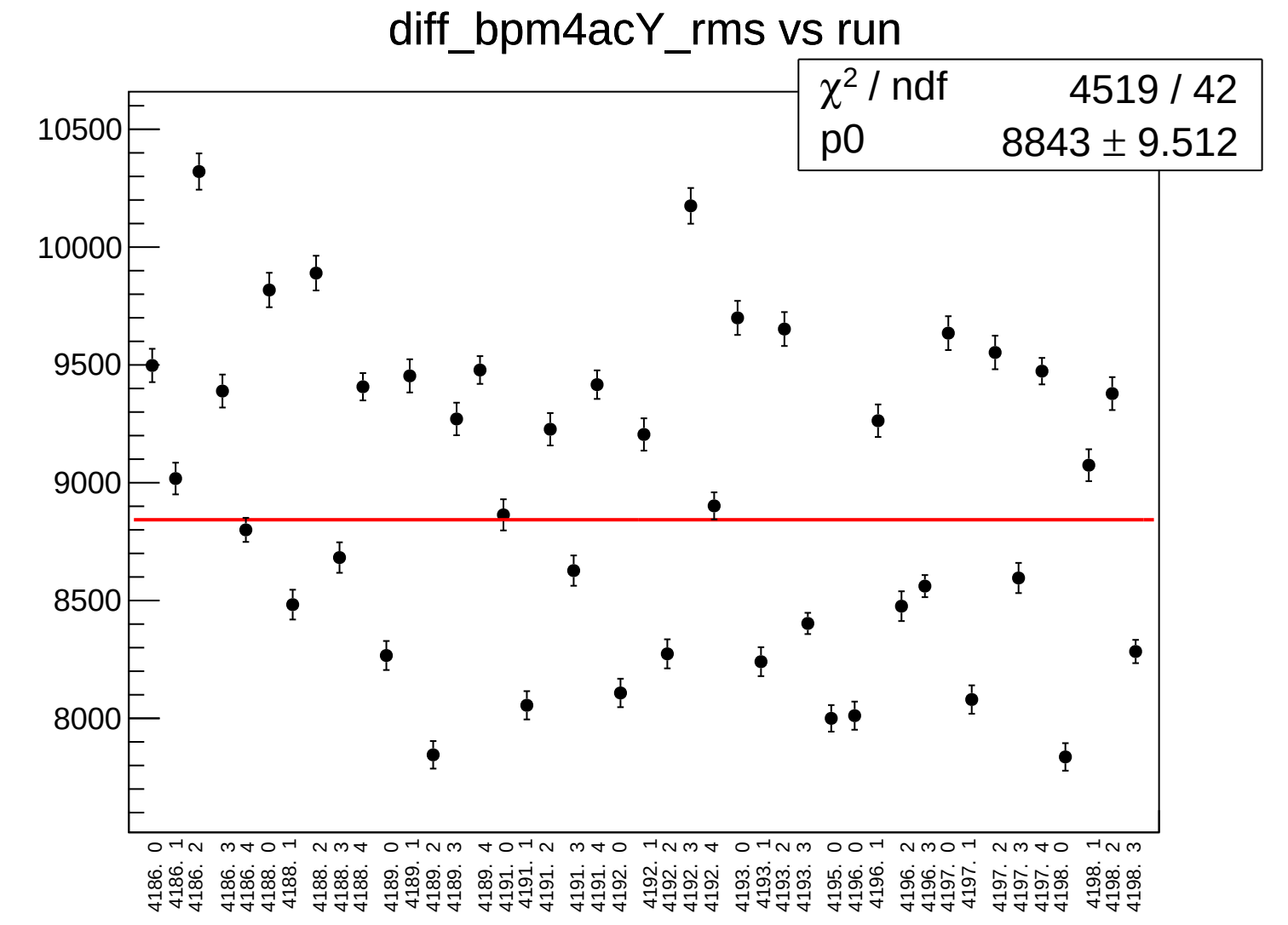

diff_bpm4eY_rms vs run
χ² / ndf 4398 / 42
p0 5247 ± 5.644
6200
6000
5800
5600
5400
5200
5000
4800
4600
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

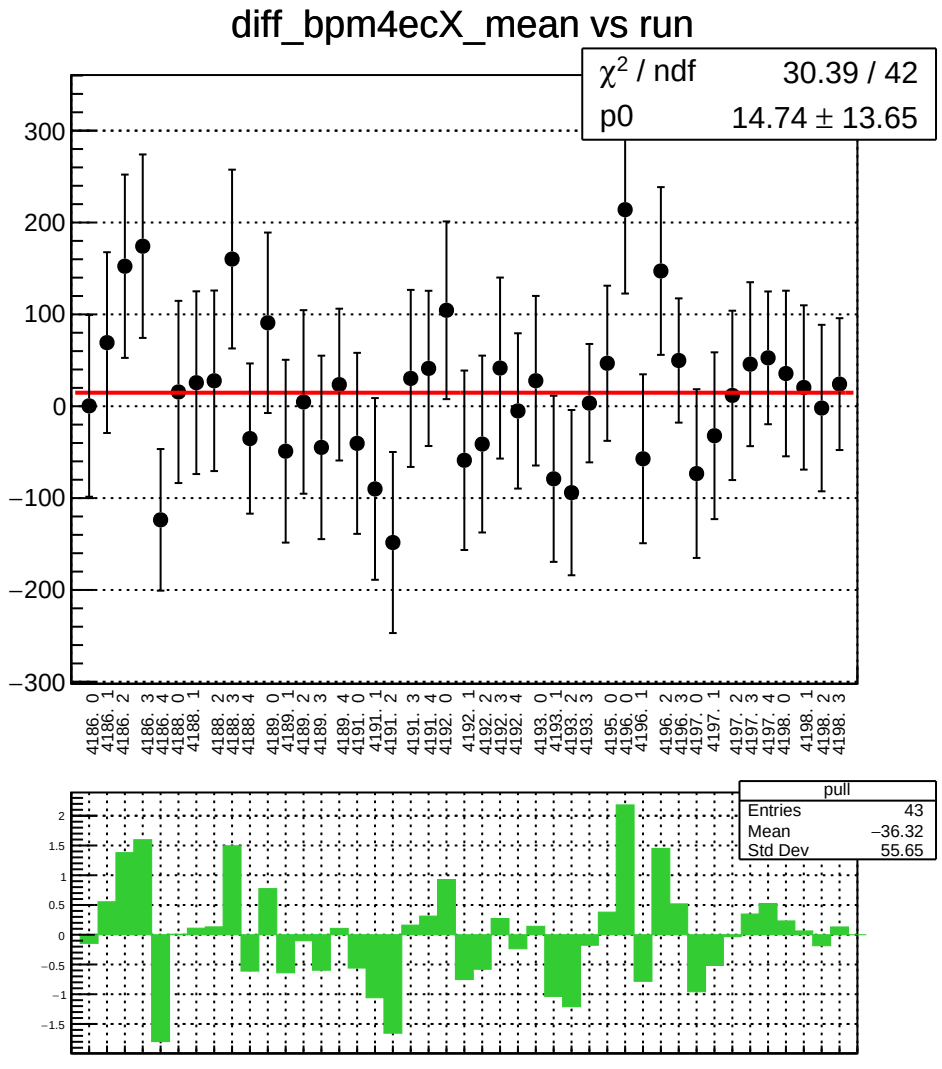

diff_bpm4acX_mean vs run
χ² / ndf 52 / 42
p0 −1.088 ± 3.058
pull
Entries 43
Mean −38.7
Std Dev 63
pull1D
Entries 43
Mean 0.03102
Std Dev 1.099

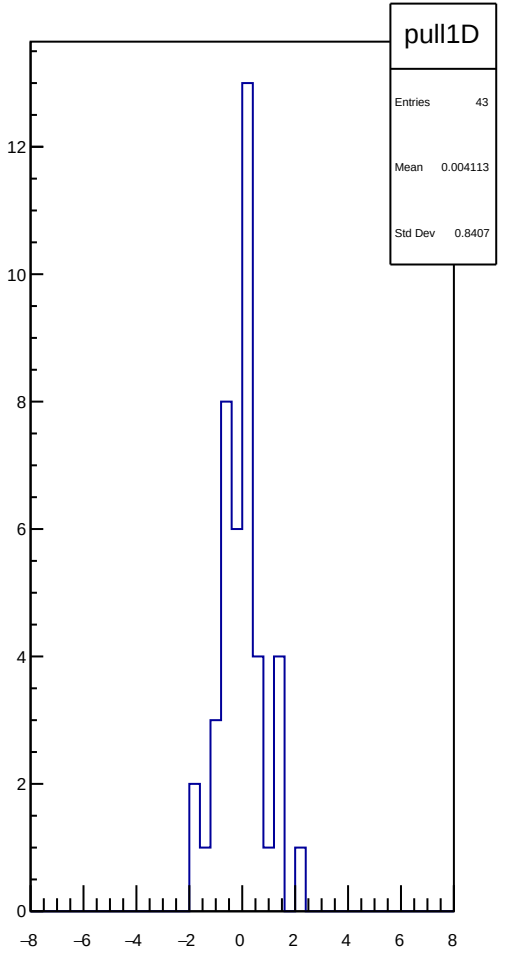

diff_bpm4acX_rms vs run
χ² / ndf 359 / 42
p0 2015 ± 2.163
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

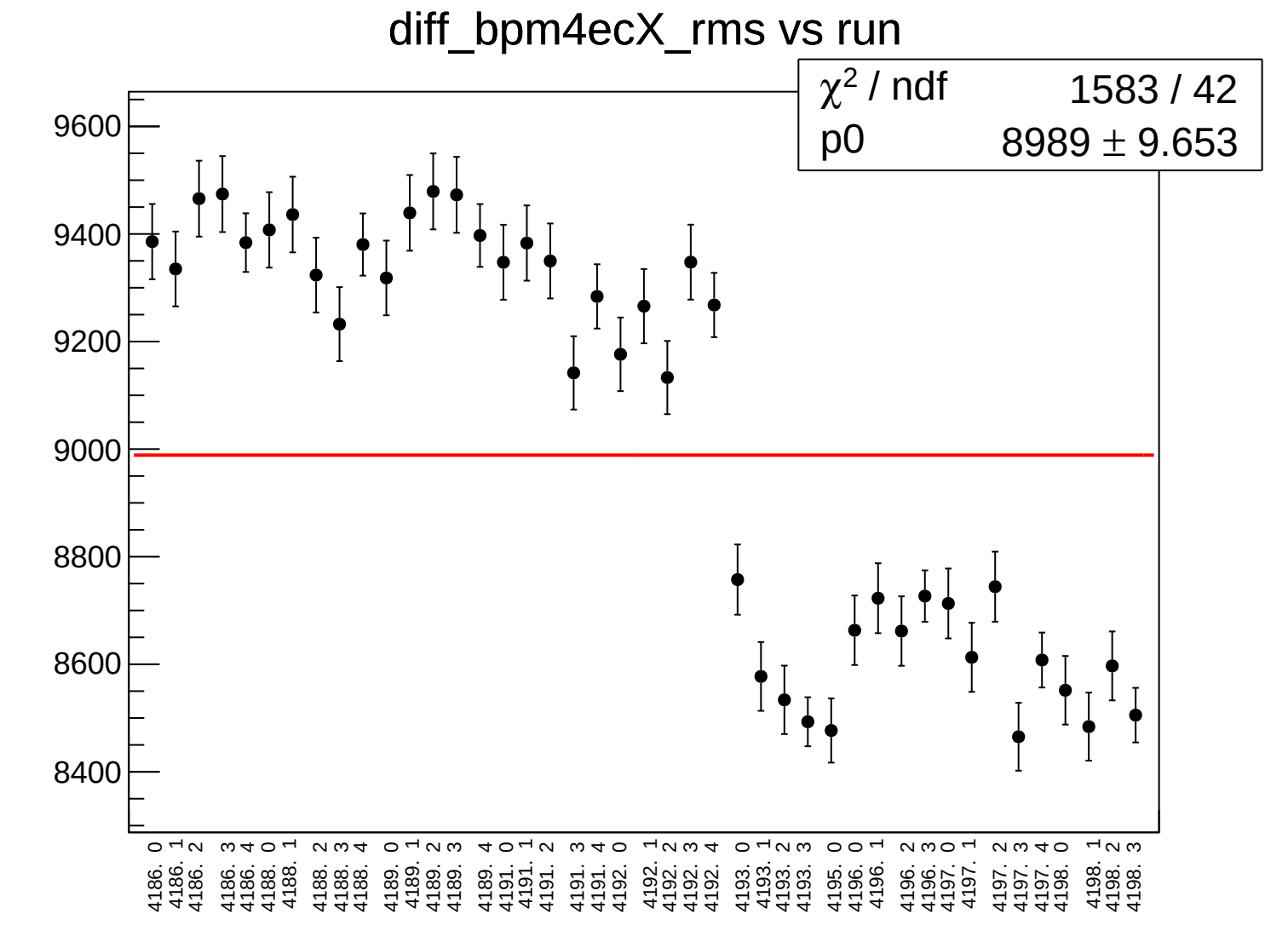

diff_bpm4acY_mean vs run
χ² / ndf 31.67 / 42
p0 −11.4 ± 13.45
300
200
100
0
−100
−200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 150
Std Dev 143.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

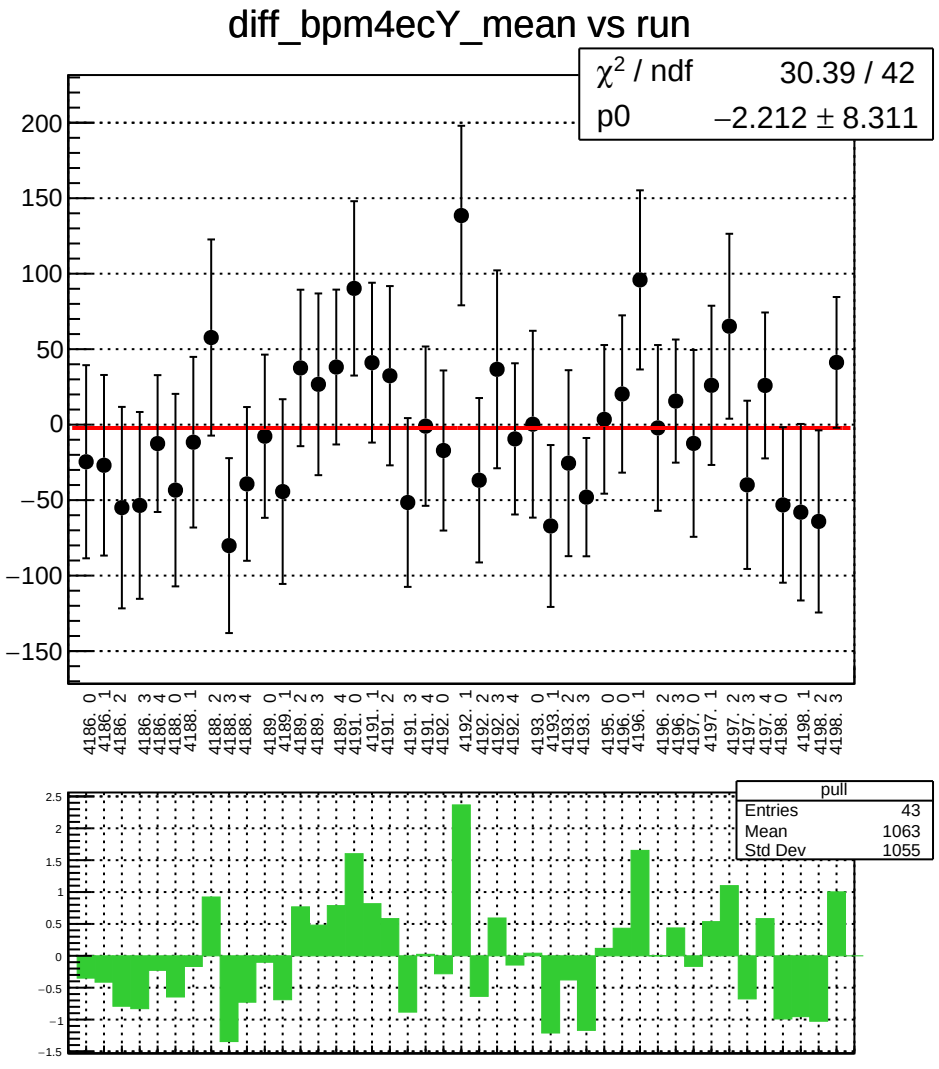

pull1D
Entries 43
Mean 0.005606
Std Dev 0.8582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

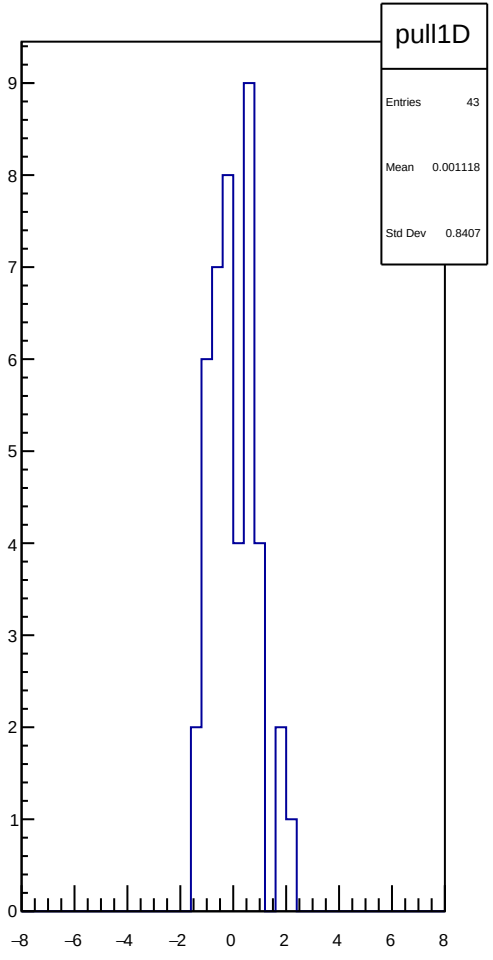

diff_bpm4acY_rms vs run
χ² / ndf 4519 / 42
p0 8843 ± 9.512
10500
10000
9500
9000
8500
8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

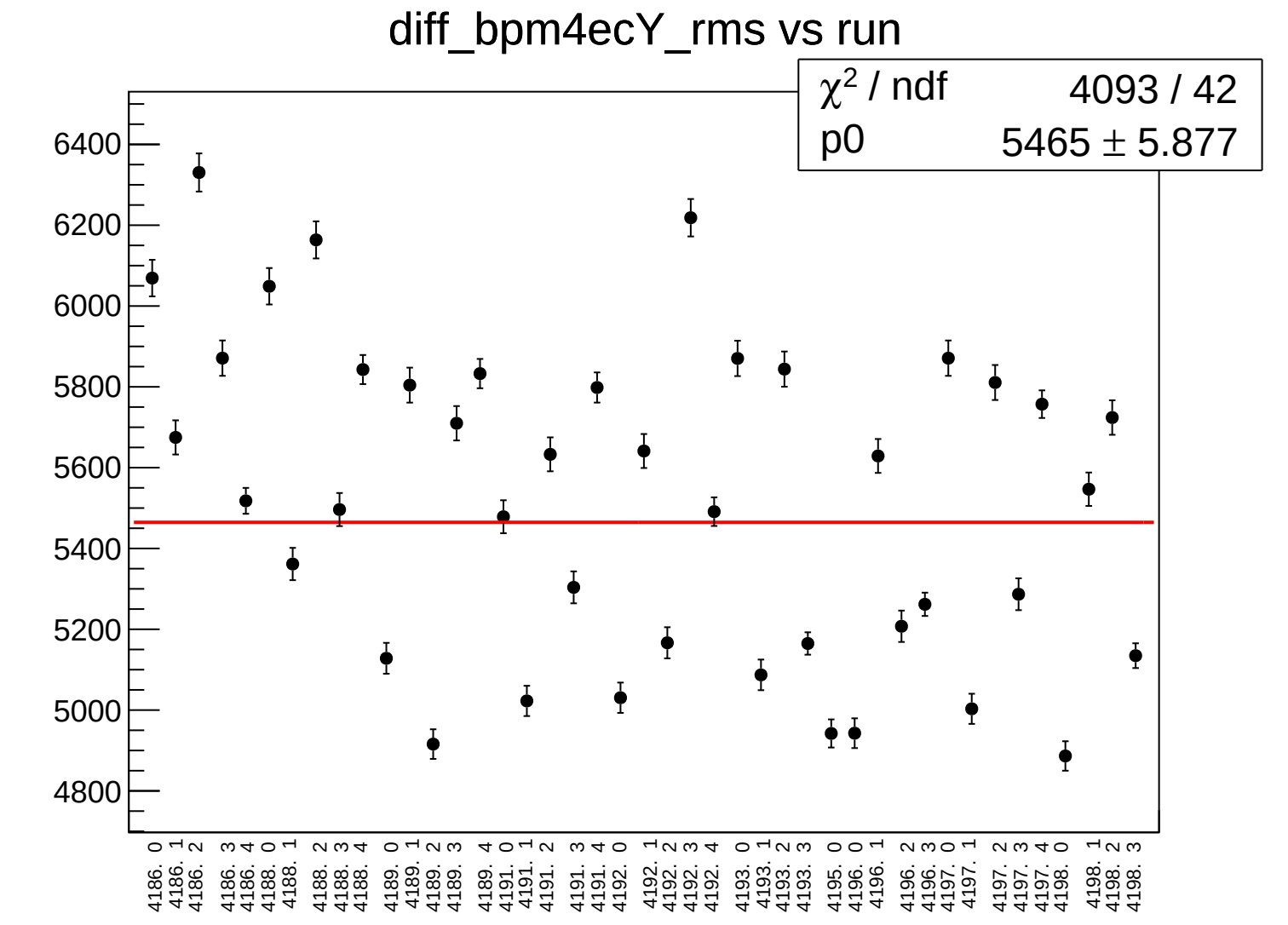

diff_bpm4ecX_mean vs run
χ^2 / ndf 30.39 / 42
p0 14.74 ± 13.65
pull
Entries 43
Mean −36.32
Std Dev 55.65

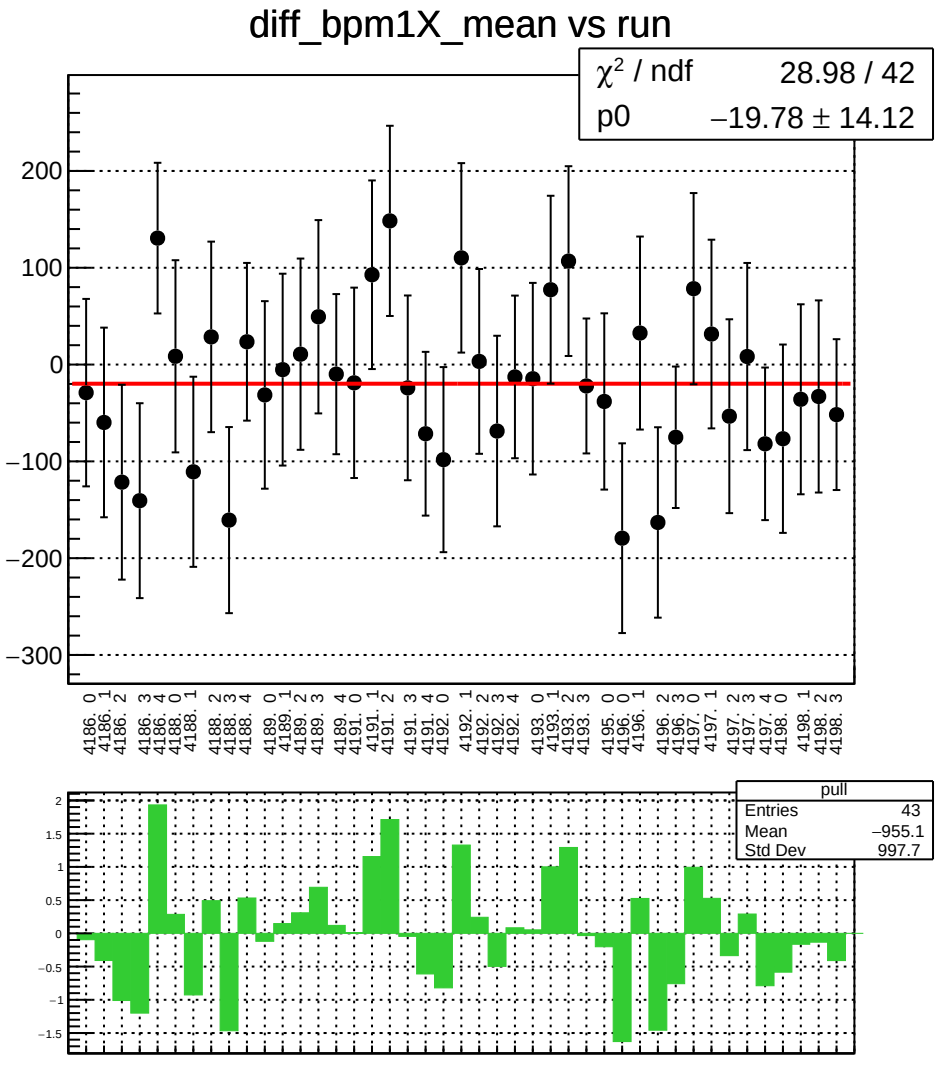

pull1D
Entries 43
Mean 0.004113
Std Dev 0.8407

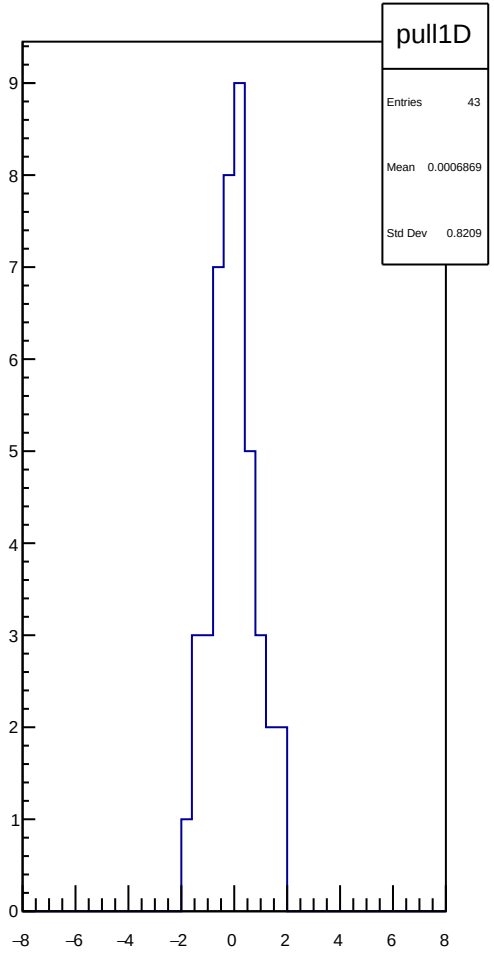

diff_bpm4ecX_rms vs run
χ² / ndf 1583 / 42
p0 8989 ± 9.653
9600
9400
9200
9000
8800
8600
8400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

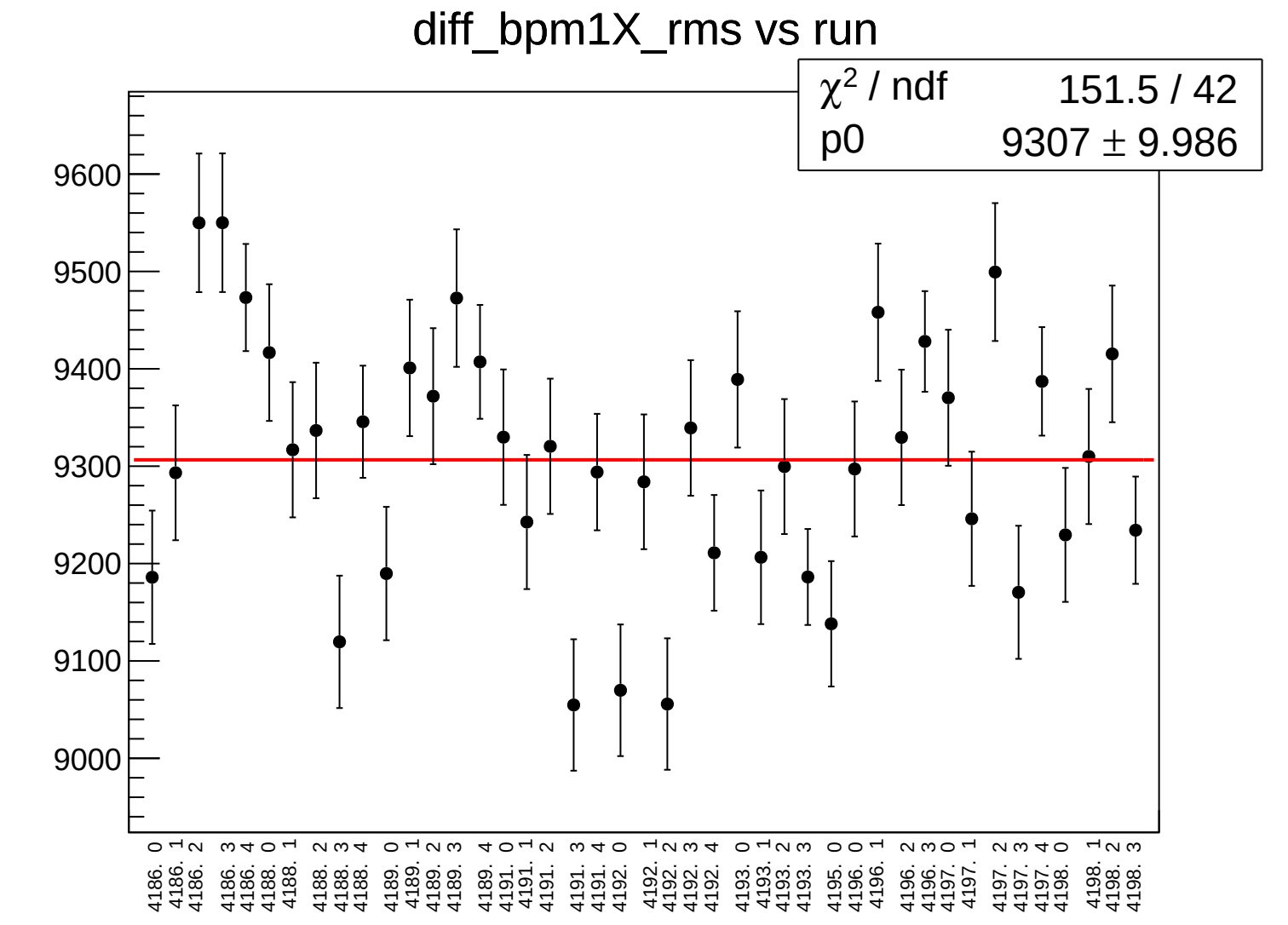

diff_bpm4ecY_mean vs run
χ^2 / ndf 30.39 / 42
p0 −2.212 ± 8.311
200
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1063
Std Dev 1055
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

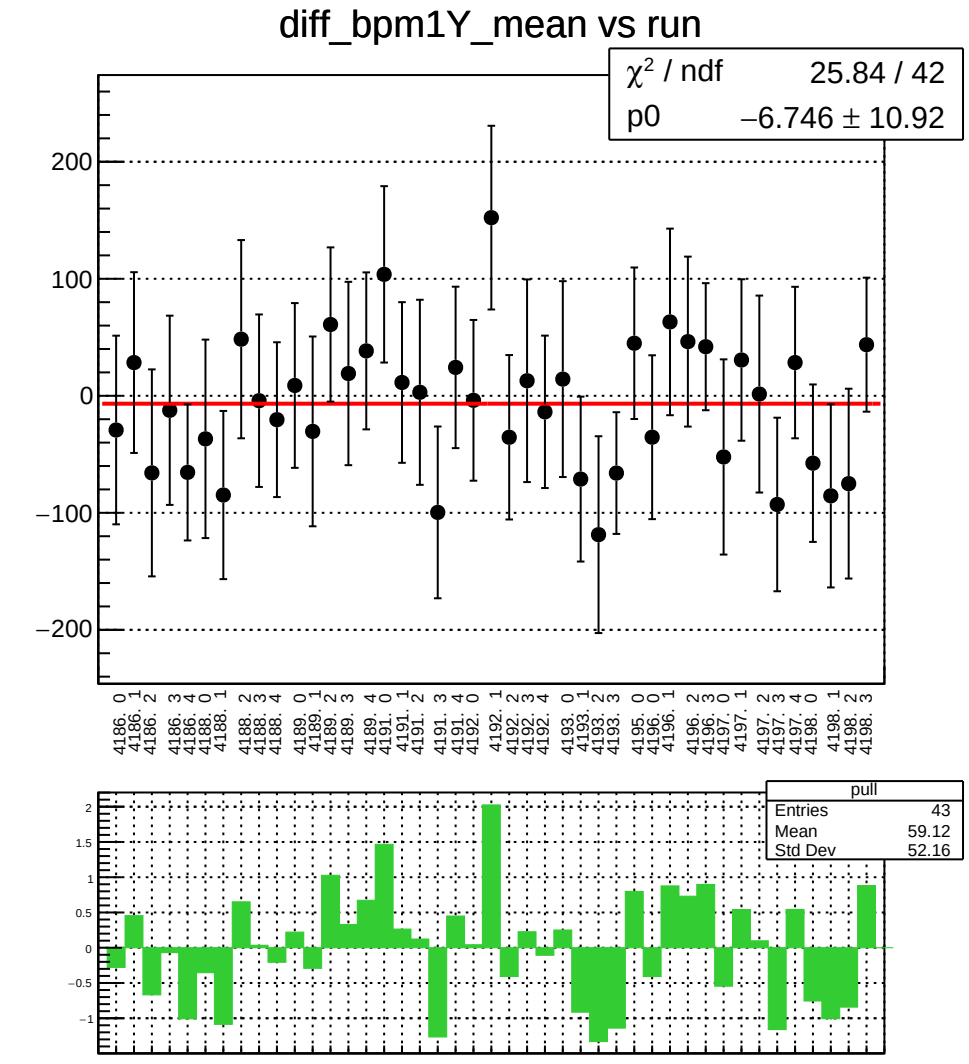

pull1D
Entries 43
Mean 0.001118
Std Dev 0.8407
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

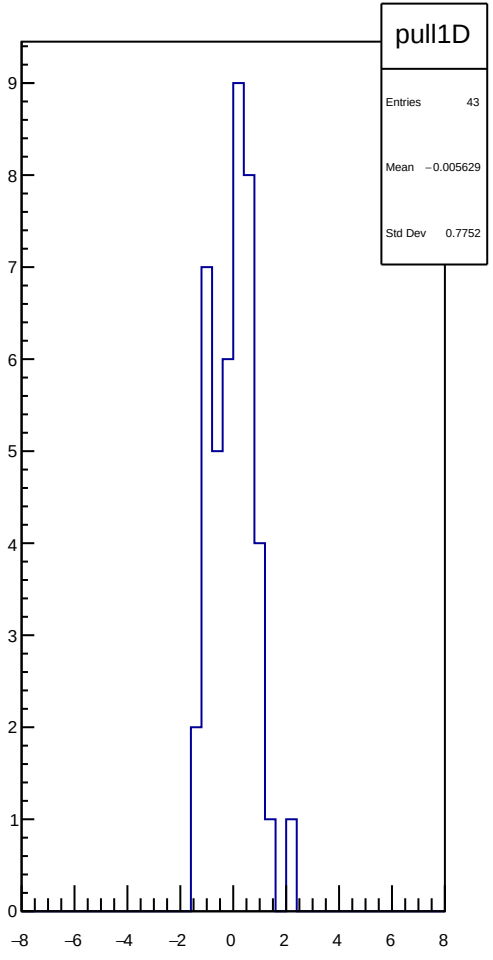

diff_bpm4ecY_rms vs run
χ² / ndf 4093 / 42
p0 5465 ± 5.877
6400
6200
6000
5800
5600
5400
5200
5000
4800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

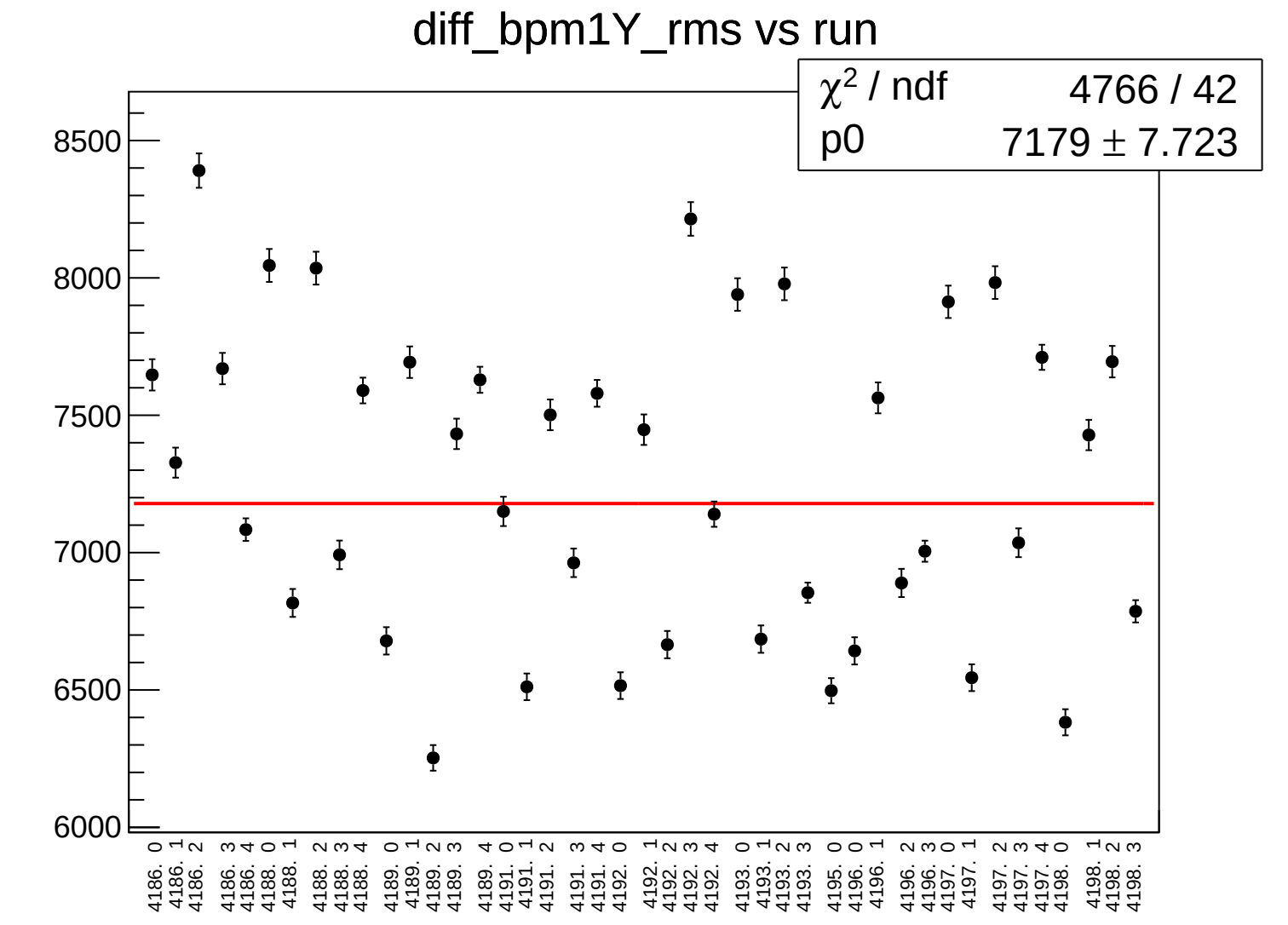

diff_bpm1X_mean vs run
χ² / ndf 28.98 / 42
p0 −19.78 ± 14.12
200
100
0
−100
−200
−300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −955.1
Std Dev 997.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

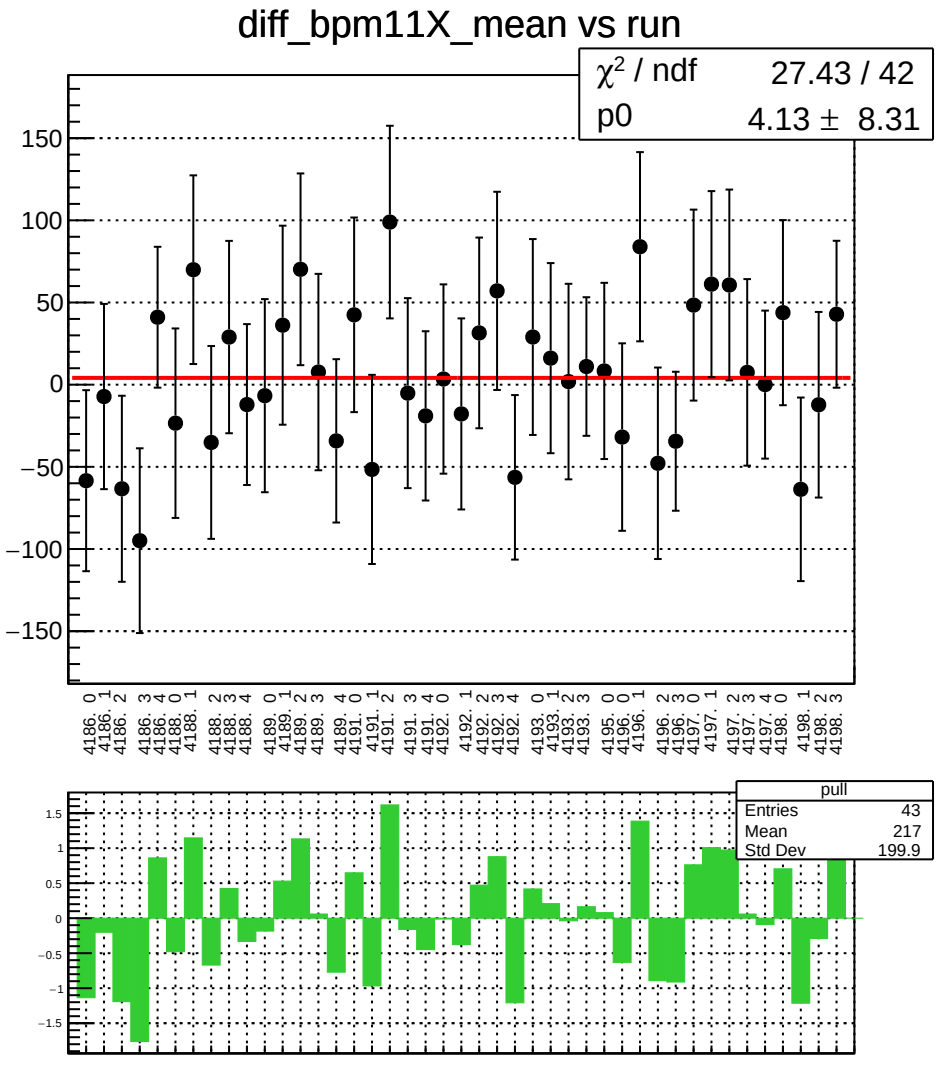

pull1D
Entries 43
Mean 0.0006869
Std Dev 0.8209
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

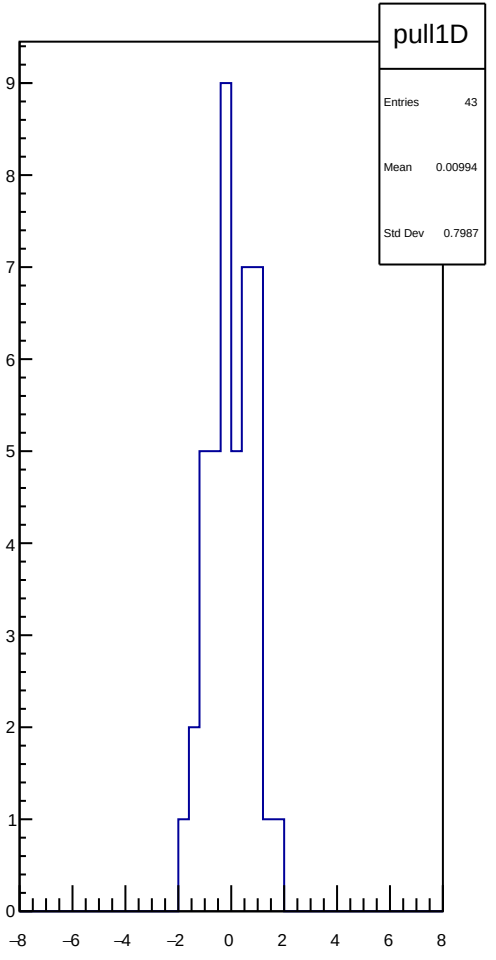

diff_bpm1X_rms vs run
χ^2 / ndf 151.5 / 42
p0 9307 ± 9.986
9600
9500
9400
9300
9200
9100
9000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

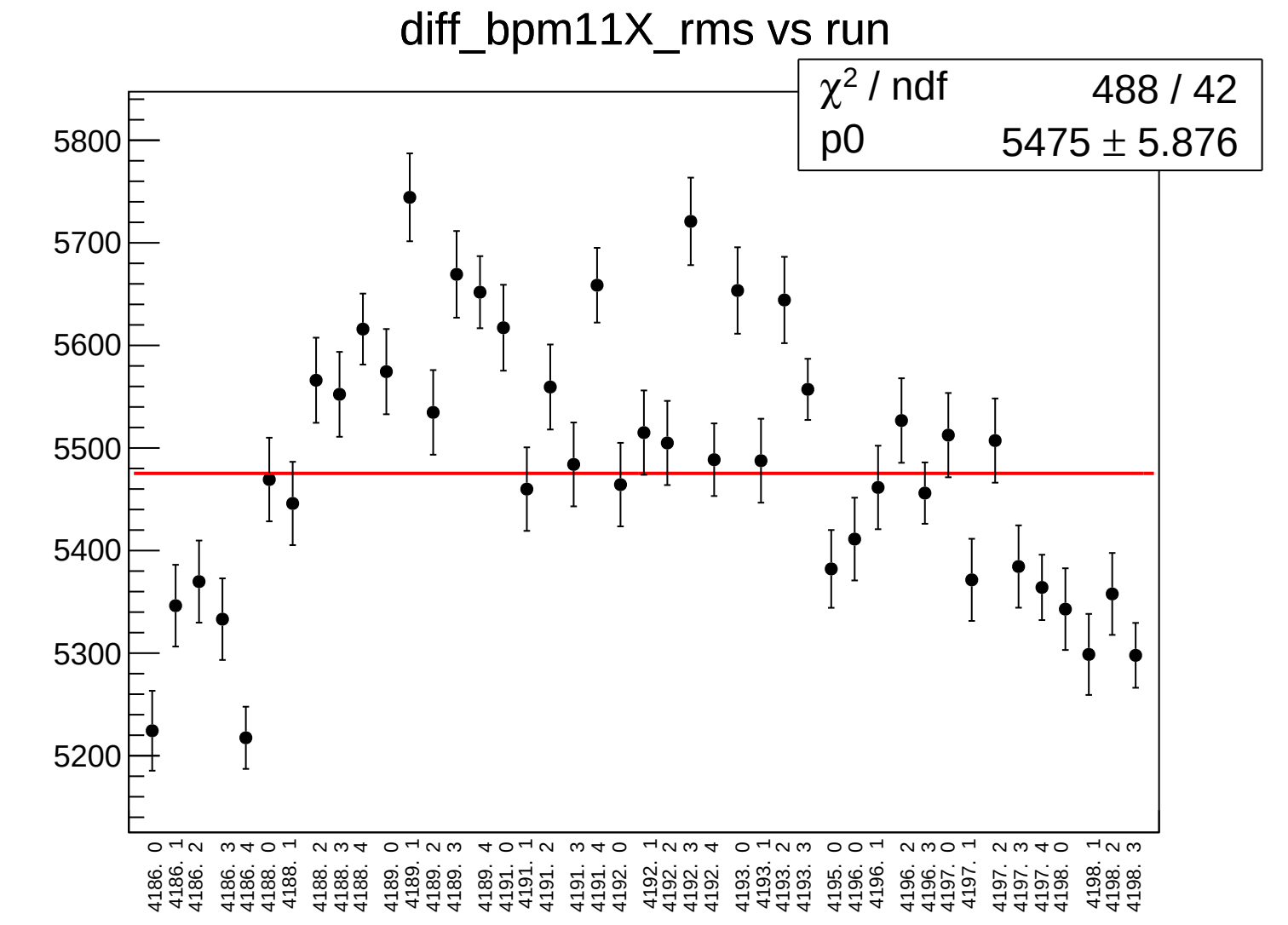

diff_bpm1Y_mean vs run
χ² / ndf 25.84 / 42
p0 −6.746 ± 10.92
200
100
0
−100
−200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 59.12
Std Dev 52.16
2
1.5
1
0.5
0
−0.5
−1

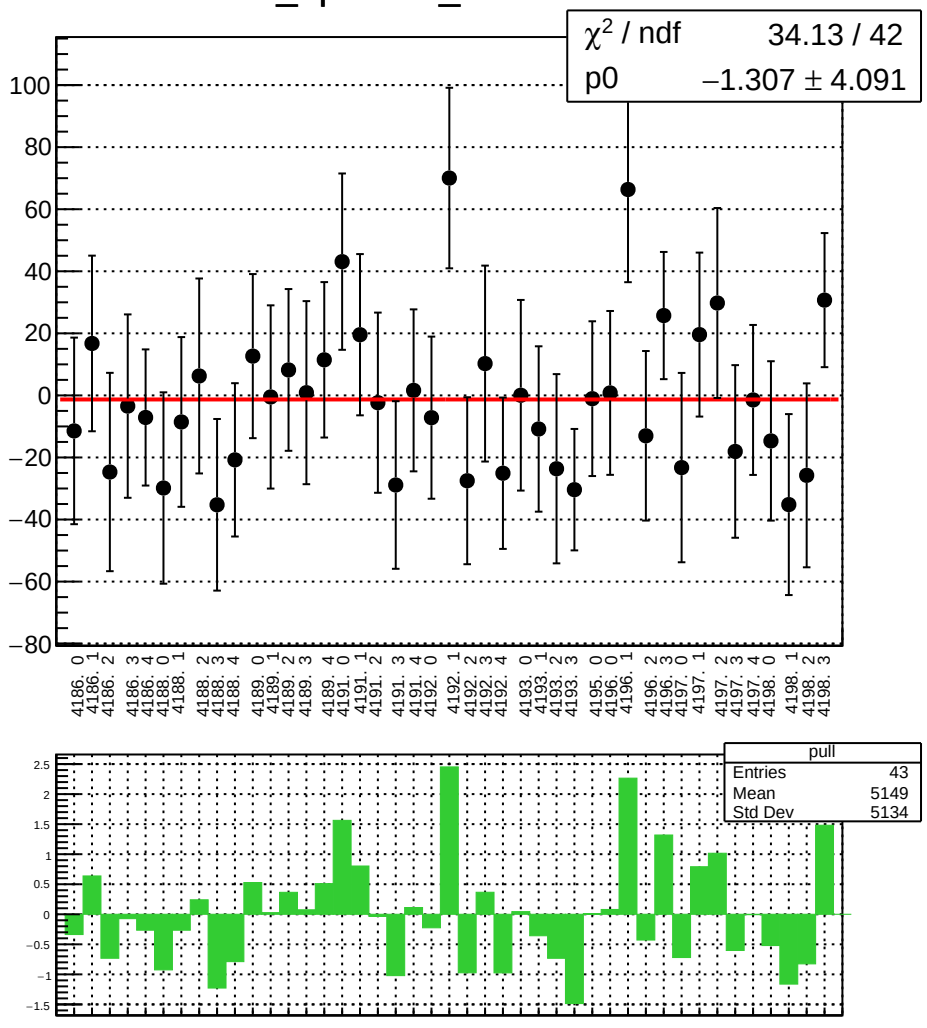

pull1D
Entries 43
Mean −0.005629
Std Dev 0.7752
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

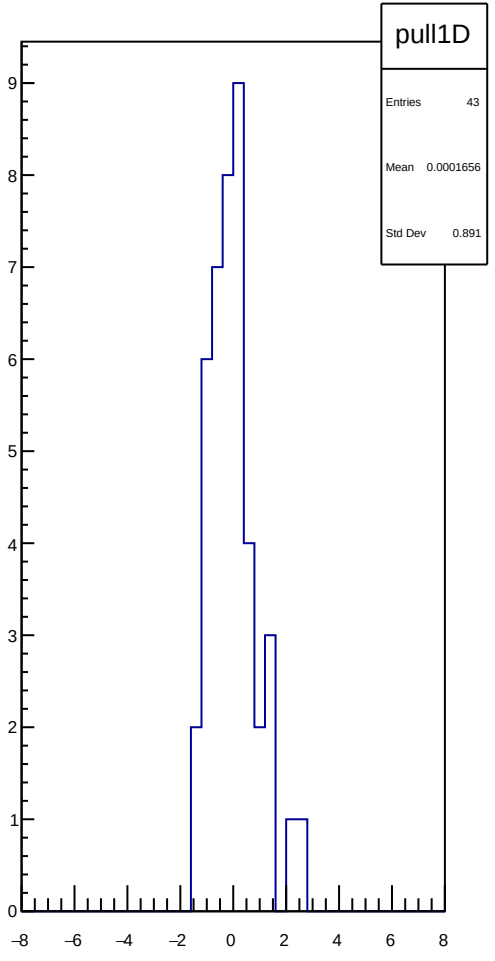

diff_bpm1Y_rms vs run
χ² / ndf 4766 / 42
p0 7179 ± 7.723
8500
8000
7500
7000
6500
6000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

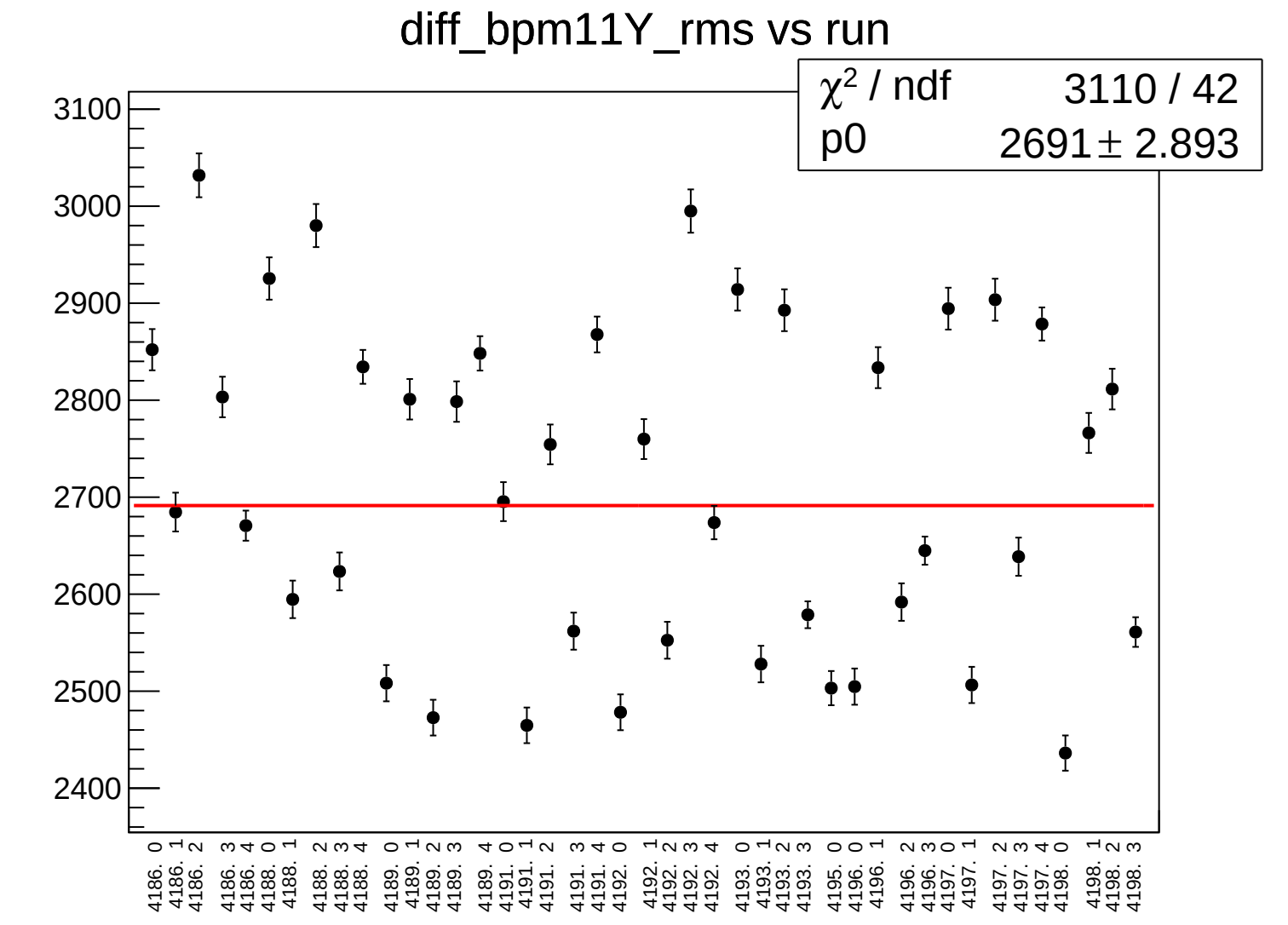

diff_bpm11X_mean vs run
χ² / ndf 27.43 / 42
p0 4.13 ± 8.31
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 217
Std Dev 199.9
1.5
1
0.5
0
−0.5
−1
−1.5

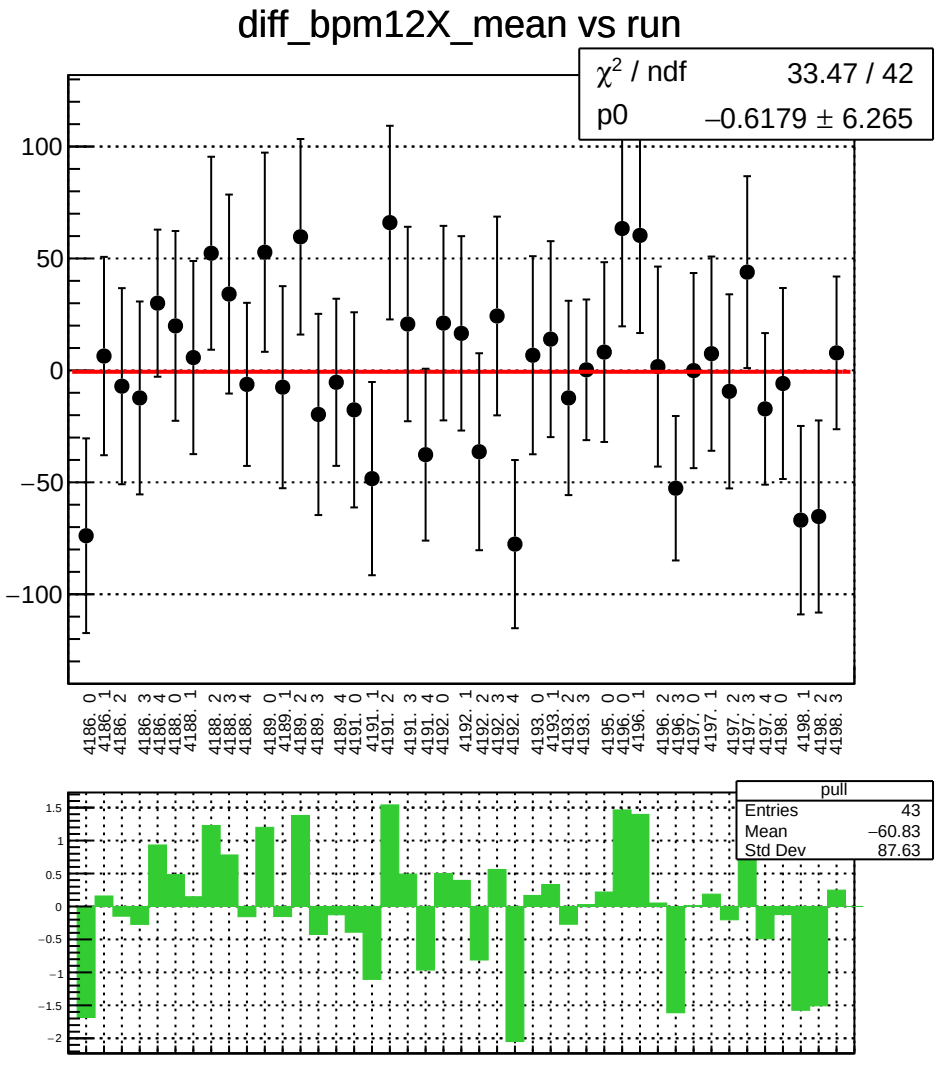

pull1D
Entries 43
Mean 0.00994
Std Dev 0.7987
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

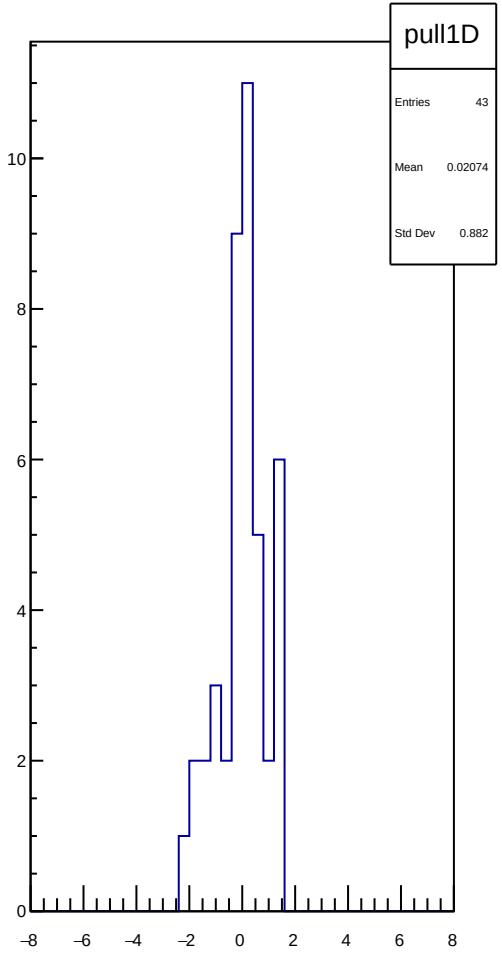

diff_bpm11X_rms vs run
χ² / ndf 488 / 42
p0 5475 ± 5.876
5800
5700
5600
5500
5400
5300
5200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

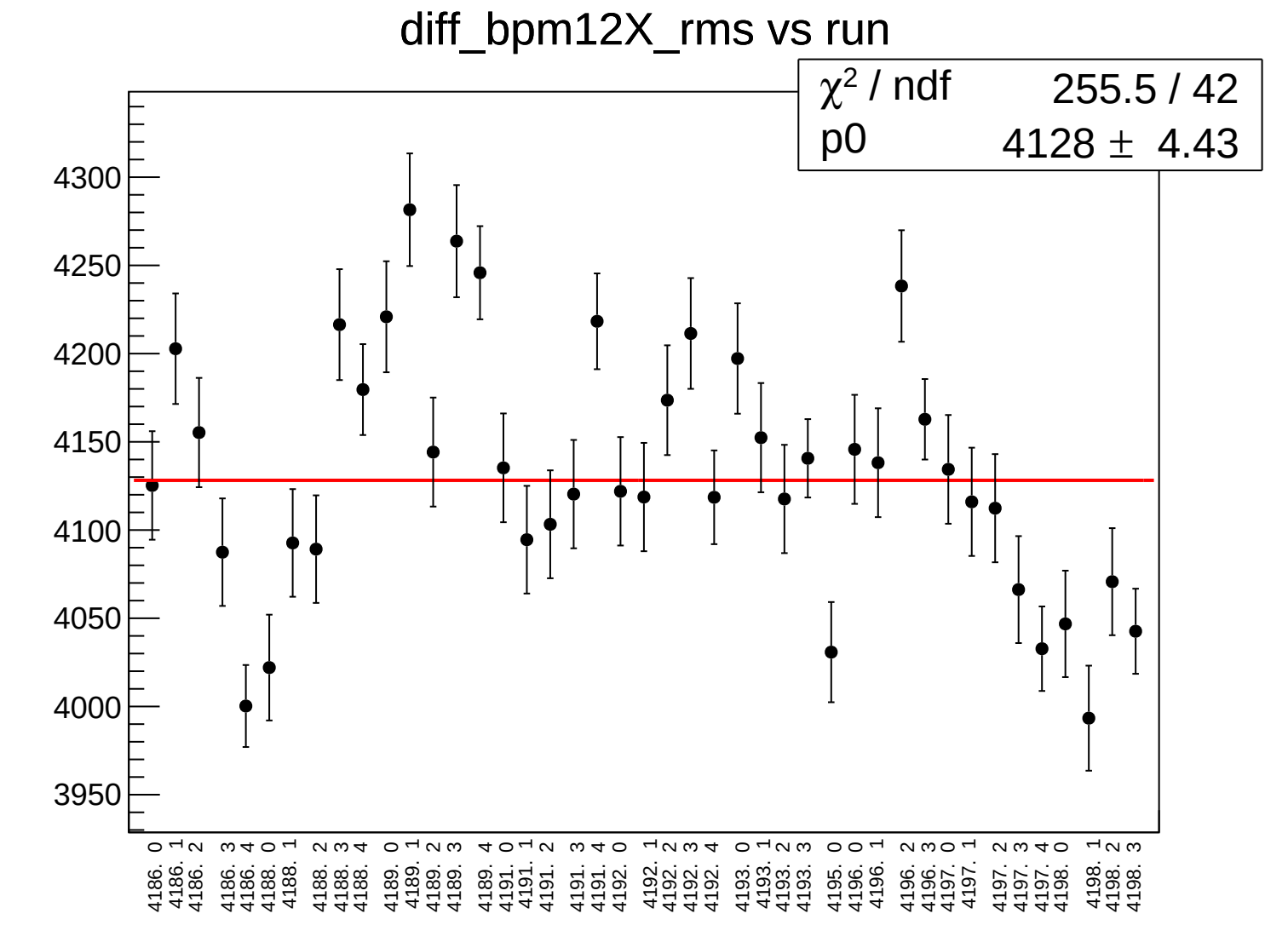

diff_bpm11Y_mean vs run
χ^2 / ndf 34.13 / 42
p0 −1.307 ± 4.091
pull
Entries 43
Mean 5149
Std Dev 5134

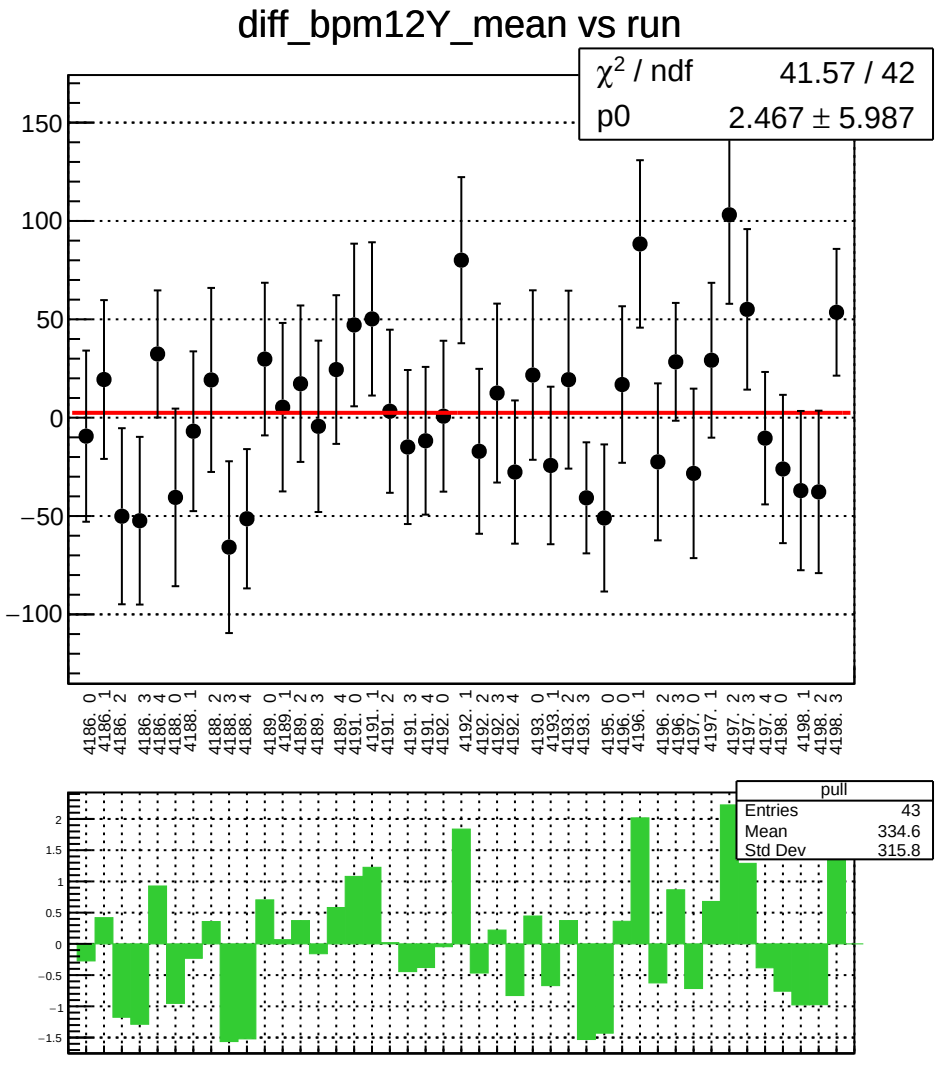

pull1D
Entries 43
Mean 0.0001656
Std Dev 0.891

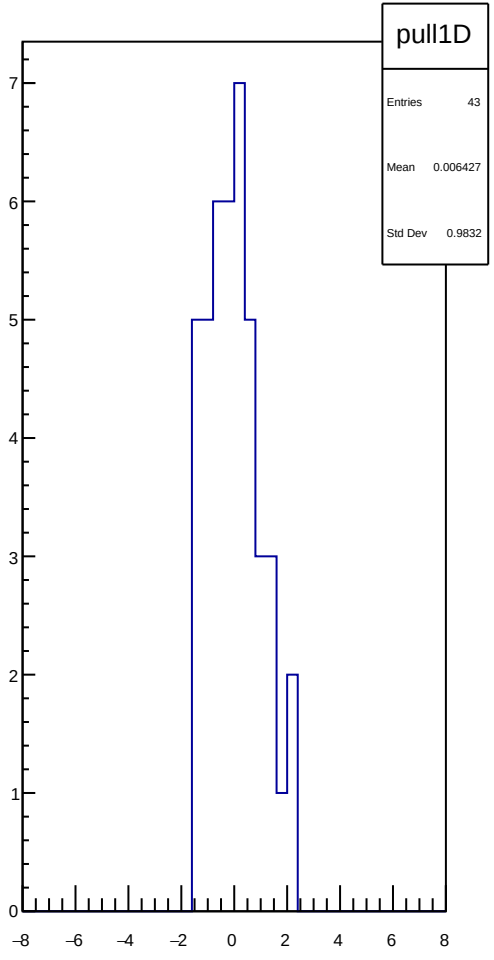

diff_bpm11Y_rms vs run
χ² / ndf 3110 / 42
p0 2691 ± 2.893
3100
3000
2900
2800
2700
2600
2500
2400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

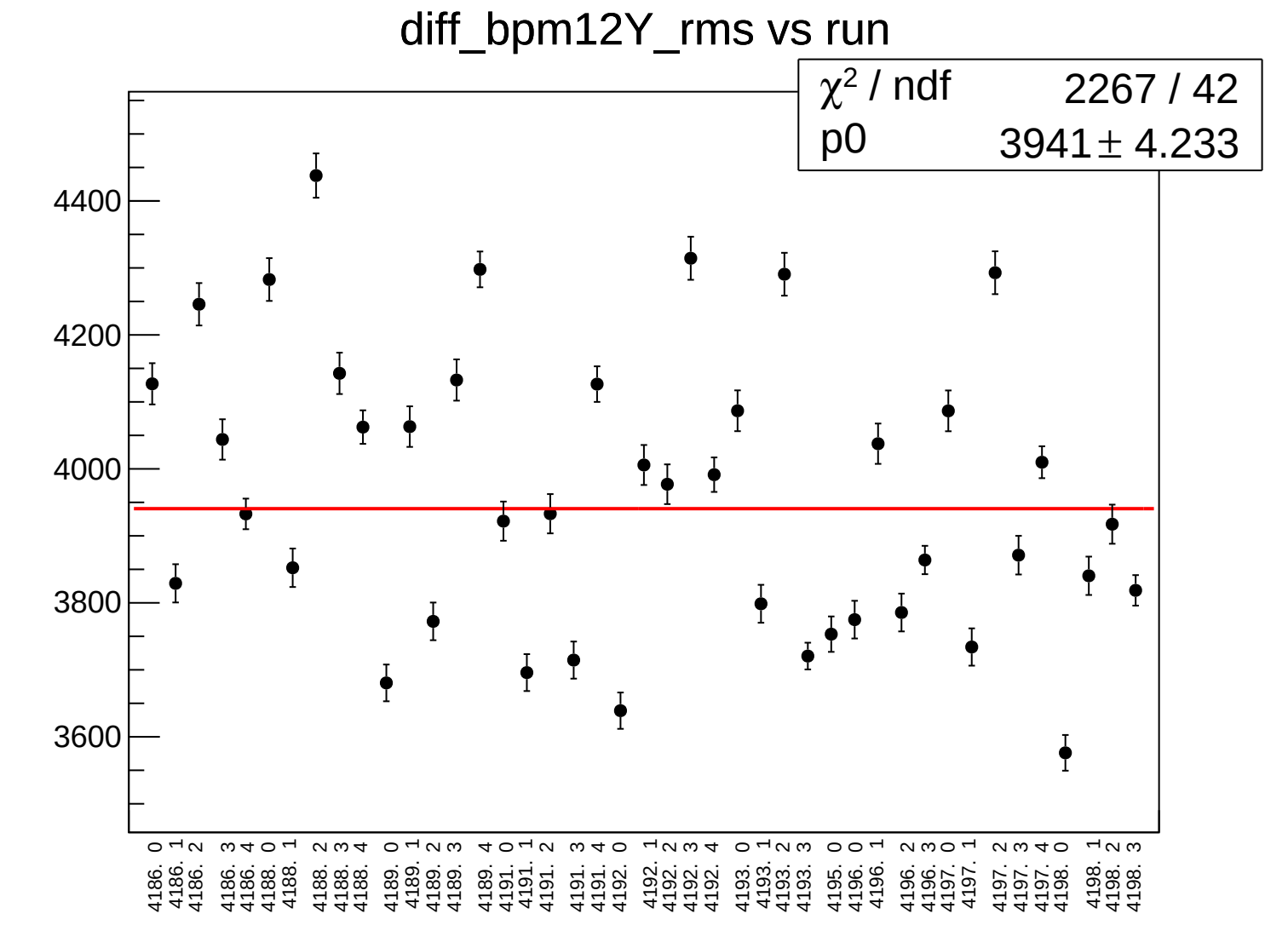

diff_bpm12X_mean vs run
χ² / ndf 33.47 / 42
p0 −0.6179 ± 6.265
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −60.83
Std Dev 87.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

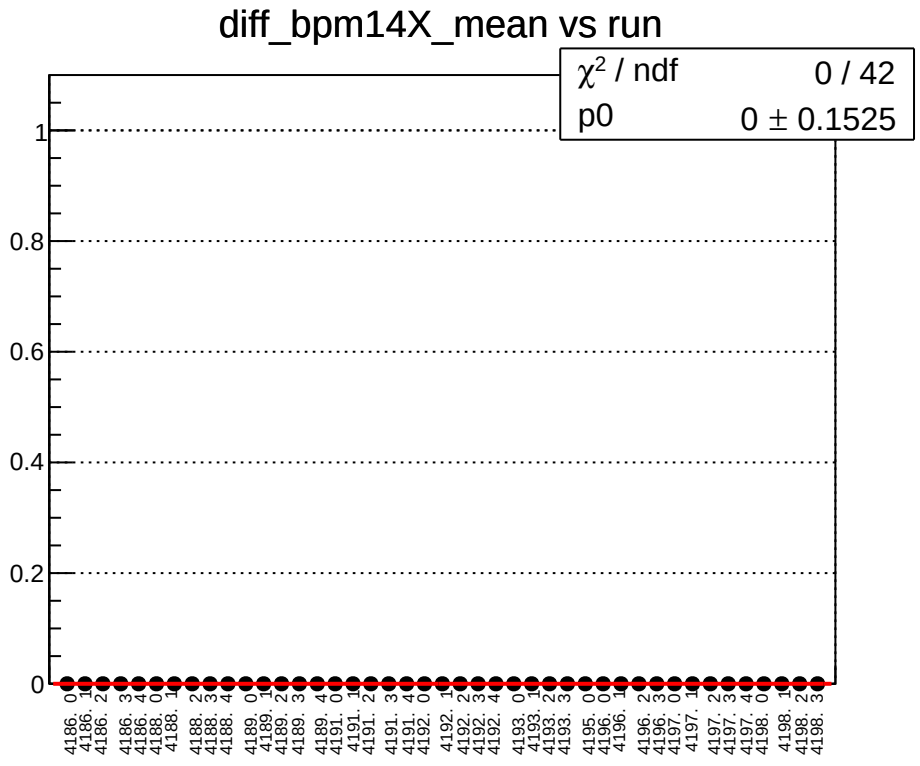

pull1D
Entries 43
Mean 0.02074
Std Dev 0.882
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

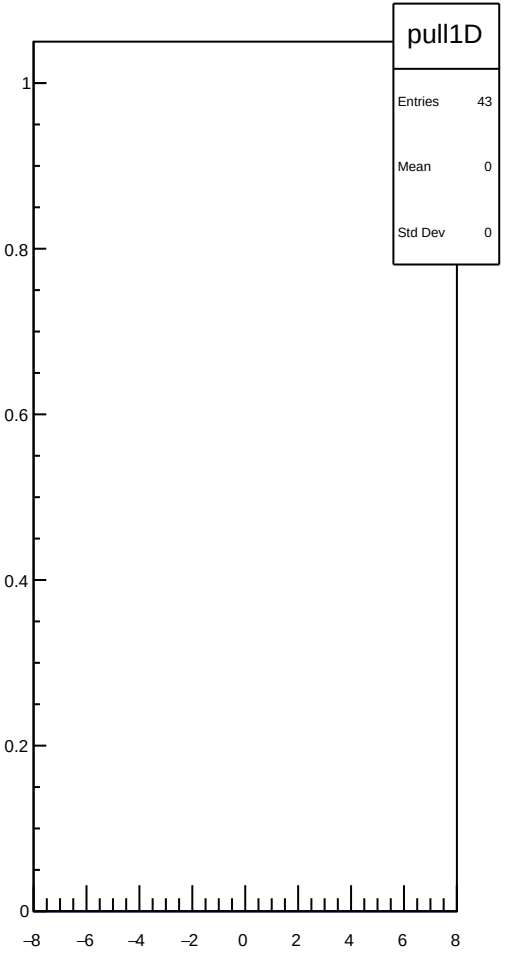

diff_bpm12X_rms vs run
χ² / ndf 255.5 / 42
p0 4128 ± 4.43
4300
4250
4200
4150
4100
4050
4000
3950
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

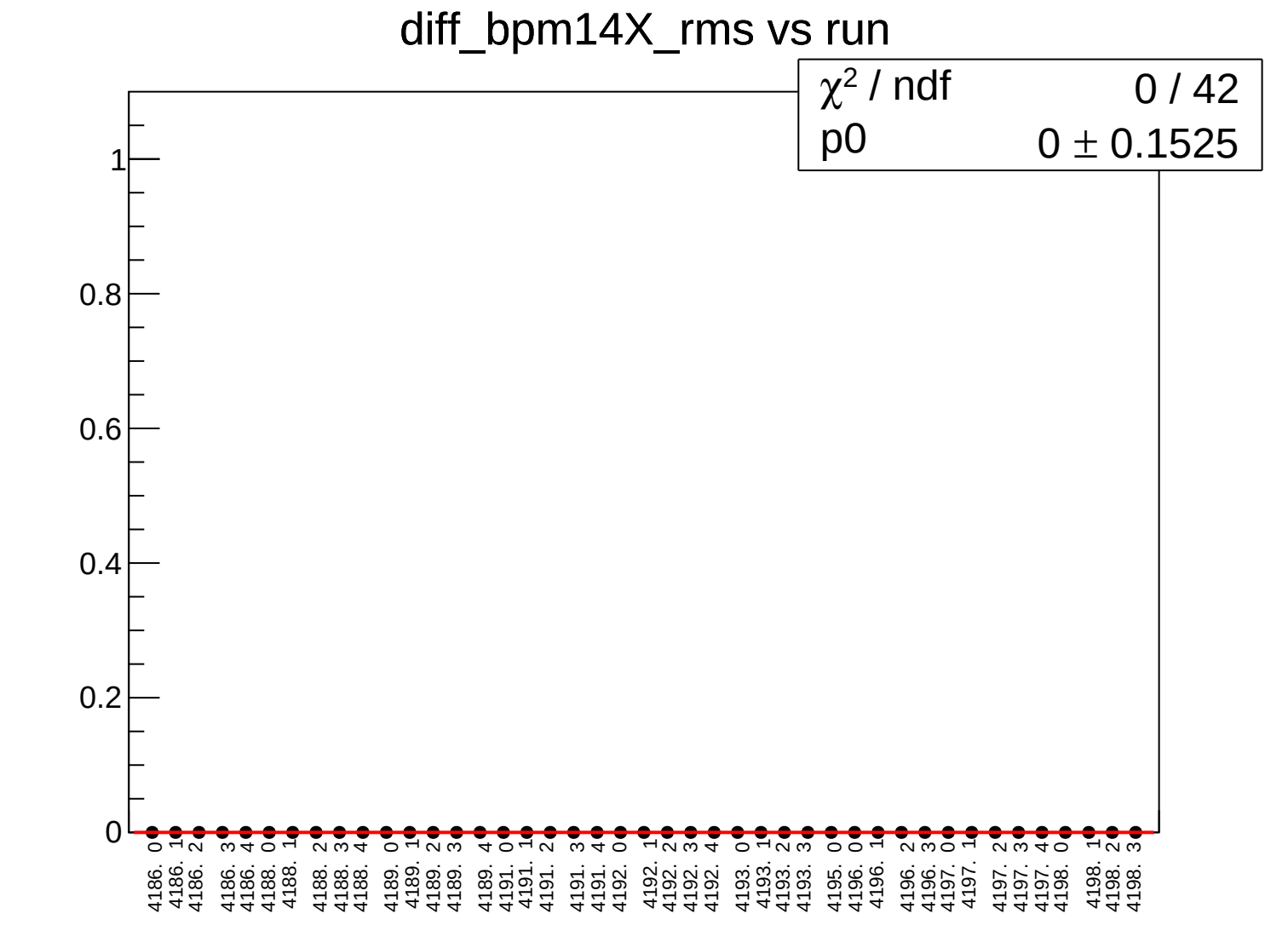

diff_bpm12Y_mean vs run
χ^2 / ndf 41.57 / 42
p0 2.467 ± 5.987
150
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 334.6
Std Dev 315.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

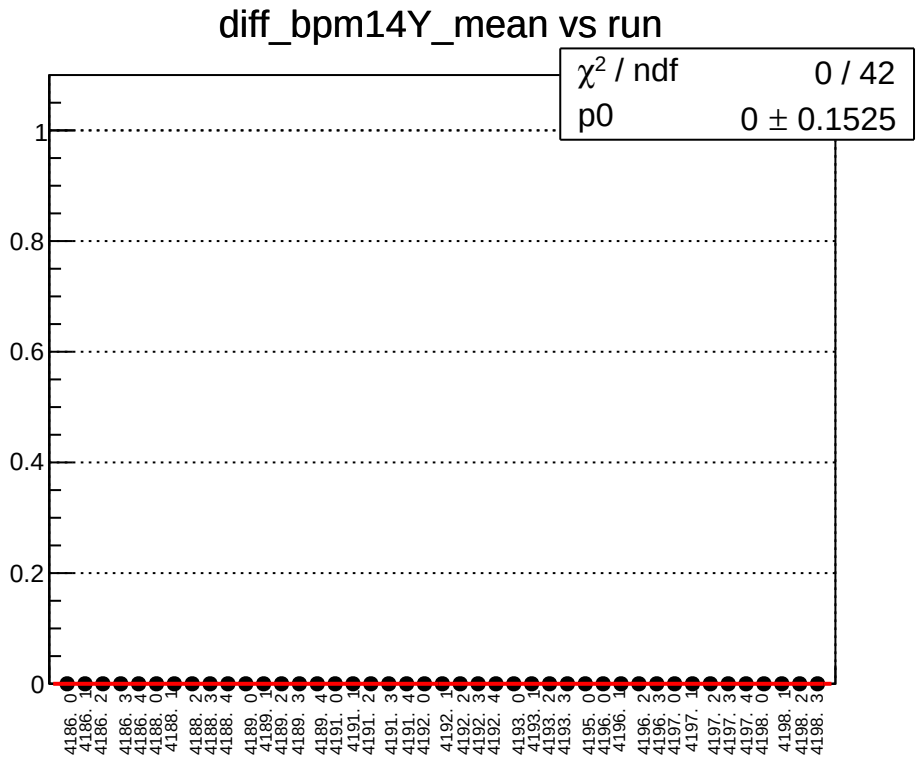

pull1D
Entries 43
Mean 0.006427
Std Dev 0.9832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

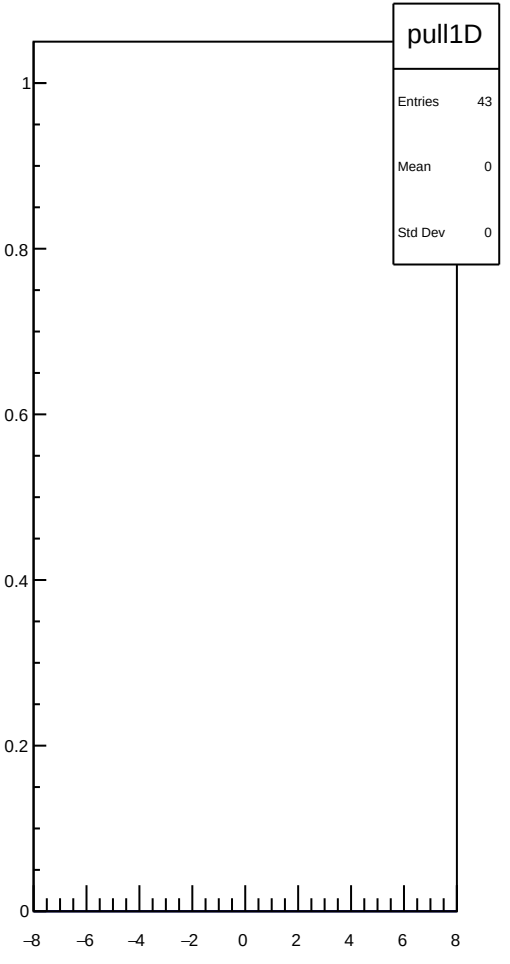

diff_bpm12Y_rms vs run
χ² / ndf 2267 / 42
p0 3941 ± 4.233
4400
4200
4000
3800
3600
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

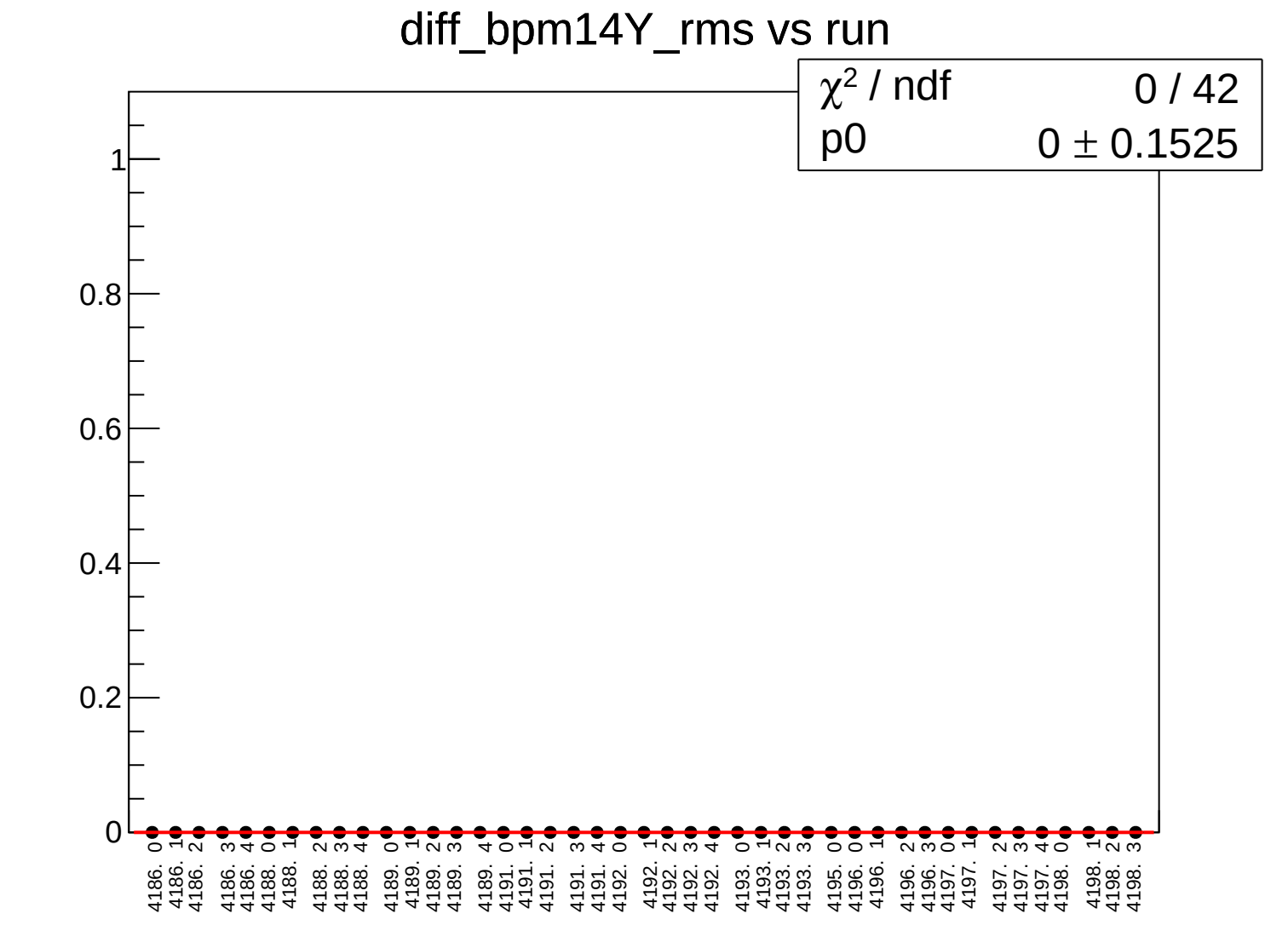

diff_bpm14X_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

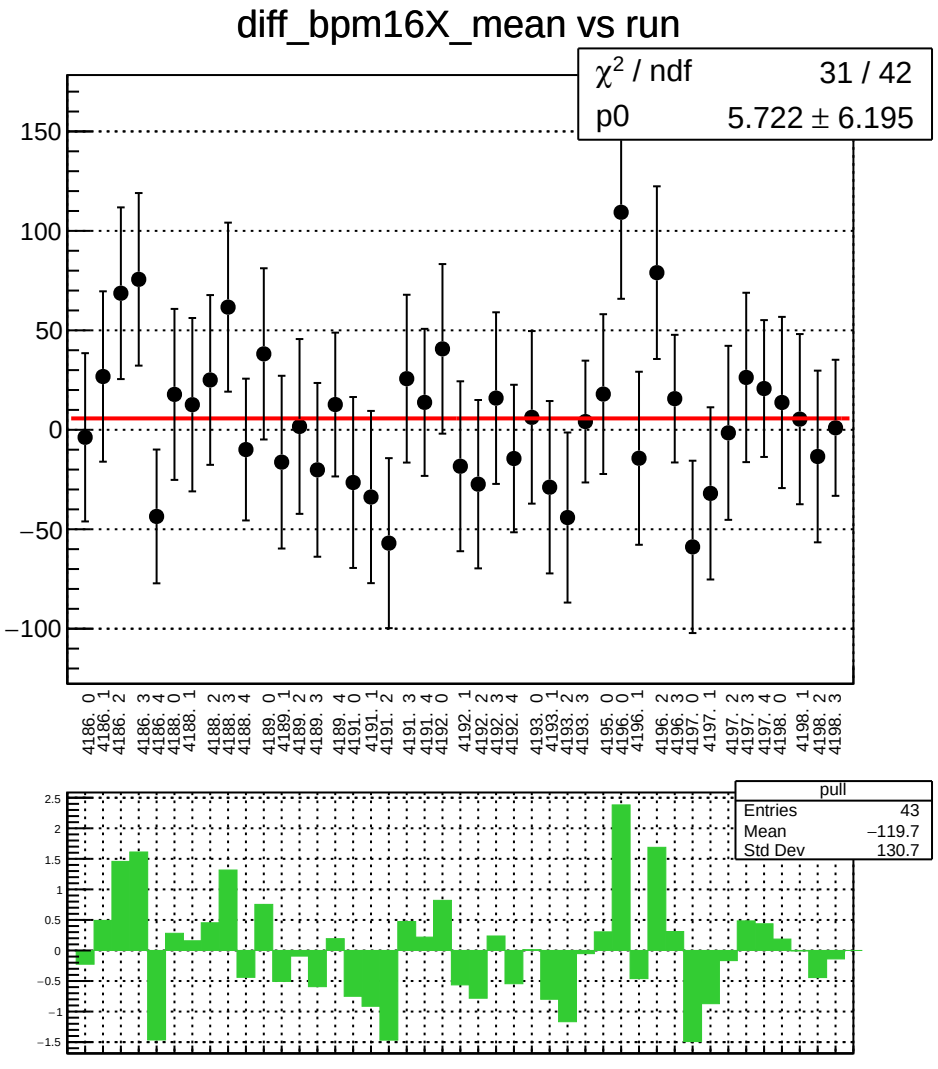

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

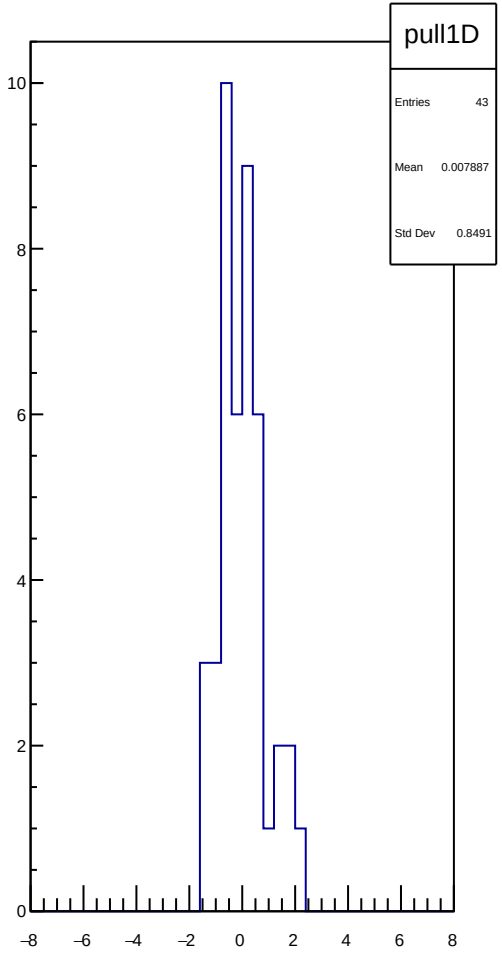

diff_bpm14X_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

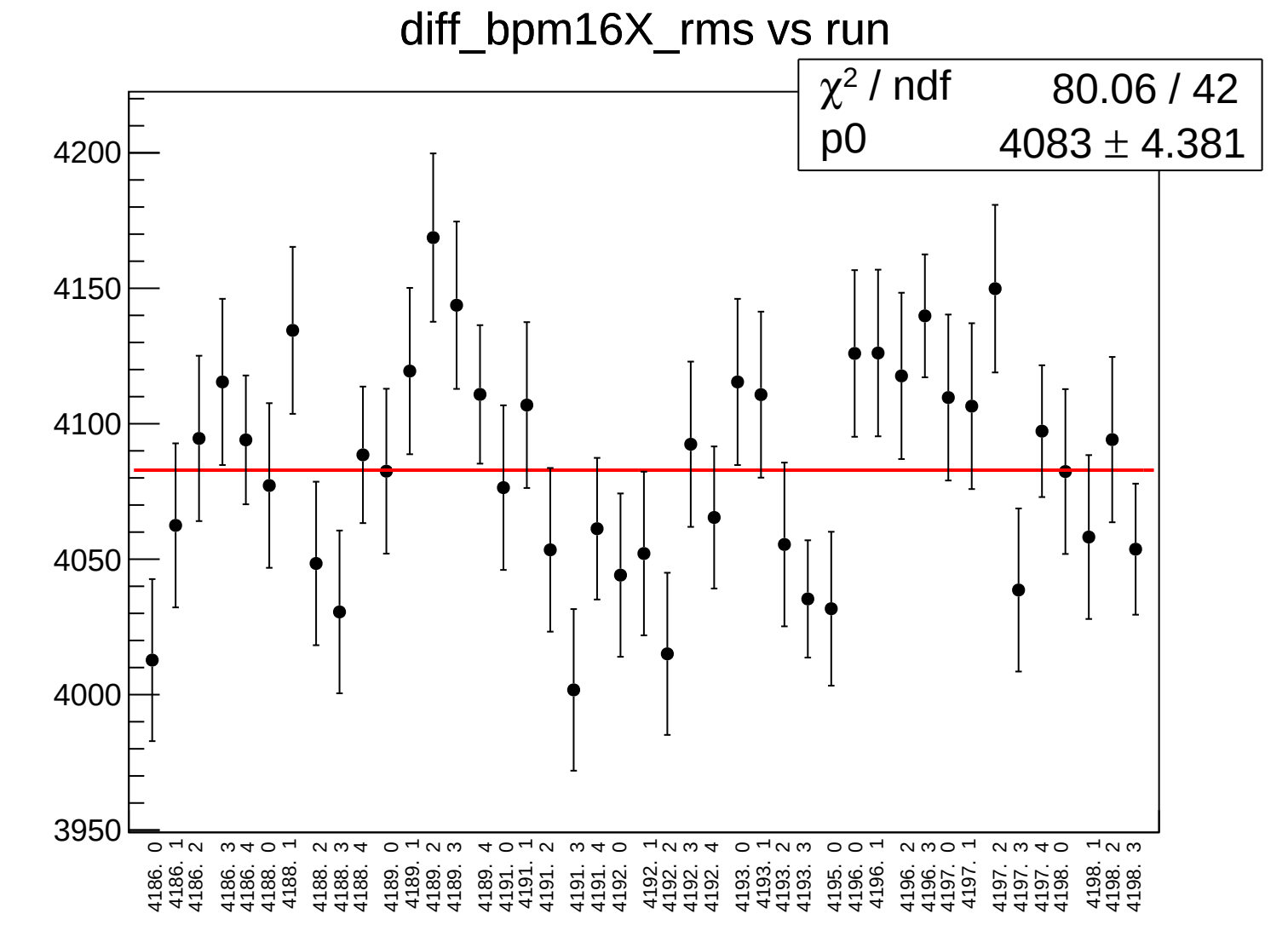

diff_bpm14Y_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

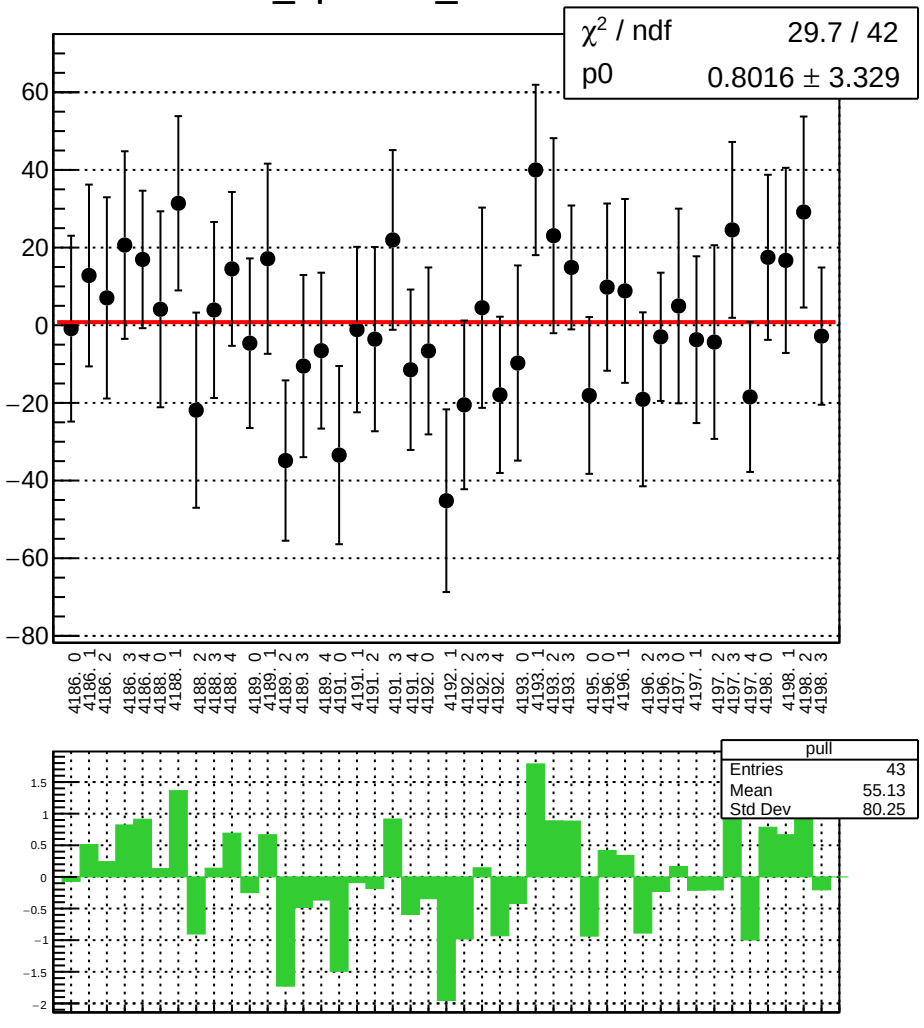

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

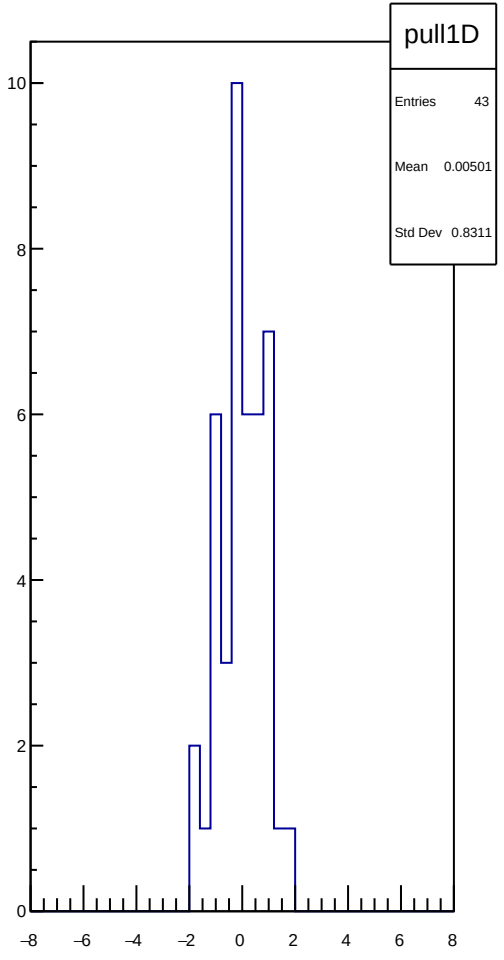

diff_bpm14Y_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

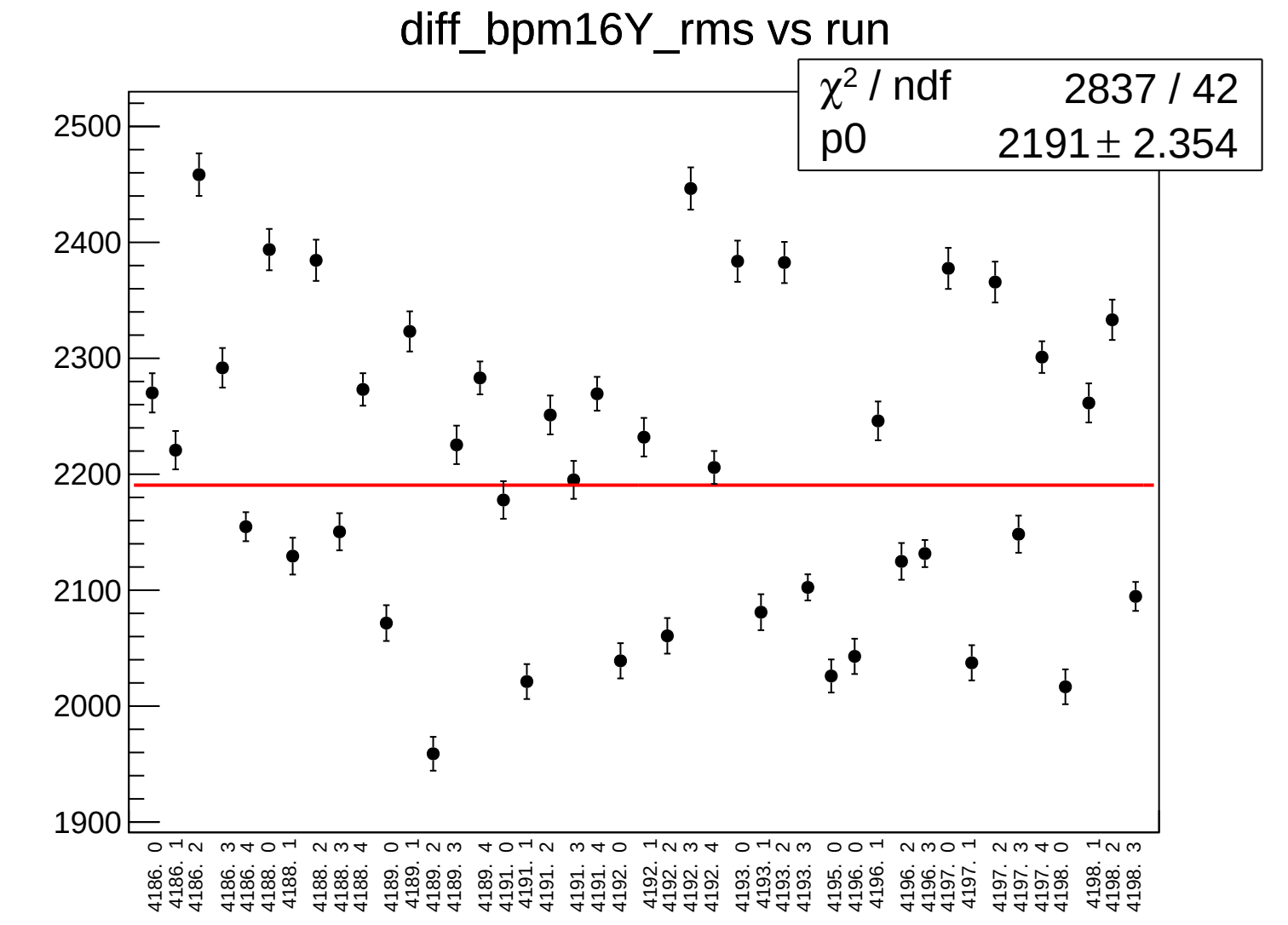

diff_bpm16X_mean vs run
χ^2 / ndf 31 / 42
p0 5.722 ± 6.195
150
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −119.7
Std Dev 130.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

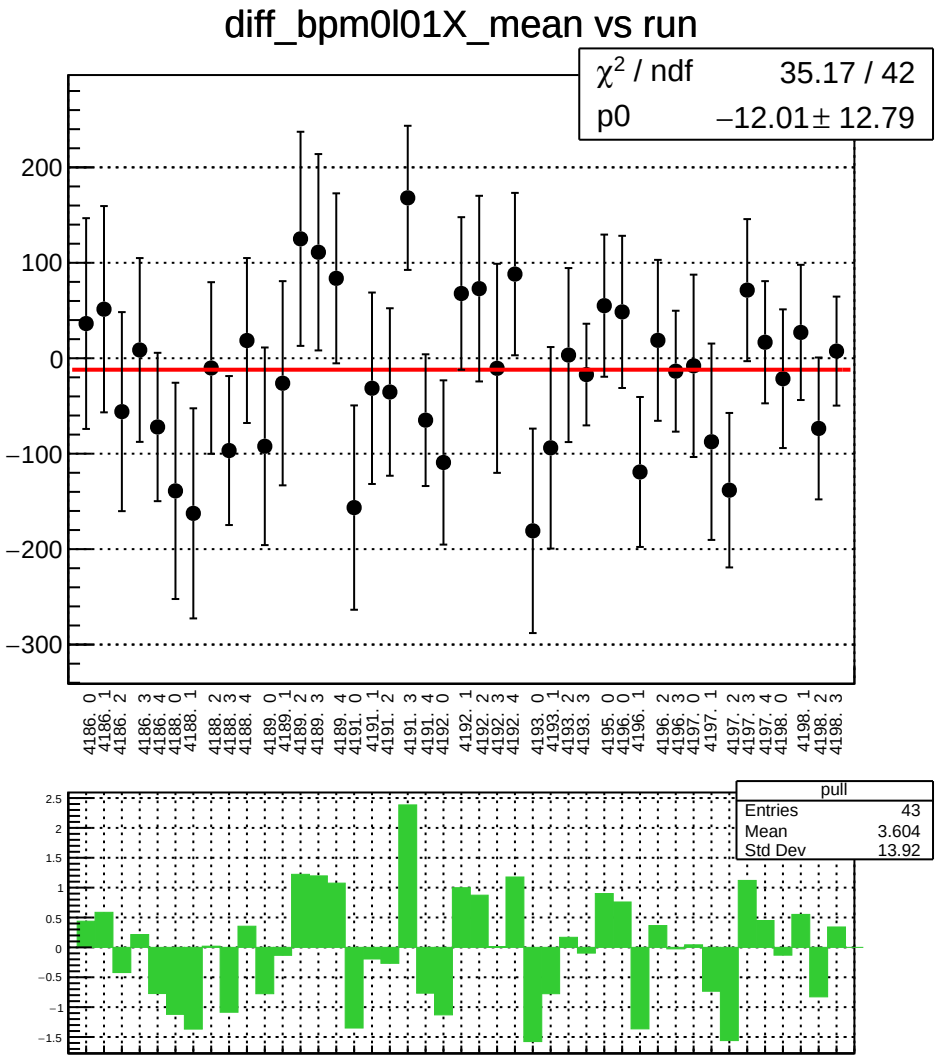

pull1D
Entries 43
Mean 0.007887
Std Dev 0.8491
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

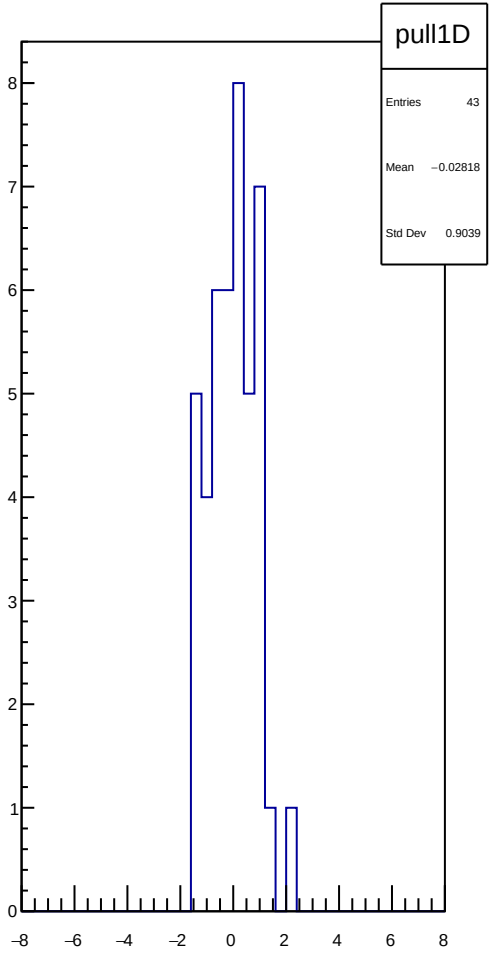

diff_bpm16X_rms vs run
χ² / ndf 80.06 / 42
p0 4083 ± 4.381
4200
4150
4100
4050
4000
3950
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

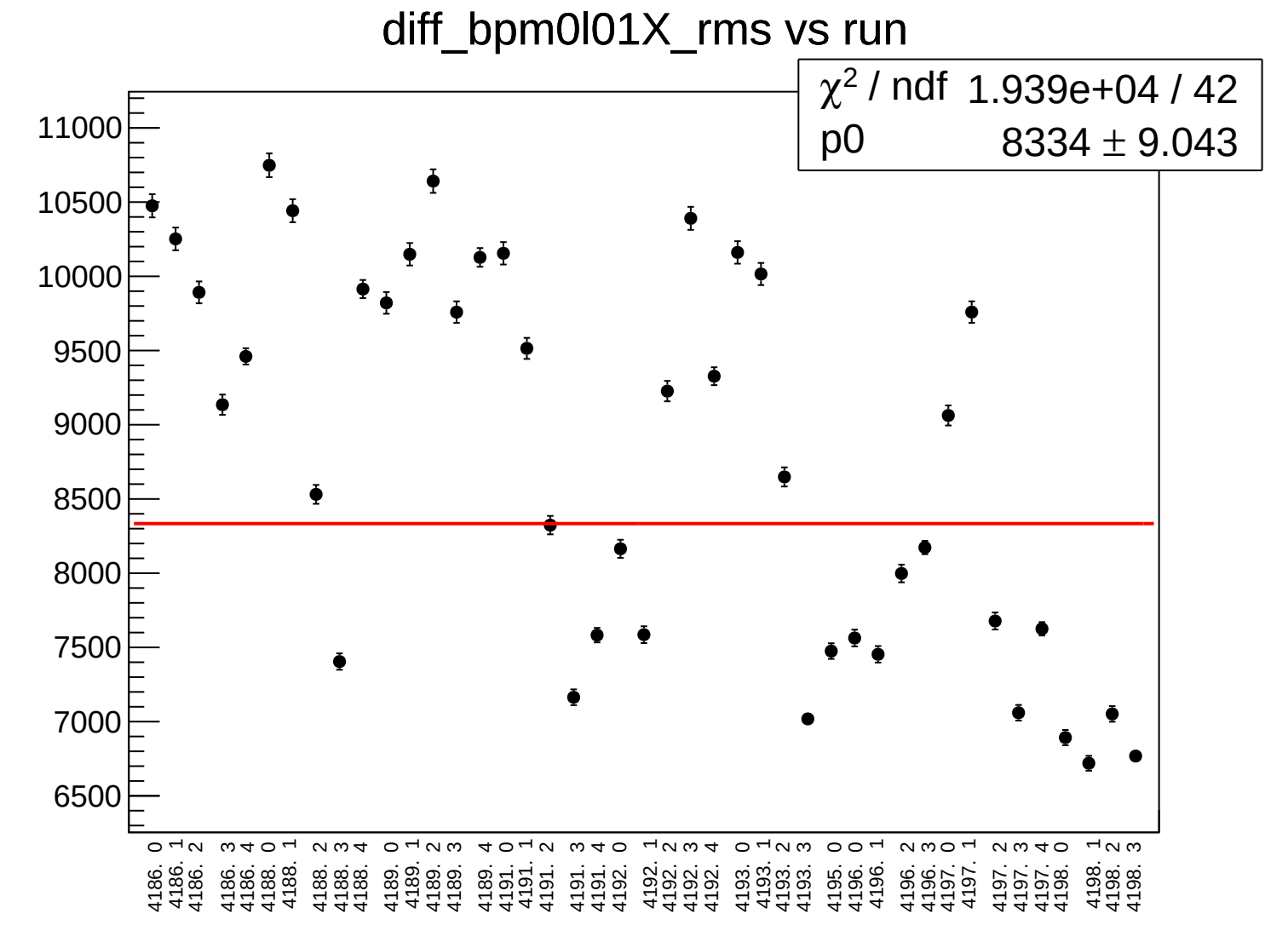

diff_bpm16Y_mean vs run
χ² / ndf 29.7 / 42
p0 0.8016 ± 3.329
pull
Entries 43
Mean 55.13
Std Dev 80.25

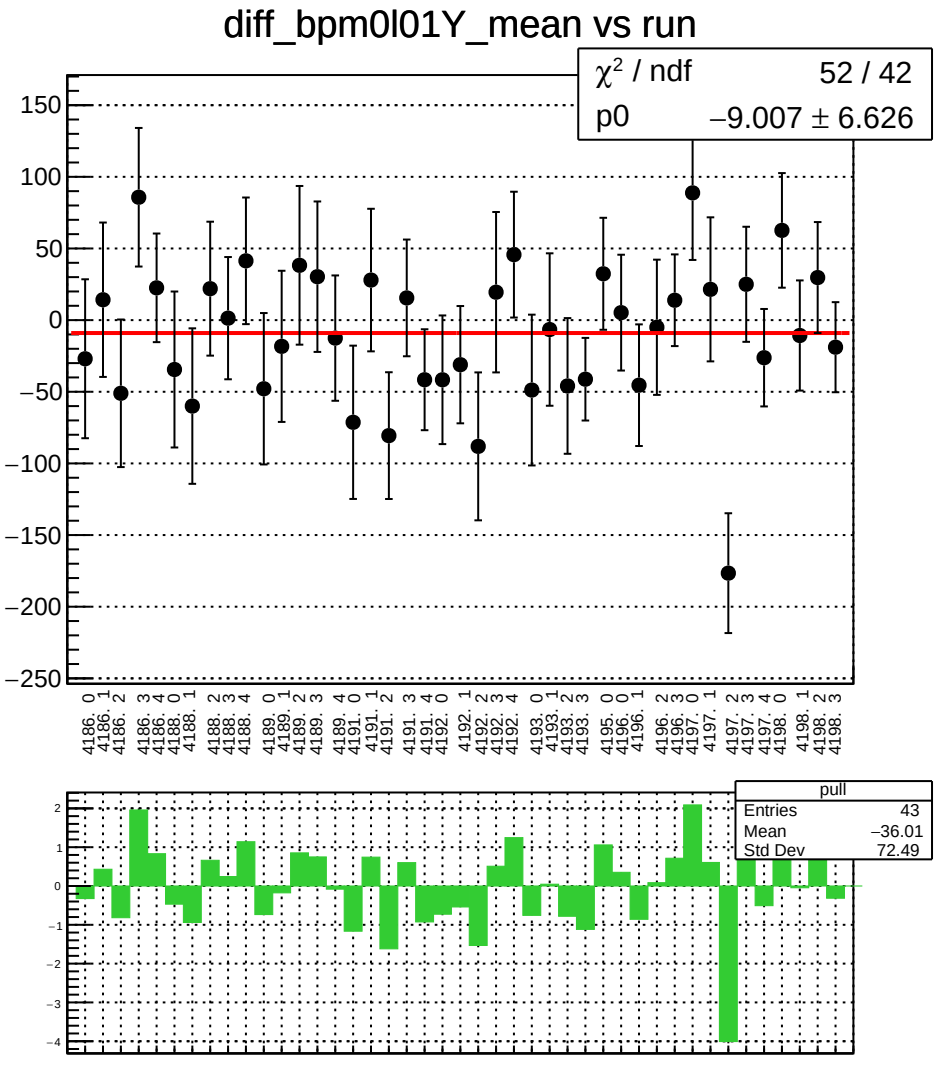

pull1D
Entries 43
Mean 0.00501
Std Dev 0.8311

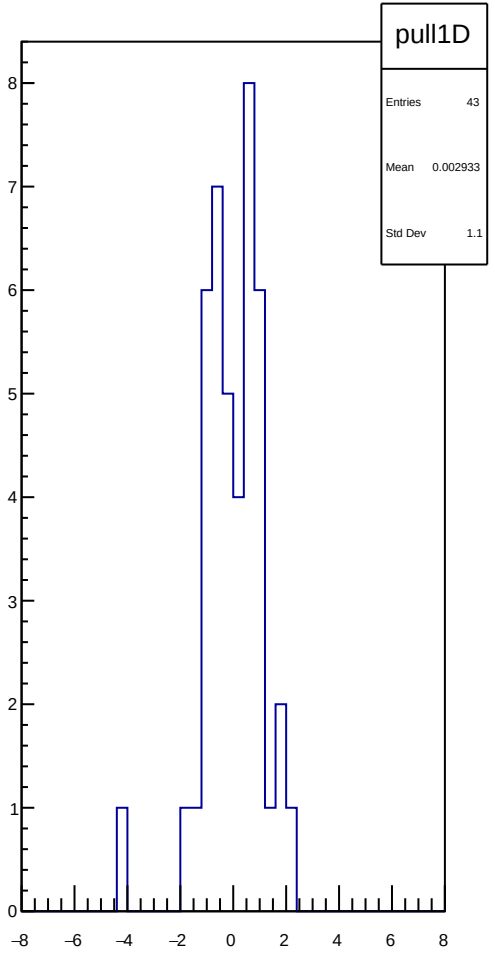

diff_bpm16Y_rms vs run
χ² / ndf 2837 / 42
p0 2191 ± 2.354
2500
2400
2300
2200
2100
2000
1900
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

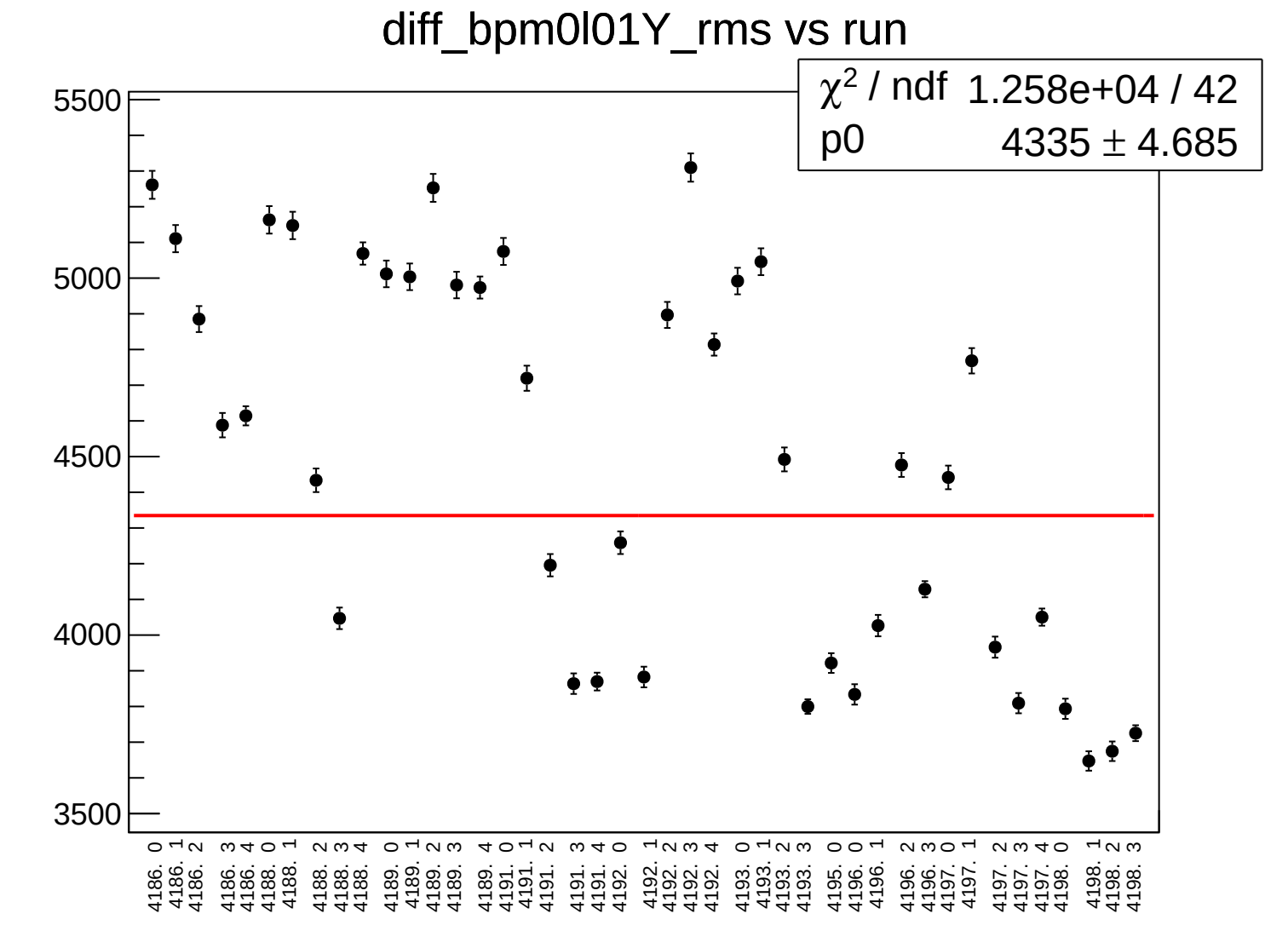

diff_bpm0l01X_mean vs run
χ² / ndf 35.17 / 42
p0 −12.01 ± 12.79
200
100
0
−100
−200
−300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 3.604
Std Dev 13.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

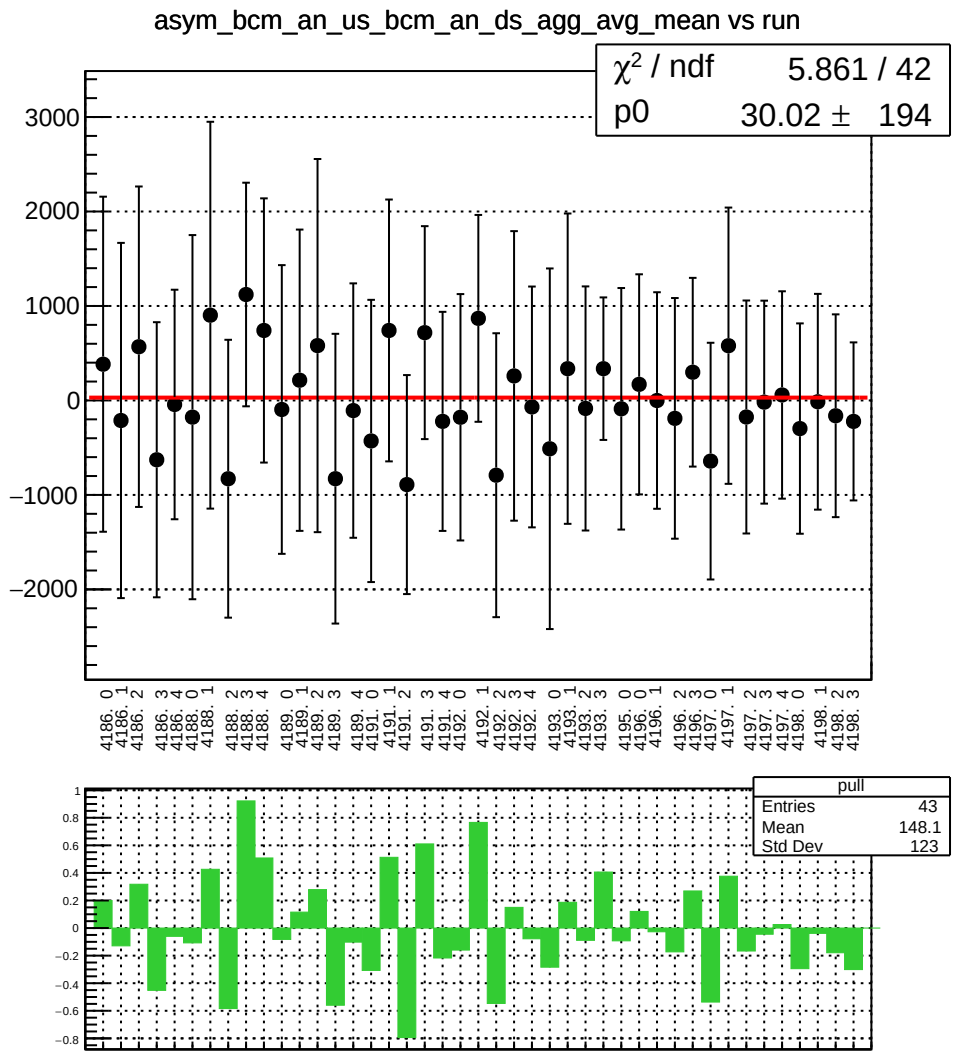

pull1D
Entries 43
Mean −0.02818
Std Dev 0.9039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

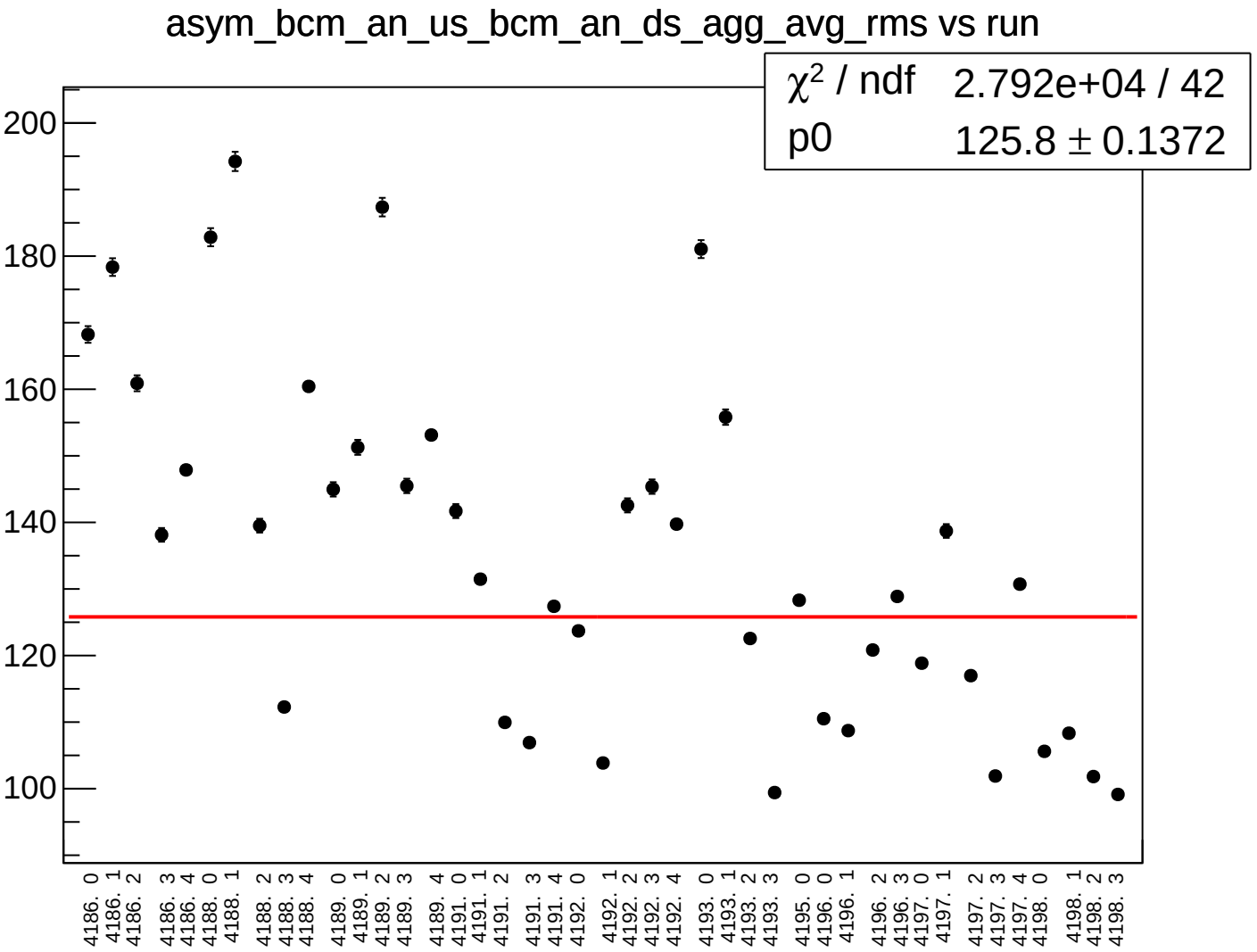

diff_bpm0l01X_rms vs run
χ² / ndf 1.939e+04 / 42
p0 8334 ± 9.043
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

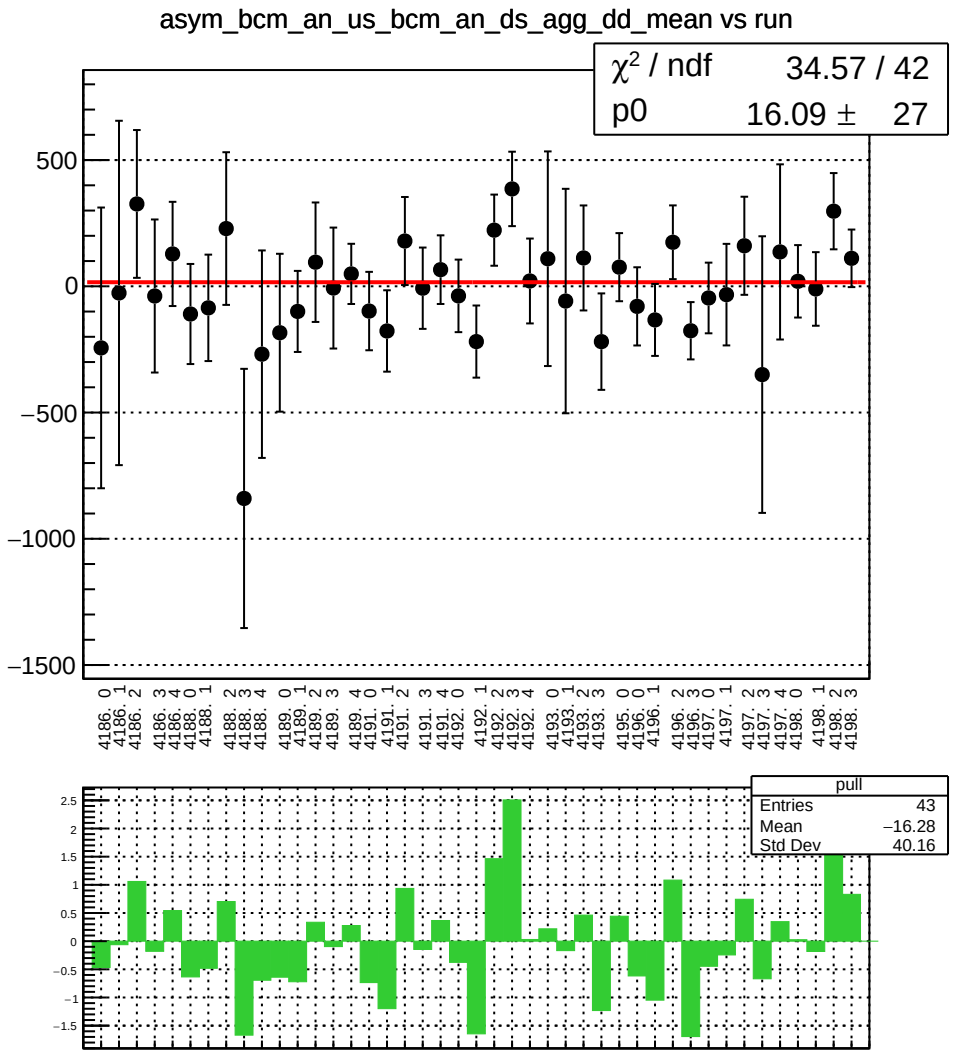

diff_bpm0l01Y_mean vs run
χ² / ndf 52 / 42
p0 −9.007 ± 6.626
150
100
50
0
−50
−100
−150
−200
−250
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −36.01
Std Dev 72.49
2
1
0
−1
−2
−3
−4

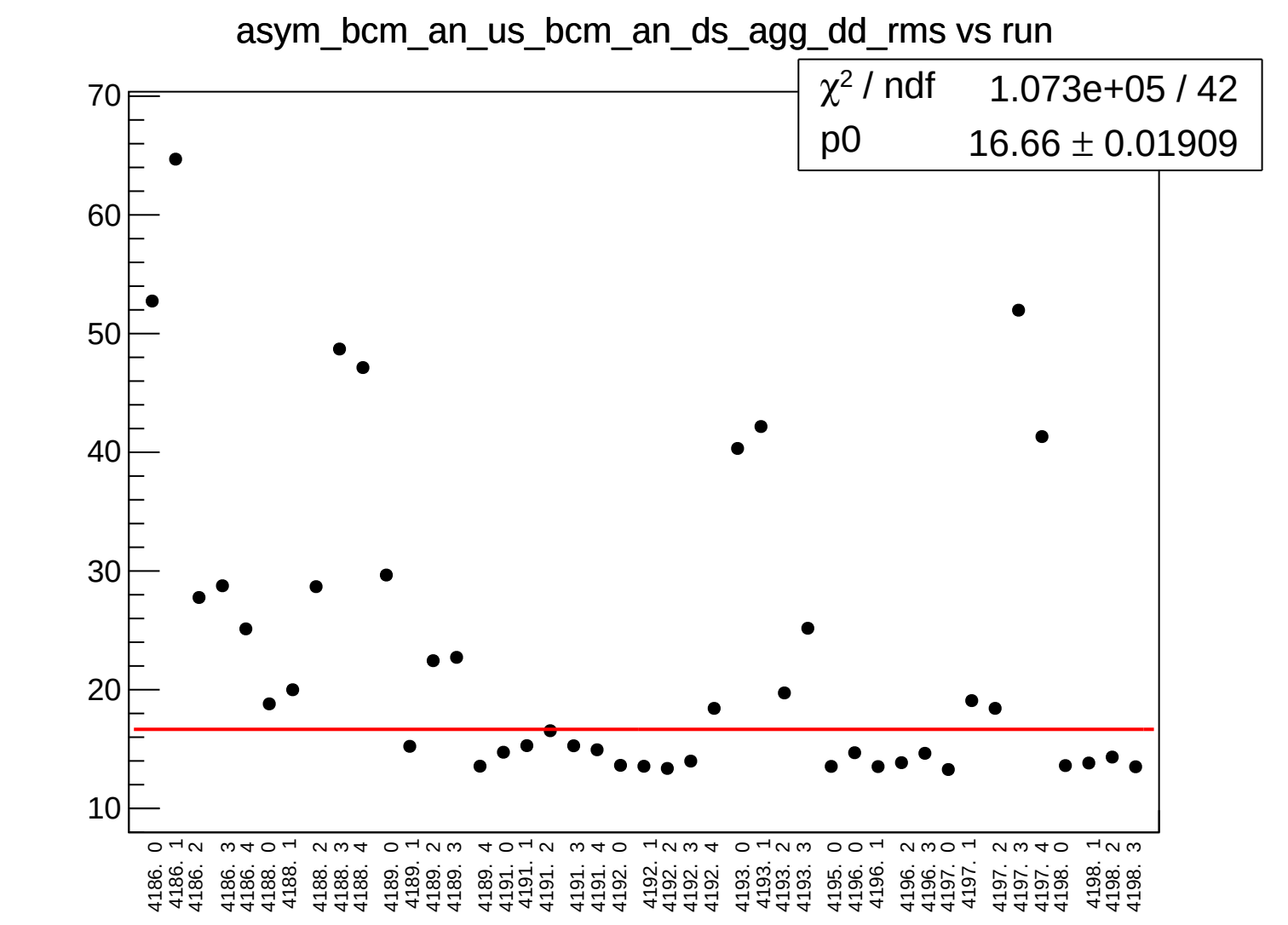

pull1D
Entries 43
Mean 0.002933
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

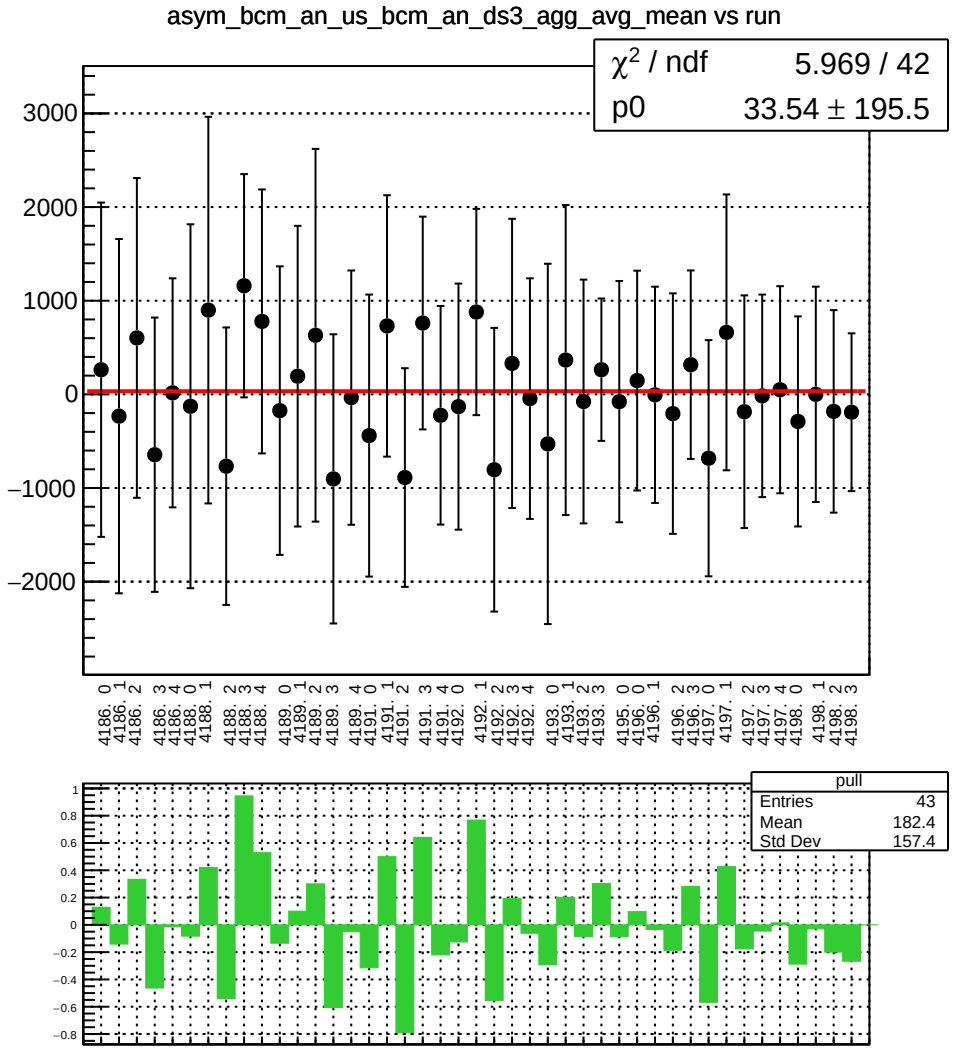

diff_bpm0l01Y_rms vs run
χ² / ndf 1.258e+04 / 42
p0 4335 ± 4.685
5500
5000
4500
4000
3500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

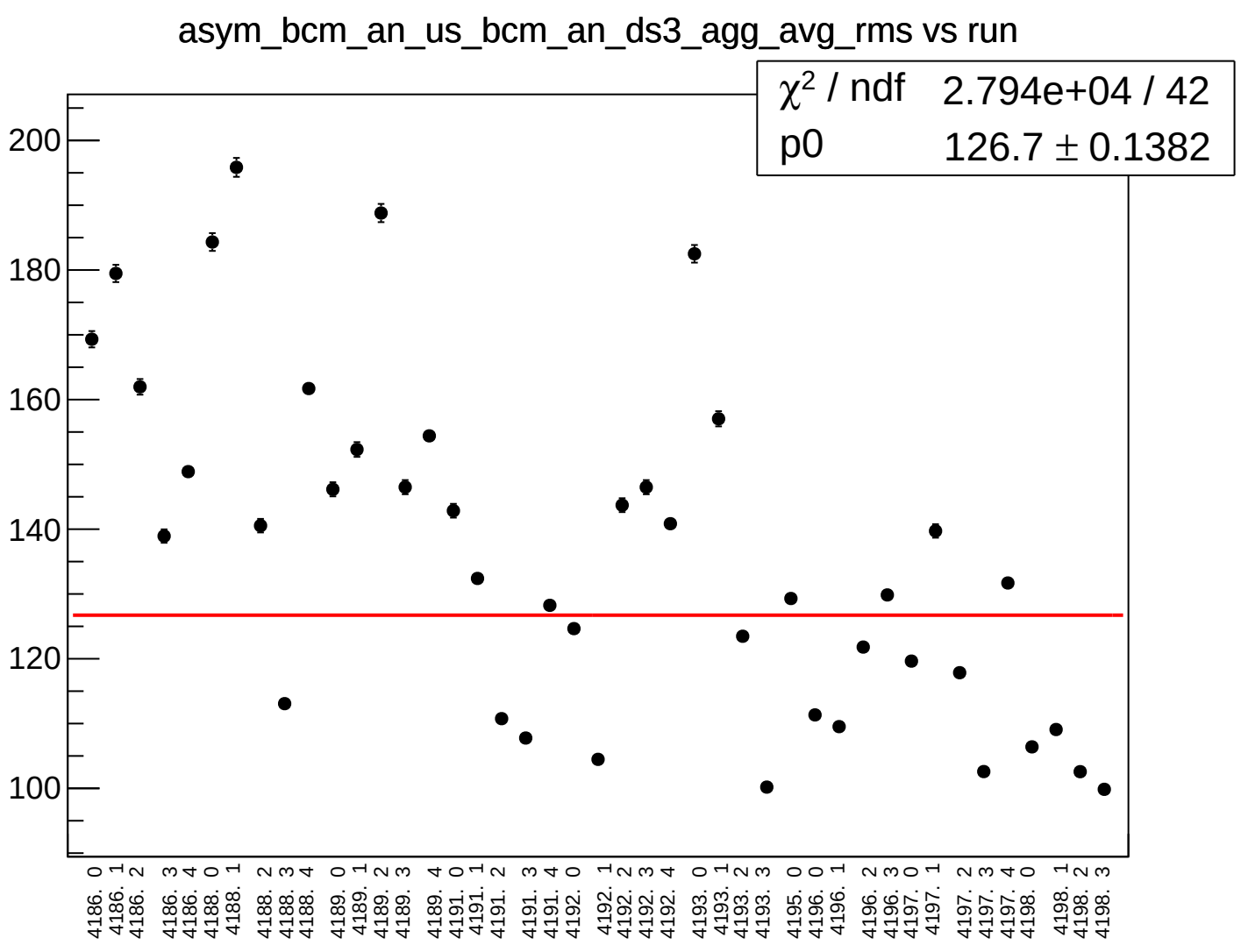

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.861 / 42
p0 30.02 ± 194
3000
2000
1000
0
−1000
−2000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 148.1
Std Dev 123
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.004926
Std Dev 0.3691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

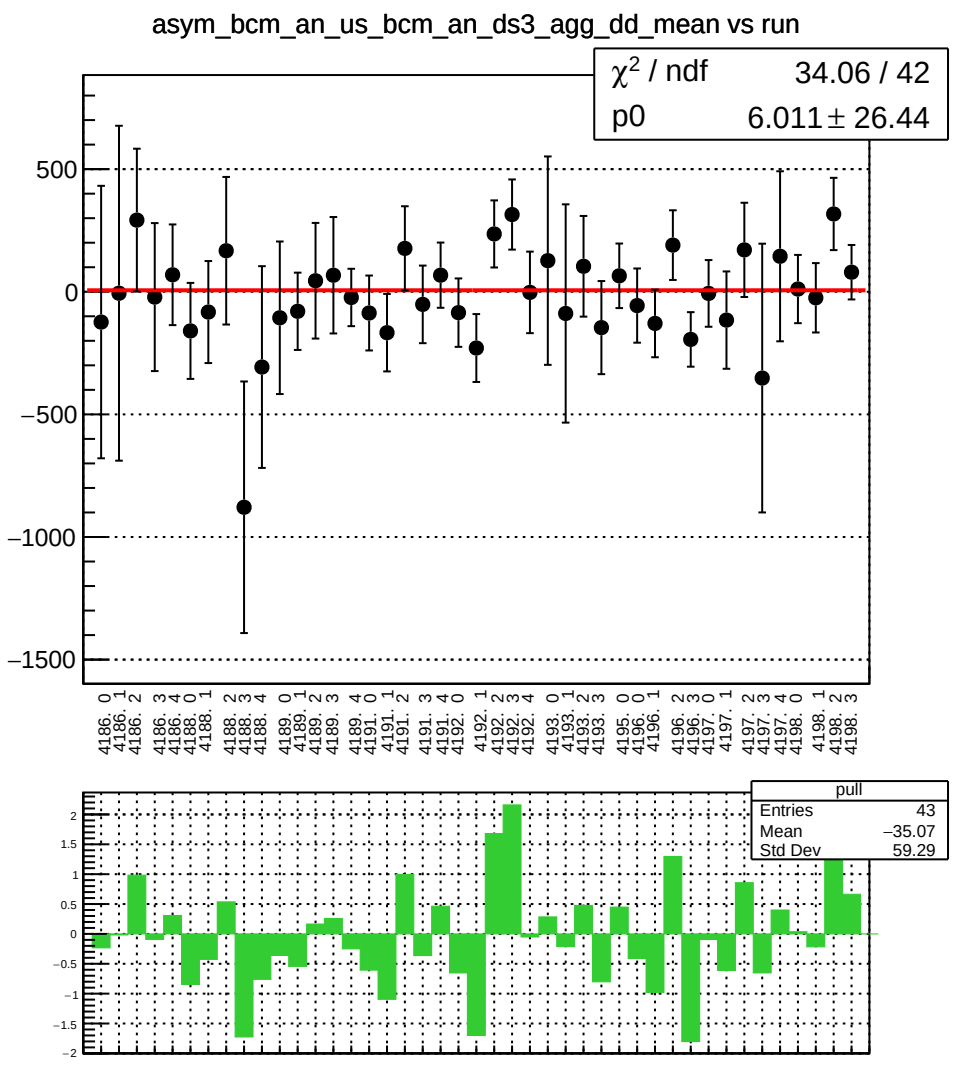

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.792e+04 / 42
p0 125.8 ± 0.1372
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

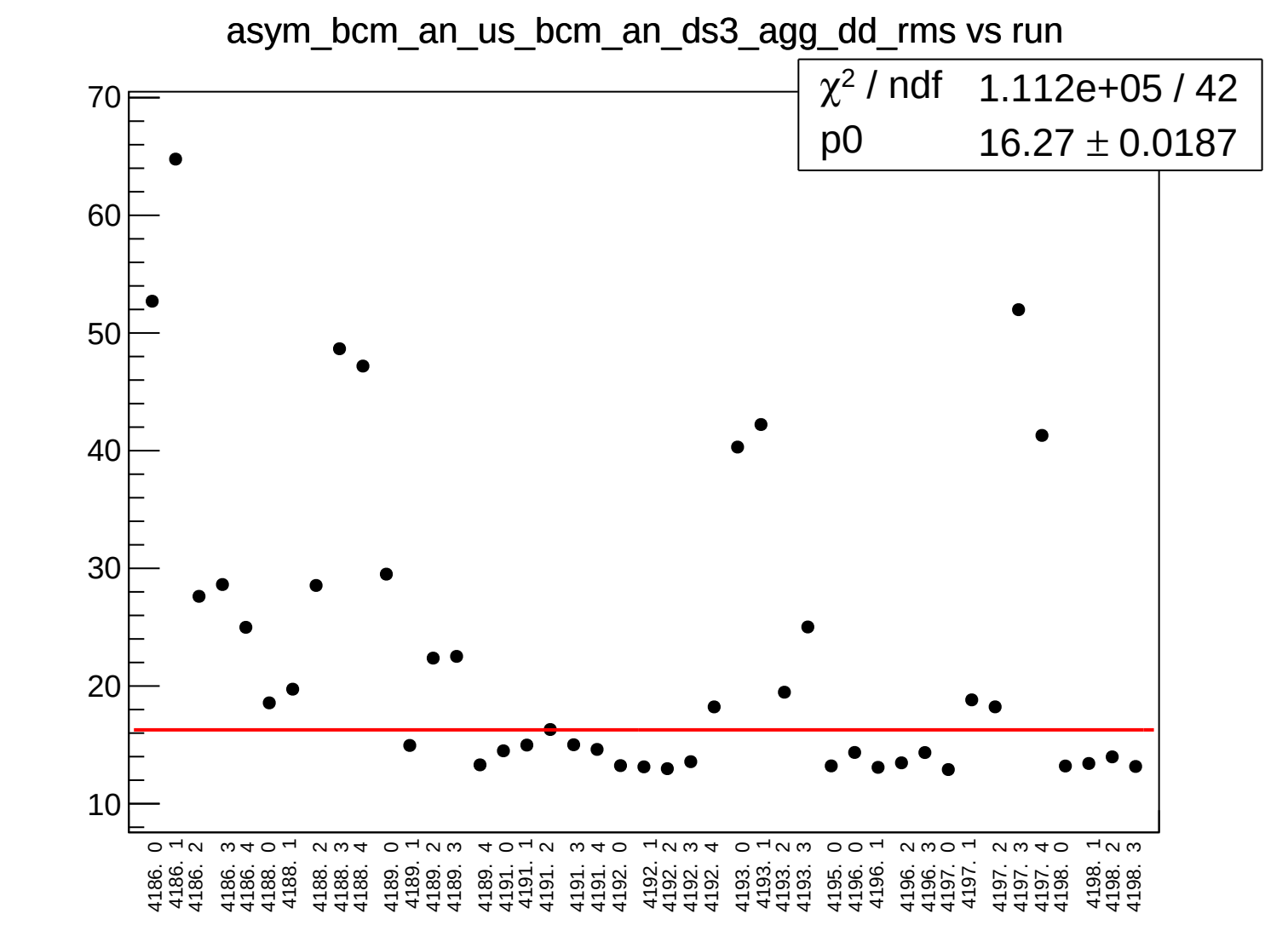

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 34.57 / 42
p0 16.09 ± 27
500
0
−500
−1000
−1500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −16.28
Std Dev 40.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.04186
Std Dev 0.8957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

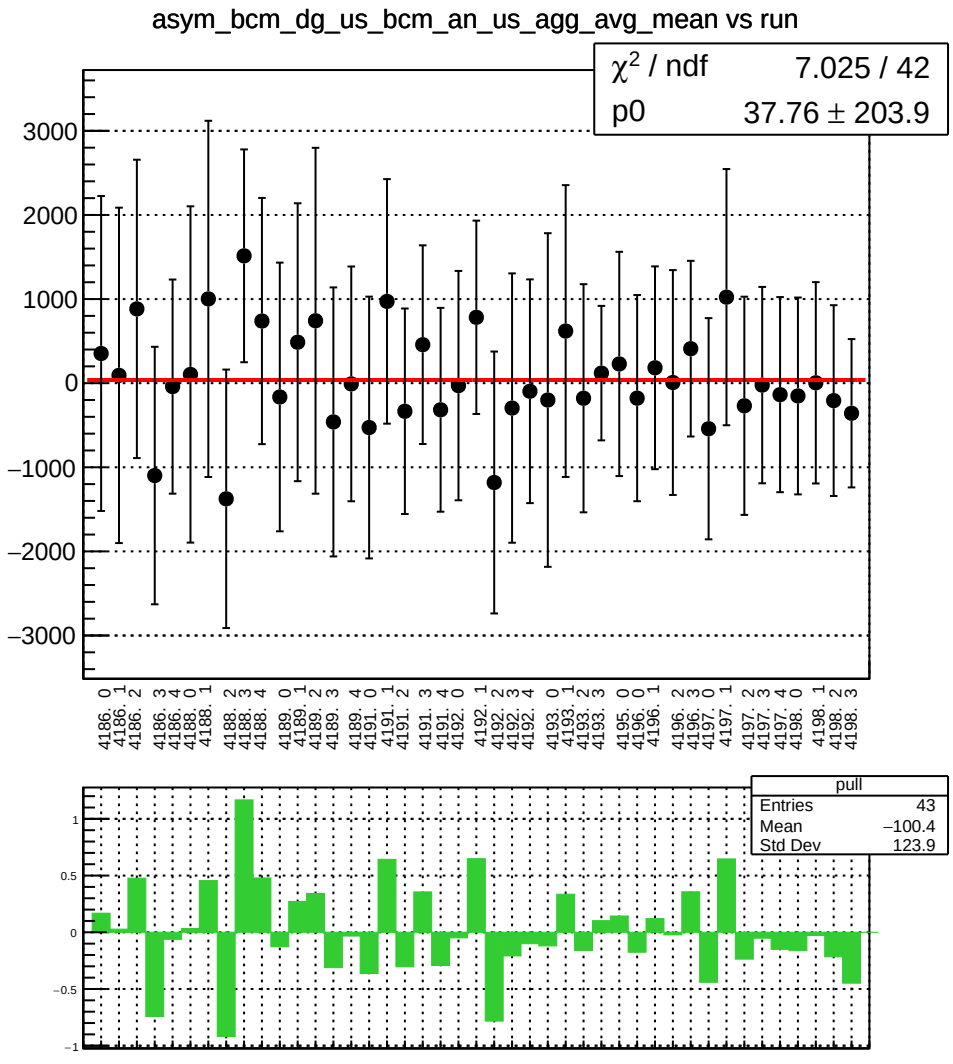

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.073e+05 / 42
p0 16.66 ± 0.01909
70
60
50
40
30
20
10
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

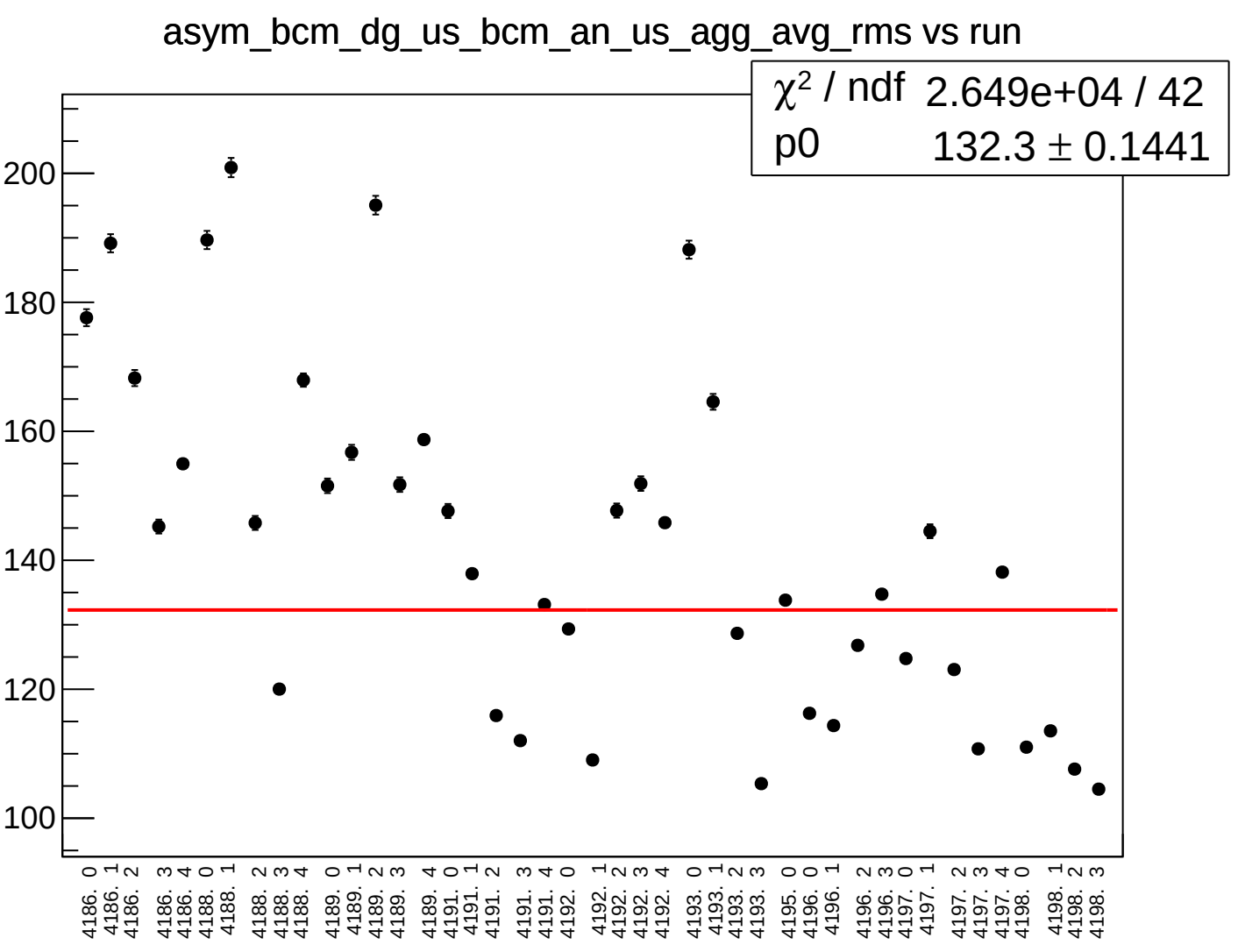

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 5.969 / 42
p0 33.54 ± 195.5
3000
2000
1000
0
−1000
−2000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 182.4
Std Dev 157.4
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.003912
Std Dev 0.3726
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

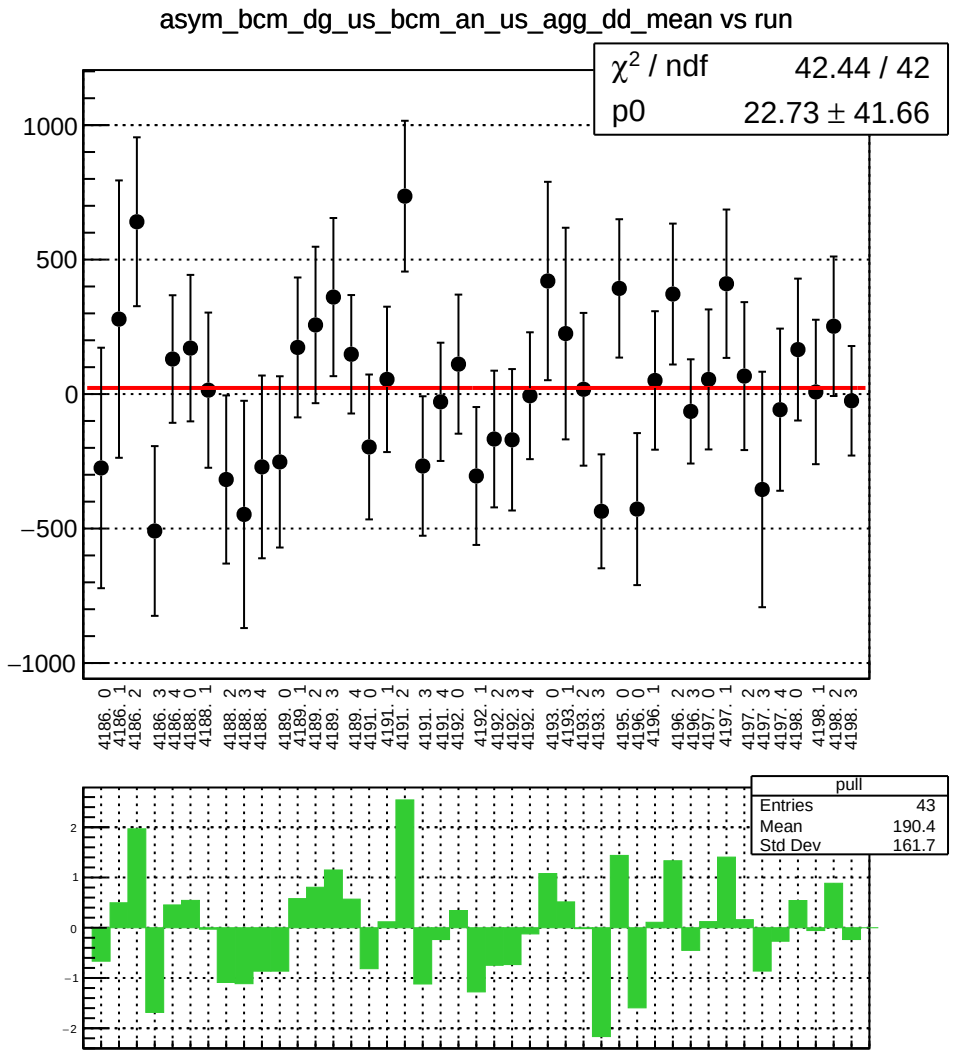

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.794e+04 / 42
p0 126.7 ± 0.1382
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

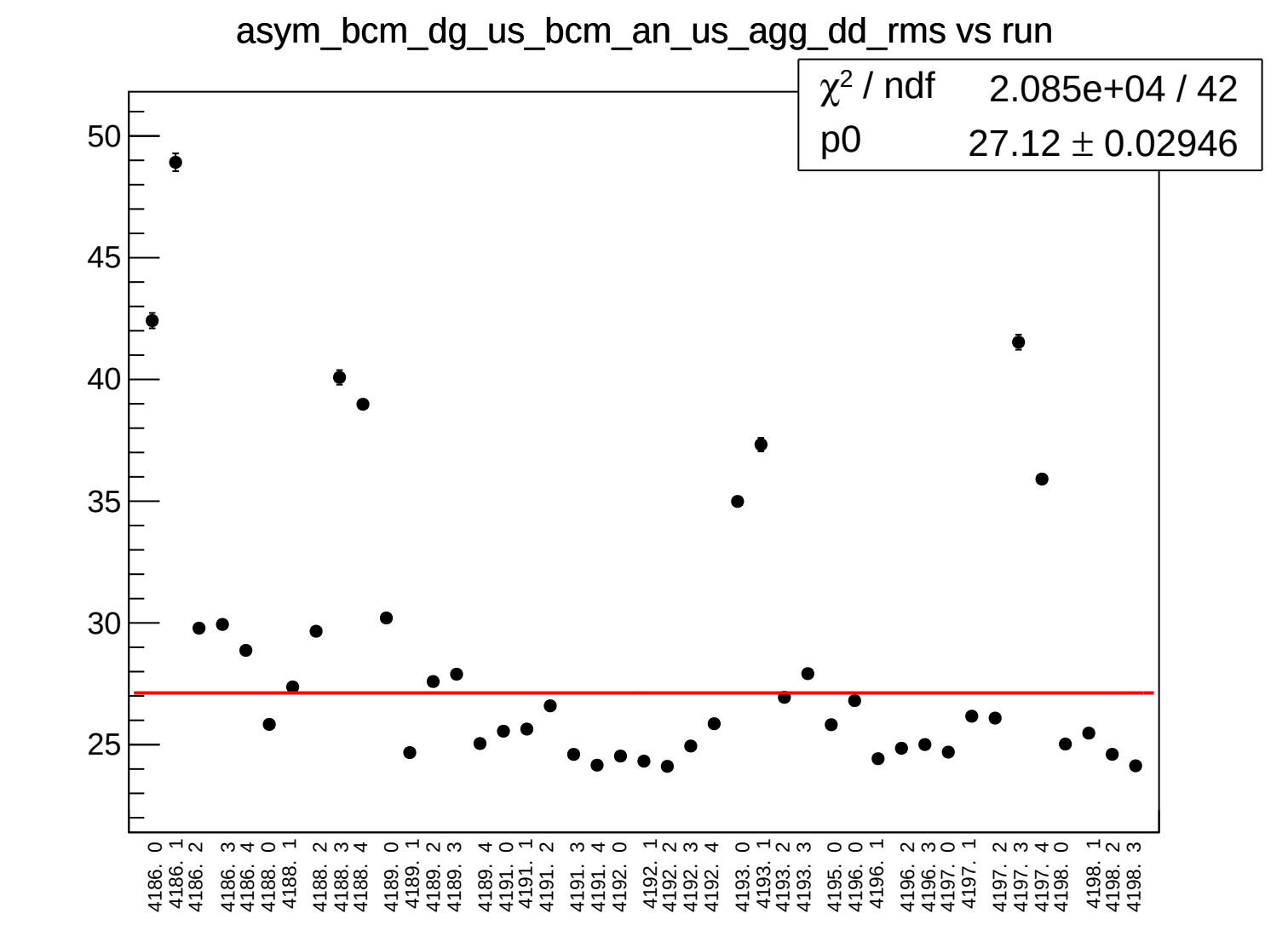

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 34.06 / 42
p0 6.011 ± 26.44
500
0
−500
−1000
−1500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −35.07
Std Dev 59.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0323
Std Dev 0.8894
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

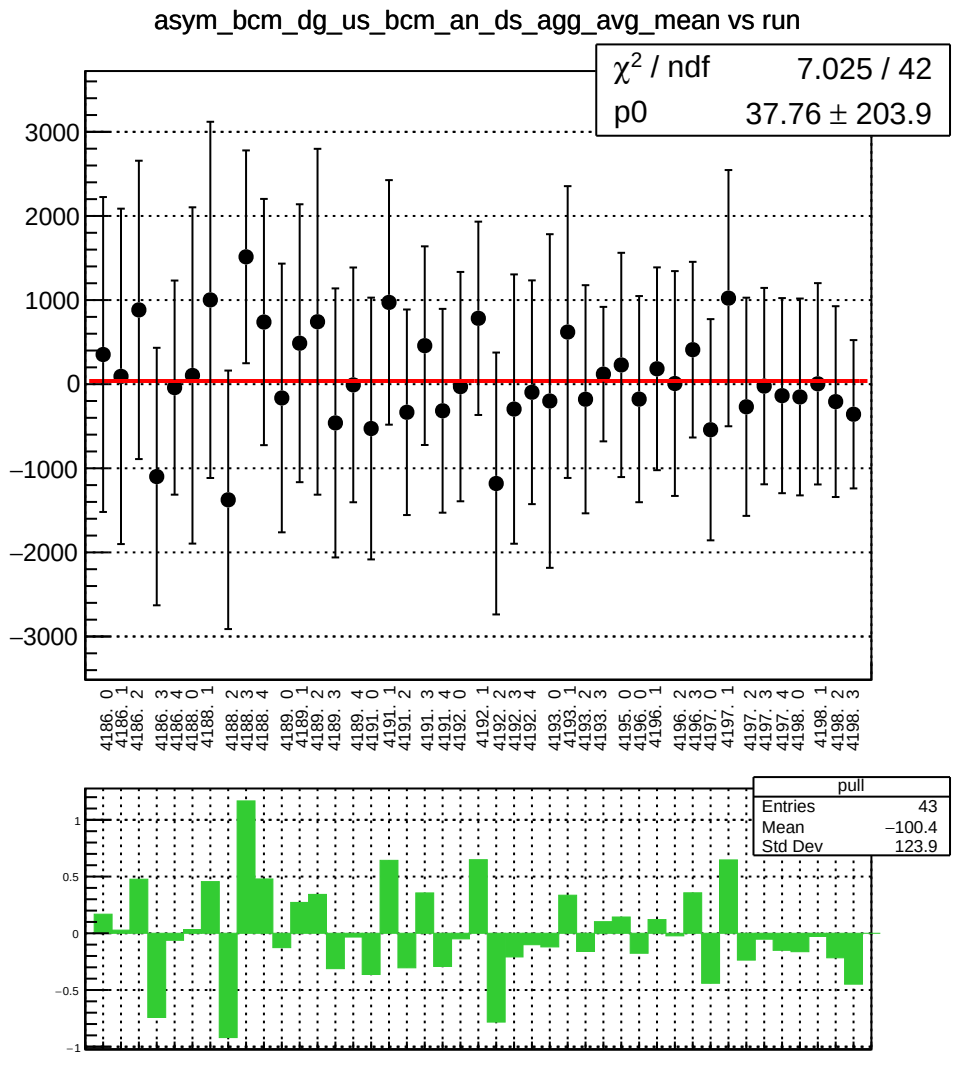

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.112e+05 / 42
p0 16.27 ± 0.0187
70
60
50
40
30
20
10
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

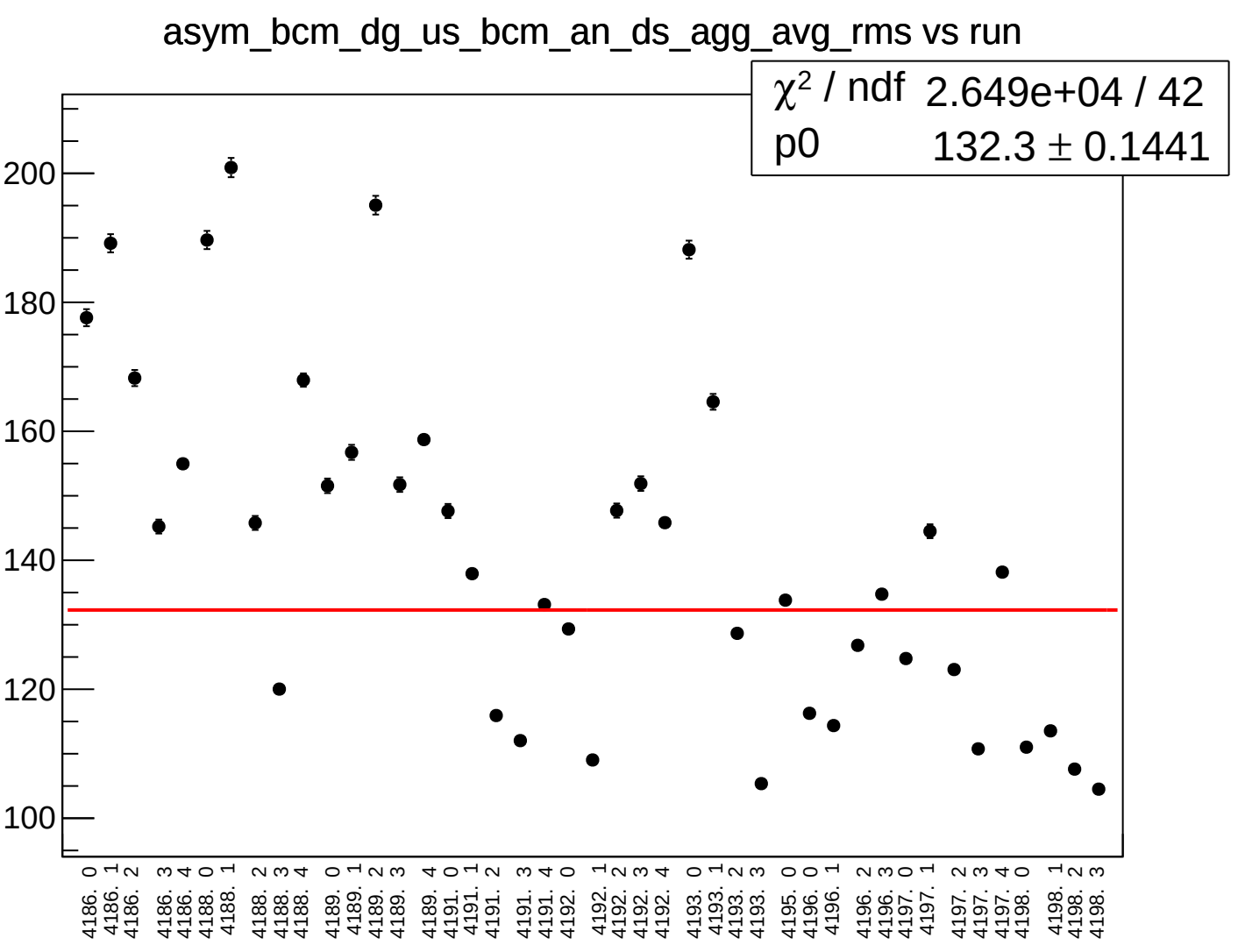

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.025 / 42
p0 37.76 ± 203.9
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −100.4
Std Dev 123.9
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.006223
Std Dev 0.4041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

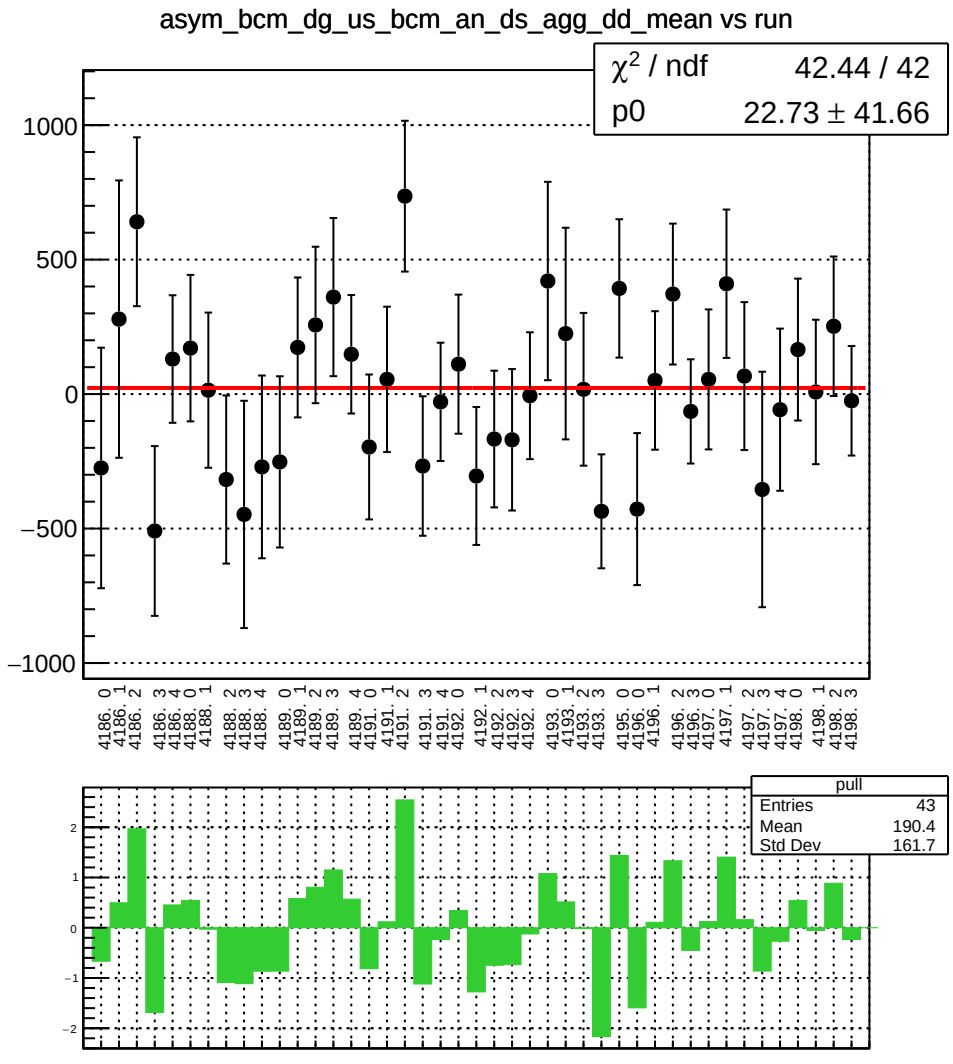

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.649e+04 / 42
p0 132.3 ± 0.1441
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

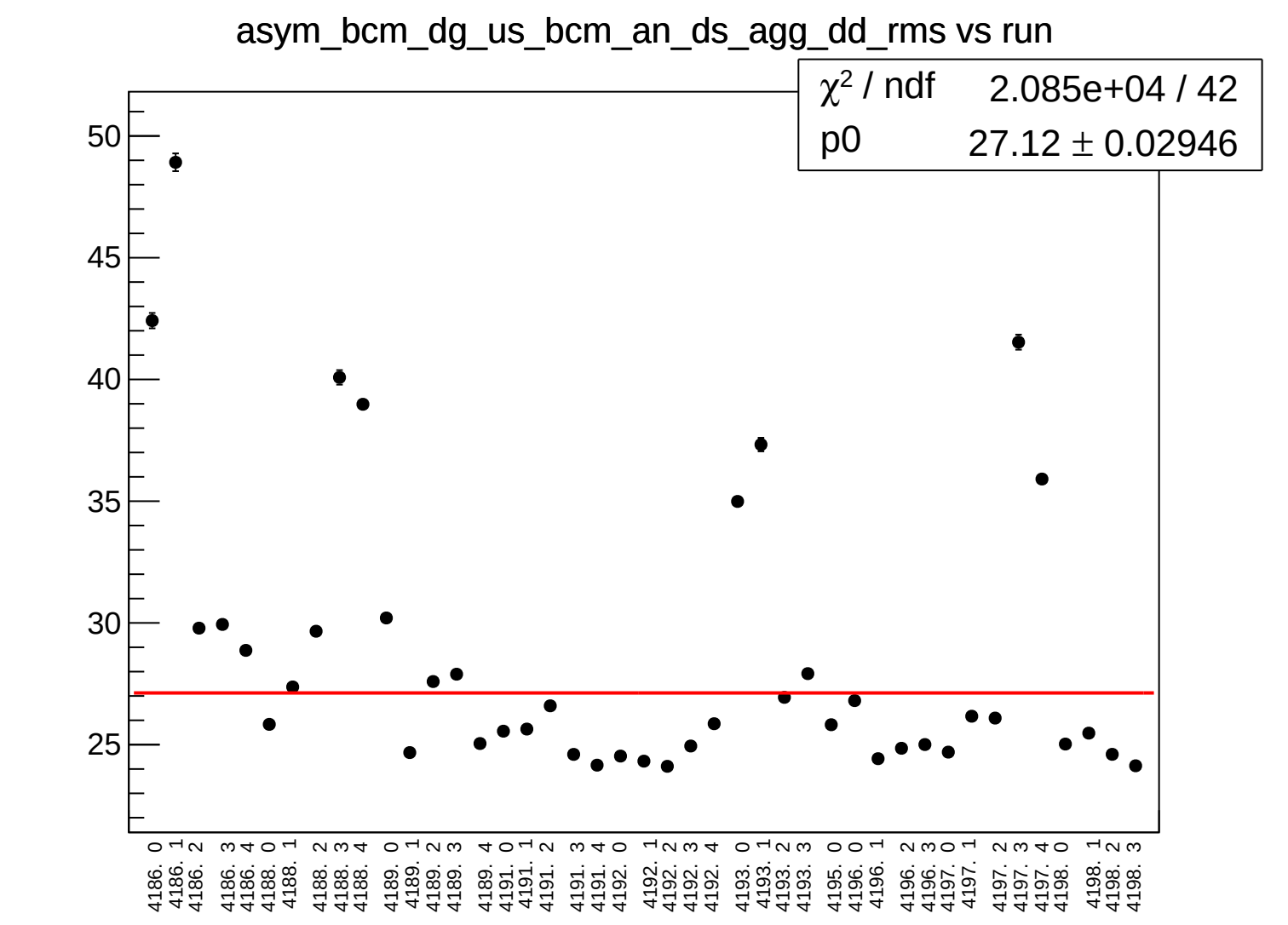

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 42.44 / 42
p0 22.73 ± 41.66
1000
500
0
−500
−1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 190.4
Std Dev 161.7
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003479
Std Dev 0.9935
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

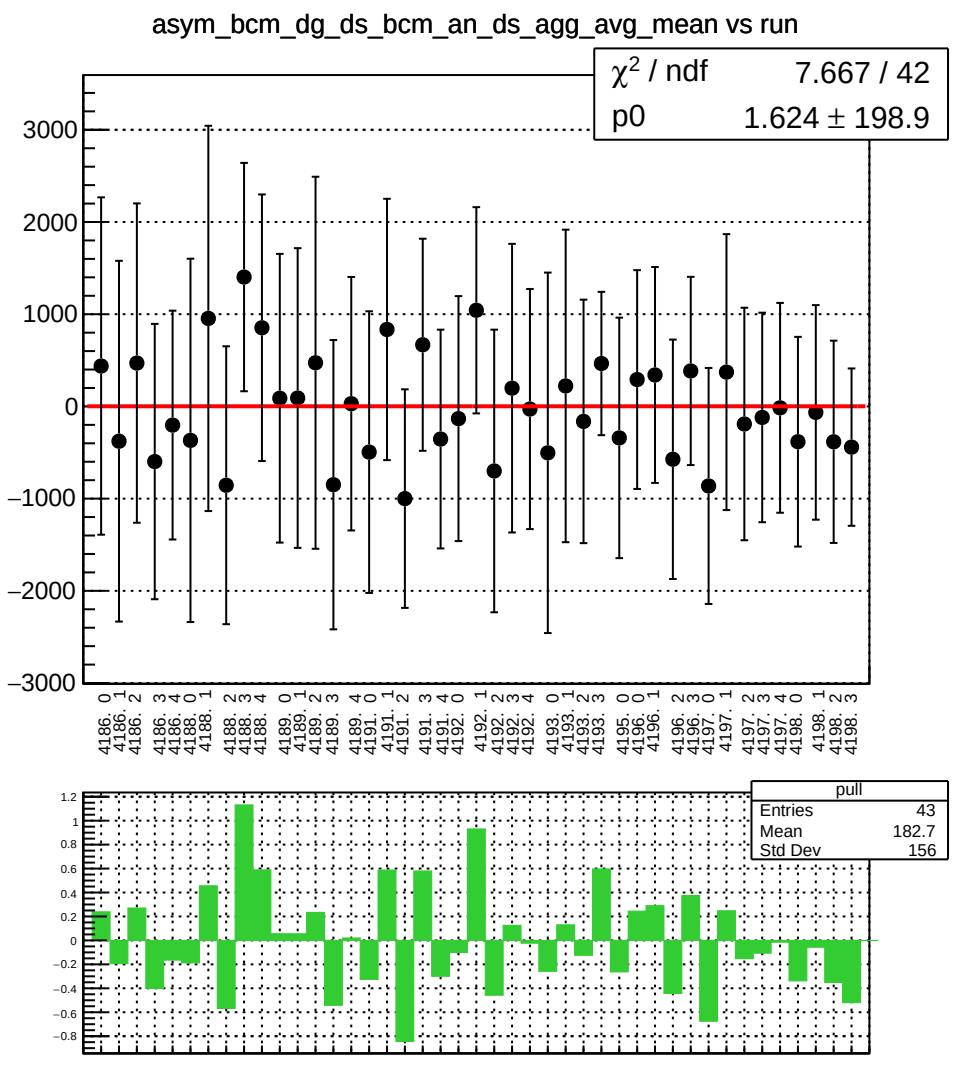

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.085e+04 / 42
p0 27.12 ± 0.02946
50
45
40
35
30
25
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

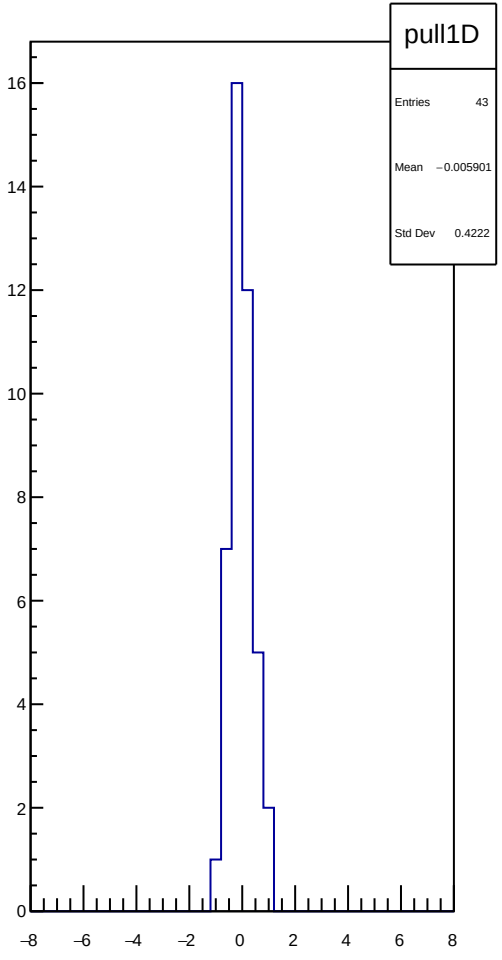

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.025 / 42
p0 37.76 ± 203.9
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −100.4
Std Dev 123.9
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.006223
Std Dev 0.4041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

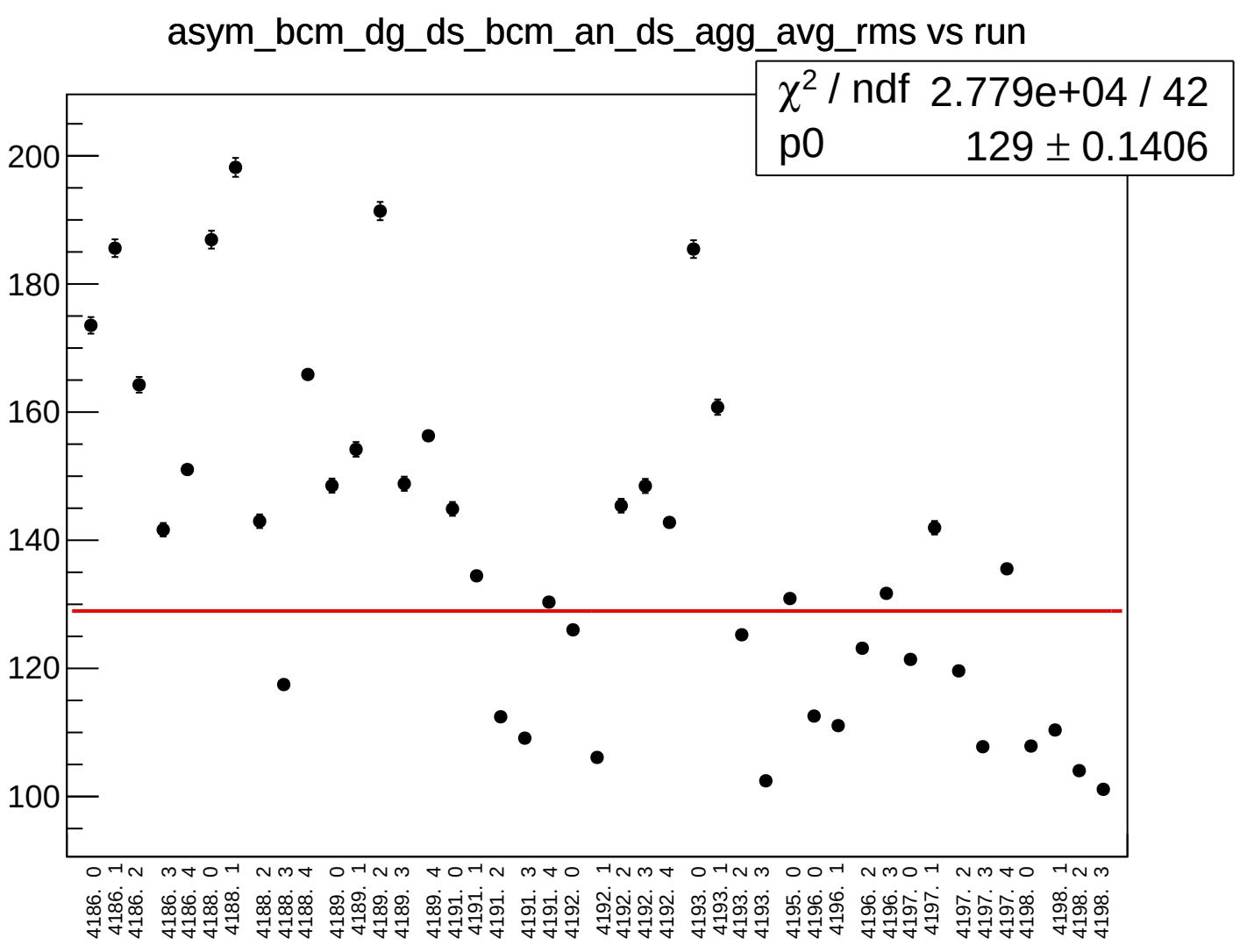

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.649e+04 / 42
p0 132.3 ± 0.1441
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

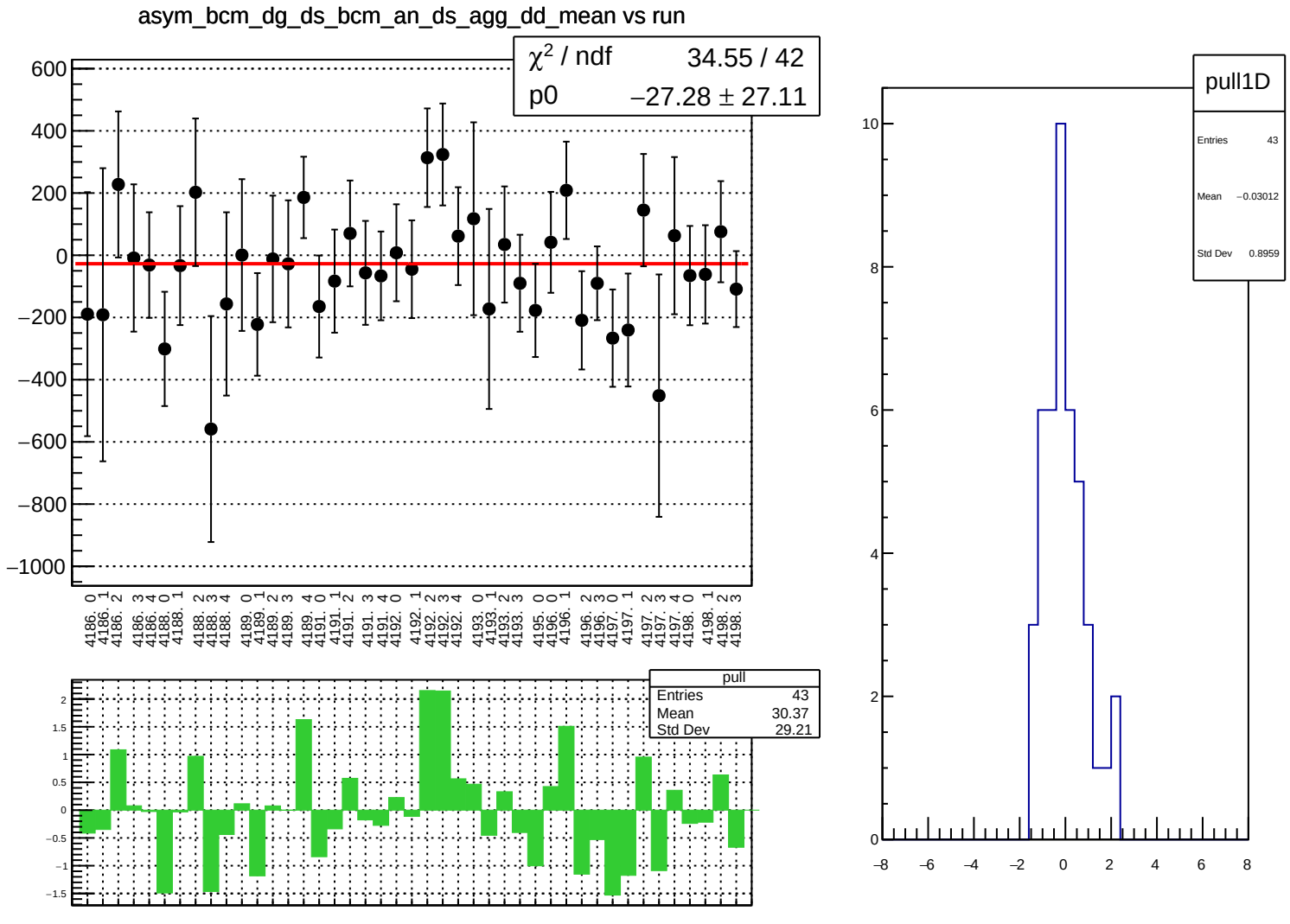

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 42.44 / 42
p0 22.73 ± 41.66
1000
500
0
−500
−1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 190.4
Std Dev 161.7
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003479
Std Dev 0.9935
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

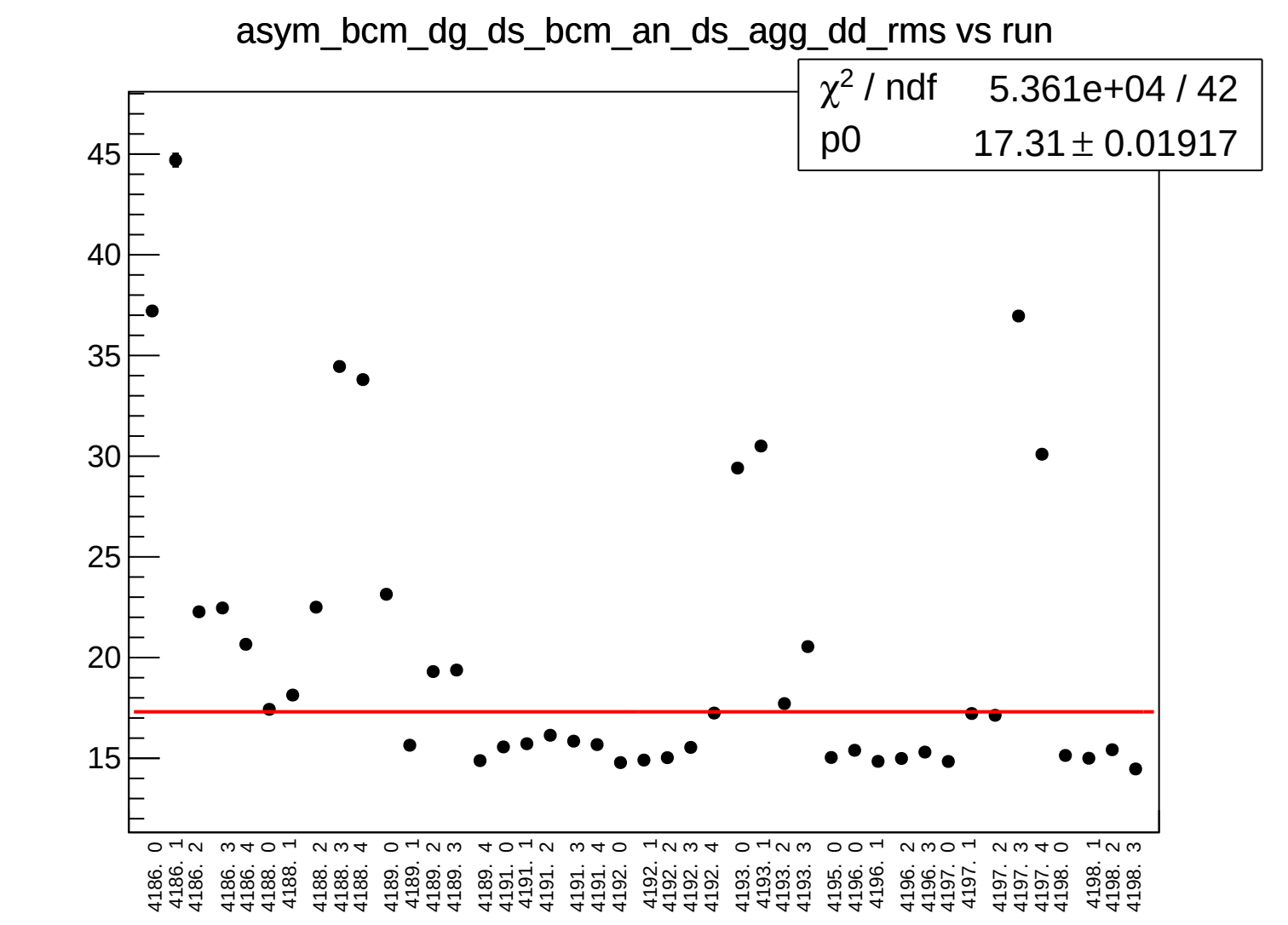

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.085e+04 / 42
p0 27.12 ± 0.02946
50
45
40
35
30
25
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

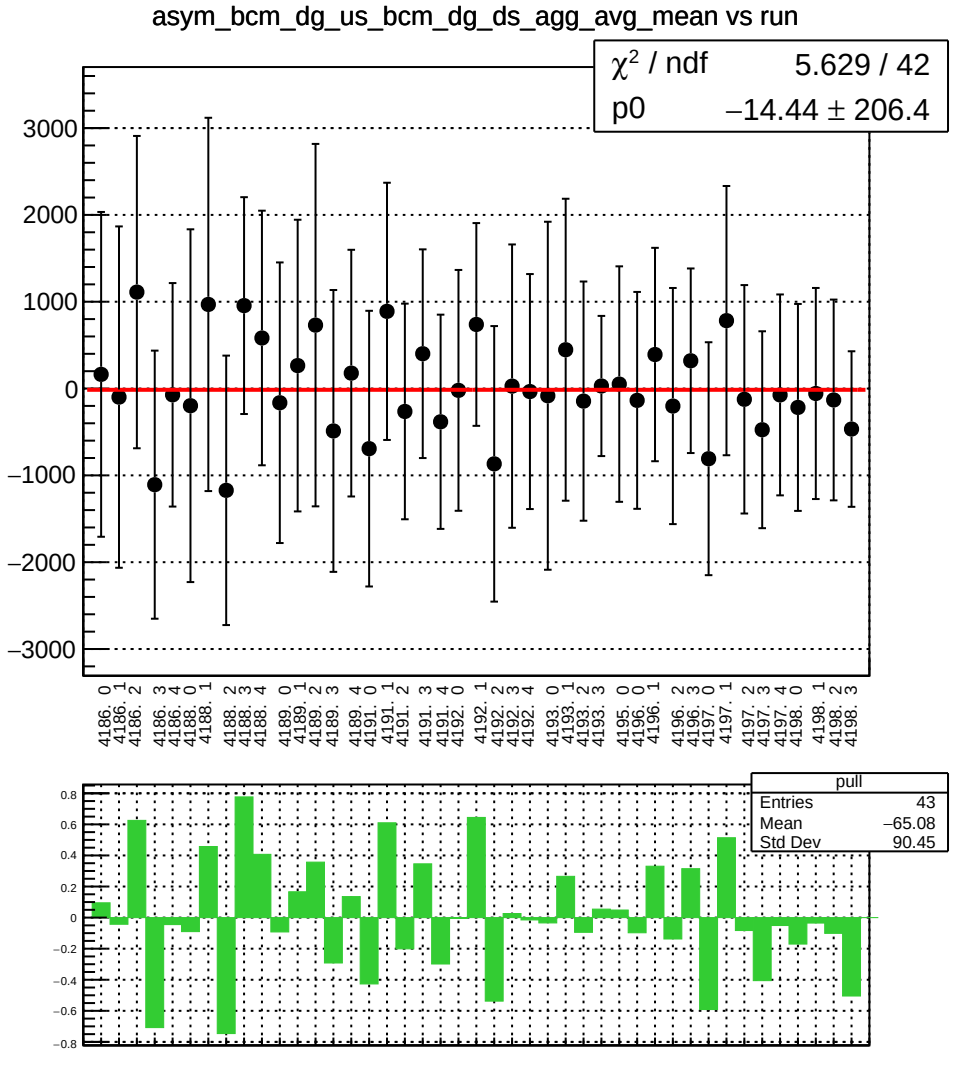

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.667 / 42
p0 1.624 ± 198.9
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 182.7
Std Dev 156
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

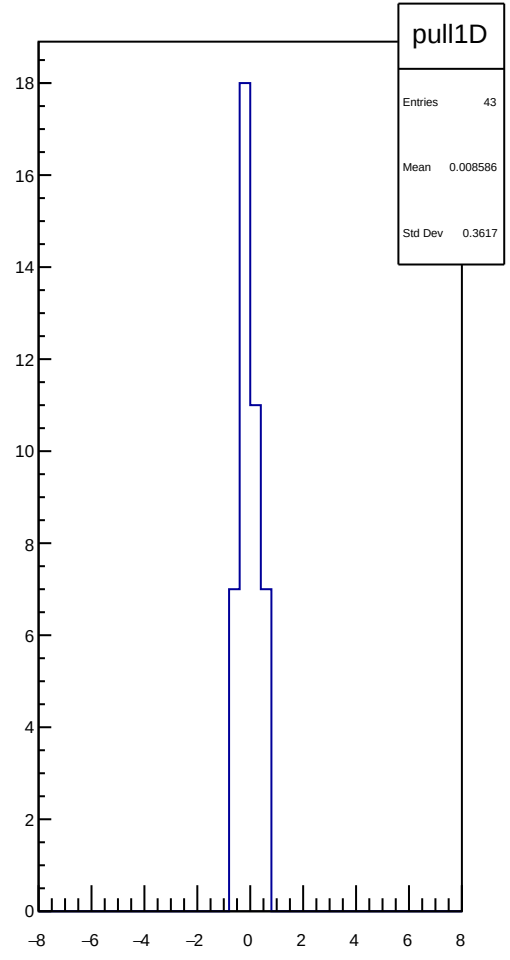

pull1D
Entries 43
Mean −0.005901
Std Dev 0.4222
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

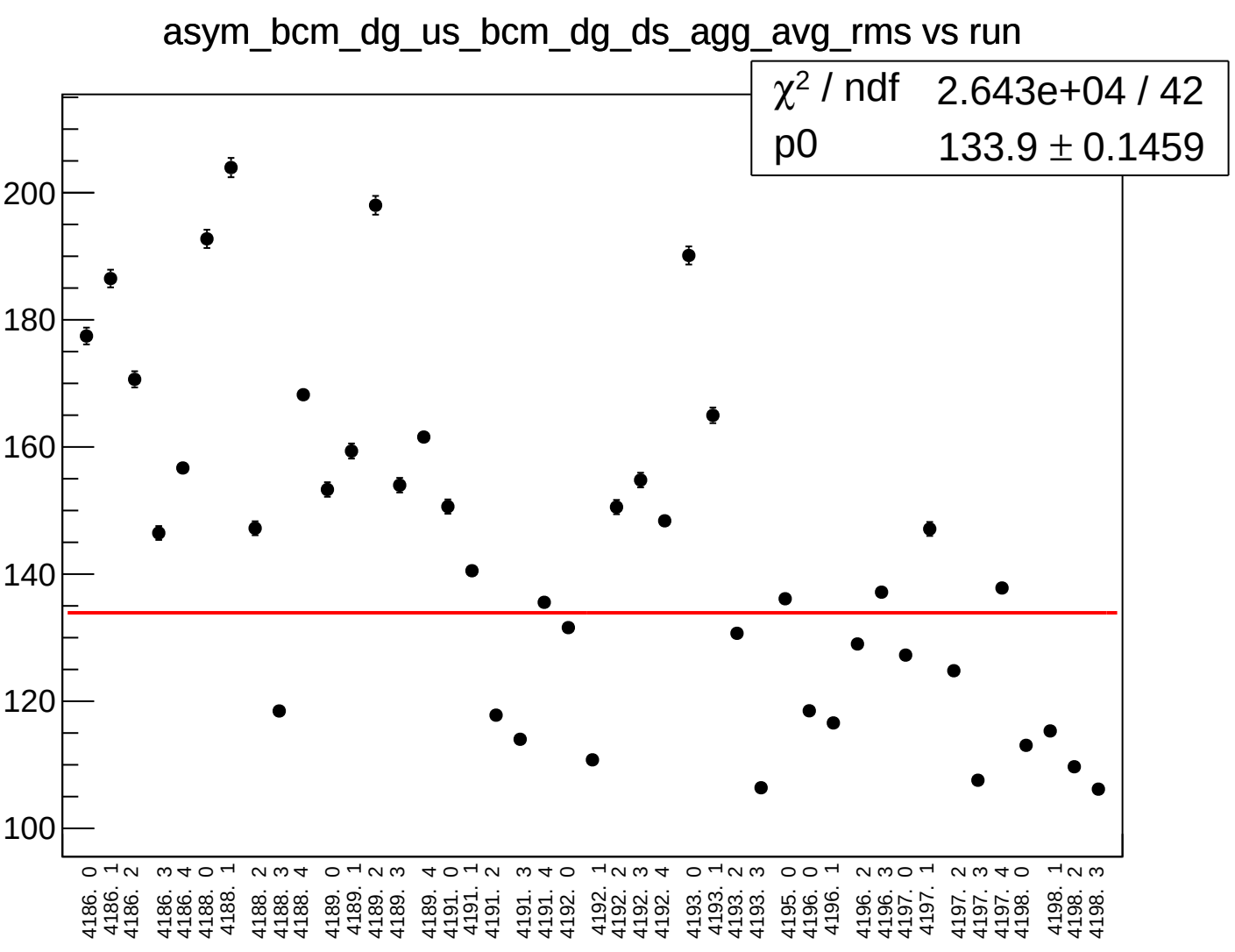

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.779e+04 / 42
p0 129 ± 0.1406
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

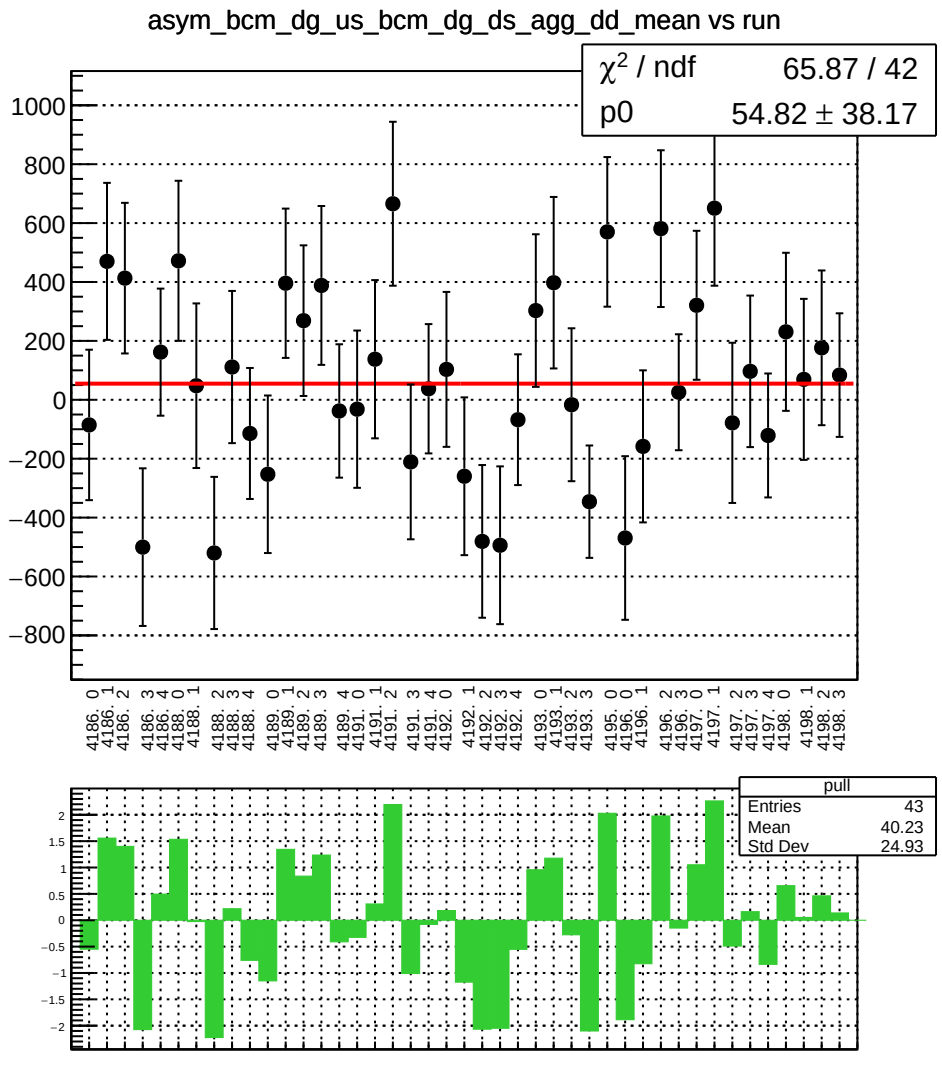

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 34.55 / 42
p0 −27.28 ± 27.11
pull
Entries 43
Mean 30.37
Std Dev 29.21
pull1D
Entries 43
Mean −0.03012
Std Dev 0.8959

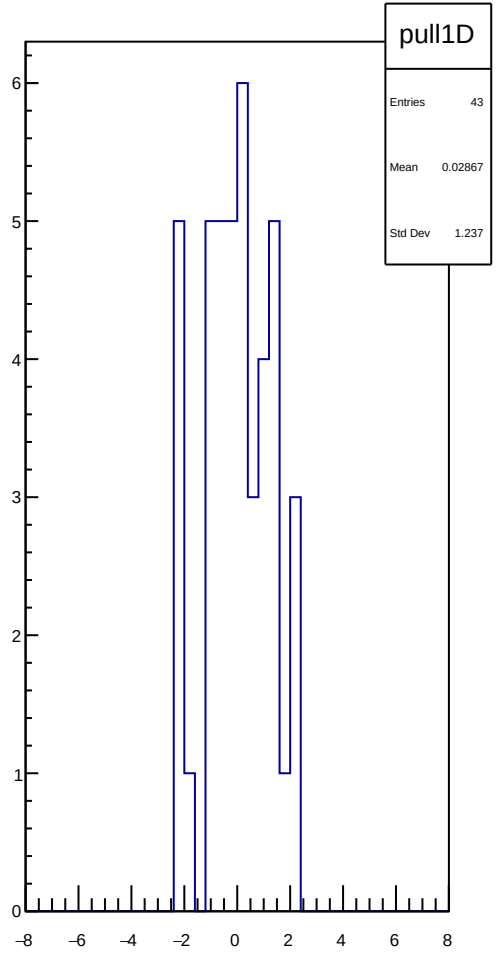

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5.361e+04 / 42
p0 17.31 ± 0.01917
45
40
35
30
25
20
15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

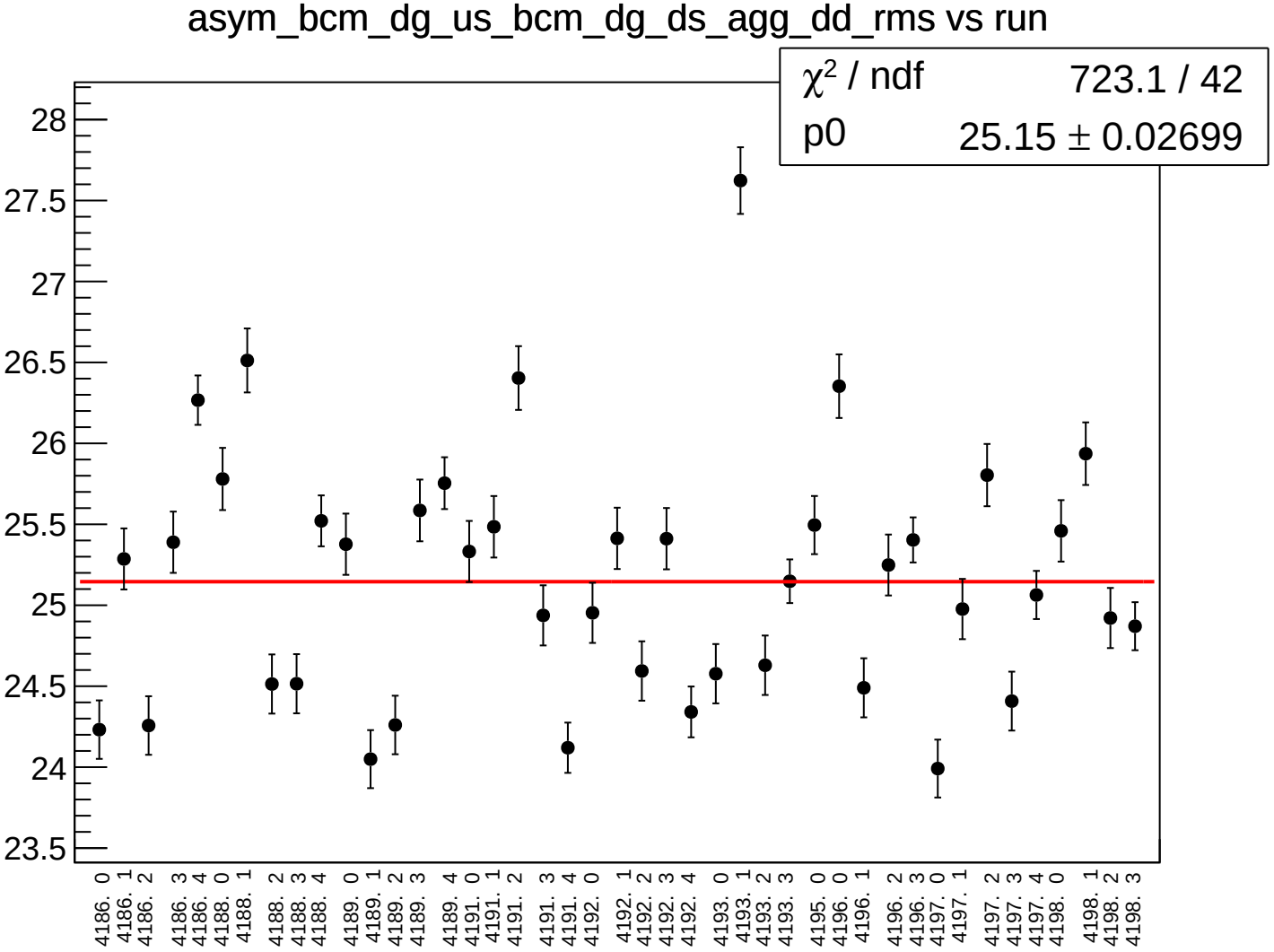

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.629 / 42
p0 −14.44 ± 206.4
pull
Entries 43
Mean −65.08
Std Dev 90.45

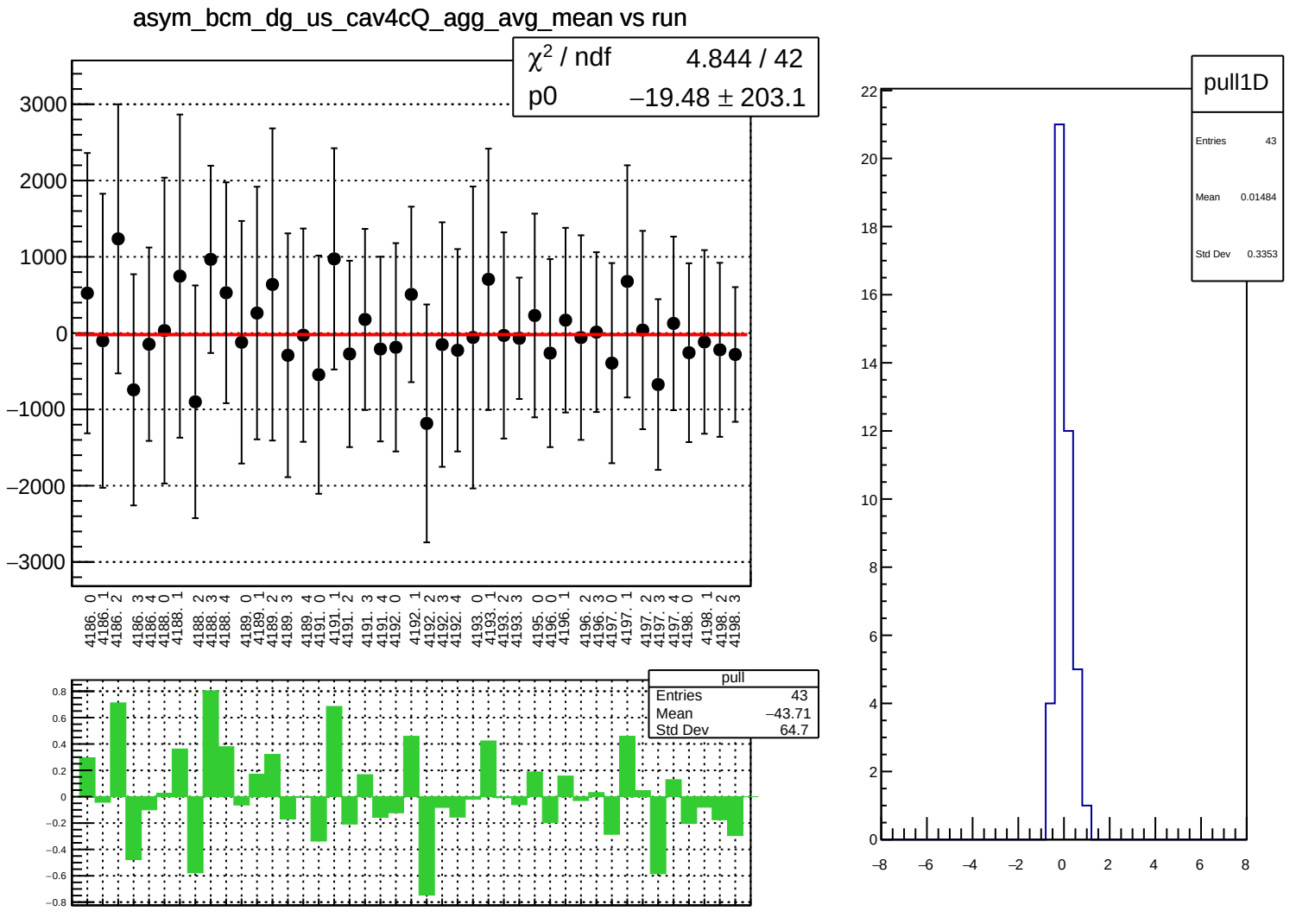

pull1D
Entries 43
Mean 0.008586
Std Dev 0.3617

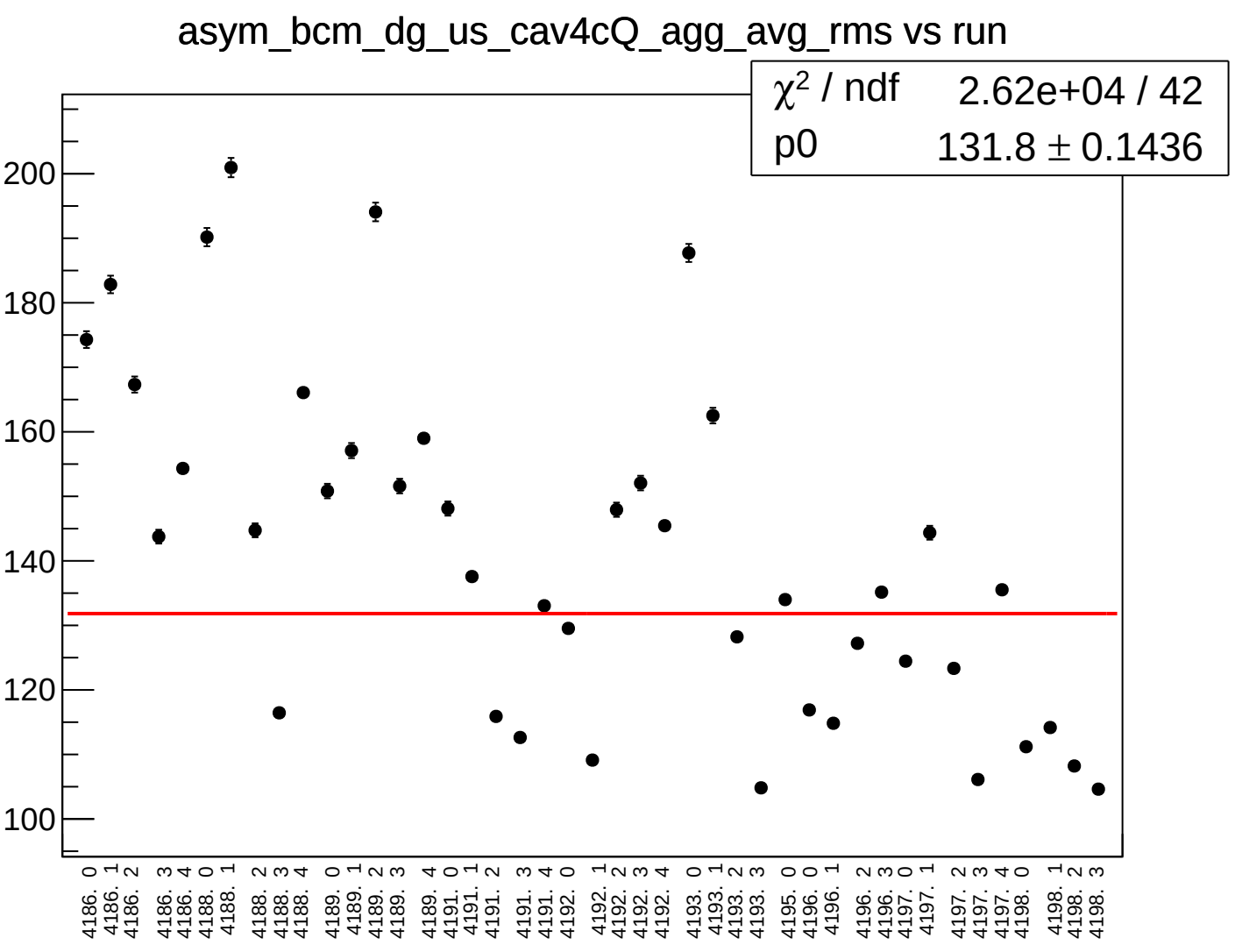

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.643e+04 / 42
p0 133.9 ± 0.1459
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

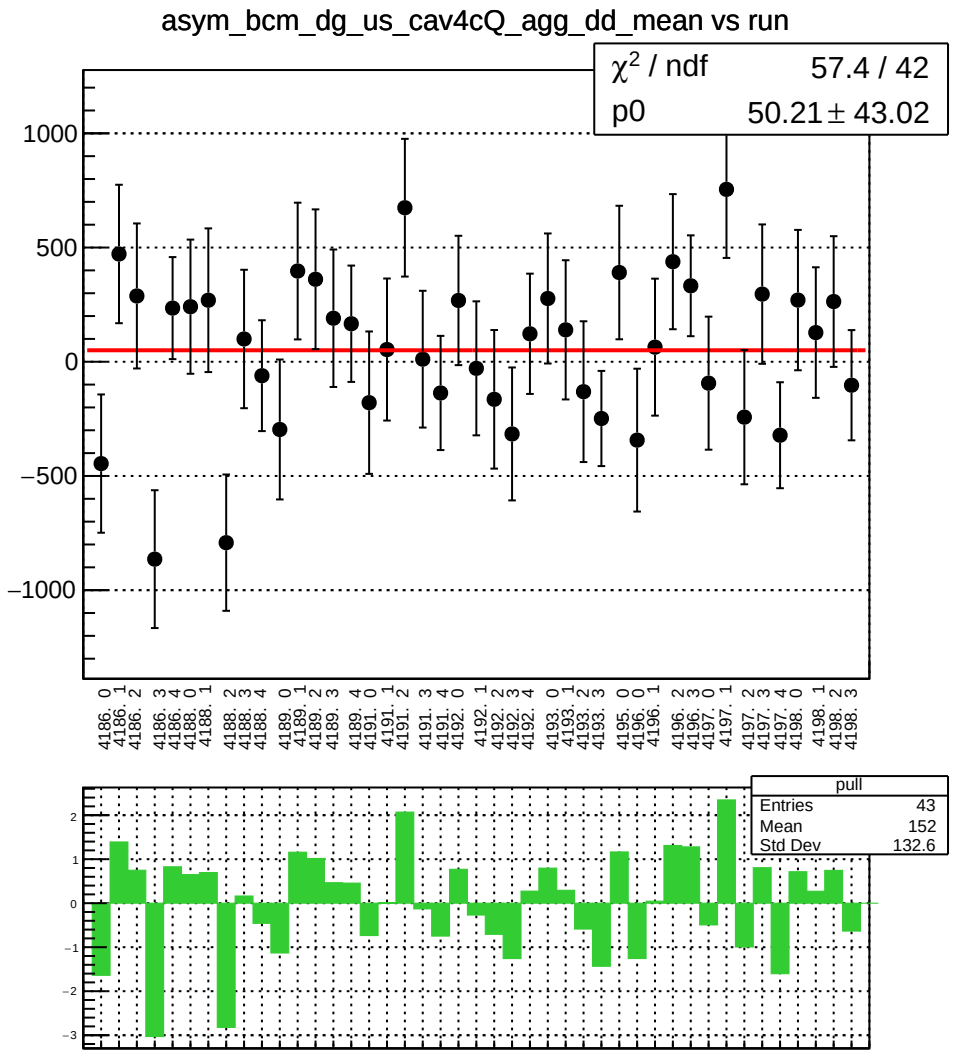

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 65.87 / 42
p0 54.82 ± 38.17
1000
800
600
400
200
0
−200
−400
−600
−800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 40.23
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

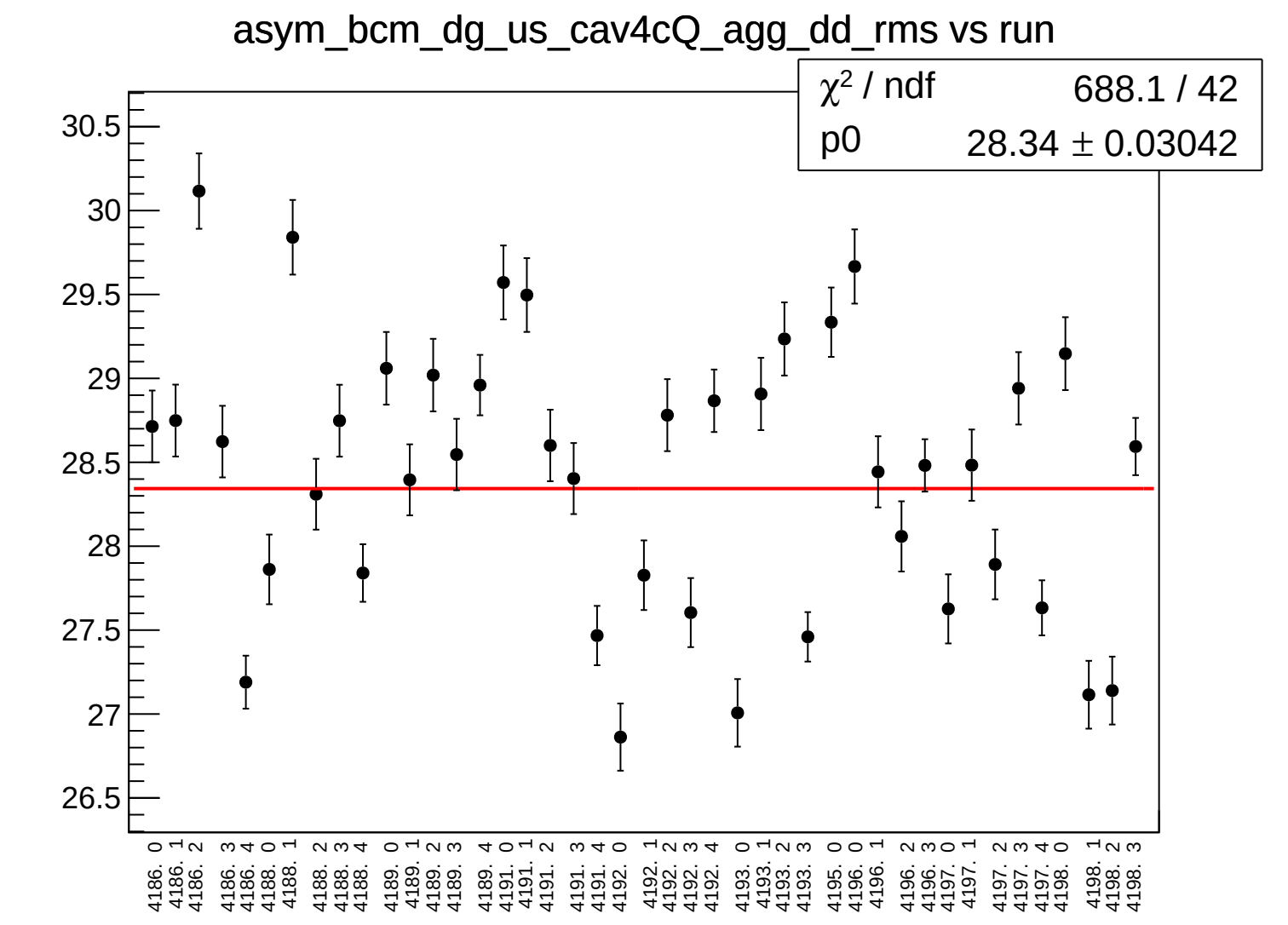

pull1D
Entries 43
Mean 0.02867
Std Dev 1.237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

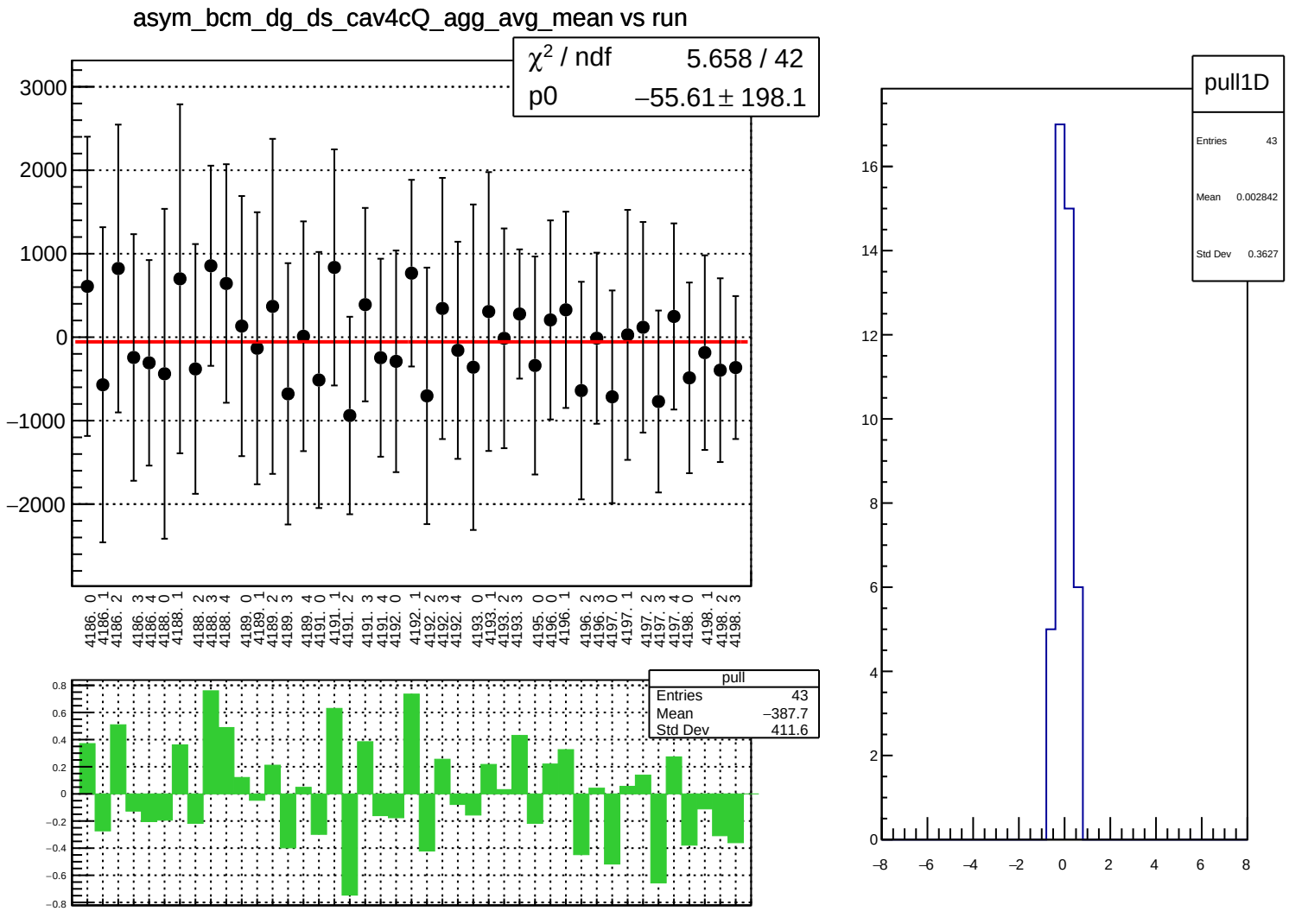

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 723.1 / 42
p0 25.15 ± 0.02699
28
27.5
27
26.5
26
25.5
25
24.5
24
23.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

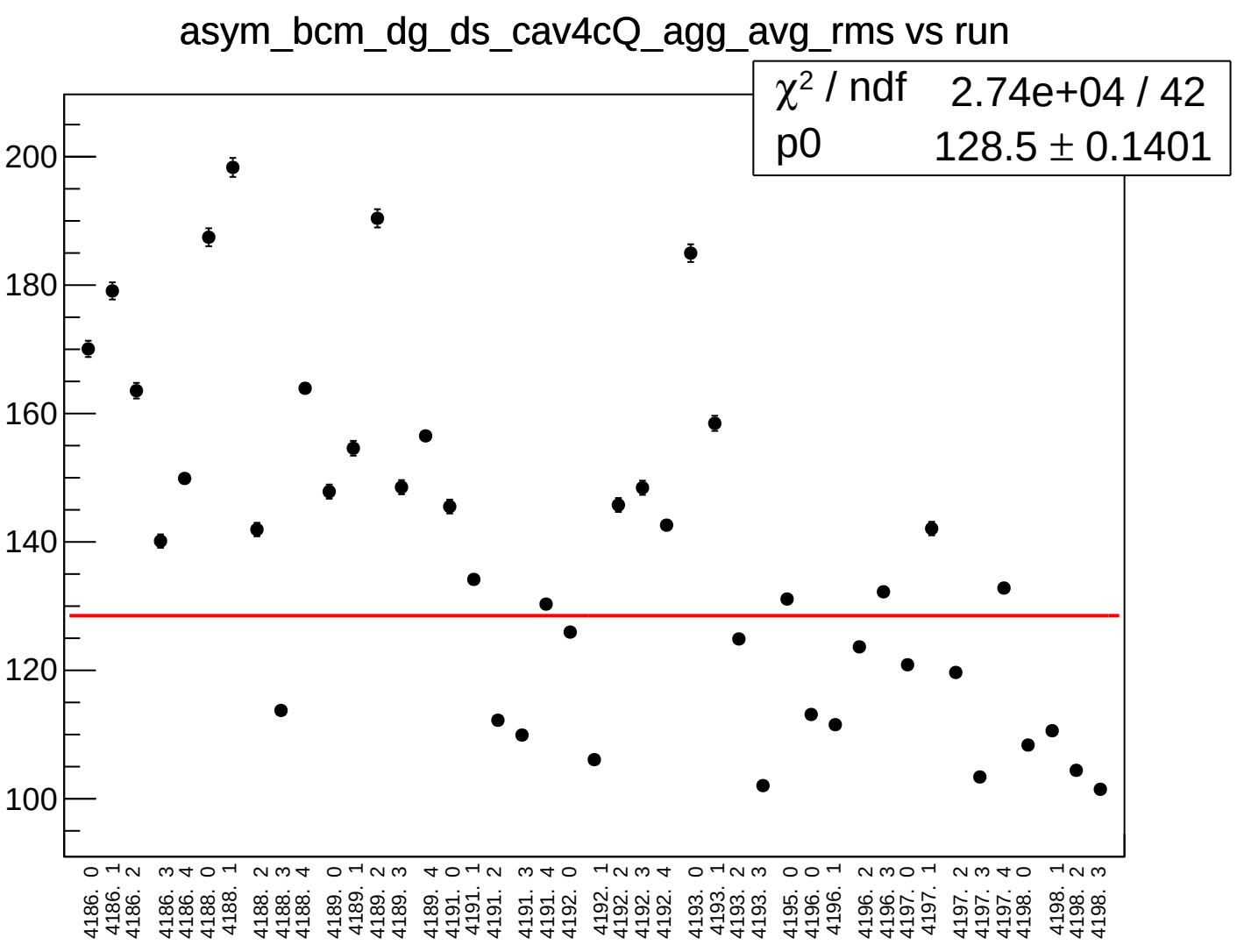

asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 4.844 / 42
p0 −19.48 ± 203.1
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −43.71
Std Dev 64.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.01484
Std Dev 0.3353
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

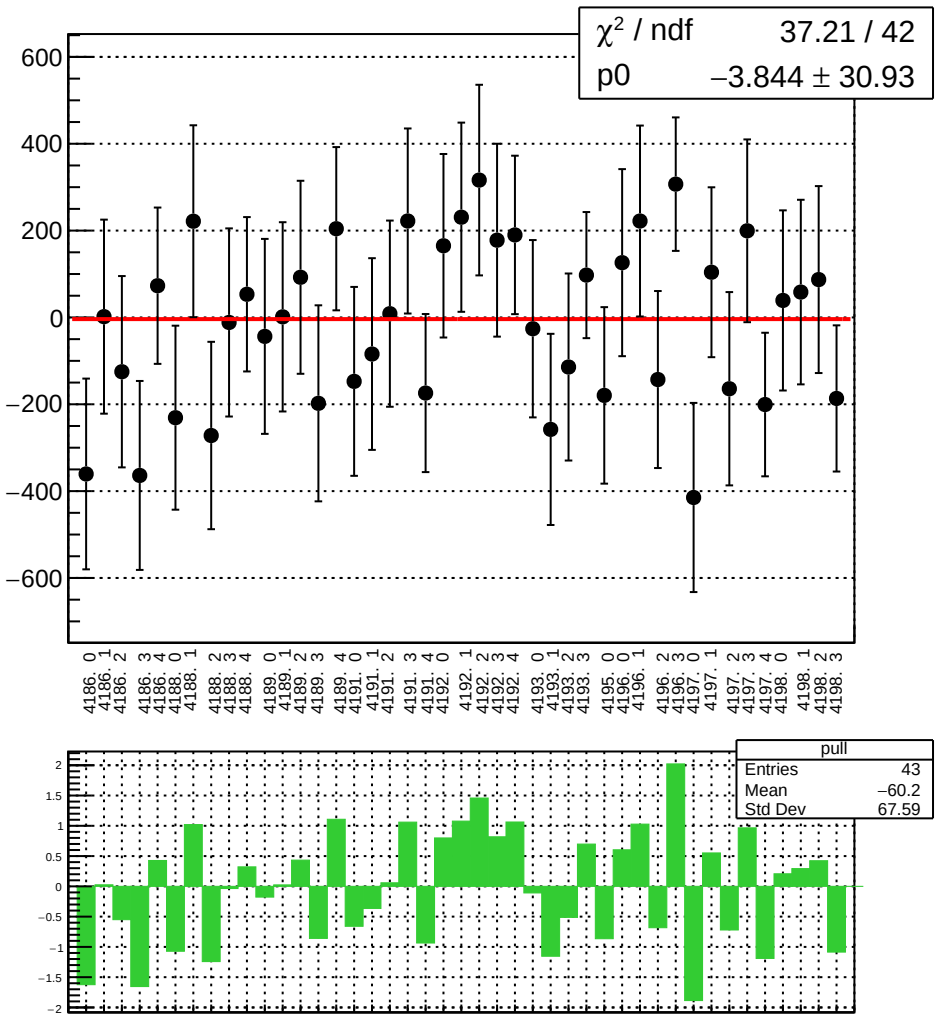

asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.62e+04 / 42
p0 131.8 ± 0.1436
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

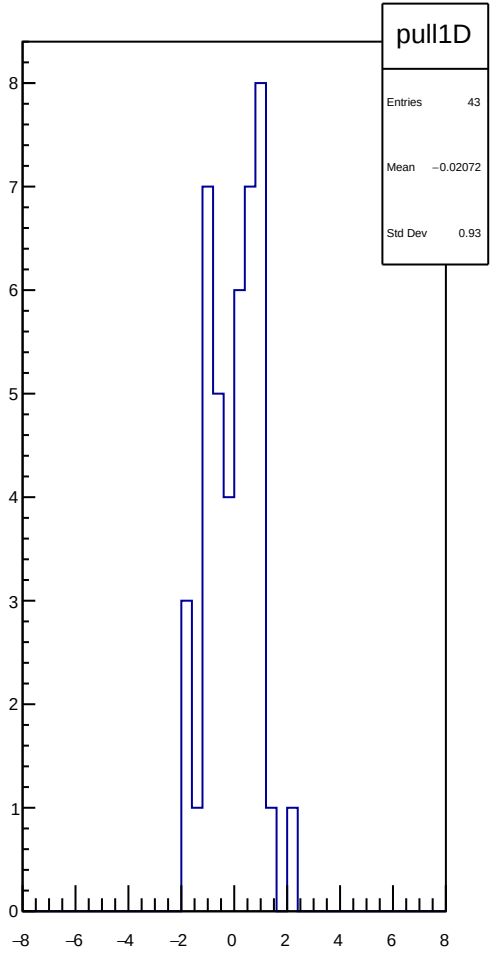

asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 57.4 / 42
p0 50.21 ± 43.02
1000
500
0
−500
−1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 152
Std Dev 132.6
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01258
Std Dev 1.155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

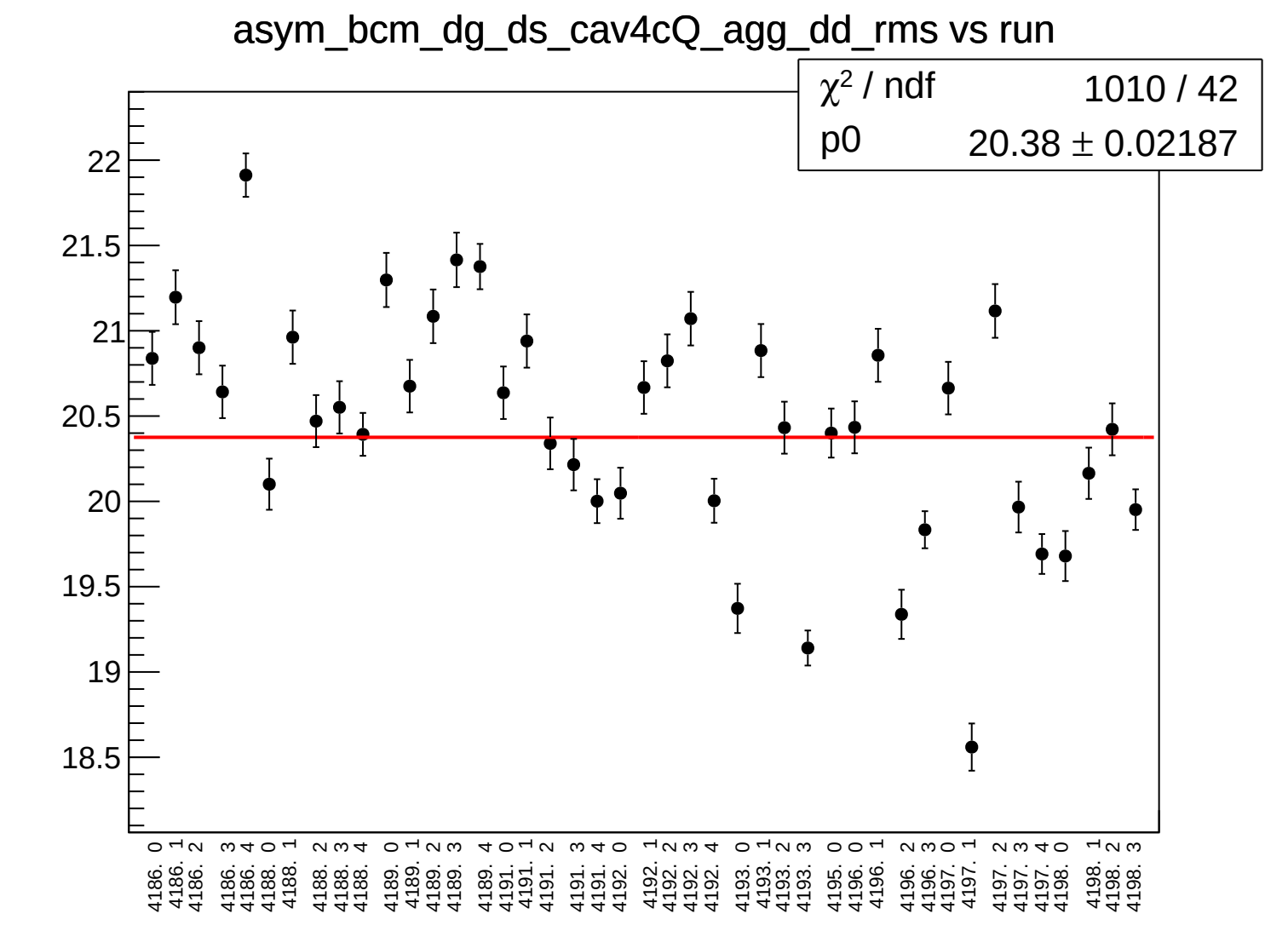

asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 688.1 / 42
p0 28.34 ± 0.03042
30.5
30
29.5
29
28.5
28
27.5
27
26.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

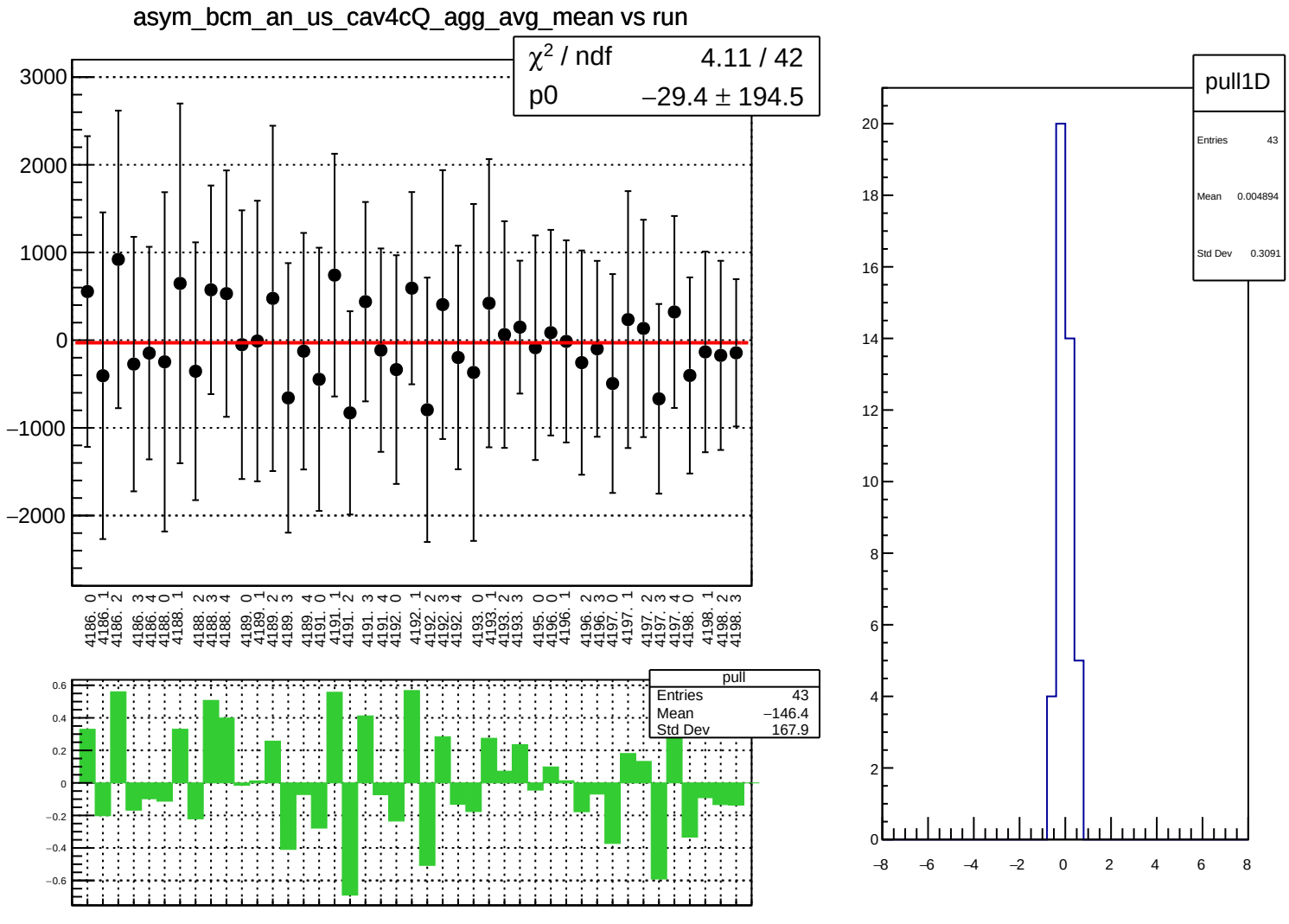

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 5.658 / 42
p0 −55.61 ± 198.1
3000
2000
1000
0
−1000
−2000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −387.7
Std Dev 411.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.002842
Std Dev 0.3627
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

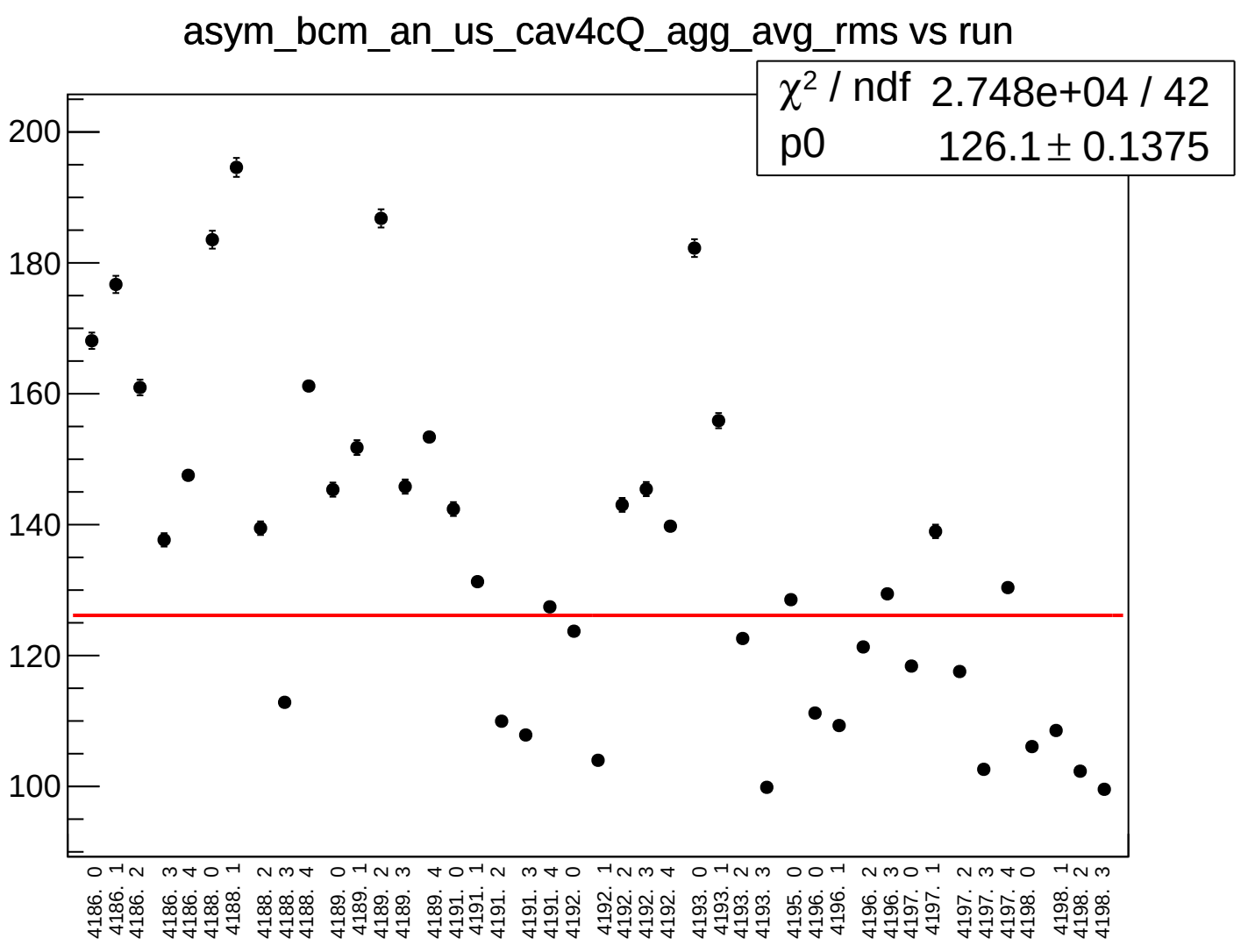

asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.74e+04 / 42
p0 128.5 ± 0.1401
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

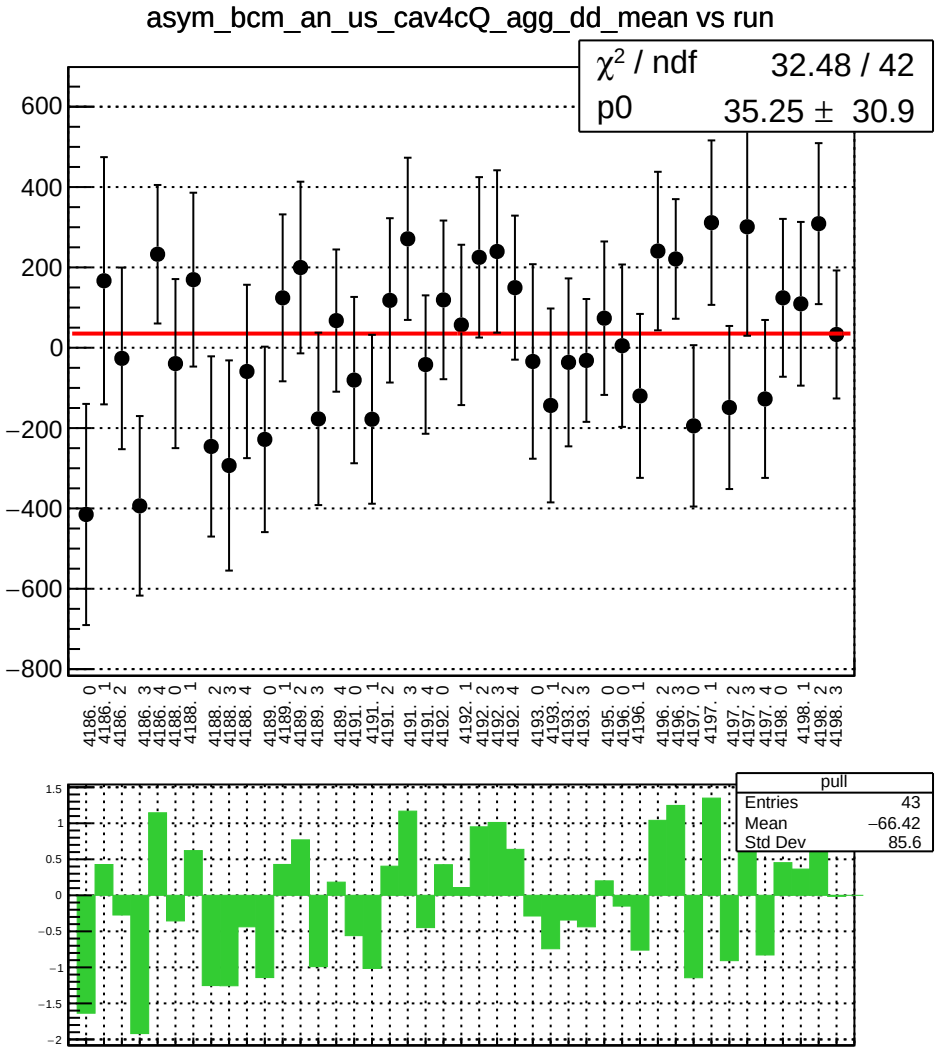

asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 37.21 / 42
p0 −3.844 ± 30.93
pull
Entries 43
Mean −60.2
Std Dev 67.59

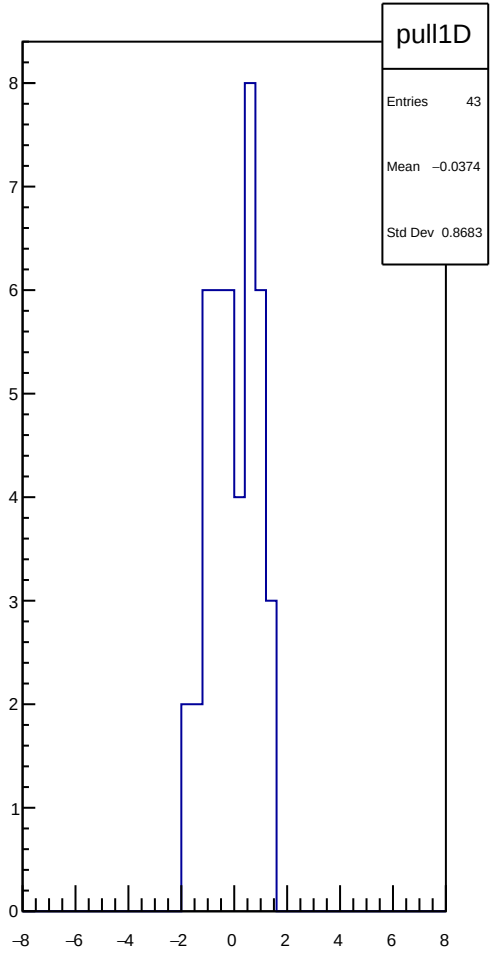

pull1D
Entries 43
Mean −0.02072
Std Dev 0.93

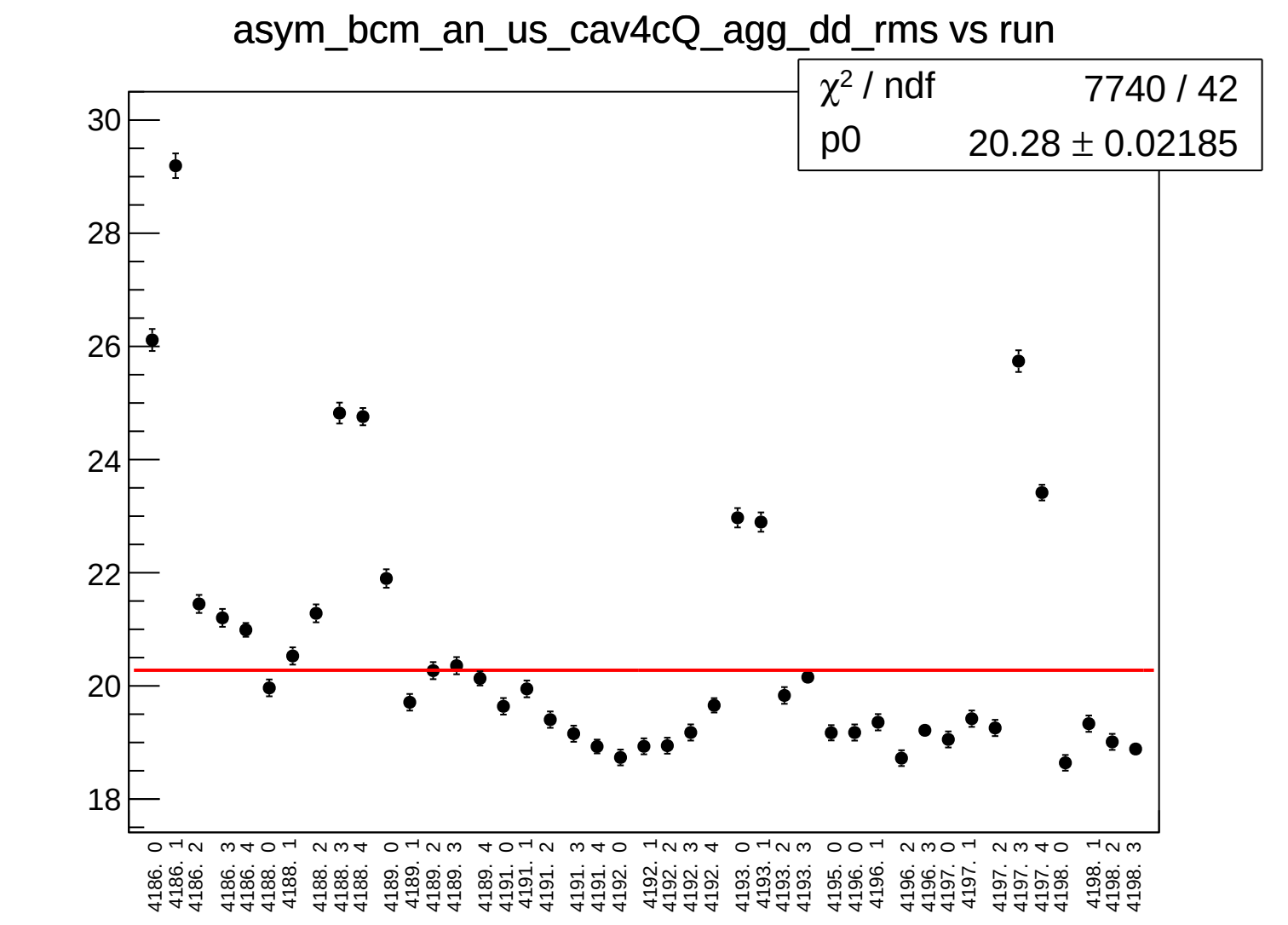

asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1010 / 42
p0 20.38 ± 0.02187
22
21.5
21
20.5
20
19.5
19
18.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

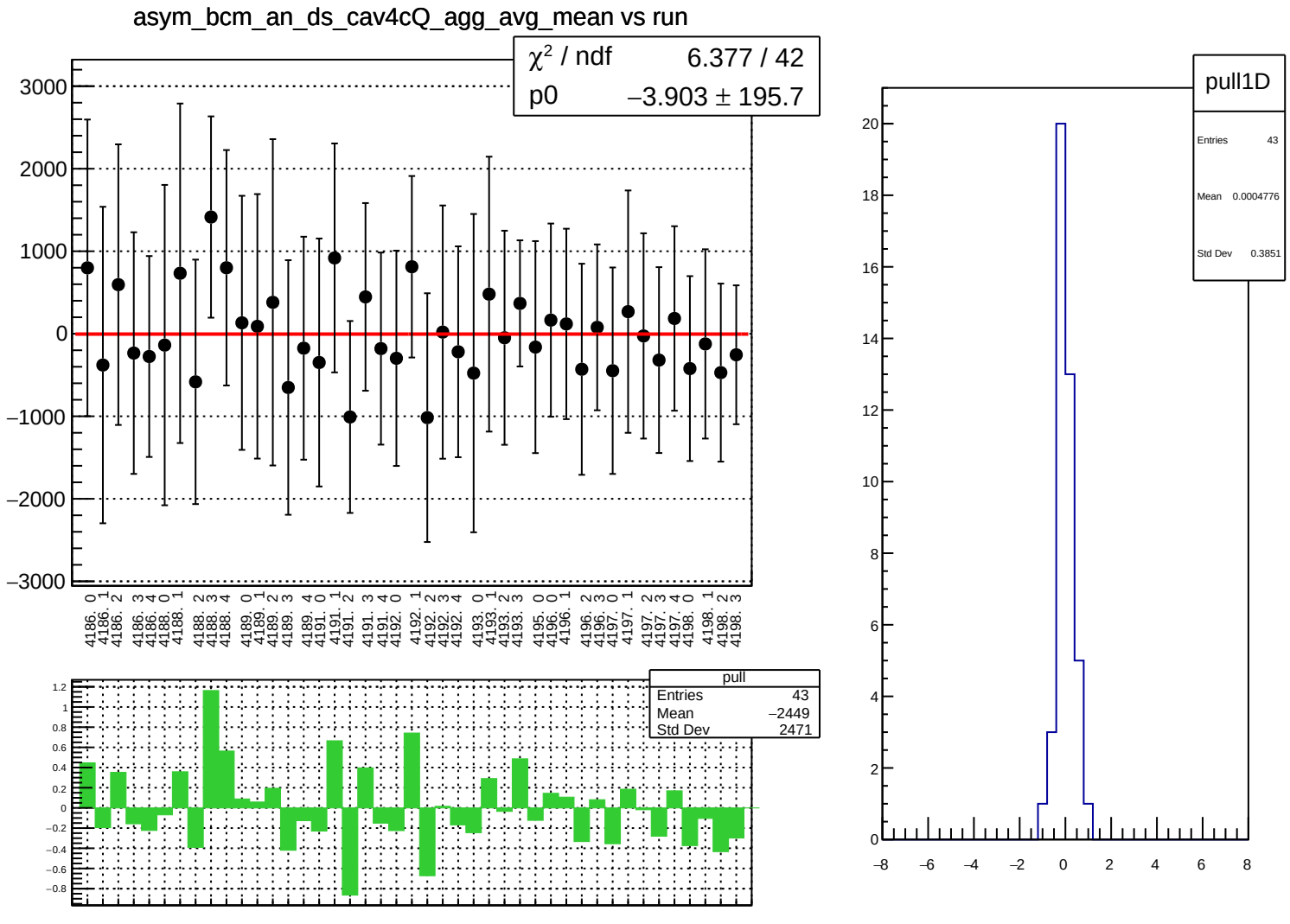

asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 4.11 / 42
p0 −29.4 ± 194.5
3000
2000
1000
0
−1000
−2000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −146.4
Std Dev 167.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.004894
Std Dev 0.3091
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

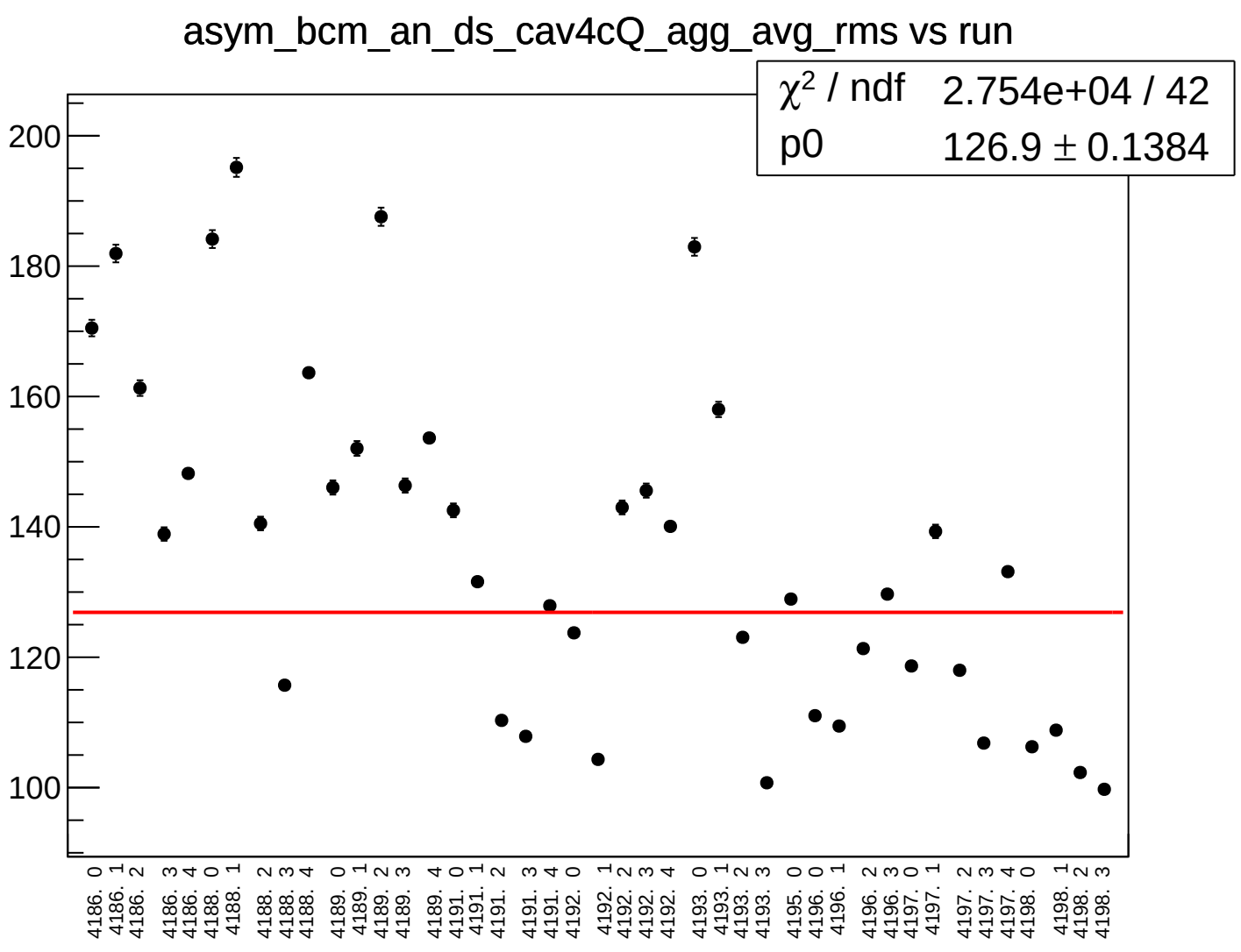

asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.748e+04 / 42
p0 126.1 ± 0.1375
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

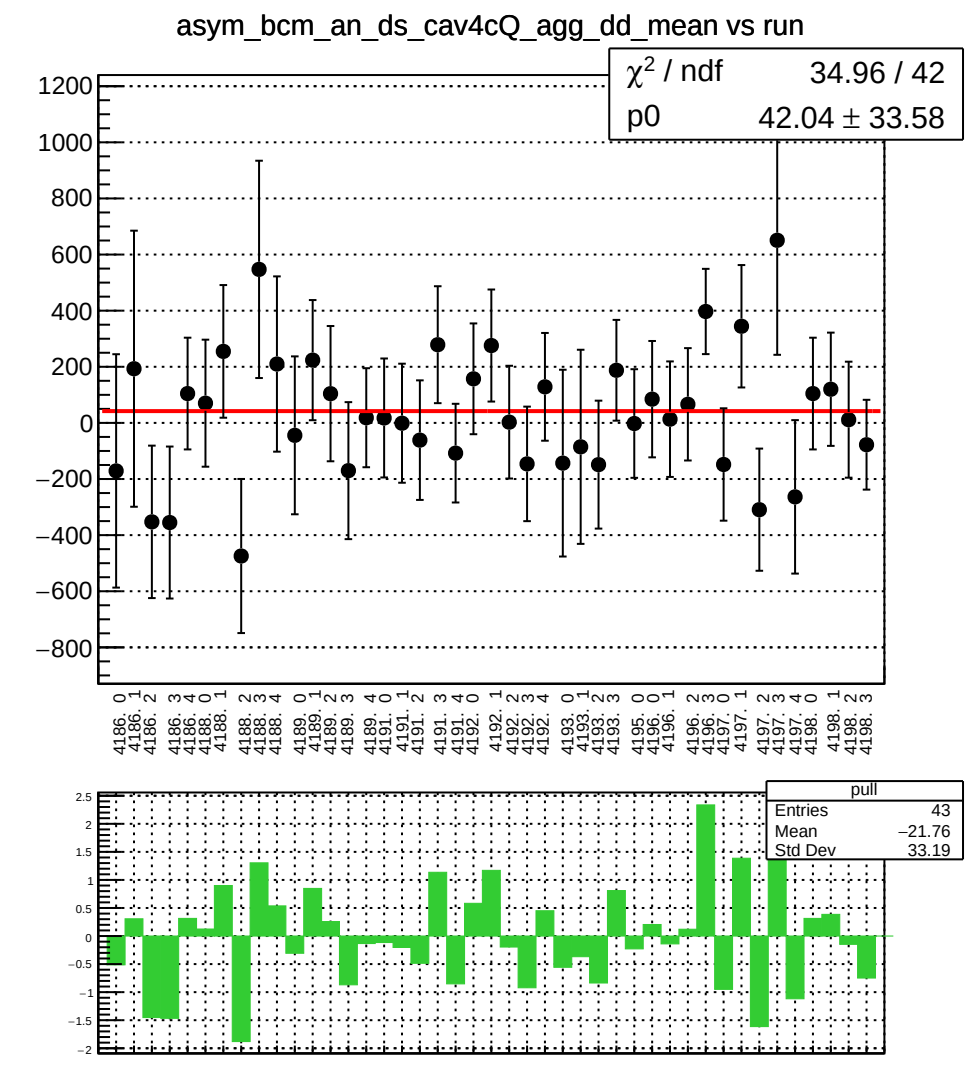

asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 32.48 / 42
p0 35.25 ± 30.9
pull
Entries 43
Mean −66.42
Std Dev 85.6

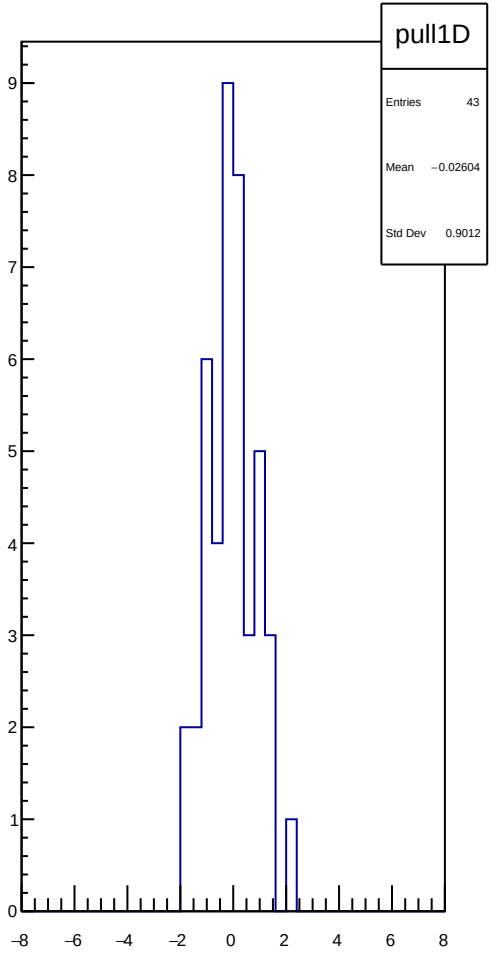

pull1D
Entries 43
Mean −0.0374
Std Dev 0.8683

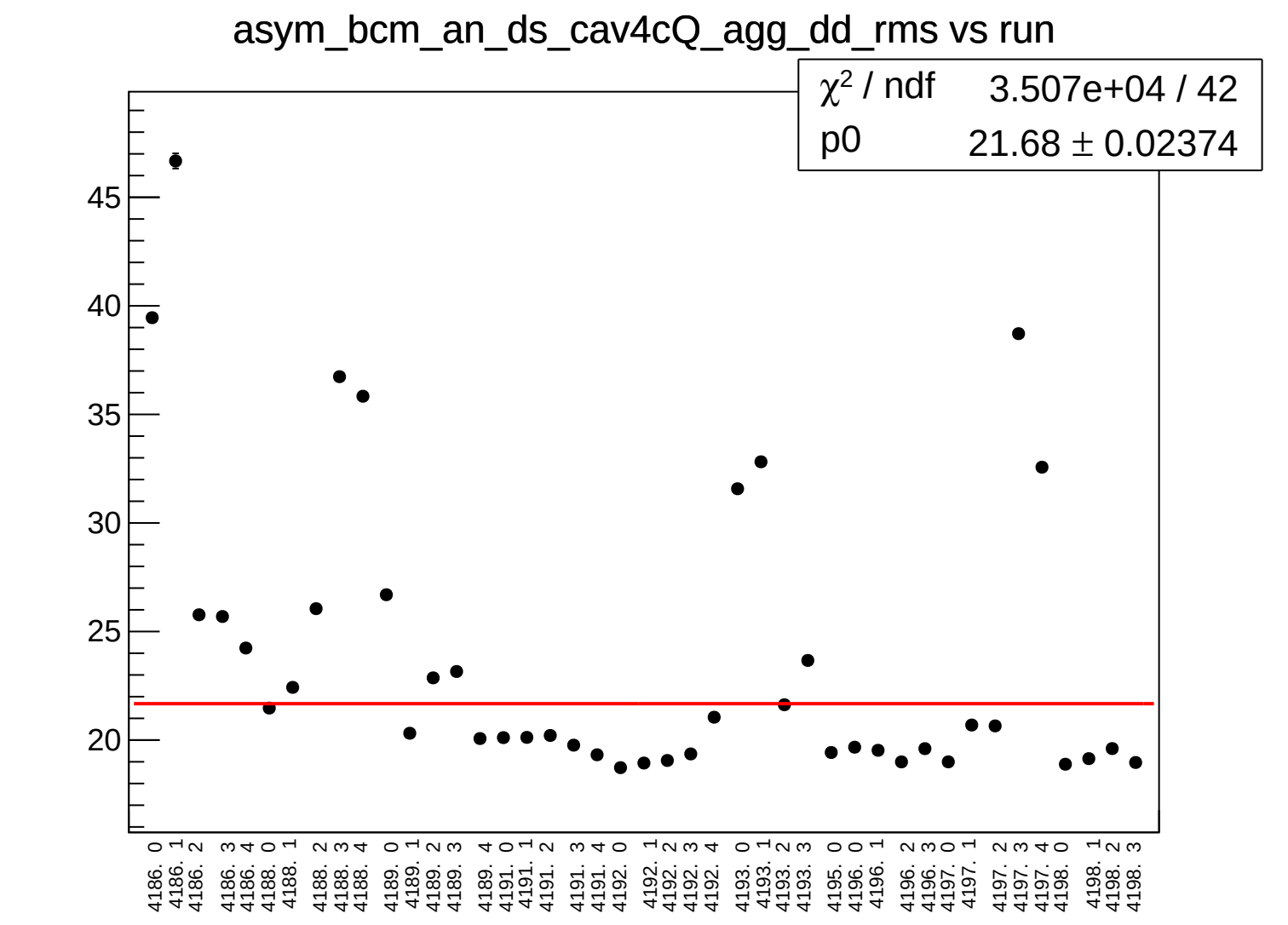

asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 7740 / 42
p0 20.28 ± 0.02185
30
28
26
24
22
20
18
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

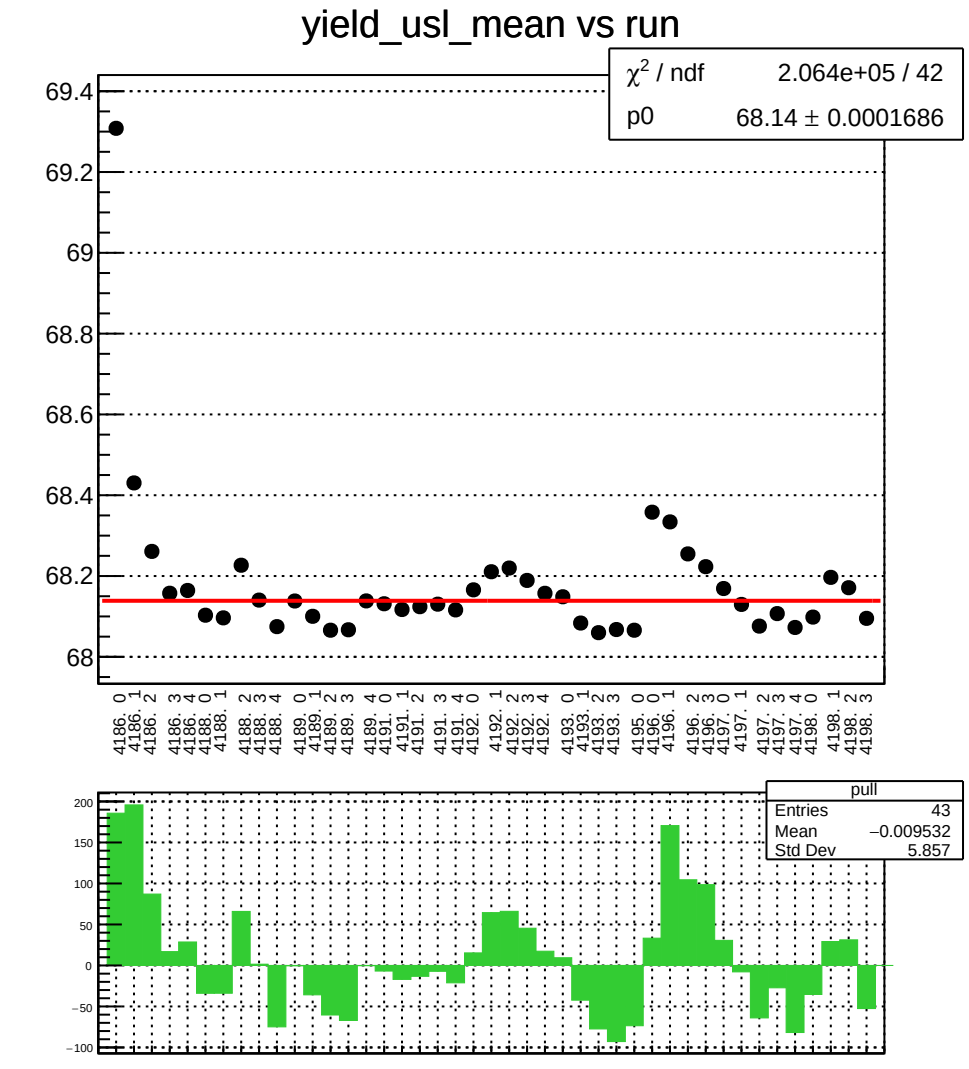

asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 6.377 / 42
p0 −3.903 ± 195.7
3000
2000
1000
0
−1000
−2000
−3000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −2449
Std Dev 2471
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.0004776
Std Dev 0.3851
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

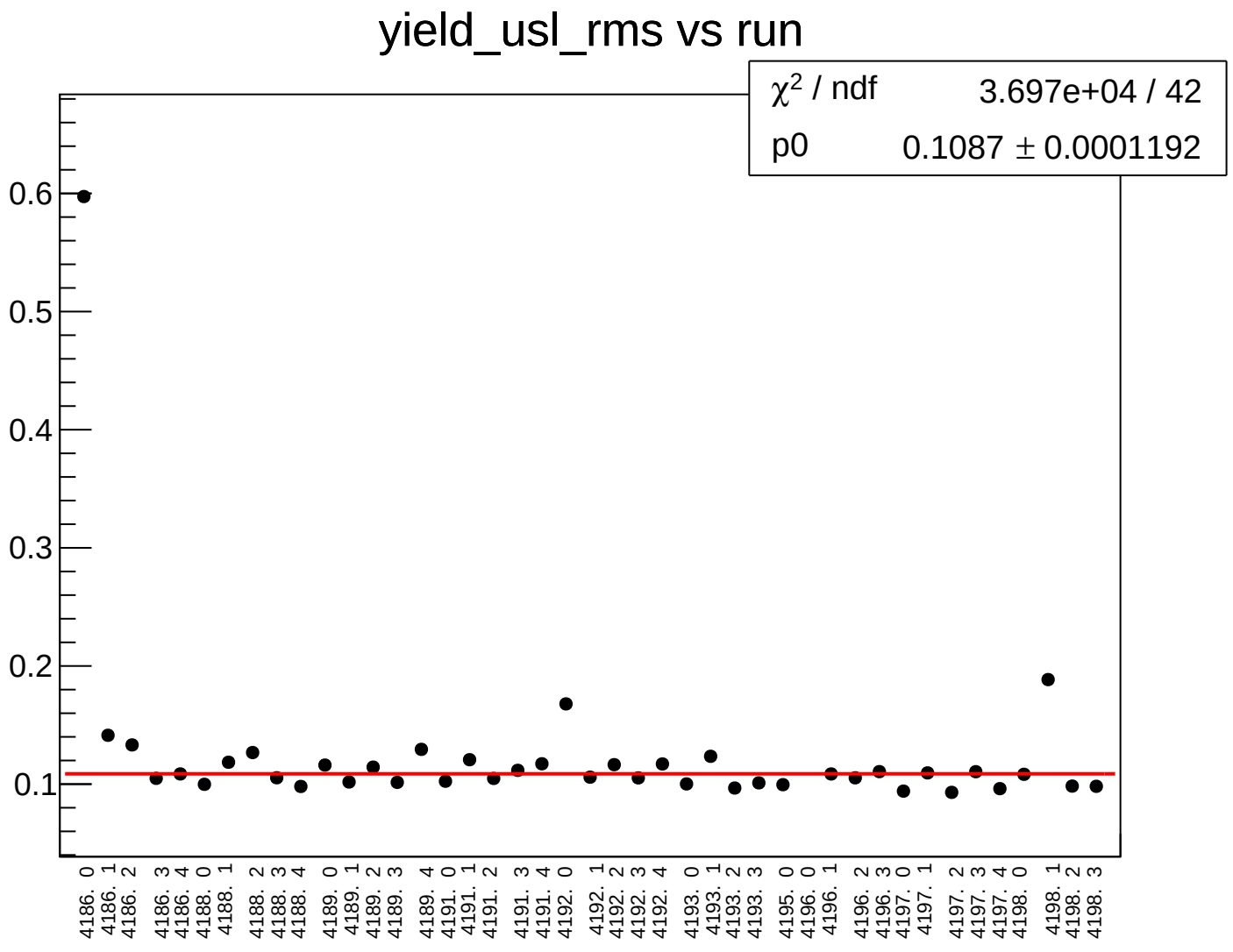

asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 2.754e+04 / 42
p0 126.9 ± 0.1384
200
180
160
140
120
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

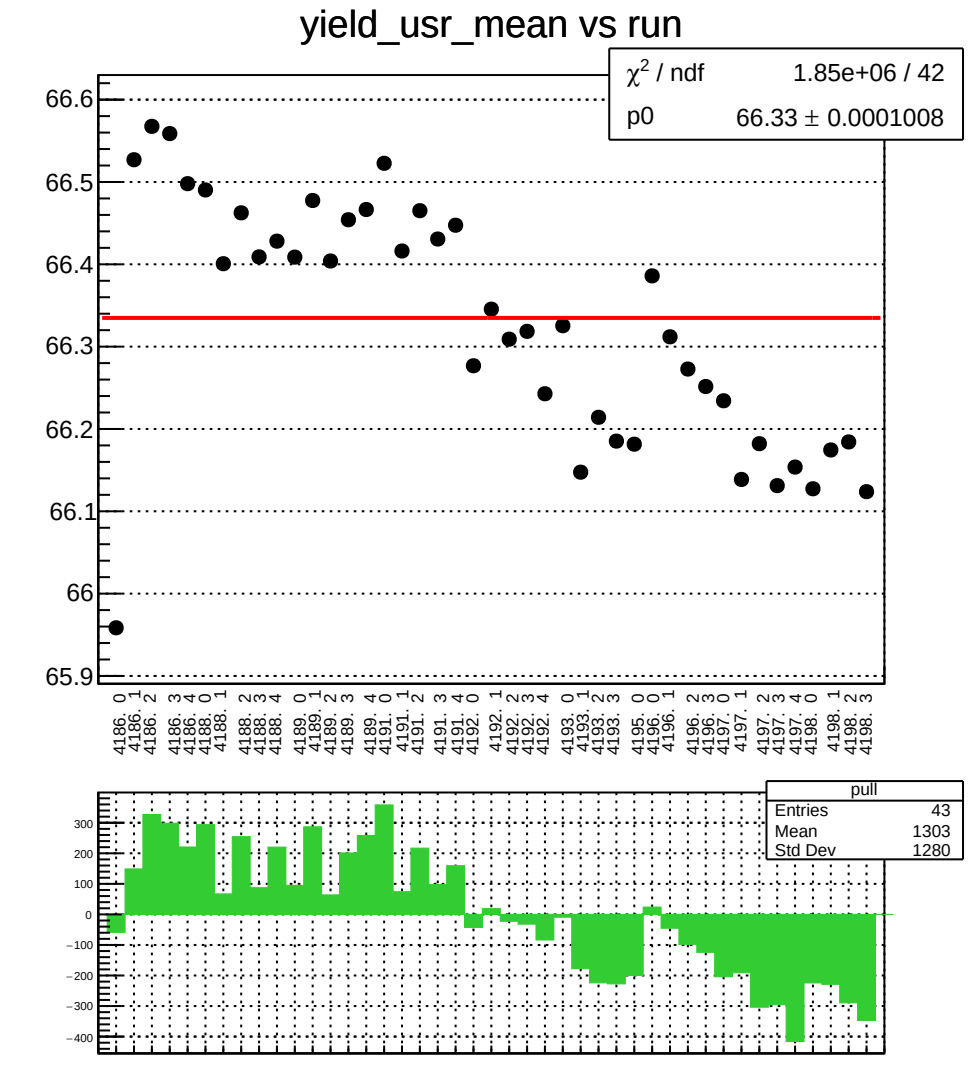

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 34.96 / 42
p0 42.04 ± 33.58
pull
Entries 43
Mean −21.76
Std Dev 33.19

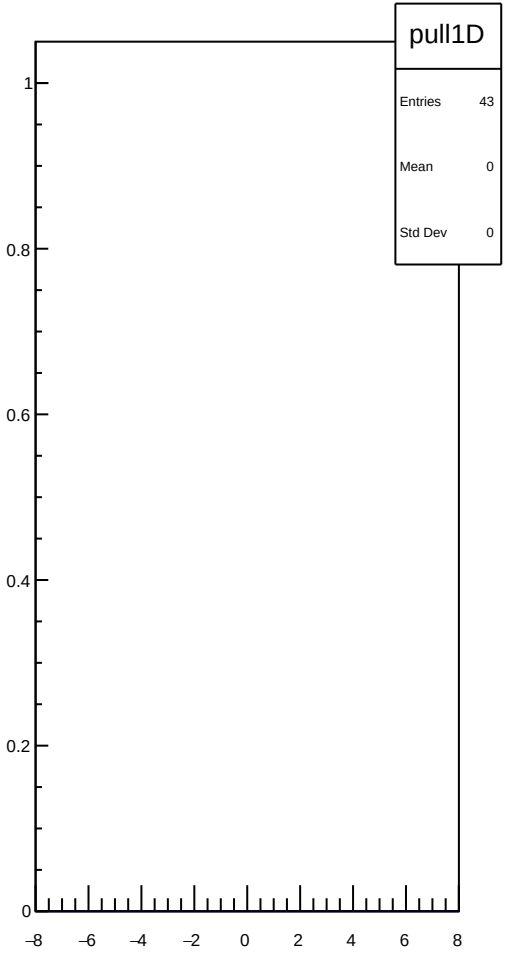

pull1D
Entries 43
Mean −0.02604
Std Dev 0.9012

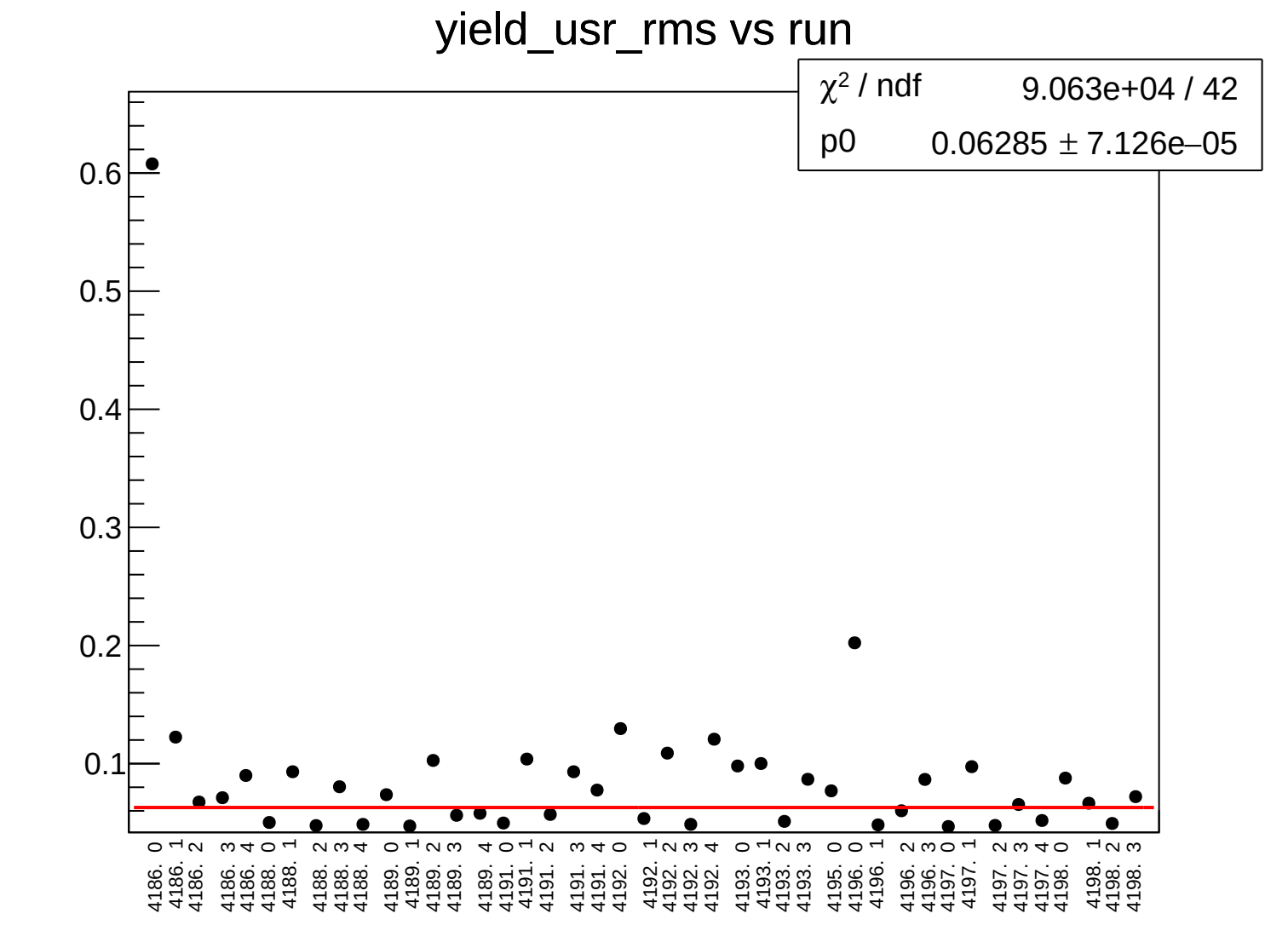

asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ^2 / ndf 3.507e+04 / 42
p0 21.68 ± 0.02374
45
40
35
30
25
20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

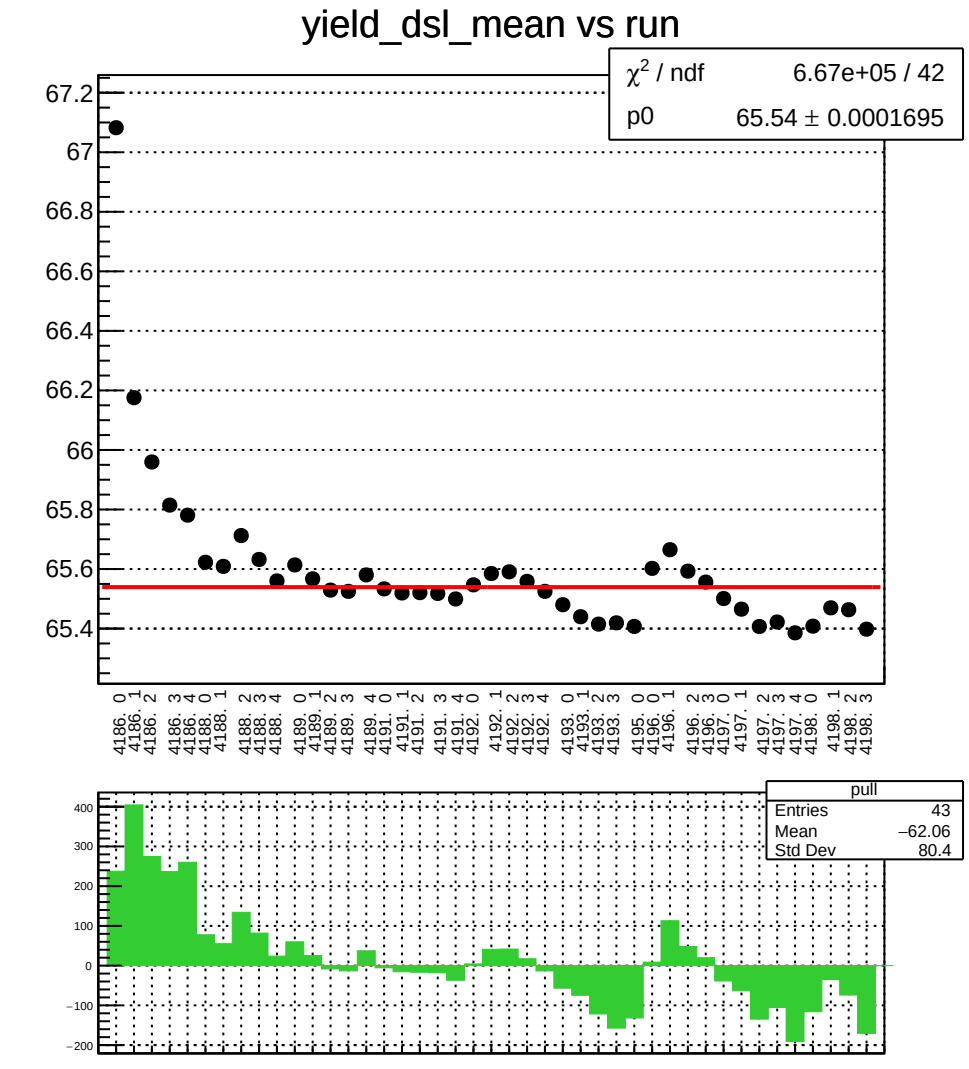

yield_usl_mean vs run
χ² / ndf 2.064e+05 / 42
p0 68.14 ± 0.0001686
69.4
69.2
69
68.8
68.6
68.4
68.2
68
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −0.009532
Std Dev 5.857
200
150
100
50
0
−50
−100
pull1D
Entries 43
Mean −3.488
Std Dev 3.818
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

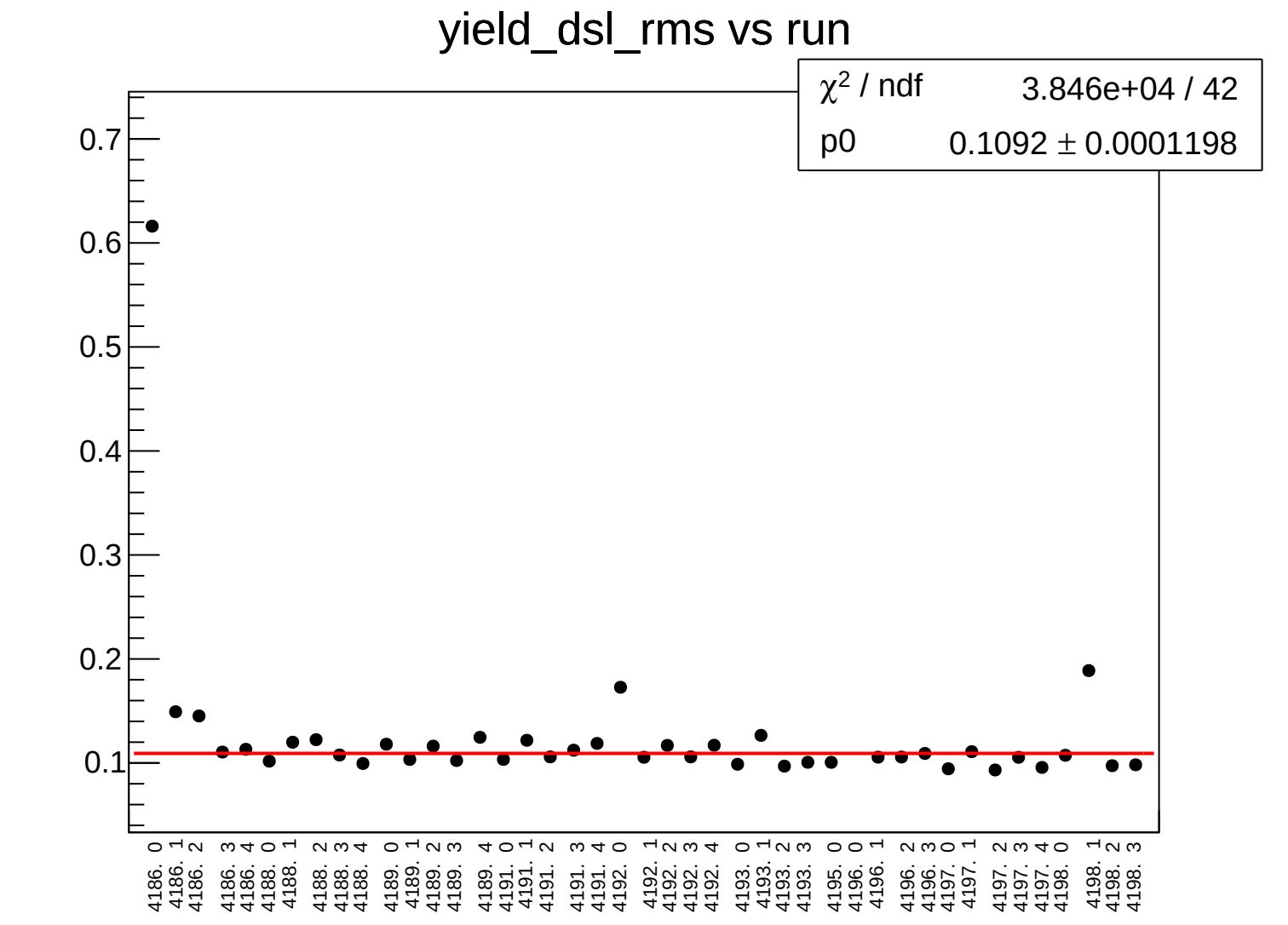

yield_usl_rms vs run
χ² / ndf 3.697e+04 / 42
p0 0.1087 ± 0.0001192
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

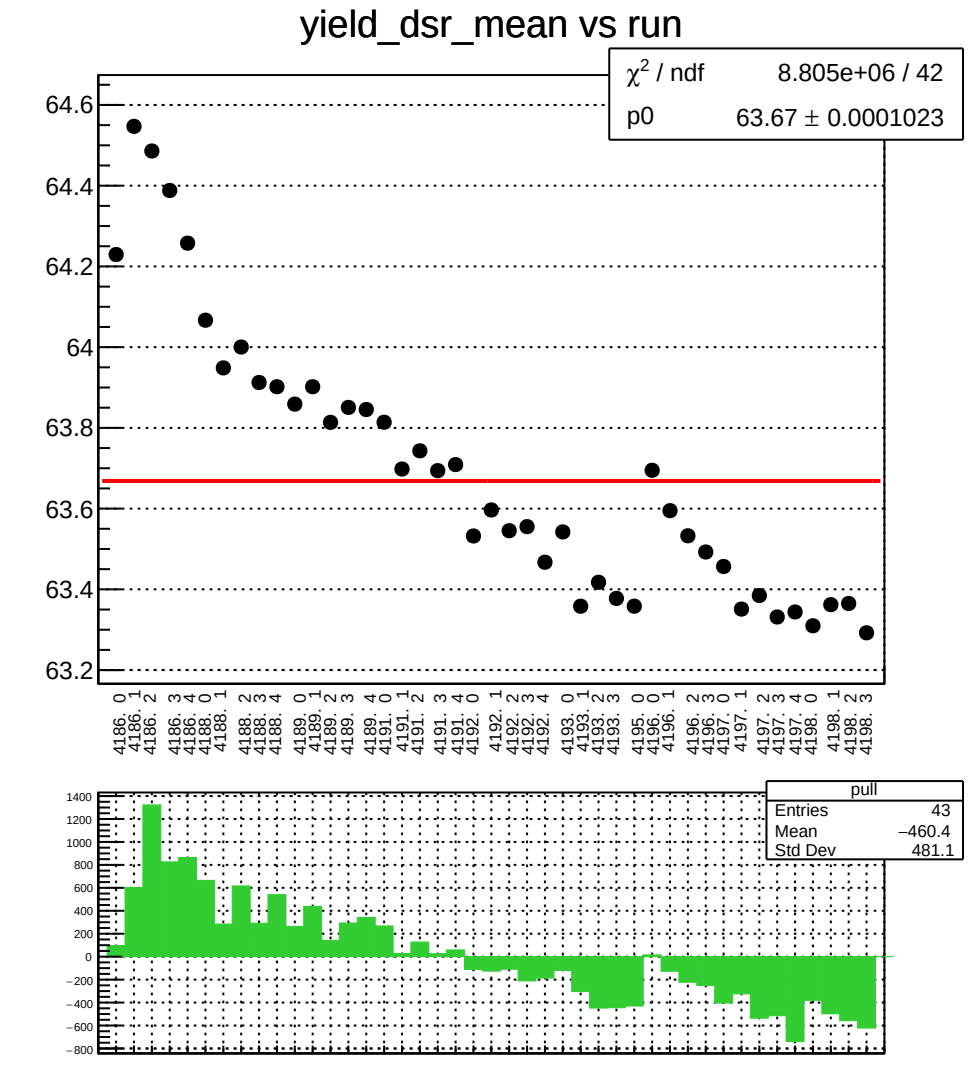

yield_usr_mean vs run
χ² / ndf 1.85e+06 / 42
p0 66.33 ± 0.0001008
66.6
66.5
66.4
66.3
66.2
66.1
66
65.9
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1303
Std Dev 1280
300
200
100
0
−100
−200
−300
−400

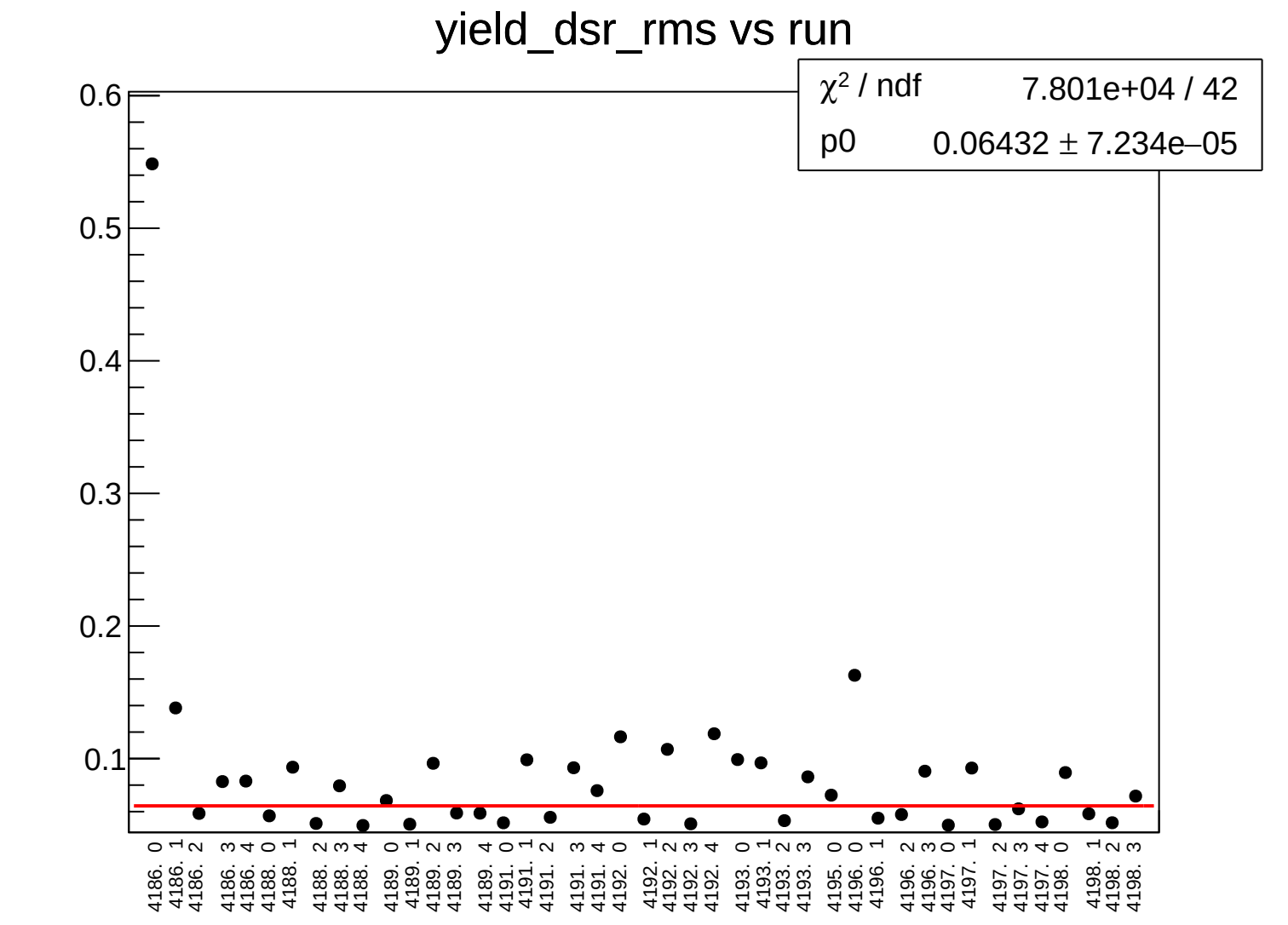

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

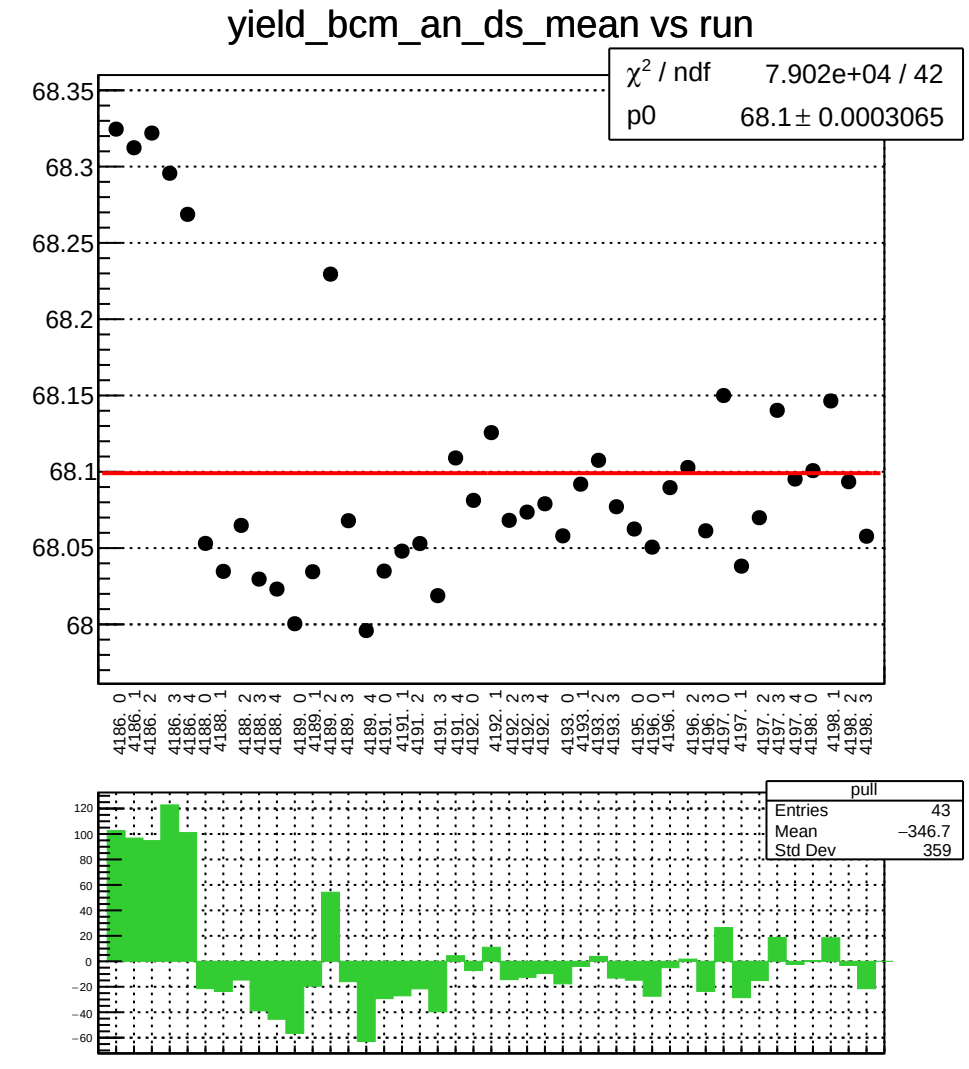

yield_usr_rms vs run
χ² / ndf 9.063e+04 / 42
p0 0.06285 ± 7.126e–05
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

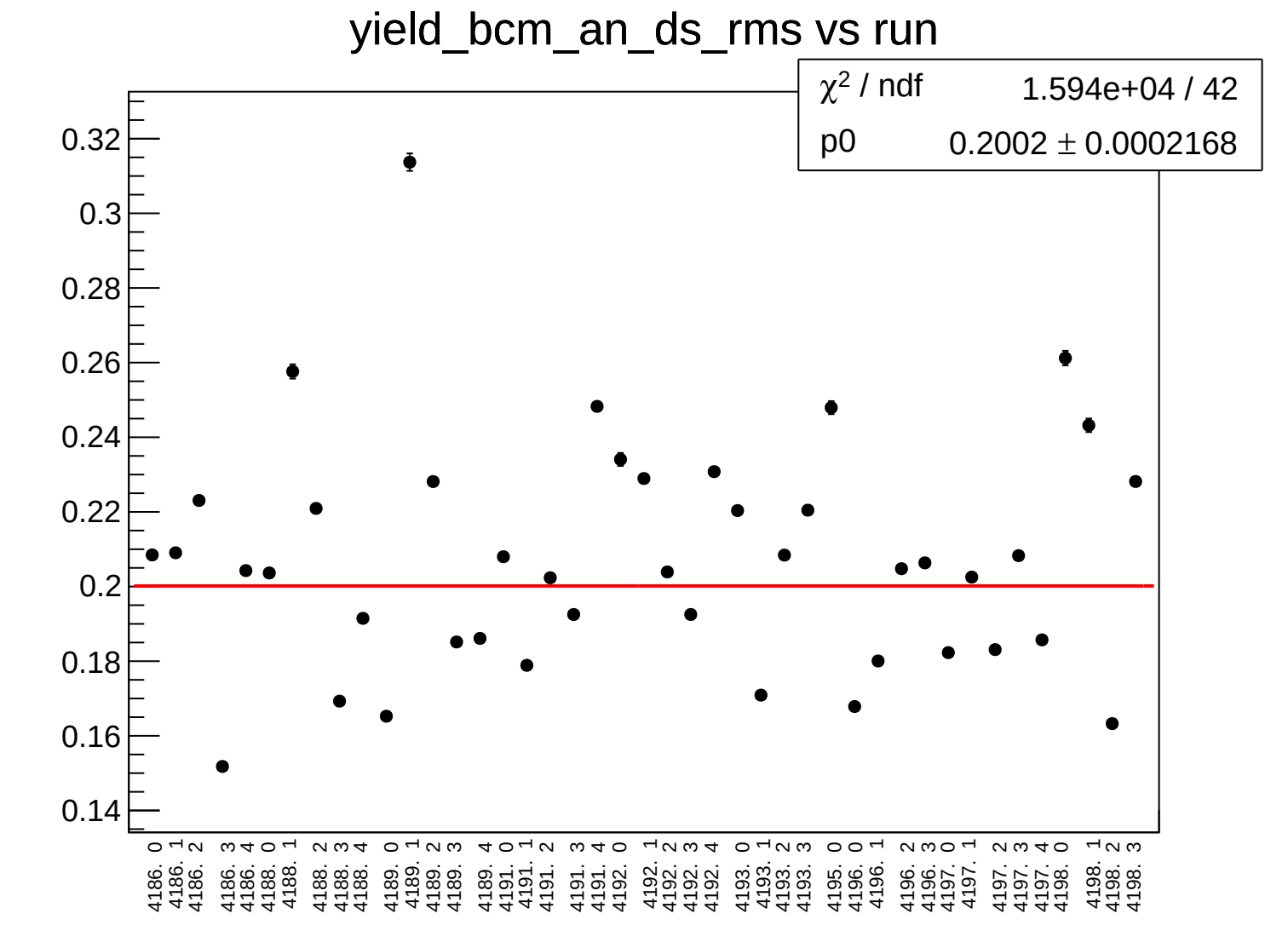

yield_dsl_mean vs run
χ² / ndf 6.67e+05 / 42
p0 65.54 ± 0.0001695
67.2
67
66.8
66.6
66.4
66.2
66
65.8
65.6
65.4
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −62.06
Std Dev 80.4
400
300
200
100
0
−100
−200
pull1D
Entries 43
Mean −0.6076
Std Dev 4.805
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

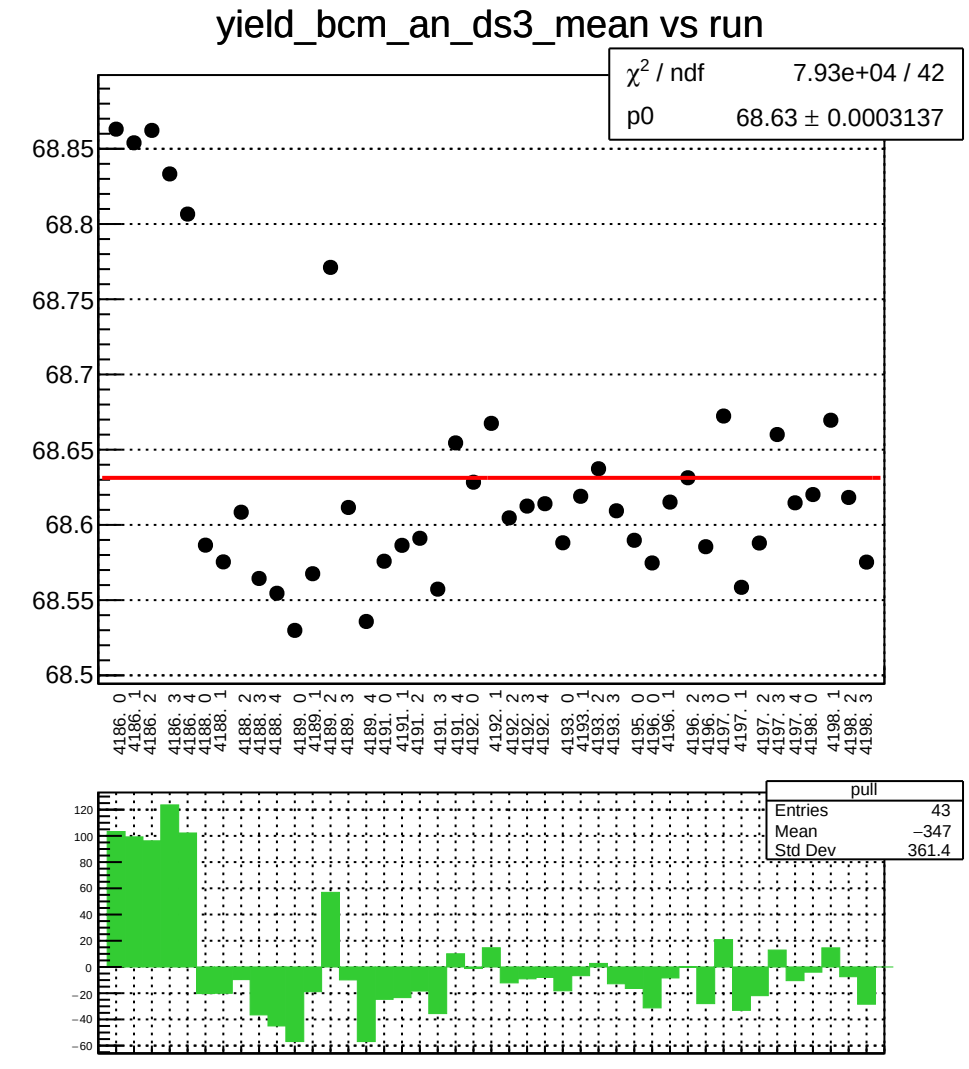

yield_dsl_rms vs run
χ² / ndf 3.846e+04 / 42
p0 0.1092 ± 0.0001198
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

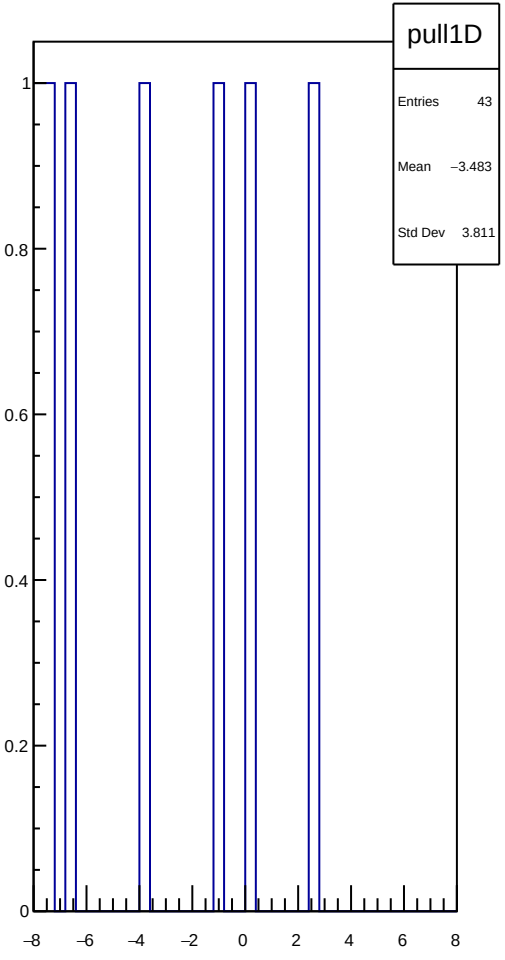

yield_dsr_mean vs run
χ² / ndf 8.805e+06 / 42
p0 63.67 ± 0.0001023
64.6
64.4
64.2
64
63.8
63.6
63.4
63.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −460.4
Std Dev 481.1
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

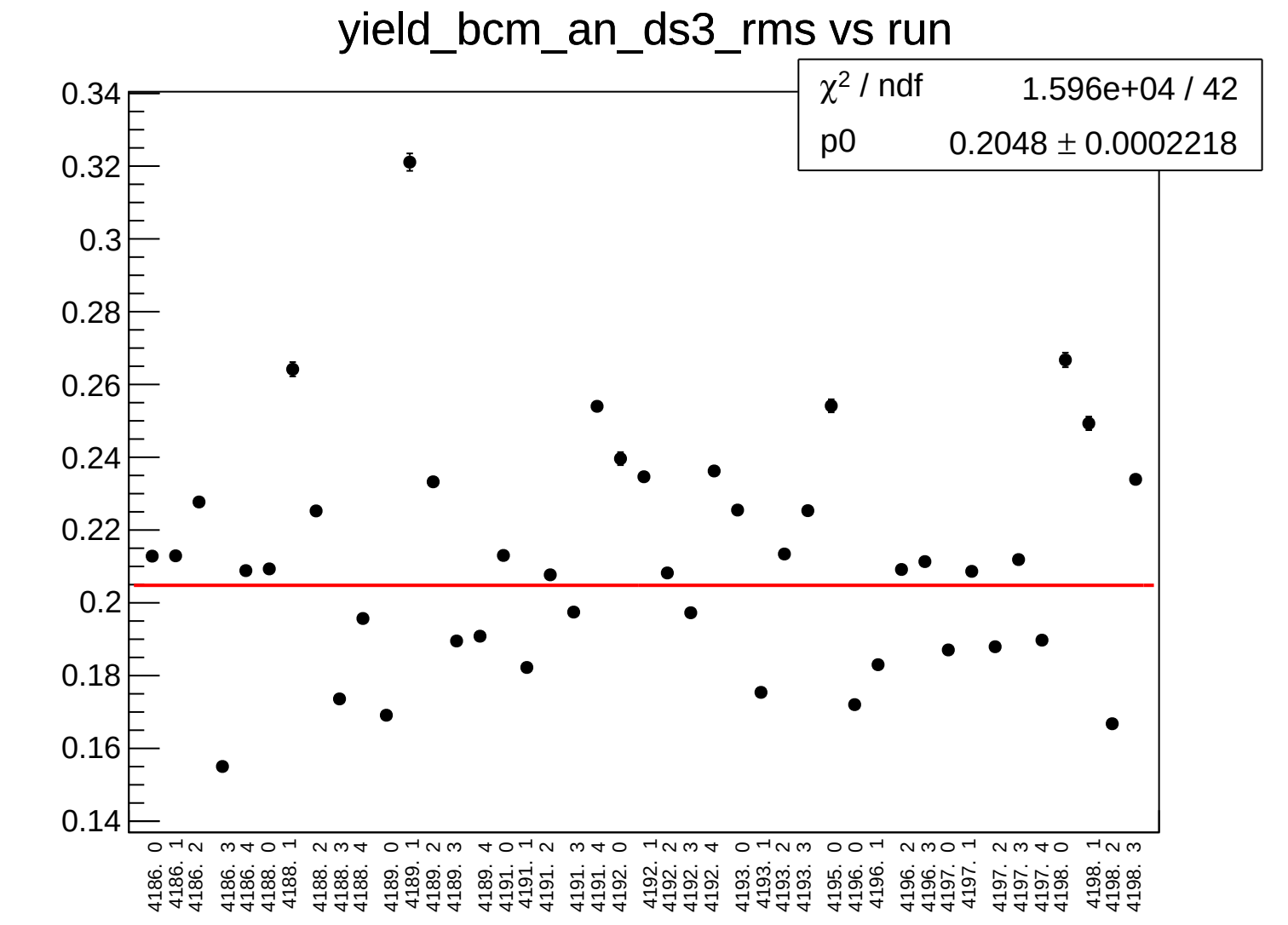

yield_dsr_rms vs run
χ² / ndf 7.801e+04 / 42
p0 0.06432 ± 7.234e–05
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

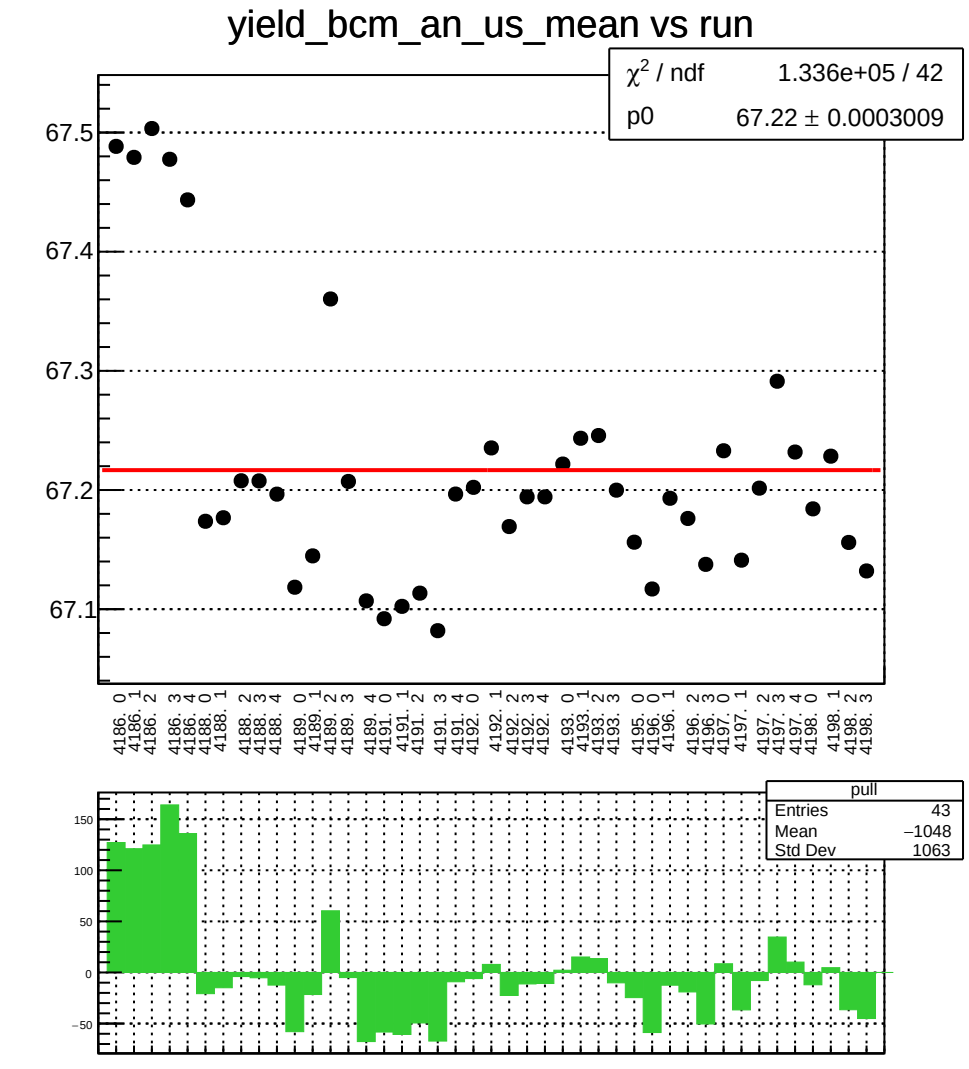

yield_bcm_an_ds_mean vs run
χ² / ndf 7.902e+04 / 42
p0 68.1 ± 0.0003065
68.35
68.3
68.25
68.2
68.15
68.1
68.05
68
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −346.7
Std Dev 359
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean −1.261
Std Dev 3.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

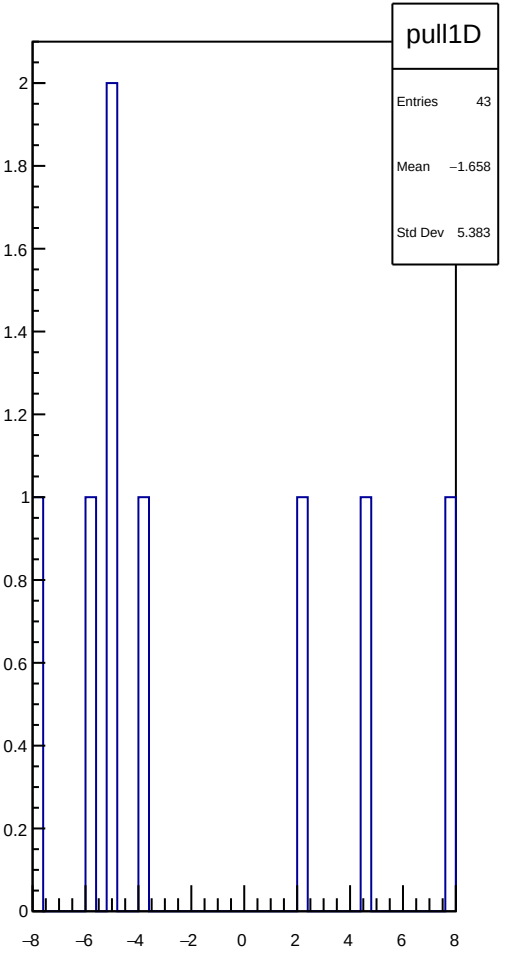

yield_bcm_an_ds_rms vs run
χ² / ndf 1.594e+04 / 42
p0 0.2002 ± 0.0002168
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

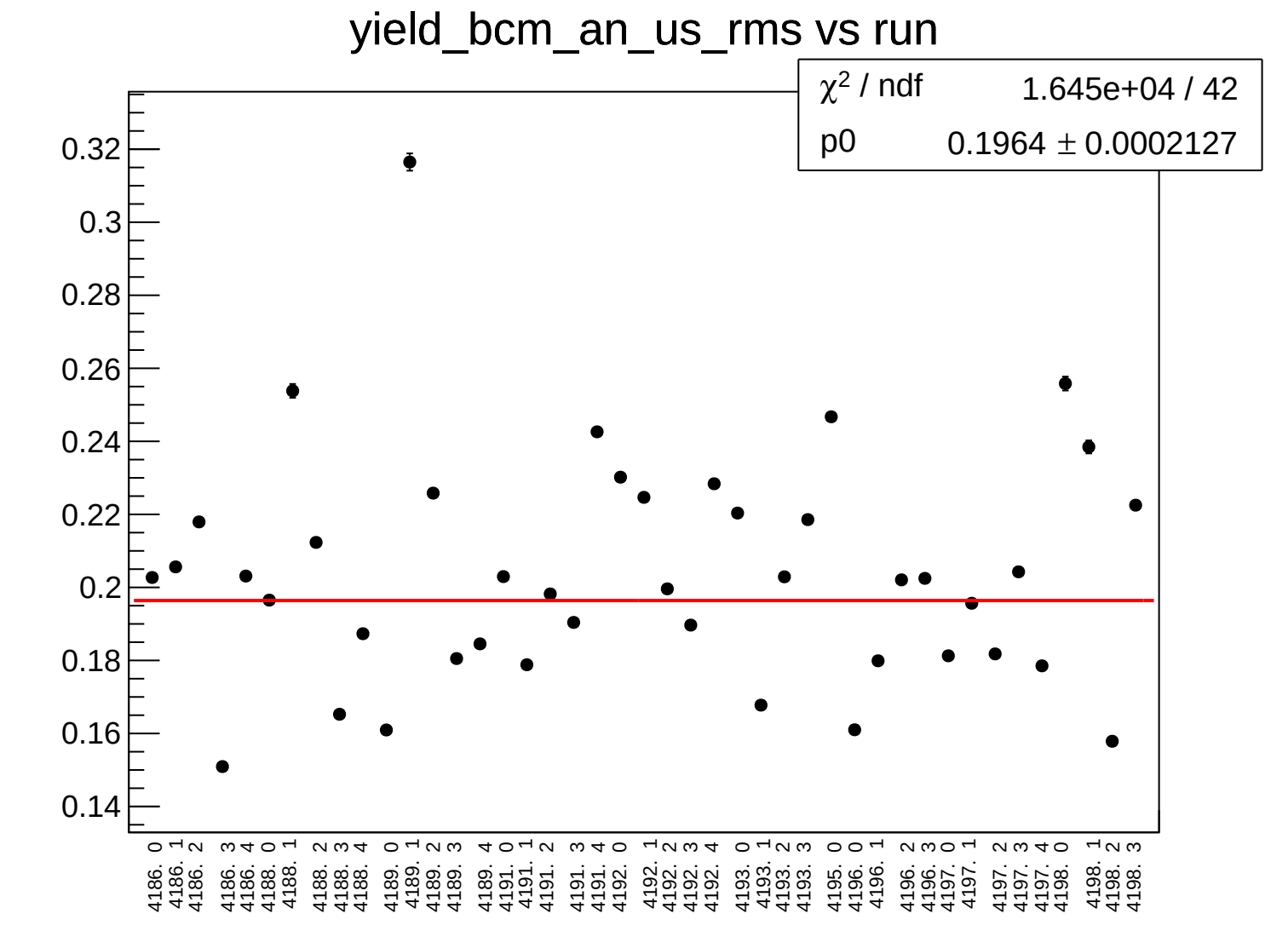

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.93e+04 / 42
p0 68.63 ± 0.0003137
68.85
68.8
68.75
68.7
68.65
68.6
68.55
68.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −347
Std Dev 361.4
120
100
80
60
40
20
0
−20
−40
−60

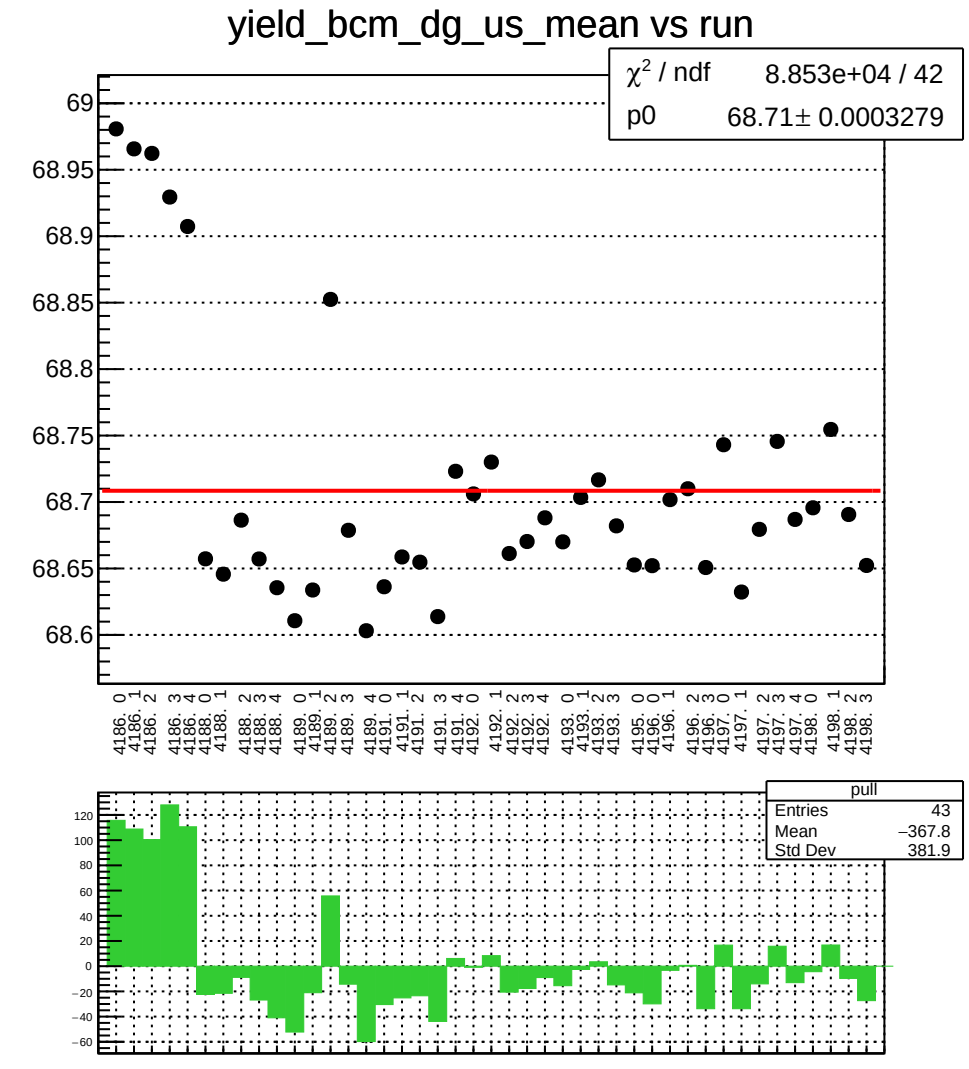

pull1D
Entries 43
Mean −3.483
Std Dev 3.811
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

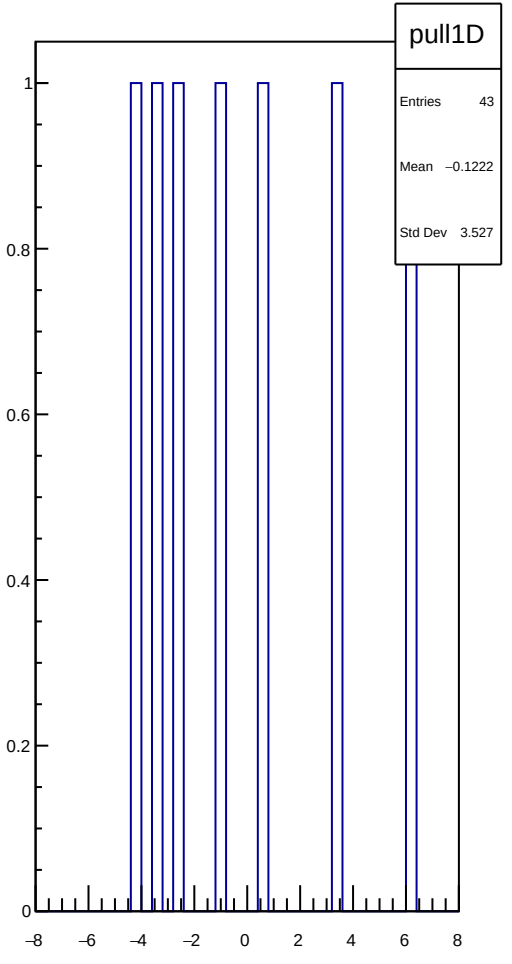

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.596e+04 / 42
p0 0.2048 ± 0.0002218
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

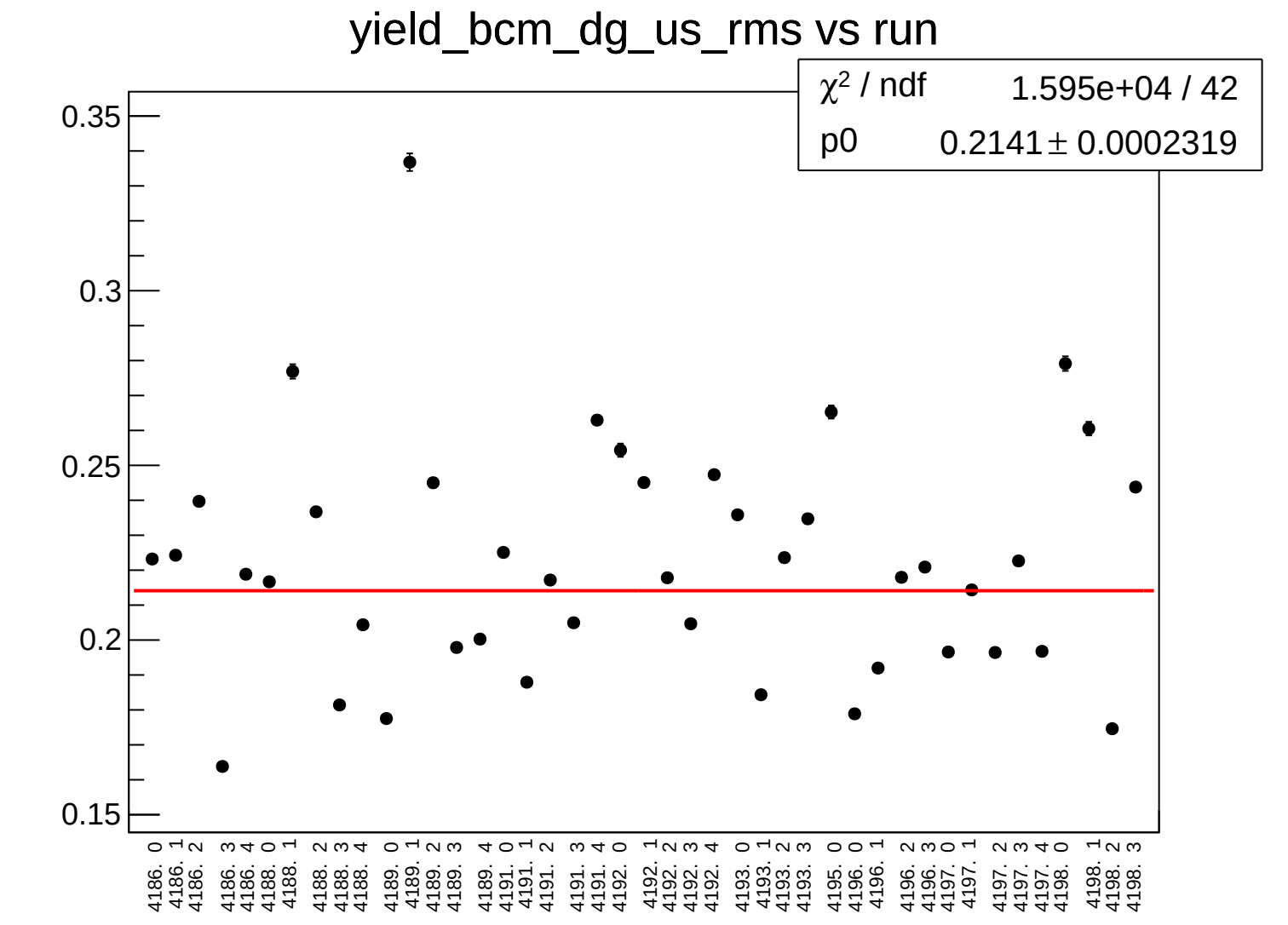

yield_bcm_an_us_mean vs run
χ² / ndf 1.336e+05 / 42
p0 67.22 ± 0.0003009
67.5
67.4
67.3
67.2
67.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1048
Std Dev 1063
150
100
50
0
−50

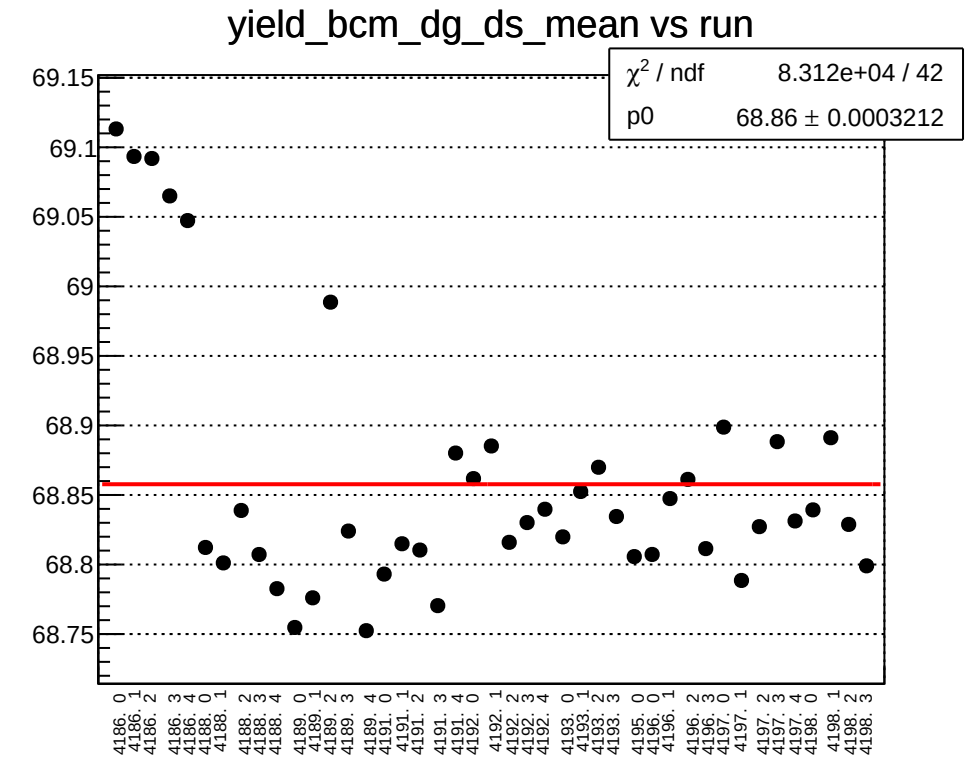

pull1D
Entries 43
Mean −1.658
Std Dev 5.383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

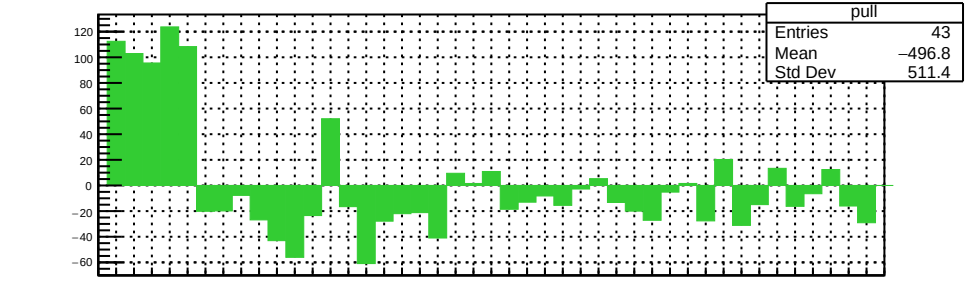

yield_bcm_an_us_rms vs run
χ² / ndf 1.645e+04 / 42
p0 0.1964 ± 0.0002127
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

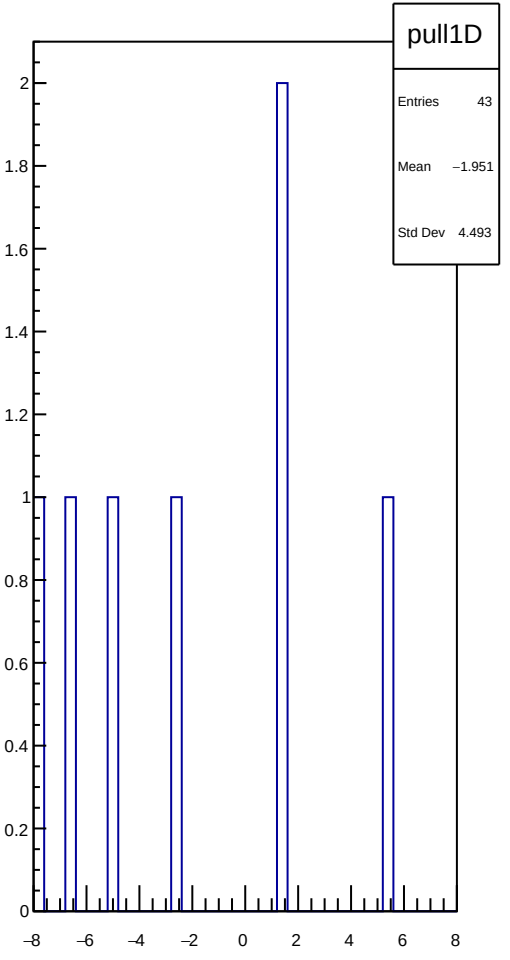

yield_bcm_dg_us_mean vs run
χ² / ndf 8.853e+04 / 42
p0 68.71± 0.0003279
69
68.95
68.9
68.85
68.8
68.75
68.7
68.65
68.6
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −367.8
Std Dev 381.9
120
100
80
60
40
20
0
−20
−40
−60

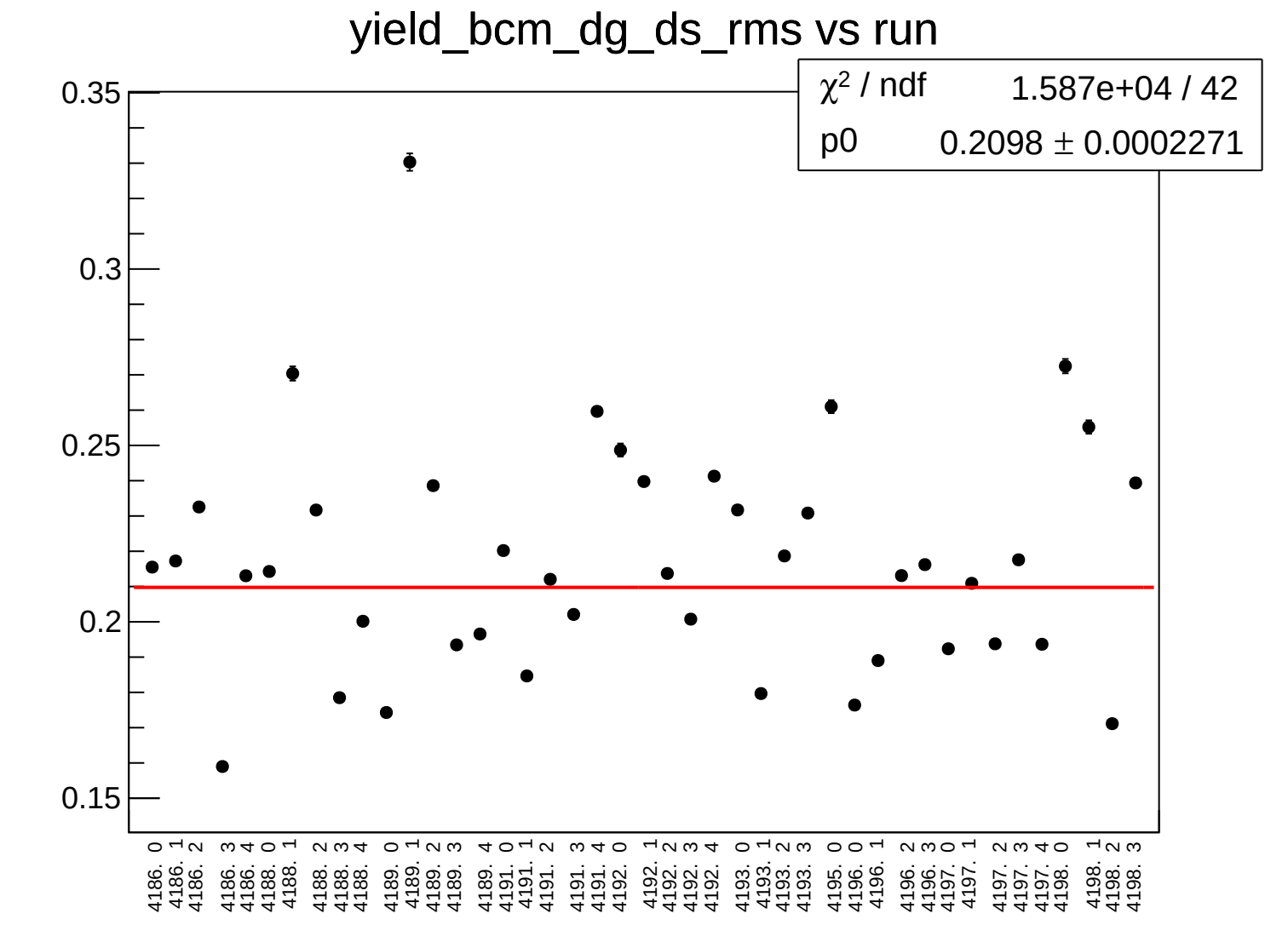

pull1D
Entries 43
Mean −0.1222
Std Dev 3.527
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

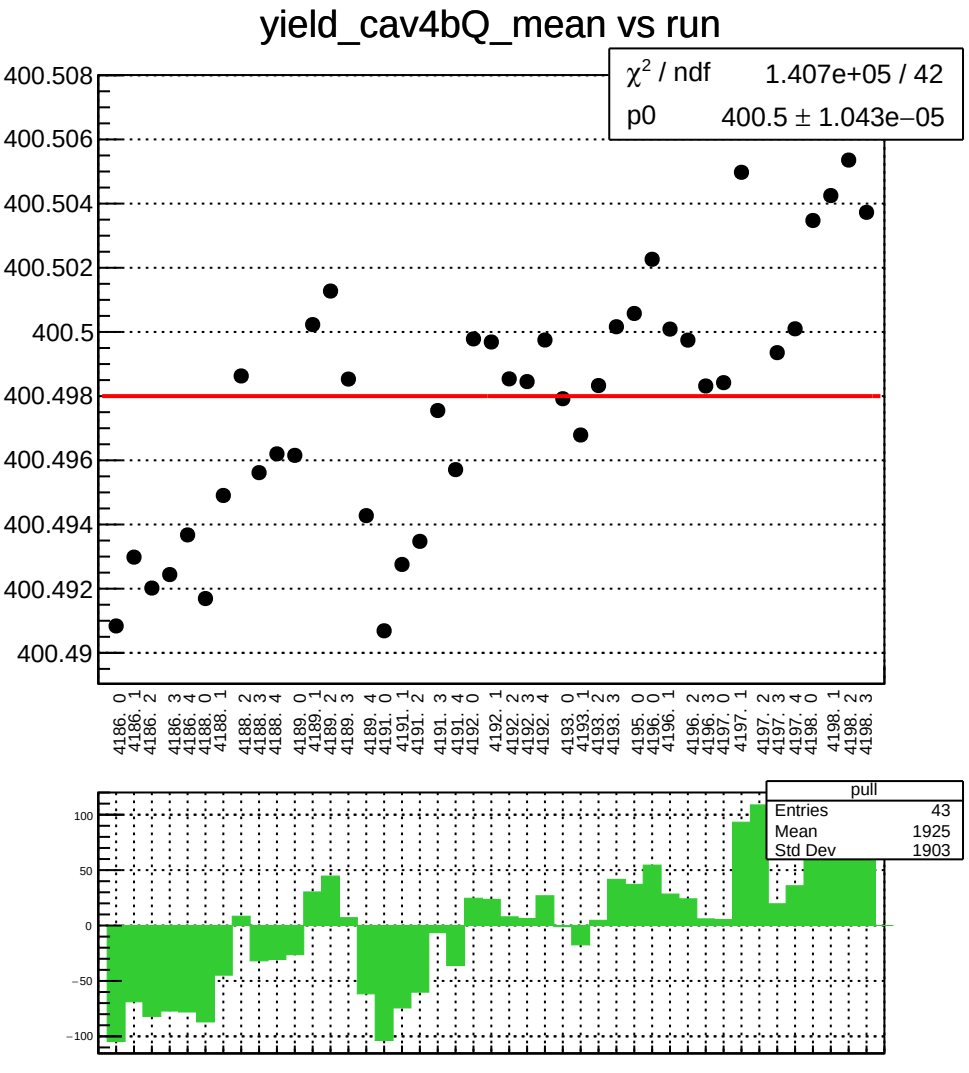

yield_bcm_dg_us_rms vs run
χ² / ndf 1.595e+04 / 42
p0 0.2141 ± 0.0002319
0.35
0.3
0.25
0.2
0.15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

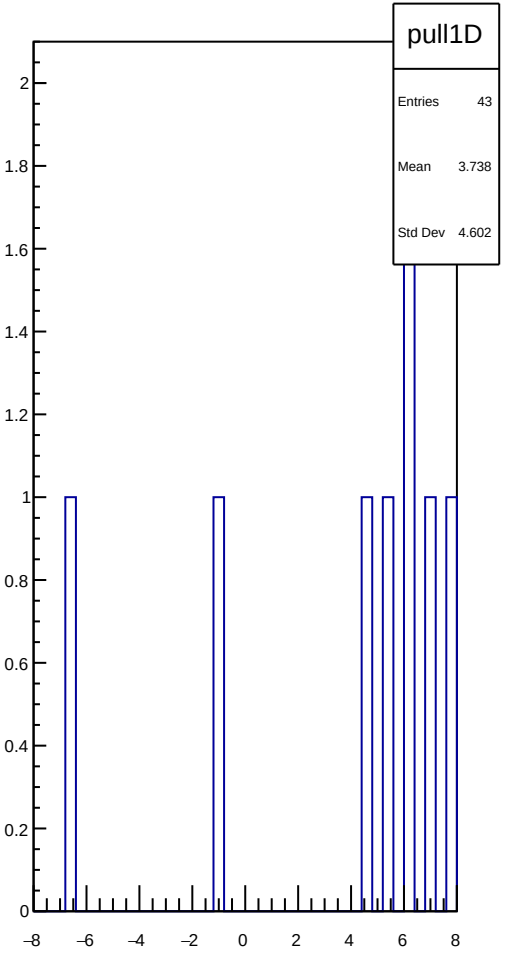

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.312e+04 / 42
p0 68.86 ± 0.0003212
69.15
69.1
69.05
69
68.95
68.9
68.85
68.8
68.75
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

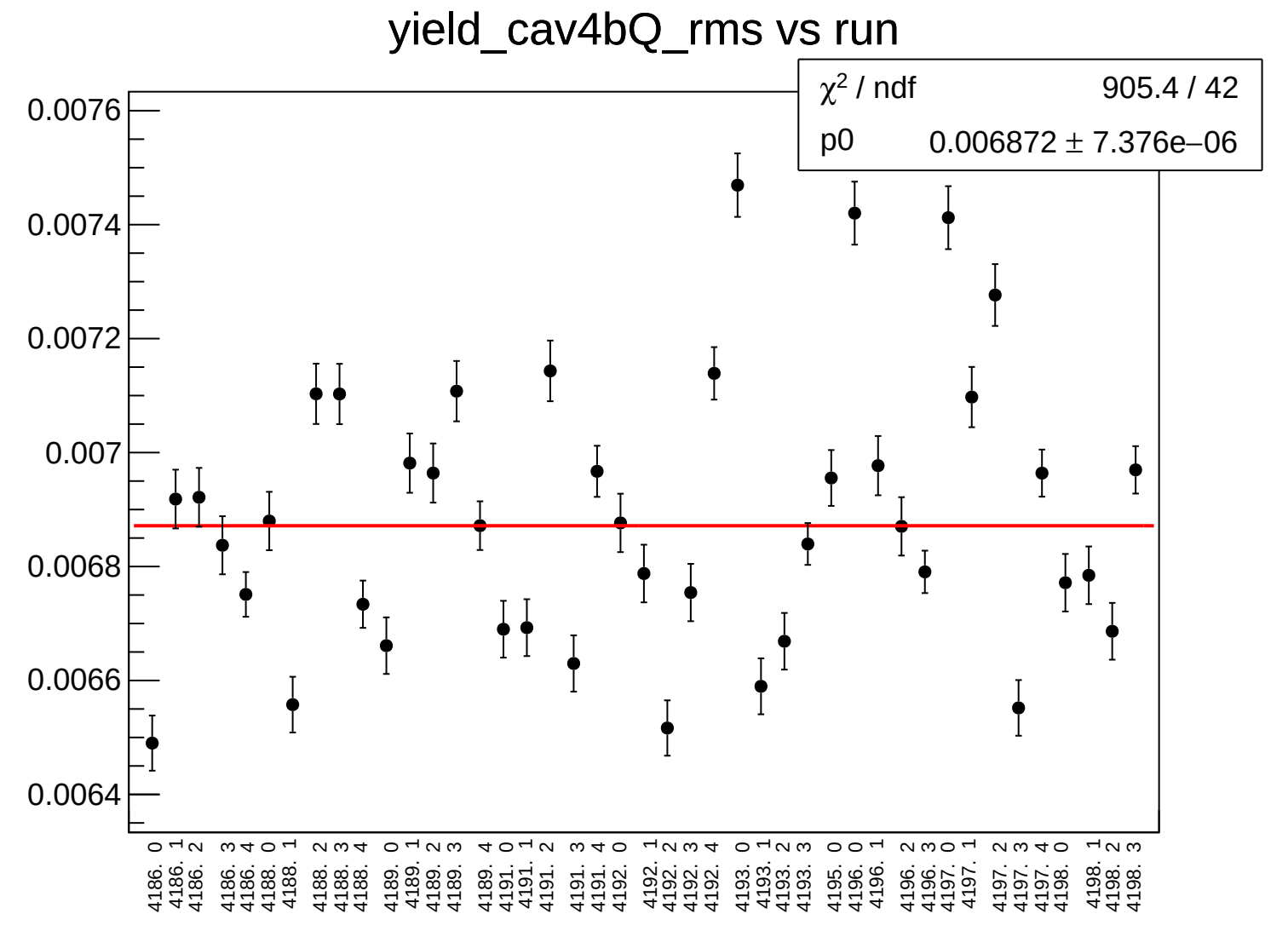

pull
Entries 43
Mean −496.8
Std Dev 511.4
120
100
80
60
40
20
0
−20
−40
−60

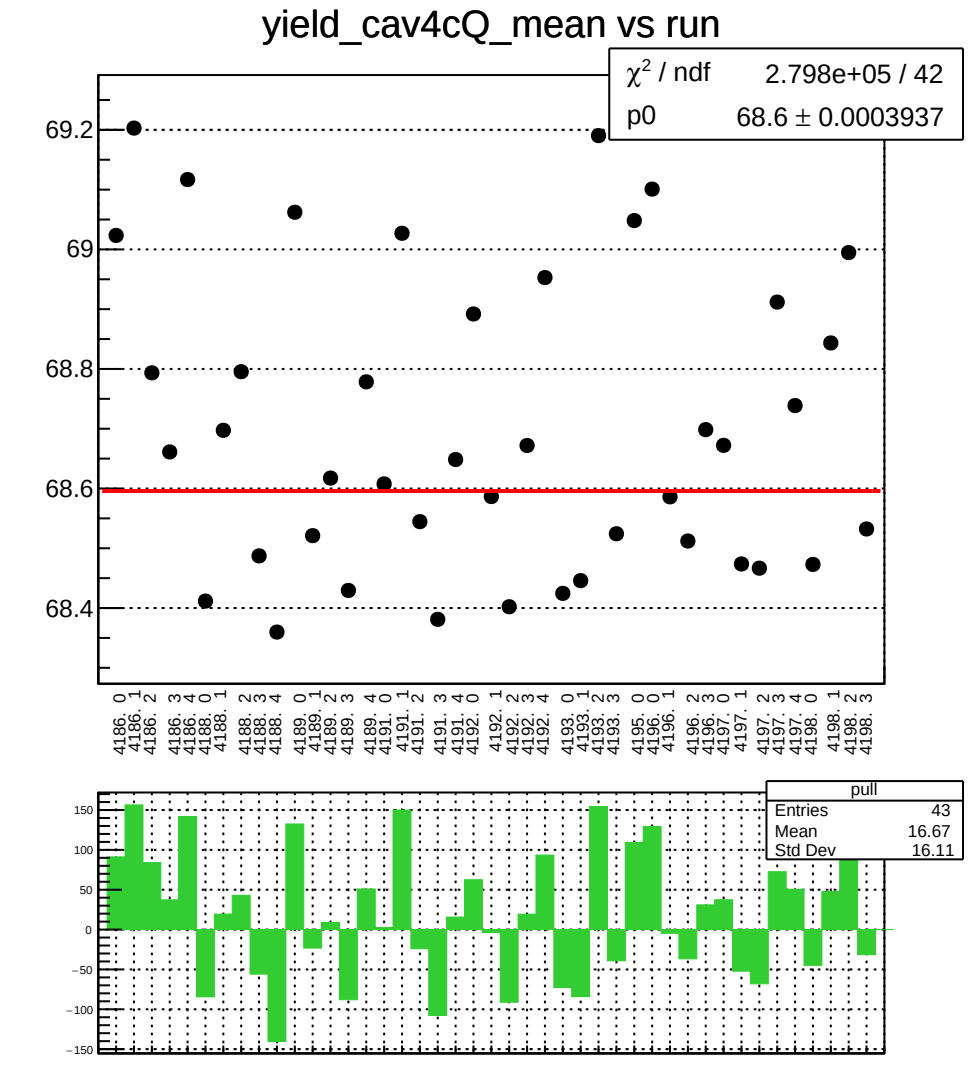

pull1D
Entries 43
Mean −1.951
Std Dev 4.493
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

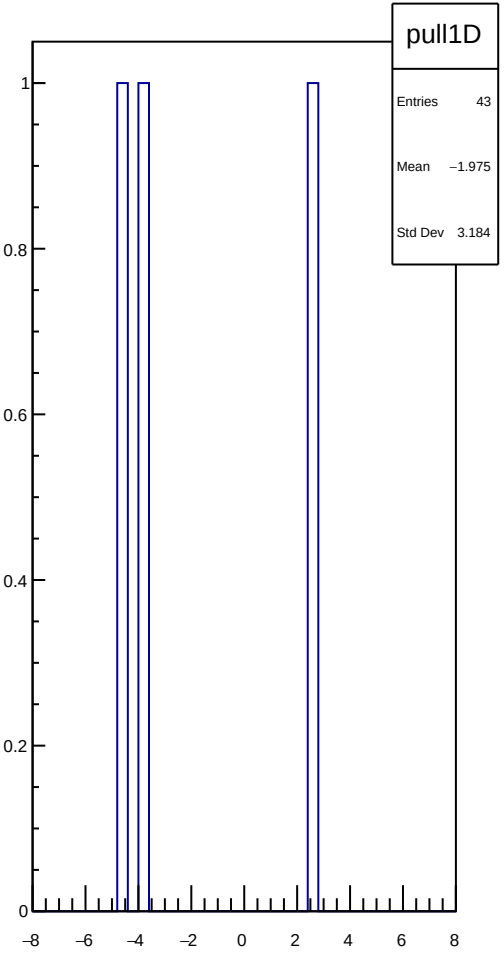

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.587e+04 / 42
p0 0.2098 ± 0.0002271
0.35
0.3
0.25
0.2
0.15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

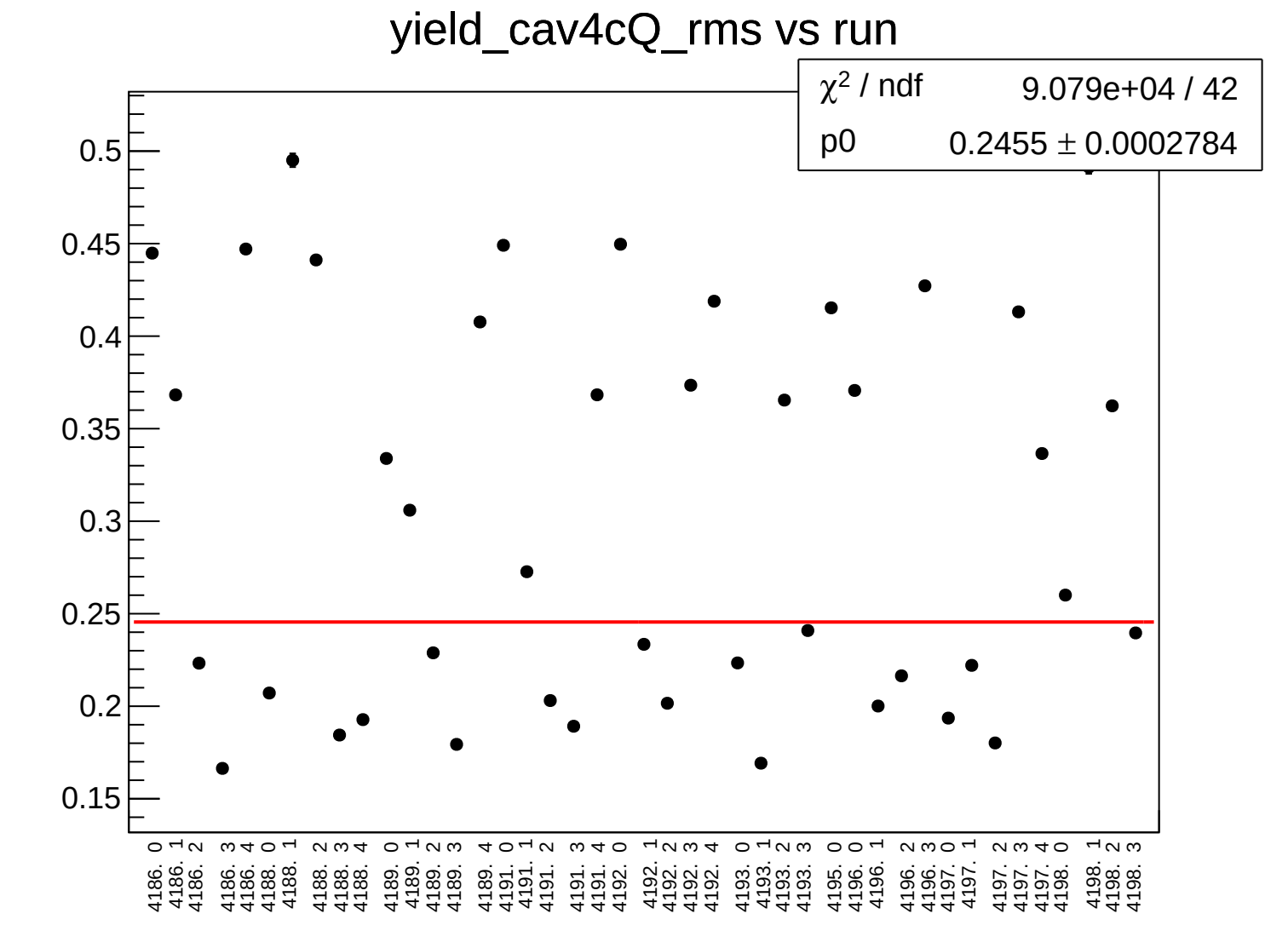

yield_cav4bQ_mean vs run
χ² / ndf 1.407e+05 / 42
p0 400.5 ± 1.043e−05
400.508
400.506
400.504
400.502
400.5
400.498
400.496
400.494
400.492
400.49
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1925
Std Dev 1903
100
50
0
−50
−100

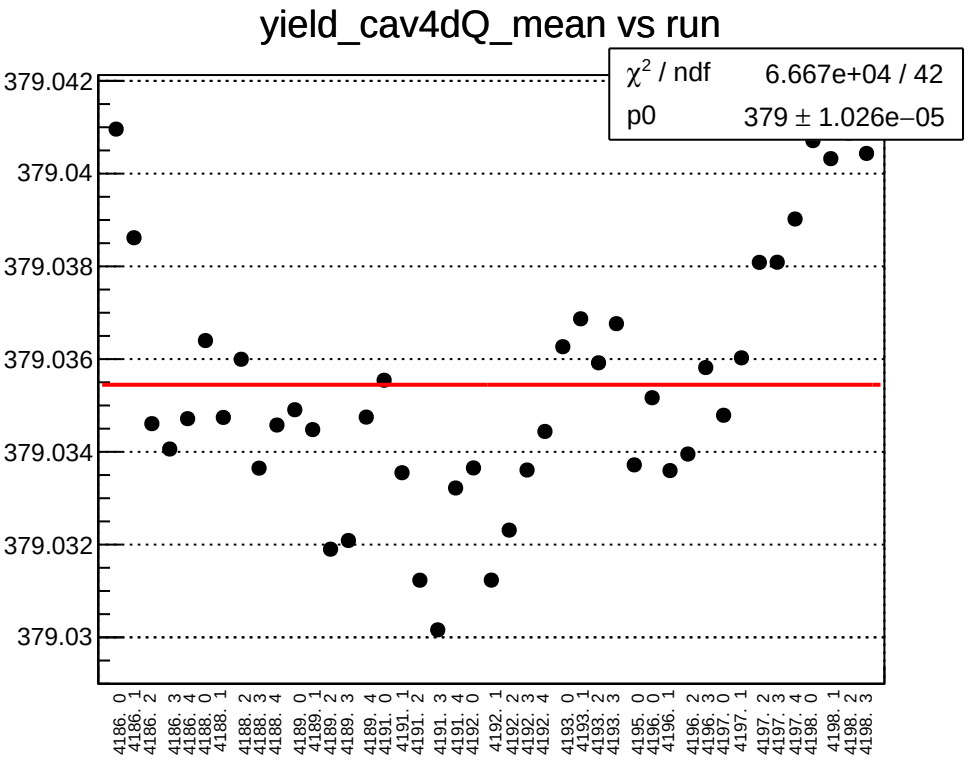

pull1D
Entries 43
Mean 3.738
Std Dev 4.602
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

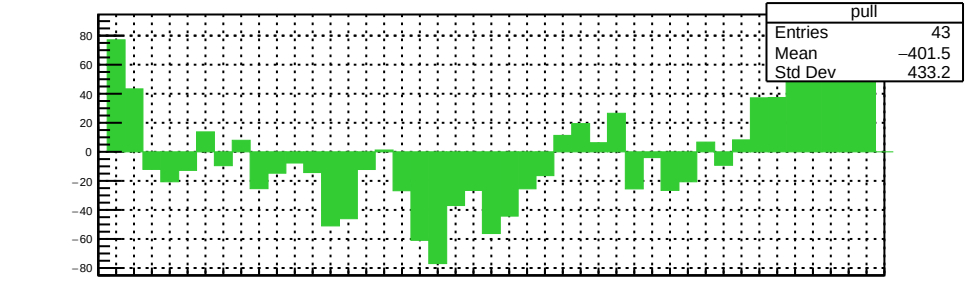

yield_cav4bQ_rms vs run
χ² / ndf 905.4 / 42
p0 0.006872 ± 7.376e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

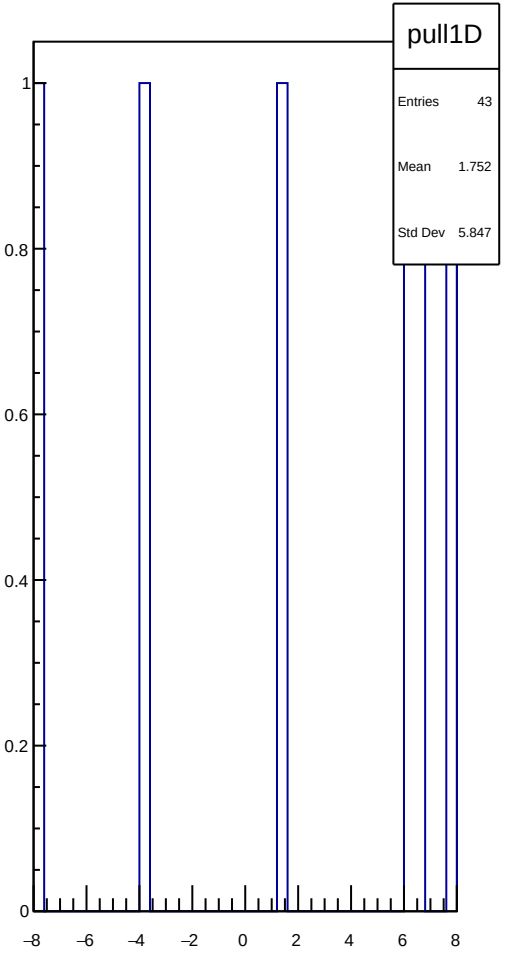

yield_cav4cQ_mean vs run
χ² / ndf 2.798e+05 / 42
p0 68.6 ± 0.0003937
69.2
69
68.8
68.6
68.4
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 16.67
Std Dev 16.11
150
100
50
0
−50
−100
−150

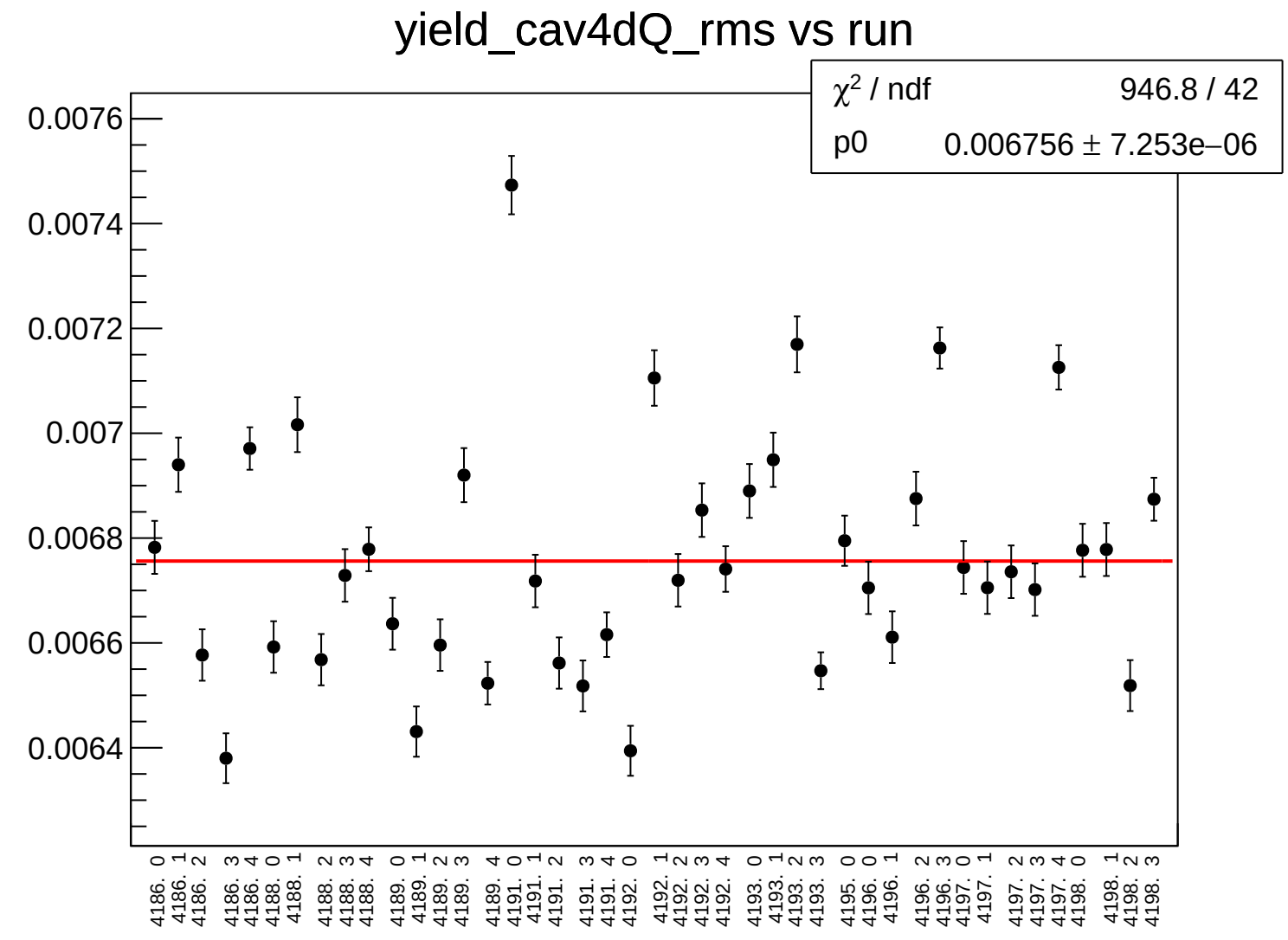

pull1D
Entries 43
Mean −1.975
Std Dev 3.184
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

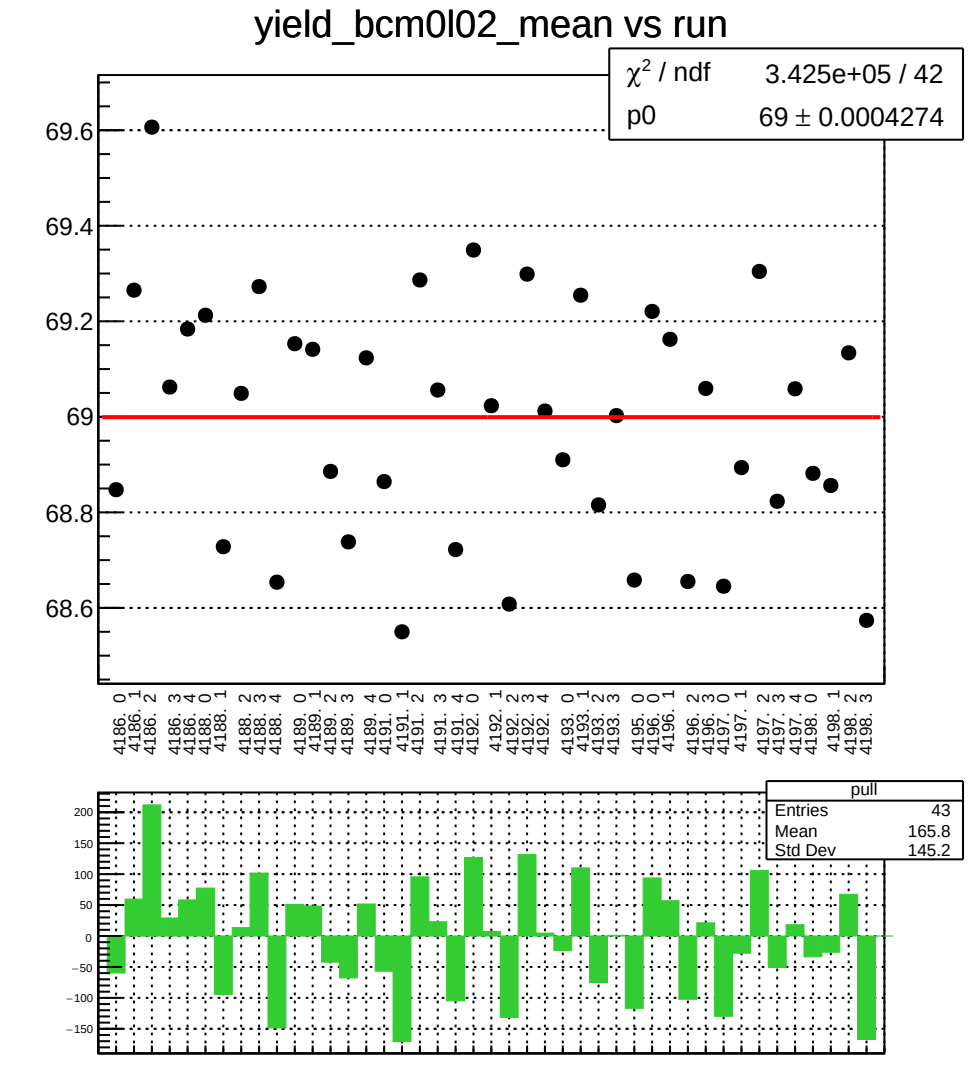

yield_cav4cQ_rms vs run
χ² / ndf 9.079e+04 / 42
p0 0.2455 ± 0.0002784
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

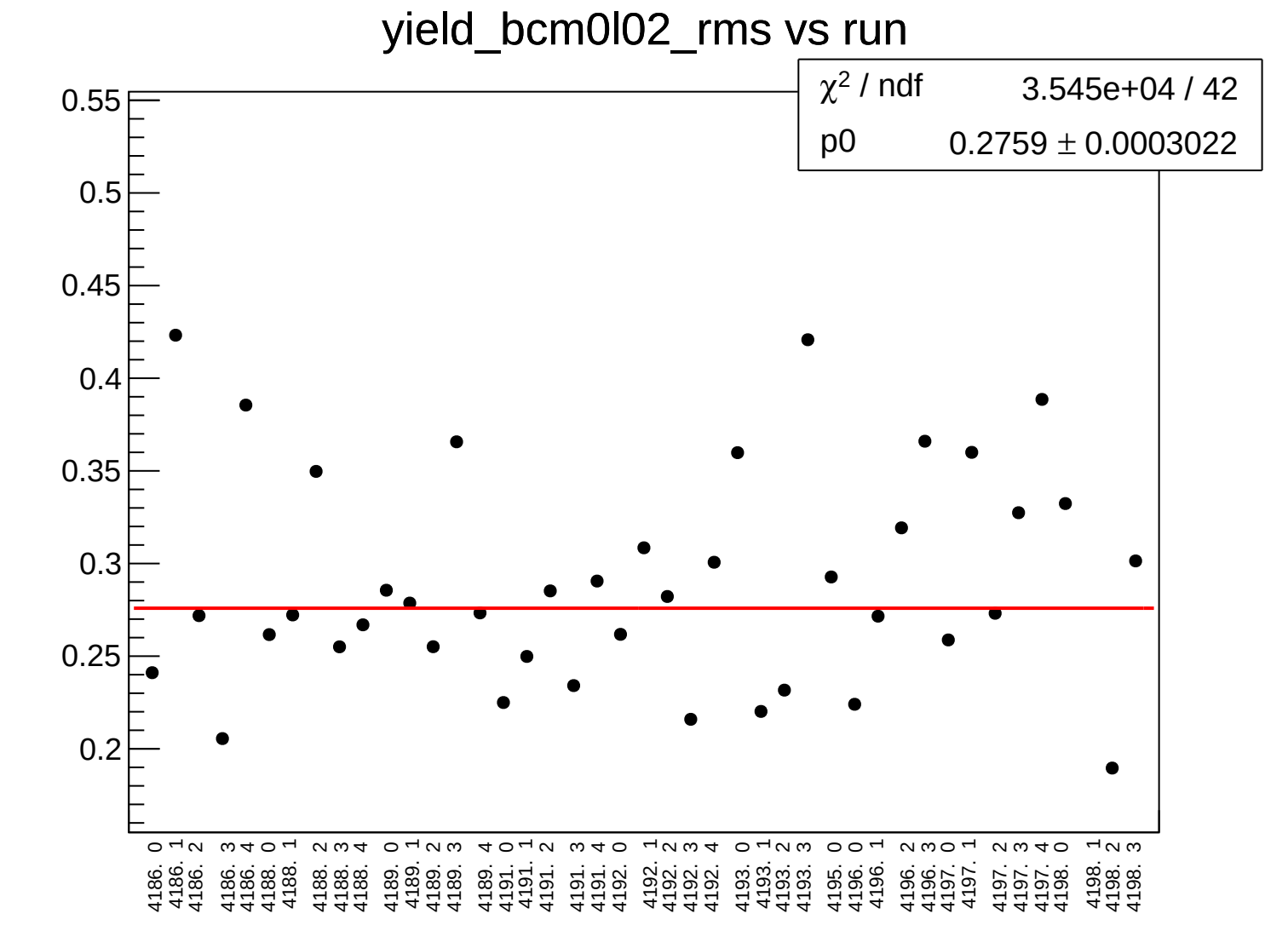

yield_cav4dQ_mean vs run
χ² / ndf 6.667e+04 / 42
p0 379 ± 1.026e−05
379.042
379.04
379.038
379.036
379.034
379.032
379.03
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

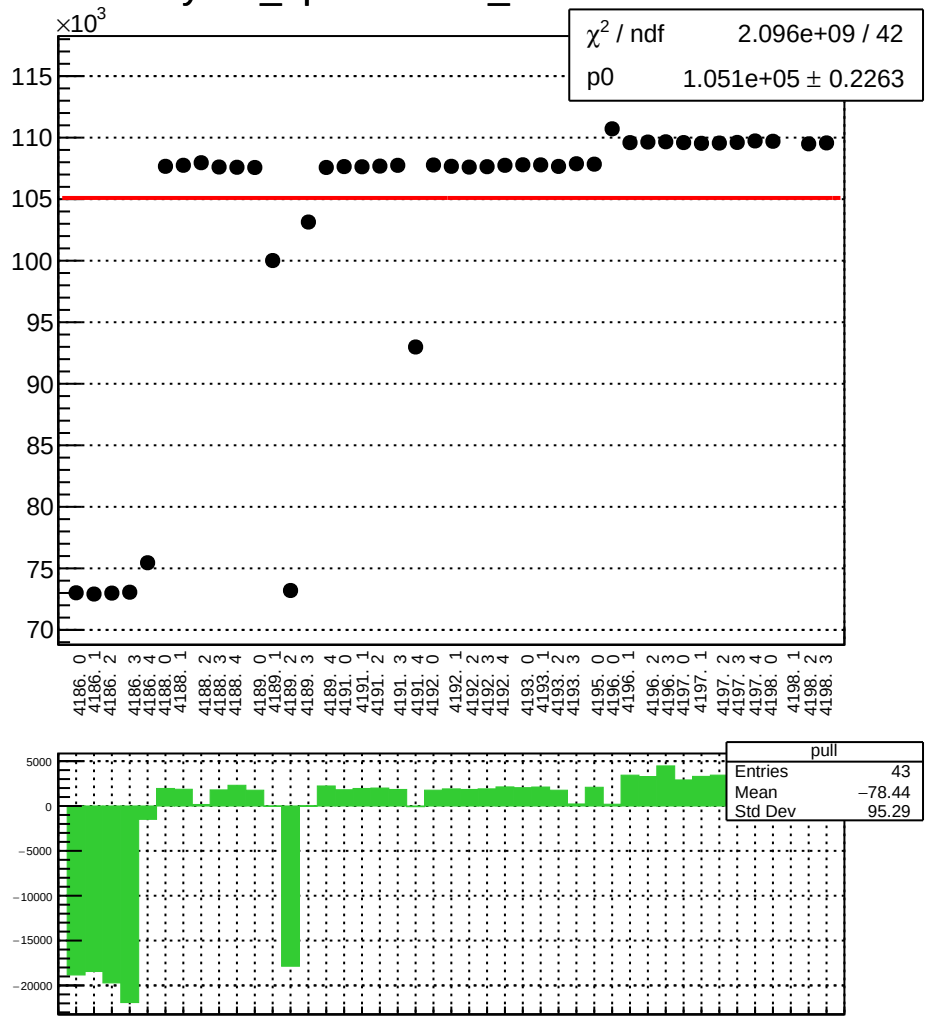

pull
Entries 43
Mean −401.5
Std Dev 433.2
80
60
40
20
0
−20
−40
−60
−80

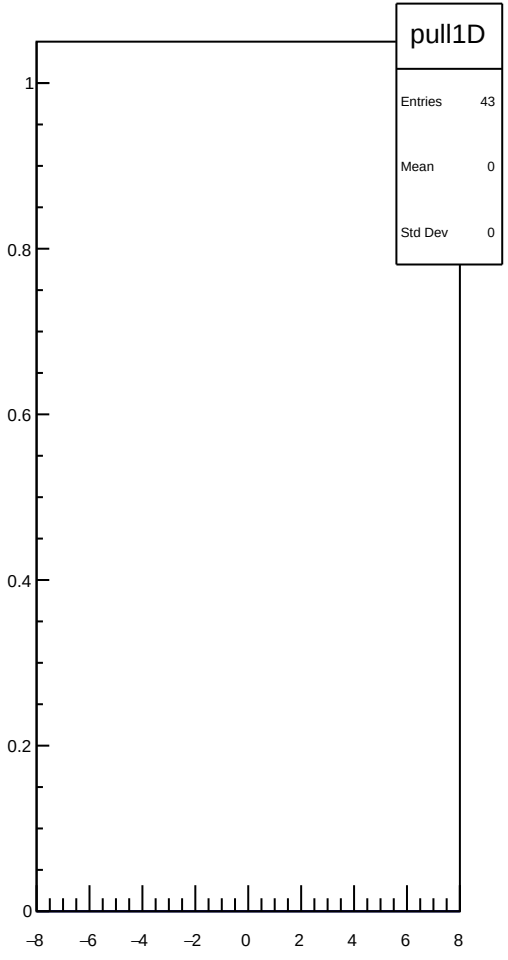

pull1D
Entries 43
Mean 1.752
Std Dev 5.847
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

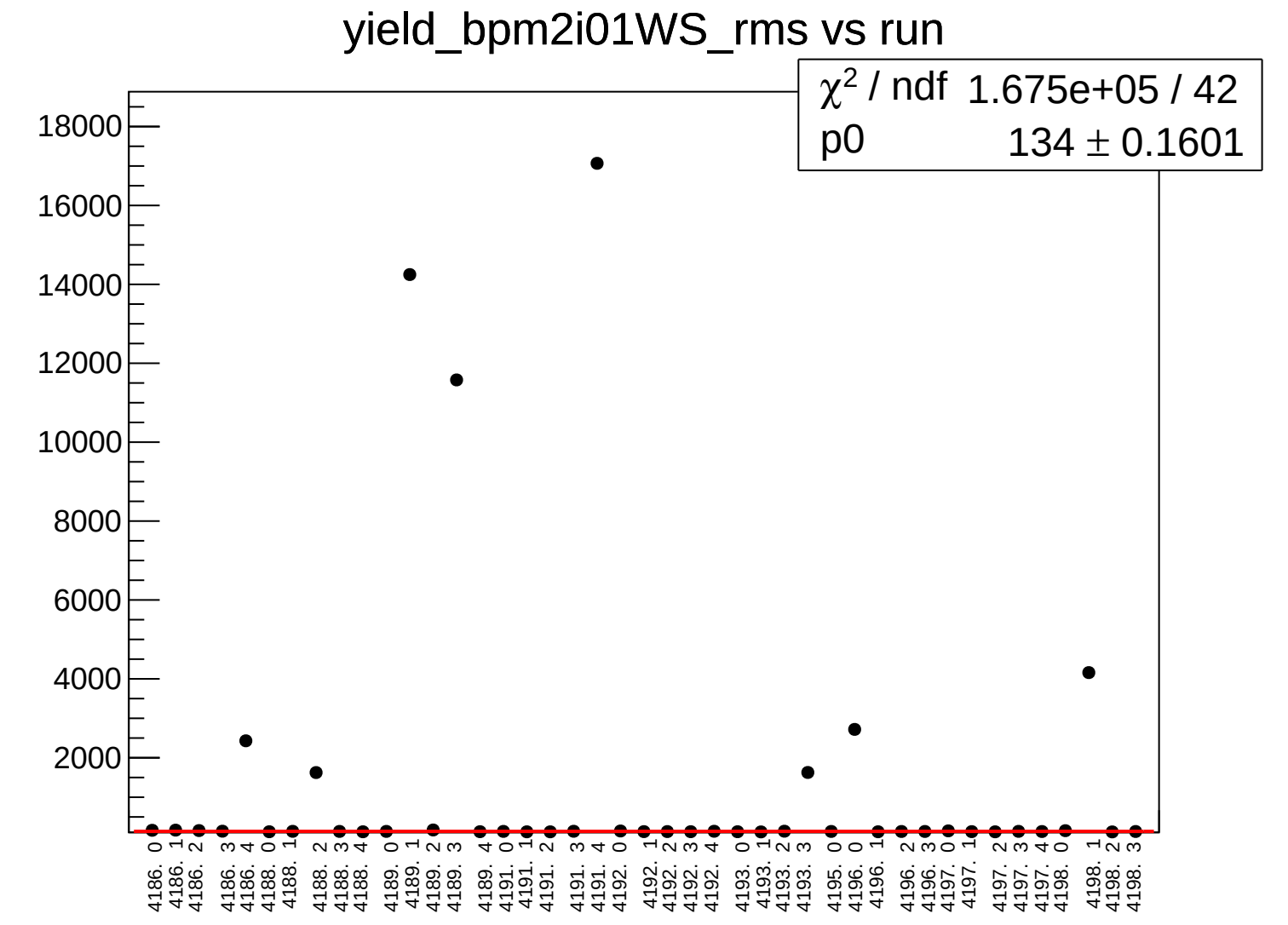

yield_cav4dQ_rms vs run
χ² / ndf 946.8 / 42
p0 0.006756 ± 7.253e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

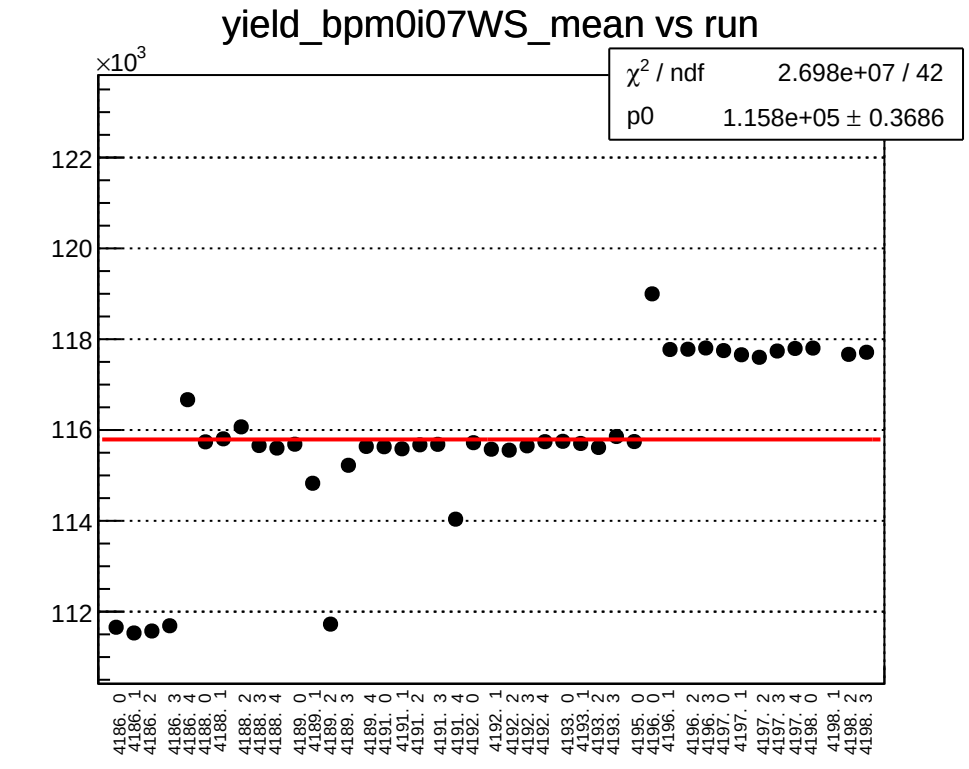

yield_bcm0l02_mean vs run
χ² / ndf 3.425e+05 / 42
p0 69 ± 0.0004274
69.6
69.4
69.2
69
68.8
68.6
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 165.8
Std Dev 145.2
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean 4.359
Std Dev 2.603
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

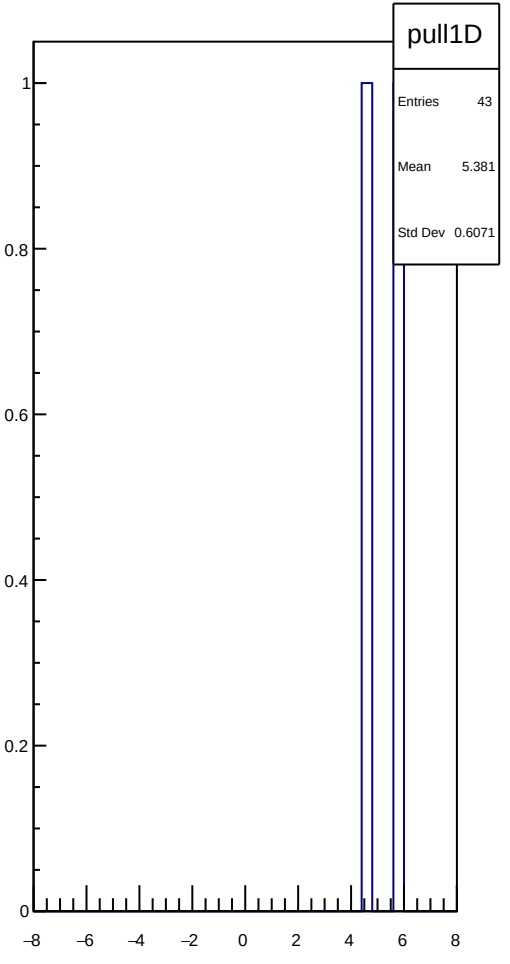

yield_bcm0l02_rms vs run
χ² / ndf 3.545e+04 / 42
p0 0.2759 ± 0.0003022
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

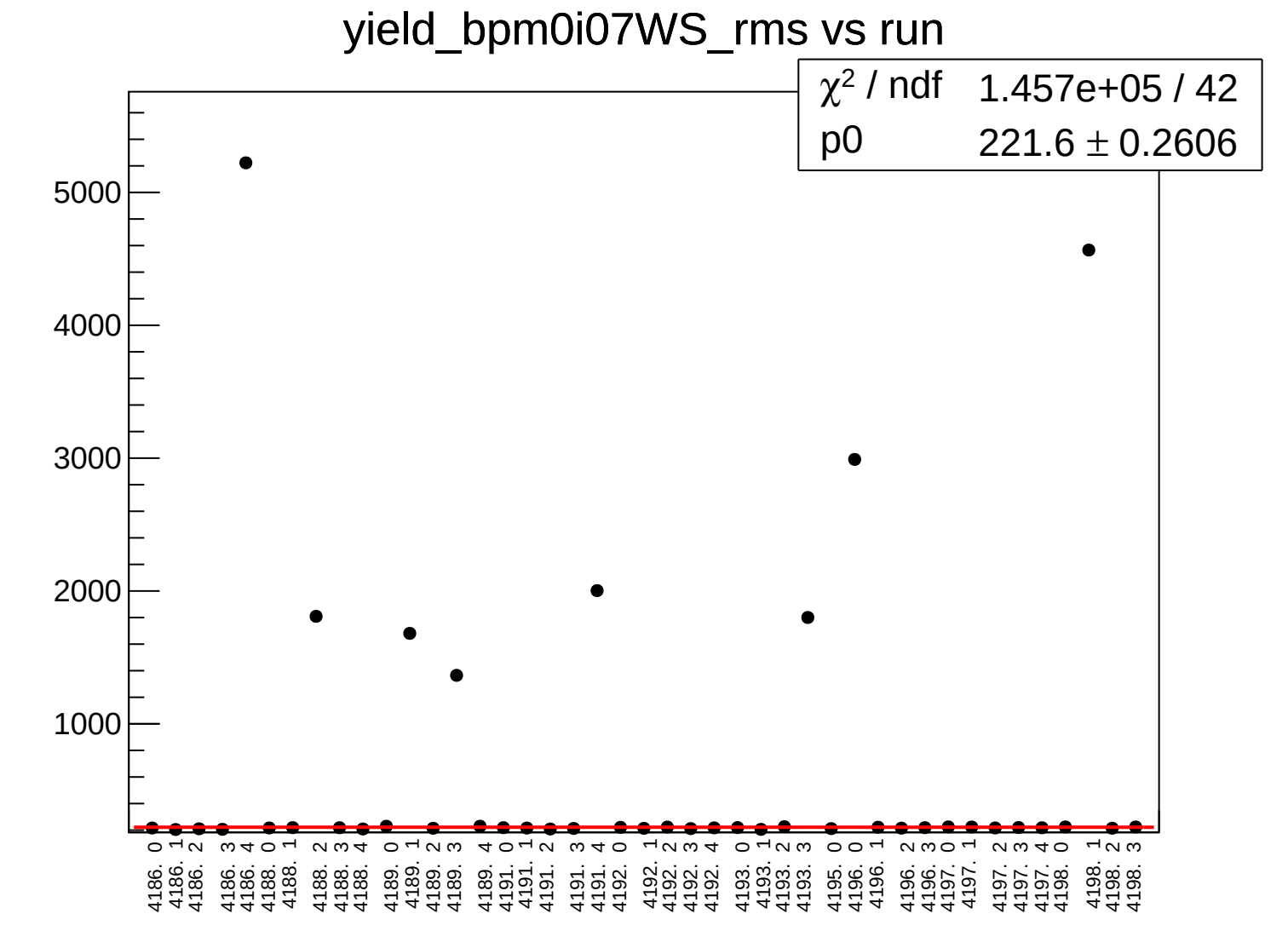

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.096e+09 / 42
p0 1.051e+05 ± 0.2263
115
110
105
100
95
90
85
80
75
70
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
5000
0
−5000
−10000
−15000
−20000
pull
Entries 43
Mean −78.44
Std Dev 95.29

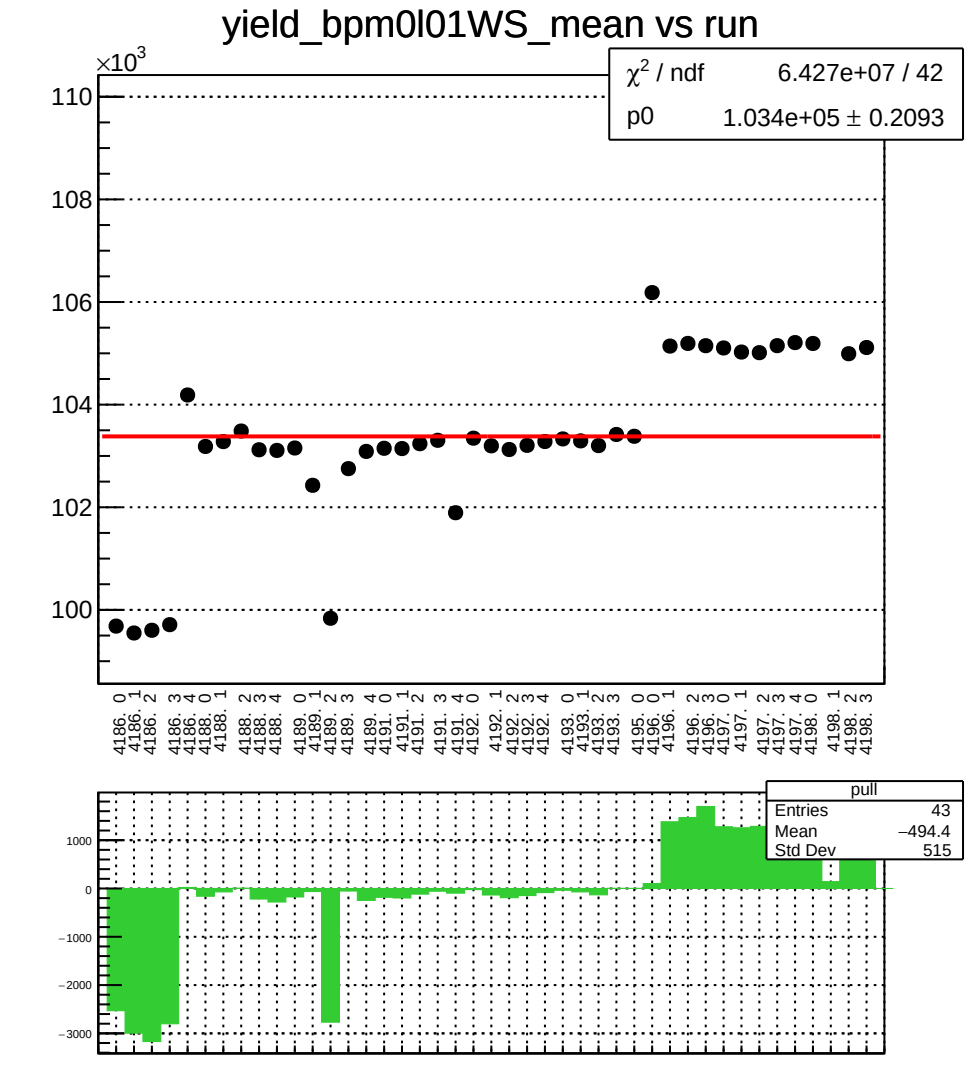

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

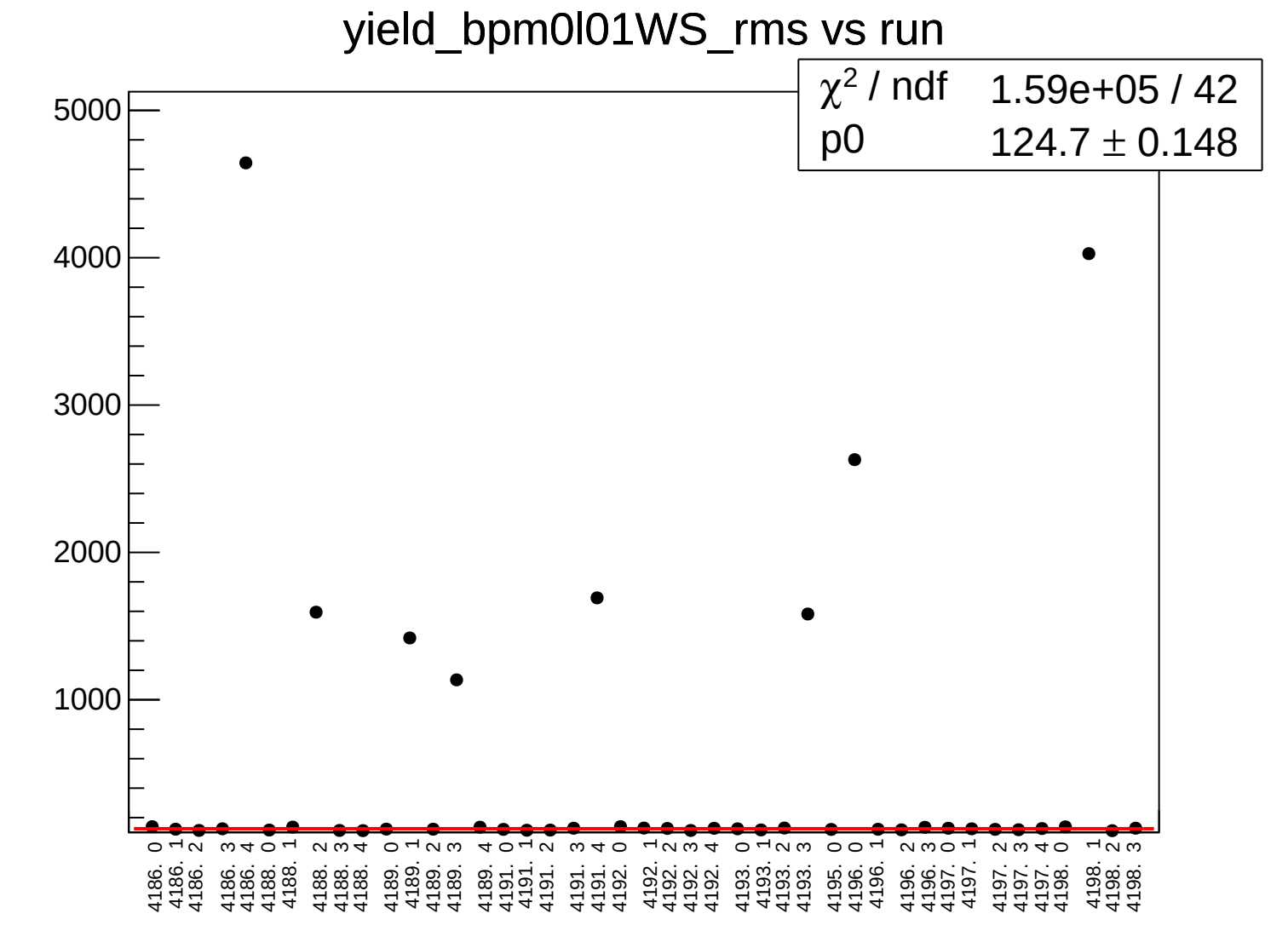

yield_bpm2i01WS_rms vs run
χ² / ndf 1.675e+05 / 42
p0 134 ± 0.1601
18000
16000
14000
12000
10000
8000
6000
4000
2000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

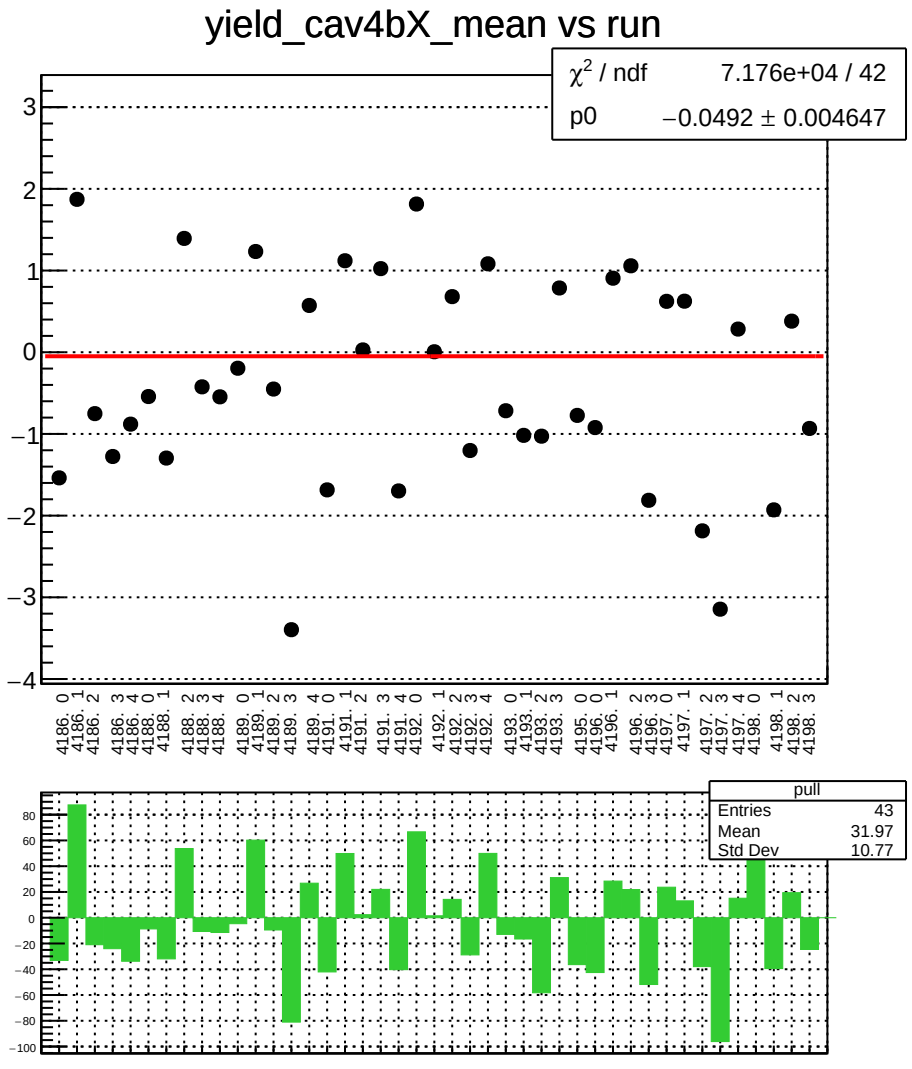

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.698e+07 / 42
p0 1.158e+05 ± 0.3686
122
120
118
116
114
112
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −873.3
Std Dev 893.9
1000
500
0
−500
−1000
−1500
−2000

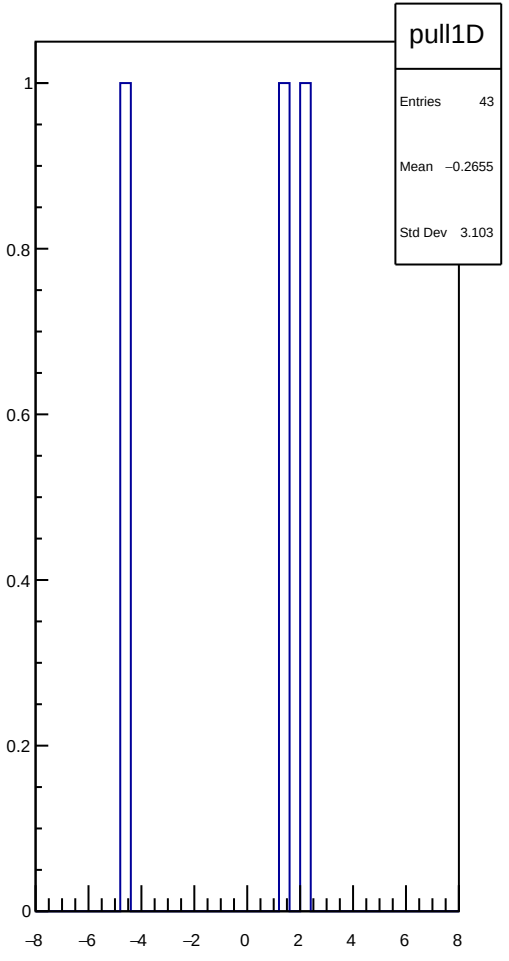

pull1D
Entries 43
Mean 5.381
Std Dev 0.6071
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

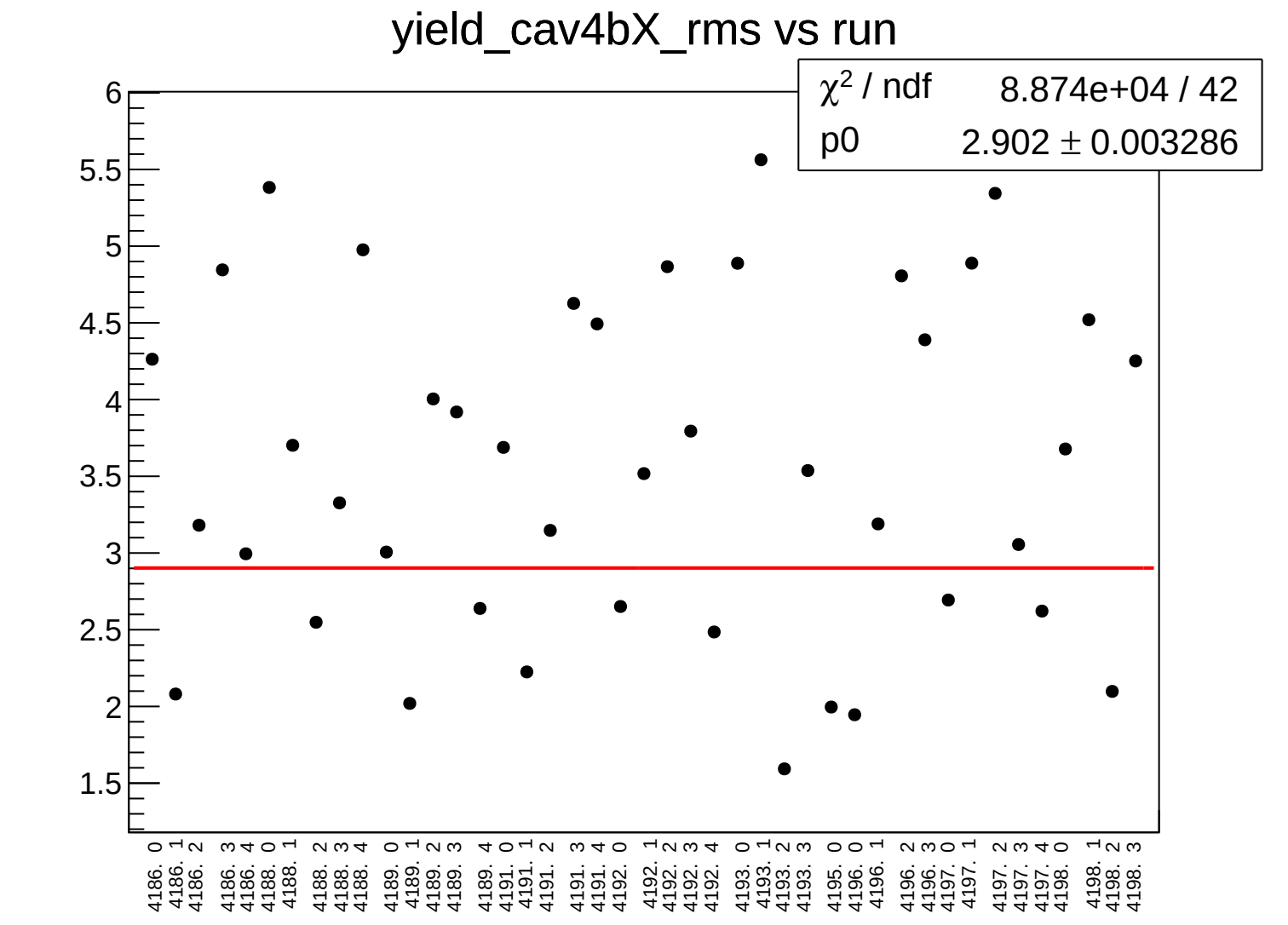

yield_bpm0i07WS_rms vs run
χ² / ndf 1.457e+05 / 42
p0 221.6 ± 0.2606
5000
4000
3000
2000
1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

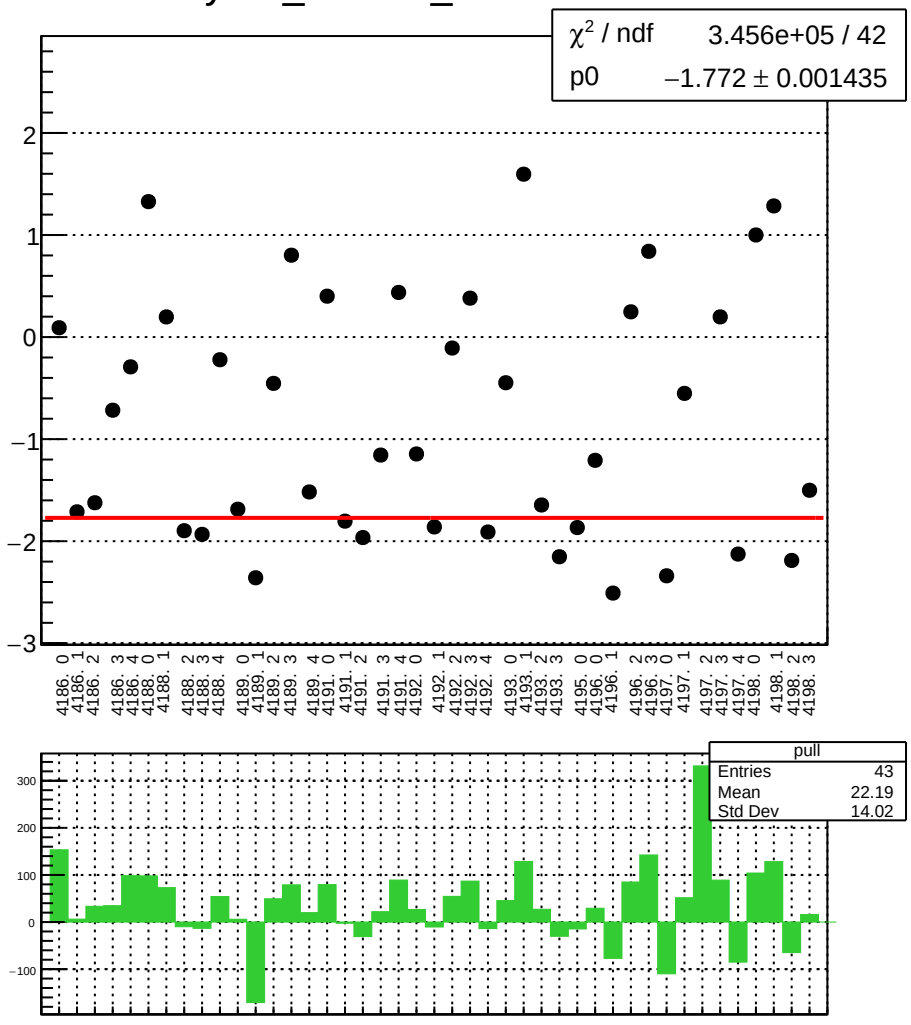

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.427e+07 / 42
p0 1.034e+05 ± 0.2093
110
108
106
104
102
100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −494.4
Std Dev 515
1000
0
−1000
−2000
−3000
pull1D
Entries 43
Mean 3.814
Std Dev 1.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

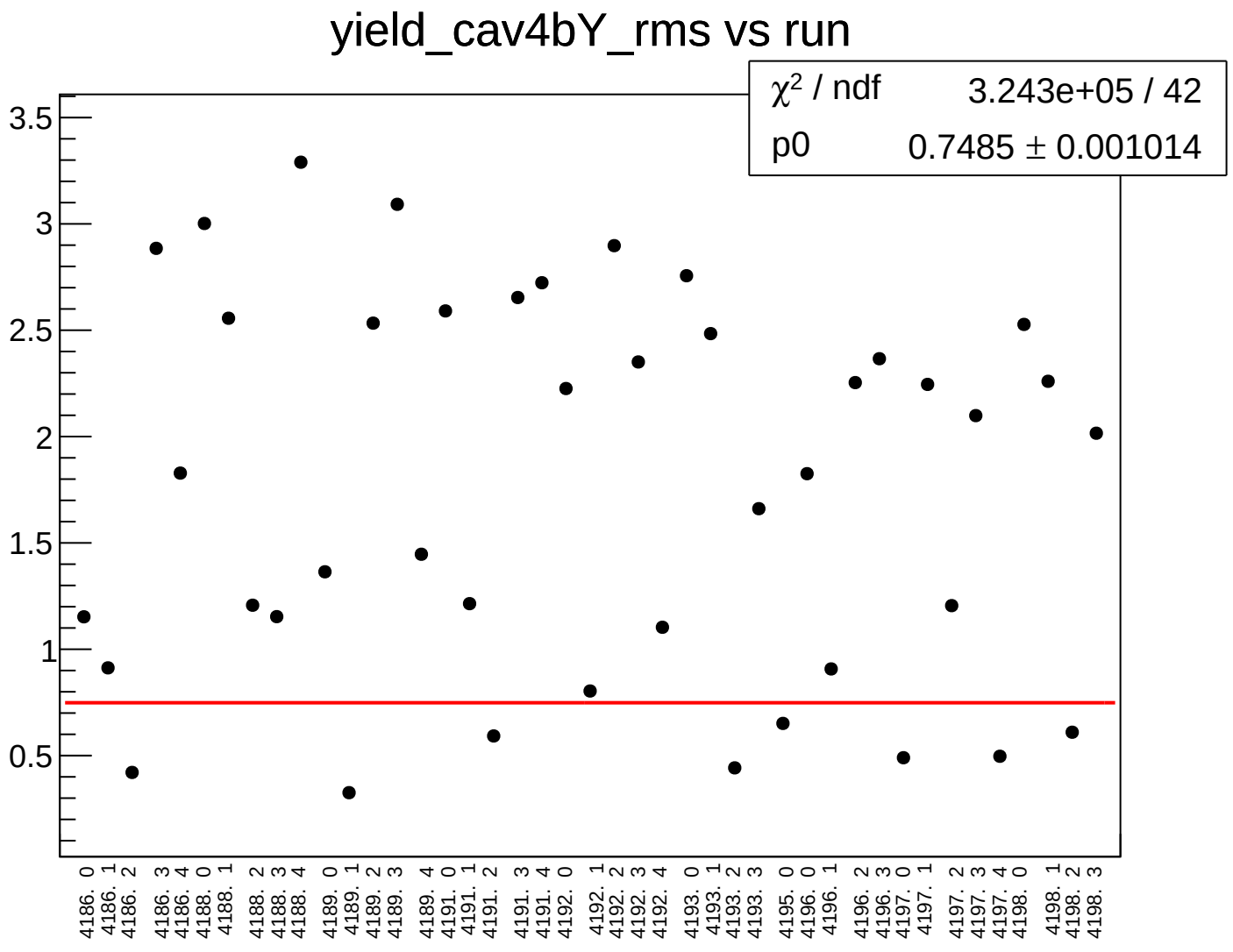

yield_bpm0l01WS_rms vs run
χ² / ndf 1.59e+05 / 42
p0 124.7 ± 0.148
5000
4000
3000
2000
1000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

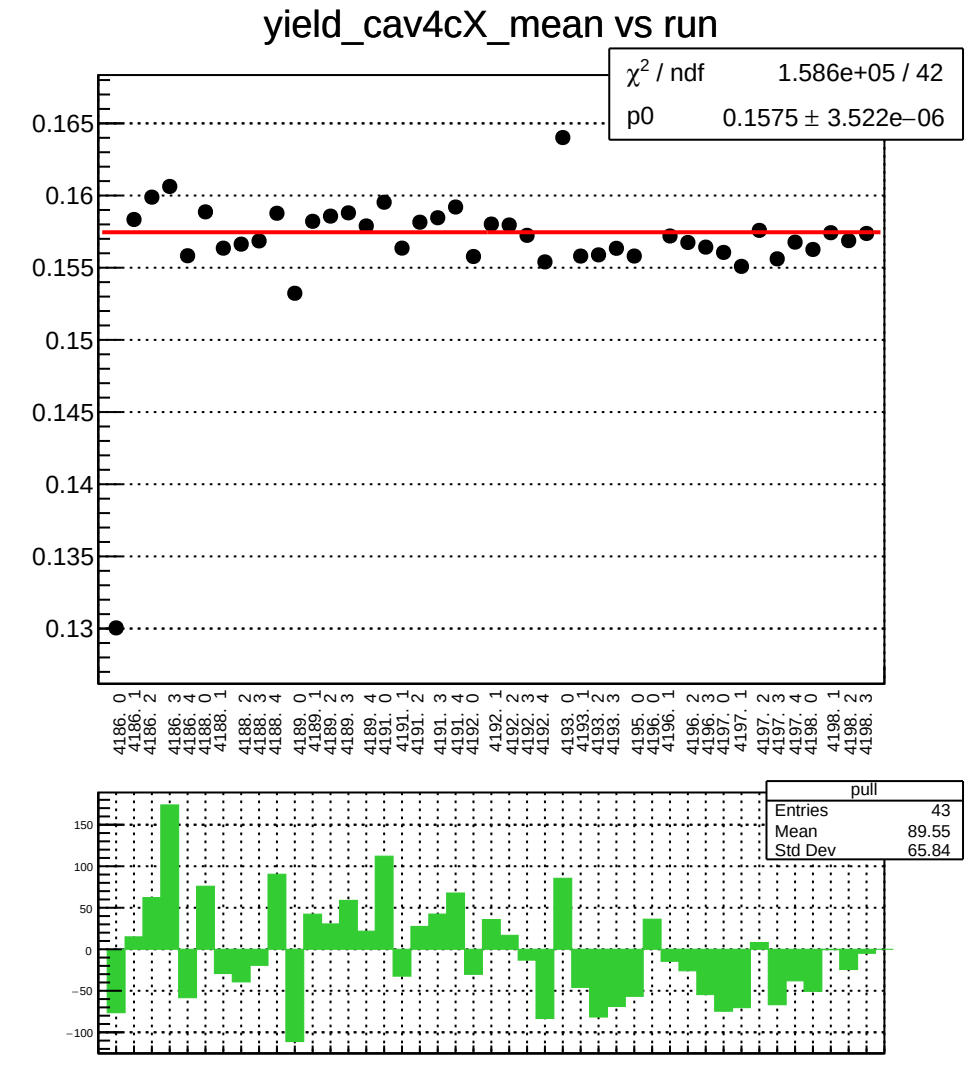

yield_cav4bX_mean vs run
χ² / ndf 7.176e+04 / 42
p0 −0.0492 ± 0.004647
pull
Entries 43
Mean 31.97
Std Dev 10.77

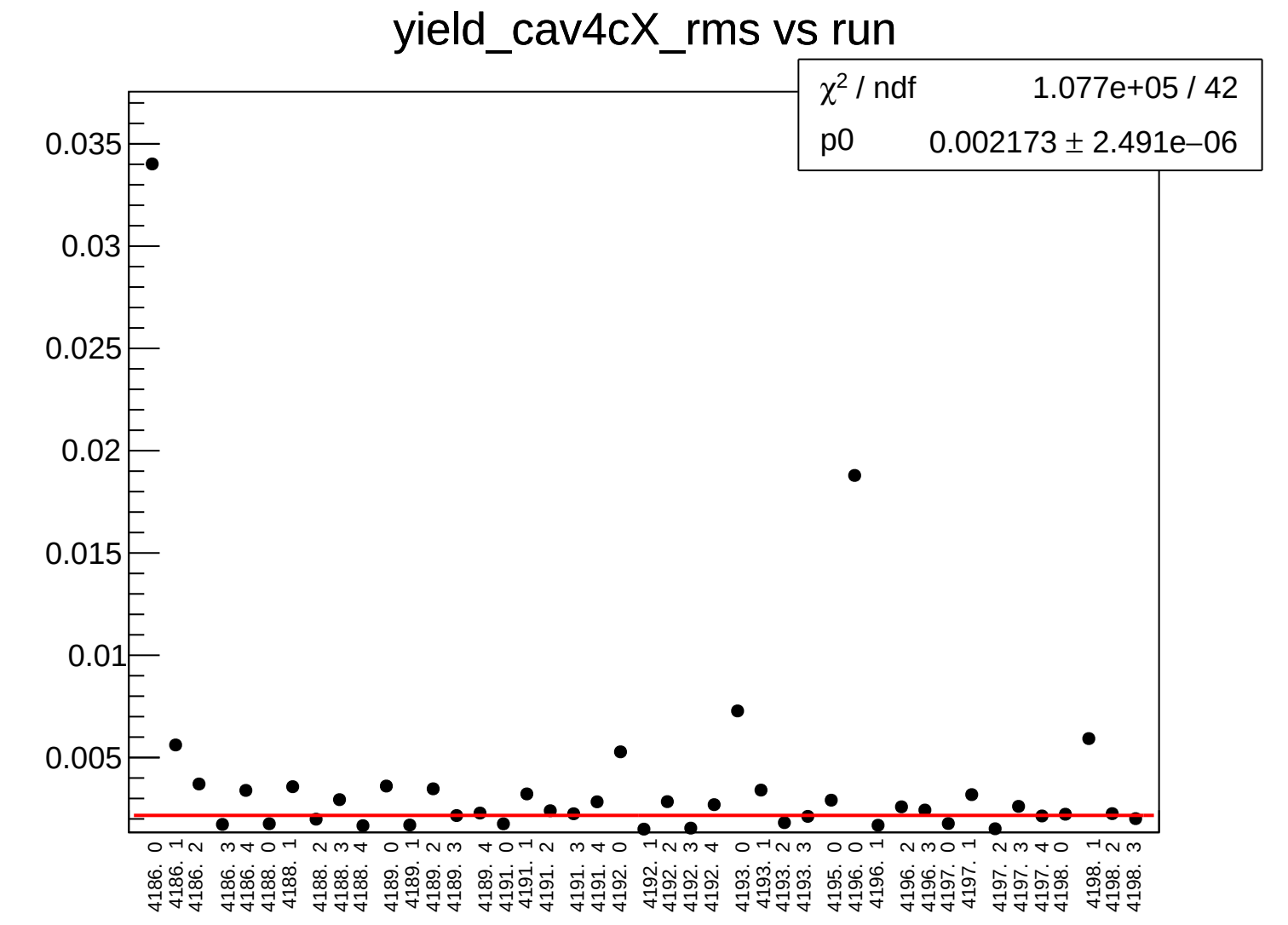

pull1D
Entries 43
Mean −0.2655
Std Dev 3.103

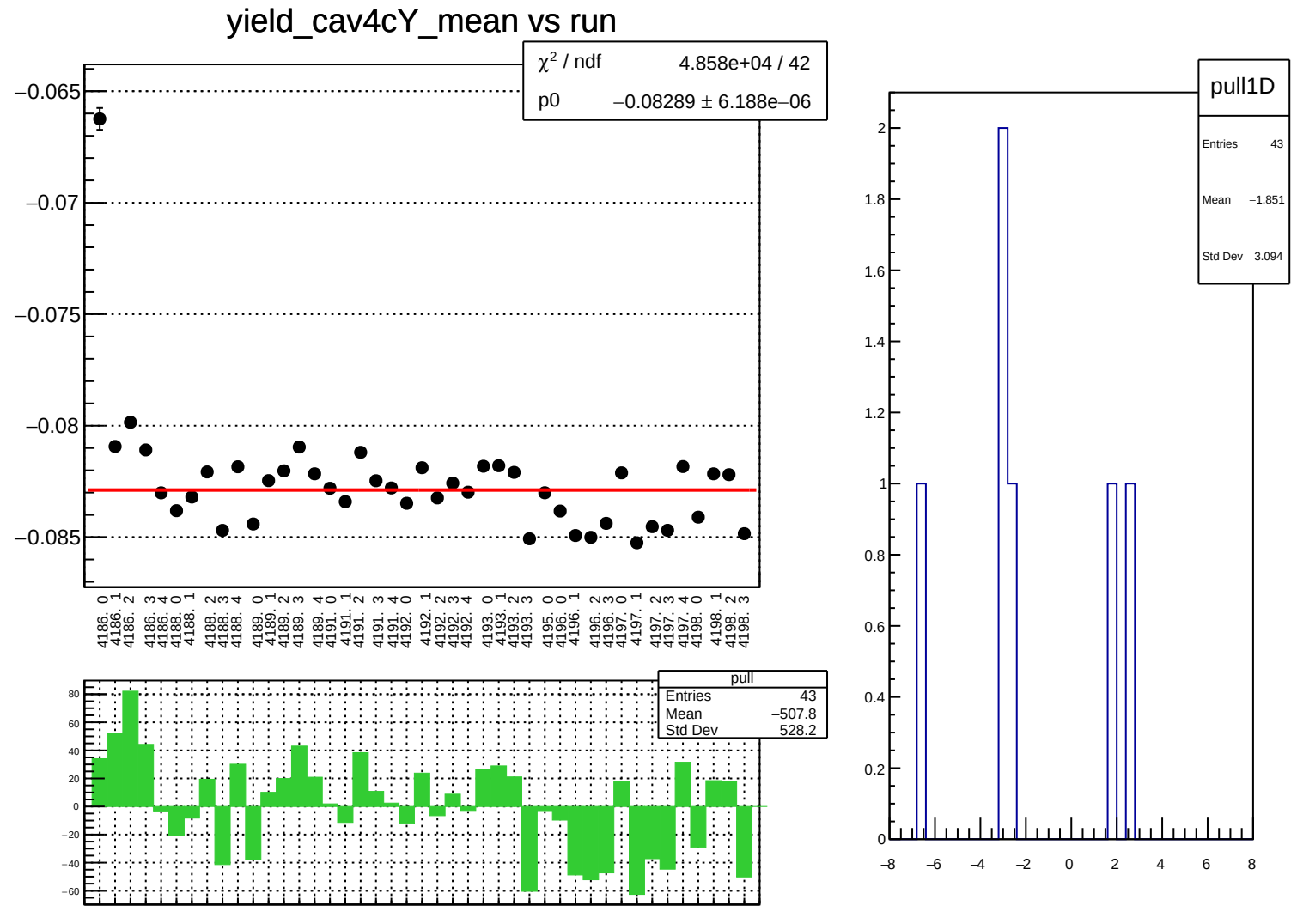

yield_cav4bX_rms vs run
χ² / ndf 8.874e+04 / 42
p0 2.902 ± 0.003286
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

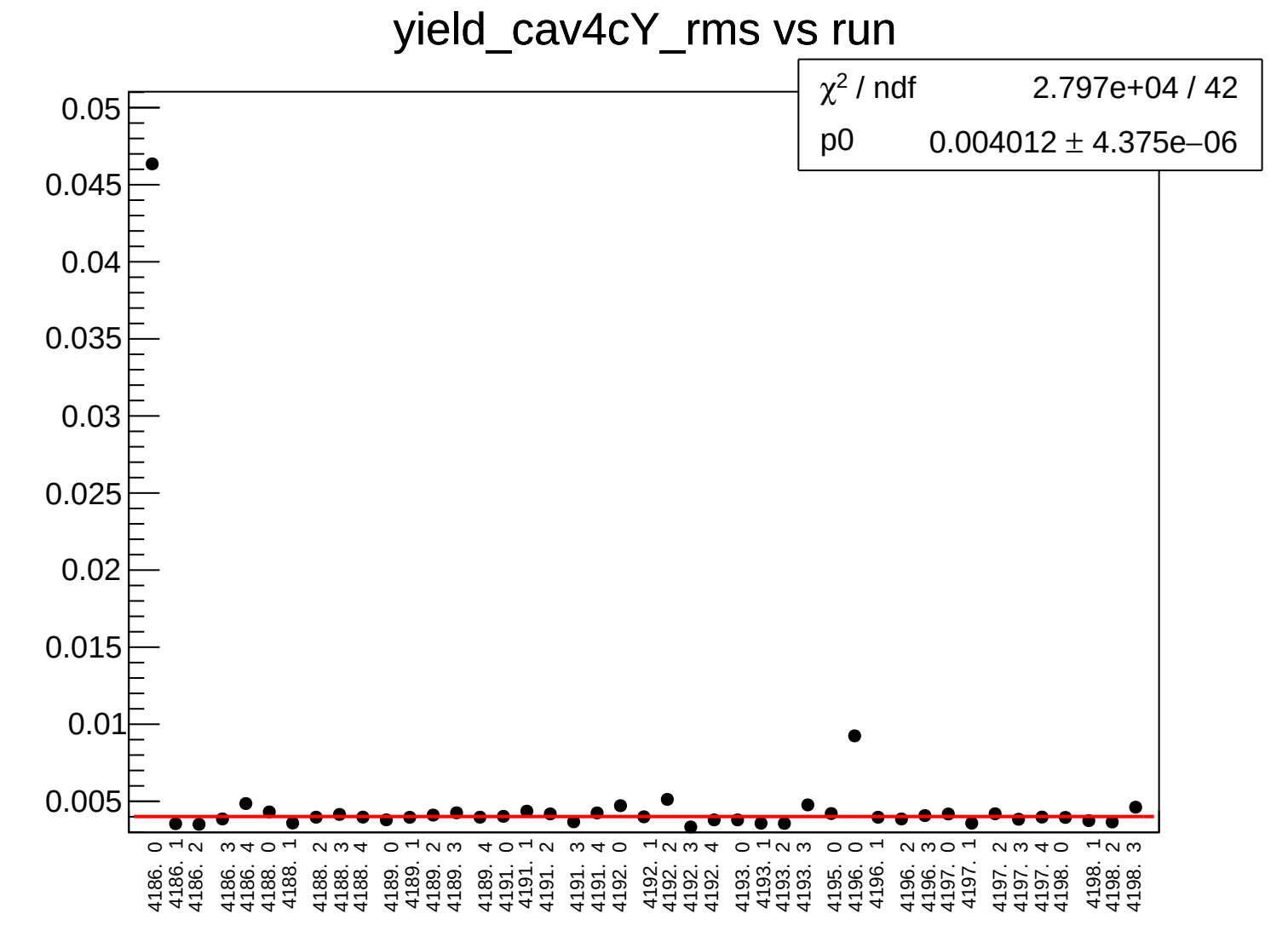

yield_cav4bY_mean vs run
χ² / ndf 3.456e+05 / 42
p0 −1.772 ± 0.001435
pull
Entries 43
Mean 22.19
Std Dev 14.02
pull1D
Entries 43
Mean 3.195
Std Dev 4.028

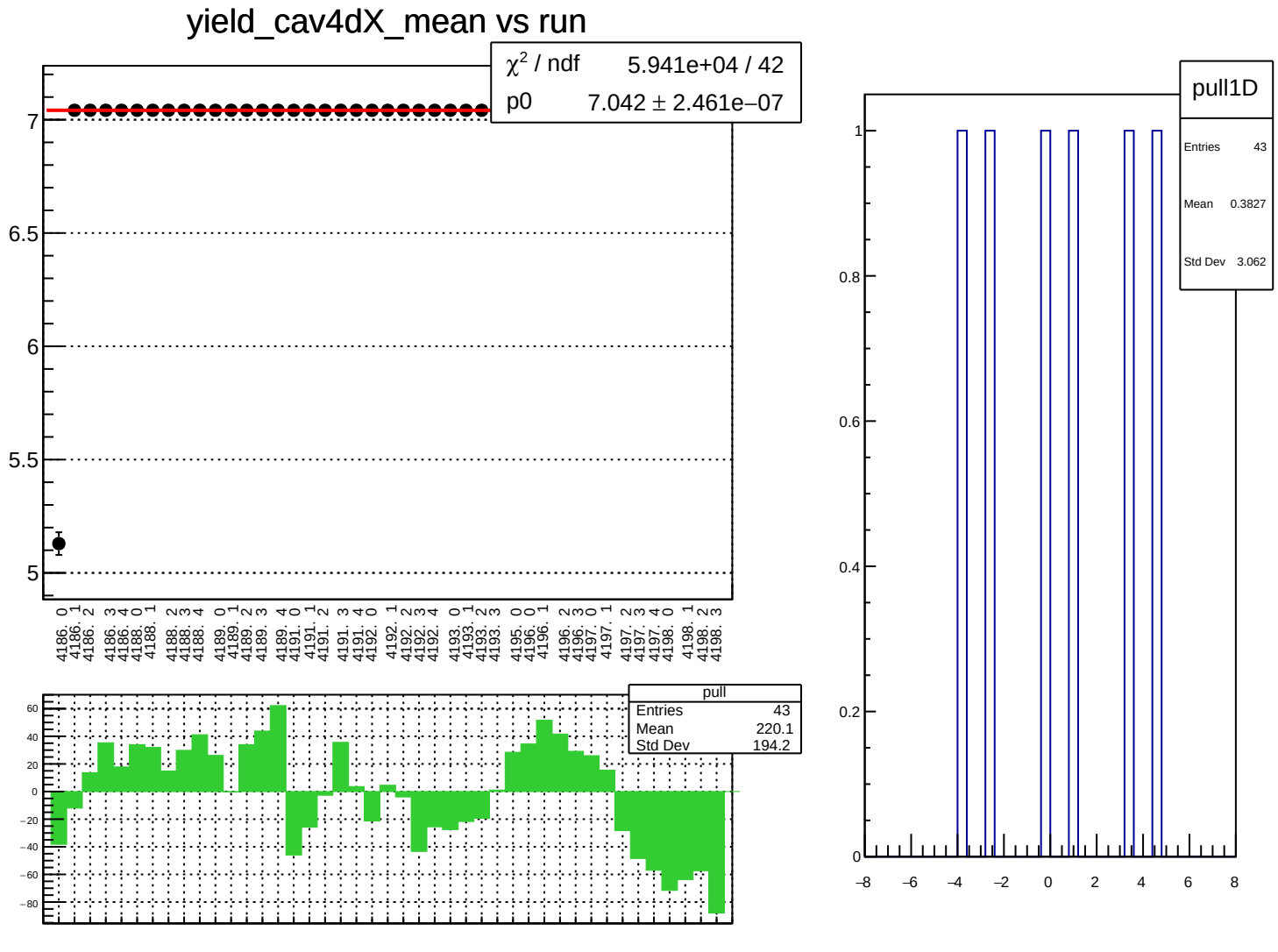

yield_cav4bY_rms vs run
χ² / ndf 3.243e+05 / 42
p0 0.7485 ± 0.001014
3.5
3
2.5
2
1.5
1
0.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

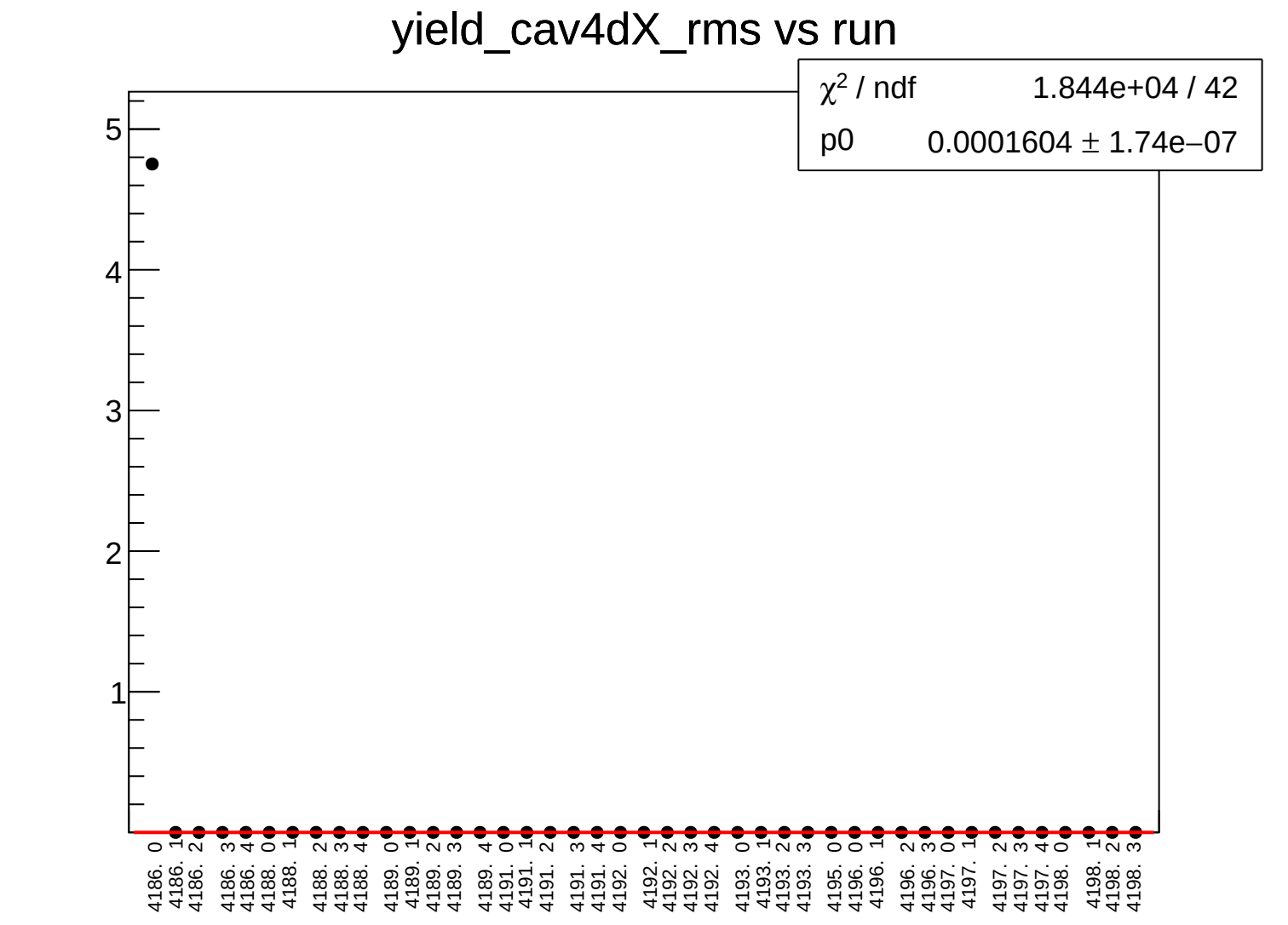

yield_cav4cX_mean vs run
χ² / ndf 1.586e+05 / 42
p0 0.1575 ± 3.522e−06
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 89.55
Std Dev 65.84
150
100
50
0
−50
−100
pull1D
Entries 43
Mean −2.679
Std Dev 2.179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

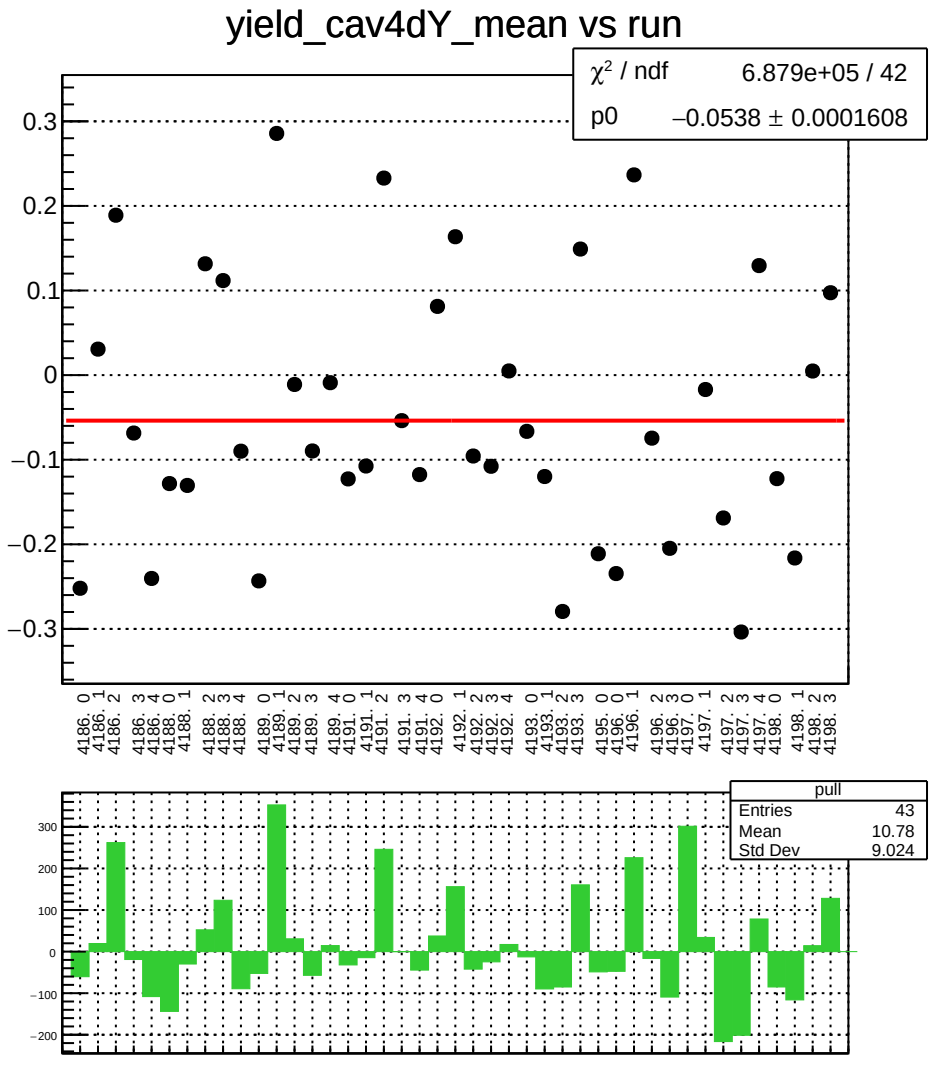

yield_cav4cX_rms vs run
χ² / ndf 1.077e+05 / 42
p0 0.002173 ± 2.491e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

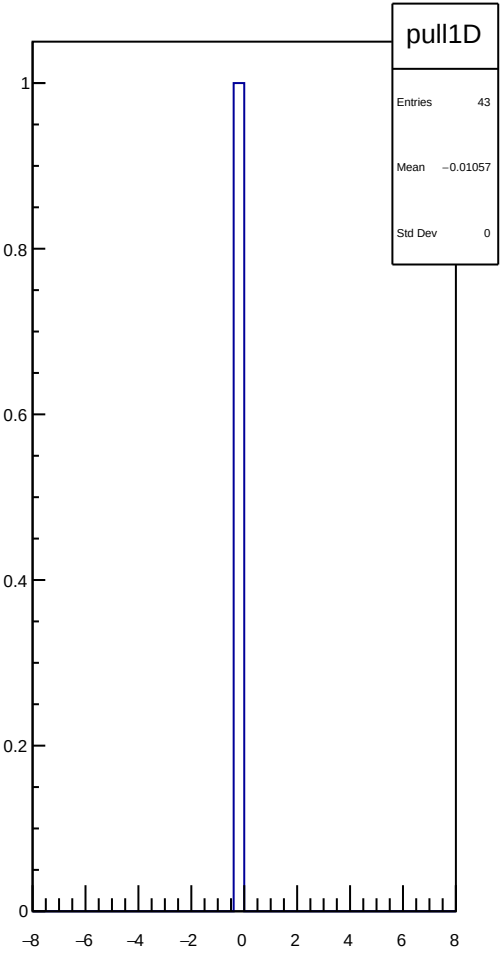

yield_cav4cY_mean vs run
χ² / ndf 4.858e+04 / 42
p0 −0.08289 ± 6.188e−06
−0.065
−0.07
−0.075
−0.08
−0.085
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −507.8
Std Dev 528.2
80
60
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean −1.851
Std Dev 3.094
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

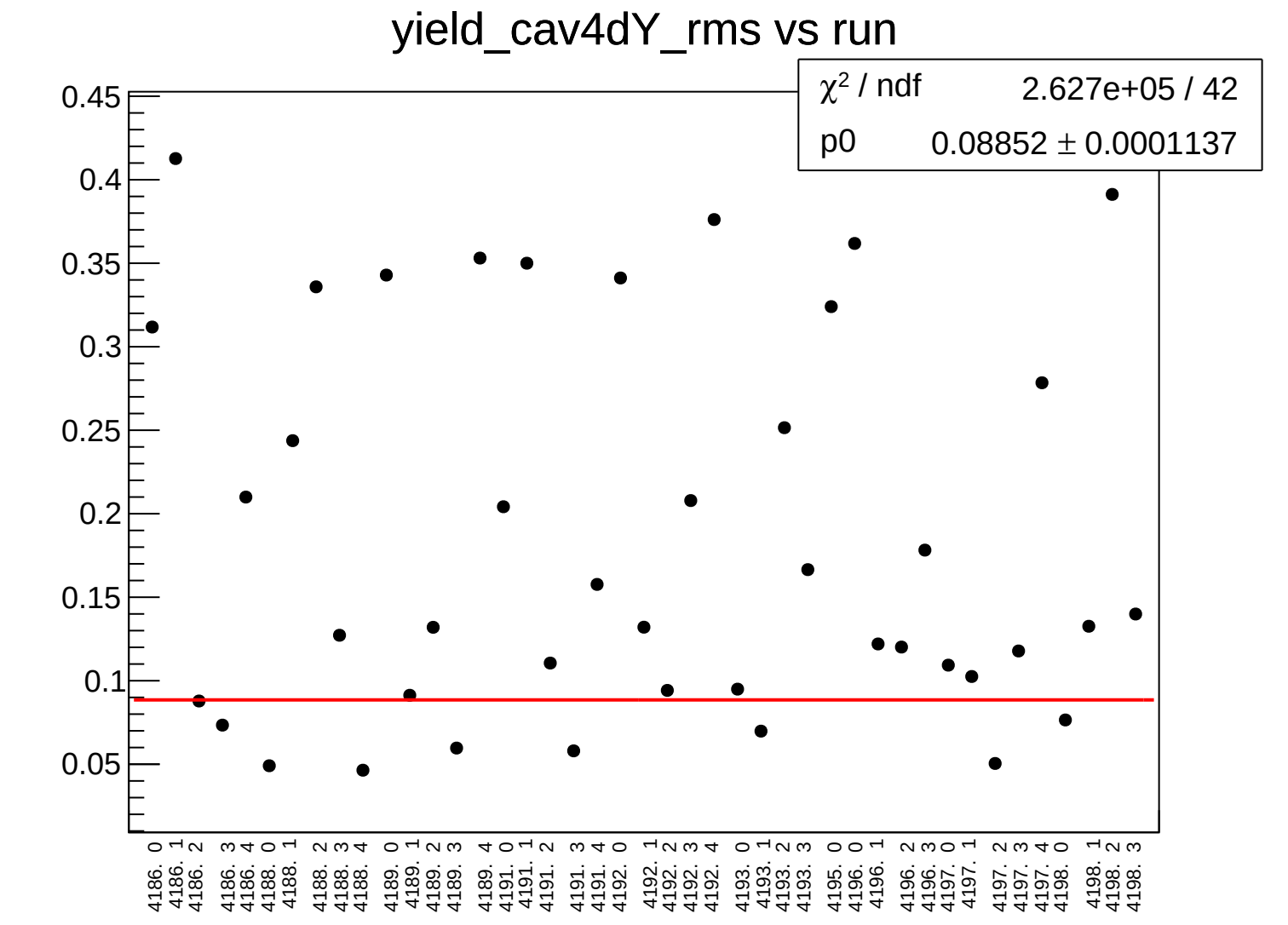

yield_cav4cY_rms vs run
χ² / ndf 2.797e+04 / 42
p0 0.004012 ± 4.375e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

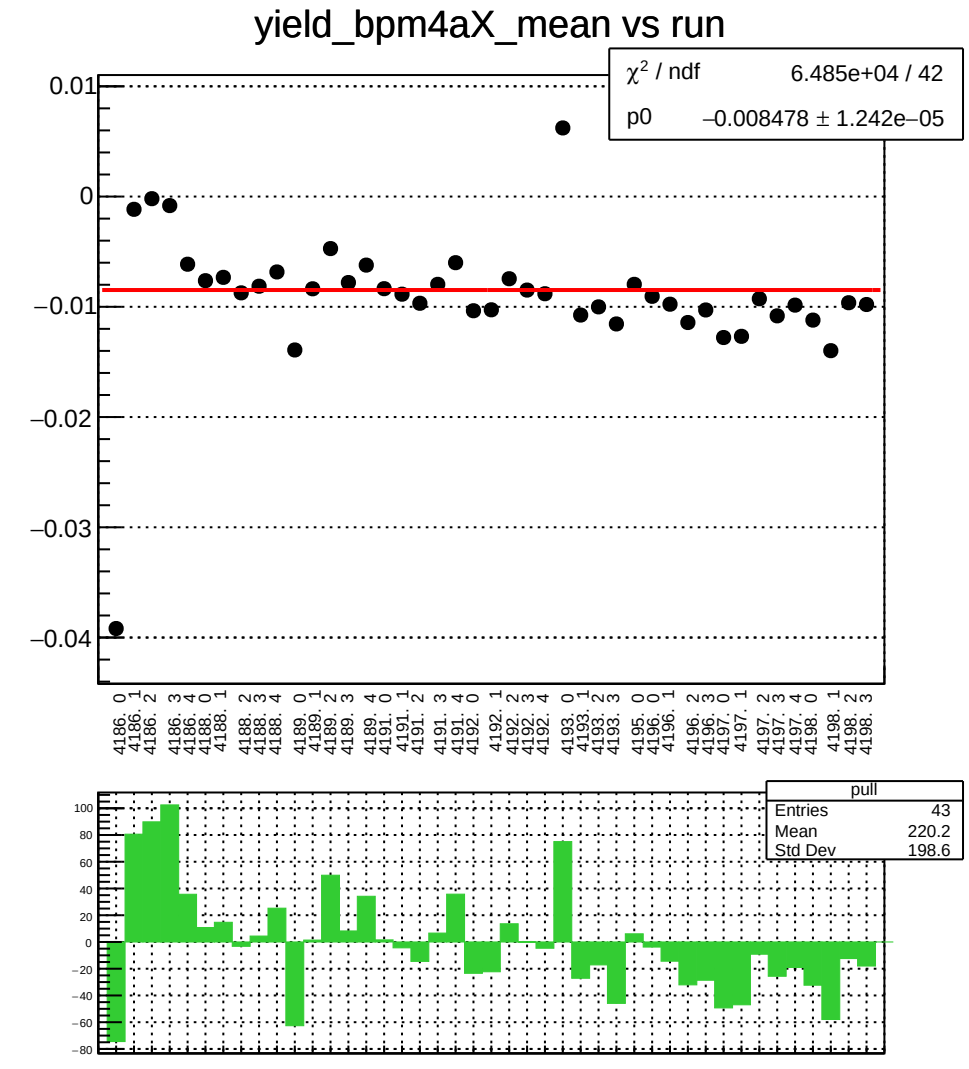

yield_cav4dX_mean vs run
χ² / ndf 5.941e+04 / 42
p0 7.042 ± 2.461e−07
7
6.5
6
5.5
5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 220.1
Std Dev 194.2
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean 0.3827
Std Dev 3.062
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

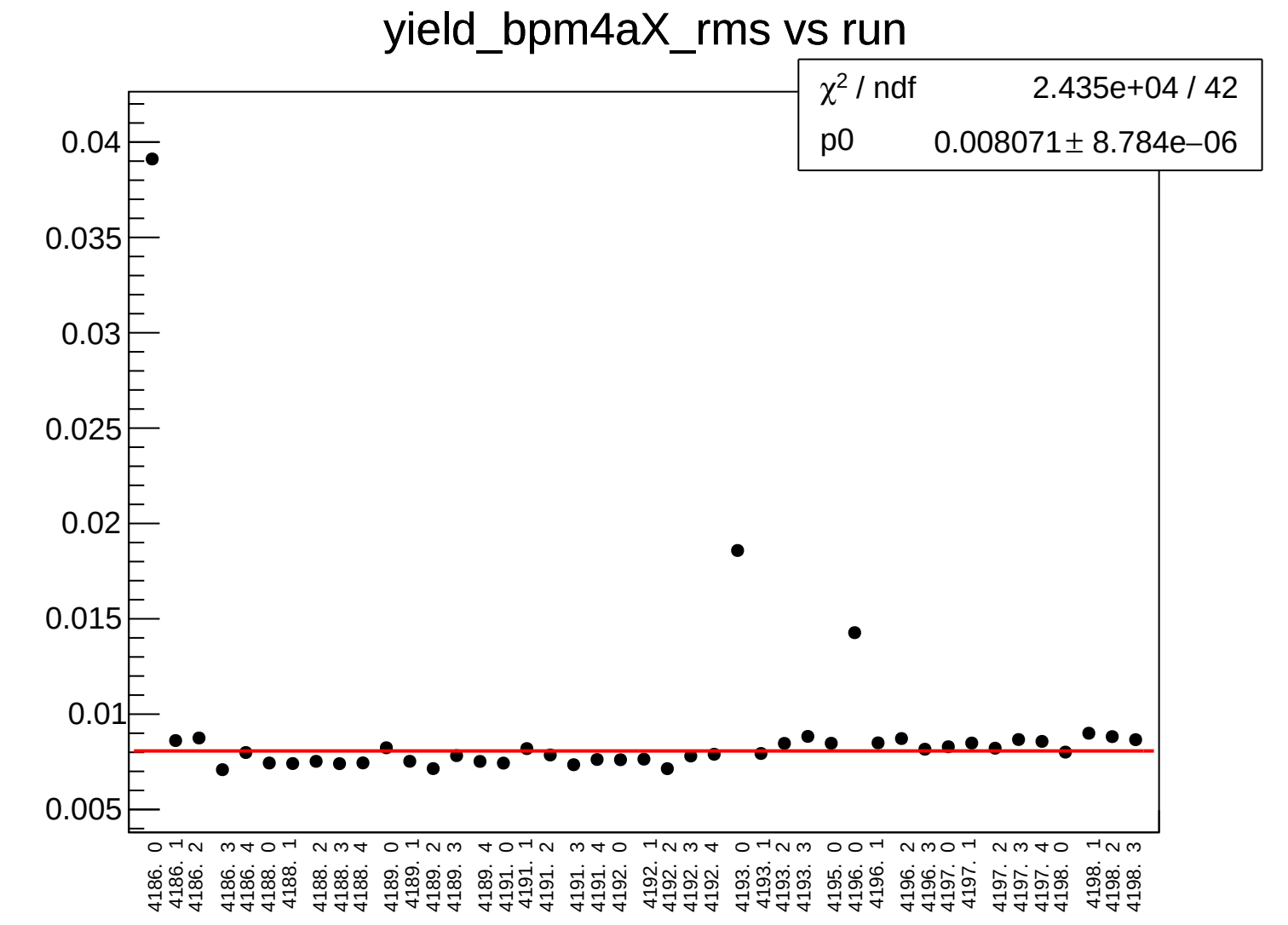

yield_cav4dX_rms vs run
χ² / ndf 1.844e+04 / 42
p0 0.0001604 ± 1.74e−07
5
4
3
2
1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

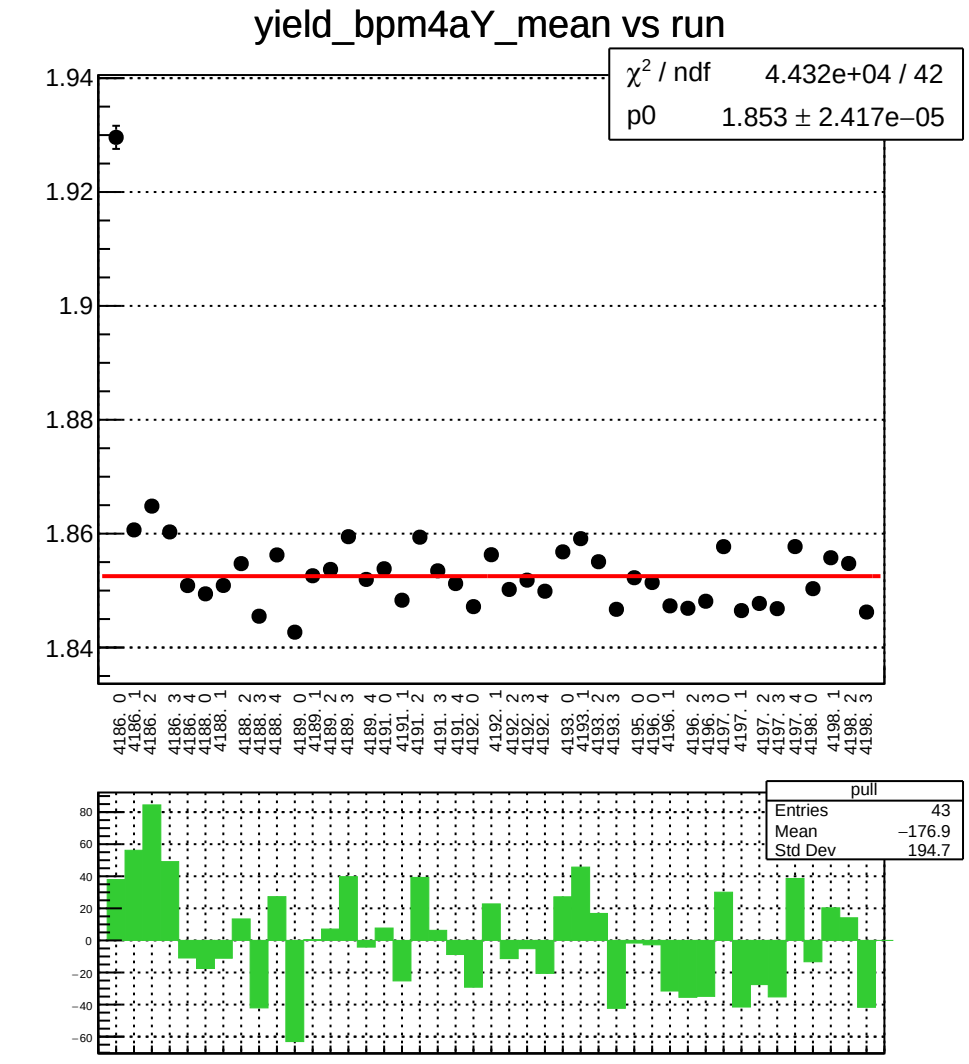

yield_cav4dY_mean vs run
χ² / ndf 6.879e+05 / 42
p0 −0.0538 ± 0.0001608
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 10.78
Std Dev 9.024
300
200
100
0
−100
−200

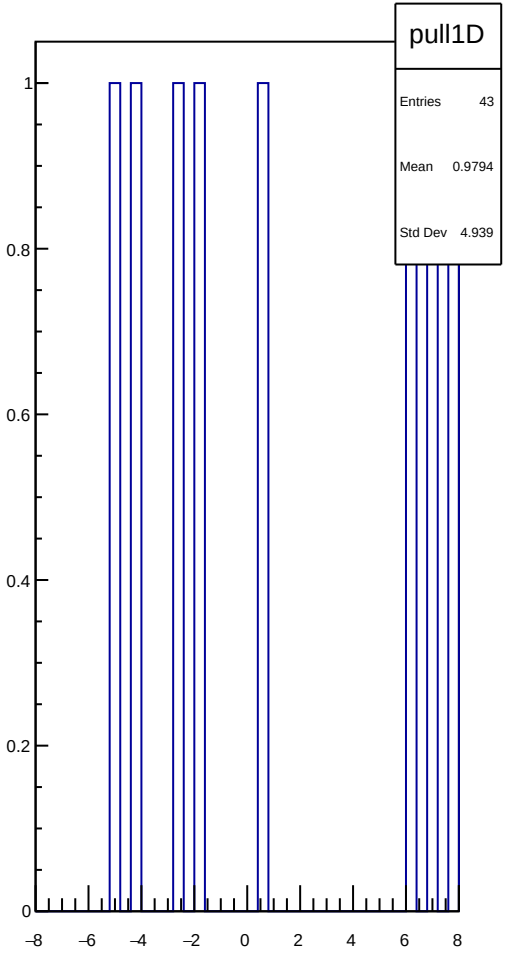

pull1D
Entries 43
Mean −0.01057
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

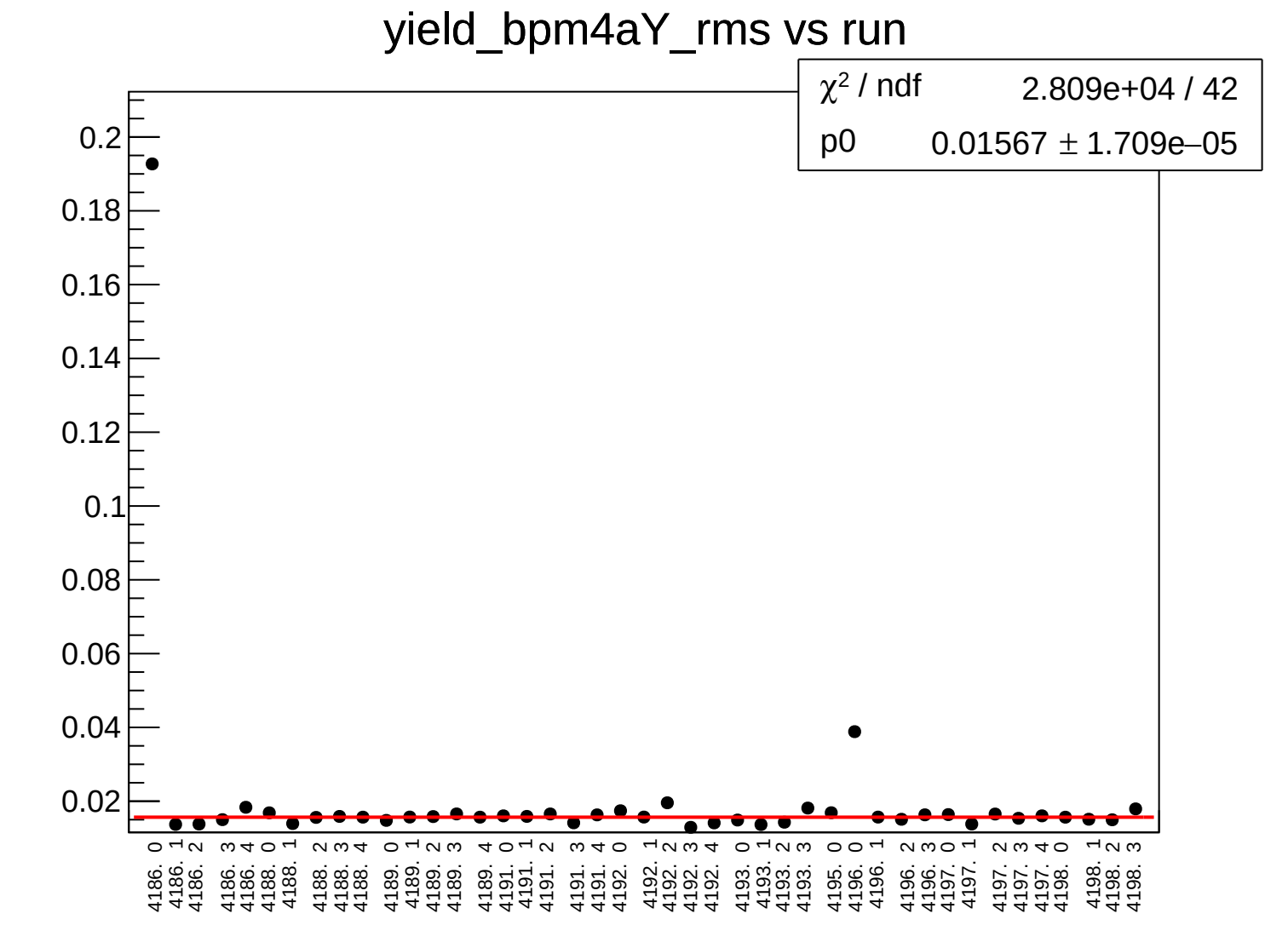

yield_cav4dY_rms vs run
χ² / ndf 2.627e+05 / 42
p0 0.08852 ± 0.0001137
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

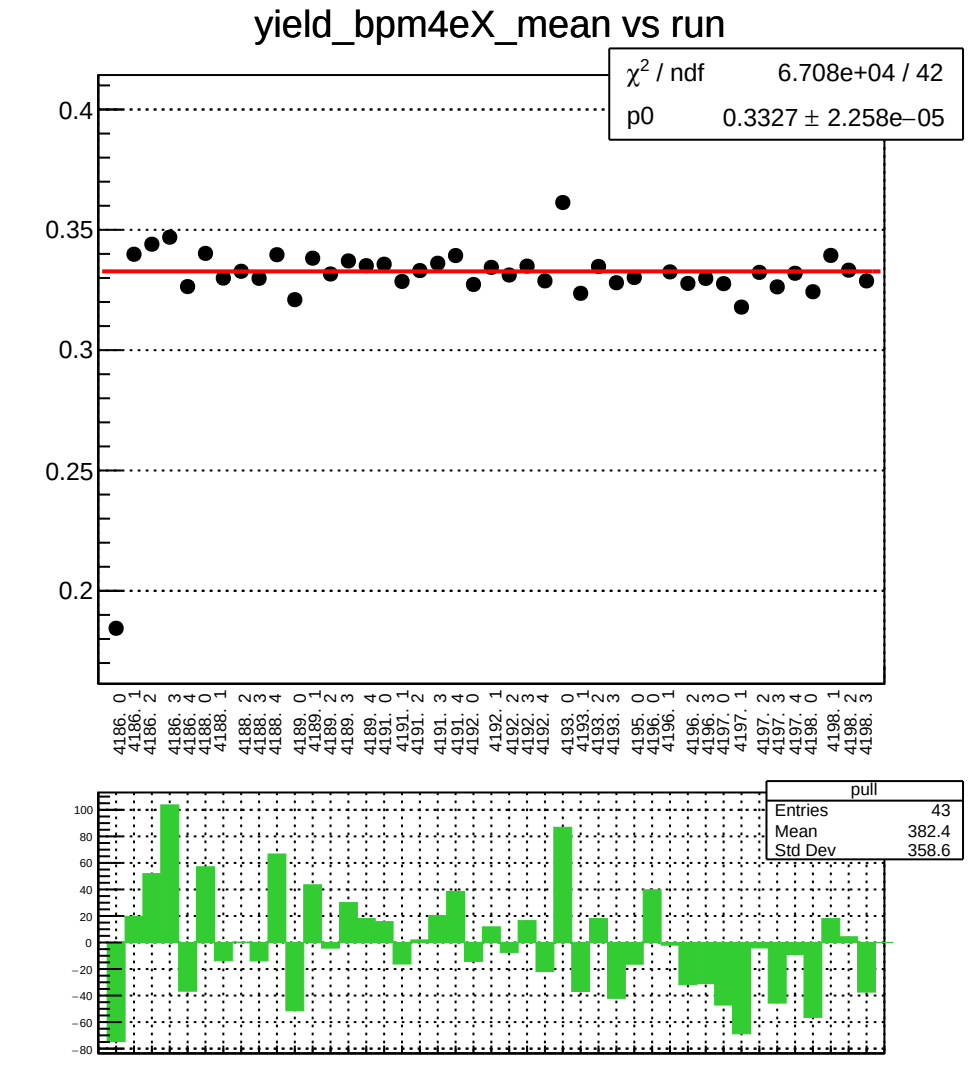

yield_bpm4aX_mean vs run
χ² / ndf 6.485e+04 / 42
p0 −0.008478 ± 1.242e−05
0.01
0
−0.01
−0.02
−0.03
−0.04
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 220.2
Std Dev 198.6
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean 0.3987
Std Dev 4.114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

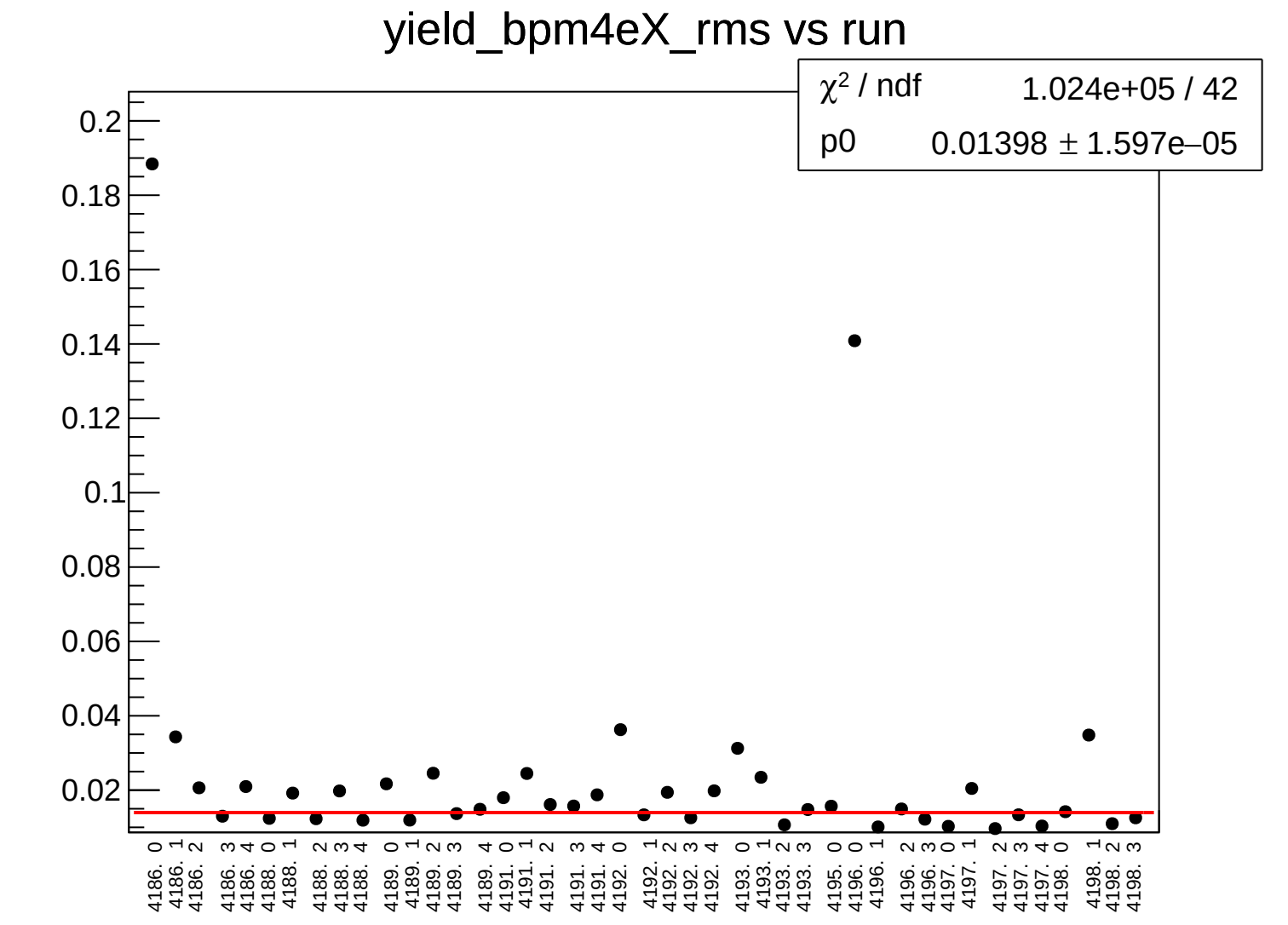

yield_bpm4aX_rms vs run
χ² / ndf 2.435e+04 / 42
p0 0.008071 ± 8.784e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

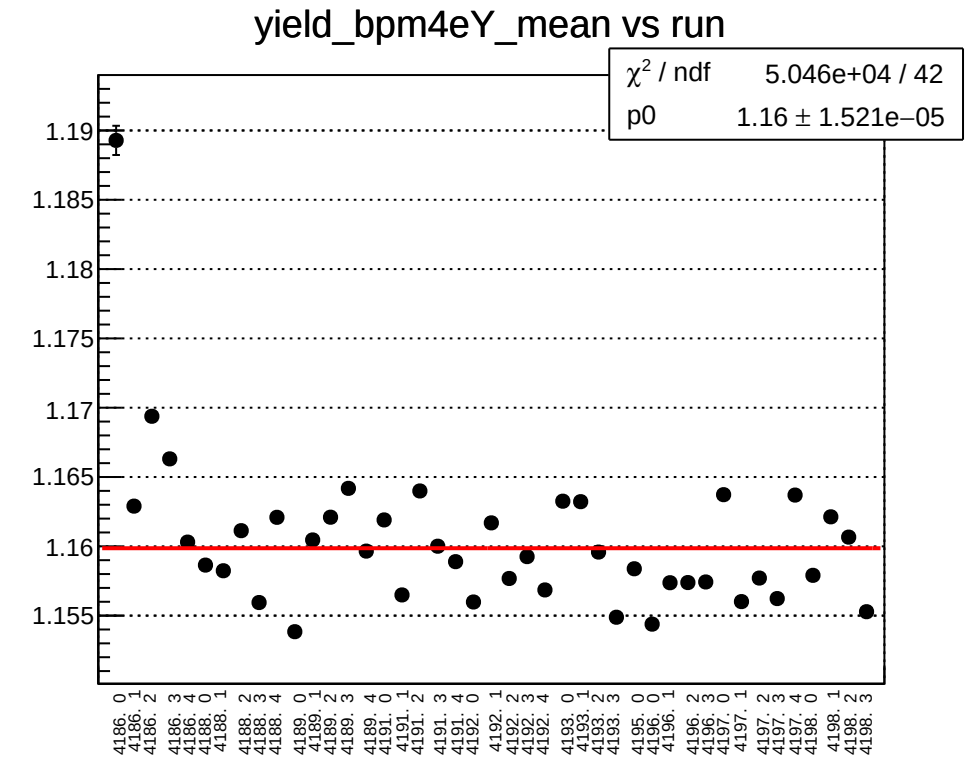

yield_bpm4aY_mean vs run
χ² / ndf 4.432e+04 / 42
p0 1.853 ± 2.417e−05
1.94
1.92
1.9
1.88
1.86
1.84
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −176.9
Std Dev 194.7
80
60
40
20
0
−20
−40
−60

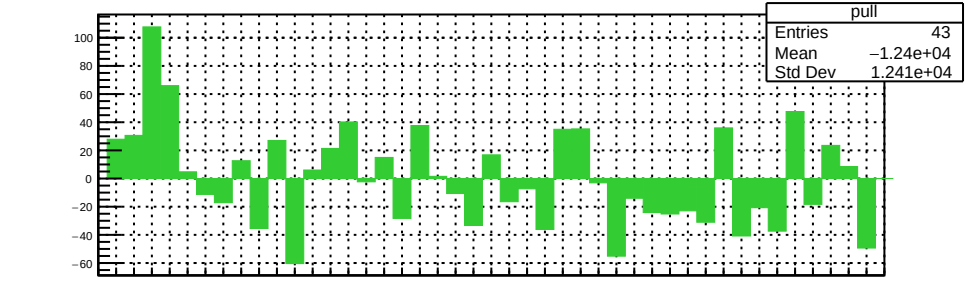

pull1D
Entries 43
Mean 0.9794
Std Dev 4.939
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

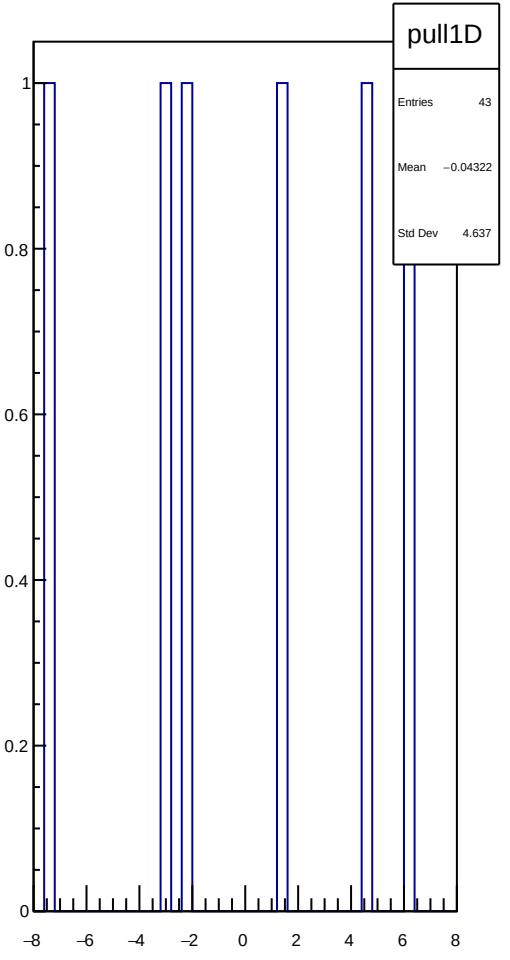

yield_bpm4aY_rms vs run
χ² / ndf 2.809e+04 / 42
p0 0.01567 ± 1.709e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

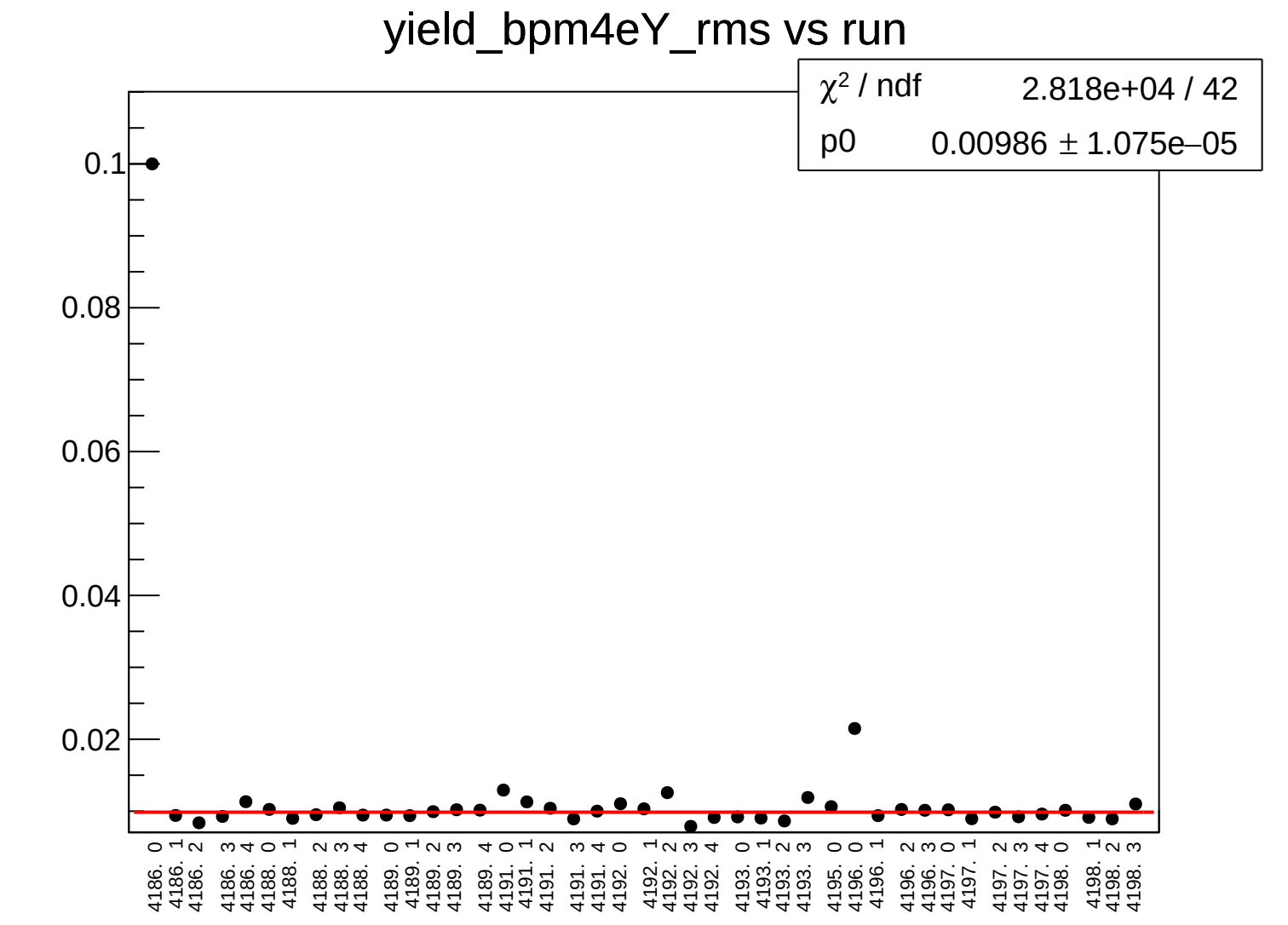

yield_bpm4eX_mean vs run
χ² / ndf 6.708e+04 / 42
p0 0.3327 ± 2.258e−05
0.4
0.35
0.3
0.25
0.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 382.4
Std Dev 358.6
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean −1.596
Std Dev 3.747
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

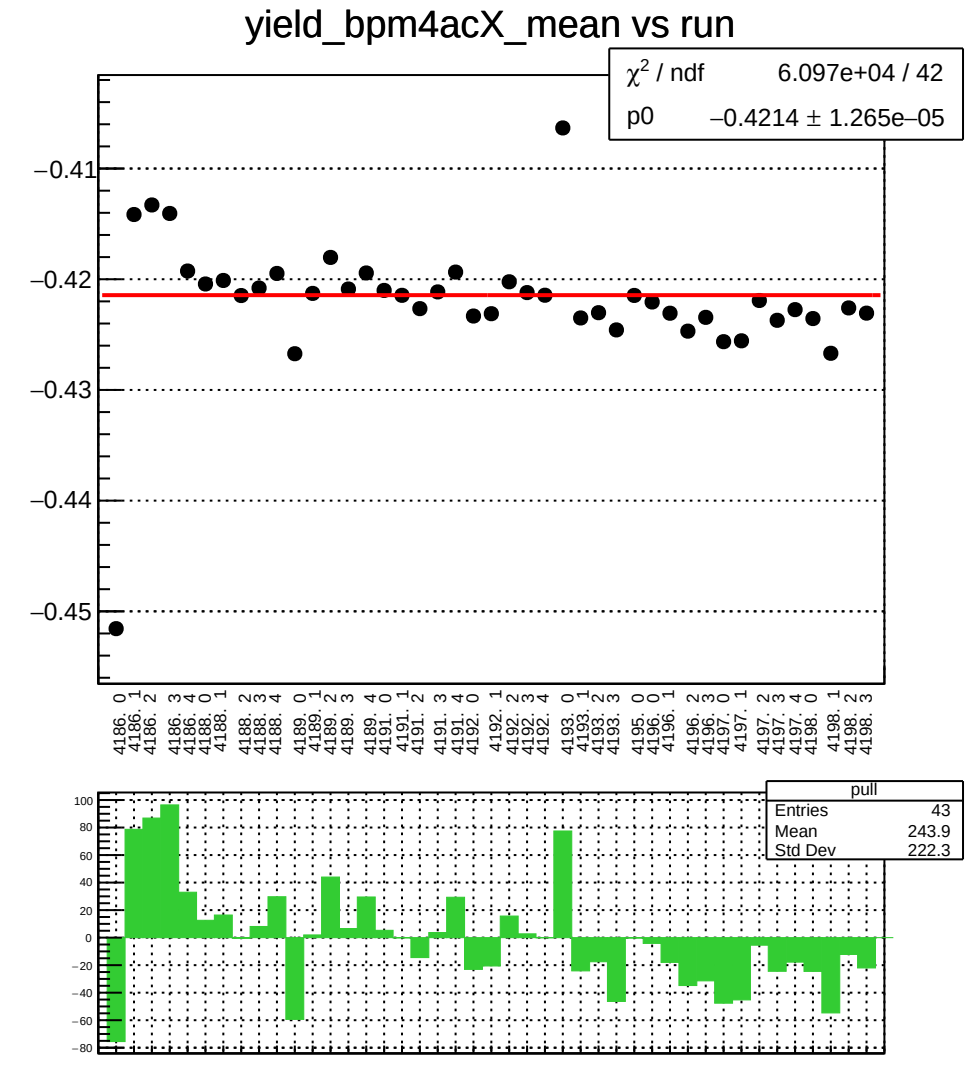

yield_bpm4eX_rms vs run
χ² / ndf 1.024e+05 / 42
p0 0.01398 ± 1.597e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

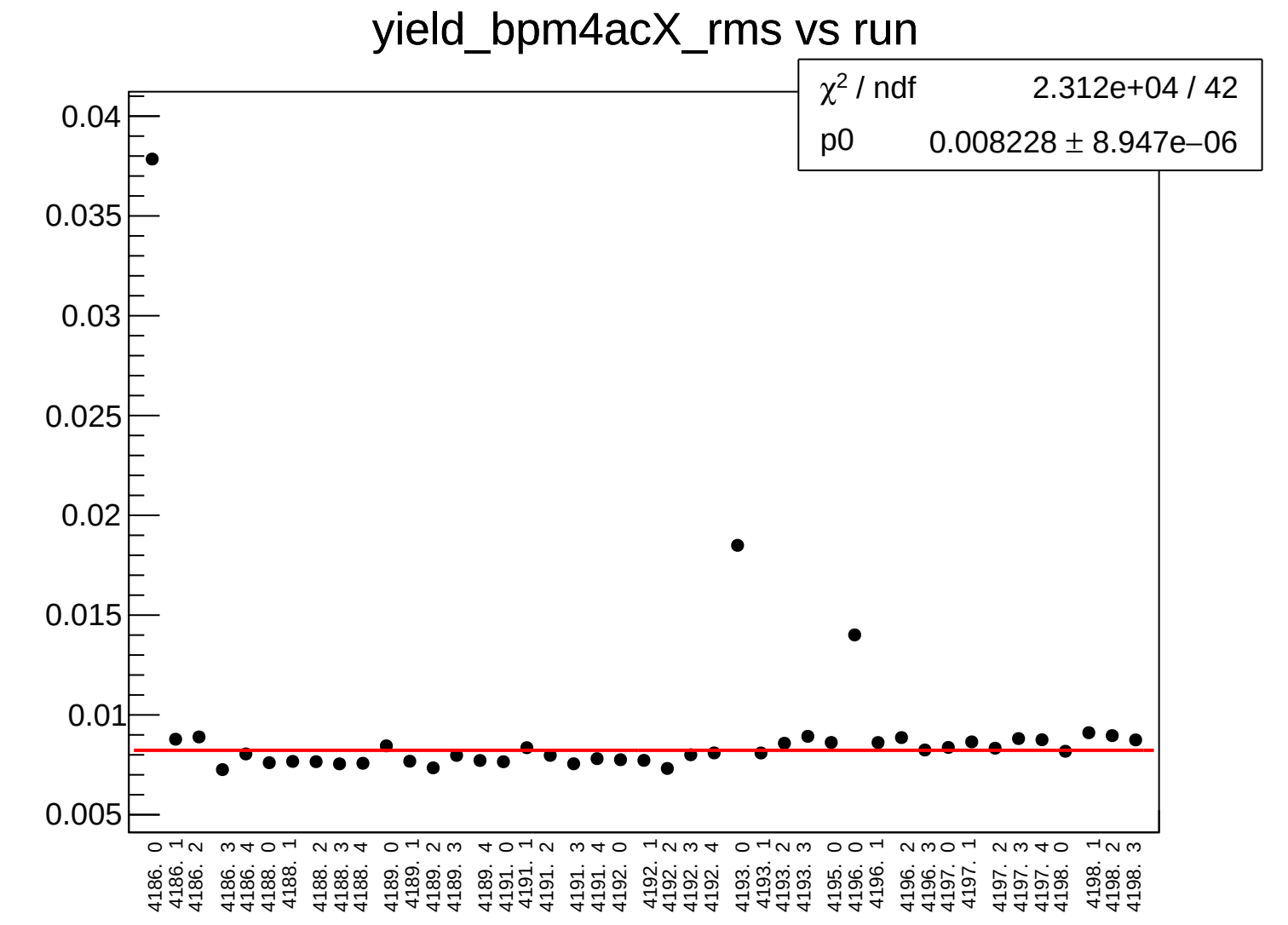

yield_bpm4eY_mean vs run
χ² / ndf 5.046e+04 / 42
p0 1.16 ± 1.521e−05
1.19
1.185
1.18
1.175
1.17
1.165
1.16
1.155
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

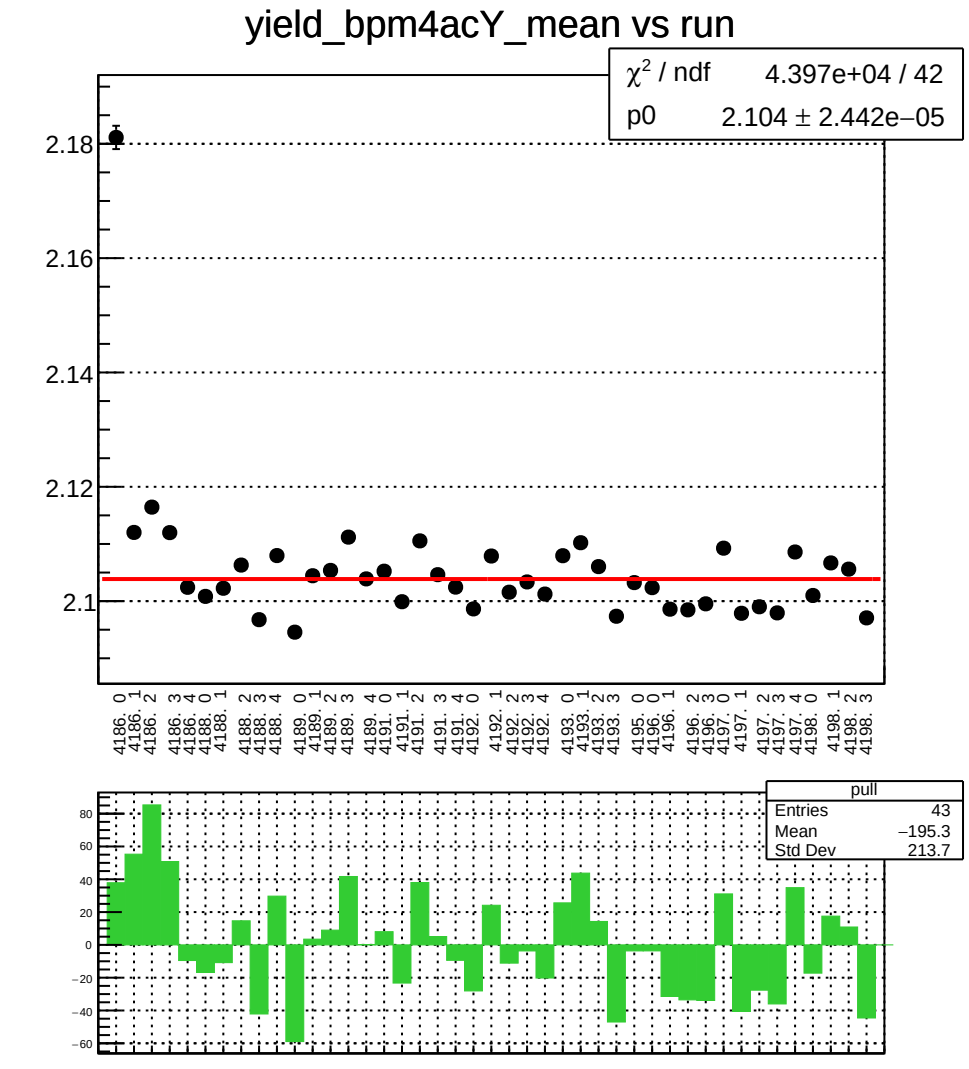

pull
Entries 43
Mean −1.24e+04
Std Dev 1.241e+04
100
80
60
40
20
0
−20
−40
−60

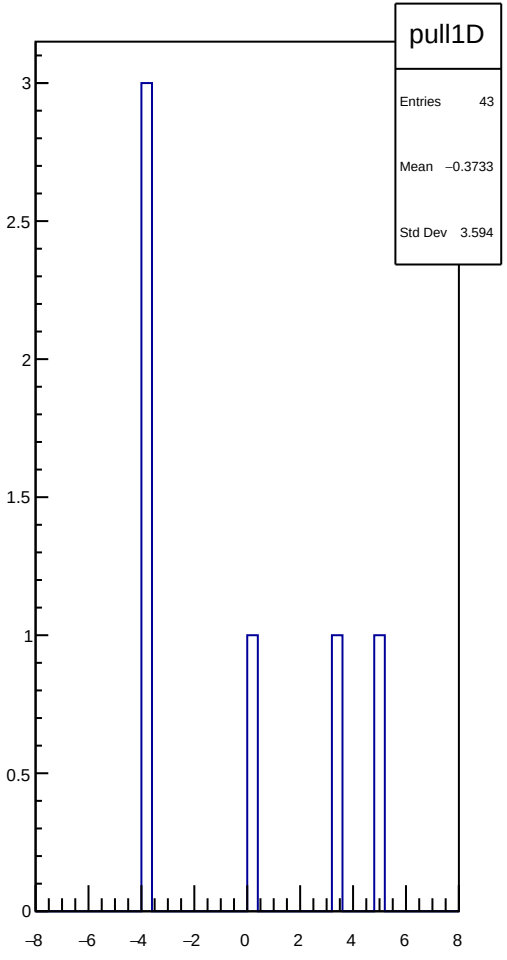

pull1D
Entries 43
Mean −0.04322
Std Dev 4.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

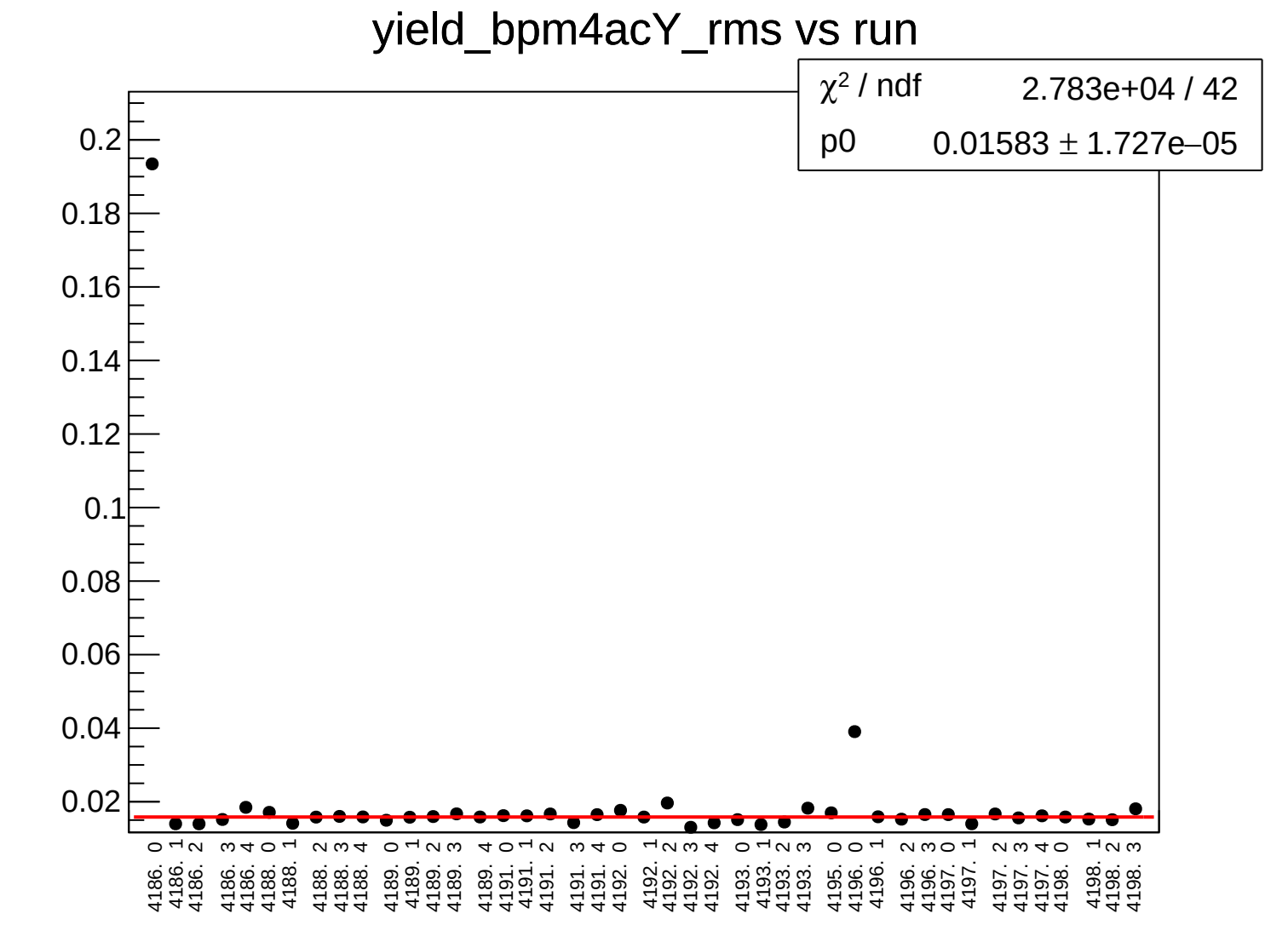

yield_bpm4eY_rms vs run
χ² / ndf 2.818e+04 / 42
p0 0.00986 ± 1.075e−05
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

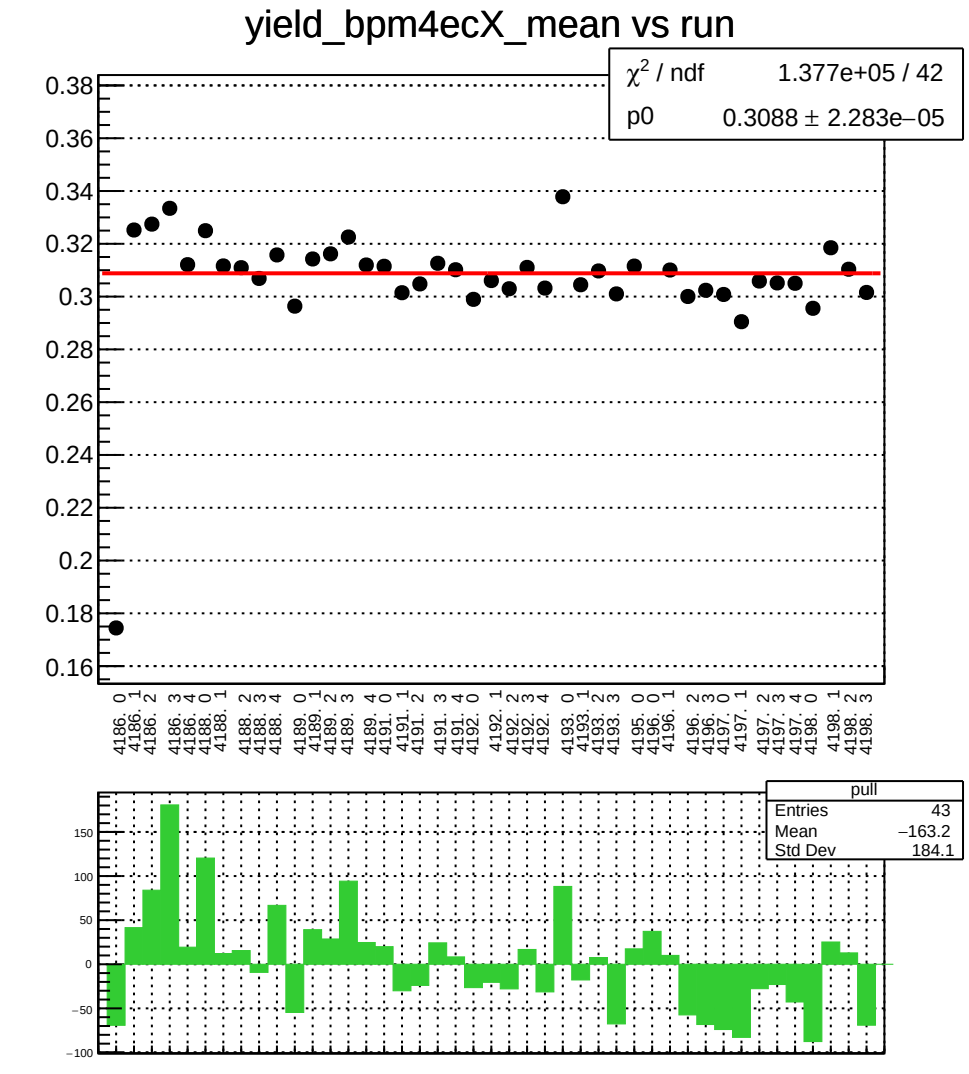

yield_bpm4acX_mean vs run
χ² / ndf 6.097e+04 / 42
p0 −0.4214 ± 1.265e−05
−0.41
−0.42
−0.43
−0.44
−0.45
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 243.9
Std Dev 222.3
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean 0.8752
Std Dev 3.514
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

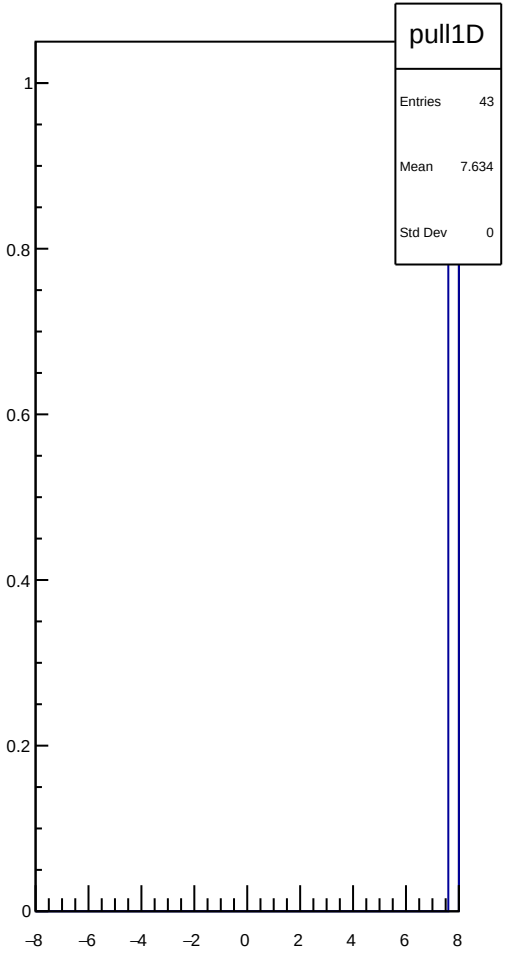

yield_bpm4acX_rms vs run
χ² / ndf 2.312e+04 / 42
p0 0.008228 ± 8.947e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

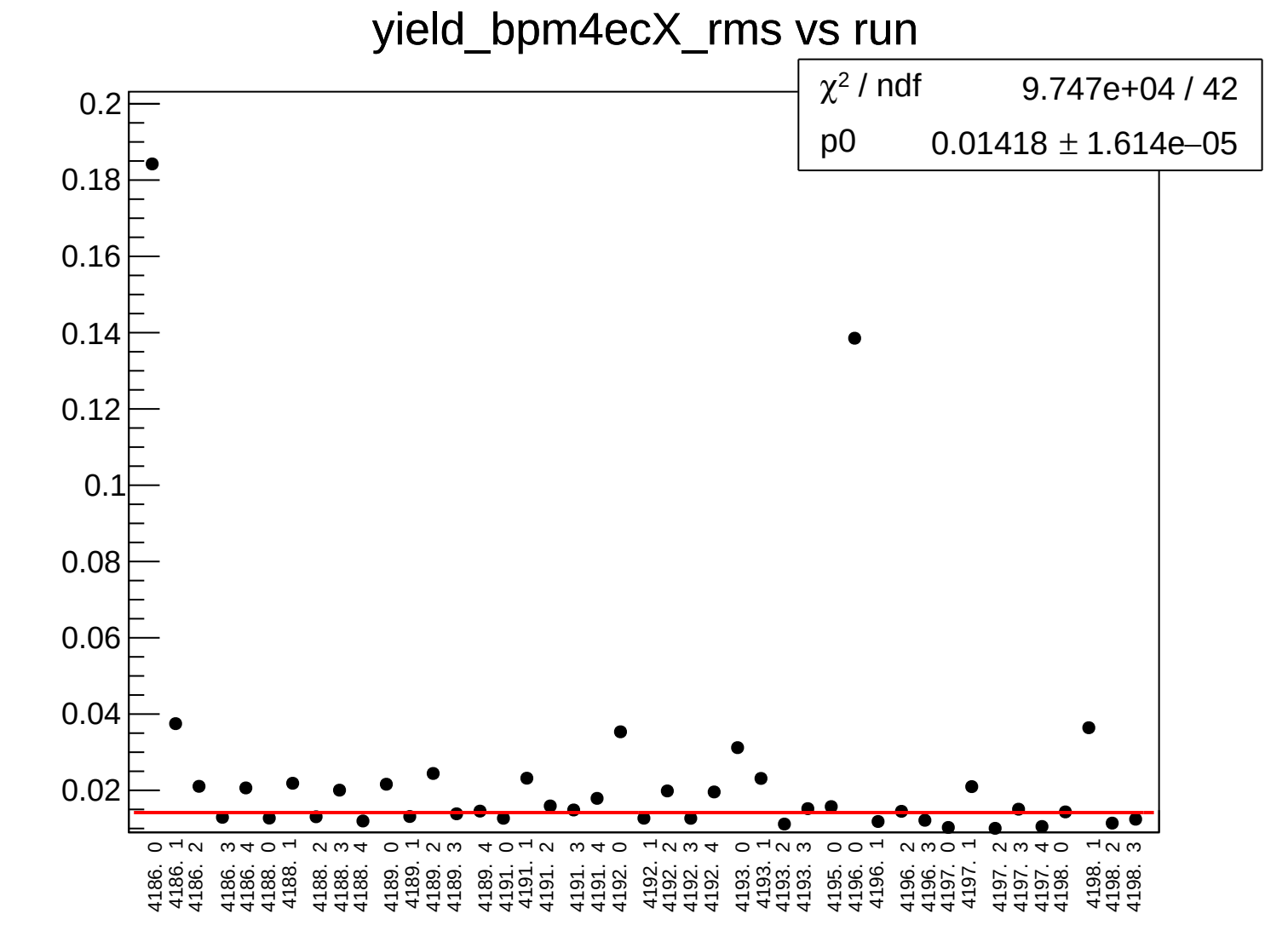

yield_bpm4acY_mean vs run
χ² / ndf 4.397e+04 / 42
p0 2.104 ± 2.442e−05
2.18
2.16
2.14
2.12
2.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −195.3
Std Dev 213.7
80
60
40
20
0
−20
−40
−60

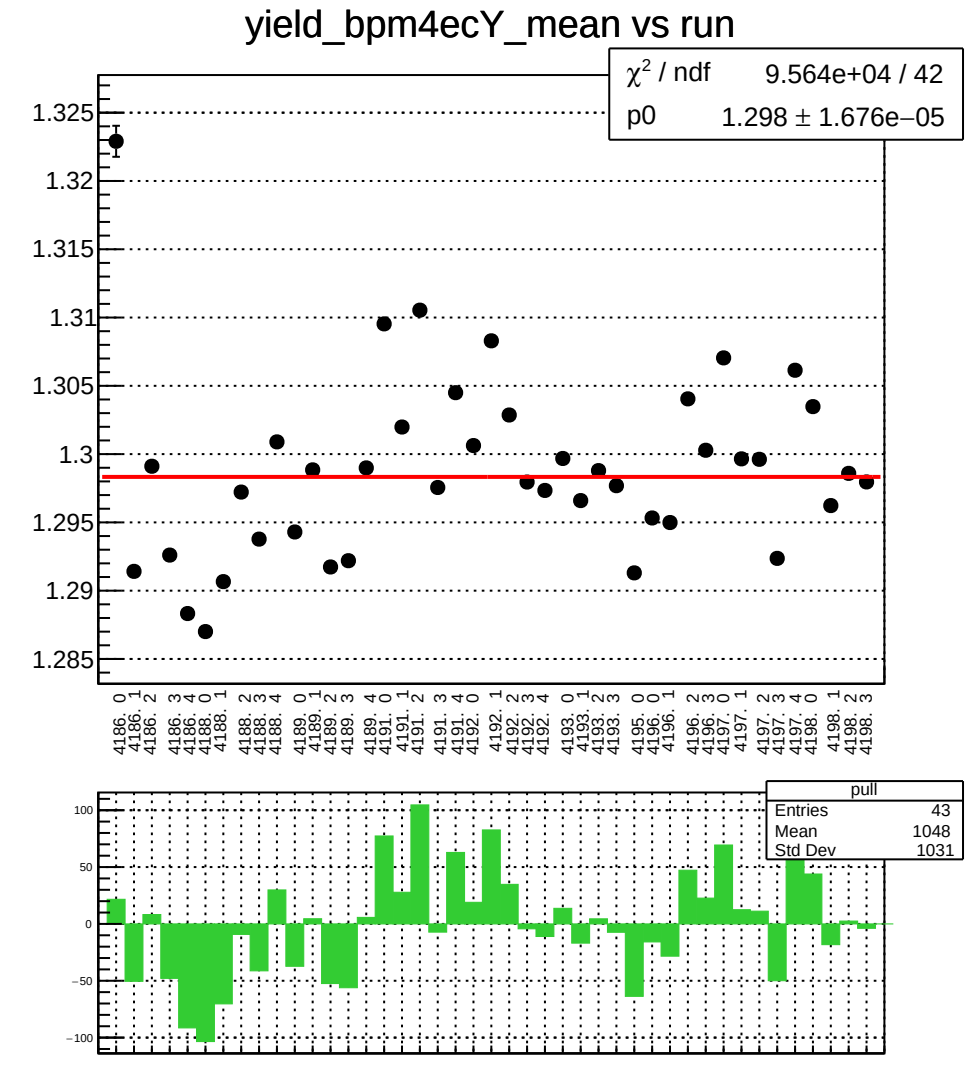

pull1D
Entries 43
Mean −0.3733
Std Dev 3.594
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

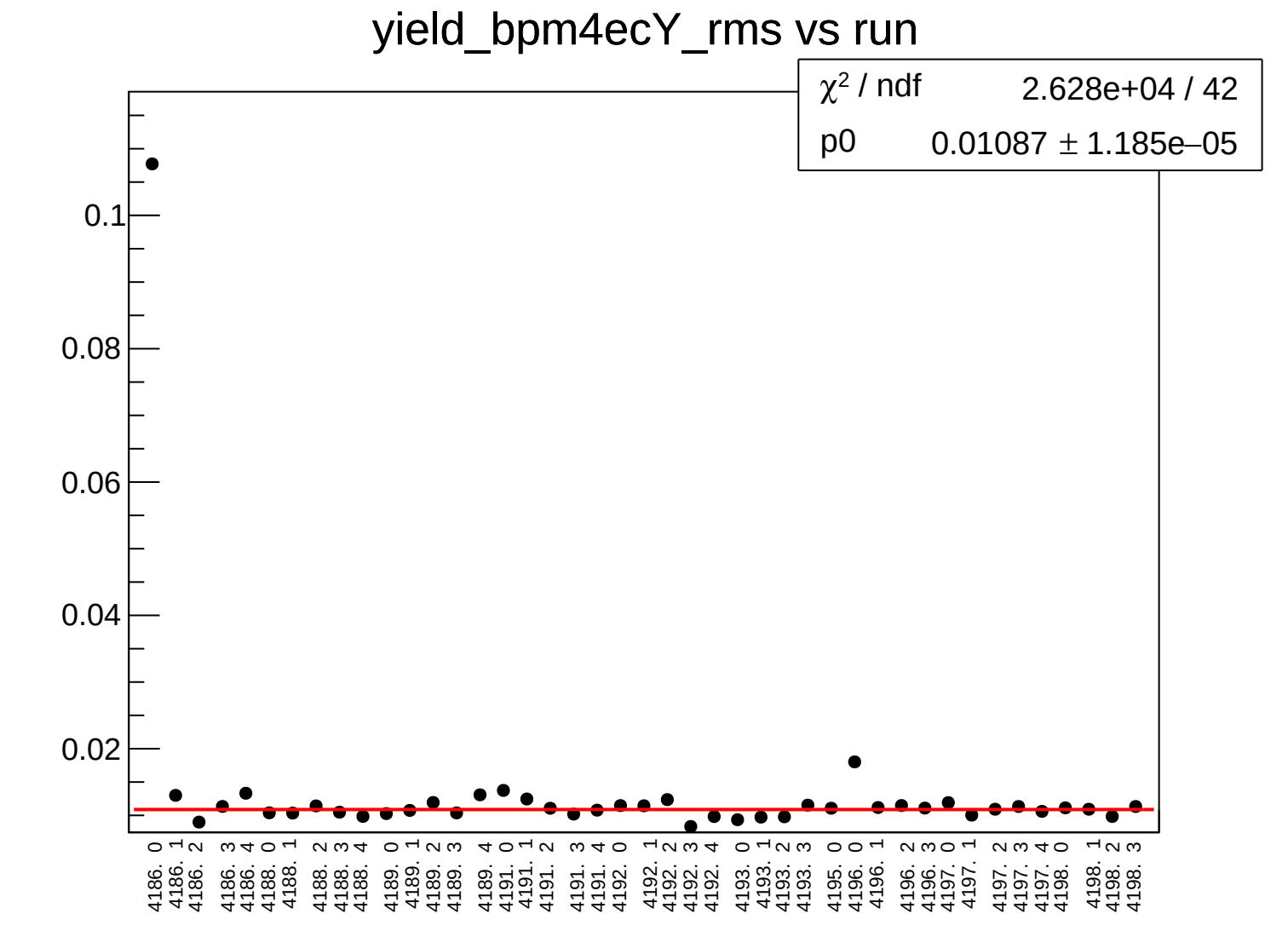

yield_bpm4acY_rms vs run
χ² / ndf 2.783e+04 / 42
p0 0.01583 ± 1.727e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

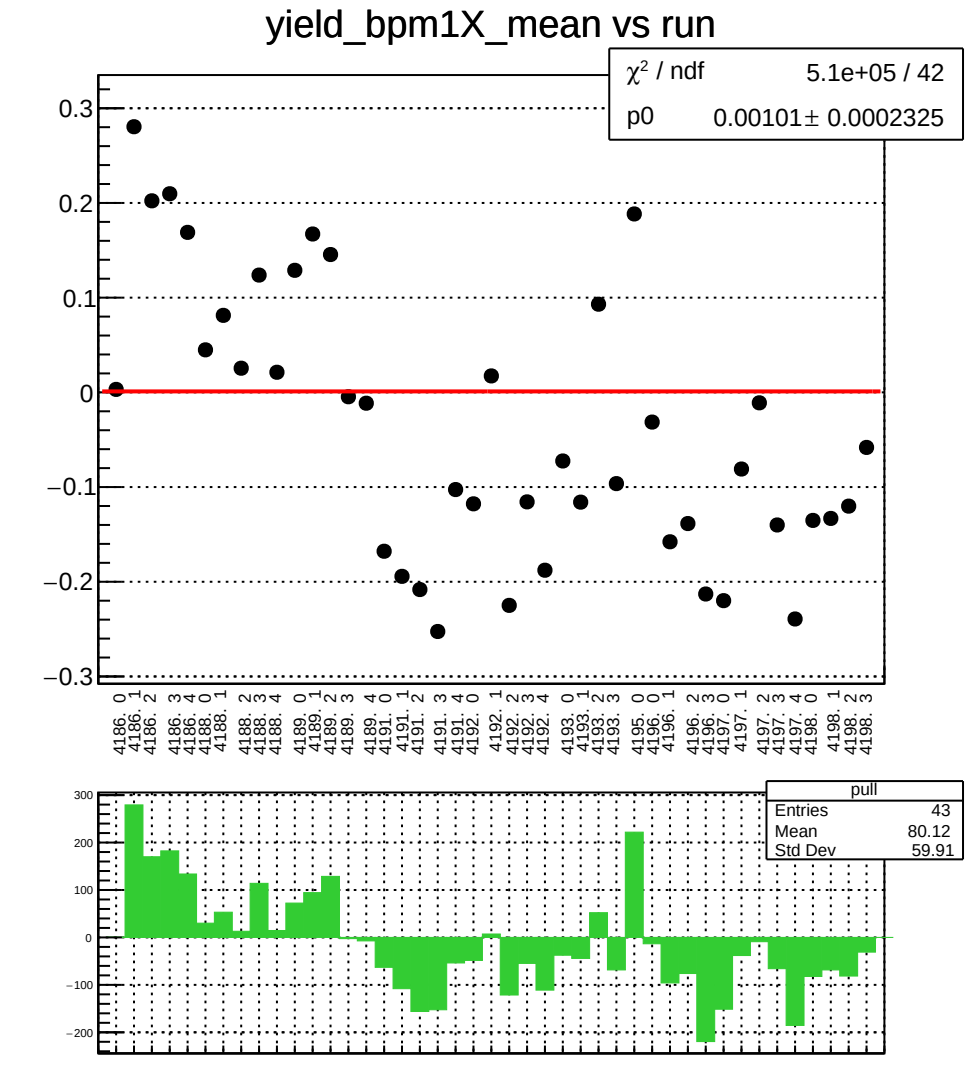

yield_bpm4ecX_mean vs run
χ² / ndf 1.377e+05 / 42
p0 0.3088 ± 2.283e−05
pull
Entries 43
Mean −163.2
Std Dev 184.1

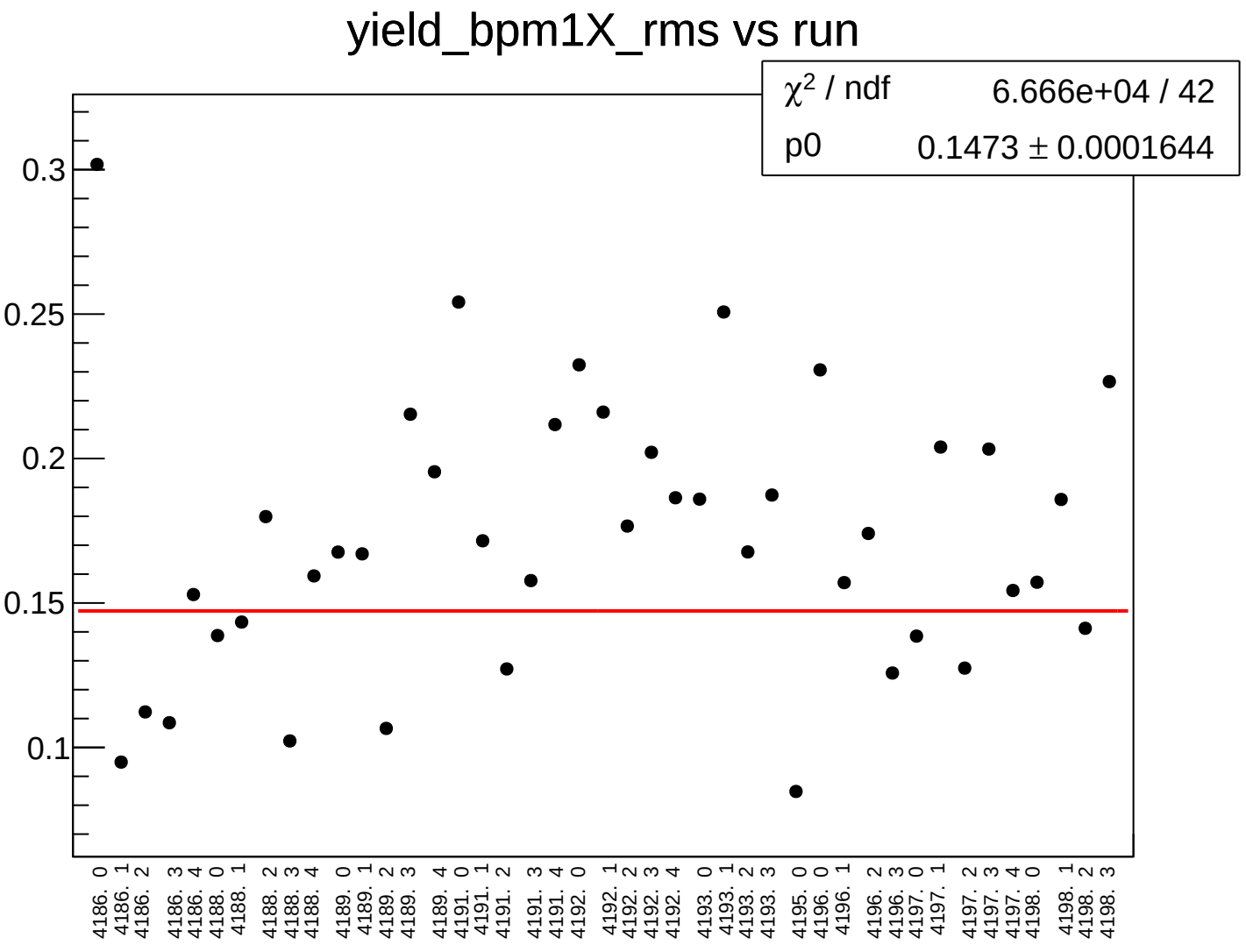

pull1D
Entries 43
Mean 7.634
Std Dev 0

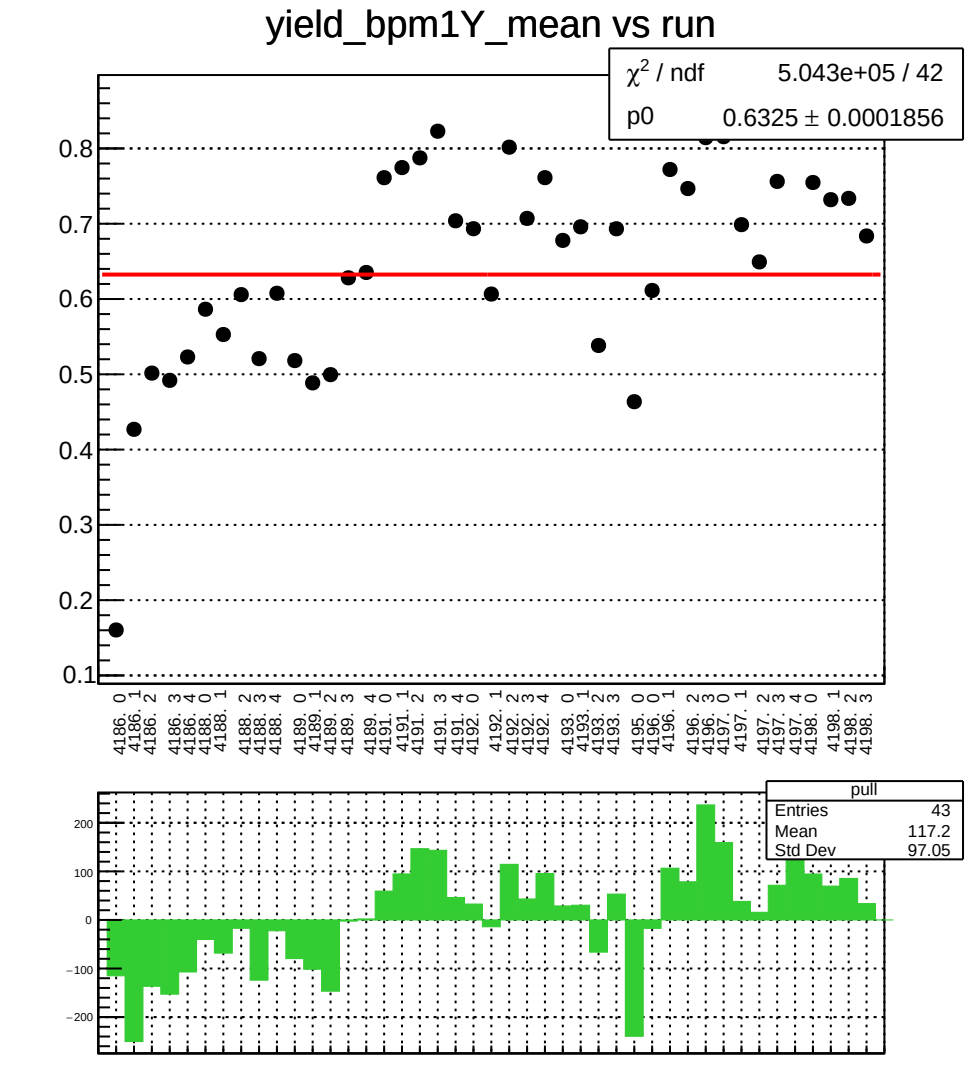

yield_bpm4ecX_rms vs run
χ² / ndf 9.747e+04 / 42
p0 0.01418 ± 1.614e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

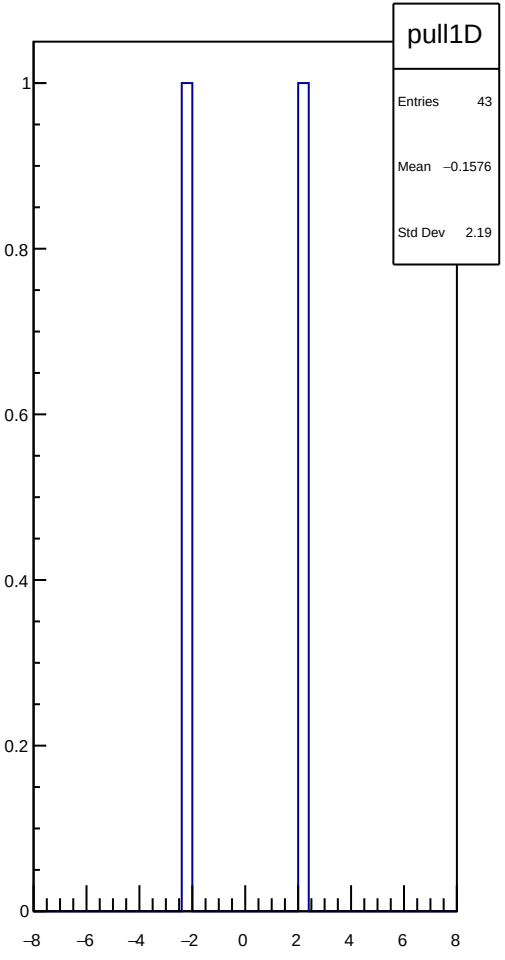

yield_bpm4ecY_mean vs run
χ² / ndf 9.564e+04 / 42
p0 1.298 ± 1.676e−05
1.325
1.32
1.315
1.31
1.305
1.3
1.295
1.29
1.285
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1048
Std Dev 1031
100
50
0
−50
−100
pull1D
Entries 43
Mean −0.6826
Std Dev 5.186
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

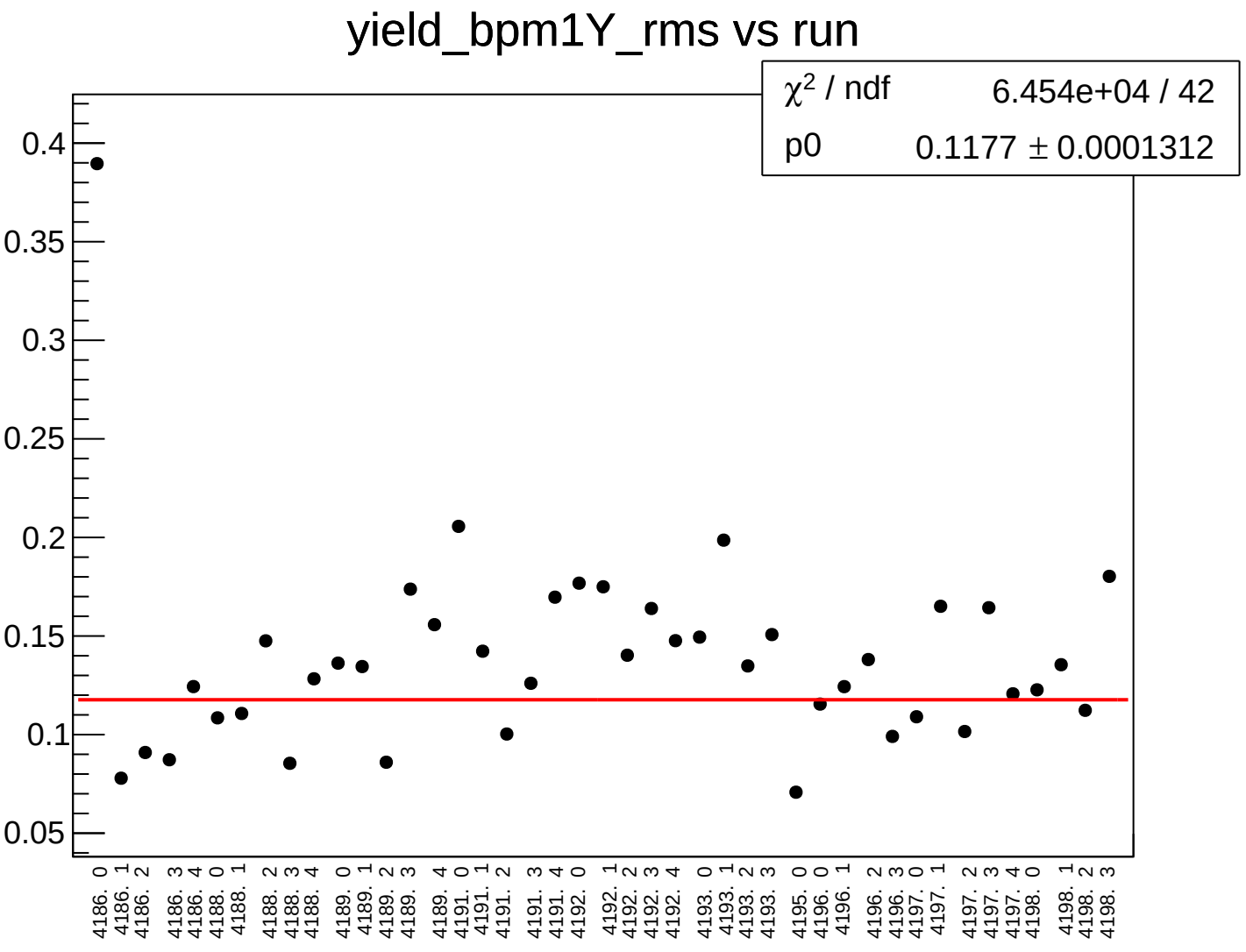

yield_bpm4ecY_rms vs run
χ² / ndf 2.628e+04 / 42
p0 0.01087 ± 1.185e–05
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

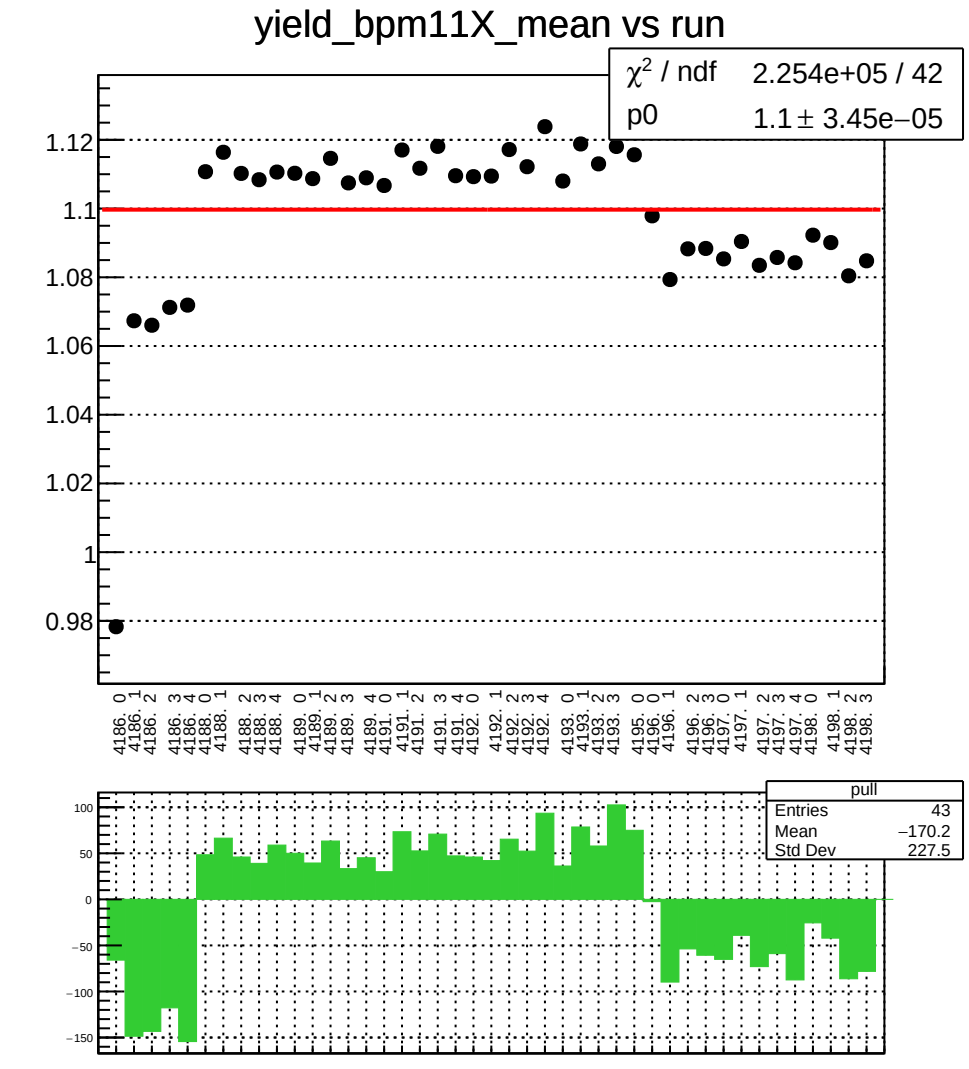

yield_bpm1X_mean vs run
χ² / ndf 5.1e+05 / 42
p0 0.00101± 0.0002325
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 80.12
Std Dev 59.91
300
200
100
0
−100
−200
pull1D
Entries 43
Mean −0.4735
Std Dev 5.242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

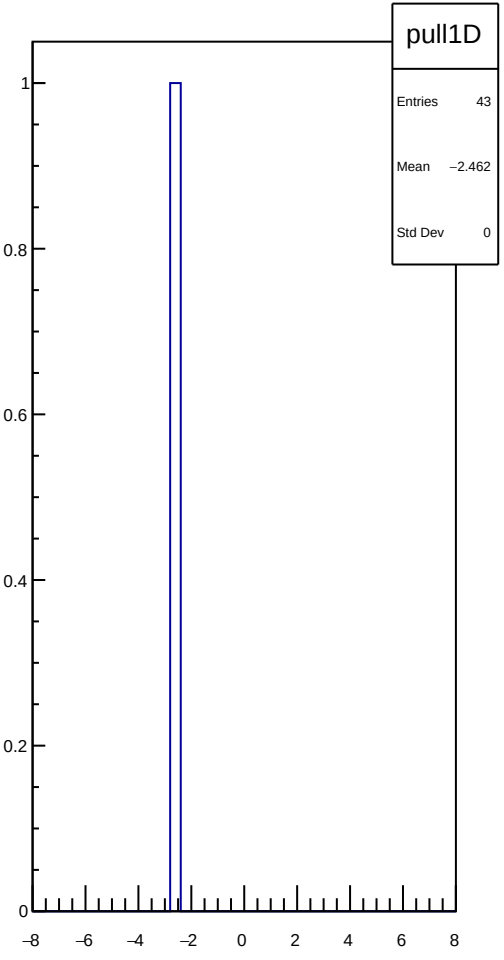

yield_bpm1X_rms vs run
χ² / ndf 6.666e+04 / 42
p0 0.1473 ± 0.0001644
0.3
0.25
0.2
0.15
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

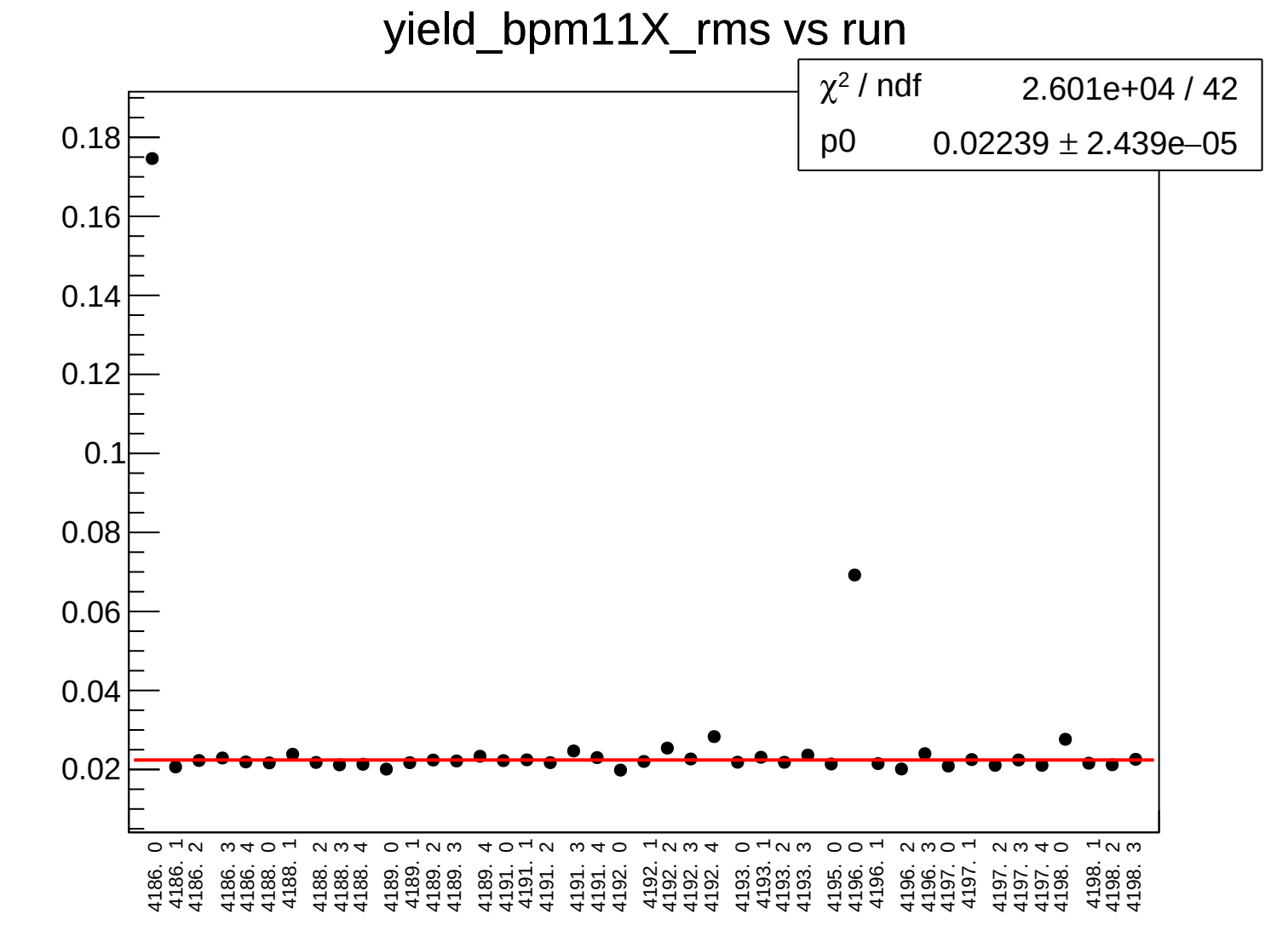

yield_bpm1Y_mean vs run
χ² / ndf 5.043e+05 / 42
p0 0.6325 ± 0.0001856
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 117.2
Std Dev 97.05
200
100
0
−100
−200

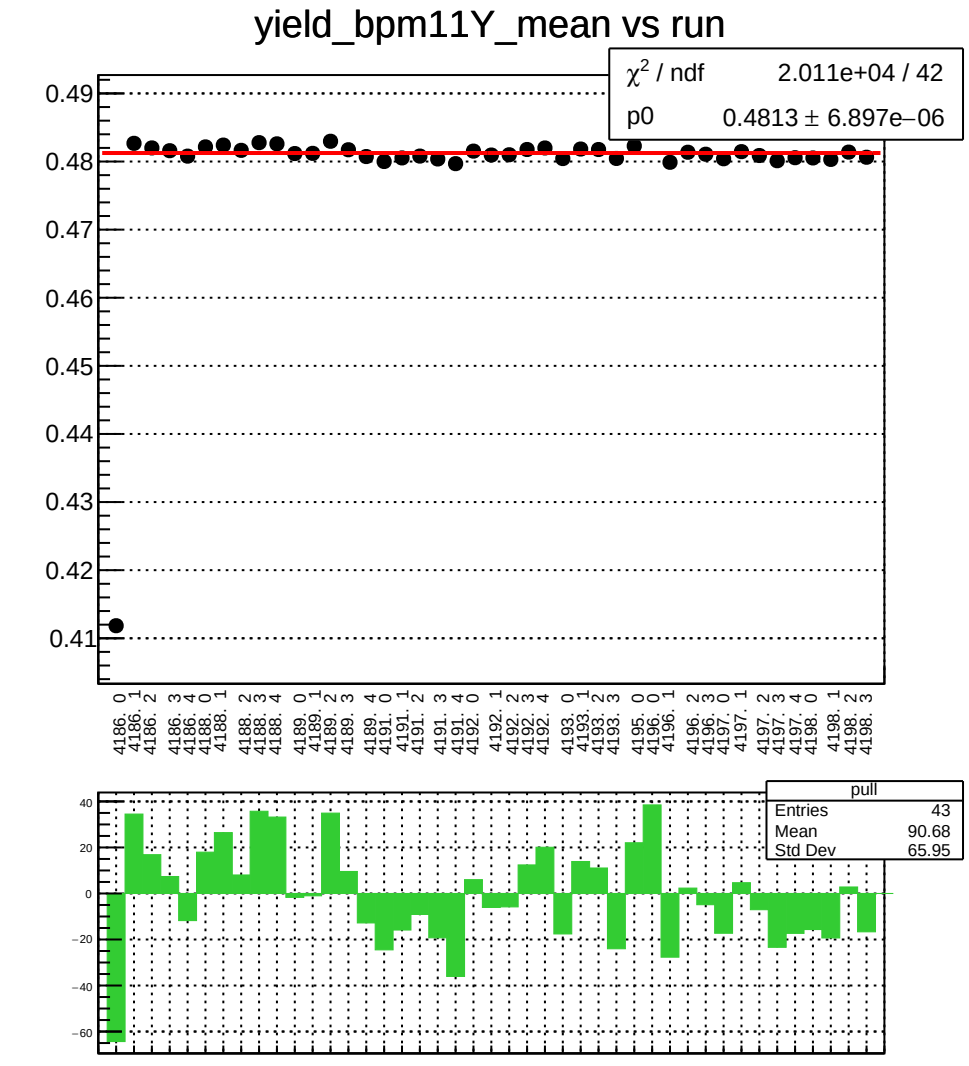

pull1D
Entries 43
Mean −0.1576
Std Dev 2.19
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

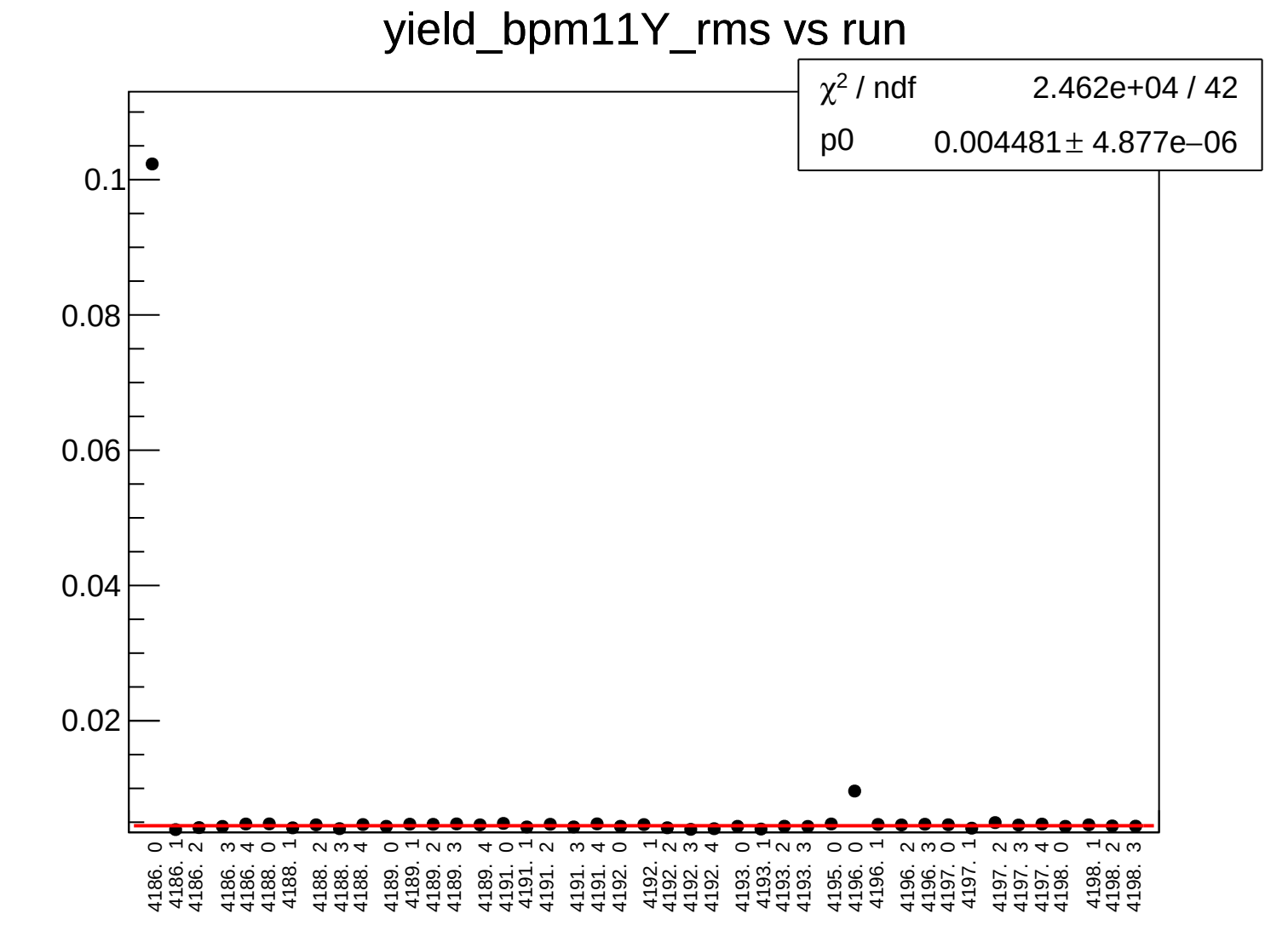

yield_bpm1Y_rms vs run
χ² / ndf 6.454e+04 / 42
p0 0.1177 ± 0.0001312
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

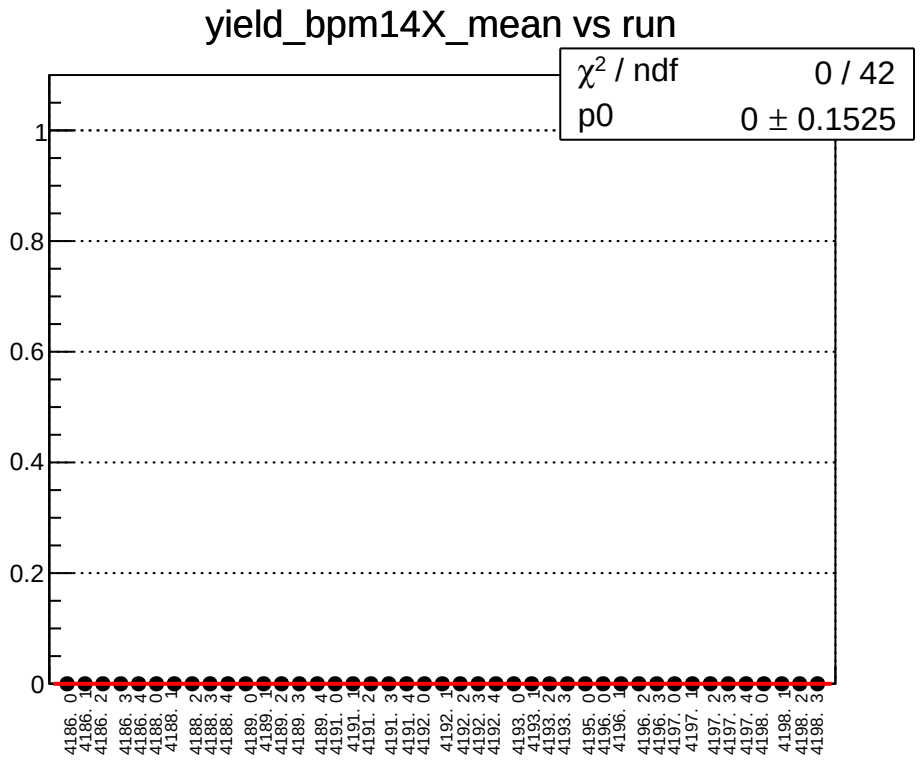

yield_bpm11X_mean vs run
χ² / ndf 2.254e+05 / 42
p0 1.1 ± 3.45e−05
1.12
1.1
1.08
1.06
1.04
1.02
1
0.98
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −170.2
Std Dev 227.5
100
50
0
−50
−100
−150

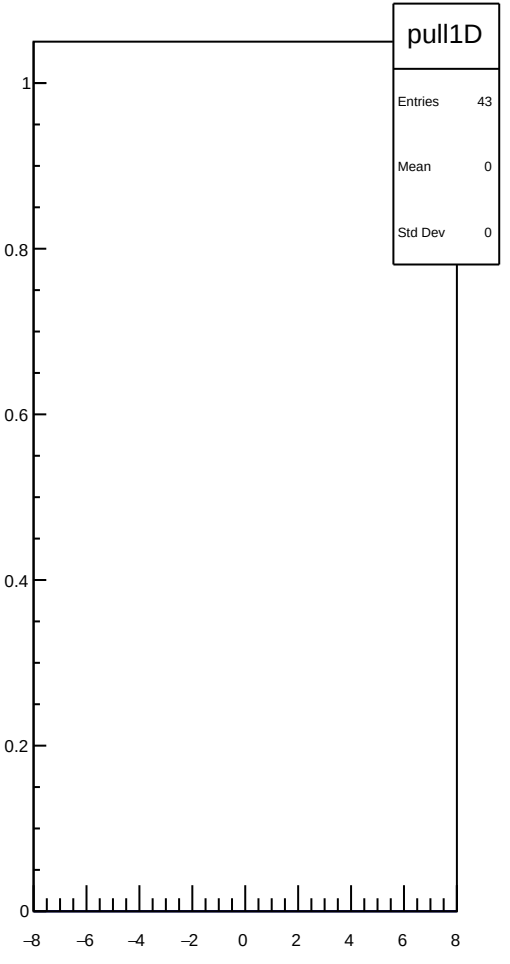

pull1D
Entries 43
Mean −2.462
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

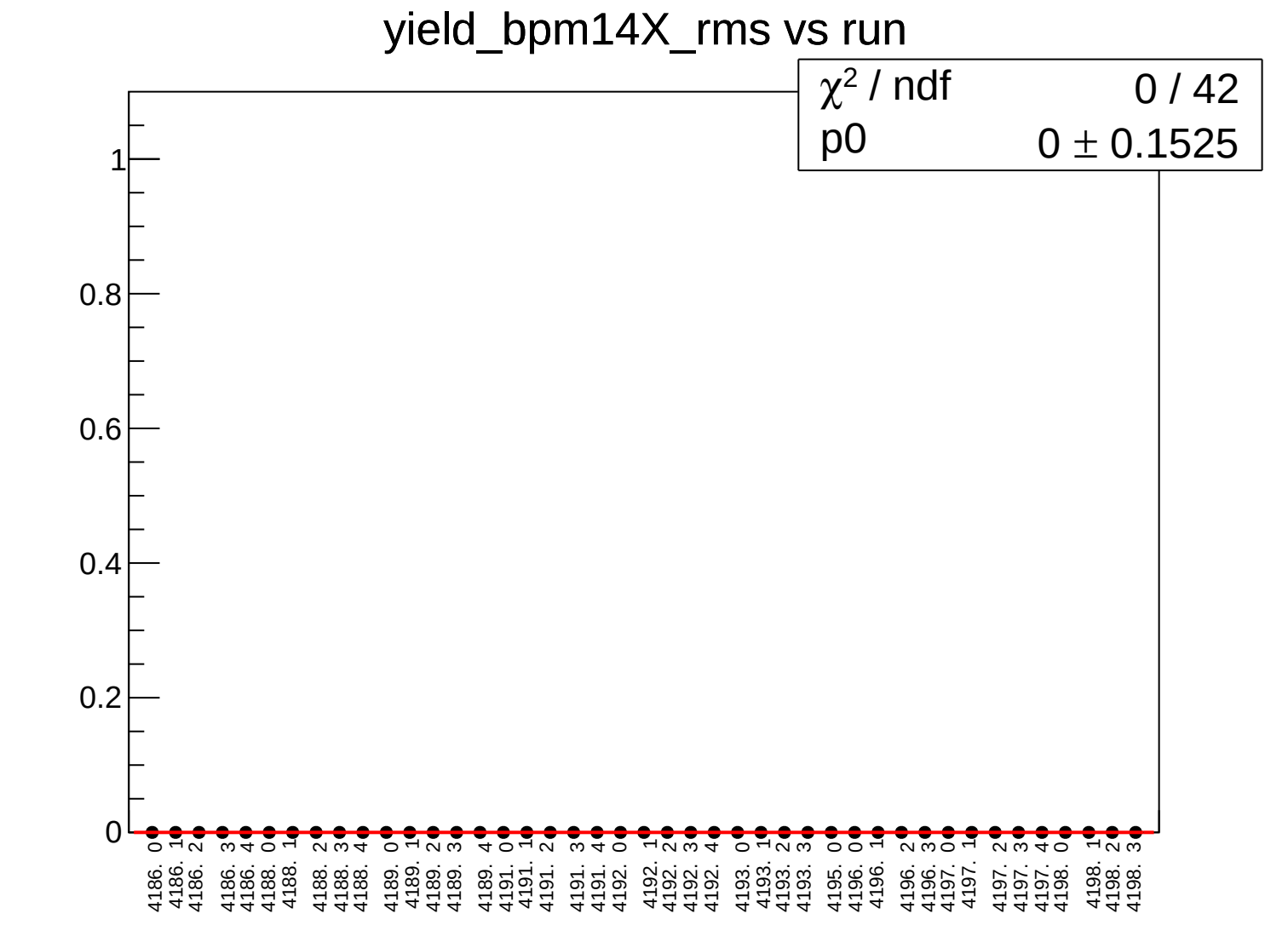

yield_bpm11X_rms vs run
χ² / ndf 2.601e+04 / 42
p0 0.02239 ± 2.439e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

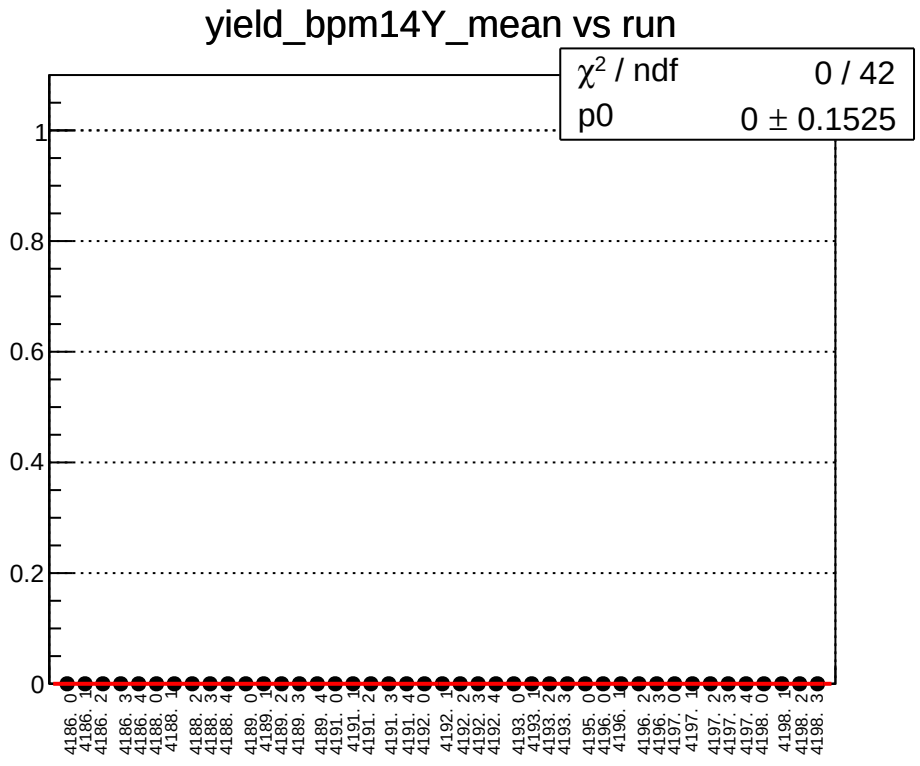

yield_bpm11Y_mean vs run
χ² / ndf 2.011e+04 / 42
p0 0.4813 ± 6.897e−06
0.49
0.48
0.47
0.46
0.45
0.44
0.43
0.42
0.41
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 90.68
Std Dev 65.95
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean −0.3014
Std Dev 4.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

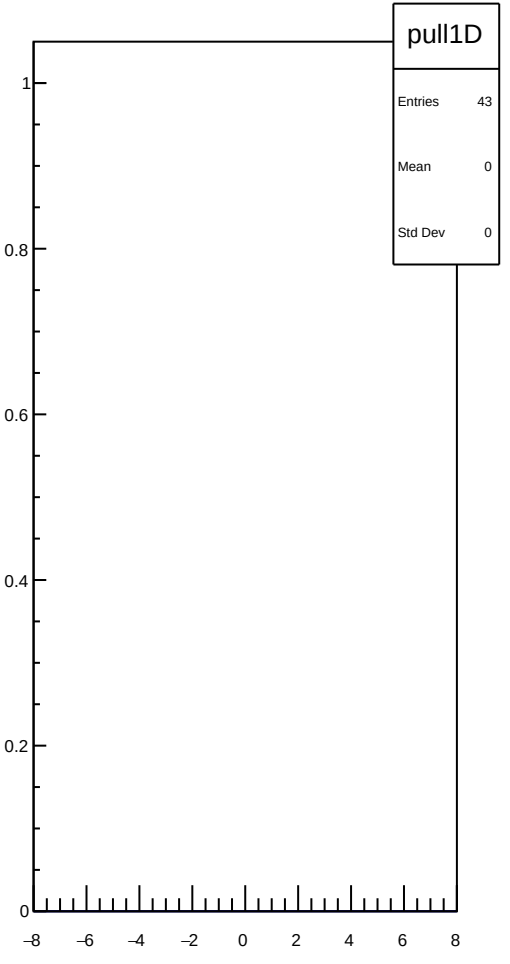

yield_bpm11Y_rms vs run
χ² / ndf 2.462e+04 / 42
p0 0.004481 ± 4.877e−06
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

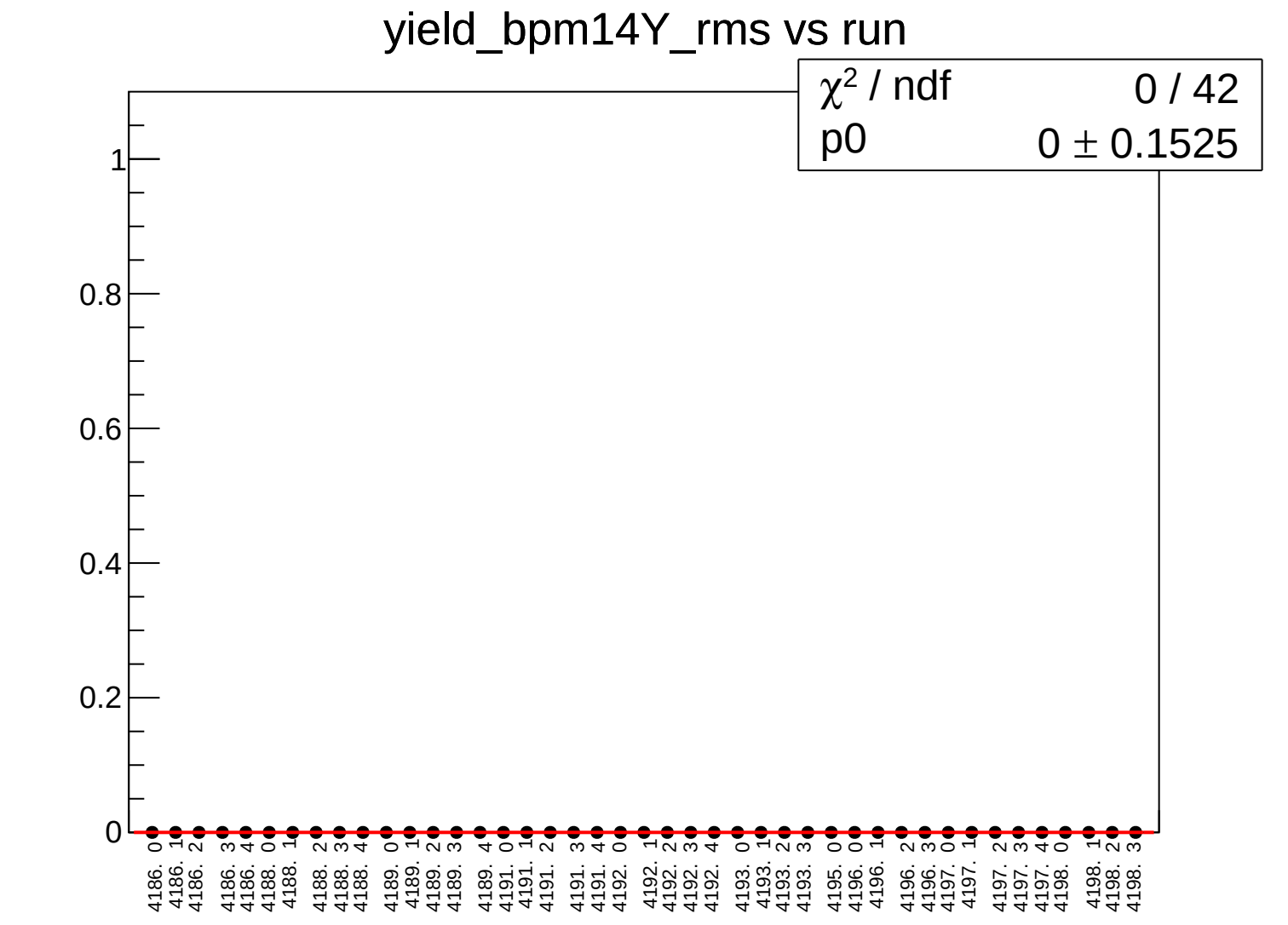

yield_bpm14X_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

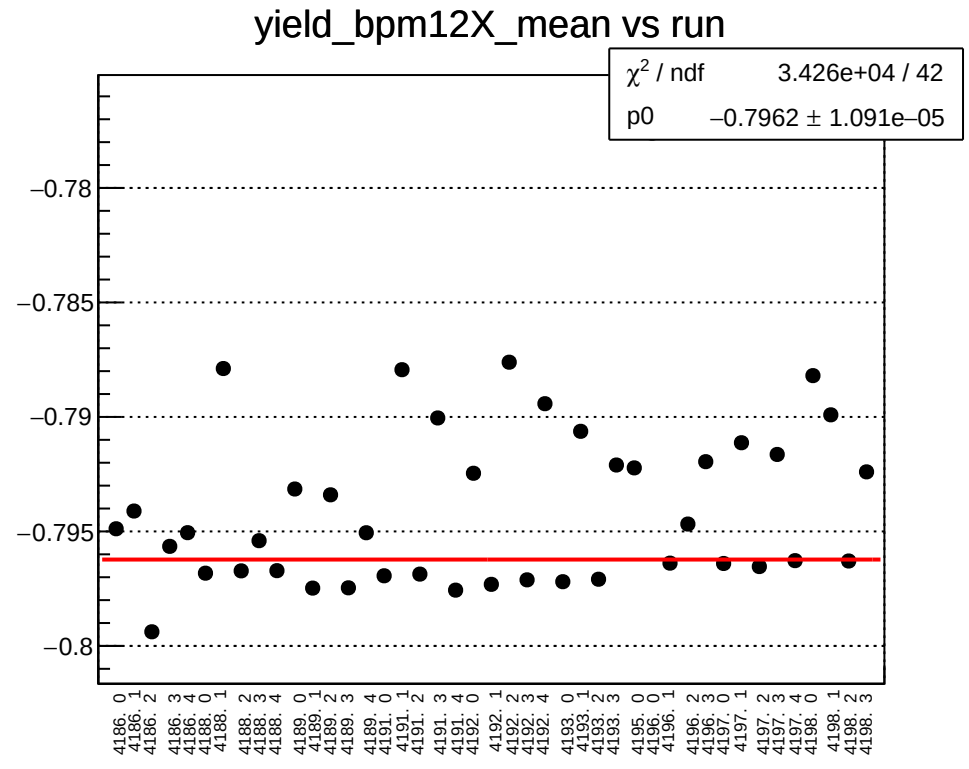

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

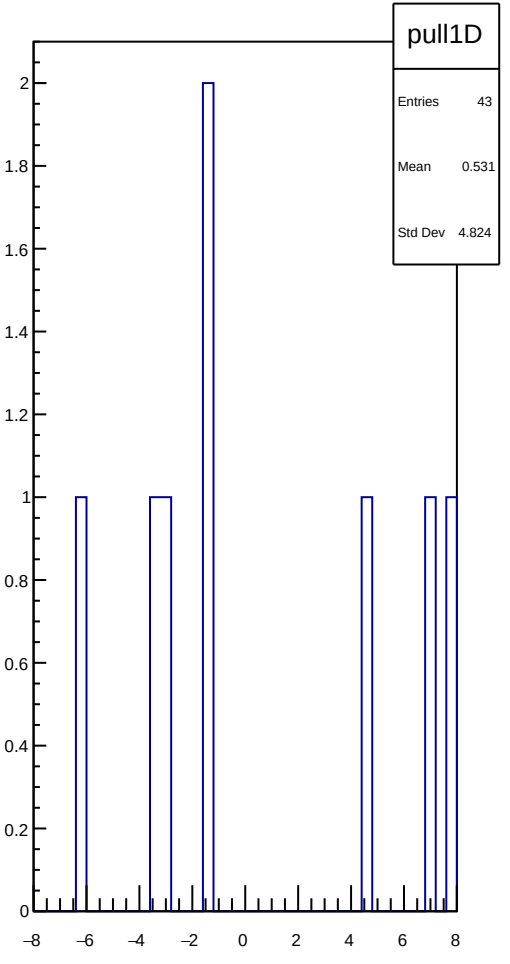

yield_bpm14X_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

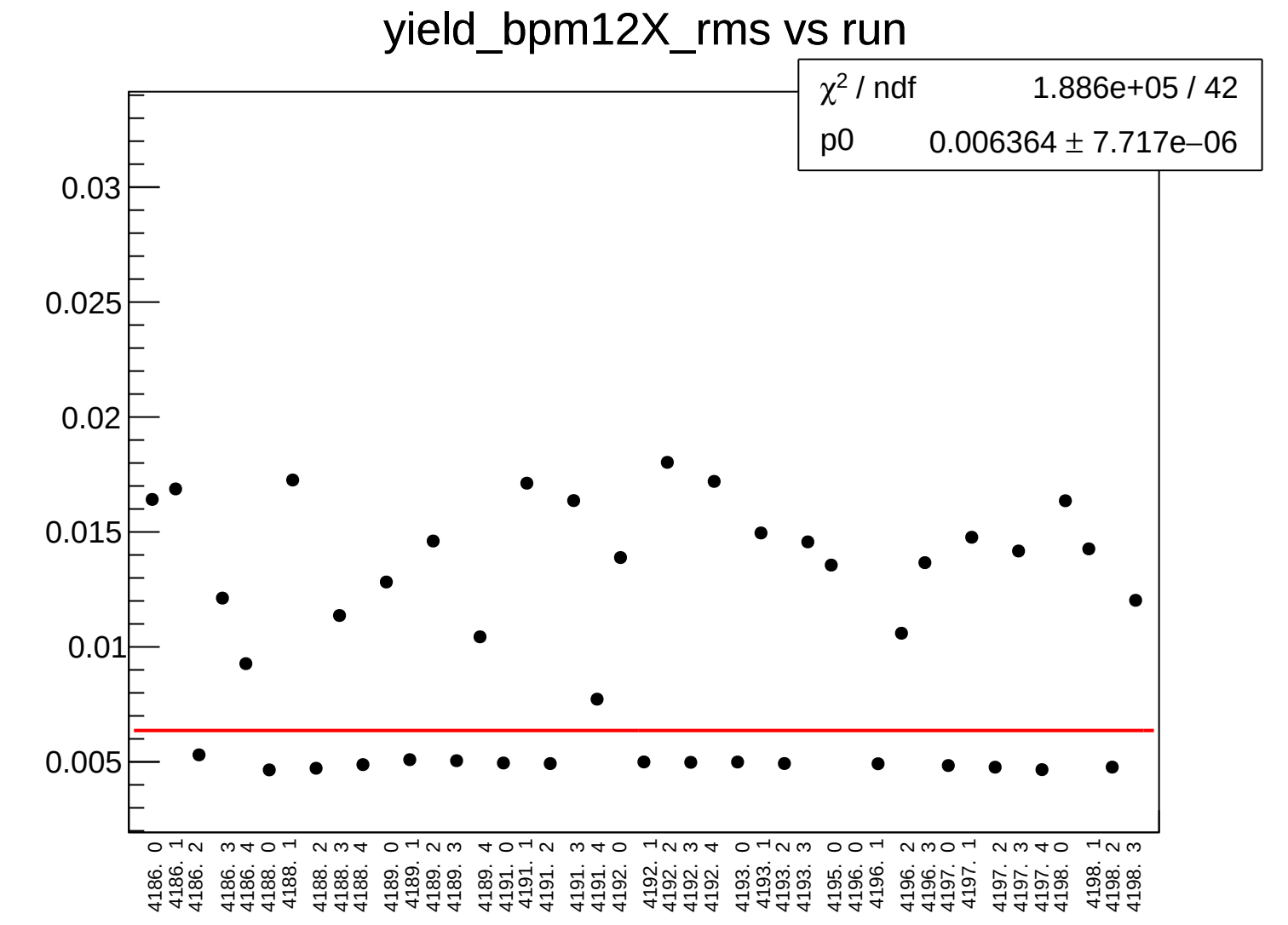

yield_bpm14Y_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

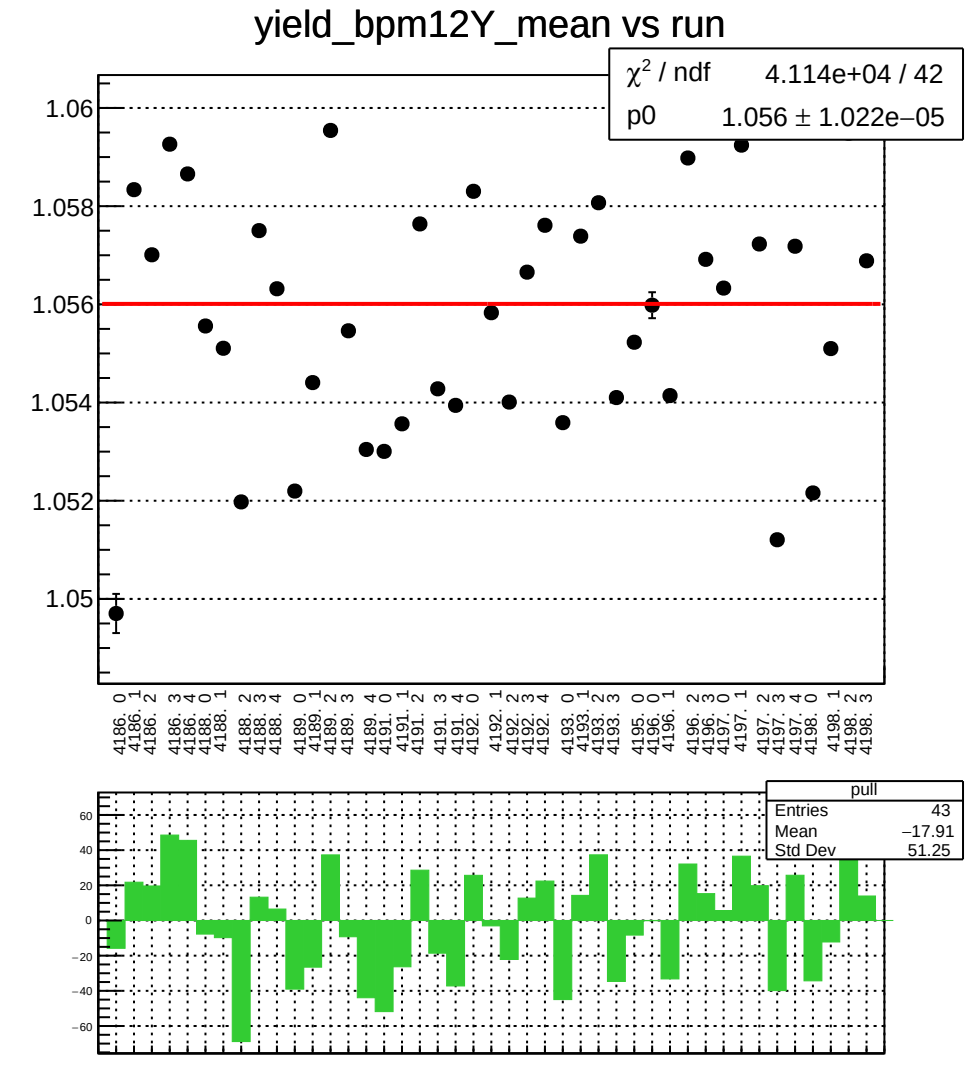

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

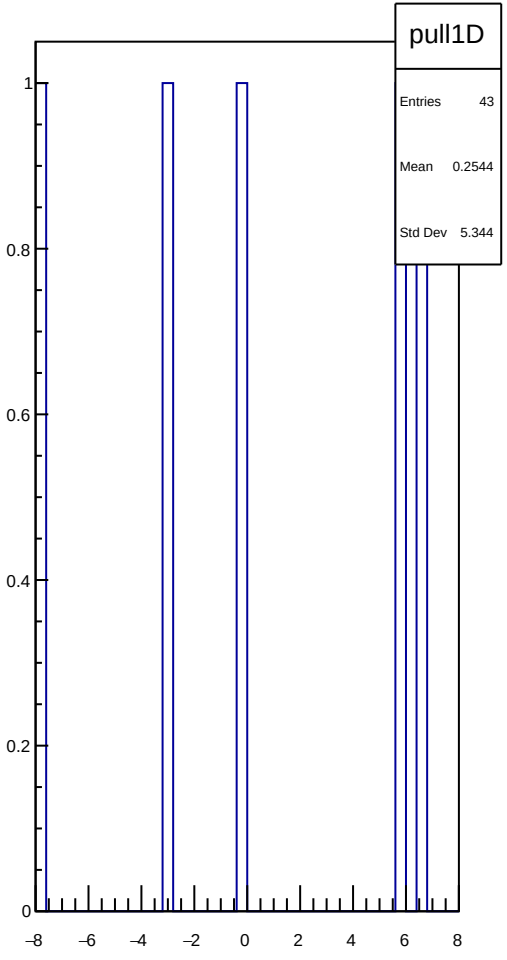

yield_bpm14Y_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

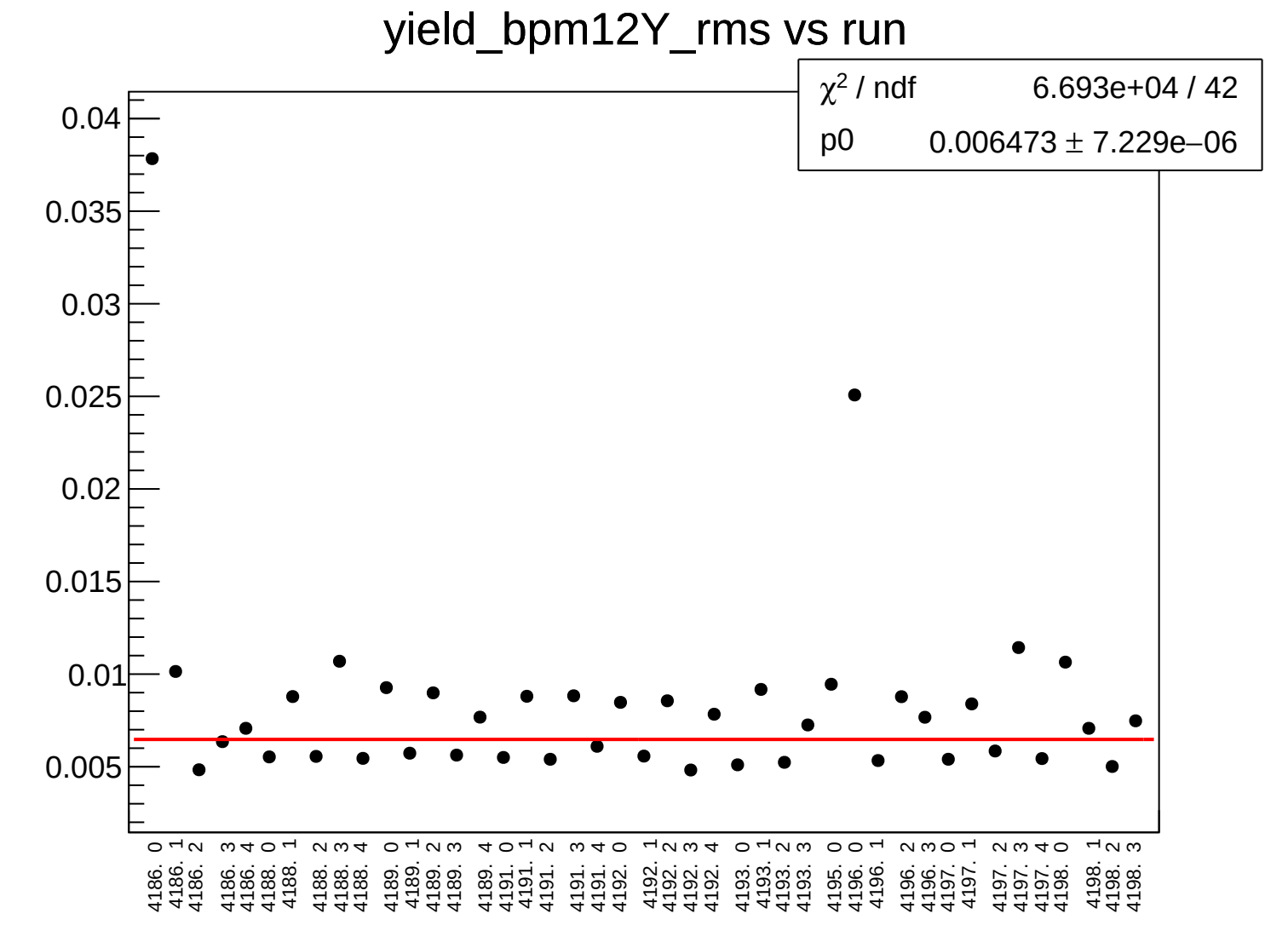

yield_bpm12X_mean vs run
χ² / ndf 3.426e+04 / 42
p0 −0.7962 ± 1.091e−05
−0.78
−0.785
−0.79
−0.795
−0.8
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 31.34
Std Dev 7.711
60
40
20
0
−20
−40
−60

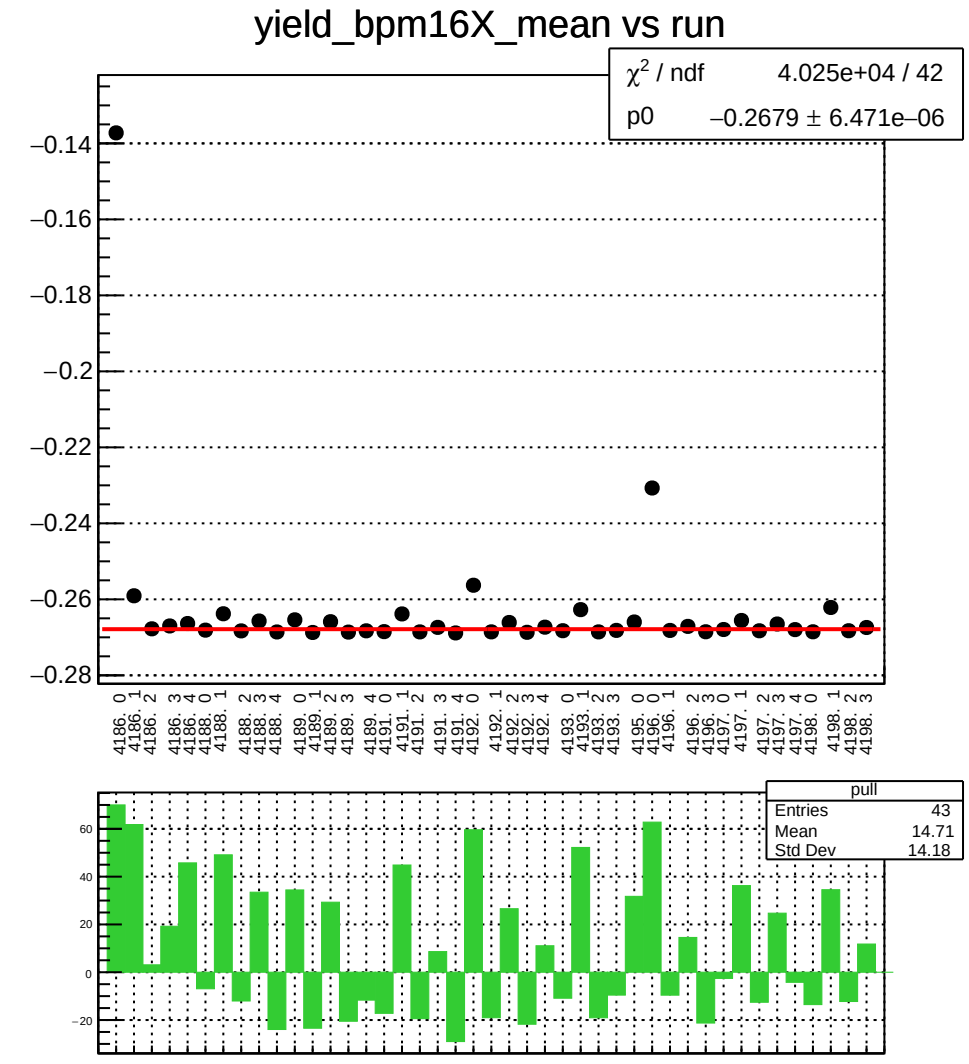

pull1D
Entries 43
Mean 0.531
Std Dev 4.824
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

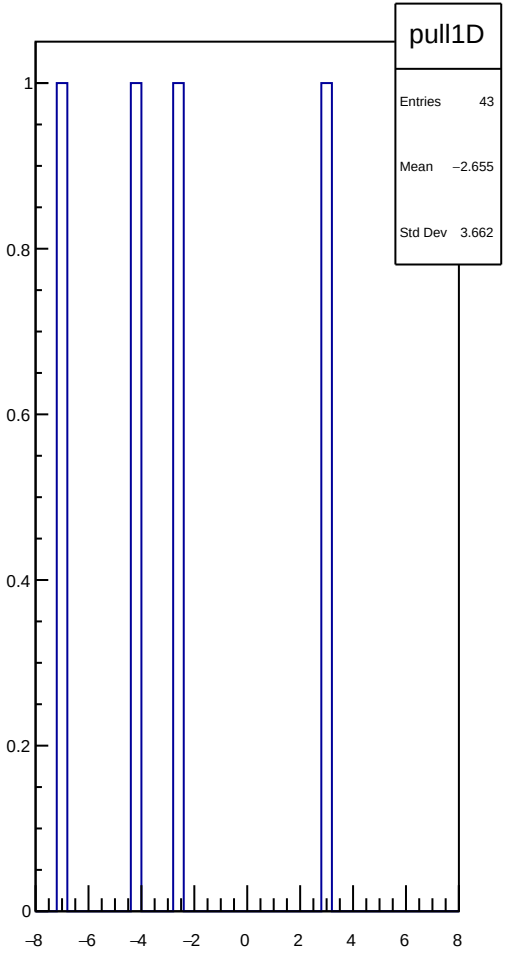

yield_bpm12X_rms vs run
χ² / ndf 1.886e+05 / 42
p0 0.006364 ± 7.717e−06
0.03
0.025
0.02
0.015
0.01
0.005
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

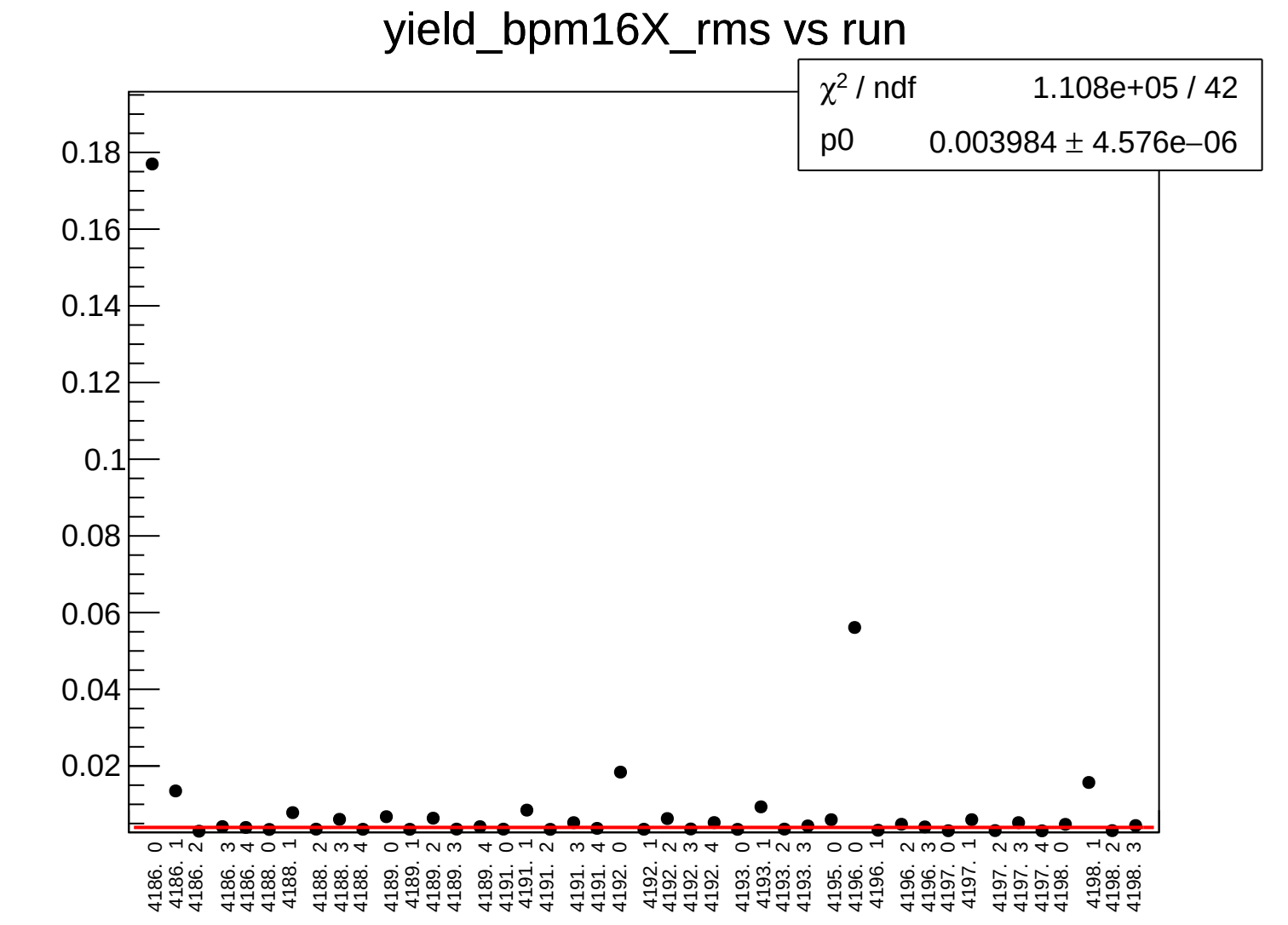

yield_bpm12Y_mean vs run
χ² / ndf 4.114e+04 / 42
p0 1.056 ± 1.022e−05
1.06
1.058
1.056
1.054
1.052
1.05
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −17.91
Std Dev 51.25
60
40
20
0
−20
−40
−60

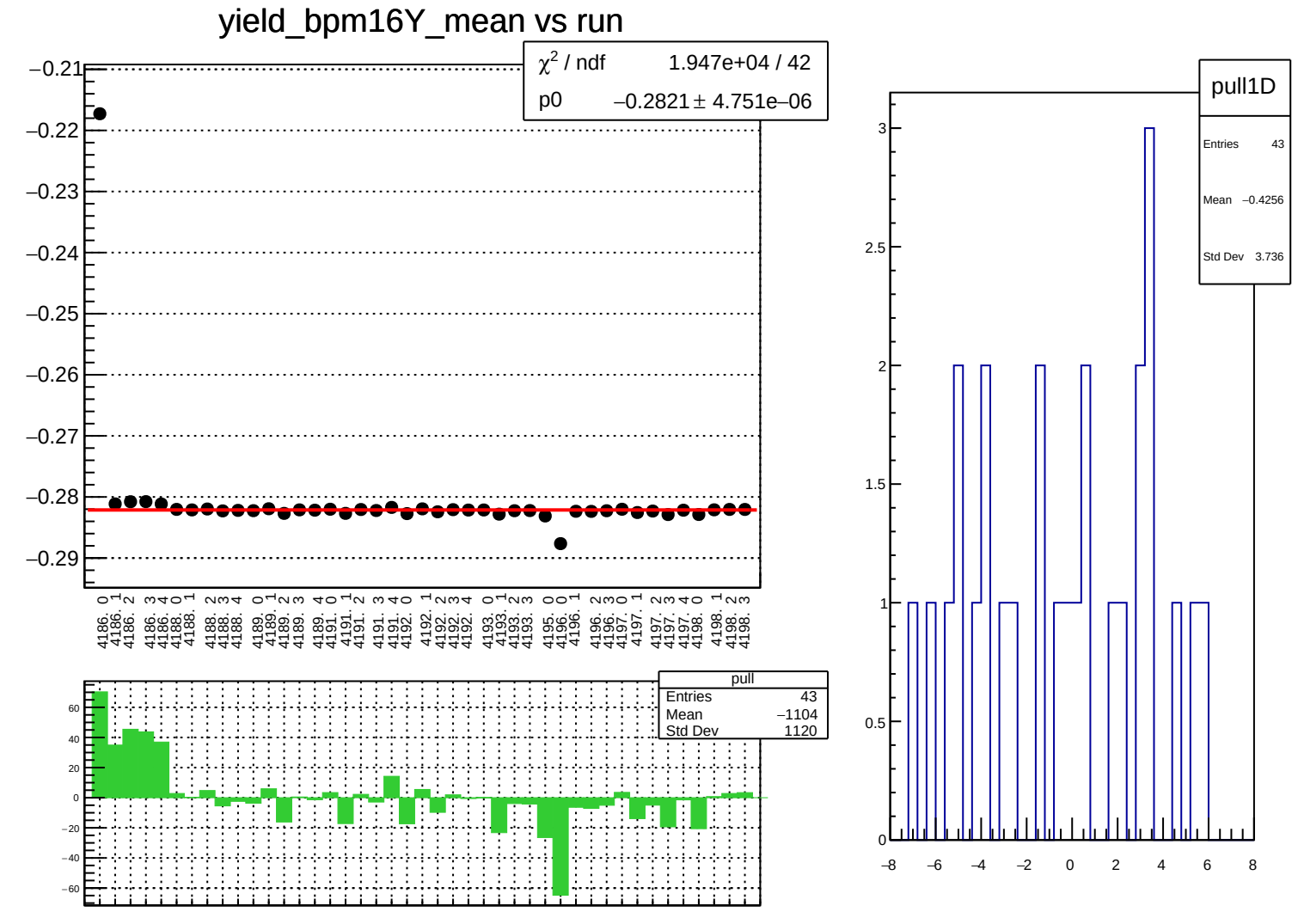

pull1D
Entries 43
Mean 0.2544
Std Dev 5.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

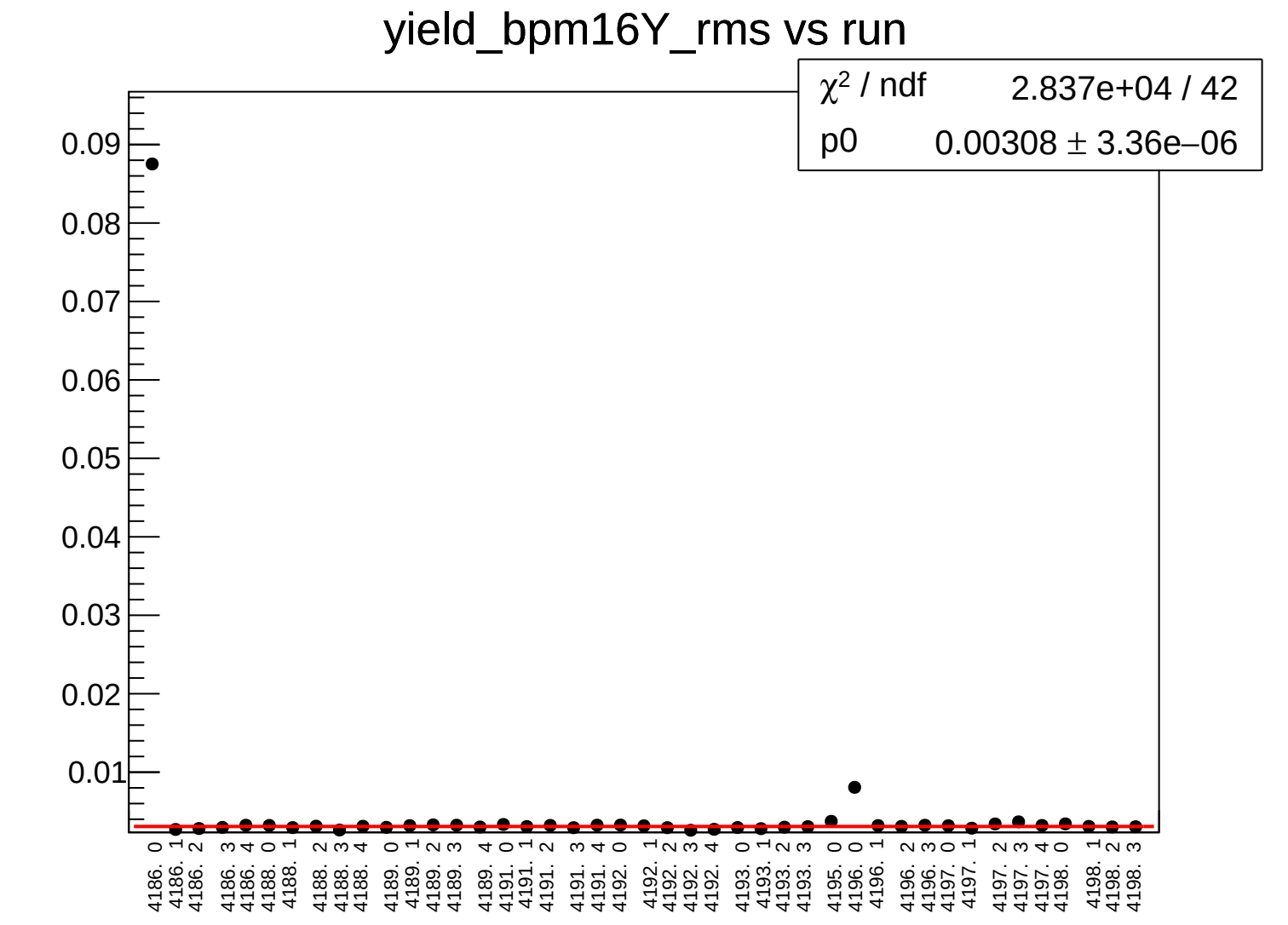

yield_bpm12Y_rms vs run
χ² / ndf 6.693e+04 / 42
p0 0.006473 ± 7.229e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

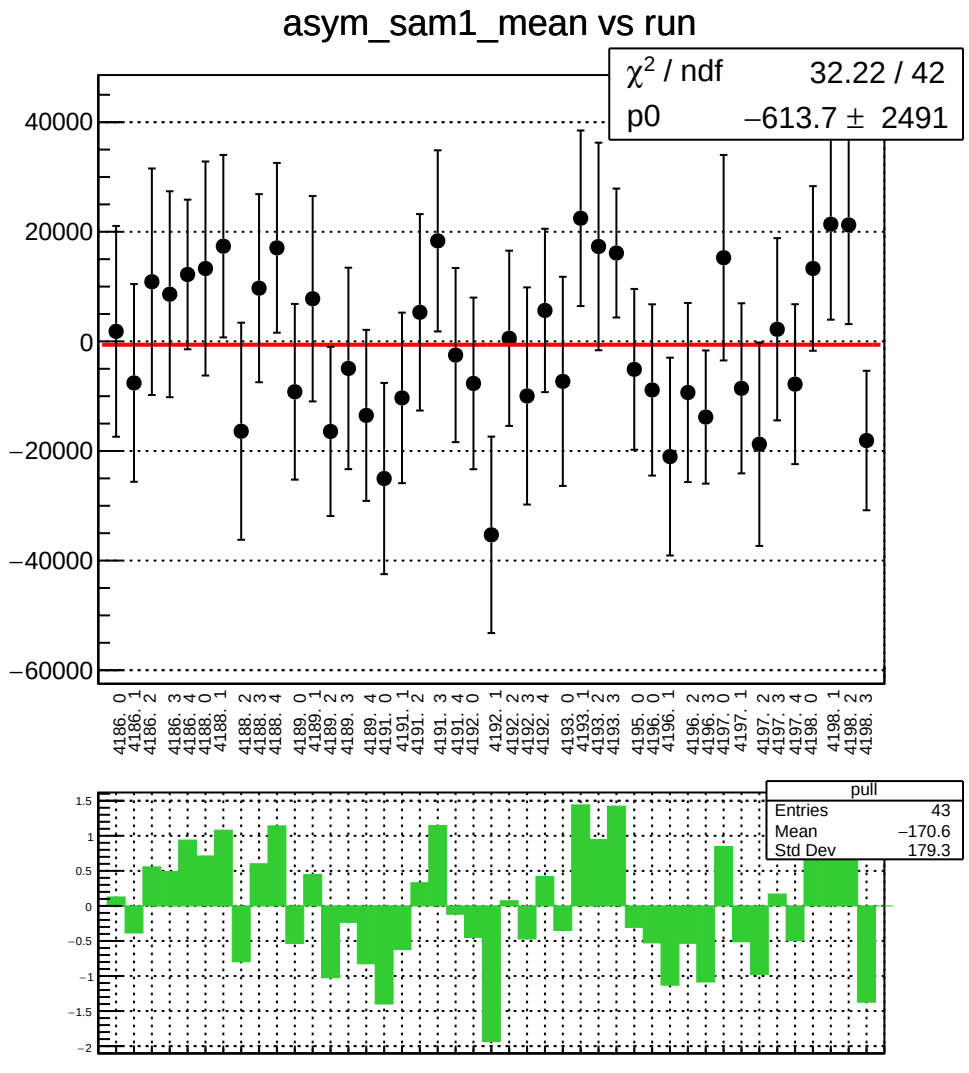

yield_bpm16X_mean vs run
χ² / ndf 4.025e+04 / 42
p0 −0.2679 ± 6.471e−06
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 14.71
Std Dev 14.18
60
40
20
0
−20

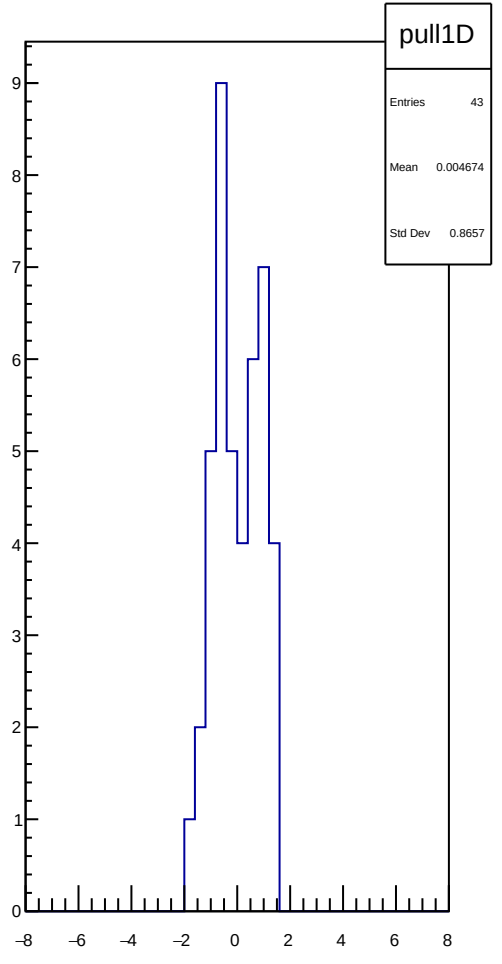

pull1D
Entries 43
Mean −2.655
Std Dev 3.662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

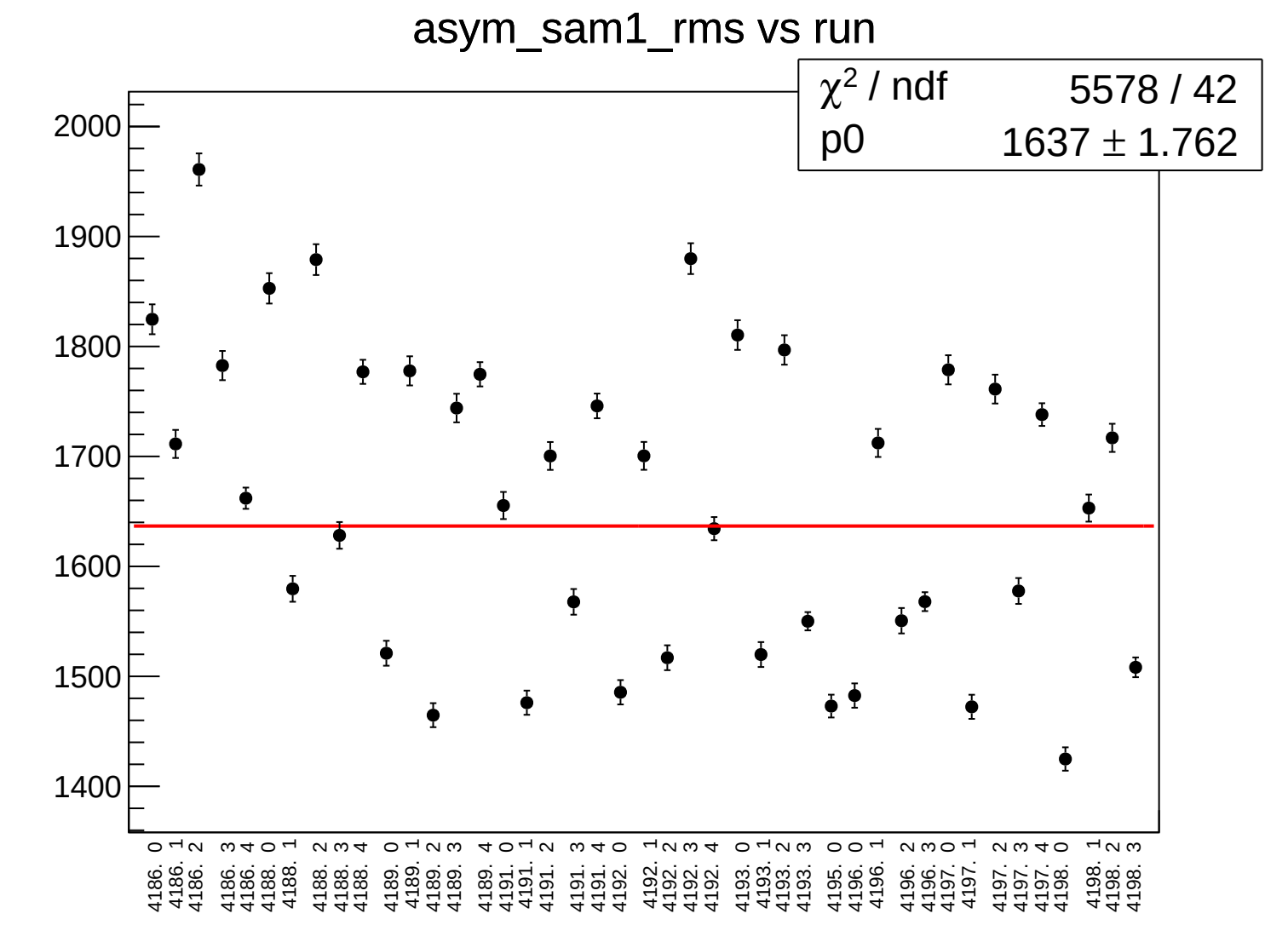

yield_bpm16X_rms vs run
χ² / ndf 1.108e+05 / 42
p0 0.003984 ± 4.576e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

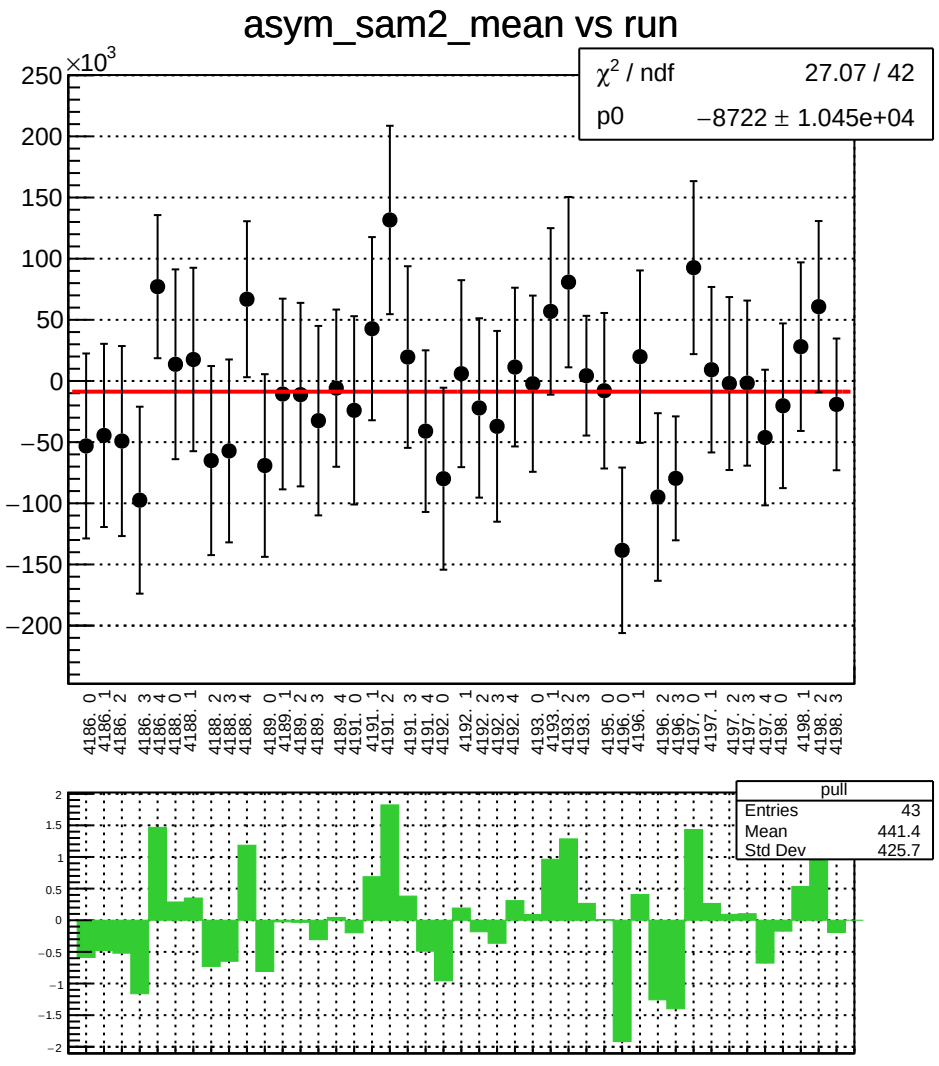

yield_bpm16Y_mean vs run
χ² / ndf 1.947e+04 / 42
p0 −0.2821 ± 4.751e−06
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1104
Std Dev 1120
60
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean −0.4256
Std Dev 3.736
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

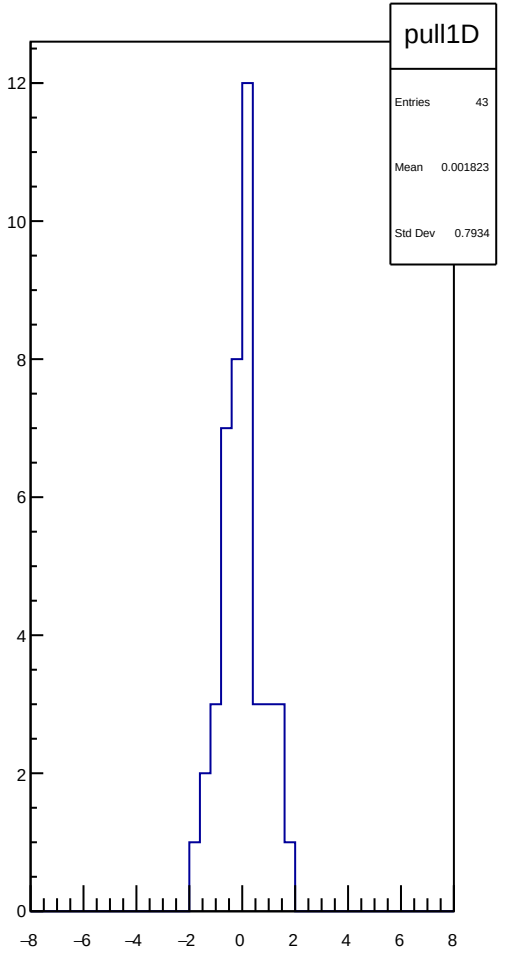

yield_bpm16Y_rms vs run
χ² / ndf 2.837e+04 / 42
p0 0.00308 ± 3.36e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

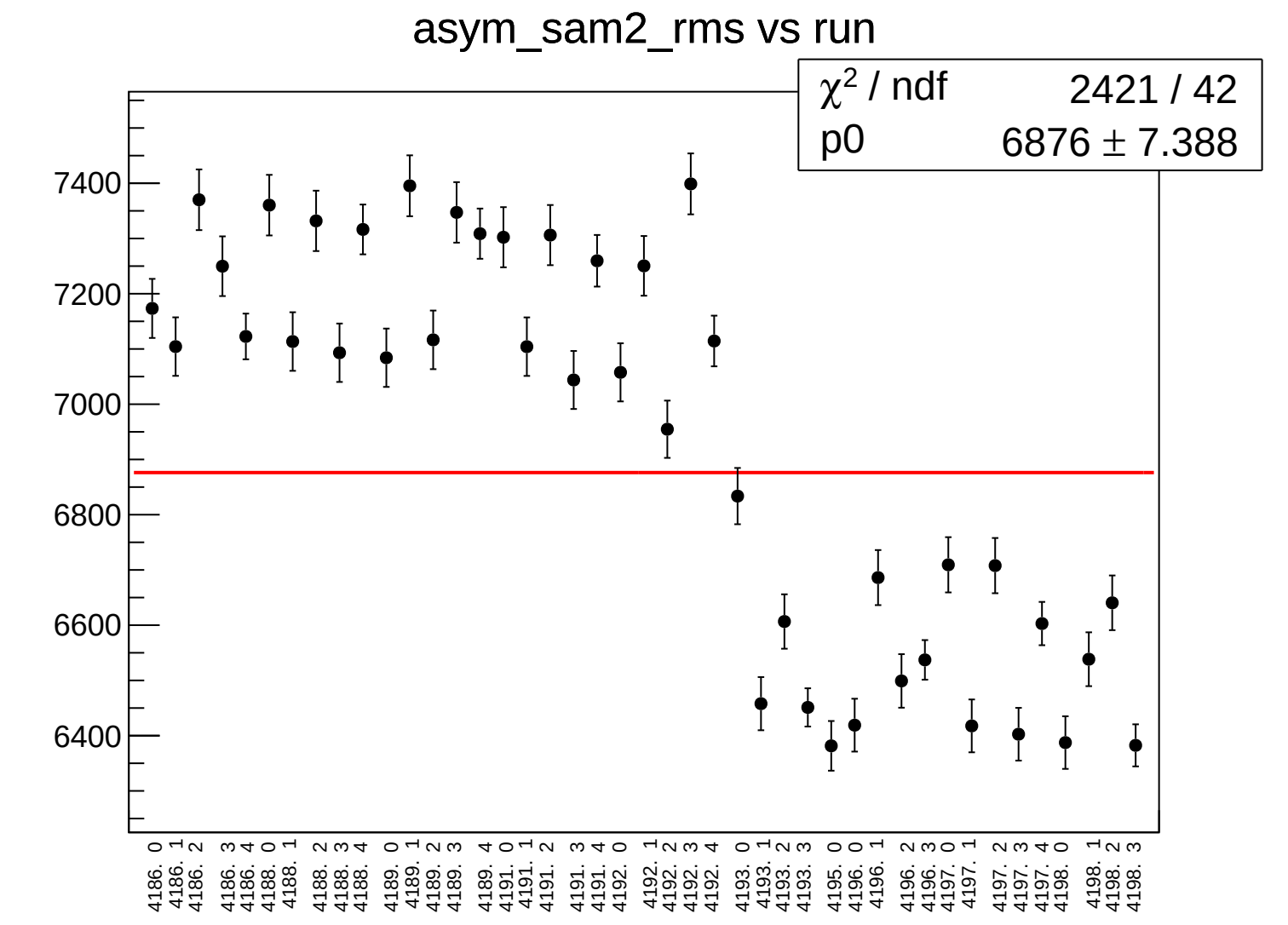

asym_sam1_mean vs run
χ² / ndf 32.22 / 42
p0 −613.7 ± 2491
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −170.6
Std Dev 179.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

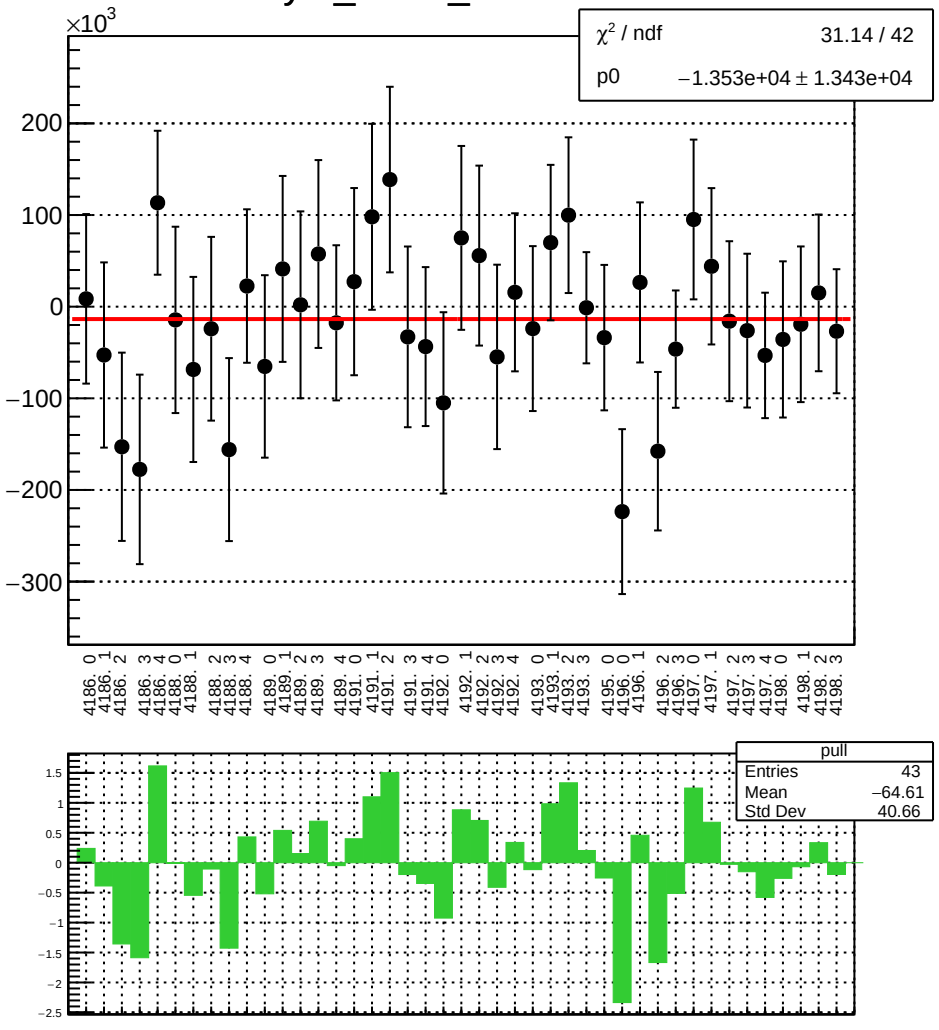

pull1D
Entries 43
Mean 0.004674
Std Dev 0.8657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

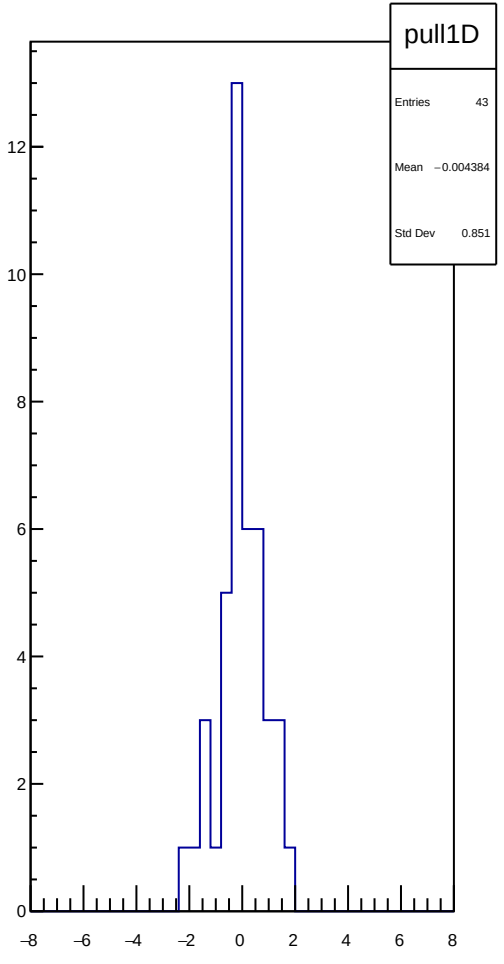

asym_sam1_rms vs run
χ² / ndf 5578 / 42
p0 1637 ± 1.762
2000
1900
1800
1700
1600
1500
1400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

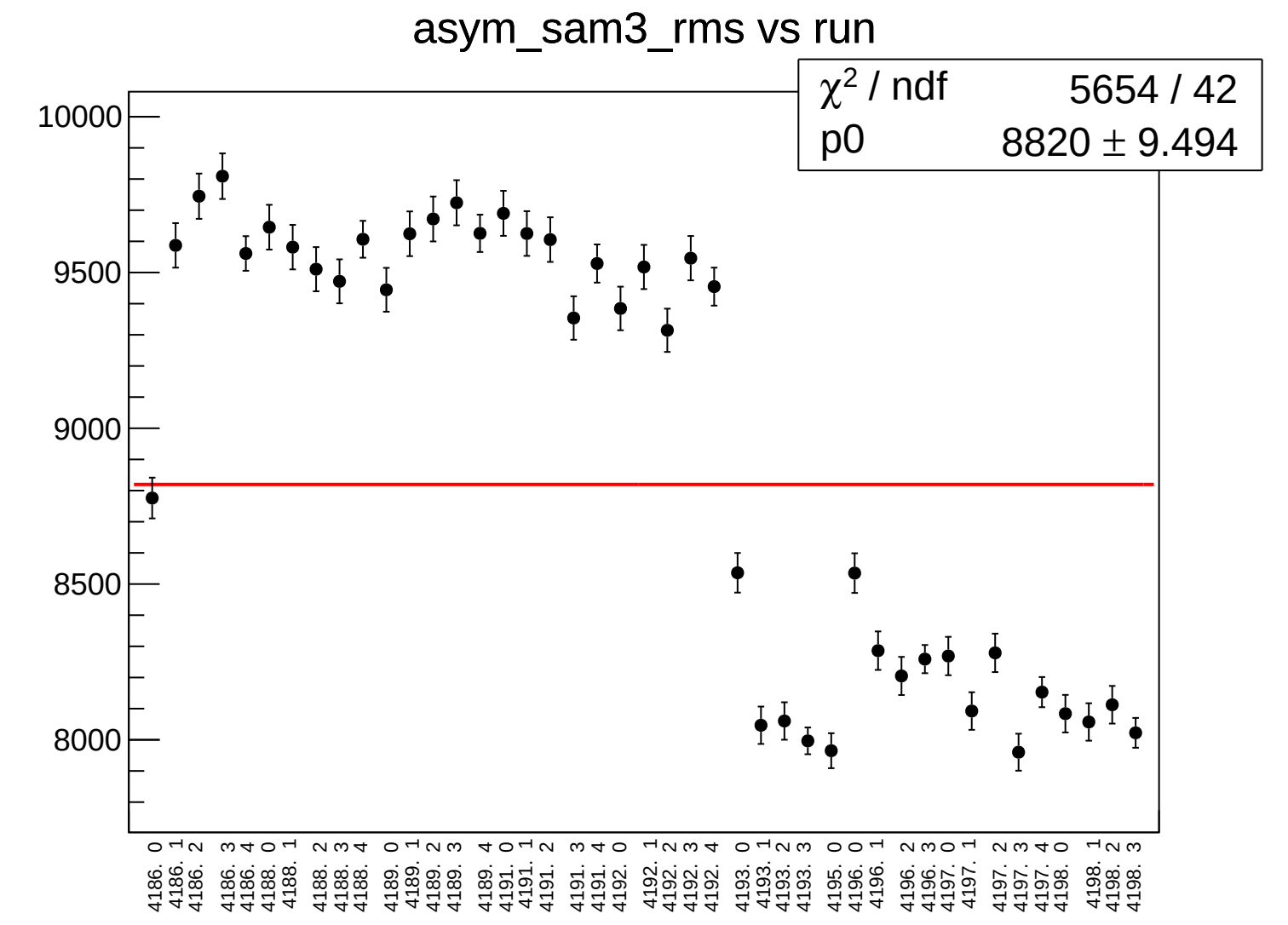

asym_sam2_mean vs run
×10^3
χ² / ndf 27.07 / 42
p0 −8722 ± 1.045e+04
pull
Entries 43
Mean 441.4
Std Dev 425.7

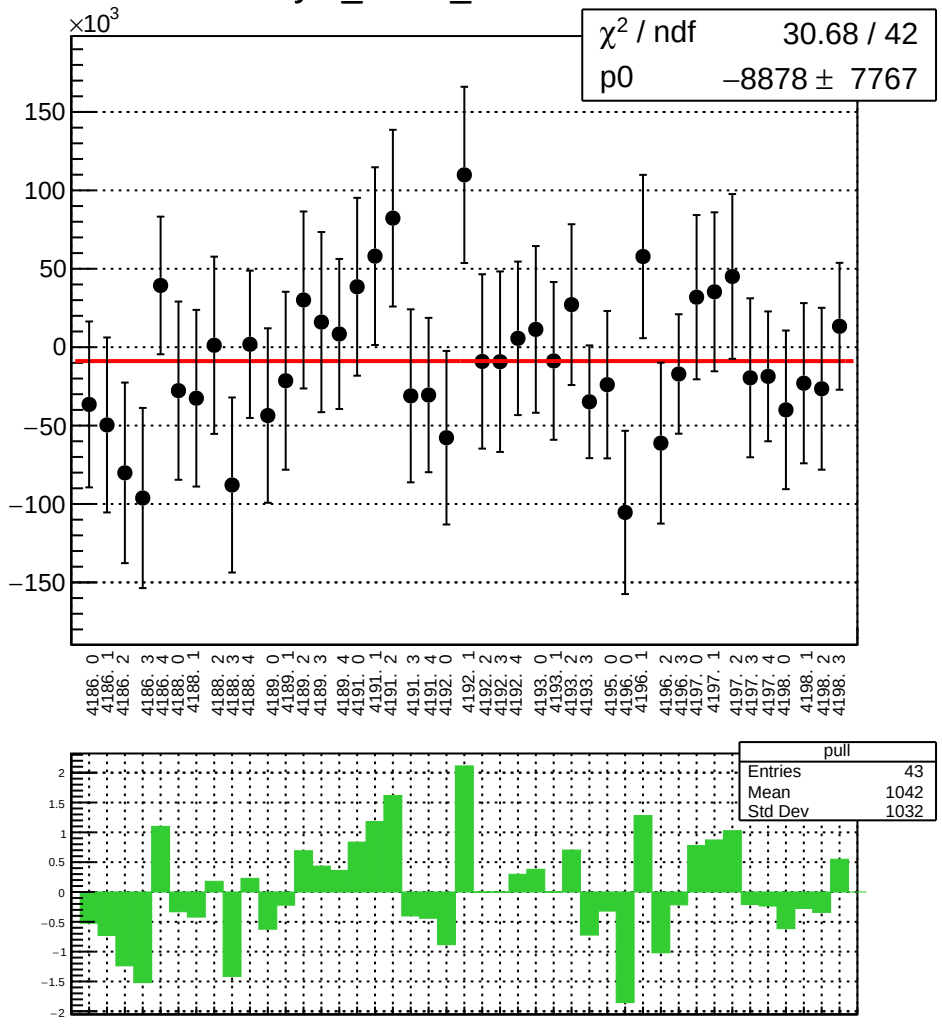

pull1D
Entries 43
Mean 0.001823
Std Dev 0.7934

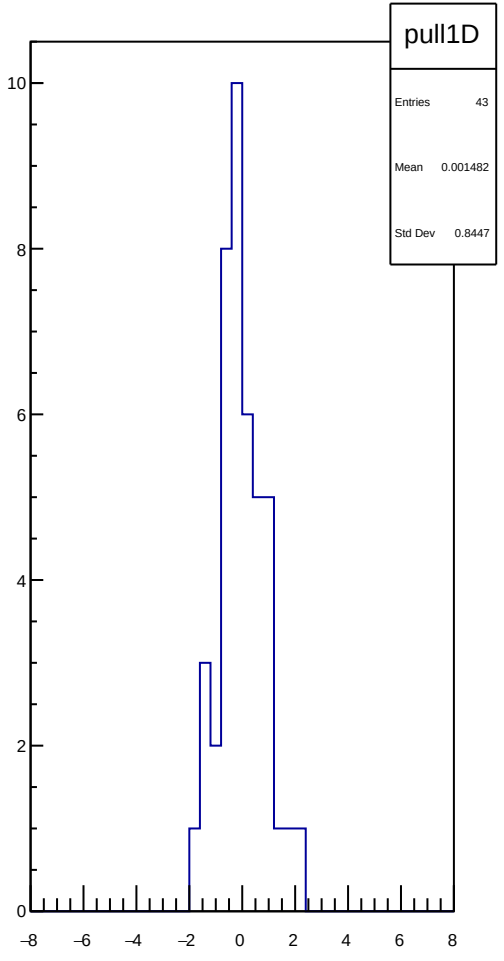

asym_sam2_rms vs run
χ² / ndf 2421 / 42
p0 6876 ± 7.388
7400
7200
7000
6800
6600
6400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

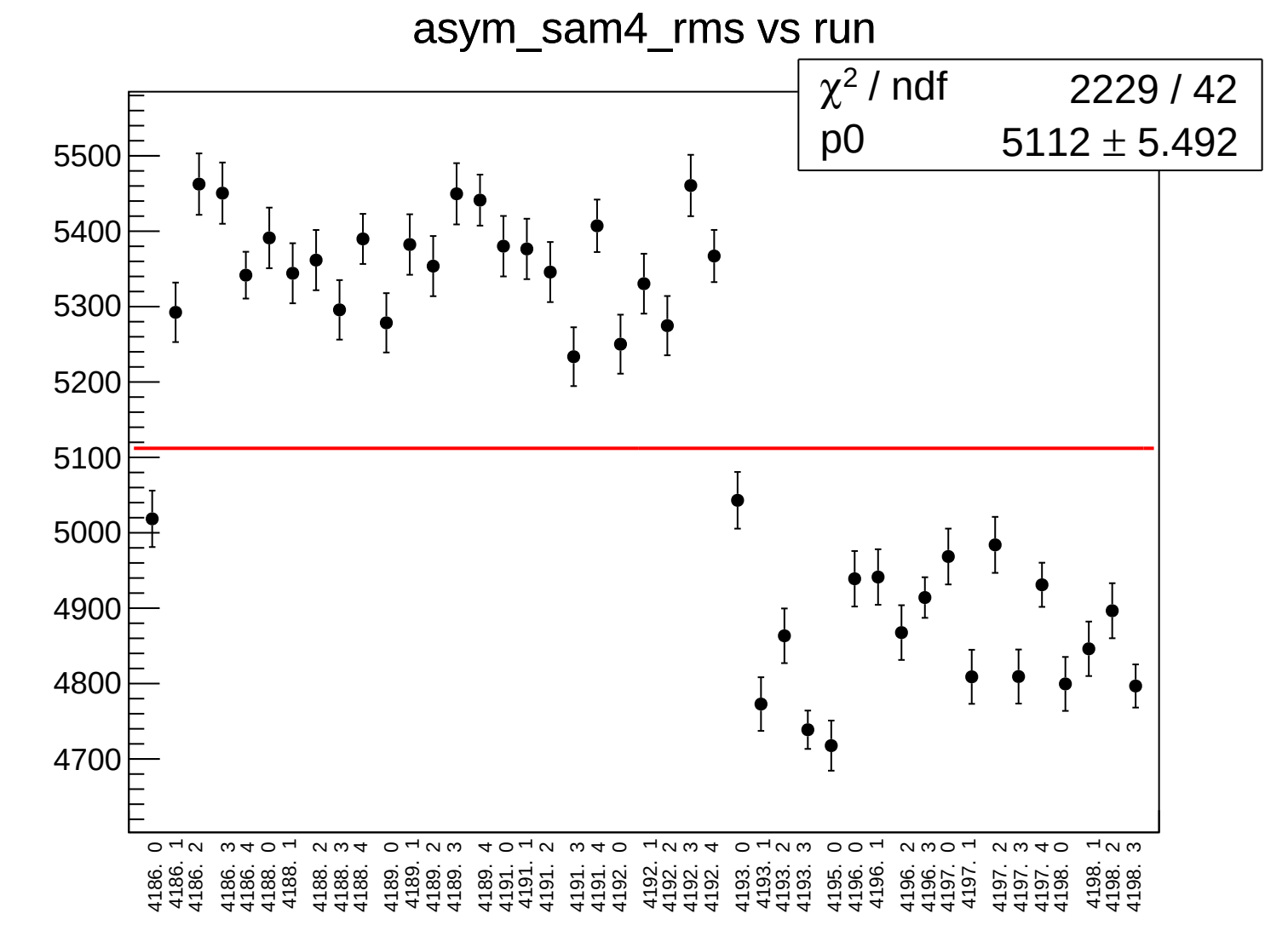

asym_sam3_mean vs run
×10^3
χ² / ndf 31.14 / 42
p0 −1.353e+04 ± 1.343e+04
200
100
0
−100
−200
−300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −64.61
Std Dev 40.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

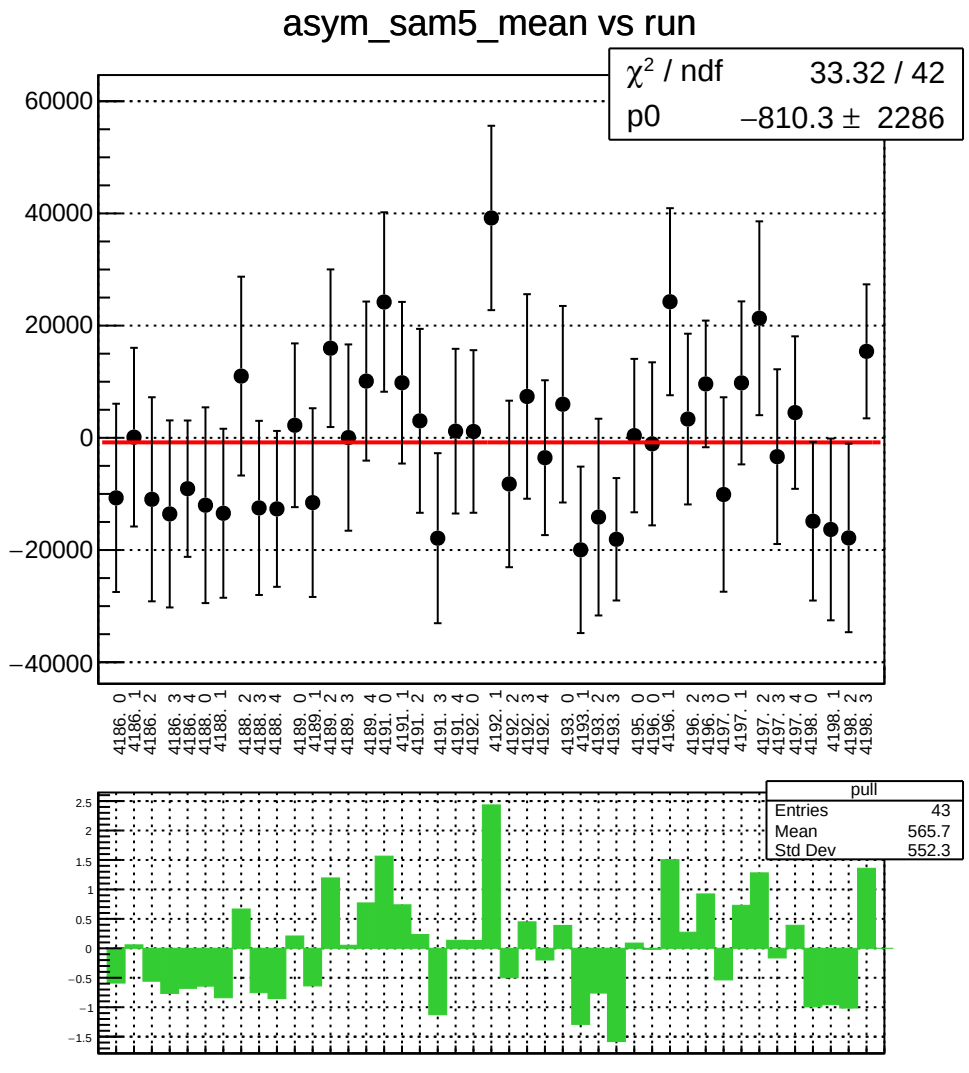

pull1D
Entries 43
Mean −0.004384
Std Dev 0.851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

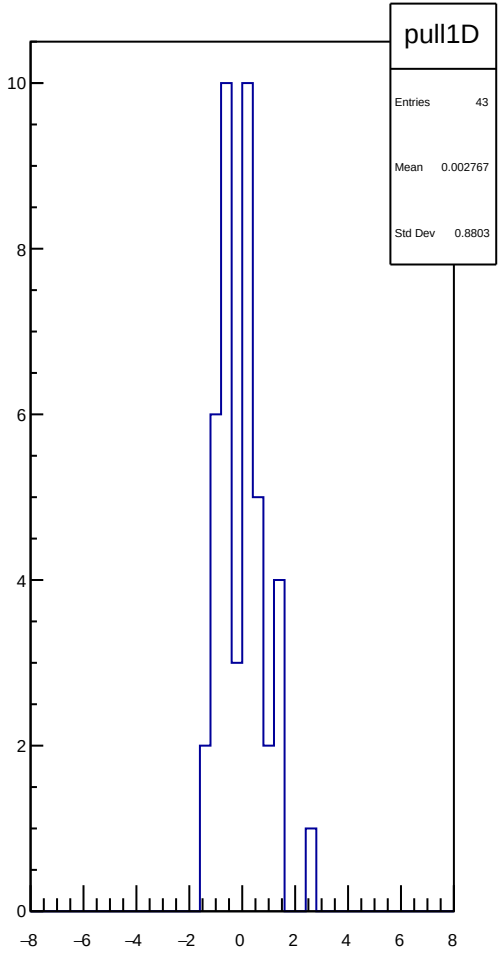

asym_sam3_rms vs run
χ² / ndf 5654 / 42
p0 8820 ± 9.494
10000
9500
9000
8500
8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

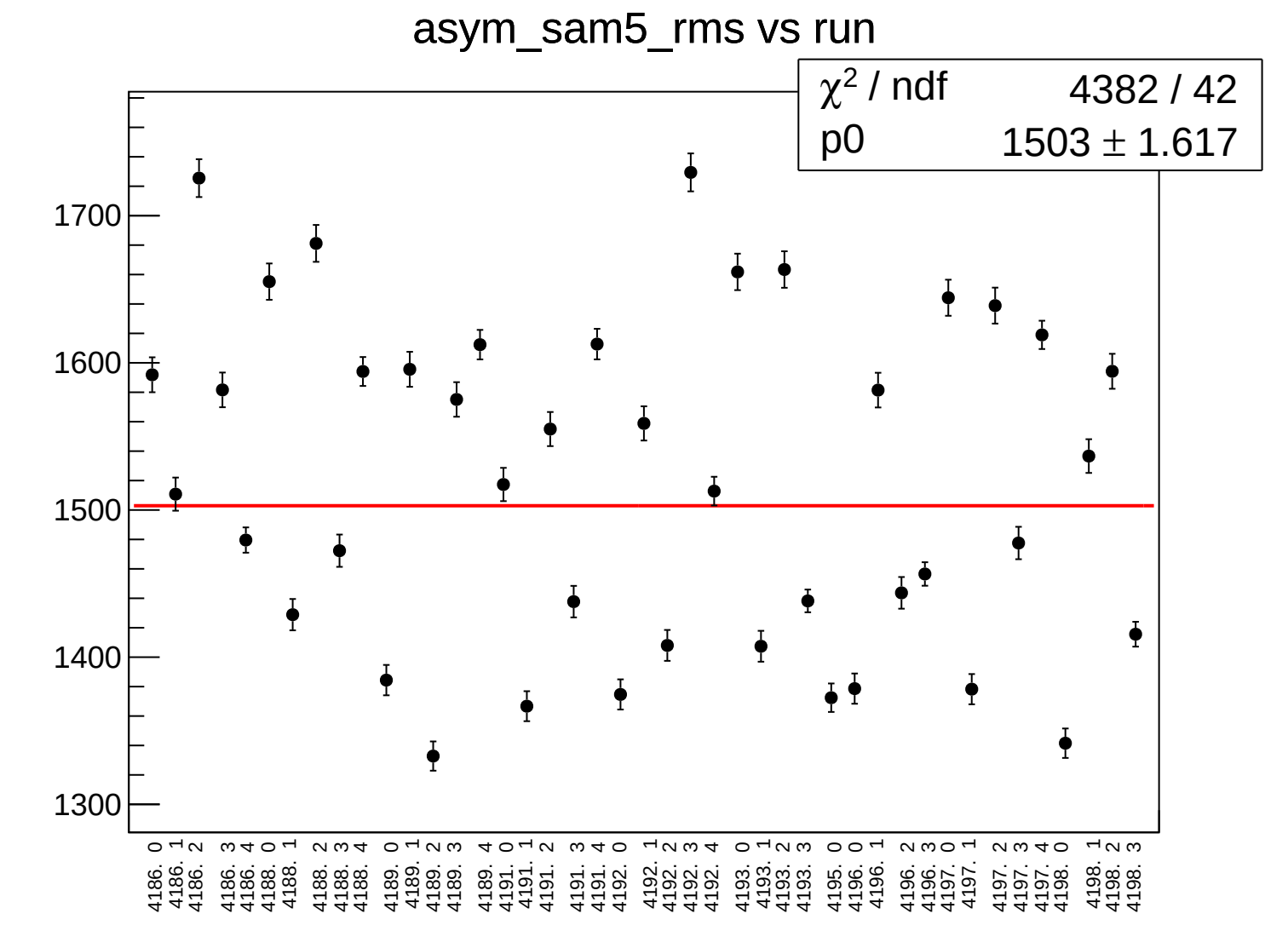

asym_sam4_mean vs run
χ^2 / ndf 30.68 / 42
p0 −8878 ± 7767
×10^3
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1042
Std Dev 1032
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

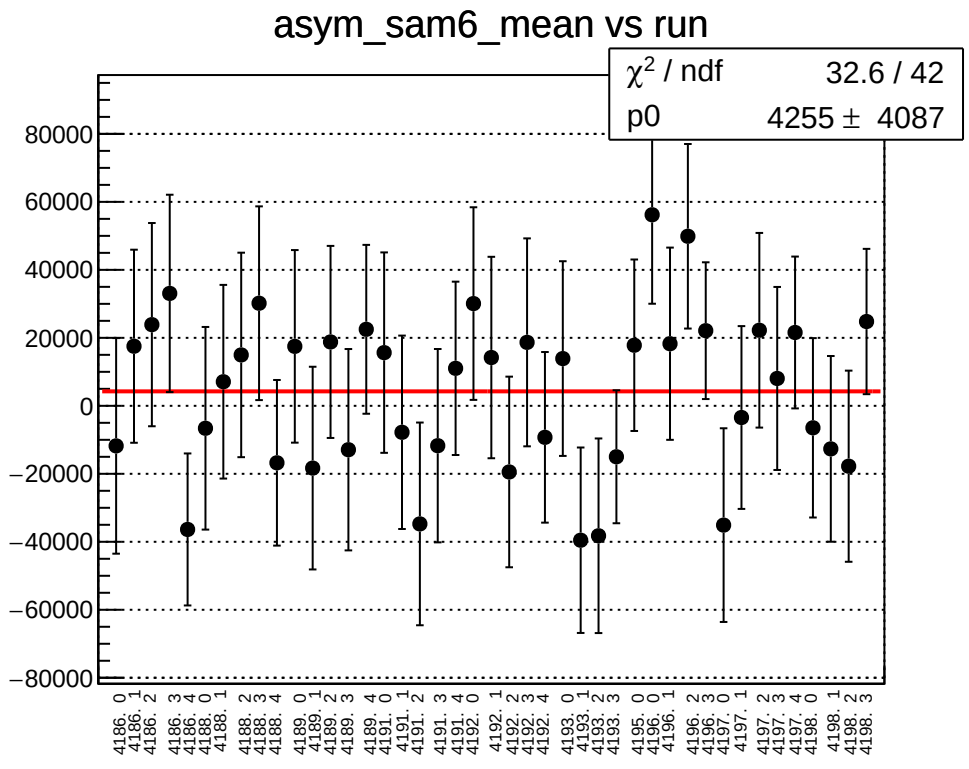

pull1D
Entries 43
Mean 0.001482
Std Dev 0.8447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

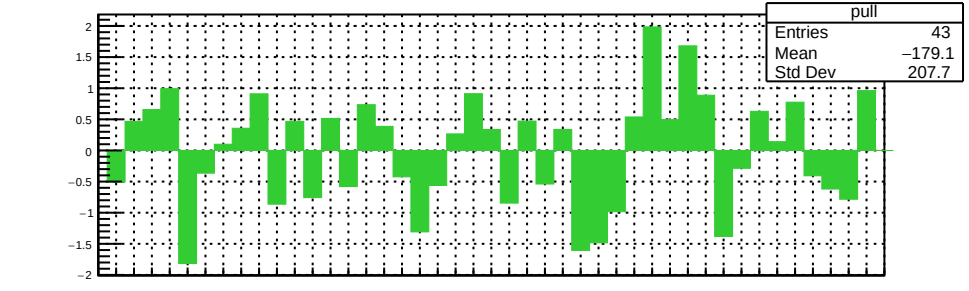

asym_sam4_rms vs run
χ² / ndf 2229 / 42
p0 5112 ± 5.492
5500
5400
5300
5200
5100
5000
4900
4800
4700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

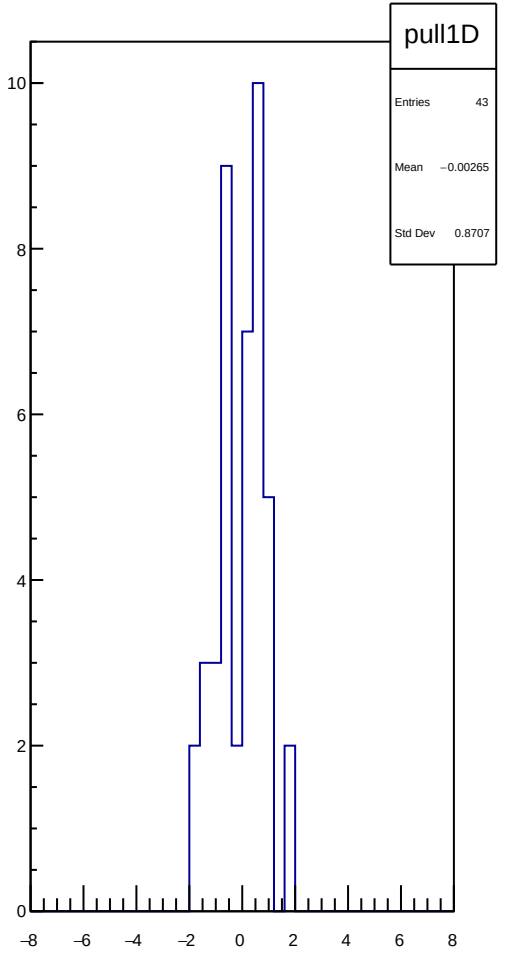

asym_sam5_mean vs run
χ² / ndf 33.32 / 42
p0 −810.3 ± 2286
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 565.7
Std Dev 552.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

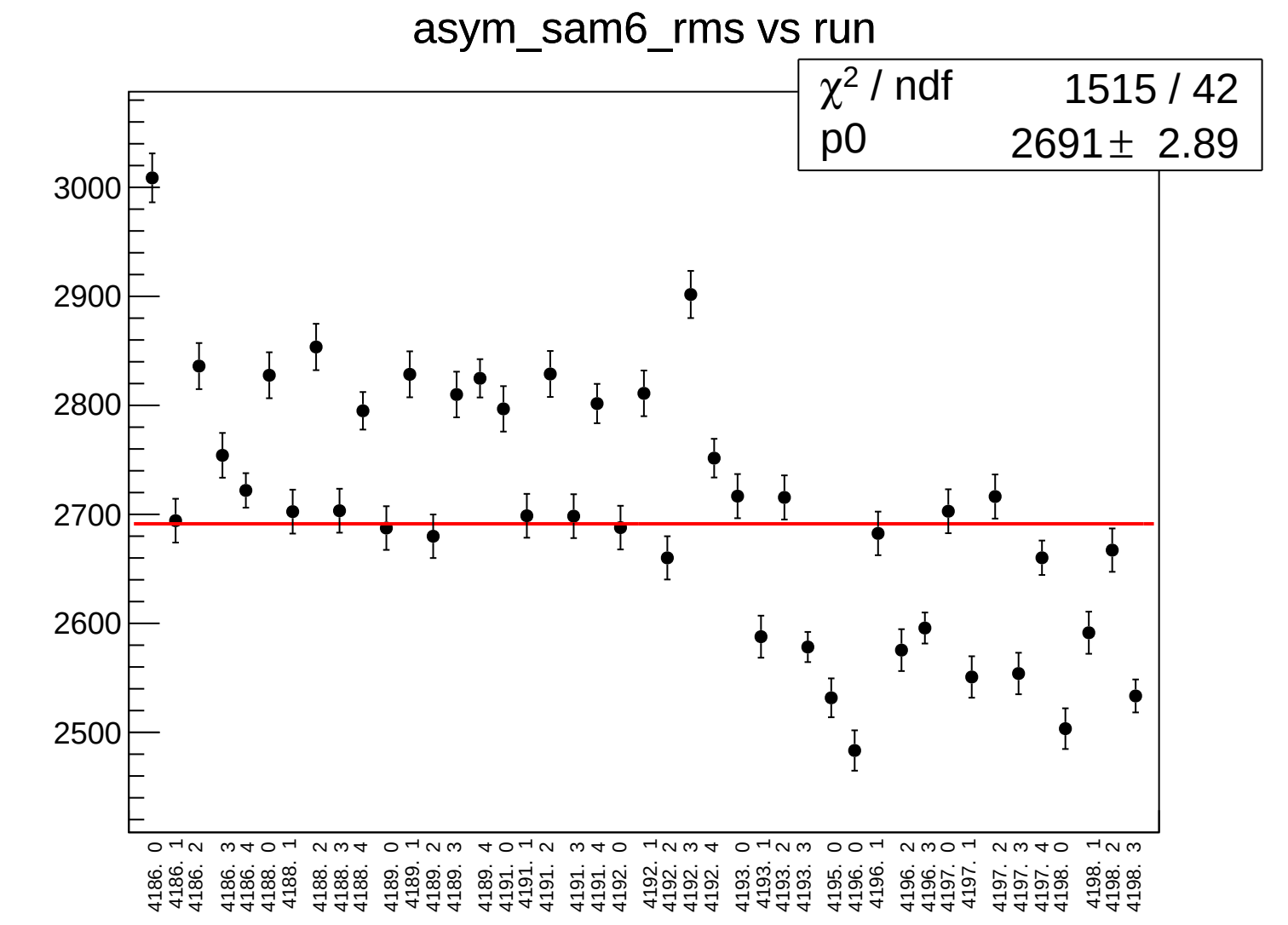

pull1D
Entries 43
Mean 0.002767
Std Dev 0.8803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

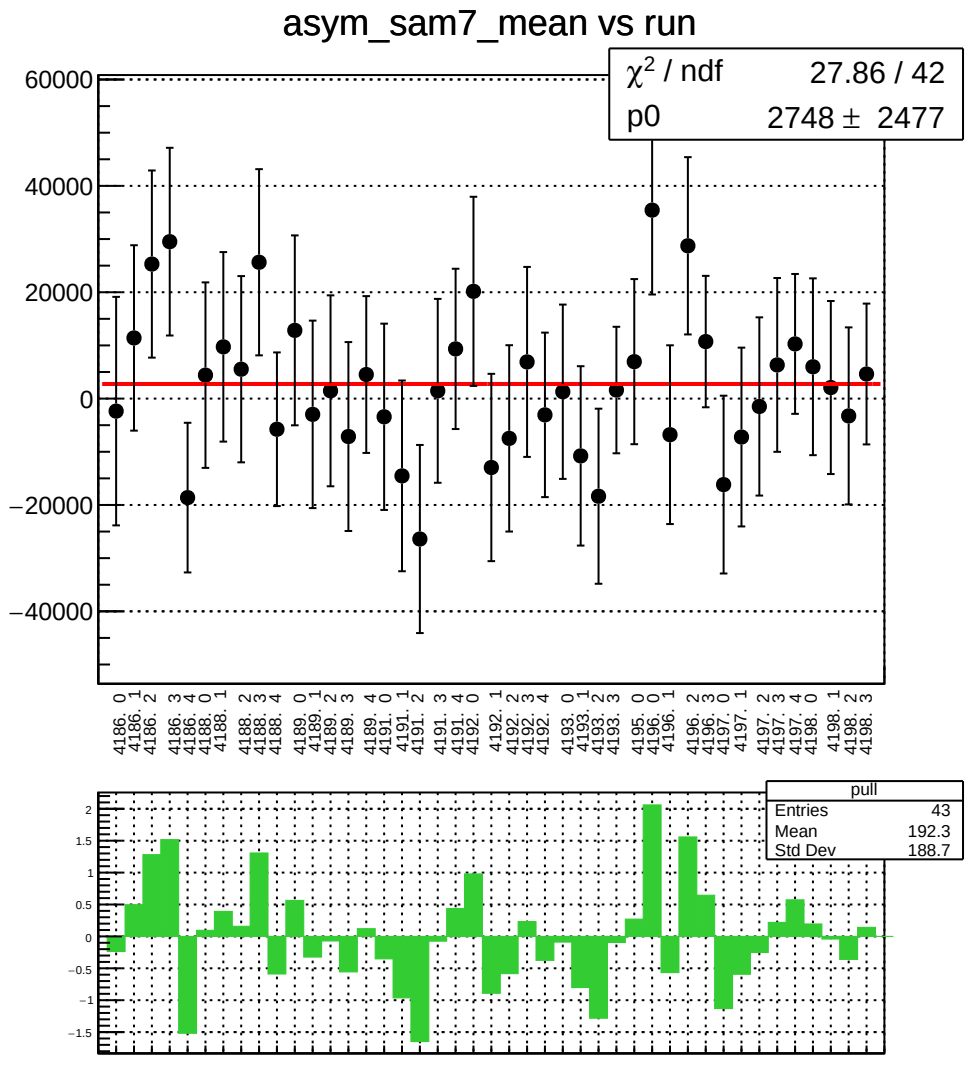

asym_sam5_rms vs run
χ² / ndf 4382 / 42
p0 1503 ± 1.617
1700
1600
1500
1400
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

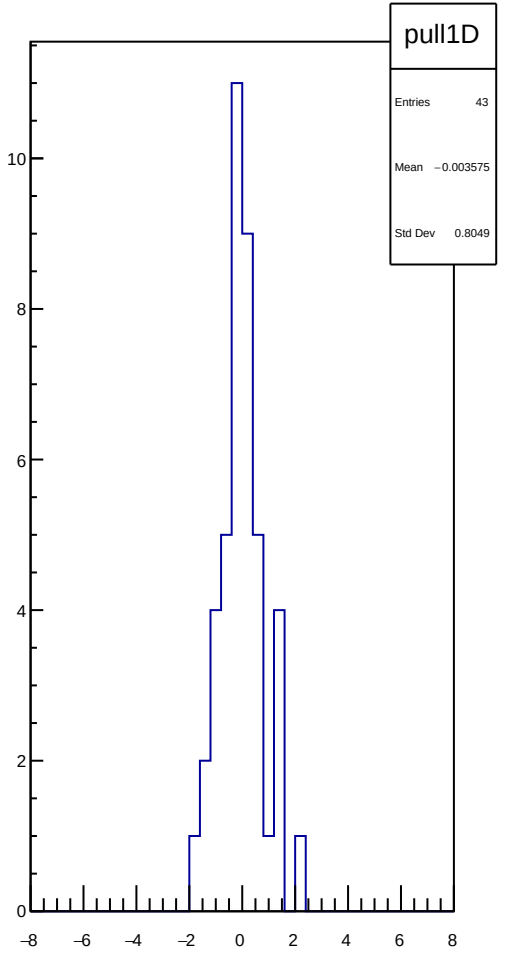

asym_sam6_mean vs run
χ² / ndf 32.6 / 42
p0 4255 ± 4087
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

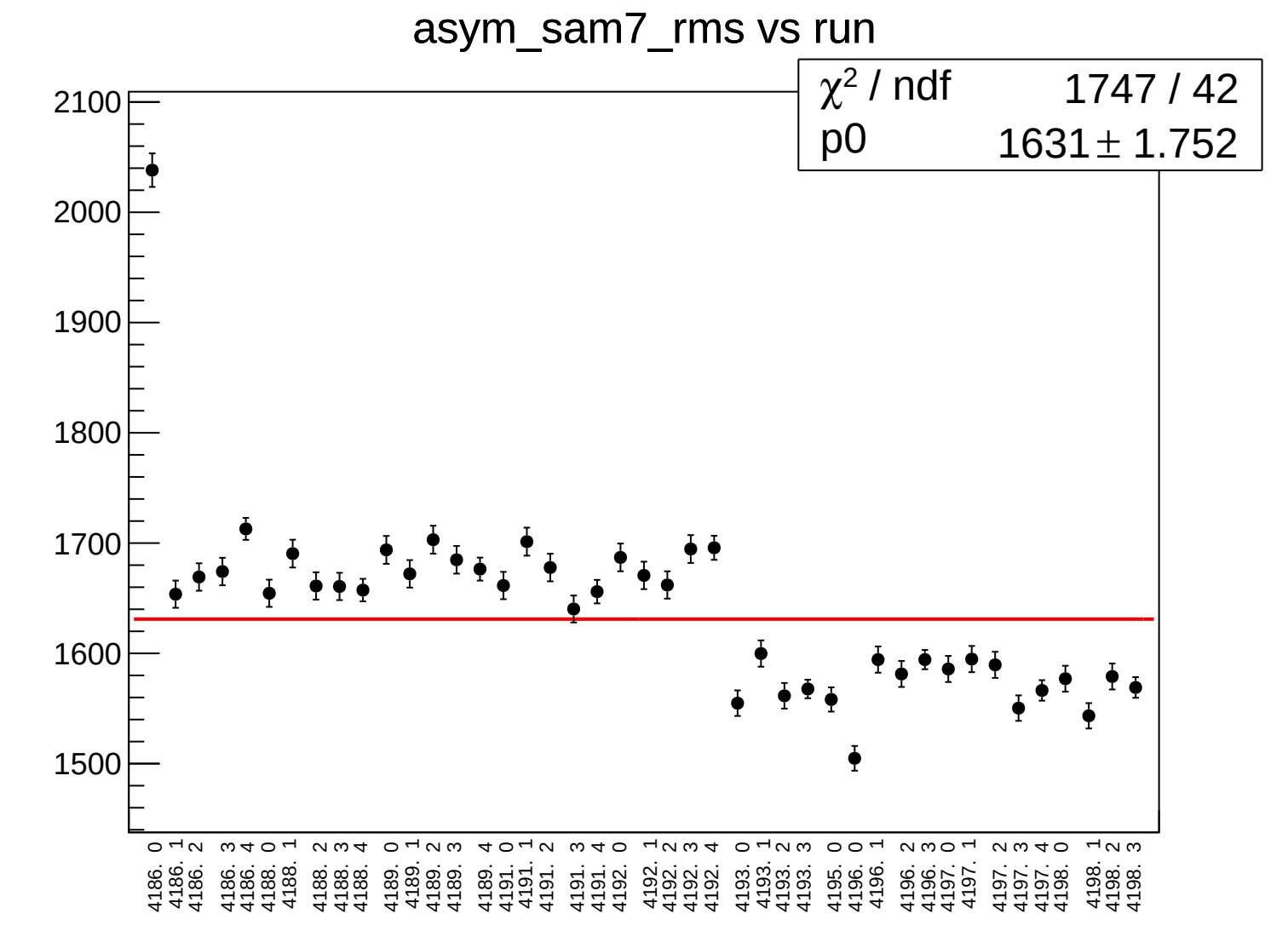

pull
Entries 43
Mean −179.1
Std Dev 207.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

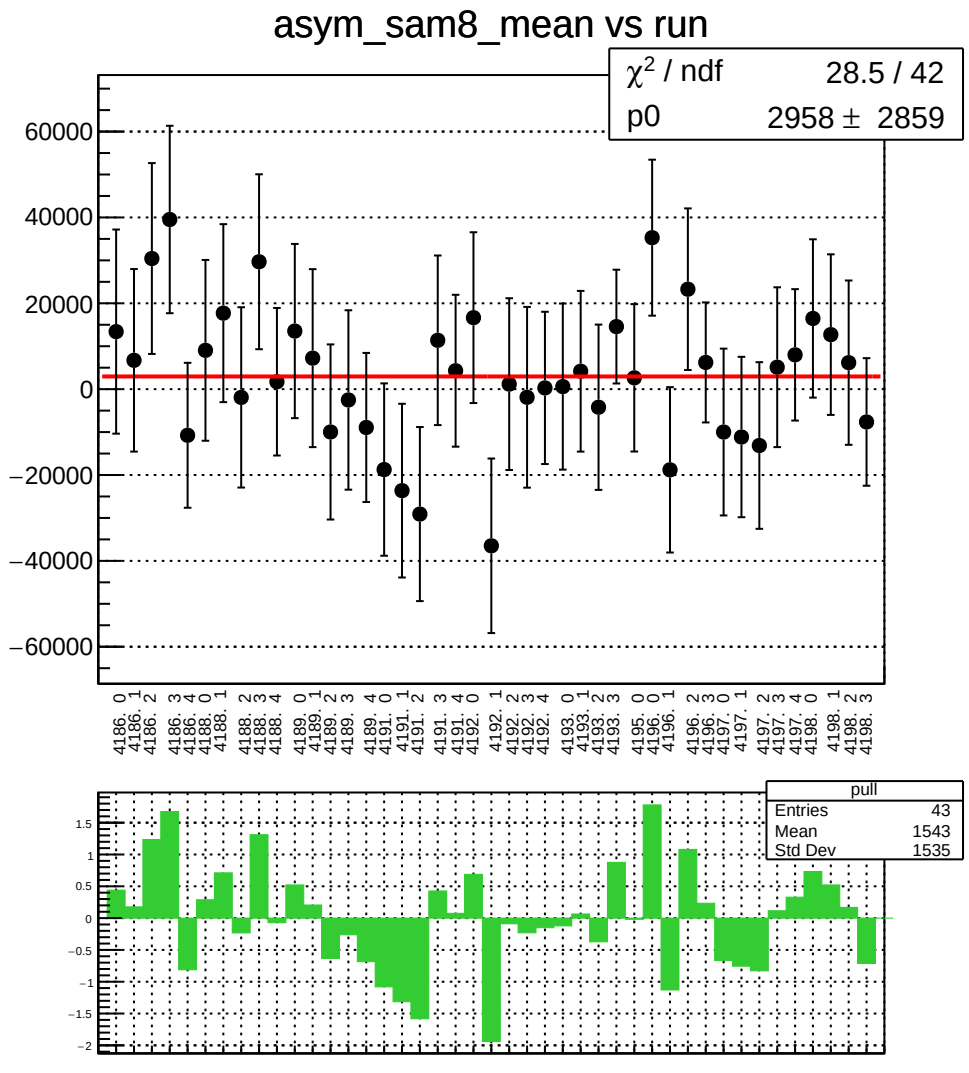

pull1D
Entries 43
Mean −0.00265
Std Dev 0.8707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

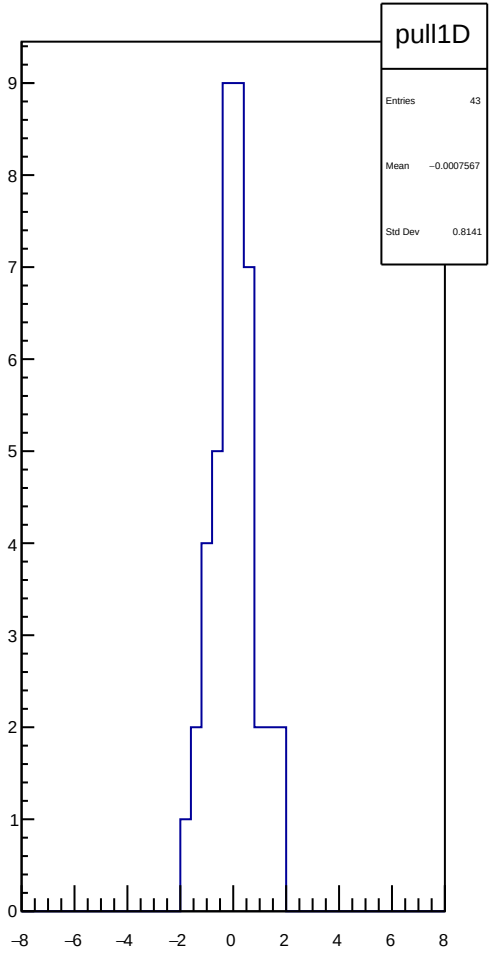

asym_sam6_rms vs run
χ² / ndf 1515 / 42
p0 2691 ± 2.89
3000
2900
2800
2700
2600
2500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

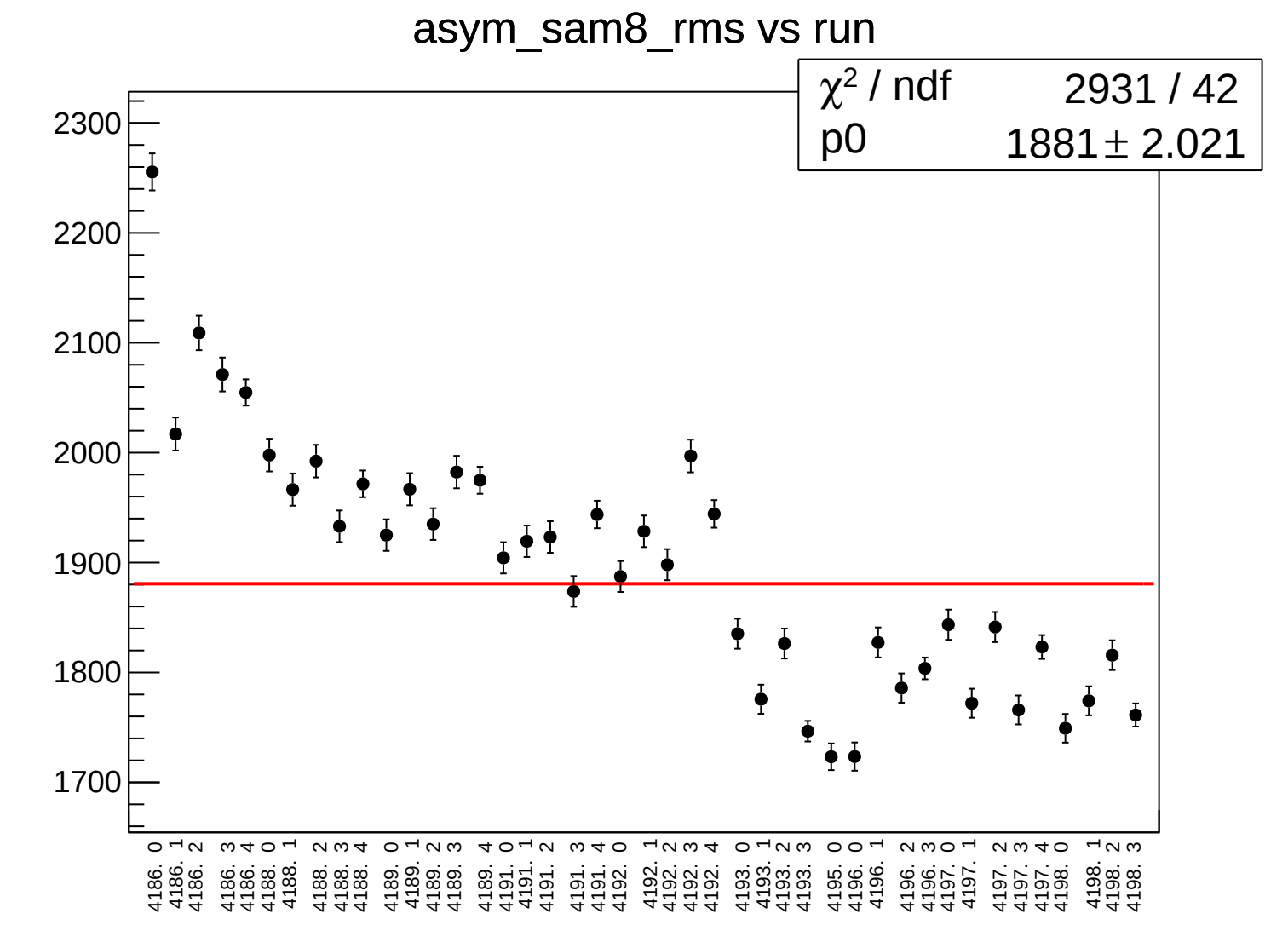

asym_sam7_mean vs run
χ² / ndf 27.86 / 42
p0 2748 ± 2477
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 192.3
Std Dev 188.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

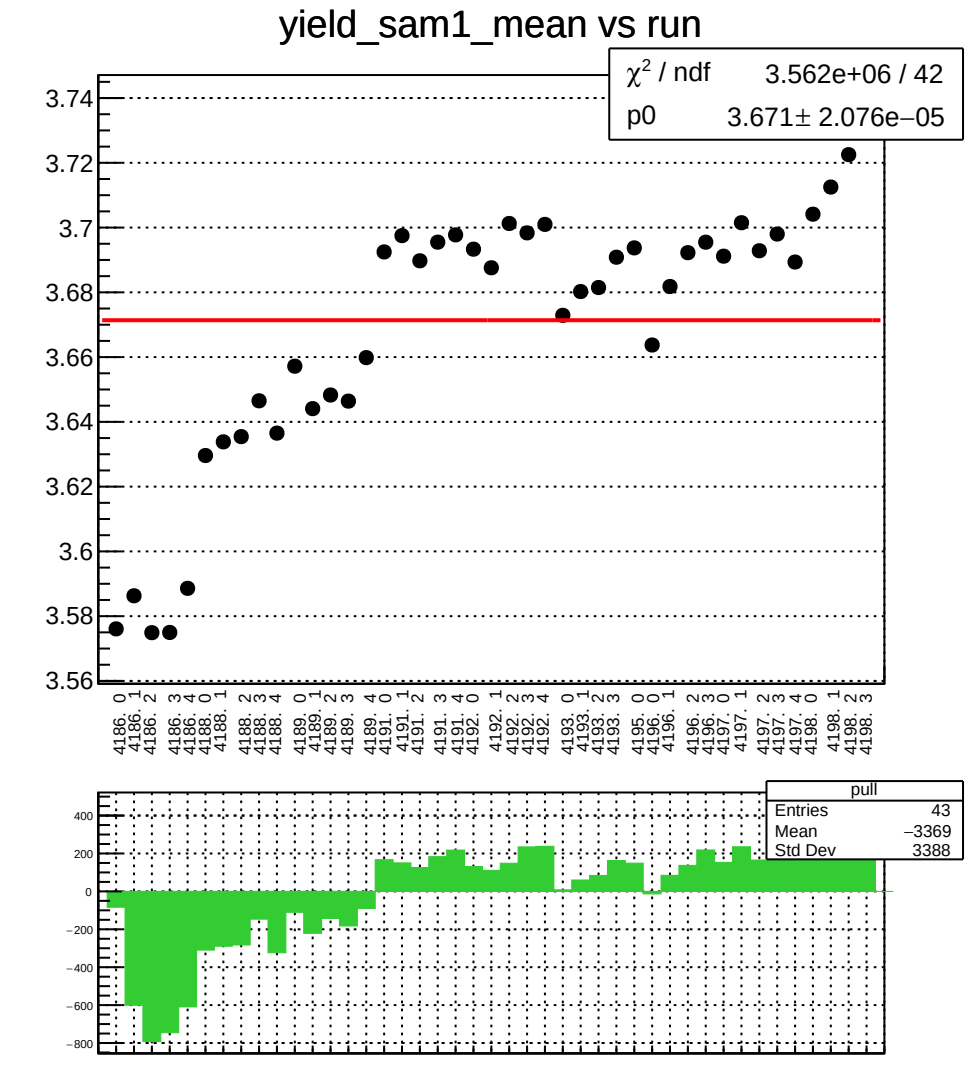

pull1D
Entries 43
Mean −0.003575
Std Dev 0.8049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

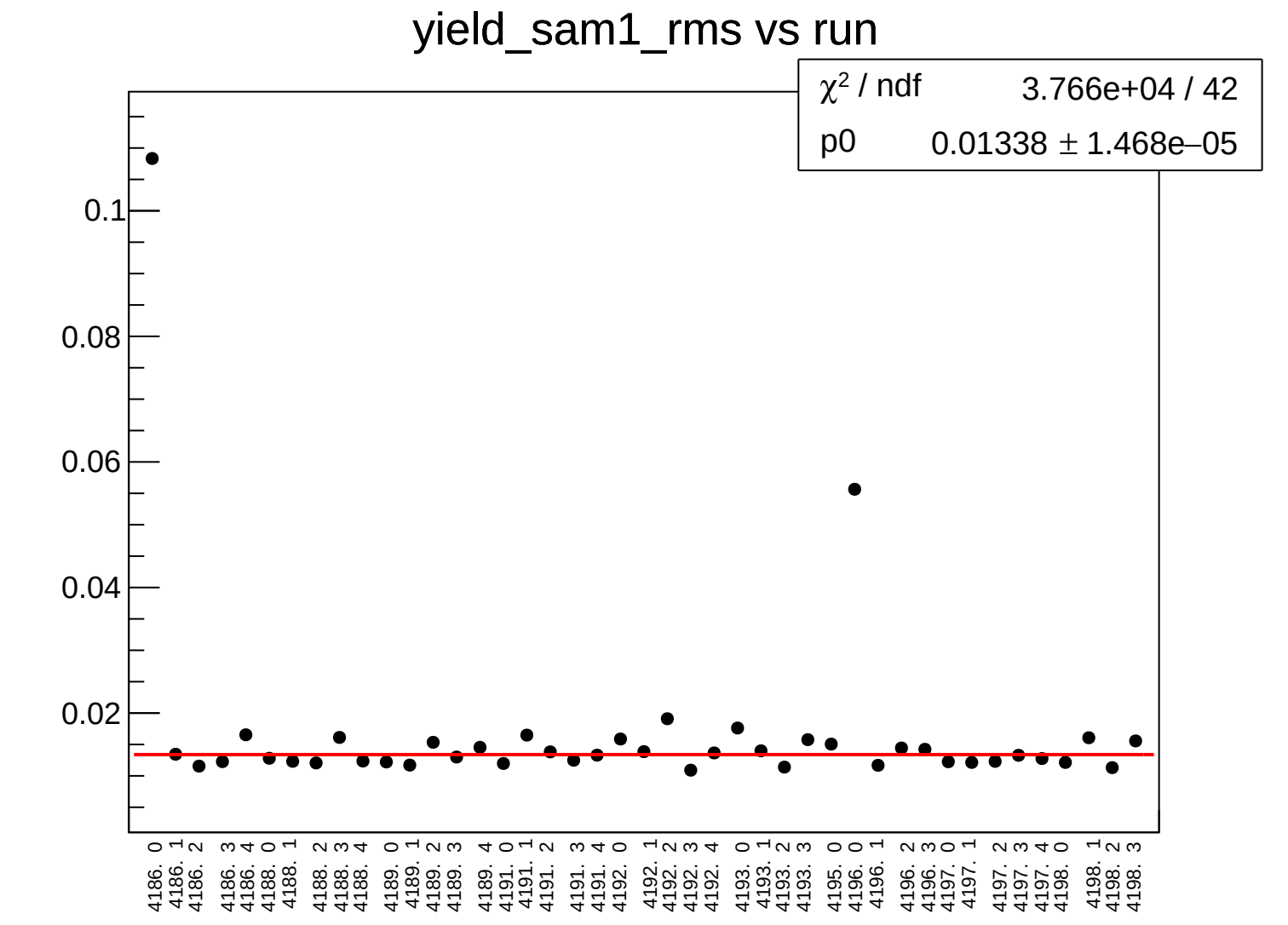

asym_sam7_rms vs run
χ² / ndf 1747 / 42
p0 1631 ± 1.752
2100
2000
1900
1800
1700
1600
1500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

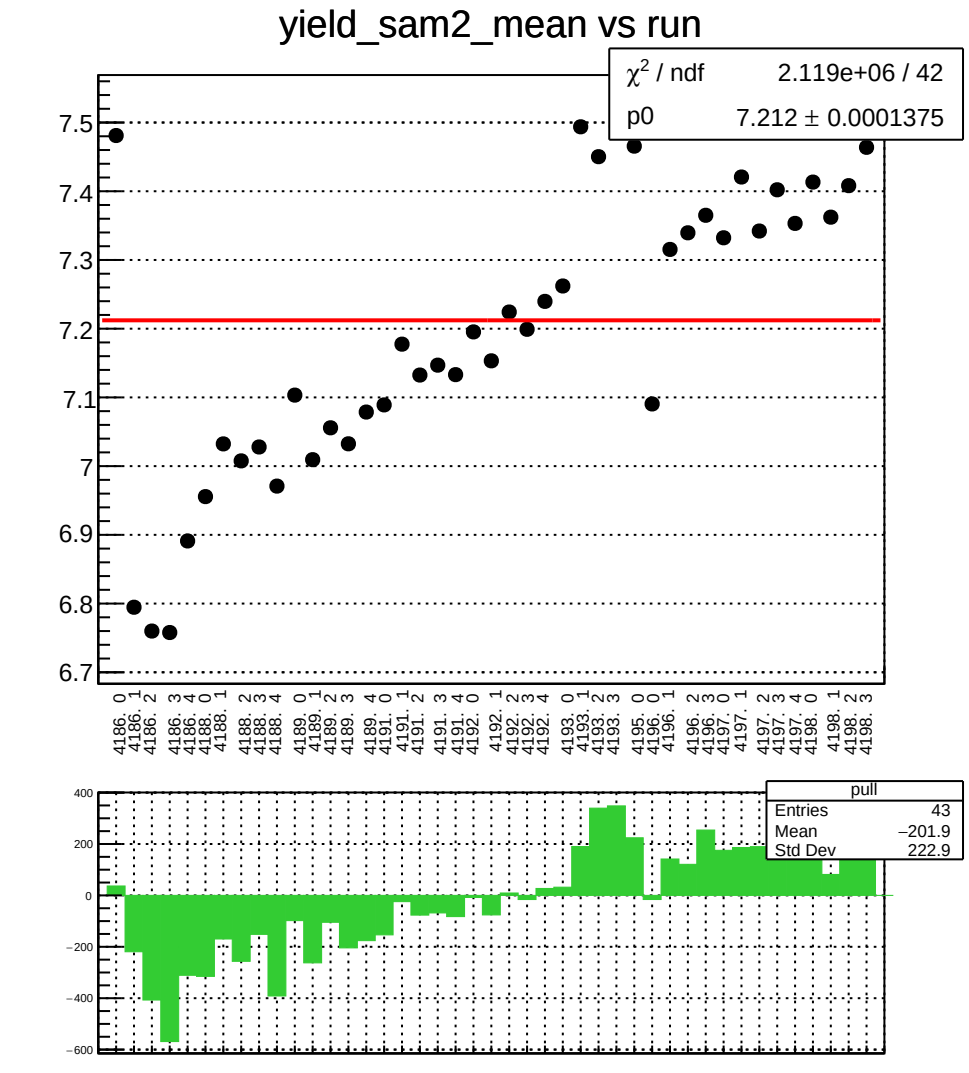

asym_sam8_mean vs run
χ² / ndf 28.5 / 42
p0 2958 ± 2859
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1543
Std Dev 1535
1.5
1
0.5
0
−0.5
−1
−1.5
−2

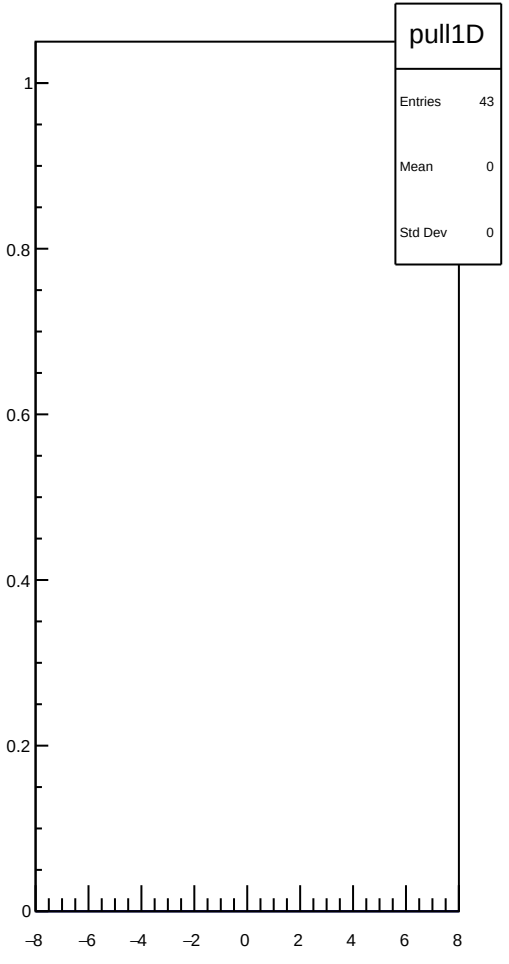

pull1D
Entries 43
Mean −0.0007567
Std Dev 0.8141
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

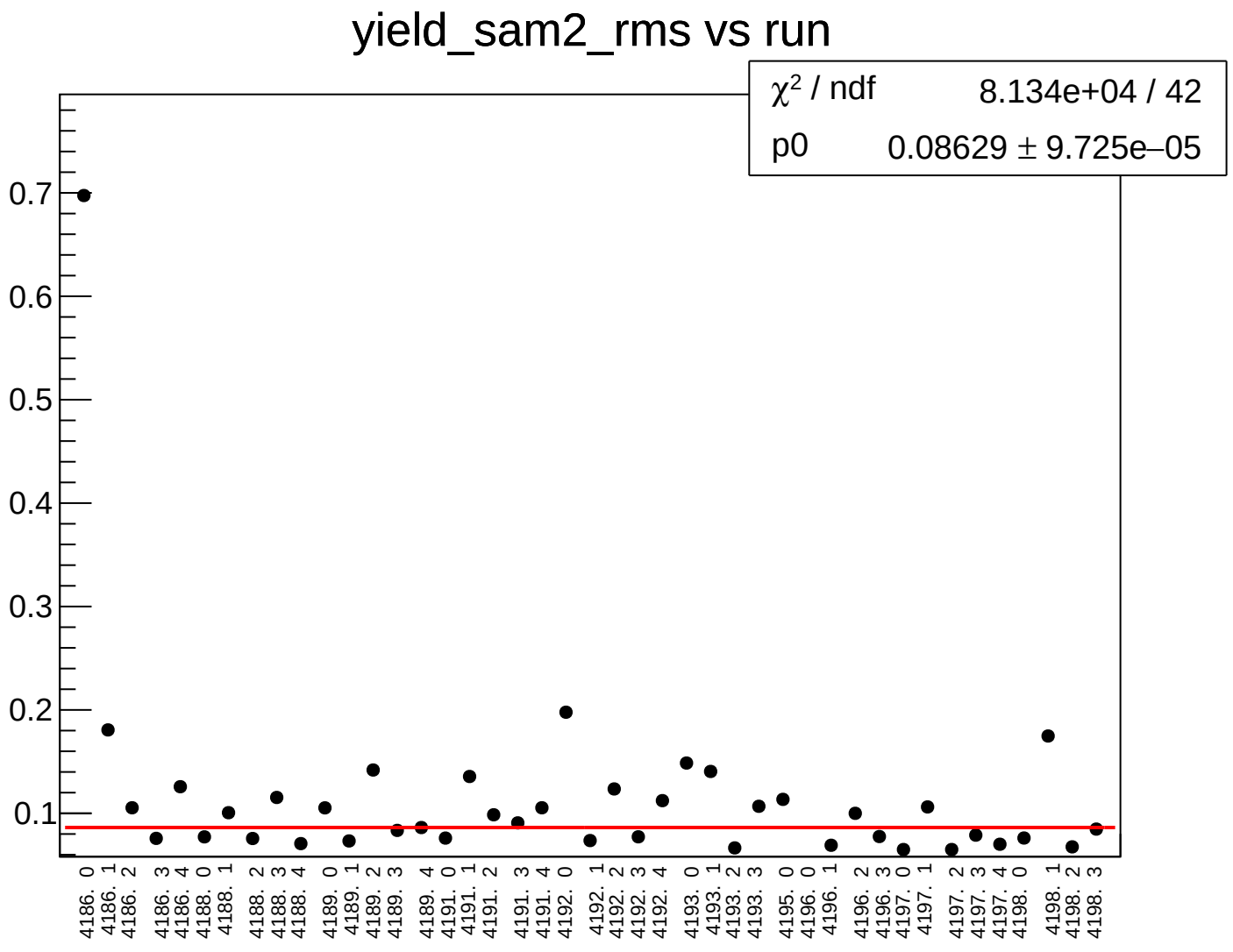

asym_sam8_rms vs run
χ² / ndf 2931 / 42
p0 1881 ± 2.021
2300
2200
2100
2000
1900
1800
1700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

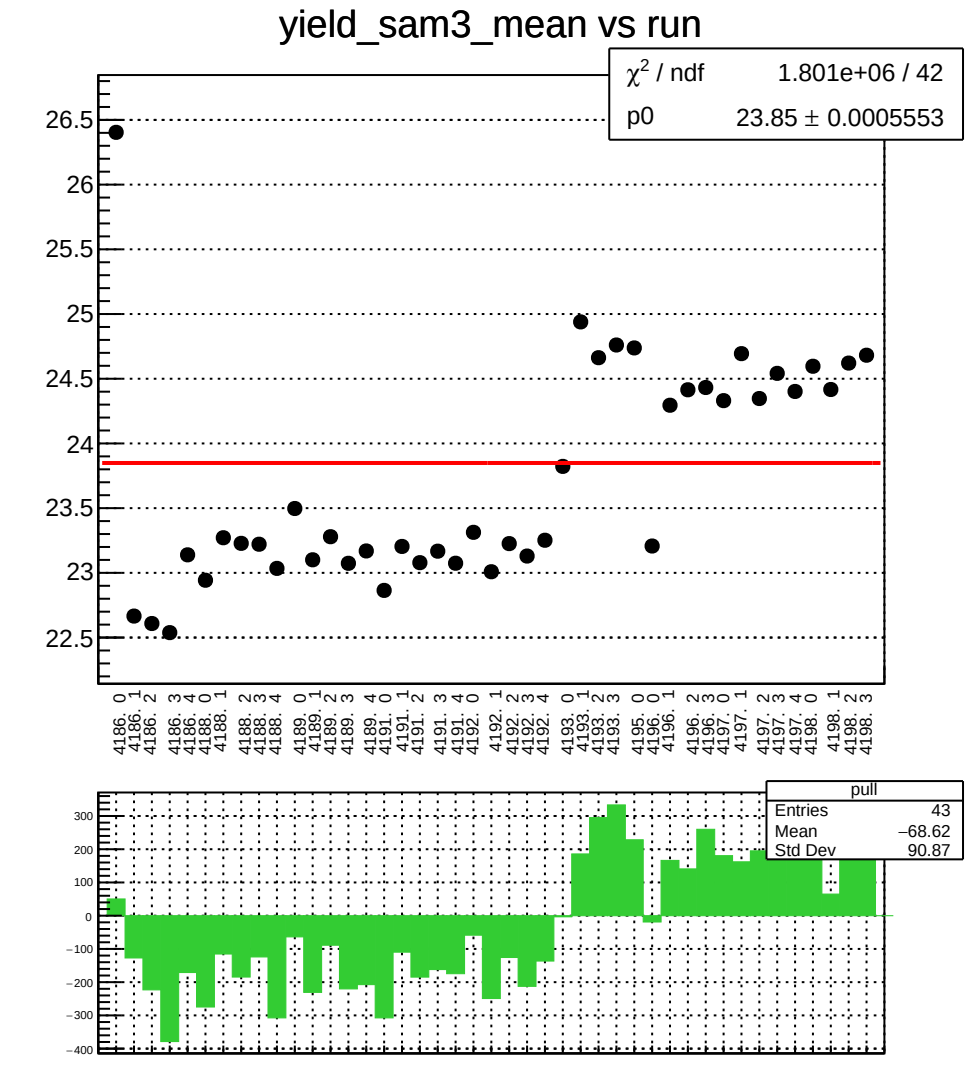

yield_sam1_mean vs run
χ² / ndf 3.562e+06 / 42
p0 3.671± 2.076e−05
3.74
3.72
3.7
3.68
3.66
3.64
3.62
3.6
3.58
3.56
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −3369
Std Dev 3388
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

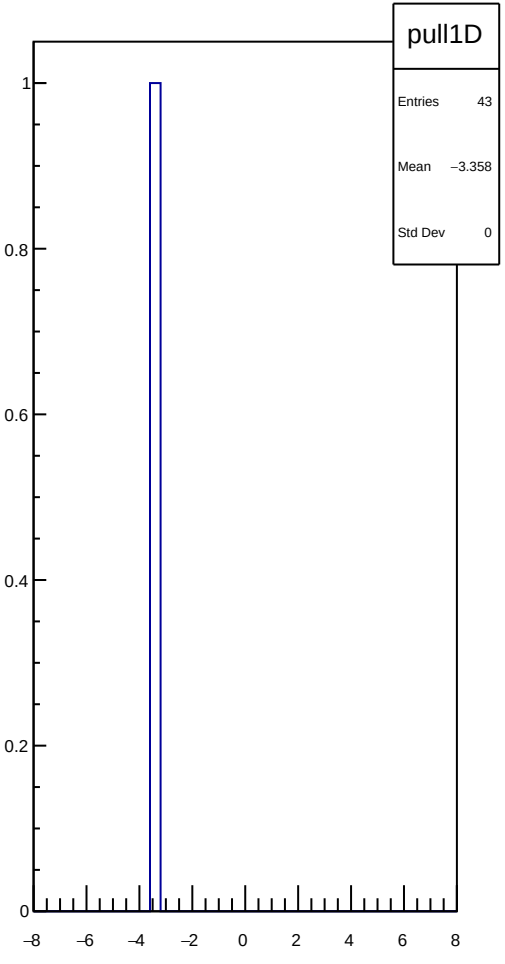

yield_sam1_rms vs run
χ² / ndf 3.766e+04 / 42
p0 0.01338 ± 1.468e–05
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

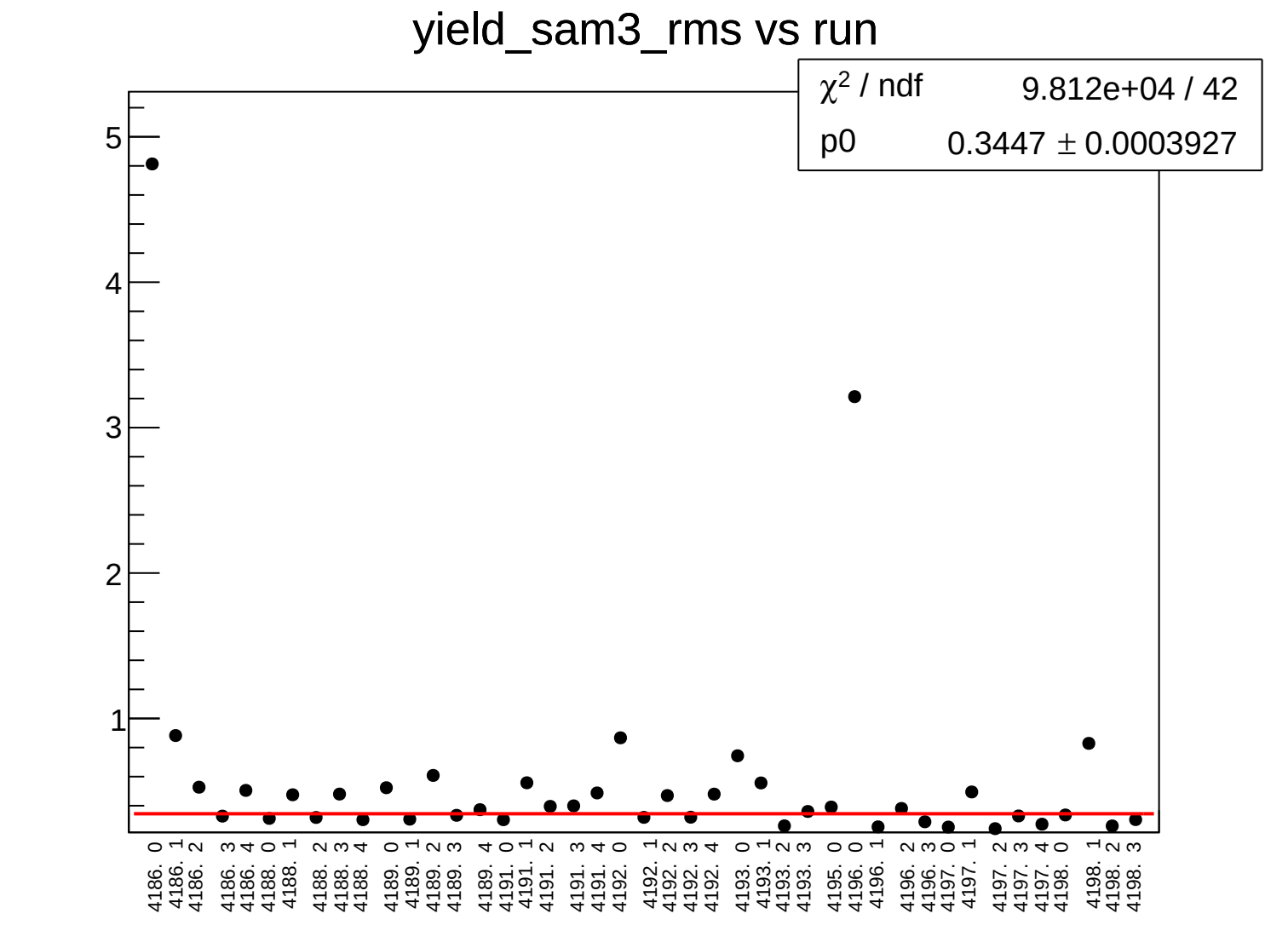

yield_sam2_mean vs run
χ² / ndf 2.119e+06 / 42
p0 7.212 ± 0.0001375
pull
Entries 43
Mean −201.9
Std Dev 222.9

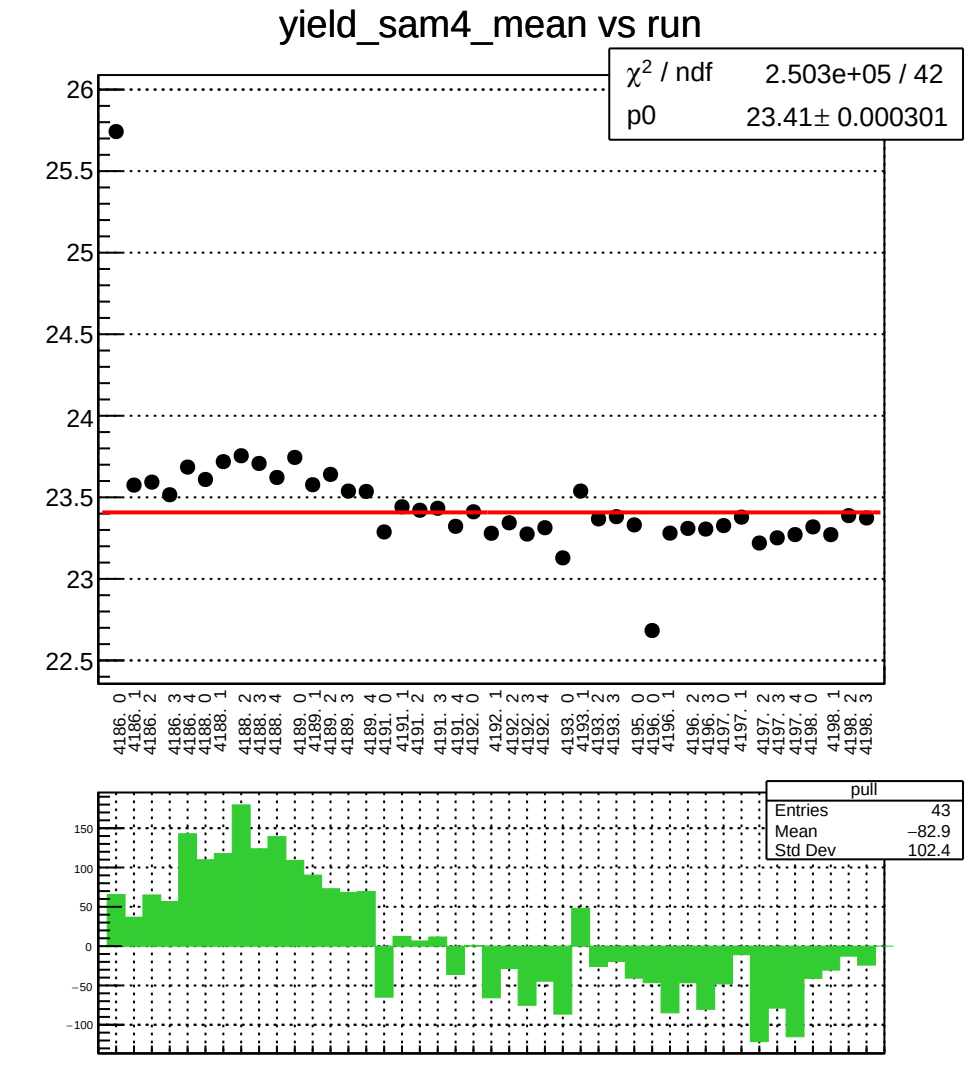

pull1D
Entries 43
Mean 0
Std Dev 0

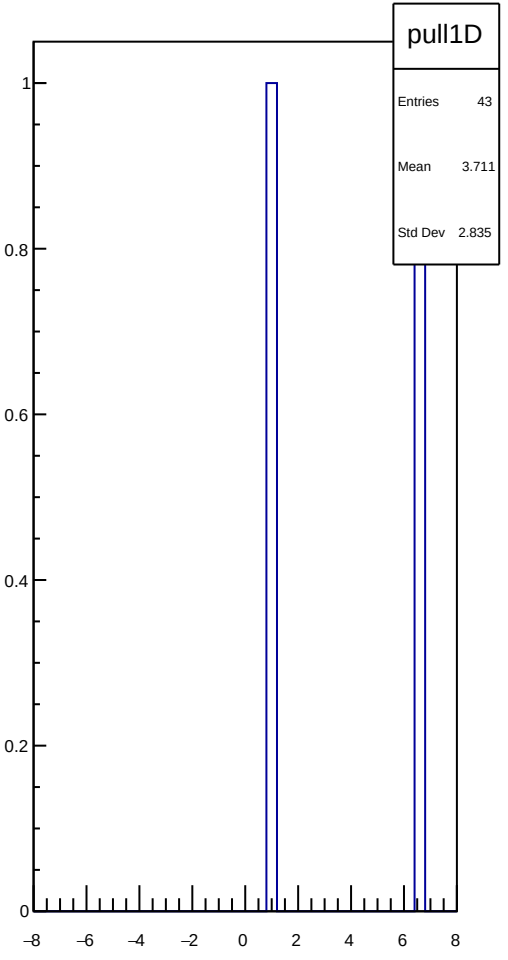

yield_sam2_rms vs run
χ² / ndf 8.134e+04 / 42
p0 0.08629 ± 9.725e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

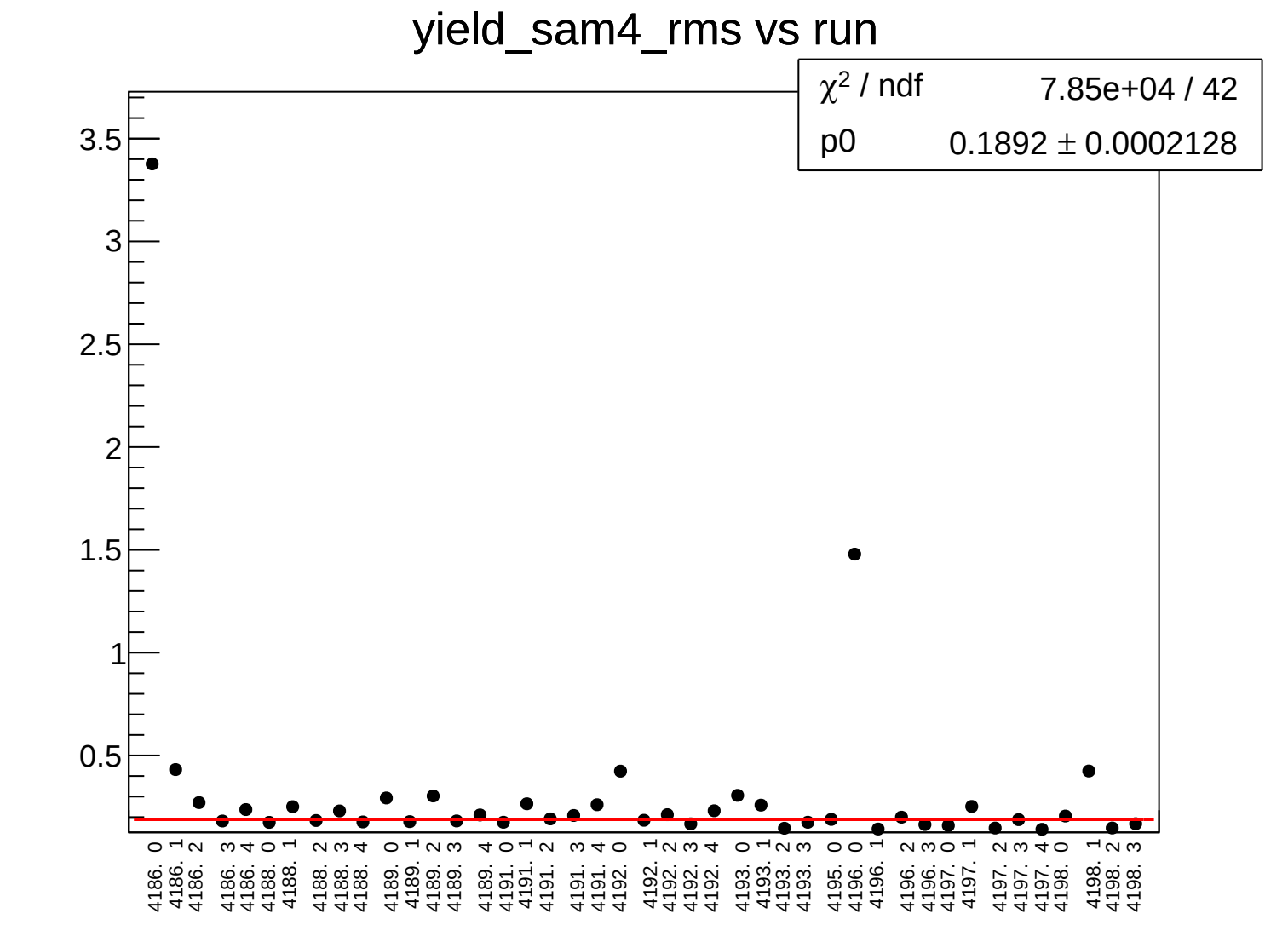

yield_sam3_mean vs run
χ² / ndf 1.801e+06 / 42
p0 23.85 ± 0.0005553
pull
Entries 43
Mean −68.62
Std Dev 90.87

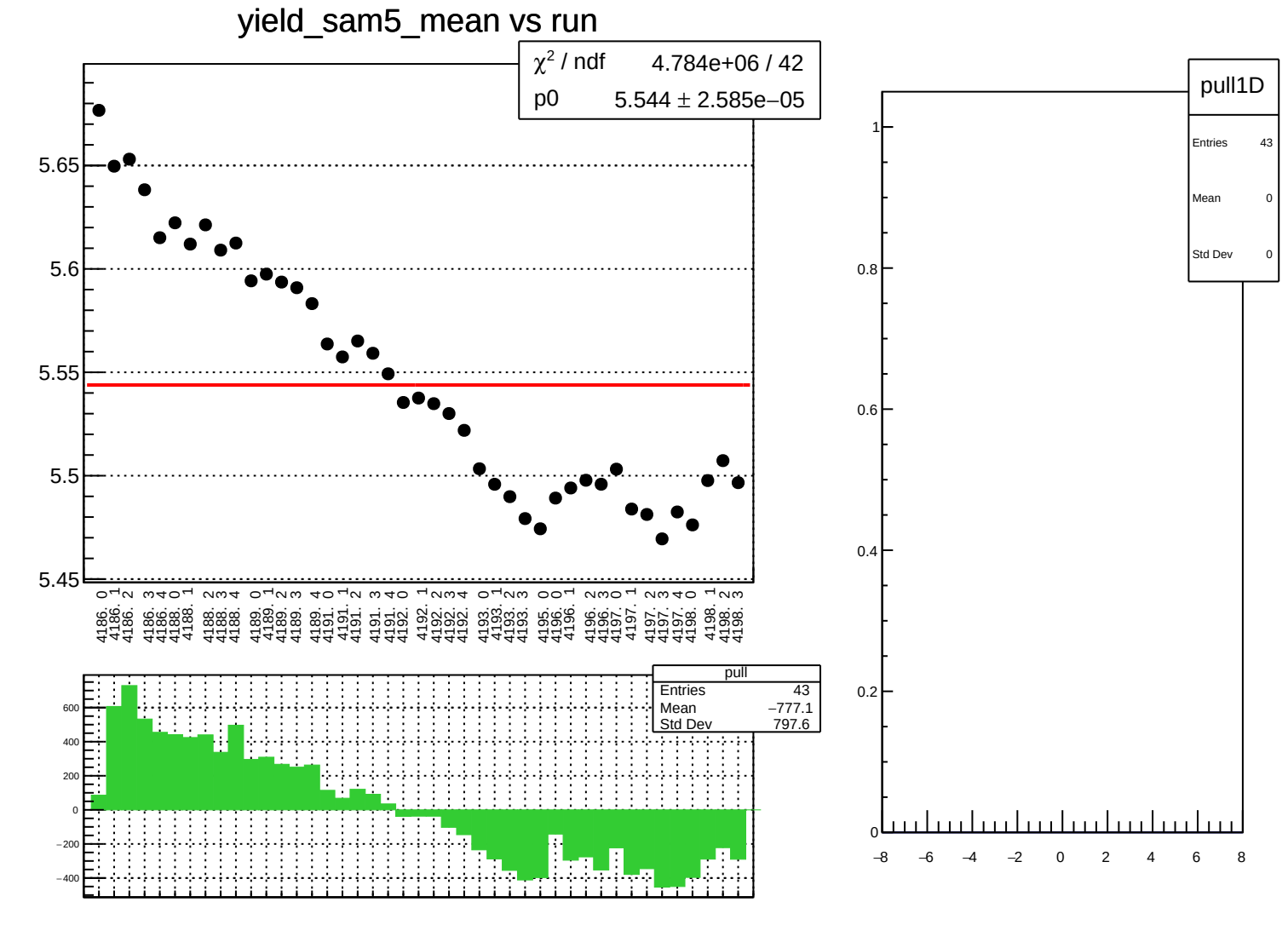

pull1D
Entries 43
Mean −3.358
Std Dev 0

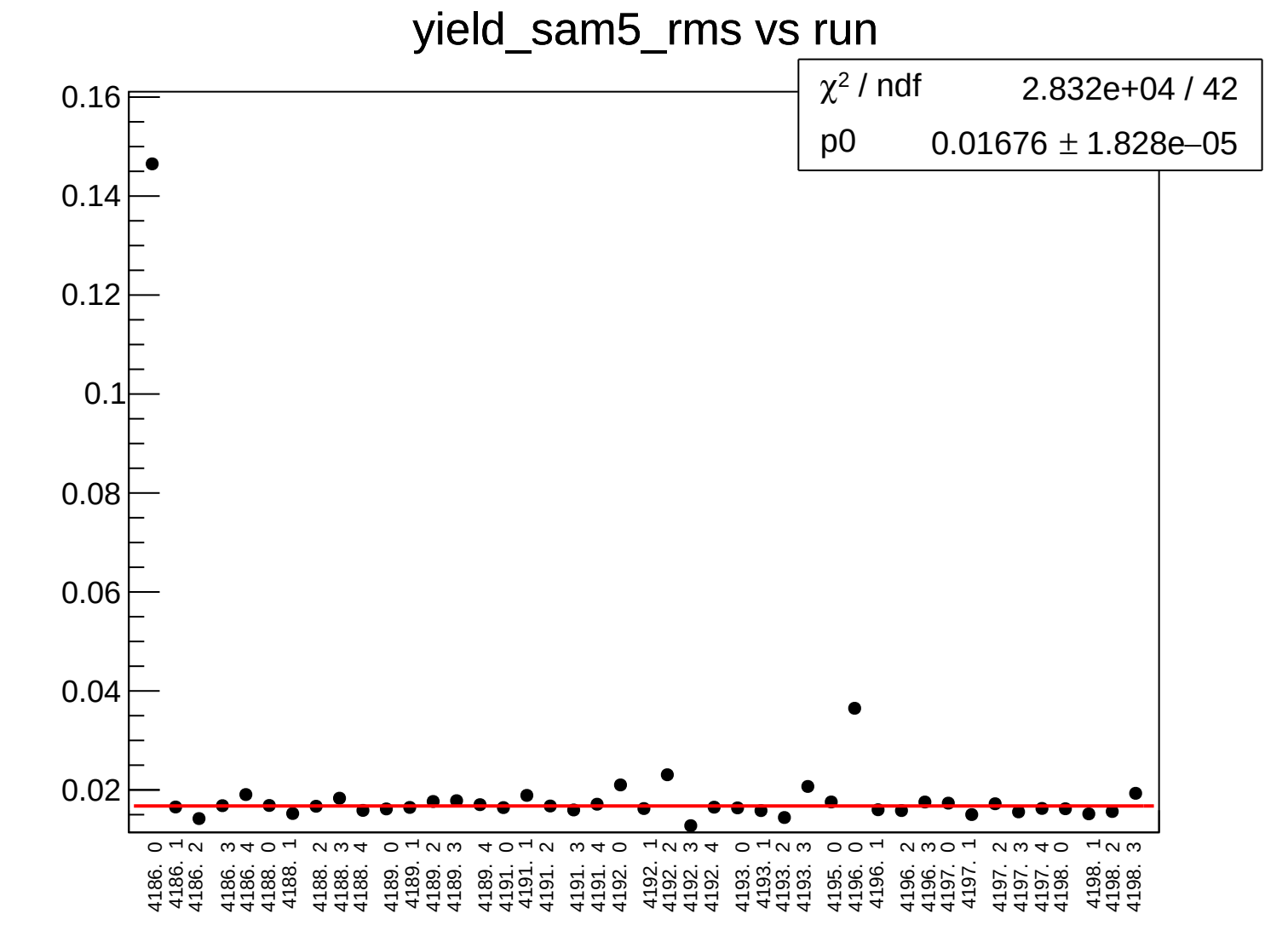

yield_sam3_rms vs run
χ² / ndf 9.812e+04 / 42
p0 0.3447 ± 0.0003927
5
4
3
2
1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

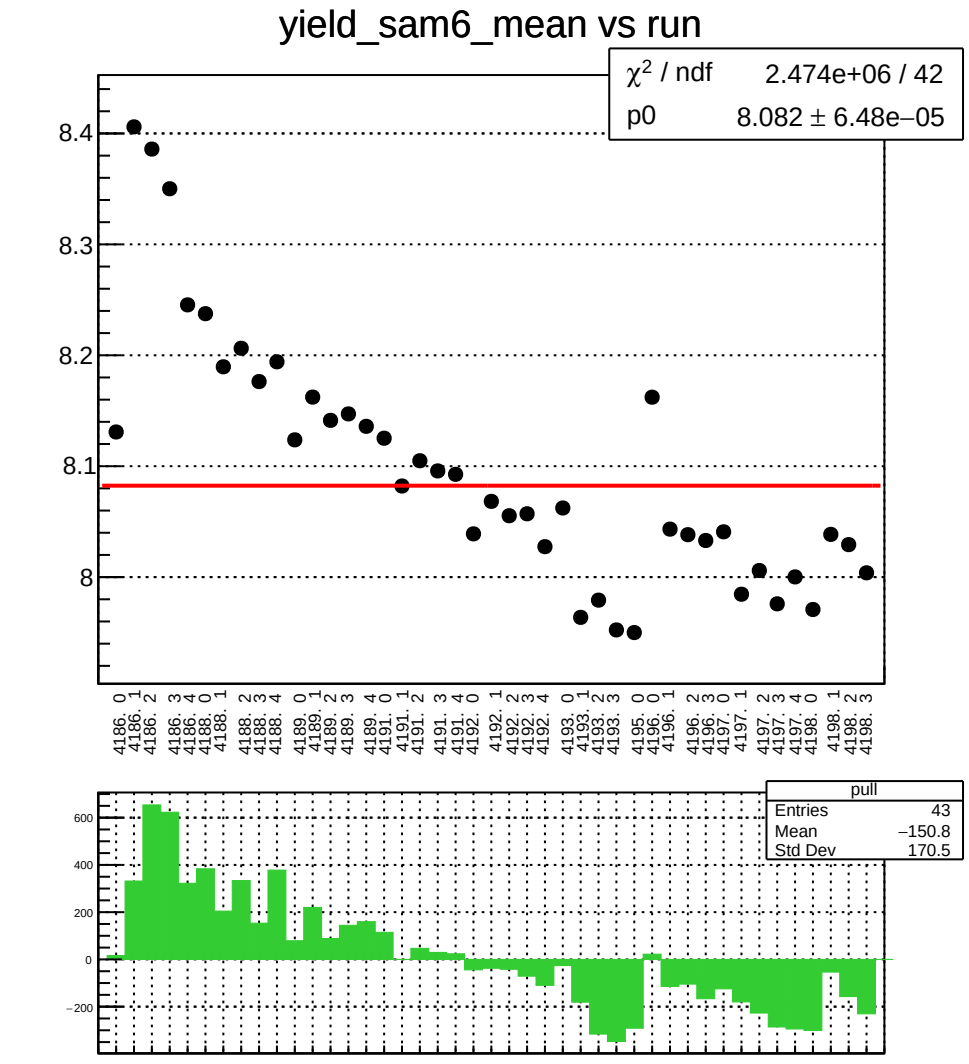

yield_sam4_mean vs run
χ² / ndf 2.503e+05 / 42
p0 23.41± 0.000301
pull
Entries 43
Mean −82.9
Std Dev 102.4

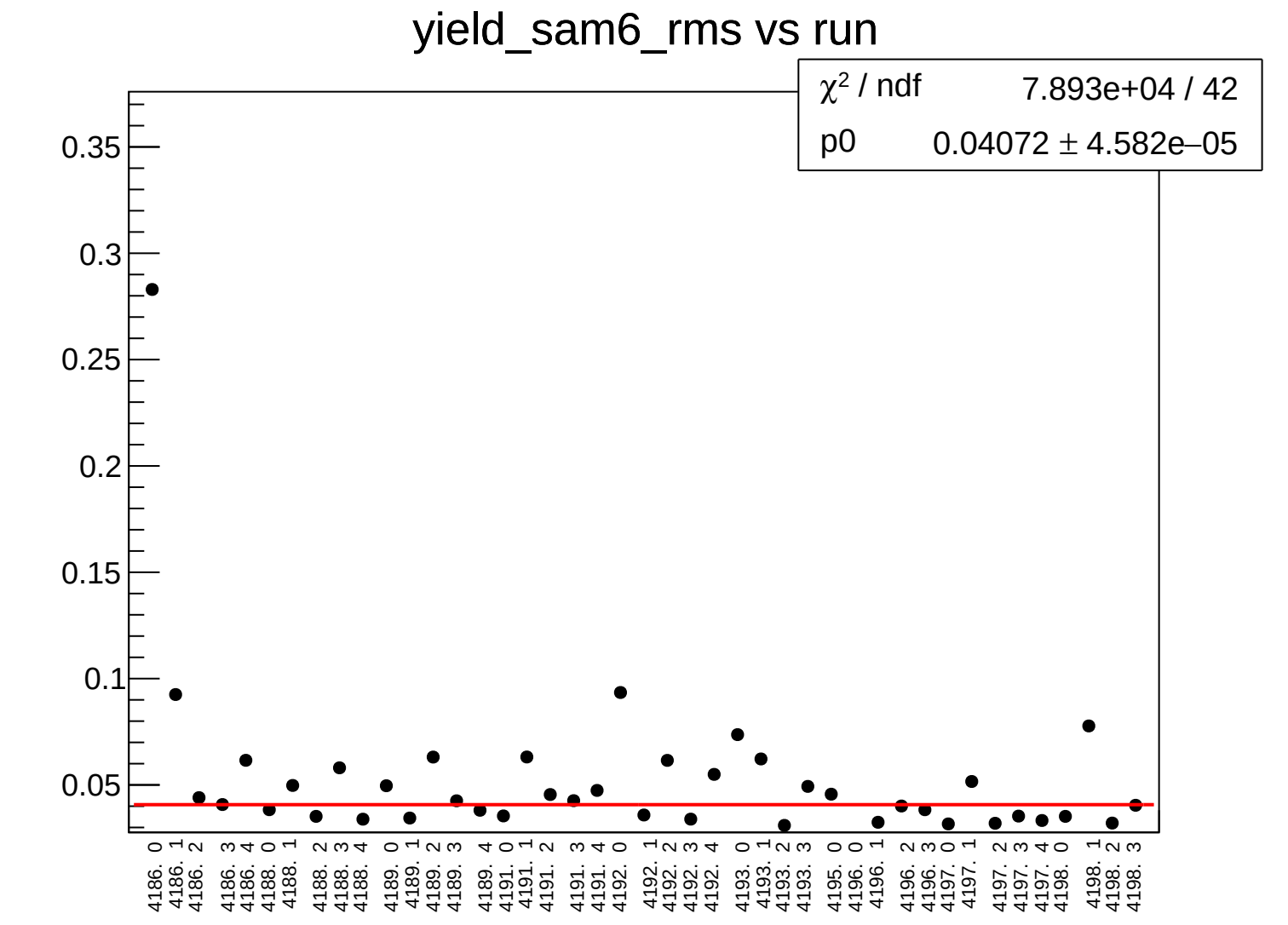

pull1D
Entries 43
Mean 3.711
Std Dev 2.835

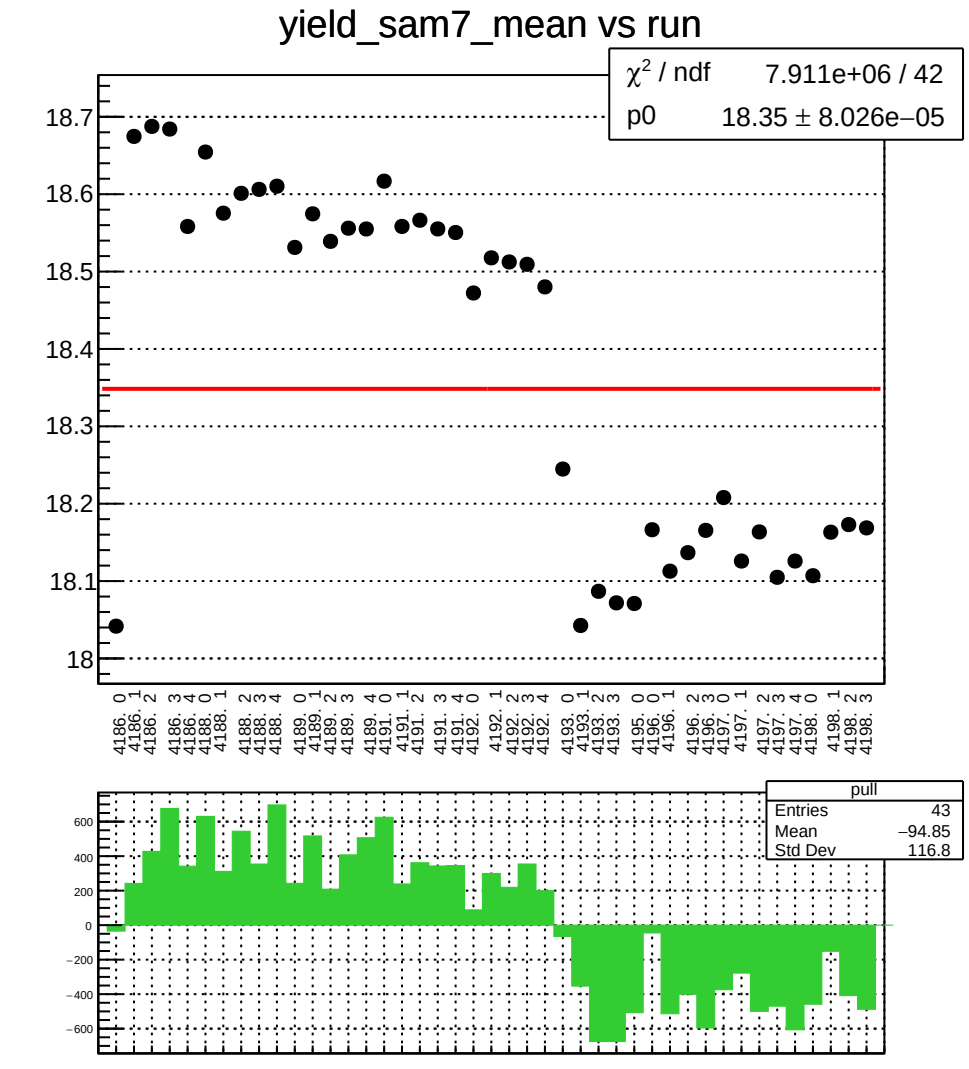

yield_sam4_rms vs run
χ² / ndf 7.85e+04 / 42
p0 0.1892 ± 0.0002128
3.5
3
2.5
2
1.5
1
0.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

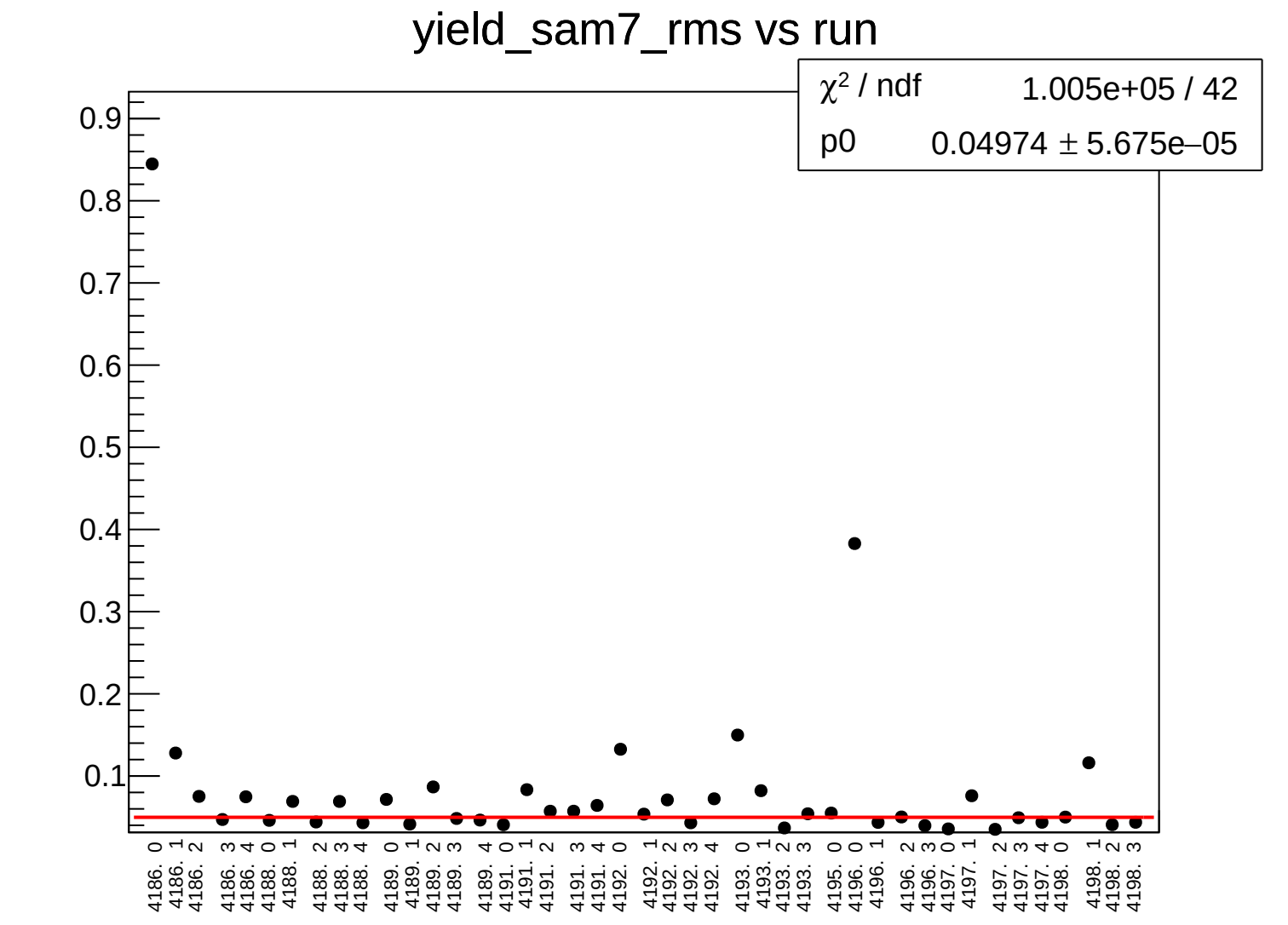

yield_sam5_mean vs run
χ² / ndf 4.784e+06 / 42
p0 5.544 ± 2.585e−05
5.65
5.6
5.55
5.5
5.45
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −777.1
Std Dev 797.6
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

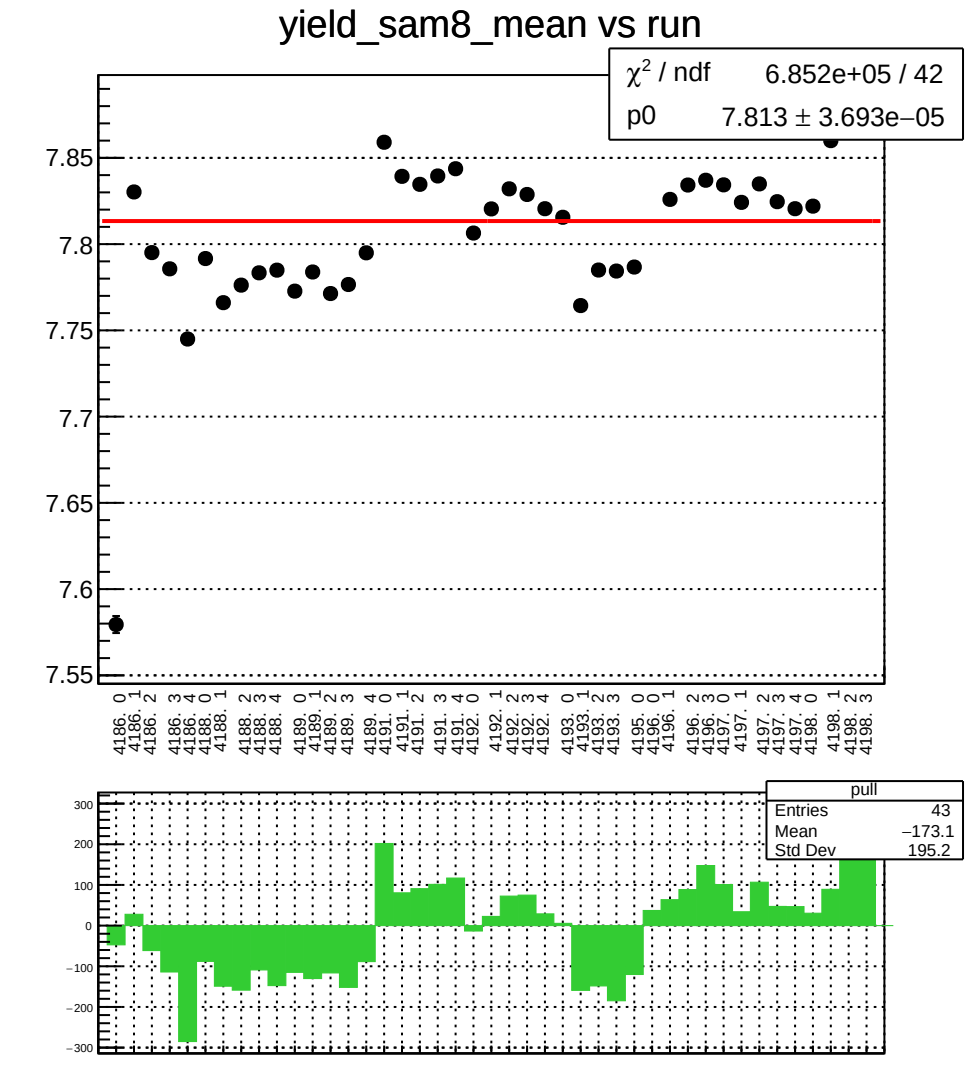

yield_sam5_rms vs run
χ² / ndf 2.832e+04 / 42
p0 0.01676 ± 1.828e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

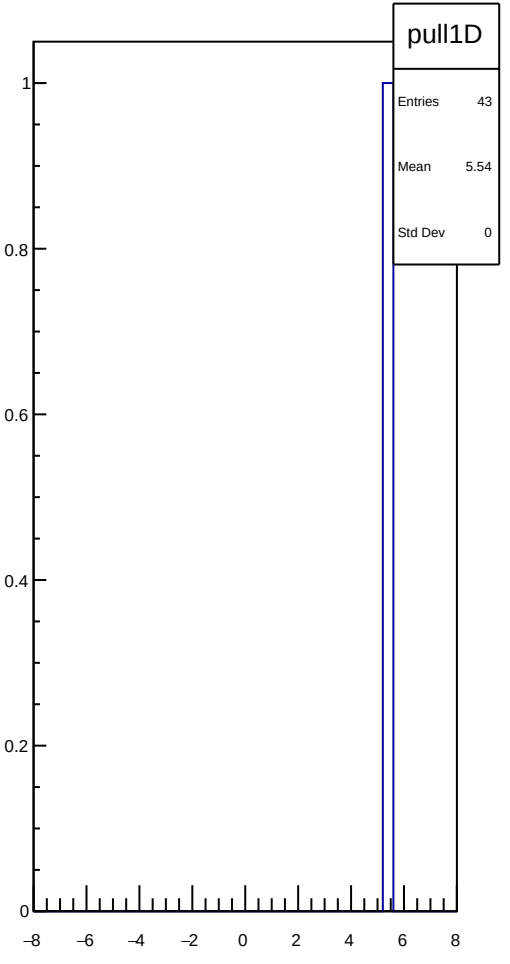

yield_sam6_mean vs run
χ² / ndf 2.474e+06 / 42
p0 8.082 ± 6.48e−05
8.4
8.3
8.2
8.1
8
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −150.8
Std Dev 170.5
600
400
200
0
−200
pull1D
Entries 43
Mean −0.441
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

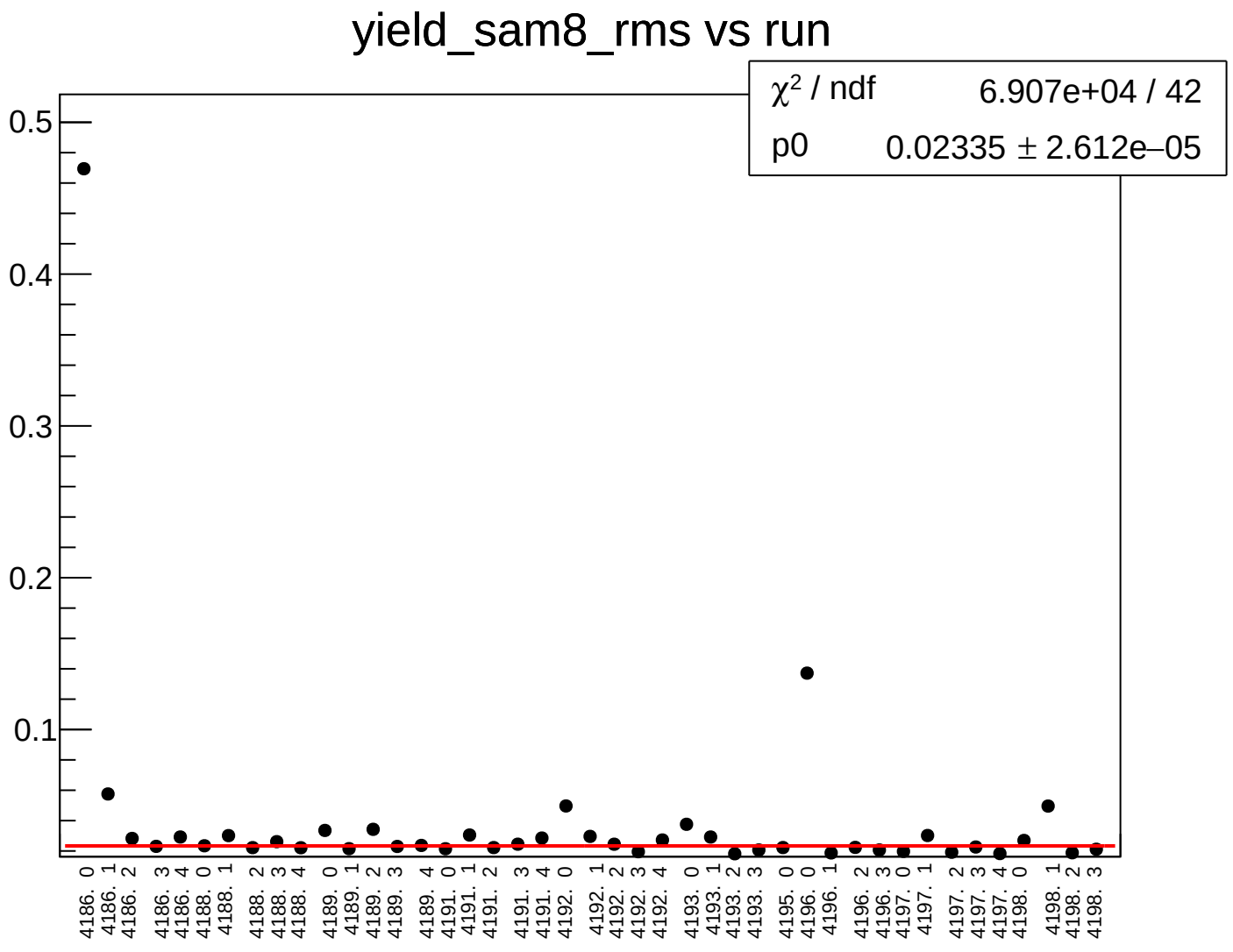

yield_sam6_rms vs run
χ² / ndf 7.893e+04 / 42
p0 0.04072 ± 4.582e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

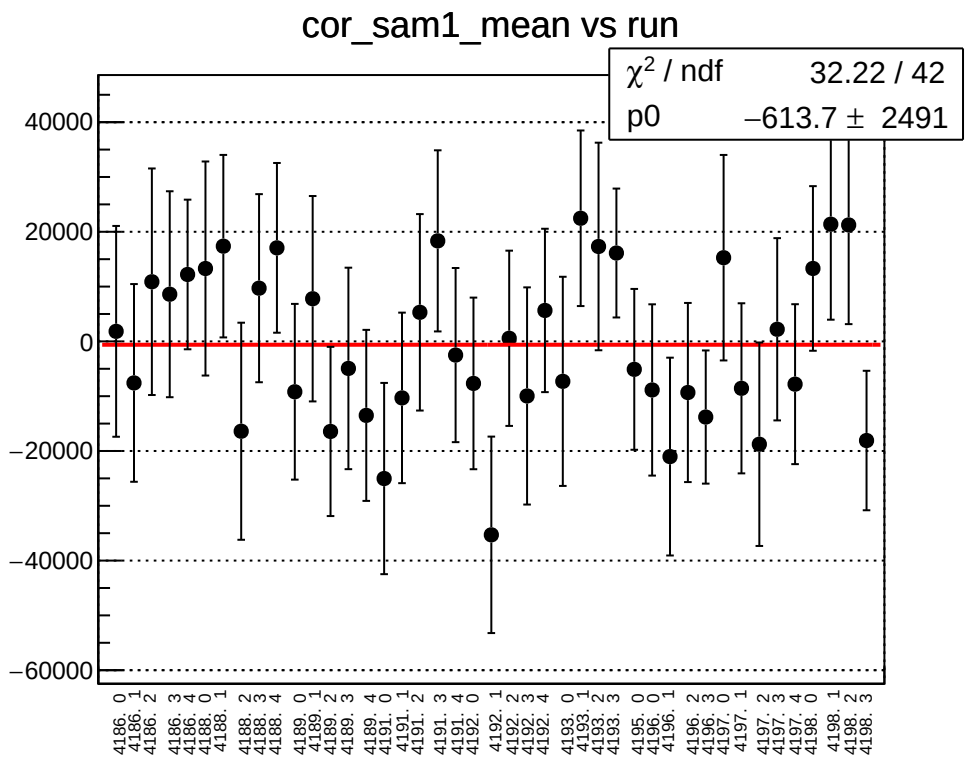

yield_sam7_mean vs run
χ² / ndf 7.911e+06 / 42
p0 18.35 ± 8.026e−05
18.7
18.6
18.5
18.4
18.3
18.2
18.1
18
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −94.85
Std Dev 116.8
600
400
200
0
−200
−400
−600
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

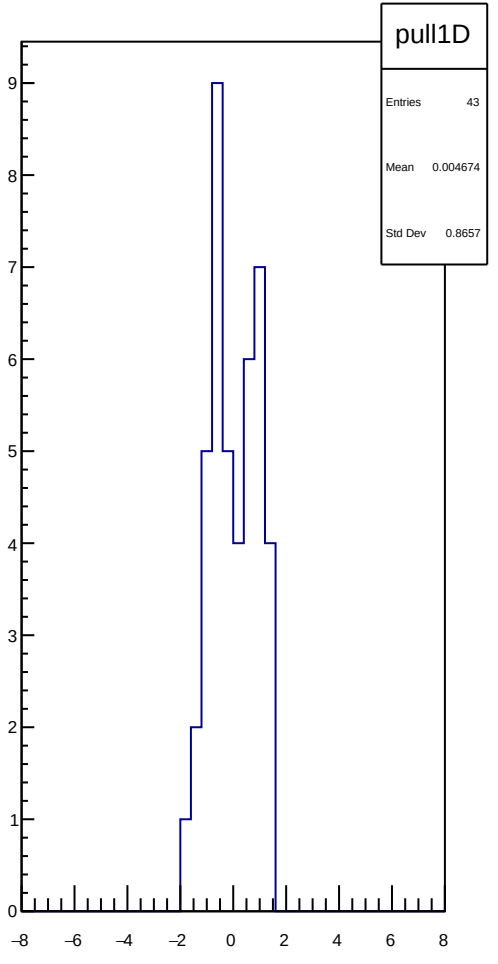

yield_sam7_rms vs run
χ² / ndf 1.005e+05 / 42
p0 0.04974 ± 5.675e–05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

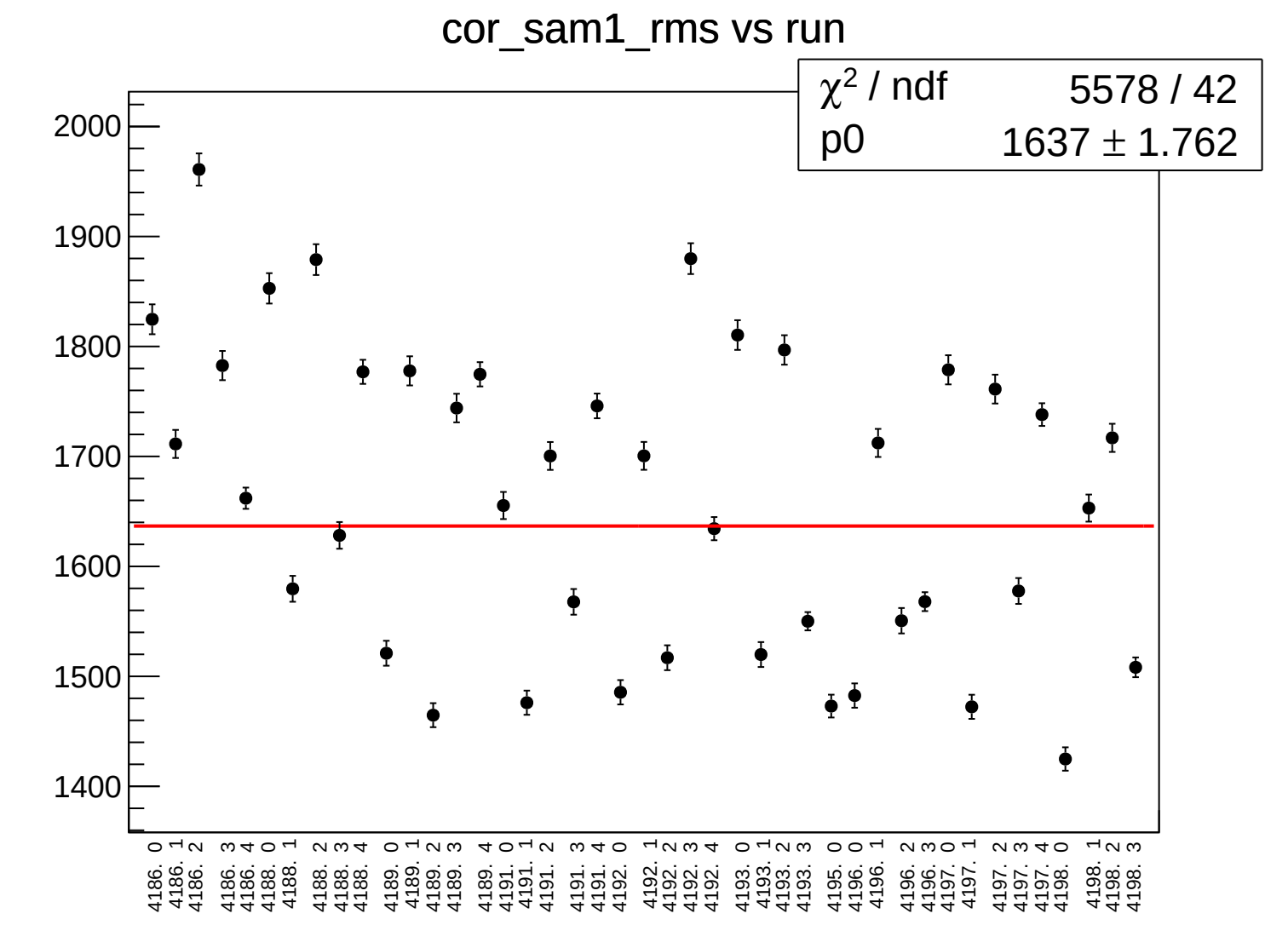

yield_sam8_mean vs run
χ² / ndf 6.852e+05 / 42
p0 7.813 ± 3.693e−05
7.85
7.8
7.75
7.7
7.65
7.6
7.55
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −173.1
Std Dev 195.2
300
200
100
0
−100
−200
−300

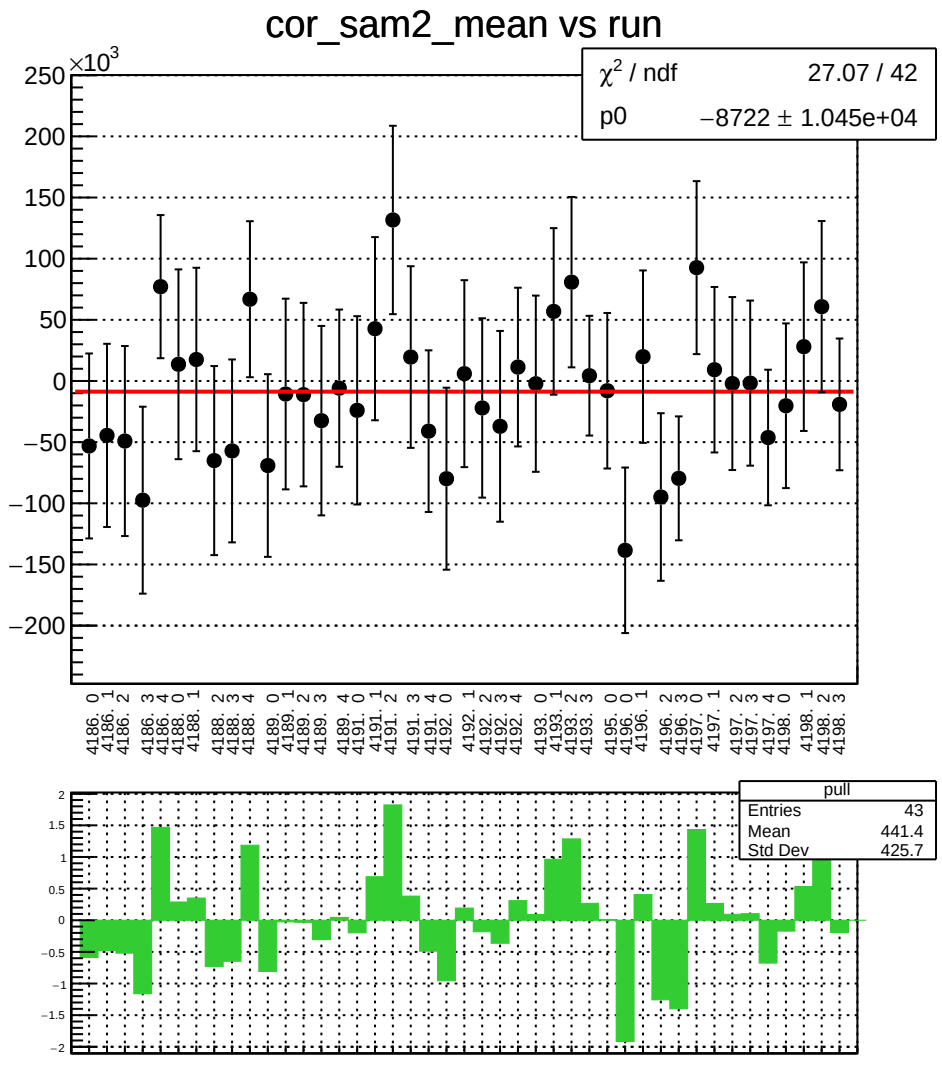

pull1D
Entries 43
Mean 5.54
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

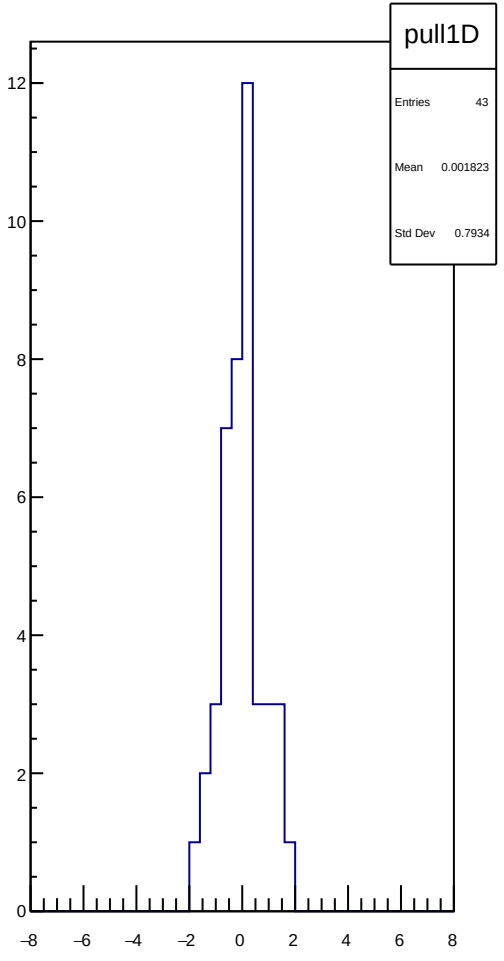

yield_sam8_rms vs run
χ² / ndf 6.907e+04 / 42
p0 0.02335 ± 2.612e–05
0.5
0.4
0.3
0.2
0.1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

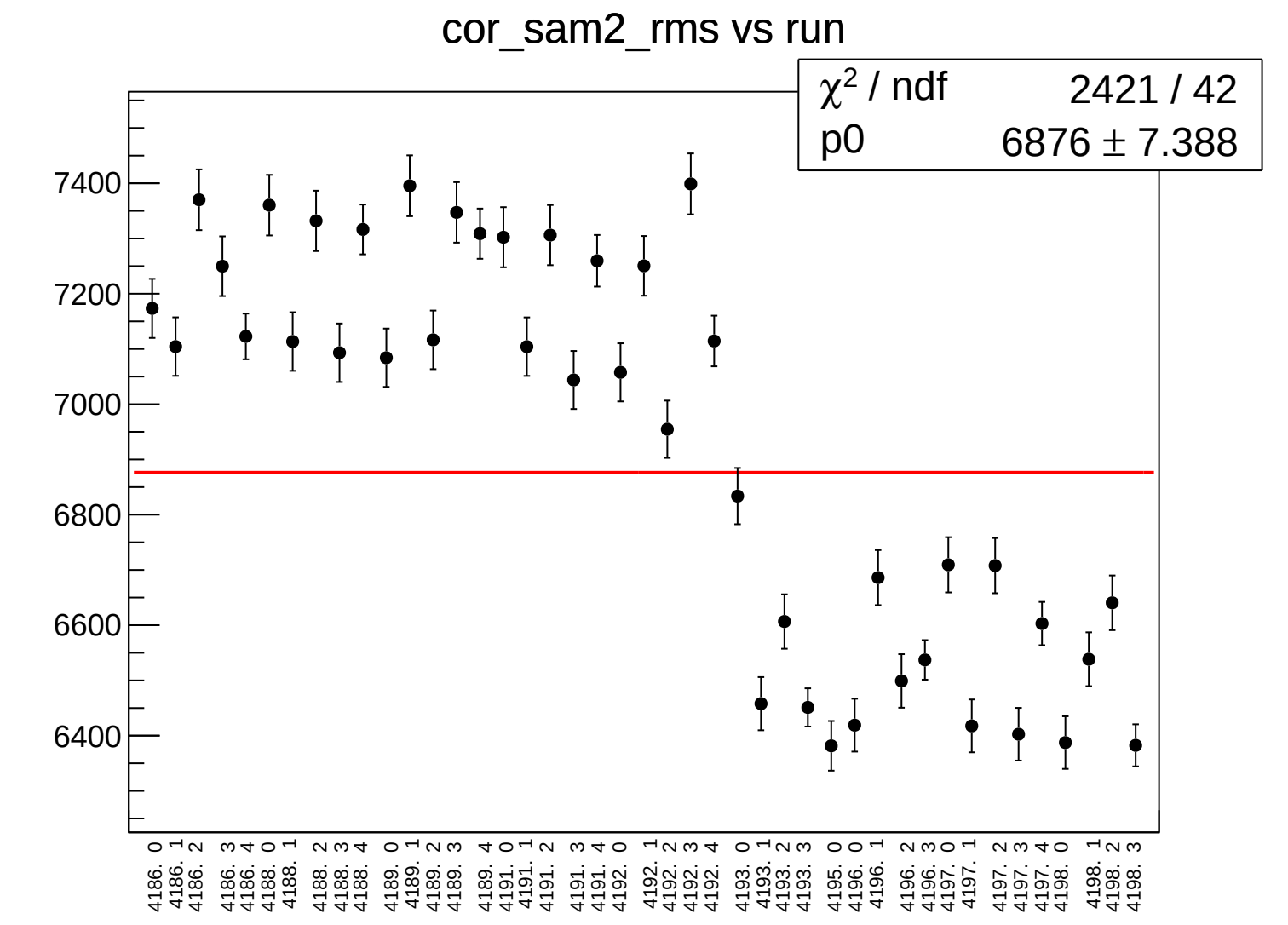

cor_sam1_mean vs run
χ² / ndf 32.22 / 42
p0 −613.7 ± 2491
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −170.6
Std Dev 179.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

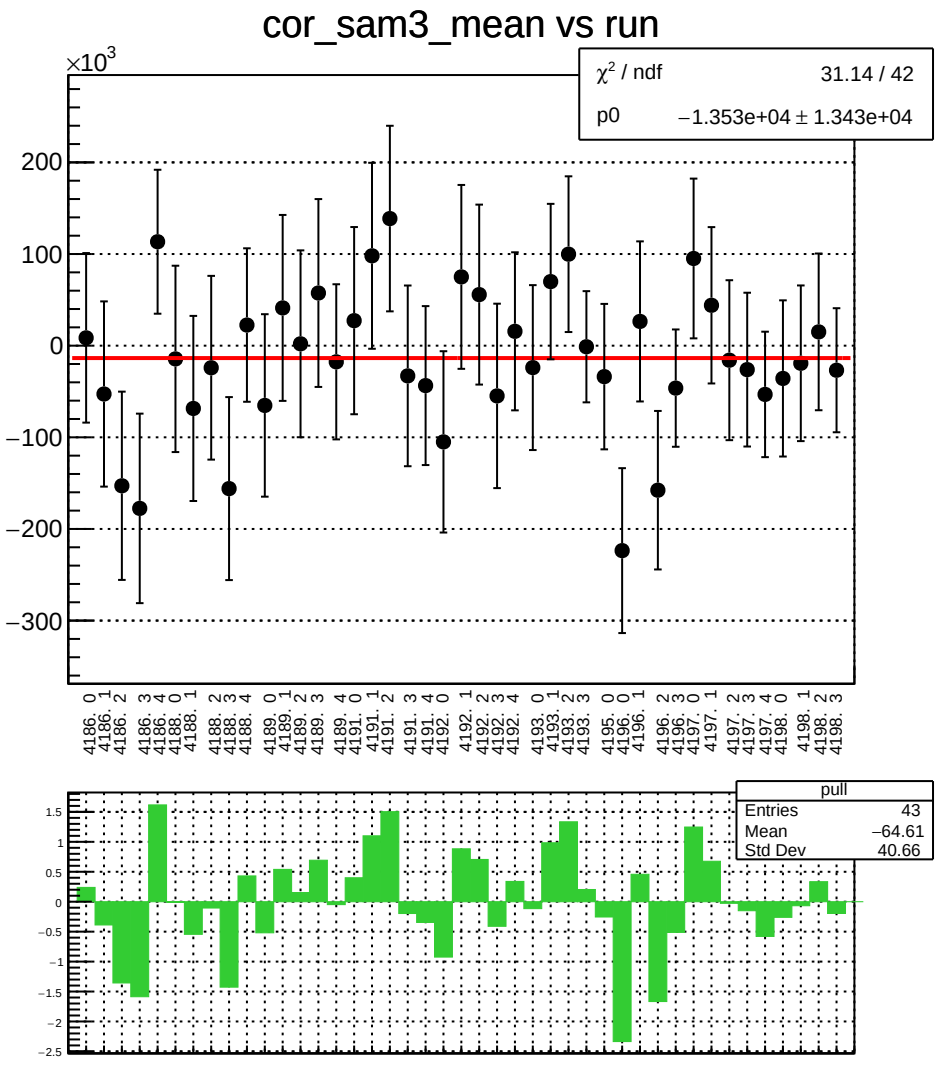

pull1D
Entries 43
Mean 0.004674
Std Dev 0.8657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

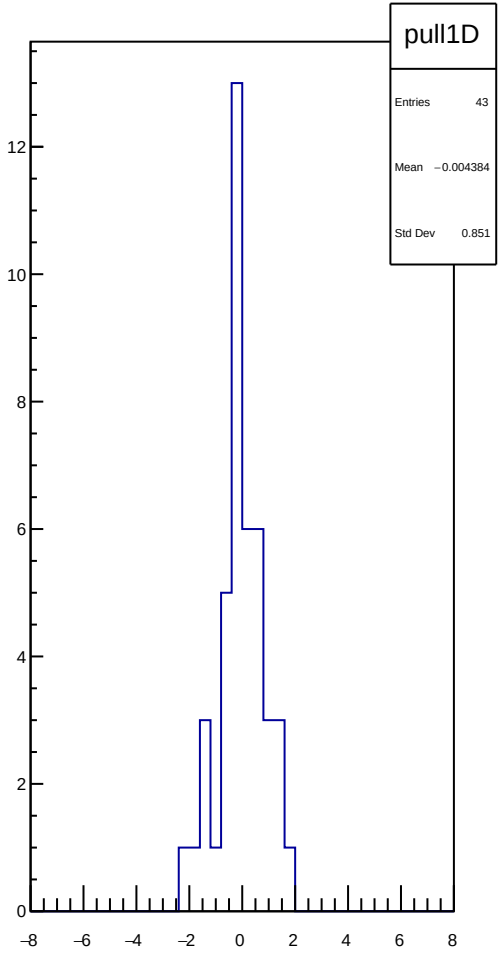

cor_sam1_rms vs run
χ² / ndf 5578 / 42
p0 1637 ± 1.762
2000
1900
1800
1700
1600
1500
1400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

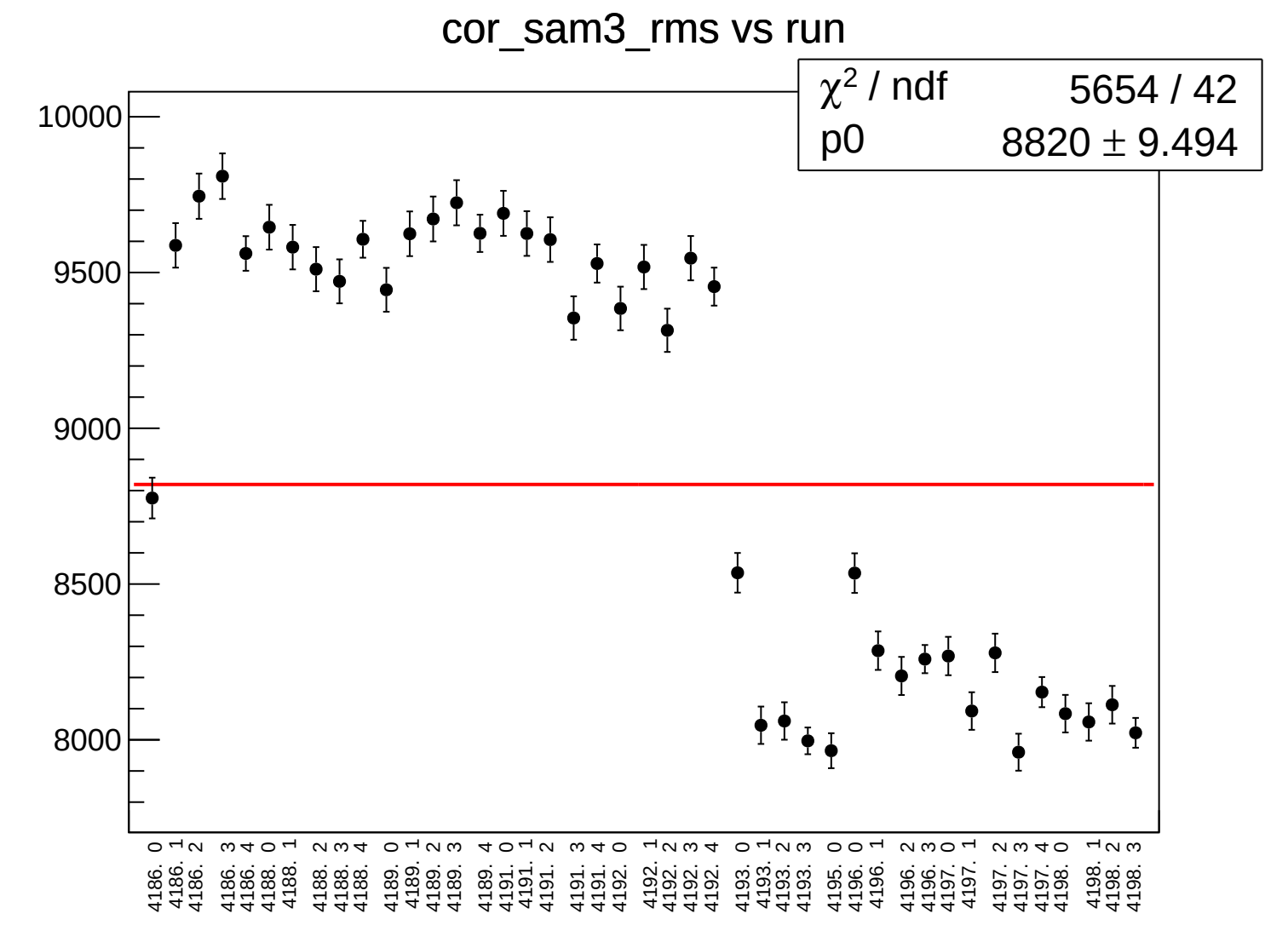

cor_sam2_mean vs run
χ² / ndf 27.07 / 42
p0 −8722 ± 1.045e+04
×10³
pull
Entries 43
Mean 441.4
Std Dev 425.7

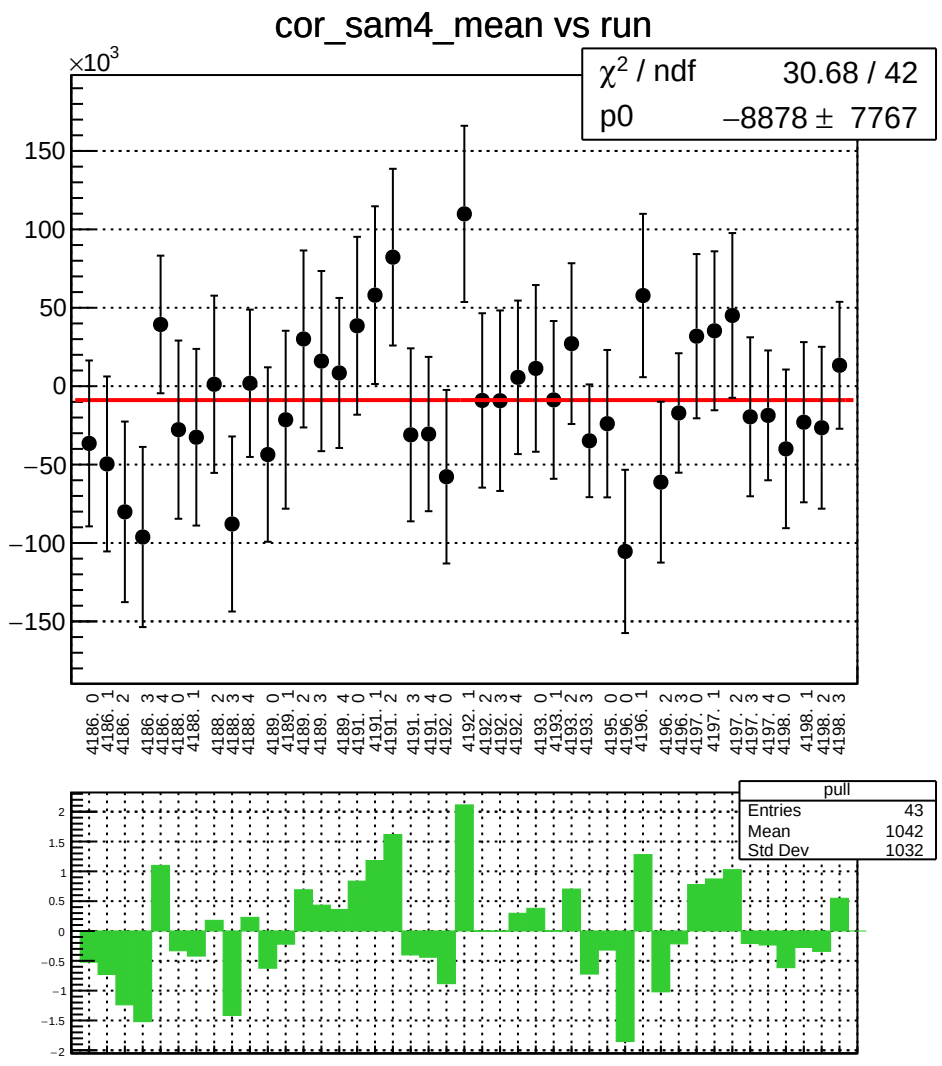

pull1D
Entries 43
Mean 0.001823
Std Dev 0.7934

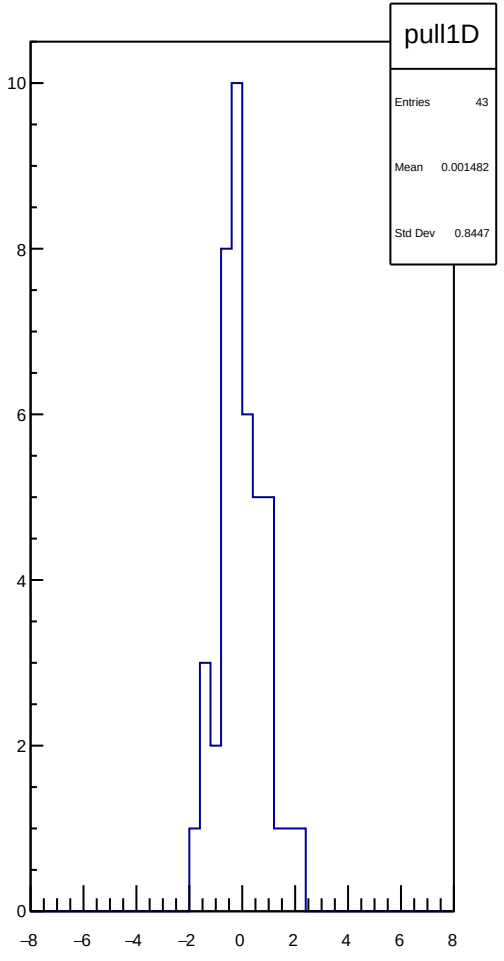

cor_sam2_rms vs run
χ² / ndf 2421 / 42
p0 6876 ± 7.388
7400
7200
7000
6800
6600
6400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

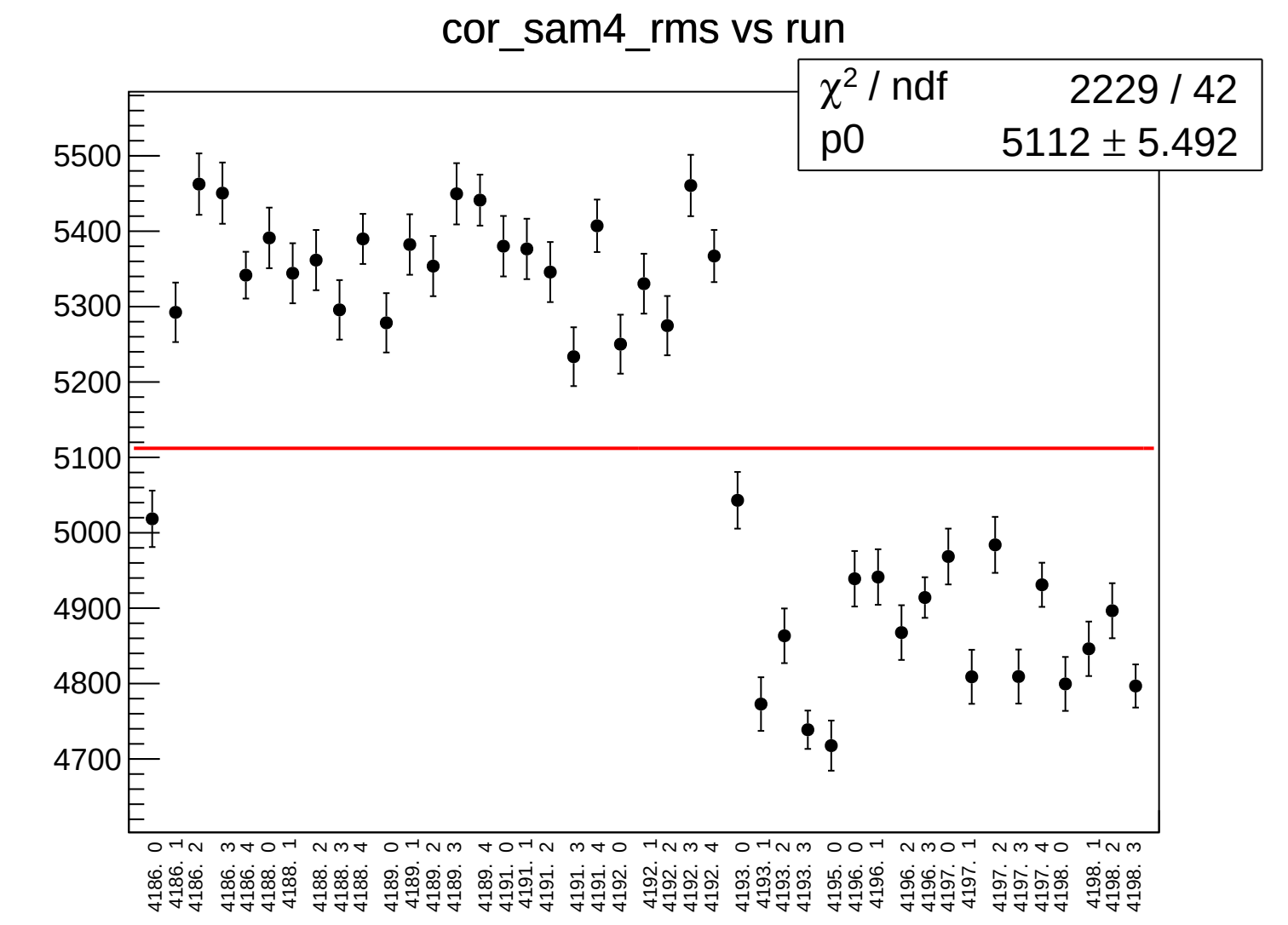

cor_sam3_mean vs run
×10^3
χ² / ndf 31.14 / 42
p0 −1.353e+04 ± 1.343e+04
200
100
0
−100
−200
−300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −64.61
Std Dev 40.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

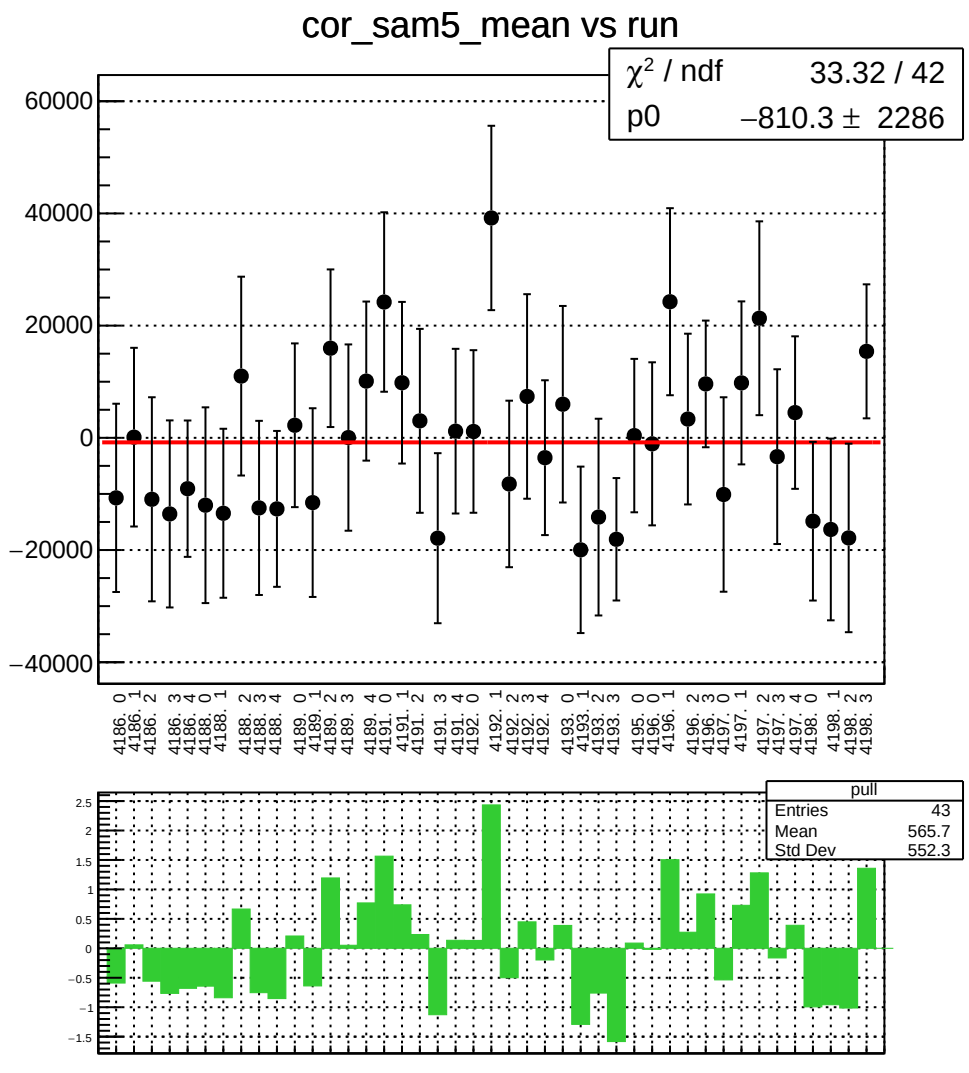

pull1D
Entries 43
Mean −0.004384
Std Dev 0.851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

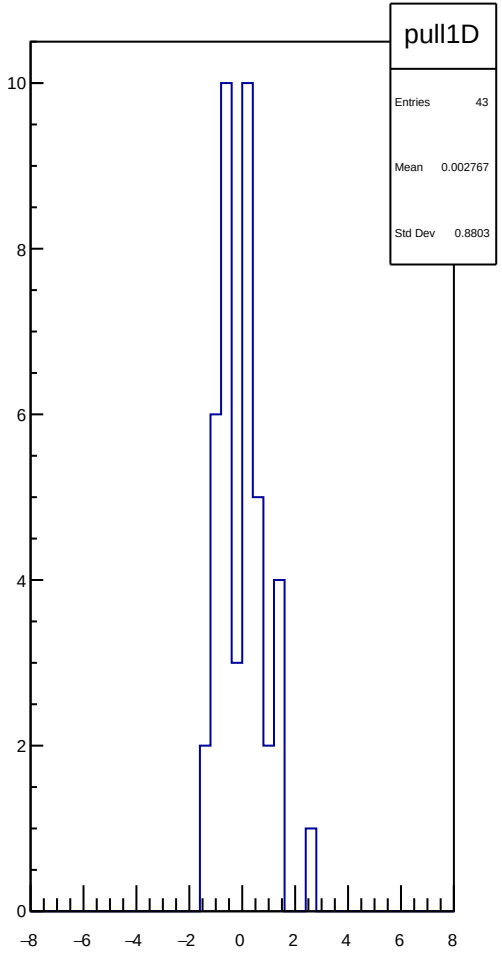

cor_sam3_rms vs run
χ² / ndf 5654 / 42
p0 8820 ± 9.494
10000
9500
9000
8500
8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

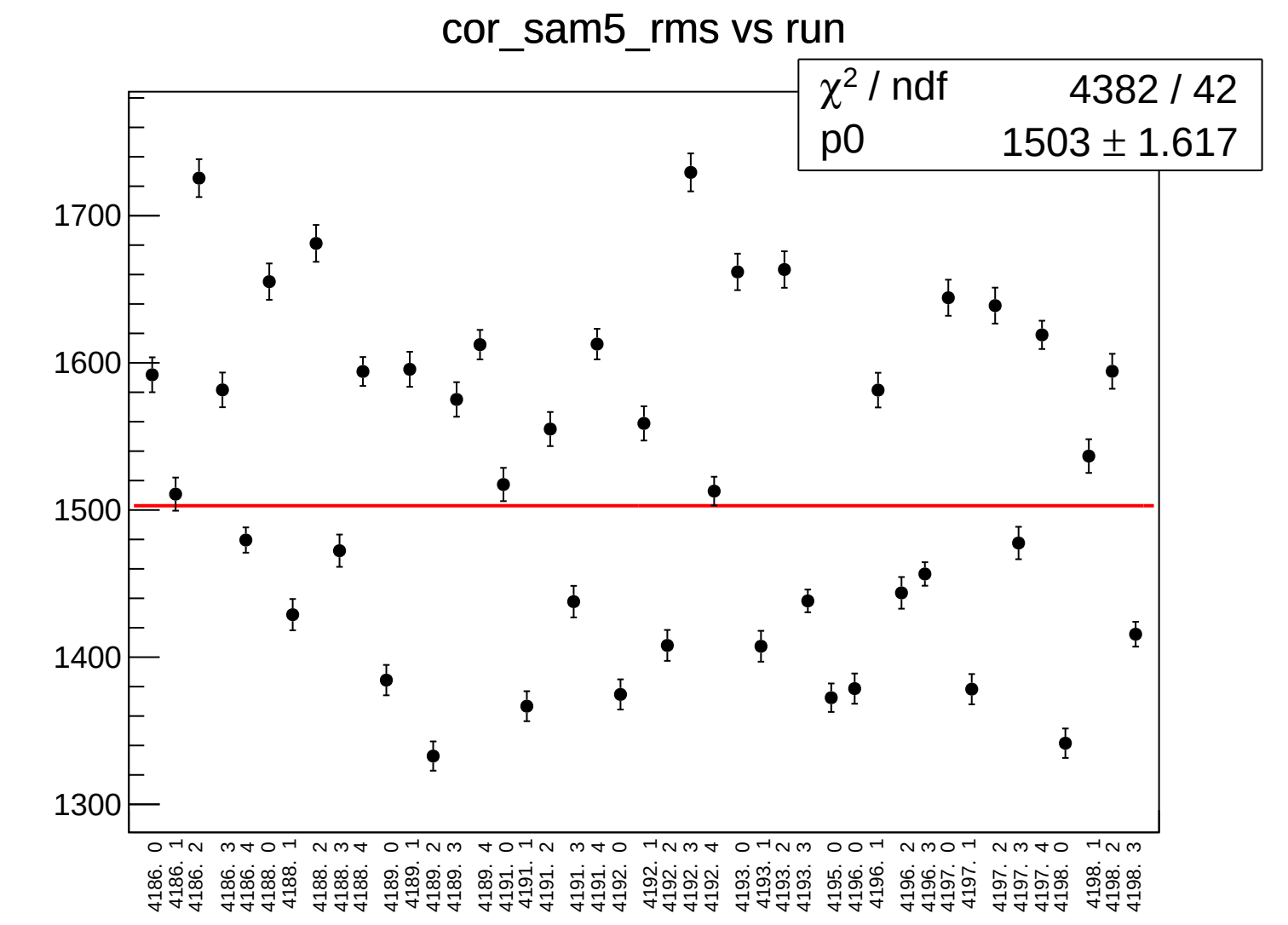

cor_sam4_mean vs run
×10^3
χ² / ndf 30.68 / 42
p0 −8878 ± 7767
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1042
Std Dev 1032
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

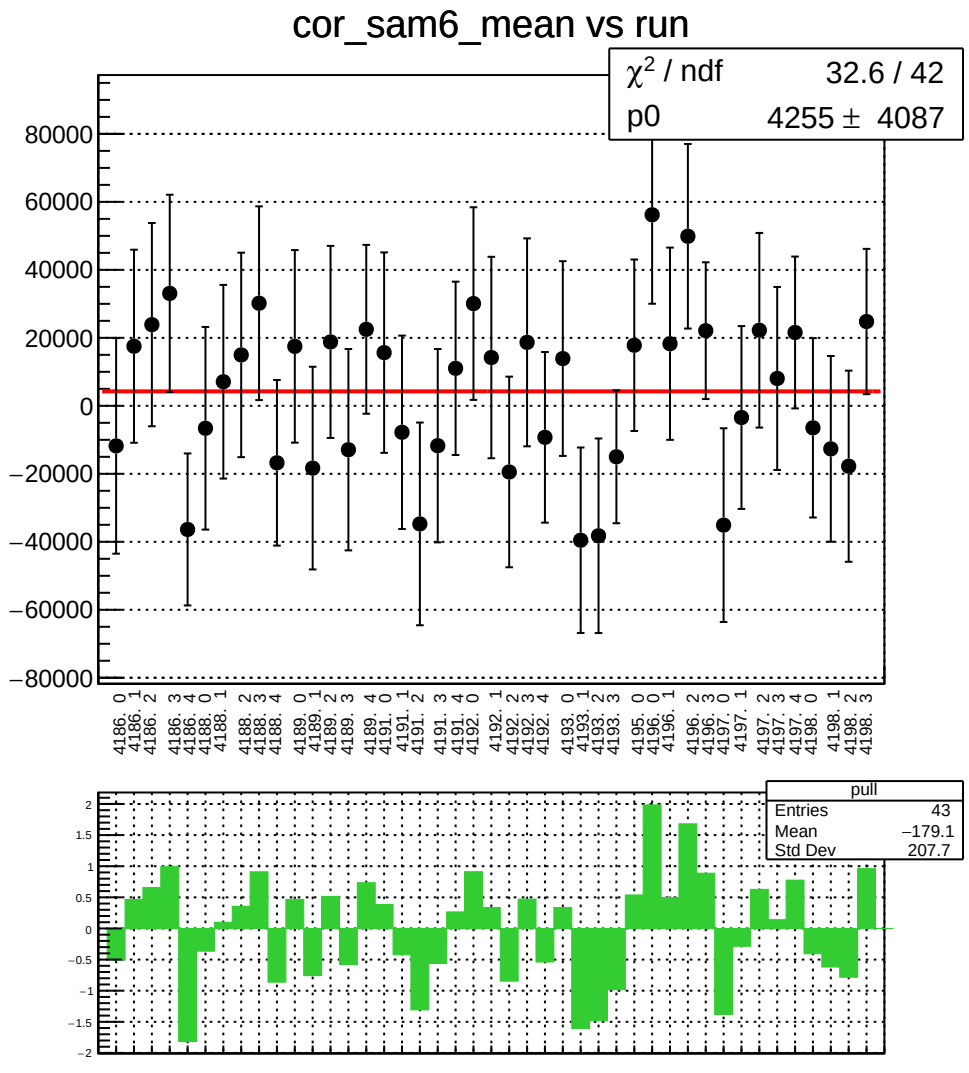

pull1D
Entries 43
Mean 0.001482
Std Dev 0.8447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

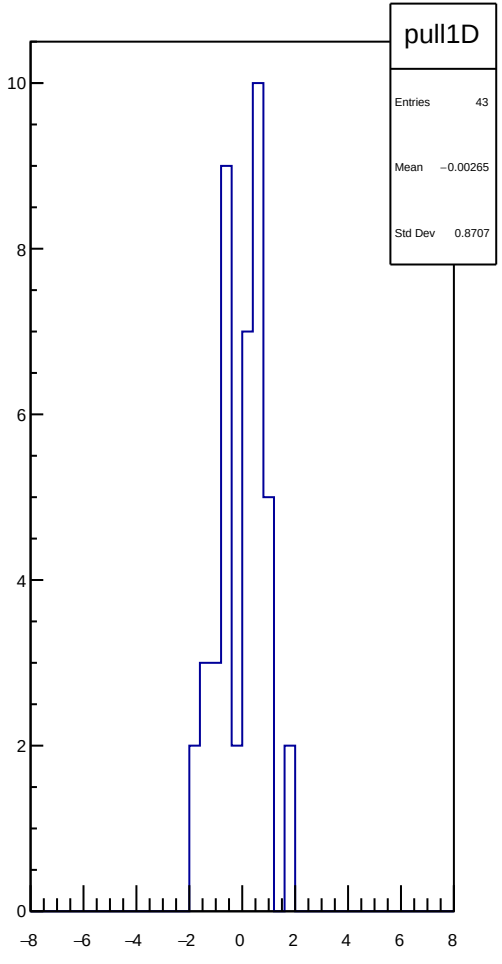

cor_sam4_rms vs run
χ² / ndf 2229 / 42
p0 5112 ± 5.492
5500
5400
5300
5200
5100
5000
4900
4800
4700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

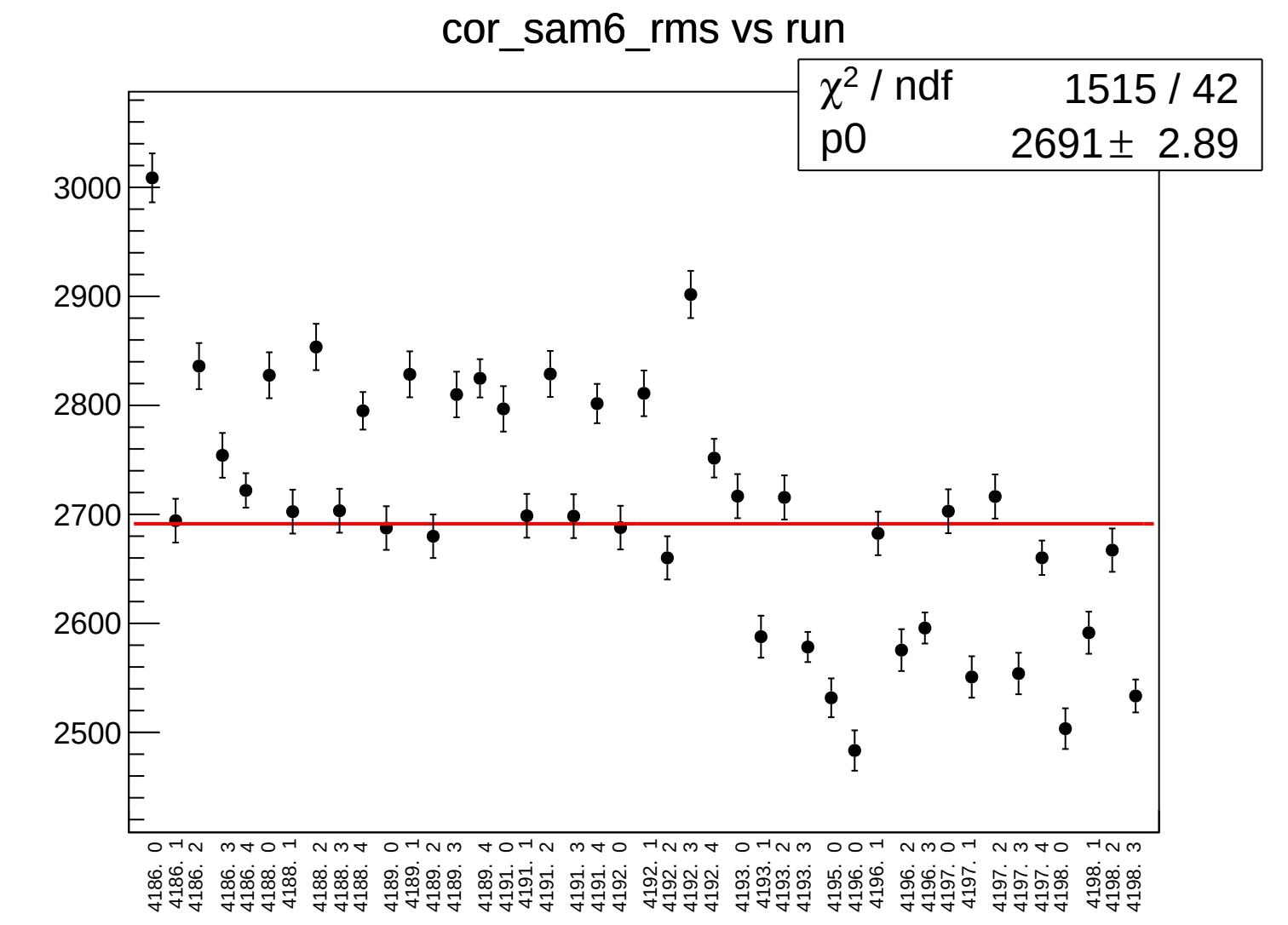

cor_sam5_mean vs run
χ² / ndf 33.32 / 42
p0 −810.3 ± 2286
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 565.7
Std Dev 552.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

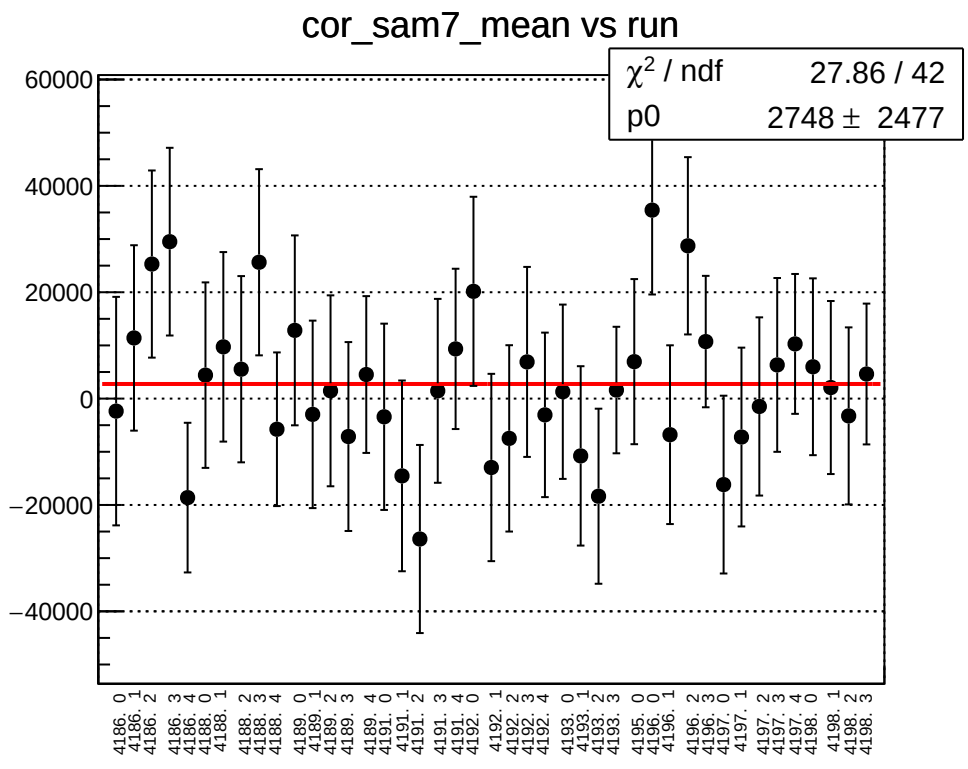

pull1D
Entries 43
Mean 0.002767
Std Dev 0.8803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

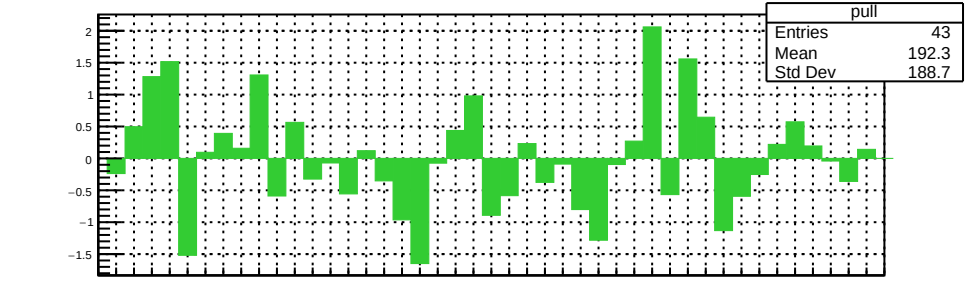

cor_sam5_rms vs run
χ² / ndf 4382 / 42
p0 1503 ± 1.617
1700
1600
1500
1400
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

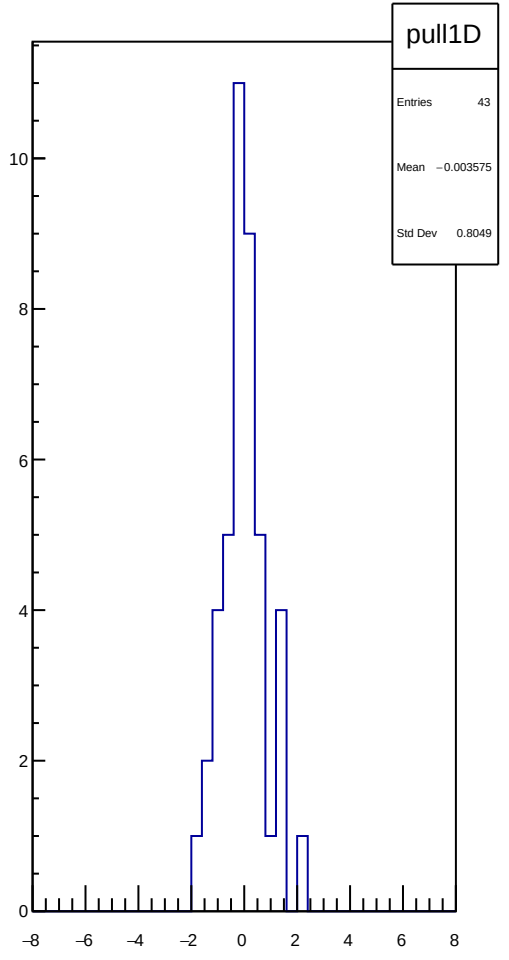

cor_sam6_mean vs run
χ² / ndf 32.6 / 42
p0 4255 ± 4087
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −179.1
Std Dev 207.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

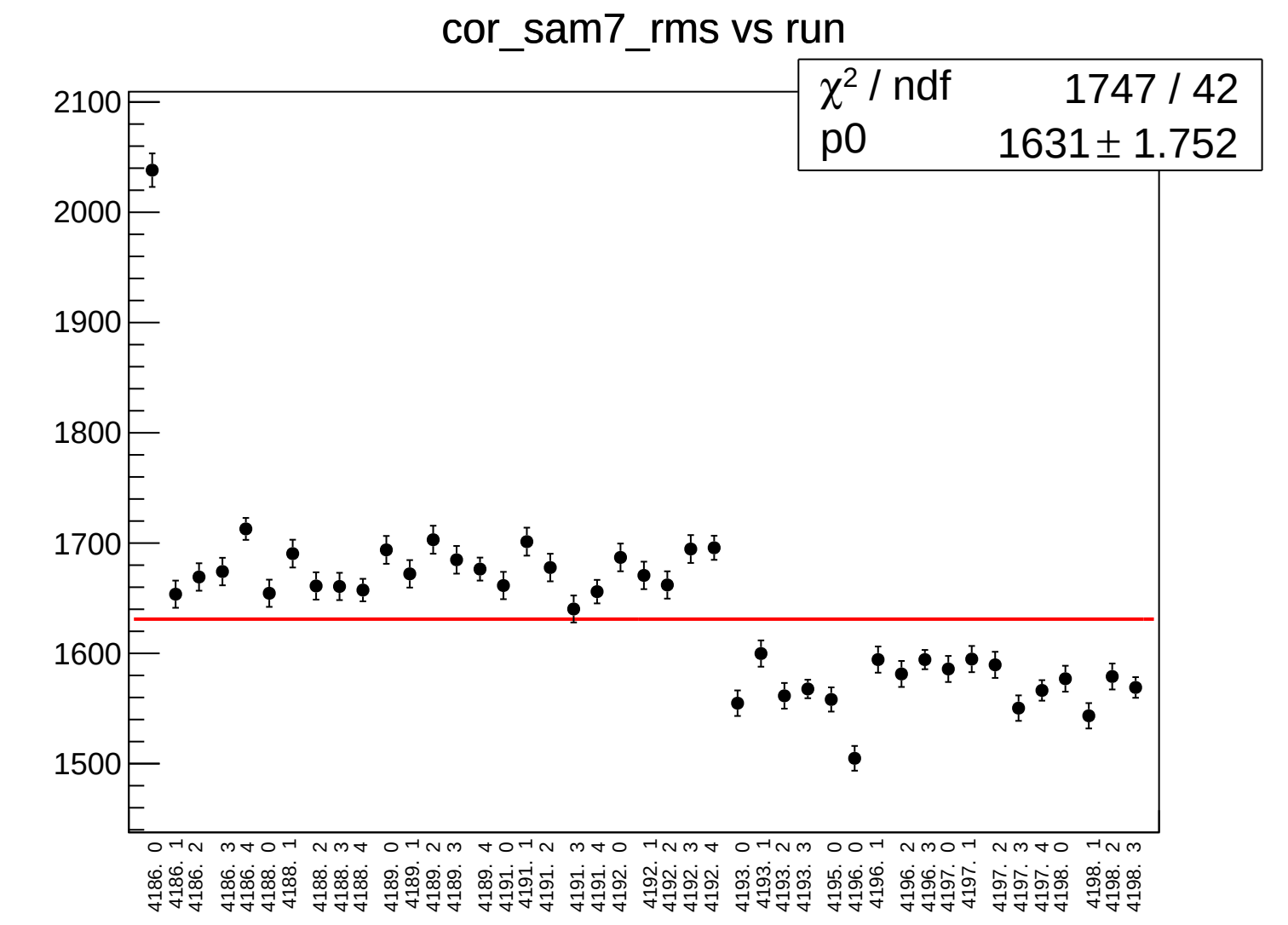

pull1D
Entries 43
Mean −0.00265
Std Dev 0.8707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

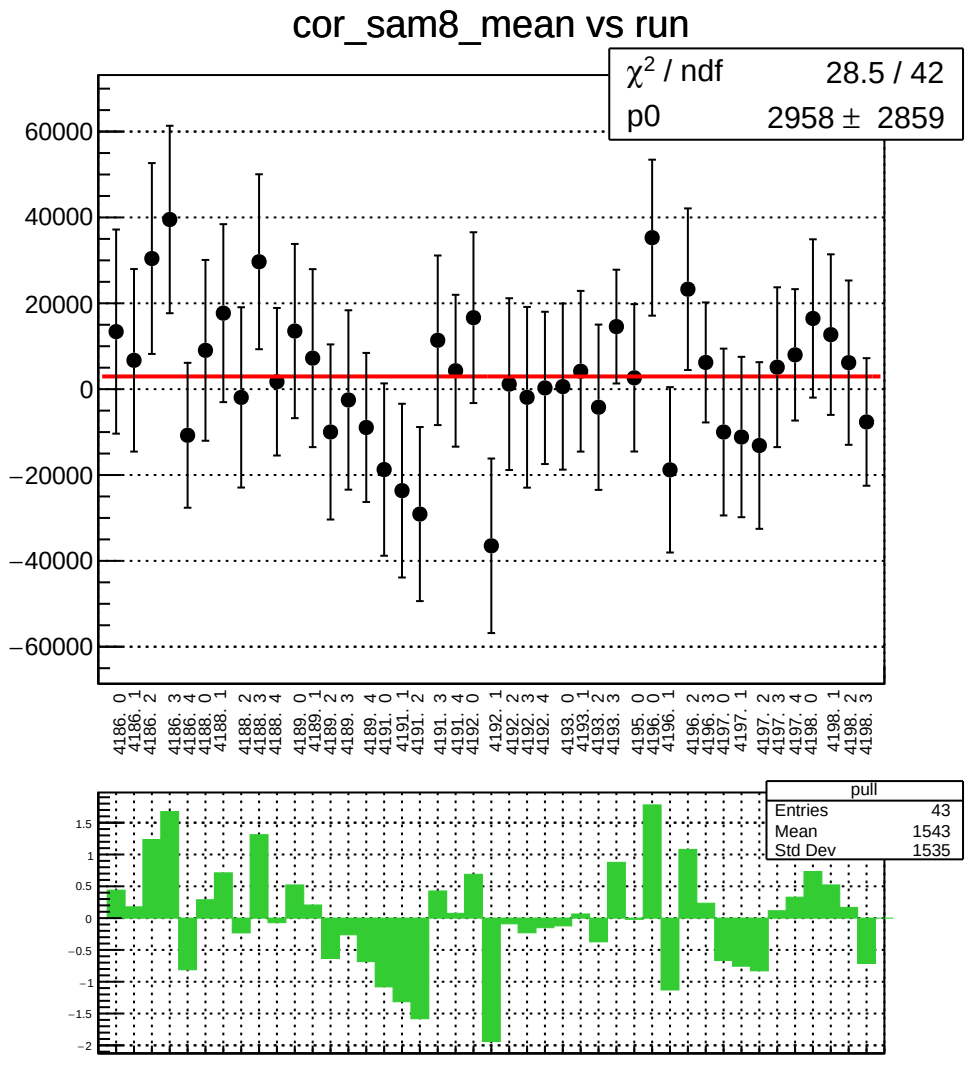

cor_sam6_rms vs run
χ² / ndf 1515 / 42
p0 2691 ± 2.89
3000
2900
2800
2700
2600
2500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

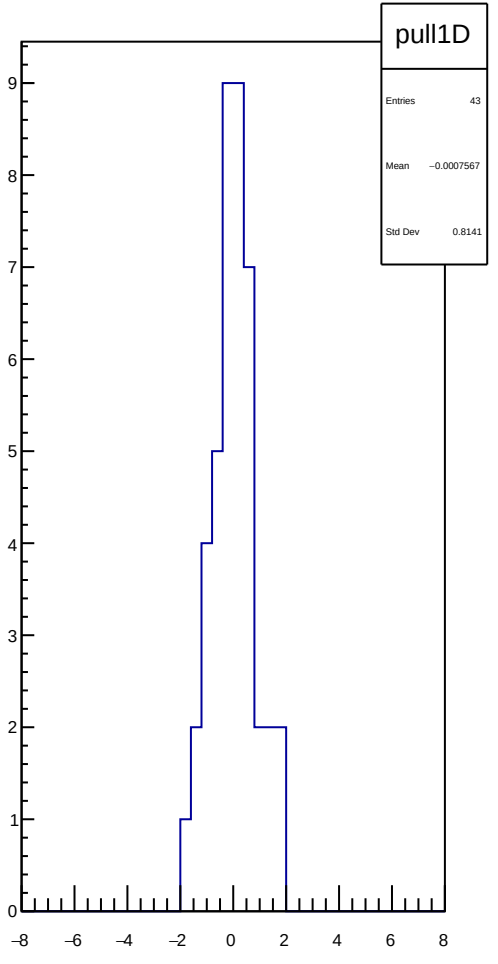

cor_sam7_mean vs run
χ² / ndf 27.86 / 42
p0 2748 ± 2477
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

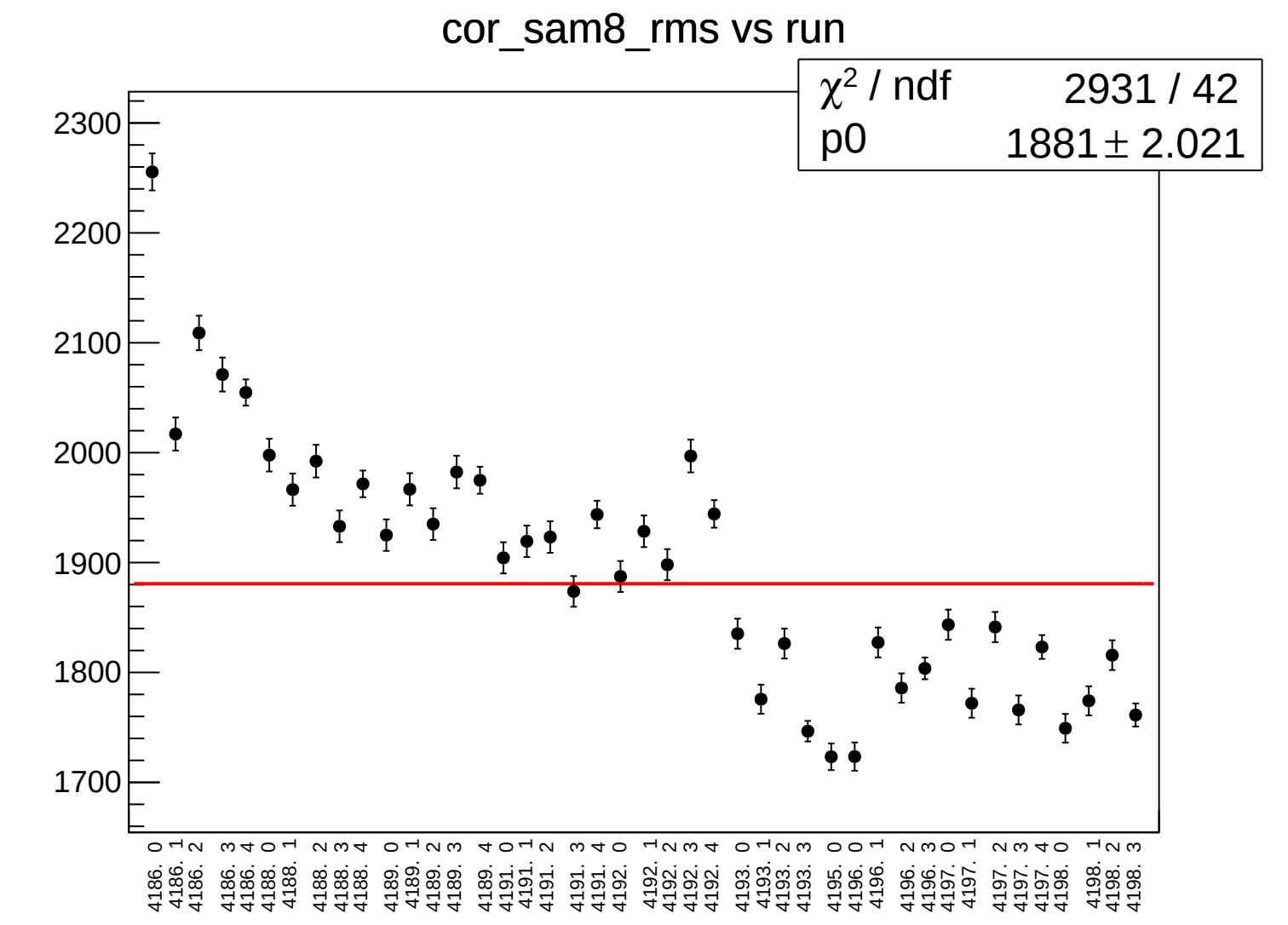

pull
Entries 43
Mean 192.3
Std Dev 188.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

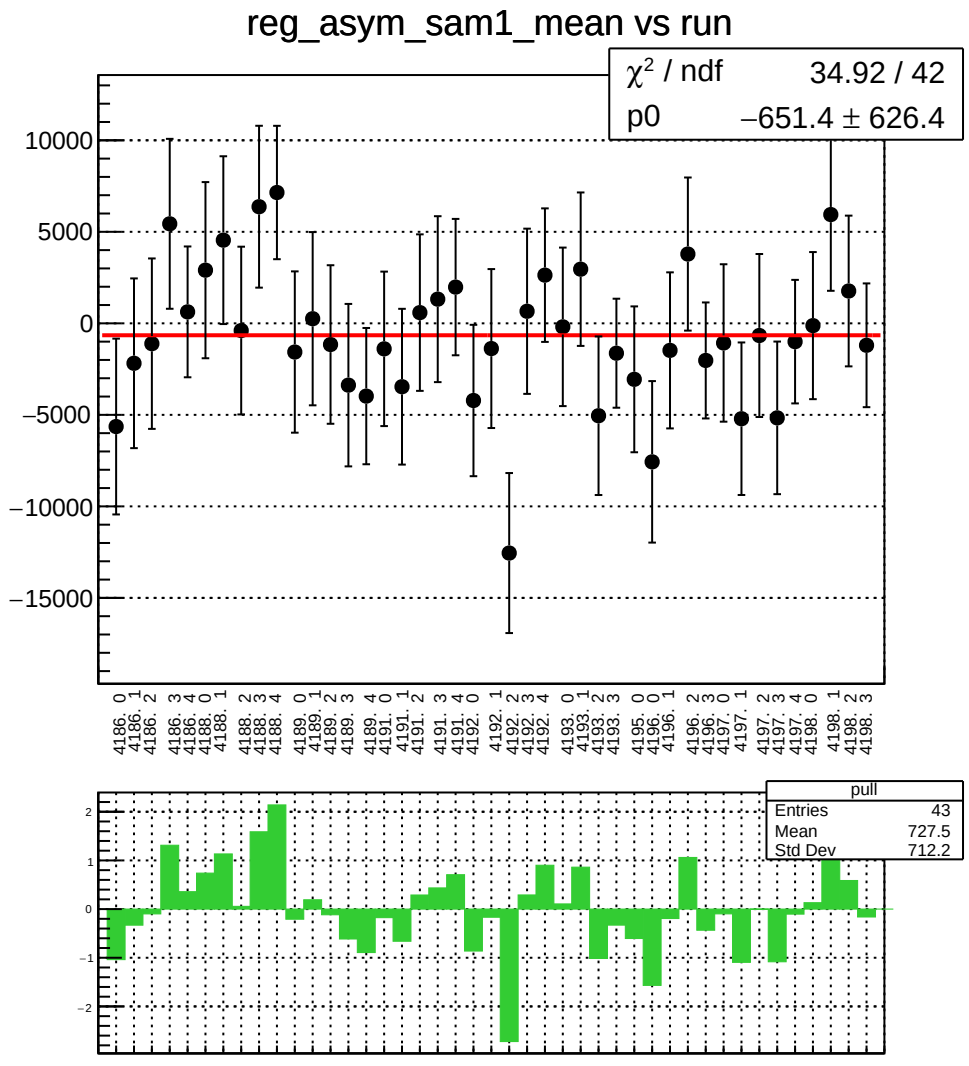

pull1D
Entries 43
Mean −0.003575
Std Dev 0.8049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

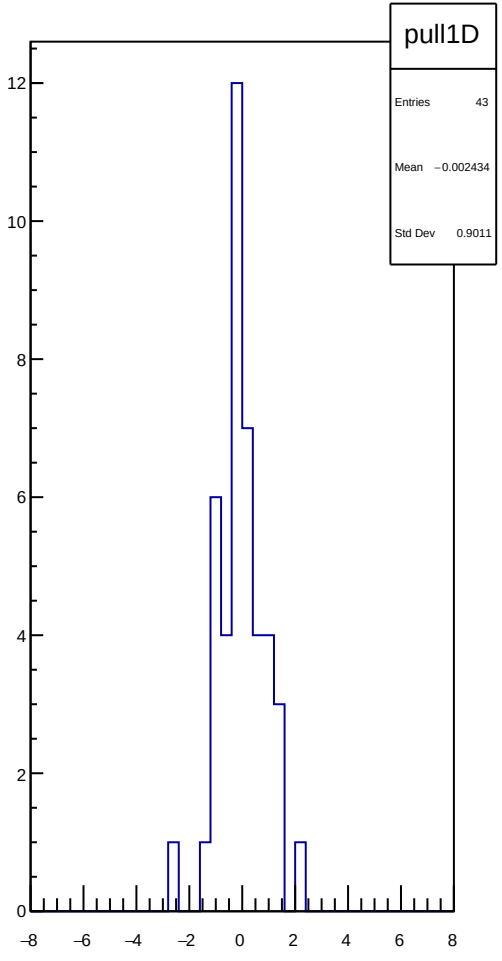

cor_sam7_rms vs run
χ² / ndf 1747 / 42
p0 1631 ± 1.752
2100
2000
1900
1800
1700
1600
1500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

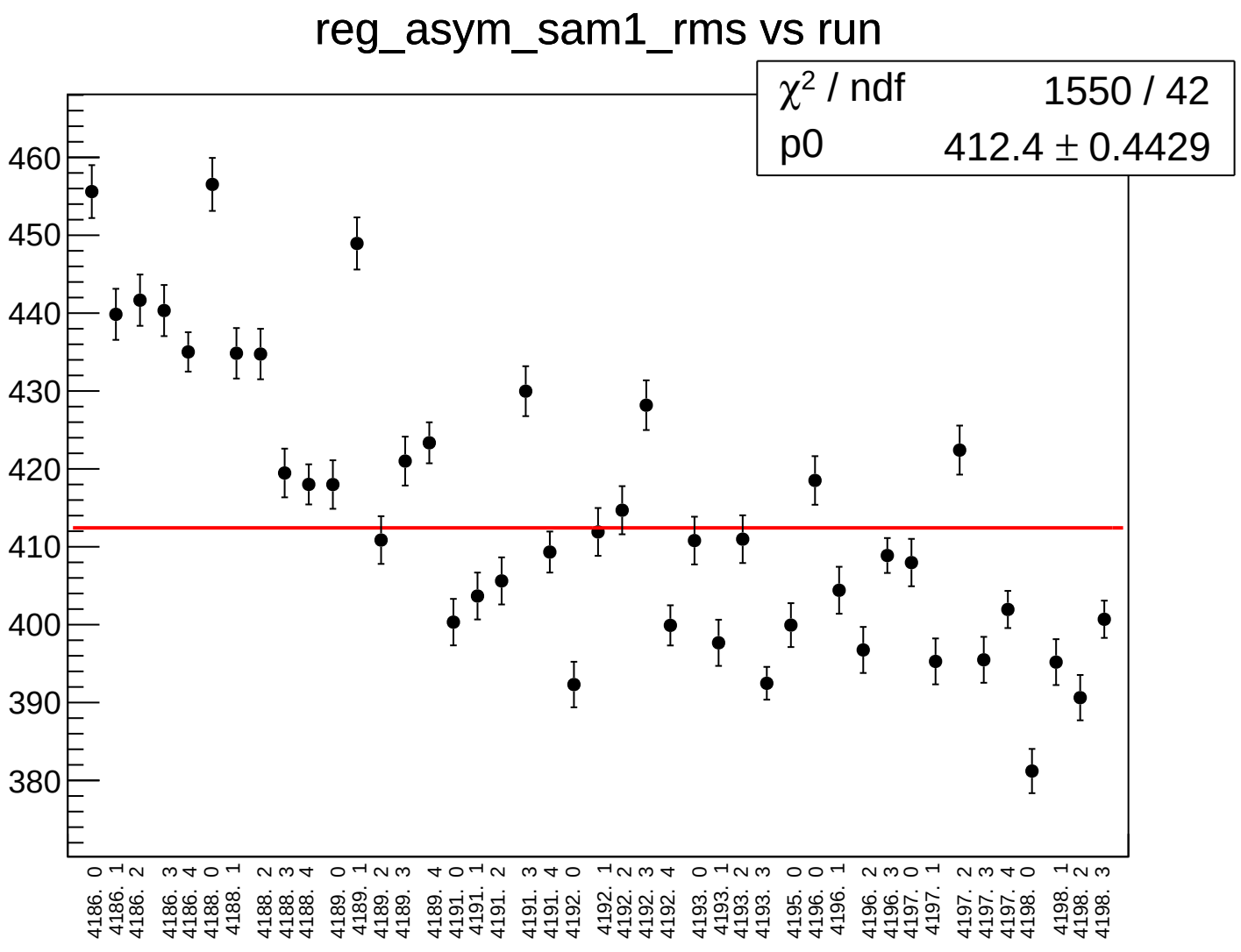

cor_sam8_mean vs run
χ² / ndf 28.5 / 42
p0 2958 ± 2859
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1543
Std Dev 1535
1.5
1
0.5
0
−0.5
−1
−1.5
−2

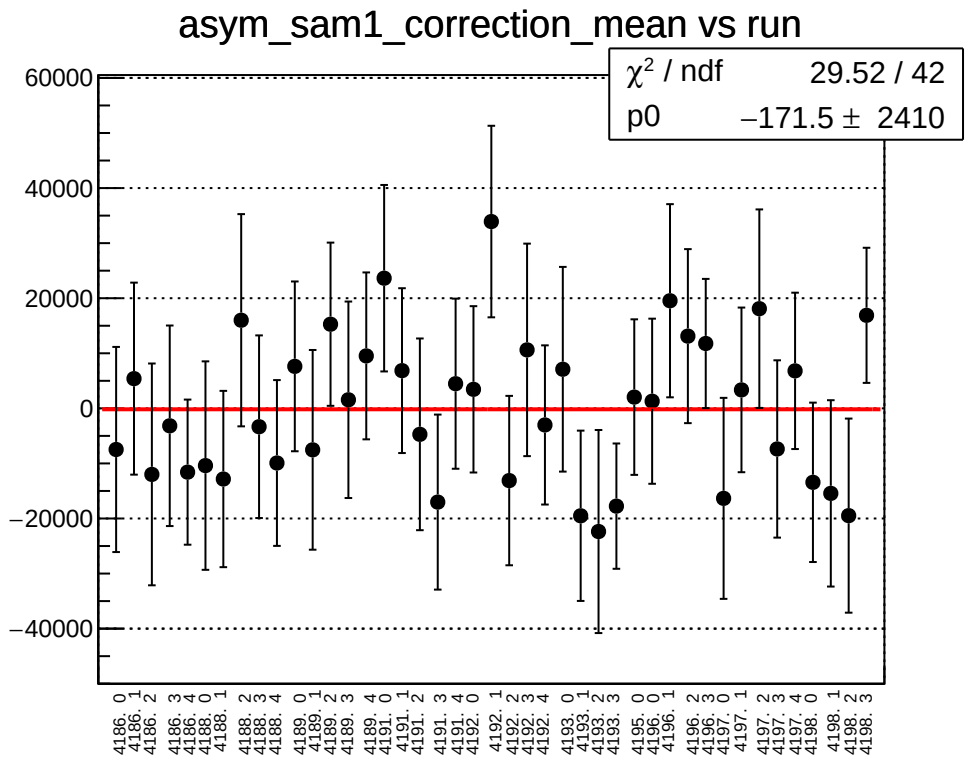

pull1D
Entries 43
Mean −0.0007567
Std Dev 0.8141
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

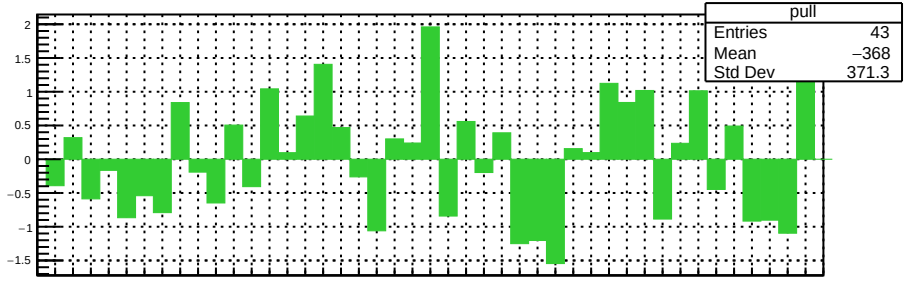

cor_sam8_rms vs run
χ² / ndf 2931 / 42
p0 1881 ± 2.021
2300
2200
2100
2000
1900
1800
1700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

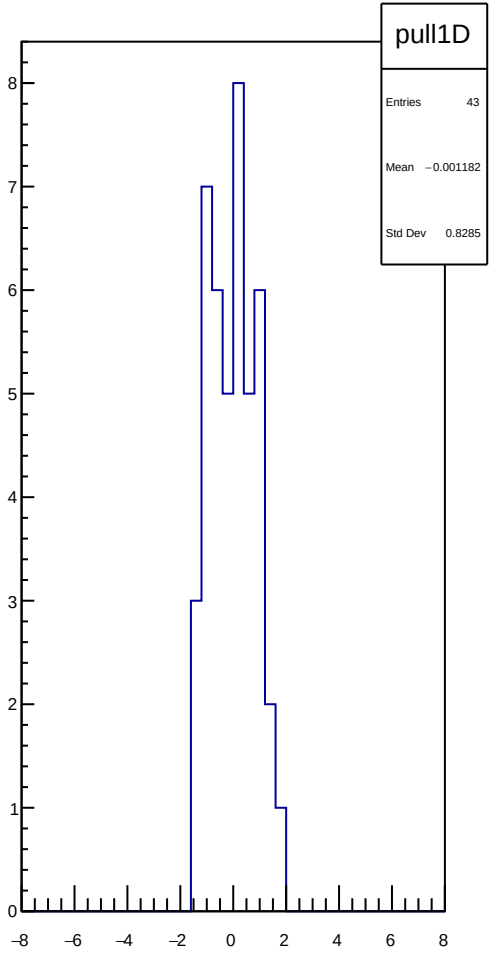

reg_asym_sam1_mean vs run
χ² / ndf 34.92 / 42
p0 −651.4 ± 626.4
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 727.5
Std Dev 712.2
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.002434
Std Dev 0.9011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

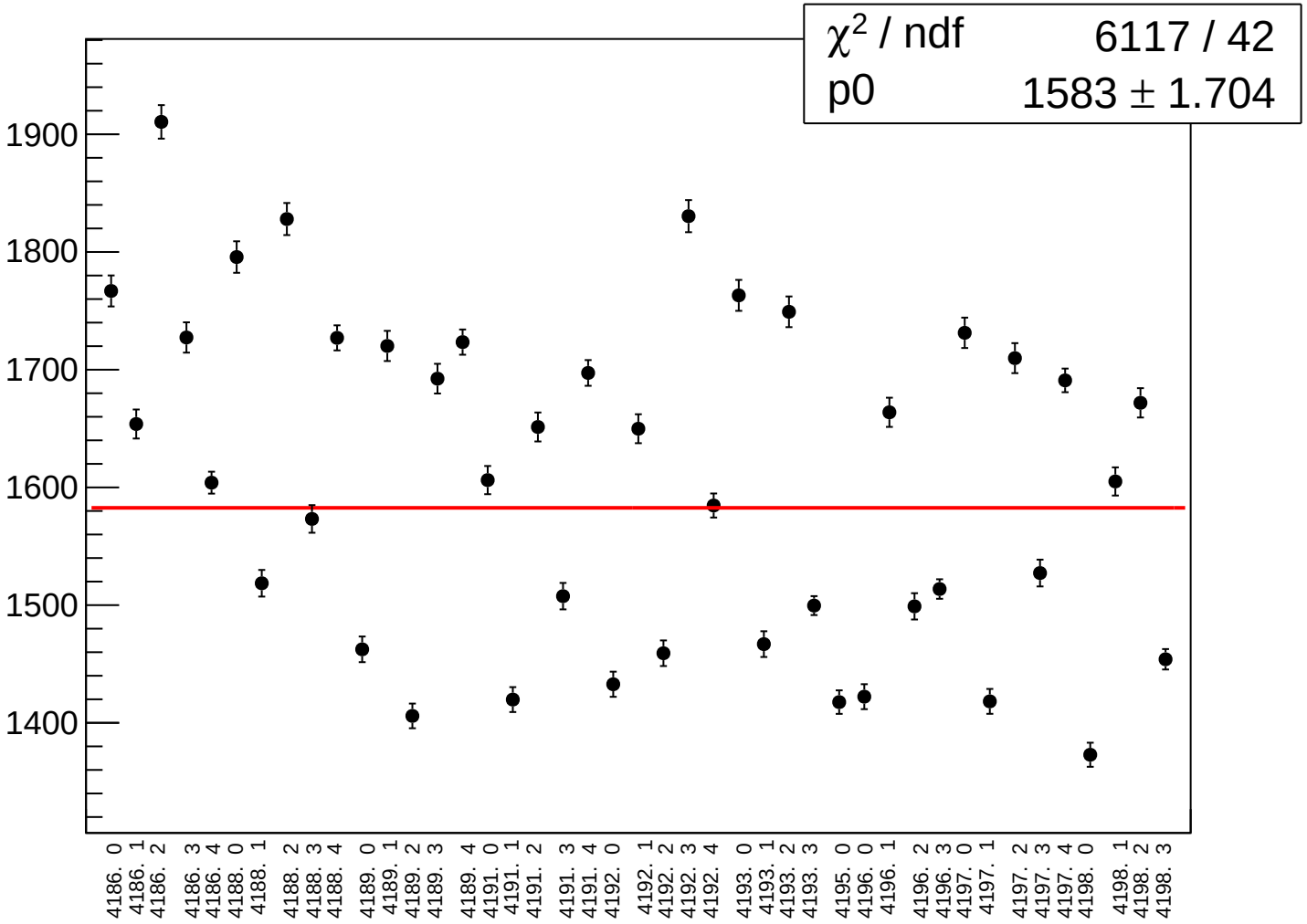

reg_asym_sam1_rms vs run
χ² / ndf 1550 / 42
p0 412.4 ± 0.4429
460
450
440
430
420
410
400
390
380
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

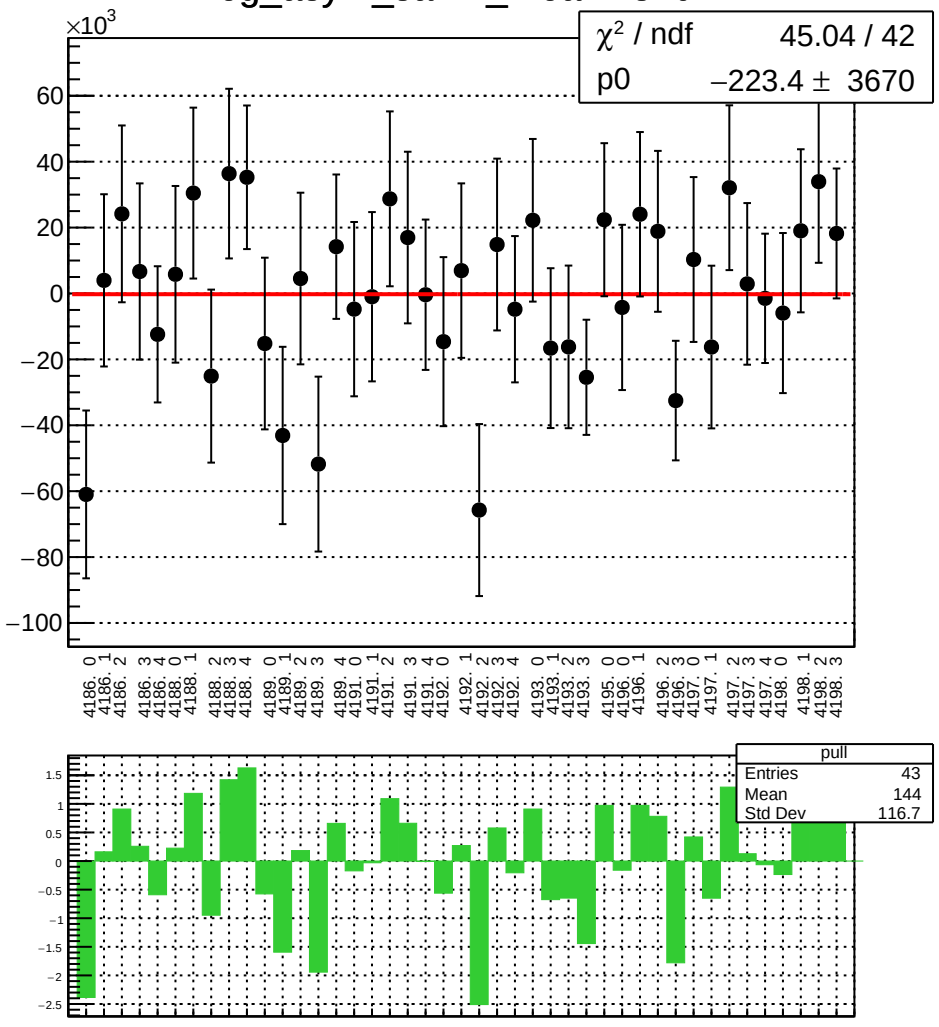

asym_sam1_correction_mean vs run
χ² / ndf 29.52 / 42
p0 −171.5 ± 2410
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

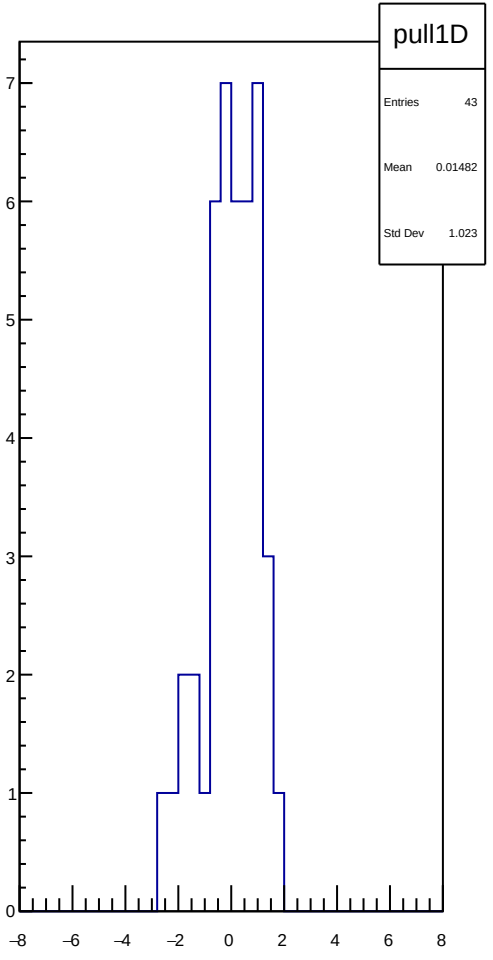

pull
Entries 43
Mean −368
Std Dev 371.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

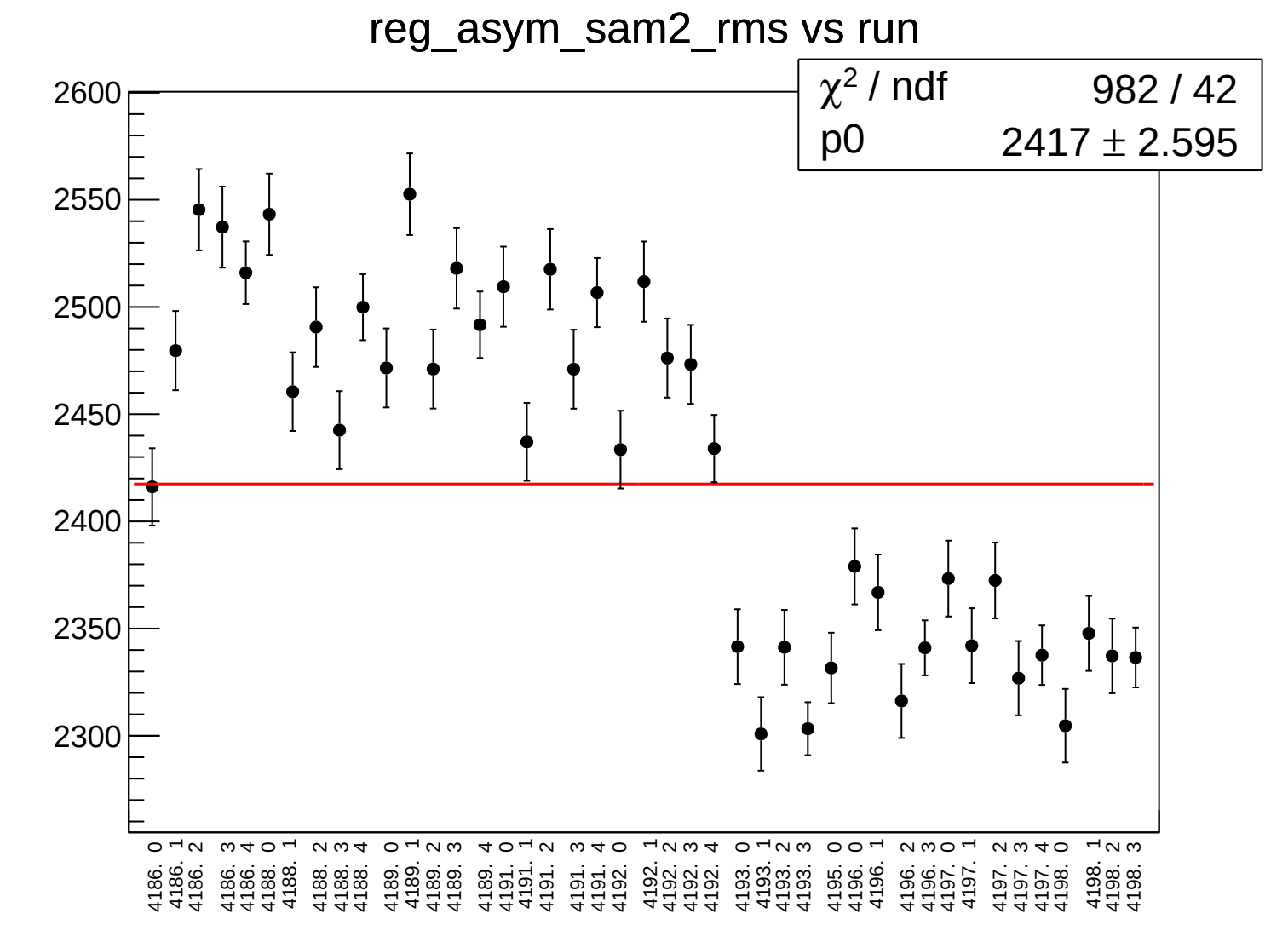

pull1D
Entries 43
Mean −0.001182
Std Dev 0.8285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

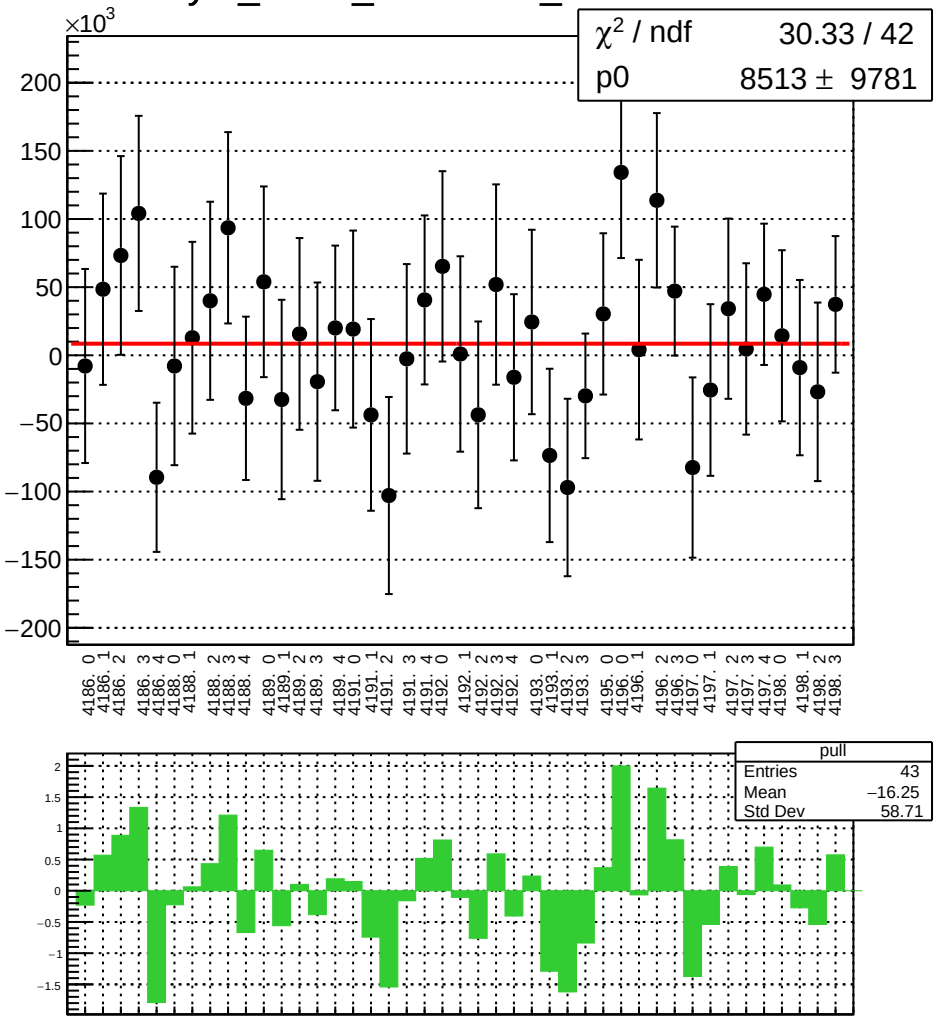
asym_sam1_correction_rms vs run

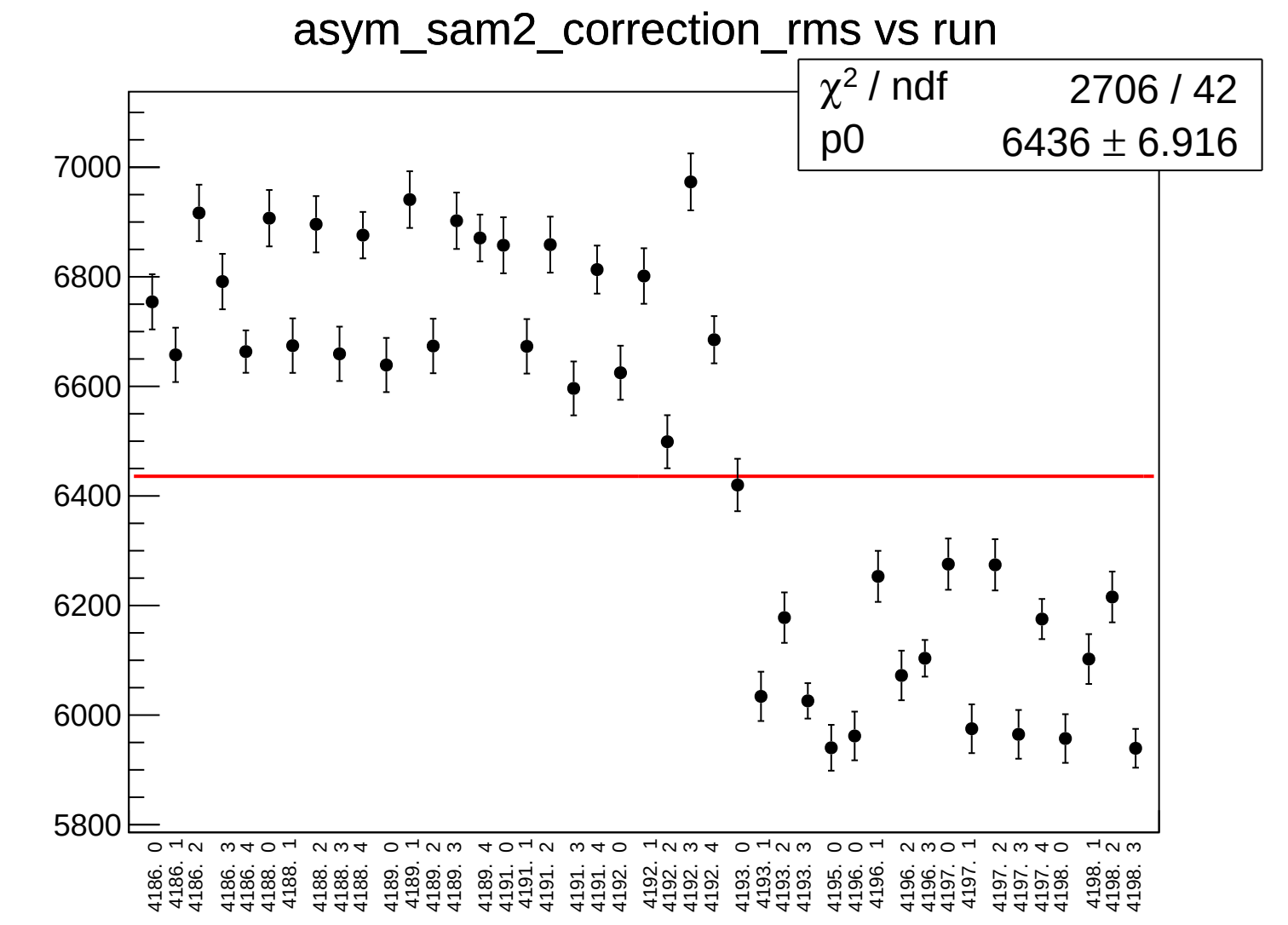


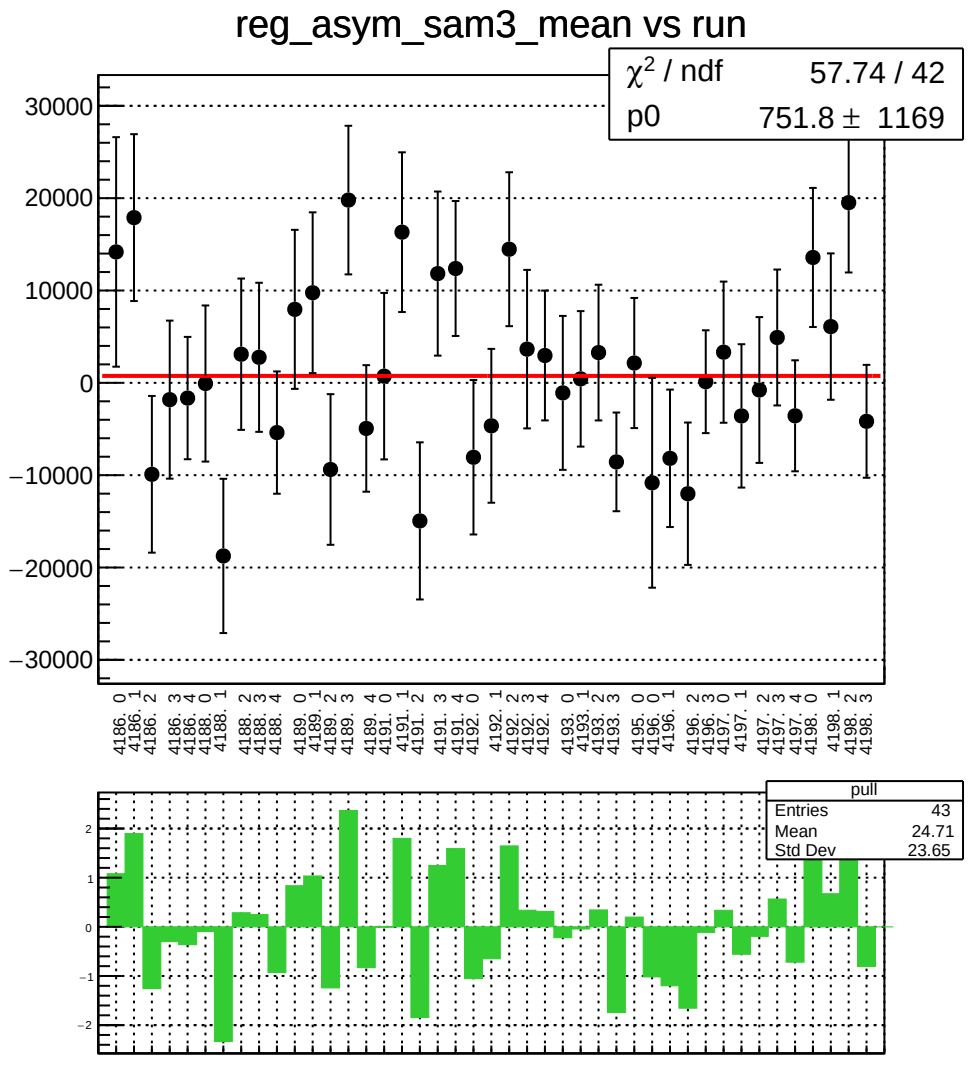

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 45.04 / 42
p0 −223.4 ± 3670
60
40
20
0
−20
−40
−60
−80
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 144
Std Dev 116.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

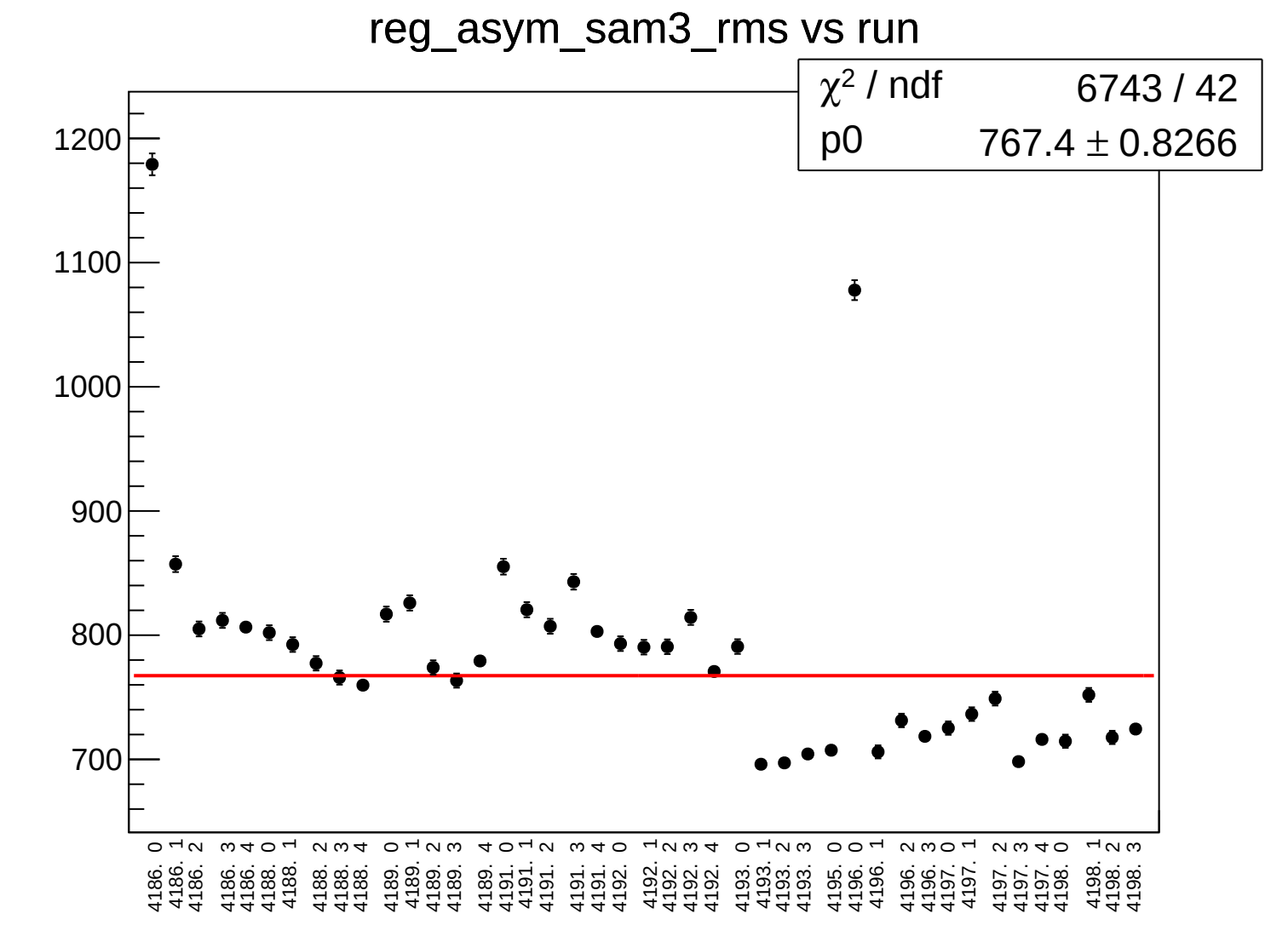

pull1D
Entries 43
Mean 0.01482
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

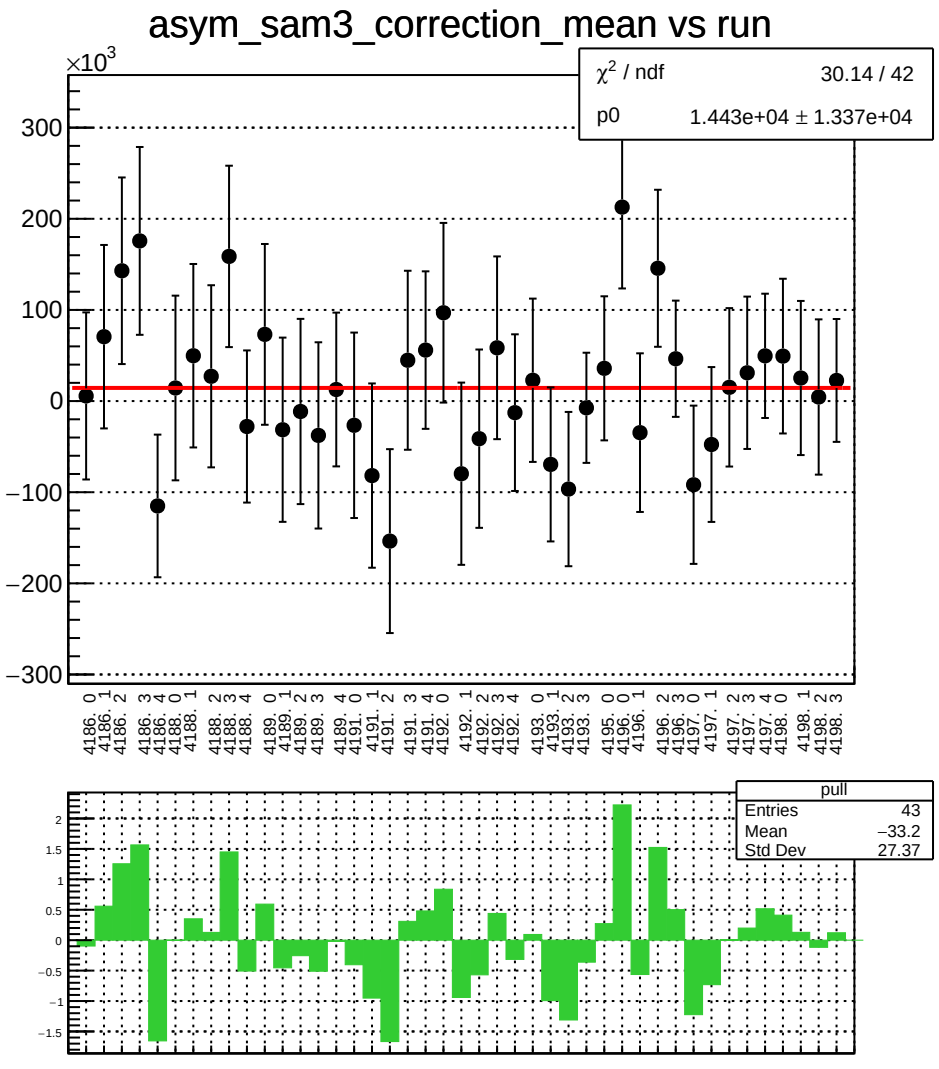

reg_asym_sam2_rms vs run
χ² / ndf 982 / 42
p0 2417 ± 2.595
2600
2550
2500
2450
2400
2350
2300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

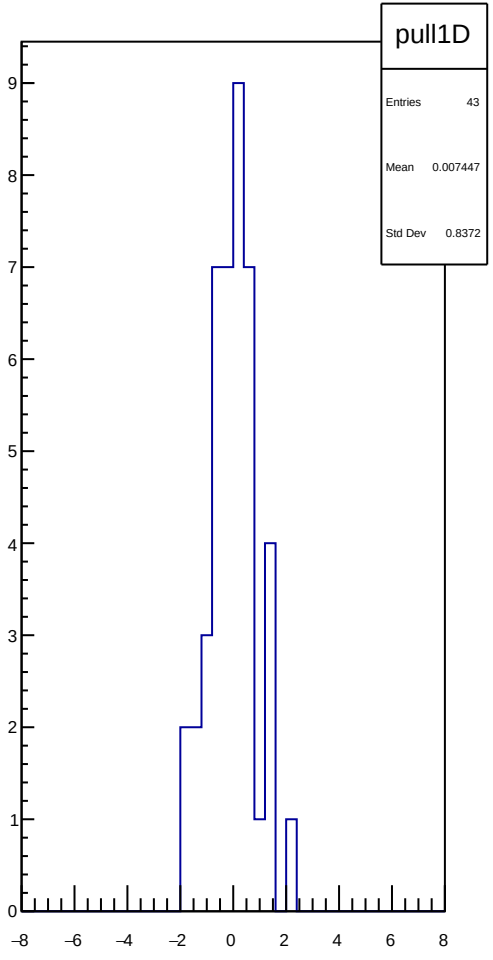

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 30.33 / 42
p0 8513 ± 9781
200
150
100
50
0
−50
−100
−150
−200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −16.25
Std Dev 58.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.003636
Std Dev 0.8398
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

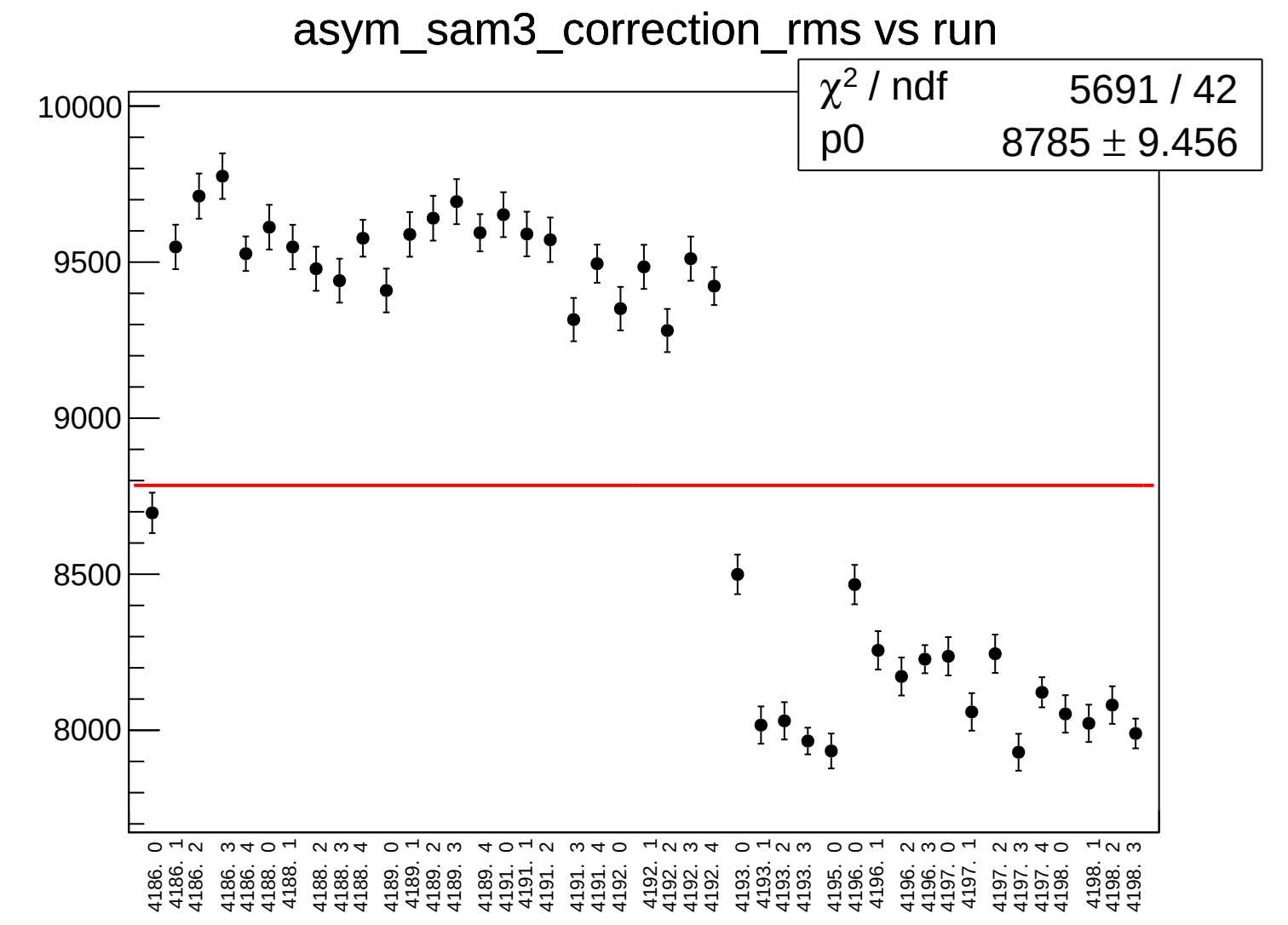

asym_sam2_correction_rms vs run
χ² / ndf 2706 / 42
p0 6436 ± 6.916
7000
6800
6600
6400
6200
6000
5800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

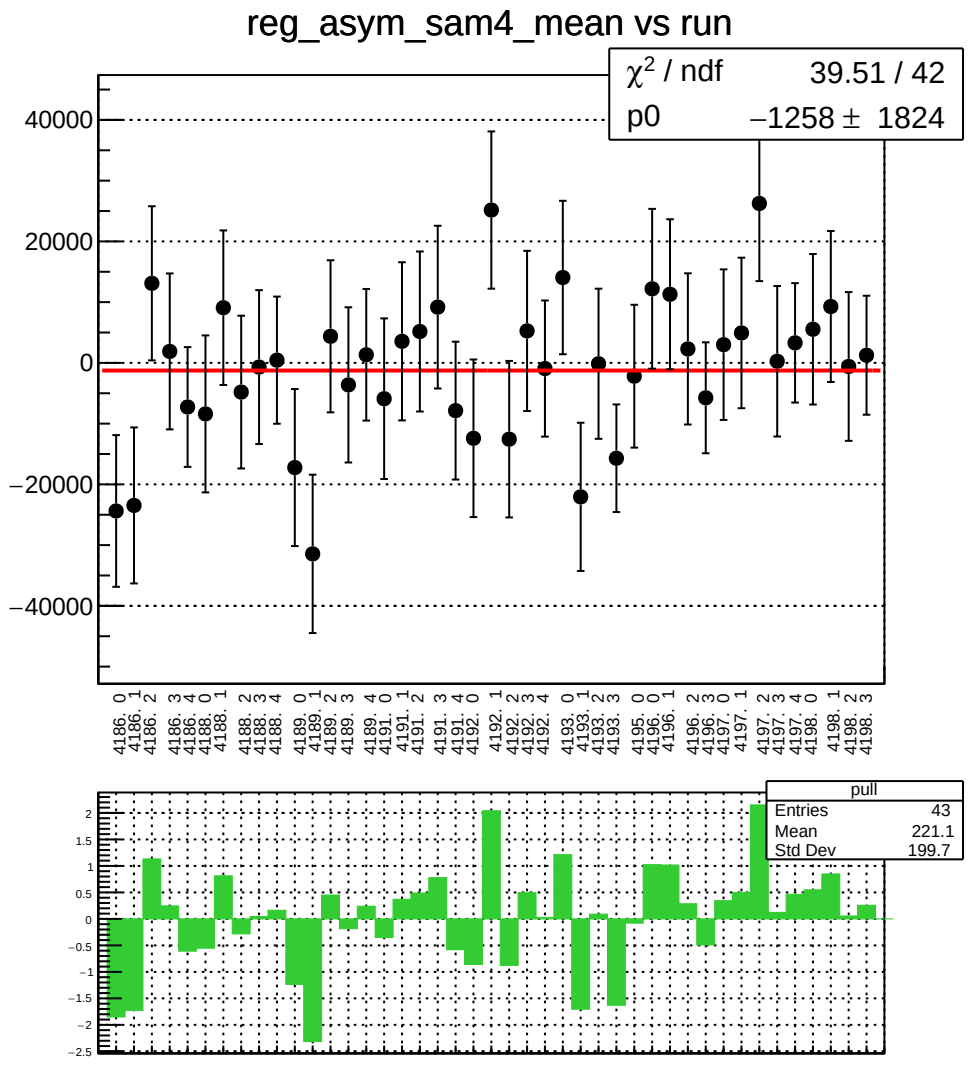

reg_asym_sam3_mean vs run
χ² / ndf 57.74 / 42
p0 751.8 ± 1169
30000
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 24.71
Std Dev 23.65
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04231
Std Dev 1.158
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

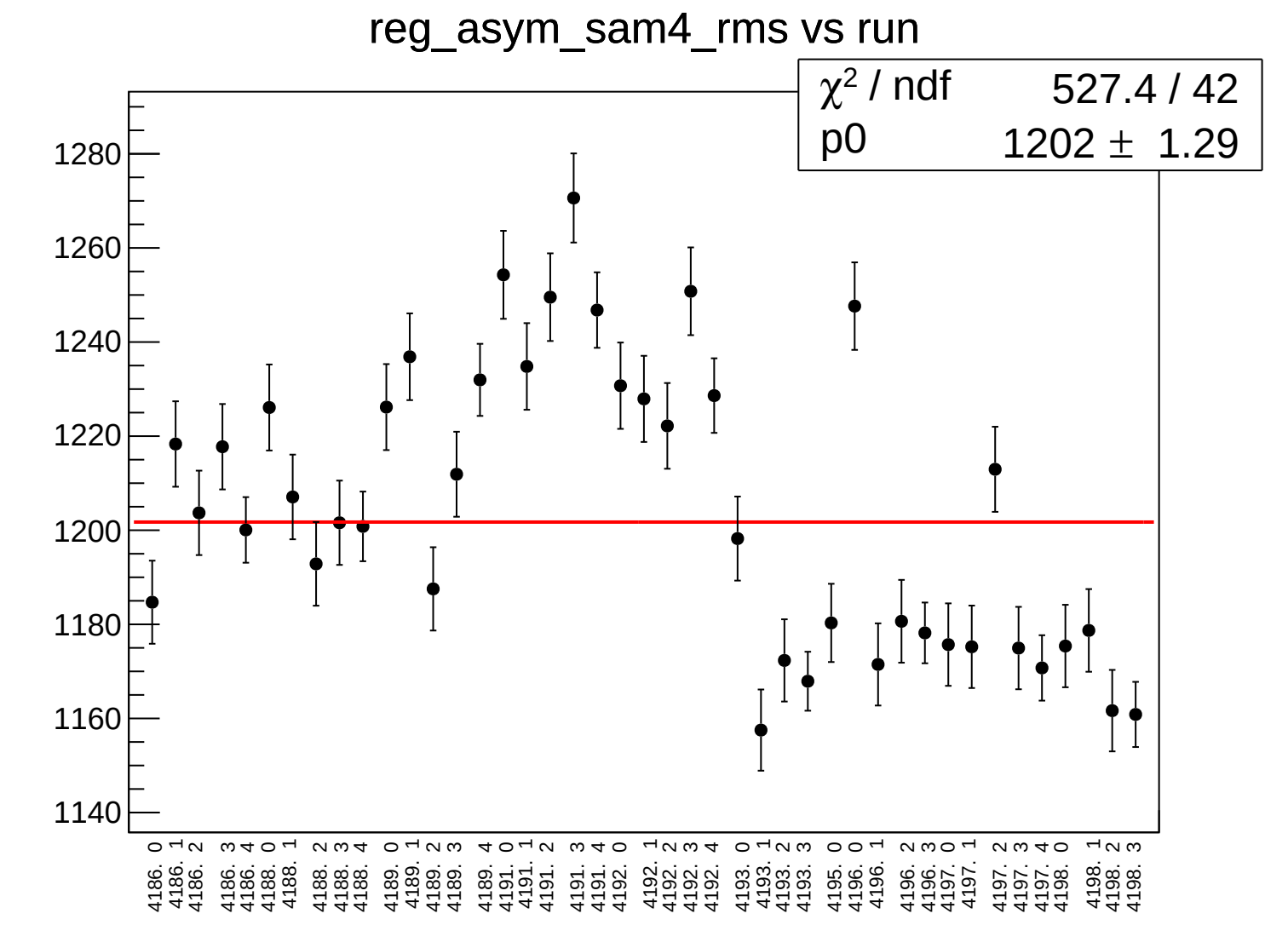

reg_asym_sam3_rms vs run
χ² / ndf 6743 / 42
p0 767.4 ± 0.8266
1200
1100
1000
900
800
700
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

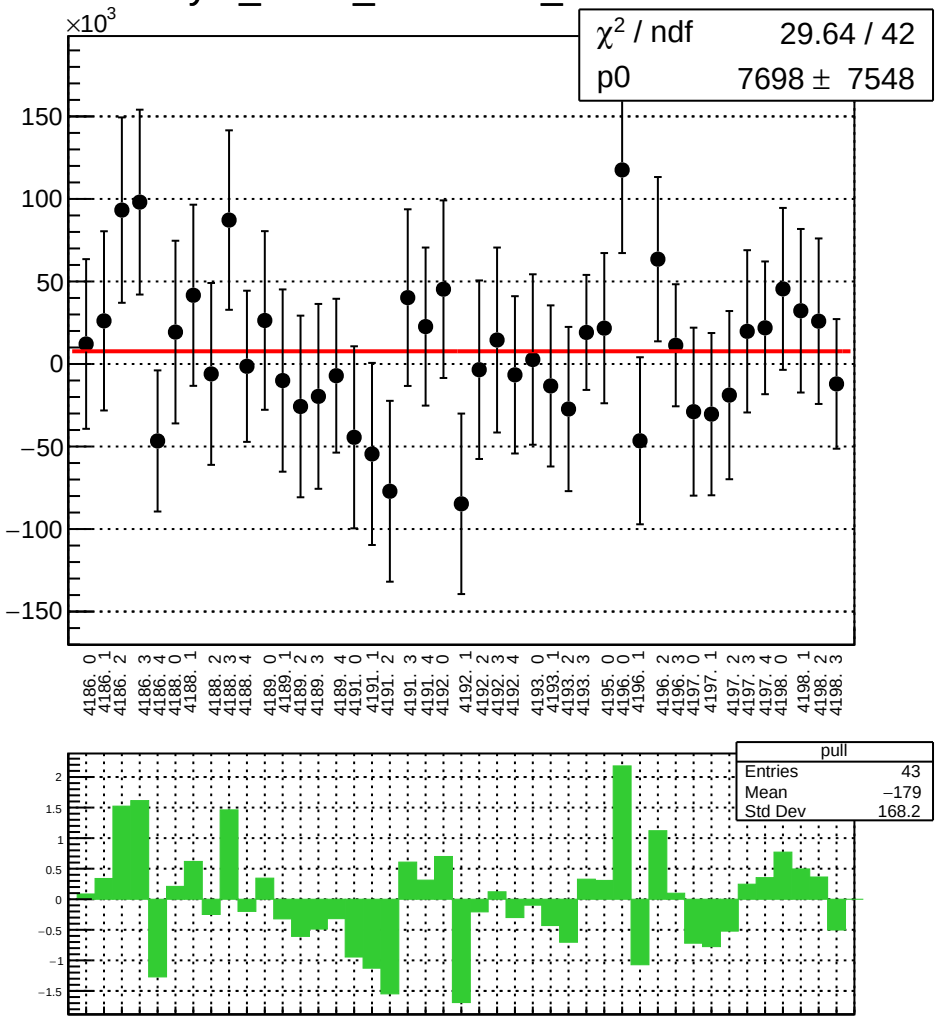

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 30.14 / 42
p0 1.443e+04 ± 1.337e+04
300
200
100
0
−100
−200
−300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −33.2
Std Dev 27.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

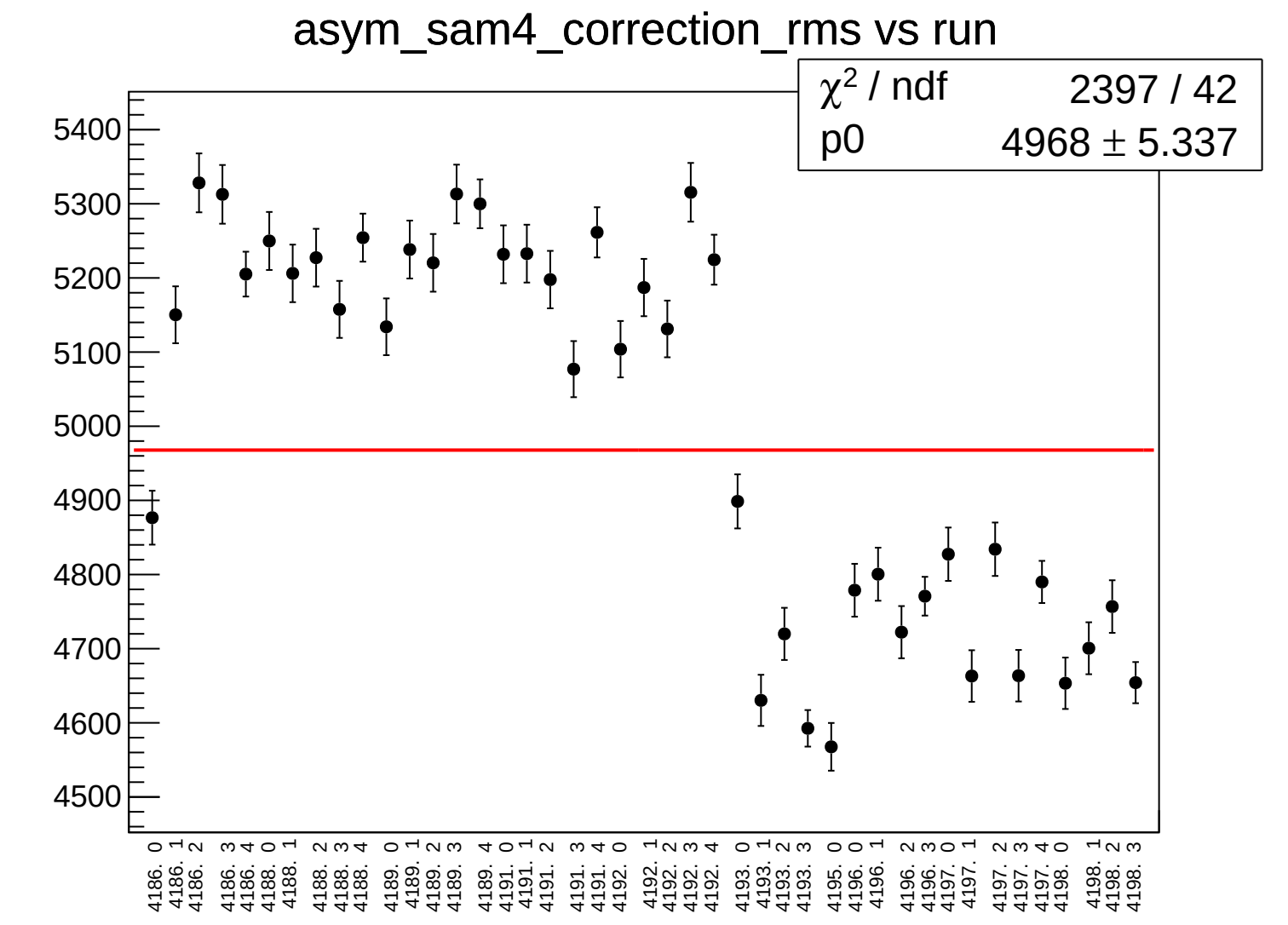

pull1D
Entries 43
Mean 0.007447
Std Dev 0.8372
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

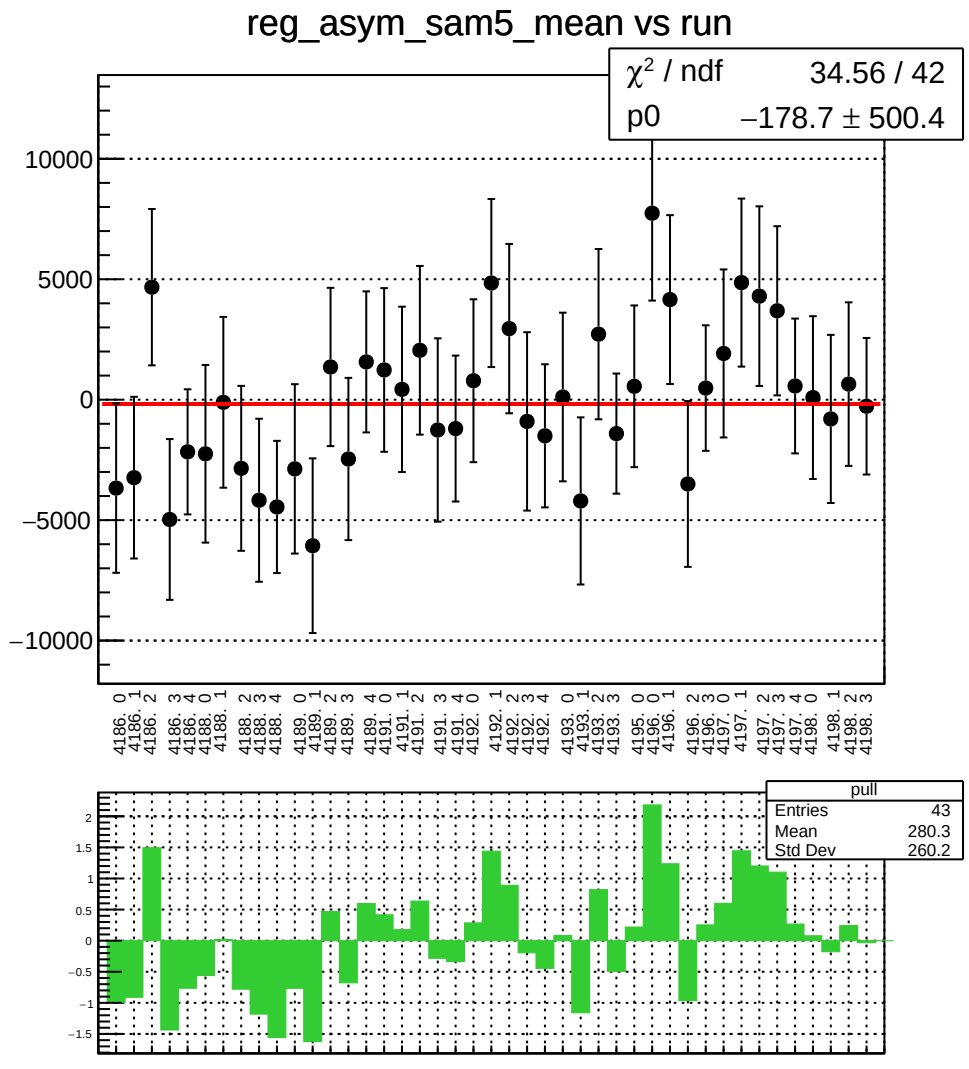

asym_sam3_correction_rms vs run
χ² / ndf 5691 / 42
p0 8785 ± 9.456
10000
9500
9000
8500
8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

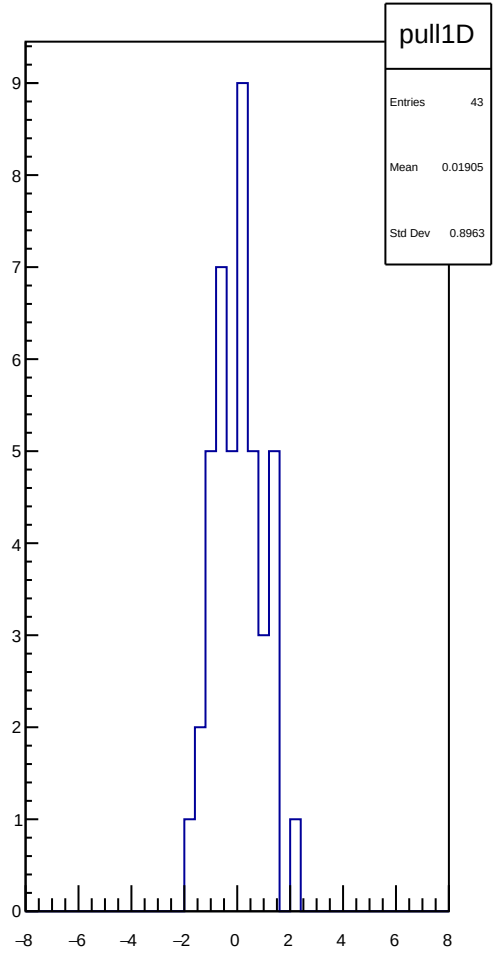

reg_asym_sam4_mean vs run
χ² / ndf 39.51 / 42
p0 −1258 ± 1824
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 221.1
Std Dev 199.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02029
Std Dev 0.9584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

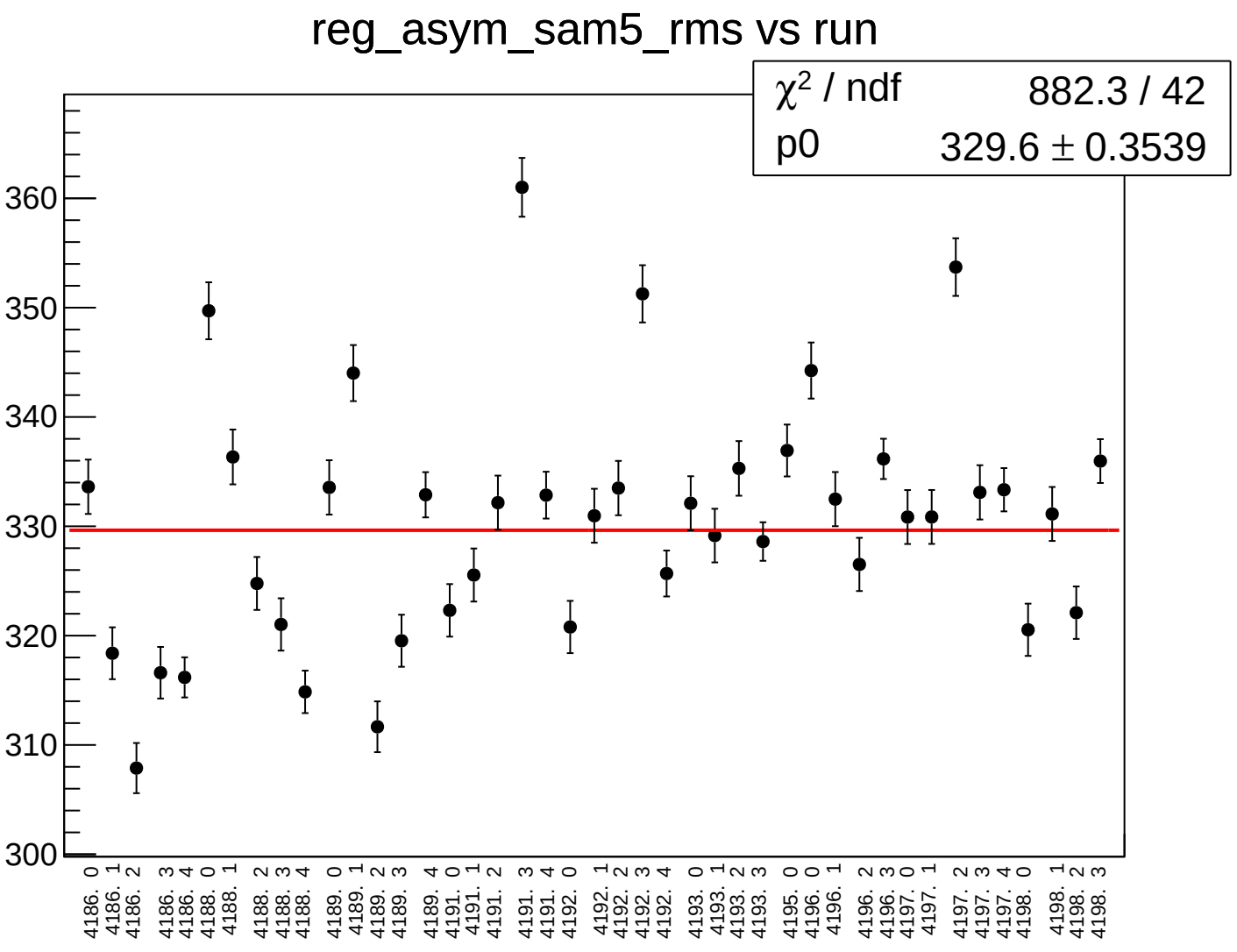

reg_asym_sam4_rms vs run
χ² / ndf 527.4 / 42
p0 1202 ± 1.29
1280
1260
1240
1220
1200
1180
1160
1140
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

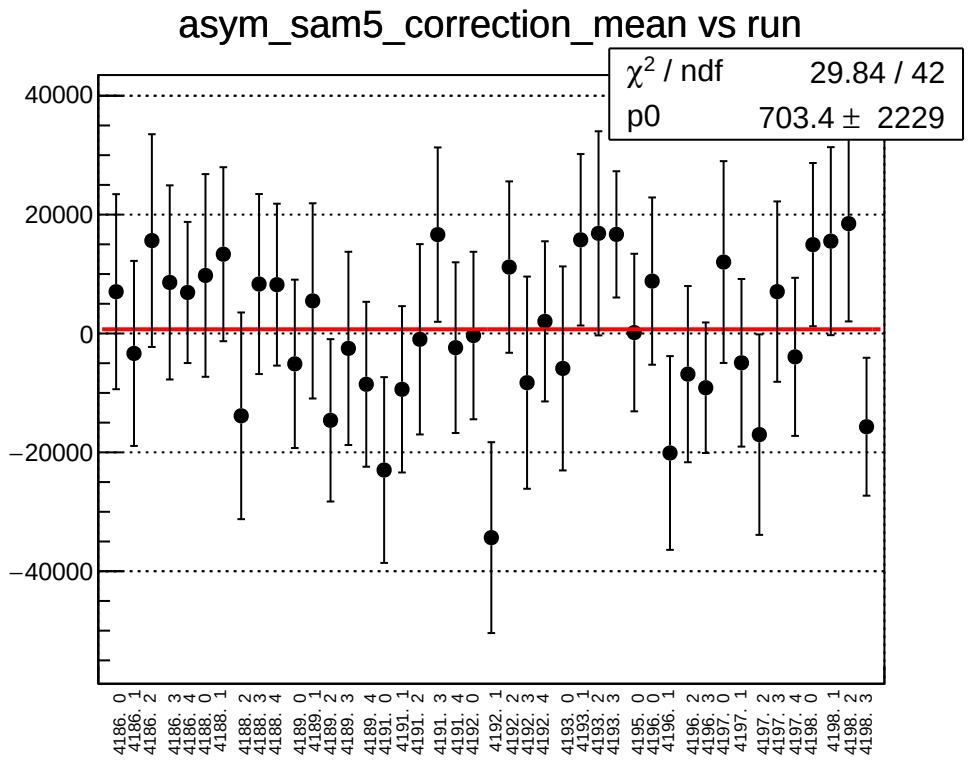

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 29.64 / 42
p0 7698 ± 7548
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −179
Std Dev 168.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.002773
Std Dev 0.8303
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

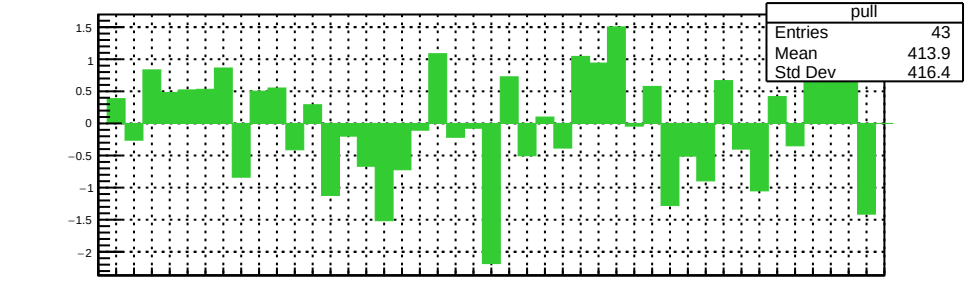

asym_sam4_correction_rms vs run
χ^2 / ndf 2397 / 42
p0 4968 ± 5.337
5400
5300
5200
5100
5000
4900
4800
4700
4600
4500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

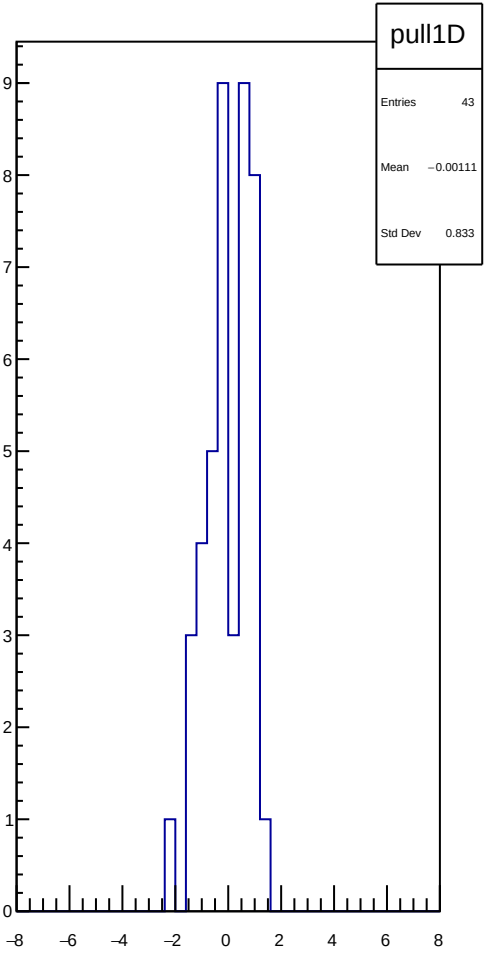

reg_asym_sam5_mean vs run
χ² / ndf 34.56 / 42
p0 −178.7 ± 500.4
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 280.3
Std Dev 260.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

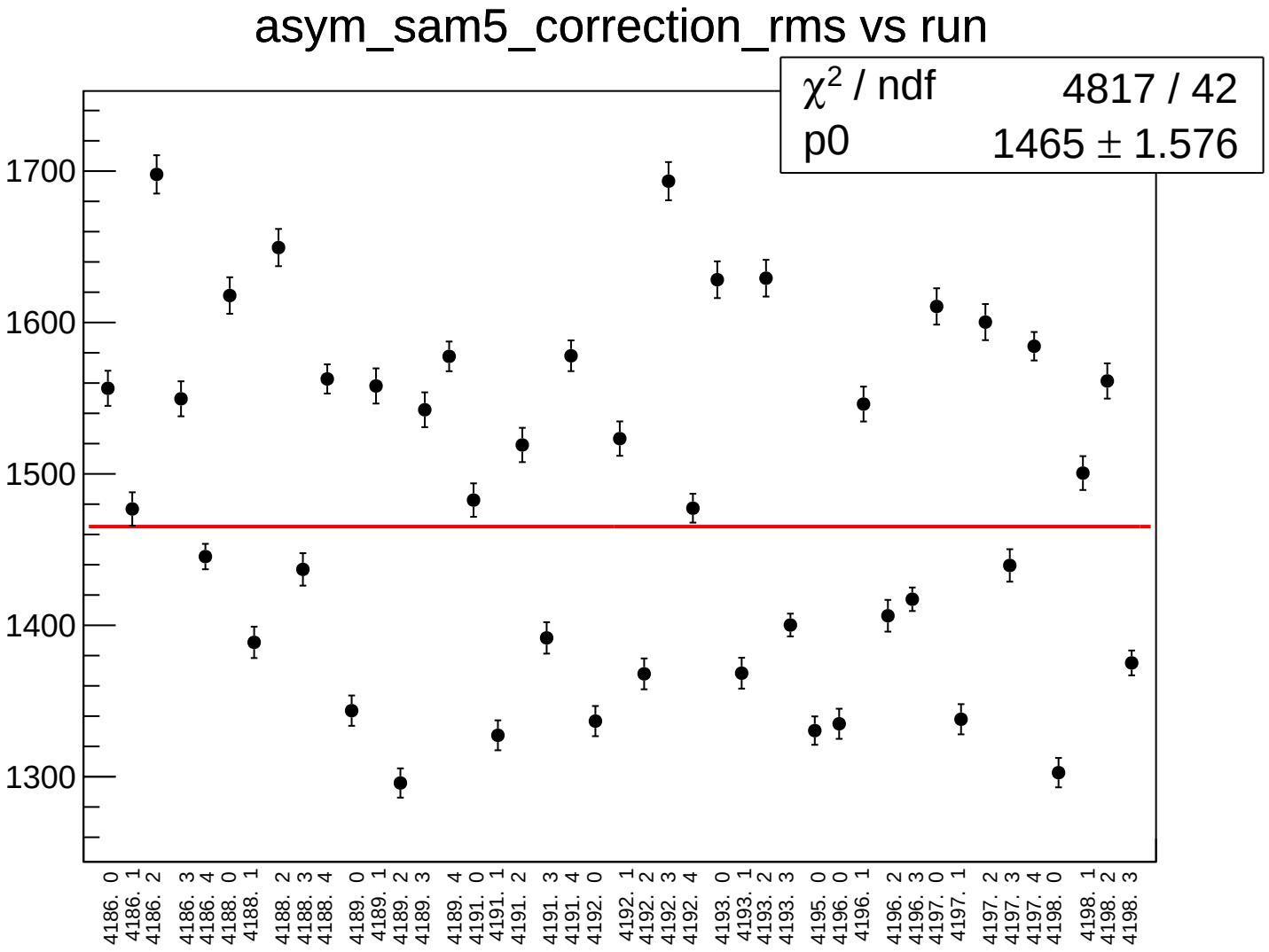

pull1D
Entries 43
Mean 0.01905
Std Dev 0.8963
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

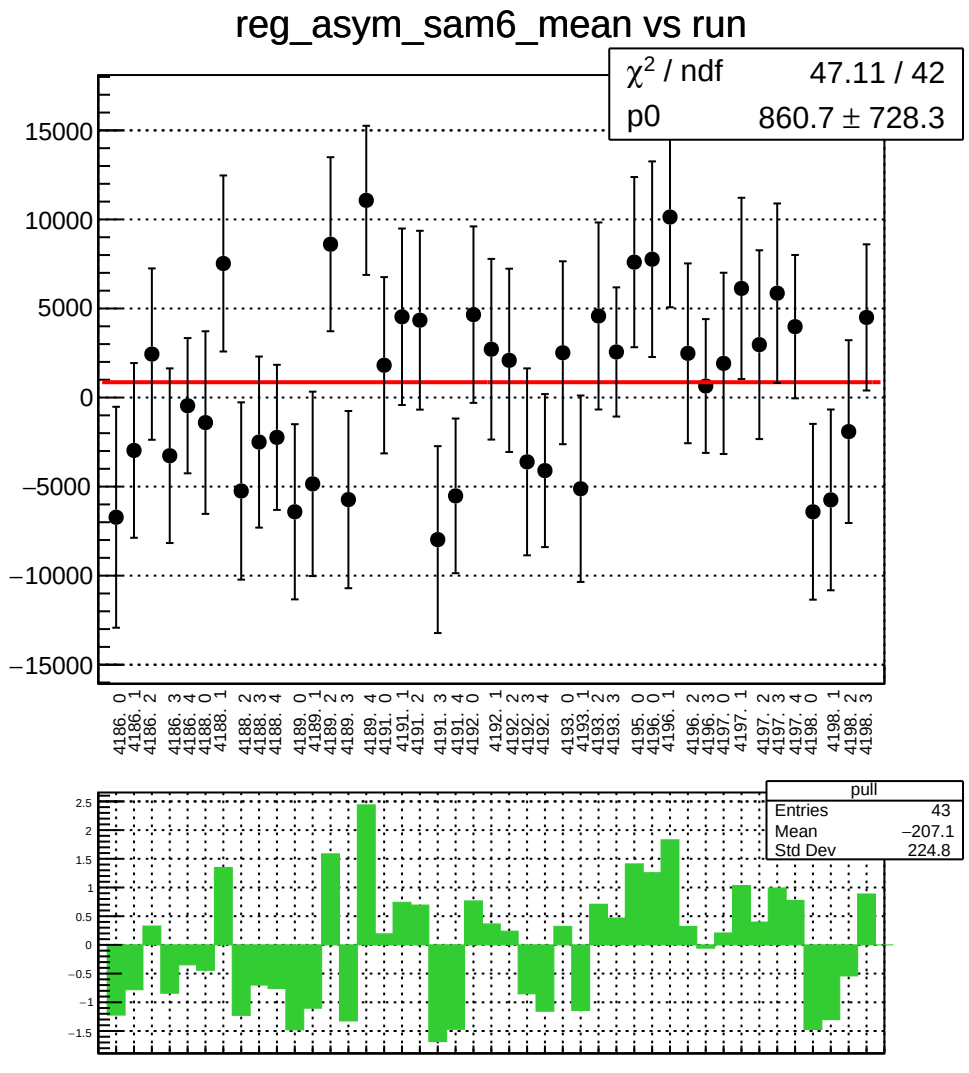

reg_asym_sam5_rms vs run
χ² / ndf 882.3 / 42
p0 329.6 ± 0.3539
360
350
340
330
320
310
300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

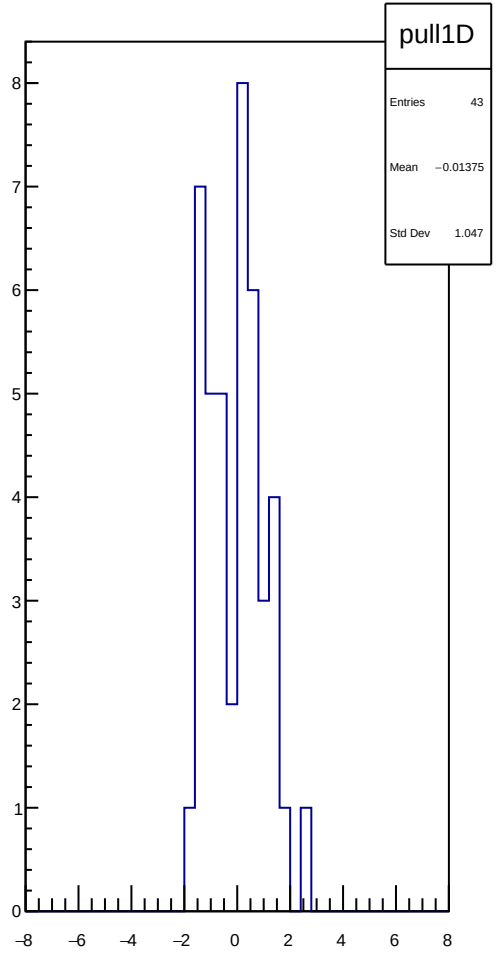

asym_sam5_correction_mean vs run
χ² / ndf 29.84 / 42
p0 703.4 ± 2229
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

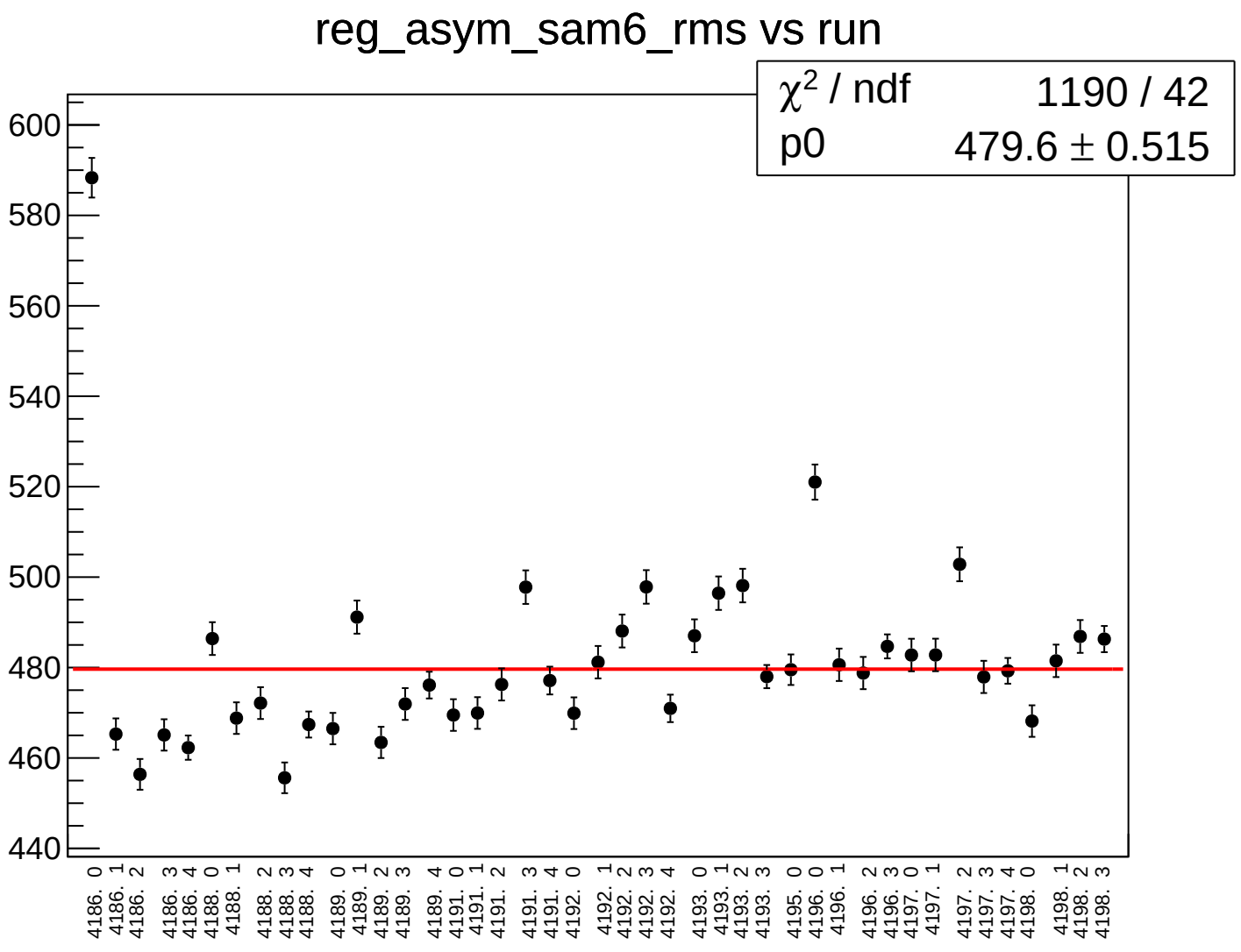

pull
Entries 43
Mean 413.9
Std Dev 416.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

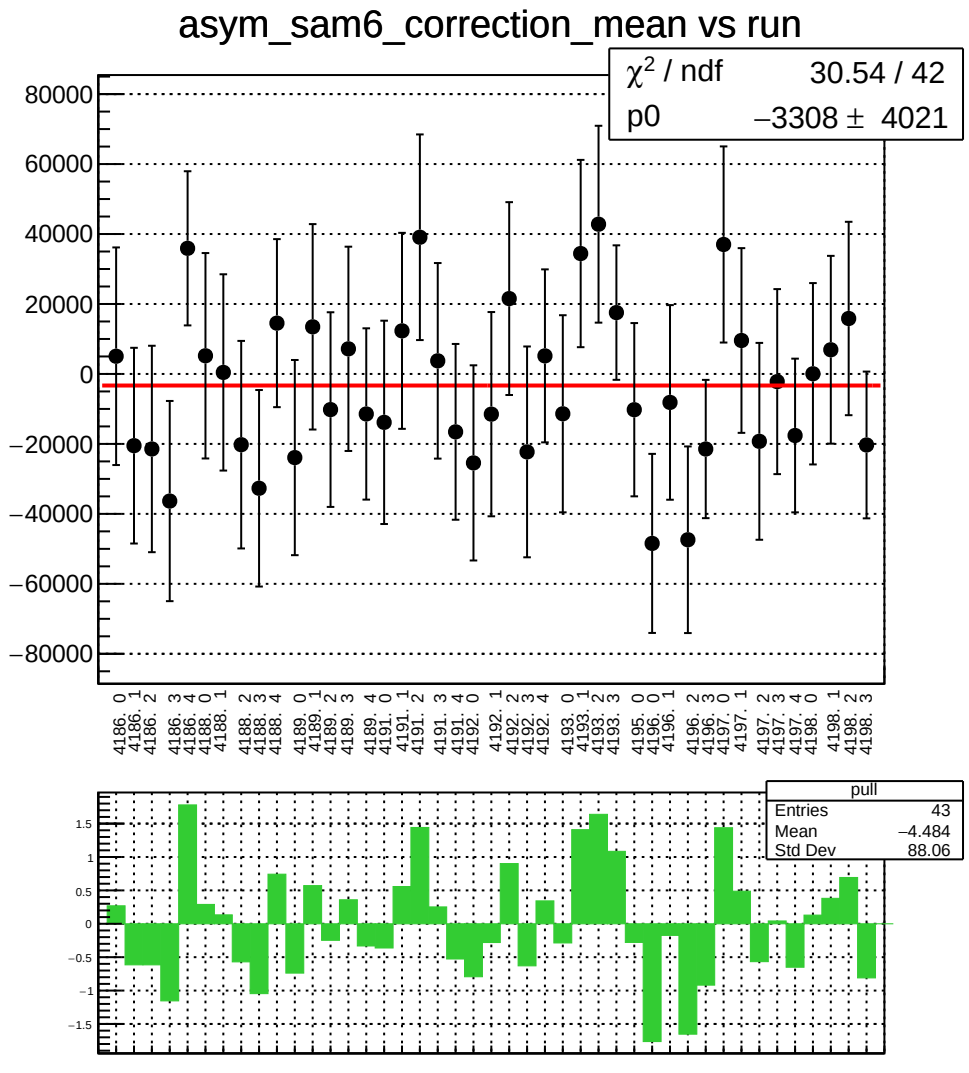

pull1D
Entries 43
Mean −0.00111
Std Dev 0.833
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

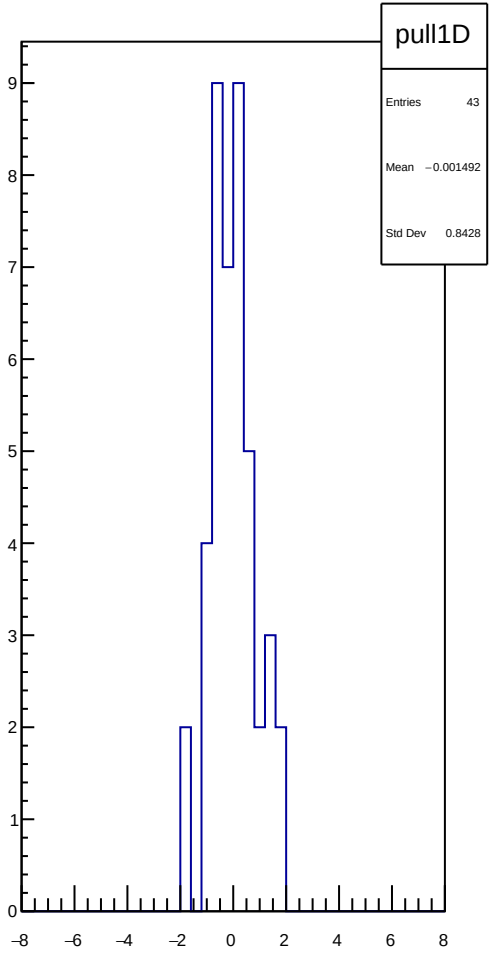

asym_sam5_correction_rms vs run
χ² / ndf 4817 / 42
p0 1465 ± 1.576
1700
1600
1500
1400
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

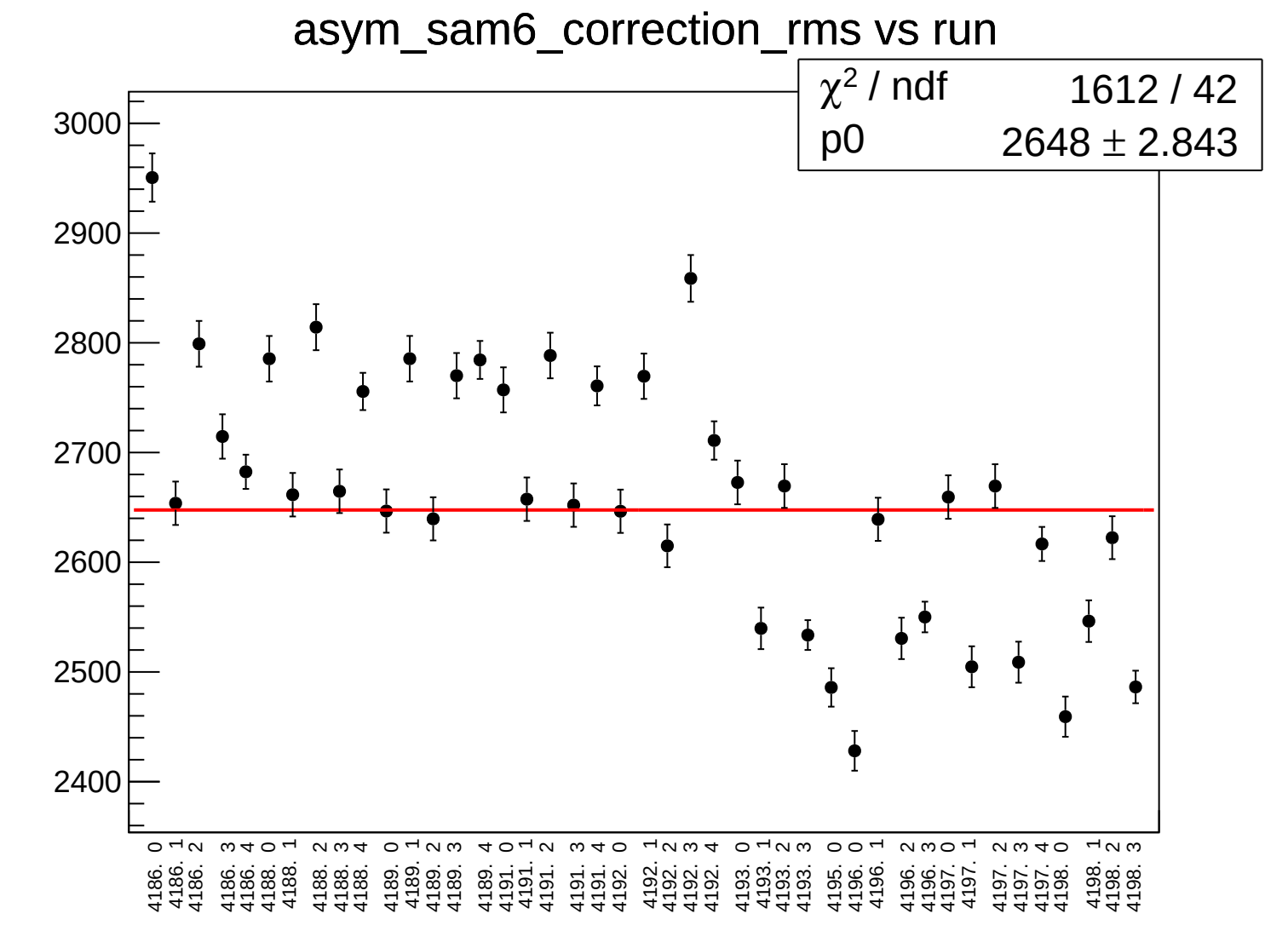

reg_asym_sam6_mean vs run
χ² / ndf 47.11 / 42
p0 860.7 ± 728.3
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −207.1
Std Dev 224.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

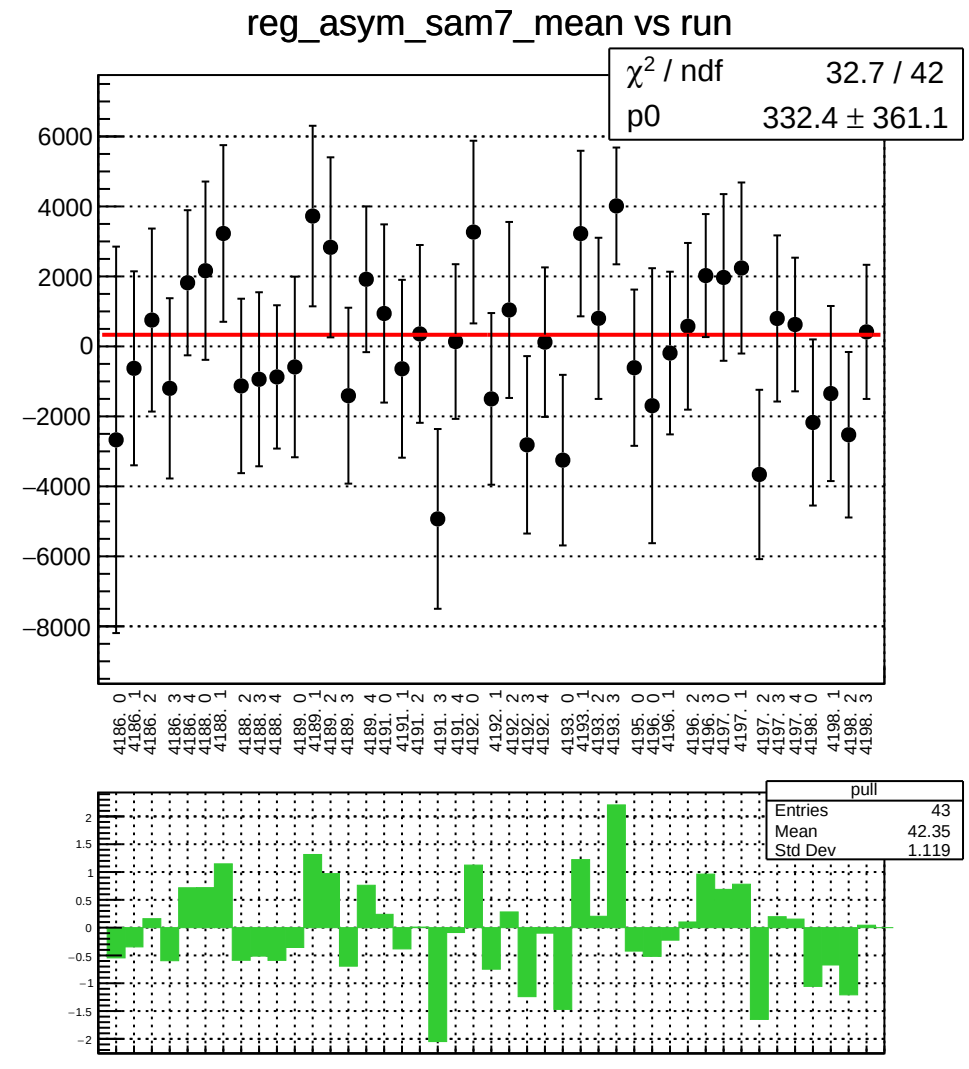

pull1D
Entries 43
Mean −0.01375
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

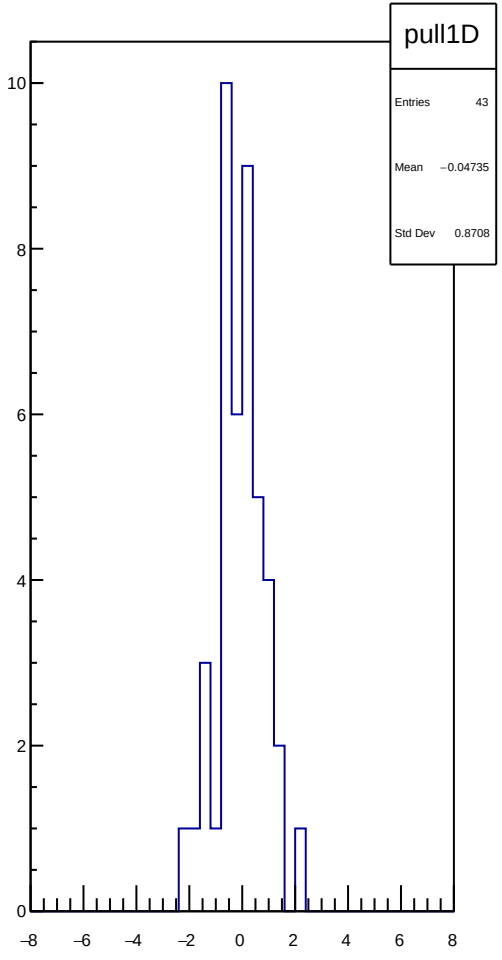

reg_asym_sam6_rms vs run
χ^2 / ndf 1190 / 42
p0 479.6 ± 0.515
600
580
560
540
520
500
480
460
440
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

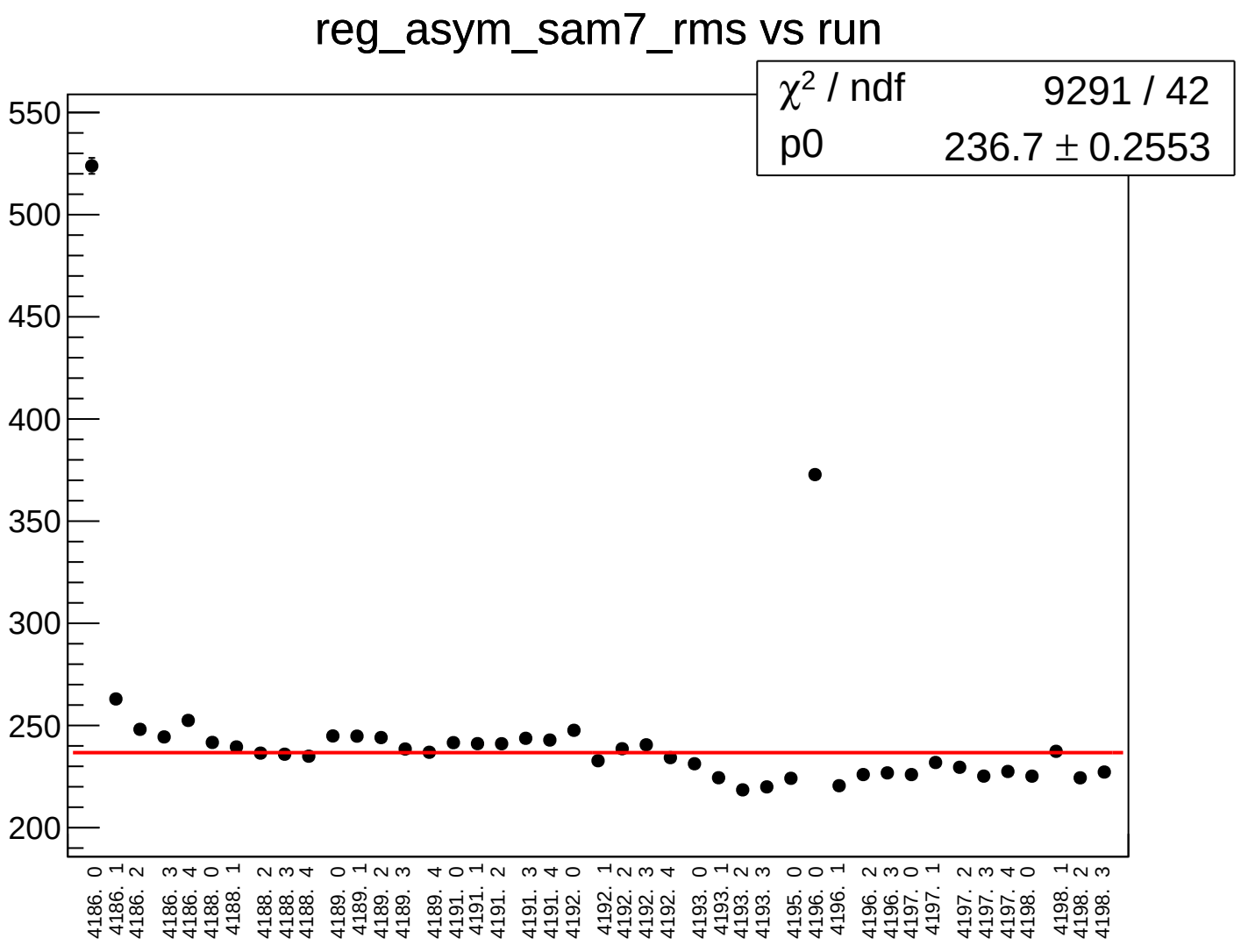

asym_sam6_correction_mean vs run
χ² / ndf 30.54 / 42
p0 −3308 ± 4021
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −4.484
Std Dev 88.06
1.5
1
0.5
0
−0.5
−1
−1.5

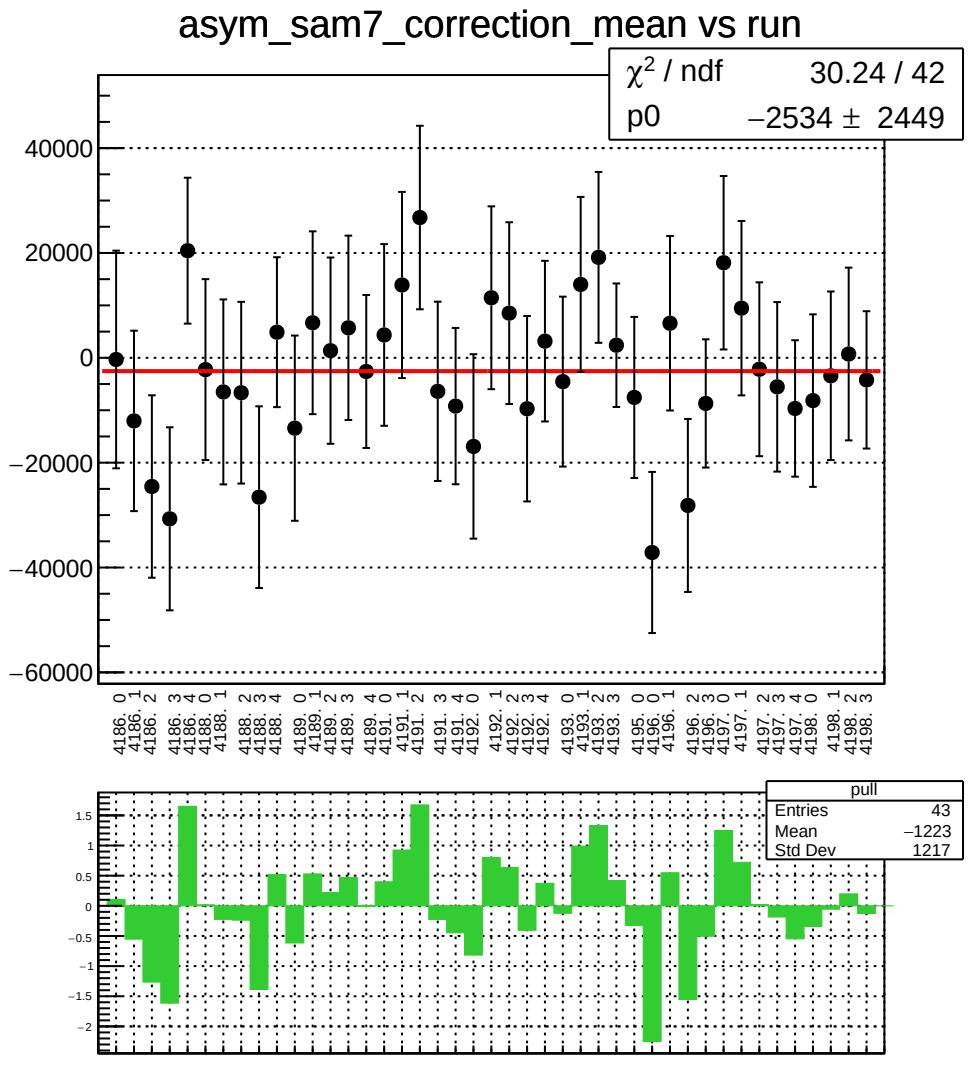

pull1D
Entries 43
Mean −0.001492
Std Dev 0.8428
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

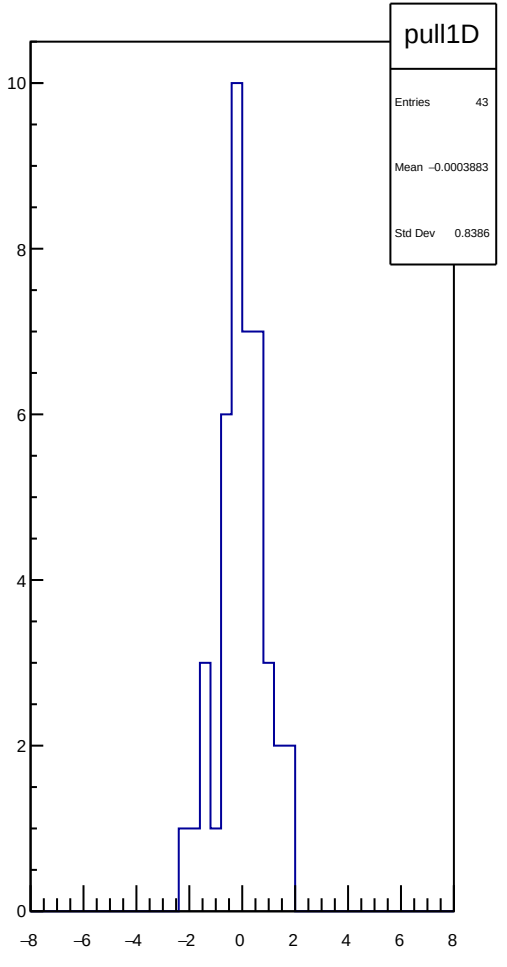

asym_sam6_correction_rms vs run
χ² / ndf 1612 / 42
p0 2648 ± 2.843
3000
2900
2800
2700
2600
2500
2400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

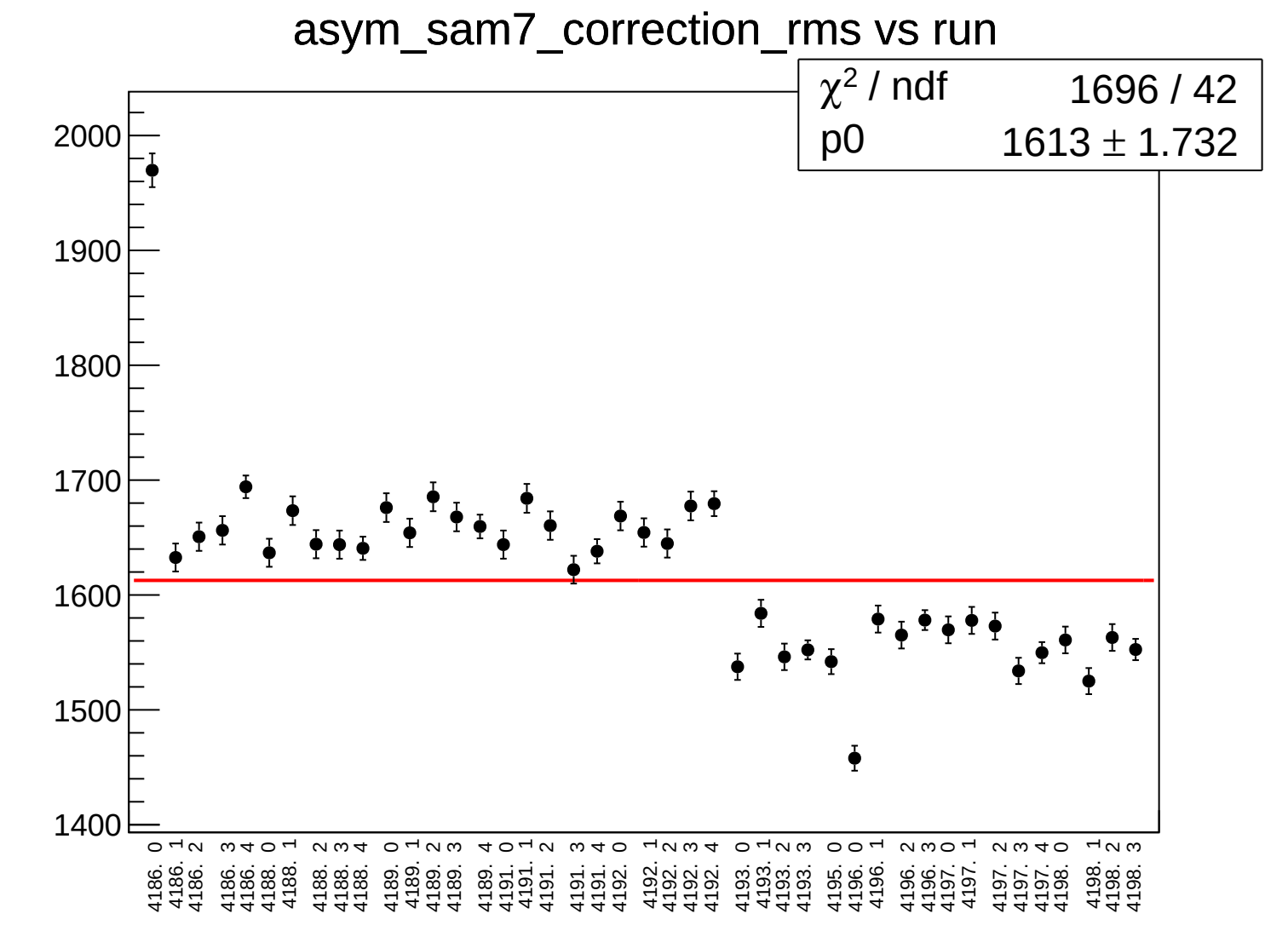

reg_asym_sam7_mean vs run
χ² / ndf 32.7 / 42
p0 332.4 ± 361.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 42.35
Std Dev 1.119
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

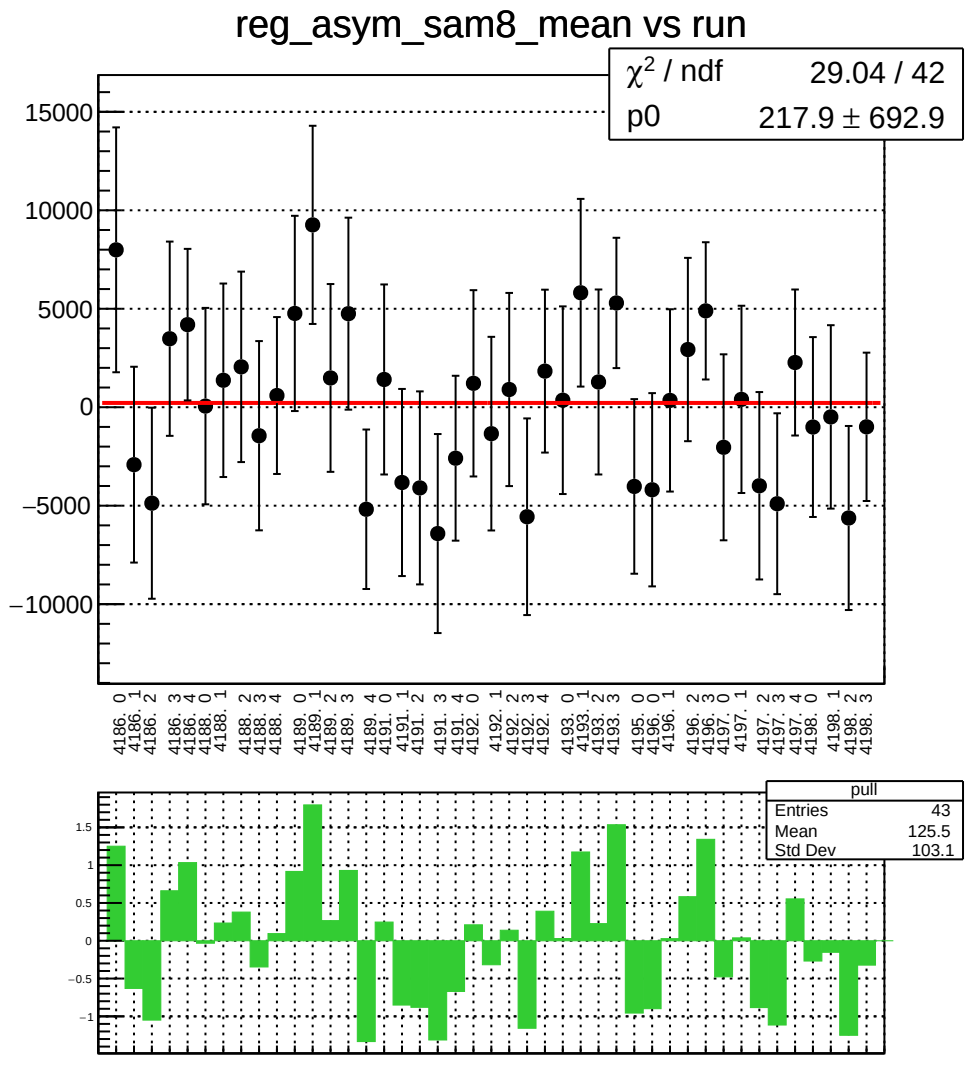

pull1D
Entries 43
Mean −0.04735
Std Dev 0.8708
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

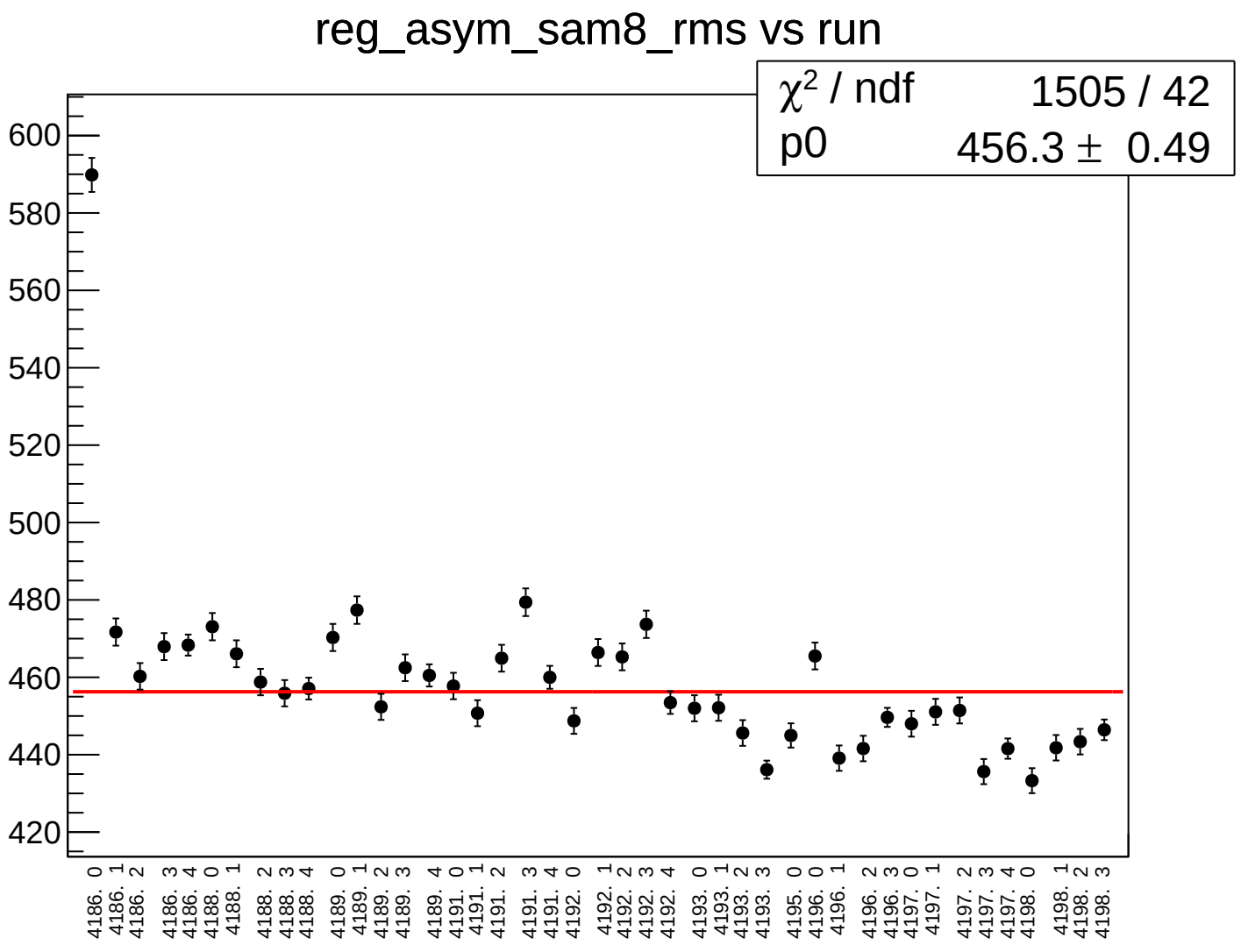

reg_asym_sam7_rms vs run
χ² / ndf 9291 / 42
p0 236.7 ± 0.2553
550
500
450
400
350
300
250
200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

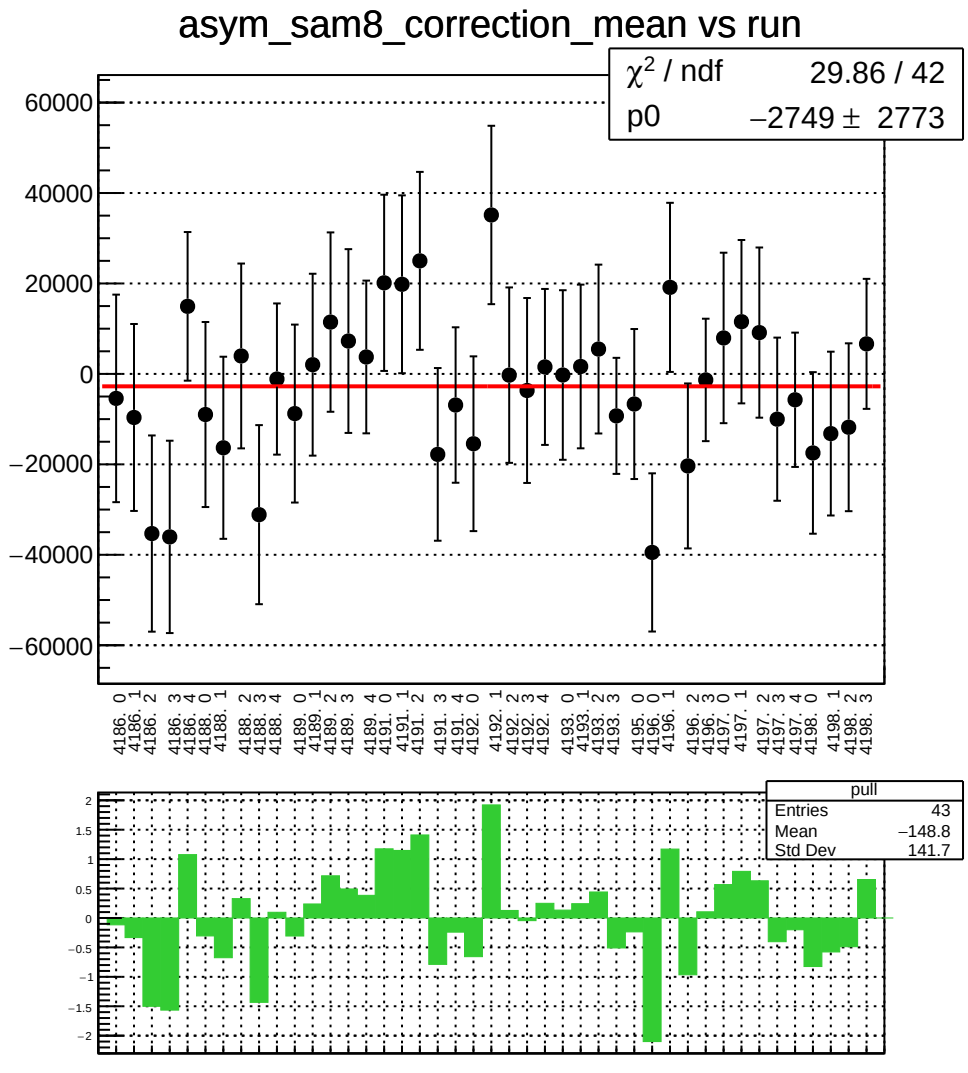

asym_sam7_correction_mean vs run
χ² / ndf 30.24 / 42
p0 −2534 ± 2449
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1223
Std Dev 1217
1.5
1
0.5
0
−0.5
−1
−1.5
−2

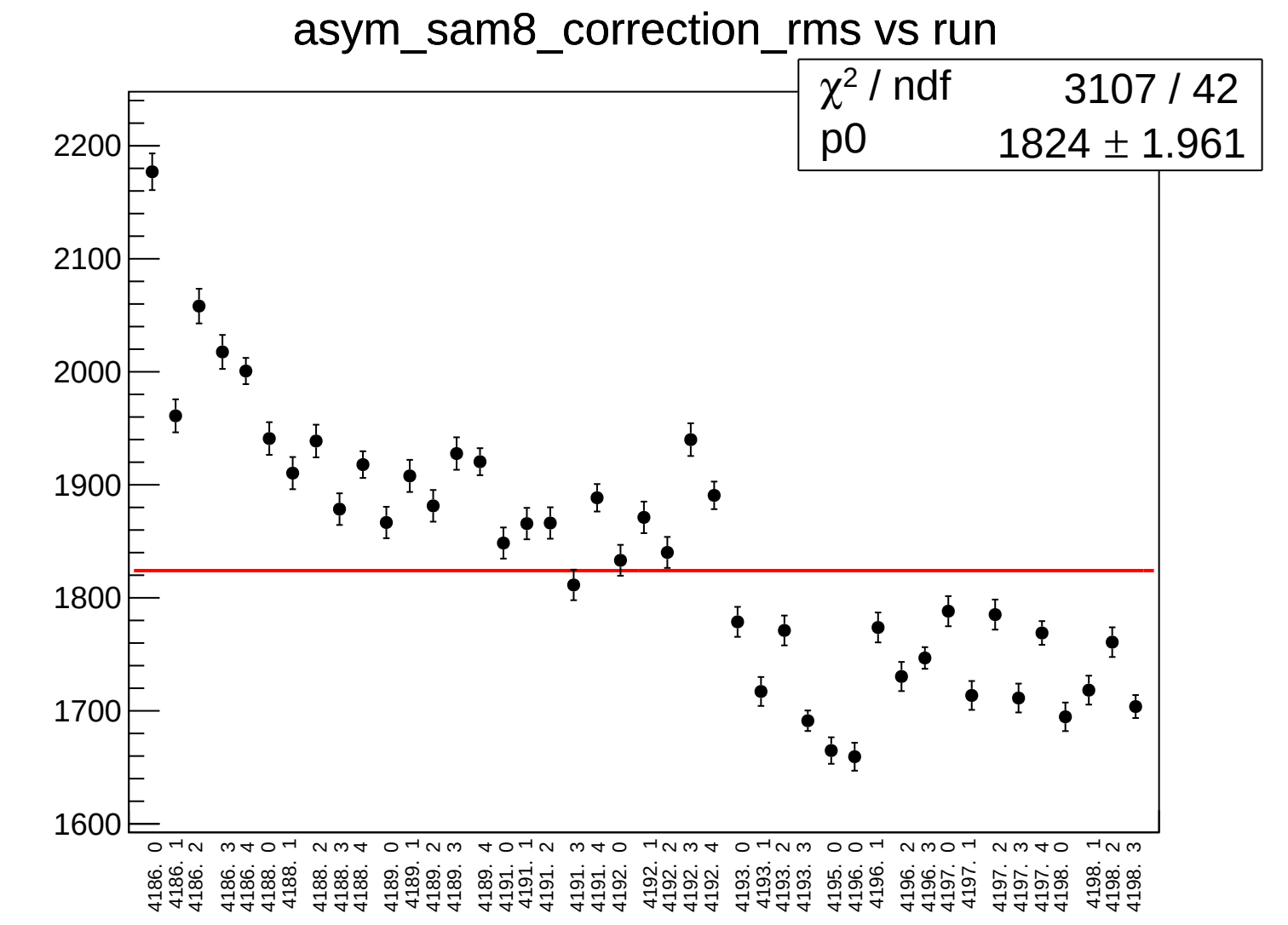

pull1D
Entries 43
Mean −0.0003883
Std Dev 0.8386
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

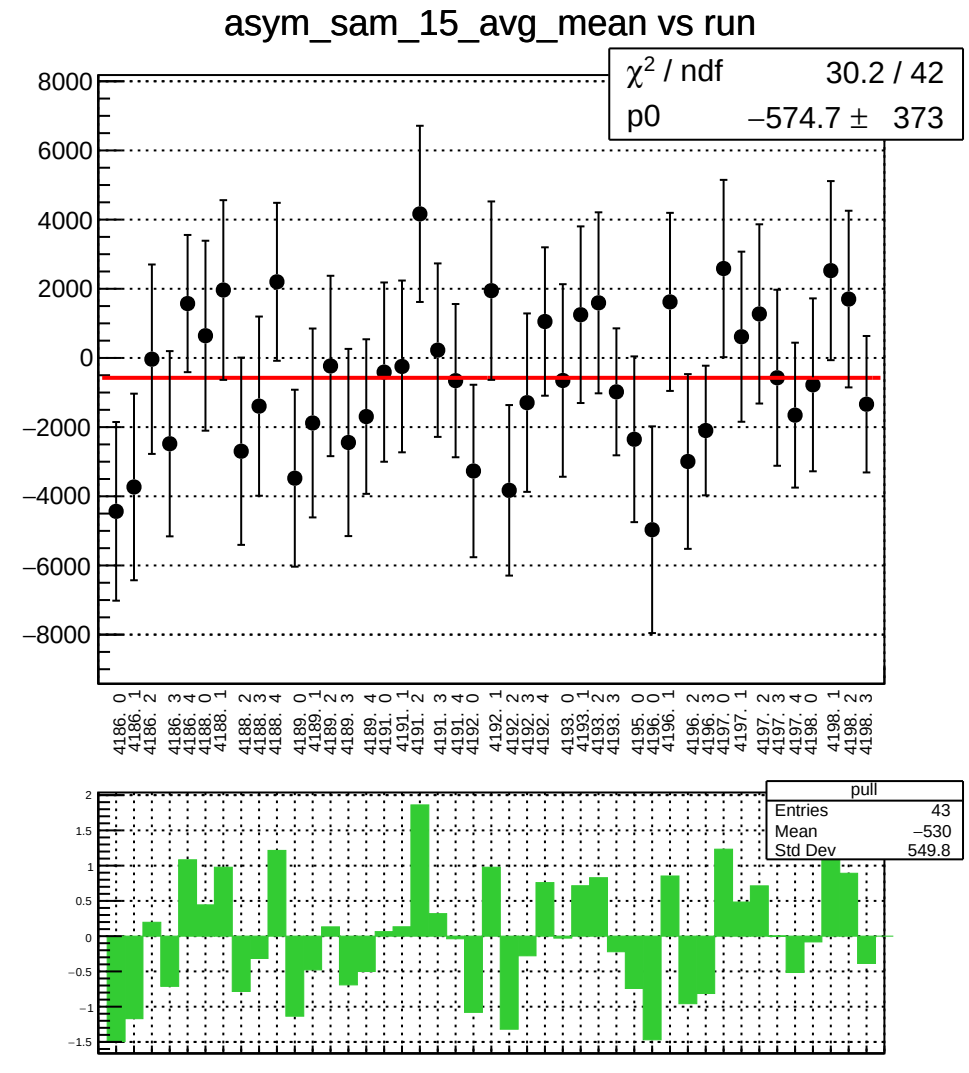

asym_sam7_correction_rms vs run
χ² / ndf 1696 / 42
p0 1613 ± 1.732
2000
1900
1800
1700
1600
1500
1400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

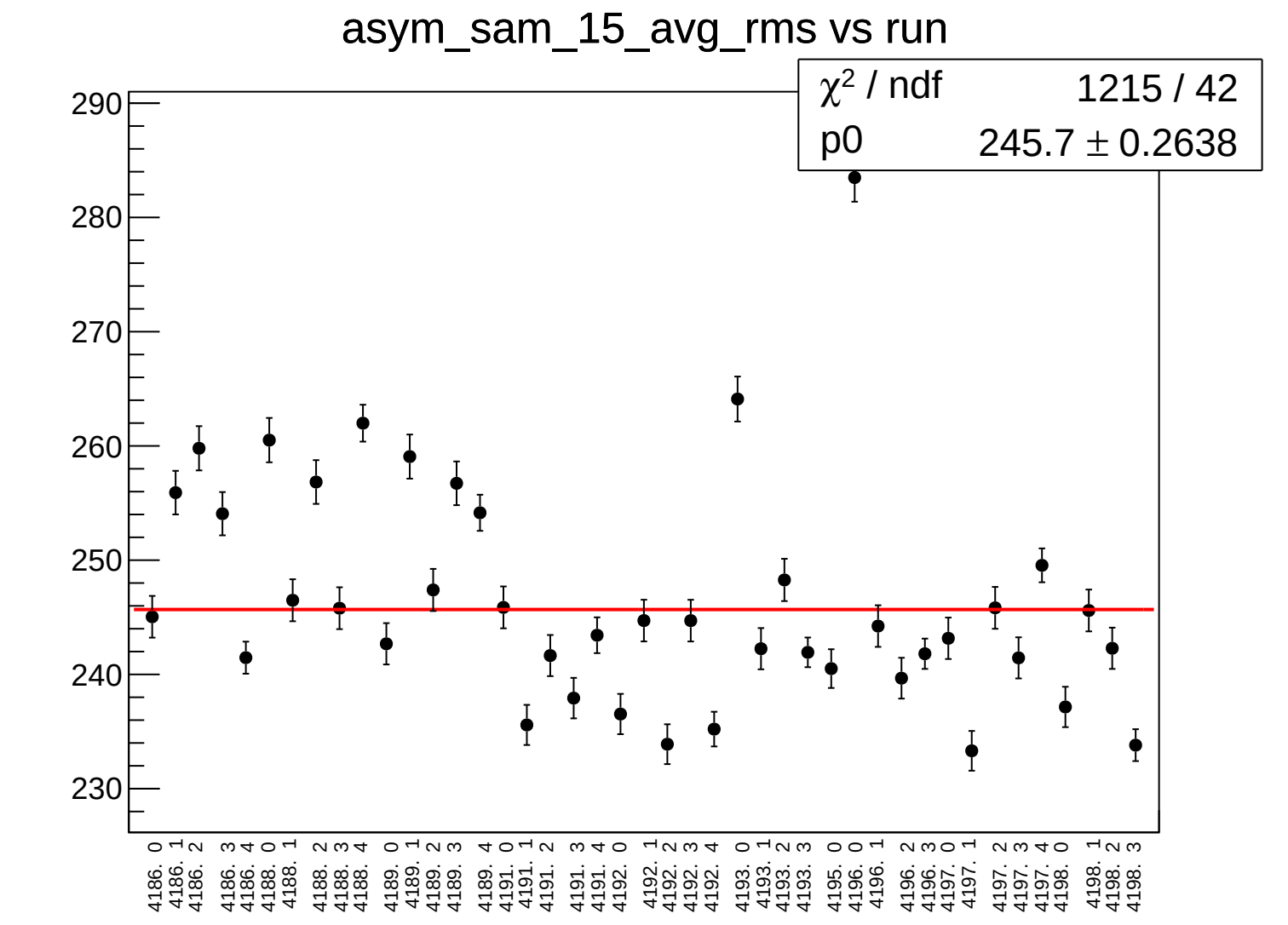

reg_asym_sam8_mean vs run
χ² / ndf 29.04 / 42
p0 217.9 ± 692.9
15000
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 125.5
Std Dev 103.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01967
Std Dev 0.8215
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

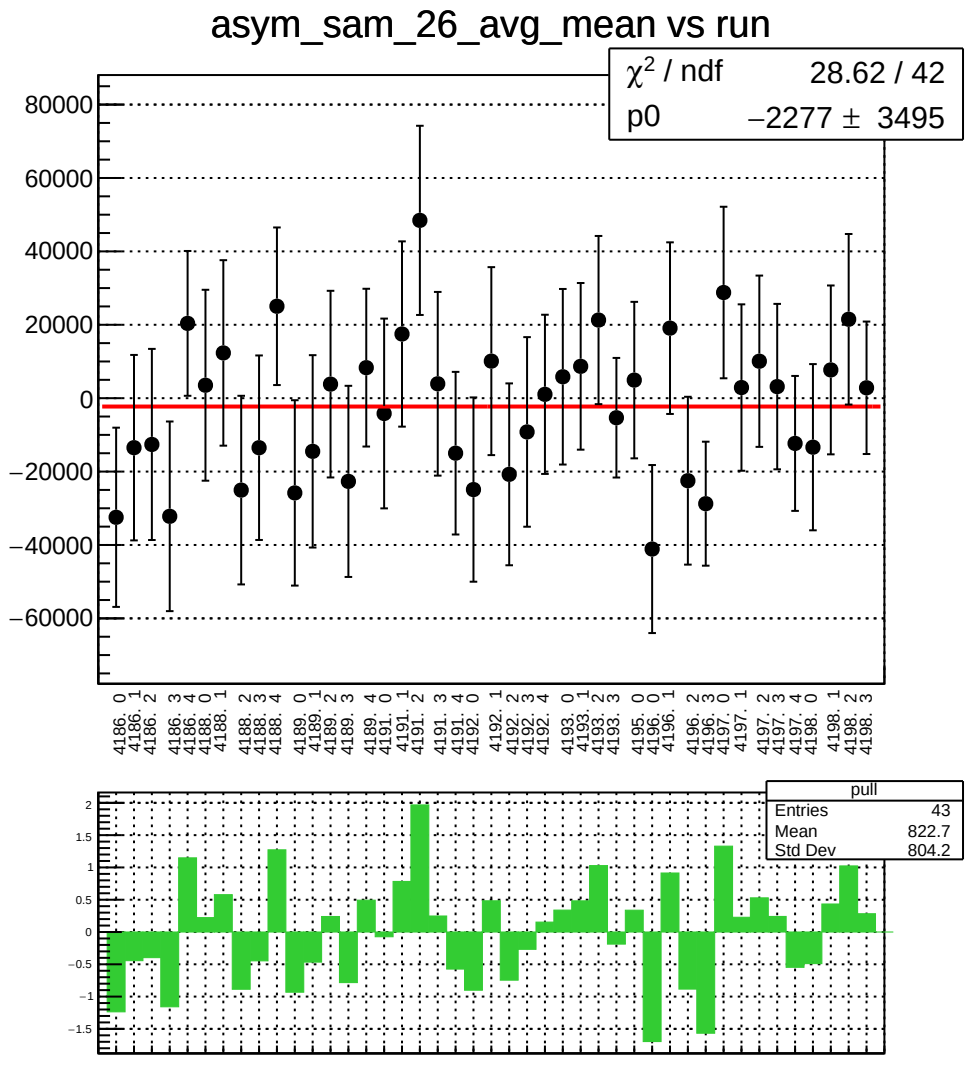

reg_asym_sam8_rms vs run
χ² / ndf 1505 / 42
p0 456.3 ± 0.49
600
580
560
540
520
500
480
460
440
420
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

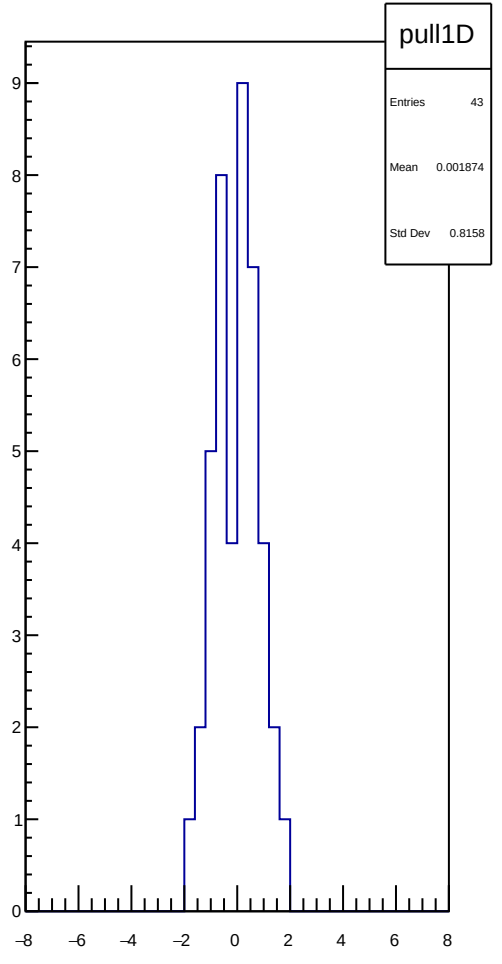

asym_sam8_correction_mean vs run
χ² / ndf 29.86 / 42
p0 −2749 ± 2773
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −148.8
Std Dev 141.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003794
Std Dev 0.8333
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

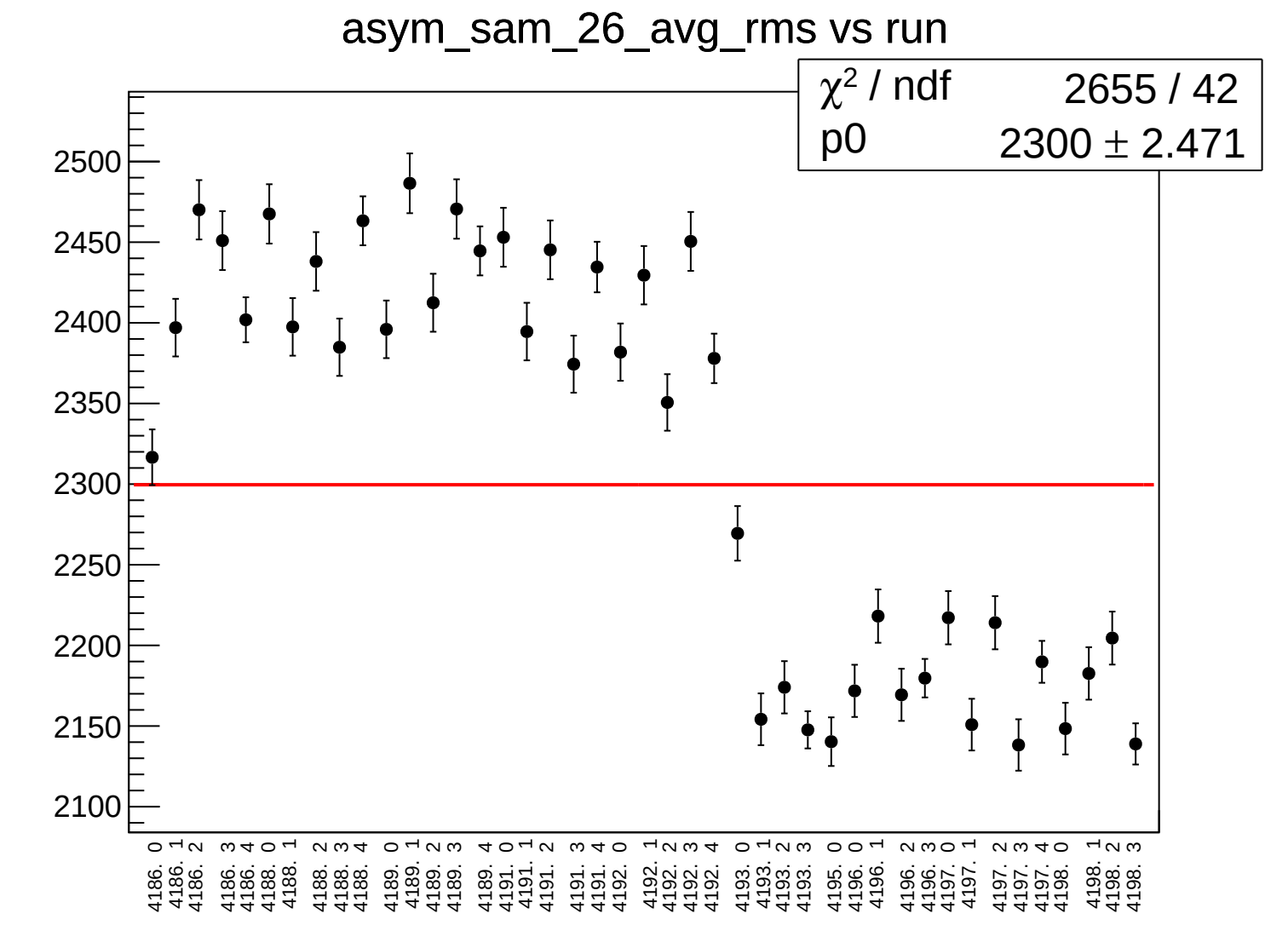

asym_sam8_correction_rms vs run
χ² / ndf 3107 / 42
p0 1824 ± 1.961
2200
2100
2000
1900
1800
1700
1600
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

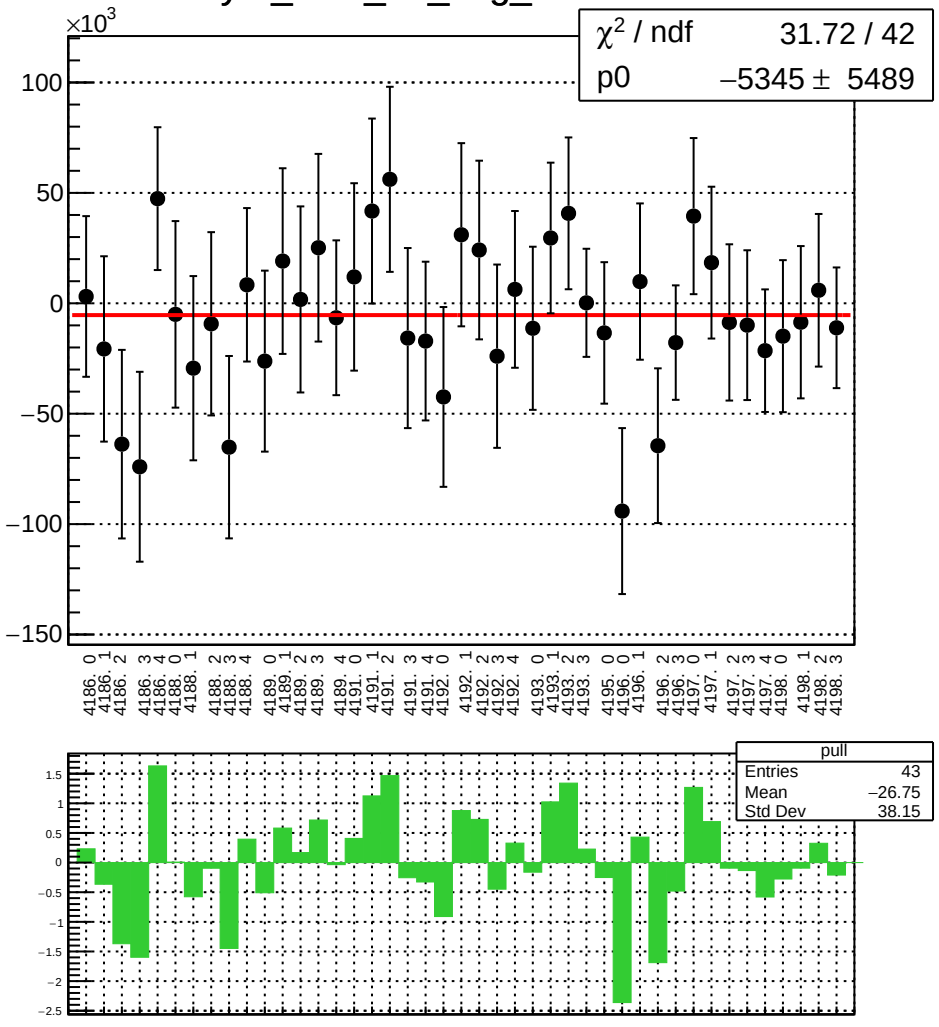

asym_sam_15_avg_mean vs run
χ² / ndf 30.2 / 42
p0 −574.7 ± 373
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −530
Std Dev 549.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.003084
Std Dev 0.8381
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

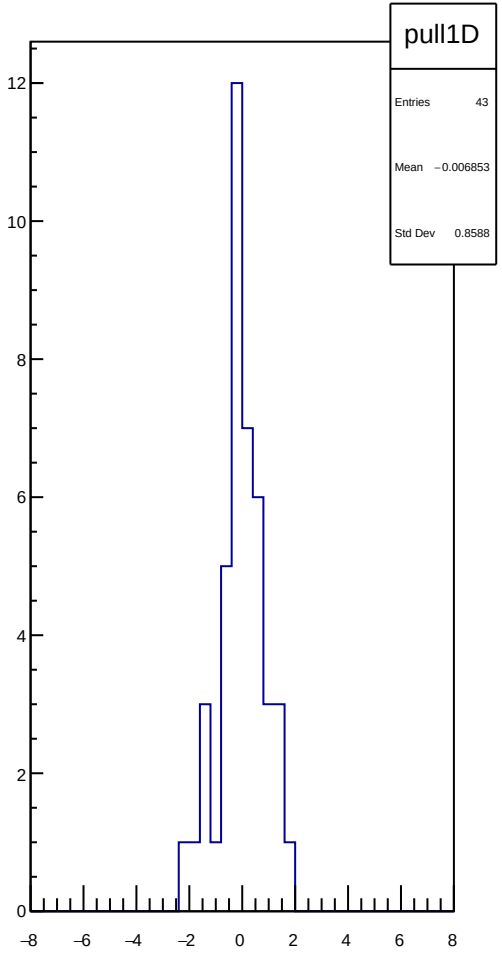

asym_sam_15_avg_rms vs run
χ² / ndf 1215 / 42
p0 245.7 ± 0.2638
290
280
270
260
250
240
230
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

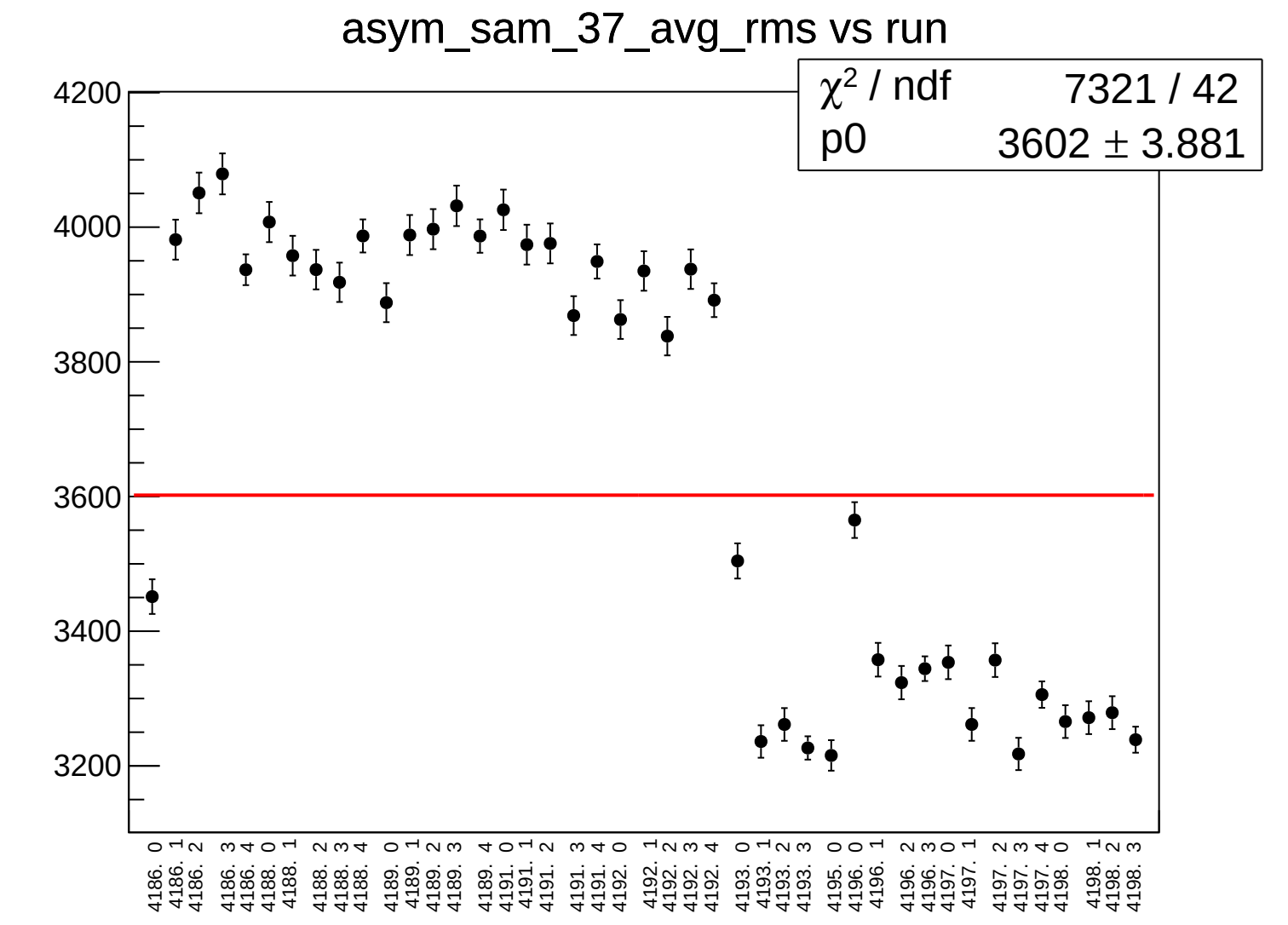

asym_sam_26_avg_mean vs run
χ² / ndf 28.62 / 42
p0 −2277 ± 3495
80000
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 822.7
Std Dev 804.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

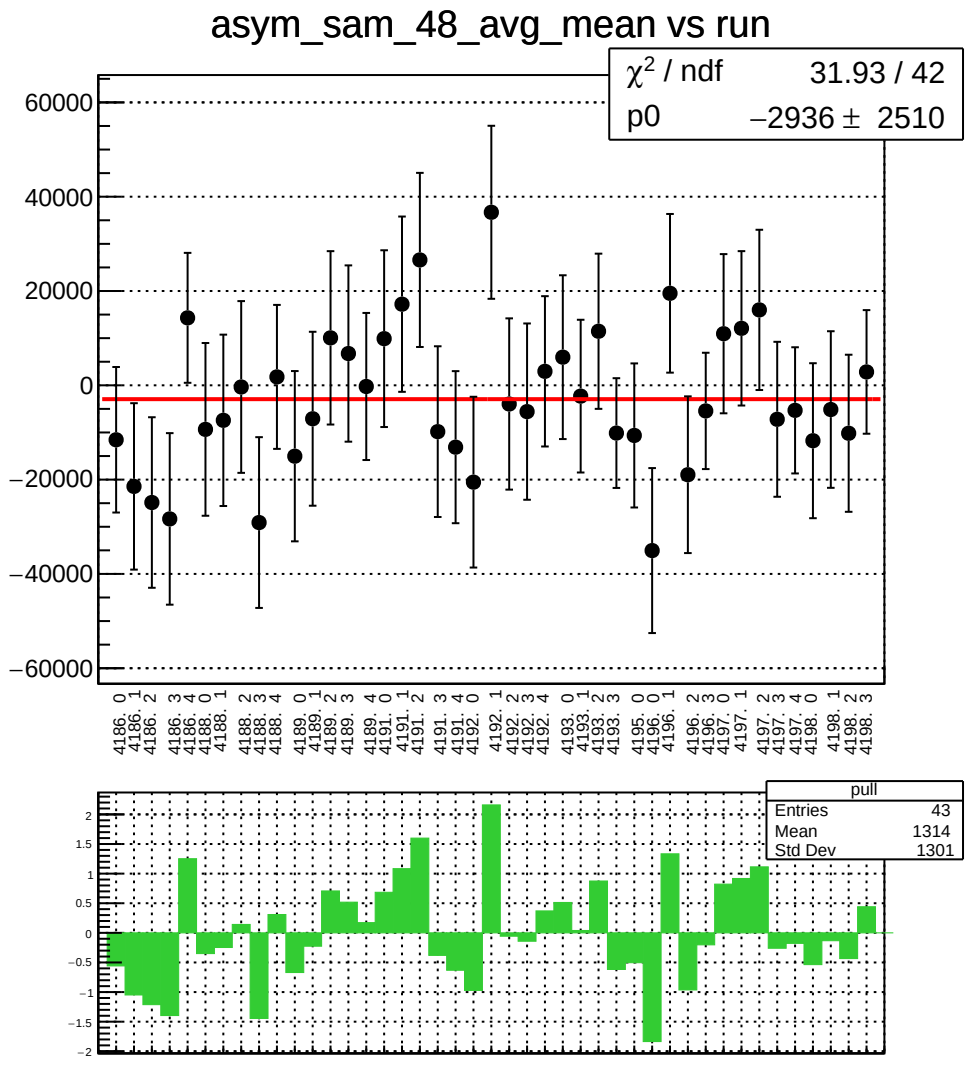

pull1D
Entries 43
Mean 0.001874
Std Dev 0.8158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

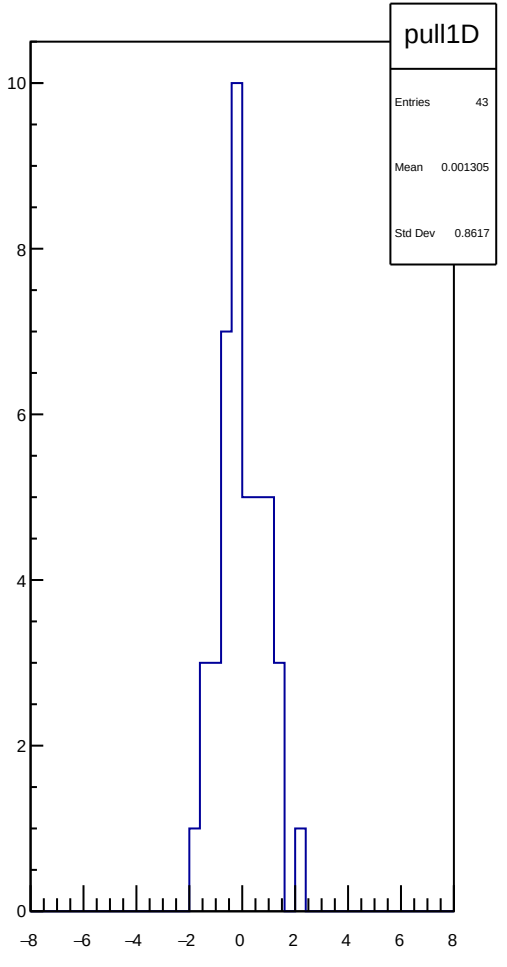

asym_sam_26_avg_rms vs run
χ² / ndf 2655 / 42
p0 2300 ± 2.471
2500
2450
2400
2350
2300
2250
2200
2150
2100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

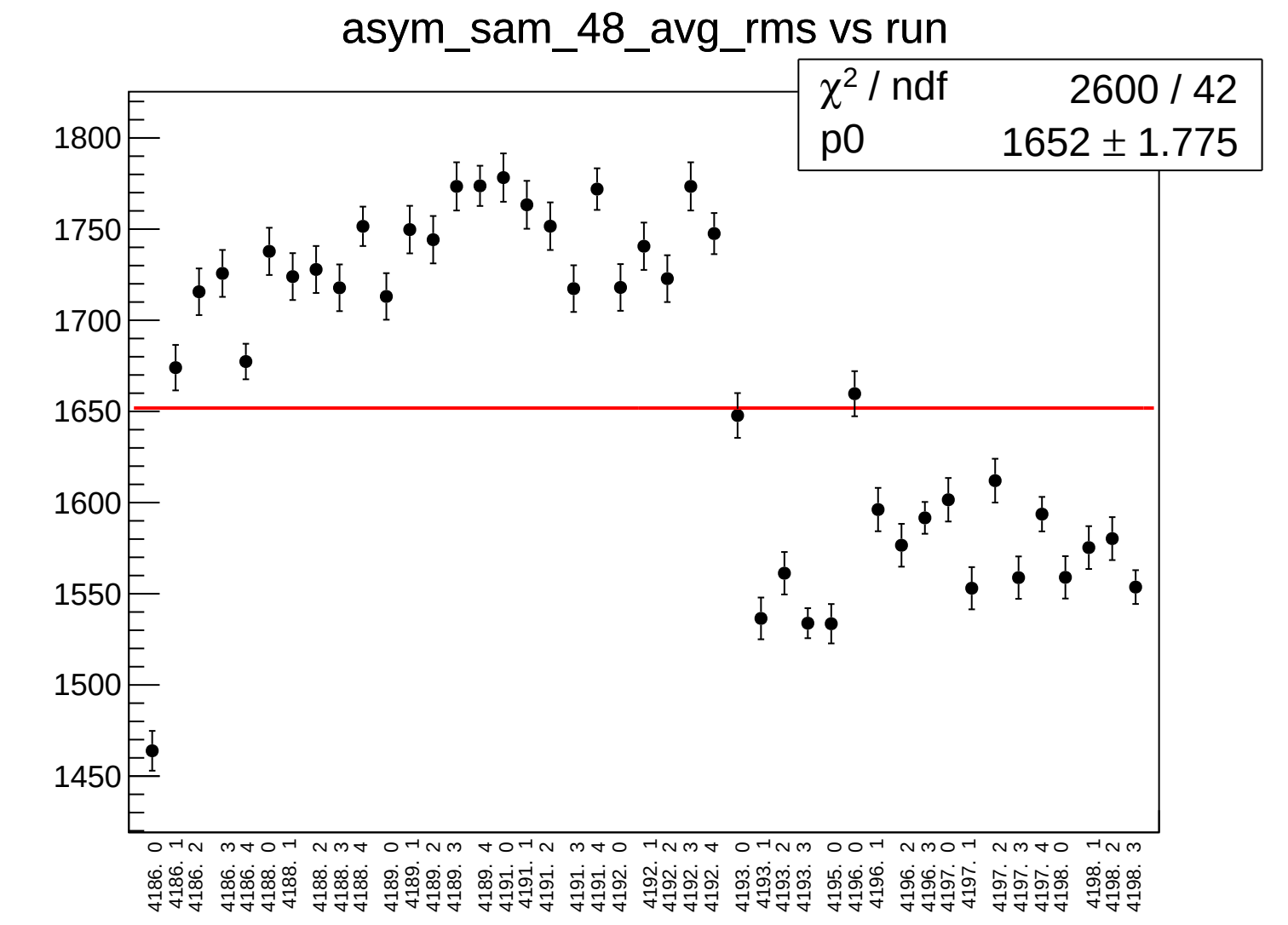

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 31.72 / 42
p0 −5345 ± 5489
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −26.75
Std Dev 38.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

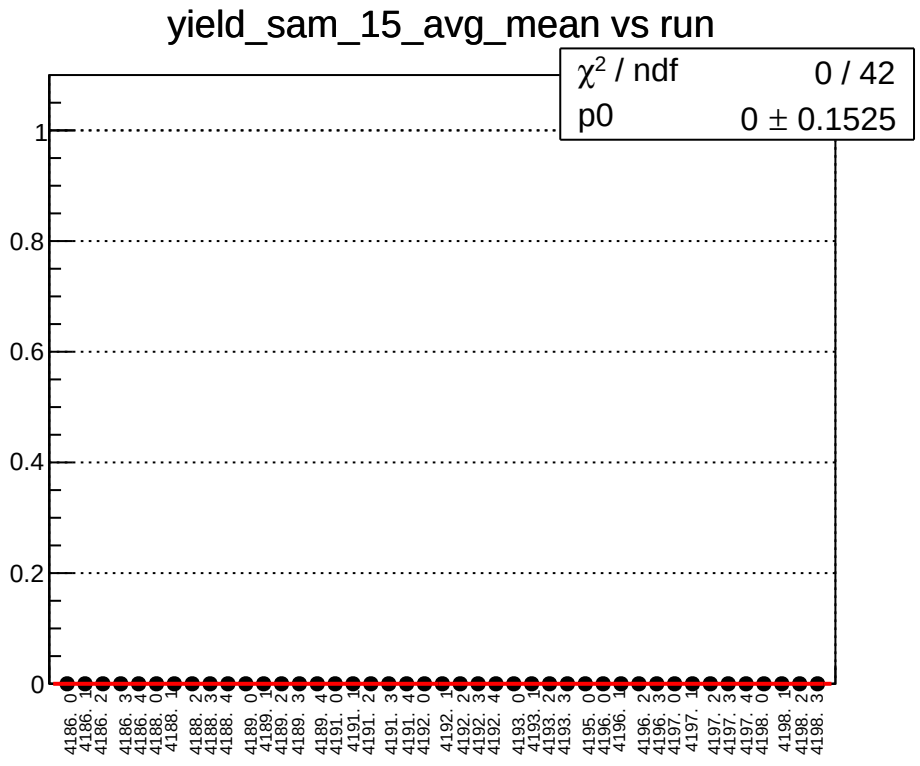

pull1D
Entries 43
Mean −0.006853
Std Dev 0.8588
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

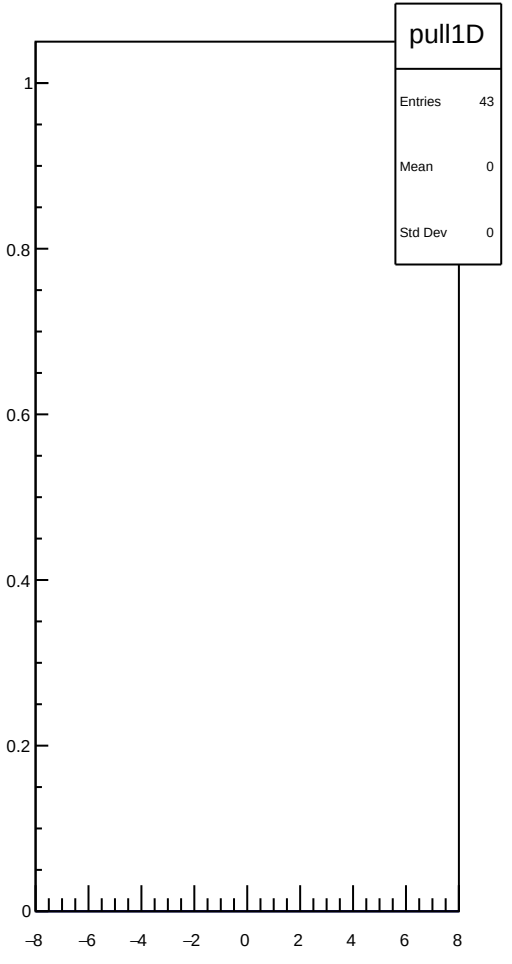

asym_sam_37_avg_rms vs run
χ² / ndf 7321 / 42
p0 3602 ± 3.881
4200
4000
3800
3600
3400
3200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

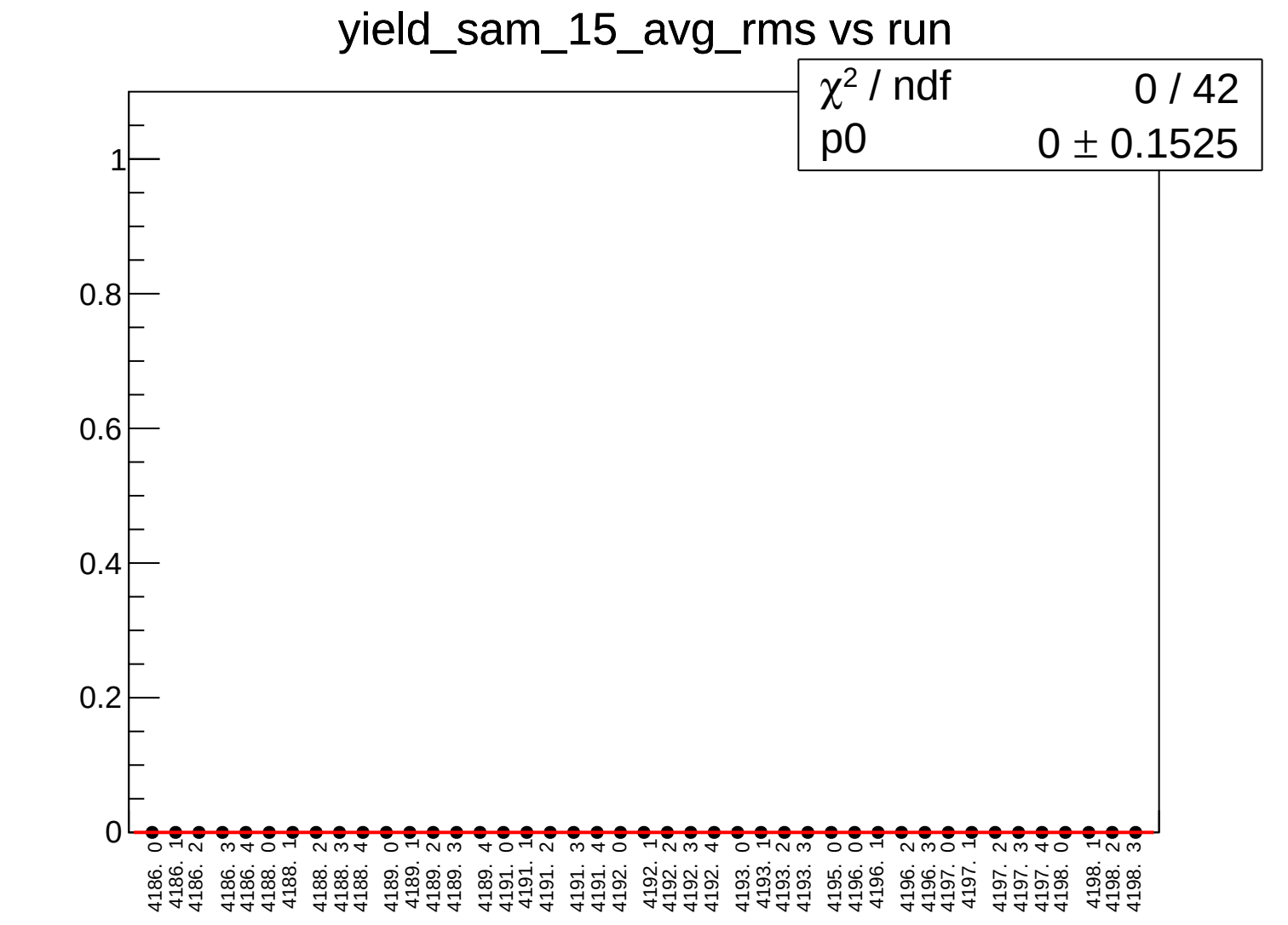

asym_sam_48_avg_mean vs run
χ² / ndf 31.93 / 42
p0 −2936 ± 2510
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1314
Std Dev 1301
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

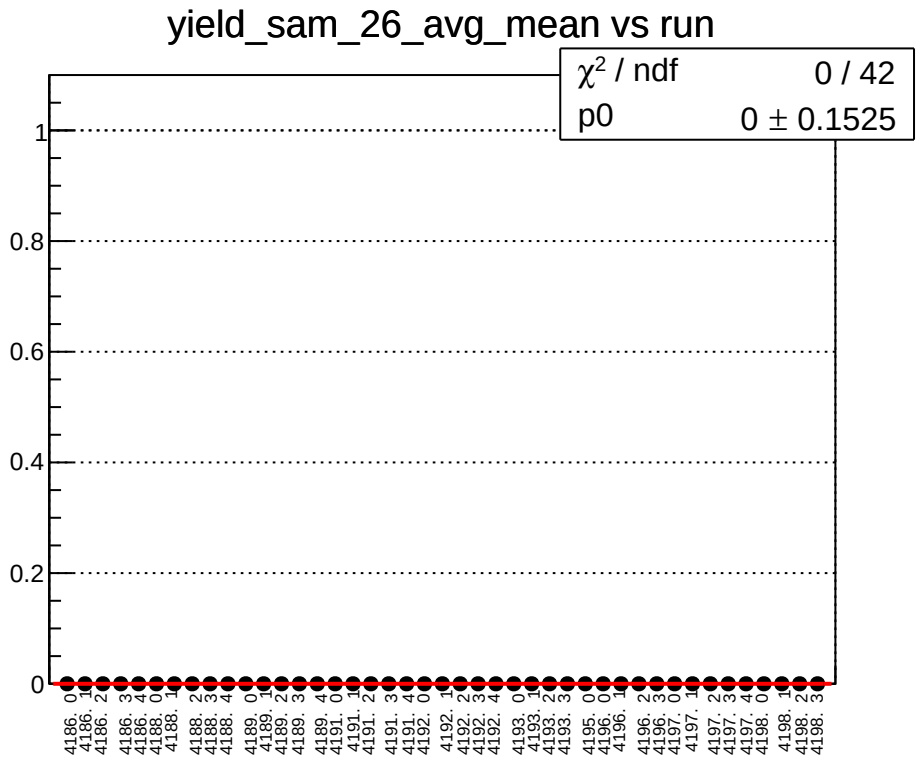

pull1D
Entries 43
Mean 0.001305
Std Dev 0.8617
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

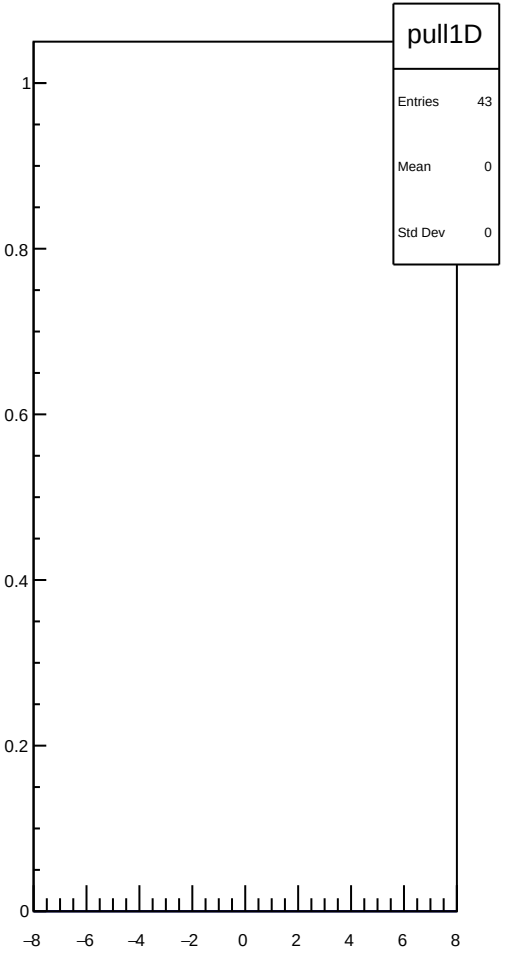

asym_sam_48_avg_rms vs run
χ² / ndf 2600 / 42
p0 1652 ± 1.775
1800
1750
1700
1650
1600
1550
1500
1450
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

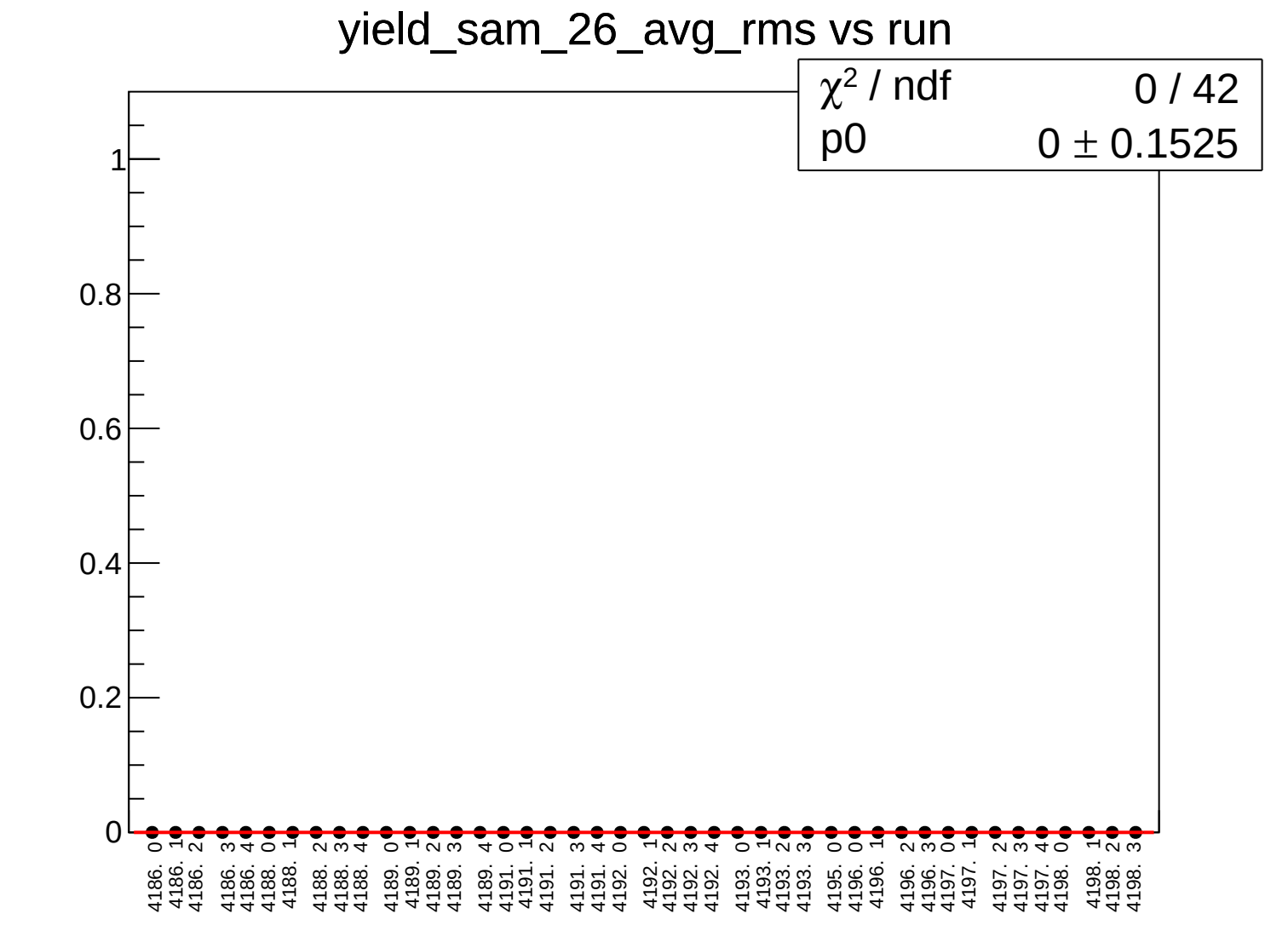

yield_sam_15_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

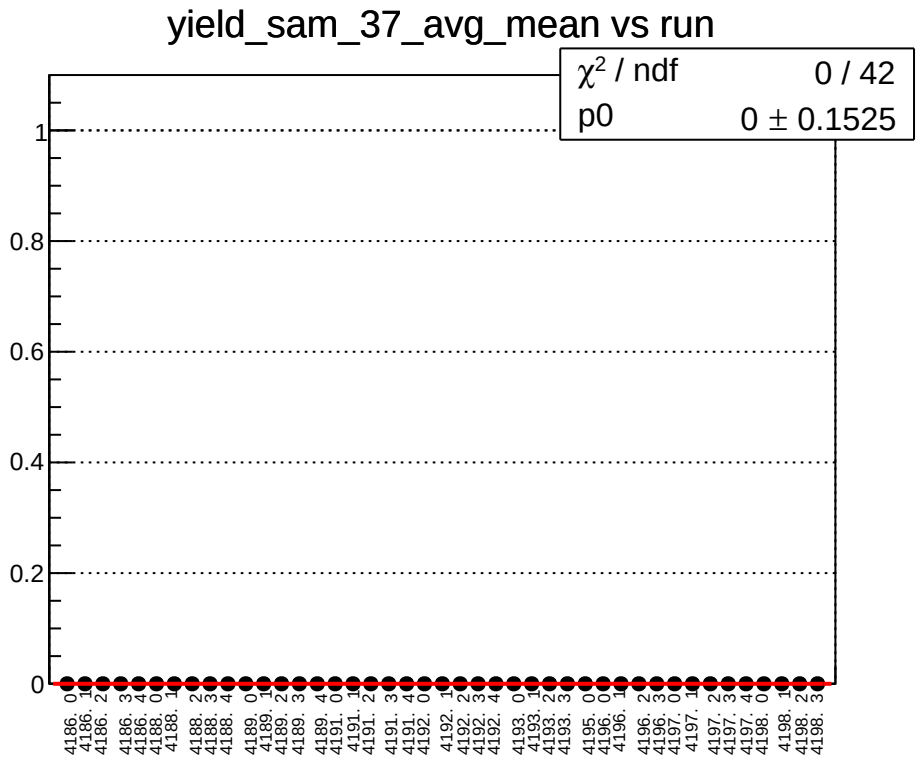

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

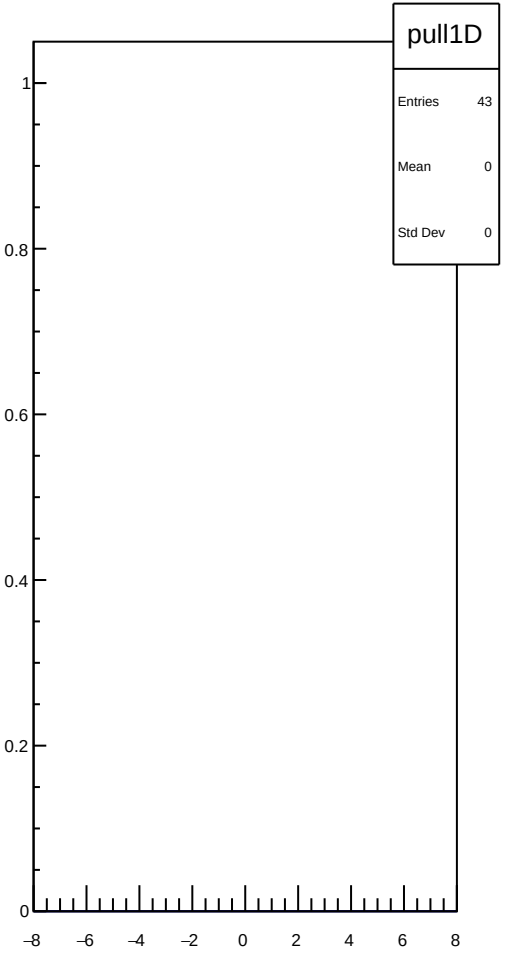

yield_sam_15_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

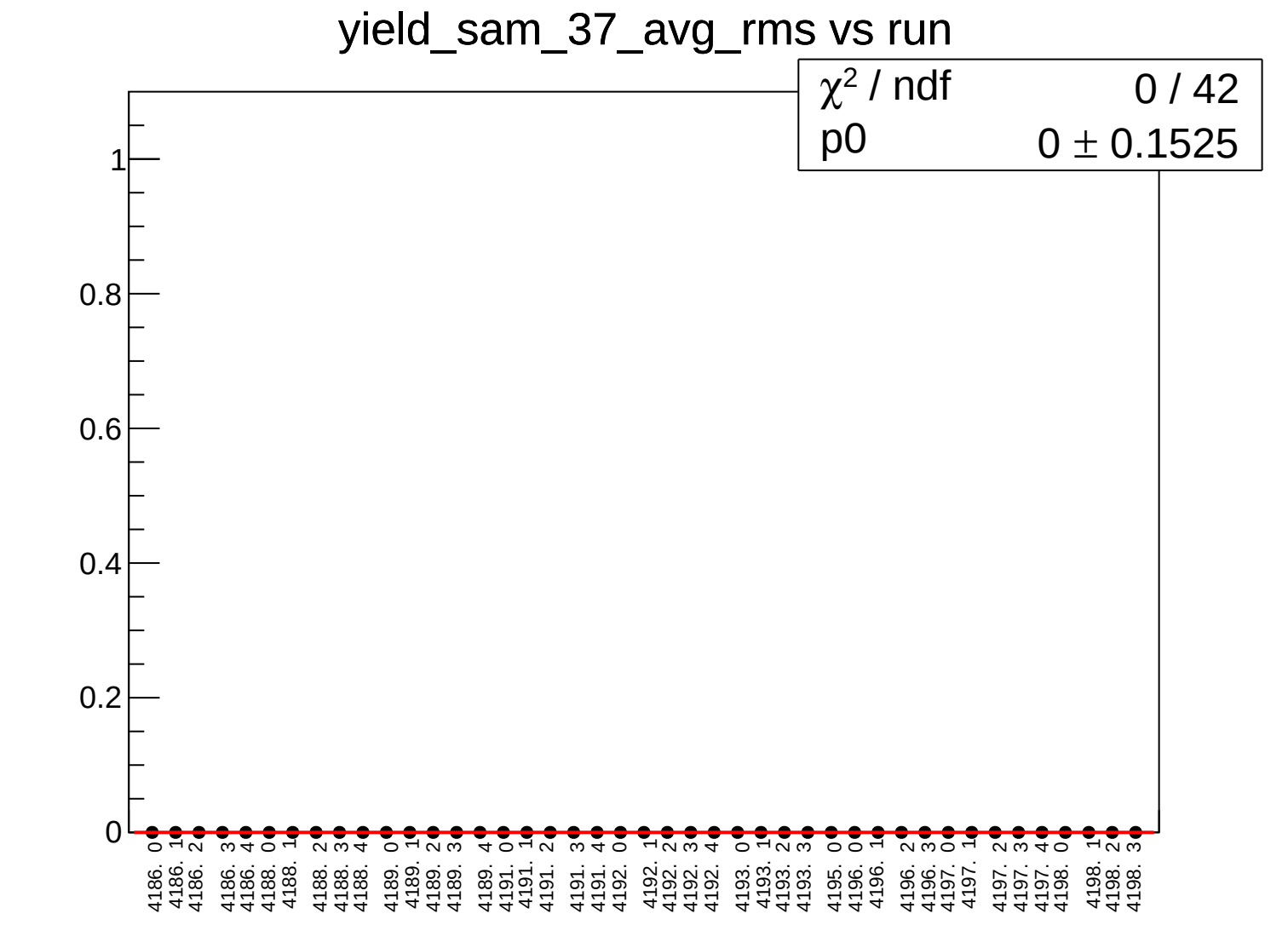

yield_sam_26_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

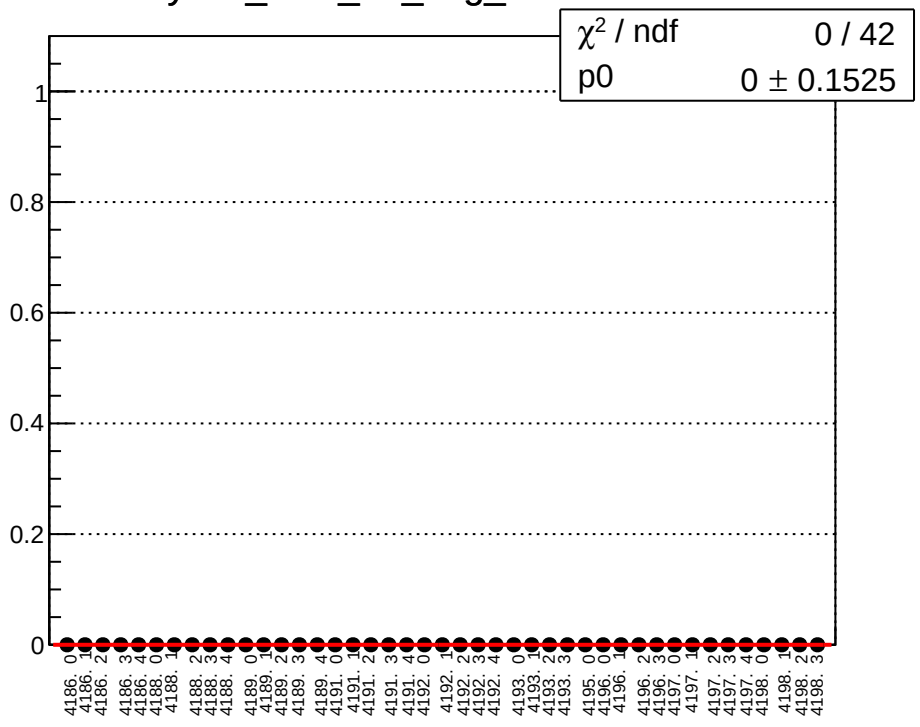

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

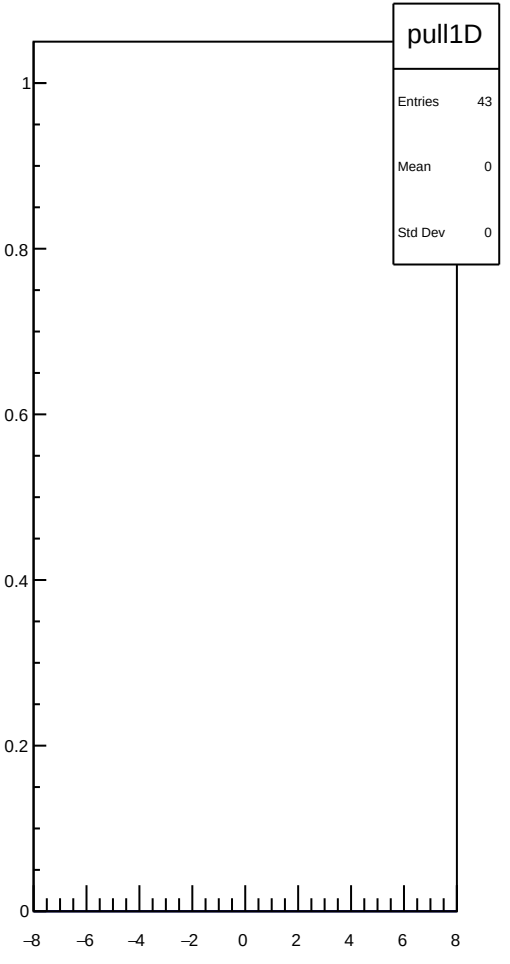

yield_sam_26_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

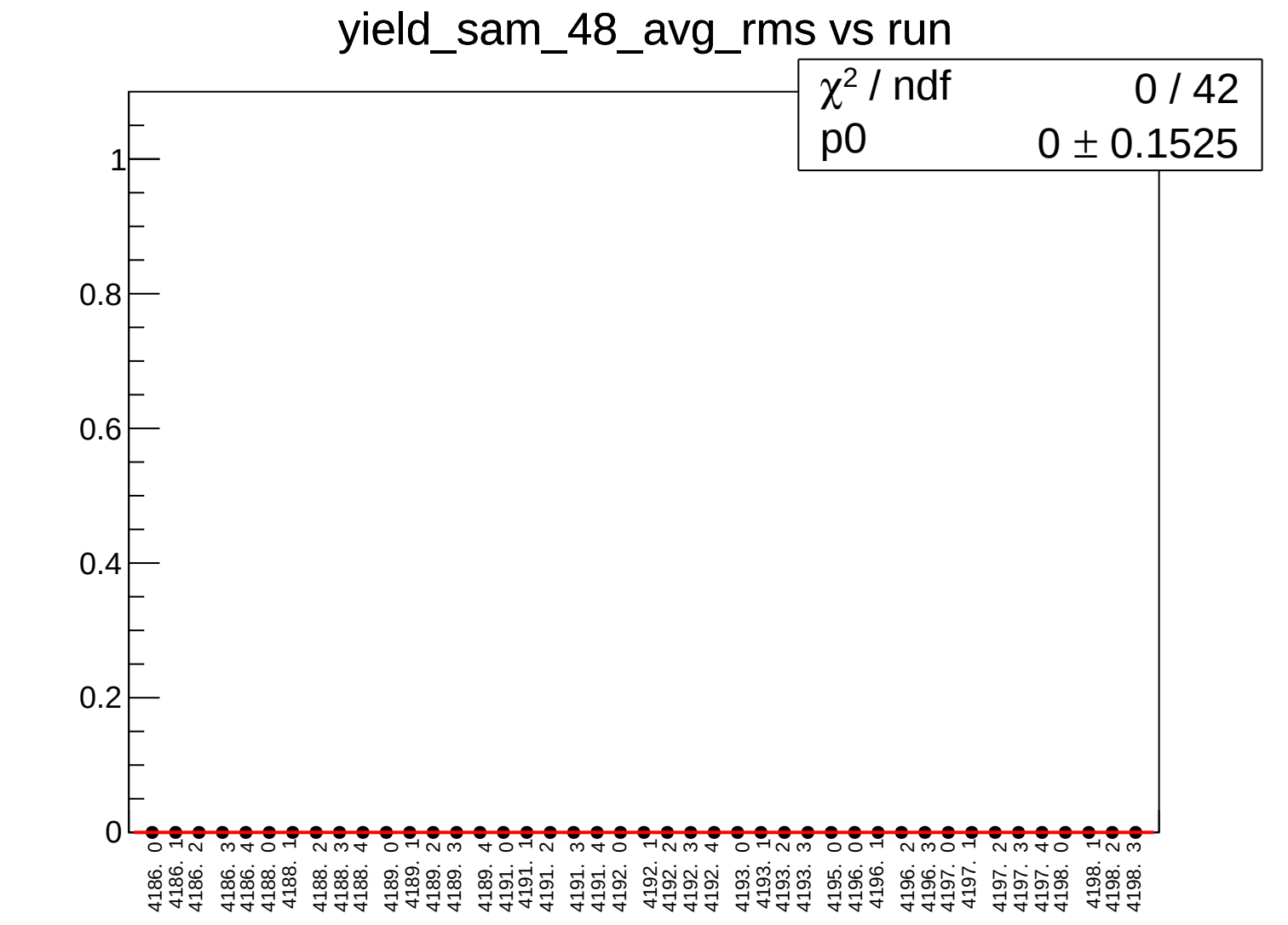

yield_sam_37_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

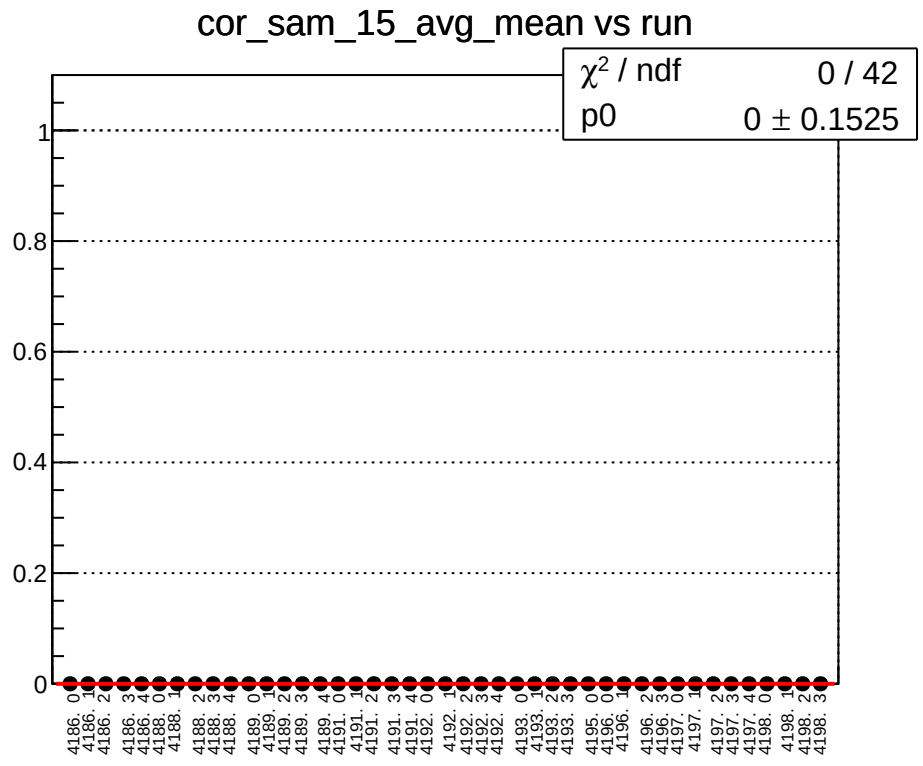

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

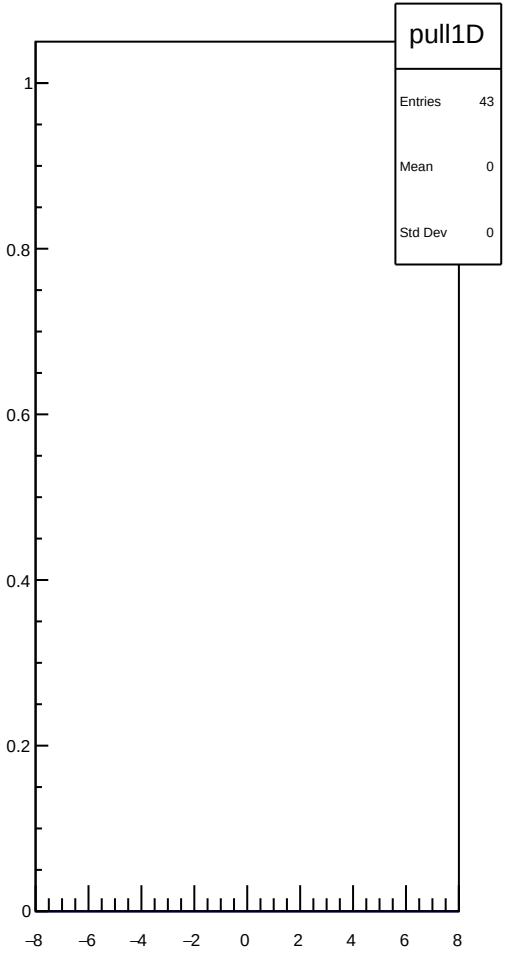

yield_sam_37_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

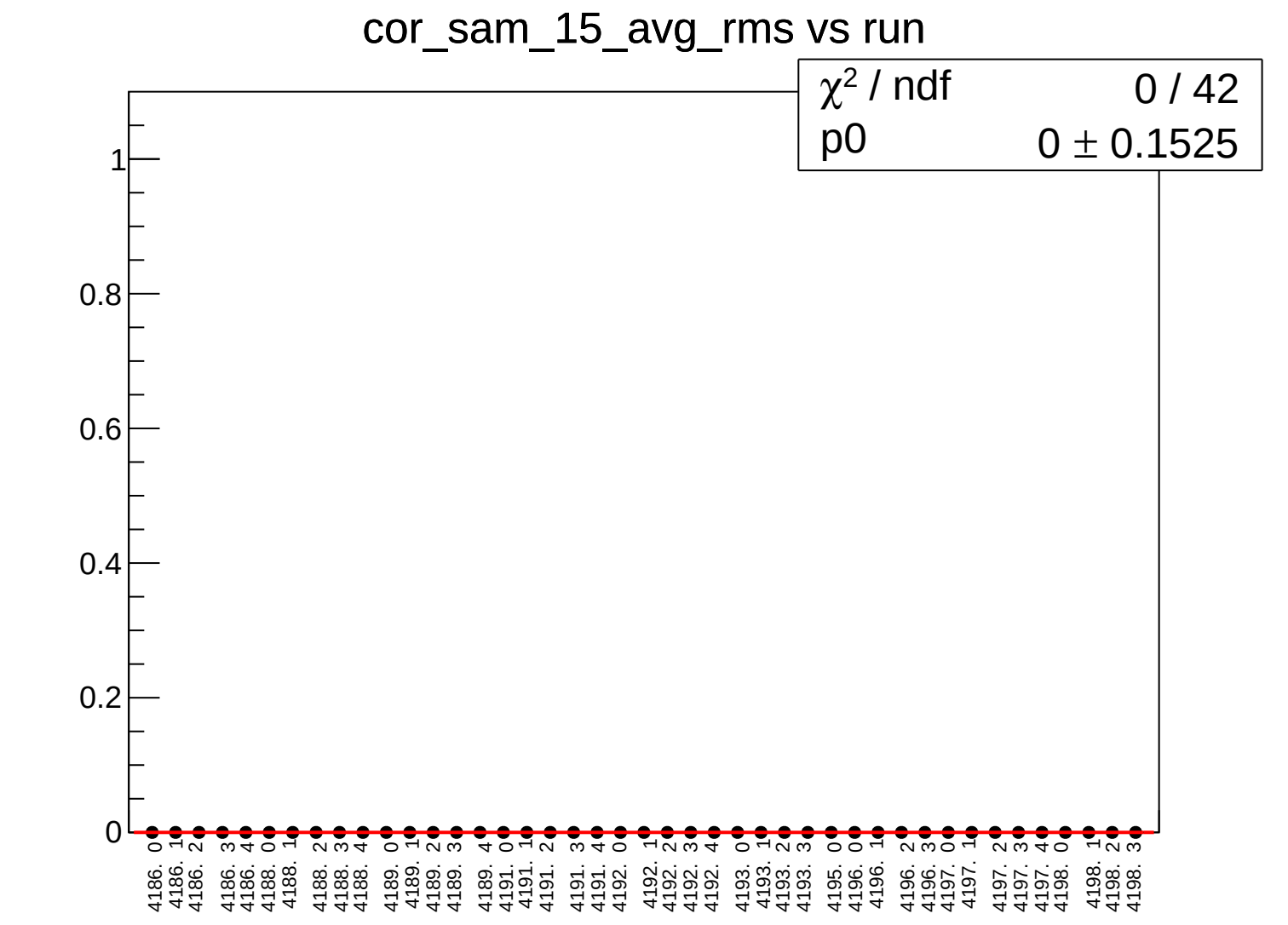

yield_sam_48_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

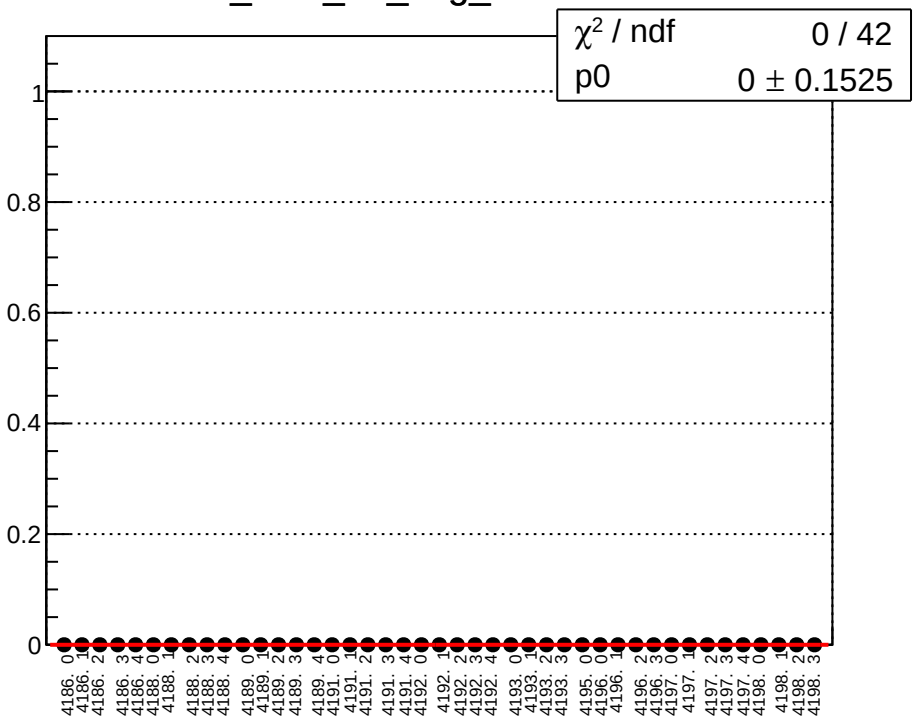

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

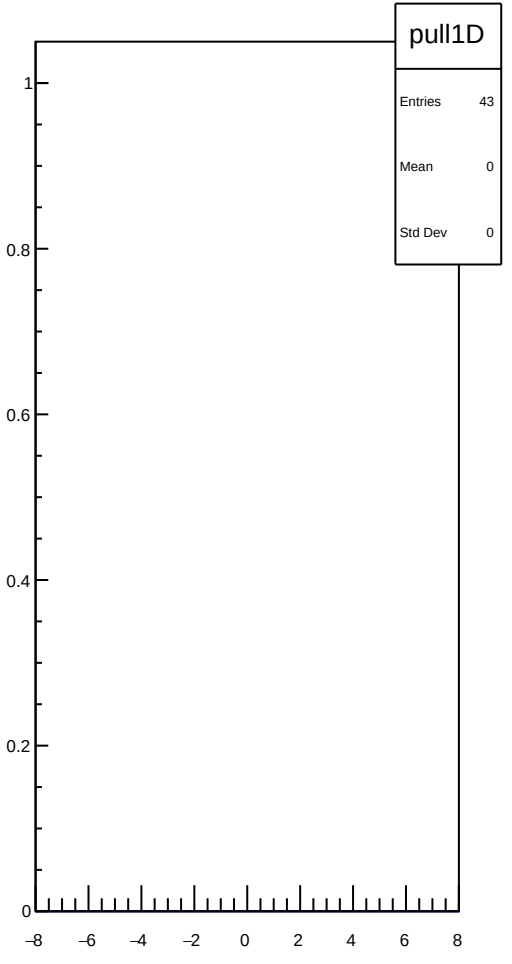

yield_sam_48_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

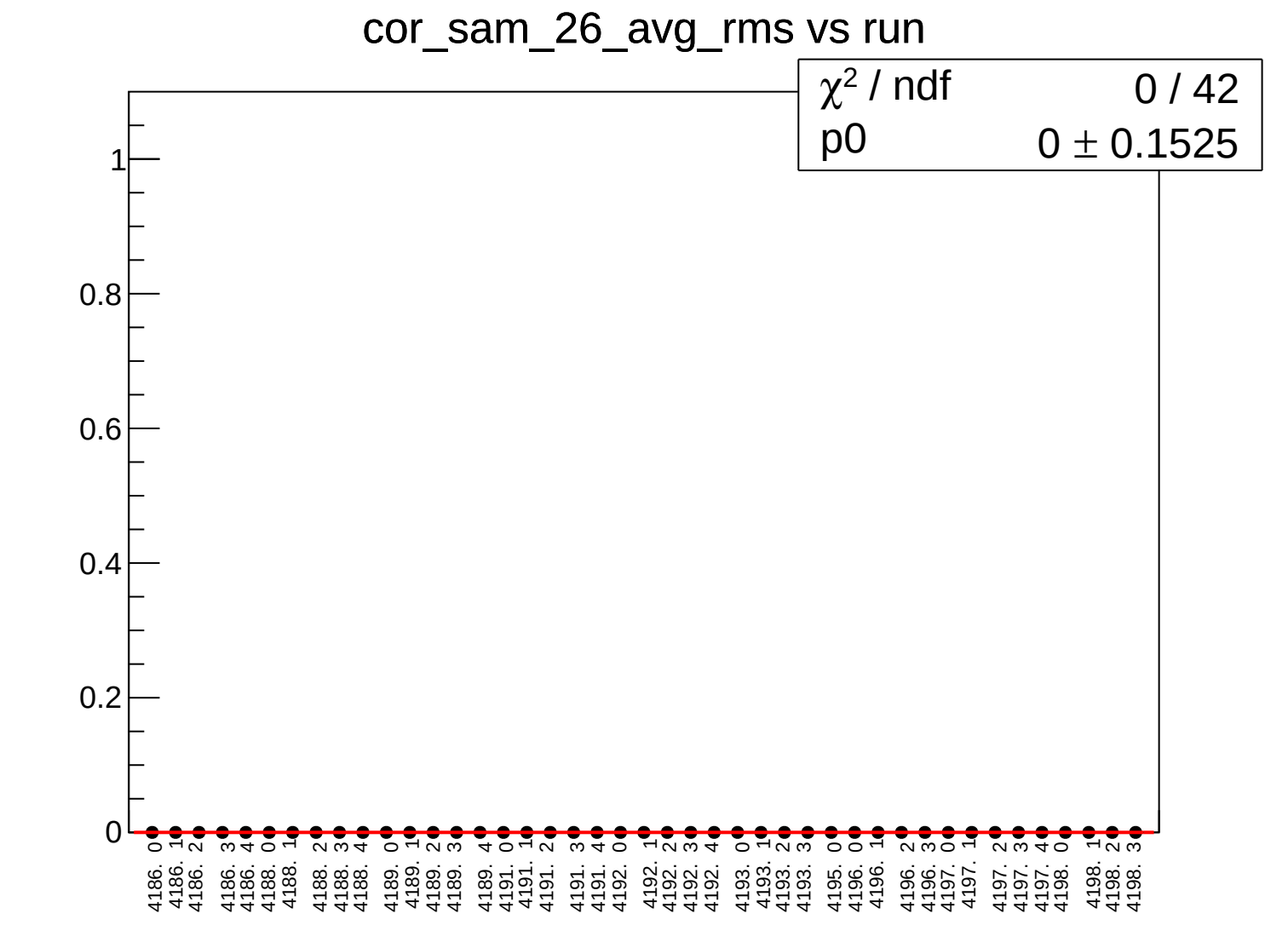

cor_sam_15_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

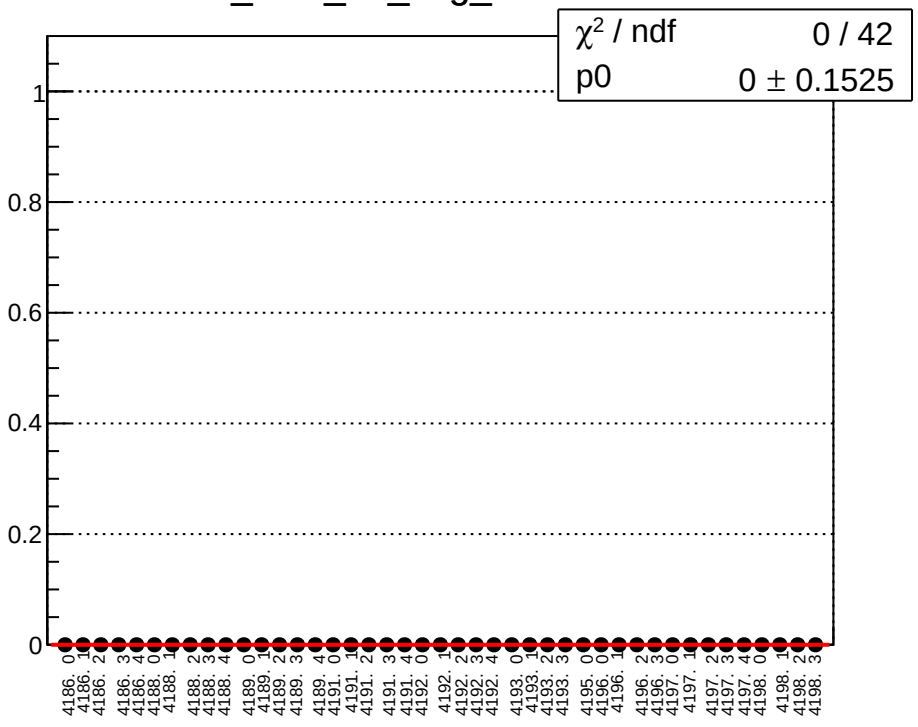

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

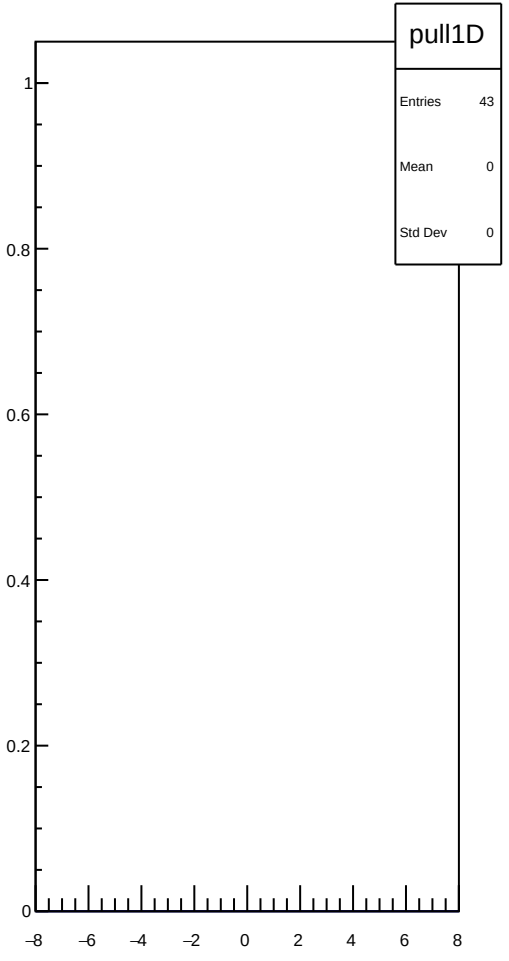

cor_sam_15_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

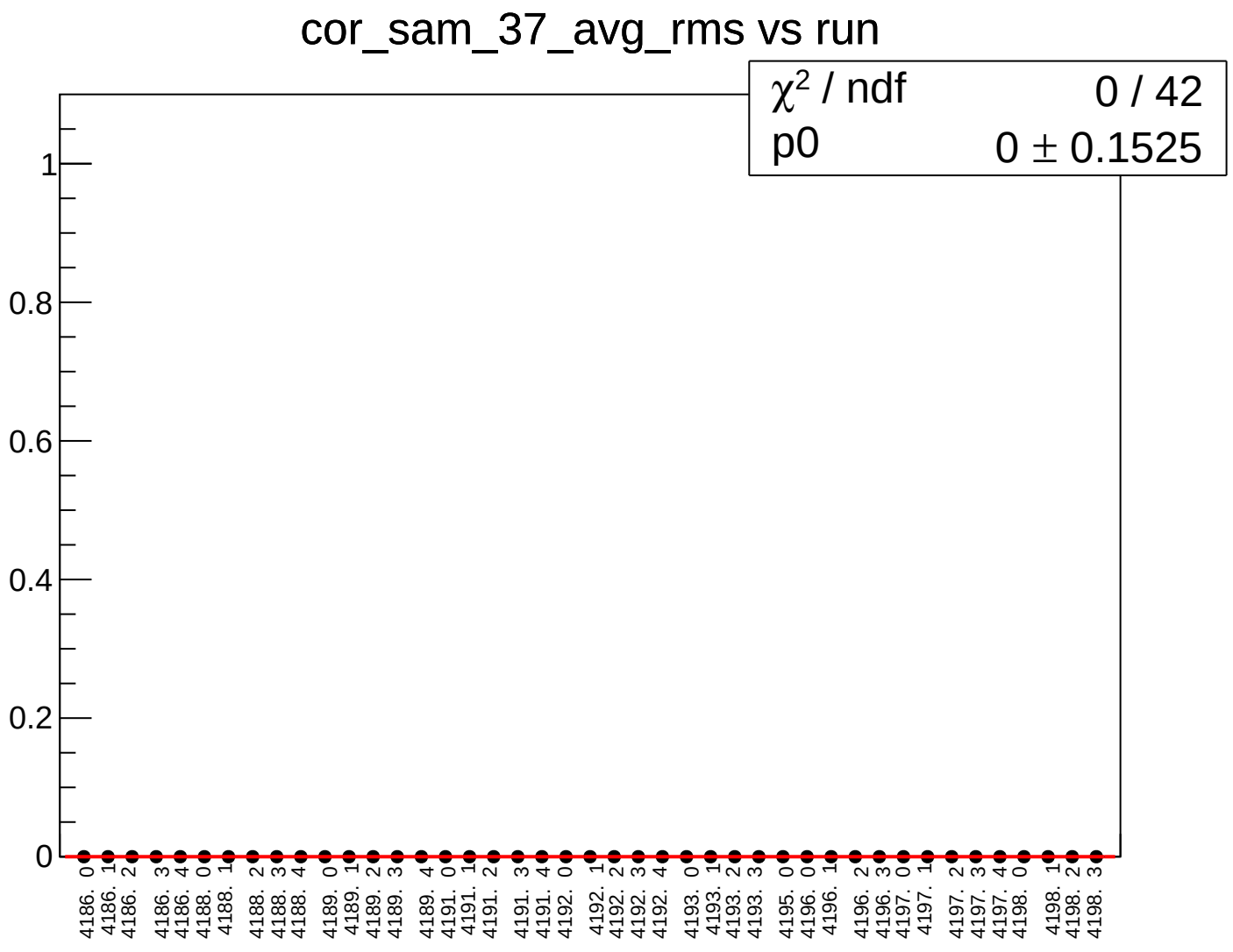

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

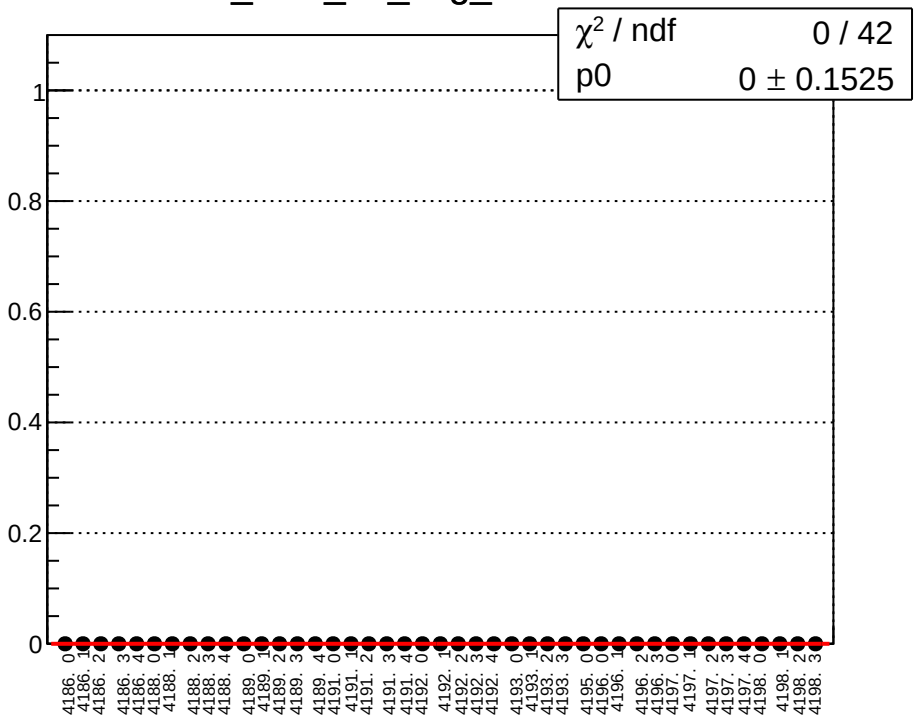

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

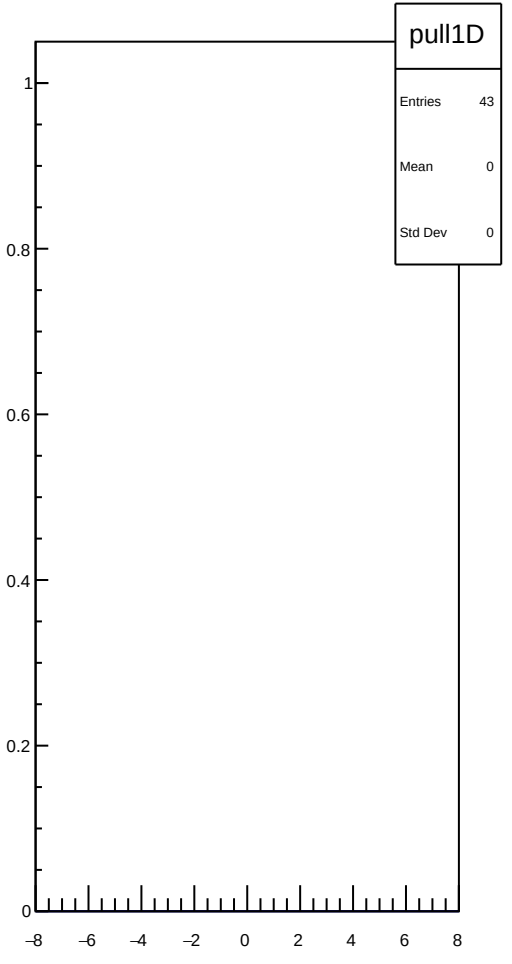

cor_sam_26_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

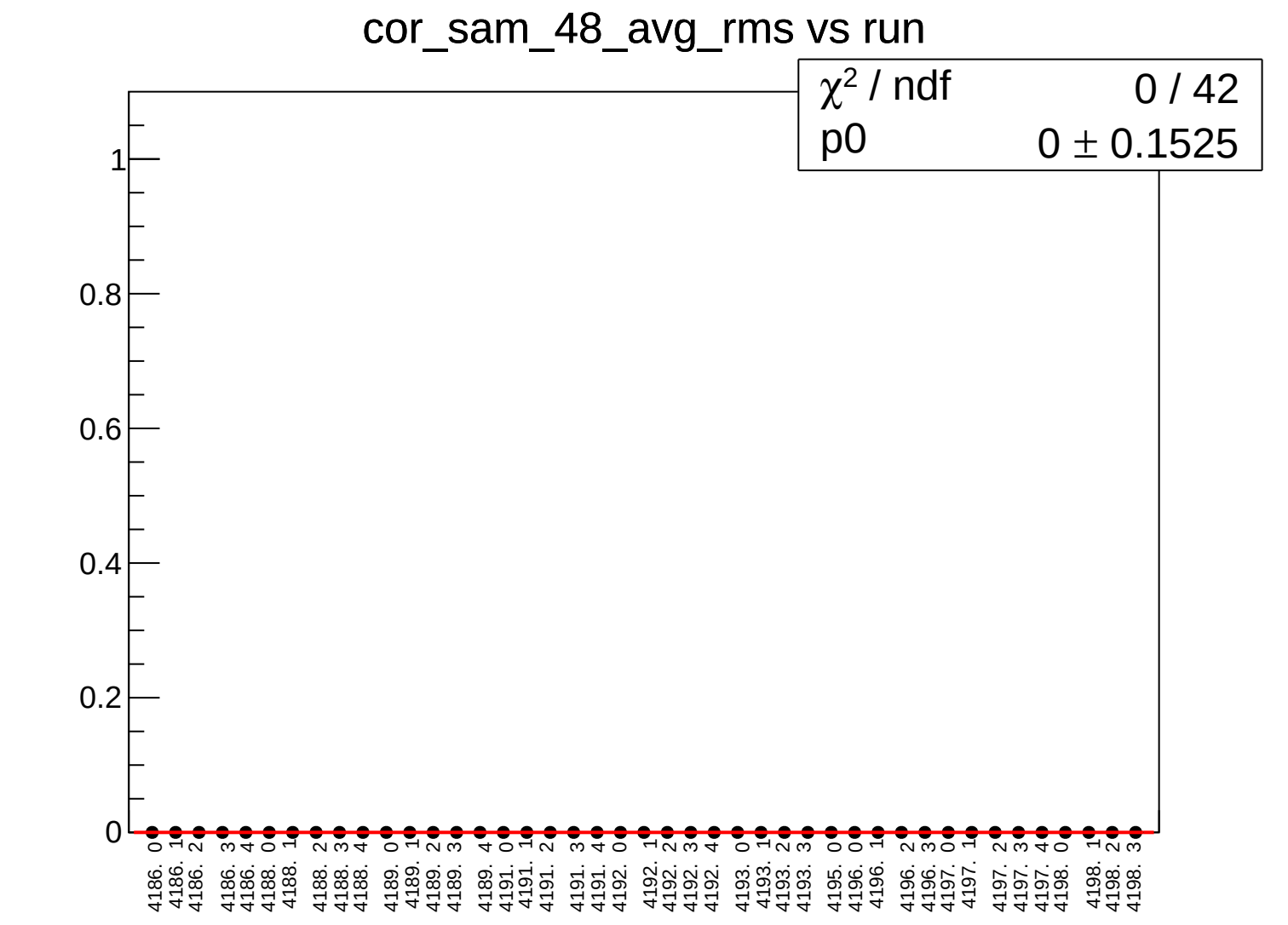

cor_sam_37_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

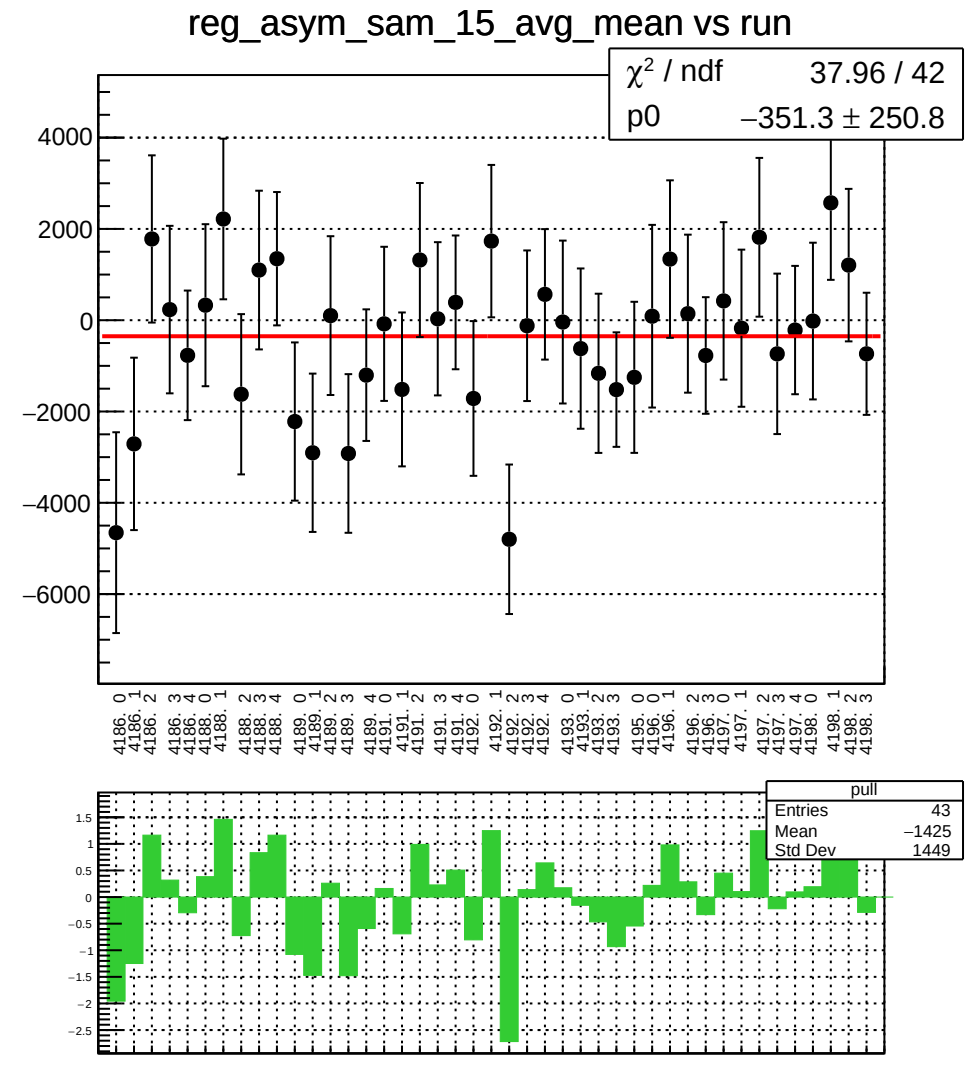

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

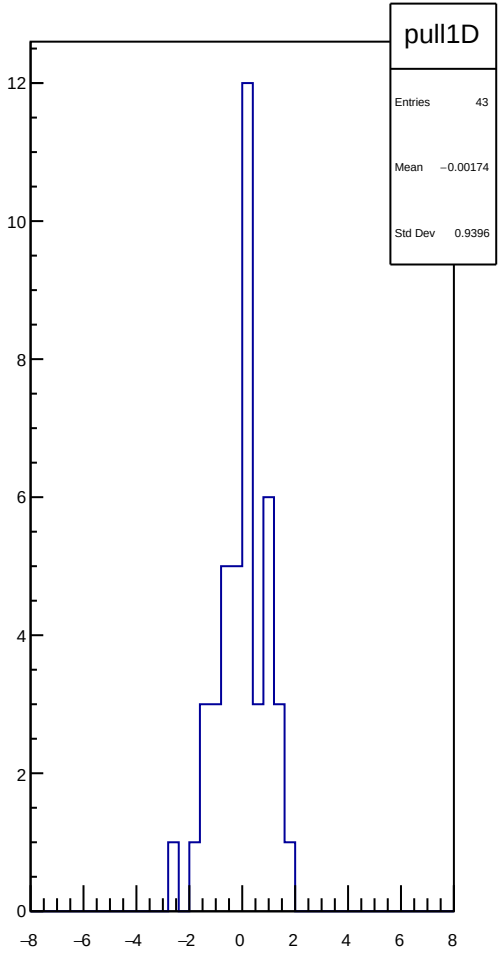

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

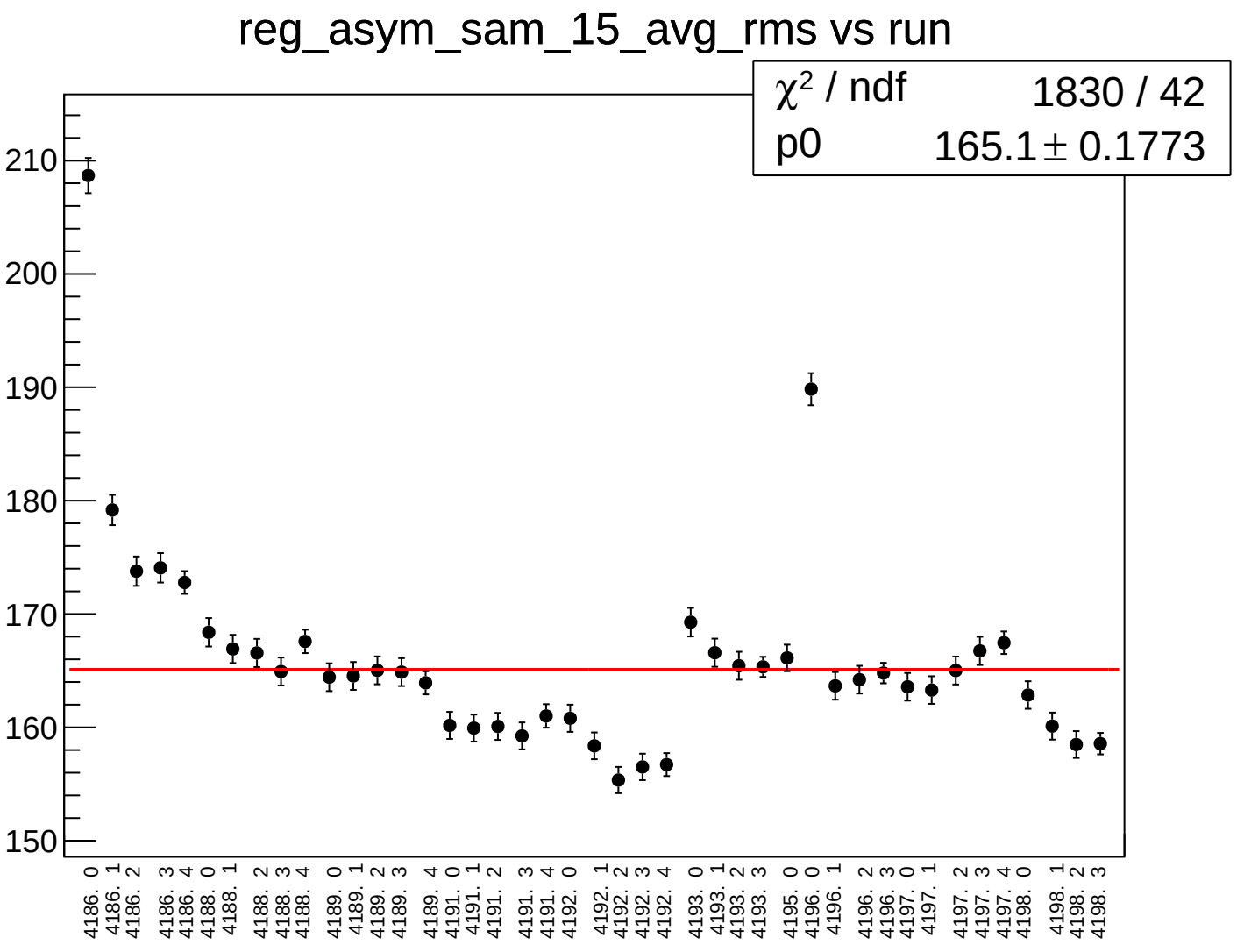

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

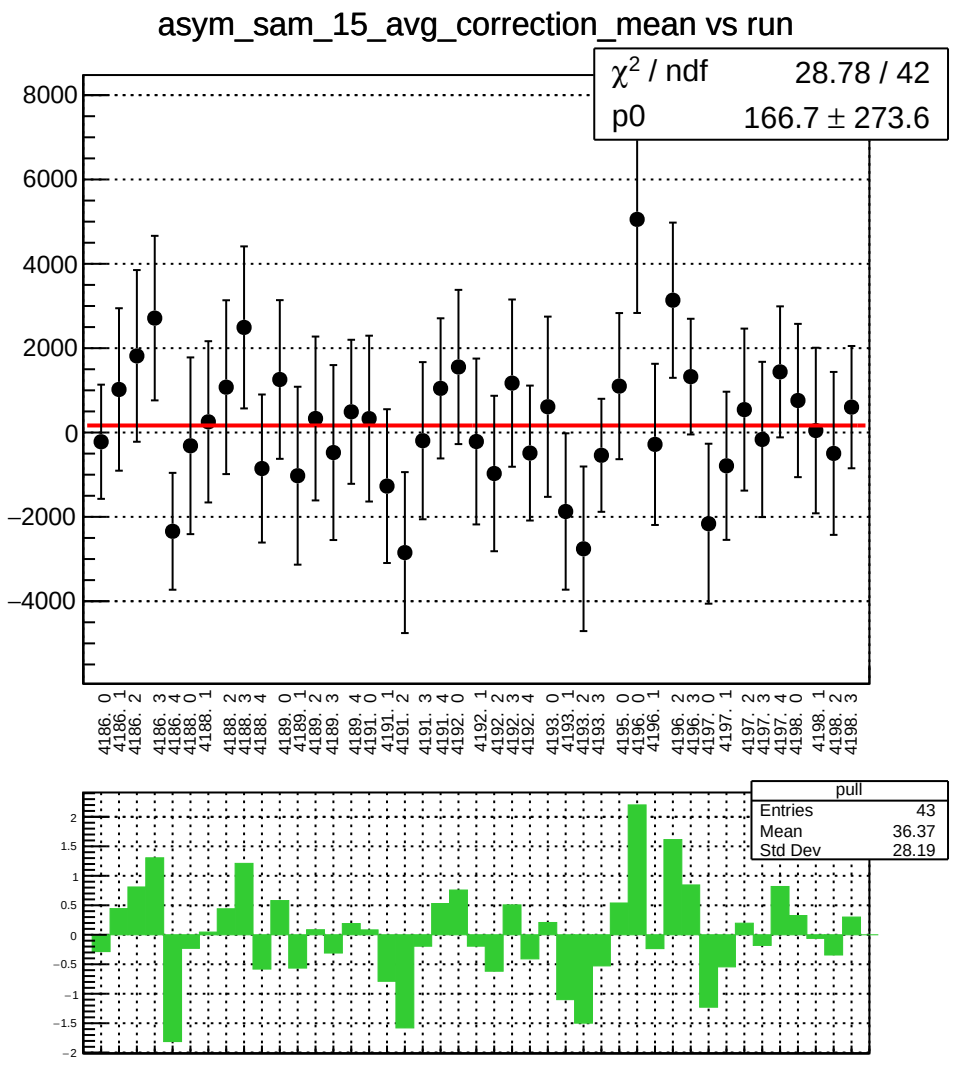

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

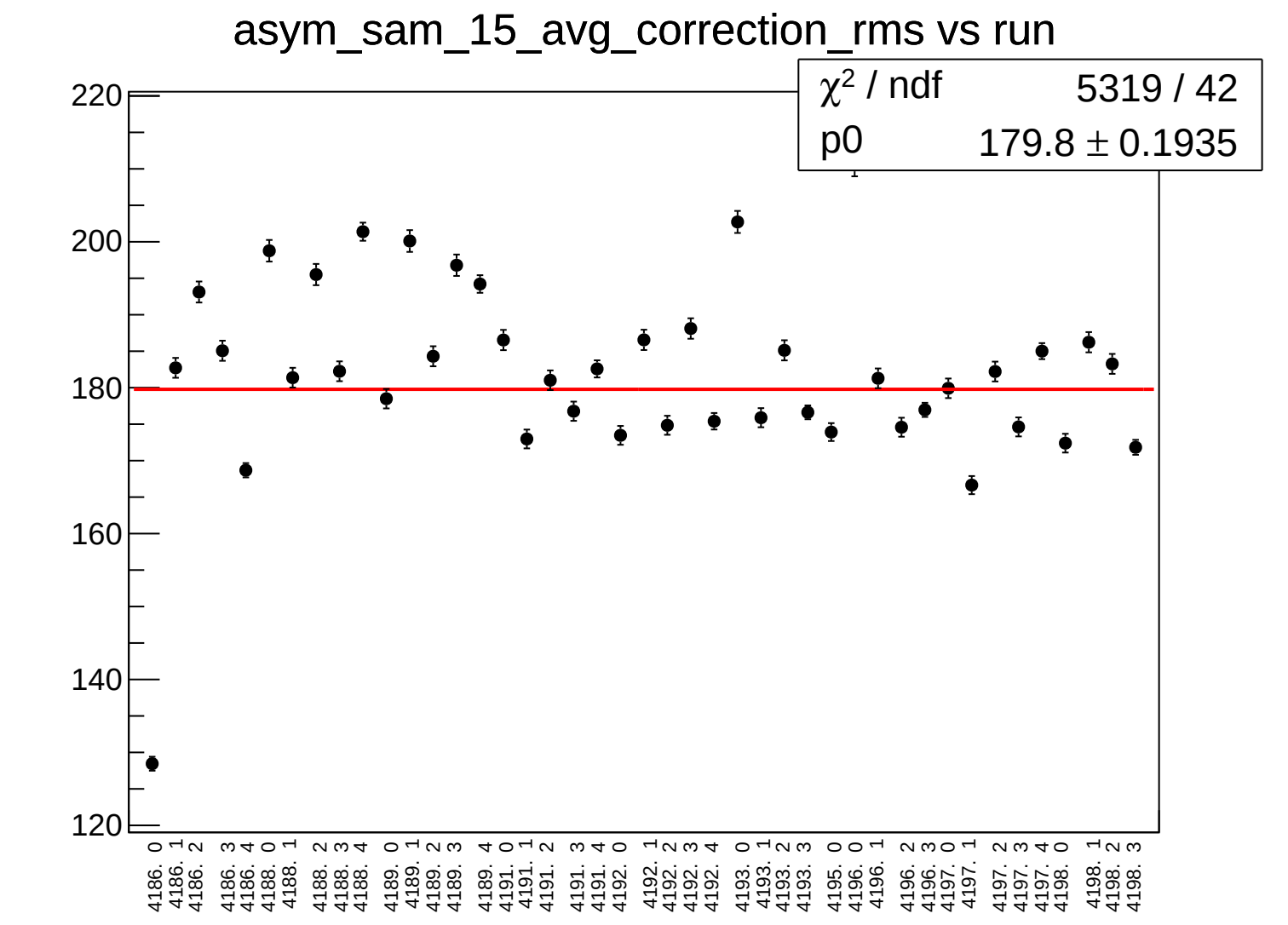

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

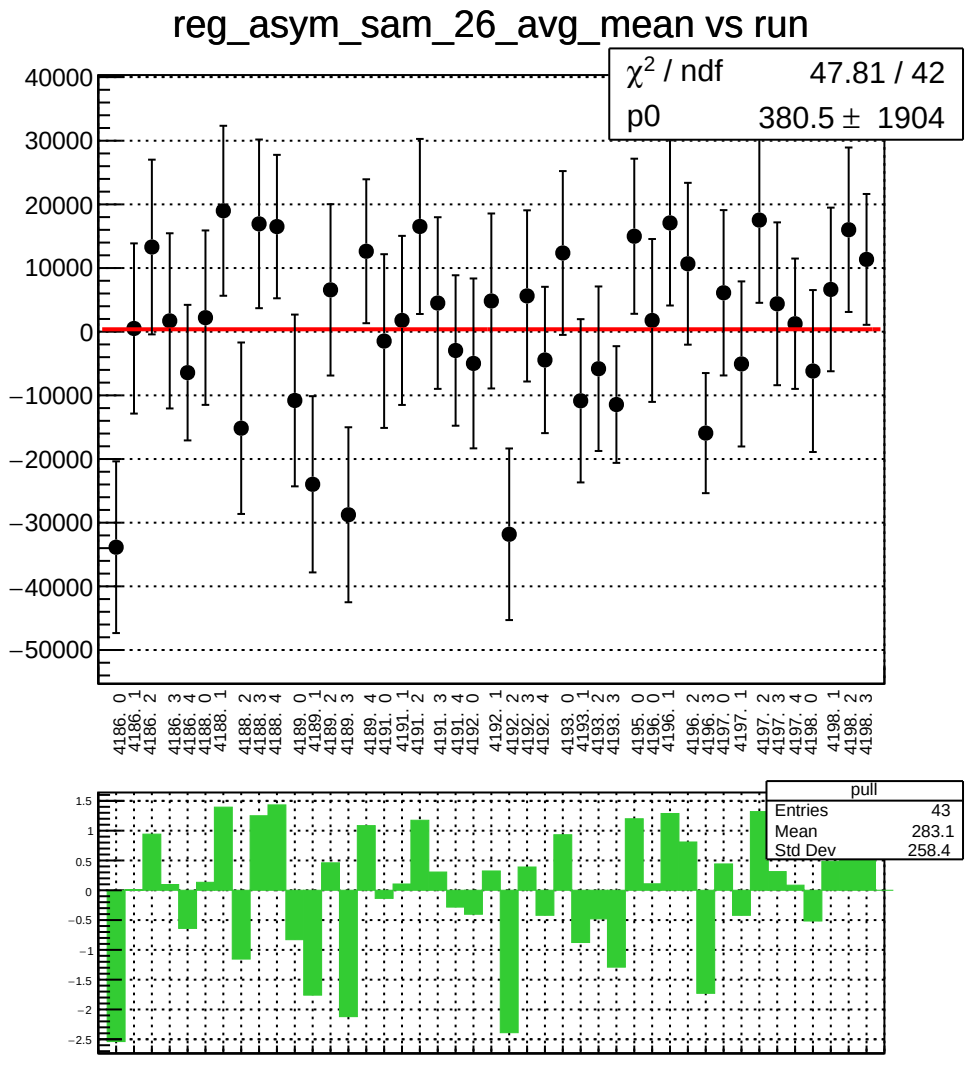

reg_asym_sam_15_avg_mean vs run
χ² / ndf 37.96 / 42
p0 −351.3 ± 250.8
4000
2000
0
−2000
−4000
−6000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1425
Std Dev 1449
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

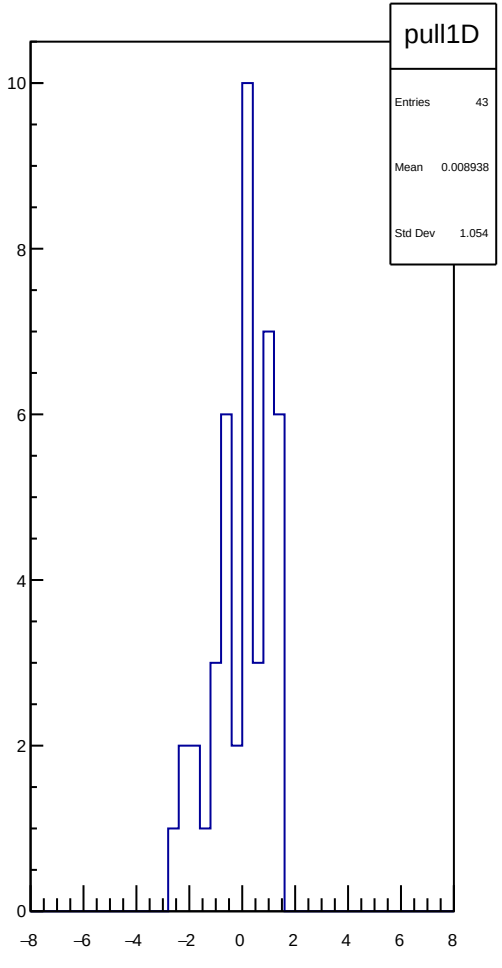

pull1D
Entries 43
Mean −0.00174
Std Dev 0.9396
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

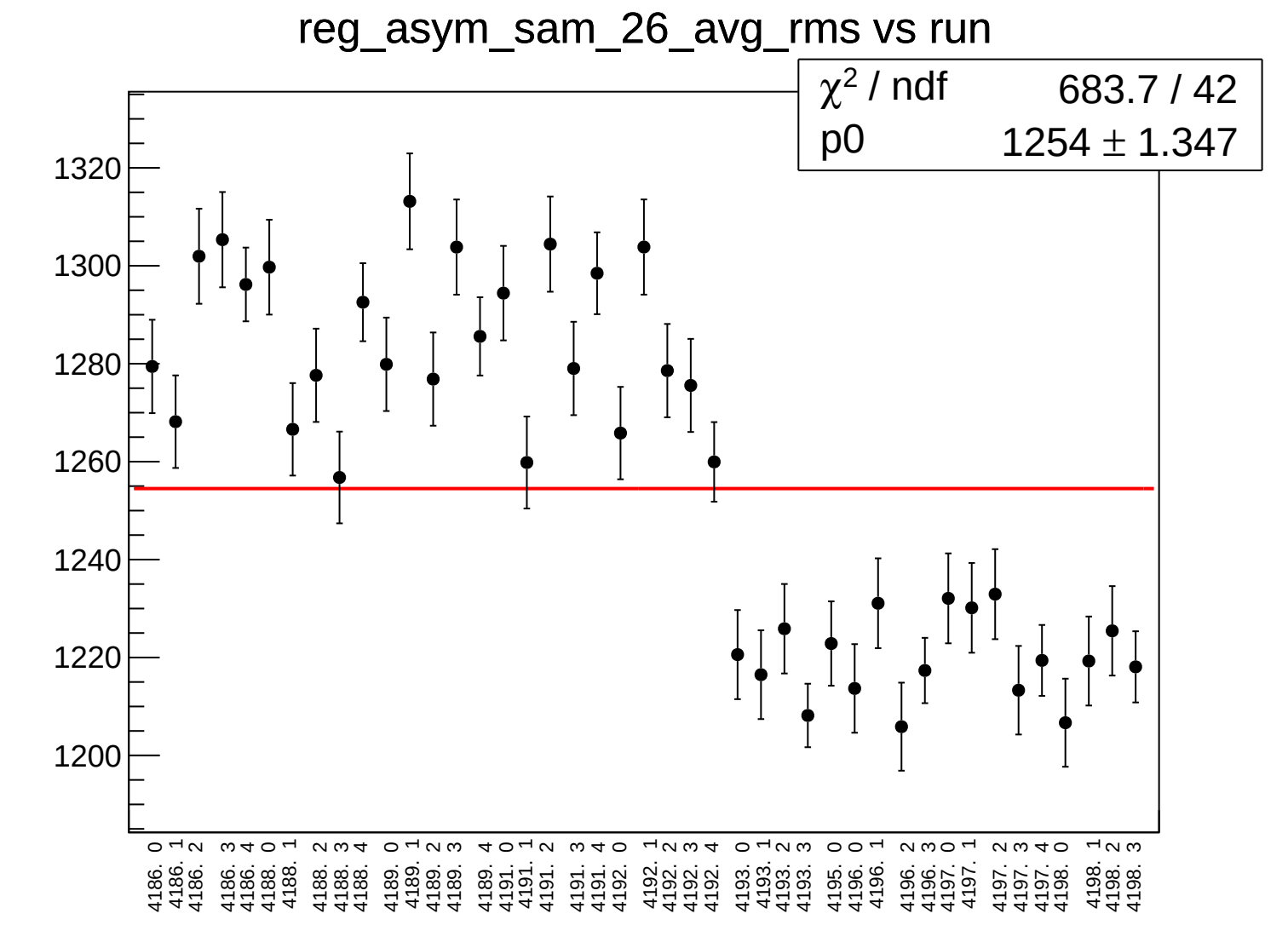

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1830 / 42
p0 165.1 ± 0.1773
210
200
190
180
170
160
150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

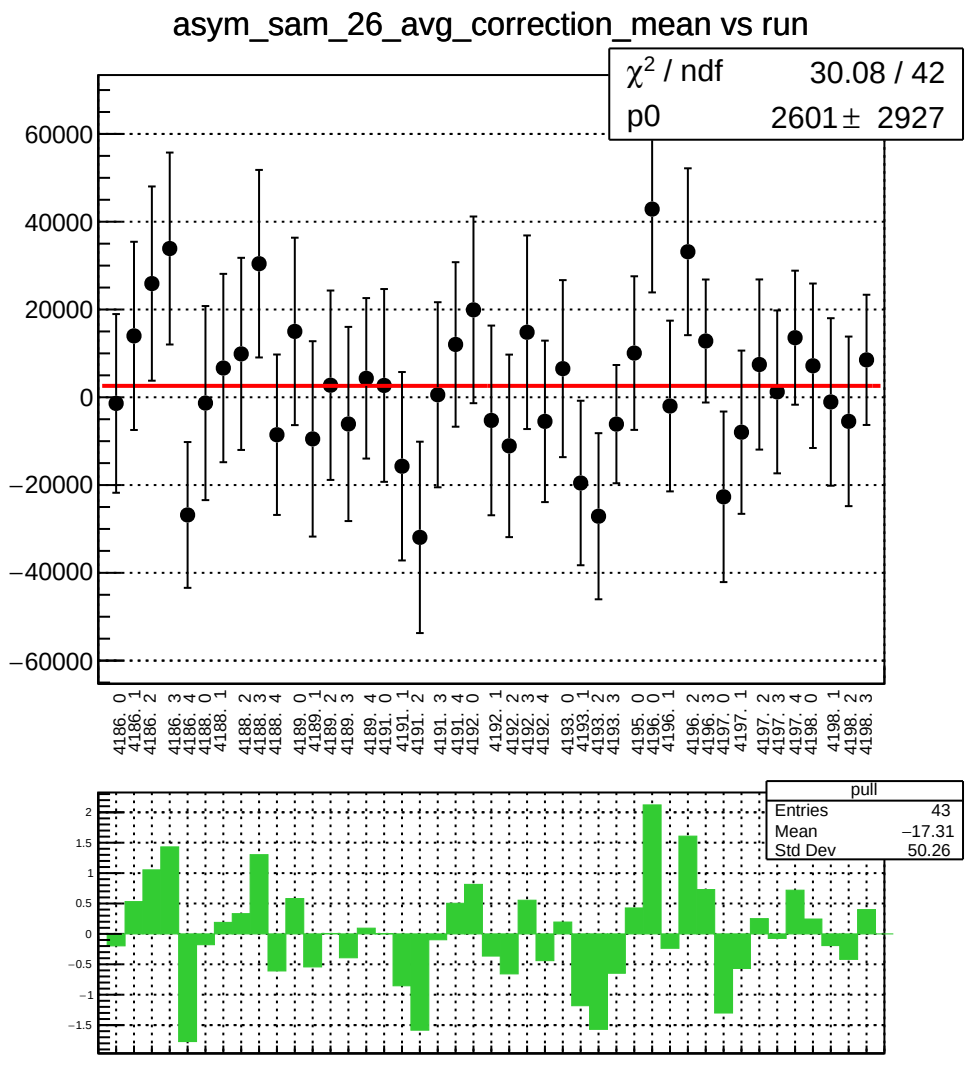

asym_sam_15_avg_correction_mean vs run
χ² / ndf 28.78 / 42
p0 166.7 ± 273.6
8000
6000
4000
2000
0
−2000
−4000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 36.37
Std Dev 28.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01766
Std Dev 0.8179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

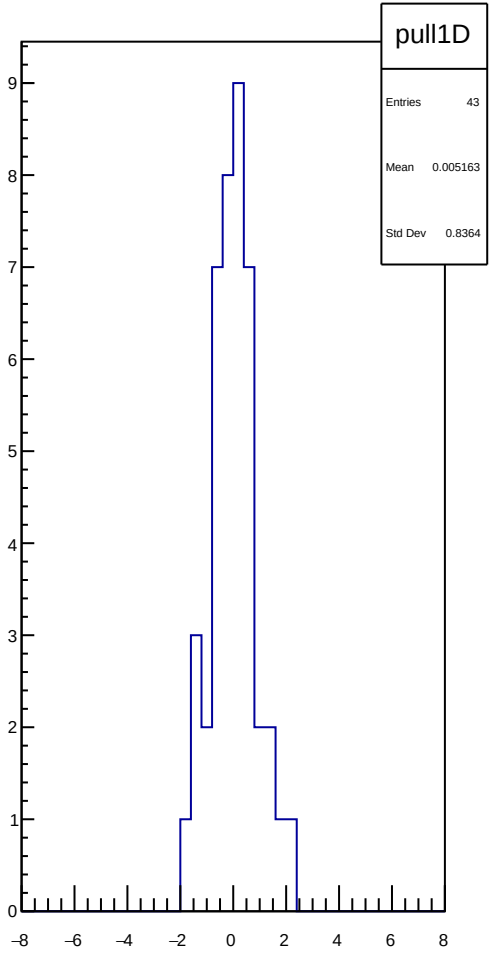

asym_sam_15_avg_correction_rms vs run
χ² / ndf 5319 / 42
p0 179.8 ± 0.1935
220
200
180
160
140
120
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

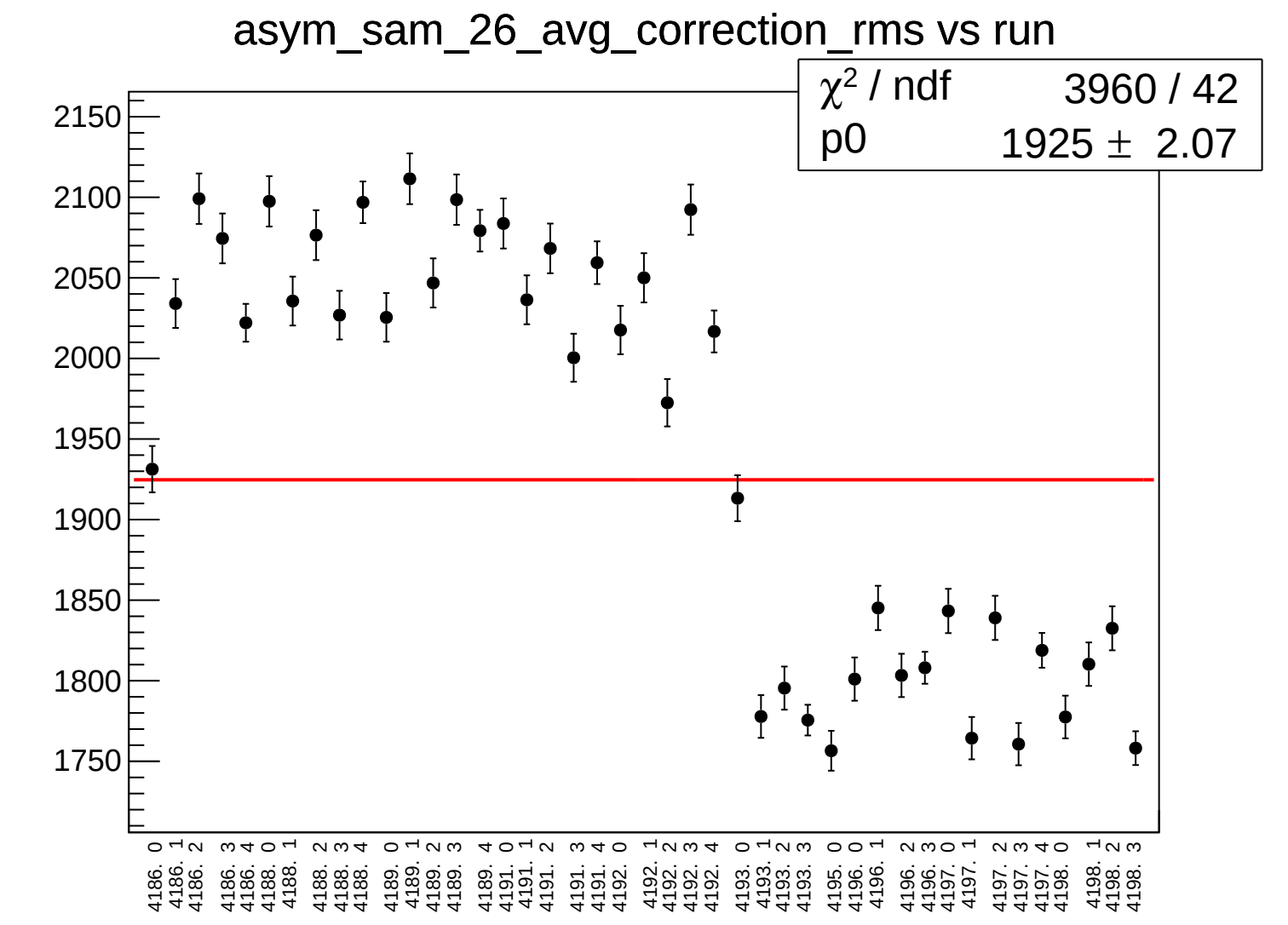

reg_asym_sam_26_avg_mean vs run
χ² / ndf 47.81 / 42
p0 380.5 ± 1904
pull
Entries 43
Mean 283.1
Std Dev 258.4

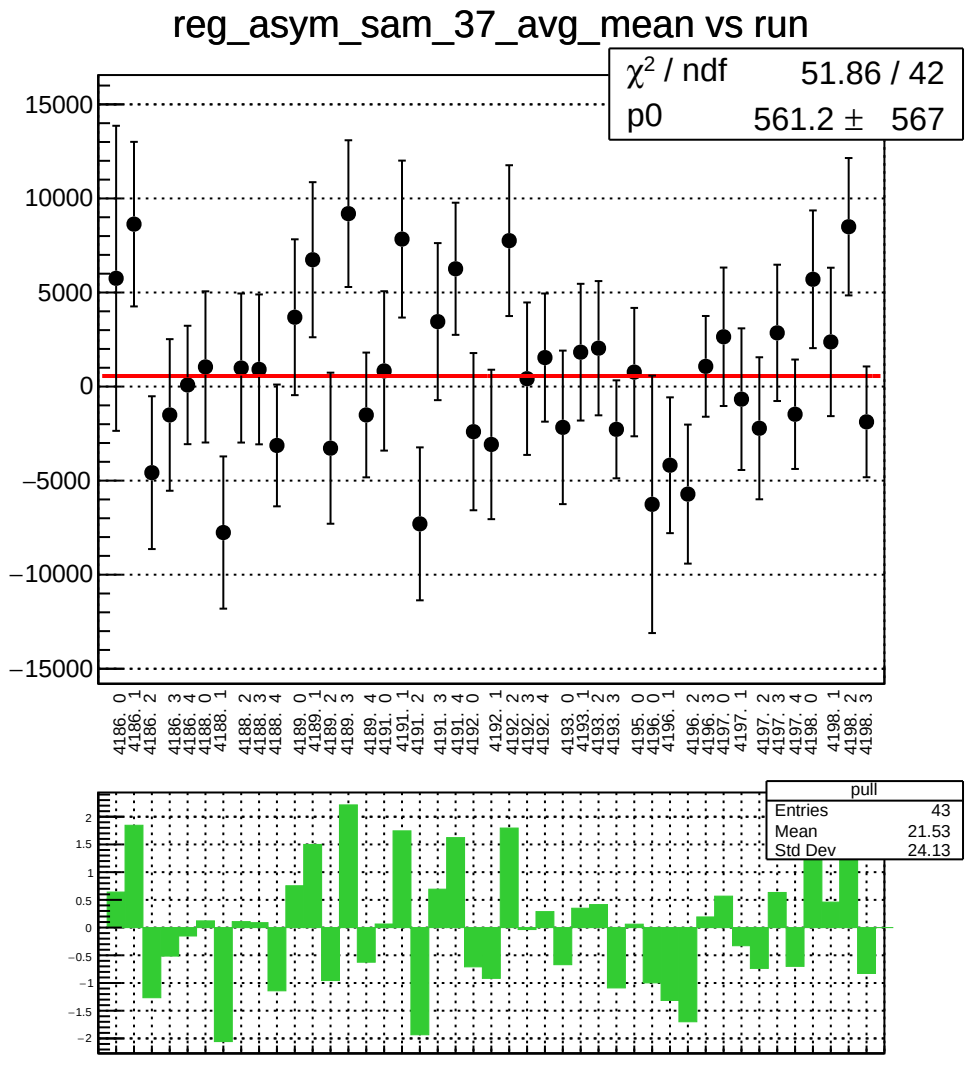

pull1D
Entries 43
Mean 0.008938
Std Dev 1.054

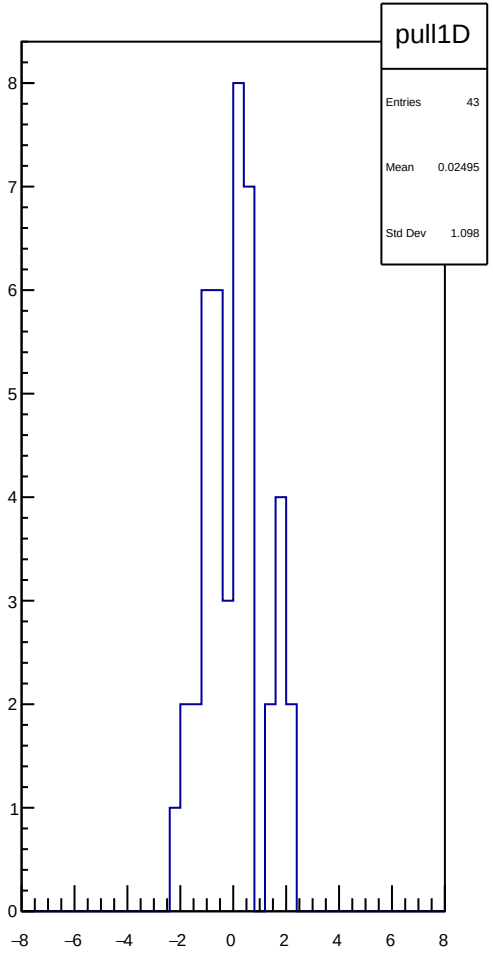

reg_asym_sam_26_avg_rms vs run
χ² / ndf 683.7 / 42
p0 1254 ± 1.347
1320
1300
1280
1260
1240
1220
1200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

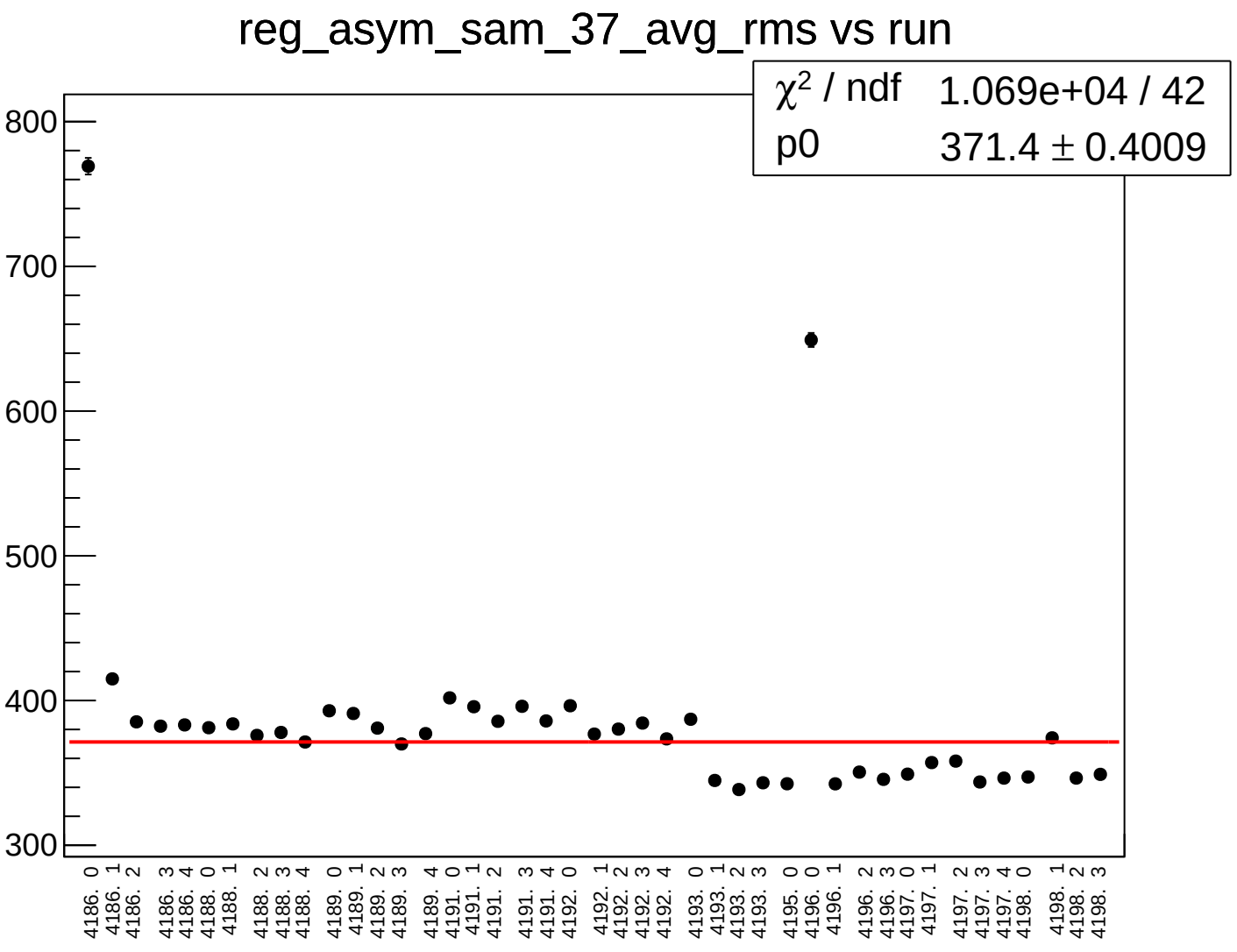

asym_sam_26_avg_correction_mean vs run
χ^2 / ndf 30.08 / 42
p0 2601 ± 2927
60000
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −17.31
Std Dev 50.26
2
1.5
1
0.5
0
−0.5
−1
−1.5

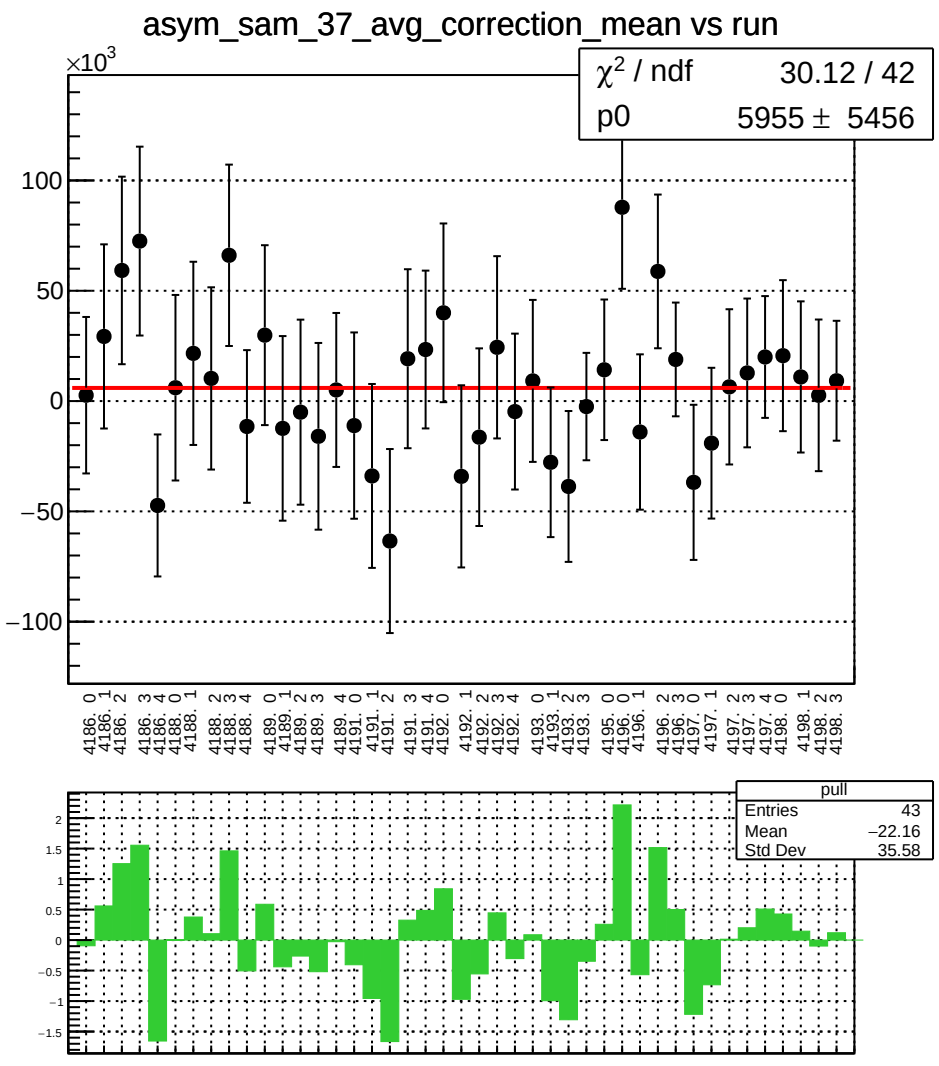

pull1D
Entries 43
Mean 0.005163
Std Dev 0.8364
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

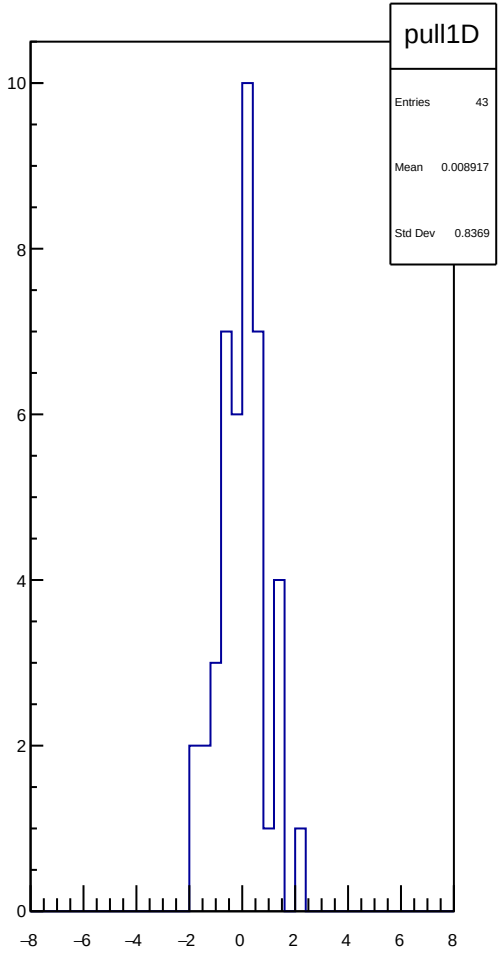

asym_sam_26_avg_correction_rms vs run
χ² / ndf 3960 / 42
p0 1925 ± 2.07
2150
2100
2050
2000
1950
1900
1850
1800
1750
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

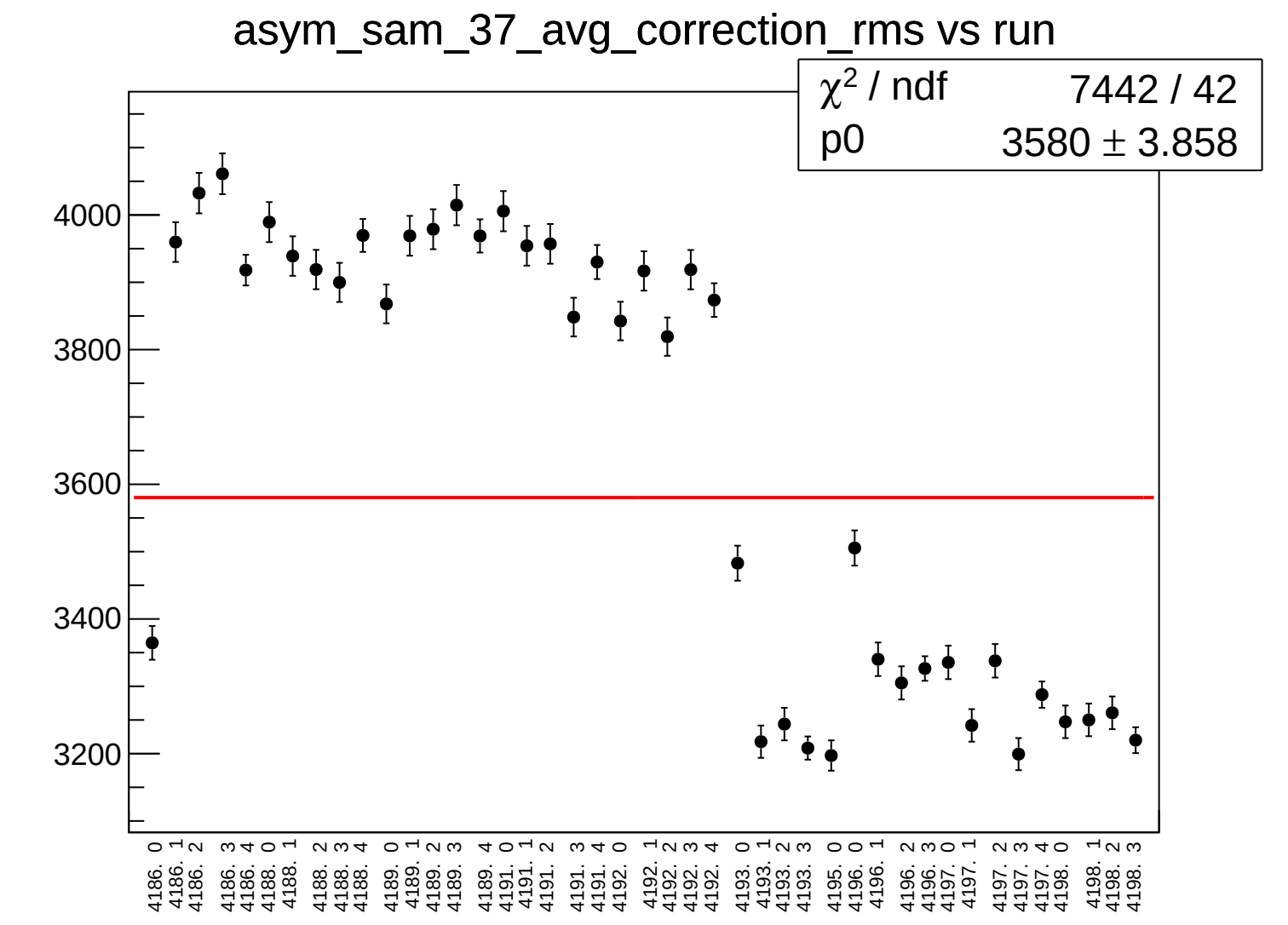

reg_asym_sam_37_avg_mean vs run
χ² / ndf 51.86 / 42
p0 561.2 ± 567
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 21.53
Std Dev 24.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

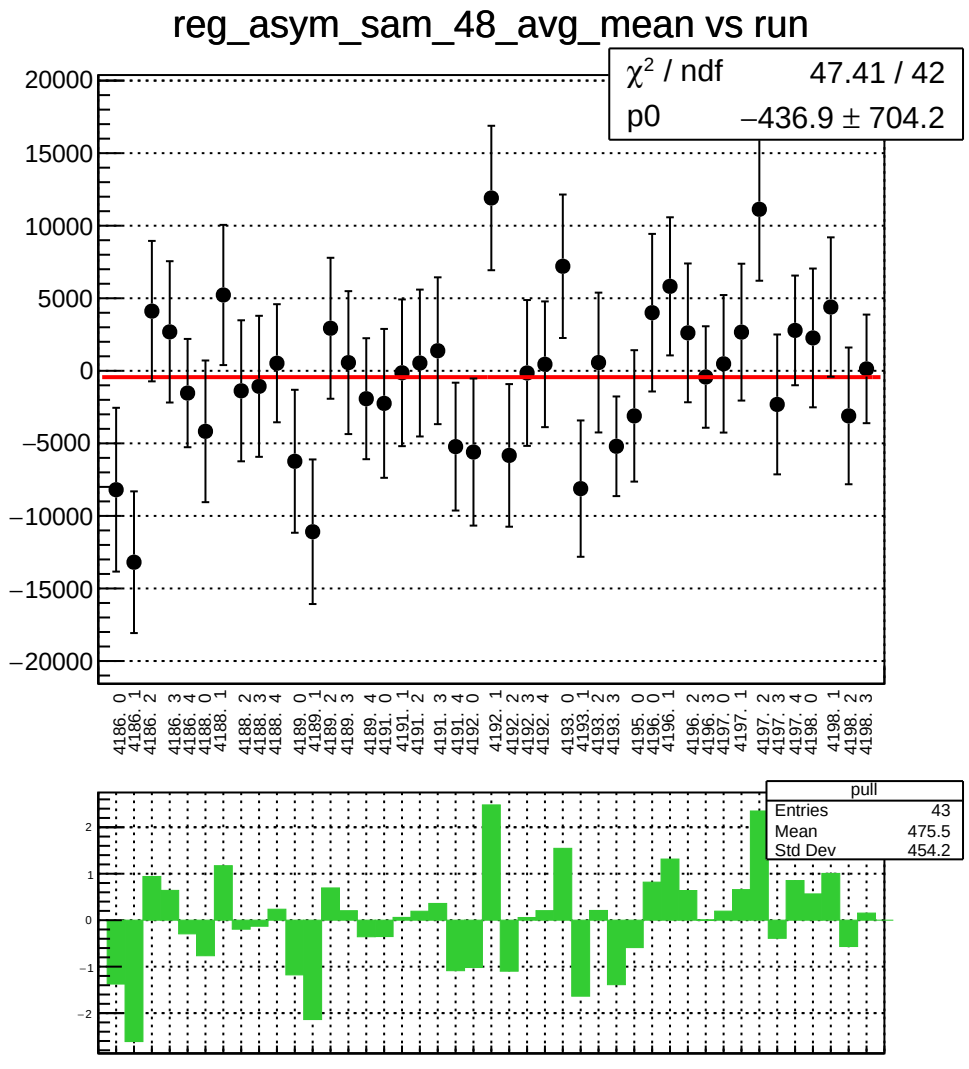

pull1D
Entries 43
Mean 0.02495
Std Dev 1.098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

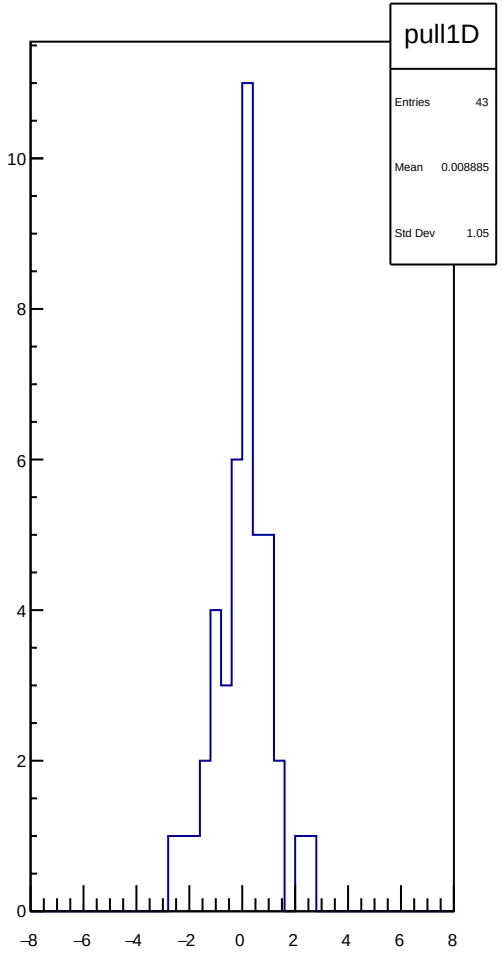

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.069e+04 / 42
p0 371.4 ± 0.4009
800
700
600
500
400
300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

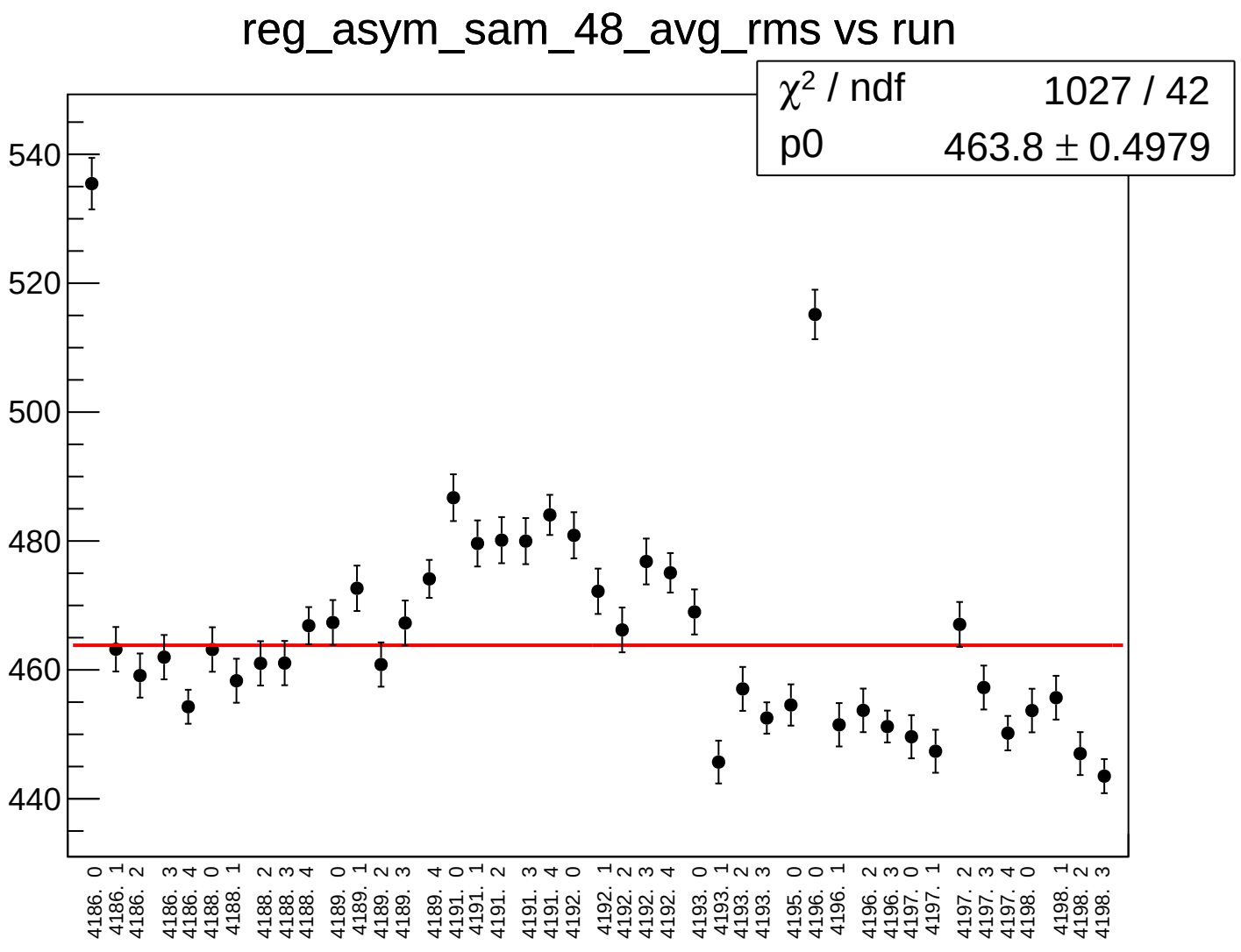

asym_sam_37_avg_correction_mean vs run
×10^3
χ^2 / ndf 30.12 / 42
p0 5955 ± 5456
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −22.16
Std Dev 35.58
2
1.5
1
0.5
0
−0.5
−1
−1.5

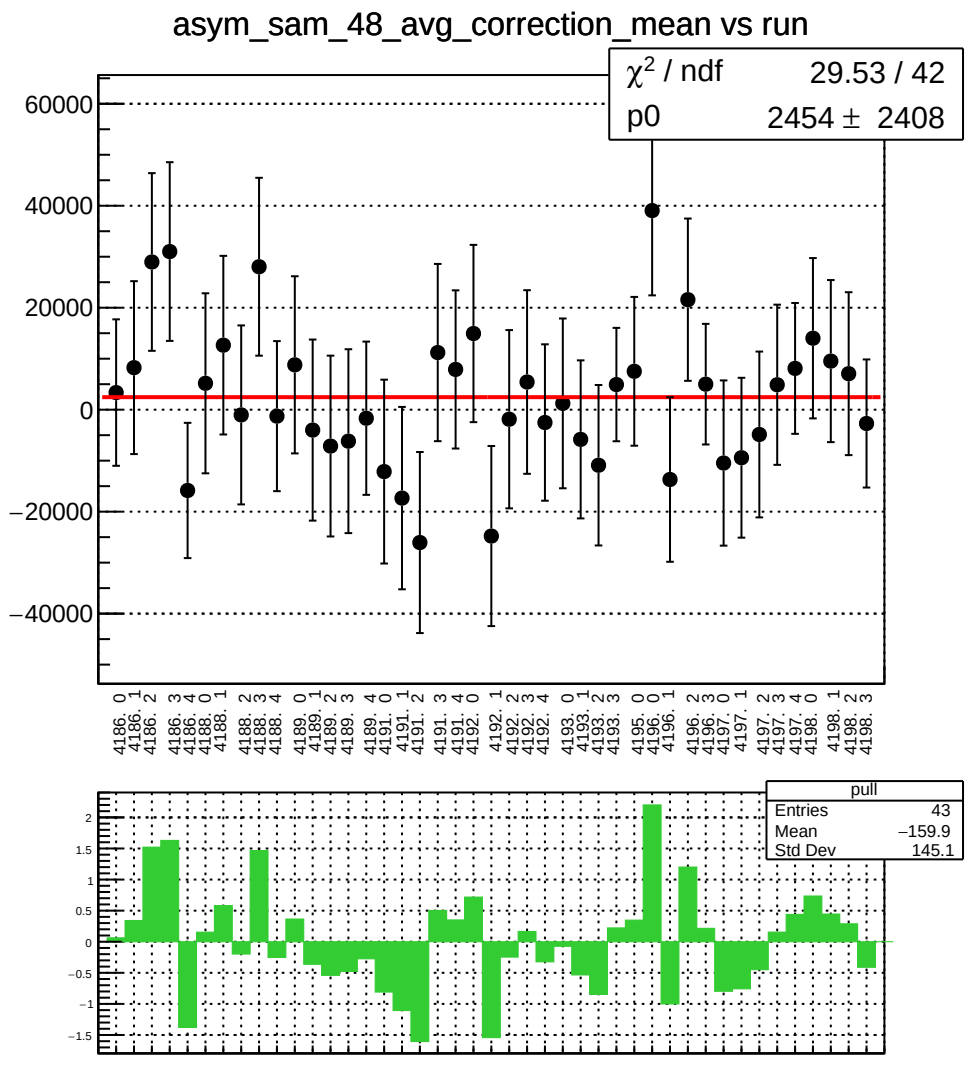

pull1D
Entries 43
Mean 0.008917
Std Dev 0.8369
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

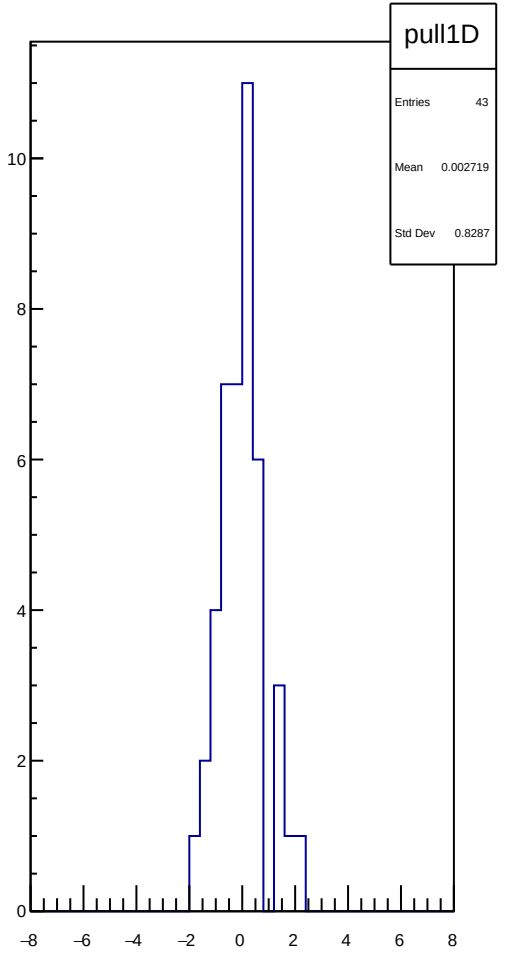

asym_sam_37_avg_correction_rms vs run
χ² / ndf 7442 / 42
p0 3580 ± 3.858
4000
3800
3600
3400
3200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

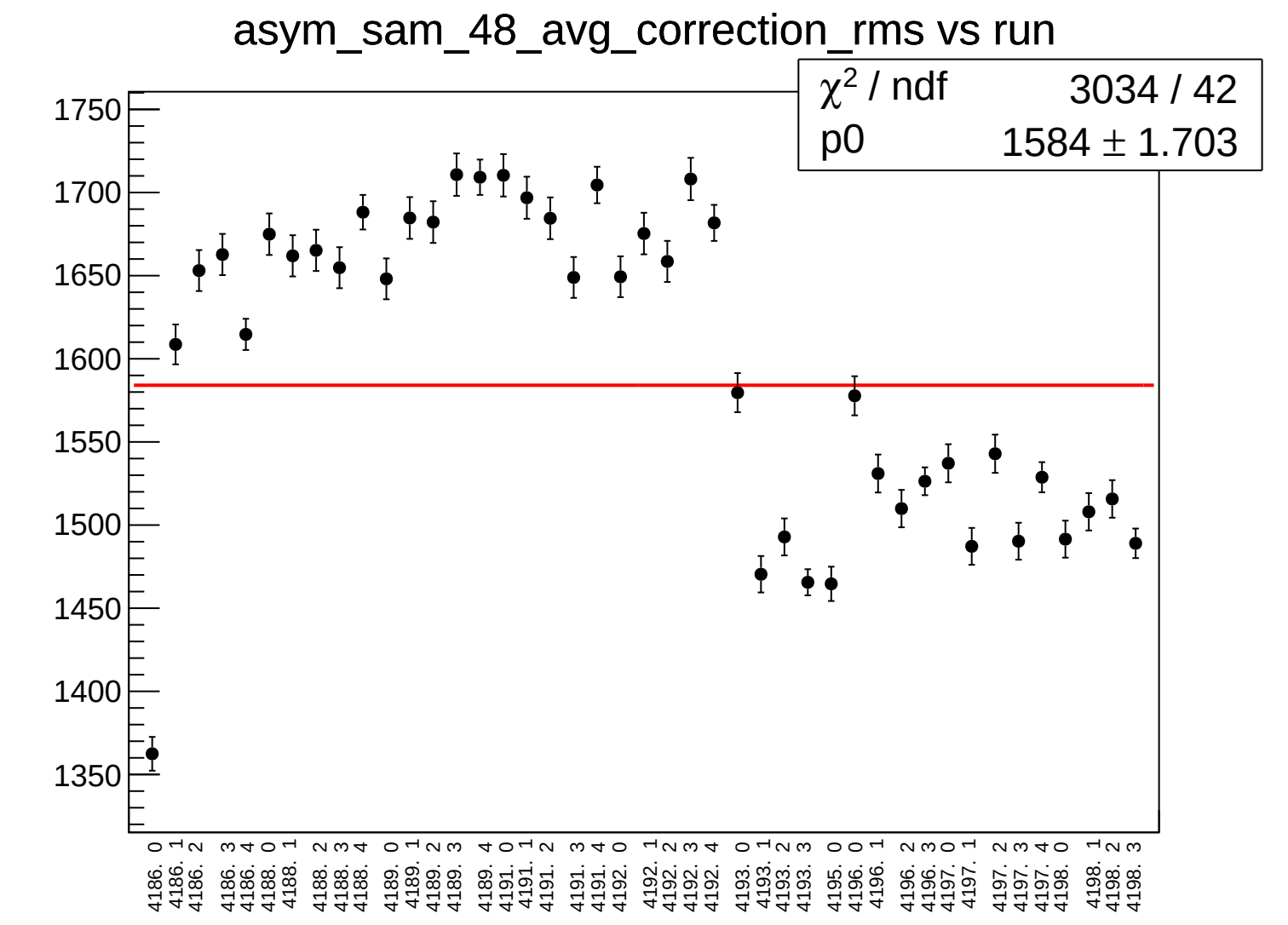

reg_asym_sam_48_avg_mean vs run
χ² / ndf 47.41 / 42
p0 −436.9 ± 704.2
pull
Entries 43
Mean 475.5
Std Dev 454.2

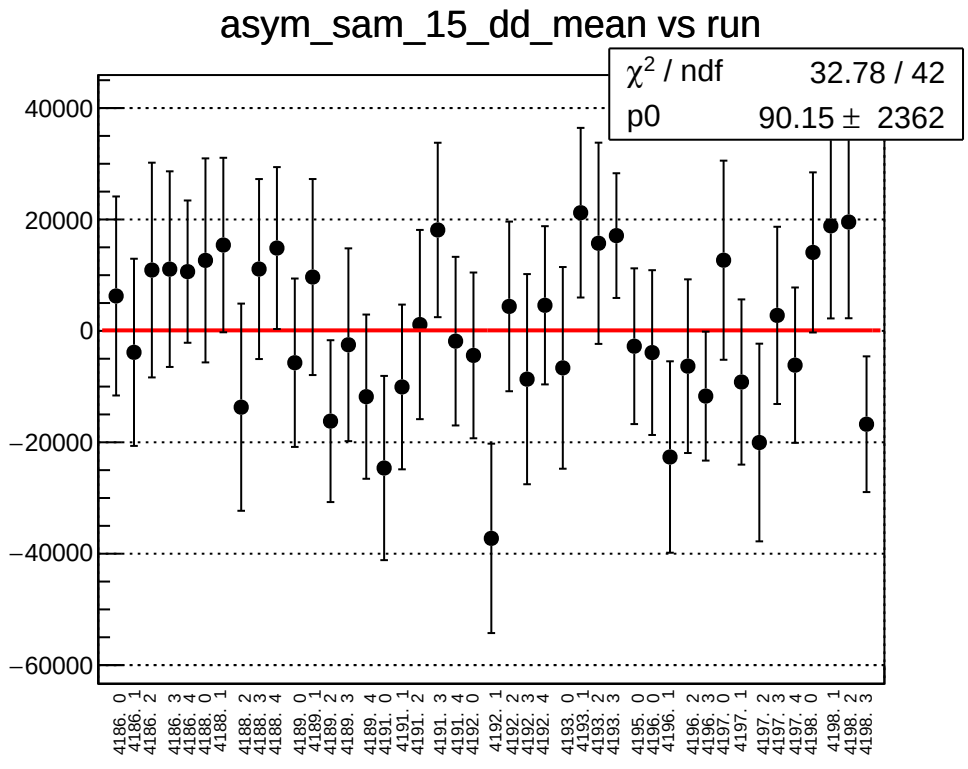

pull1D
Entries 43
Mean 0.008885
Std Dev 1.05

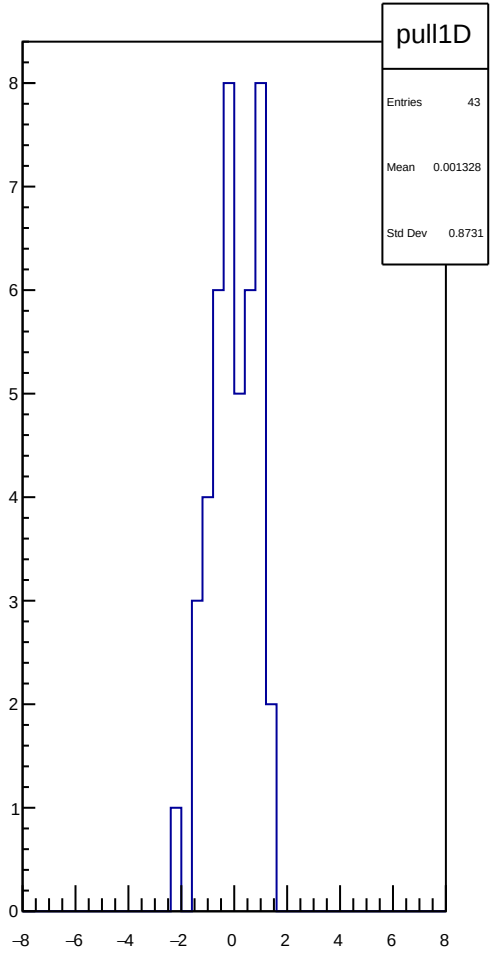

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1027 / 42
p0 463.8 ± 0.4979
540
520
500
480
460
440
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

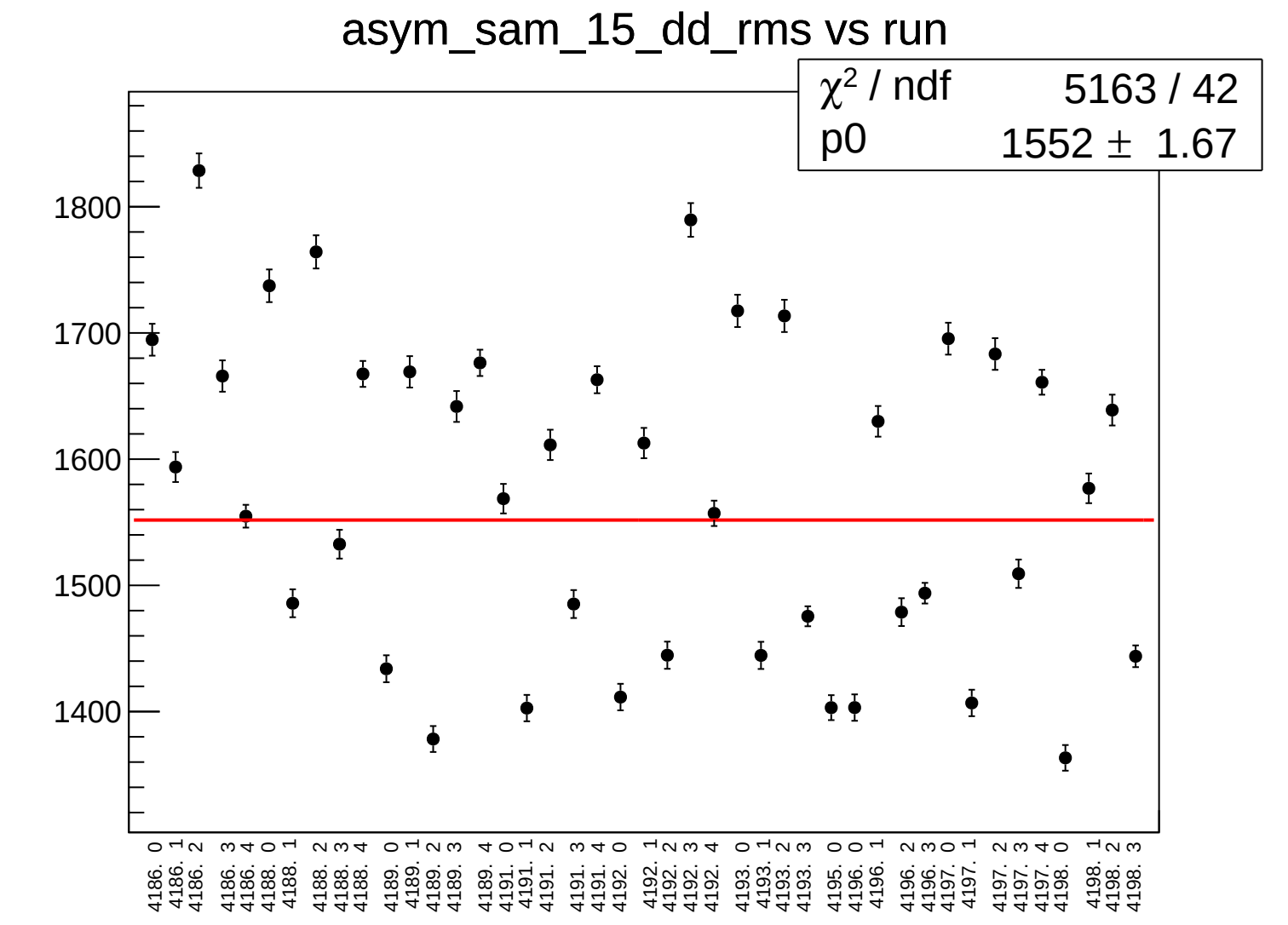

asym_sam_48_avg_correction_mean vs run
χ² / ndf 29.53 / 42
p0 2454 ± 2408
60000
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −159.9
Std Dev 145.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

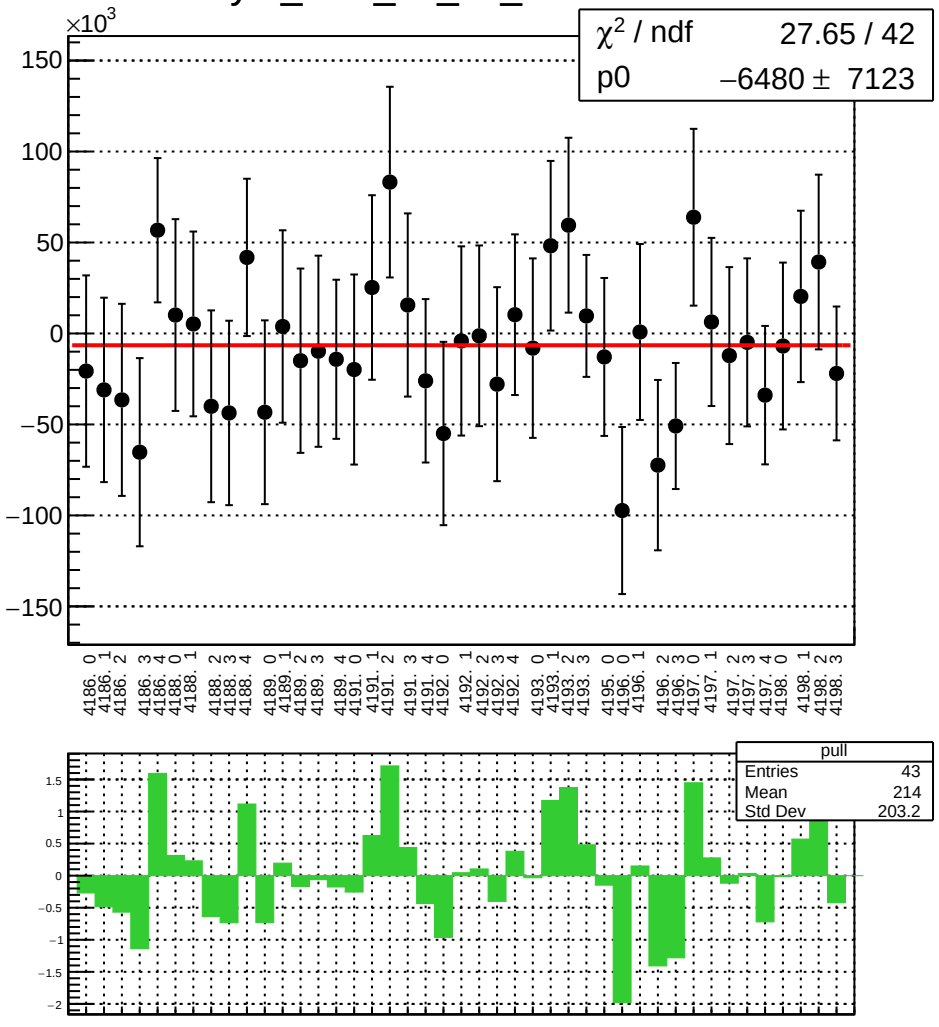

pull1D
Entries 43
Mean 0.002719
Std Dev 0.8287
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

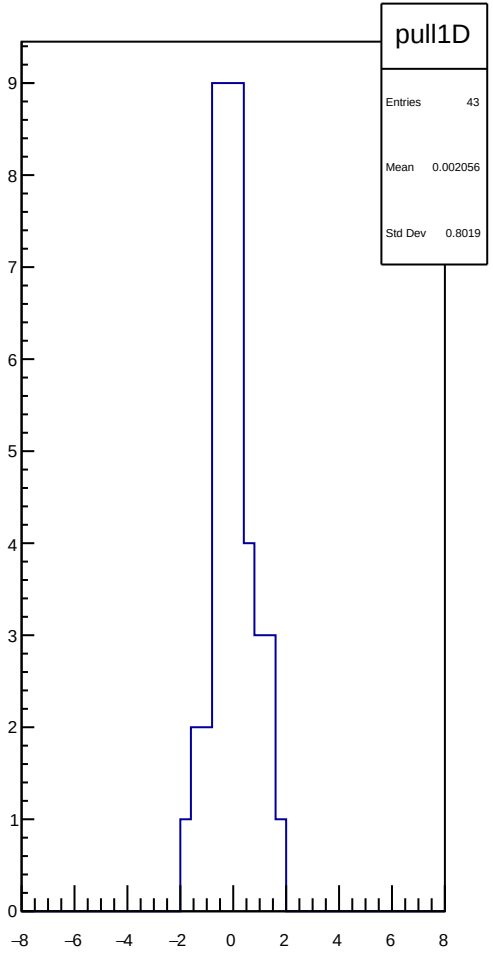

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3034 / 42
p0 1584 ± 1.703
1750
1700
1650
1600
1550
1500
1450
1400
1350
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

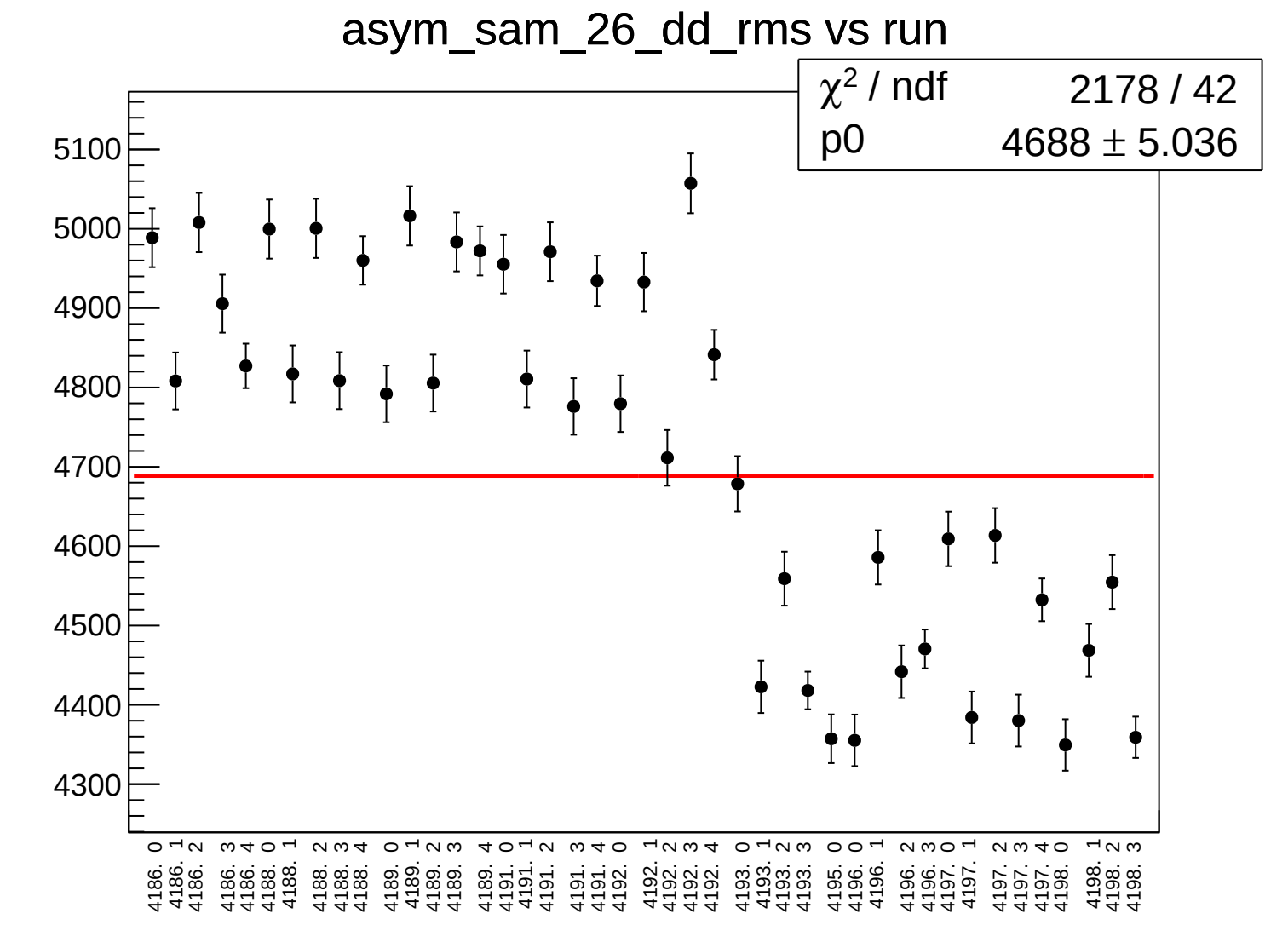

asym_sam_15_dd_mean vs run
χ² / ndf 32.78 / 42
p0 90.15 ± 2362
40000
20000
0
−20000
−40000
−60000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −878.8
Std Dev 890.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

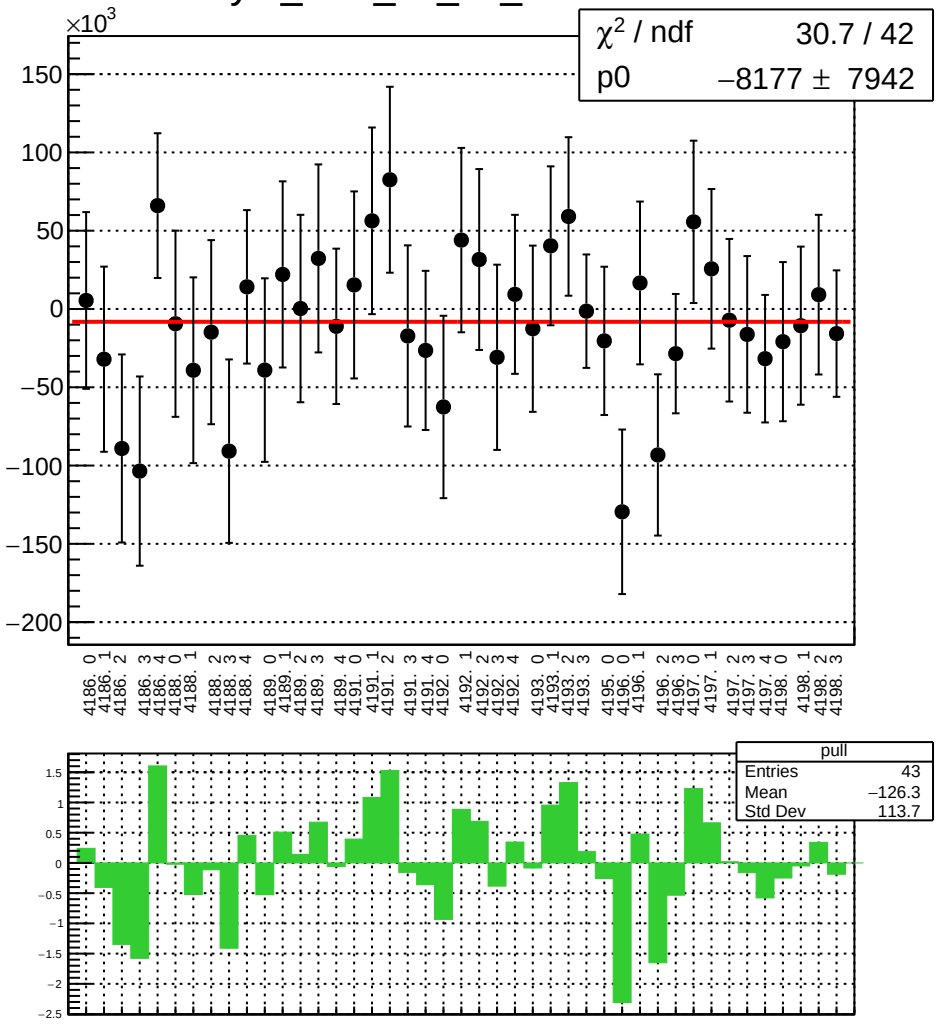

pull1D
Entries 43
Mean 0.001328
Std Dev 0.8731
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

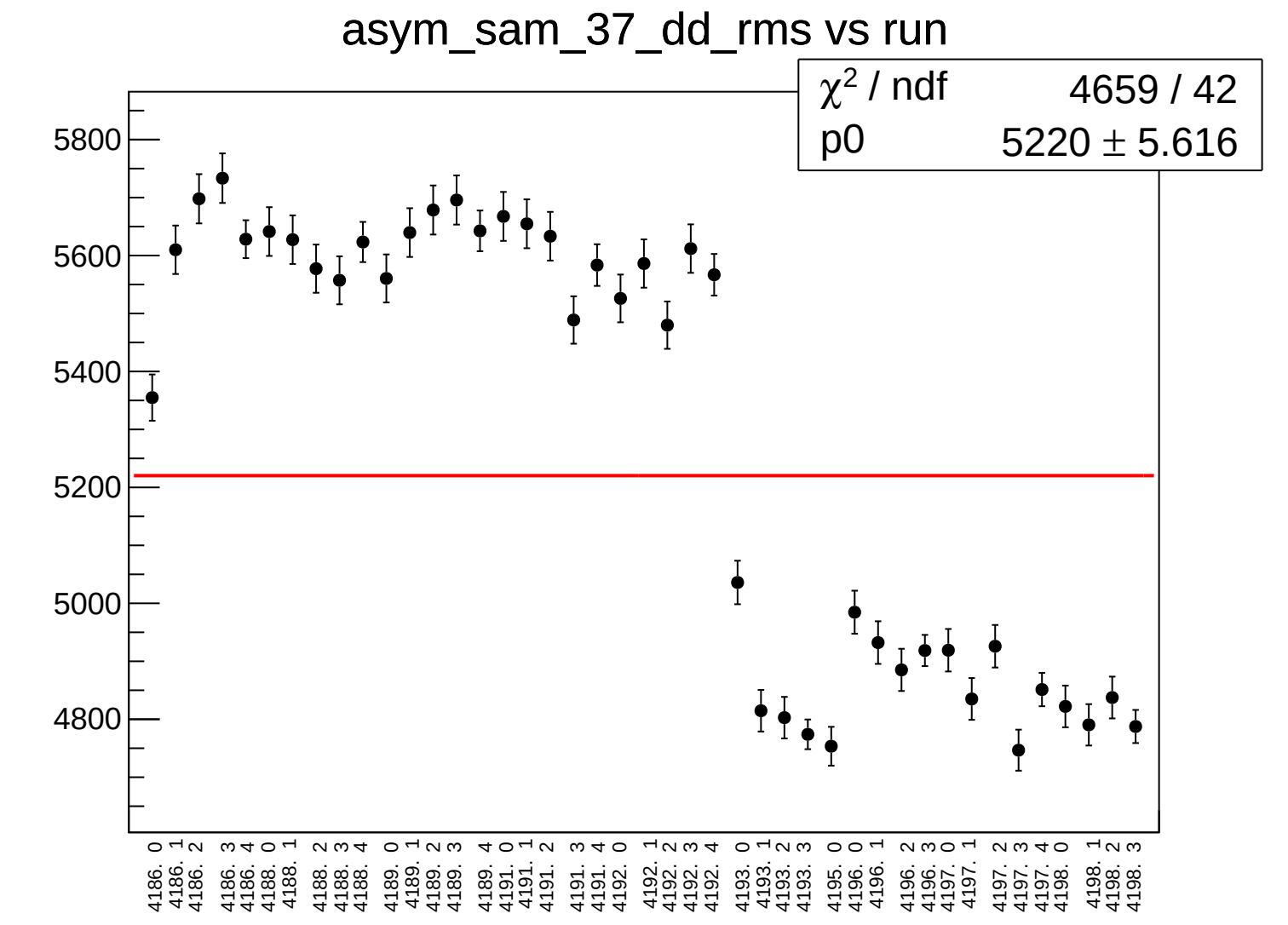

asym_sam_15_dd_rms vs run
χ² / ndf 5163 / 42
p0 1552 ± 1.67
1800
1700
1600
1500
1400
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

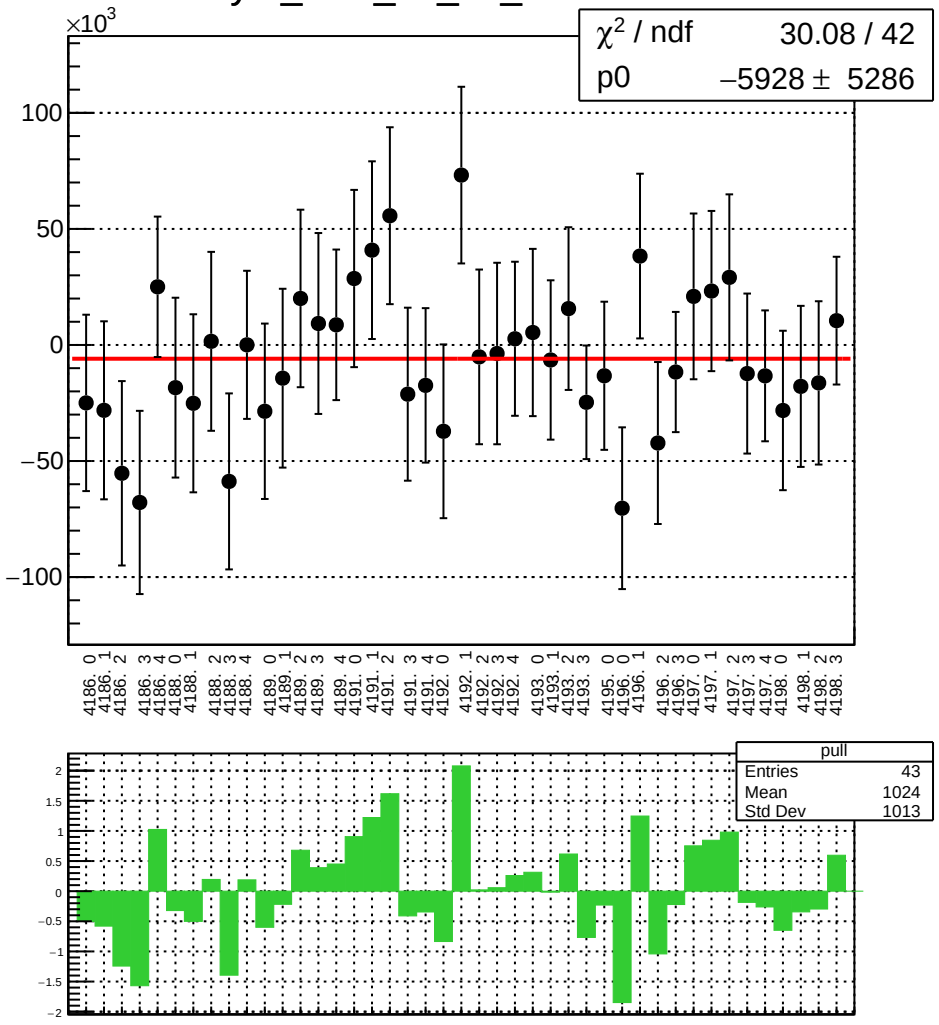

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 27.65 / 42
p0 −6480 ± 7123
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 214
Std Dev 203.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

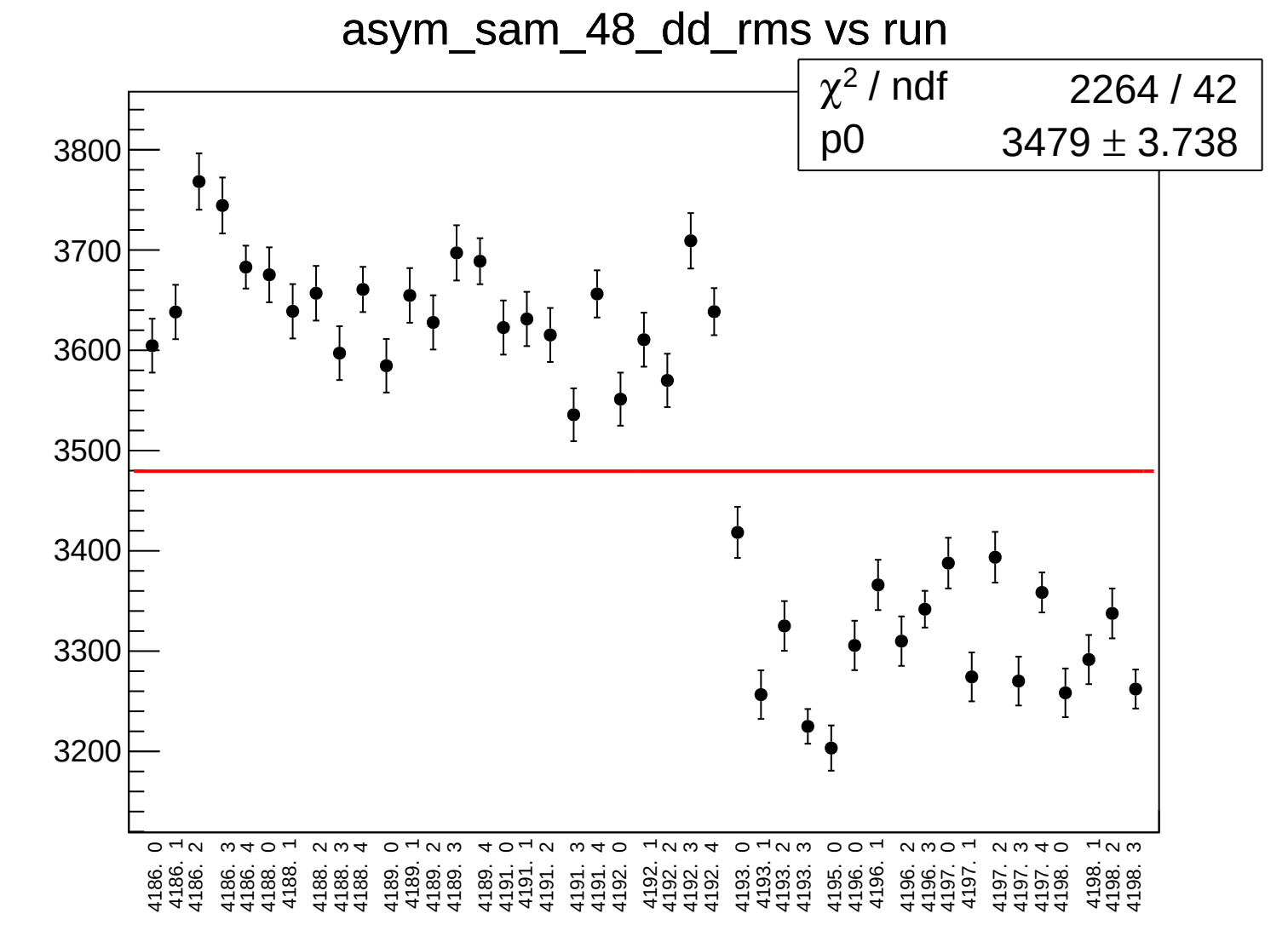

pull1D
Entries 43
Mean 0.002056
Std Dev 0.8019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_rms vs run
χ² / ndf 2178 / 42
p0 4688 ± 5.036
5100
5000
4900
4800
4700
4600
4500
4400
4300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3


asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 30.7 / 42
p0 −8177 ± 7942
150
100
50
0
−50
−100
−150
−200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −126.3
Std Dev 113.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.002783
Std Dev 0.845
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_rms vs run
χ² / ndf 4659 / 42
p0 5220 ± 5.616
5800
5600
5400
5200
5000
4800
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3


asym_sam_48_dd_mean vs run
χ² / ndf 30.08 / 42
p0 −5928 ± 5286
×10³
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1024
Std Dev 1013
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001417
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_rms vs run
χ² / ndf 2264 / 42
p0 3479 ± 3.738
3800
3700
3600
3500
3400
3300
3200
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
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4196. 2
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4197. 3
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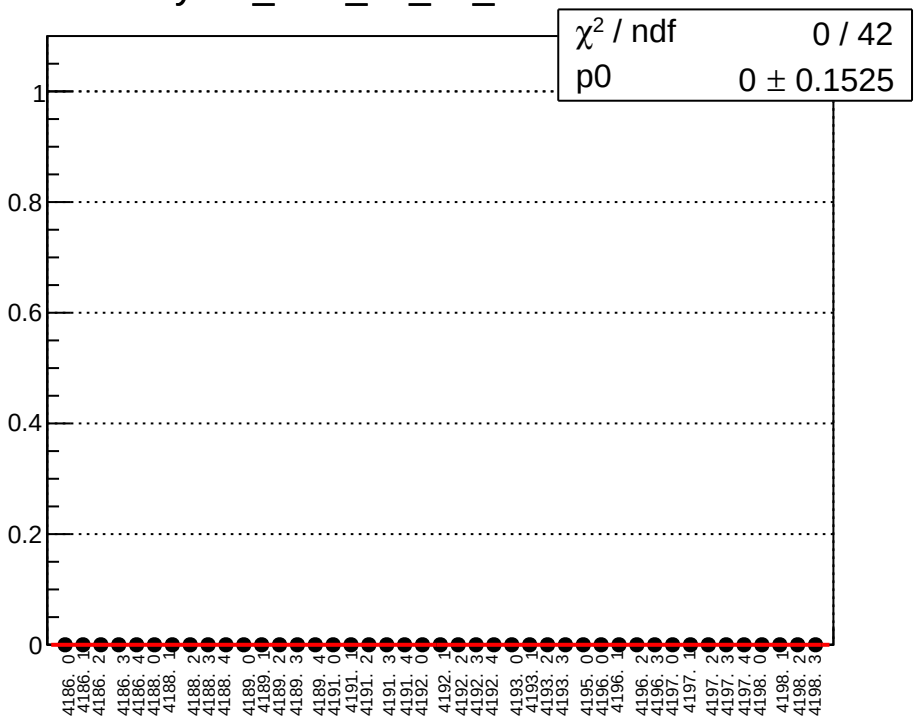
4198. 2
4198. 3


yield_sam_15_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
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4193. 2
4193. 3
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4196. 0
4196. 1
4196. 2
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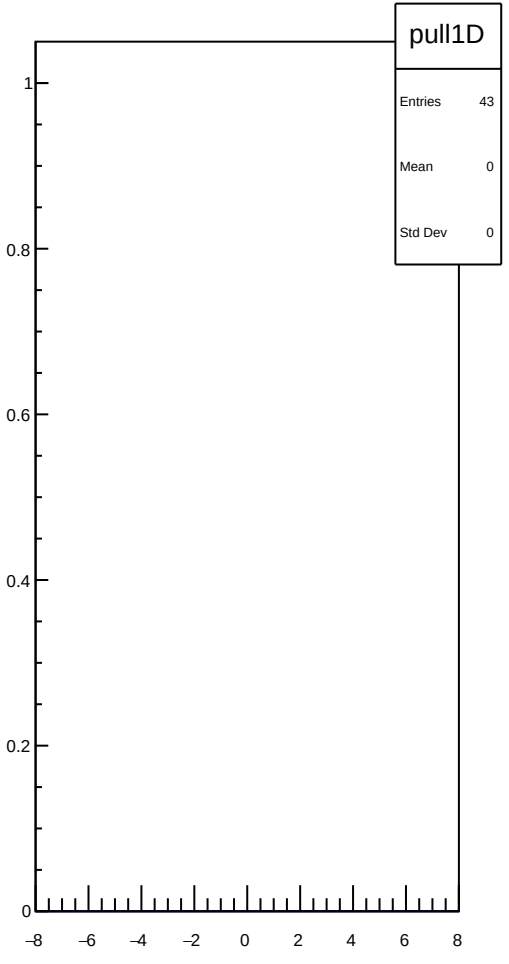
4198. 3


pull1D
Entries 43
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
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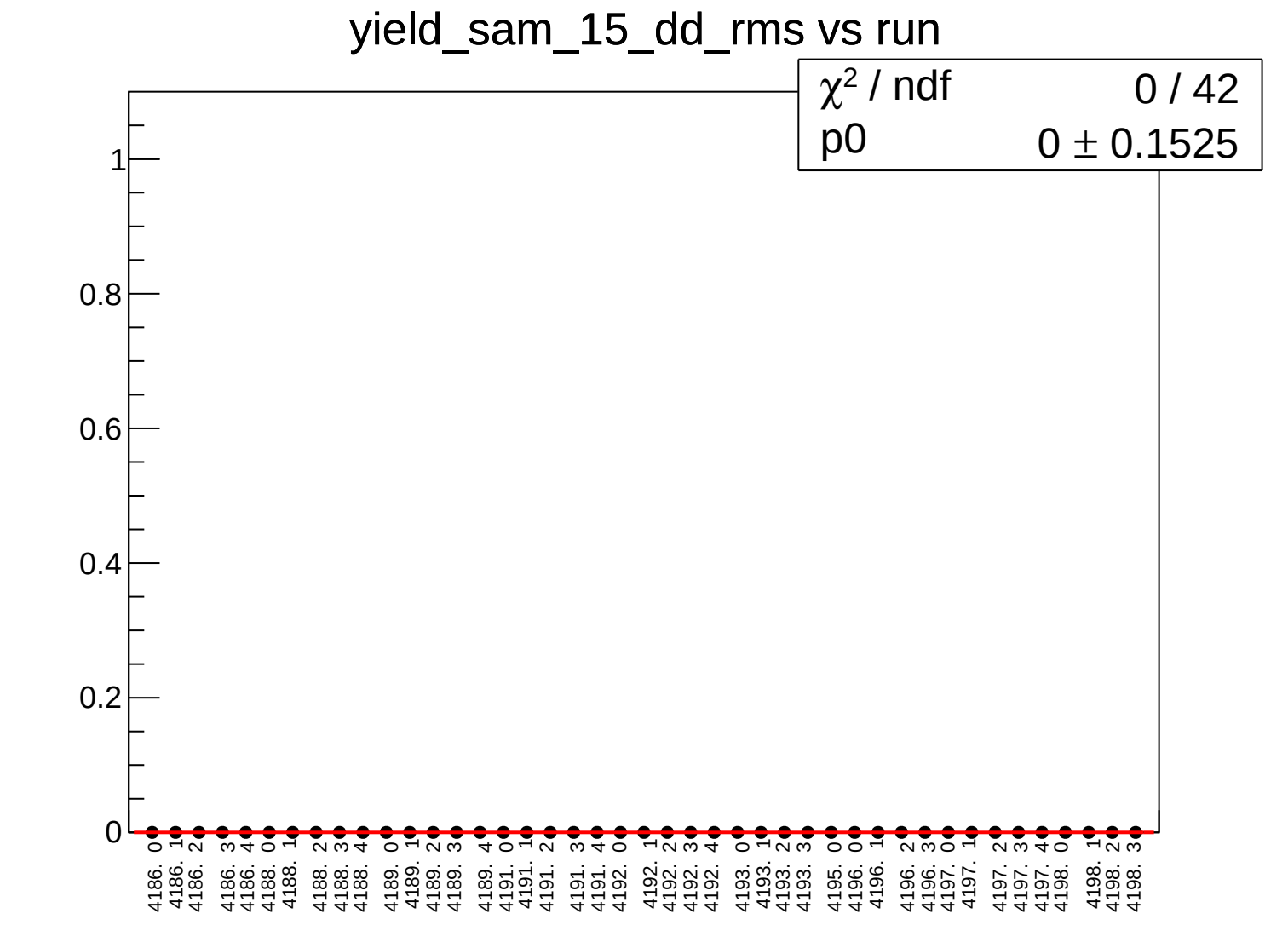
–4
–2
0
2
4
6
8


yield_sam_15_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
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4188. 1
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4188. 3
4188. 4
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4196. 0
4196. 1
4196. 2
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4197. 1
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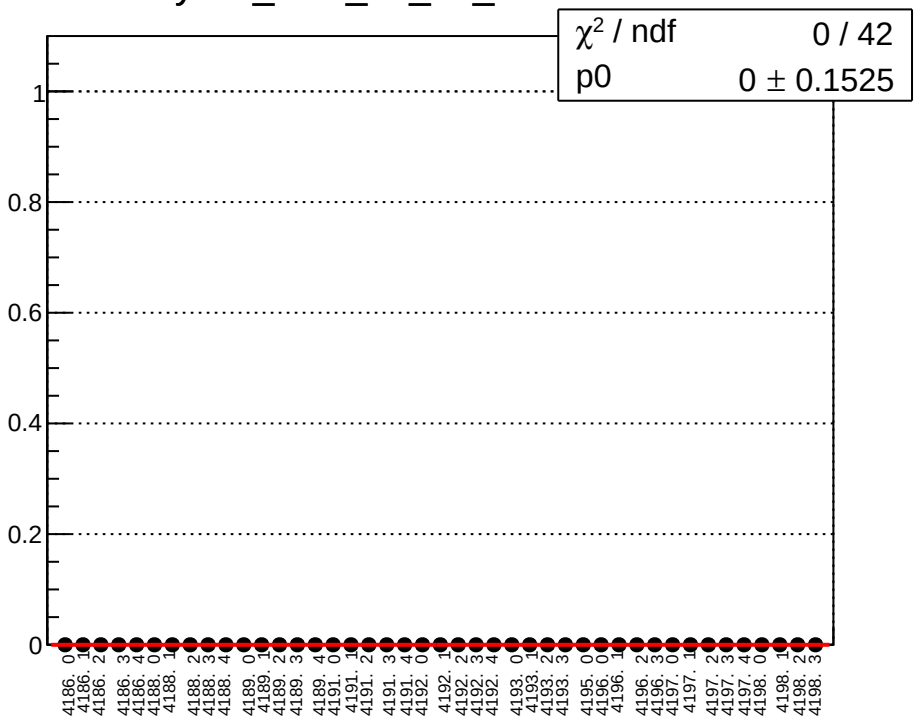
yield_sam_26_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
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4188. 4
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4189. 3
4189. 4
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4191. 2
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4191. 4
4192. 0
4192. 1
4192. 2
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4196. 0
4196. 1
4196. 2
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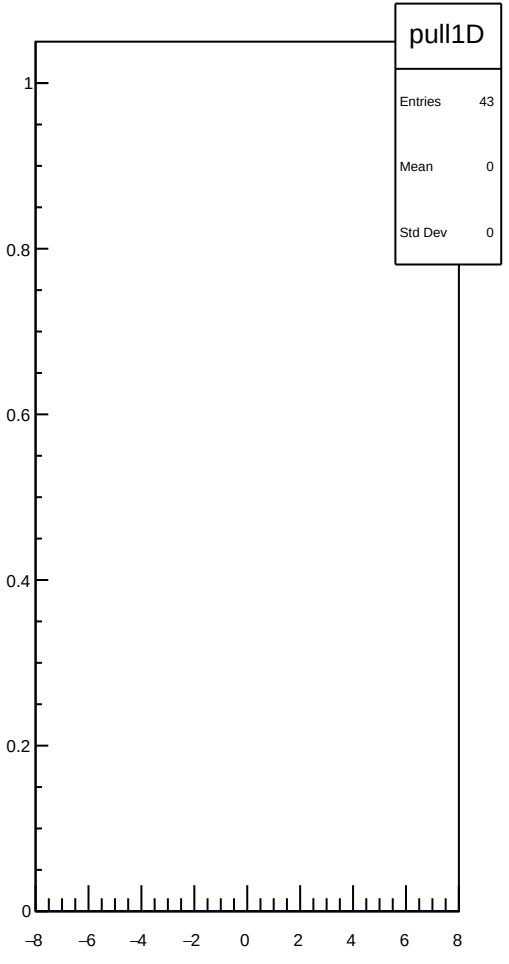
4198. 2
4198. 3


pull1D
Entries 43
Mean 0
Std Dev 0
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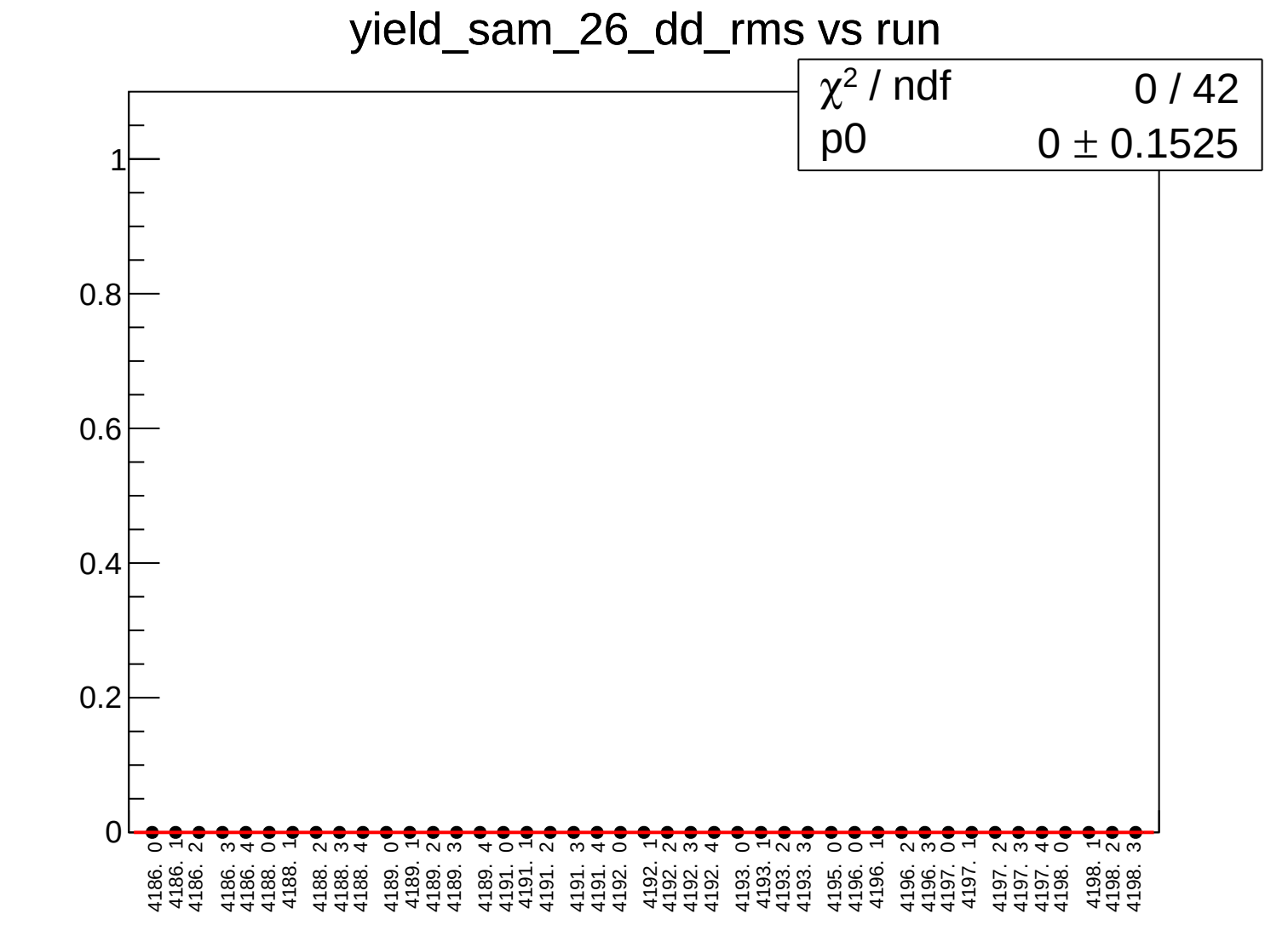
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_sam_26_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
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4186. 4
4188. 0
4188. 1
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4188. 3
4188. 4
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4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
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4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
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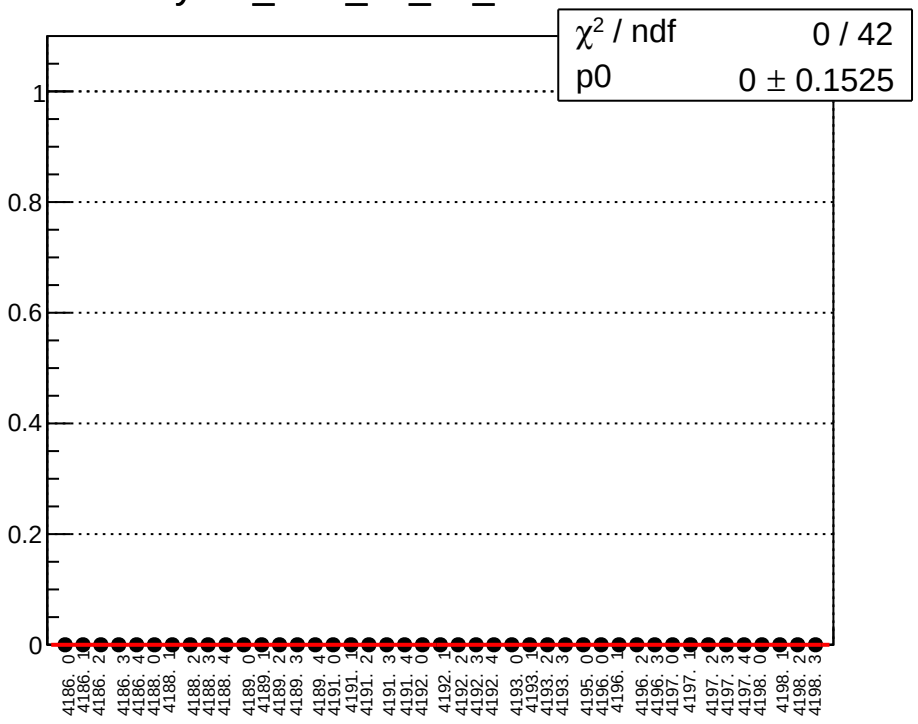
4198. 2
4198. 3


yield_sam_37_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
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4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
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4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
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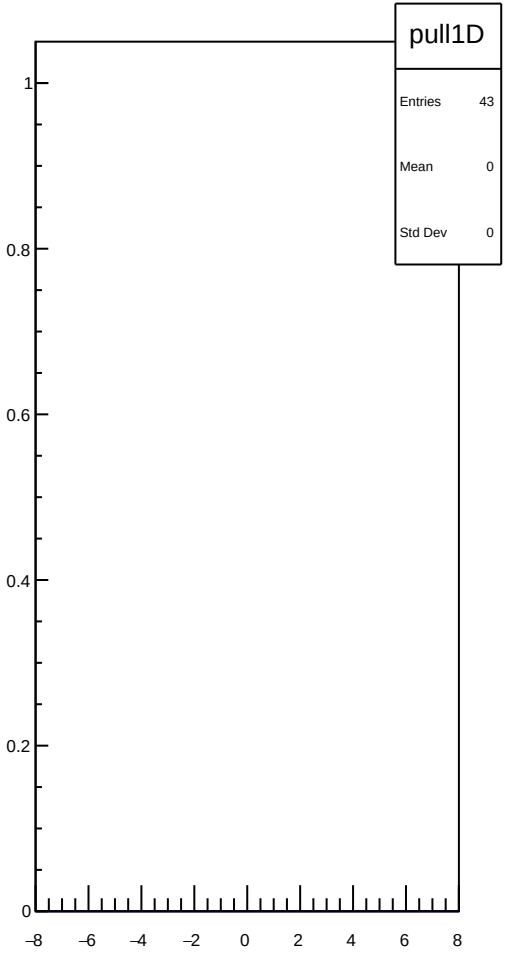
4198. 2
4198. 3


pull1D
Entries 43
Mean 0
Std Dev 0
1
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0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
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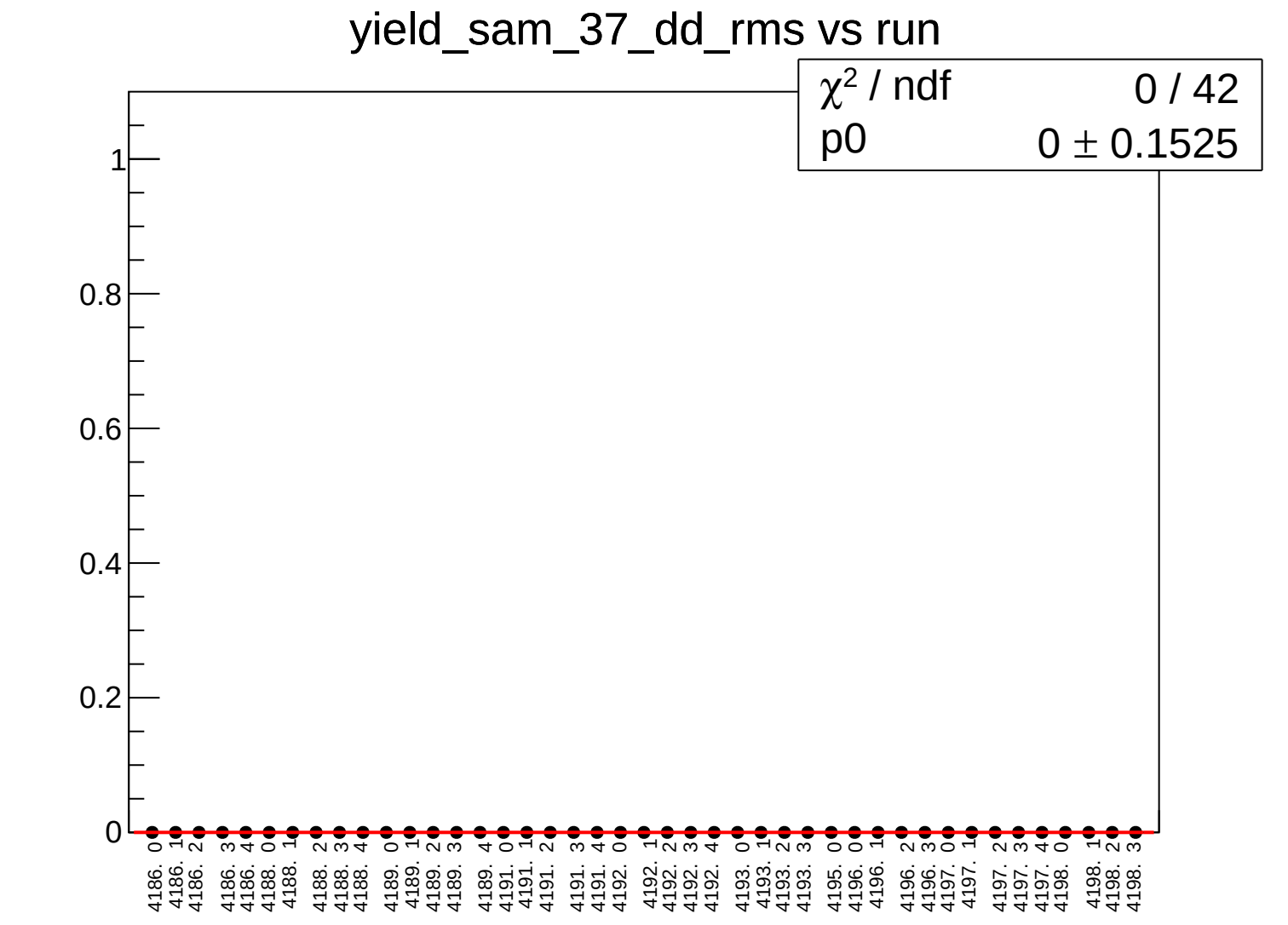
yield_sam_37_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
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4189. 4
4191. 0
4191. 1
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4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
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4196. 0
4196. 1
4196. 2
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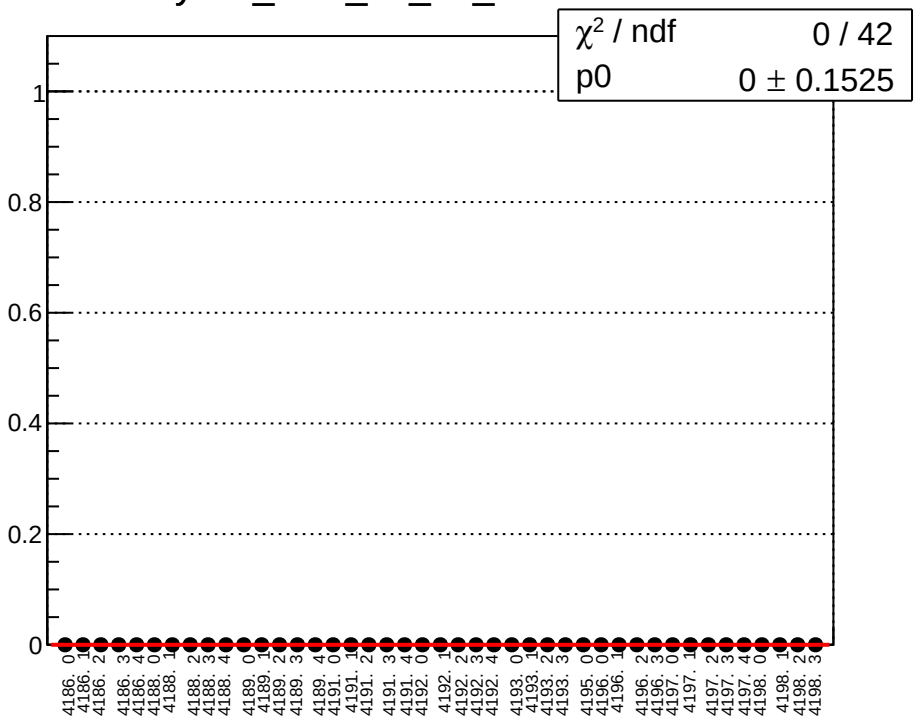
4198. 3


yield_sam_48_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
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4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
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4193. 0
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4196. 0
4196. 1
4196. 2
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4197. 1
4197. 2
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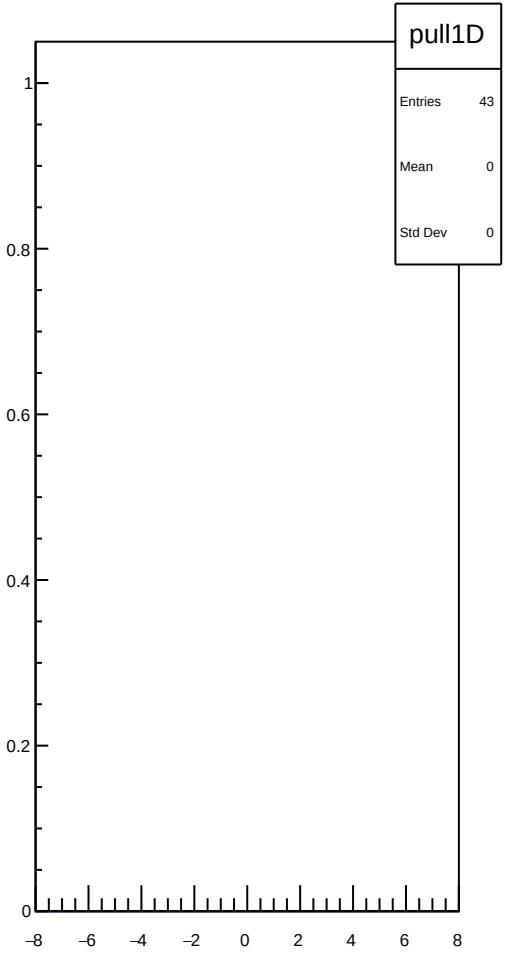
4198. 2
4198. 3


pull1D
Entries 43
Mean 0
Std Dev 0
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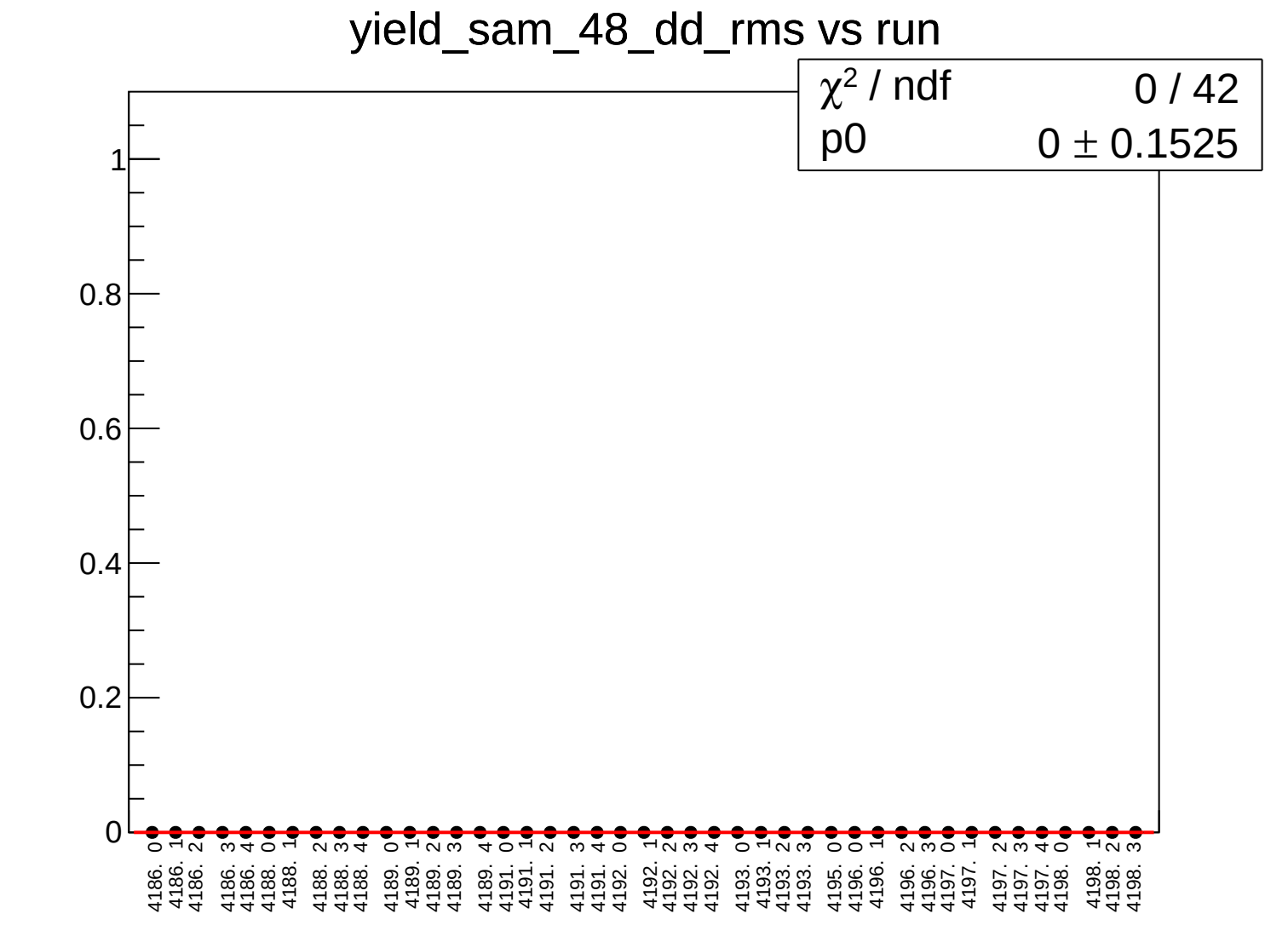
yield_sam_48_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
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0
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4192. 0
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4196. 0
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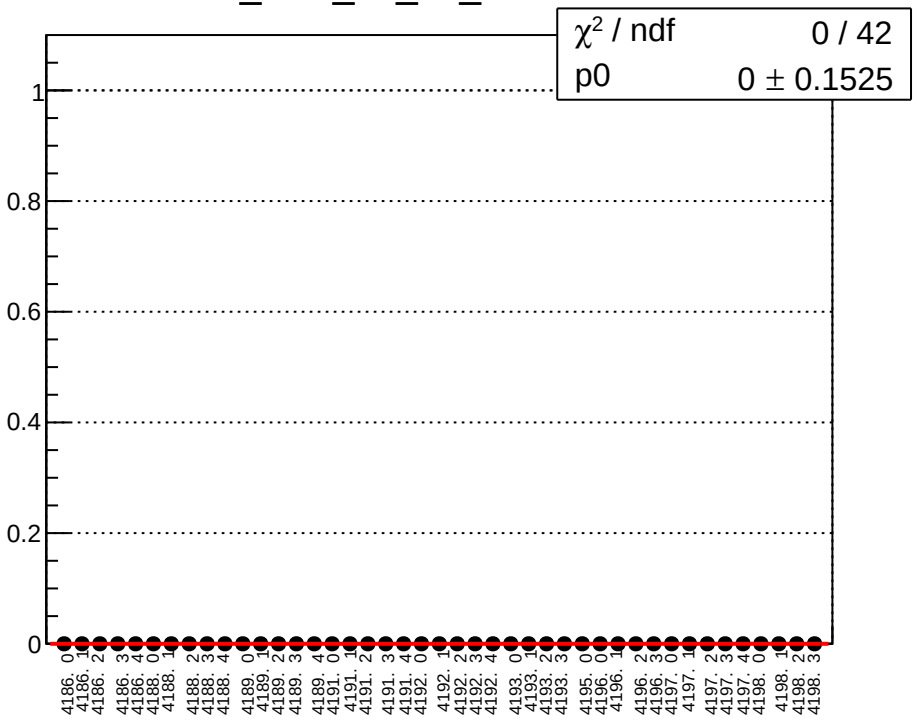
cor_sam_15_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
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4186. 4
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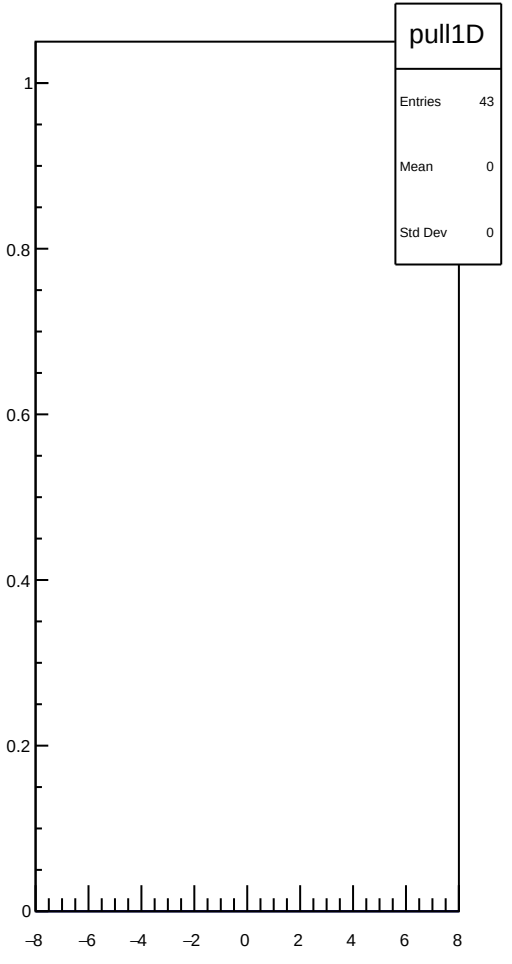
4198. 3


pull1D
Entries 43
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Std Dev 0
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0.4
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–8
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6
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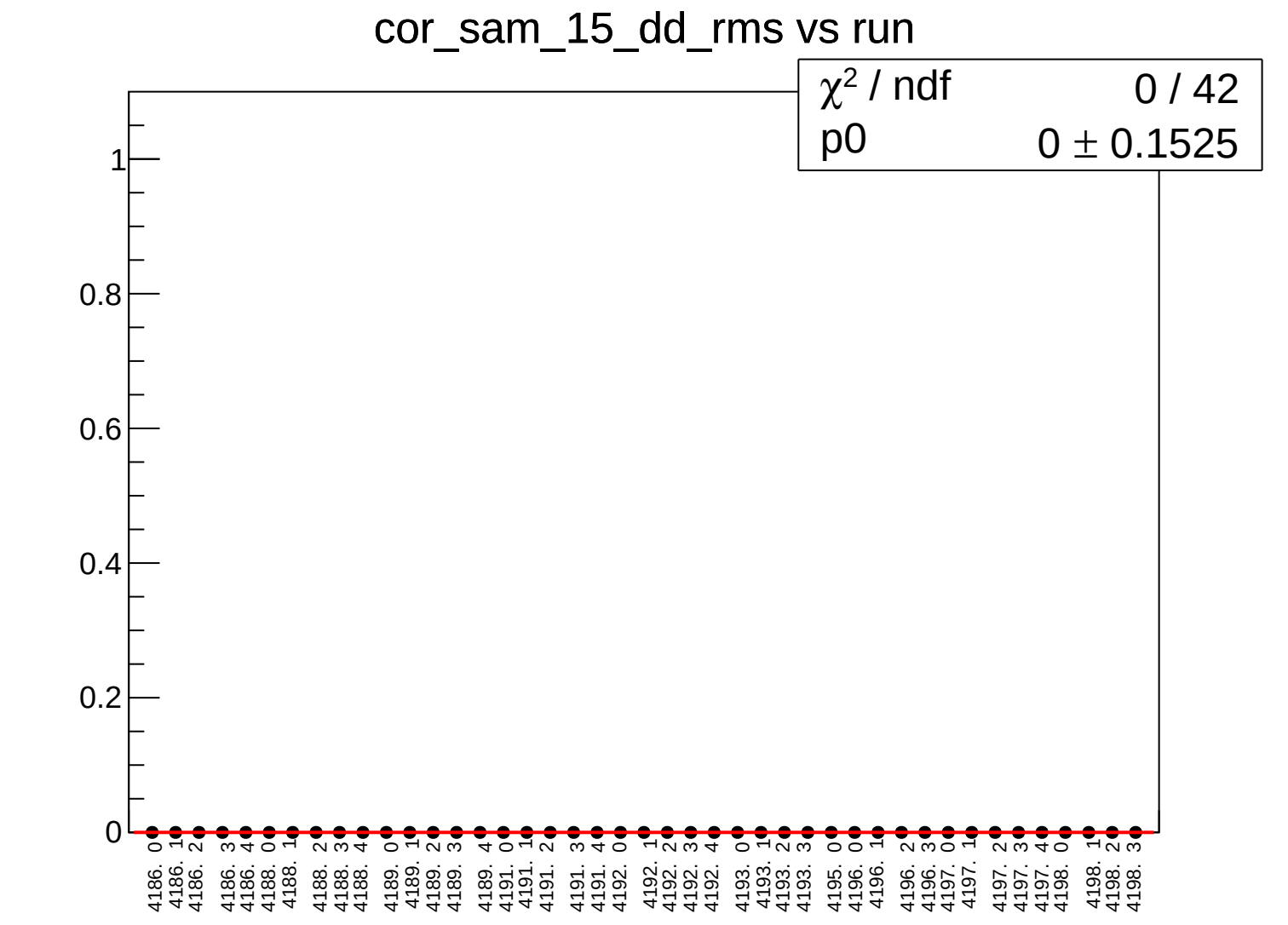
cor_sam_15_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
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0
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4186. 1
4186. 2
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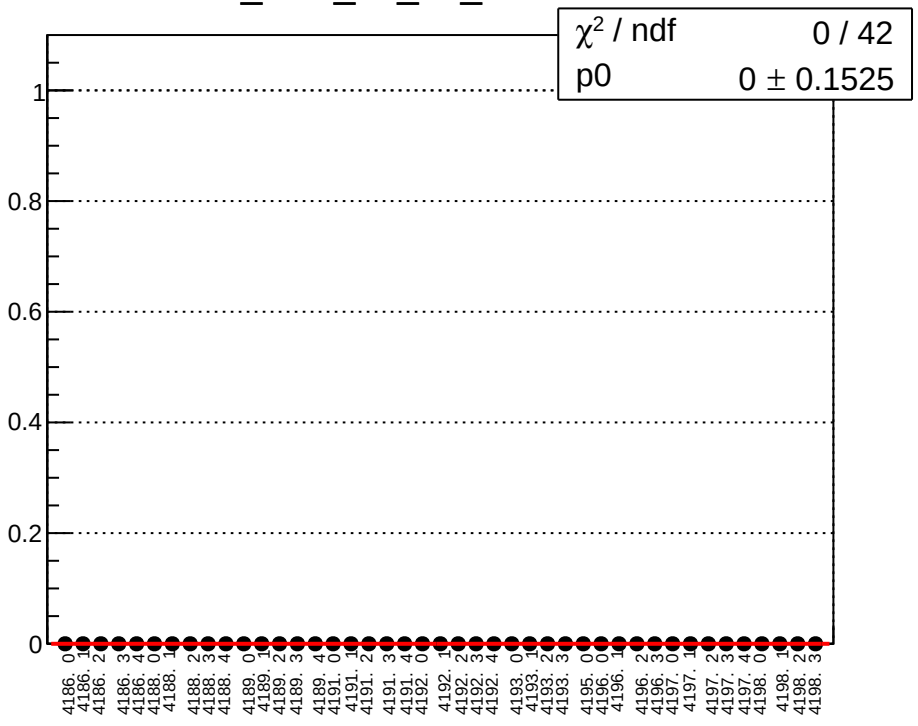
cor_sam_26_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
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0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
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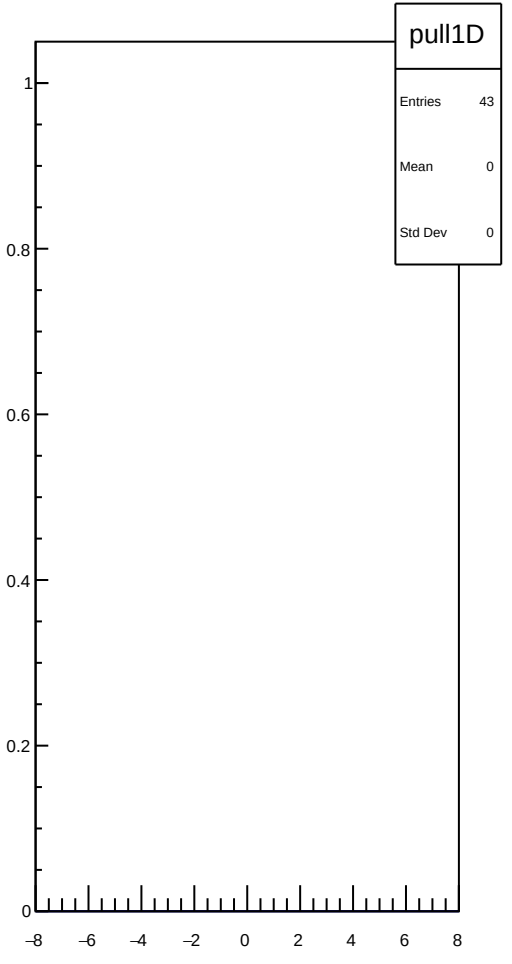
pull1D
Entries 43
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
–8
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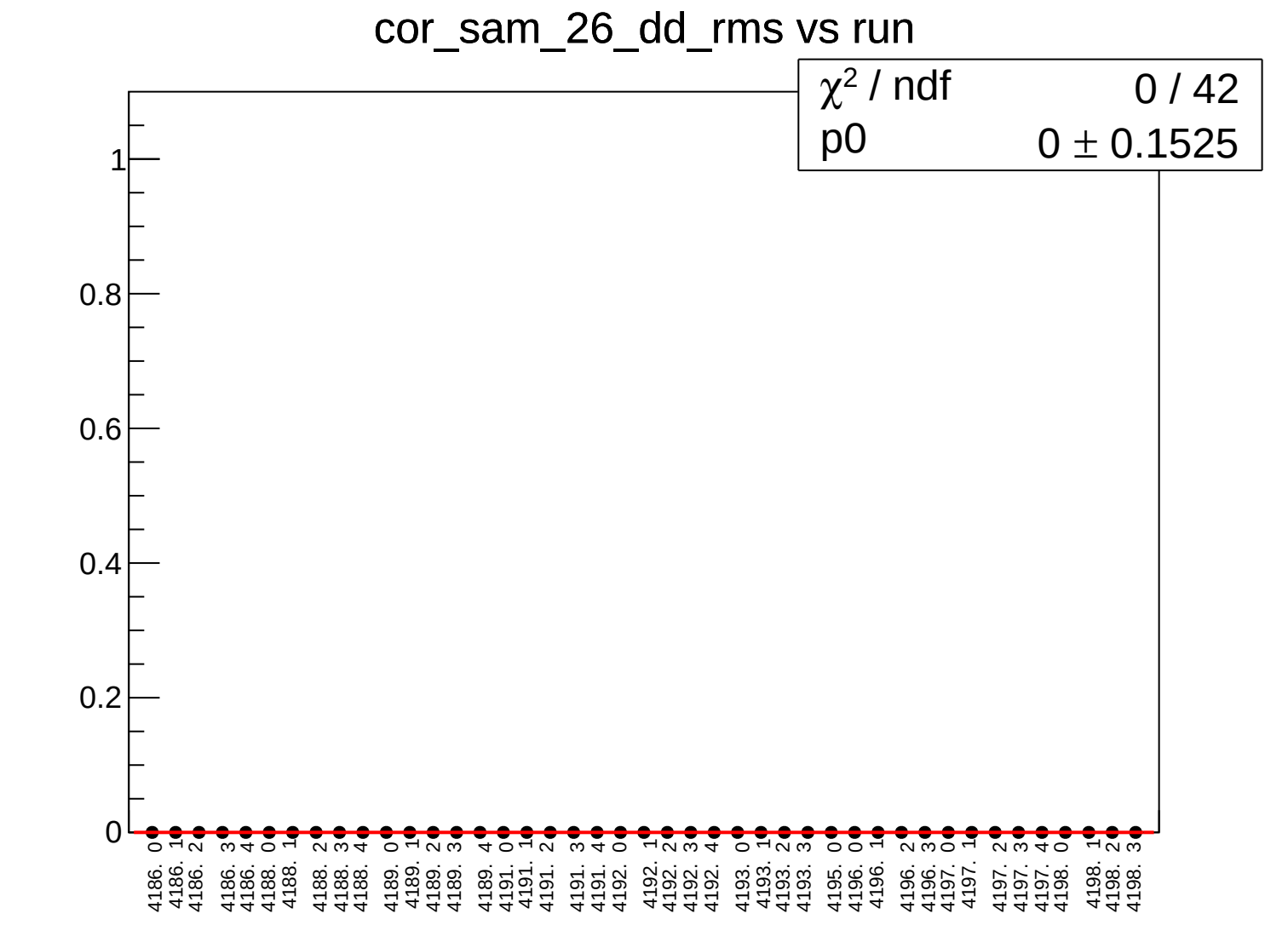
2
4
6
8


cor_sam_26_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
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4196. 2
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4198. 0
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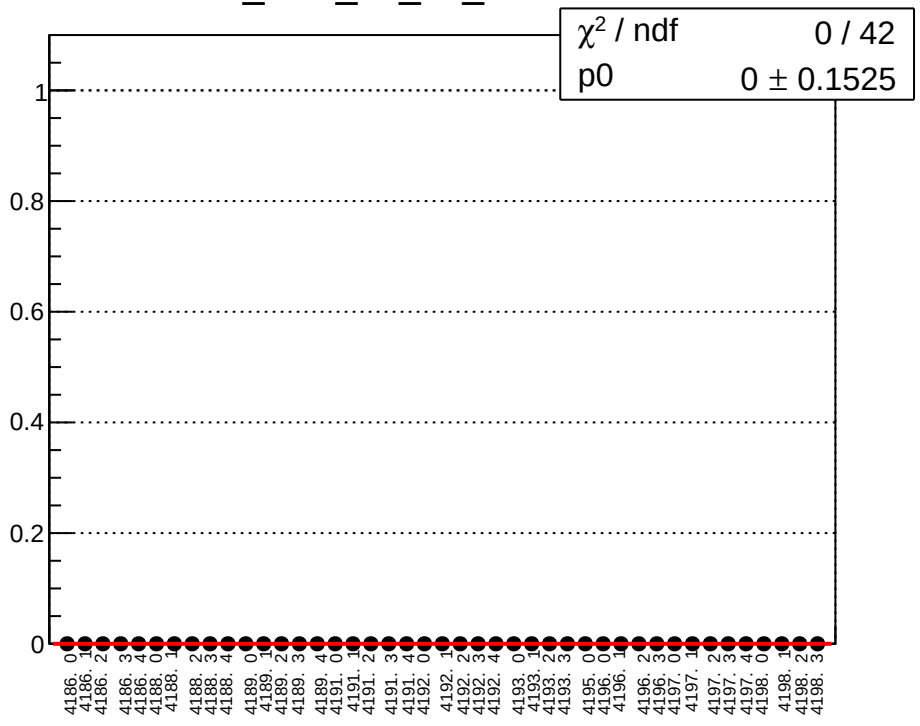
4198. 2
4198. 3


cor_sam_37_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
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0.8
0.6
0.4
0.2
0
4186. 0
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4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
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4189. 1
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4192. 2
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4197. 4
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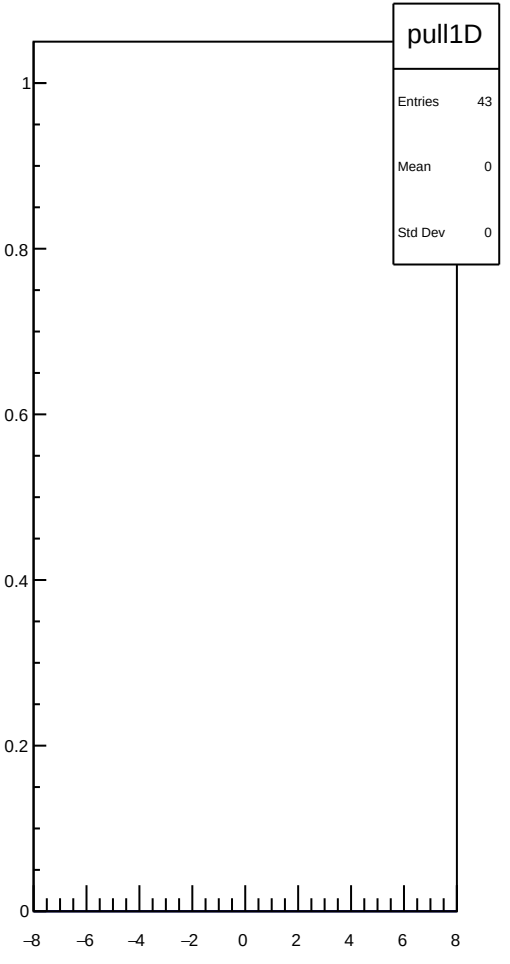
4198. 2
4198. 3


pull1D
Entries 43
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
–8
–6
–4
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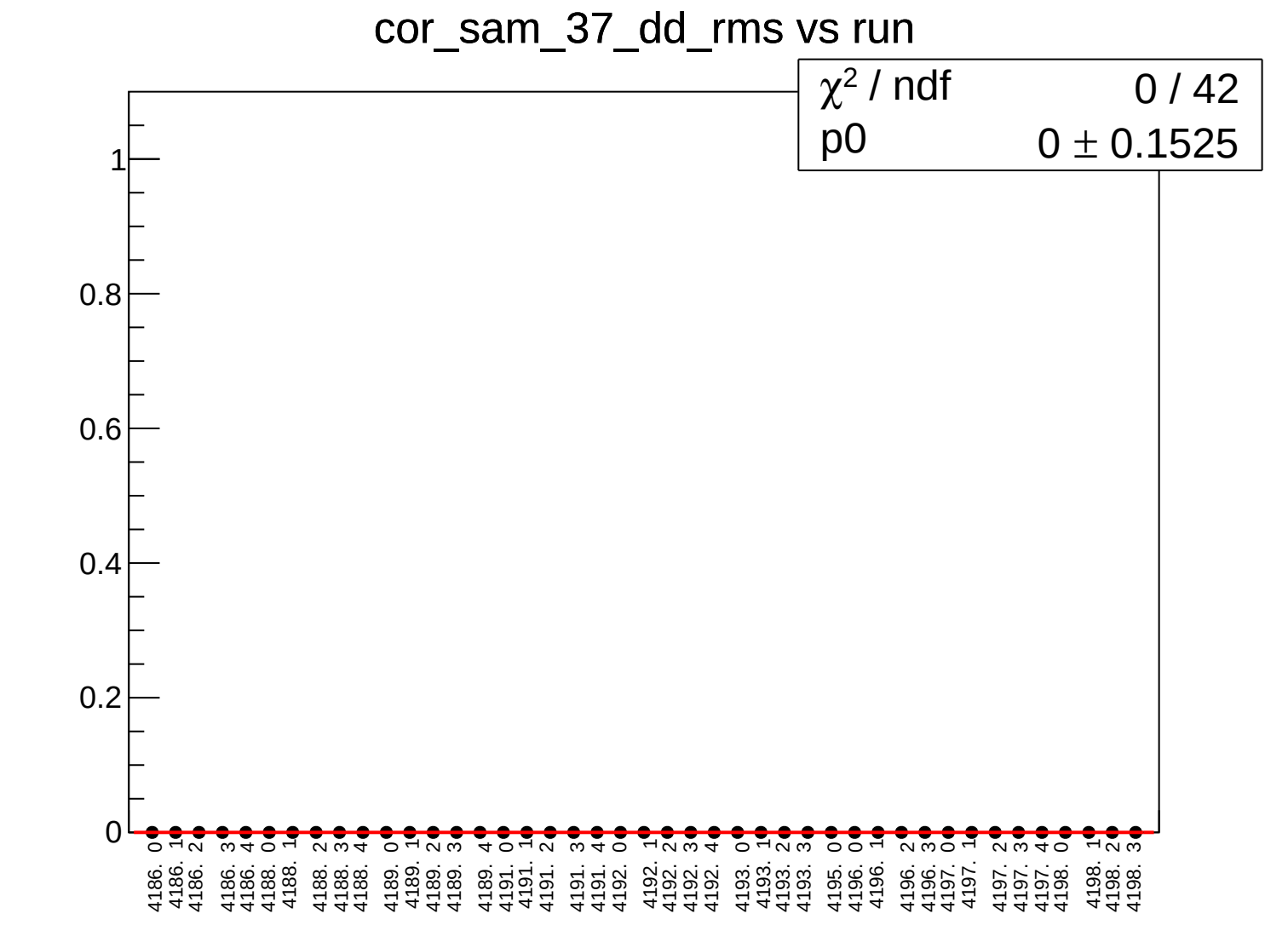
2
4
6
8


cor_sam_37_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
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0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
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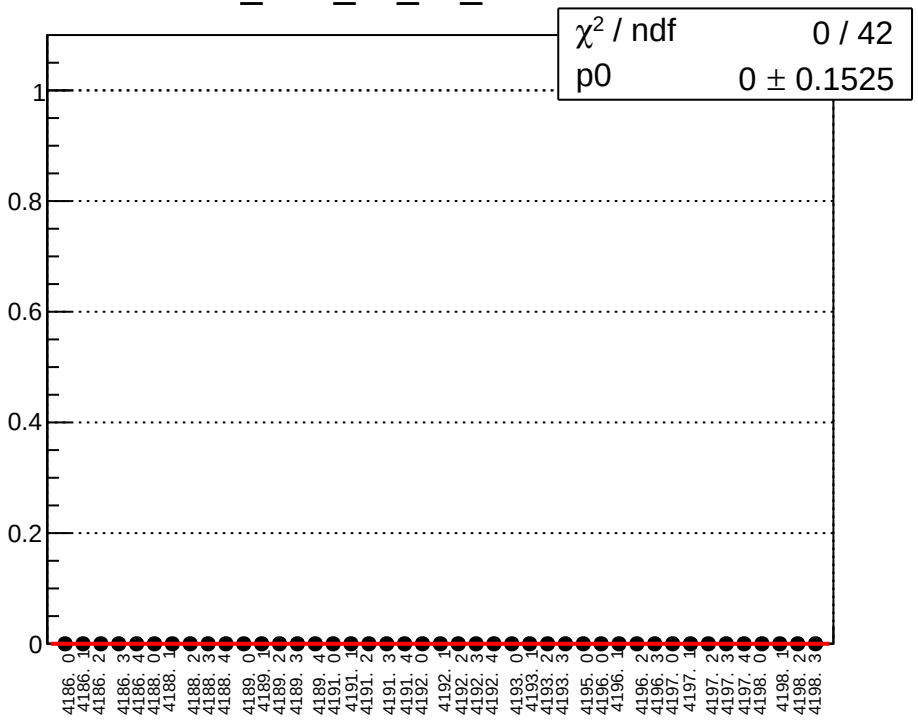
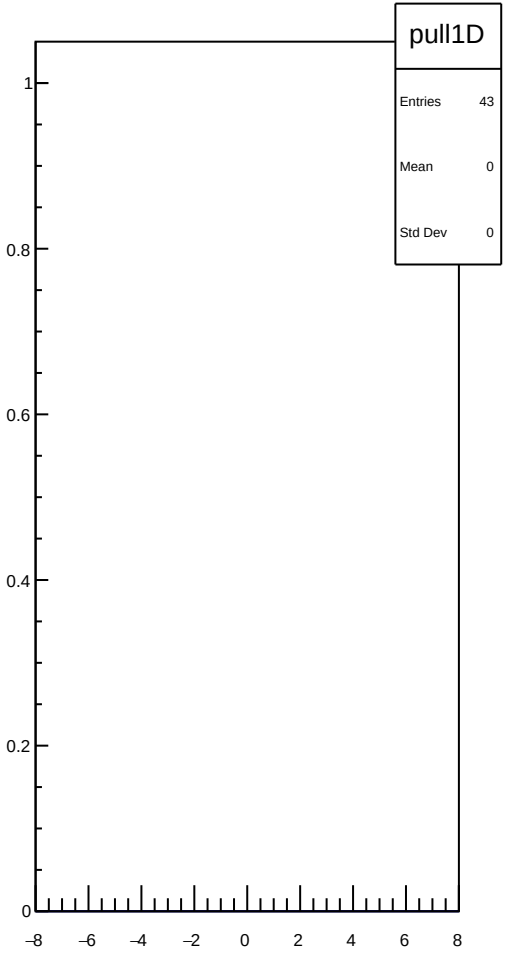
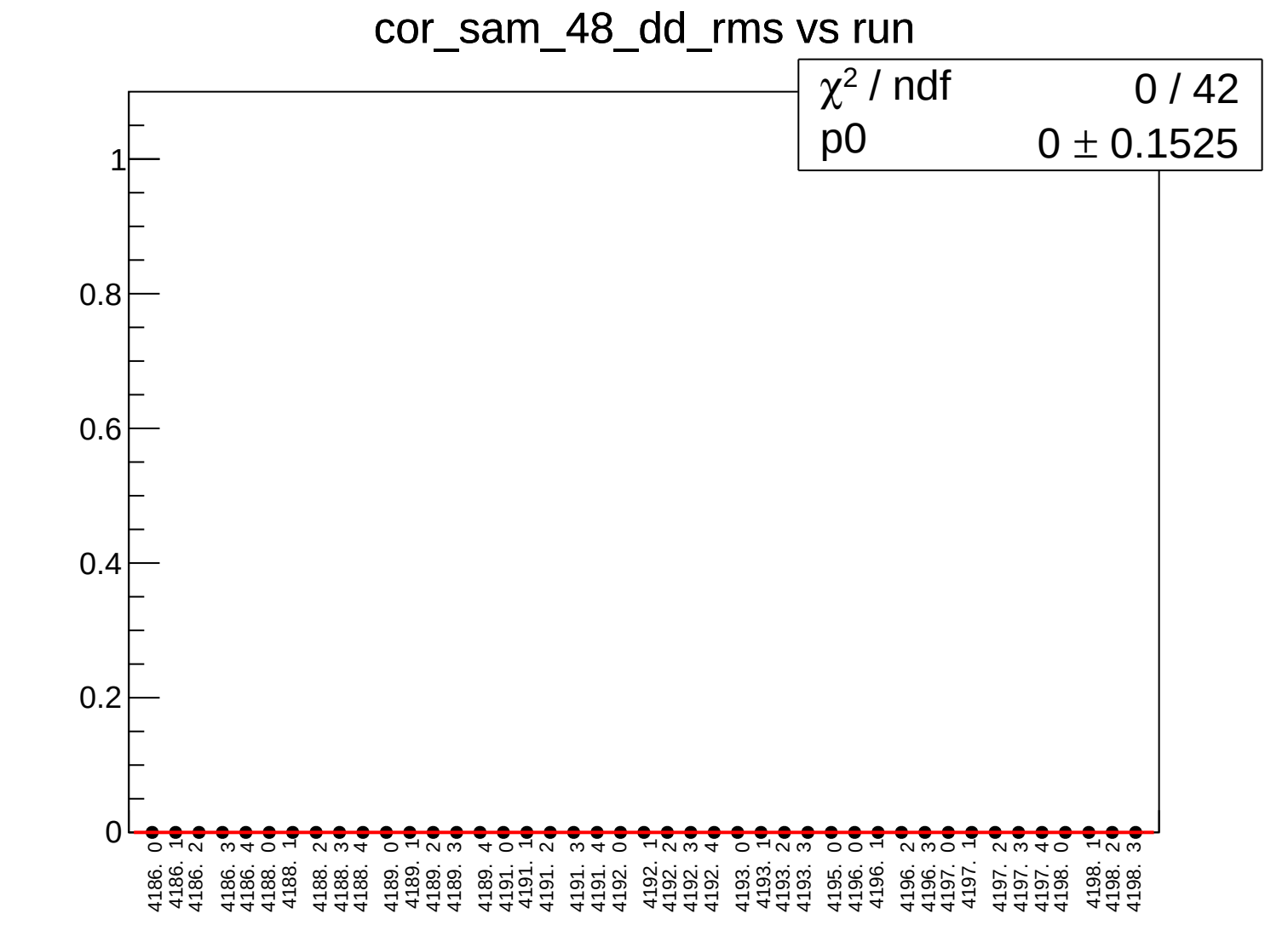
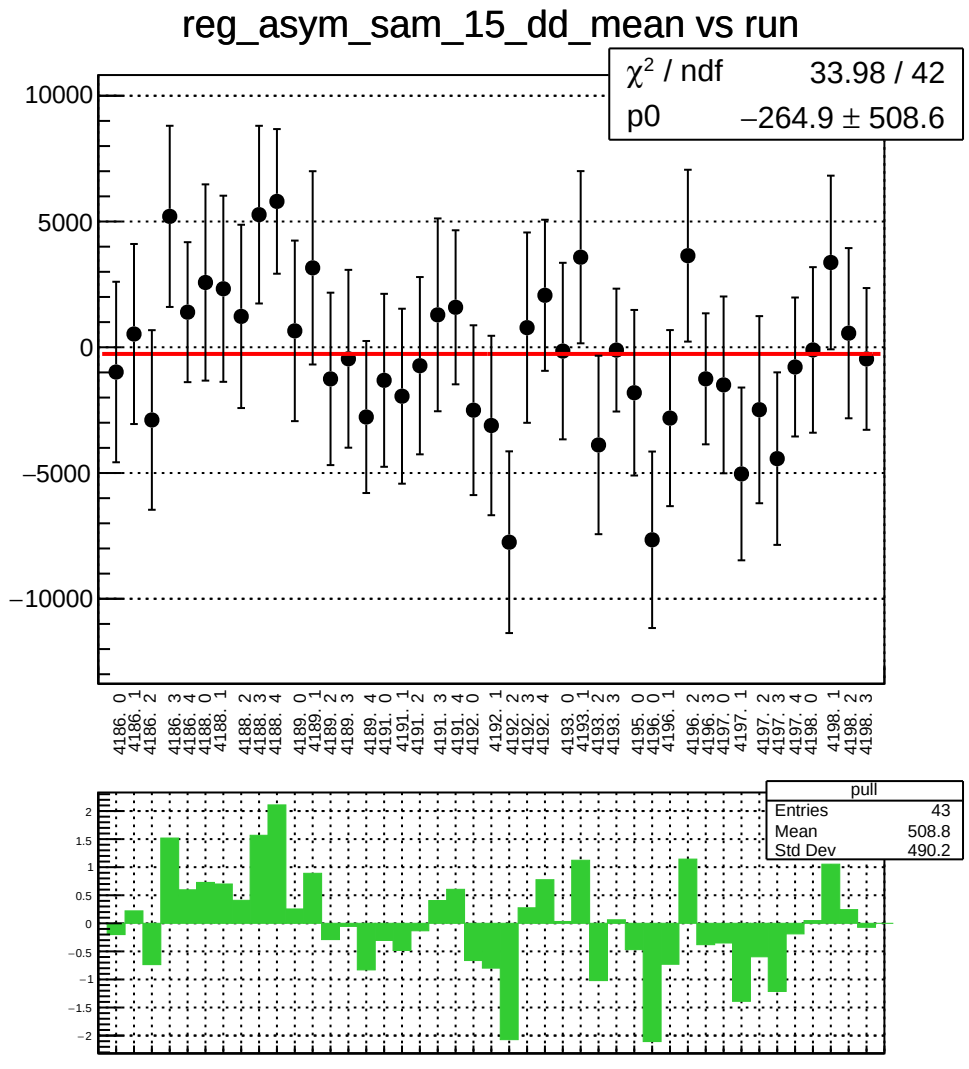
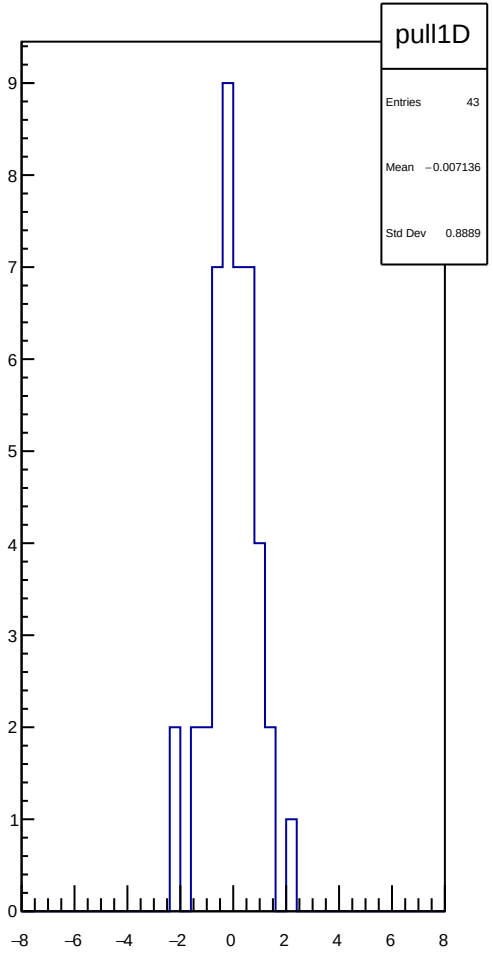
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

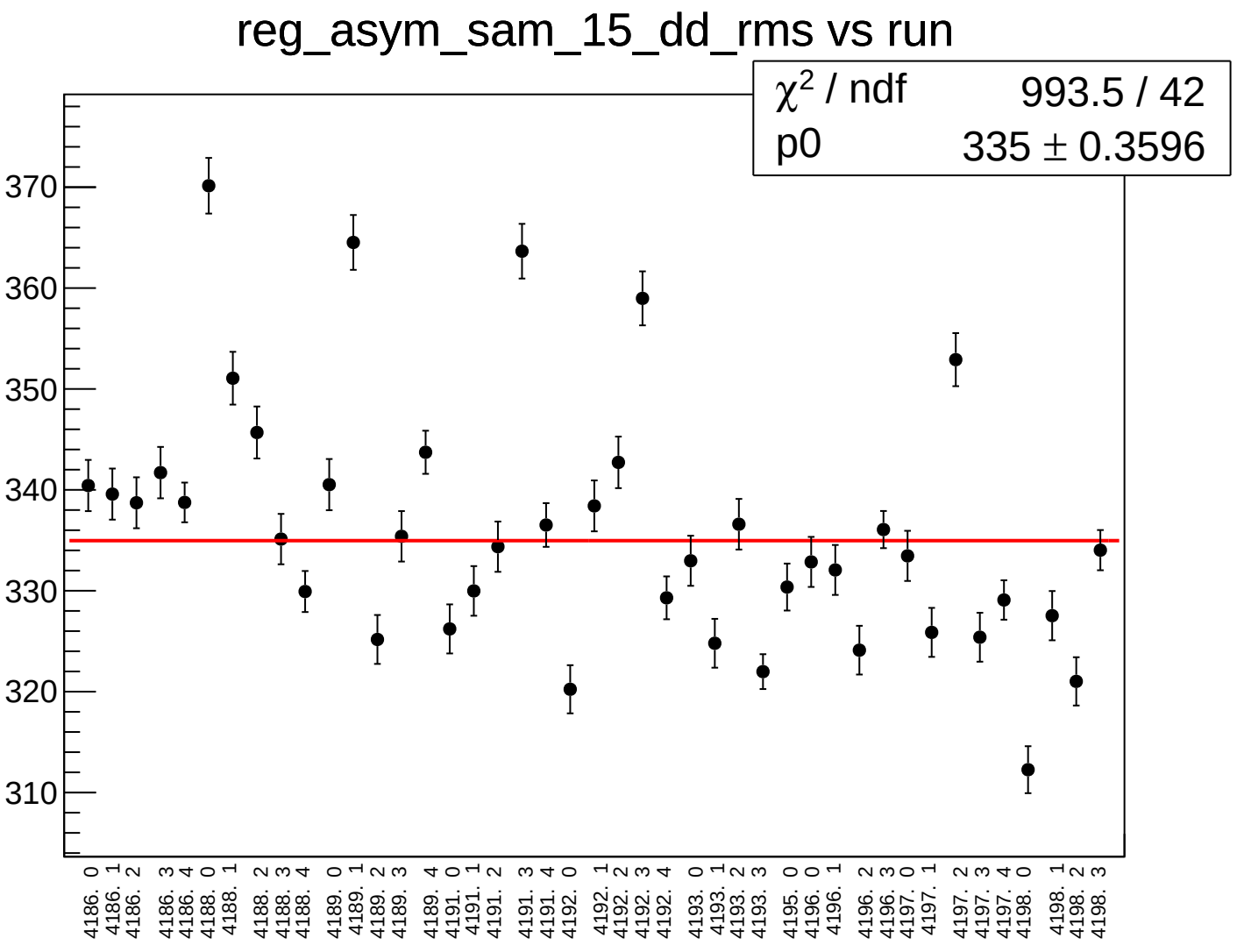

cor_sam_48_dd_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

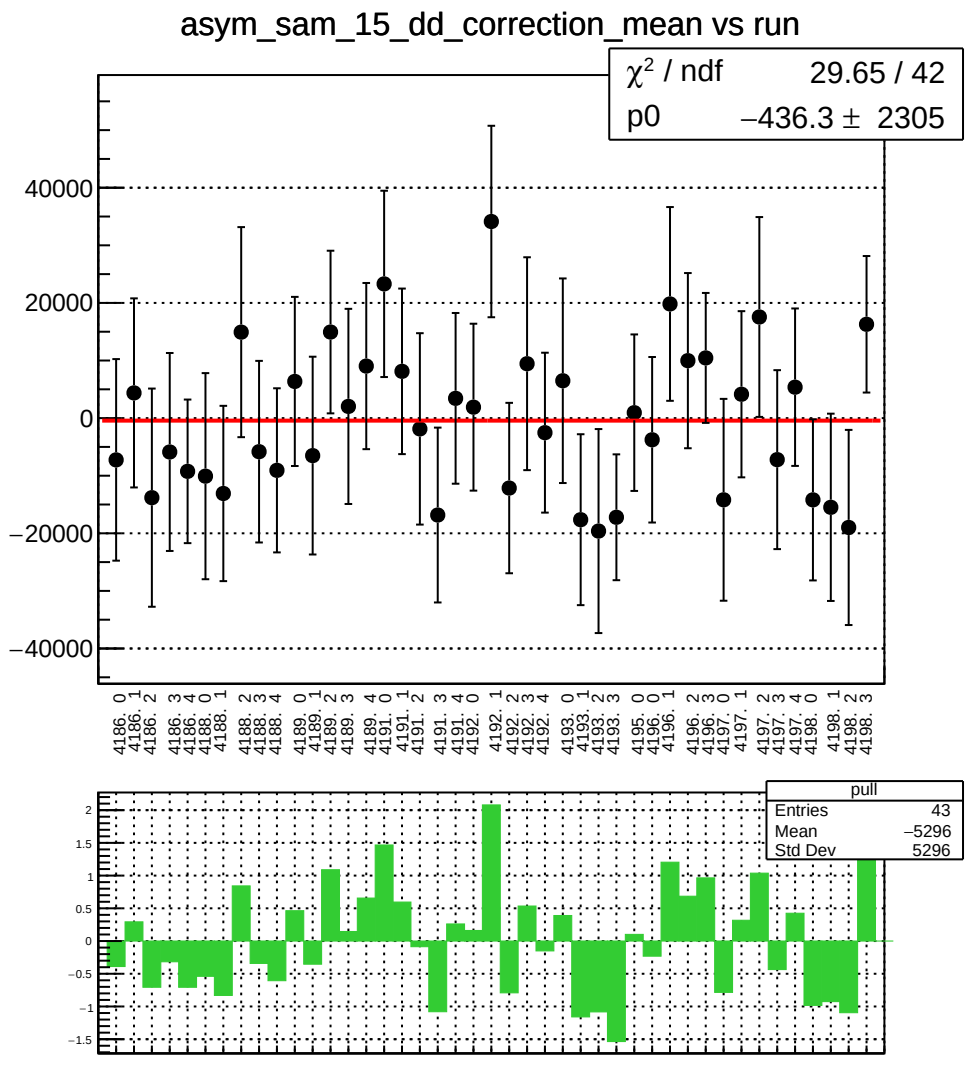

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

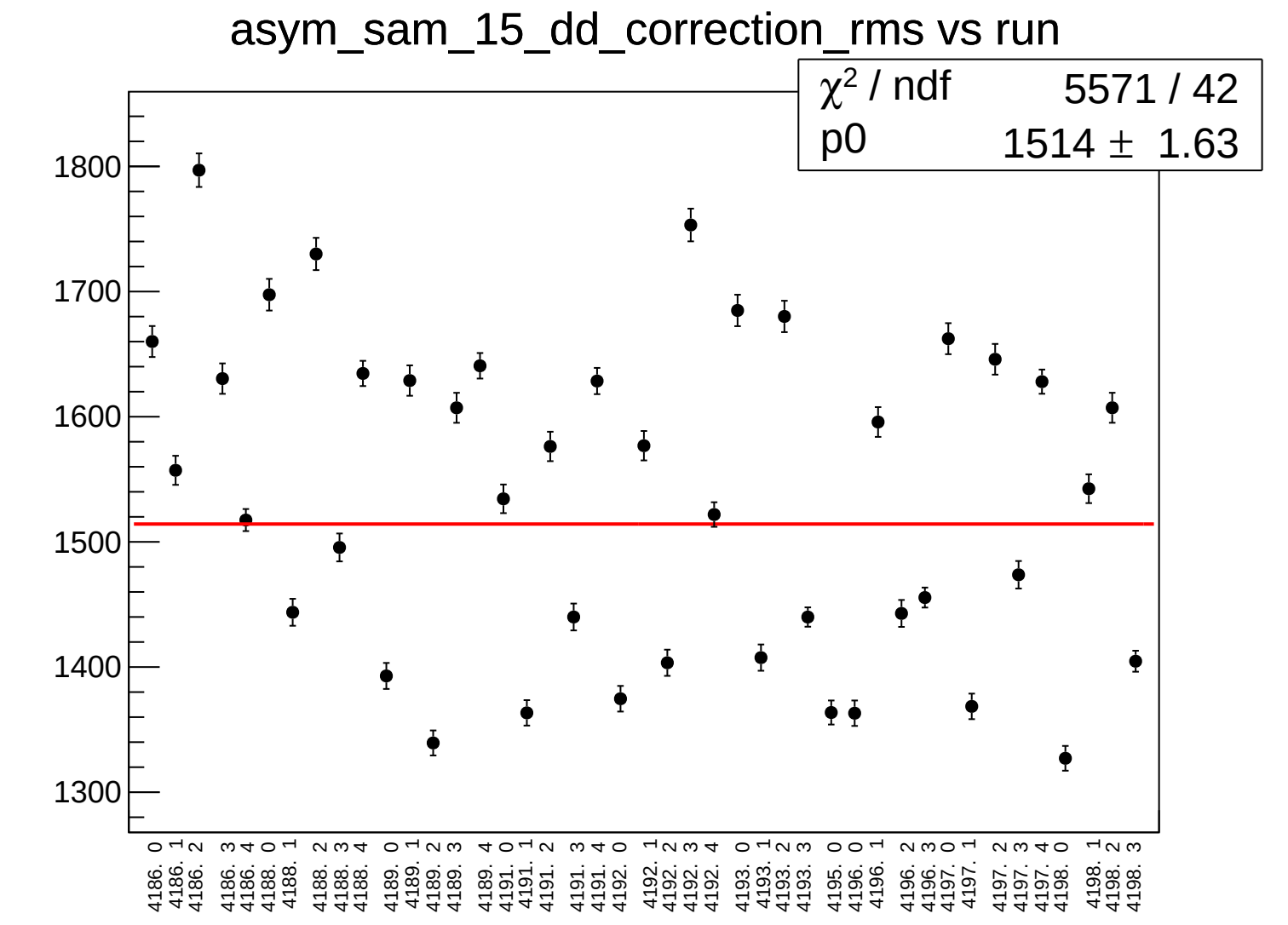

cor_sam_48_dd_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

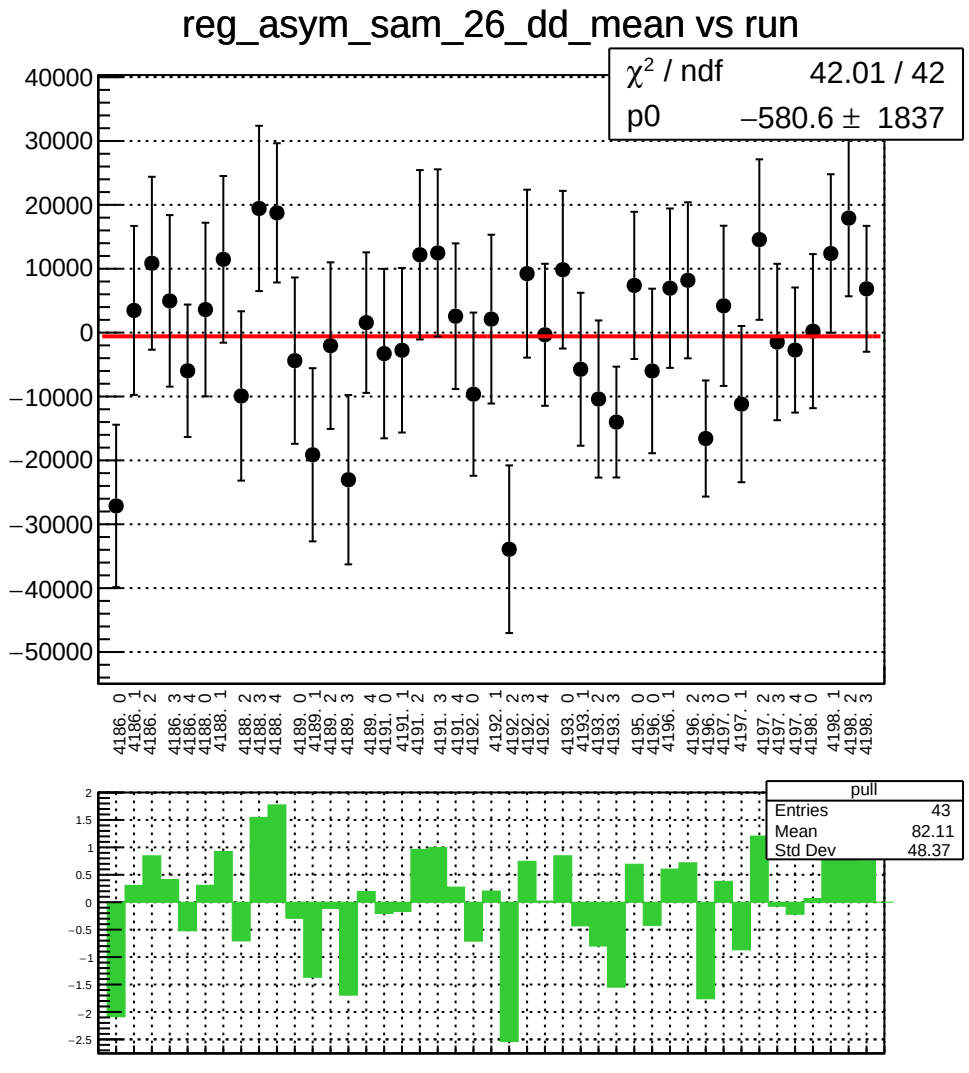

reg_asym_sam_15_dd_mean vs run
χ² / ndf 33.98 / 42
p0 −264.9 ± 508.6
10000
5000
0
−5000
−10000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 508.8
Std Dev 490.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

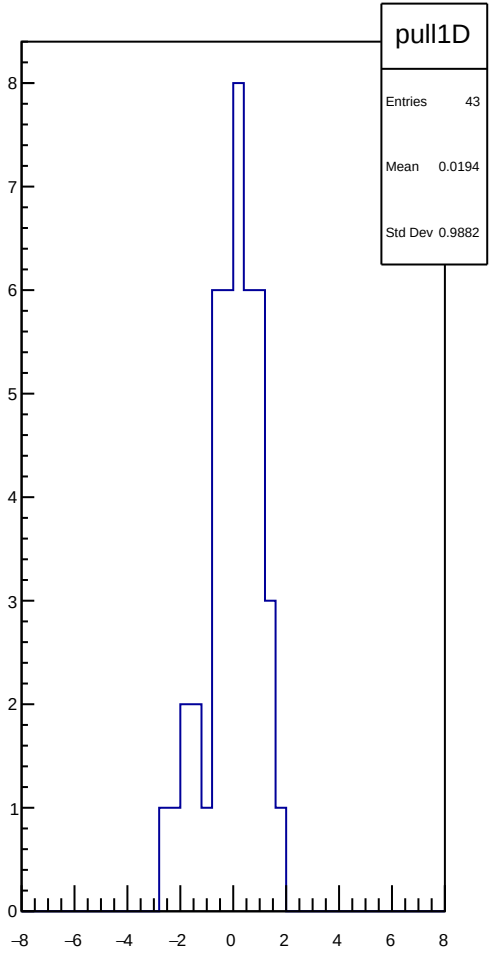

pull1D
Entries 43
Mean −0.007136
Std Dev 0.8889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

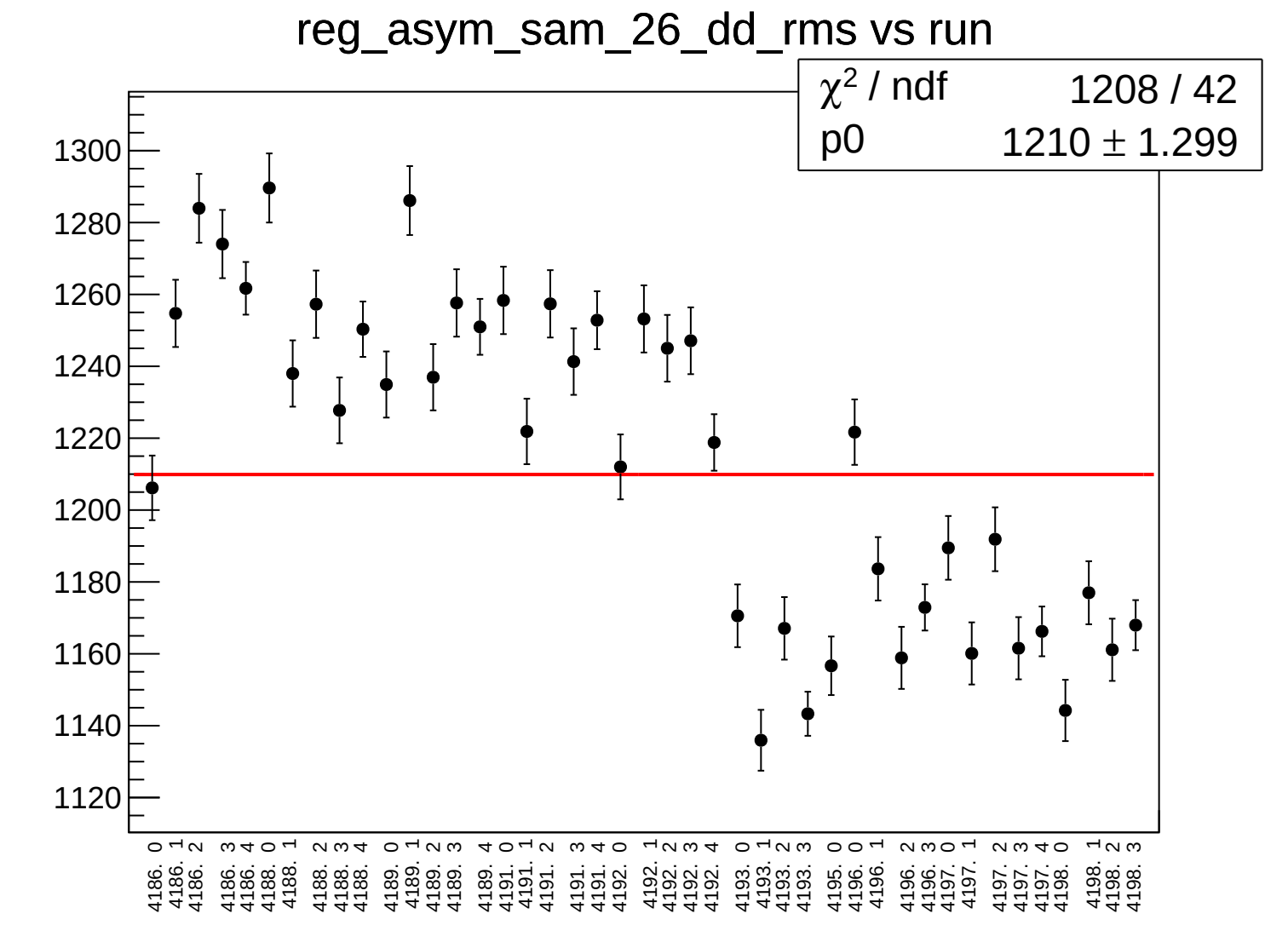

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 993.5 / 42
p0 335 ± 0.3596
370
360
350
340
330
320
310
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

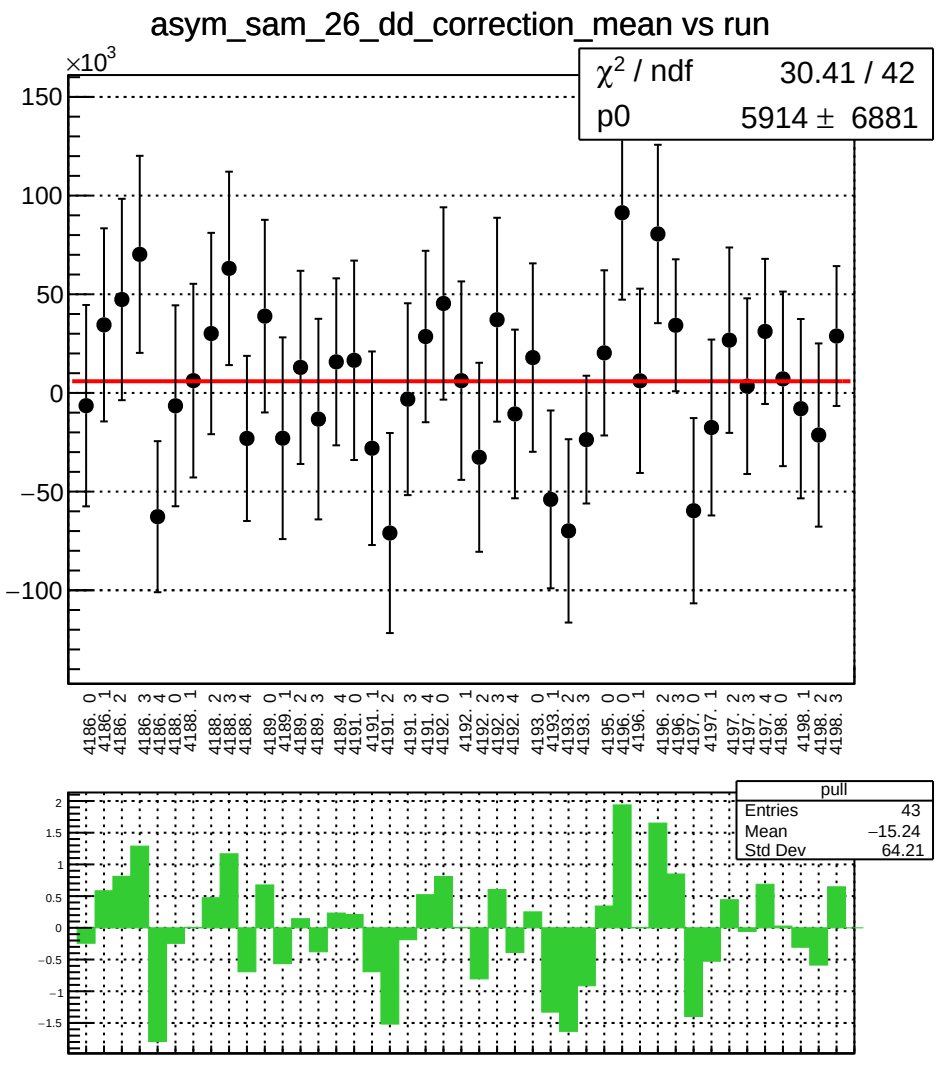

asym_sam_15_dd_correction_mean vs run
χ² / ndf 29.65 / 42
p0 −436.3 ± 2305
40000
20000
0
−20000
−40000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −5296
Std Dev 5296
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −8.387e−05
Std Dev 0.8303
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

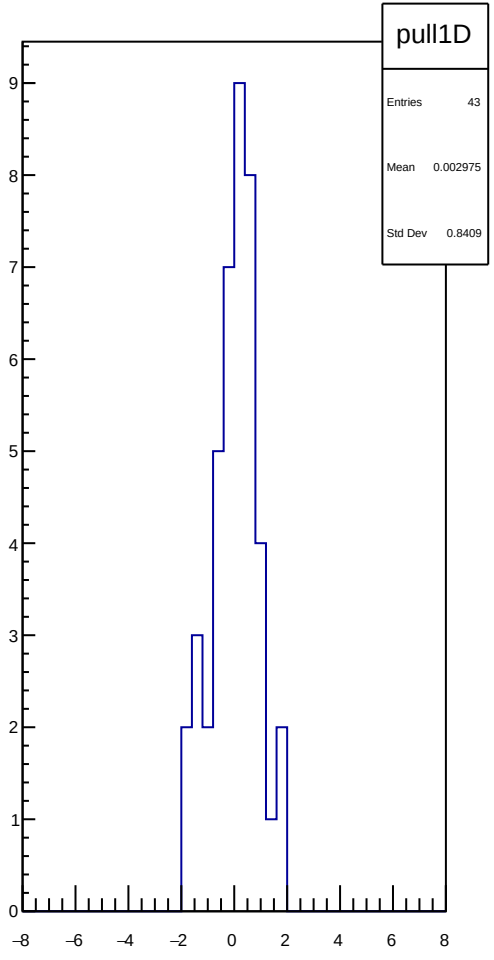

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5571 / 42
p0 1514 ± 1.63
1800
1700
1600
1500
1400
1300
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

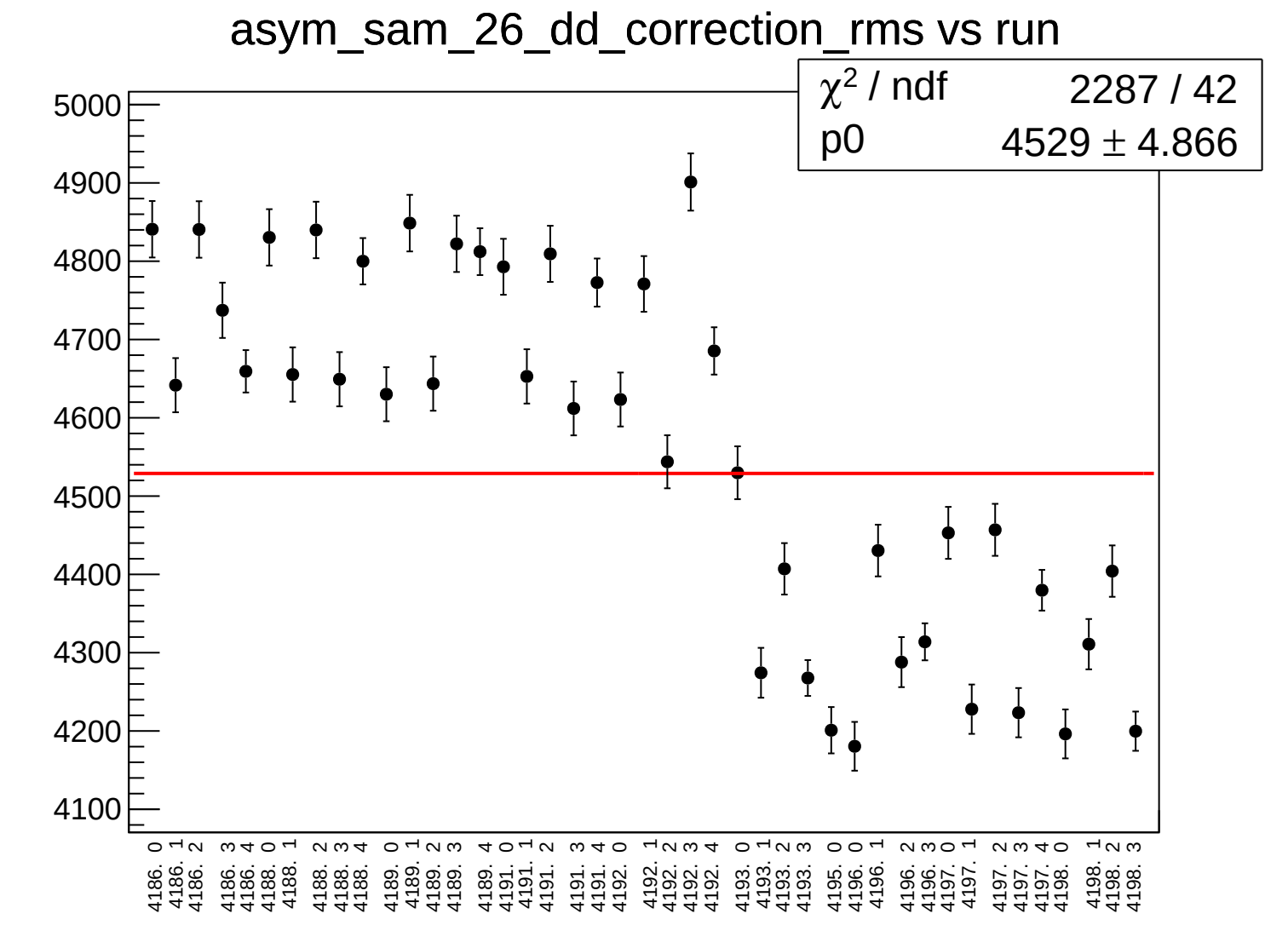

reg_asym_sam_26_dd_mean vs run
χ² / ndf 42.01 / 42
p0 −580.6 ± 1837
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 82.11
Std Dev 48.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

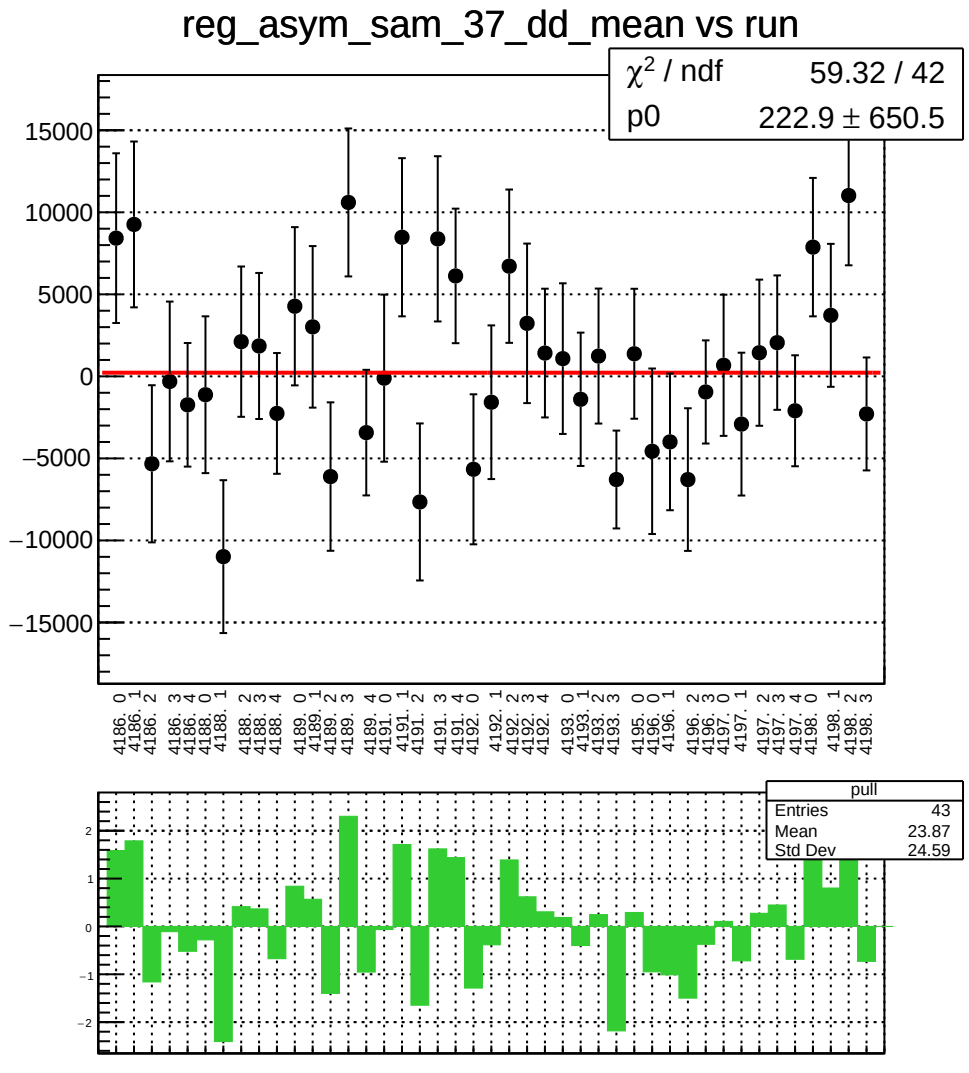

pull1D
Entries 43
Mean 0.0194
Std Dev 0.9882
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

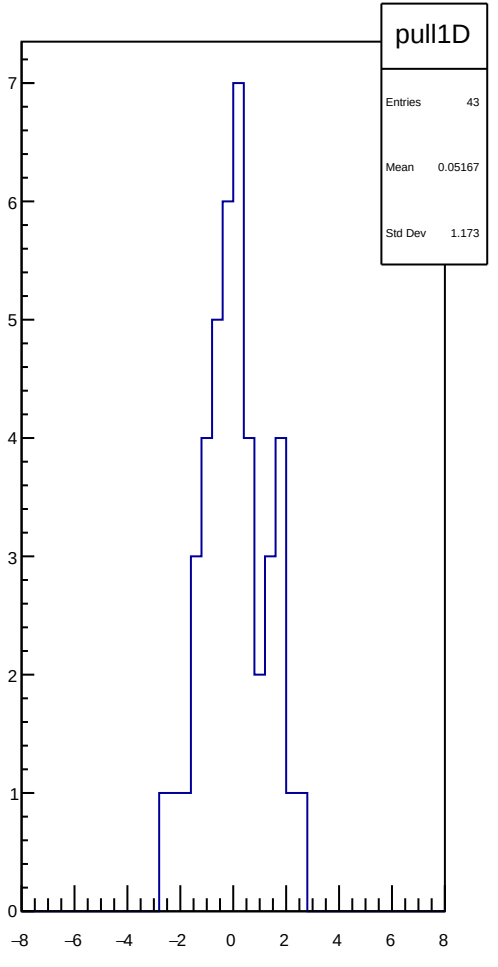

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1208 / 42
p0 1210 ± 1.299
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

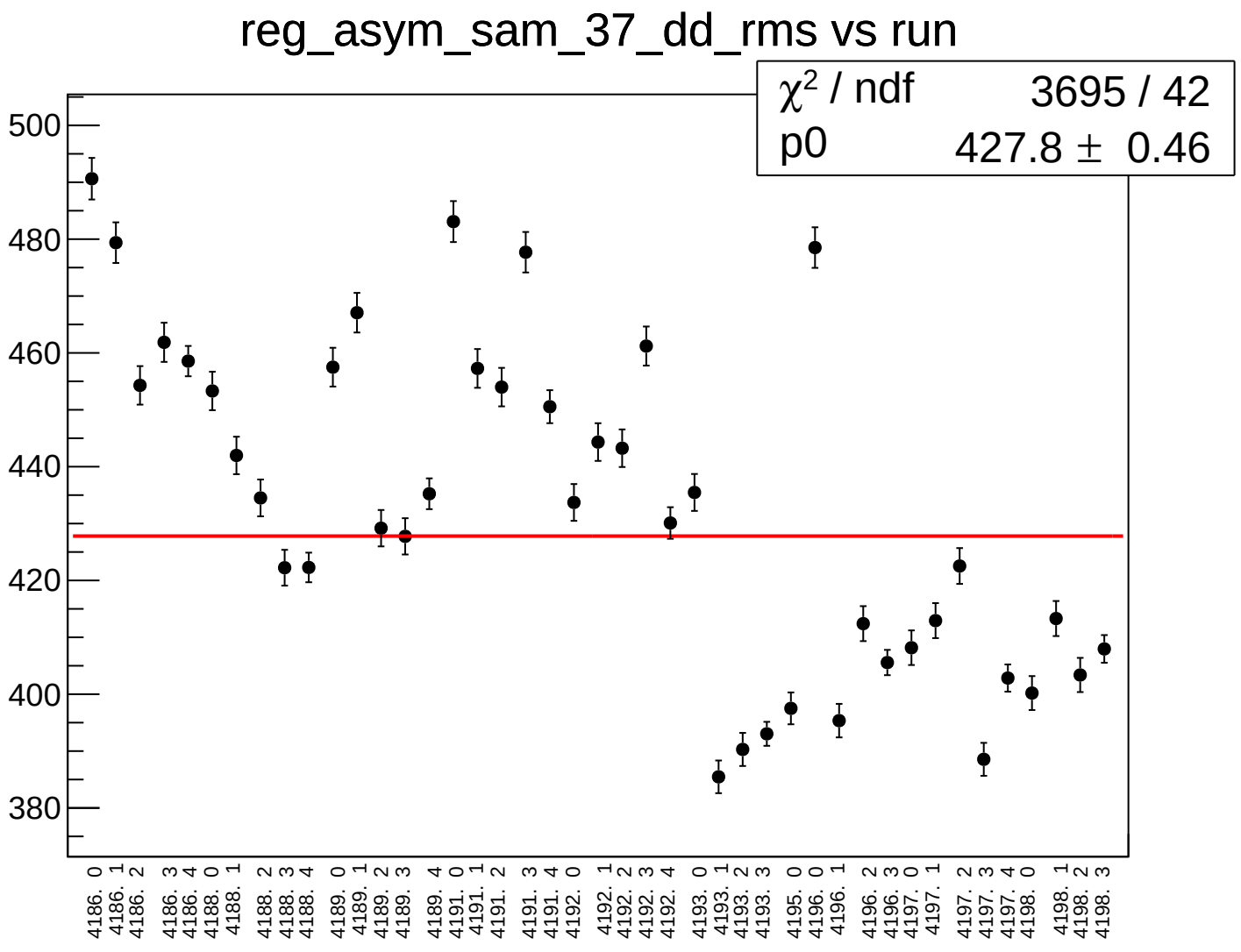

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 30.41 / 42
p0 5914 ± 6881
150
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −15.24
Std Dev 64.21
2
1.5
1
0.5
0
−0.5
−1
−1.5

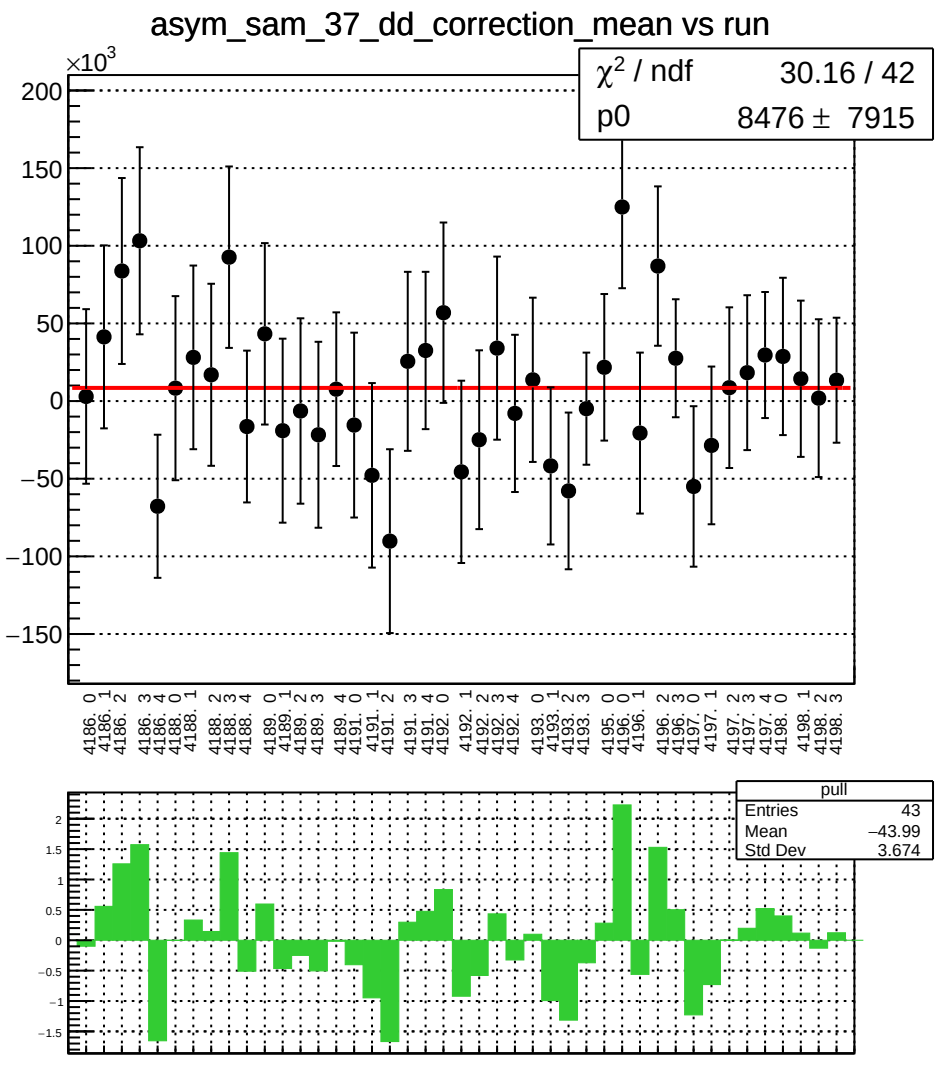

pull1D
Entries 43
Mean 0.002975
Std Dev 0.8409
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

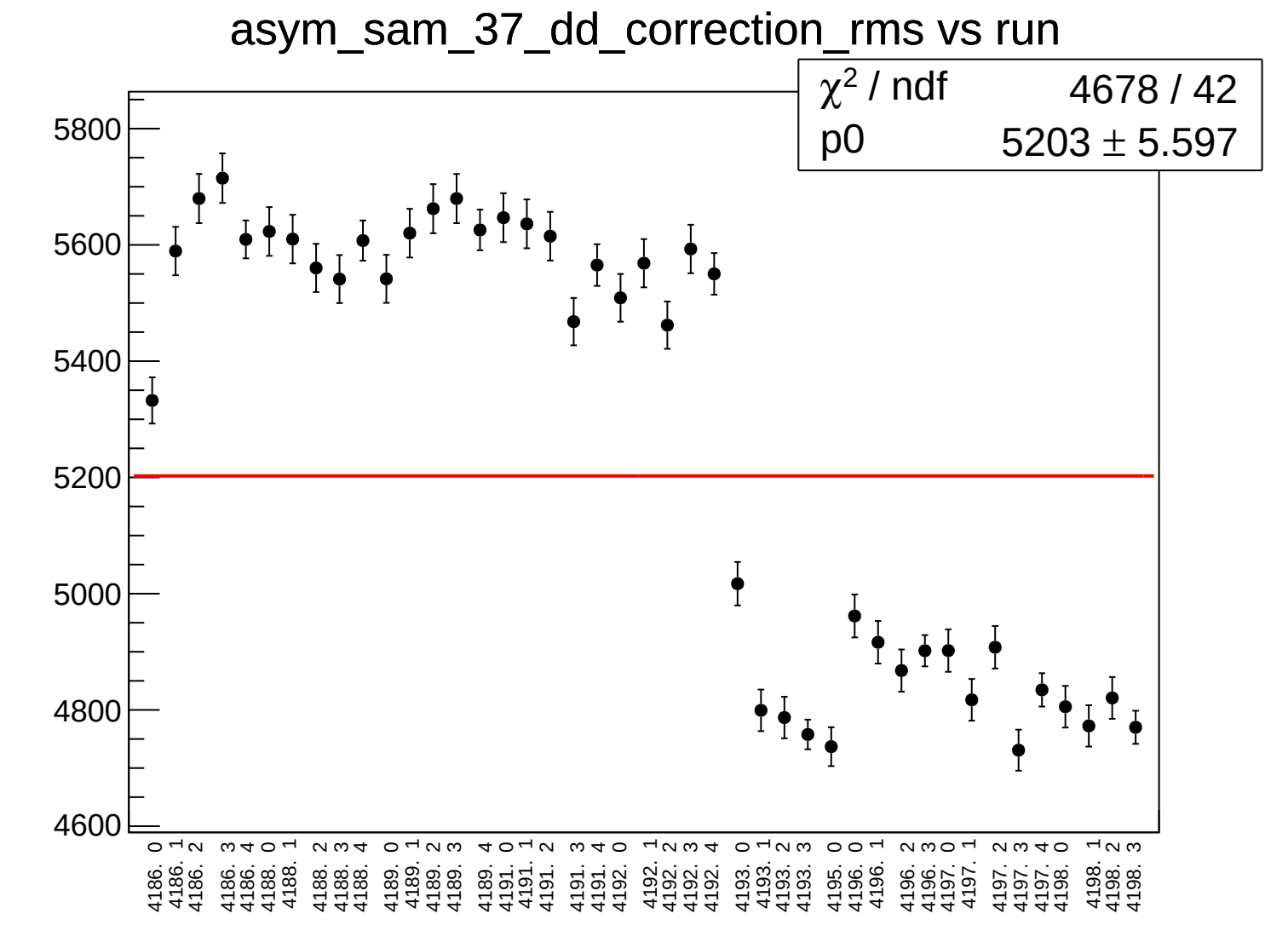

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2287 / 42
p0 4529 ± 4.866
5000
4900
4800
4700
4600
4500
4400
4300
4200
4100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

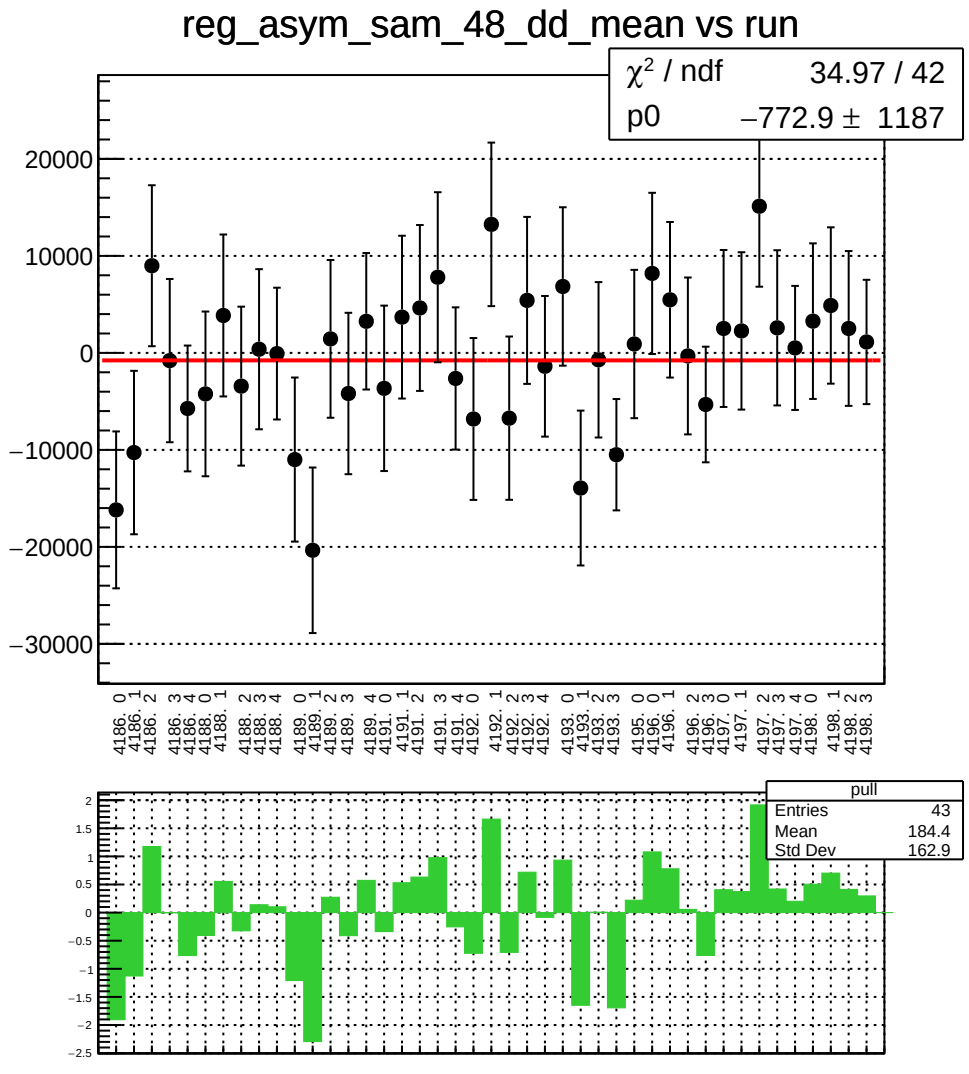

reg_asym_sam_37_dd_mean vs run
χ² / ndf 59.32 / 42
p0 222.9 ± 650.5
15000
10000
5000
0
−5000
−10000
−15000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 23.87
Std Dev 24.59
2
1
0
−1
−2

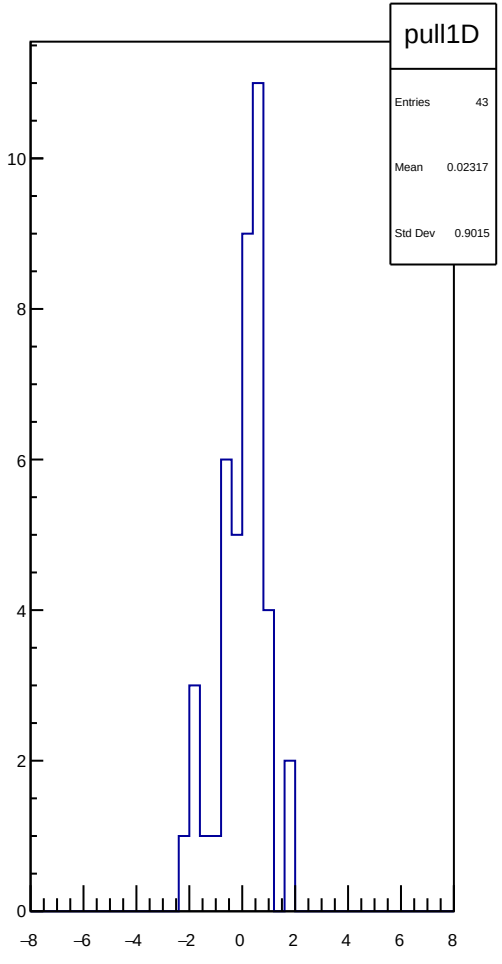

pull1D
Entries 43
Mean 0.05167
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

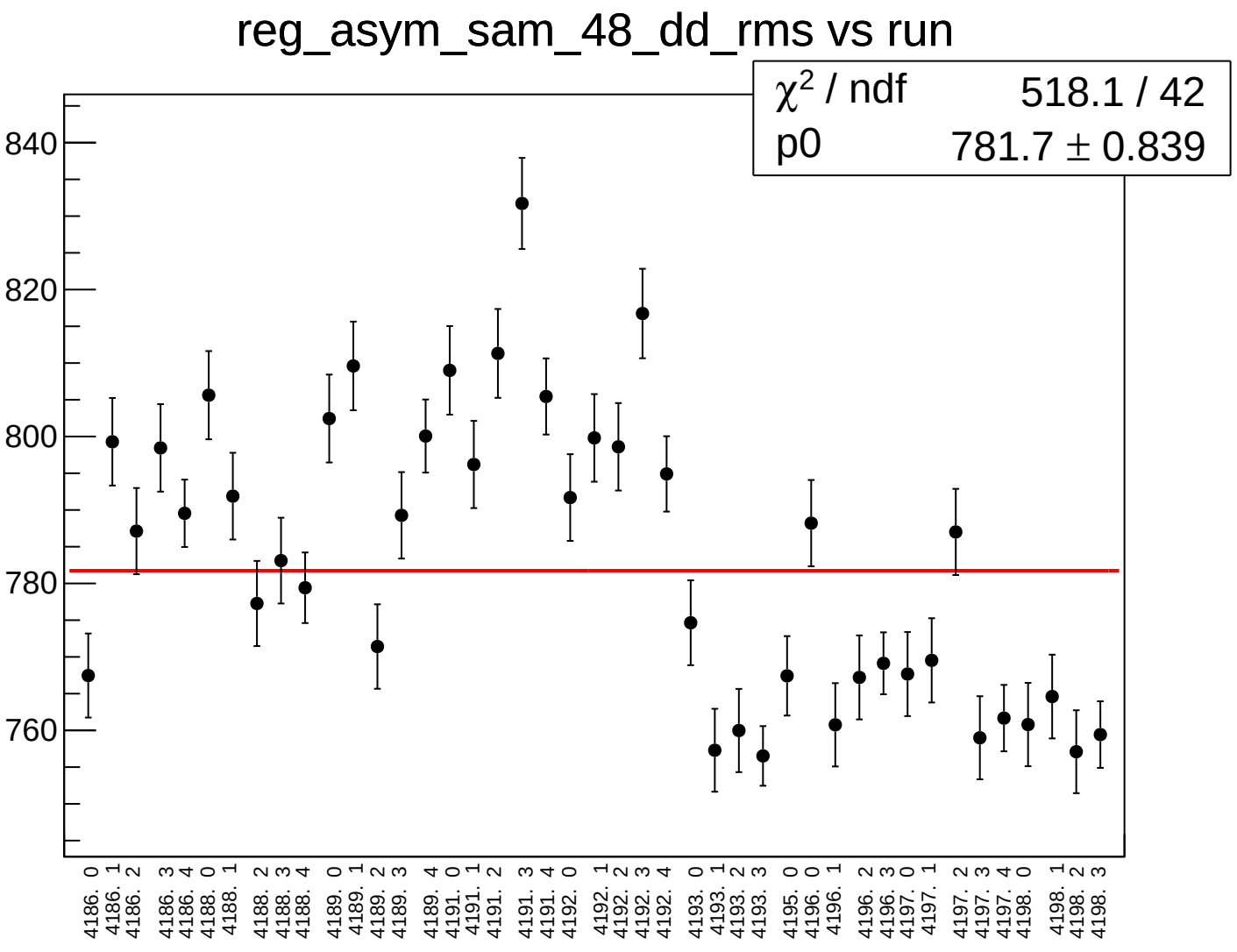

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3695 / 42
p0 427.8 ± 0.46
500
480
460
440
420
400
380
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

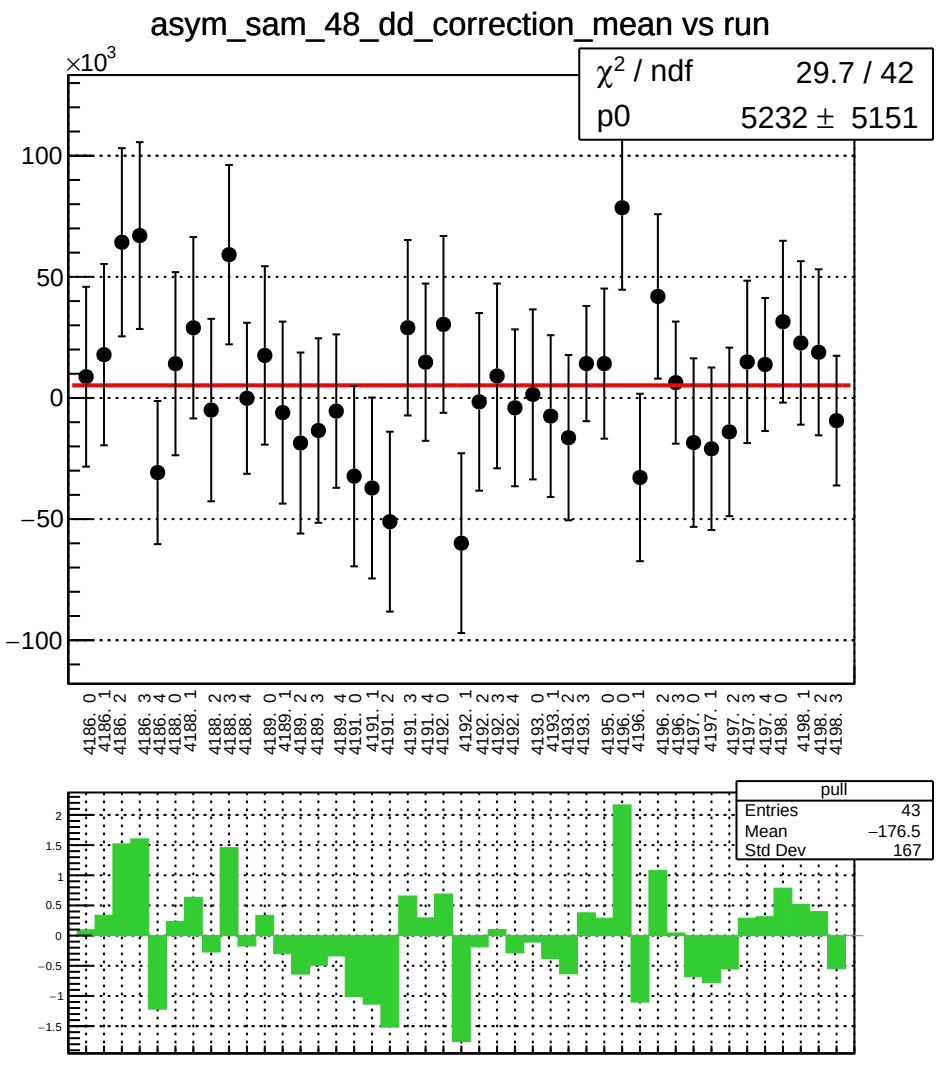

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 30.16 / 42
p0 8476 ± 7915
200
150
100
50
0
−50
−100
−150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −43.99
Std Dev 3.674
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006408
Std Dev 0.8374
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

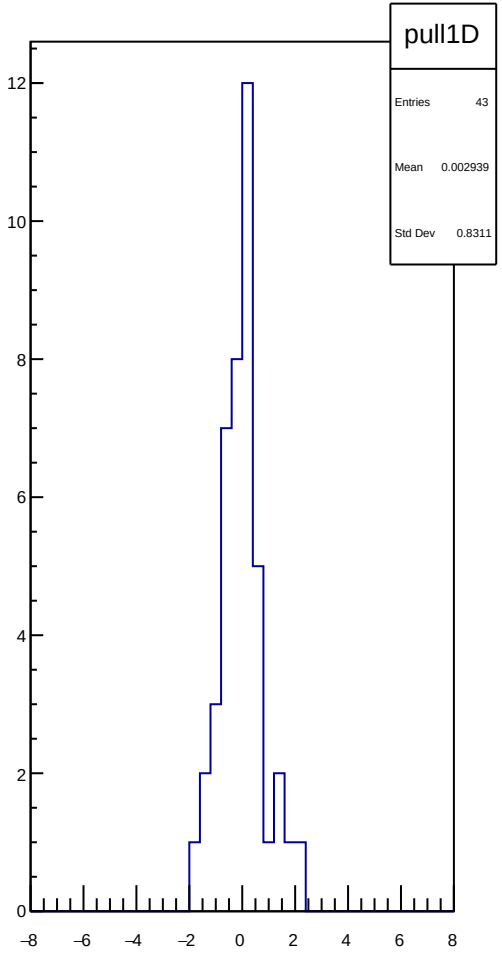

asym_sam_37_dd_correction_rms vs run
χ² / ndf 4678 / 42
p0 5203 ± 5.597
5800
5600
5400
5200
5000
4800
4600
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

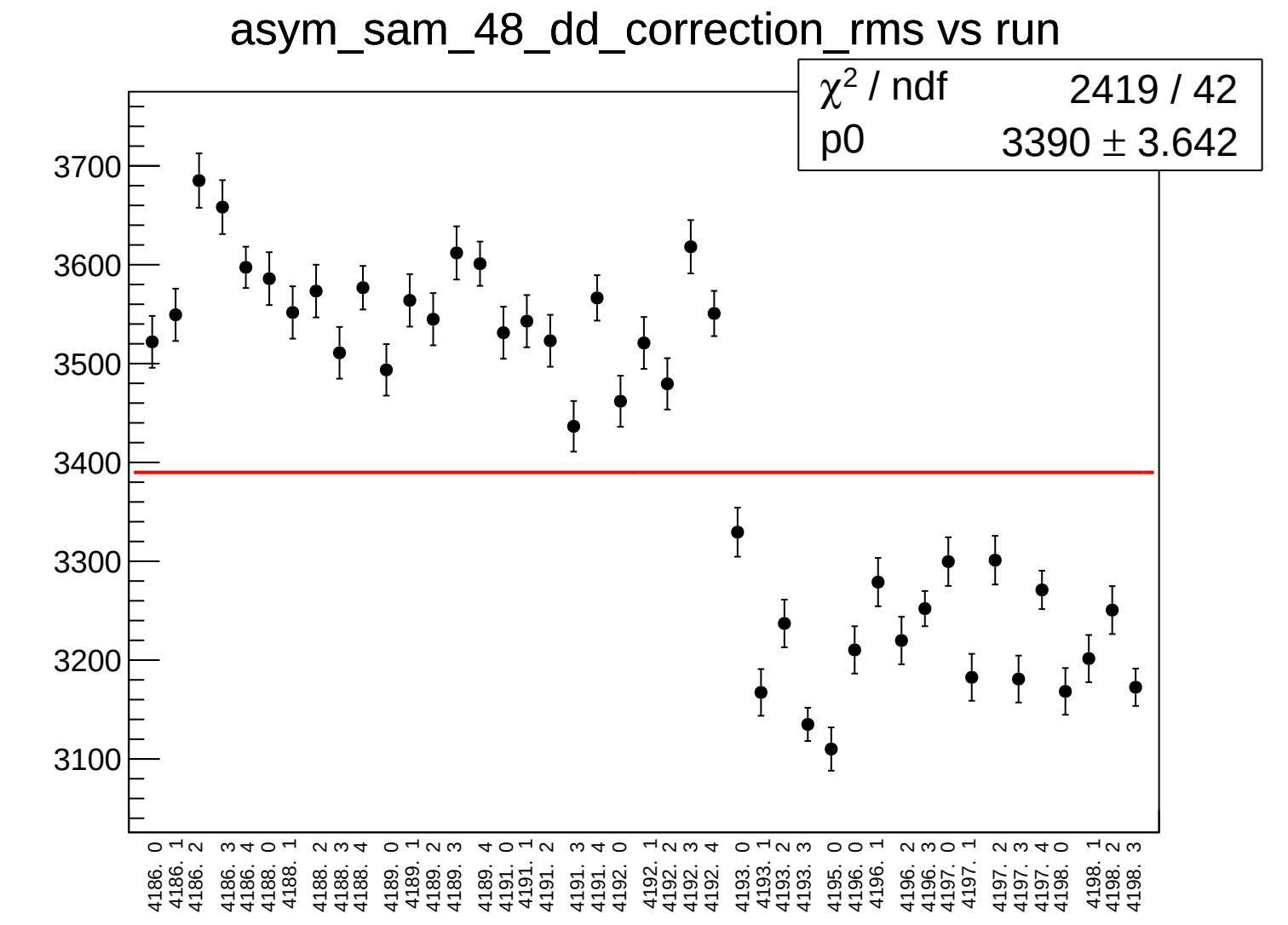

reg_asym_sam_48_dd_mean vs run
χ² / ndf 34.97 / 42
p0 −772.9 ± 1187
20000
10000
0
−10000
−20000
−30000
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 184.4
Std Dev 162.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

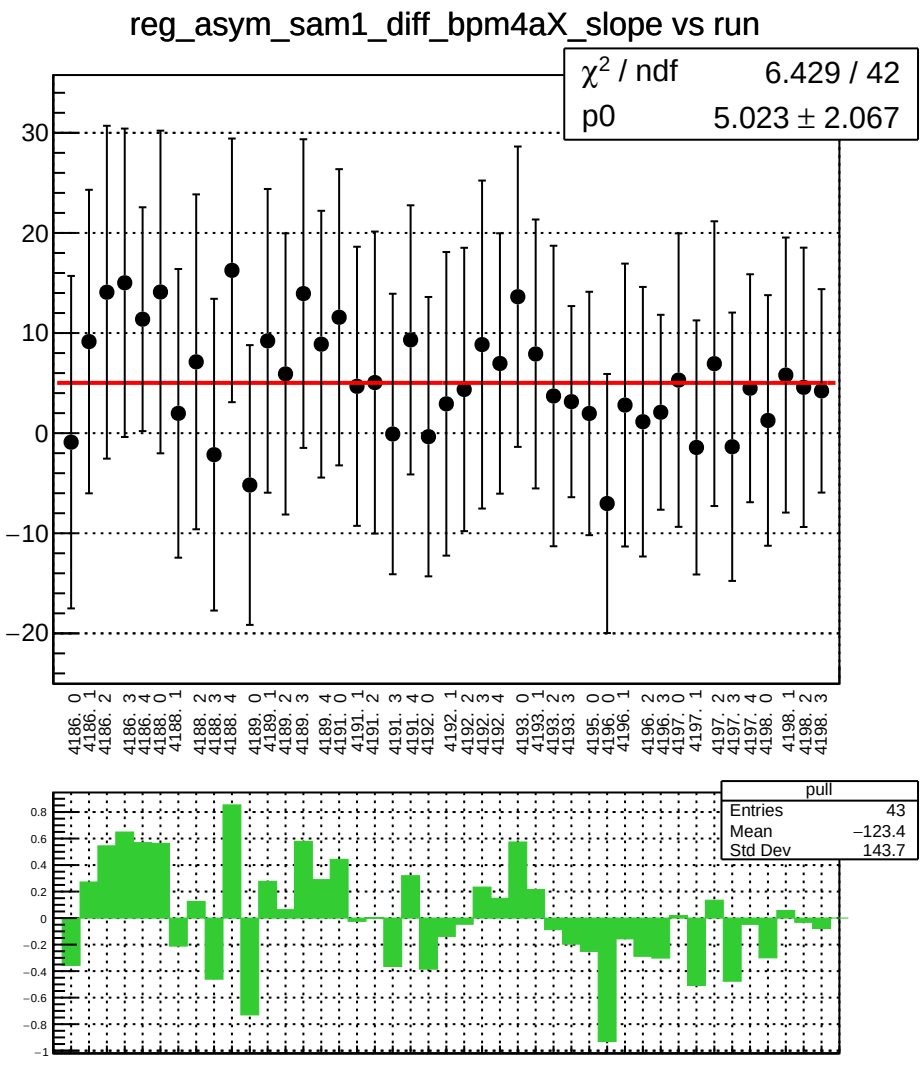

pull1D
Entries 43
Mean 0.02317
Std Dev 0.9015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

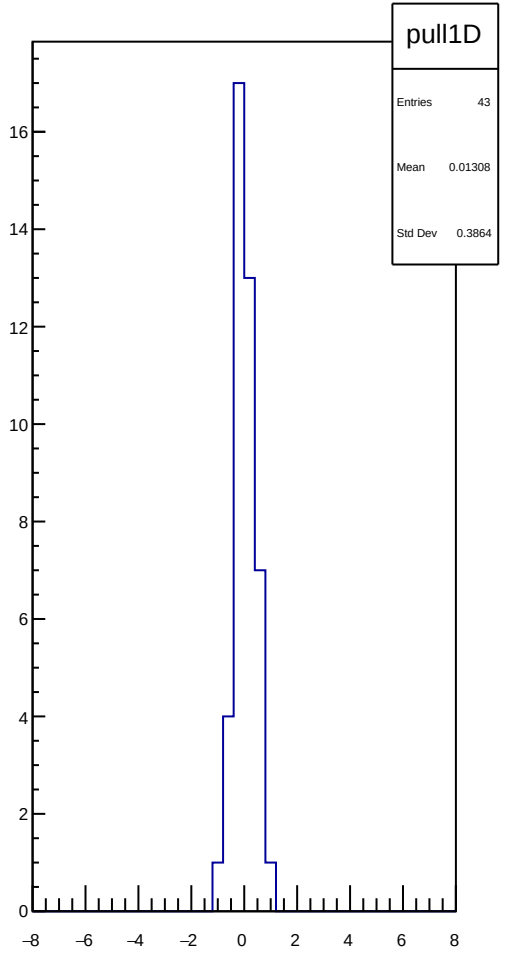

reg_asym_sam_48_dd_rms vs run
χ² / ndf 518.1 / 42
p0 781.7 ± 0.839
840
820
800
780
760
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

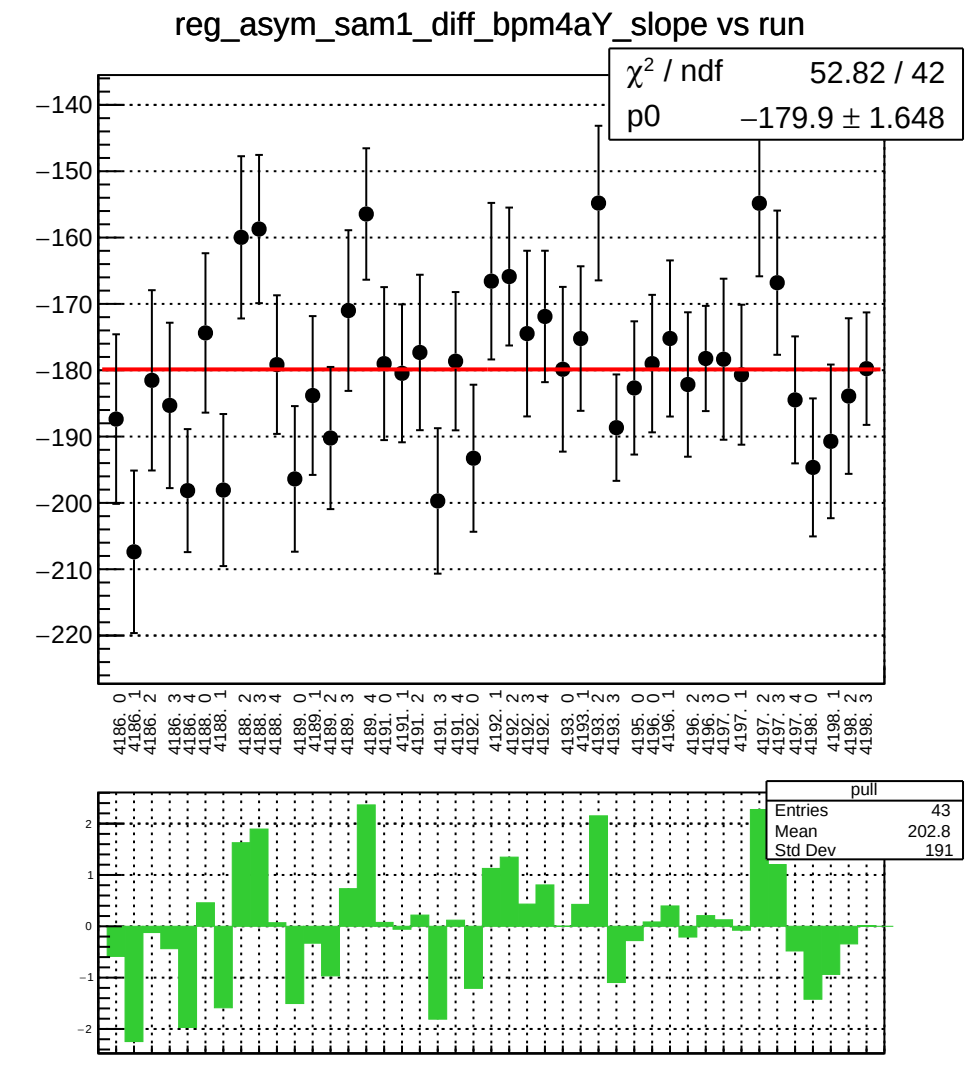

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 29.7 / 42
p0 5232 ± 5151
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −176.5
Std Dev 167
2
1.5
1
0.5
0
−0.5
−1
−1.5

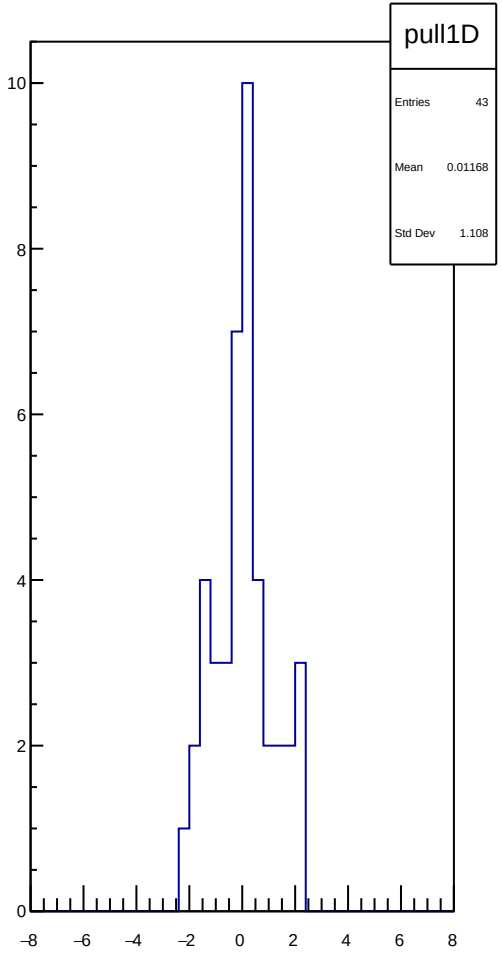

pull1D
Entries 43
Mean 0.002939
Std Dev 0.8311
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

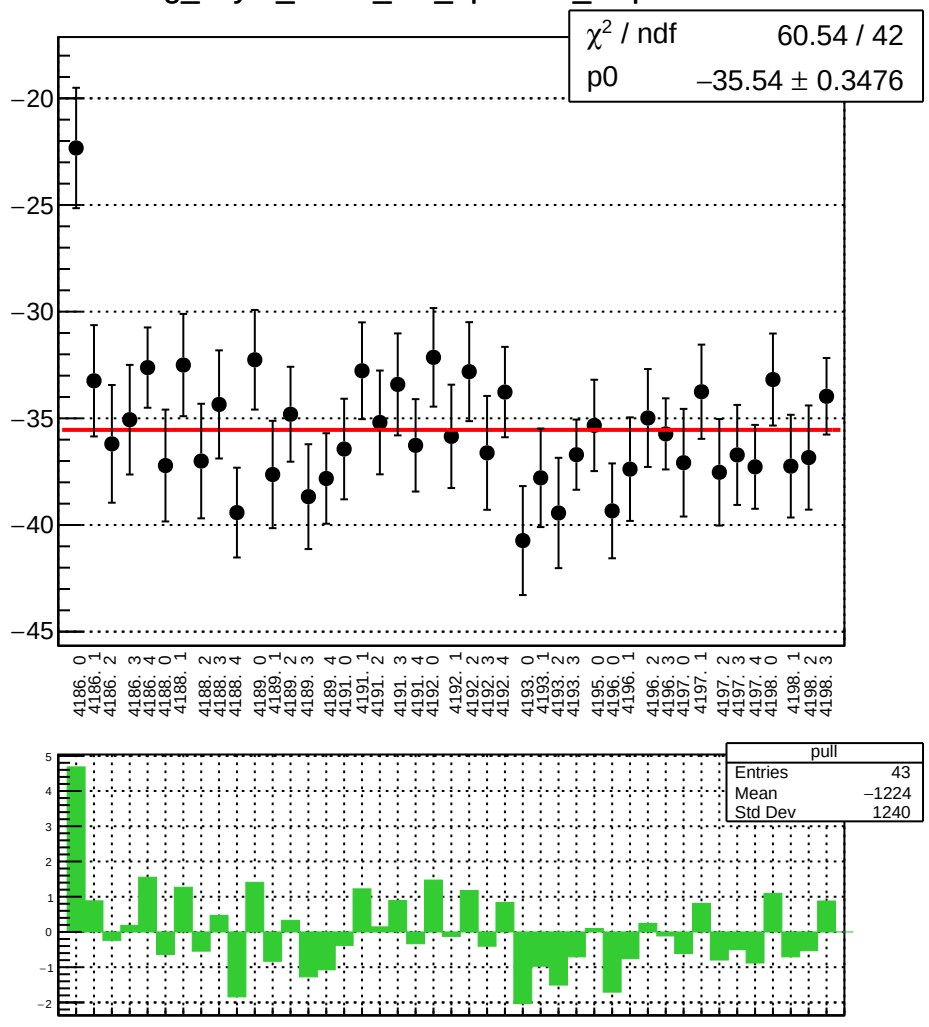

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2419 / 42
p0 3390 ± 3.642
3700
3600
3500
3400
3300
3200
3100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

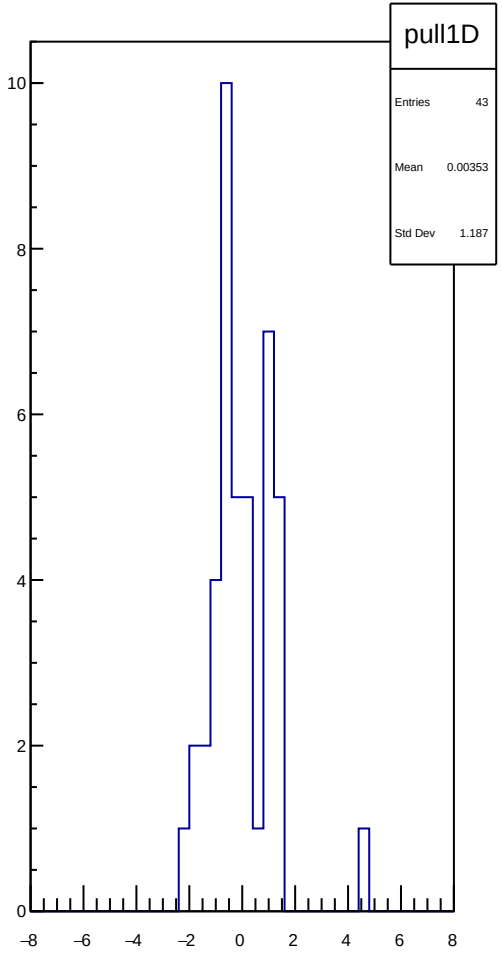

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 6.429 / 42
p0 5.023 ± 2.067
pull
Entries 43
Mean −123.4
Std Dev 143.7

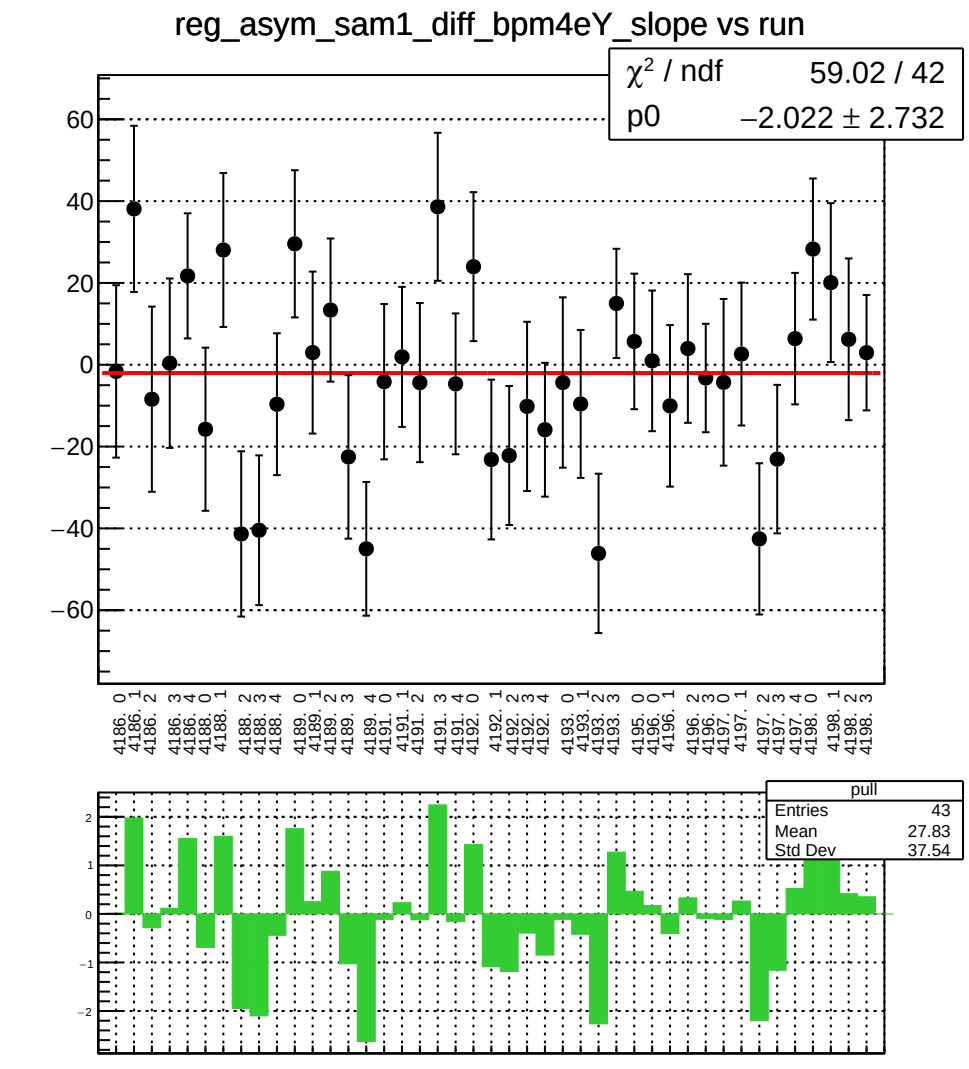

pull1D
Entries 43
Mean 0.01308
Std Dev 0.3864

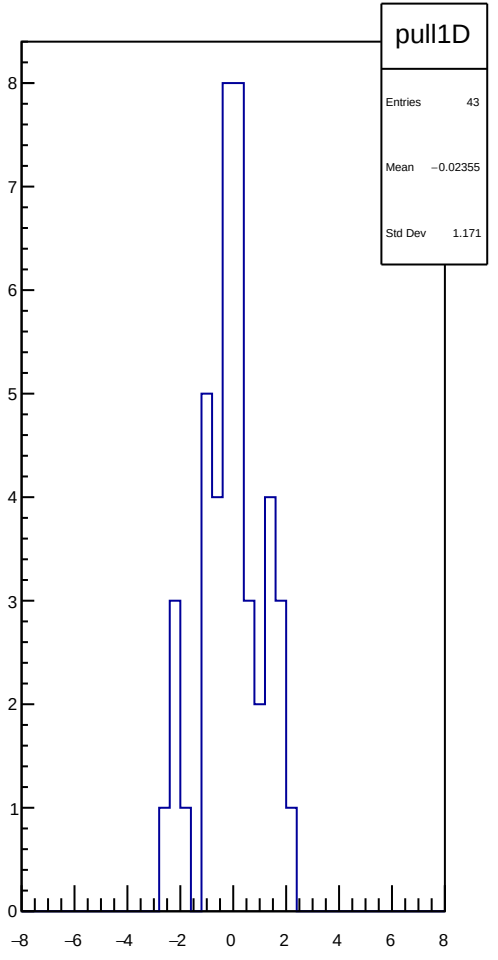

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 52.82 / 42
p0 −179.9 ± 1.648
−140
−150
−160
−170
−180
−190
−200
−210
−220
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 202.8
Std Dev 191
2
1
0
−1
−2

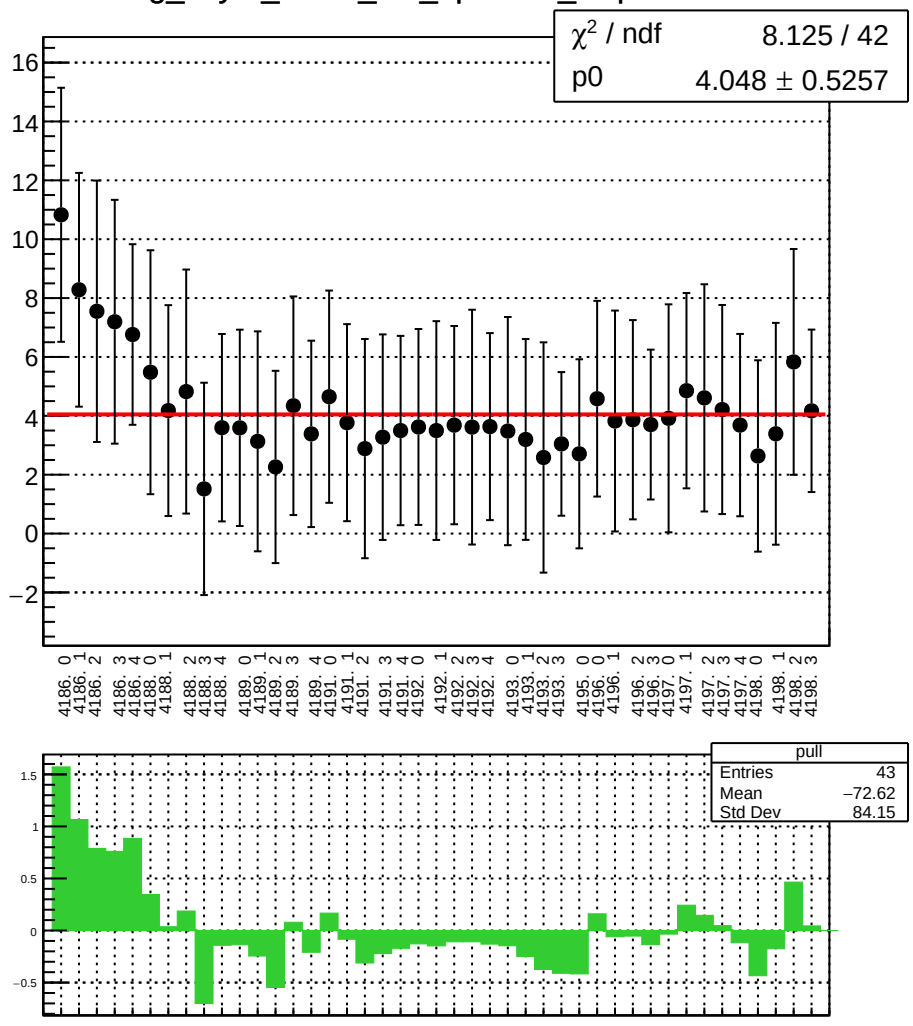

pull1D
Entries 43
Mean 0.01168
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

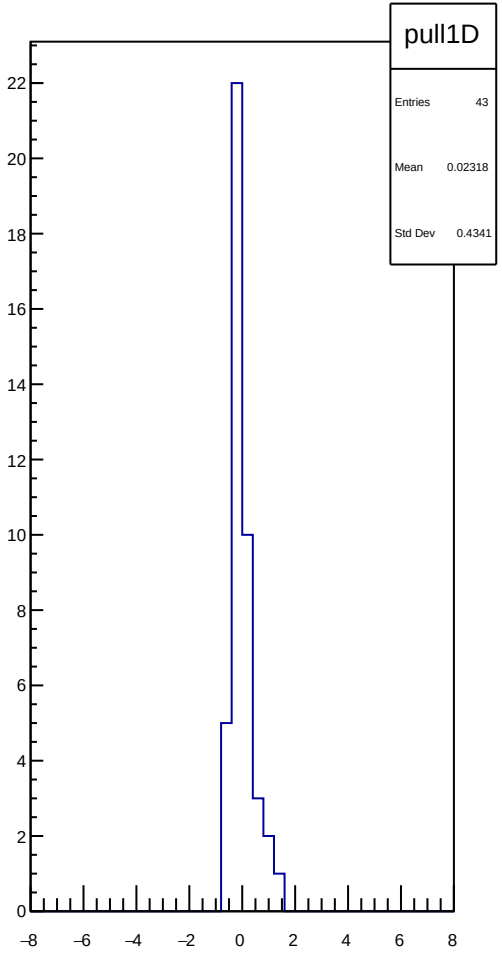

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 60.54 / 42
p0 −35.54 ± 0.3476
−20
−25
−30
−35
−40
−45
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1224
Std Dev 1240
5
4
3
2
1
0
−1
−2

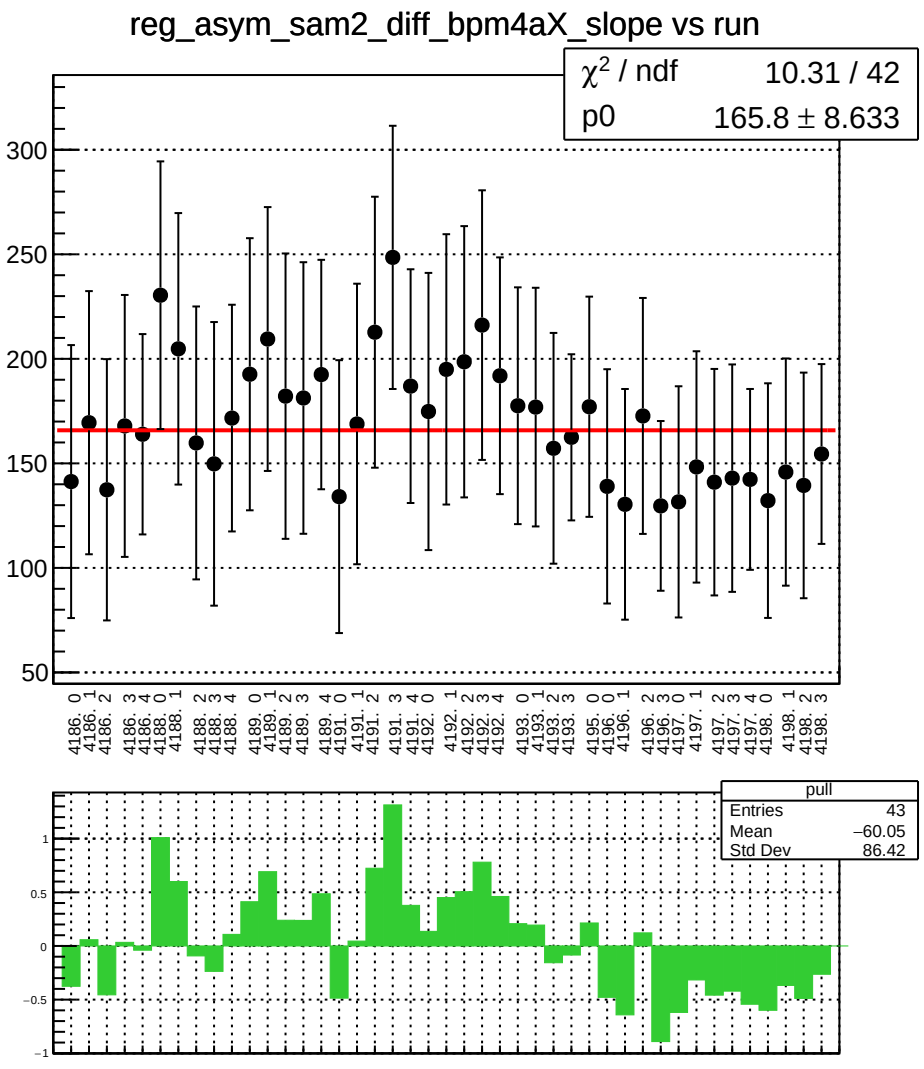

pull1D
Entries 43
Mean 0.00353
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

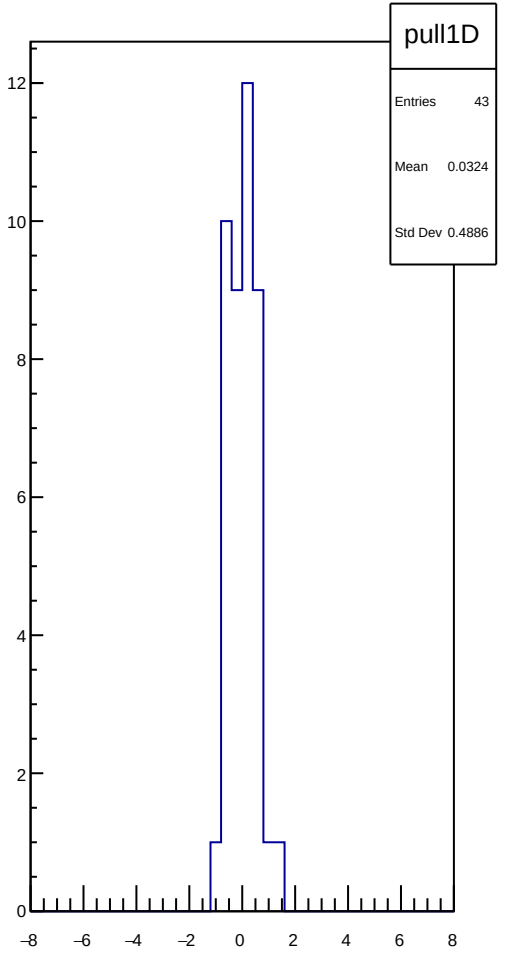

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 59.02 / 42
p0 −2.022 ± 2.732
pull
Entries 43
Mean 27.83
Std Dev 37.54

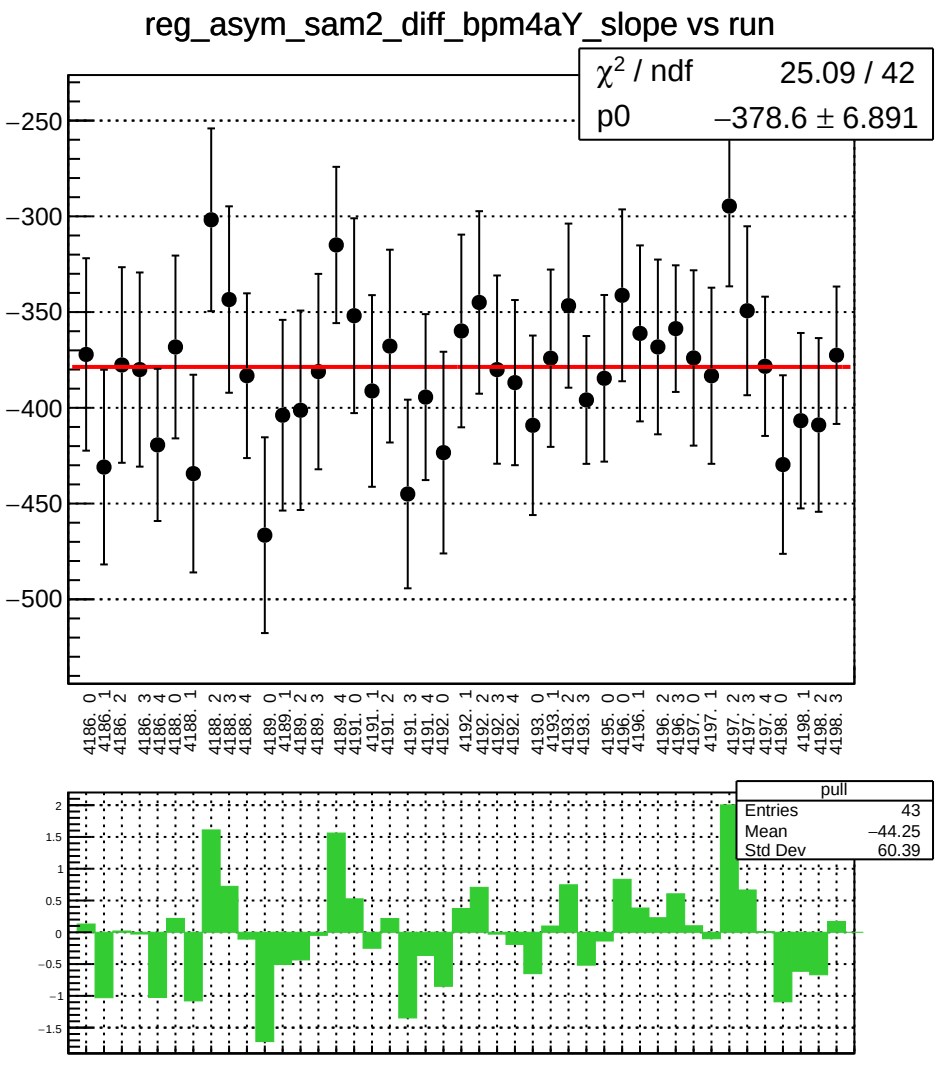

pull1D
Entries 43
Mean −0.02355
Std Dev 1.171

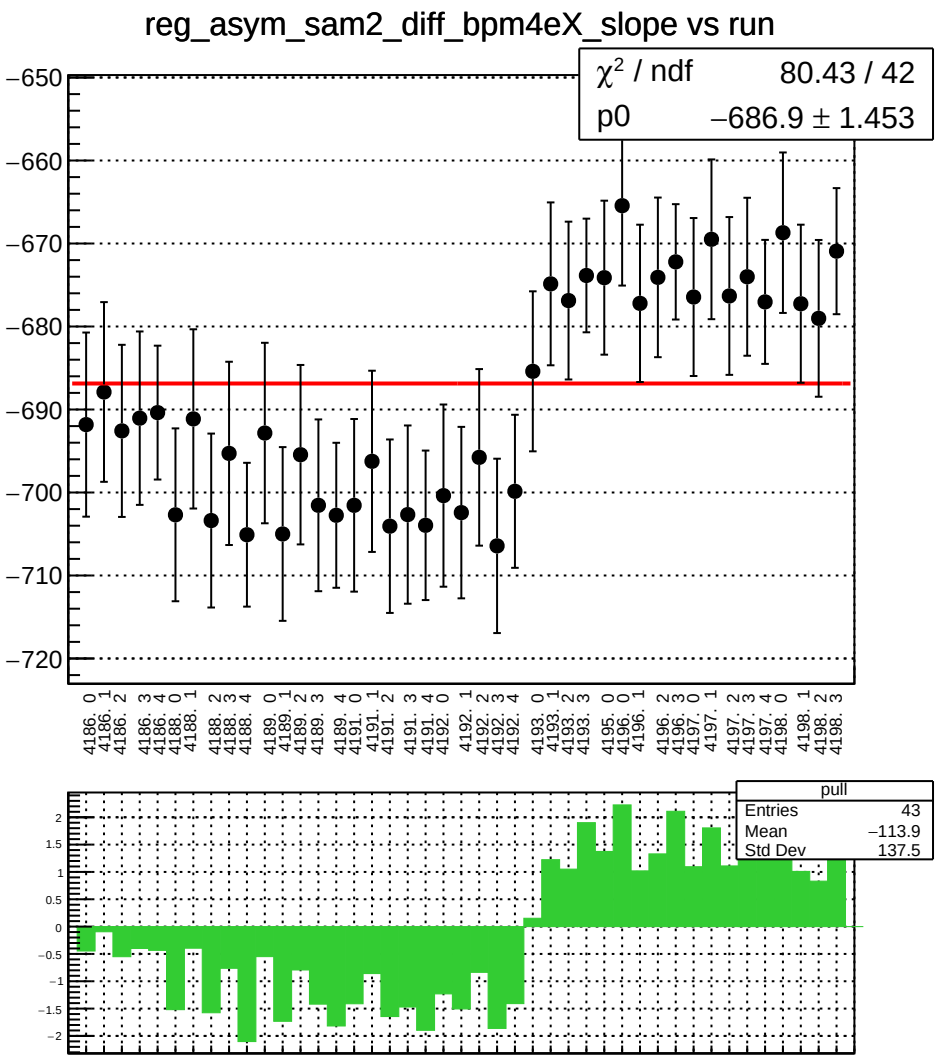

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 8.125 / 42
p0 4.048 ± 0.5257
pull
Entries 43
Mean −72.62
Std Dev 84.15

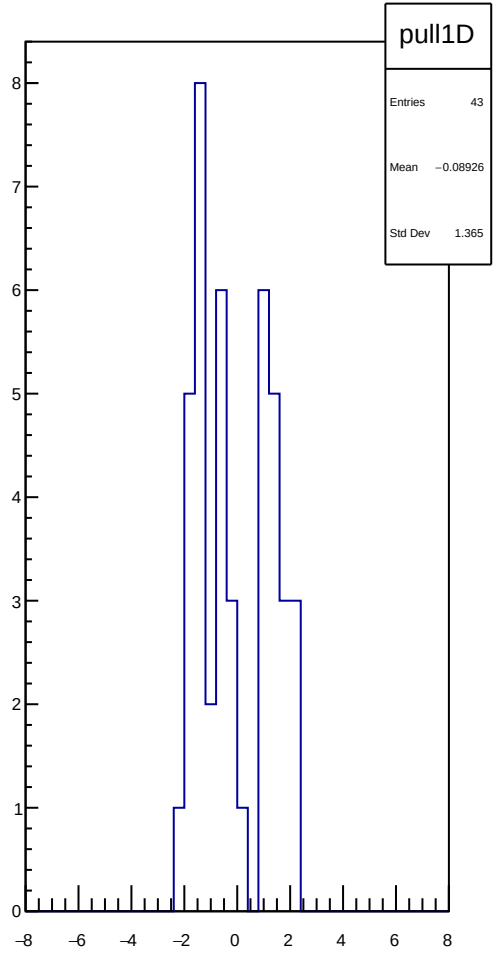

pull1D
Entries 43
Mean 0.02318
Std Dev 0.4341

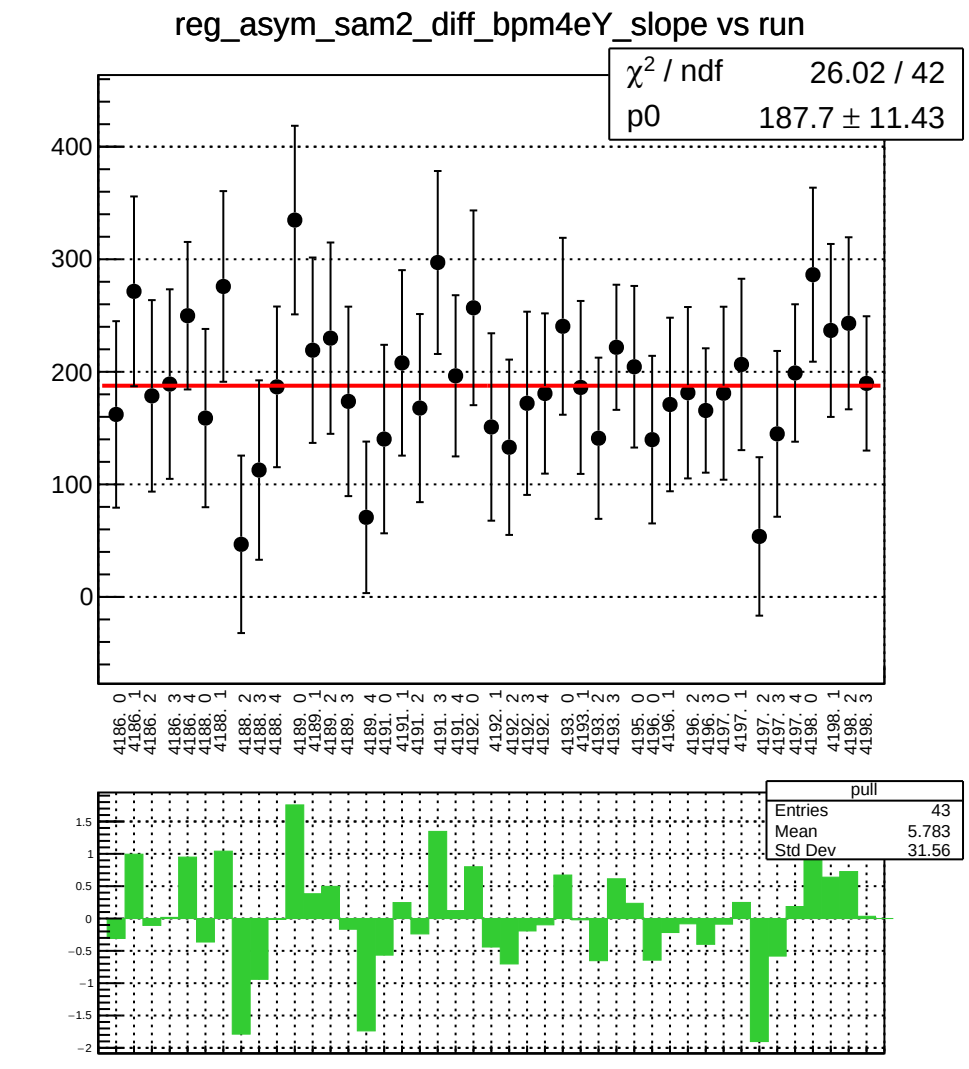

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 10.31 / 42
p0 165.8 ± 8.633
300
250
200
150
100
50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −60.05
Std Dev 86.42
1
0.5
0
−0.5
−1

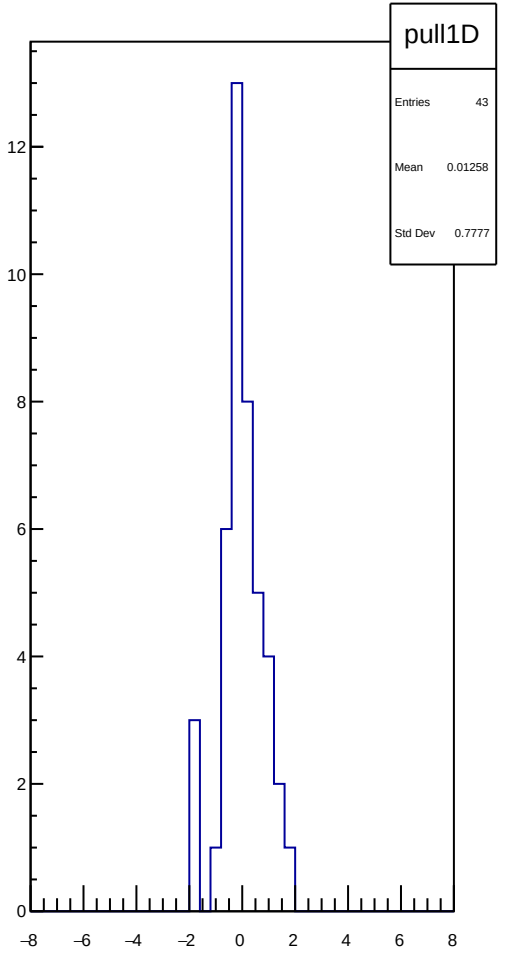

pull1D
Entries 43
Mean 0.0324
Std Dev 0.4886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

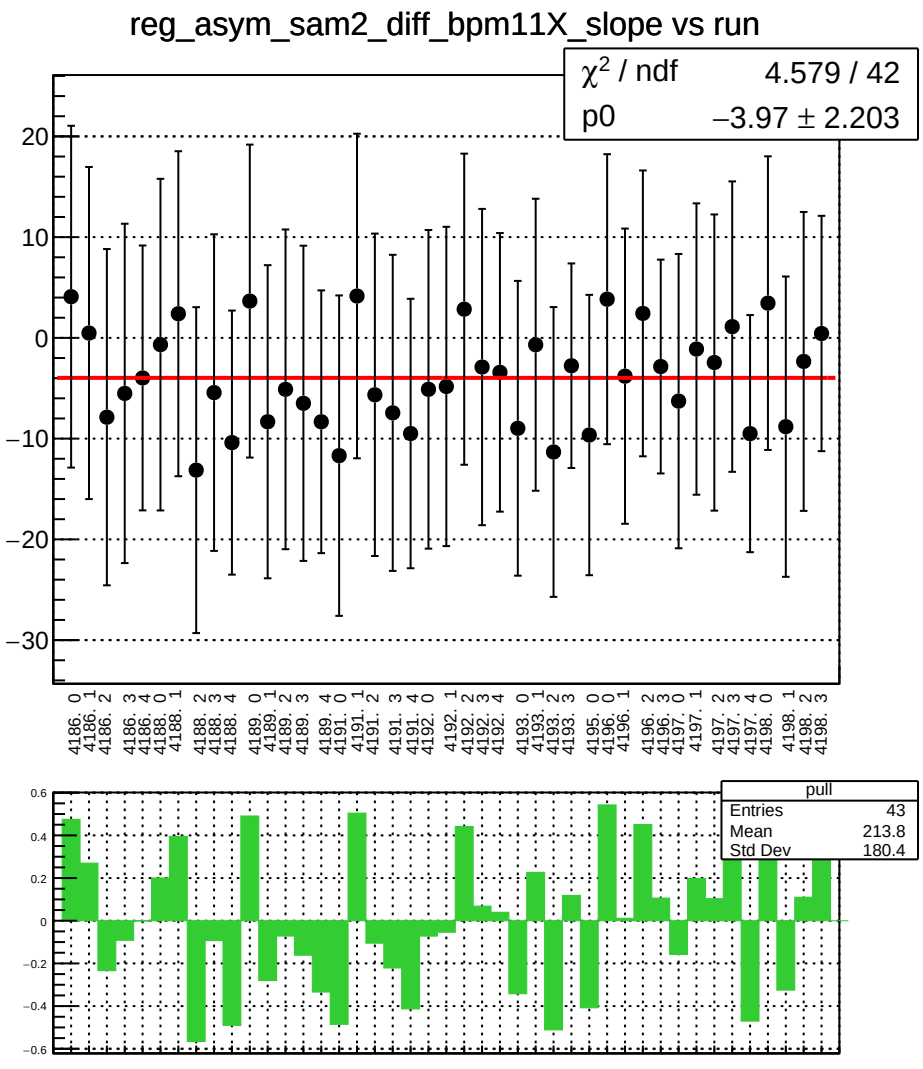

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 25.09 / 42
p0 −378.6 ± 6.891
−250
−300
−350
−400
−450
−500
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −44.25
Std Dev 60.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01984
Std Dev 0.7636
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

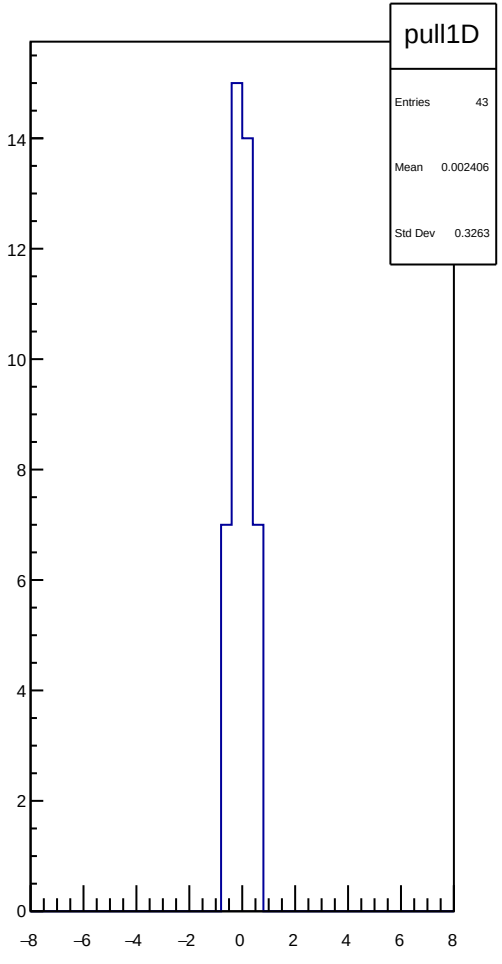

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 80.43 / 42
p0 −686.9 ± 1.453
pull
Entries 43
Mean −113.9
Std Dev 137.5

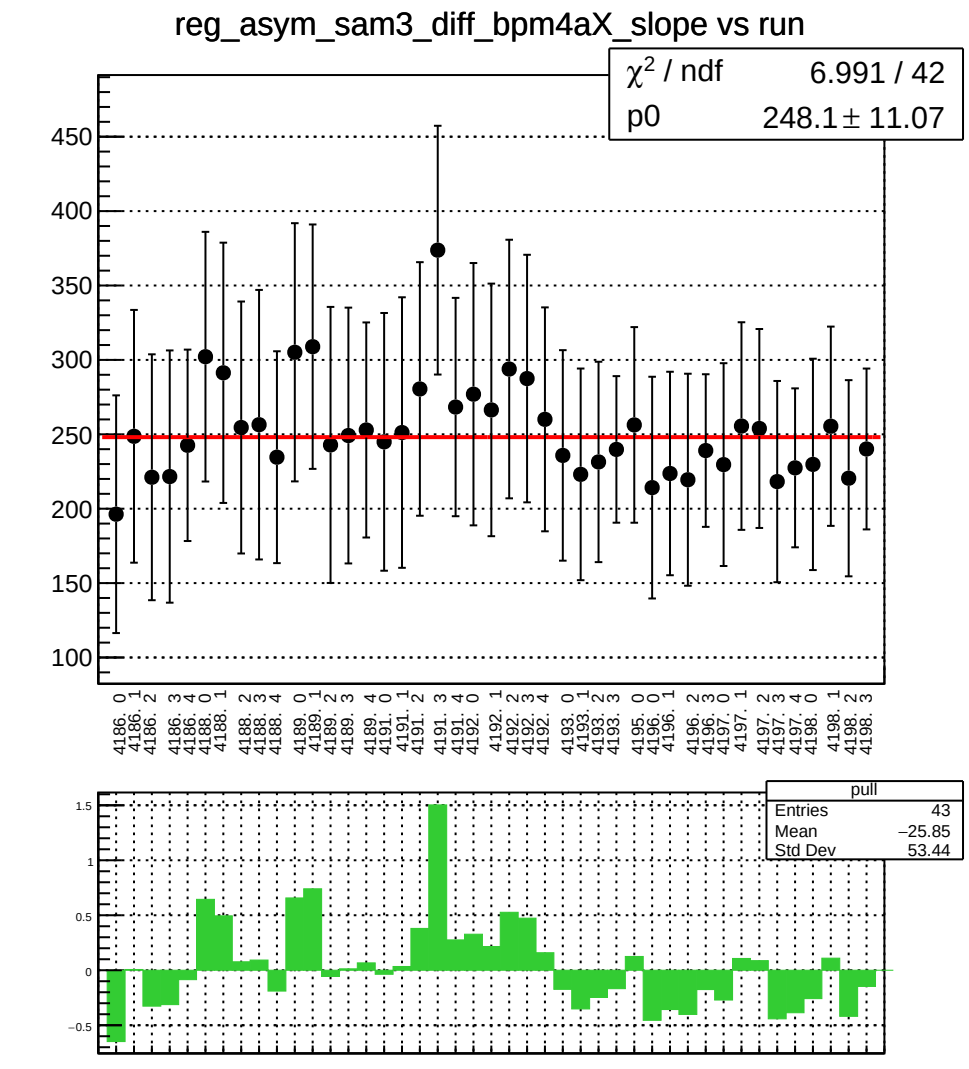

pull1D
Entries 43
Mean −0.08926
Std Dev 1.365

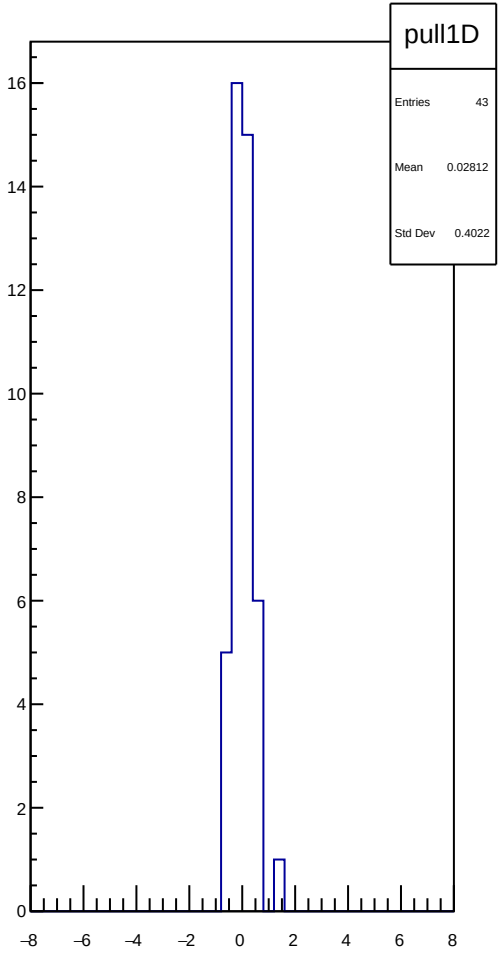

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 26.02 / 42
p0 187.7 ± 11.43
400
300
200
100
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 5.783
Std Dev 31.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2

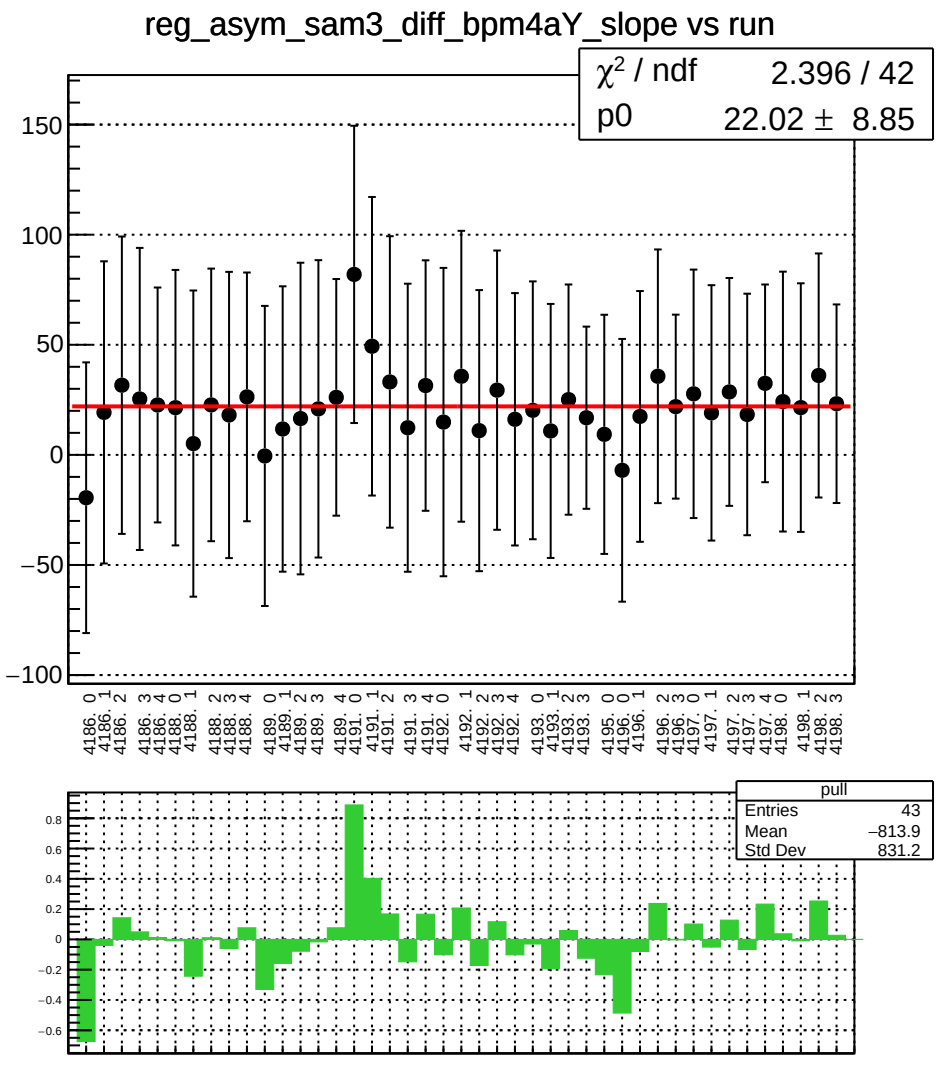

pull1D
Entries 43
Mean 0.01258
Std Dev 0.7777
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

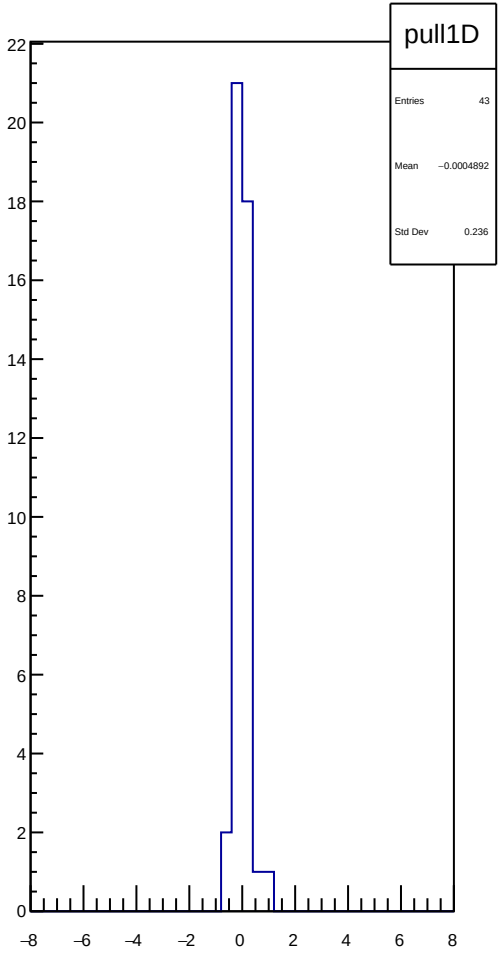

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 4.579 / 42
p0 −3.97 ± 2.203
pull
Entries 43
Mean 213.8
Std Dev 180.4

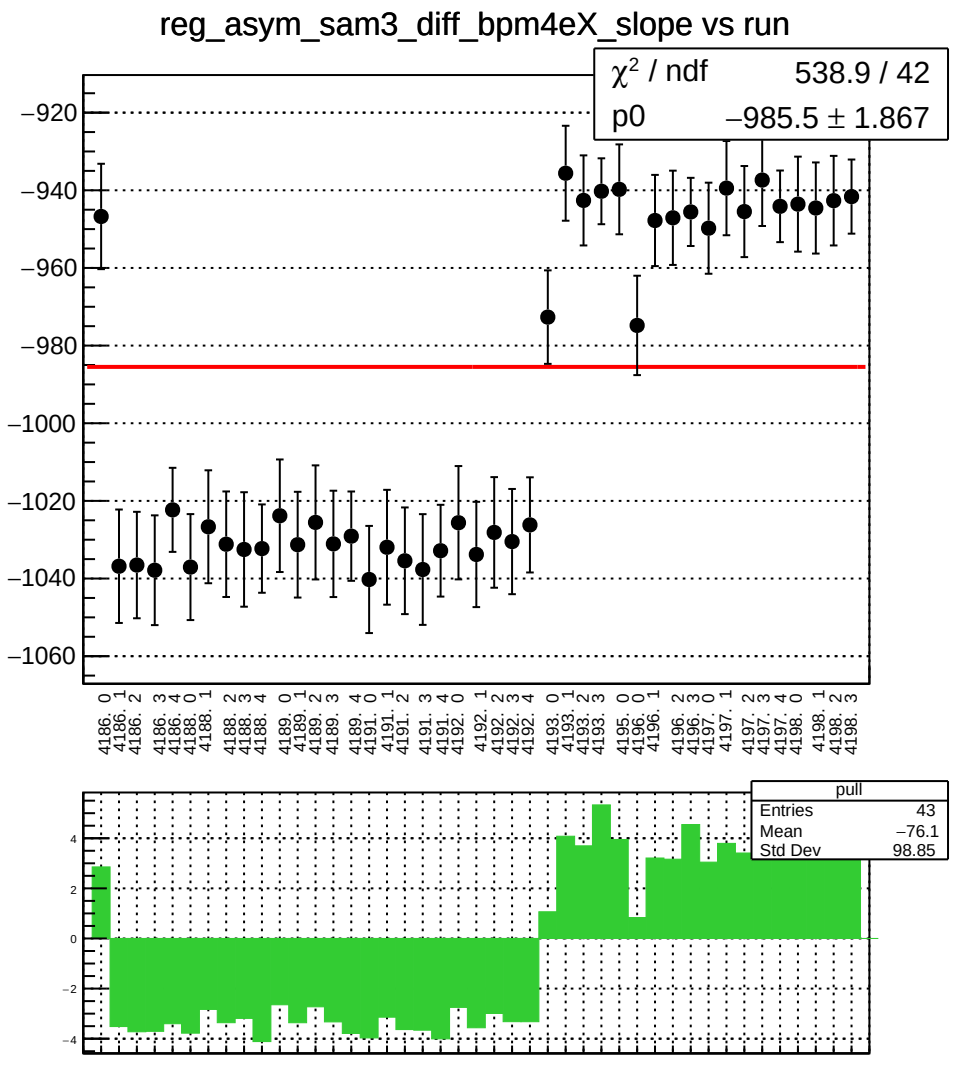

pull1D
Entries 43
Mean 0.002406
Std Dev 0.3263

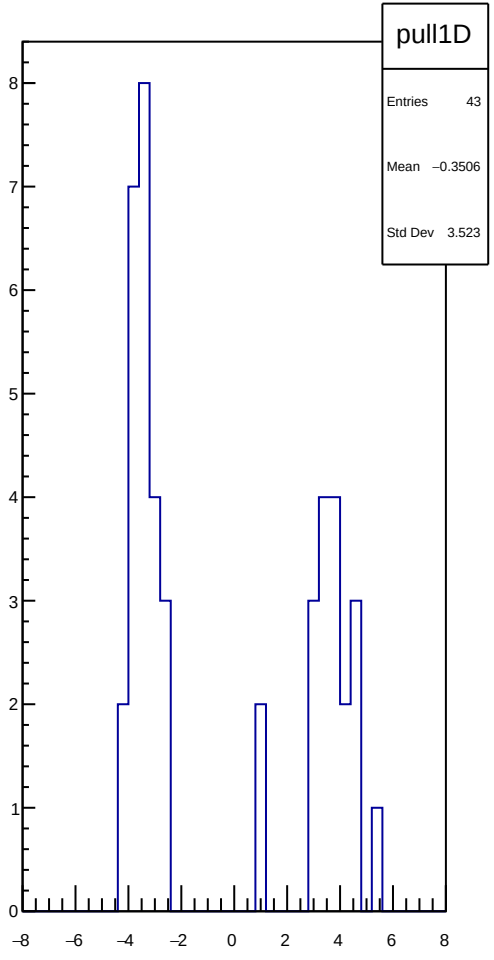

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 6.991 / 42
p0 248.1 ± 11.07
pull
Entries 43
Mean −25.85
Std Dev 53.44

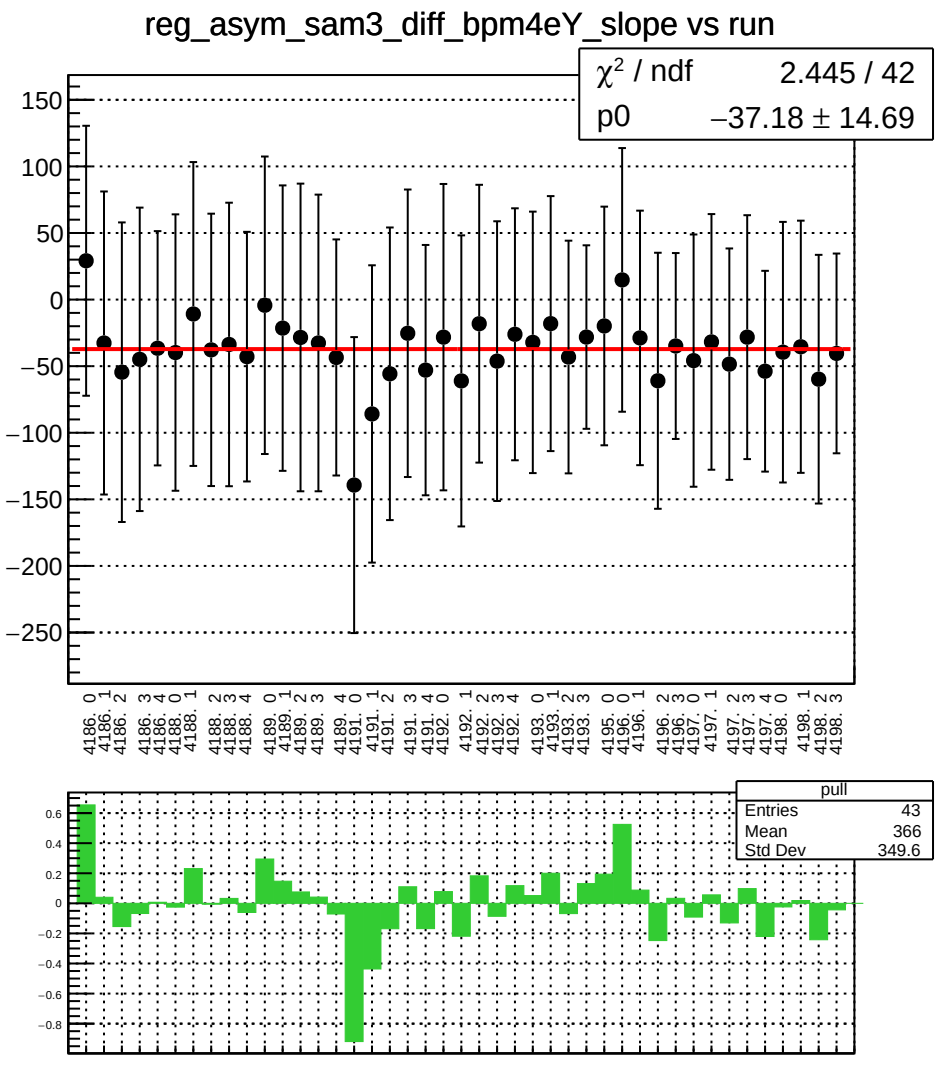

pull1D
Entries 43
Mean 0.02812
Std Dev 0.4022

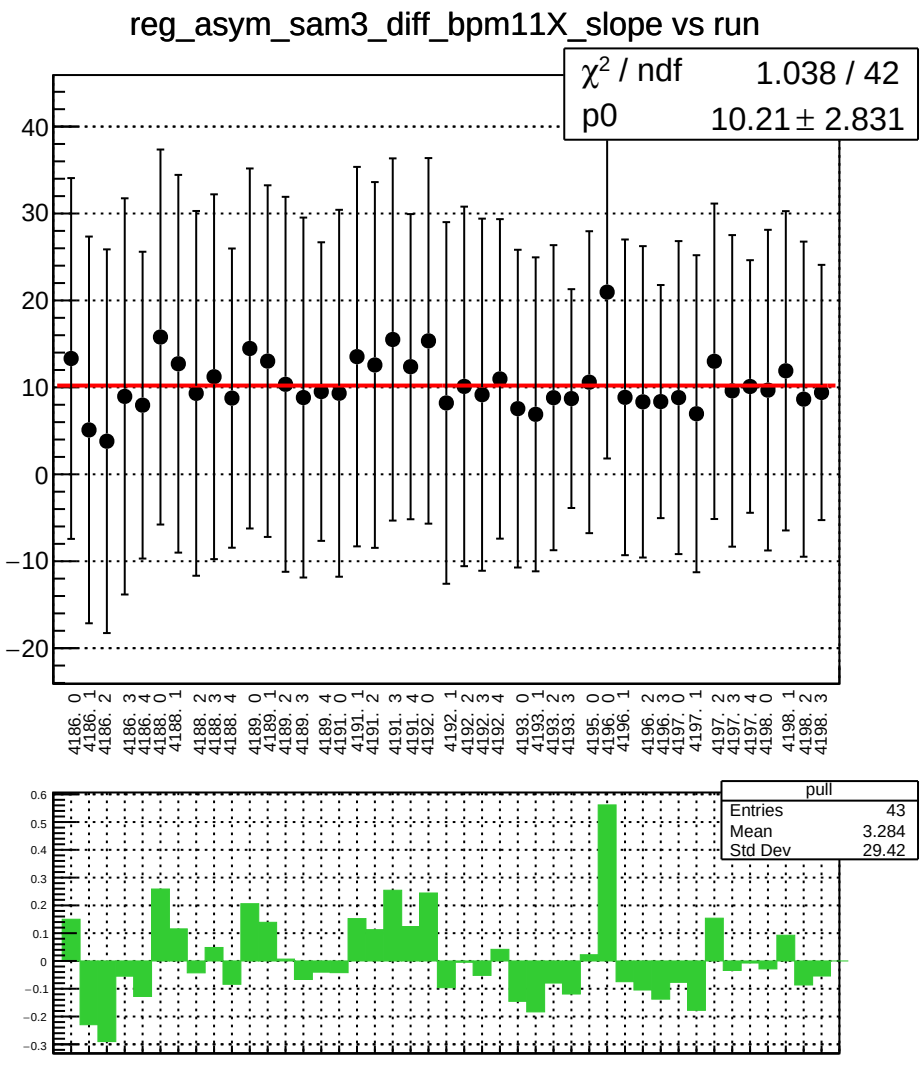

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.396 / 42
p0 22.02 ± 8.85
150
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −813.9
Std Dev 831.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

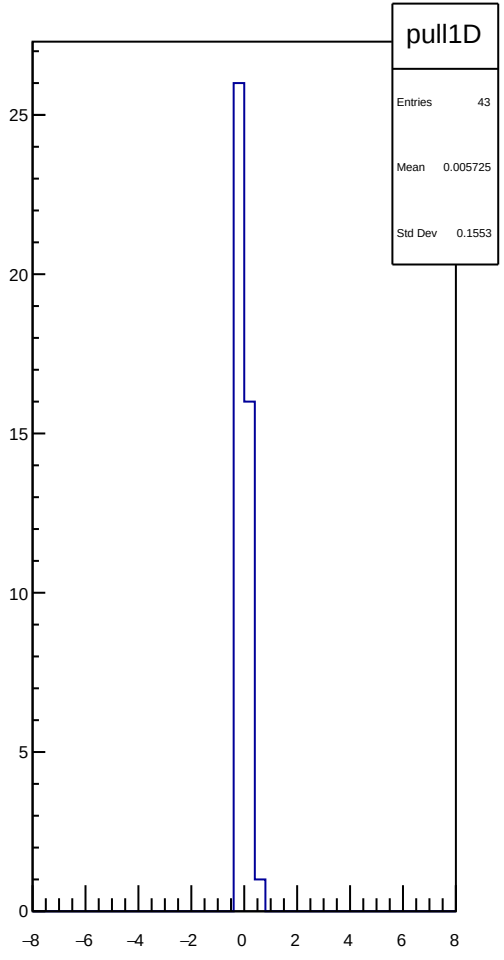

pull1D
Entries 43
Mean −0.0004892
Std Dev 0.236
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

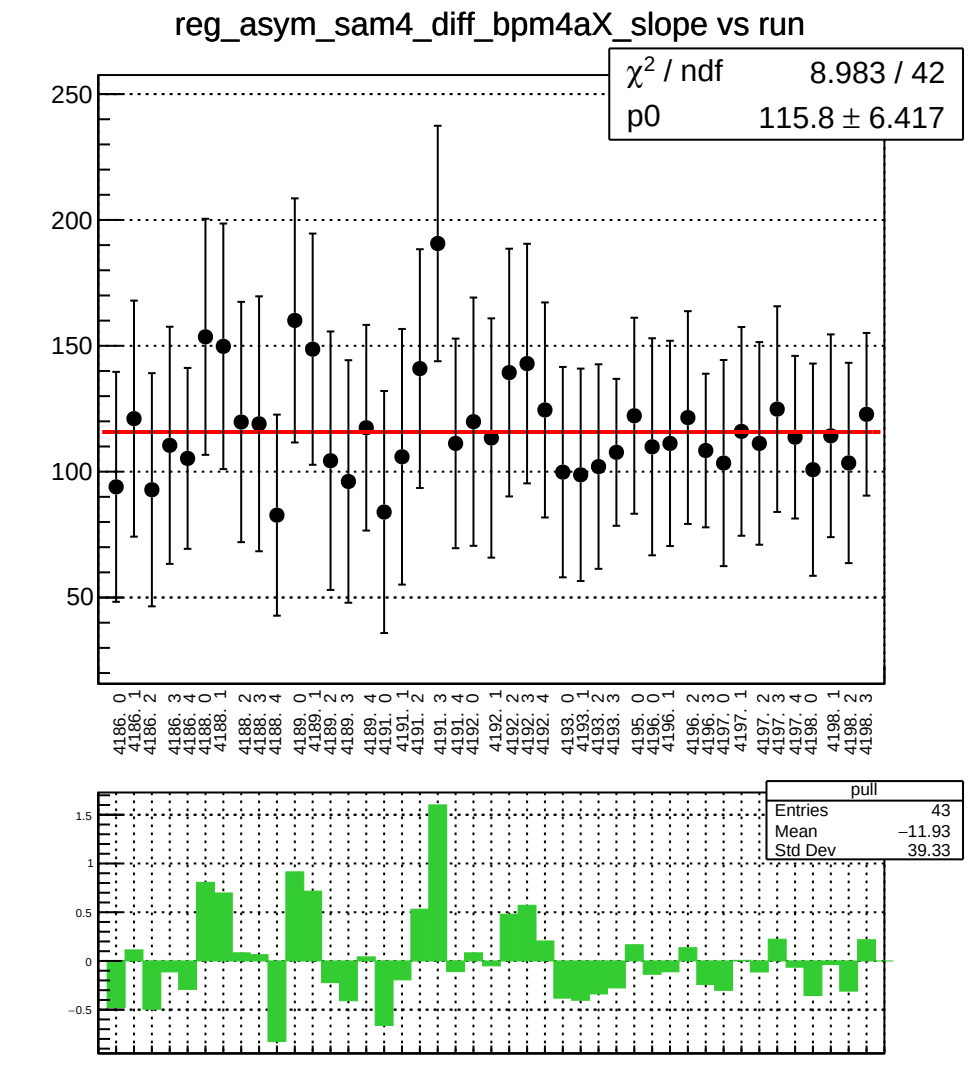

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 538.9 / 42
p0 −985.5 ± 1.867
−920
−940
−960
−980
−1000
−1020
−1040
−1060
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −76.1
Std Dev 98.85
4
2
0
−2
−4

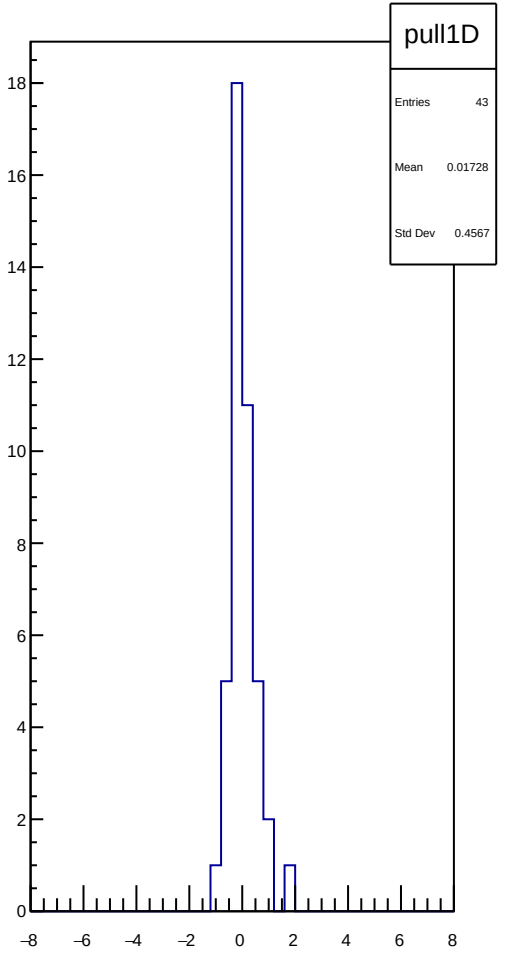

pull1D
Entries 43
Mean −0.3506
Std Dev 3.523
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

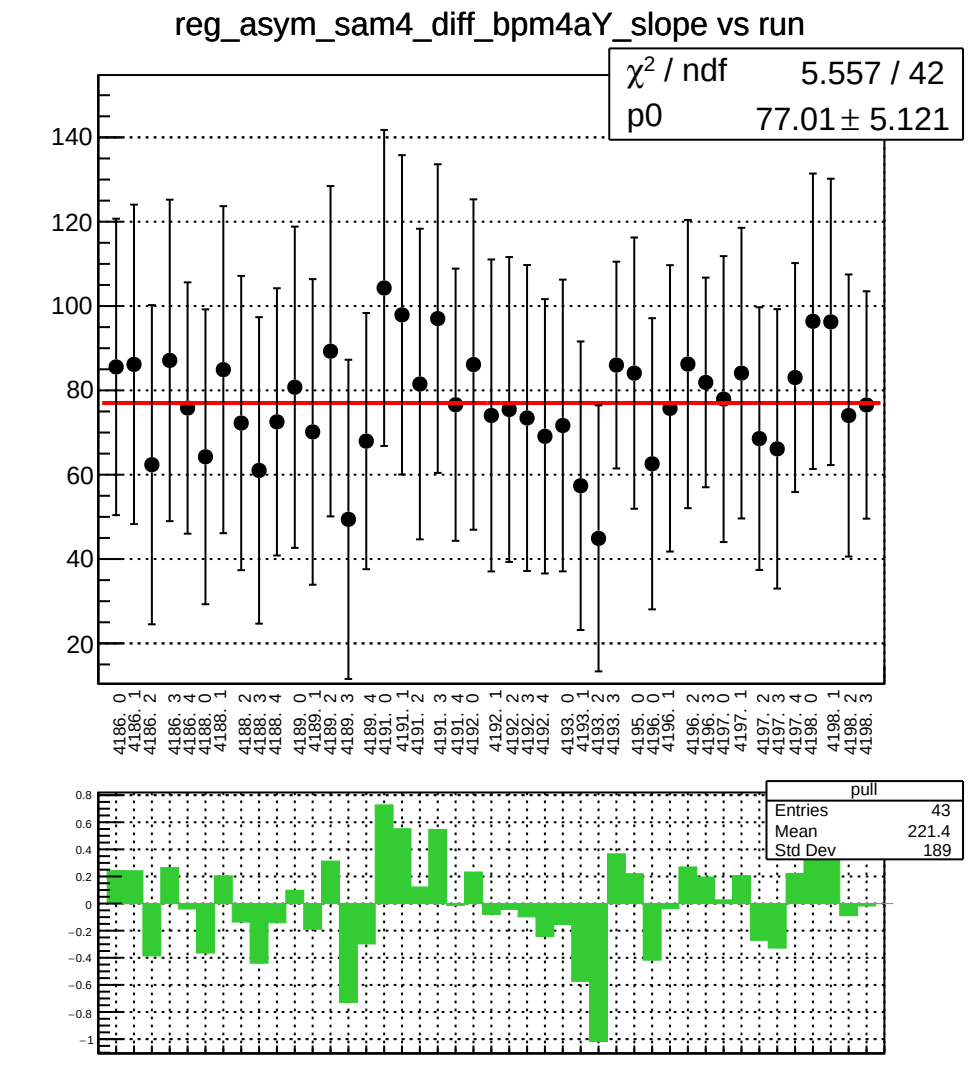

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.445 / 42
p0 −37.18 ± 14.69
150
100
50
0
−50
−100
−150
−200
−250
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 366
Std Dev 349.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.0009167
Std Dev 0.2385
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

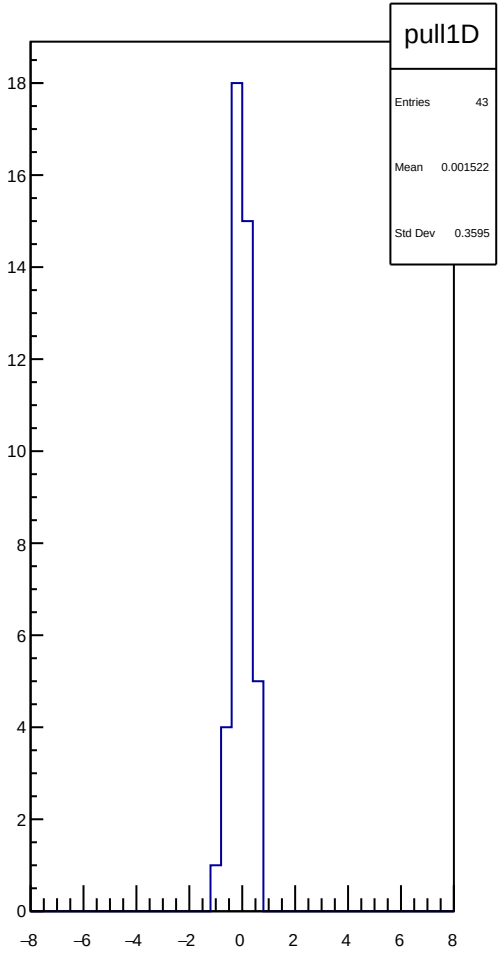

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.038 / 42
p0 10.21 ± 2.831
40
30
20
10
0
−10
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 3.284
Std Dev 29.42
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

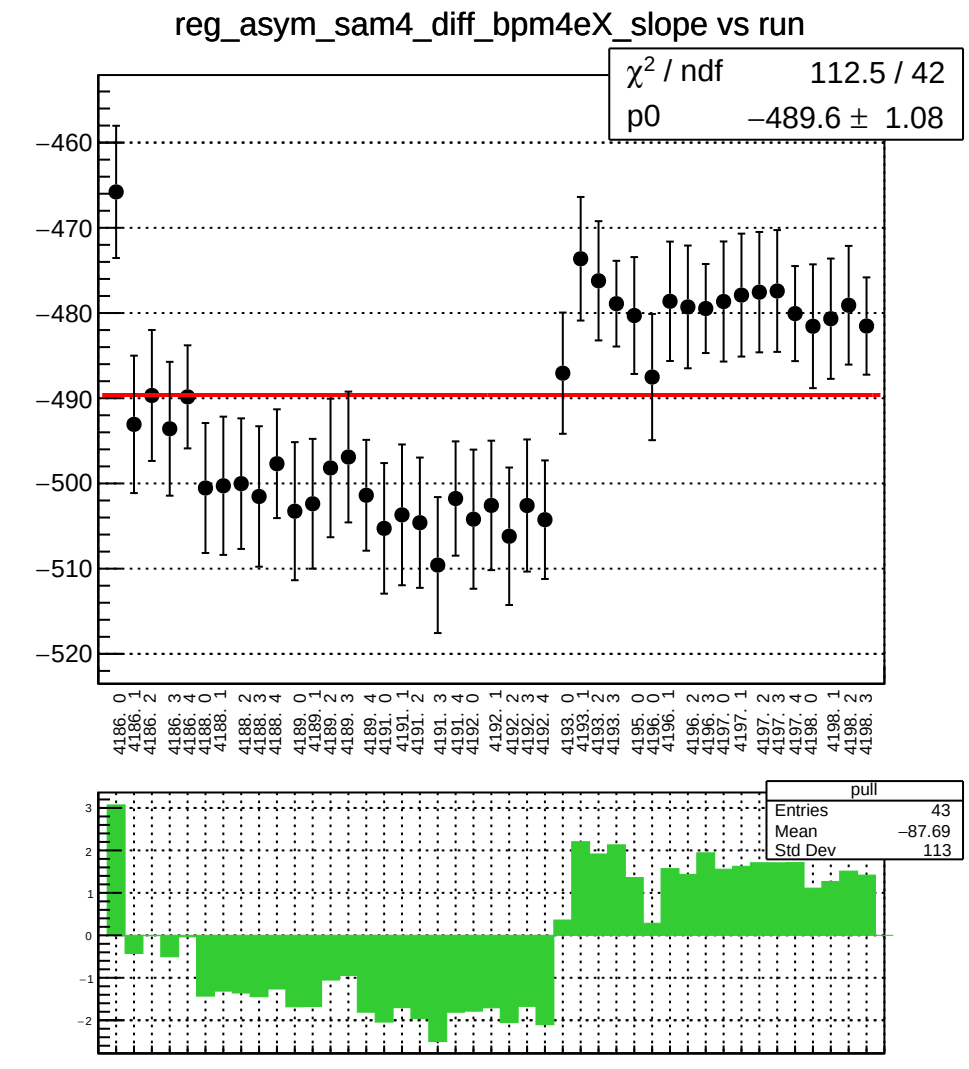

pull1D
Entries 43
Mean 0.005725
Std Dev 0.1553
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

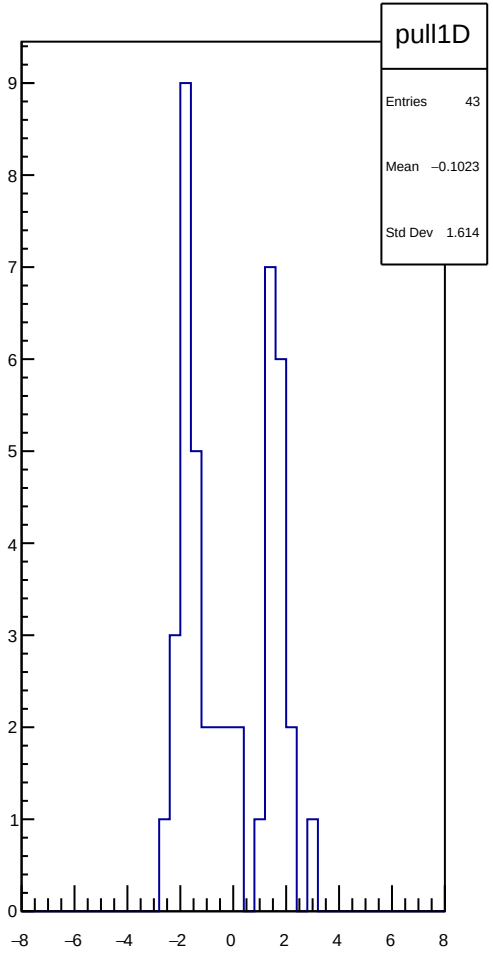

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 8.983 / 42
p0 115.8 ± 6.417
250
200
150
100
50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −11.93
Std Dev 39.33
1.5
1
0.5
0
−0.5

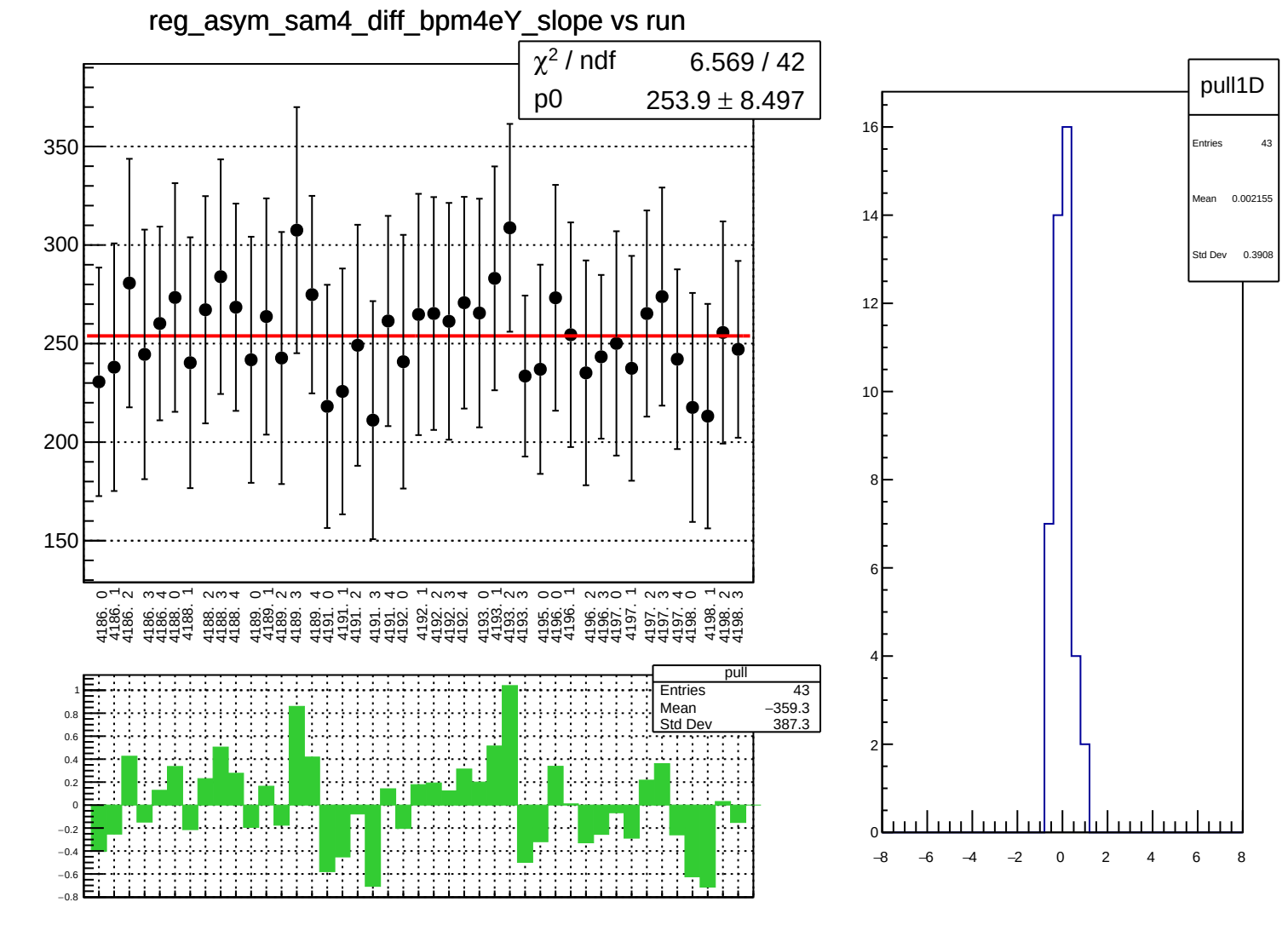

pull1D
Entries 43
Mean 0.01728
Std Dev 0.4567
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

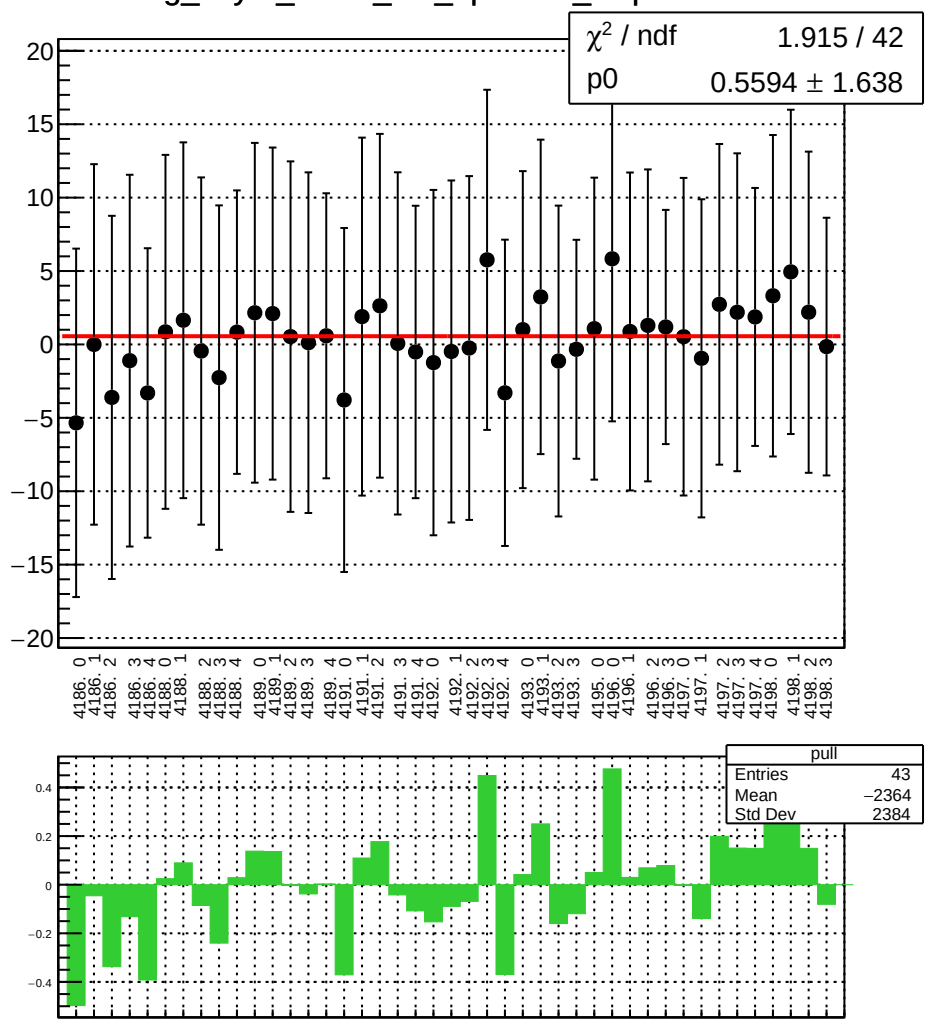

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 5.557 / 42
p0 77.01 ± 5.121
pull
Entries 43
Mean 221.4
Std Dev 189

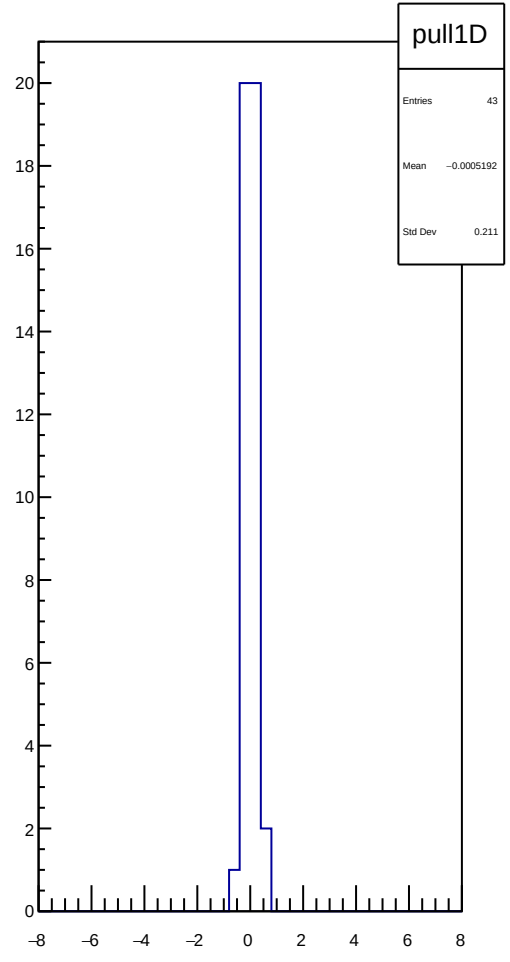

pull1D
Entries 43
Mean 0.001522
Std Dev 0.3595

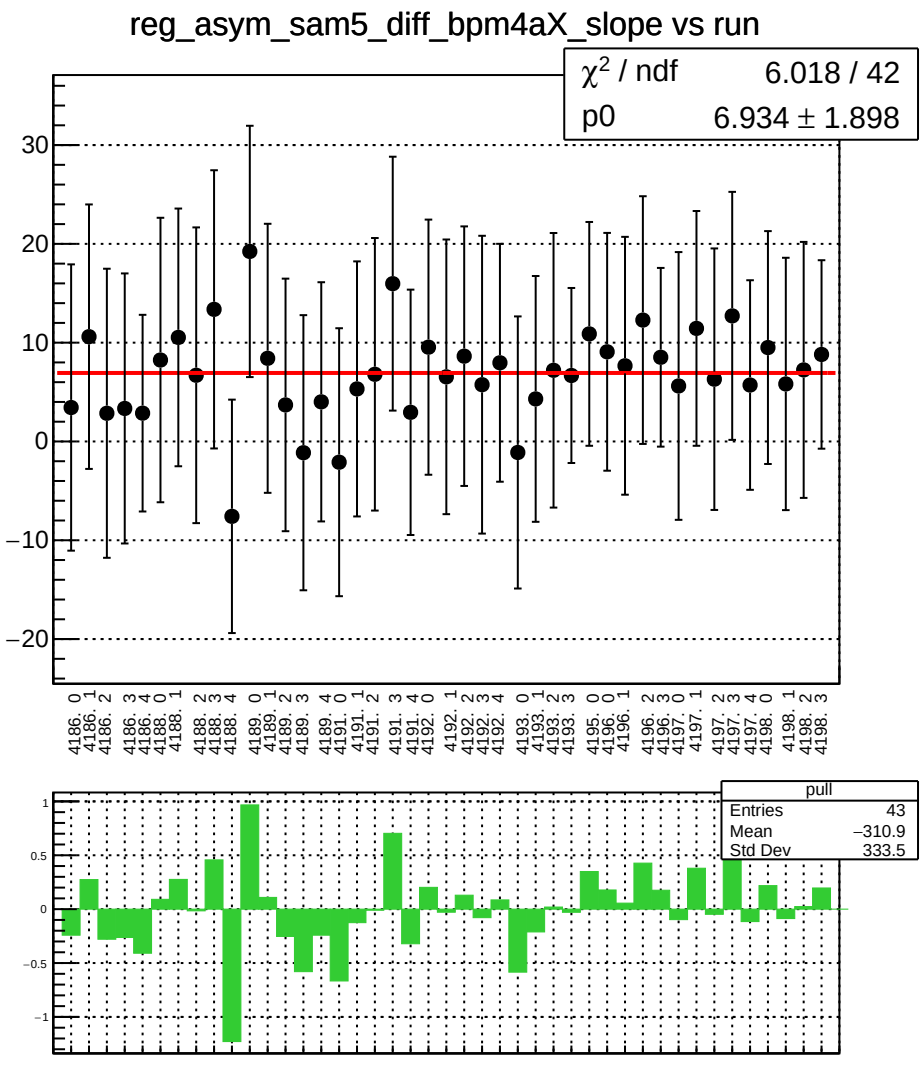

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 112.5 / 42
p0 −489.6 ± 1.08
−460
−470
−480
−490
−500
−510
−520
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −87.69
Std Dev 113
3
2
1
0
−1
−2

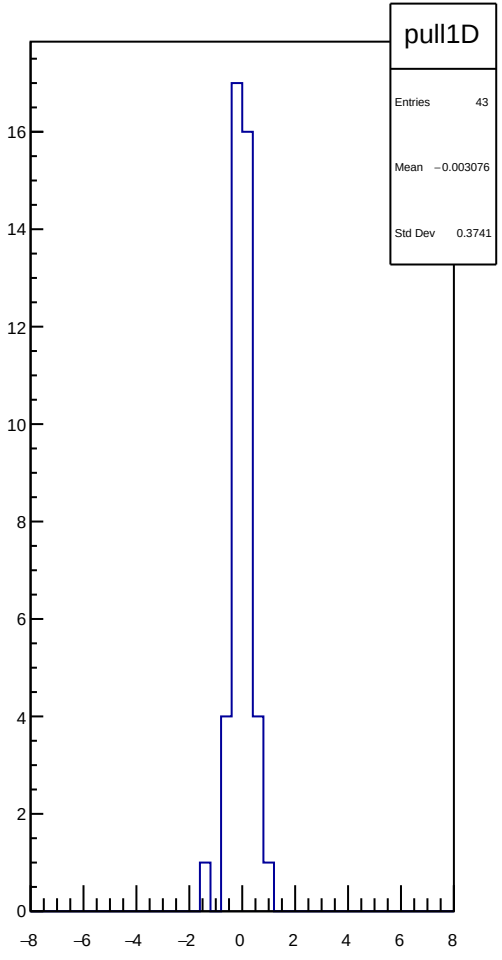

pull1D
Entries 43
Mean −0.1023
Std Dev 1.614
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

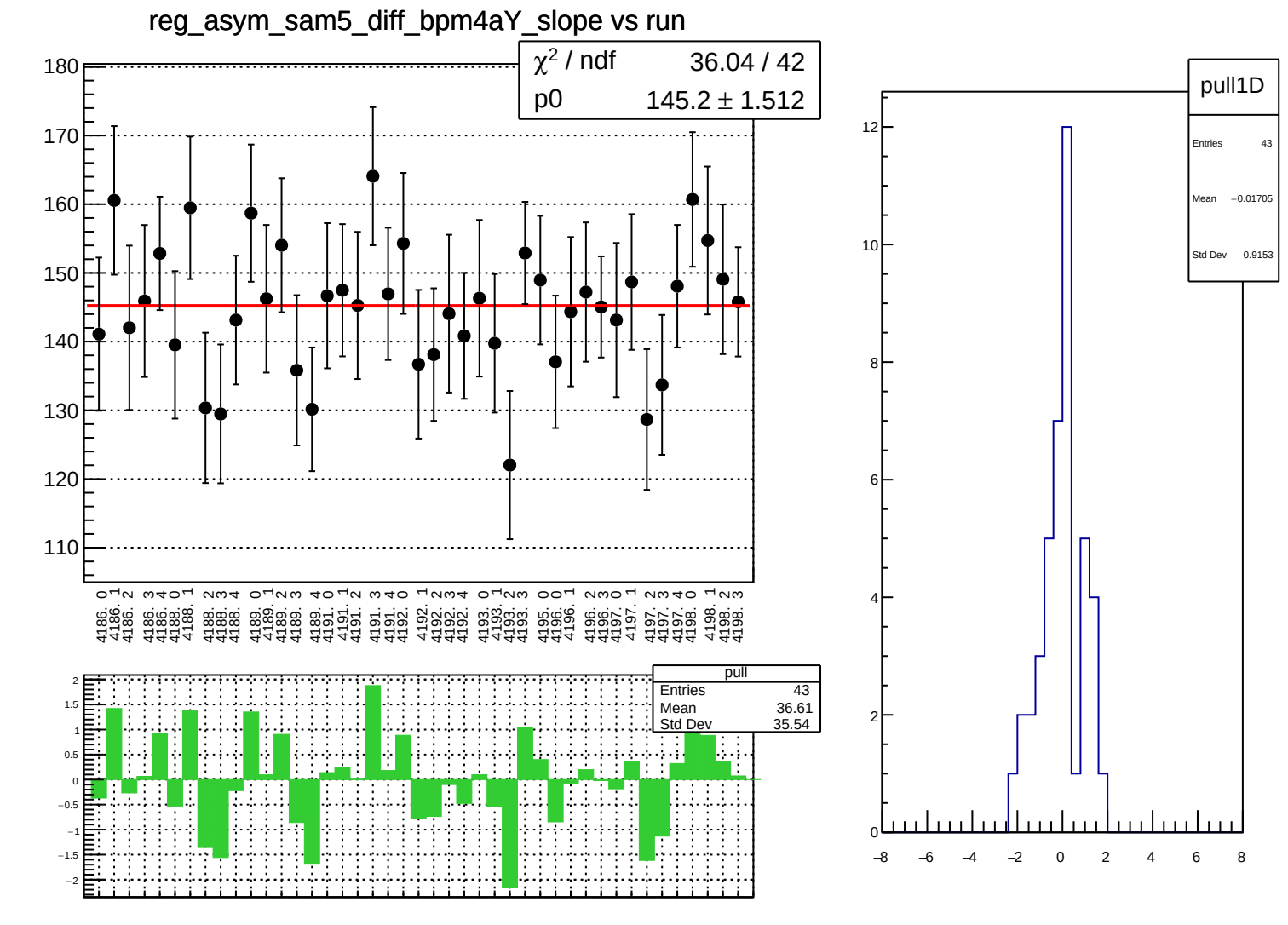

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 6.569 / 42
p0 253.9 ± 8.497
350
300
250
200
150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −359.3
Std Dev 387.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.002155
Std Dev 0.3908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

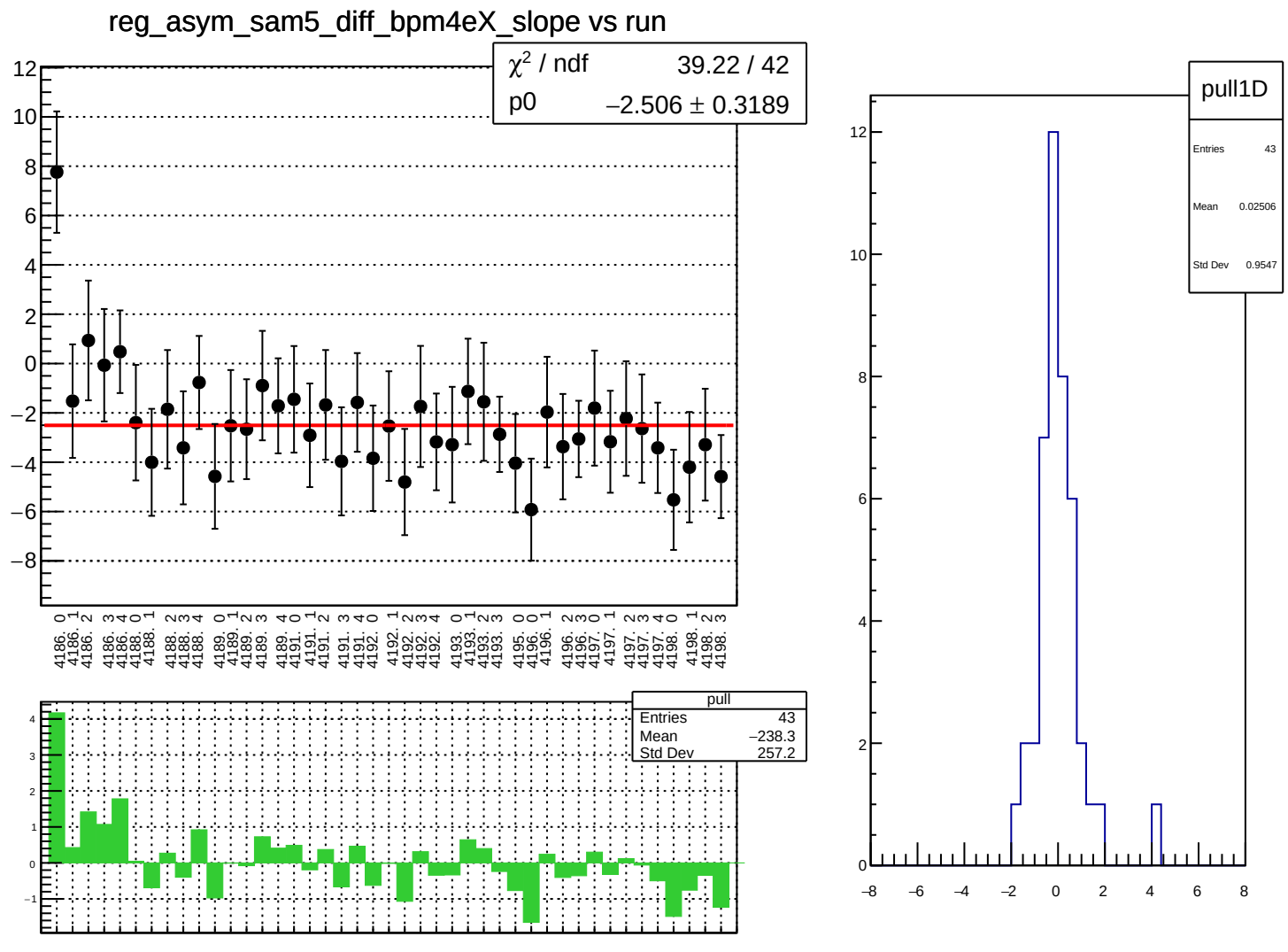

reg_asym_sam4_diff_bpm11X_slope vs run
χ^2 / ndf 1.915 / 42
p0 0.5594 ± 1.638
pull
Entries 43
Mean −2364
Std Dev 2384

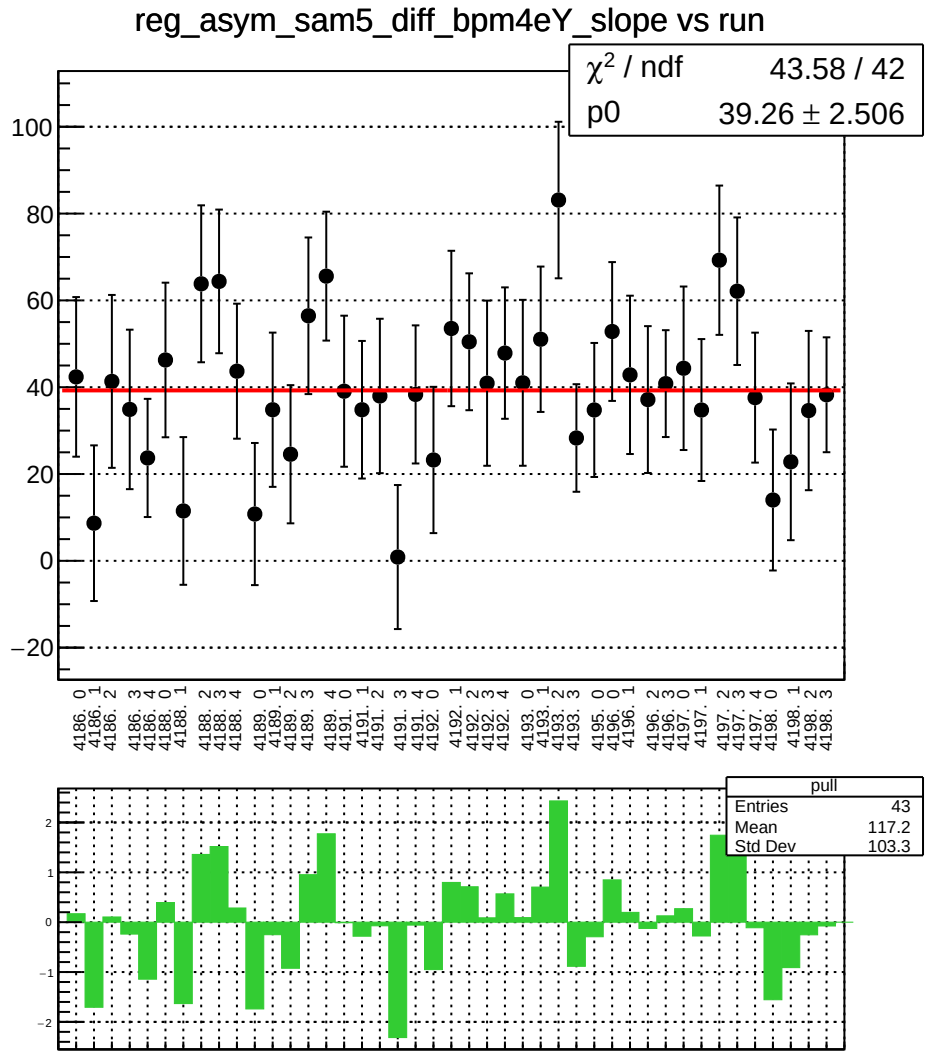

pull1D
Entries 43
Mean −0.0005192
Std Dev 0.211

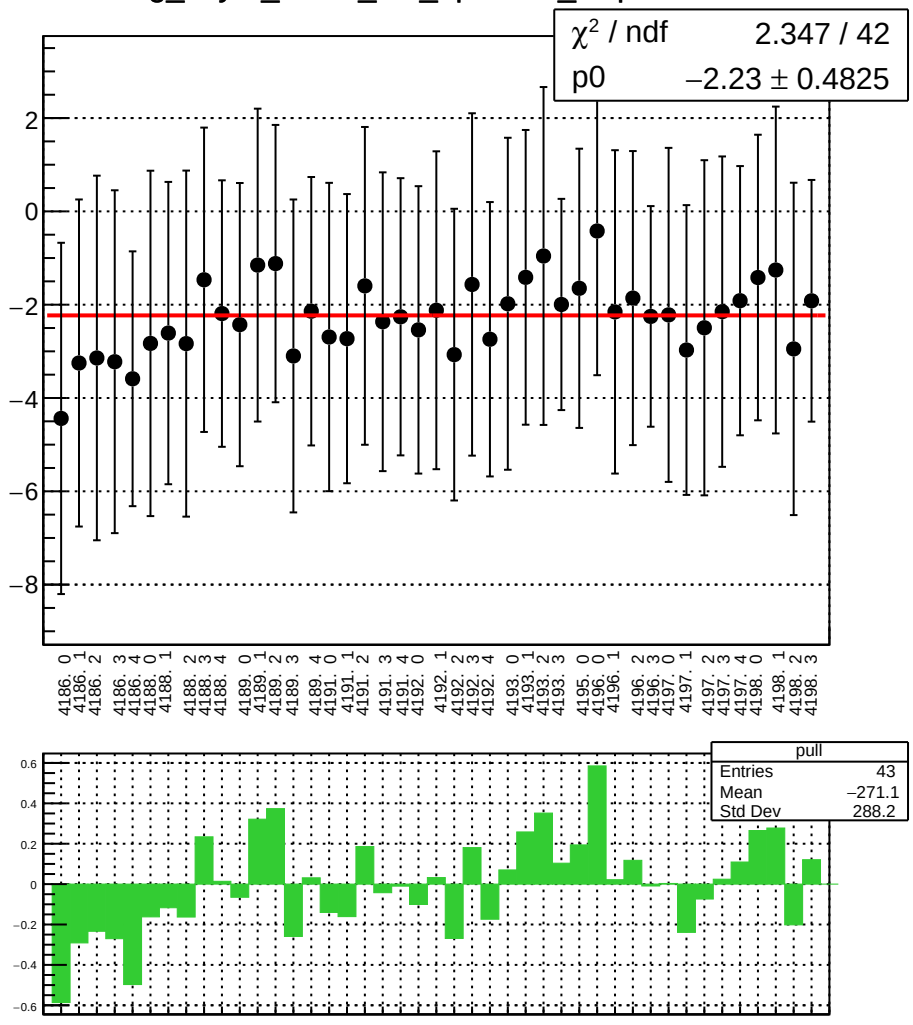

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 6.018 / 42
p0 6.934 ± 1.898
30
20
10
0
−10
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −310.9
Std Dev 333.5
1
0.5
0
−0.5
−1

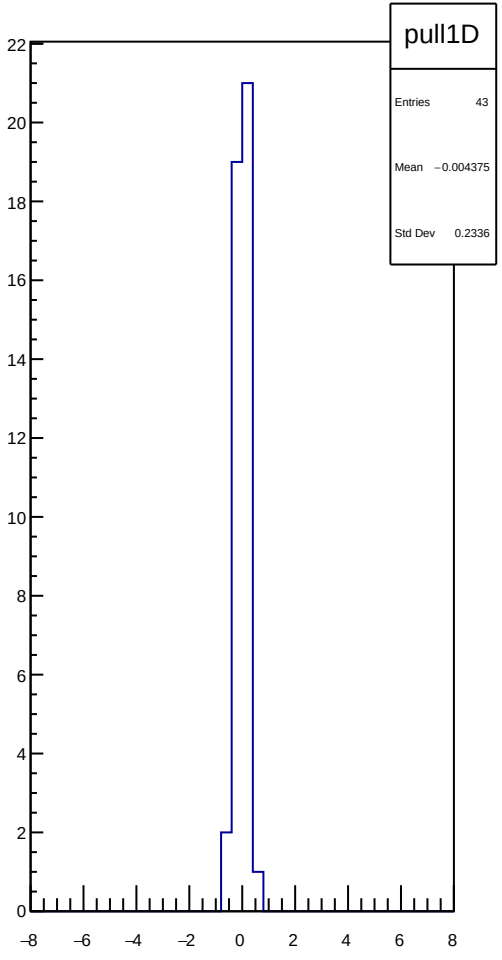

pull1D
Entries 43
Mean −0.003076
Std Dev 0.3741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

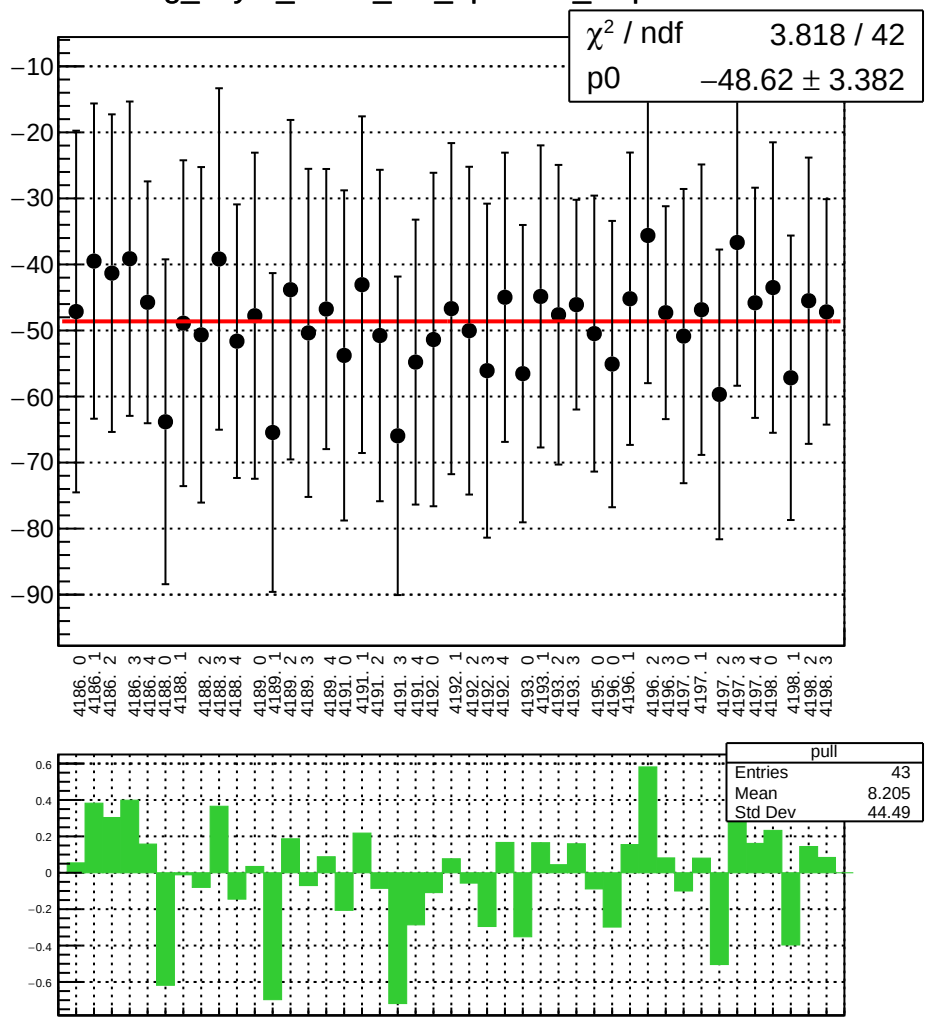

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 36.04 / 42
p0 145.2 ± 1.512
pull
Entries 43
Mean 36.61
Std Dev 35.54
pull1D
Entries 43
Mean −0.01705
Std Dev 0.9153

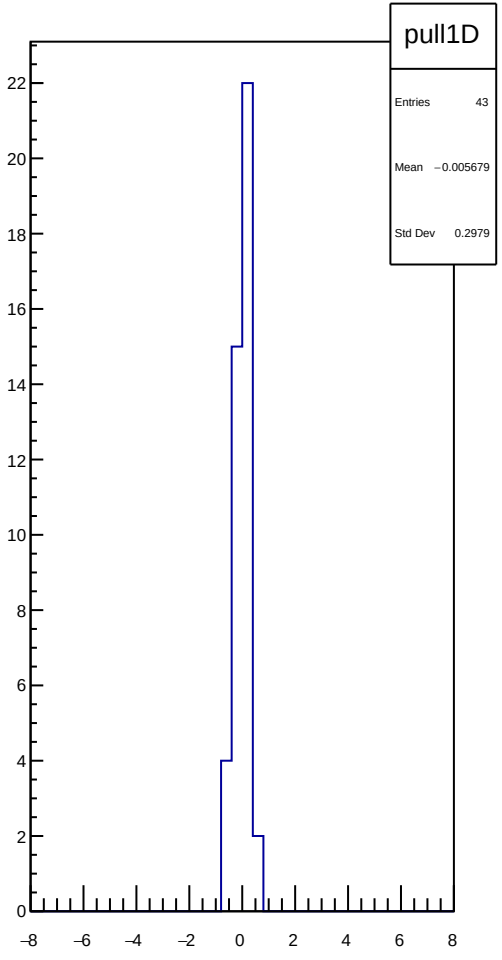

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 39.22 / 42
p0 −2.506 ± 0.3189
pull
Entries 43
Mean −238.3
Std Dev 257.2
pull1D
Entries 43
Mean 0.02506
Std Dev 0.9547

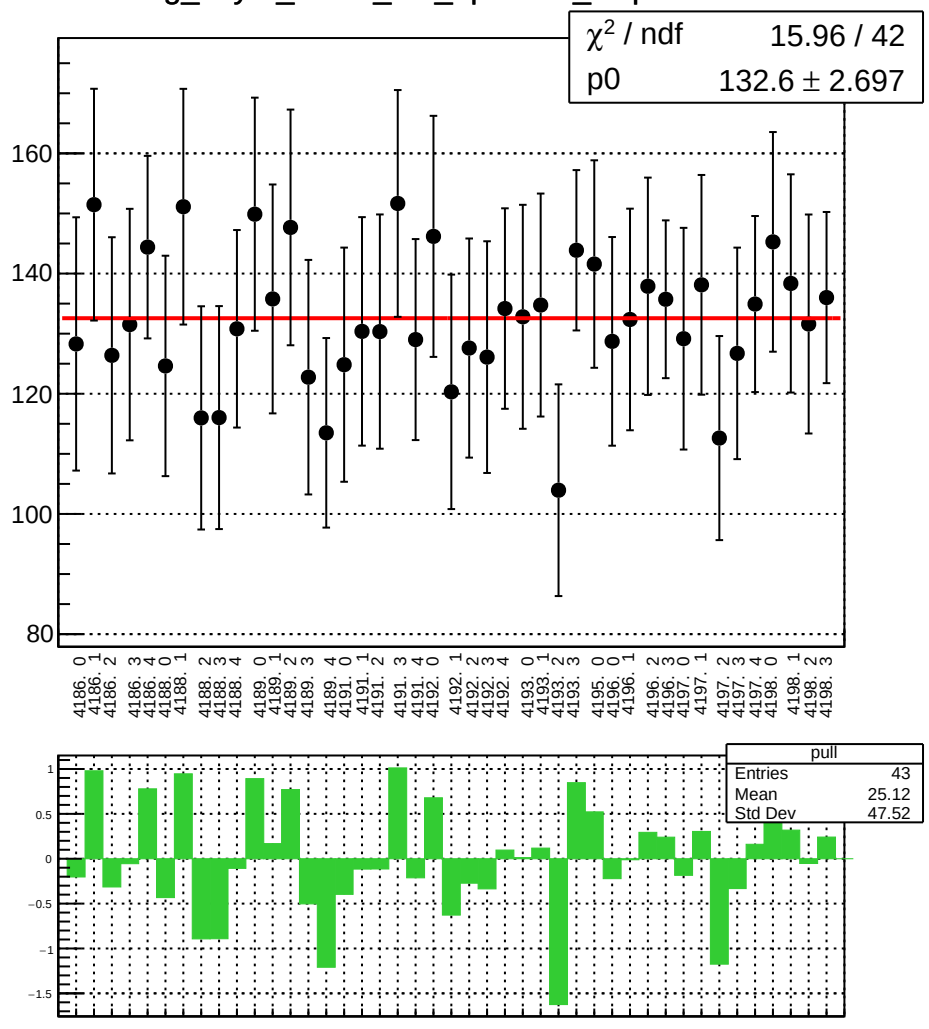

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 43.58 / 42
p0 39.26 ± 2.506
100
80
60
40
20
0
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 117.2
Std Dev 103.3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0155
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

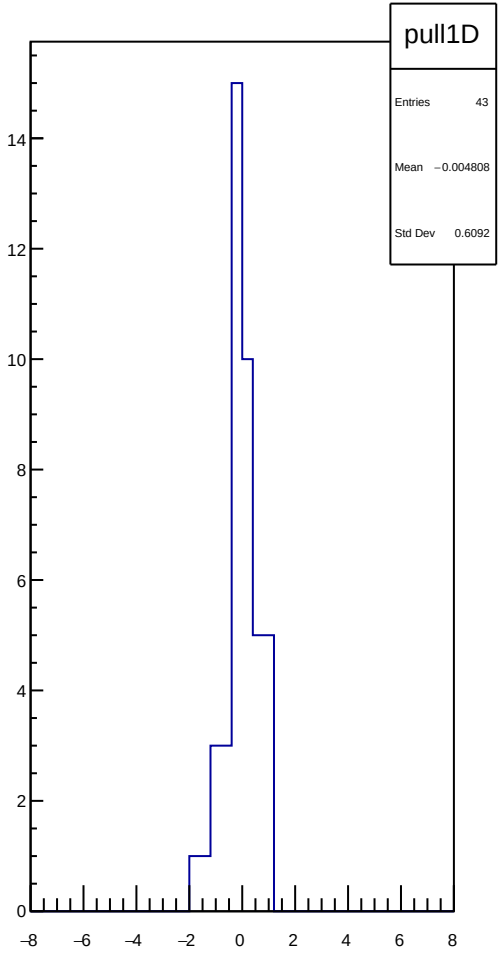

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 2.347 / 42
p0 −2.23 ± 0.4825
pull
Entries 43
Mean −271.1
Std Dev 288.2

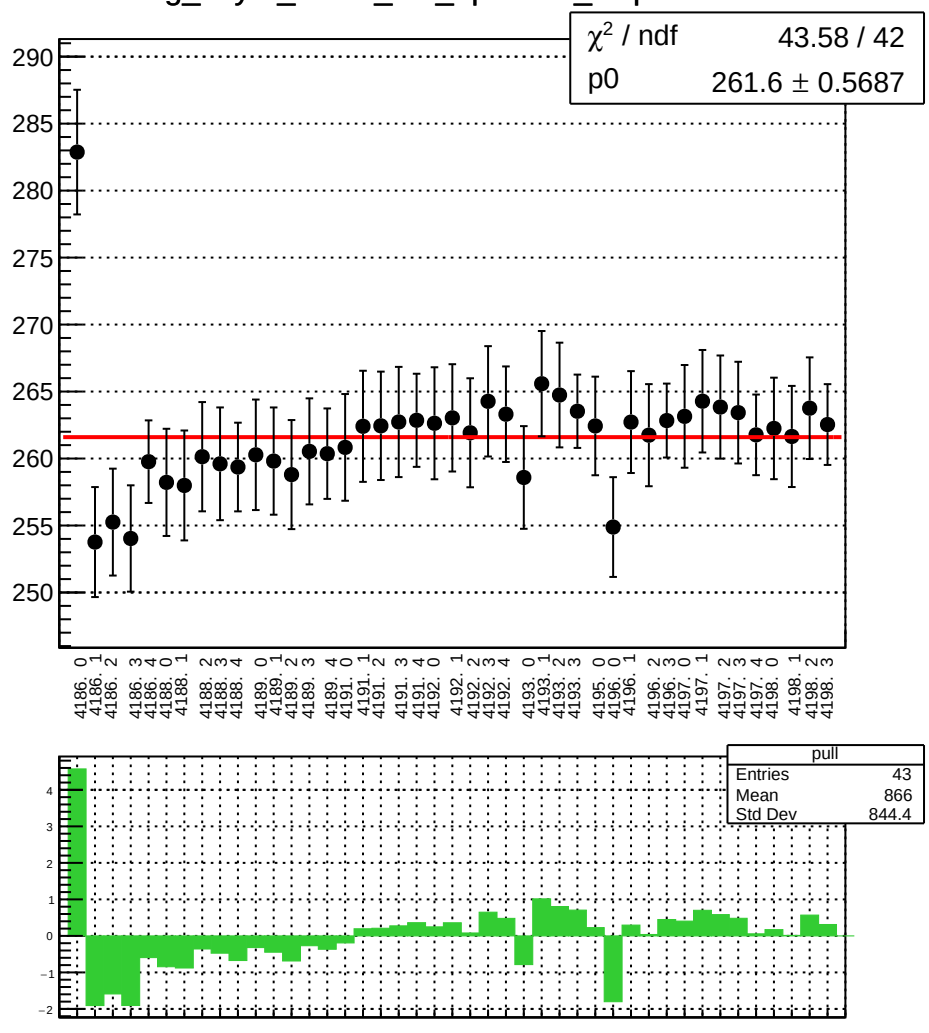

pull1D
Entries 43
Mean −0.004375
Std Dev 0.2336

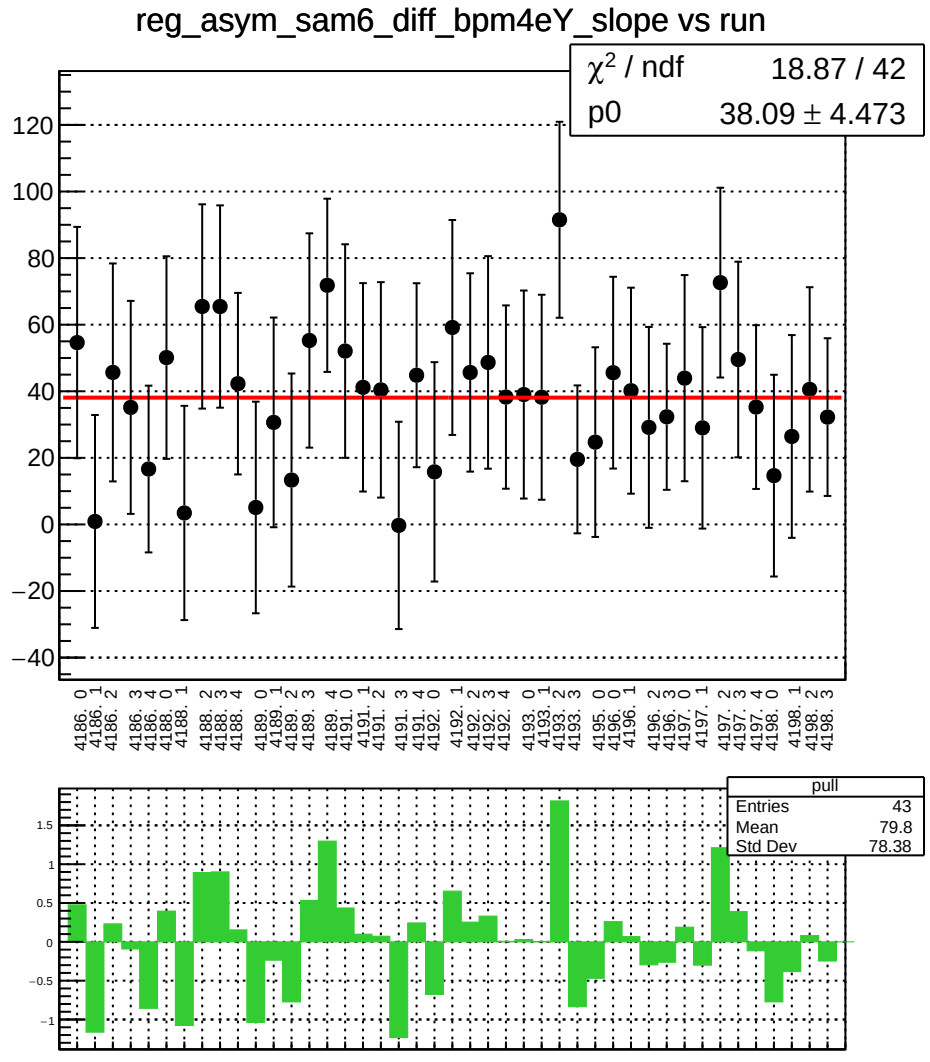

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 3.818 / 42
p0 −48.62 ± 3.382
pull
Entries 43
Mean 8.205
Std Dev 44.49

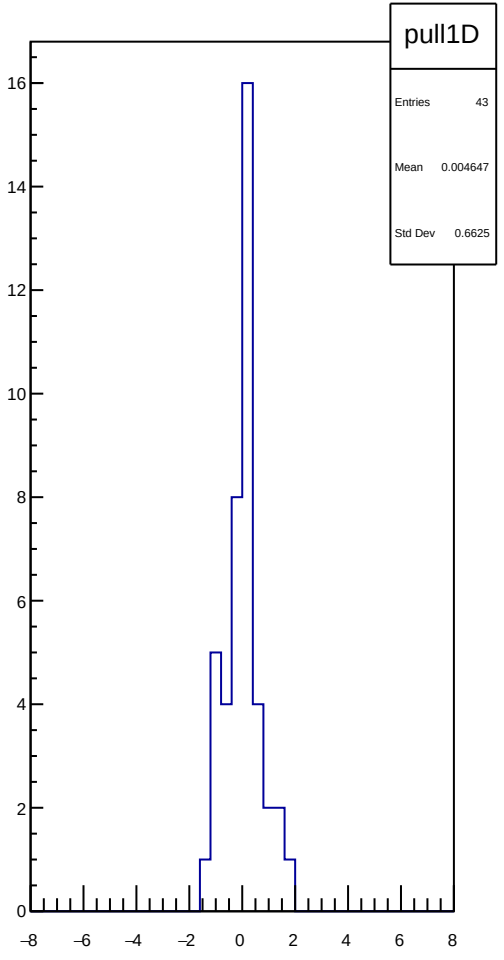

pull1D
Entries 43
Mean −0.005679
Std Dev 0.2979

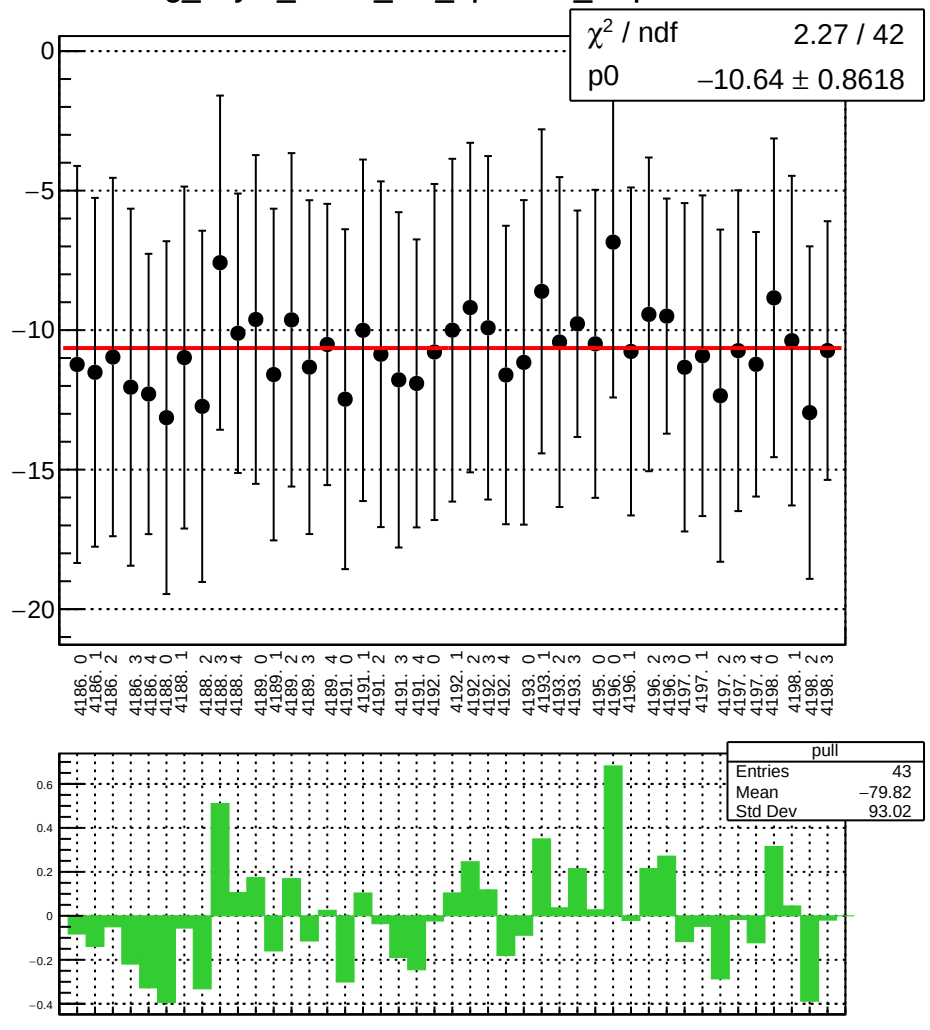

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 15.96 / 42
p0 132.6 ± 2.697
160
140
120
100
80
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 25.12
Std Dev 47.52
1
0.5
0
−0.5
−1
−1.5

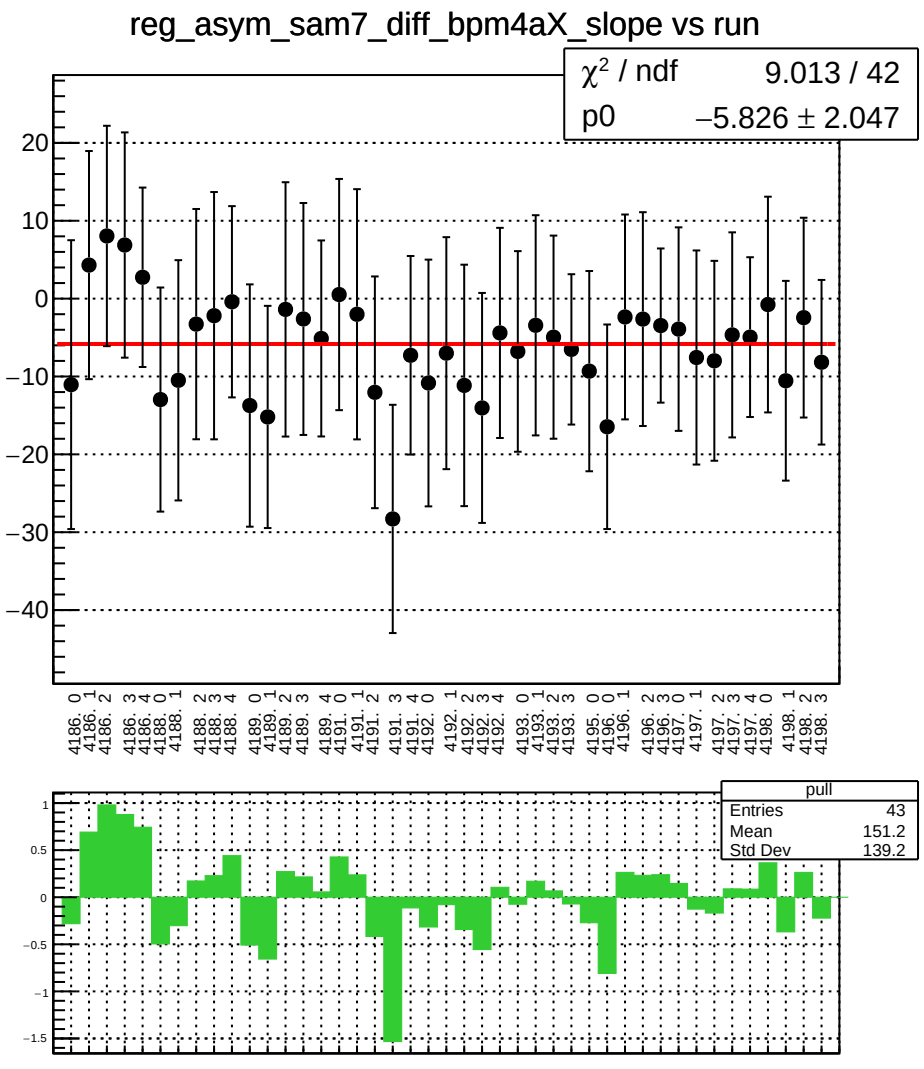

pull1D
Entries 43
Mean −0.004808
Std Dev 0.6092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

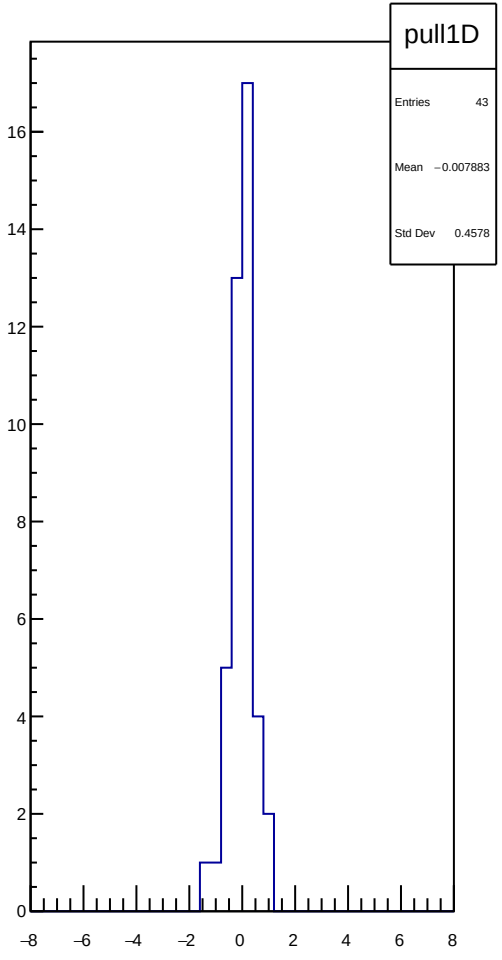

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 43.58 / 42
p0 261.6 ± 0.5687
290
285
280
275
270
265
260
255
250
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 866
Std Dev 844.4
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003903
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

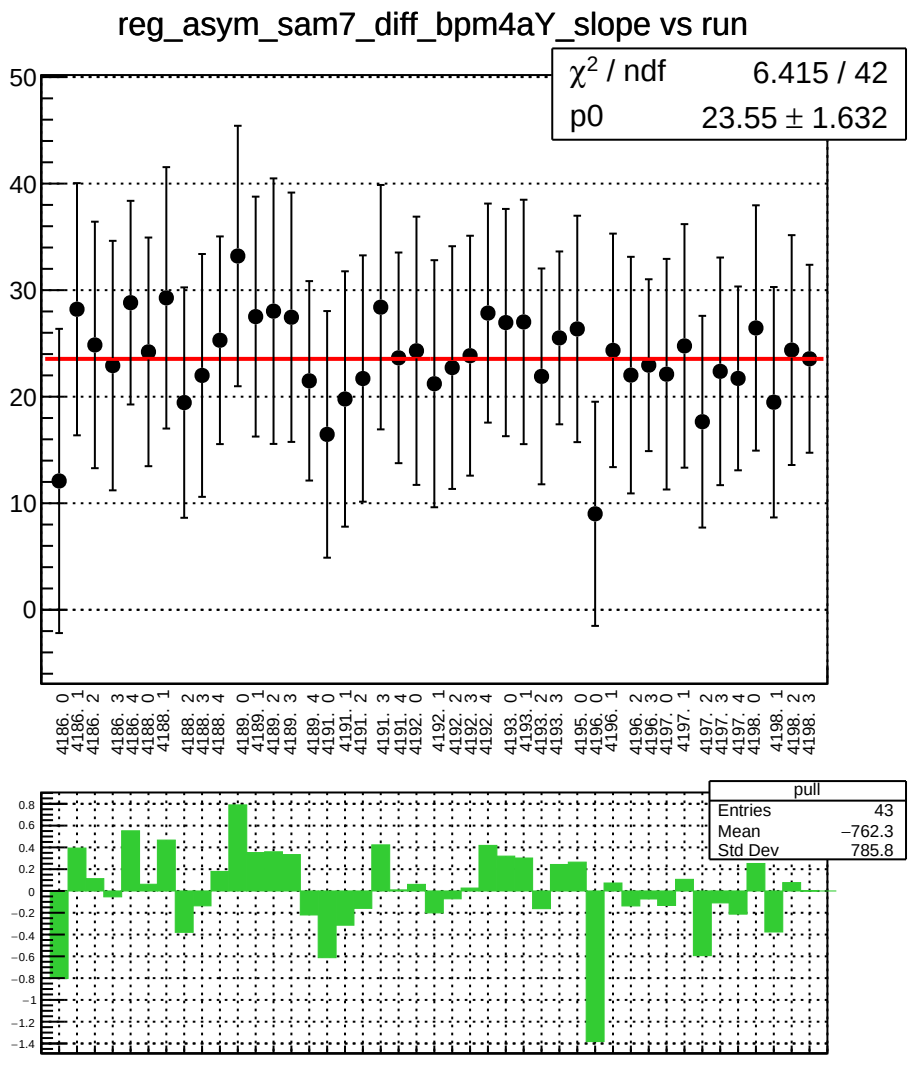

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 18.87 / 42
p0 38.09 ± 4.473
pull
Entries 43
Mean 79.8
Std Dev 78.38

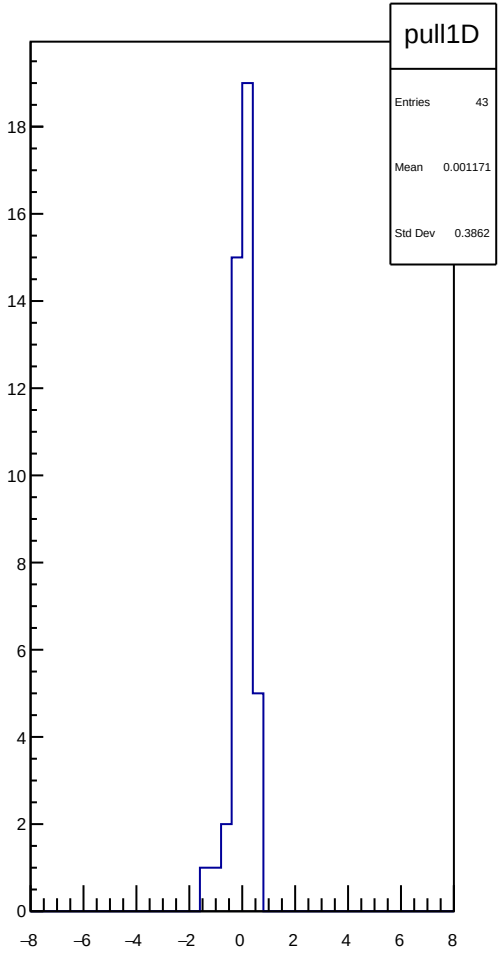

pull1D
Entries 43
Mean 0.004647
Std Dev 0.6625

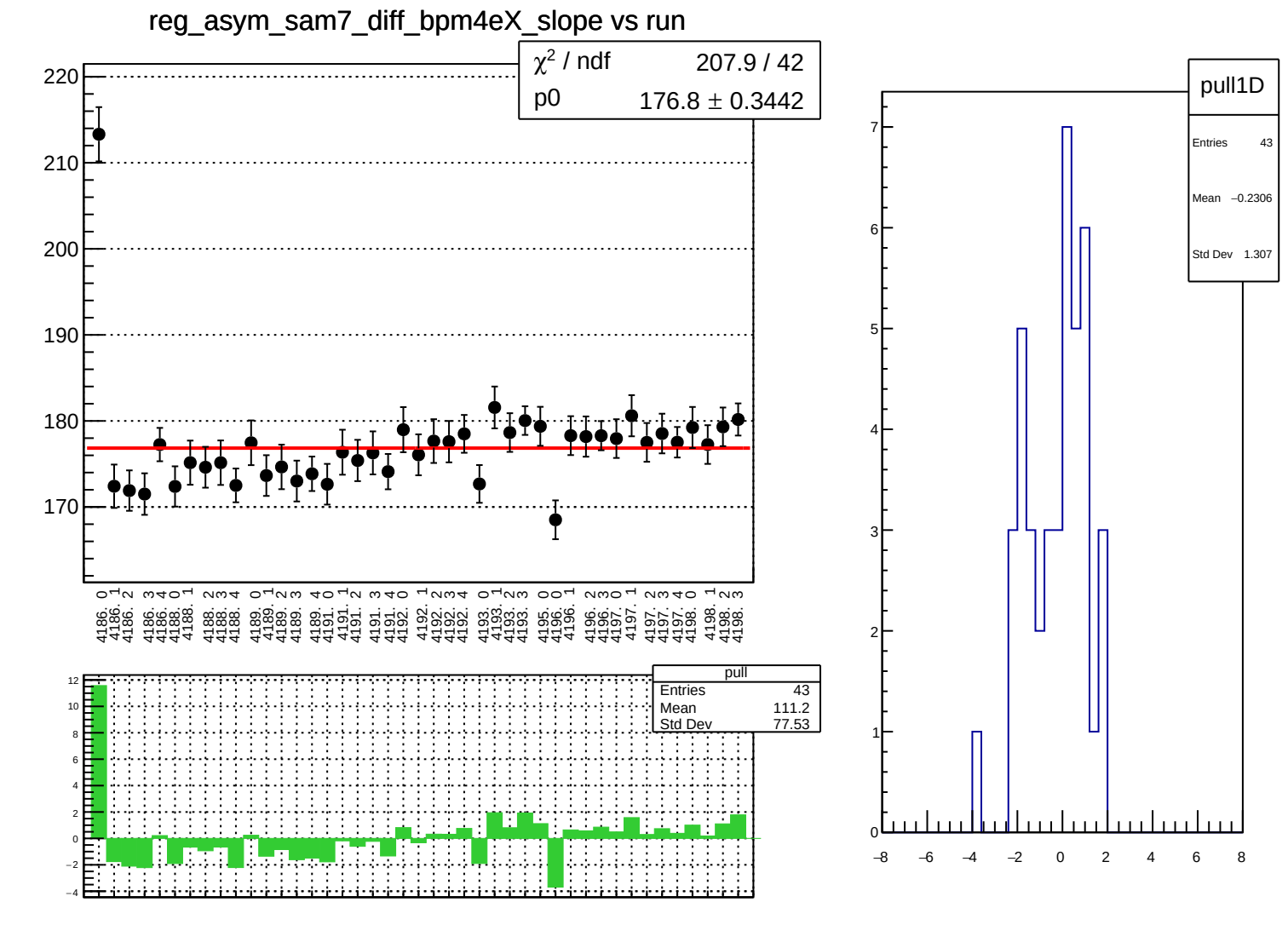

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 2.27 / 42
p0 −10.64 ± 0.8618
0
−5
−10
−15
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −79.82
Std Dev 93.02
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.005651
Std Dev 0.2297
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

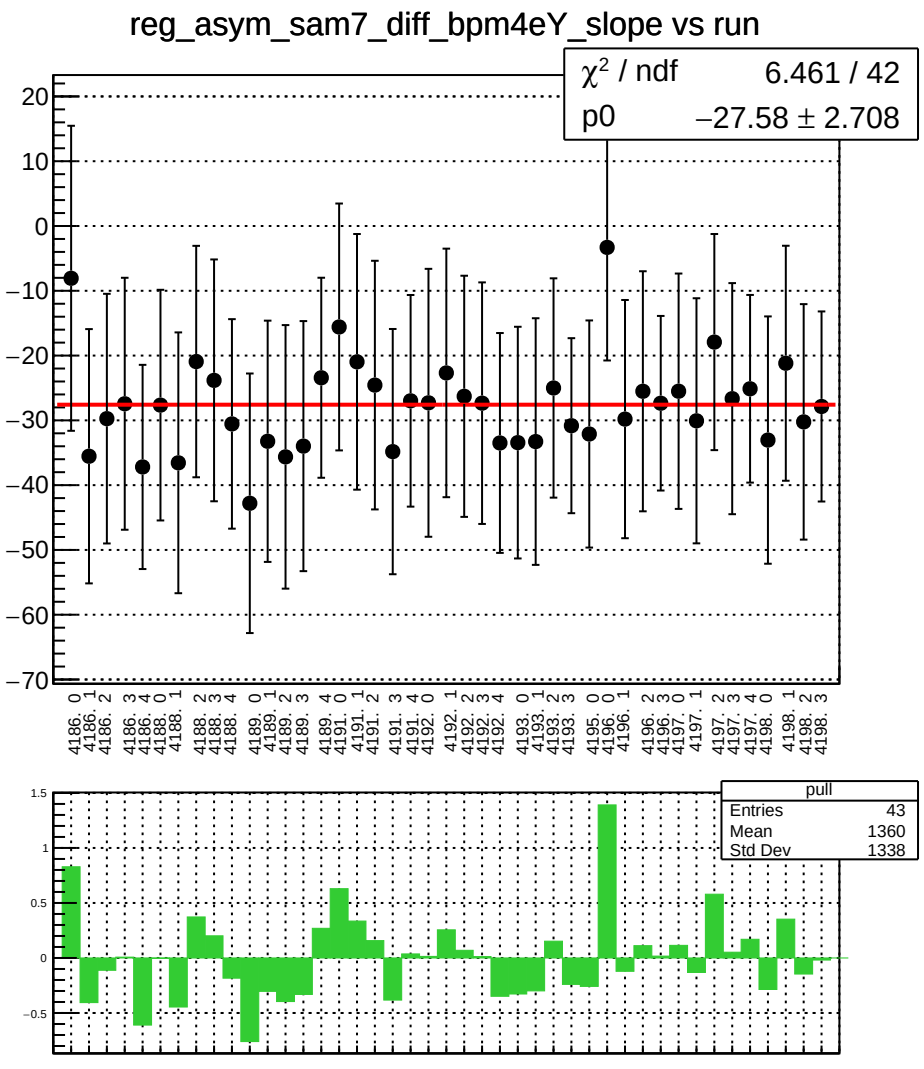

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 9.013 / 42
p0 −5.826 ± 2.047
pull
Entries 43
Mean 151.2
Std Dev 139.2

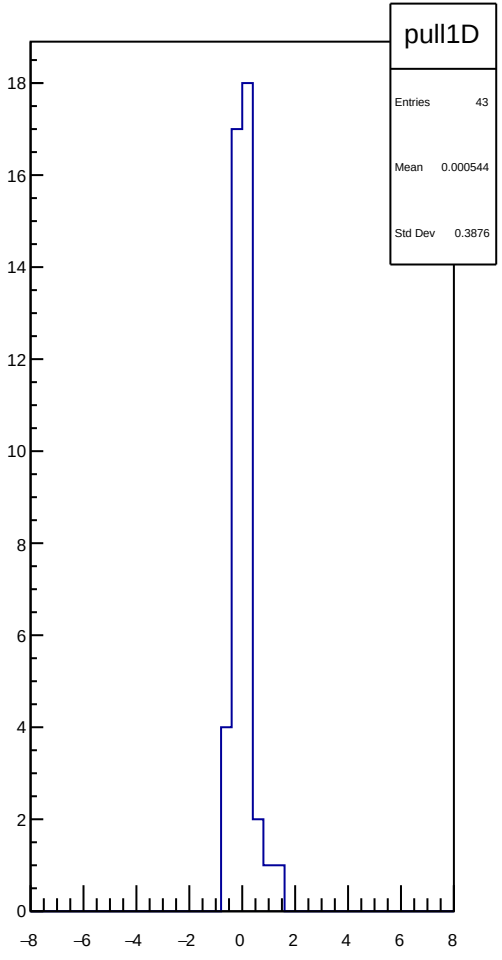

pull1D
Entries 43
Mean −0.007883
Std Dev 0.4578

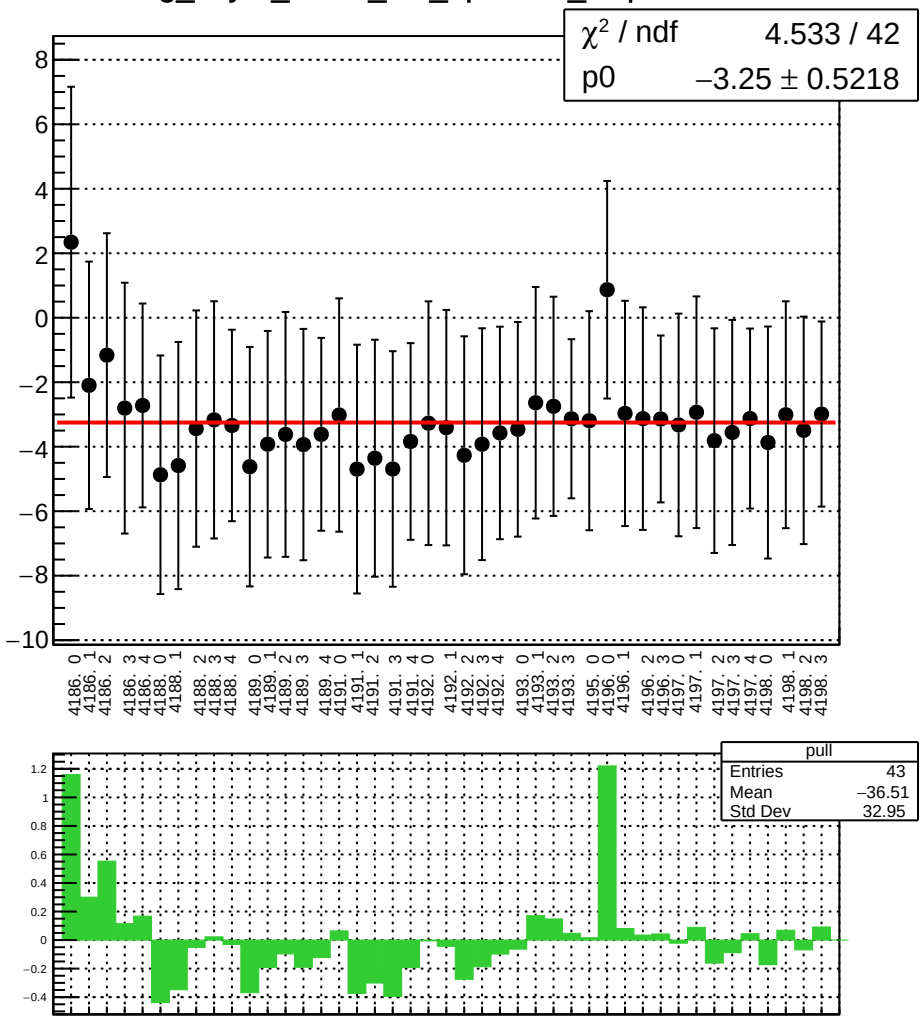

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.415 / 42
p0 23.55 ± 1.632
pull
Entries 43
Mean −762.3
Std Dev 785.8

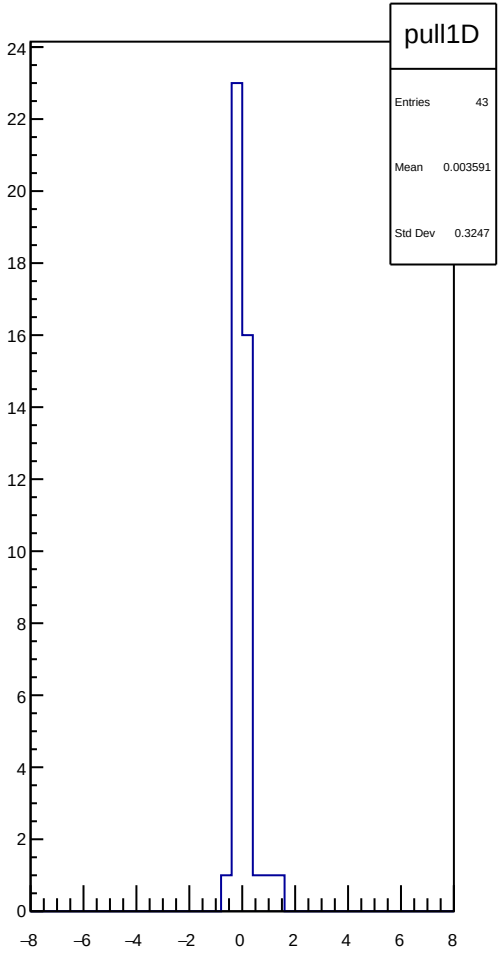

pull1D
Entries 43
Mean 0.001171
Std Dev 0.3862

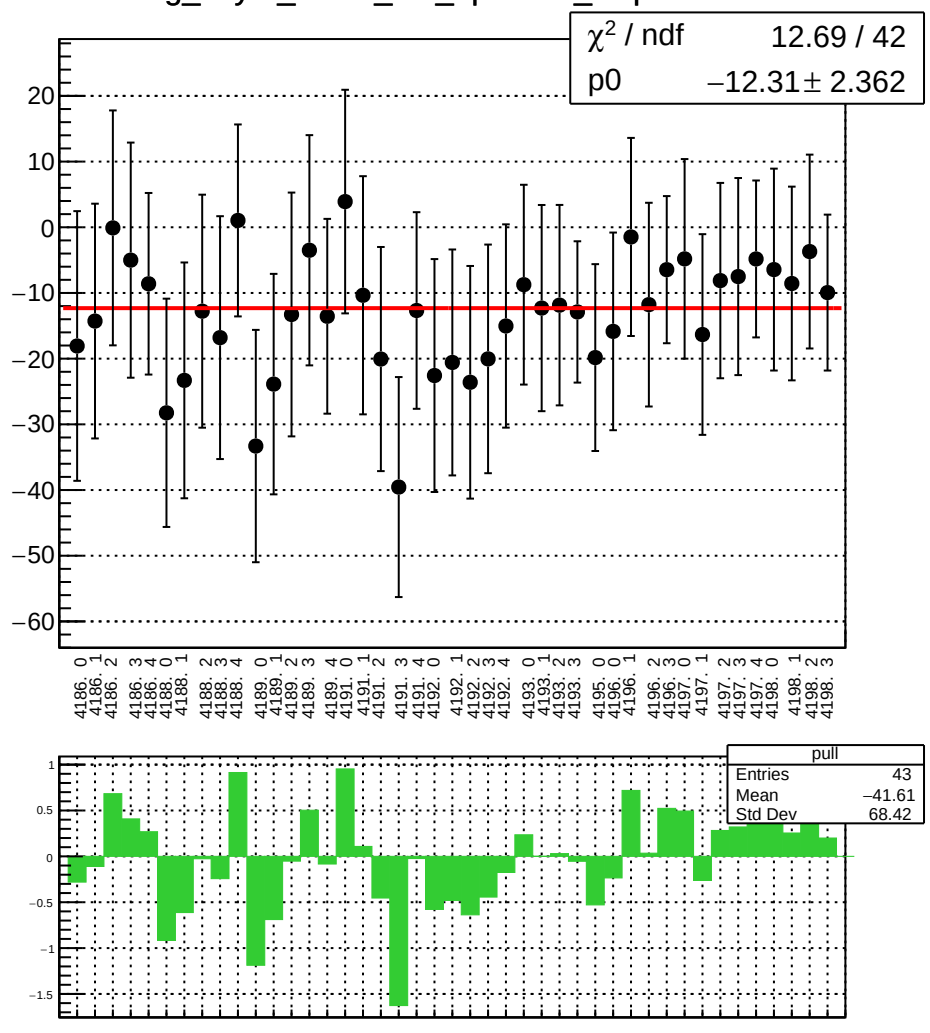

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 207.9 / 42
p0 176.8 ± 0.3442
220
210
200
190
180
170
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 111.2
Std Dev 77.53
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 43
Mean −0.2306
Std Dev 1.307
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

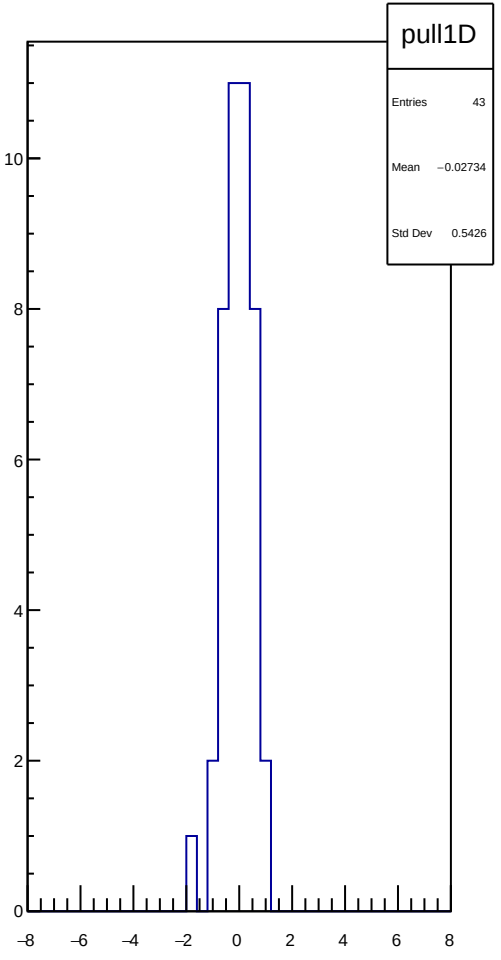

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.461 / 42
p0 −27.58 ± 2.708
pull
Entries 43
Mean 1360
Std Dev 1338

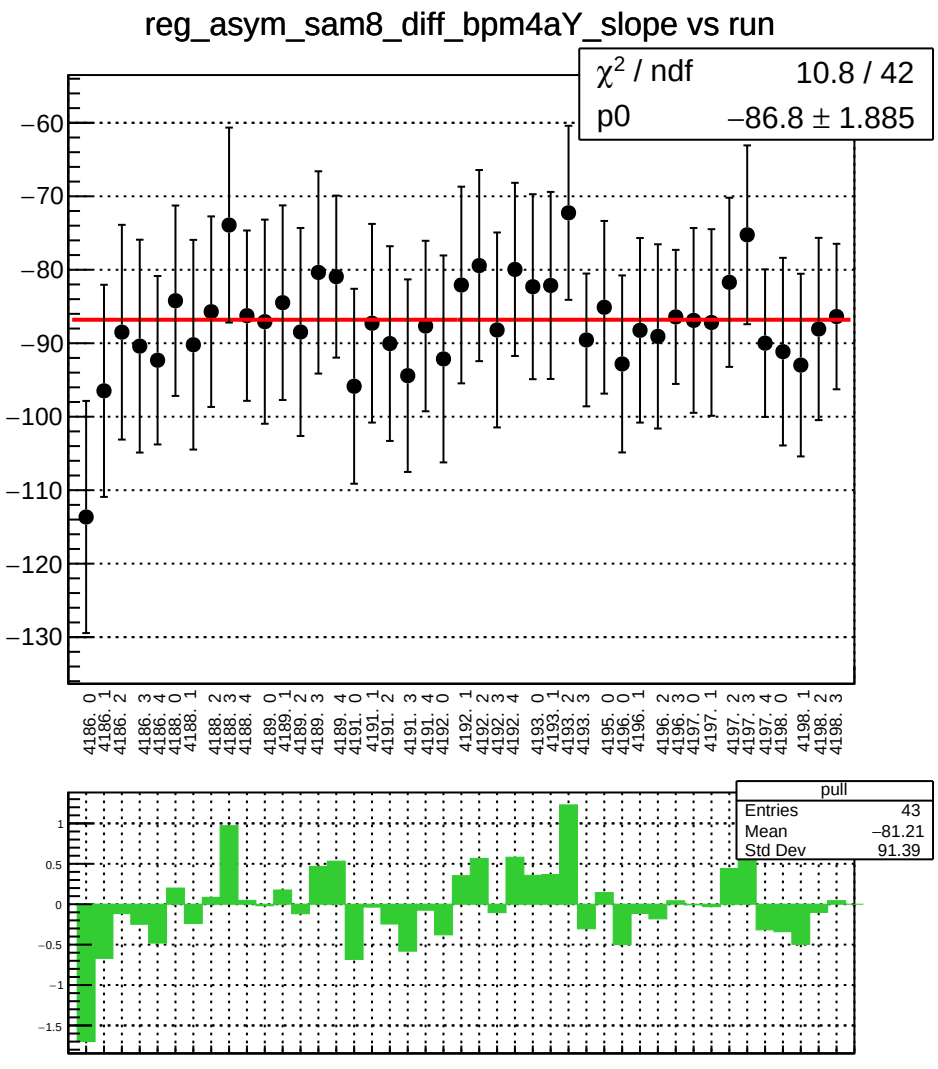

pull1D
Entries 43
Mean 0.000544
Std Dev 0.3876

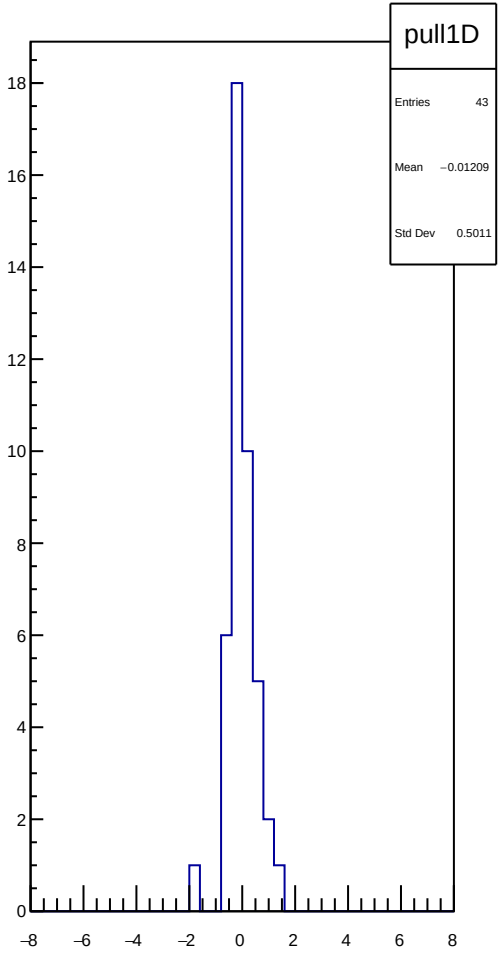

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 4.533 / 42
p0 −3.25 ± 0.5218
pull
Entries 43
Mean −36.51
Std Dev 32.95

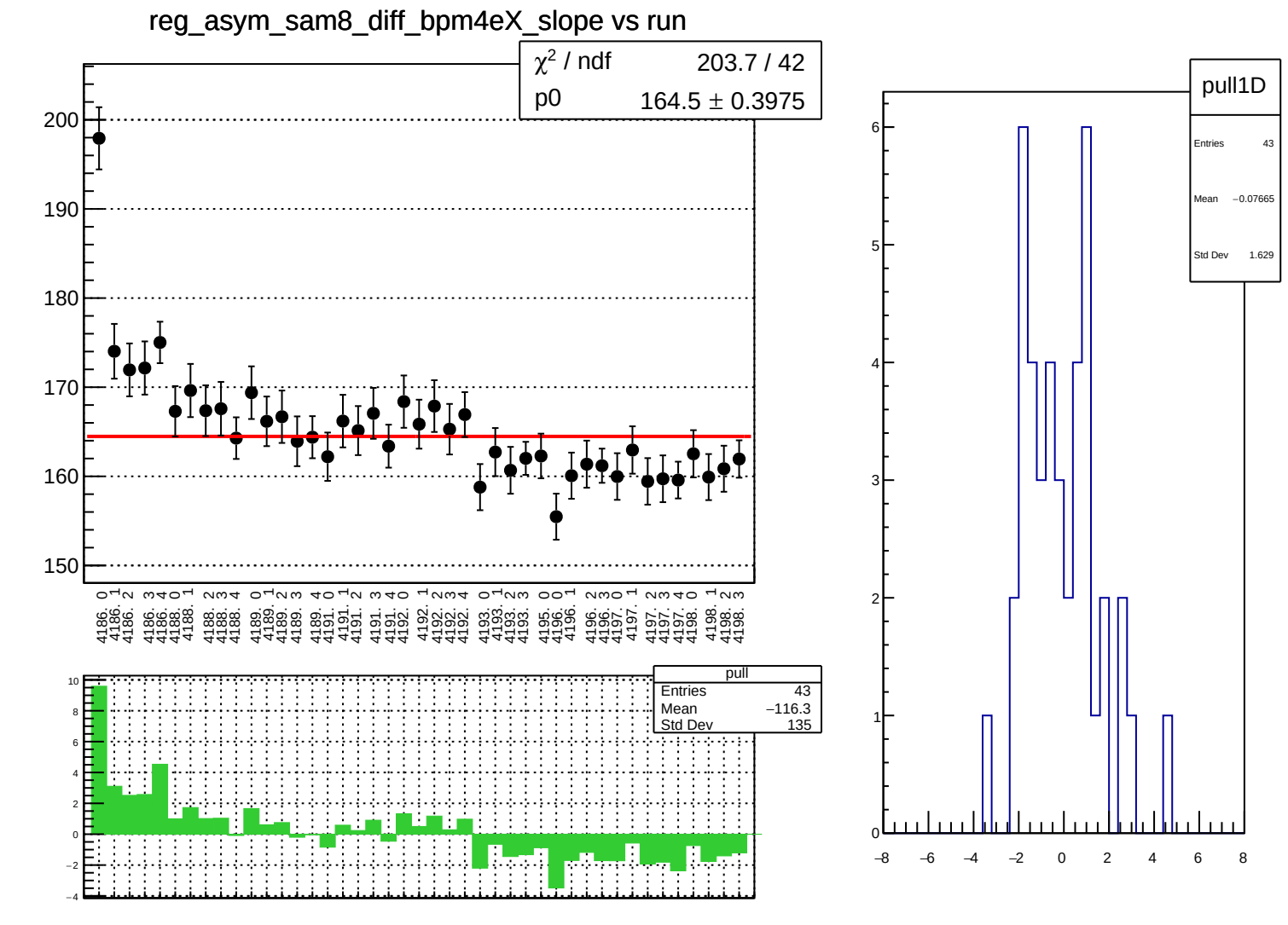

pull1D
Entries 43
Mean 0.003591
Std Dev 0.3247

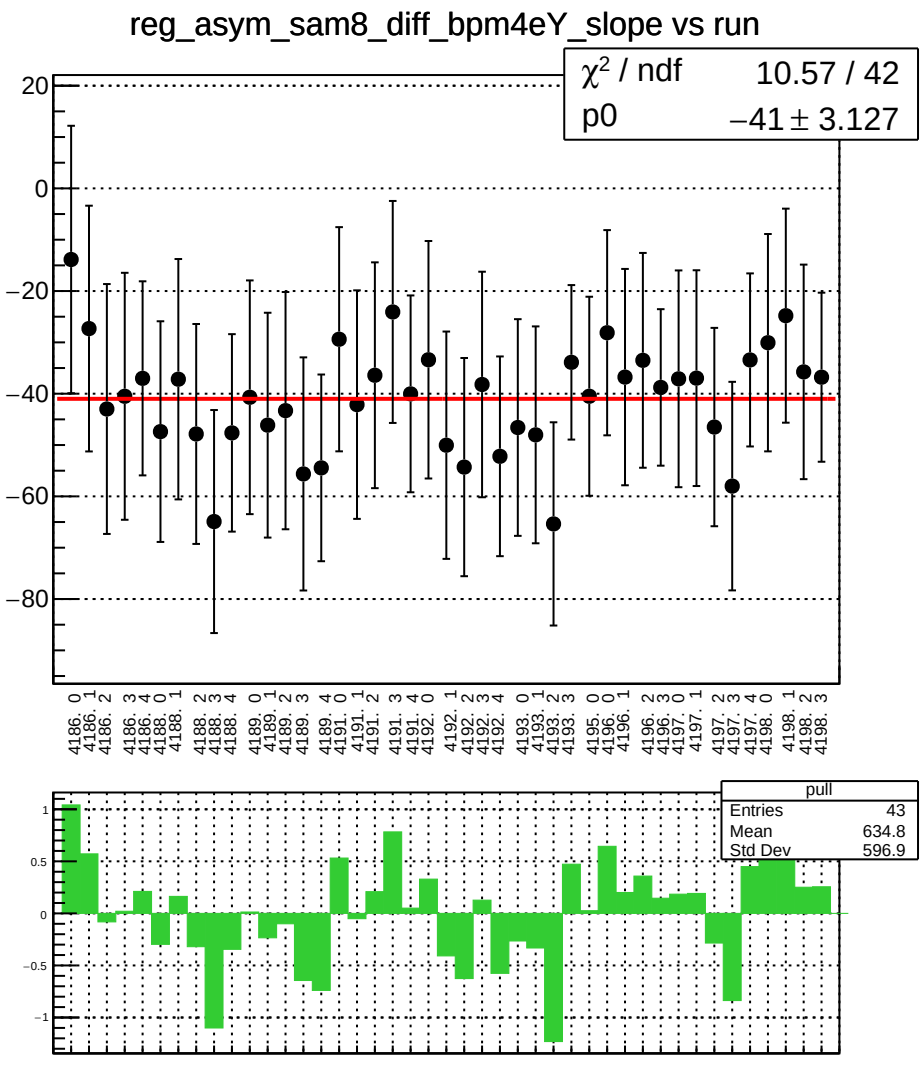

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 12.69 / 42
p0 −12.31 ± 2.362
pull
Entries 43
Mean −41.61
Std Dev 68.42

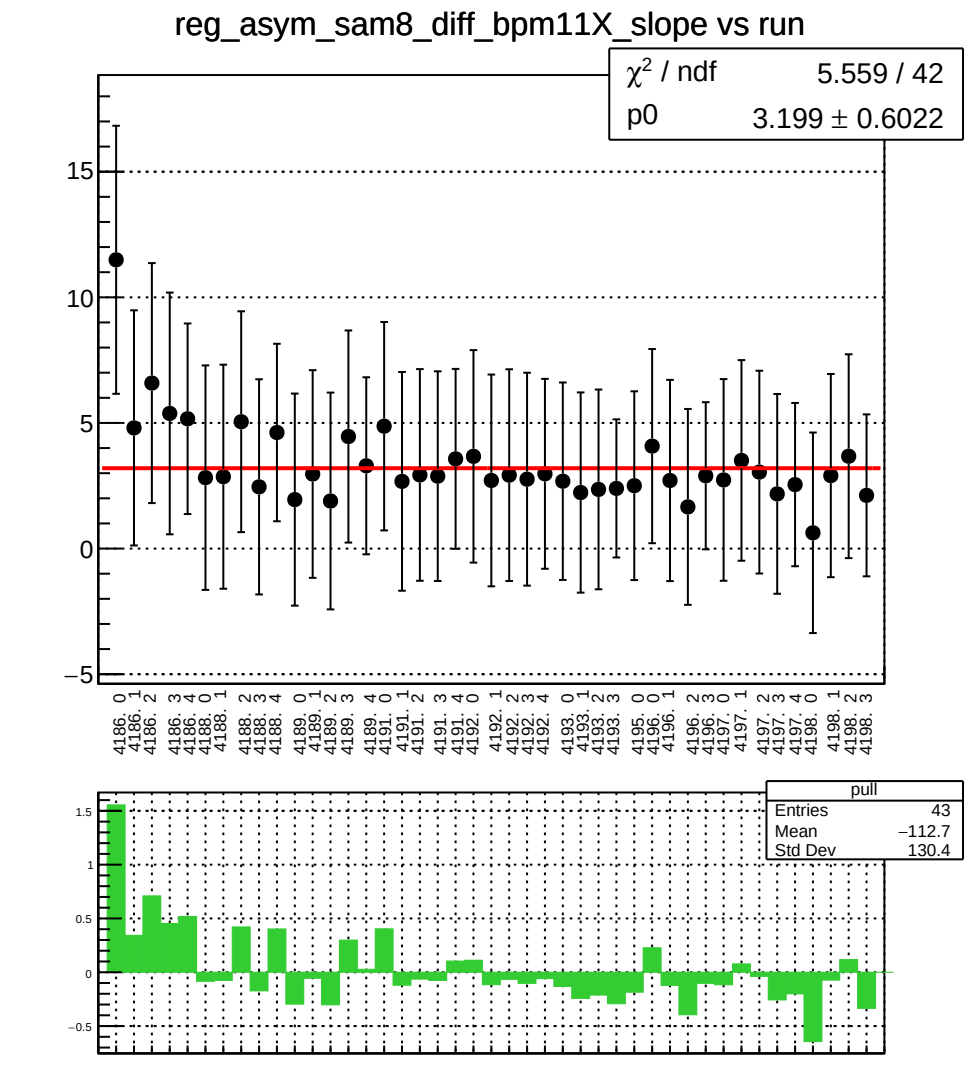

pull1D
Entries 43
Mean −0.02734
Std Dev 0.5426

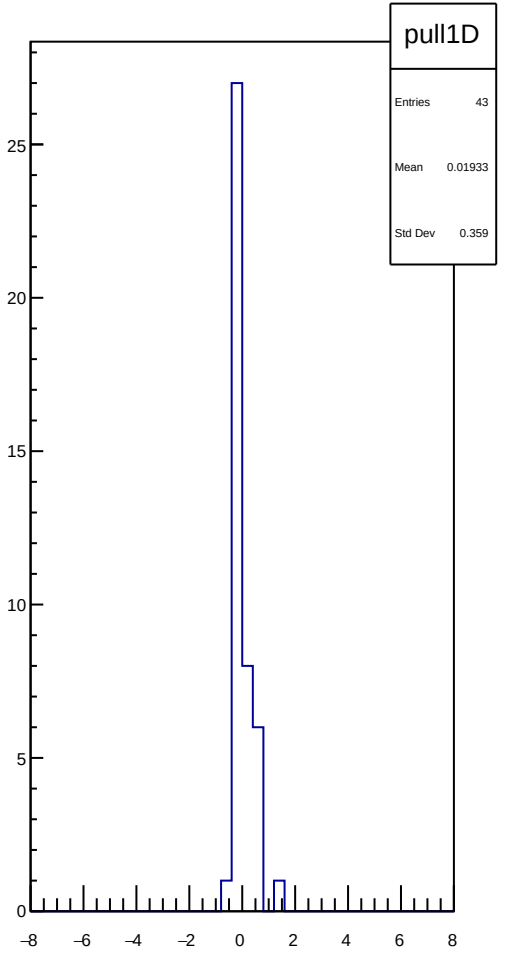

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 10.8 / 42
p0 −86.8 ± 1.885
pull
Entries 43
Mean −81.21
Std Dev 91.39

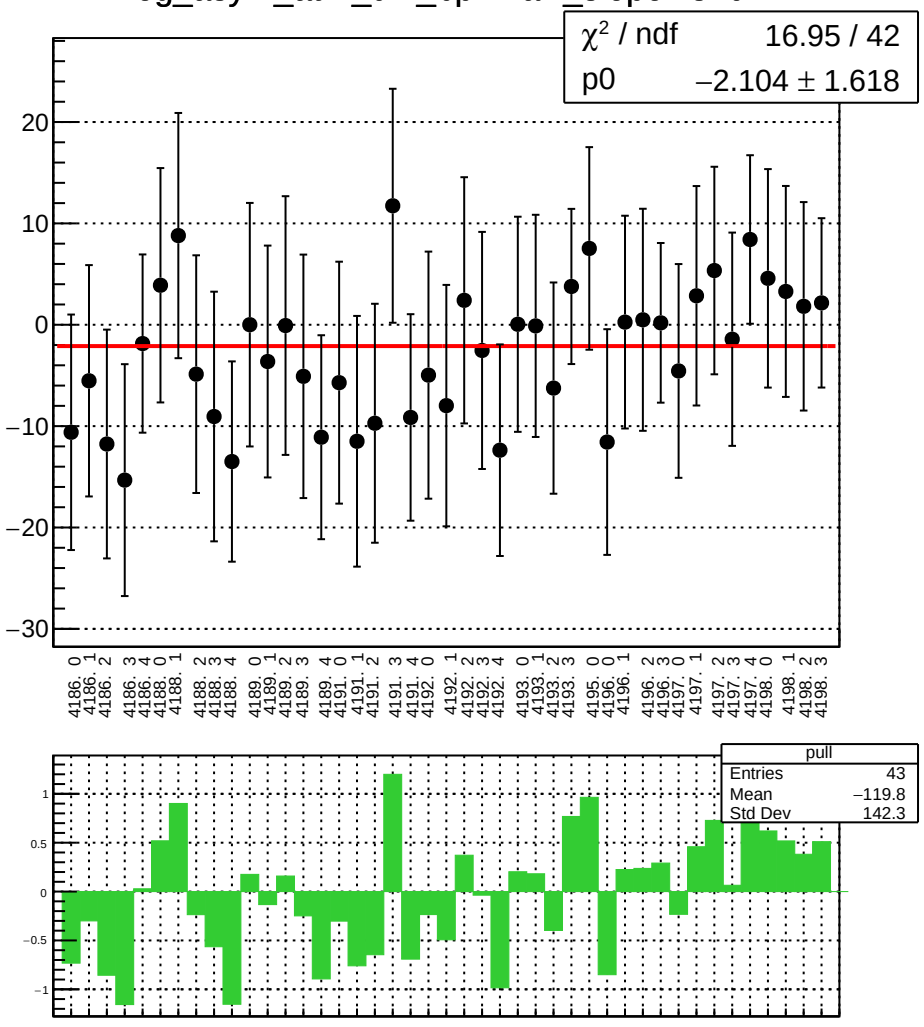

pull1D
Entries 43
Mean −0.01209
Std Dev 0.5011

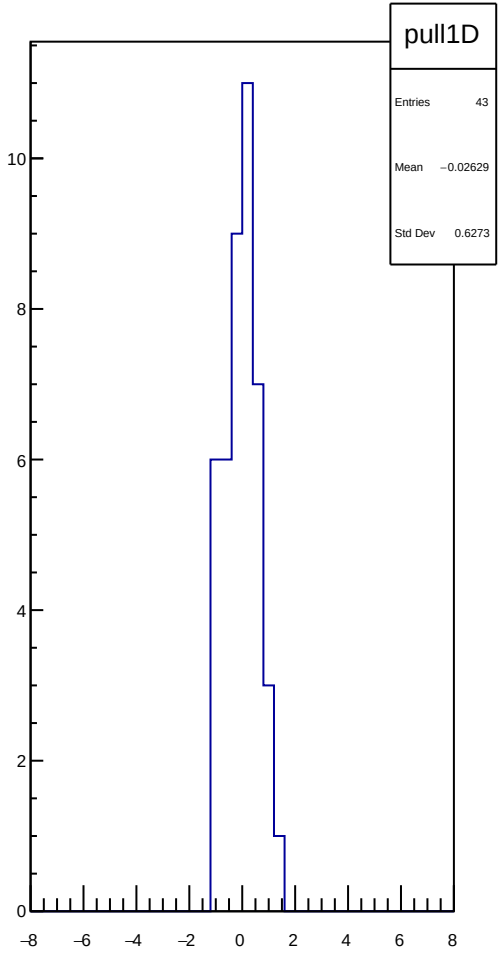

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 203.7 / 42
p0 164.5 ± 0.3975
200
190
180
170
160
150
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −116.3
Std Dev 135
10
8
6
4
2
0
−2
−4
pull1D
Entries 43
Mean −0.07665
Std Dev 1.629
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

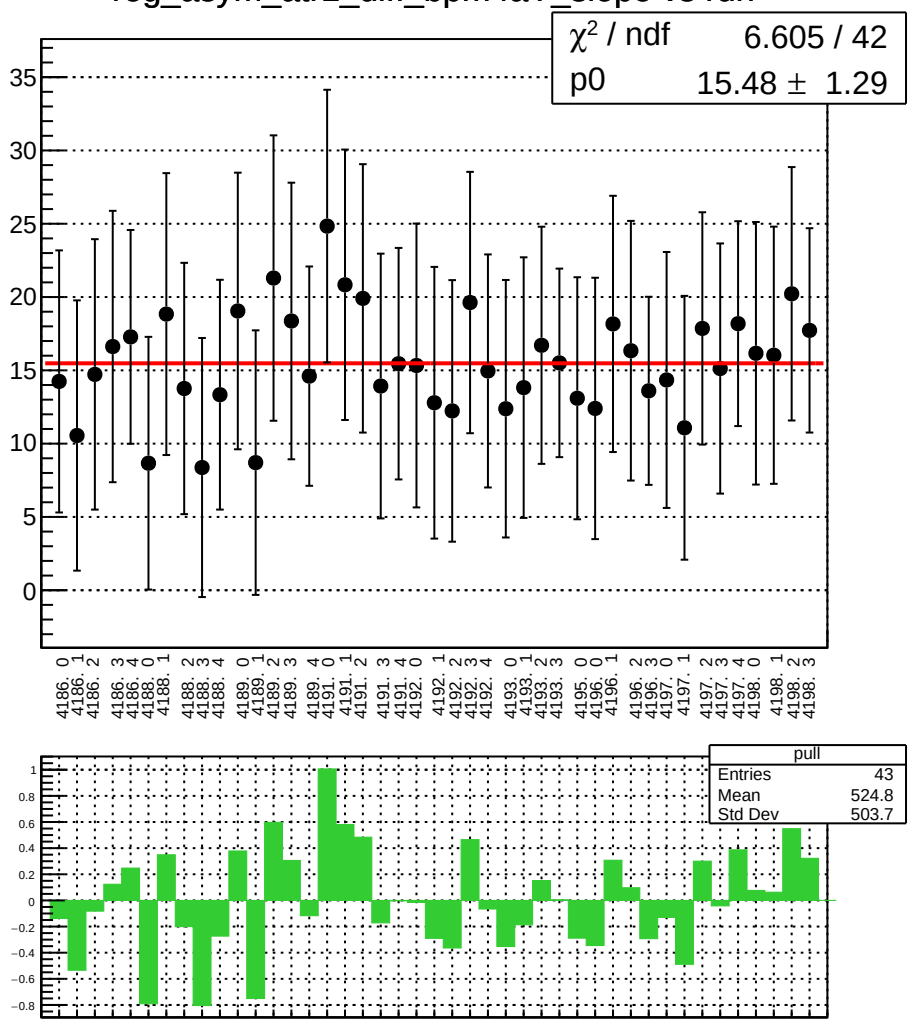

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 10.57 / 42
p0 −41 ± 3.127
20
0
−20
−40
−60
−80
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 634.8
Std Dev 596.9
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.001164
Std Dev 0.4959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

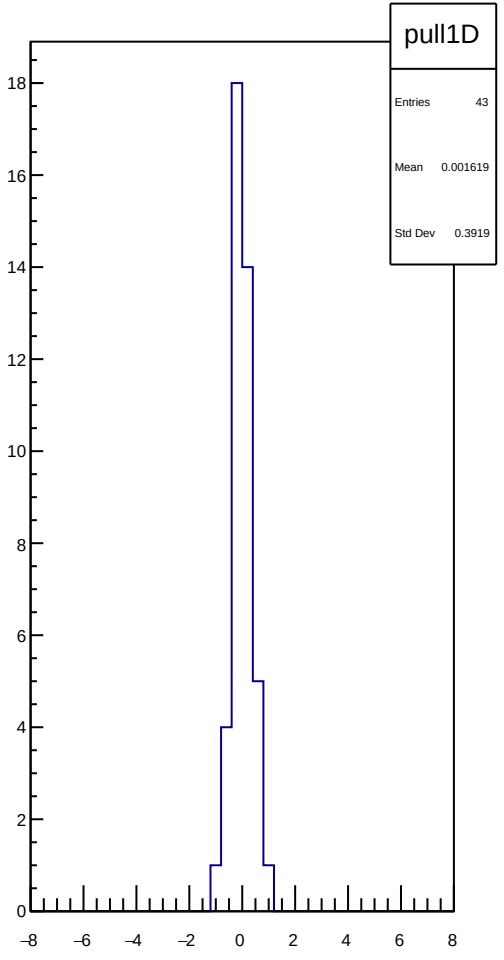

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 5.559 / 42
p0 3.199 ± 0.6022
15
10
5
0
−5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −112.7
Std Dev 130.4
1.5
1
0.5
0
−0.5

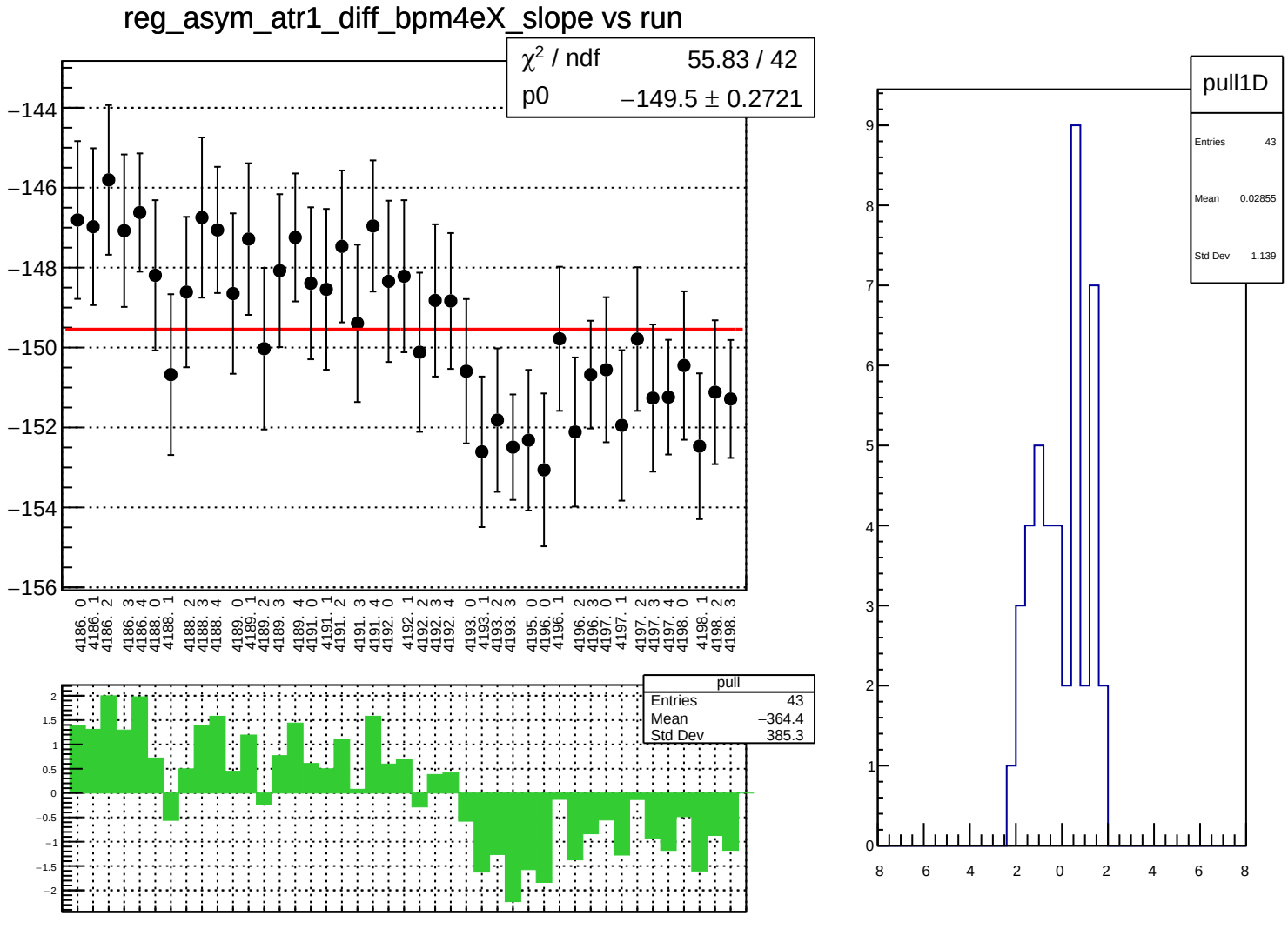

pull1D
Entries 43
Mean 0.01933
Std Dev 0.359
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

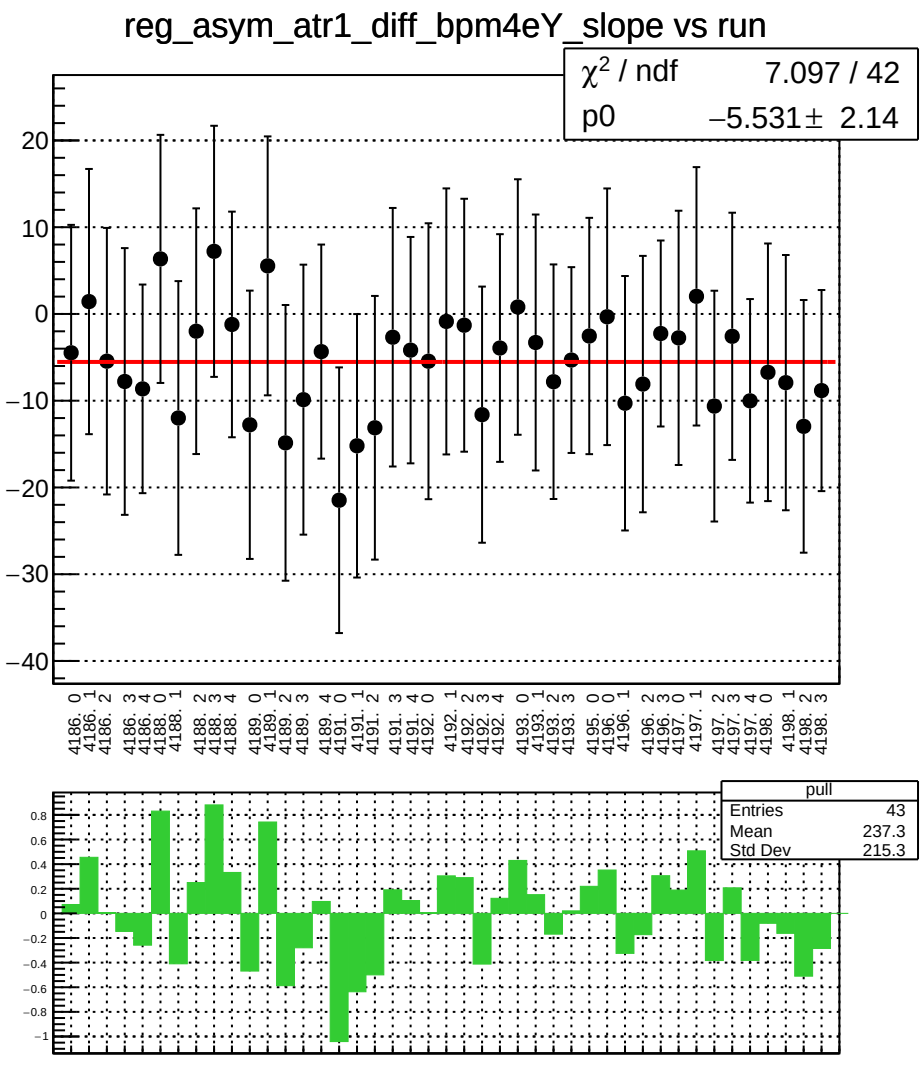

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 16.95 / 42
p0 −2.104 ± 1.618
pull
Entries 43
Mean −119.8
Std Dev 142.3

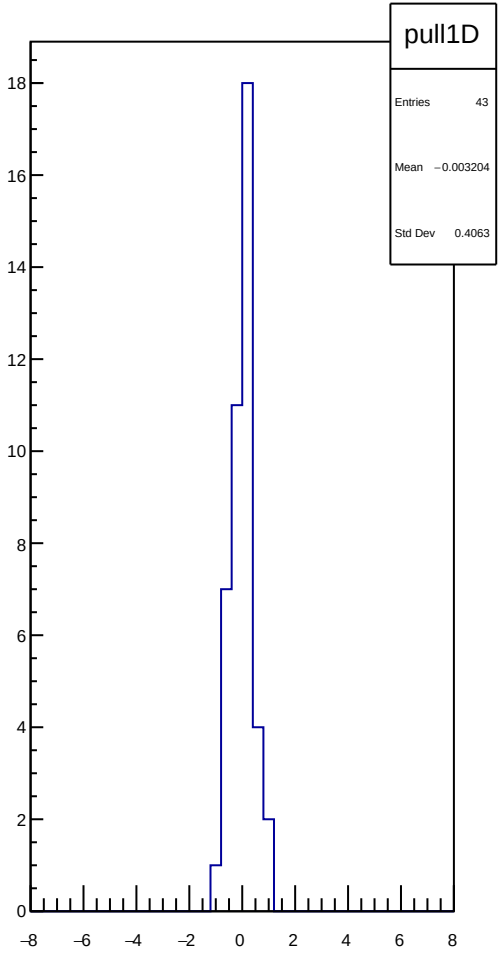

pull1D
Entries 43
Mean −0.02629
Std Dev 0.6273

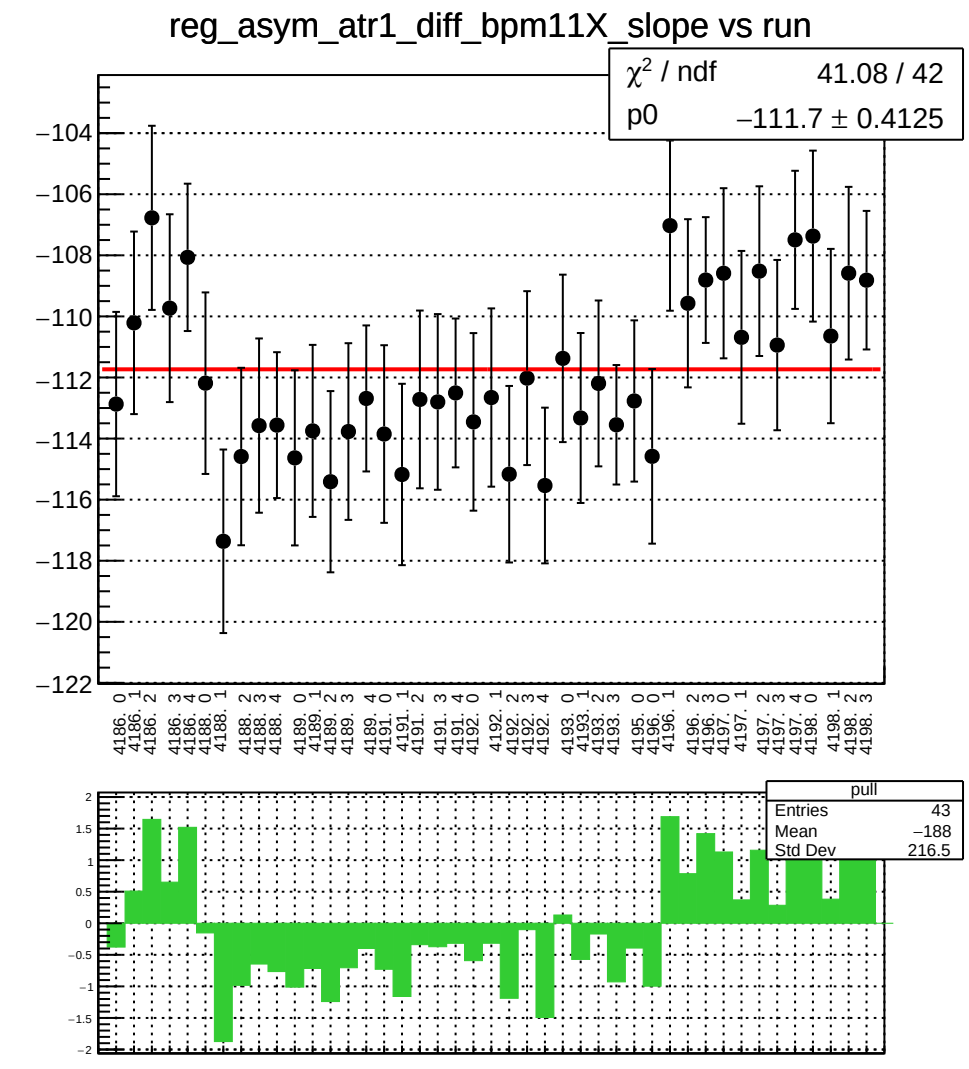

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 6.605 / 42
p0 15.48 ± 1.29
pull
Entries 43
Mean 524.8
Std Dev 503.7

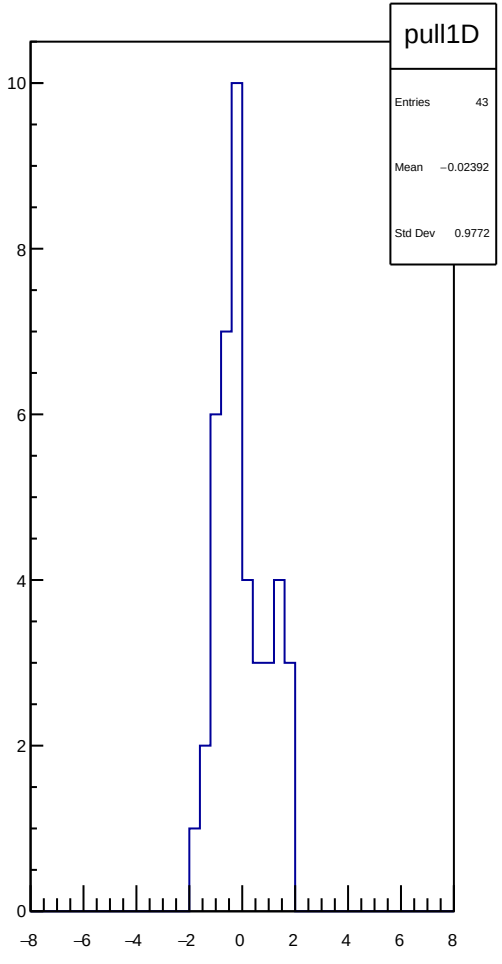

pull1D
Entries 43
Mean 0.001619
Std Dev 0.3919

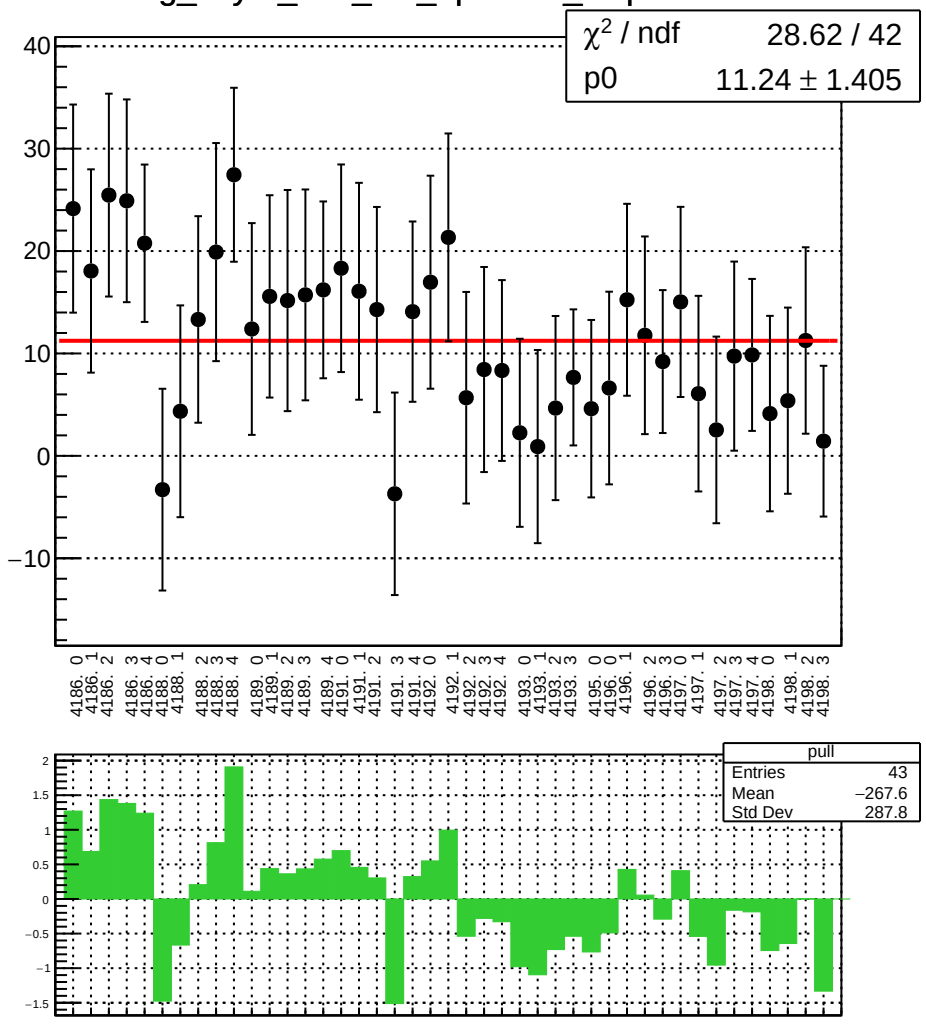

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 55.83 / 42
p0 −149.5 ± 0.2721
−144
−146
−148
−150
−152
−154
−156
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −364.4
Std Dev 385.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02855
Std Dev 1.139
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

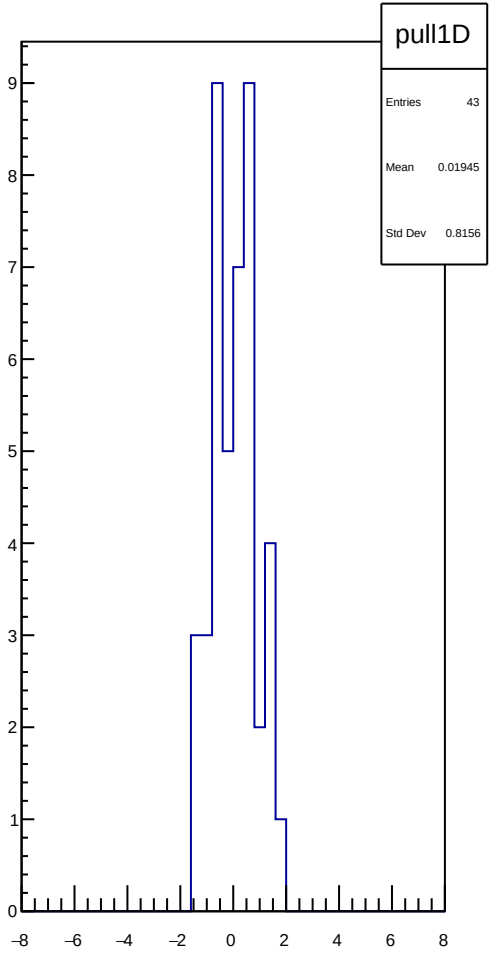

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 7.097 / 42
p0 −5.531± 2.14
pull
Entries 43
Mean 237.3
Std Dev 215.3

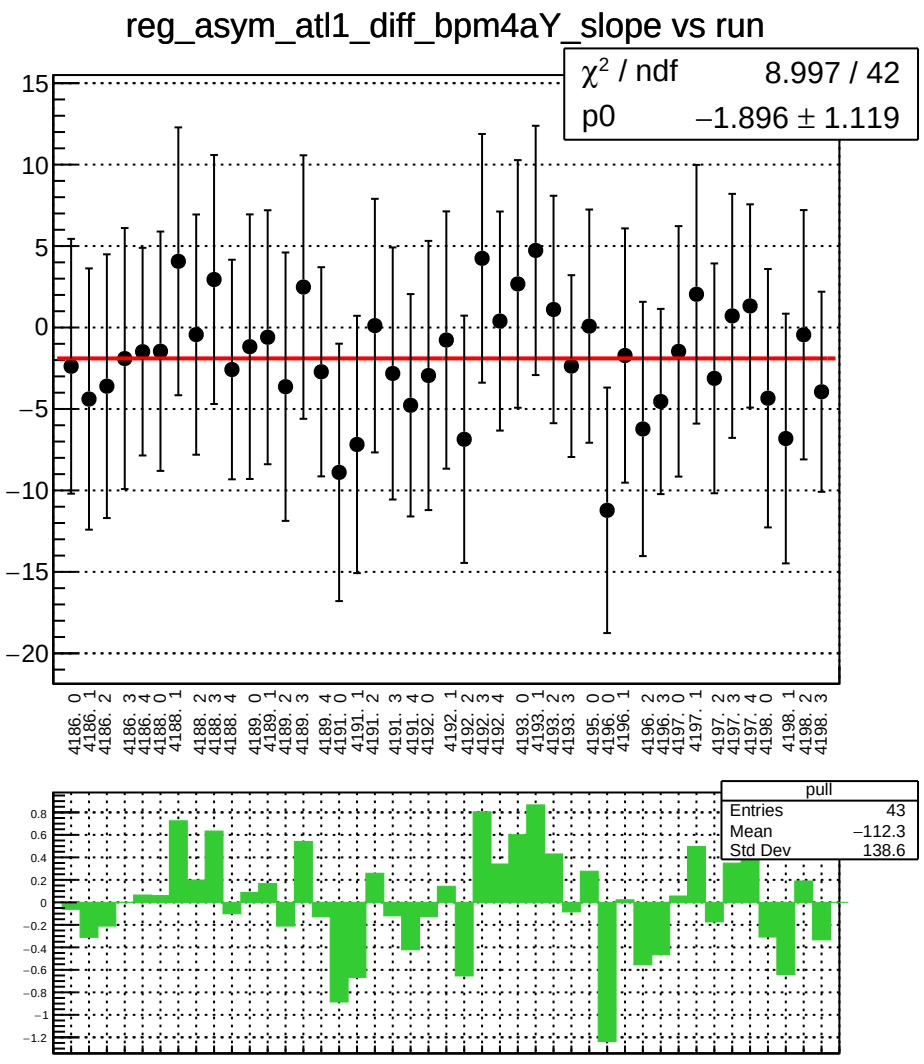

pull1D
Entries 43
Mean −0.003204
Std Dev 0.4063

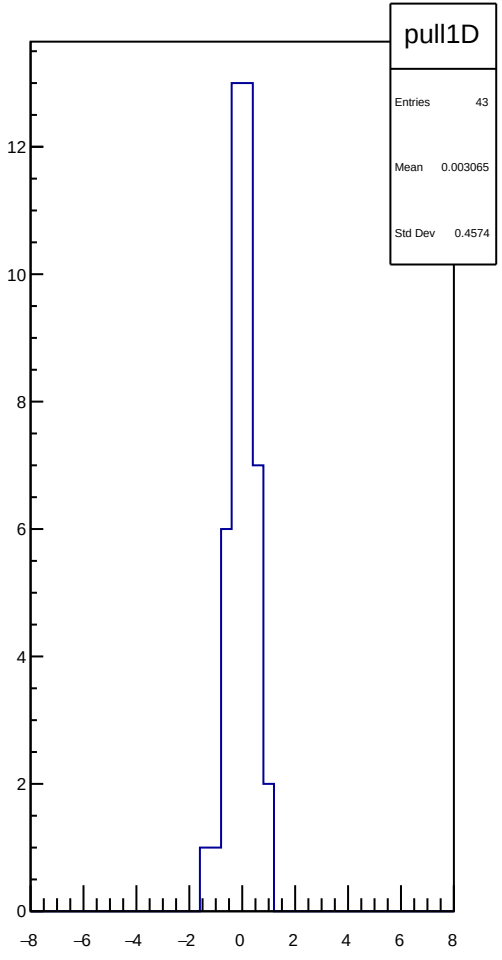

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 41.08 / 42
p0 −111.7 ± 0.4125
pull
Entries 43
Mean −188
Std Dev 216.5

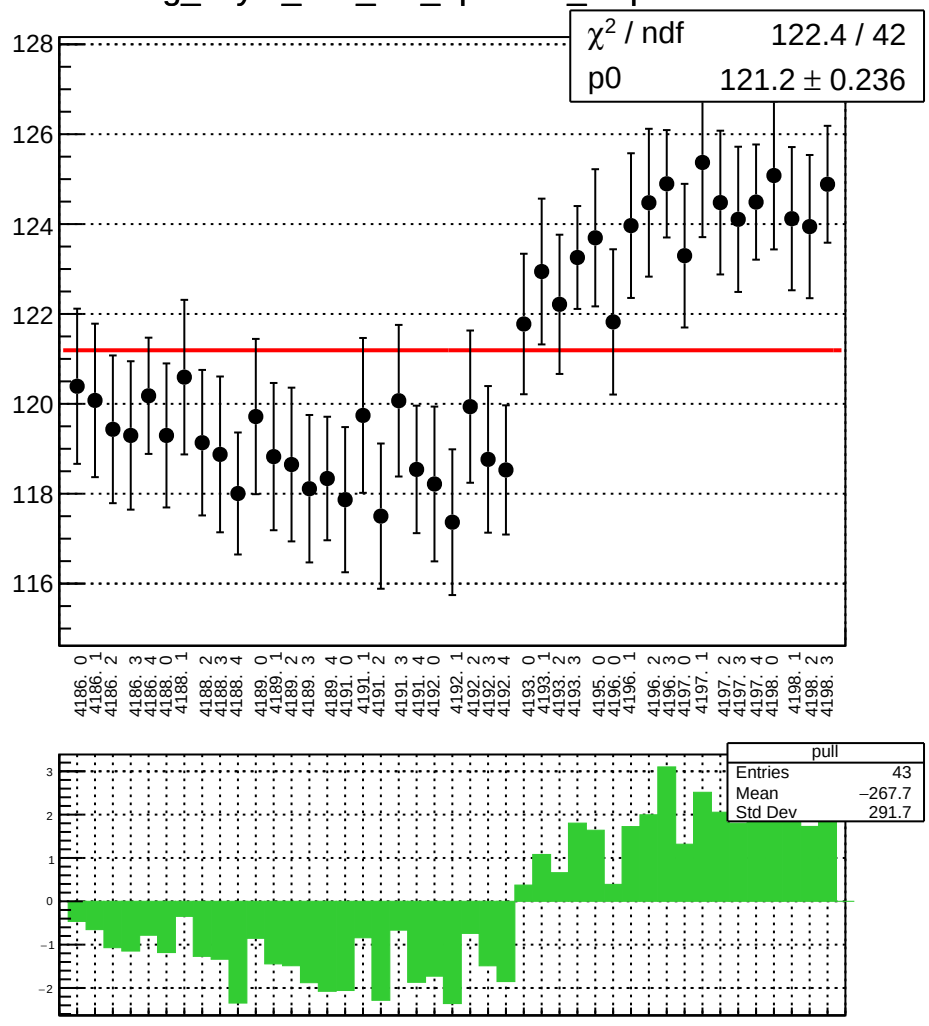

pull1D
Entries 43
Mean −0.02392
Std Dev 0.9772

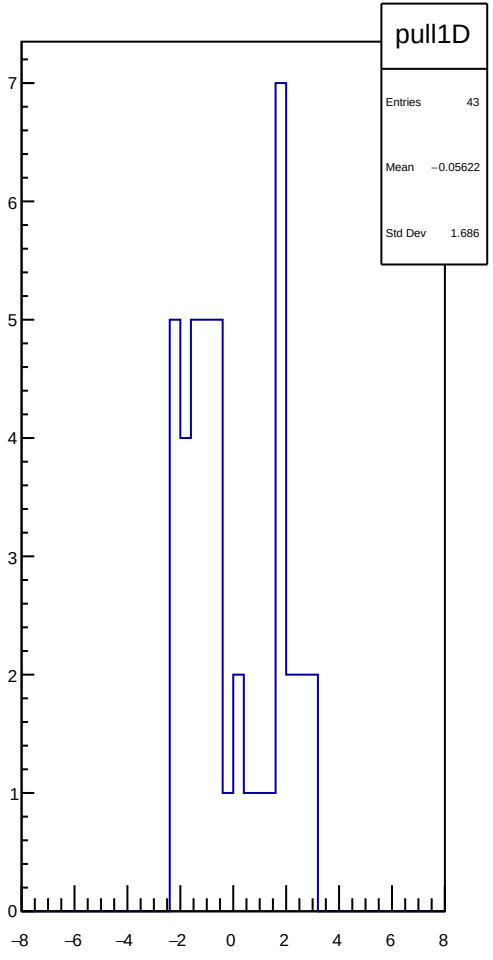

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 28.62 / 42
p0 11.24 ± 1.405
pull
Entries 43
Mean −267.6
Std Dev 287.8

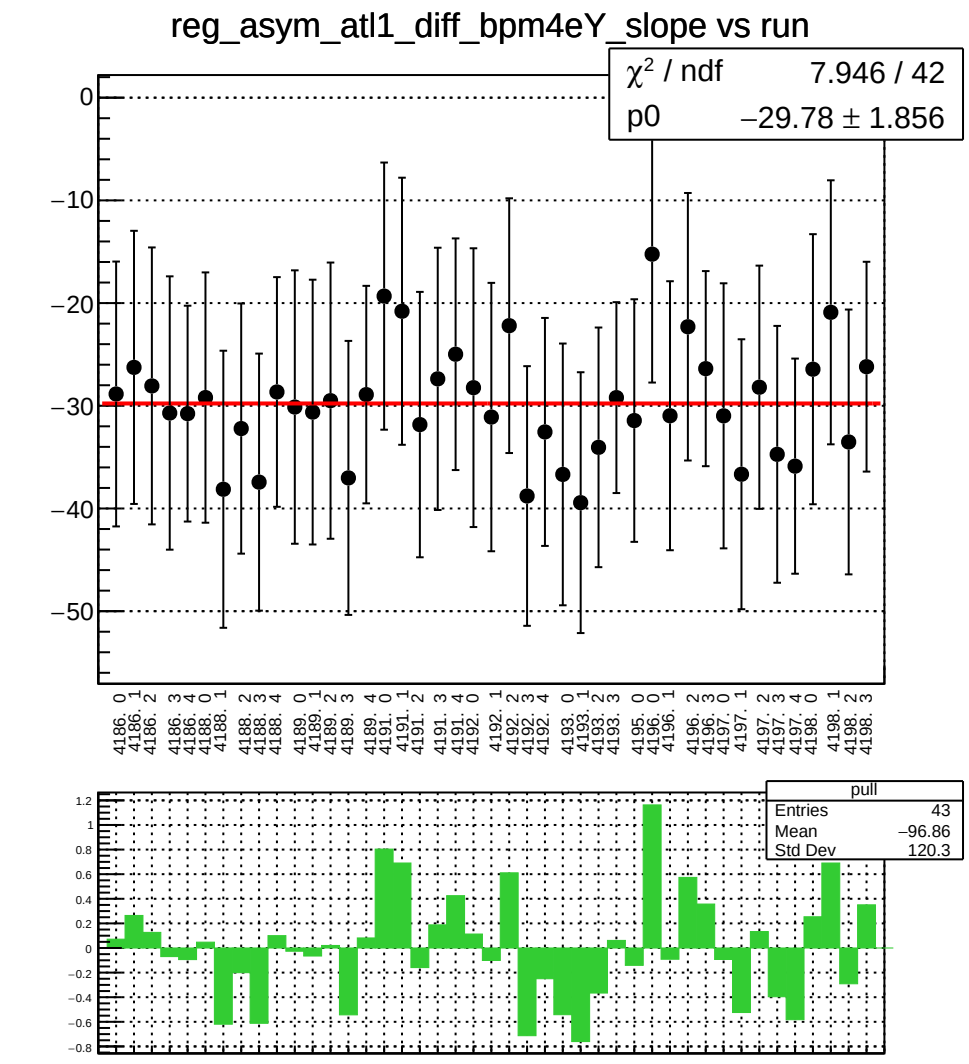

pull1D
Entries 43
Mean 0.01945
Std Dev 0.8156

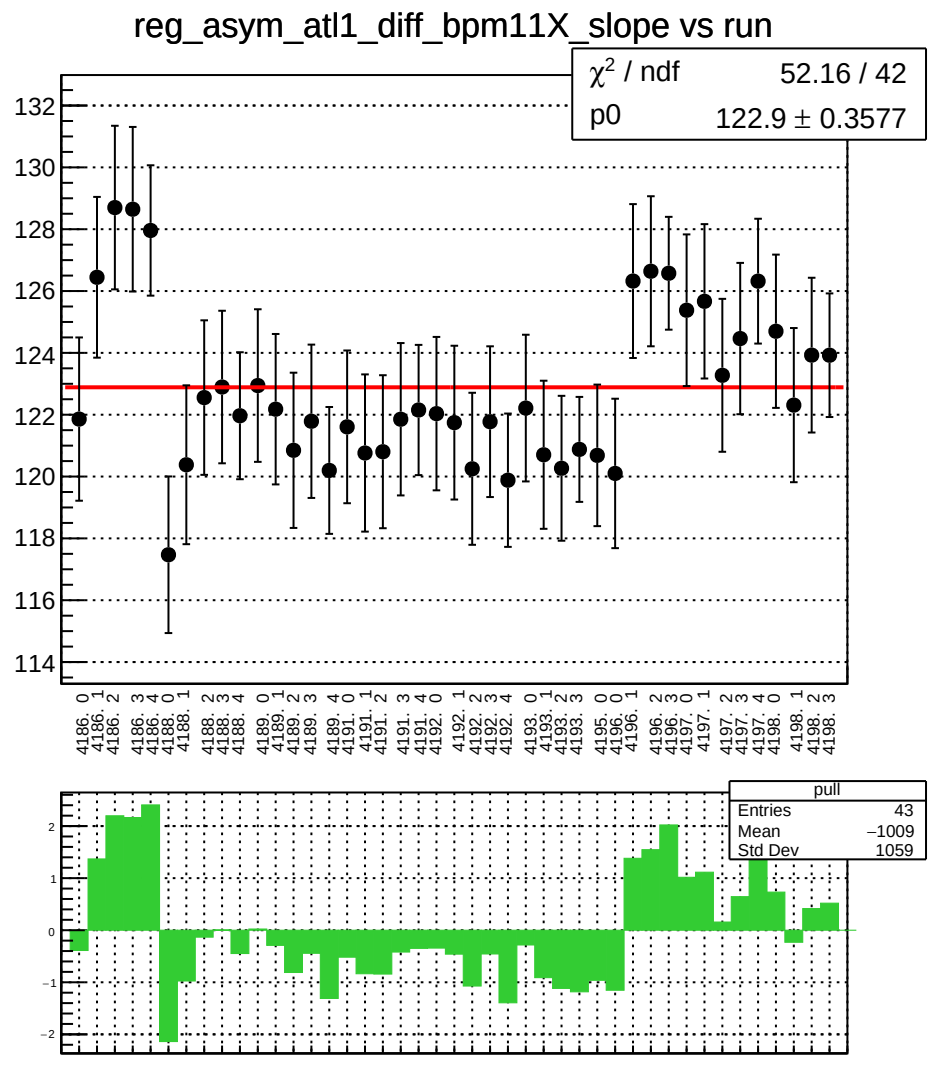

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 8.997 / 42
p0 −1.896 ± 1.119
pull
Entries 43
Mean −112.3
Std Dev 138.6

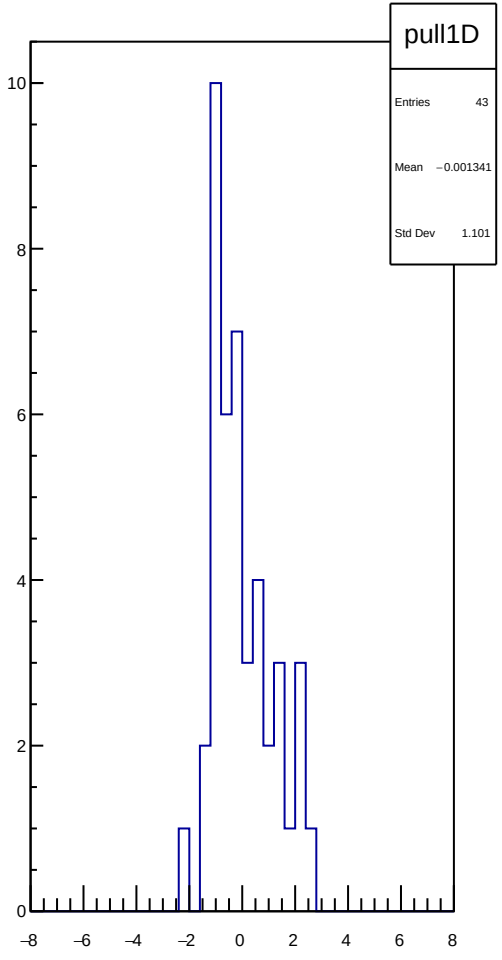

pull1D
Entries 43
Mean 0.003065
Std Dev 0.4574

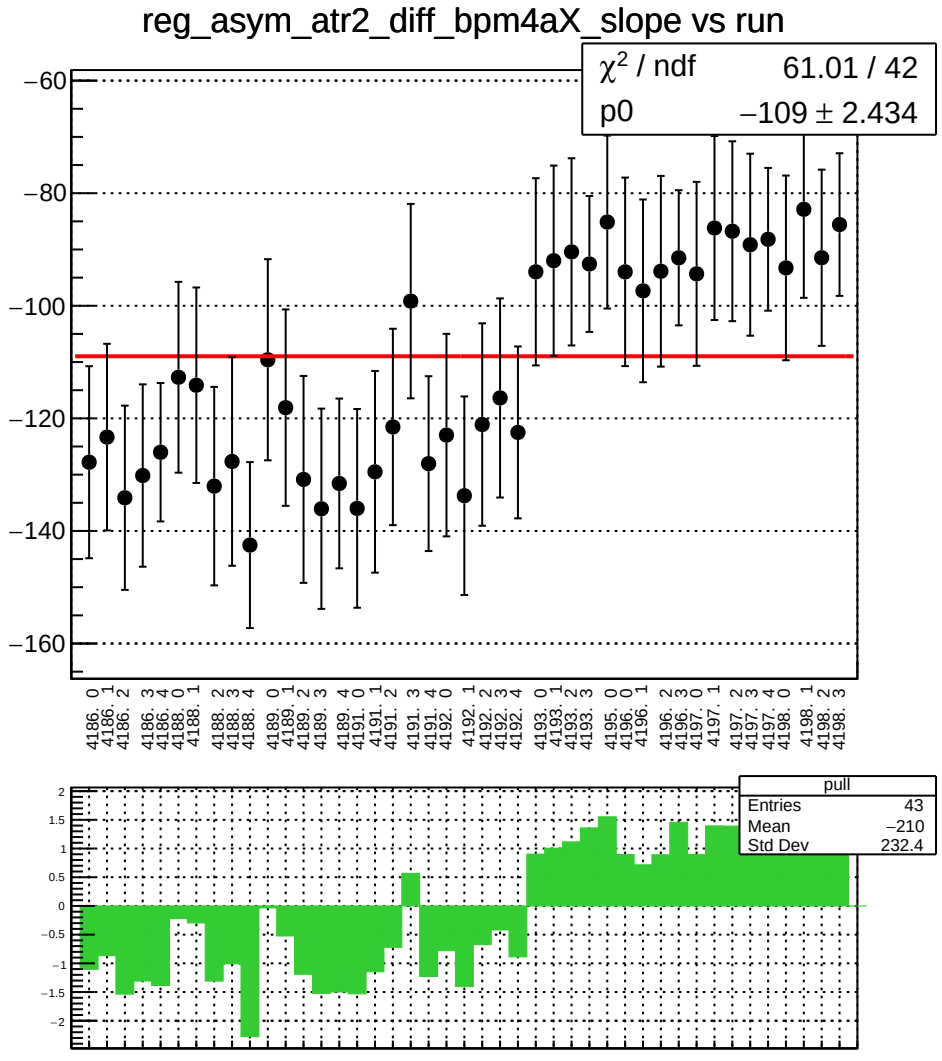

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 122.4 / 42
p0 121.2 ± 0.236
pull
Entries 43
Mean −267.7
Std Dev 291.7

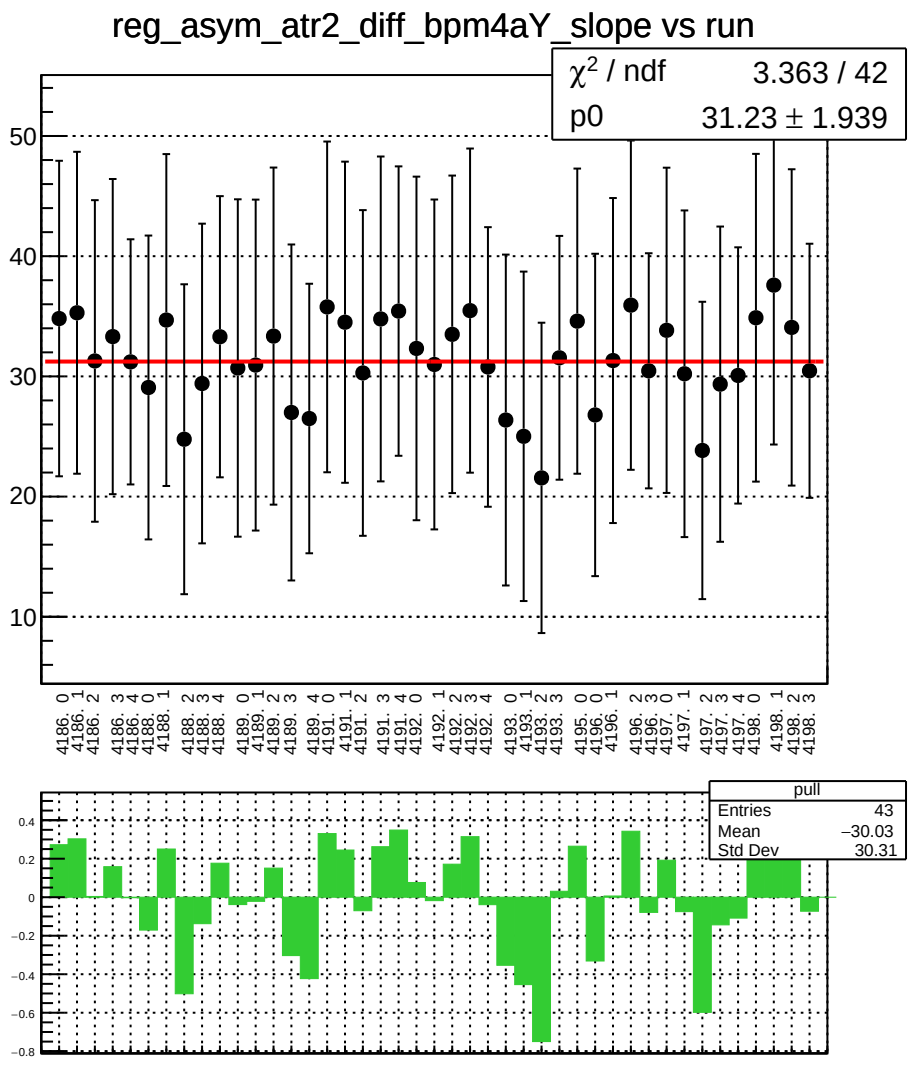

pull1D
Entries 43
Mean −0.05622
Std Dev 1.686

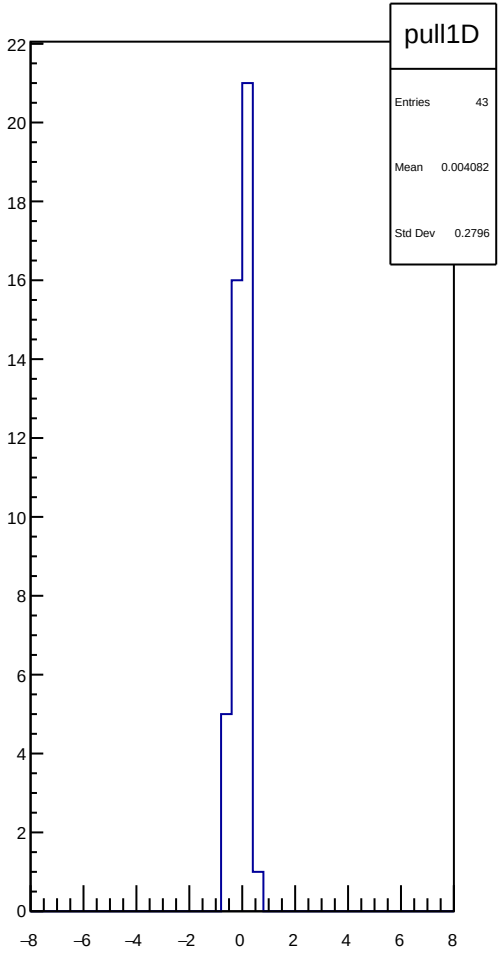

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 7.946 / 42
p0 −29.78 ± 1.856
0
−10
−20
−30
−40
−50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −96.86
Std Dev 120.3
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.002609
Std Dev 0.4299
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

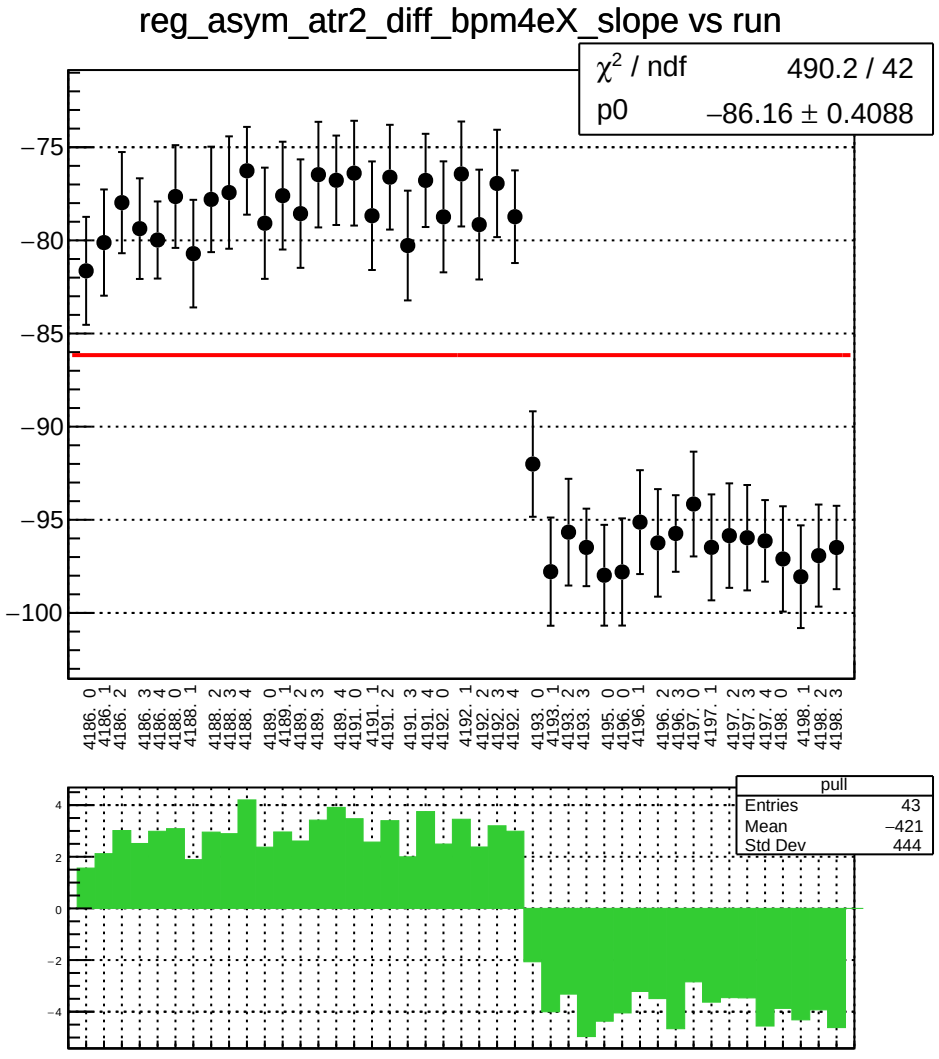

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 52.16 / 42
p0 122.9 ± 0.3577
pull
Entries 43
Mean −1009
Std Dev 1059

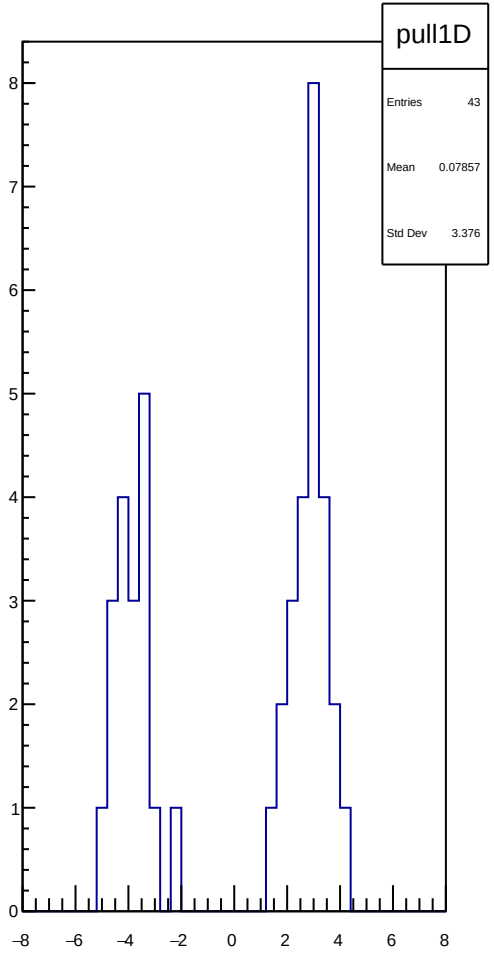

pull1D
Entries 43
Mean −0.001341
Std Dev 1.101

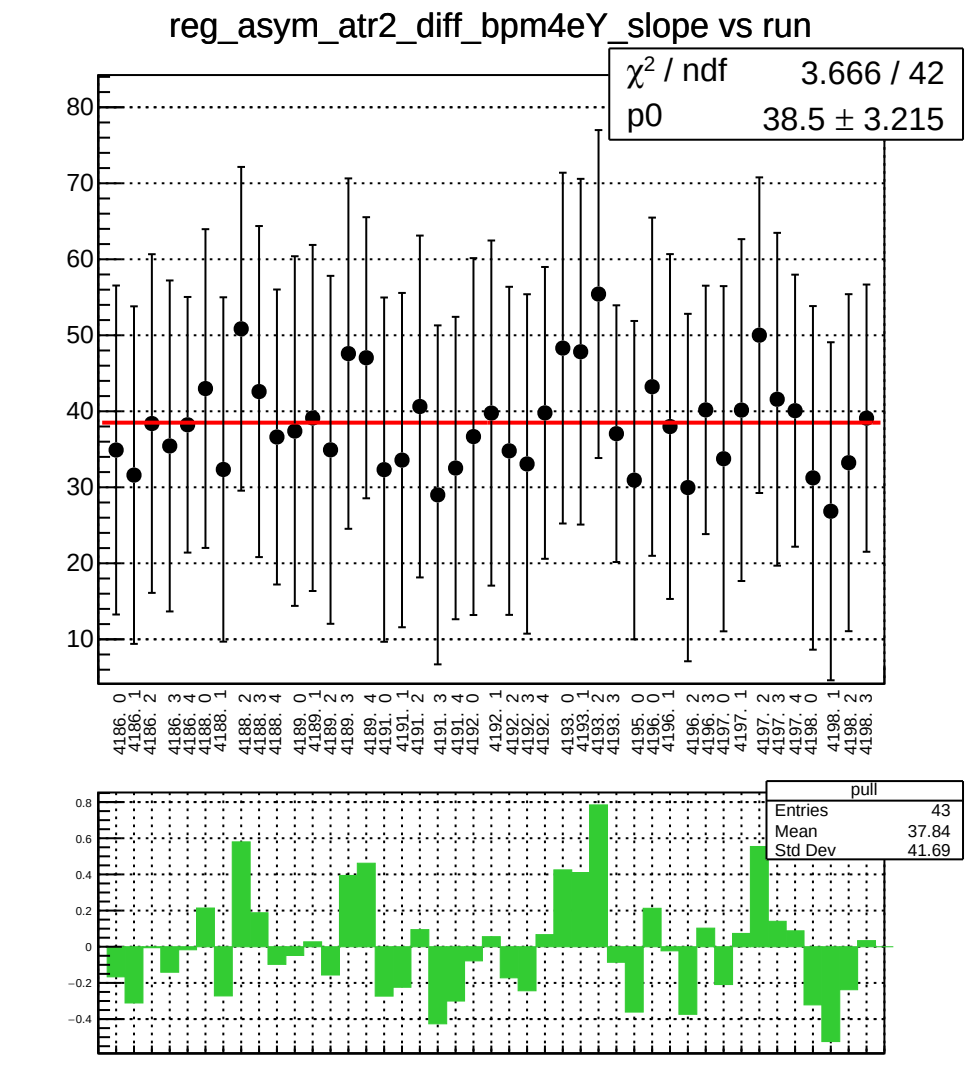

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 61.01 / 42
p0 −109 ± 2.434
−60
−80
−100
−120
−140
−160
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −210
Std Dev 232.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.05292
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

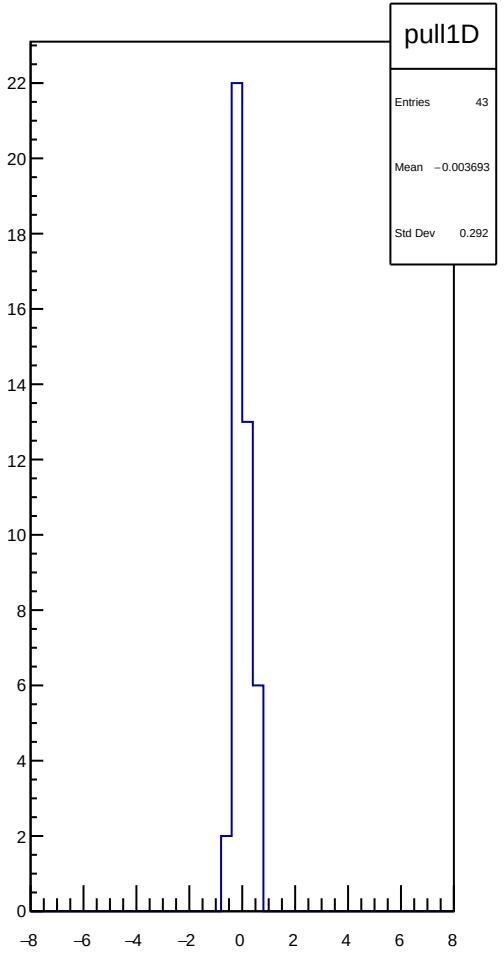

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.363 / 42
p0 31.23 ± 1.939
pull
Entries 43
Mean −30.03
Std Dev 30.31

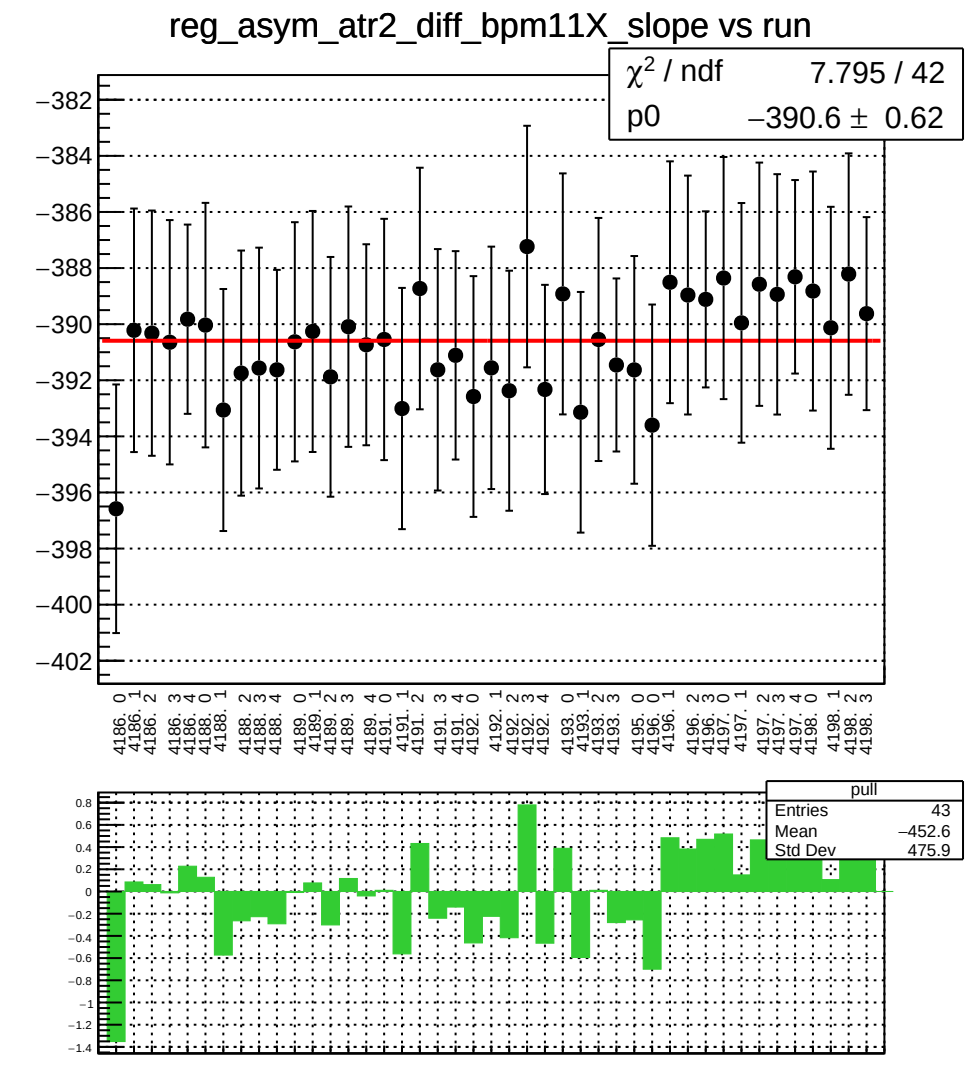

pull1D
Entries 43
Mean 0.004082
Std Dev 0.2796

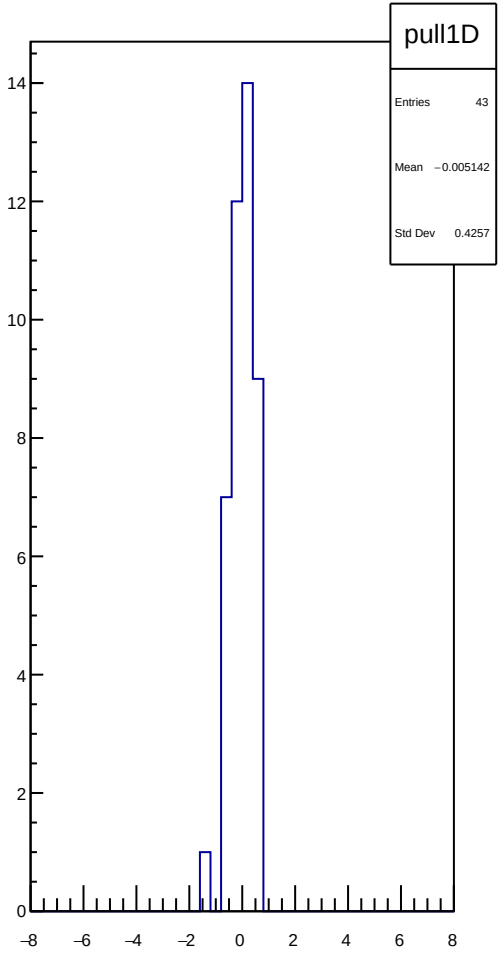

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 490.2 / 42
p0 −86.16 ± 0.4088
pull
Entries 43
Mean −421
Std Dev 444

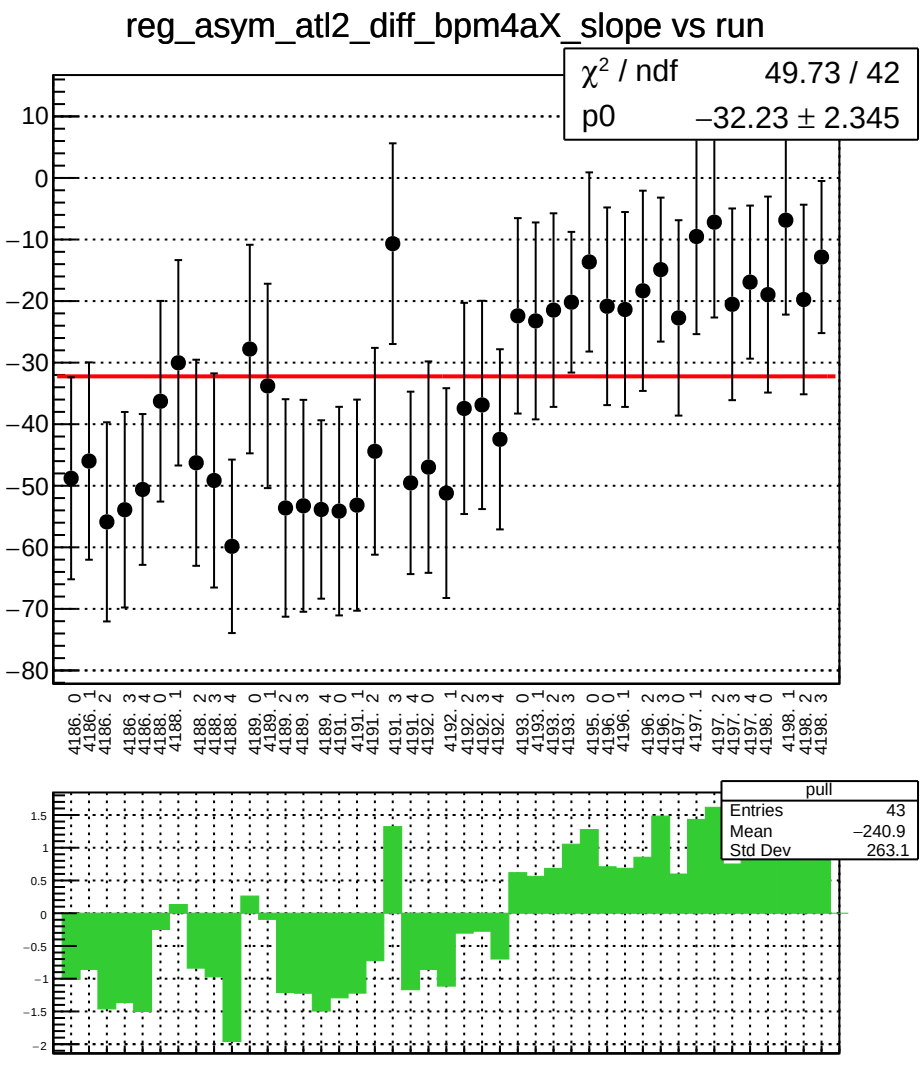

pull1D
Entries 43
Mean 0.07857
Std Dev 3.376

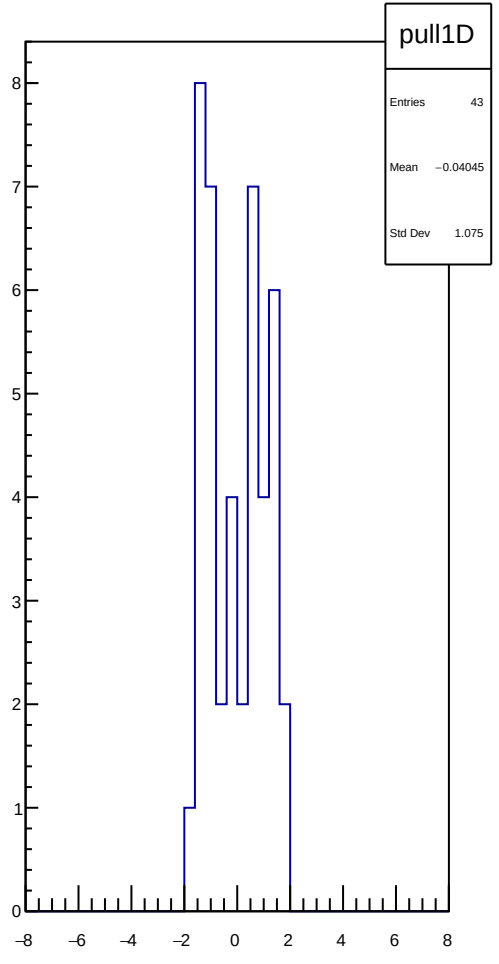

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.666 / 42
p0 38.5 ± 3.215
pull
Entries 43
Mean 37.84
Std Dev 41.69

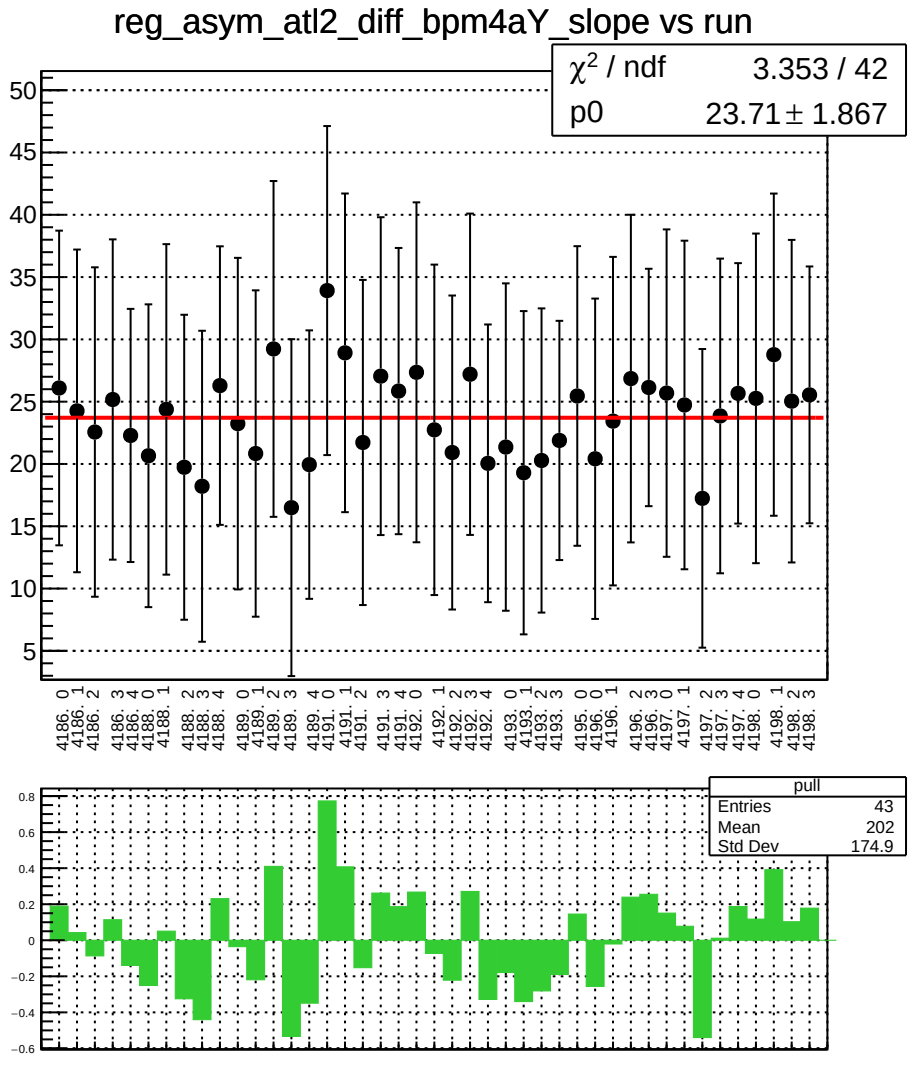

pull1D
Entries 43
Mean −0.003693
Std Dev 0.292

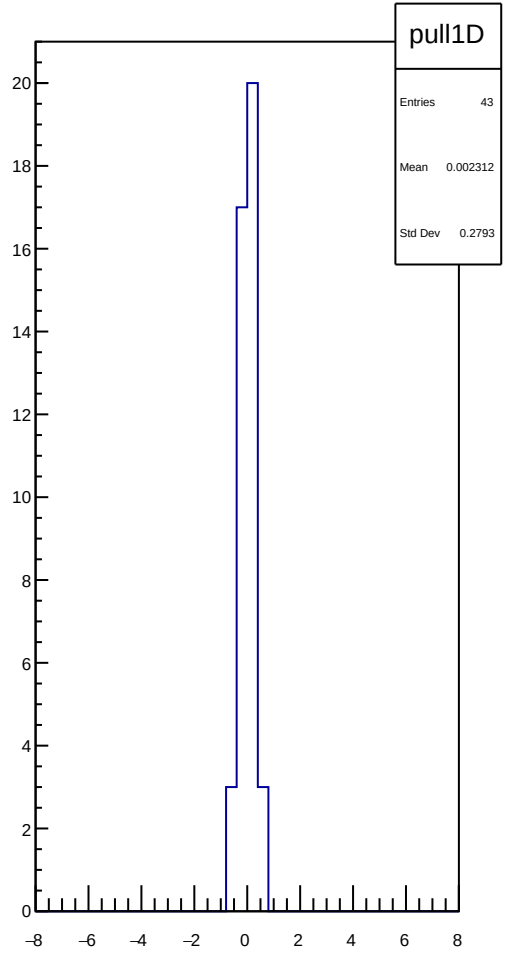

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 7.795 / 42
p0 −390.6 ± 0.62
pull
Entries 43
Mean −452.6
Std Dev 475.9

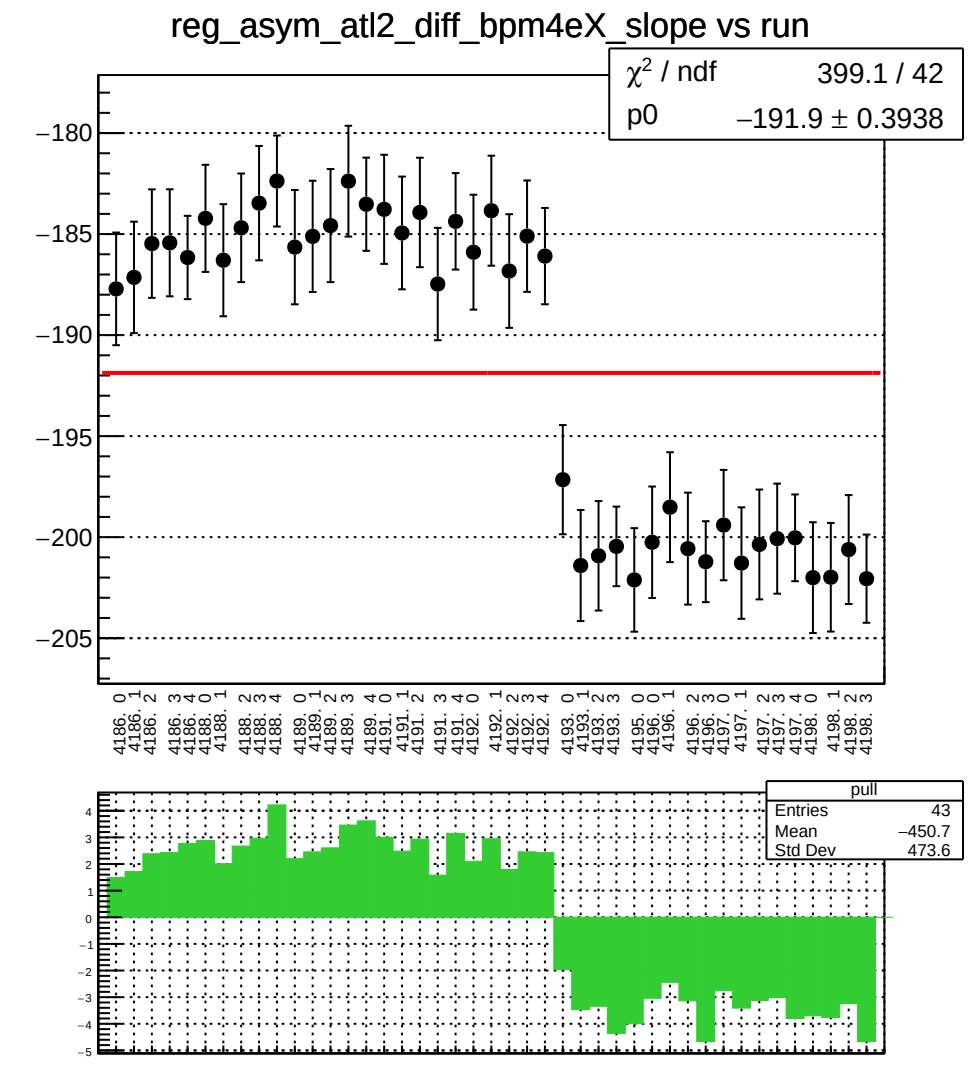

pull1D
Entries 43
Mean −0.005142
Std Dev 0.4257

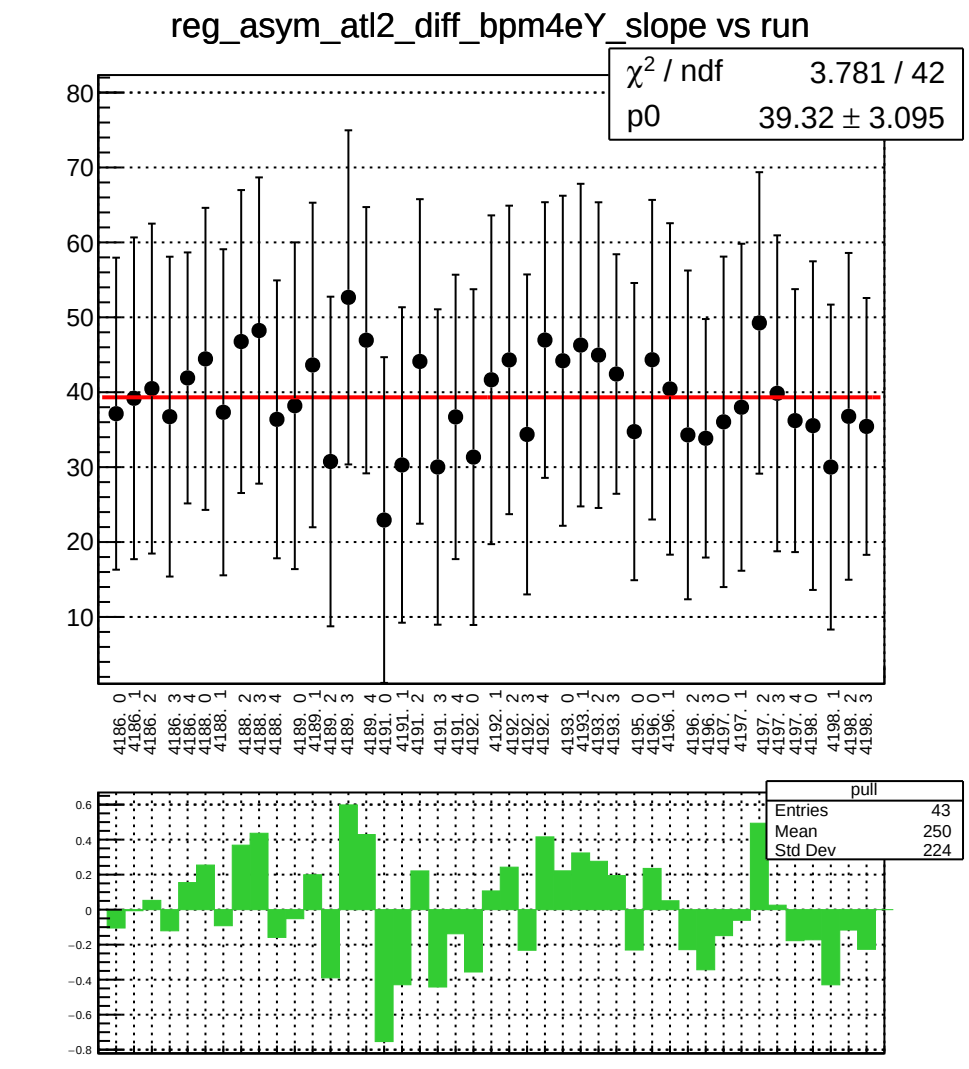

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 49.73 / 42
p0 −32.23 ± 2.345
pull
Entries 43
Mean −240.9
Std Dev 263.1

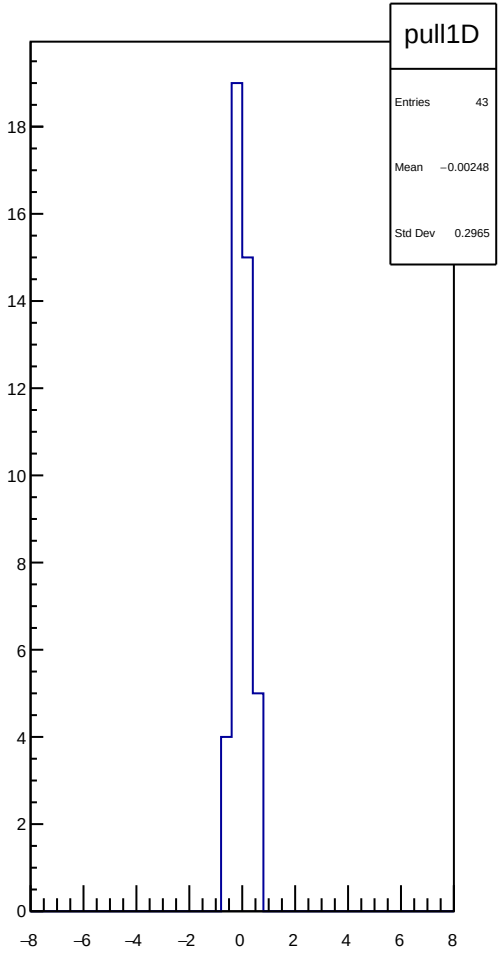

pull1D
Entries 43
Mean −0.04045
Std Dev 1.075

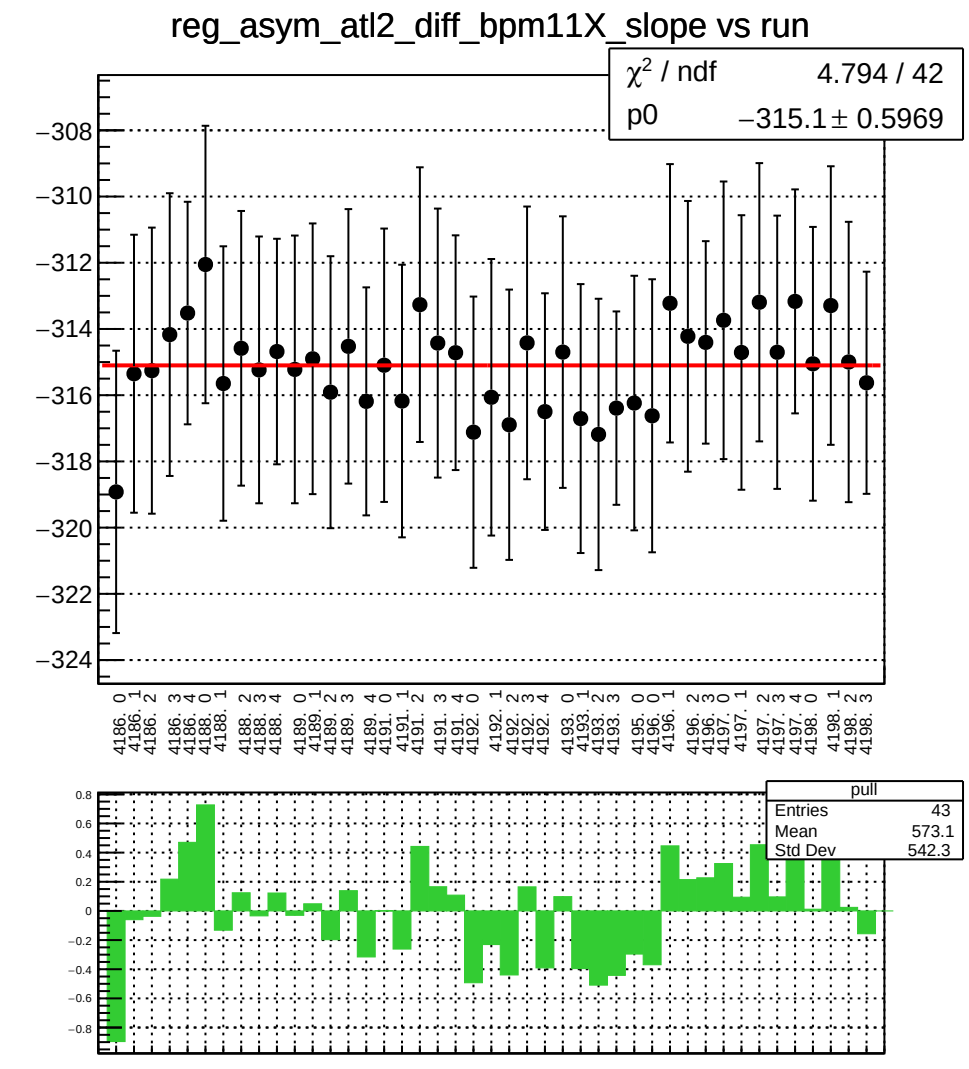

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 3.353 / 42
p0 23.71 ± 1.867
pull
Entries 43
Mean 202
Std Dev 174.9

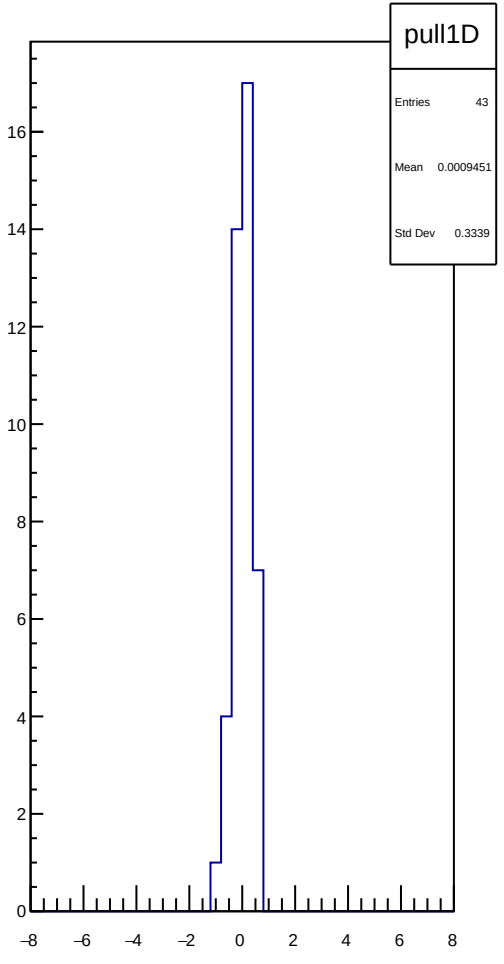

pull1D
Entries 43
Mean 0.002312
Std Dev 0.2793

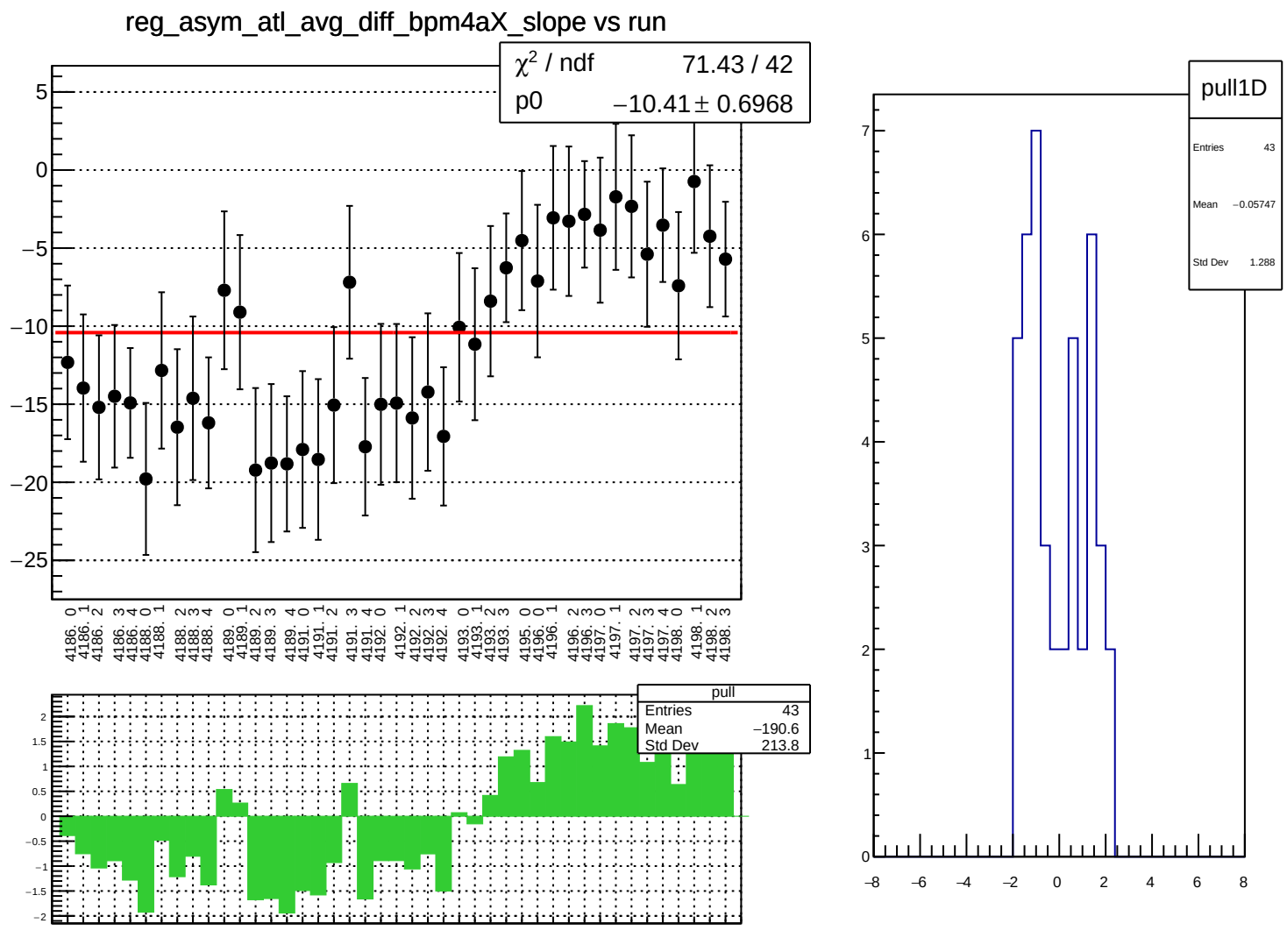

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 399.1 / 42
p0 −191.9 ± 0.3938
−180
−185
−190
−195
−200
−205
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −450.7
Std Dev 473.6
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean 0.06725
Std Dev 3.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

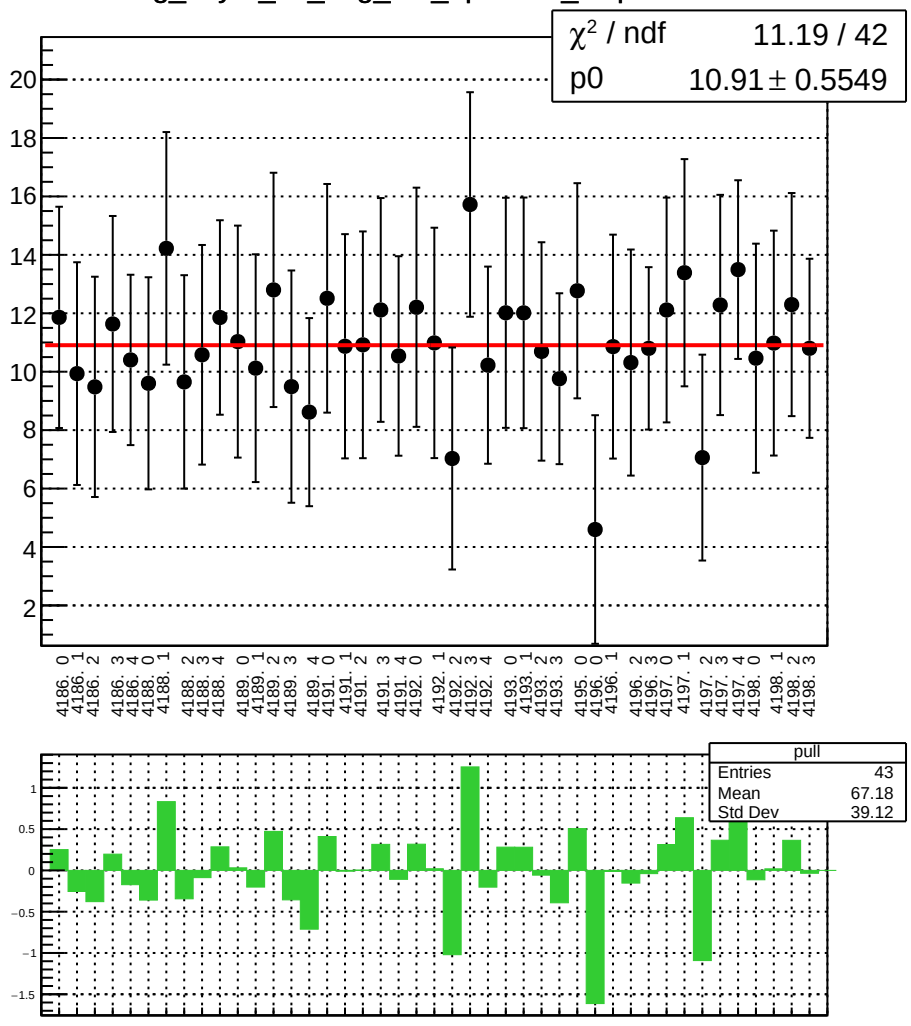

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 3.781 / 42
p0 39.32 ± 3.095
pull
Entries 43
Mean 250
Std Dev 224

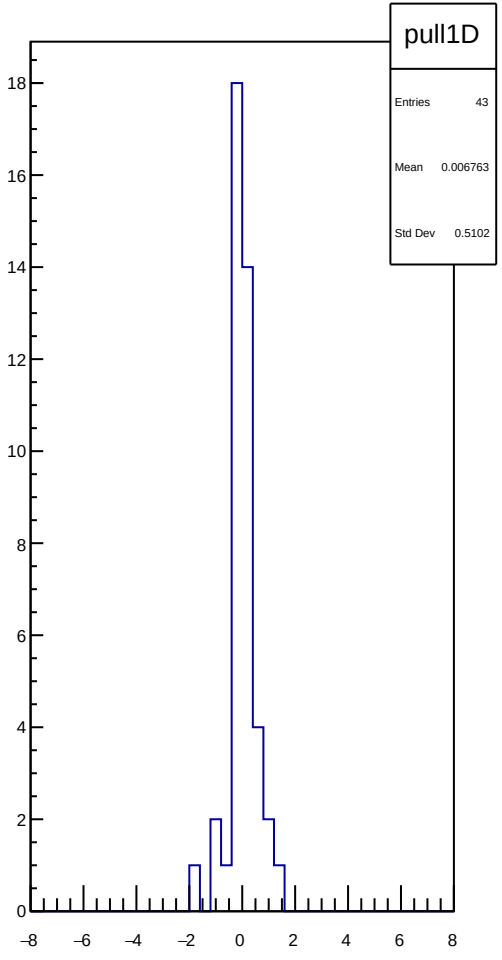

pull1D
Entries 43
Mean −0.00248
Std Dev 0.2965

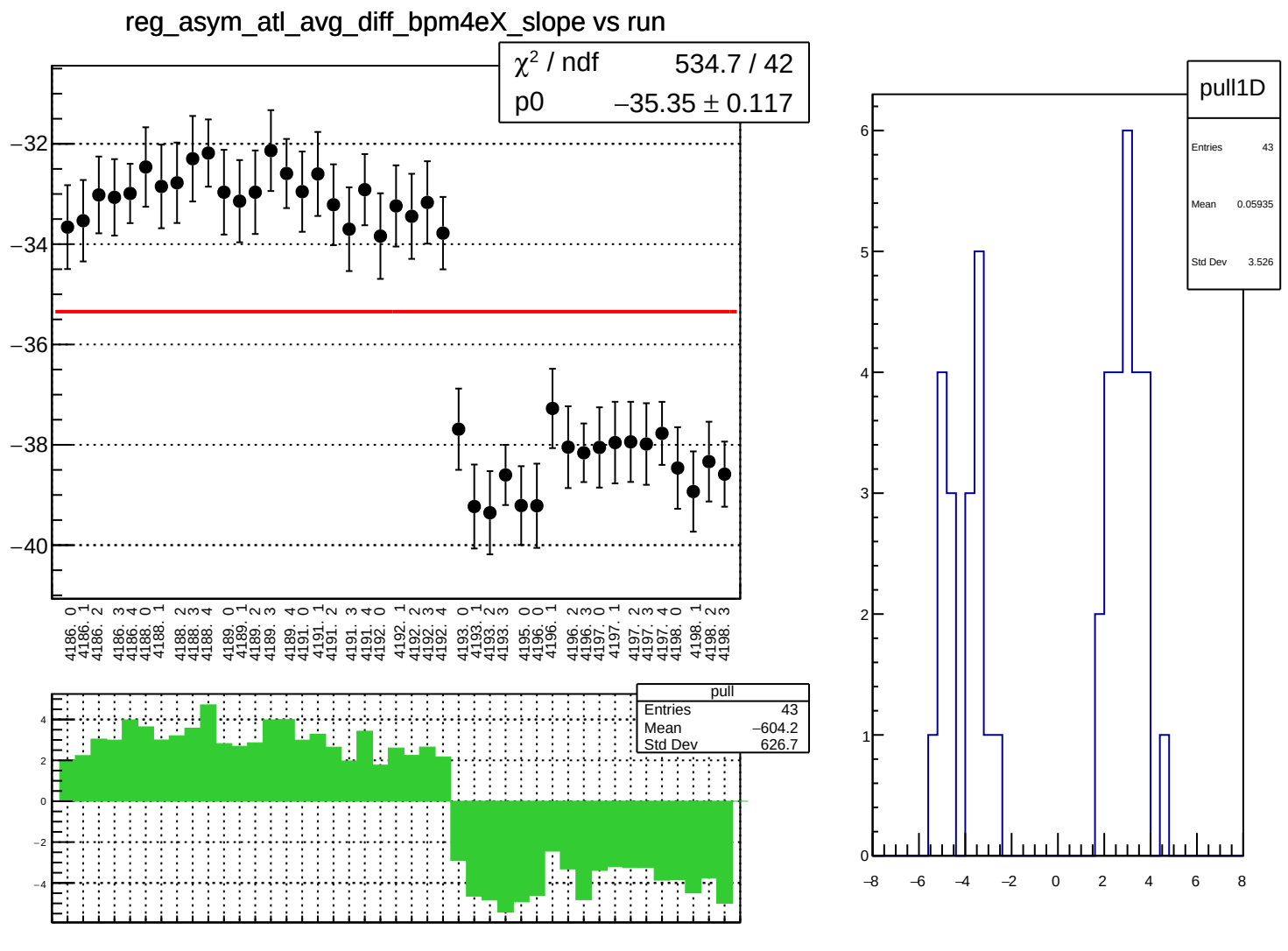

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 4.794 / 42
p0 −315.1 ± 0.5969
pull
Entries 43
Mean 573.1
Std Dev 542.3

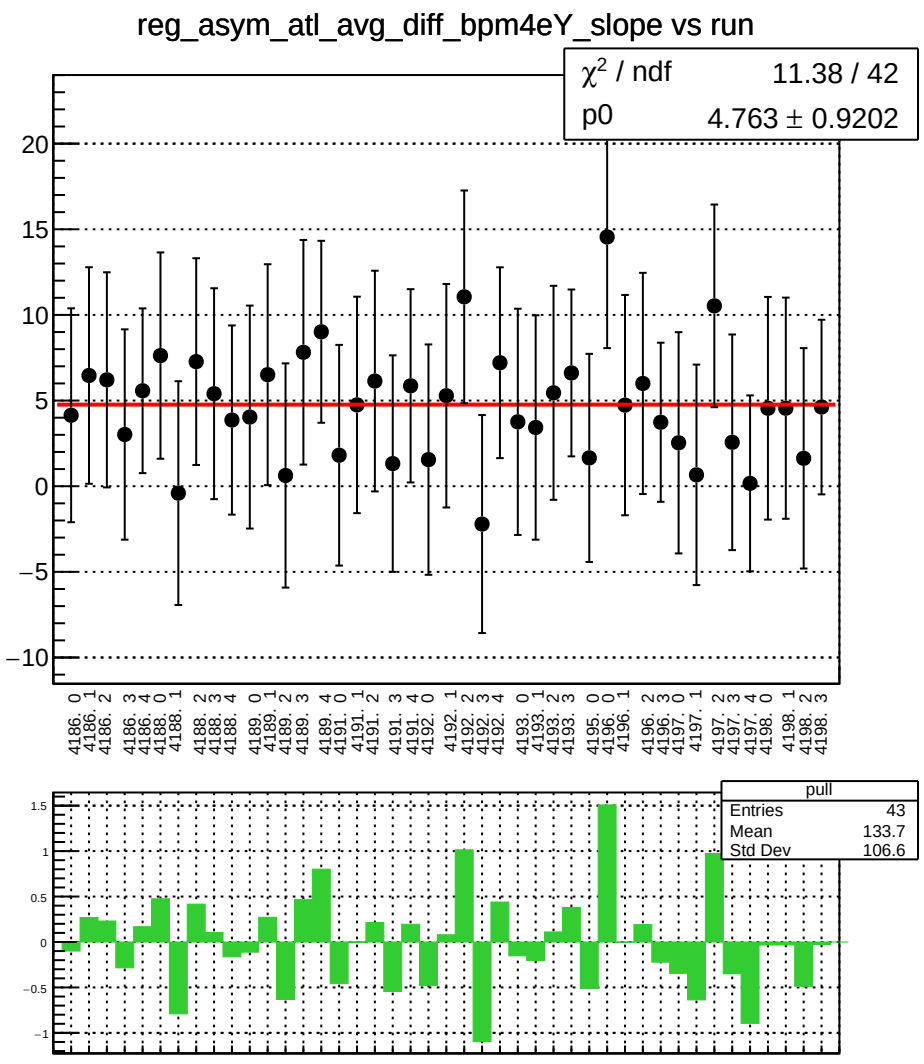

pull1D
Entries 43
Mean 0.0009451
Std Dev 0.3339

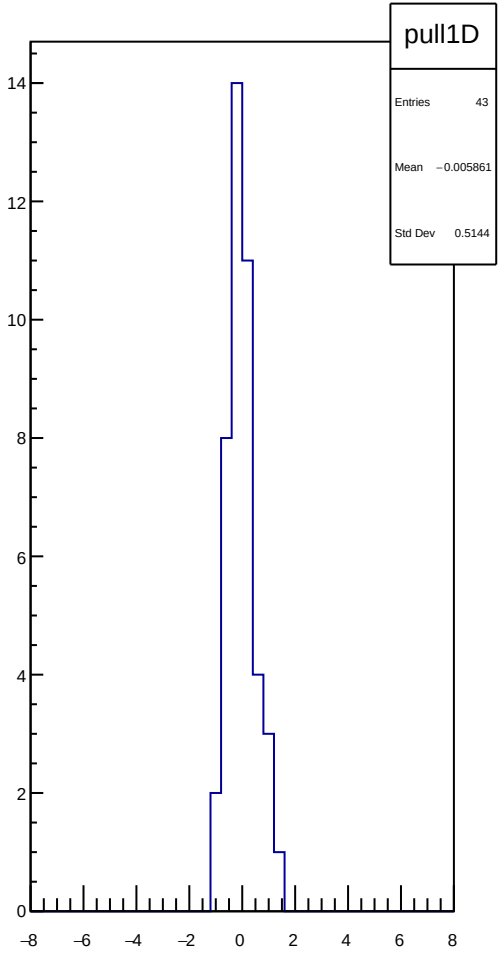

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 71.43 / 42
p0 −10.41 ± 0.6968
pull
Entries 43
Mean −190.6
Std Dev 213.8
pull1D
Entries 43
Mean −0.05747
Std Dev 1.288

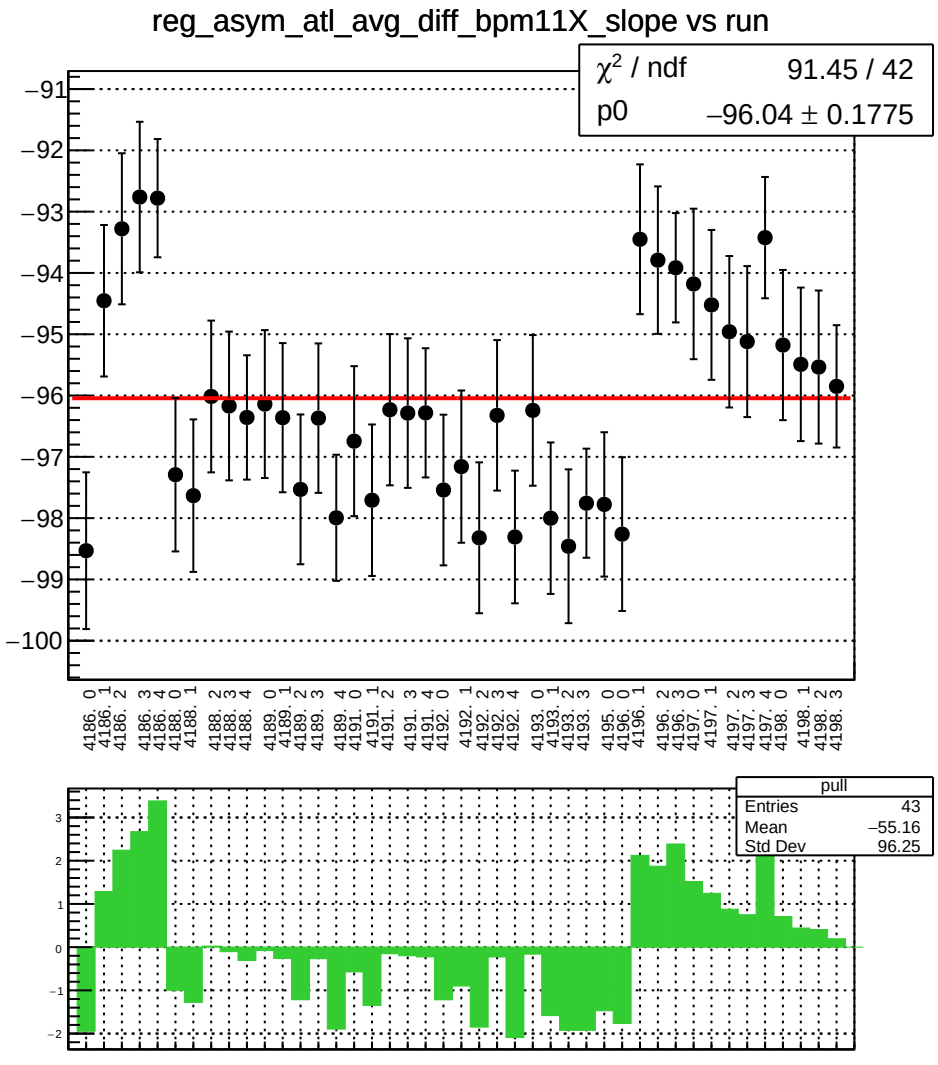

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.19 / 42
p0 10.91 ± 0.5549
pull
Entries 43
Mean 67.18
Std Dev 39.12

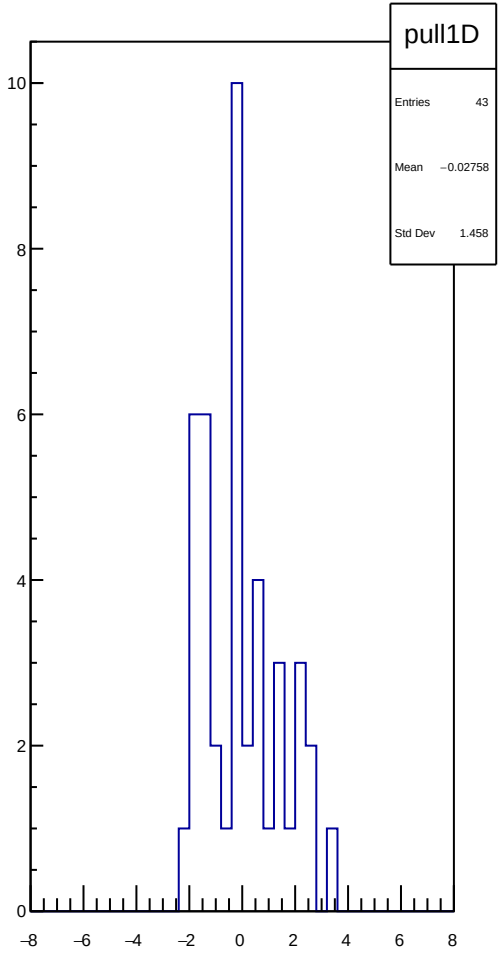

pull1D
Entries 43
Mean 0.006763
Std Dev 0.5102

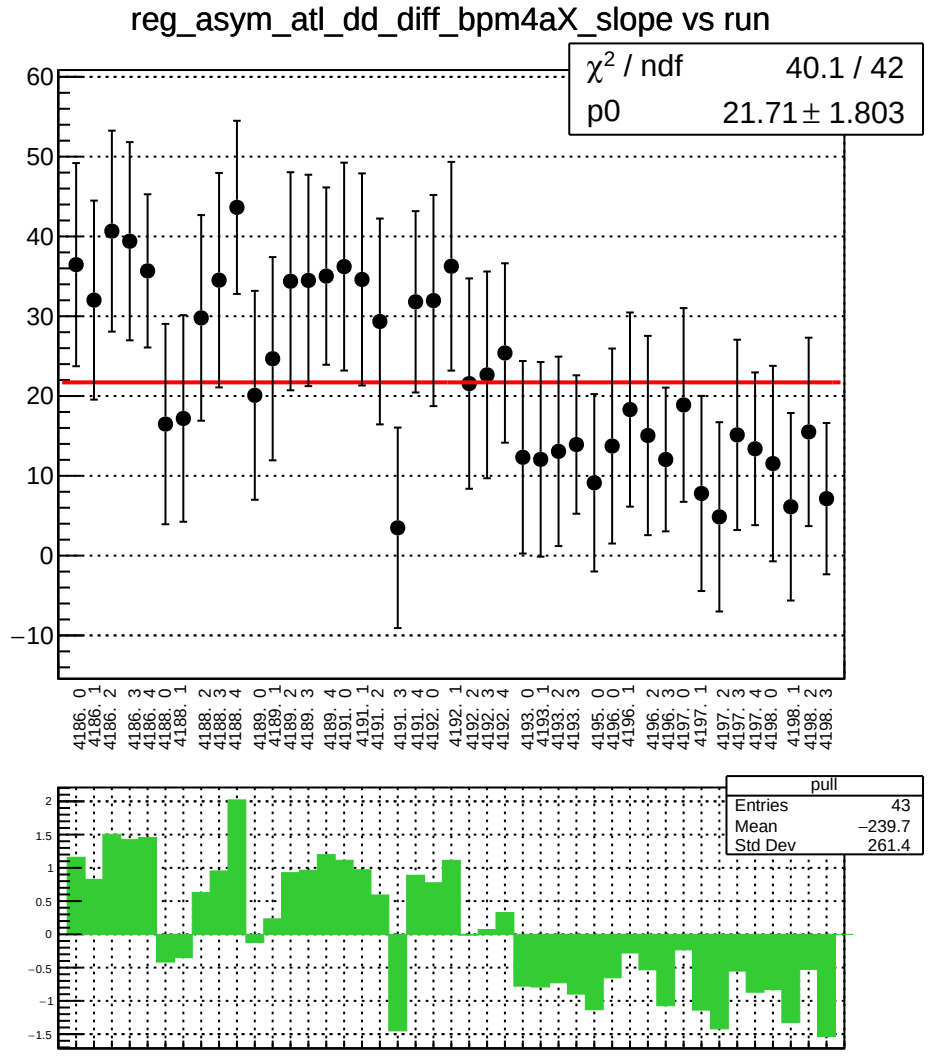

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 534.7 / 42
p0 −35.35 ± 0.117
−32
−34
−36
−38
−40
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −604.2
Std Dev 626.7
4
2
0
−2
−4
pull1D
Entries 43
Mean 0.05935
Std Dev 3.526
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

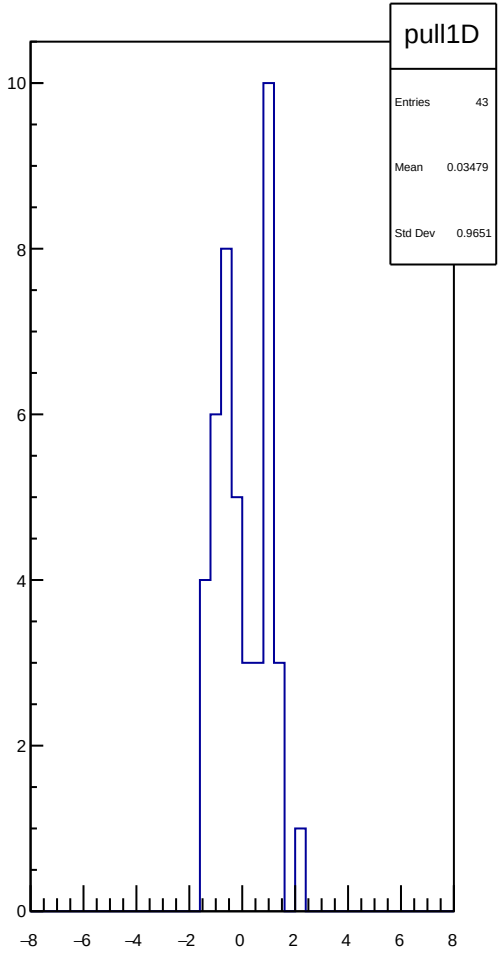

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.38 / 42
p0 4.763 ± 0.9202
pull
Entries 43
Mean 133.7
Std Dev 106.6

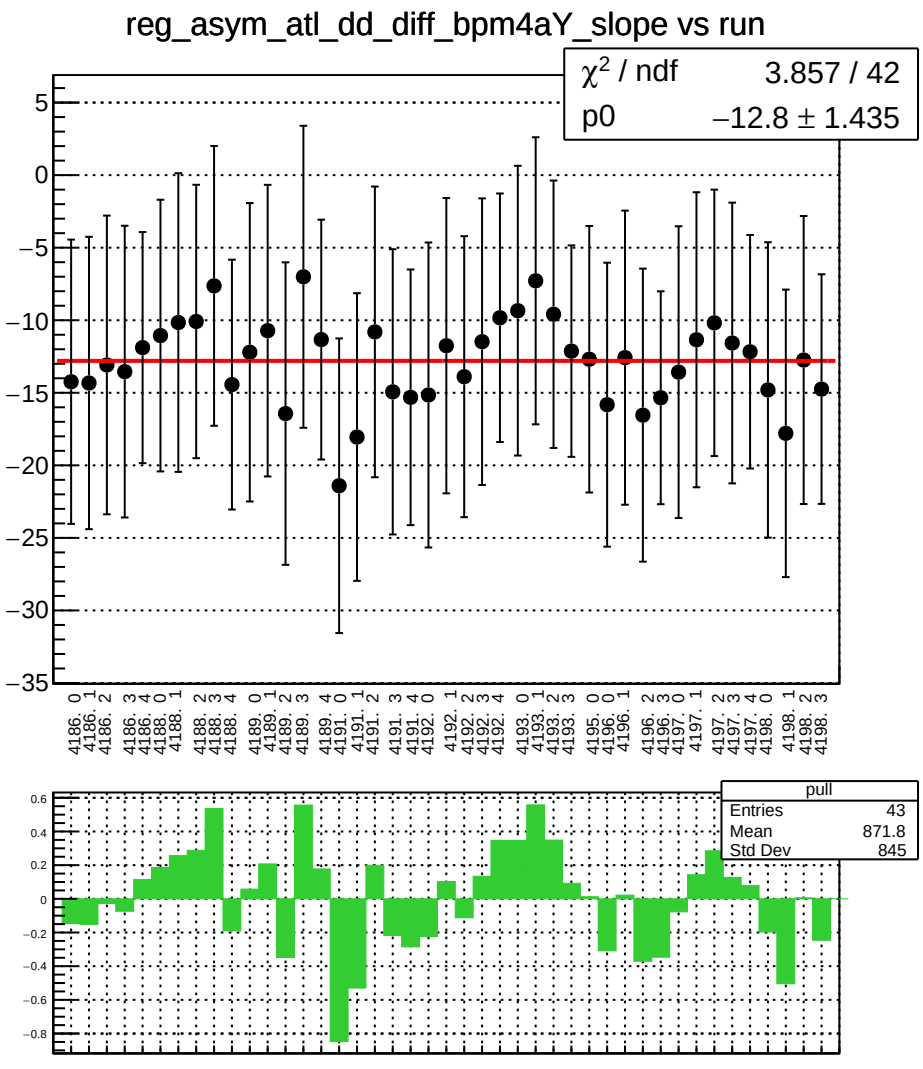

pull1D
Entries 43
Mean −0.005861
Std Dev 0.5144

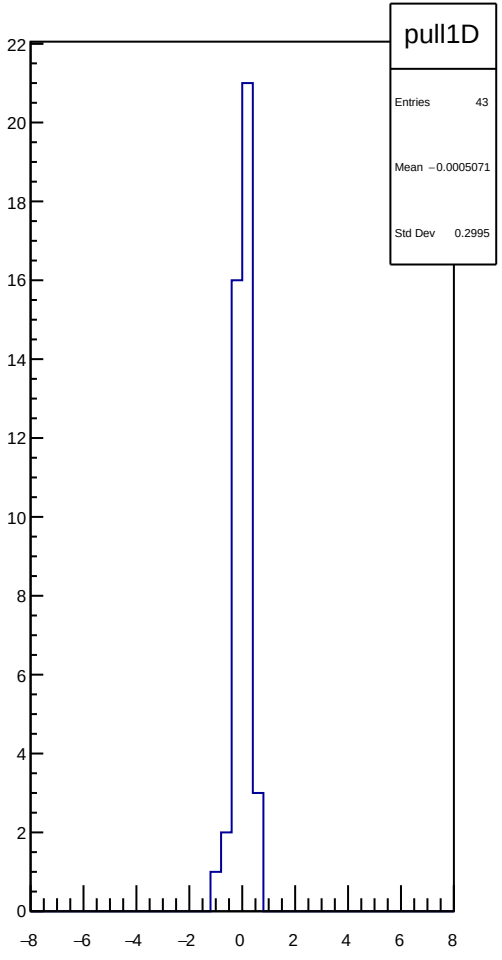

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 91.45 / 42
p0 −96.04 ± 0.1775
pull
Entries 43
Mean −55.16
Std Dev 96.25

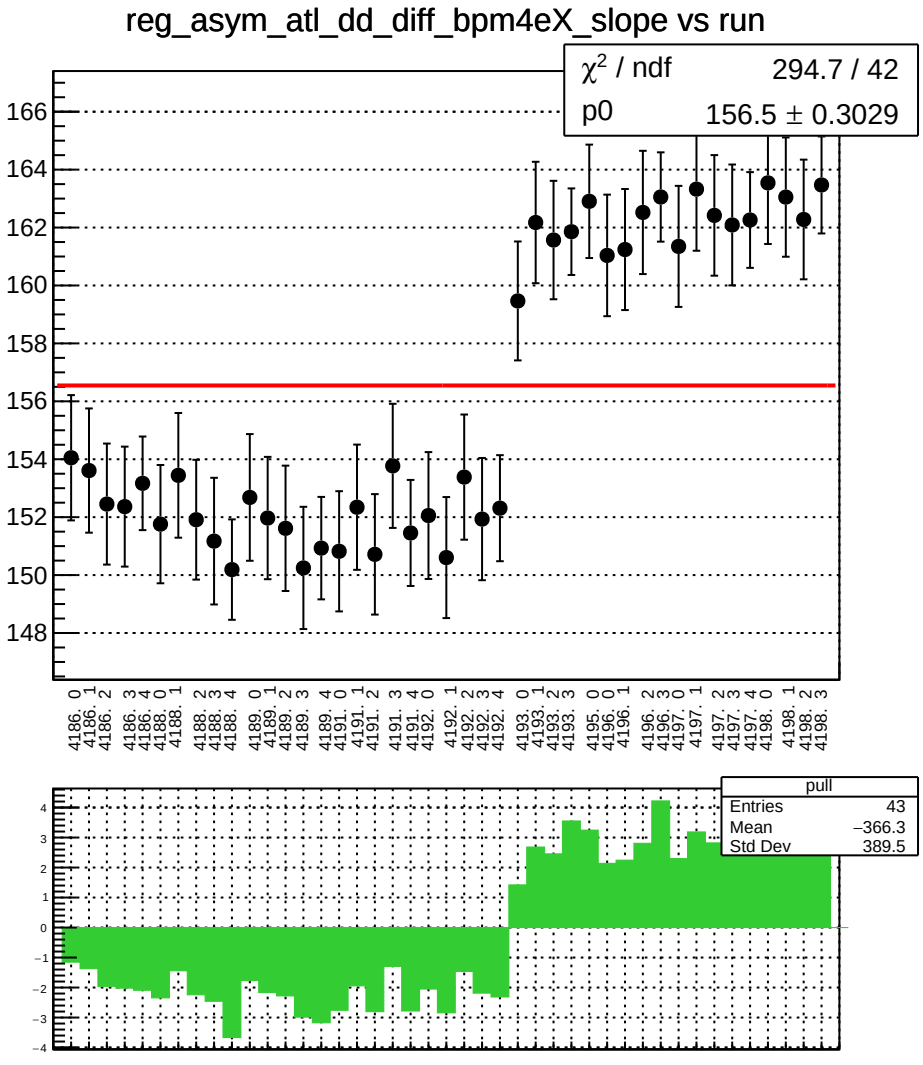

pull1D
Entries 43
Mean −0.02758
Std Dev 1.458

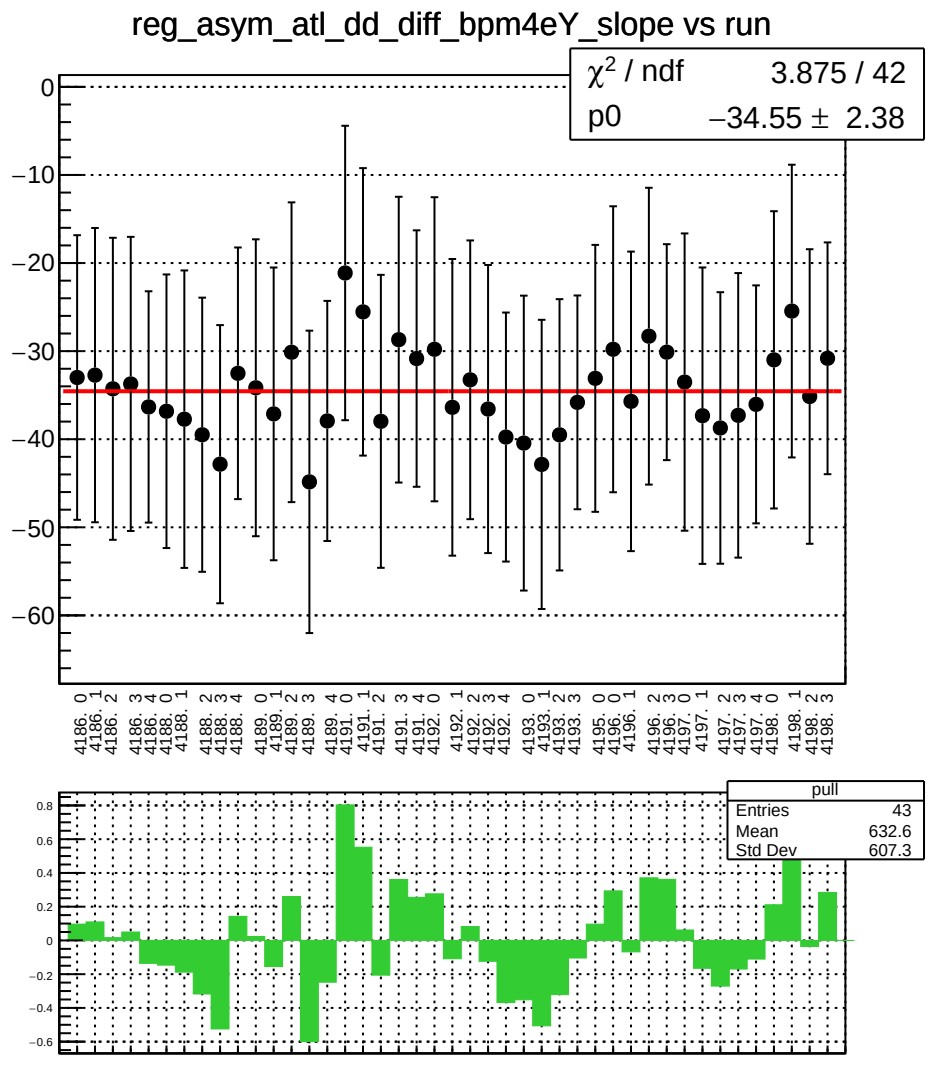

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.1 / 42
p0 21.71 ± 1.803
pull
Entries 43
Mean −239.7
Std Dev 261.4

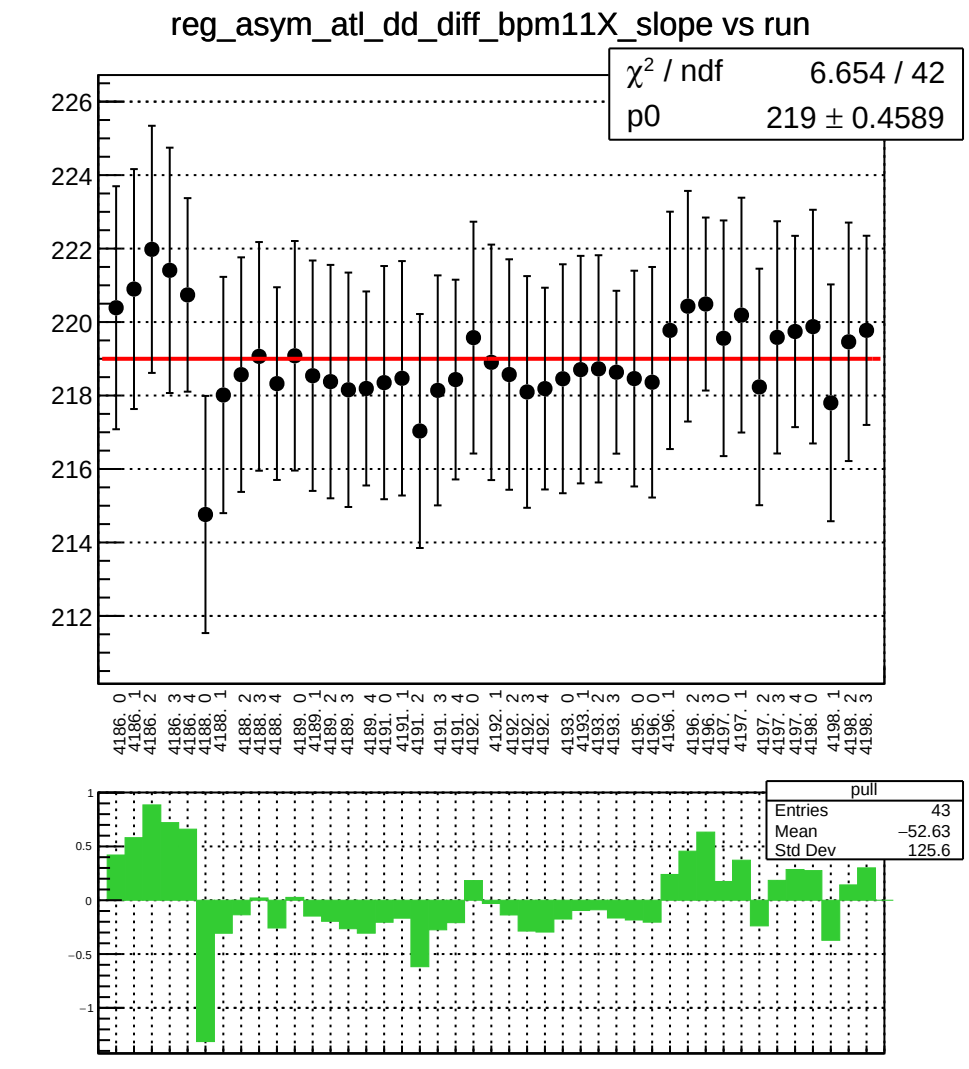

pull1D
Entries 43
Mean 0.03479
Std Dev 0.9651

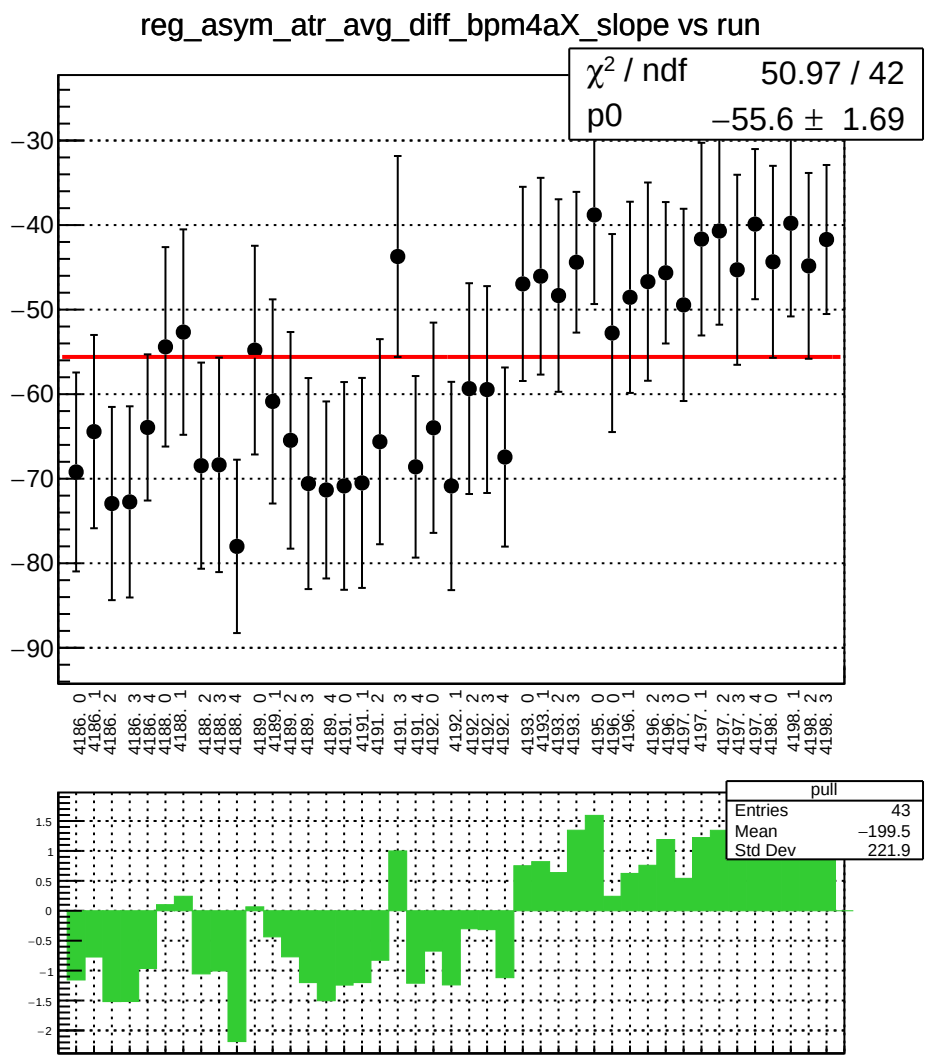

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.857 / 42
p0 −12.8 ± 1.435
pull
Entries 43
Mean 871.8
Std Dev 845

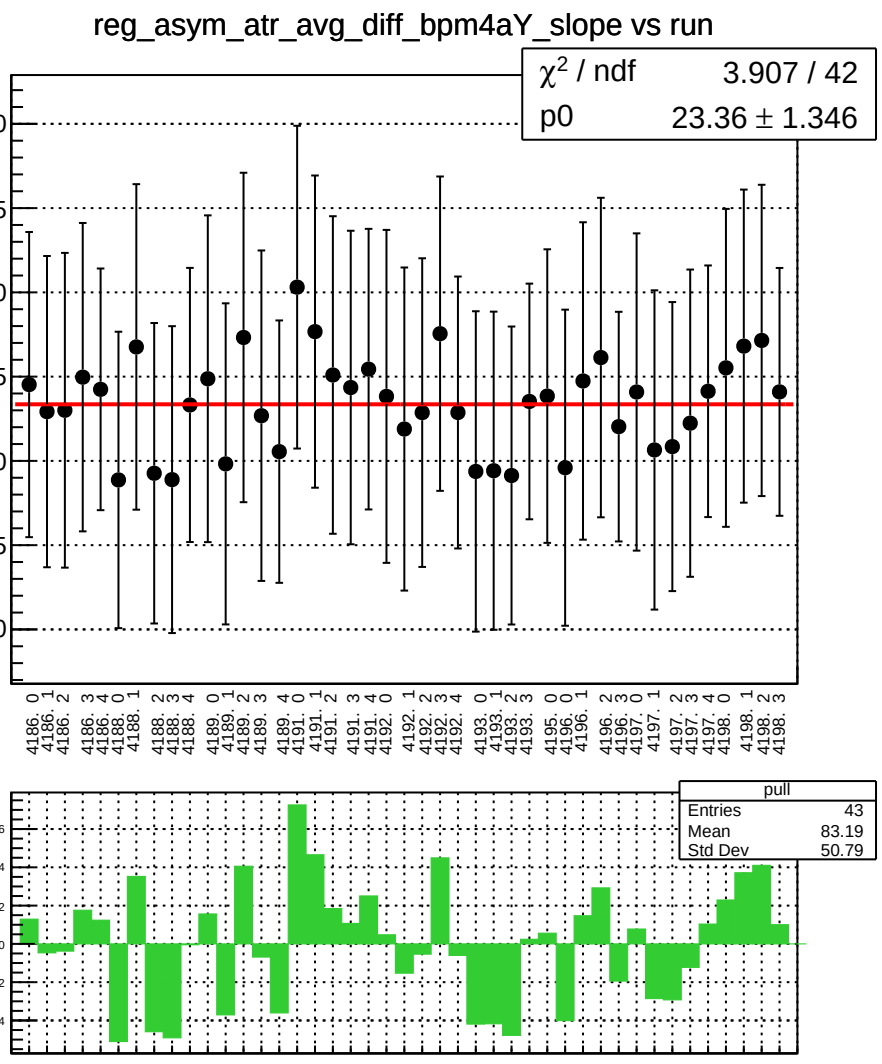

pull1D
Entries 43
Mean −0.0005071
Std Dev 0.2995

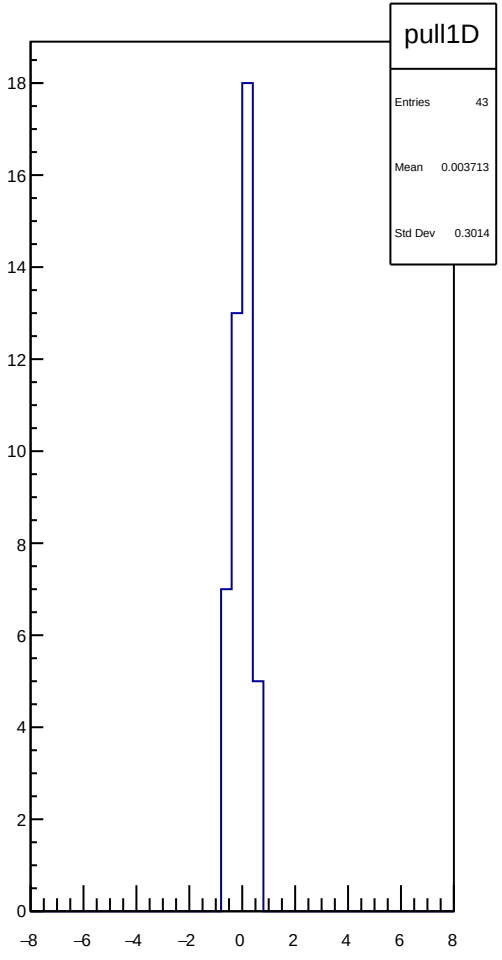

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 294.7 / 42
p0 156.5 ± 0.3029
166
164
162
160
158
156
154
152
150
148
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −366.3
Std Dev 389.5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.06951
Std Dev 2.617
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

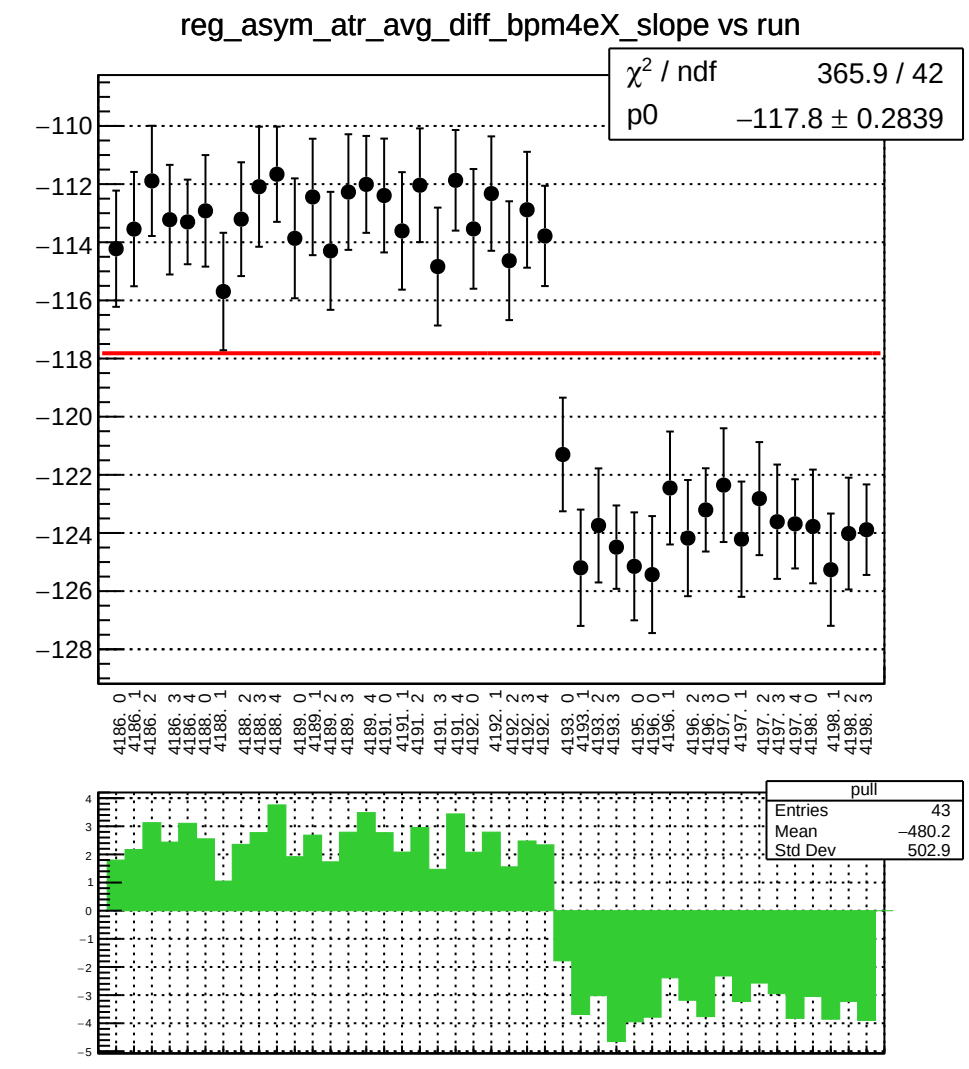

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.875 / 42
p0 −34.55 ± 2.38
0
−10
−20
−30
−40
−50
−60
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 632.6
Std Dev 607.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.0008011
Std Dev 0.3002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

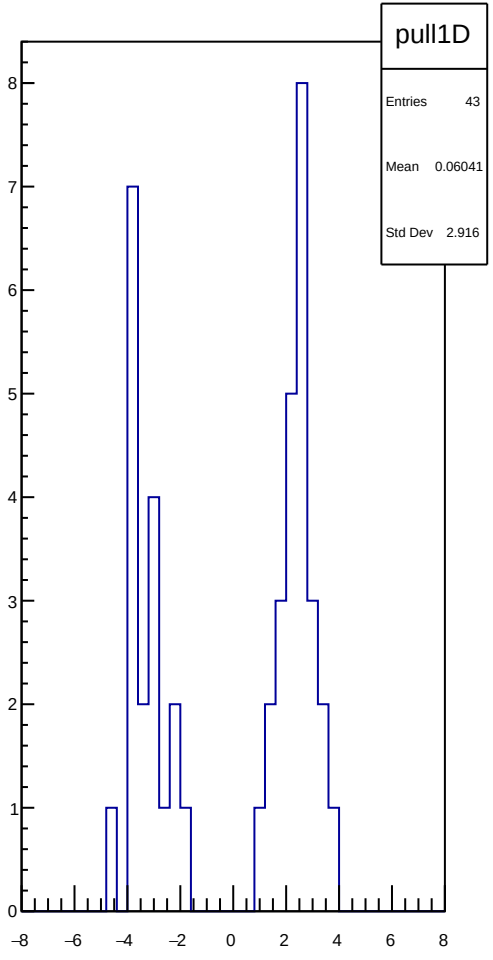

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 6.654 / 42
p0 219 ± 0.4589
226
224
222
220
218
216
214
212
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −52.63
Std Dev 125.6
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.002391
Std Dev 0.3934
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

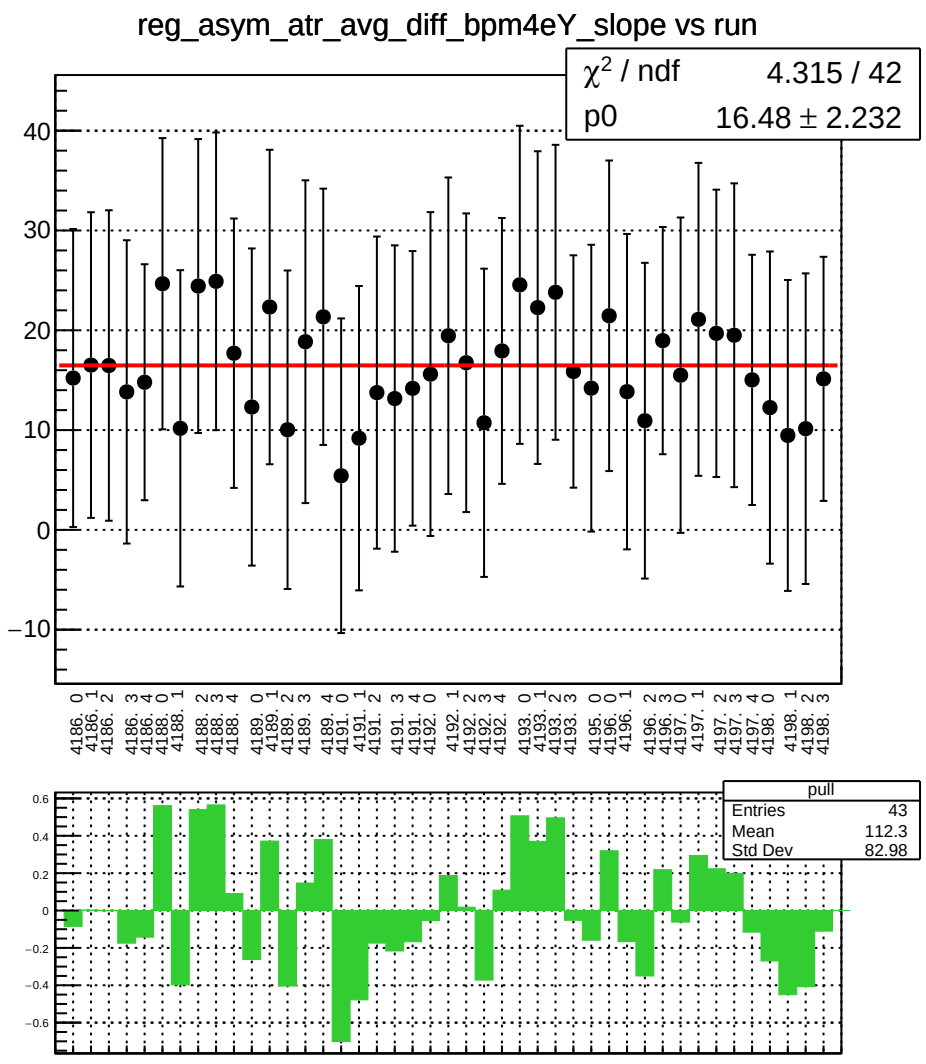

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.97 / 42
p0 −55.6 ± 1.69
−30
−40
−50
−60
−70
−80
−90
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −199.5
Std Dev 221.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04792
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

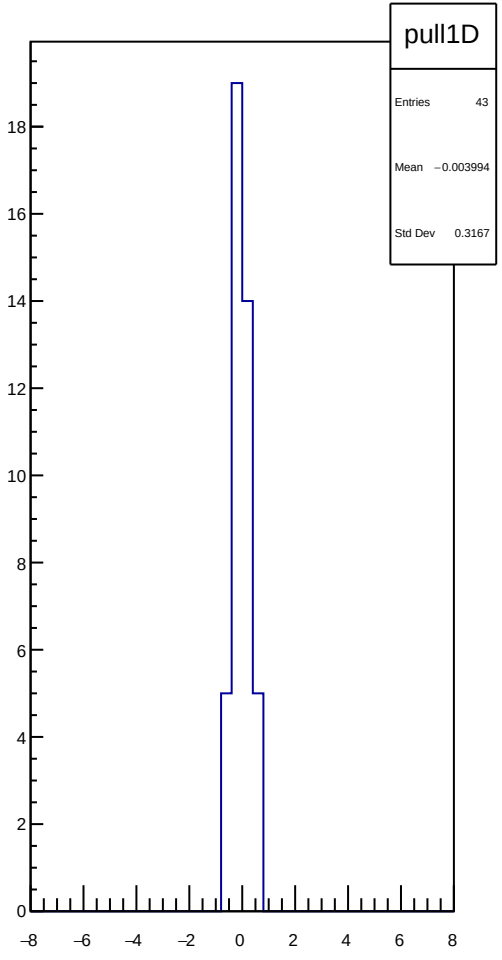

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.907 / 42
p0 23.36 ± 1.346
40
35
30
25
20
15
10
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 83.19
Std Dev 50.79
0.6
0.4
0.2
0
−0.2
−0.4

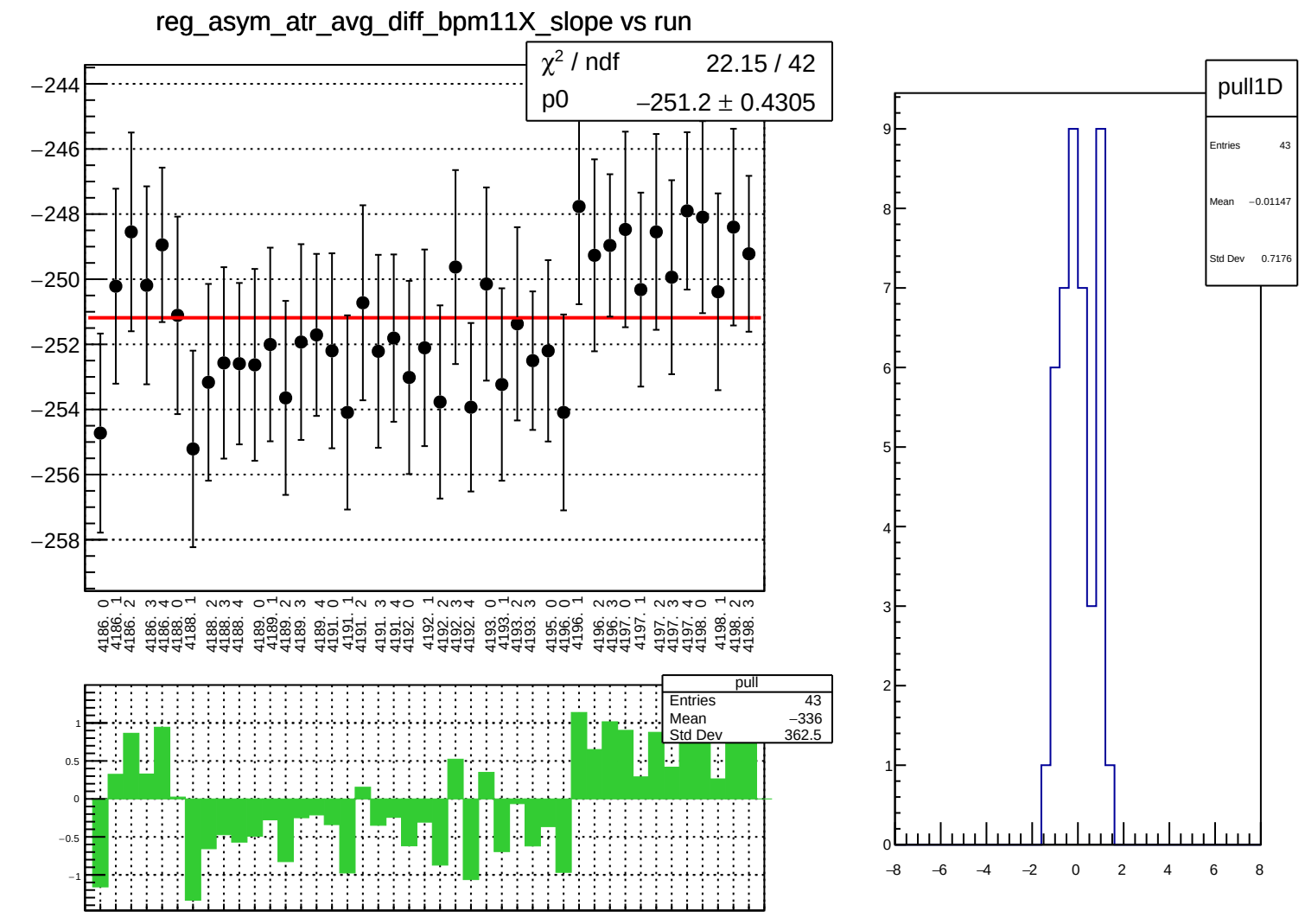

pull1D
Entries 43
Mean 0.003713
Std Dev 0.3014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

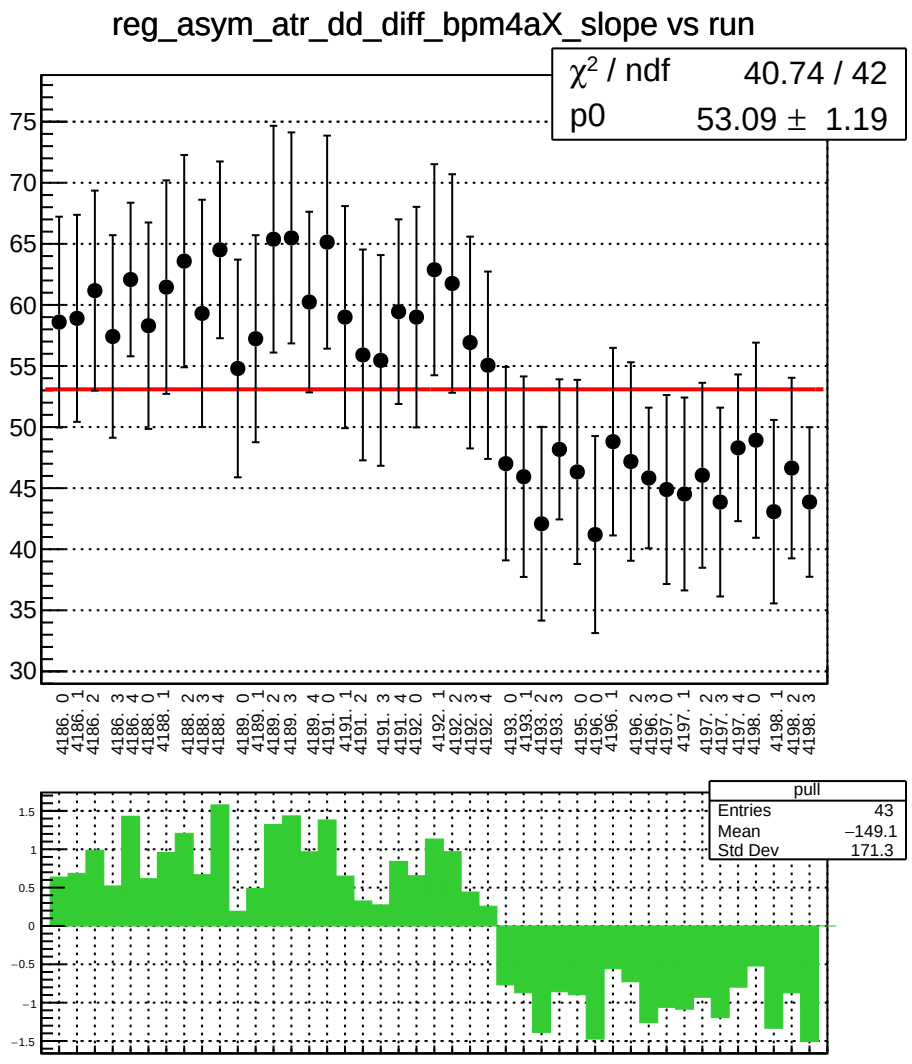

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 365.9 / 42
p0 −117.8 ± 0.2839
pull
Entries 43
Mean −480.2
Std Dev 502.9

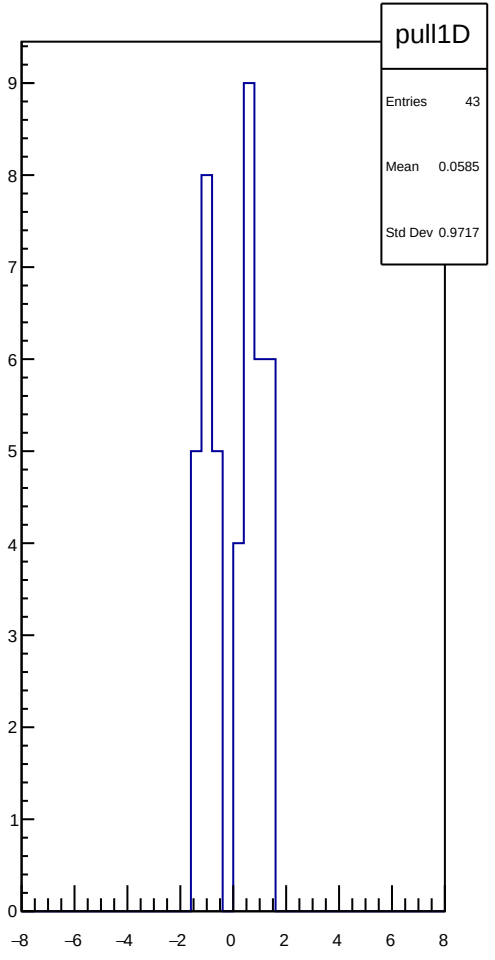

pull1D
Entries 43
Mean 0.06041
Std Dev 2.916

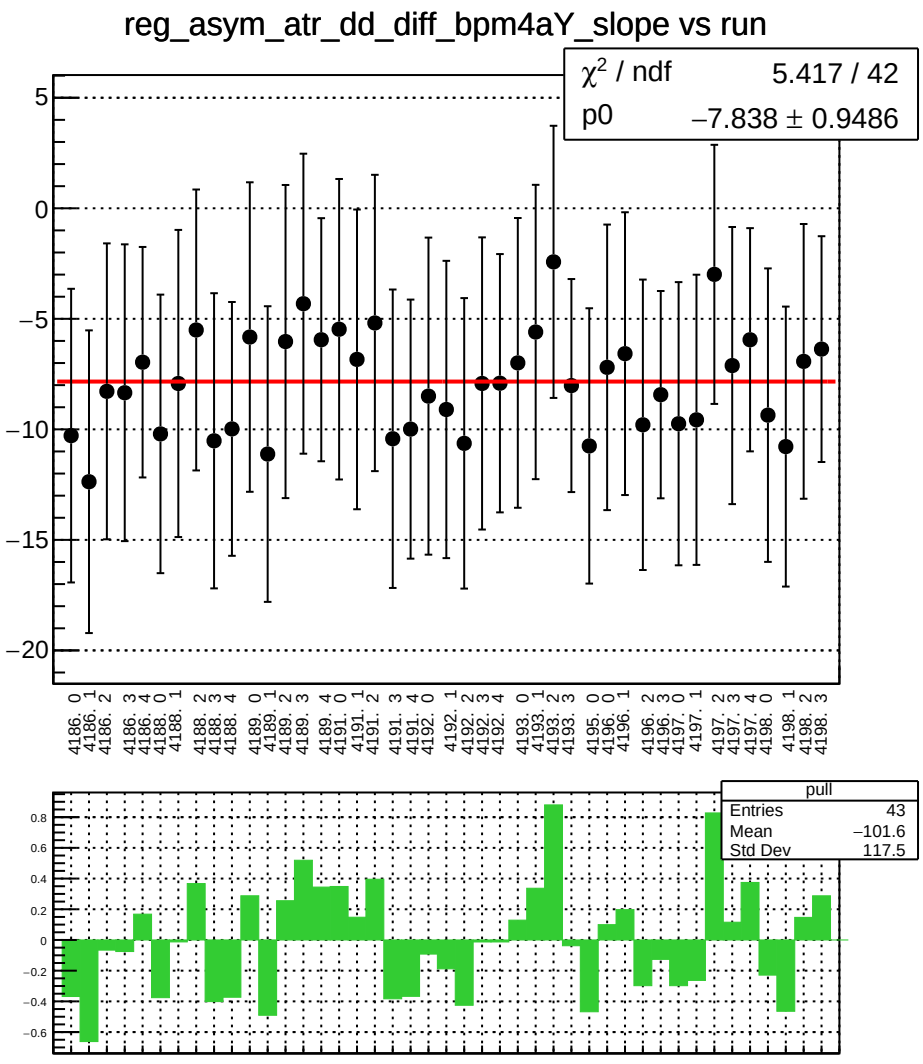

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.315 / 42
p0 16.48 ± 2.232
40
30
20
10
0
−10
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 112.3
Std Dev 82.98
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

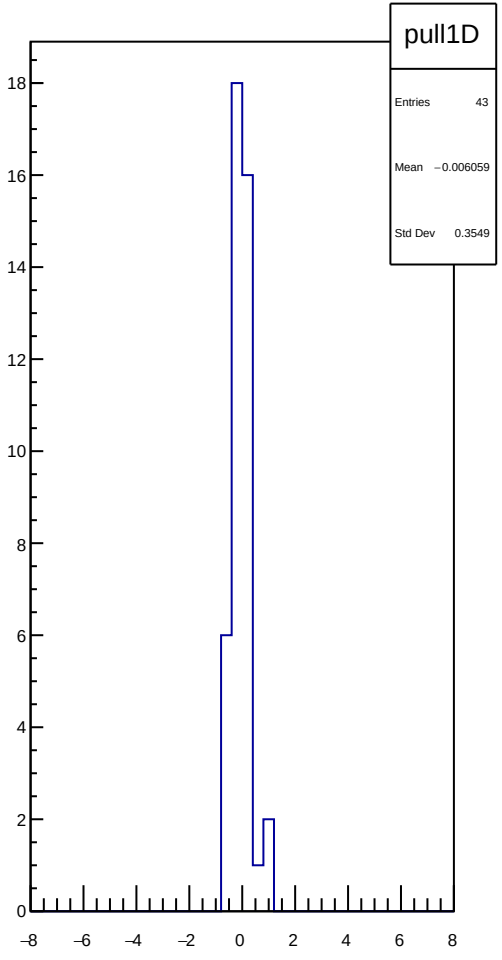

pull1D
Entries 43
Mean −0.003994
Std Dev 0.3167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

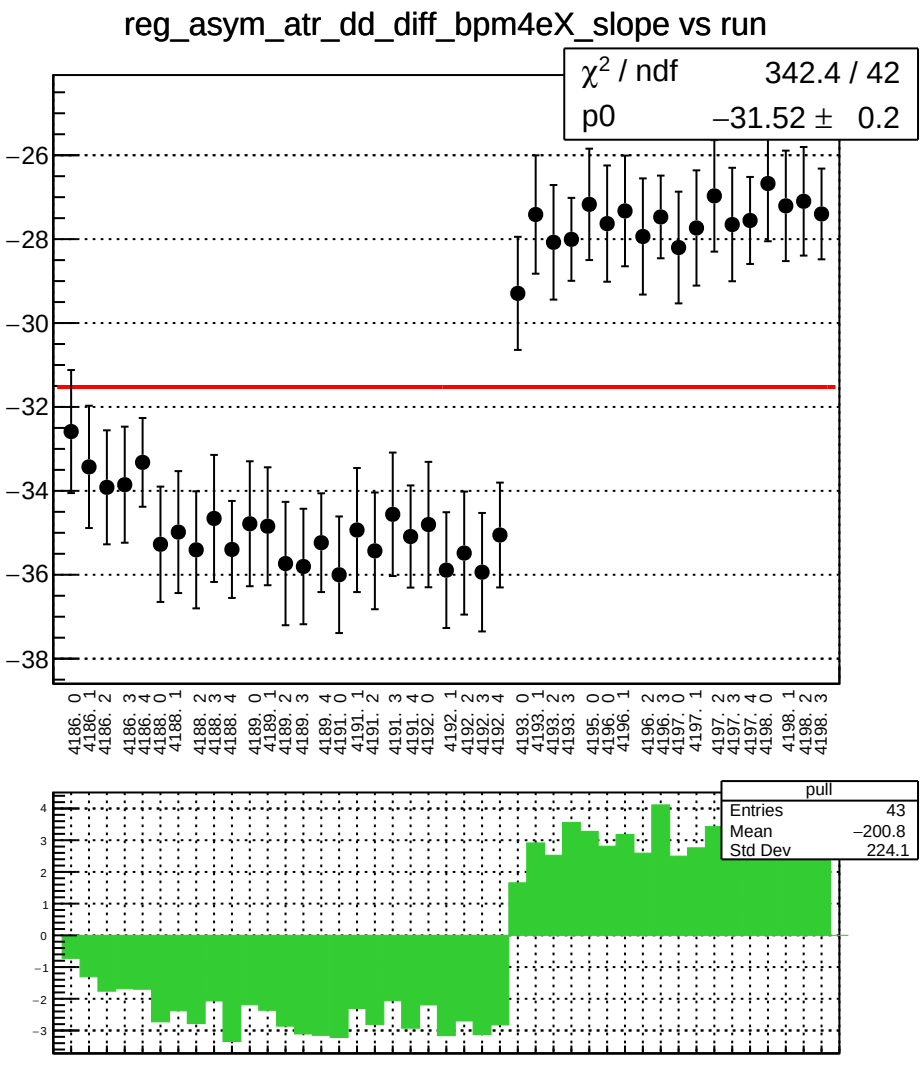

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 22.15 / 42
p0 −251.2 ± 0.4305
−244
−246
−248
−250
−252
−254
−256
−258
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −336
Std Dev 362.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01147
Std Dev 0.7176
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

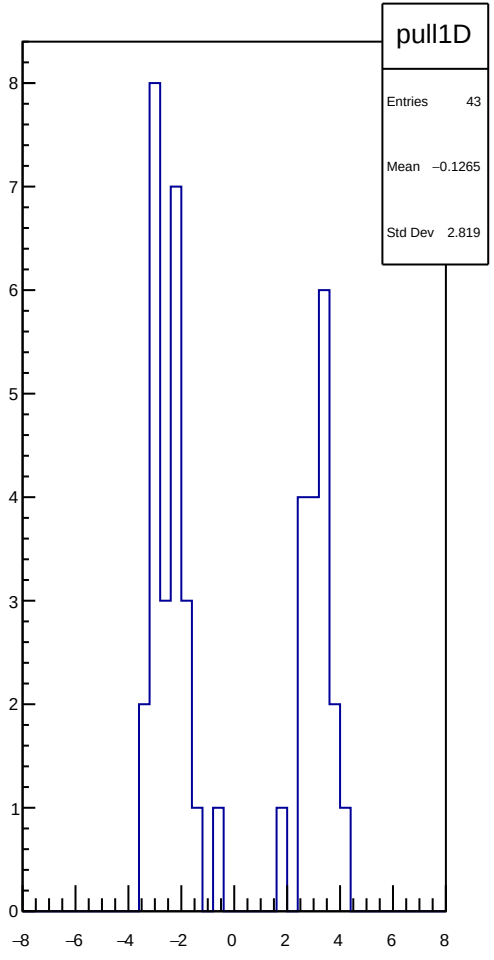

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.74 / 42
p0 53.09 ± 1.19
pull
Entries 43
Mean −149.1
Std Dev 171.3

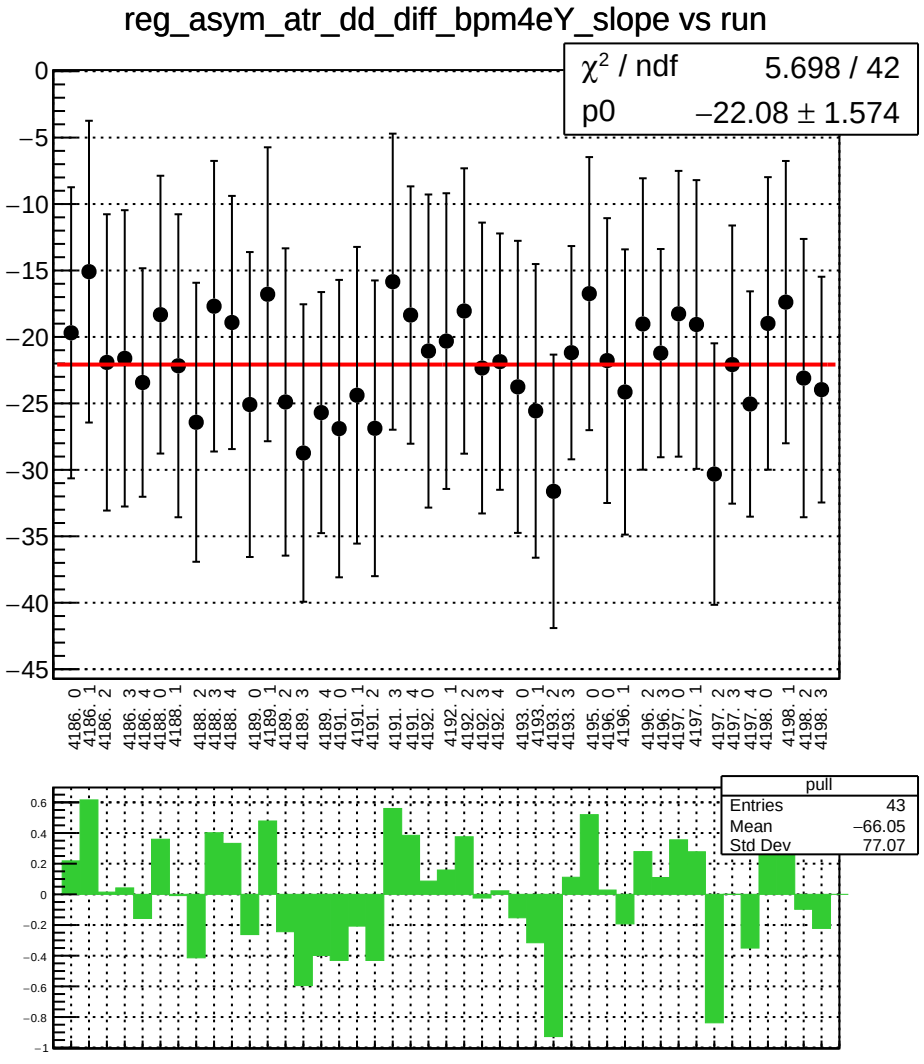

pull1D
Entries 43
Mean 0.0585
Std Dev 0.9717

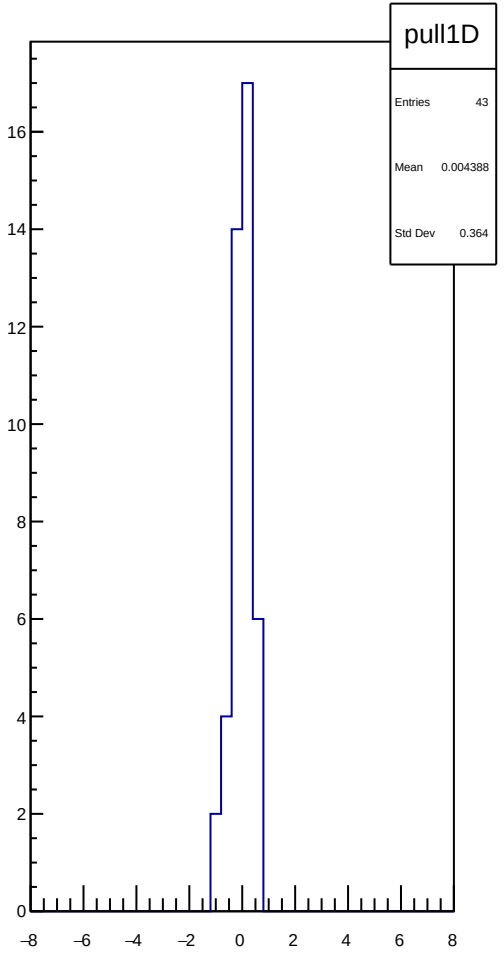

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.417 / 42
p0 −7.838 ± 0.9486
pull
Entries 43
Mean −101.6
Std Dev 117.5

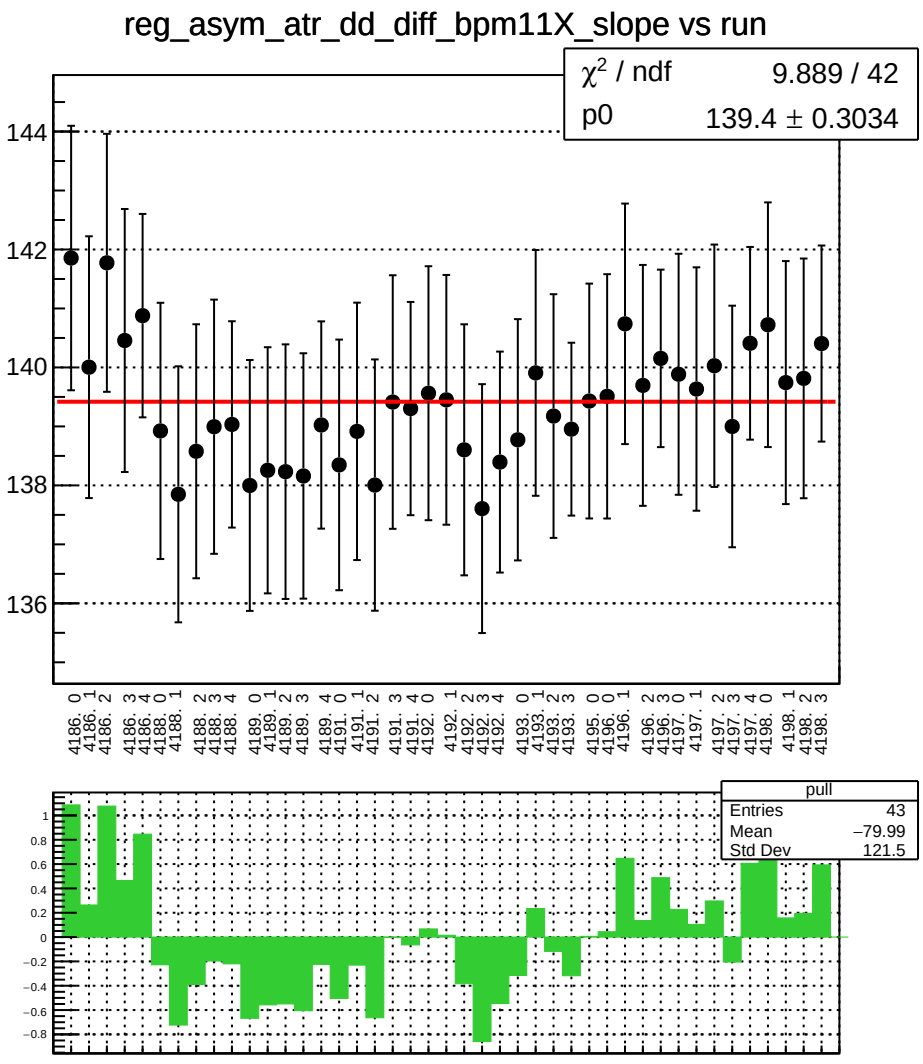

pull1D
Entries 43
Mean −0.006059
Std Dev 0.3549

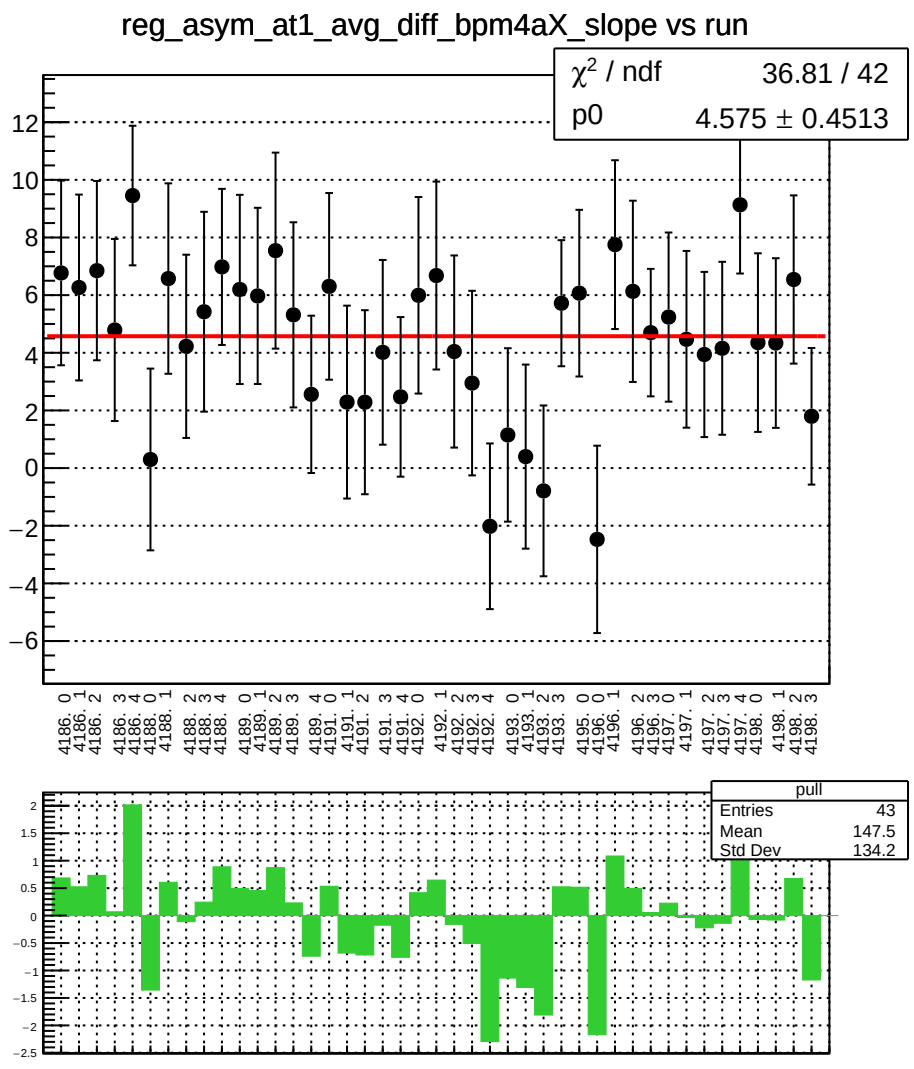

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 342.4 / 42
p0 −31.52 ± 0.2
−26
−28
−30
−32
−34
−36
−38
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −200.8
Std Dev 224.1
4
3
2
1
0
−1
−2
−3

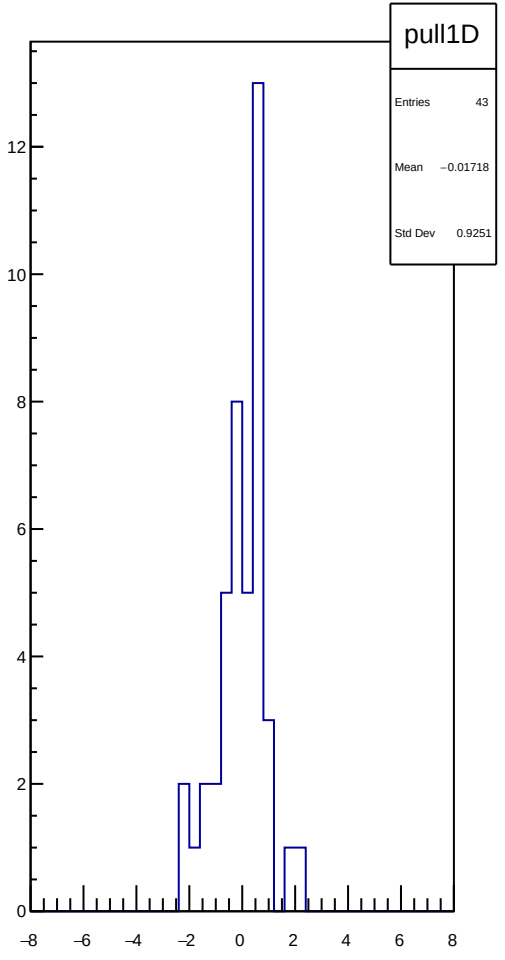

pull1D
Entries 43
Mean −0.1265
Std Dev 2.819
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

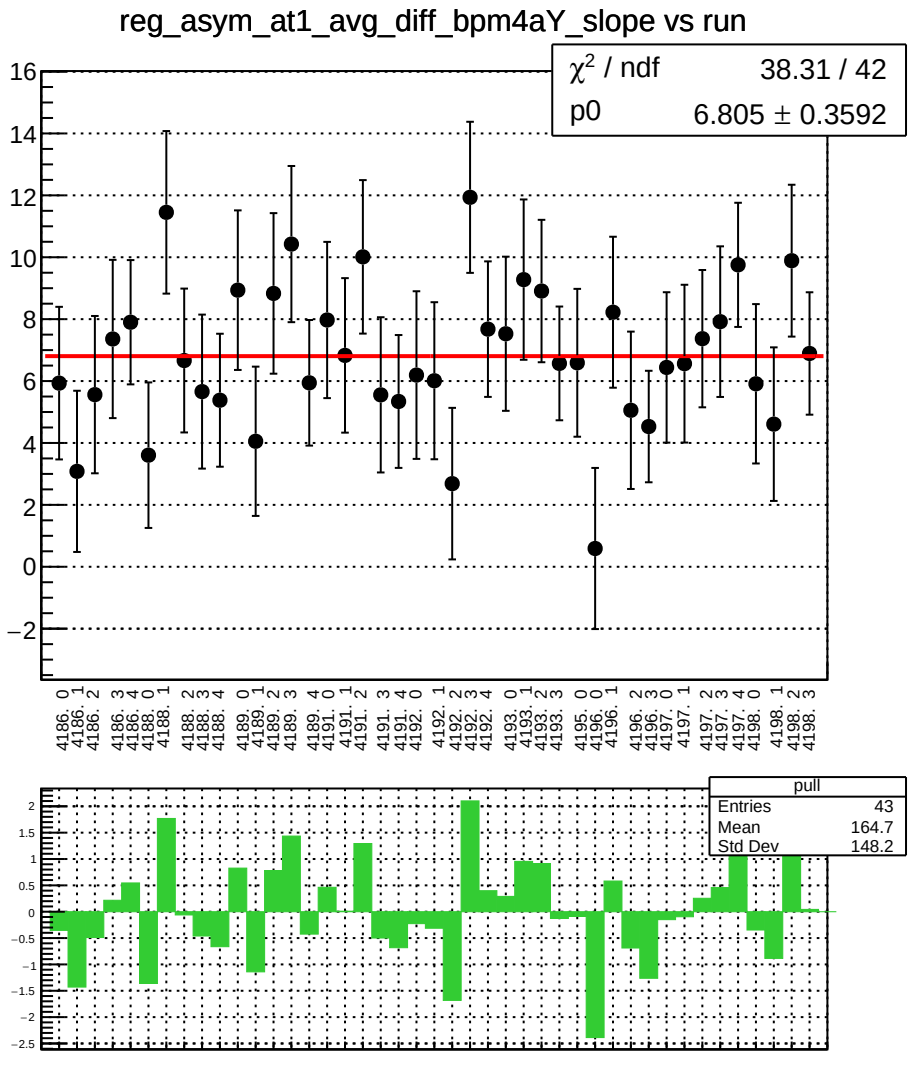

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.698 / 42
p0 −22.08 ± 1.574
pull
Entries 43
Mean −66.05
Std Dev 77.07

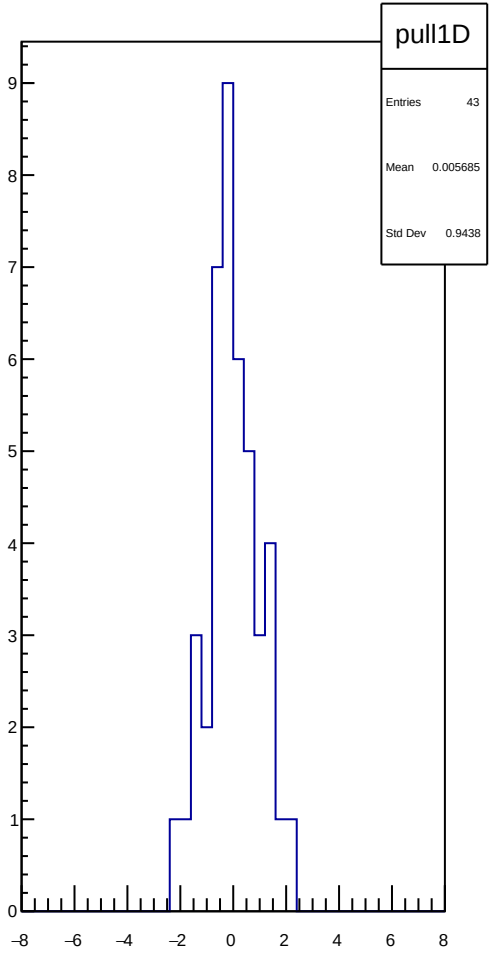

pull1D
Entries 43
Mean 0.004388
Std Dev 0.364

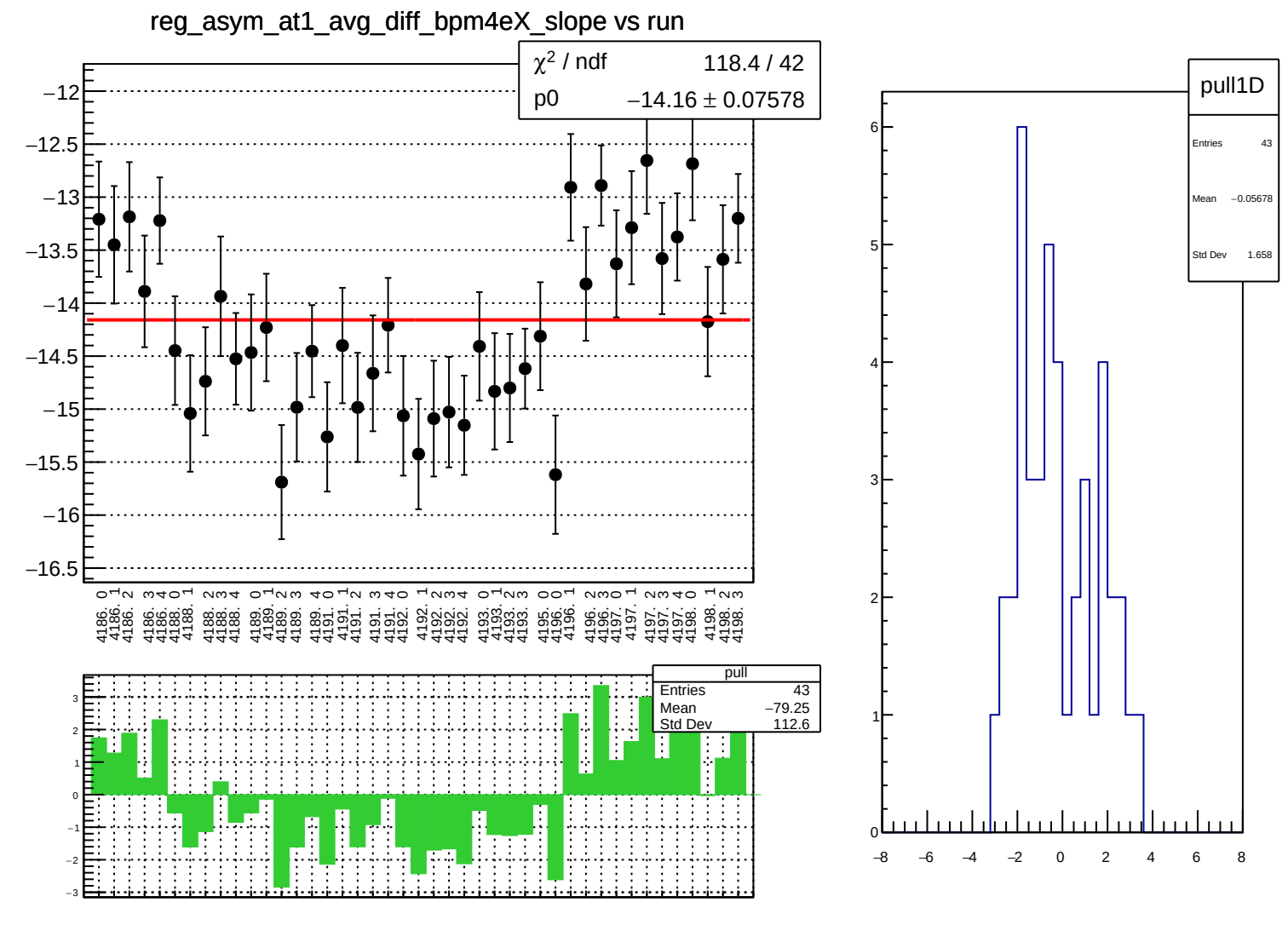

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 9.889 / 42
p0 139.4 ± 0.3034
144
142
140
138
136
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −79.99
Std Dev 121.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.008958
Std Dev 0.4795
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

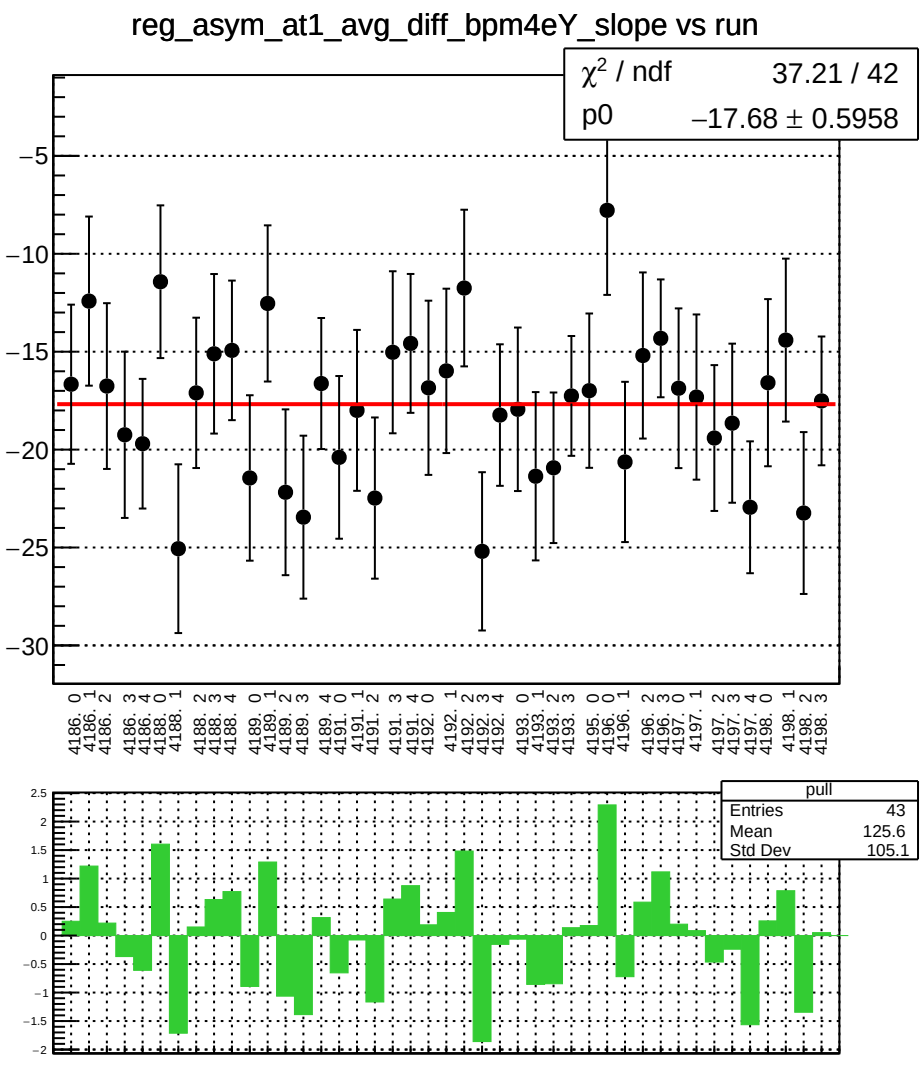

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.81 / 42
p0 4.575 ± 0.4513
pull
Entries 43
Mean 147.5
Std Dev 134.2

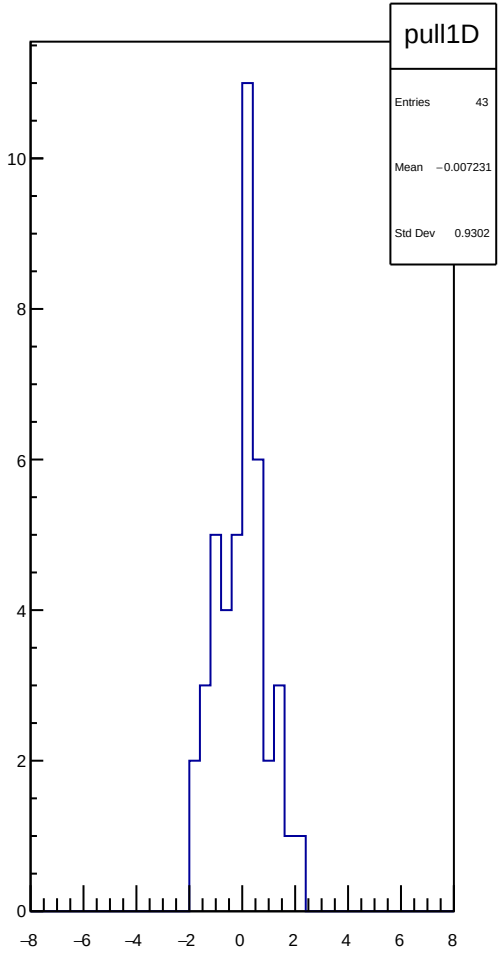

pull1D
Entries 43
Mean −0.01718
Std Dev 0.9251

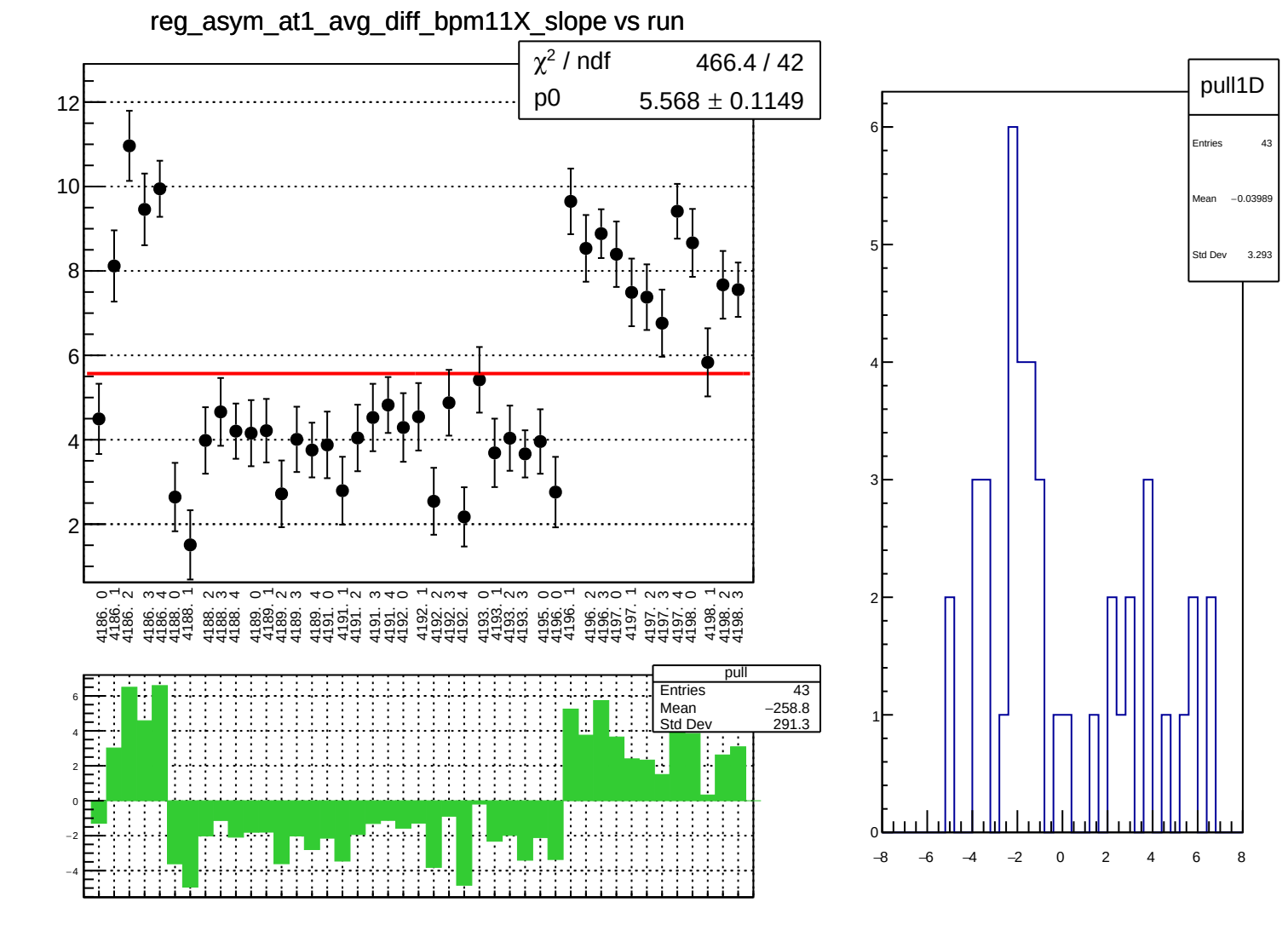

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.31 / 42
p0 6.805 ± 0.3592
pull
Entries 43
Mean 164.7
Std Dev 148.2

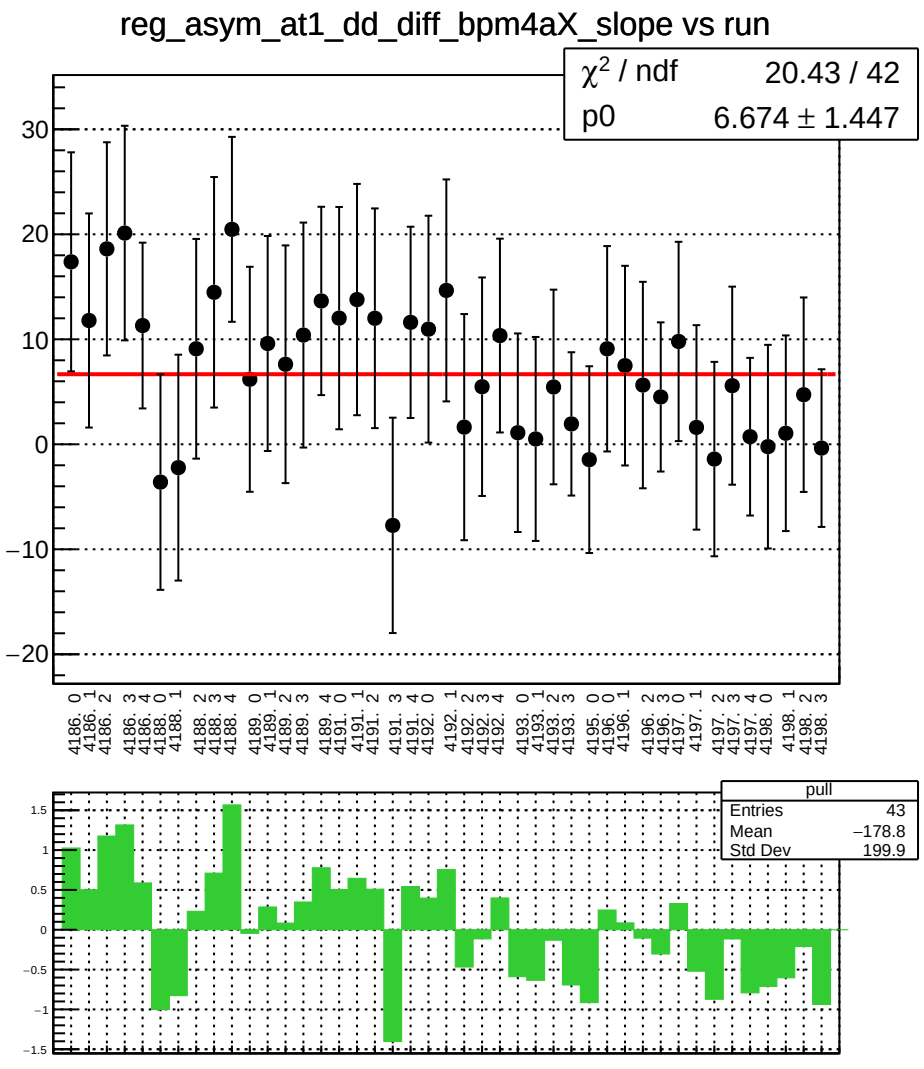

pull1D
Entries 43
Mean 0.005685
Std Dev 0.9438

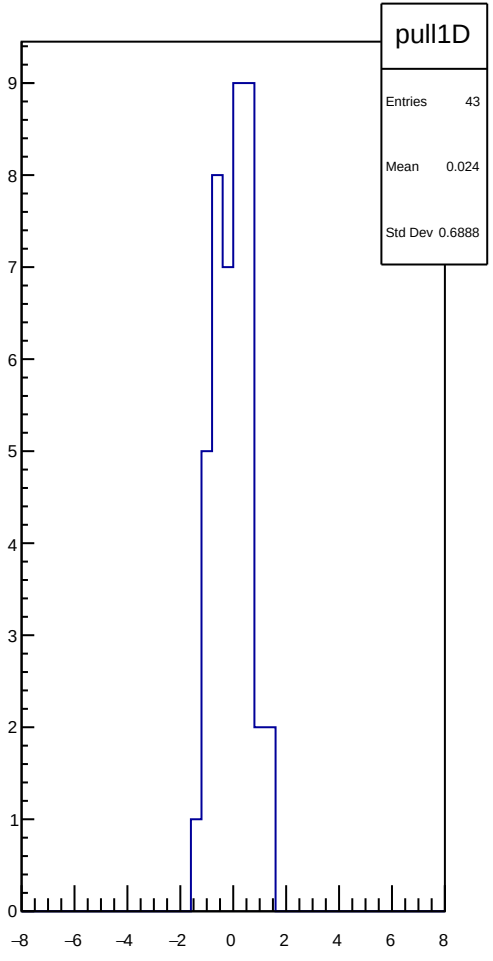

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 118.4 / 42
p0 −14.16 ± 0.07578
pull
Entries 43
Mean −79.25
Std Dev 112.6
pull1D
Entries 43
Mean −0.05678
Std Dev 1.658

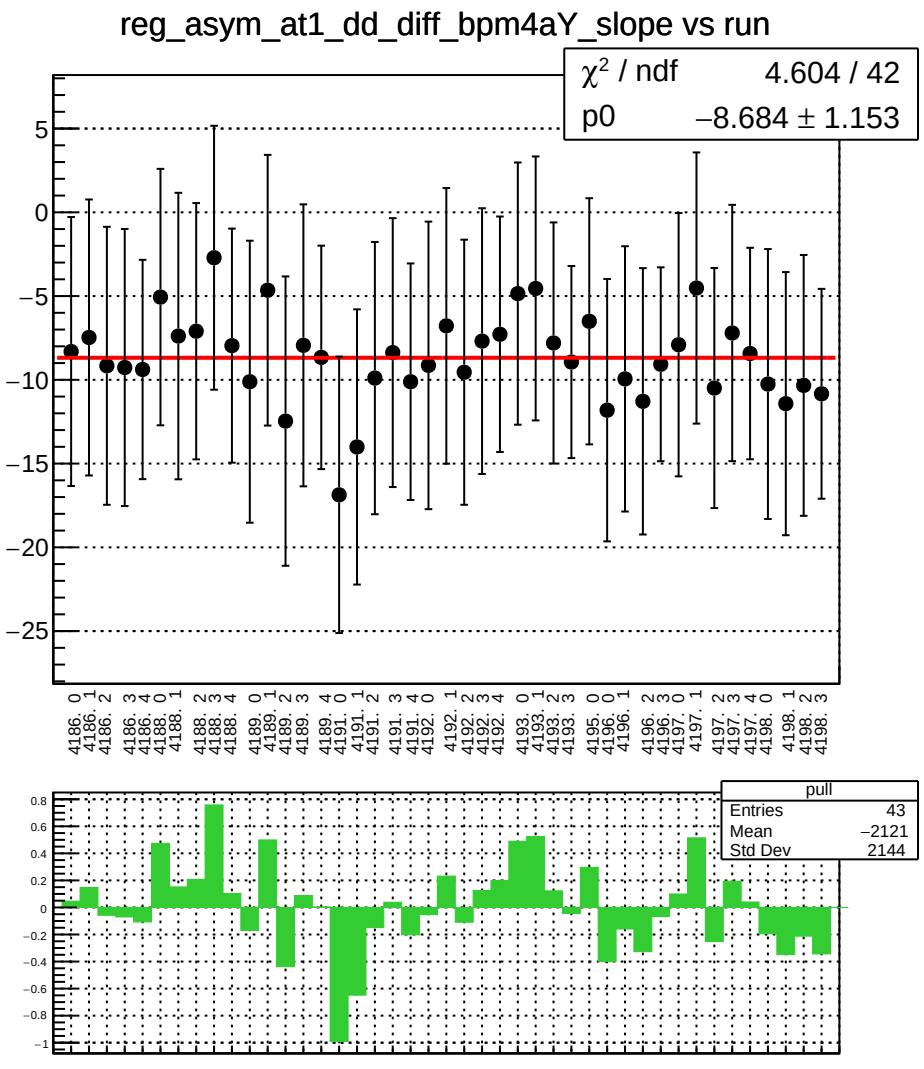

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.21 / 42
p0 −17.68 ± 0.5958
pull
Entries 43
Mean 125.6
Std Dev 105.1

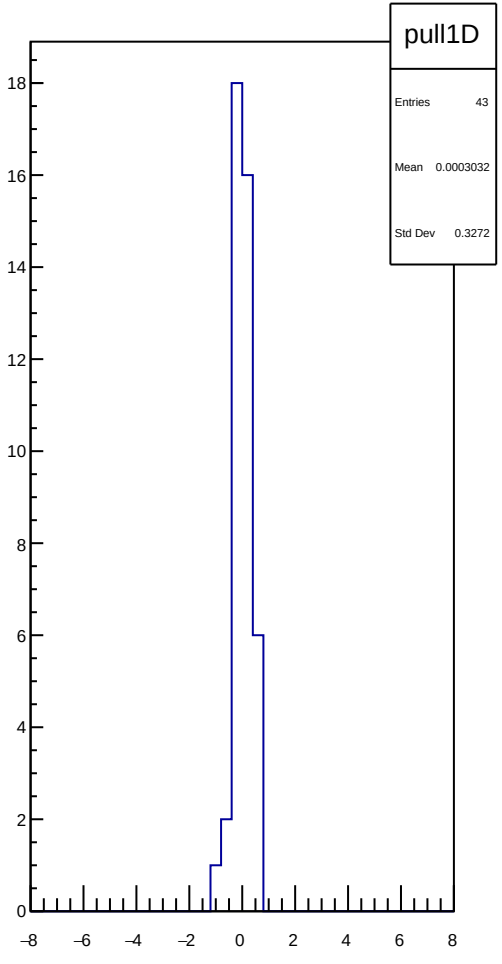

pull1D
Entries 43
Mean −0.007231
Std Dev 0.9302

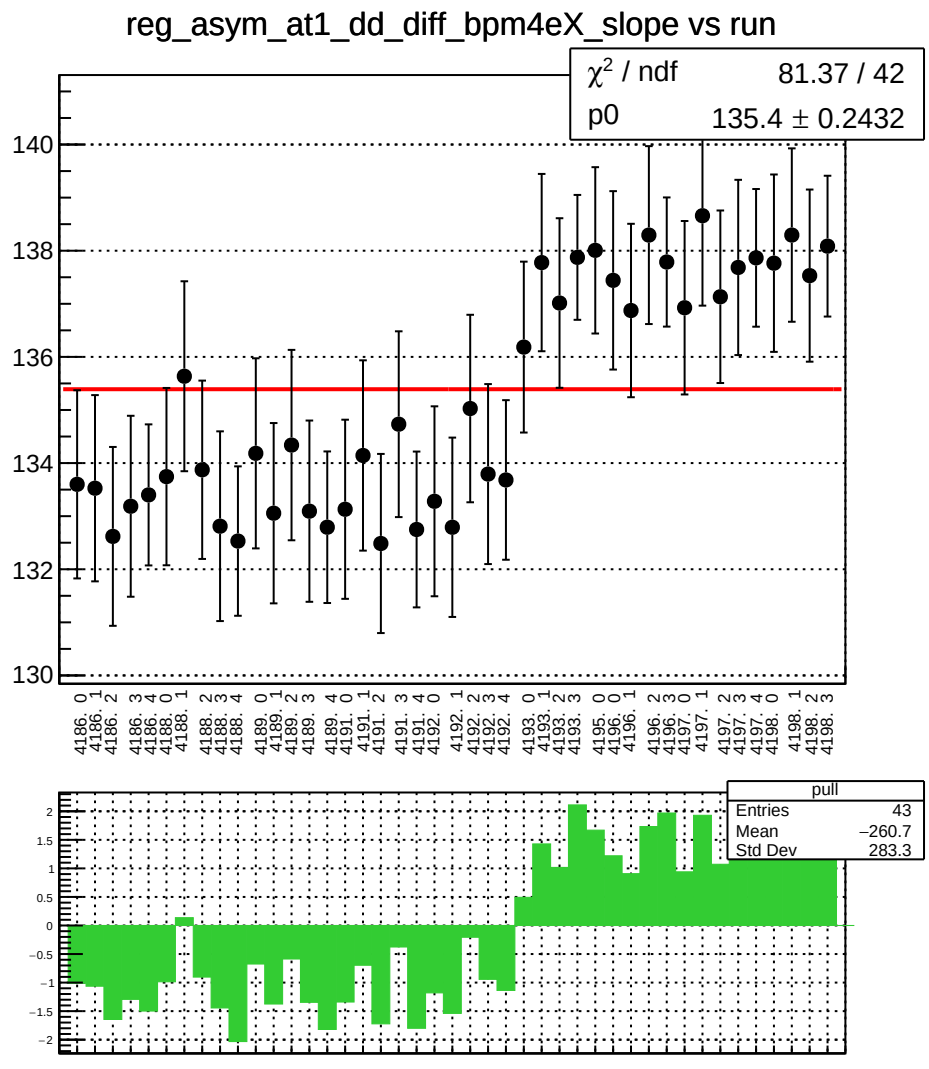

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 466.4 / 42
p0 5.568 ± 0.1149
pull
Entries 43
Mean −258.8
Std Dev 291.3
pull1D
Entries 43
Mean −0.03989
Std Dev 3.293

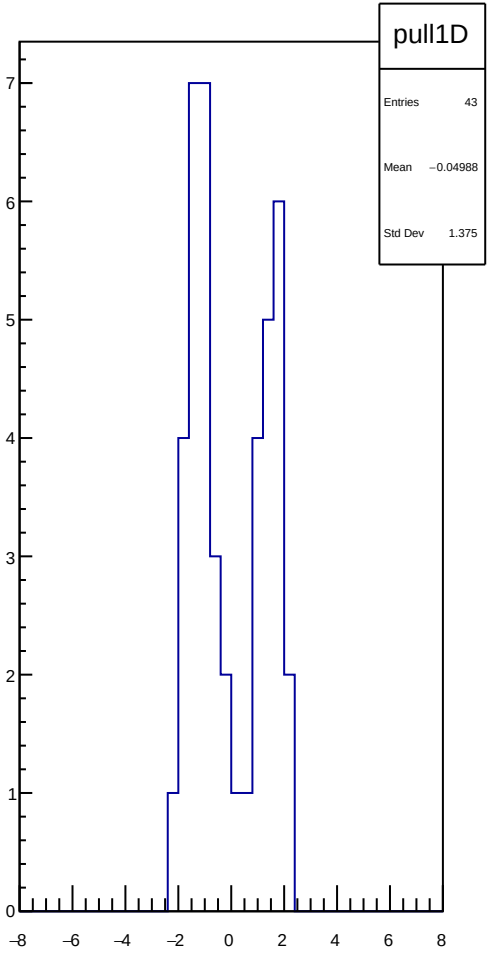

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.43 / 42
p0 6.674 ± 1.447
pull
Entries 43
Mean −178.8
Std Dev 199.9

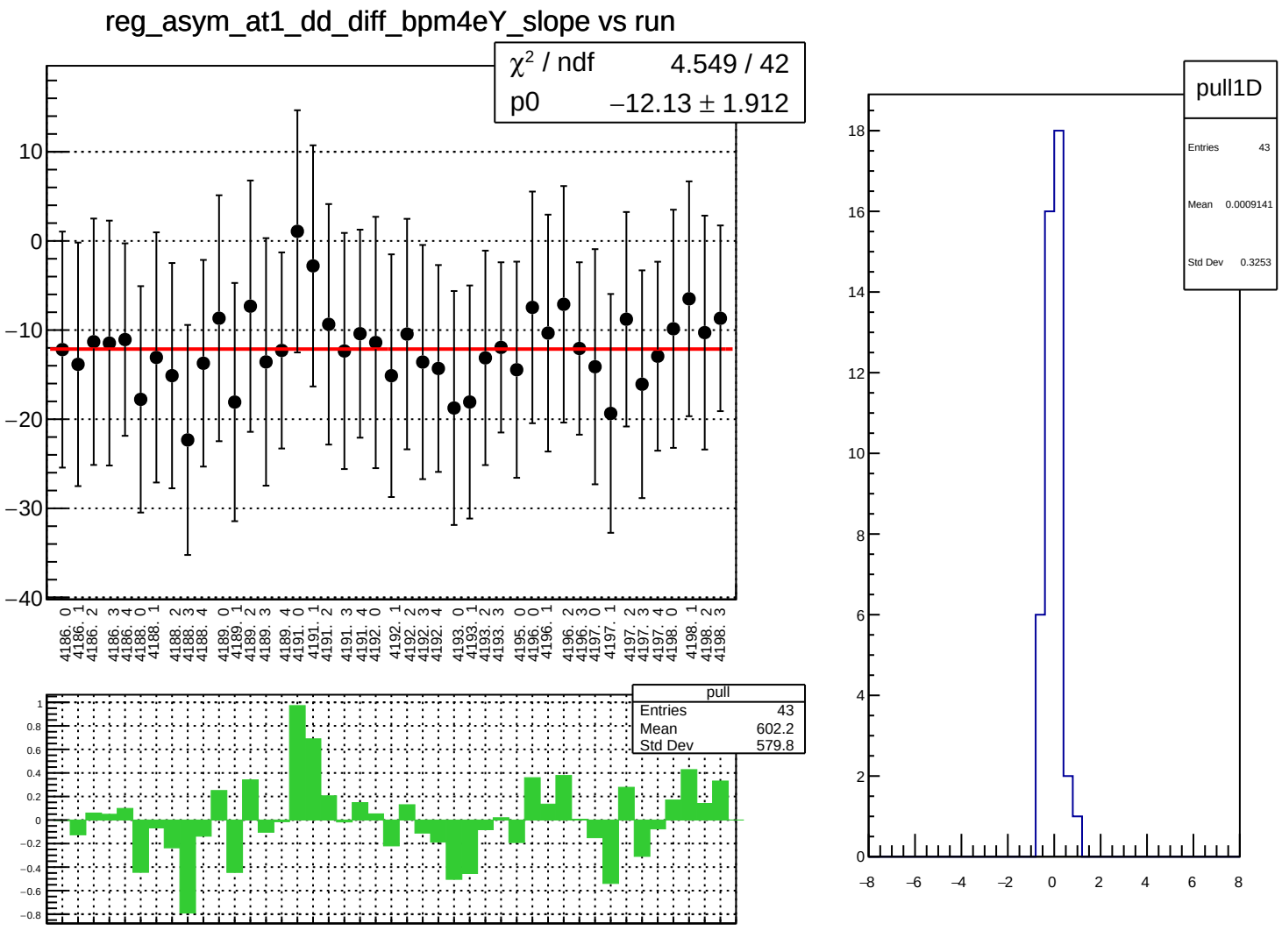

pull1D
Entries 43
Mean 0.024
Std Dev 0.6888

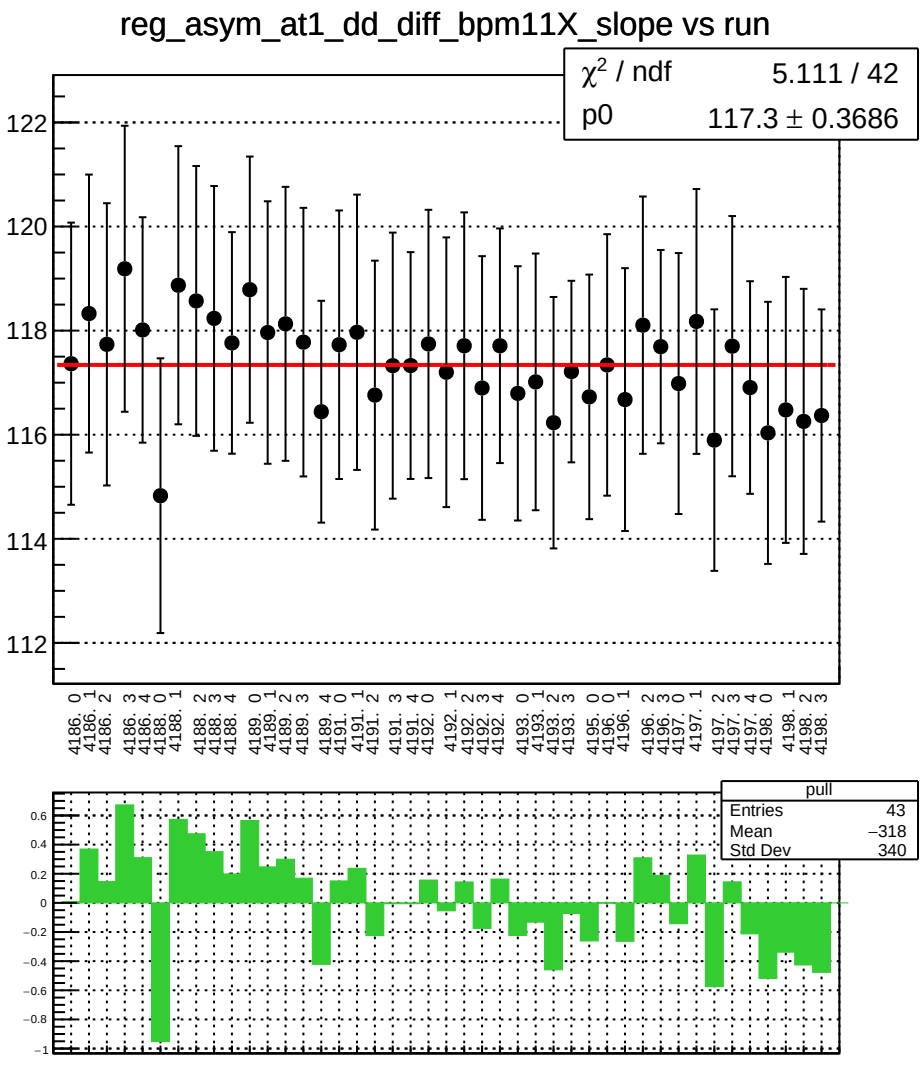

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.604 / 42
p0 −8.684 ± 1.153
pull
Entries 43
Mean −2121
Std Dev 2144

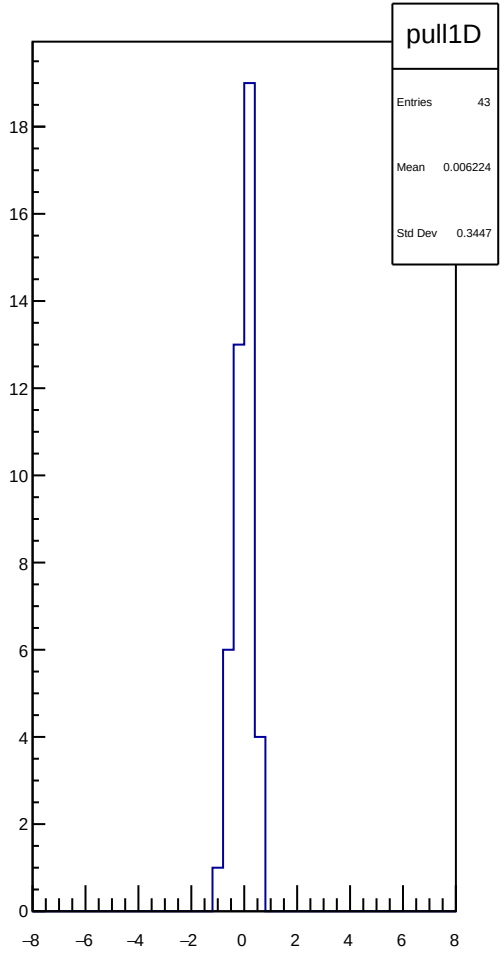

pull1D
Entries 43
Mean 0.0003032
Std Dev 0.3272

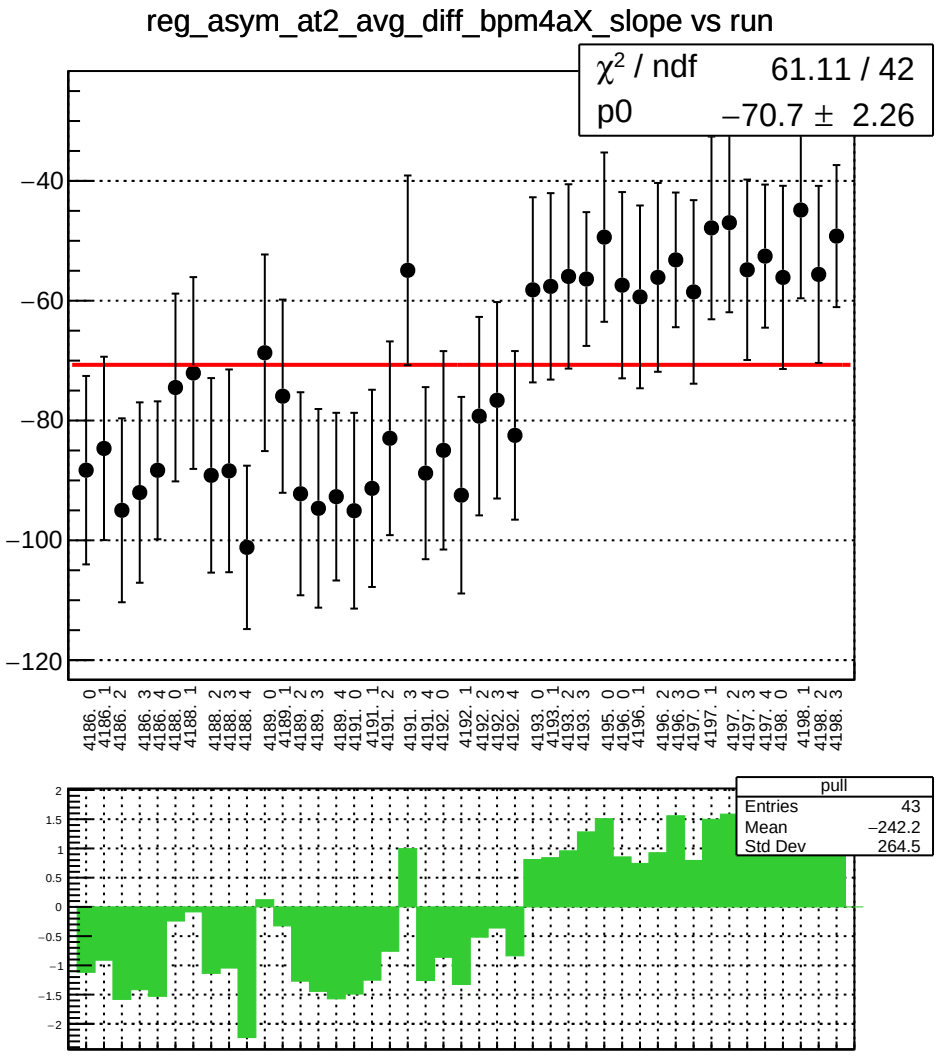

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.37 / 42
p0 135.4 ± 0.2432
140
138
136
134
132
130
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −260.7
Std Dev 283.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

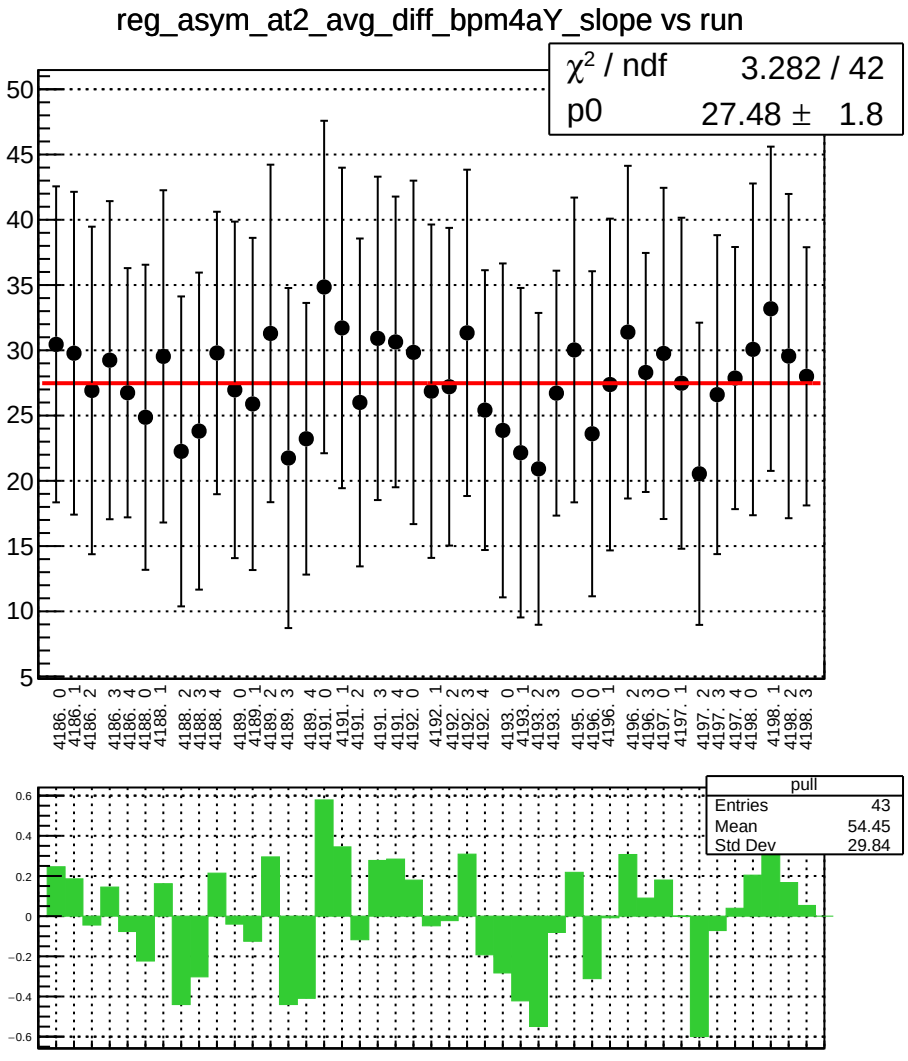

pull1D
Entries 43
Mean −0.04988
Std Dev 1.375
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

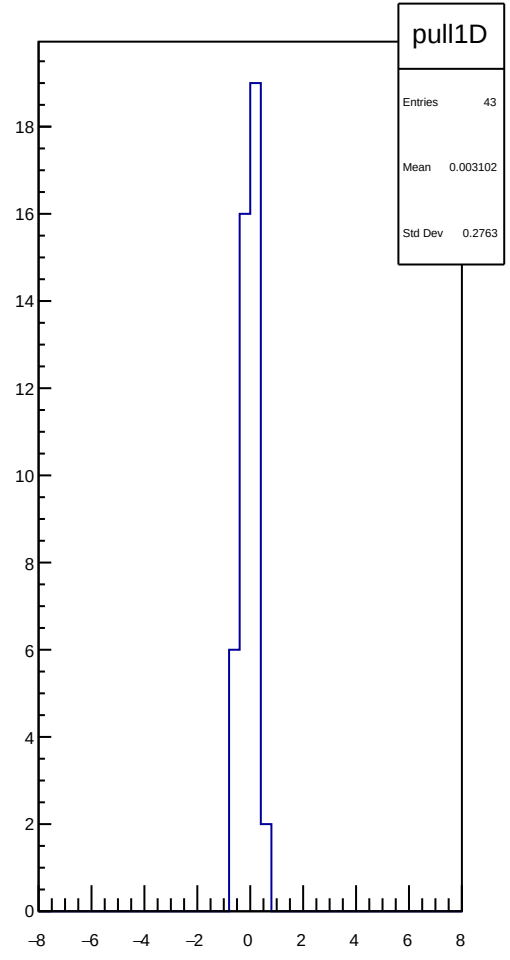

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.549 / 42
p0 −12.13 ± 1.912
pull
Entries 43
Mean 602.2
Std Dev 579.8
pull1D
Entries 43
Mean 0.0009141
Std Dev 0.3253

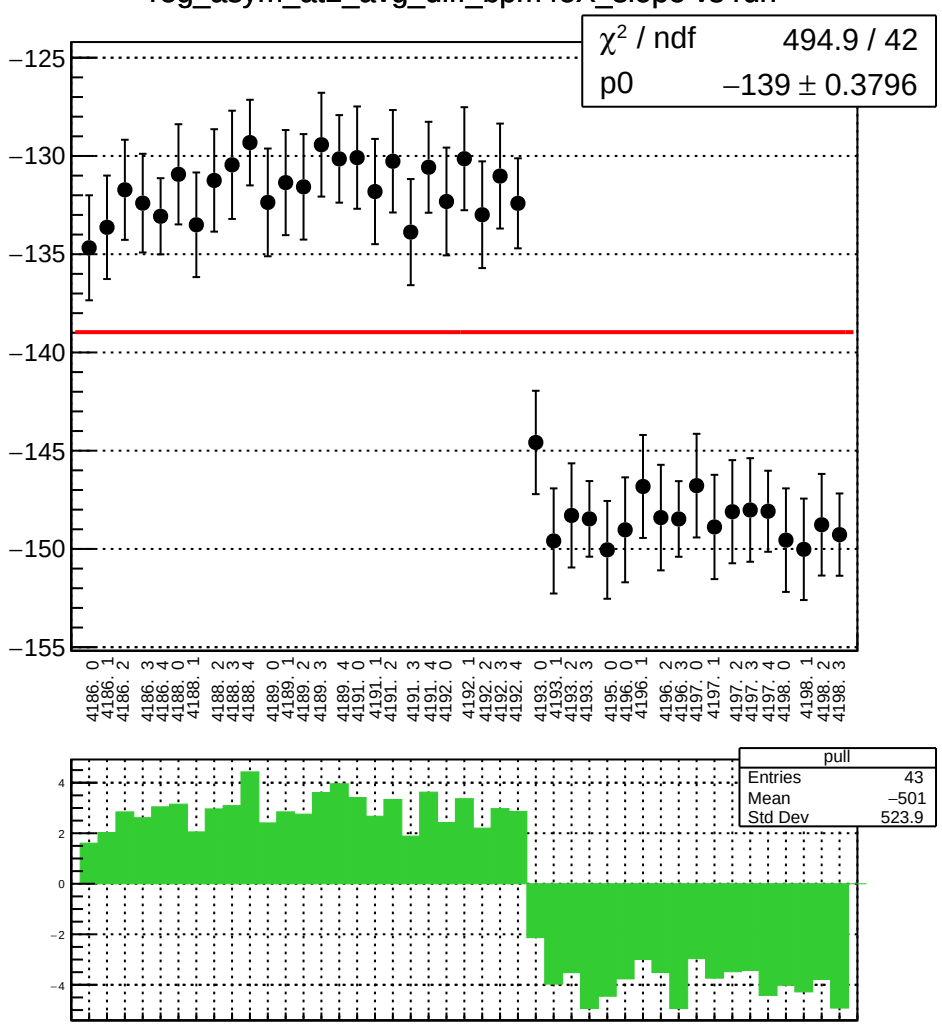

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 5.111 / 42
p0 117.3 ± 0.3686
122
120
118
116
114
112
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −318
Std Dev 340
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

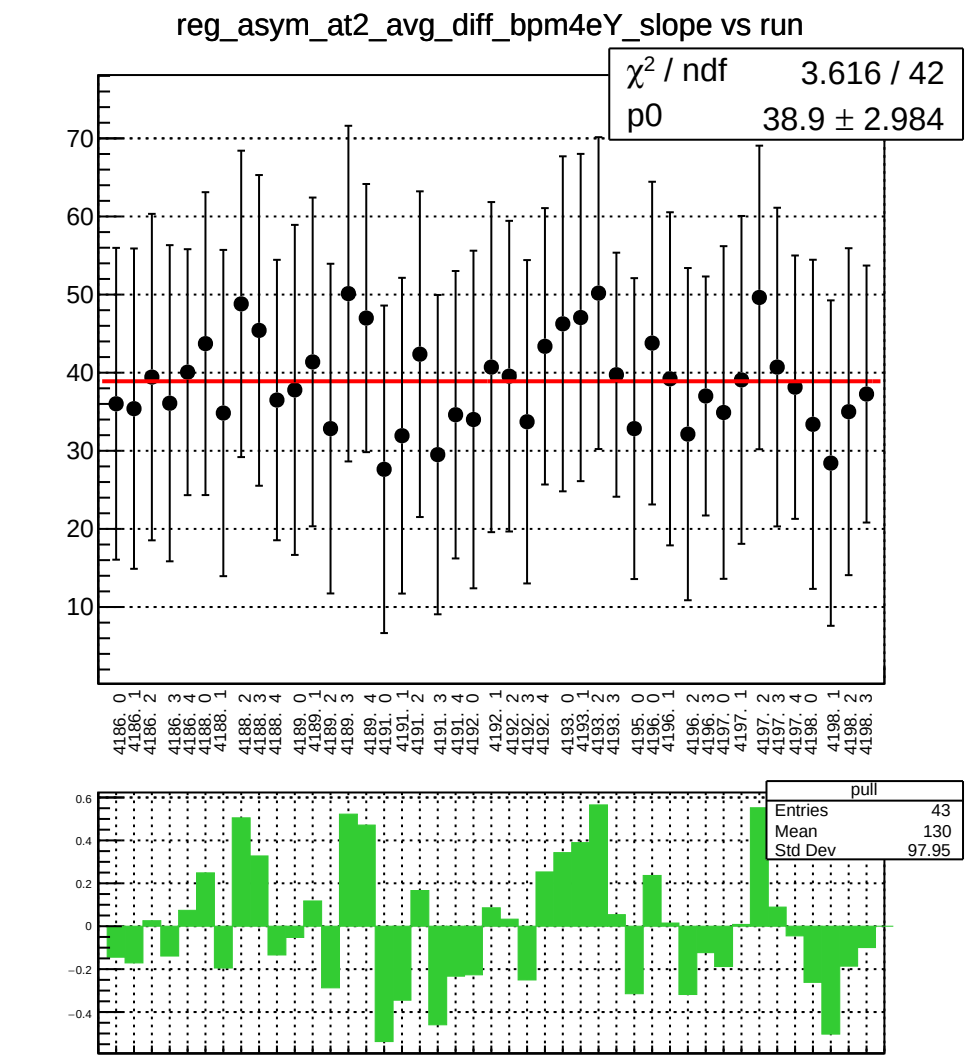

pull1D
Entries 43
Mean 0.006224
Std Dev 0.3447
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

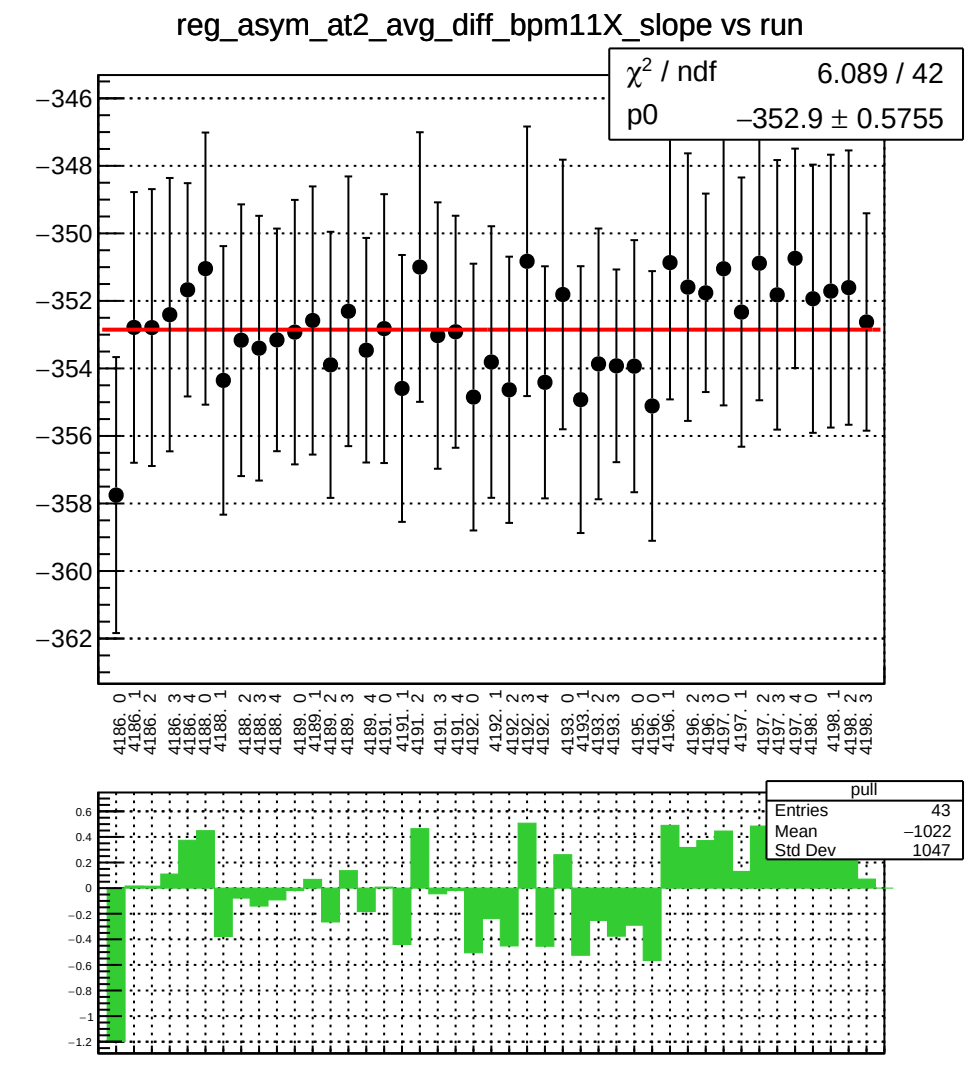

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 61.11 / 42
p0 −70.7 ± 2.26
−40
−60
−80
−100
−120
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −242.2
Std Dev 264.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04591
Std Dev 1.191
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

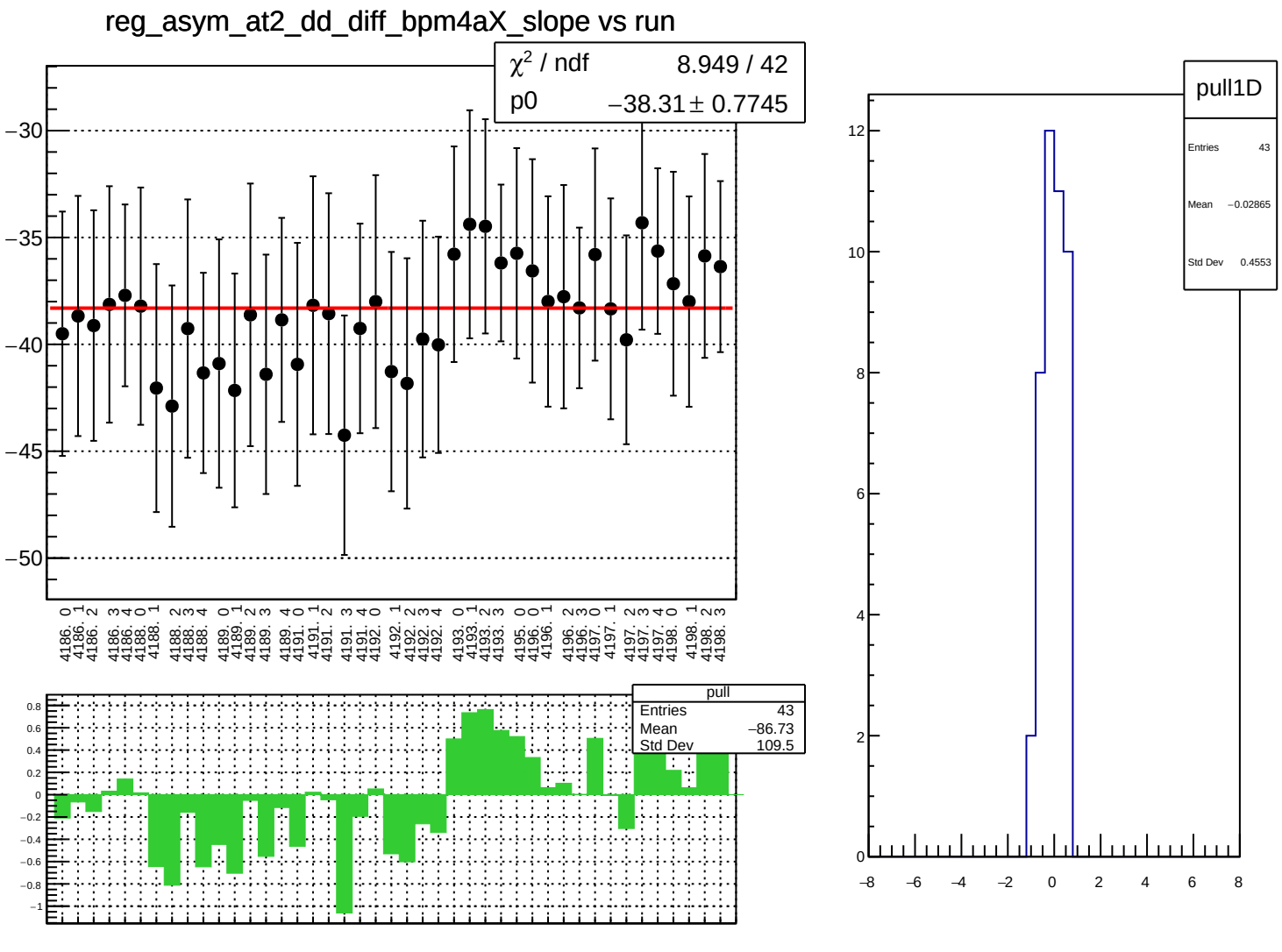

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.282 / 42
p0 27.48 ± 1.8
pull
Entries 43
Mean 54.45
Std Dev 29.84

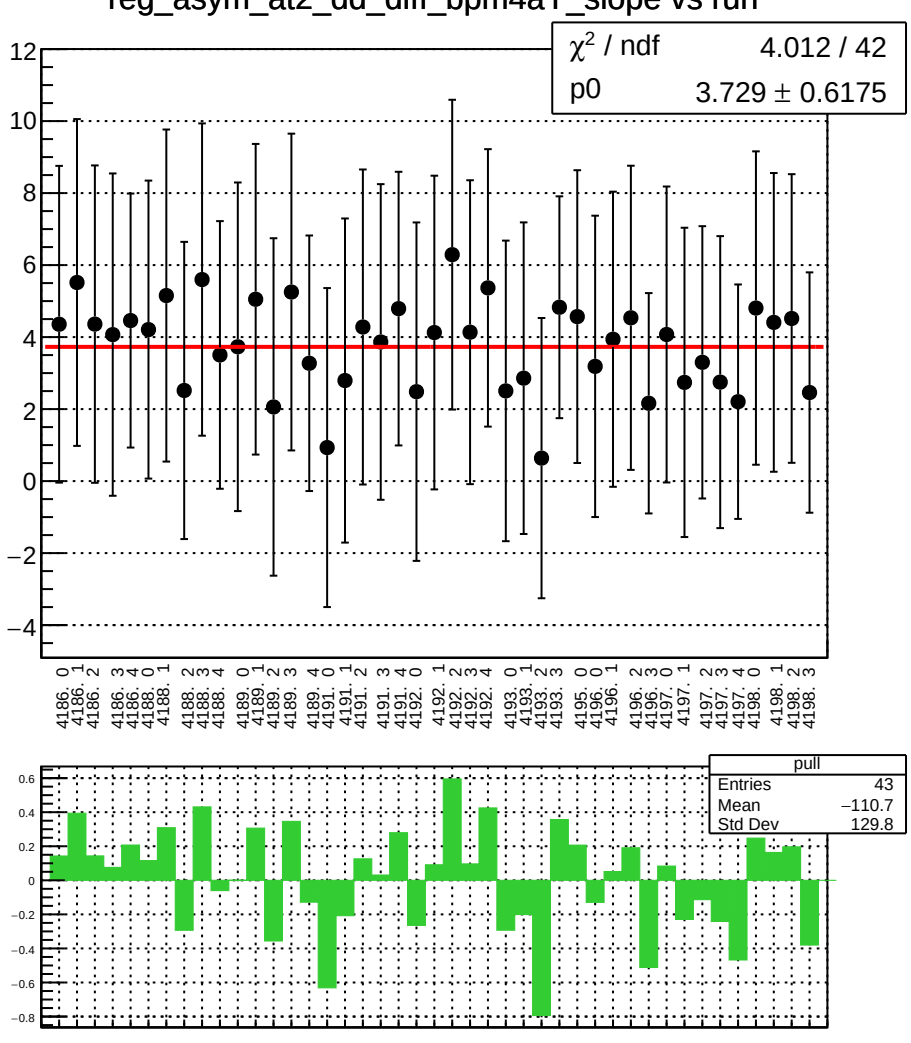

pull1D
Entries 43
Mean 0.003102
Std Dev 0.2763

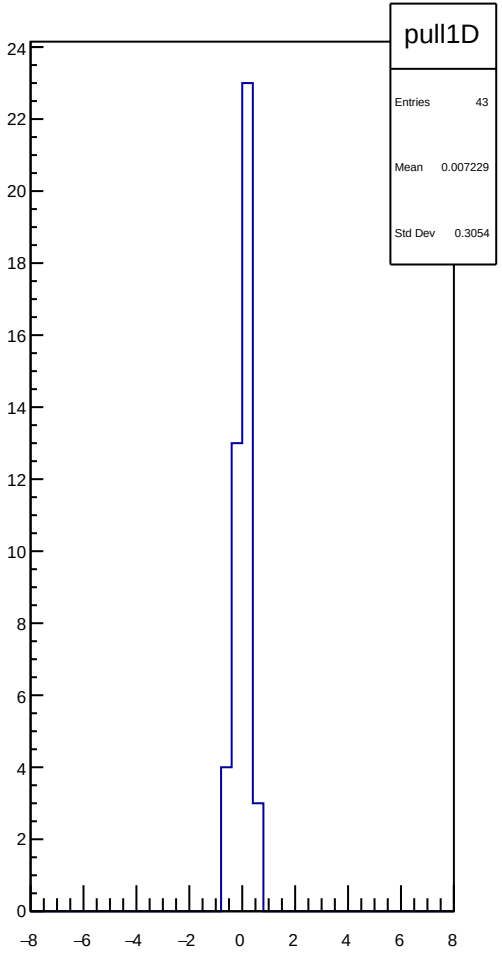

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 494.9 / 42
p0 −139 ± 0.3796
−125
−130
−135
−140
−145
−150
−155
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −501
Std Dev 523.9
4
2
0
−2
−4
pull1D
Entries 43
Mean 0.06733
Std Dev 3.392
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

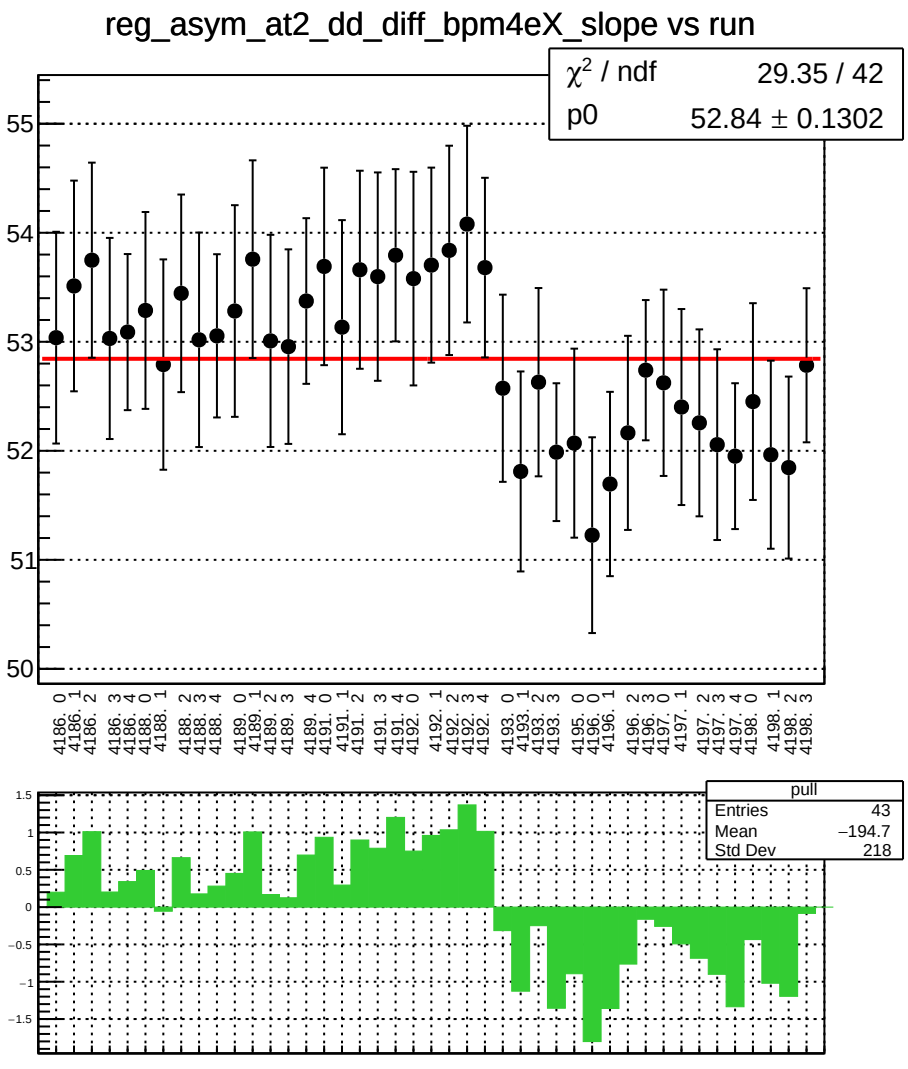

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.616 / 42
p0 38.9 ± 2.984
70
60
50
40
30
20
10
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 130
Std Dev 97.95
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.003003
Std Dev 0.29
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

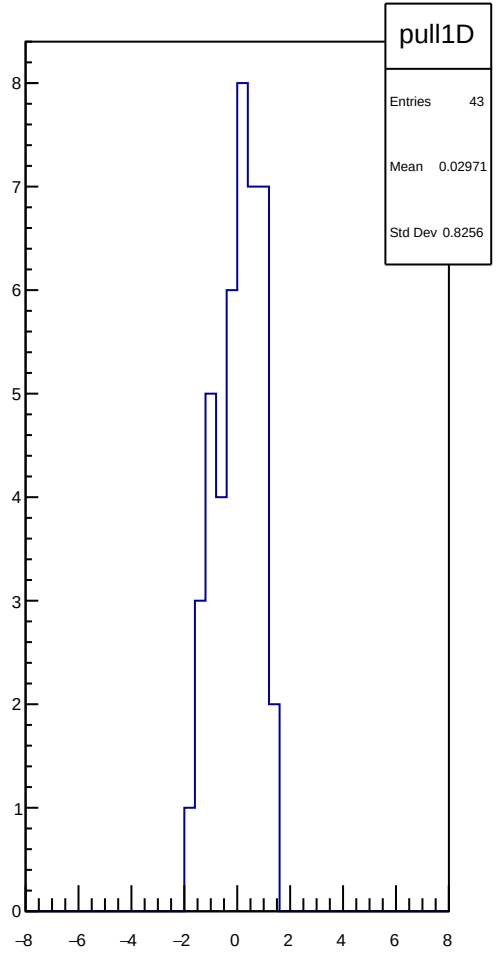

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 6.089 / 42
p0 −352.9 ± 0.5755
−346
−348
−350
−352
−354
−356
−358
−360
−362
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1022
Std Dev 1047
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 43
Mean −0.001513
Std Dev 0.3763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

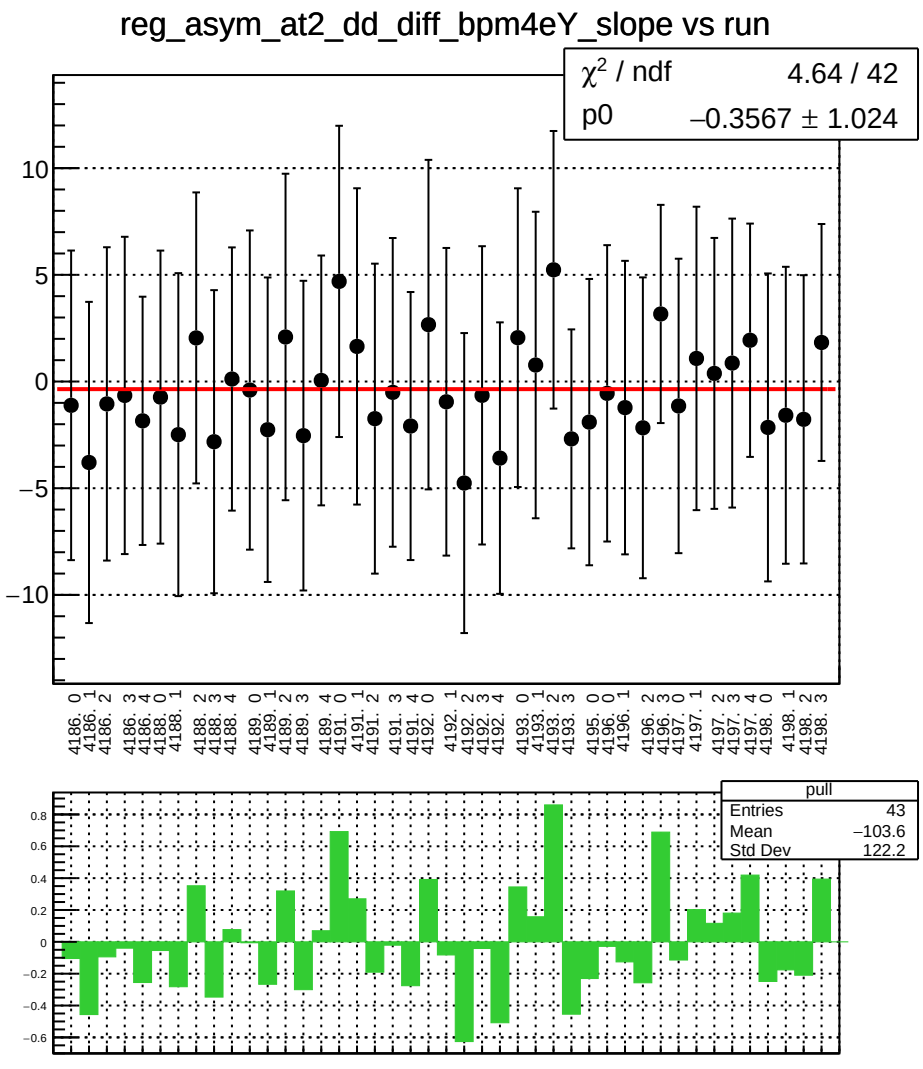

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.949 / 42
p0 −38.31 ± 0.7745
−30
−35
−40
−45
−50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −86.73
Std Dev 109.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.02865
Std Dev 0.4553
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

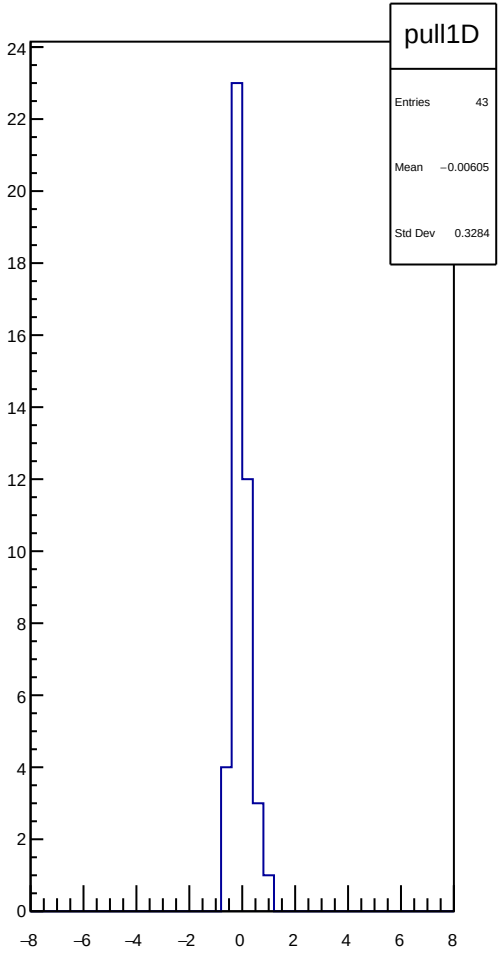

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.012 / 42
p0 3.729 ± 0.6175
pull
Entries 43
Mean −110.7
Std Dev 129.8

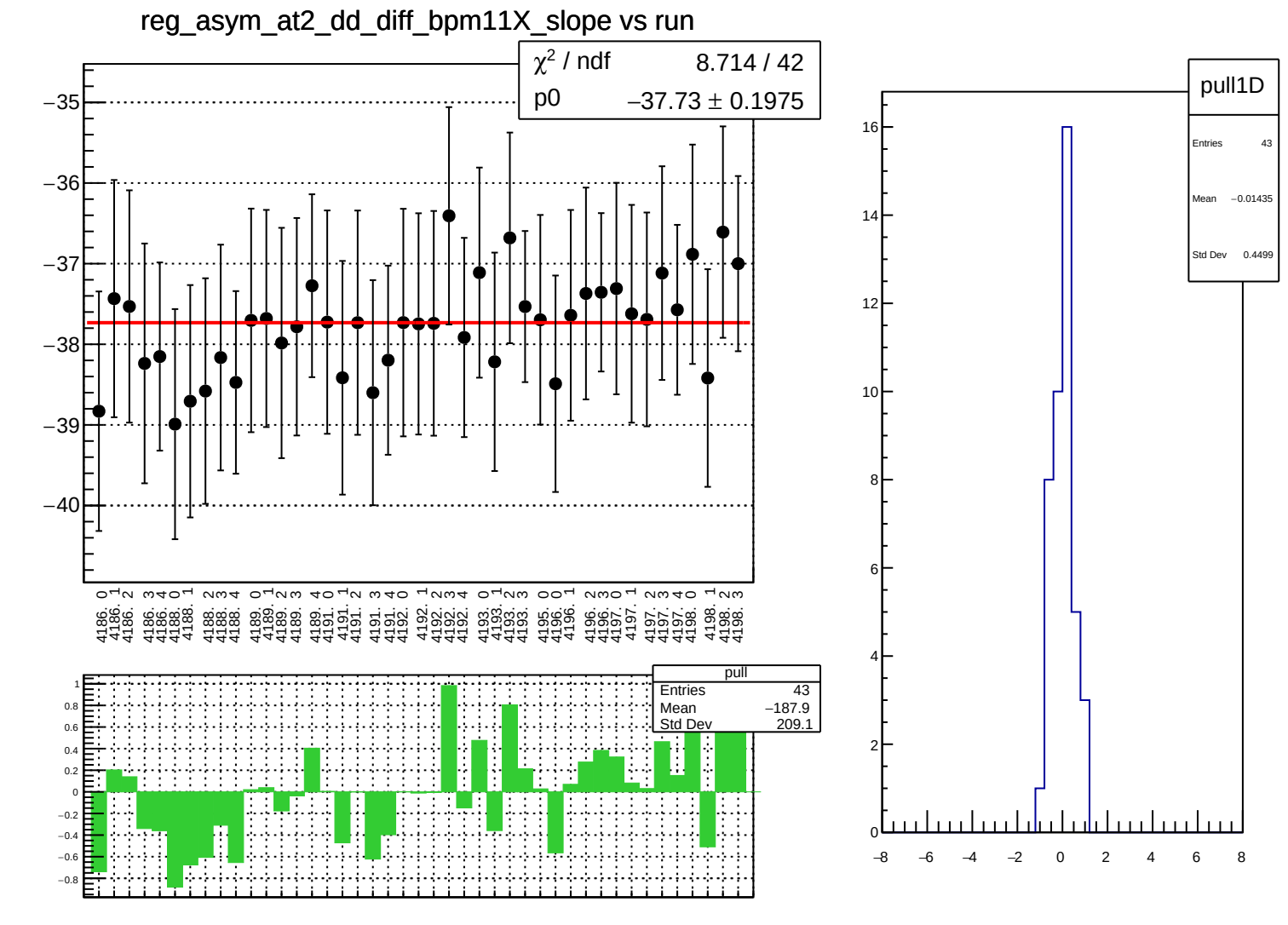

pull1D
Entries 43
Mean 0.007229
Std Dev 0.3054

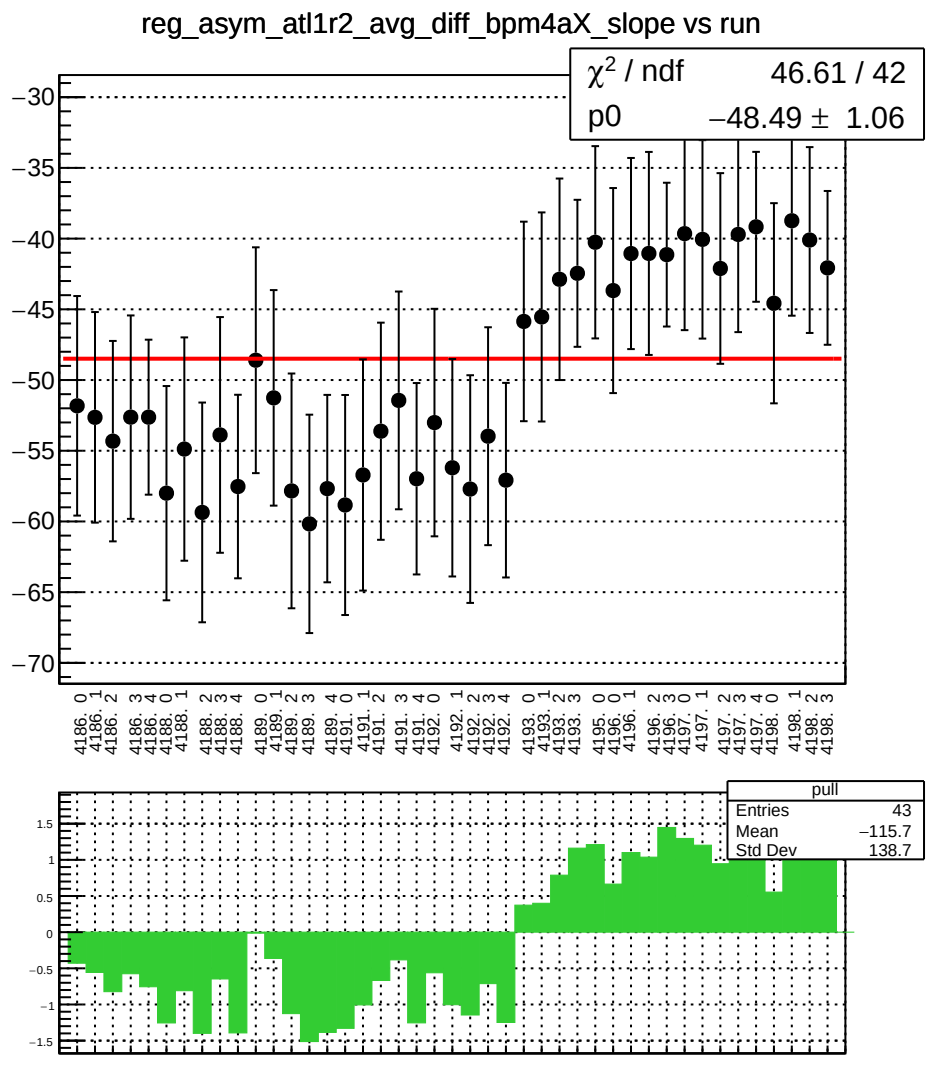

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.35 / 42
p0 52.84 ± 0.1302
pull
Entries 43
Mean −194.7
Std Dev 218

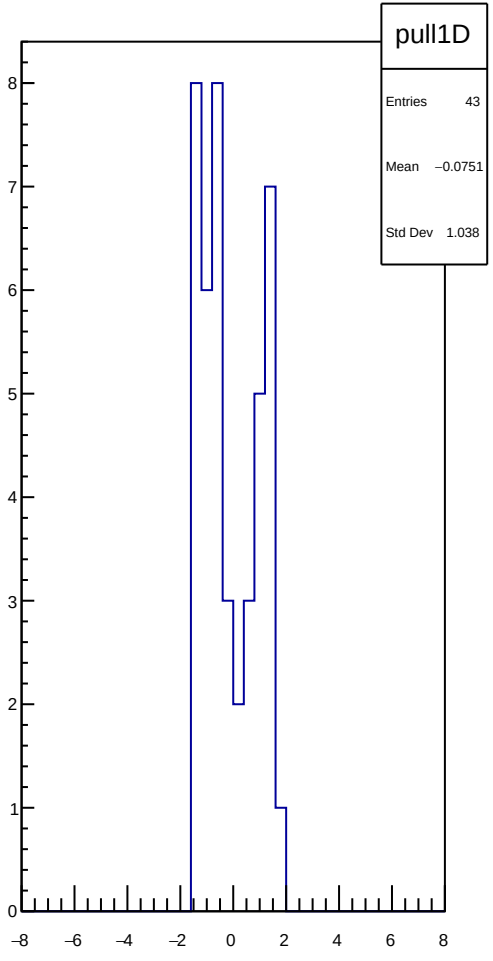

pull1D
Entries 43
Mean 0.02971
Std Dev 0.8256

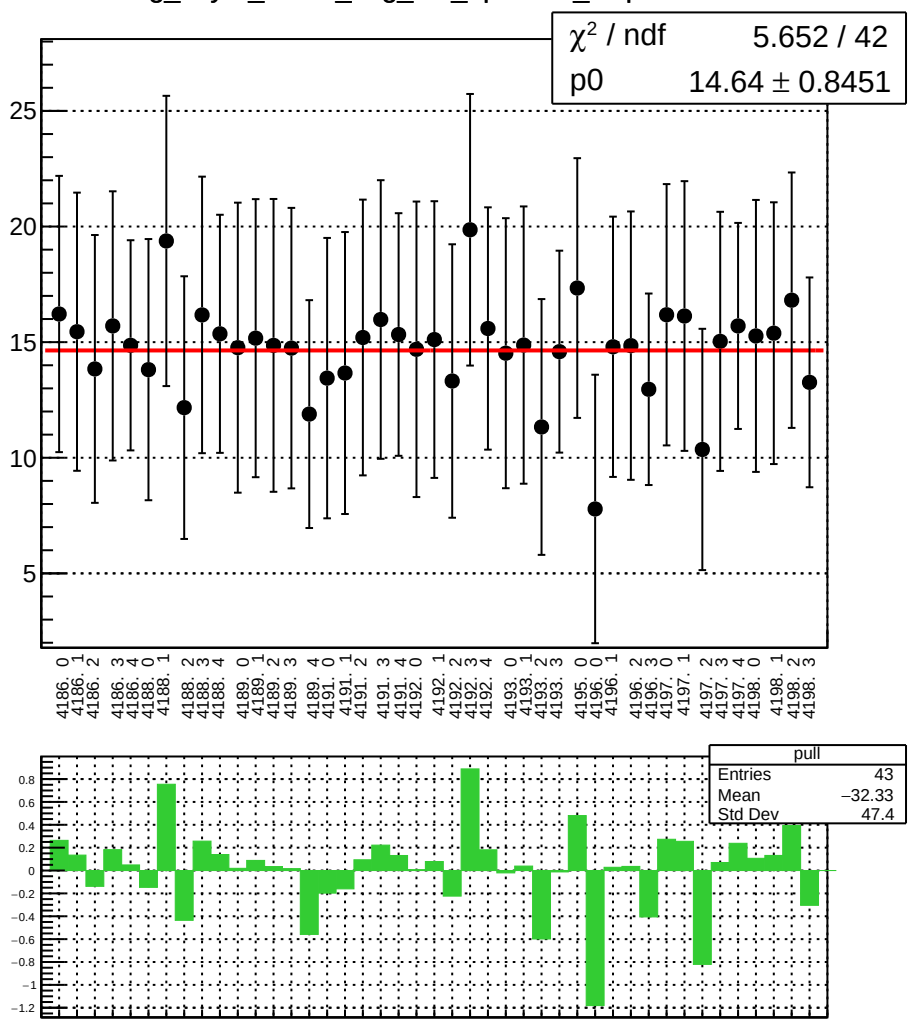

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.64 / 42
p0 −0.3567 ± 1.024
pull
Entries 43
Mean −103.6
Std Dev 122.2

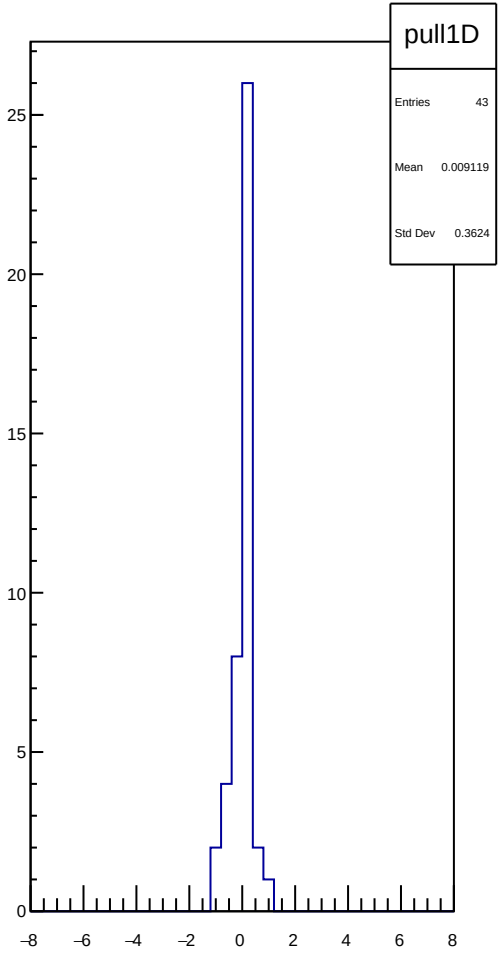

pull1D
Entries 43
Mean −0.00605
Std Dev 0.3284

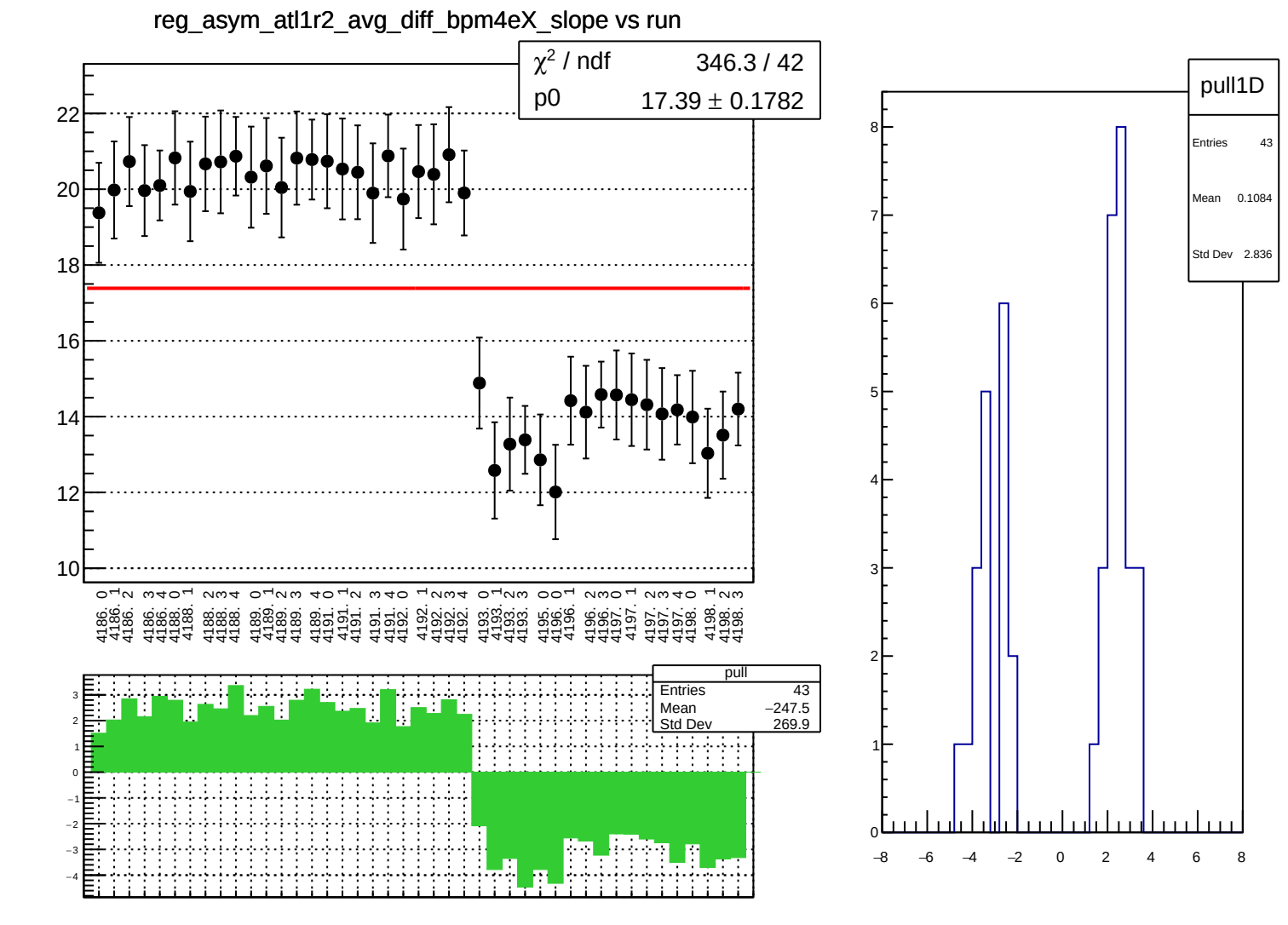

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 8.714 / 42
p0 −37.73 ± 0.1975
−35
−36
−37
−38
−39
−40
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −187.9
Std Dev 209.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.01435
Std Dev 0.4499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

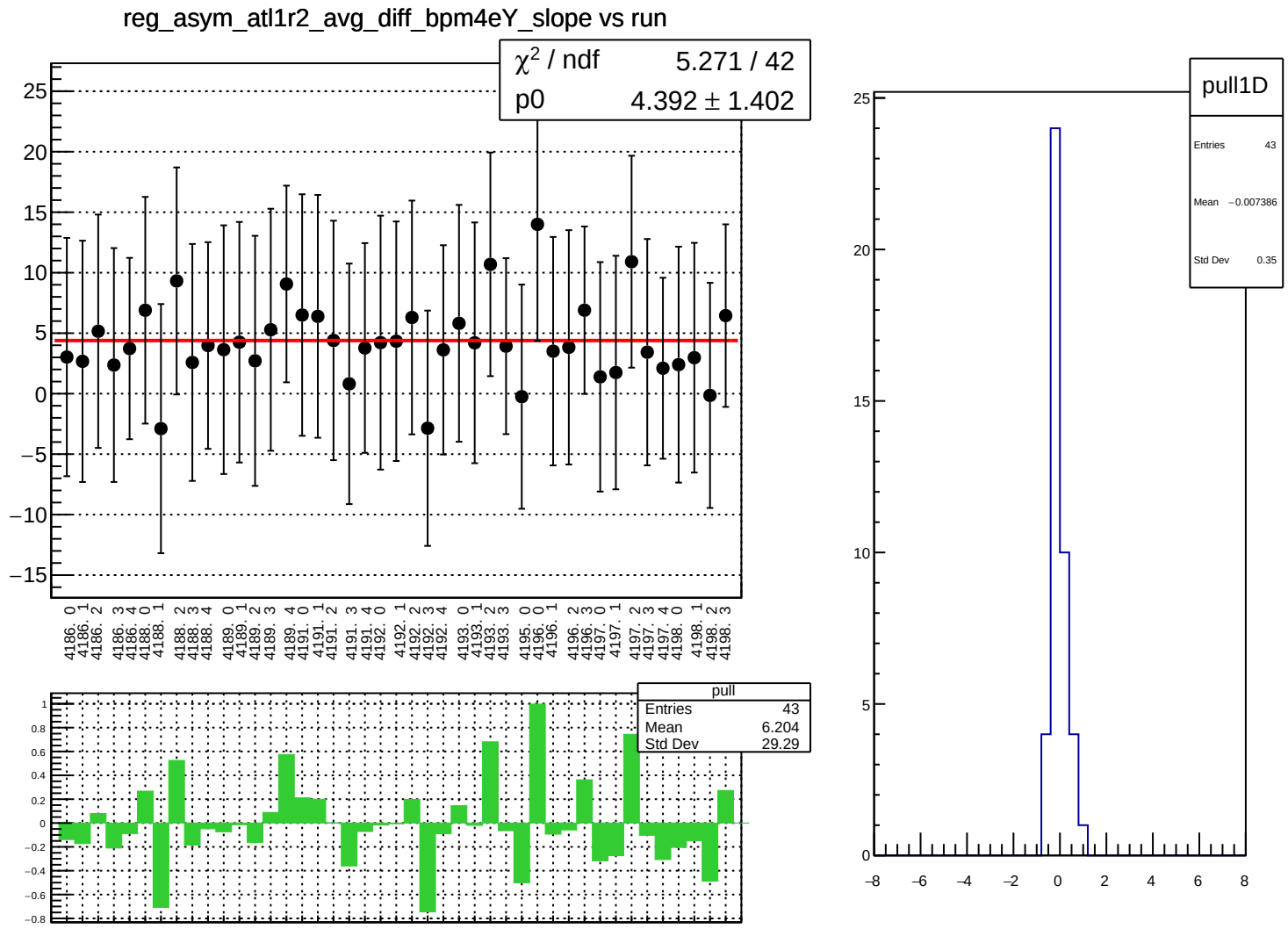

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.61 / 42
p0 −48.49 ± 1.06
pull
Entries 43
Mean −115.7
Std Dev 138.7

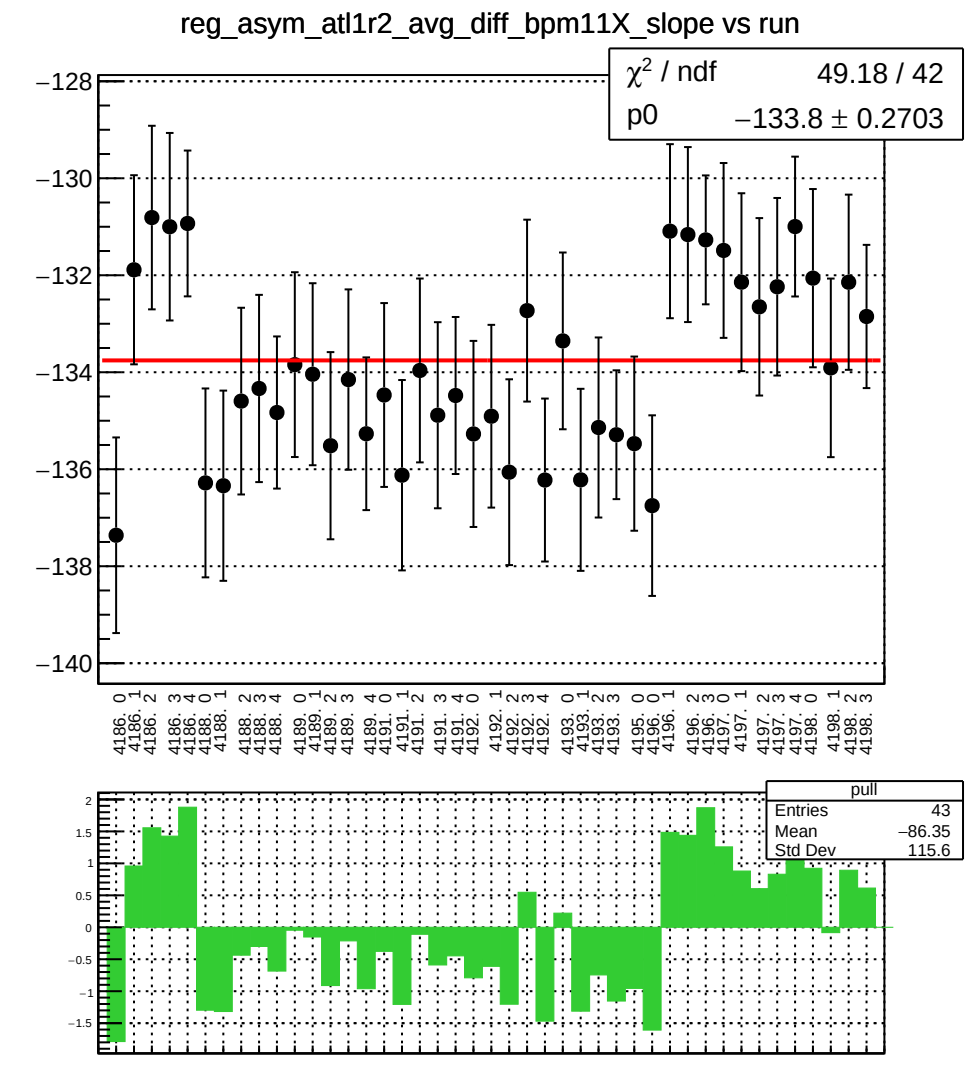

pull1D
Entries 43
Mean −0.0751
Std Dev 1.038

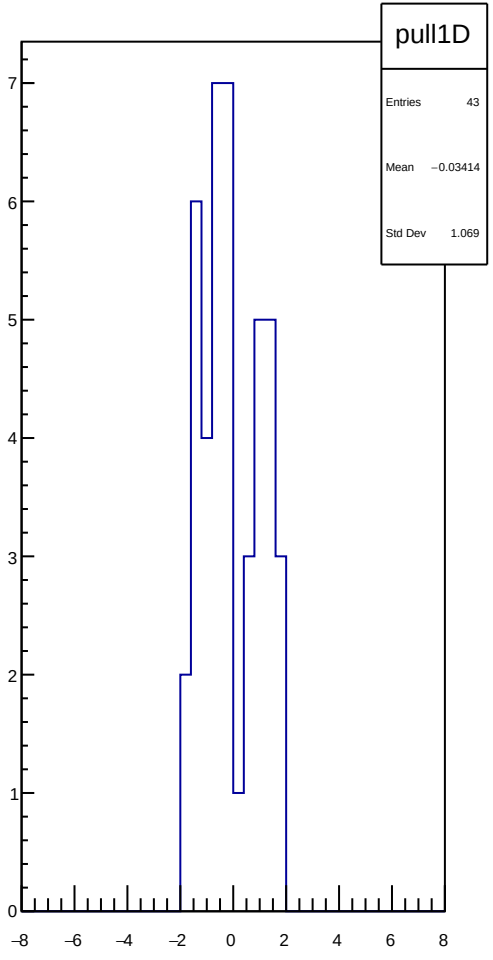

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.652 / 42
p0 14.64 ± 0.8451
pull
Entries 43
Mean −32.33
Std Dev 47.4

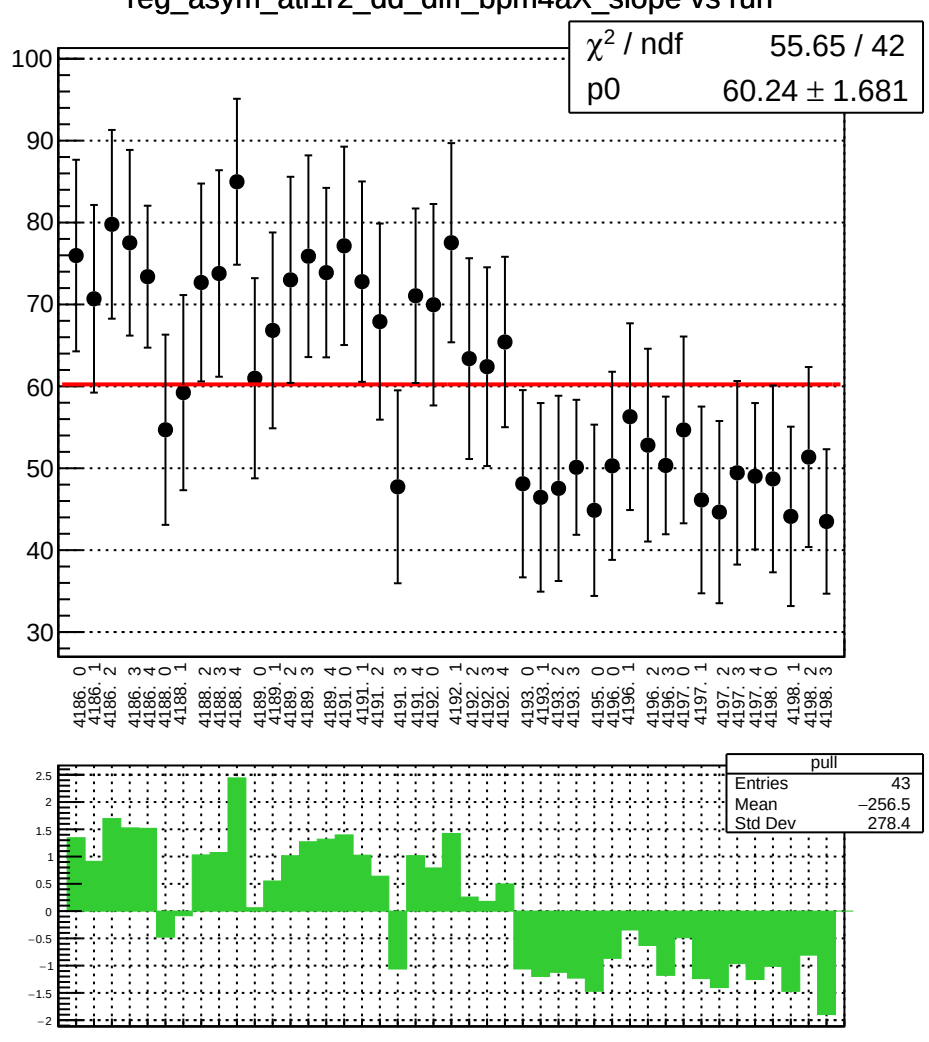

pull1D
Entries 43
Mean 0.009119
Std Dev 0.3624

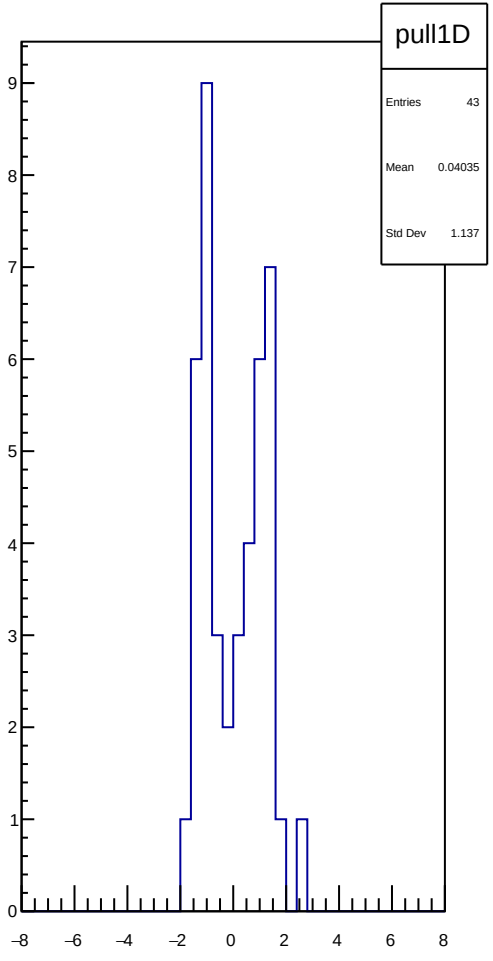

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 346.3 / 42
p0 17.39 ± 0.1782
pull
Entries 43
Mean −247.5
Std Dev 269.9
pull1D
Entries 43
Mean 0.1084
Std Dev 2.836

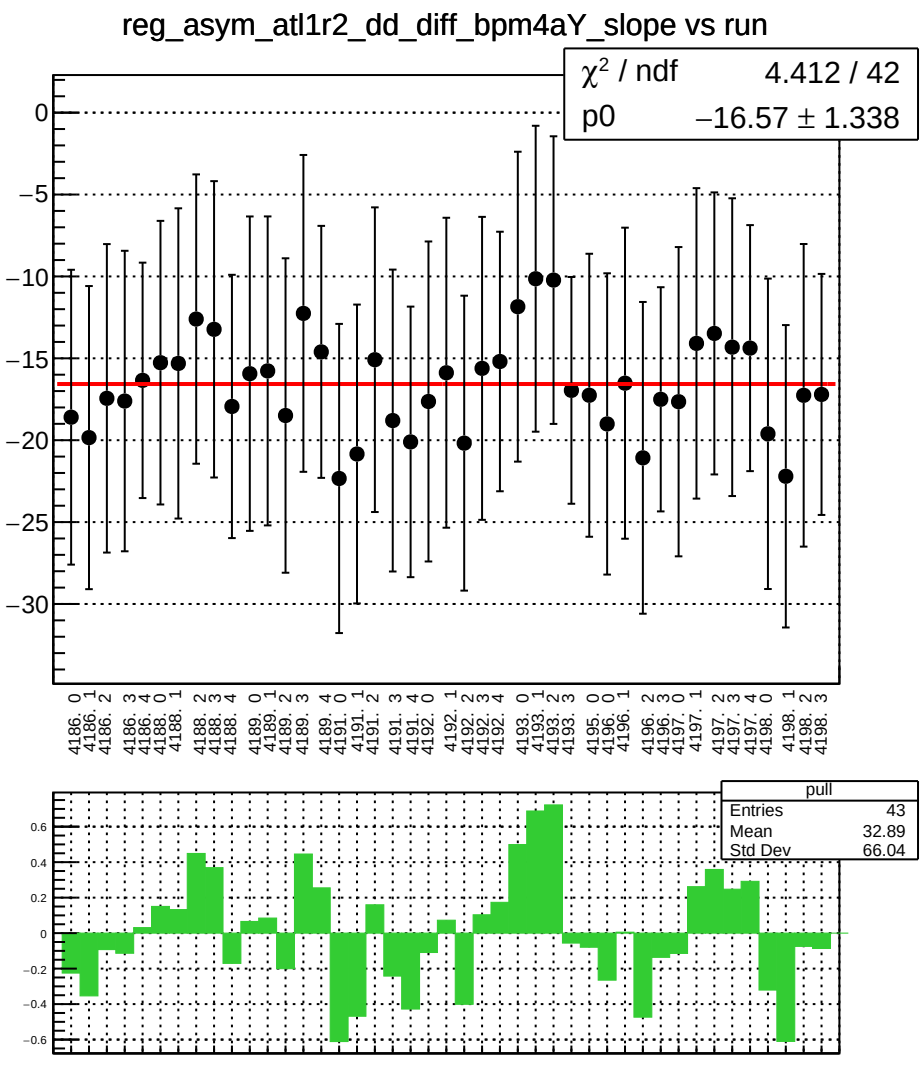

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.271 / 42
p0 4.392 ± 1.402
pull
Entries 43
Mean 6.204
Std Dev 29.29
pull1D
Entries 43
Mean −0.007386
Std Dev 0.35

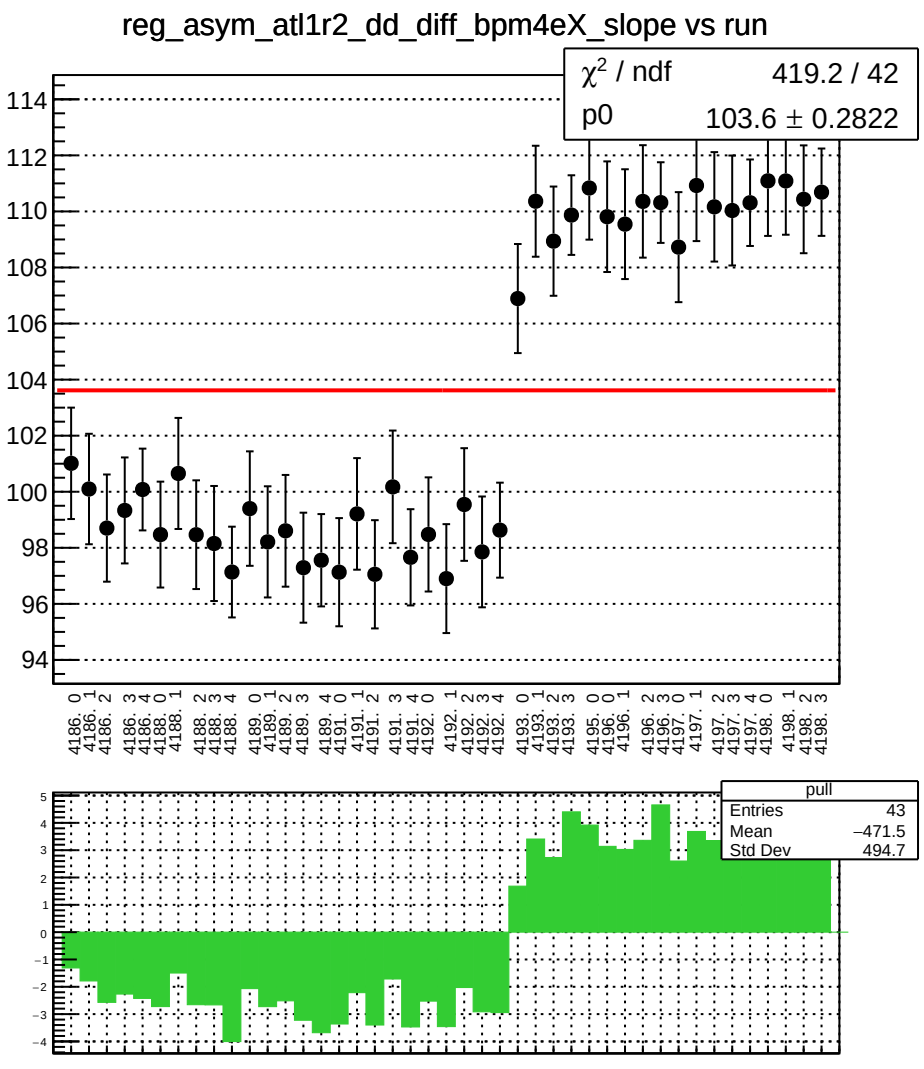

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 49.18 / 42
p0 −133.8 ± 0.2703
pull
Entries 43
Mean −86.35
Std Dev 115.6

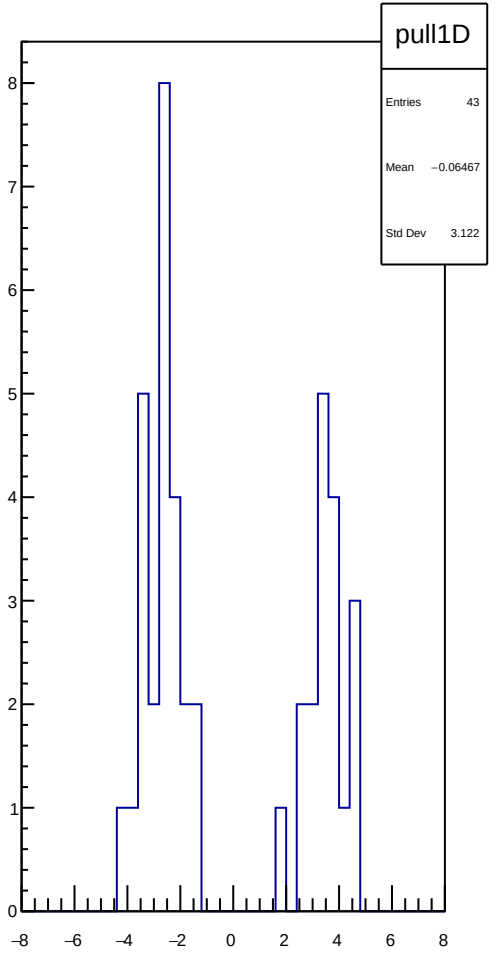

pull1D
Entries 43
Mean −0.03414
Std Dev 1.069

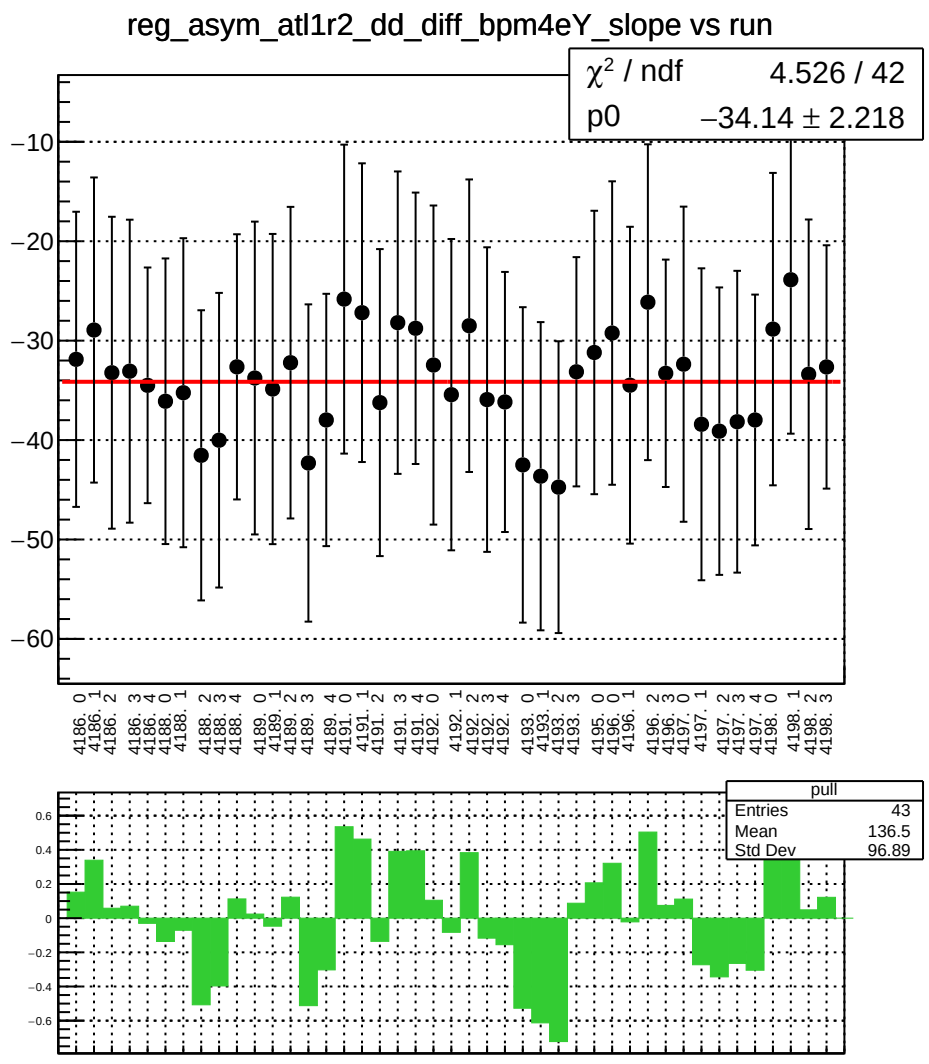

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.65 / 42
p0 60.24 ± 1.681
pull
Entries 43
Mean −256.5
Std Dev 278.4

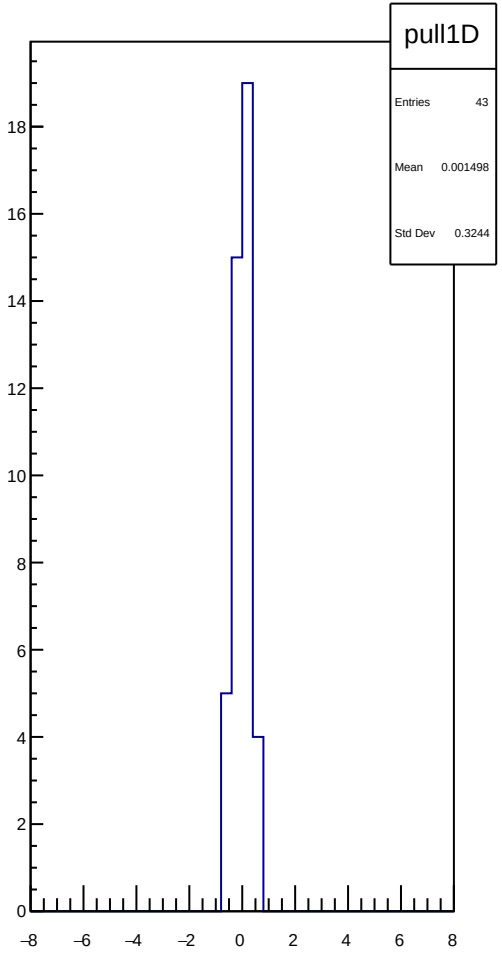

pull1D
Entries 43
Mean 0.04035
Std Dev 1.137

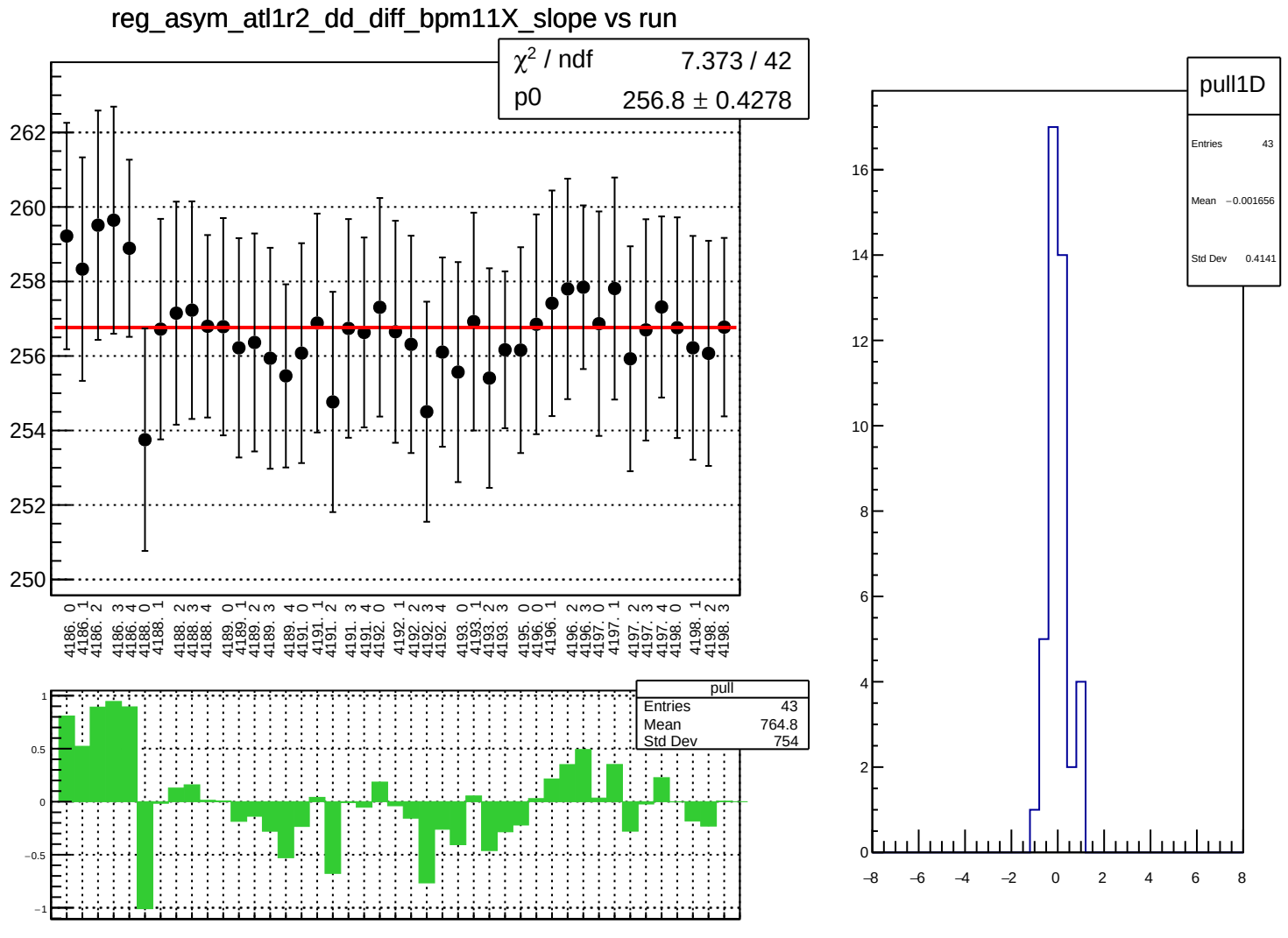

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.412 / 42
p0 −16.57 ± 1.338
0
−5
−10
−15
−20
−25
−30
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 32.89
Std Dev 66.04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.001483
Std Dev 0.3203
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

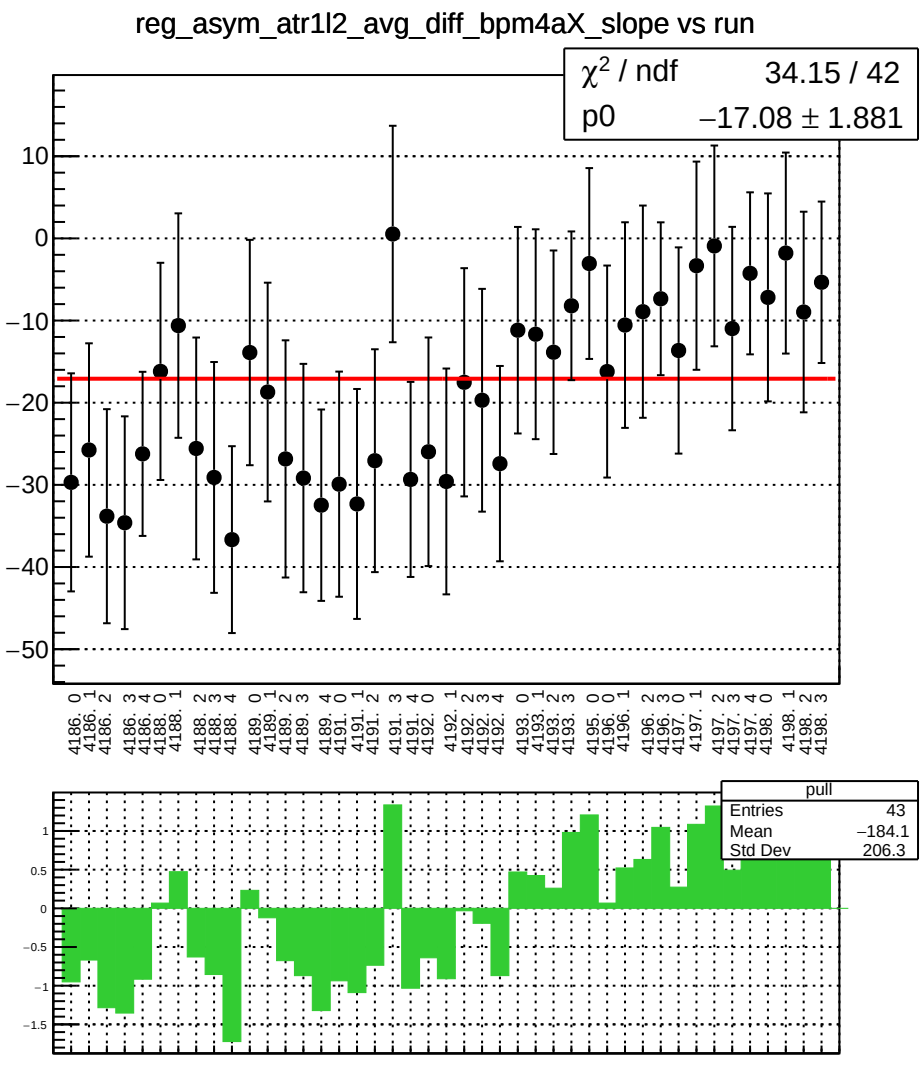

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 419.2 / 42
p0 103.6 ± 0.2822
pull
Entries 43
Mean −471.5
Std Dev 494.7

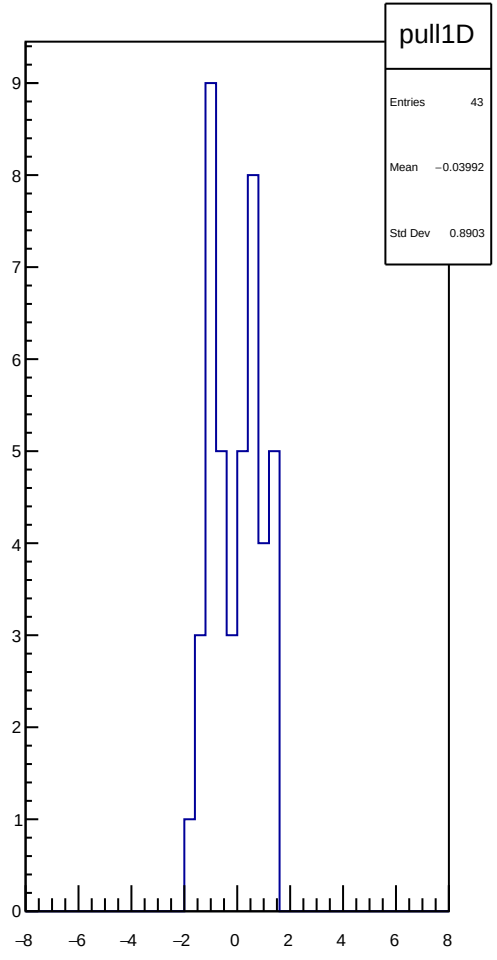

pull1D
Entries 43
Mean −0.06467
Std Dev 3.122

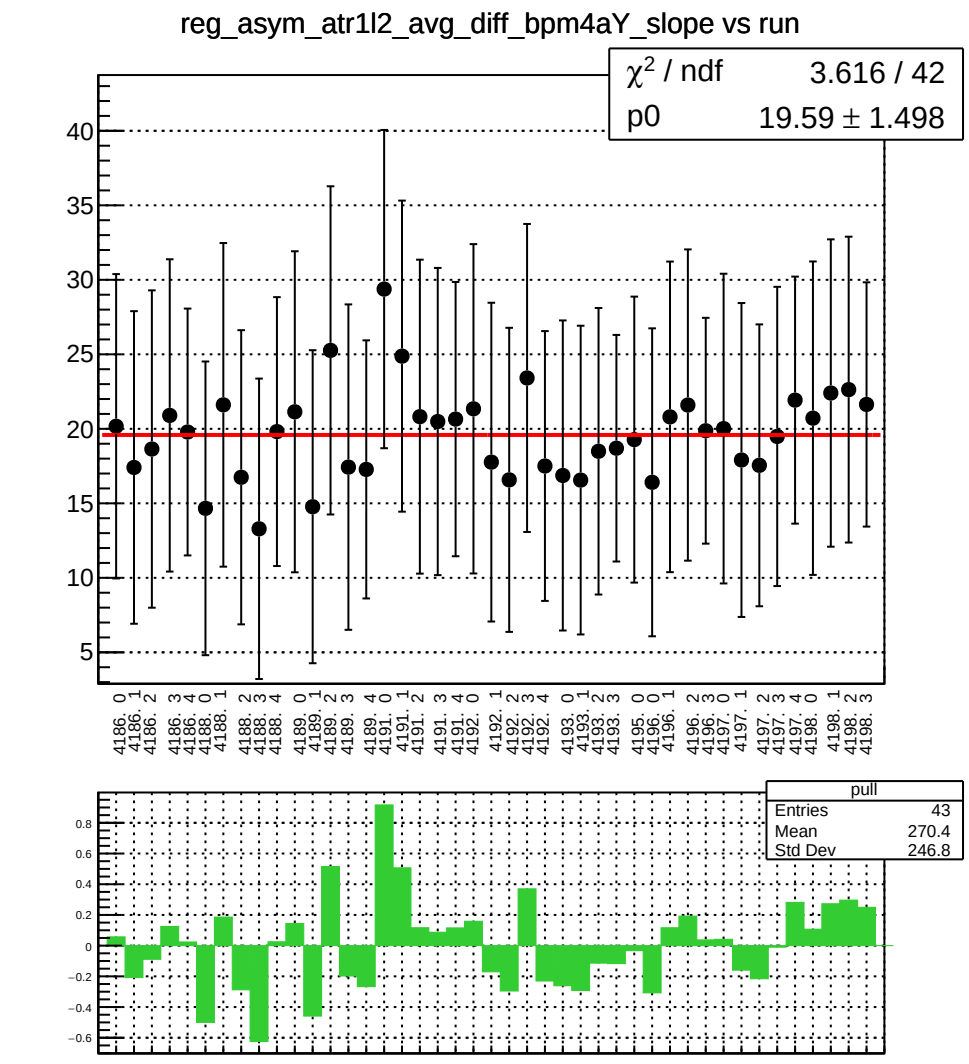

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.526 / 42
p0 −34.14 ± 2.218
−10
−20
−30
−40
−50
−60
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 136.5
Std Dev 96.89
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

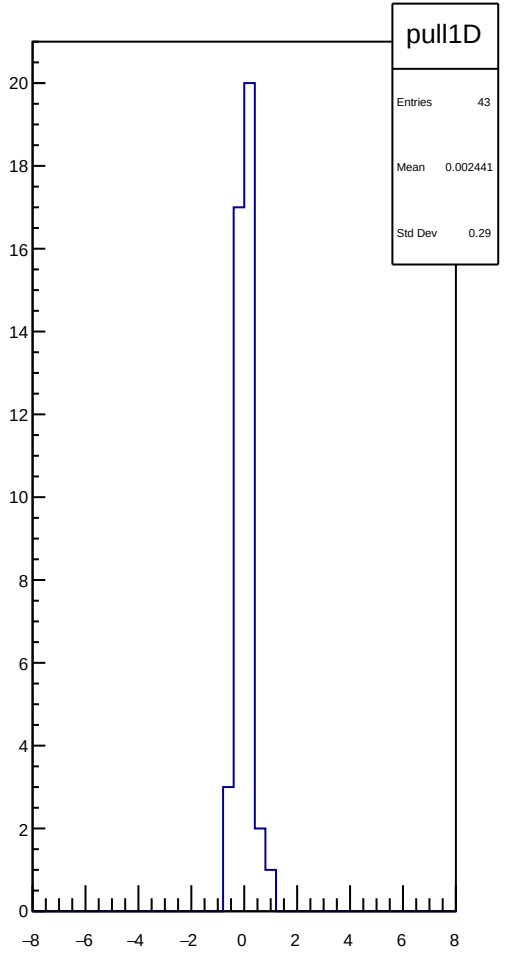

pull1D
Entries 43
Mean 0.001498
Std Dev 0.3244
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

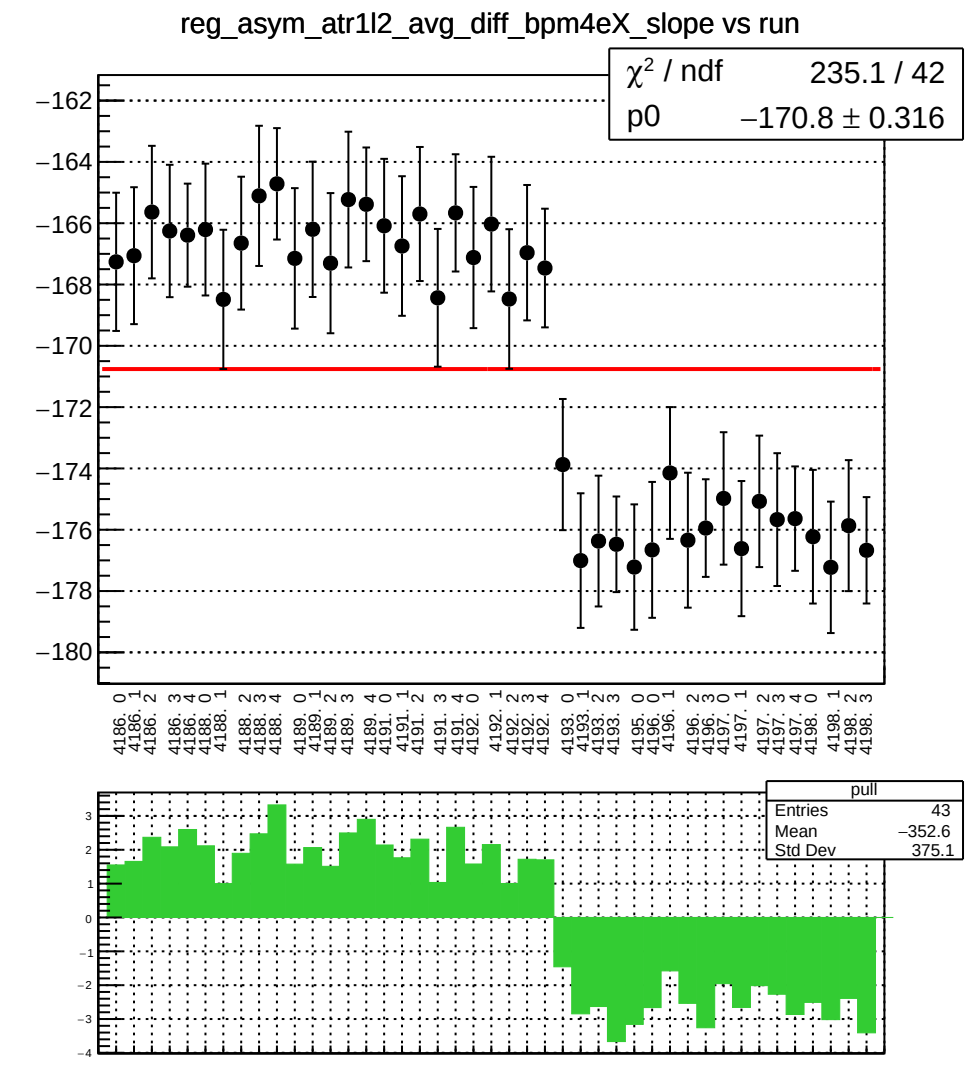

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 7.373 / 42
p0 256.8 ± 0.4278
262
260
258
256
254
252
250
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 764.8
Std Dev 754
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.001656
Std Dev 0.4141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

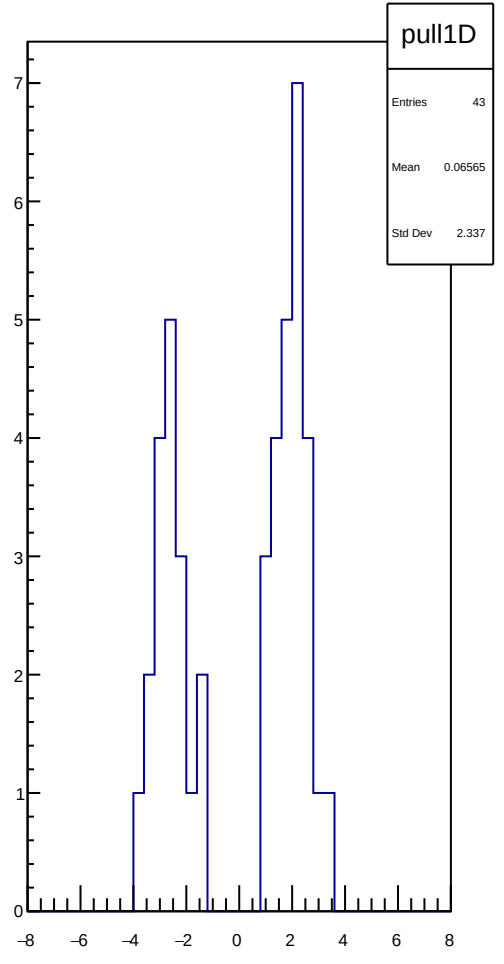

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 34.15 / 42
p0 −17.08 ± 1.881
10
0
−10
−20
−30
−40
−50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −184.1
Std Dev 206.3
1
0.5
0
−0.5
−1
−1.5

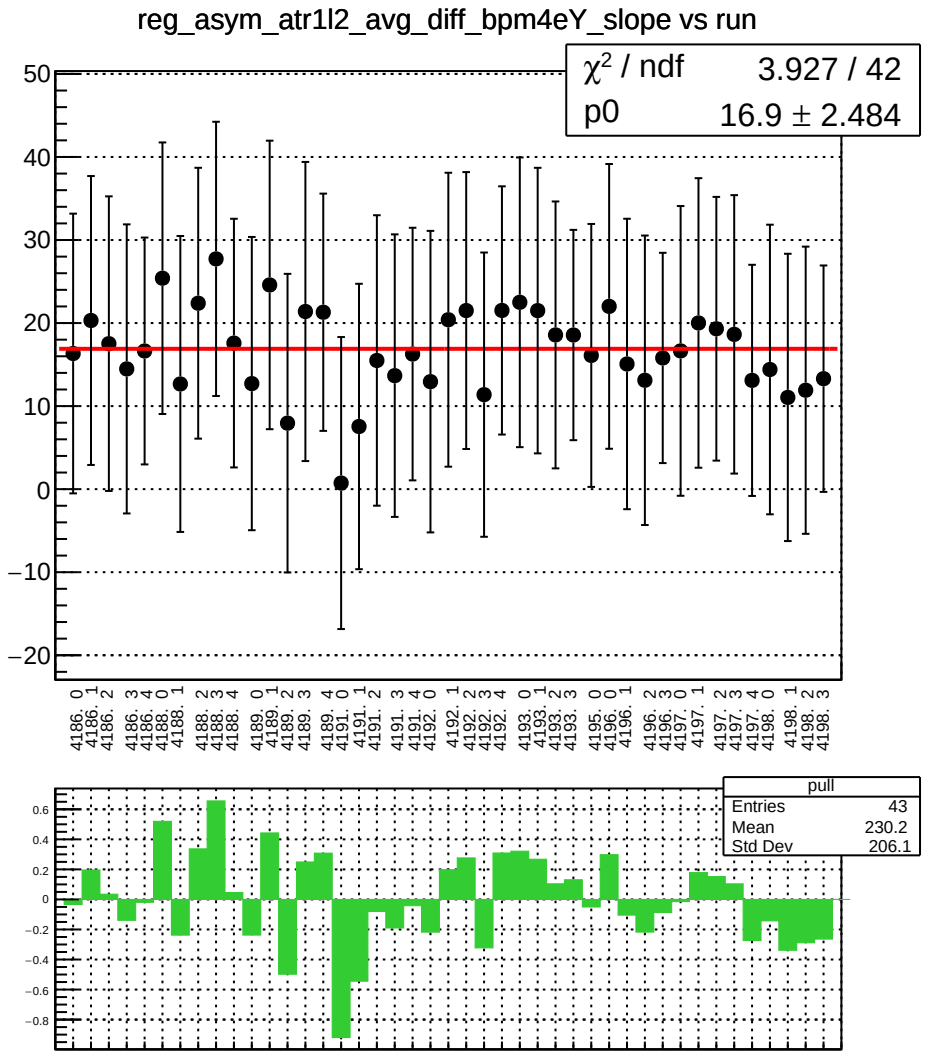

pull1D
Entries 43
Mean −0.03992
Std Dev 0.8903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

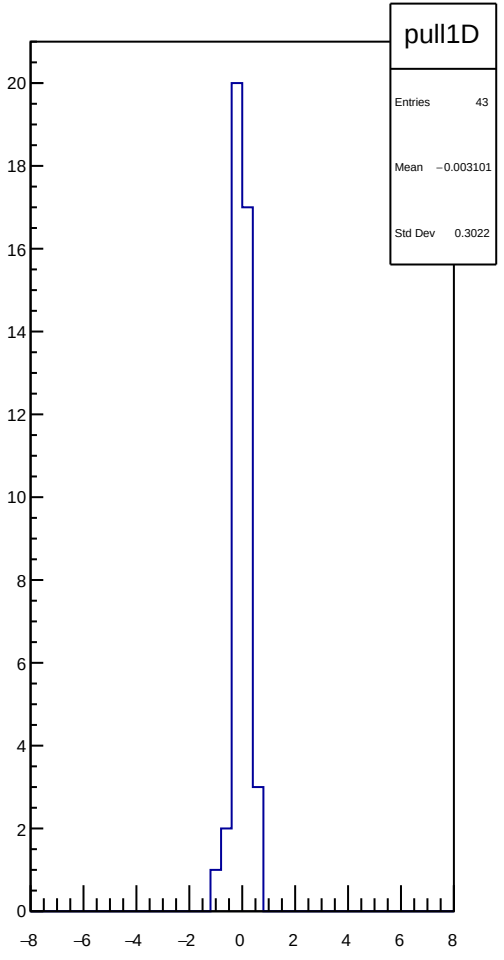

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.616 / 42
p0 19.59 ± 1.498
pull
Entries 43
Mean 270.4
Std Dev 246.8

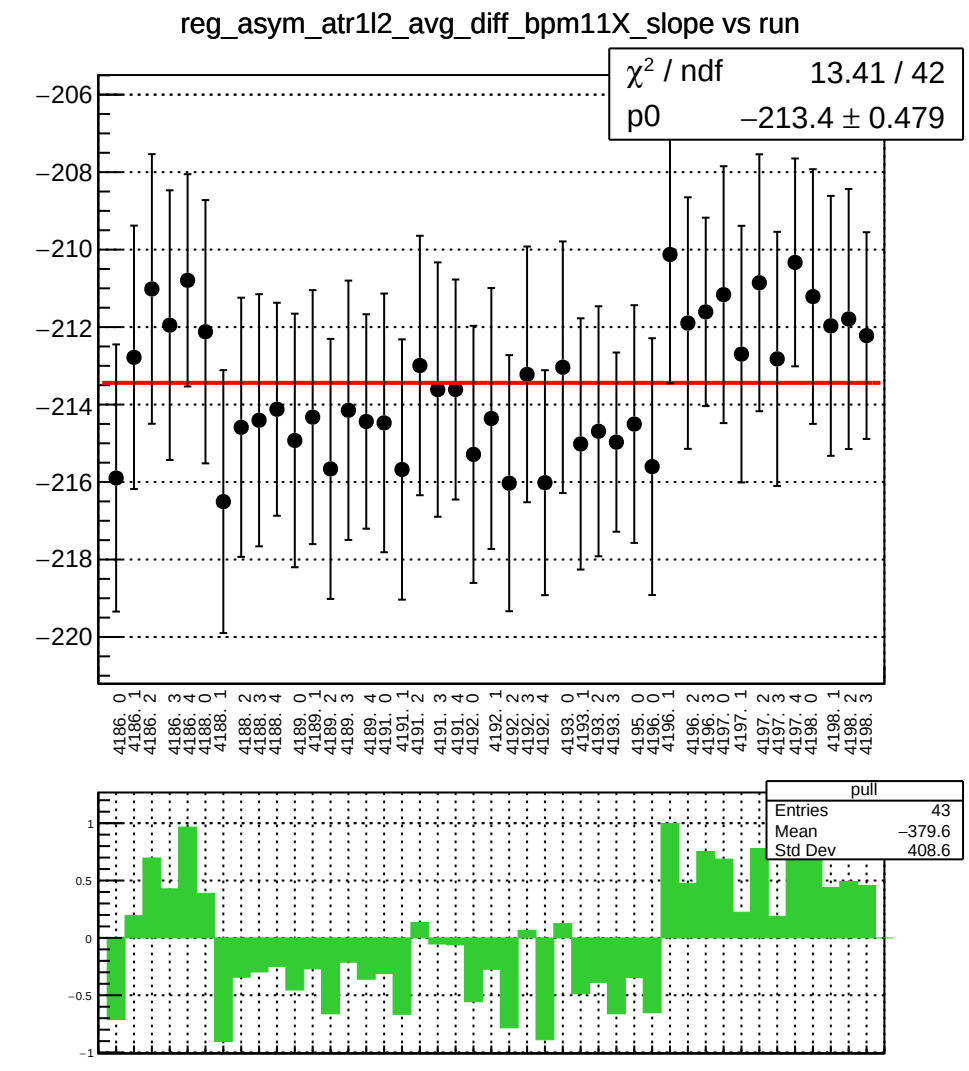

pull1D
Entries 43
Mean 0.002441
Std Dev 0.29

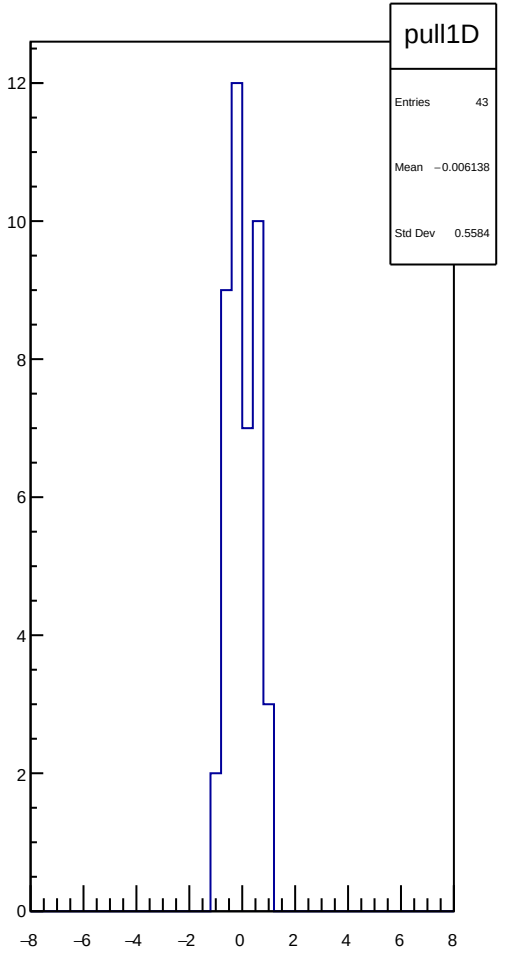

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 235.1 / 42
p0 −170.8 ± 0.316
pull
Entries 43
Mean −352.6
Std Dev 375.1

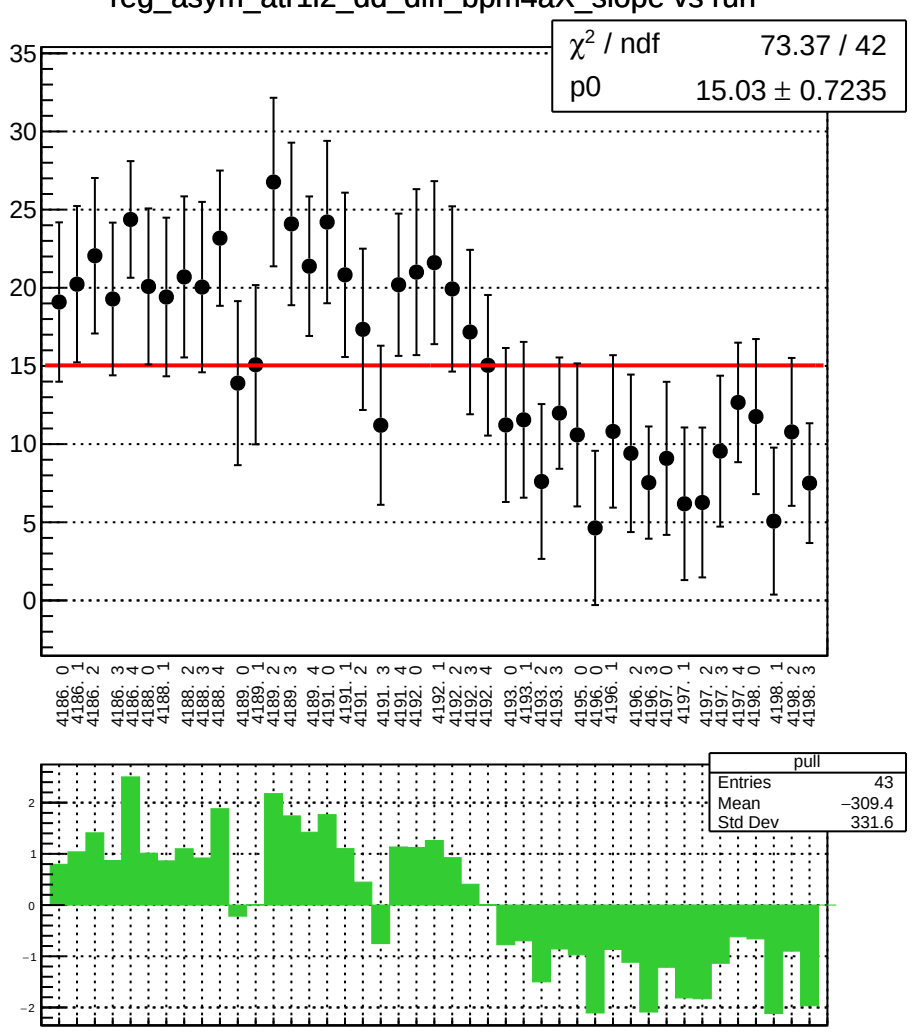

pull1D
Entries 43
Mean 0.06565
Std Dev 2.337

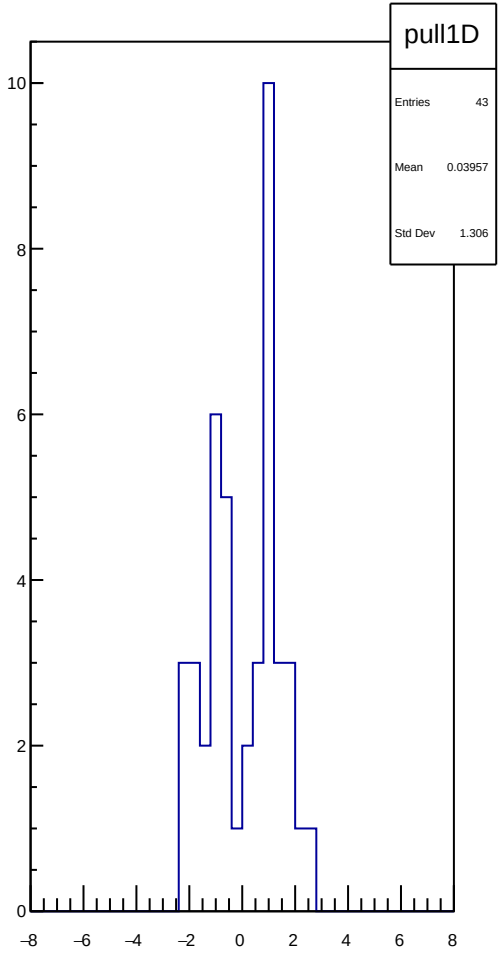

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.927 / 42
p0 16.9 ± 2.484
pull
Entries 43
Mean 230.2
Std Dev 206.1

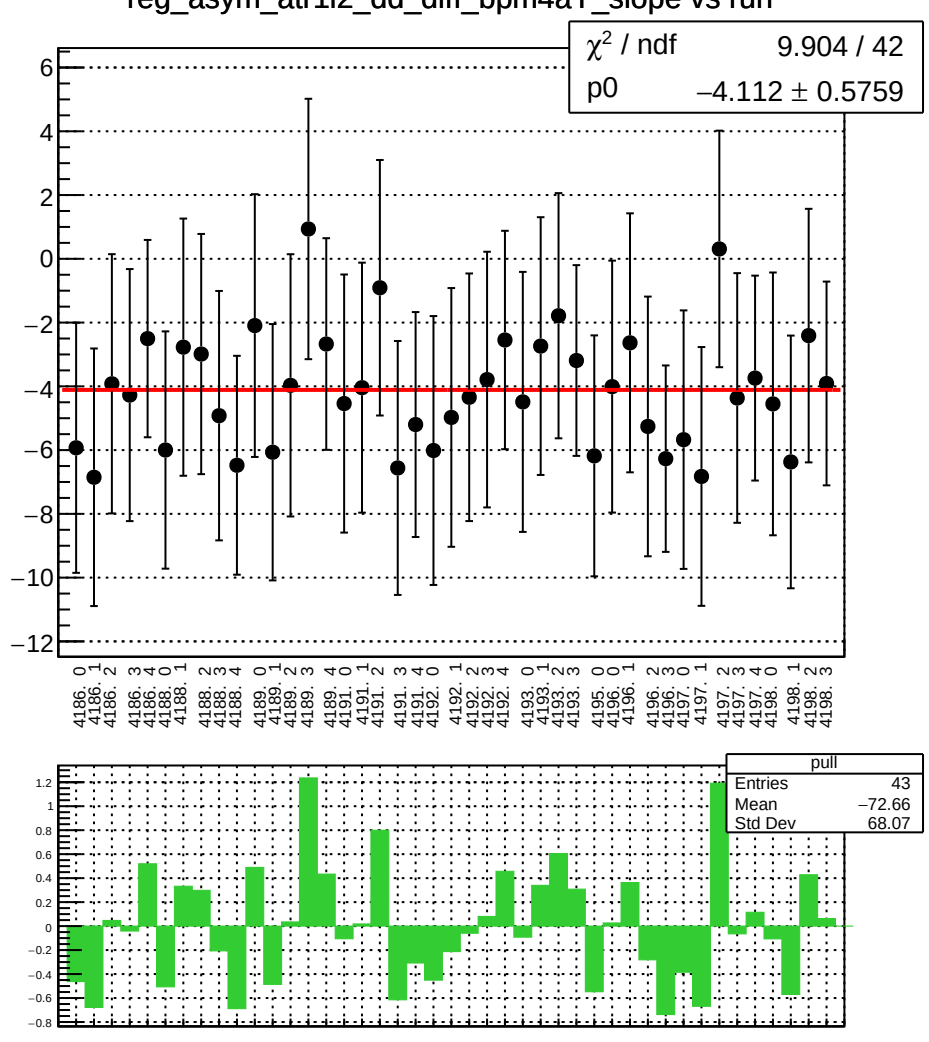

pull1D
Entries 43
Mean −0.003101
Std Dev 0.3022

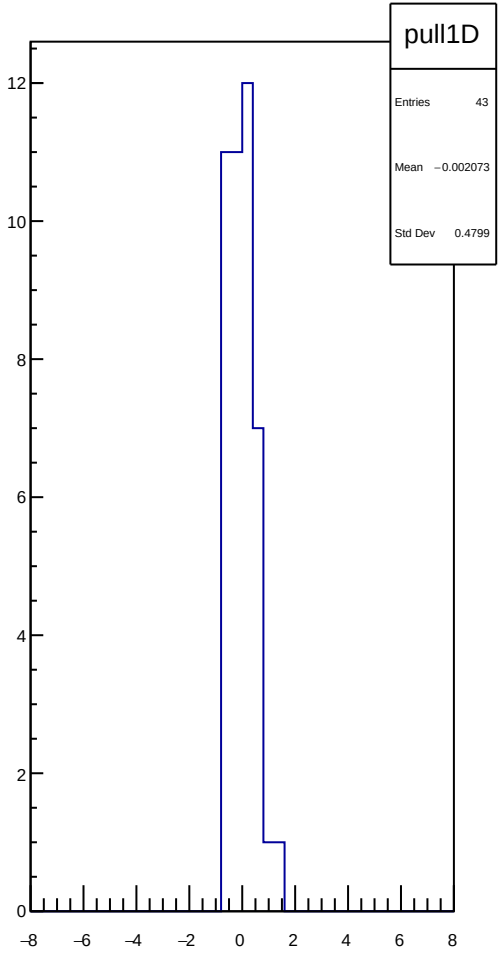

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 13.41 / 42
p0 −213.4 ± 0.479
−206
−208
−210
−212
−214
−216
−218
−220
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −379.6
Std Dev 408.6
1
0.5
0
−0.5
−1

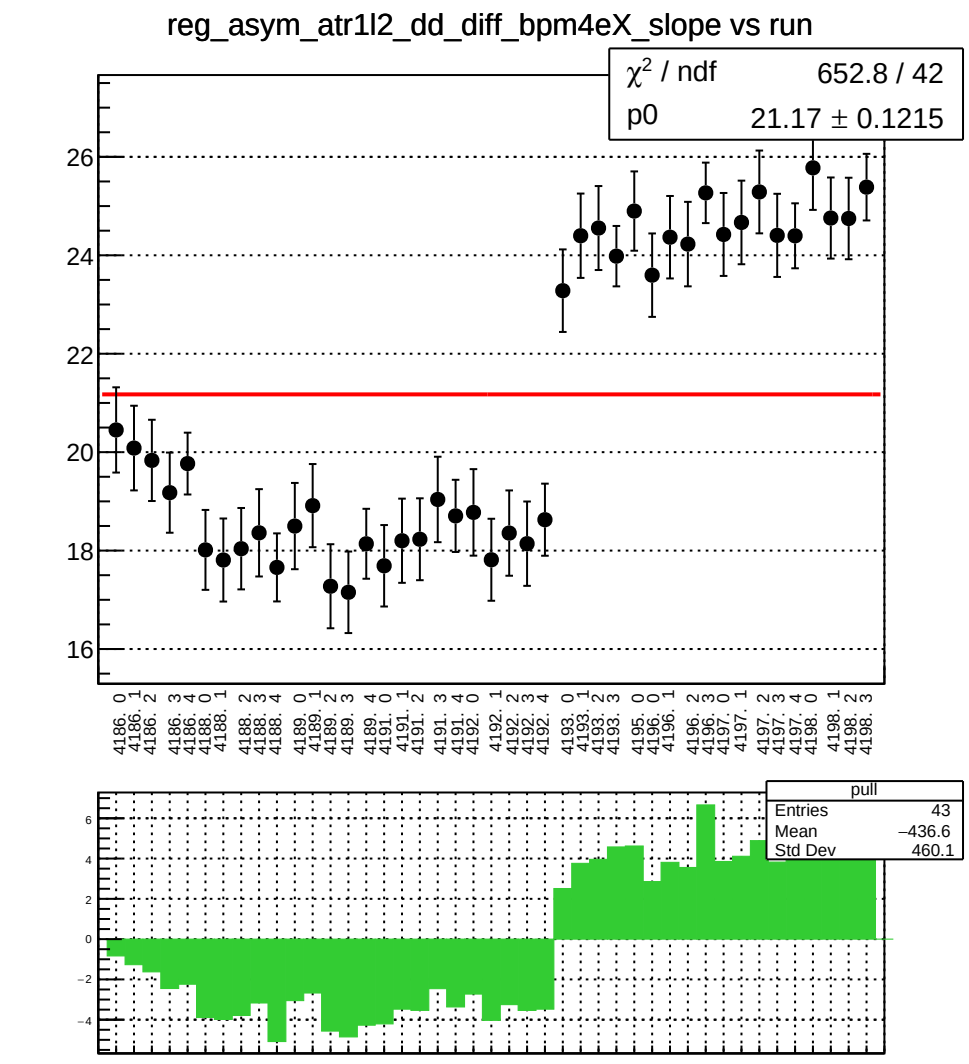

pull1D
Entries 43
Mean −0.006138
Std Dev 0.5584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

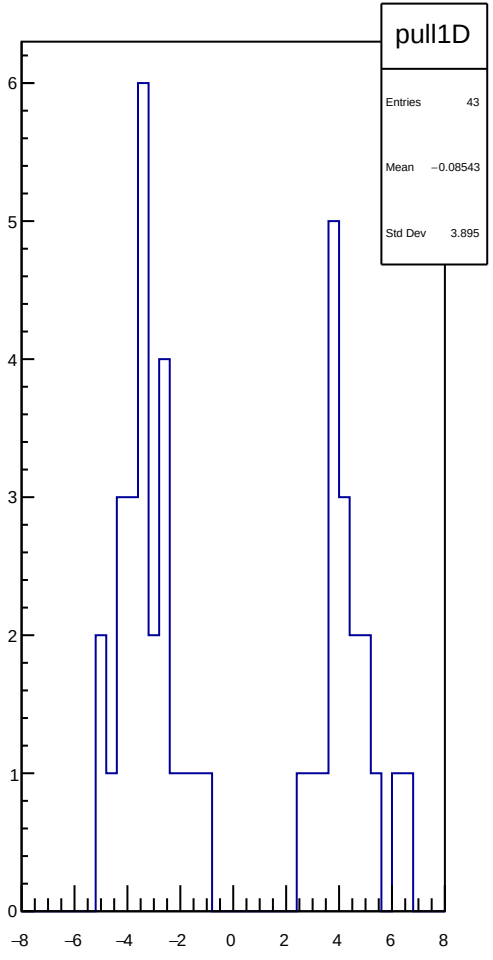

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 73.37 / 42
p0 15.03 ± 0.7235
pull
Entries 43
Mean −309.4
Std Dev 331.6

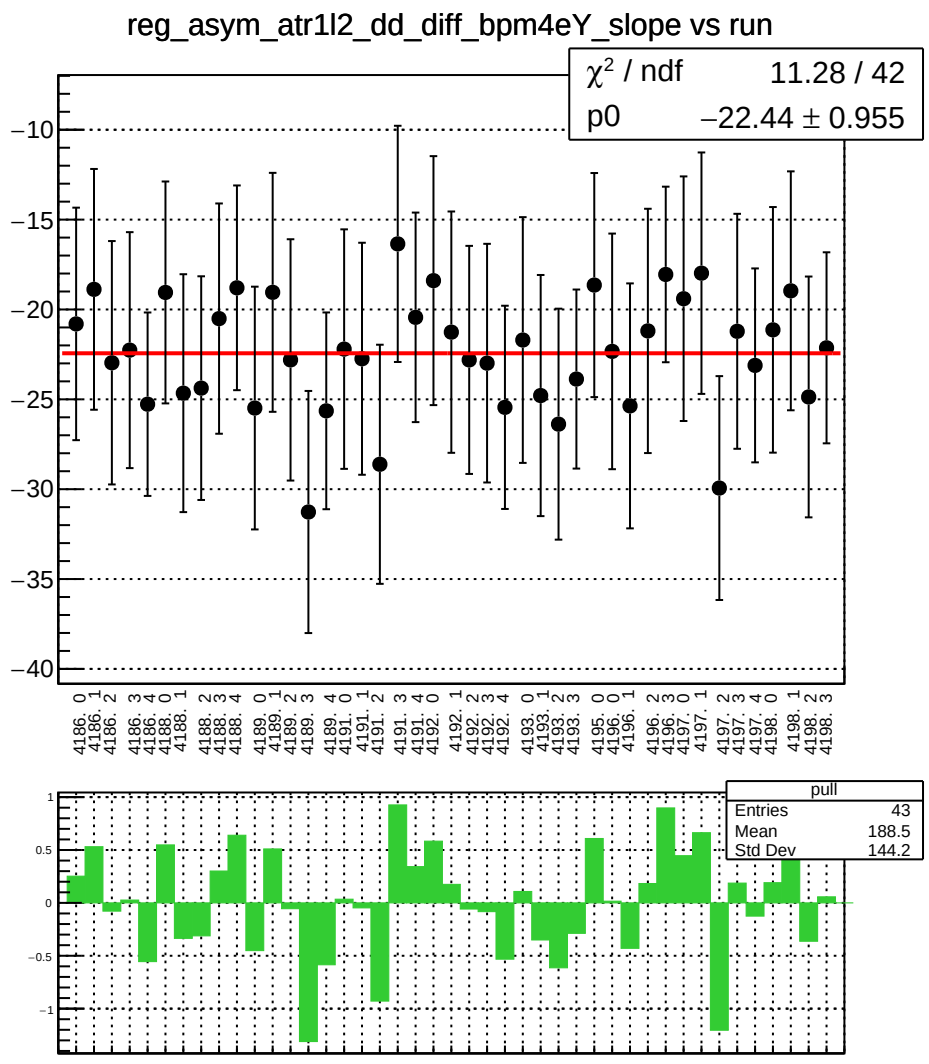

pull1D
Entries 43
Mean 0.03957
Std Dev 1.306

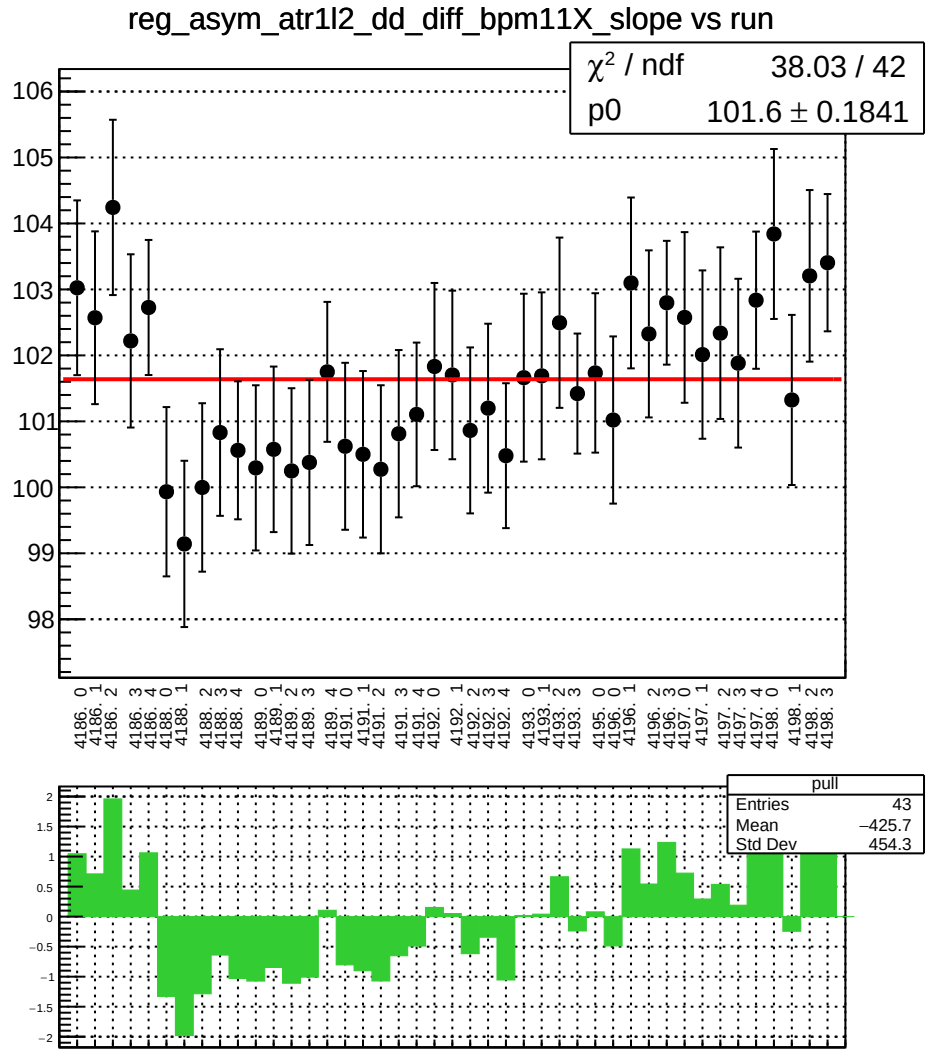

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.904 / 42
p0 −4.112 ± 0.5759
pull
Entries 43
Mean −72.66
Std Dev 68.07

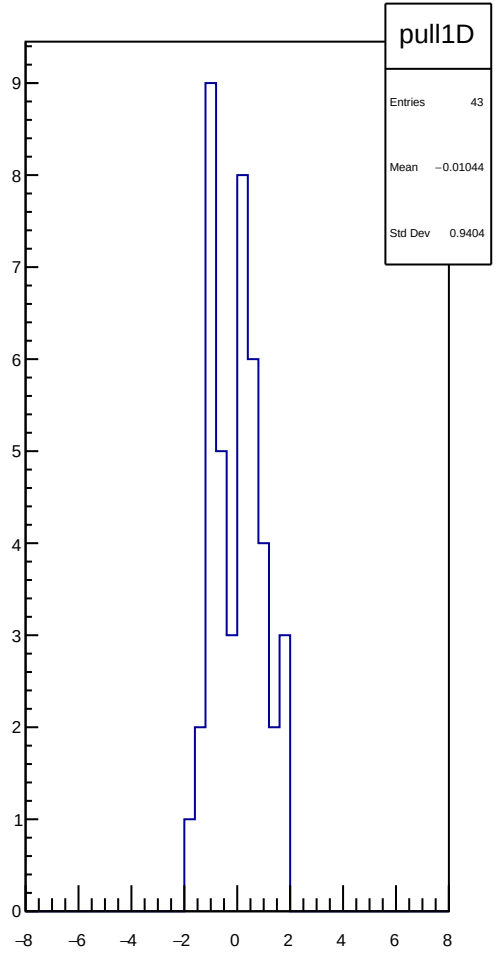

pull1D
Entries 43
Mean −0.002073
Std Dev 0.4799

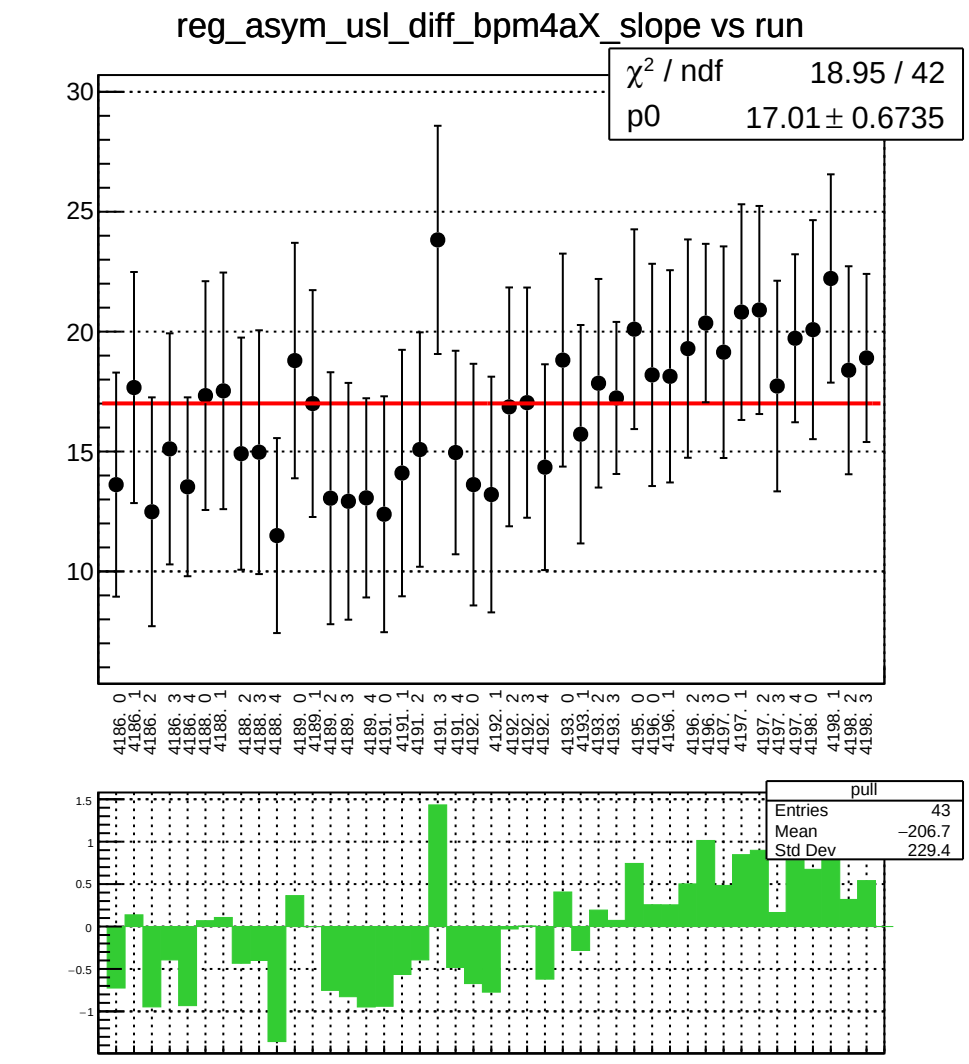

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 652.8 / 42
p0 21.17 ± 0.1215
pull
Entries 43
Mean −436.6
Std Dev 460.1

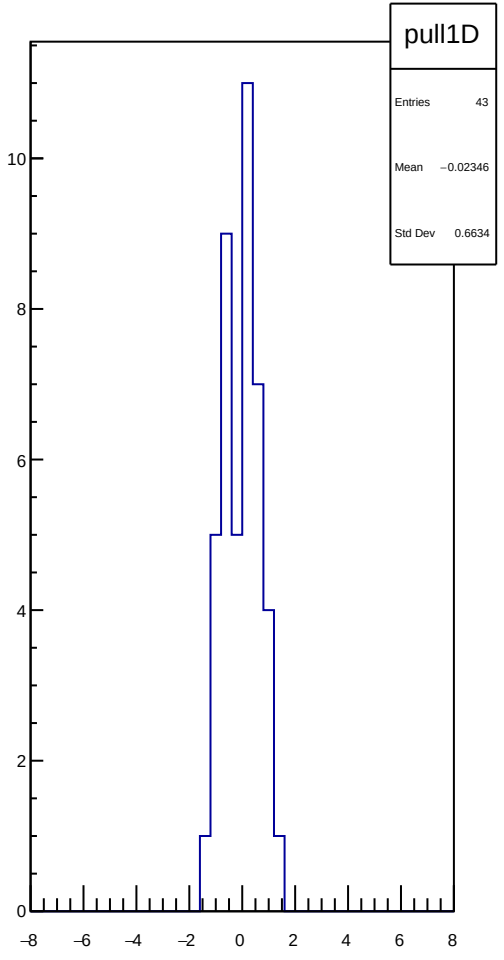

pull1D
Entries 43
Mean −0.08543
Std Dev 3.895

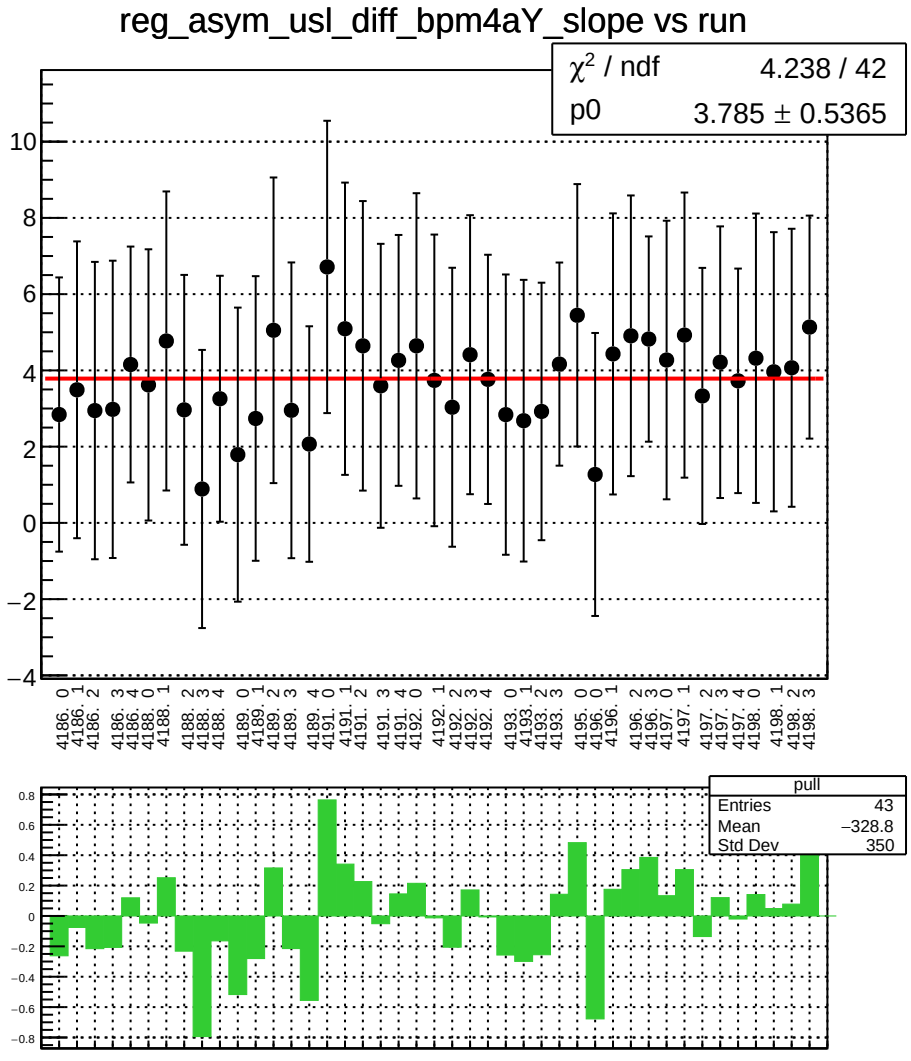

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.28 / 42
p0 −22.44 ± 0.955
−10
−15
−20
−25
−30
−35
−40
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 188.5
Std Dev 144.2
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.001122
Std Dev 0.5121
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

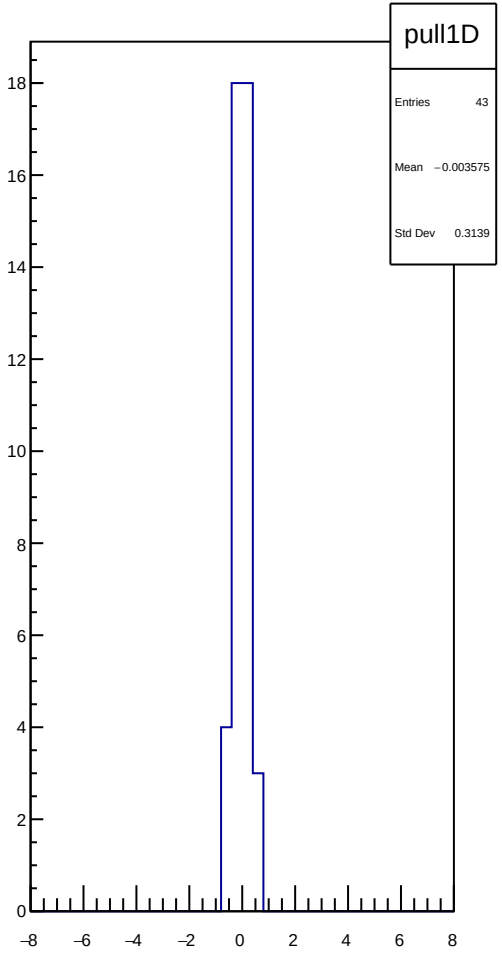

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 38.03 / 42
p0 101.6 ± 0.1841
pull
Entries 43
Mean −425.7
Std Dev 454.3

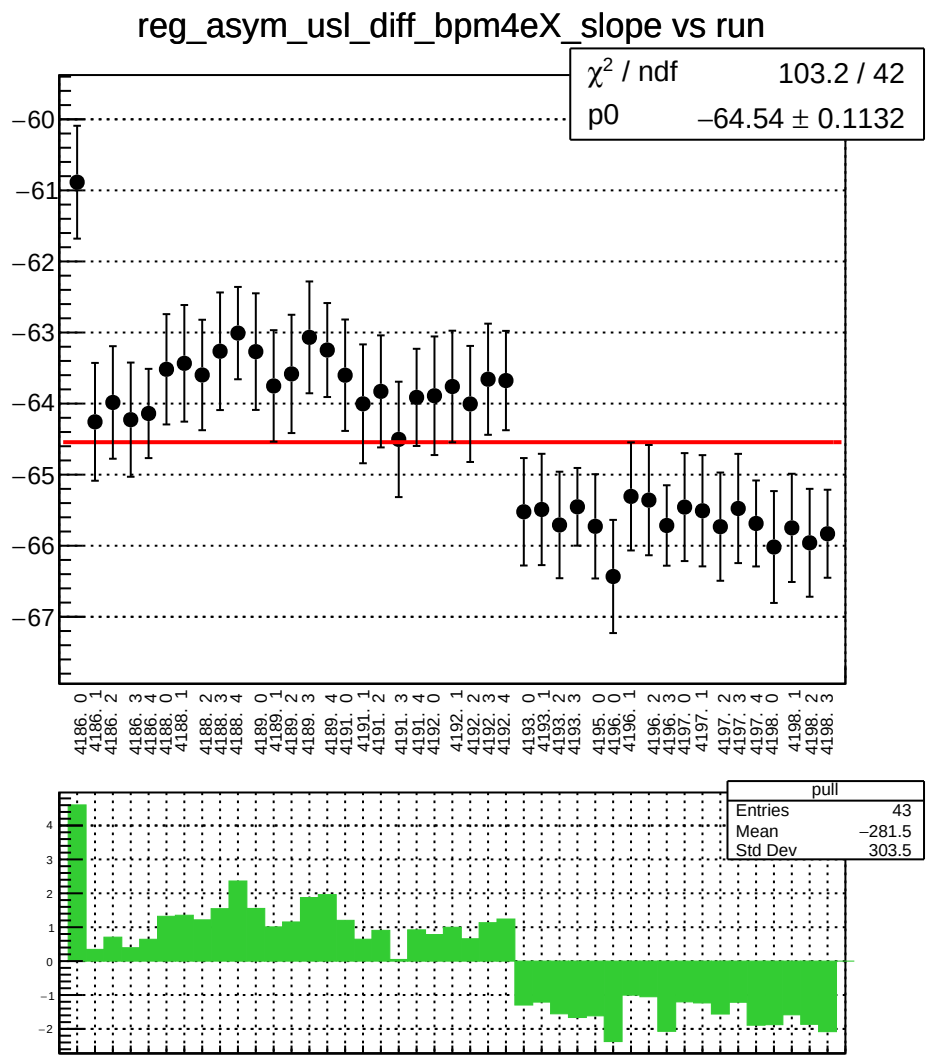

pull1D
Entries 43
Mean −0.01044
Std Dev 0.9404

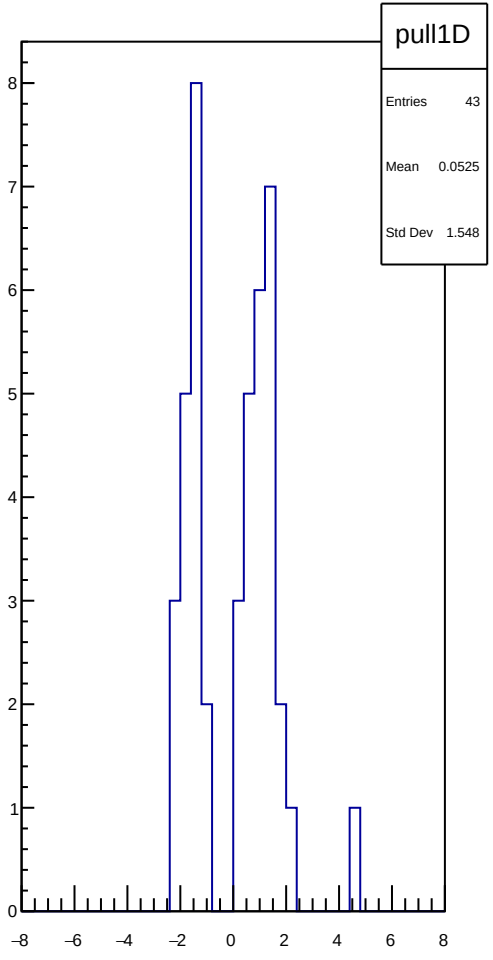

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 18.95 / 42
p0 17.01 ± 0.6735
pull
Entries 43
Mean −206.7
Std Dev 229.4

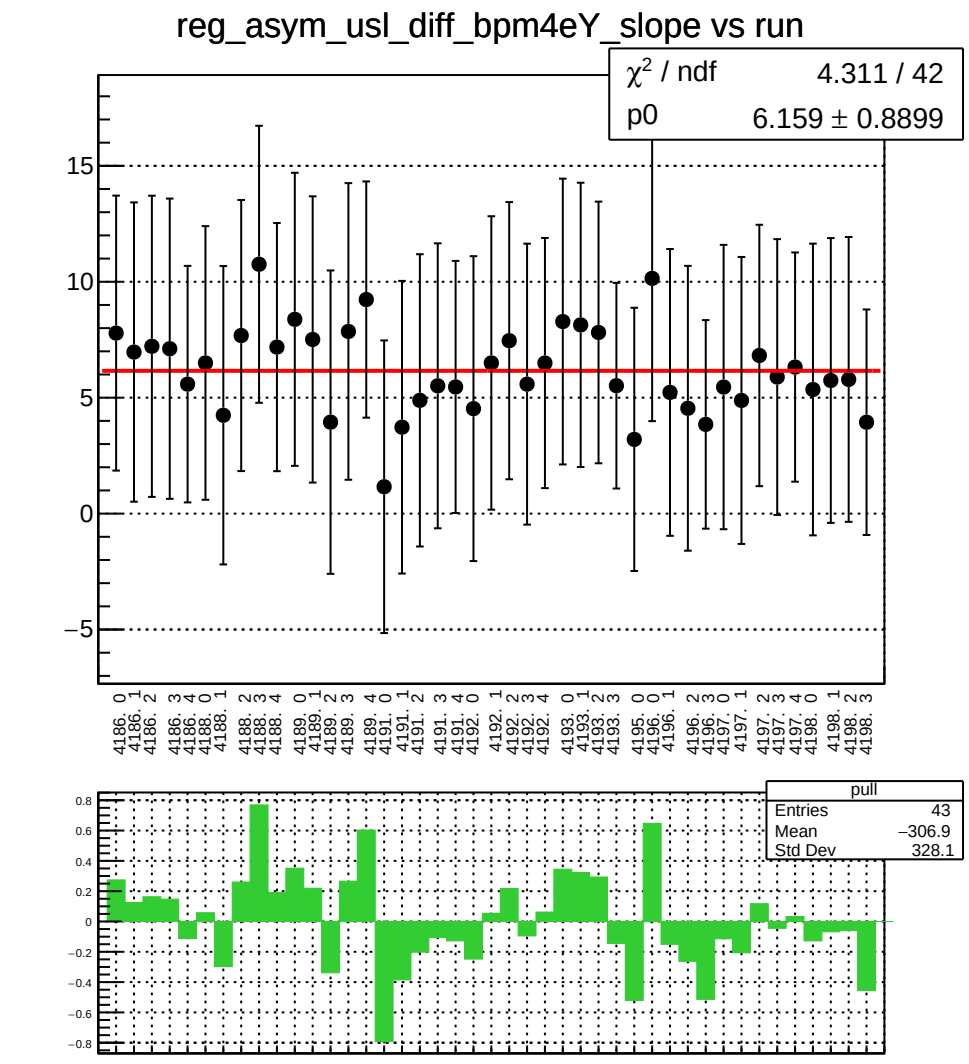

pull1D
Entries 43
Mean −0.02346
Std Dev 0.6634

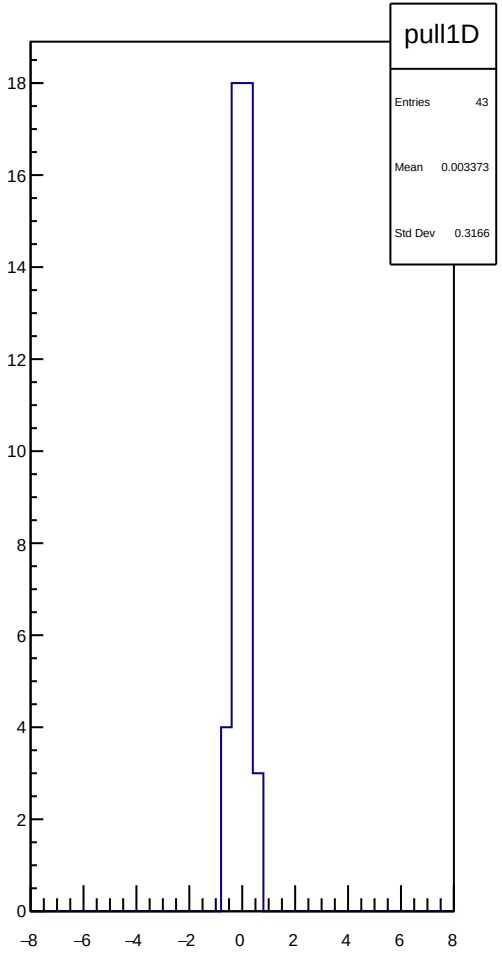

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 4.238 / 42
p0 3.785 ± 0.5365
pull
Entries 43
Mean −328.8
Std Dev 350

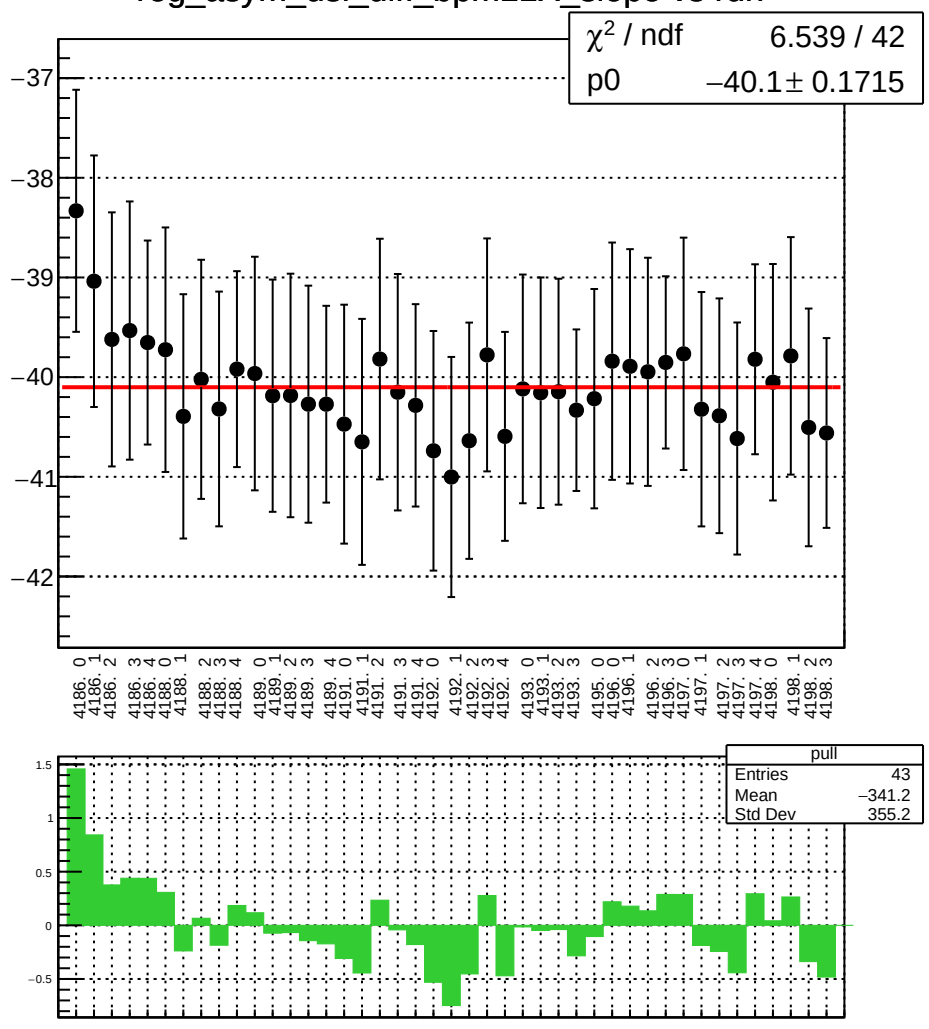

pull1D
Entries 43
Mean −0.003575
Std Dev 0.3139

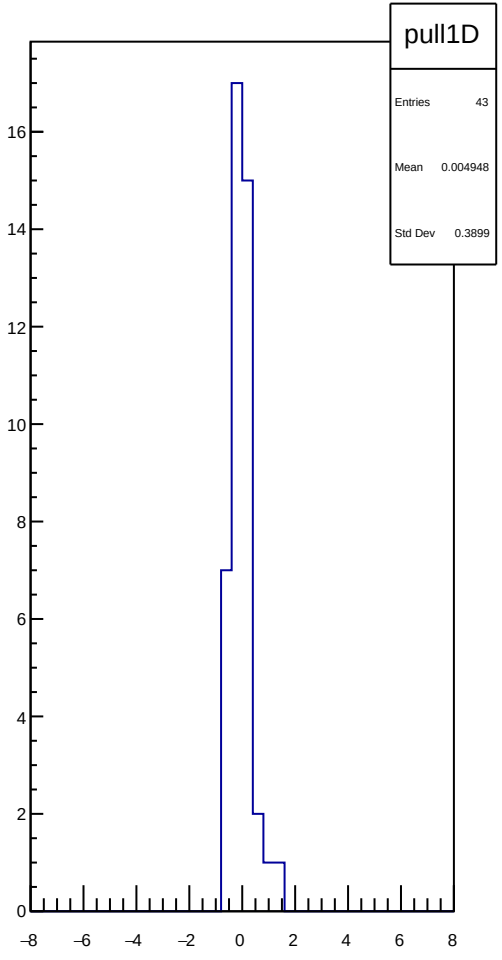

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 103.2 / 42
p0 −64.54 ± 0.1132
−60
−61
−62
−63
−64
−65
−66
−67
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −281.5
Std Dev 303.5
4
3
2
1
0
−1
−2

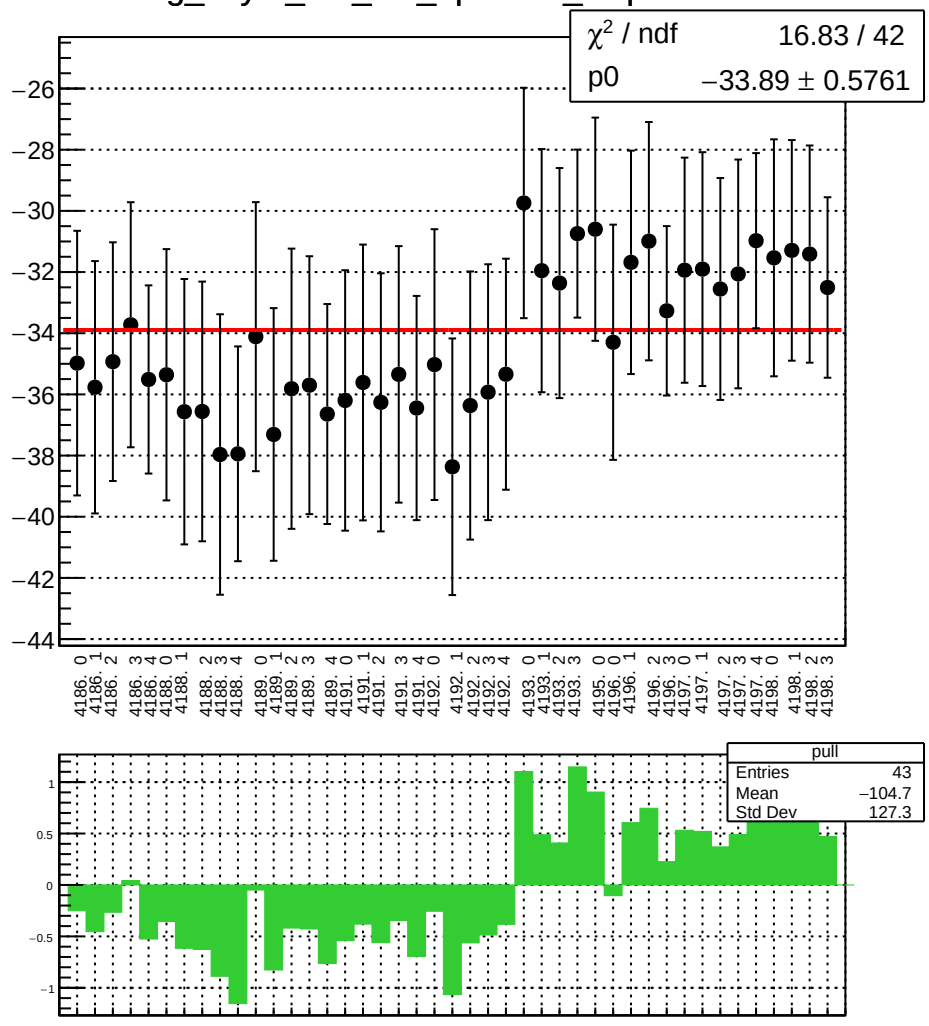

pull1D
Entries 43
Mean 0.0525
Std Dev 1.548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

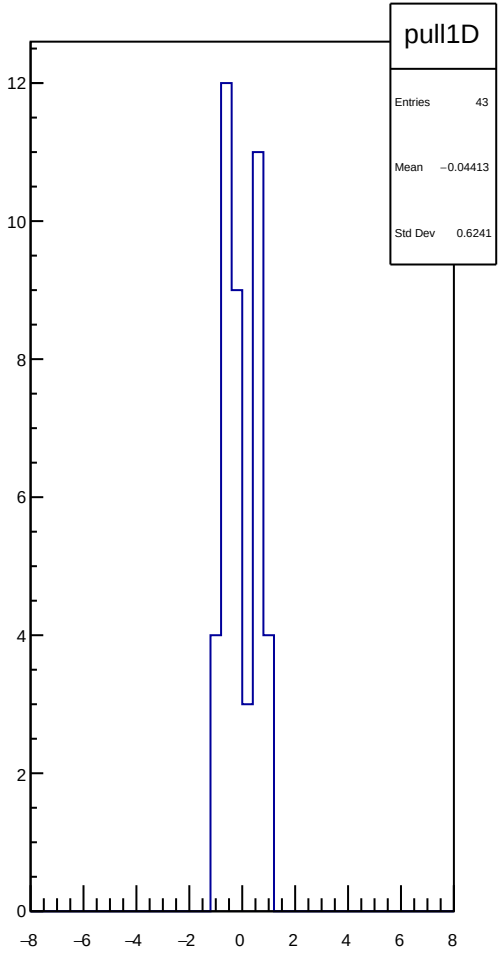

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 4.311 / 42
p0 6.159 ± 0.8899
pull
Entries 43
Mean −306.9
Std Dev 328.1

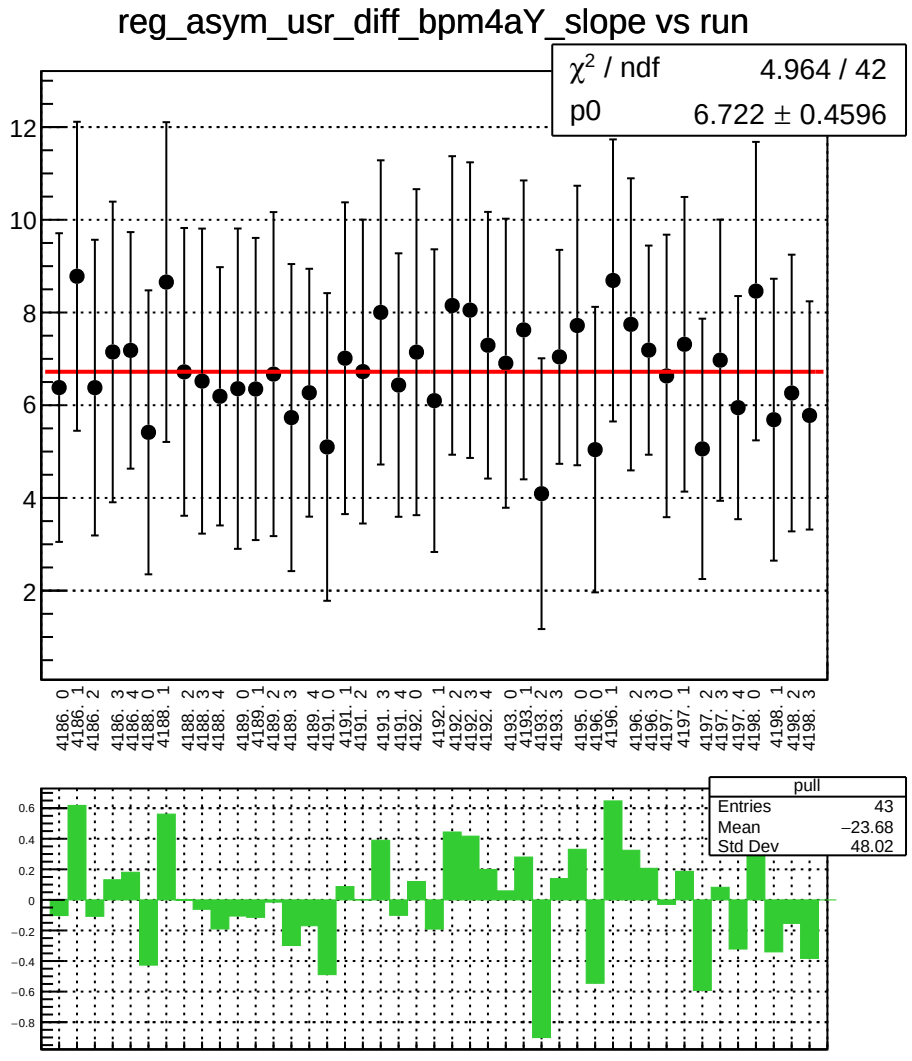

pull1D
Entries 43
Mean 0.003373
Std Dev 0.3166

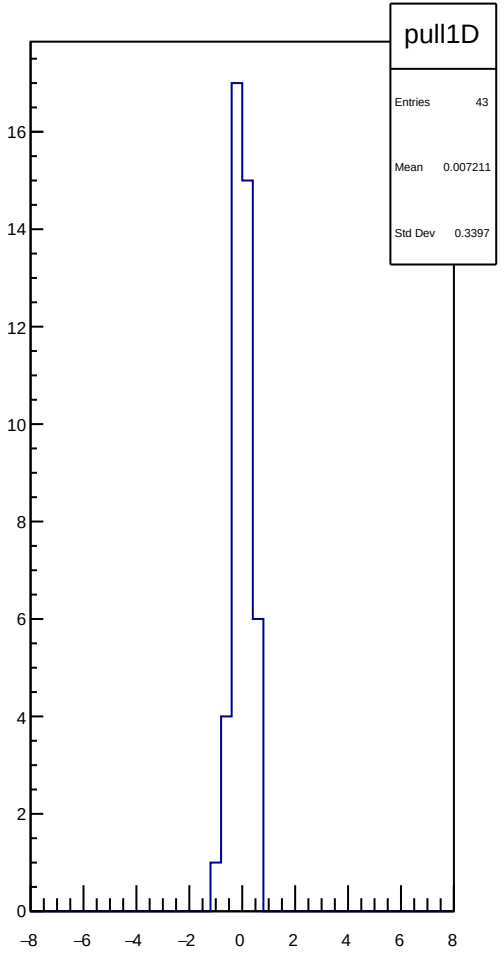

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 6.539 / 42
p0 −40.1 ± 0.1715
pull
Entries 43
Mean −341.2
Std Dev 355.2

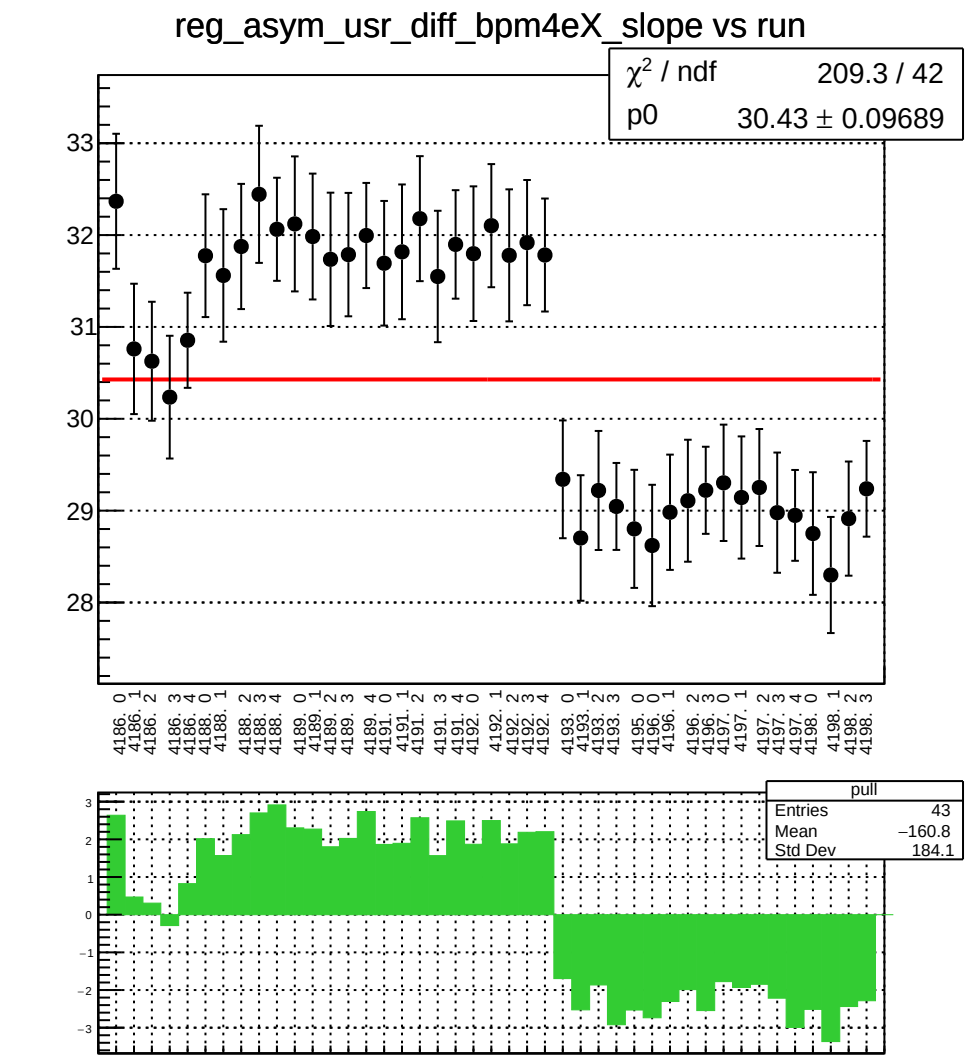

pull1D
Entries 43
Mean 0.004948
Std Dev 0.3899

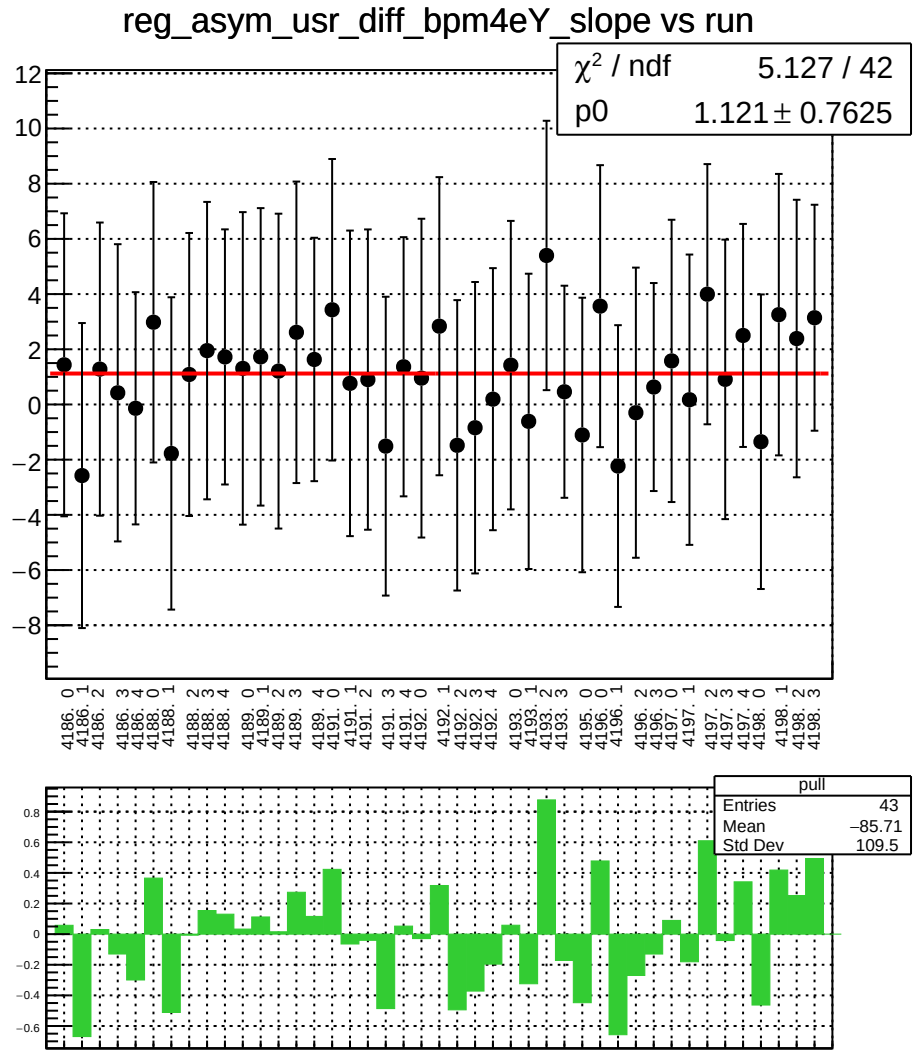

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 16.83 / 42
p0 −33.89 ± 0.5761
pull
Entries 43
Mean −104.7
Std Dev 127.3

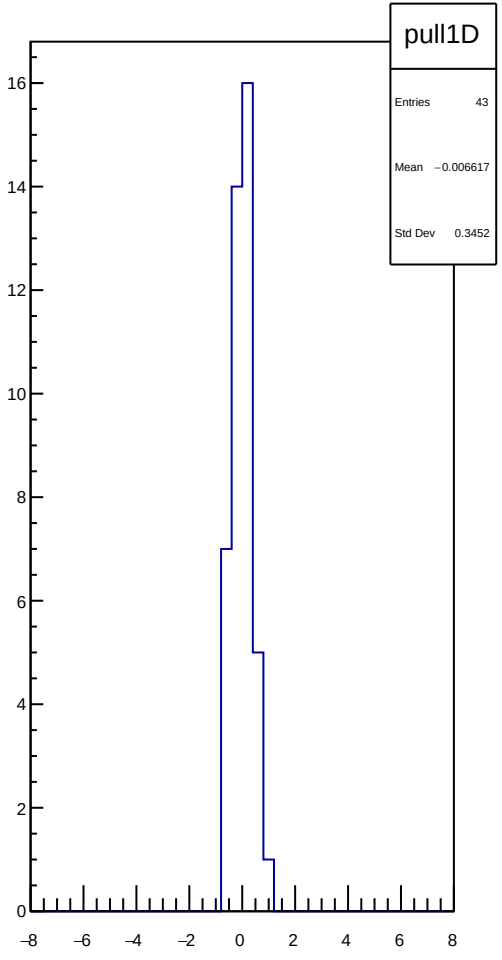

pull1D
Entries 43
Mean −0.04413
Std Dev 0.6241

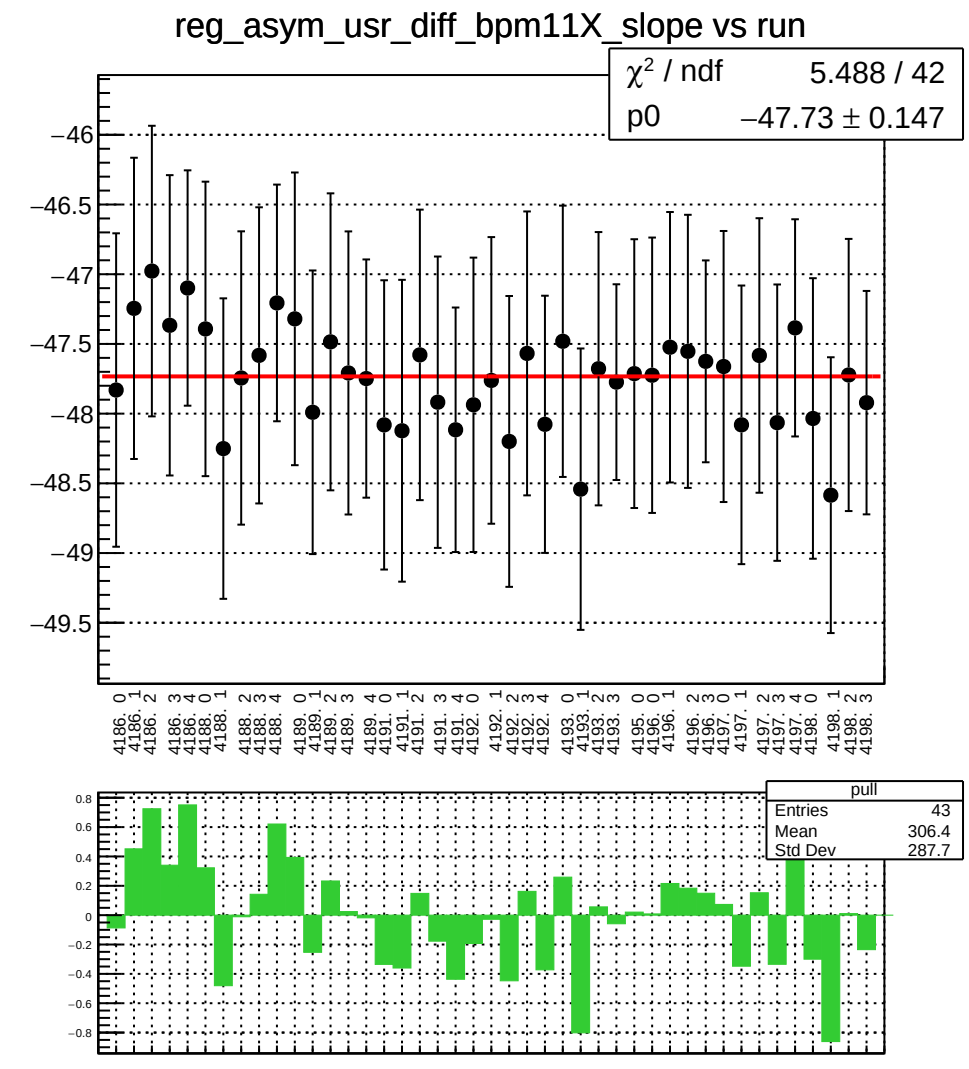

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.964 / 42
p0 6.722 ± 0.4596
pull
Entries 43
Mean −23.68
Std Dev 48.02

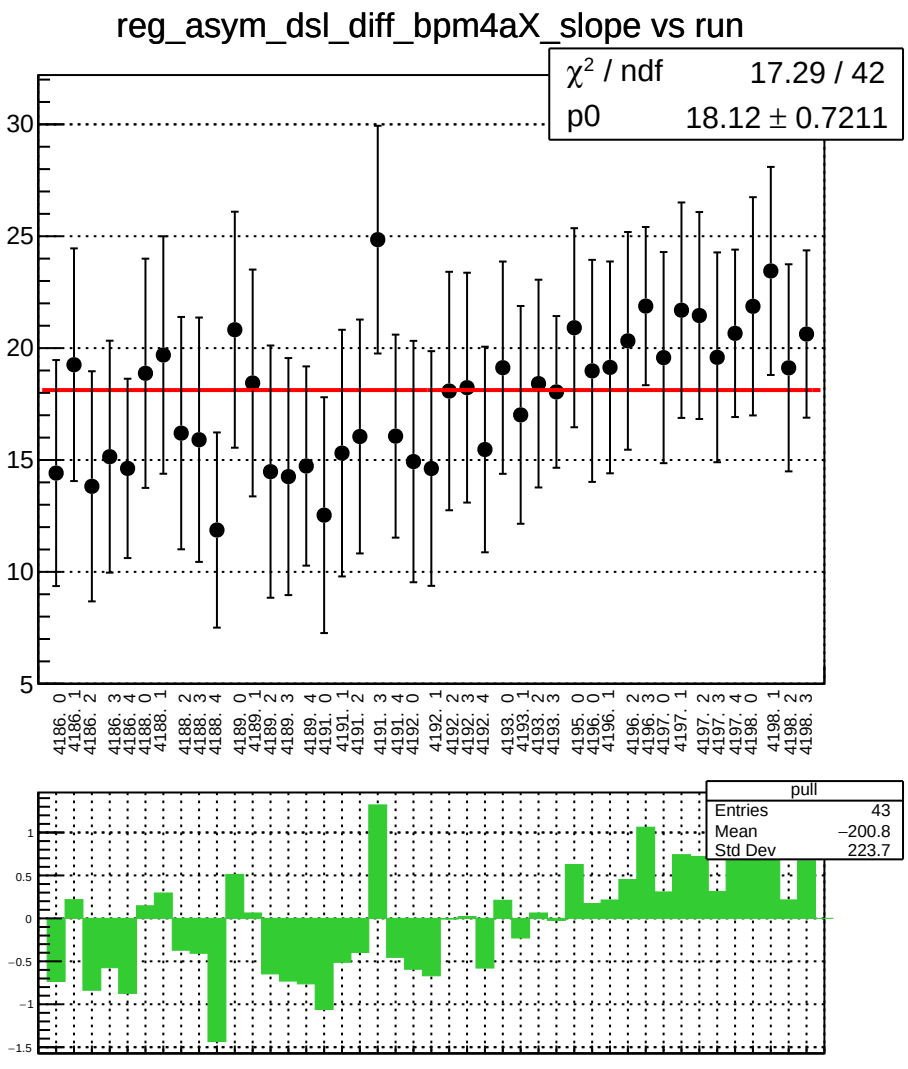

pull1D
Entries 43
Mean 0.007211
Std Dev 0.3397

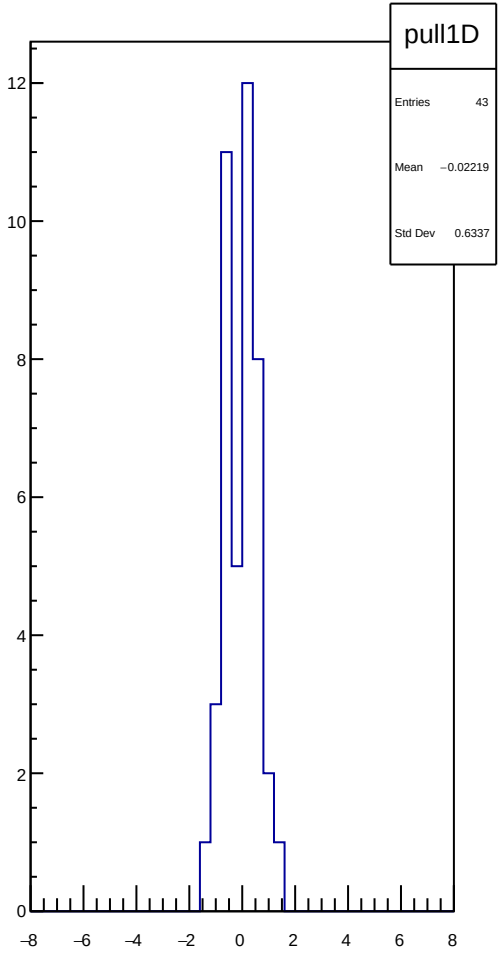

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 209.3 / 42
p0 30.43 ± 0.09689
33
32
31
30
29
28
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −160.8
Std Dev 184.1
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.1155
Std Dev 2.203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

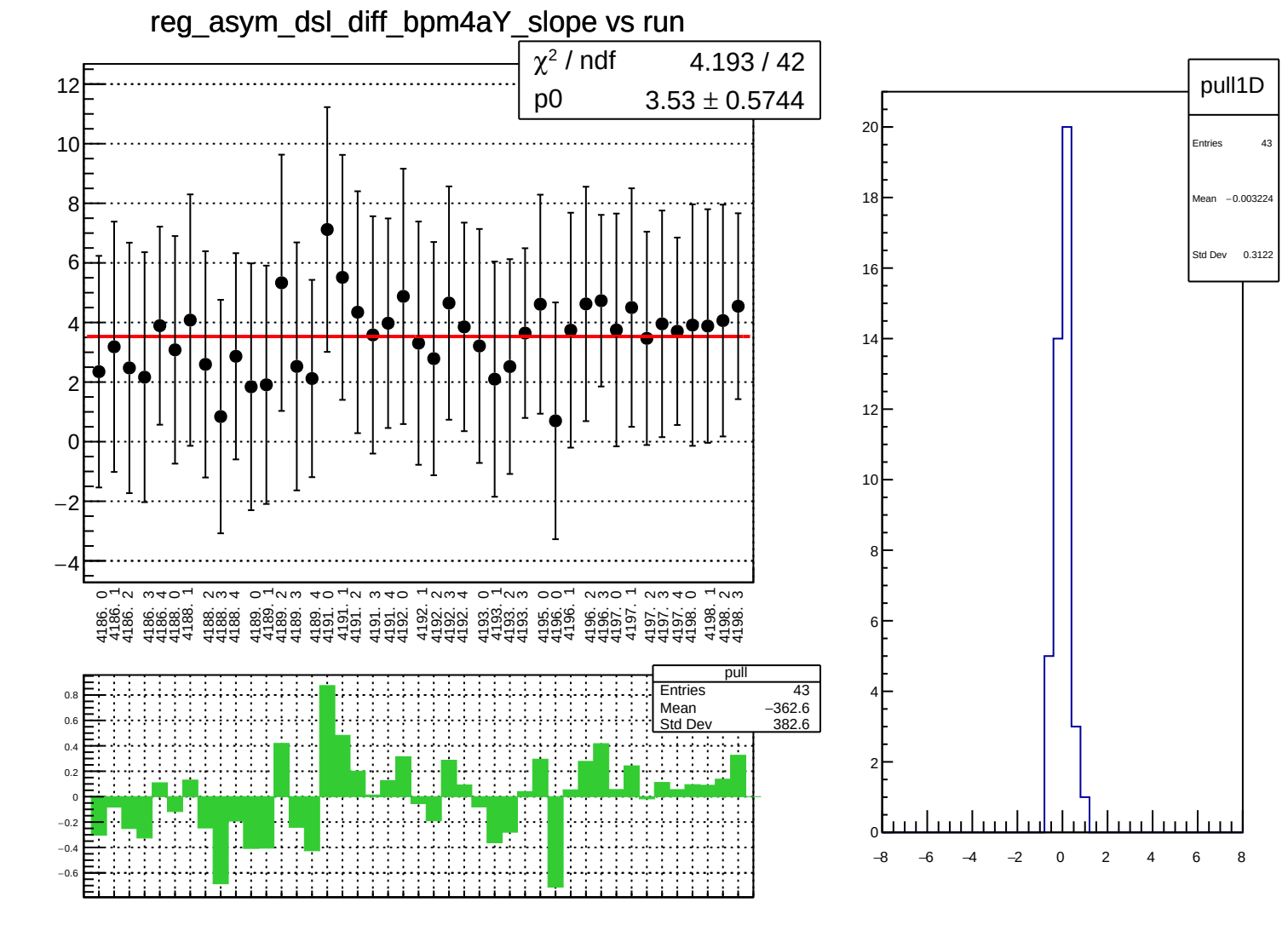

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 5.127 / 42
p0 1.121 ± 0.7625
pull
Entries 43
Mean −85.71
Std Dev 109.5

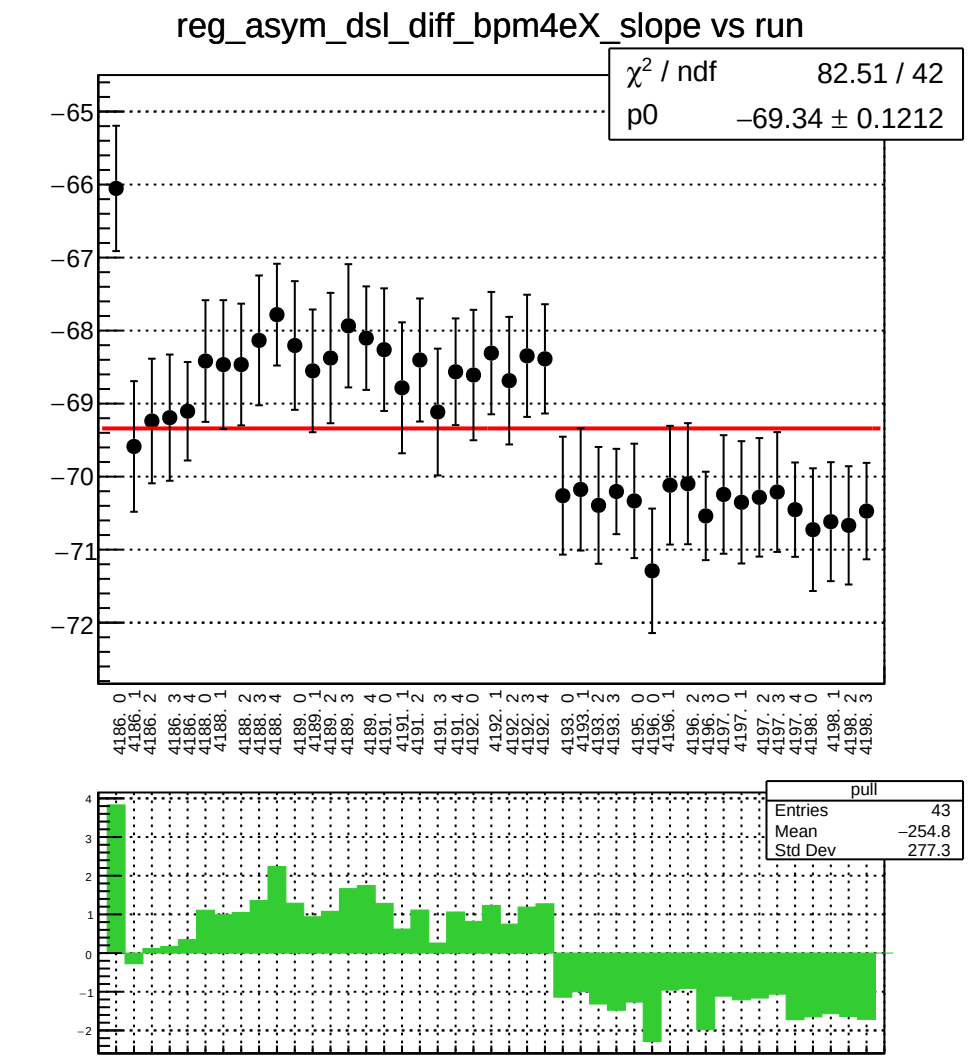

pull1D
Entries 43
Mean −0.006617
Std Dev 0.3452

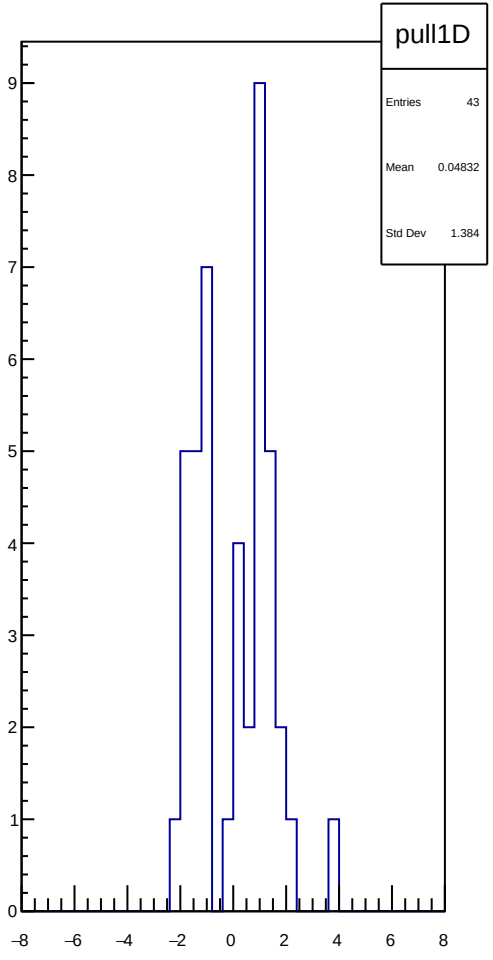

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 5.488 / 42
p0 −47.73 ± 0.147
−46
−46.5
−47
−47.5
−48
−48.5
−49
−49.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 306.4
Std Dev 287.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.00572
Std Dev 0.3572
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

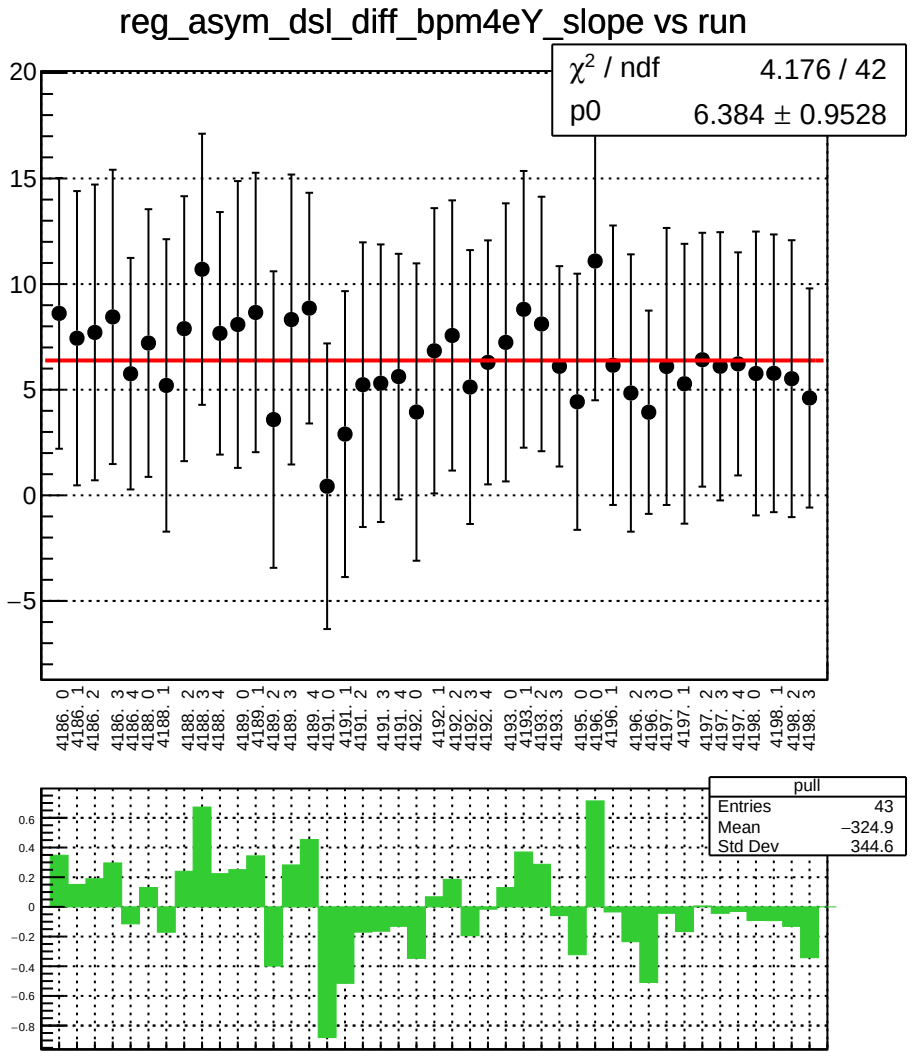

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 17.29 / 42
p0 18.12 ± 0.7211
pull
Entries 43
Mean −200.8
Std Dev 223.7

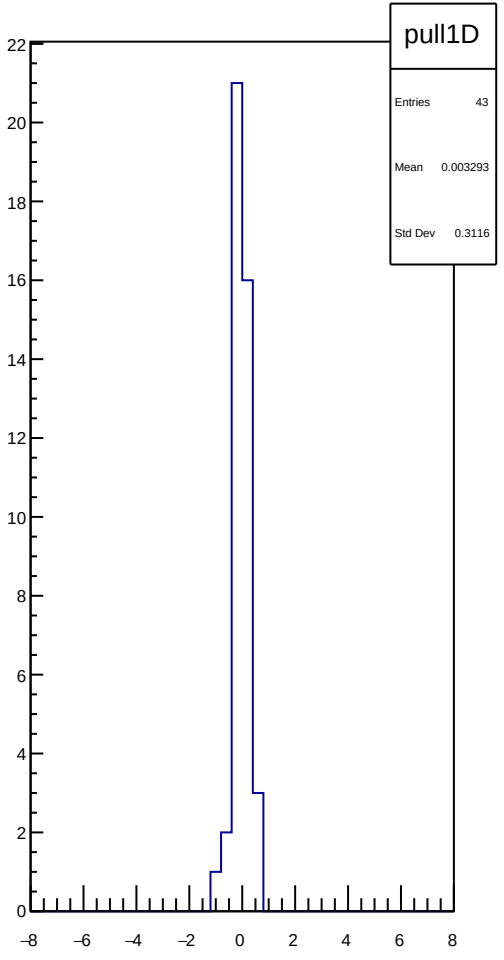

pull1D
Entries 43
Mean −0.02219
Std Dev 0.6337

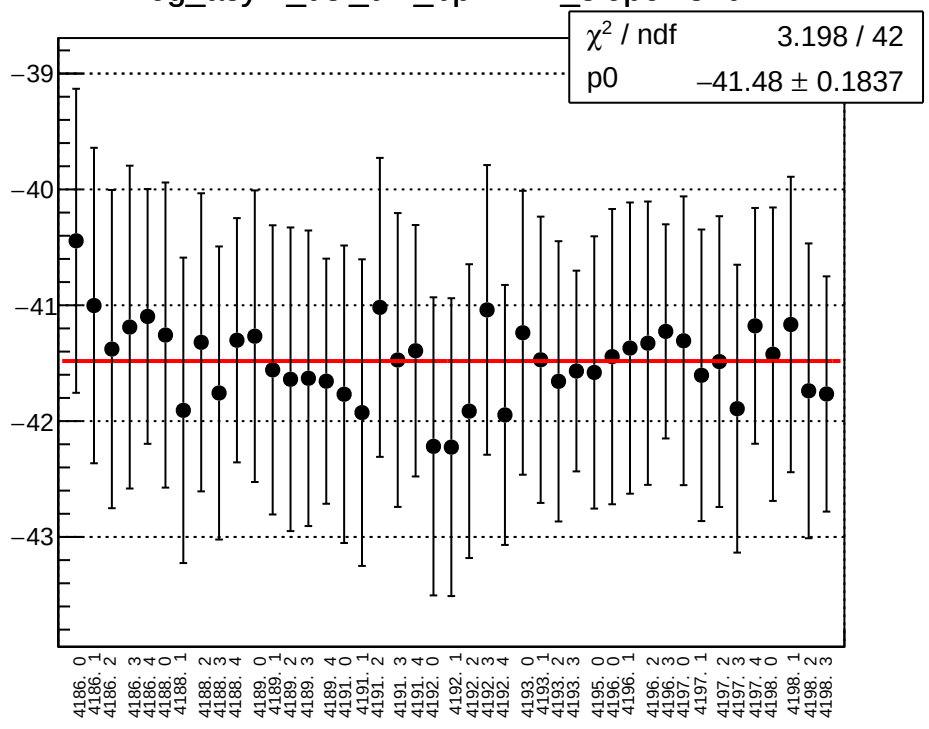

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 4.193 / 42
p0 3.53 ± 0.5744
pull
Entries 43
Mean −362.6
Std Dev 382.6
pull1D
Entries 43
Mean −0.003224
Std Dev 0.3122

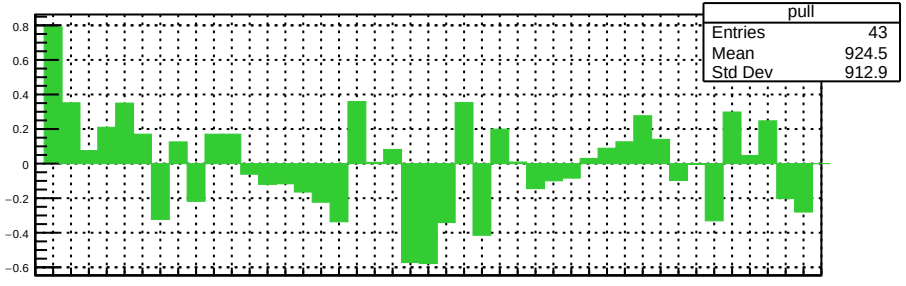

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 82.51 / 42
p0 −69.34 ± 0.1212
pull
Entries 43
Mean −254.8
Std Dev 277.3

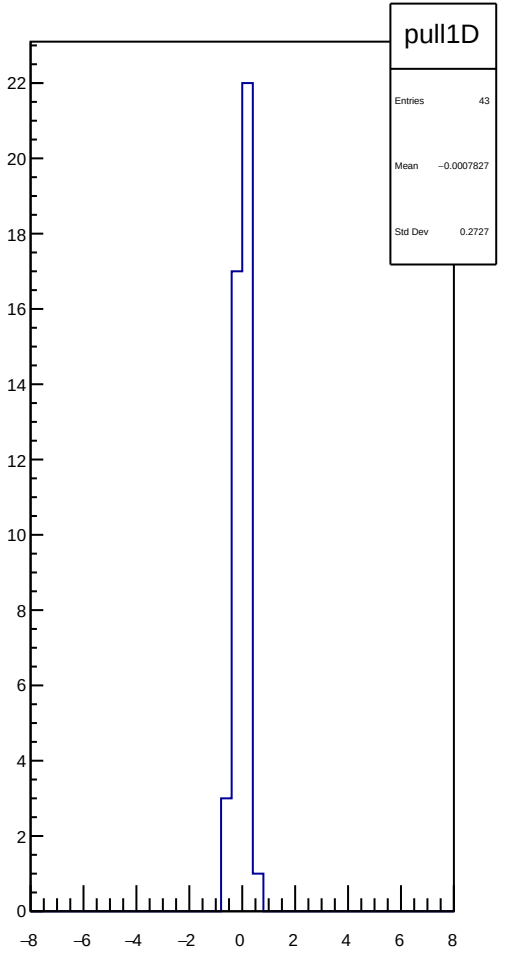

pull1D
Entries 43
Mean 0.04832
Std Dev 1.384

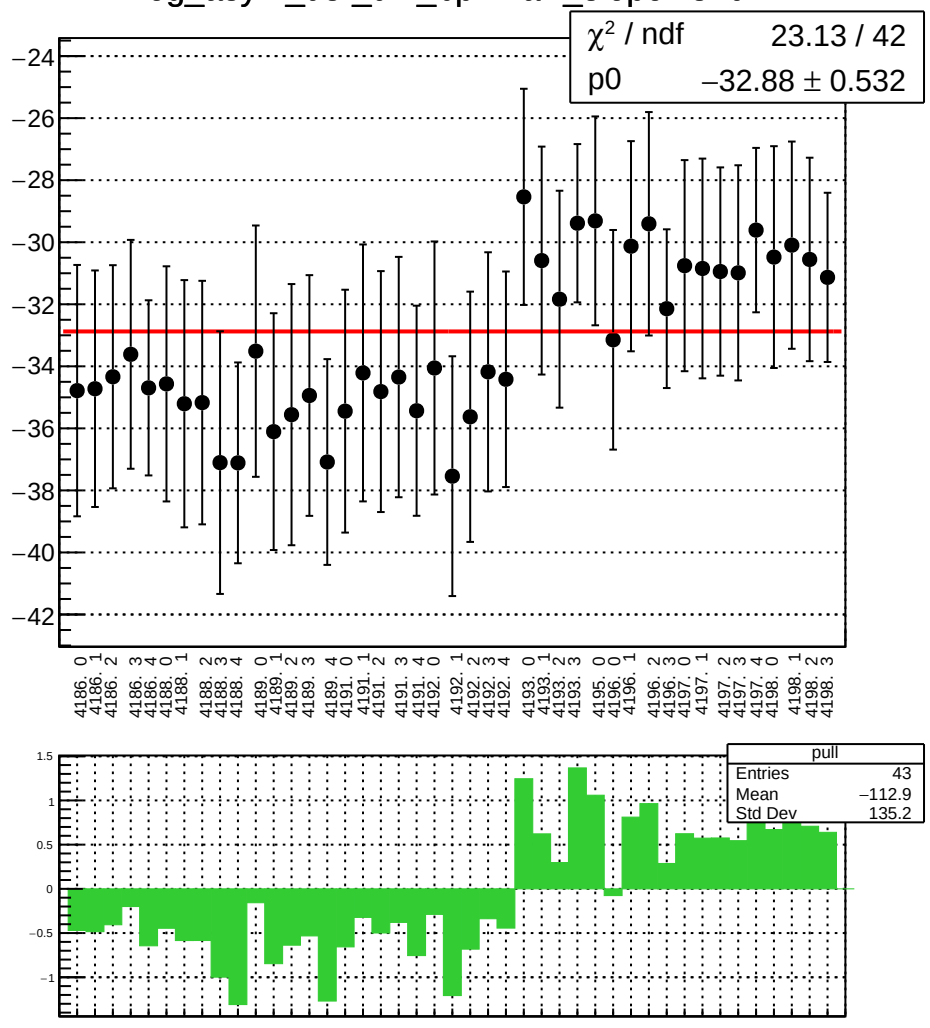

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 4.176 / 42
p0 6.384 ± 0.9528
pull
Entries 43
Mean −324.9
Std Dev 344.6

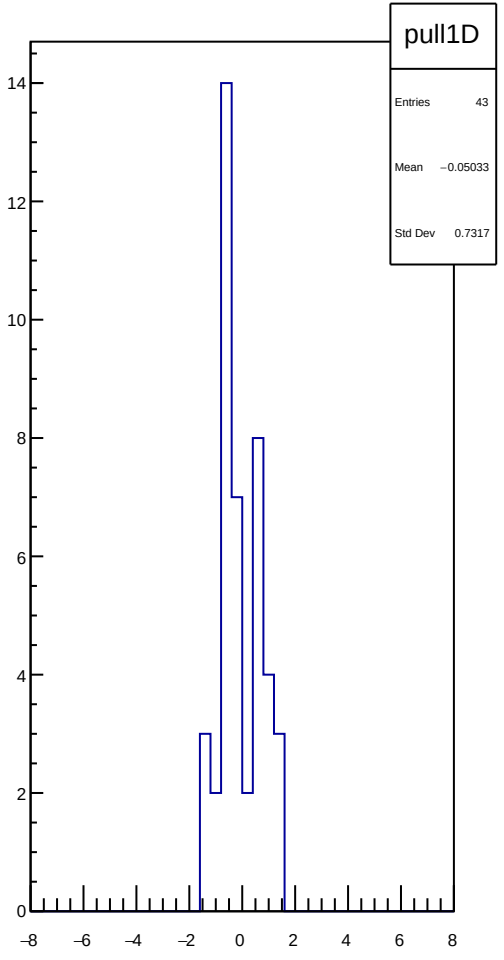

pull1D
Entries 43
Mean 0.003293
Std Dev 0.3116

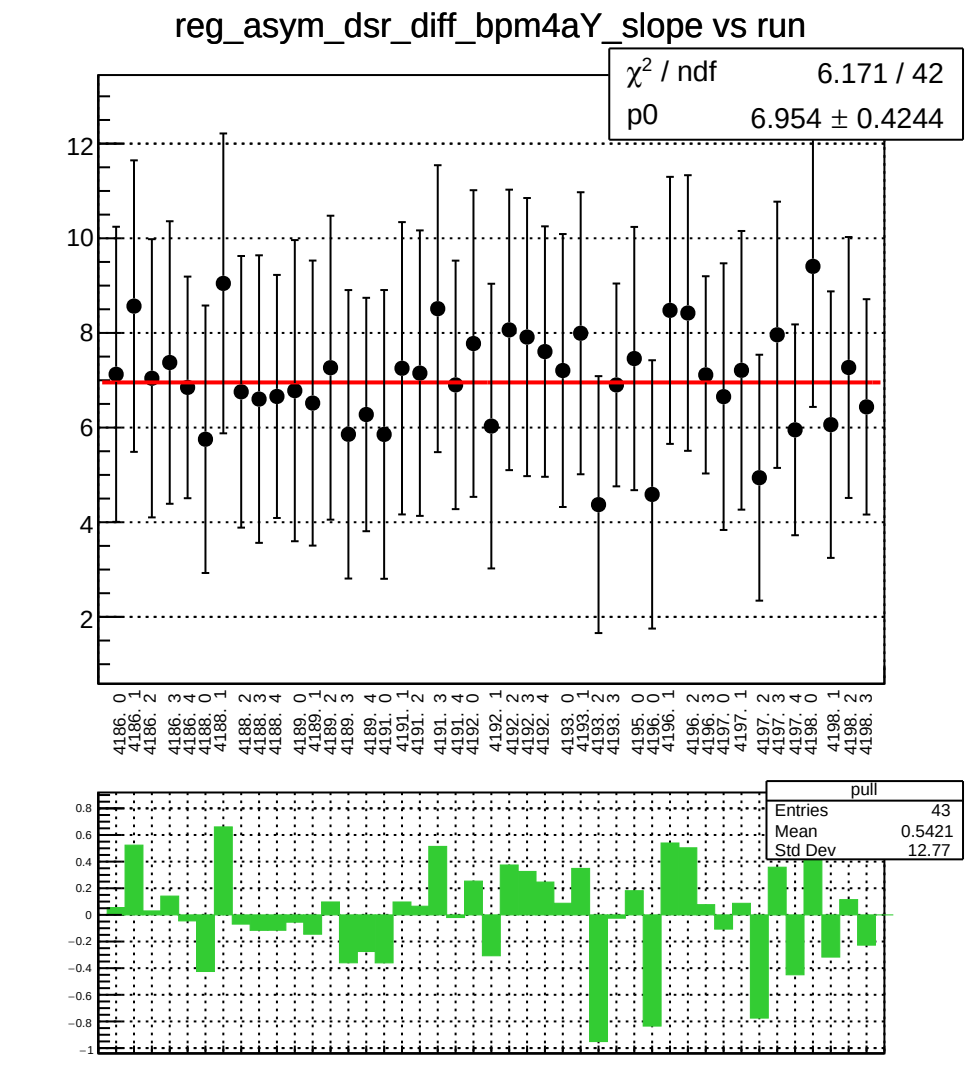

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 3.198 / 42
p0 −41.48 ± 0.1837
−39
−40
−41
−42
−43
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

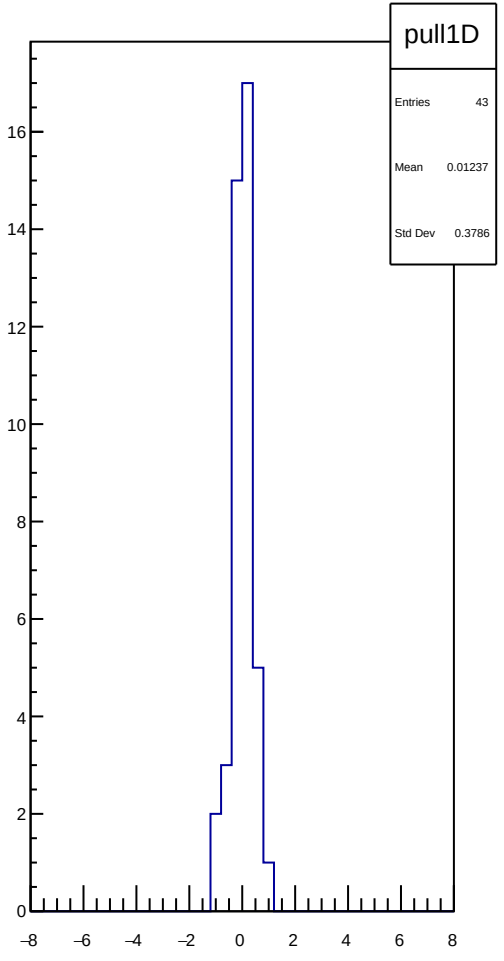

pull
Entries 43
Mean 924.5
Std Dev 912.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

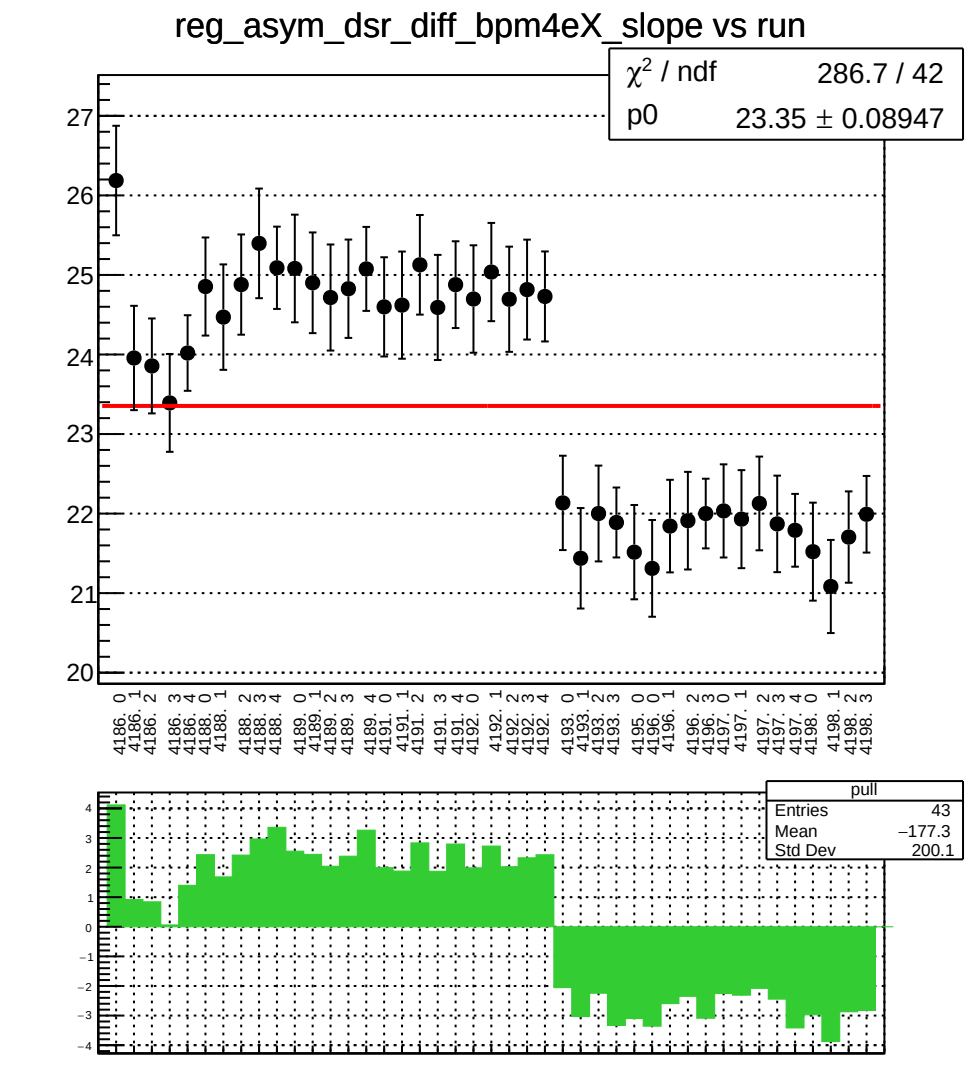

pull1D
Entries 43
Mean −0.0007827
Std Dev 0.2727
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

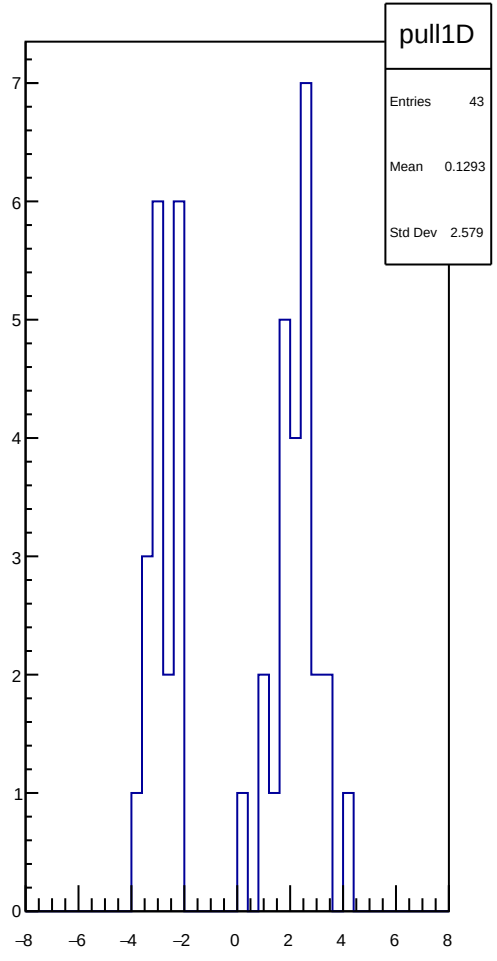

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 23.13 / 42
p0 −32.88 ± 0.532
pull
Entries 43
Mean −112.9
Std Dev 135.2

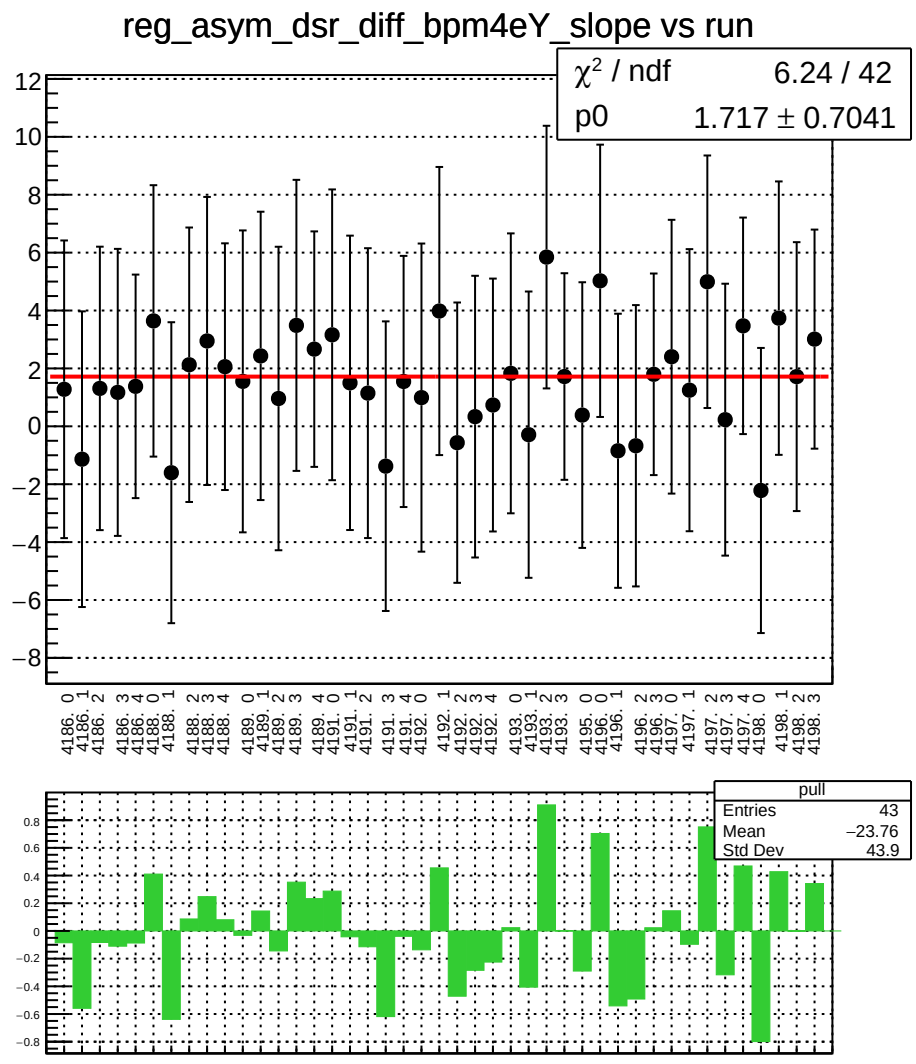

pull1D
Entries 43
Mean −0.05033
Std Dev 0.7317

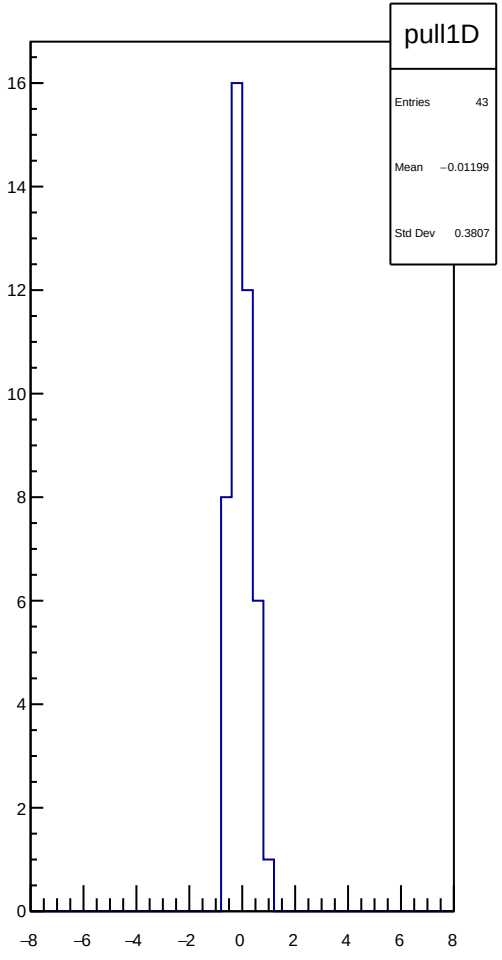

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 6.171 / 42
p0 6.954 ± 0.4244
pull
Entries 43
Mean 0.5421
Std Dev 12.77

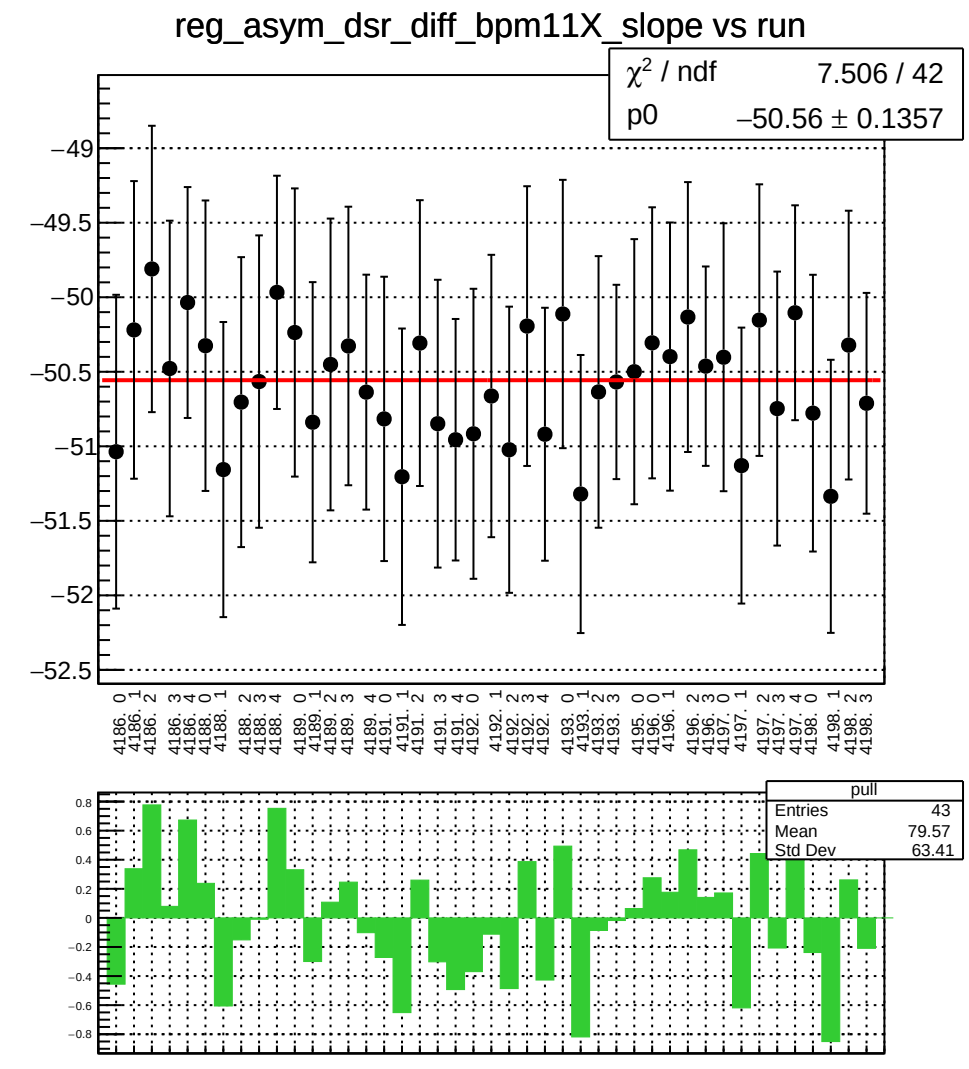

pull1D
Entries 43
Mean 0.01237
Std Dev 0.3786

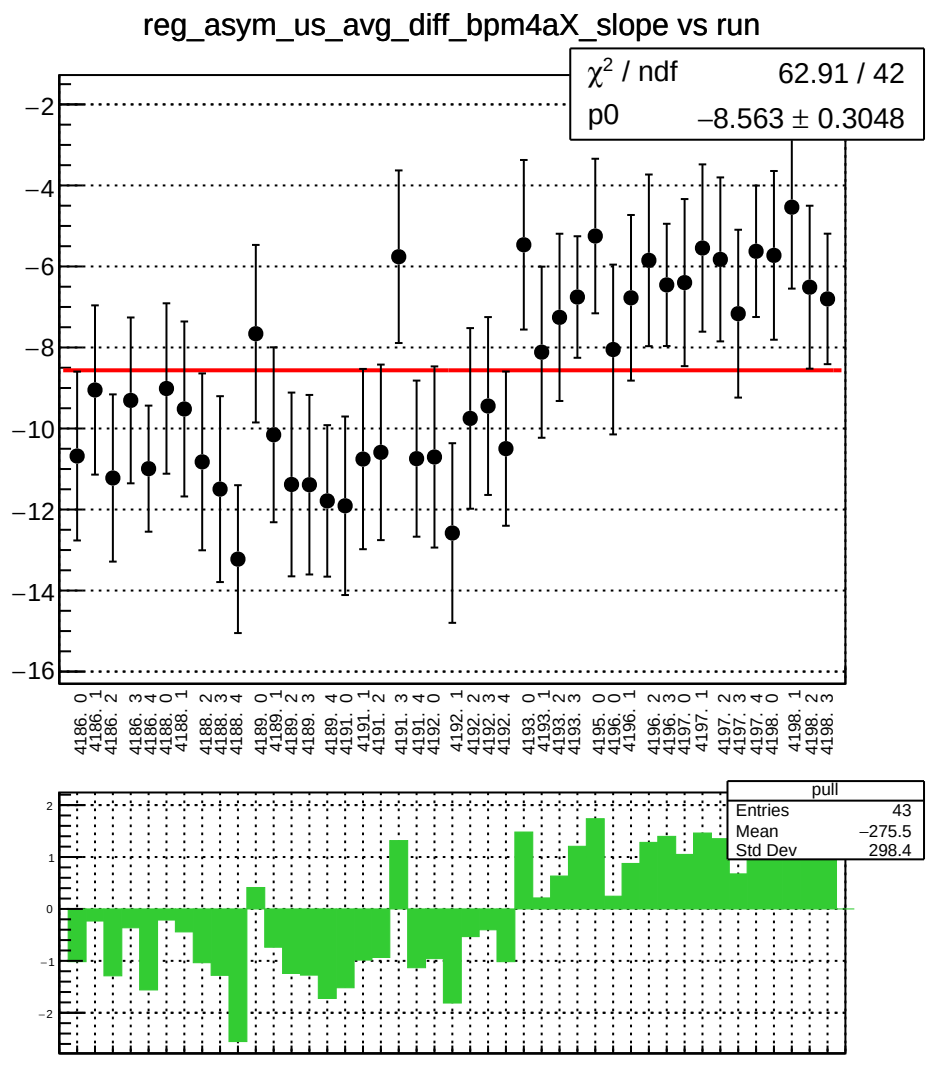

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 286.7 / 42
p0 23.35 ± 0.08947
pull
Entries 43
Mean −177.3
Std Dev 200.1

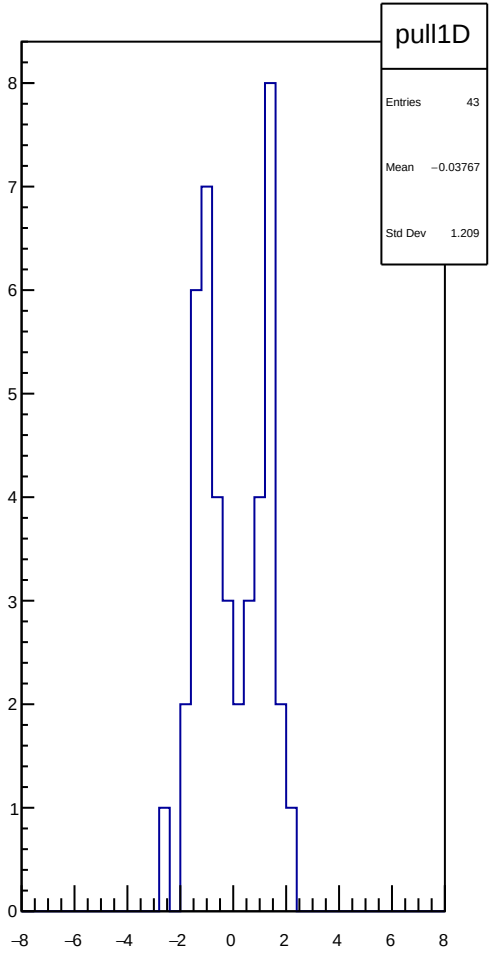

pull1D
Entries 43
Mean 0.1293
Std Dev 2.579

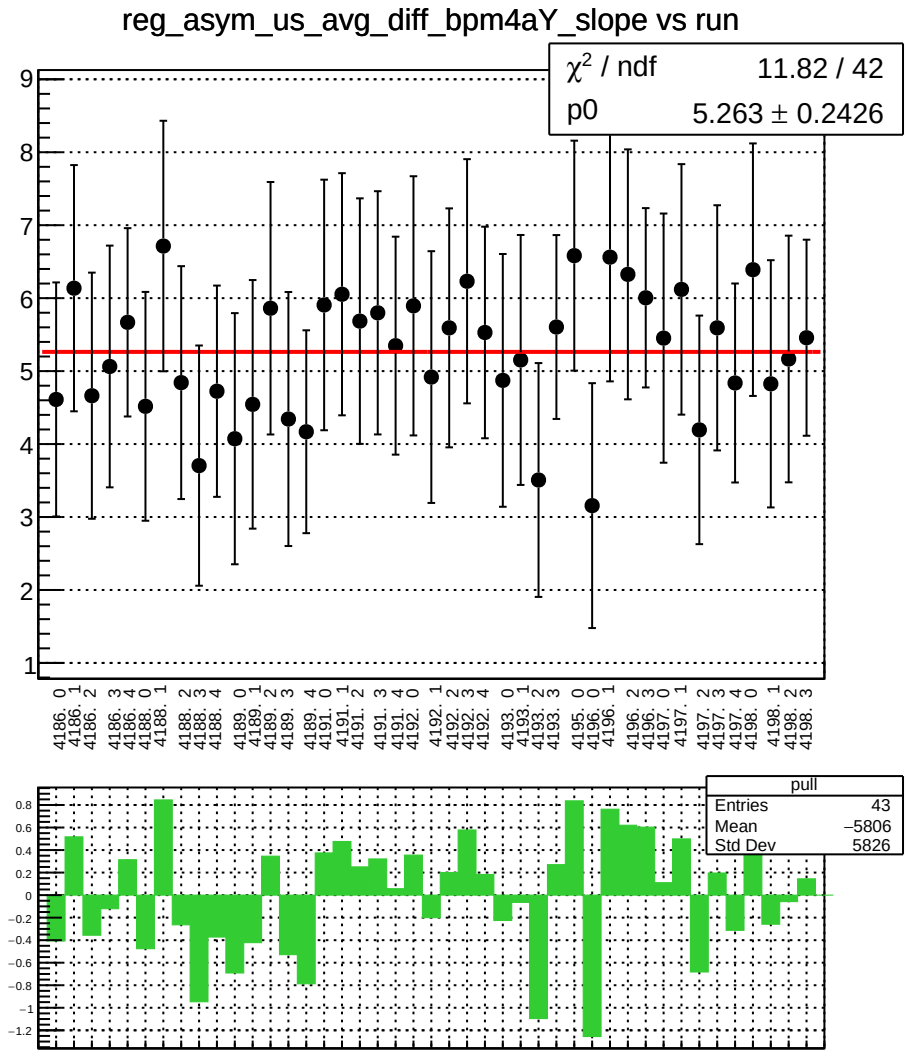

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 6.24 / 42
p0 1.717 ± 0.7041
pull
Entries 43
Mean −23.76
Std Dev 43.9

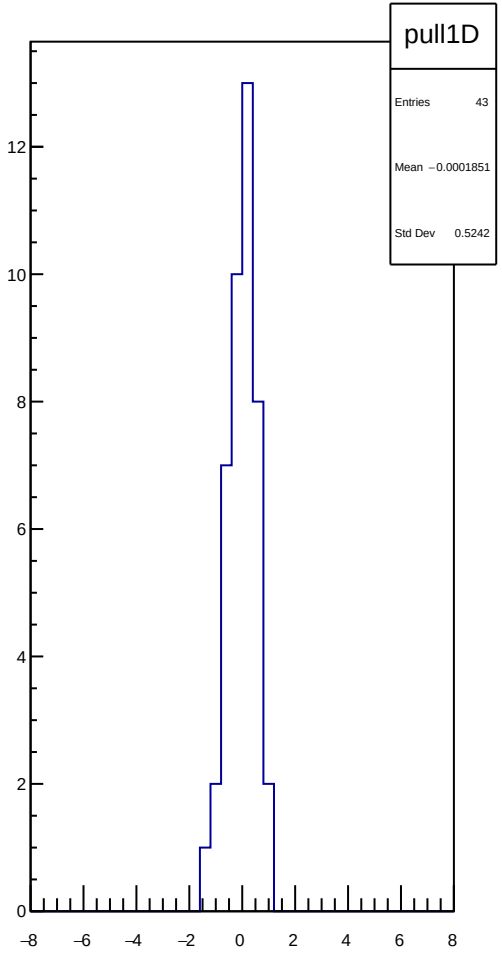

pull1D
Entries 43
Mean −0.01199
Std Dev 0.3807

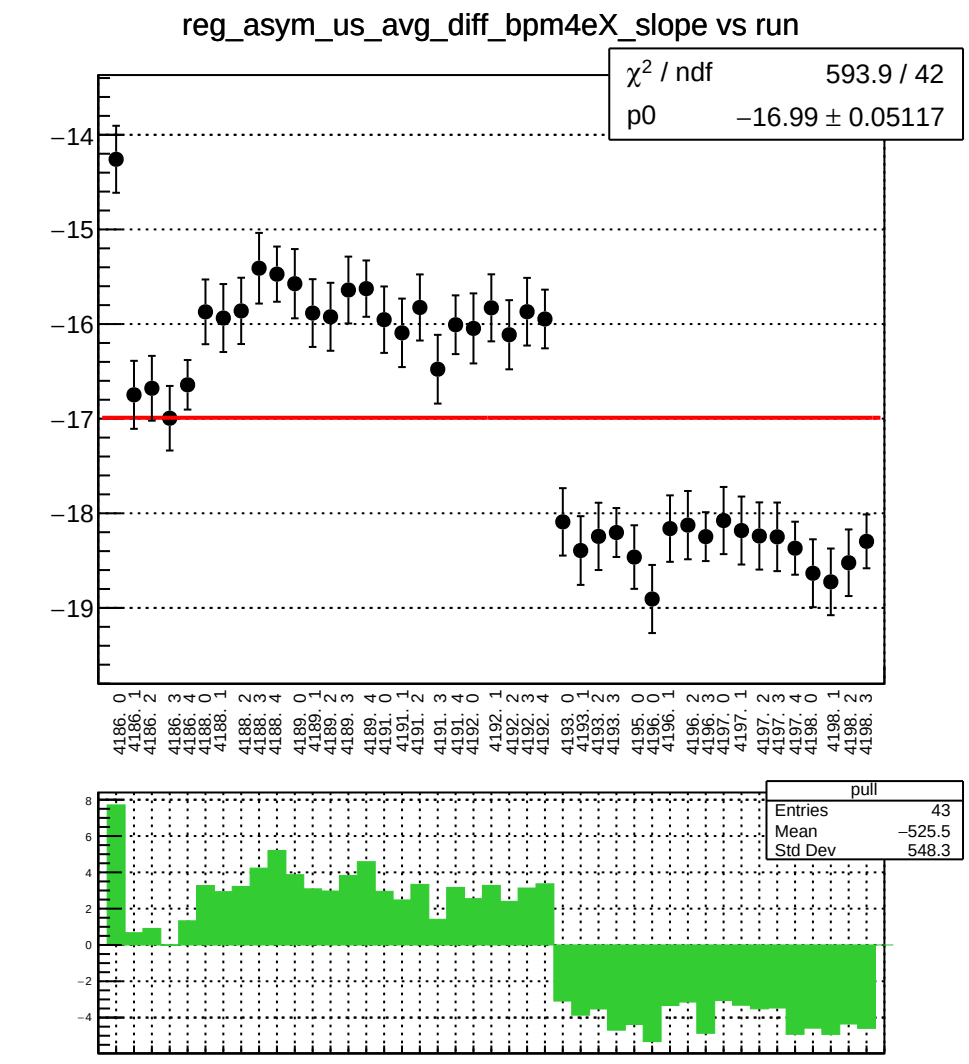

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 7.506 / 42
p0 −50.56 ± 0.1357
−49
−49.5
−50
−50.5
−51
−51.5
−52
−52.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 79.57
Std Dev 63.41
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.01093
Std Dev 0.4177
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

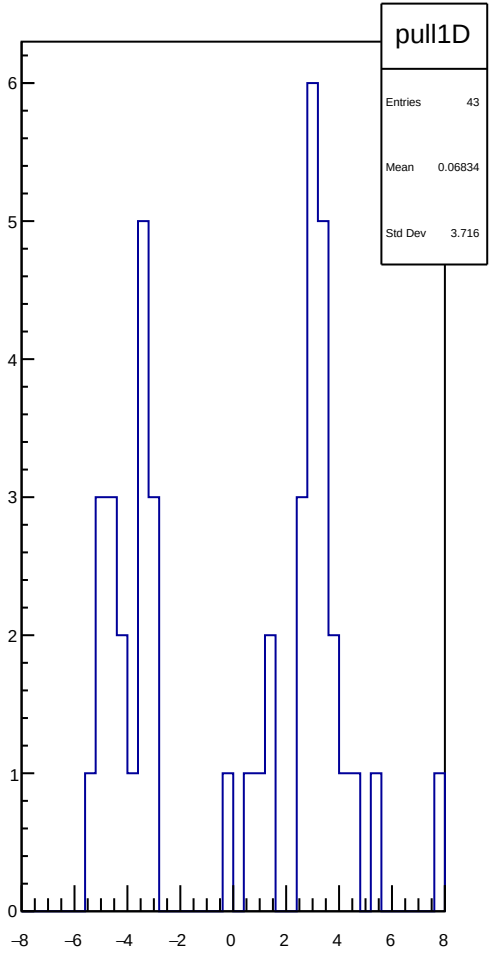

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 62.91 / 42
p0 −8.563 ± 0.3048
pull
Entries 43
Mean −275.5
Std Dev 298.4

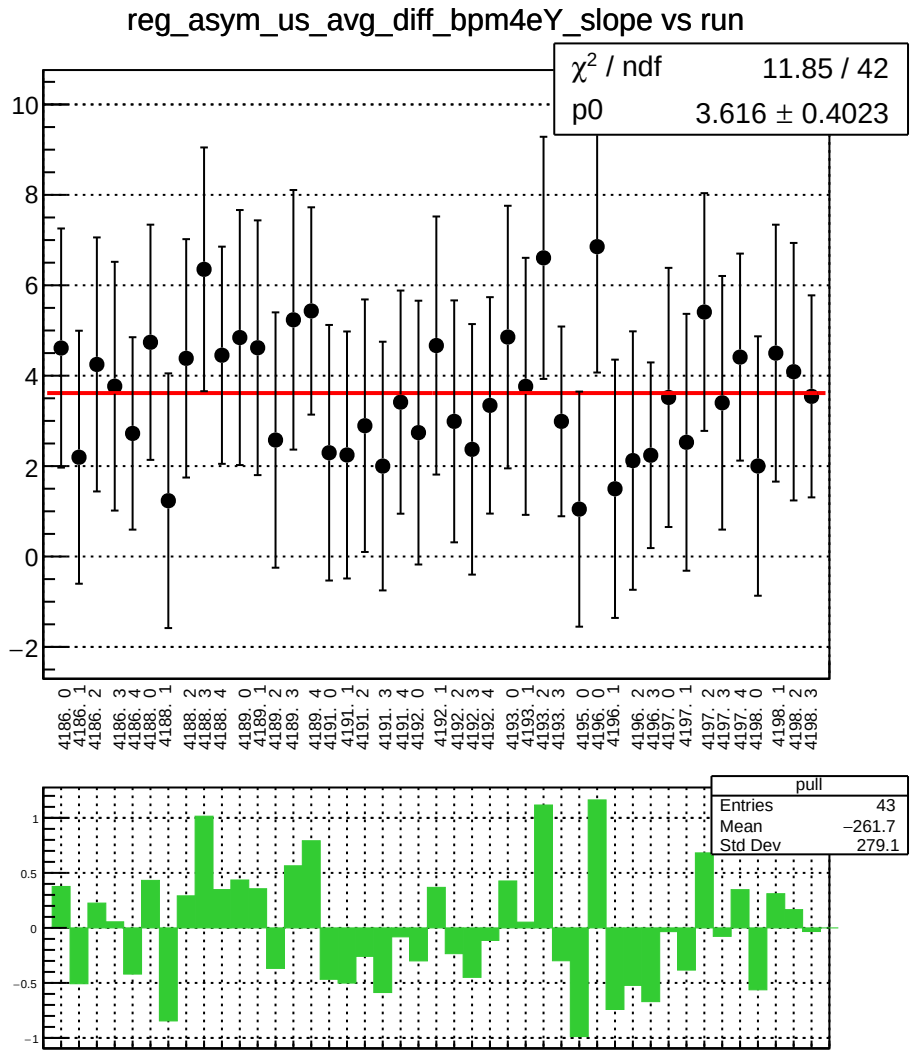

pull1D
Entries 43
Mean −0.03767
Std Dev 1.209

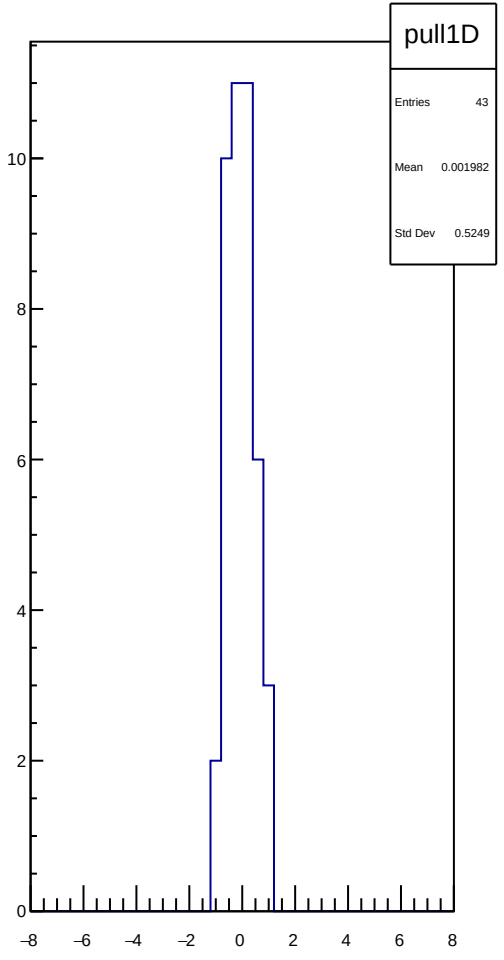

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.82 / 42
p0 5.263 ± 0.2426
pull
Entries 43
Mean −5806
Std Dev 5826

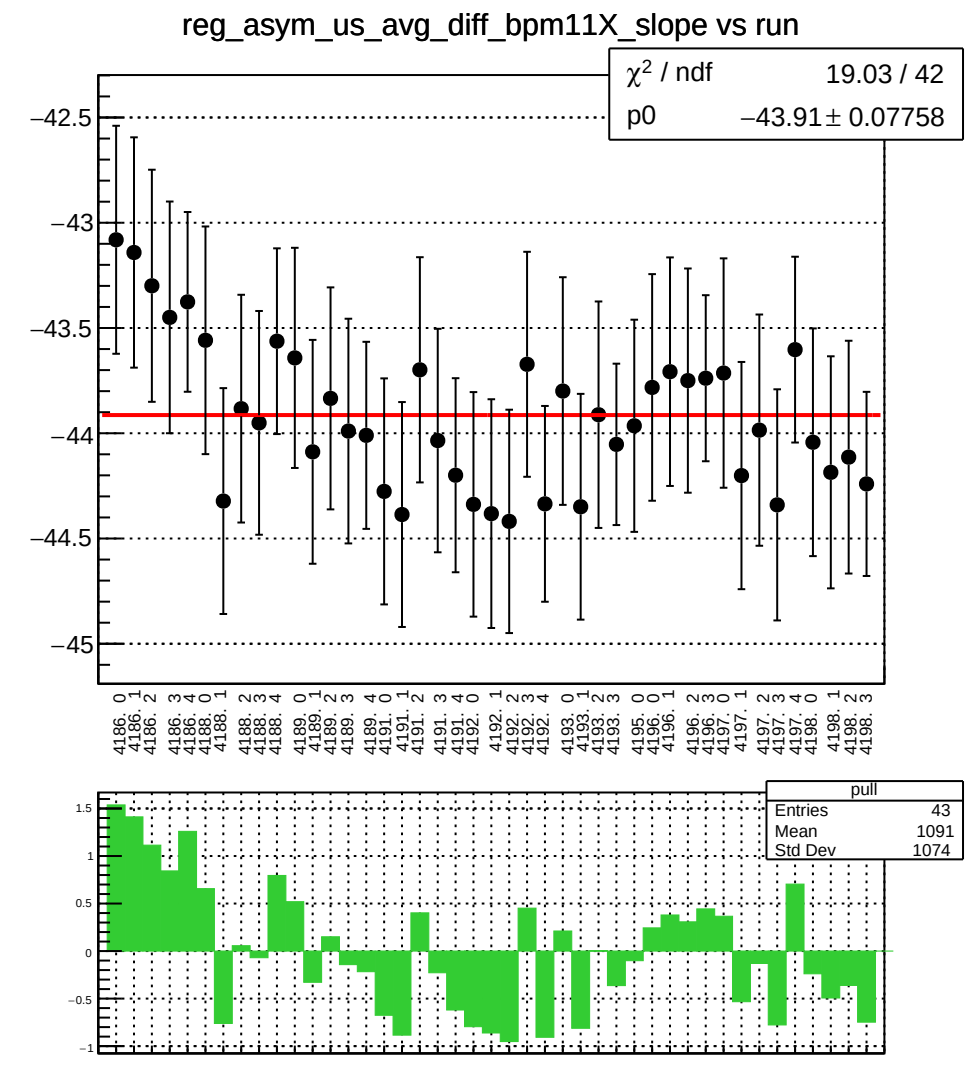

pull1D
Entries 43
Mean −0.0001851
Std Dev 0.5242

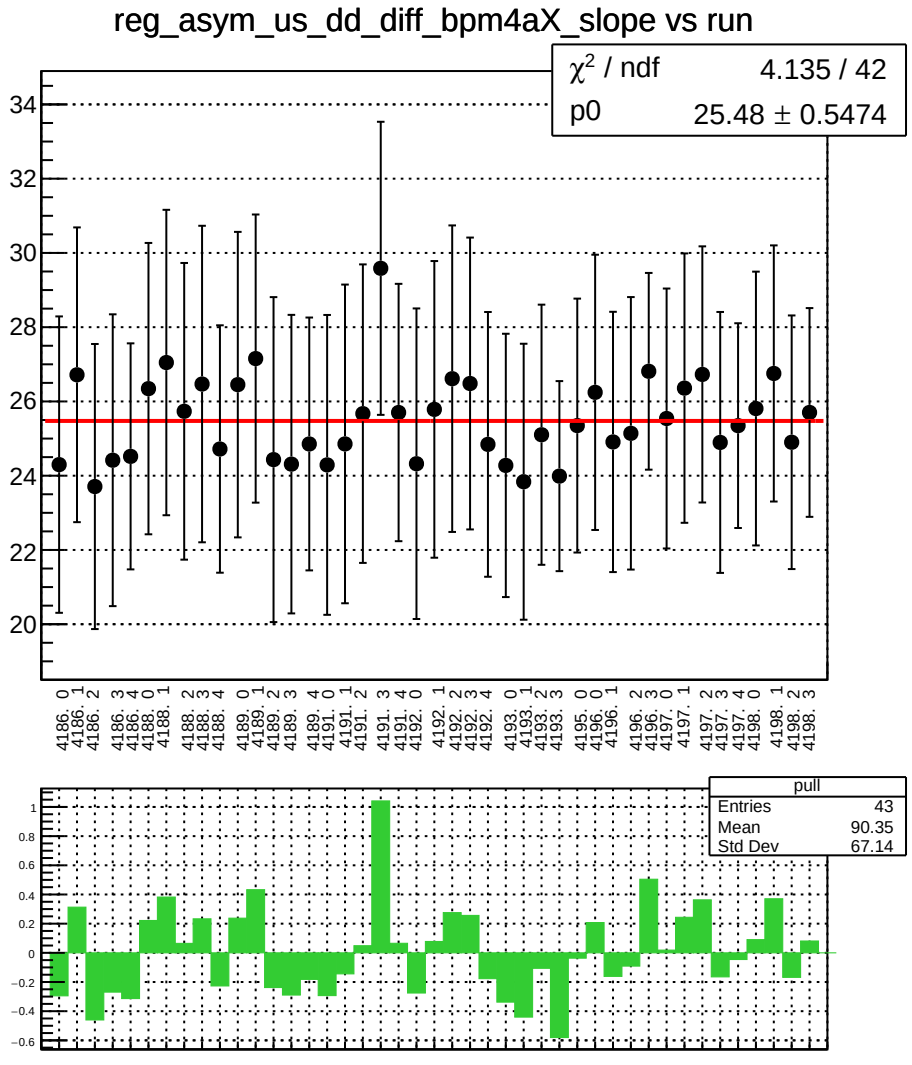

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 593.9 / 42
p0 −16.99 ± 0.05117
pull
Entries 43
Mean −525.5
Std Dev 548.3

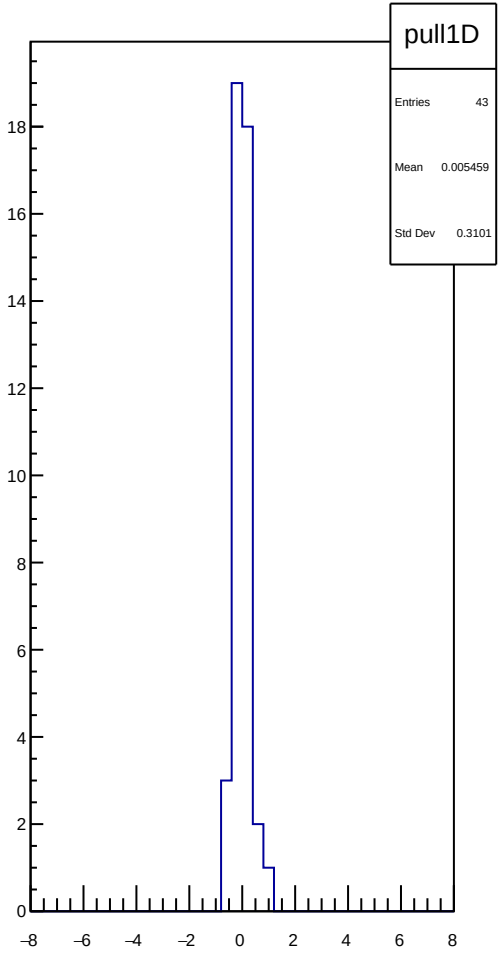

pull1D
Entries 43
Mean 0.06834
Std Dev 3.716

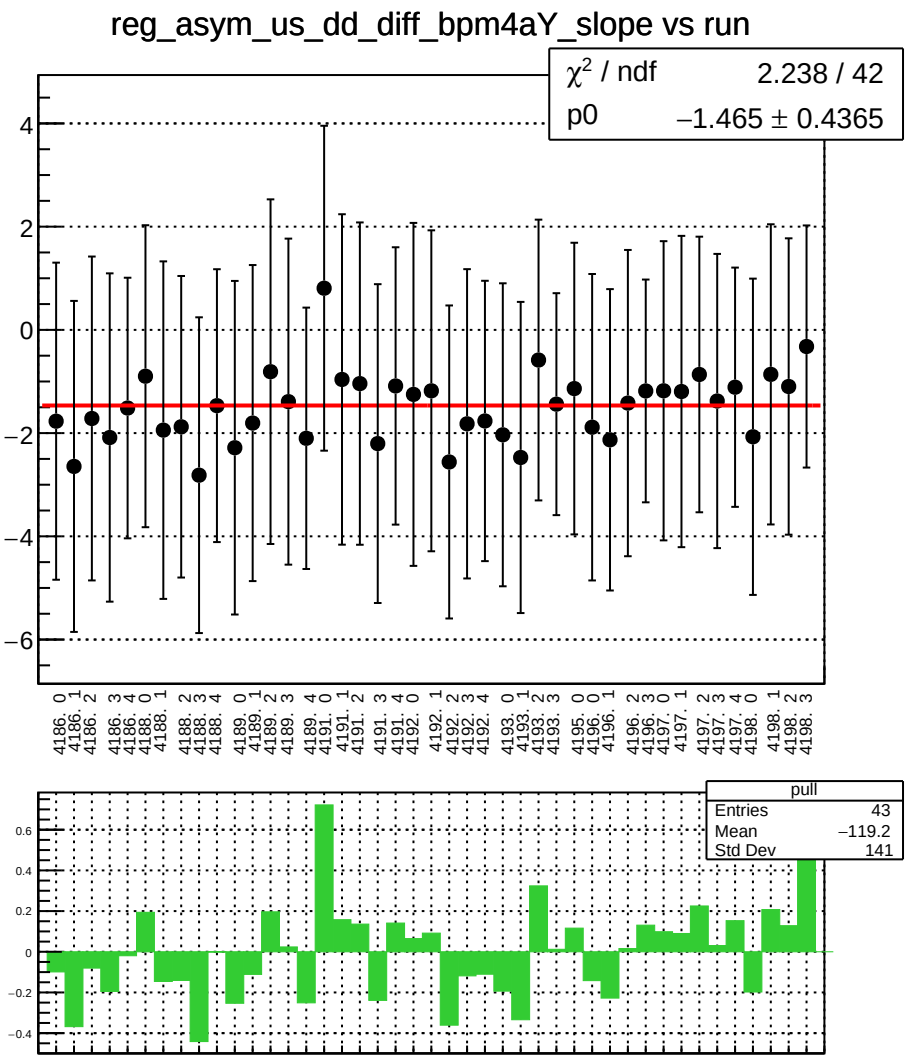

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.85 / 42
p0 3.616 ± 0.4023
pull
Entries 43
Mean −261.7
Std Dev 279.1

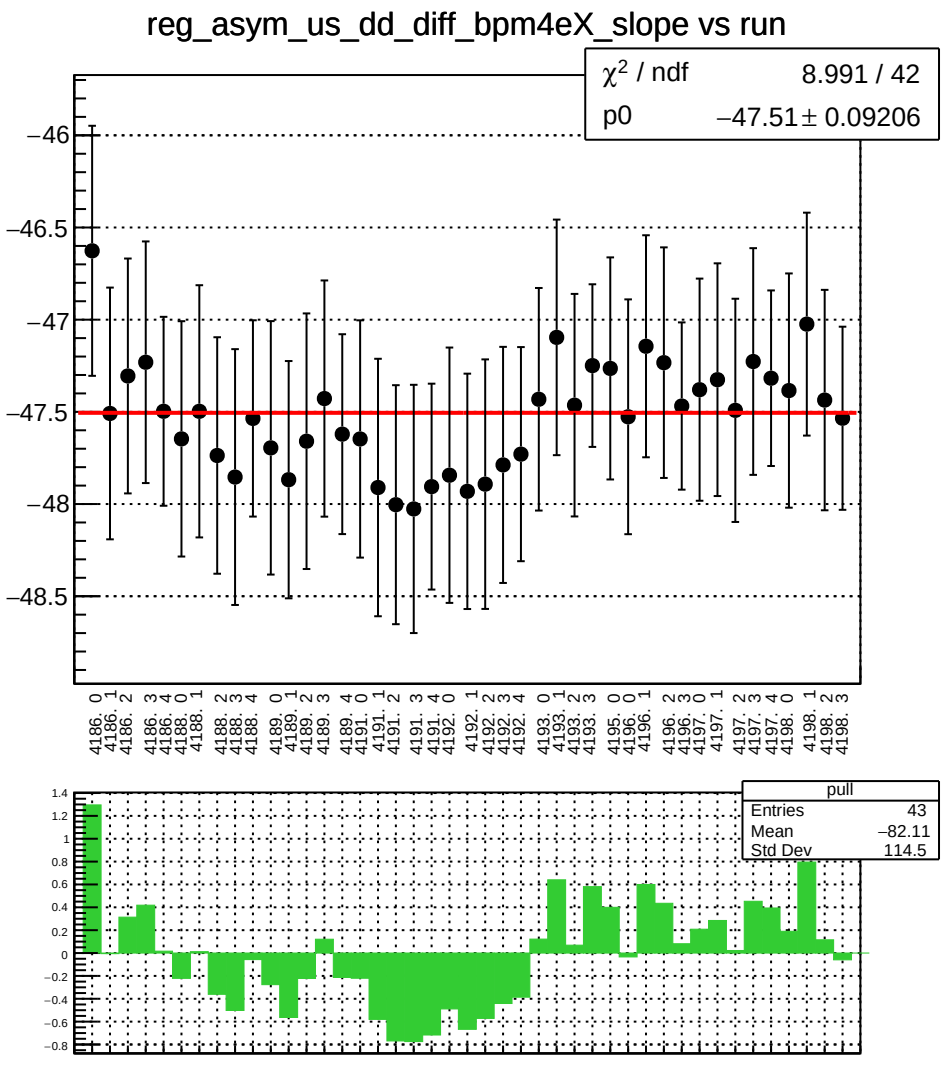

pull1D
Entries 43
Mean 0.001982
Std Dev 0.5249

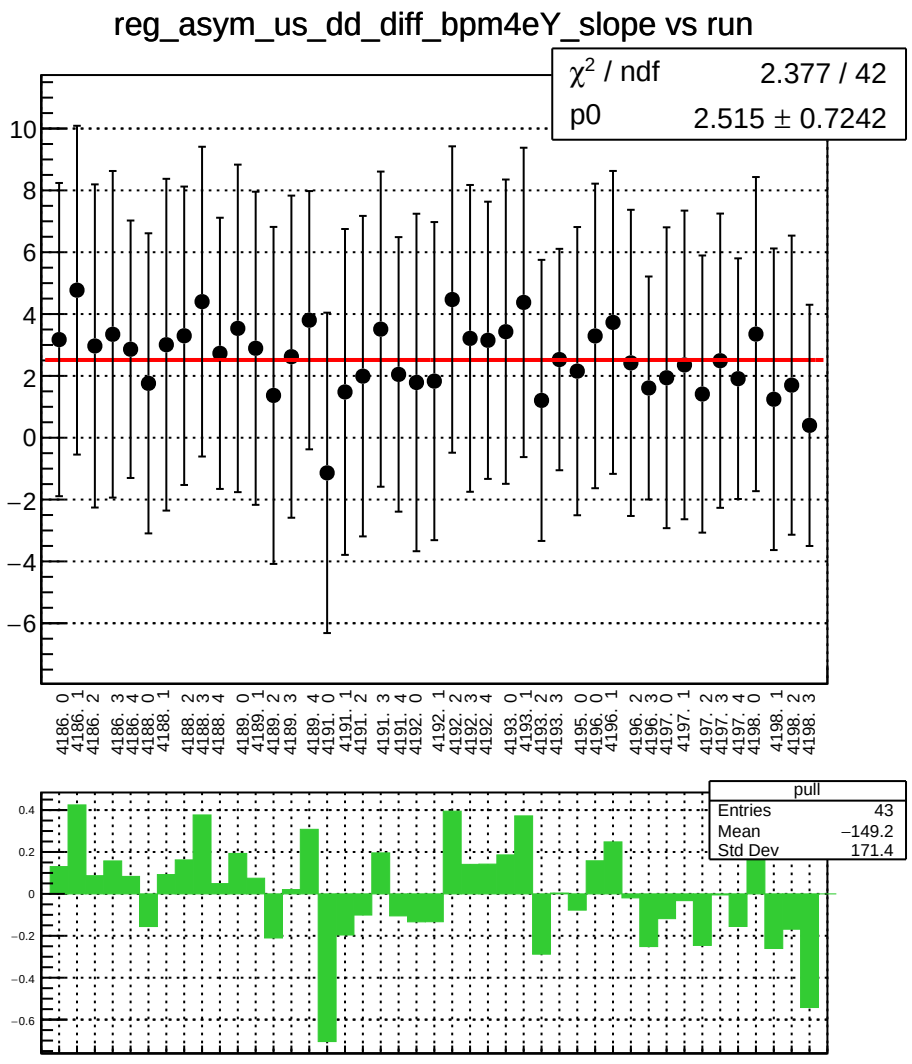

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 19.03 / 42
p0 −43.91 ± 0.07758
−42.5
−43
−43.5
−44
−44.5
−45
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 1091
Std Dev 1074
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.003365
Std Dev 0.6652
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

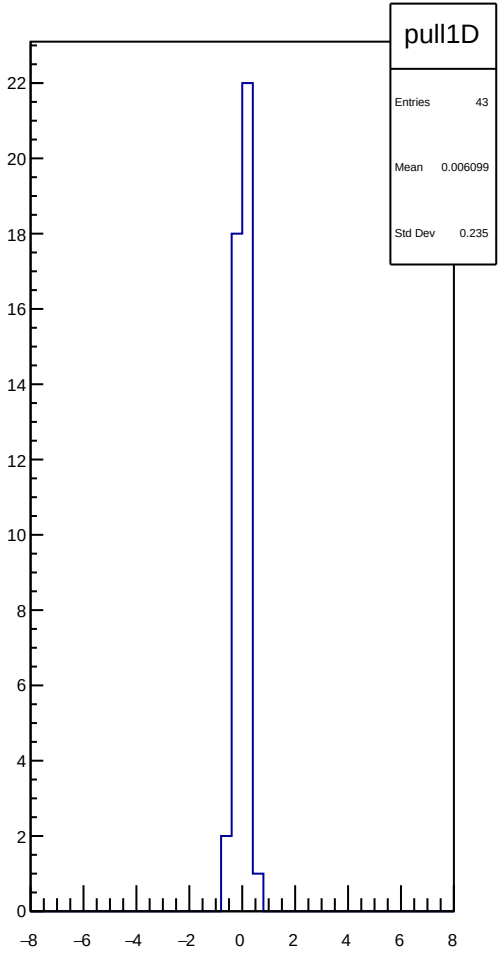

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.135 / 42
p0 25.48 ± 0.5474
pull
Entries 43
Mean 90.35
Std Dev 67.14

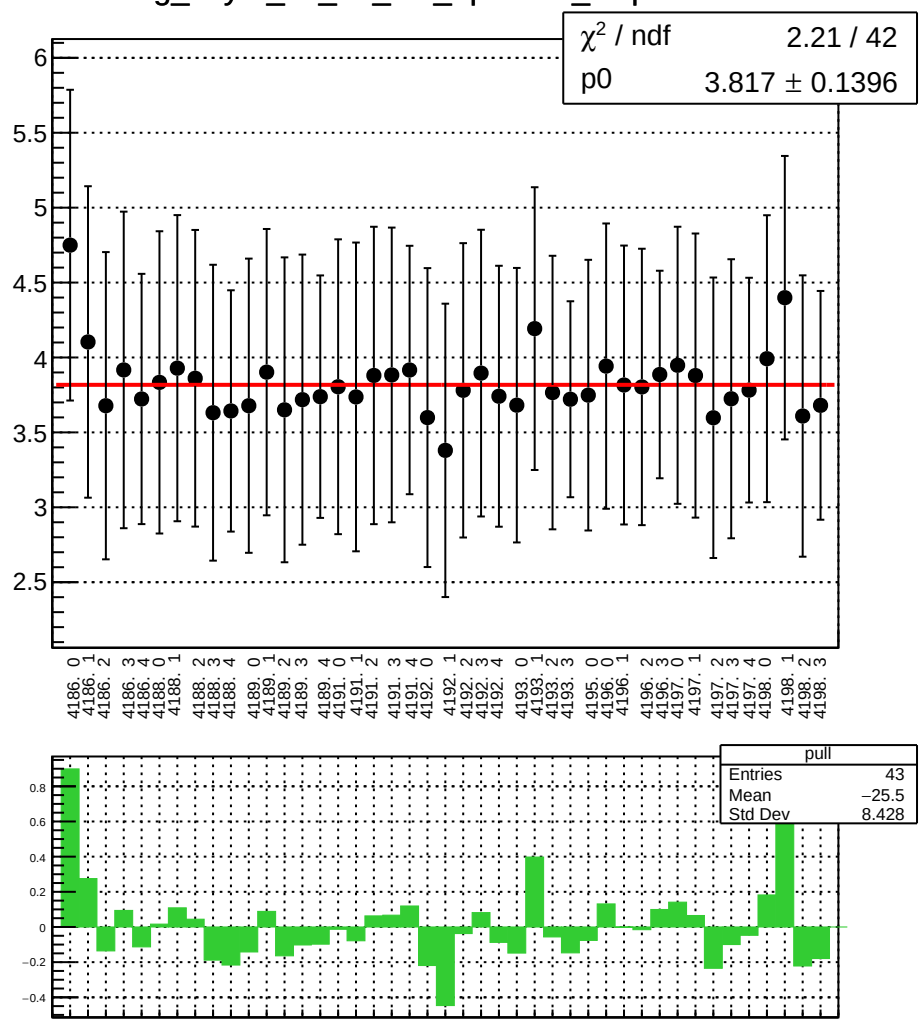

pull1D
Entries 43
Mean 0.005459
Std Dev 0.3101

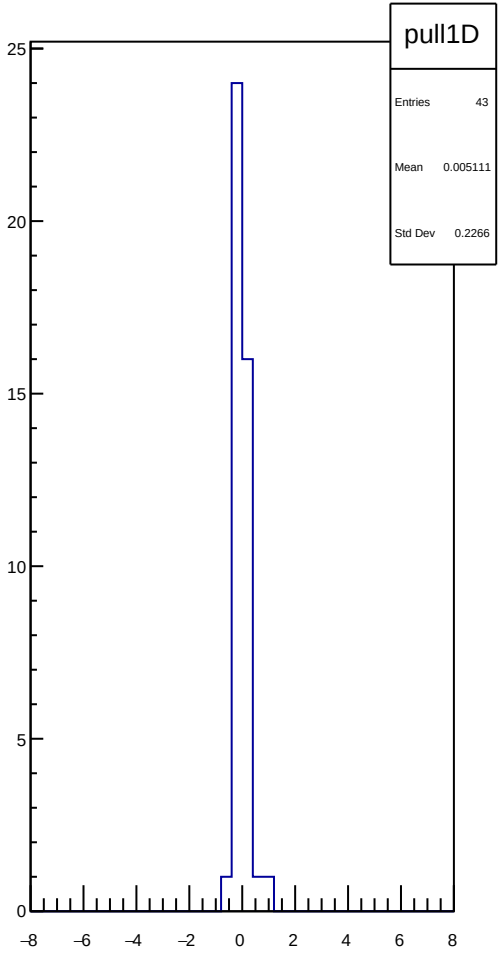

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.238 / 42
p0 −1.465 ± 0.4365
4
2
0
−2
−4
−6
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −119.2
Std Dev 141
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.006607
Std Dev 0.2281
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

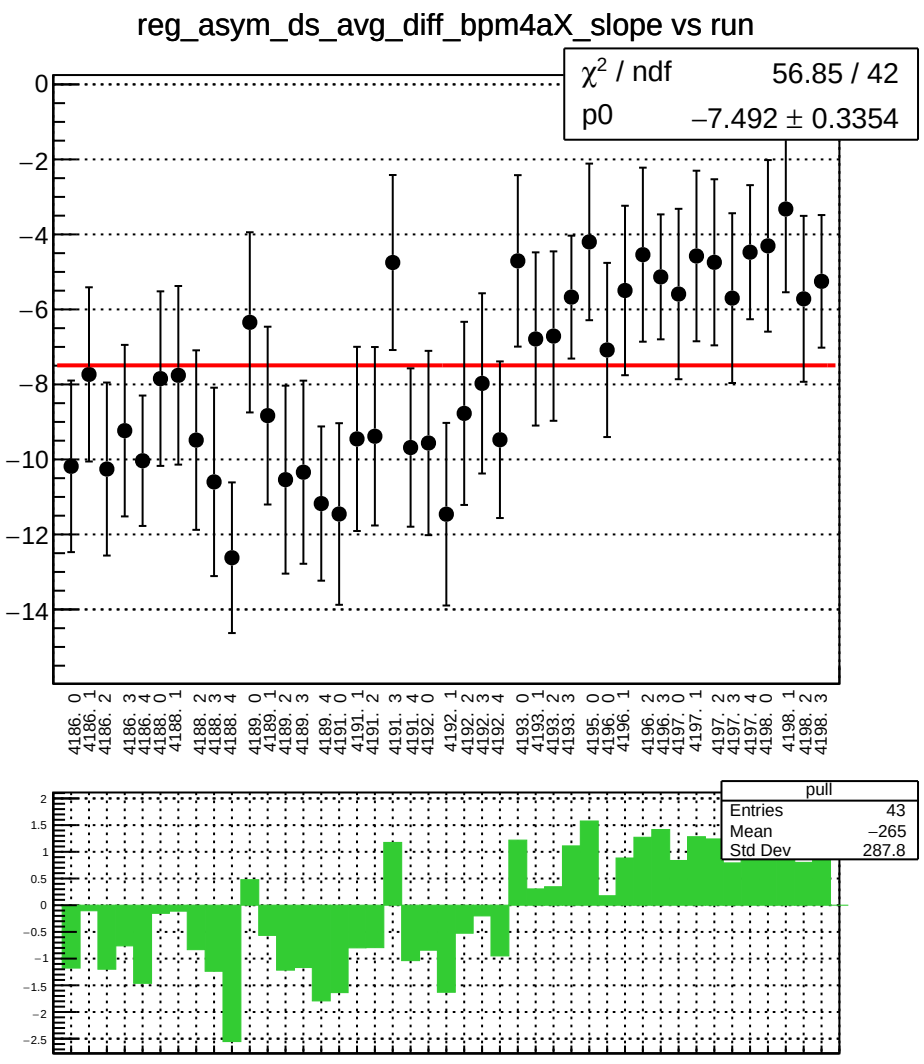

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.991 / 42
p0 −47.51 ± 0.09206
−46
−46.5
−47
−47.5
−48
−48.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −82.11
Std Dev 114.5
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.01308
Std Dev 0.4571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

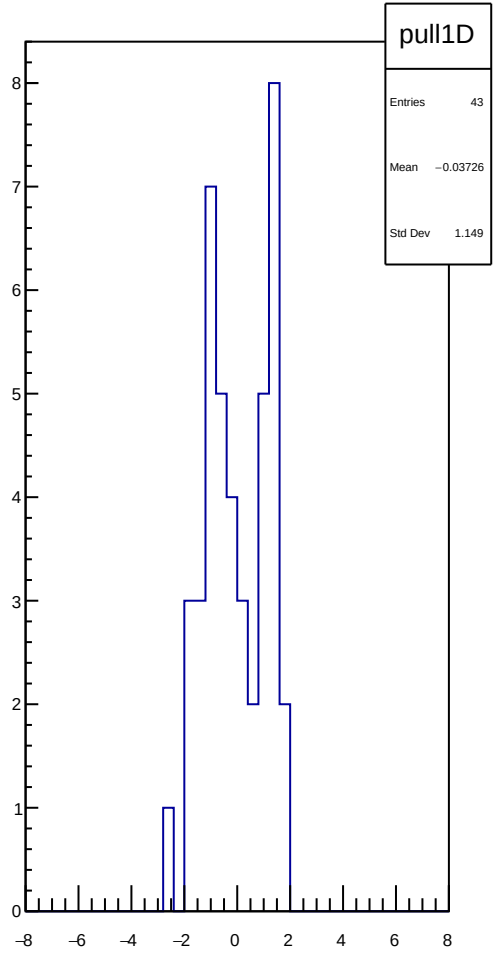

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.377 / 42
p0 2.515 ± 0.7242
pull
Entries 43
Mean −149.2
Std Dev 171.4

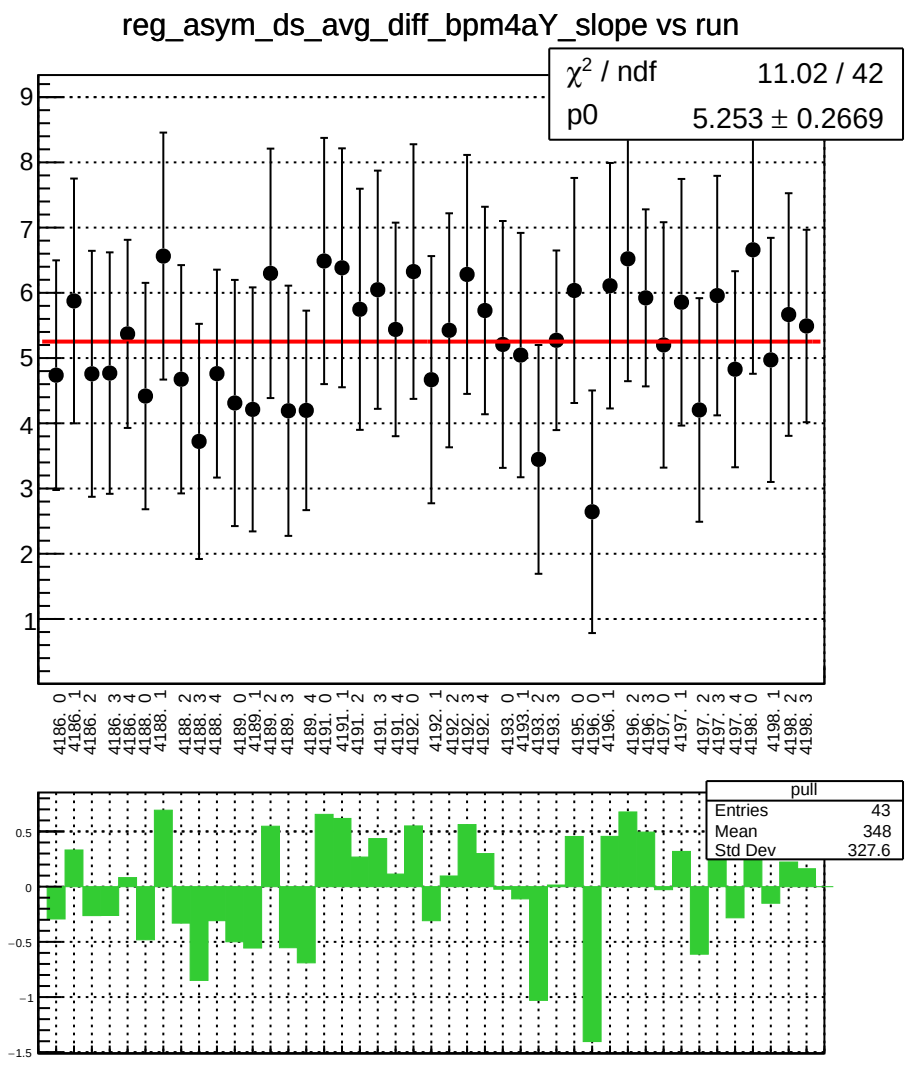

pull1D
Entries 43
Mean 0.006099
Std Dev 0.235

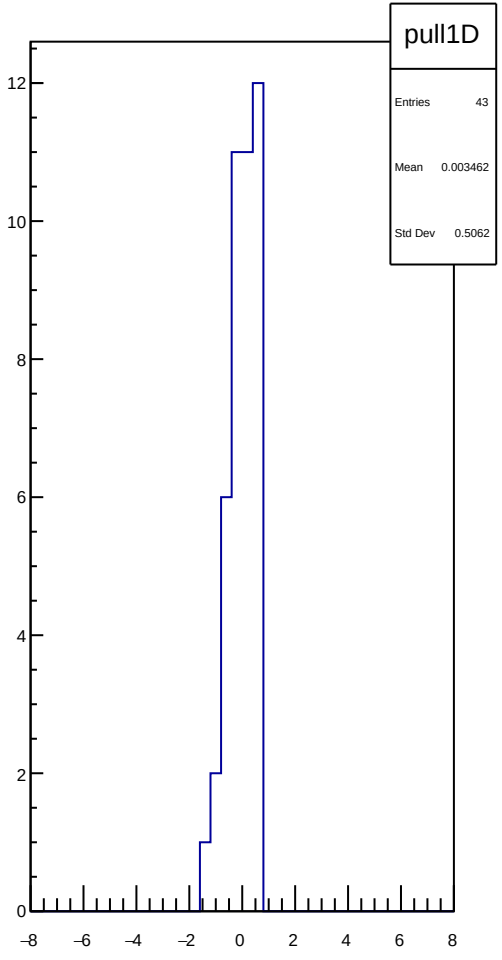

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 2.21 / 42
p0 3.817 ± 0.1396
pull
Entries 43
Mean −25.5
Std Dev 8.428

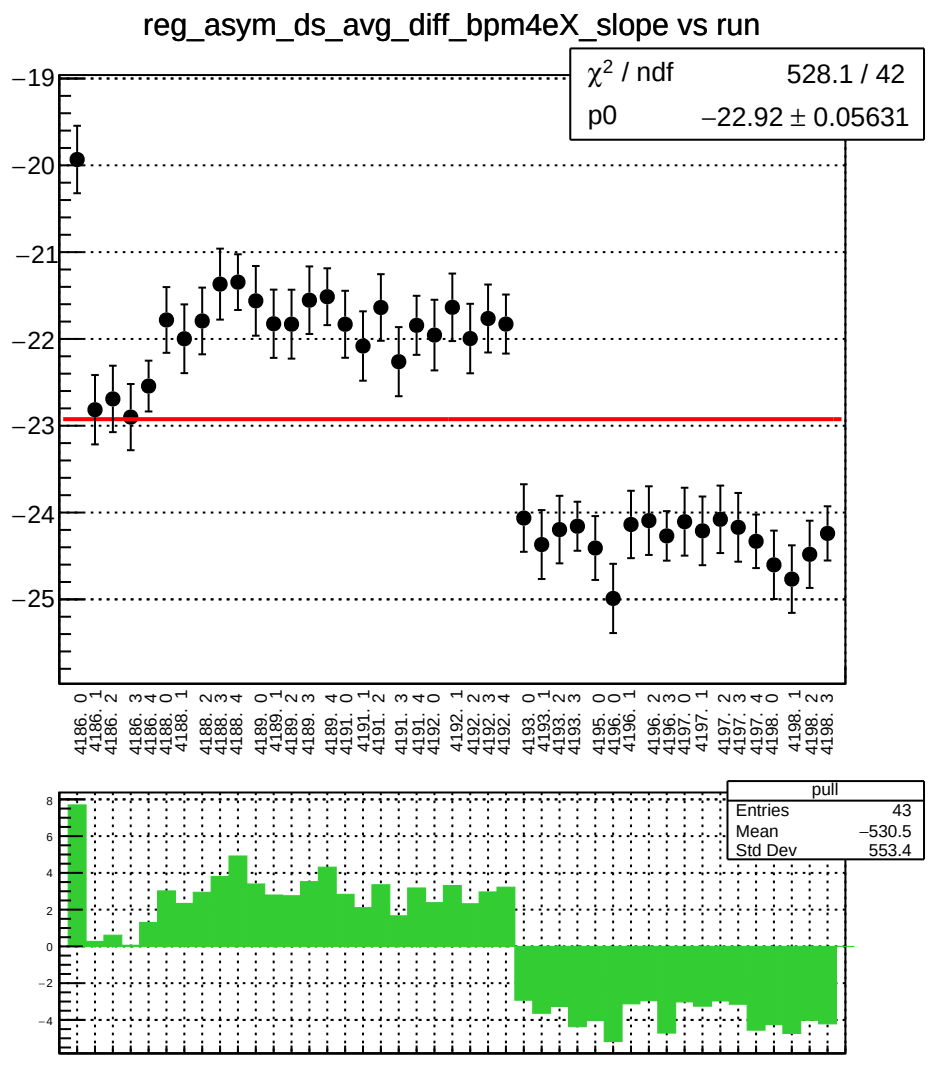

pull1D
Entries 43
Mean 0.005111
Std Dev 0.2266

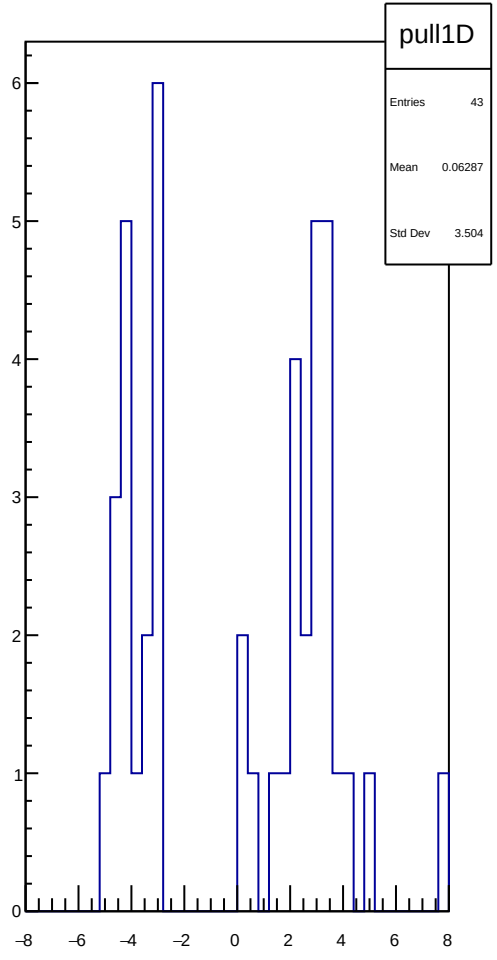

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.85 / 42
p0 −7.492 ± 0.3354
pull
Entries 43
Mean −265
Std Dev 287.8

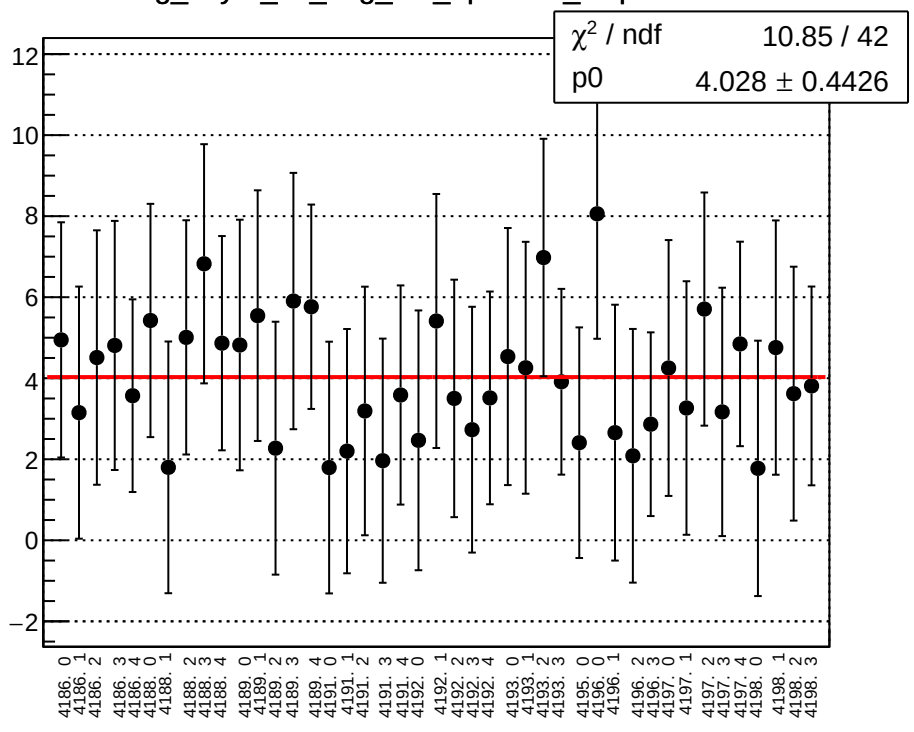

pull1D
Entries 43
Mean −0.03726
Std Dev 1.149

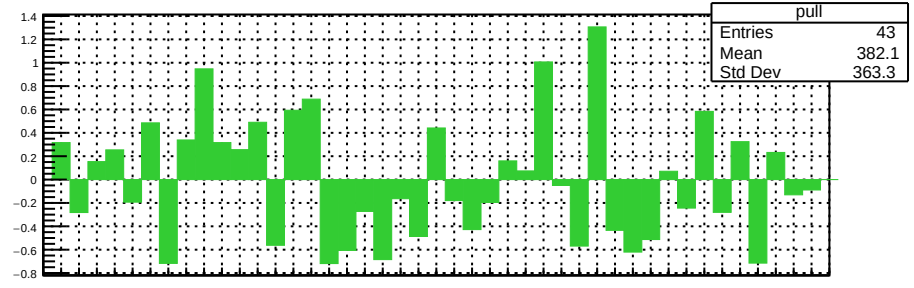

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 42
p0 5.253 ± 0.2669
pull
Entries 43
Mean 348
Std Dev 327.6

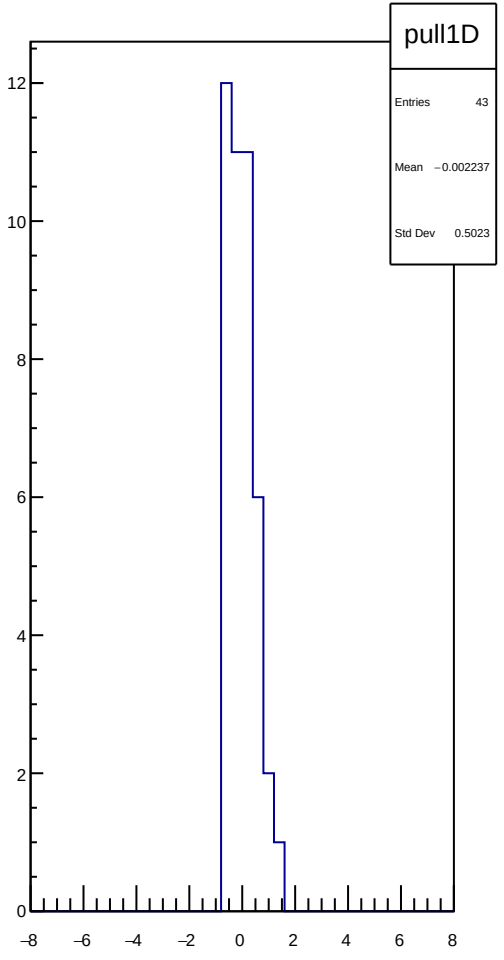

pull1D
Entries 43
Mean 0.003462
Std Dev 0.5062

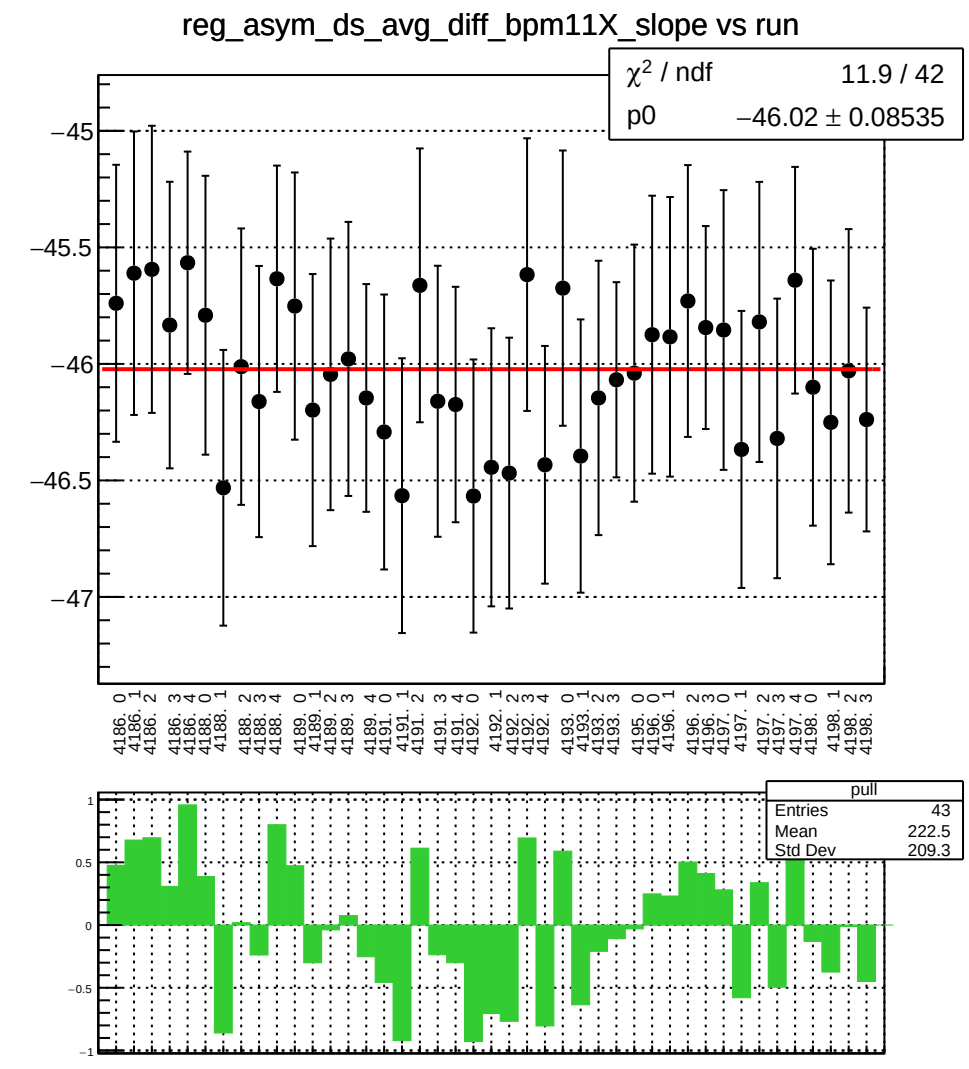

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 528.1 / 42
p0 −22.92 ± 0.05631
−19
−20
−21
−22
−23
−24
−25
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −530.5
Std Dev 553.4
8
6
4
2
0
−2
−4

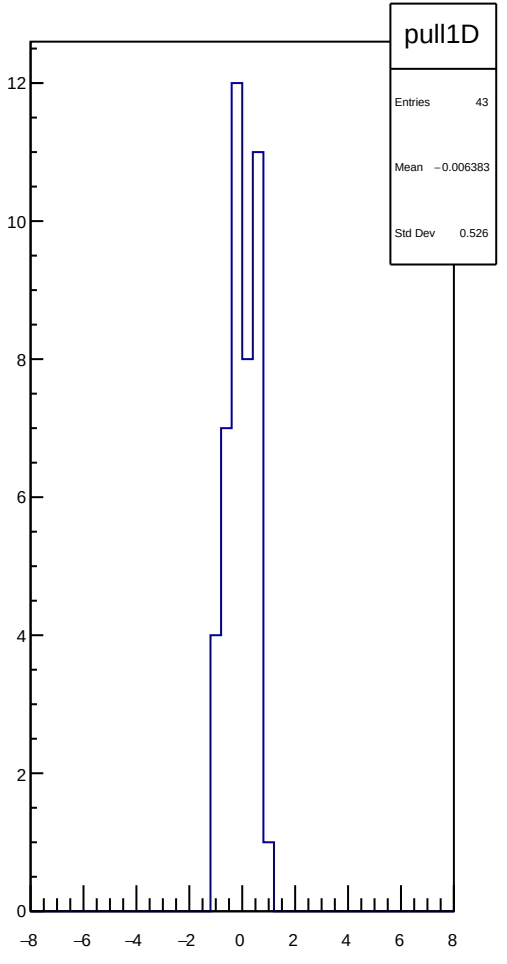

pull1D
Entries 43
Mean 0.06287
Std Dev 3.504
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

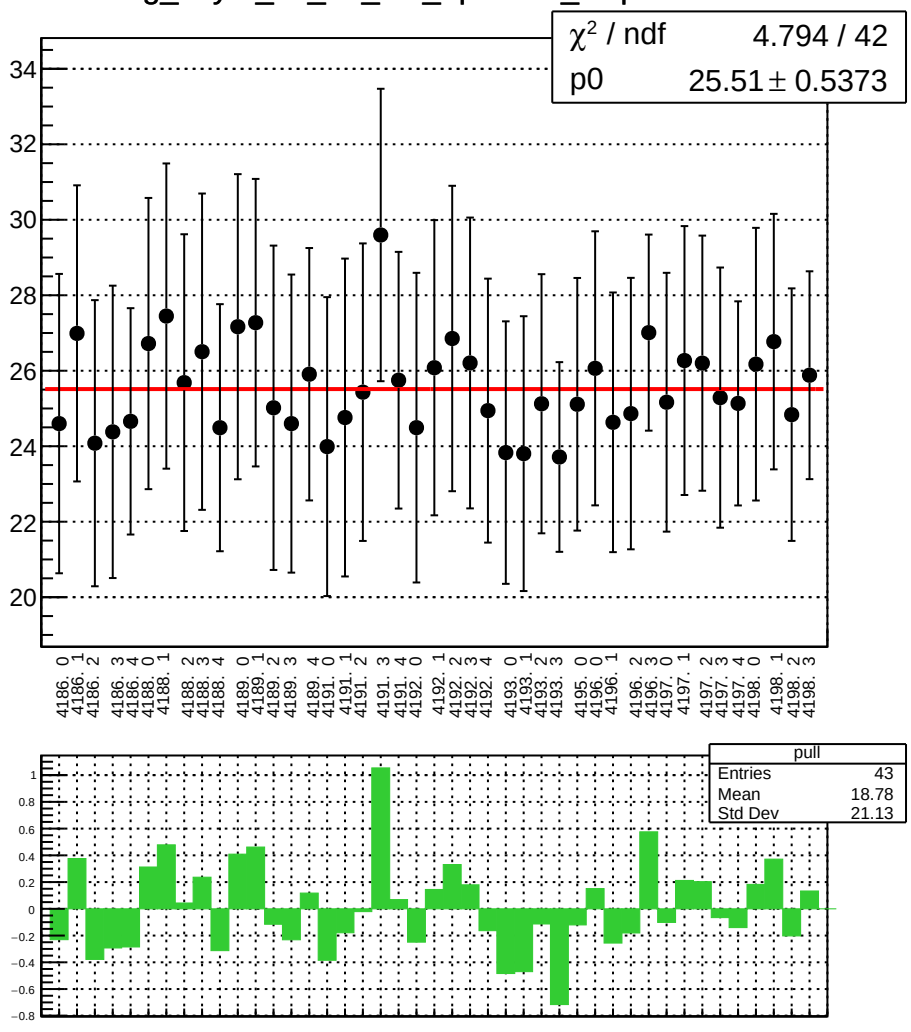

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.85 / 42
p0 4.028 ± 0.4426
12
10
8
6
4
2
0
−2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3

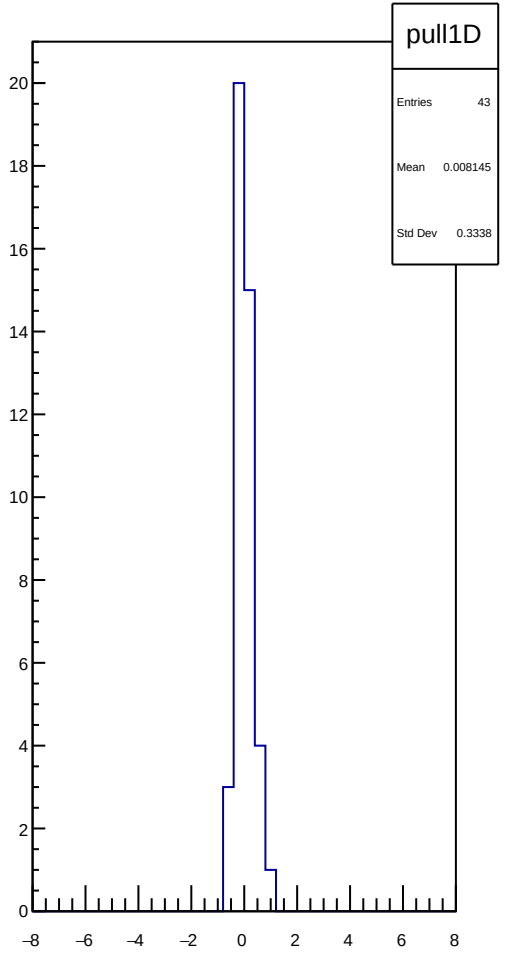

pull
Entries 43
Mean 382.1
Std Dev 363.3
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

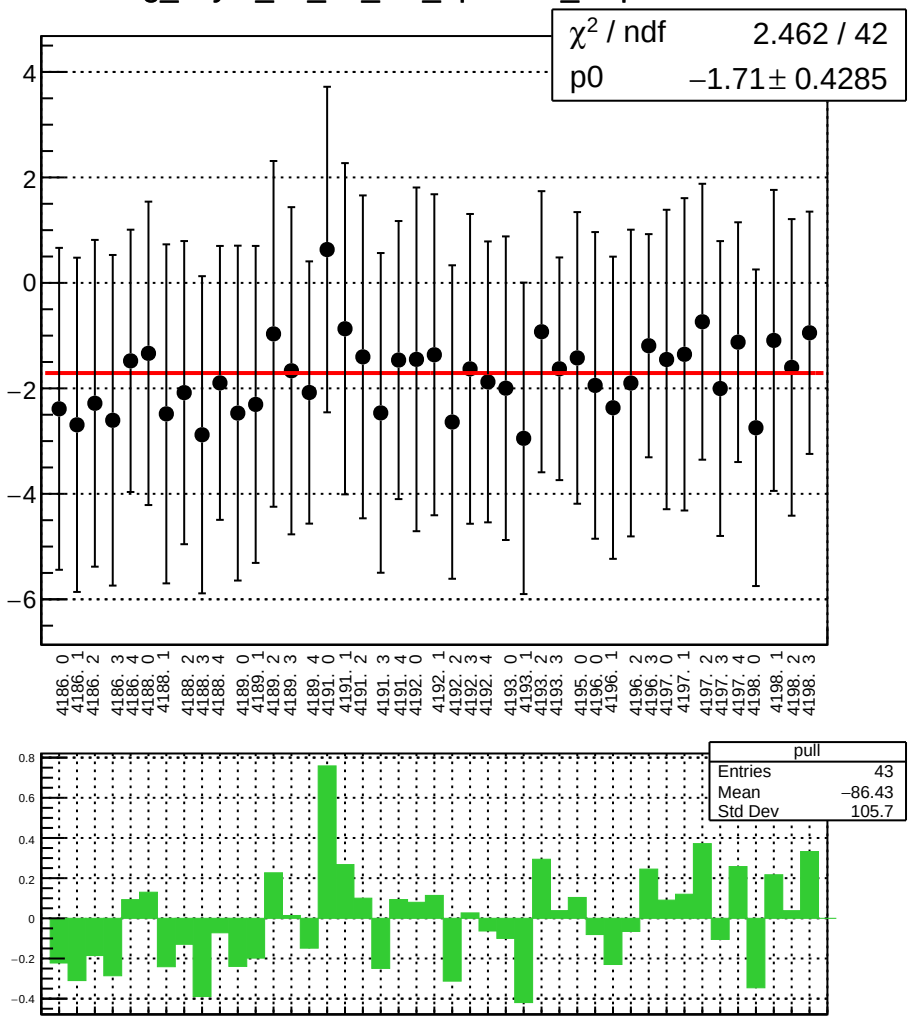

pull1D
Entries 43
Mean −0.002237
Std Dev 0.5023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

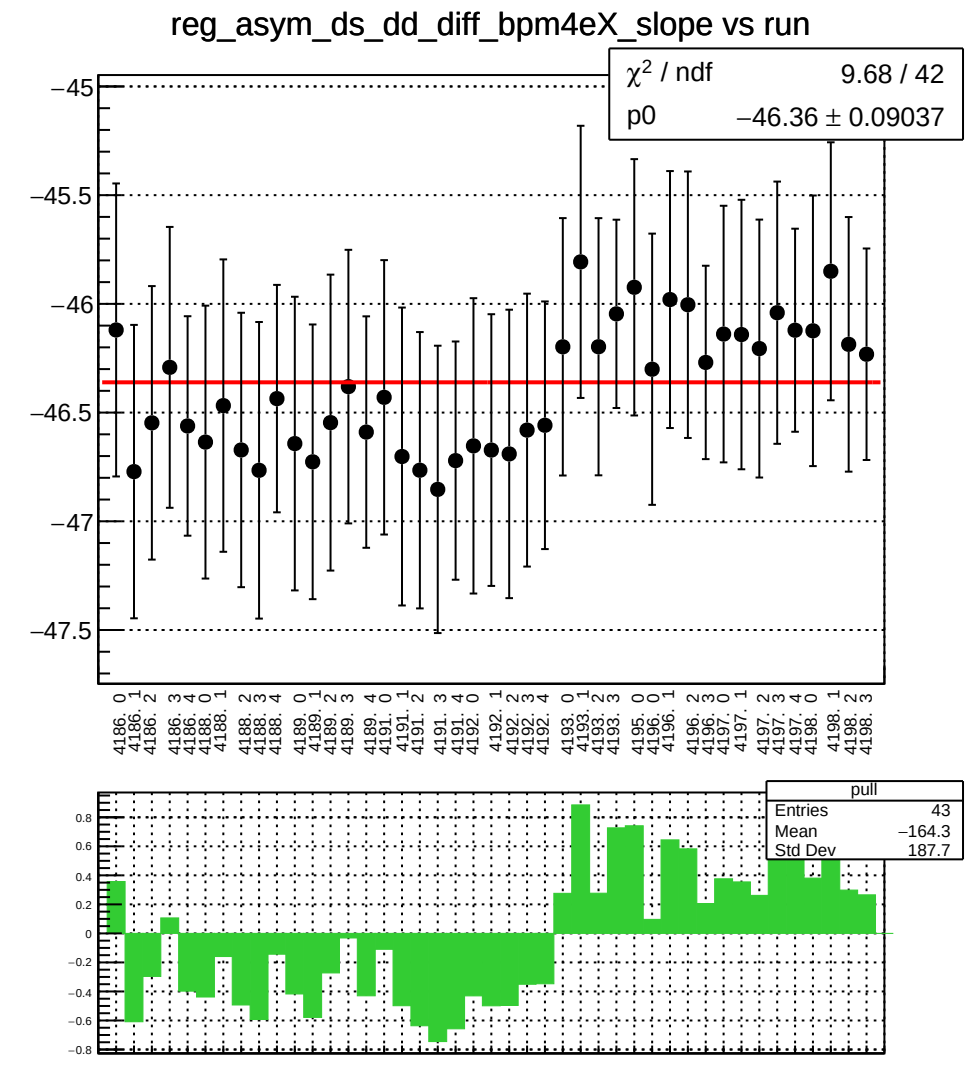

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 11.9 / 42
p0 −46.02 ± 0.08535
−45
−45.5
−46
−46.5
−47
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 222.5
Std Dev 209.3
1
0.5
0
−0.5
−1

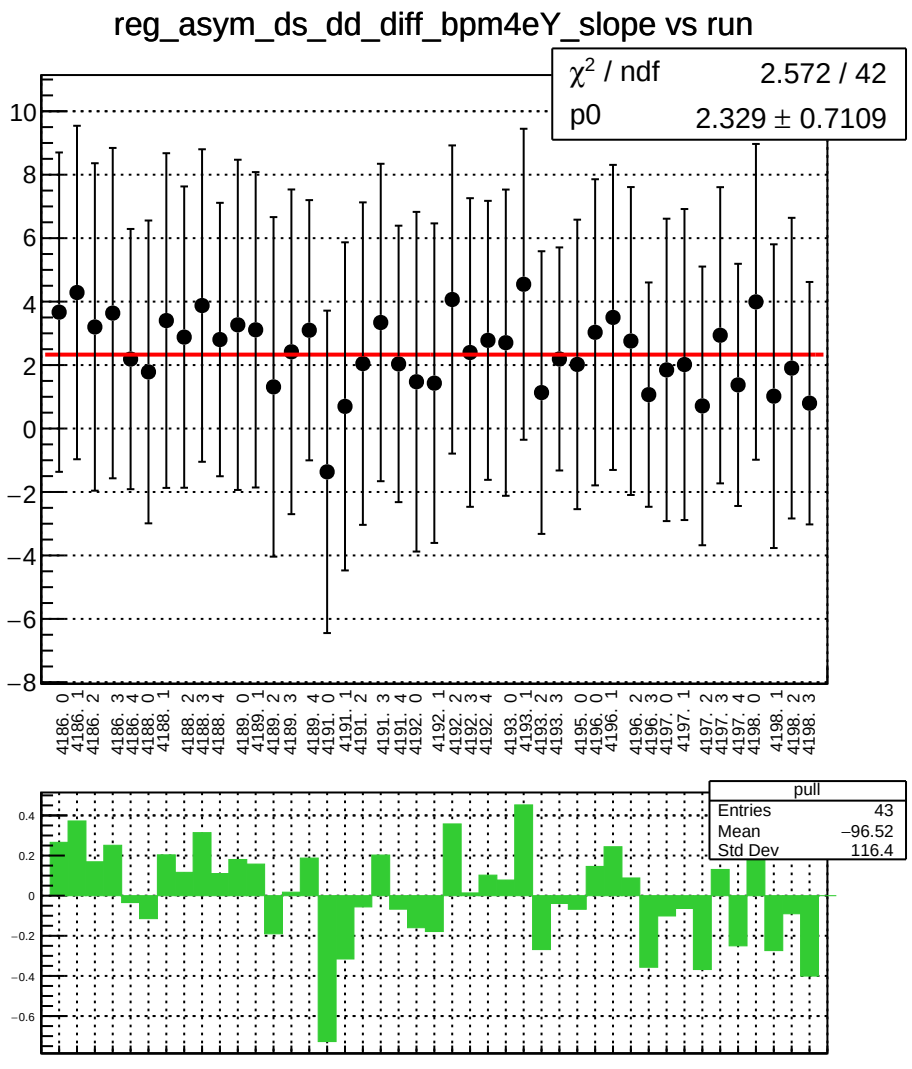

pull1D
Entries 43
Mean −0.006383
Std Dev 0.526
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

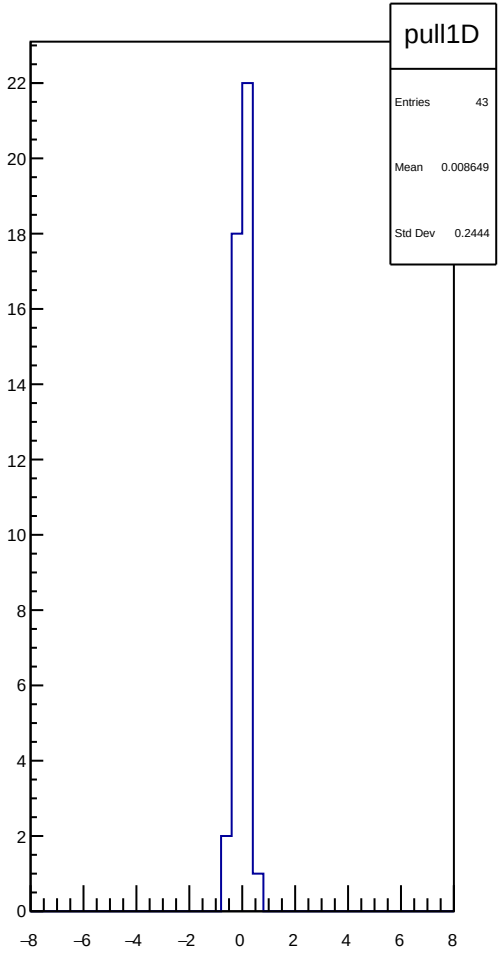

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.794 / 42
p0 25.51 ± 0.5373
pull
Entries 43
Mean 18.78
Std Dev 21.13

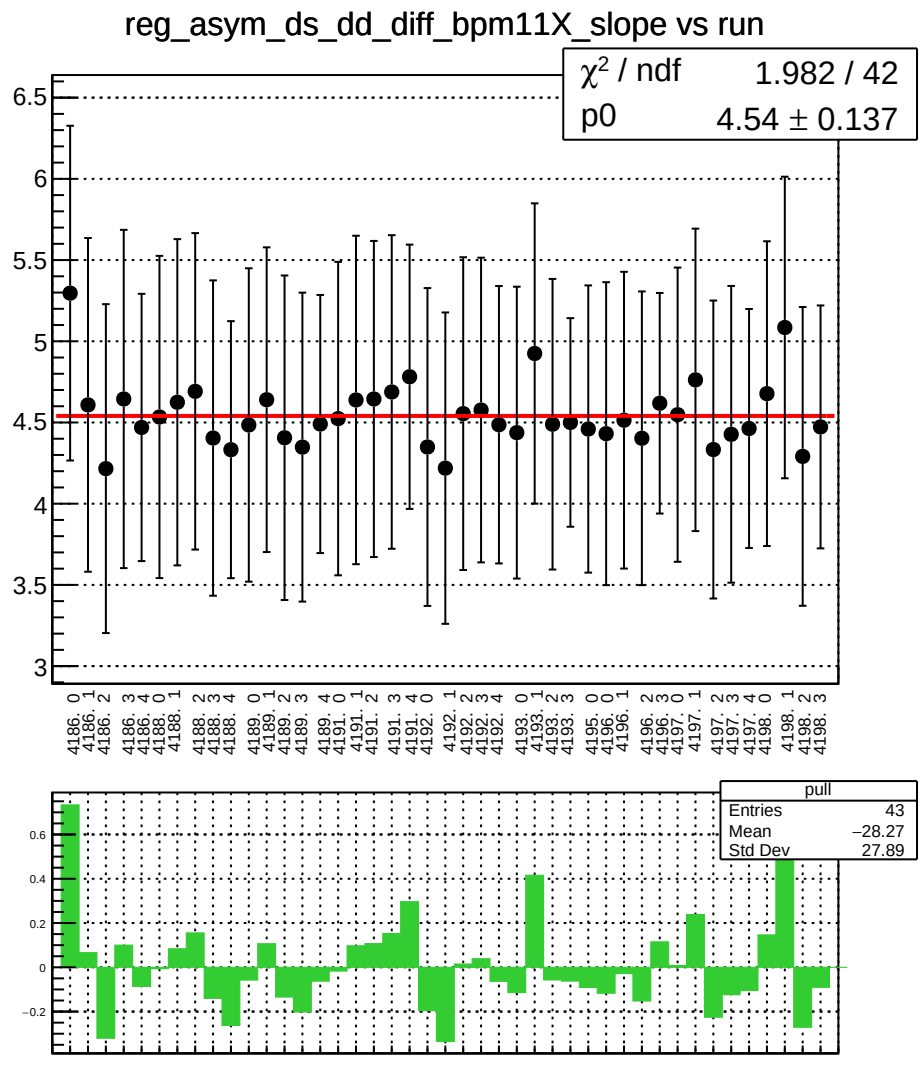

pull1D
Entries 43
Mean 0.008145
Std Dev 0.3338

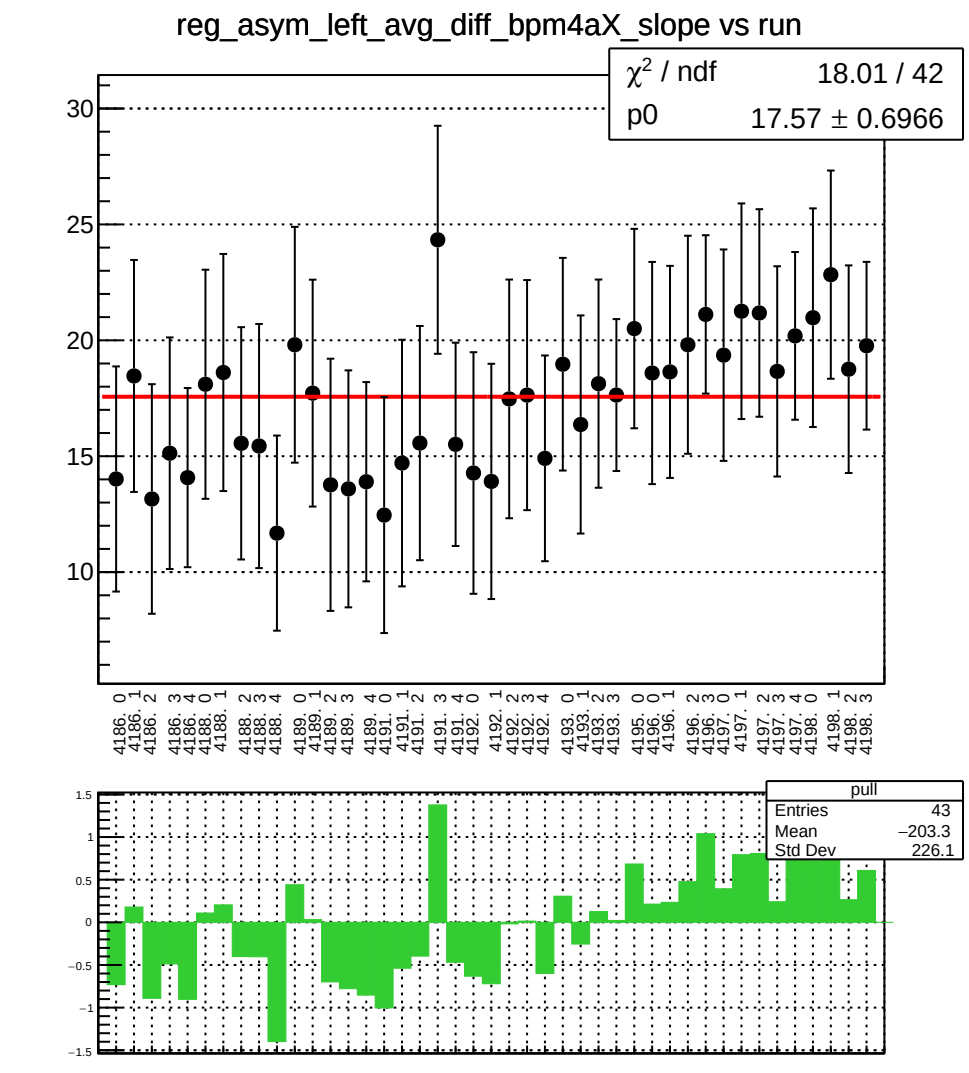

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.462 / 42
p0 −1.71 ± 0.4285
4
2
0
−2
−4
−6
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −86.43
Std Dev 105.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.008788
Std Dev 0.2391
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

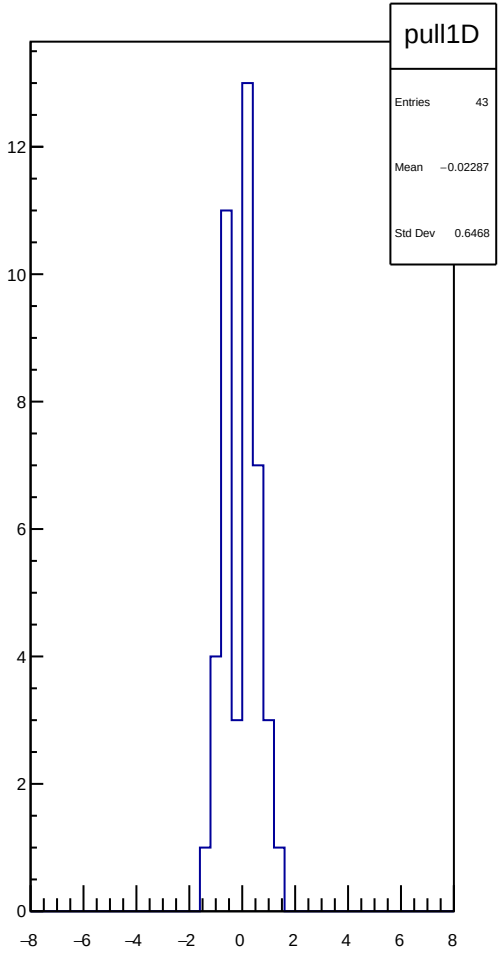

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.68 / 42
p0 −46.36 ± 0.09037
−45
−45.5
−46
−46.5
−47
−47.5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −164.3
Std Dev 187.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.02059
Std Dev 0.474
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

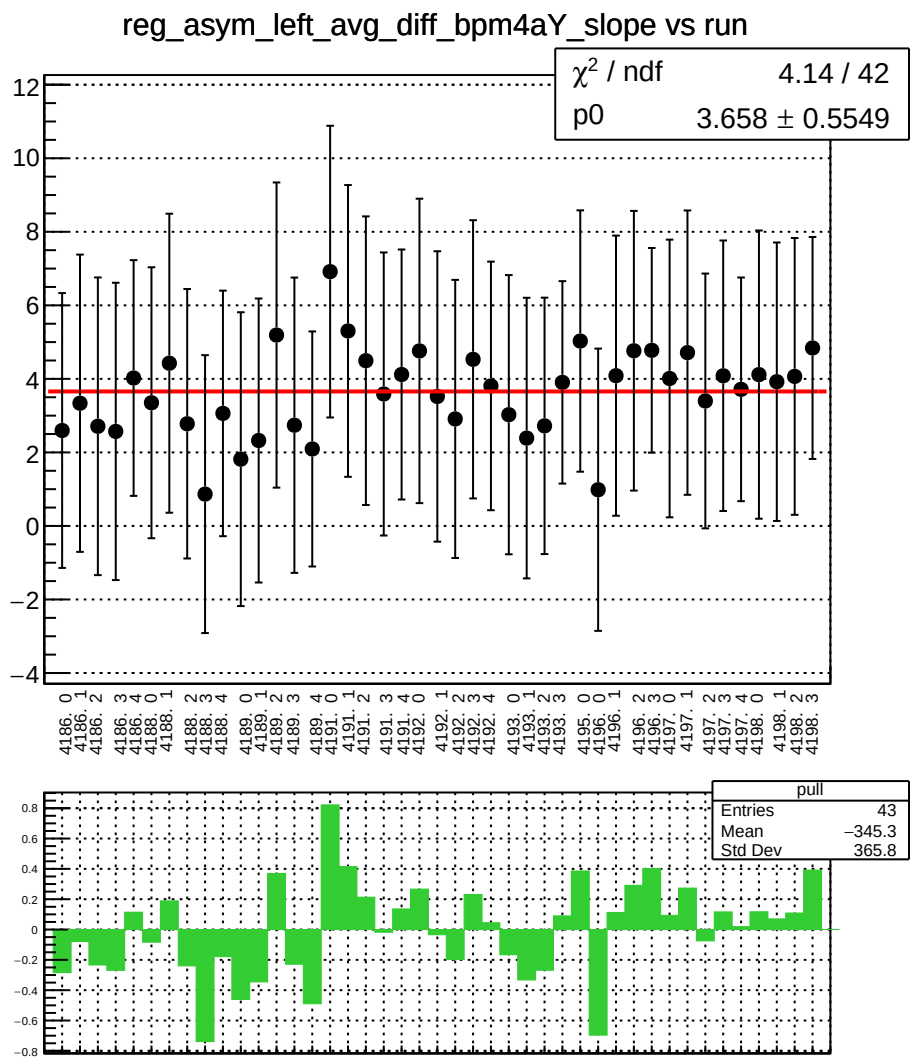

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.572 / 42
p0 2.329 ± 0.7109
pull
Entries 43
Mean −96.52
Std Dev 116.4

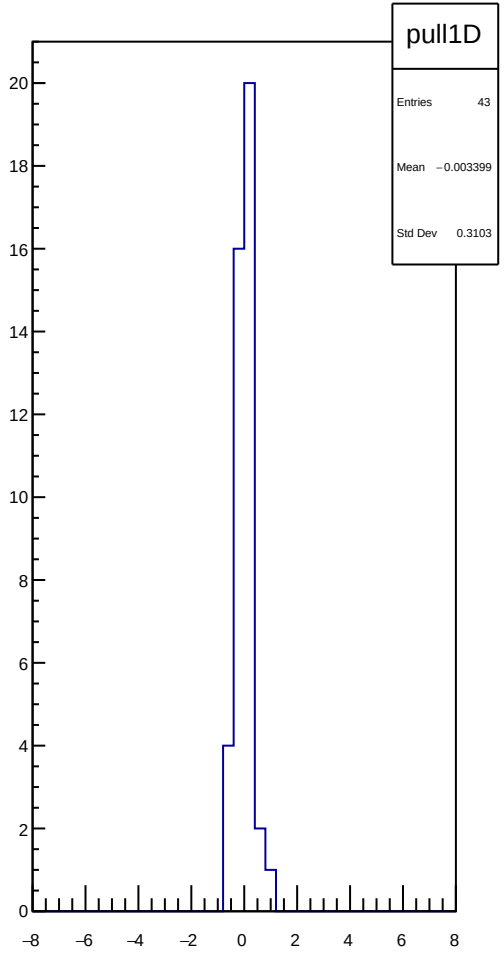

pull1D
Entries 43
Mean 0.008649
Std Dev 0.2444

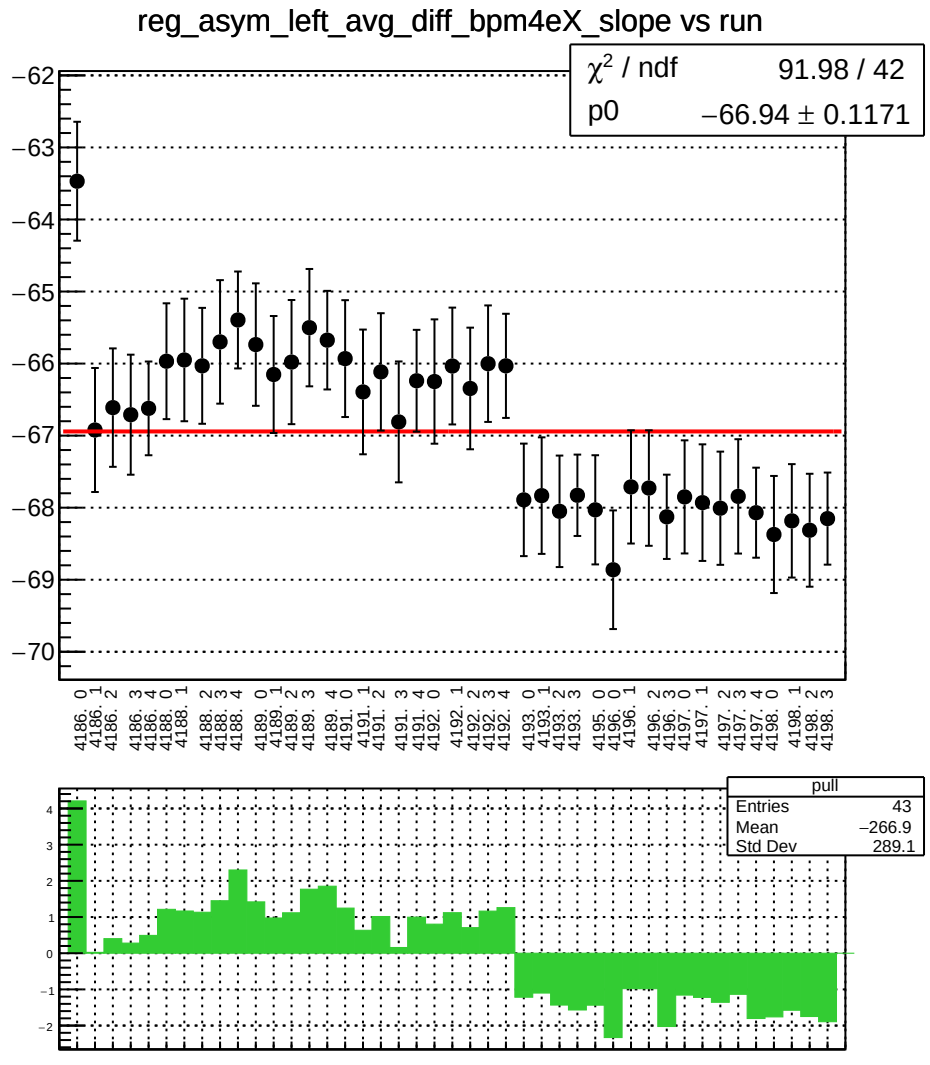

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 1.982 / 42
p0 4.54 ± 0.137
6.5
6
5.5
5
4.5
4
3.5
3
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −28.27
Std Dev 27.89
0.6
0.4
0.2
0
−0.2
pull1D
Entries 43
Mean 0.003287
Std Dev 0.2147
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

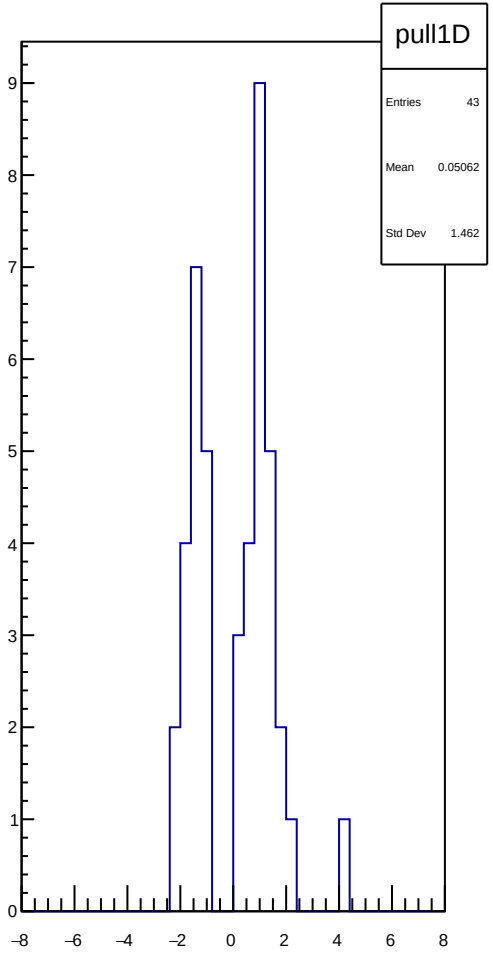

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.01 / 42
p0 17.57 ± 0.6966
pull
Entries 43
Mean −203.3
Std Dev 226.1

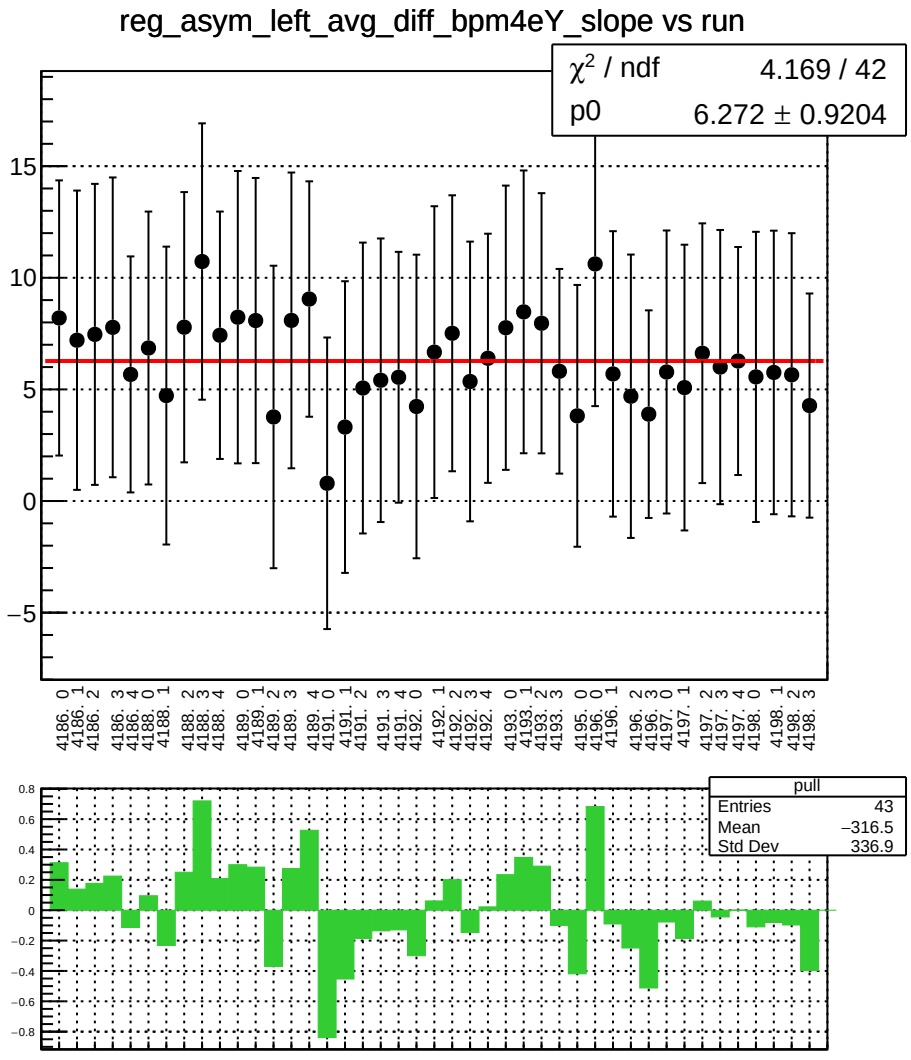

pull1D
Entries 43
Mean −0.02287
Std Dev 0.6468

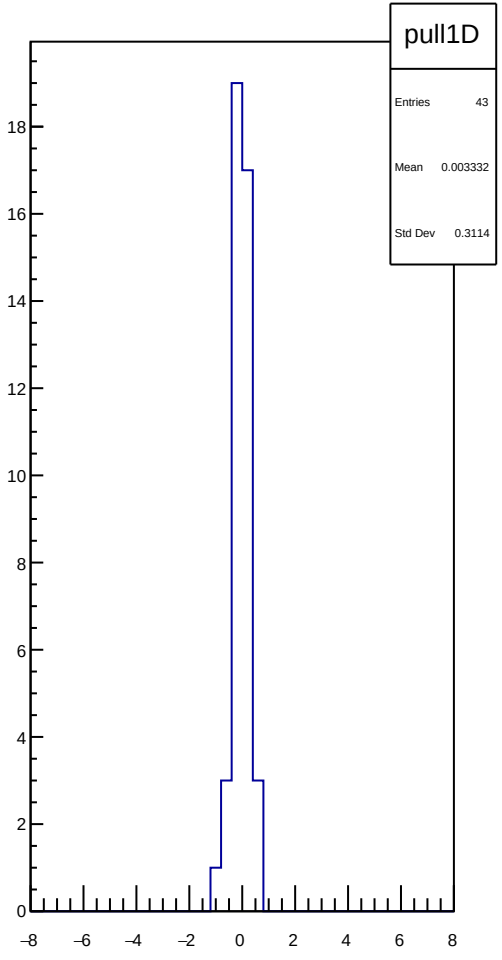

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.14 / 42
p0 3.658 ± 0.5549
pull
Entries 43
Mean −345.3
Std Dev 365.8

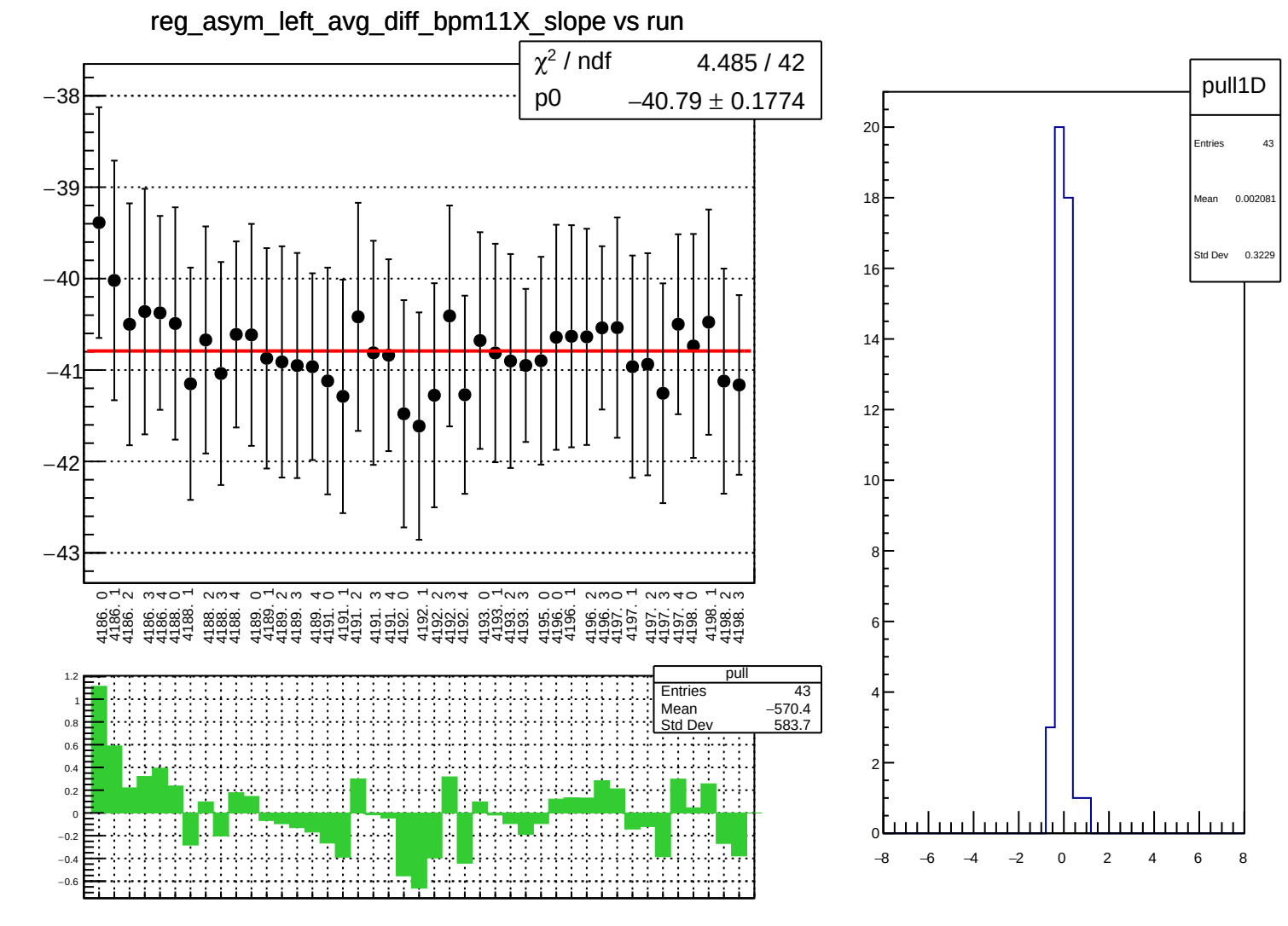

pull1D
Entries 43
Mean −0.003399
Std Dev 0.3103

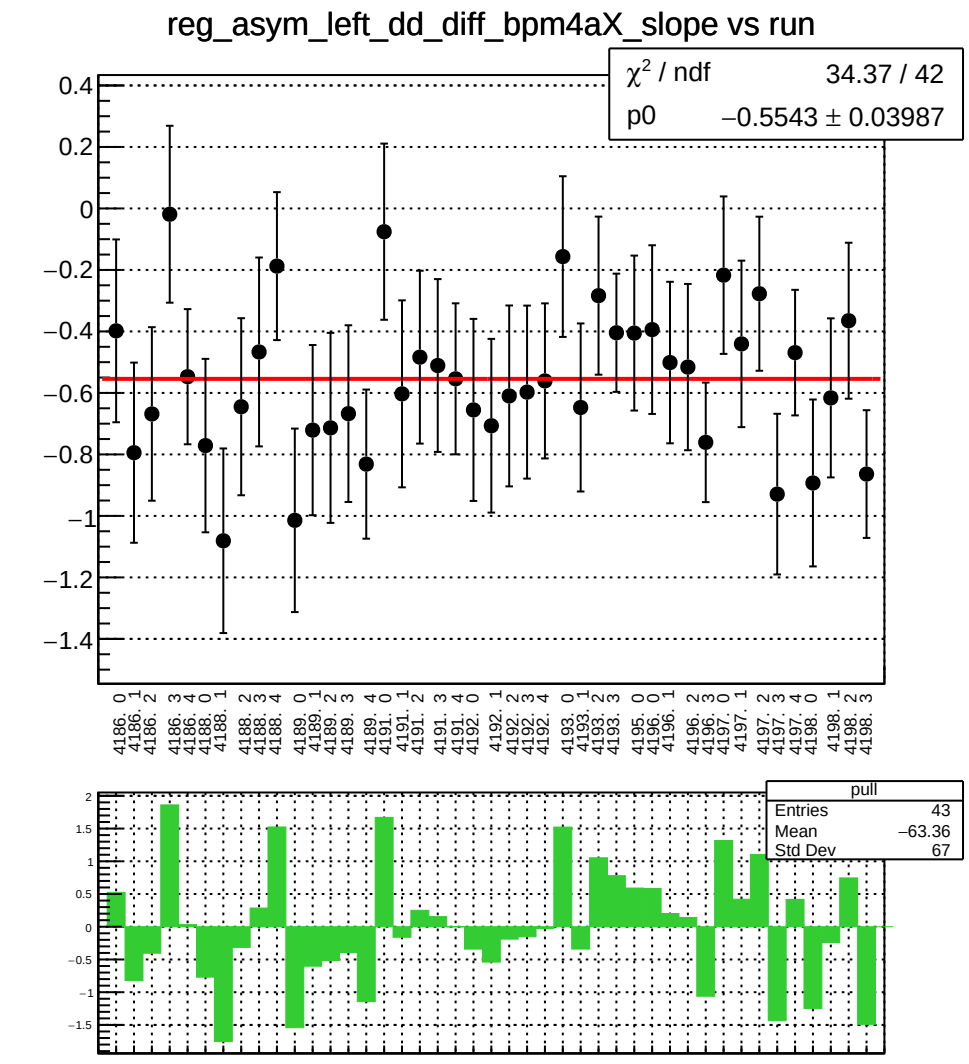

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.98 / 42
p0 −66.94 ± 0.1171
pull
Entries 43
Mean −266.9
Std Dev 289.1

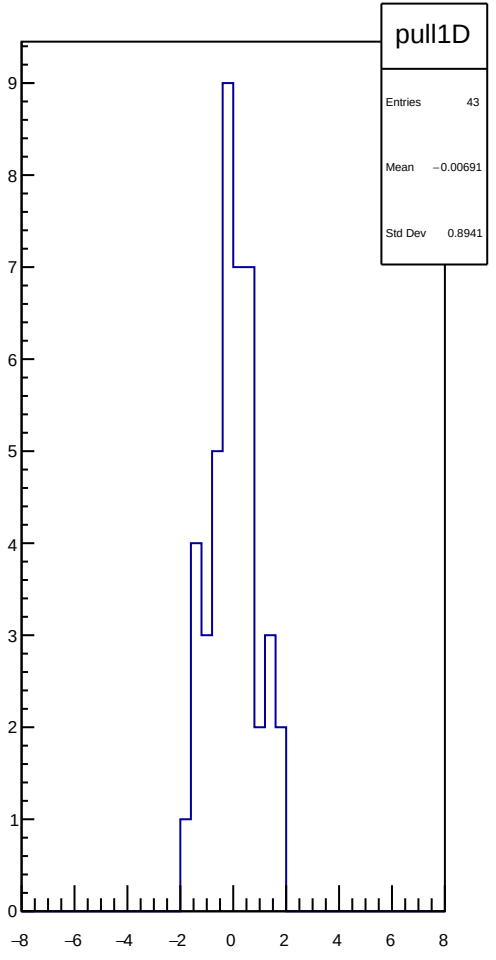

pull1D
Entries 43
Mean 0.05062
Std Dev 1.462

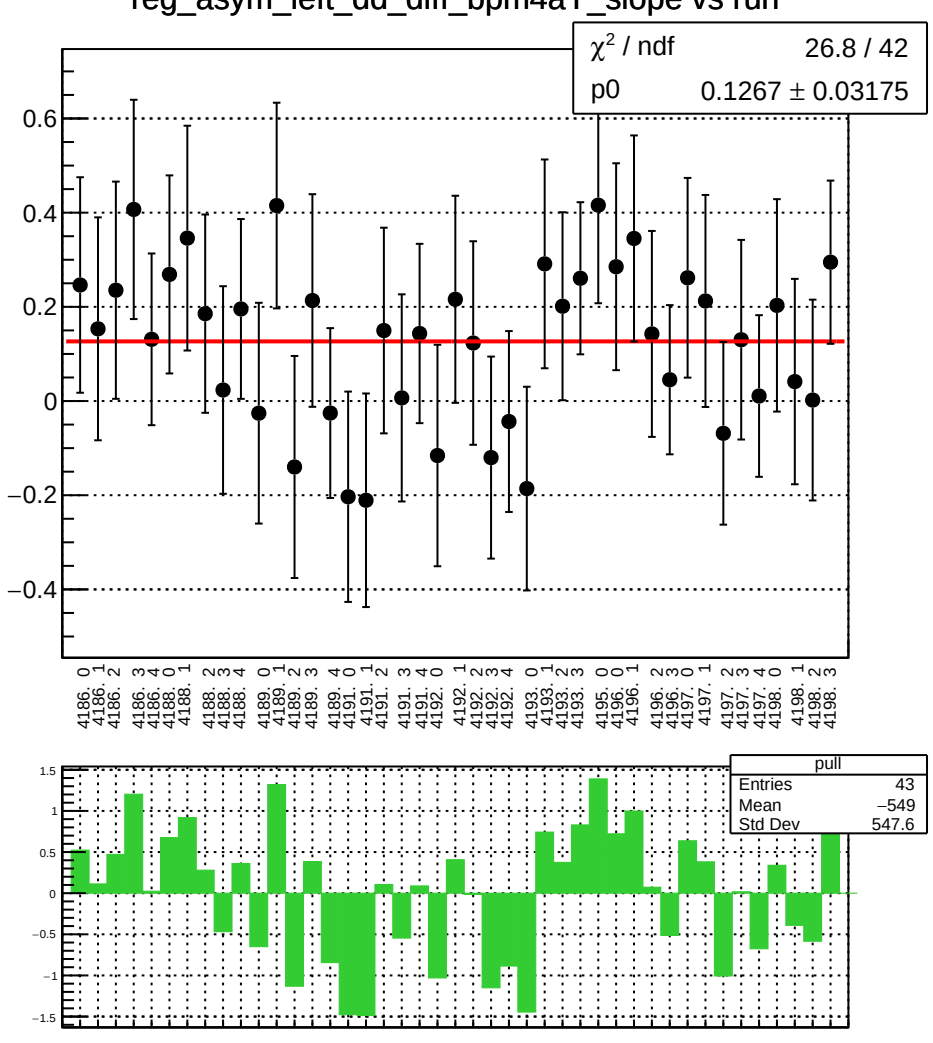

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.169 / 42
p0 6.272 ± 0.9204
15
10
5
0
−5
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −316.5
Std Dev 336.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

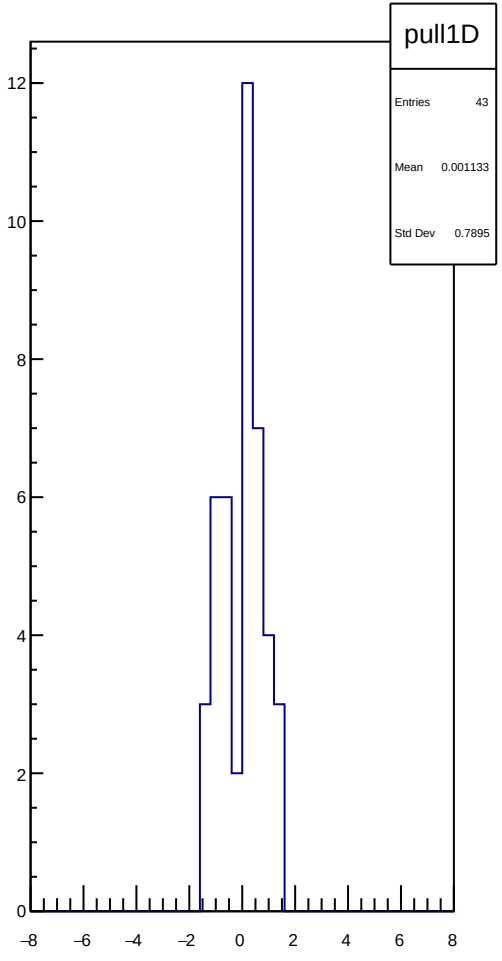

pull1D
Entries 43
Mean 0.003332
Std Dev 0.3114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

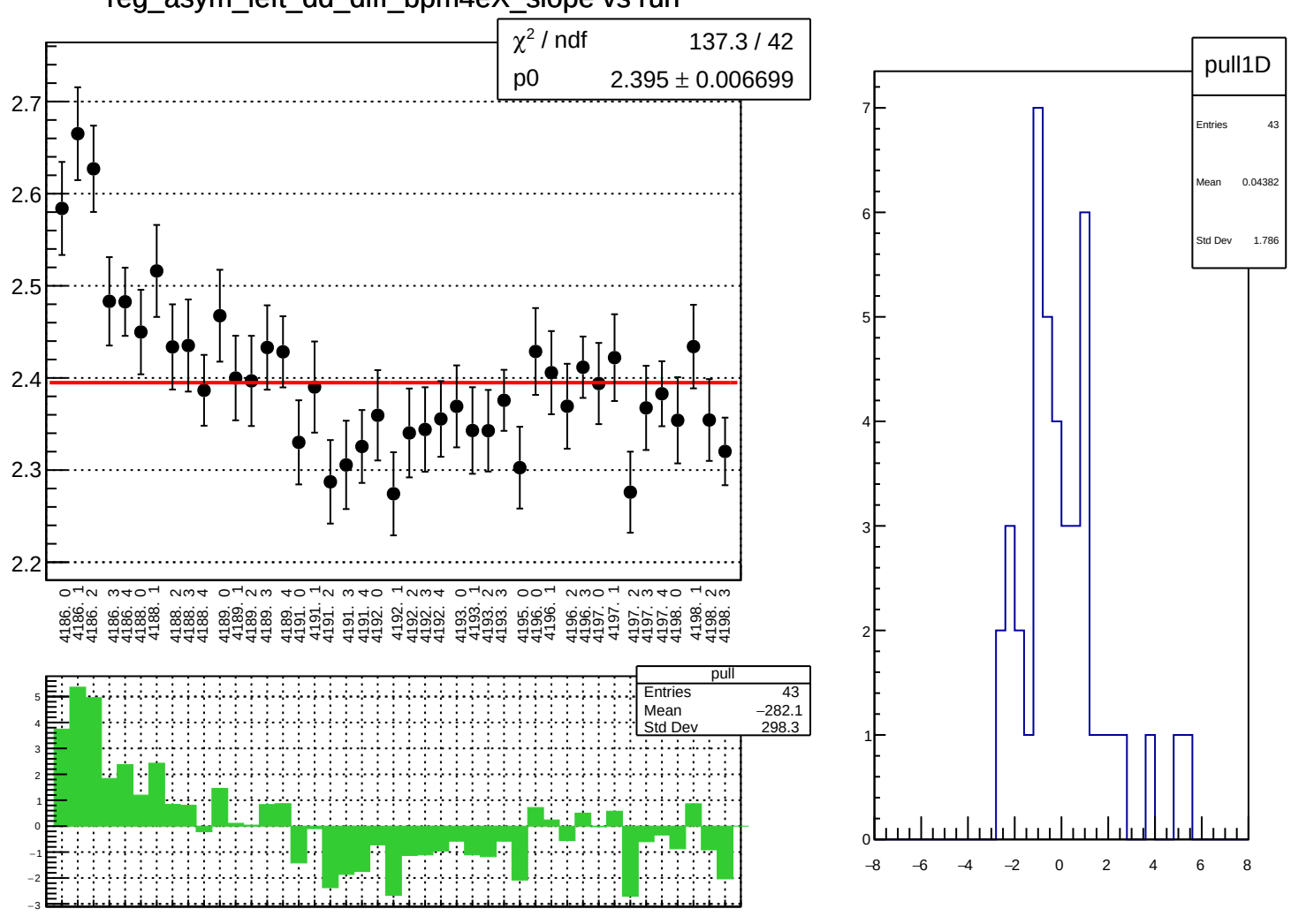

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 4.485 / 42
p0 −40.79 ± 0.1774
pull
Entries 43
Mean −570.4
Std Dev 583.7
pull1D
Entries 43
Mean 0.002081
Std Dev 0.3229

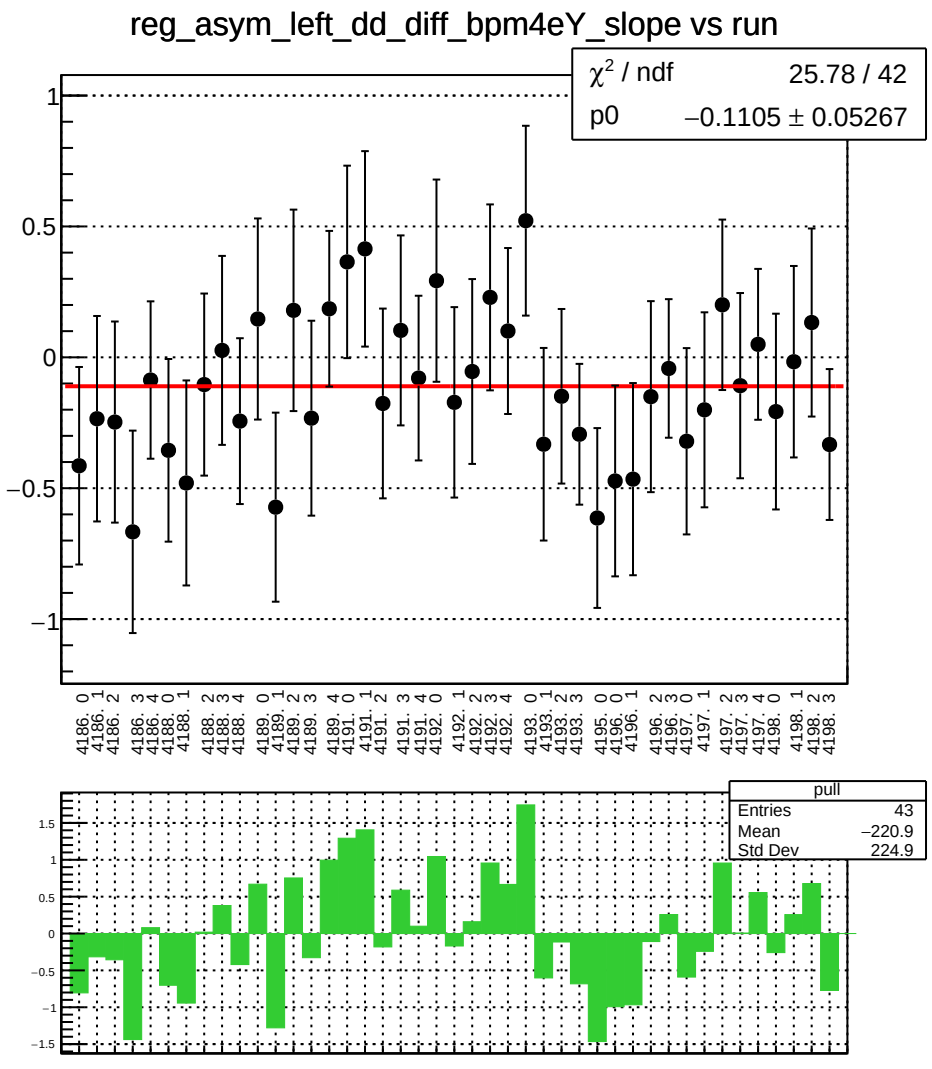

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.37 / 42
p0 −0.5543 ± 0.03987
pull
Entries 43
Mean −63.36
Std Dev 67

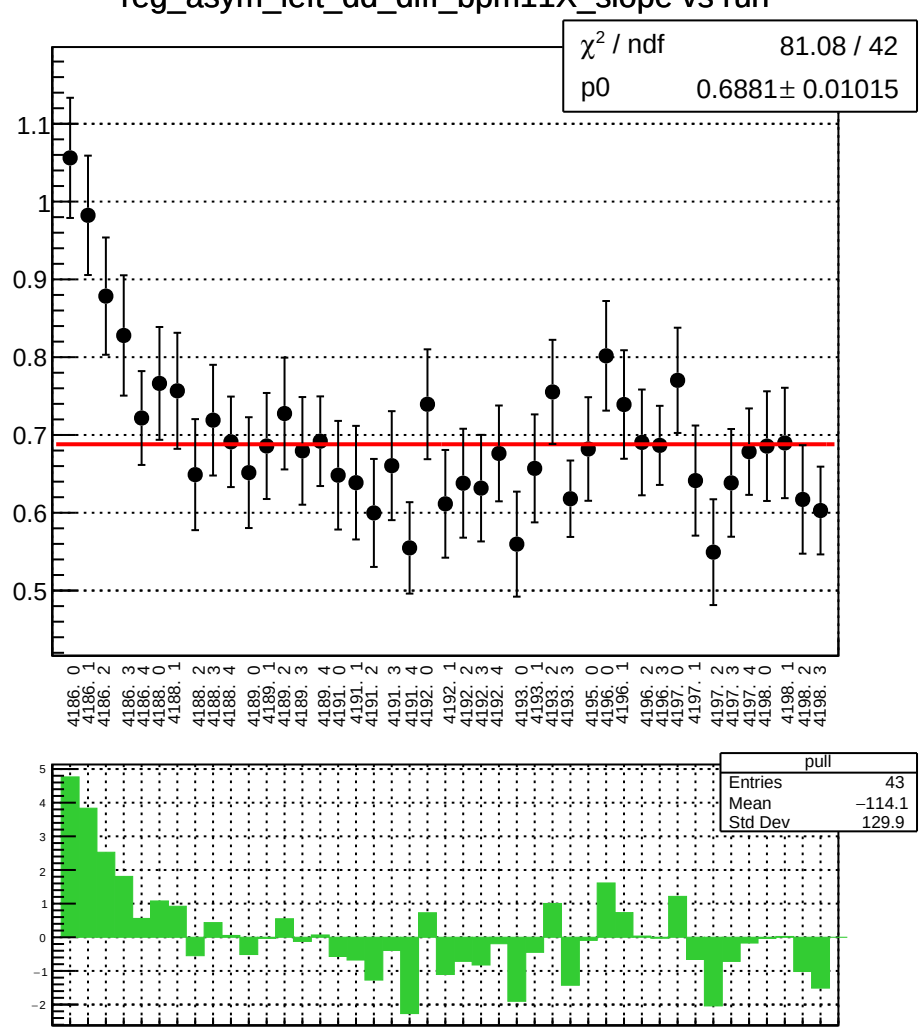

pull1D
Entries 43
Mean −0.00691
Std Dev 0.8941

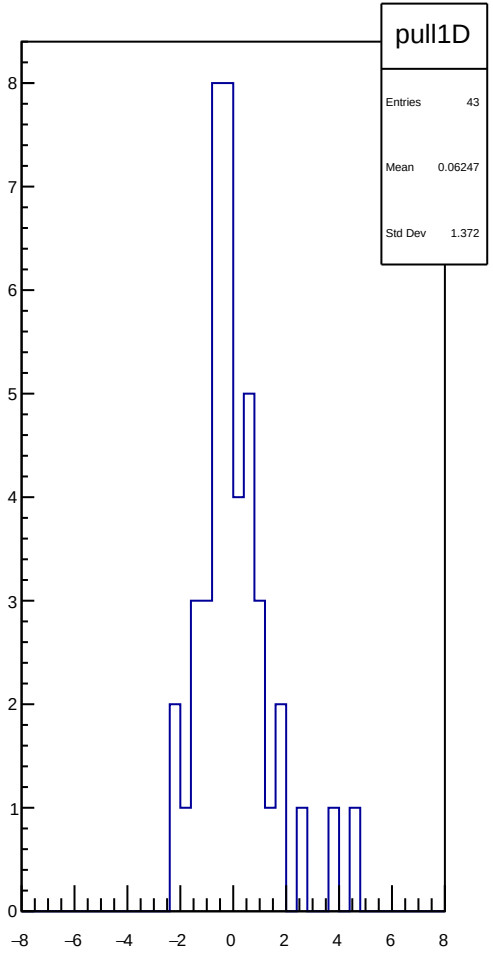

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.8 / 42
p0 0.1267 ± 0.03175
pull
Entries 43
Mean −549
Std Dev 547.6

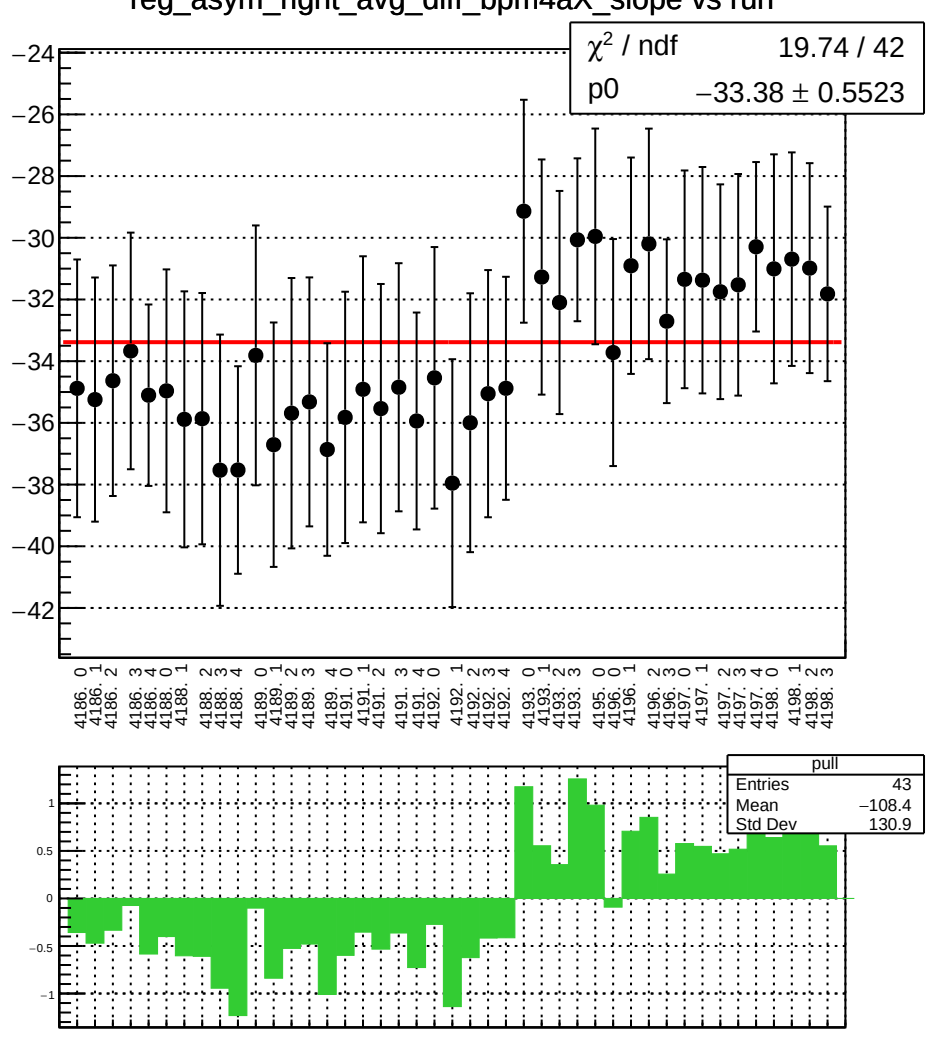

pull1D
Entries 43
Mean 0.001133
Std Dev 0.7895

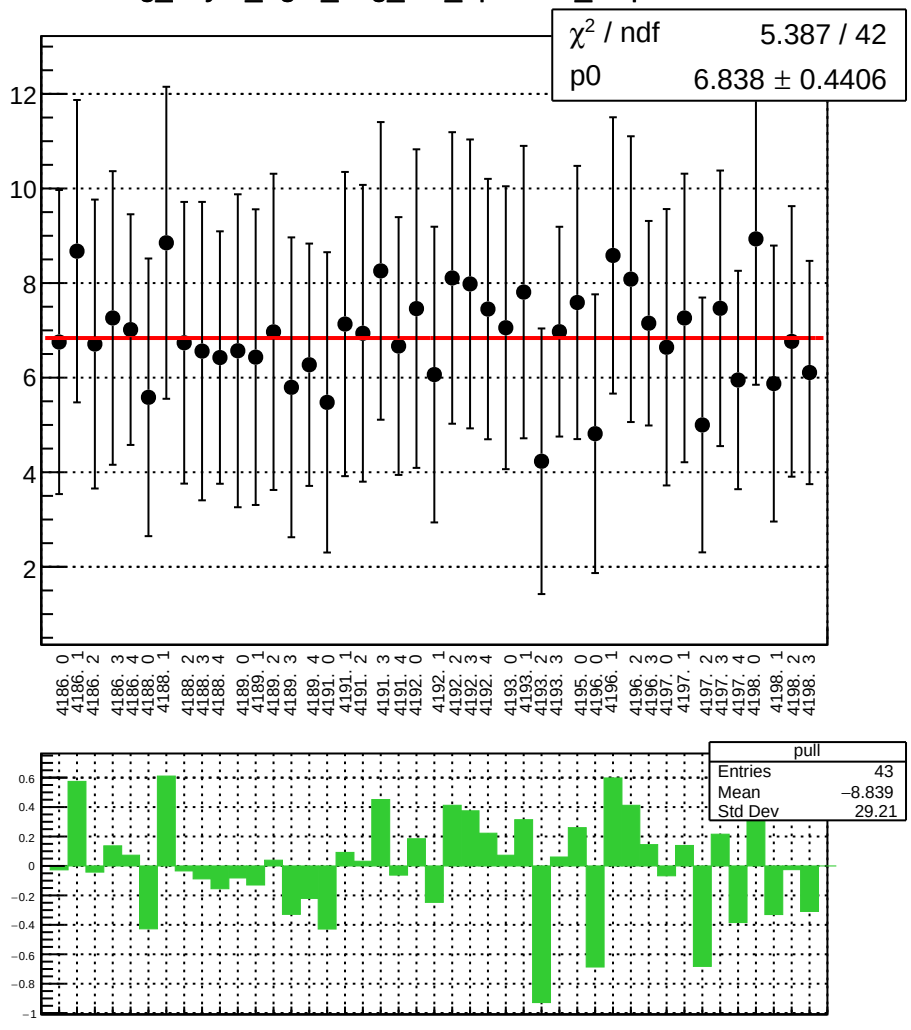

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 137.3 / 42
p0 2.395 ± 0.006699
pull
Entries 43
Mean −282.1
Std Dev 298.3
pull1D
Entries 43
Mean 0.04382
Std Dev 1.786

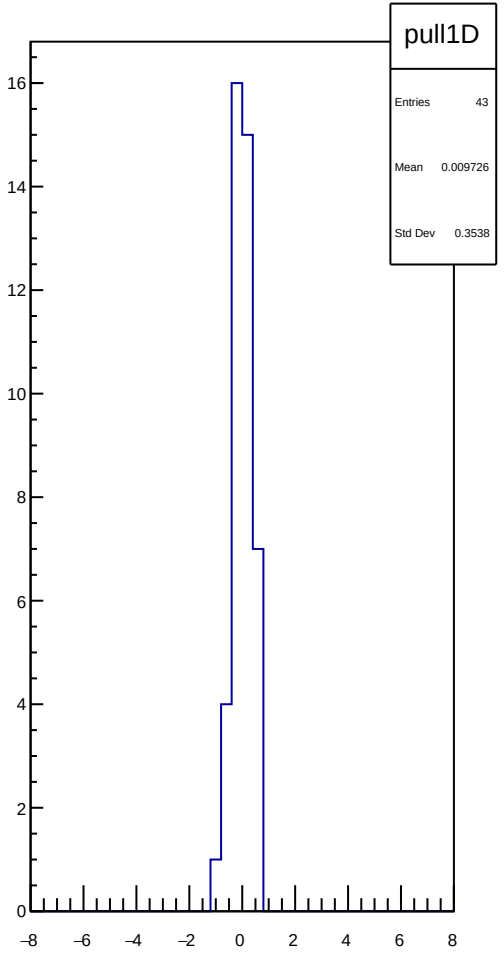

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.78 / 42
p0 −0.1105 ± 0.05267
1
0.5
0
−0.5
−1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −220.9
Std Dev 224.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.003983
Std Dev 0.7743
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

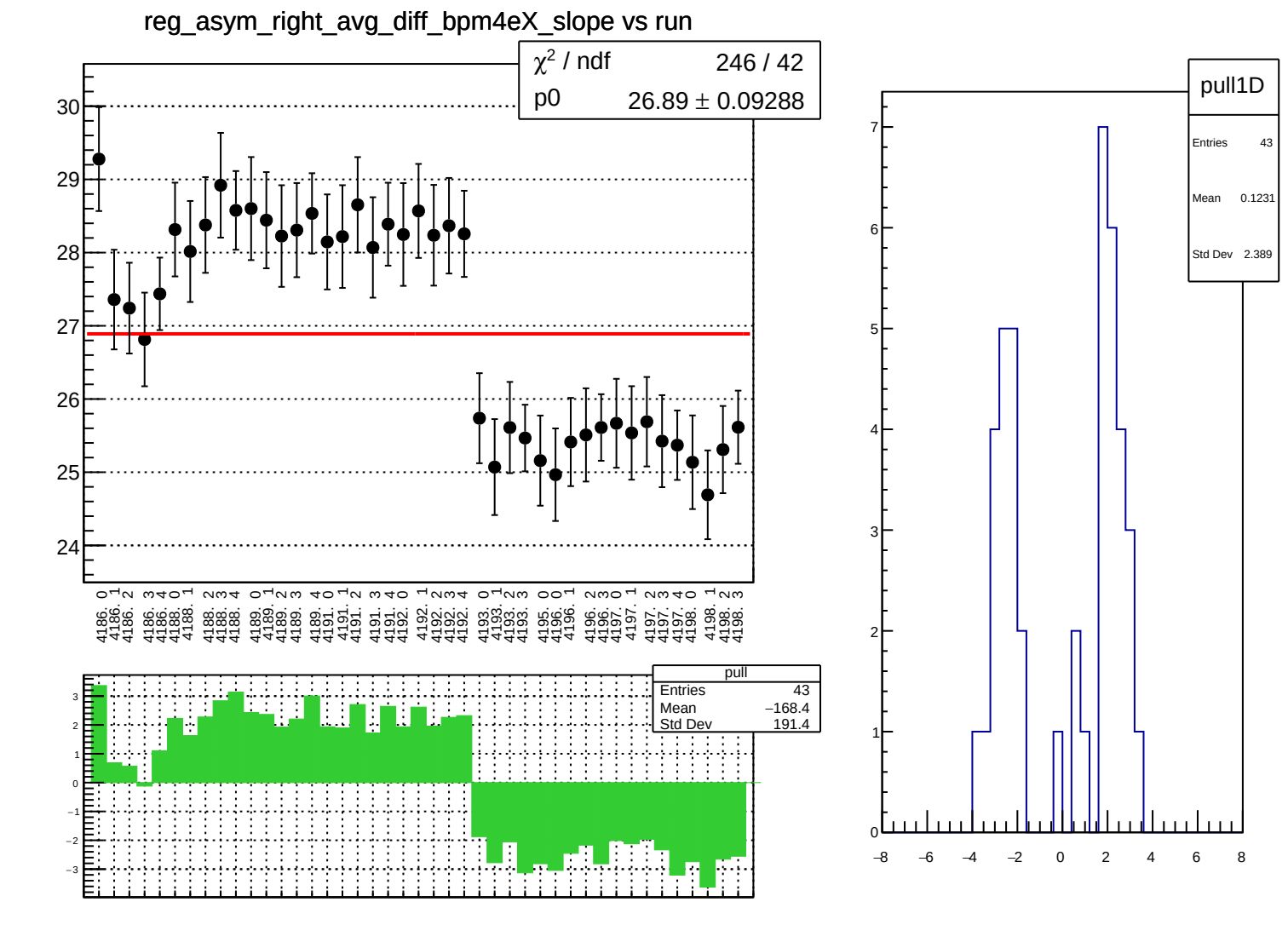

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 81.08 / 42
p0 0.6881± 0.01015
pull
Entries 43
Mean −114.1
Std Dev 129.9

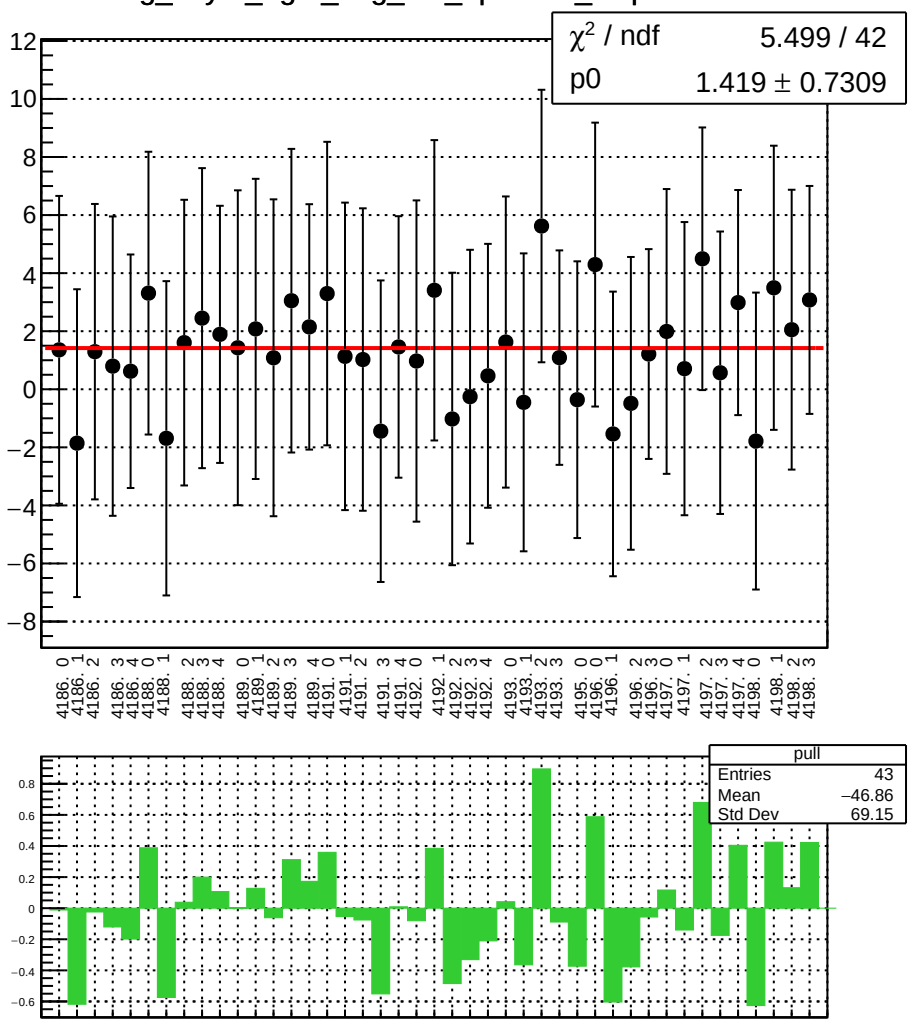

pull1D
Entries 43
Mean 0.06247
Std Dev 1.372

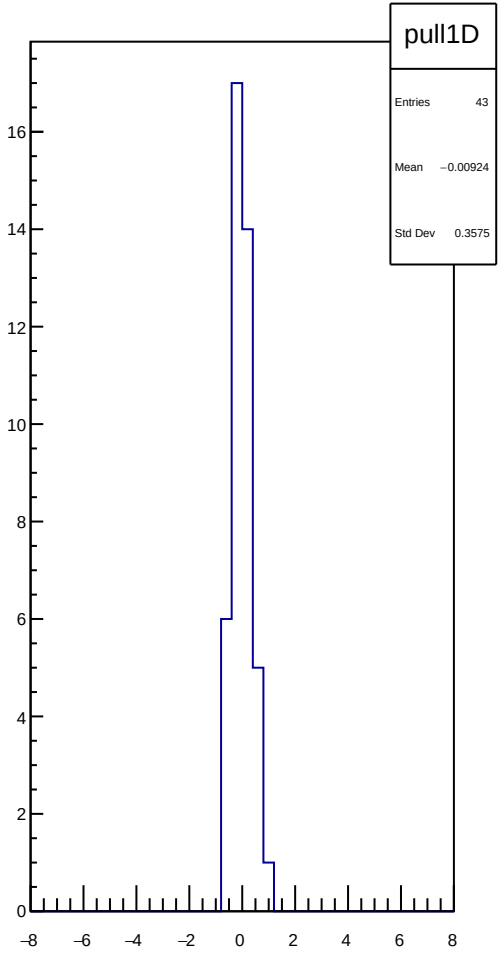

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.74 / 42
p0 −33.38 ± 0.5523
pull
Entries 43
Mean −108.4
Std Dev 130.9
pull1D
Entries 43
Mean −0.04742
Std Dev 0.6759

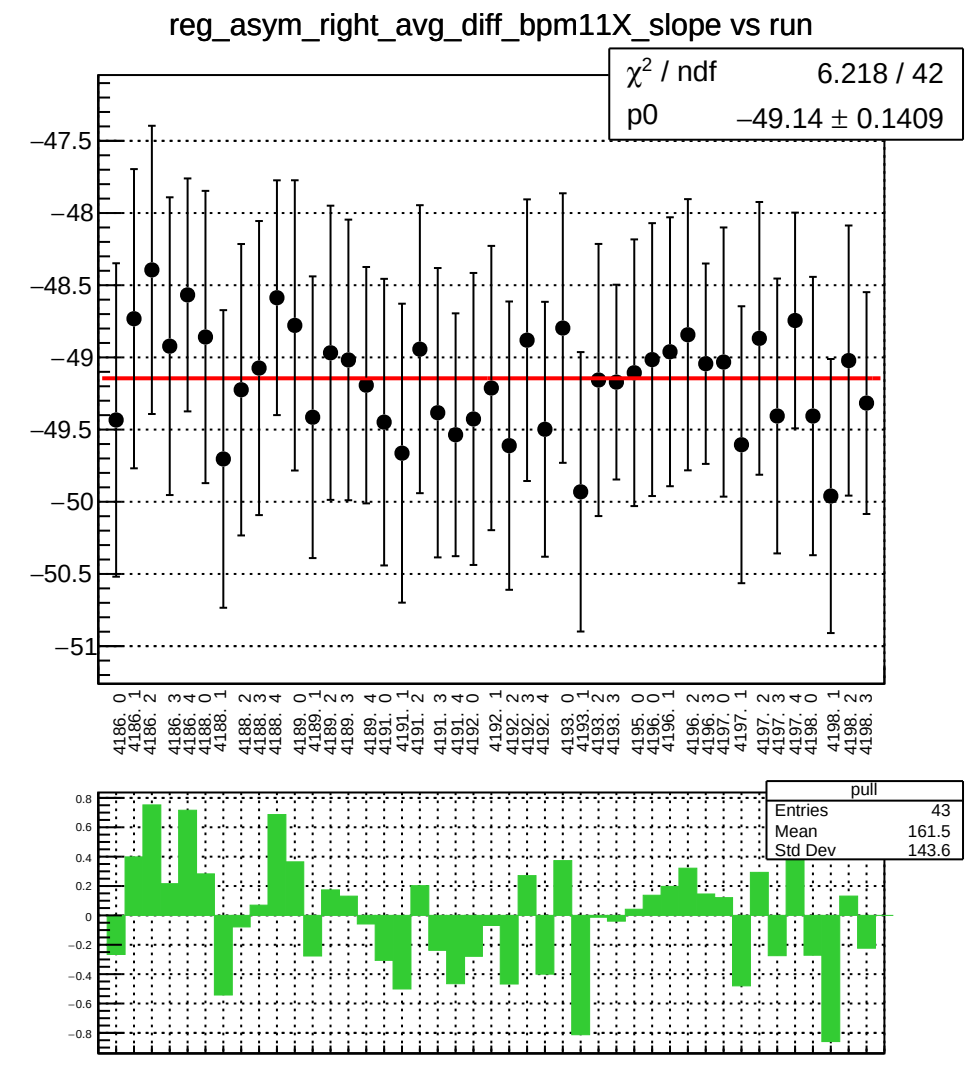

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.387 / 42
p0 6.838 ± 0.4406
pull
Entries 43
Mean −8.839
Std Dev 29.21

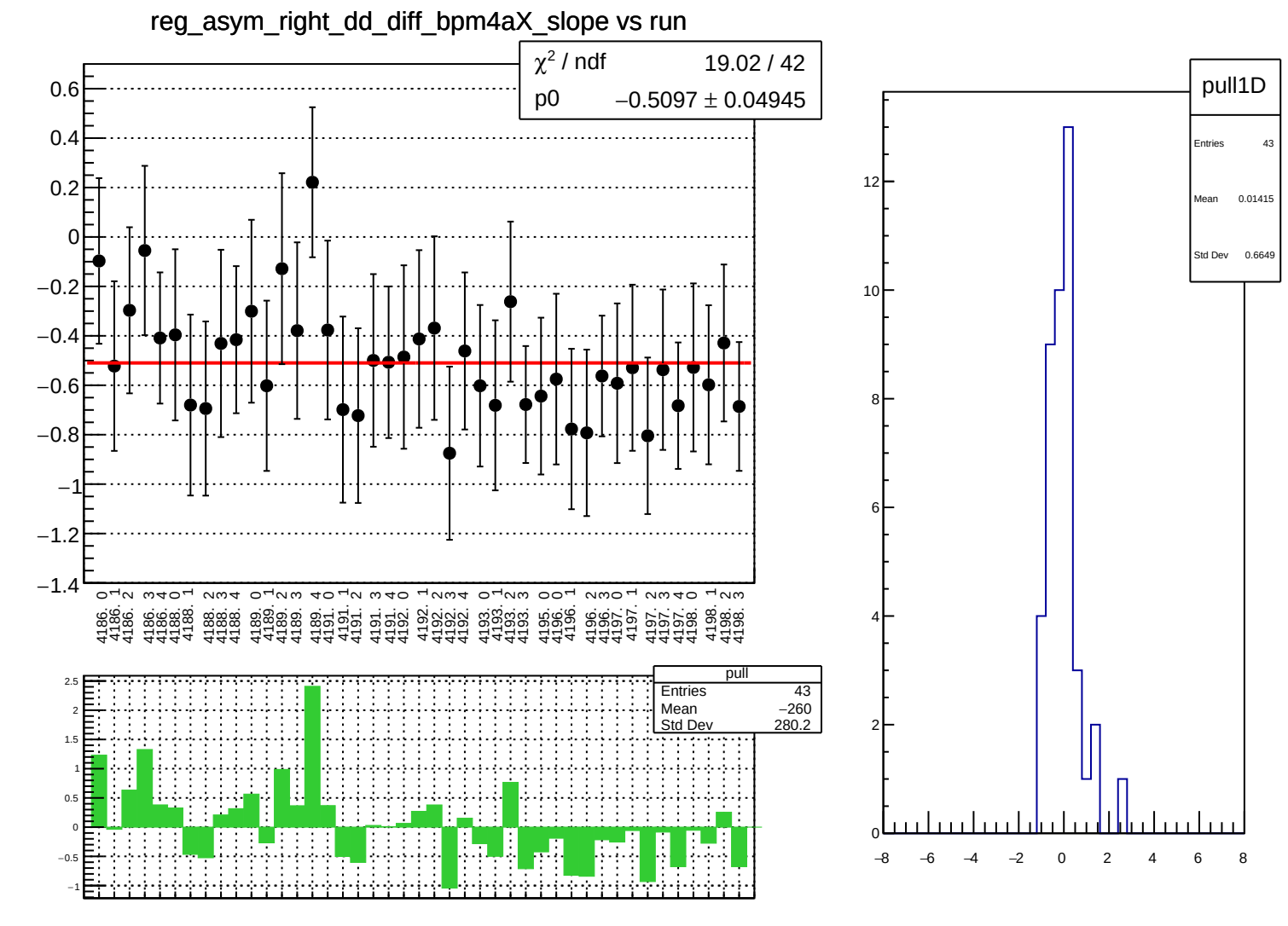

pull1D
Entries 43
Mean 0.009726
Std Dev 0.3538

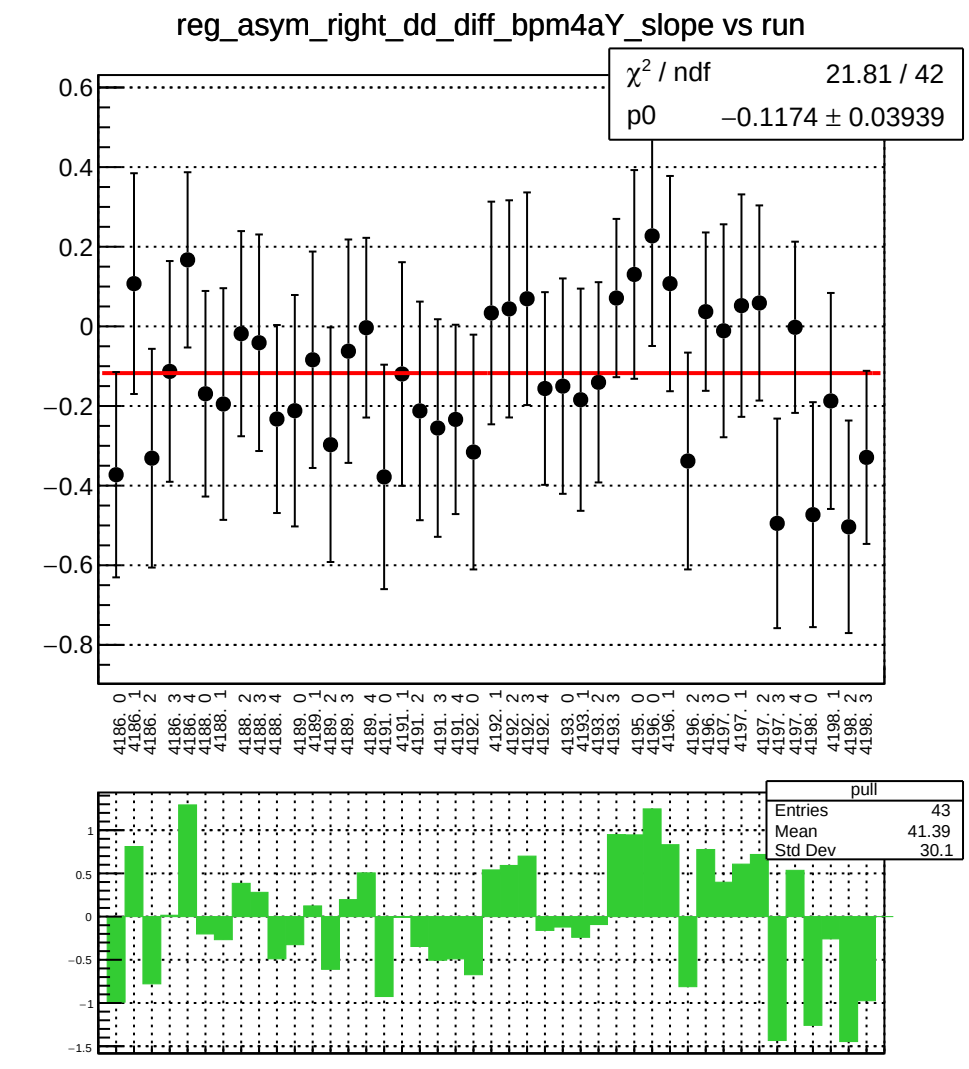

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 246 / 42
p0 26.89 ± 0.09288
pull
Entries 43
Mean −168.4
Std Dev 191.4
pull1D
Entries 43
Mean 0.1231
Std Dev 2.389

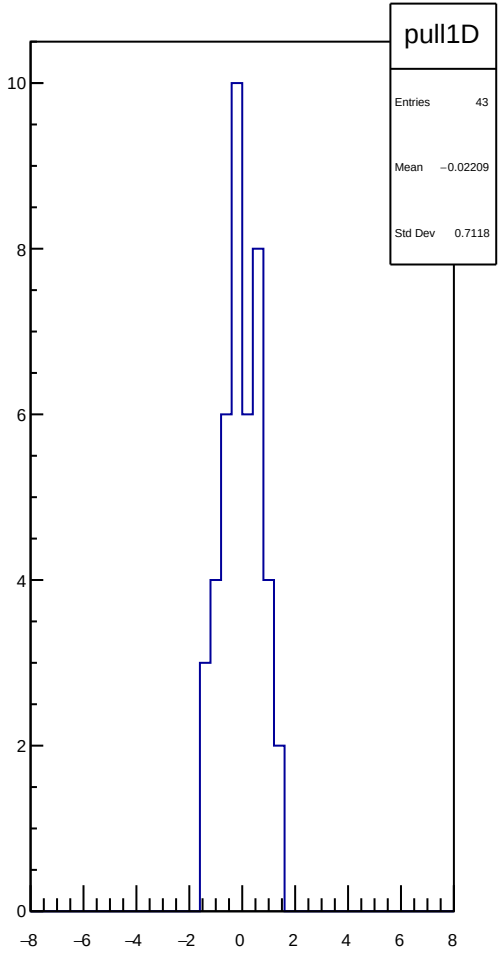

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.499 / 42
p0 1.419 ± 0.7309
pull
Entries 43
Mean −46.86
Std Dev 69.15

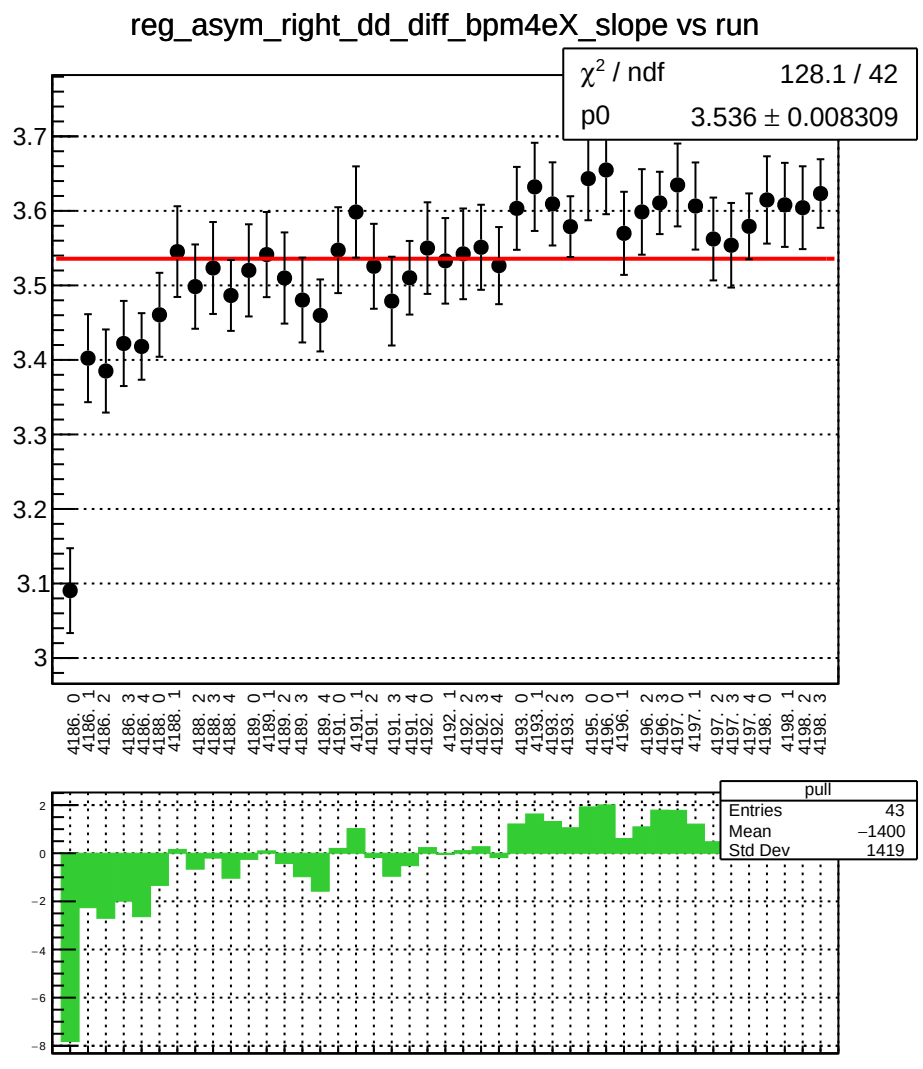

pull1D
Entries 43
Mean −0.00924
Std Dev 0.3575

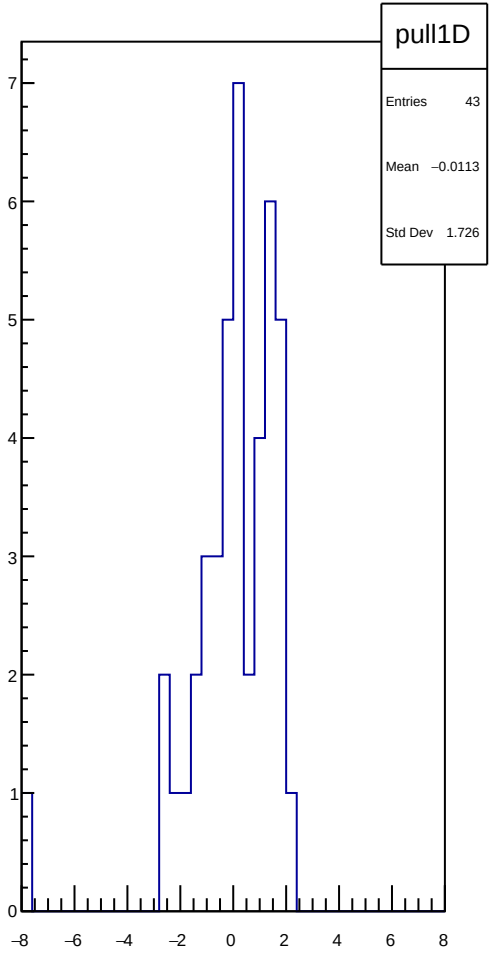

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 6.218 / 42
p0 −49.14 ± 0.1409
−47.5
−48
−48.5
−49
−49.5
−50
−50.5
−51
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 161.5
Std Dev 143.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.008249
Std Dev 0.3802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

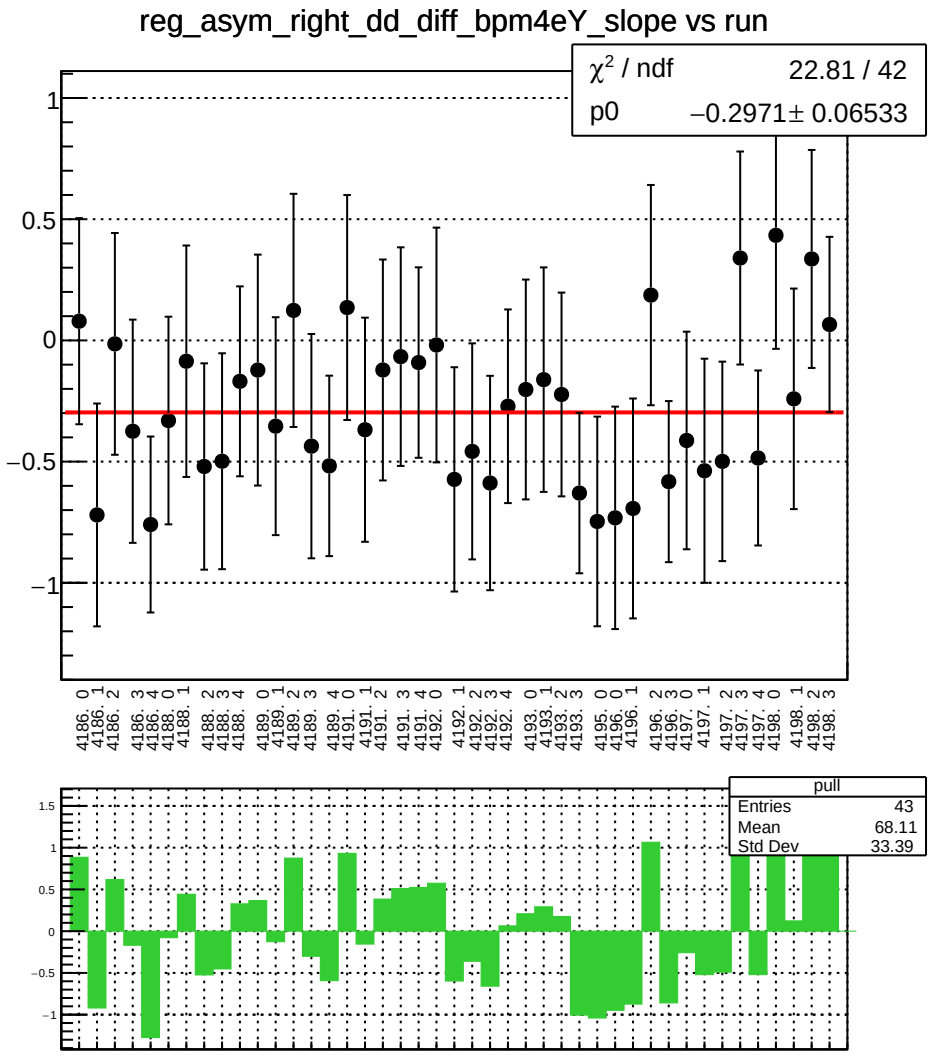

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.02 / 42
p0 −0.5097 ± 0.04945
pull
Entries 43
Mean −260
Std Dev 280.2
pull1D
Entries 43
Mean 0.01415
Std Dev 0.6649

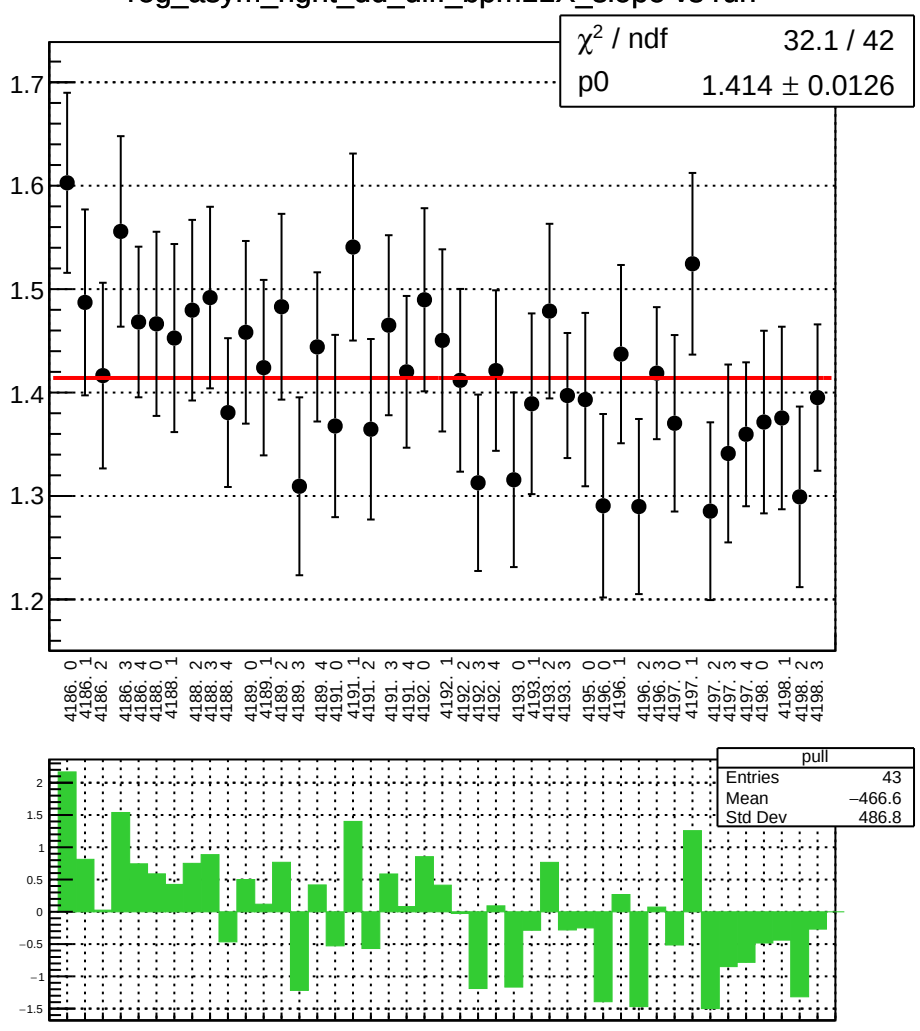

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.81 / 42
p0 −0.1174 ± 0.03939
pull
Entries 43
Mean 41.39
Std Dev 30.1

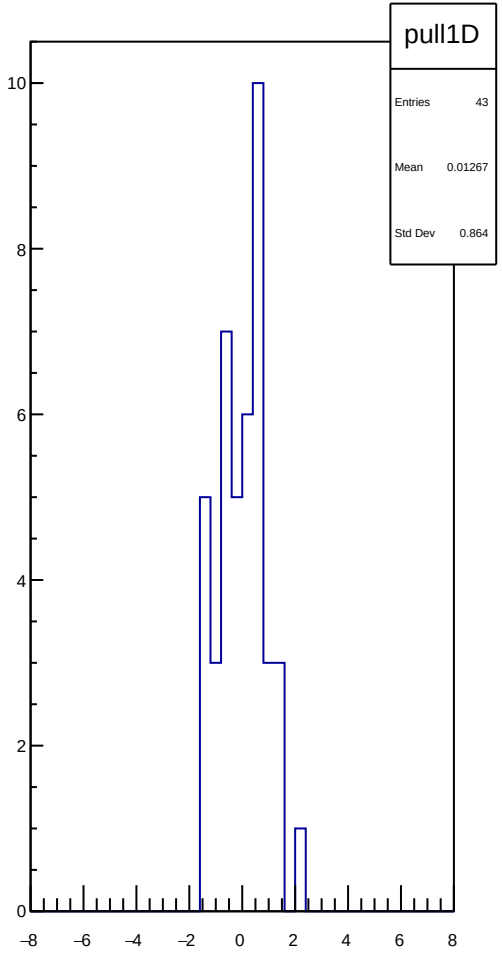

pull1D
Entries 43
Mean −0.02209
Std Dev 0.7118

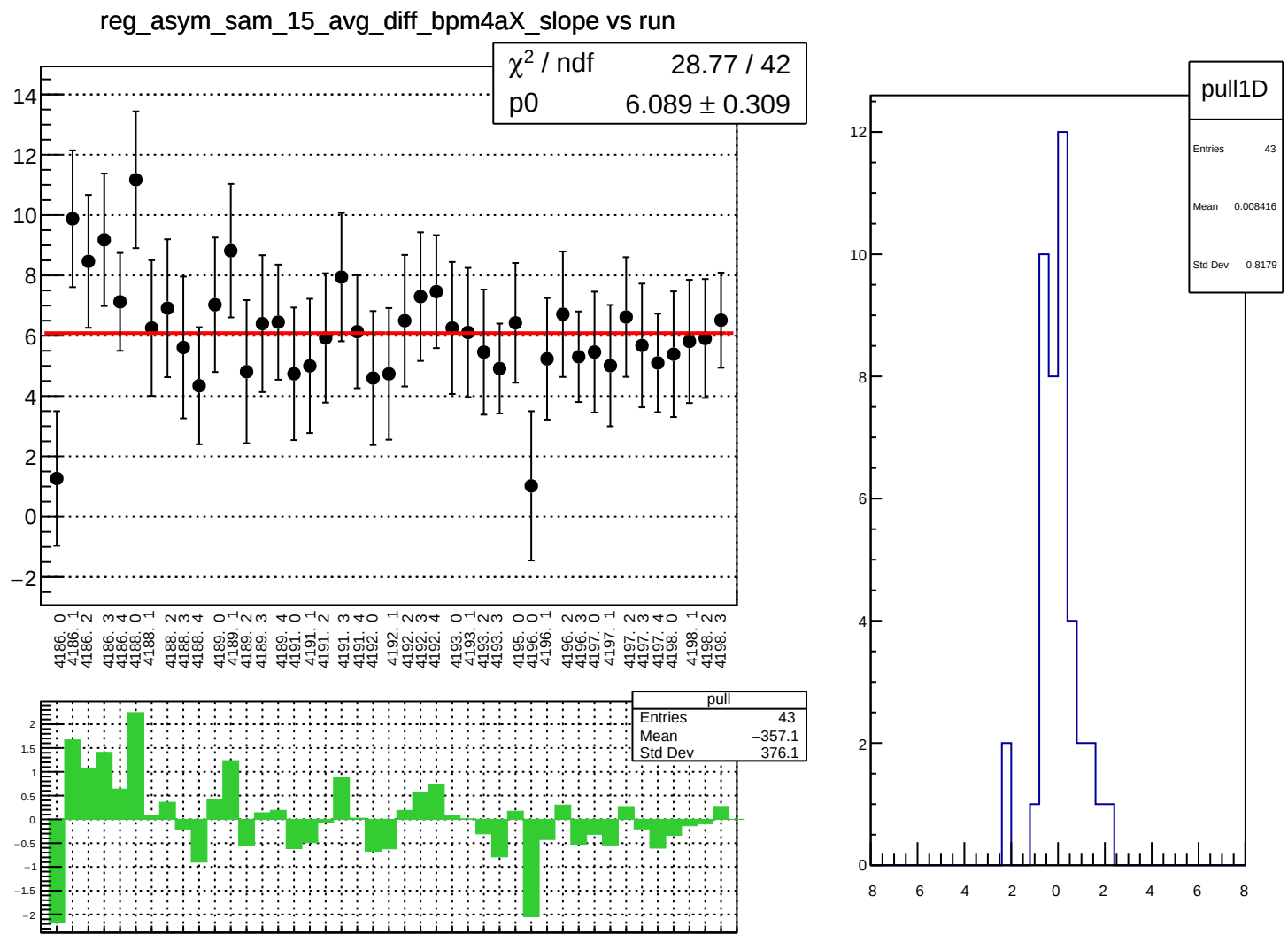

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 128.1 / 42
p0 3.536 ± 0.008309
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −1400
Std Dev 1419
2
0
−2
−4
−6
−8

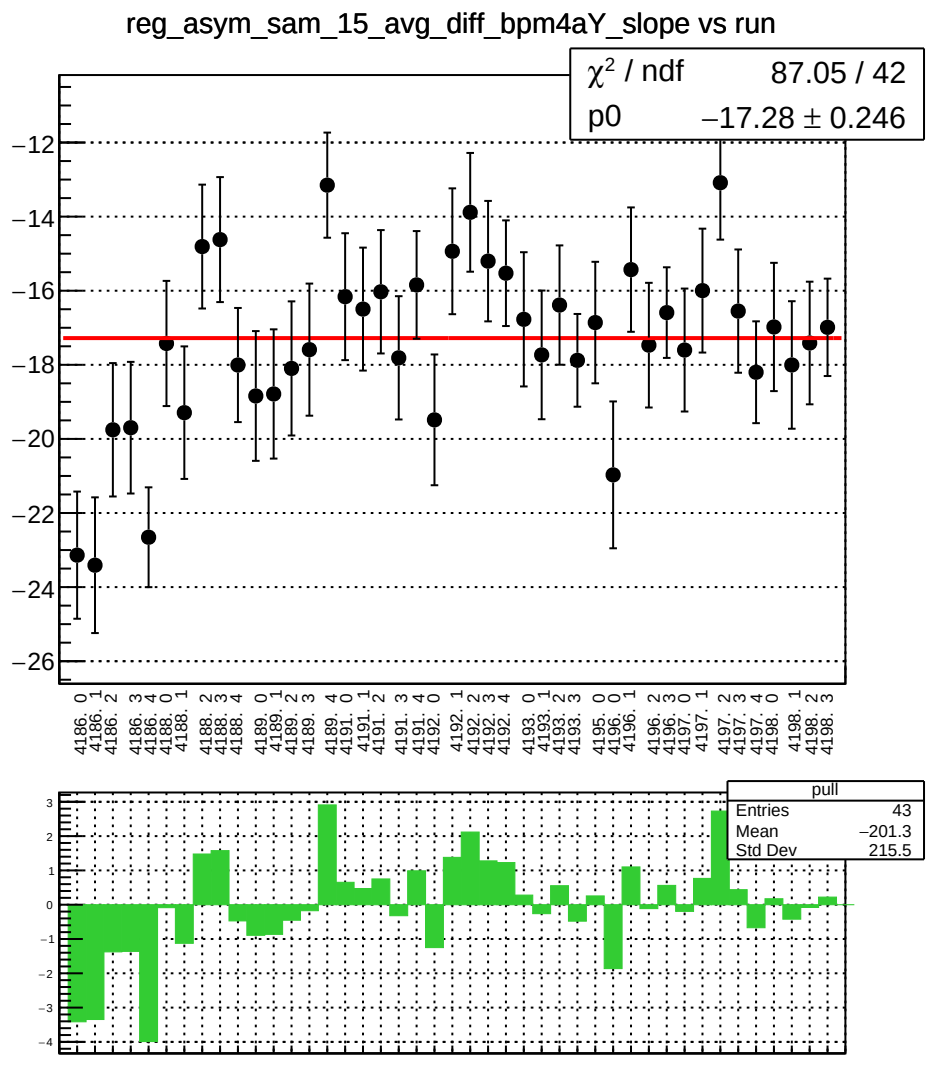

pull1D
Entries 43
Mean −0.0113
Std Dev 1.726
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

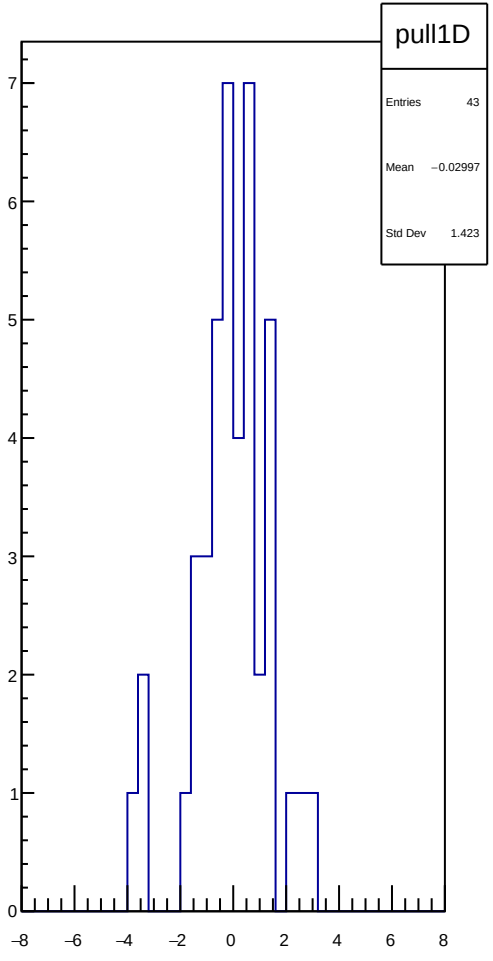

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.81 / 42
p0 −0.2971± 0.06533
pull
Entries 43
Mean 68.11
Std Dev 33.39
pull1D
Entries 43
Mean 0.0248
Std Dev 0.728

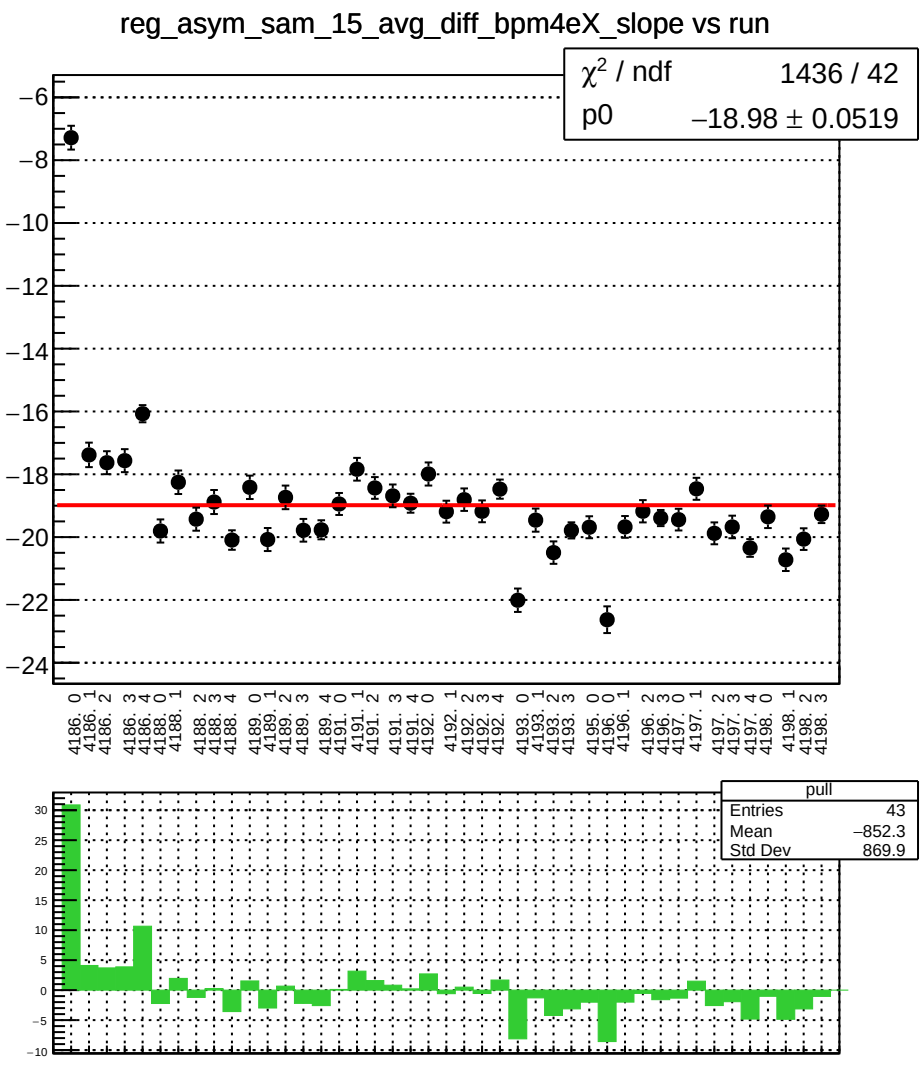

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 32.1 / 42
p0 1.414 ± 0.0126
pull
Entries 43
Mean −466.6
Std Dev 486.8

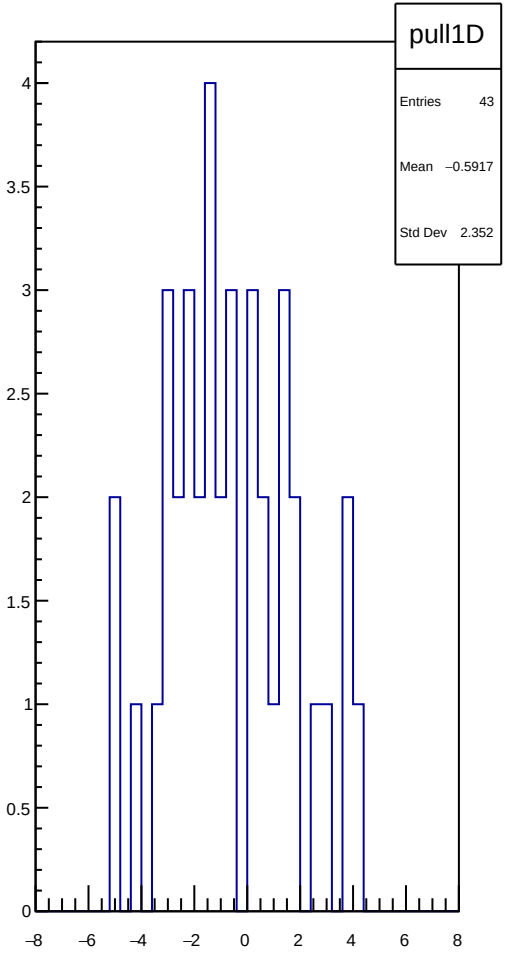

pull1D
Entries 43
Mean 0.01267
Std Dev 0.864

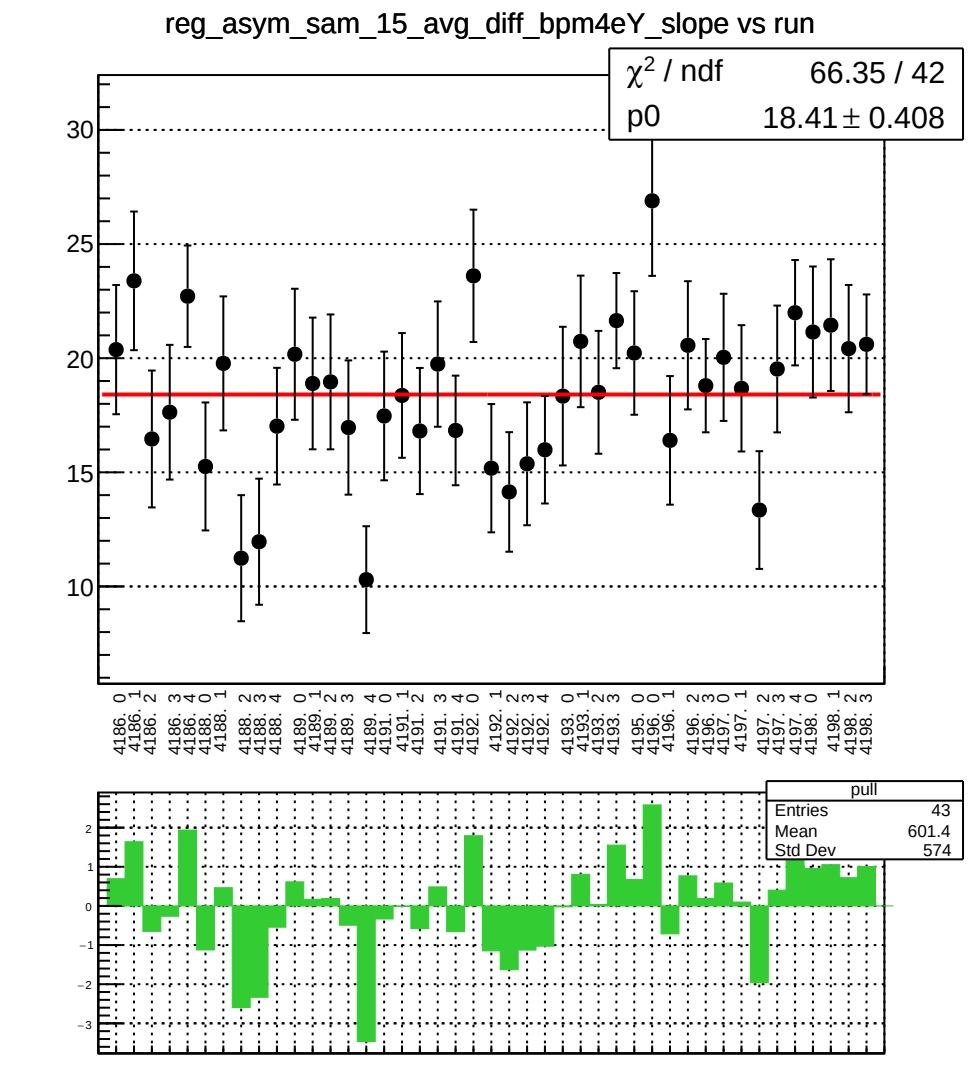

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.77 / 42
p0 6.089 ± 0.309
pull
Entries 43
Mean −357.1
Std Dev 376.1
pull1D
Entries 43
Mean 0.008416
Std Dev 0.8179

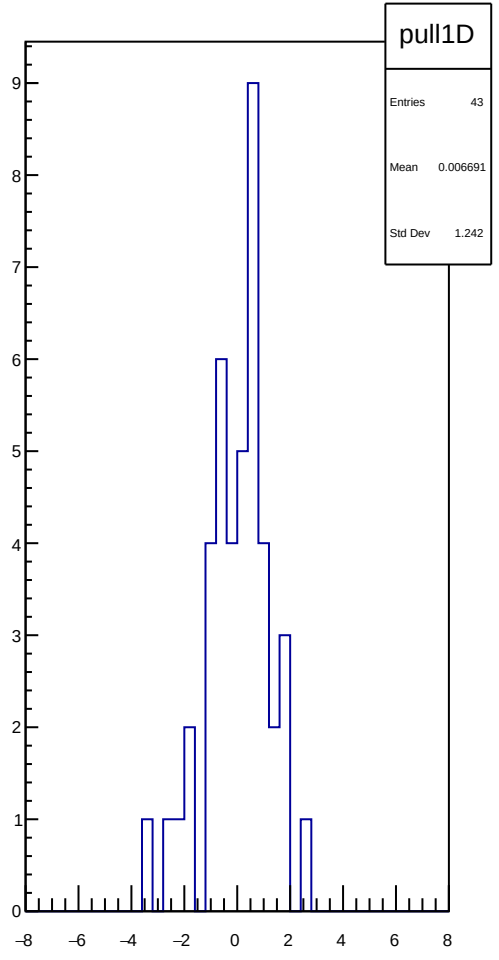

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.05 / 42
p0 −17.28 ± 0.246
pull
Entries 43
Mean −201.3
Std Dev 215.5


pull1D
Entries 43
Mean −0.02997
Std Dev 1.423

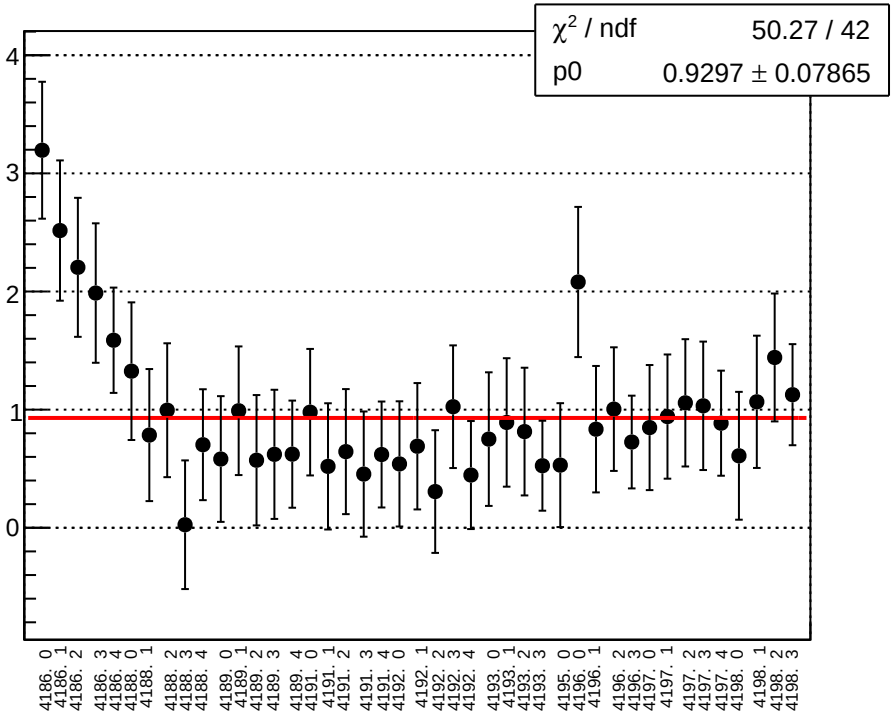

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1436 / 42
p0 −18.98 ± 0.0519
pull
Entries 43
Mean −852.3
Std Dev 869.9

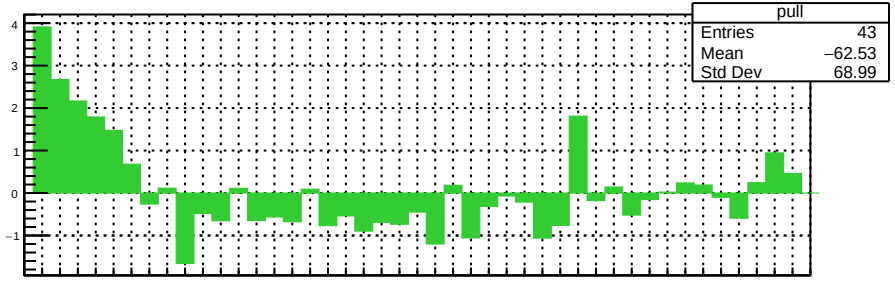

pull1D
Entries 43
Mean −0.5917
Std Dev 2.352

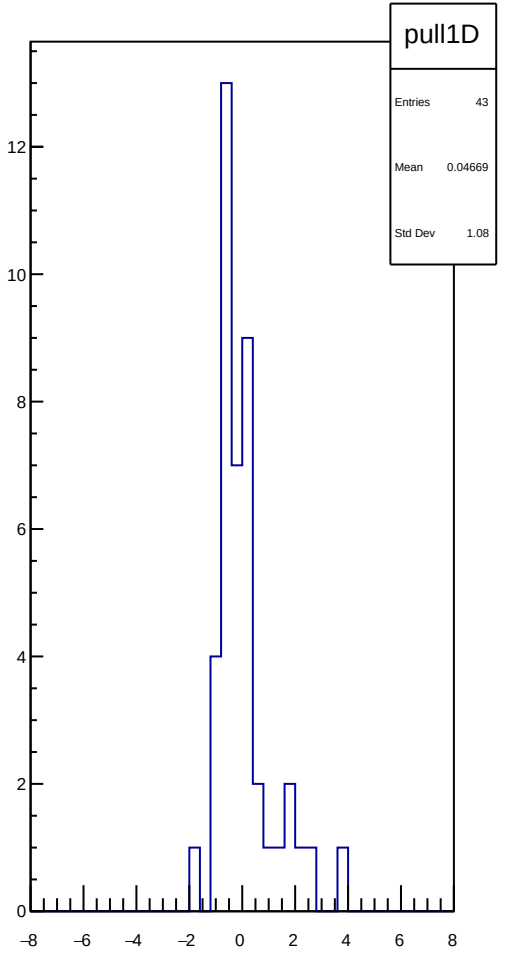

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.35 / 42
p0 18.41 ± 0.408
pull
Entries 43
Mean 601.4
Std Dev 574

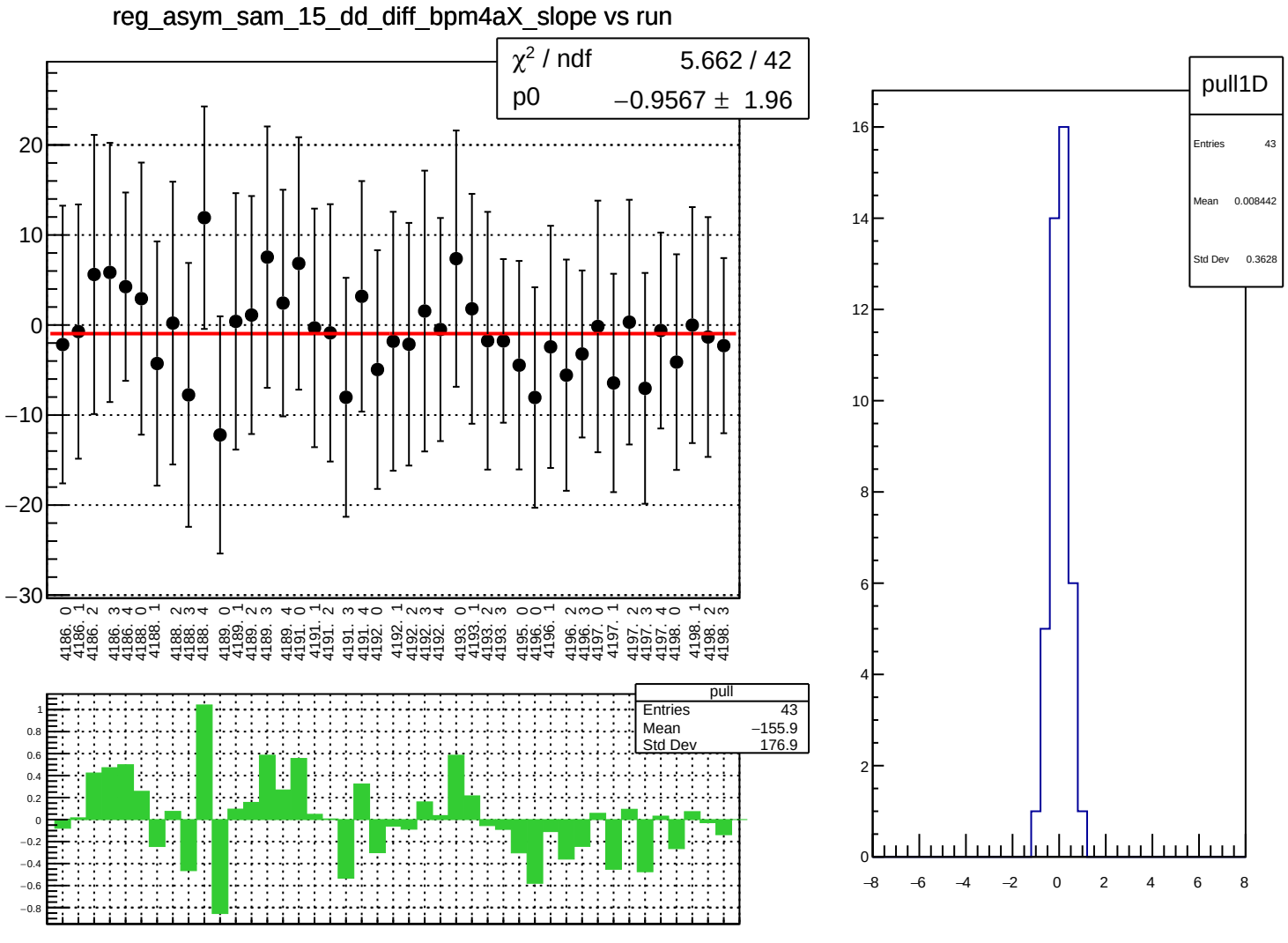

pull1D
Entries 43
Mean 0.006691
Std Dev 1.242

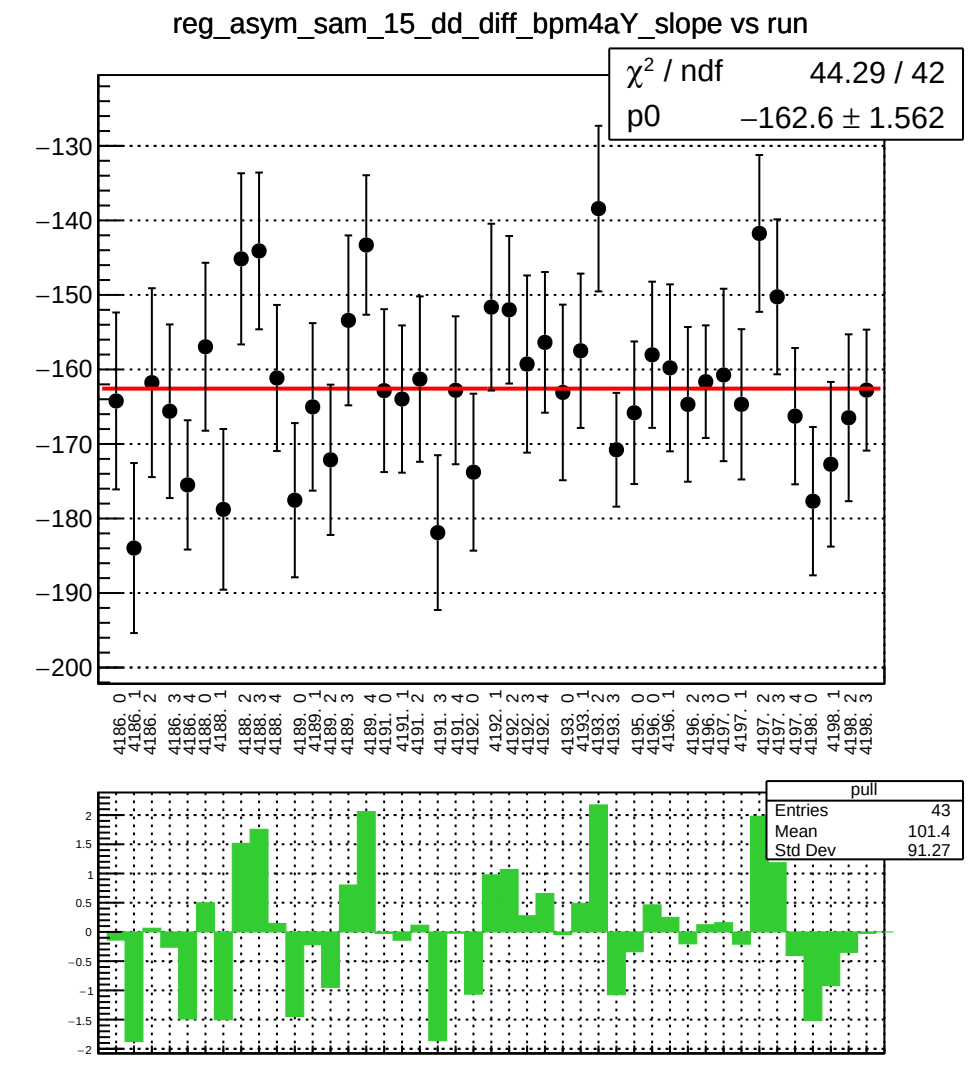
reg_asym_sam_15_avg_diff_bpm11X_slope vs run

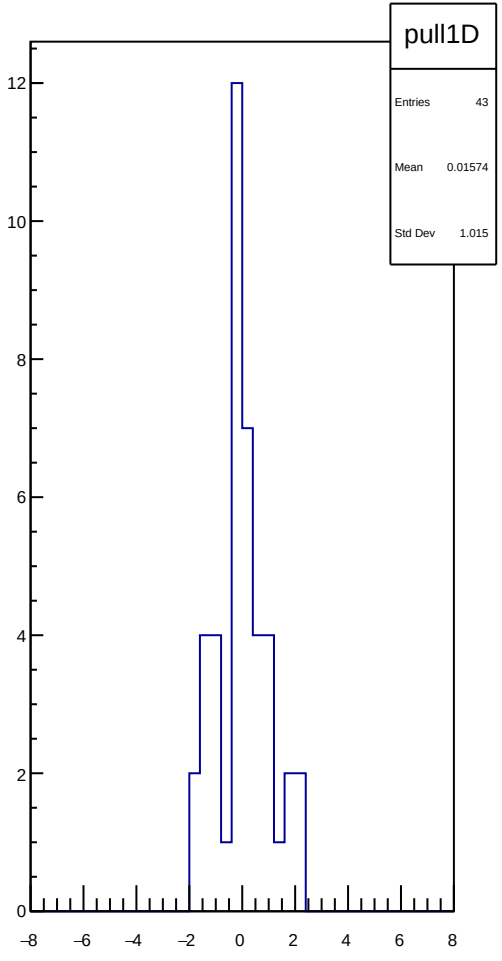


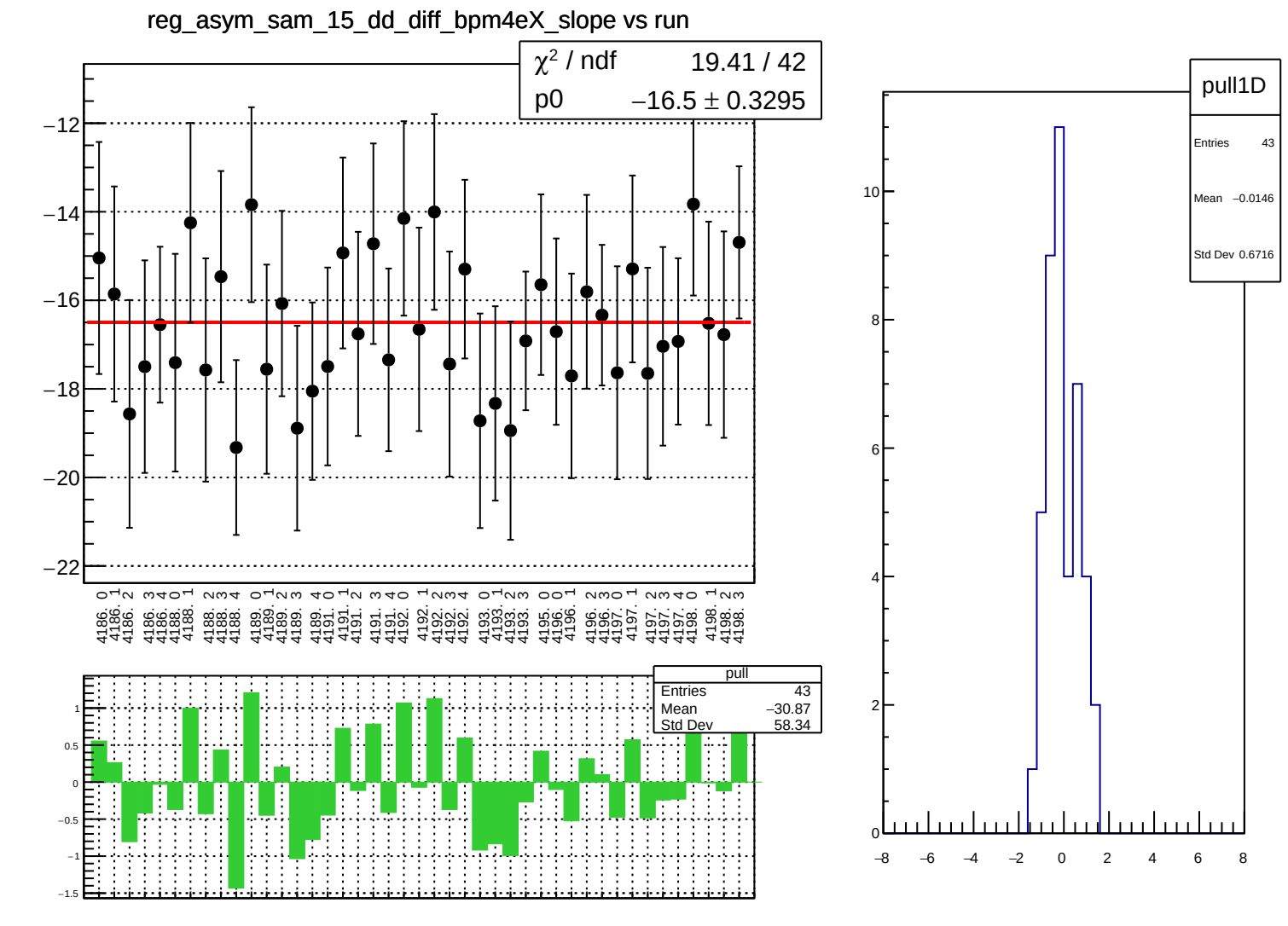


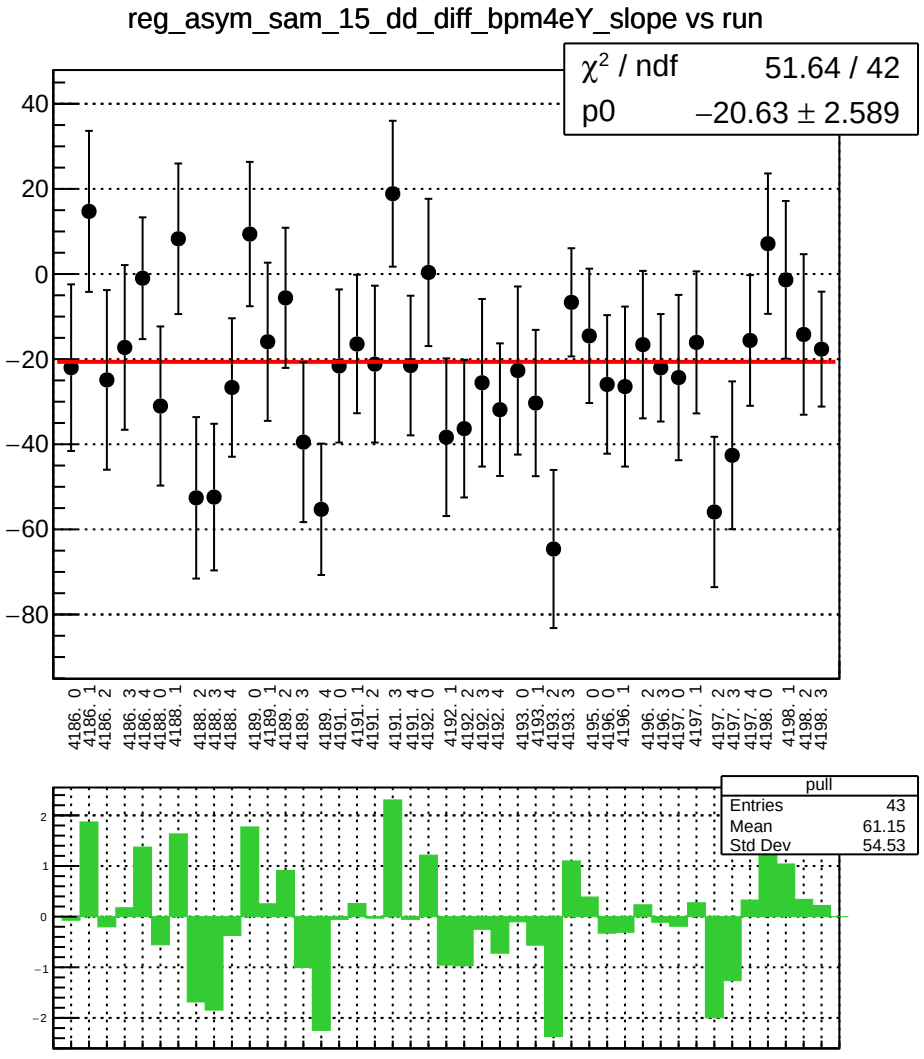


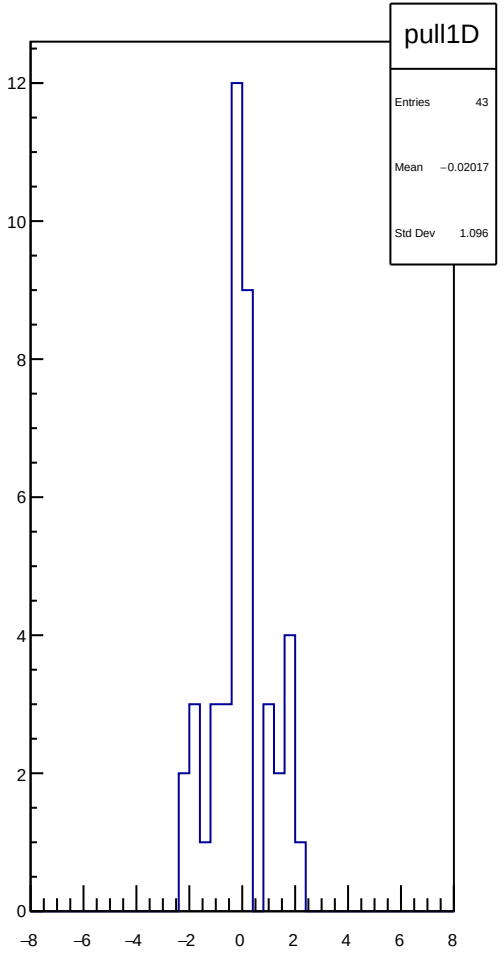

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.662 / 42
p0 −0.9567 ± 1.96
pull
Entries 43
Mean −155.9
Std Dev 176.9
pull1D
Entries 43
Mean 0.008442
Std Dev 0.3628

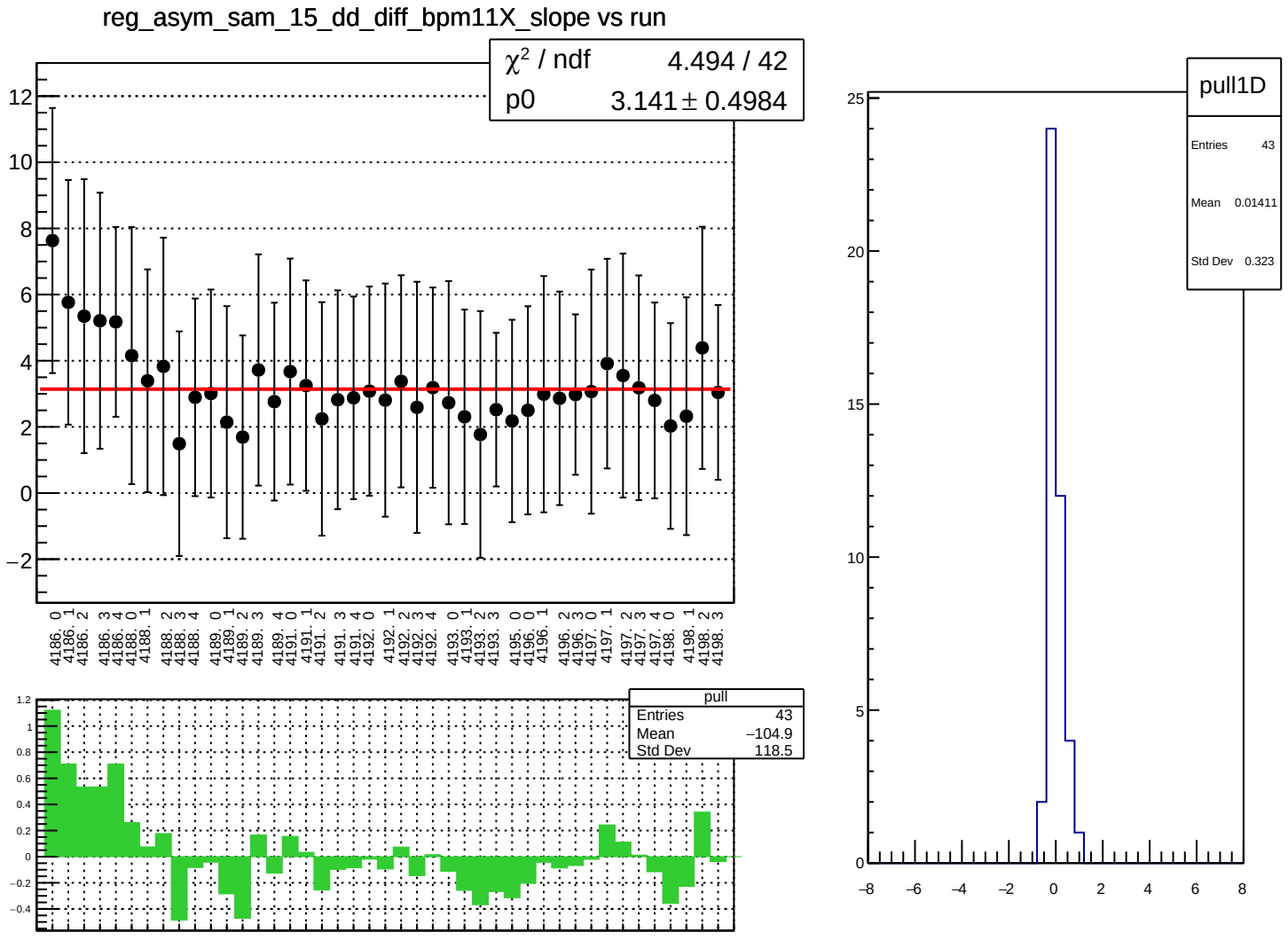

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.29 / 42
p0 −162.6 ± 1.562
pull
Entries 43
Mean 101.4
Std Dev 91.27

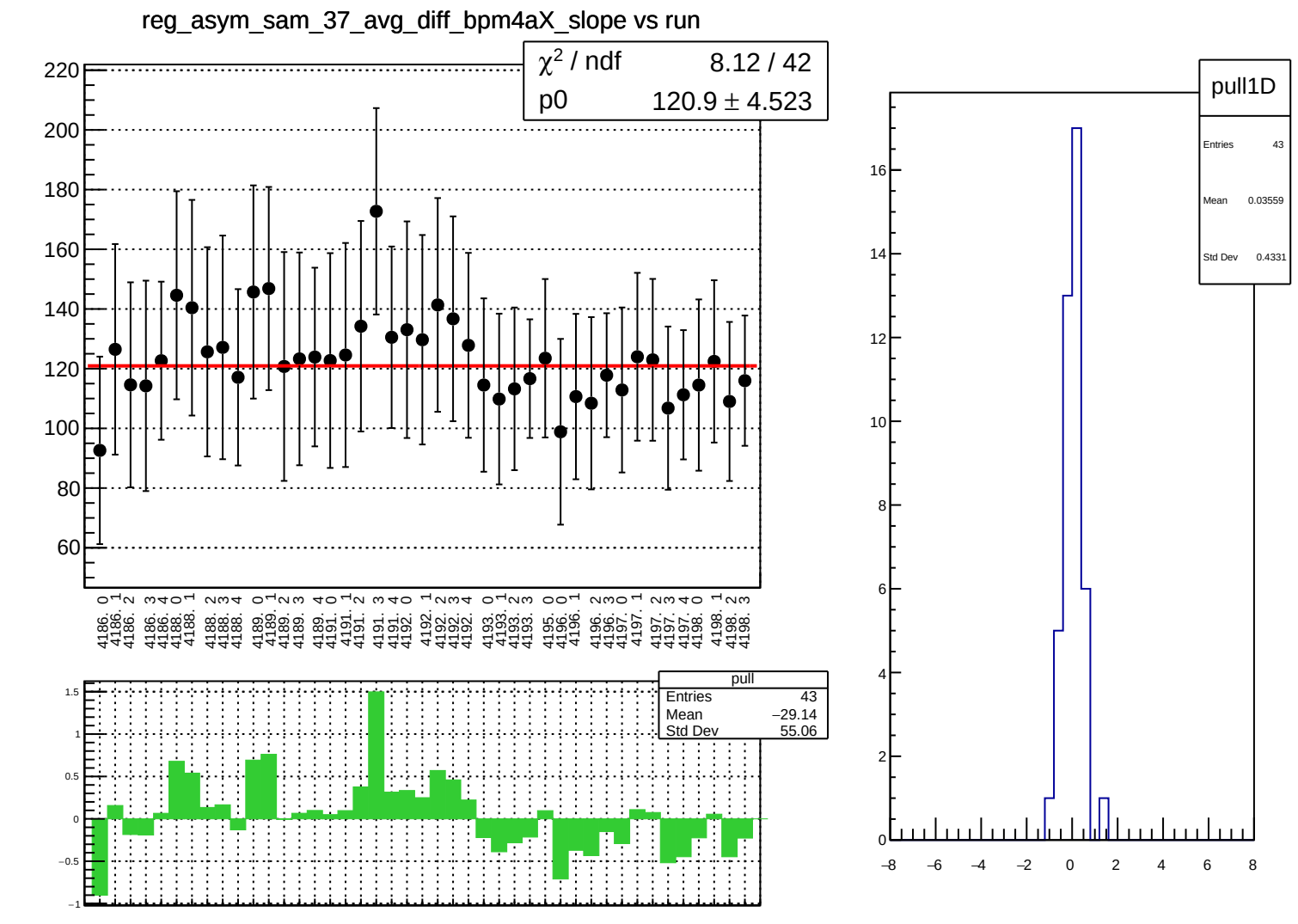

pull1D
Entries 43
Mean 0.01574
Std Dev 1.015

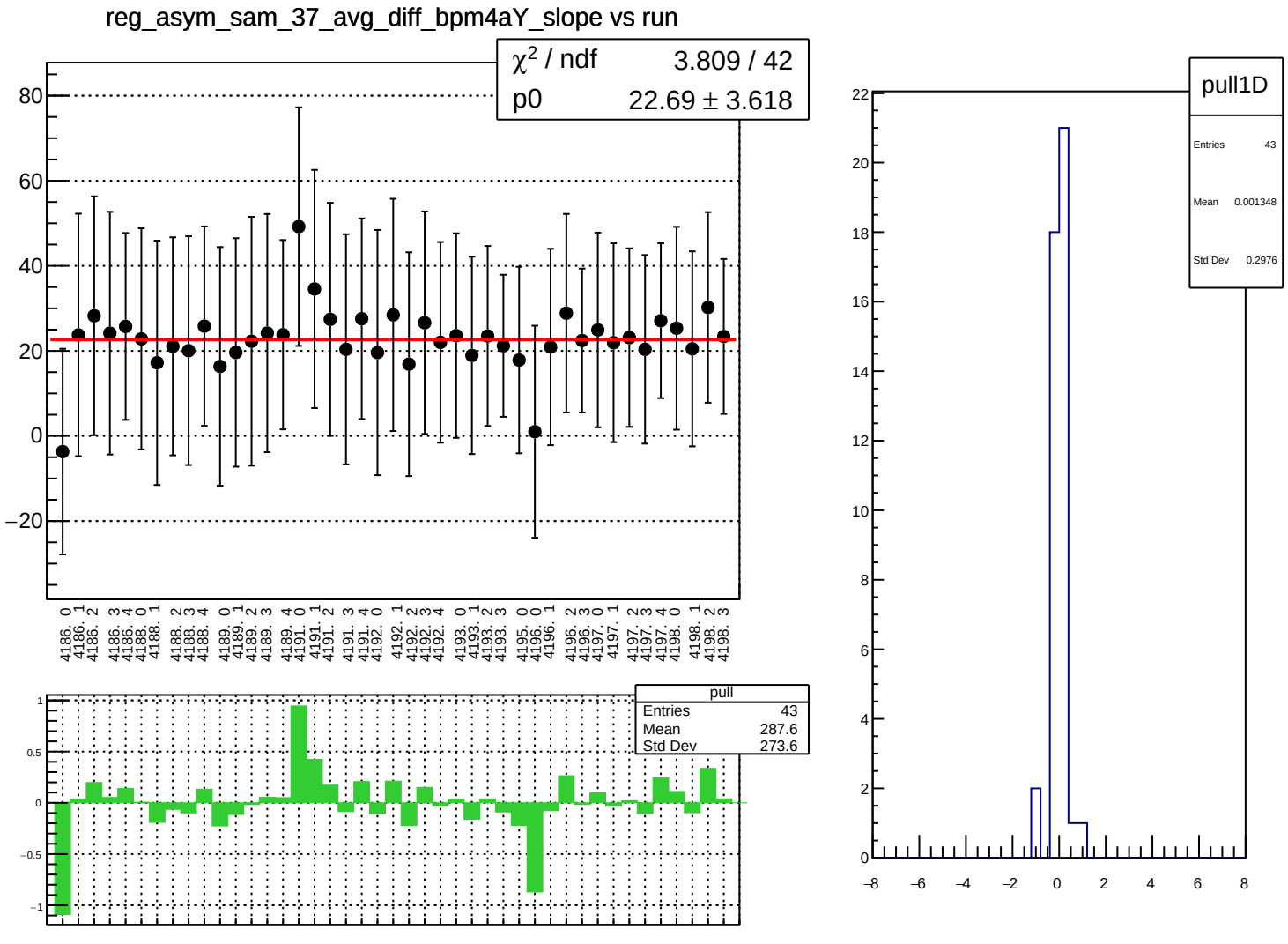

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.41 / 42
p0 −16.5 ± 0.3295
pull
Entries 43
Mean −30.87
Std Dev 58.34
pull1D
Entries 43
Mean −0.0146
Std Dev 0.6716

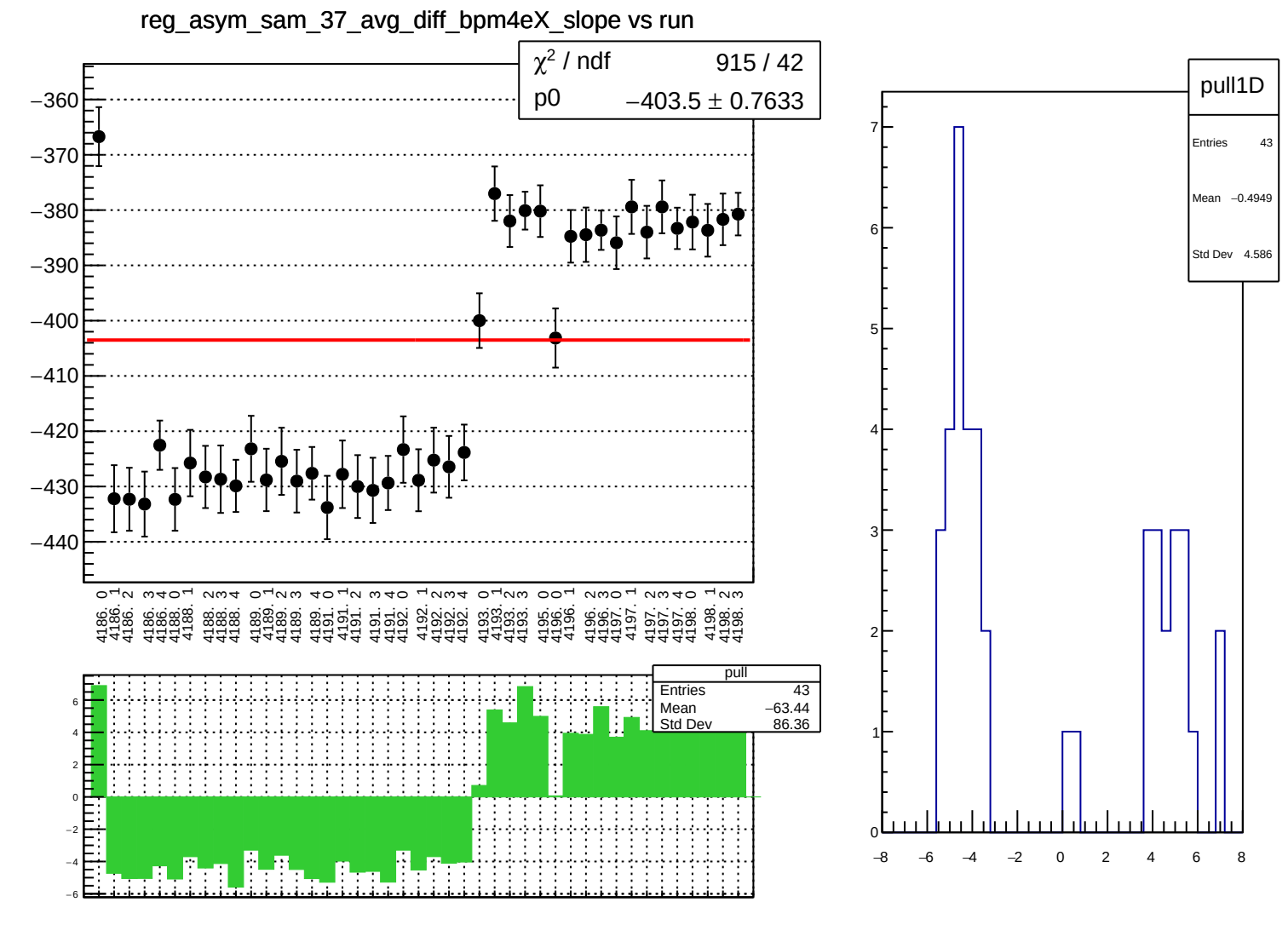

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.64 / 42
p0 −20.63 ± 2.589
pull
Entries 43
Mean 61.15
Std Dev 54.53

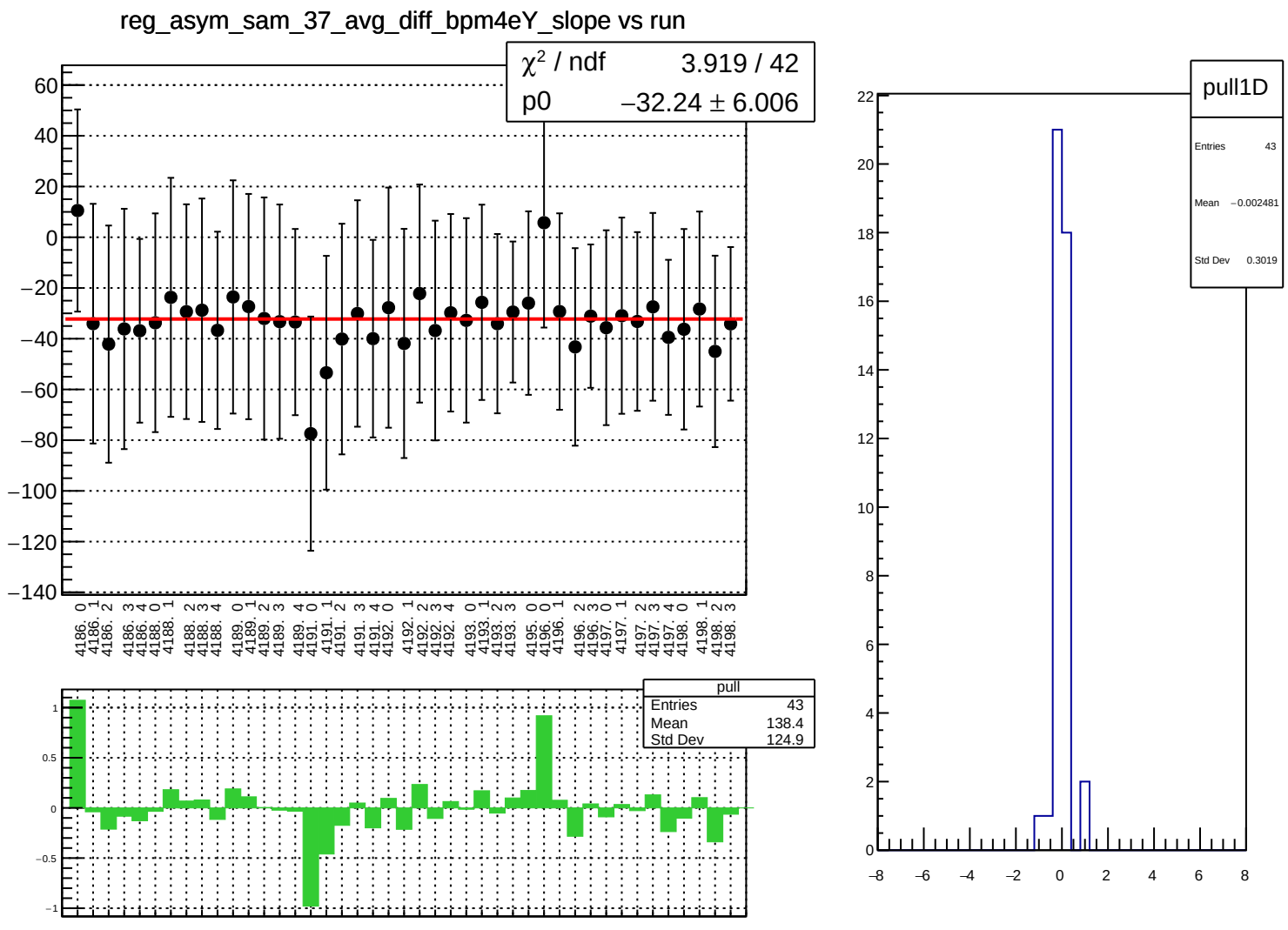

pull1D
Entries 43
Mean −0.02017
Std Dev 1.096

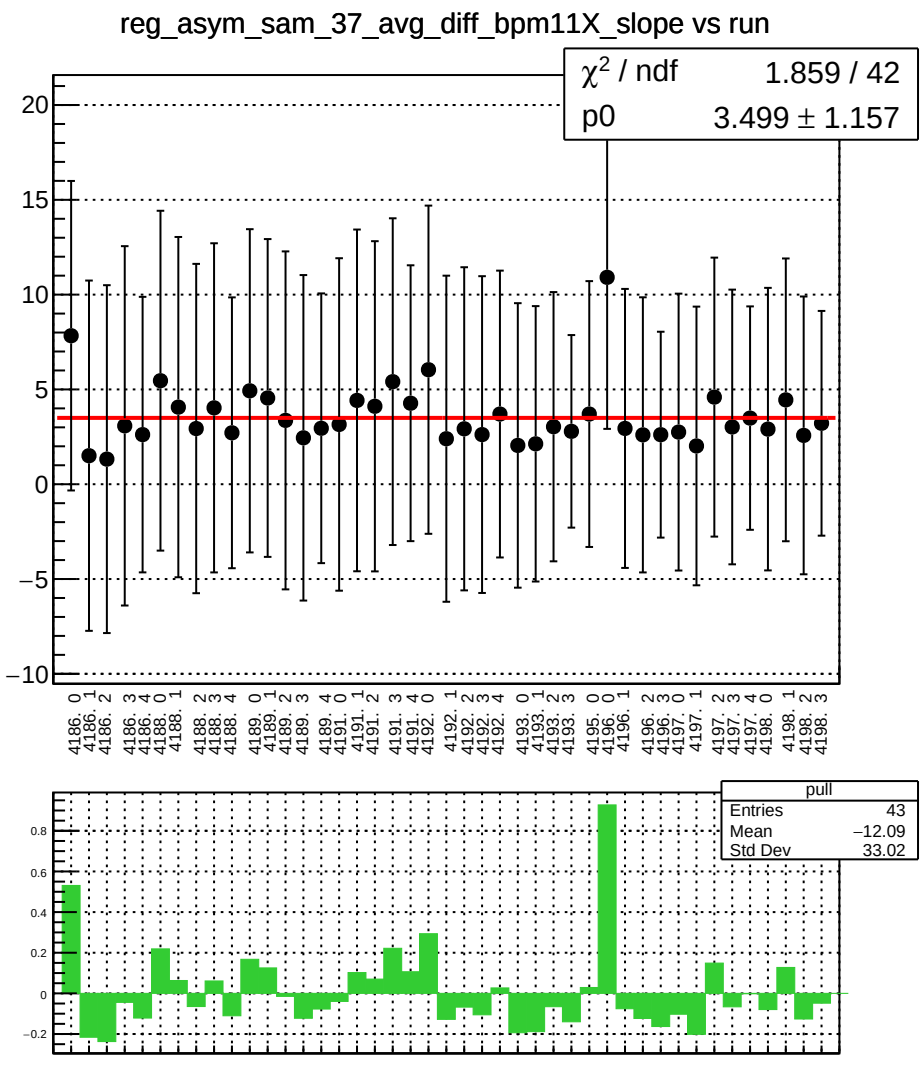

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 4.494 / 42
p0 3.141 ± 0.4984
pull
Entries 43
Mean −104.9
Std Dev 118.5
pull1D
Entries 43
Mean 0.01411
Std Dev 0.323

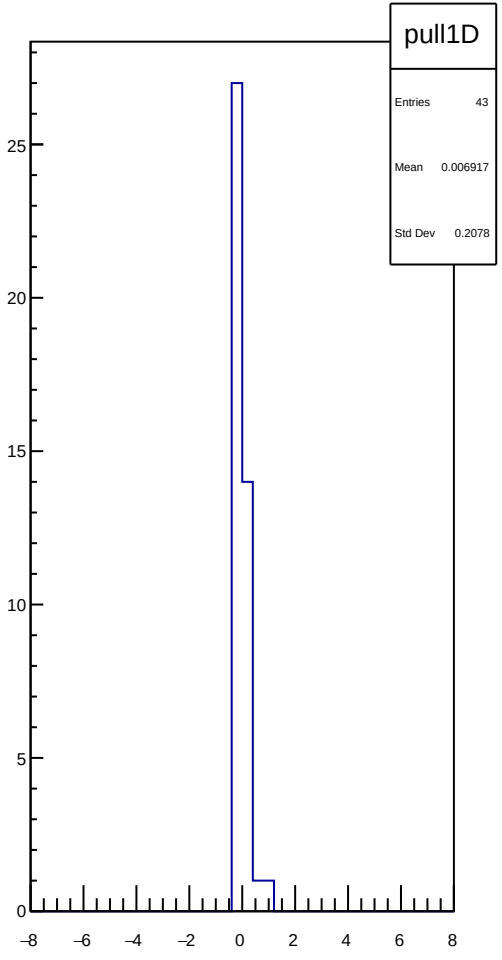

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.12 / 42
p0 120.9 ± 4.523
pull
Entries 43
Mean −29.14
Std Dev 55.06
pull1D
Entries 43
Mean 0.03559
Std Dev 0.4331

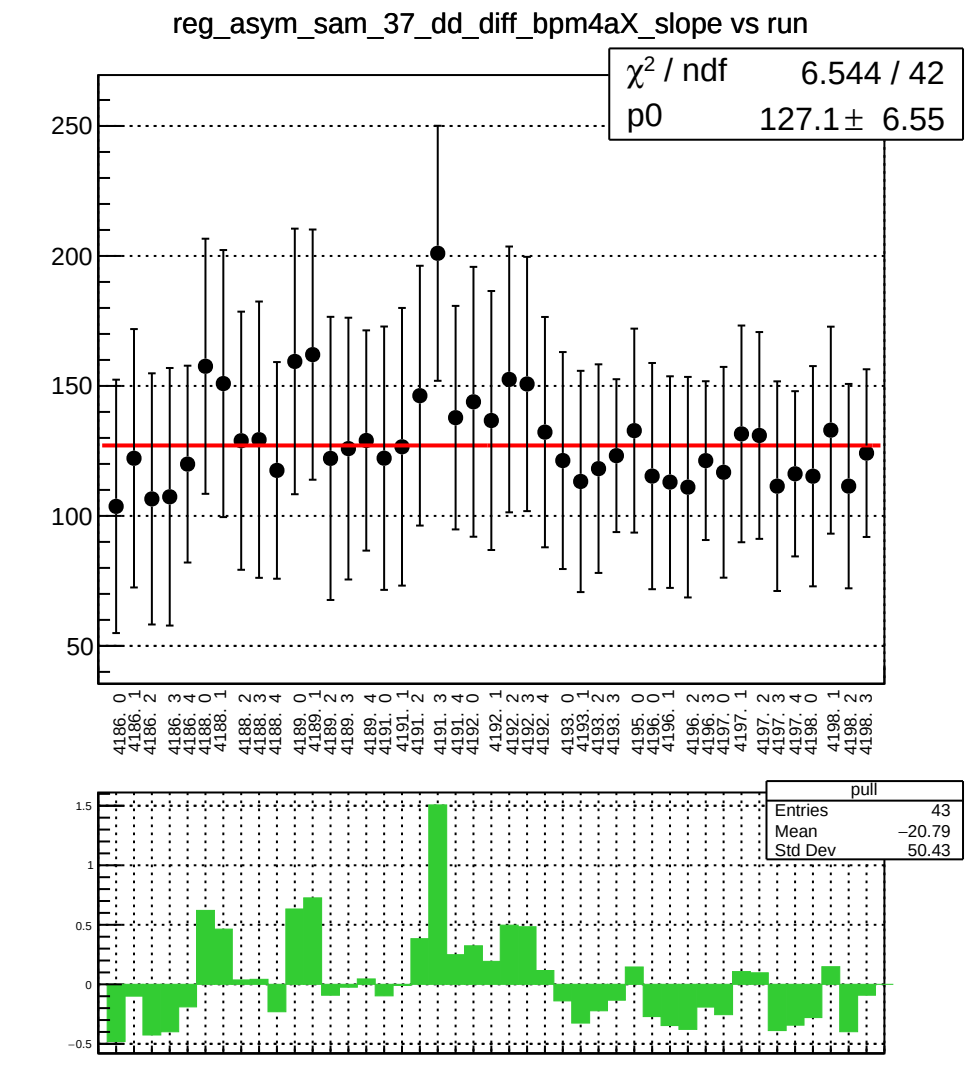

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.809 / 42
p0 22.69 ± 3.618
80
60
40
20
0
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 287.6
Std Dev 273.6
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.001348
Std Dev 0.2976
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

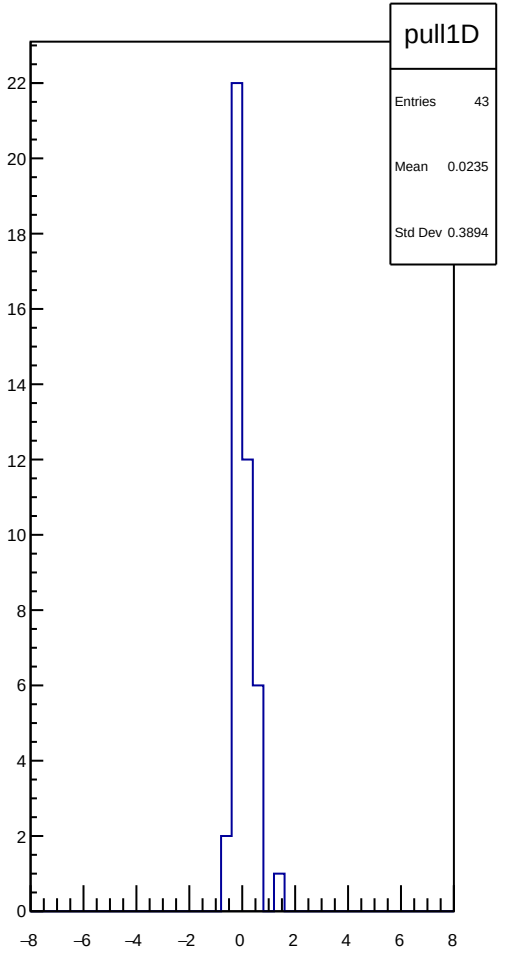

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 915 / 42
p0 −403.5 ± 0.7633
pull
Entries 43
Mean −63.44
Std Dev 86.36
pull1D
Entries 43
Mean −0.4949
Std Dev 4.586

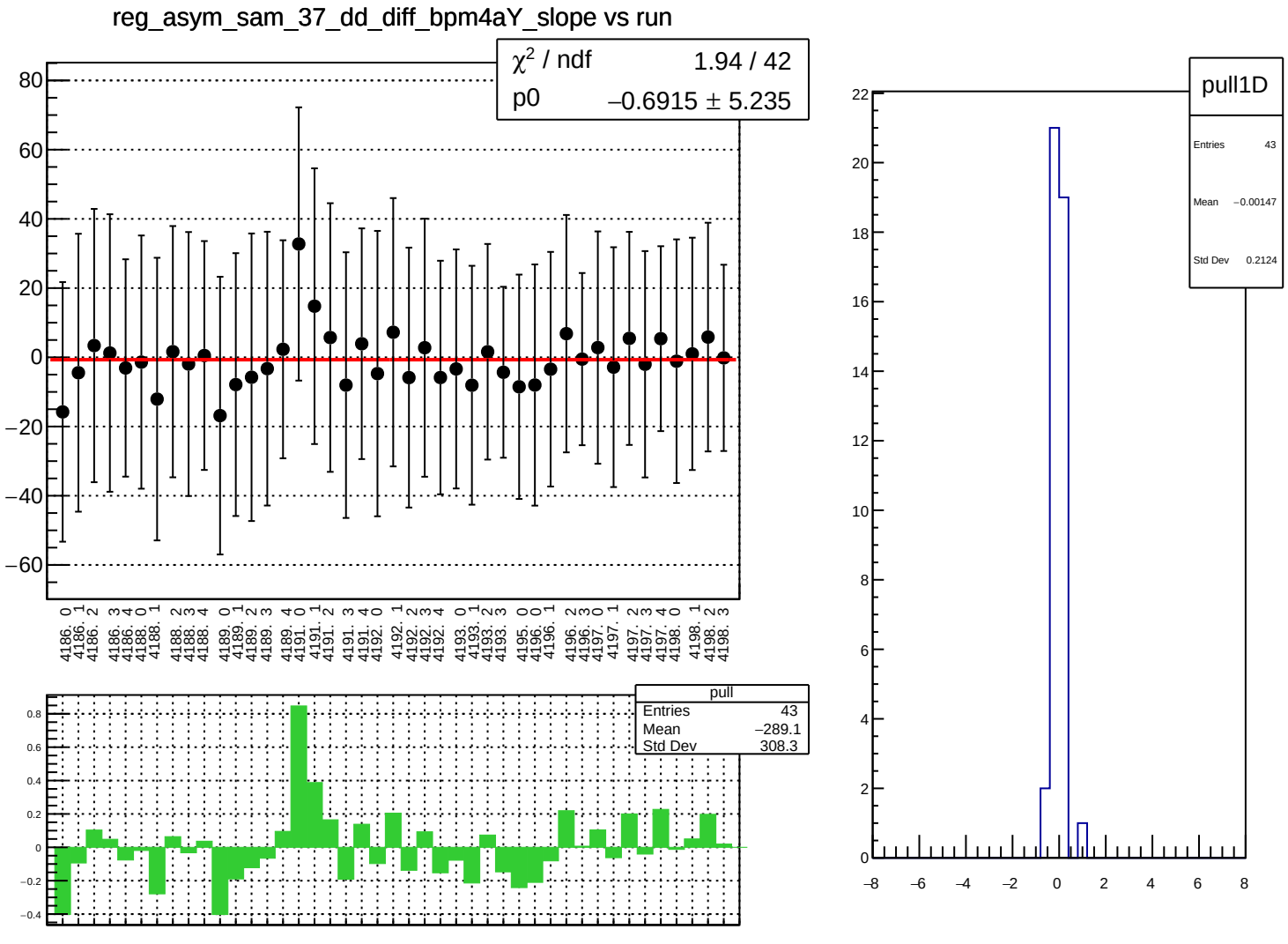

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.919 / 42
p0 −32.24 ± 6.006
pull
Entries 43
Mean 138.4
Std Dev 124.9
pull1D
Entries 43
Mean −0.002481
Std Dev 0.3019

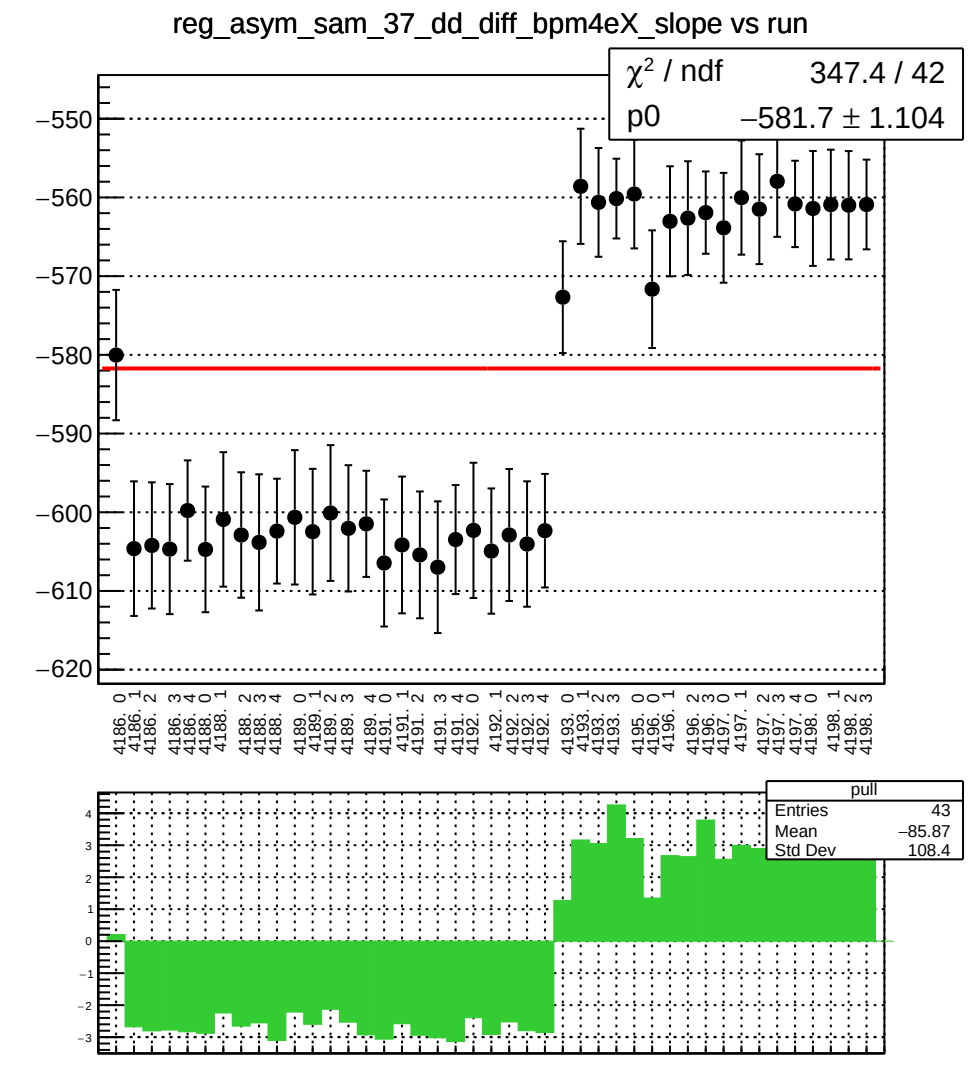

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 1.859 / 42
p0 3.499 ± 1.157
pull
Entries 43
Mean −12.09
Std Dev 33.02

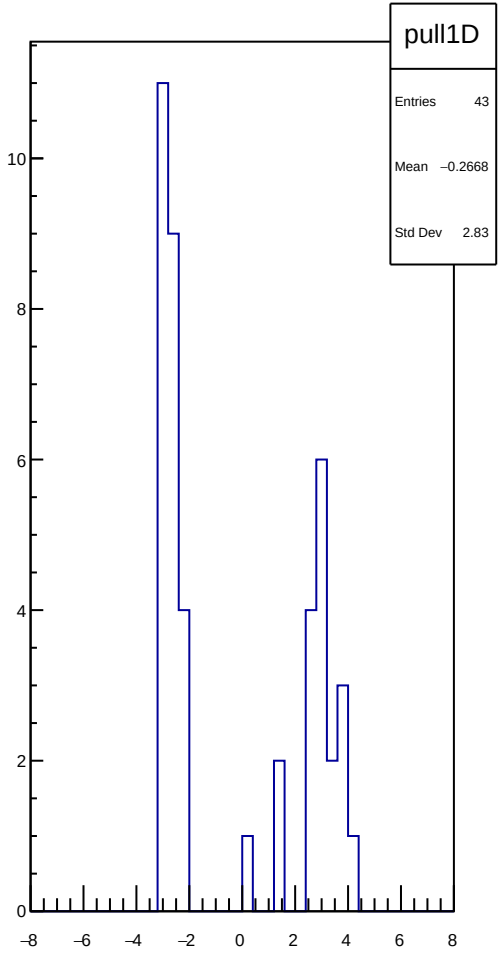

pull1D
Entries 43
Mean 0.006917
Std Dev 0.2078

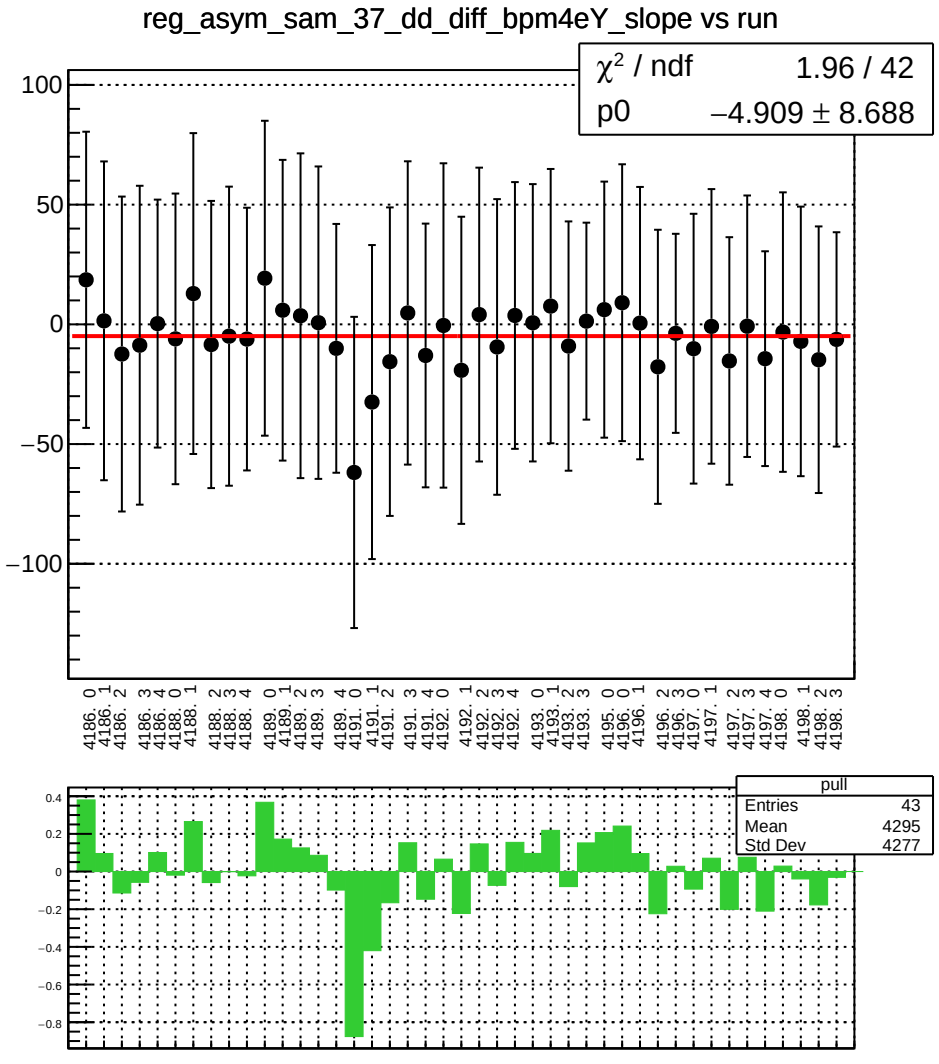

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.544 / 42
p0 127.1 ± 6.55
250
200
150
100
50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −20.79
Std Dev 50.43
1.5
1
0.5
0
−0.5

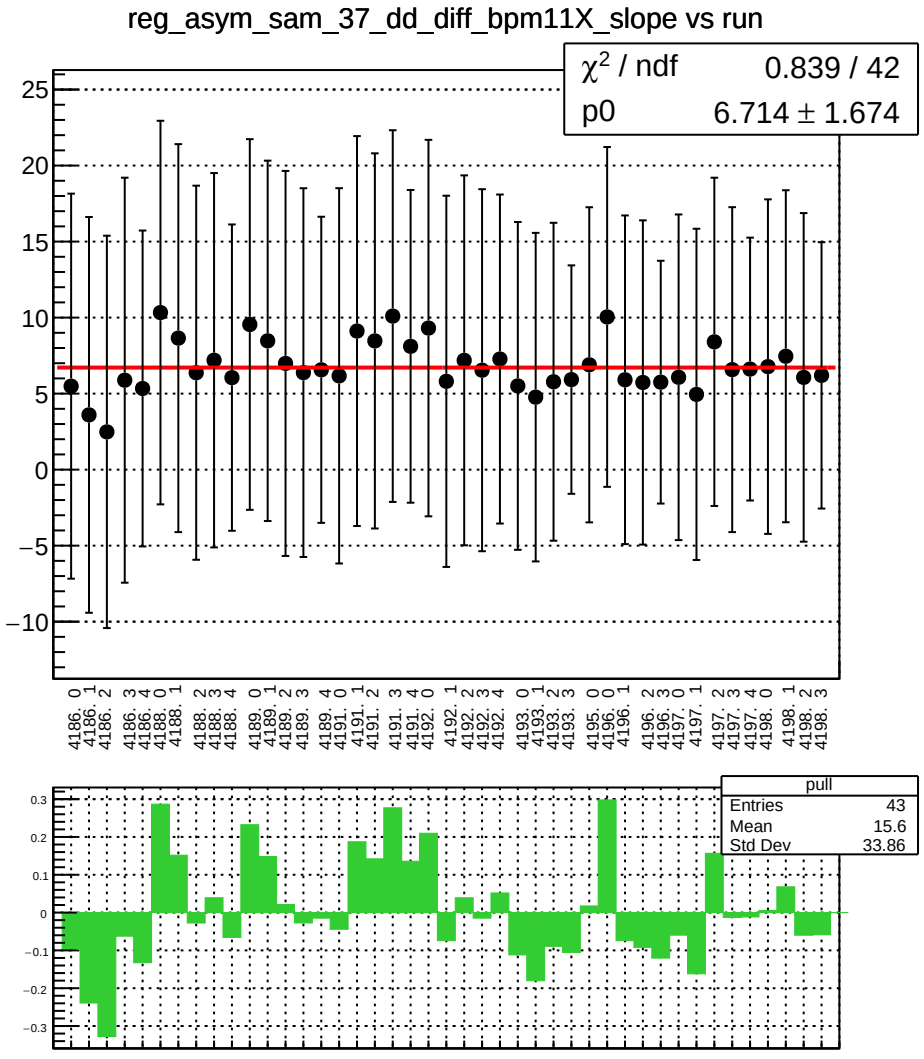

pull1D
Entries 43
Mean 0.0235
Std Dev 0.3894
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

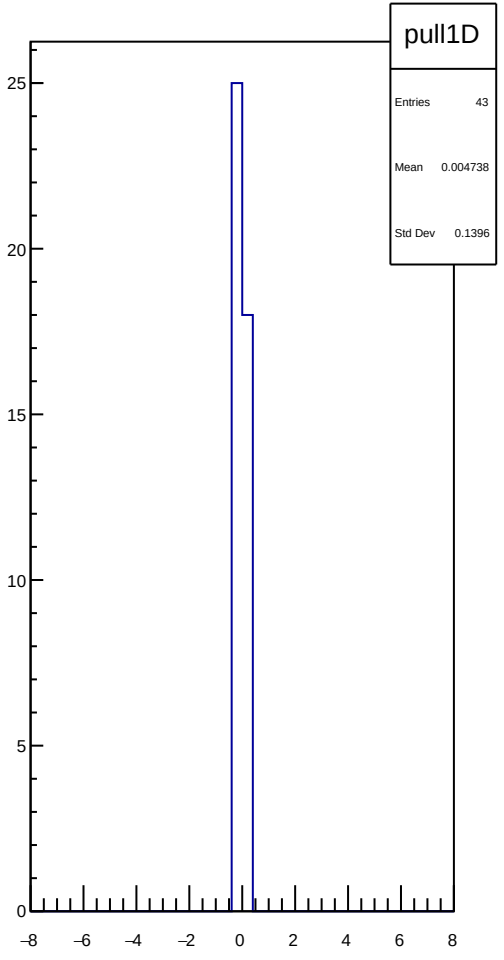

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.94 / 42
p0 −0.6915 ± 5.235
pull
Entries 43
Mean −289.1
Std Dev 308.3
pull1D
Entries 43
Mean −0.00147
Std Dev 0.2124

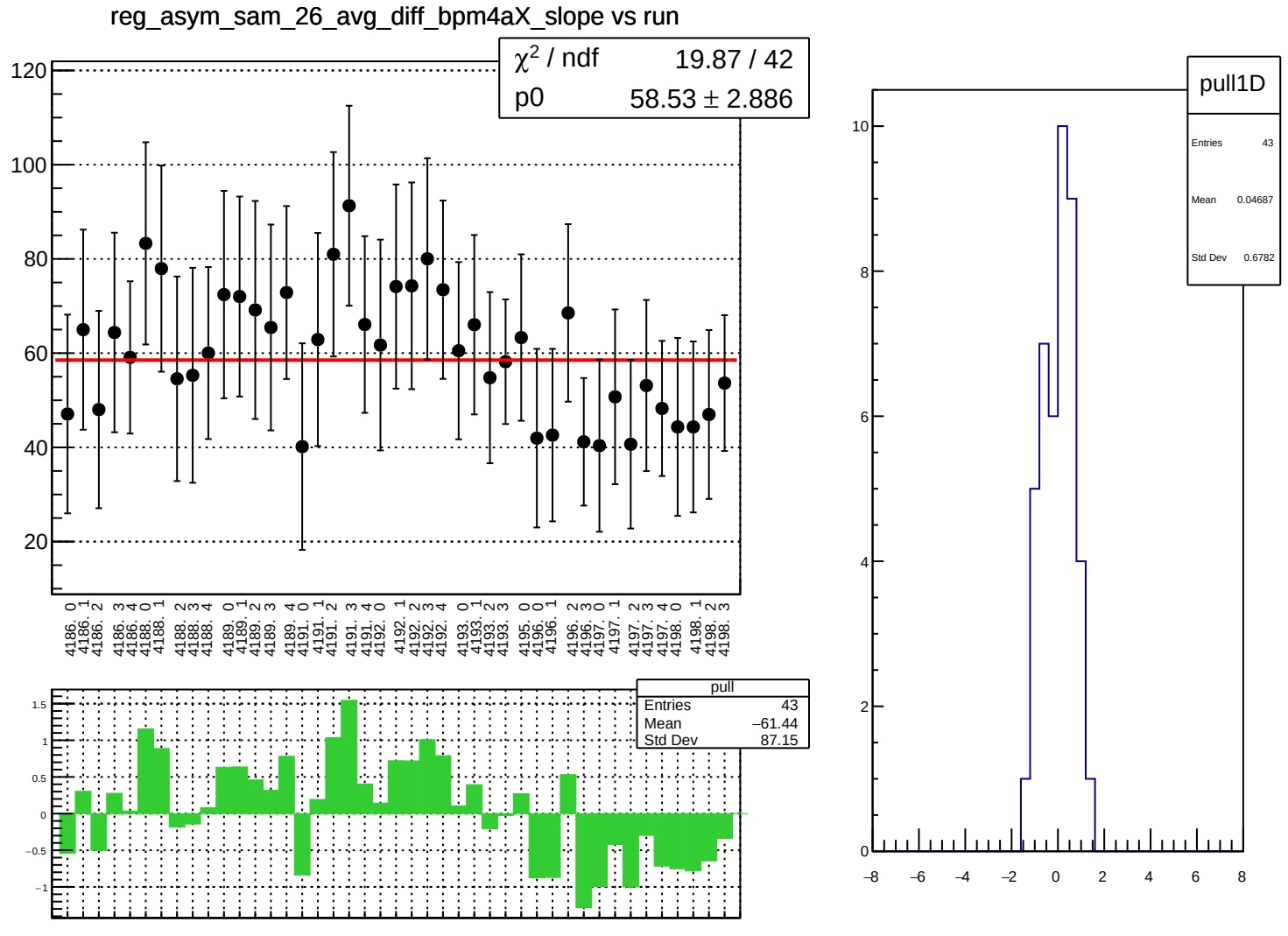

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 347.4 / 42
p0 −581.7 ± 1.104
pull
Entries 43
Mean −85.87
Std Dev 108.4

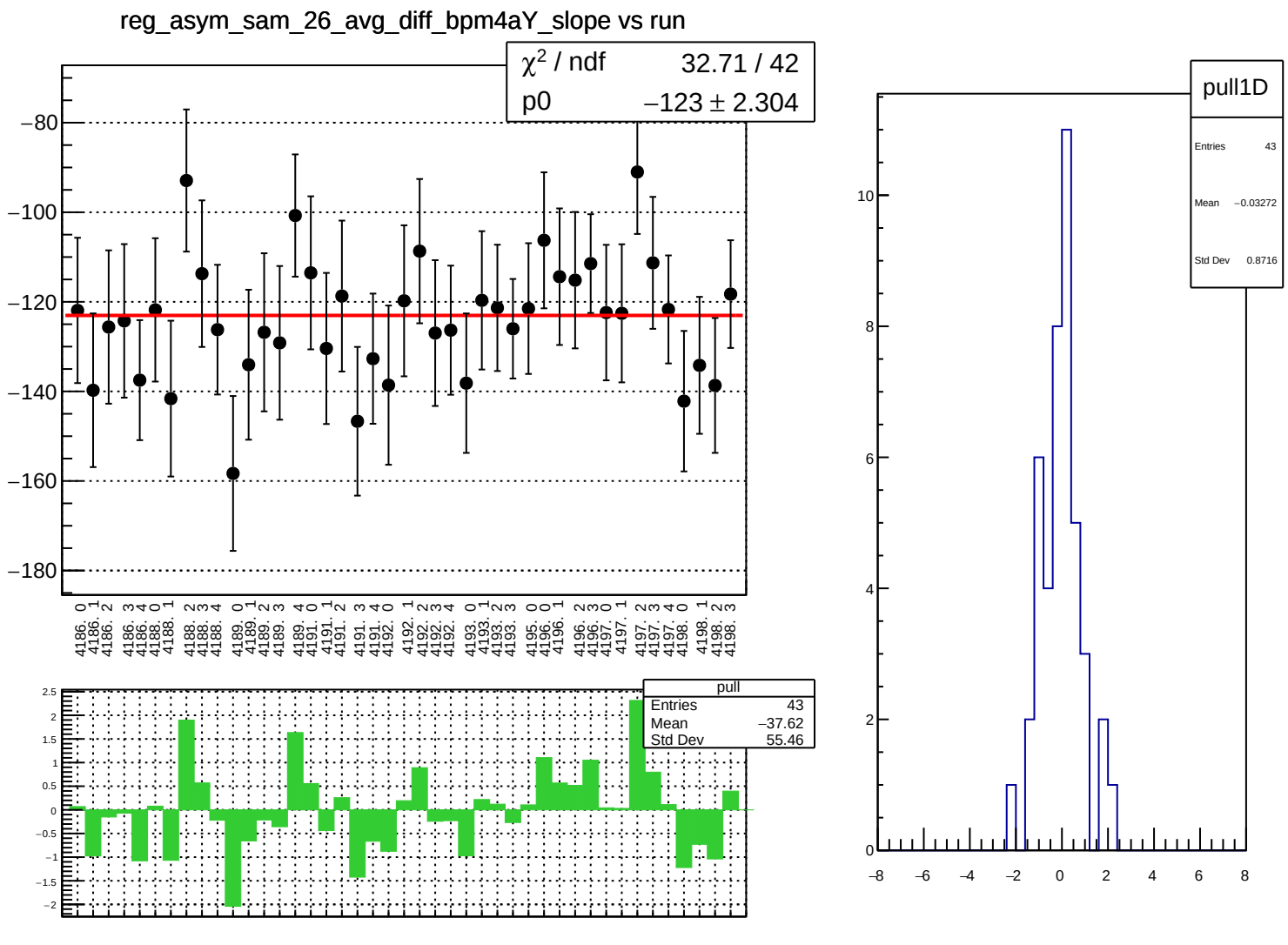

pull1D
Entries 43
Mean −0.2668
Std Dev 2.83

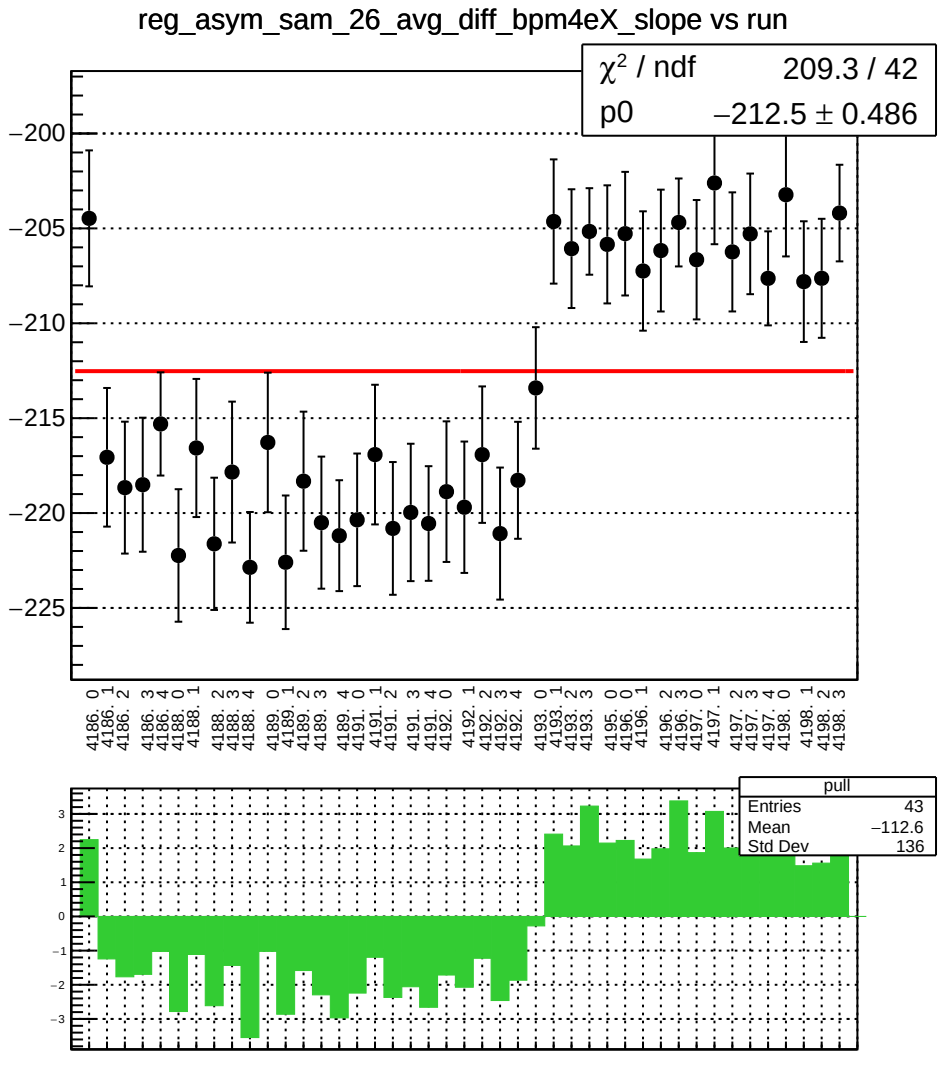

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.96 / 42
p0 −4.909 ± 8.688
100
50
0
−50
−100
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 4295
Std Dev 4277
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −8.132e−05
Std Dev 0.2135
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

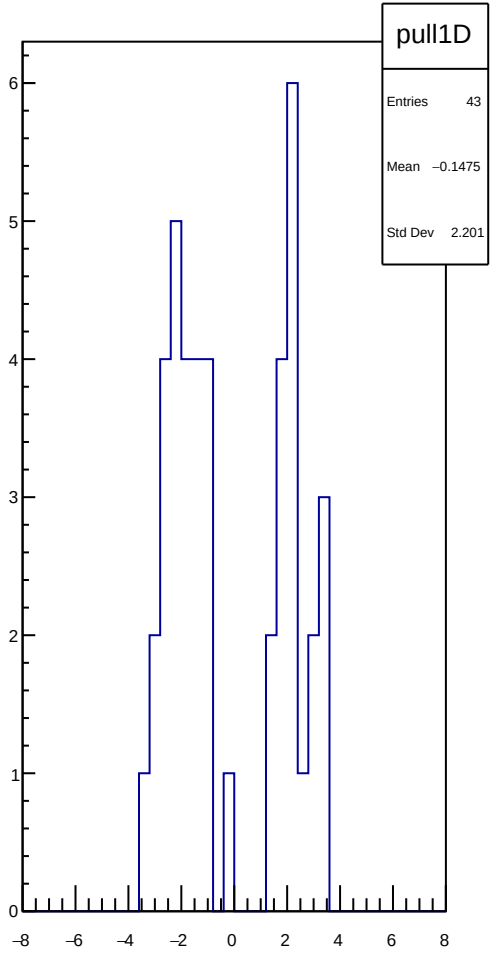

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.839 / 42
p0 6.714 ± 1.674
pull
Entries 43
Mean 15.6
Std Dev 33.86

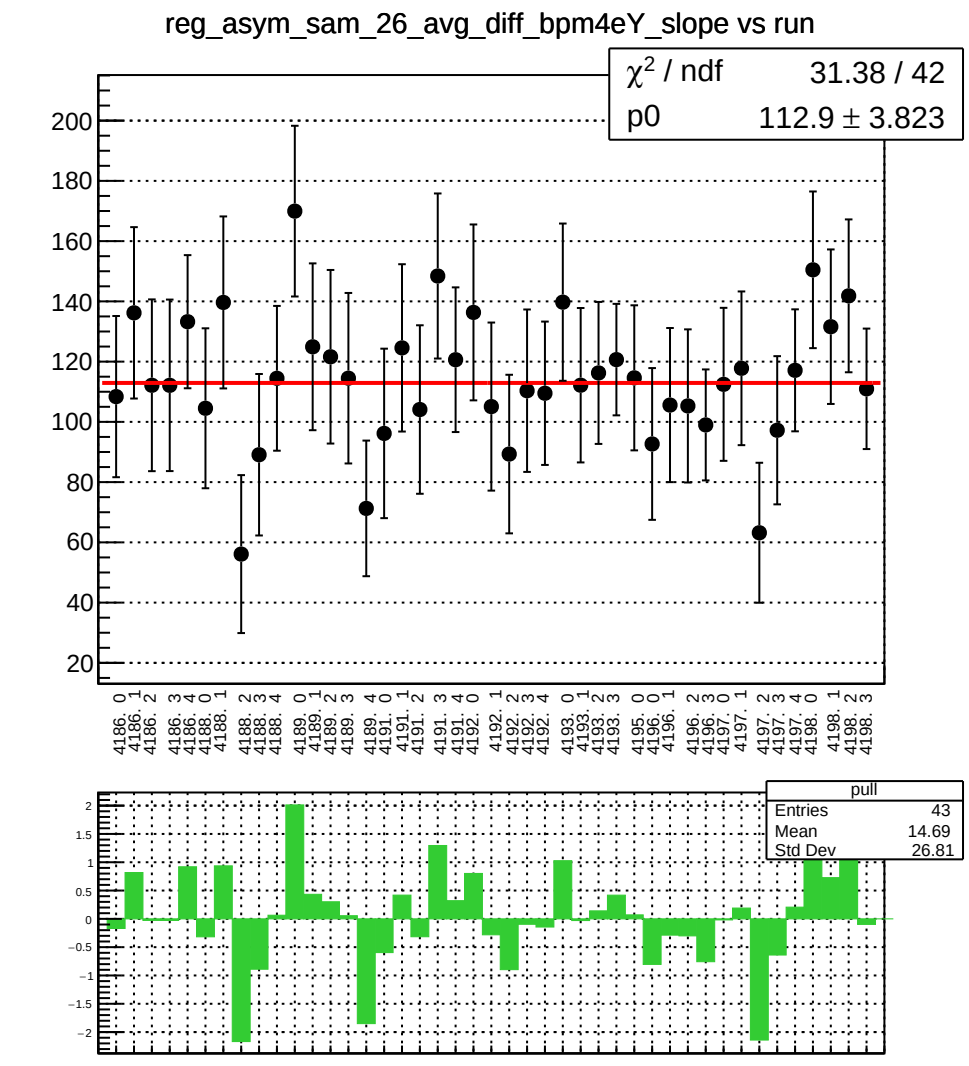

pull1D
Entries 43
Mean 0.004738
Std Dev 0.1396

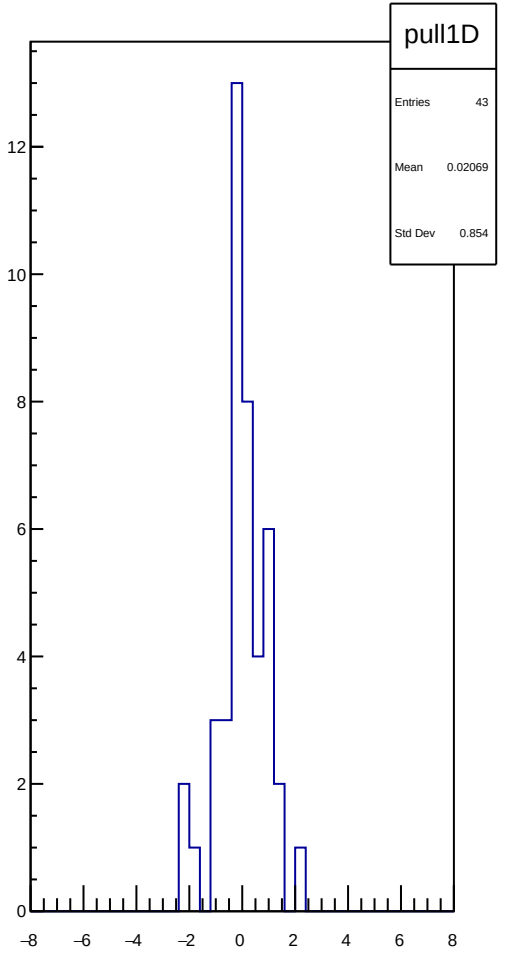

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.87 / 42
p0 58.53 ± 2.886
120
100
80
60
40
20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −61.44
Std Dev 87.15
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.04687
Std Dev 0.6782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

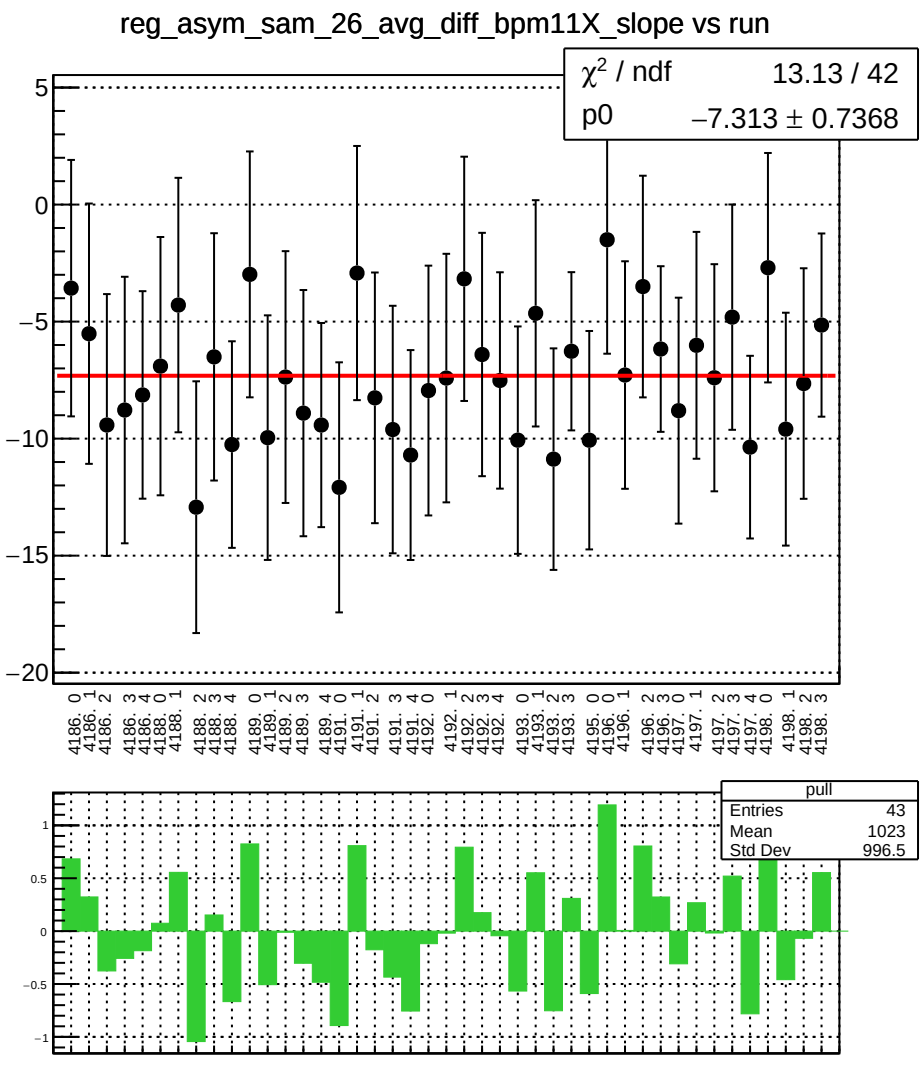

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.71 / 42
p0 −123 ± 2.304
−80
−100
−120
−140
−160
−180
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −37.62
Std Dev 55.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03272
Std Dev 0.8716
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

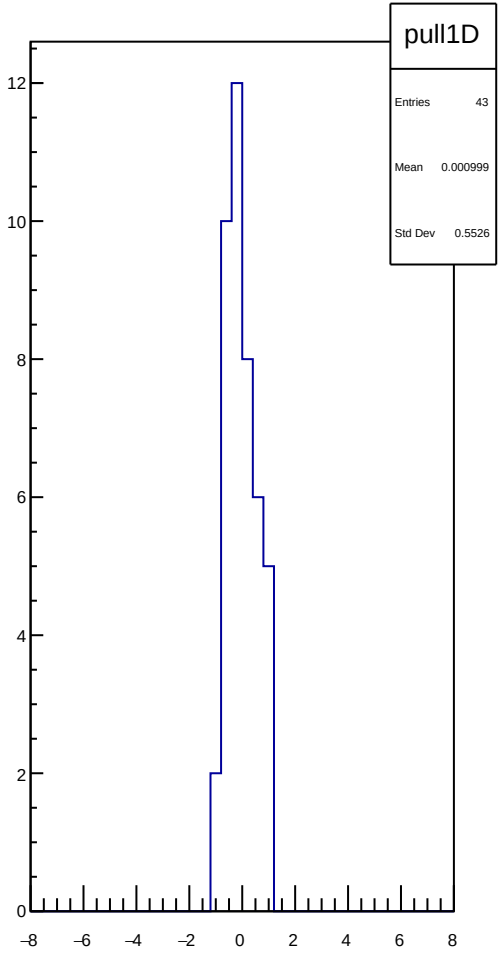

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 209.3 / 42
p0 −212.5 ± 0.486
pull
Entries 43
Mean −112.6
Std Dev 136

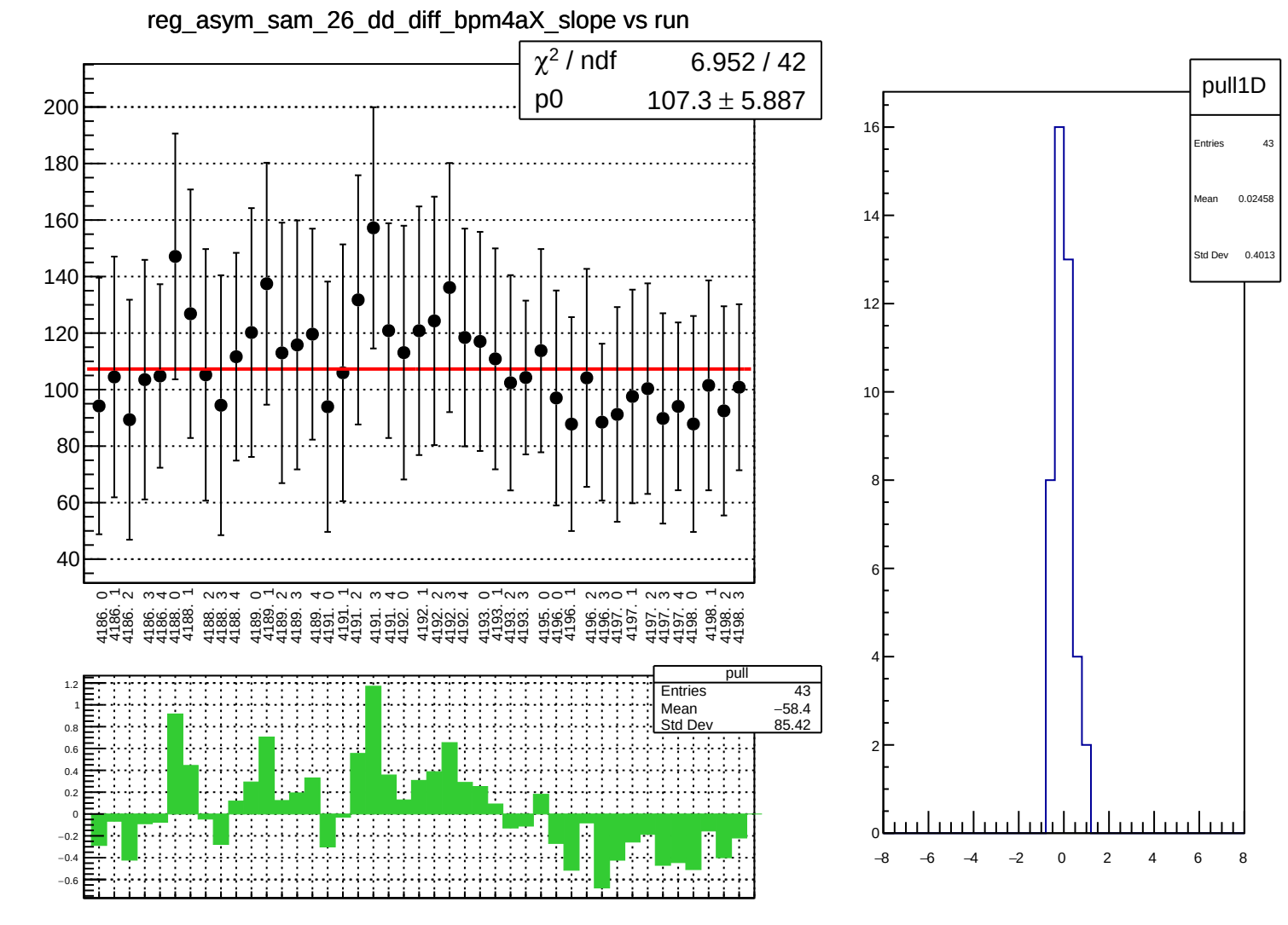

pull1D
Entries 43
Mean −0.1475
Std Dev 2.201

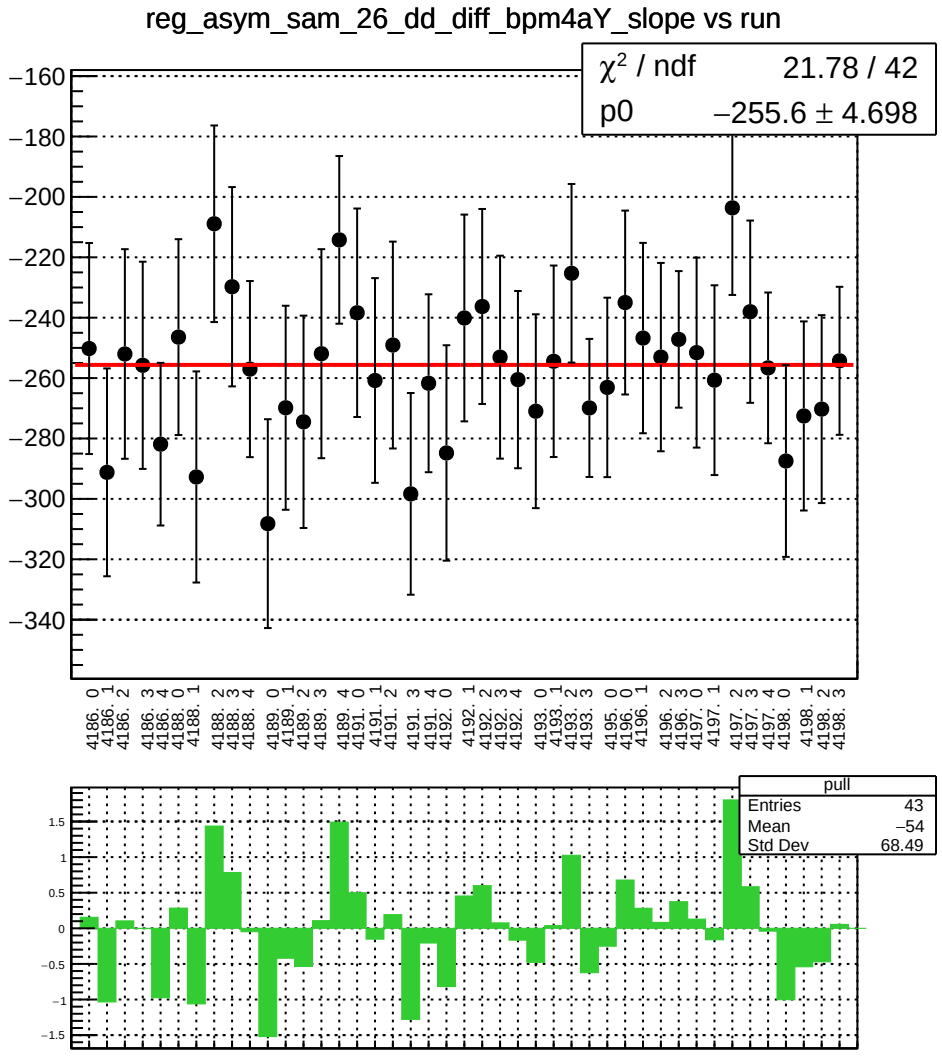

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.38 / 42
p0 112.9 ± 3.823
200
180
160
140
120
100
80
60
40
20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 14.69
Std Dev 26.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

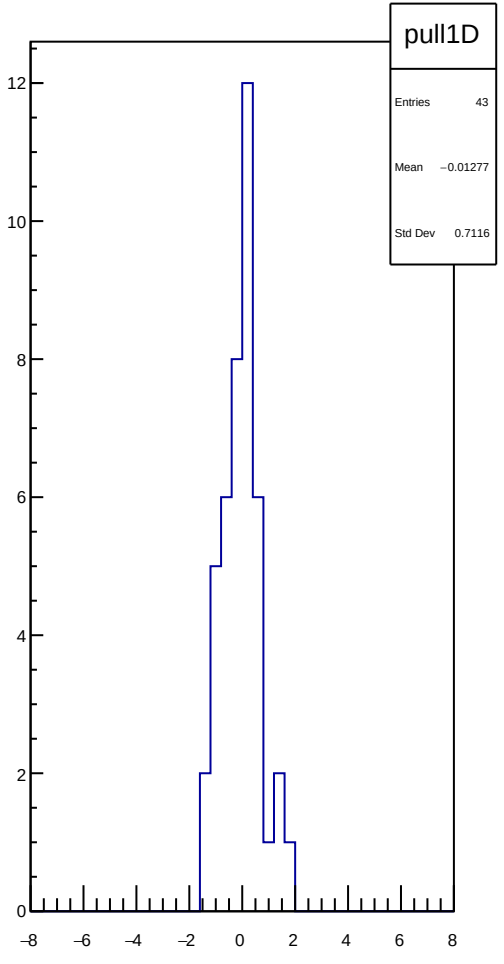

pull1D
Entries 43
Mean 0.02069
Std Dev 0.854
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

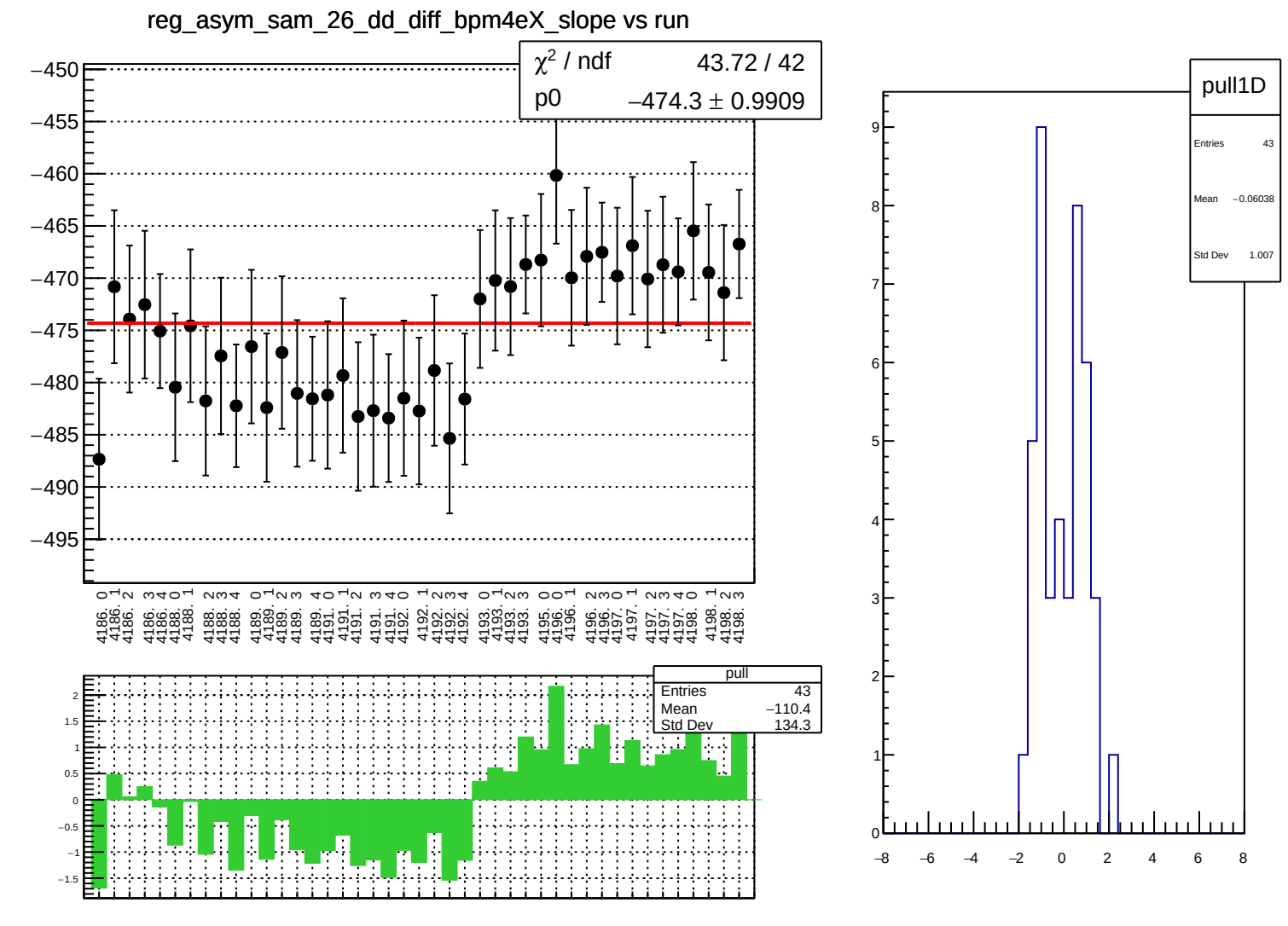

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 13.13 / 42
p0 −7.313 ± 0.7368
pull
Entries 43
Mean 1023
Std Dev 996.5

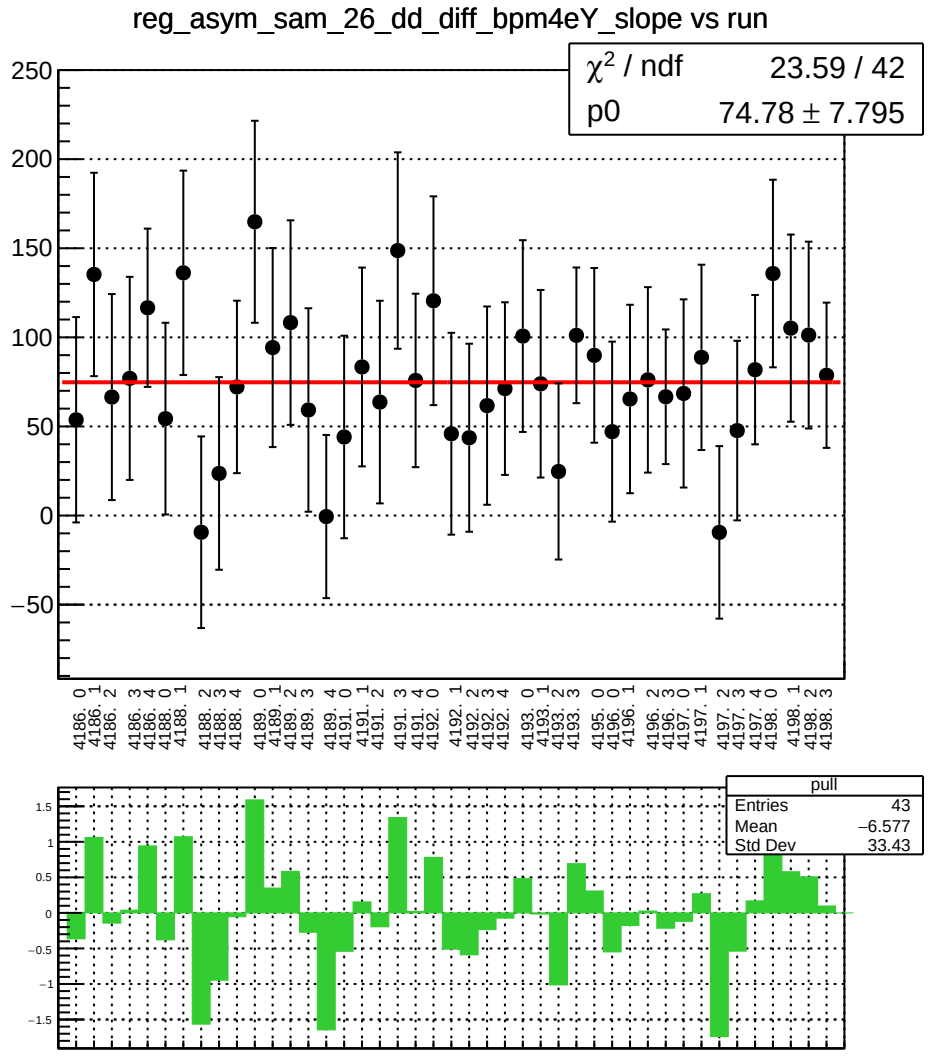

pull1D
Entries 43
Mean 0.000999
Std Dev 0.5526

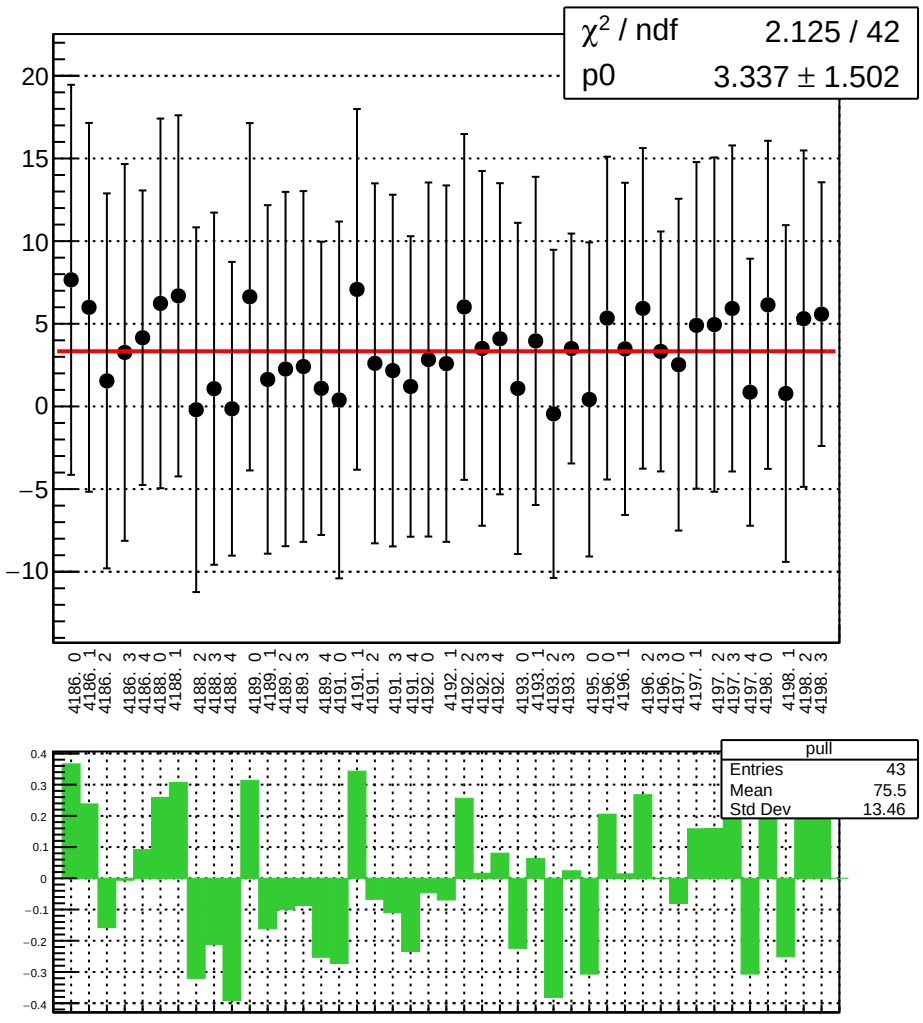

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.952 / 42
p0 107.3 ± 5.887
pull
Entries 43
Mean −58.4
Std Dev 85.42
pull1D
Entries 43
Mean 0.02458
Std Dev 0.4013

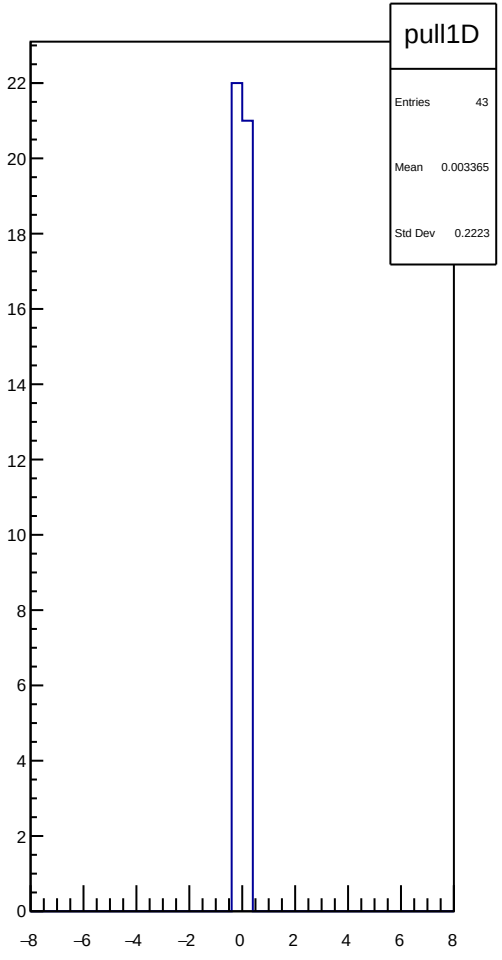

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.78 / 42
p0 −255.6 ± 4.698
pull
Entries 43
Mean −54
Std Dev 68.49

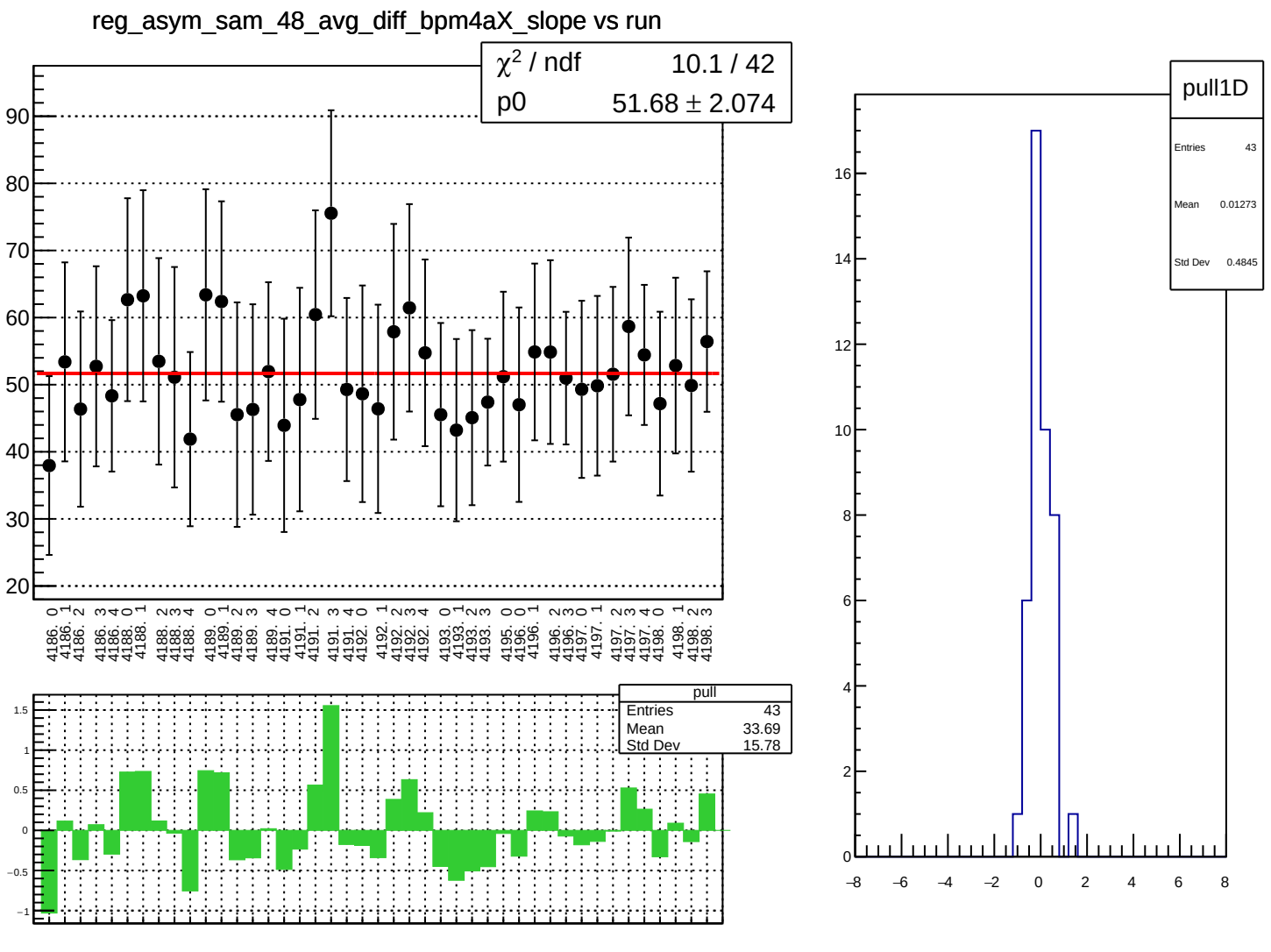

pull1D
Entries 43
Mean −0.01277
Std Dev 0.7116

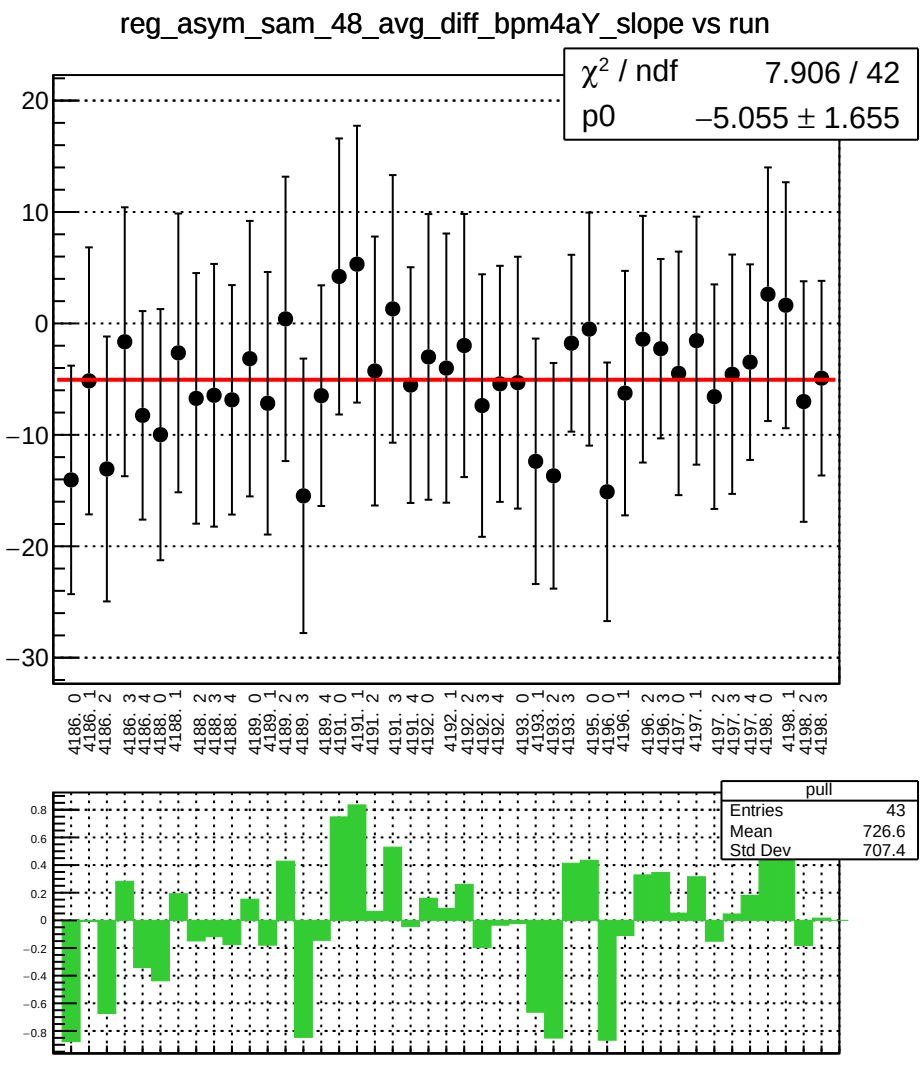

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.72 / 42
p0 −474.3 ± 0.9909
pull
Entries 43
Mean −110.4
Std Dev 134.3
pull1D
Entries 43
Mean −0.06038
Std Dev 1.007

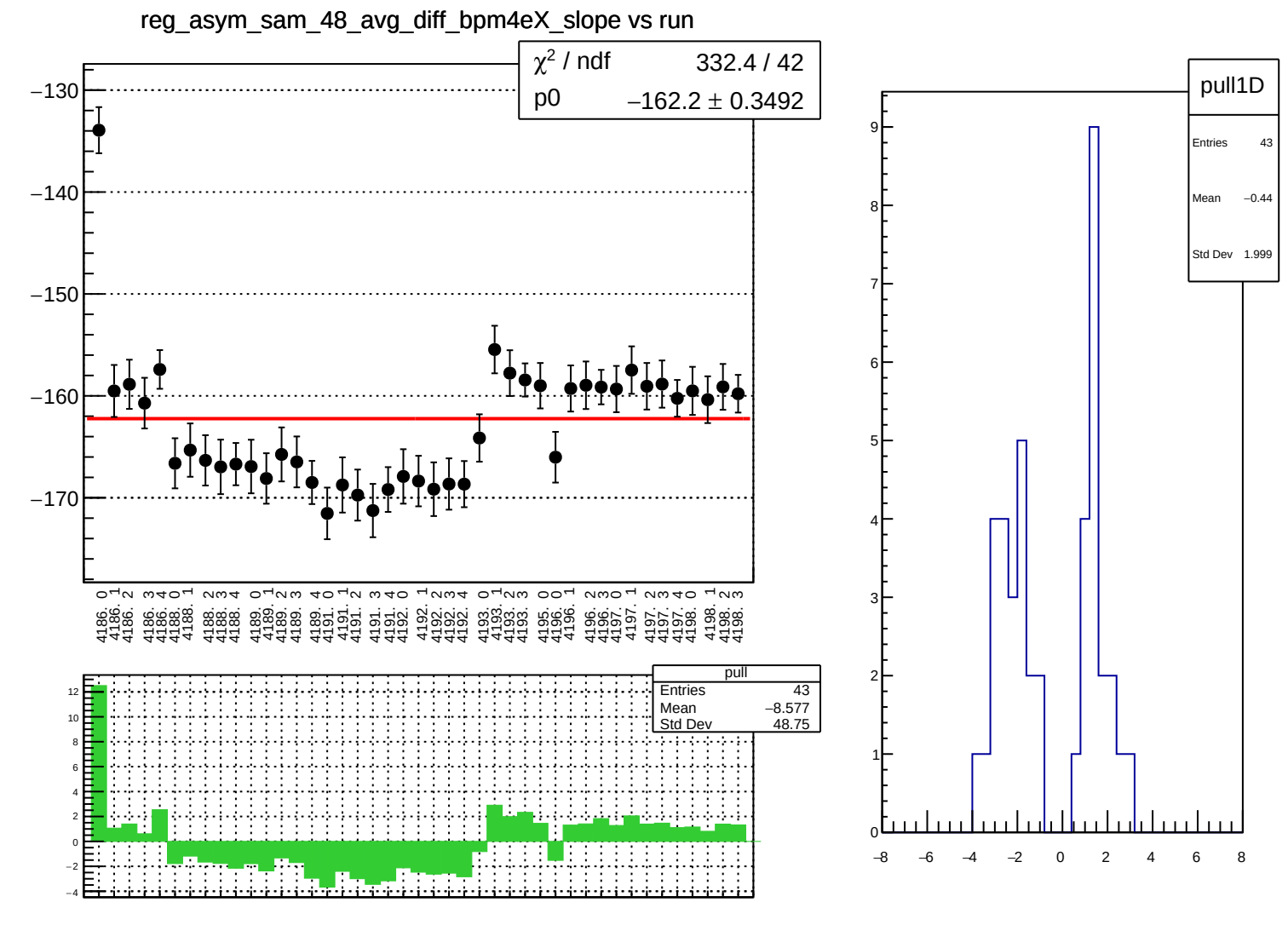

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.59 / 42
p0 74.78 ± 7.795
250
200
150
100
50
0
−50
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −6.577
Std Dev 33.43
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.007941
Std Dev 0.7407
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

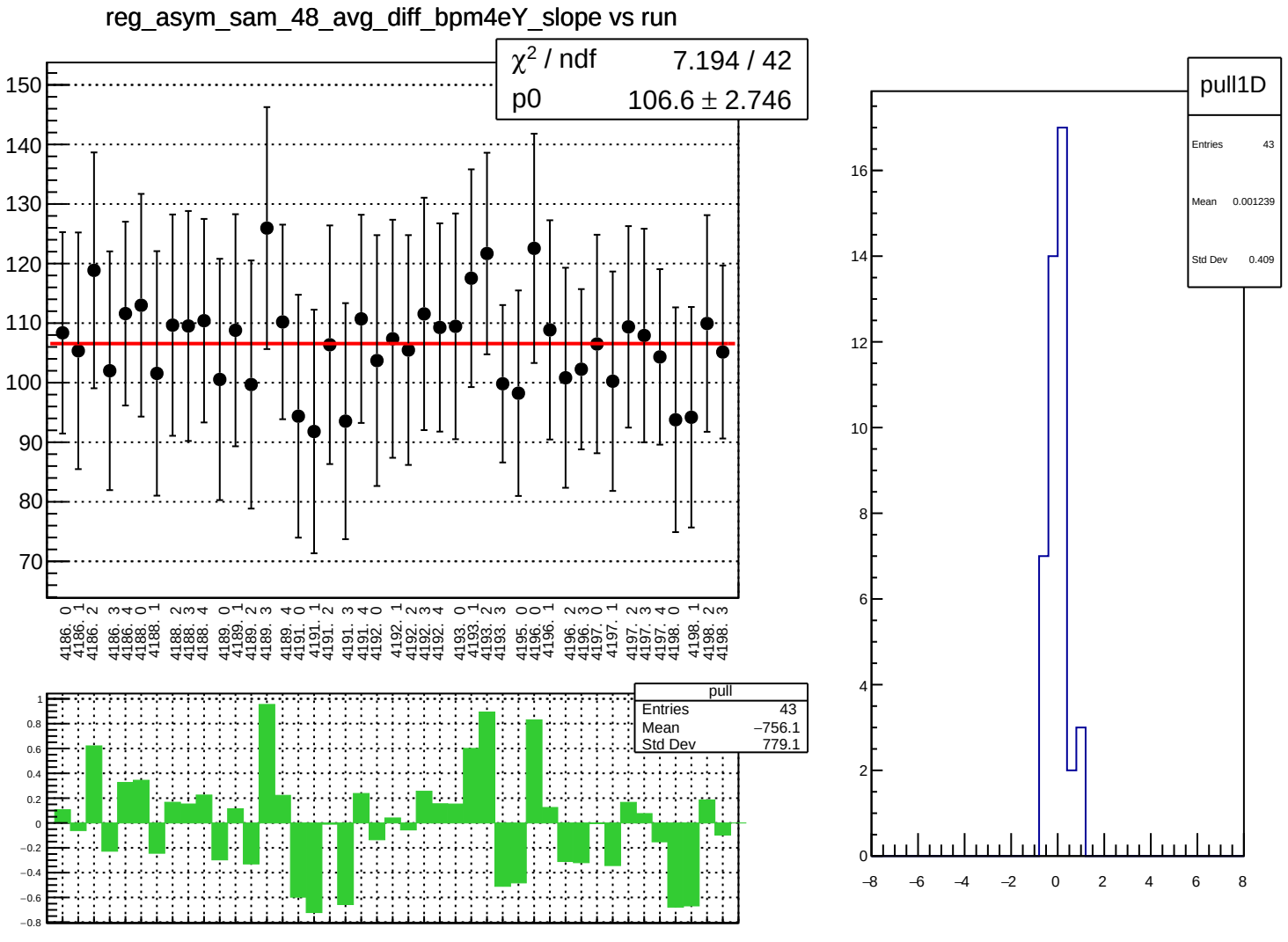

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 2.125 / 42
p0 3.337 ± 1.502
pull
Entries 43
Mean 75.5
Std Dev 13.46

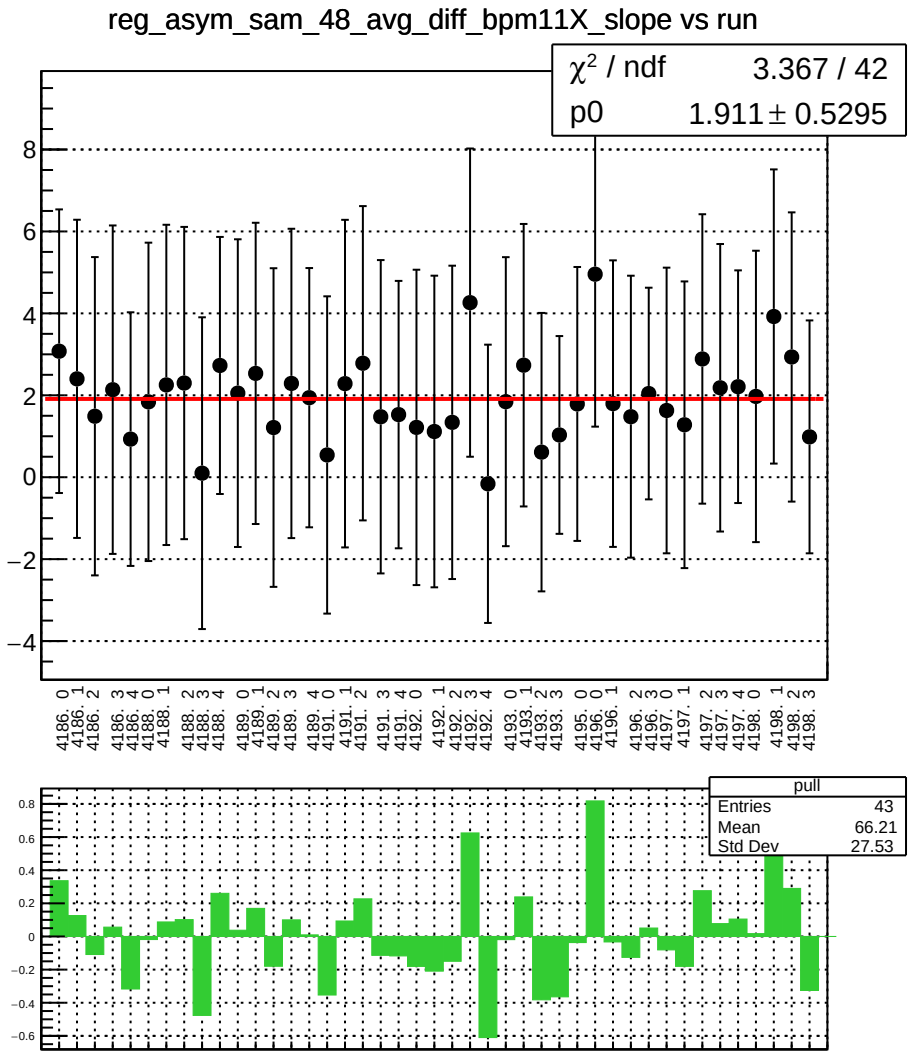

pull1D
Entries 43
Mean 0.003365
Std Dev 0.2223

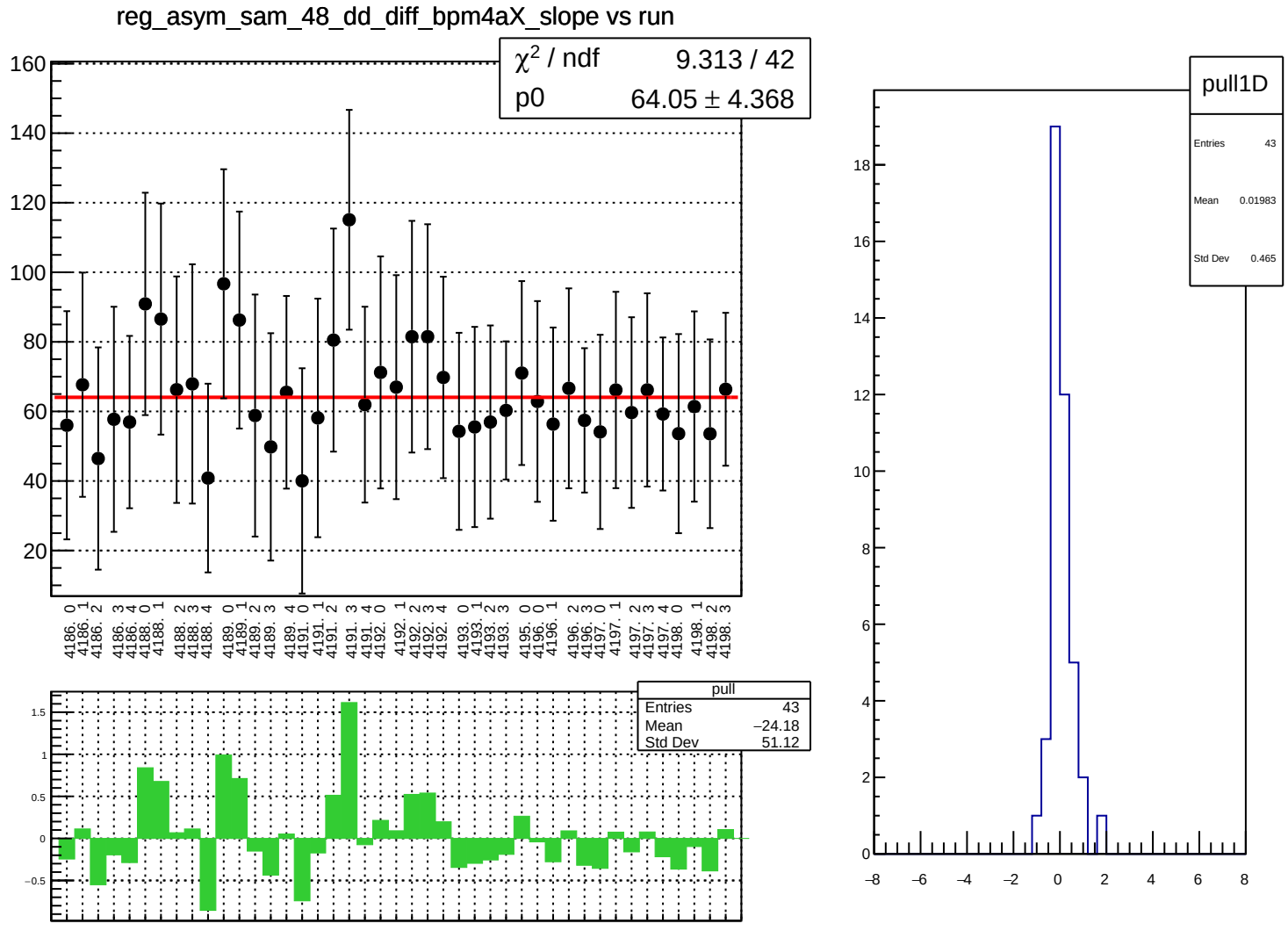

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.1 / 42
p0 51.68 ± 2.074
pull
Entries 43
Mean 33.69
Std Dev 15.78
pull1D
Entries 43
Mean 0.01273
Std Dev 0.4845

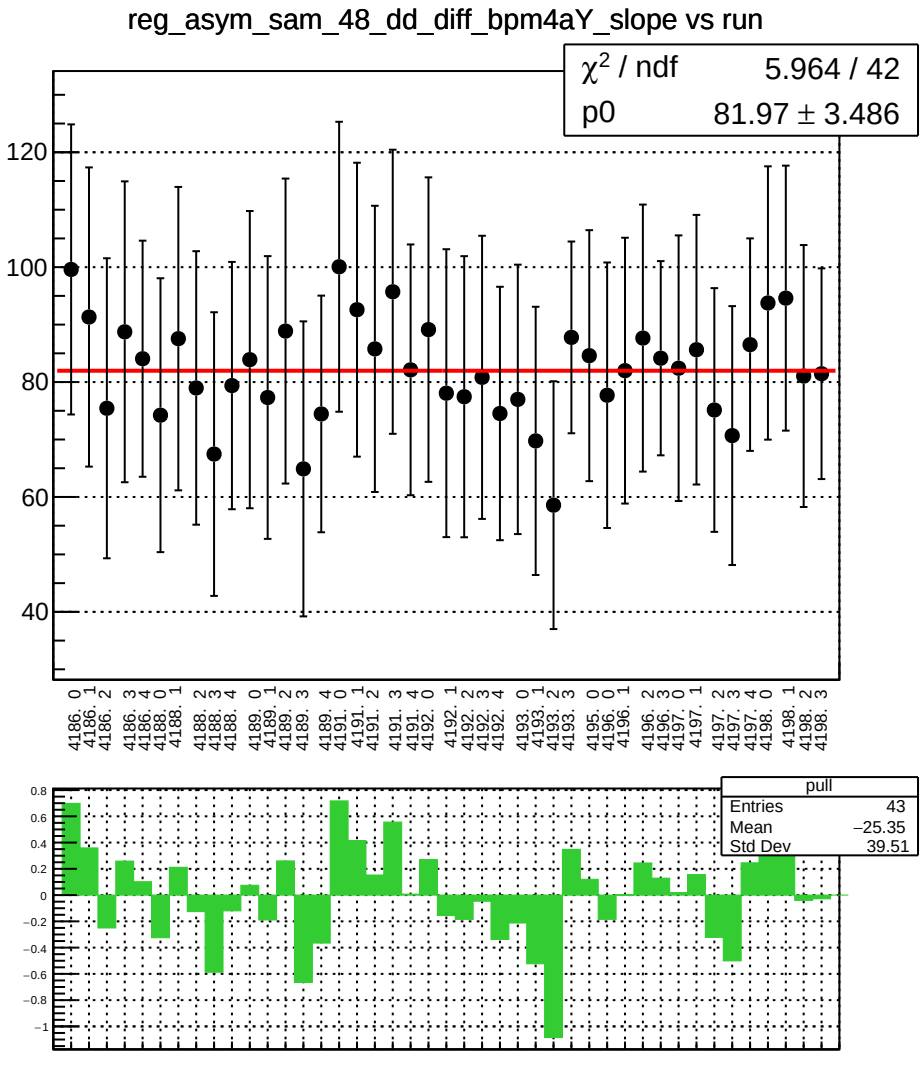

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.906 / 42
p0 −5.055 ± 1.655
20
10
0
−10
−20
−30
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 726.6
Std Dev 707.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.001941
Std Dev 0.4288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

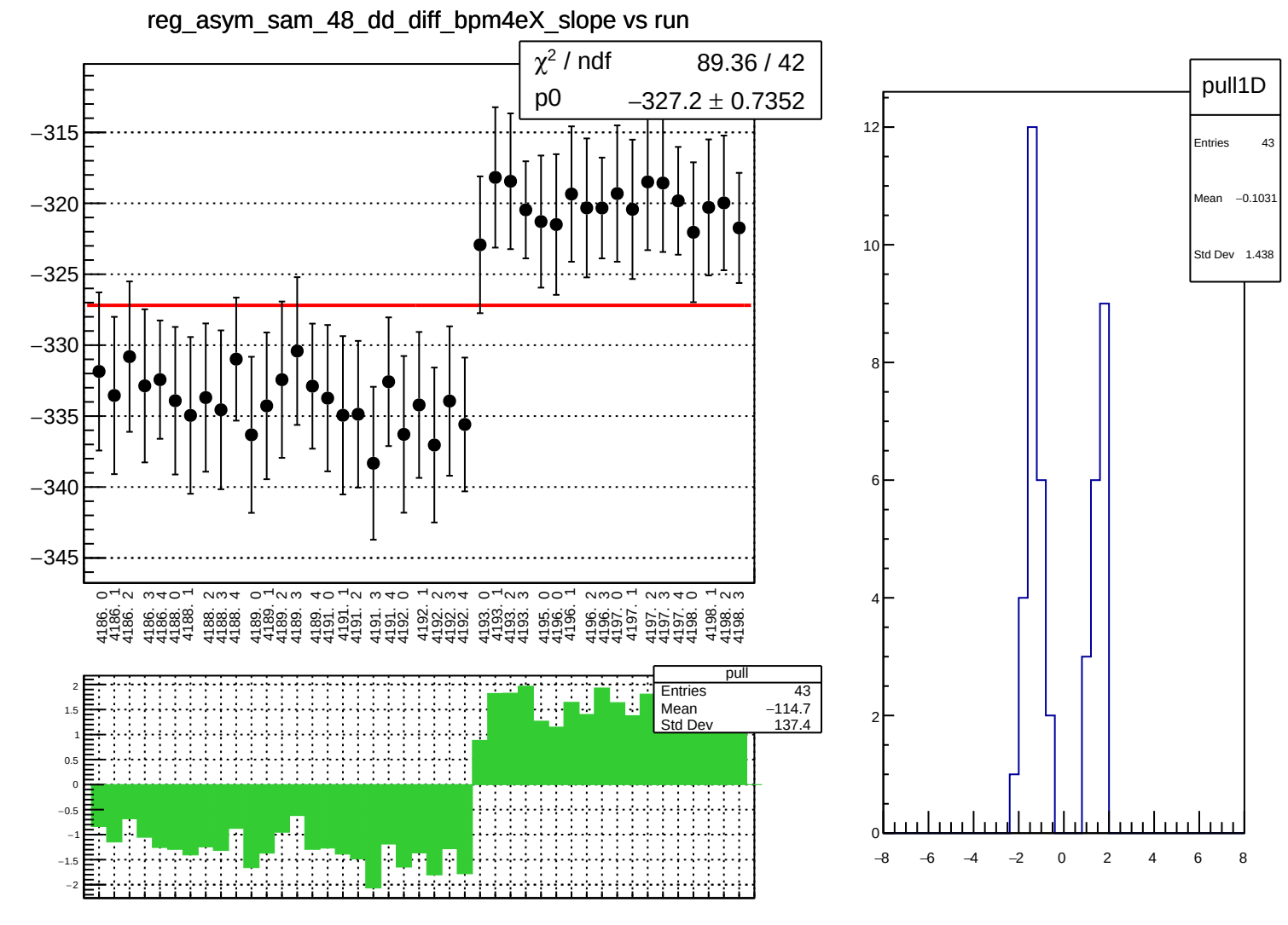

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 332.4 / 42
p0 −162.2 ± 0.3492
−130
−140
−150
−160
−170
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −8.577
Std Dev 48.75
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 43
Mean −0.44
Std Dev 1.999
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

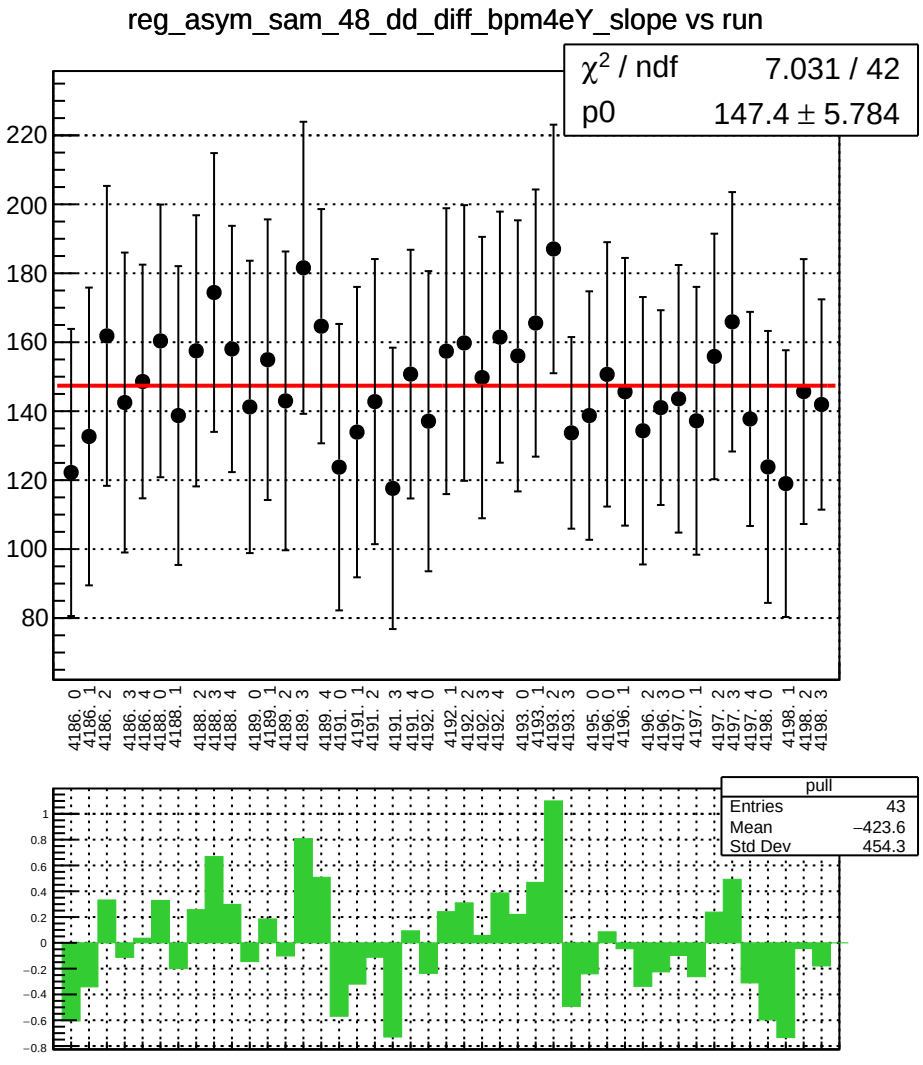

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.194 / 42
p0 106.6 ± 2.746
150
140
130
120
110
100
90
80
70
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −756.1
Std Dev 779.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.001239
Std Dev 0.409
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

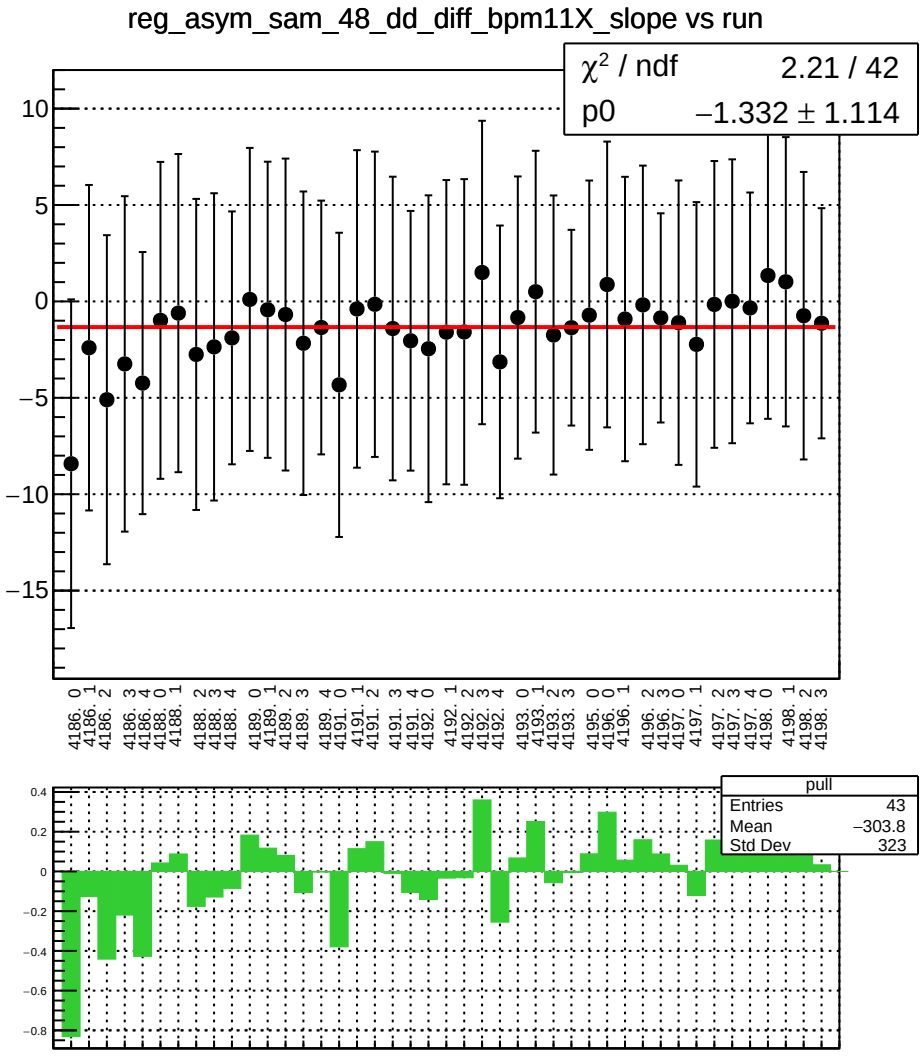

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 3.367 / 42
p0 1.911 ± 0.5295
pull
Entries 43
Mean 66.21
Std Dev 27.53
pull1D
Entries 43
Mean 0.006571
Std Dev 0.2797

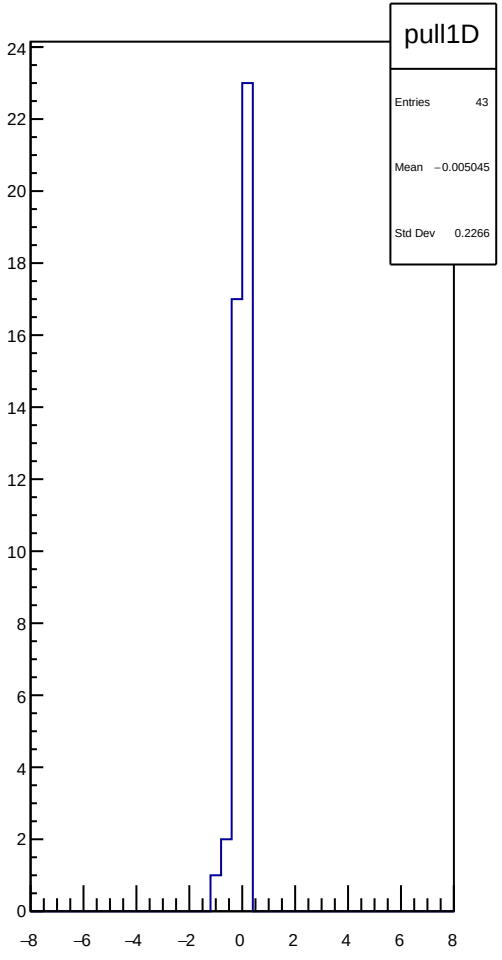

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.313 / 42
p0 64.05 ± 4.368
160
140
120
100
80
60
40
20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −24.18
Std Dev 51.12
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean 0.01983
Std Dev 0.465
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.964 / 42
p0 81.97 ± 3.486
120
100
80
60
40
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −25.35
Std Dev 39.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean 0.003253
Std Dev 0.3724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

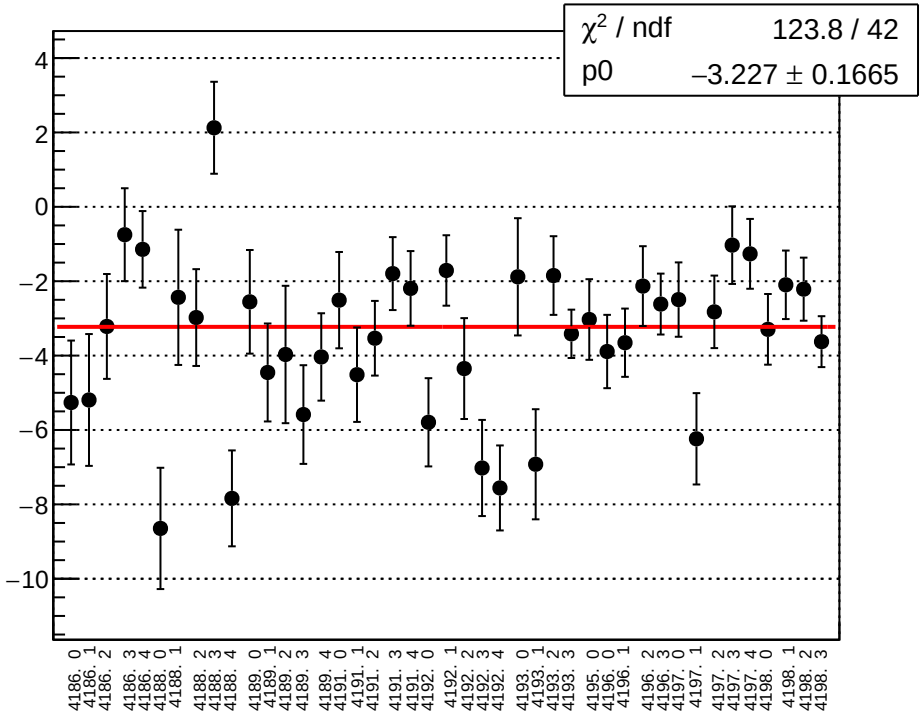

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.36 / 42
p0 −327.2 ± 0.7352
−315
−320
−325
−330
−335
−340
−345
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −114.7
Std Dev 137.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1031
Std Dev 1.438
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

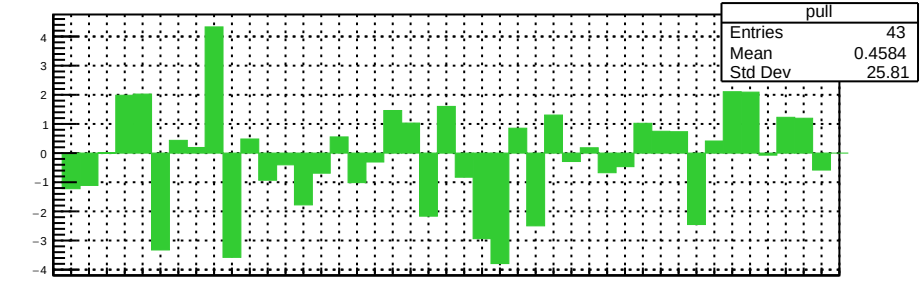

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.031 / 42
p0 147.4 ± 5.784
220
200
180
160
140
120
100
80
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −423.6
Std Dev 454.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.001742
Std Dev 0.4044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

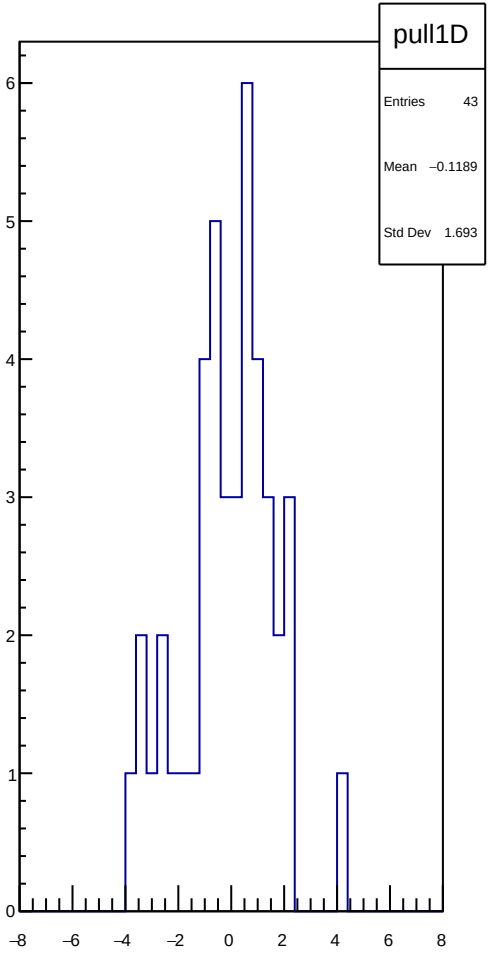

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 2.21 / 42
p0 −1.332 ± 1.114
pull
Entries 43
Mean −303.8
Std Dev 323

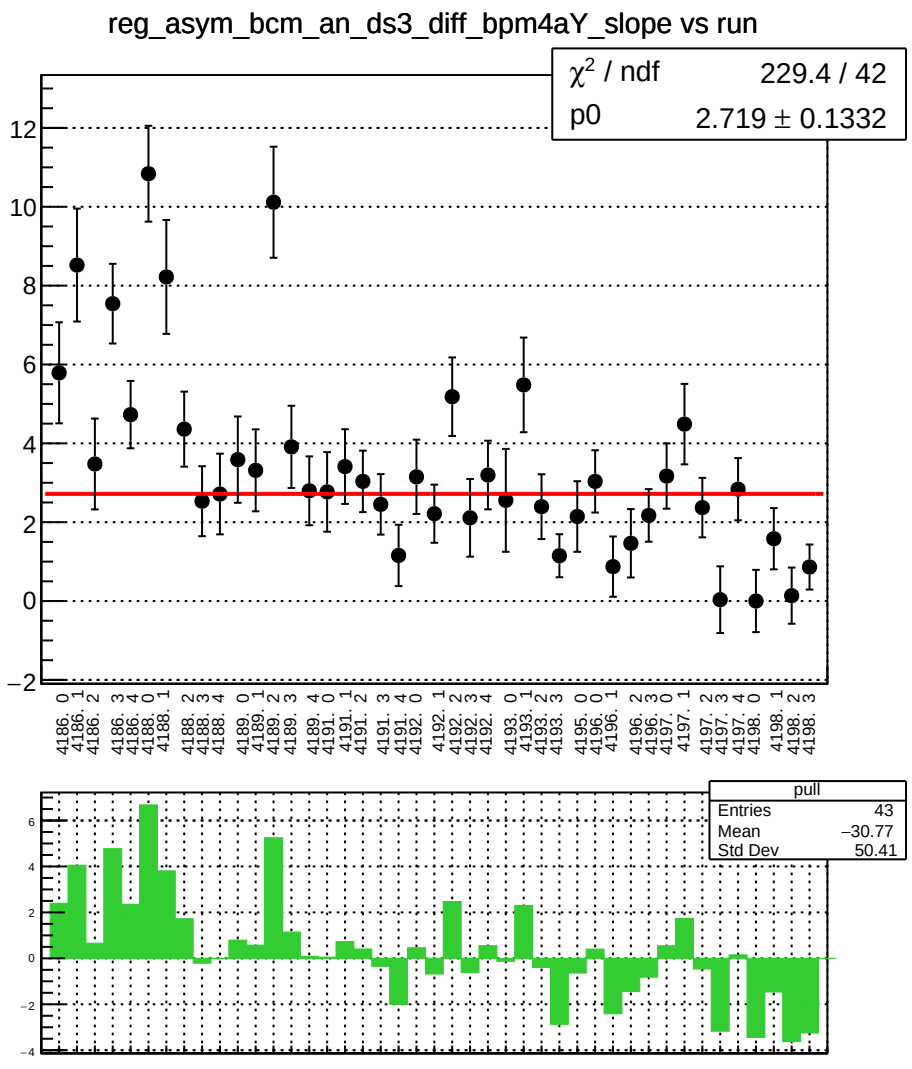

pull1D
Entries 43
Mean −0.005045
Std Dev 0.2266

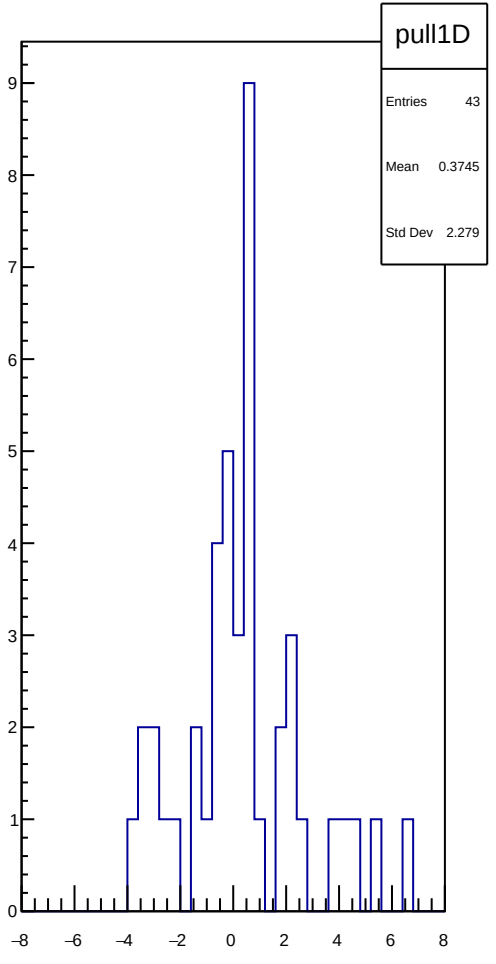
reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run

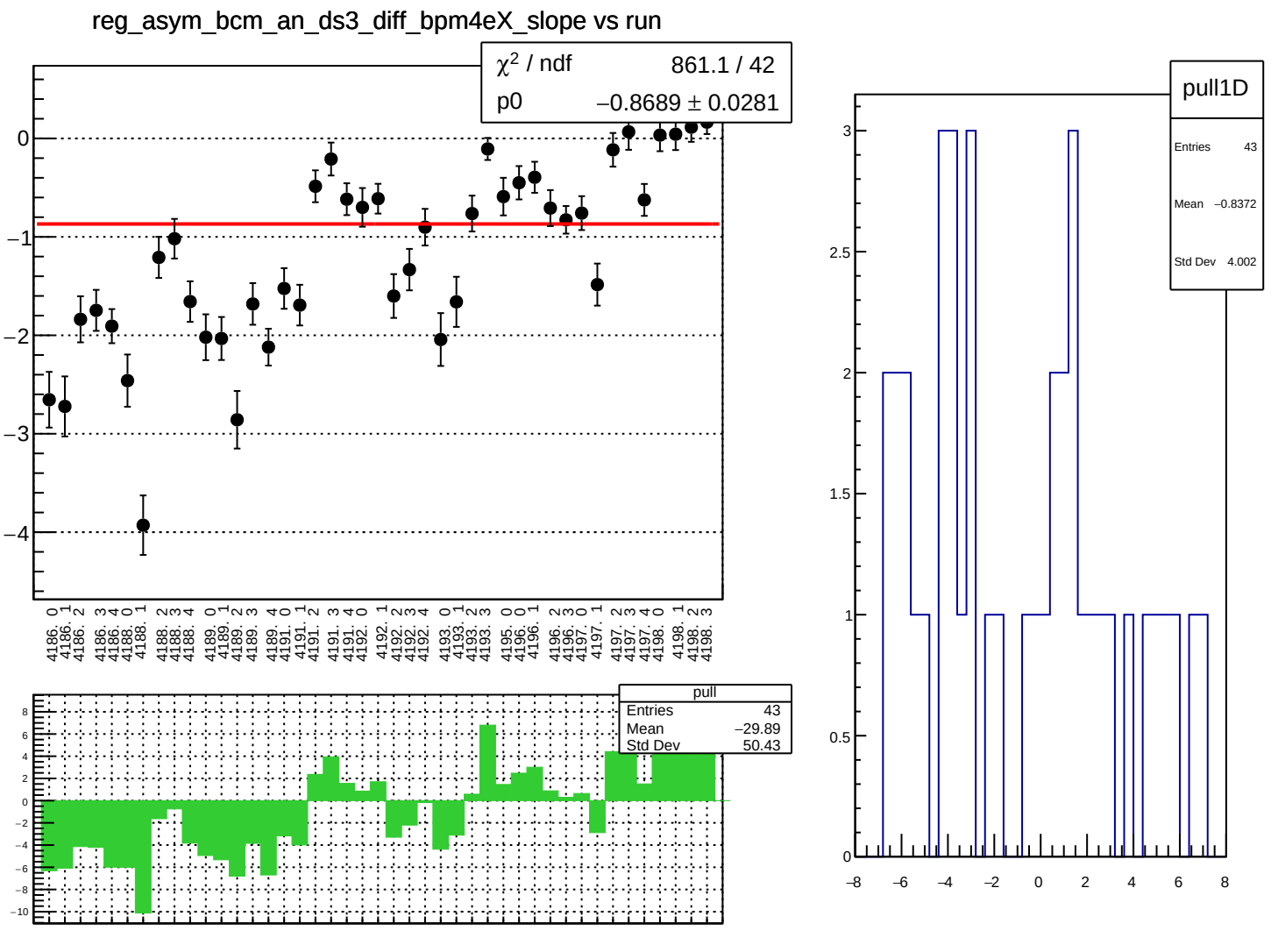


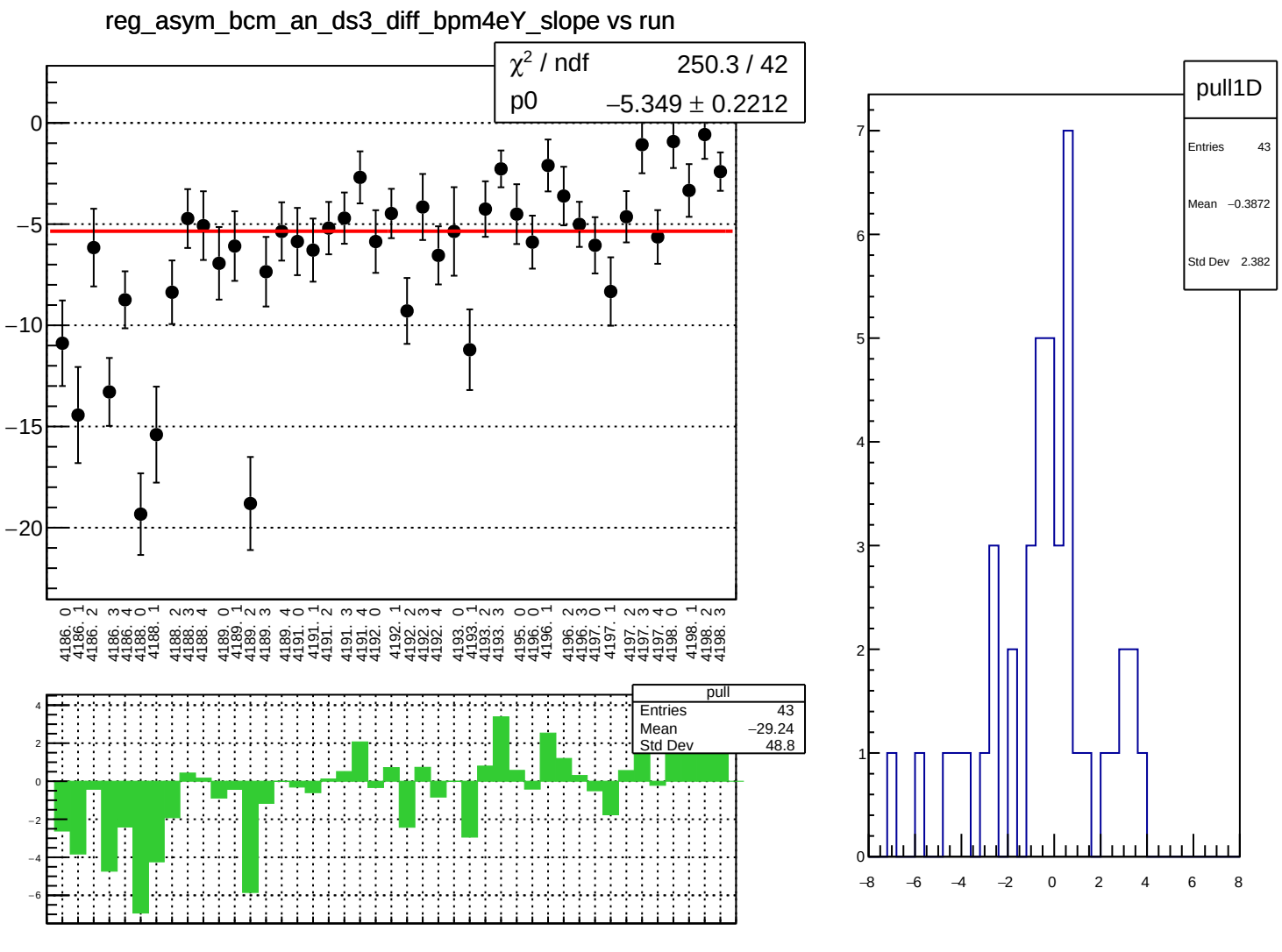


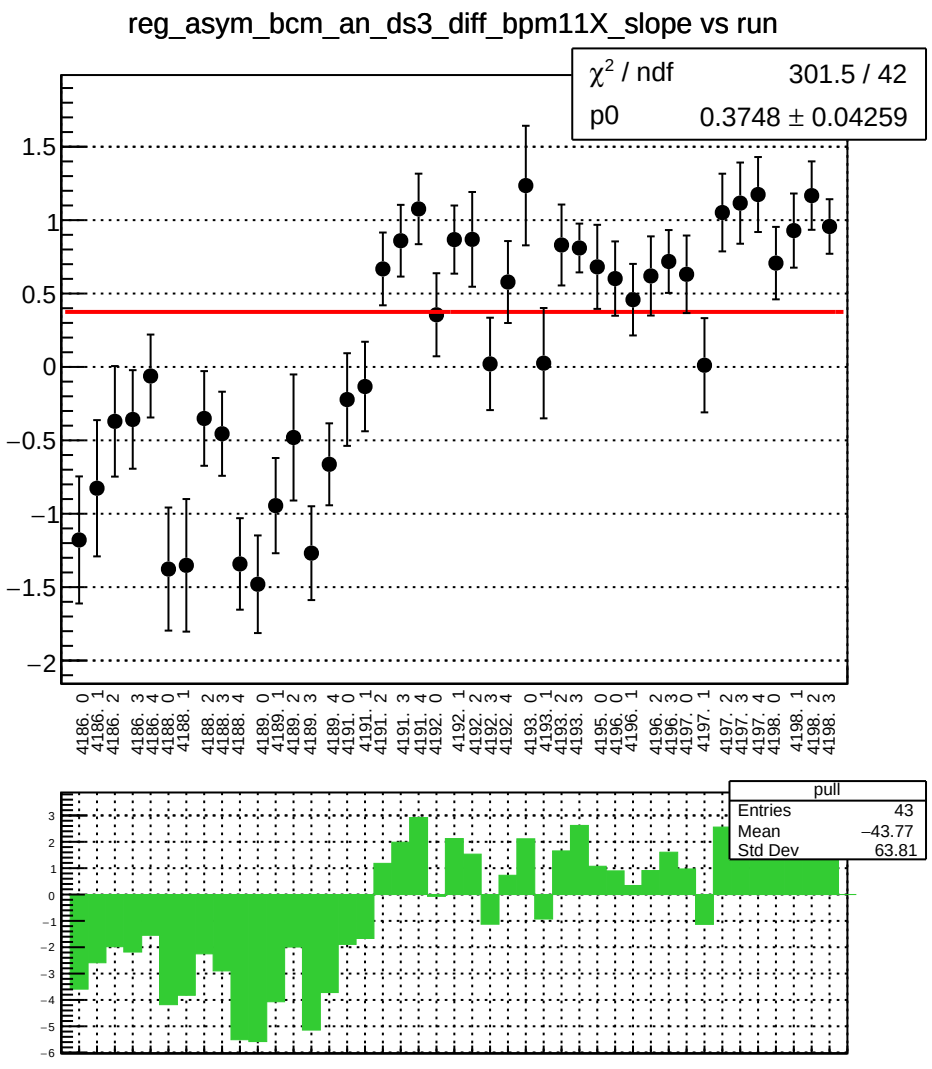


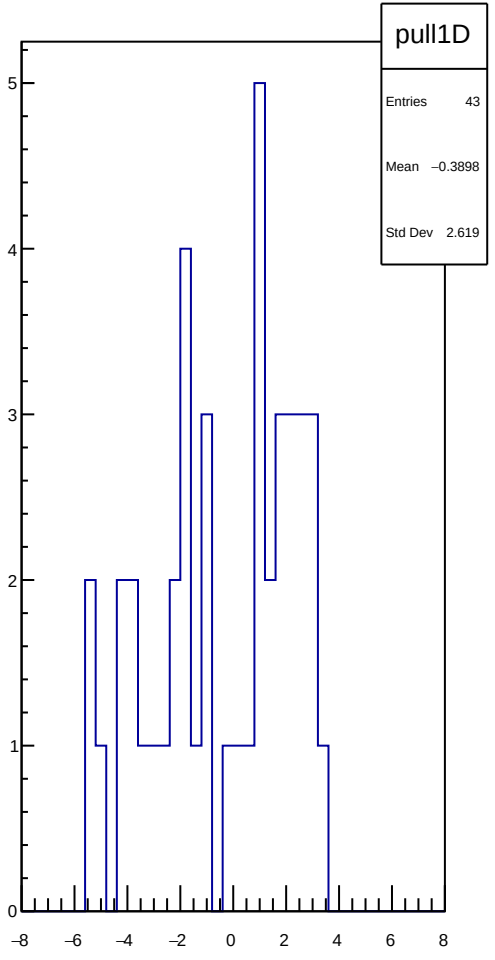

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 229.4 / 42
p0 2.719 ± 0.1332
pull
Entries 43
Mean −30.77
Std Dev 50.41

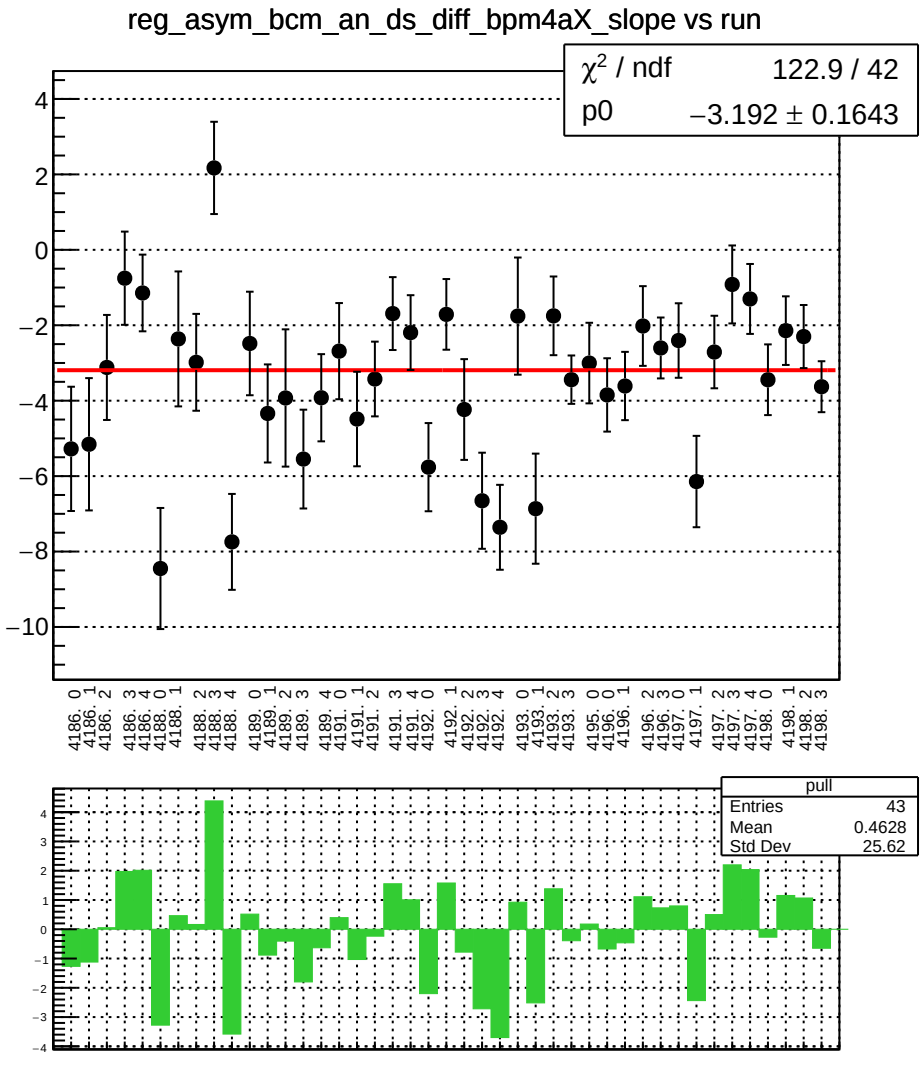

pull1D
Entries 43
Mean 0.3745
Std Dev 2.279

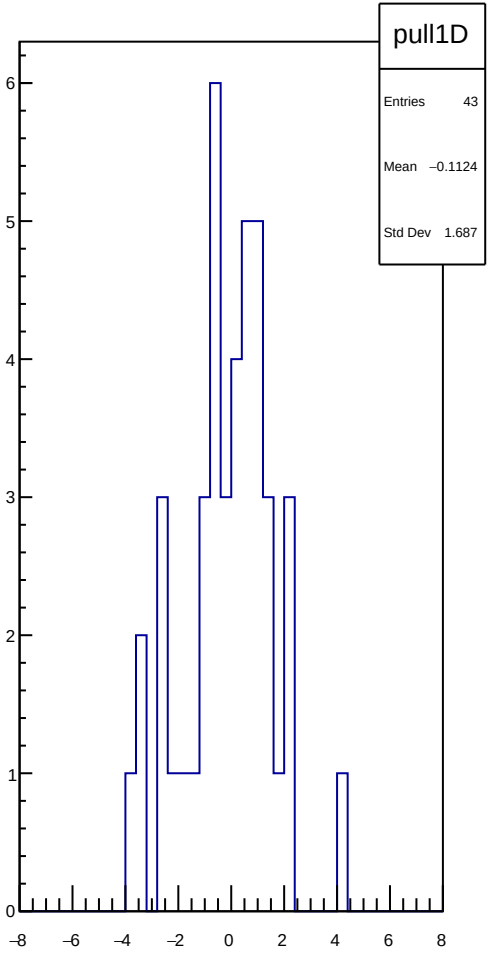

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 861.1 / 42
p0 −0.8689 ± 0.0281
pull
Entries 43
Mean −29.89
Std Dev 50.43
pull1D
Entries 43
Mean −0.8372
Std Dev 4.002

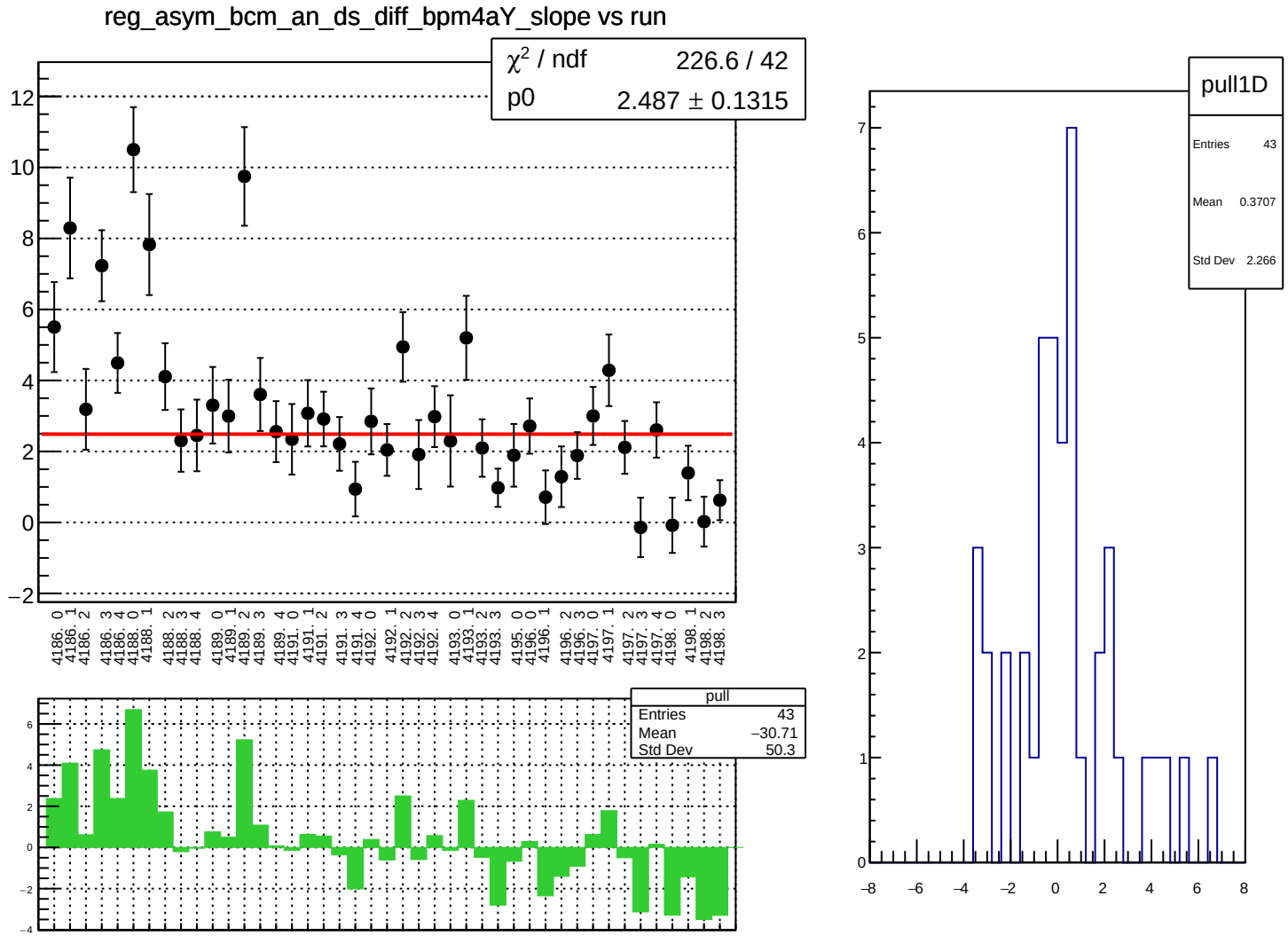

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 250.3 / 42
p0 −5.349 ± 0.2212
0
−5
−10
−15
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −29.24
Std Dev 48.8
4
2
0
−2
−4
−6
pull1D
Entries 43
Mean −0.3872
Std Dev 2.382
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

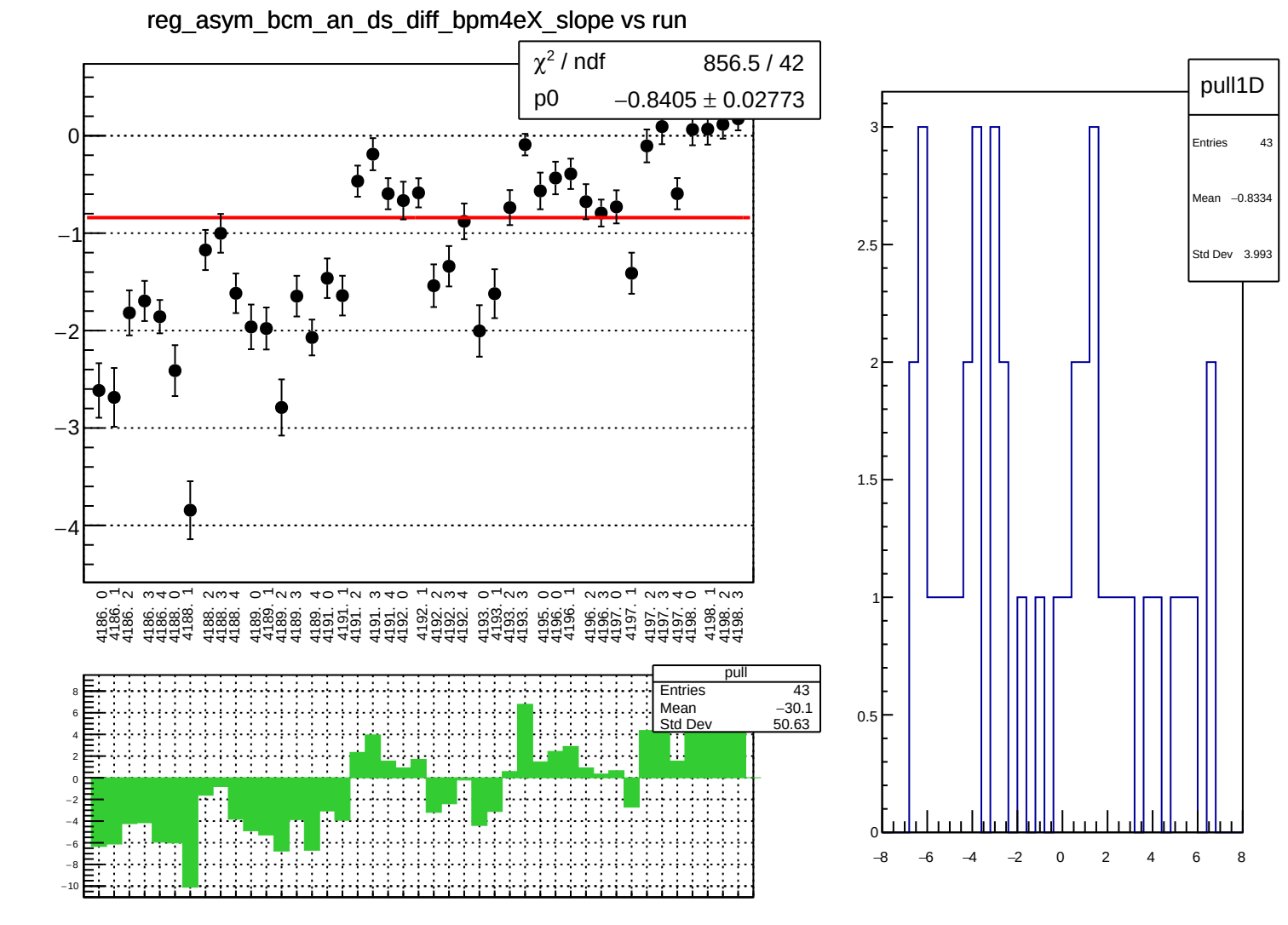

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 301.5 / 42
p0 0.3748 ± 0.04259
pull
Entries 43
Mean −43.77
Std Dev 63.81

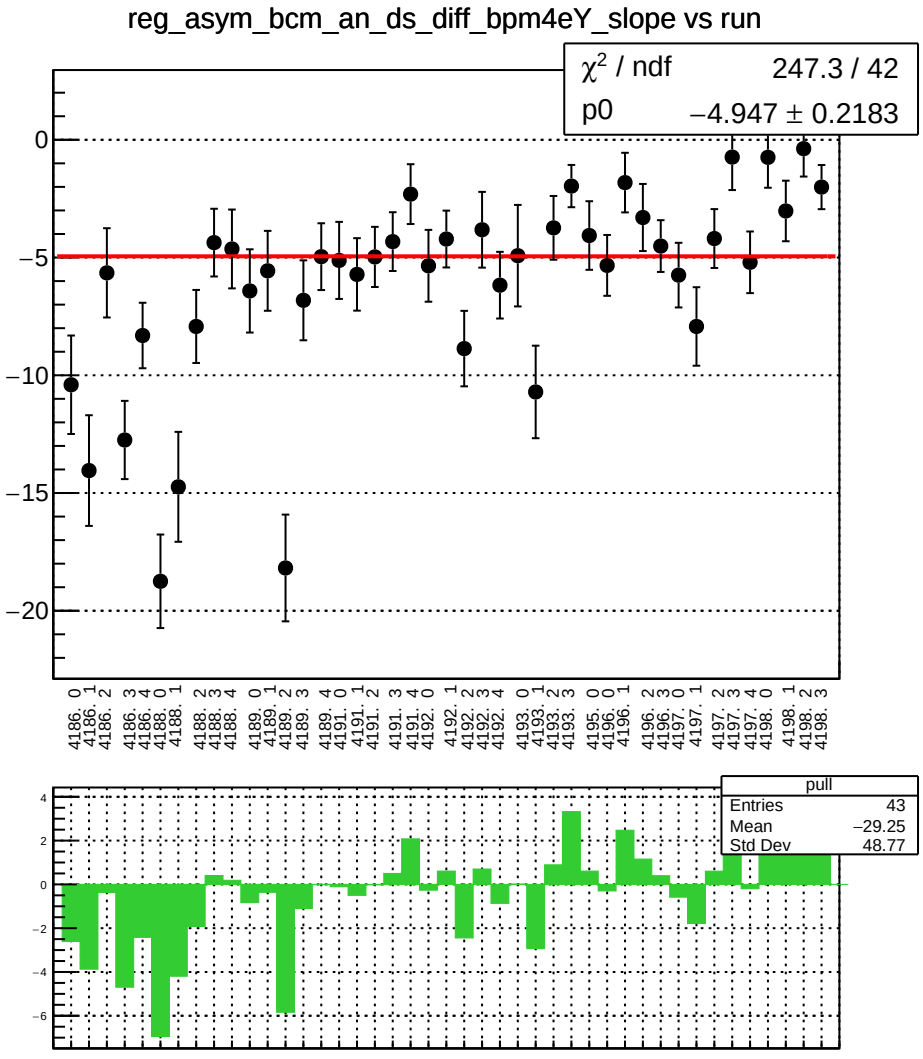

pull1D
Entries 43
Mean −0.3898
Std Dev 2.619

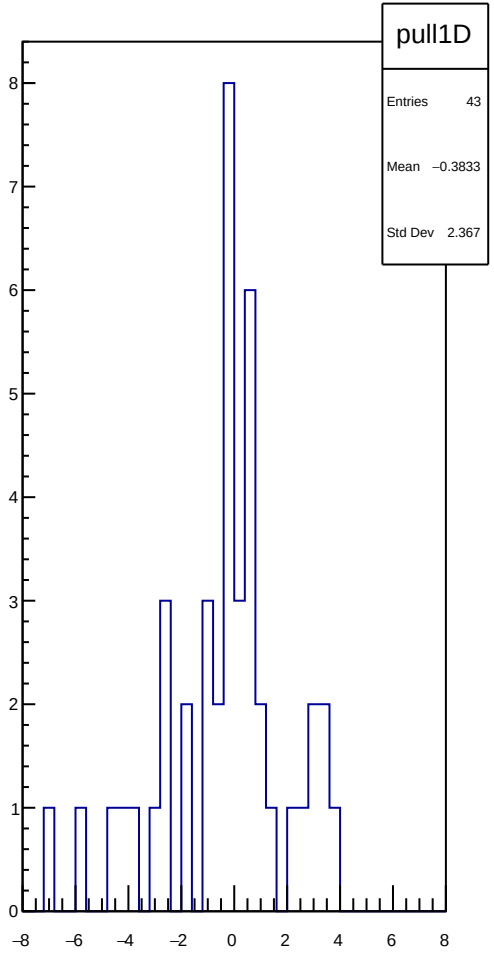

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 122.9 / 42
p0 −3.192 ± 0.1643
pull
Entries 43
Mean 0.4628
Std Dev 25.62

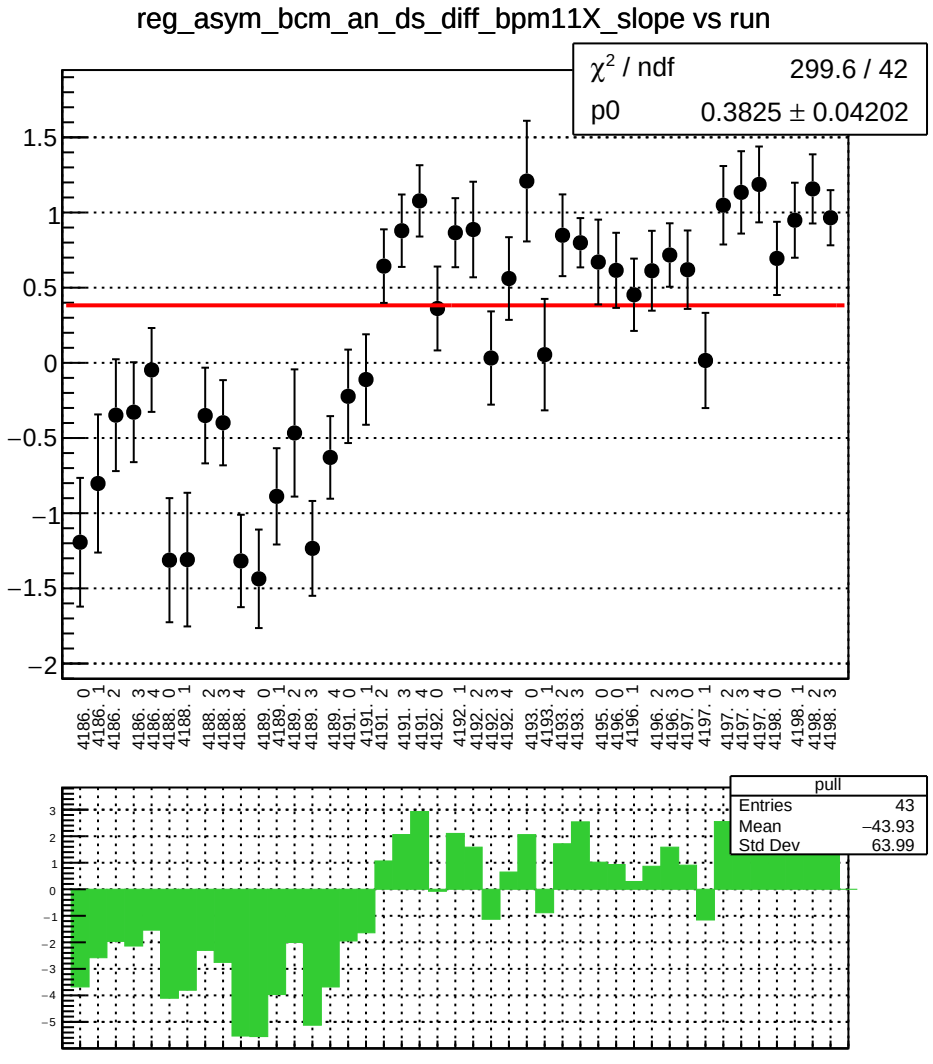

pull1D
Entries 43
Mean −0.1124
Std Dev 1.687

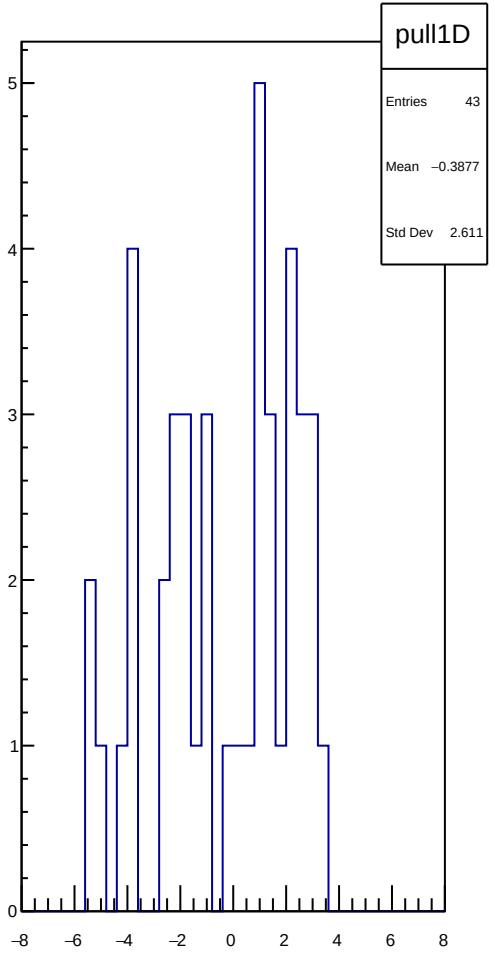

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 226.6 / 42
p0 2.487 ± 0.1315
pull
Entries 43
Mean −30.71
Std Dev 50.3
pull1D
Entries 43
Mean 0.3707
Std Dev 2.266

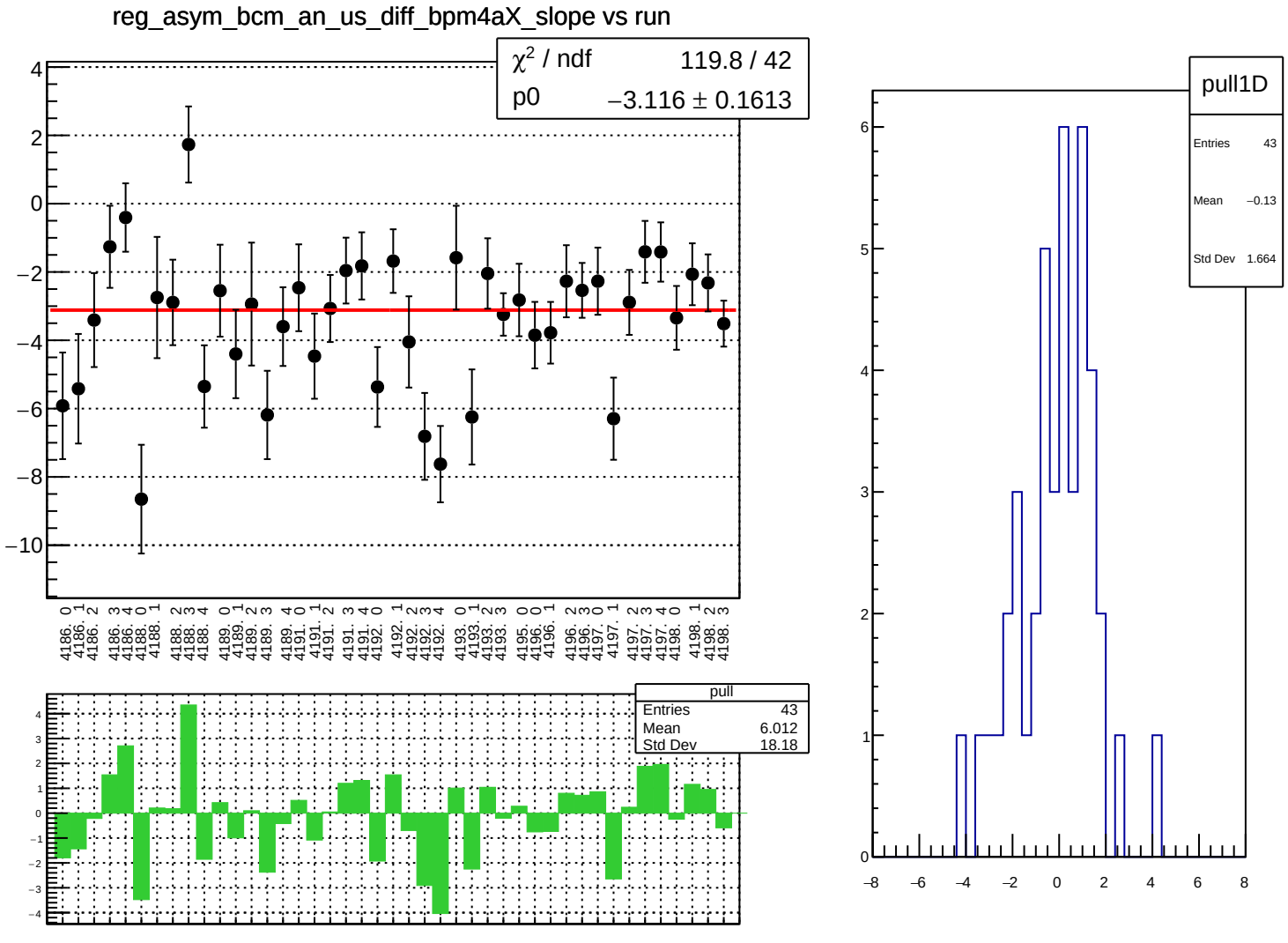

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 856.5 / 42
p0 −0.8405 ± 0.02773
pull
Entries 43
Mean −30.1
Std Dev 50.63
pull1D
Entries 43
Mean −0.8334
Std Dev 3.993

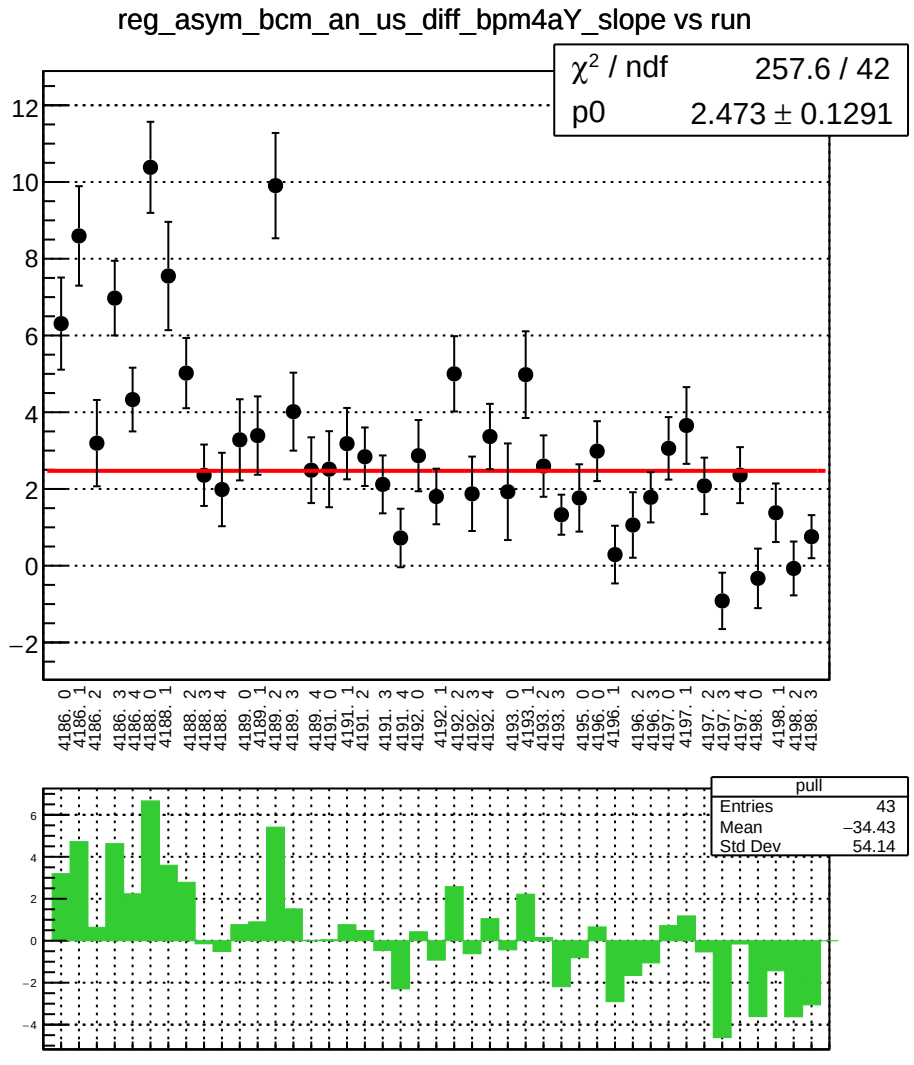

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 247.3 / 42
p0 −4.947 ± 0.2183
pull
Entries 43
Mean −29.25
Std Dev 48.77

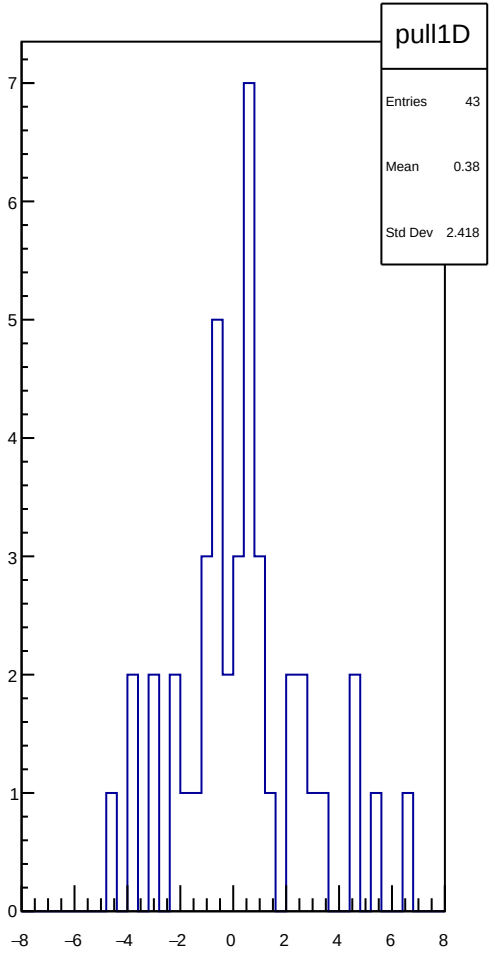

pull1D
Entries 43
Mean −0.3833
Std Dev 2.367

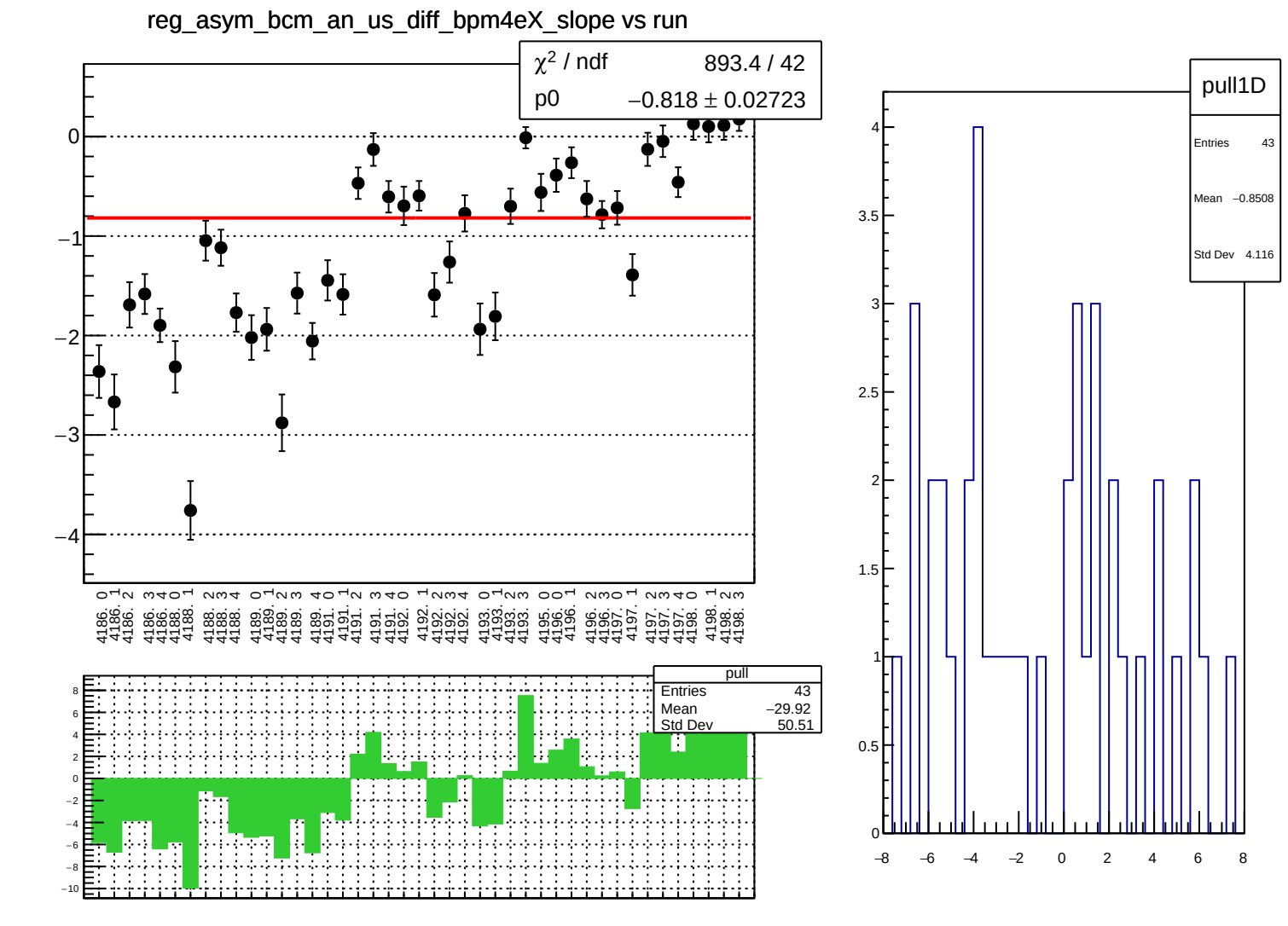

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 299.6 / 42
p0 0.3825 ± 0.04202
pull
Entries 43
Mean −43.93
Std Dev 63.99

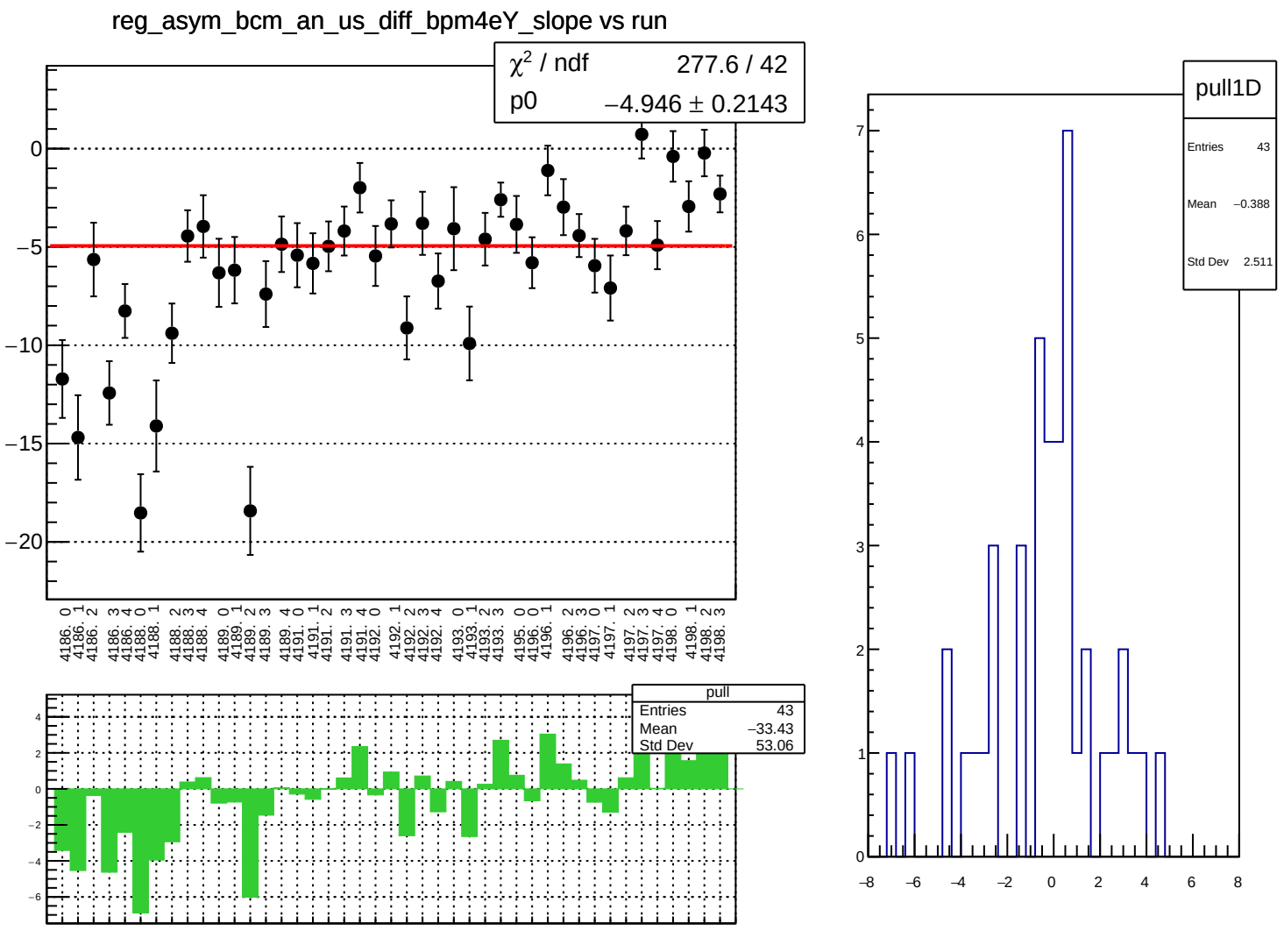

pull1D
Entries 43
Mean −0.3877
Std Dev 2.611

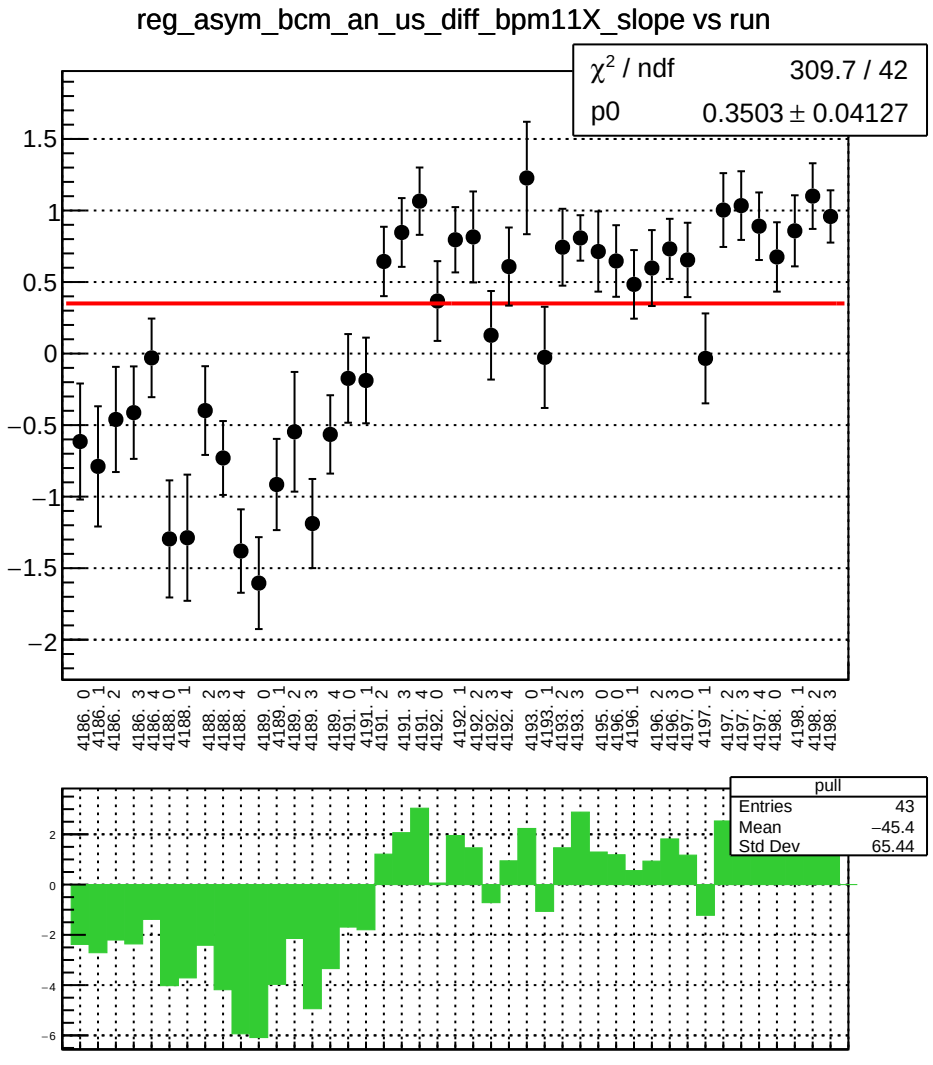

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 119.8 / 42
p0 −3.116 ± 0.1613
pull
Entries 43
Mean 6.012
Std Dev 18.18
pull1D
Entries 43
Mean −0.13
Std Dev 1.664

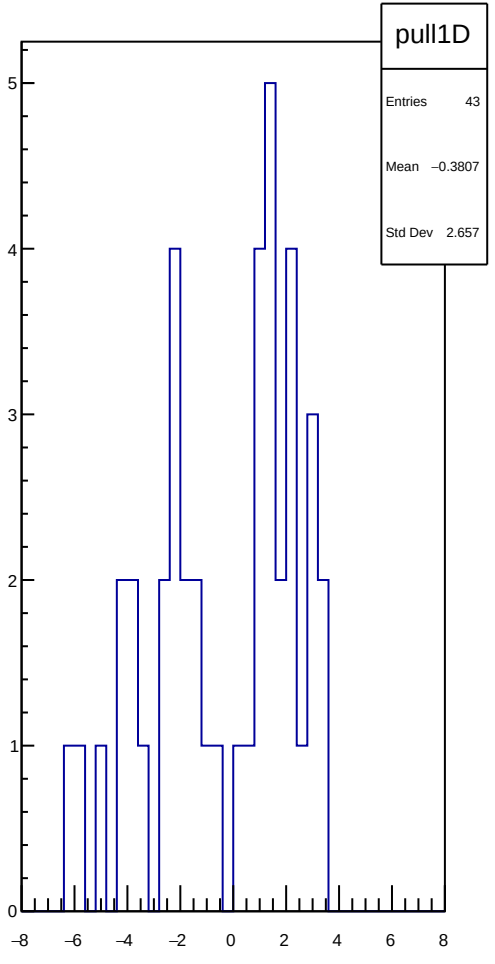

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 257.6 / 42
p0 2.473 ± 0.1291
pull
Entries 43
Mean −34.43
Std Dev 54.14

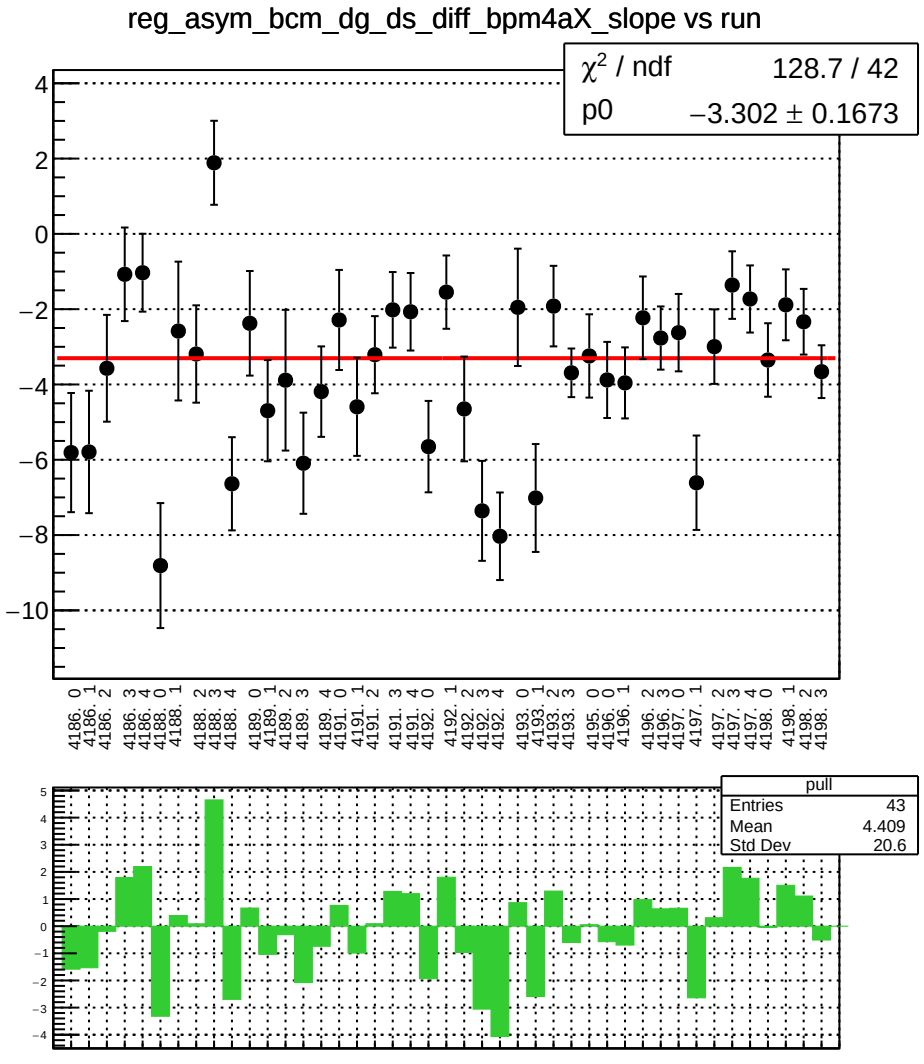

pull1D
Entries 43
Mean 0.38
Std Dev 2.418

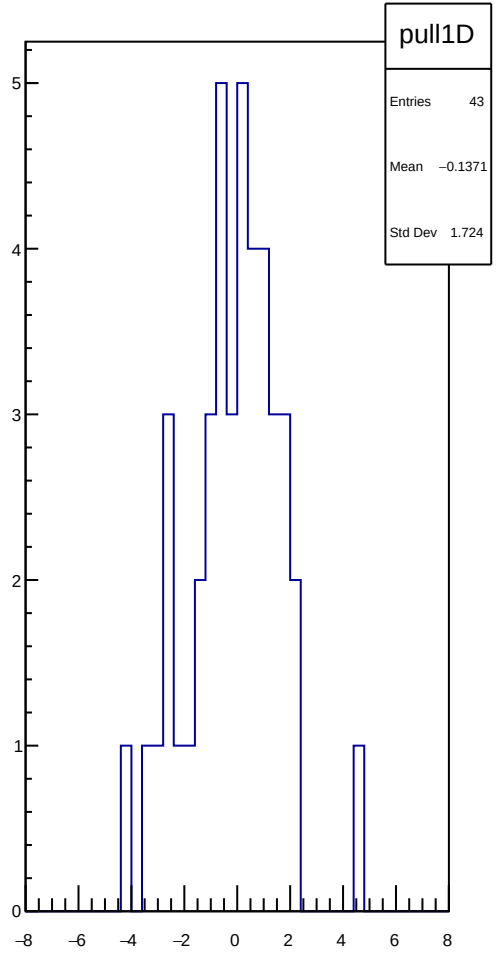

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 893.4 / 42
p0 −0.818 ± 0.02723
pull
Entries 43
Mean −29.92
Std Dev 50.51
pull1D
Entries 43
Mean −0.8508
Std Dev 4.116

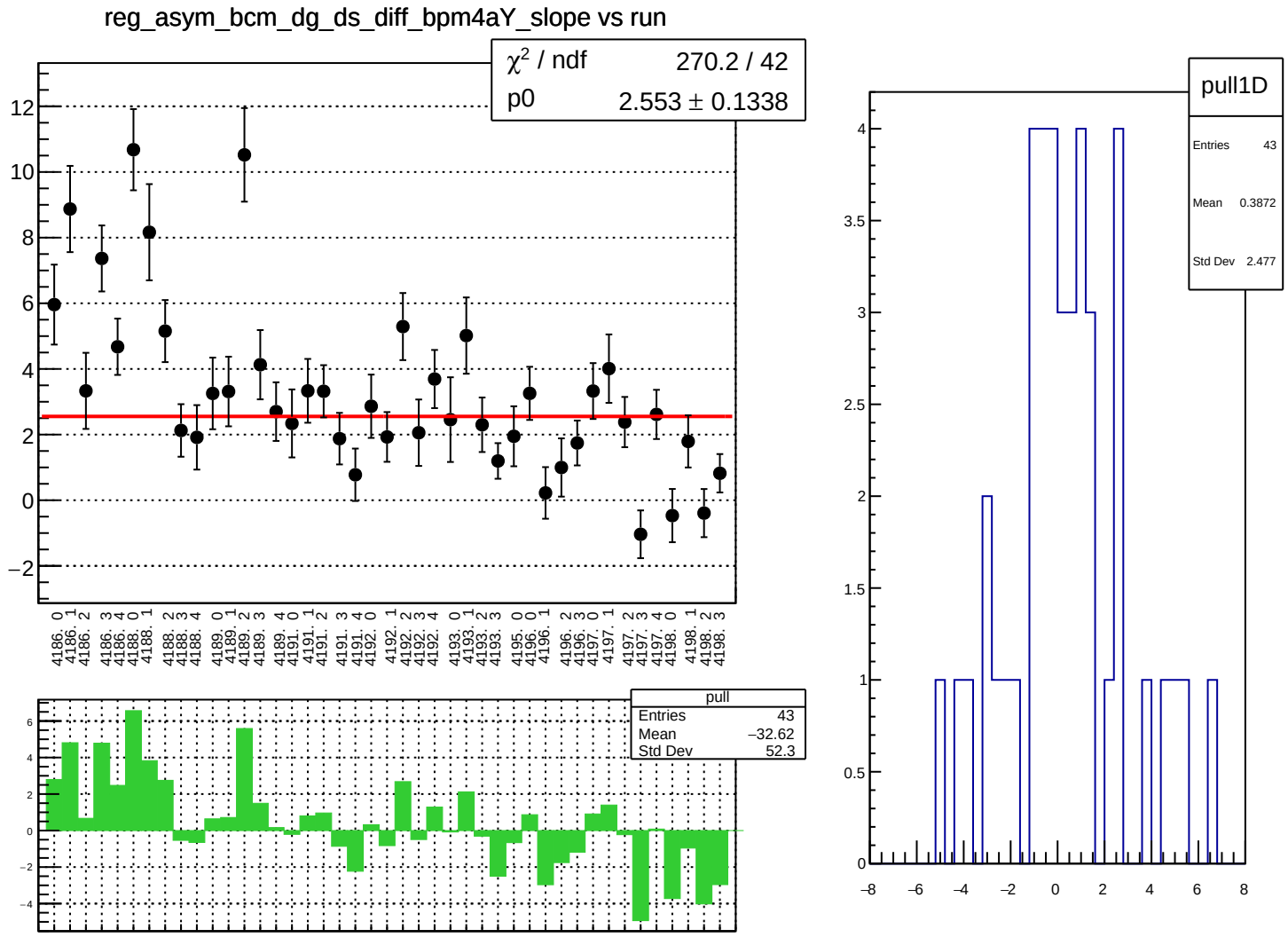

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 277.6 / 42
p0 −4.946 ± 0.2143
0
−5
−10
−15
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −33.43
Std Dev 53.06
4
2
0
−2
−4
−6
pull1D
Entries 43
Mean −0.388
Std Dev 2.511
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

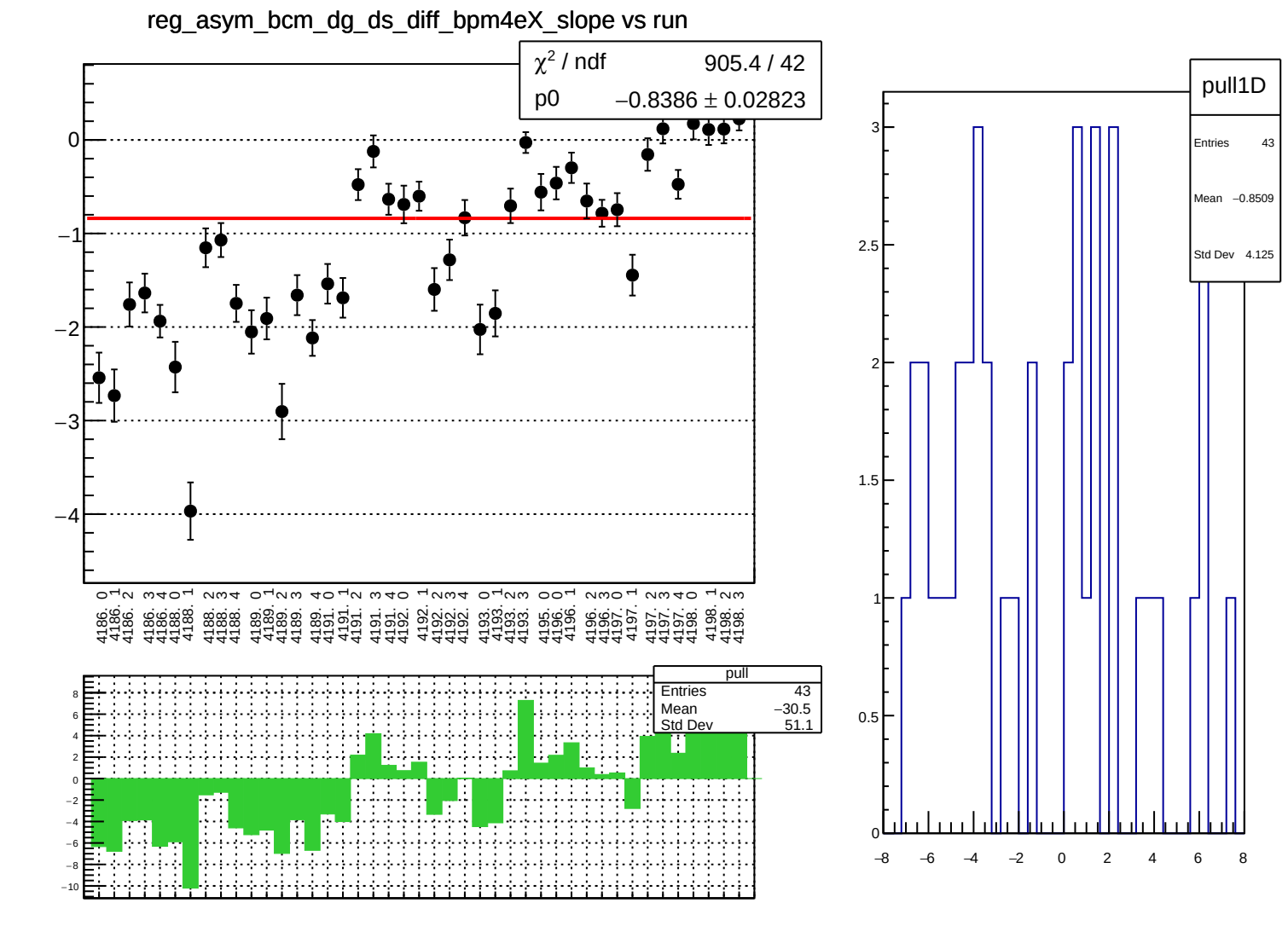

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 309.7 / 42
p0 0.3503 ± 0.04127
pull
Entries 43
Mean −45.4
Std Dev 65.44

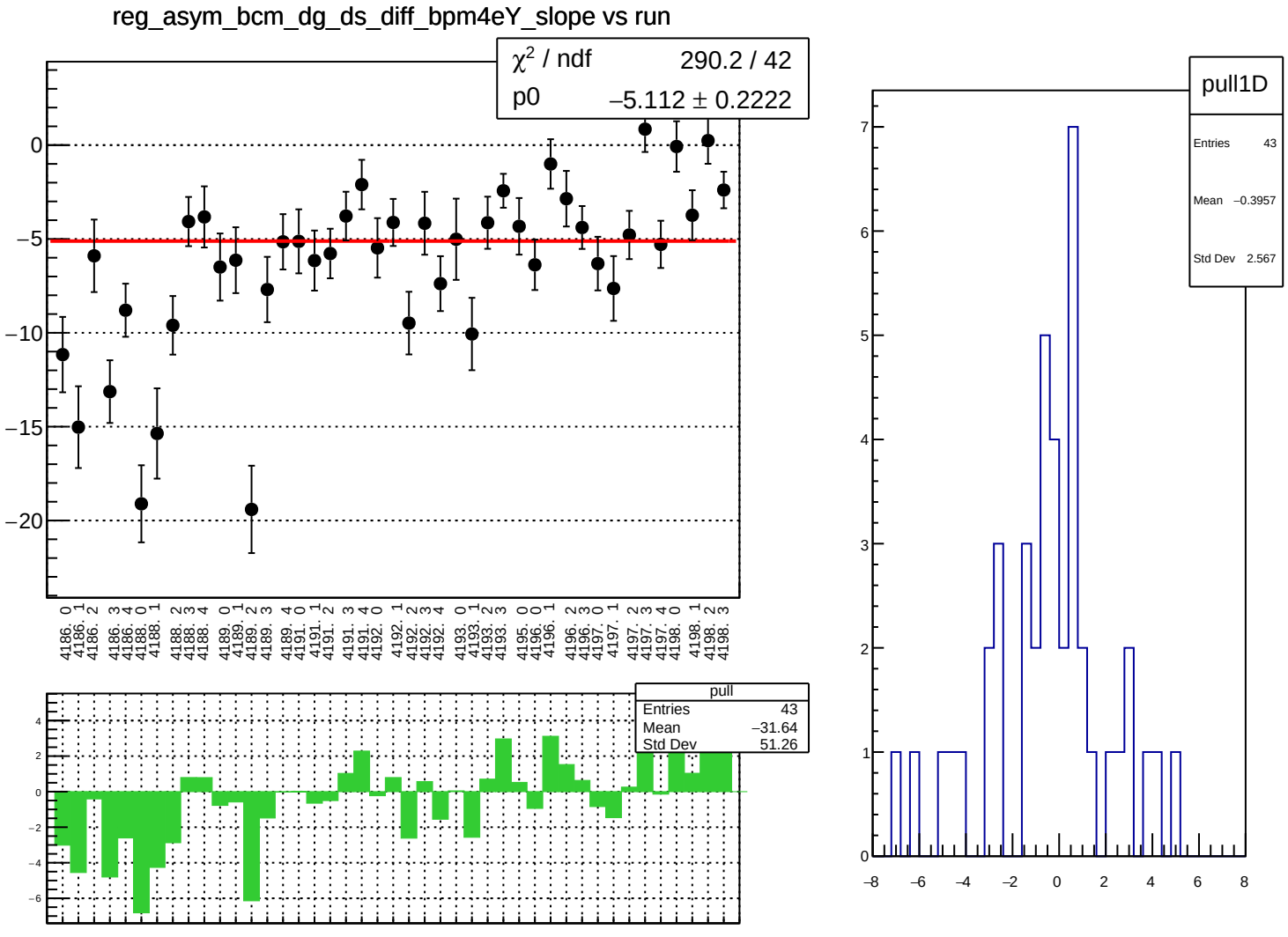

pull1D
Entries 43
Mean −0.3807
Std Dev 2.657

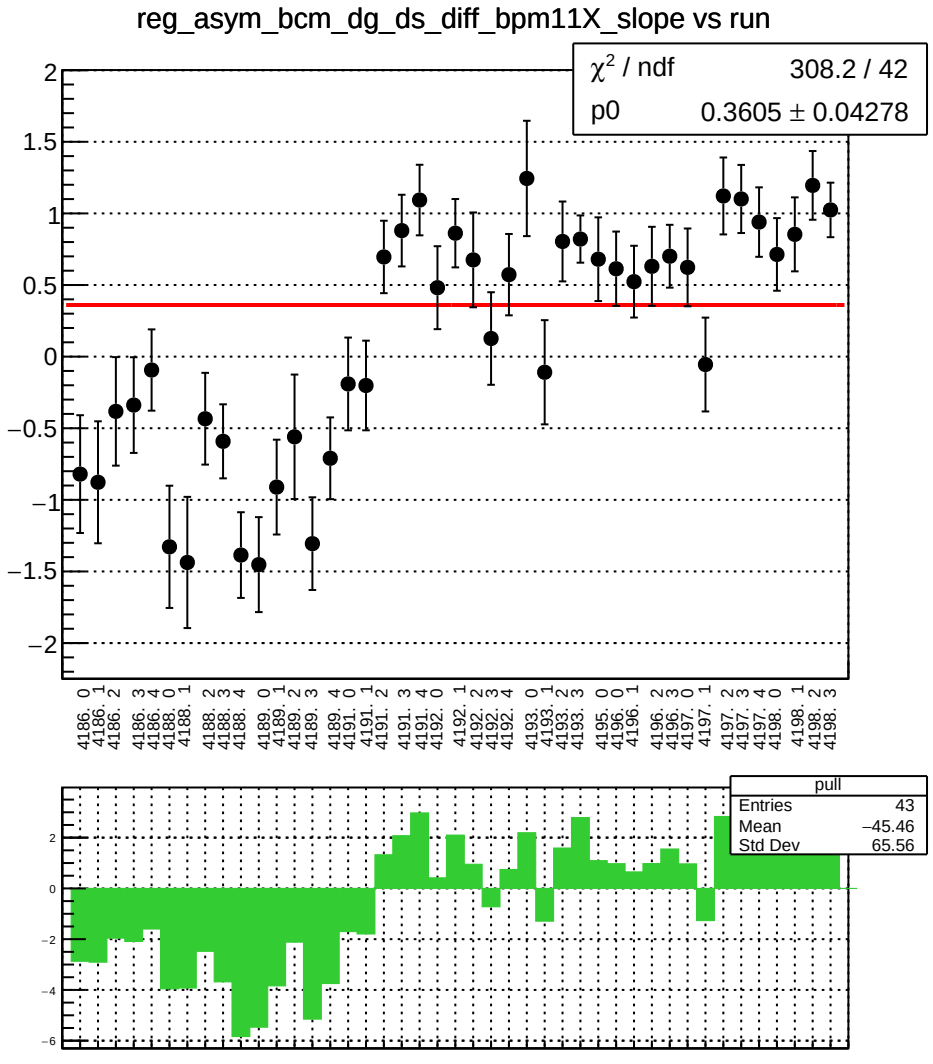

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 128.7 / 42
p0 −3.302 ± 0.1673
pull
Entries 43
Mean 4.409
Std Dev 20.6

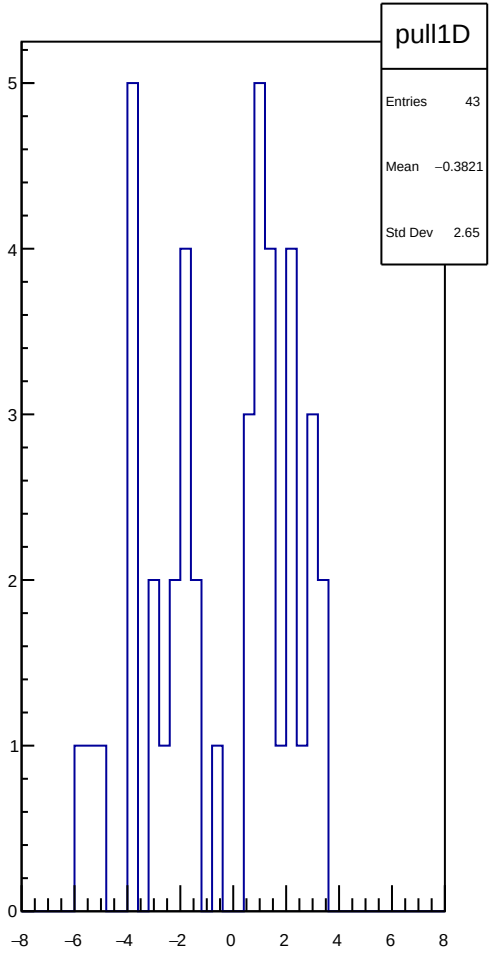

pull1D
Entries 43
Mean −0.1371
Std Dev 1.724

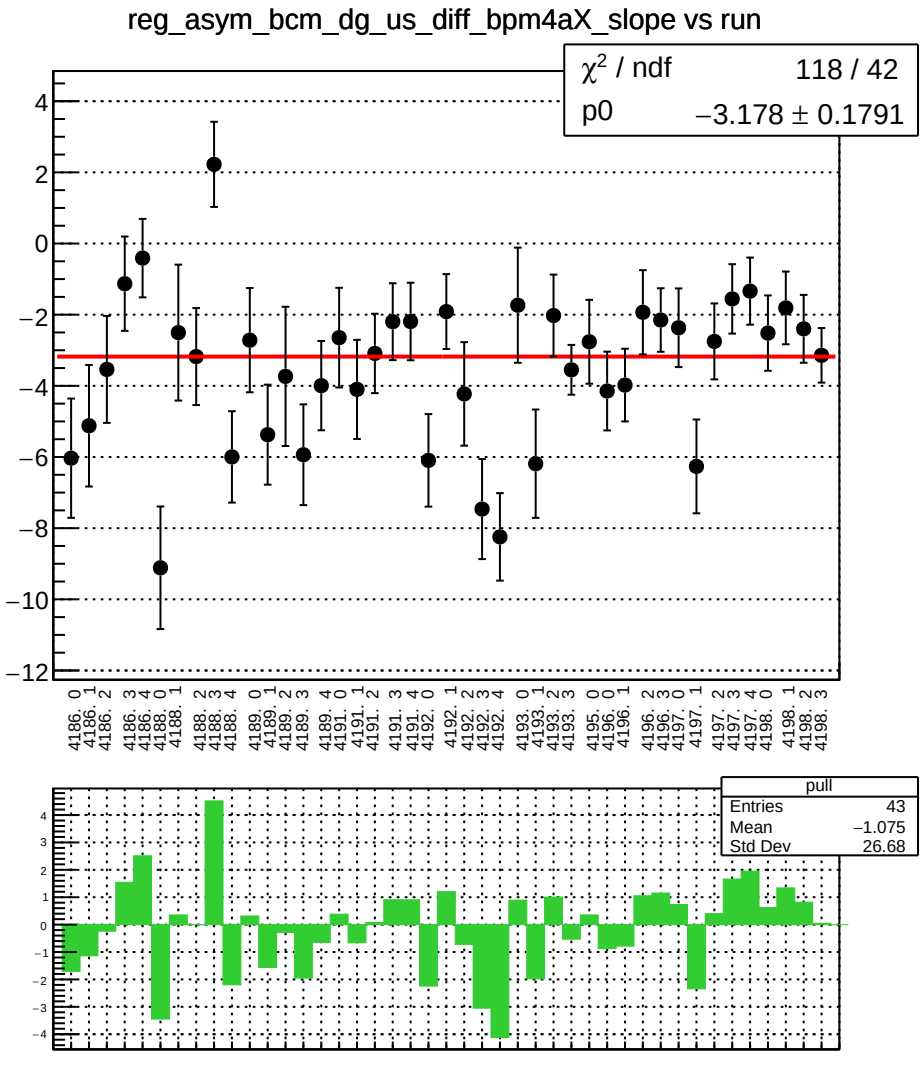

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 270.2 / 42
p0 2.553 ± 0.1338
pull
Entries 43
Mean −32.62
Std Dev 52.3
pull1D
Entries 43
Mean 0.3872
Std Dev 2.477

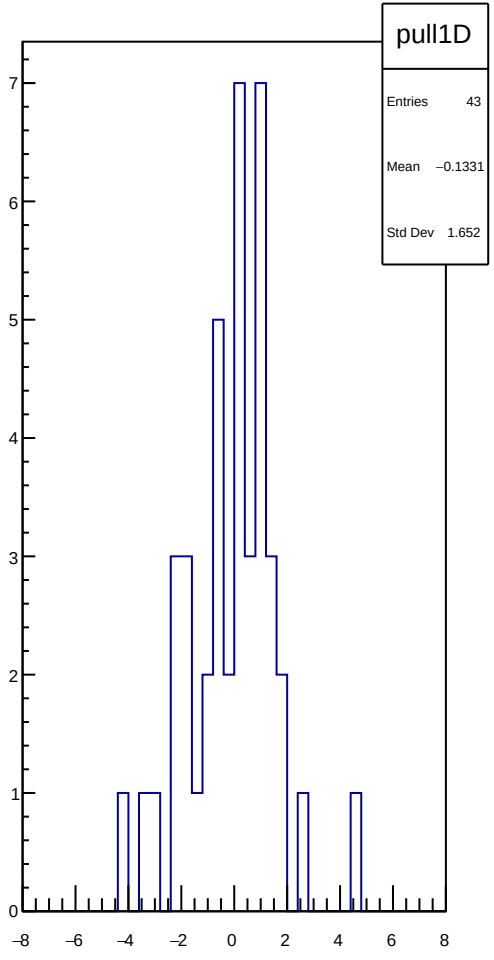

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 905.4 / 42
p0 −0.8386 ± 0.02823
pull
Entries 43
Mean −30.5
Std Dev 51.1
pull1D
Entries 43
Mean −0.8509
Std Dev 4.125

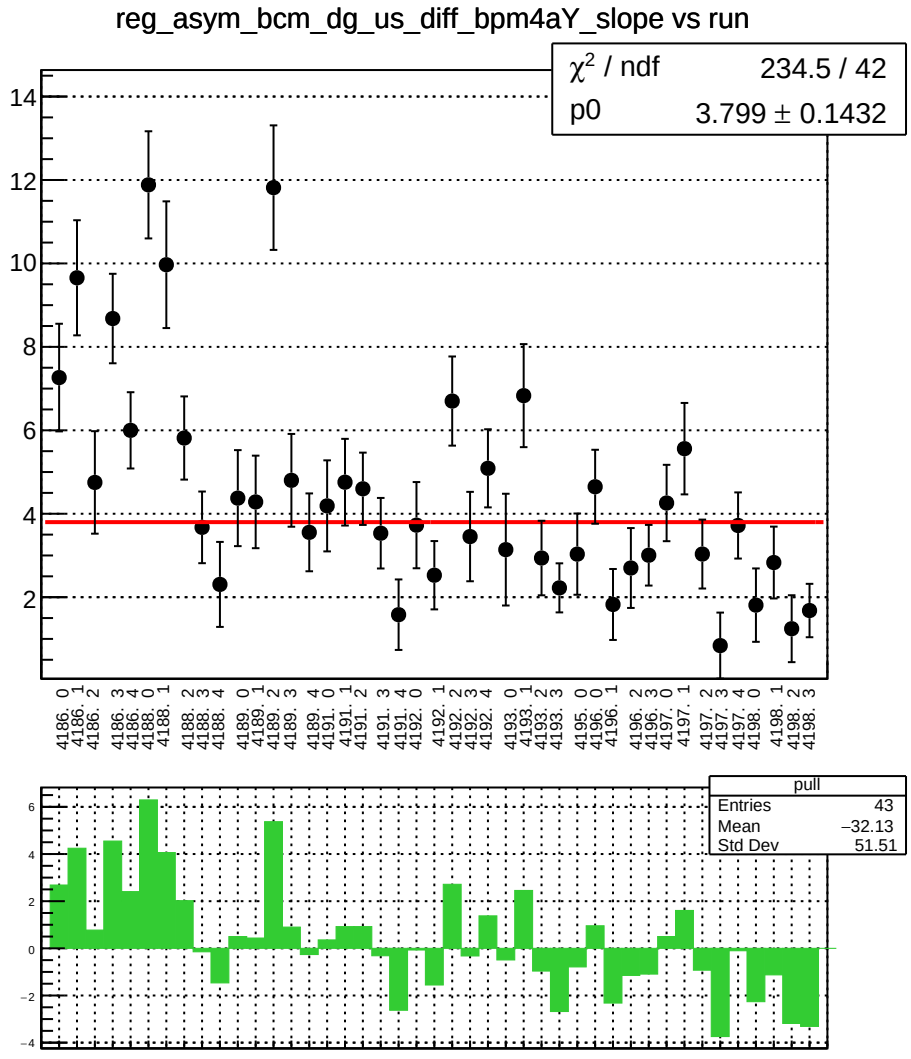

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 290.2 / 42
p0 −5.112 ± 0.2222
0
−5
−10
−15
−20
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −31.64
Std Dev 51.26
4
2
0
−2
−4
−6
pull1D
Entries 43
Mean −0.3957
Std Dev 2.567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

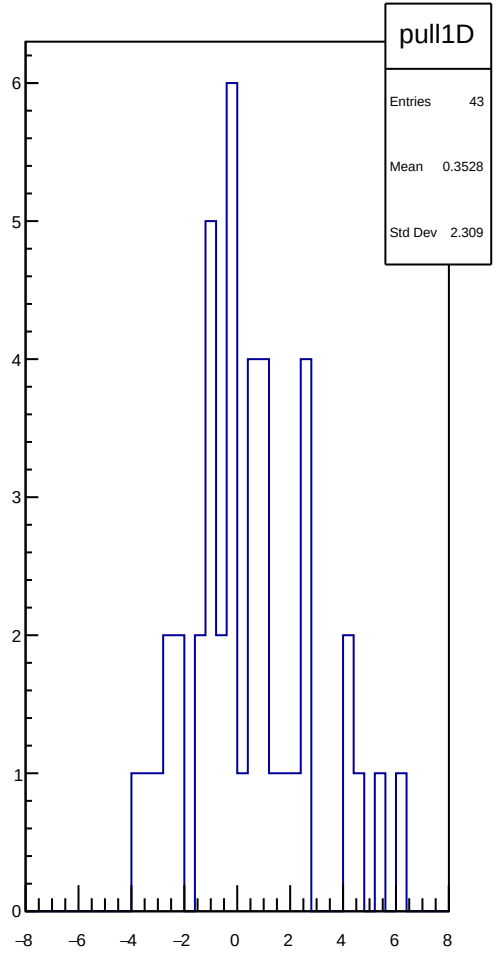

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 308.2 / 42
p0 0.3605 ± 0.04278
pull
Entries 43
Mean −45.46
Std Dev 65.56

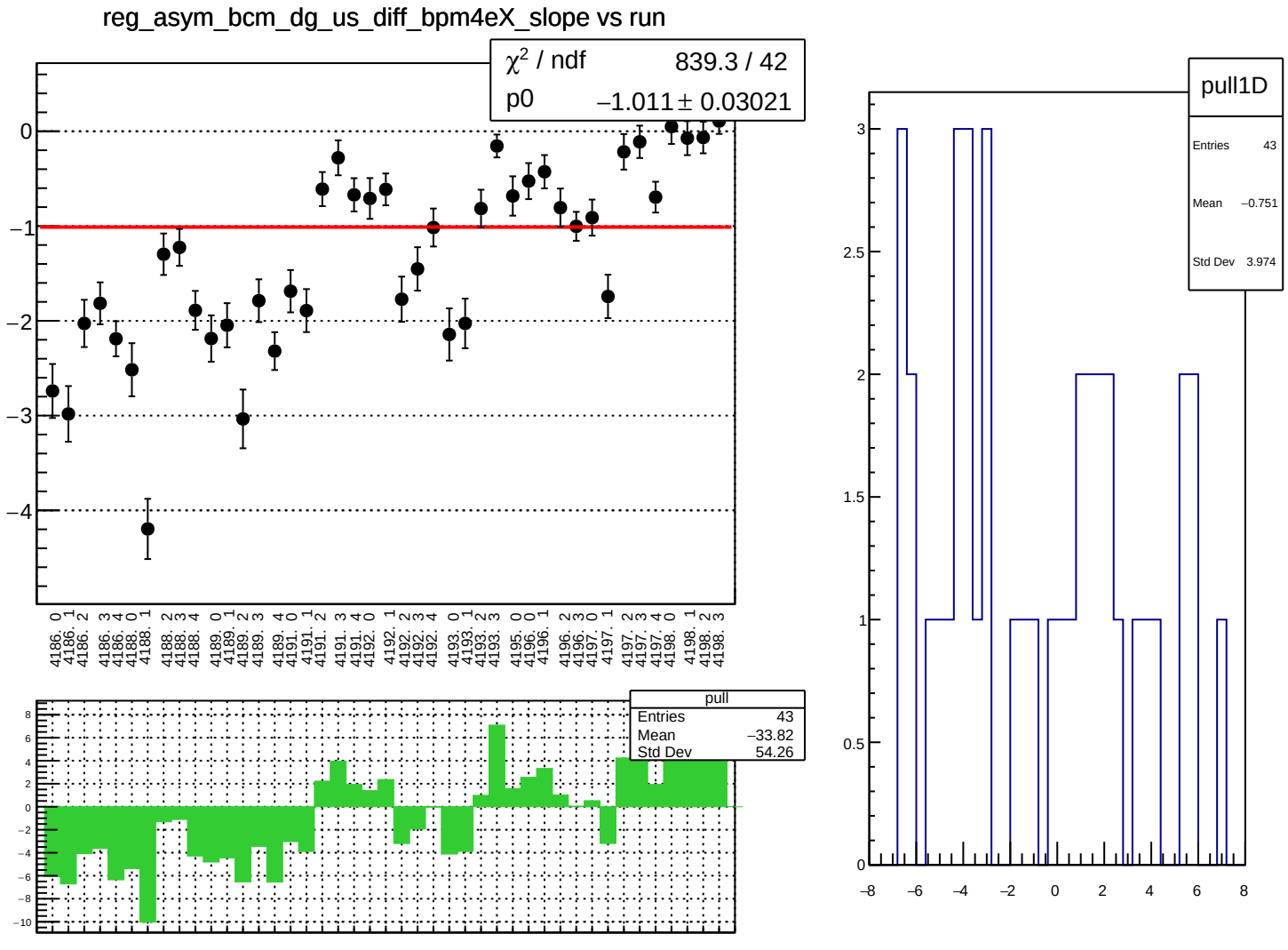

pull1D
Entries 43
Mean −0.3821
Std Dev 2.65

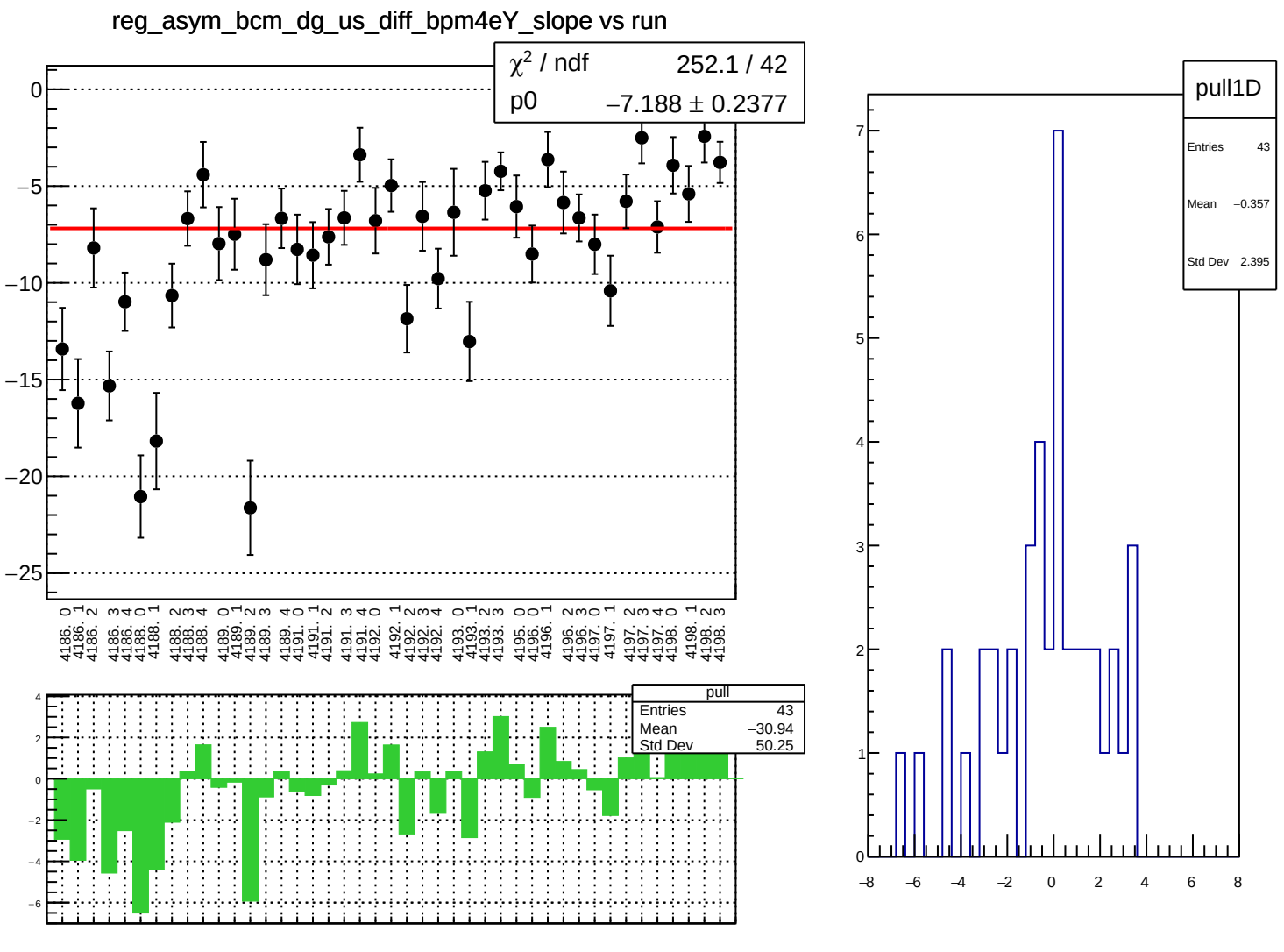

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 118 / 42
p0 −3.178 ± 0.1791
pull
Entries 43
Mean −1.075
Std Dev 26.68

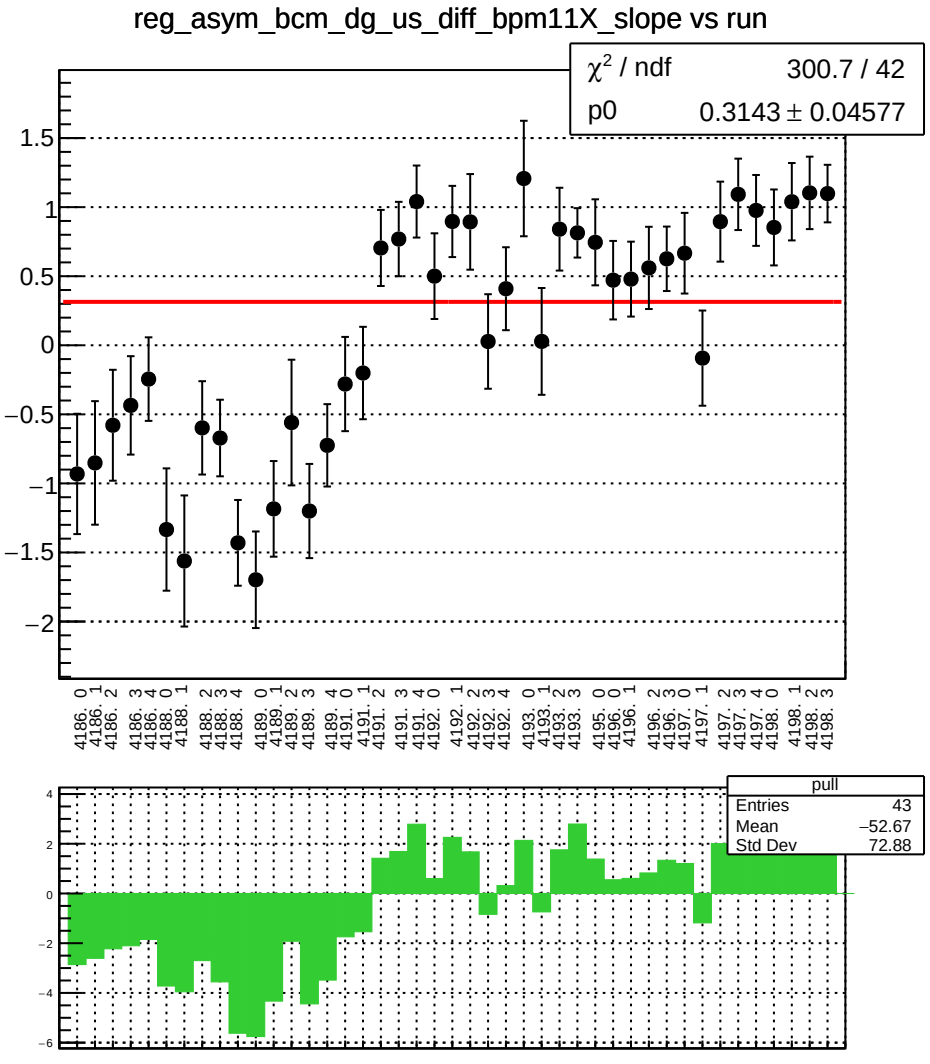

pull1D
Entries 43
Mean −0.1331
Std Dev 1.652

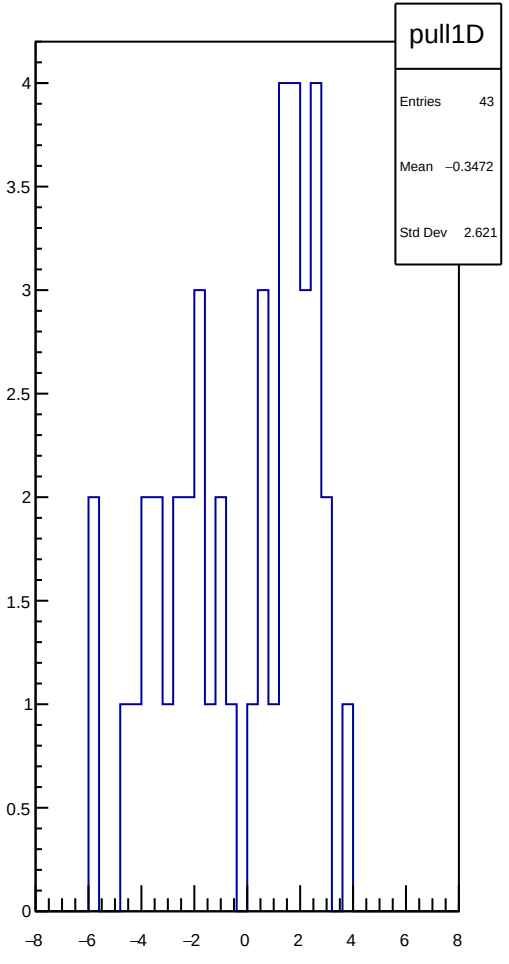

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 234.5 / 42
p0 3.799 ± 0.1432
pull
Entries 43
Mean −32.13
Std Dev 51.51

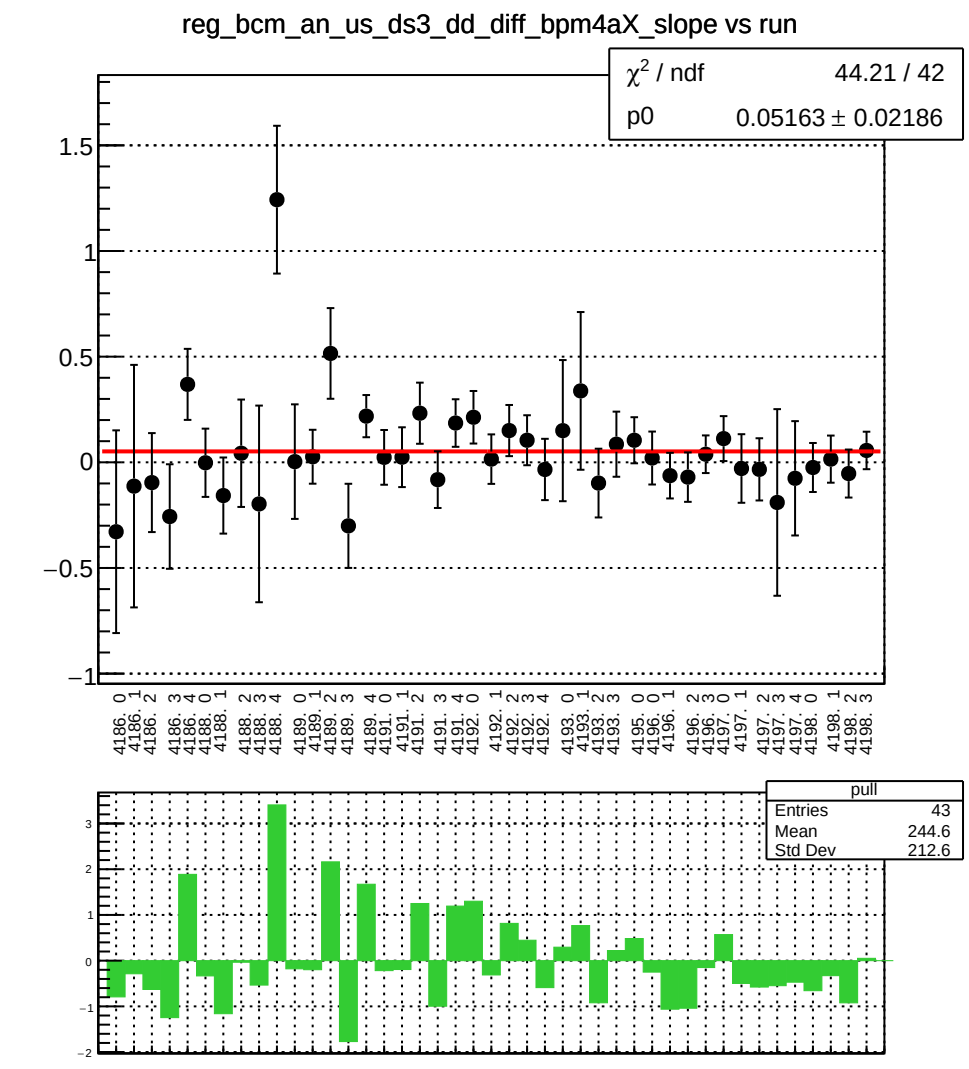

pull1D
Entries 43
Mean 0.3528
Std Dev 2.309

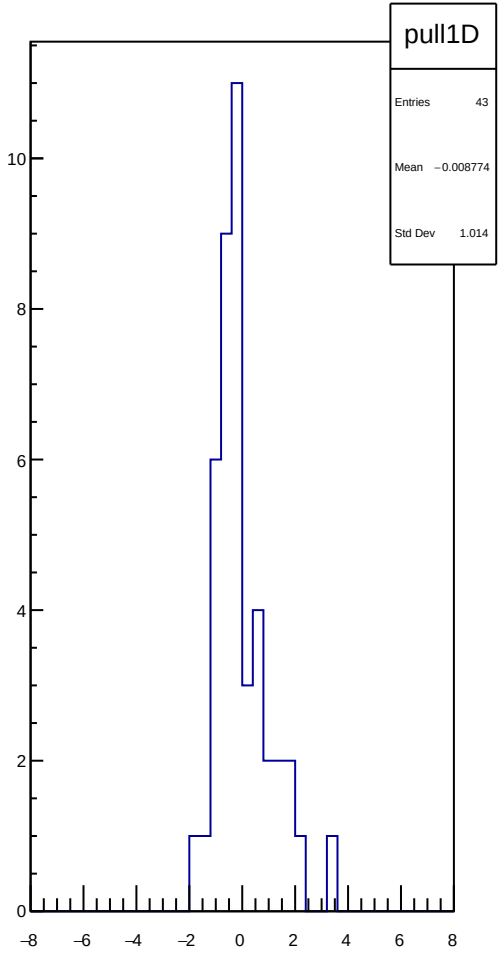

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 839.3 / 42
p0 −1.011 ± 0.03021
pull
Entries 43
Mean −33.82
Std Dev 54.26
pull1D
Entries 43
Mean −0.751
Std Dev 3.974

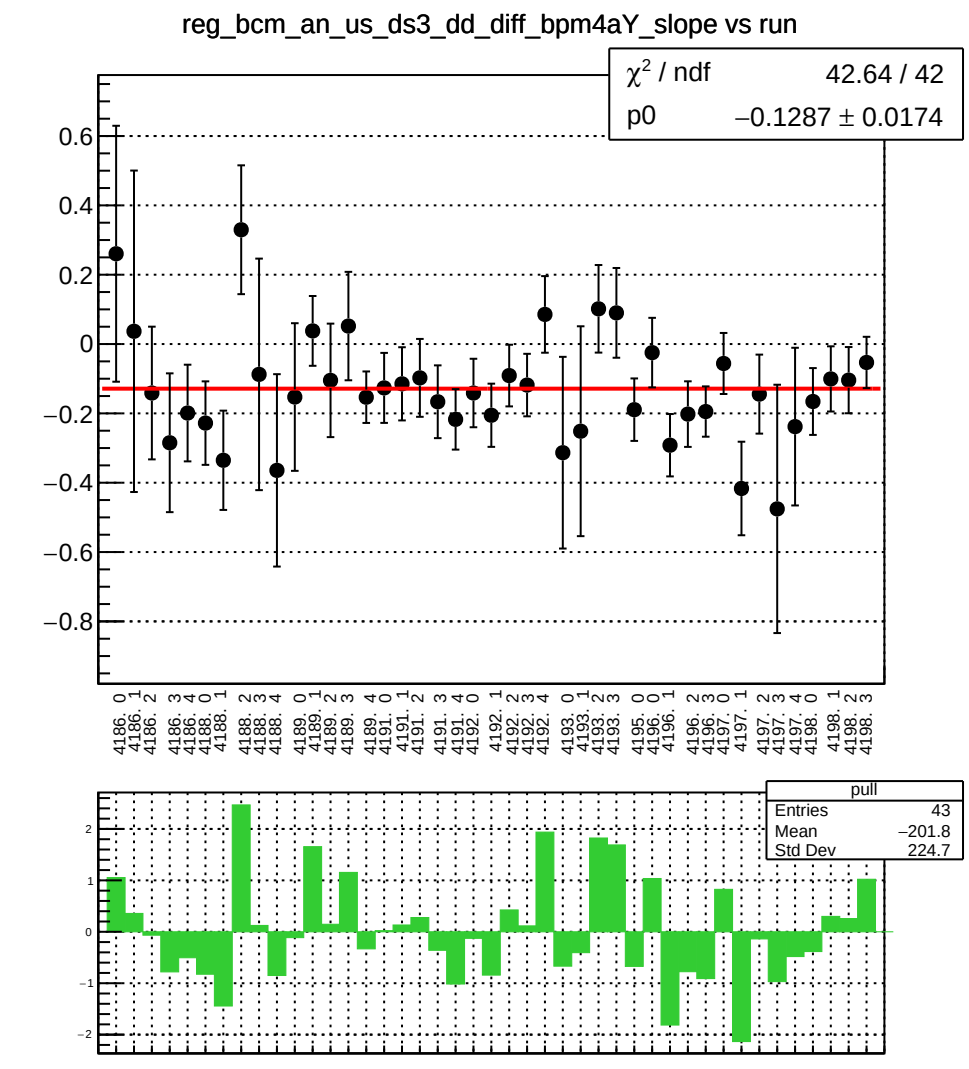

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 252.1 / 42
p0 −7.188 ± 0.2377
0
−5
−10
−15
−20
−25
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −30.94
Std Dev 50.25
4
2
0
−2
−4
−6
pull1D
Entries 43
Mean −0.357
Std Dev 2.395
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

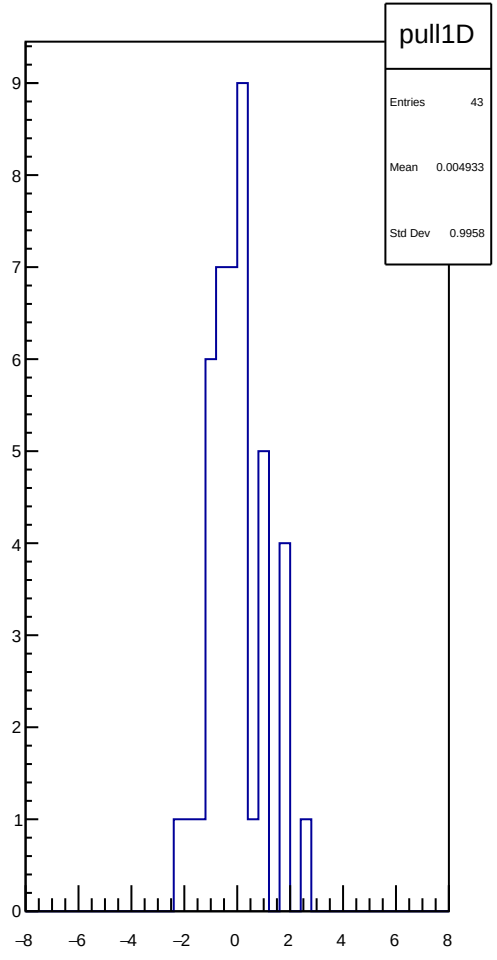

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 300.7 / 42
p0 0.3143 ± 0.04577
pull
Entries 43
Mean −52.67
Std Dev 72.88

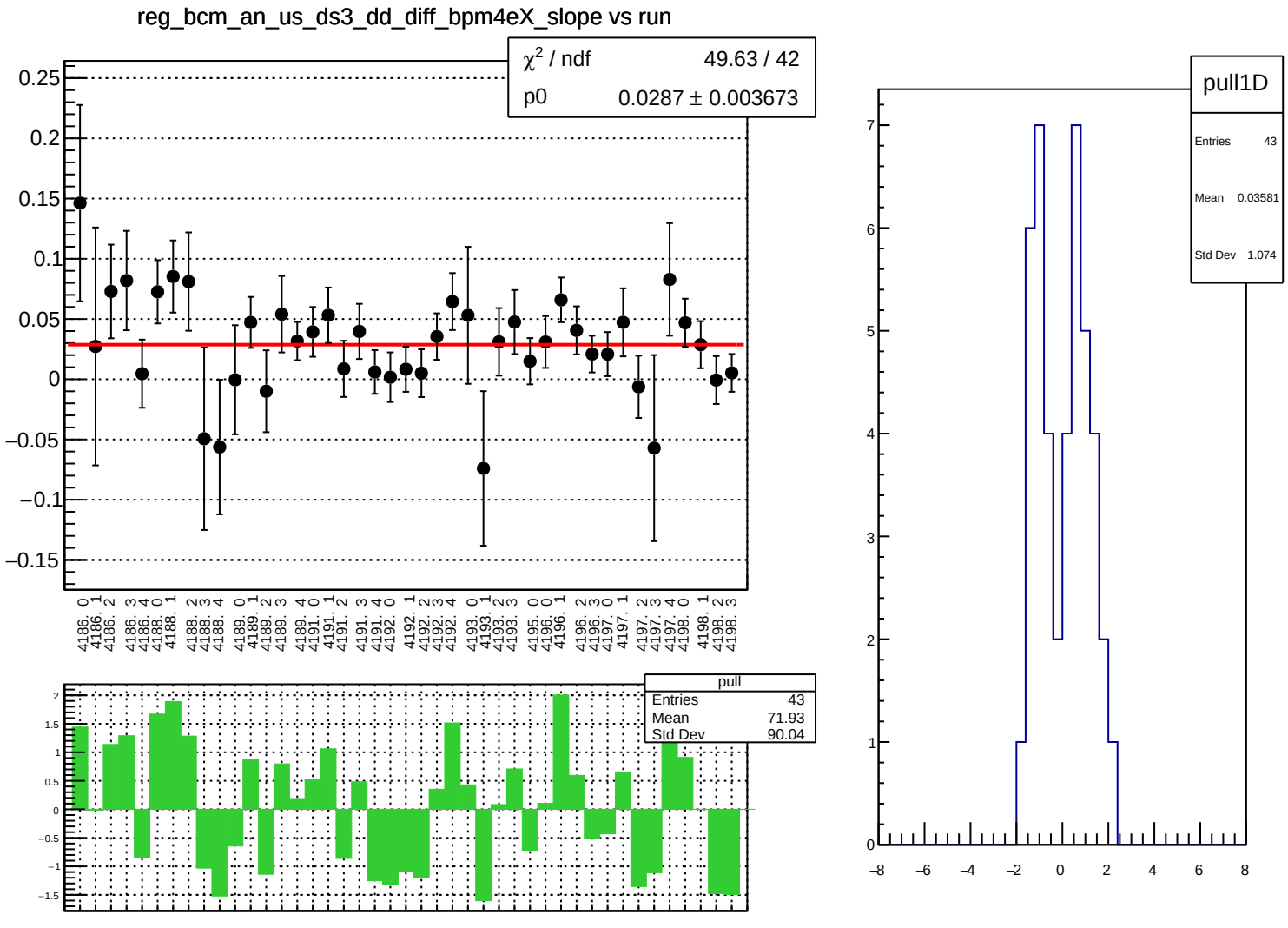

pull1D
Entries 43
Mean −0.3472
Std Dev 2.621

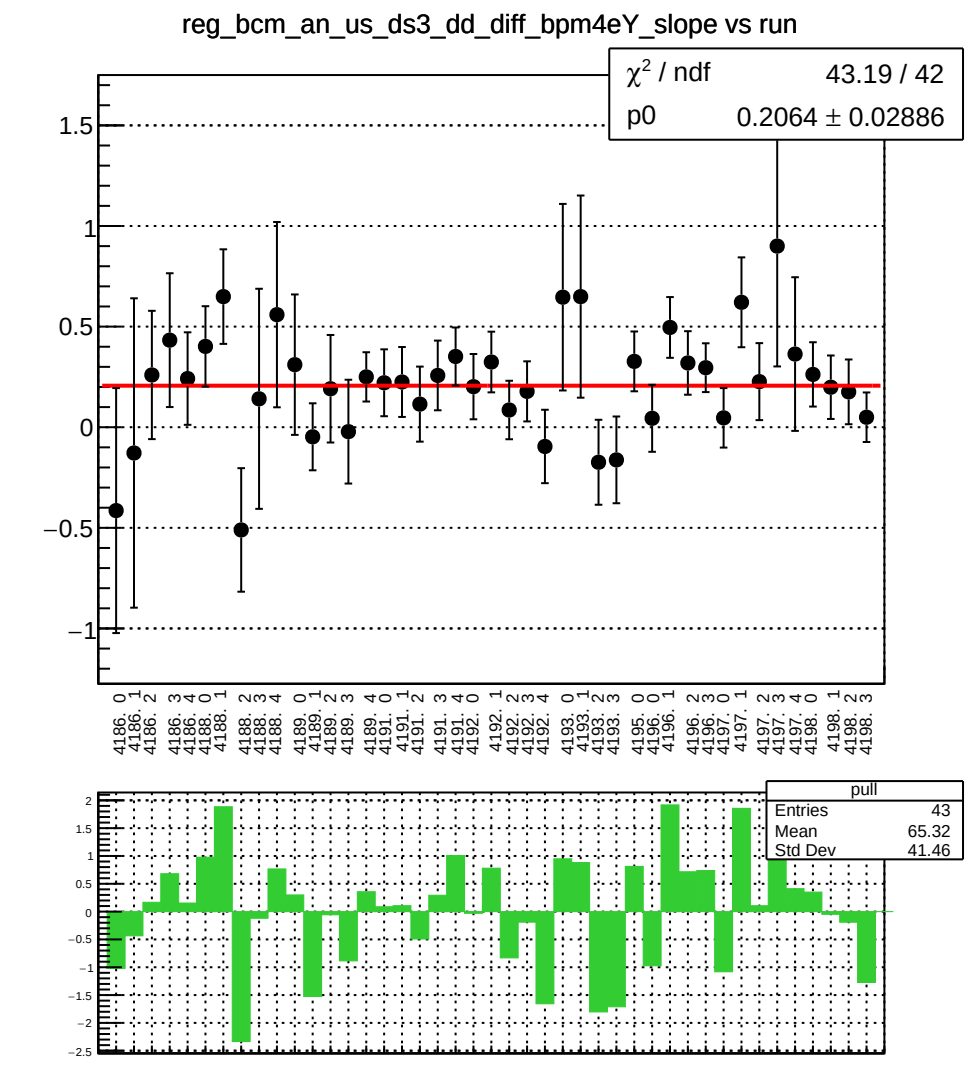

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 44.21 / 42
p0 0.05163 ± 0.02186
1.5
1
0.5
0
−0.5
−1
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 244.6
Std Dev 212.6
3
2
1
0
−1
−2

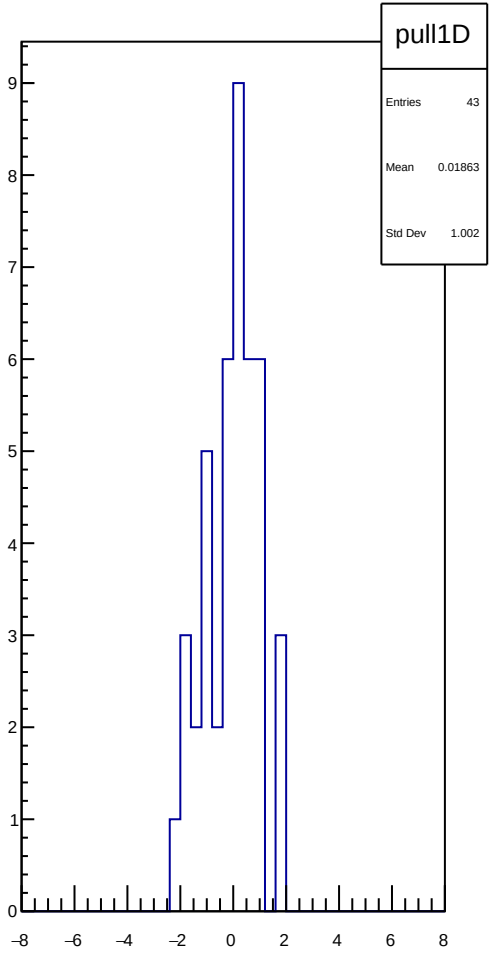

pull1D
Entries 43
Mean −0.008774
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

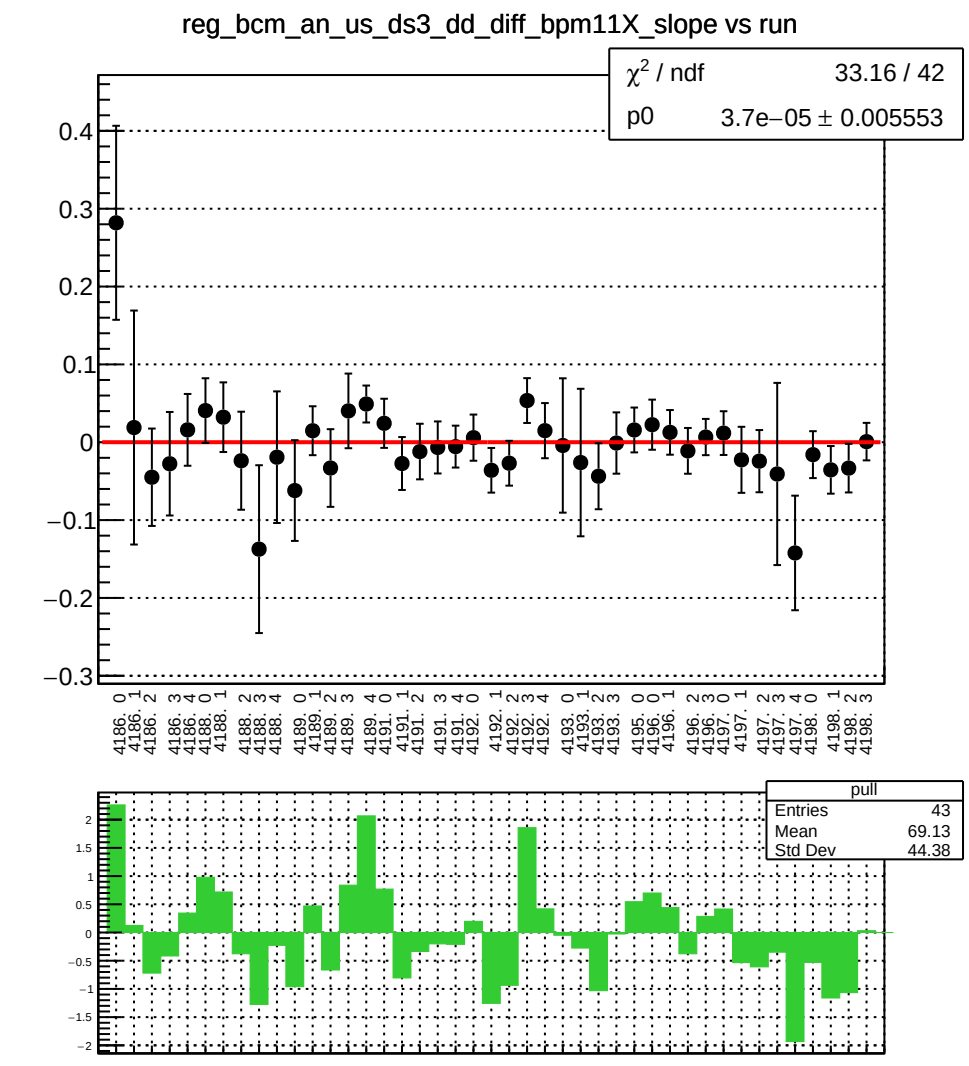

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.64 / 42
p0 −0.1287 ± 0.0174
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −201.8
Std Dev 224.7
2
1
0
−1
−2

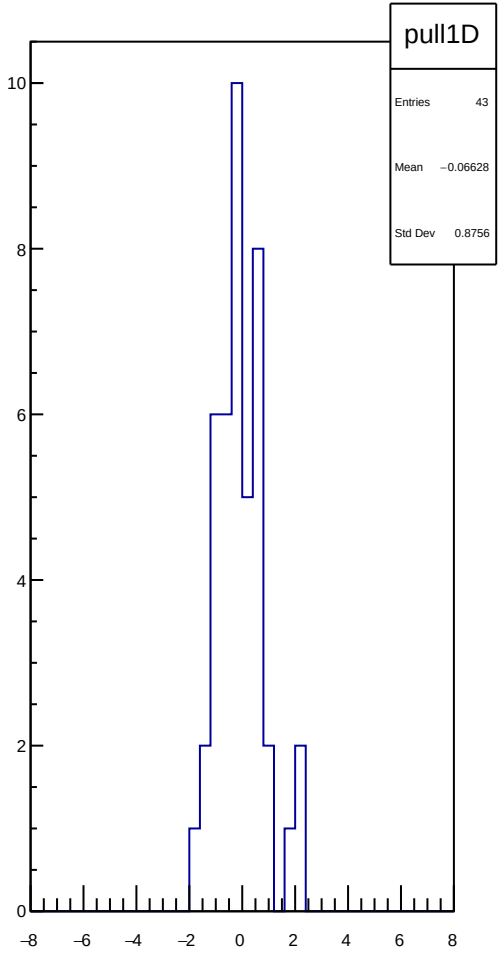

pull1D
Entries 43
Mean 0.004933
Std Dev 0.9958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

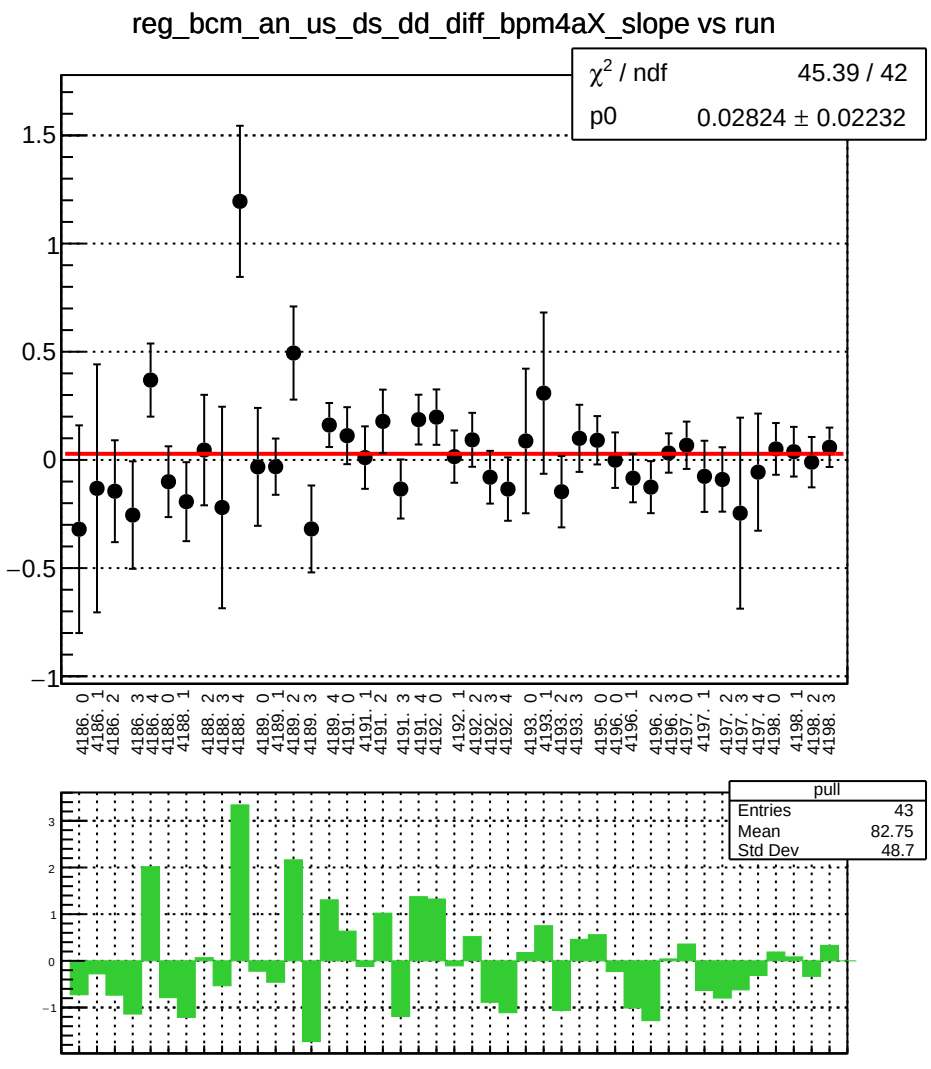

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.63 / 42
p0 0.0287 ± 0.003673
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −71.93
Std Dev 90.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03581
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

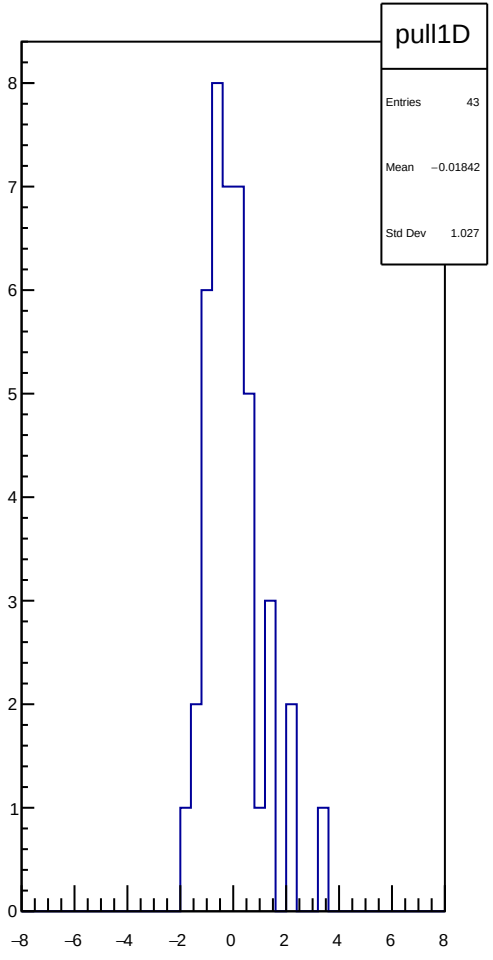

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.19 / 42
p0 0.2064 ± 0.02886
pull
Entries 43
Mean 65.32
Std Dev 41.46

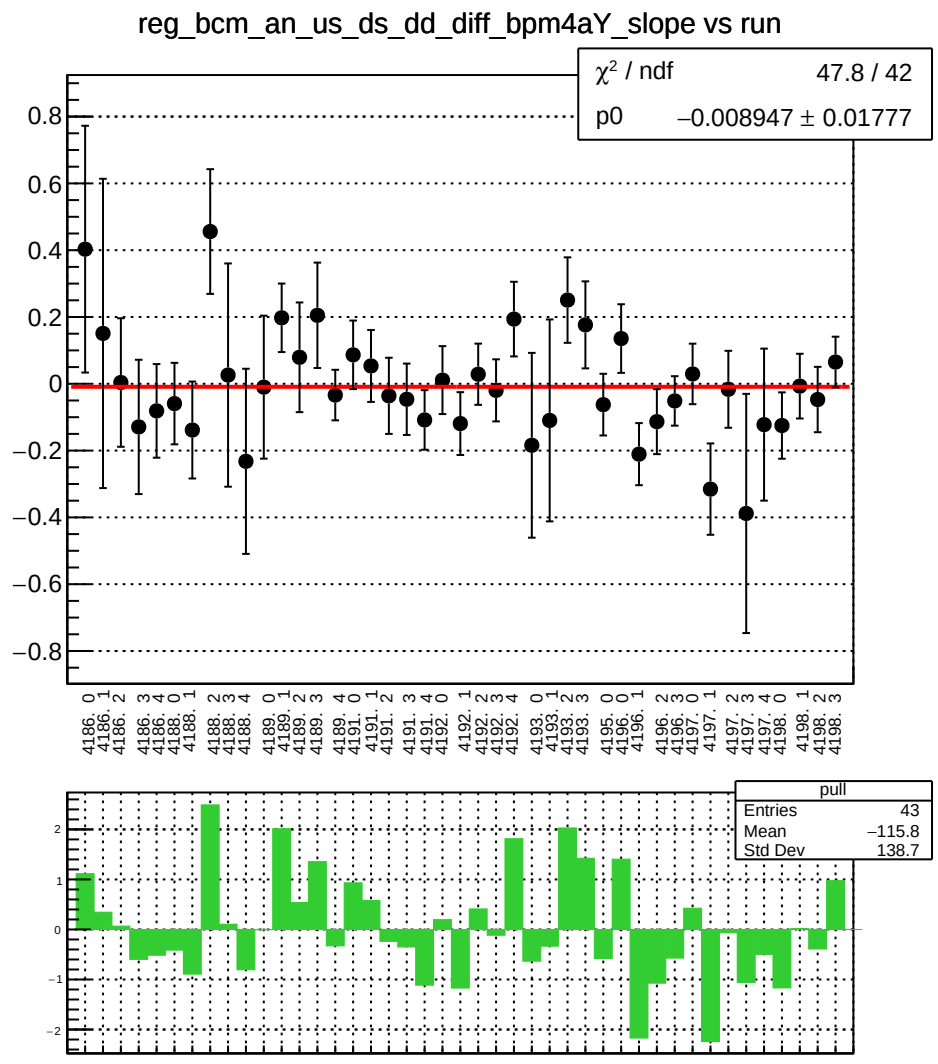

pull1D
Entries 43
Mean 0.01863
Std Dev 1.002

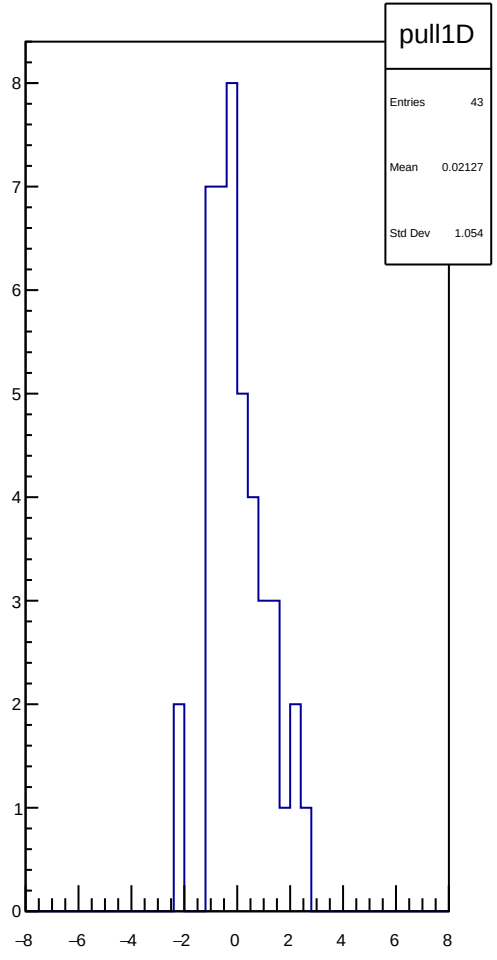

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 33.16 / 42
p0 3.7e−05 ± 0.005553
pull
Entries 43
Mean 69.13
Std Dev 44.38

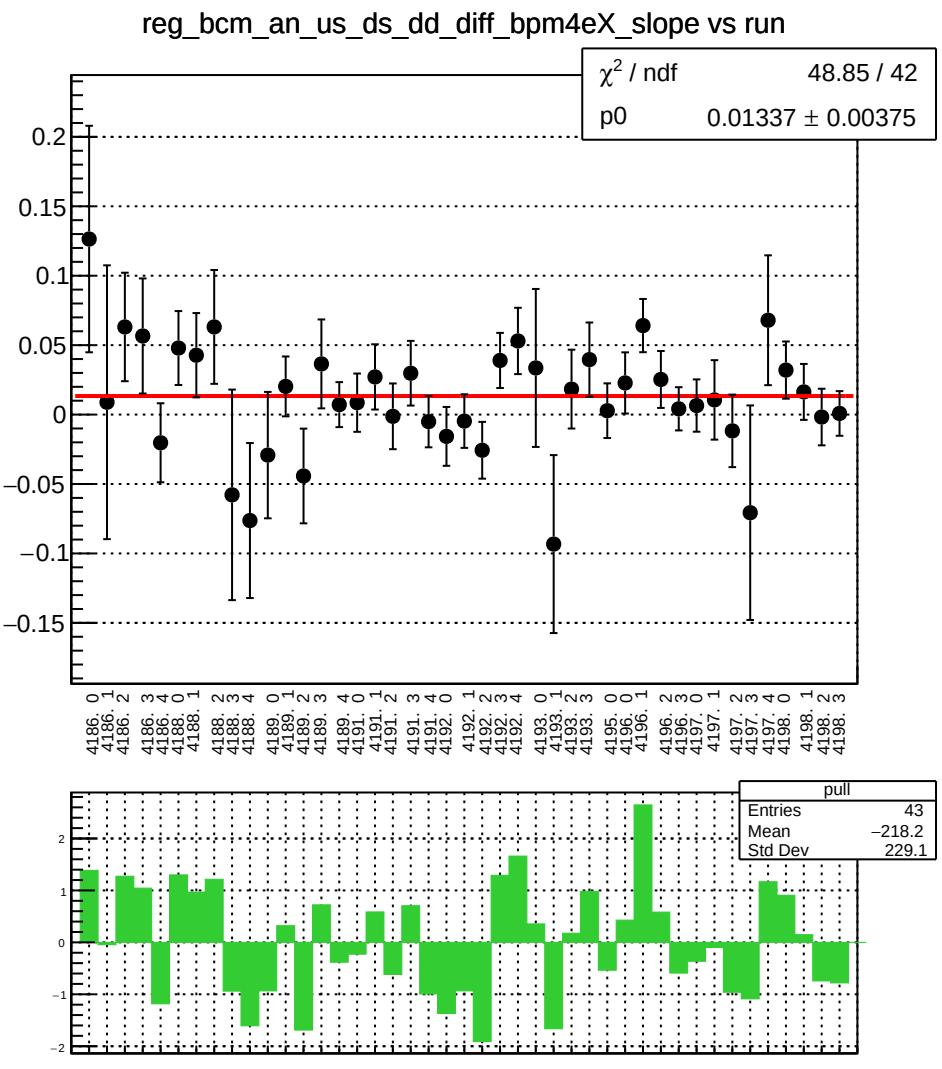

pull1D
Entries 43
Mean −0.06628
Std Dev 0.8756

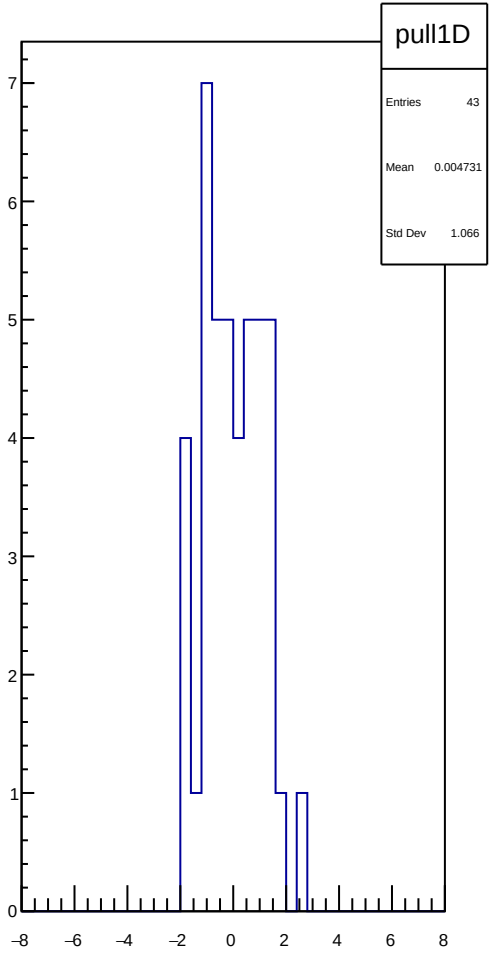

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.39 / 42
p0 0.02824 ± 0.02232
pull
Entries 43
Mean 82.75
Std Dev 48.7

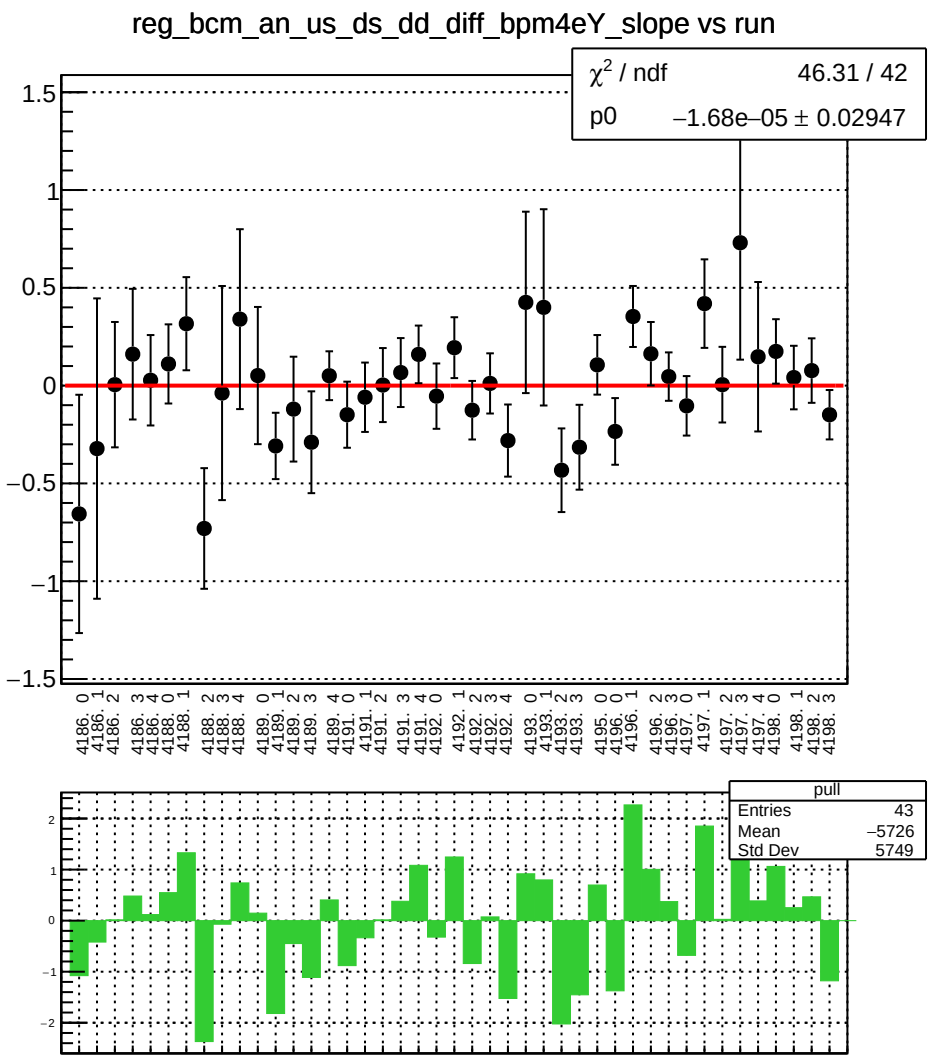

pull1D
Entries 43
Mean −0.01842
Std Dev 1.027

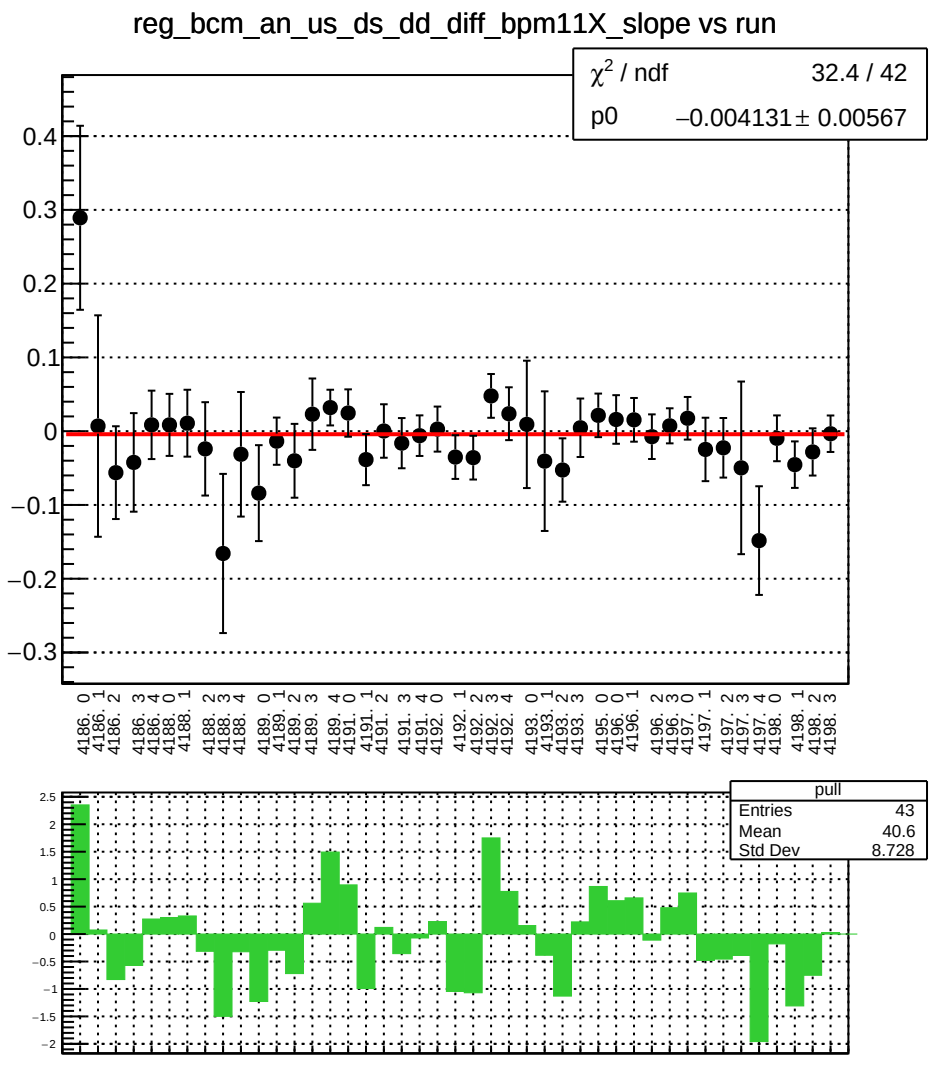

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.8 / 42
p0 −0.008947 ± 0.01777
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −115.8
Std Dev 138.7
2
1
0
−1
−2

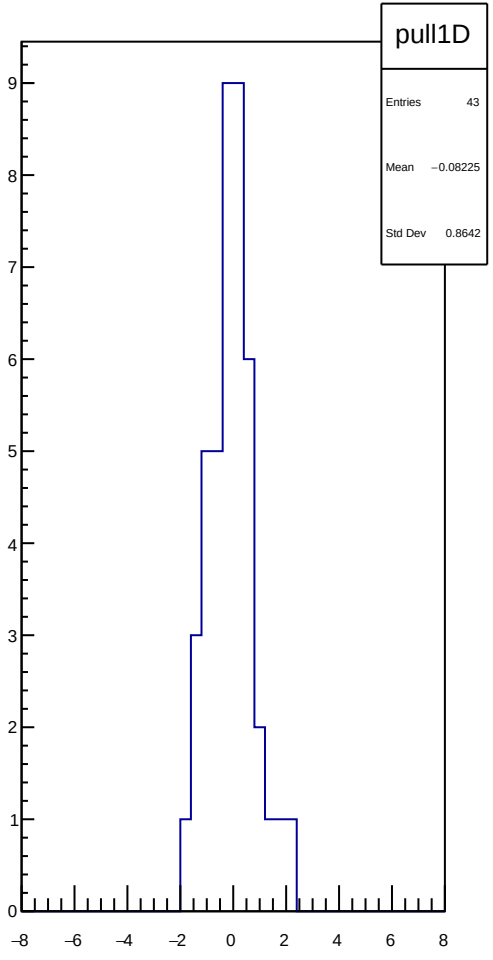

pull1D
Entries 43
Mean 0.02127
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

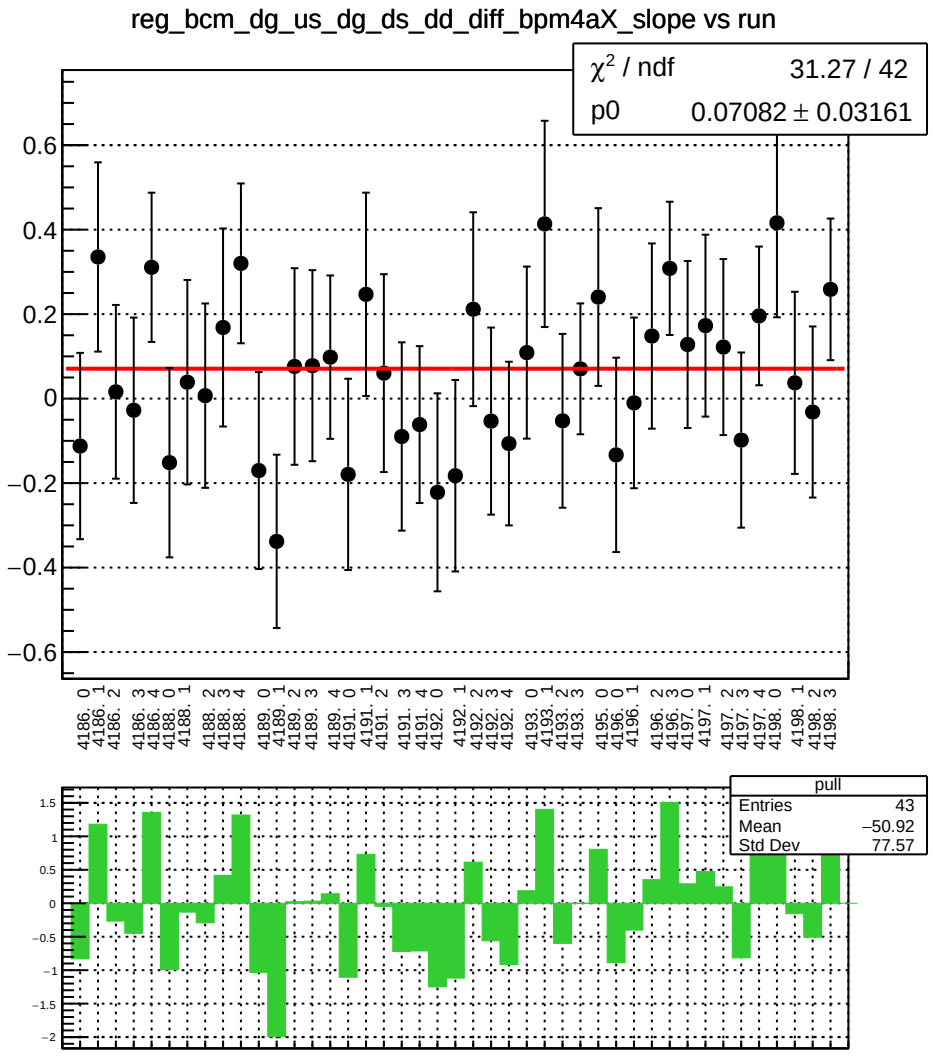

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.85 / 42
p0 0.01337 ± 0.00375
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −218.2
Std Dev 229.1
2
1
0
−1
−2

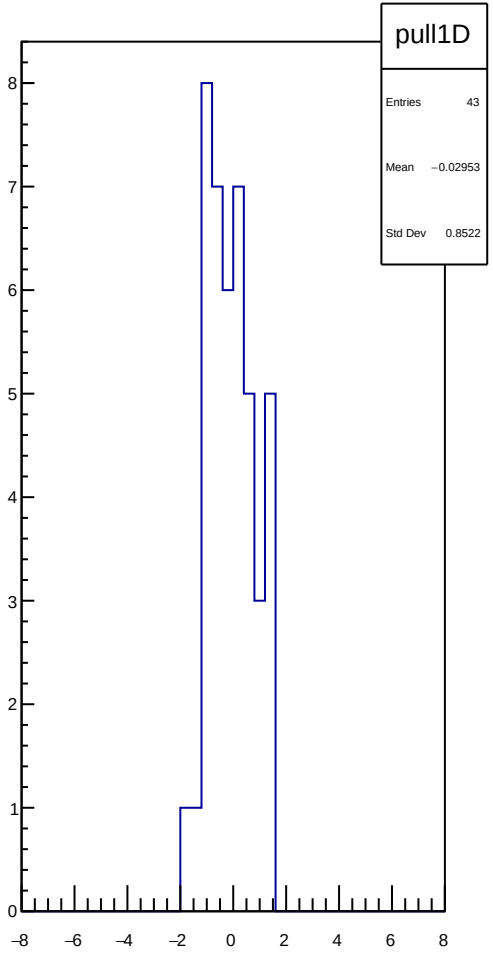

pull1D
Entries 43
Mean 0.004731
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

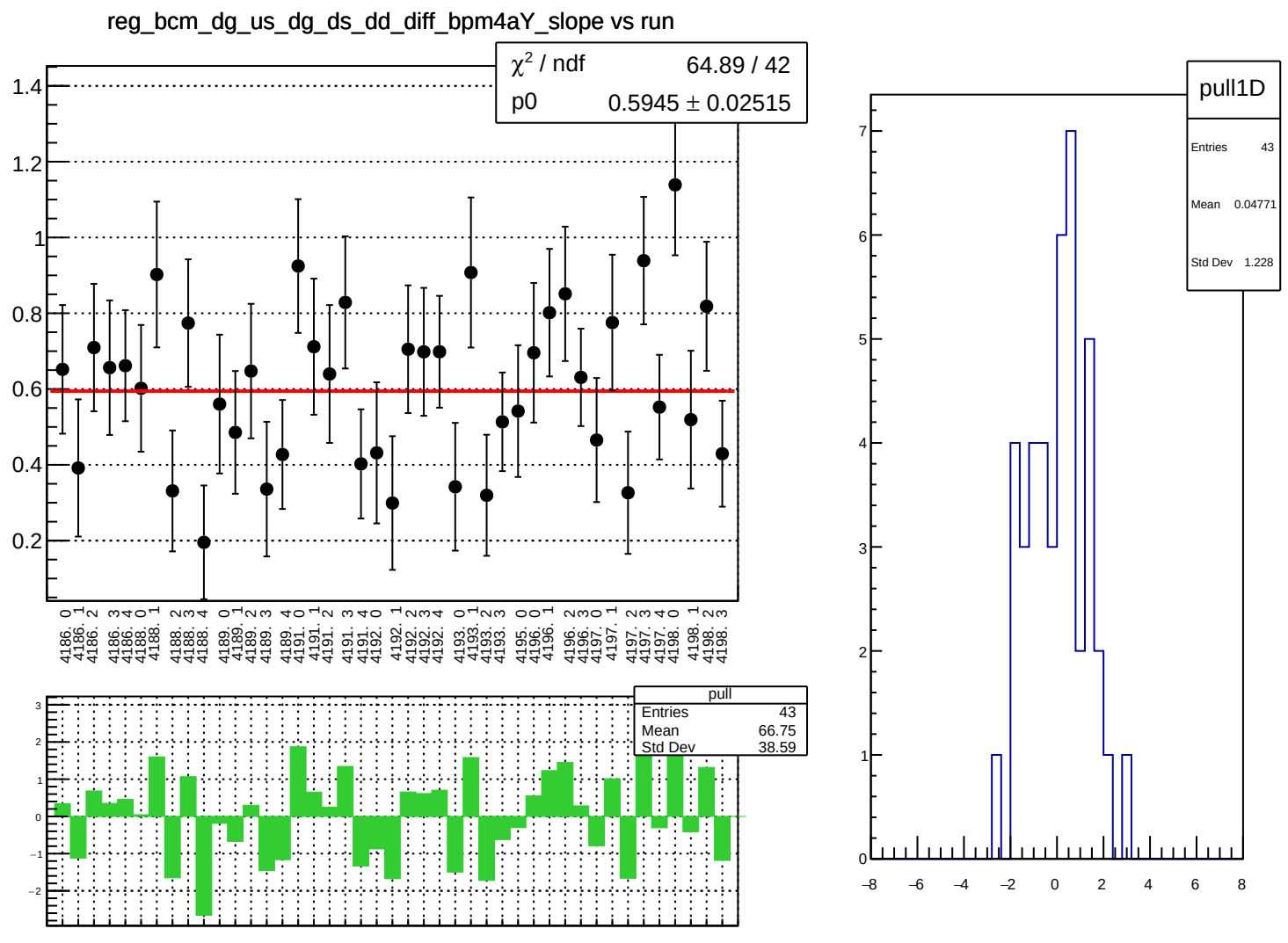

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.31 / 42
p0 −1.68e−05 ± 0.02947
pull
Entries 43
Mean −5726
Std Dev 5749
pull1D
Entries 43
Mean −0.0004479
Std Dev 1.038

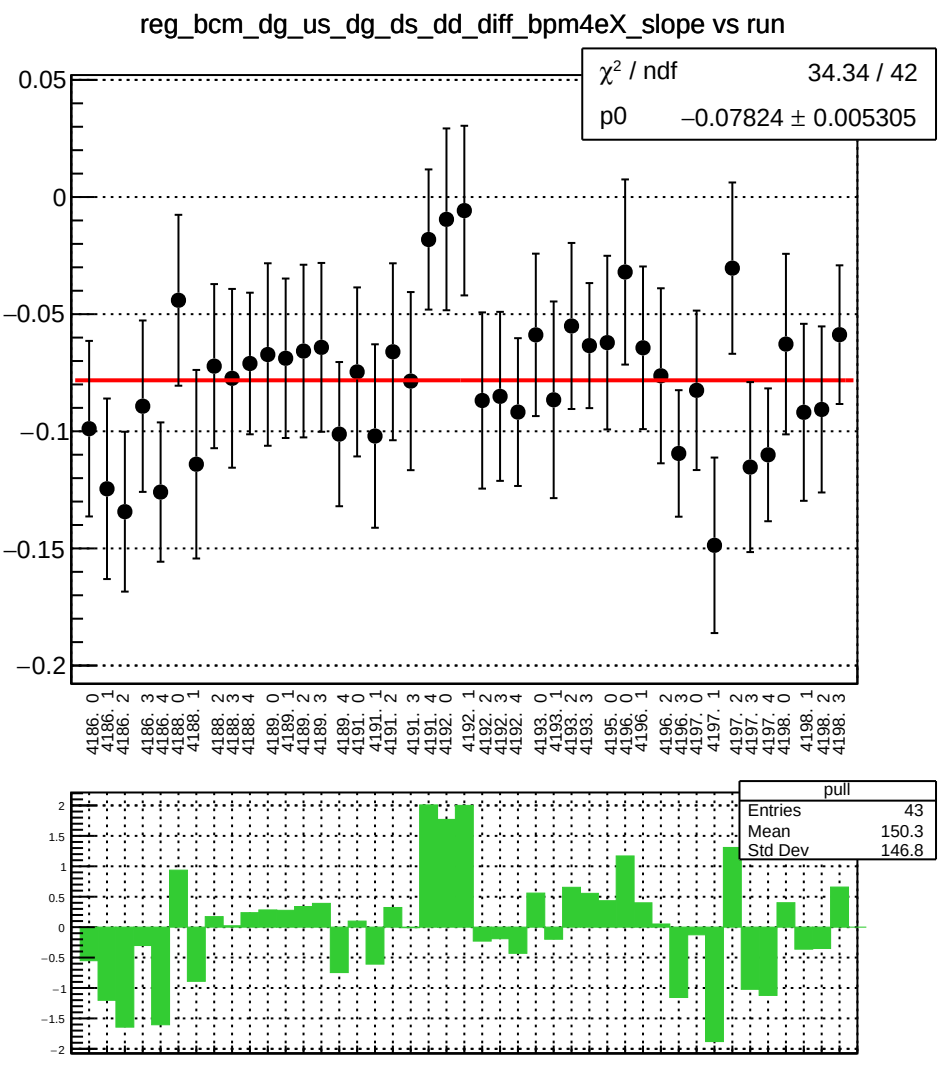

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 32.4 / 42
p0 −0.004131 ± 0.00567
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 40.6
Std Dev 8.728
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

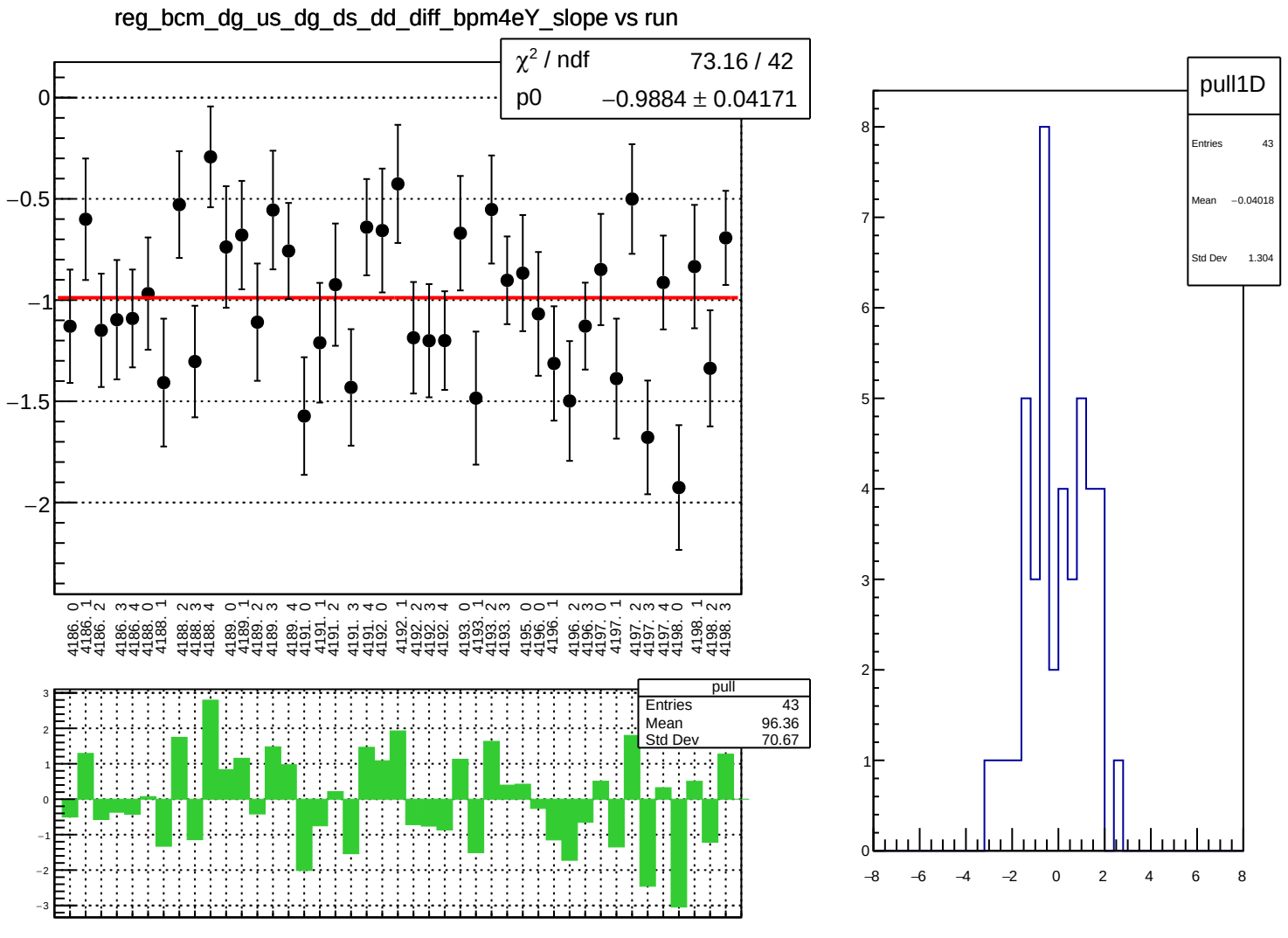

pull1D
Entries 43
Mean −0.08225
Std Dev 0.8642
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

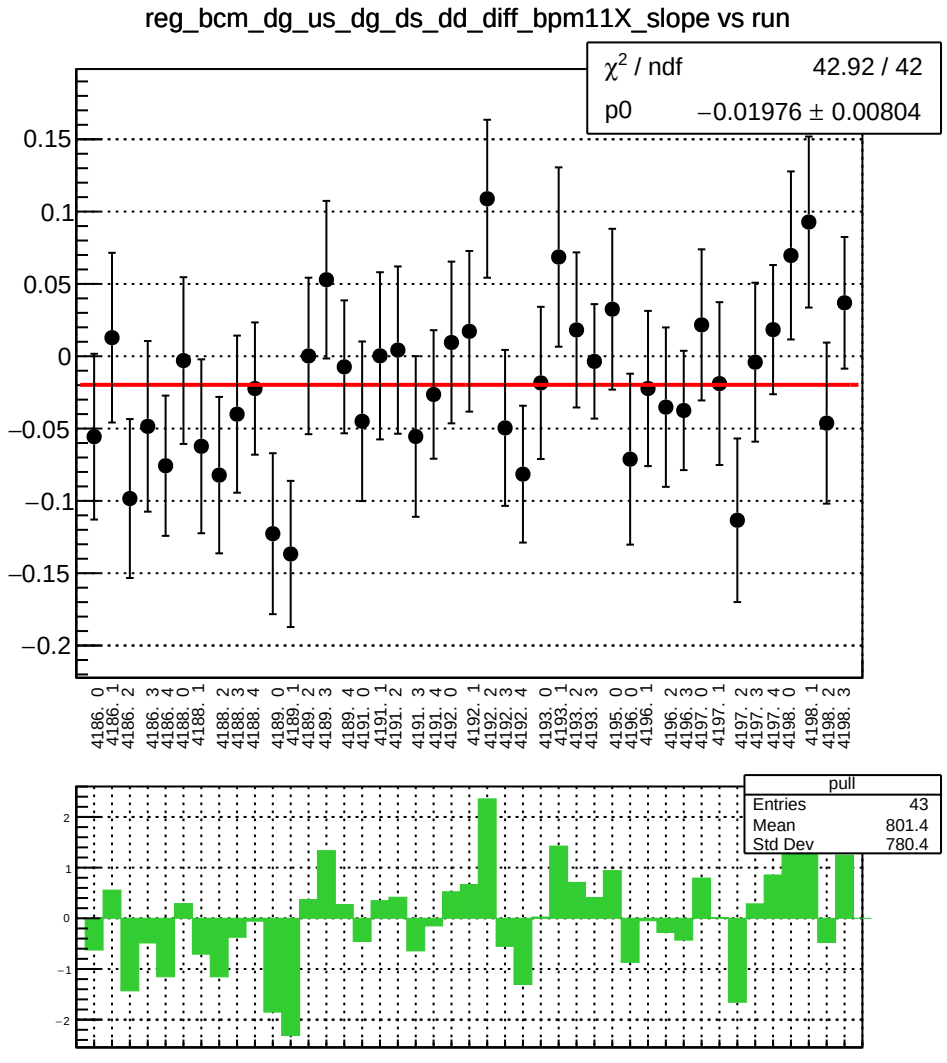

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.27 / 42
p0 0.07082 ± 0.03161
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −50.92
Std Dev 77.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

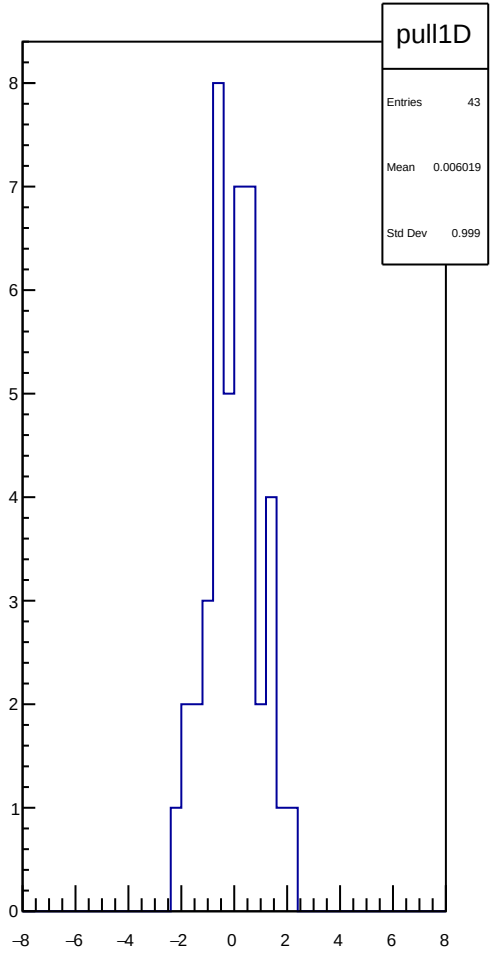

pull1D
Entries 43
Mean −0.02953
Std Dev 0.8522
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

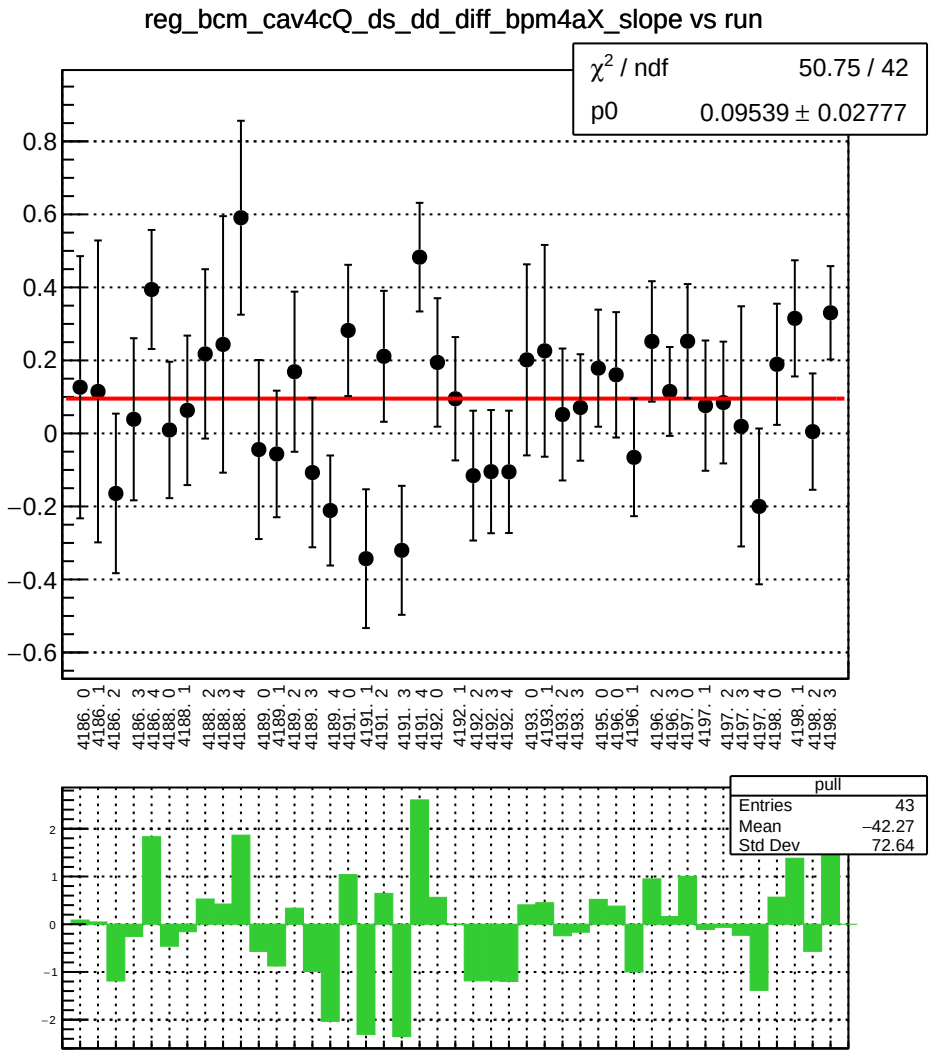

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.89 / 42
p0 0.5945 ± 0.02515
pull
Entries 43
Mean 66.75
Std Dev 38.59
pull1D
Entries 43
Mean 0.04771
Std Dev 1.228

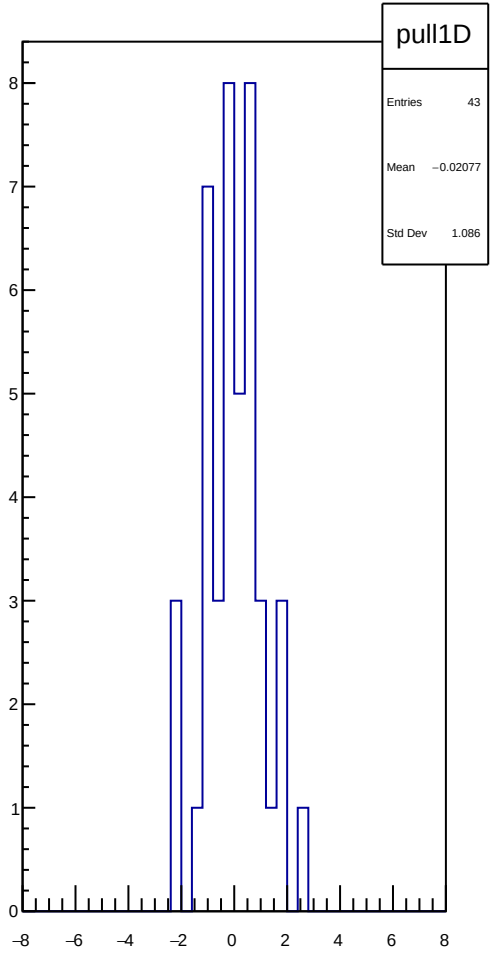

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.34 / 42
p0 −0.07824 ± 0.005305
0.05
0
−0.05
−0.1
−0.15
−0.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 150.3
Std Dev 146.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01015
Std Dev 0.8936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

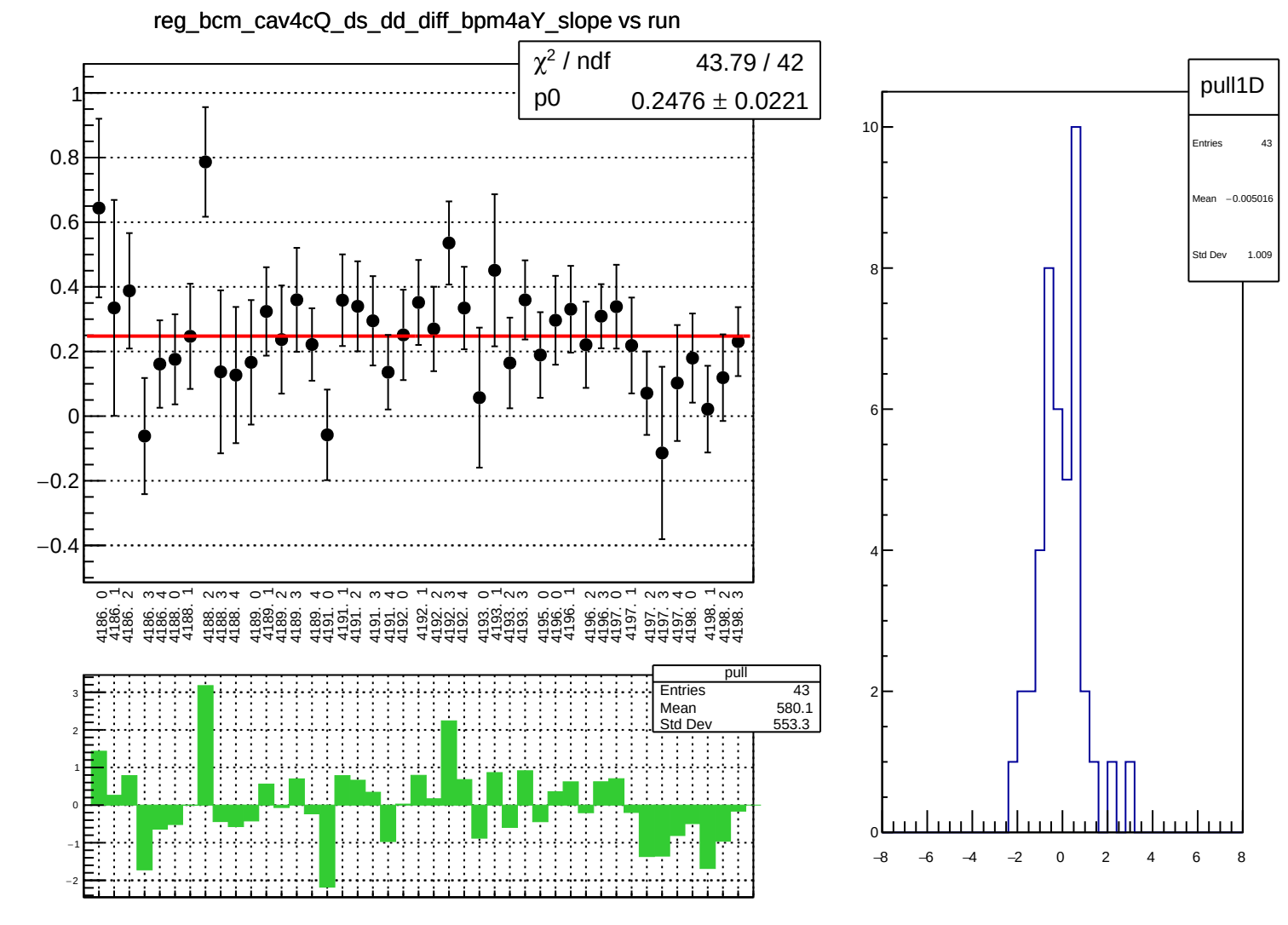

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.16 / 42
p0 −0.9884 ± 0.04171
0
−0.5
−1
−1.5
−2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 96.36
Std Dev 70.67
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.04018
Std Dev 1.304
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

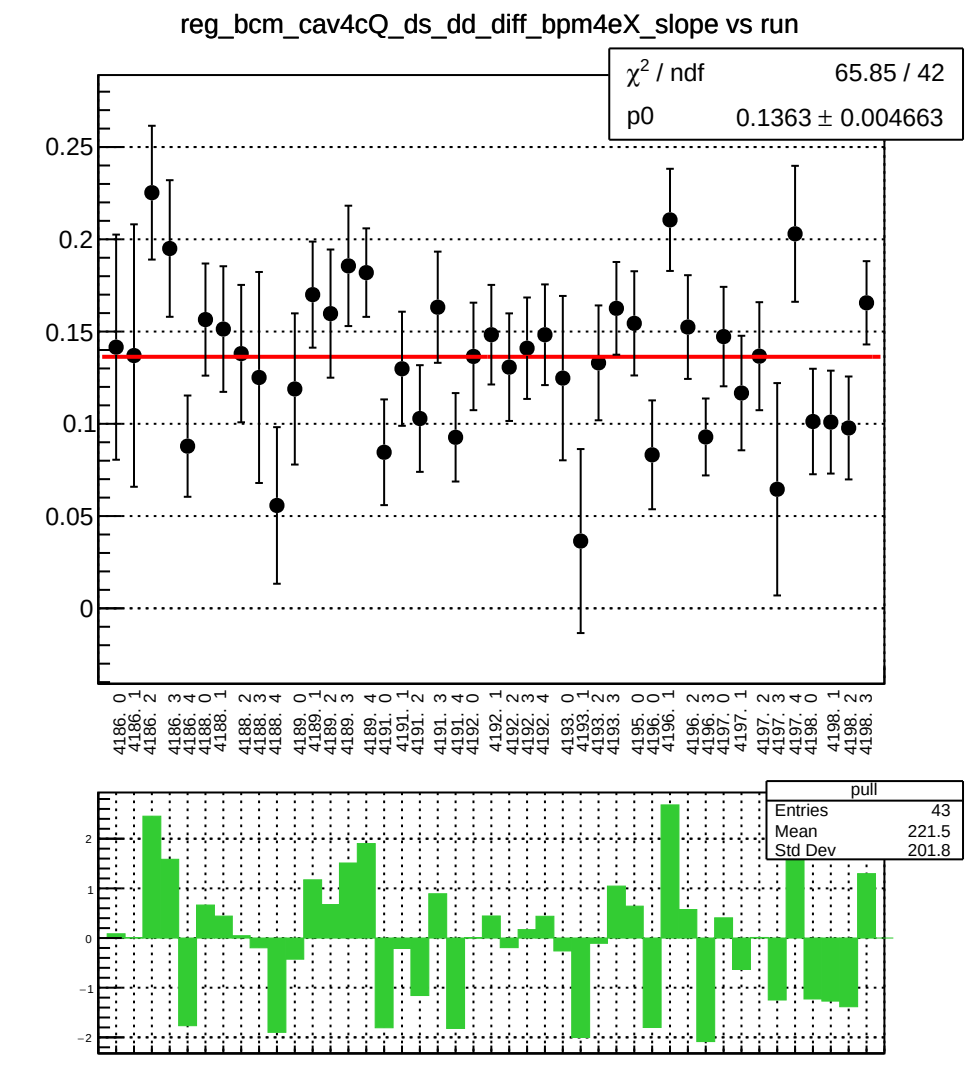

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 42.92 / 42
p0 −0.01976 ± 0.00804
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 801.4
Std Dev 780.4
2
1
0
−1
−2

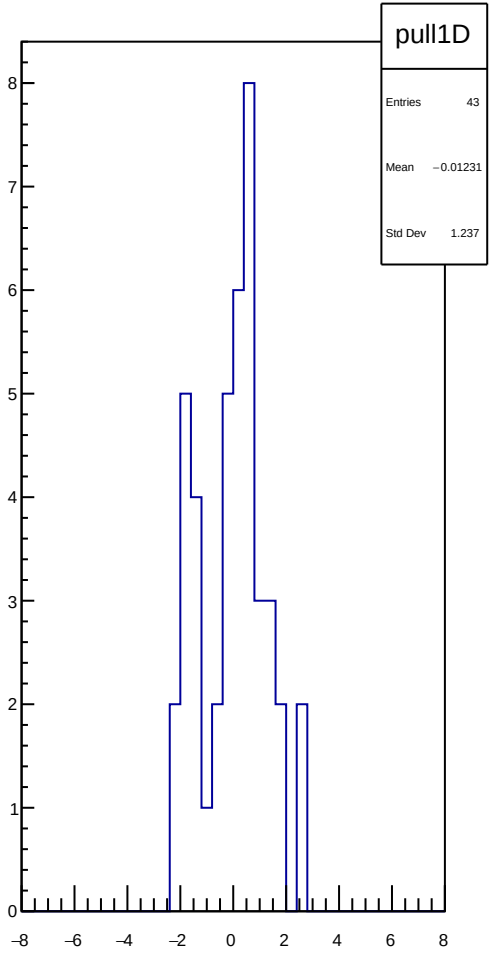

pull1D
Entries 43
Mean 0.006019
Std Dev 0.999
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

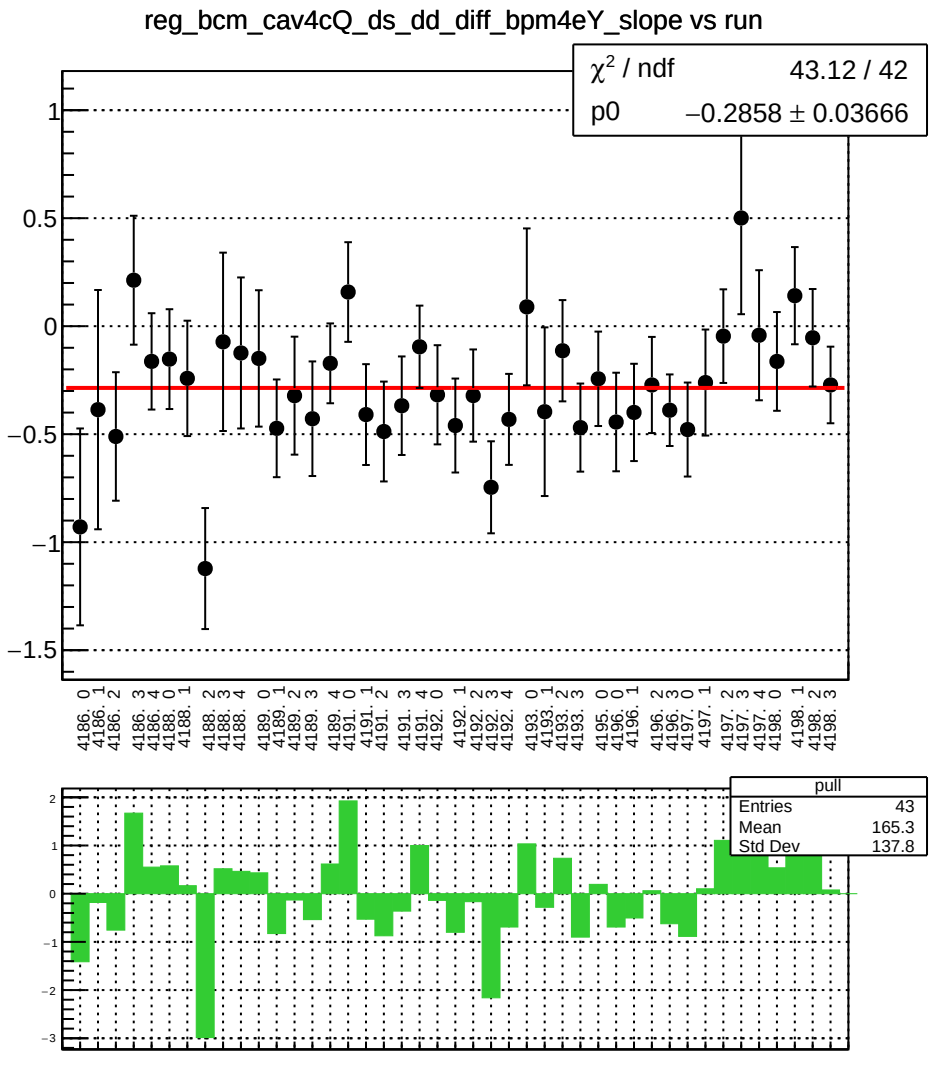

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.75 / 42
p0 0.09539 ± 0.02777
pull
Entries 43
Mean −42.27
Std Dev 72.64

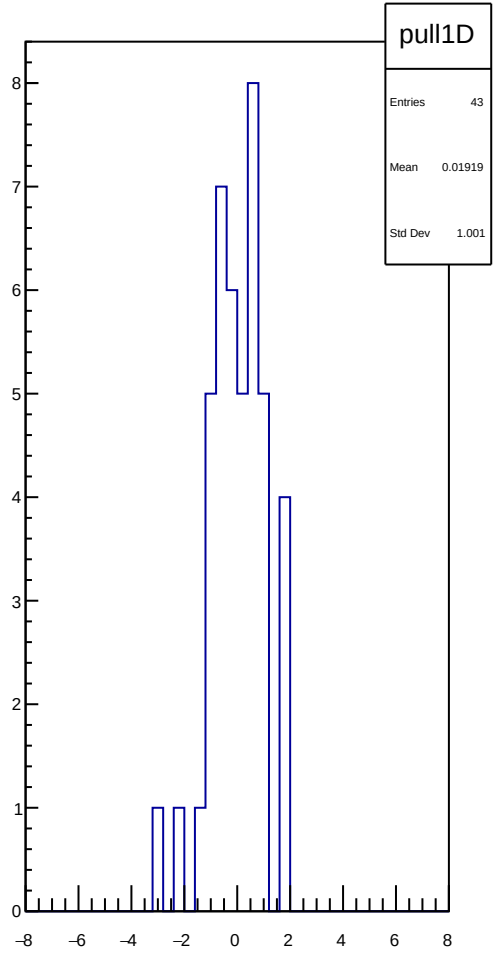

pull1D
Entries 43
Mean −0.02077
Std Dev 1.086

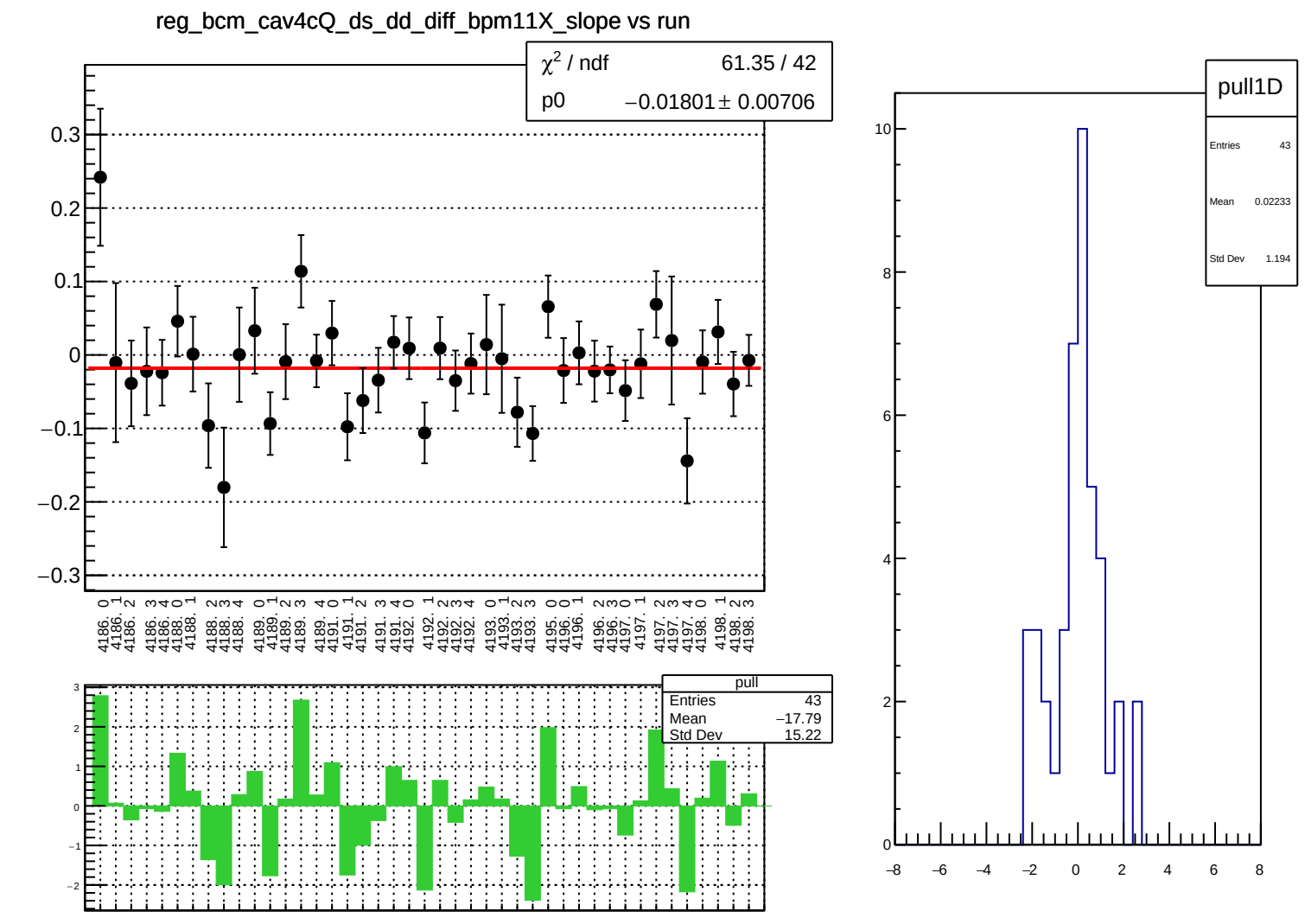

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.79 / 42
p0 0.2476 ± 0.0221
pull
Entries 43
Mean 580.1
Std Dev 553.3
pull1D
Entries 43
Mean −0.005016
Std Dev 1.009

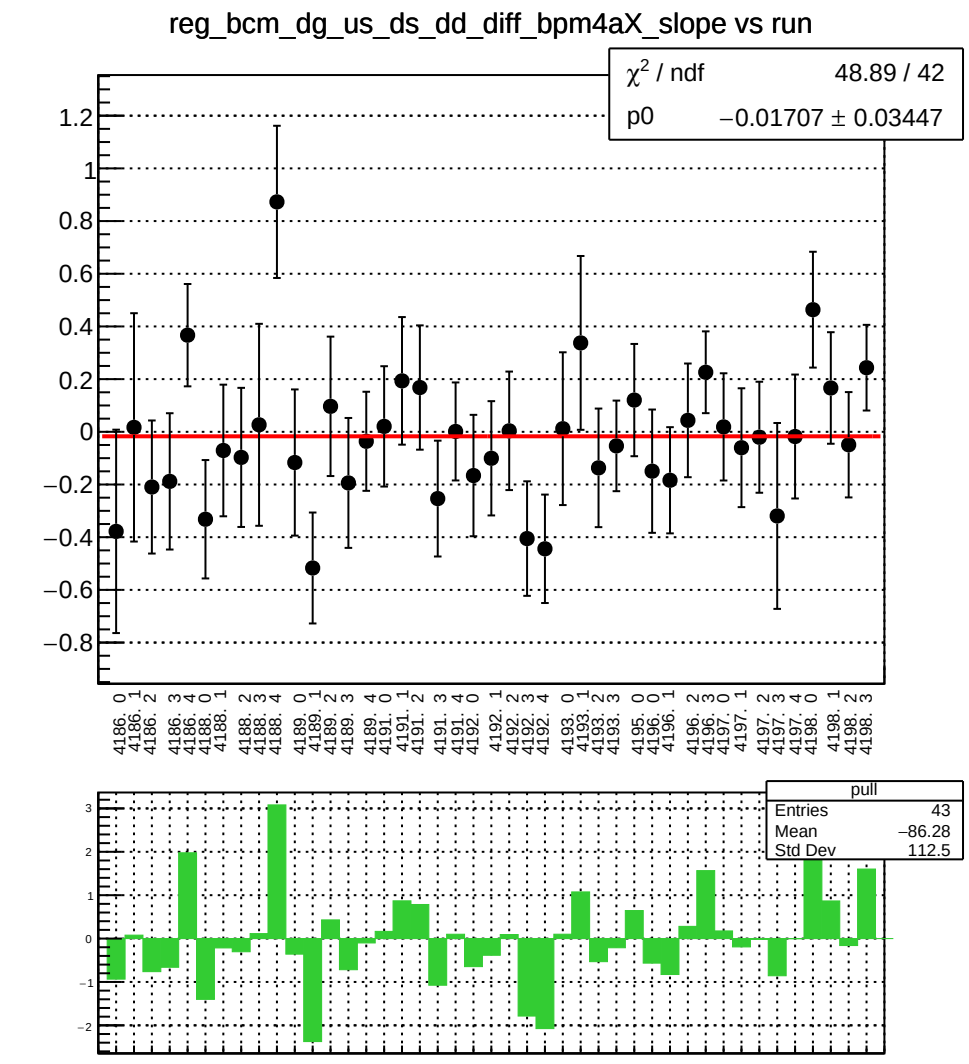

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.85 / 42
p0 0.1363 ± 0.004663
0.25
0.2
0.15
0.1
0.05
0
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean 221.5
Std Dev 201.8
2
1
0
−1
−2

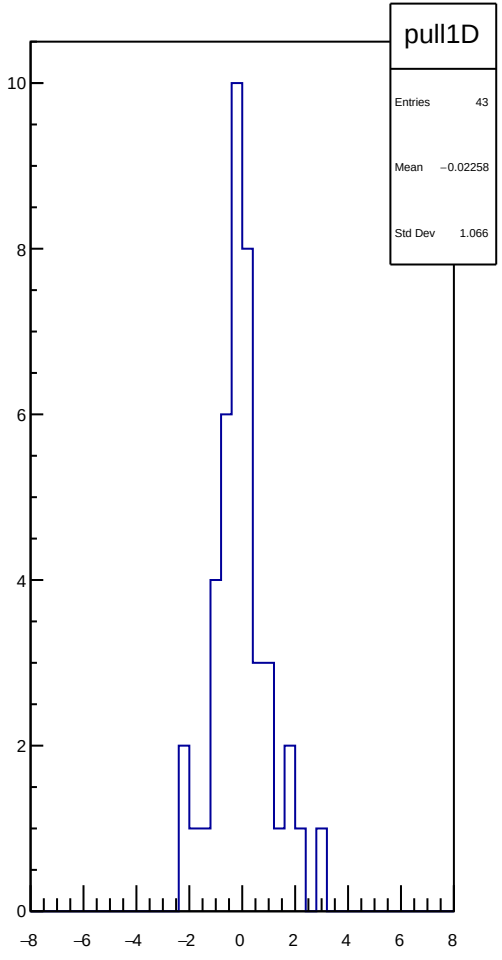

pull1D
Entries 43
Mean −0.01231
Std Dev 1.237
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

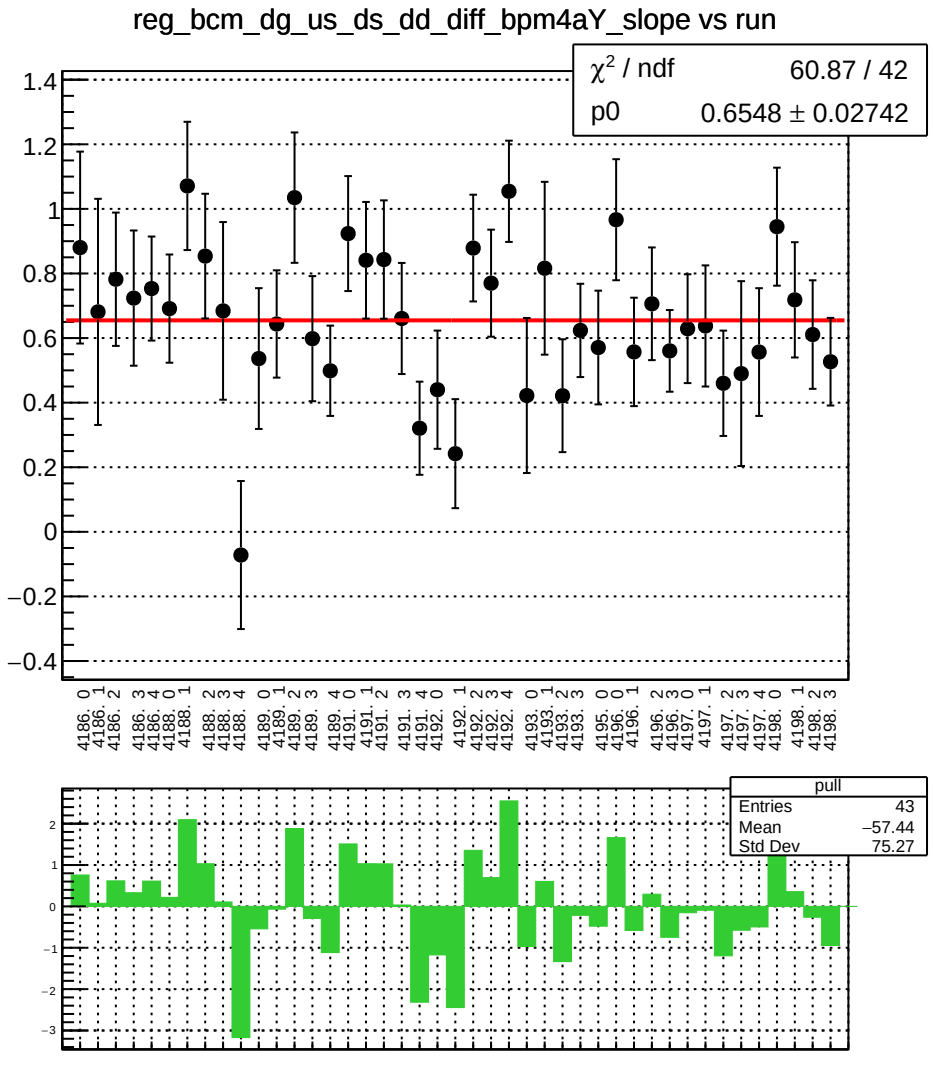

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.12 / 42
p0 −0.2858 ± 0.03666
pull
Entries 43
Mean 165.3
Std Dev 137.8

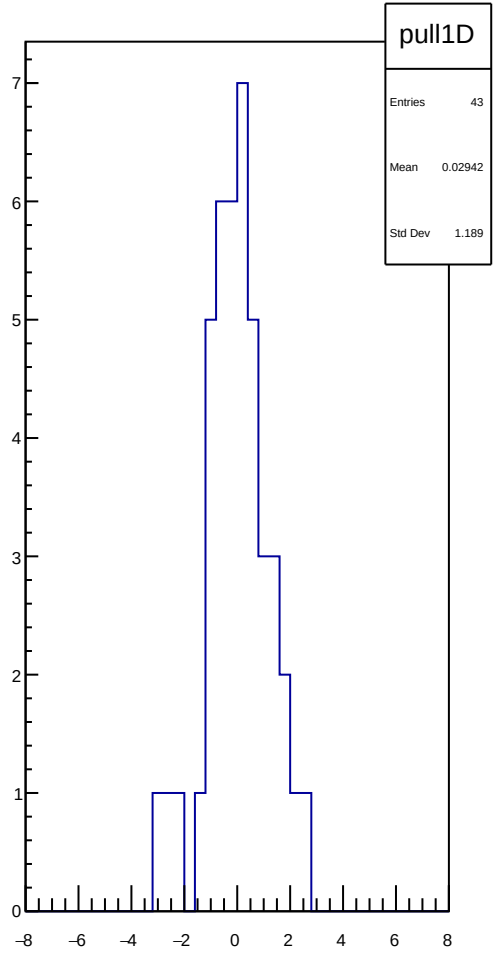

pull1D
Entries 43
Mean 0.01919
Std Dev 1.001

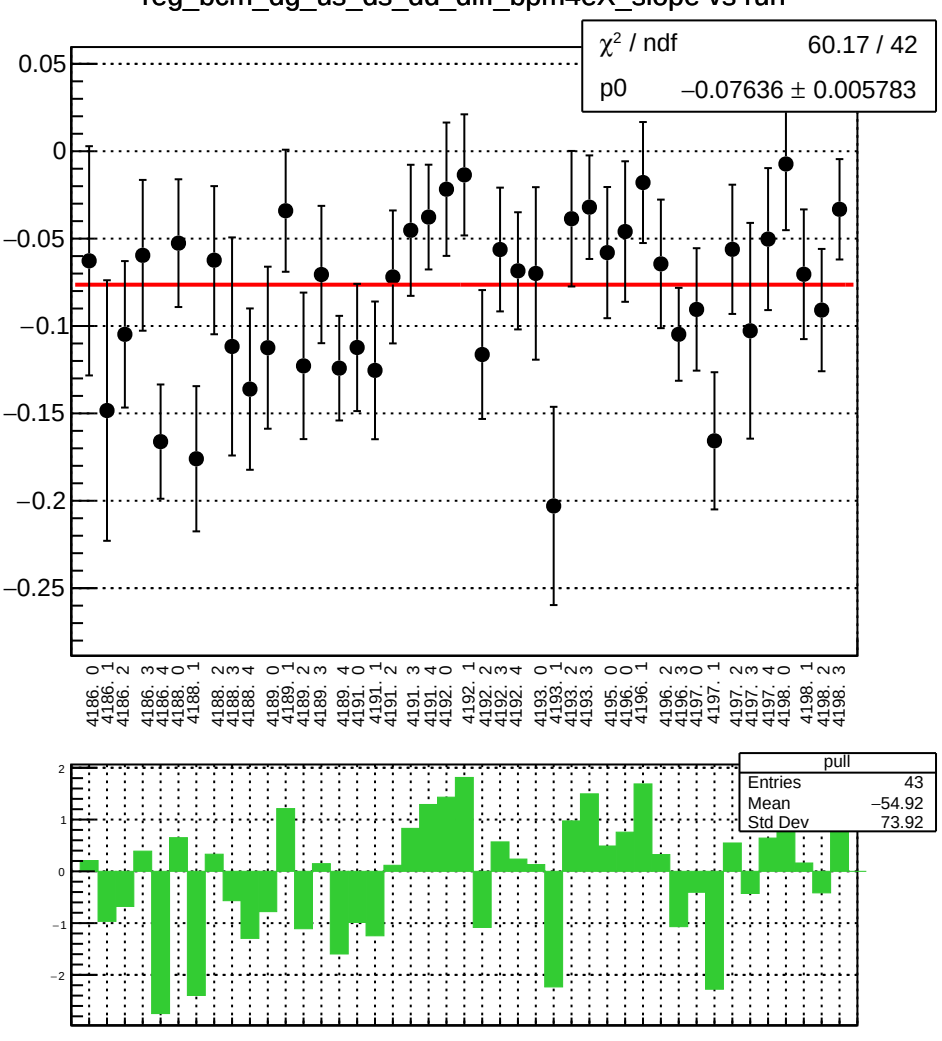

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 61.35 / 42
p0 −0.01801 ± 0.00706
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −17.79
Std Dev 15.22
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02233
Std Dev 1.194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

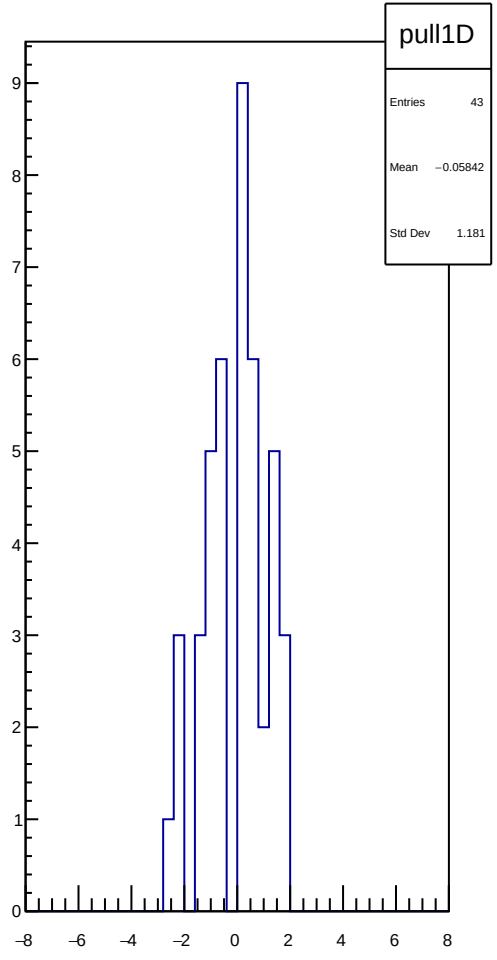

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.89 / 42
p0 −0.01707 ± 0.03447
pull
Entries 43
Mean −86.28
Std Dev 112.5

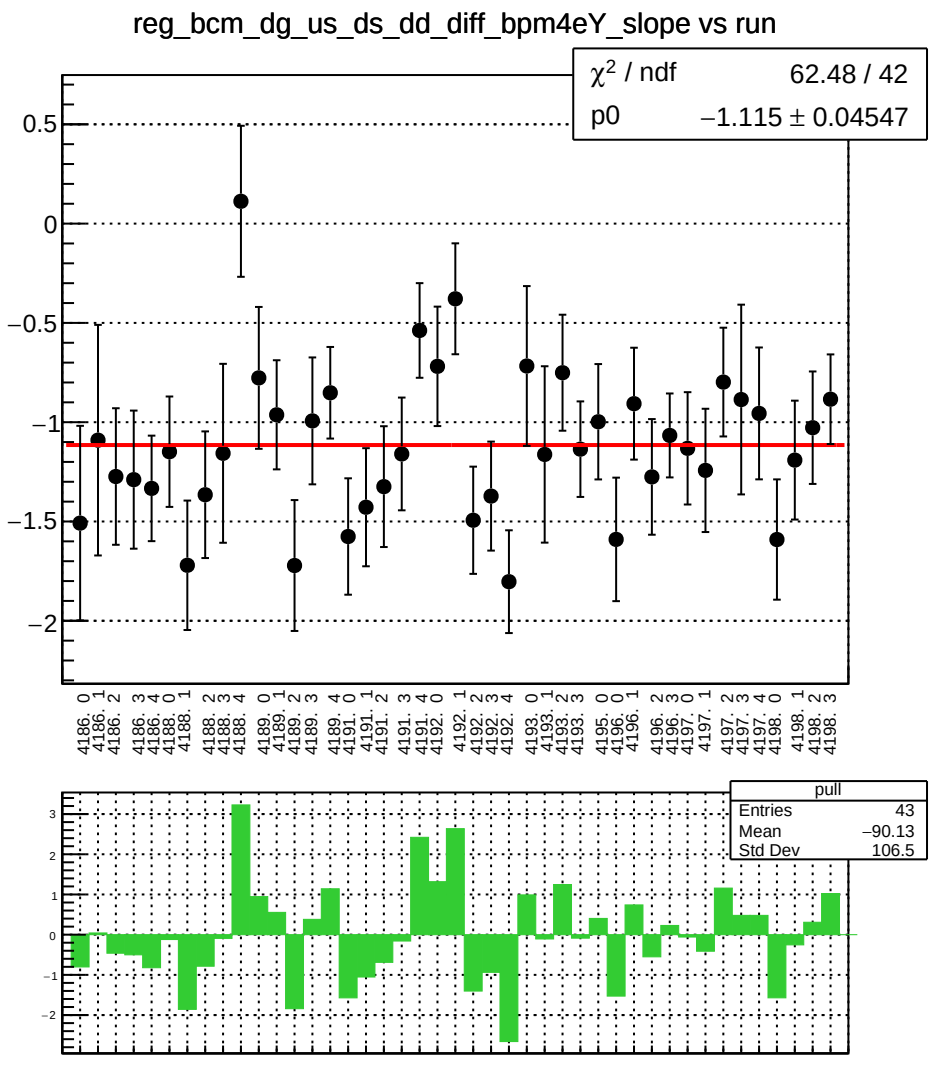

pull1D
Entries 43
Mean −0.02258
Std Dev 1.066

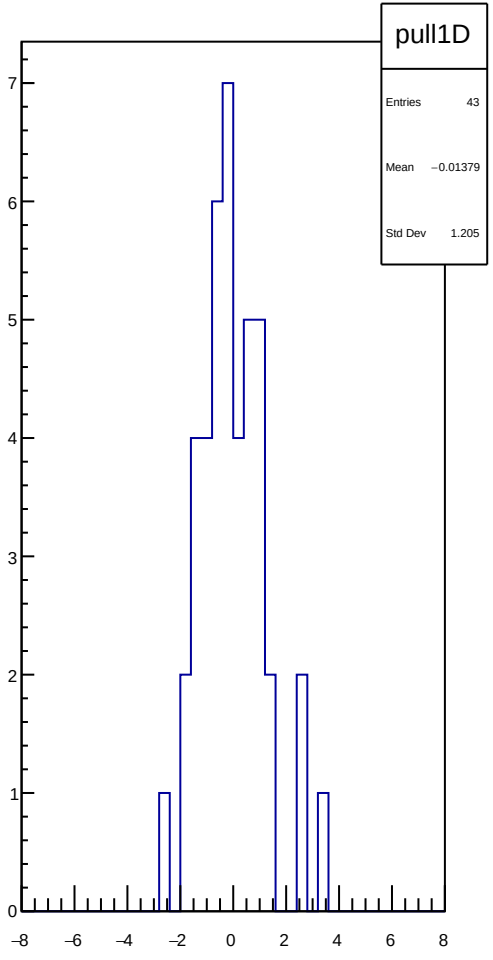

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.87 / 42
p0 0.6548 ± 0.02742
pull
Entries 43
Mean −57.44
Std Dev 75.27

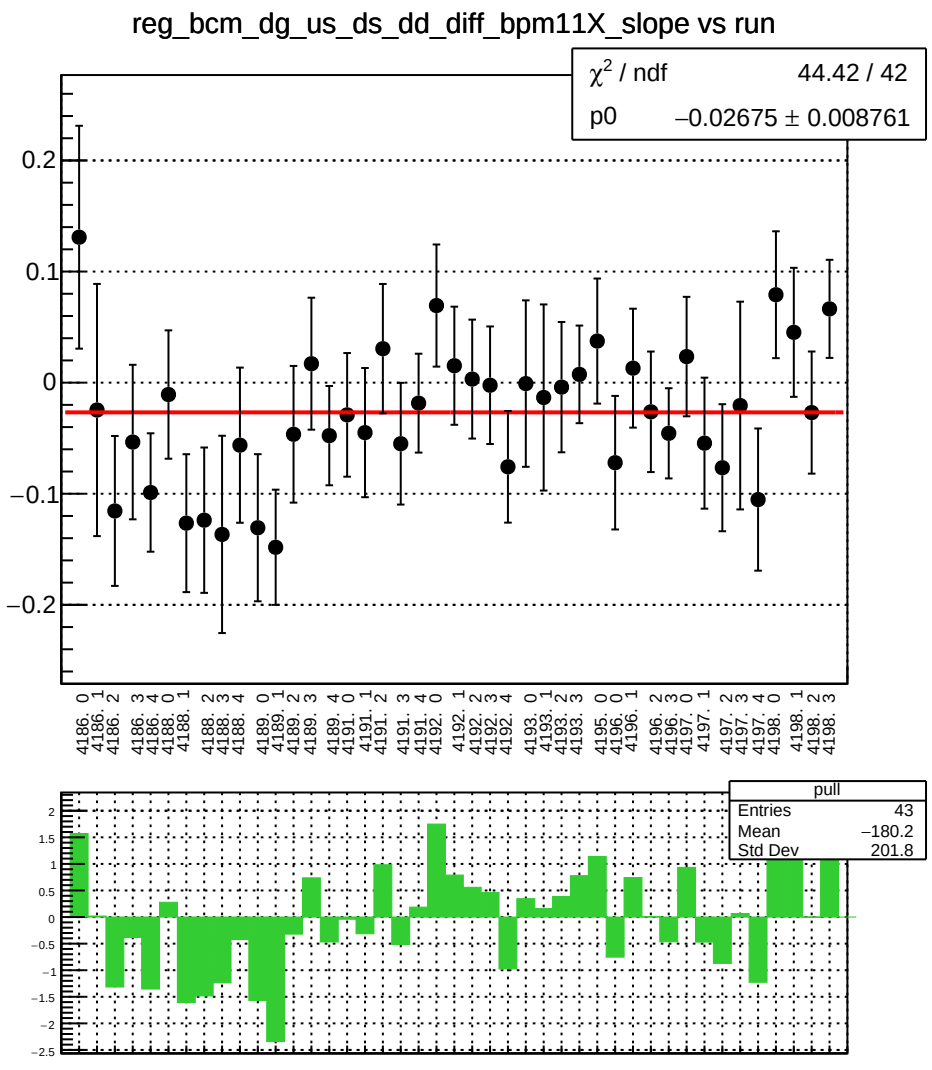

pull1D
Entries 43
Mean 0.02942
Std Dev 1.189

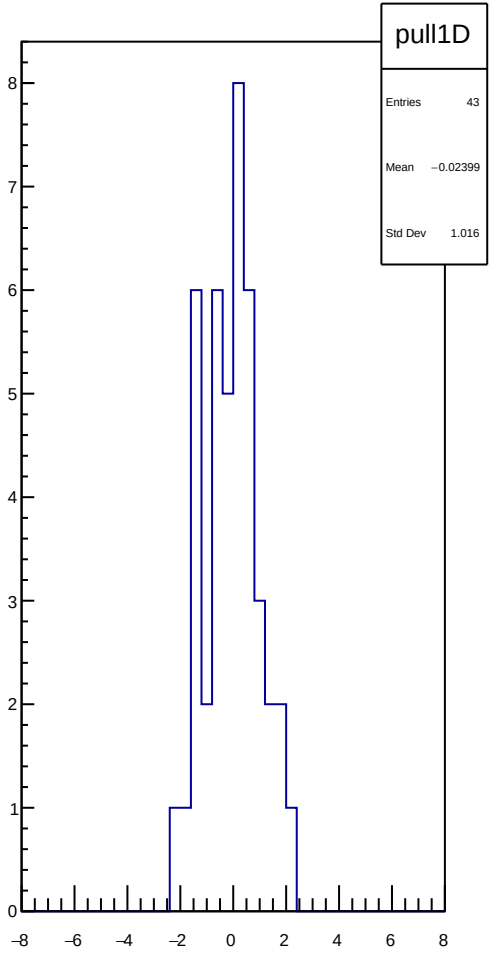

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.17 / 42
p0 −0.07636 ± 0.005783
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −54.92
Std Dev 73.92
2
1
0
−1
−2

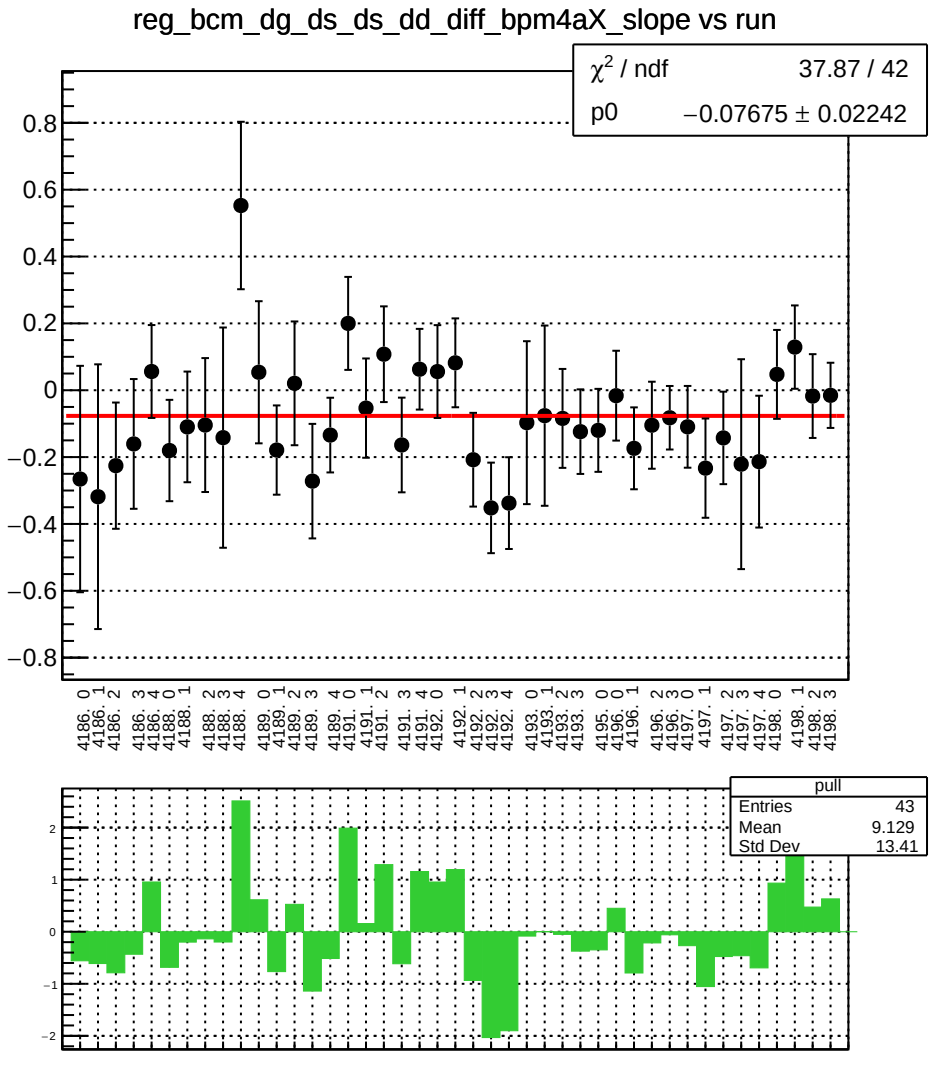

pull1D
Entries 43
Mean −0.05842
Std Dev 1.181
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

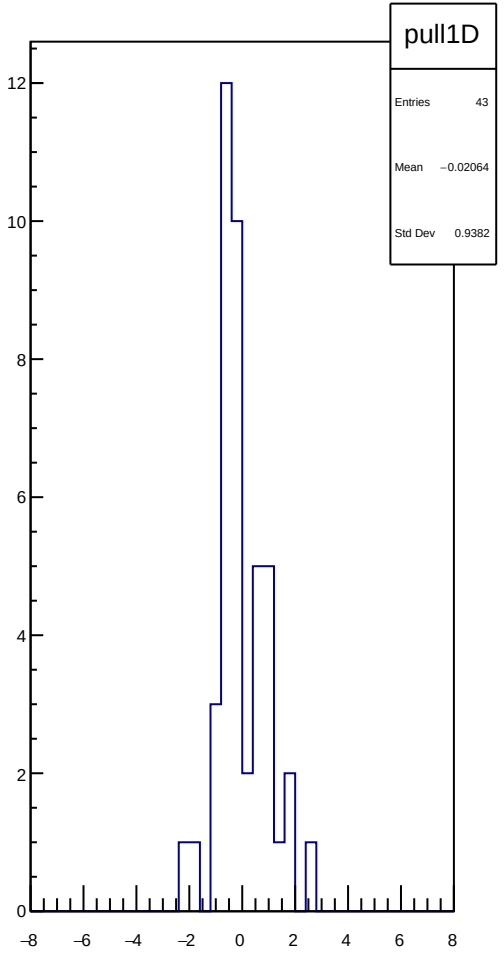

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.48 / 42
p0 −1.115 ± 0.04547
pull
Entries 43
Mean −90.13
Std Dev 106.5

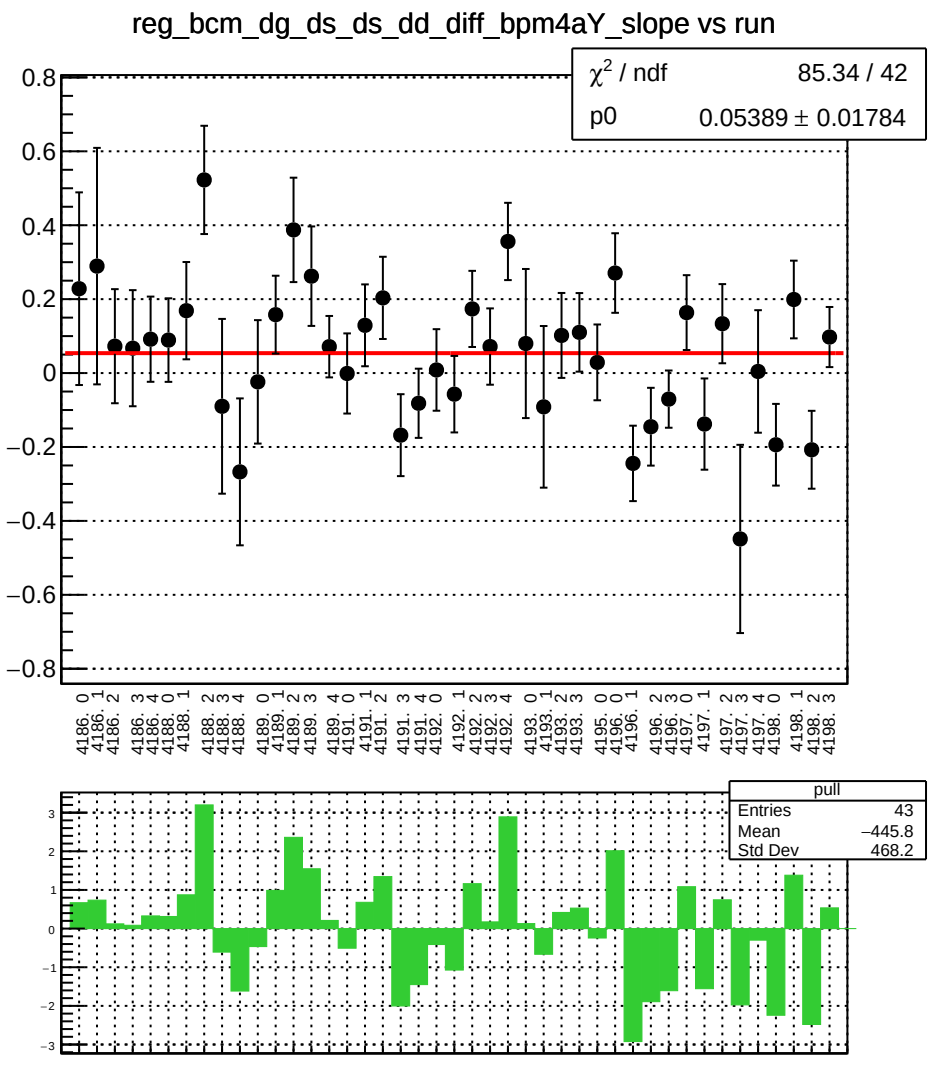

pull1D
Entries 43
Mean −0.01379
Std Dev 1.205

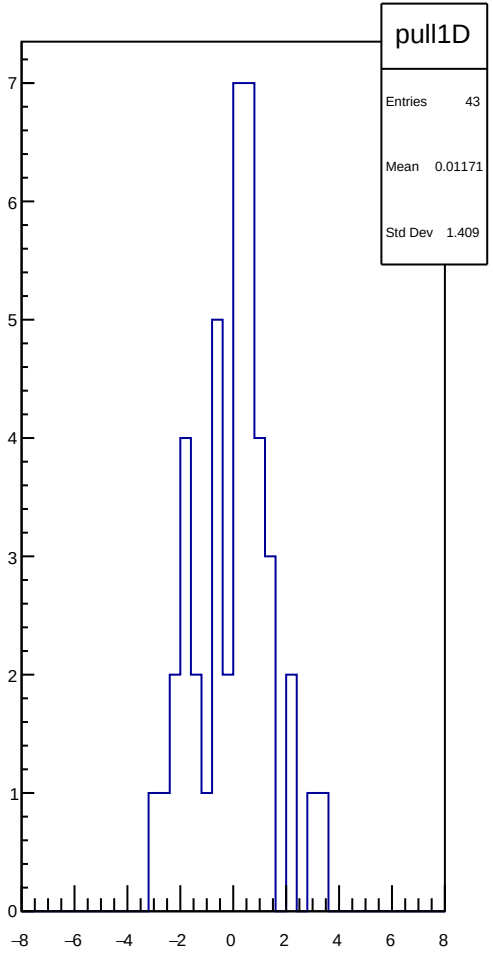

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 44.42 / 42
p0 −0.02675 ± 0.008761
0.2
0.1
0
−0.1
−0.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −180.2
Std Dev 201.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

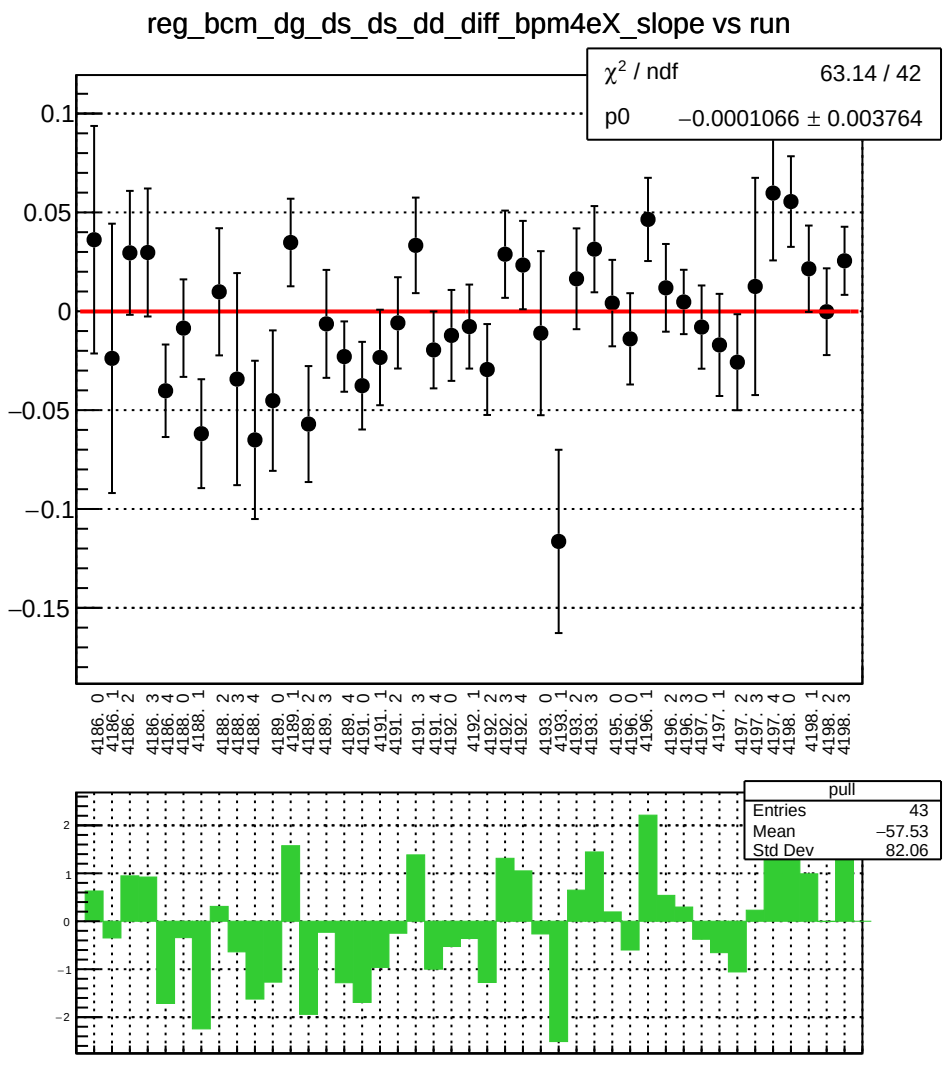

pull1D
Entries 43
Mean −0.02399
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

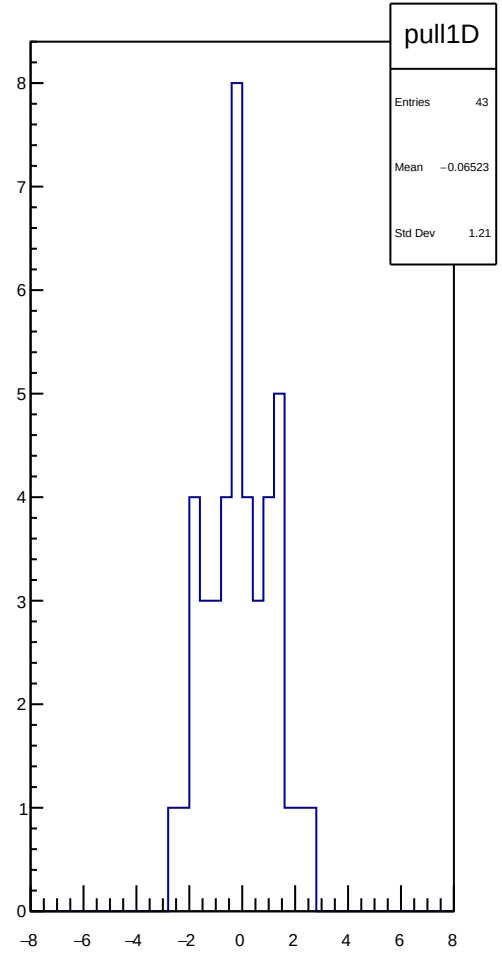

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.87 / 42
p0 −0.07675 ± 0.02242
pull
Entries 43
Mean 9.129
Std Dev 13.41

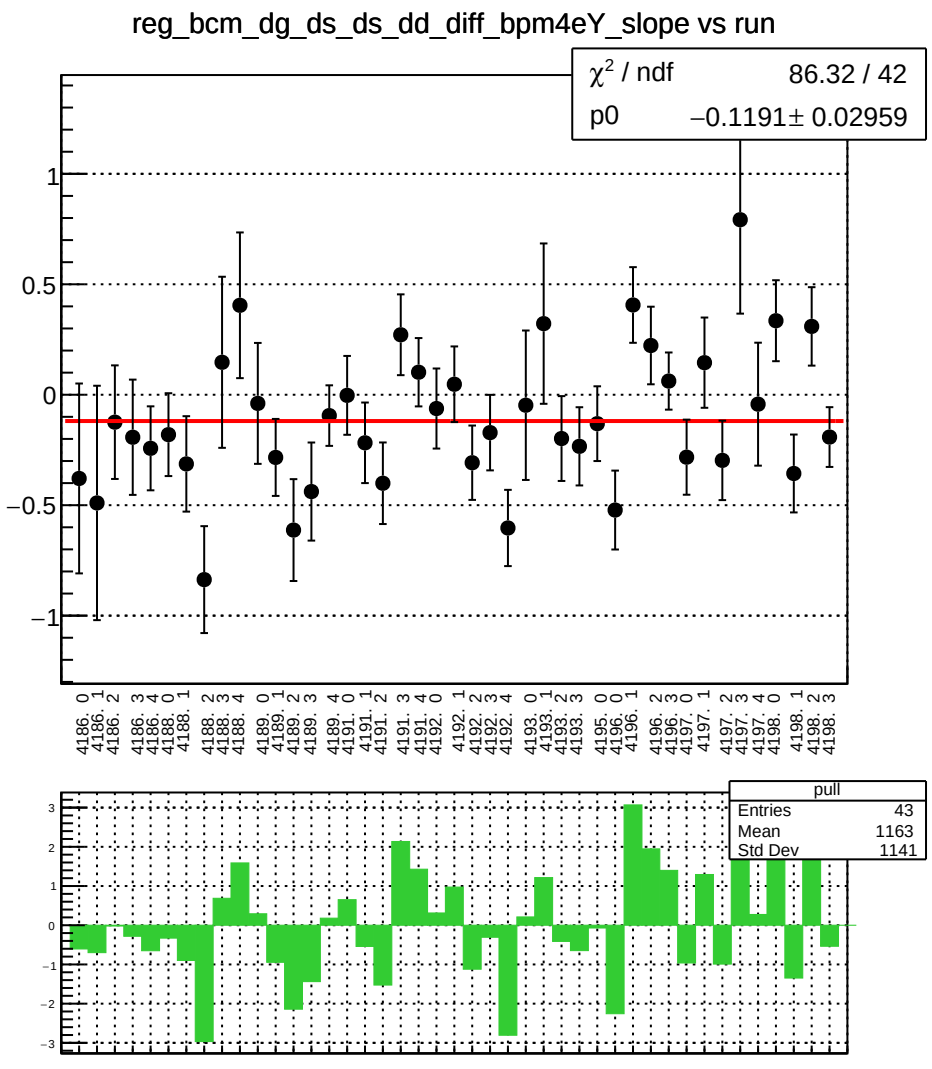

pull1D
Entries 43
Mean −0.02064
Std Dev 0.9382

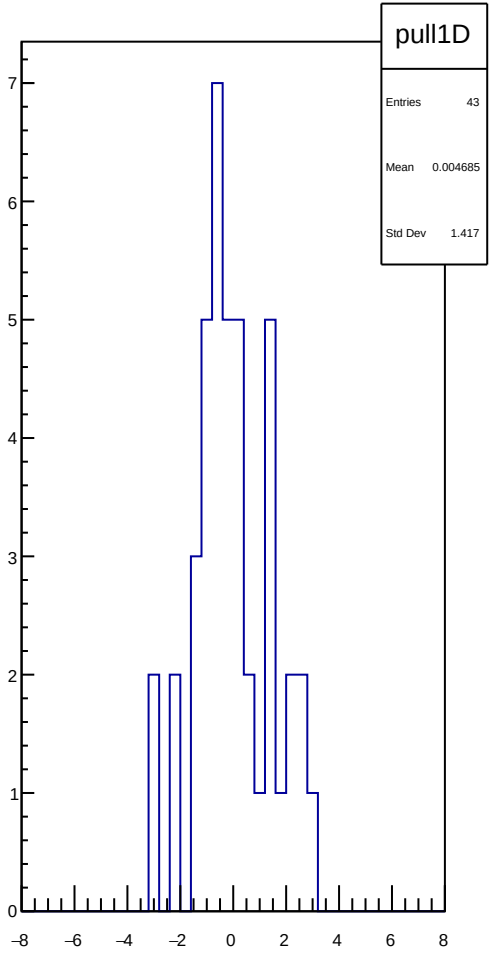

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.34 / 42
p0 0.05389 ± 0.01784
pull
Entries 43
Mean −445.8
Std Dev 468.2

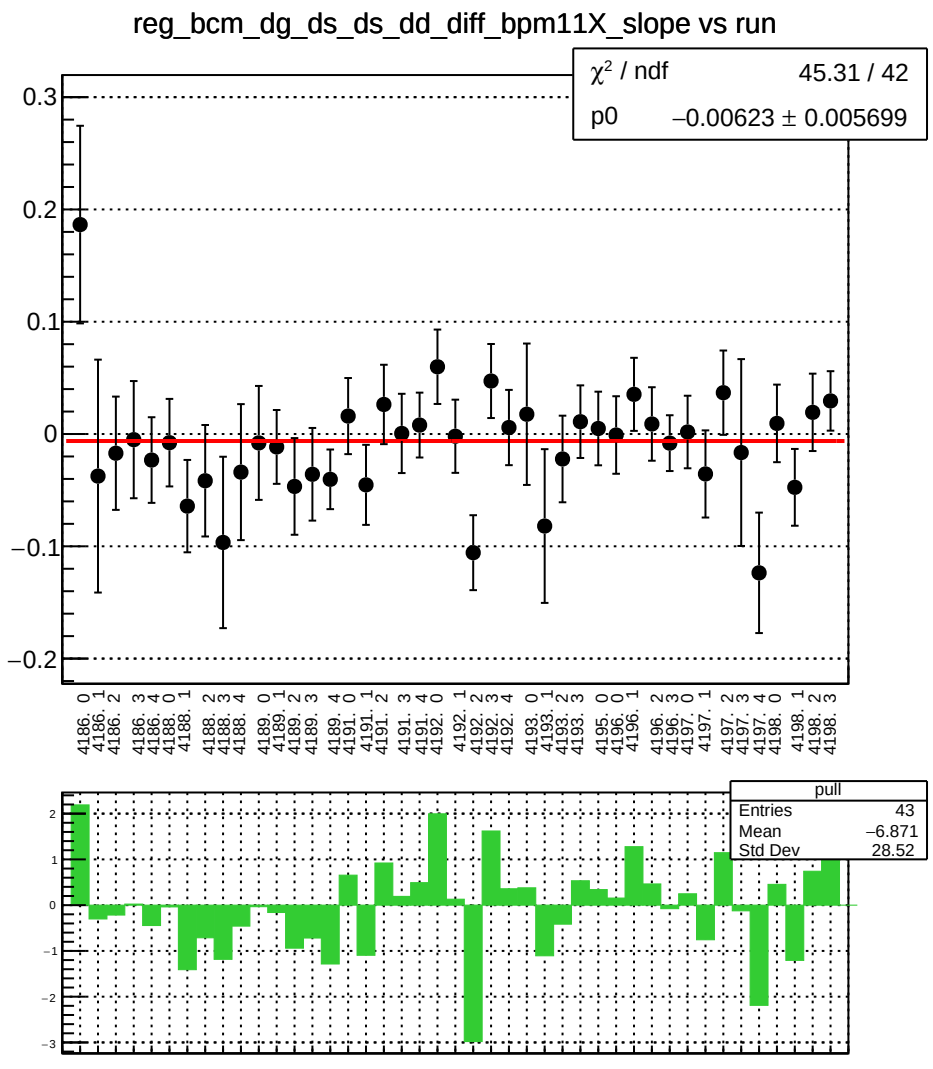

pull1D
Entries 43
Mean 0.01171
Std Dev 1.409

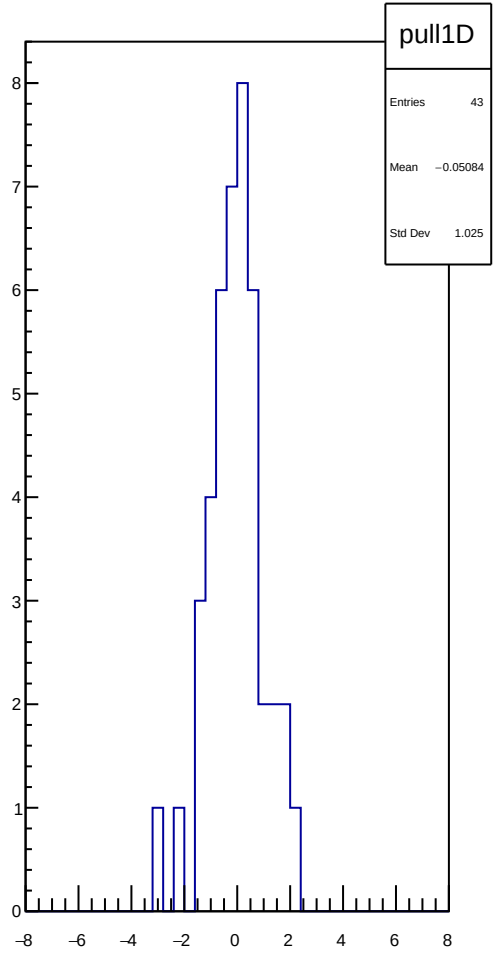

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.14 / 42
p0 −0.0001066 ± 0.003764
0.1
0.05
0
−0.05
−0.1
−0.15
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −57.53
Std Dev 82.06
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.06523
Std Dev 1.21
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.32 / 42
p0 −0.1191± 0.02959
pull
Entries 43
Mean 1163
Std Dev 1141


pull1D
Entries 43
Mean 0.004685
Std Dev 1.417


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 45.31 / 42
p0 −0.00623 ± 0.005699
0.3
0.2
0.1
0
−0.1
−0.2
4186. 0
4186. 1
4186. 2
4186. 3
4186. 4
4188. 0
4188. 1
4188. 2
4188. 3
4188. 4
4189. 0
4189. 1
4189. 2
4189. 3
4189. 4
4191. 0
4191. 1
4191. 2
4191. 3
4191. 4
4192. 0
4192. 1
4192. 2
4192. 3
4192. 4
4193. 0
4193. 1
4193. 2
4193. 3
4195. 0
4196. 0
4196. 1
4196. 2
4196. 3
4197. 0
4197. 1
4197. 2
4197. 3
4197. 4
4198. 0
4198. 1
4198. 2
4198. 3
pull
Entries 43
Mean −6.871
Std Dev 28.52
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.05084
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8