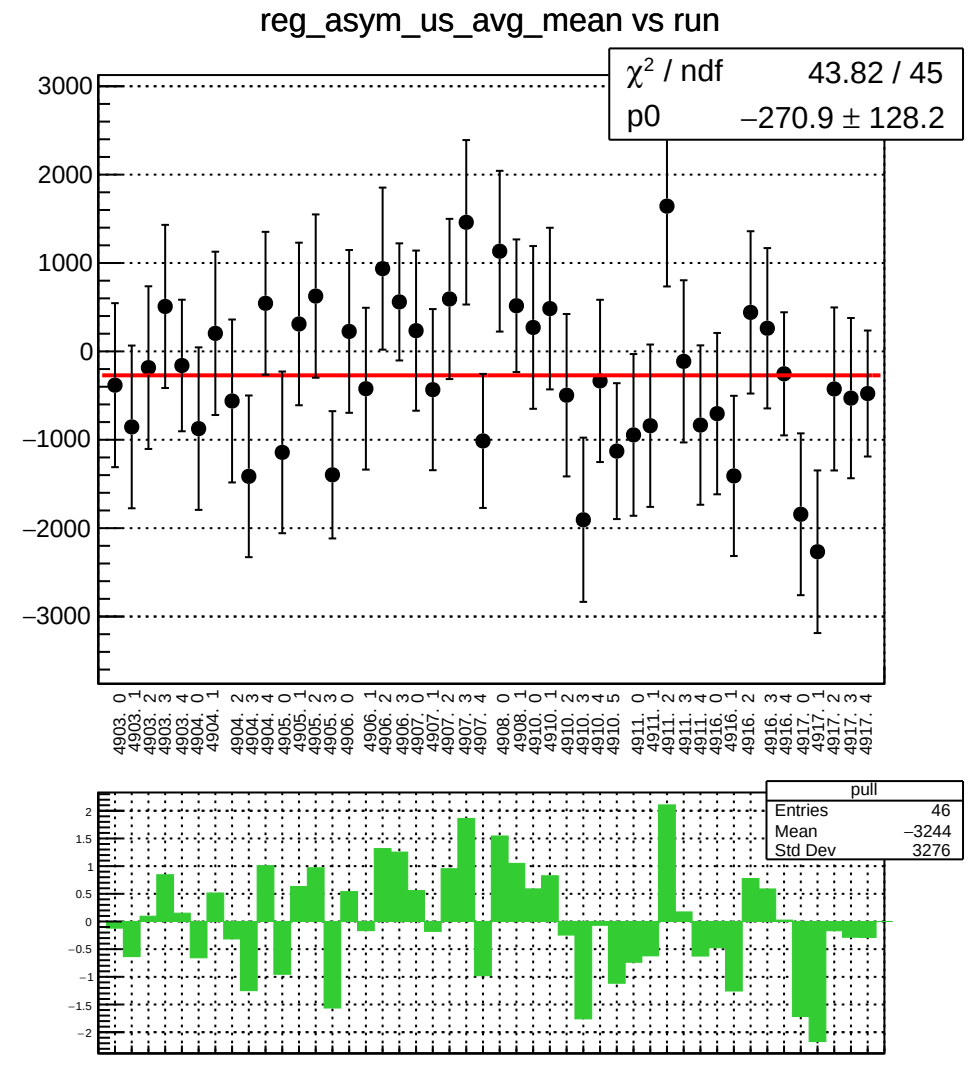
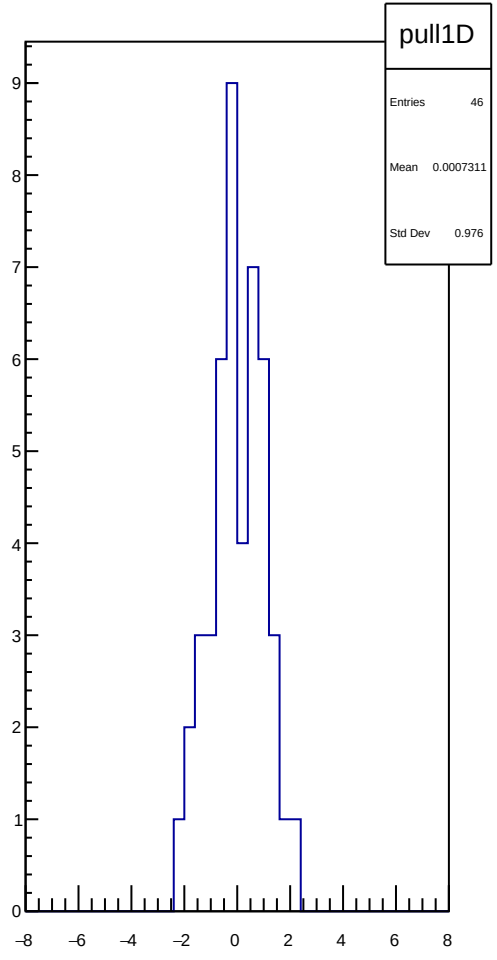
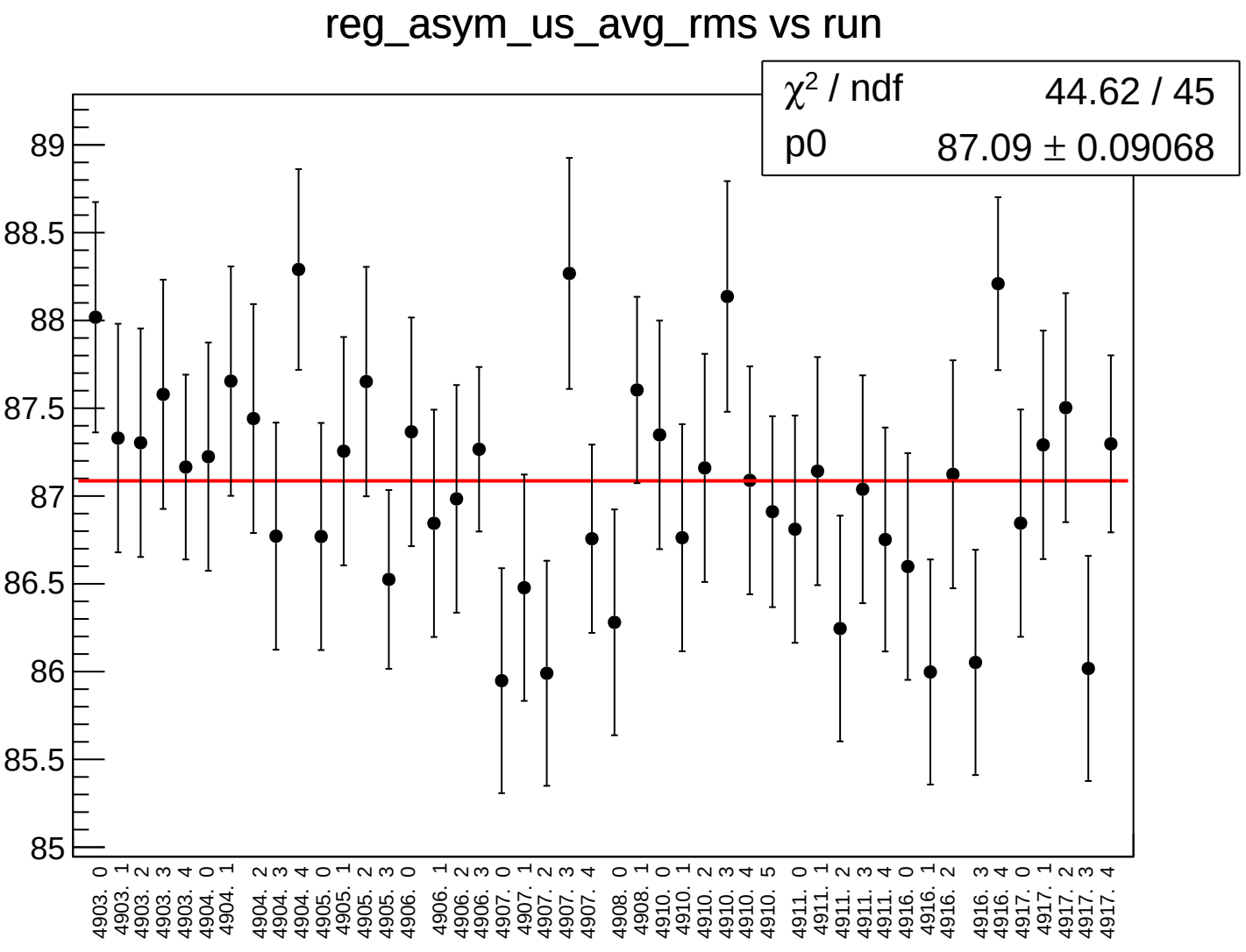
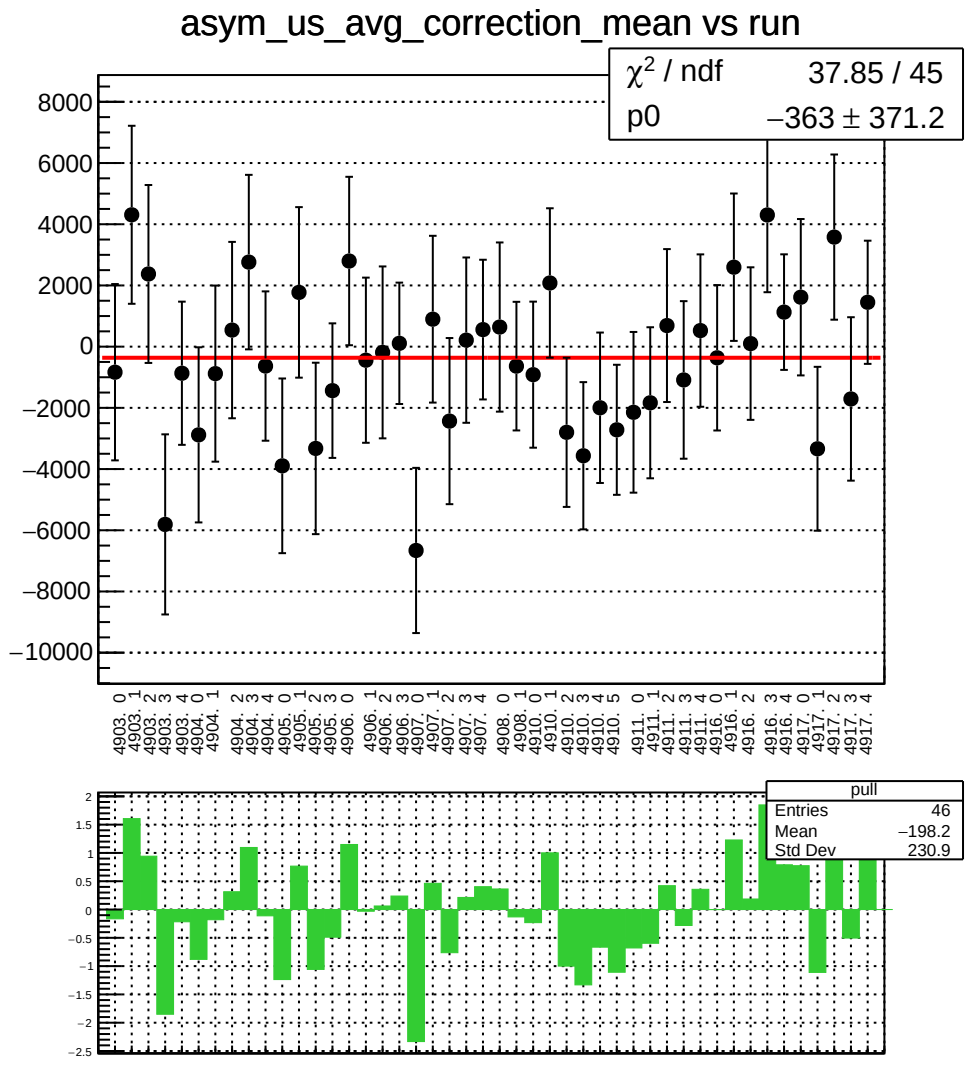
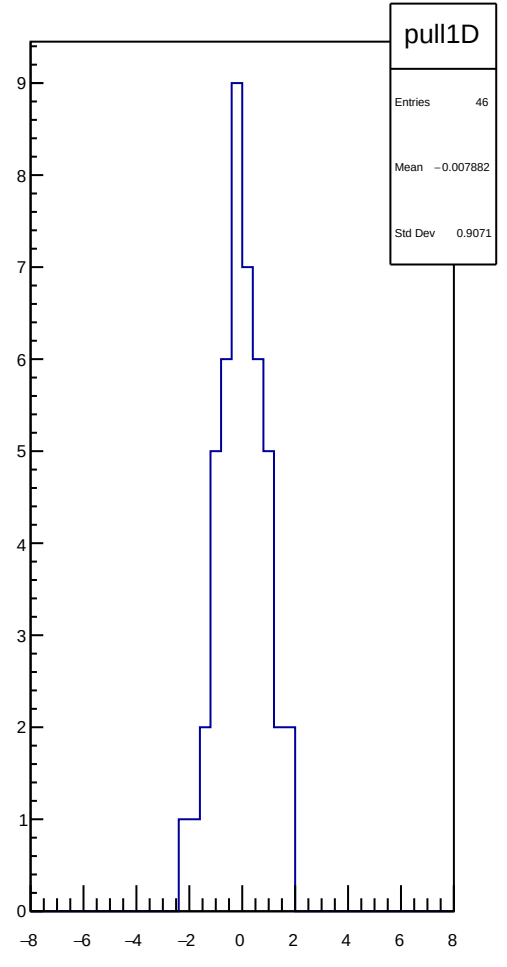
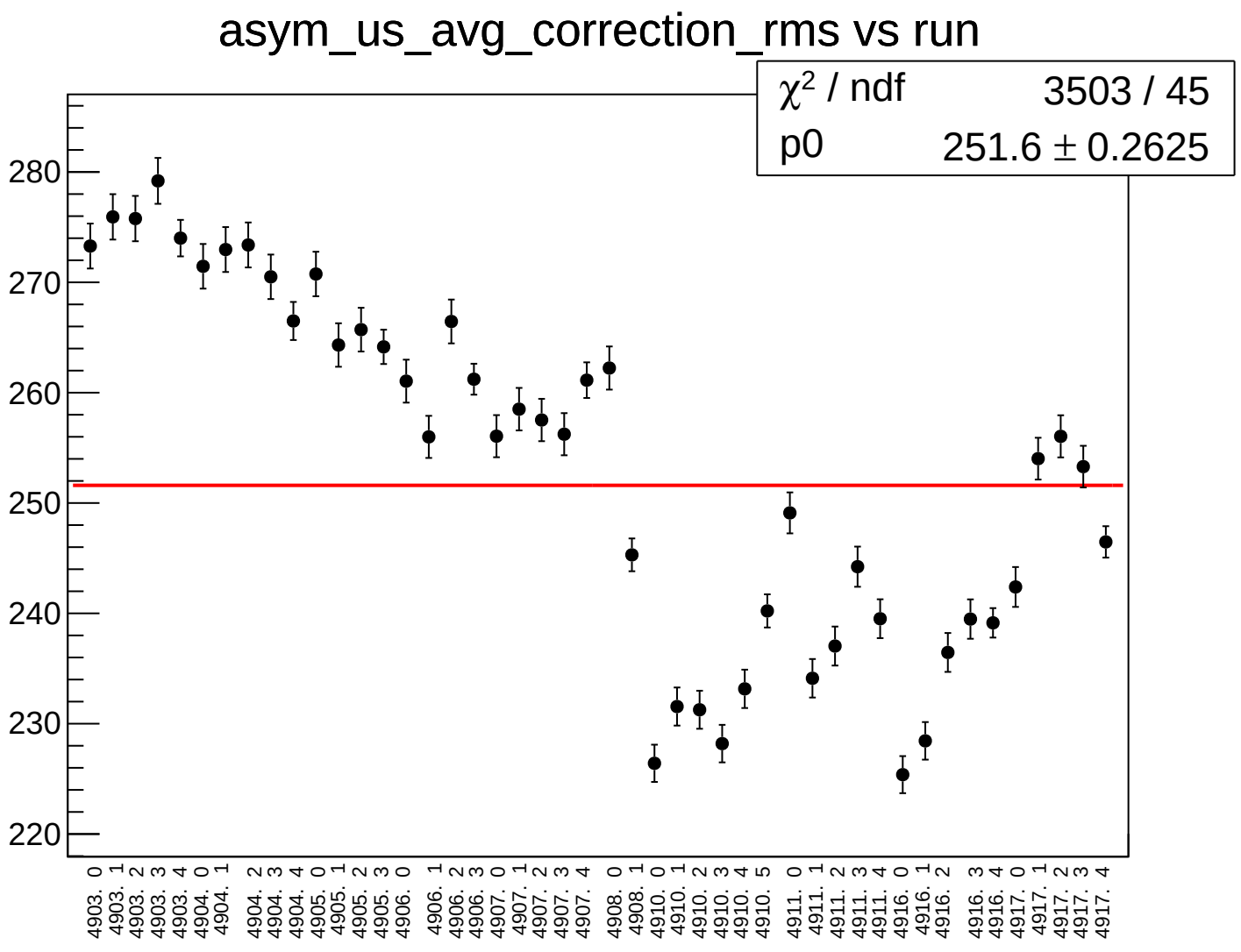

reg_asym_us_avg_mean vs run
χ² / ndf 43.82 / 45
p0 −270.9 ± 128.2
3000
2000
1000
0
−1000
−2000
−3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −3244
Std Dev 3276
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

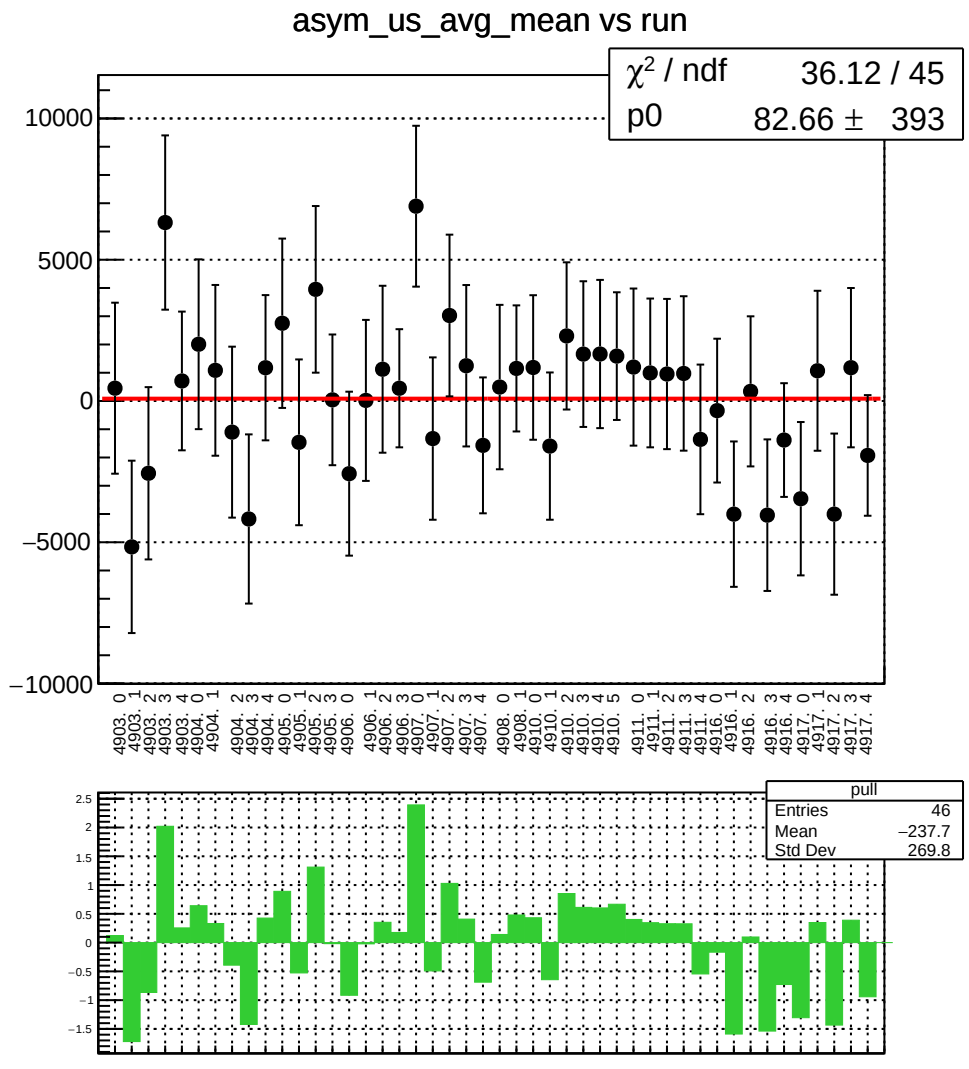

pull1D
Entries 46
Mean 0.0007311
Std Dev 0.976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

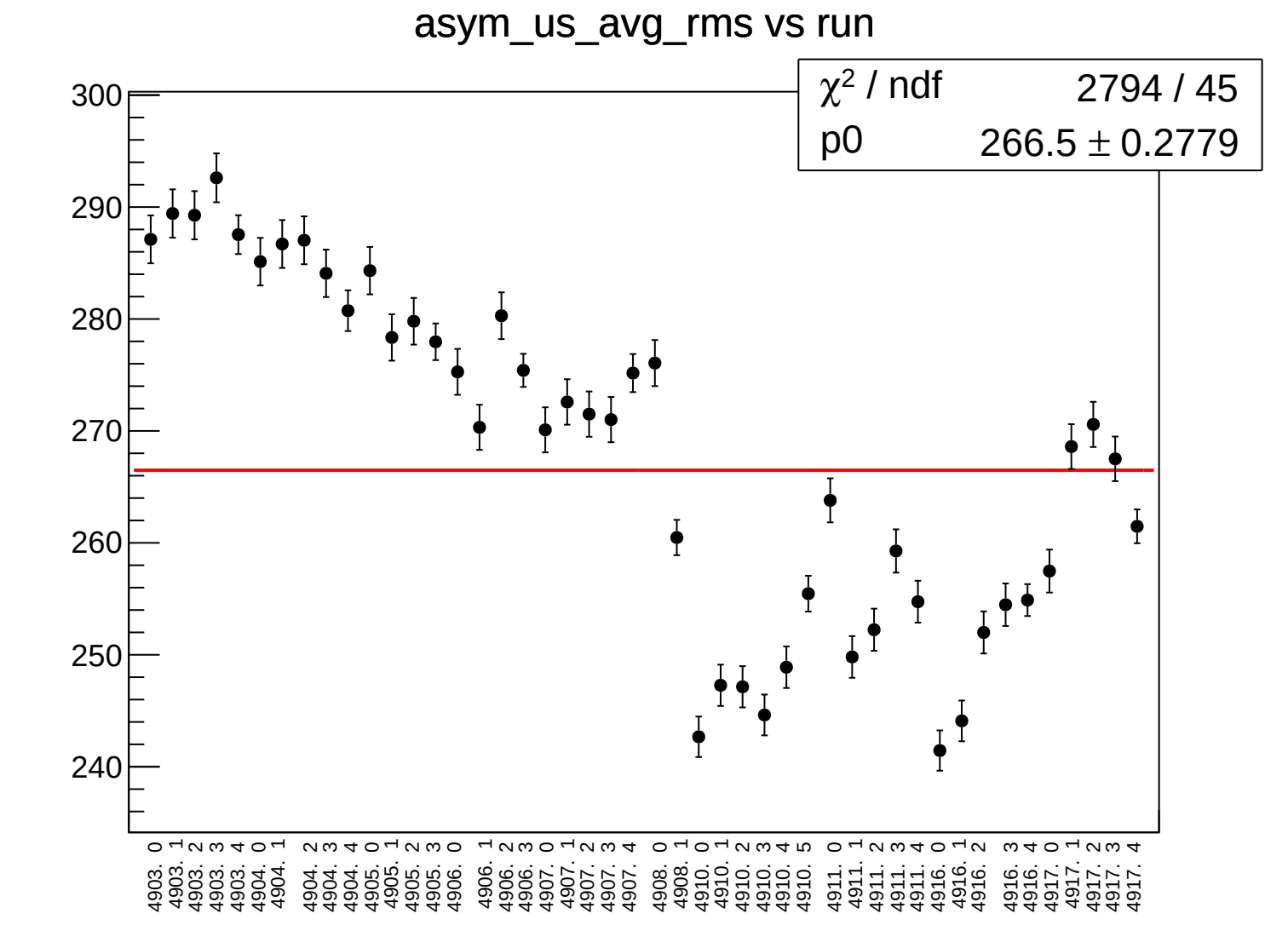

reg_asym_us_avg_rms vs run
χ² / ndf 44.62 / 45
p0 87.09 ± 0.09068
89
88.5
88
87.5
87
86.5
86
85.5
85
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

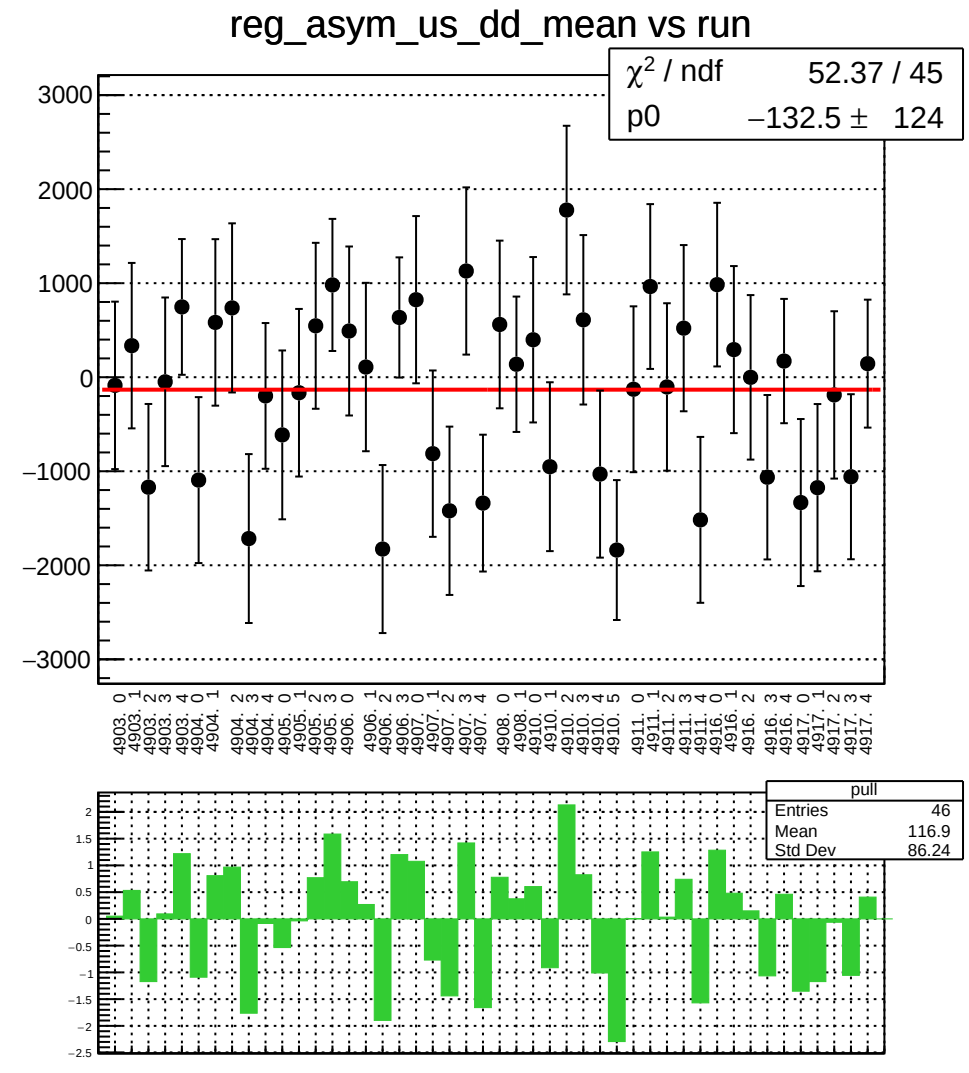

asym_us_avg_correction_mean vs run
χ² / ndf 37.85 / 45
p0 −363 ± 371.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −198.2
Std Dev 230.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

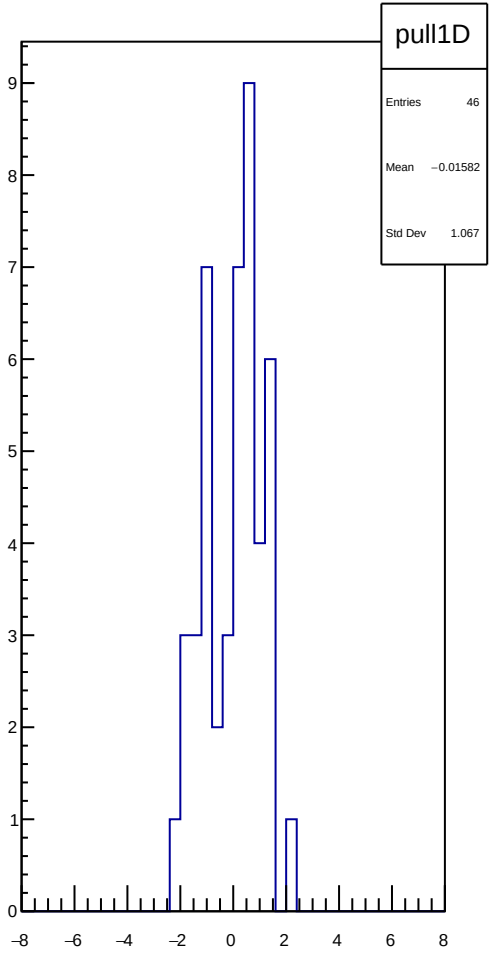

pull1D
Entries 46
Mean −0.007882
Std Dev 0.9071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

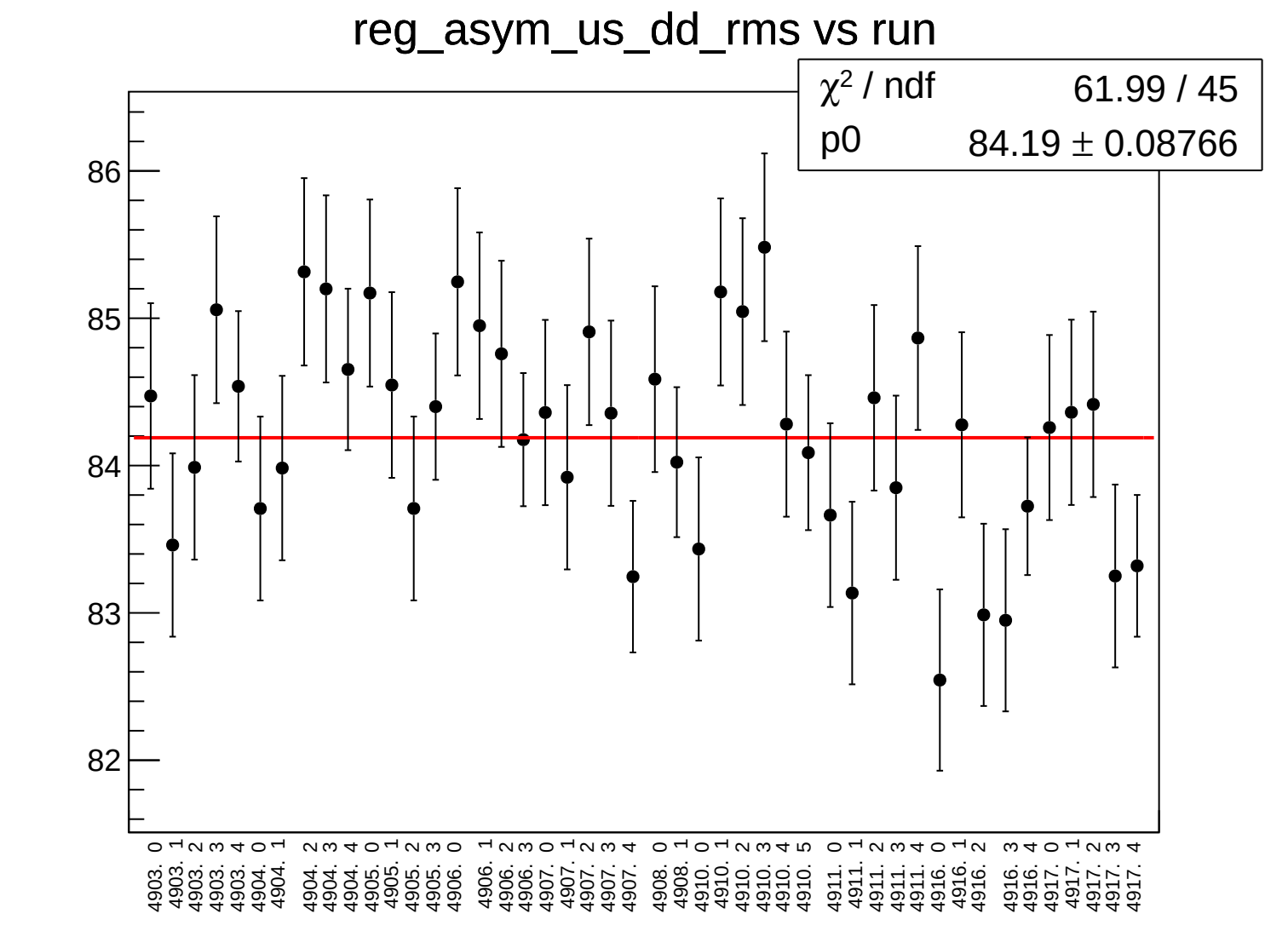

asym_us_avg_correction_rms vs run
χ² / ndf 3503 / 45
p0 251.6 ± 0.2625
280
270
260
250
240
230
220
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

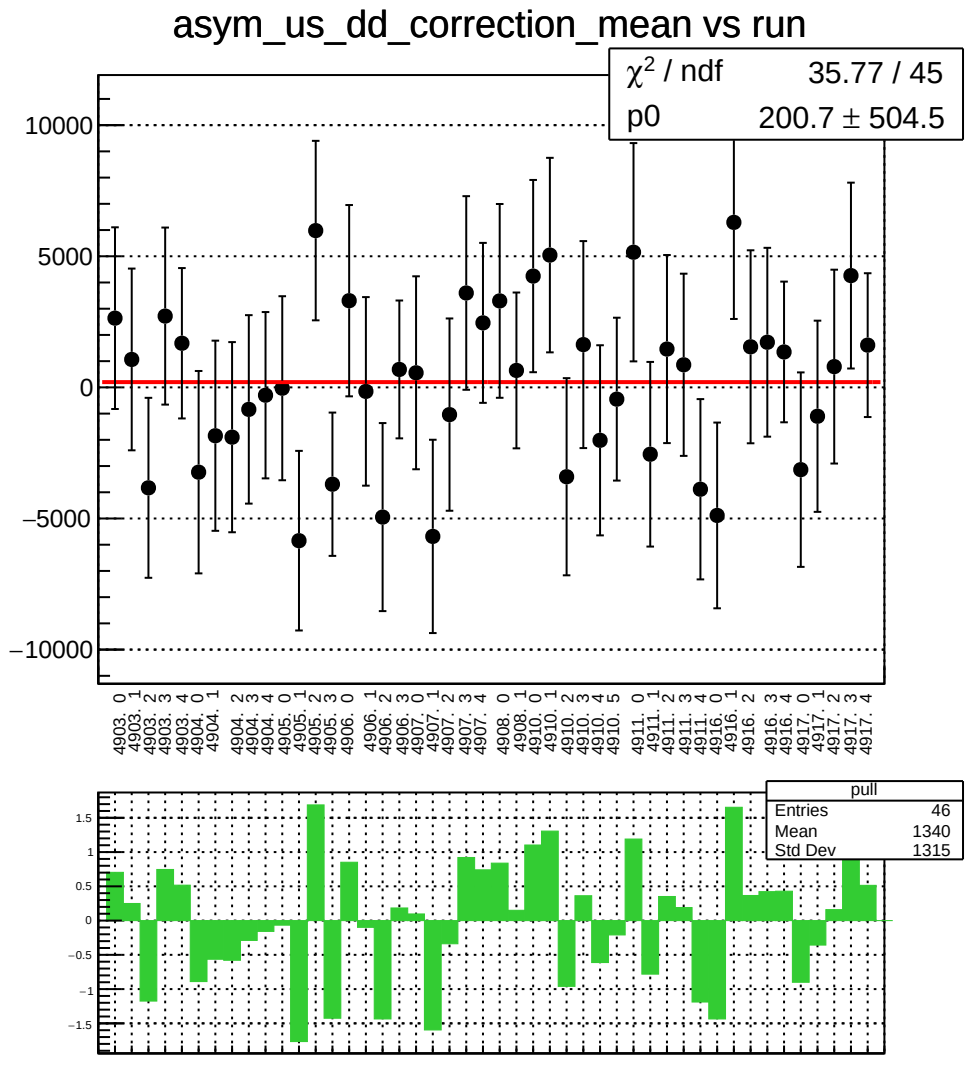

asym_us_avg_mean vs run
χ² / ndf 36.12 / 45
p0 82.66 ± 393
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −237.7
Std Dev 269.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.009372
Std Dev 0.8861
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

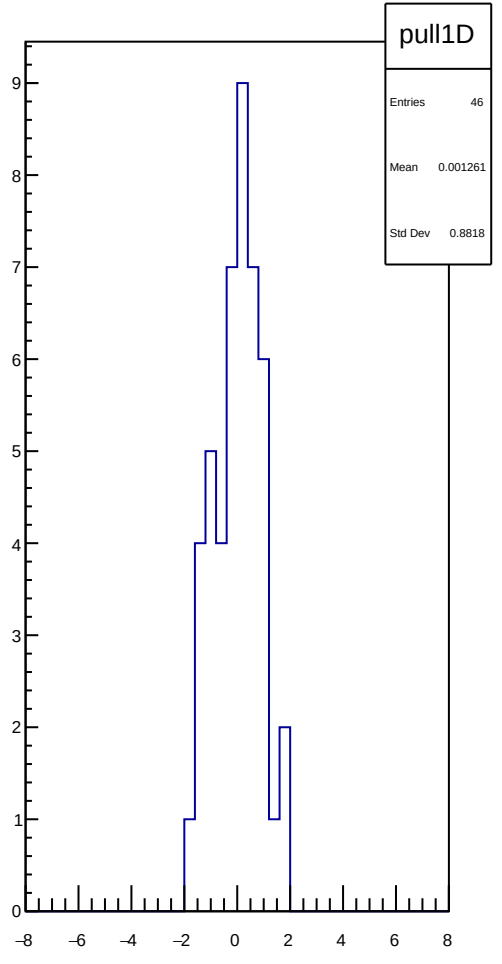

asym_us_avg_rms vs run
χ² / ndf 2794 / 45
p0 266.5 ± 0.2779
300
290
280
270
260
250
240
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

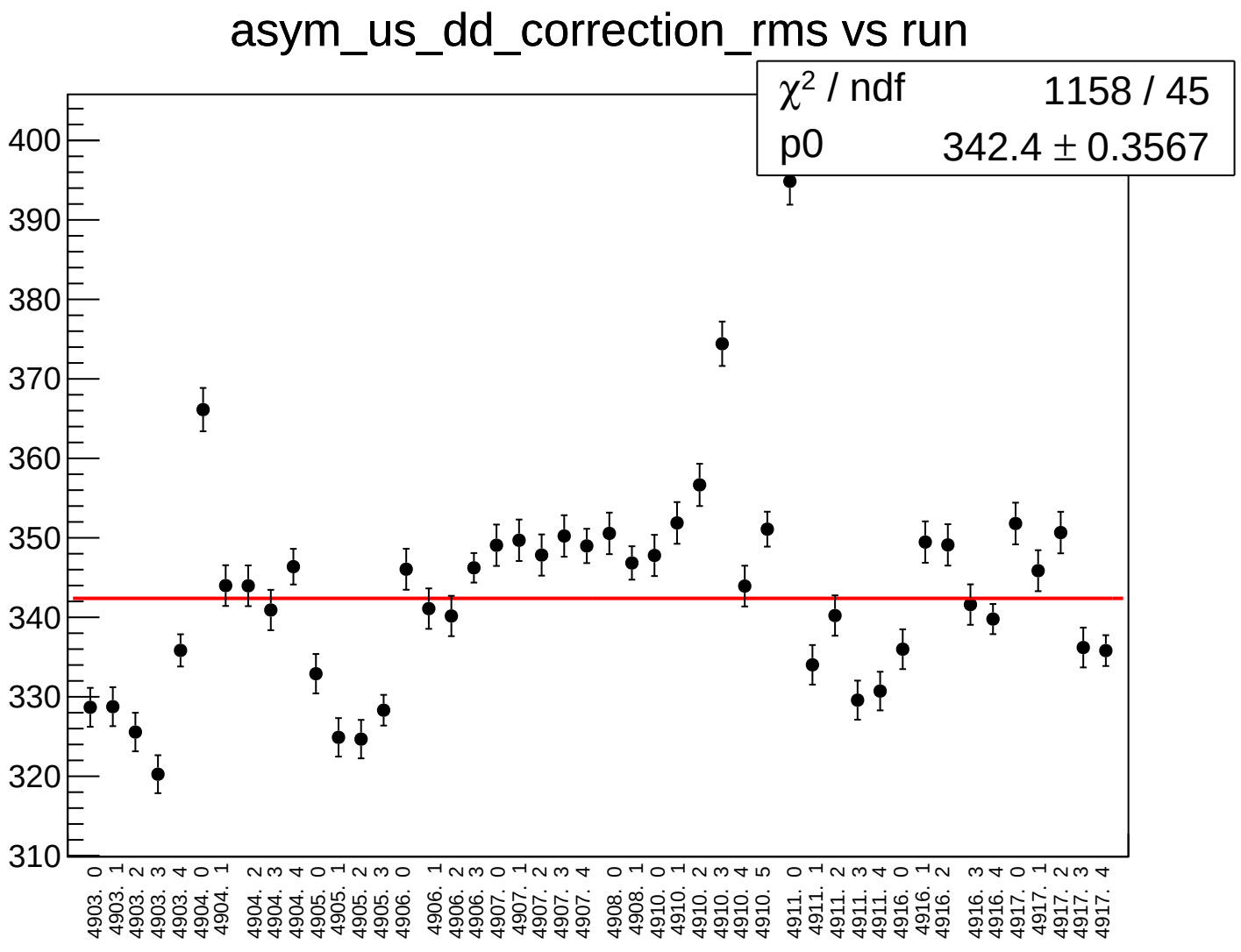

reg_asym_us_dd_mean vs run
χ² / ndf 52.37 / 45
p0 −132.5 ± 124
3000
2000
1000
0
−1000
−2000
−3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 116.9
Std Dev 86.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

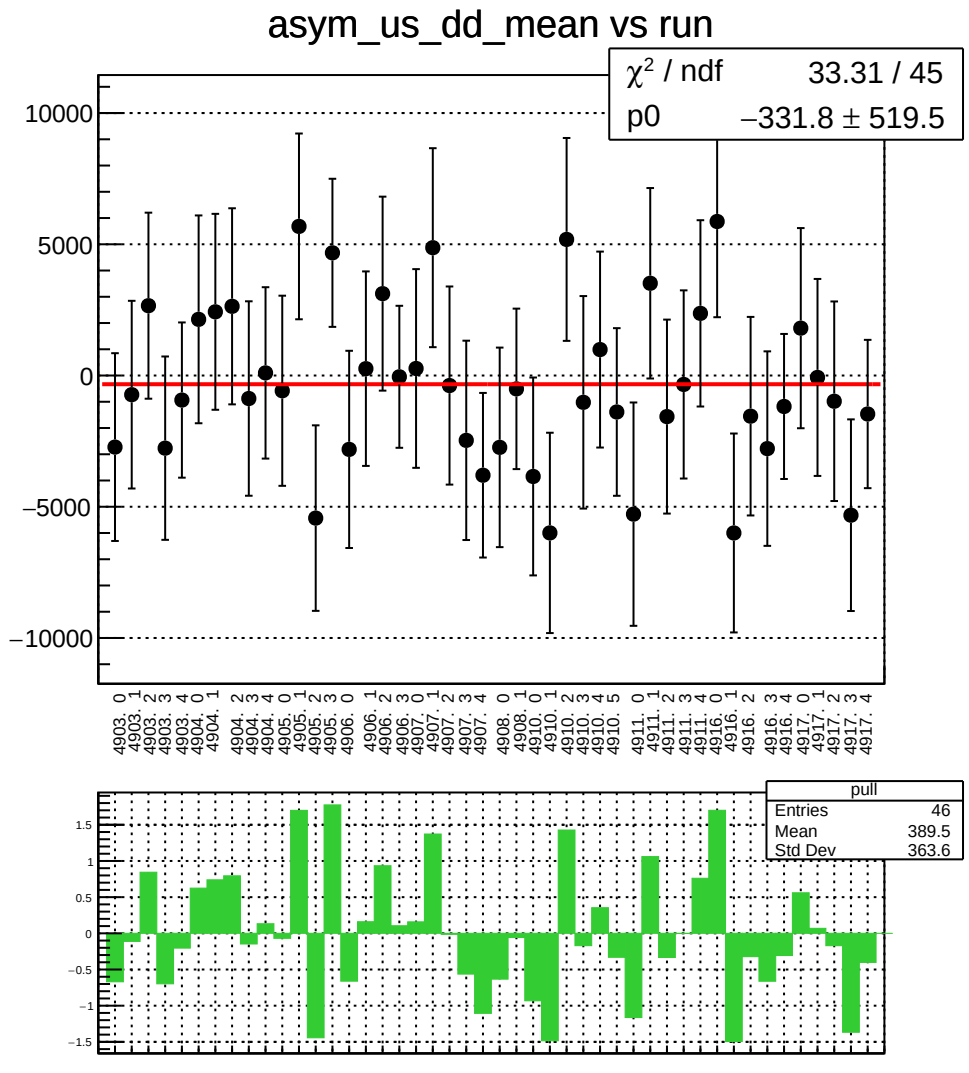

pull1D
Entries 46
Mean −0.01582
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

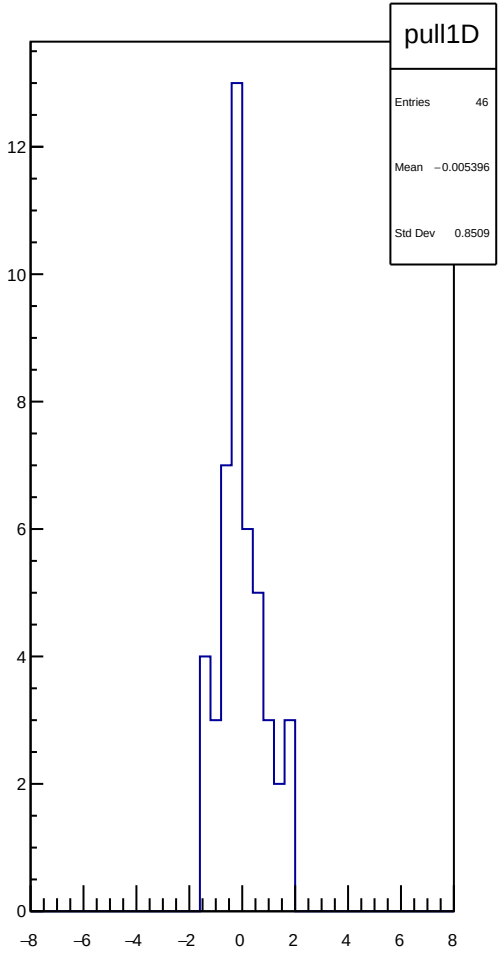

reg_asym_us_dd_rms vs run
χ² / ndf 61.99 / 45
p0 84.19 ± 0.08766
86
85
84
83
82
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

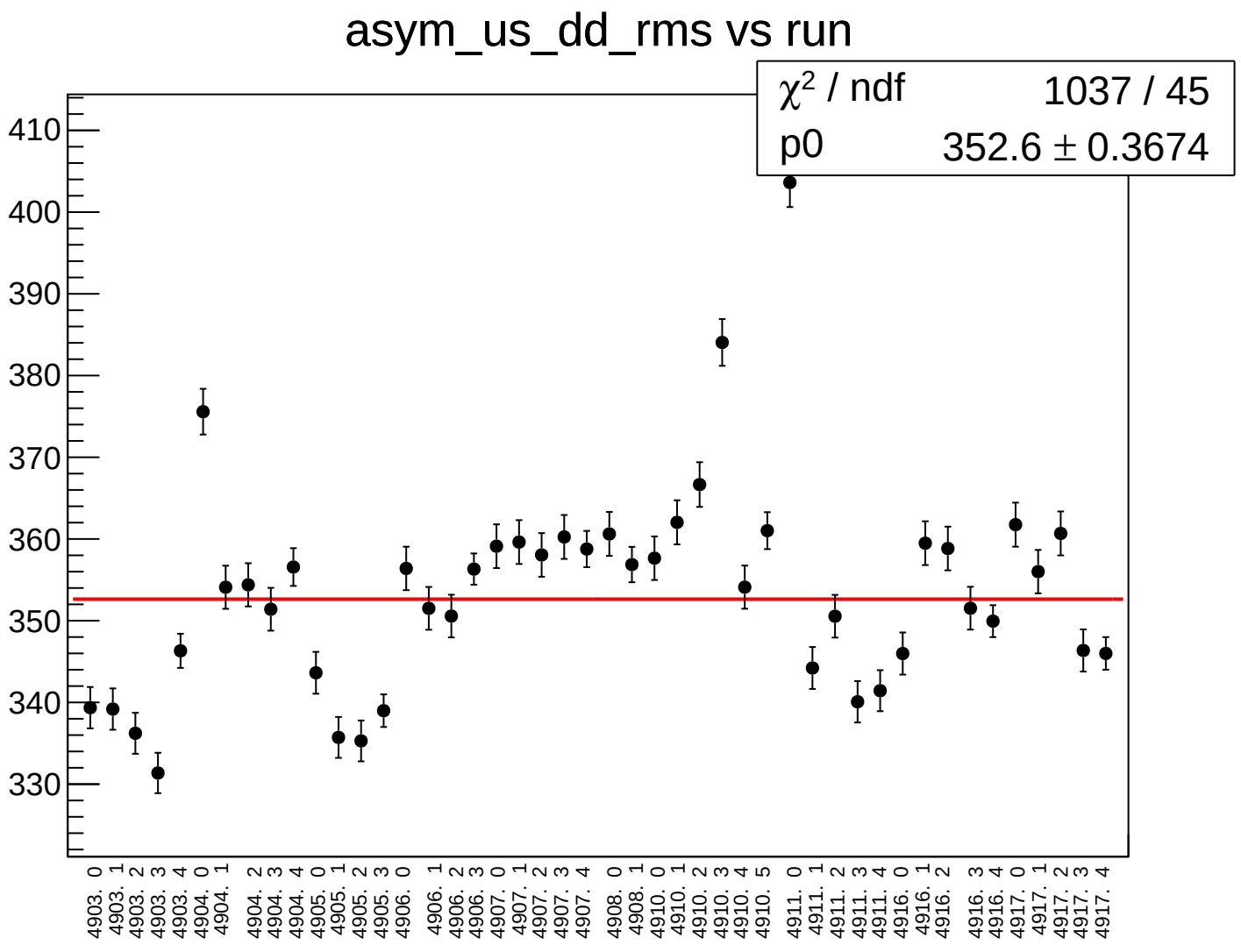

asym_us_dd_correction_mean vs run
χ² / ndf 35.77 / 45
p0 200.7 ± 504.5
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 1340
Std Dev 1315
1.5
1
0.5
0
−0.5
−1
−1.5

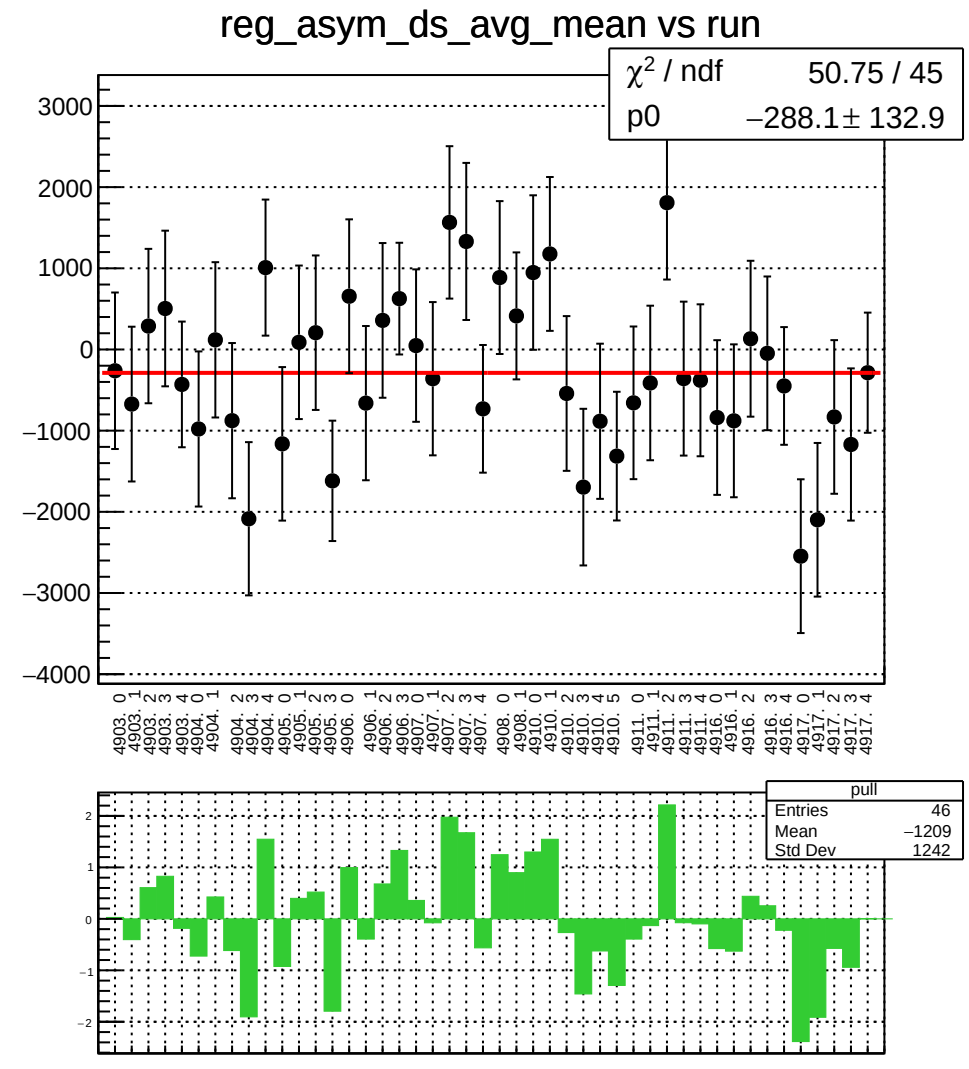

pull1D
Entries 46
Mean 0.001261
Std Dev 0.8818
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

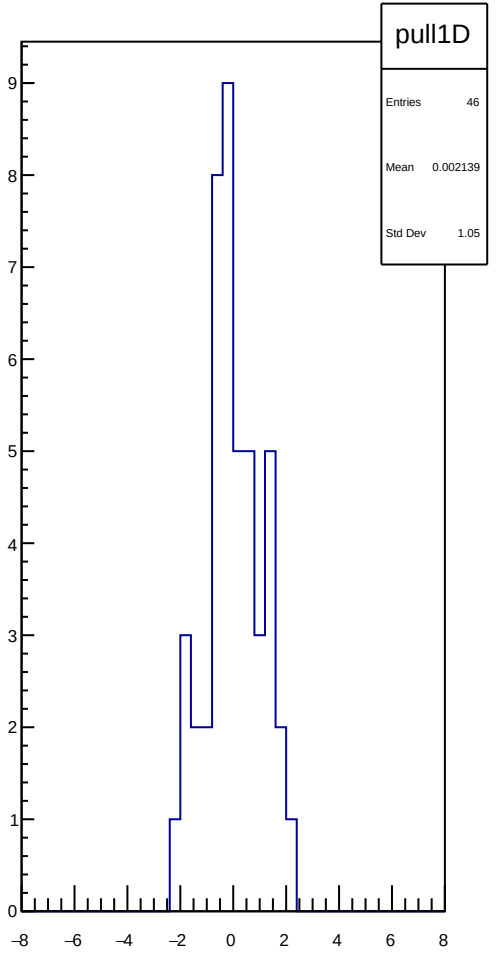

asym_us_dd_correction_rms vs run
χ² / ndf 1158 / 45
p0 342.4 ± 0.3567
400
390
380
370
360
350
340
330
320
310
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

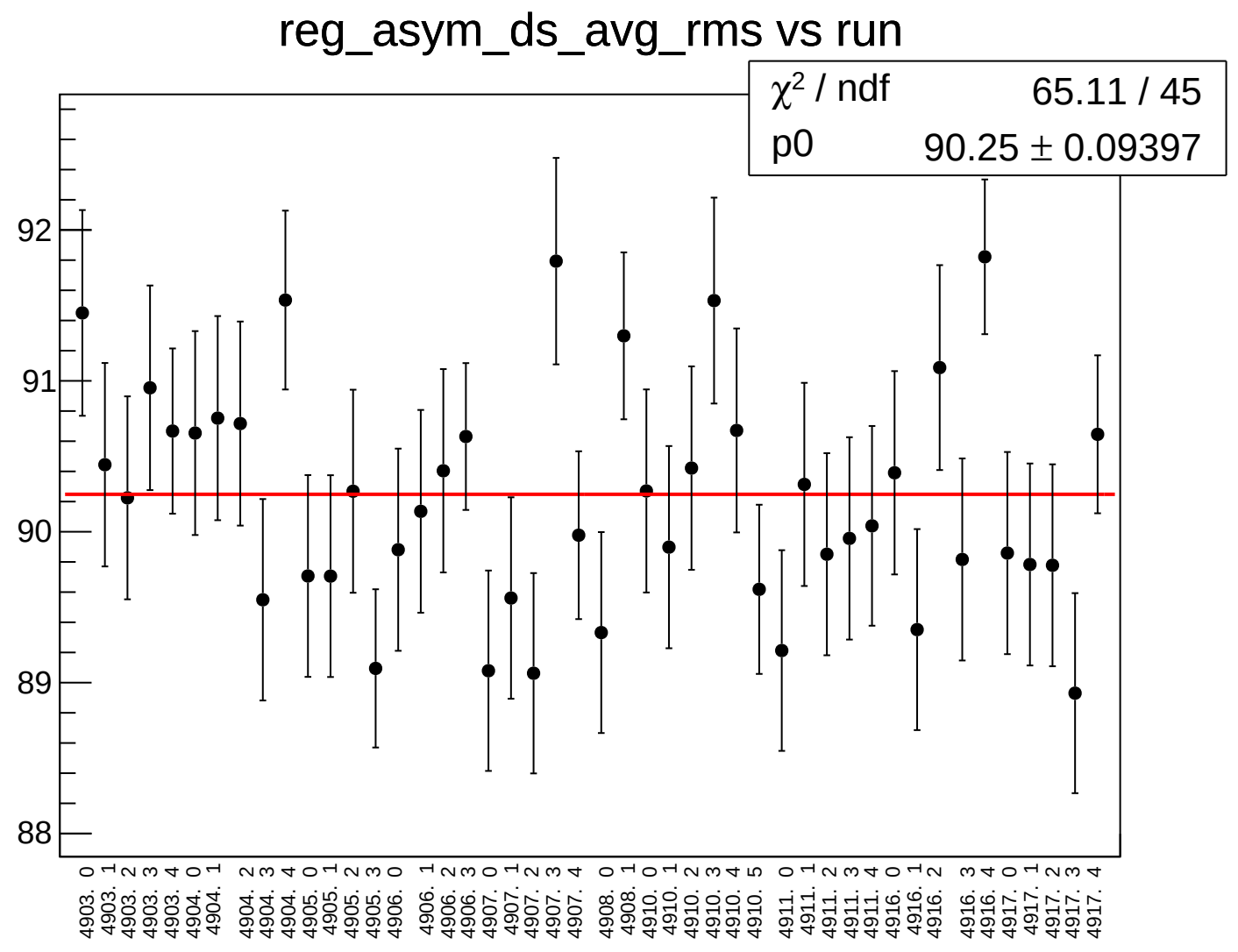

asym_us_dd_mean vs run
χ² / ndf 33.31 / 45
p0 −331.8 ± 519.5
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 389.5
Std Dev 363.6
1.5
1
0.5
0
−0.5
−1
−1.5

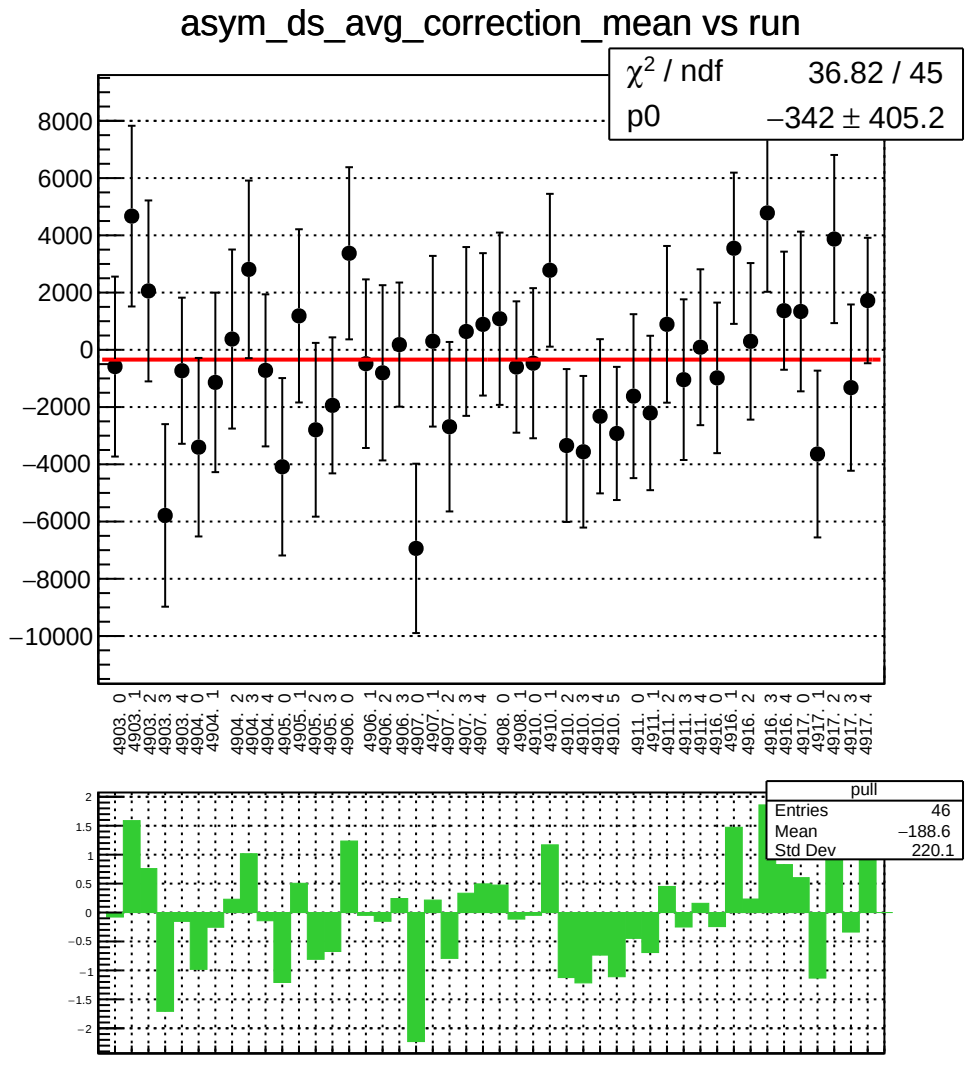

pull1D
Entries 46
Mean −0.005396
Std Dev 0.8509
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

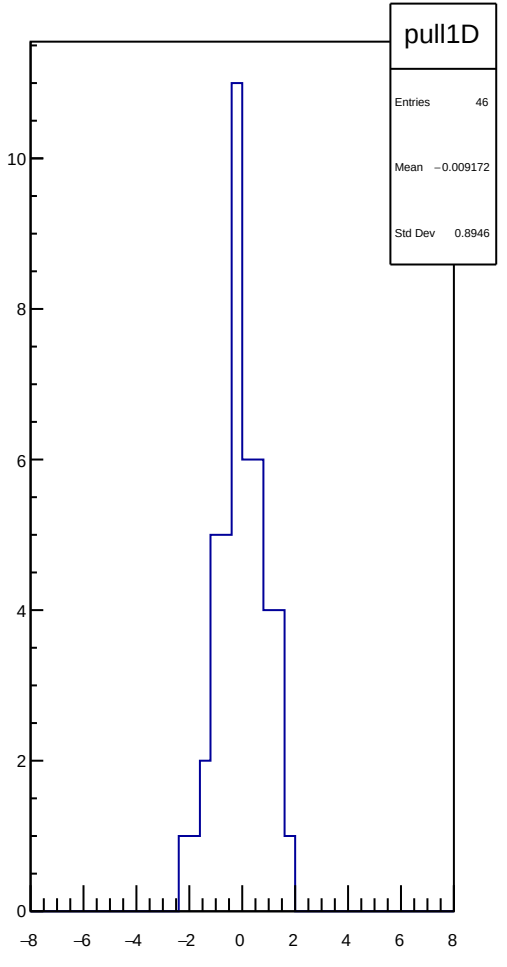

asym_us_dd_rms vs run
χ² / ndf 1037 / 45
p0 352.6 ± 0.3674
410
400
390
380
370
360
350
340
330
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

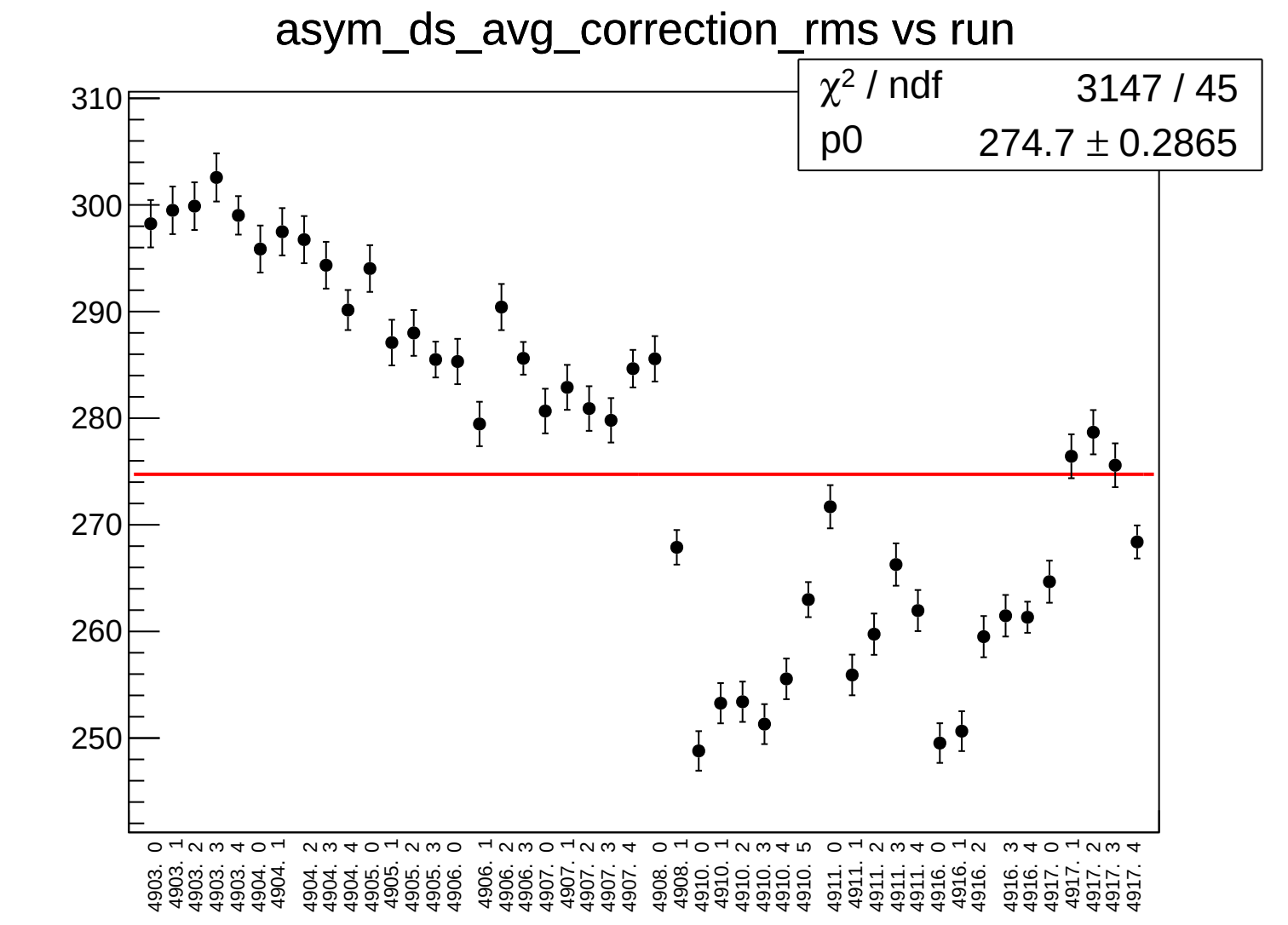

reg_asym_ds_avg_mean vs run
χ² / ndf 50.75 / 45
p0 −288.1± 132.9
pull
Entries 46
Mean −1209
Std Dev 1242

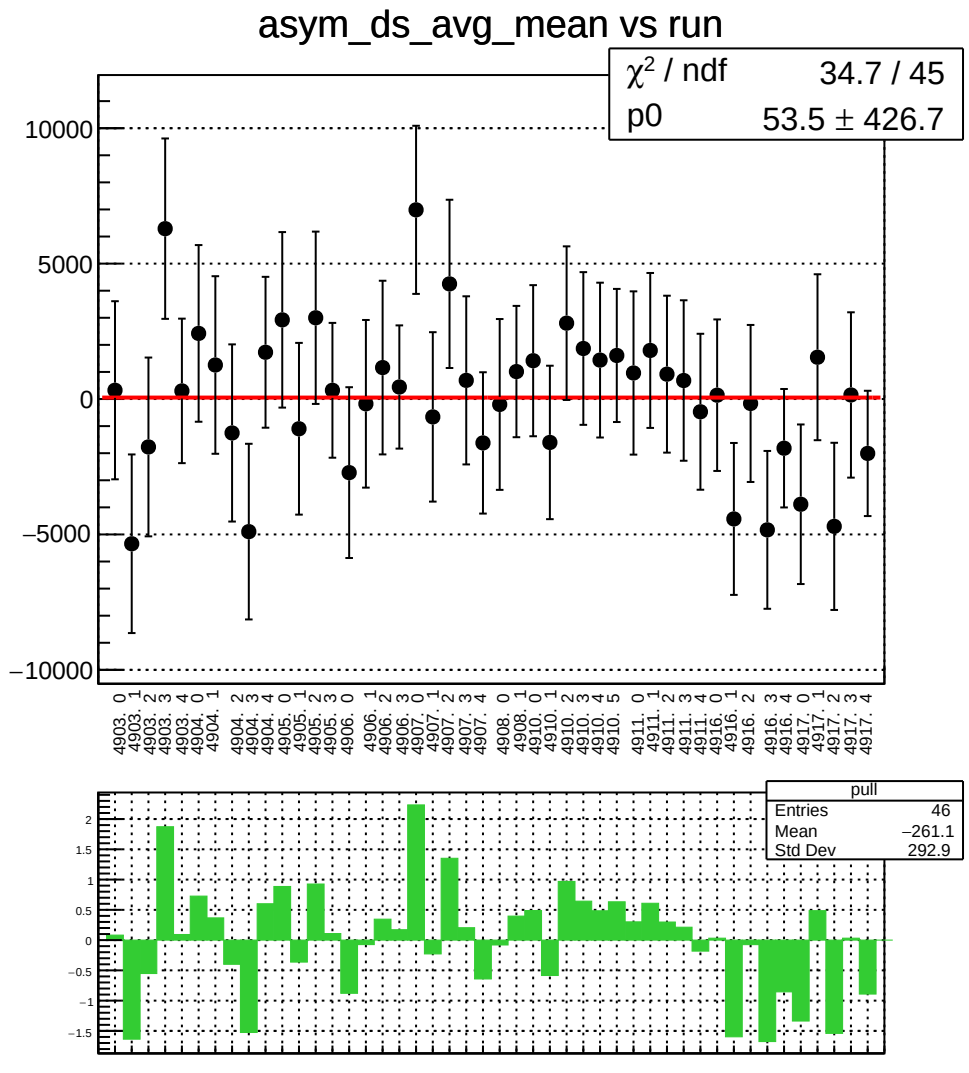

pull1D
Entries 46
Mean 0.002139
Std Dev 1.05

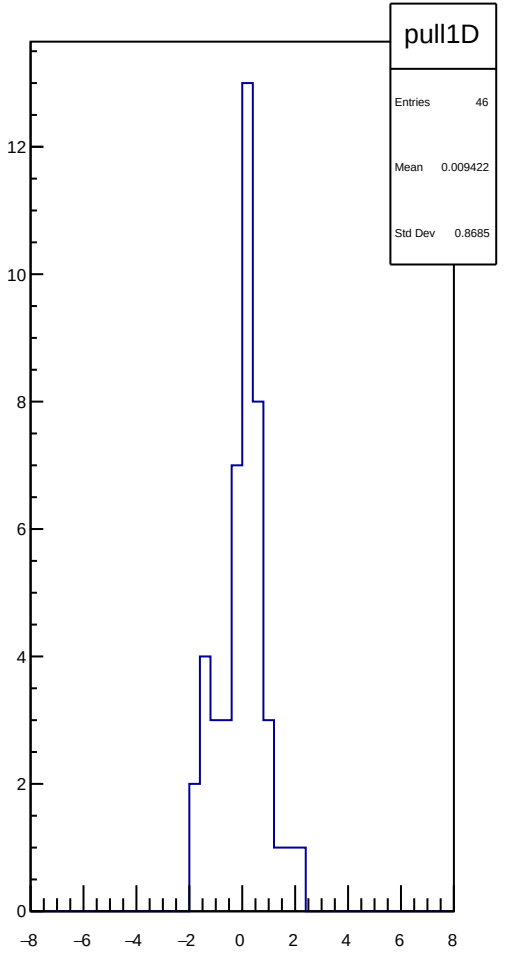

reg_asym_ds_avg_rms vs run
χ² / ndf 65.11 / 45
p0 90.25 ± 0.09397
92
91
90
89
88
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

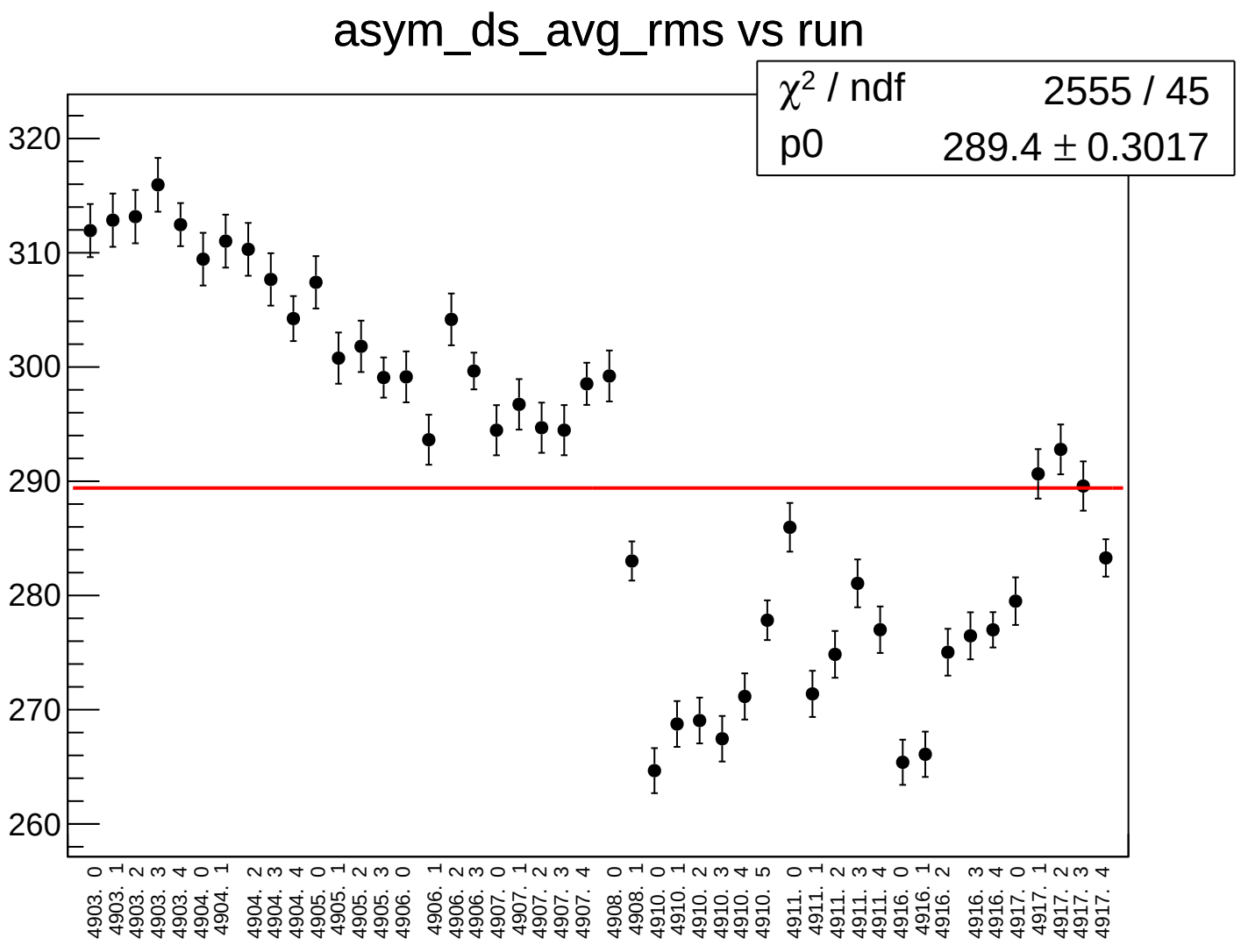

asym_ds_avg_correction_mean vs run
χ² / ndf 36.82 / 45
p0 −342 ± 405.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −188.6
Std Dev 220.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

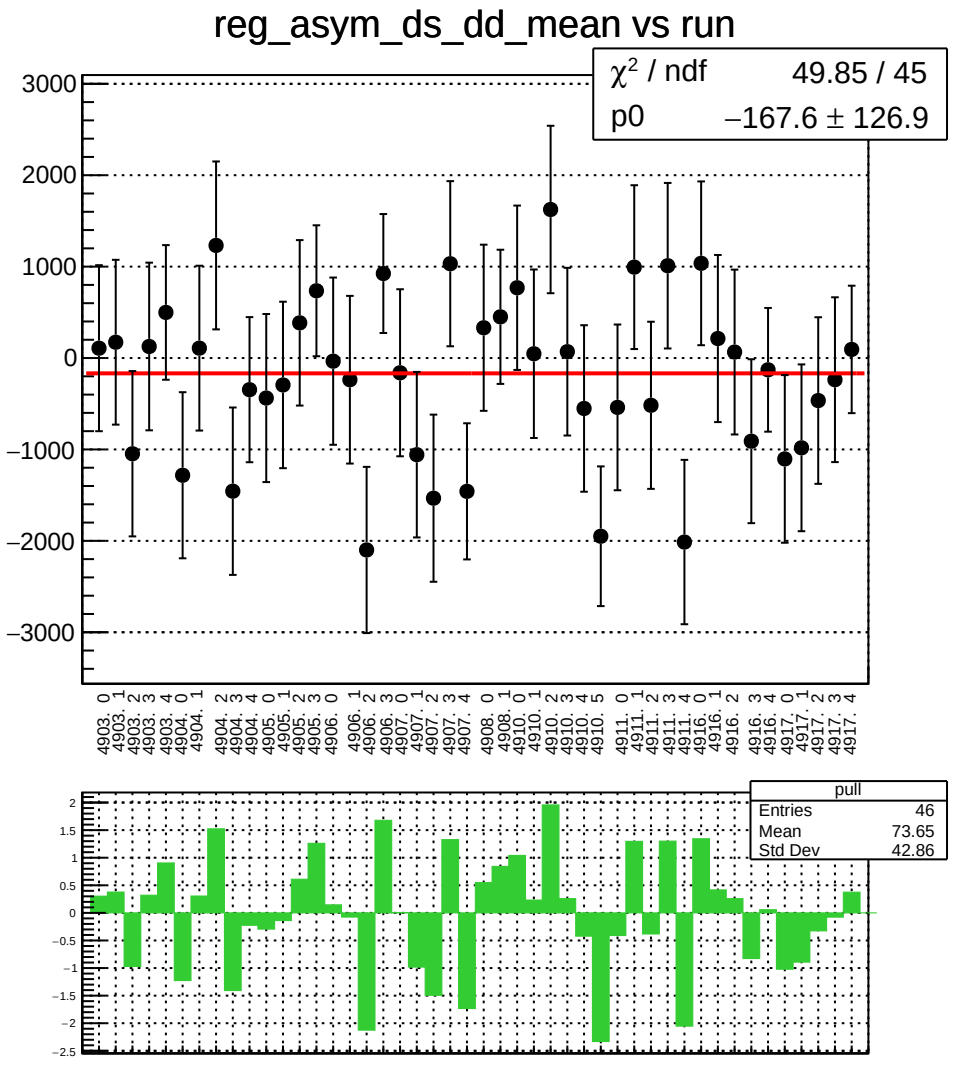

pull1D
Entries 46
Mean −0.009172
Std Dev 0.8946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

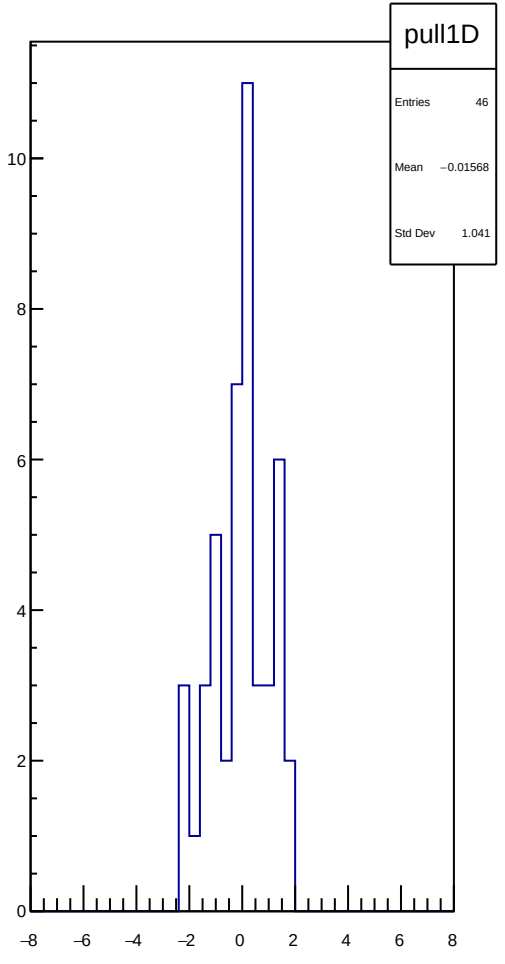

asym_ds_avg_correction_rms vs run
χ² / ndf 3147 / 45
p0 274.7 ± 0.2865
310
300
290
280
270
260
250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

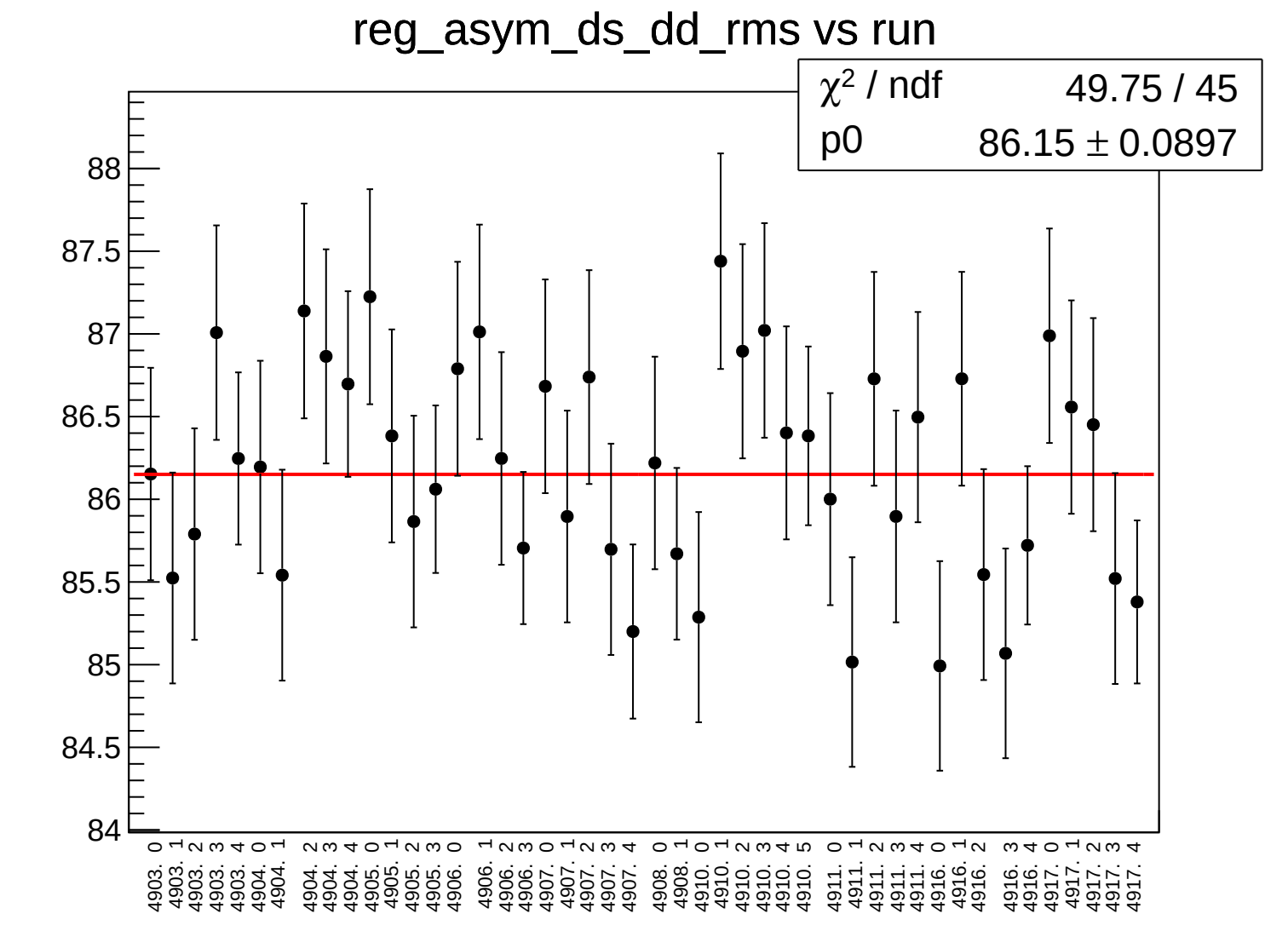

asym_ds_avg_mean vs run
χ² / ndf 34.7 / 45
p0 53.5 ± 426.7
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −261.1
Std Dev 292.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

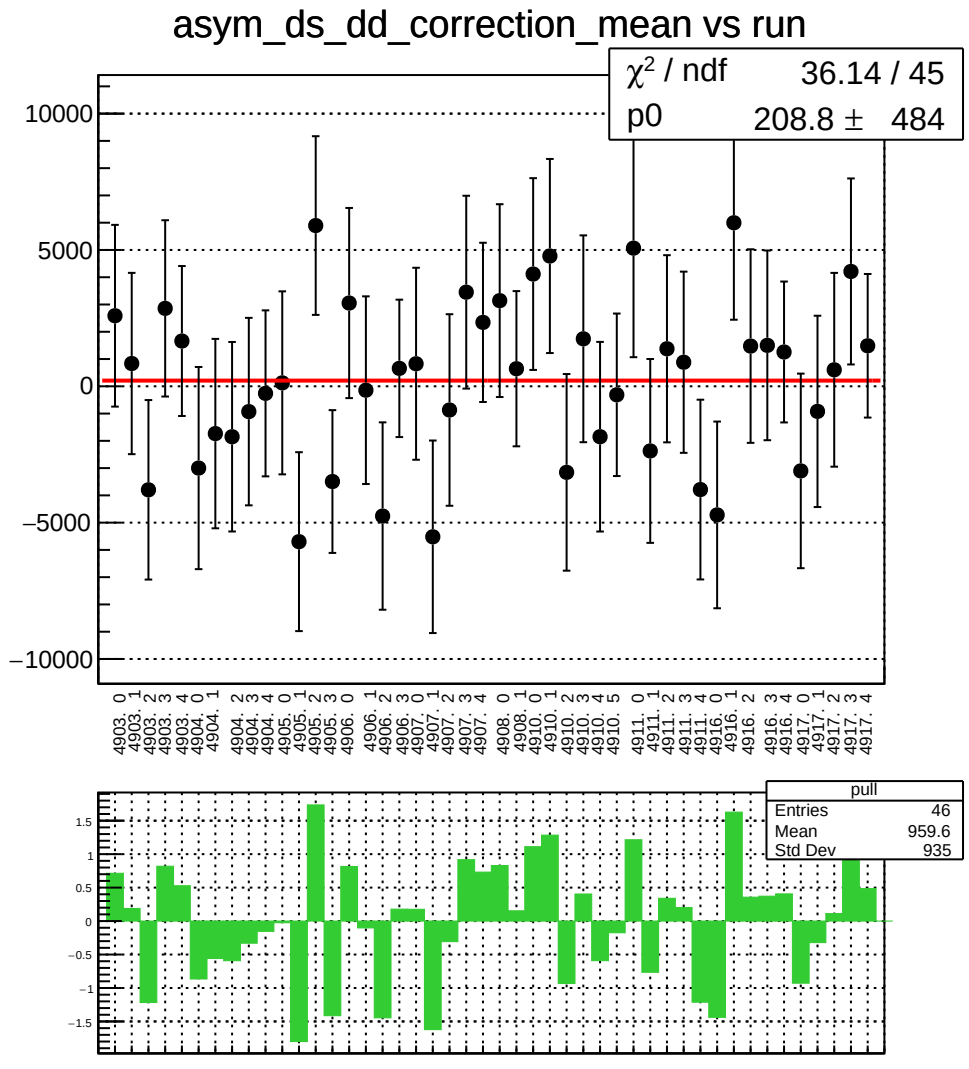

pull1D
Entries 46
Mean 0.009422
Std Dev 0.8685
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

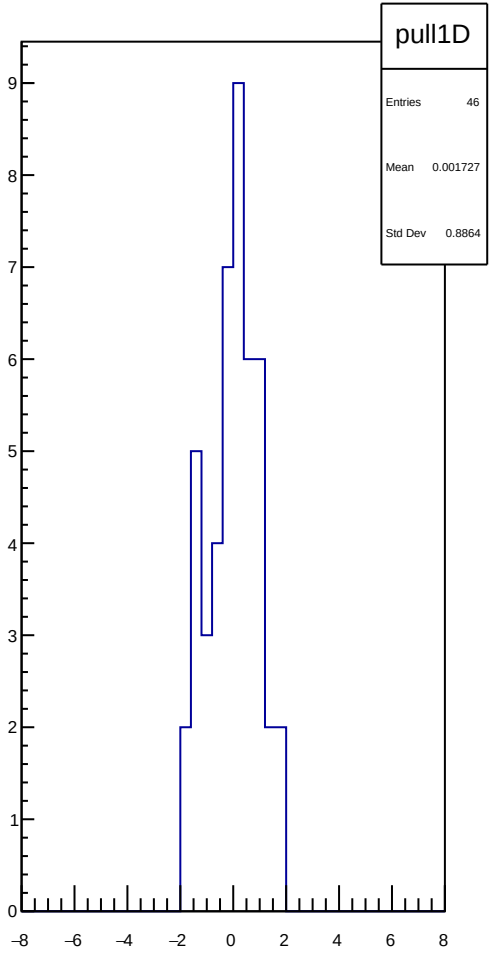

asym_ds_avg_rms vs run
χ² / ndf 2555 / 45
p0 289.4 ± 0.3017
320
310
300
290
280
270
260
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

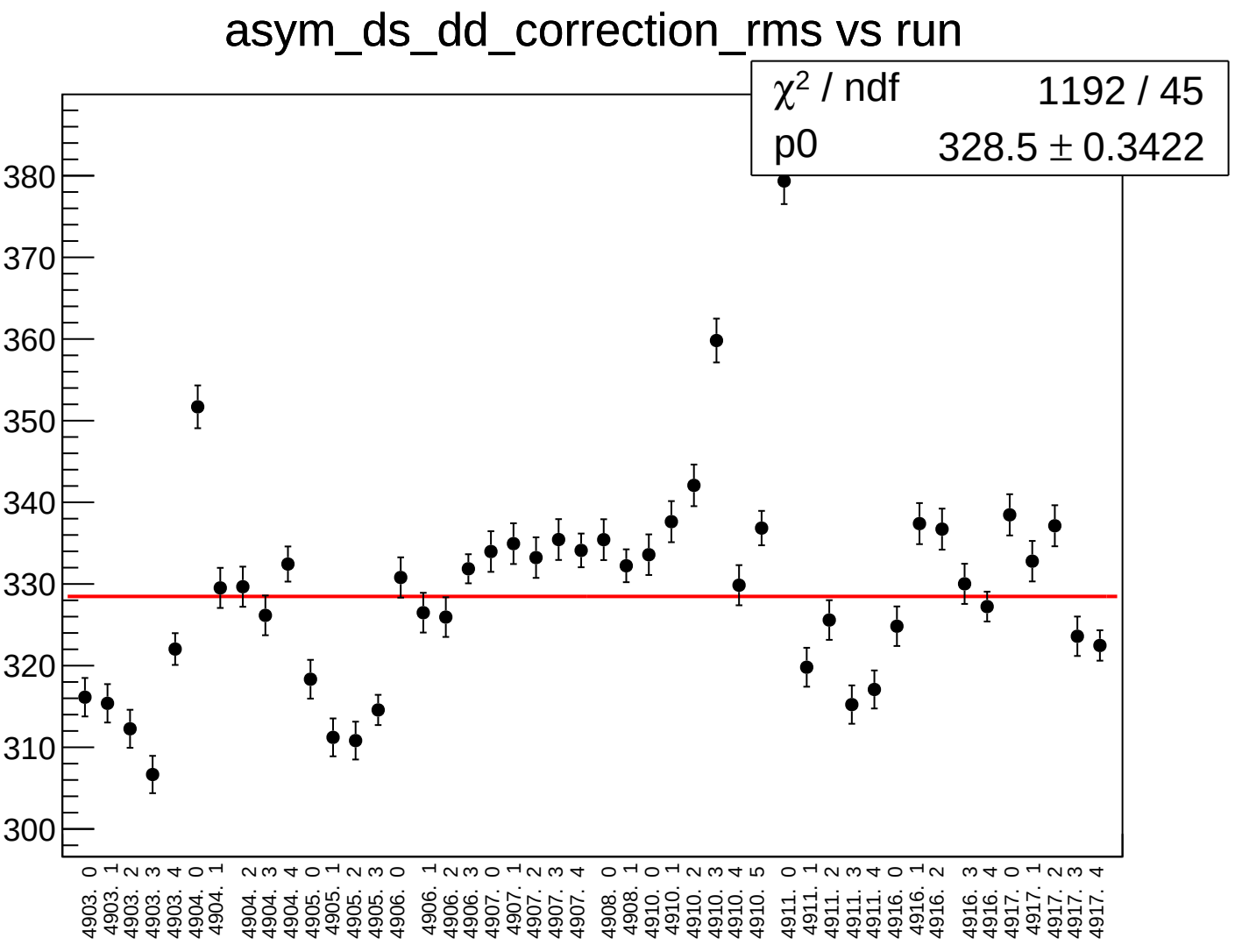

reg_asym_ds_dd_mean vs run
χ² / ndf 49.85 / 45
p0 −167.6 ± 126.9
pull
Entries 46
Mean 73.65
Std Dev 42.86

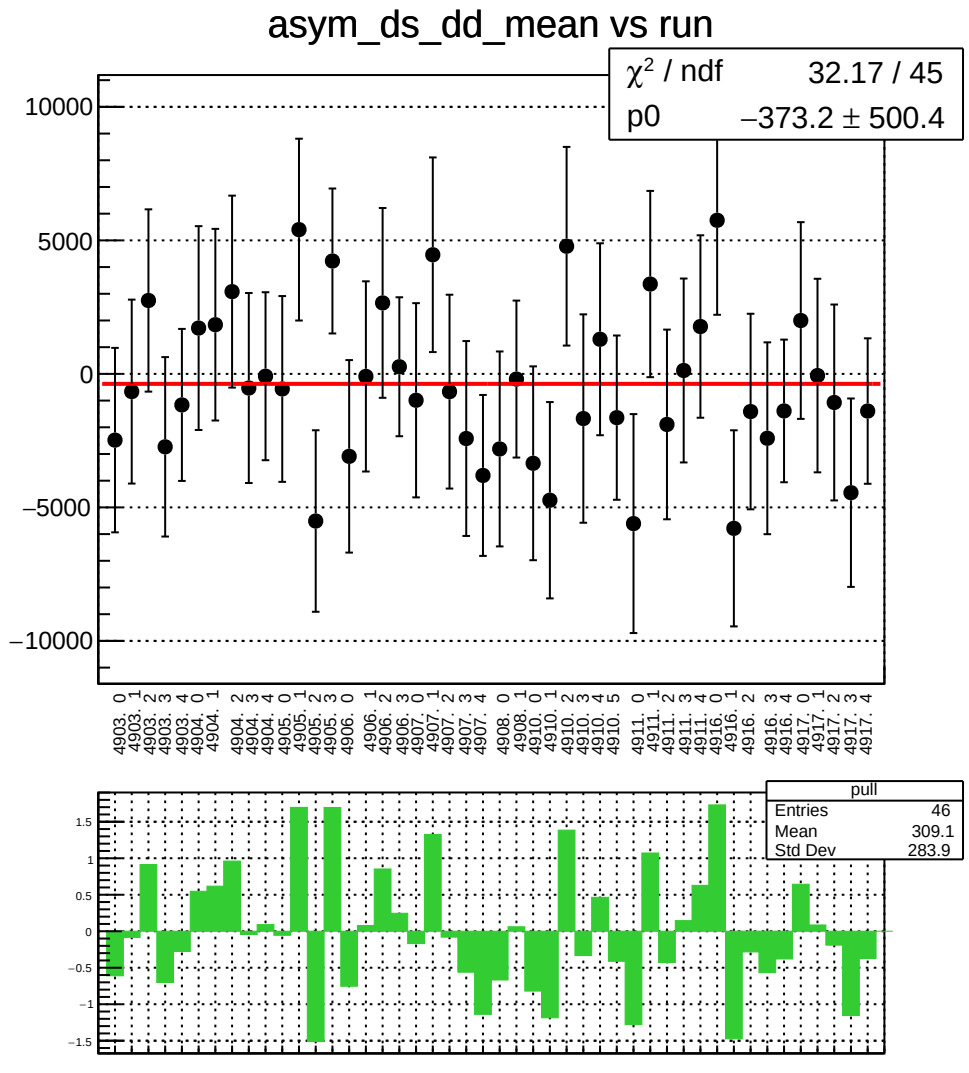

pull1D
Entries 46
Mean −0.01568
Std Dev 1.041

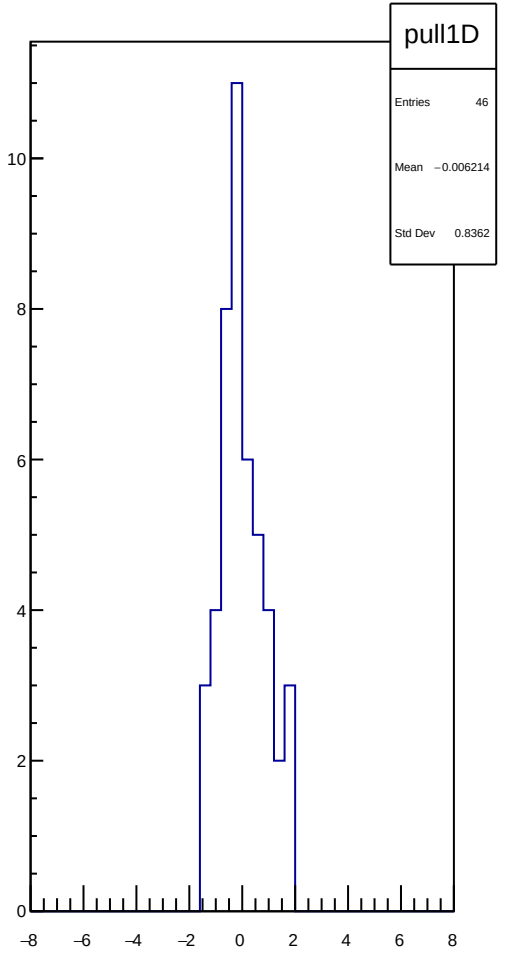

reg_asym_ds_dd_rms vs run
χ² / ndf 49.75 / 45
p0 86.15 ± 0.0897
88
87.5
87
86.5
86
85.5
85
84.5
84
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

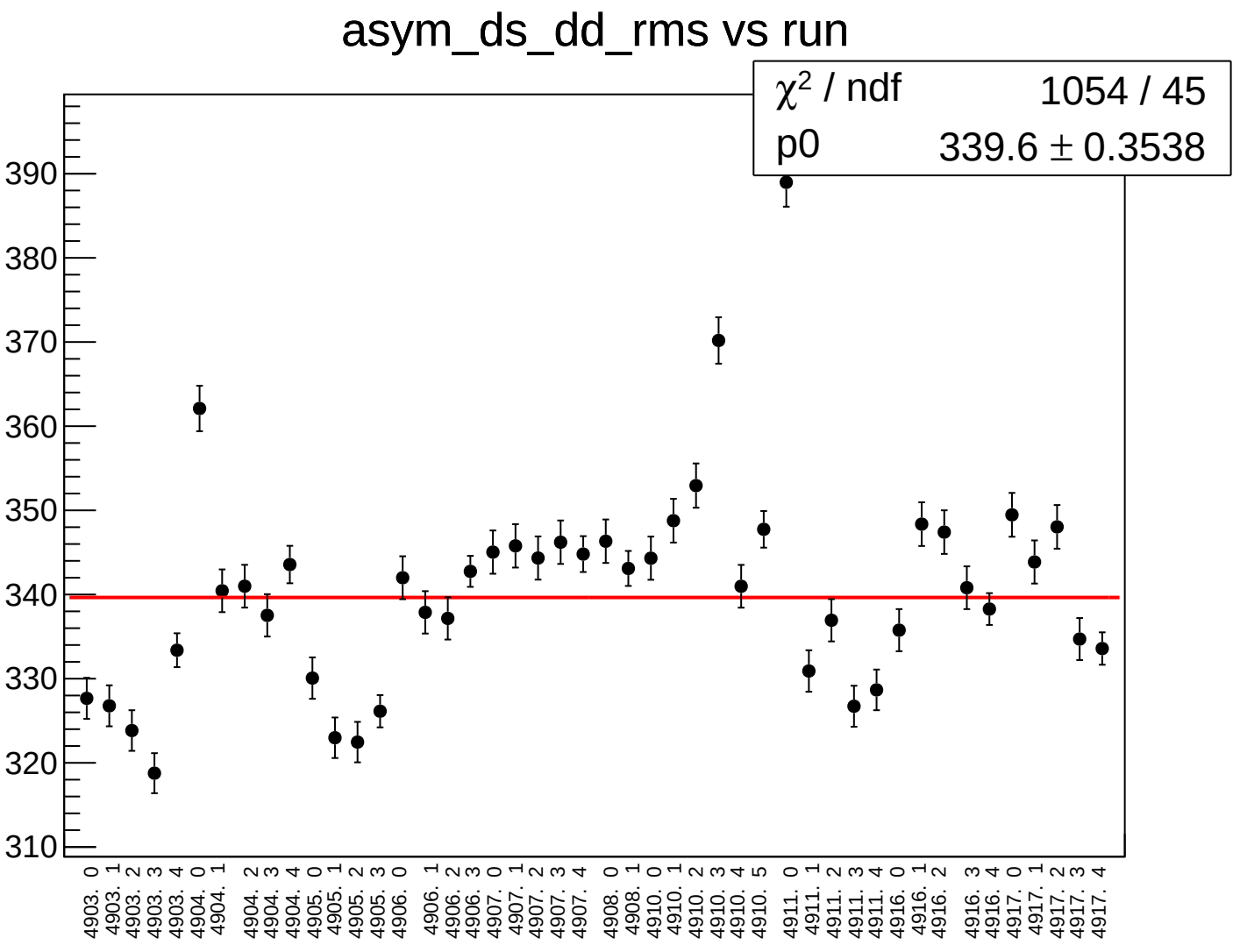

asym_ds_dd_correction_mean vs run
χ² / ndf 36.14 / 45
p0 208.8 ± 484
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 959.6
Std Dev 935
1.5
1
0.5
0
−0.5
−1
−1.5

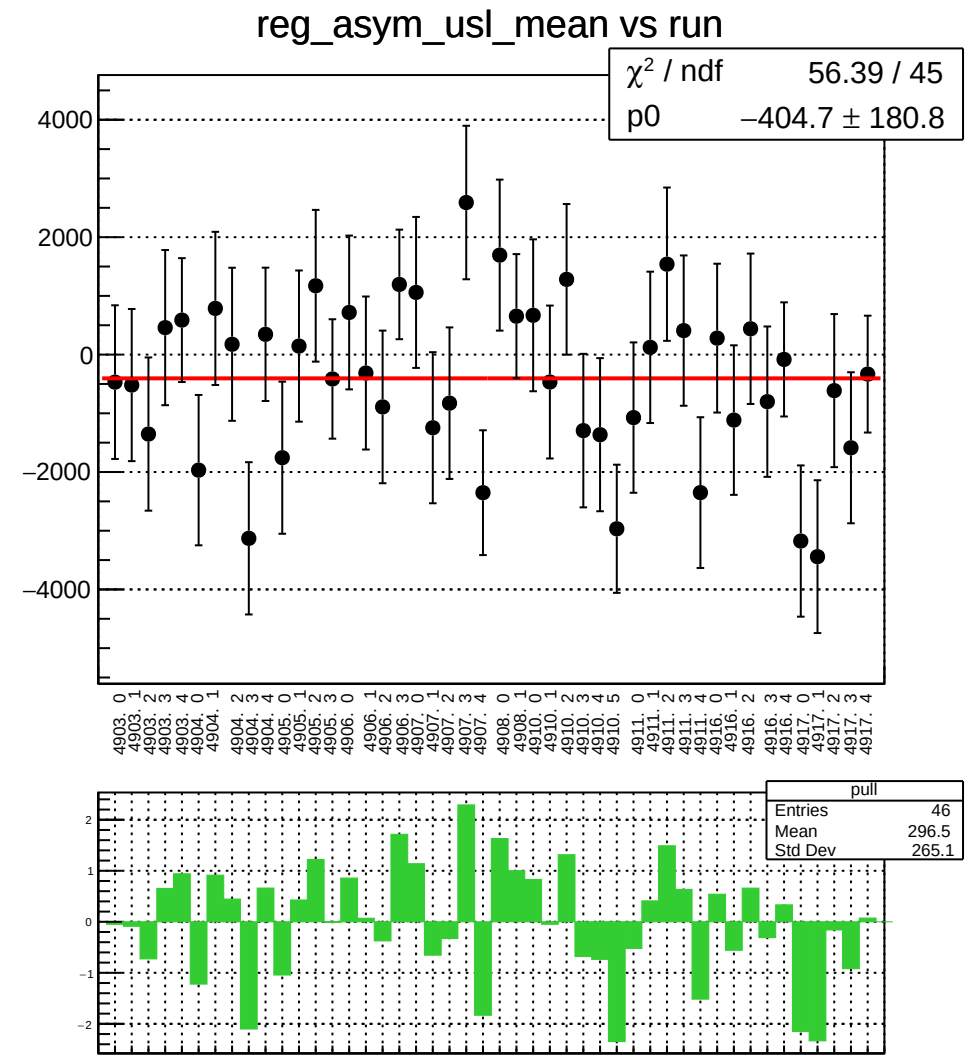

pull1D
Entries 46
Mean 0.001727
Std Dev 0.8864
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

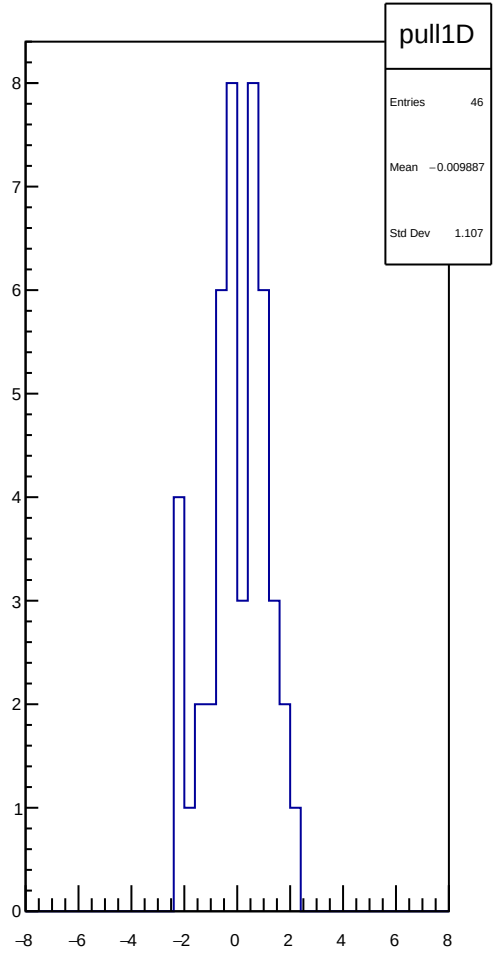

asym_ds_dd_correction_rms vs run
χ² / ndf 1192 / 45
p0 328.5 ± 0.3422
380
370
360
350
340
330
320
310
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

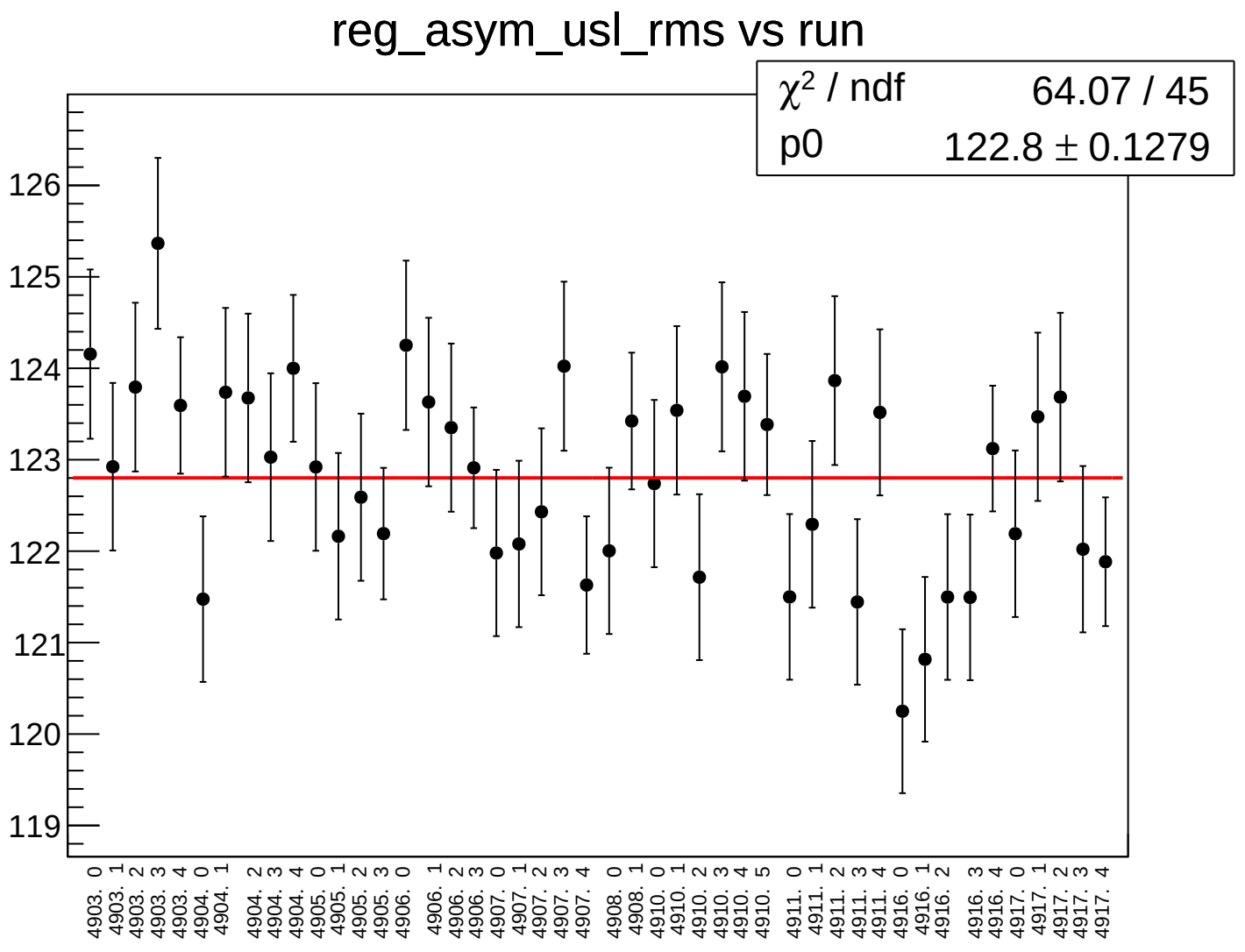

asym_ds_dd_mean vs run
χ² / ndf 32.17 / 45
p0 −373.2 ± 500.4
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 309.1
Std Dev 283.9
1.5
1
0.5
0
−0.5
−1
−1.5

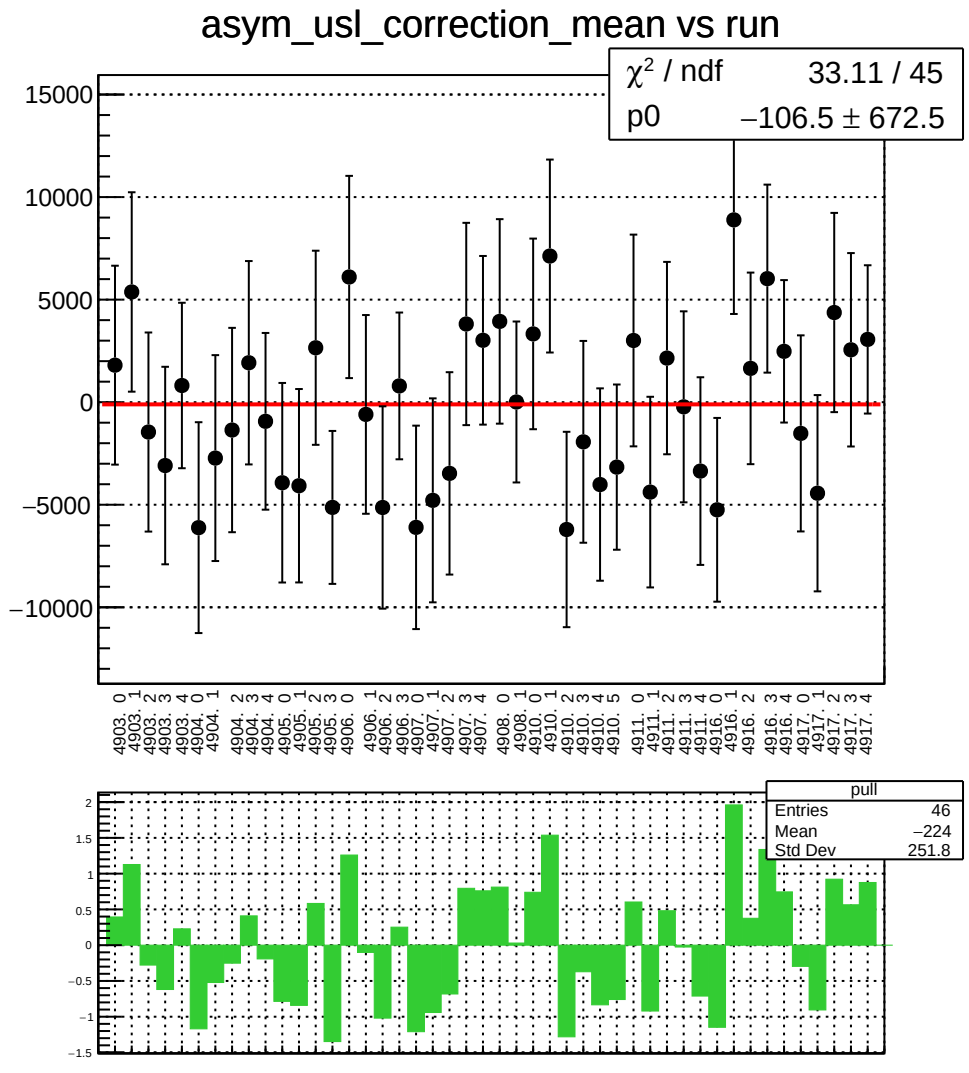

pull1D
Entries 46
Mean −0.006214
Std Dev 0.8362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

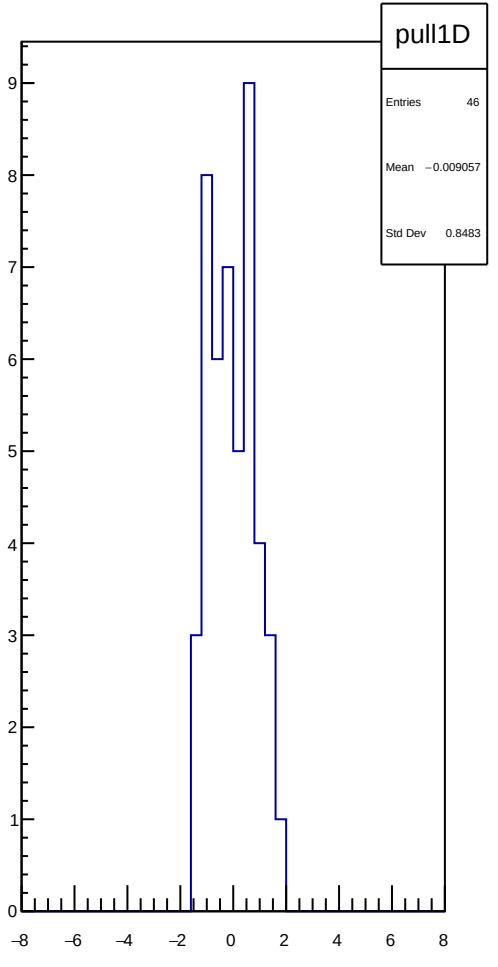

asym_ds_dd_rms vs run
χ² / ndf 1054 / 45
p0 339.6 ± 0.3538
390
380
370
360
350
340
330
320
310
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

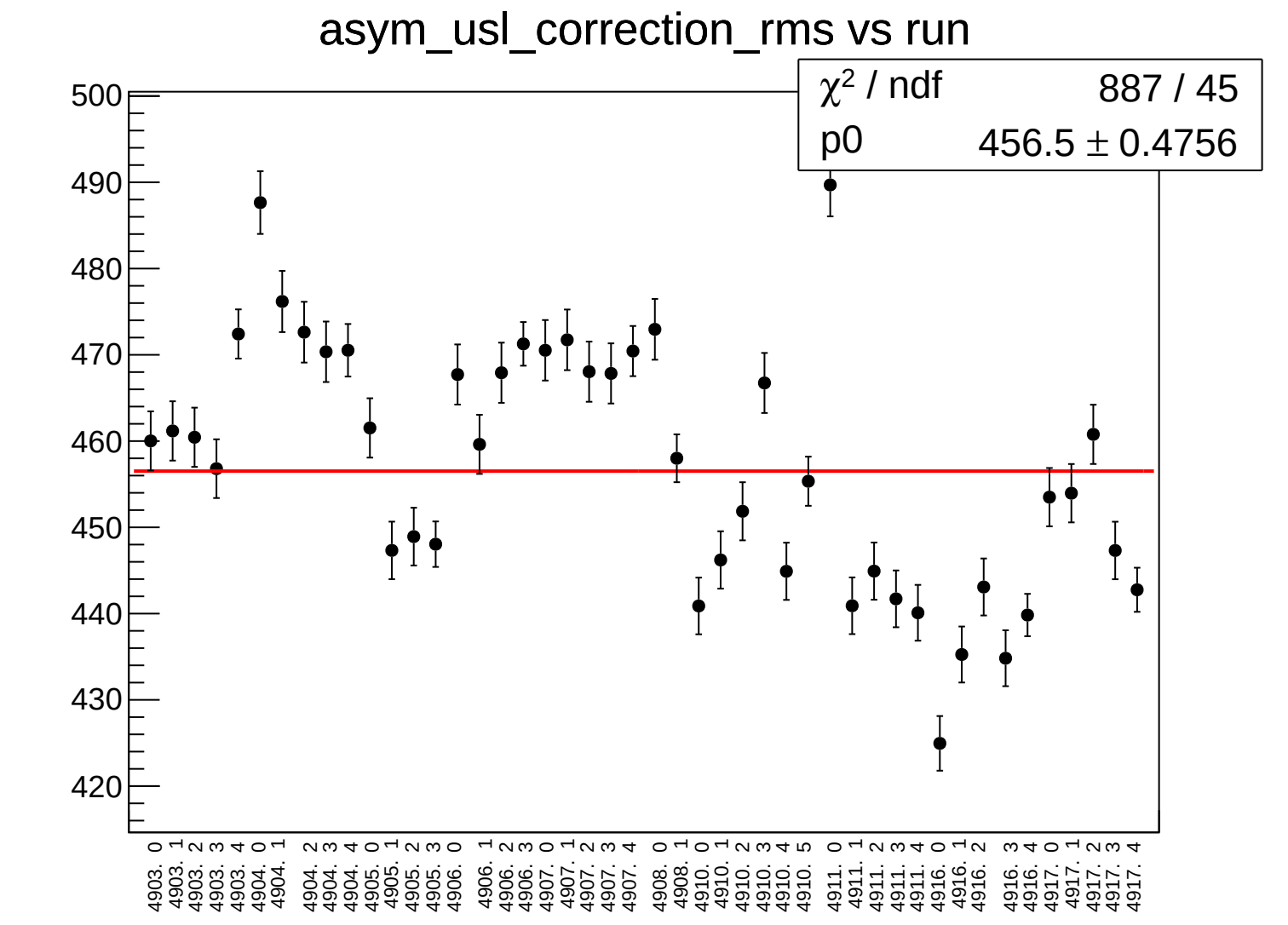

reg_asym_usl_mean vs run
χ² / ndf 56.39 / 45
p0 −404.7 ± 180.8
4000
2000
0
−2000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 296.5
Std Dev 265.1
2
1
0
−1
−2

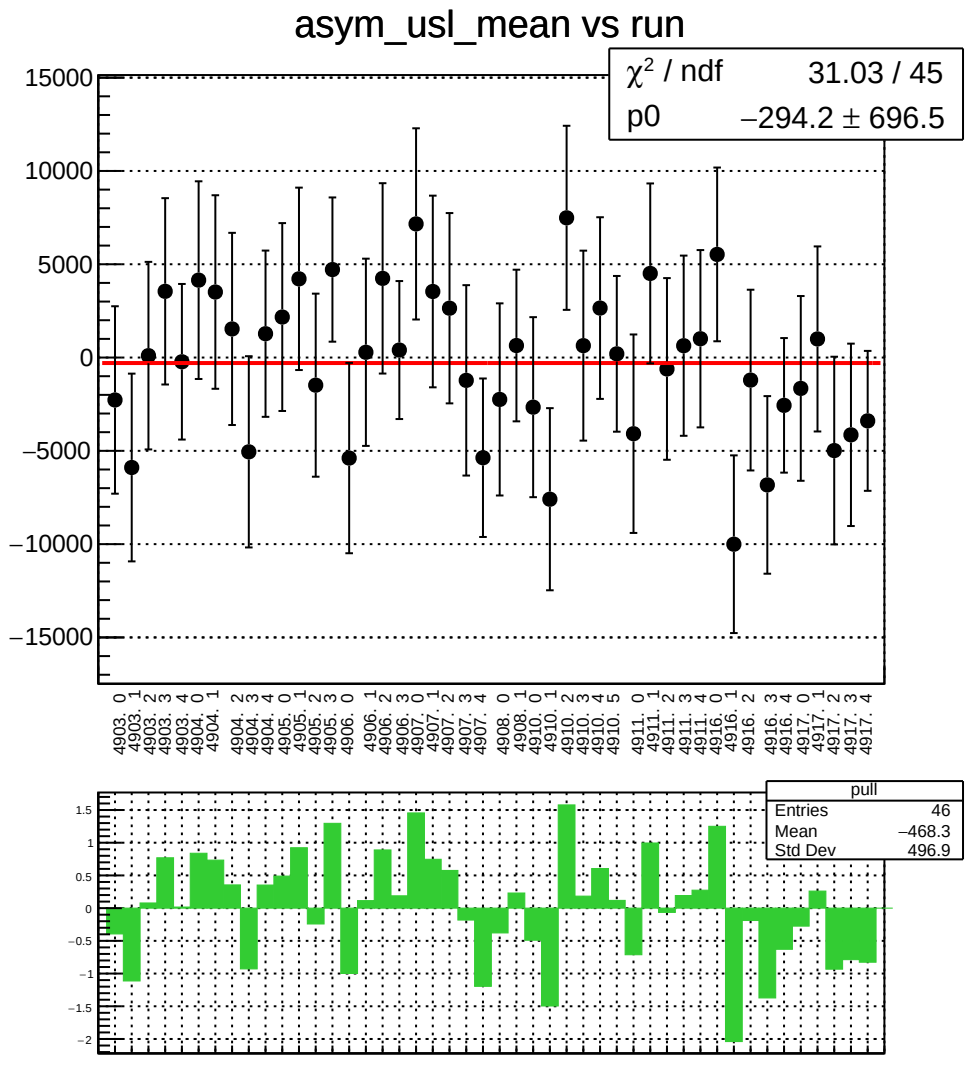

pull1D
Entries 46
Mean −0.009887
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

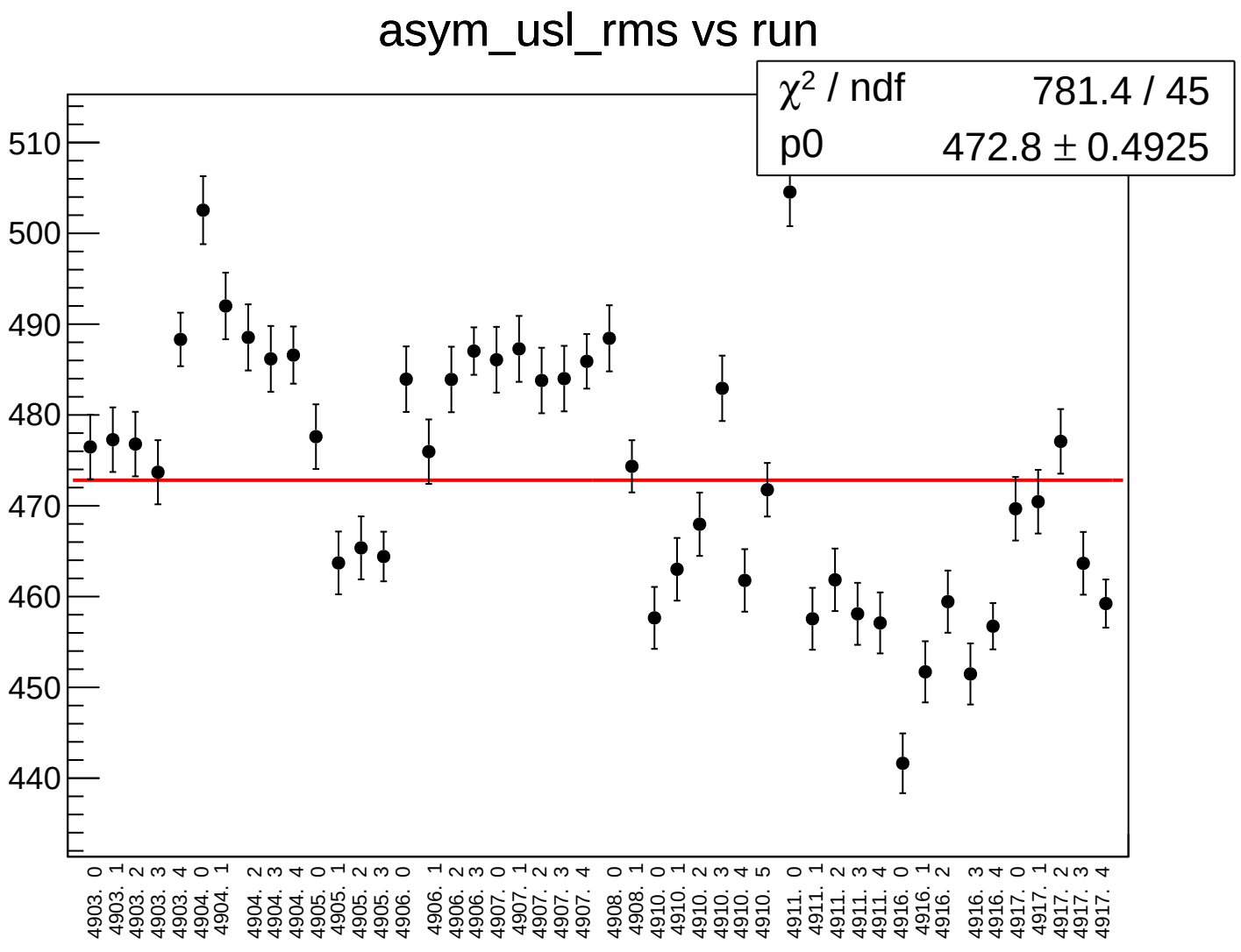

reg_asym_usl_rms vs run
χ² / ndf 64.07 / 45
p0 122.8 ± 0.1279
126
125
124
123
122
121
120
119
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

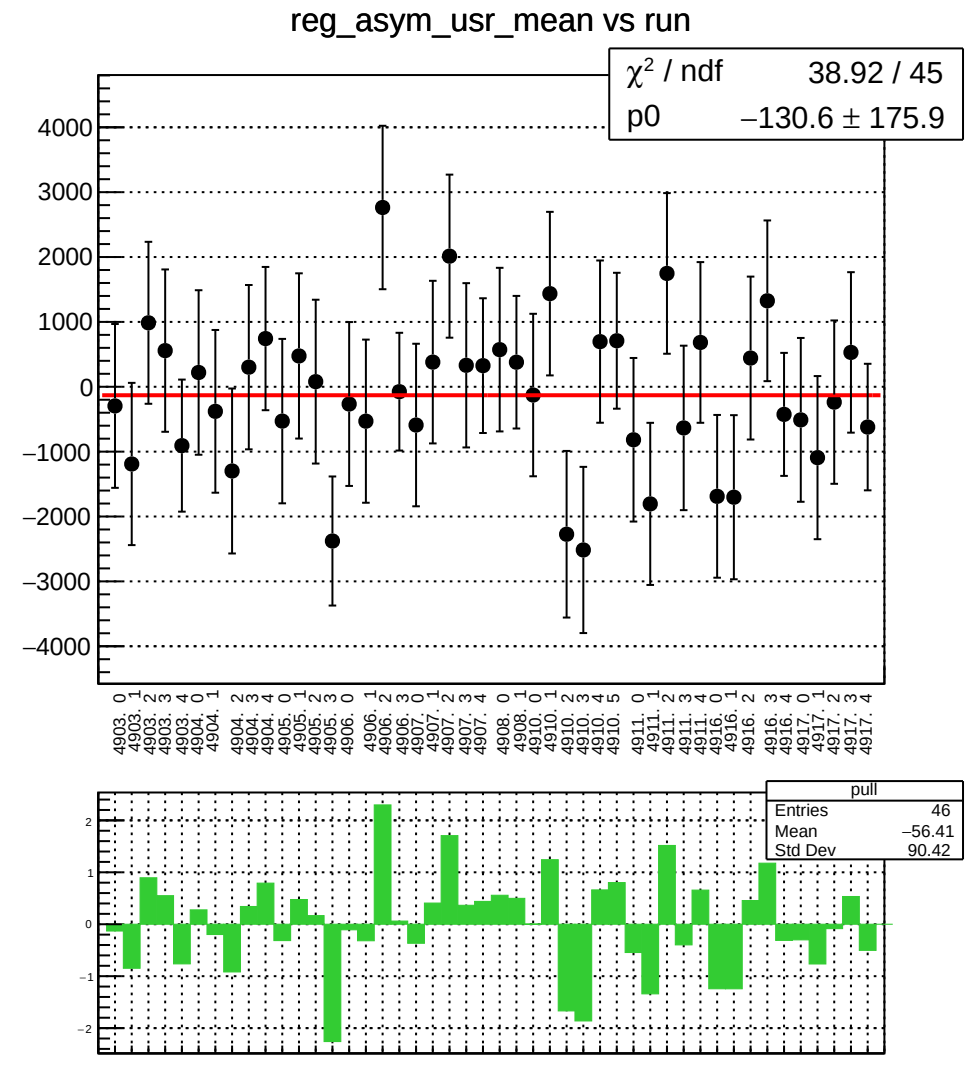

asym_usl_correction_mean vs run
χ² / ndf 33.11 / 45
p0 −106.5 ± 672.5
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −224
Std Dev 251.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

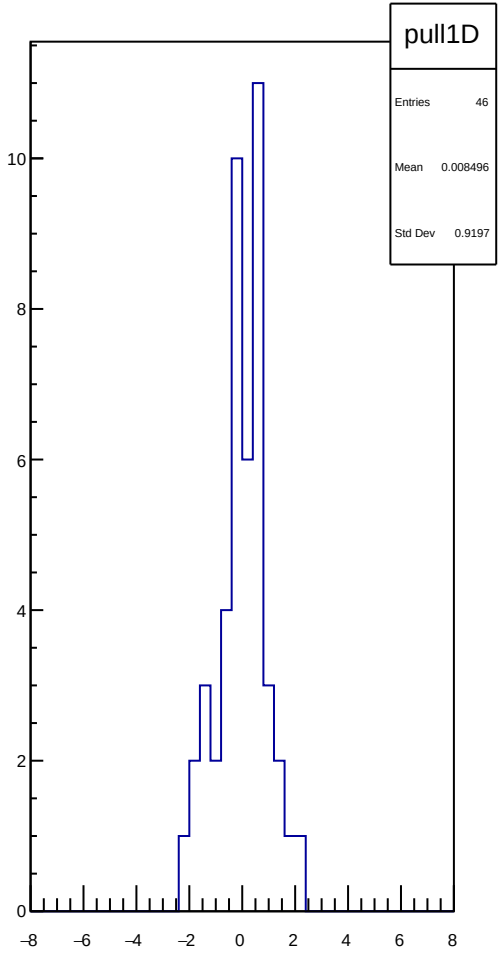

pull1D
Entries 46
Mean −0.009057
Std Dev 0.8483
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

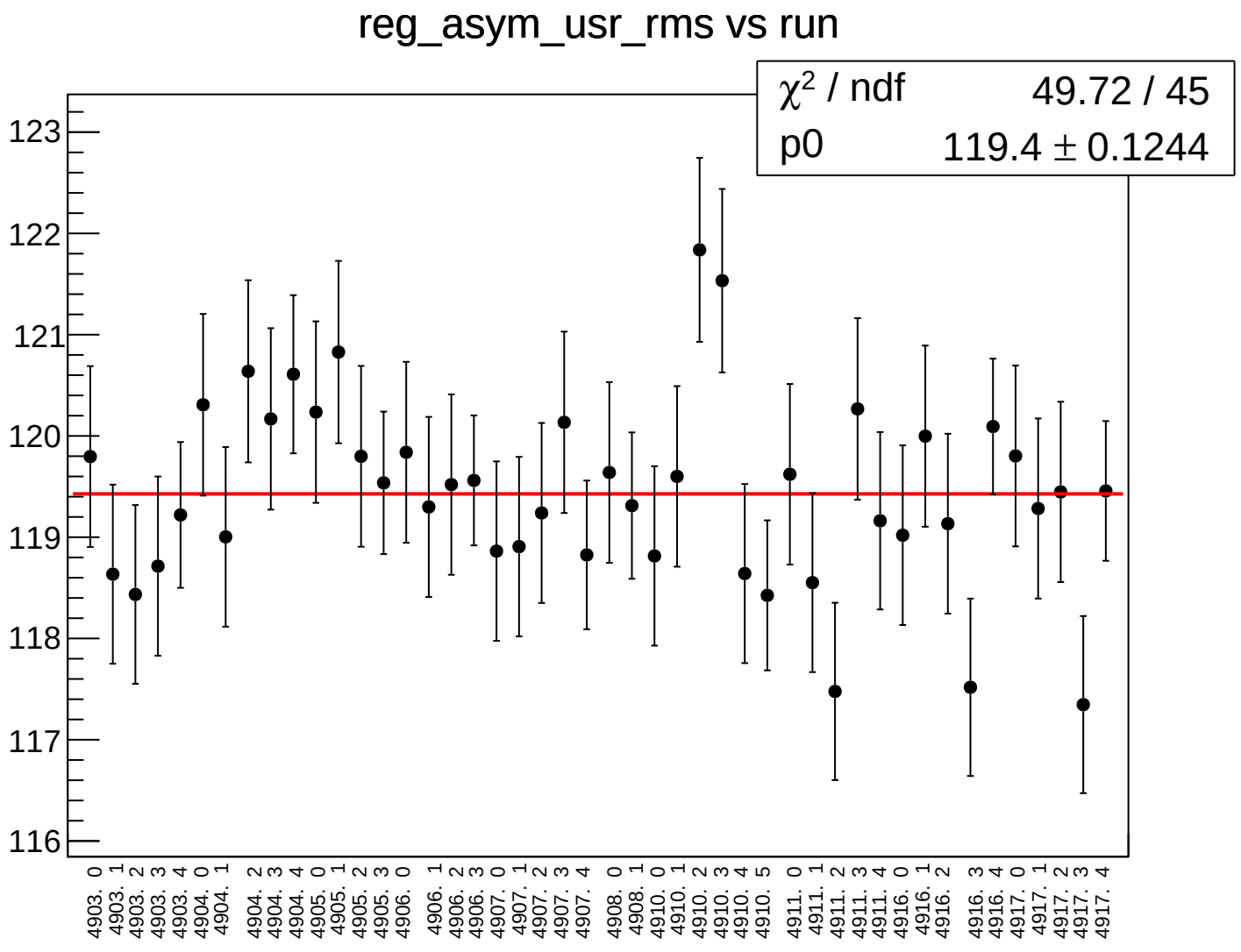

asym_usl_correction_rms vs run
χ² / ndf 887 / 45
p0 456.5 ± 0.4756
500
490
480
470
460
450
440
430
420
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

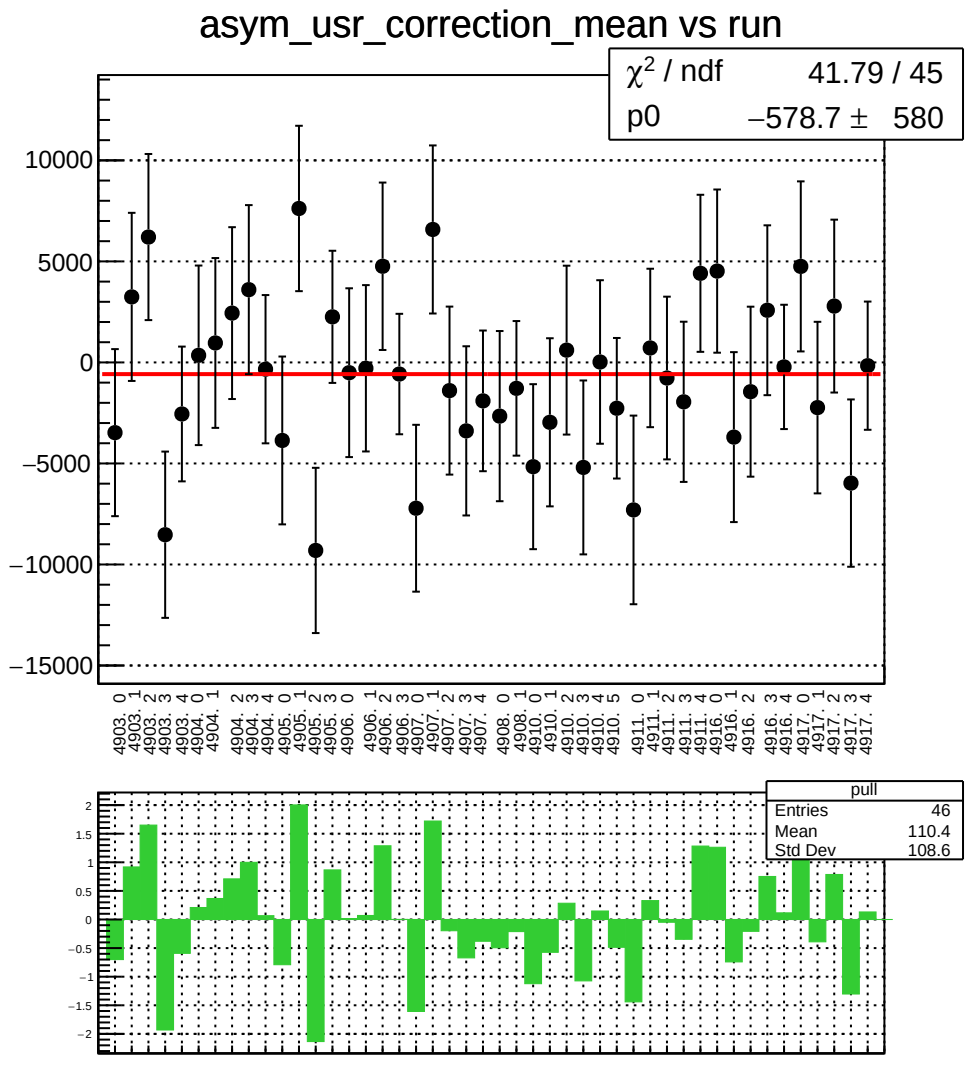

asym_usl_mean vs run
χ² / ndf 31.03 / 45
p0 −294.2 ± 696.5
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −468.3
Std Dev 496.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.005845
Std Dev 0.8213
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

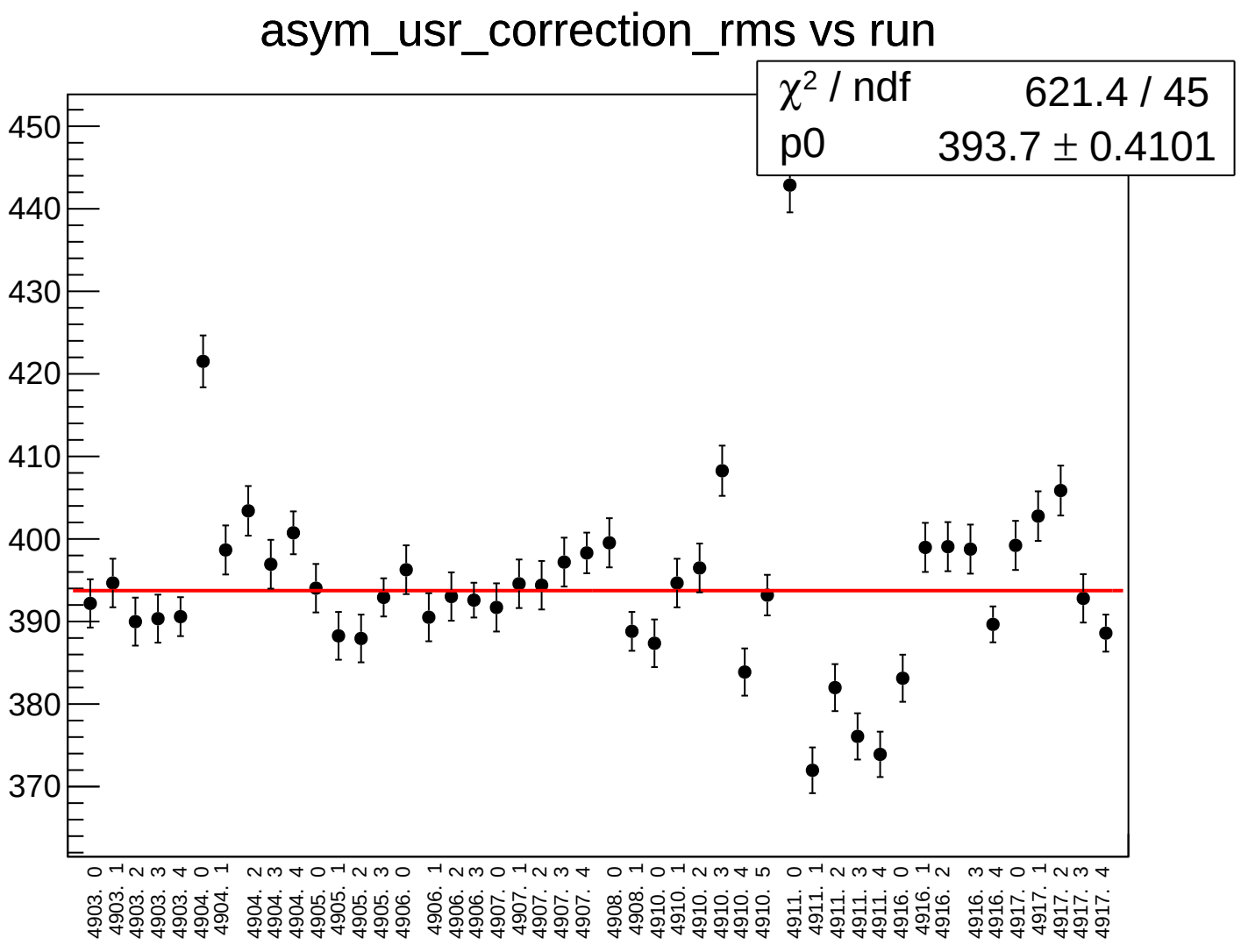

asym_usl_rms vs run
χ² / ndf 781.4 / 45
p0 472.8 ± 0.4925
510
500
490
480
470
460
450
440
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

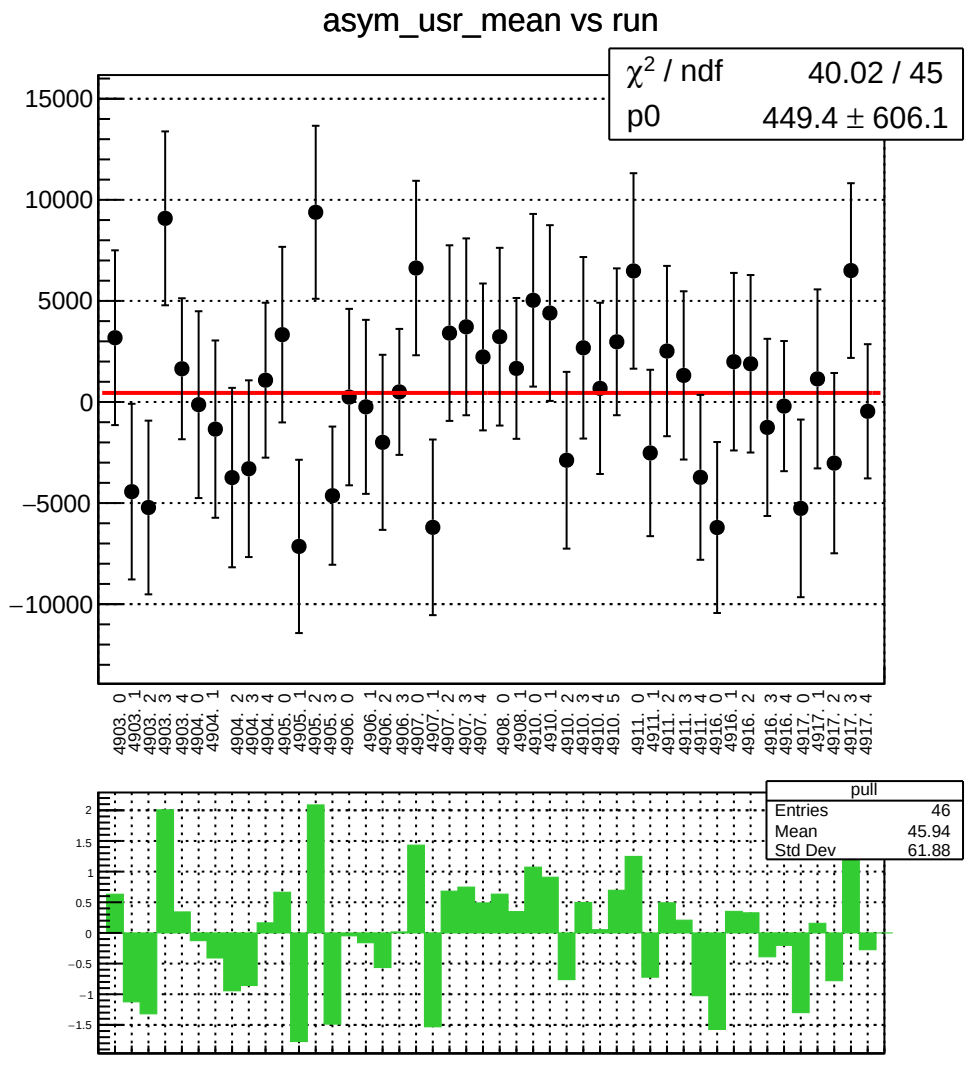

reg_asym_usr_mean vs run
χ² / ndf 38.92 / 45
p0 −130.6 ± 175.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −56.41
Std Dev 90.42
2
1
0
−1
−2

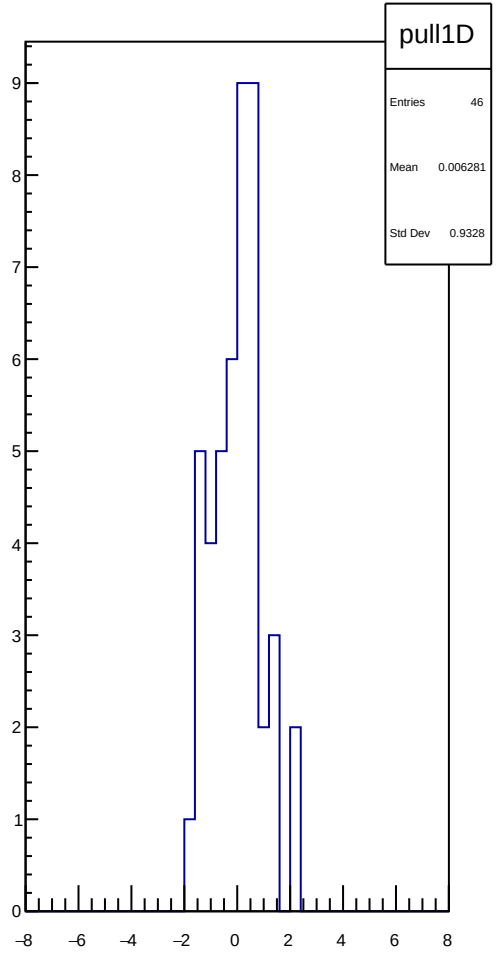

pull1D
Entries 46
Mean 0.008496
Std Dev 0.9197
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

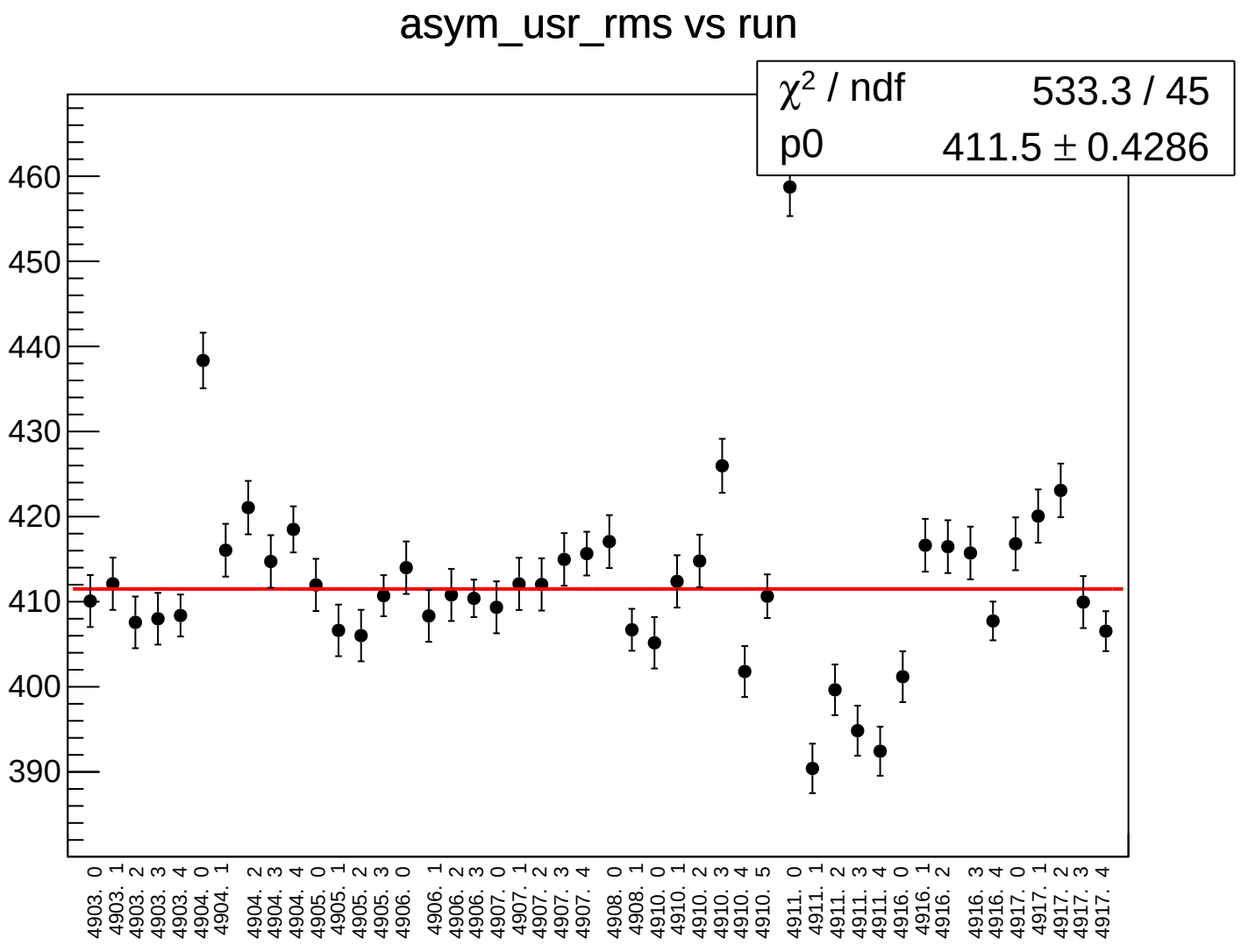

reg_asym_usr_rms vs run
χ² / ndf 49.72 / 45
p0 119.4 ± 0.1244
123
122
121
120
119
118
117
116
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

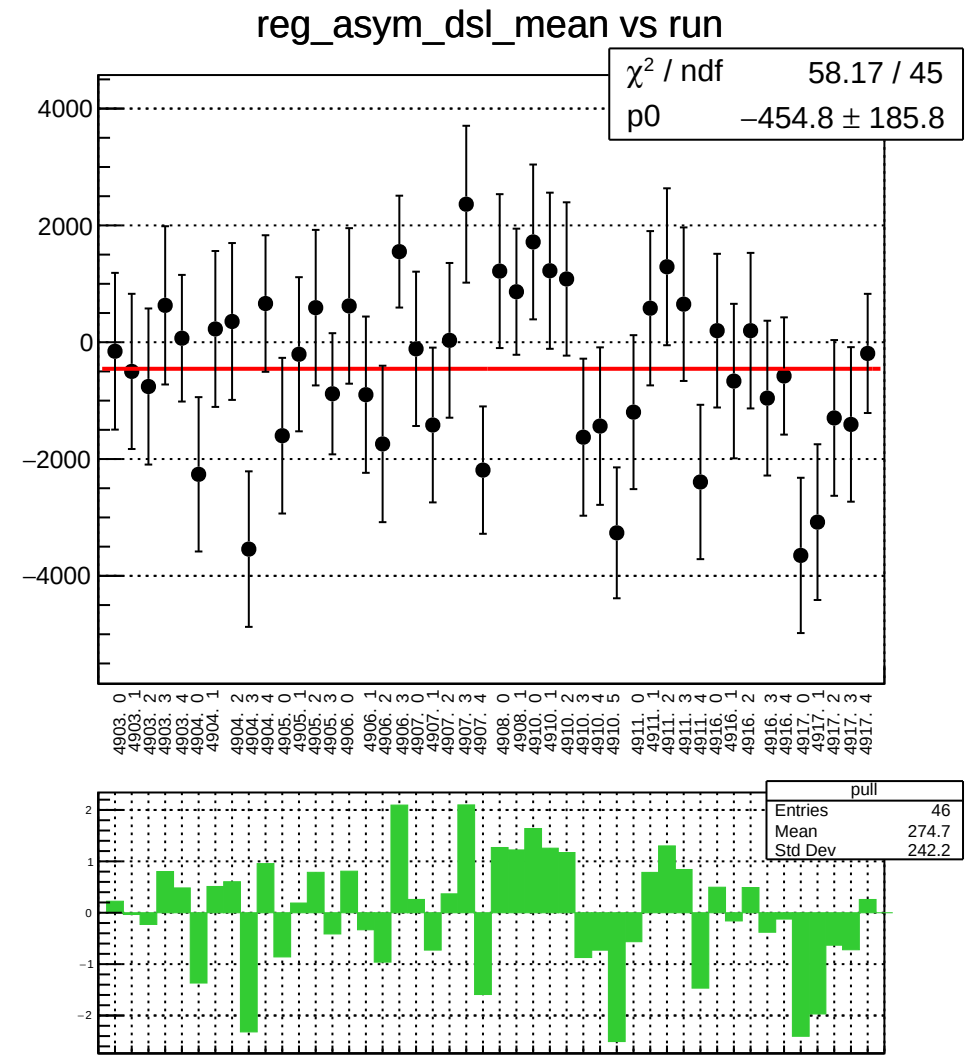

asym_usr_correction_mean vs run
χ² / ndf 41.79 / 45
p0 −578.7 ± 580
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 110.4
Std Dev 108.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.004038
Std Dev 0.9531
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

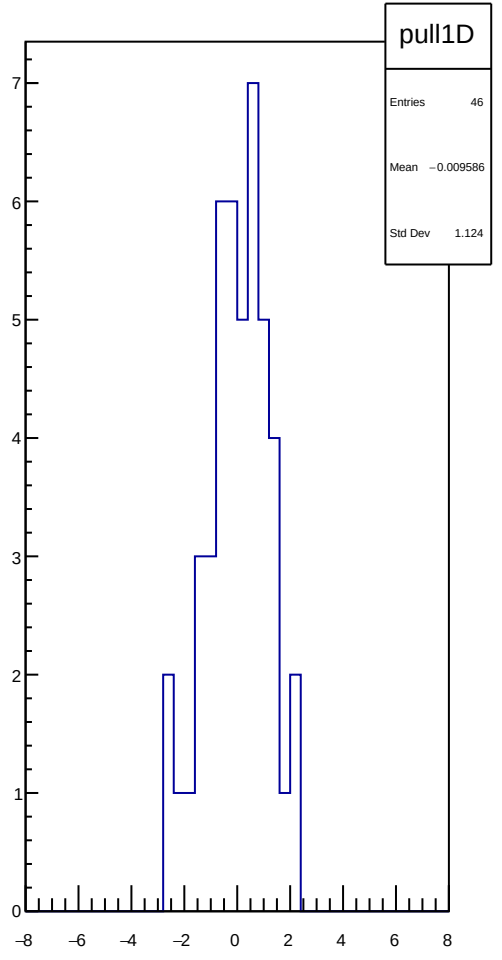

asym_usr_correction_rms vs run
χ² / ndf 621.4 / 45
p0 393.7 ± 0.4101
450
440
430
420
410
400
390
380
370
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

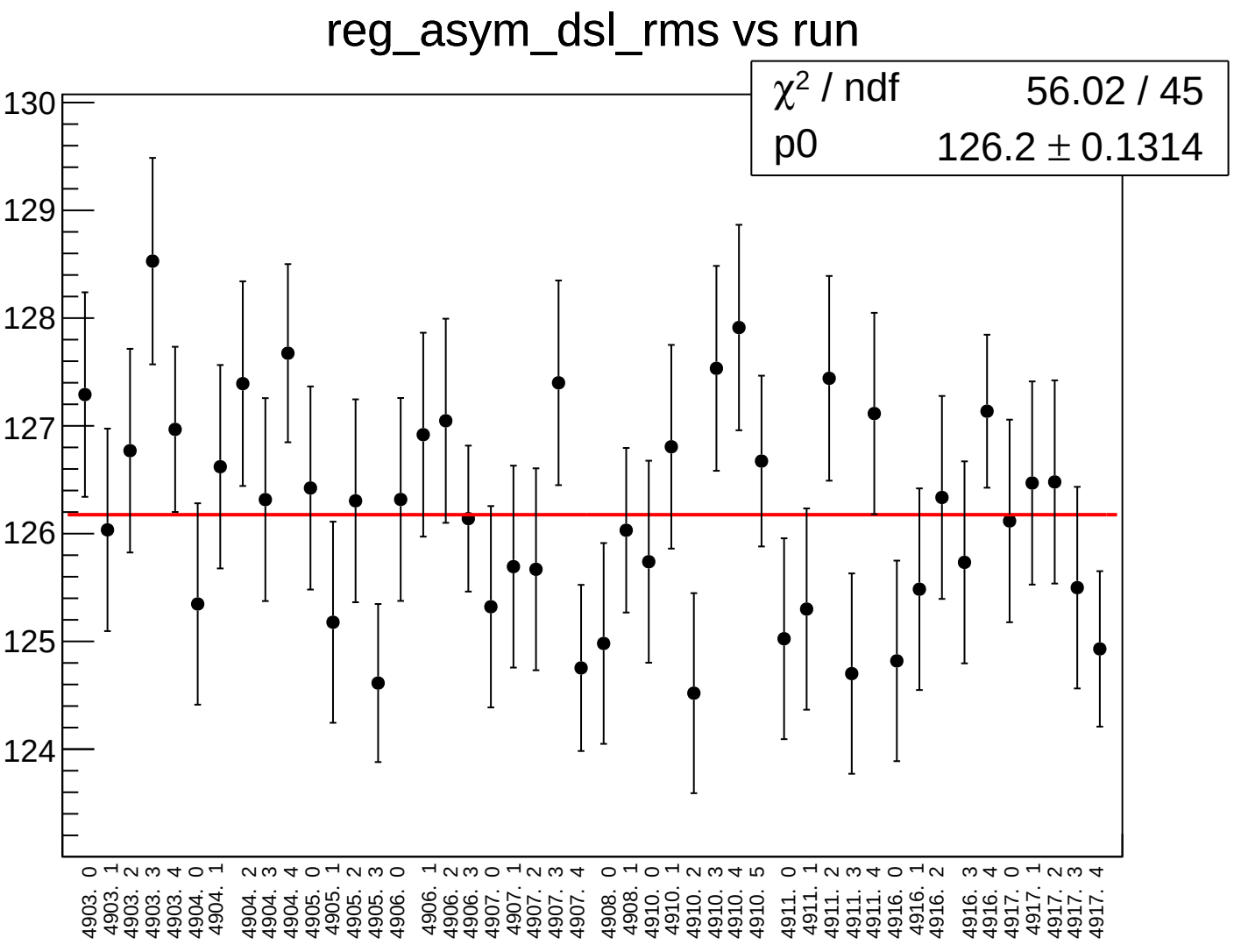

asym_usr_mean vs run
χ² / ndf 40.02 / 45
p0 449.4 ± 606.1
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 45.94
Std Dev 61.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

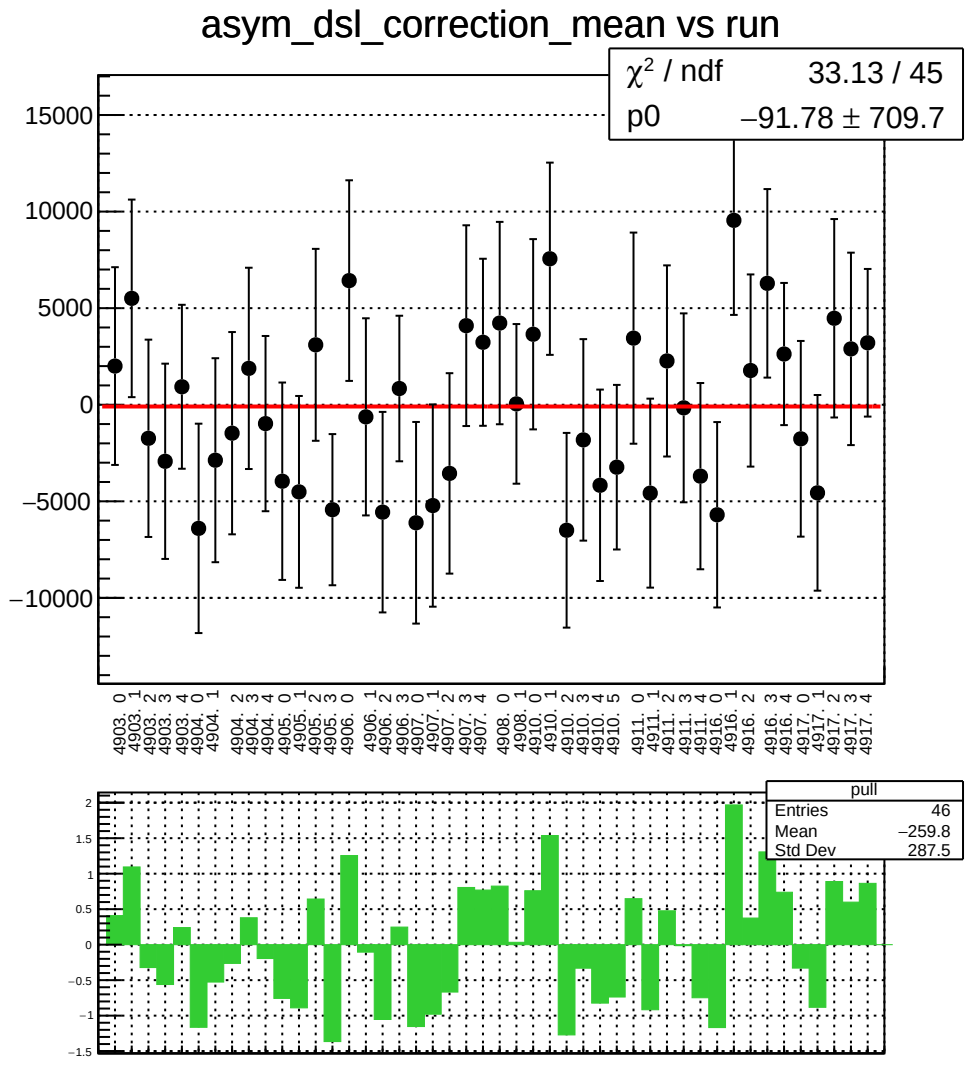

pull1D
Entries 46
Mean 0.006281
Std Dev 0.9328
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

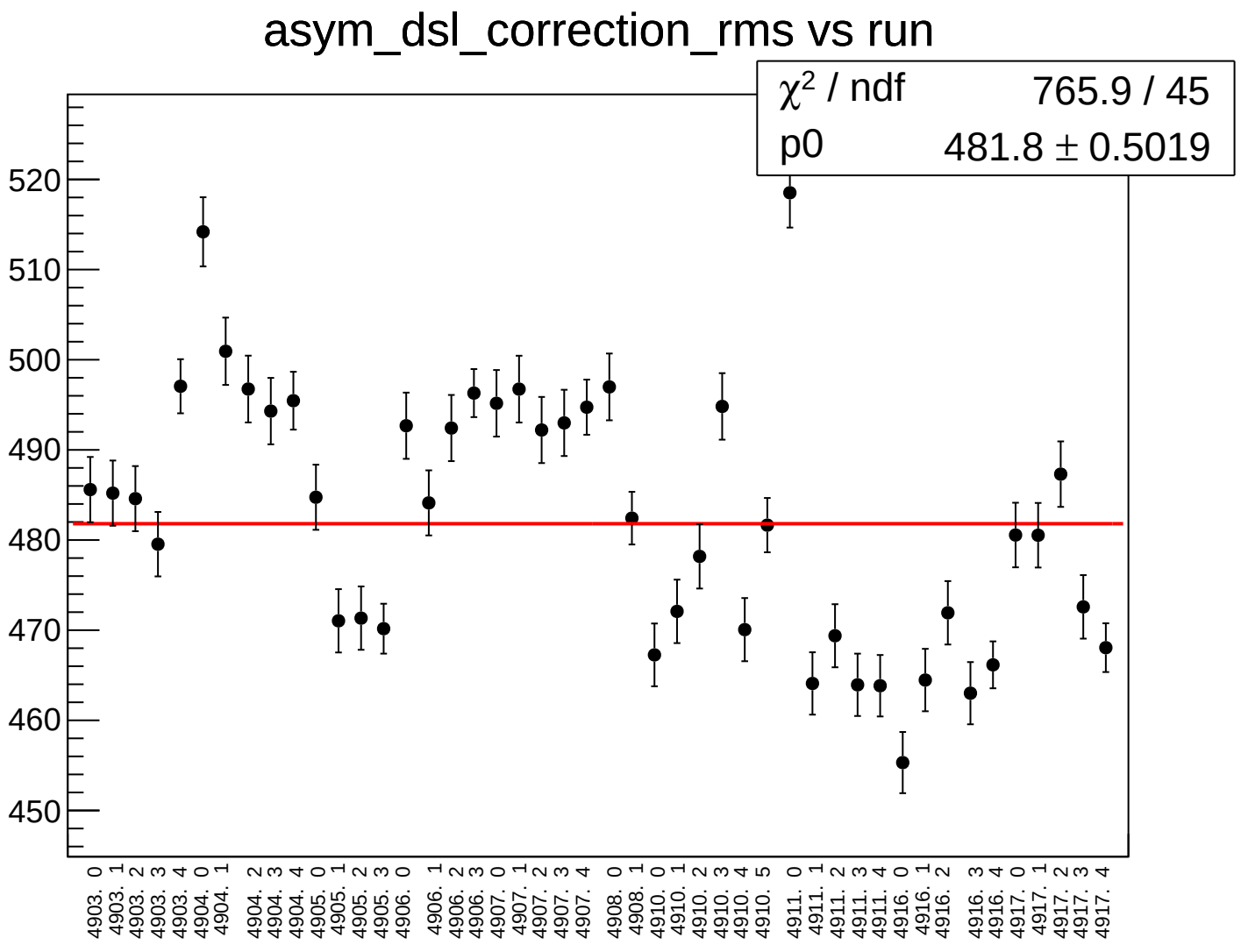

asym_usr_rms vs run
χ² / ndf 533.3 / 45
p0 411.5 ± 0.4286
460
450
440
430
420
410
400
390
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

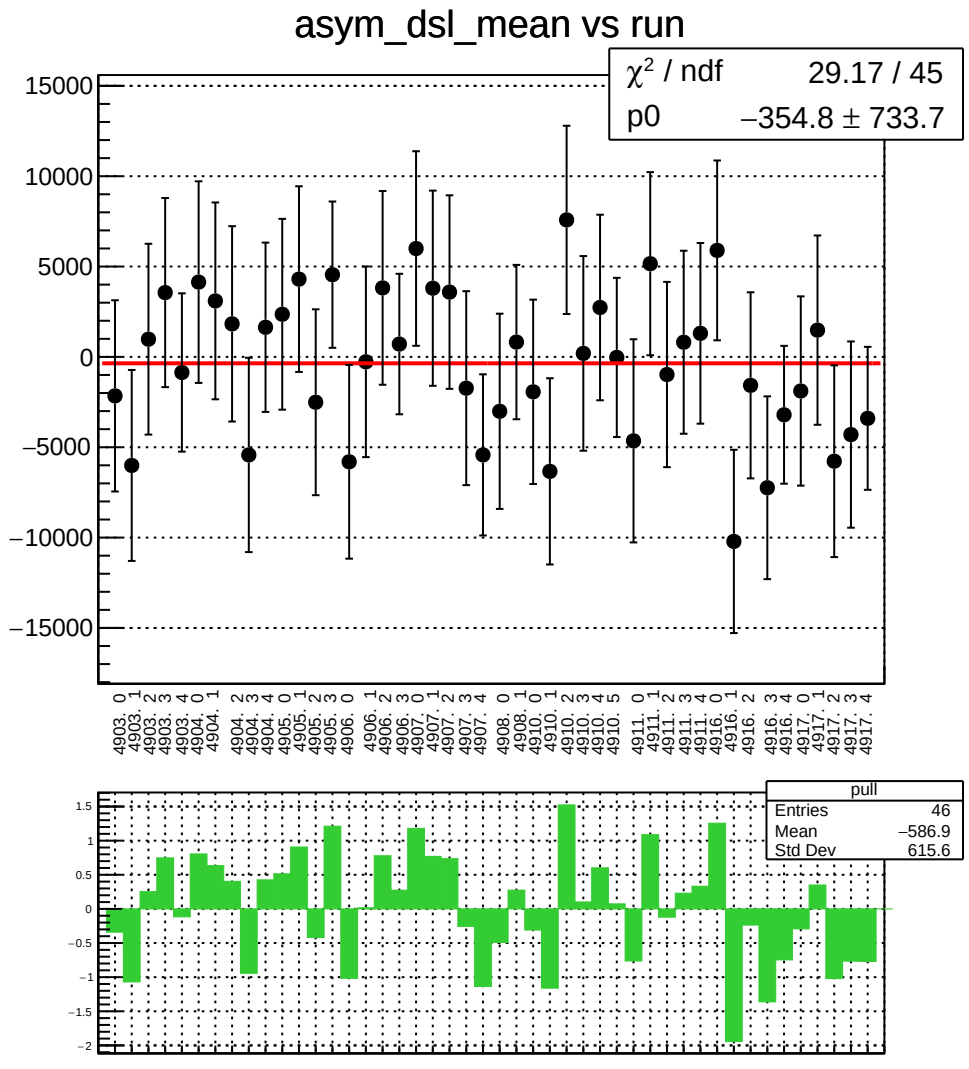

reg_asym_dsl_mean vs run
χ² / ndf 58.17 / 45
p0 −454.8 ± 185.8
4000
2000
0
−2000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 274.7
Std Dev 242.2
2
1
0
−1
−2

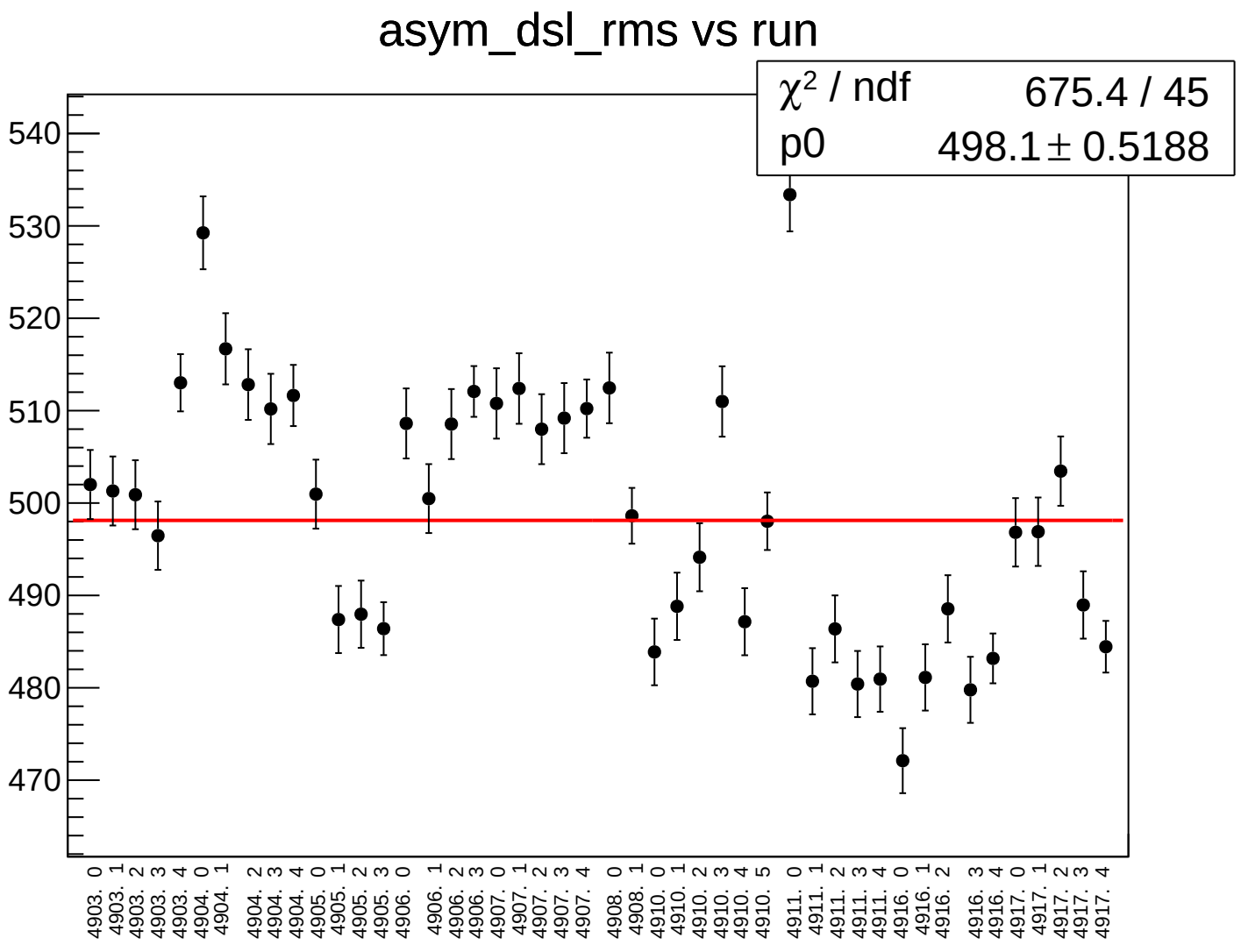

pull1D
Entries 46
Mean −0.009586
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 56.02 / 45
p0 126.2 ± 0.1314
130
129
128
127
126
125
124
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_dsl_correction_mean vs run
χ² / ndf 33.13 / 45
p0 −91.78 ± 709.7
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −259.8
Std Dev 287.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.0079
Std Dev 0.8486
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 765.9 / 45
p0 481.8 ± 0.5019
520
510
500
490
480
470
460
450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_dsl_mean vs run
χ² / ndf 29.17 / 45
p0 −354.8 ± 733.7
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −586.9
Std Dev 615.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004559
Std Dev 0.7963
9
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 675.4 / 45
p0 498.1 ± 0.5188
540
530
520
510
500
490
480
470
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
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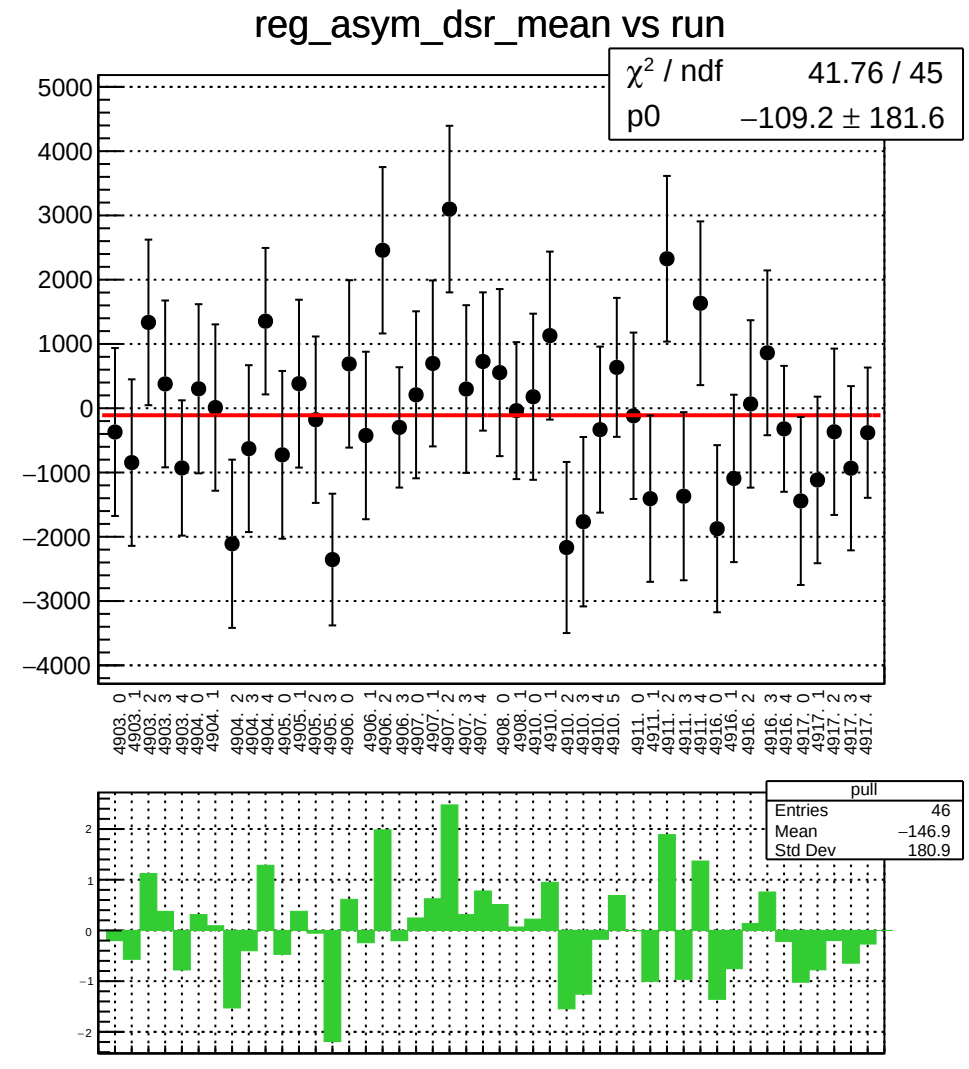
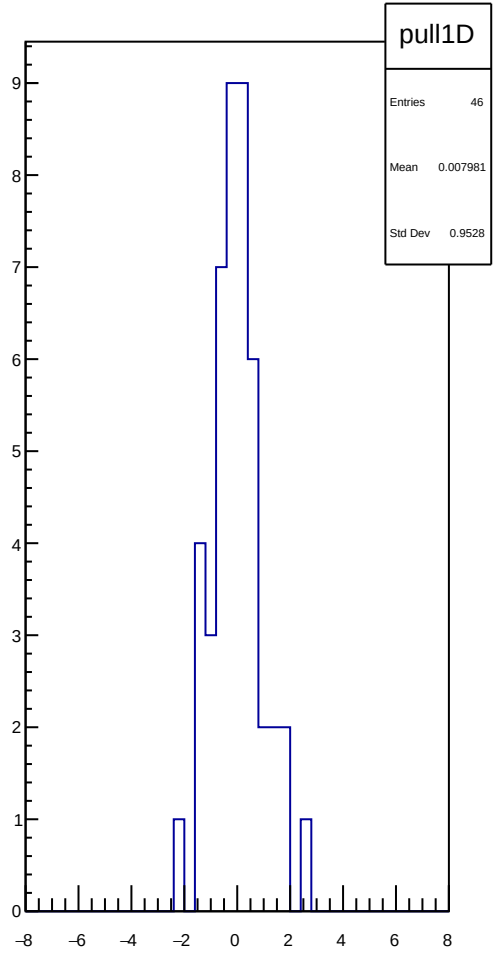
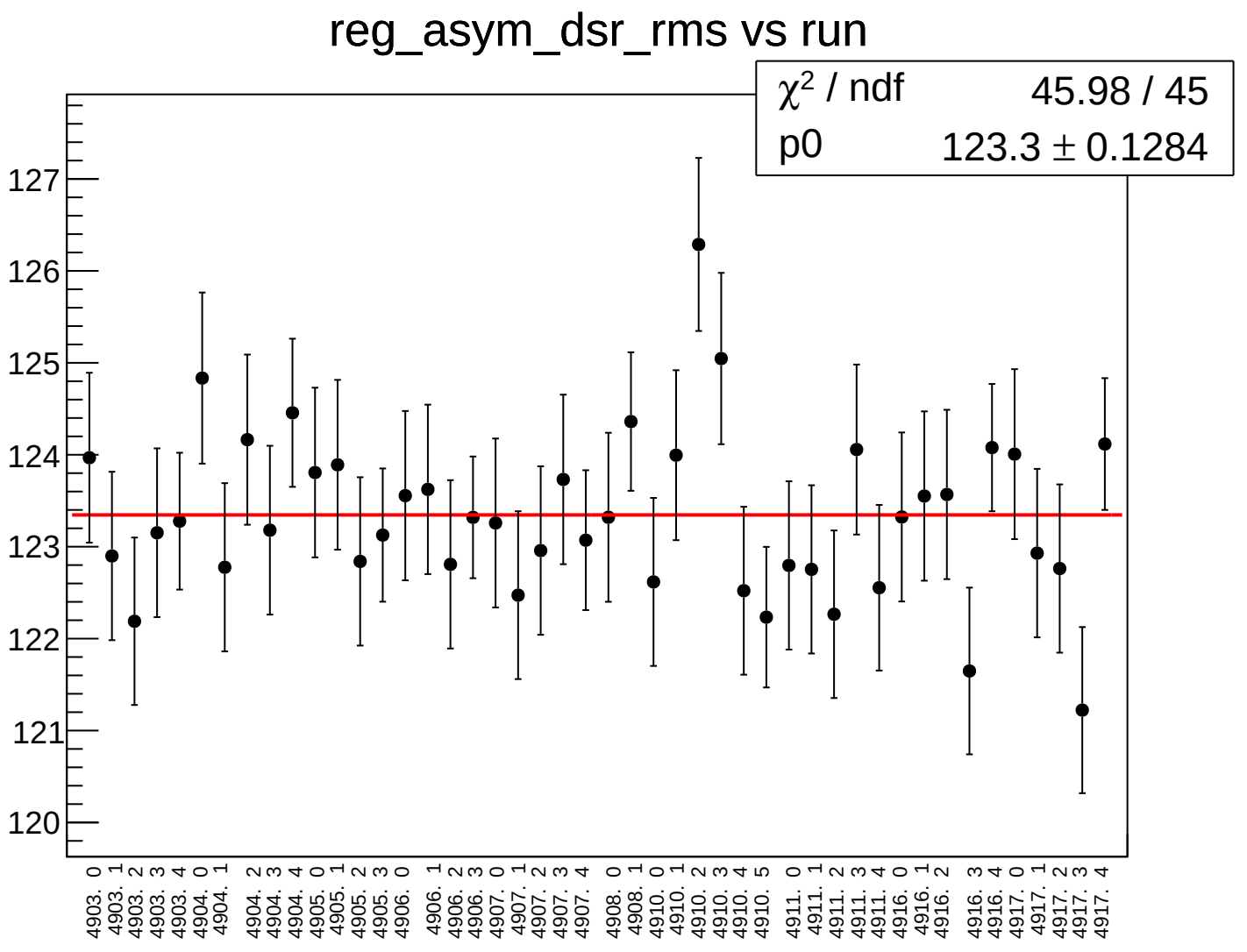
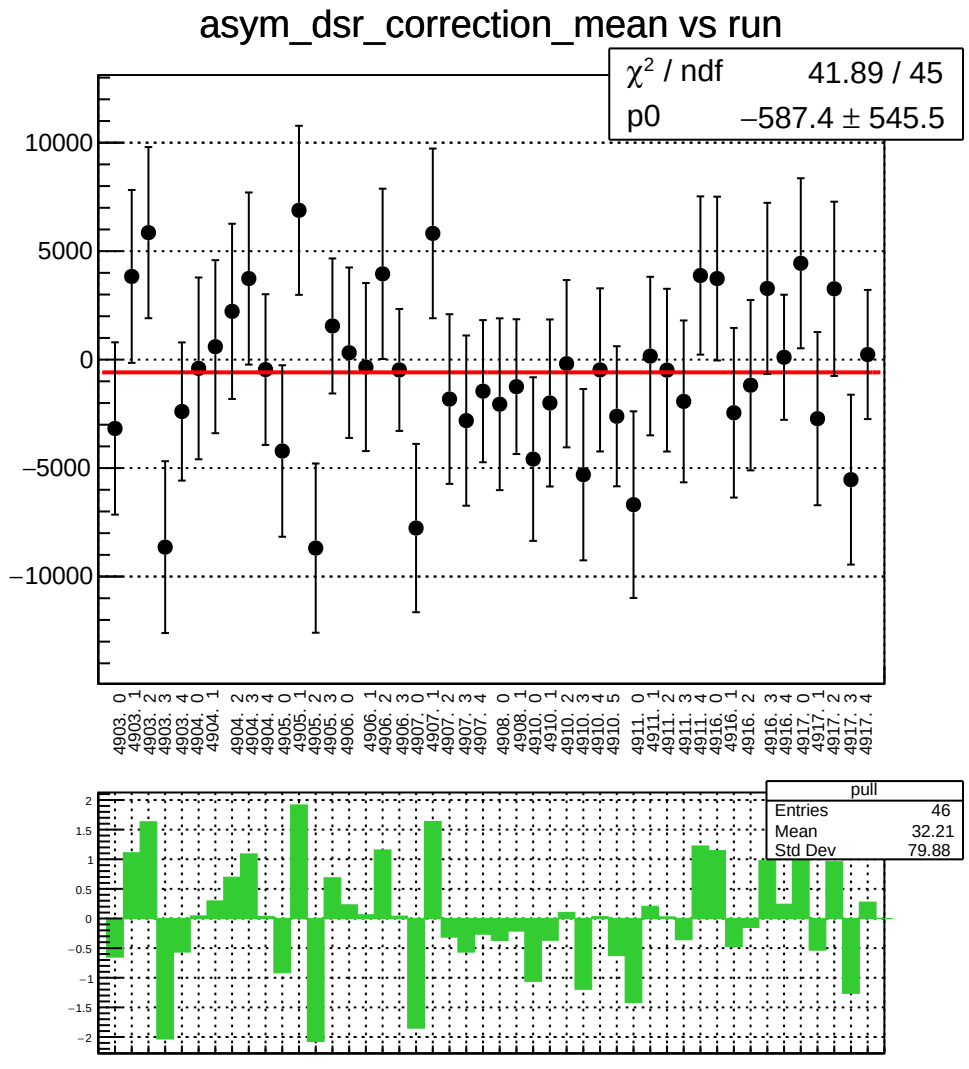
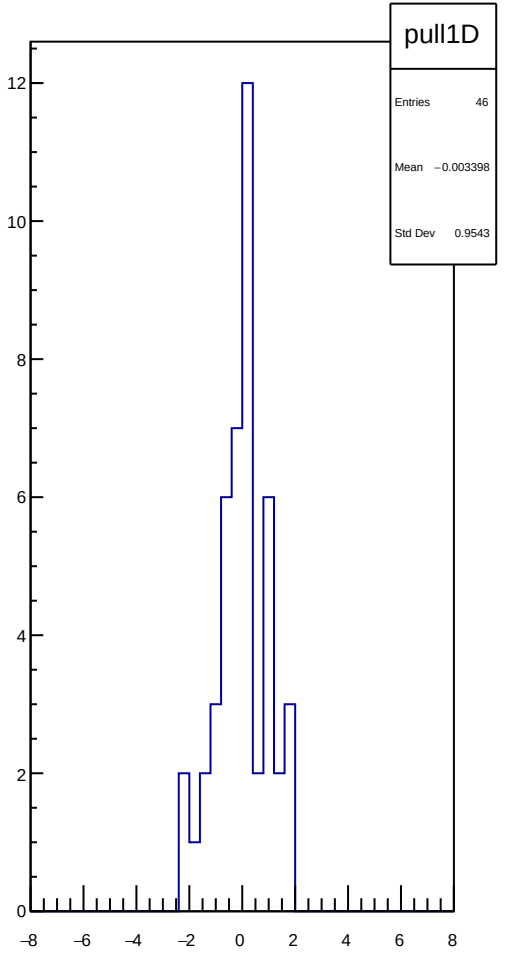
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

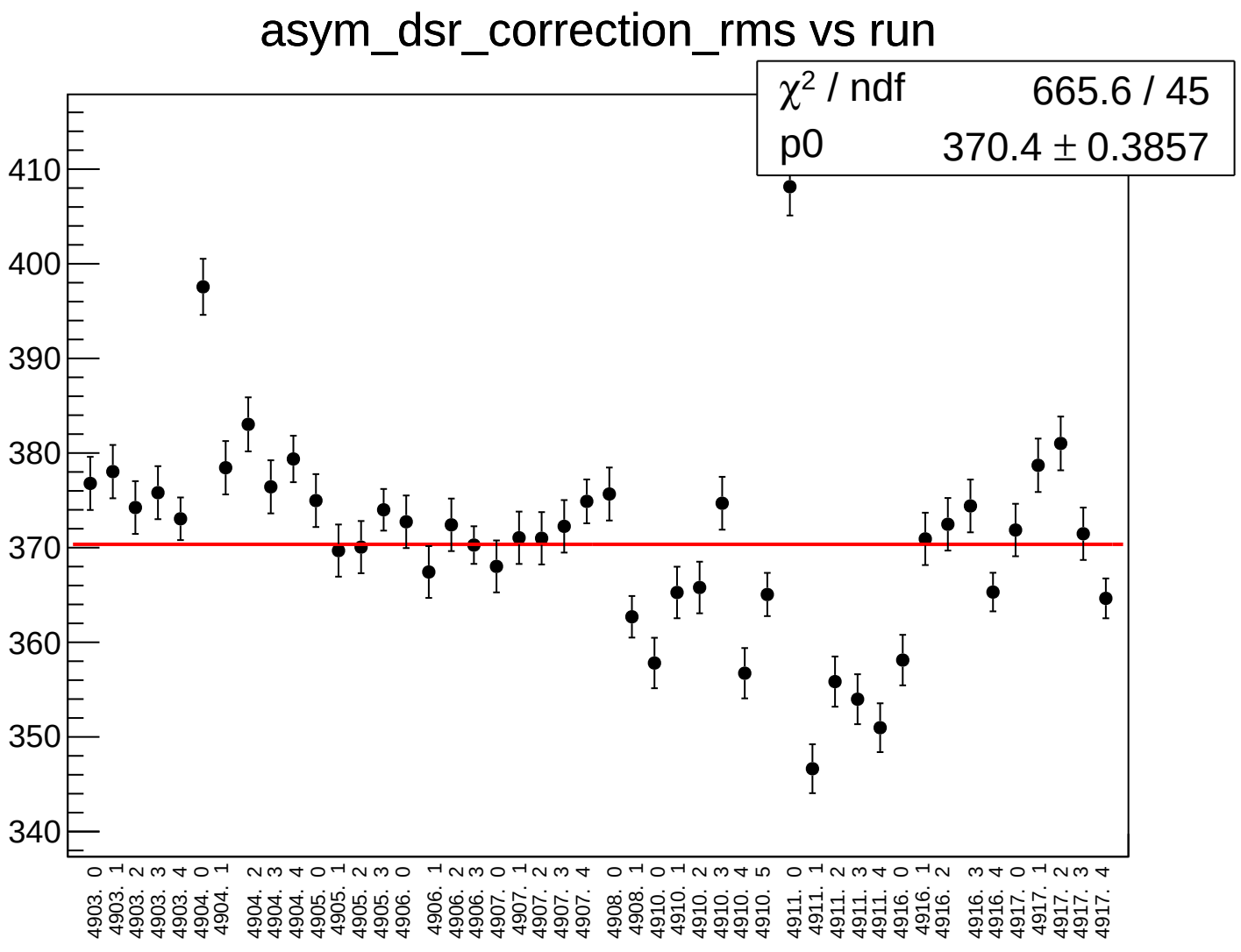

reg_asym_dsr_mean vs run
χ² / ndf 41.76 / 45
p0 −109.2 ± 181.6
pull
Entries 46
Mean −146.9
Std Dev 180.9

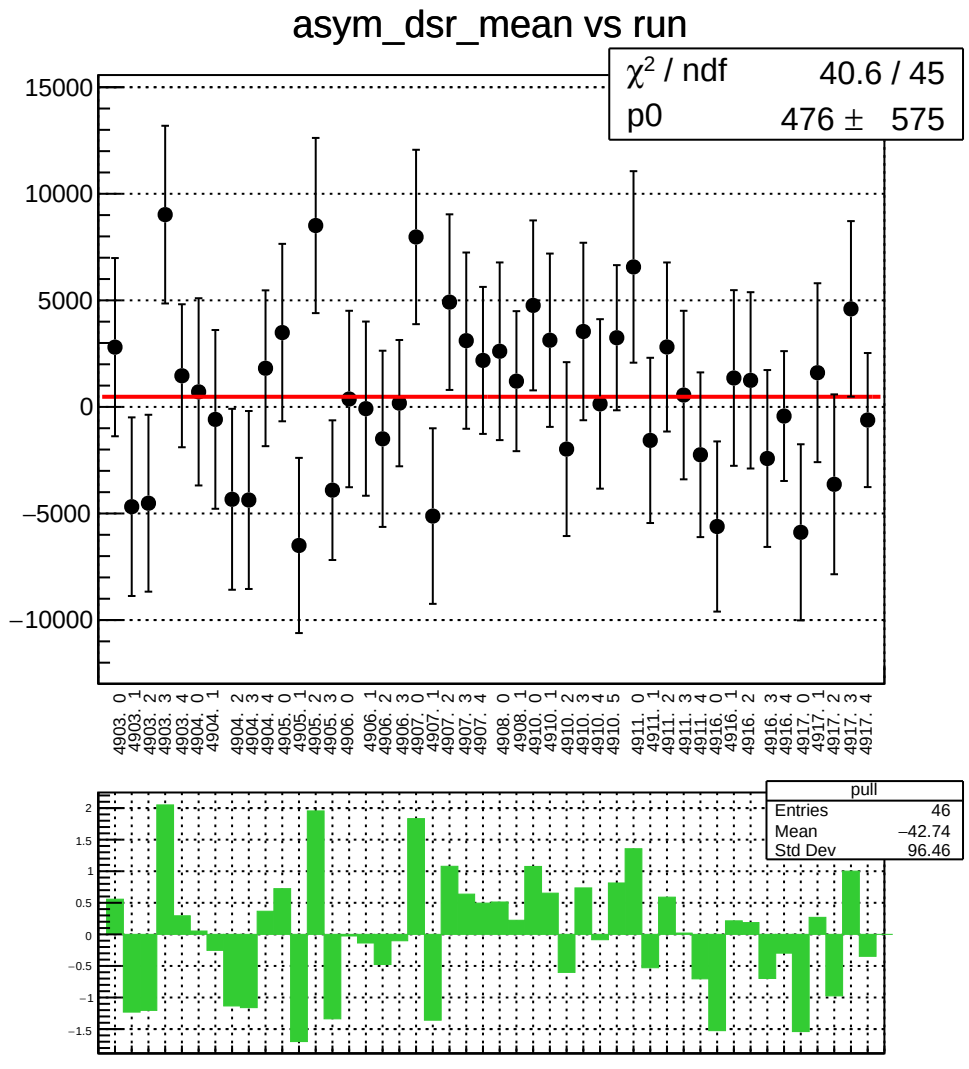

pull1D
Entries 46
Mean 0.007981
Std Dev 0.9528

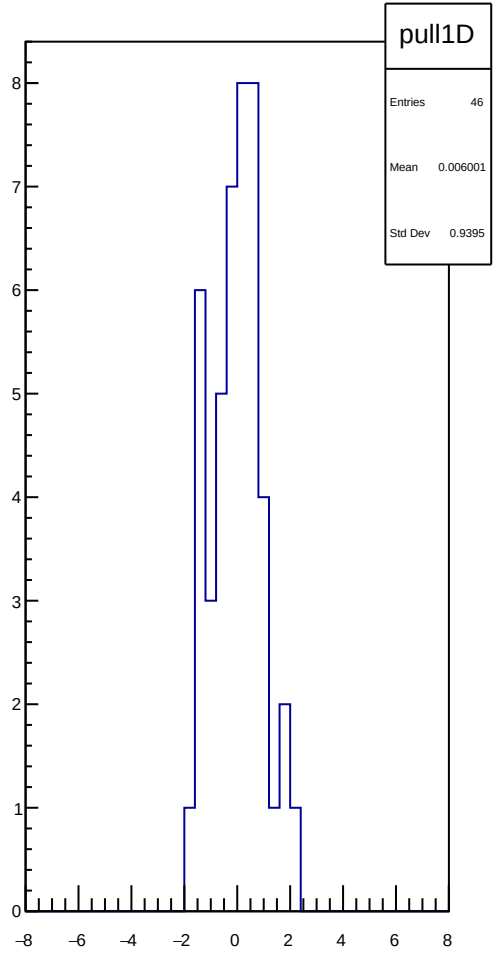

reg_asym_dsr_rms vs run
χ² / ndf 45.98 / 45
p0 123.3 ± 0.1284
127
126
125
124
123
122
121
120
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

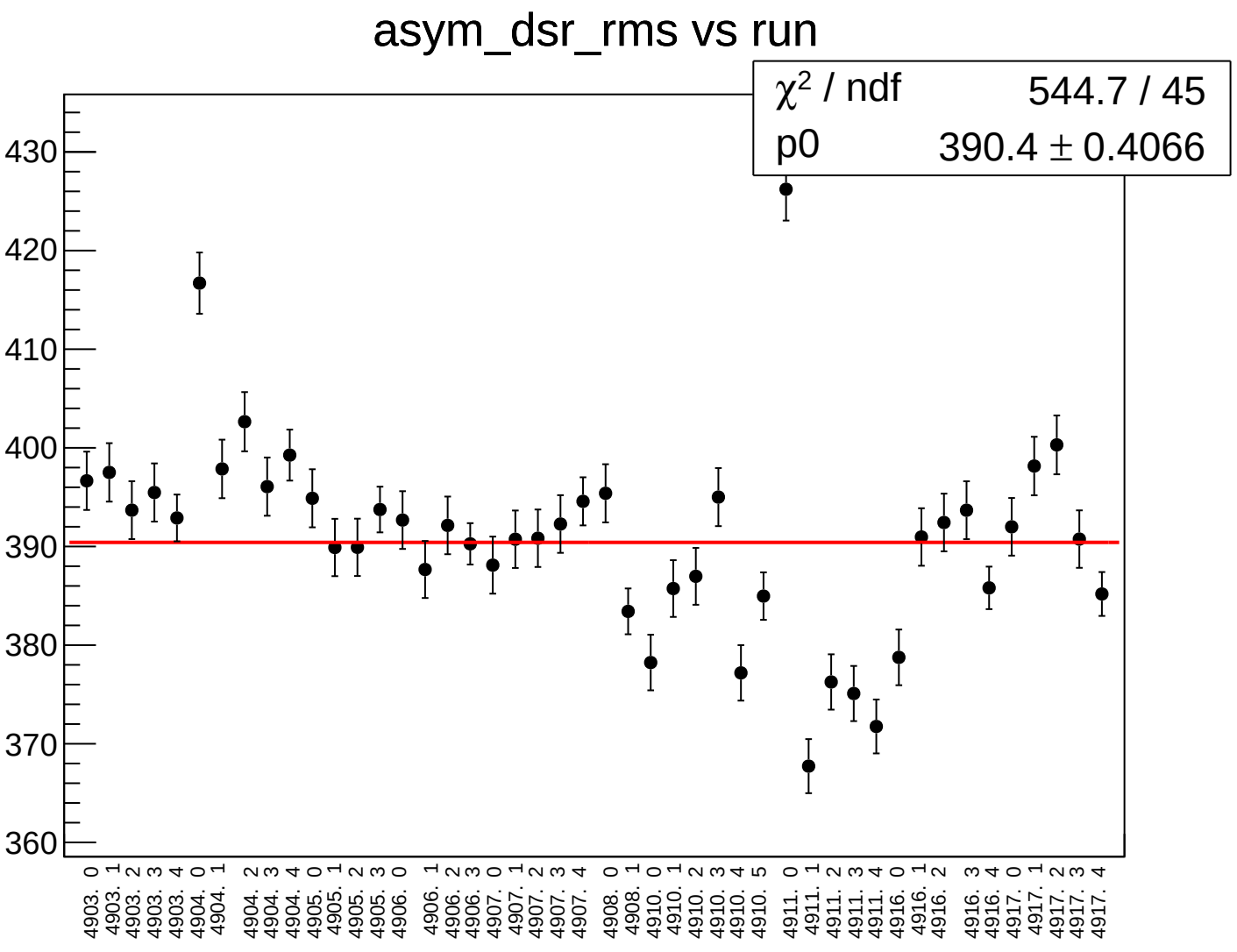

asym_dsr_correction_mean vs run
χ² / ndf 41.89 / 45
p0 −587.4 ± 545.5
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 32.21
Std Dev 79.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

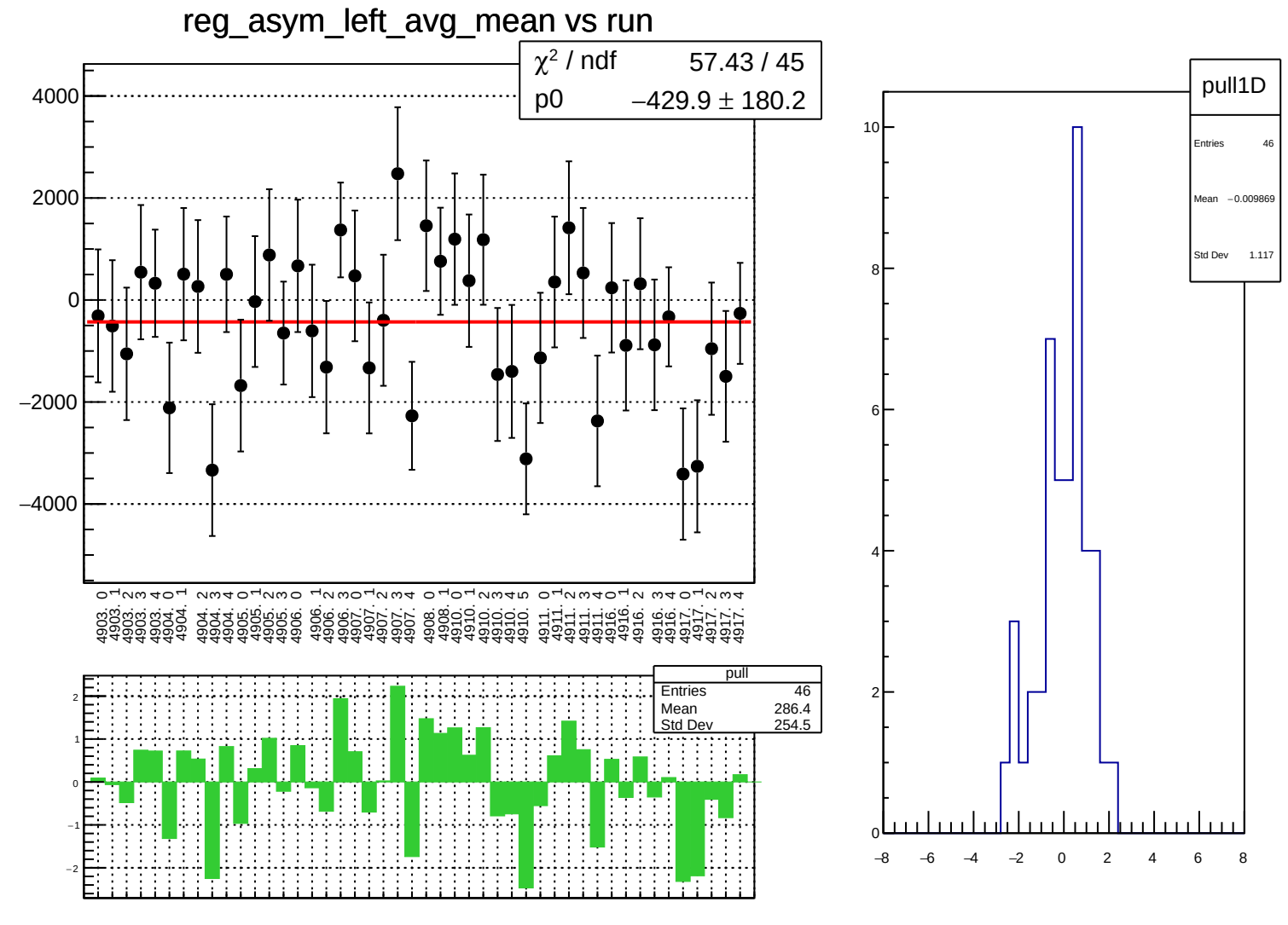

pull1D
Entries 46
Mean −0.003398
Std Dev 0.9543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

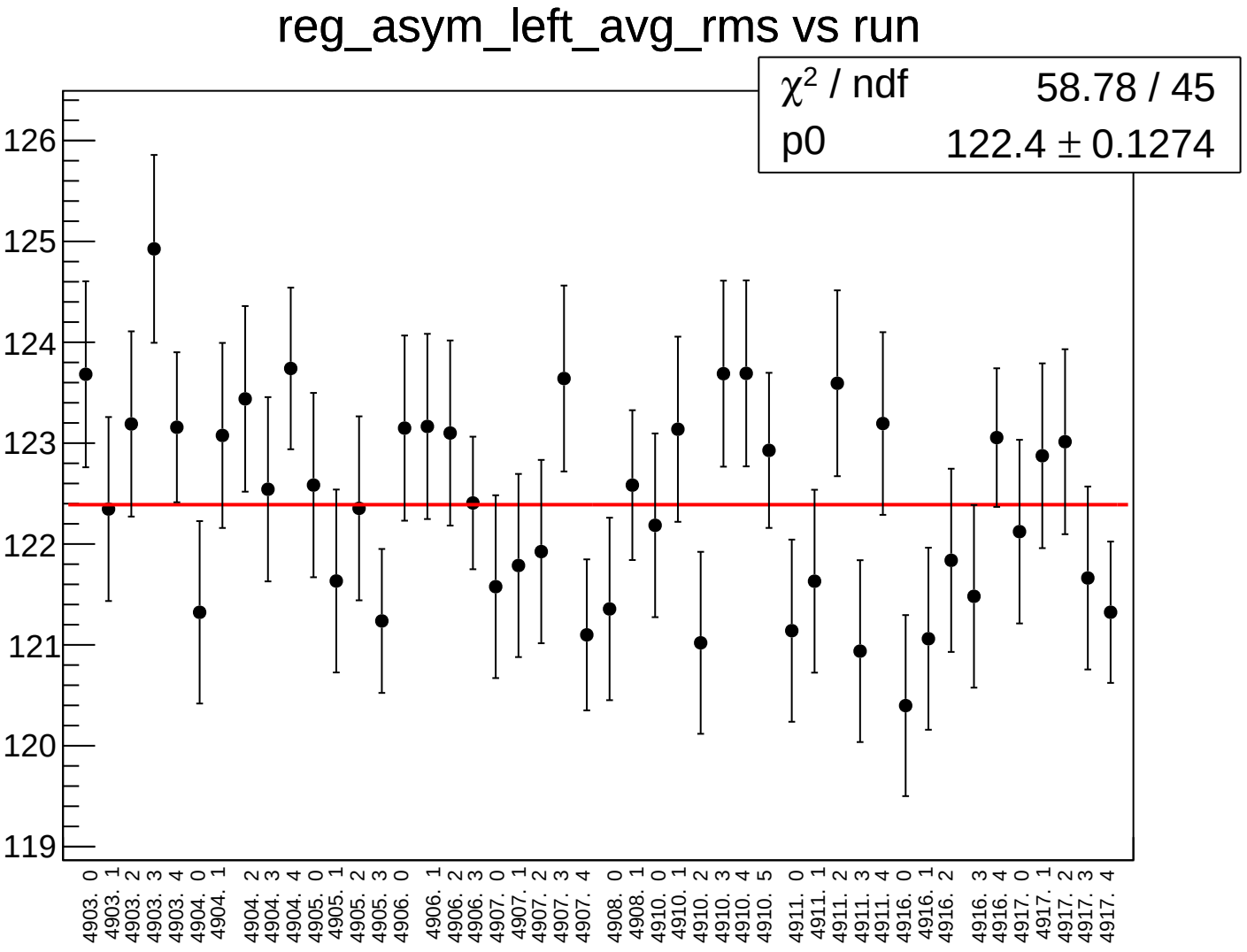

asym_dsr_correction_rms vs run
χ² / ndf 665.6 / 45
p0 370.4 ± 0.3857
410
400
390
380
370
360
350
340
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

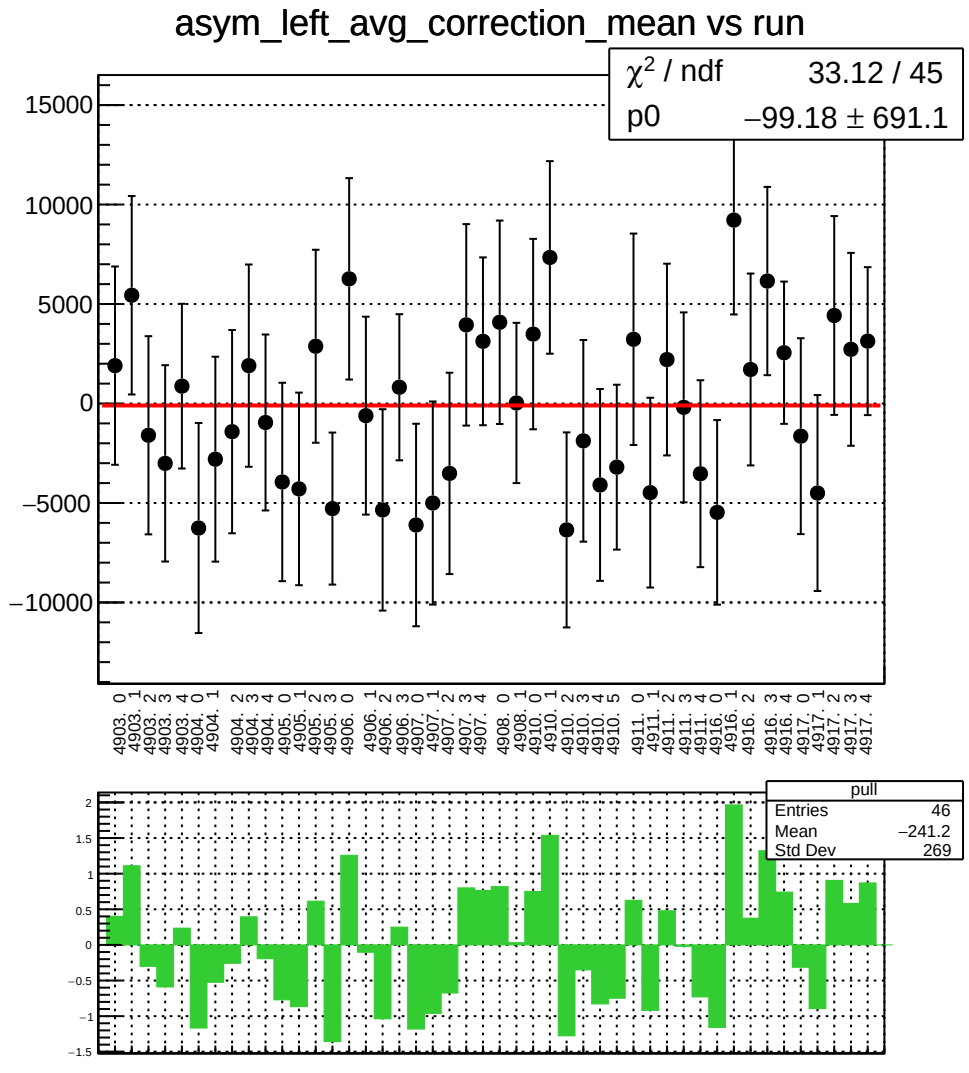

asym_dsr_mean vs run
χ² / ndf 40.6 / 45
p0 476 ± 575
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −42.74
Std Dev 96.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

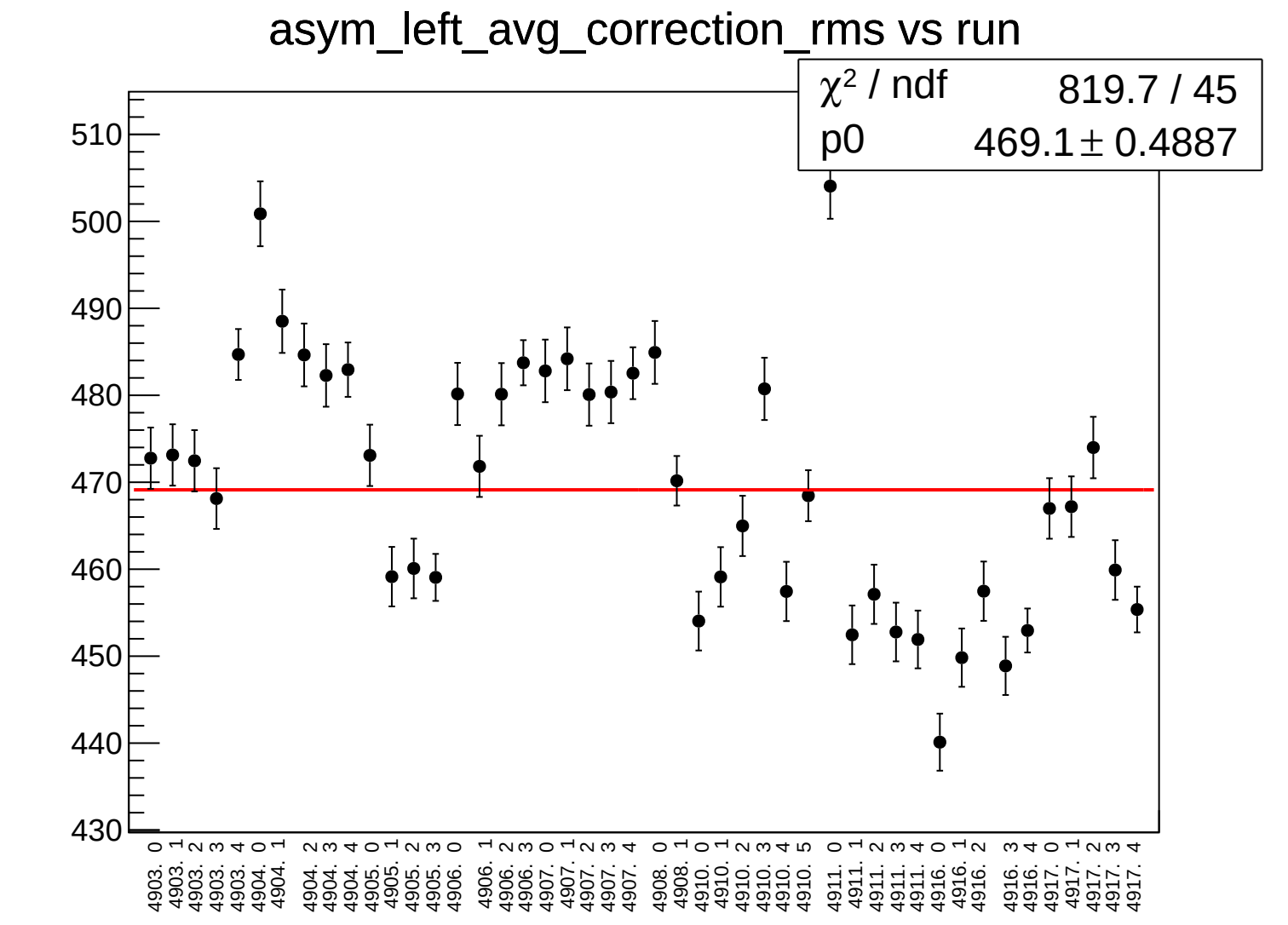

pull1D
Entries 46
Mean 0.006001
Std Dev 0.9395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

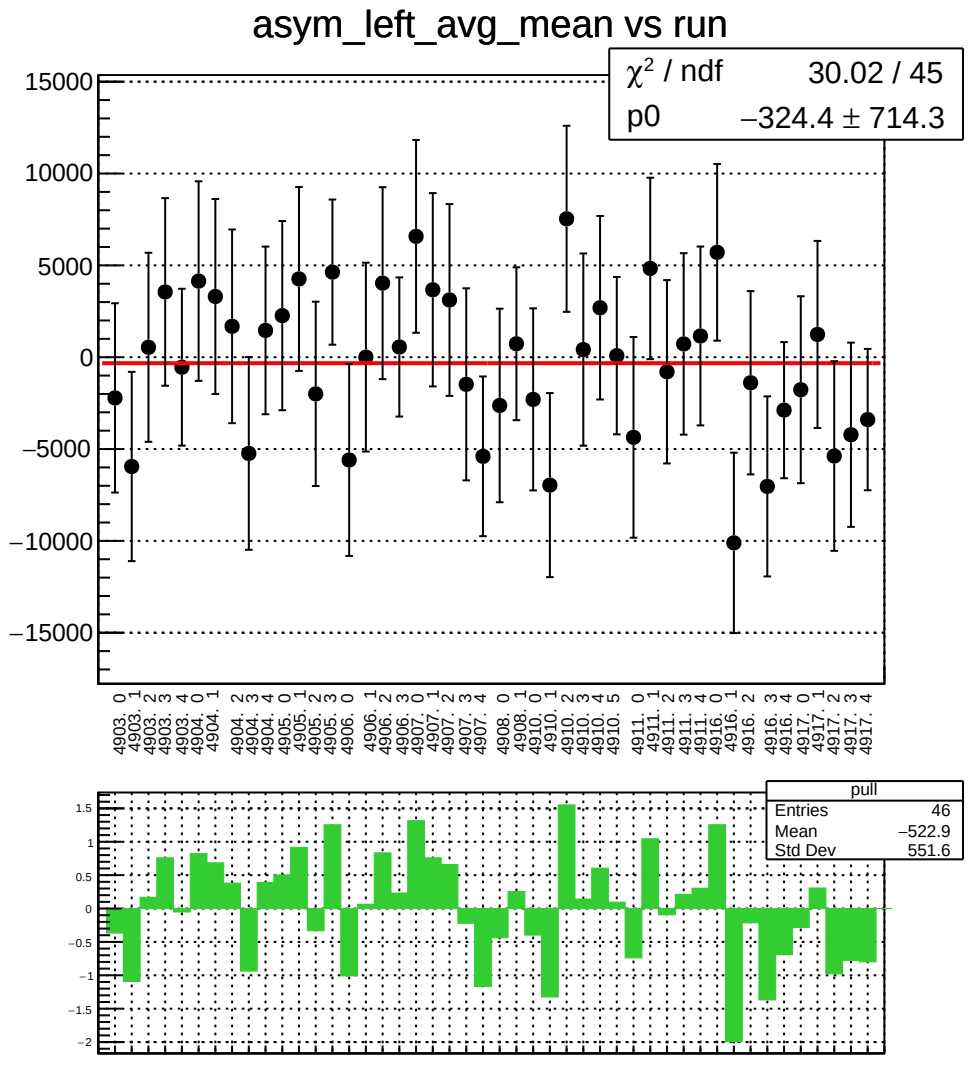

asym_dsr_rms vs run
χ² / ndf 544.7 / 45
p0 390.4 ± 0.4066
430
420
410
400
390
380
370
360
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

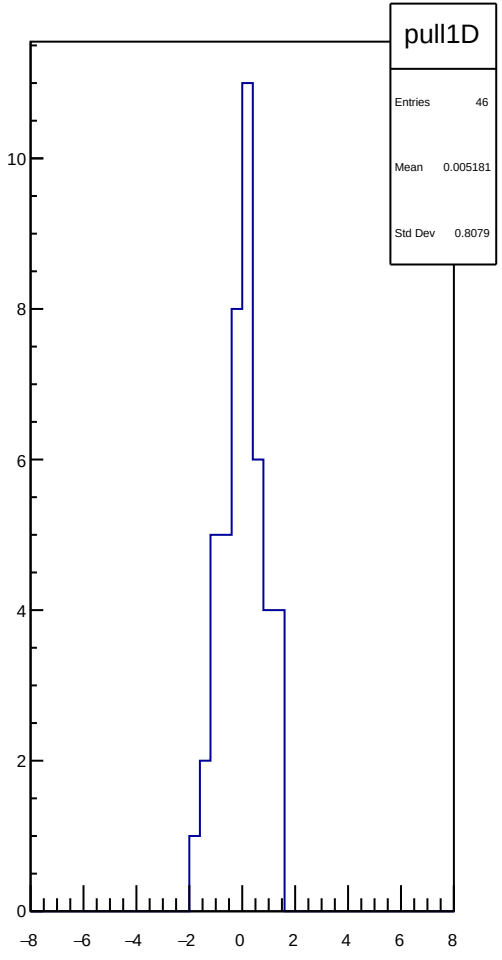

reg_asym_left_avg_mean vs run
χ² / ndf 57.43 / 45
p0 −429.9 ± 180.2
4000
2000
0
−2000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 286.4
Std Dev 254.5
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009869
Std Dev 1.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

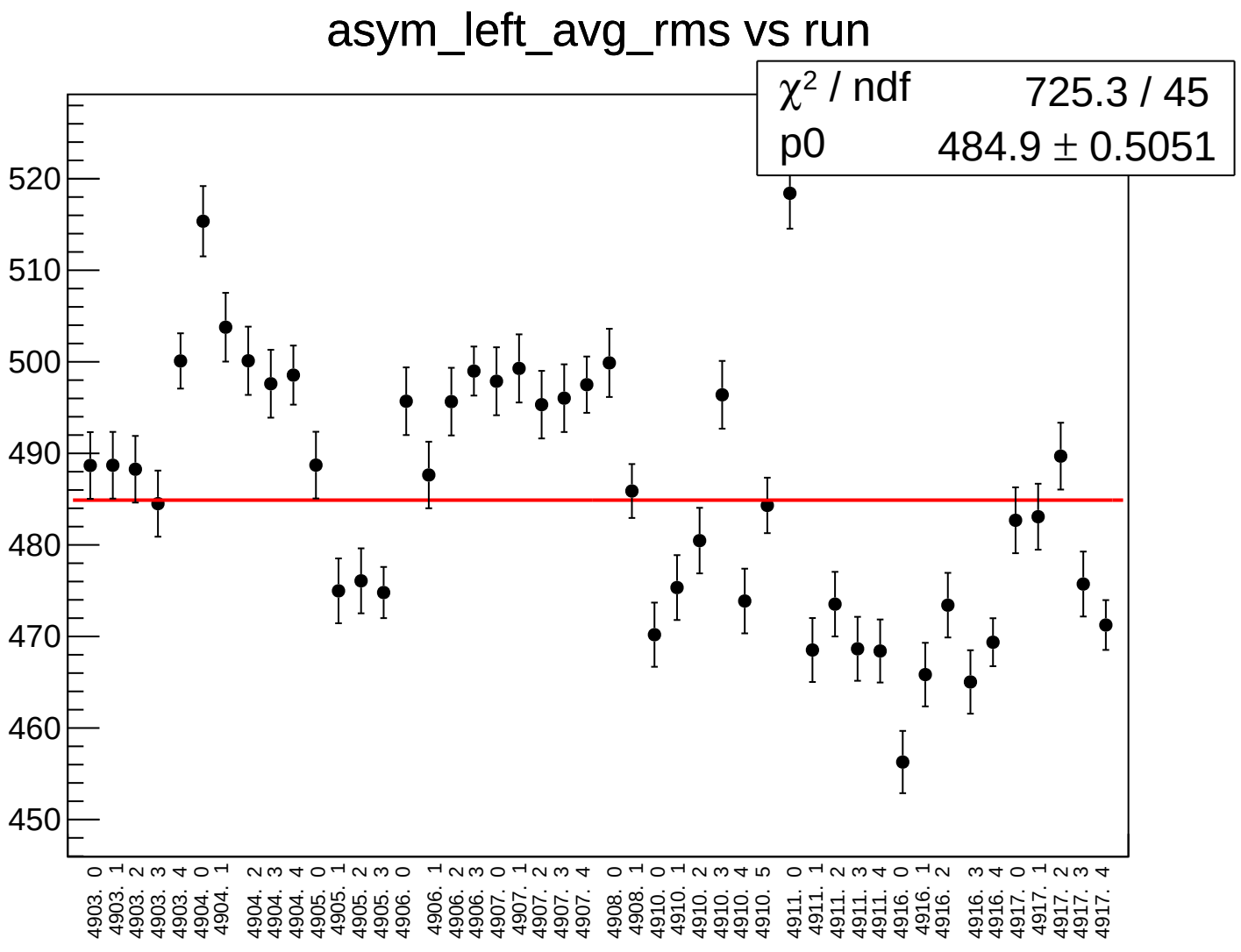

reg_asym_left_avg_rms vs run
χ² / ndf 58.78 / 45
p0 122.4 ± 0.1274
126
125
124
123
122
121
120
119
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

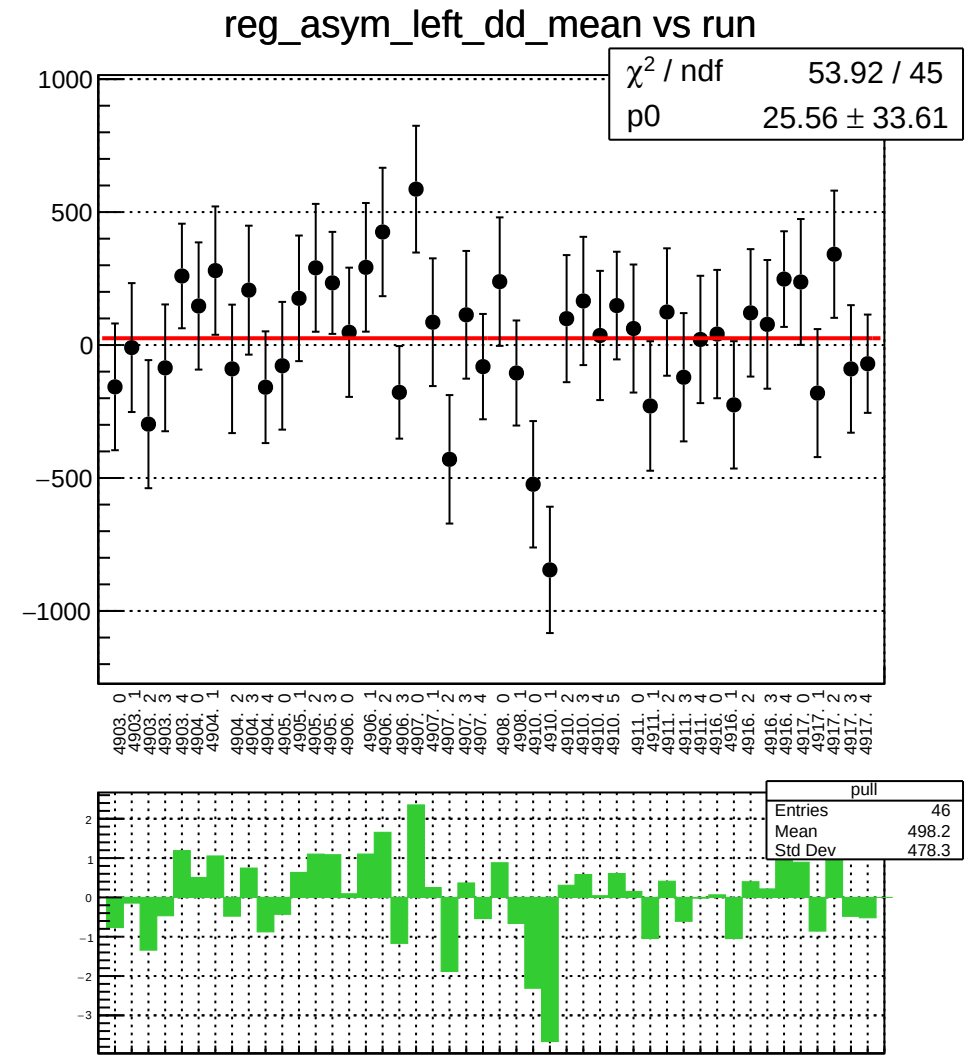

asym_left_avg_correction_mean vs run
χ² / ndf 33.12 / 45
p0 −99.18 ± 691.1
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −241.2
Std Dev 269
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.00846
Std Dev 0.8484
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

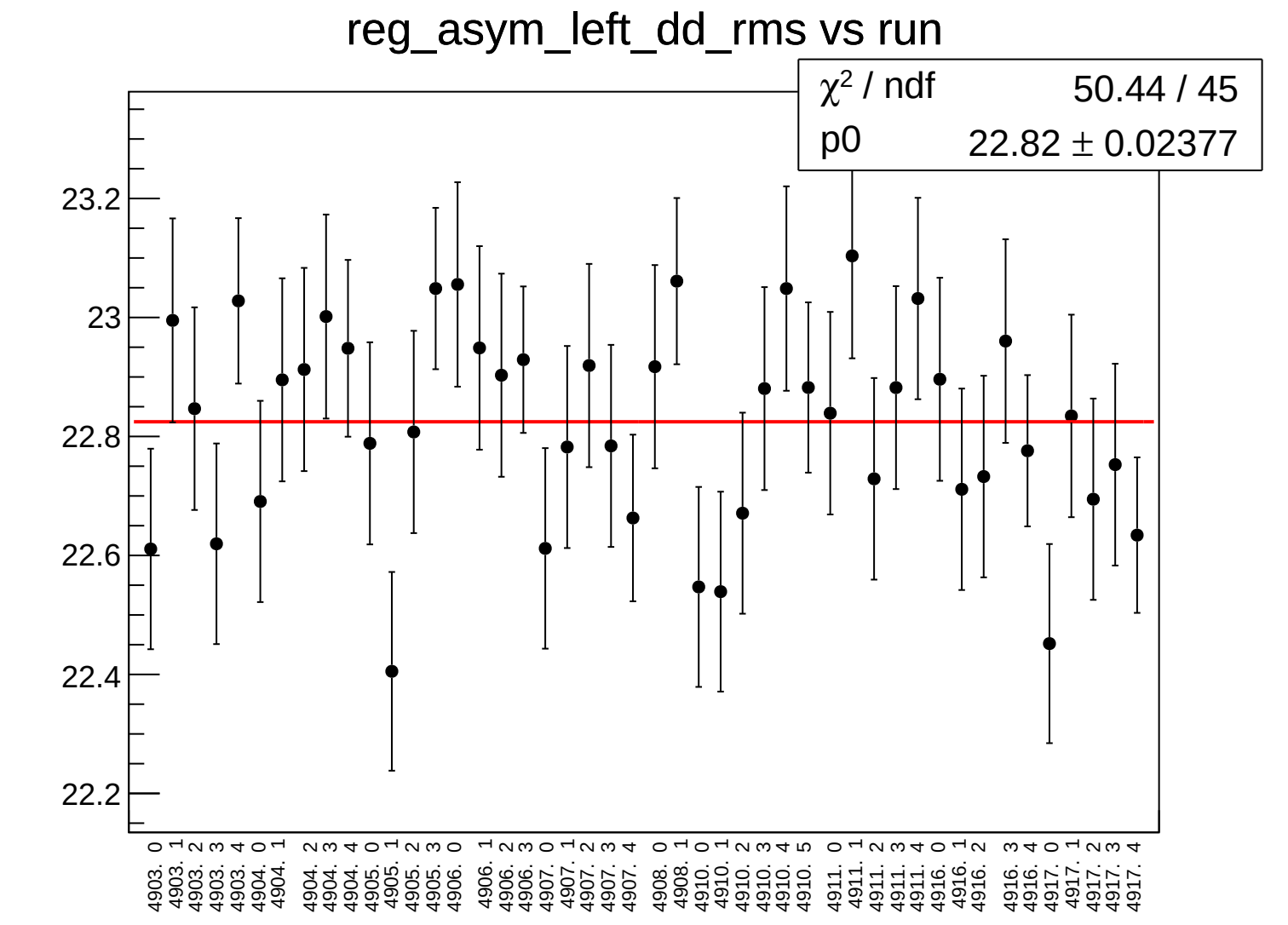

asym_left_avg_correction_rms vs run
χ² / ndf 819.7 / 45
p0 469.1 ± 0.4887
510
500
490
480
470
460
450
440
430
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

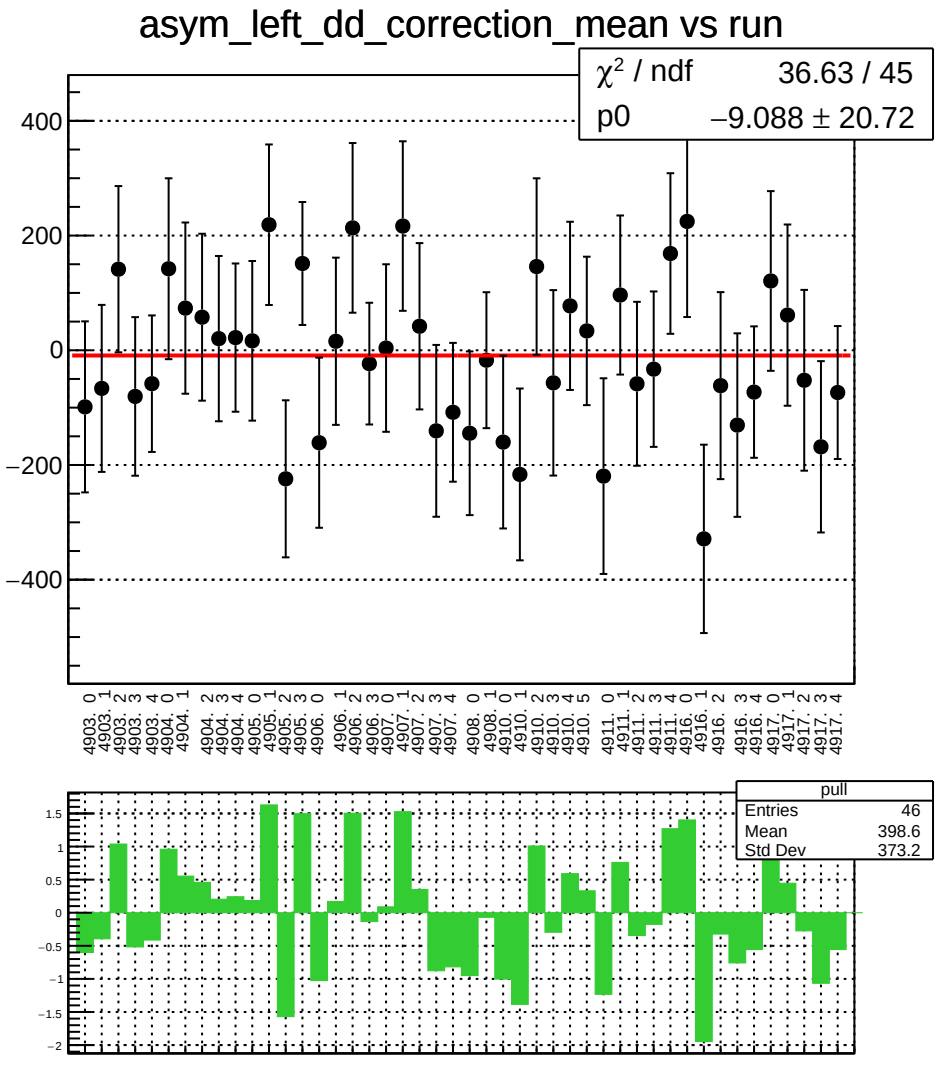

asym_left_avg_mean vs run
χ² / ndf 30.02 / 45
p0 −324.4 ± 714.3
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −522.9
Std Dev 551.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

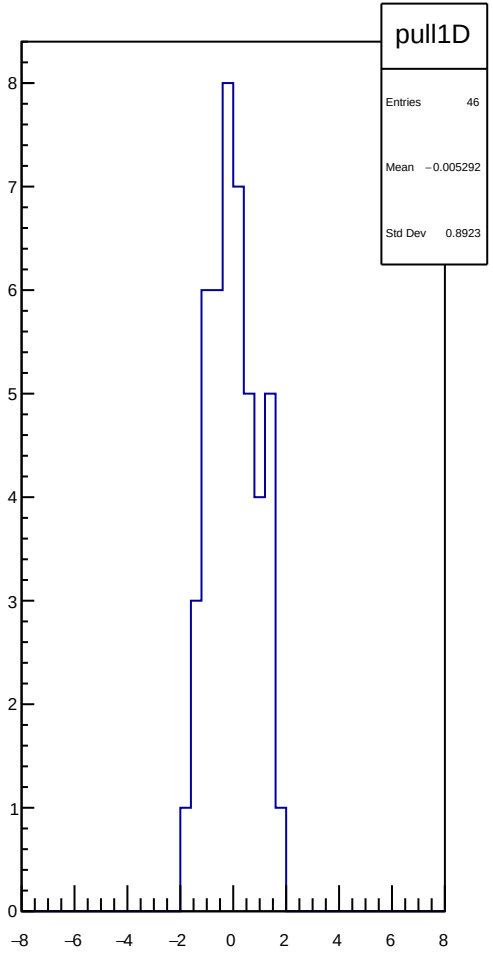

pull1D
Entries 46
Mean 0.005181
Std Dev 0.8079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

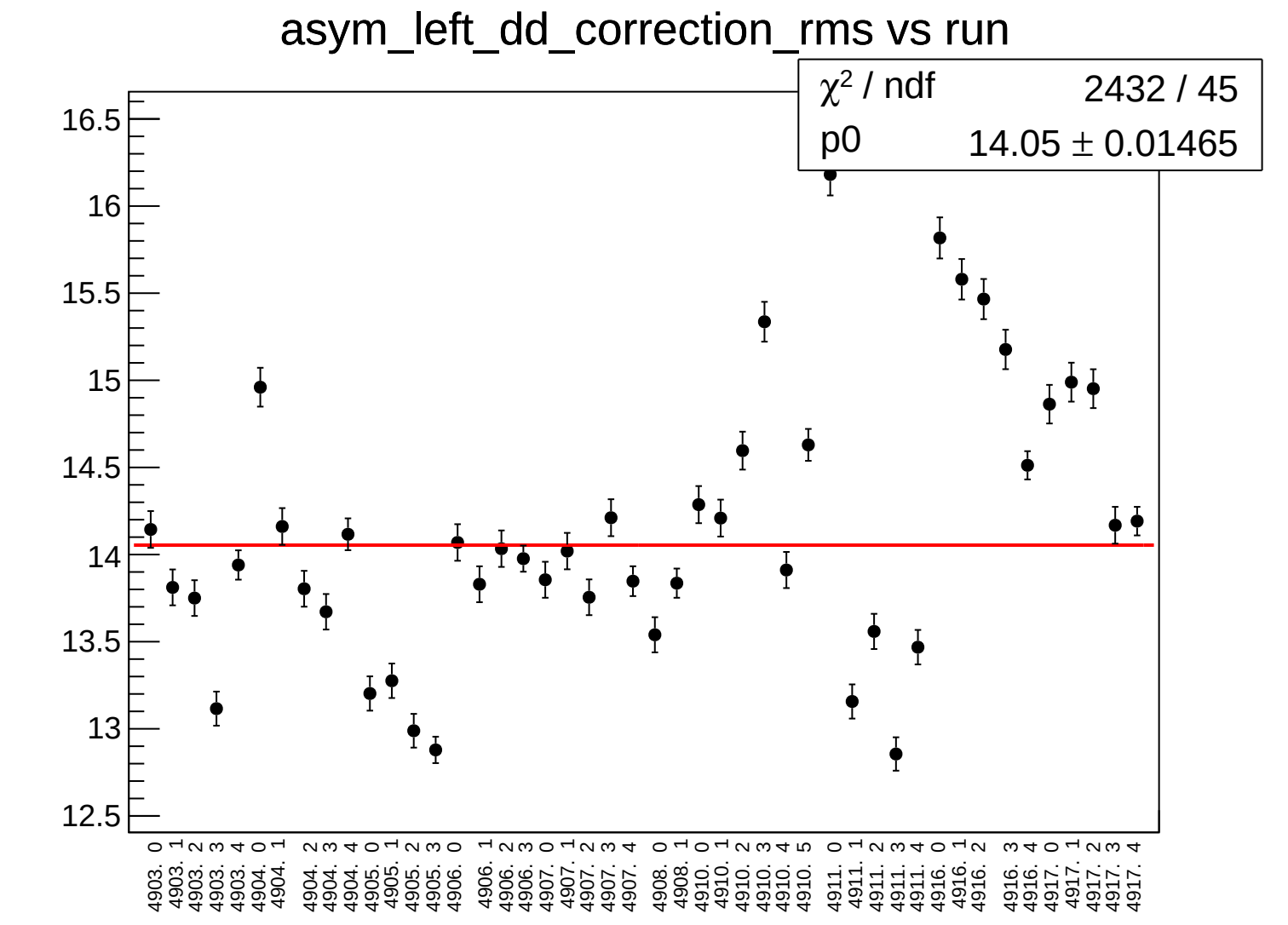

asym_left_avg_rms vs run
χ² / ndf 725.3 / 45
p0 484.9 ± 0.5051
520
510
500
490
480
470
460
450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

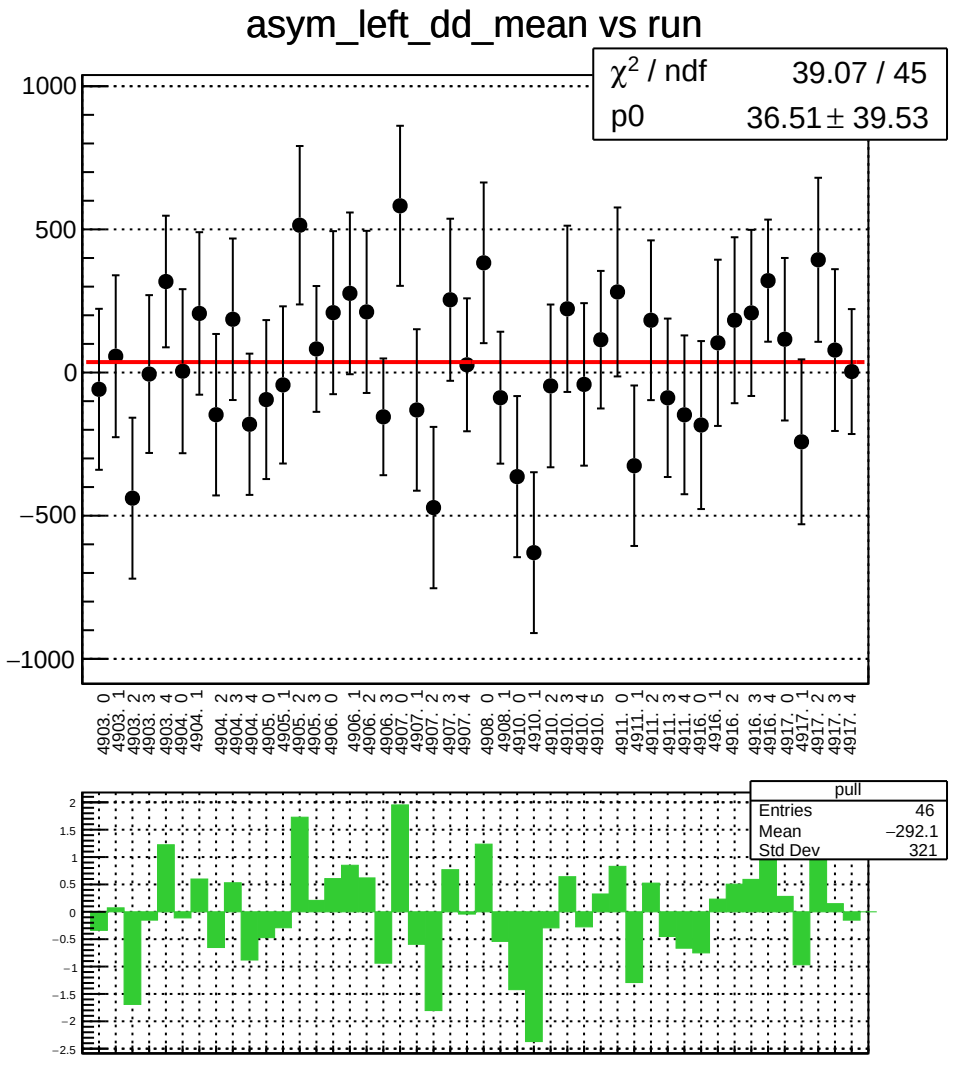

reg_asym_left_dd_mean vs run
χ² / ndf 53.92 / 45
p0 25.56 ± 33.61
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 498.2
Std Dev 478.3
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.00121
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

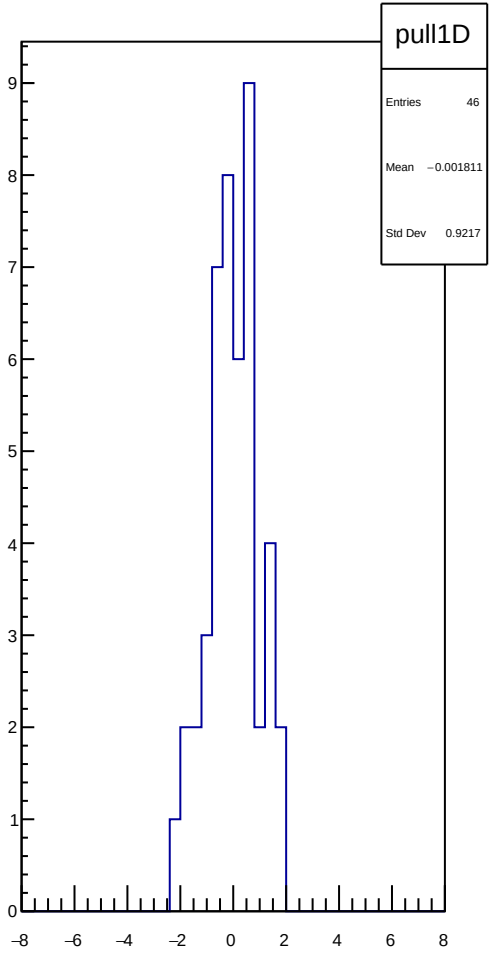

reg_asym_left_dd_rms vs run
χ² / ndf 50.44 / 45
p0 22.82 ± 0.02377
23.2
23
22.8
22.6
22.4
22.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

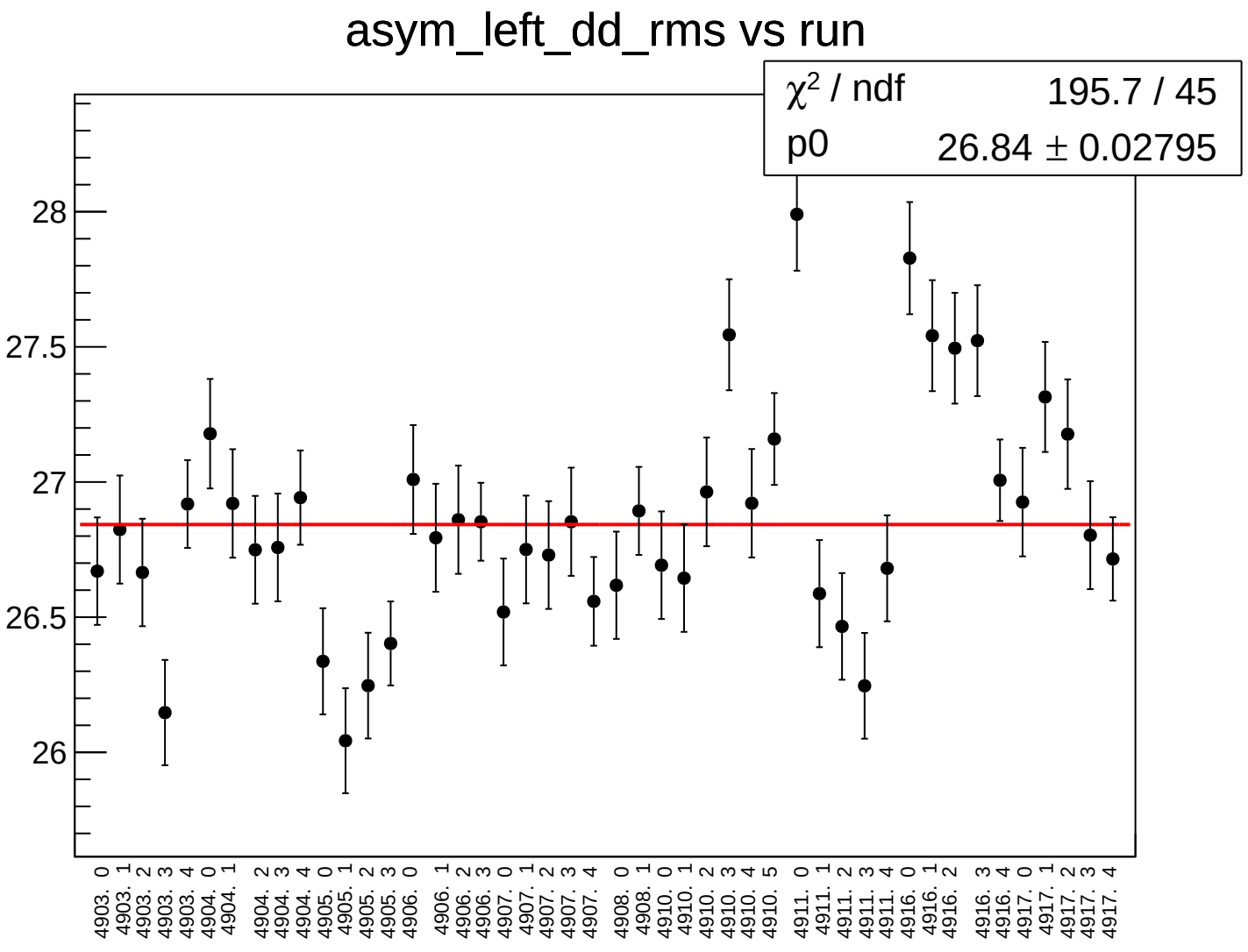

asym_left_dd_correction_mean vs run
χ² / ndf 36.63 / 45
p0 −9.088 ± 20.72
400
200
0
−200
−400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 398.6
Std Dev 373.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

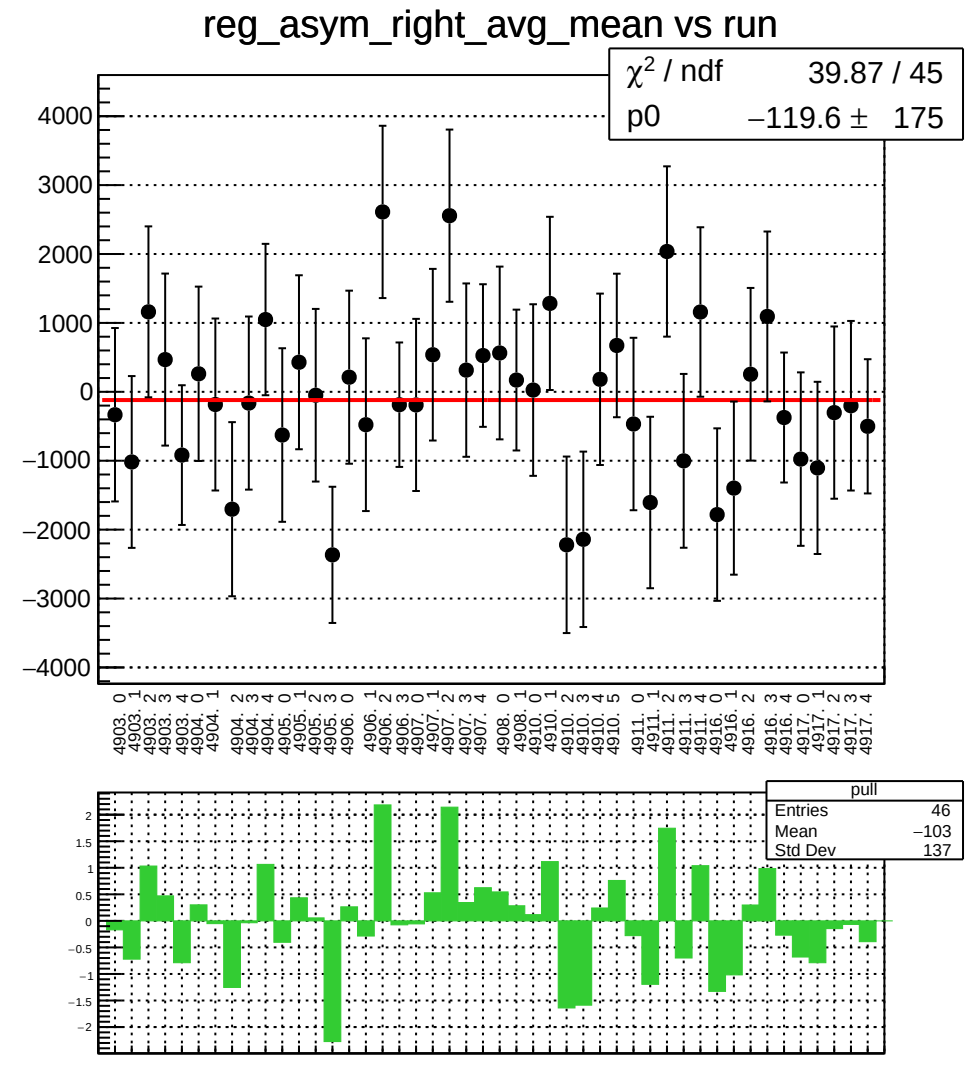

pull1D
Entries 46
Mean −0.005292
Std Dev 0.8923
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

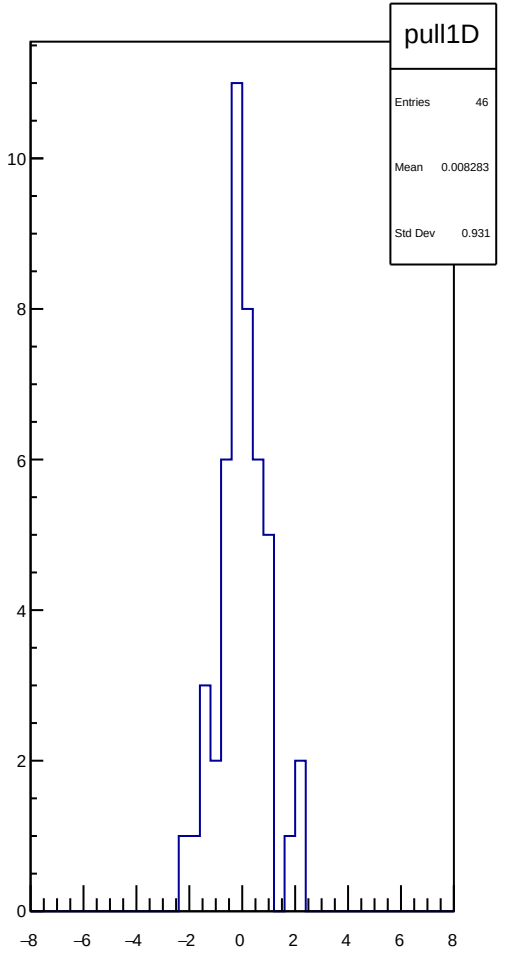

asym_left_dd_correction_rms vs run
χ² / ndf 2432 / 45
p0 14.05 ± 0.01465
16.5
16
15.5
15
14.5
14
13.5
13
12.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

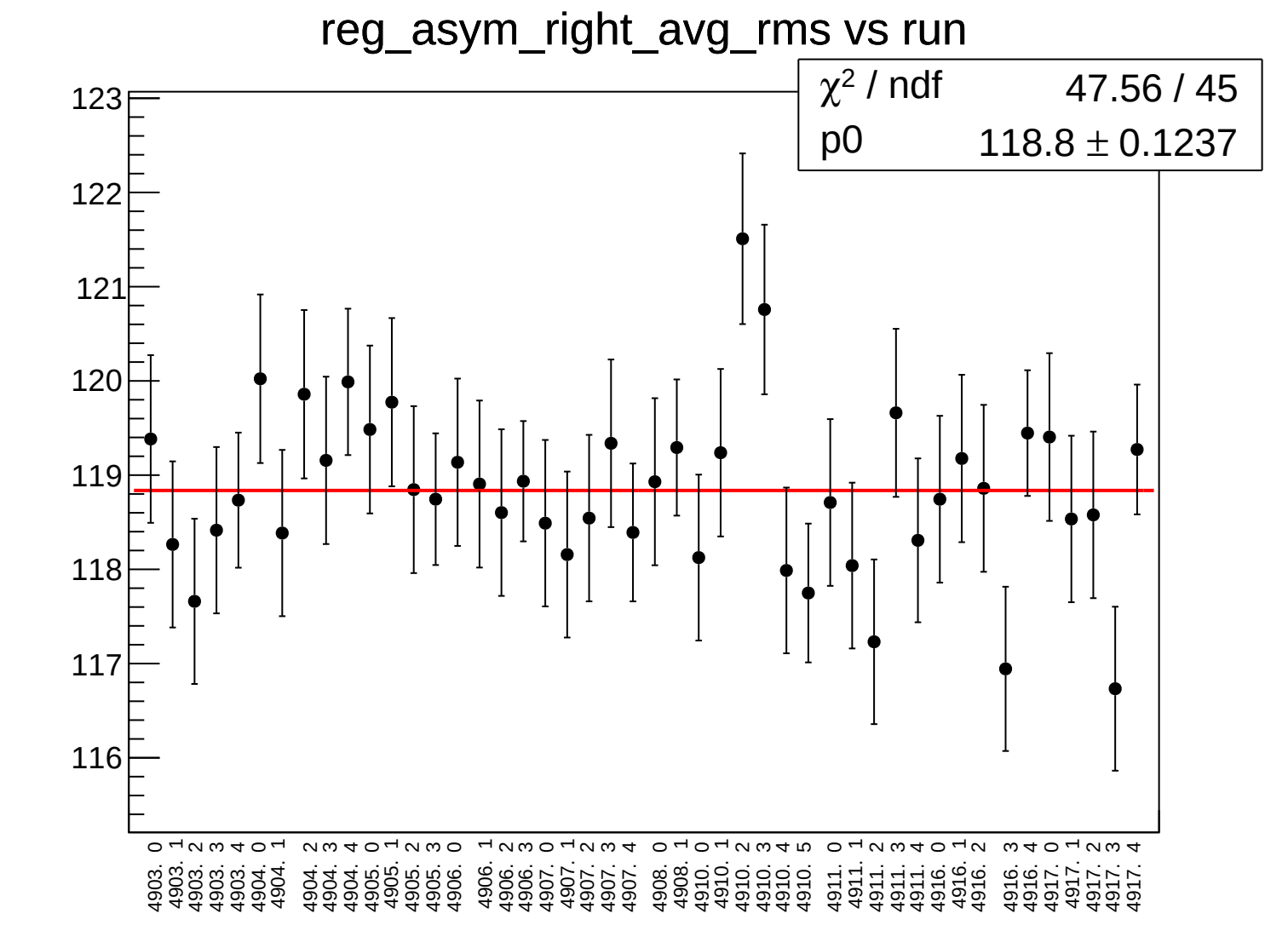

asym_left_dd_mean vs run
χ² / ndf 39.07 / 45
p0 36.51 ± 39.53
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −292.1
Std Dev 321
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

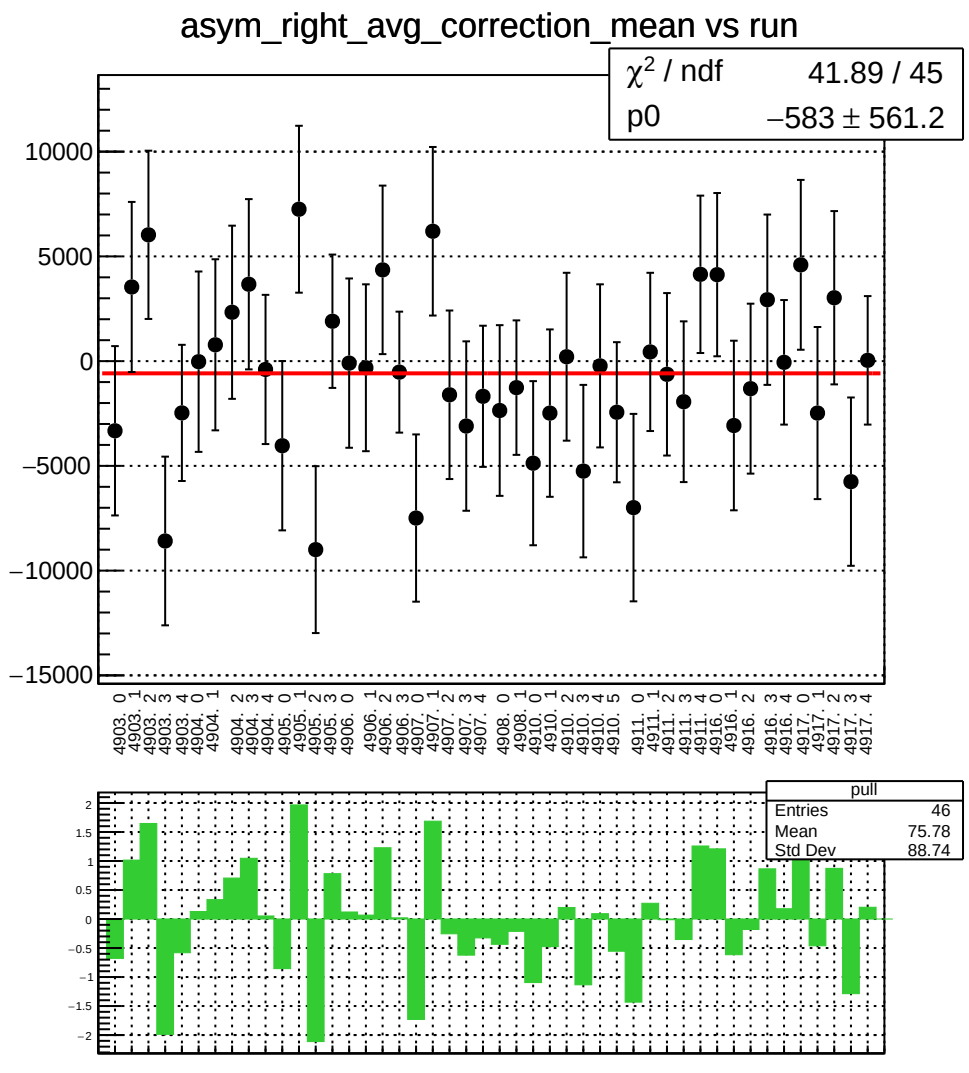

pull1D
Entries 46
Mean −0.001811
Std Dev 0.9217
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

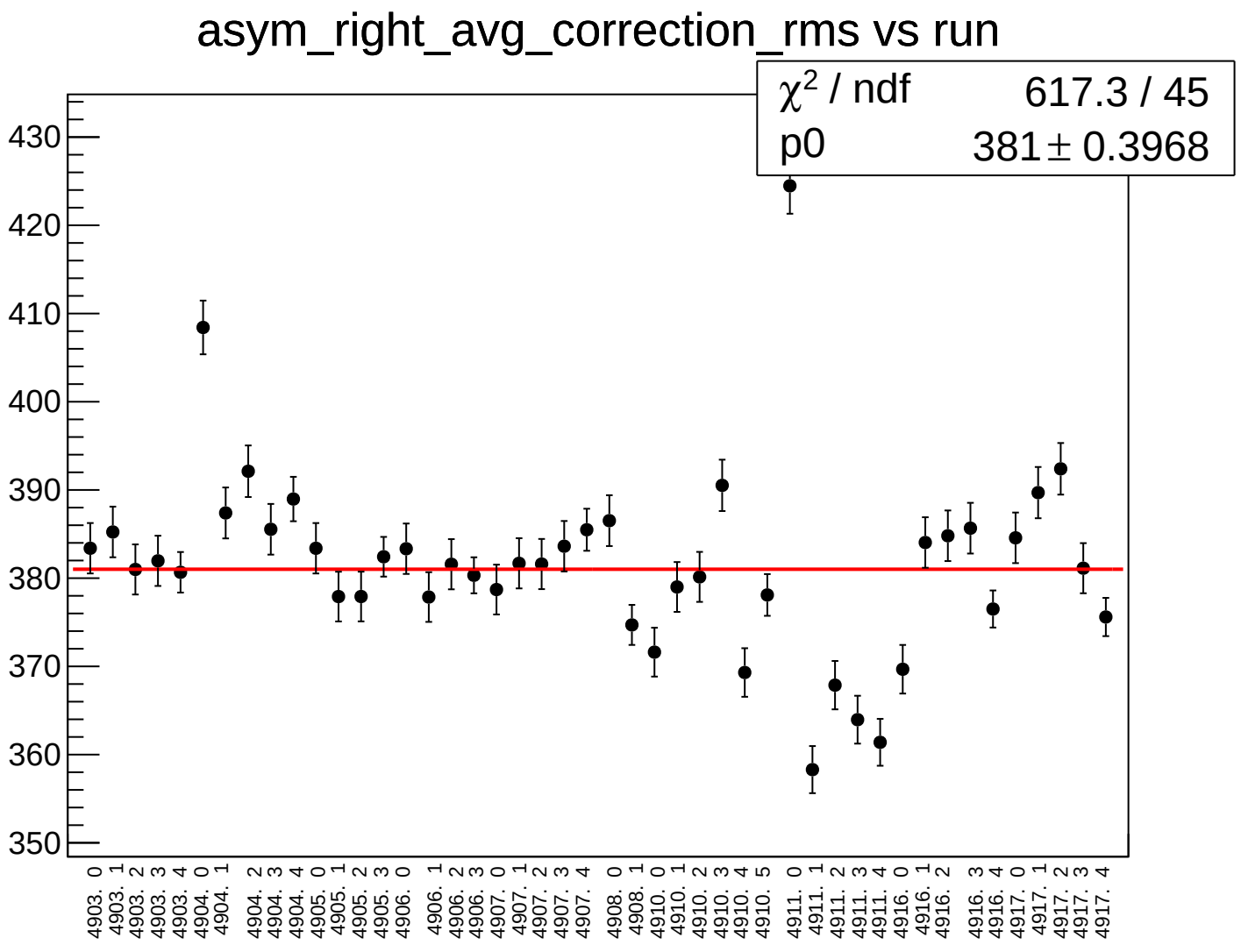

asym_left_dd_rms vs run
χ² / ndf 195.7 / 45
p0 26.84 ± 0.02795
28
27.5
27
26.5
26
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

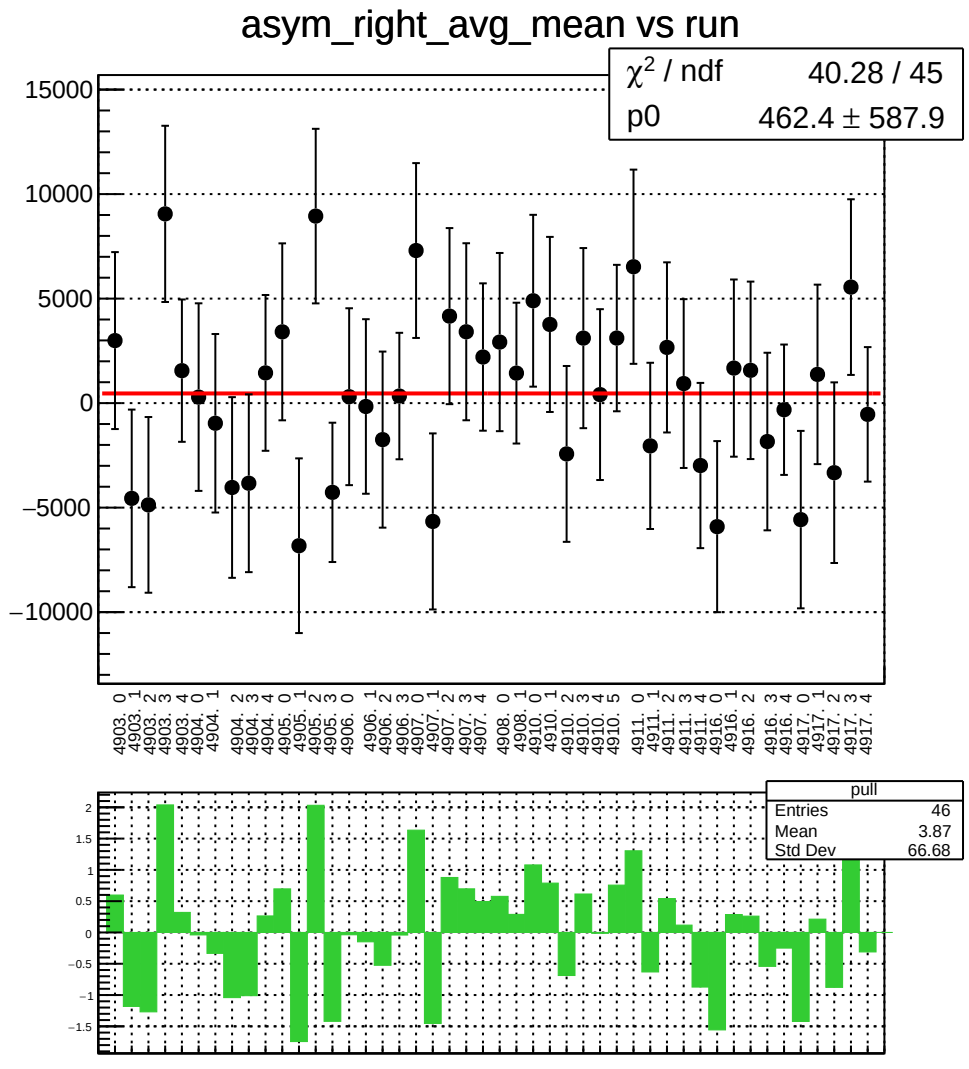

reg_asym_right_avg_mean vs run
χ² / ndf 39.87 / 45
p0 −119.6 ± 175
pull
Entries 46
Mean −103
Std Dev 137

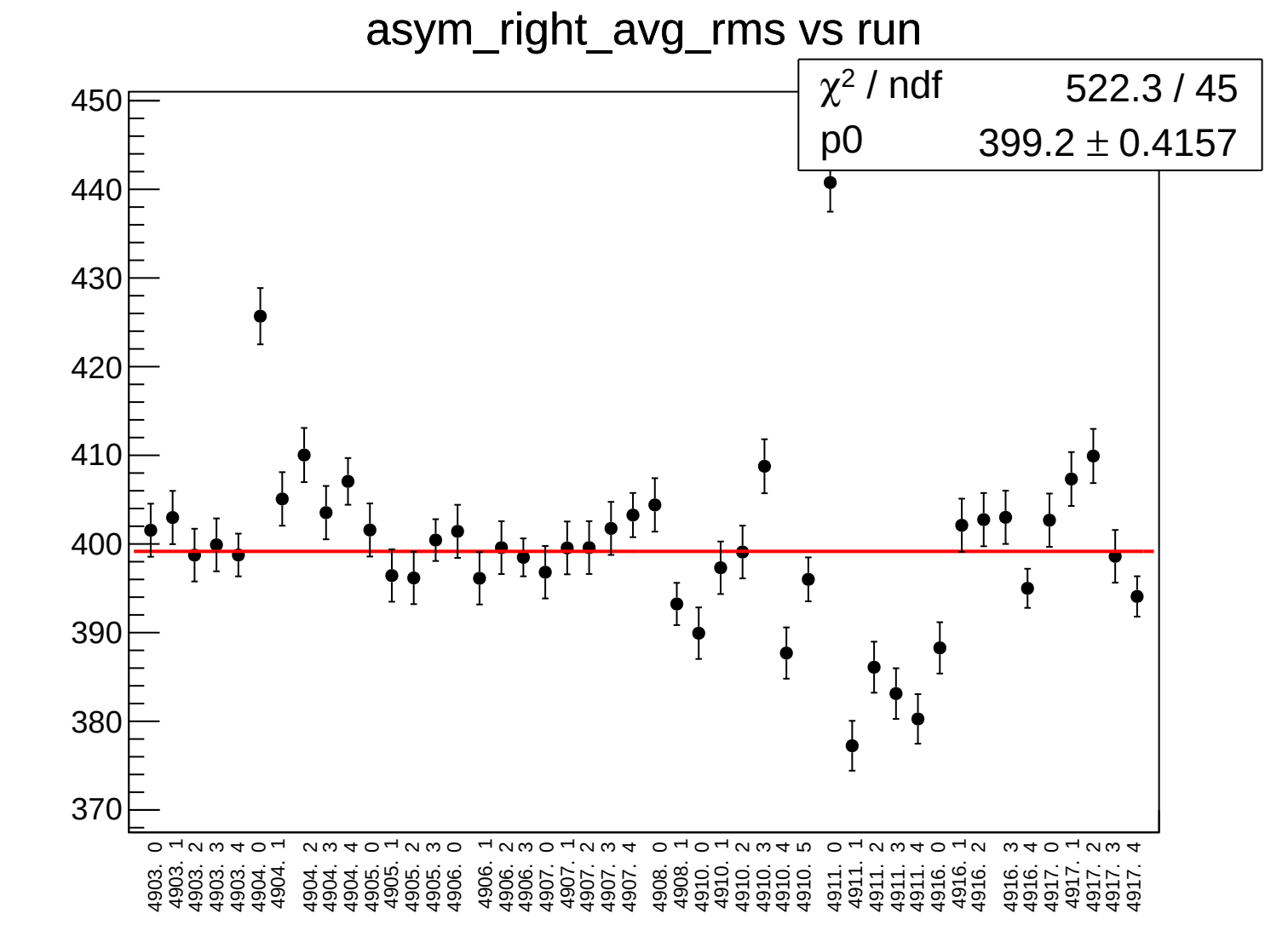

pull1D
Entries 46
Mean 0.008283
Std Dev 0.931

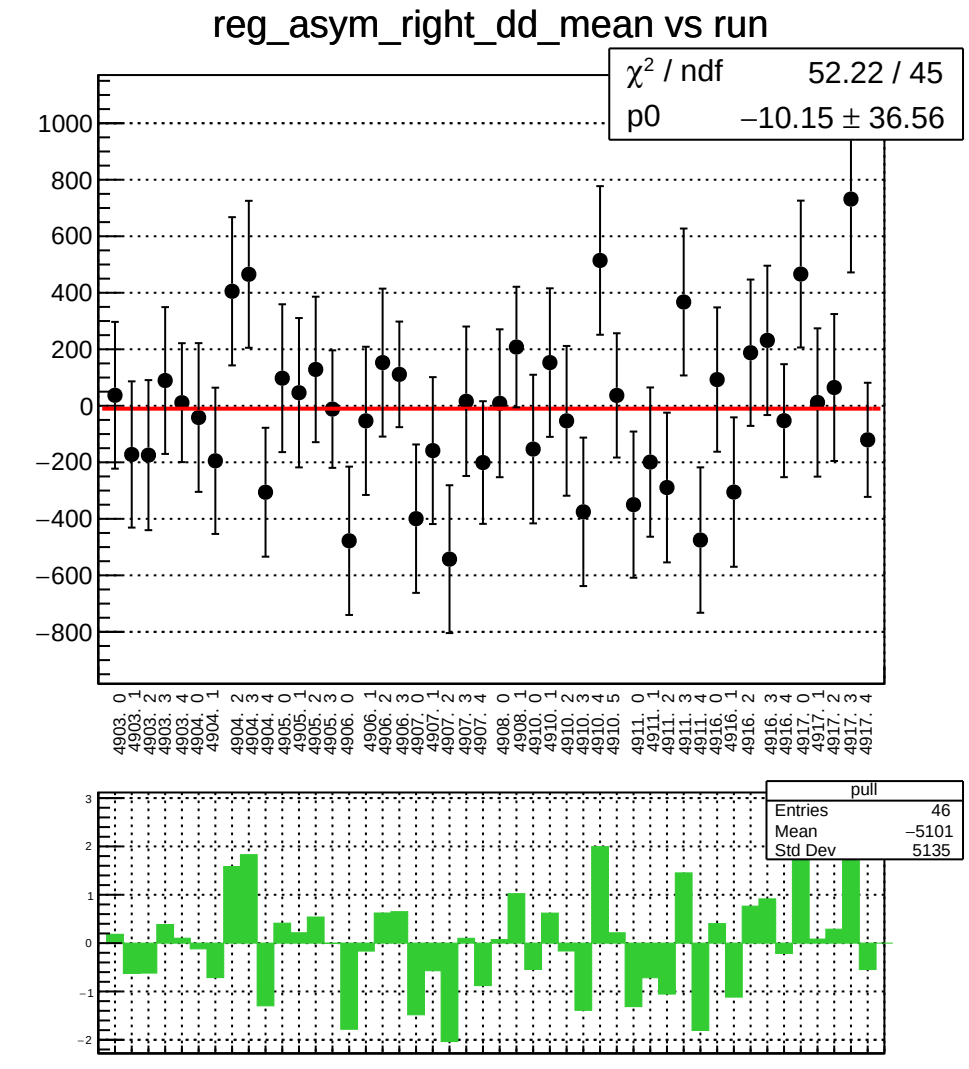

reg_asym_right_avg_rms vs run
χ² / ndf 47.56 / 45
p0 118.8 ± 0.1237
123
122
121
120
119
118
117
116
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

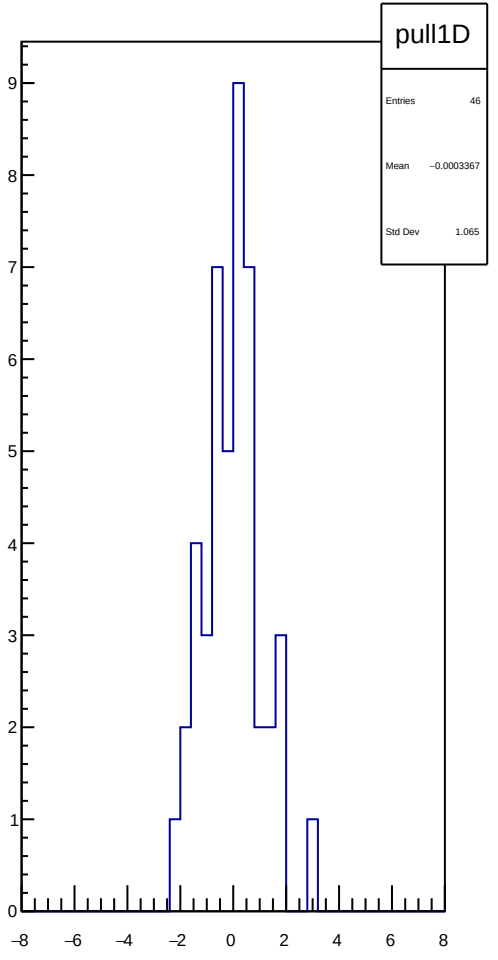

asym_right_avg_correction_mean vs run
χ² / ndf 41.89 / 45
p0 −583 ± 561.2
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 75.78
Std Dev 88.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.003745
Std Dev 0.9543
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

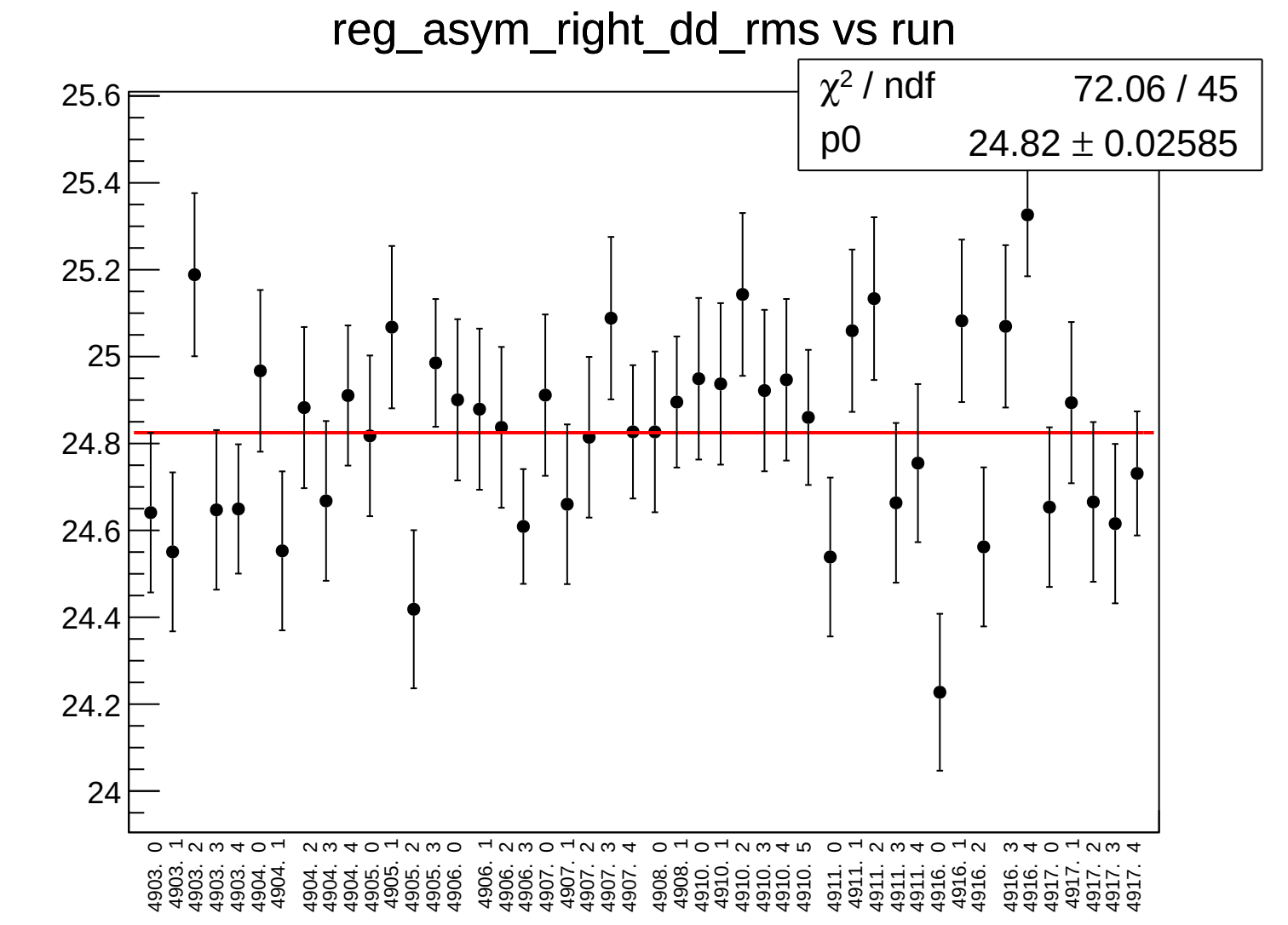

asym_right_avg_correction_rms vs run
χ^2 / ndf 617.3 / 45
p0 381 ± 0.3968
430
420
410
400
390
380
370
360
350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

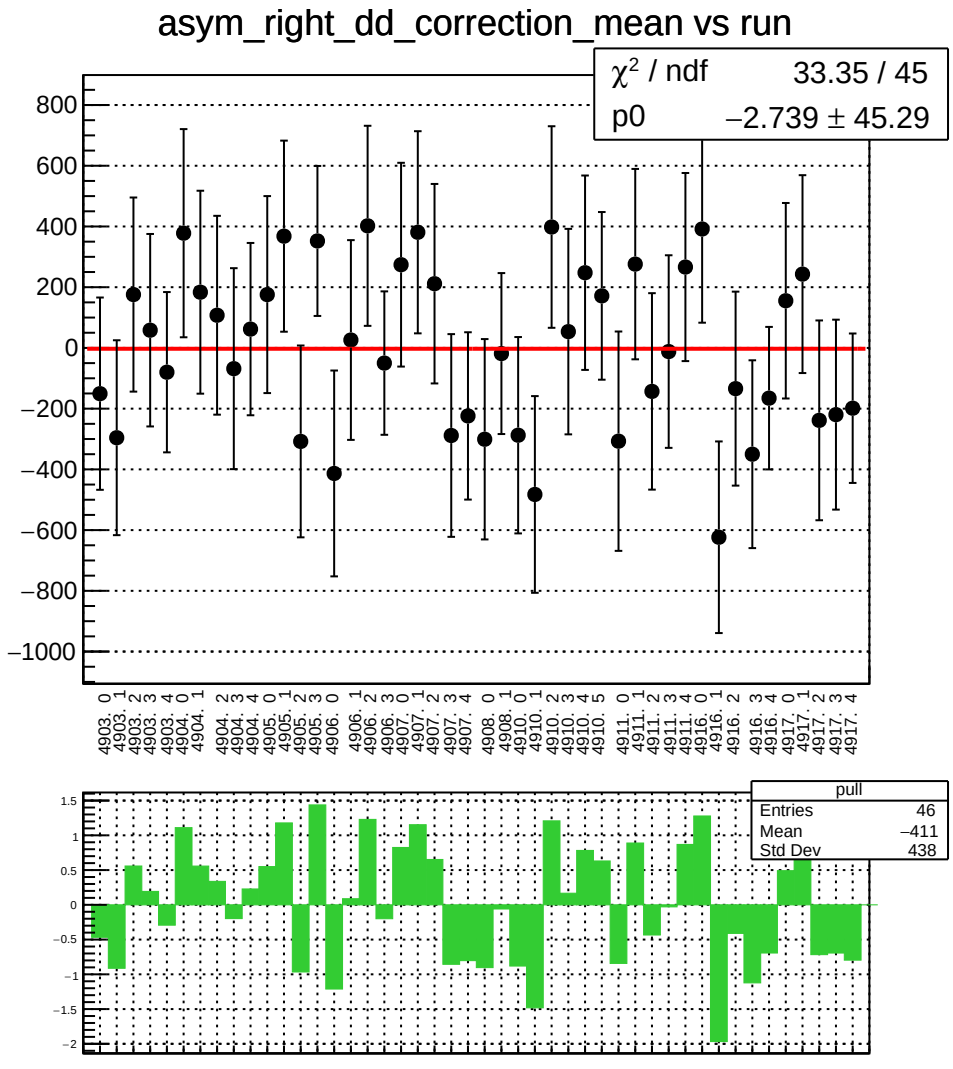

asym_right_avg_mean vs run
χ² / ndf 40.28 / 45
p0 462.4 ± 587.9
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 3.87
Std Dev 66.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006202
Std Dev 0.9358
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

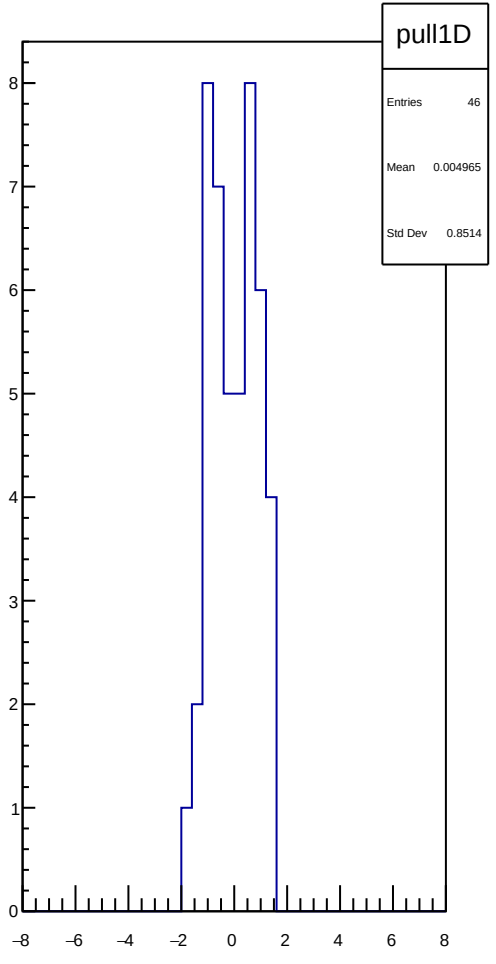

asym_right_avg_rms vs run
χ² / ndf 522.3 / 45
p0 399.2 ± 0.4157
450
440
430
420
410
400
390
380
370
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

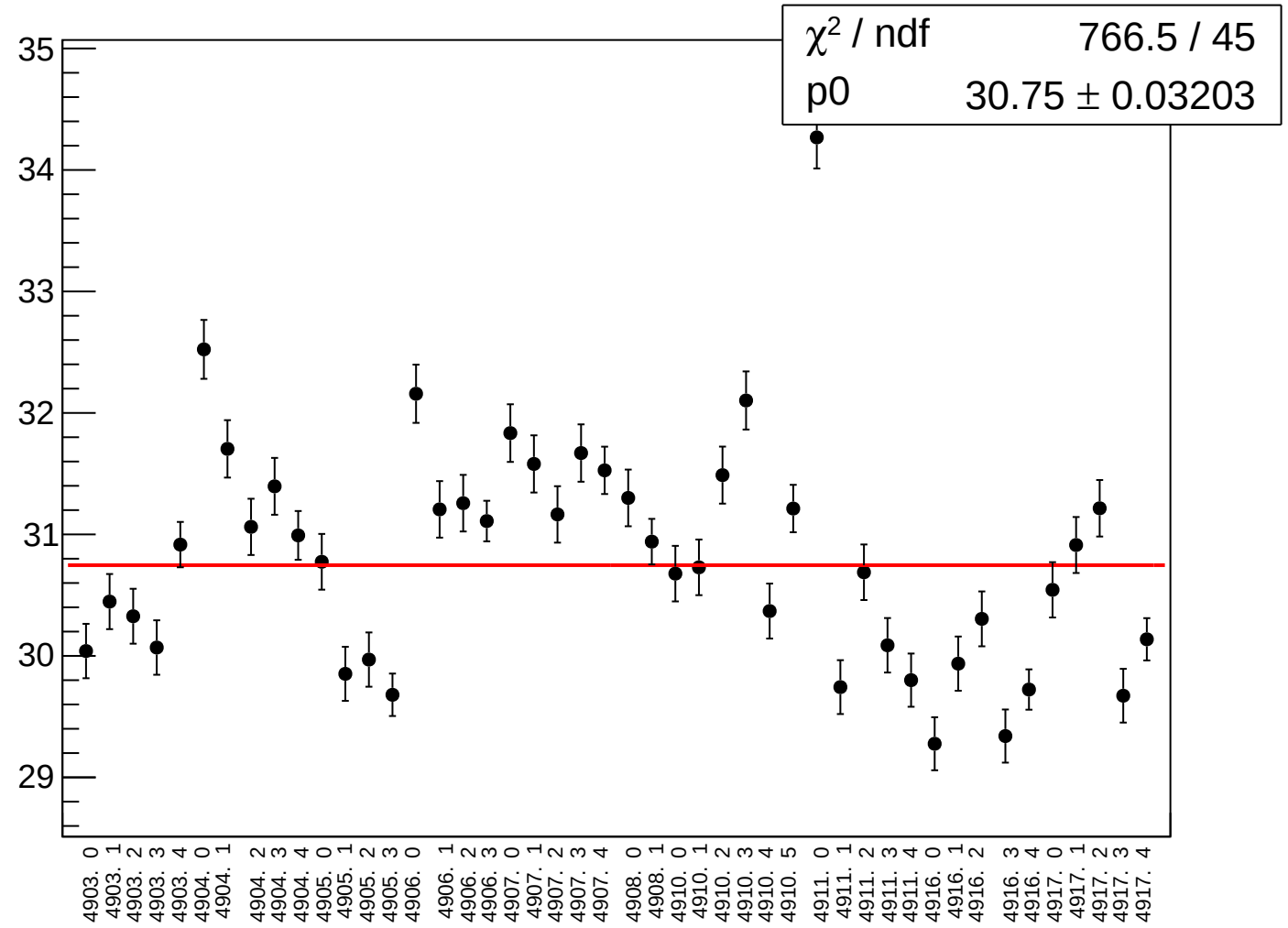

reg_asym_right_dd_mean vs run
χ² / ndf 52.22 / 45
p0 −10.15 ± 36.56
pull
Entries 46
Mean −5101
Std Dev 5135

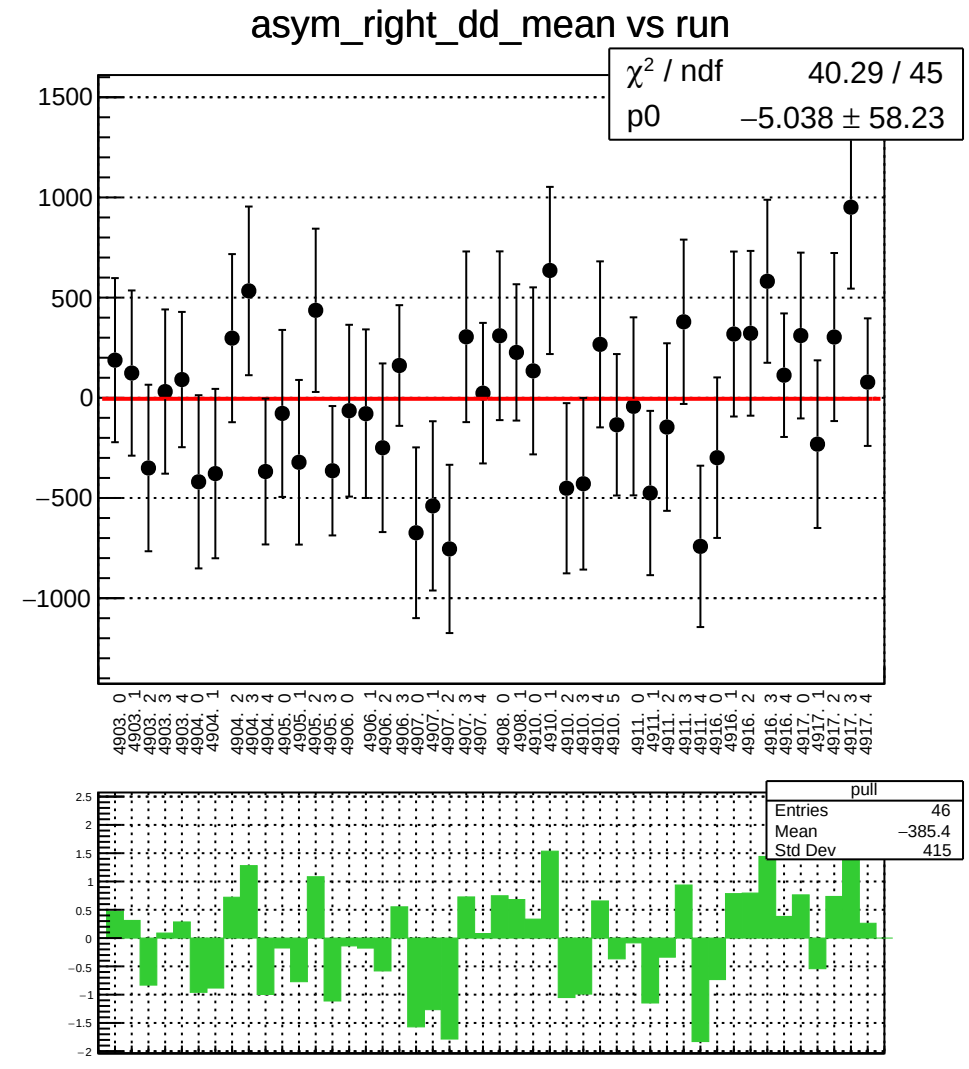

pull1D
Entries 46
Mean −0.0003367
Std Dev 1.065

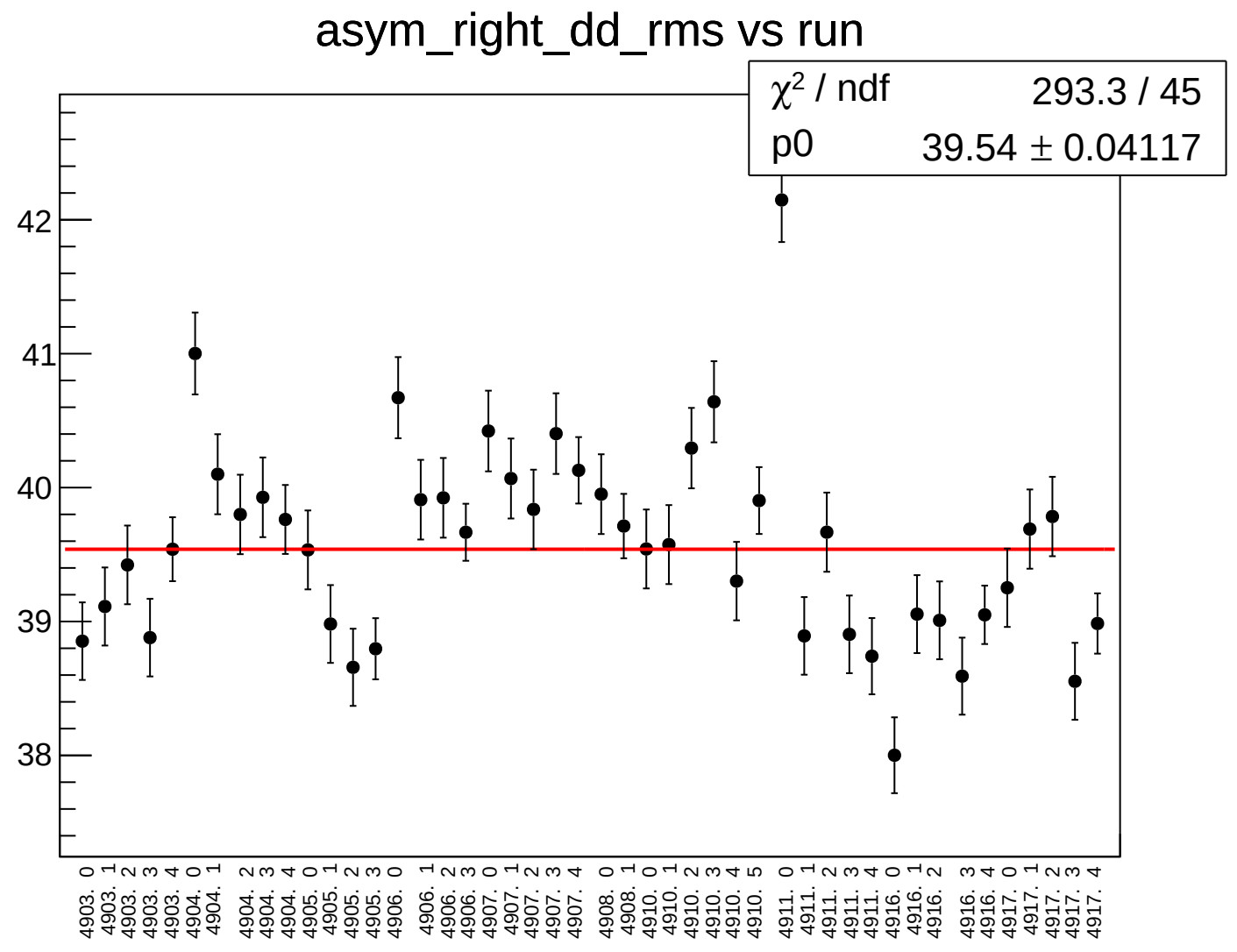

reg_asym_right_dd_rms vs run
χ² / ndf 72.06 / 45
p0 24.82 ± 0.02585
25.6
25.4
25.2
25
24.8
24.6
24.4
24.2
24
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

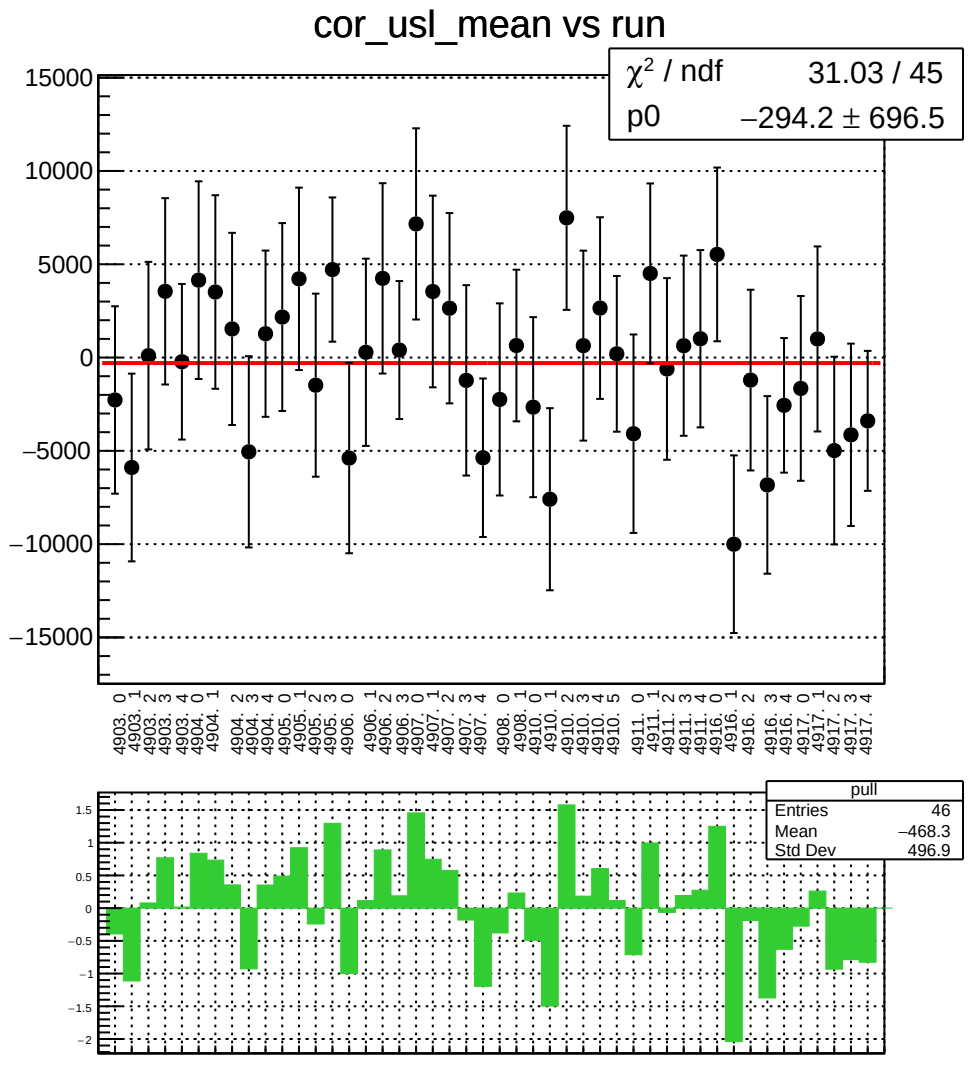

asym_right_dd_correction_mean vs run
χ² / ndf 33.35 / 45
p0 −2.739 ± 45.29
pull
Entries 46
Mean −411
Std Dev 438

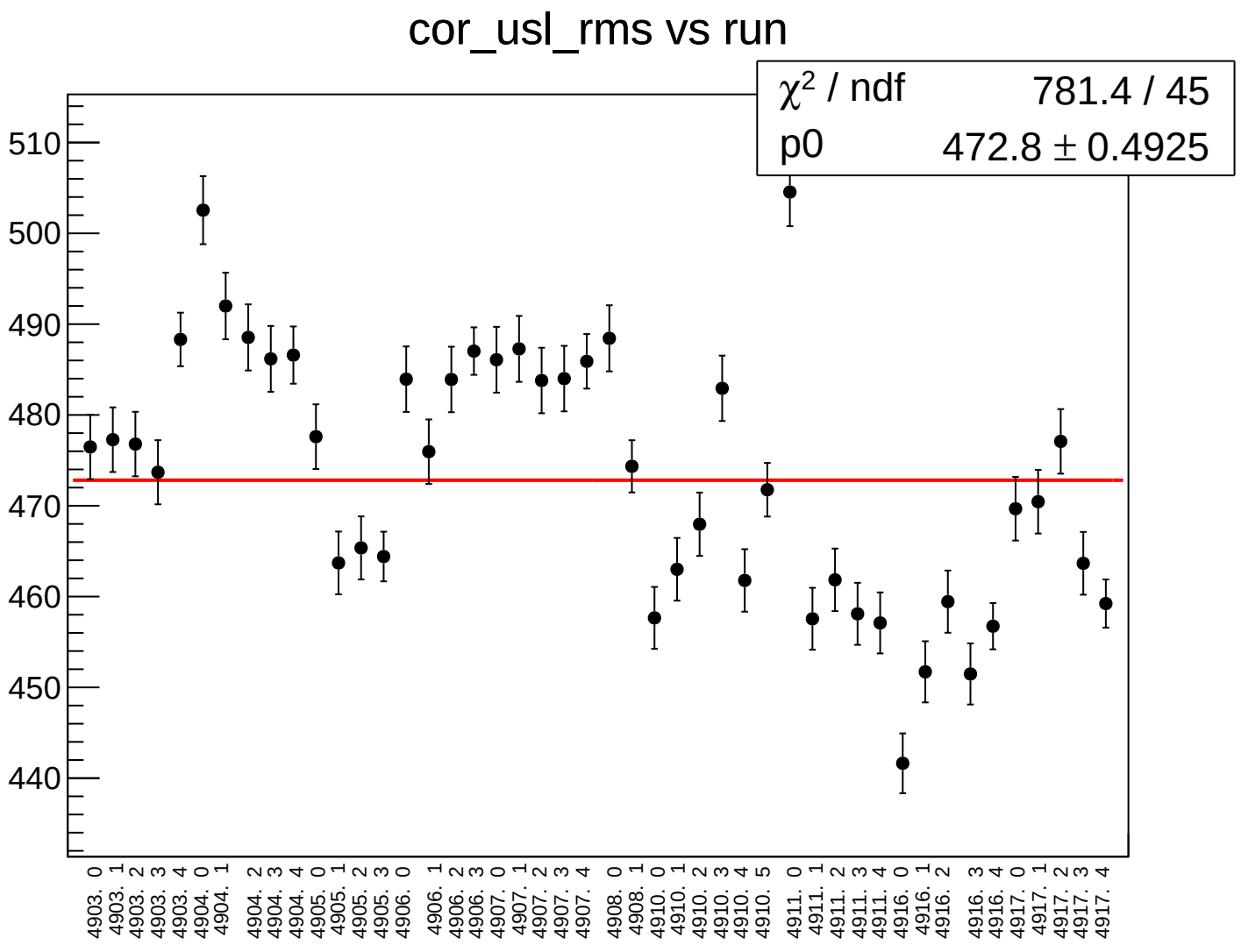

pull1D
Entries 46
Mean 0.004965
Std Dev 0.8514

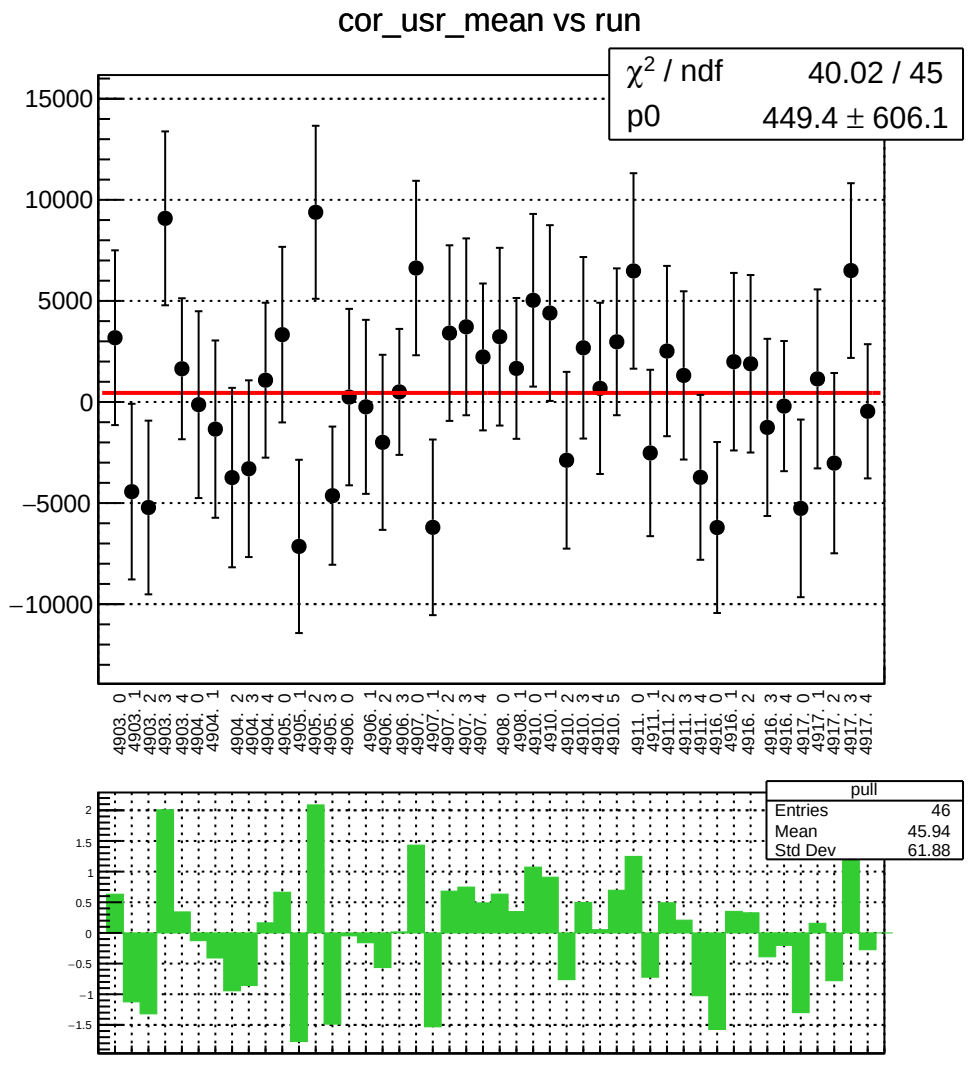

asym_right_dd_correction_rms vs run
χ² / ndf 766.5 / 45
p0 30.75 ± 0.03203
35
34
33
32
31
30
29
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

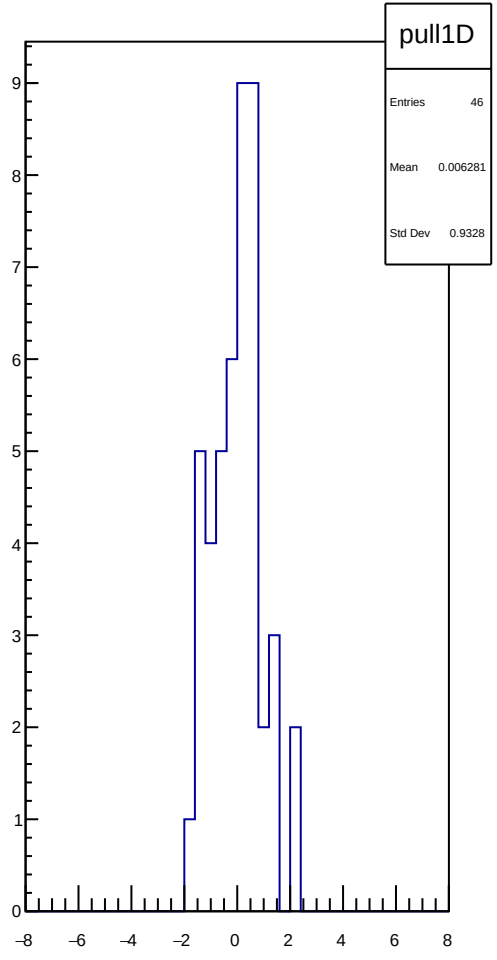

asym_right_dd_mean vs run
χ² / ndf 40.29 / 45
p0 −5.038 ± 58.23
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −385.4
Std Dev 415
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.006771
Std Dev 0.9358
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

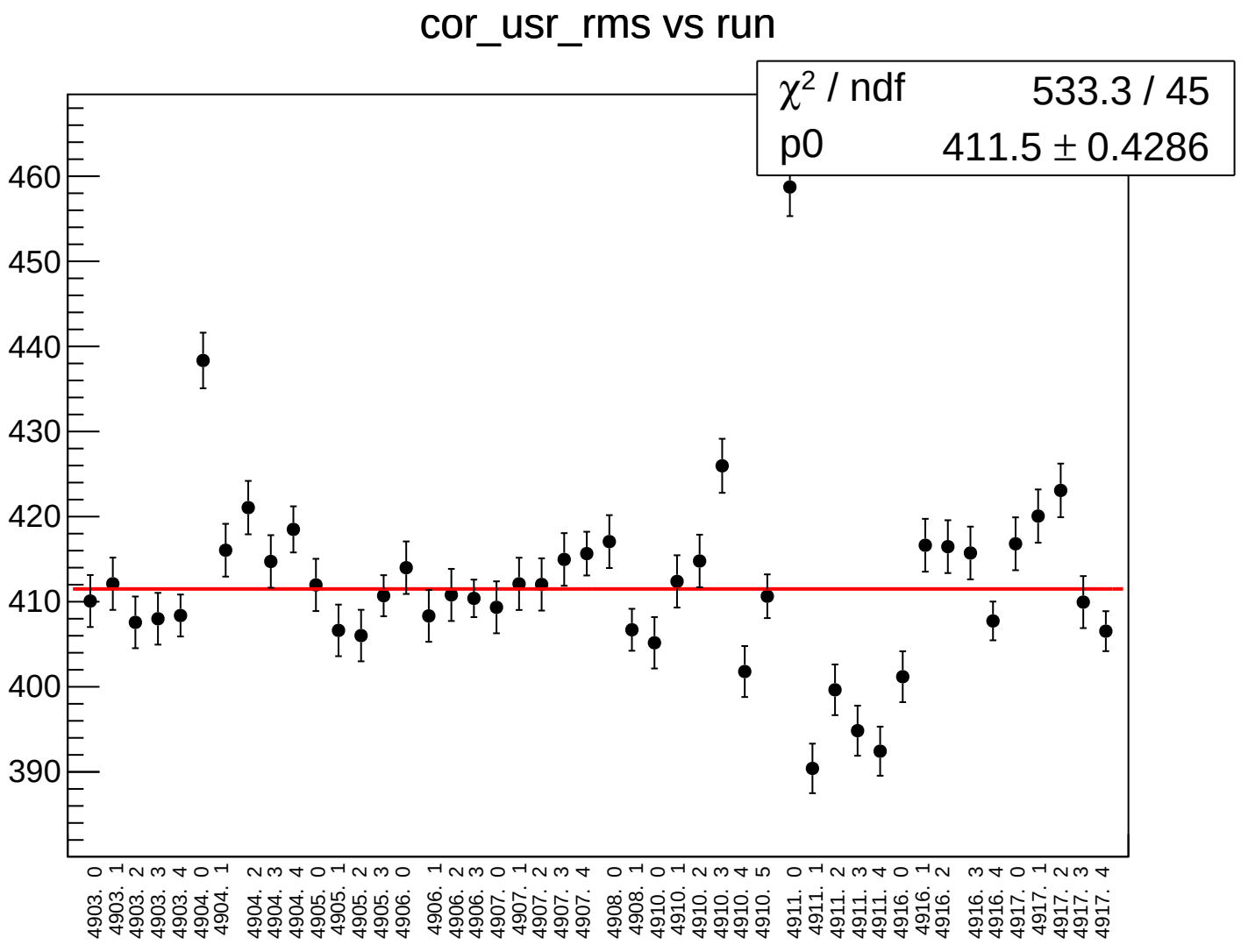

asym_right_dd_rms vs run
χ² / ndf 293.3 / 45
p0 39.54 ± 0.04117
42
41
40
39
38
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

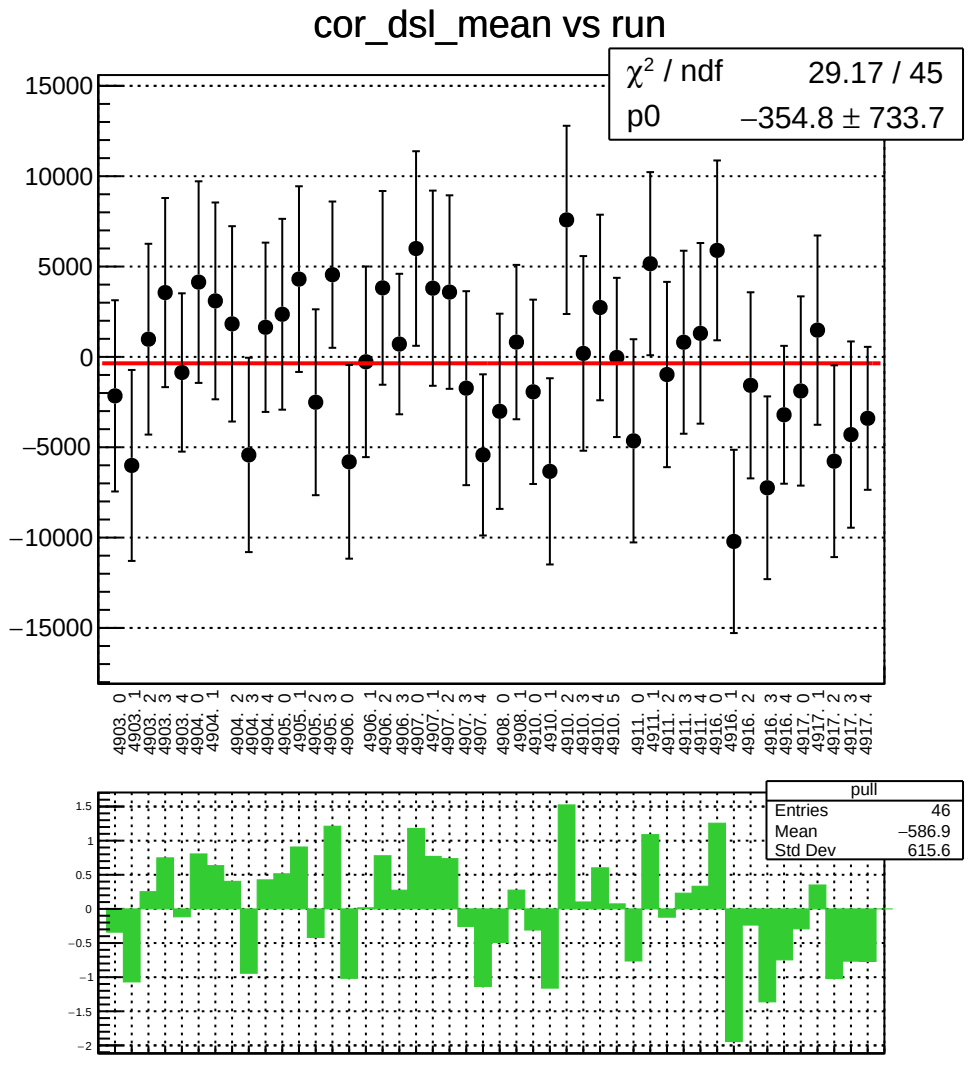

cor_usl_mean vs run
χ² / ndf 31.03 / 45
p0 −294.2 ± 696.5
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −468.3
Std Dev 496.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.005845
Std Dev 0.8213
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

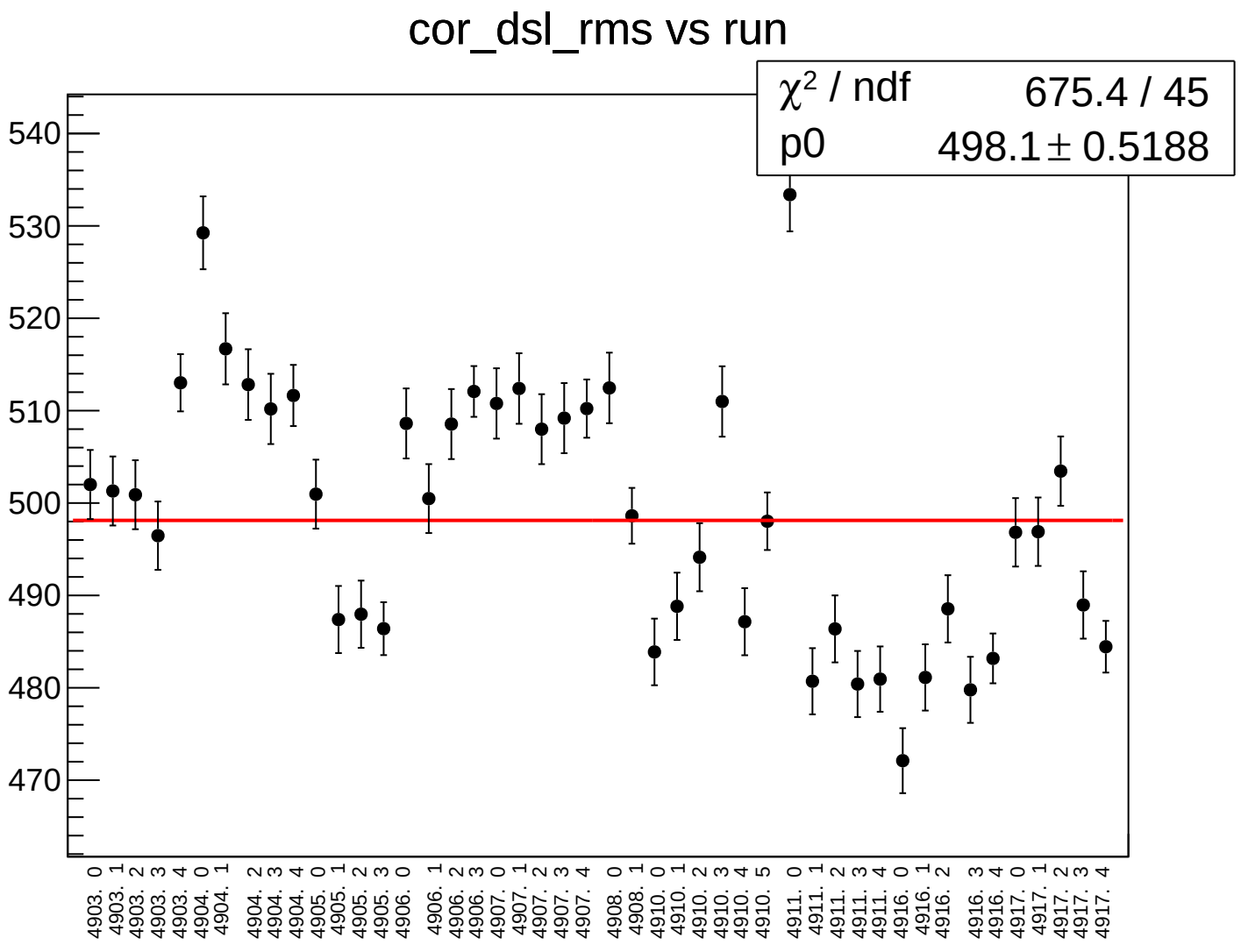

cor_usl_rms vs run
χ² / ndf 781.4 / 45
p0 472.8 ± 0.4925
510
500
490
480
470
460
450
440
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

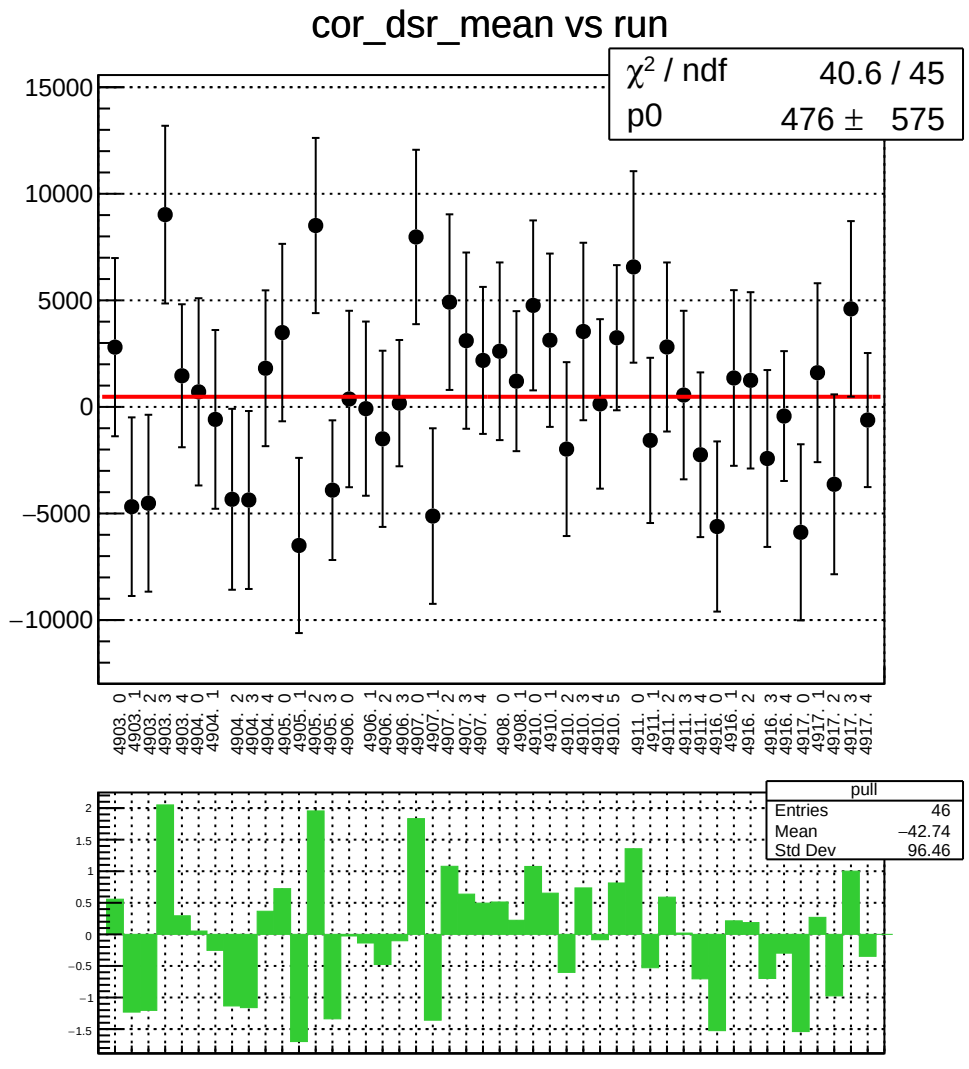

cor_usr_mean vs run
χ² / ndf 40.02 / 45
p0 449.4 ± 606.1
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 45.94
Std Dev 61.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

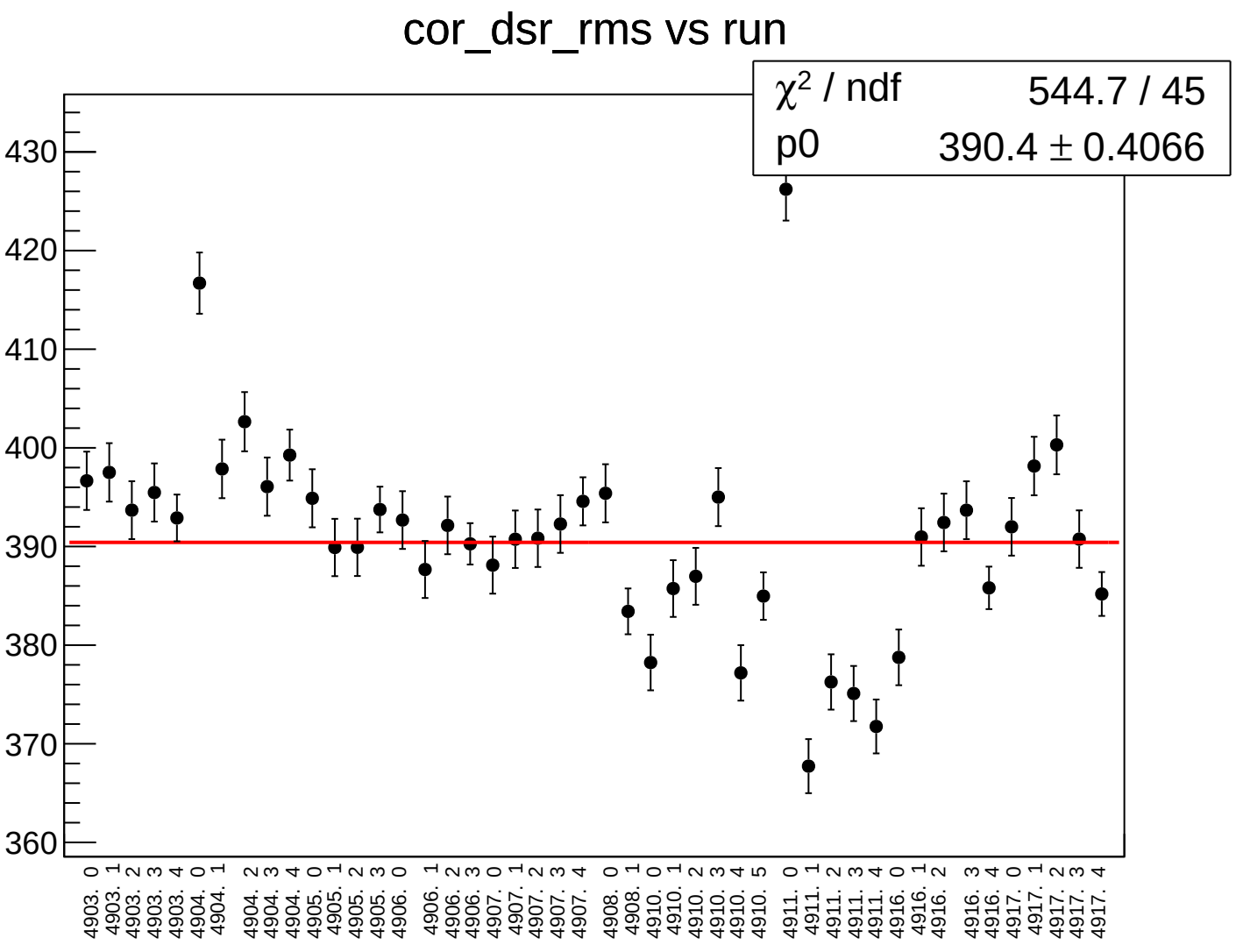

pull1D
Entries 46
Mean 0.006281
Std Dev 0.9328
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

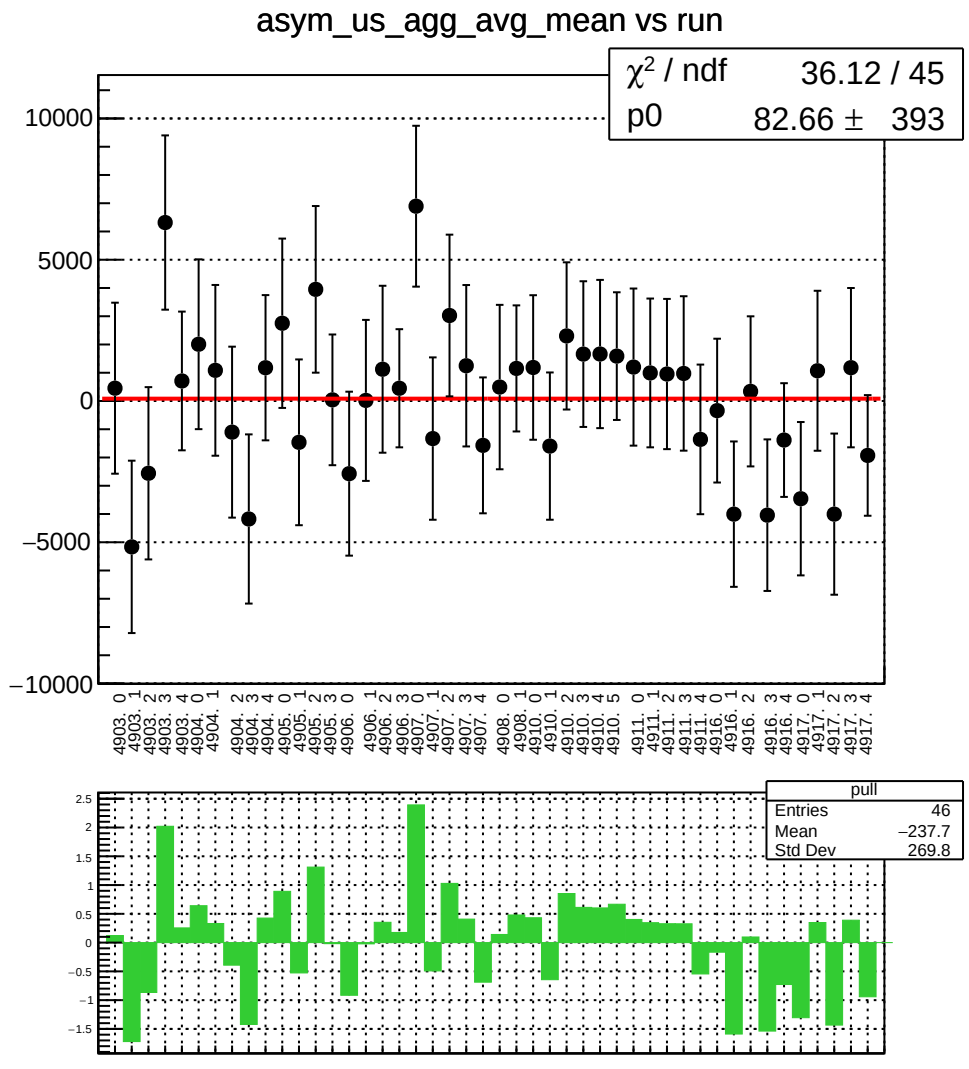

cor_usr_rms vs run
χ² / ndf 533.3 / 45
p0 411.5 ± 0.4286
460
450
440
430
420
410
400
390
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

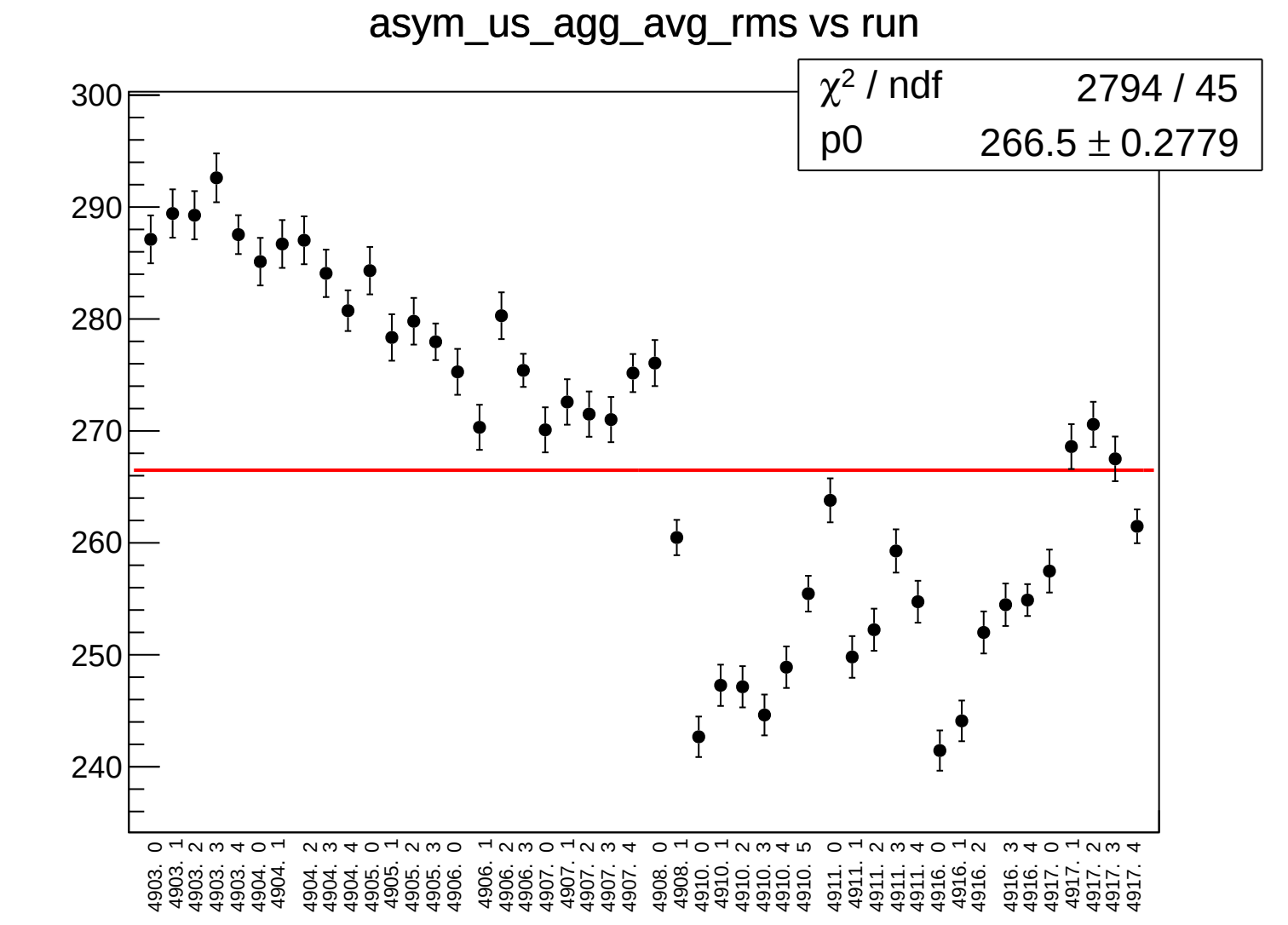

cor_dsl_mean vs run
χ² / ndf 29.17 / 45
p0 −354.8 ± 733.7
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −586.9
Std Dev 615.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004559
Std Dev 0.7963
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

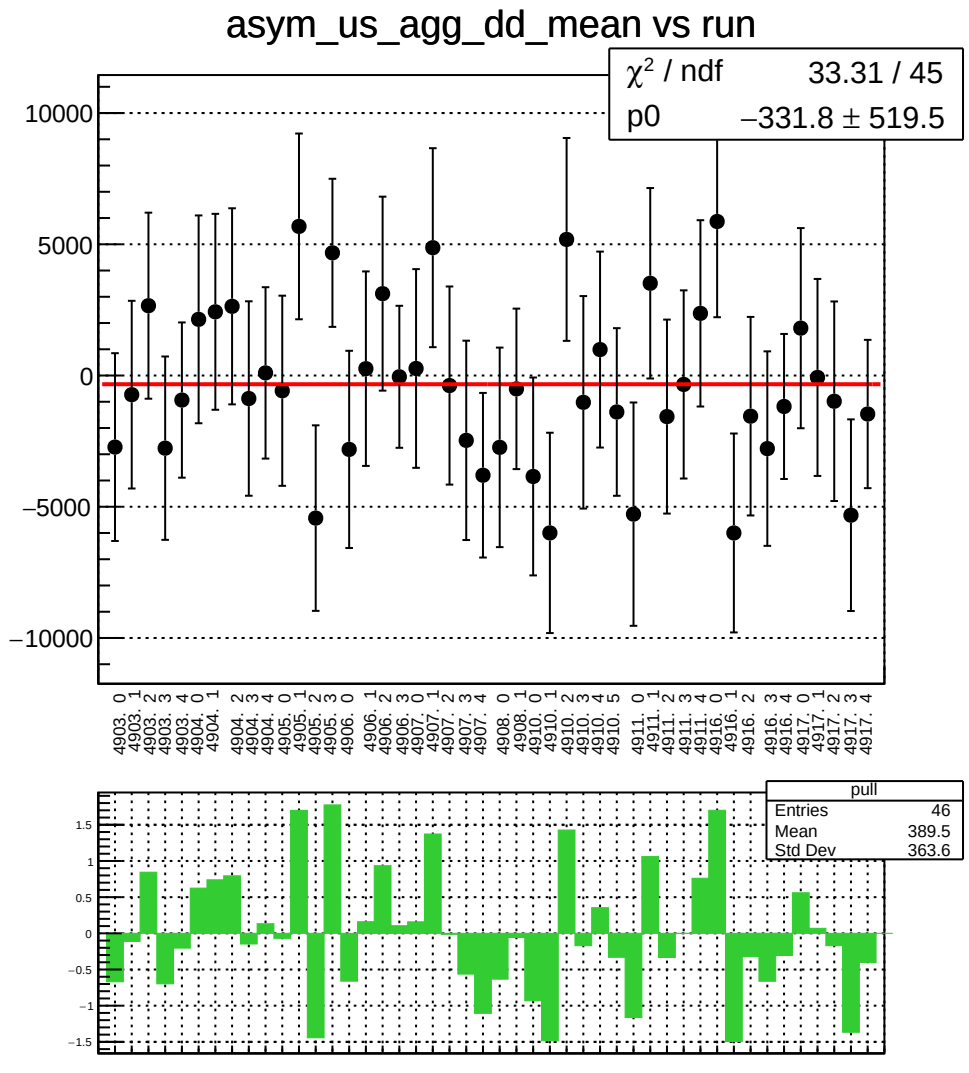

cor_dsl_rms vs run
χ² / ndf 675.4 / 45
p0 498.1 ± 0.5188
540
530
520
510
500
490
480
470
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

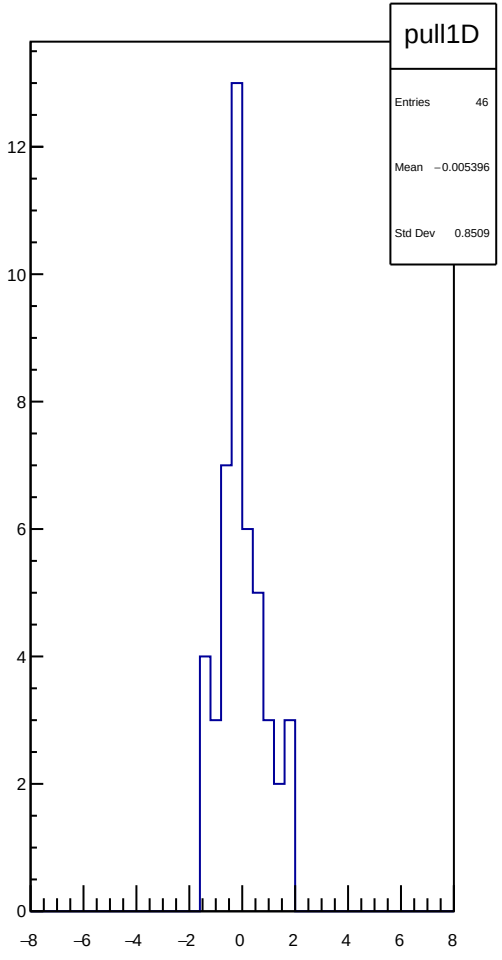

cor_dsr_mean vs run
χ² / ndf 40.6 / 45
p0 476 ± 575
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −42.74
Std Dev 96.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006001
Std Dev 0.9395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

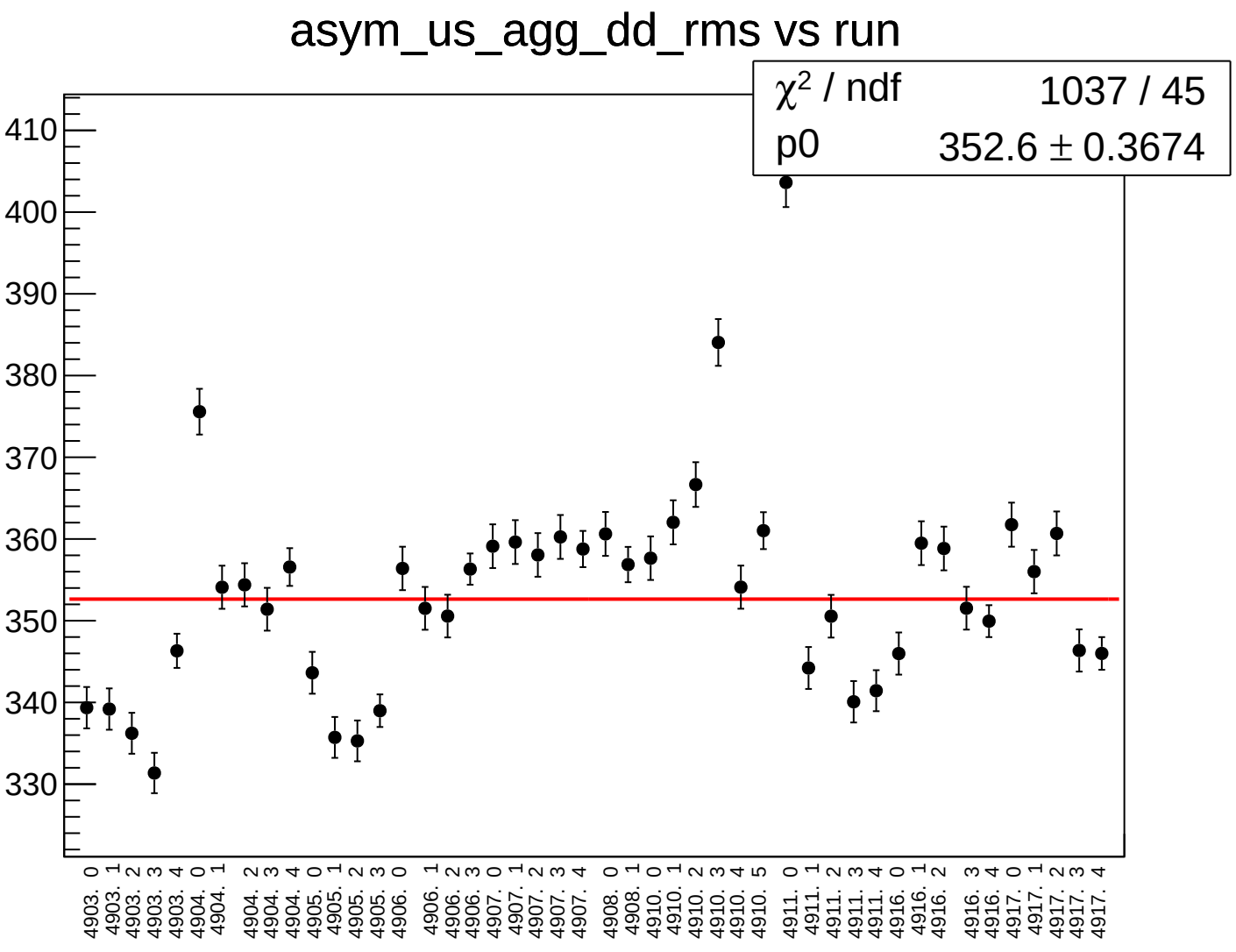

cor_dsr_rms vs run
χ² / ndf 544.7 / 45
p0 390.4 ± 0.4066
430
420
410
400
390
380
370
360
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_us_agg_avg_mean vs run
χ^2 / ndf 36.12 / 45
p0 82.66 ± 393
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −237.7
Std Dev 269.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.009372
Std Dev 0.8861
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_avg_rms vs run
χ² / ndf 2794 / 45
p0 266.5 ± 0.2779
300
290
280
270
260
250
240
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_us_agg_dd_mean vs run
χ² / ndf 33.31 / 45
p0 −331.8 ± 519.5
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 389.5
Std Dev 363.6
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean −0.005396
Std Dev 0.8509
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 1037 / 45
p0 352.6 ± 0.3674
410
400
390
380
370
360
350
340
330
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
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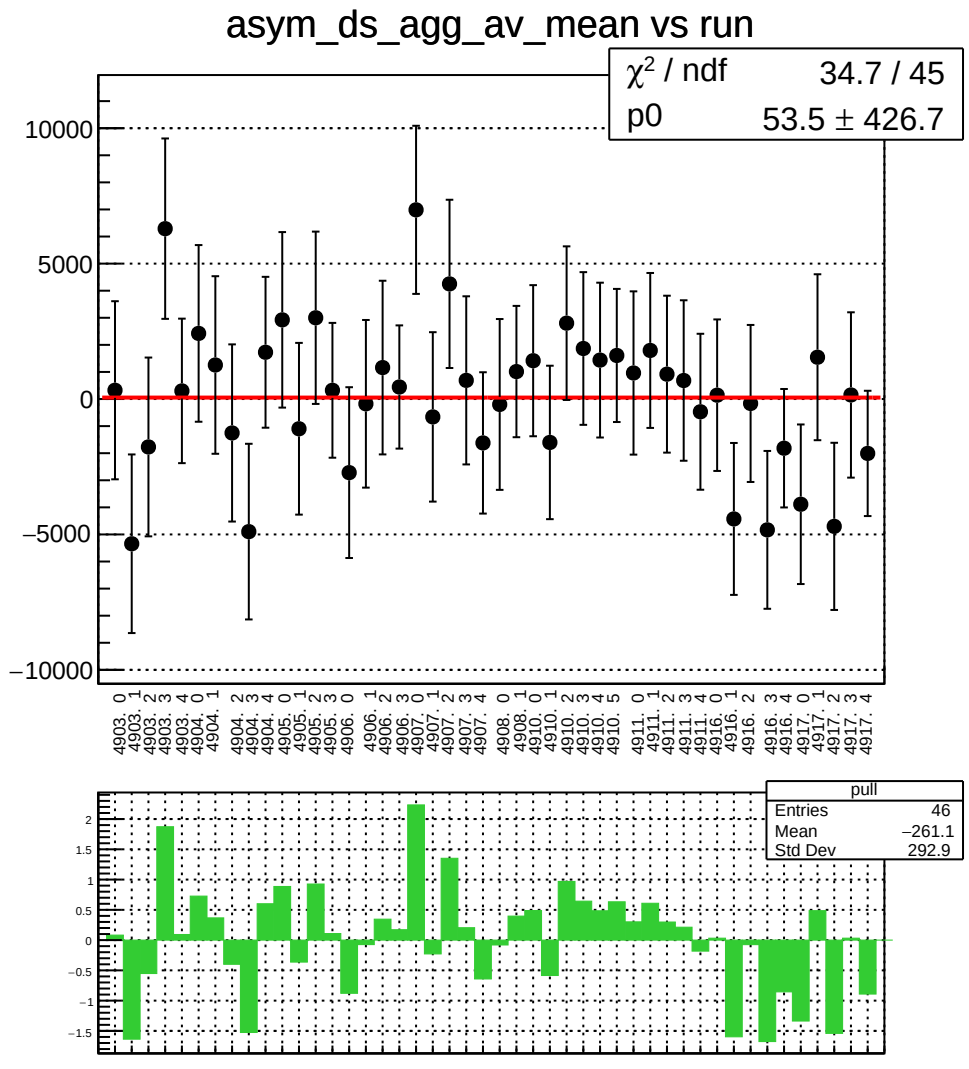
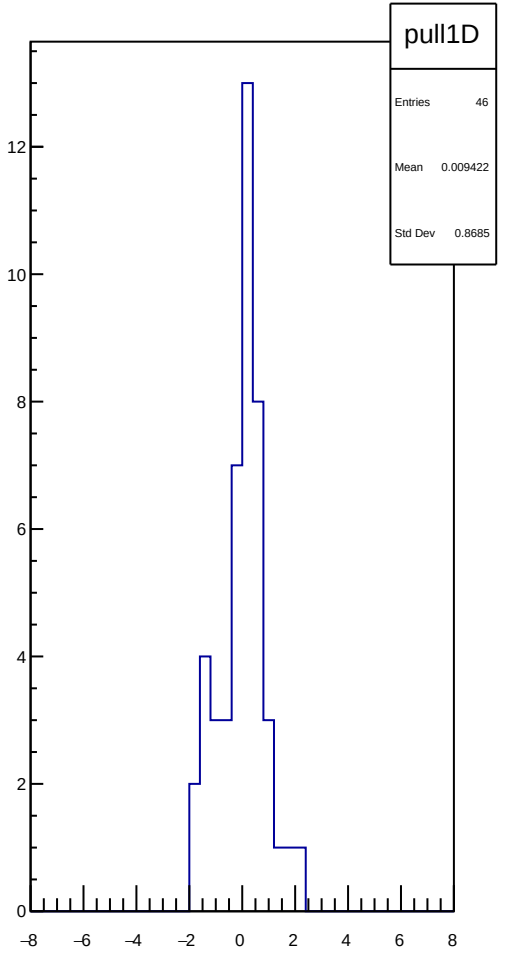
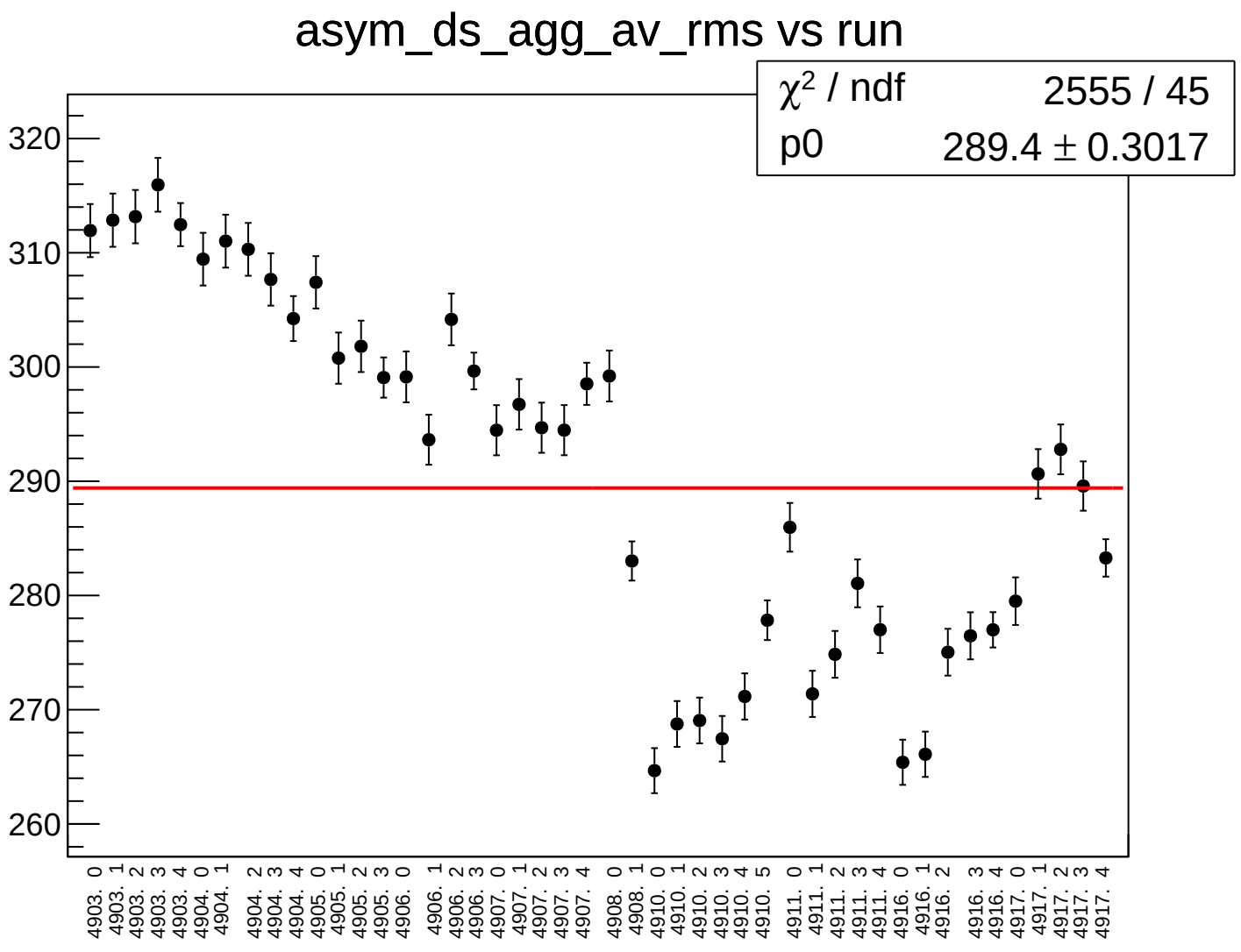
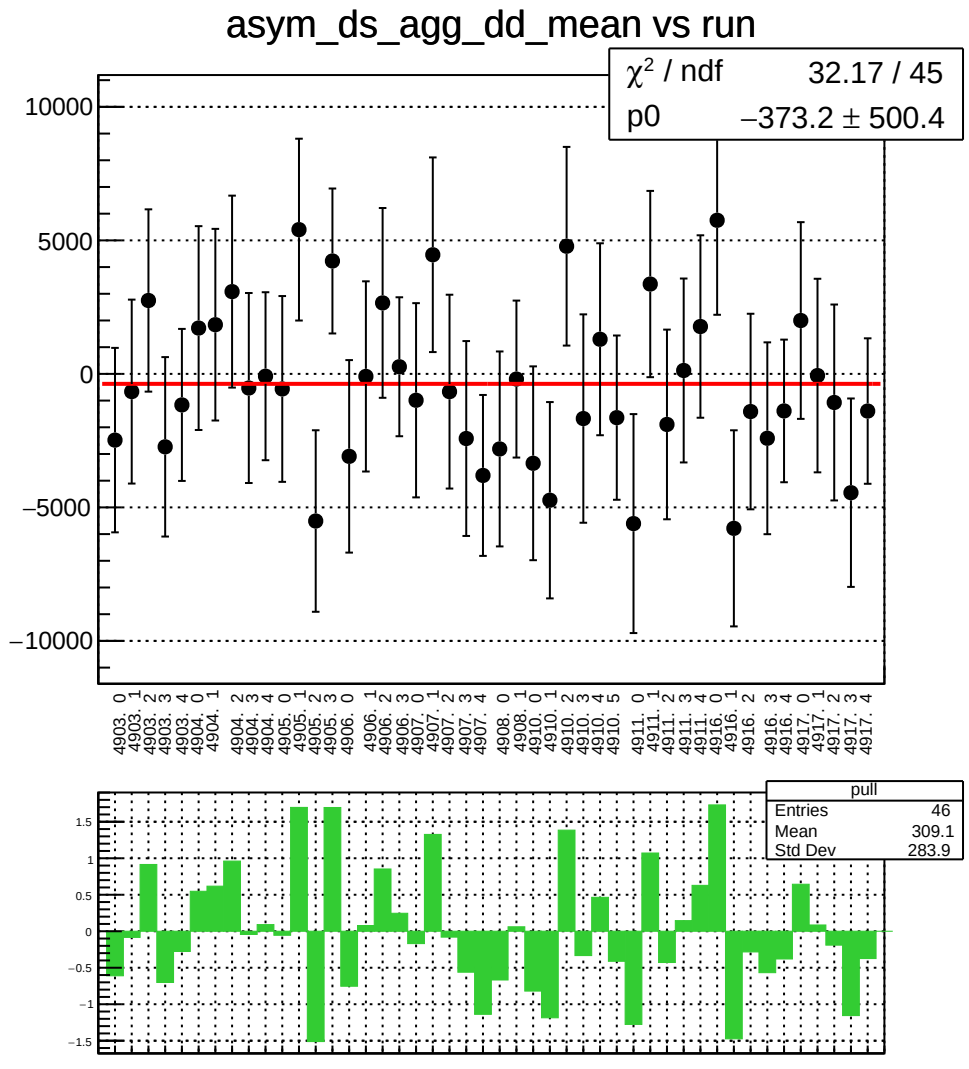
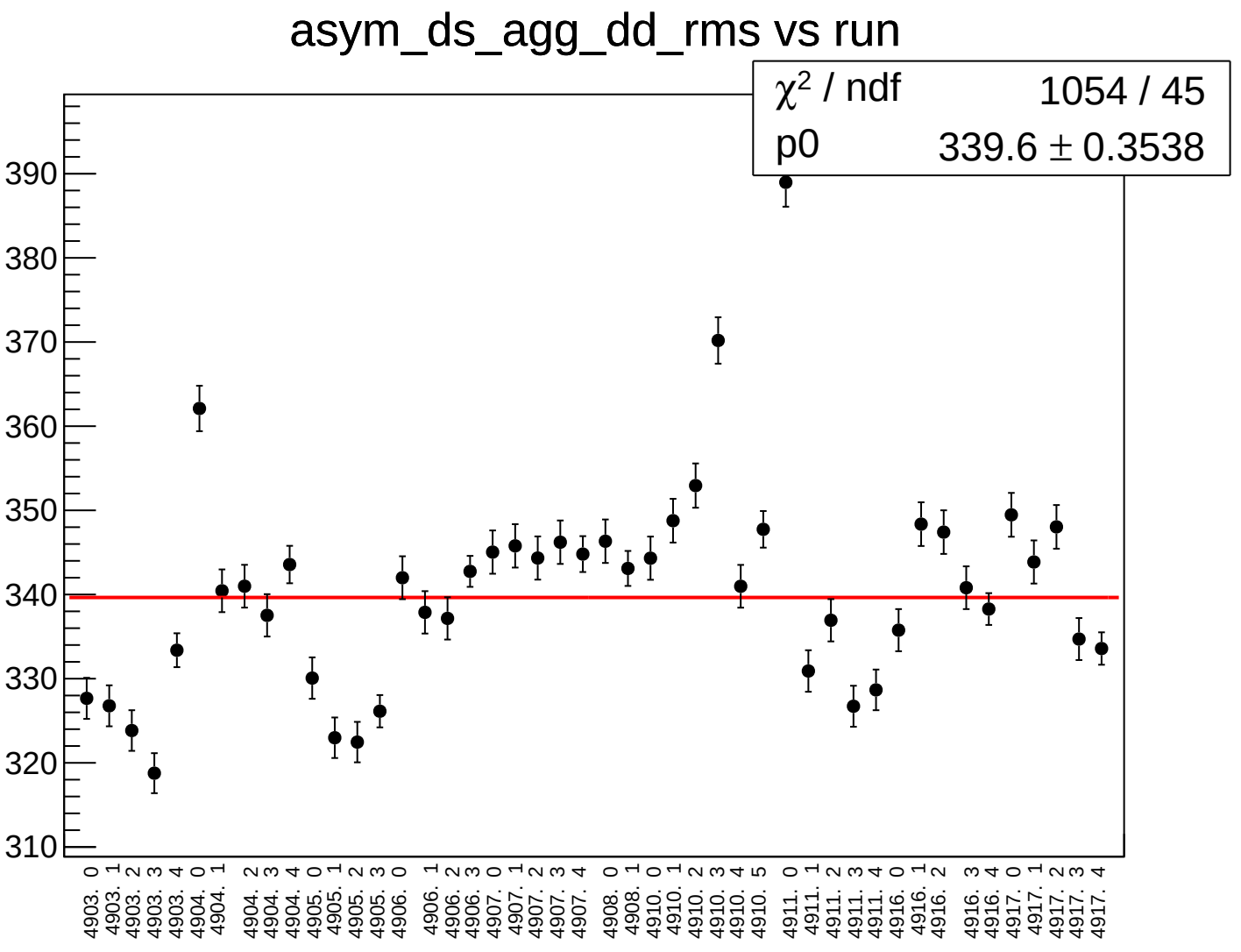
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

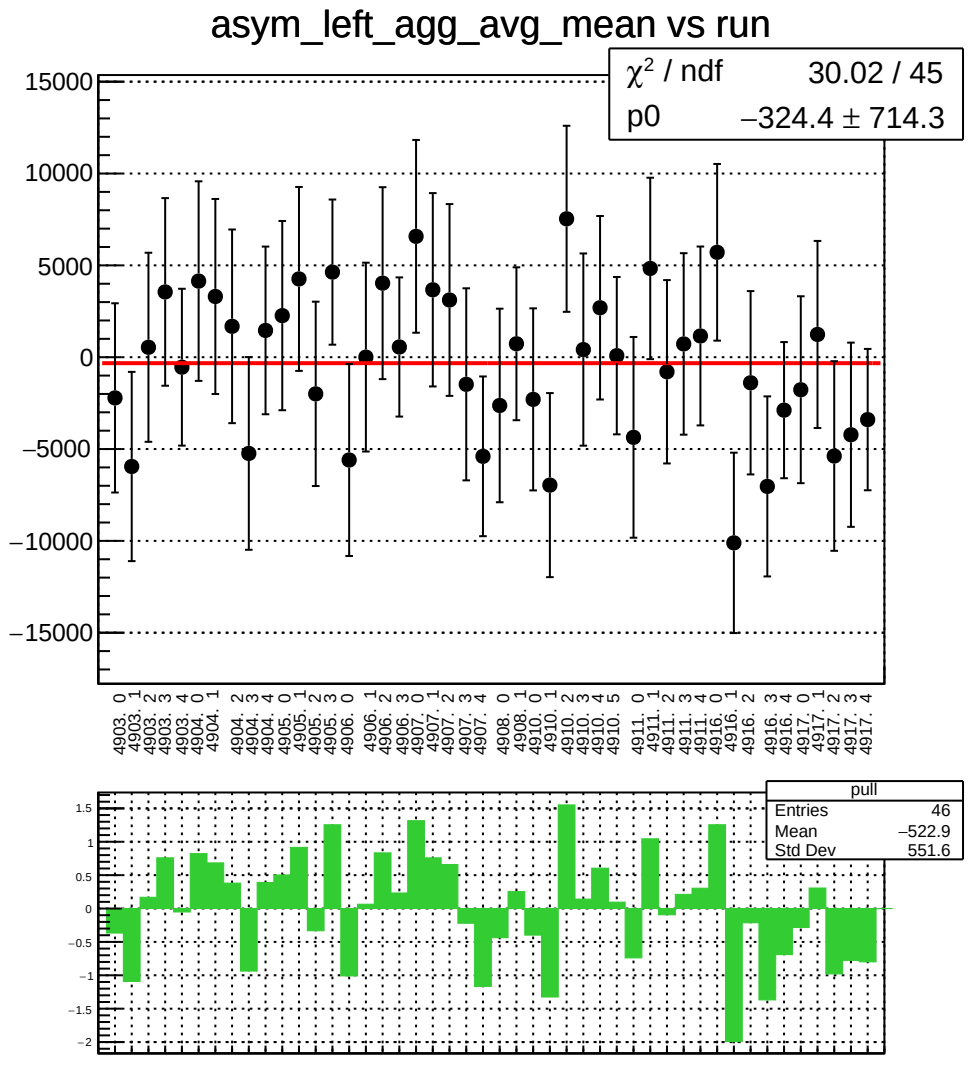

asym_ds_agg_av_mean vs run
χ² / ndf 34.7 / 45
p0 53.5 ± 426.7
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −261.1
Std Dev 292.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

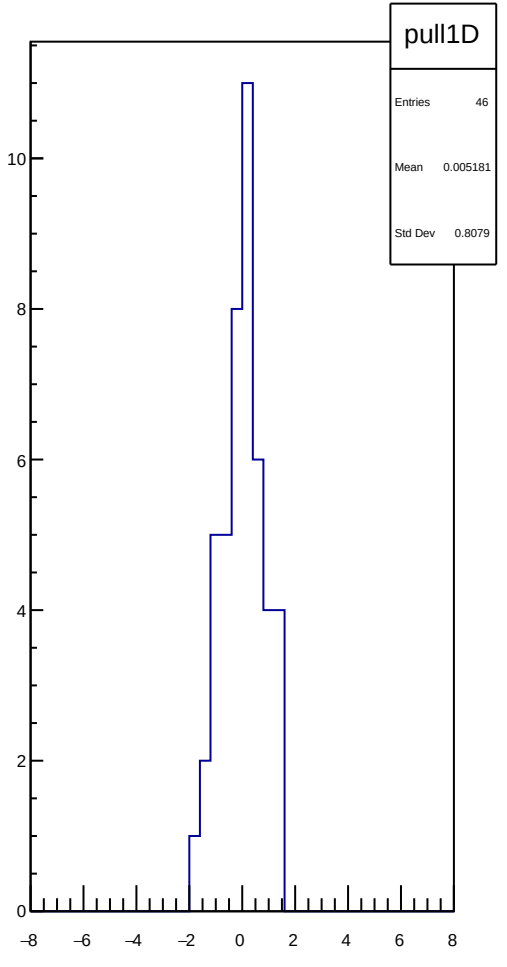

pull1D
Entries 46
Mean 0.009422
Std Dev 0.8685
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

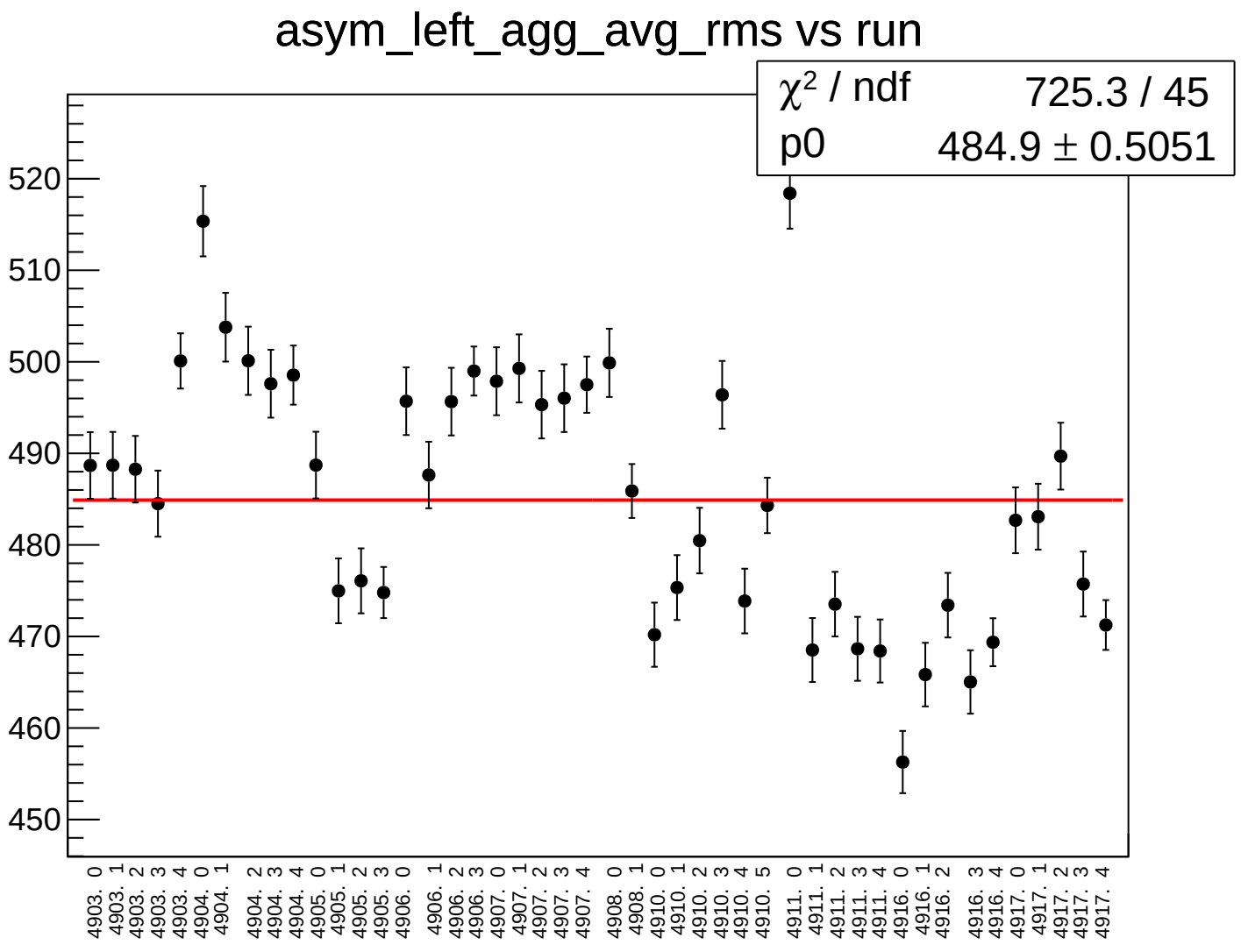

asym_ds_agg_av_rms vs run
χ² / ndf 2555 / 45
p0 289.4 ± 0.3017
320
310
300
290
280
270
260
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

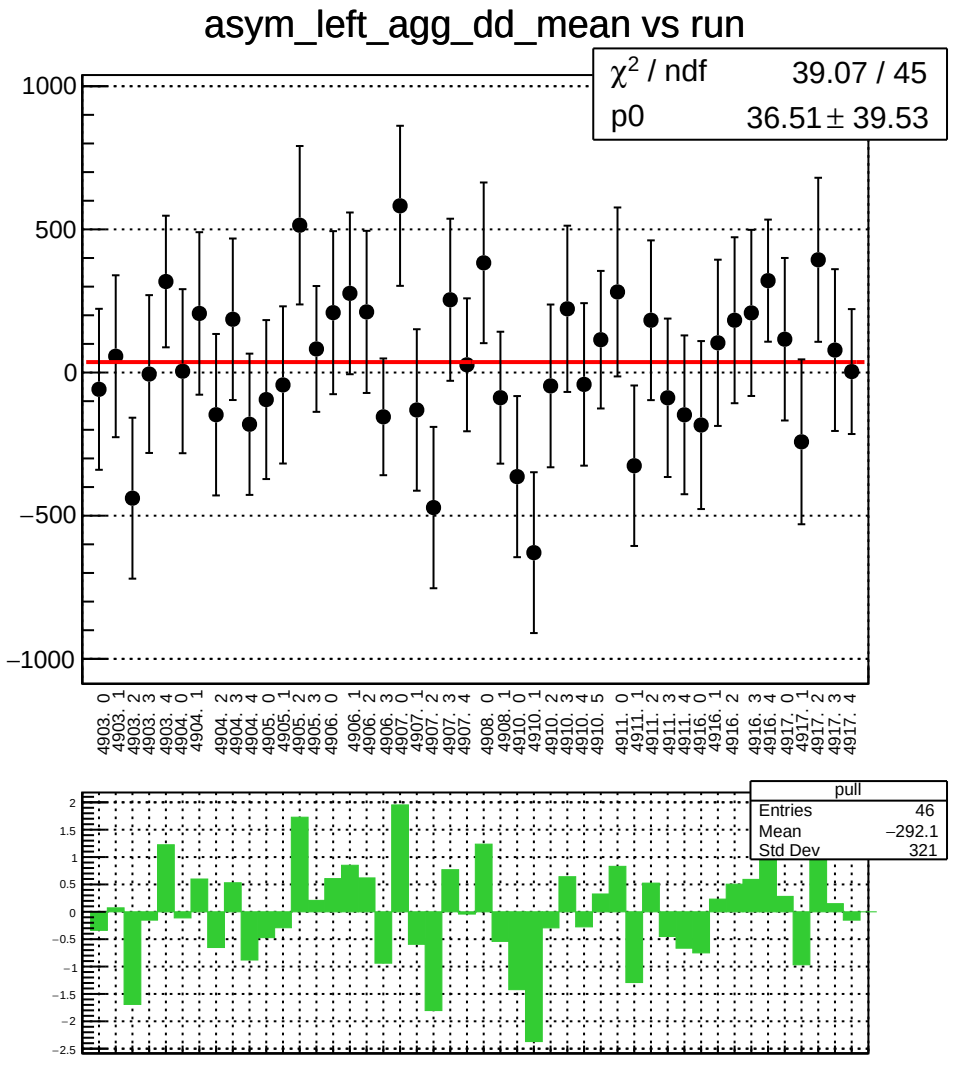

asym_ds_agg_dd_mean vs run
χ² / ndf 32.17 / 45
p0 −373.2 ± 500.4
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 309.1
Std Dev 283.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.006214
Std Dev 0.8362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

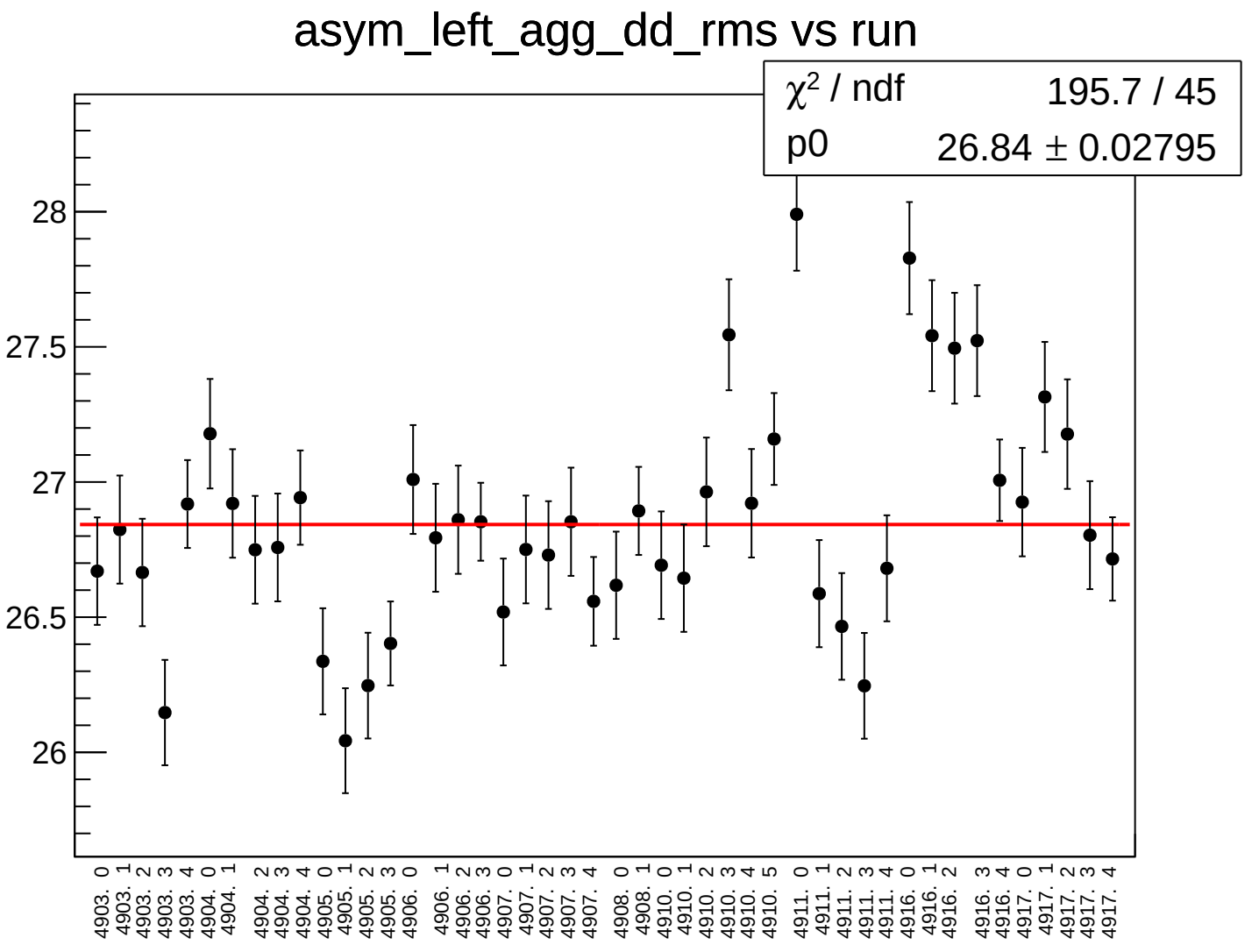

asym_ds_agg_dd_rms vs run
χ² / ndf 1054 / 45
p0 339.6 ± 0.3538
390
380
370
360
350
340
330
320
310
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

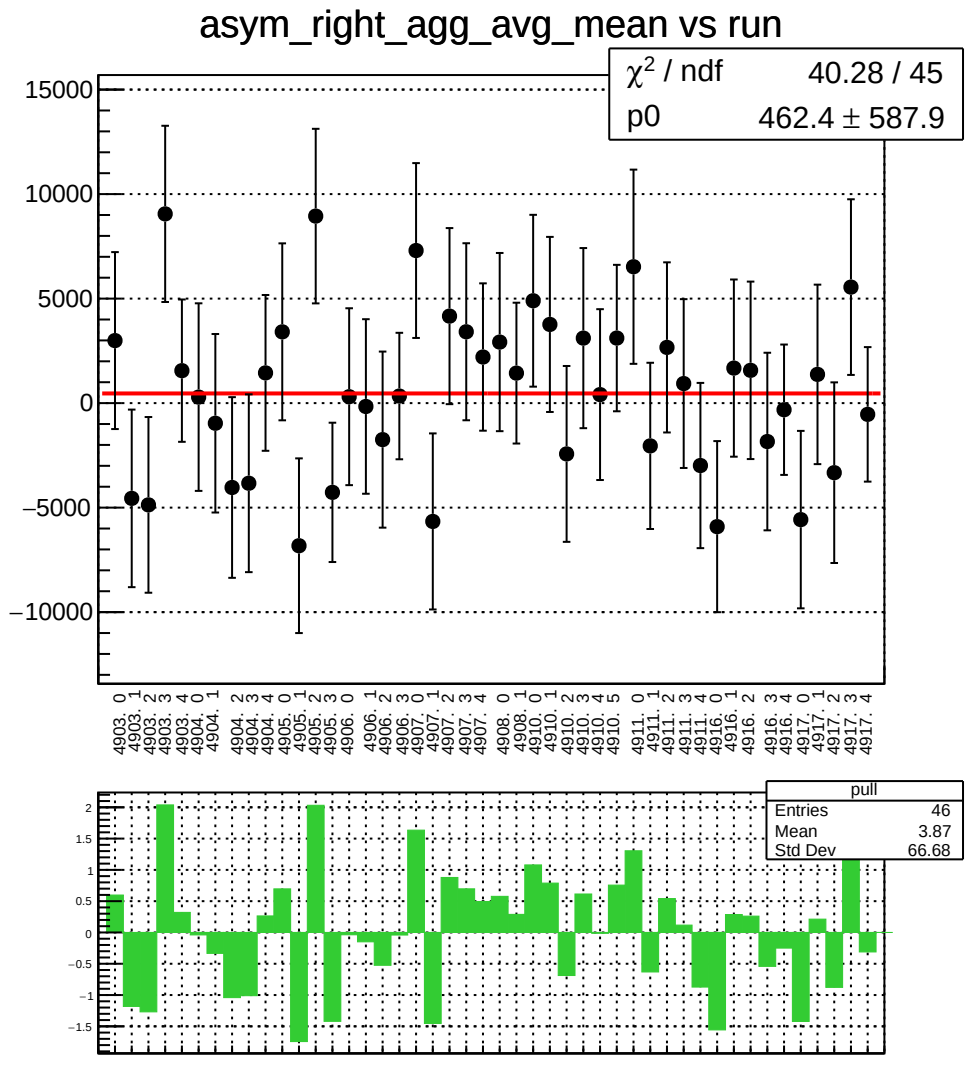

asym_left_agg_avg_mean vs run
χ² / ndf 30.02 / 45
p0 −324.4 ± 714.3
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −522.9
Std Dev 551.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

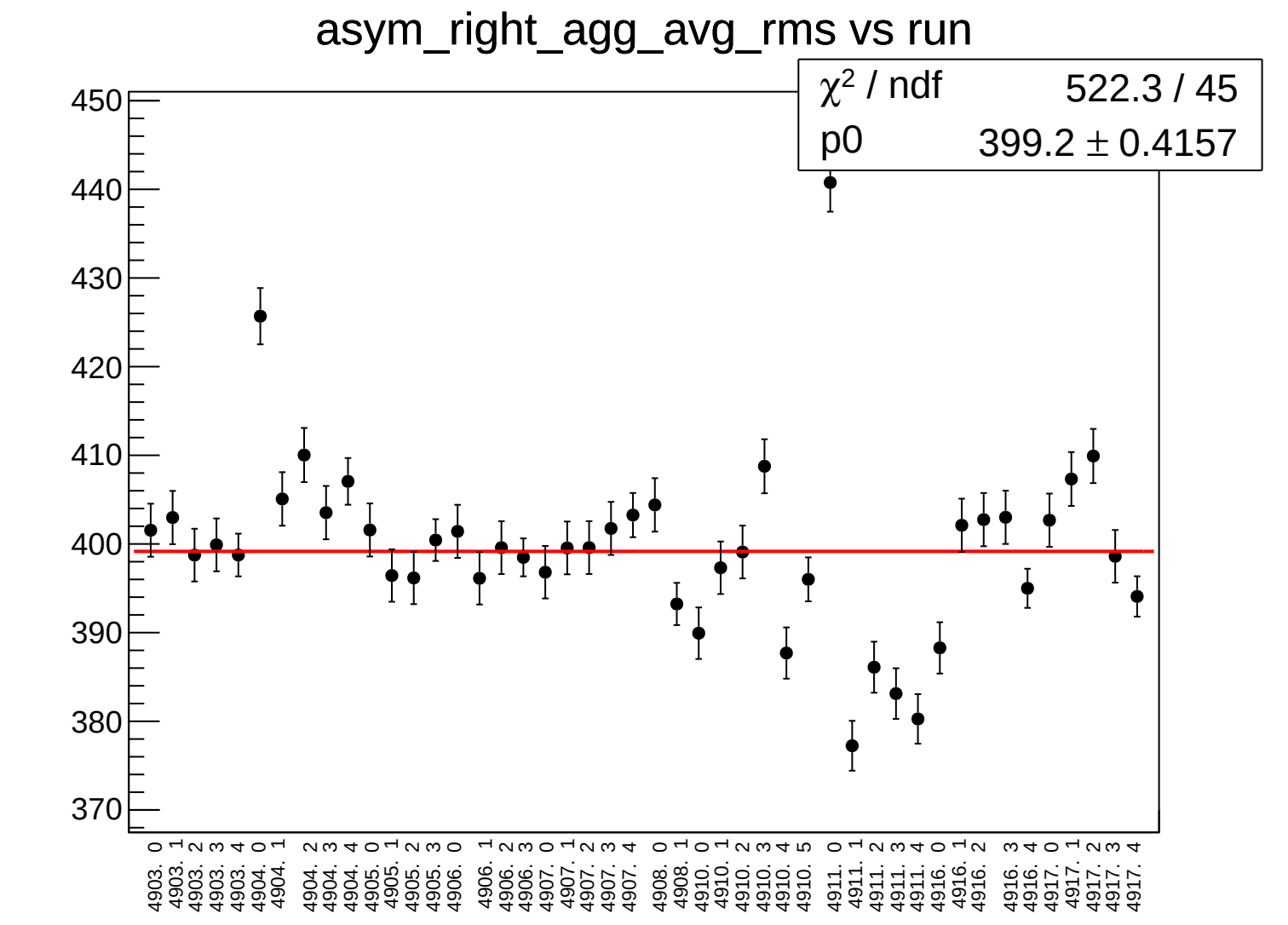

pull1D
Entries 46
Mean 0.005181
Std Dev 0.8079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

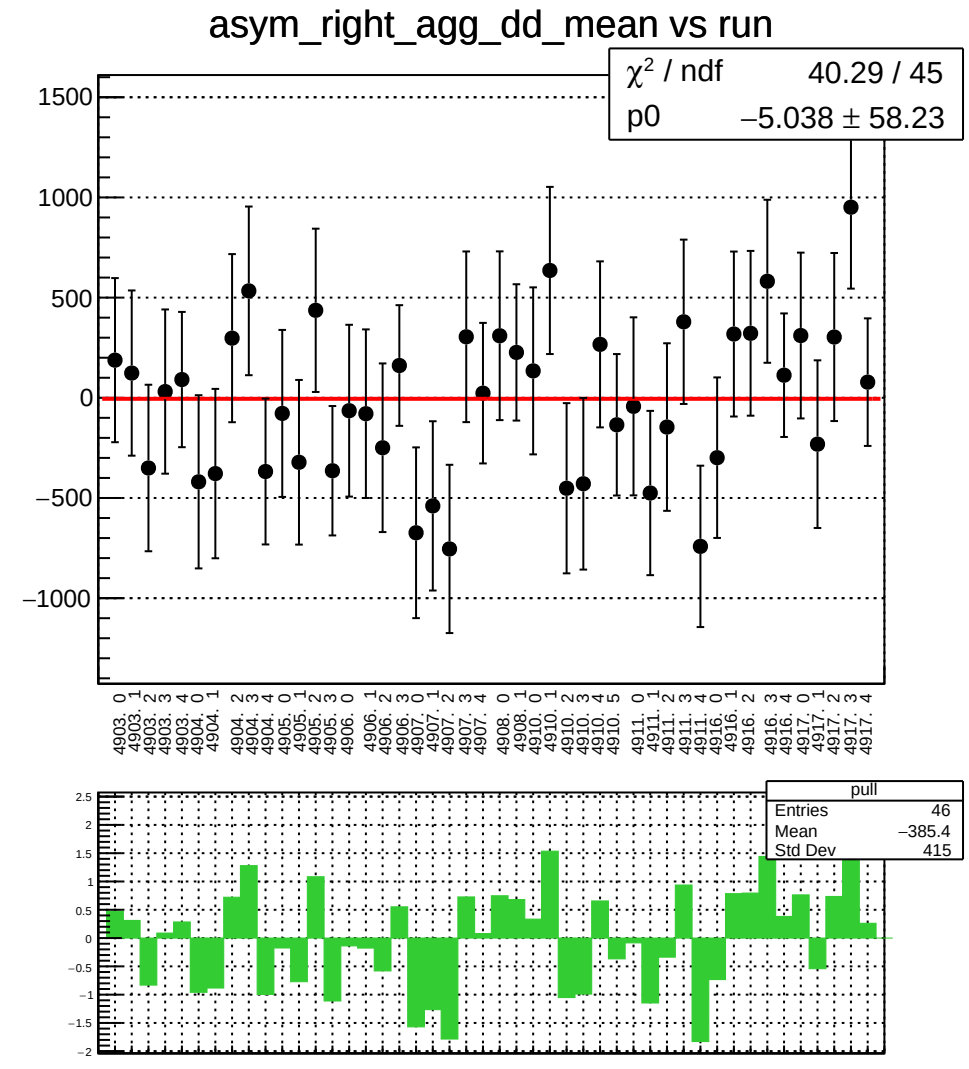

asym_left_agg_avg_rms vs run
χ² / ndf 725.3 / 45
p0 484.9 ± 0.5051
520
510
500
490
480
470
460
450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

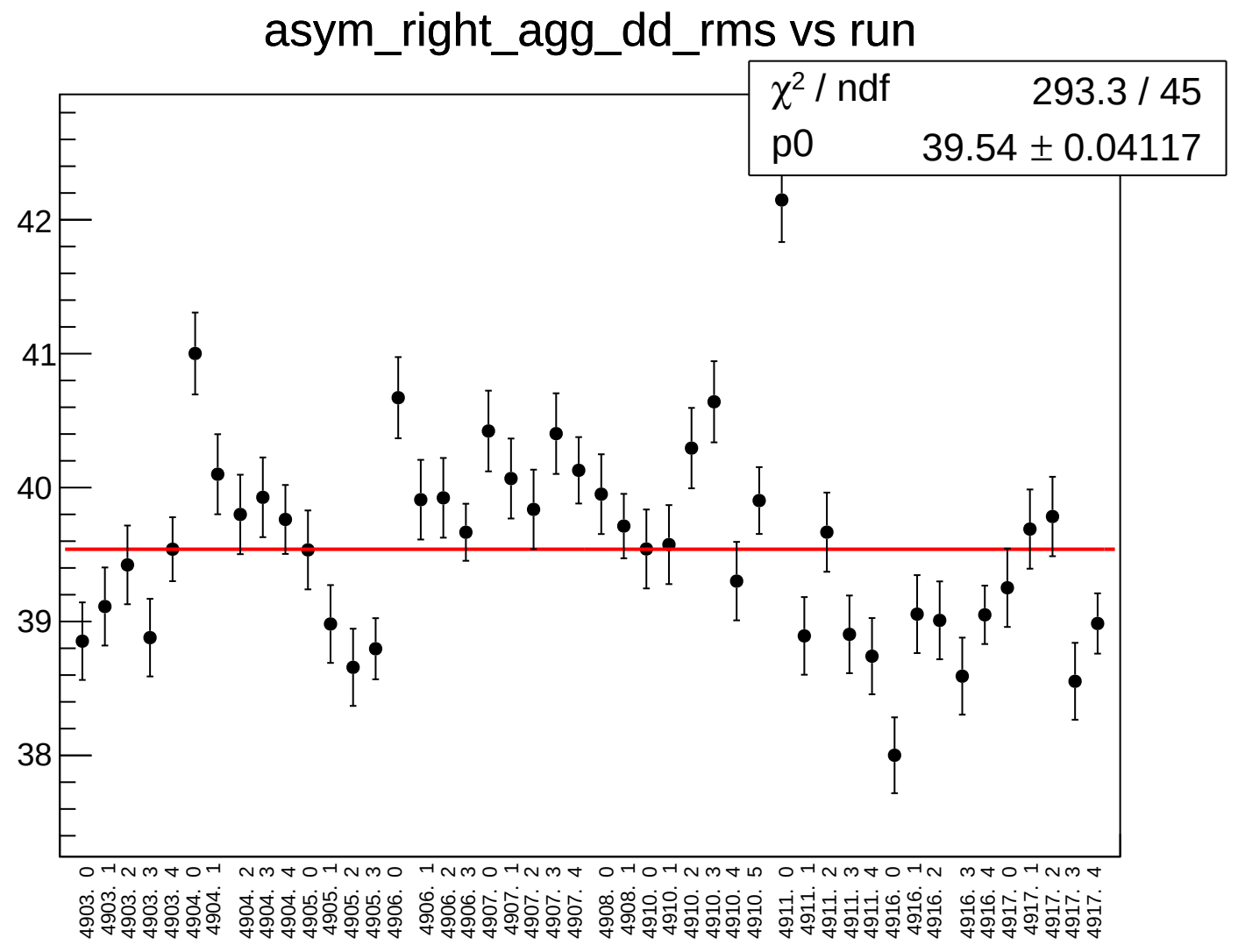

asym_left_agg_dd_mean vs run
χ² / ndf 39.07 / 45
p0 36.51 ± 39.53
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −292.1
Std Dev 321
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.001811
Std Dev 0.9217
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

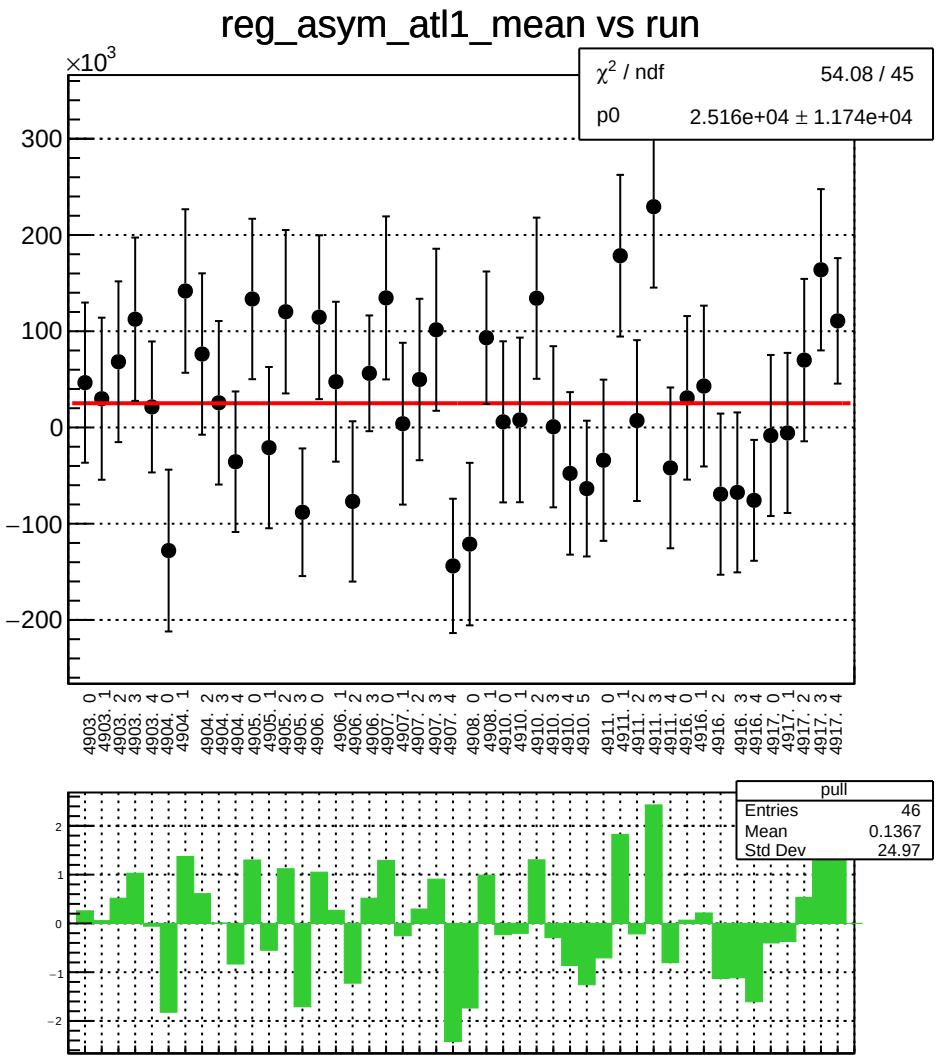

asym_left_agg_dd_rms vs run
χ² / ndf 195.7 / 45
p0 26.84 ± 0.02795
28
27.5
27
26.5
26
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

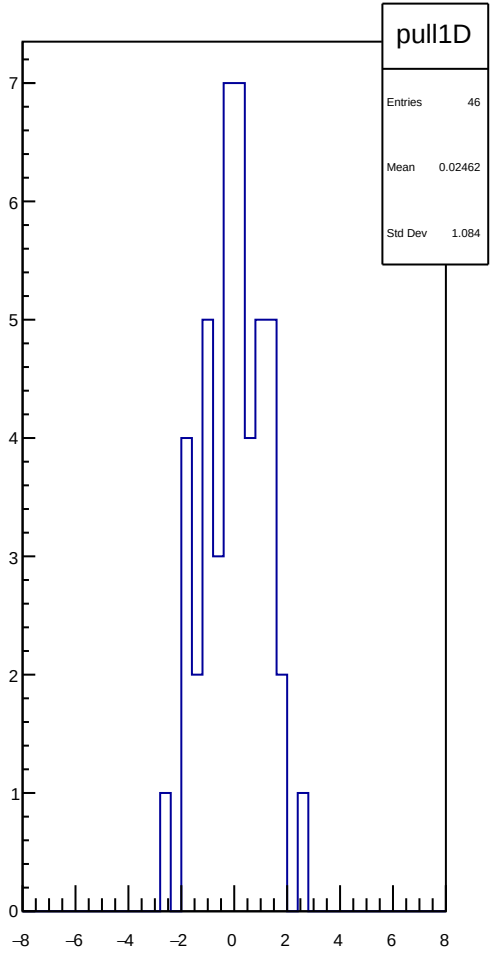

asym_right_agg_avg_mean vs run
χ² / ndf 40.28 / 45
p0 462.4 ± 587.9
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 3.87
Std Dev 66.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006202
Std Dev 0.9358
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

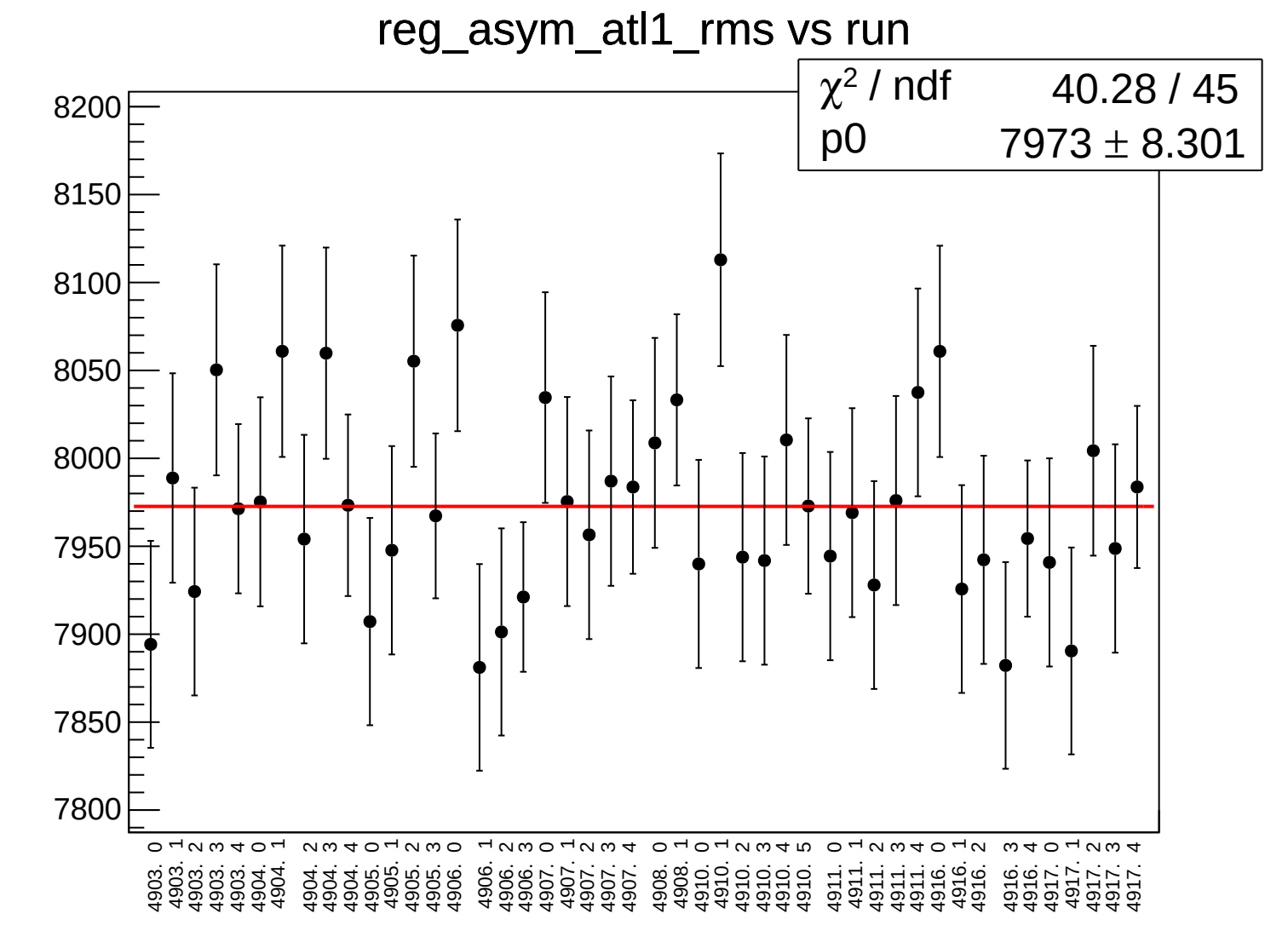

asym_right_agg_avg_rms vs run
χ² / ndf 522.3 / 45
p0 399.2 ± 0.4157
450
440
430
420
410
400
390
380
370
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

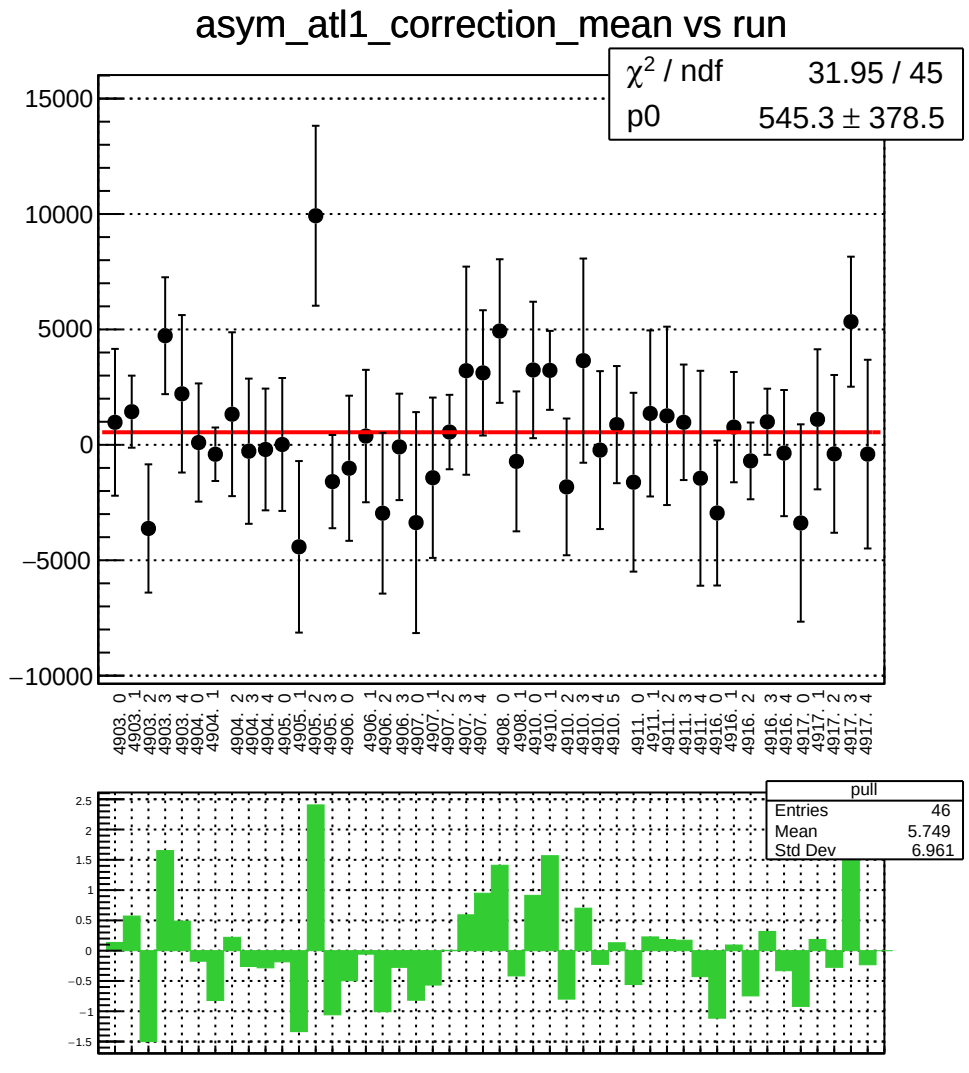

asym_right_agg_dd_mean vs run
χ² / ndf 40.29 / 45
p0 −5.038 ± 58.23
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −385.4
Std Dev 415
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.006771
Std Dev 0.9358
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

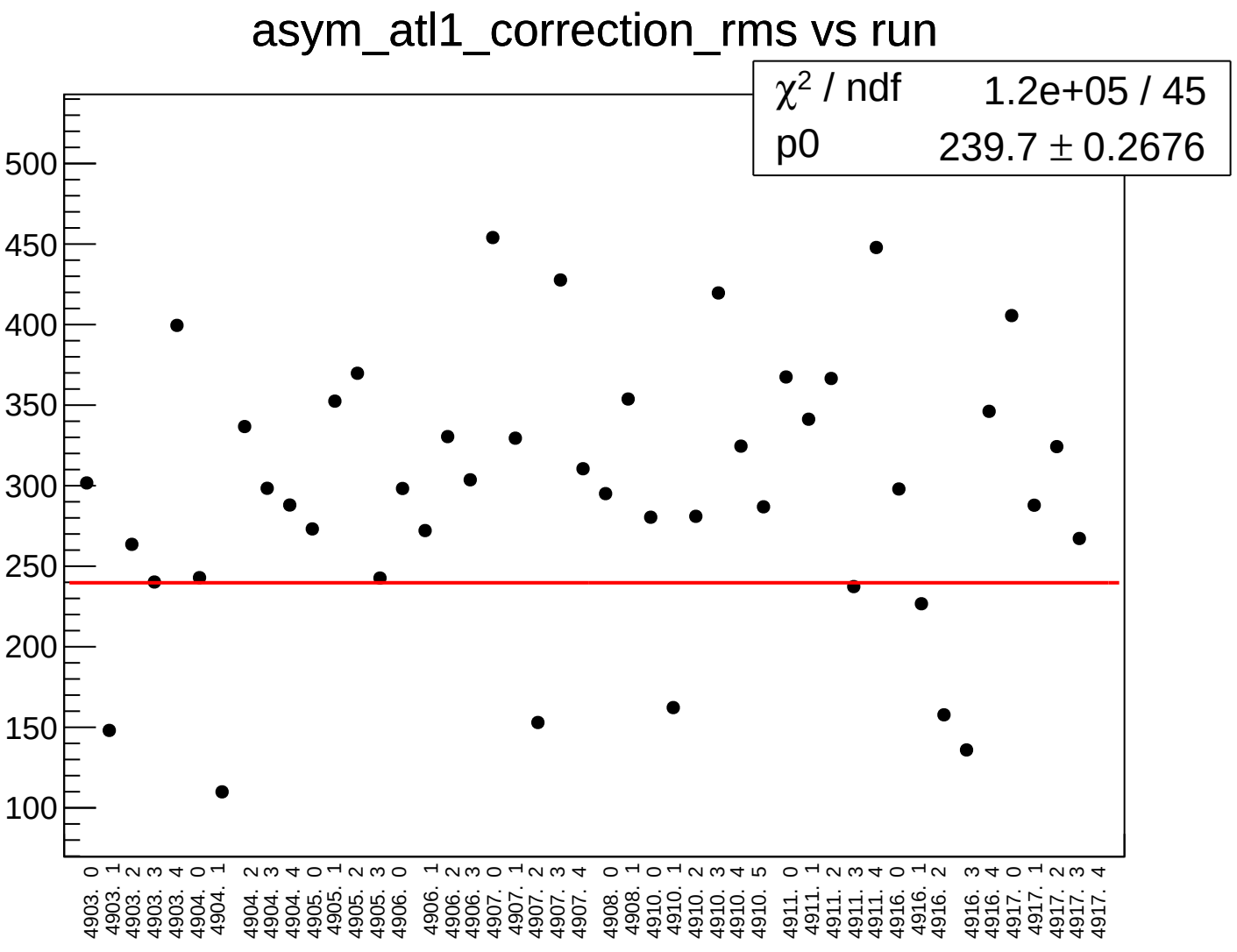

asym_right_agg_dd_rms vs run
χ² / ndf 293.3 / 45
p0 39.54 ± 0.04117
42
41
40
39
38
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

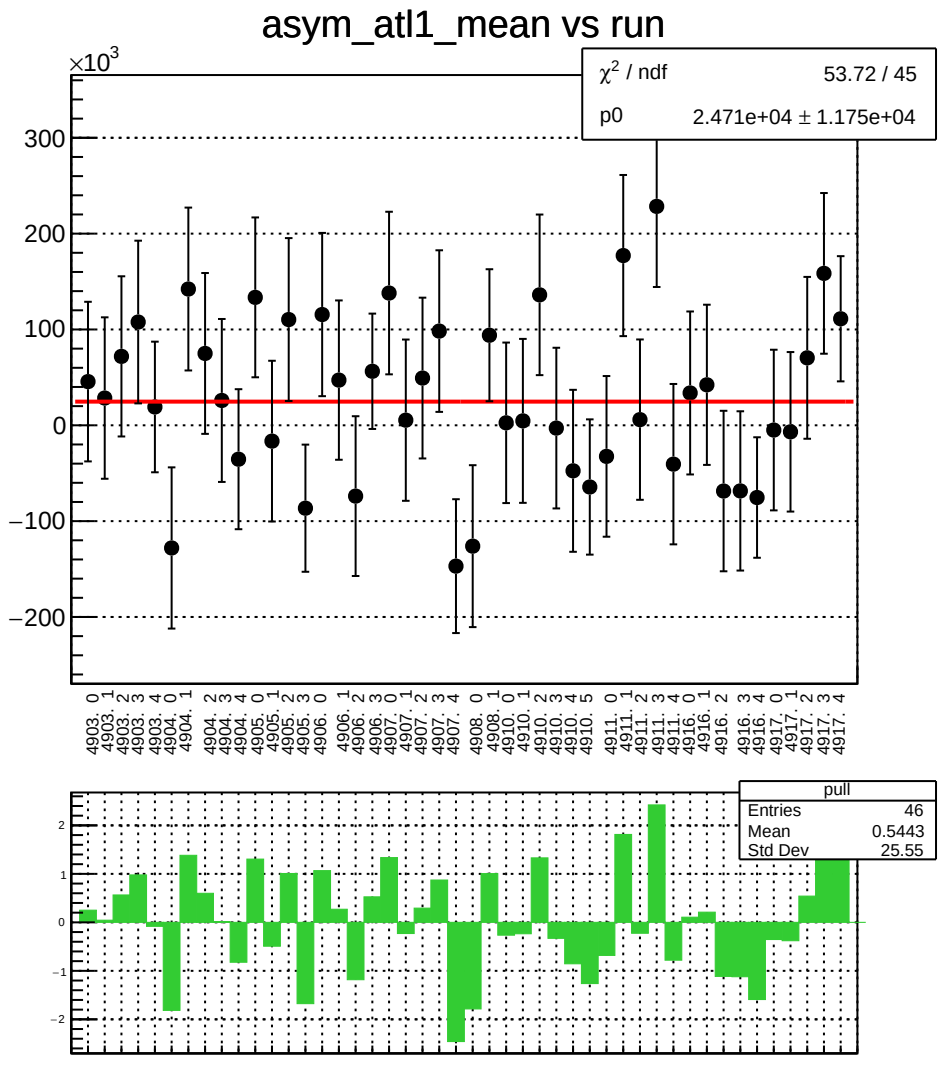

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 54.08 / 45
p0 2.516e+04 ± 1.174e+04
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 0.1367
Std Dev 24.97
2
1
0
−1
−2

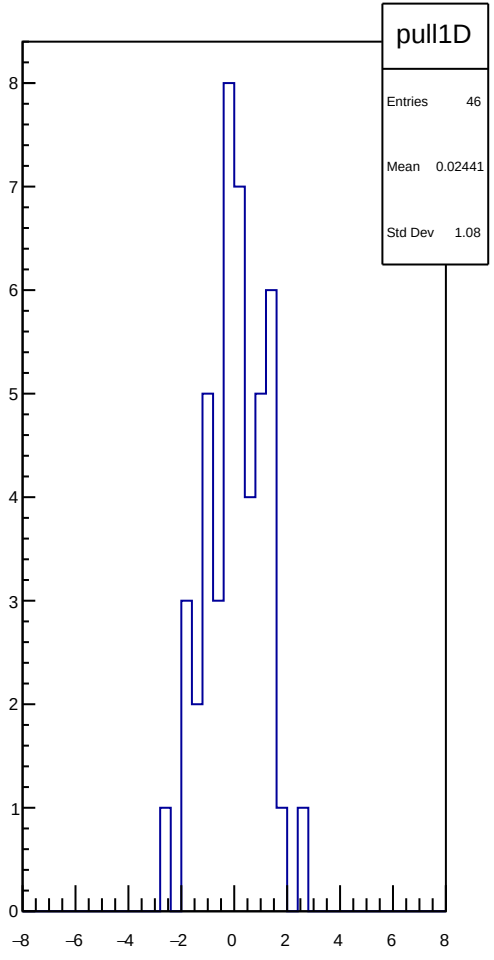

pull1D
Entries 46
Mean 0.02462
Std Dev 1.084
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

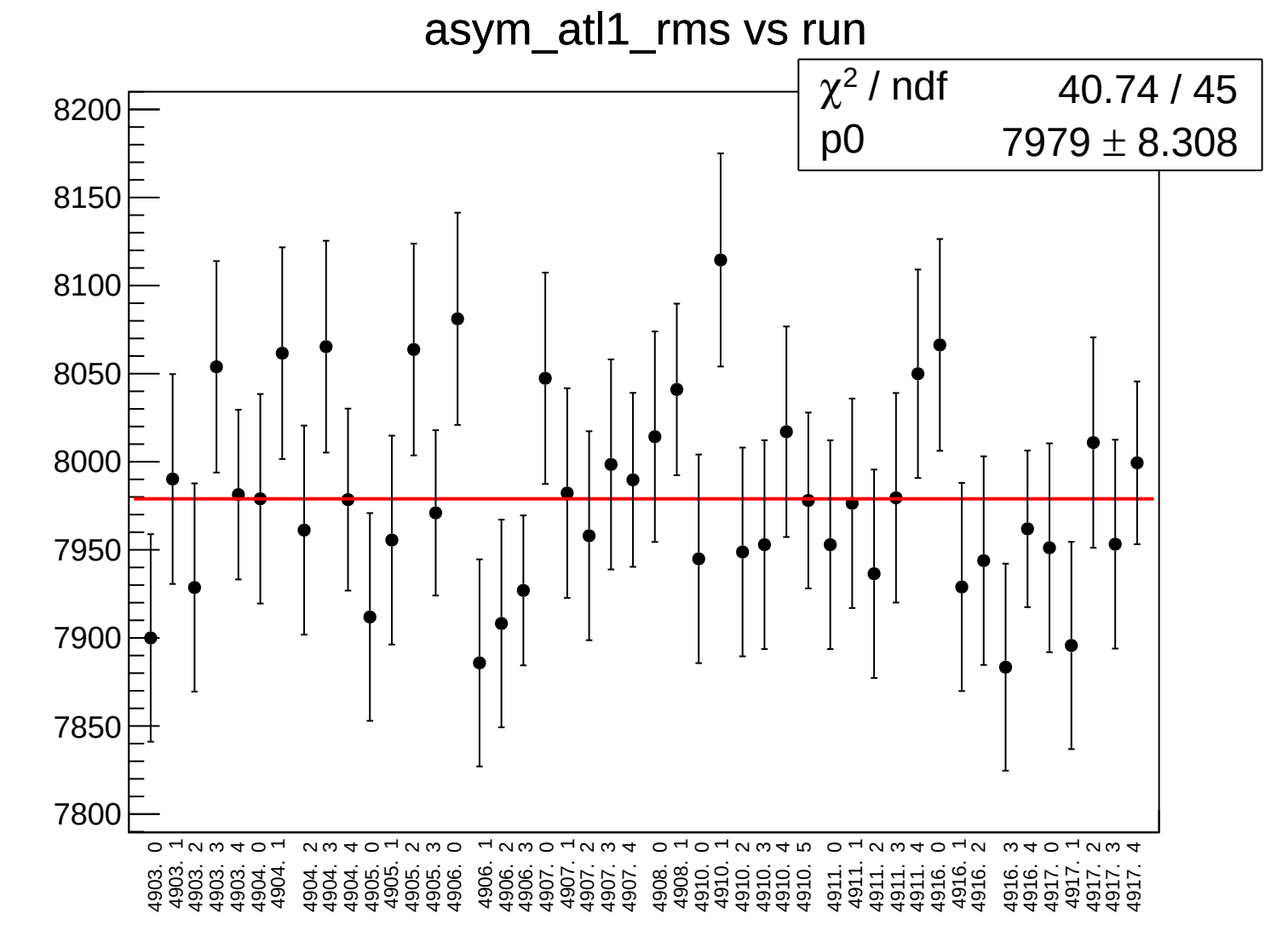

reg_asym_atl1_rms vs run
χ² / ndf 40.28 / 45
p0 7973 ± 8.301
8200
8150
8100
8050
8000
7950
7900
7850
7800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

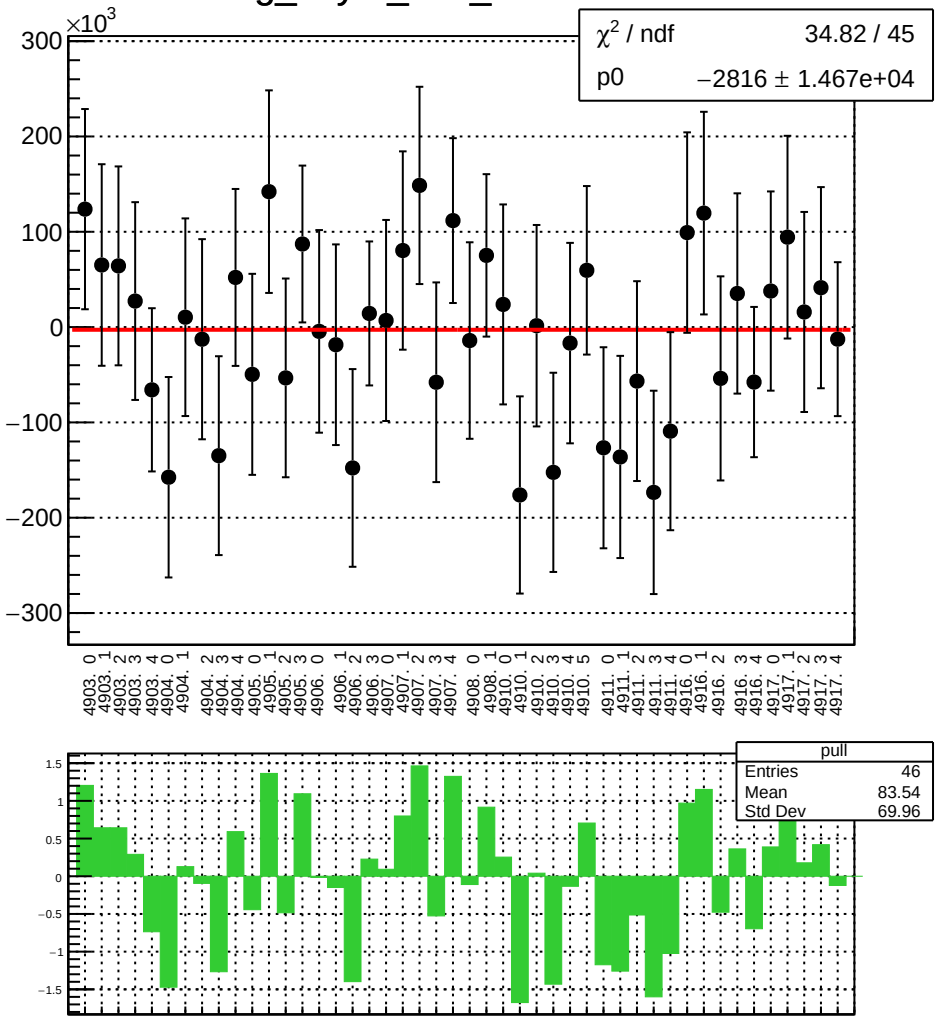

asym_atl1_correction_mean vs run
χ² / ndf 31.95 / 45
p0 545.3 ± 378.5
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 5.749
Std Dev 6.961
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.0057
Std Dev 0.8334
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

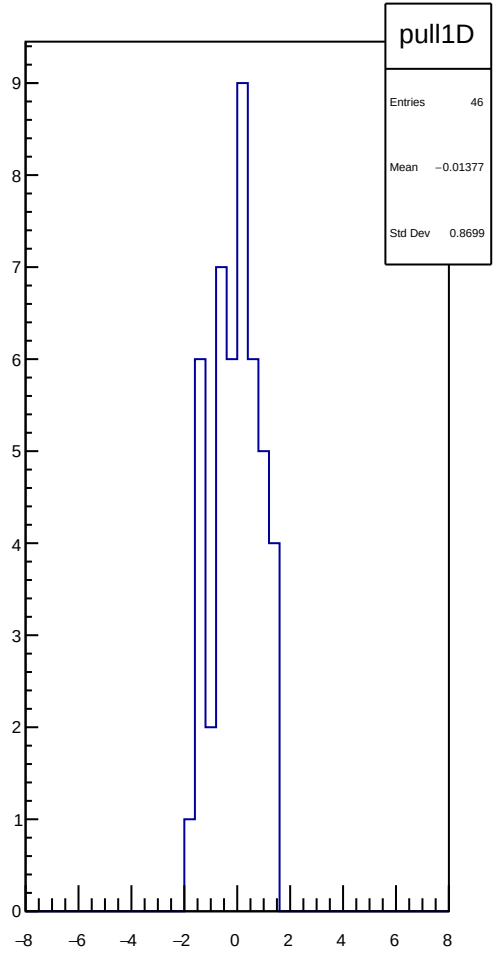

asym_atl1_correction_rms vs run
χ² / ndf 1.2e+05 / 45
p0 239.7 ± 0.2676
500
450
400
350
300
250
200
150
100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

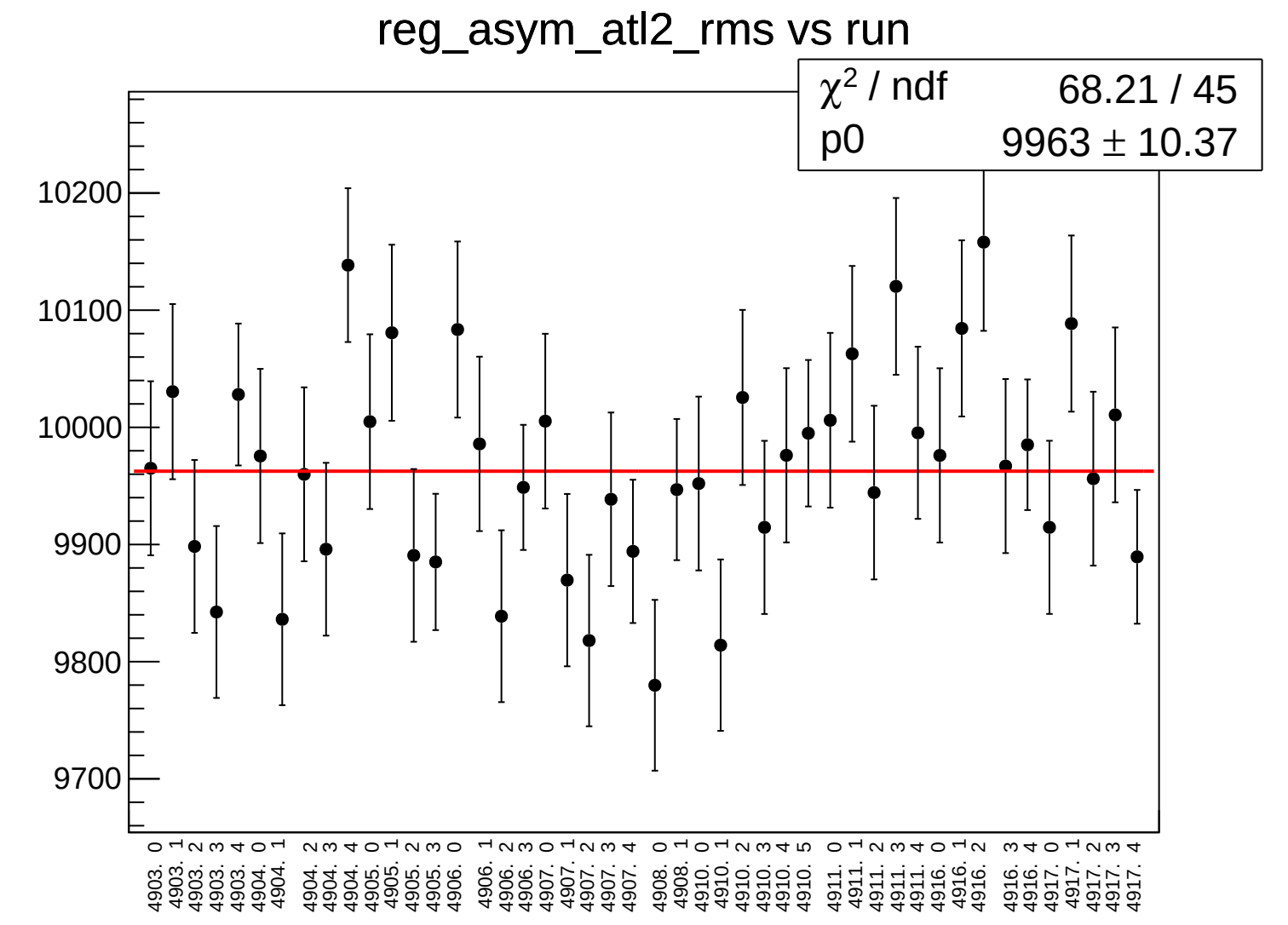

asym_atl1_mean vs run
×10^3
χ² / ndf 53.72 / 45
p0 2.471e+04 ± 1.175e+04
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 0.5443
Std Dev 25.55
2
1
0
−1
−2

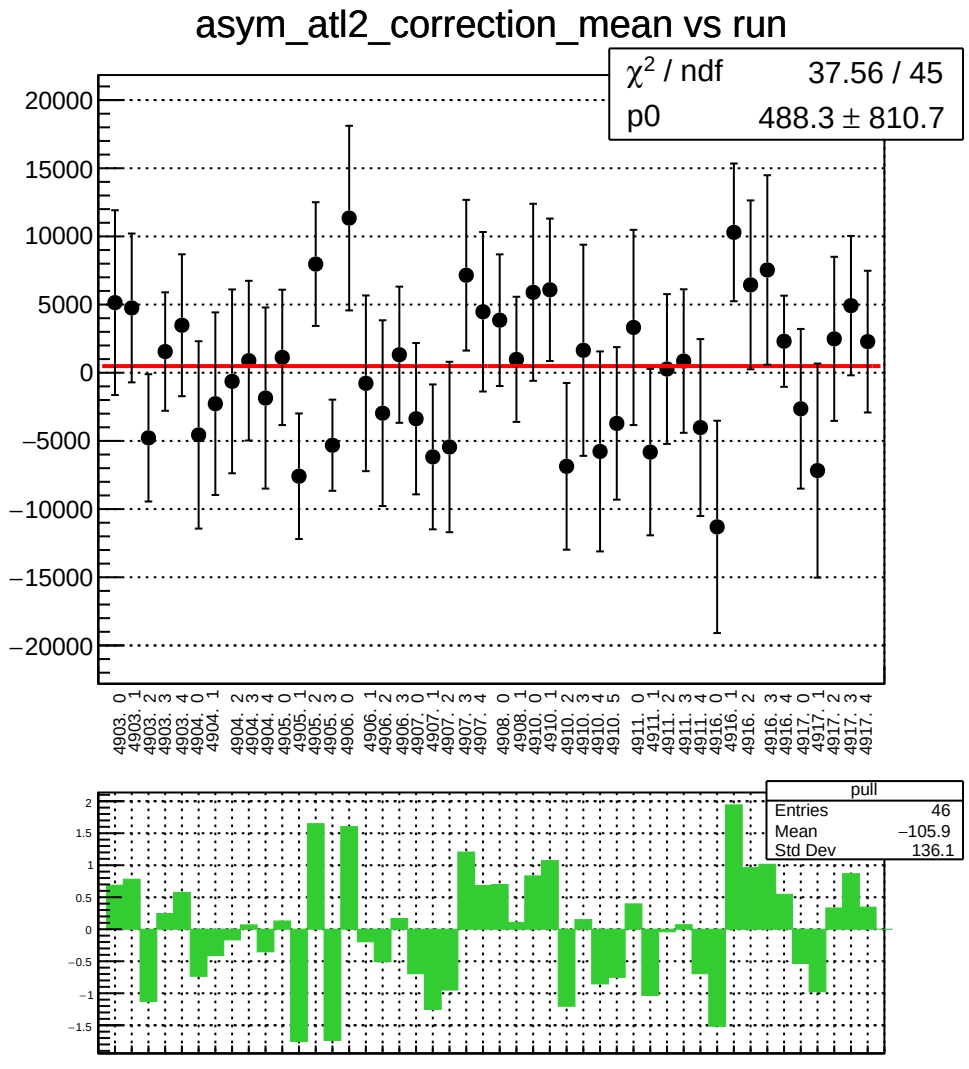

pull1D
Entries 46
Mean 0.02441
Std Dev 1.08
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

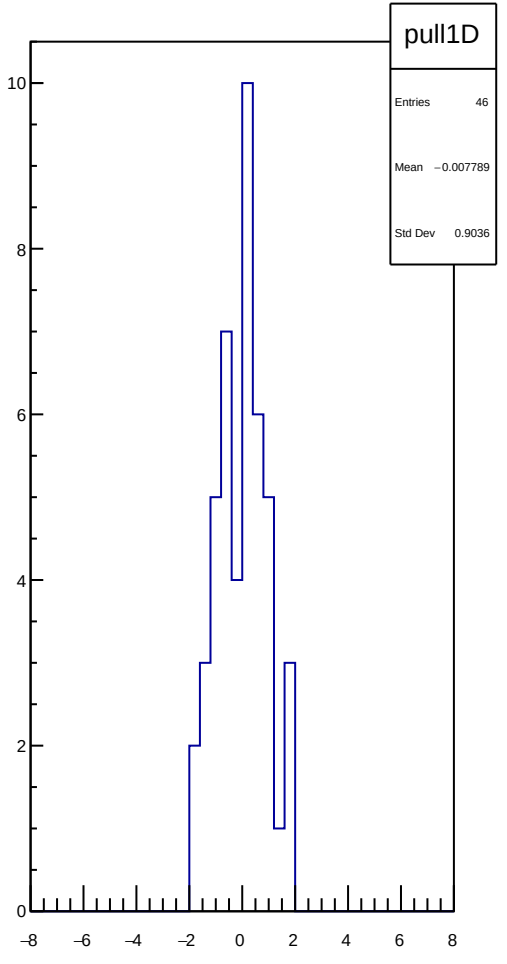

asym_atl1_rms vs run
χ² / ndf 40.74 / 45
p0 7979 ± 8.308
8200
8150
8100
8050
8000
7950
7900
7850
7800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

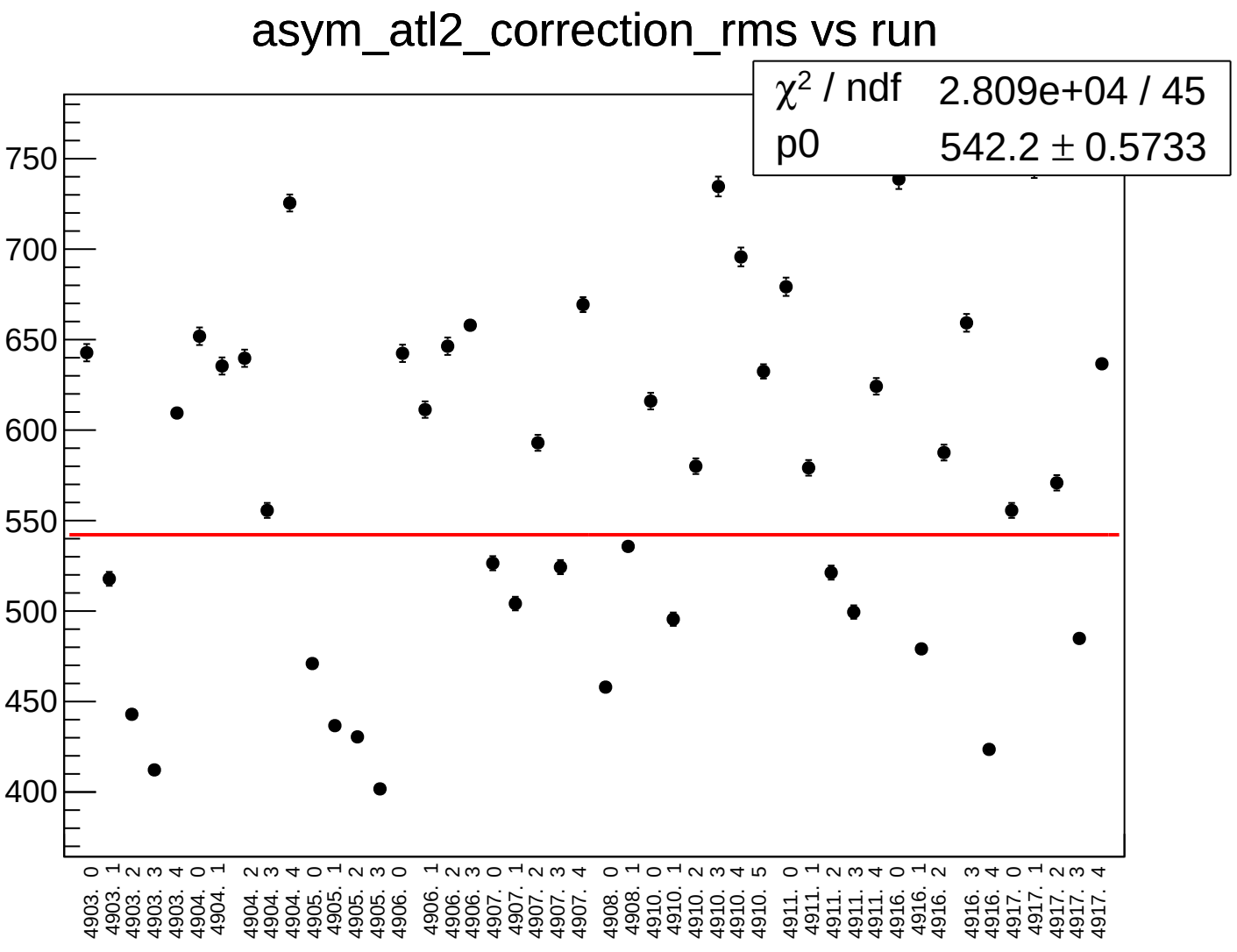

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 34.82 / 45
p0 −2816 ± 1.467e+04
pull
Entries 46
Mean 83.54
Std Dev 69.96

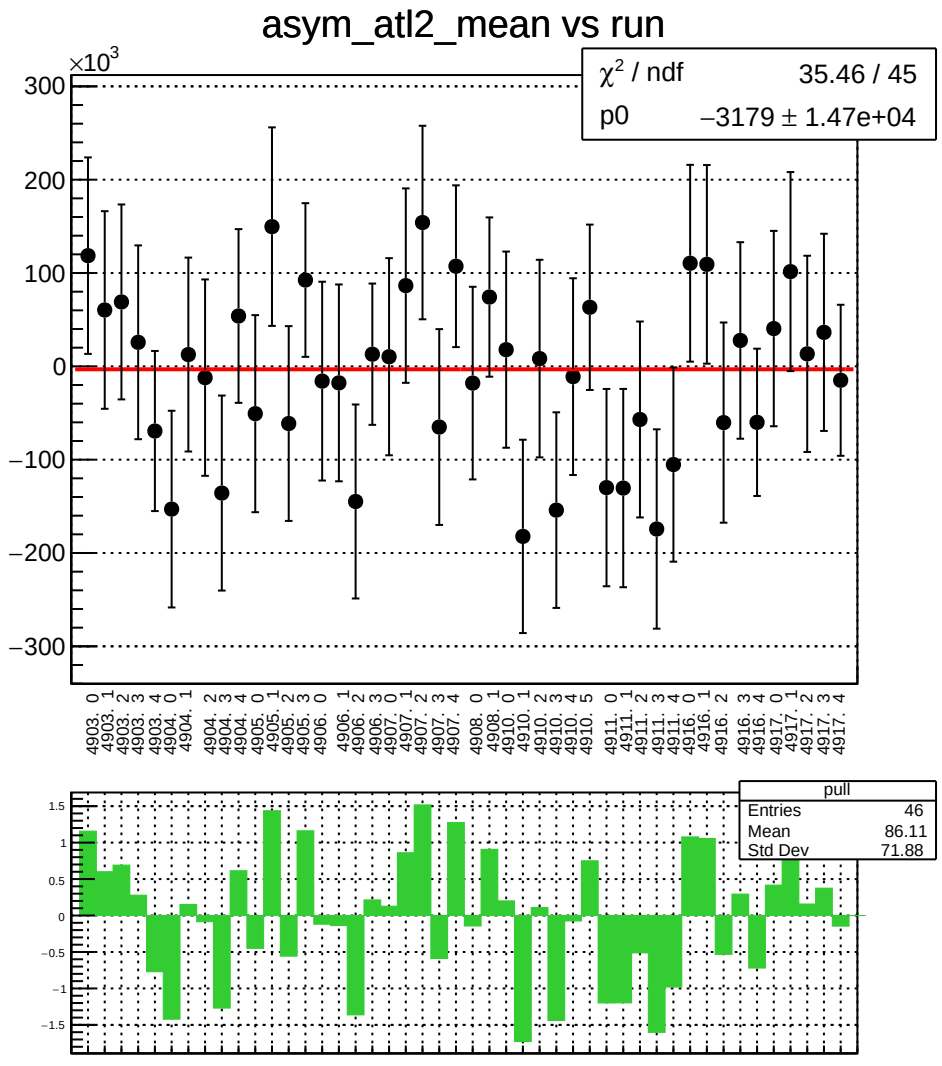

pull1D
Entries 46
Mean −0.01377
Std Dev 0.8699

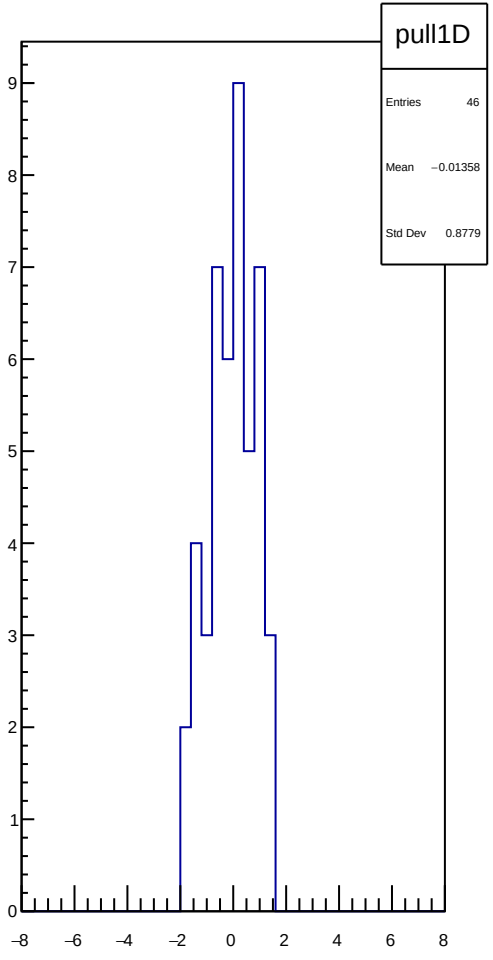

reg_asym_atl2_rms vs run
χ² / ndf 68.21 / 45
p0 9963 ± 10.37
10200
10100
10000
9900
9800
9700
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

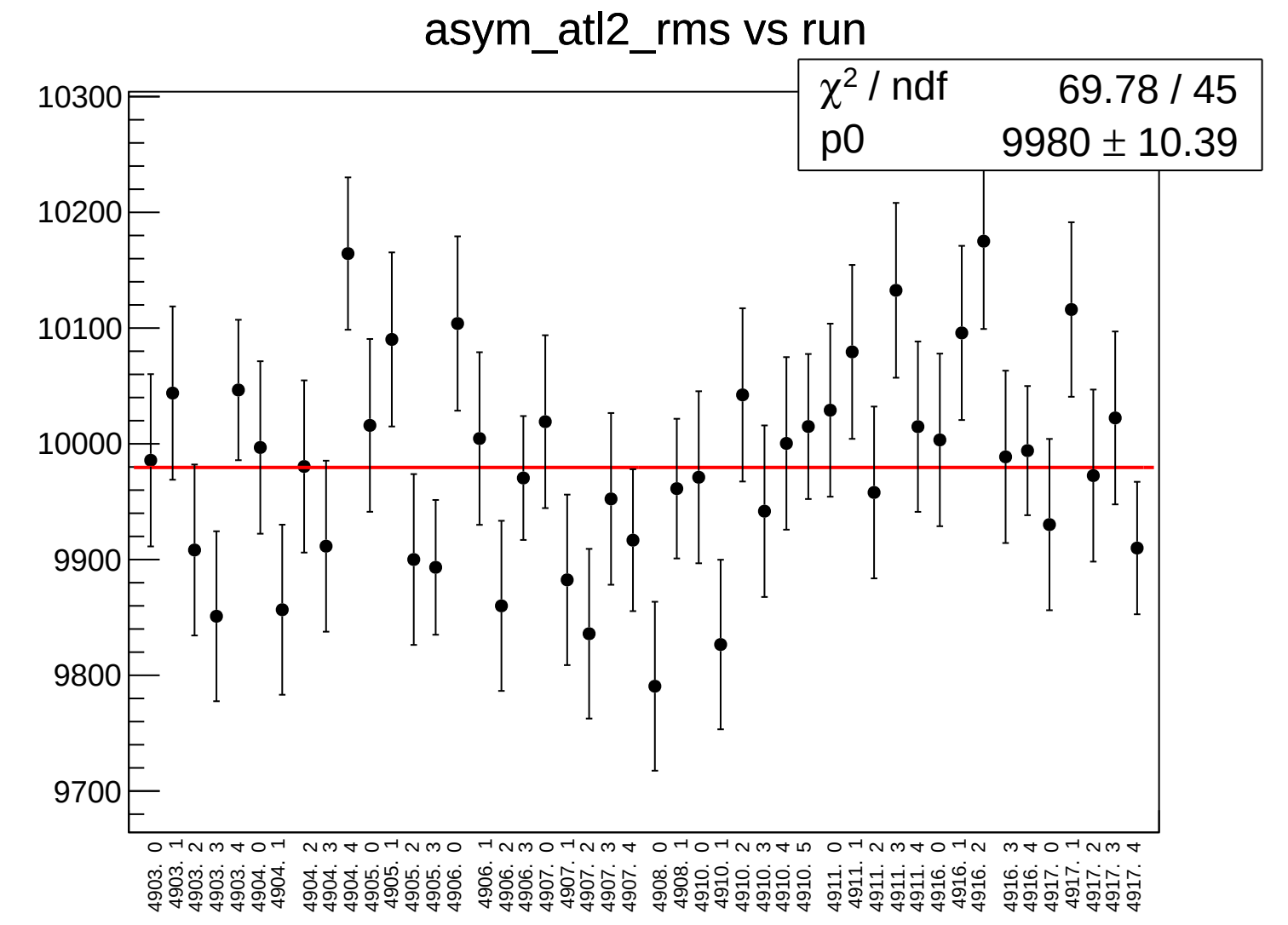

asym_atl2_correction_mean vs run
χ^2 / ndf 37.56 / 45
p0 488.3 ± 810.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −105.9
Std Dev 136.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

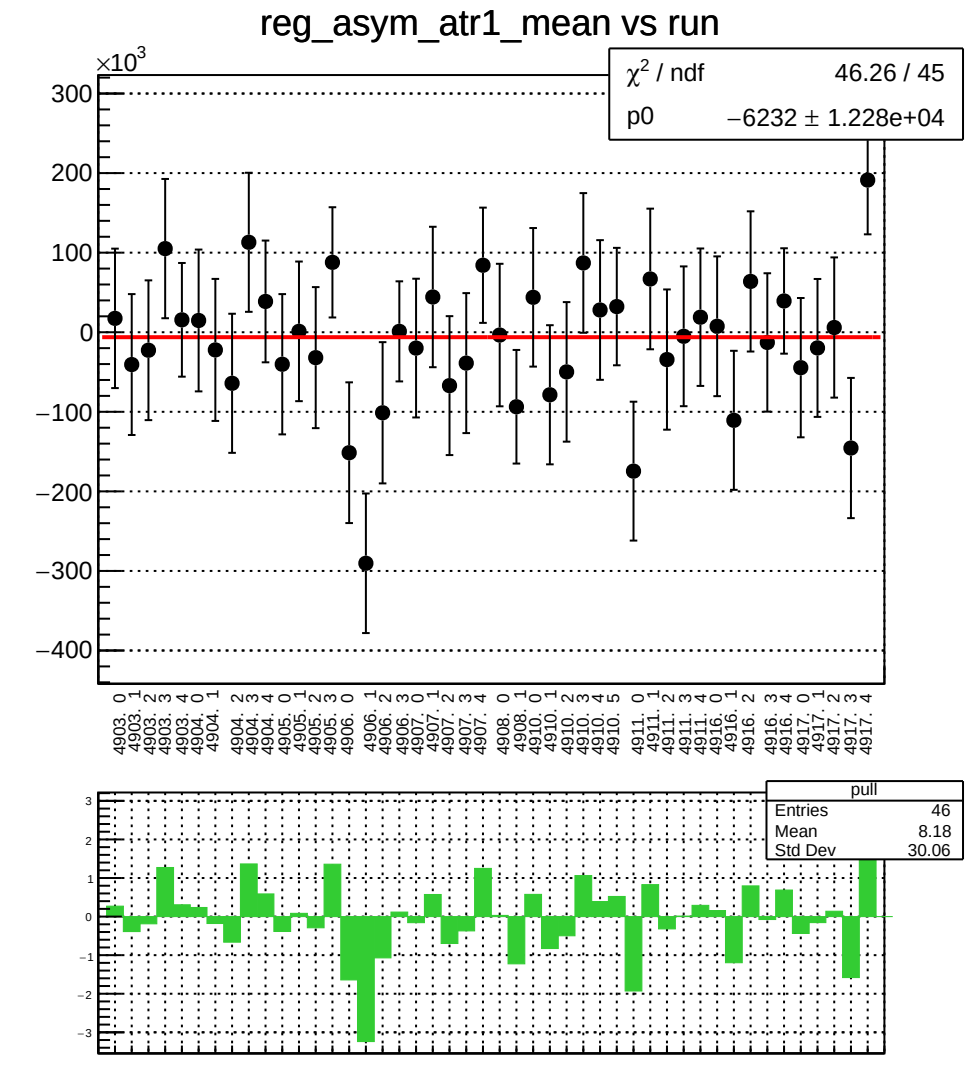

pull1D
Entries 46
Mean −0.007789
Std Dev 0.9036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

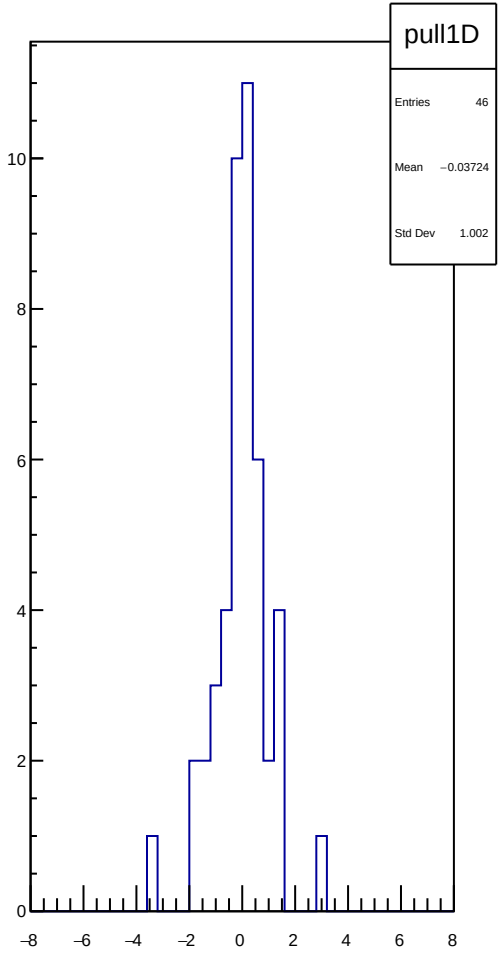

asym_atl2_correction_rms vs run
χ² / ndf 2.809e+04 / 45
p0 542.2 ± 0.5733
750
700
650
600
550
500
450
400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

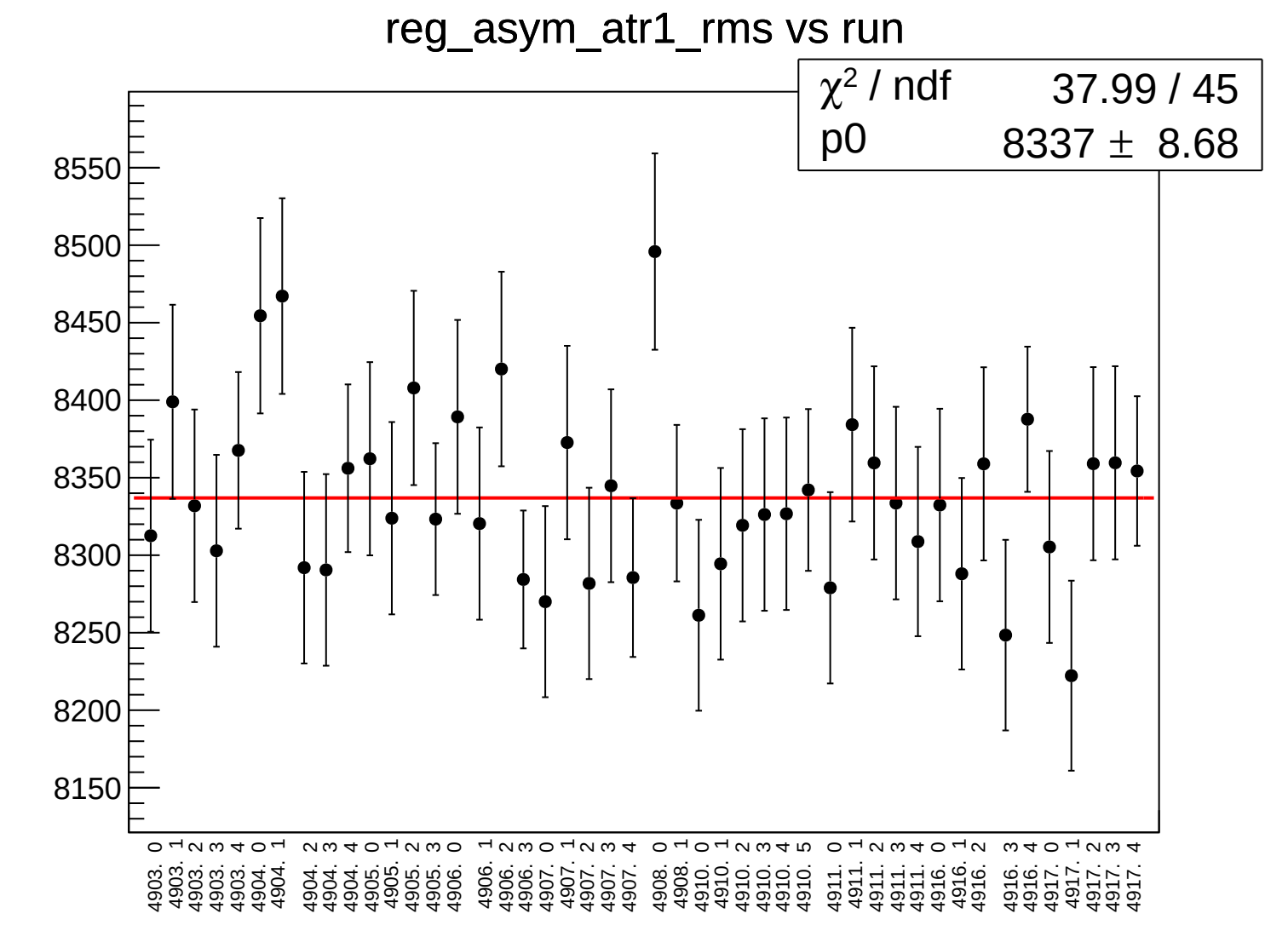

asym_atl2_mean vs run
×10^3
χ² / ndf 35.46 / 45
p0 −3179 ± 1.47e+04
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 86.11
Std Dev 71.88
1.5
1
0.5
0
−0.5
−1
−1.5

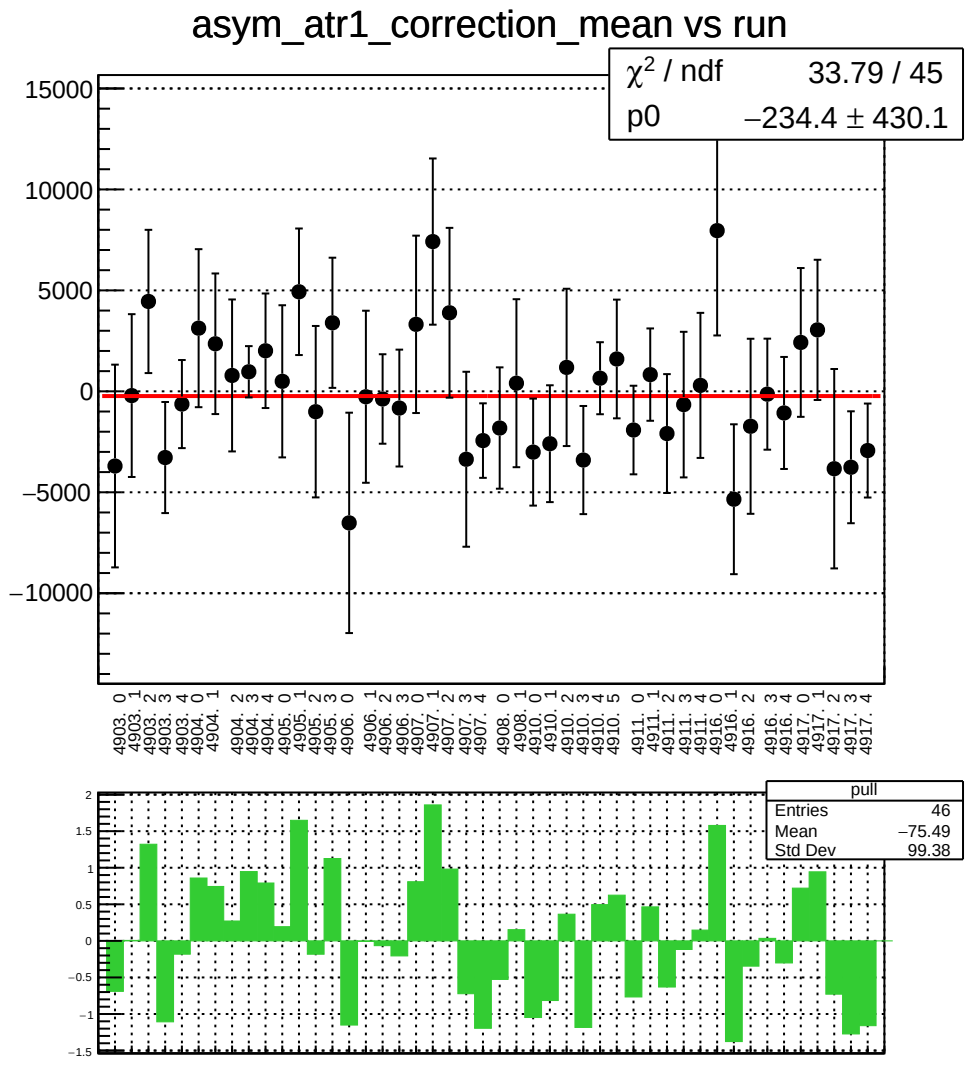

pull1D
Entries 46
Mean −0.01358
Std Dev 0.8779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

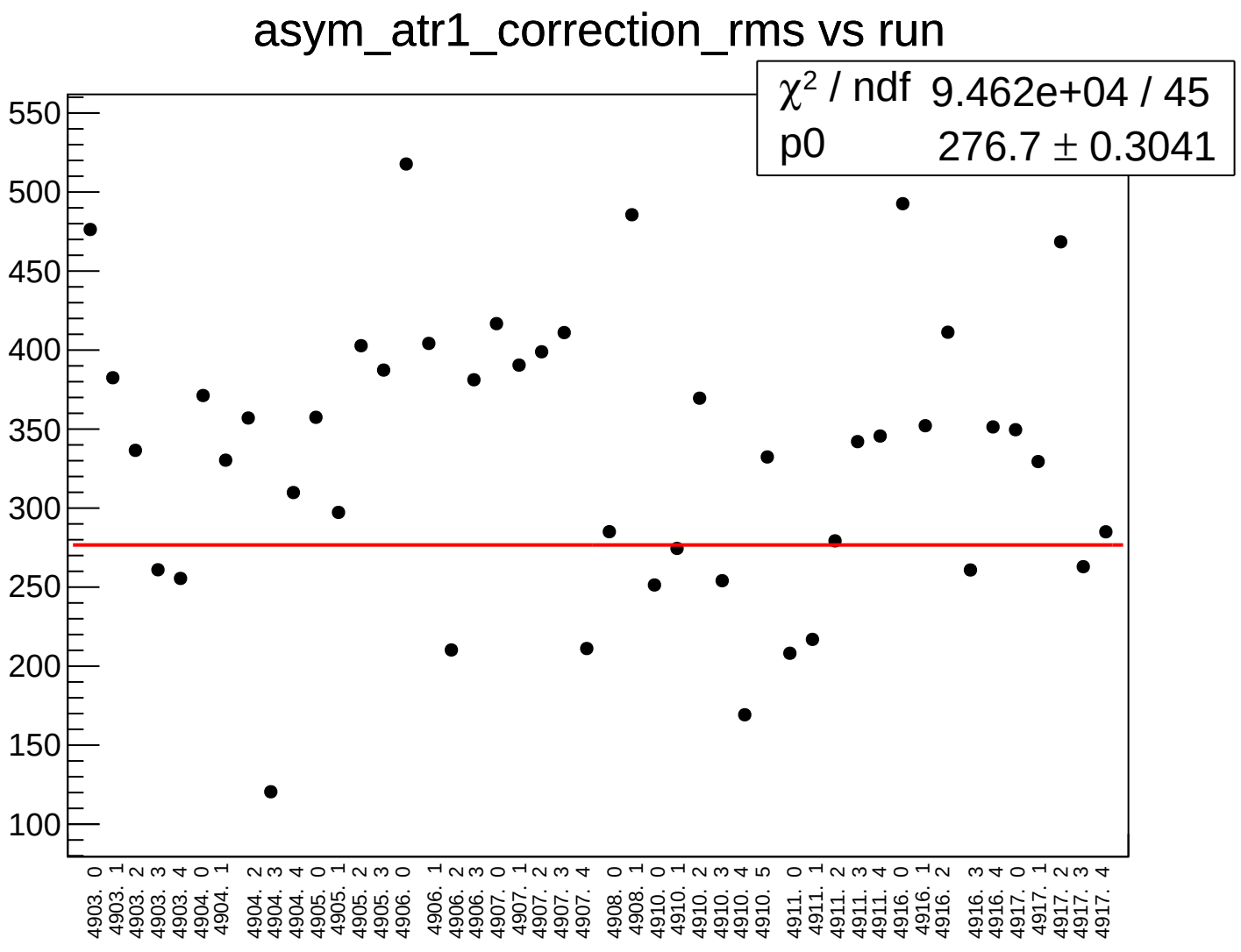

asym_atl2_rms vs run
χ² / ndf 69.78 / 45
p0 9980 ± 10.39
10300
10200
10100
10000
9900
9800
9700
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

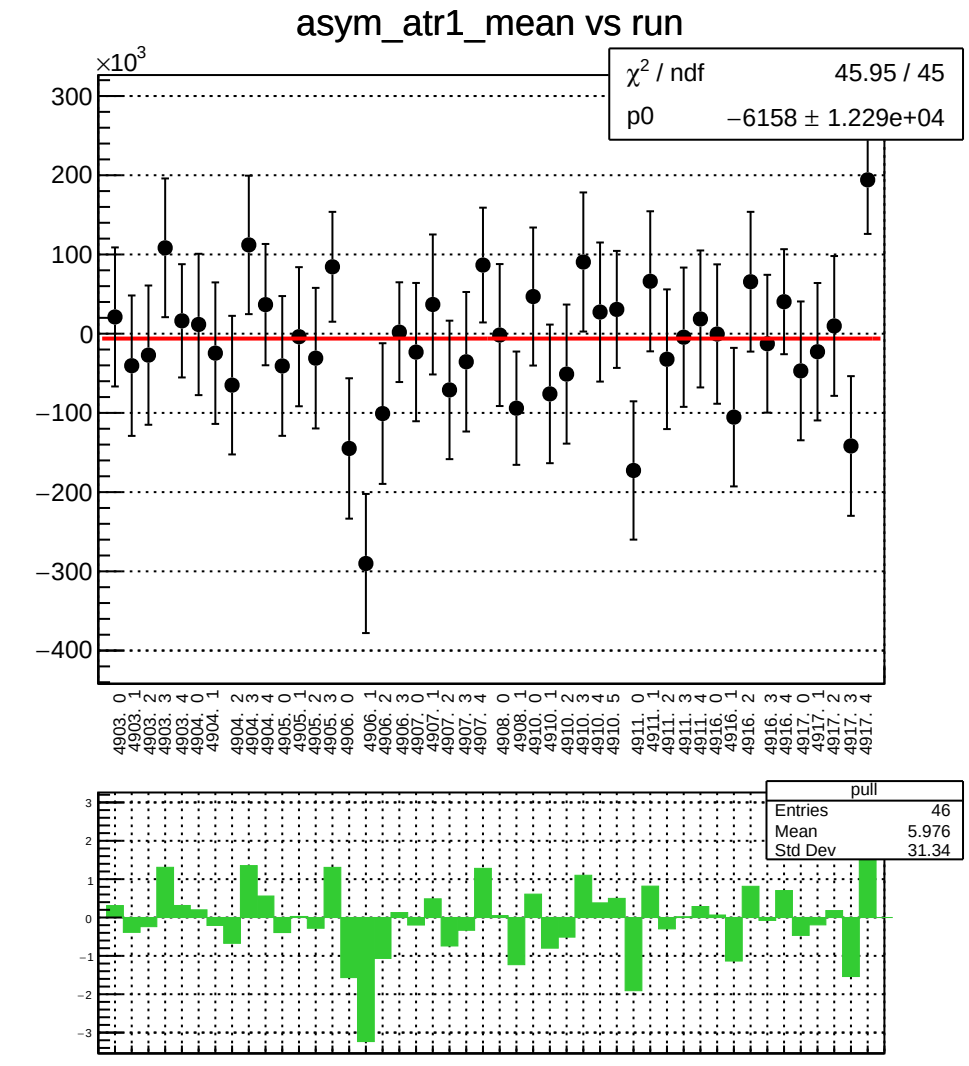

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 46.26 / 45
p0 −6232 ± 1.228e+04
pull
Entries 46
Mean 8.18
Std Dev 30.06

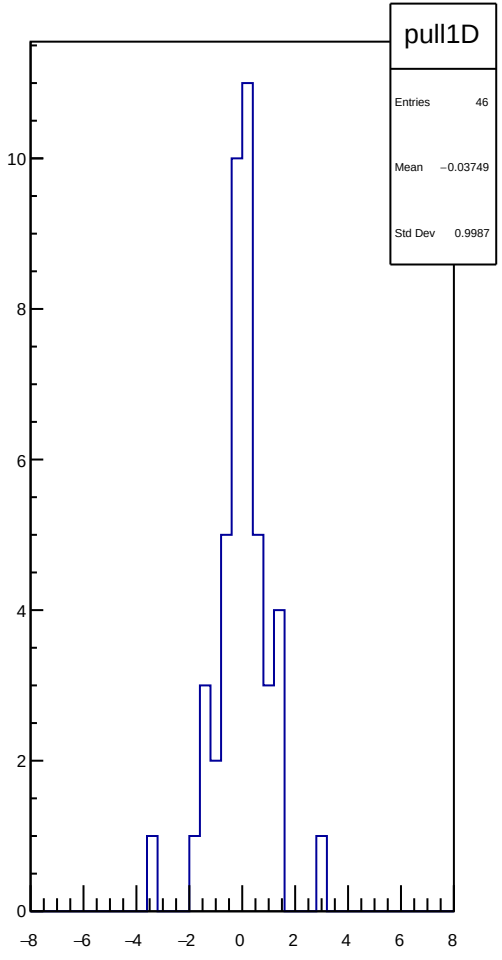

pull1D
Entries 46
Mean −0.03724
Std Dev 1.002

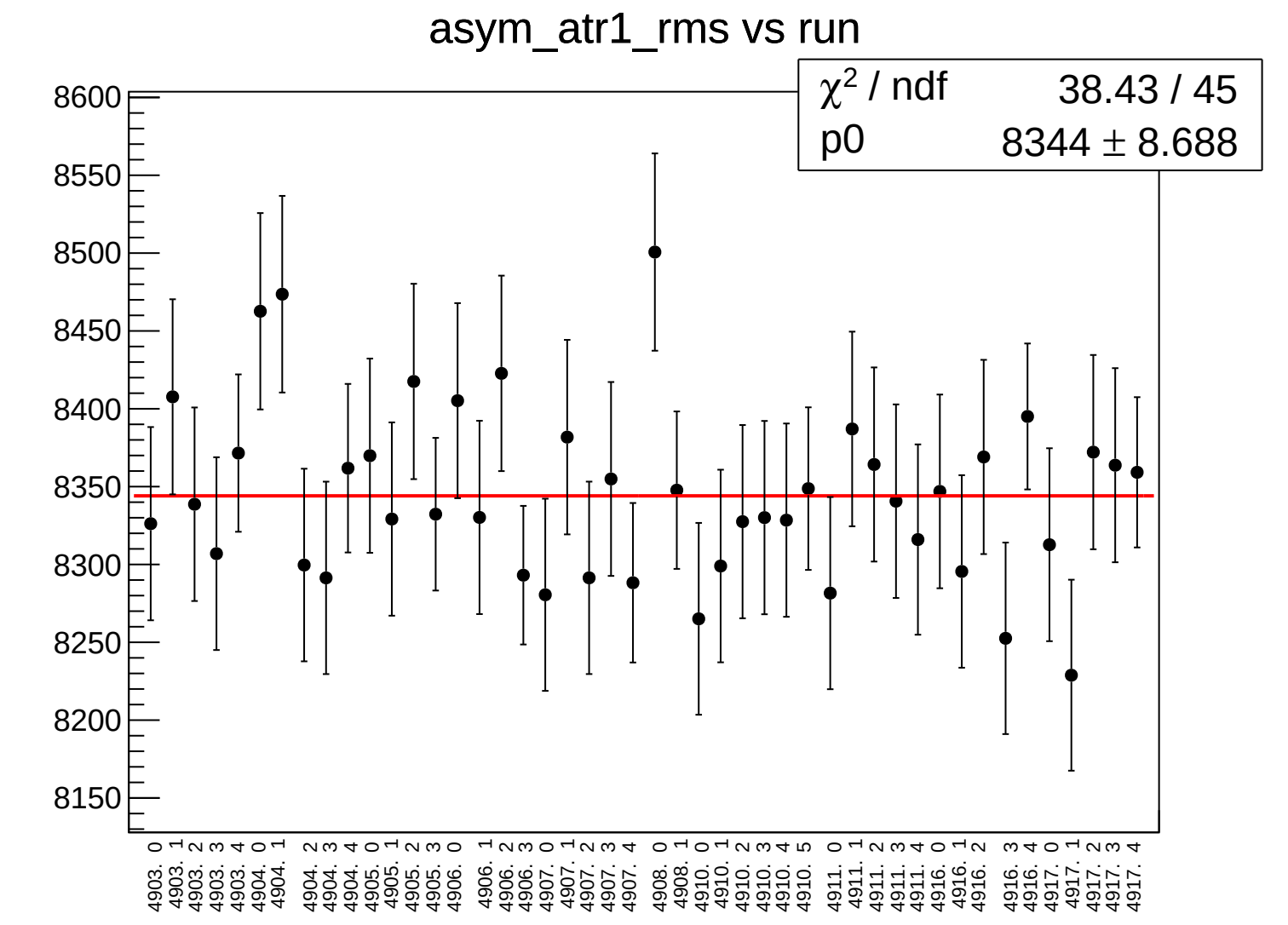

reg_asym_atr1_rms vs run
χ² / ndf 37.99 / 45
p0 8337 ± 8.68
8550
8500
8450
8400
8350
8300
8250
8200
8150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

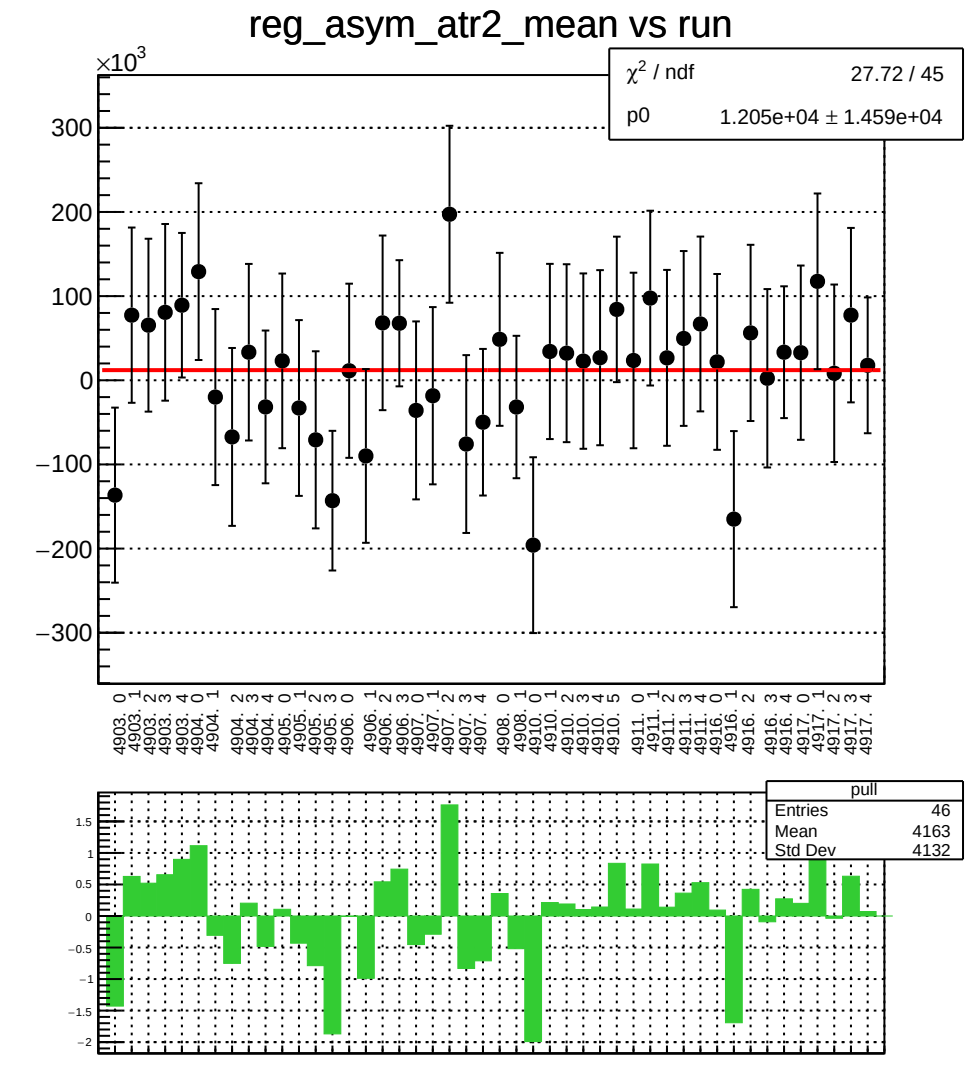

asym_atr1_correction_mean vs run
χ² / ndf 33.79 / 45
p0 −234.4 ± 430.1
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −75.49
Std Dev 99.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02834
Std Dev 0.8566
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

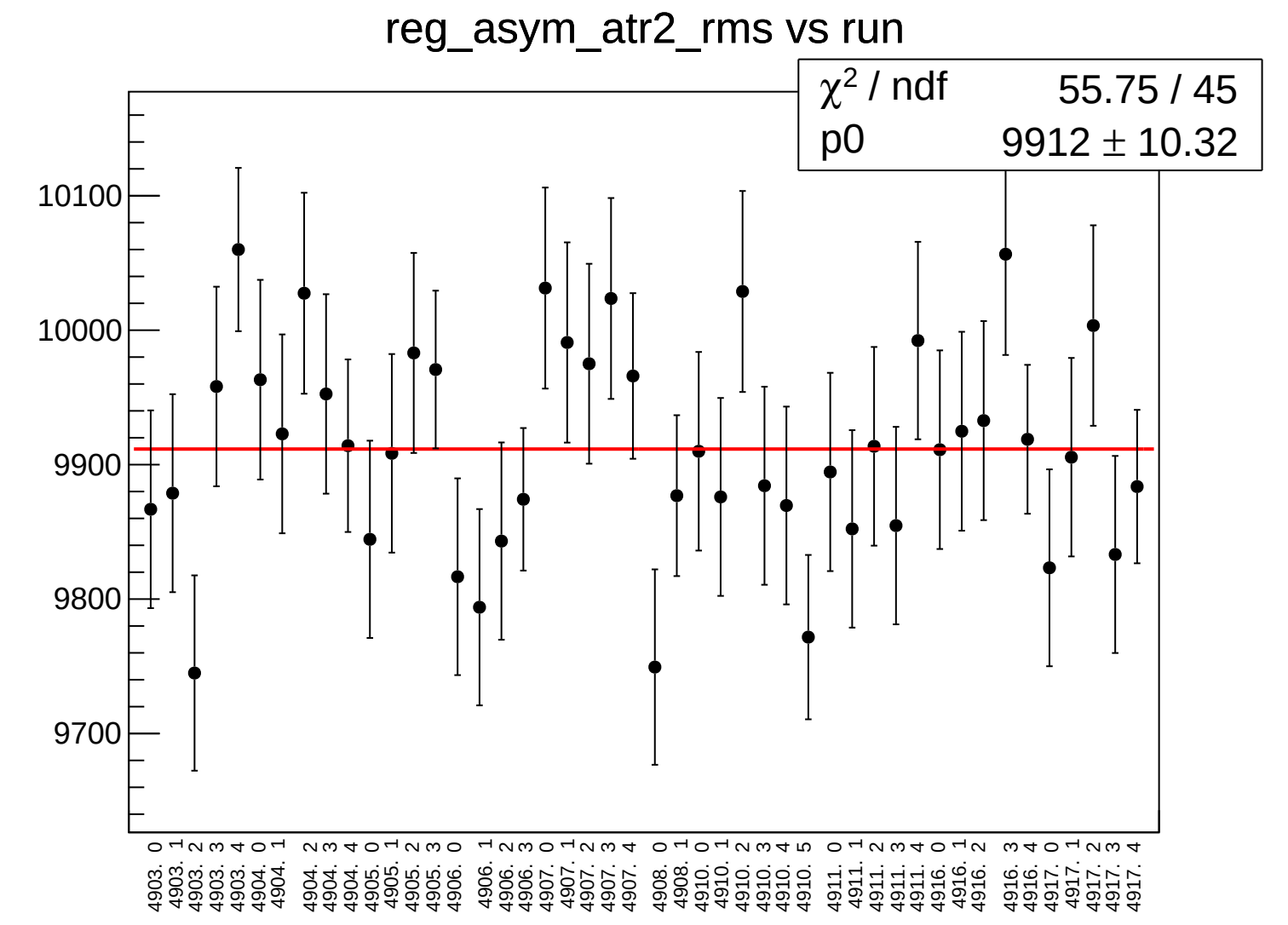

asym_atr1_correction_rms vs run
χ² / ndf 9.462e+04 / 45
p0 276.7 ± 0.3041
550
500
450
400
350
300
250
200
150
100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

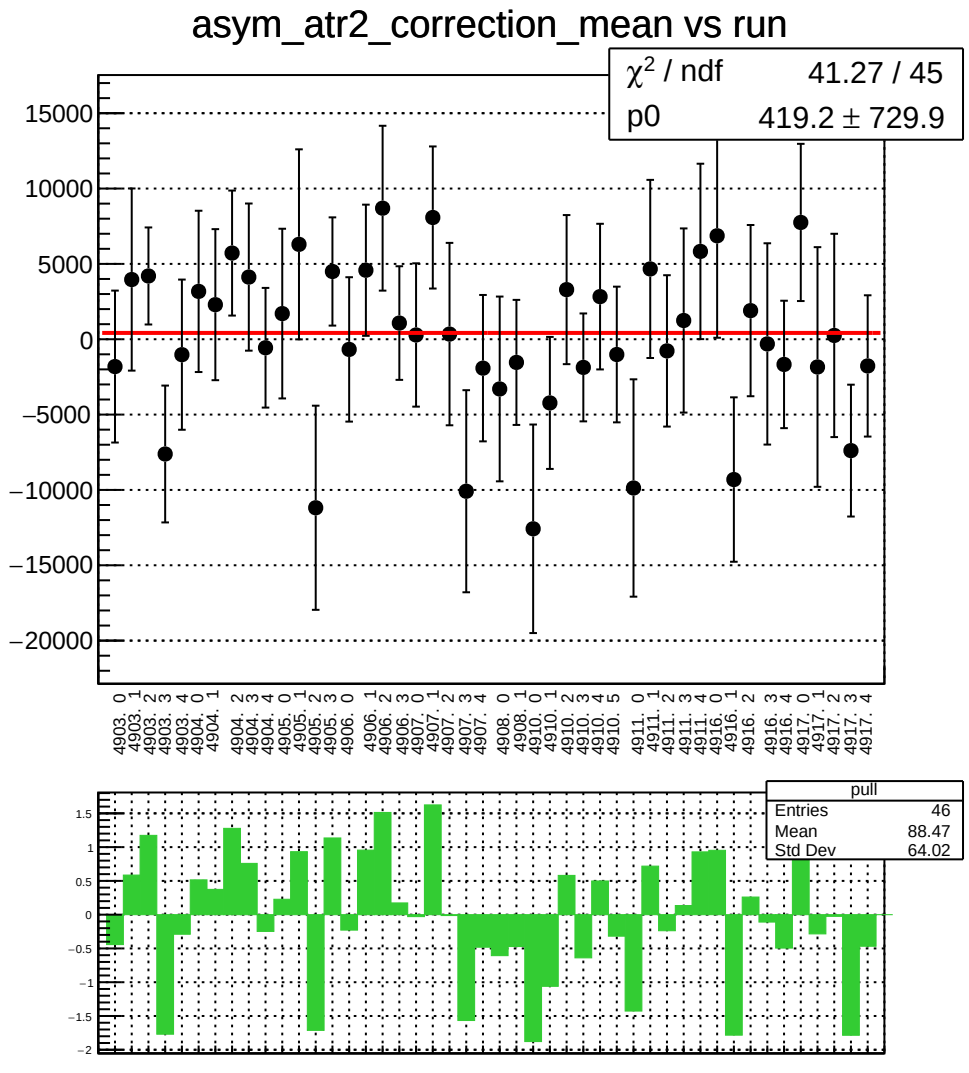

asym_atr1_mean vs run
×10^3
χ² / ndf 45.95 / 45
p0 −6158 ± 1.229e+04
300
200
100
0
−100
−200
−300
−400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 5.976
Std Dev 31.34
3
2
1
0
−1
−2
−3

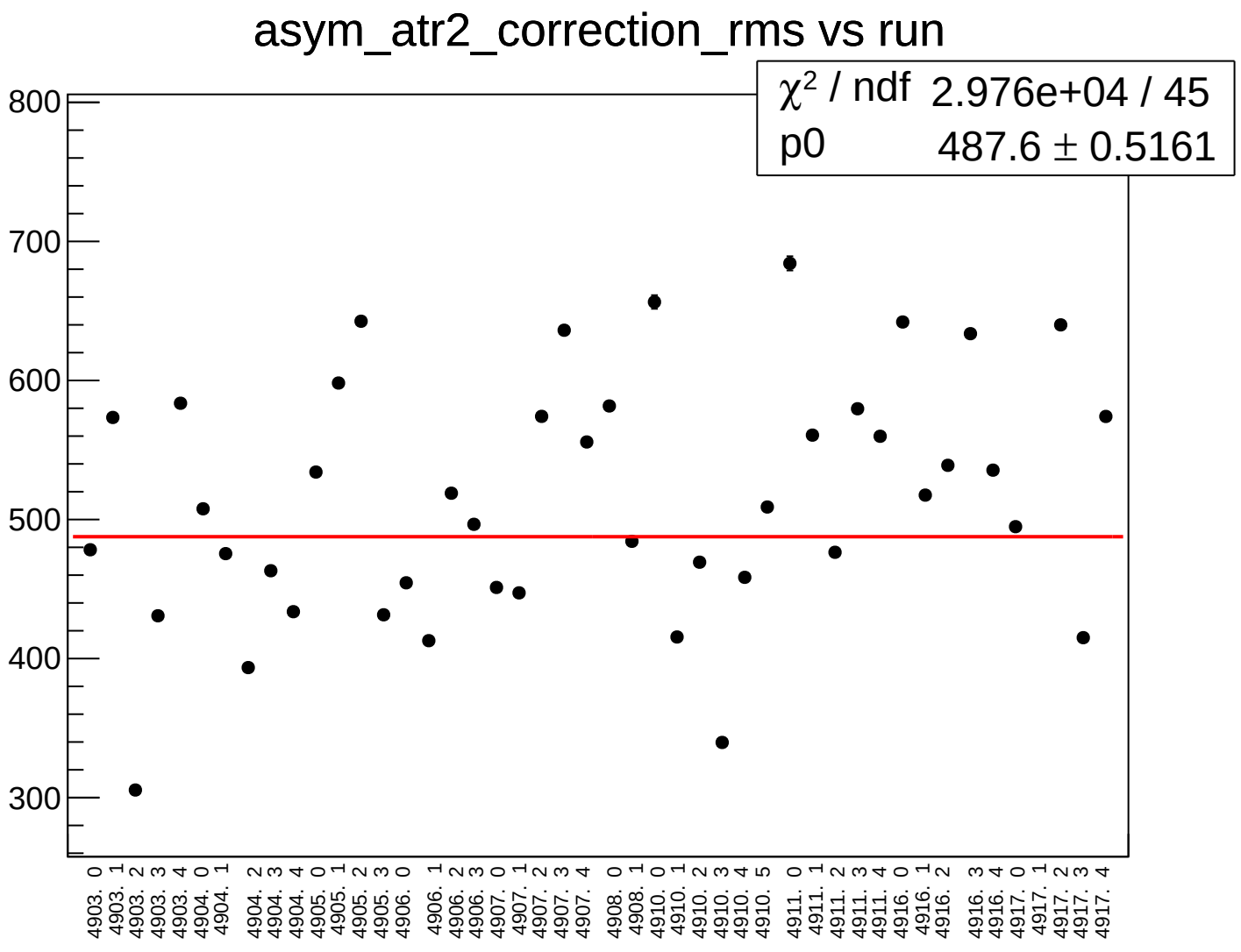

pull1D
Entries 46
Mean −0.03749
Std Dev 0.9987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

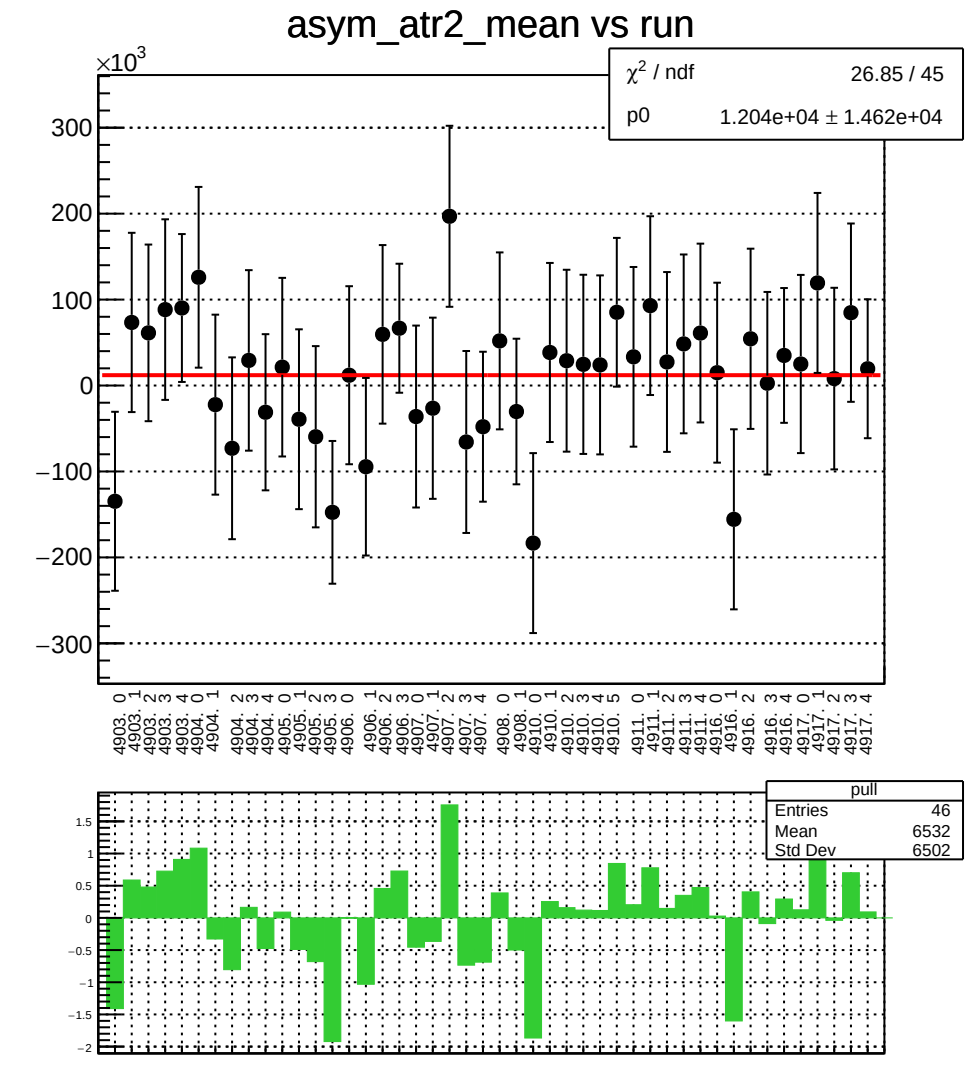

asym_atr1_rms vs run
χ² / ndf 38.43 / 45
p0 8344 ± 8.688
8600
8550
8500
8450
8400
8350
8300
8250
8200
8150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

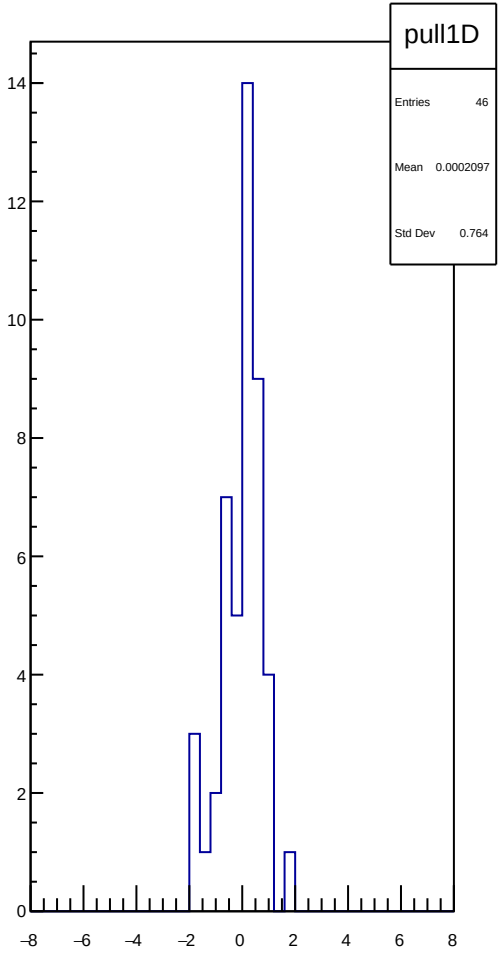

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 27.72 / 45
p0 1.205e+04 ± 1.459e+04
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 4163
Std Dev 4132
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0003058
Std Dev 0.7763
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

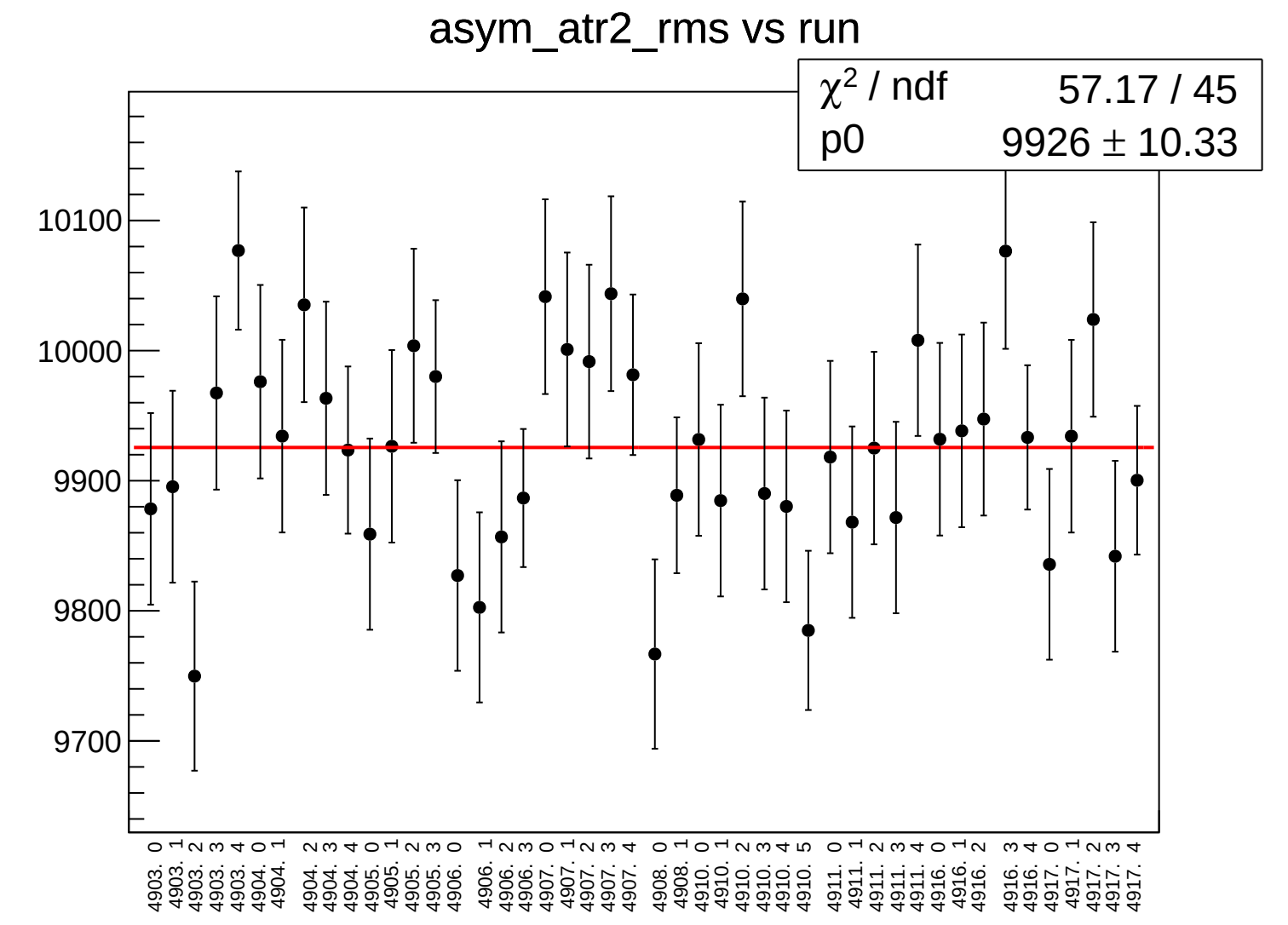

reg_asym_atr2_rms vs run
χ^2 / ndf 55.75 / 45
p0 9912 ± 10.32
10100
10000
9900
9800
9700
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

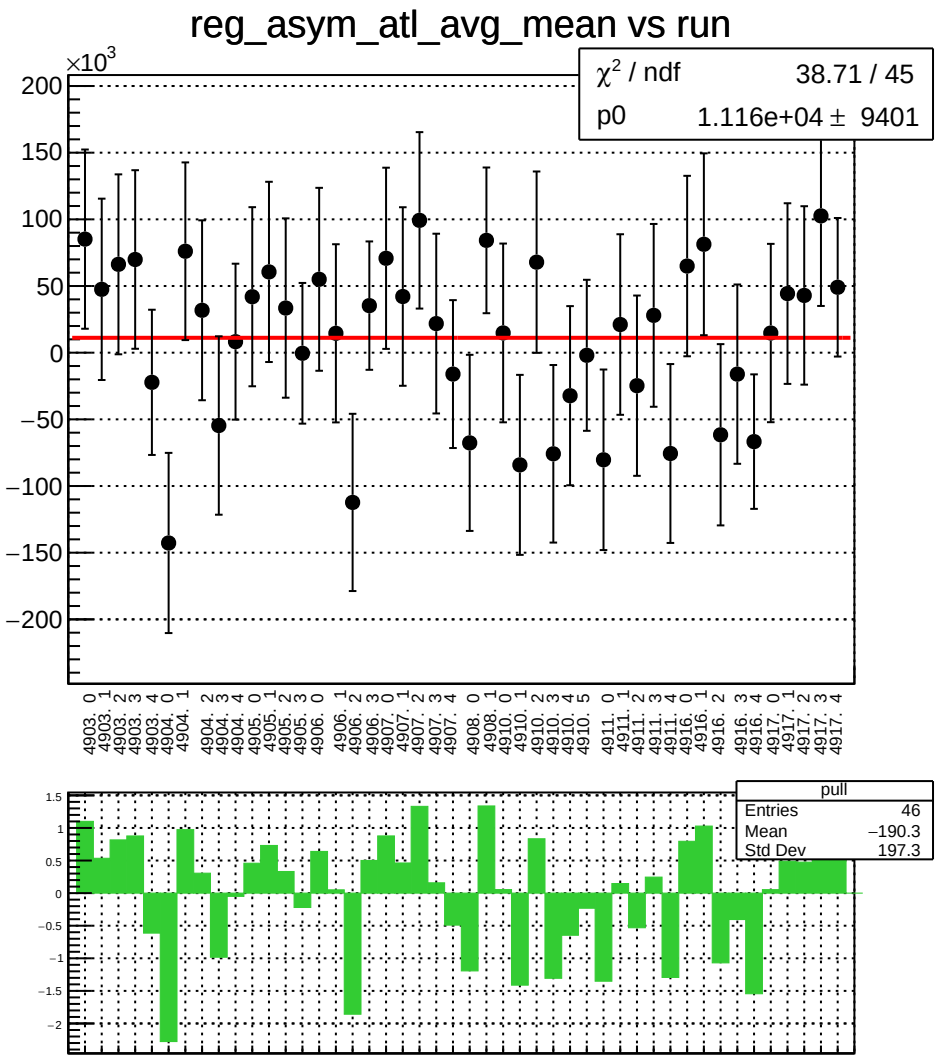

asym_atr2_correction_mean vs run
χ² / ndf 41.27 / 45
p0 419.2 ± 729.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 88.47
Std Dev 64.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.03562
Std Dev 0.9465
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

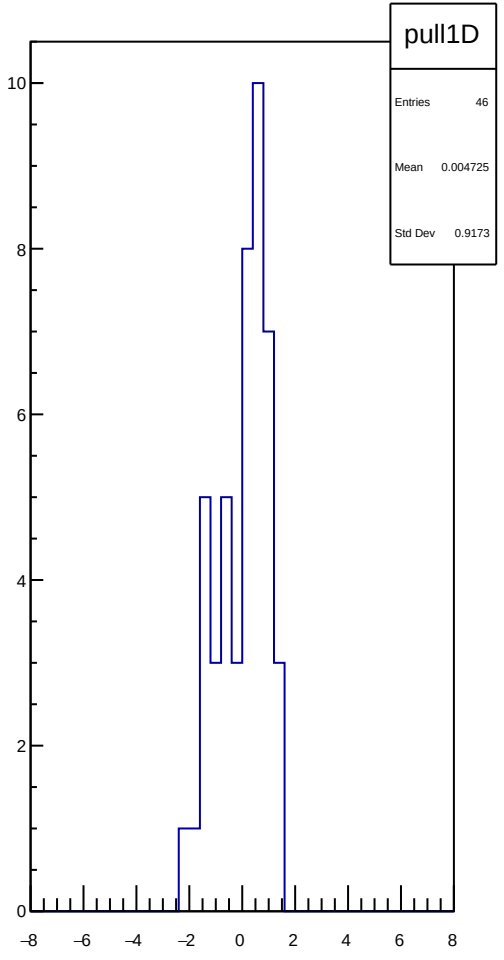

asym_atr2_correction_rms vs run
χ² / ndf 2.976e+04 / 45
p0 487.6 ± 0.5161
800
700
600
500
400
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

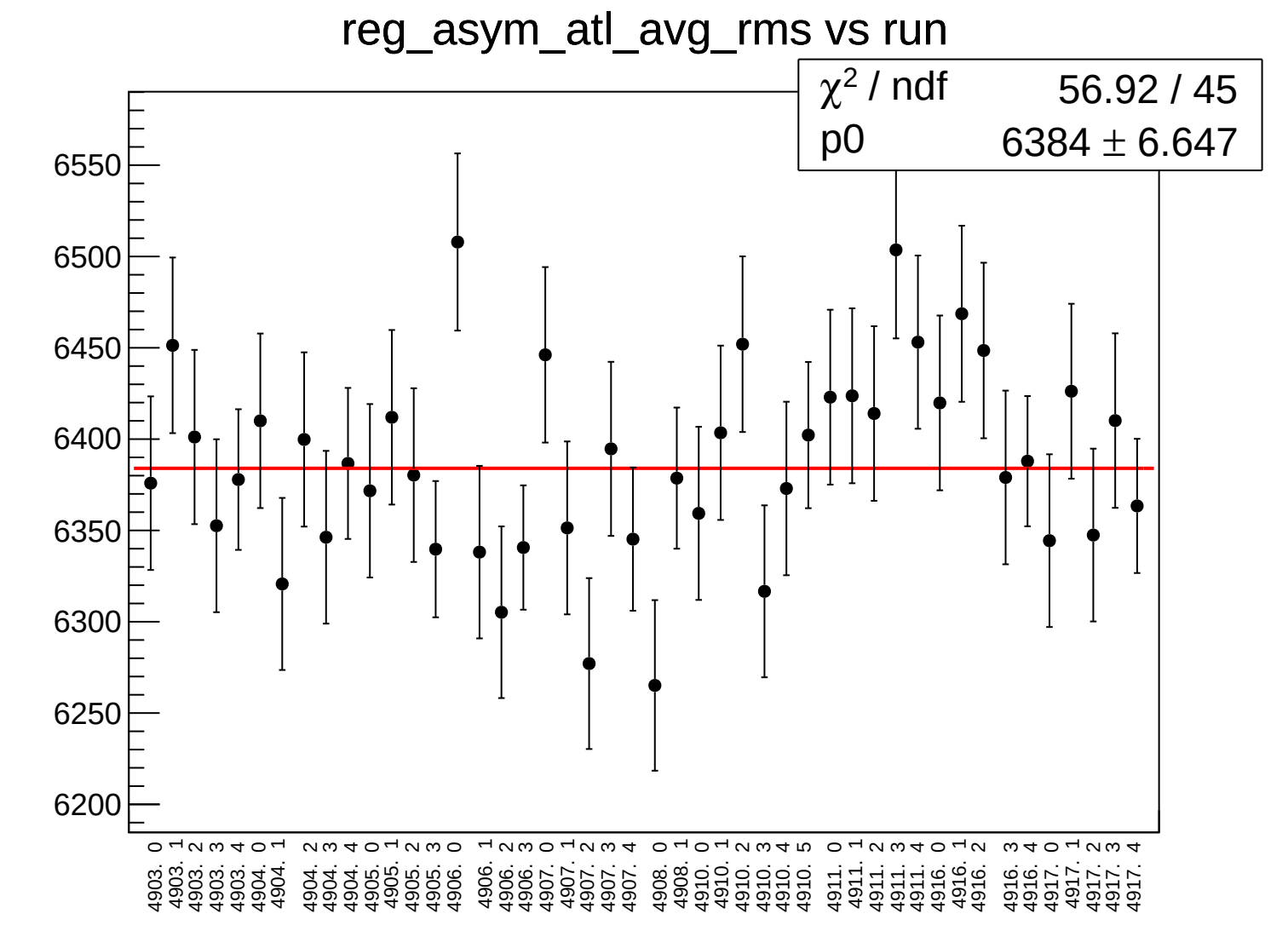

asym_atr2_mean vs run
×10^3
χ² / ndf 26.85 / 45
p0 1.204e+04 ± 1.462e+04
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 6532
Std Dev 6502
1.5
1
0.5
0
−0.5
−1
−1.5
−2

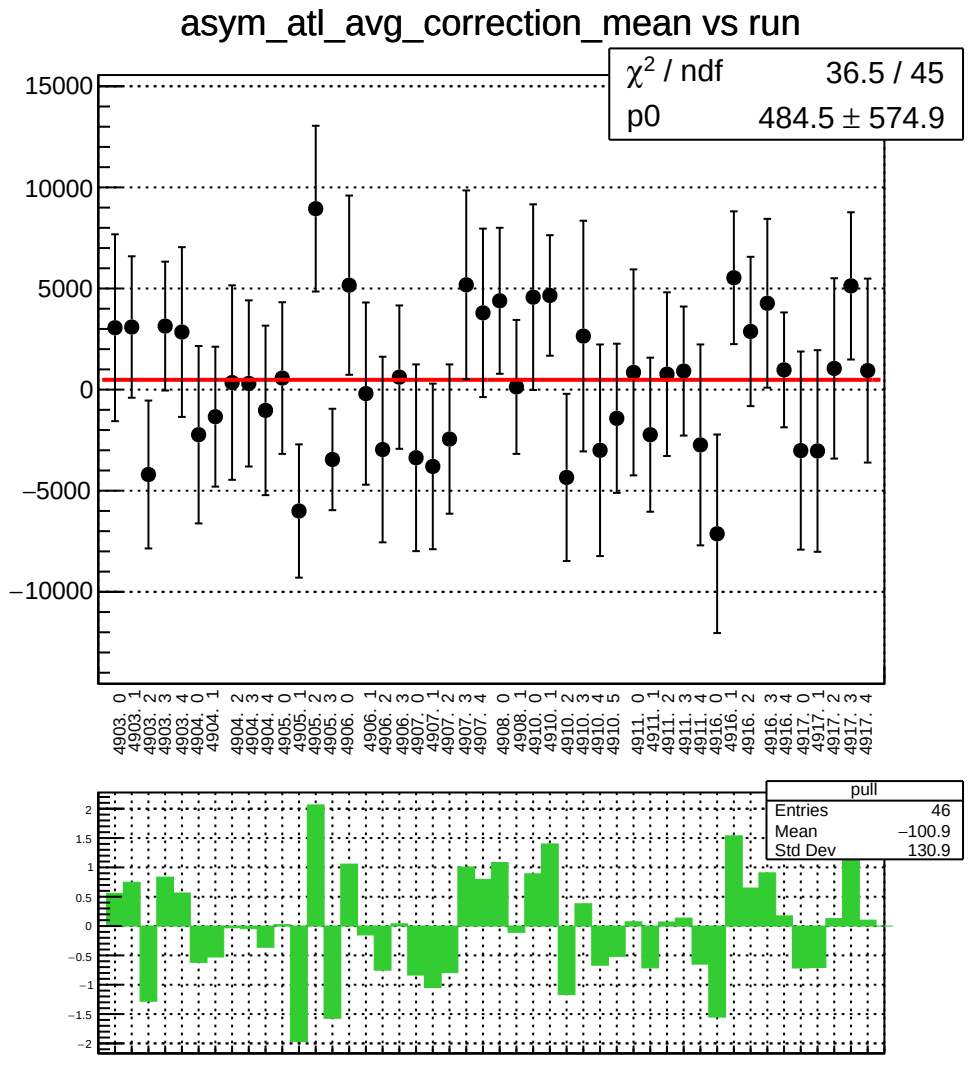

pull1D
Entries 46
Mean 0.0002097
Std Dev 0.764
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

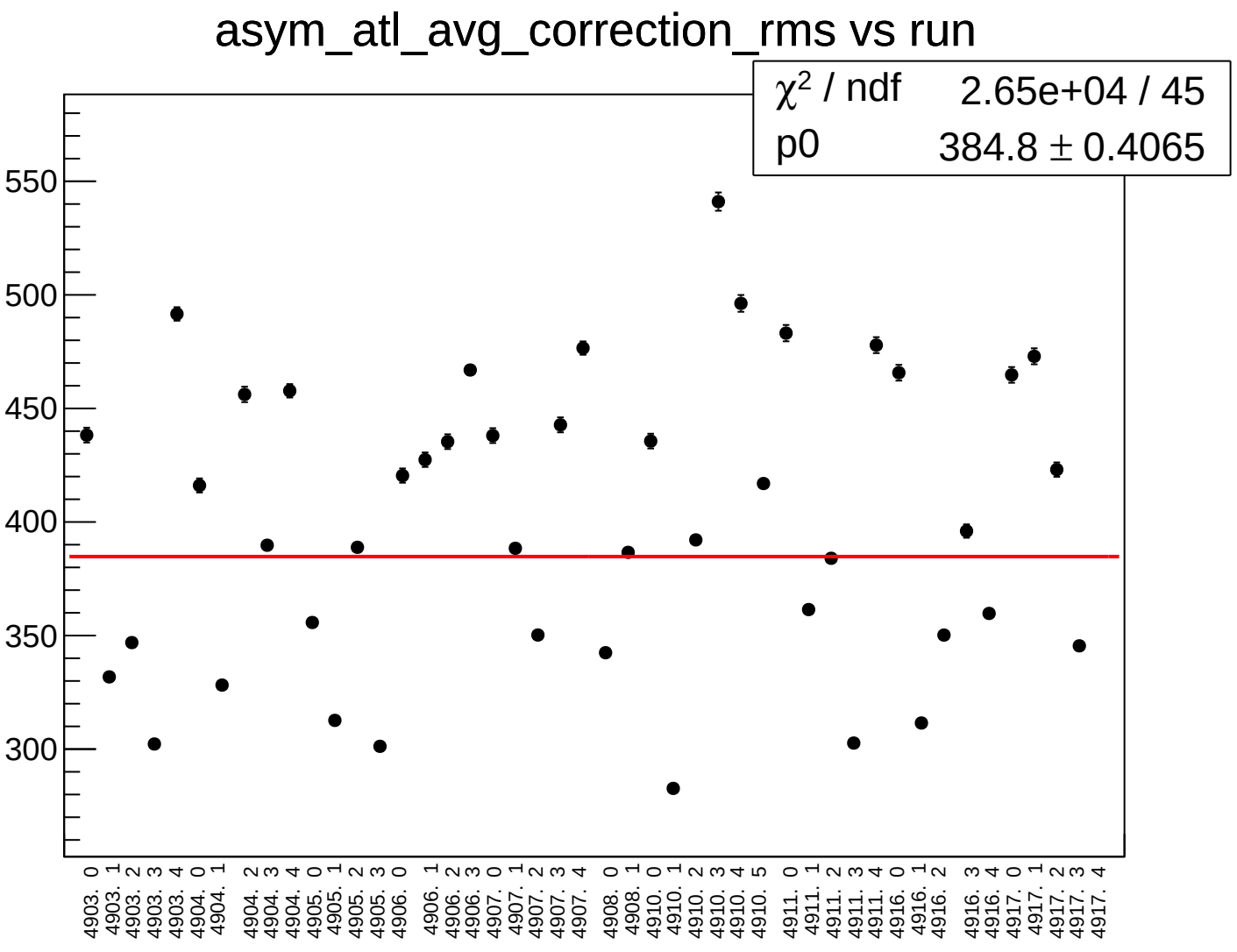

asym_atr2_rms vs run
χ² / ndf 57.17 / 45
p0 9926 ± 10.33
10100
10000
9900
9800
9700
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

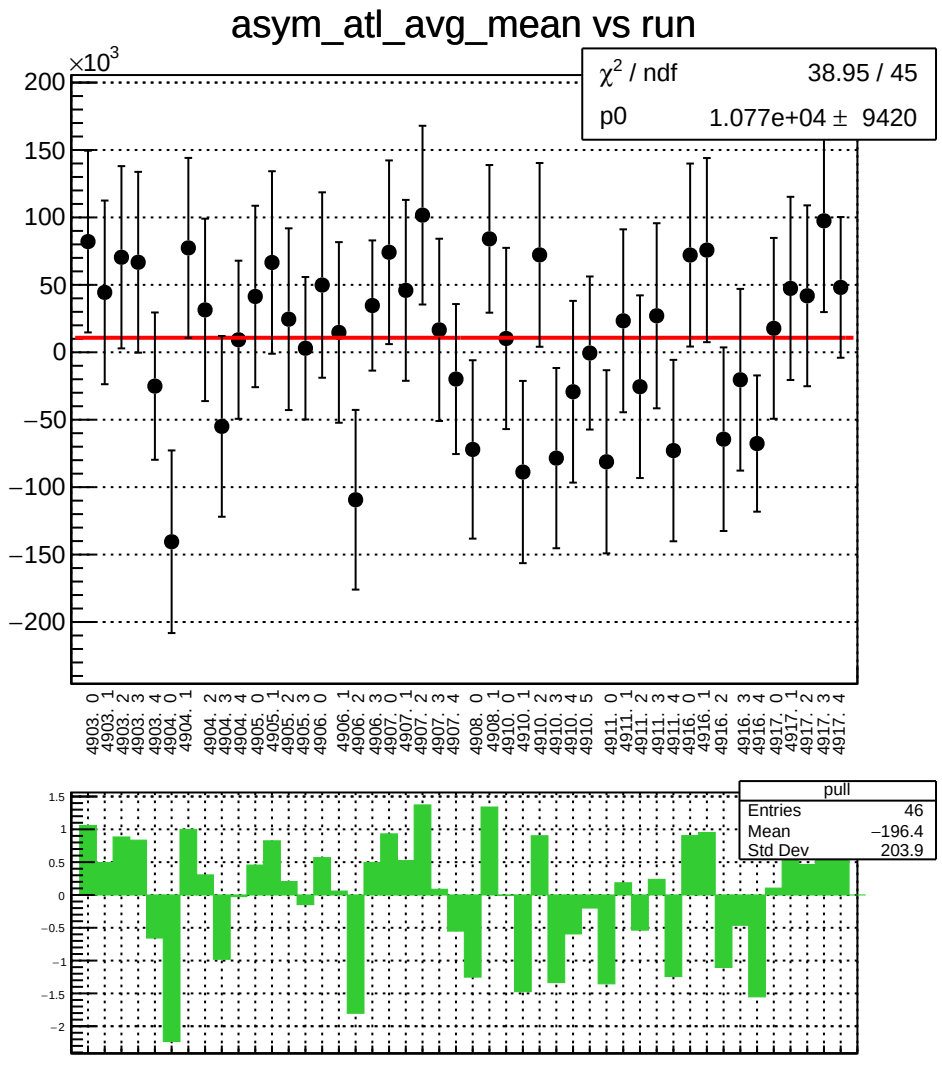

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 38.71 / 45
p0 1.116e+04 ± 9401
pull
Entries 46
Mean −190.3
Std Dev 197.3

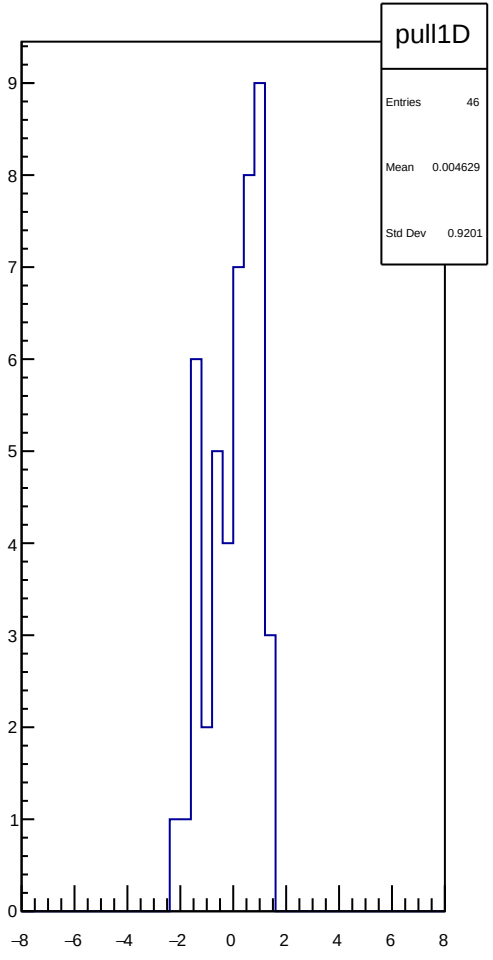

pull1D
Entries 46
Mean 0.004725
Std Dev 0.9173

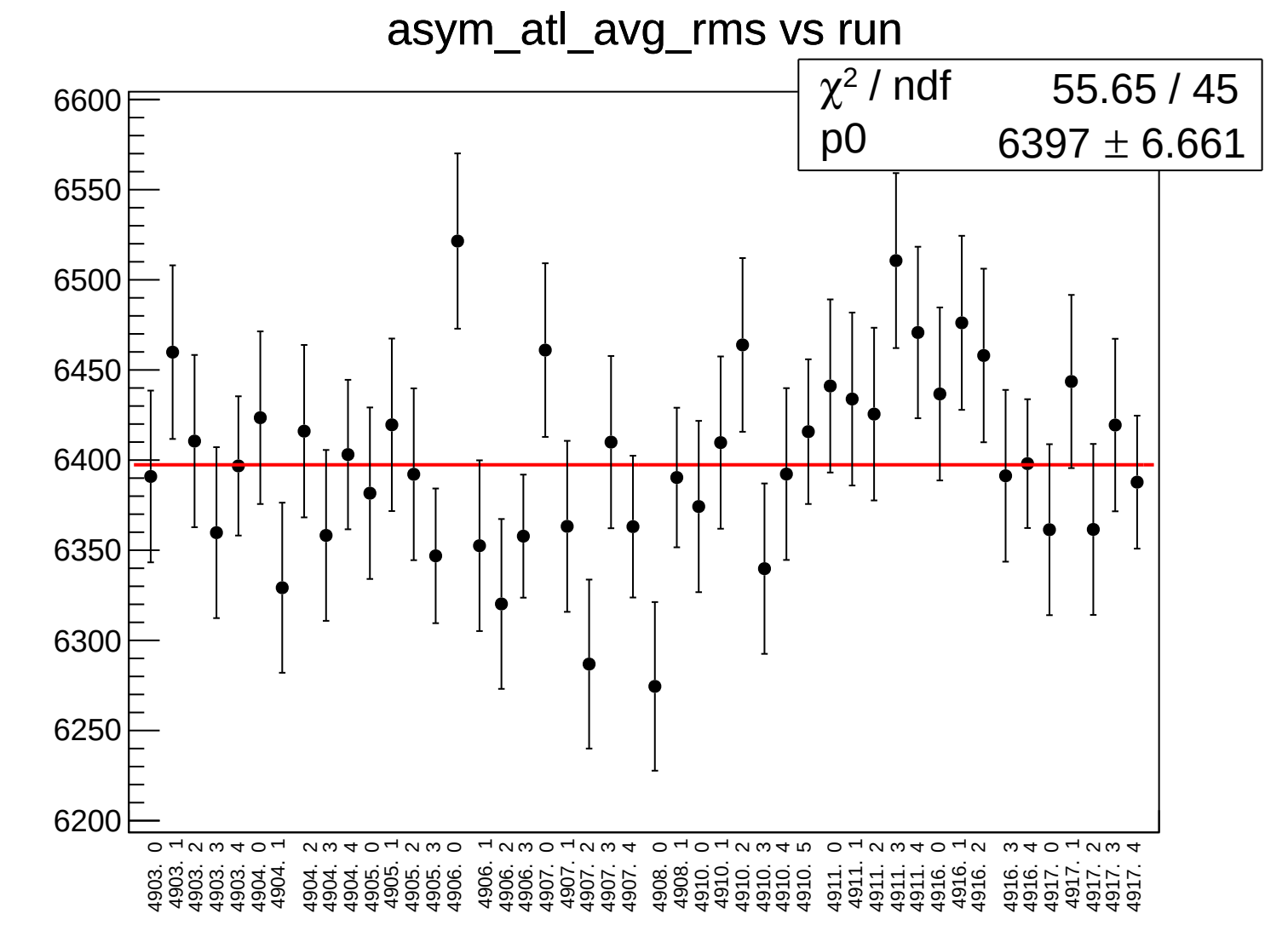

reg_asym_atl_avg_rms vs run
χ² / ndf 56.92 / 45
p0 6384 ± 6.647
6550
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

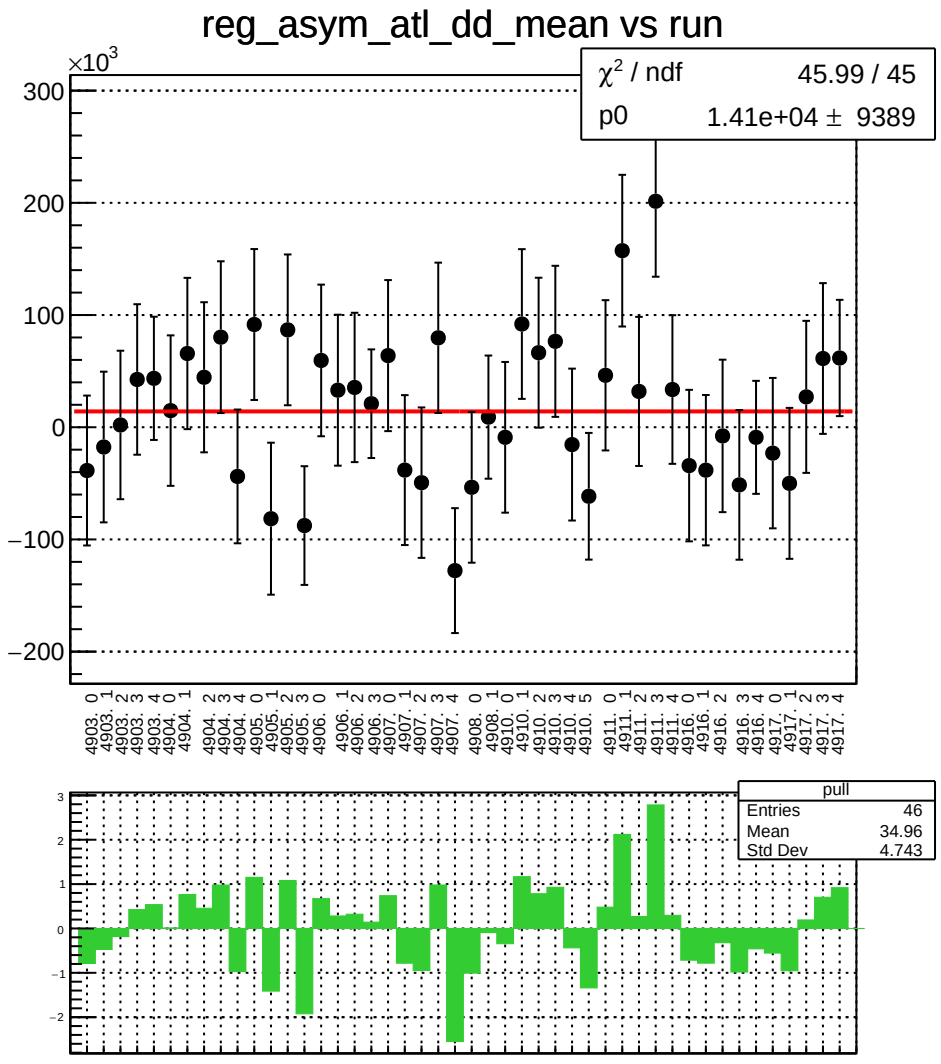

asym_atl_avg_correction_mean vs run
χ² / ndf 36.5 / 45
p0 484.5 ± 574.9
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −100.9
Std Dev 130.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.006182
Std Dev 0.8908
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

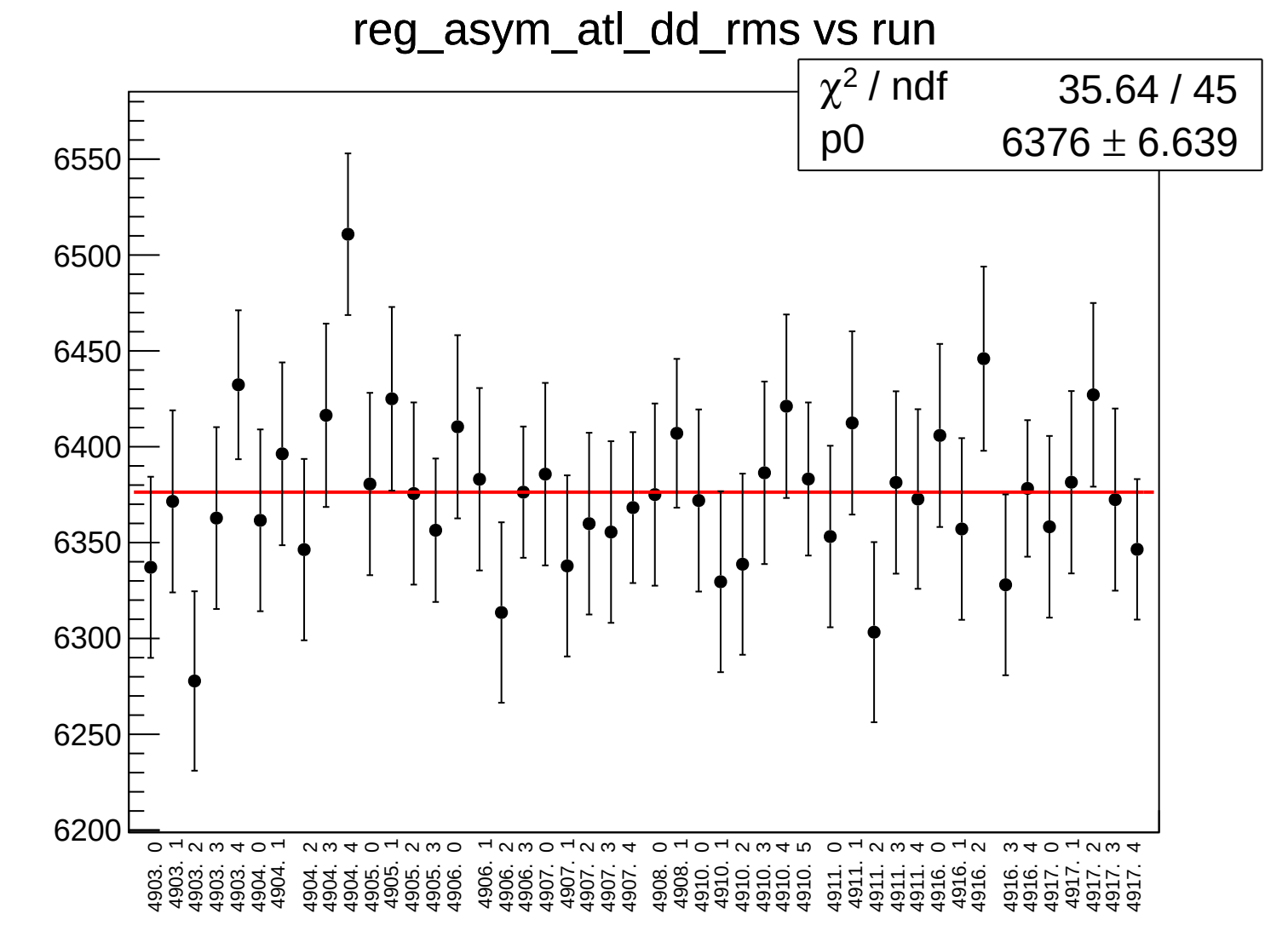

asym_atl_avg_correction_rms vs run
χ² / ndf 2.65e+04 / 45
p0 384.8 ± 0.4065
550
500
450
400
350
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

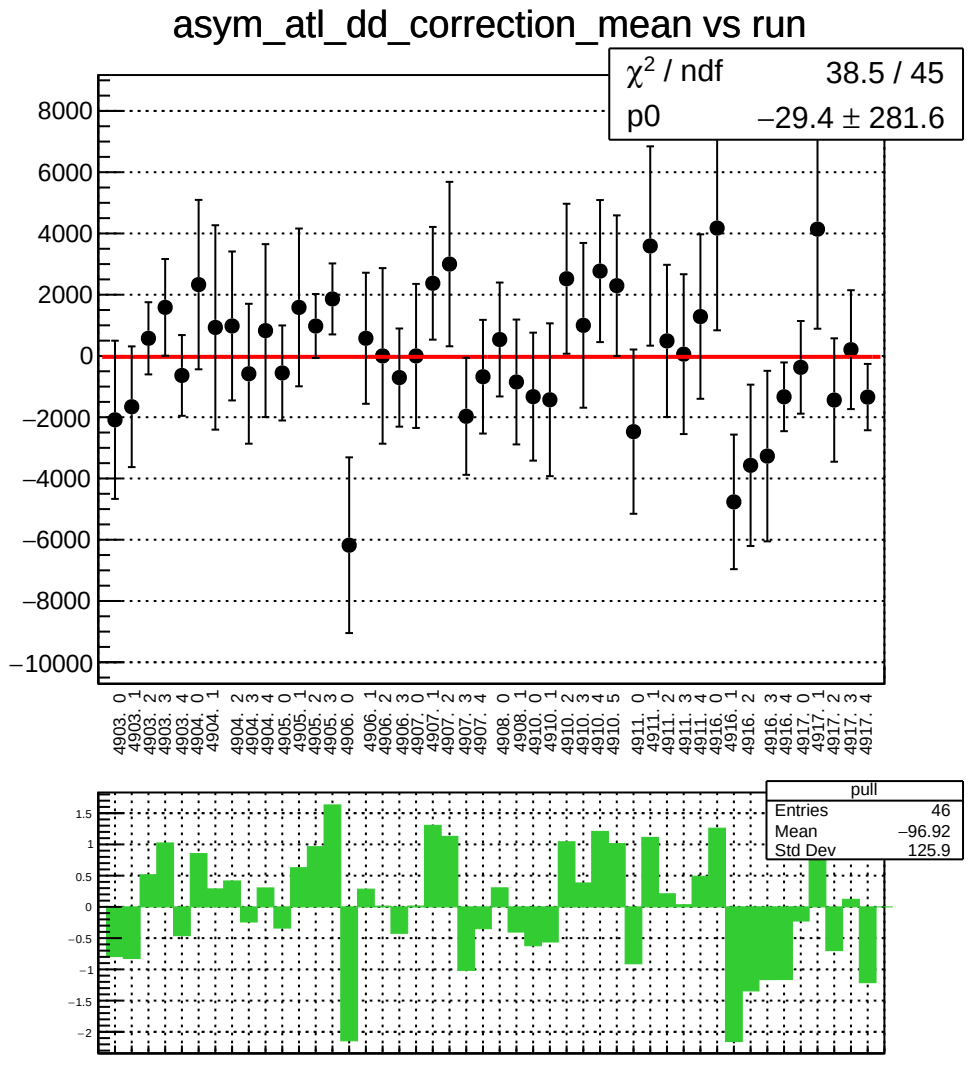

asym_atl_avg_mean vs run
×10^3
χ² / ndf 38.95 / 45
p0 1.077e+04 ± 9420
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −196.4
Std Dev 203.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

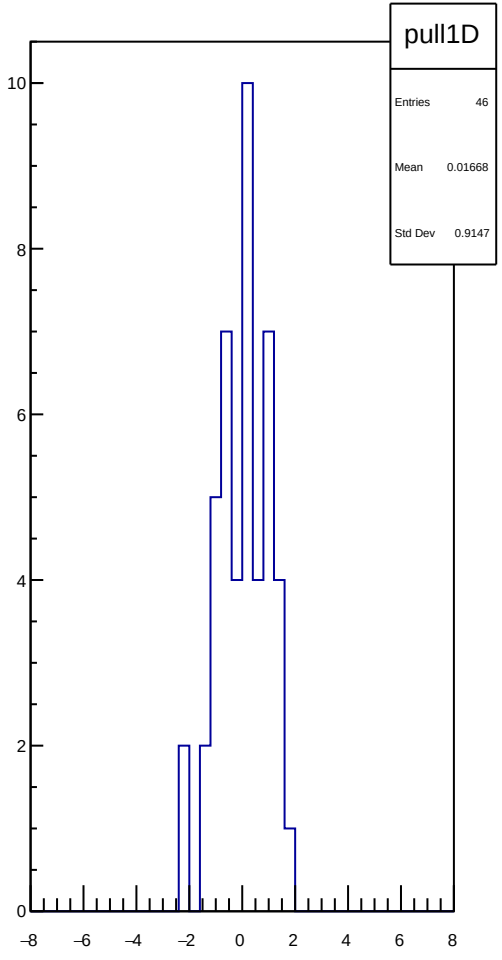

pull1D
Entries 46
Mean 0.004629
Std Dev 0.9201
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

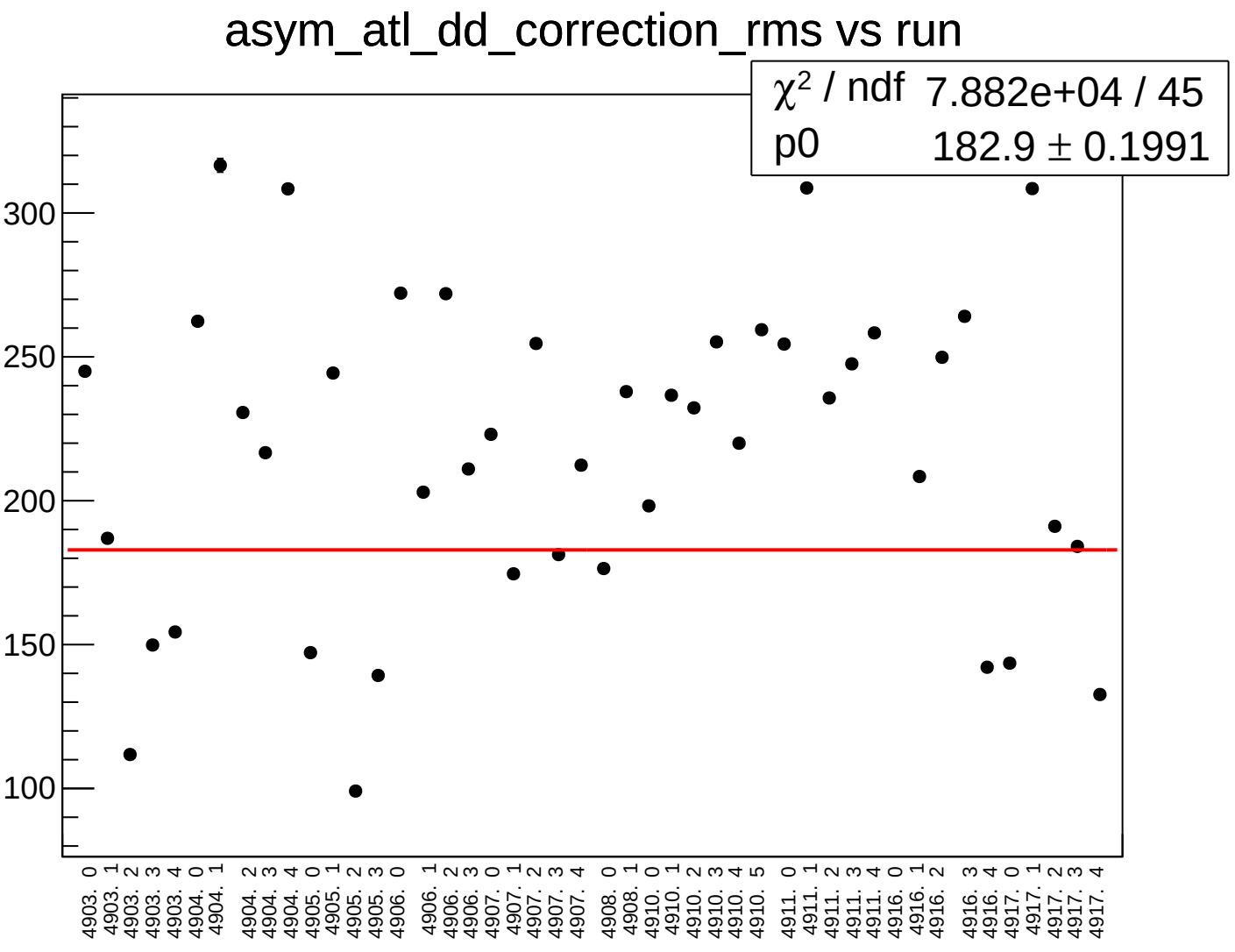

asym_atl_avg_rms vs run
χ² / ndf 55.65 / 45
p0 6397 ± 6.661
6600
6550
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

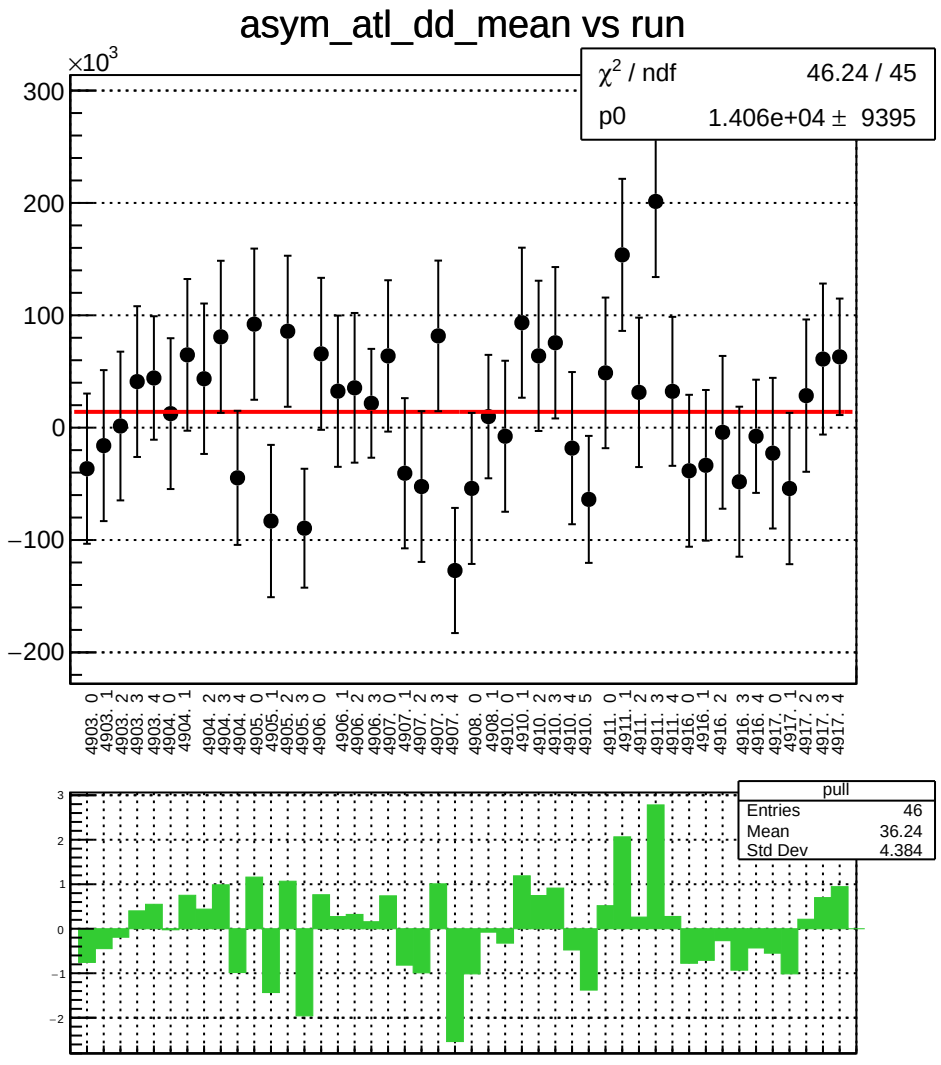

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 45.99 / 45
p0 1.41e+04 ± 9389
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 34.96
Std Dev 4.743
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02521
Std Dev 0.9995
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

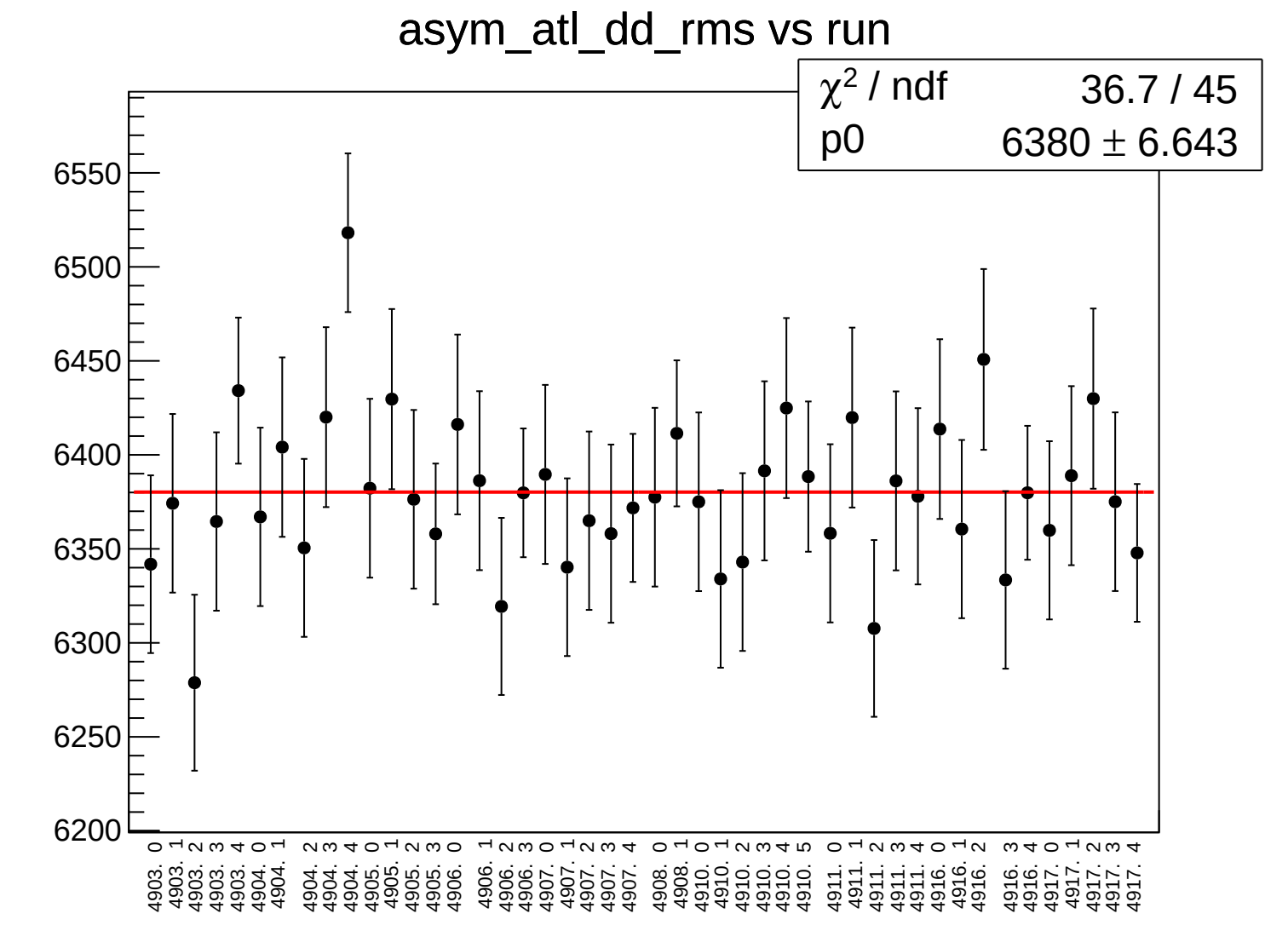

reg_asym_atl_dd_rms vs run
χ² / ndf 35.64 / 45
p0 6376 ± 6.639
6550
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

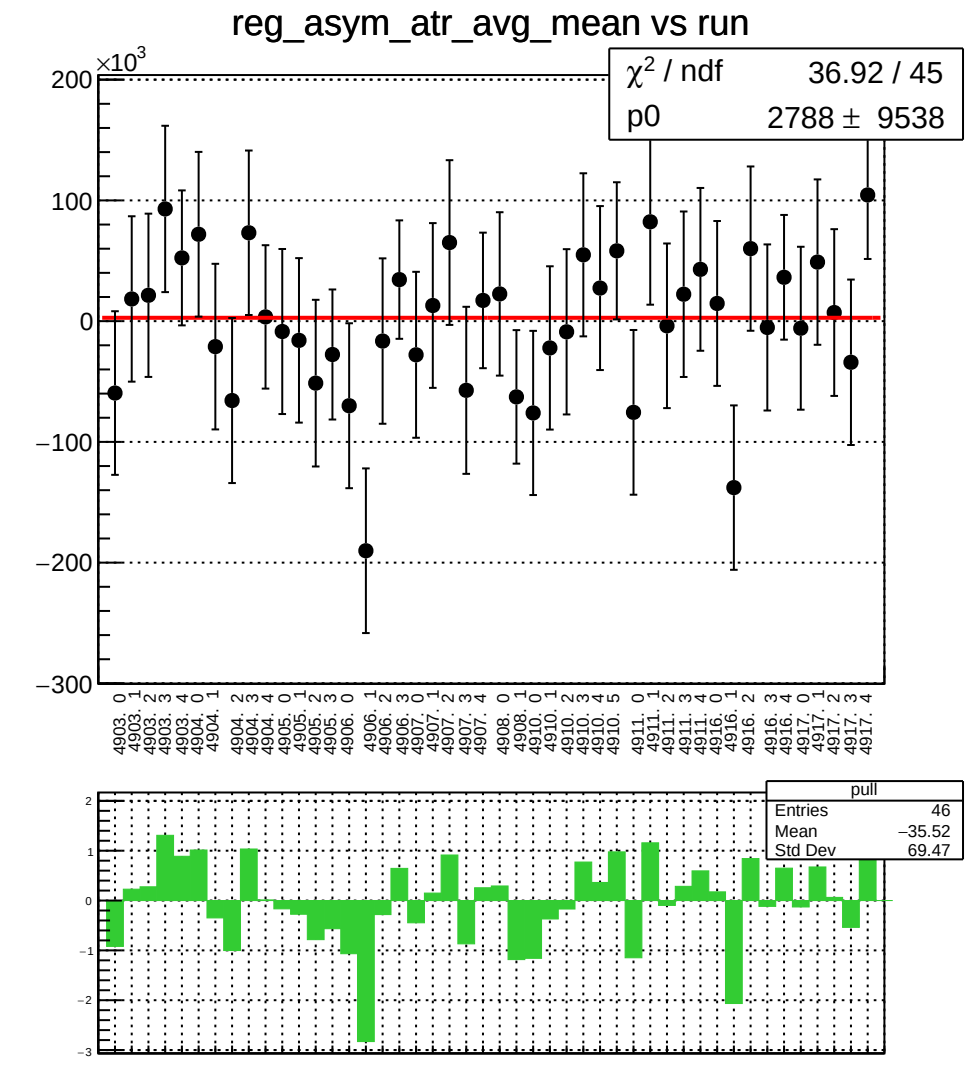

asym_atl_dd_correction_mean vs run
χ² / ndf 38.5 / 45
p0 −29.4 ± 281.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −96.92
Std Dev 125.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

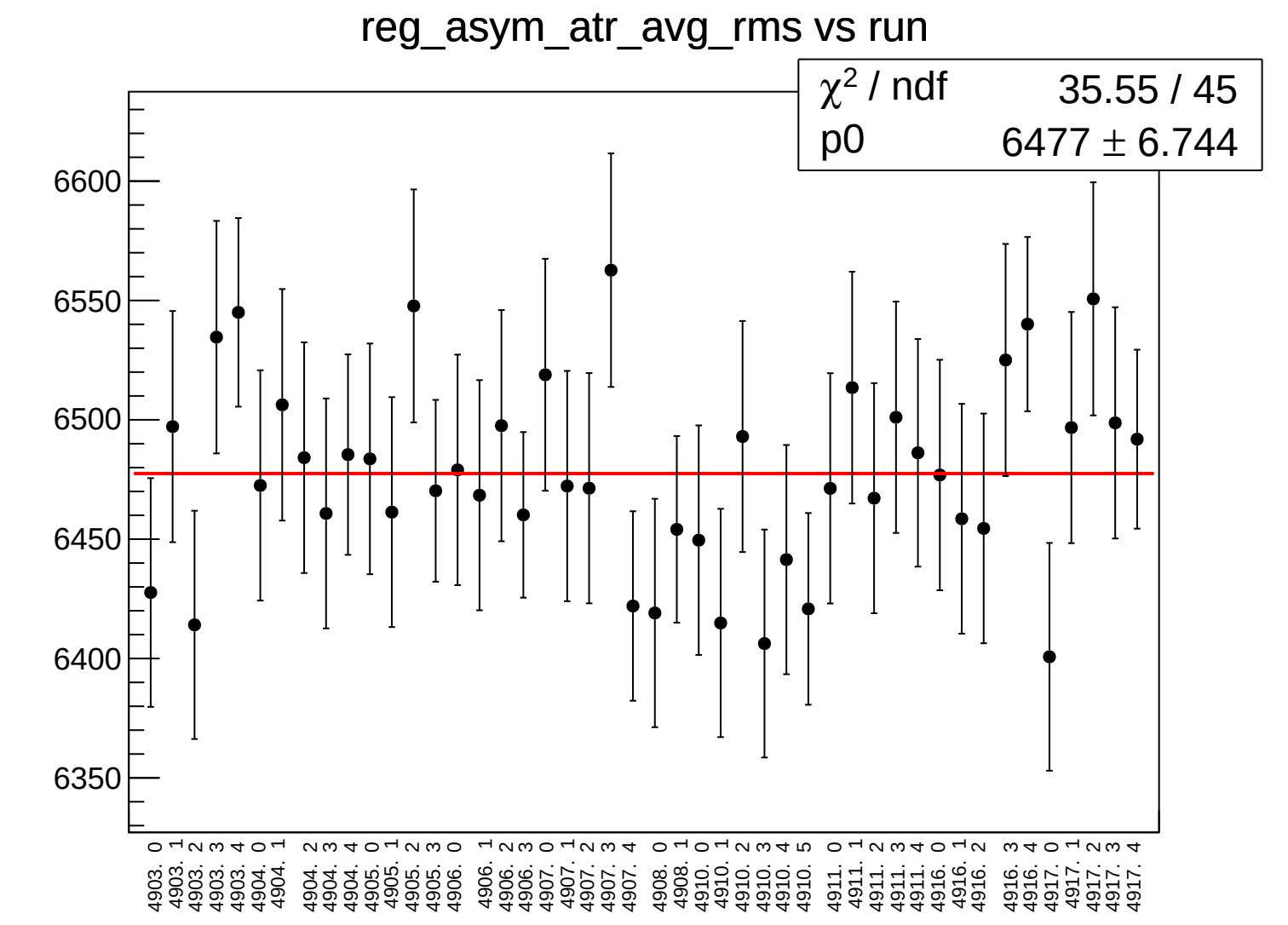

pull1D
Entries 46
Mean 0.01668
Std Dev 0.9147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

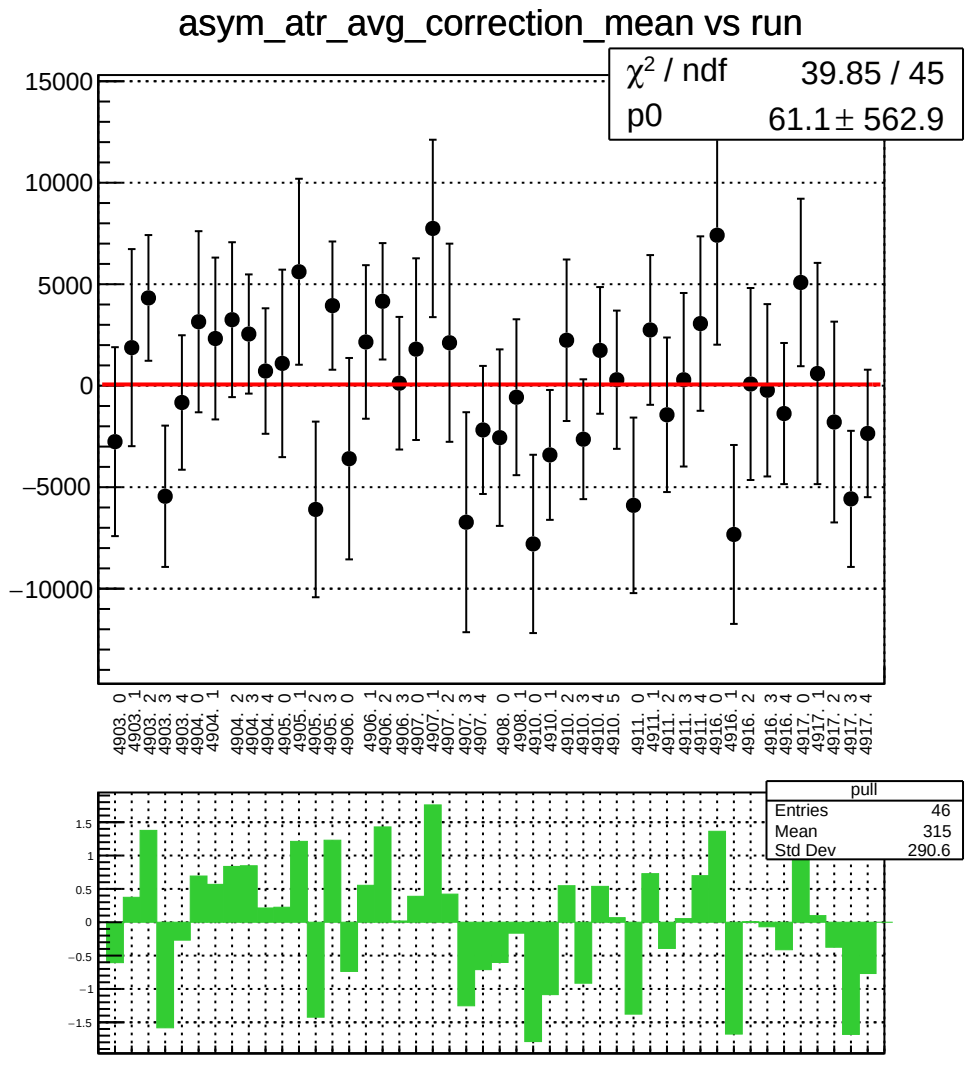

asym_atl_dd_correction_rms vs run
χ² / ndf 7.882e+04 / 45
p0 182.9 ± 0.1991
300
250
200
150
100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

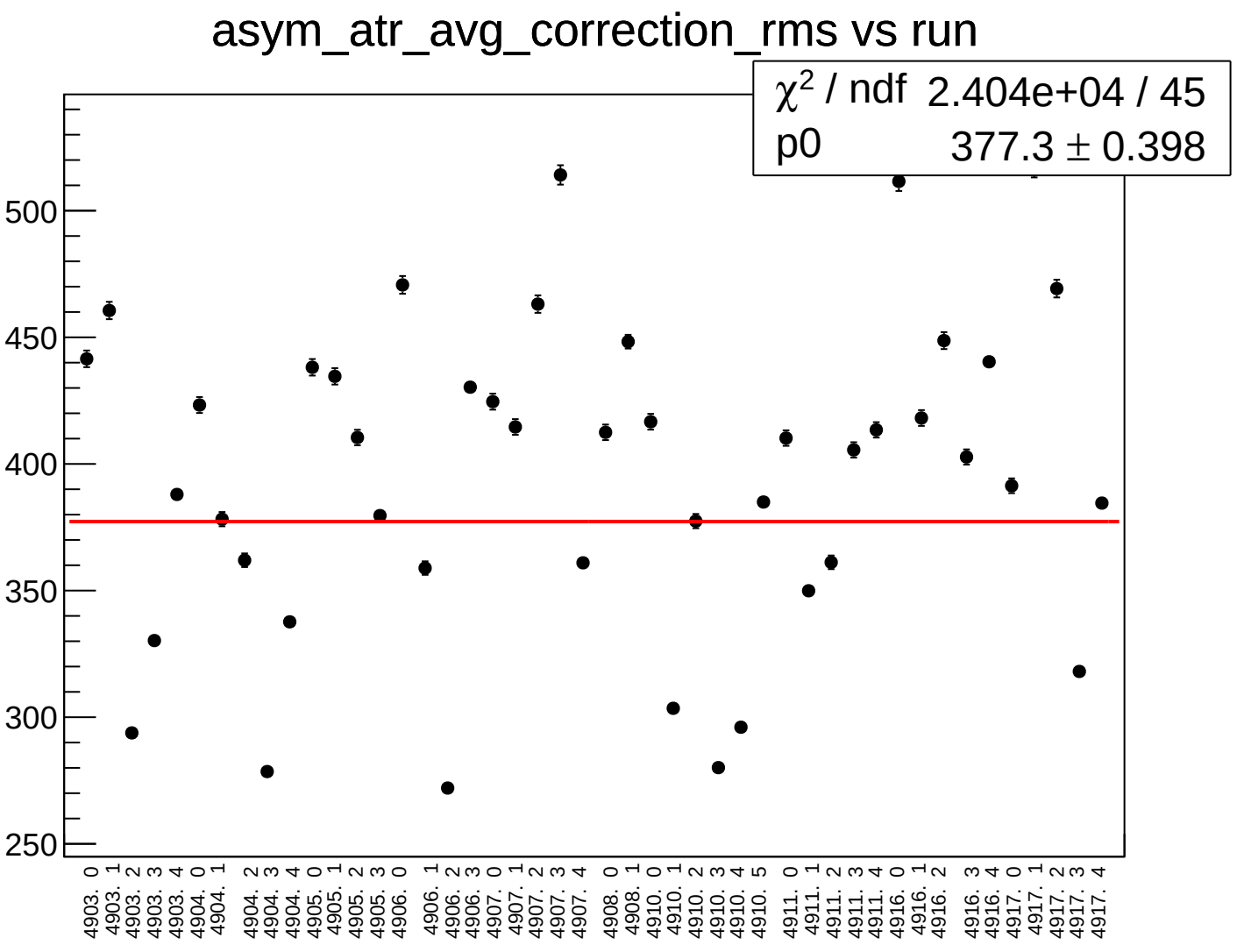

asym_atl_dd_mean vs run
×10^3
χ² / ndf 46.24 / 45
p0 1.406e+04 ± 9395
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 36.24
Std Dev 4.384
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0249
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

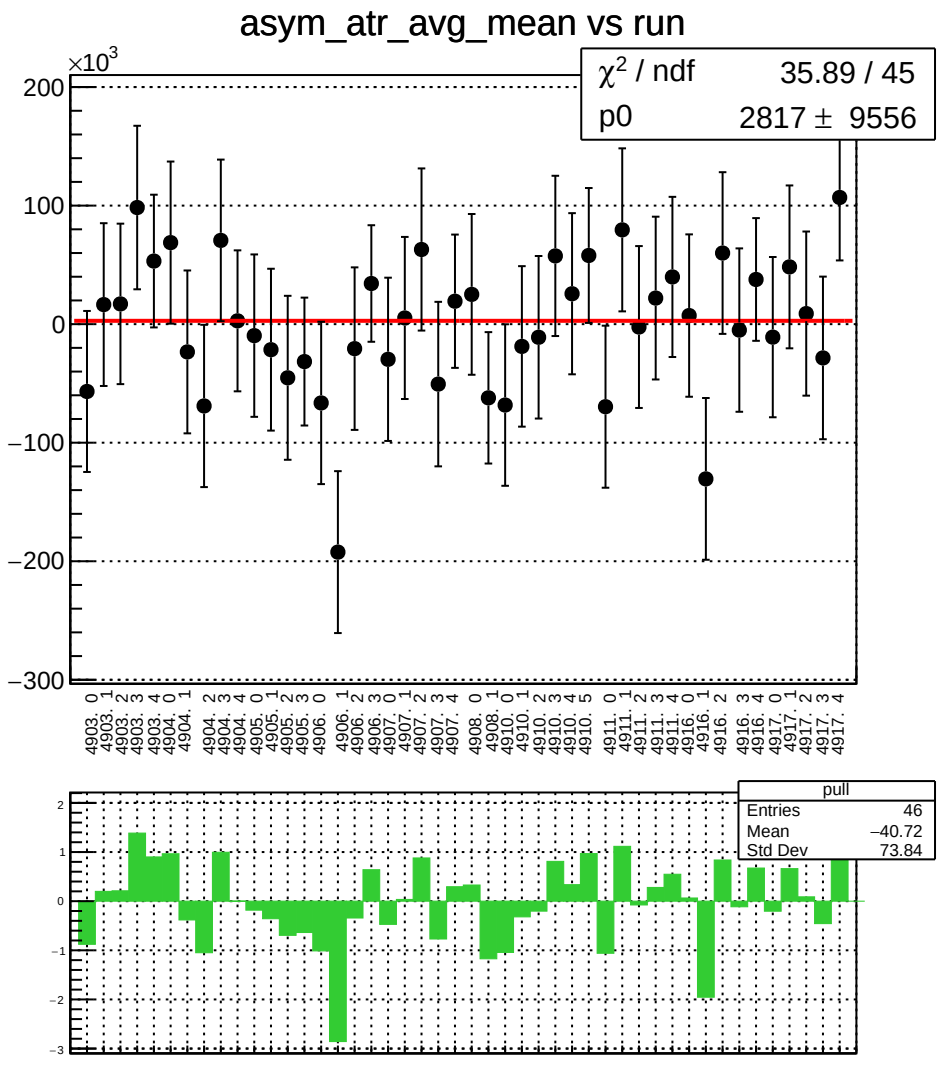

asym_atl_dd_rms vs run
χ² / ndf 36.7 / 45
p0 6380 ± 6.643
6550
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

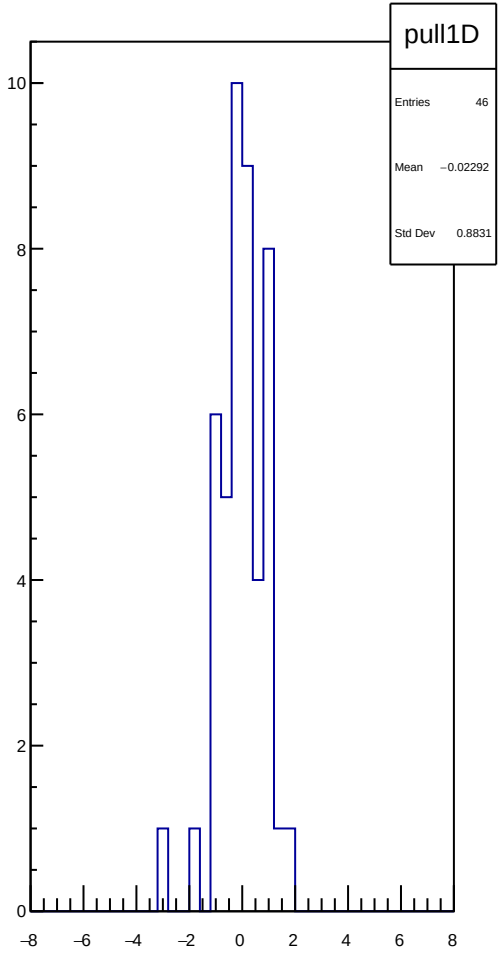

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 36.92 / 45
p0 2788 ± 9538
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −35.52
Std Dev 69.47
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02273
Std Dev 0.8956
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

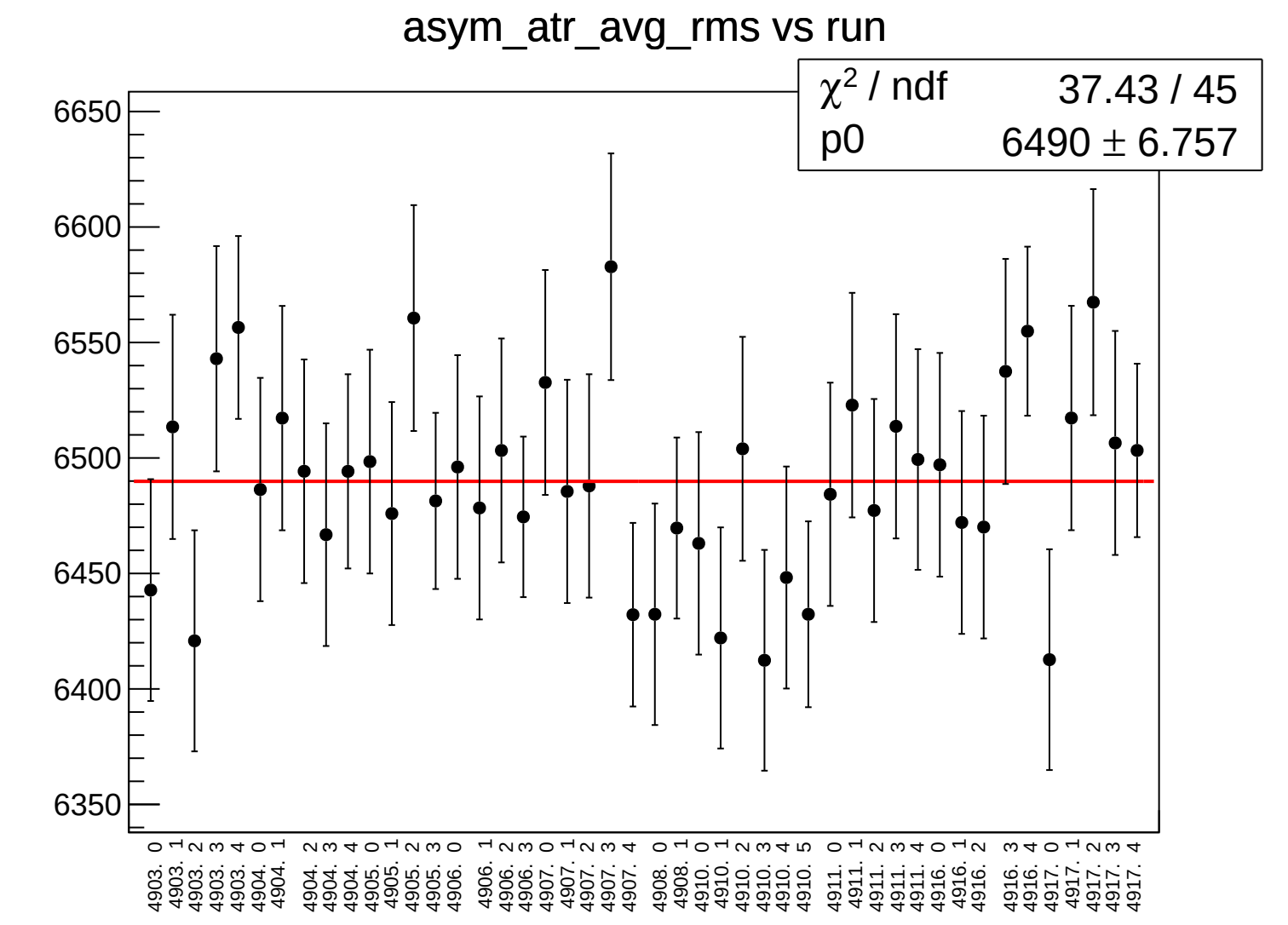

reg_asym_atr_avg_rms vs run
χ² / ndf 35.55 / 45
p0 6477 ± 6.744
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

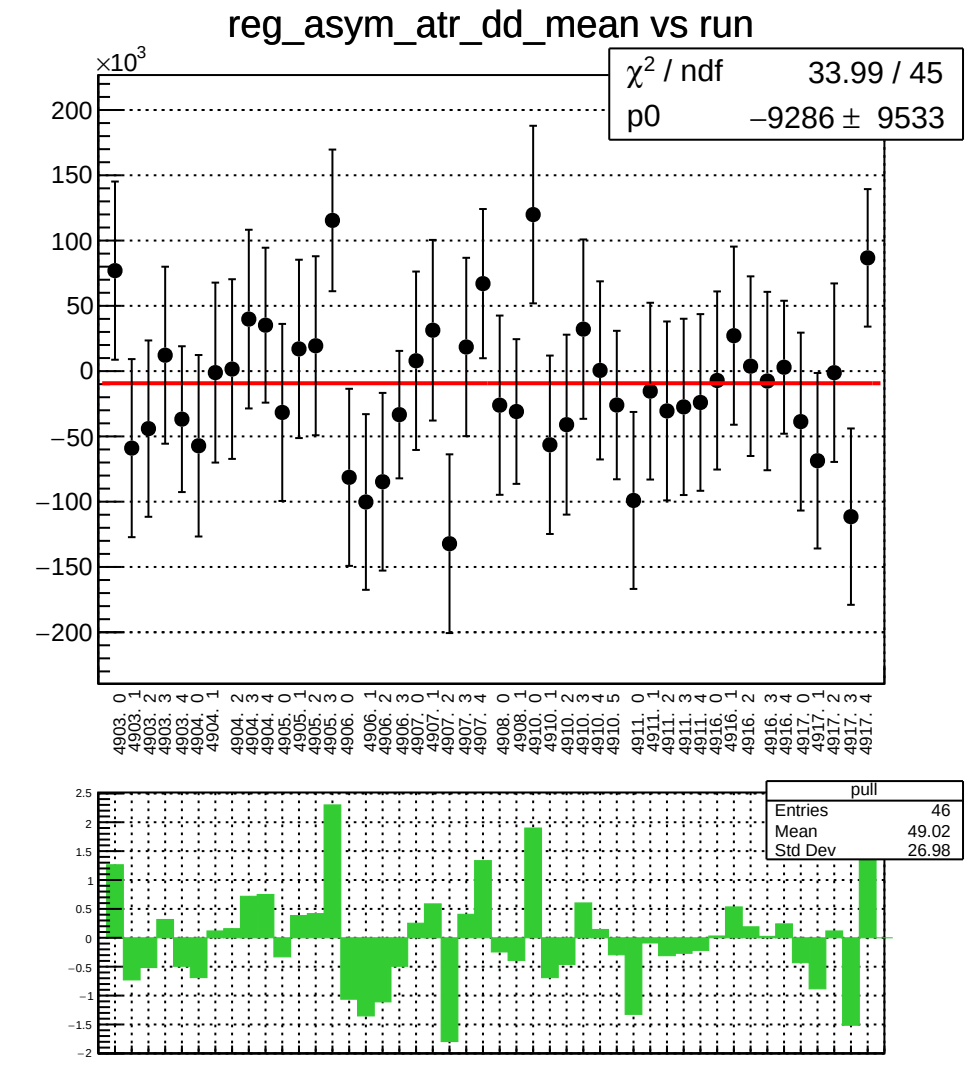

asym_atr_avg_correction_mean vs run
χ² / ndf 39.85 / 45
p0 61.1 ± 562.9
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 315
Std Dev 290.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.009058
Std Dev 0.9307
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

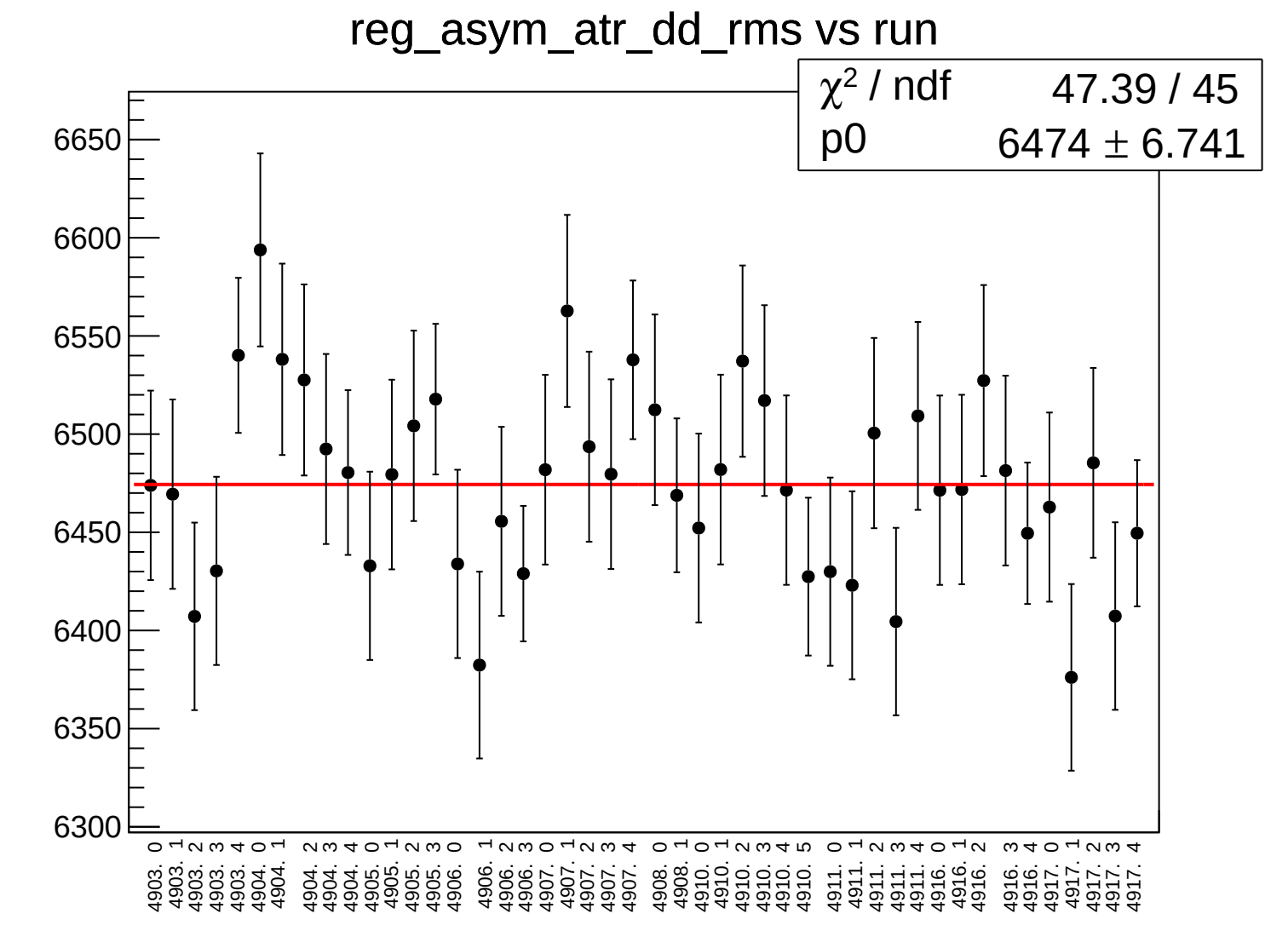

asym_atr_avg_correction_rms vs run
χ² / ndf 2.404e+04 / 45
p0 377.3 ± 0.398
500
450
400
350
300
250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

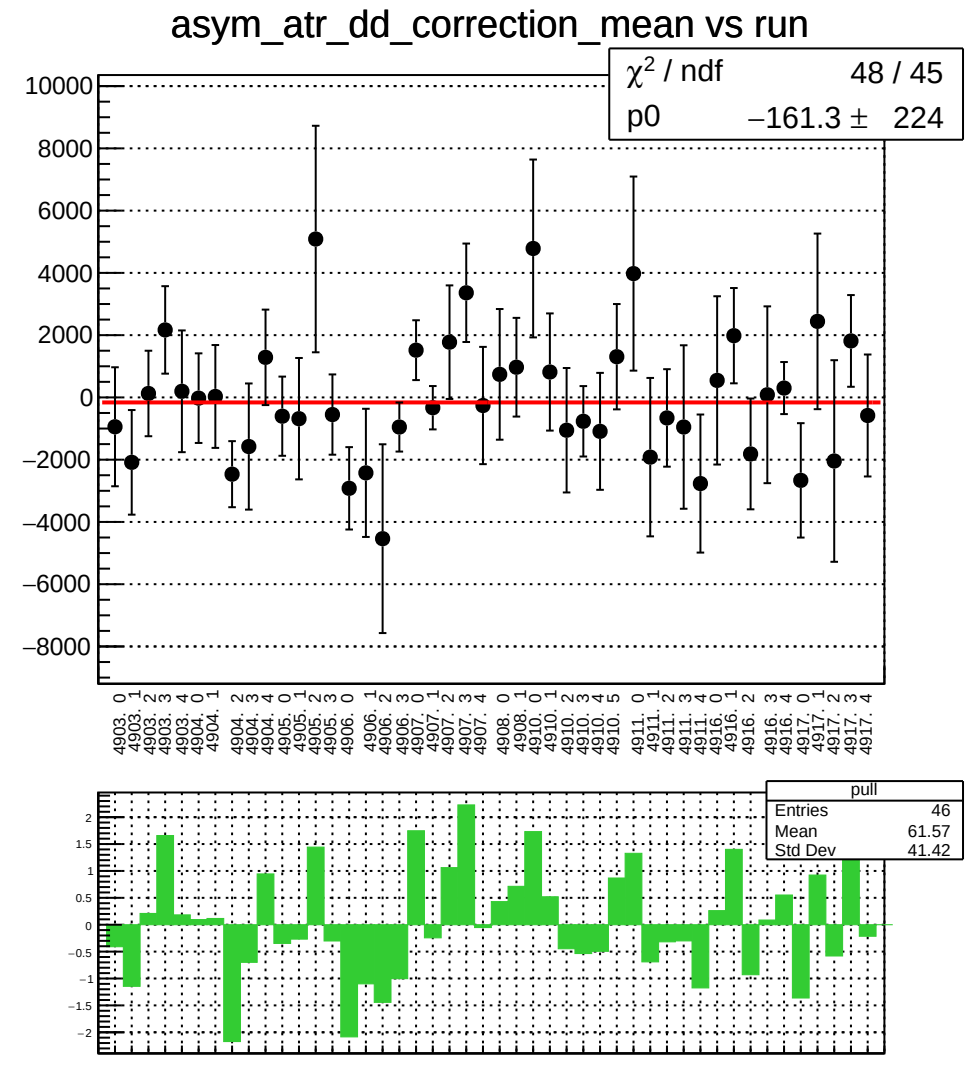

asym_atr_avg_mean vs run
×10^3
χ² / ndf 35.89 / 45
p0 2817 ± 9556
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −40.72
Std Dev 73.84
2
1
0
−1
−2
−3

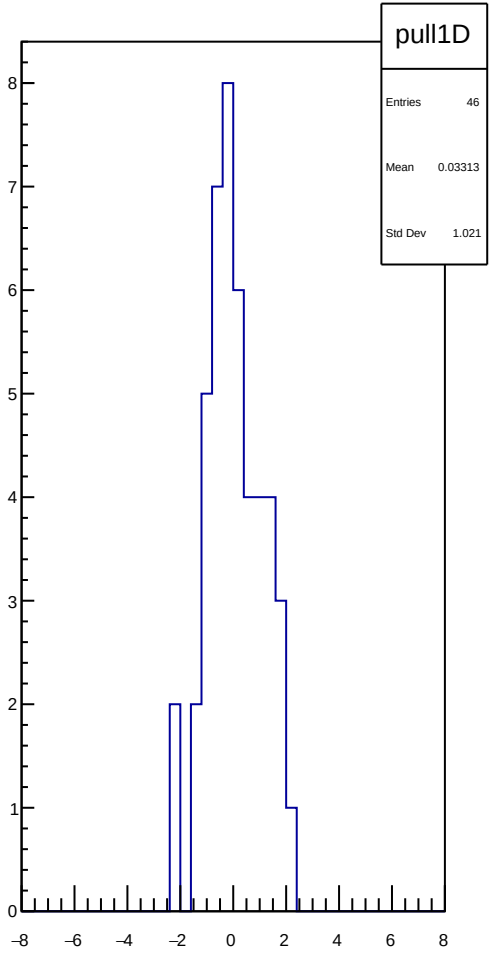

pull1D
Entries 46
Mean −0.02292
Std Dev 0.8831
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

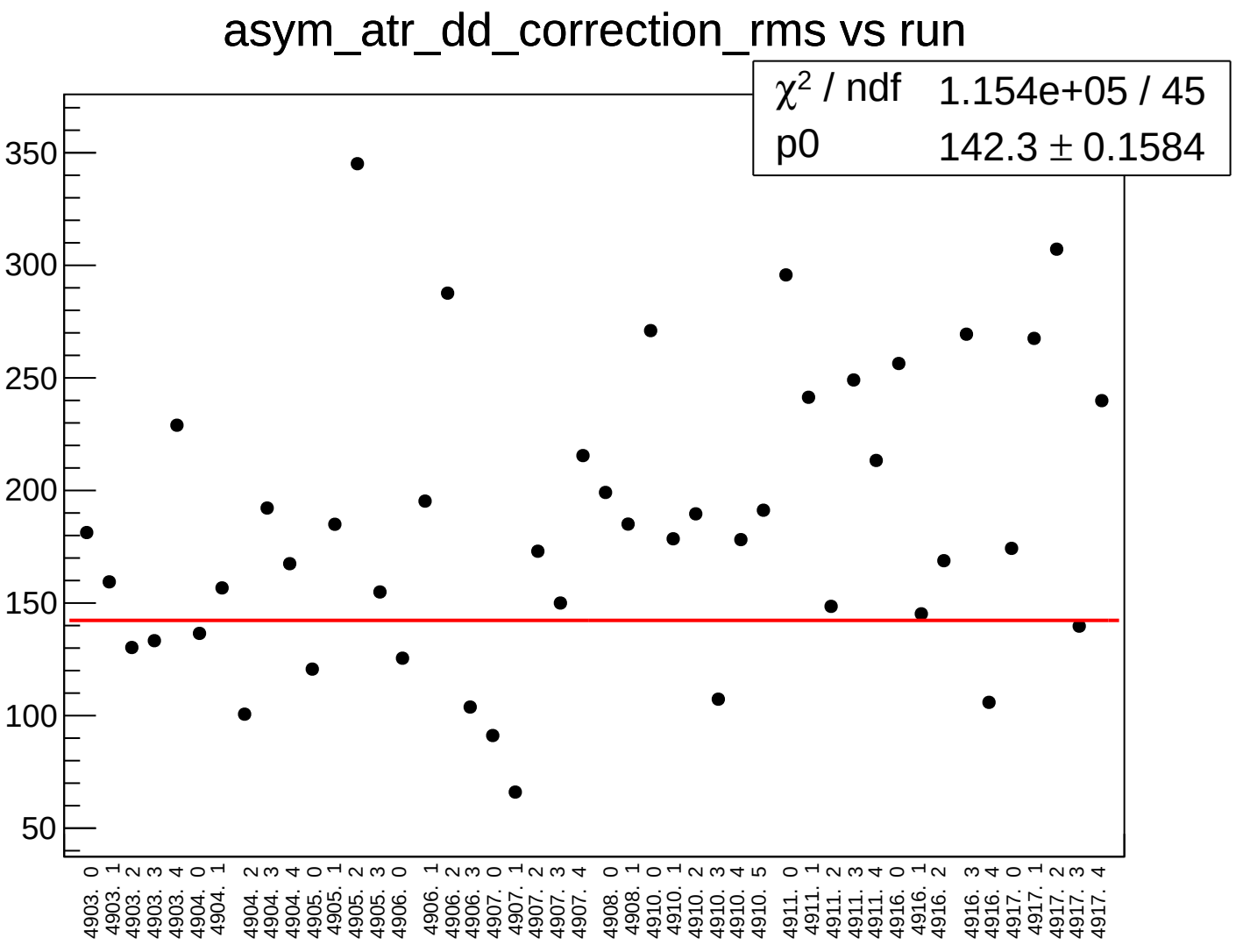

asym_atr_avg_rms vs run
χ² / ndf 37.43 / 45
p0 6490 ± 6.757
6650
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

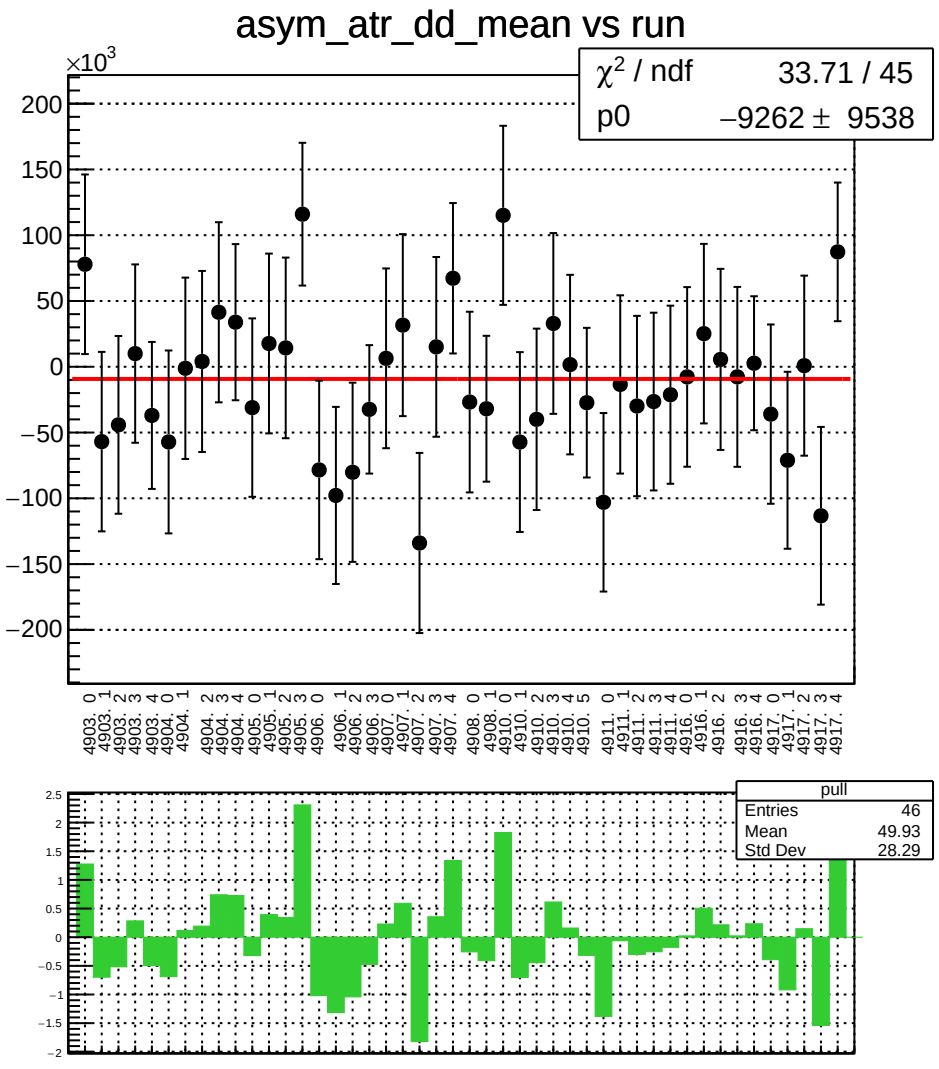

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 33.99 / 45
p0 −9286 ± 9533
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 49.02
Std Dev 26.98
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.02312
Std Dev 0.8593
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

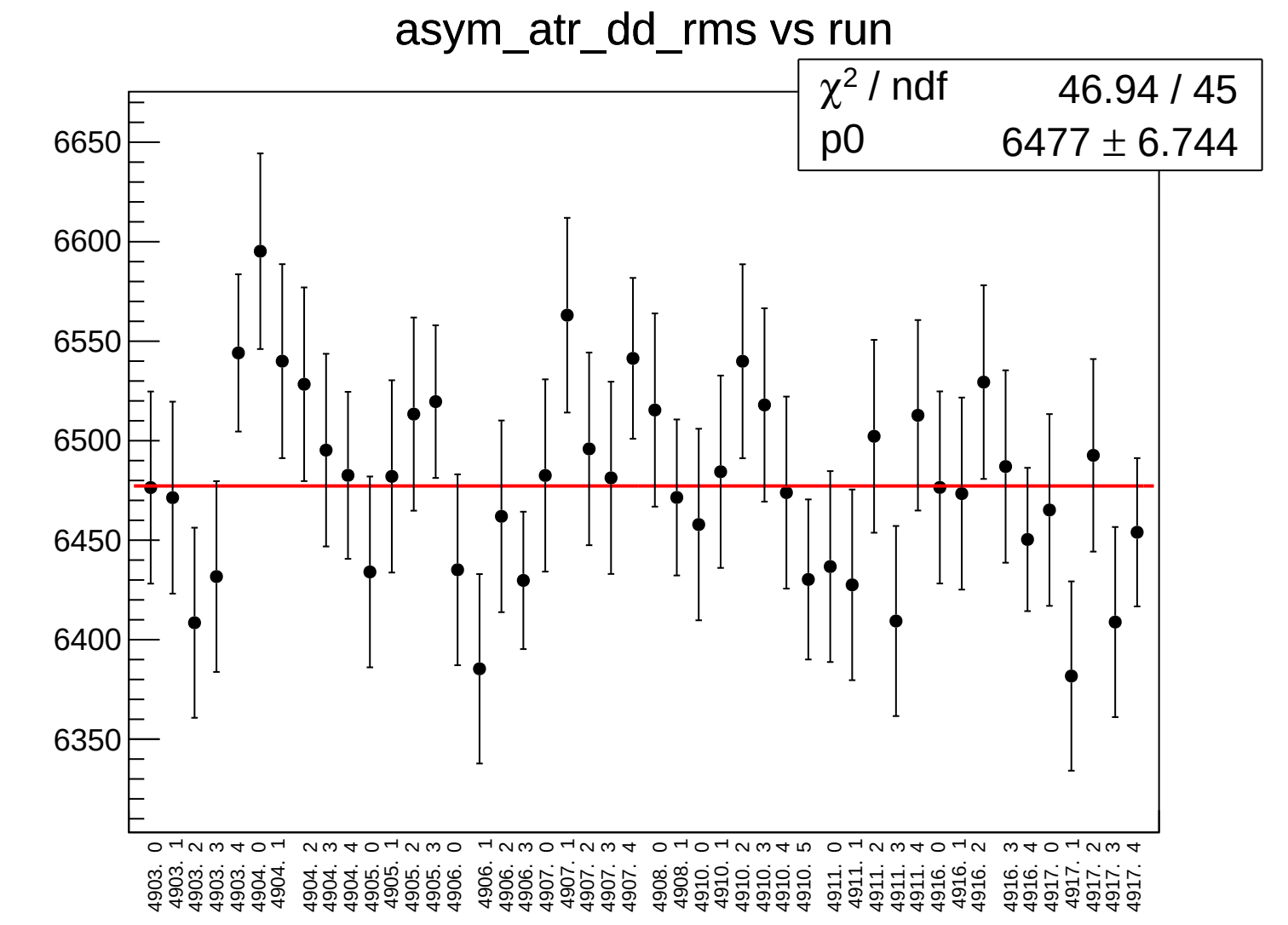

reg_asym_atr_dd_rms vs run
χ² / ndf 47.39 / 45
p0 6474 ± 6.741
6650
6600
6550
6500
6450
6400
6350
6300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

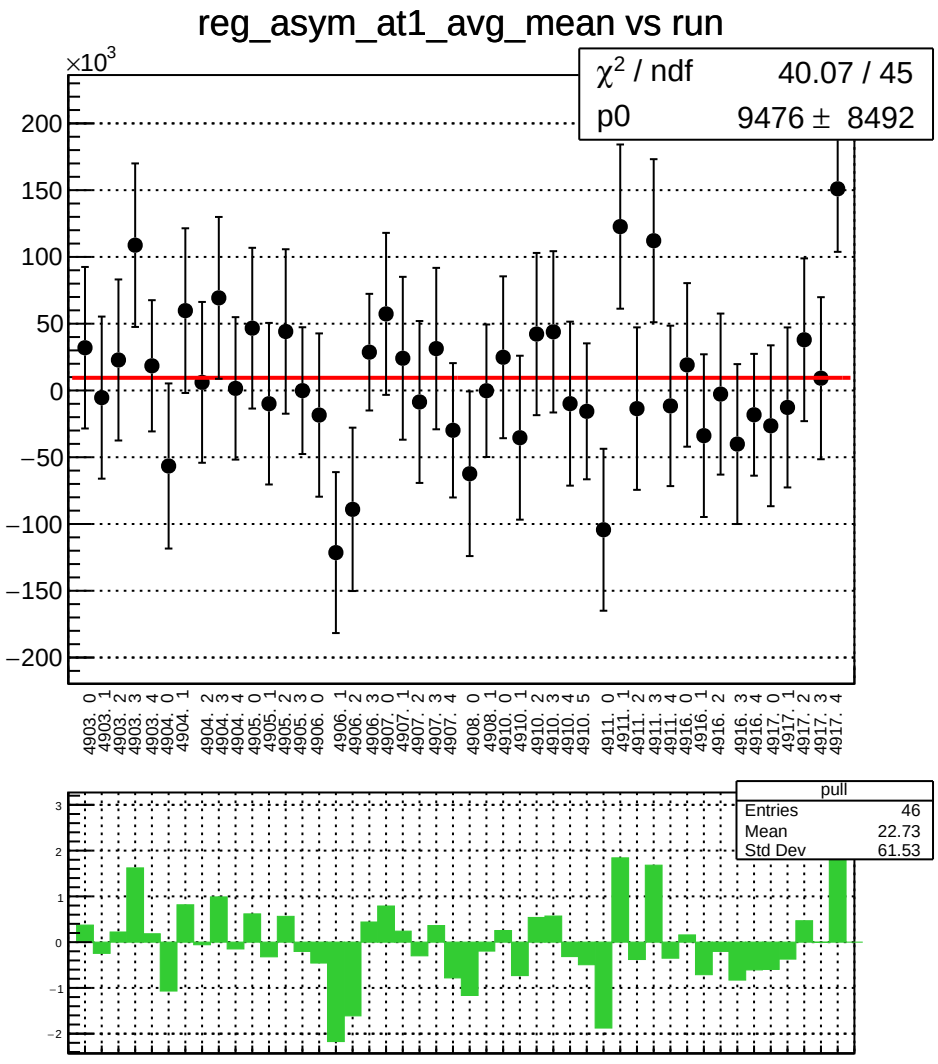

asym_atr_dd_correction_mean vs run
χ² / ndf 48 / 45
p0 −161.3 ± 224
pull
Entries 46
Mean 61.57
Std Dev 41.42

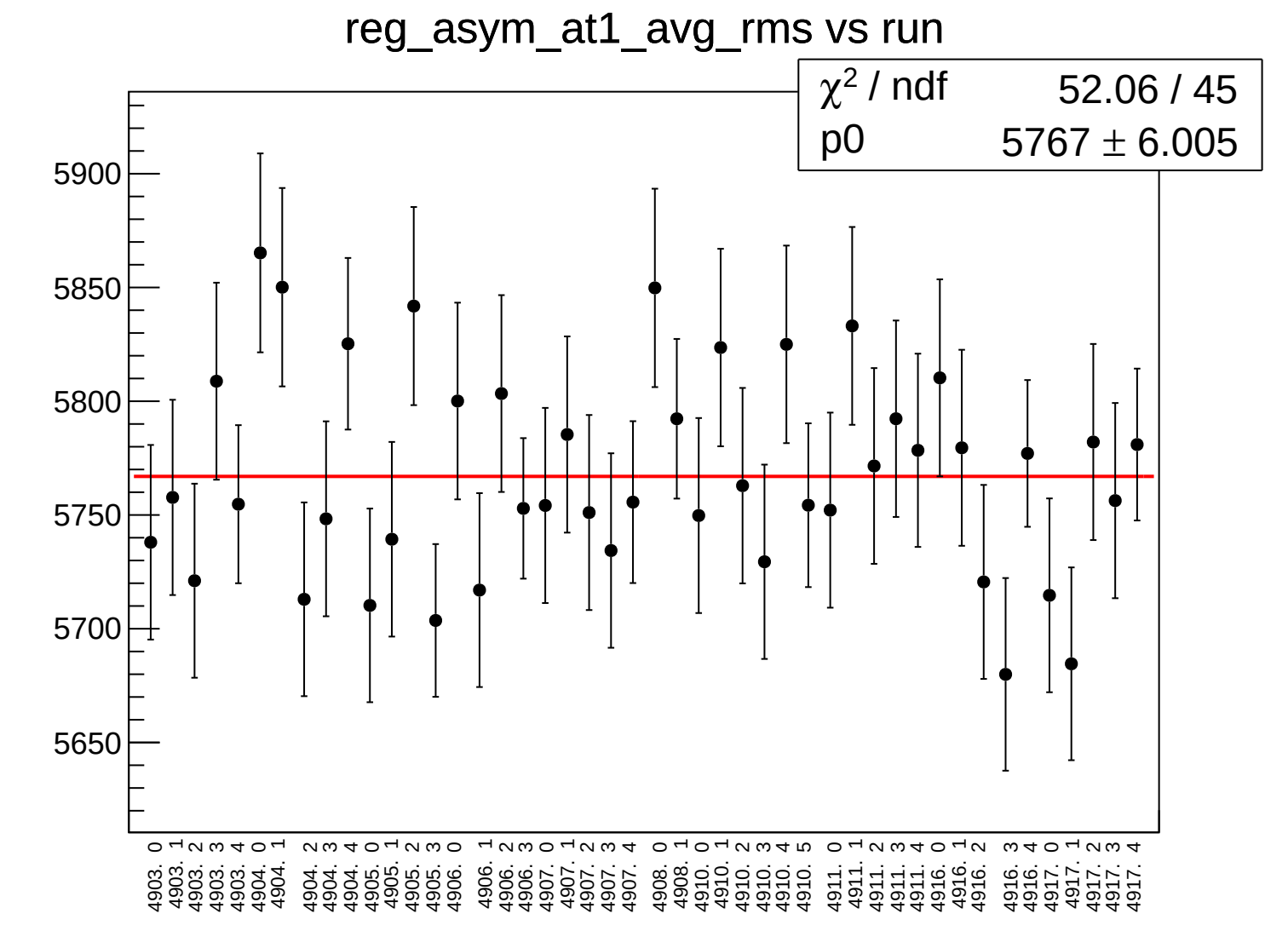

pull1D
Entries 46
Mean 0.03313
Std Dev 1.021

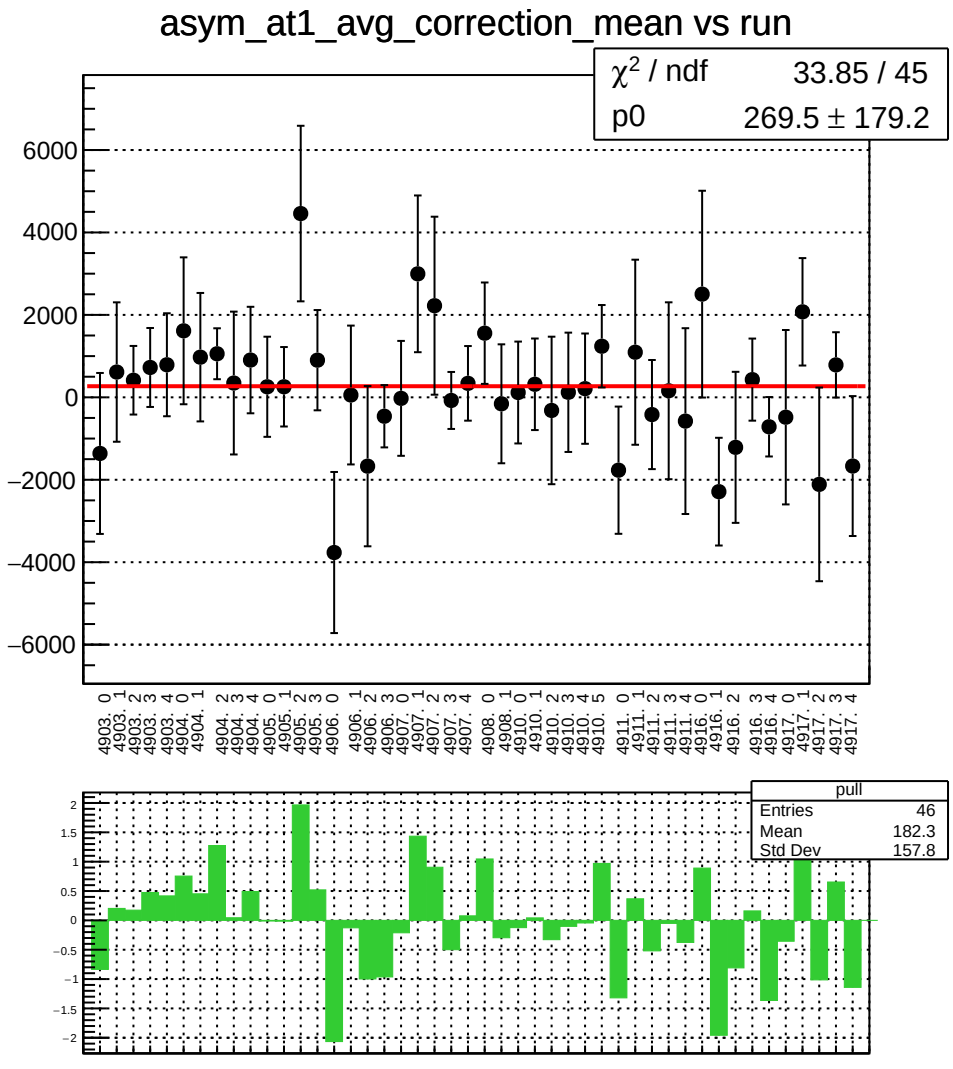

asym_atr_dd_correction_rms vs run
χ² / ndf 1.154e+05 / 45
p0 142.3 ± 0.1584
350
300
250
200
150
100
50
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

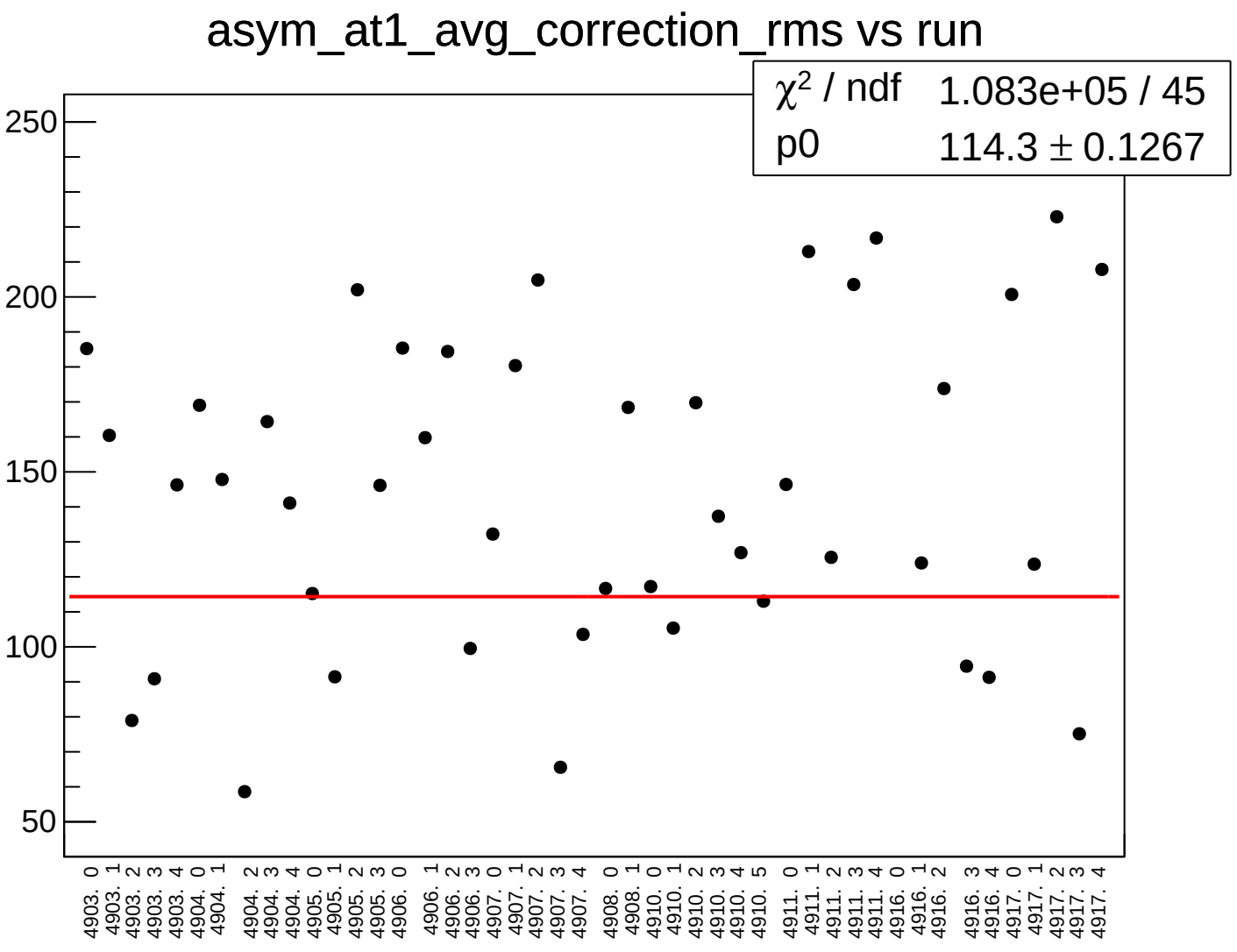

asym_atr_dd_mean vs run
×10^3
χ² / ndf 33.71 / 45
p0 −9262 ± 9538
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 49.93
Std Dev 28.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.02308
Std Dev 0.8557
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

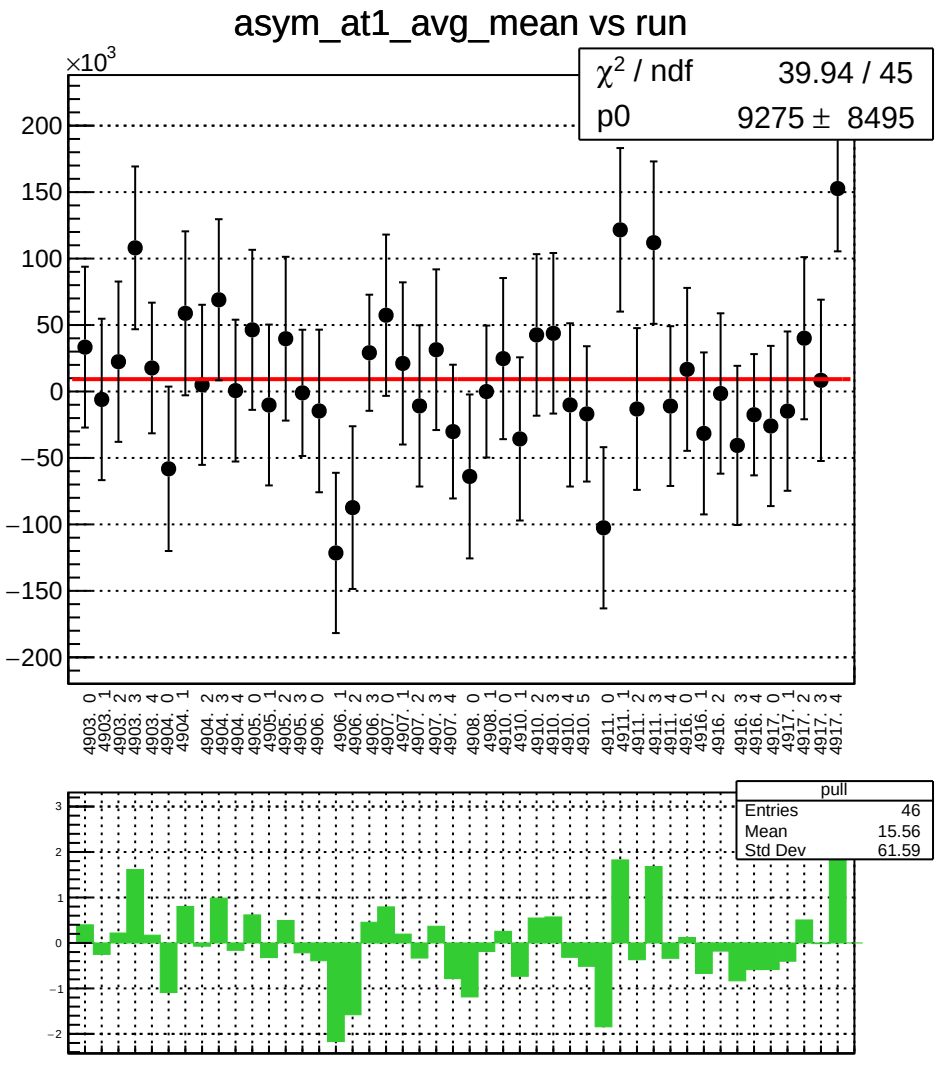

asym_atr_dd_rms vs run
χ² / ndf 46.94 / 45
p0 6477 ± 6.744
6650
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

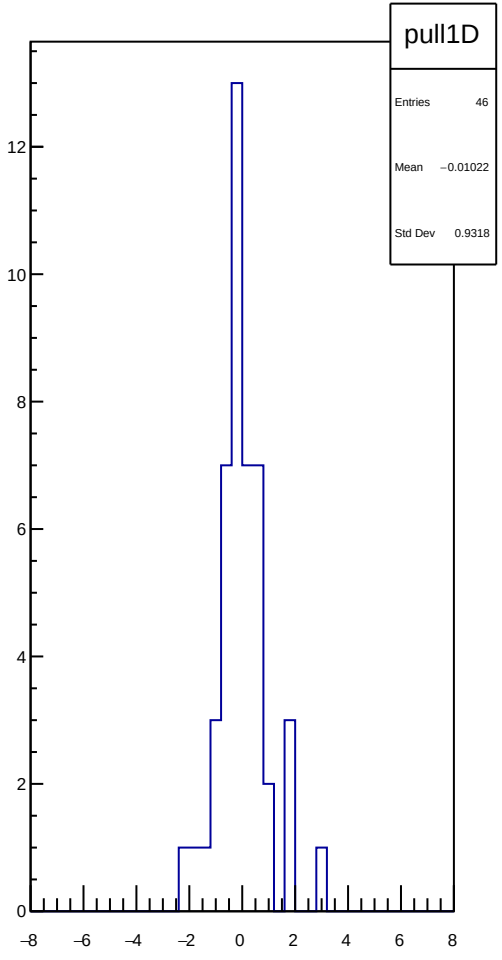

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 40.07 / 45
p0 9476 ± 8492
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 22.73
Std Dev 61.53
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009978
Std Dev 0.9333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

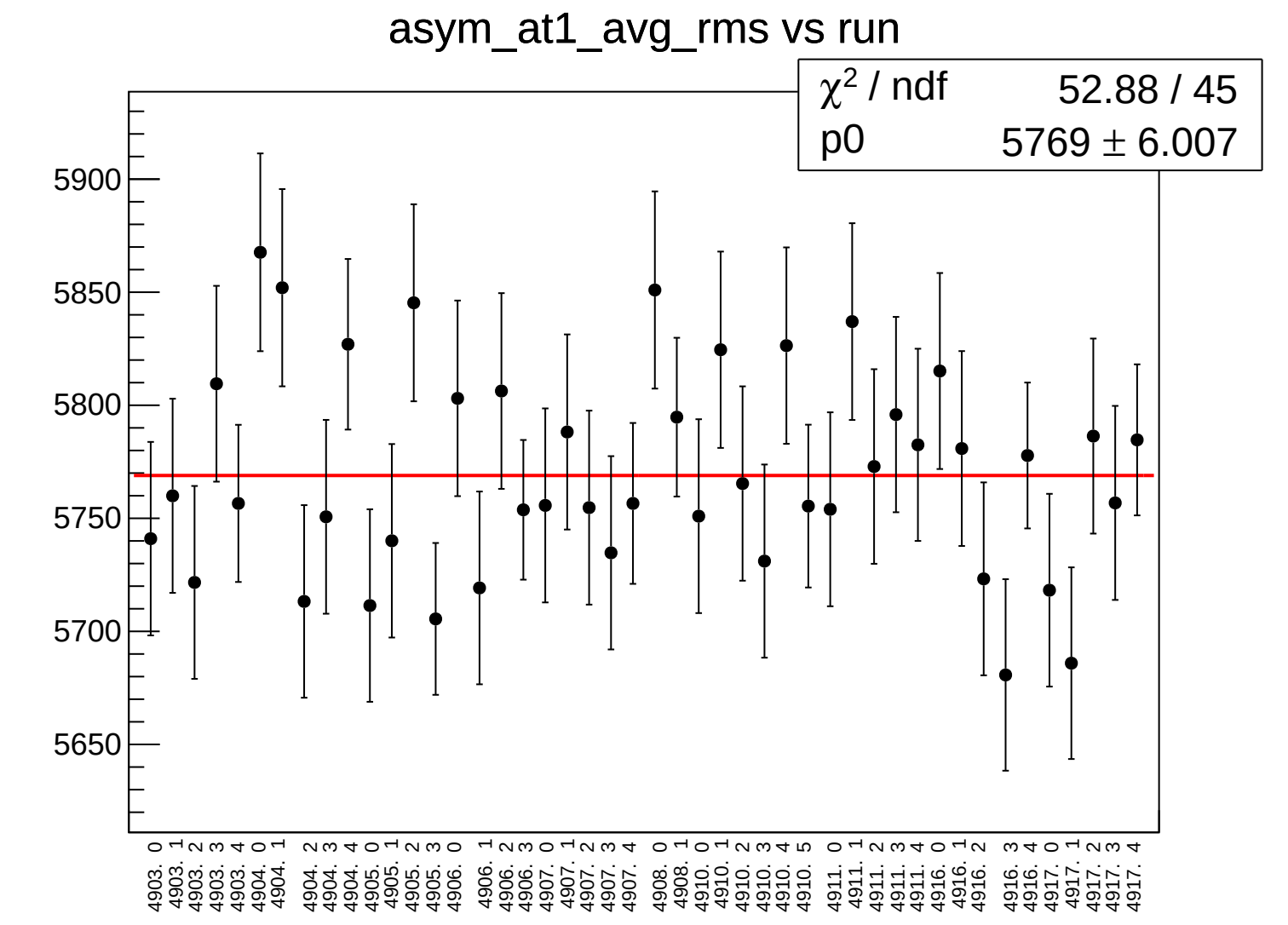

reg_asym_at1_avg_rms vs run
χ² / ndf 52.06 / 45
p0 5767 ± 6.005
5900
5850
5800
5750
5700
5650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

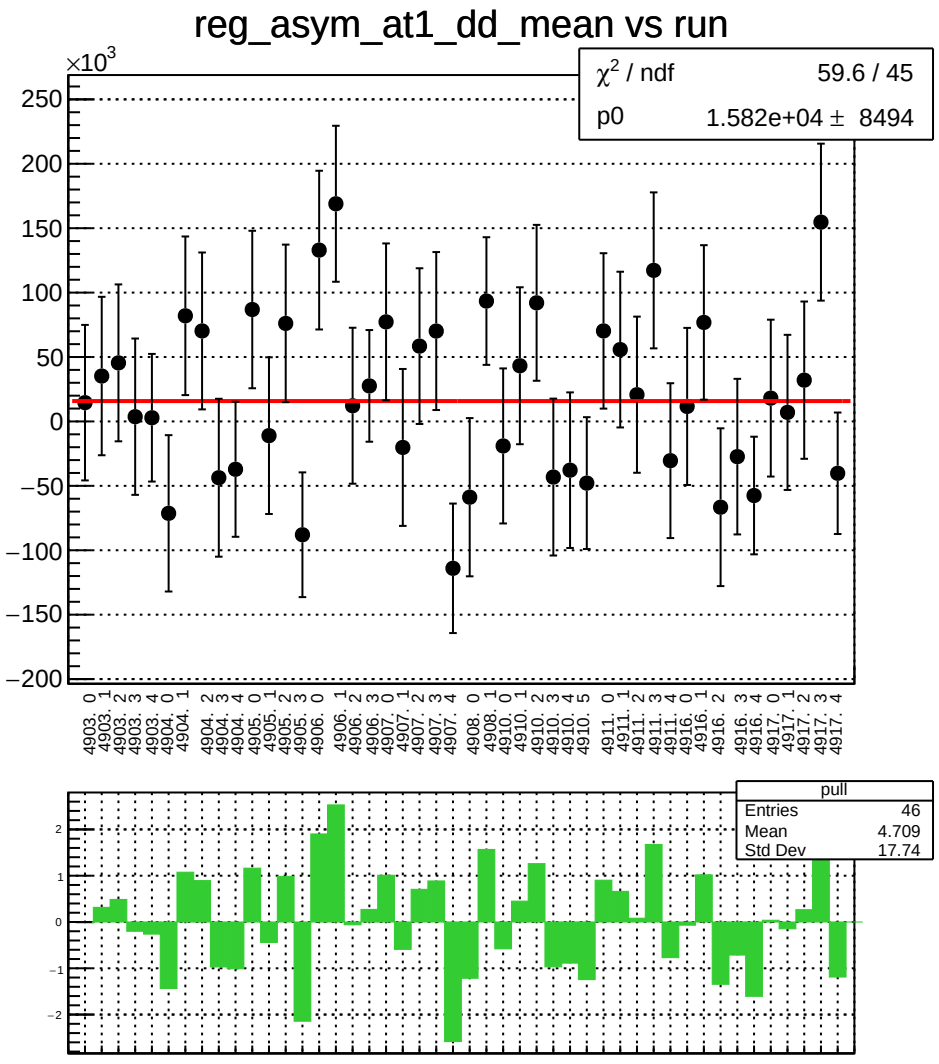

asym_at1_avg_correction_mean vs run
χ² / ndf 33.85 / 45
p0 269.5 ± 179.2
6000
4000
2000
0
−2000
−4000
−6000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 182.3
Std Dev 157.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01776
Std Dev 0.8576
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_correction_rms vs run
χ² / ndf 1.083e+05 / 45
p0 114.3 ± 0.1267
250
200
150
100
50
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_at1_avg_mean vs run
×10^3
χ² / ndf 39.94 / 45
p0 9275 ± 8495
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 15.56
Std Dev 61.59
3
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01022
Std Dev 0.9318
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_rms vs run
χ^2 / ndf 52.88 / 45
p0 5769 ± 6.007
5900
5850
5800
5750
5700
5650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 59.6 / 45
p0 1.582e+04 ± 8494
250
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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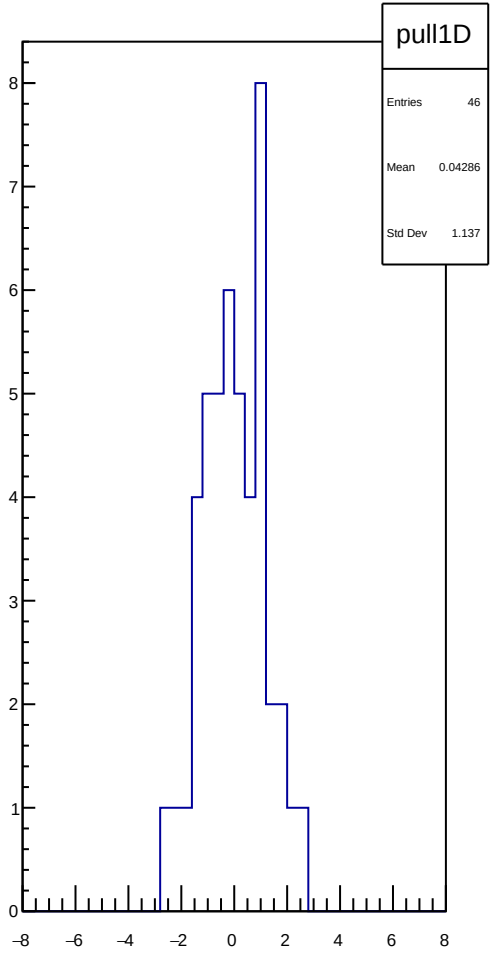
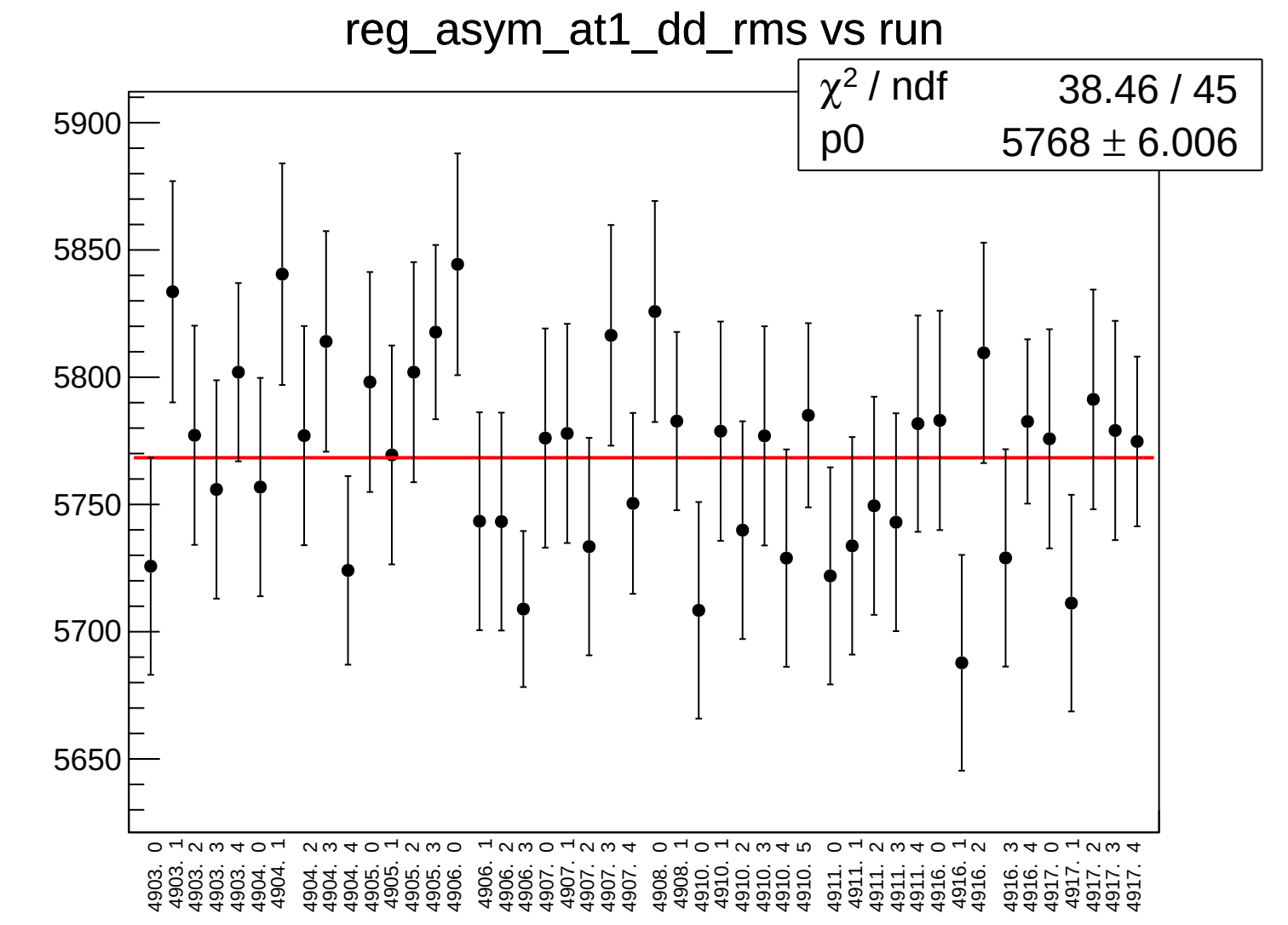
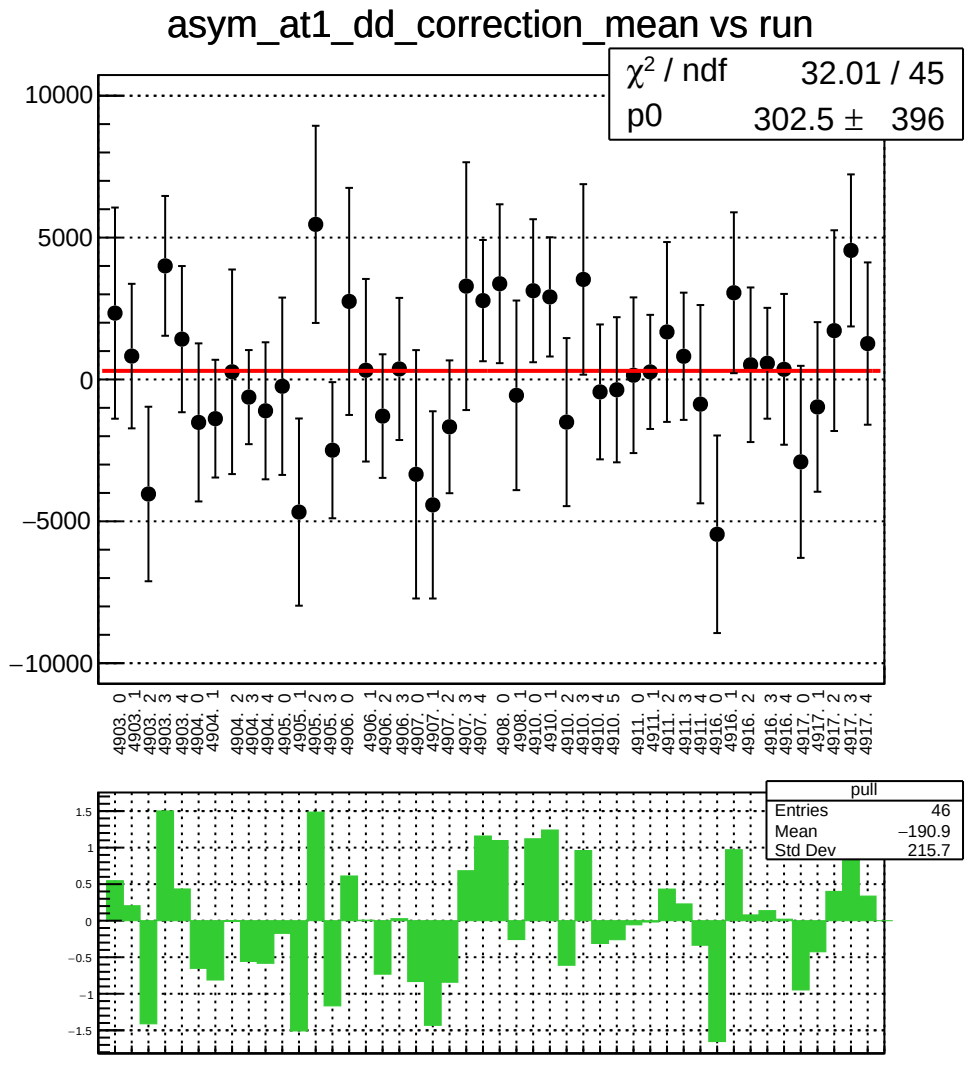
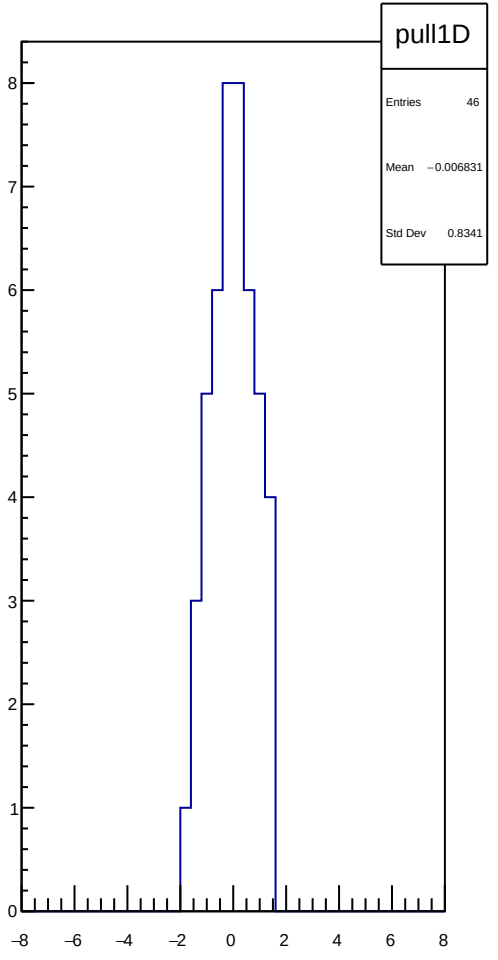
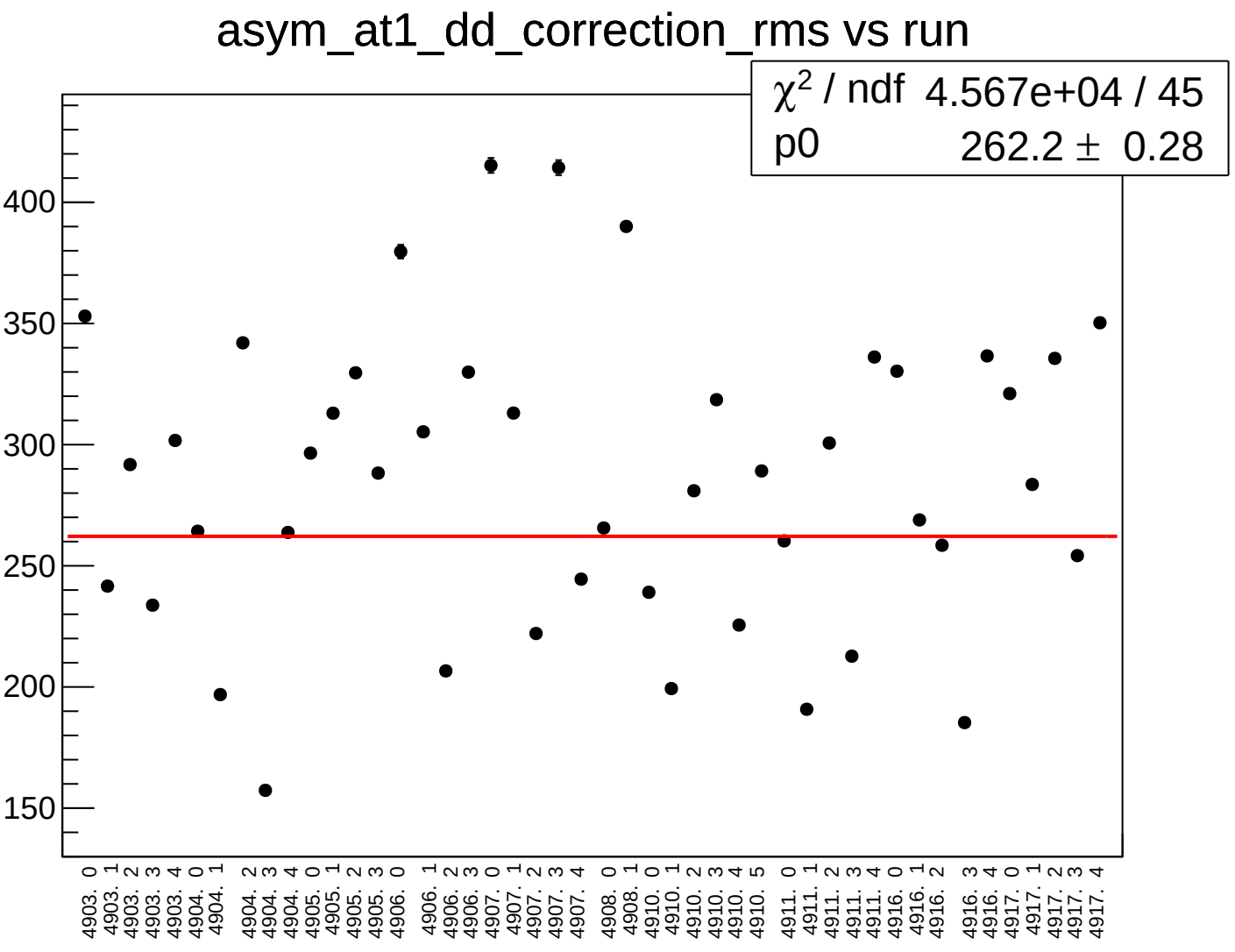
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 4.709
Std Dev 17.74
2
1
0
−1
−2

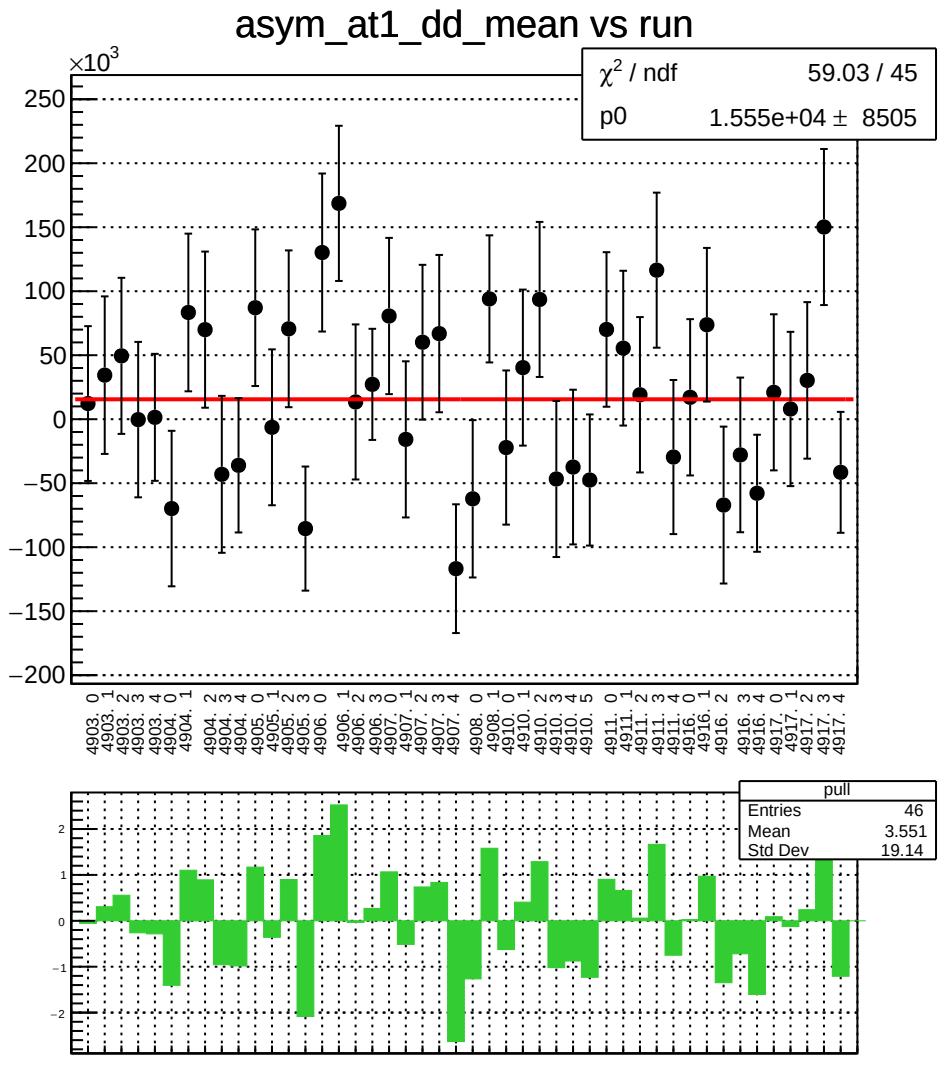

pull1D
Entries 46
Mean 0.04286
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

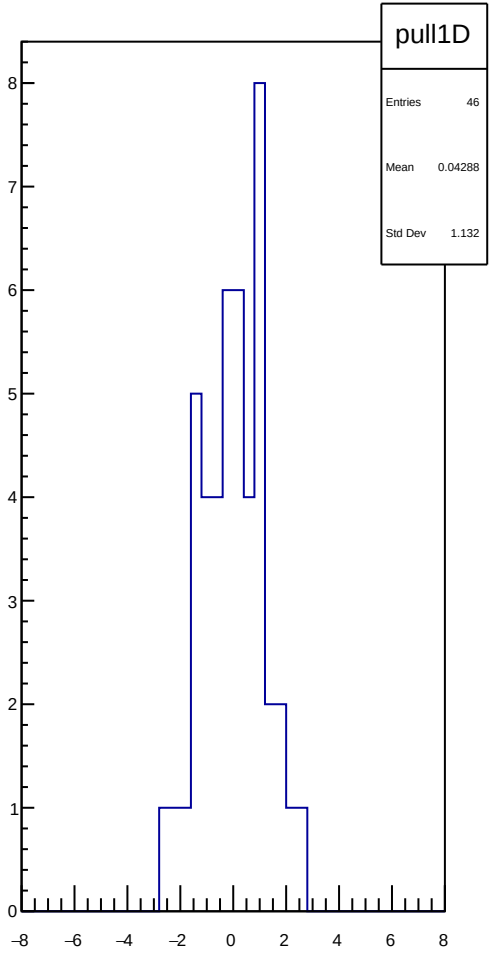

reg_asym_at1_dd_rms vs run
χ² / ndf 38.46 / 45
p0 5768 ± 6.006
5900
5850
5800
5750
5700
5650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

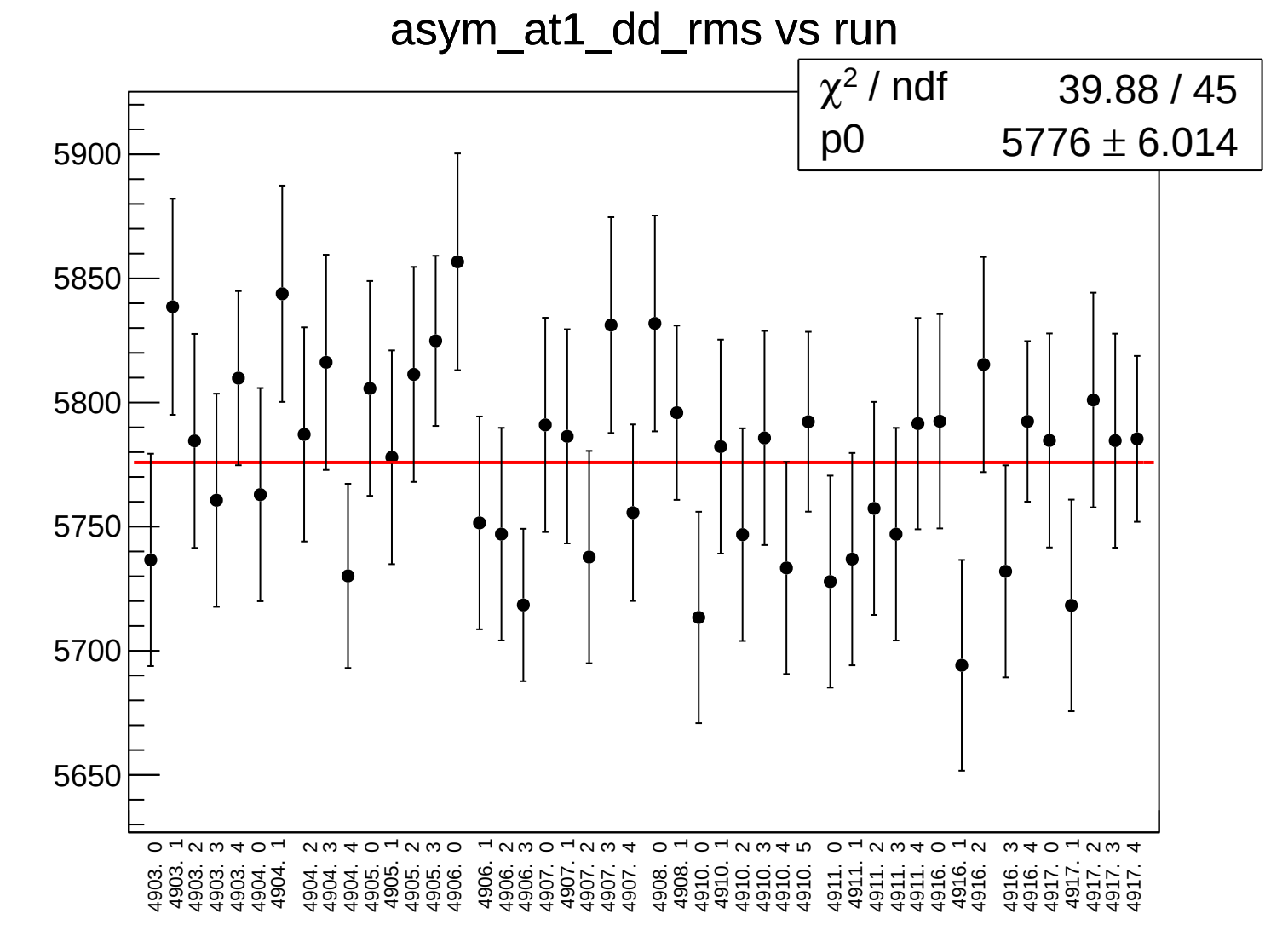

asym_at1_dd_correction_mean vs run
χ² / ndf 32.01 / 45
p0 302.5 ± 396
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −190.9
Std Dev 215.7
1.5
1
0.5
0
−0.5
−1
−1.5

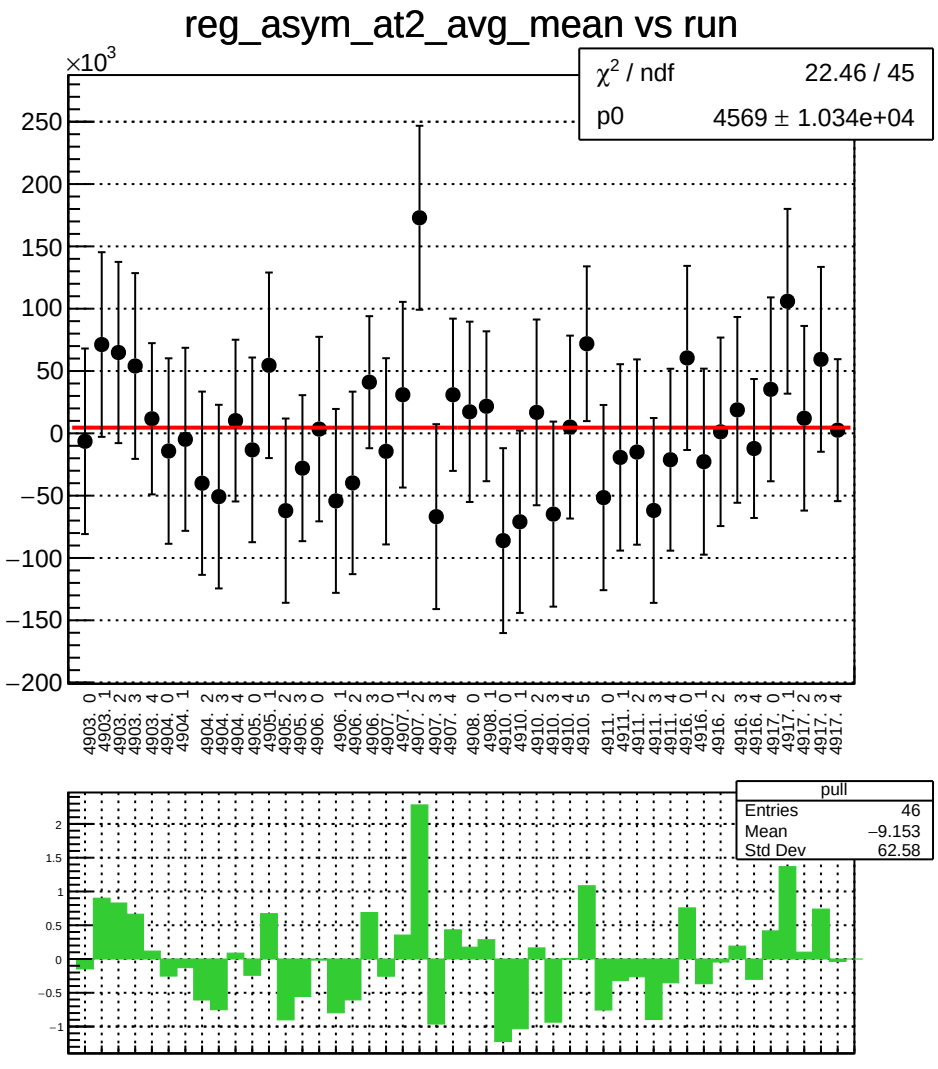

pull1D
Entries 46
Mean −0.006831
Std Dev 0.8341
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

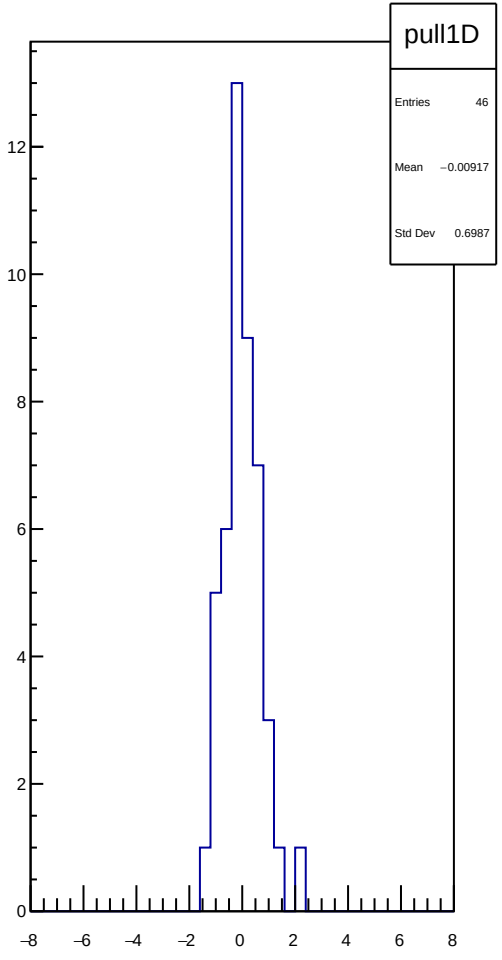

asym_at1_dd_correction_rms vs run
χ² / ndf 4.567e+04 / 45
p0 262.2 ± 0.28
400
350
300
250
200
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

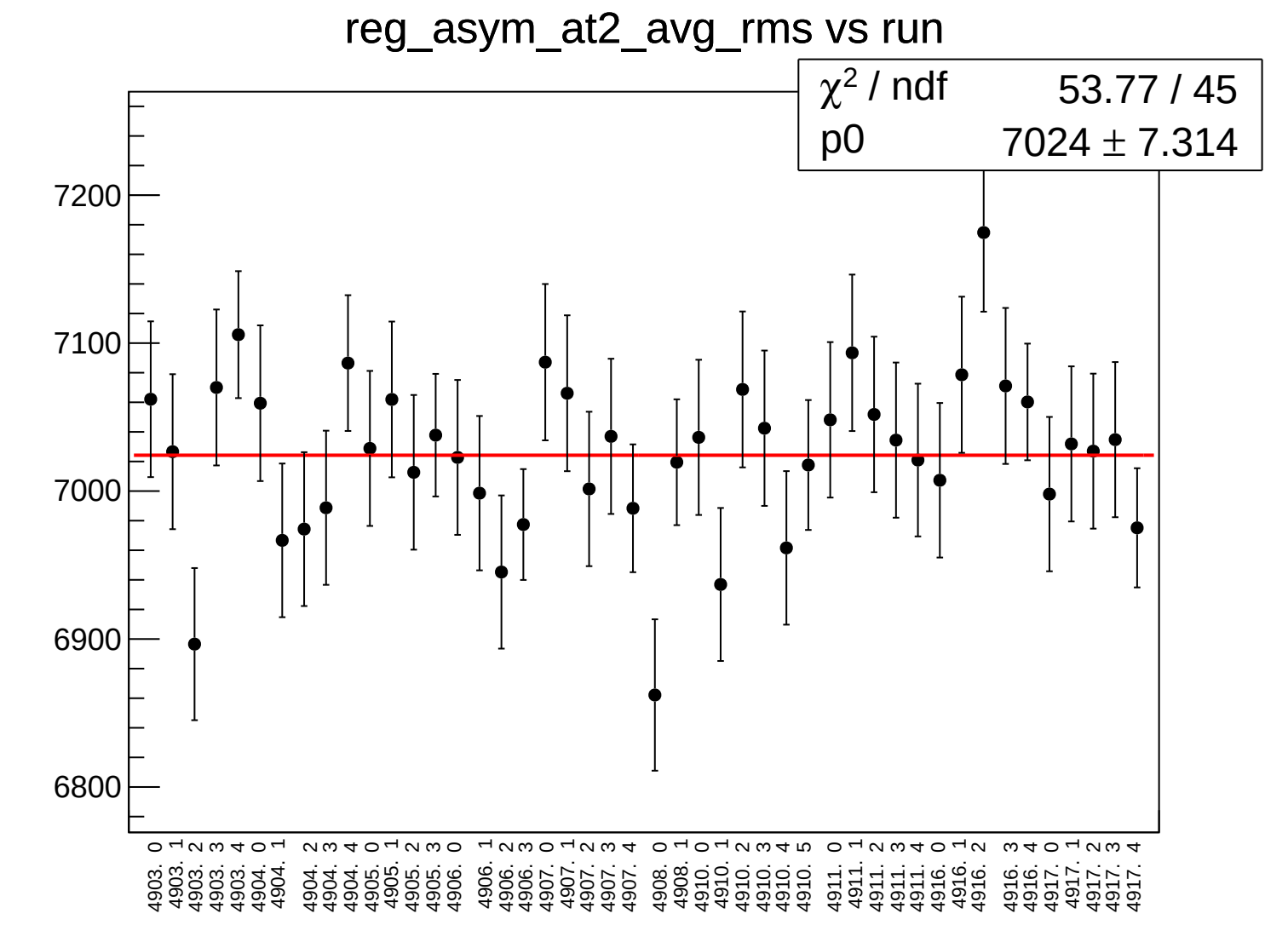

asym_at1_dd_mean vs run
×10^3
χ² / ndf 59.03 / 45
p0 1.555e+04 ± 8505
250
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 3.551
Std Dev 19.14
2
1
0
−1
−2

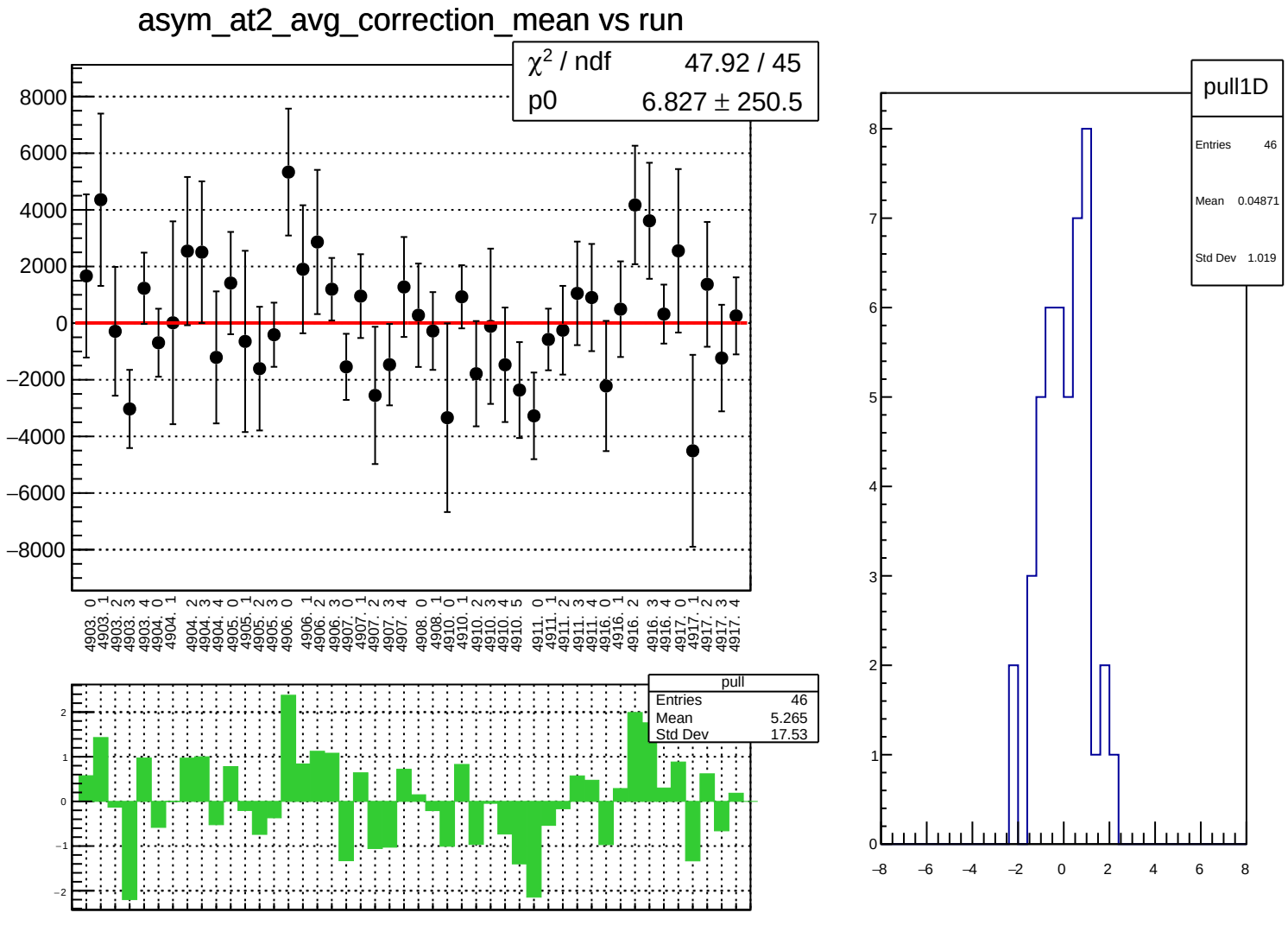

pull1D
Entries 46
Mean 0.04288
Std Dev 1.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

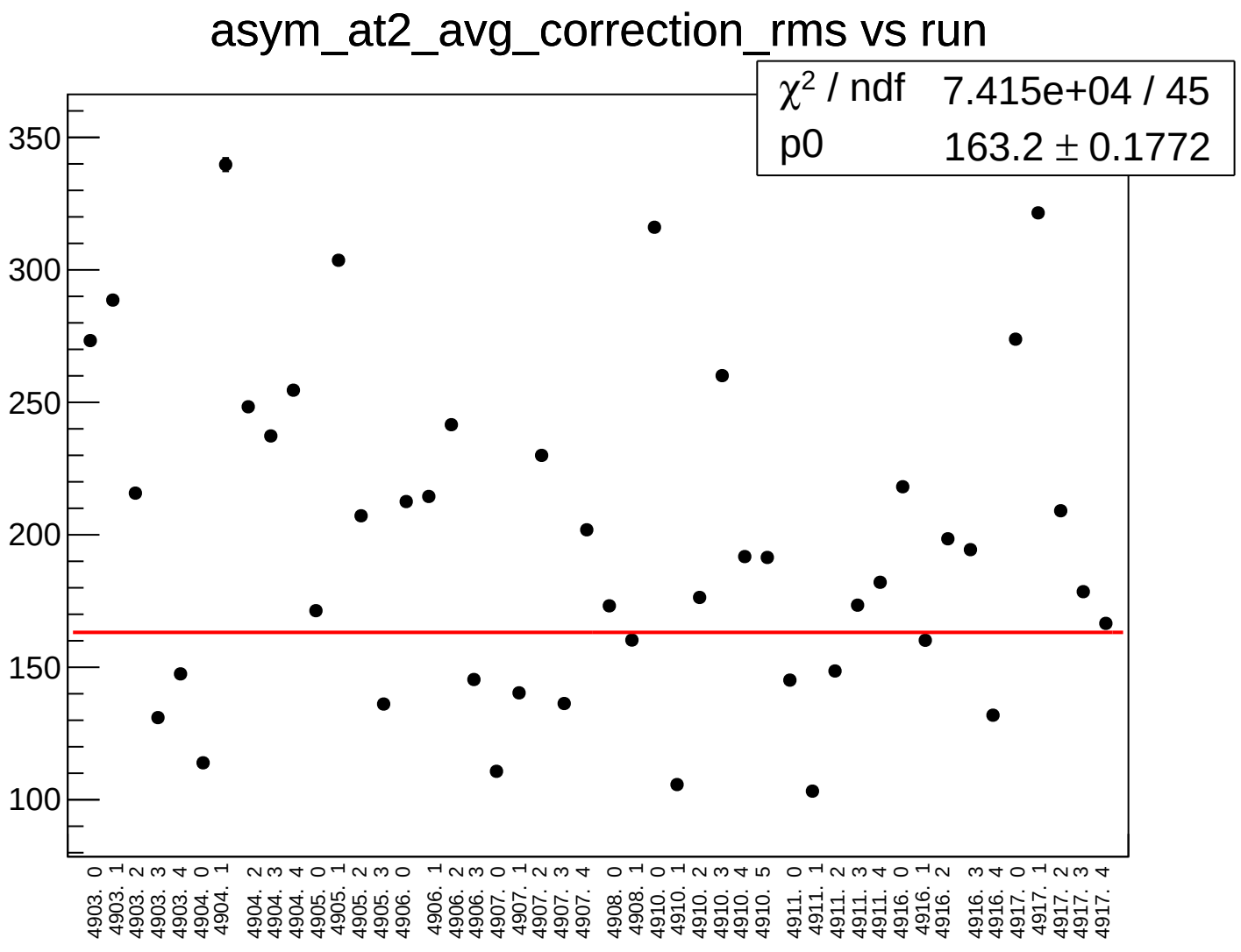

asym_at1_dd_rms vs run
χ² / ndf 39.88 / 45
p0 5776 ± 6.014
5900
5850
5800
5750
5700
5650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 22.46 / 45
p0 4569 ± 1.034e+04
250
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −9.153
Std Dev 62.58
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 46
Mean −0.00917
Std Dev 0.6987
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 53.77 / 45
p0 7024 ± 7.314
7200
7100
7000
6900
6800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_at2_avg_correction_mean vs run
χ² / ndf 47.92 / 45
p0 6.827 ± 250.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 5.265
Std Dev 17.53
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04871
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_correction_rms vs run
χ² / ndf 7.415e+04 / 45
p0 163.2 ± 0.1772
350
300
250
200
150
100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
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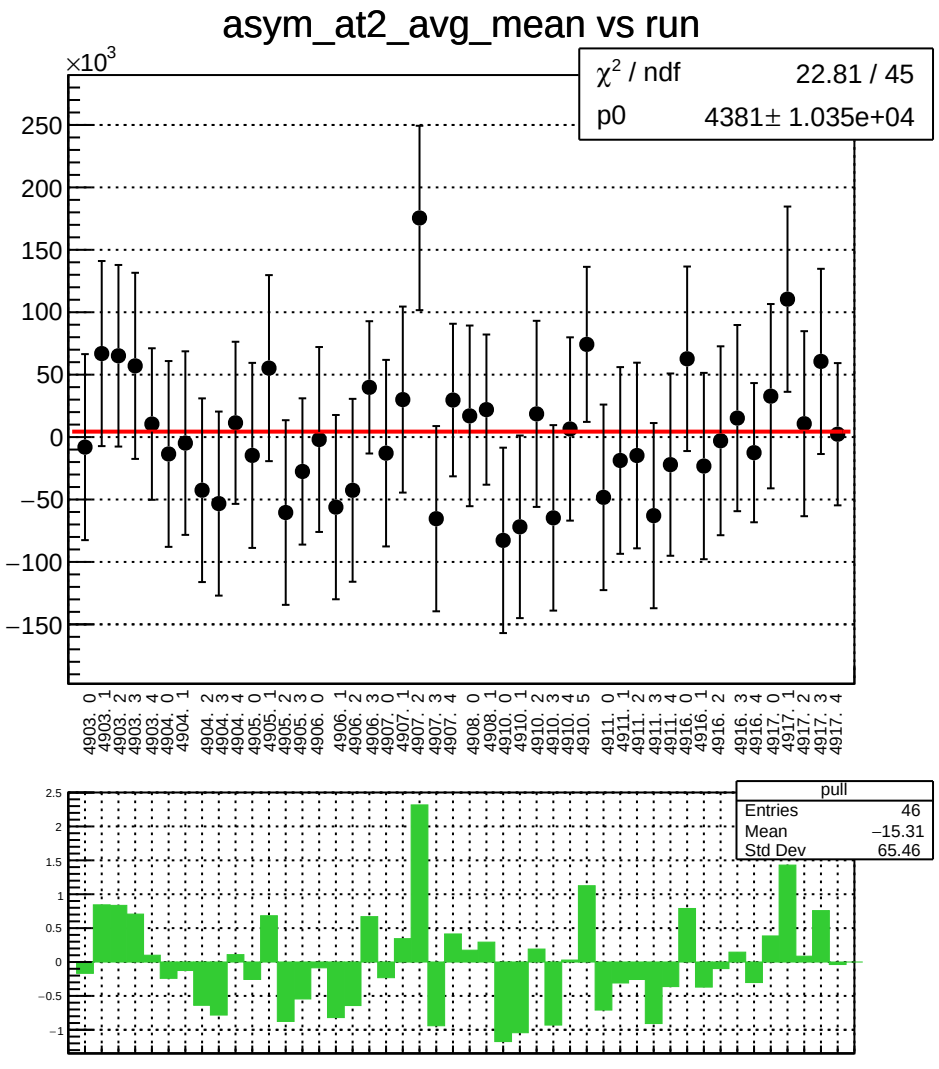
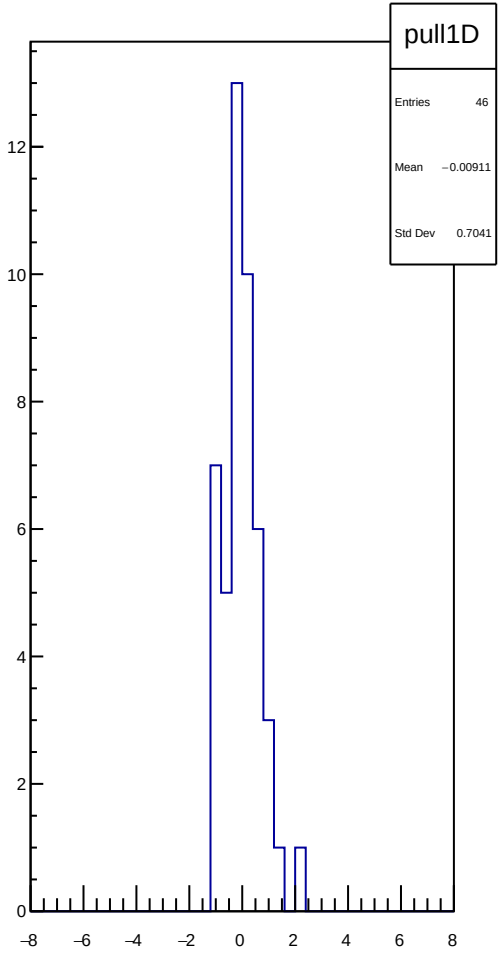
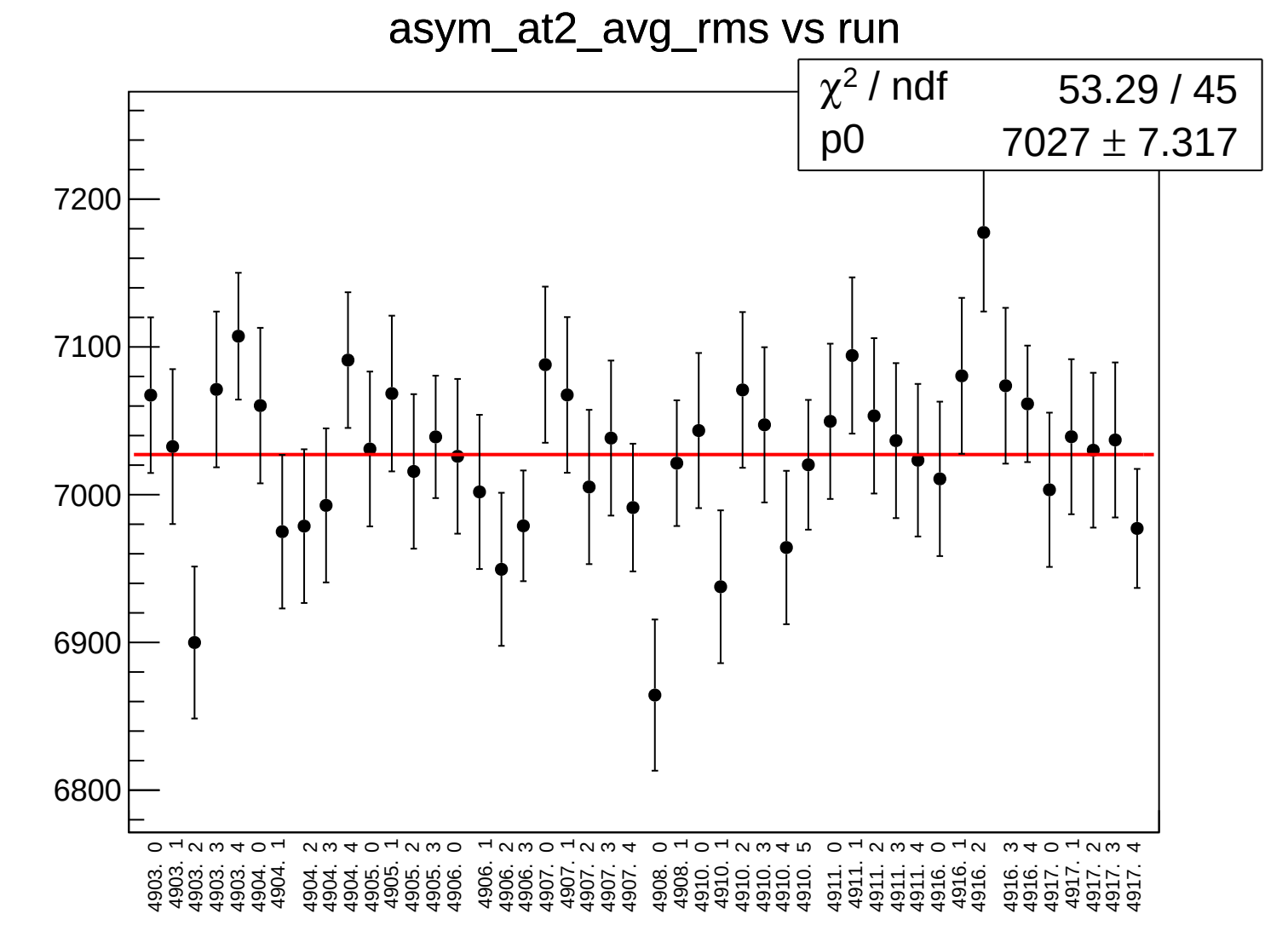
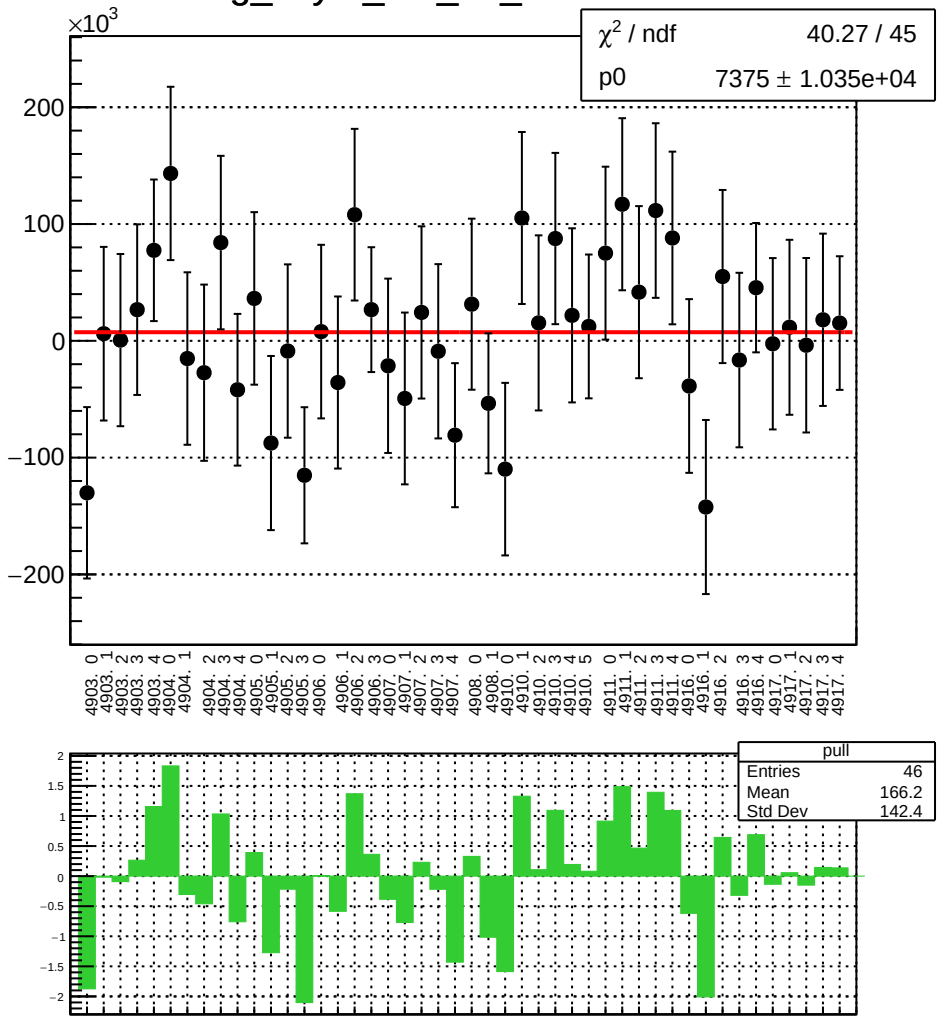
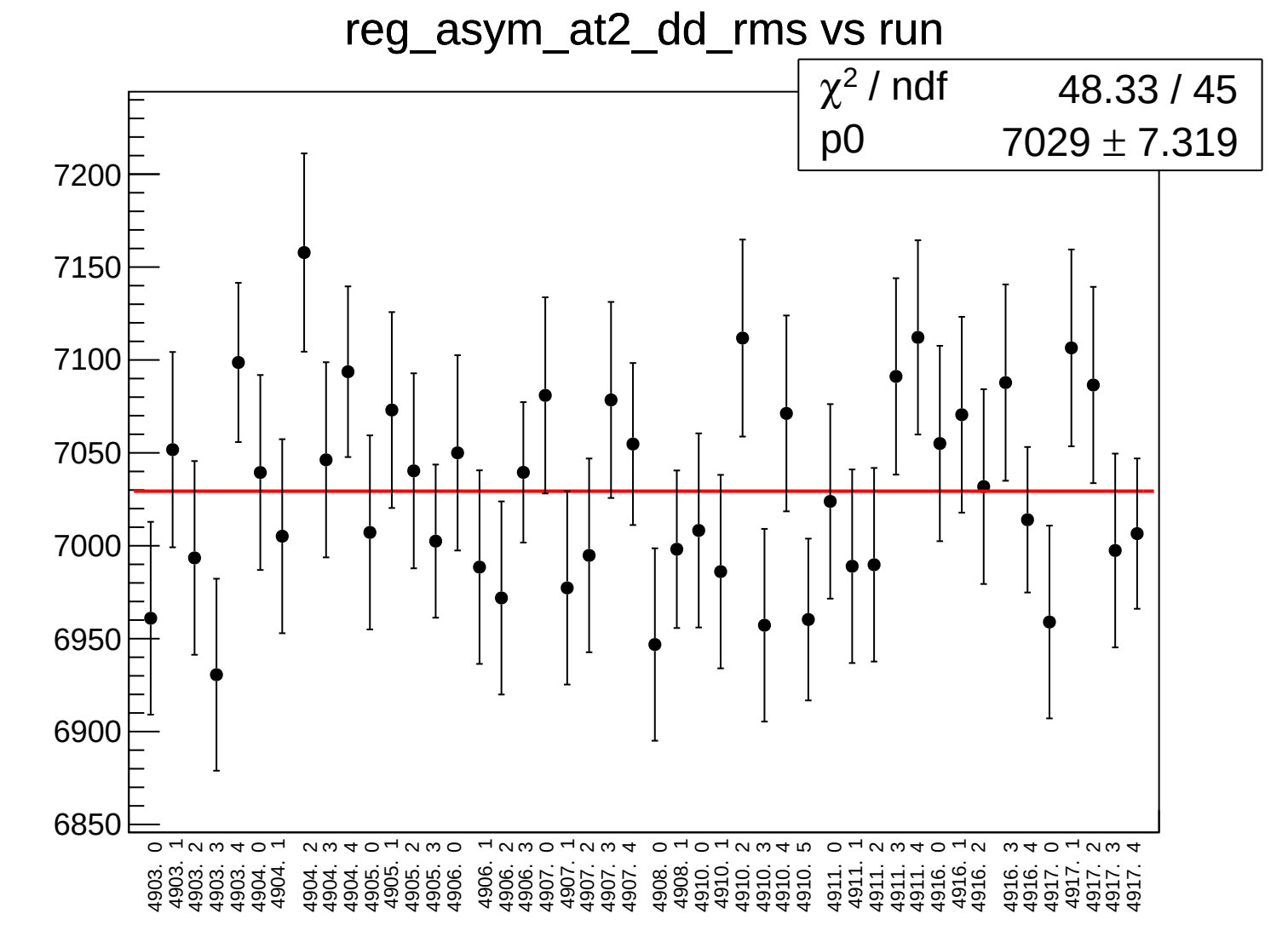
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

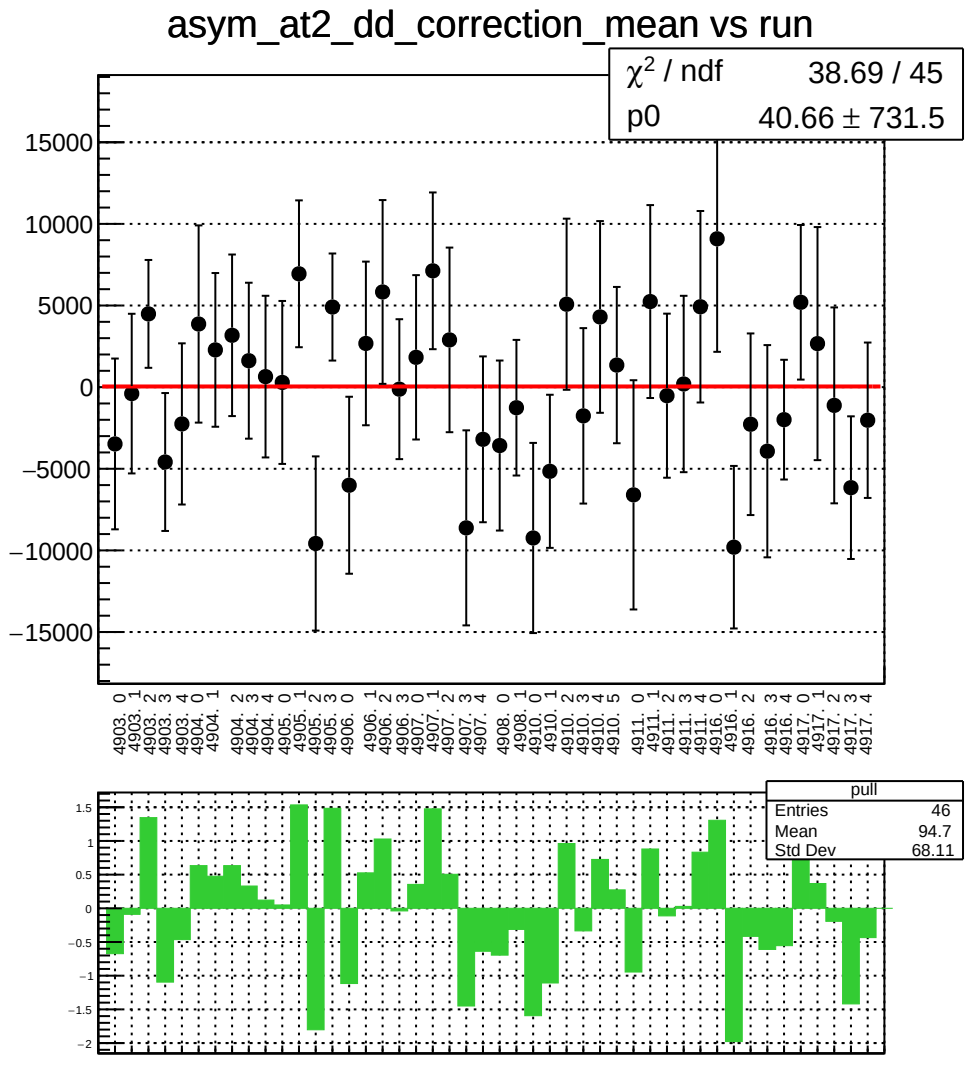

asym_at2_avg_mean vs run
×10^3
χ² / ndf 22.81 / 45
p0 4381± 1.035e+04
250
200
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −15.31
Std Dev 65.46
2.5
2
1.5
1
0.5
0
−0.5
−1

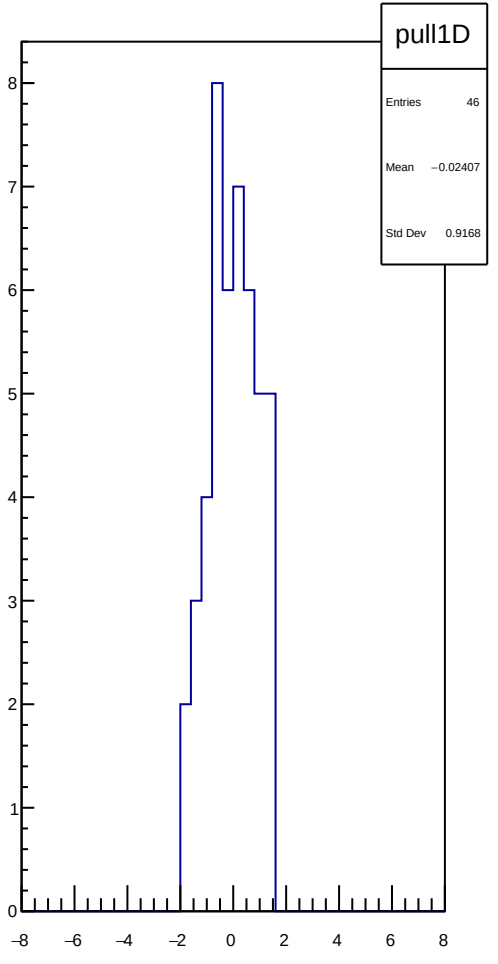

pull1D
Entries 46
Mean −0.00911
Std Dev 0.7041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

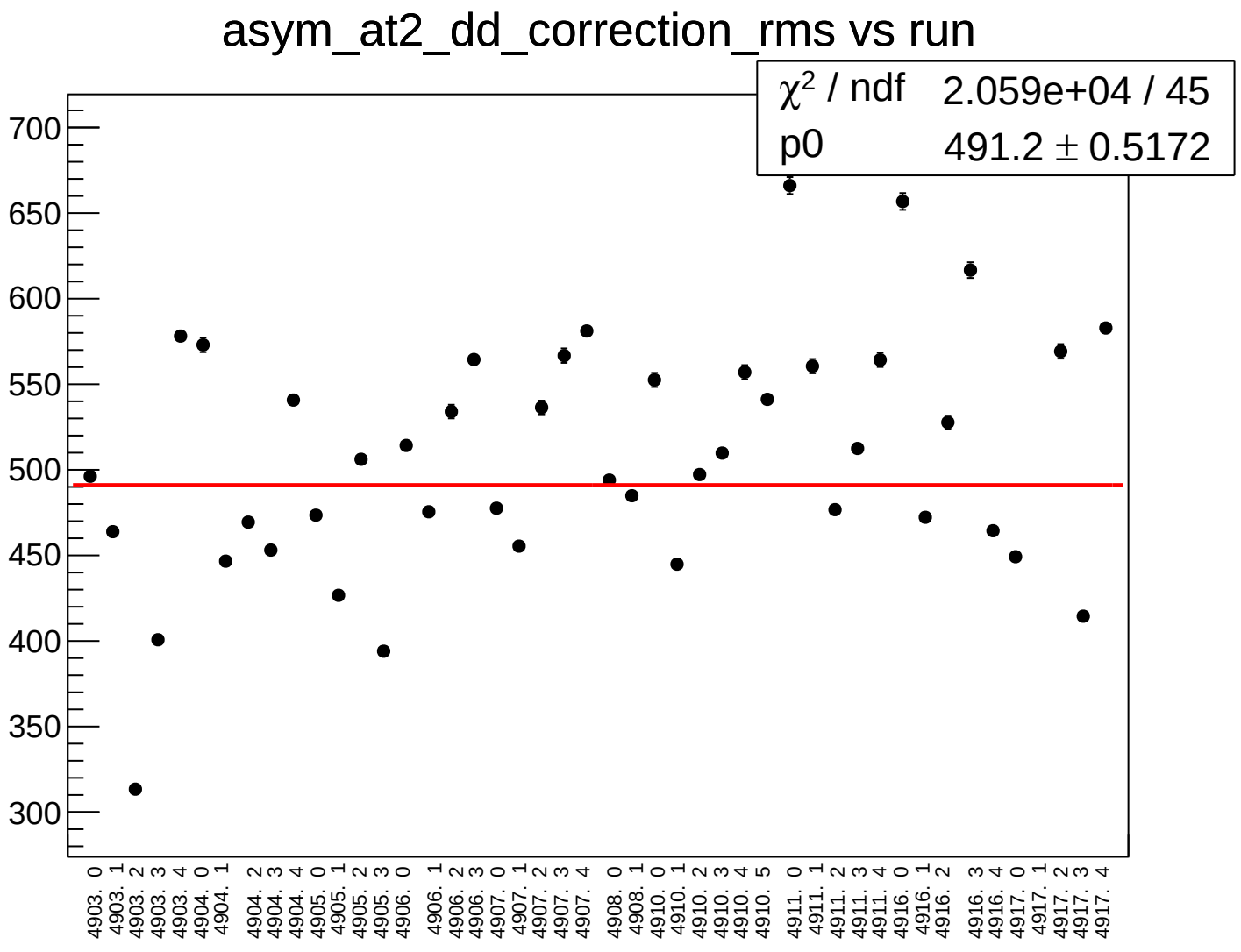

asym_at2_avg_rms vs run
χ² / ndf 53.29 / 45
p0 7027 ± 7.317
7200
7100
7000
6900
6800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

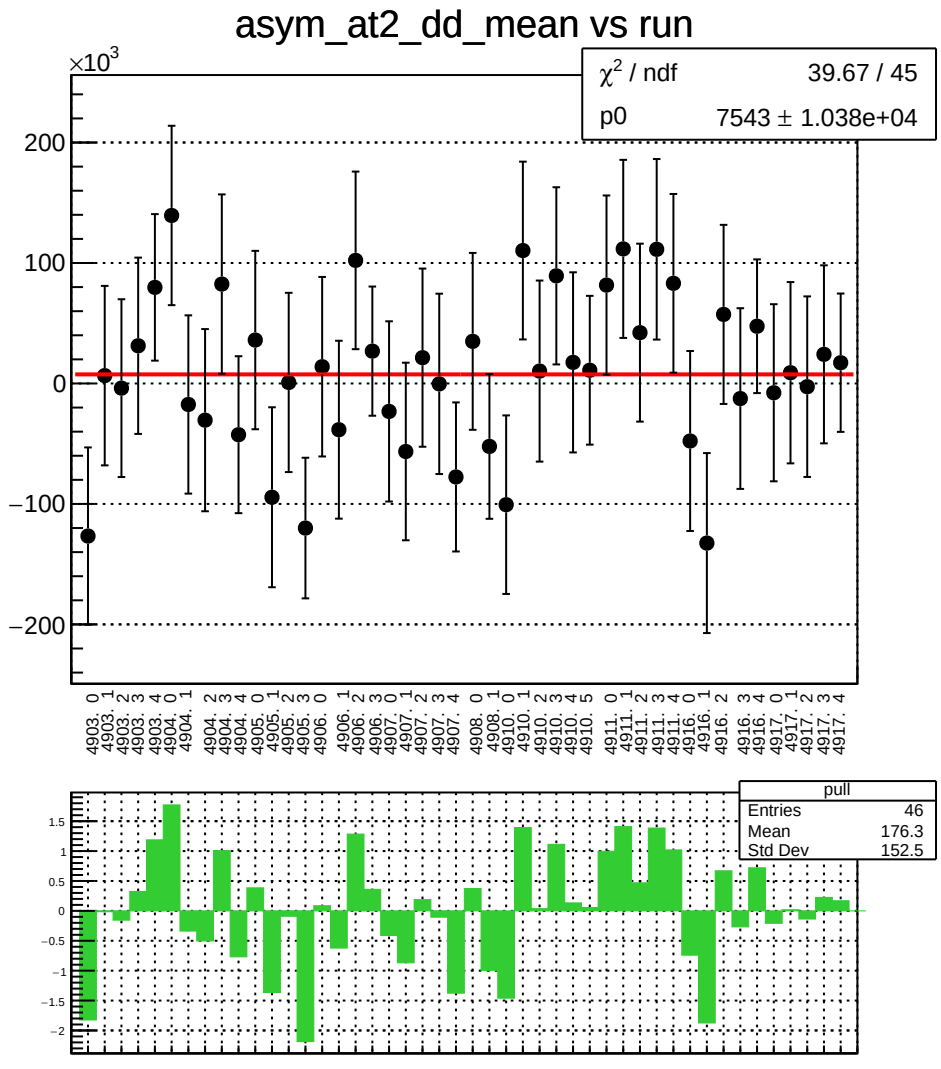

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 40.27 / 45
p0 7375 ± 1.035e+04
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 166.2
Std Dev 142.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01043
Std Dev 0.9356
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

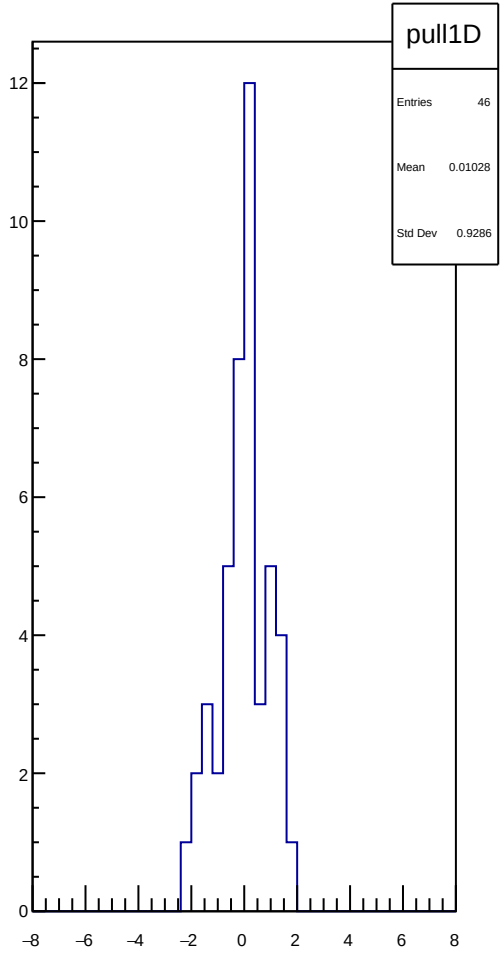

reg_asym_at2_dd_rms vs run
χ² / ndf 48.33 / 45
p0 7029 ± 7.319
7200
7150
7100
7050
7000
6950
6900
6850
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

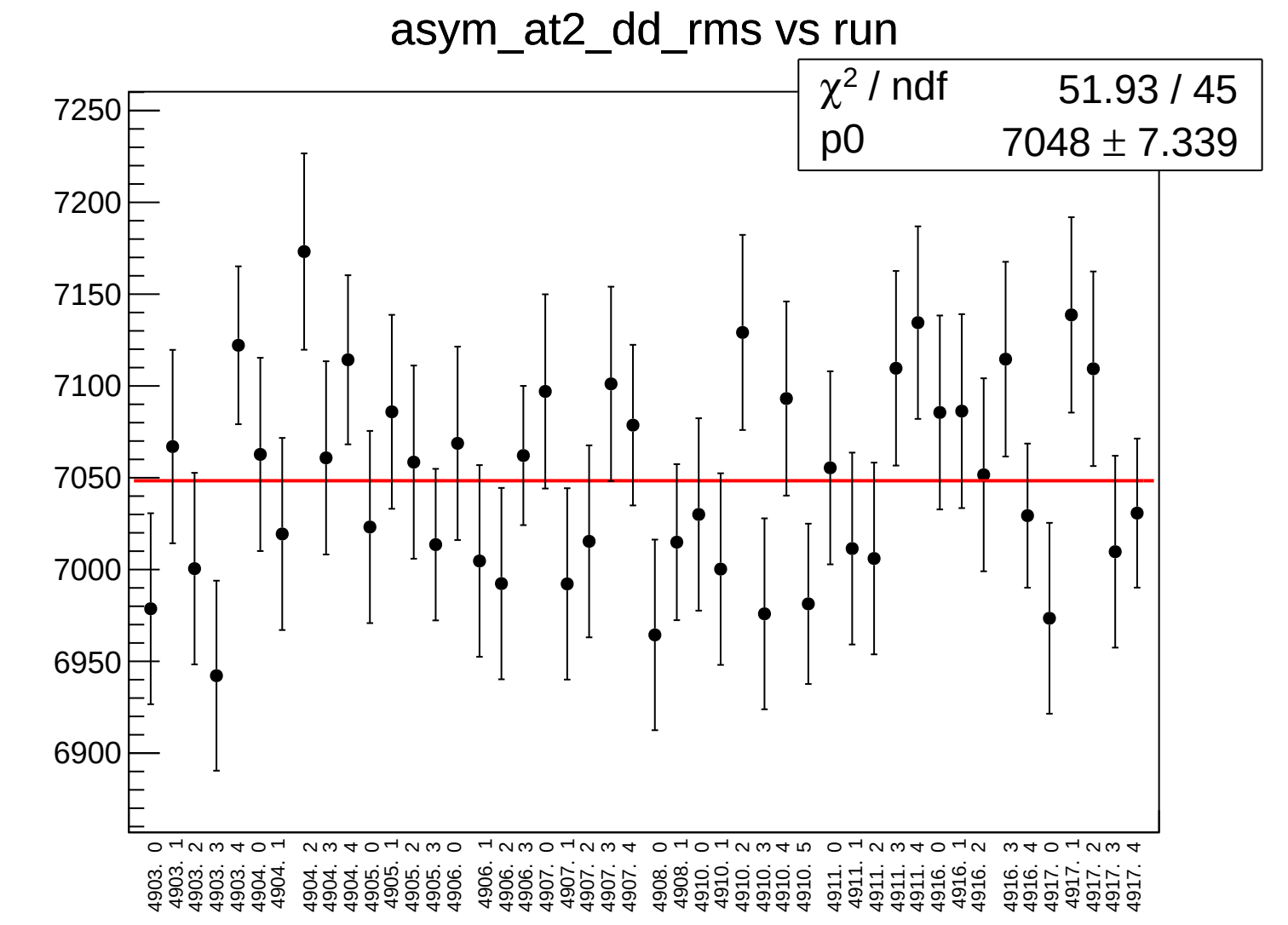

asym_at2_dd_correction_mean vs run
χ² / ndf 38.69 / 45
p0 40.66 ± 731.5
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 94.7
Std Dev 68.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2

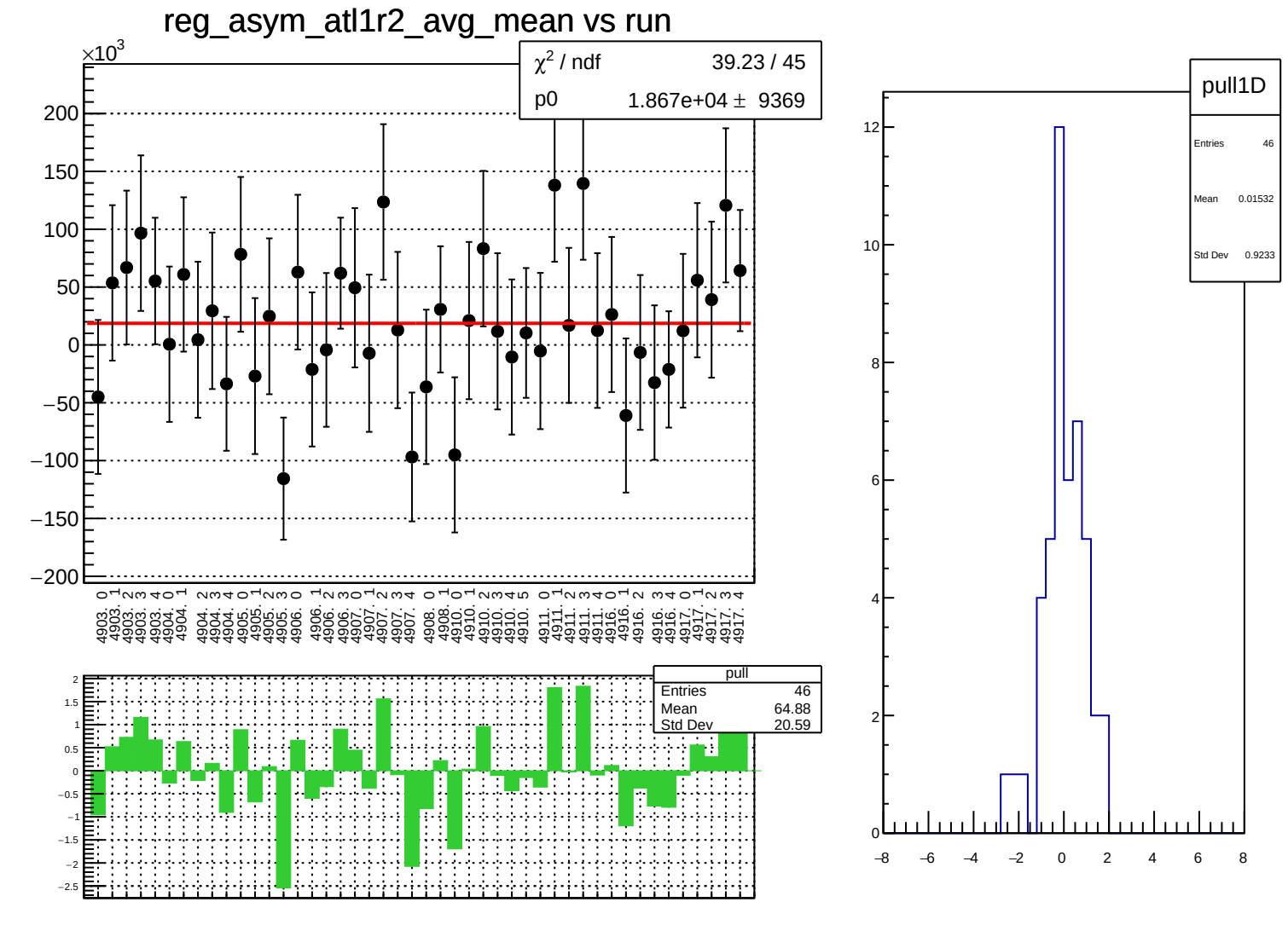

pull1D
Entries 46
Mean −0.02407
Std Dev 0.9168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

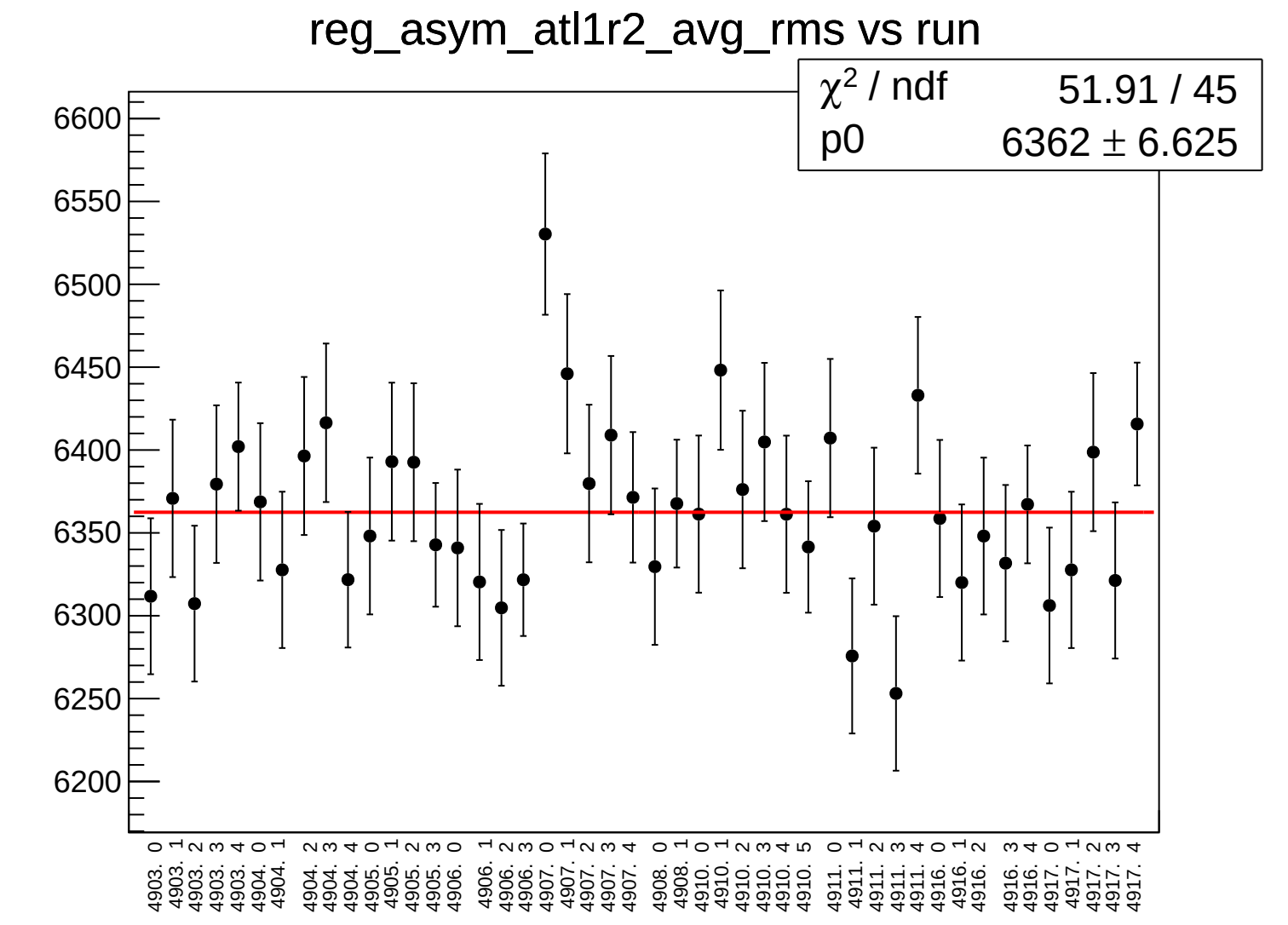

asym_at2_dd_correction_rms vs run
χ² / ndf 2.059e+04 / 45
p0 491.2 ± 0.5172
700
650
600
550
500
450
400
350
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

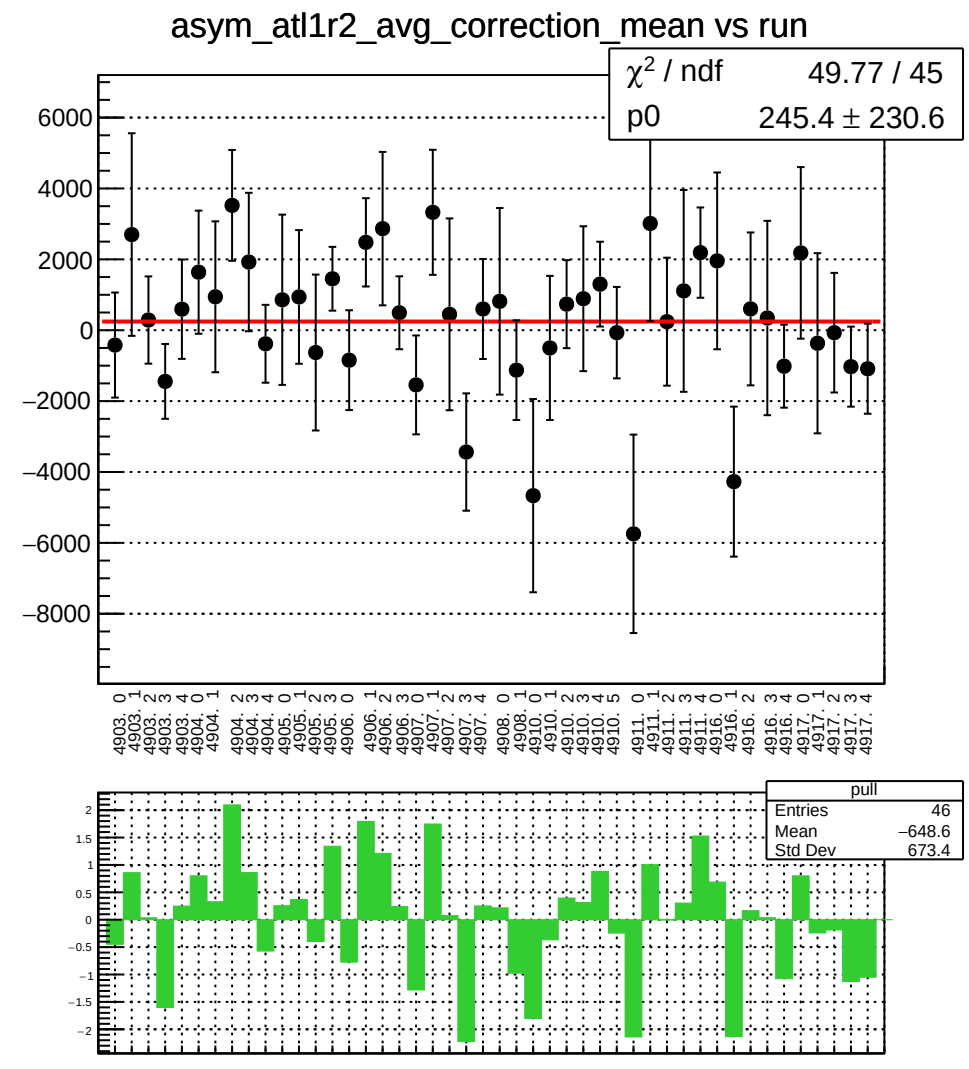

asym_at2_dd_mean vs run
×10^3
χ² / ndf 39.67 / 45
p0 7543 ± 1.038e+04
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 176.3
Std Dev 152.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

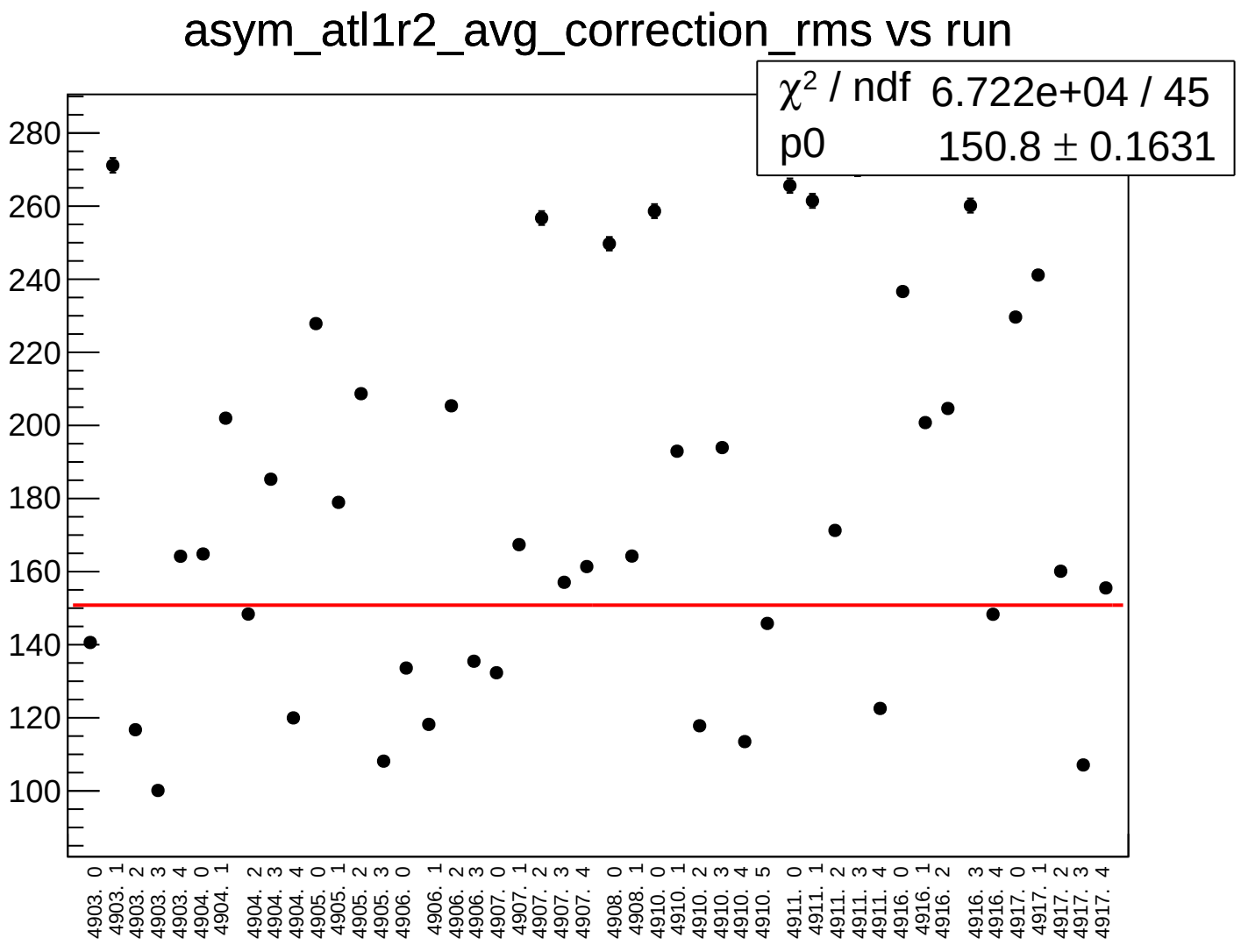

pull1D
Entries 46
Mean 0.01028
Std Dev 0.9286
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

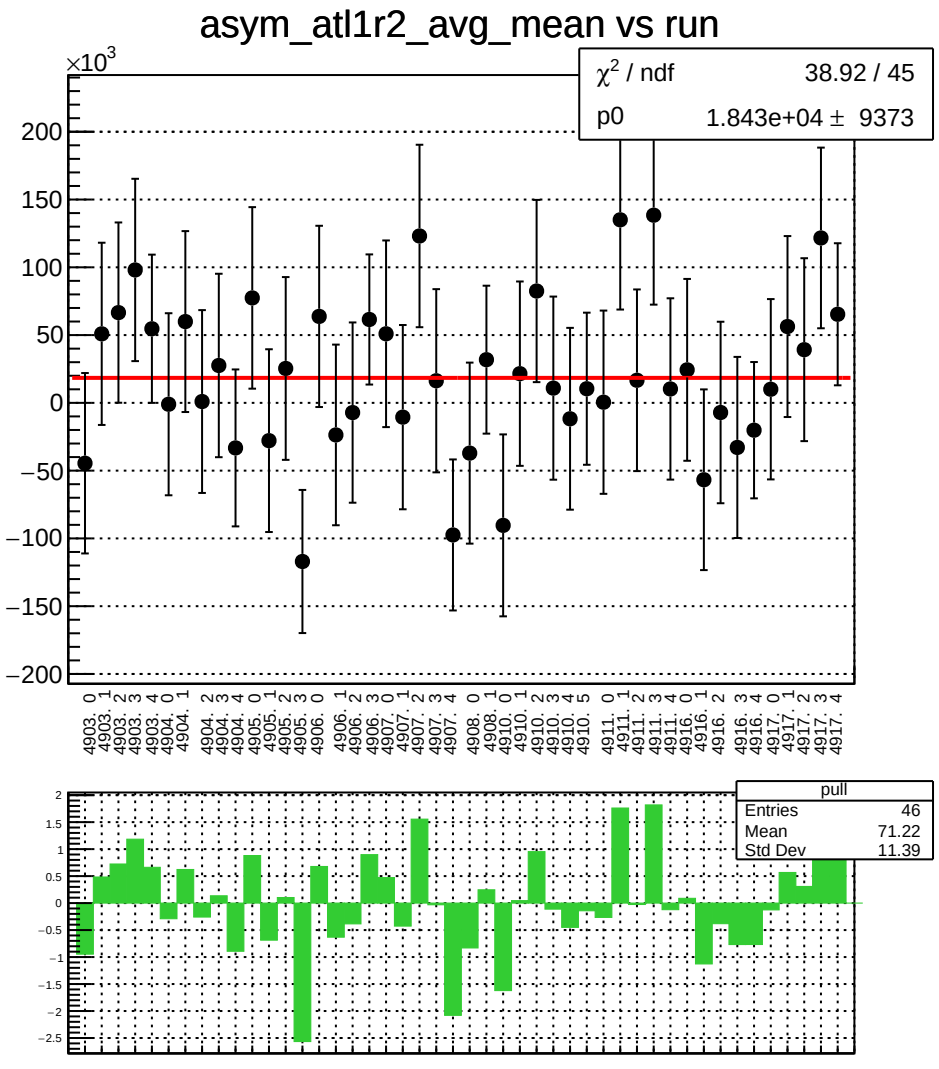

asym_at2_dd_rms vs run
χ² / ndf 51.93 / 45
p0 7048 ± 7.339
7250
7200
7150
7100
7050
7000
6950
6900
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

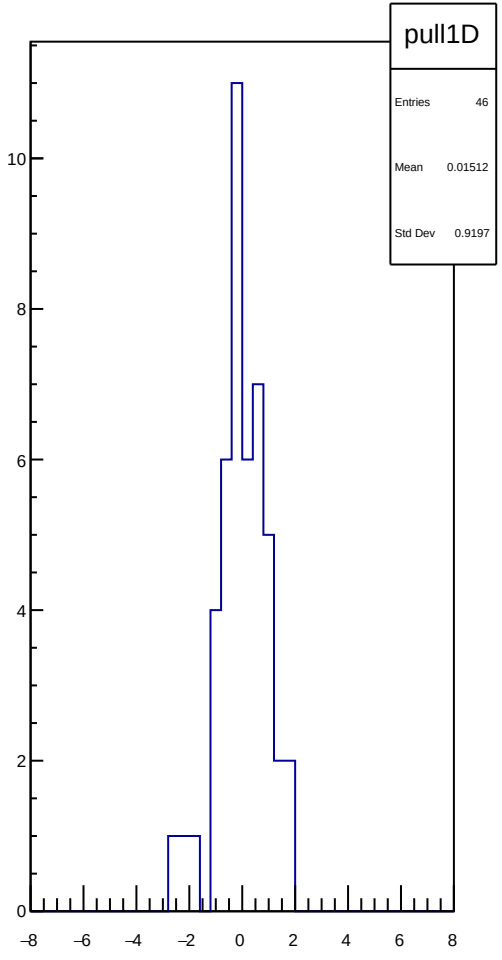

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 39.23 / 45
p0 1.867e+04 ± 9369
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 64.88
Std Dev 20.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.01532
Std Dev 0.9233
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

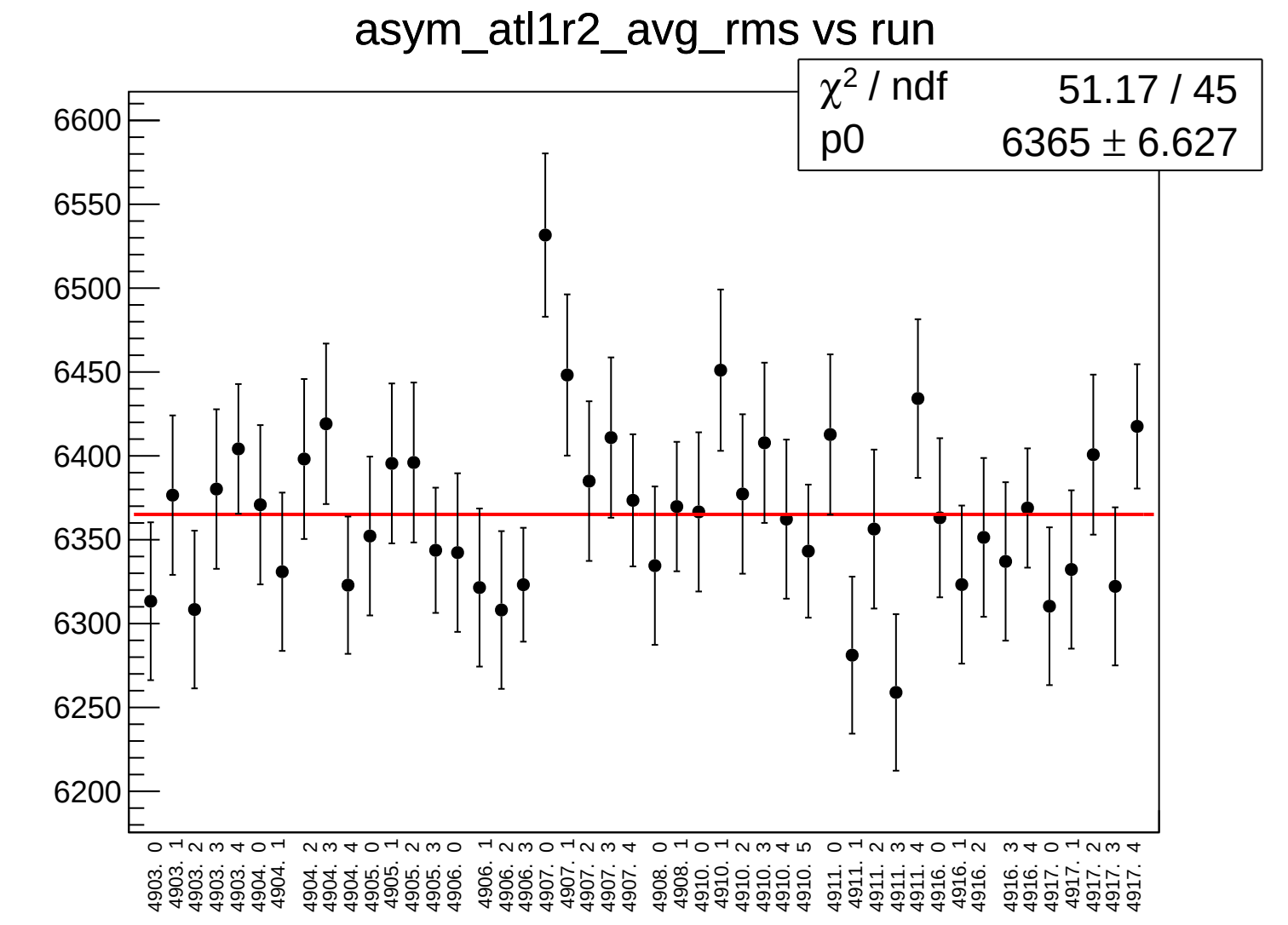

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 51.91 / 45
p0 6362 ± 6.625
6600
6550
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

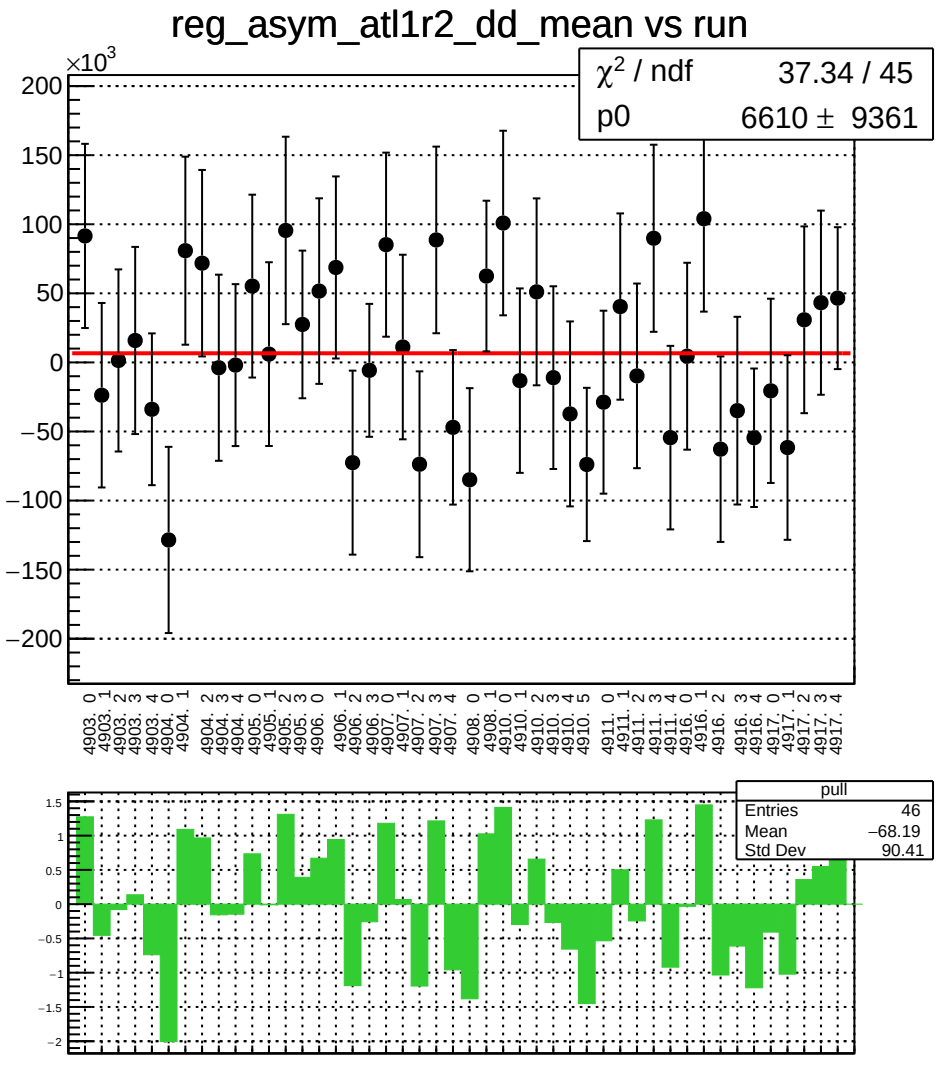

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 49.77 / 45
p0 245.4 ± 230.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −648.6
Std Dev 673.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004314
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

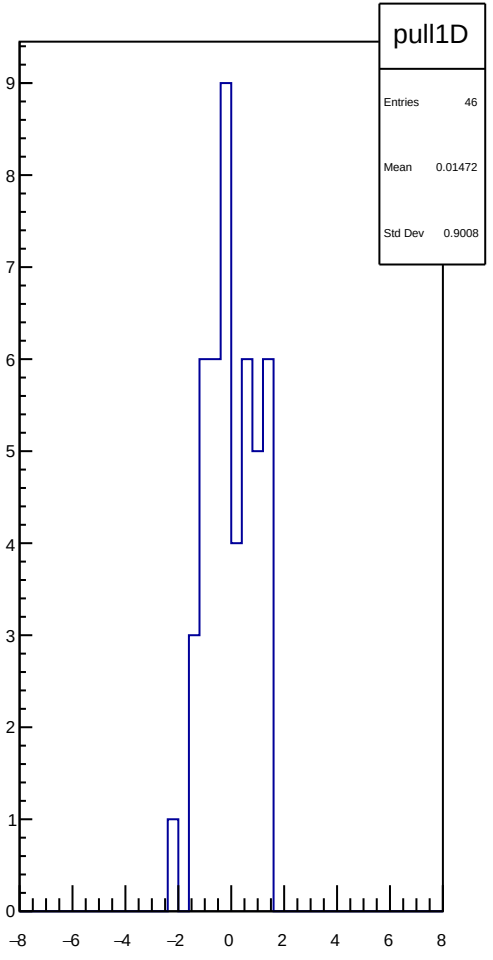

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 6.722e+04 / 45
p0 150.8 ± 0.1631
280
260
240
220
200
180
160
140
120
100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

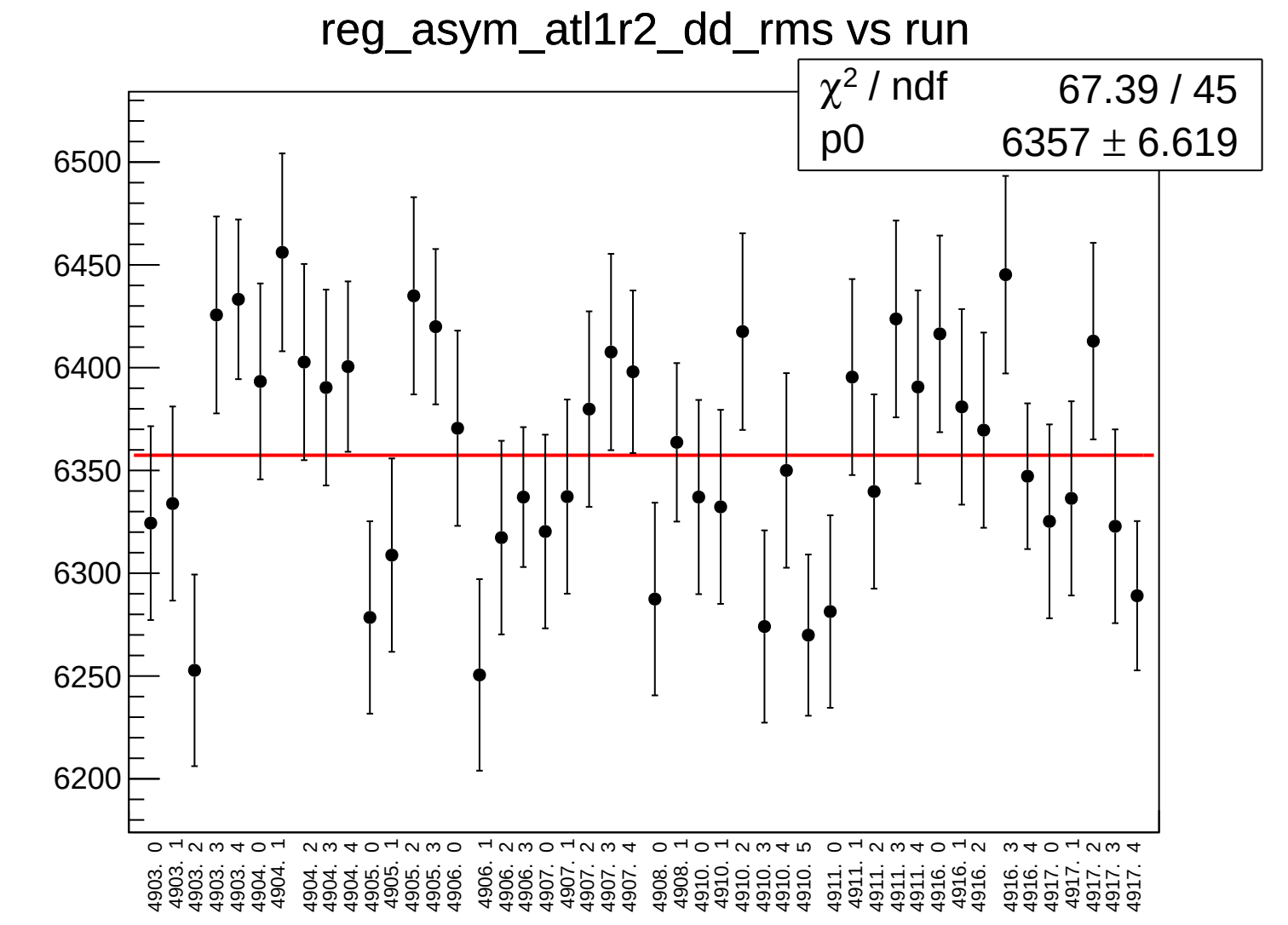

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 38.92 / 45
p0 1.843e+04 ± 9373
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 71.22
Std Dev 11.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

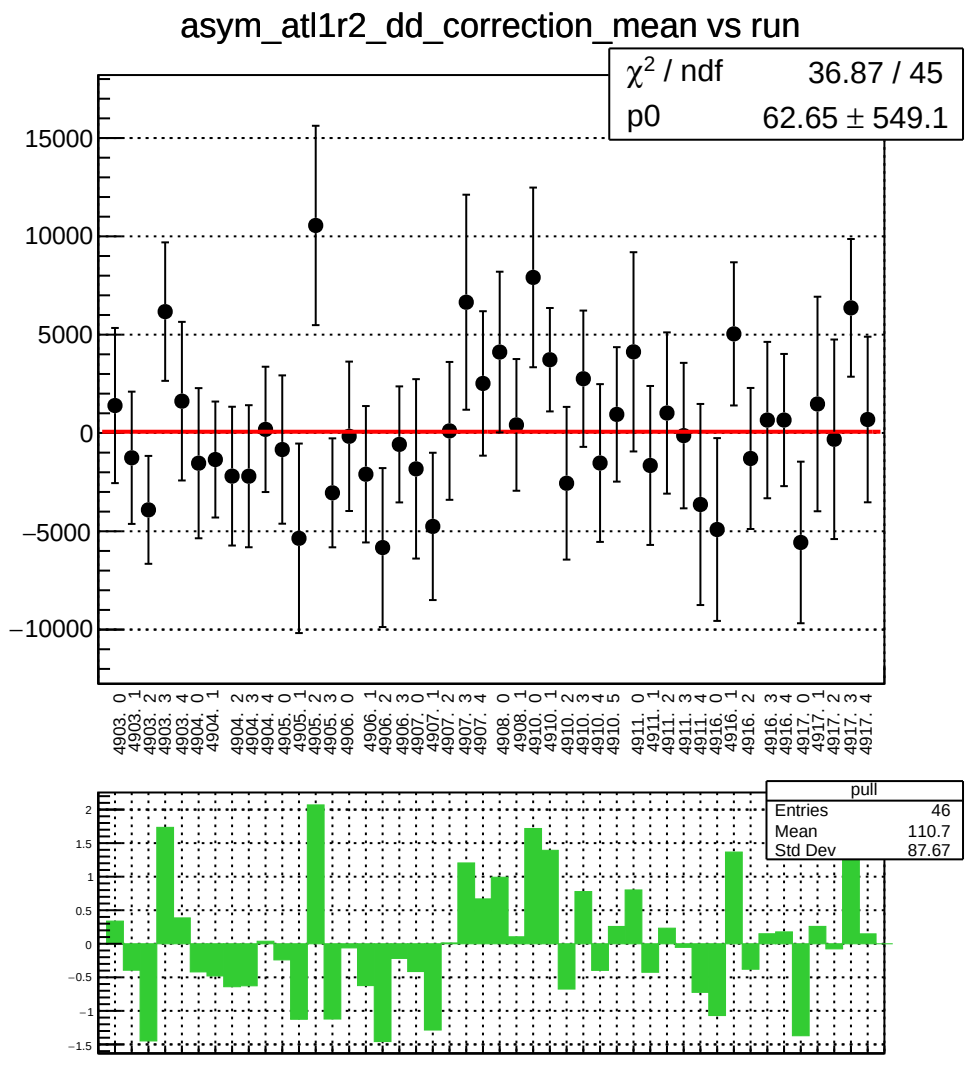

pull1D
Entries 46
Mean 0.01512
Std Dev 0.9197
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

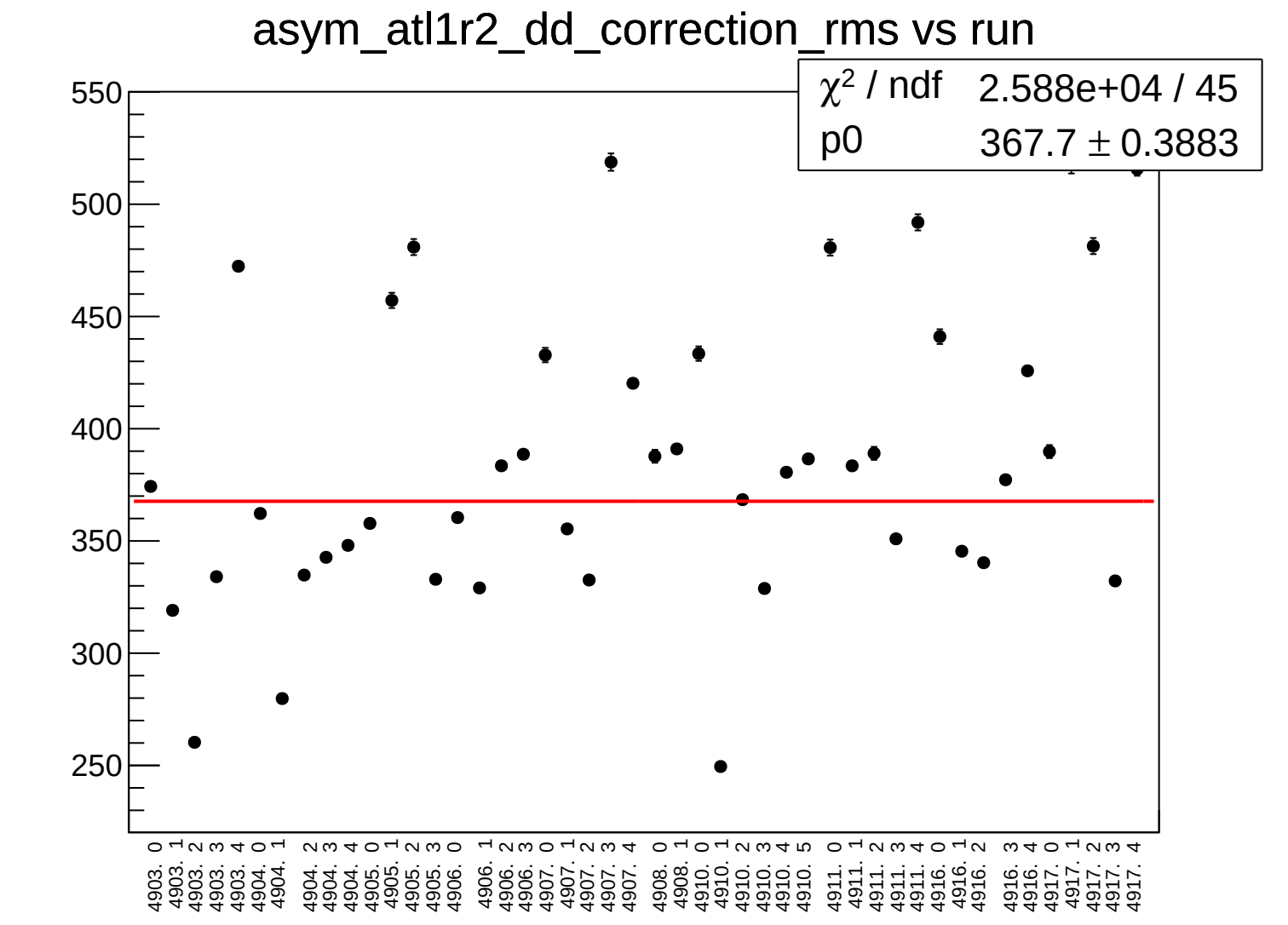

asym_atl1r2_avg_rms vs run
χ² / ndf 51.17 / 45
p0 6365 ± 6.627
6600
6550
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

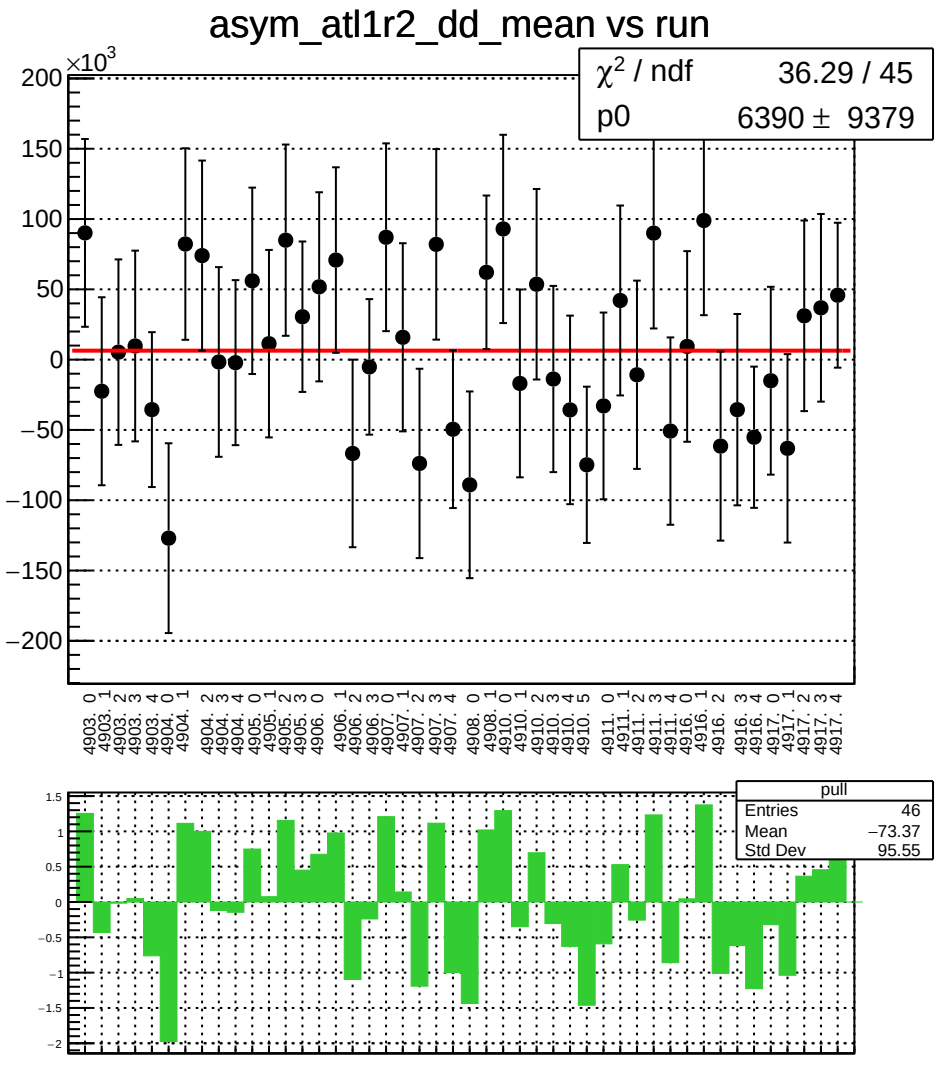

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 37.34 / 45
p0 6610 ± 9361
pull
Entries 46
Mean −68.19
Std Dev 90.41

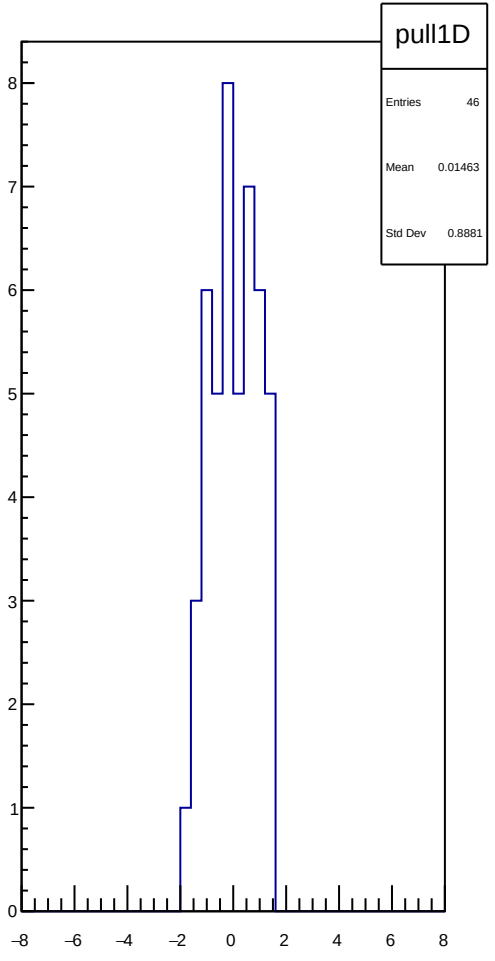

pull1D
Entries 46
Mean 0.01472
Std Dev 0.9008

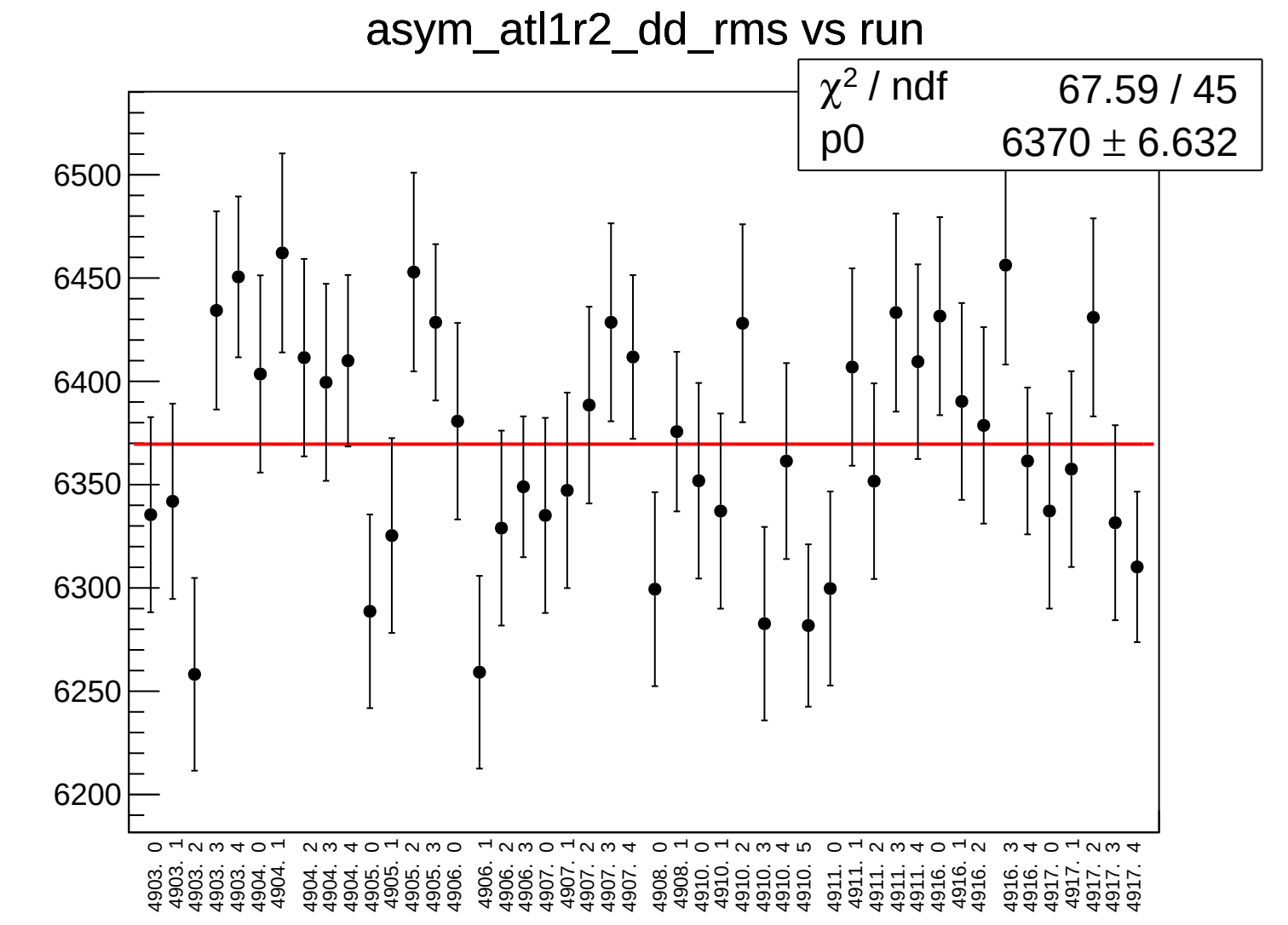

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 67.39 / 45
p0 6357 ± 6.619
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

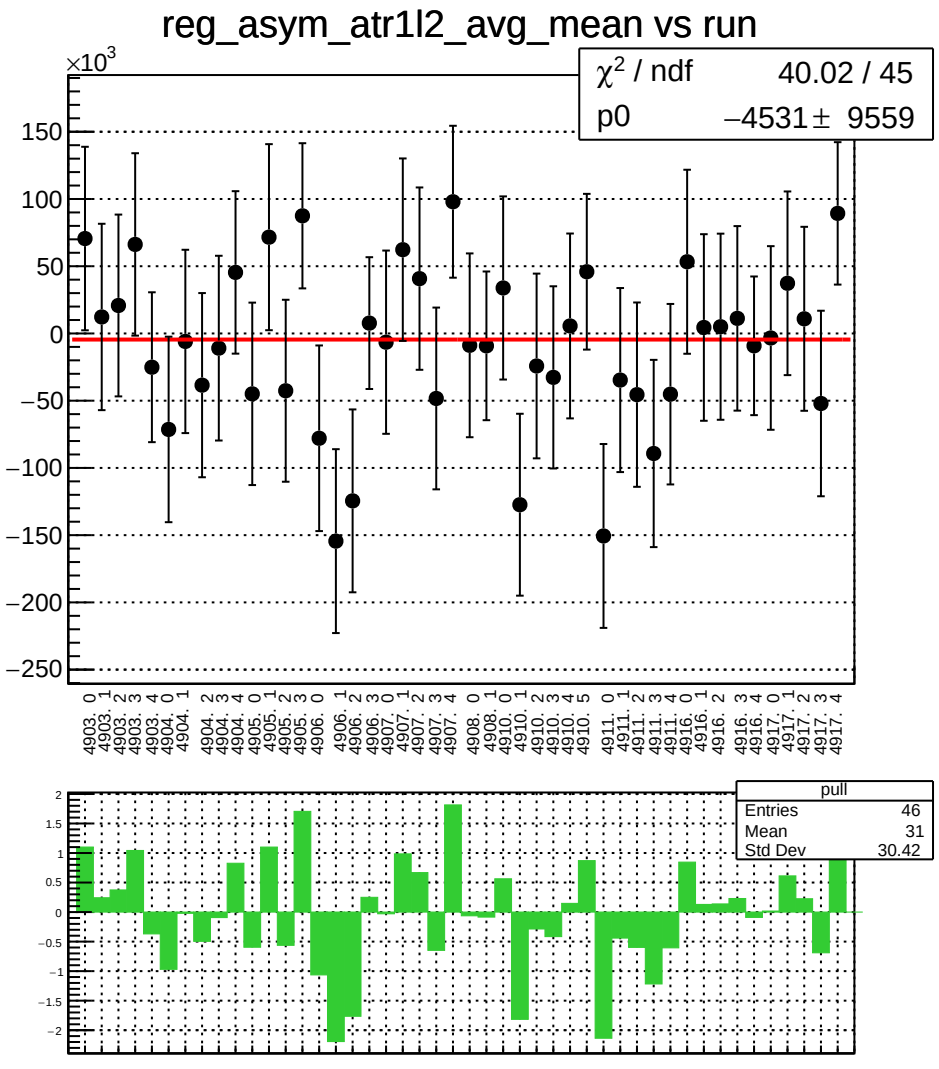

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 36.87 / 45
p0 62.65 ± 549.1
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 110.7
Std Dev 87.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.01969
Std Dev 0.8951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

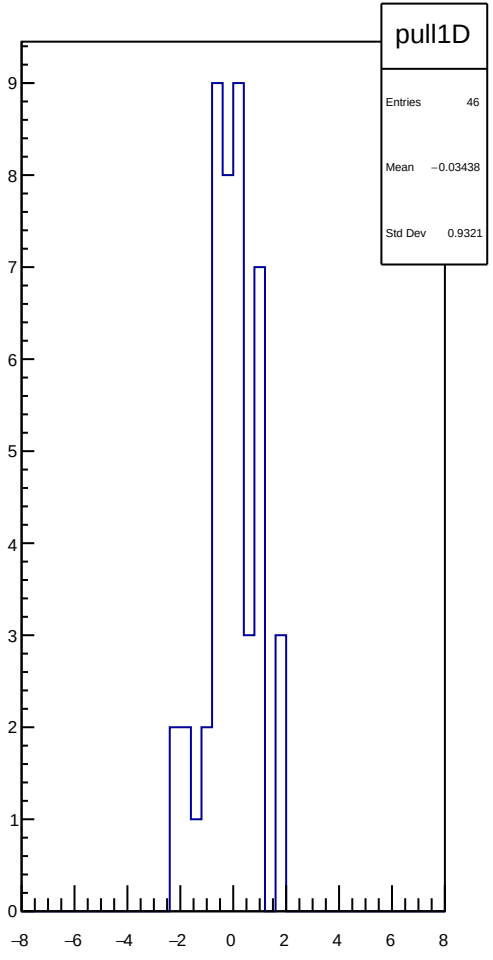

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.588e+04 / 45
p0 367.7 ± 0.3883
550
500
450
400
350
300
250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

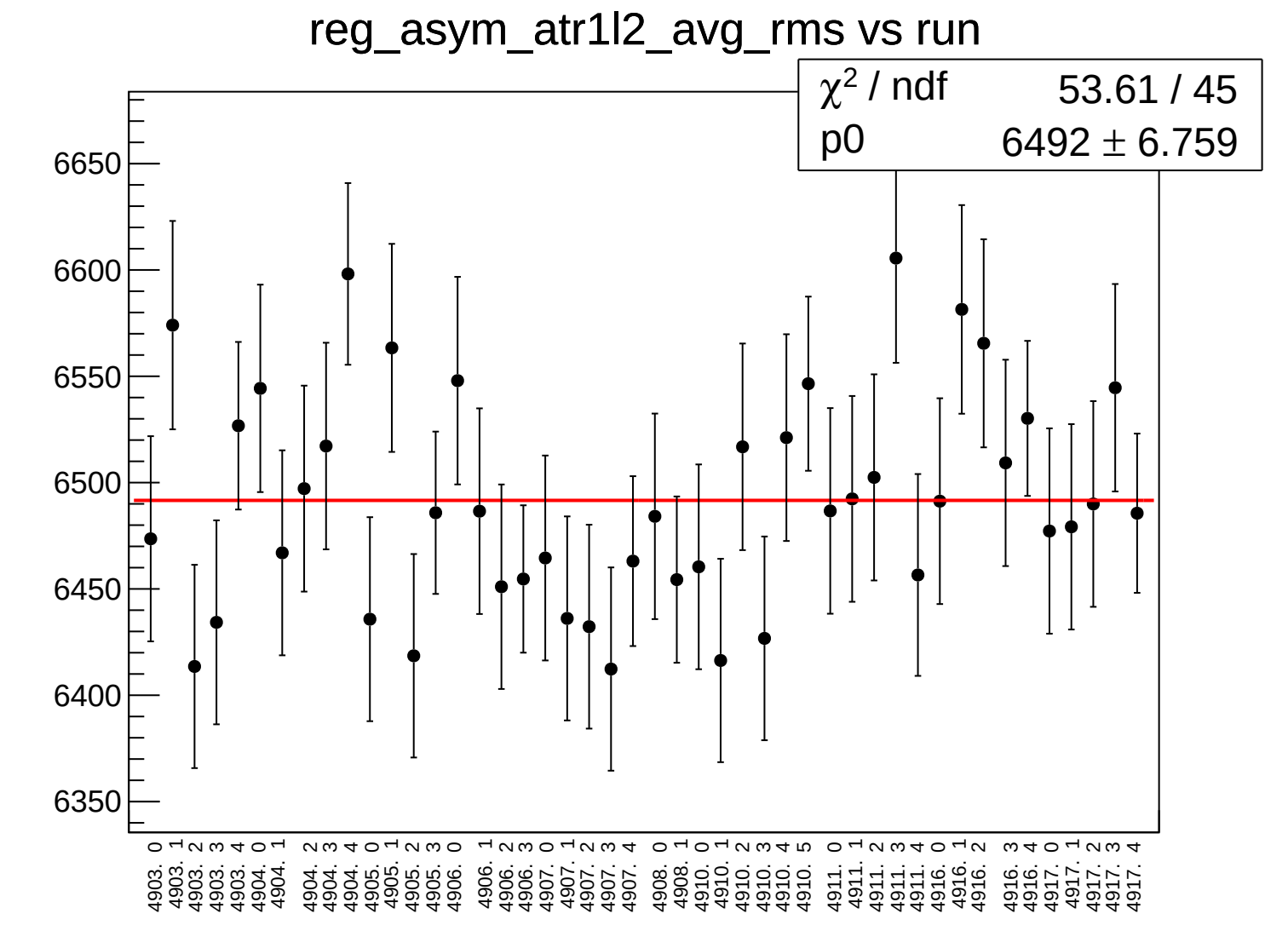

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 36.29 / 45
p0 6390 ± 9379
pull
Entries 46
Mean −73.37
Std Dev 95.55

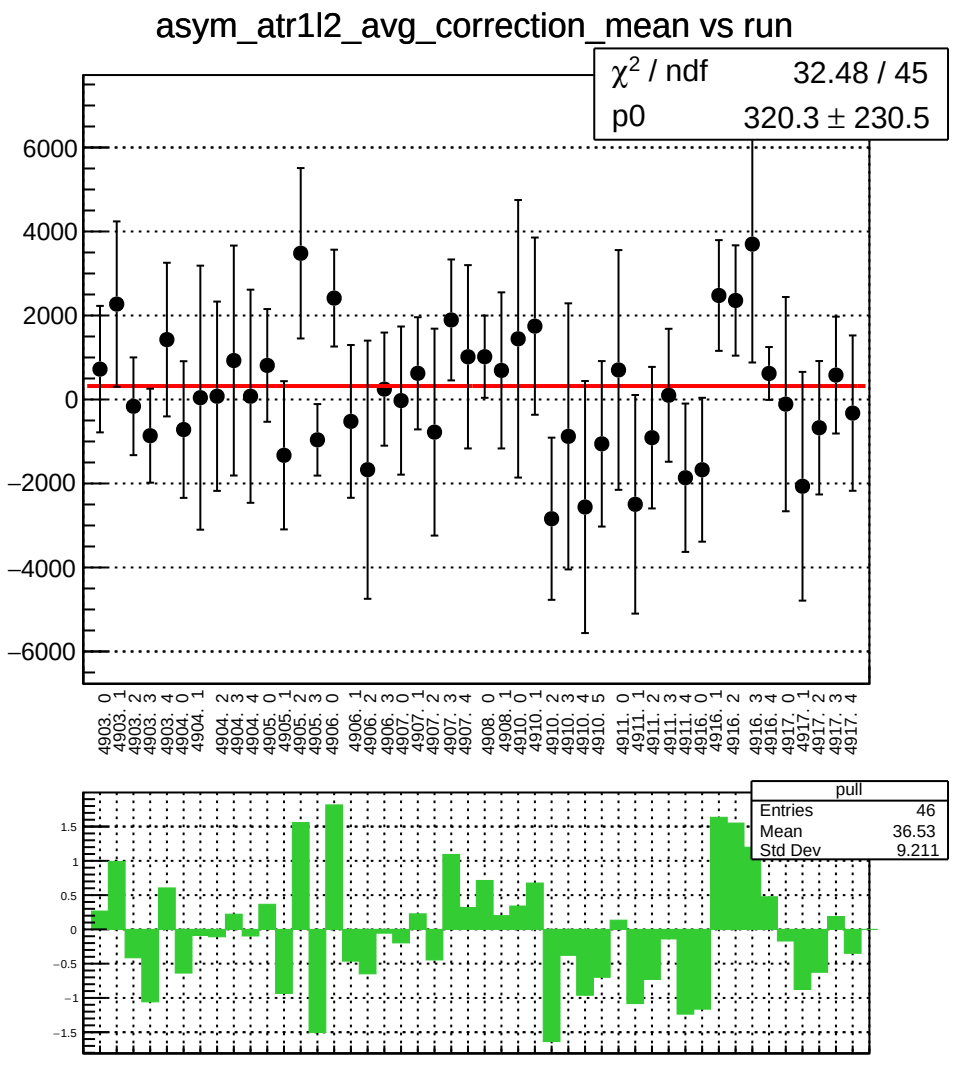

pull1D
Entries 46
Mean 0.01463
Std Dev 0.8881

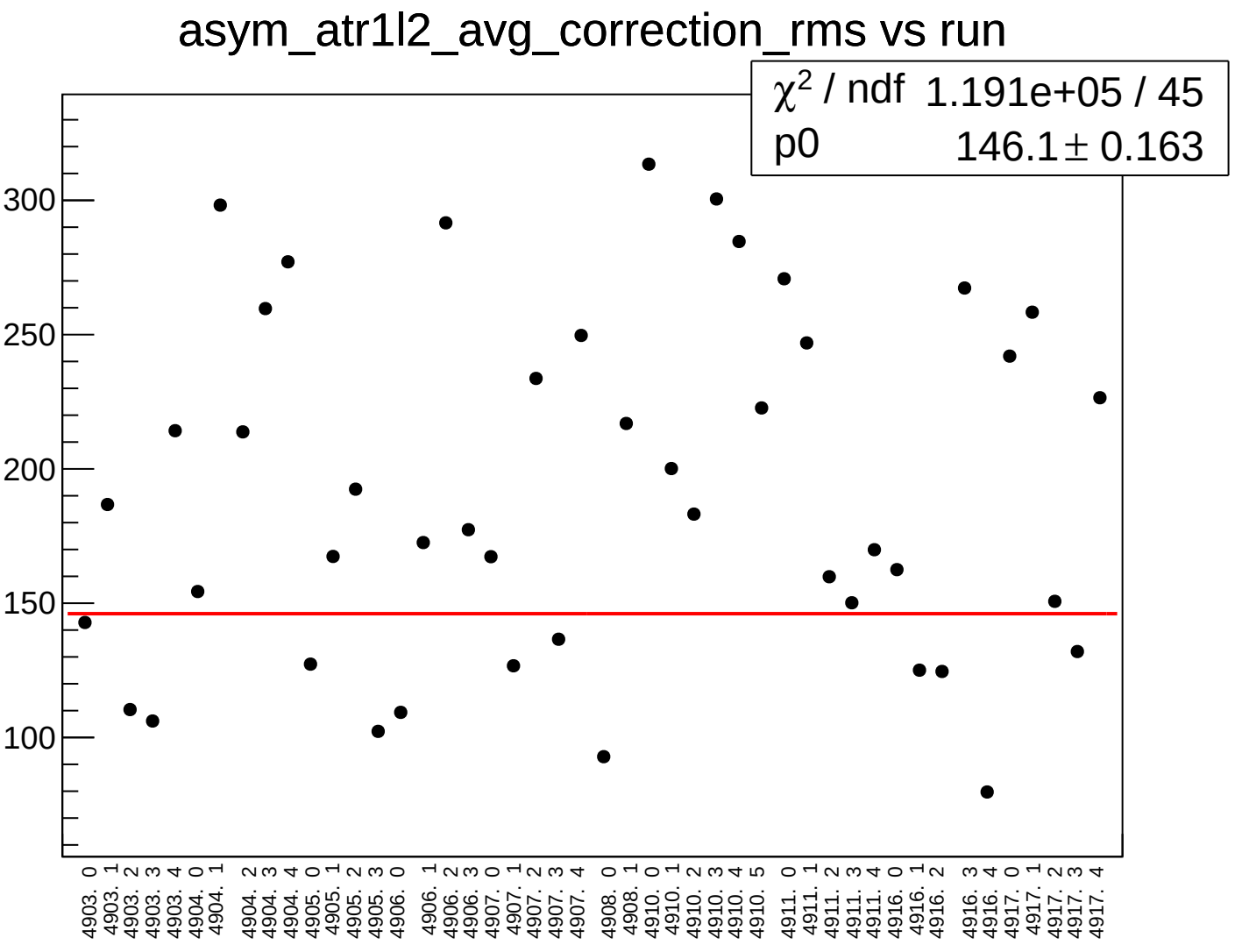

asym_atl1r2_dd_rms vs run
χ² / ndf 67.59 / 45
p0 6370 ± 6.632
6500
6450
6400
6350
6300
6250
6200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

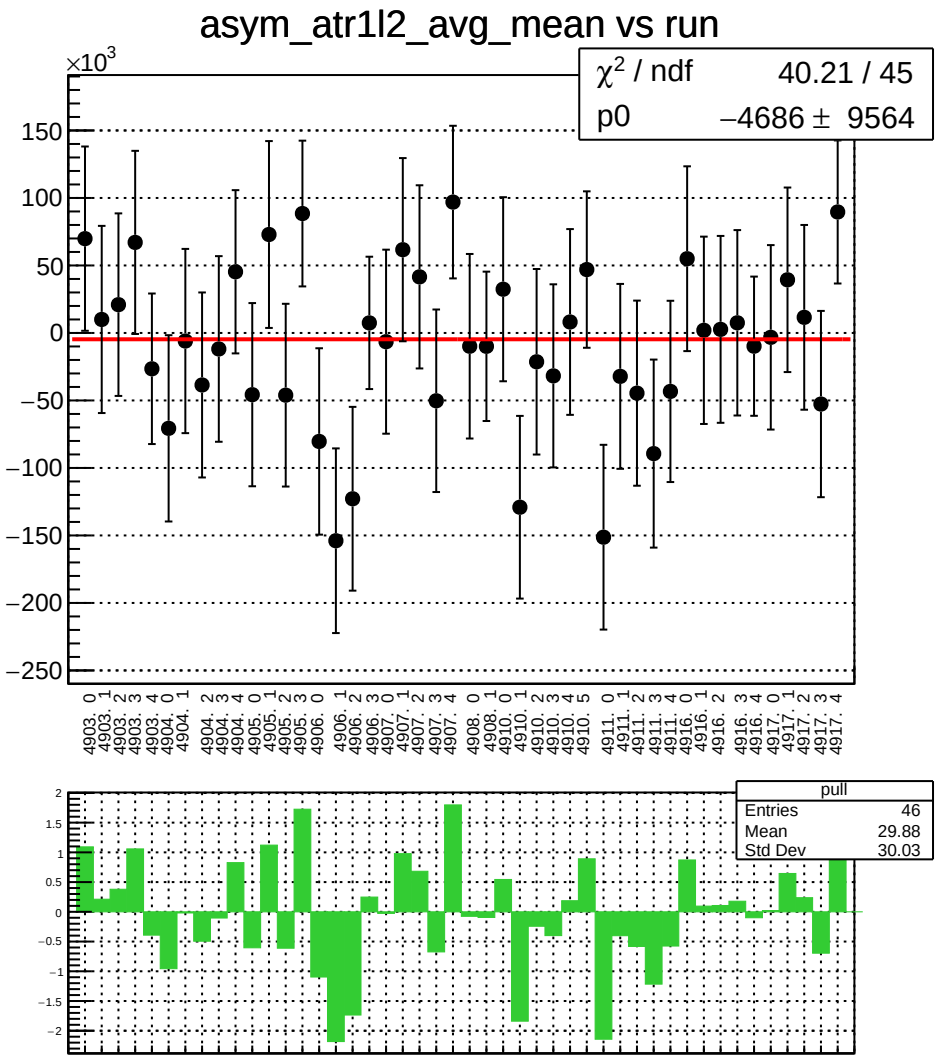

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 40.02 / 45
p0 −4531 ± 9559
150
100
50
0
−50
−100
−150
−200
−250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 31
Std Dev 30.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

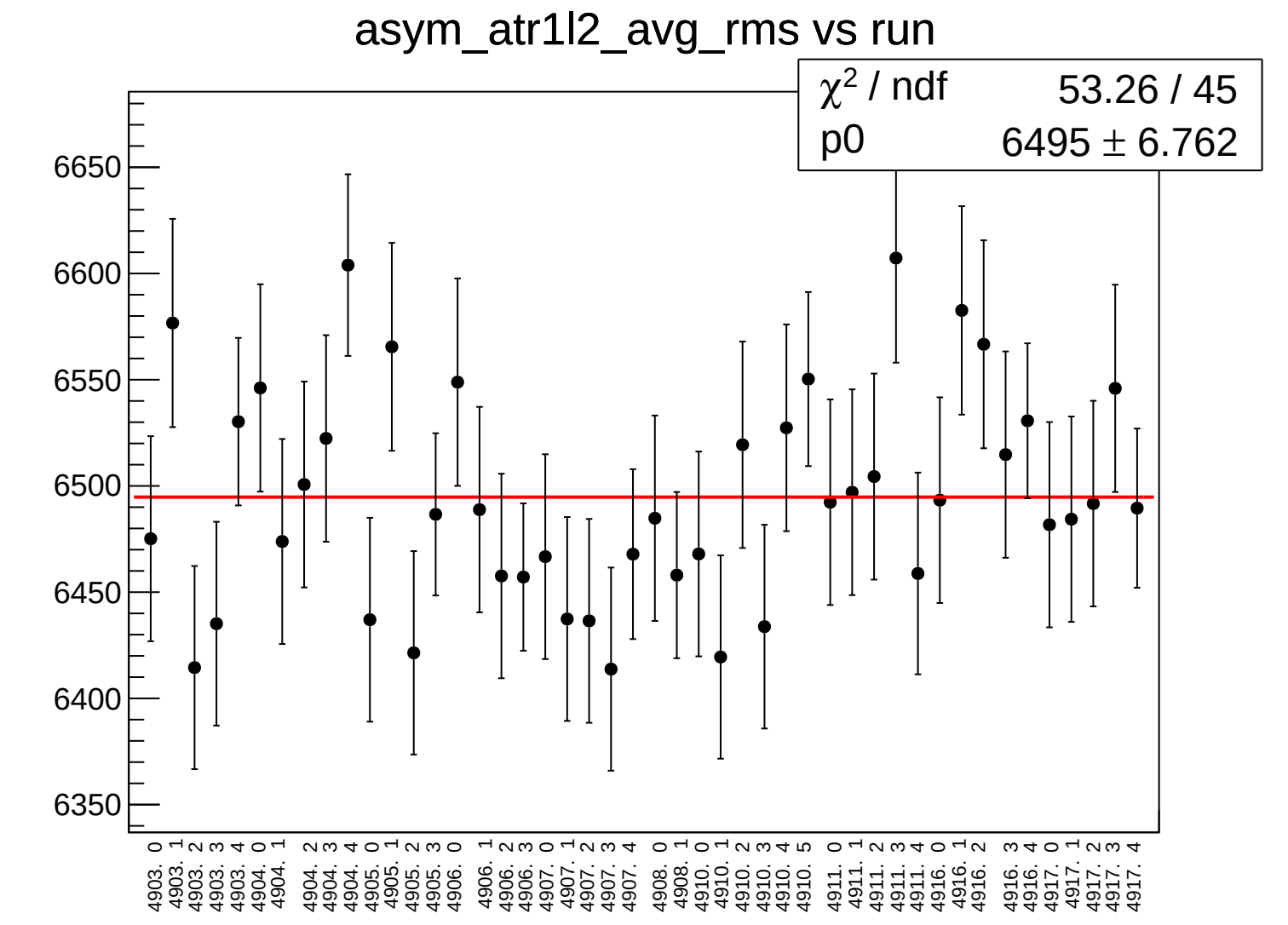

pull1D
Entries 46
Mean −0.03438
Std Dev 0.9321
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

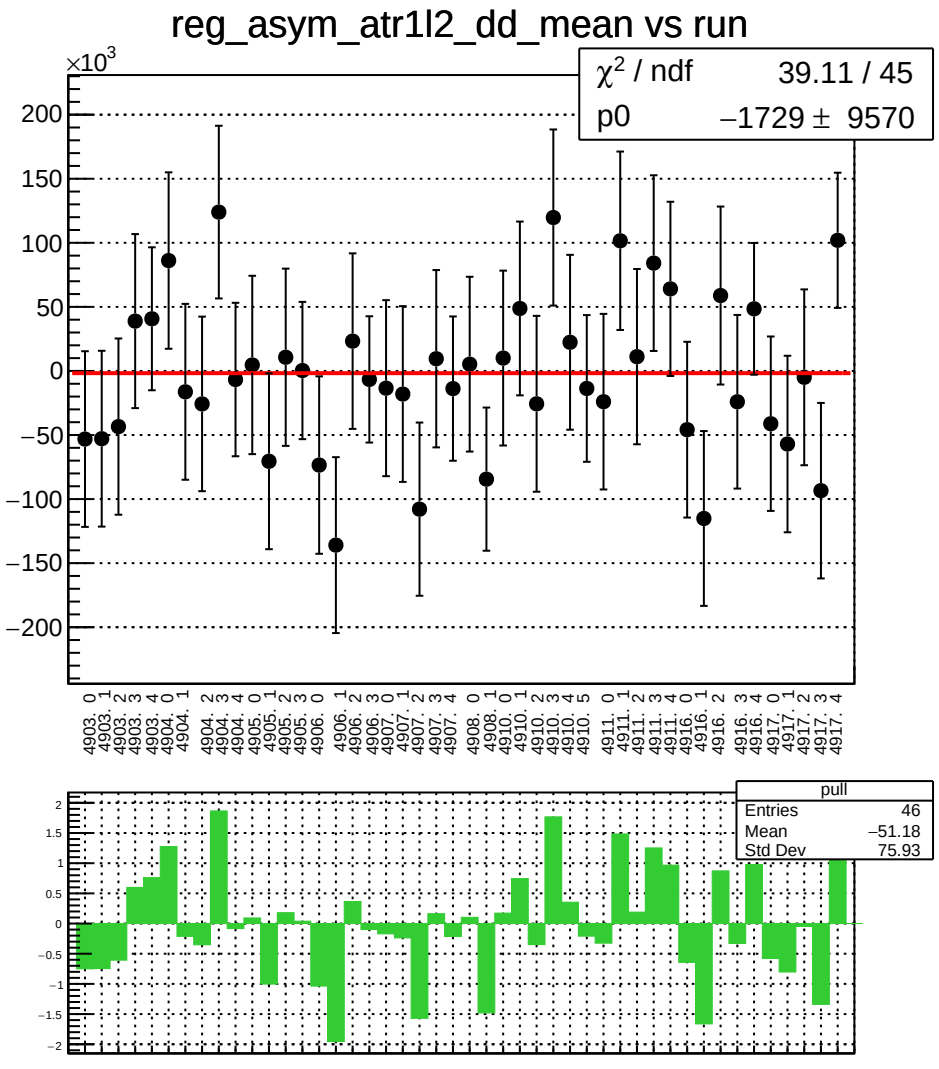

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 53.61 / 45
p0 6492 ± 6.759
6650
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

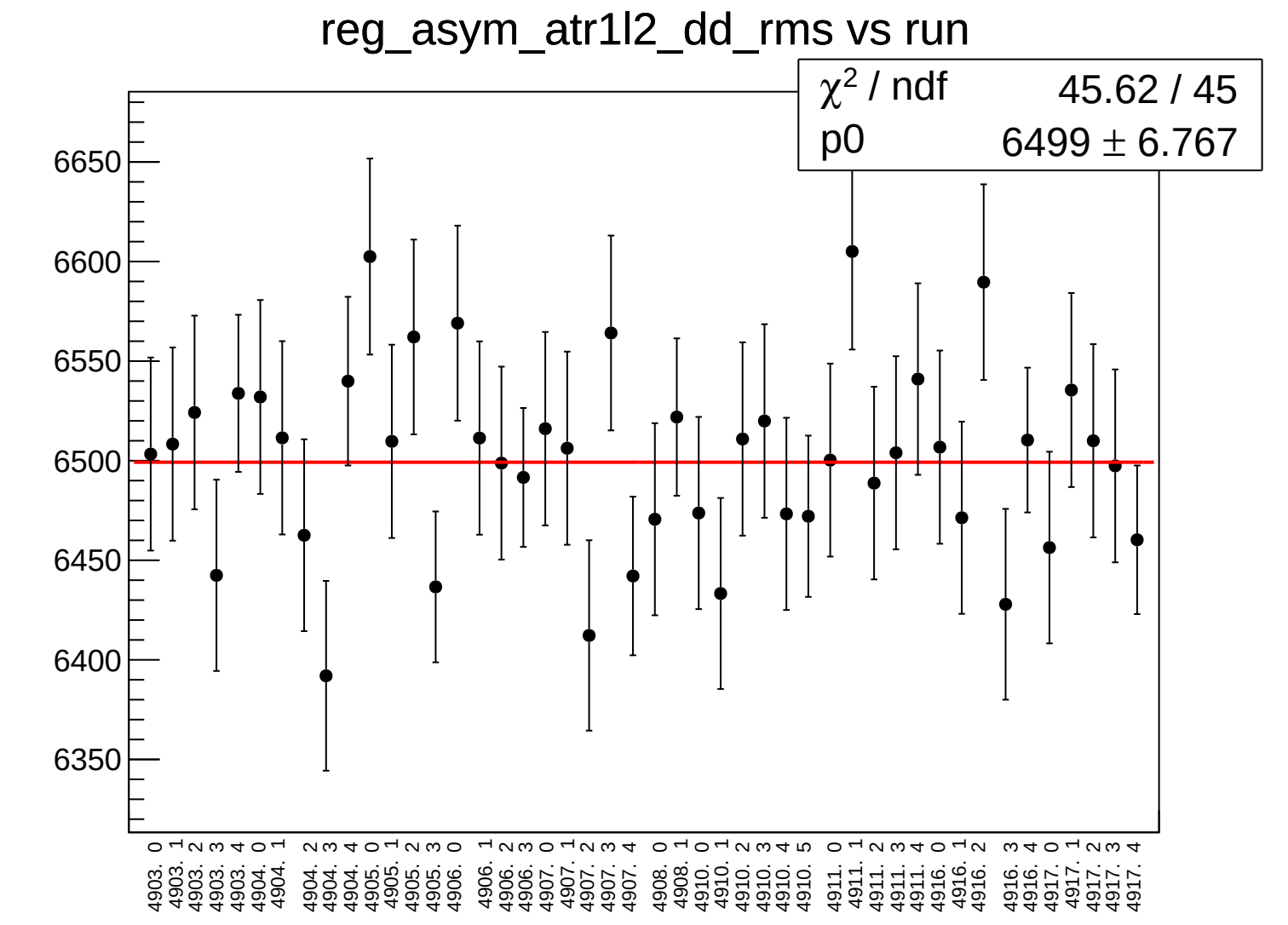

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 32.48 / 45
p0 320.3 ± 230.5
6000
4000
2000
0
−2000
−4000
−6000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 36.53
Std Dev 9.211
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.04594
Std Dev 0.839
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

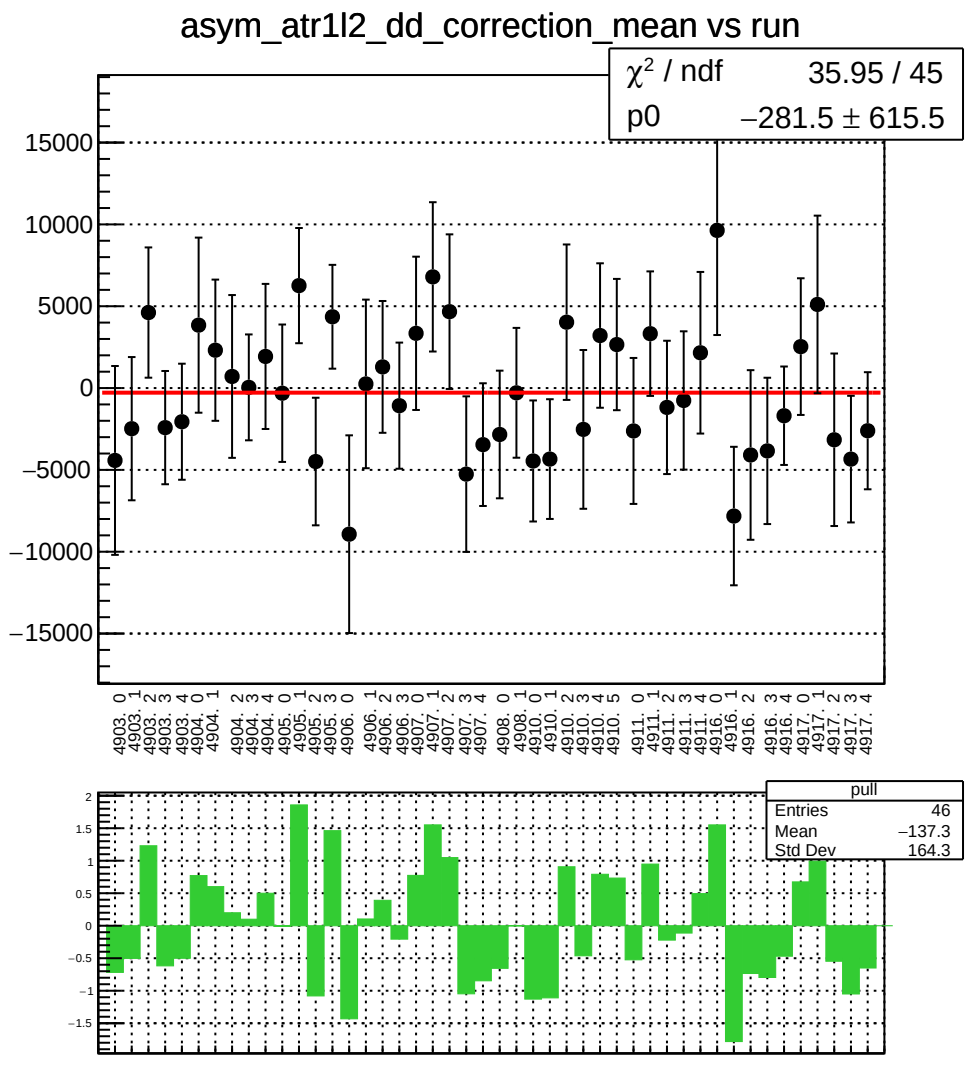

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.191e+05 / 45
p0 146.1 ± 0.163
300
250
200
150
100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

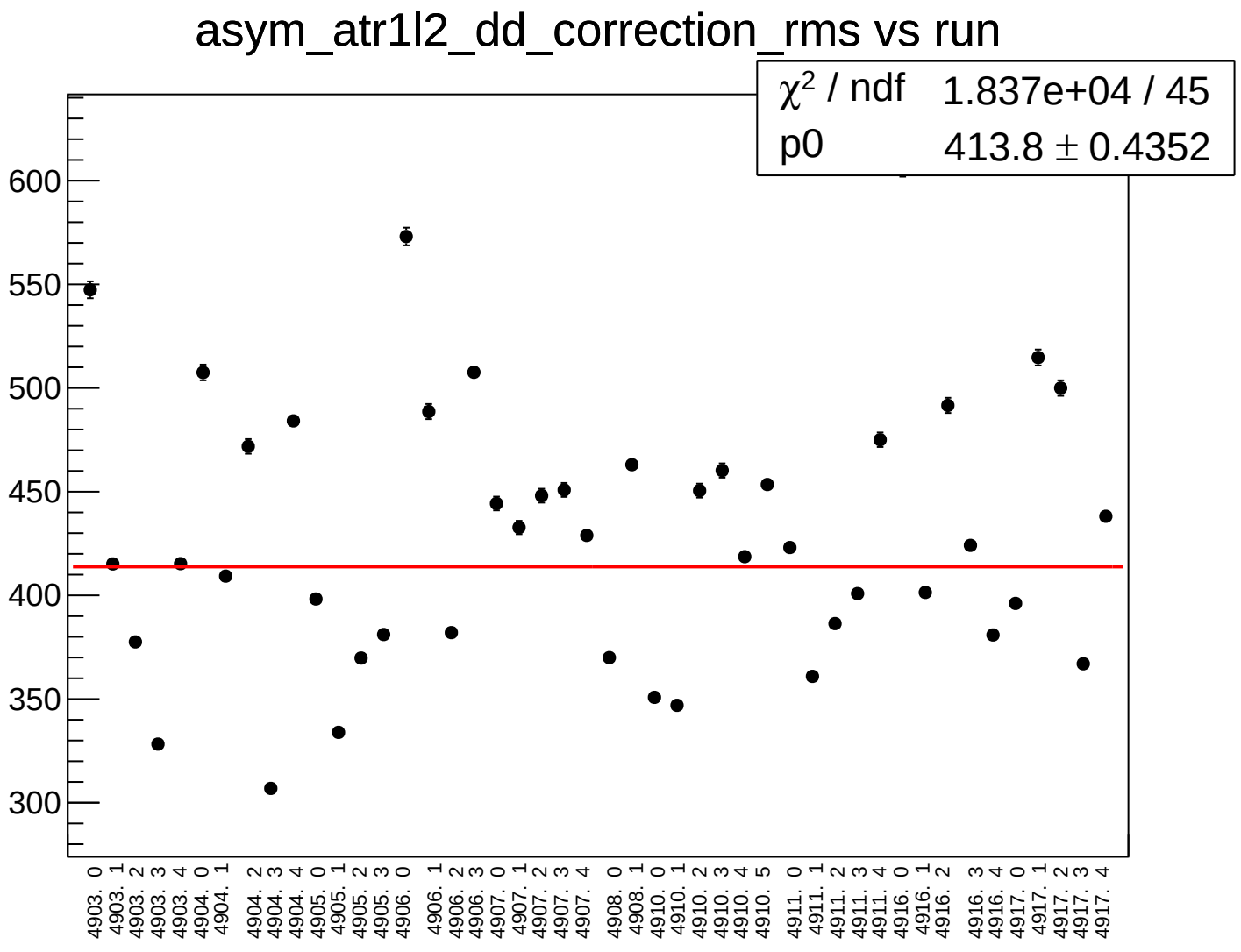

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 40.21 / 45
p0 −4686 ± 9564
150
100
50
0
−50
−100
−150
−200
−250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 29.88
Std Dev 30.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.03434
Std Dev 0.9343
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_rms vs run
χ² / ndf 53.26 / 45
p0 6495 ± 6.762
6650
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 39.11 / 45
p0 −1729 ± 9570
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −51.18
Std Dev 75.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01333
Std Dev 0.9219
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 45.62 / 45
p0 6499 ± 6.767
6650
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 35.95 / 45
p0 −281.5 ± 615.5
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −137.3
Std Dev 164.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.01044
Std Dev 0.8839
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.837e+04 / 45
p0 413.8 ± 0.4352
600
550
500
450
400
350
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
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4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
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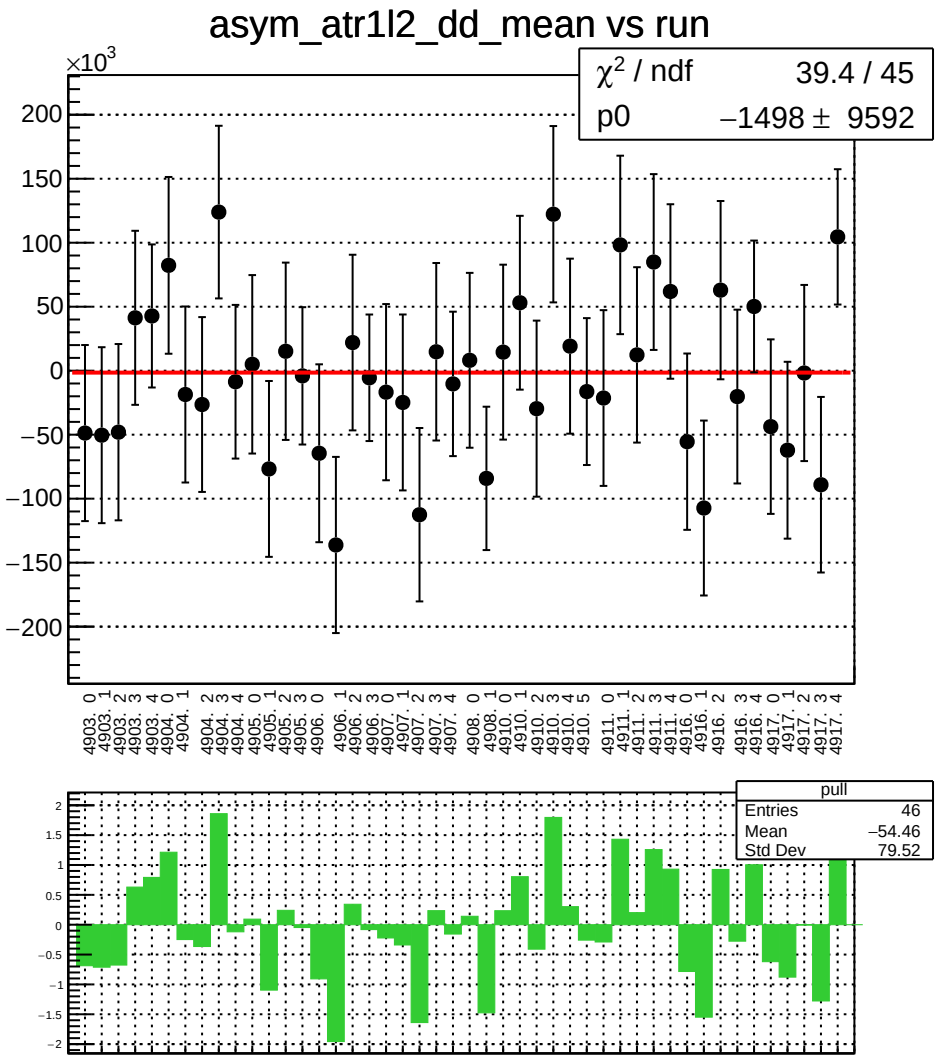
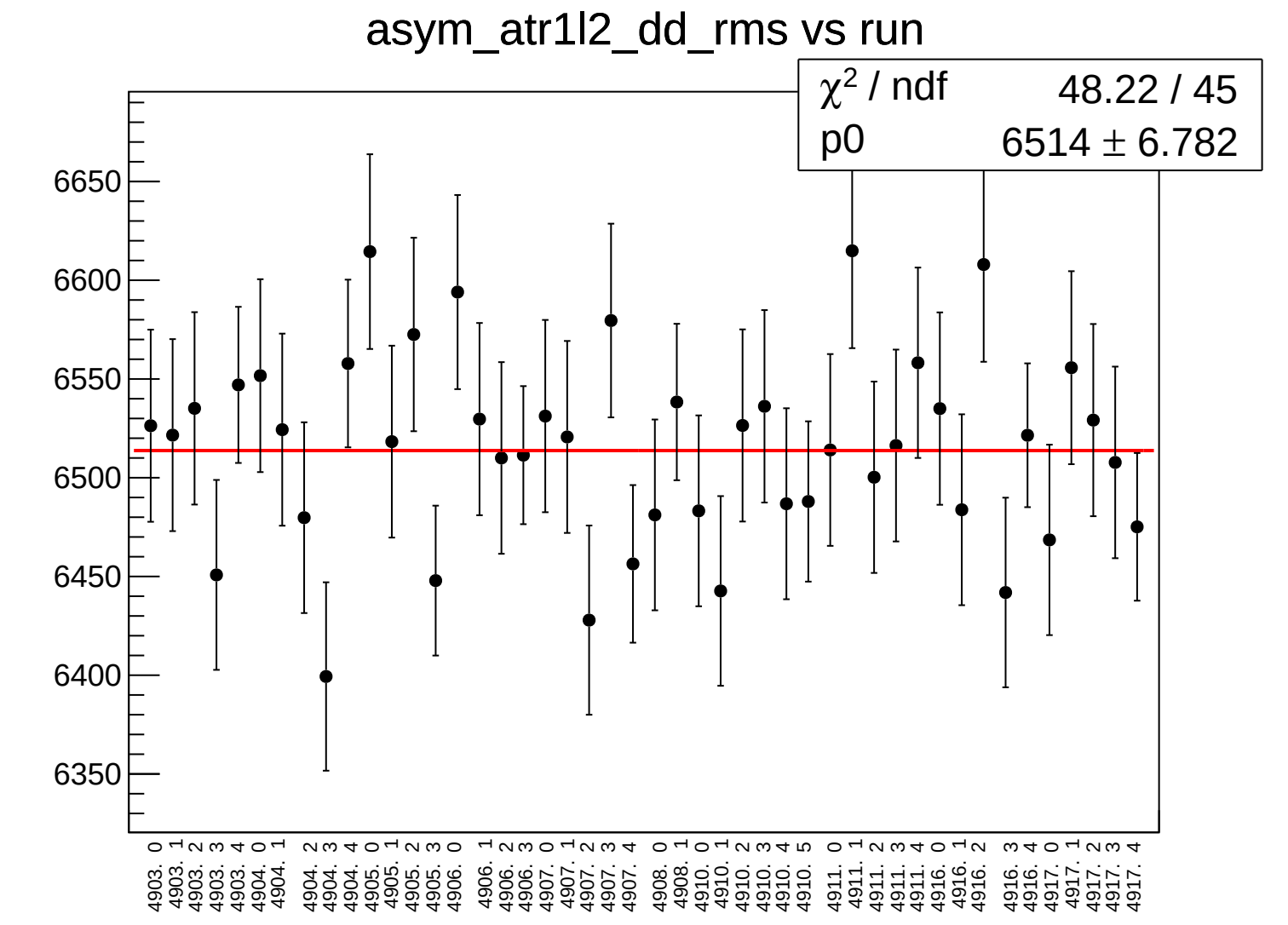
4917. 3
4917. 4


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 39.4 / 45
p0 −1498 ± 9592
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −54.46
Std Dev 79.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0137
Std Dev 0.9254
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 48.22 / 45
p0 6514 ± 6.782
6650
6600
6550
6500
6450
6400
6350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
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4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
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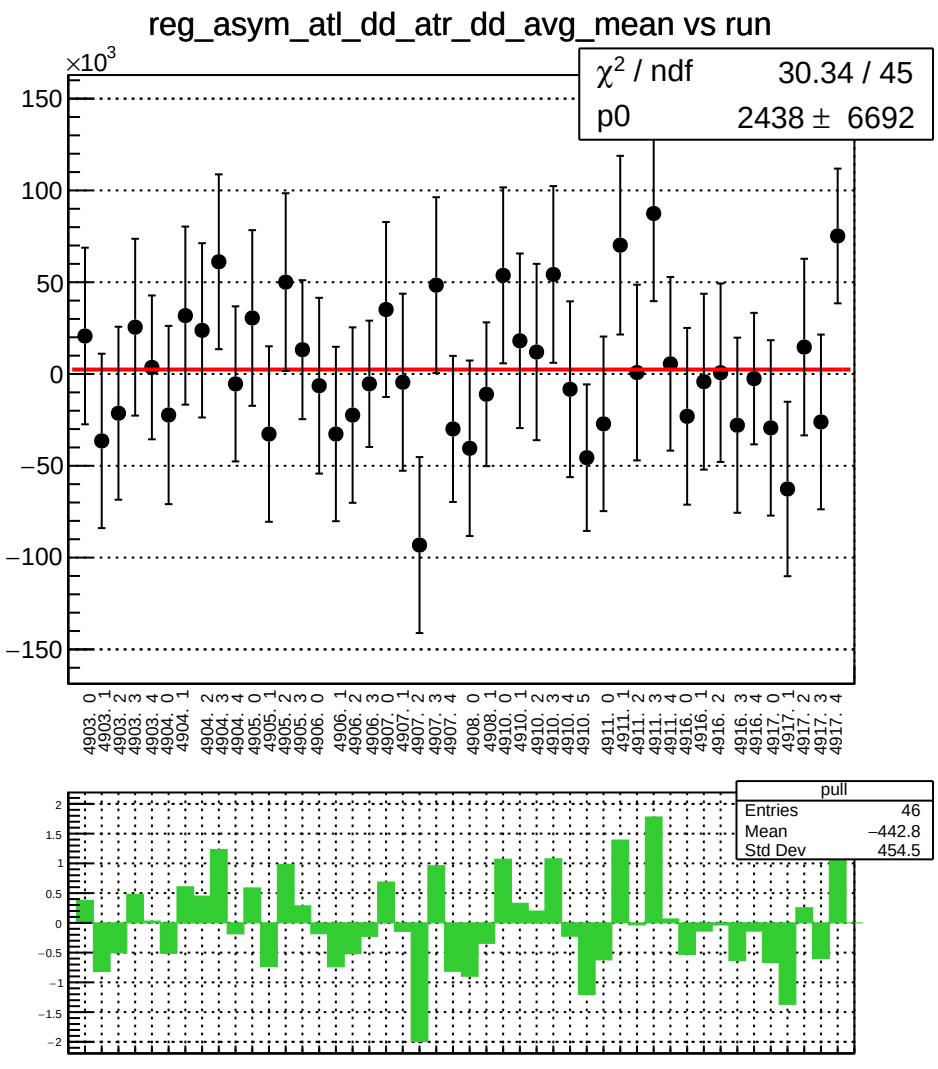
4917. 2
4917. 3
4917. 4


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 30.34 / 45
p0 2438 ± 6692
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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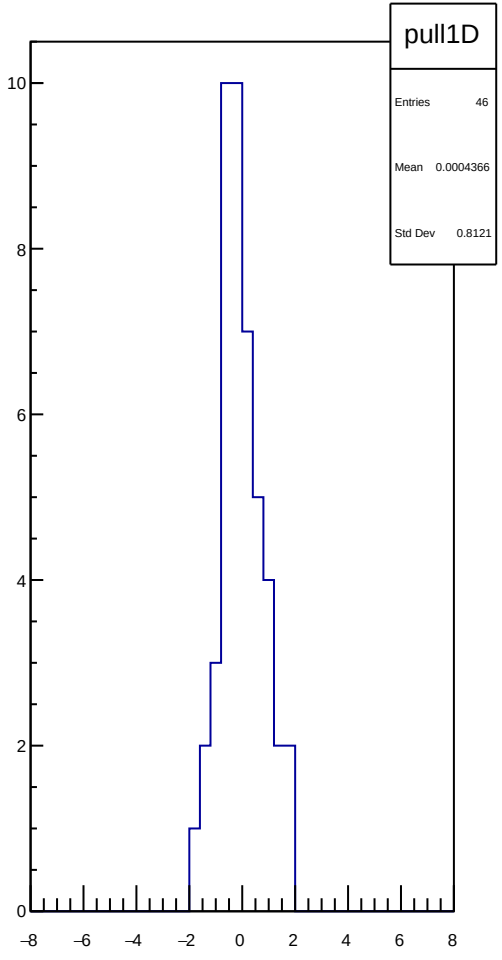
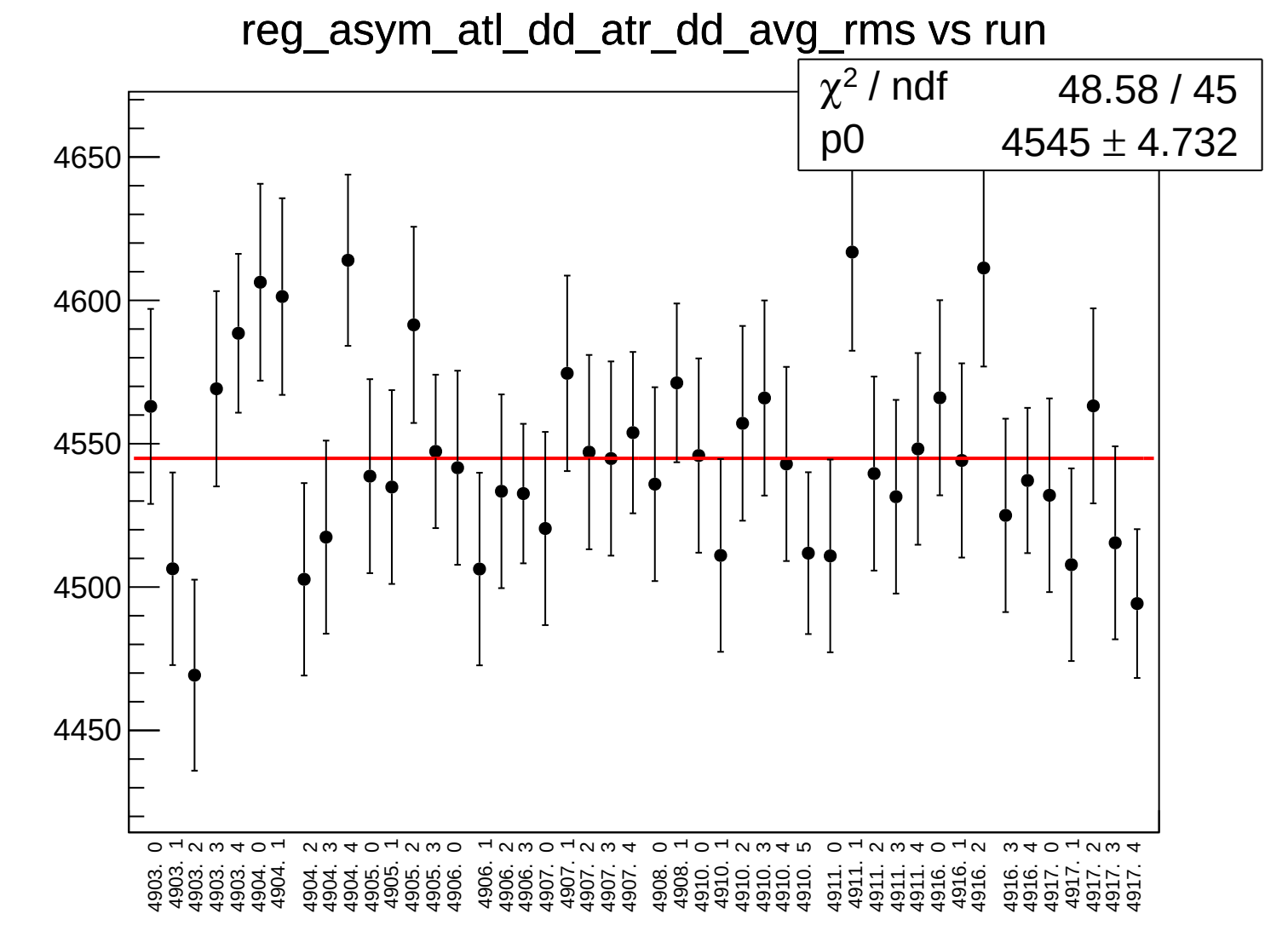
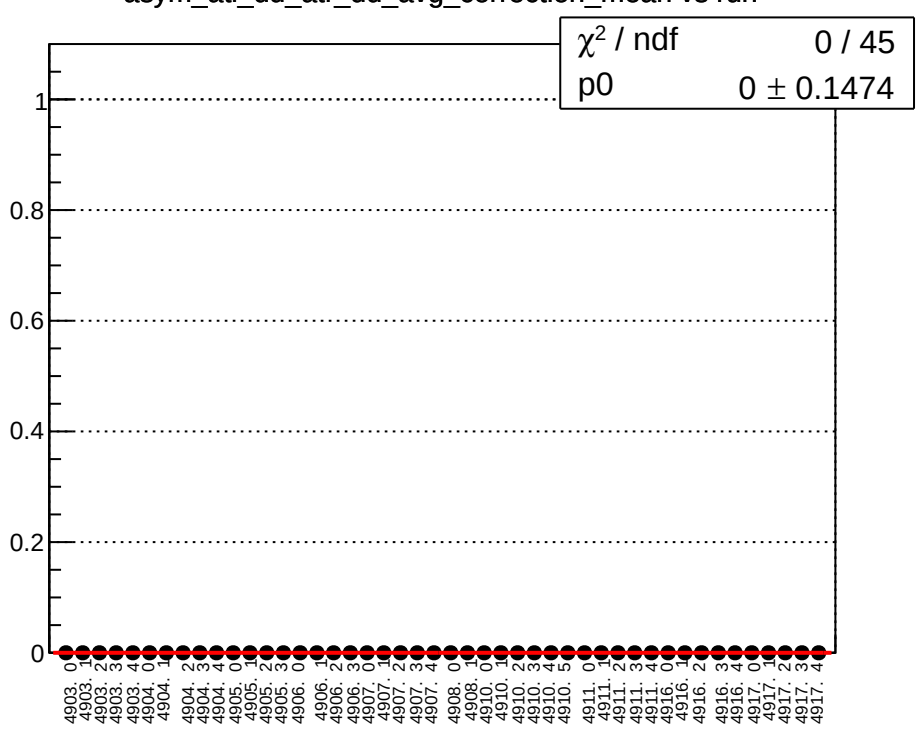
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −442.8
Std Dev 454.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.0004366
Std Dev 0.8121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 48.58 / 45
p0 4545 ± 4.732
4650
4600
4550
4500
4450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
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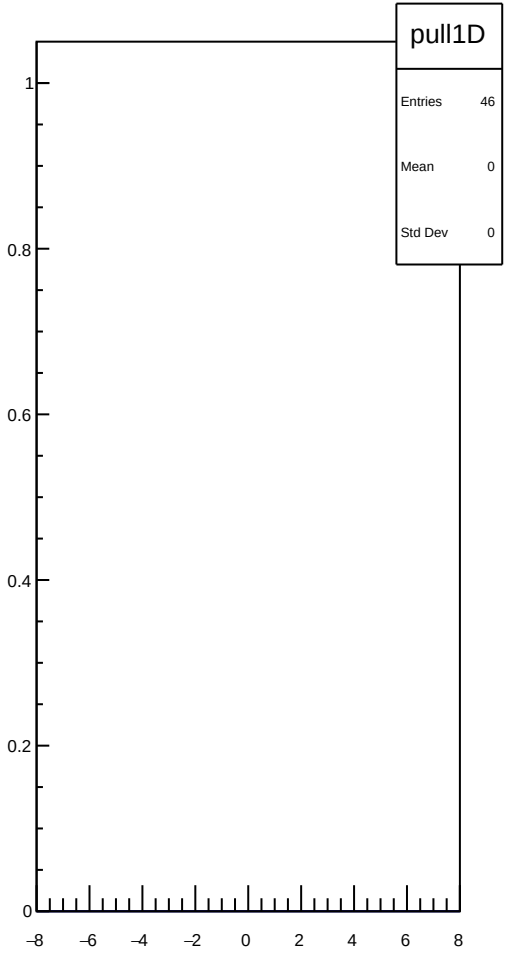
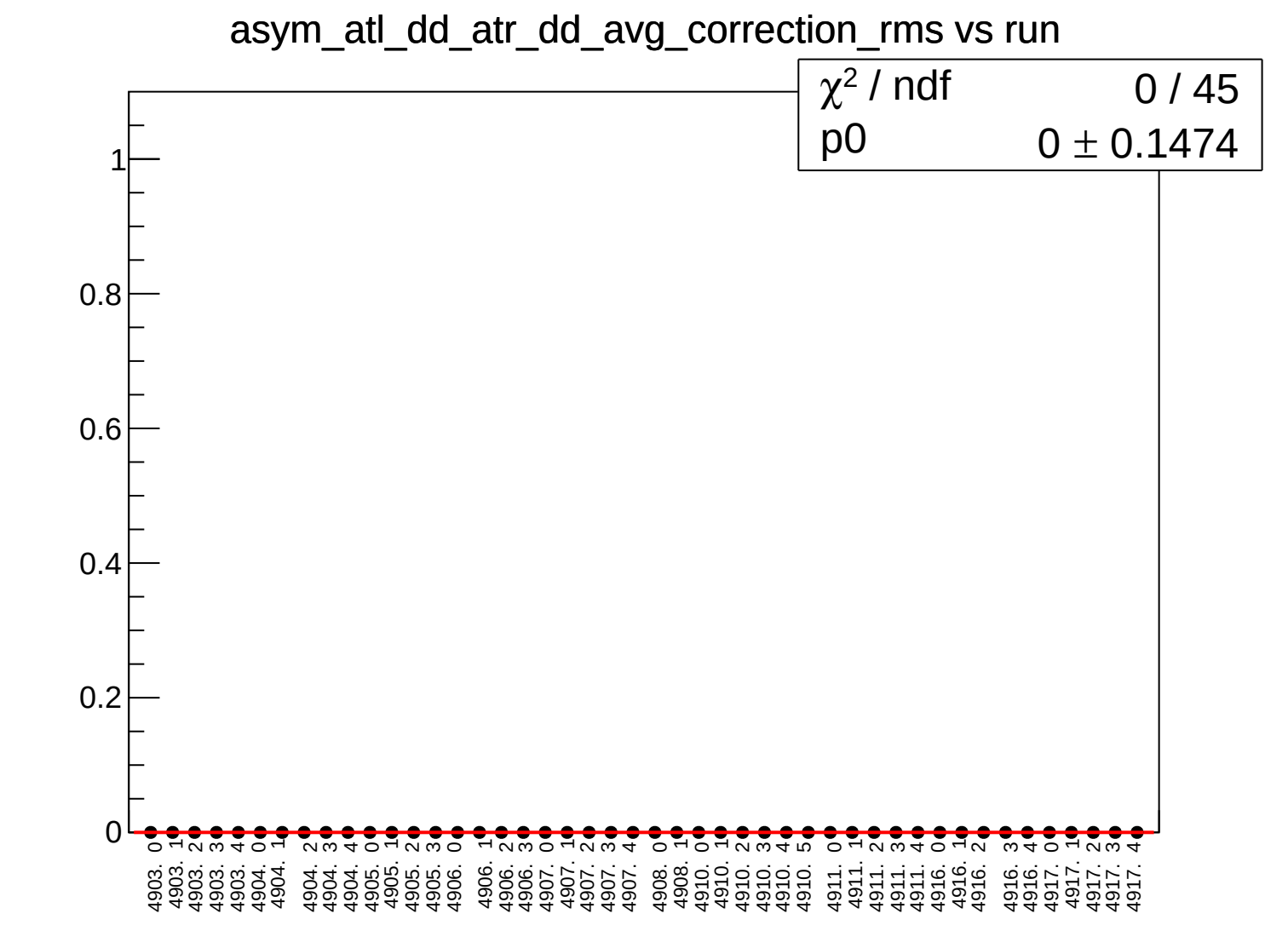
4917. 4


pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
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4907. 1
4907. 2
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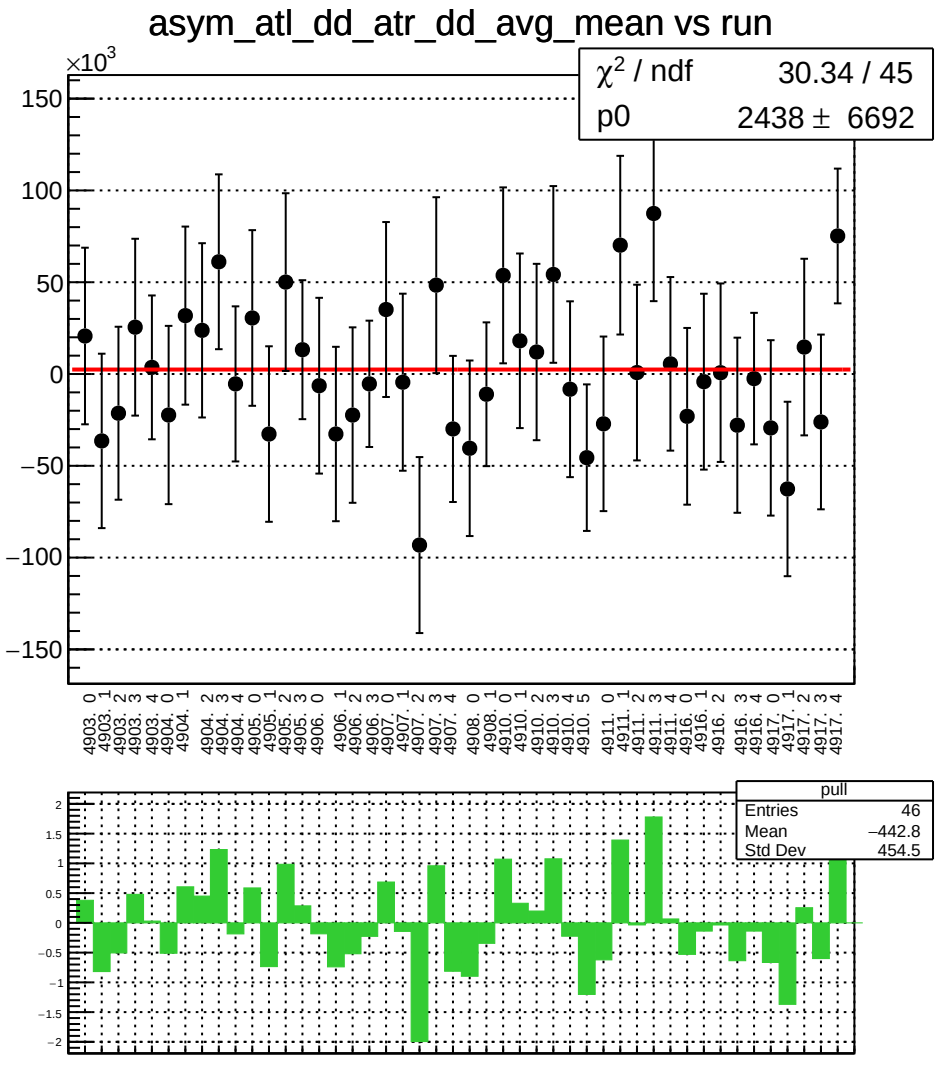
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 30.34 / 45
p0 2438 ± 6692
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
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4907. 4
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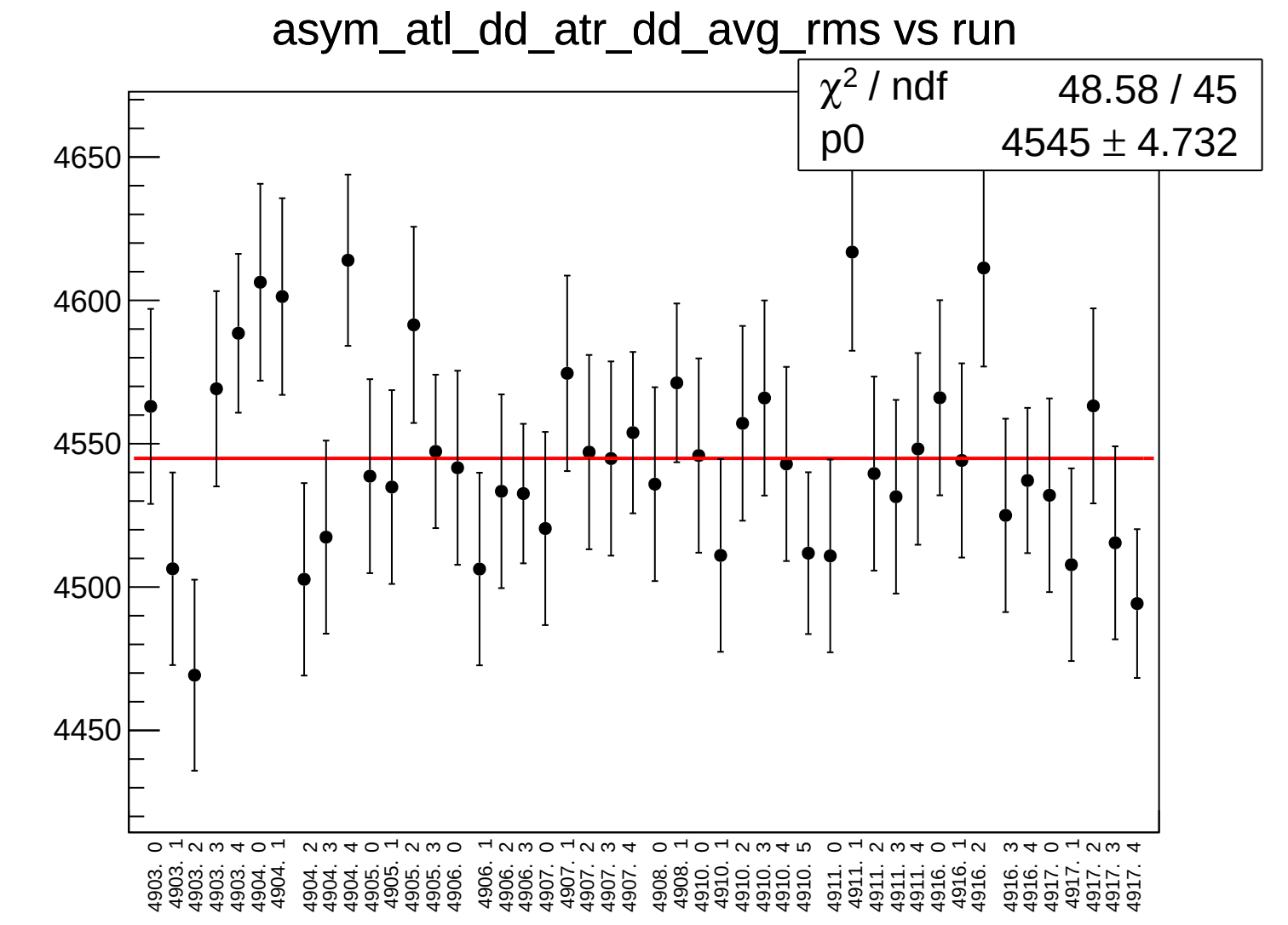
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −442.8
Std Dev 454.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0004366
Std Dev 0.8121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 48.58 / 45
p0 4545 ± 4.732
4650
4600
4550
4500
4450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
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4904. 2
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4905. 1
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4906. 0
4906. 1
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4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
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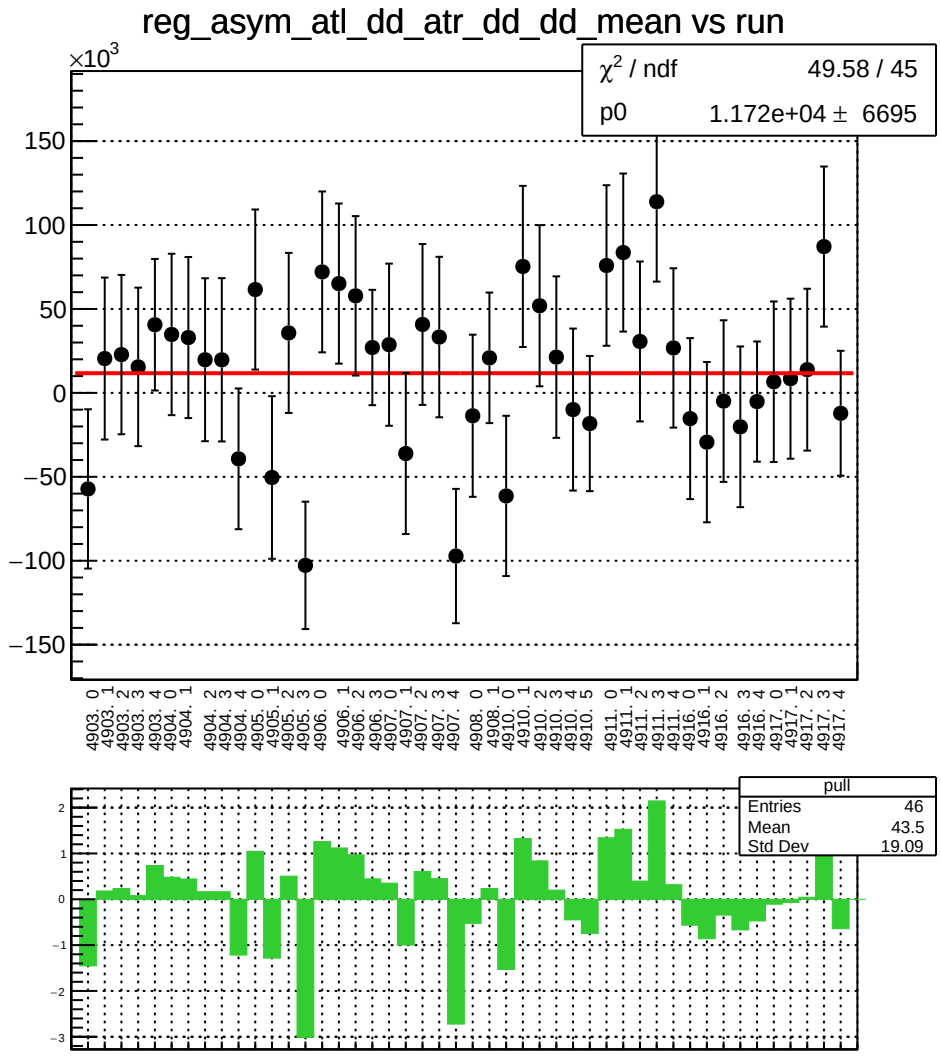
4917. 3
4917. 4


reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 49.58 / 45
p0 1.172e+04 ± 6695
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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4906. 3
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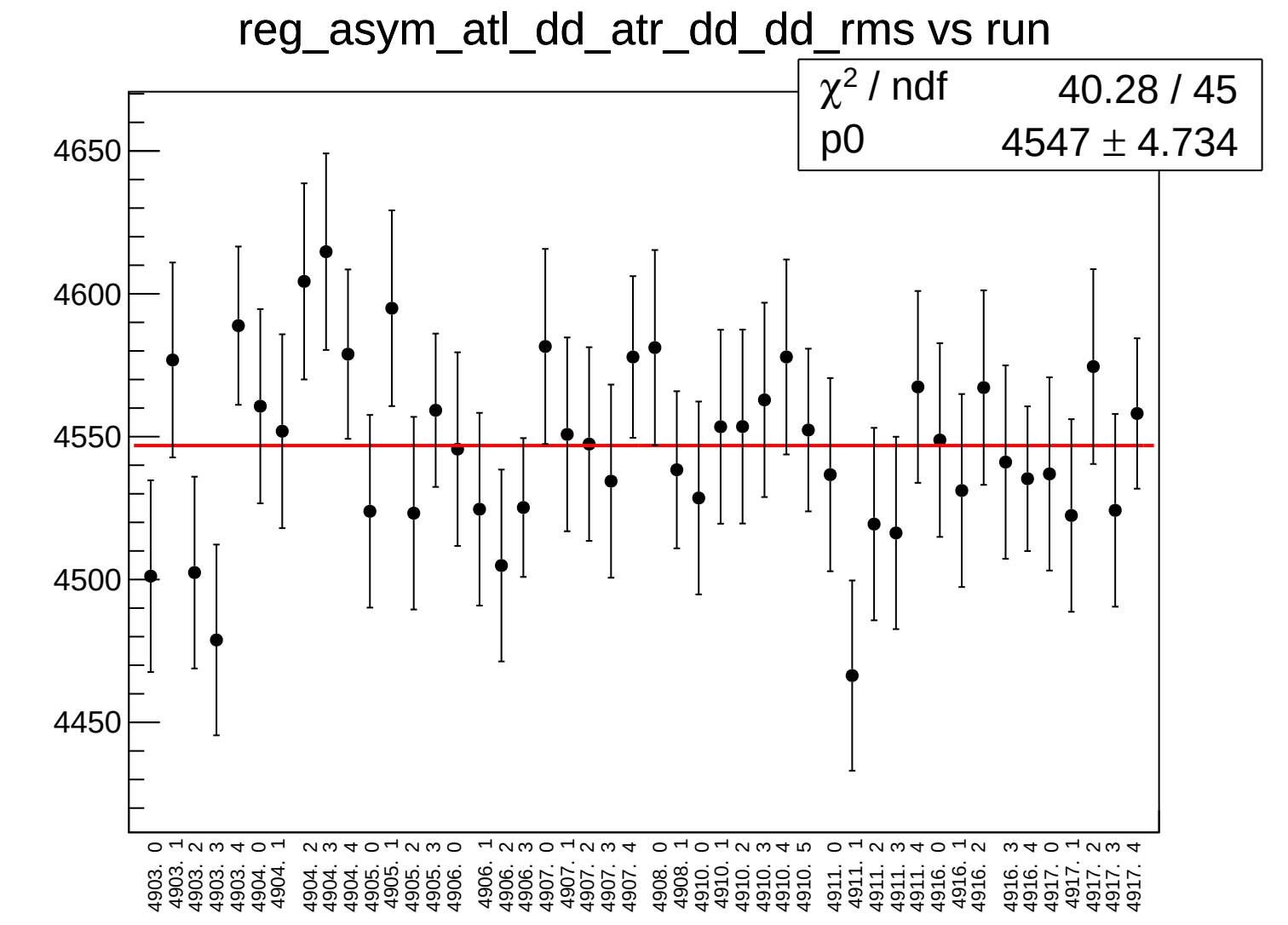
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 43.5
Std Dev 19.09
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.03322
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 40.28 / 45
p0 4547 ± 4.734
4650
4600
4550
4500
4450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
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4907. 4
4908. 0
4908. 1
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4910. 1
4910. 2
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4911. 0
4911. 1
4911. 2
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4911. 4
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4916. 4
4917. 0
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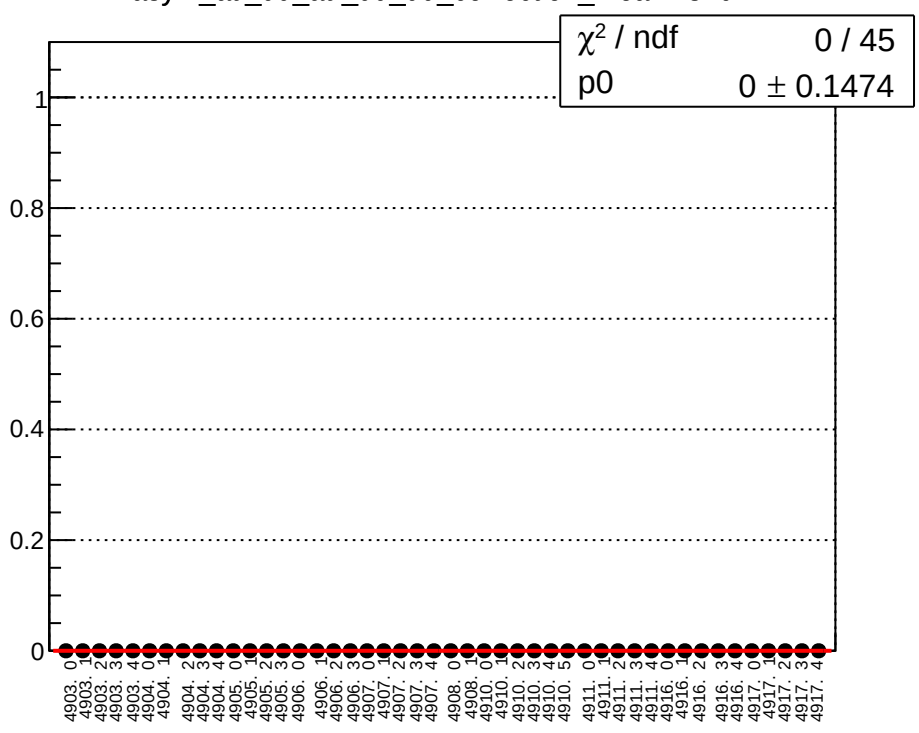
4917. 3
4917. 4


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
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4908. 1
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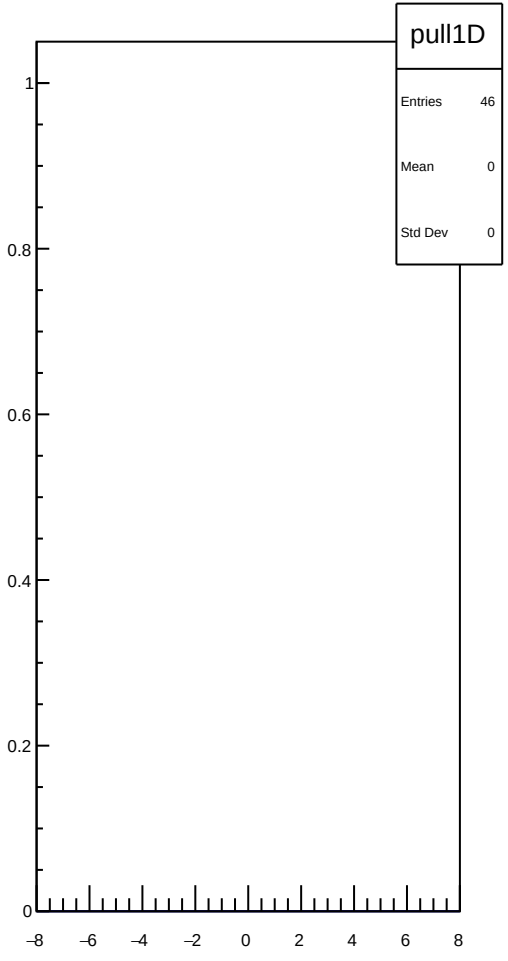
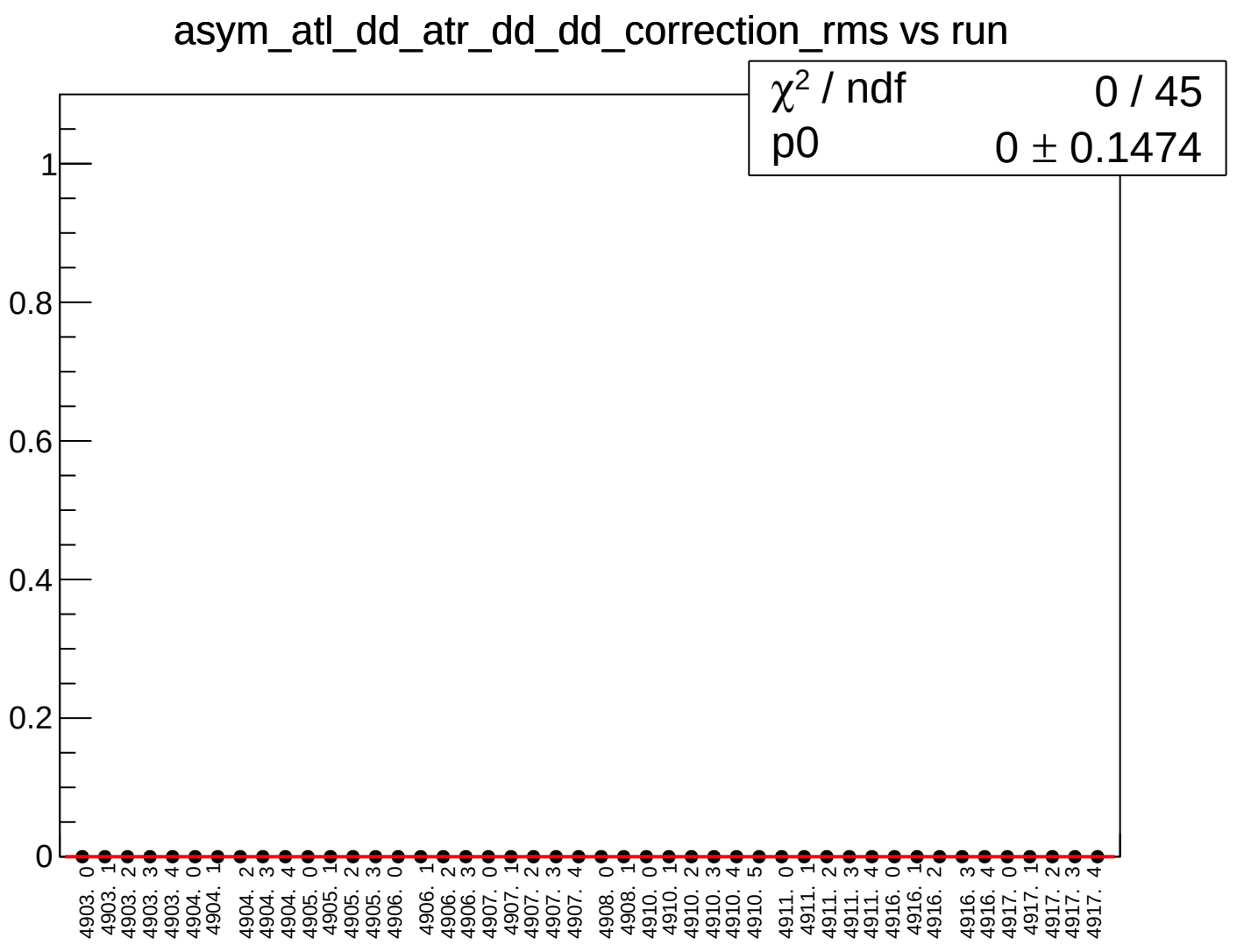

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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4907. 4
4908. 0
4908. 1
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4910. 2
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4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
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4916. 2
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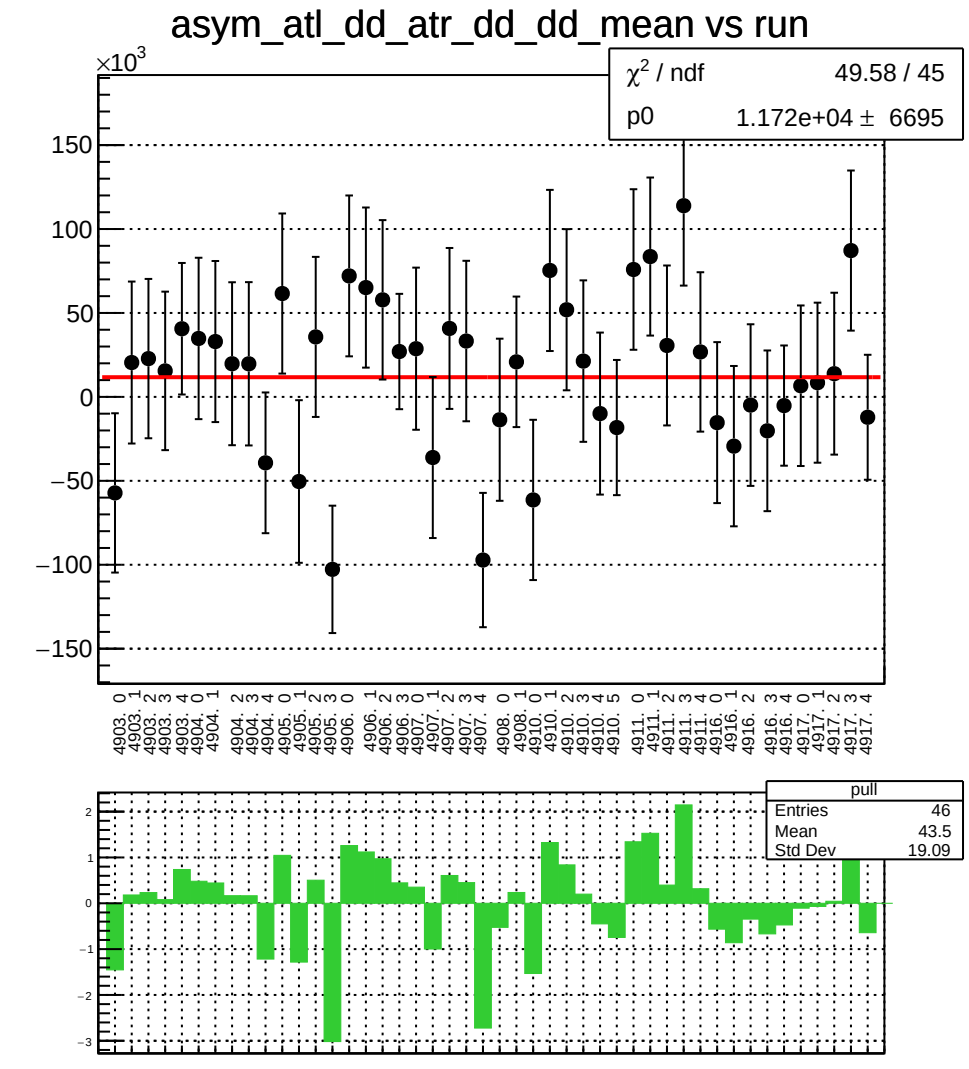
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 49.58 / 45
p0 1.172e+04 ± 6695
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 43.5
Std Dev 19.09
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.03322
Std Dev 1.038
10
8
6
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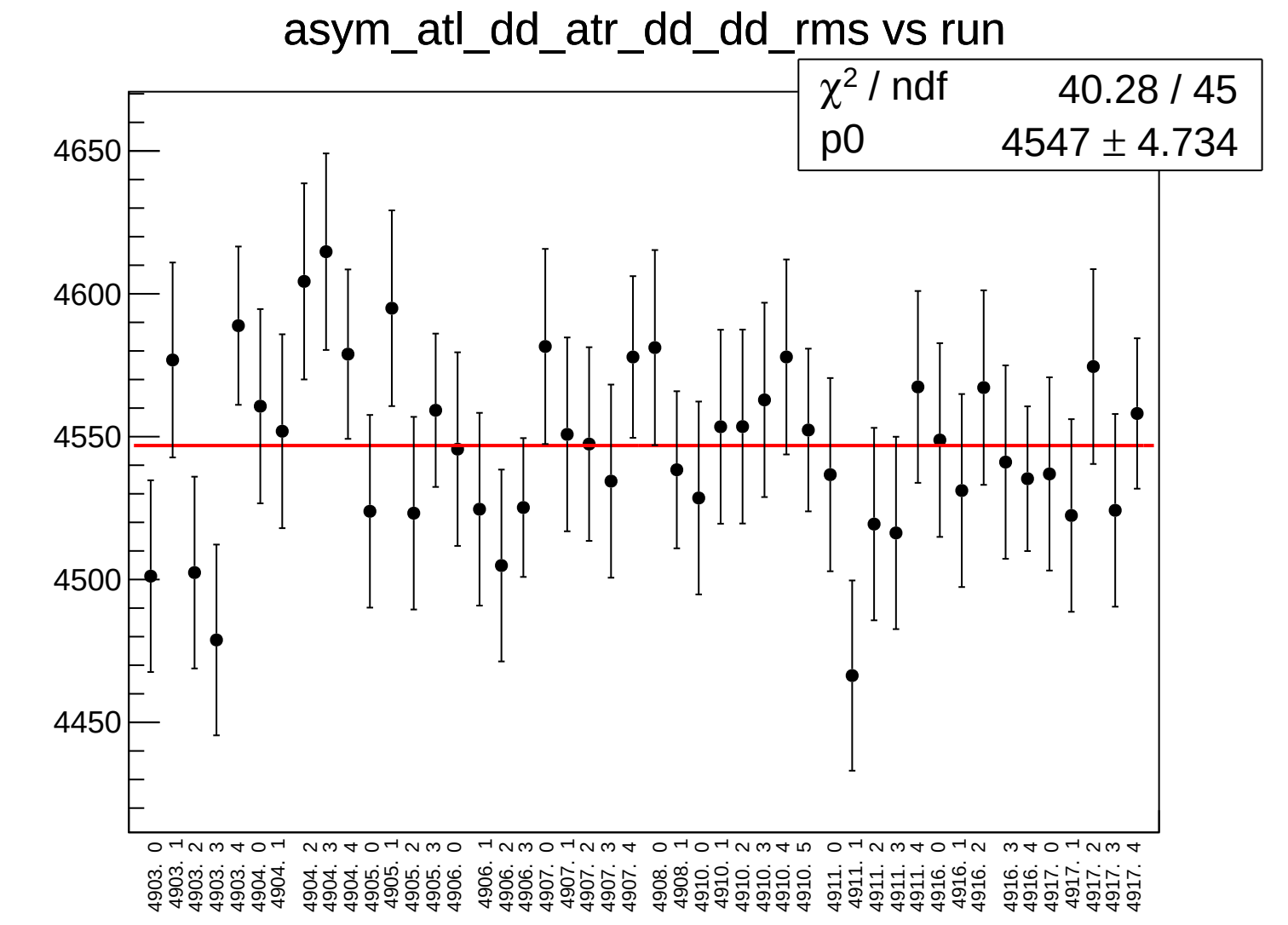
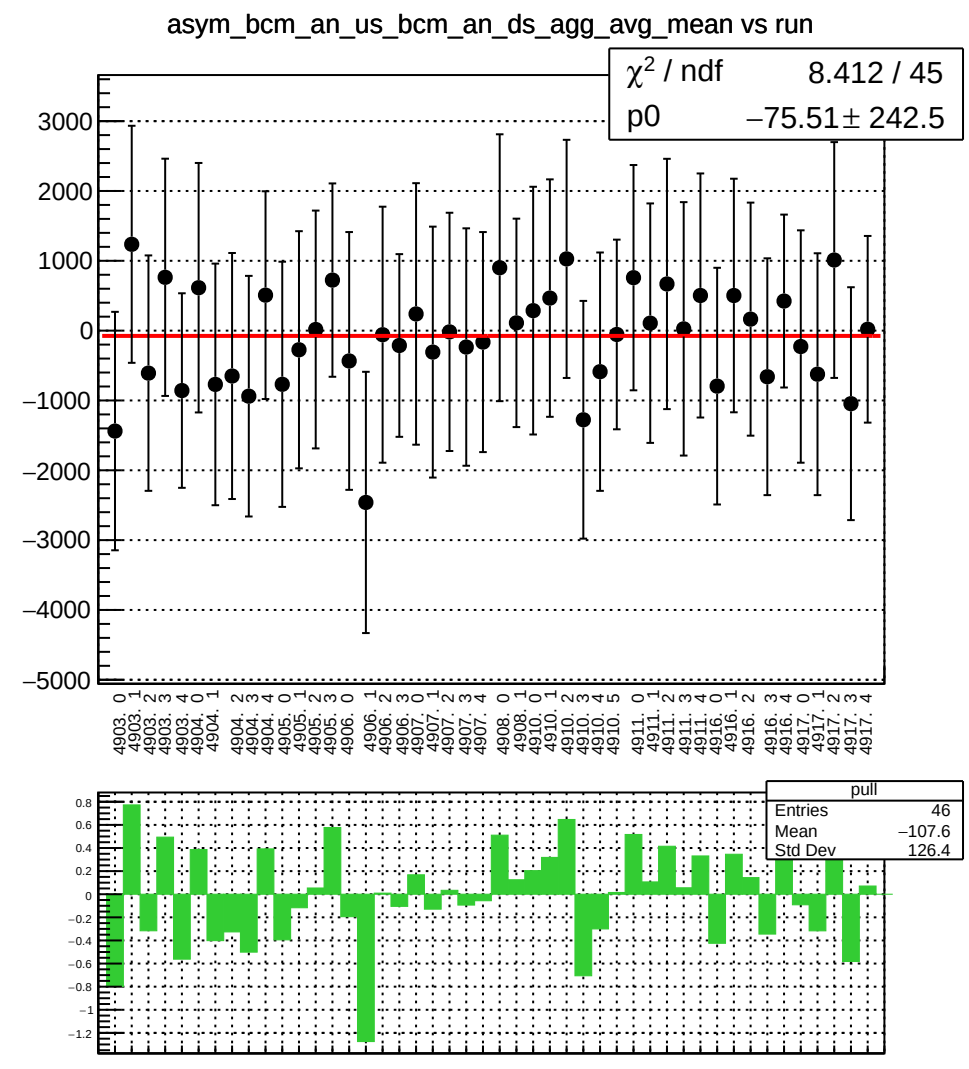
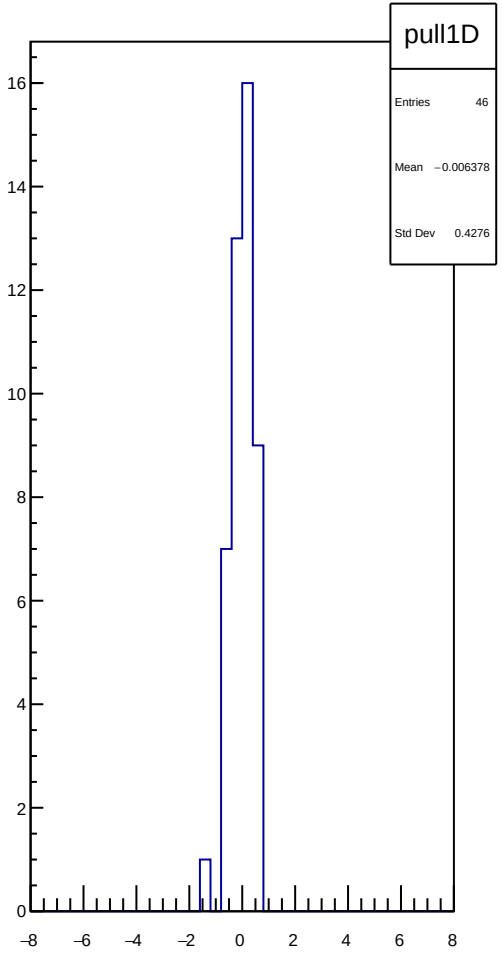
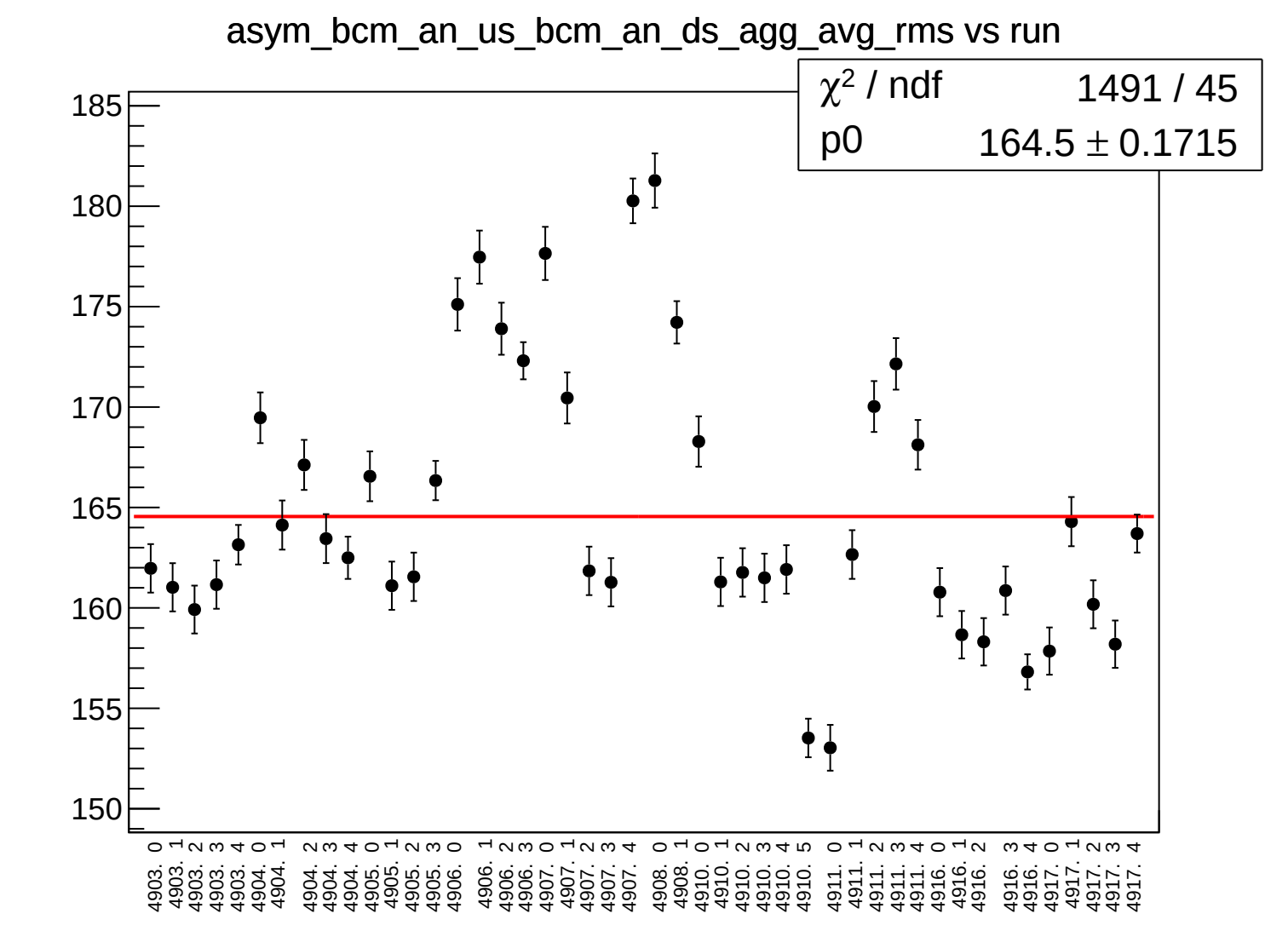
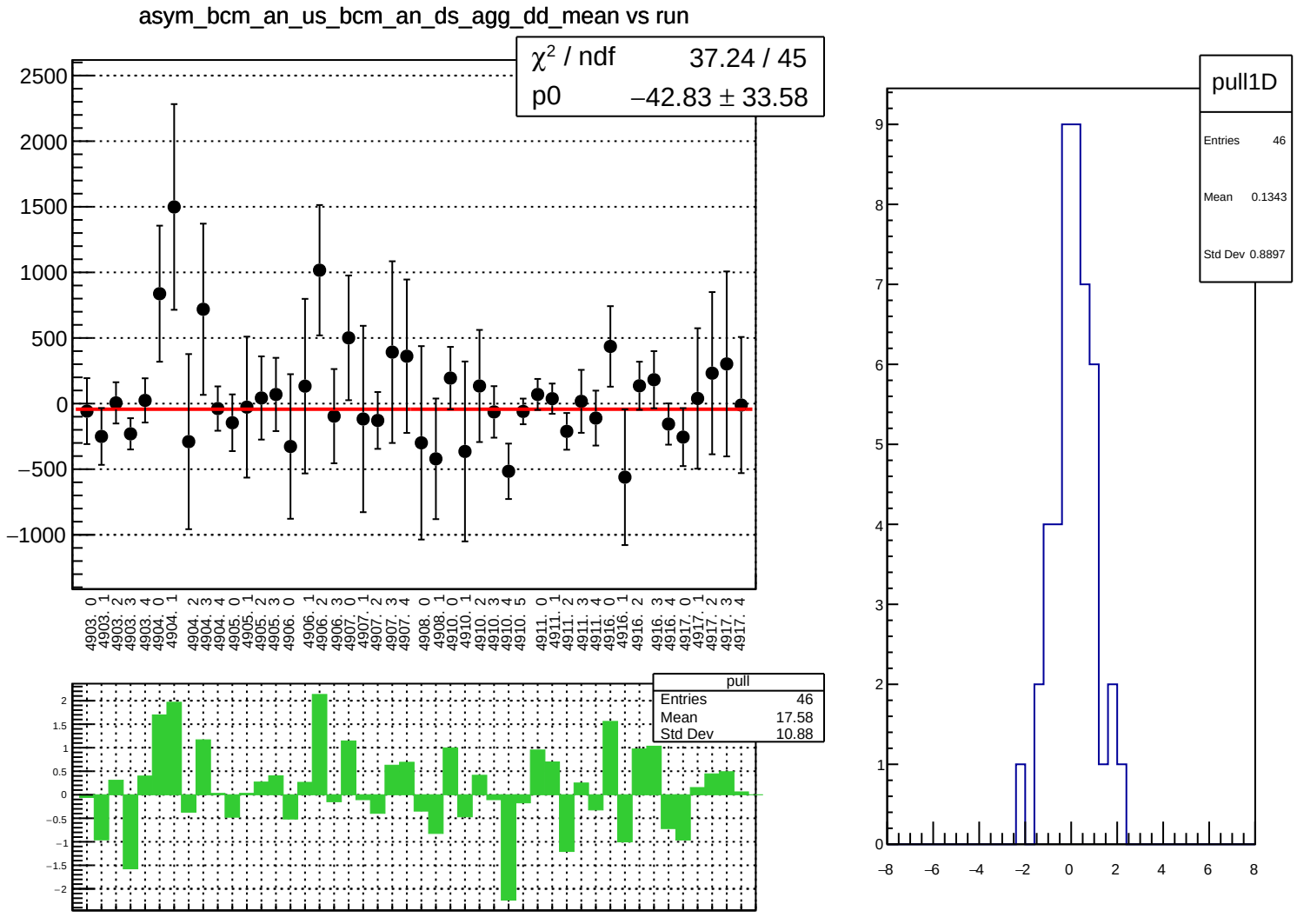
2
0
−8
−6
−4
−2
0
2
4
6
8

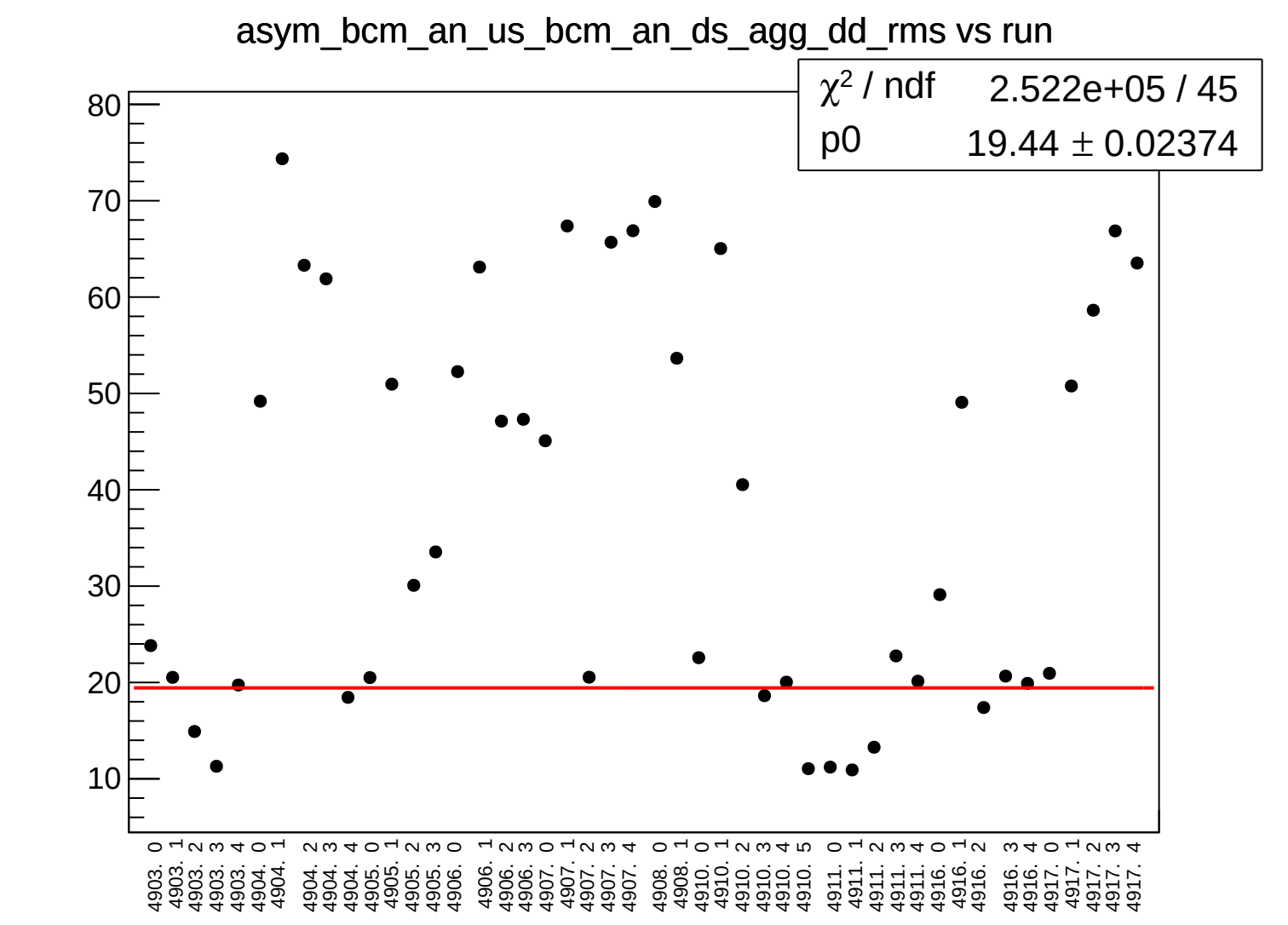

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 40.28 / 45
p0 4547 ± 4.734
4650
4600
4550
4500
4450
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

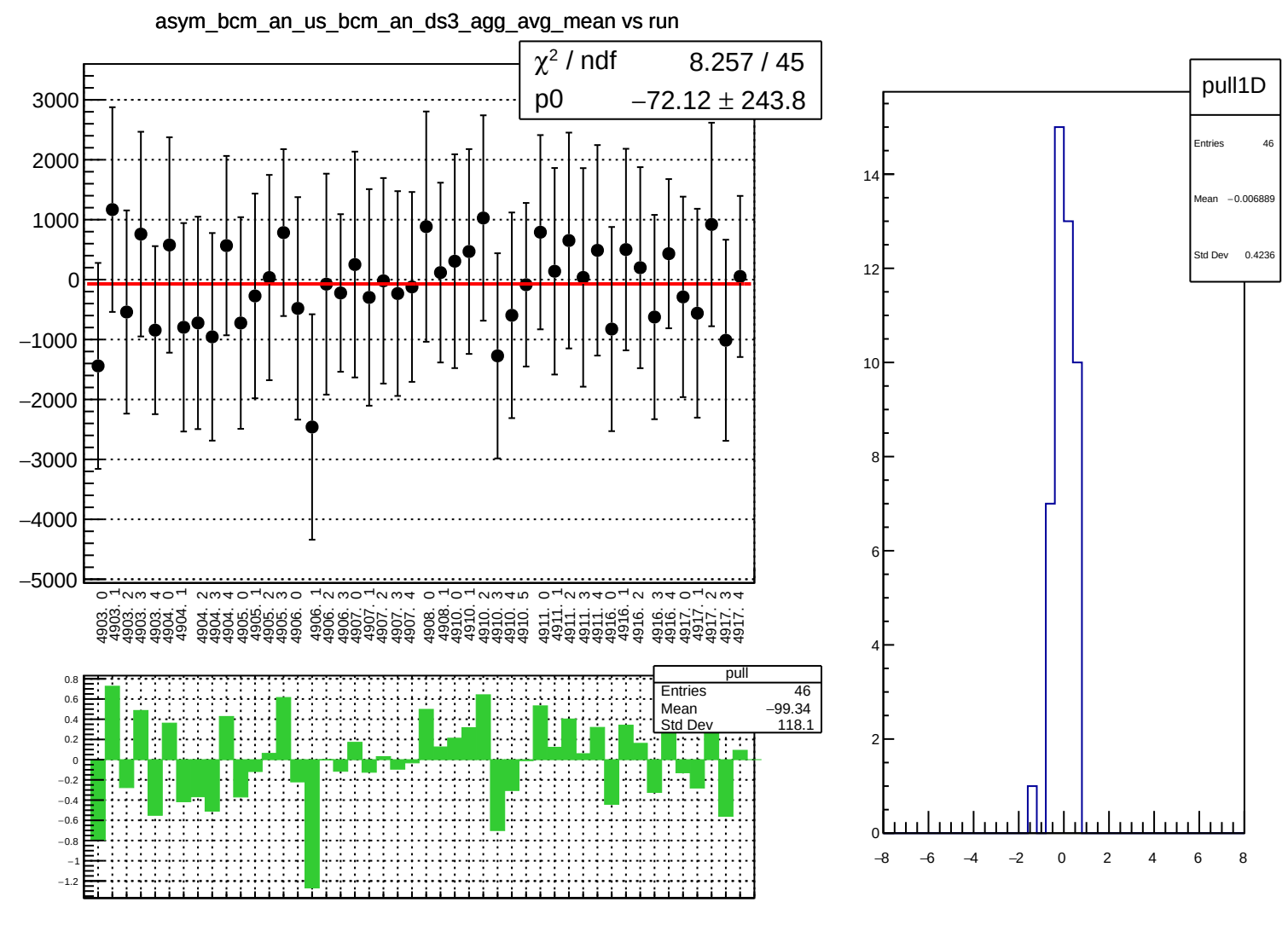

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.412 / 45
p0 −75.51 ± 242.5
pull
Entries 46
Mean −107.6
Std Dev 126.4

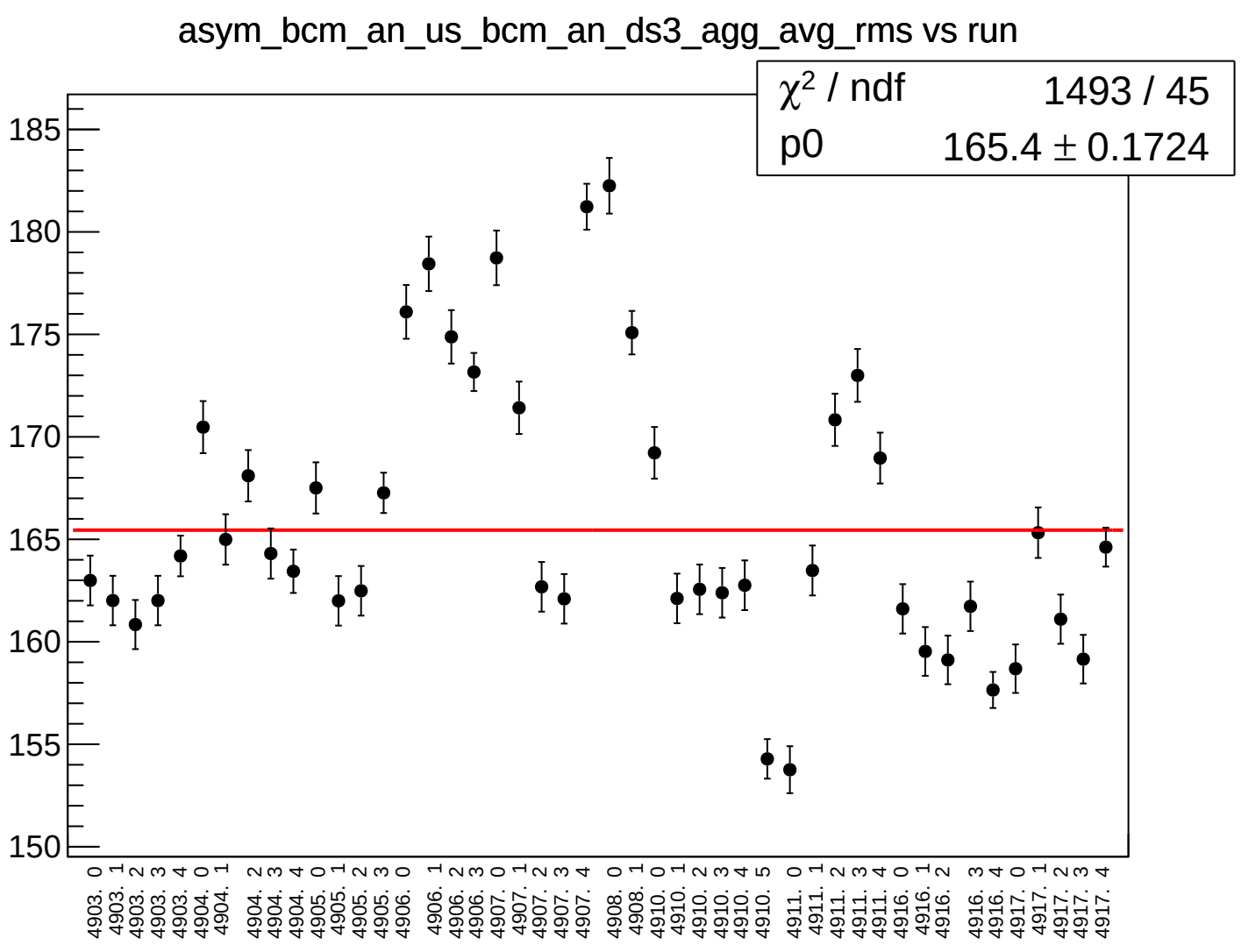

pull1D
Entries 46
Mean −0.006378
Std Dev 0.4276

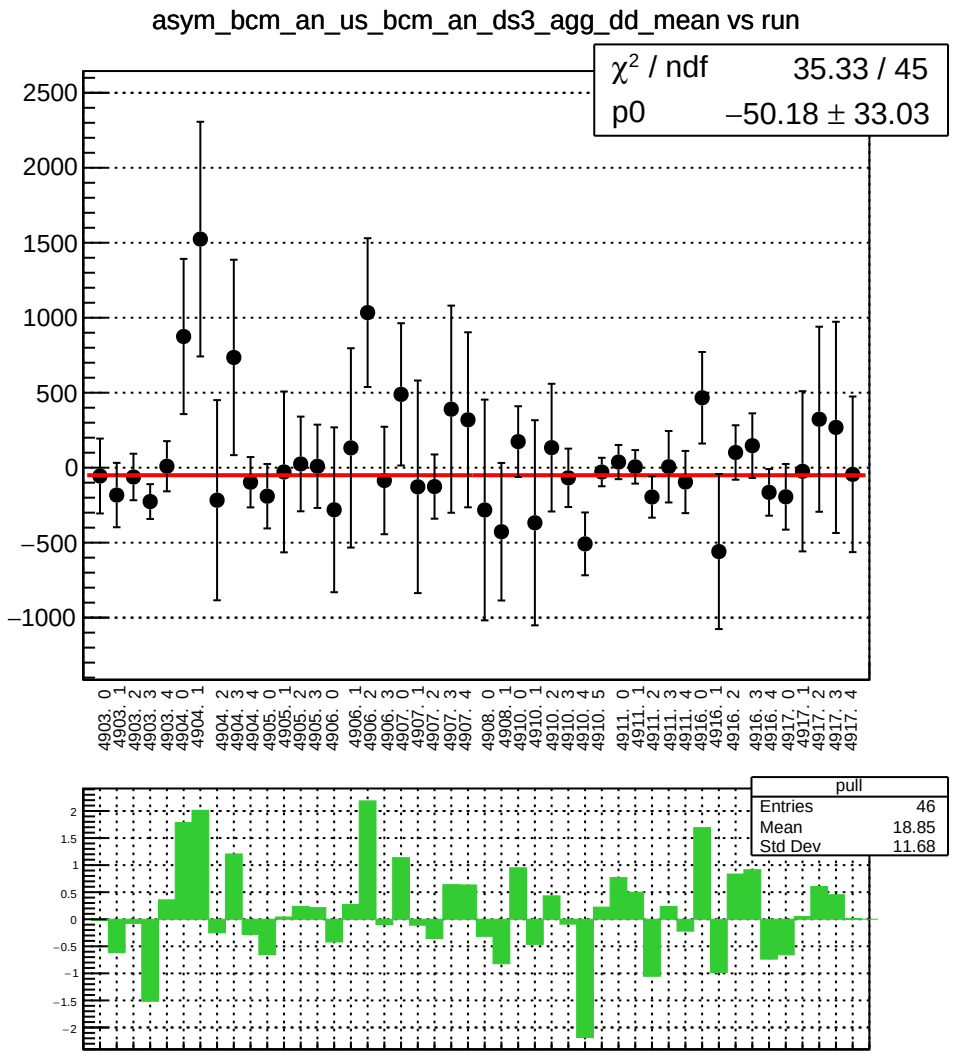

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1491 / 45
p0 164.5 ± 0.1715
185
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

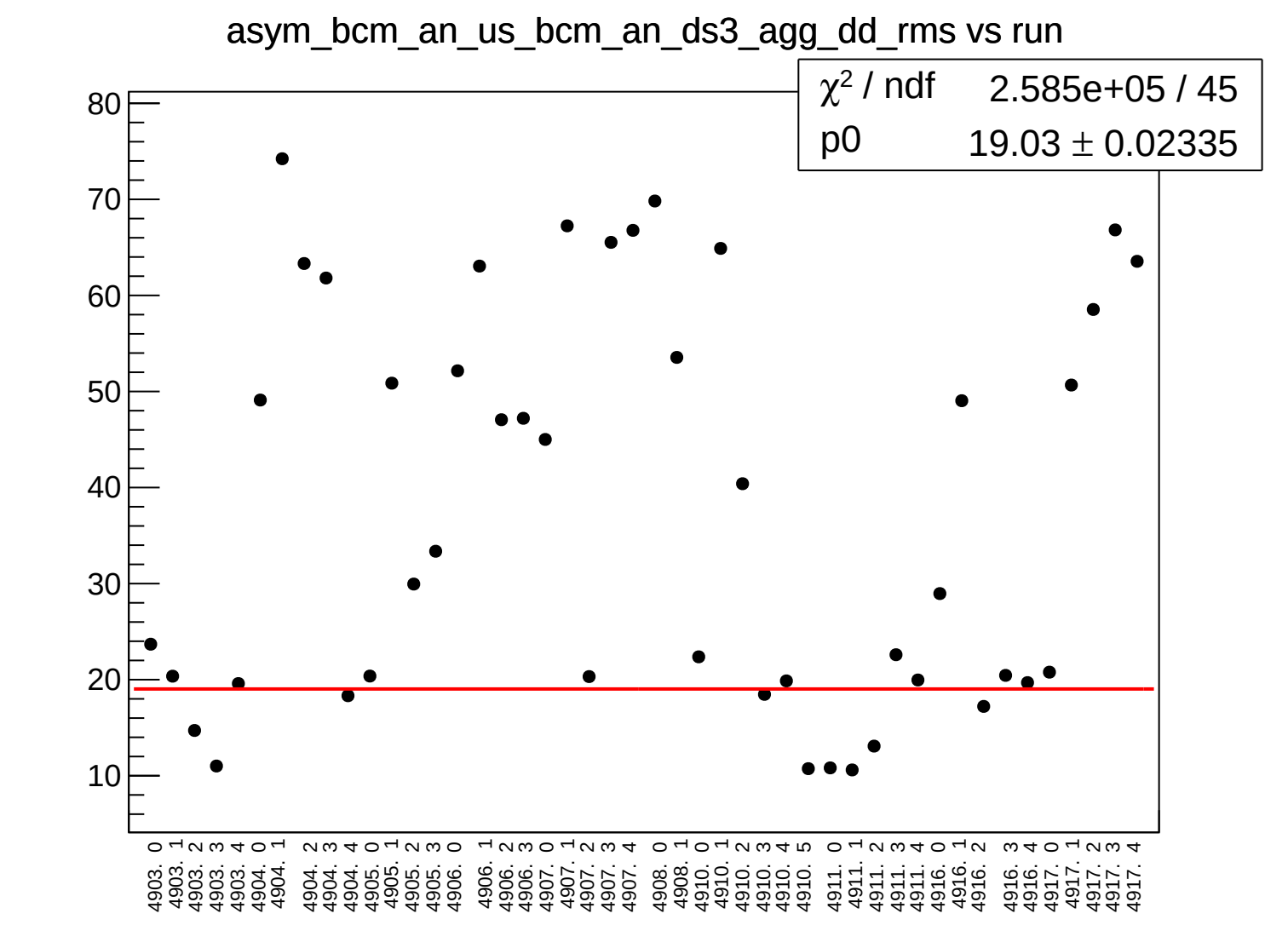

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 37.24 / 45
p0 −42.83 ± 33.58
2500
2000
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 17.58
Std Dev 10.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1343
Std Dev 0.8897
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

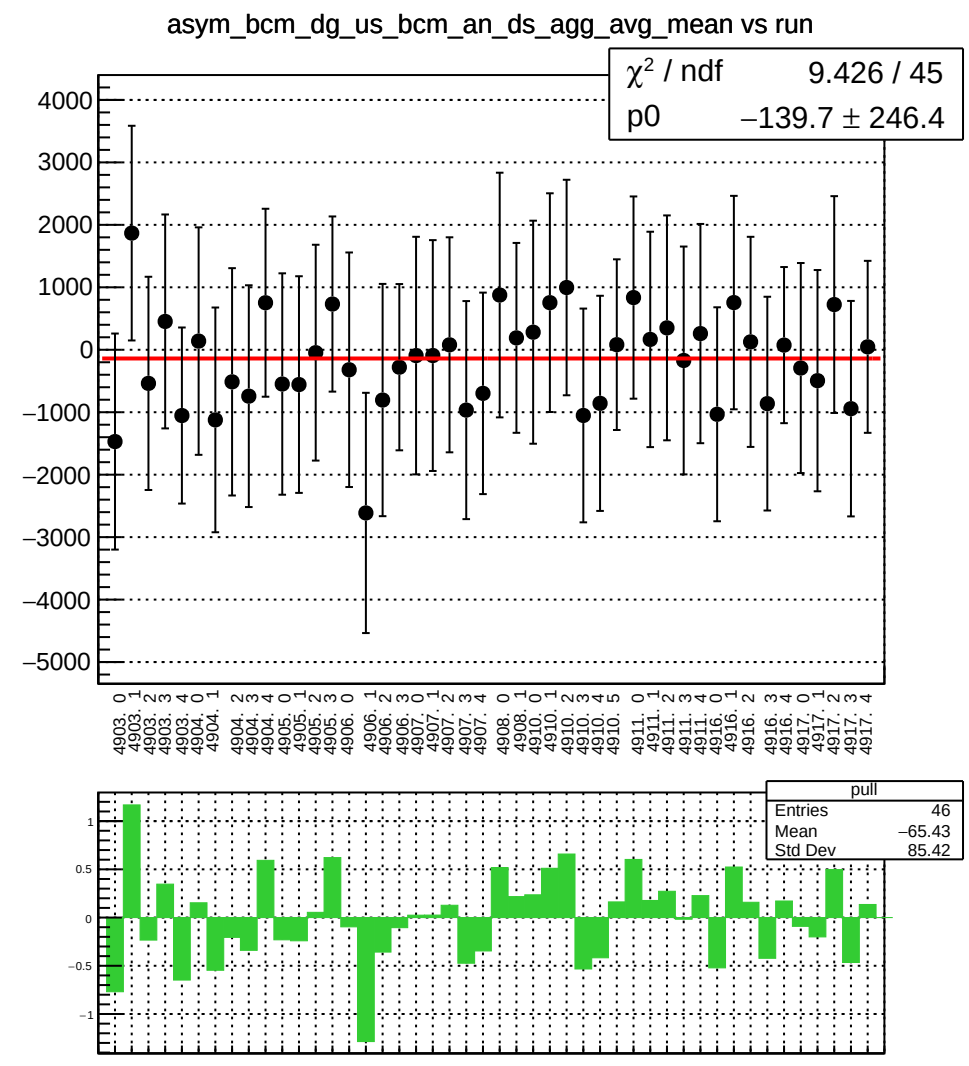

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.522e+05 / 45
p0 19.44 ± 0.02374
80
70
60
50
40
30
20
10
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

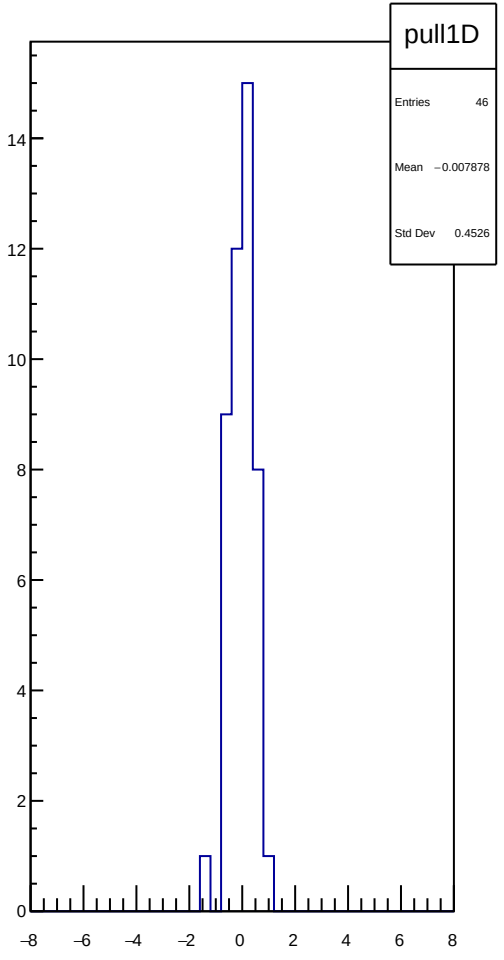

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 8.257 / 45
p0 −72.12 ± 243.8
pull
Entries 46
Mean −99.34
Std Dev 118.1
pull1D
Entries 46
Mean −0.006889
Std Dev 0.4236

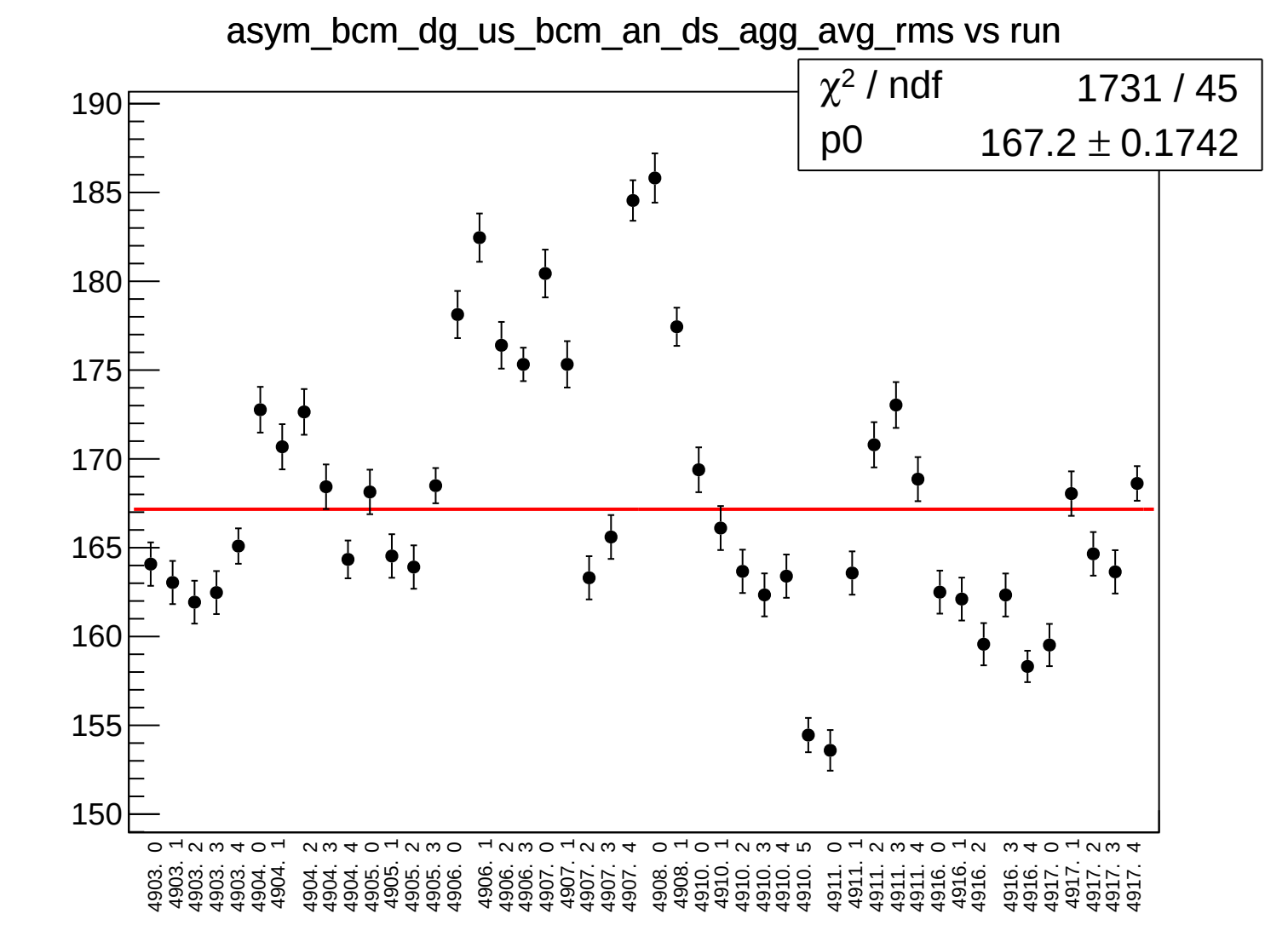

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1493 / 45
p0 165.4 ± 0.1724
185
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

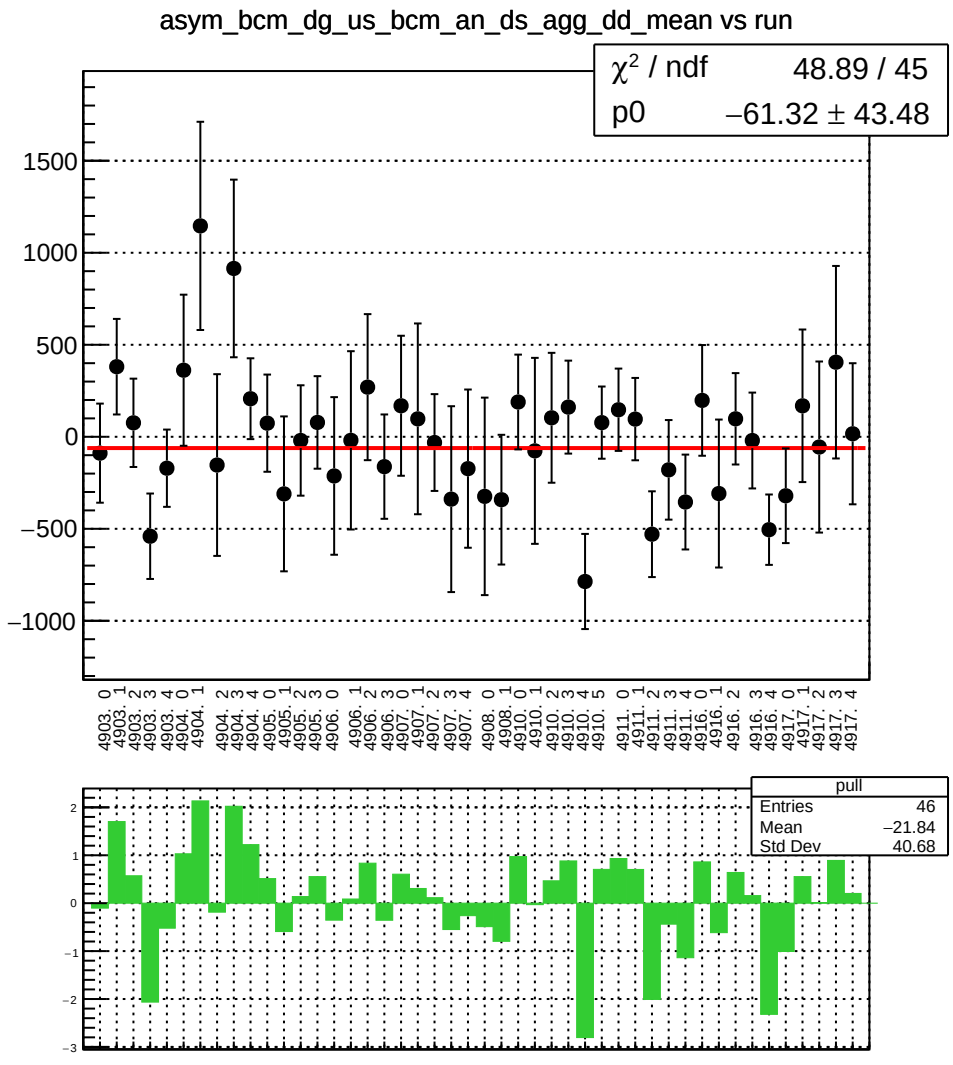

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 35.33 / 45
p0 −50.18 ± 33.03
2500
2000
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 18.85
Std Dev 11.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1407
Std Dev 0.865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

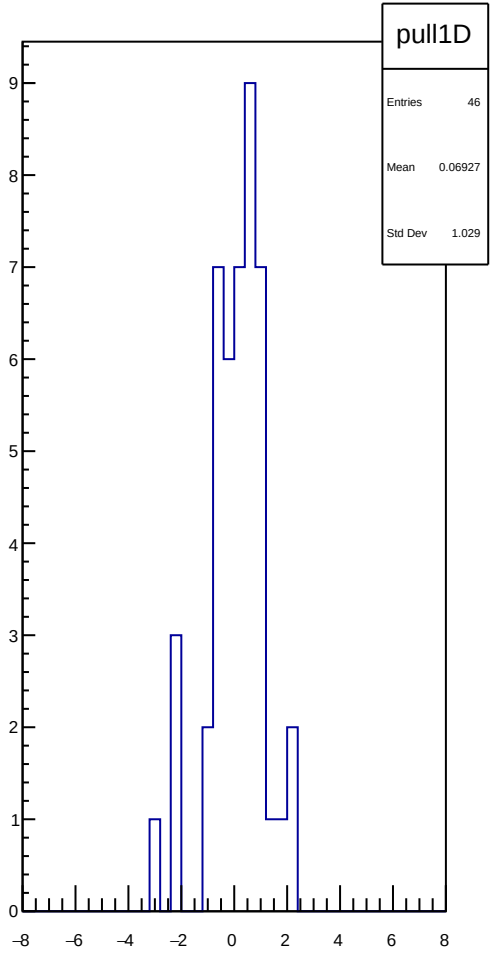

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.585e+05 / 45
p0 19.03 ± 0.02335
80
70
60
50
40
30
20
10
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

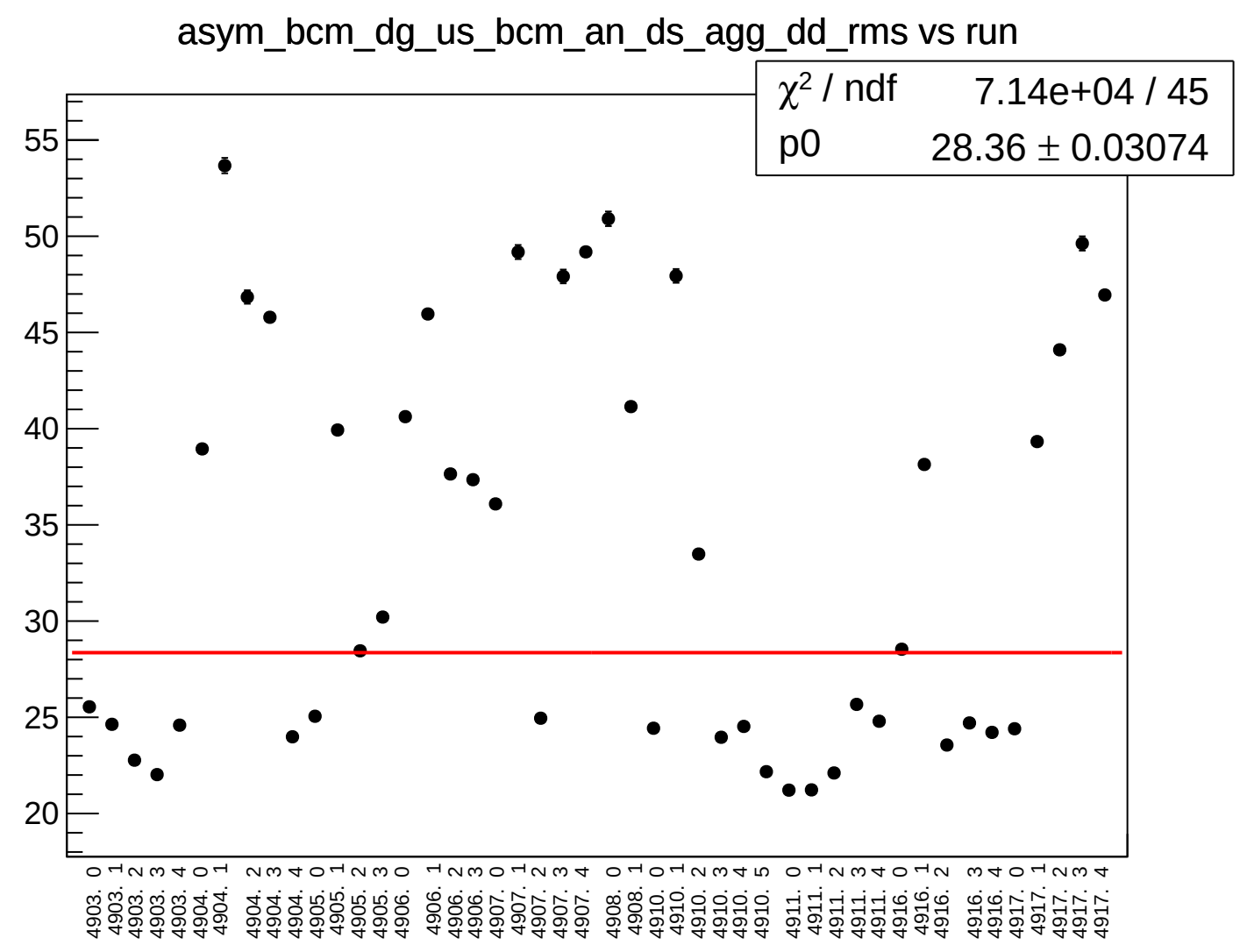

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.426 / 45
p0 −139.7 ± 246.4
pull
Entries 46
Mean −65.43
Std Dev 85.42

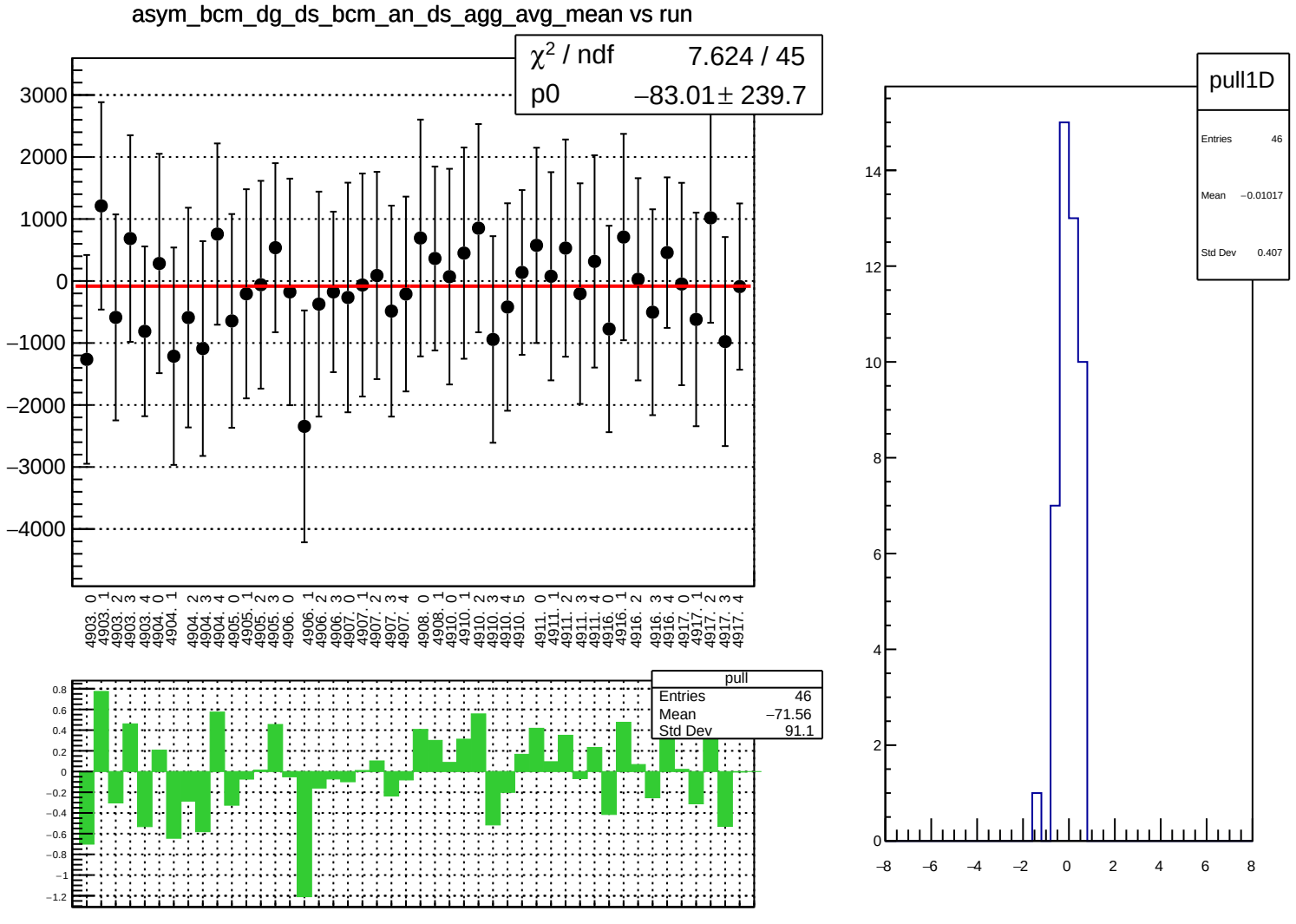

pull1D
Entries 46
Mean −0.007878
Std Dev 0.4526

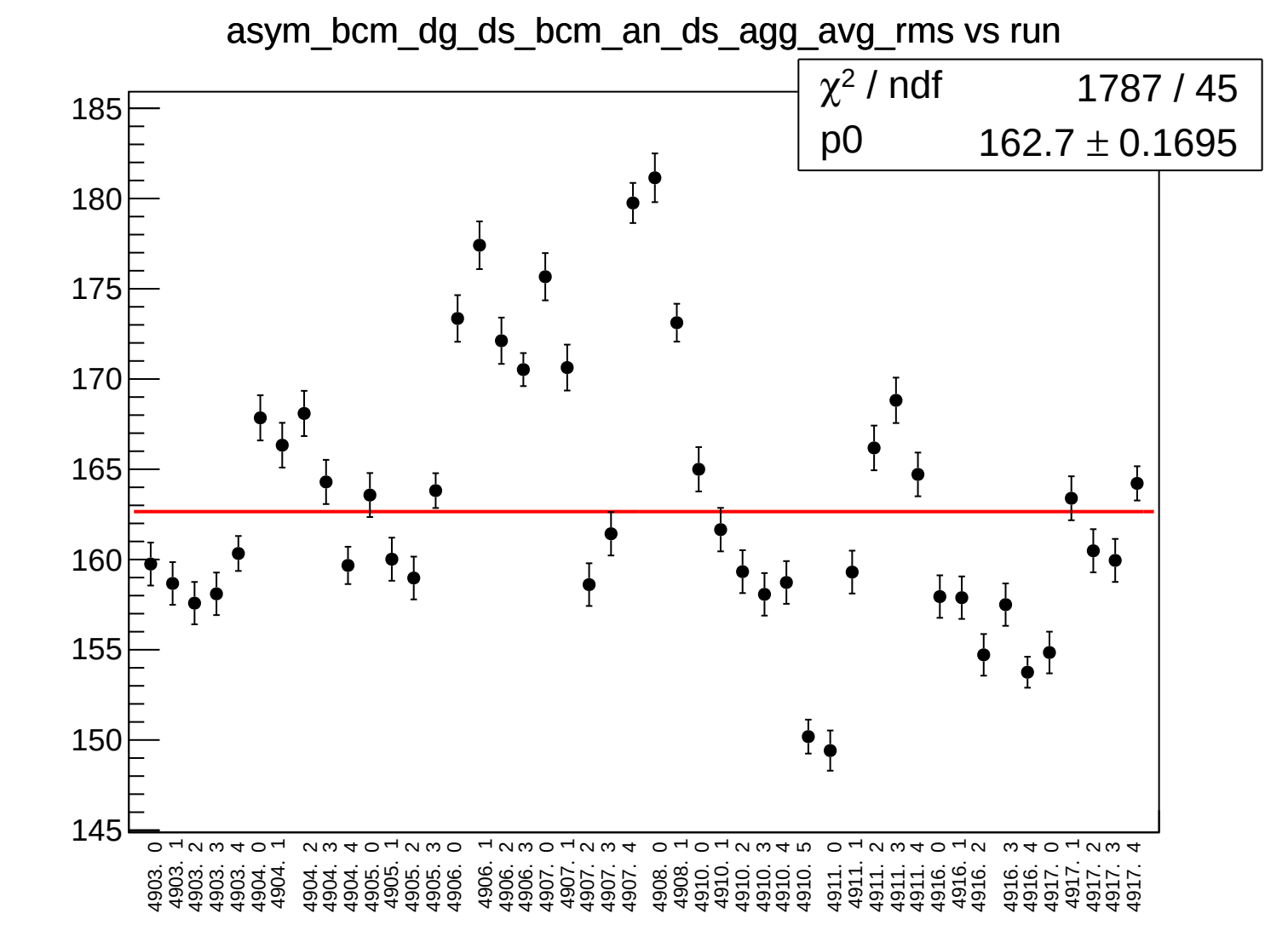

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1731 / 45
p0 167.2 ± 0.1742
190
185
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.89 / 45
p0 −61.32 ± 43.48
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −21.84
Std Dev 40.68
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.06927
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7.14e+04 / 45
p0 28.36 ± 0.03074
55
50
45
40
35
30
25
20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.624 / 45
p0 −83.01 ± 239.7
pull
Entries 46
Mean −71.56
Std Dev 91.1
pull1D
Entries 46
Mean −0.01017
Std Dev 0.407


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1787 / 45
p0 162.7 ± 0.1695
185
180
175
170
165
160
155
150
145
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
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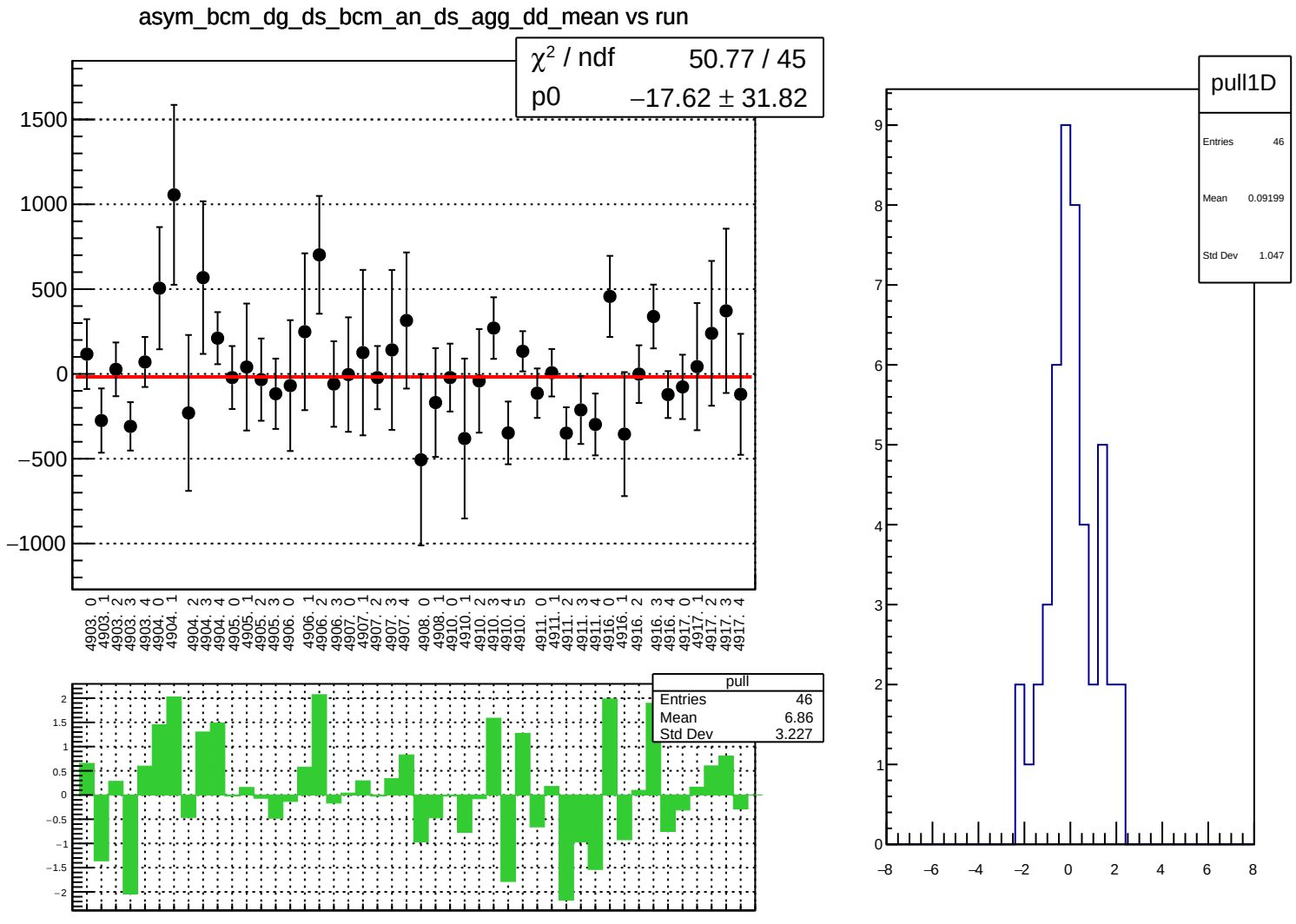
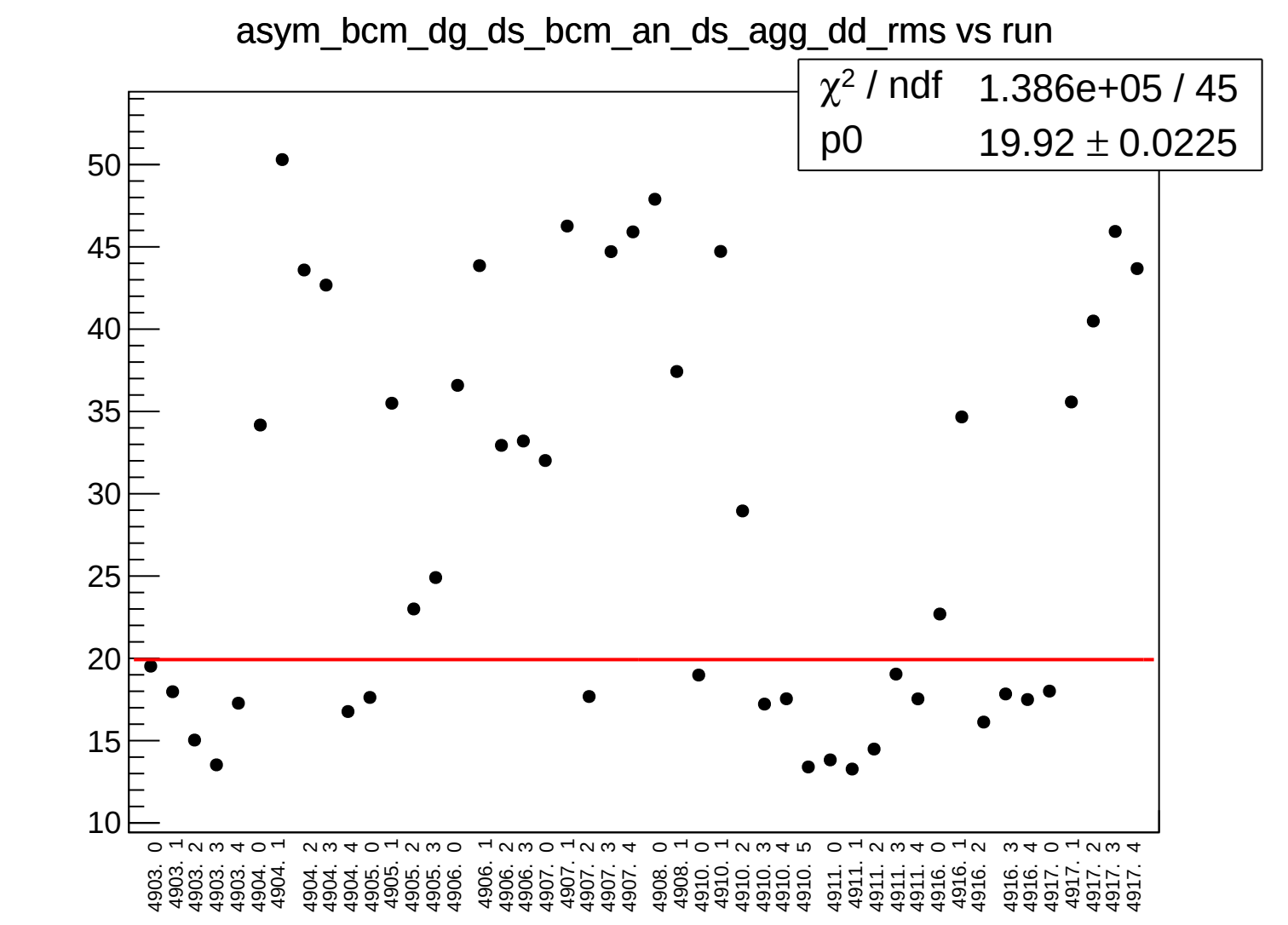
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.77 / 45
p0 −17.62 ± 31.82
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 6.86
Std Dev 3.227
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.09199
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.386e+05 / 45
p0 19.92 ± 0.0225
50
45
40
35
30
25
20
15
10
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
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4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
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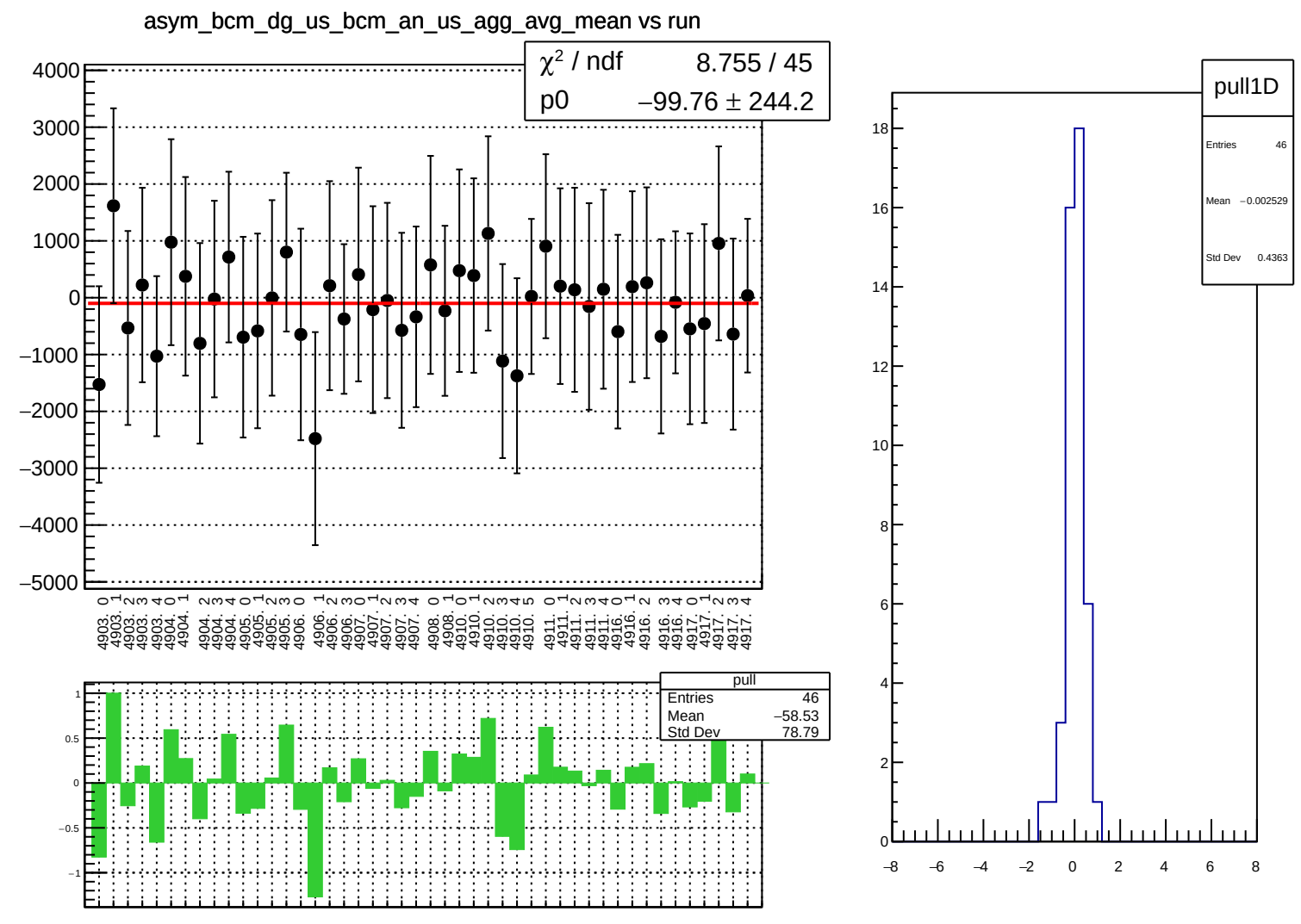
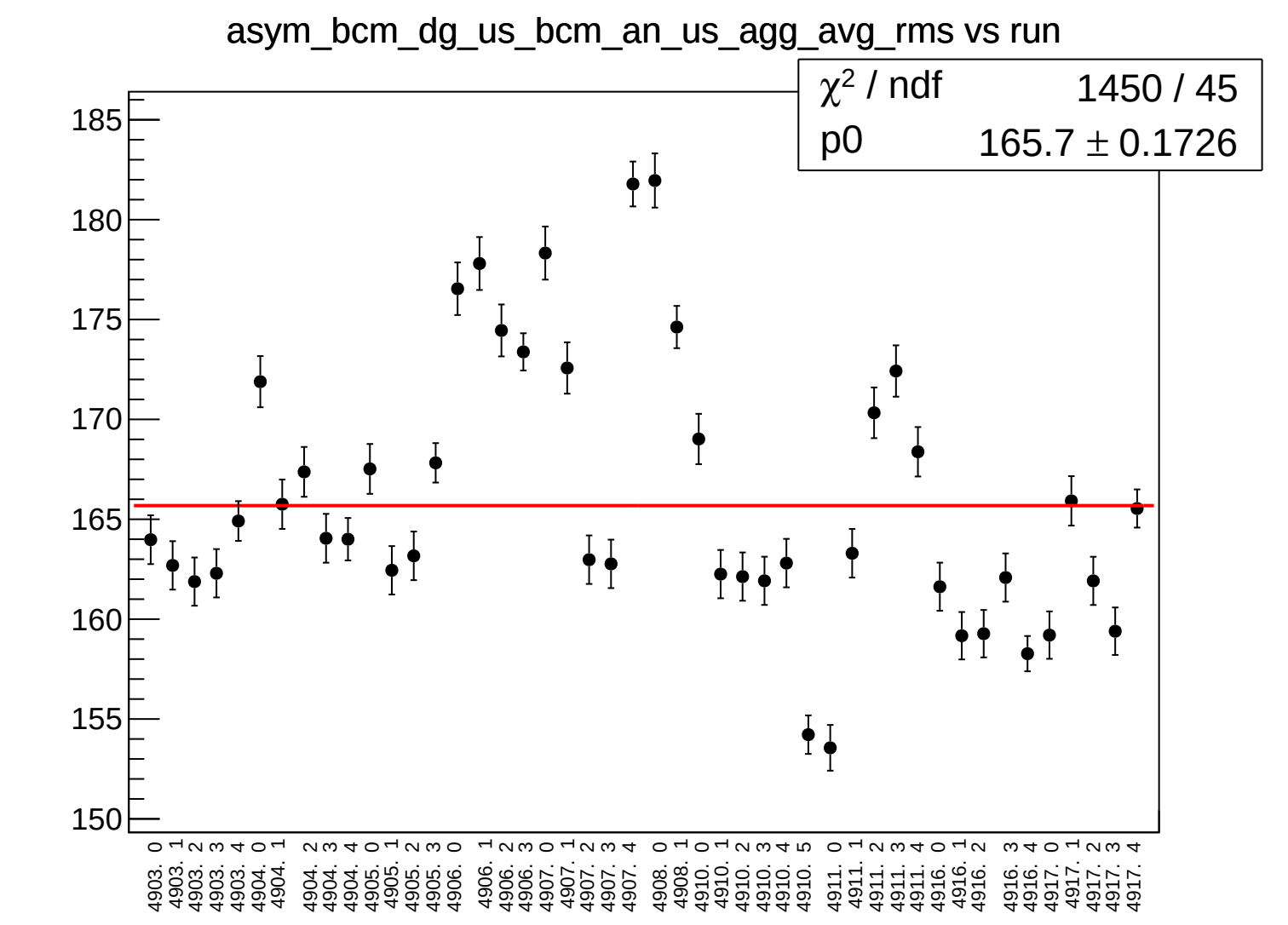
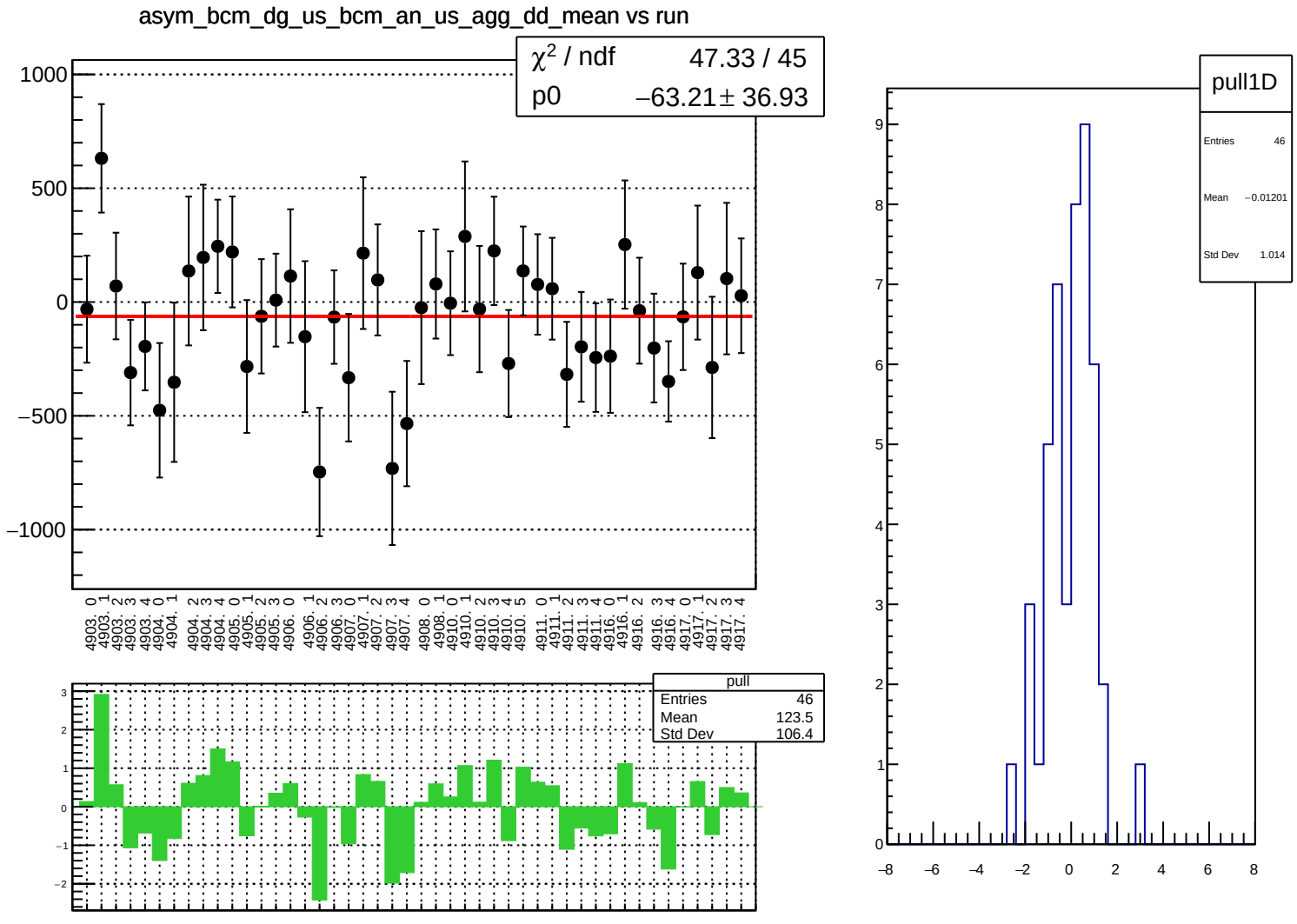
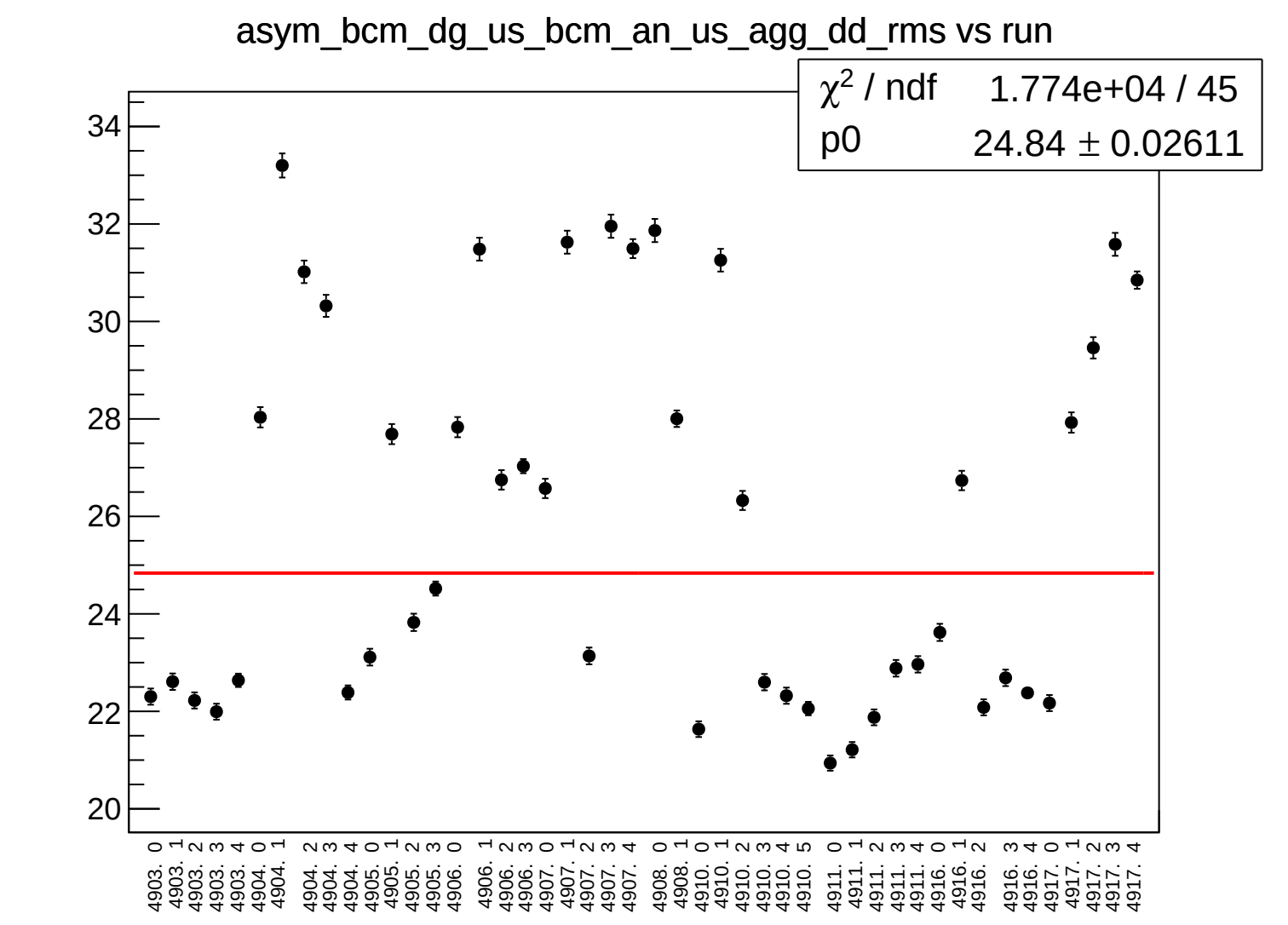
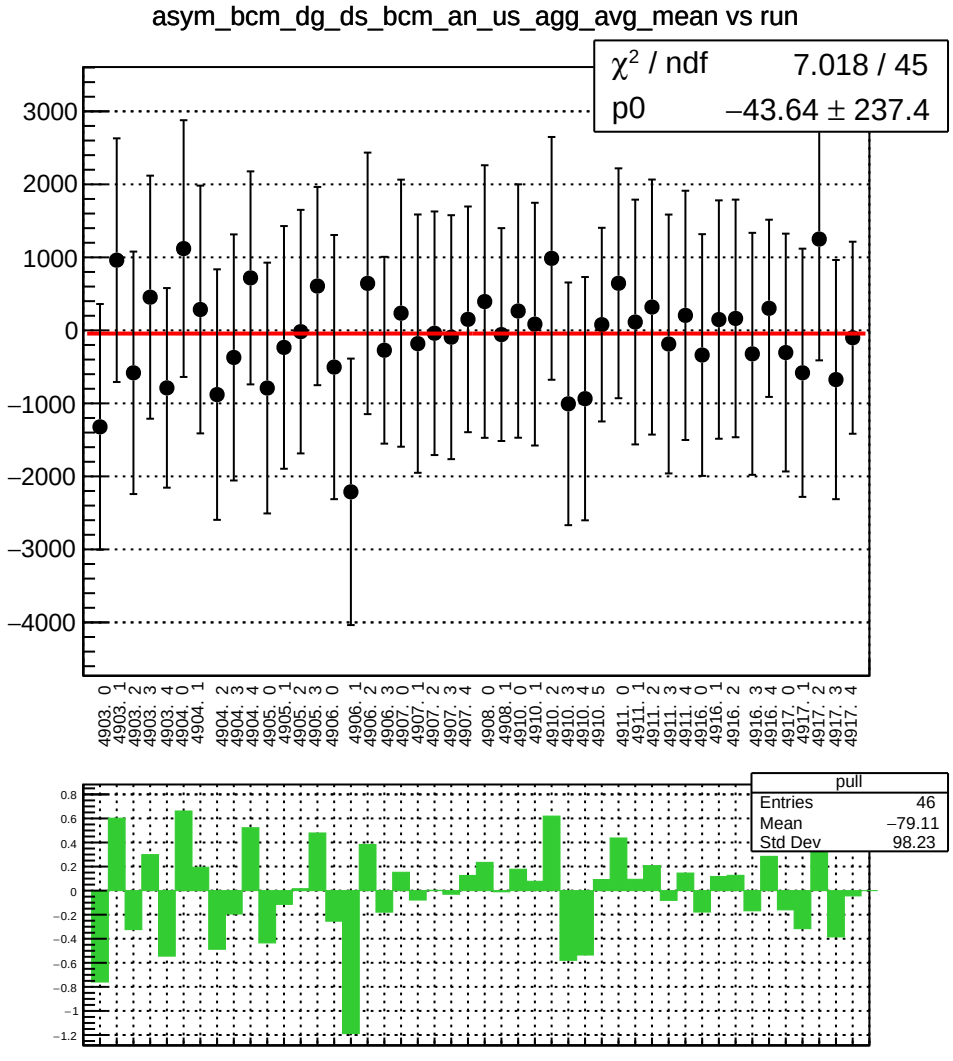
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

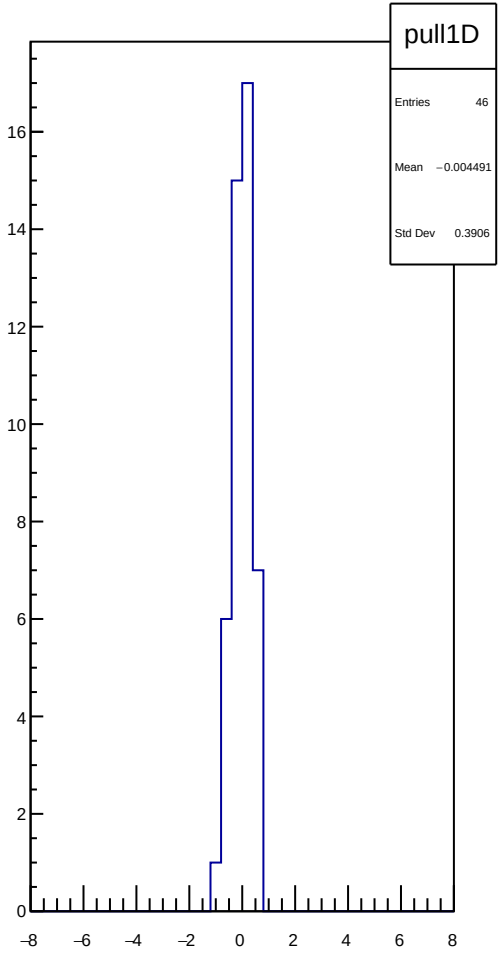

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.755 / 45
p0 −99.76 ± 244.2
pull
Entries 46
Mean −58.53
Std Dev 78.79
pull1D
Entries 46
Mean −0.002529
Std Dev 0.4363

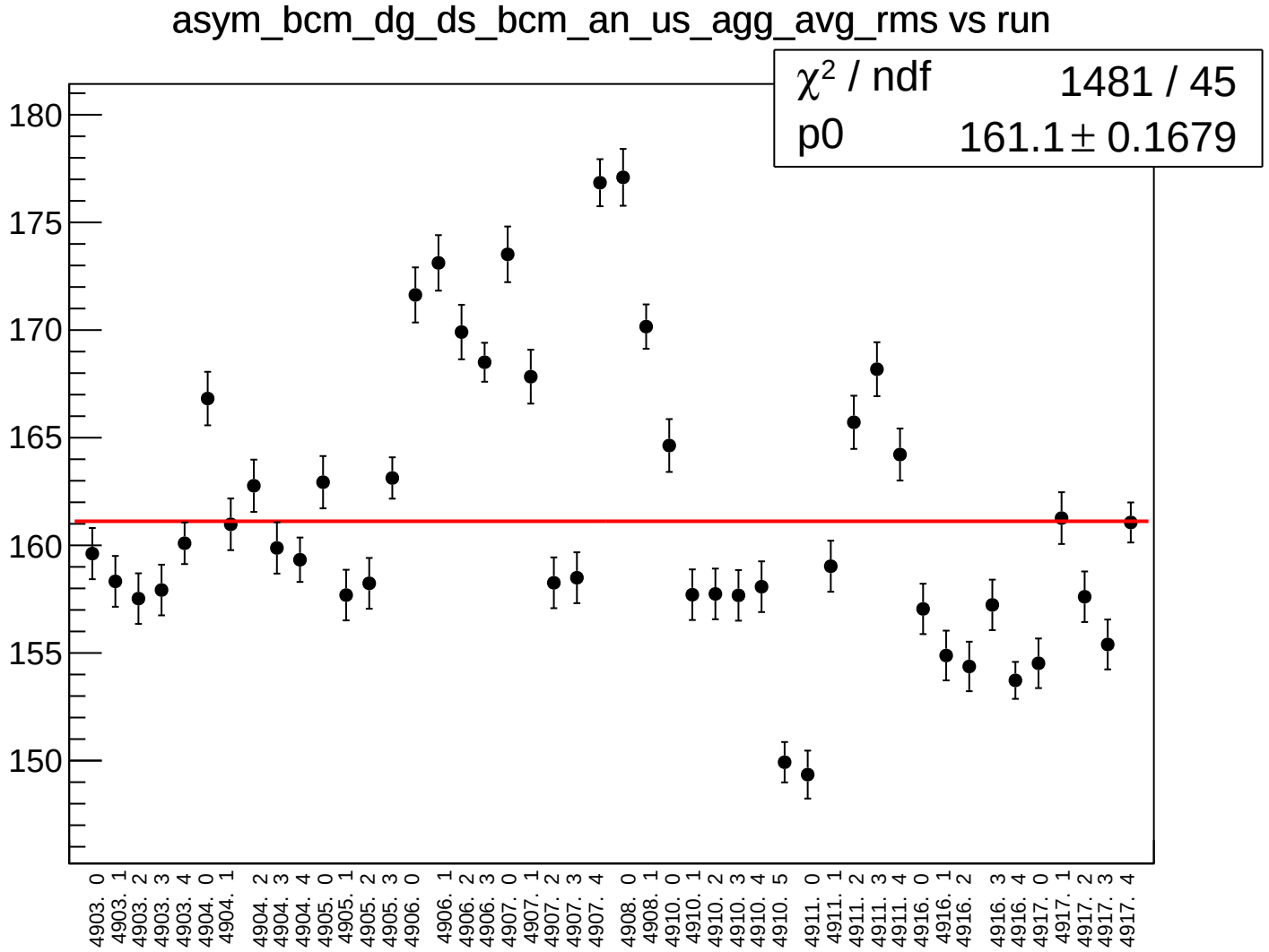

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1450 / 45
p0 165.7 ± 0.1726
185
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

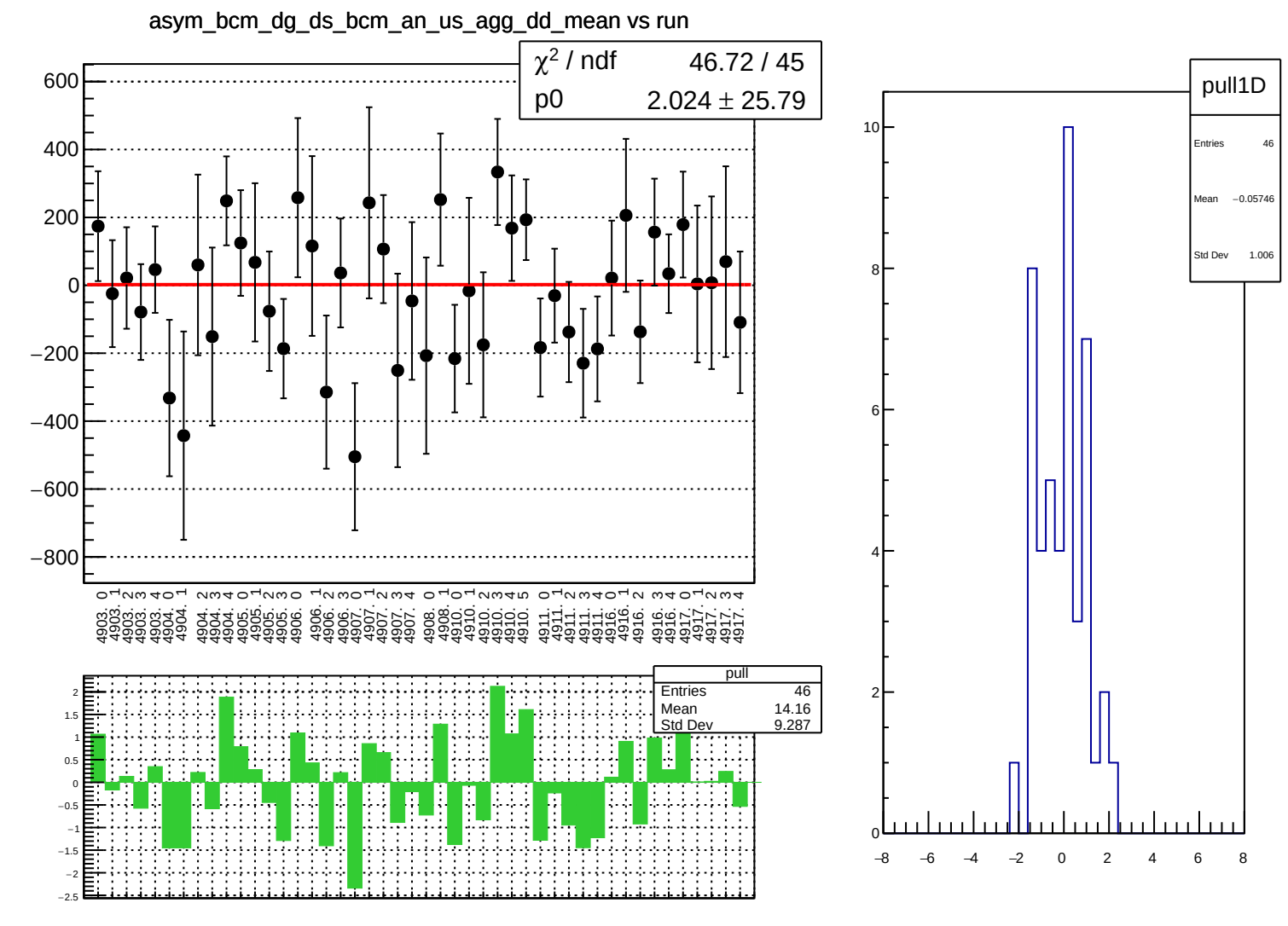

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 47.33 / 45
p0 −63.21± 36.93
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 123.5
Std Dev 106.4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01201
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

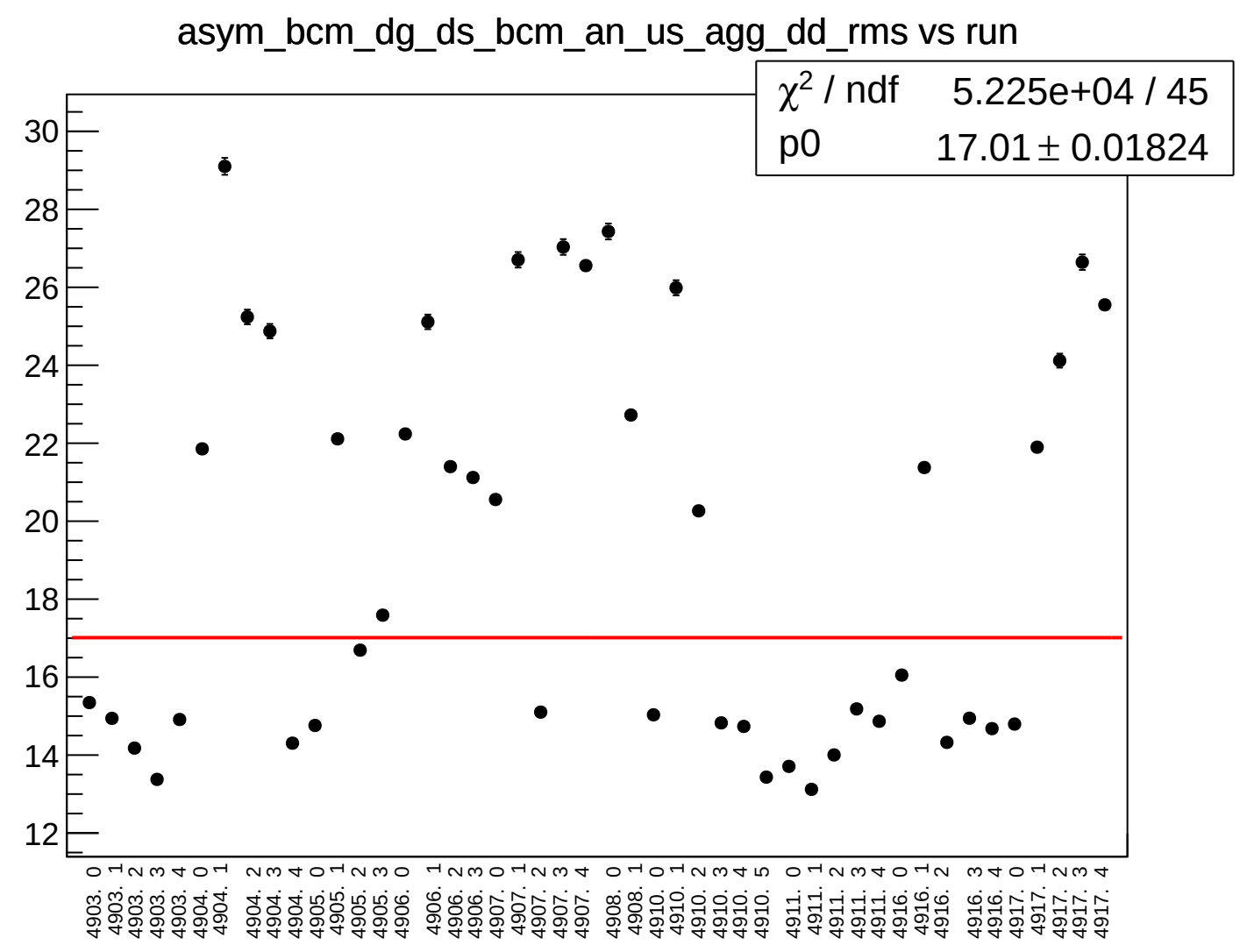

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.774e+04 / 45
p0 24.84 ± 0.02611
34
32
30
28
26
24
22
20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

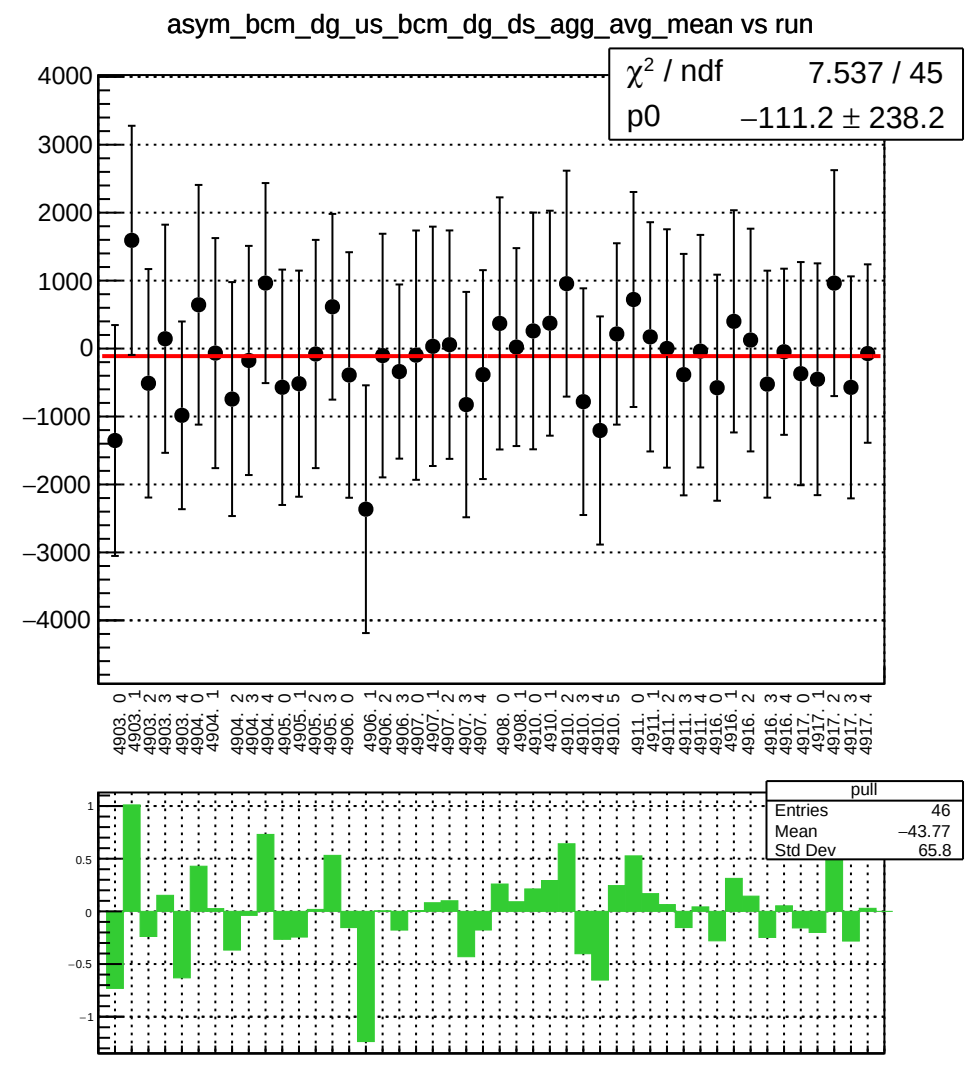

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.018 / 45
p0 −43.64 ± 237.4
pull
Entries 46
Mean −79.11
Std Dev 98.23

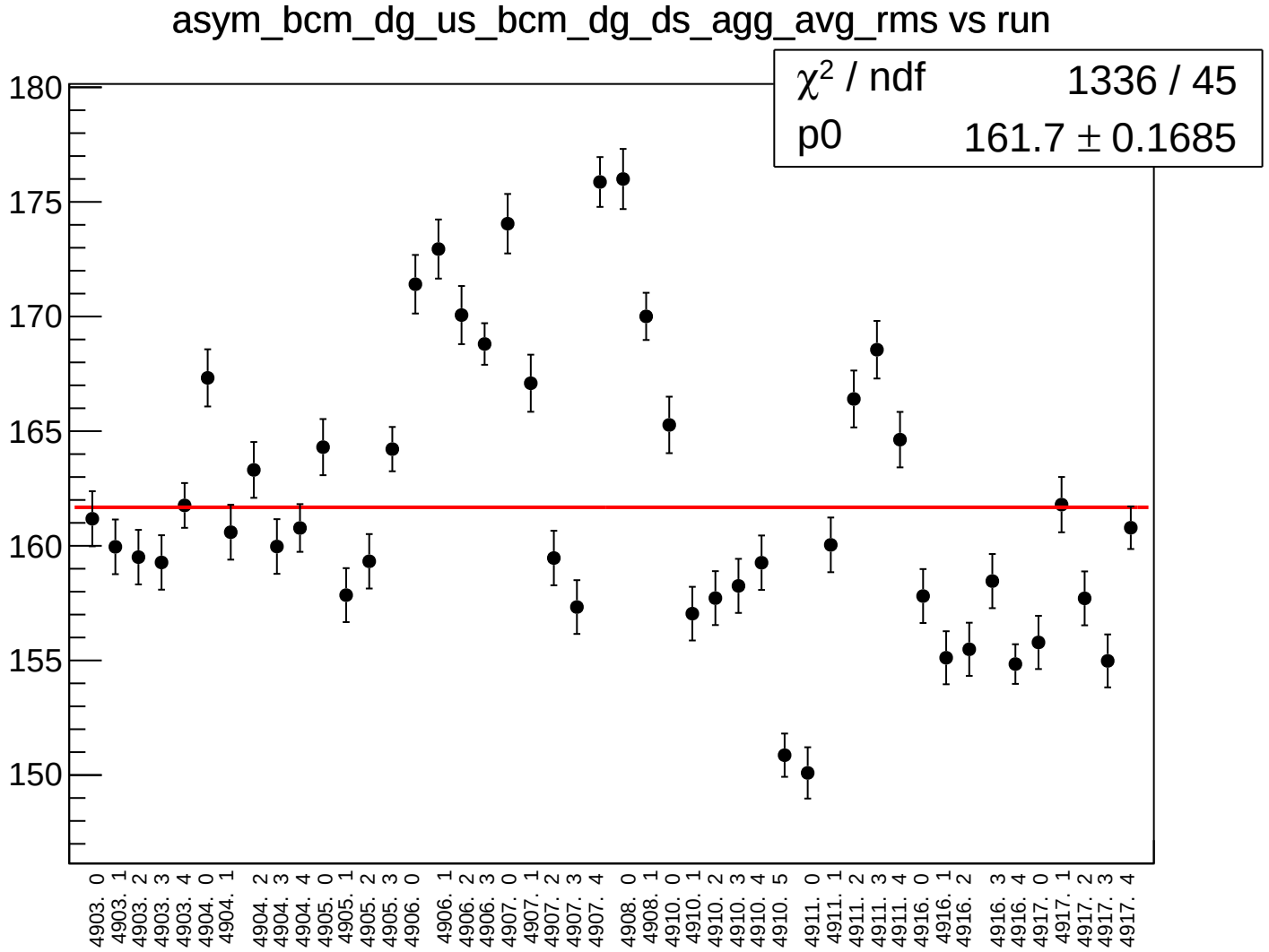

pull1D
Entries 46
Mean −0.004491
Std Dev 0.3906

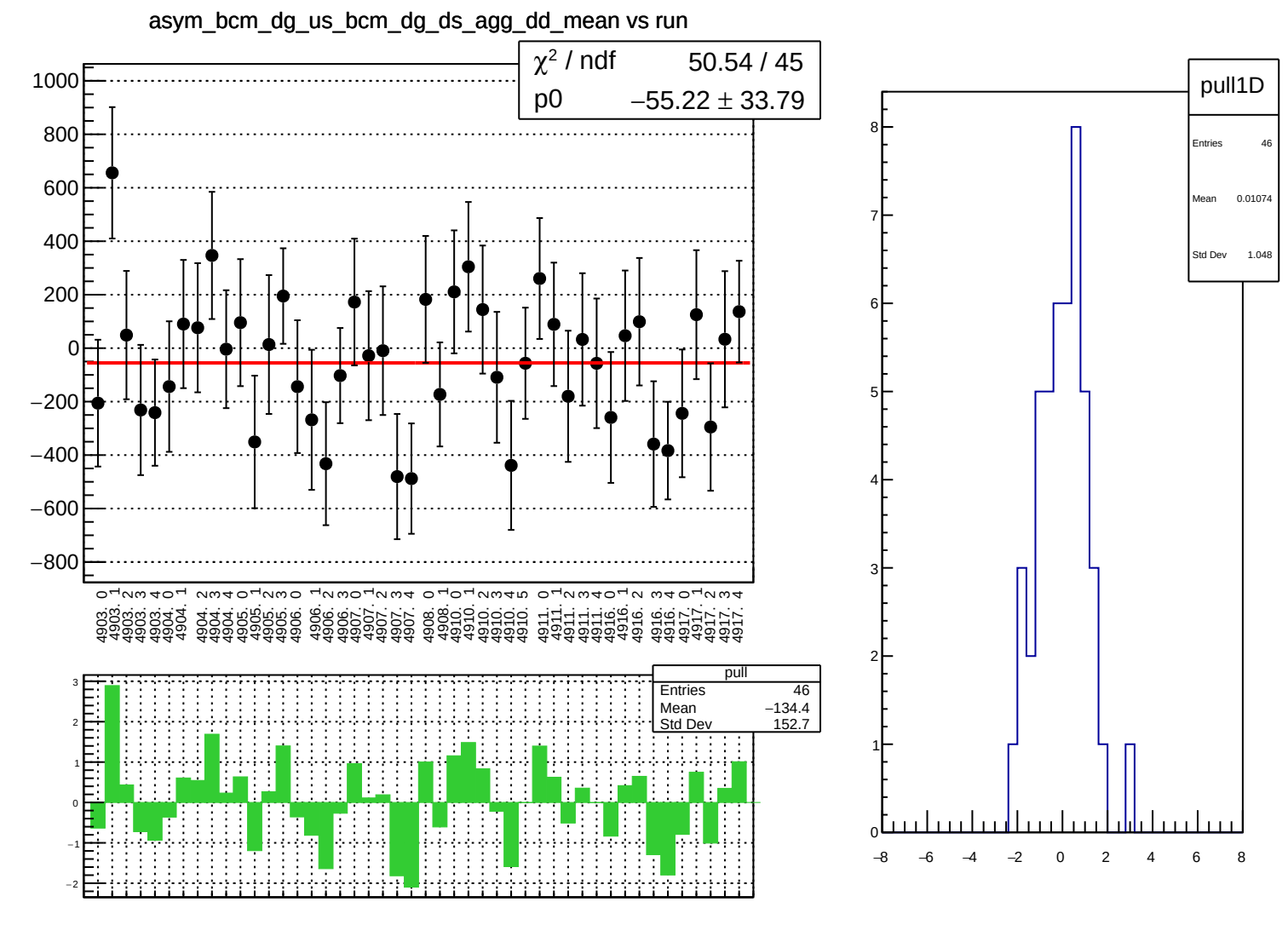

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1481 / 45
p0 161.1 ± 0.1679
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

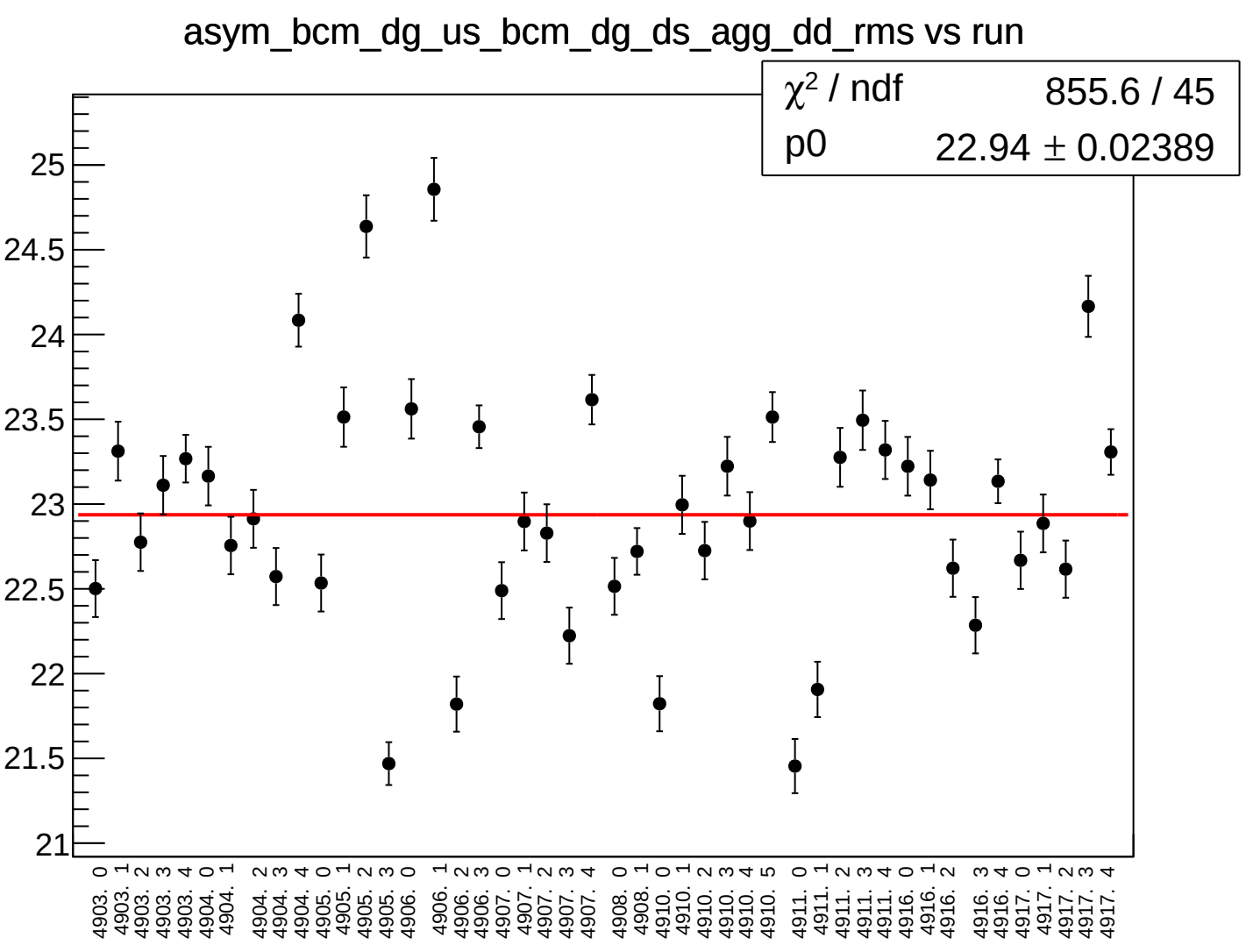

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.72 / 45
p0 2.024 ± 25.79
pull
Entries 46
Mean 14.16
Std Dev 9.287
pull1D
Entries 46
Mean −0.05746
Std Dev 1.006

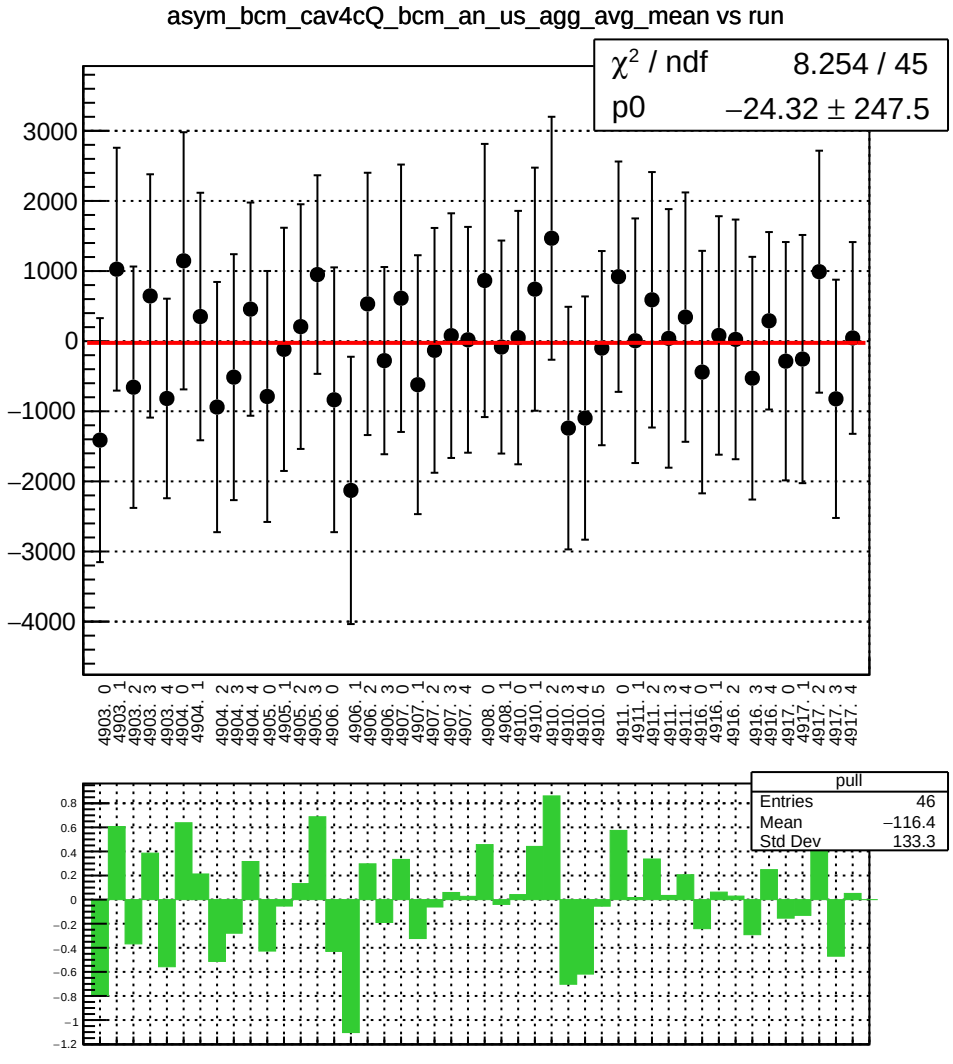

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 5.225e+04 / 45
p0 17.01 ± 0.01824
30
28
26
24
22
20
18
16
14
12
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

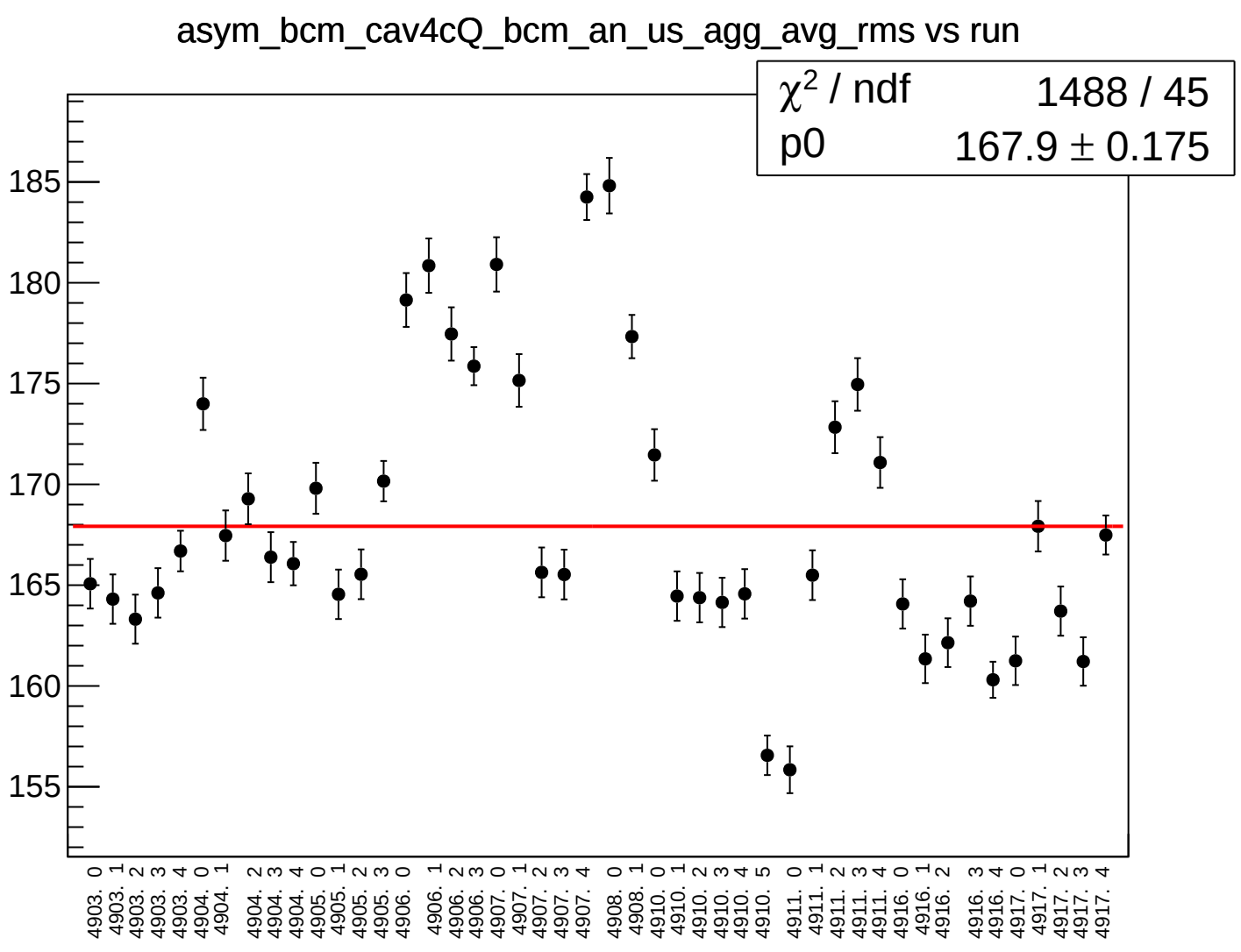

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.537 / 45
p0 −111.2 ± 238.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −43.77
Std Dev 65.8
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.005147
Std Dev 0.4047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

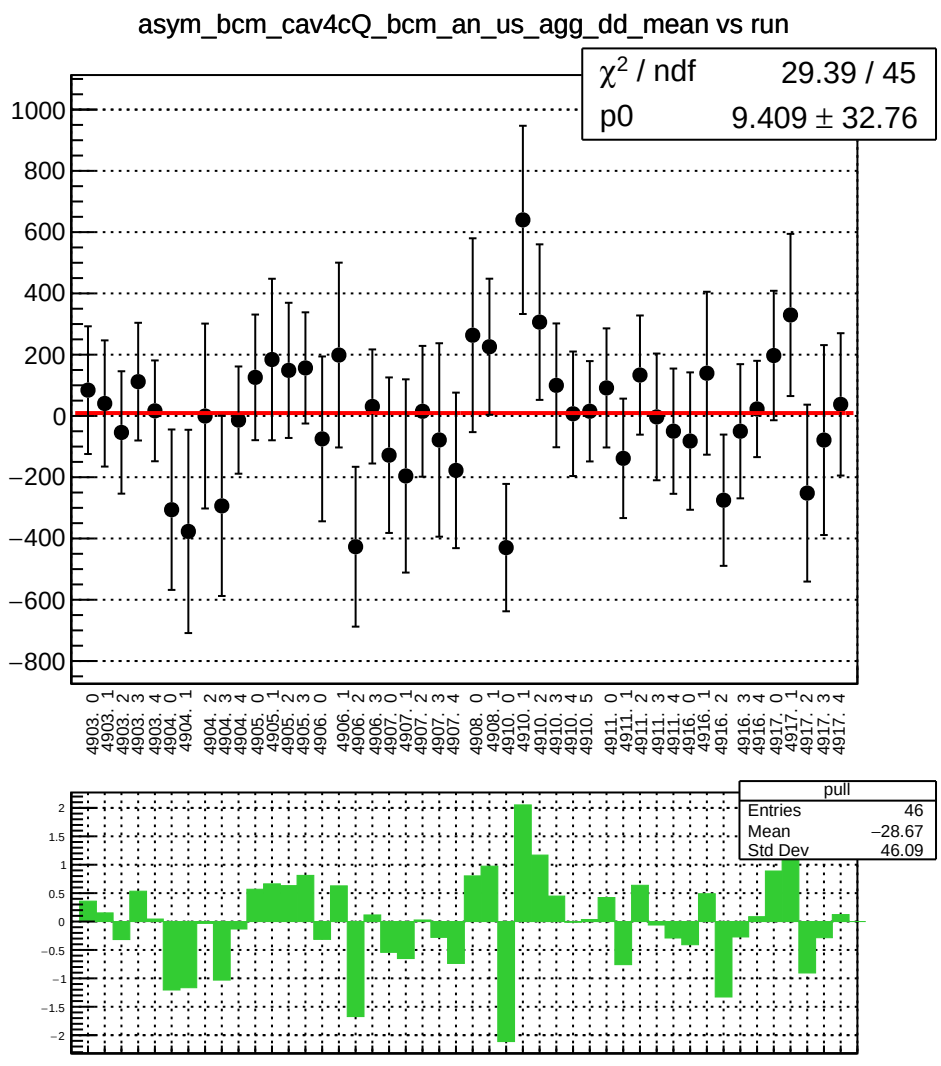

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1336 / 45
p0 161.7 ± 0.1685
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

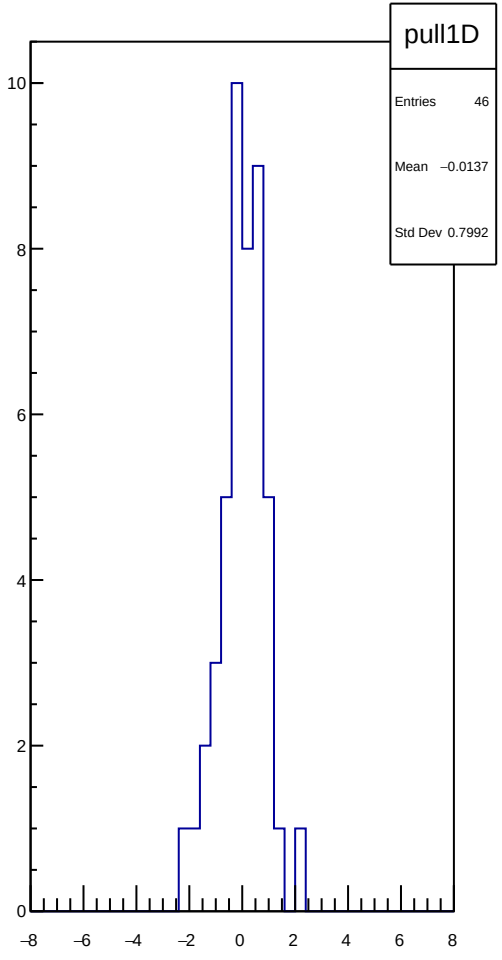

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 50.54 / 45
p0 −55.22 ± 33.79
1000
800
600
400
200
0
−200
−400
−600
−800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −134.4
Std Dev 152.7
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01074
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

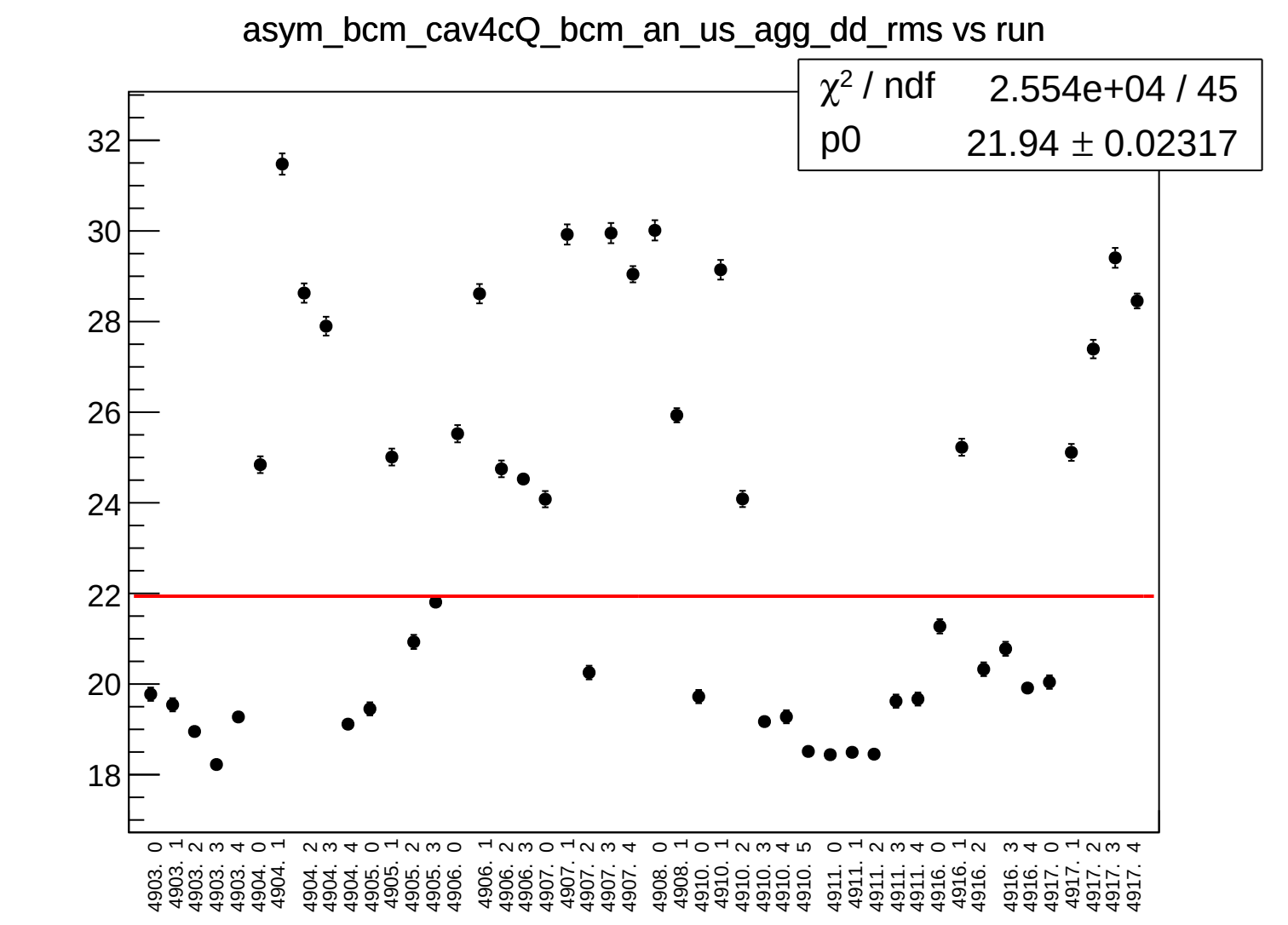

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 855.6 / 45
p0 22.94 ± 0.02389
25
24.5
24
23.5
23
22.5
22
21.5
21
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

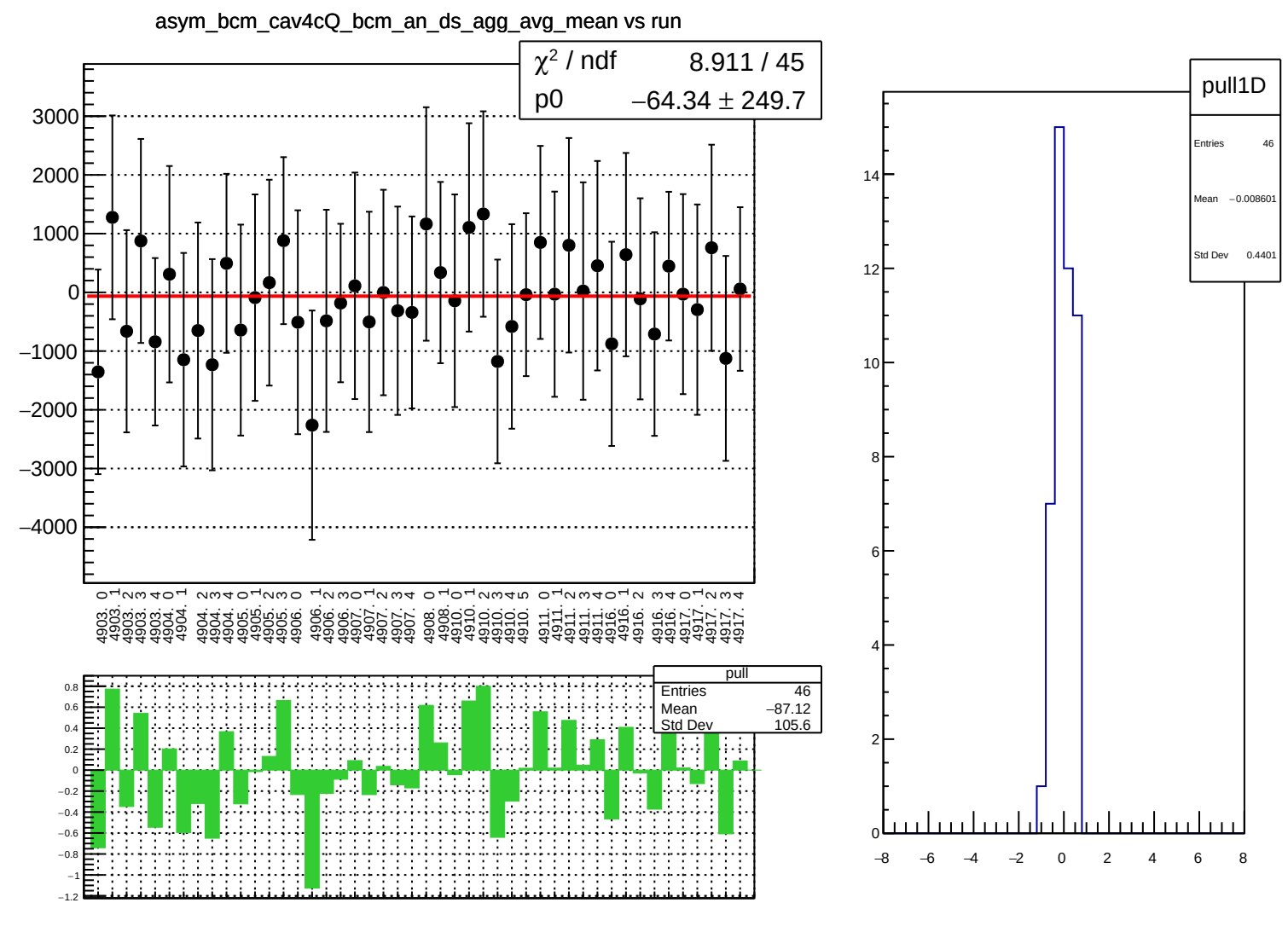

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.254 / 45
p0 −24.32 ± 247.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −116.4
Std Dev 133.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 46
Mean −0.003329
Std Dev 0.4236
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

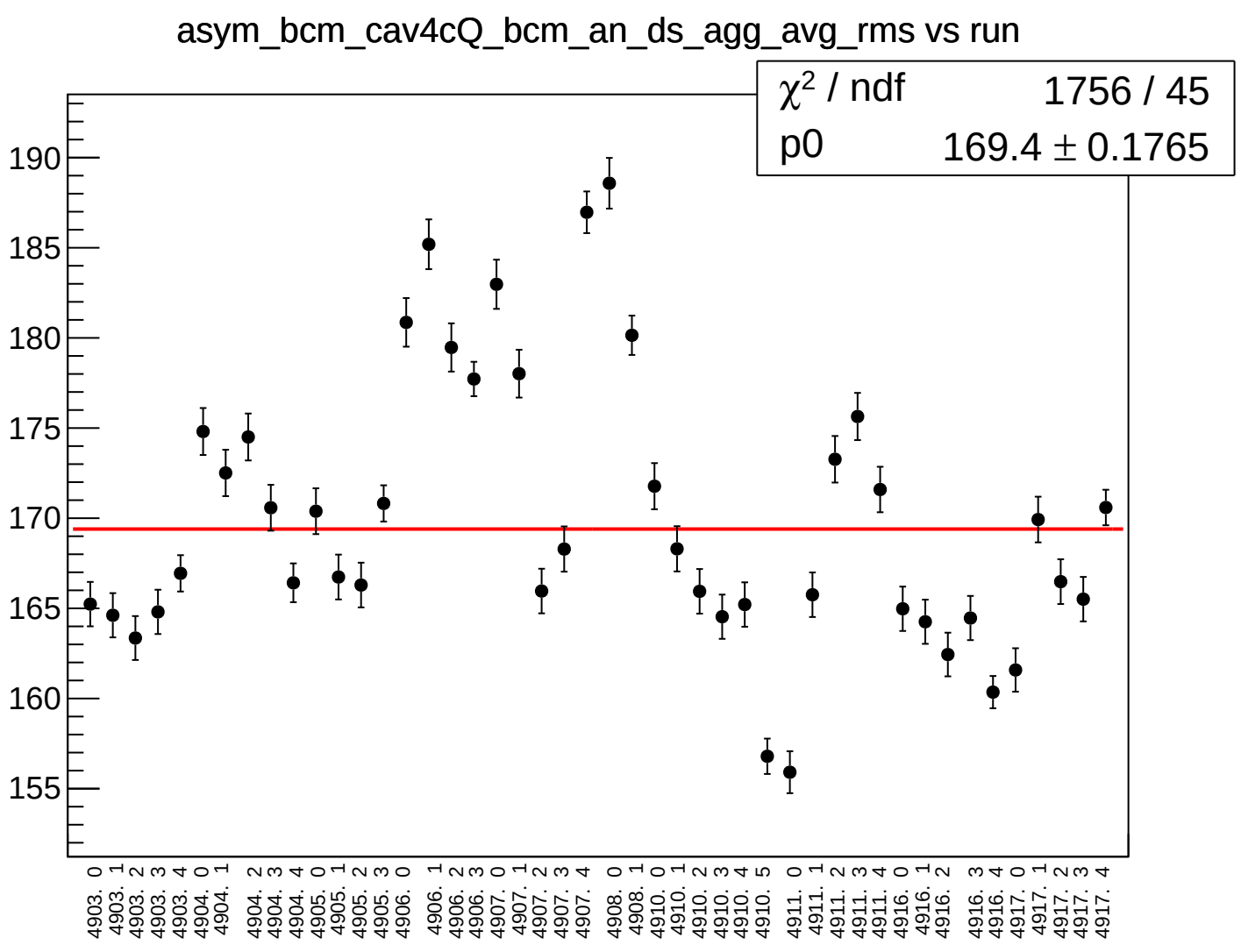

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1488 / 45
p0 167.9 ± 0.175
185
180
175
170
165
160
155
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

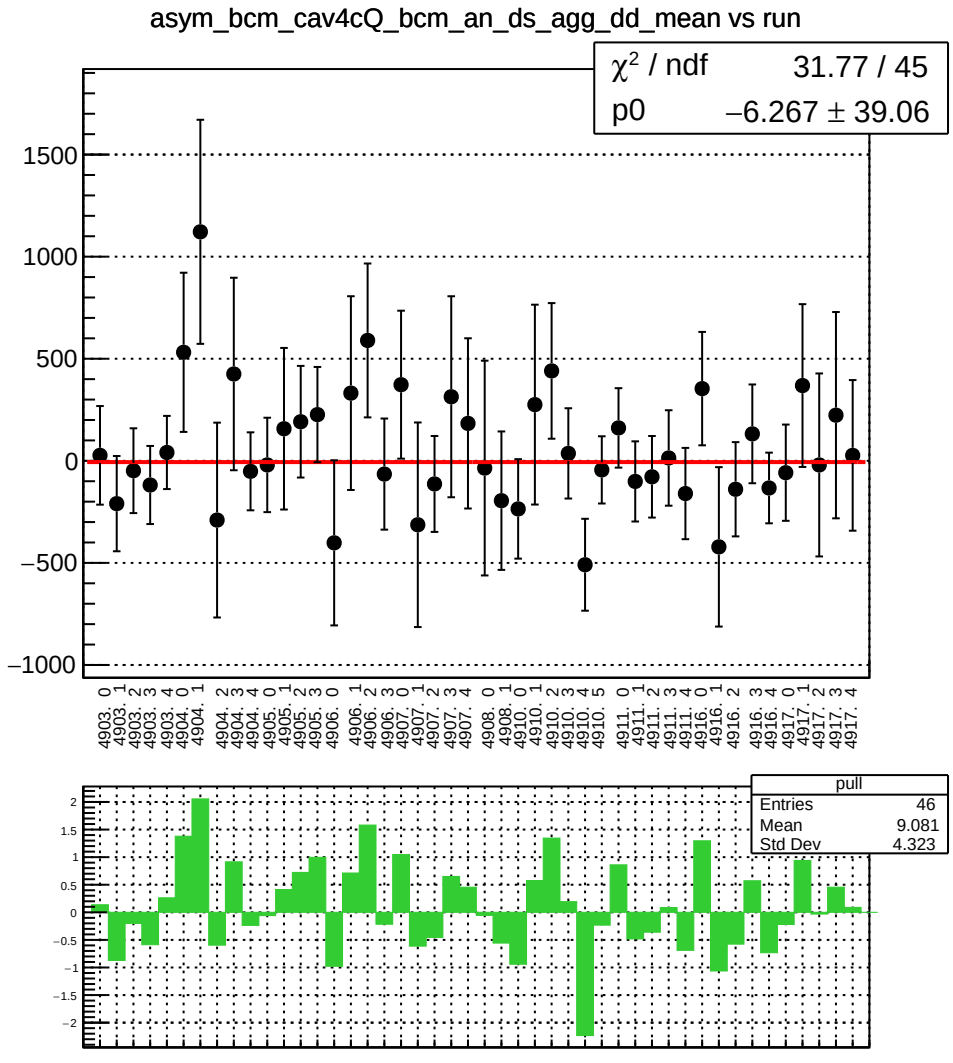

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 29.39 / 45
p0 9.409 ± 32.76
pull
Entries 46
Mean −28.67
Std Dev 46.09

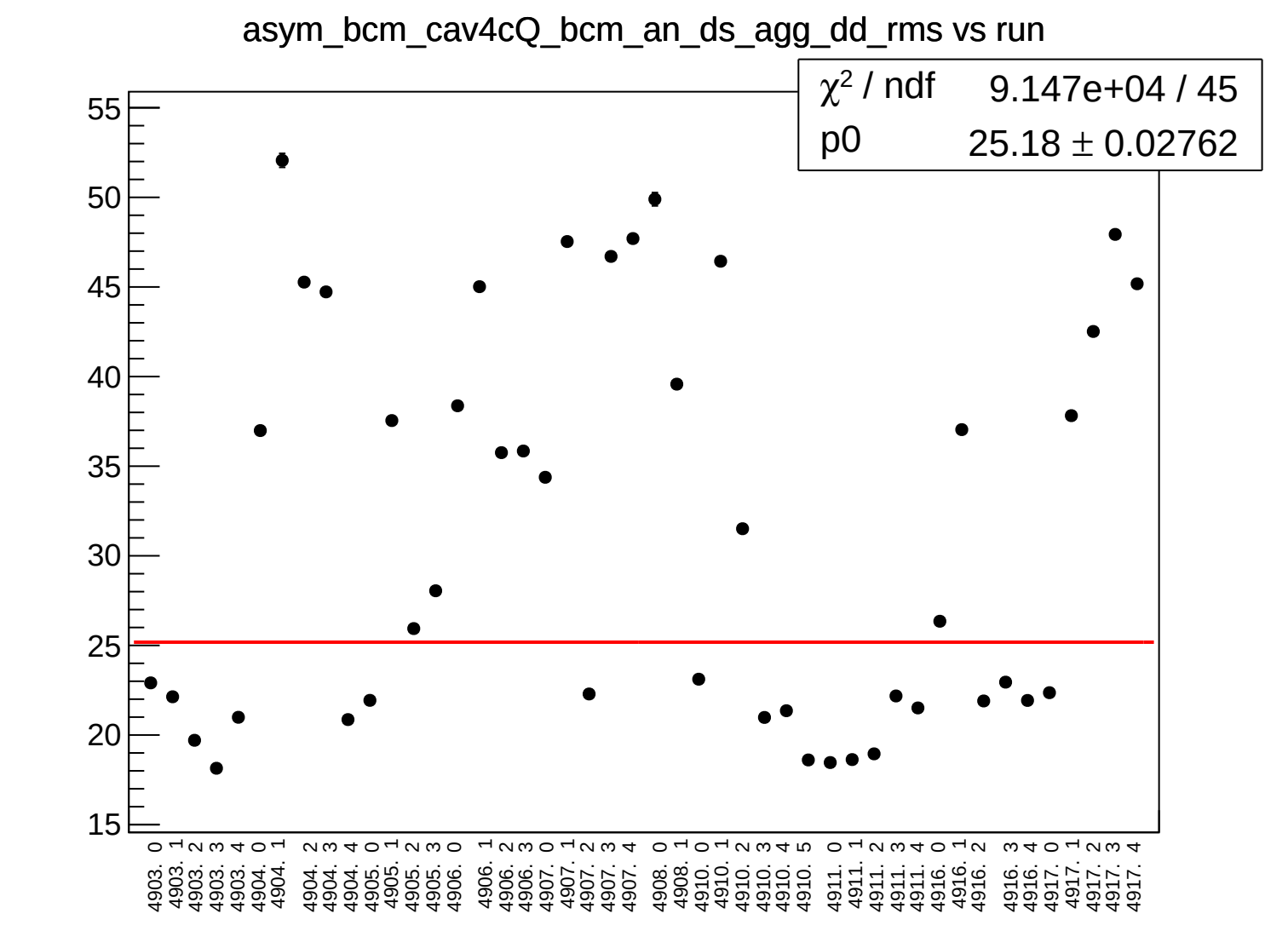

pull1D
Entries 46
Mean −0.0137
Std Dev 0.7992

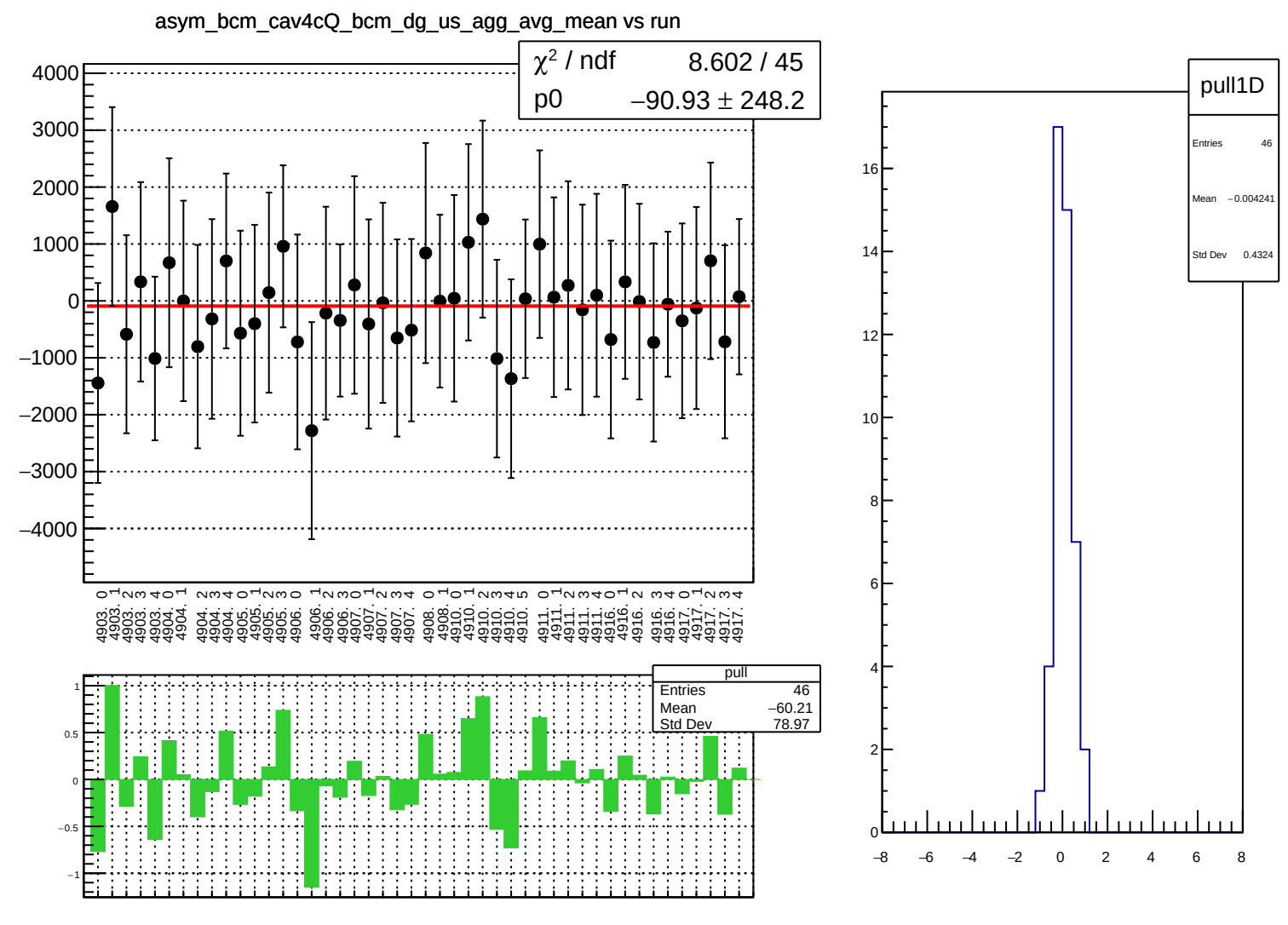

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.554e+04 / 45
p0 21.94 ± 0.02317
32
30
28
26
24
22
20
18
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

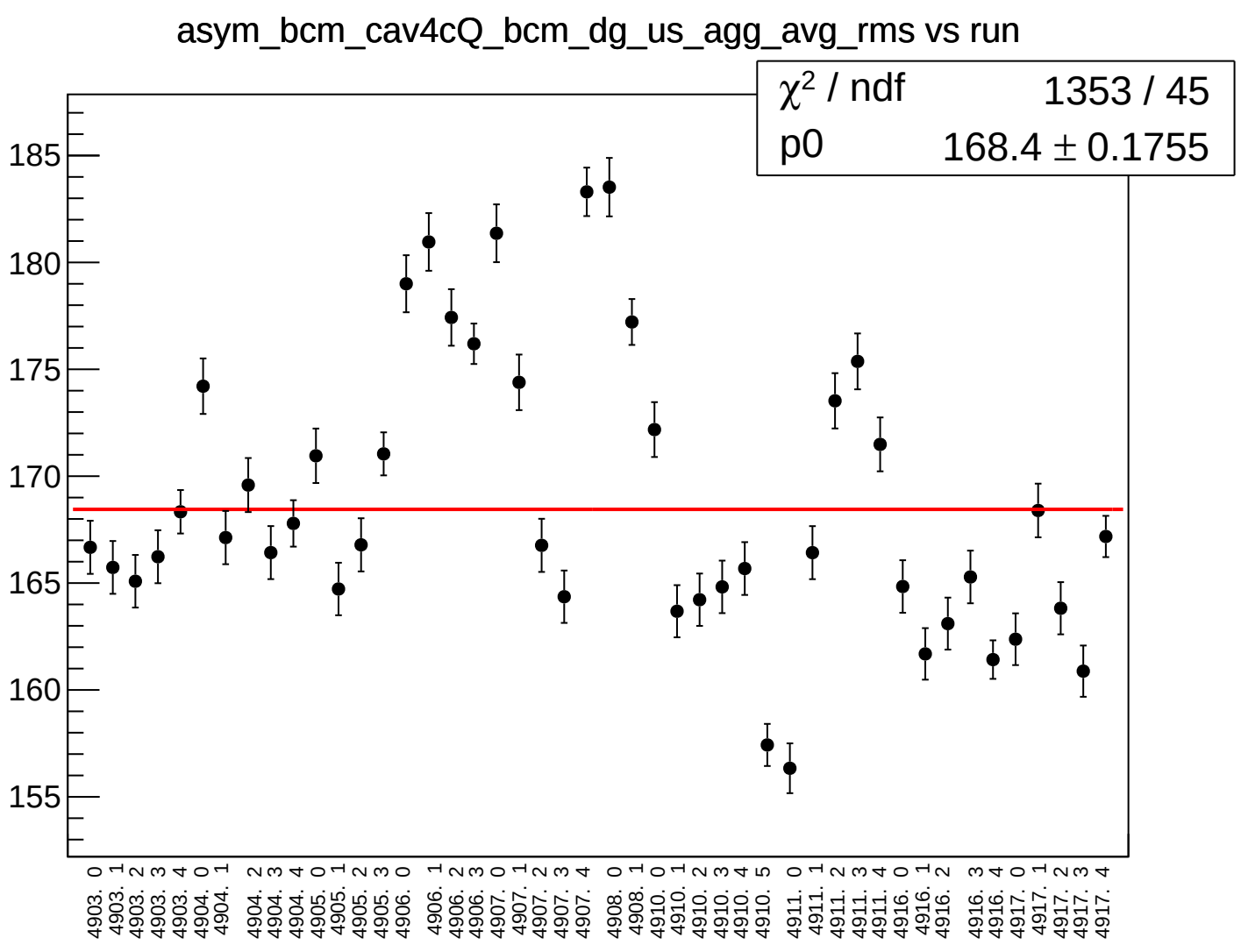

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.911 / 45
p0 −64.34 ± 249.7
pull
Entries 46
Mean −87.12
Std Dev 105.6
pull1D
Entries 46
Mean −0.008601
Std Dev 0.4401

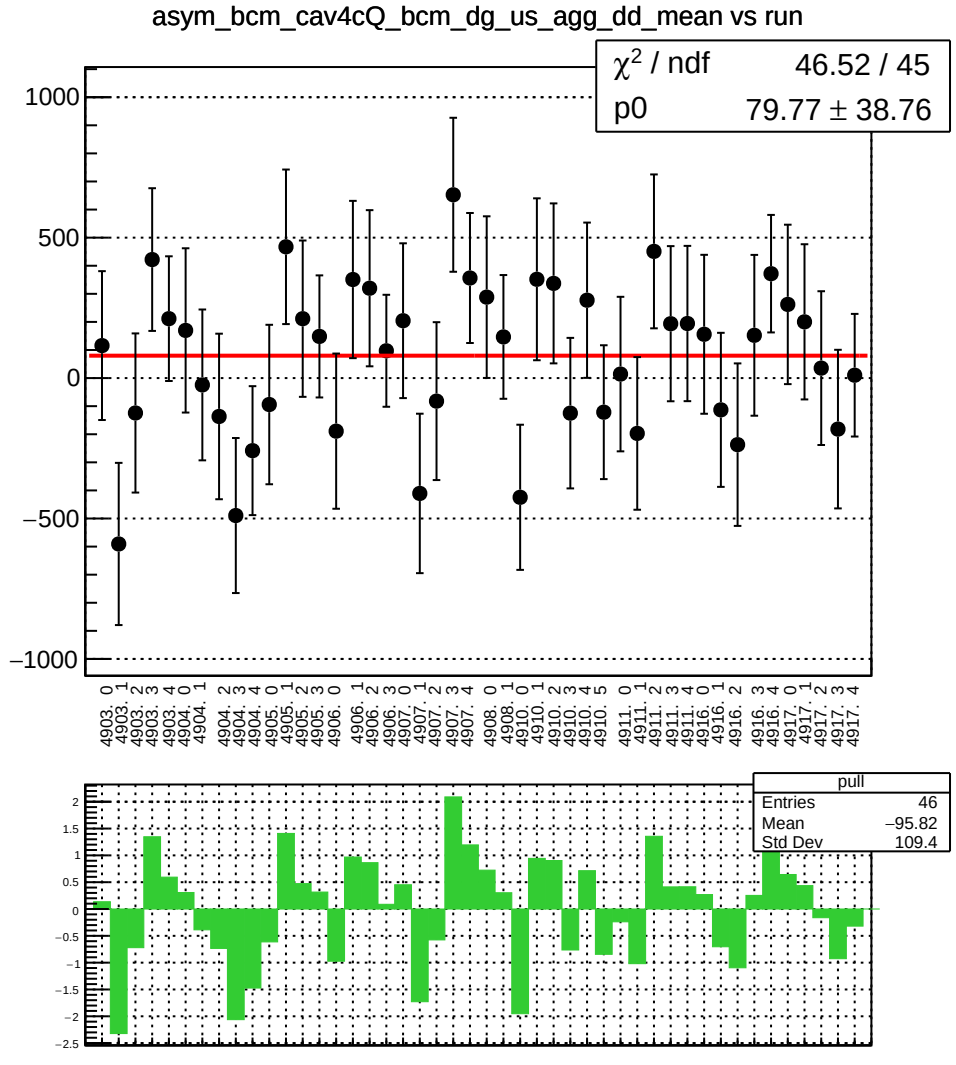

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1756 / 45
p0 169.4 ± 0.1765
190
185
180
175
170
165
160
155
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

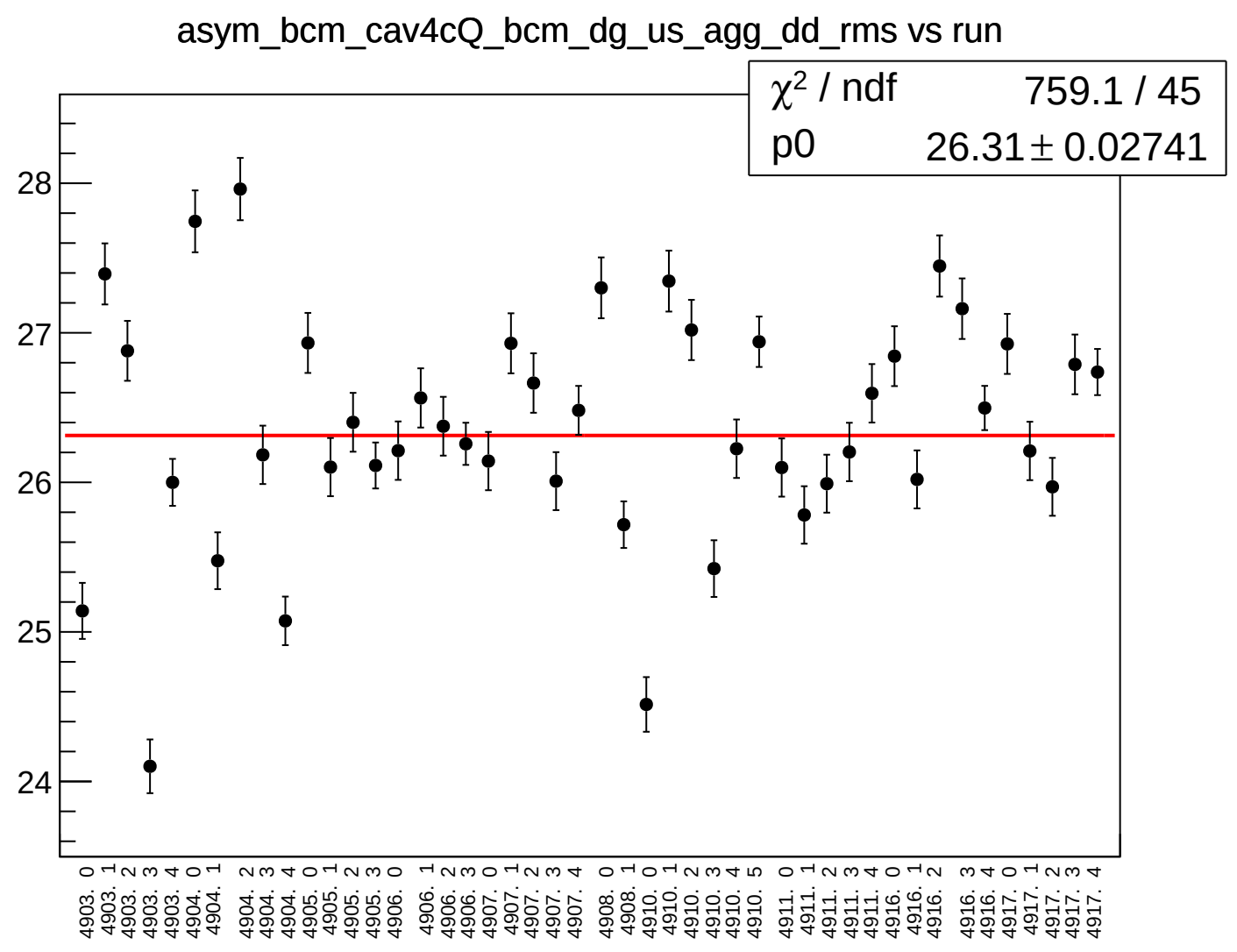

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 31.77 / 45
p0 −6.267 ± 39.06
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 9.081
Std Dev 4.323
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1033
Std Dev 0.8247
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

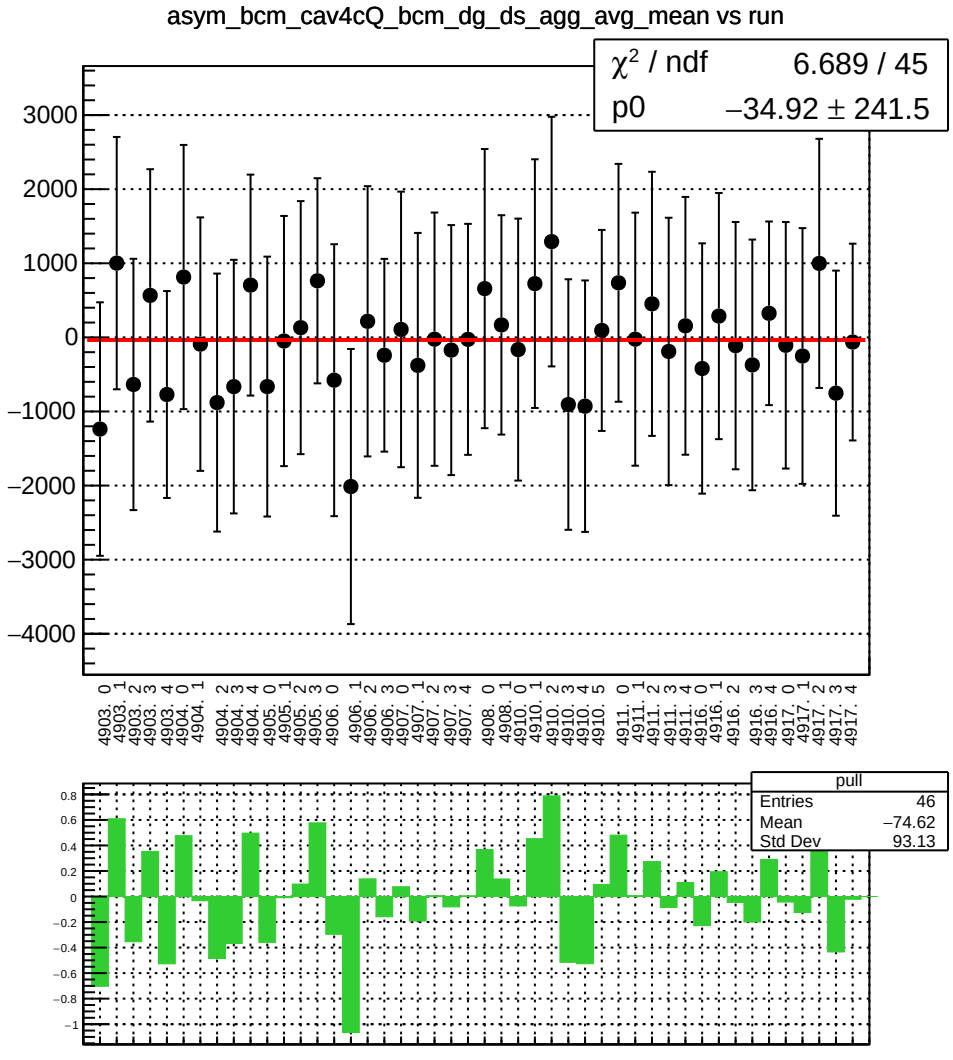

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9.147e+04 / 45
p0 25.18 ± 0.02762
55
50
45
40
35
30
25
20
15
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

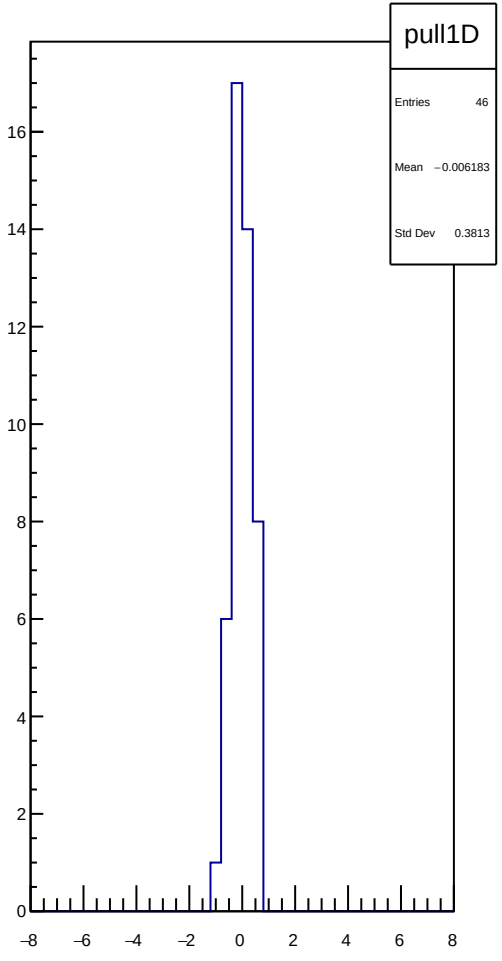

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 8.602 / 45
p0 −90.93 ± 248.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −60.21
Std Dev 78.97
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.004241
Std Dev 0.4324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

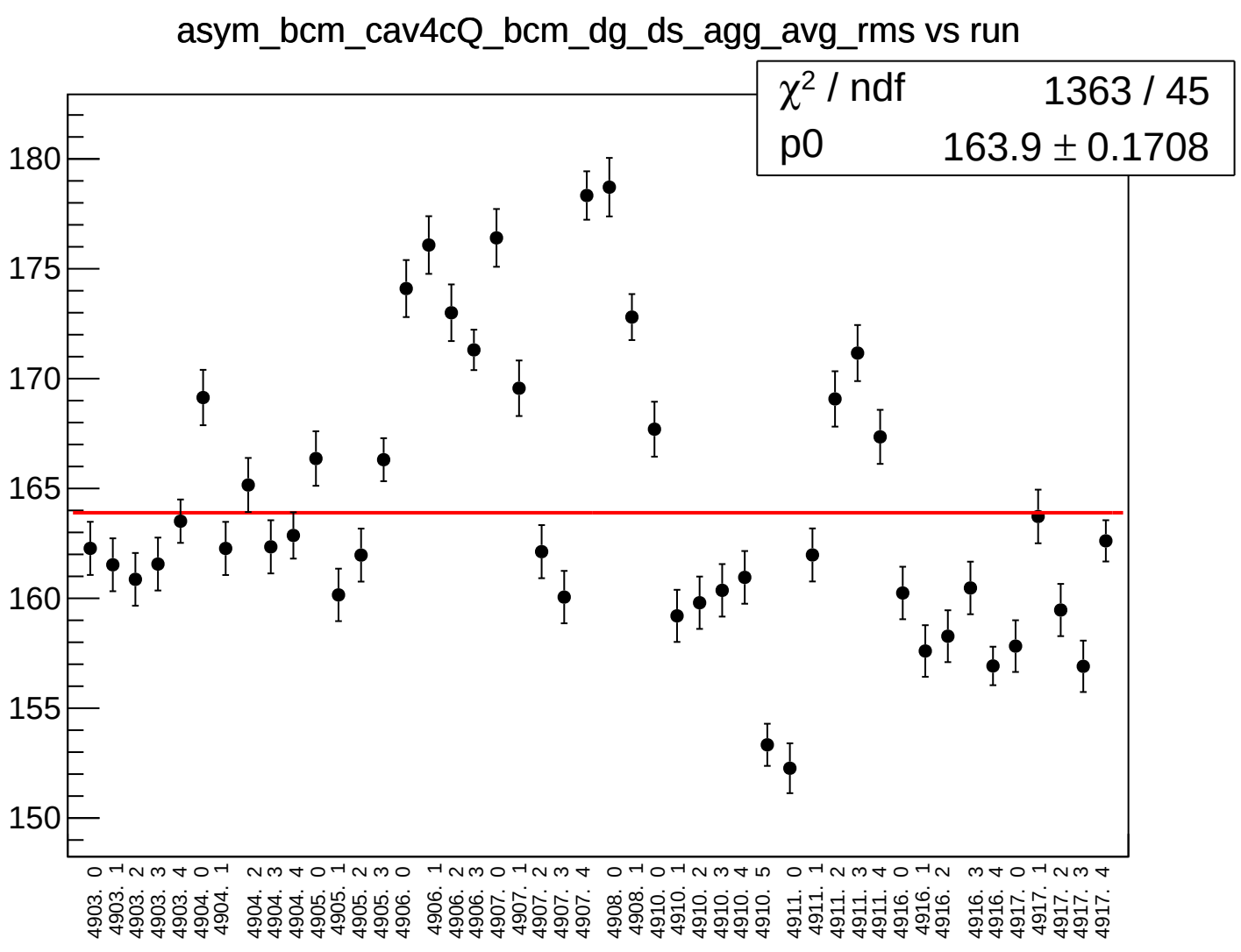

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1353 / 45
p0 168.4 ± 0.1755
185
180
175
170
165
160
155
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

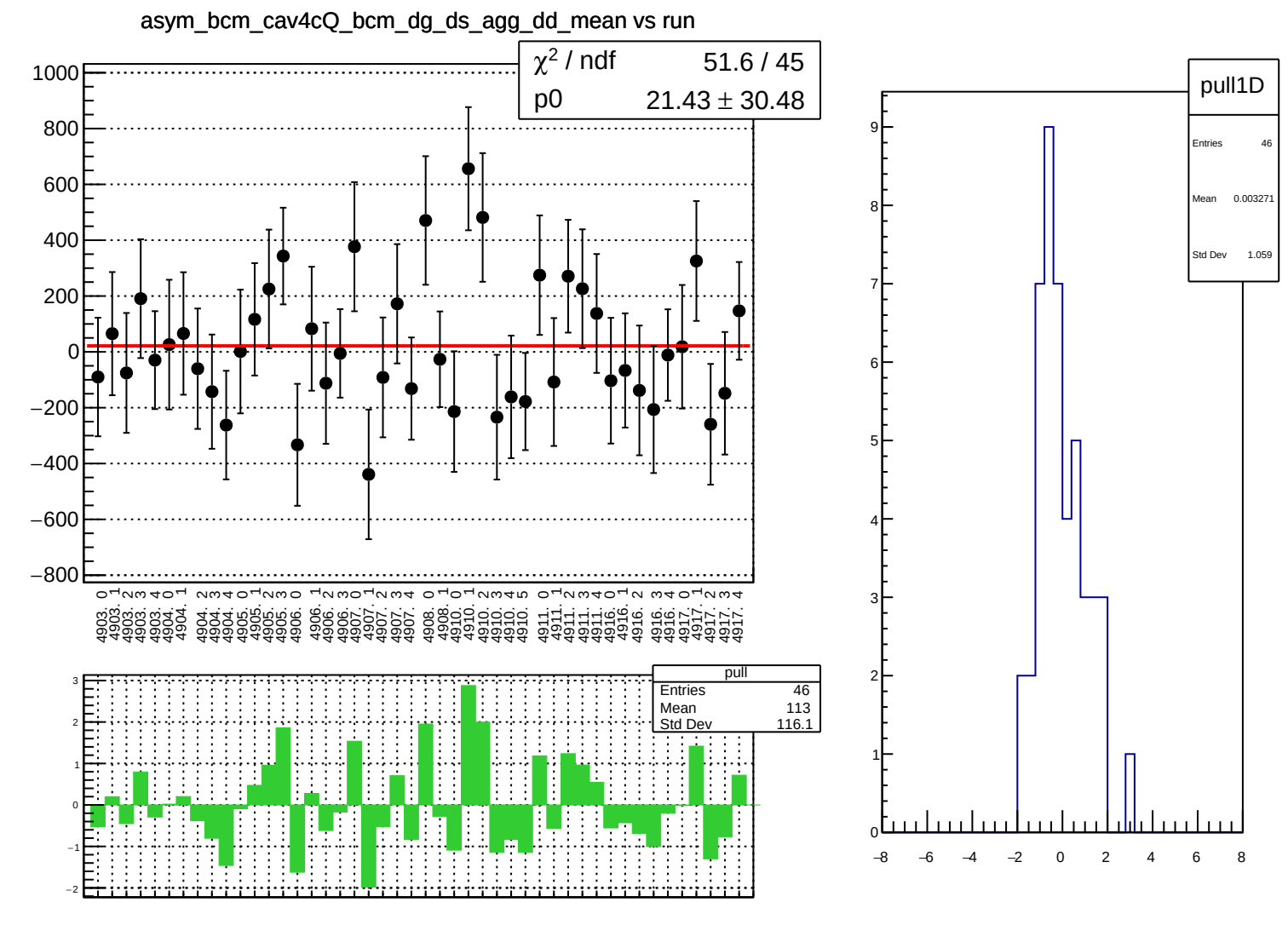

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 46.52 / 45
p0 79.77 ± 38.76
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −95.82
Std Dev 109.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.01311
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

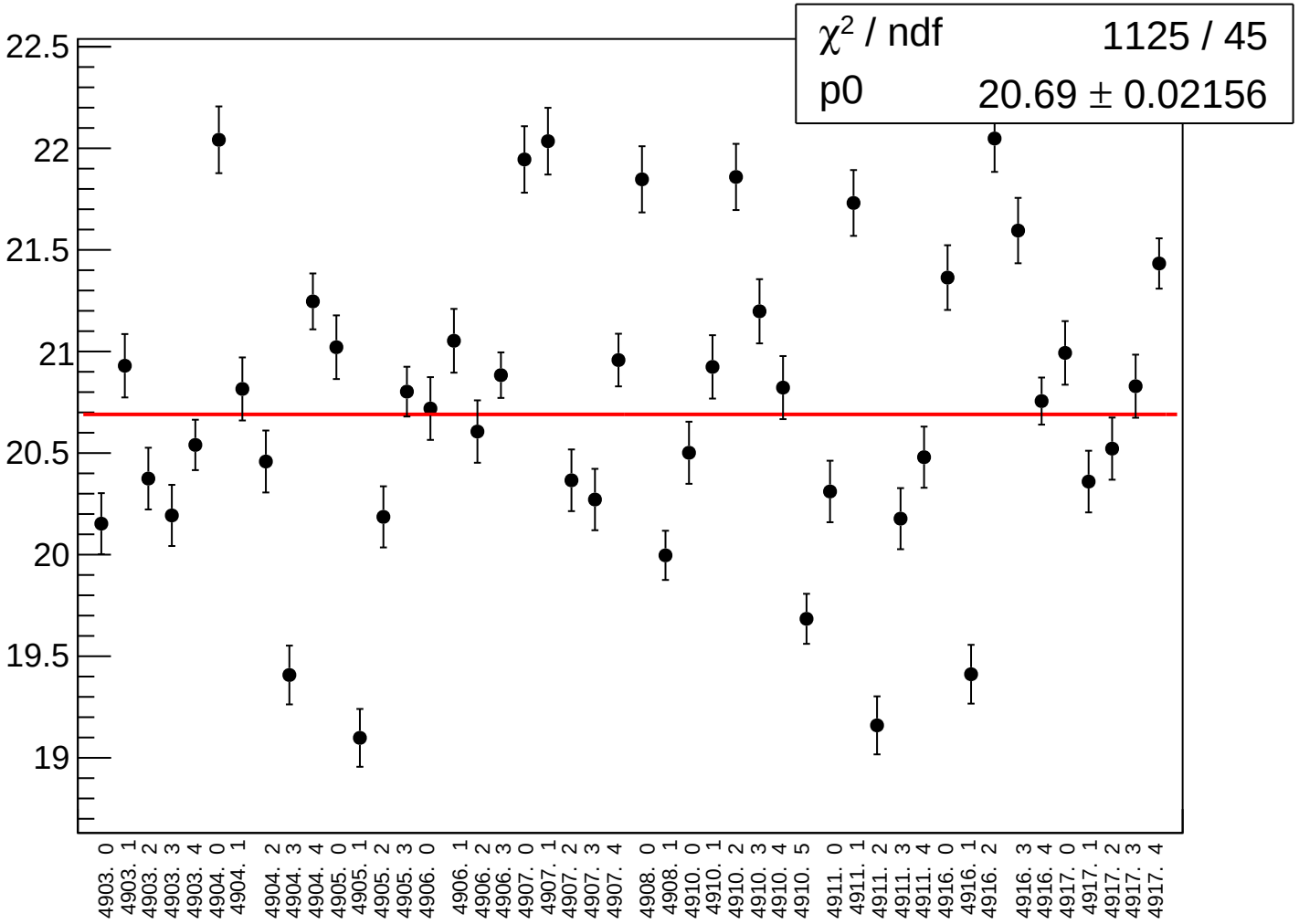

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 759.1 / 45
p0 26.31 ± 0.02741
28
27
26
25
24
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

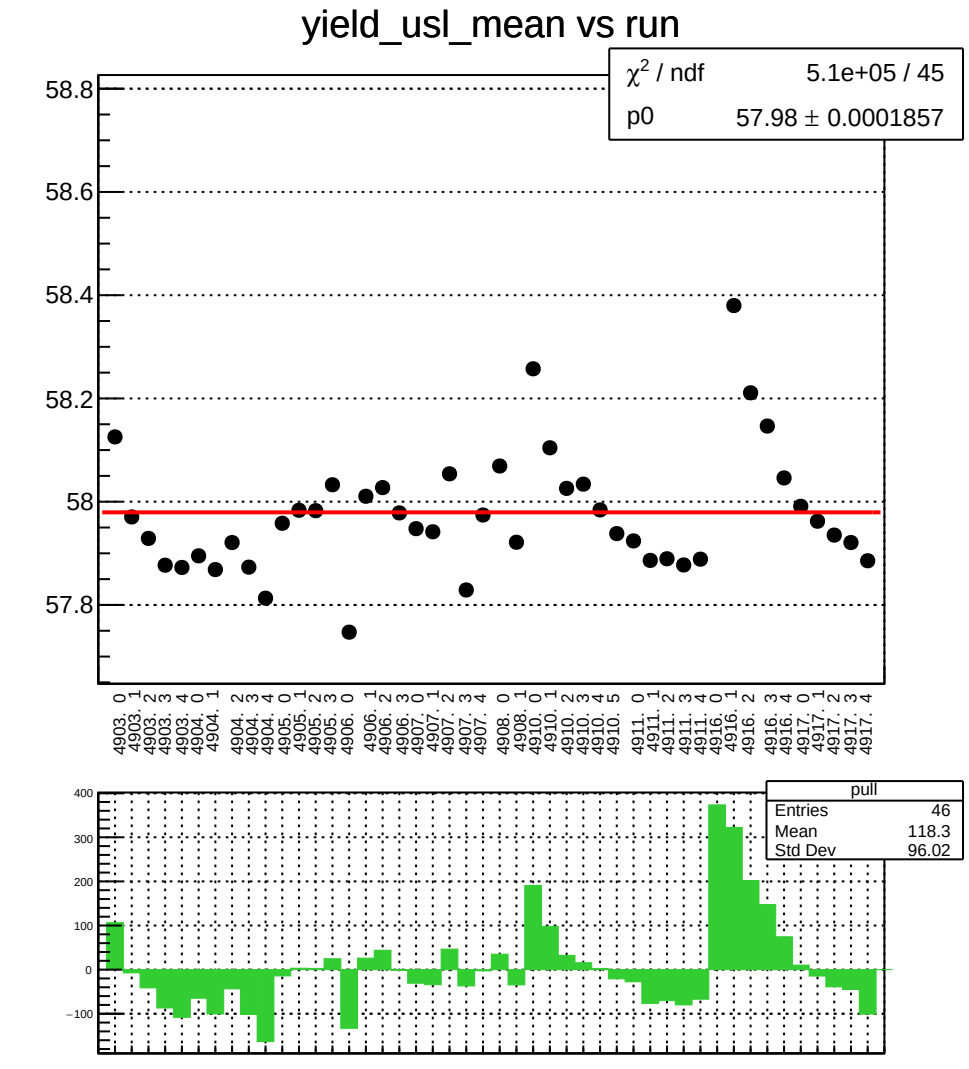

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 6.689 / 45
p0 −34.92 ± 241.5
pull
Entries 46
Mean −74.62
Std Dev 93.13

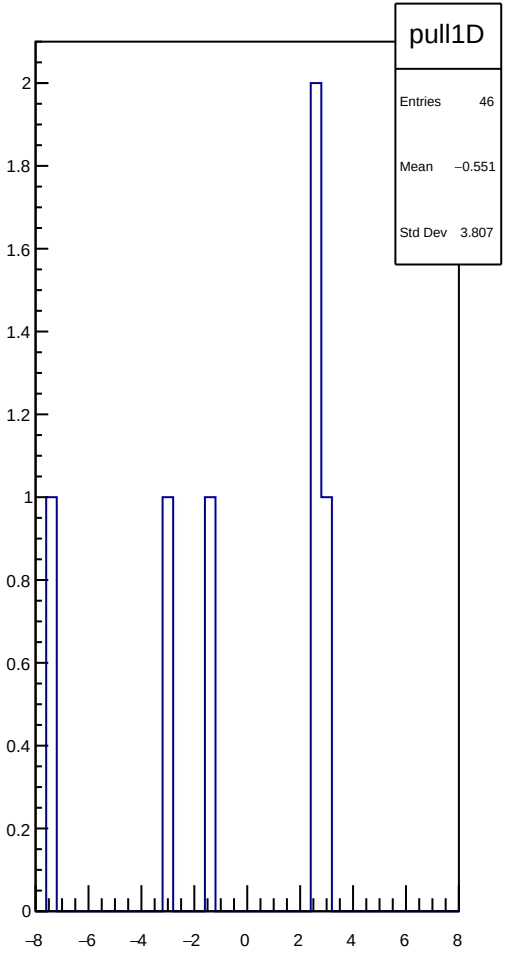

pull1D
Entries 46
Mean −0.006183
Std Dev 0.3813

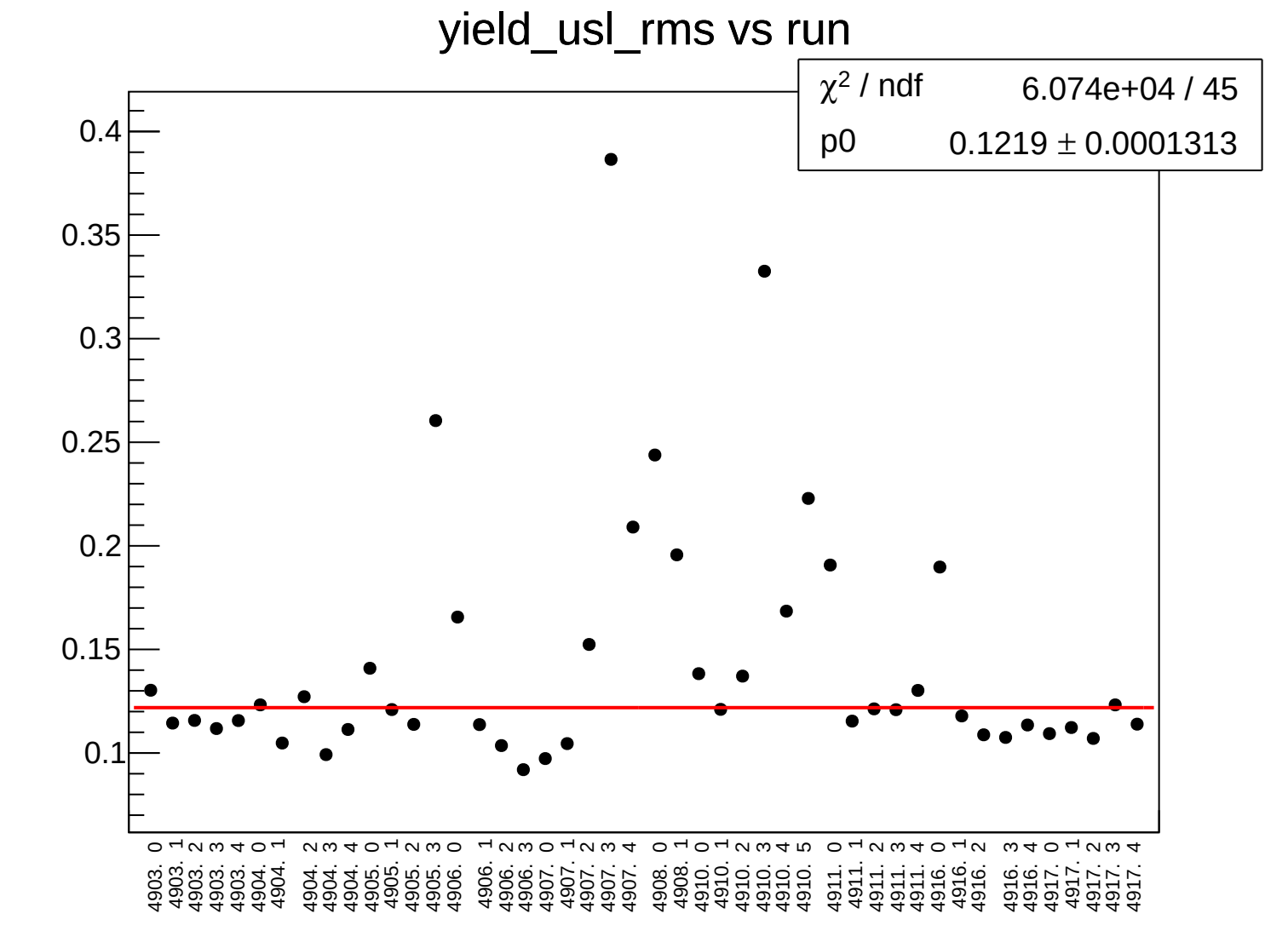

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1363 / 45
p0 163.9 ± 0.1708
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

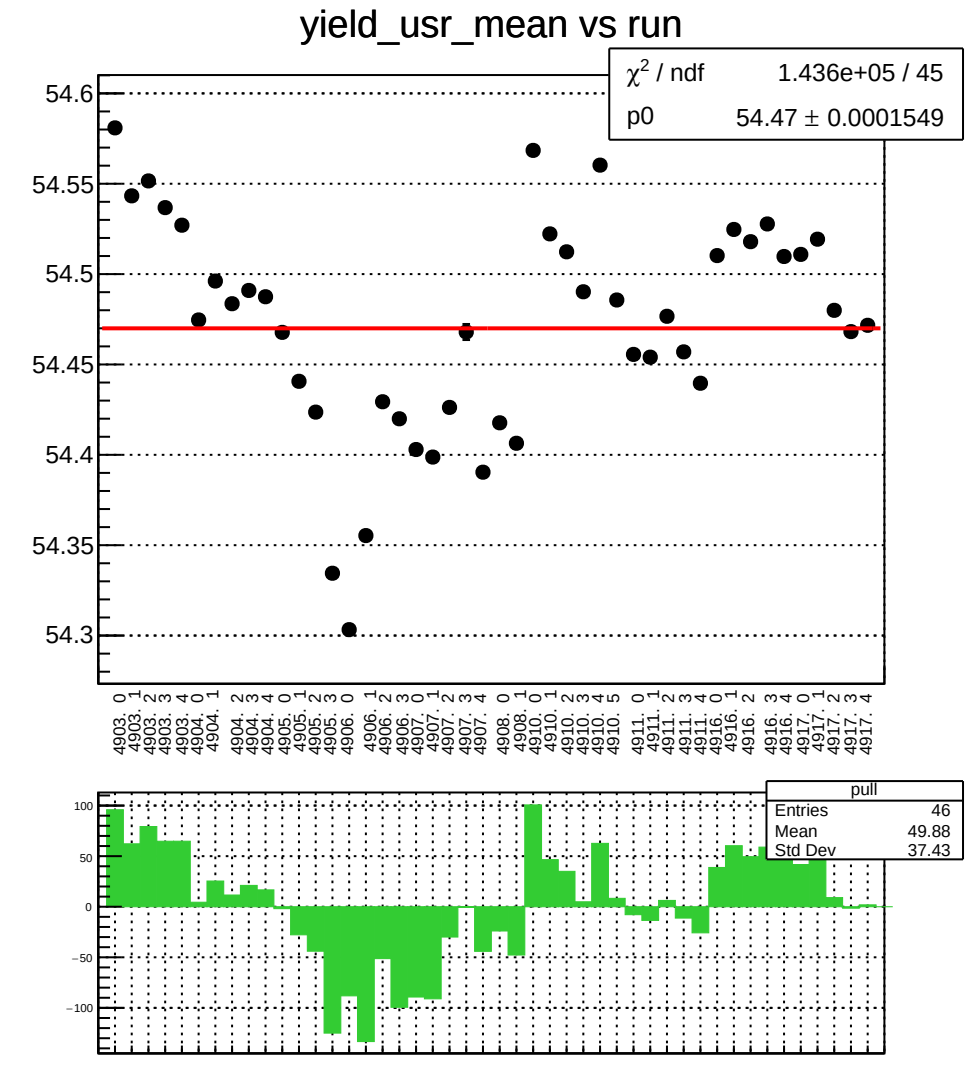

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 51.6 / 45
p0 21.43 ± 30.48
pull
Entries 46
Mean 113
Std Dev 116.1
pull1D
Entries 46
Mean 0.003271
Std Dev 1.059

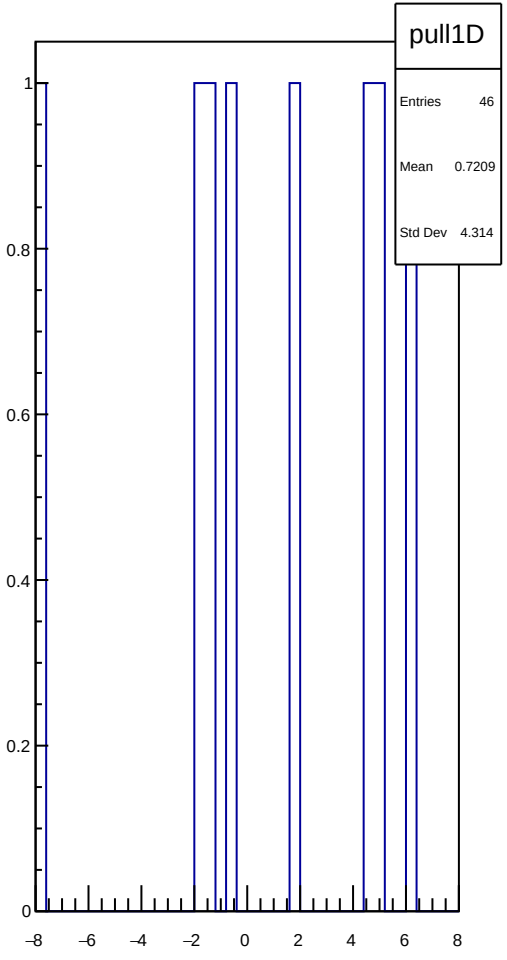

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1125 / 45
p0 20.69 ± 0.02156
22.5
22
21.5
21
20.5
20
19.5
19
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

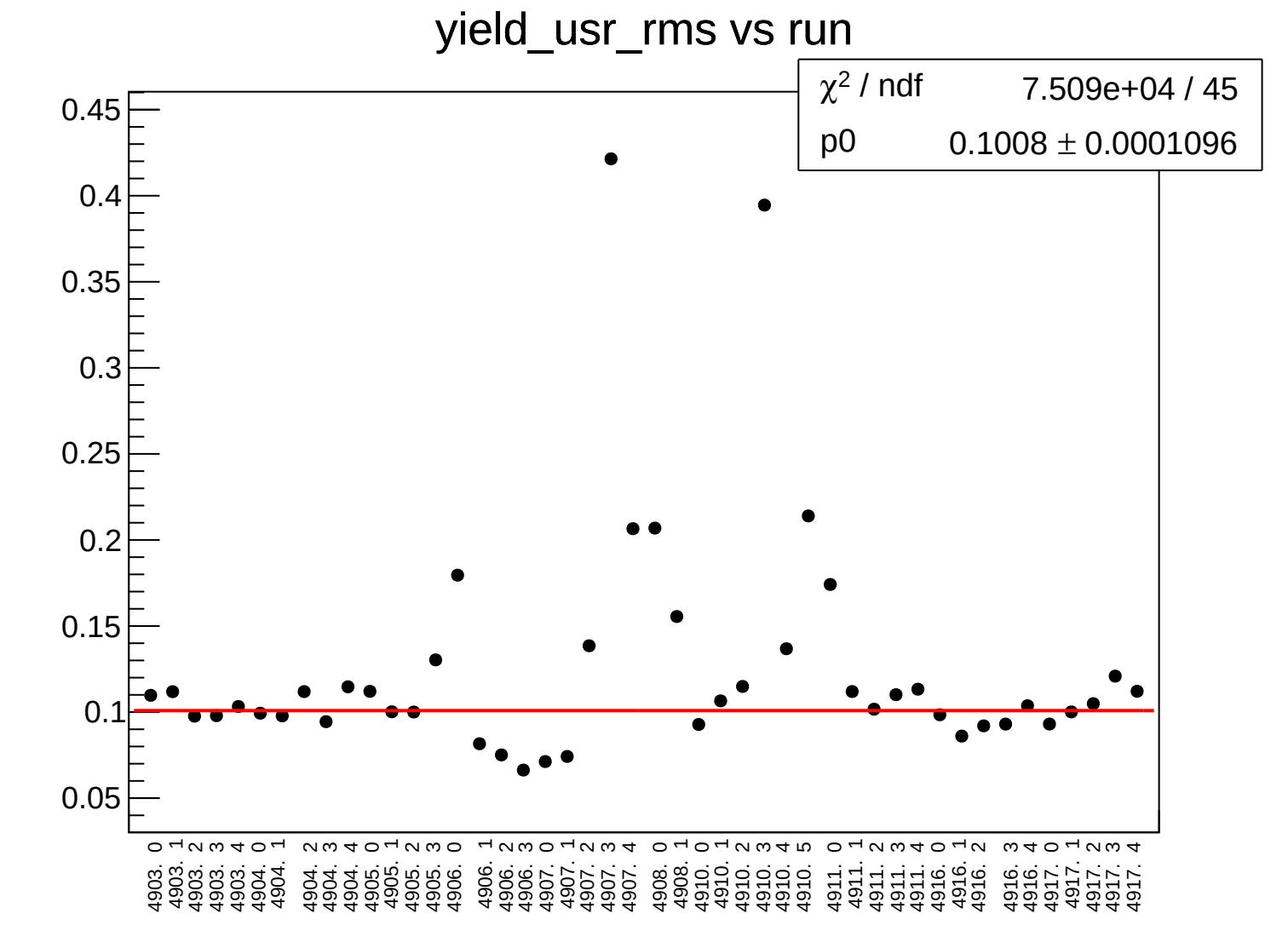

yield_usl_mean vs run
χ² / ndf 5.1e+05 / 45
p0 57.98 ± 0.0001857
58.8
58.6
58.4
58.2
58
57.8
pull
Entries 46
Mean 118.3
Std Dev 96.02
400
300
200
100
0
−100

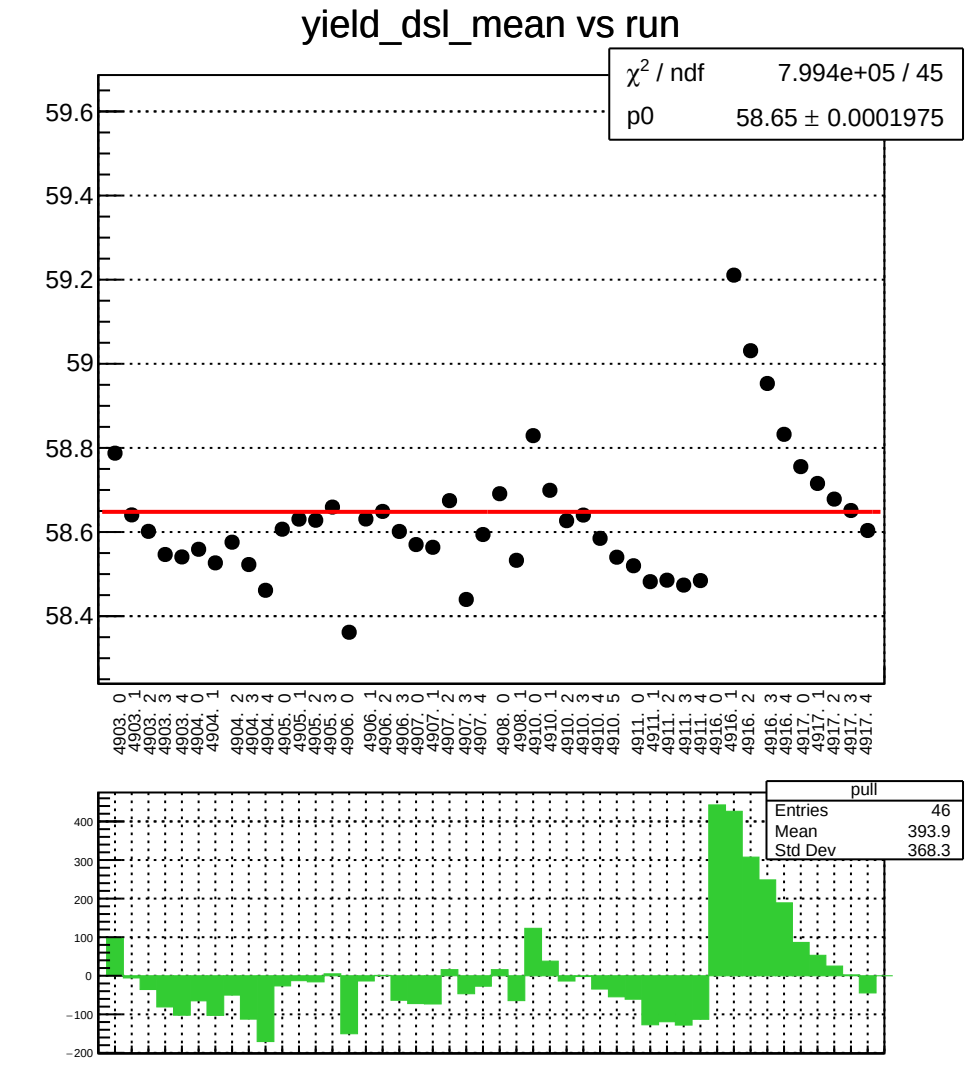

pull1D
Entries 46
Mean −0.551
Std Dev 3.807
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

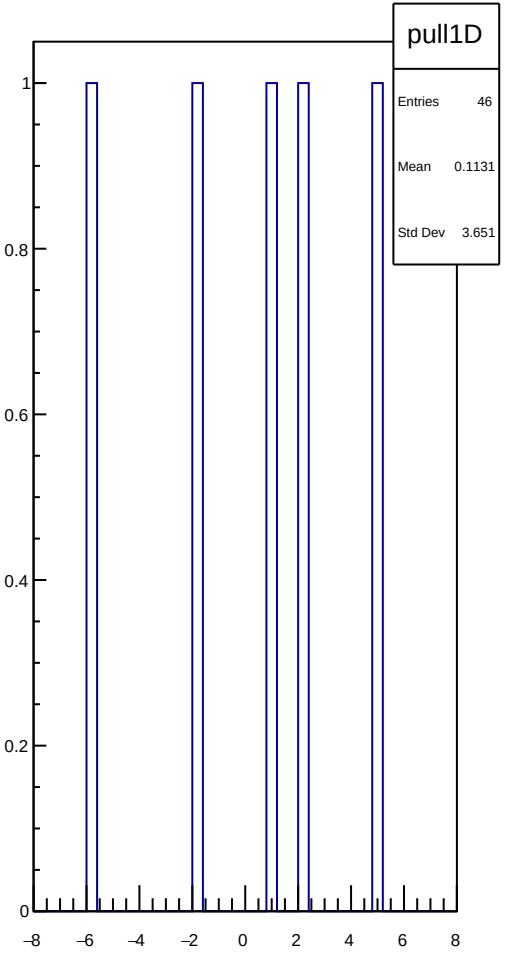

yield_usl_rms vs run
χ² / ndf 6.074e+04 / 45
p0 0.1219 ± 0.0001313
0.4
0.35
0.3
0.25
0.2
0.15
0.1
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

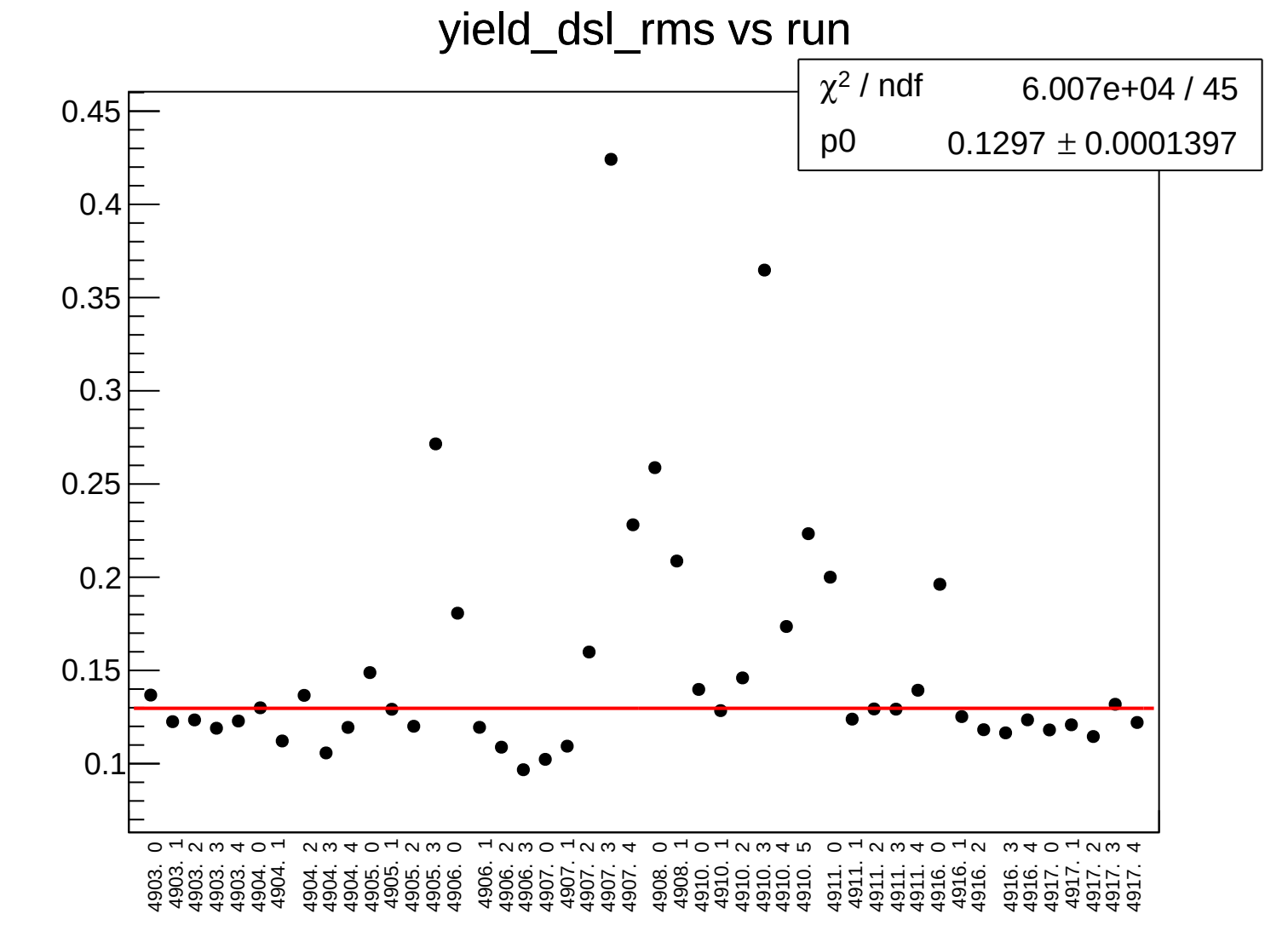

yield_usr_mean vs run
χ² / ndf 1.436e+05 / 45
p0 54.47 ± 0.0001549
54.6
54.55
54.5
54.45
54.4
54.35
54.3
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 49.88
Std Dev 37.43
100
50
0
−50
−100

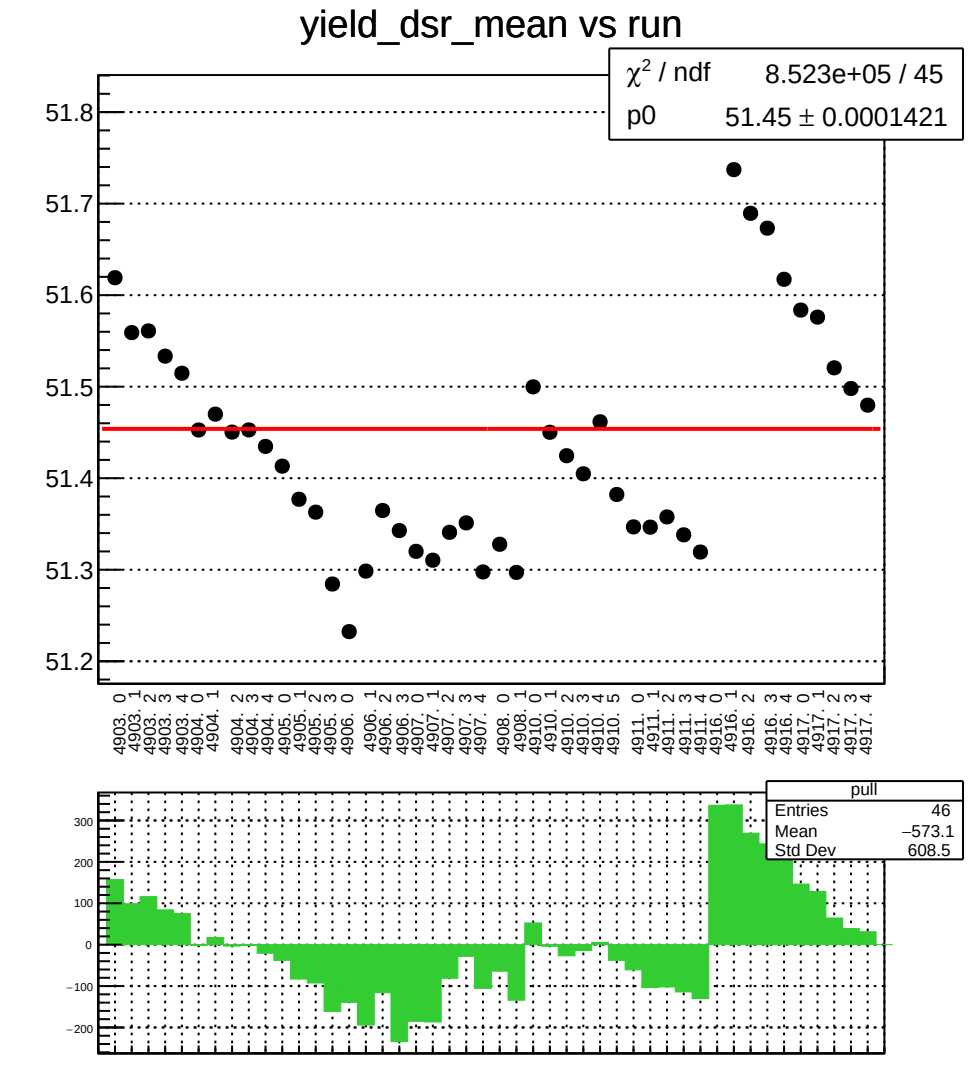

pull1D
Entries 46
Mean 0.7209
Std Dev 4.314
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

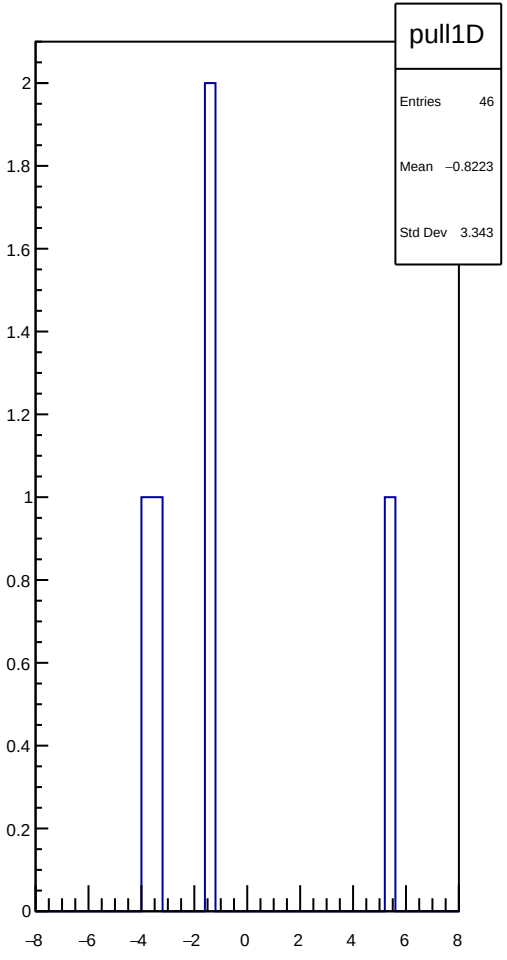

yield_usr_rms vs run
χ² / ndf 7.509e+04 / 45
p0 0.1008 ± 0.0001096
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

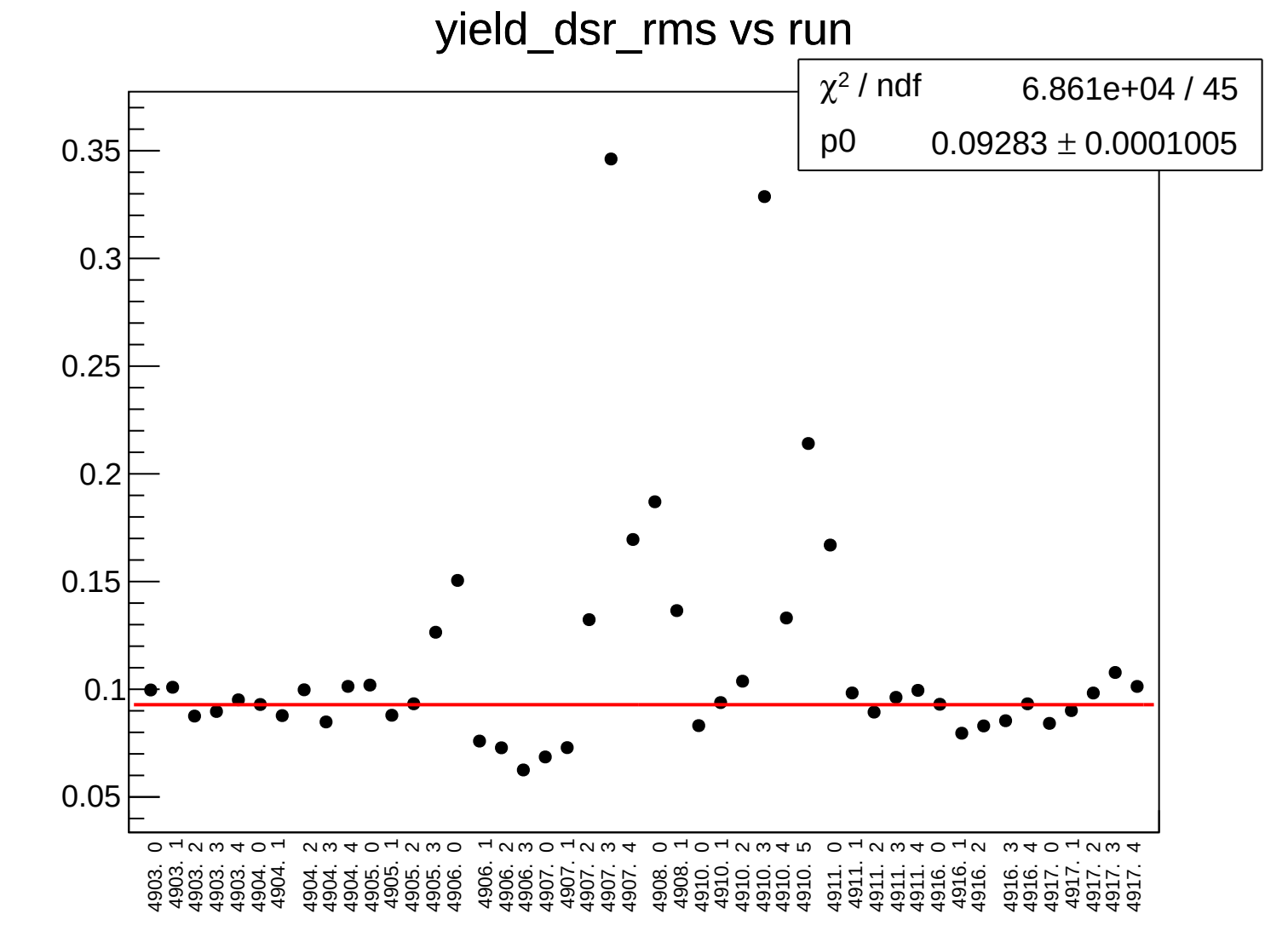

yield_dsl_mean vs run
χ² / ndf 7.994e+05 / 45
p0 58.65 ± 0.0001975
59.6
59.4
59.2
59
58.8
58.6
58.4
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 393.9
Std Dev 368.3
400
300
200
100
0
−100
−200


pull1D
Entries 46
Mean 0.1131
Std Dev 3.651
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 6.007e+04 / 45
p0 0.1297 ± 0.0001397
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


yield_dsr_mean vs run
χ² / ndf 8.523e+05 / 45
p0 51.45 ± 0.0001421
51.8
51.7
51.6
51.5
51.4
51.3
51.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −573.1
Std Dev 608.5
300
200
100
0
−100
−200


pull1D
Entries 46
Mean −0.8223
Std Dev 3.343
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_dsr_rms vs run
χ² / ndf 6.861e+04 / 45
p0 0.09283 ± 0.0001005
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
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4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
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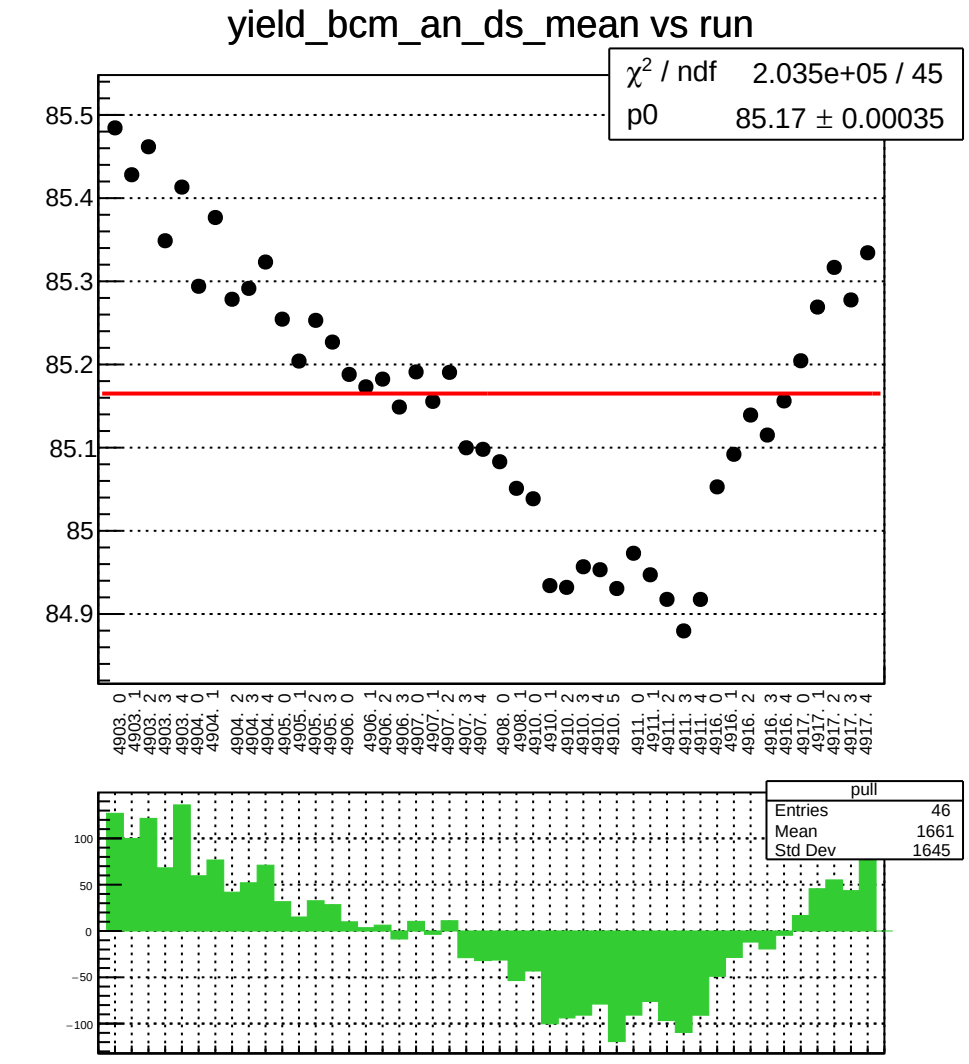
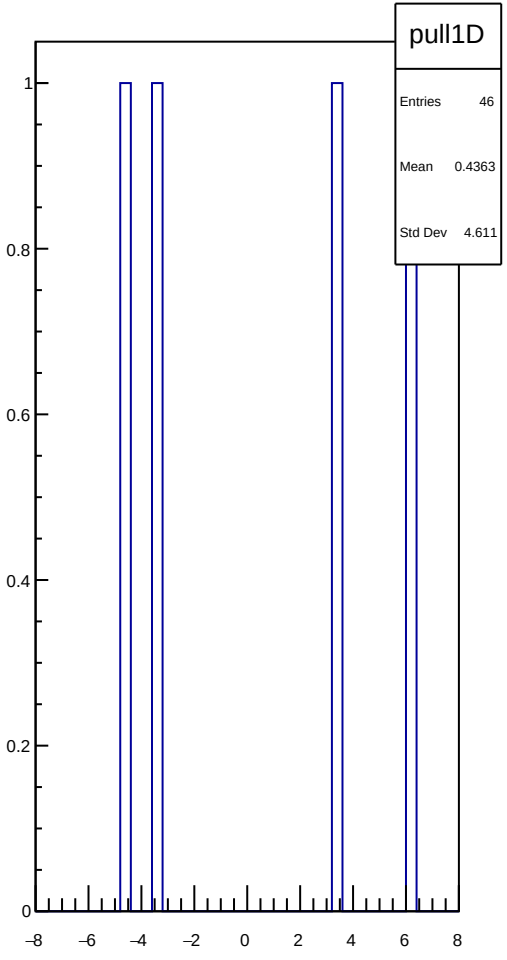
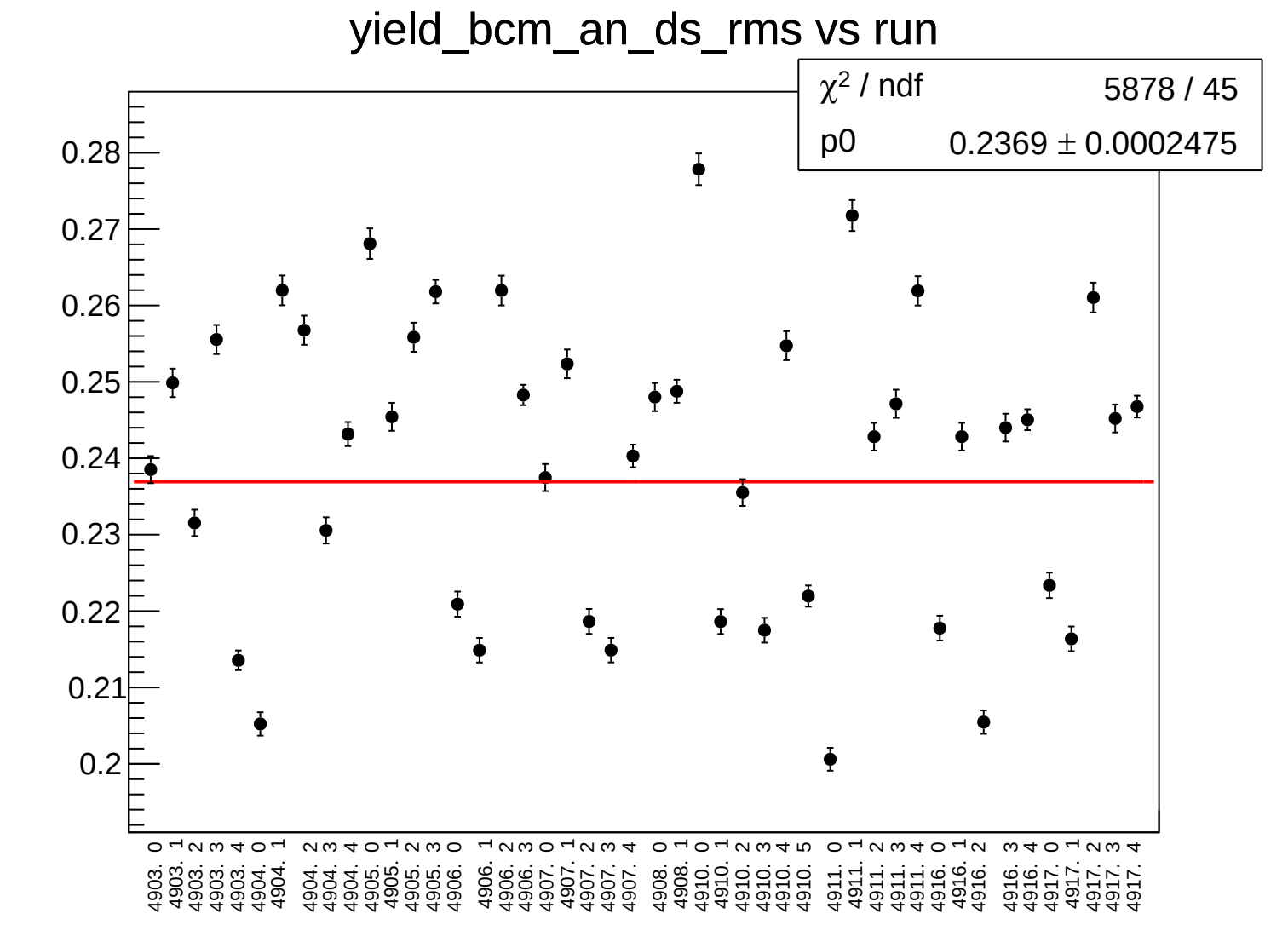
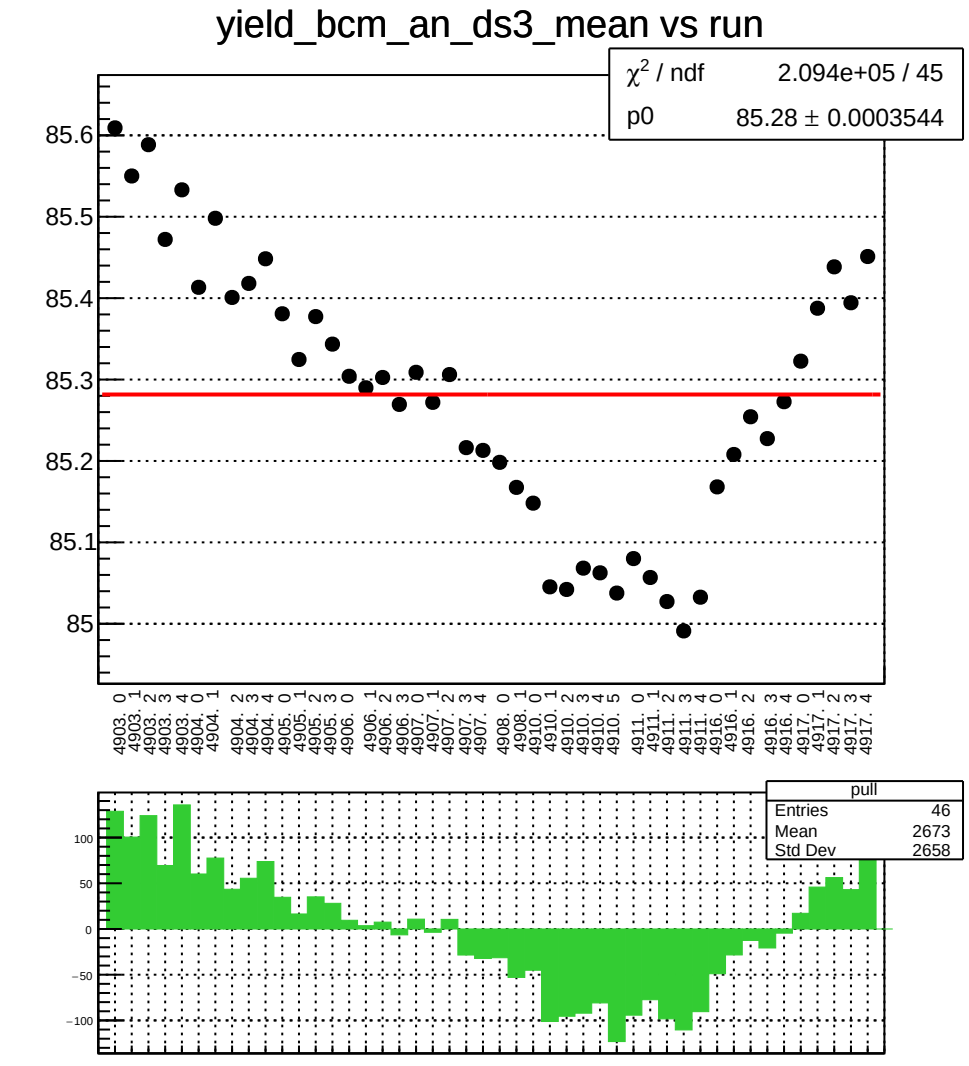
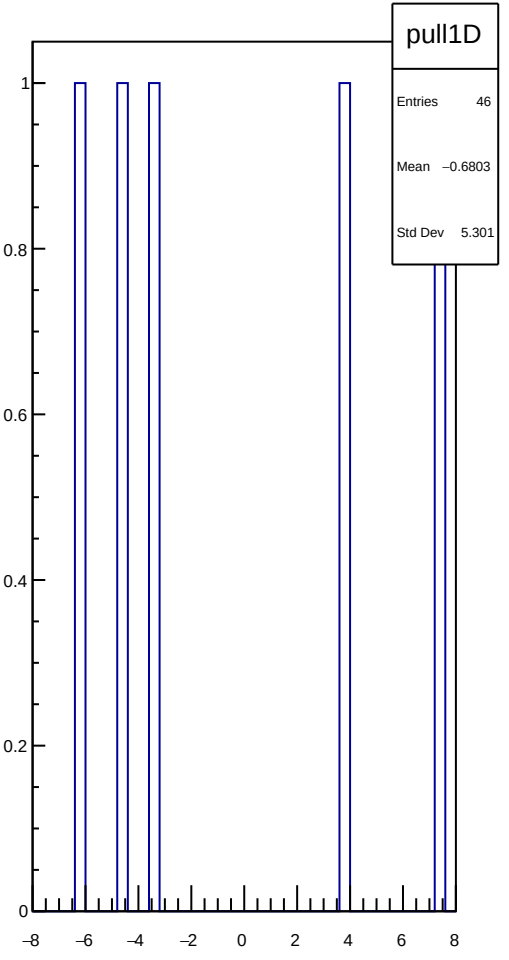
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

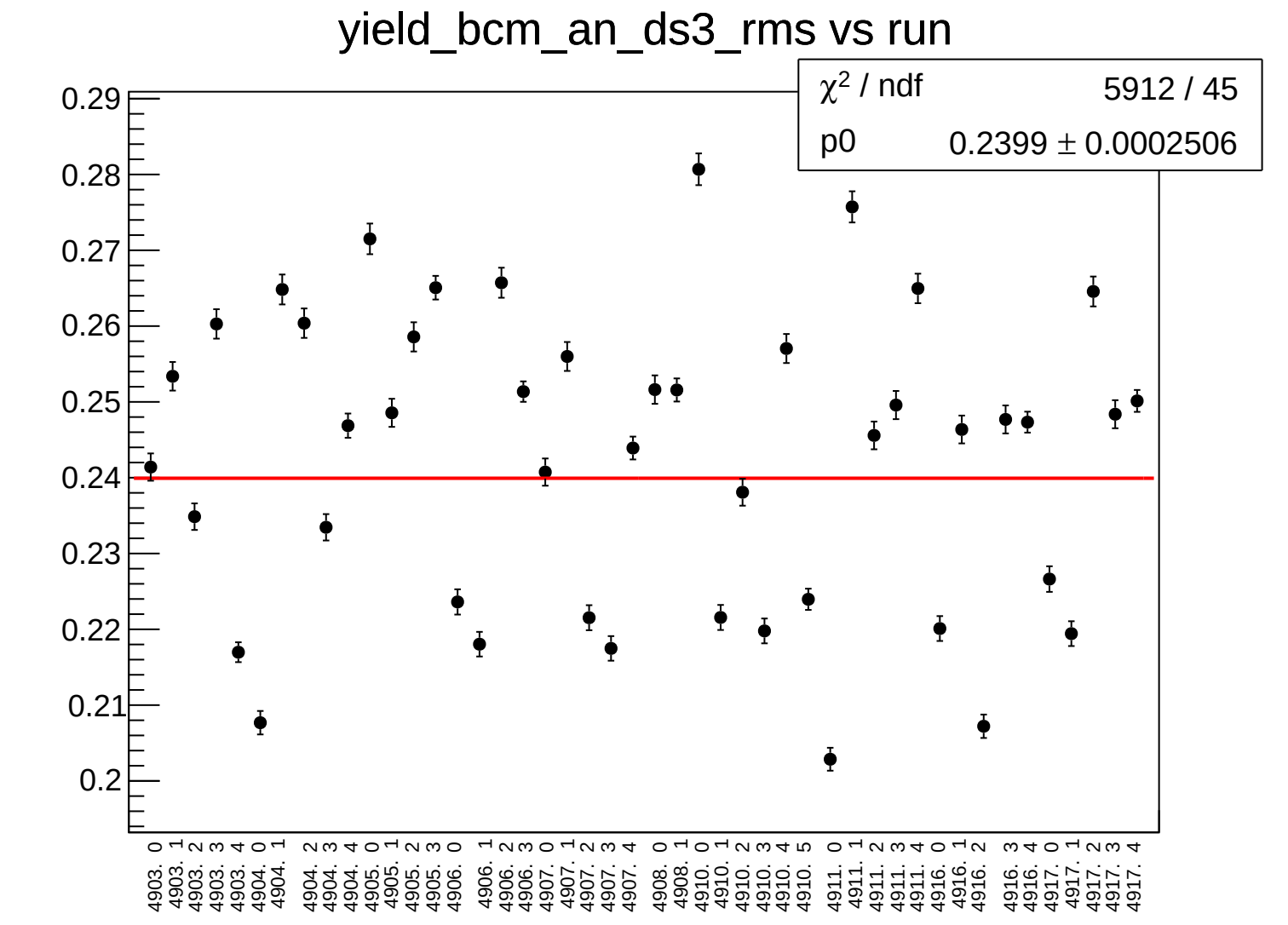

yield_bcm_an_ds_mean vs run
χ² / ndf 2.035e+05 / 45
p0 85.17 ± 0.00035
85.5
85.4
85.3
85.2
85.1
85
84.9
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 1661
Std Dev 1645
100
50
0
−50
−100

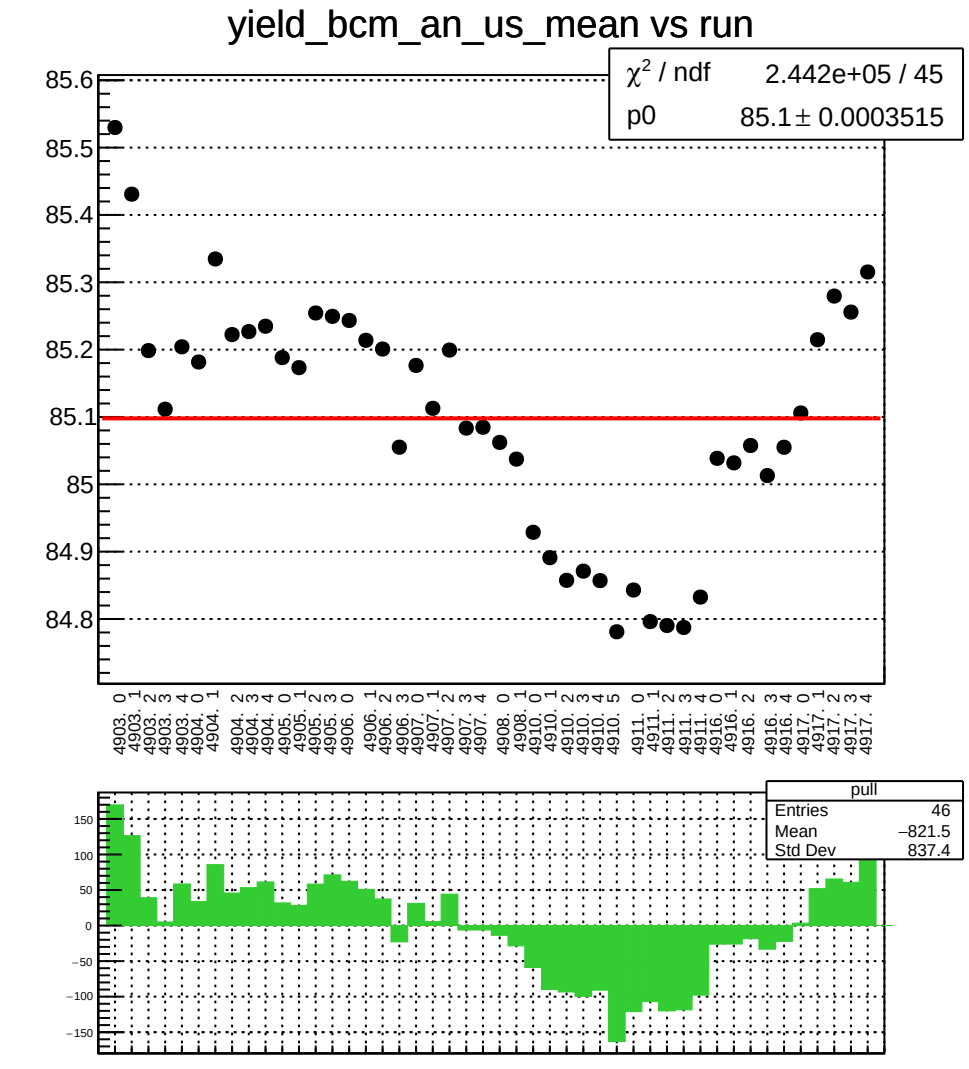

pull1D
Entries 46
Mean 0.4363
Std Dev 4.611
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds_rms vs run
χ² / ndf 5878 / 45
p0 0.2369 ± 0.0002475
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


yield_bcm_an_ds3_mean vs run
χ² / ndf 2.094e+05 / 45
p0 85.28 ± 0.0003544
85.6
85.5
85.4
85.3
85.2
85.1
85
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 2673
Std Dev 2658
100
50
0
−50
−100


pull1D
Entries 46
Mean −0.6803
Std Dev 5.301
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 5912 / 45
p0 0.2399 ± 0.0002506
0.29
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


yield_bcm_an_us_mean vs run
χ² / ndf 2.442e+05 / 45
p0 85.1 ± 0.0003515
85.6
85.5
85.4
85.3
85.2
85.1
85
84.9
84.8
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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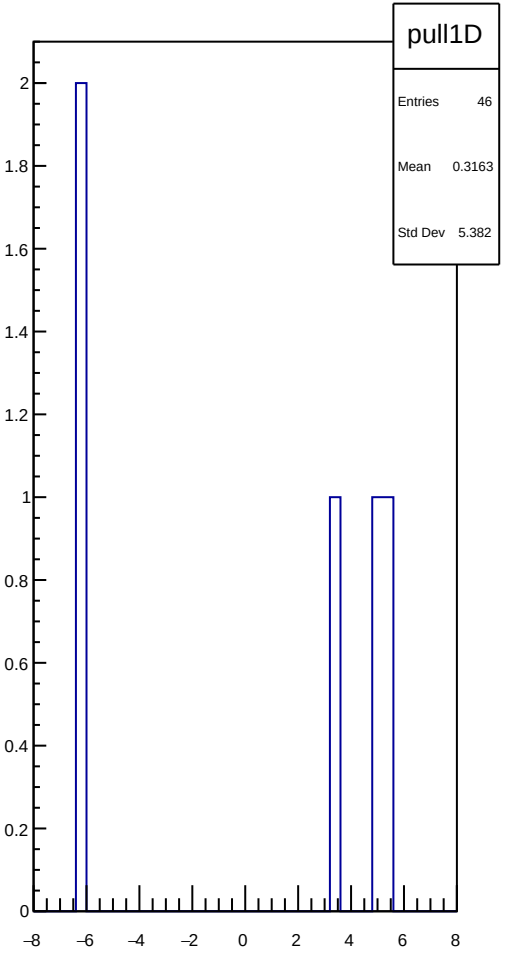
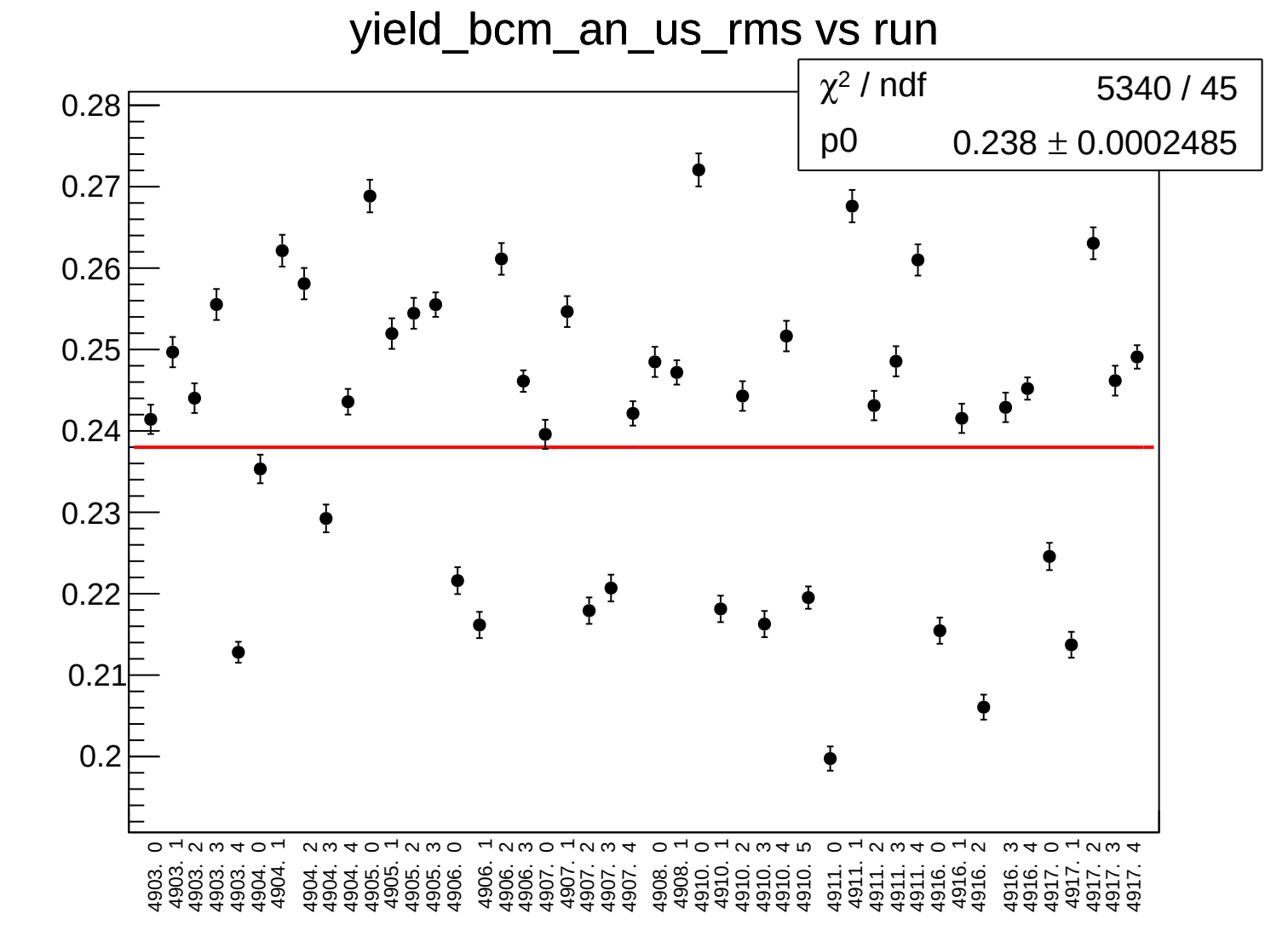
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −821.5
Std Dev 837.4
150
100
50
0
−50
−100
−150


pull1D
Entries 46
Mean 0.3163
Std Dev 5.382
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 5340 / 45
p0 0.238 ± 0.0002485
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
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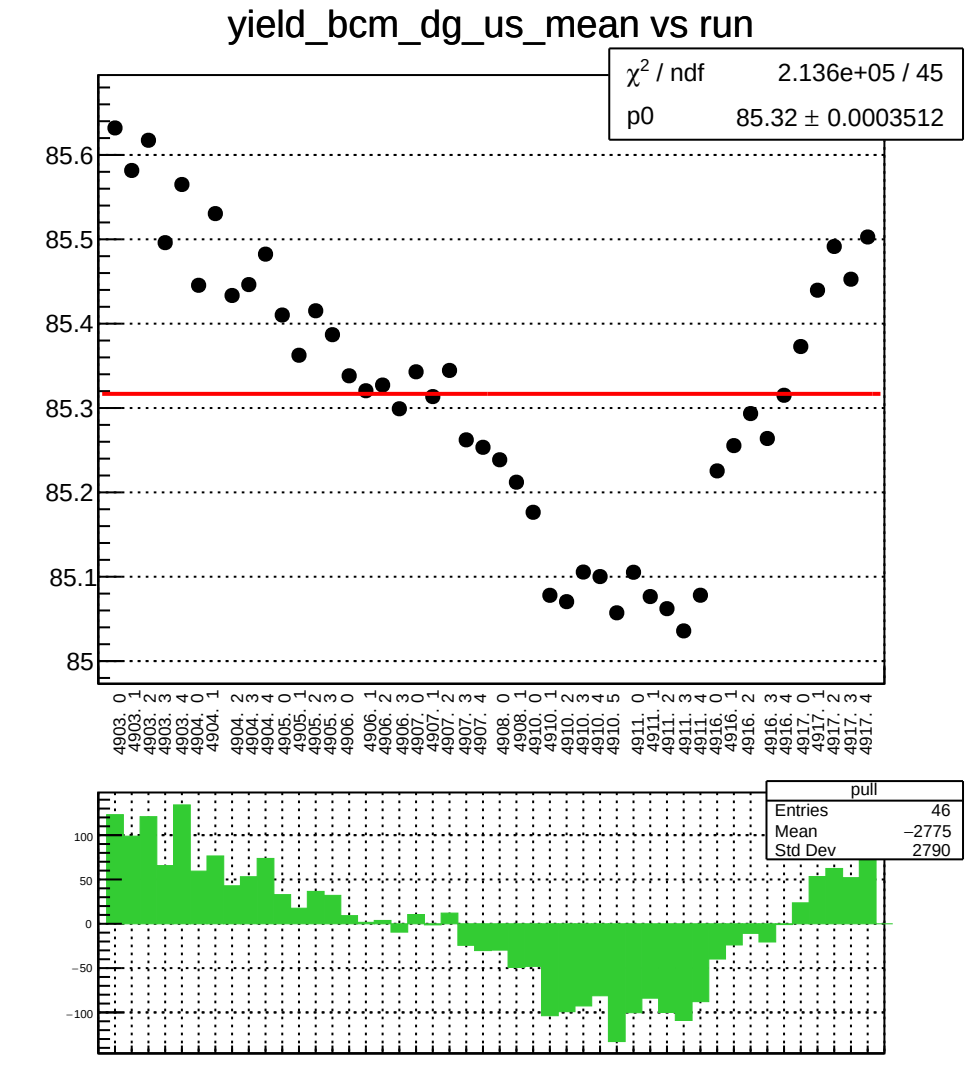
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


yield_bcm_dg_us_mean vs run
χ² / ndf 2.136e+05 / 45
p0 85.32 ± 0.0003512
85.6
85.5
85.4
85.3
85.2
85.1
85
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
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4907. 0
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4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
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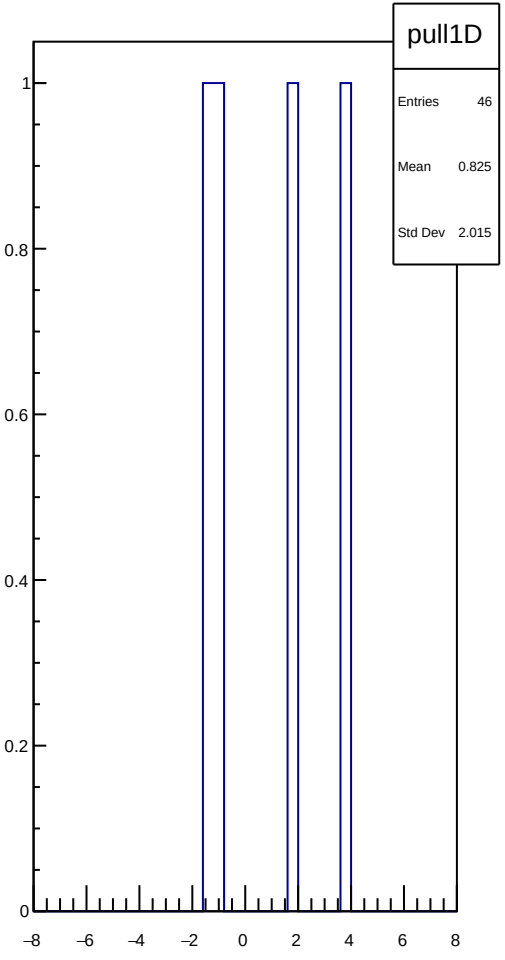
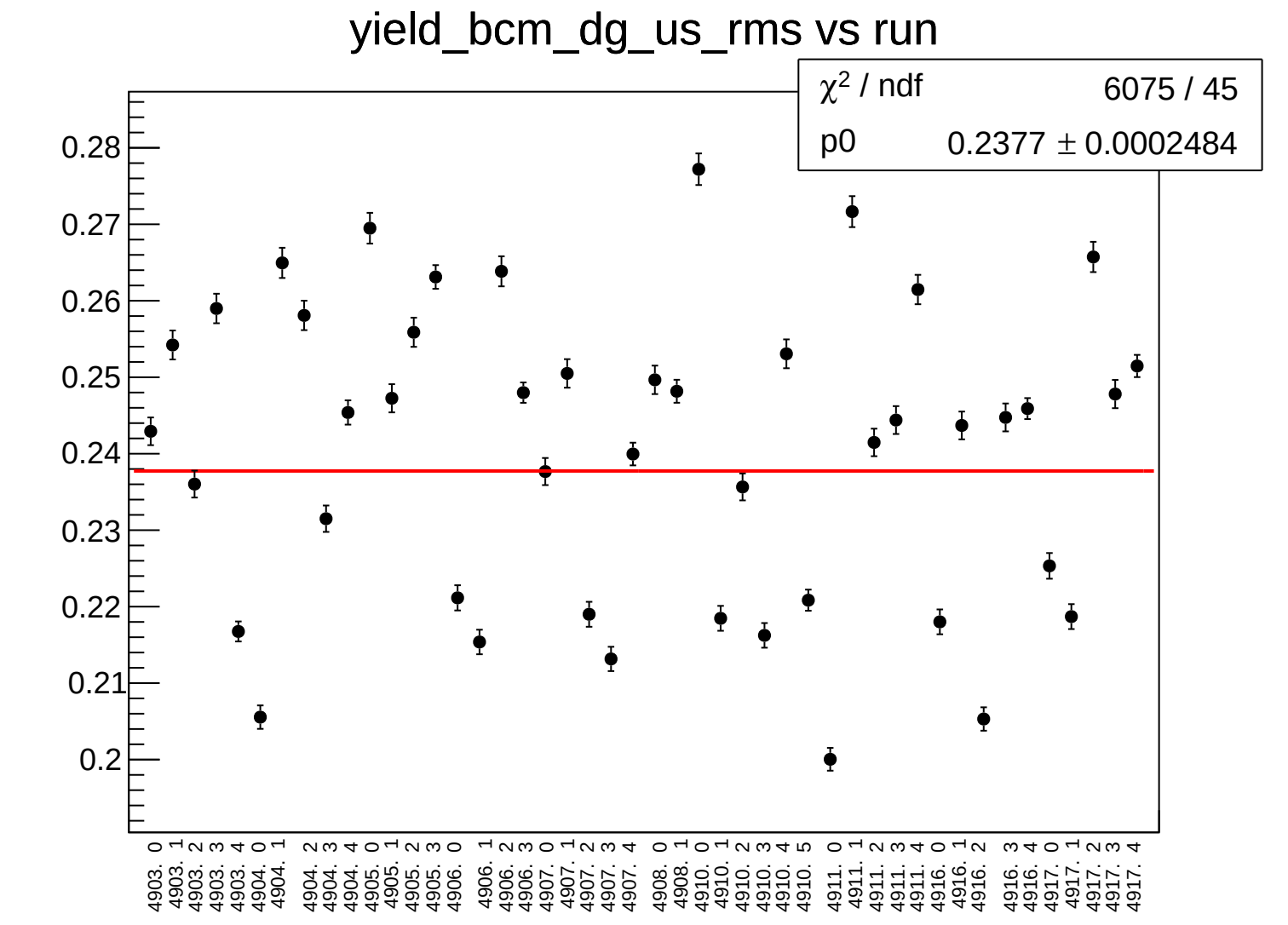
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −2775
Std Dev 2790
100
50
0
−50
−100


pull1D
Entries 46
Mean 0.825
Std Dev 2.015
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 6075 / 45
p0 0.2377 ± 0.0002484
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
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4910. 5
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4911. 2
4911. 3
4911. 4
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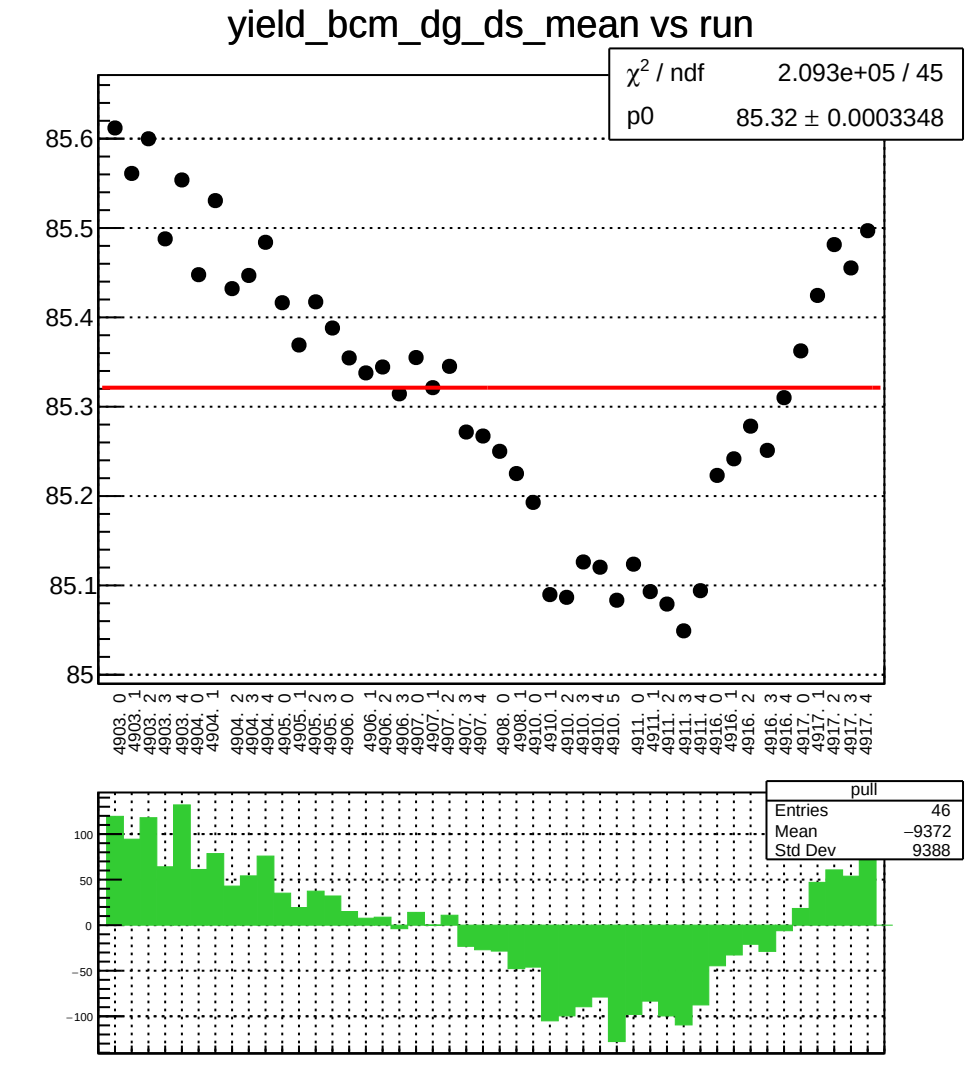
4917. 2
4917. 3
4917. 4


yield_bcm_dg_ds_mean vs run
χ² / ndf 2.093e+05 / 45
p0 85.32 ± 0.0003348
85.6
85.5
85.4
85.3
85.2
85.1
85
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
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4907. 4
4908. 0
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4910. 2
4910. 3
4910. 4
4910. 5
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4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
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4916. 4
4917. 0
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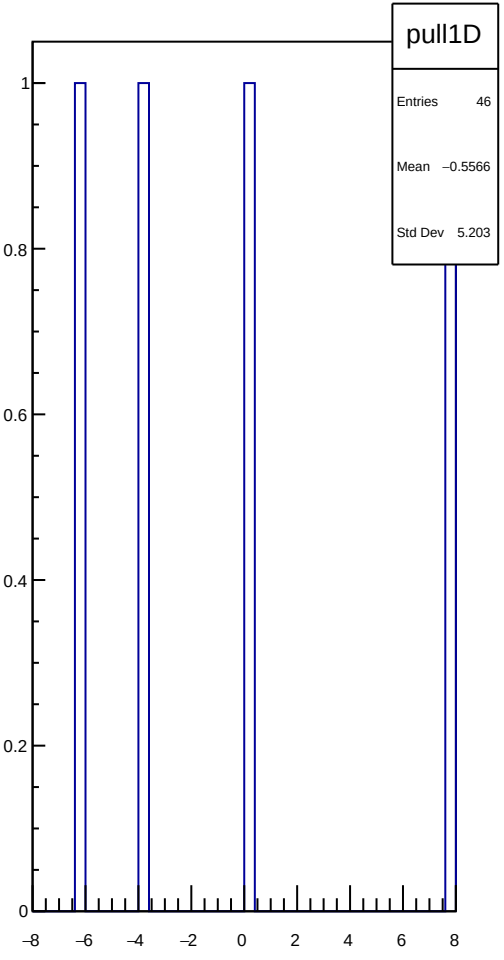
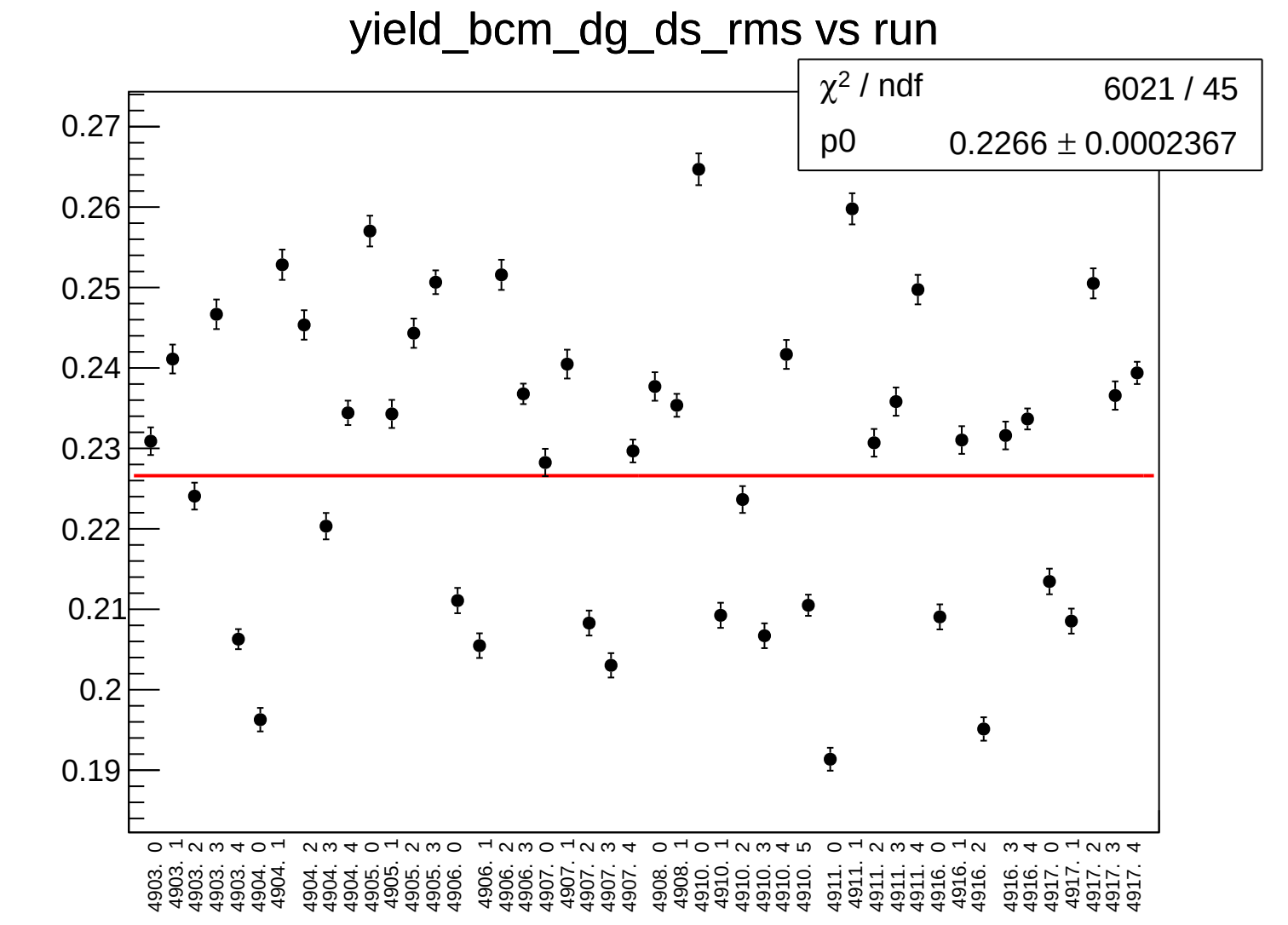
4917. 3
4917. 4
pull
Entries 46
Mean −9372
Std Dev 9388
100
50
0
−50
−100


pull1D
Entries 46
Mean −0.5566
Std Dev 5.203
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 6021 / 45
p0 0.2266 ± 0.0002367
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
0.19
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
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4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
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4907. 2
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4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
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4911. 1
4911. 2
4911. 3
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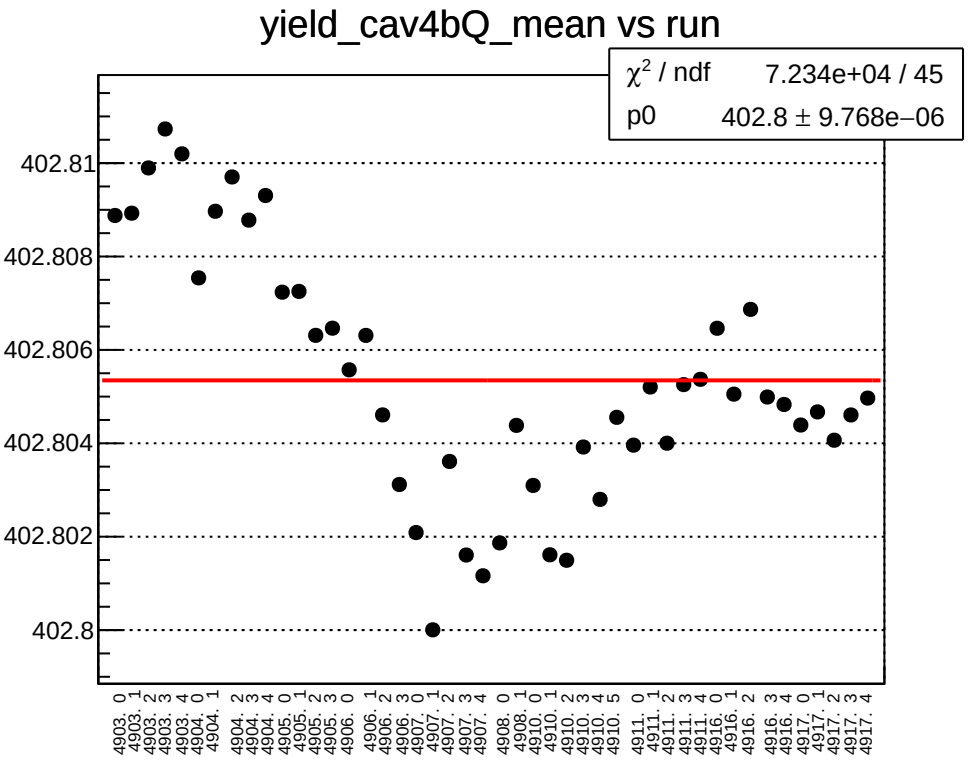
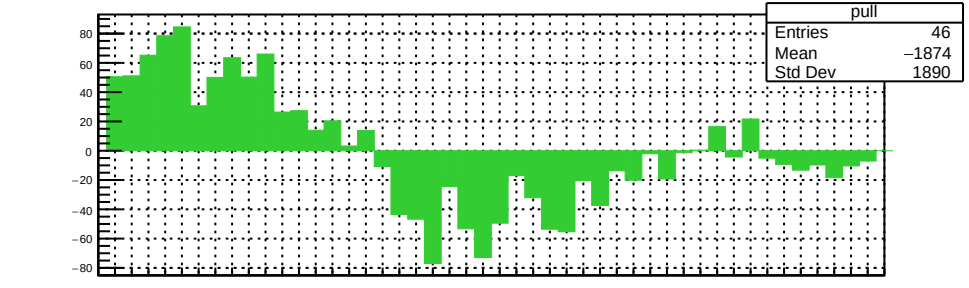
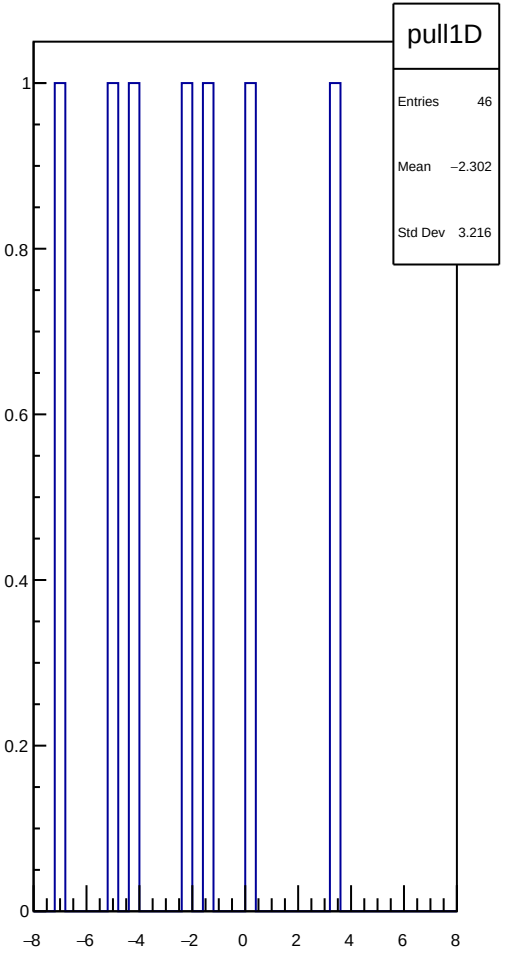
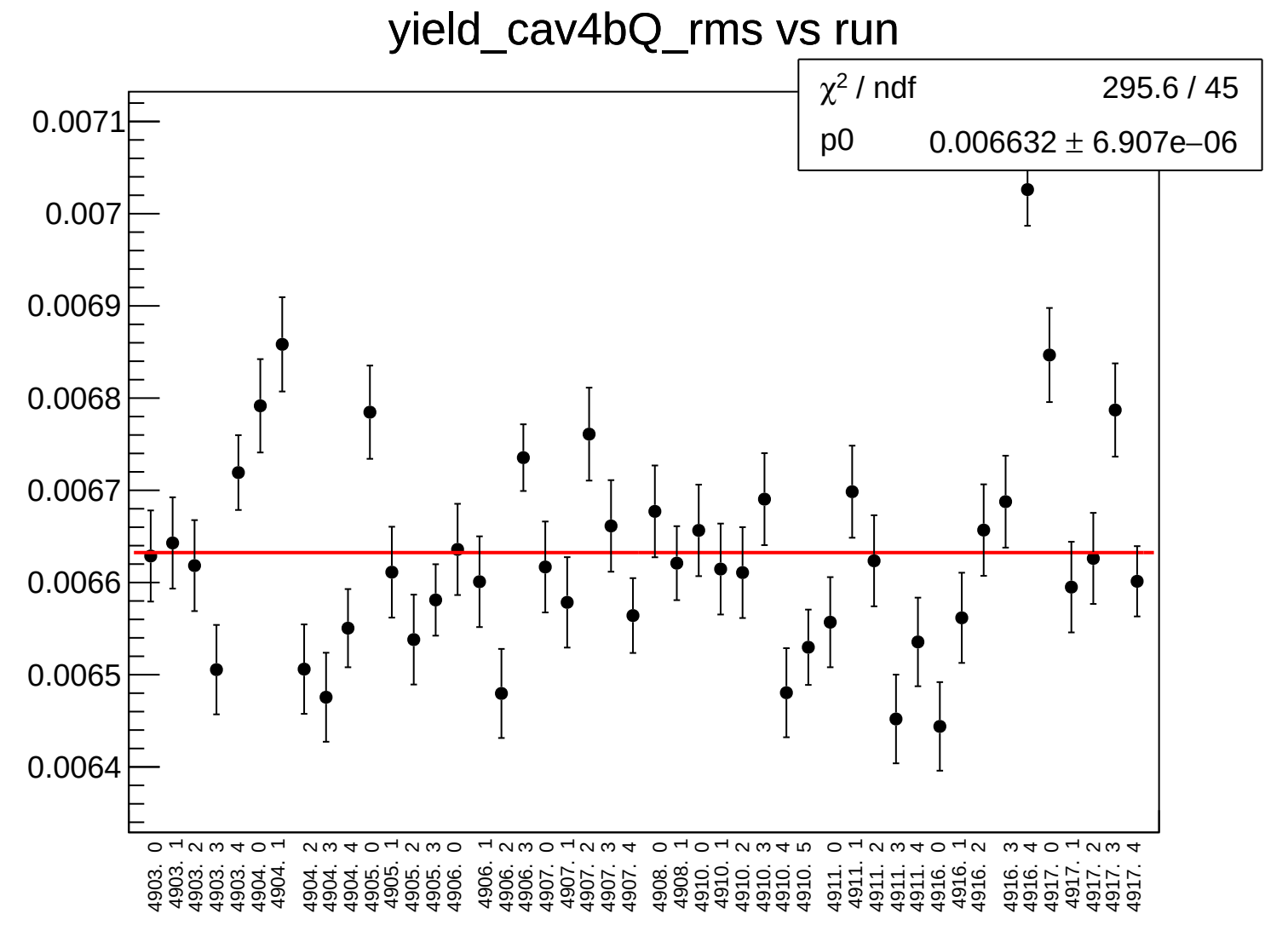
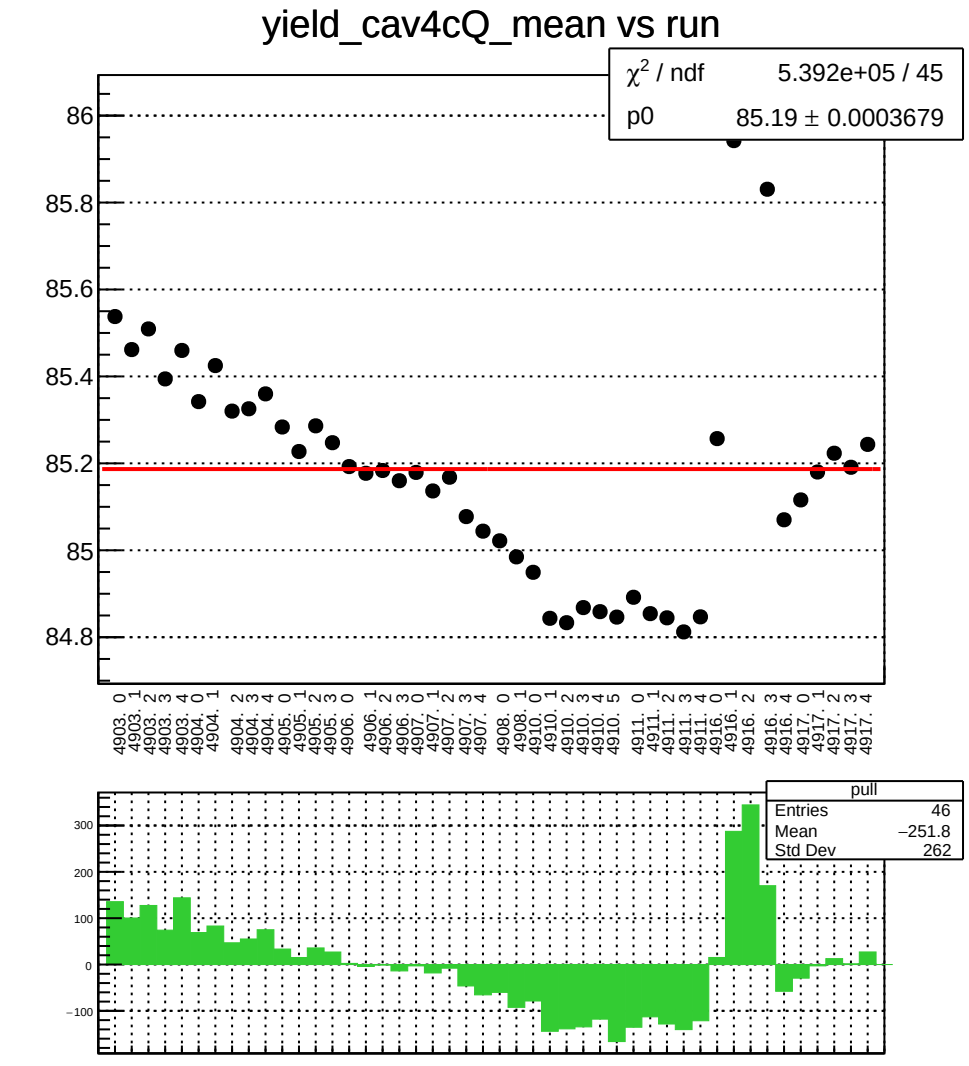
4917. 4

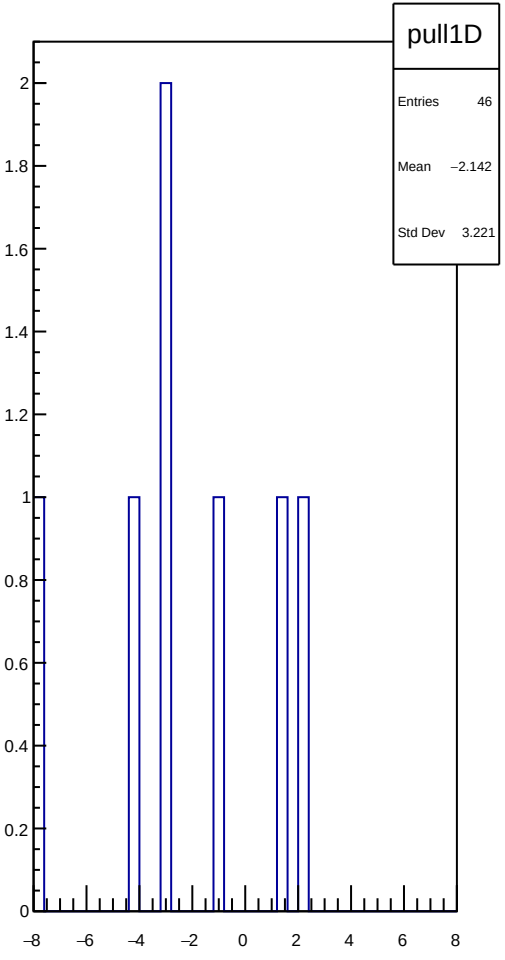

yield_cav4bQ_mean vs run
χ² / ndf 7.234e+04 / 45
p0 402.8 ± 9.768e−06
402.81
402.808
402.806
402.804
402.802
402.8
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

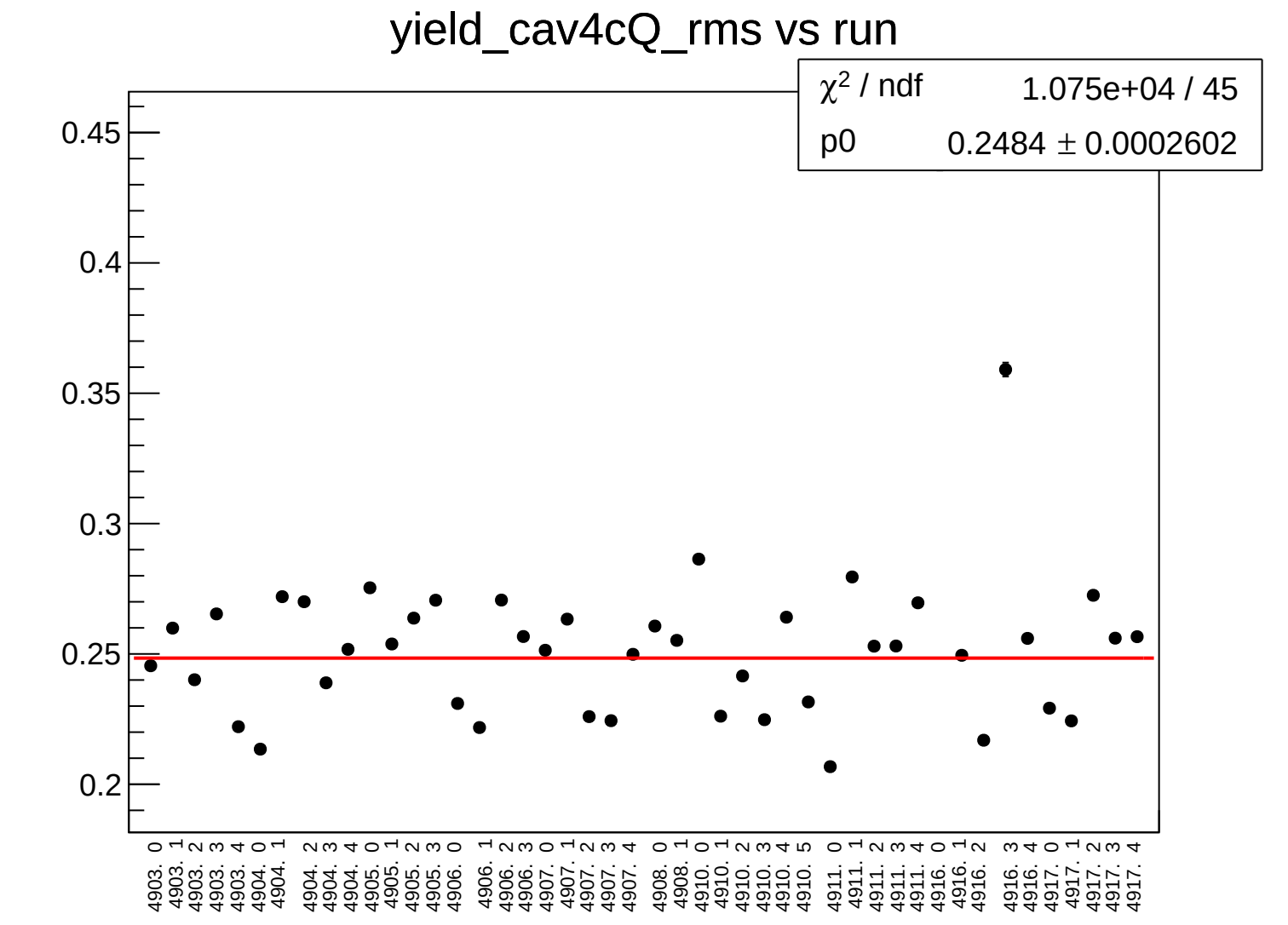

pull
Entries 46
Mean −1874
Std Dev 1890
80
60
40
20
0
−20
−40
−60
−80

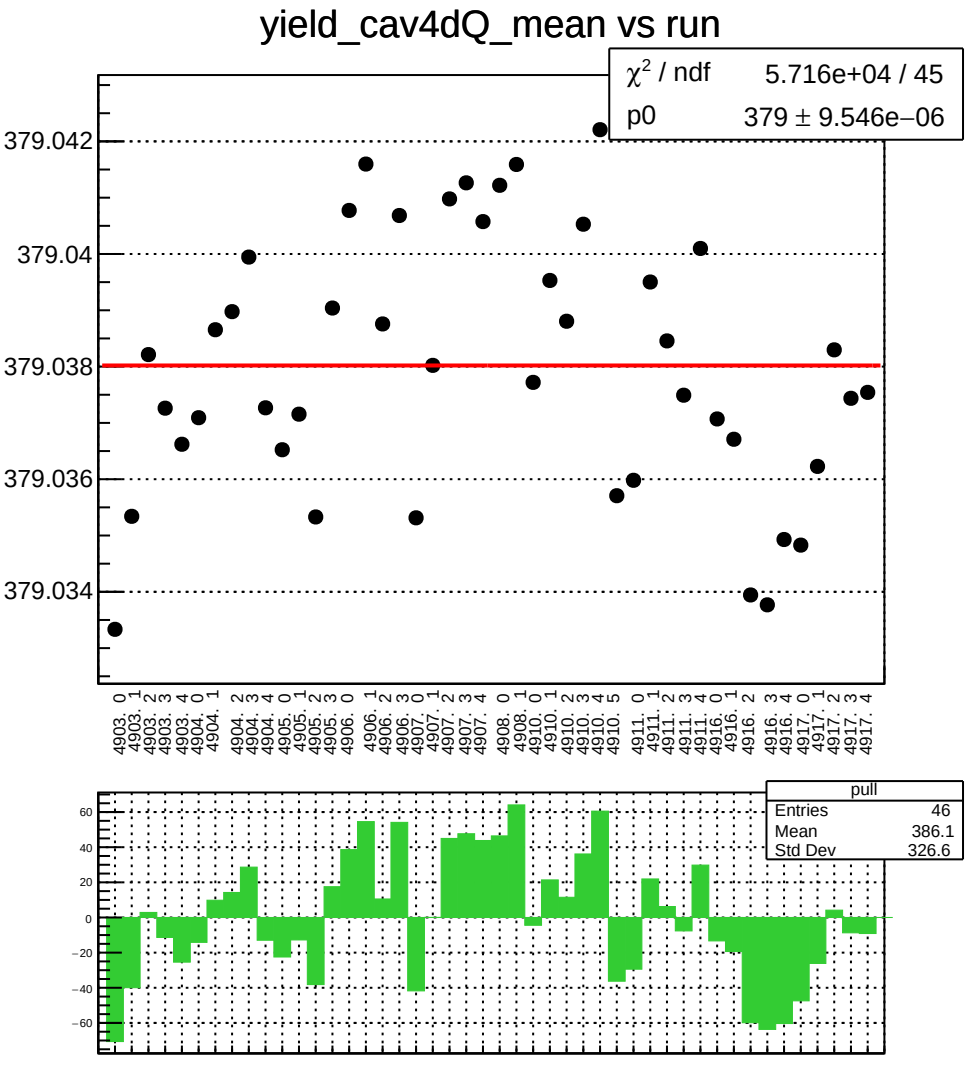

pull1D
Entries 46
Mean −2.302
Std Dev 3.216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

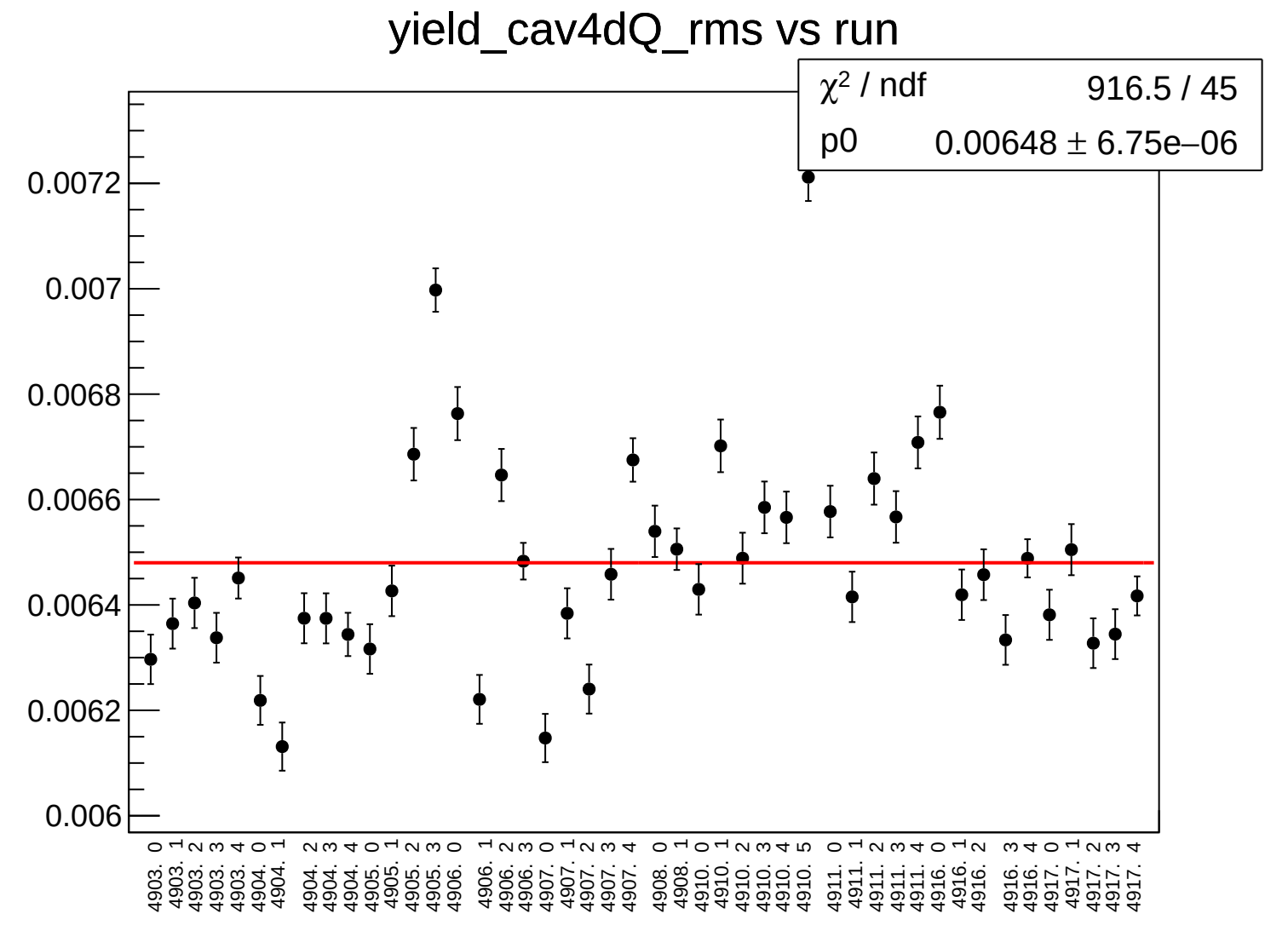

yield_cav4bQ_rms vs run
χ² / ndf 295.6 / 45
p0 0.006632 ± 6.907e−06
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

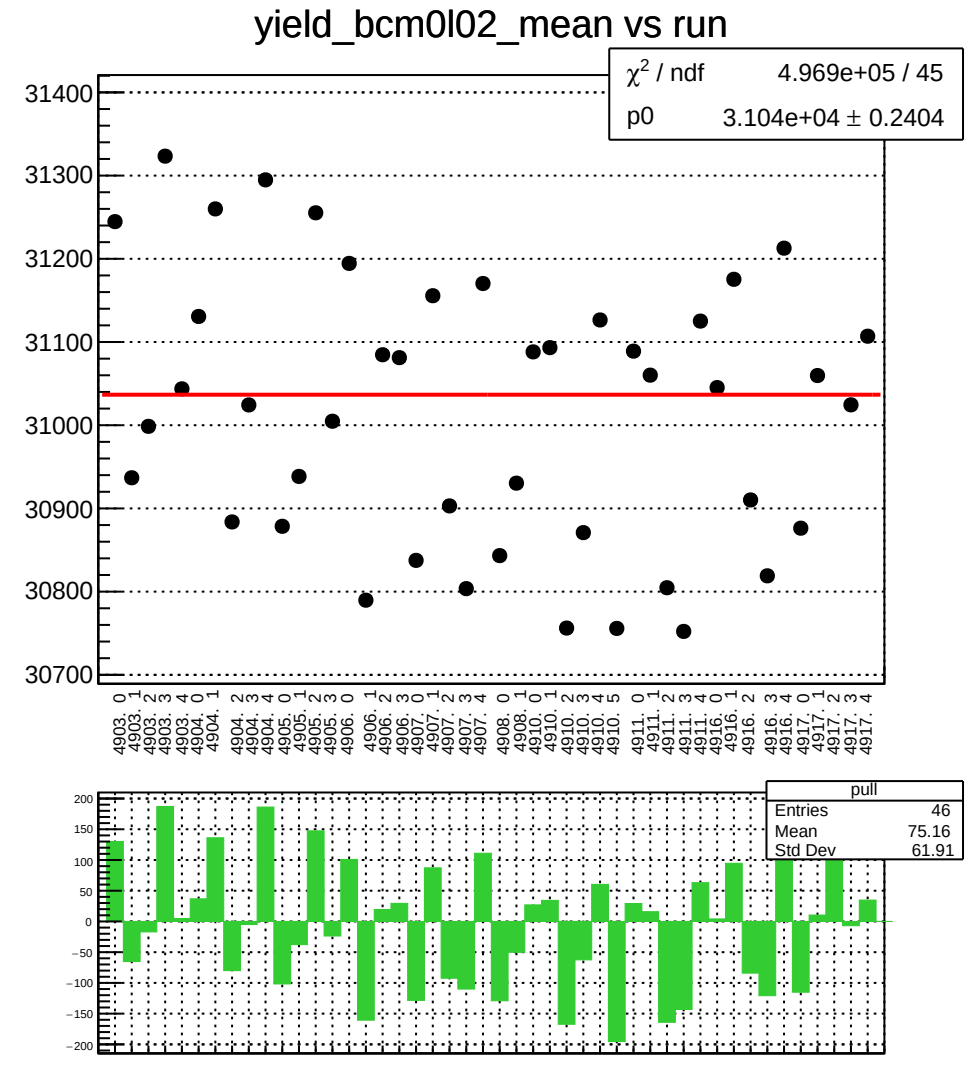

yield_cav4cQ_mean vs run
χ² / ndf 5.392e+05 / 45
p0 85.19 ± 0.0003679
86
85.8
85.6
85.4
85.2
85
84.8
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −251.8
Std Dev 262
300
200
100
0
−100

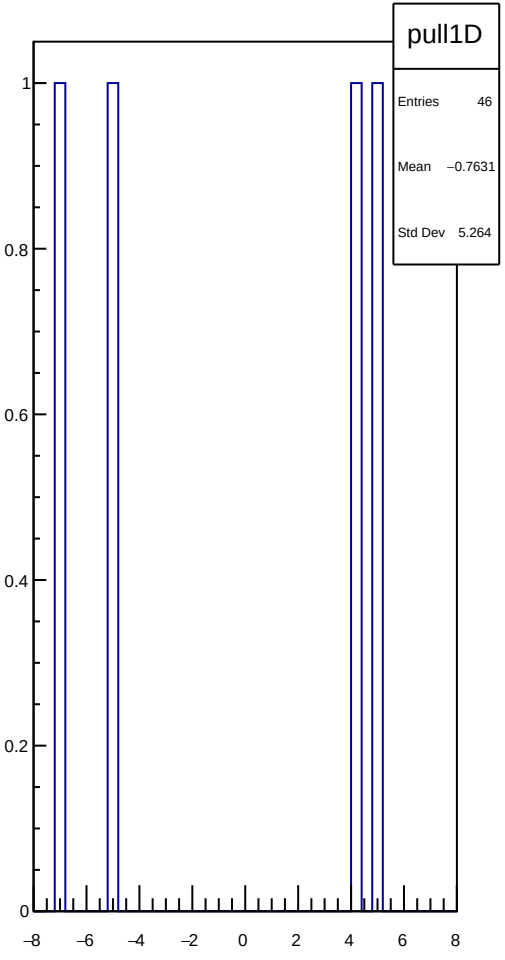

pull1D
Entries 46
Mean −2.142
Std Dev 3.221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

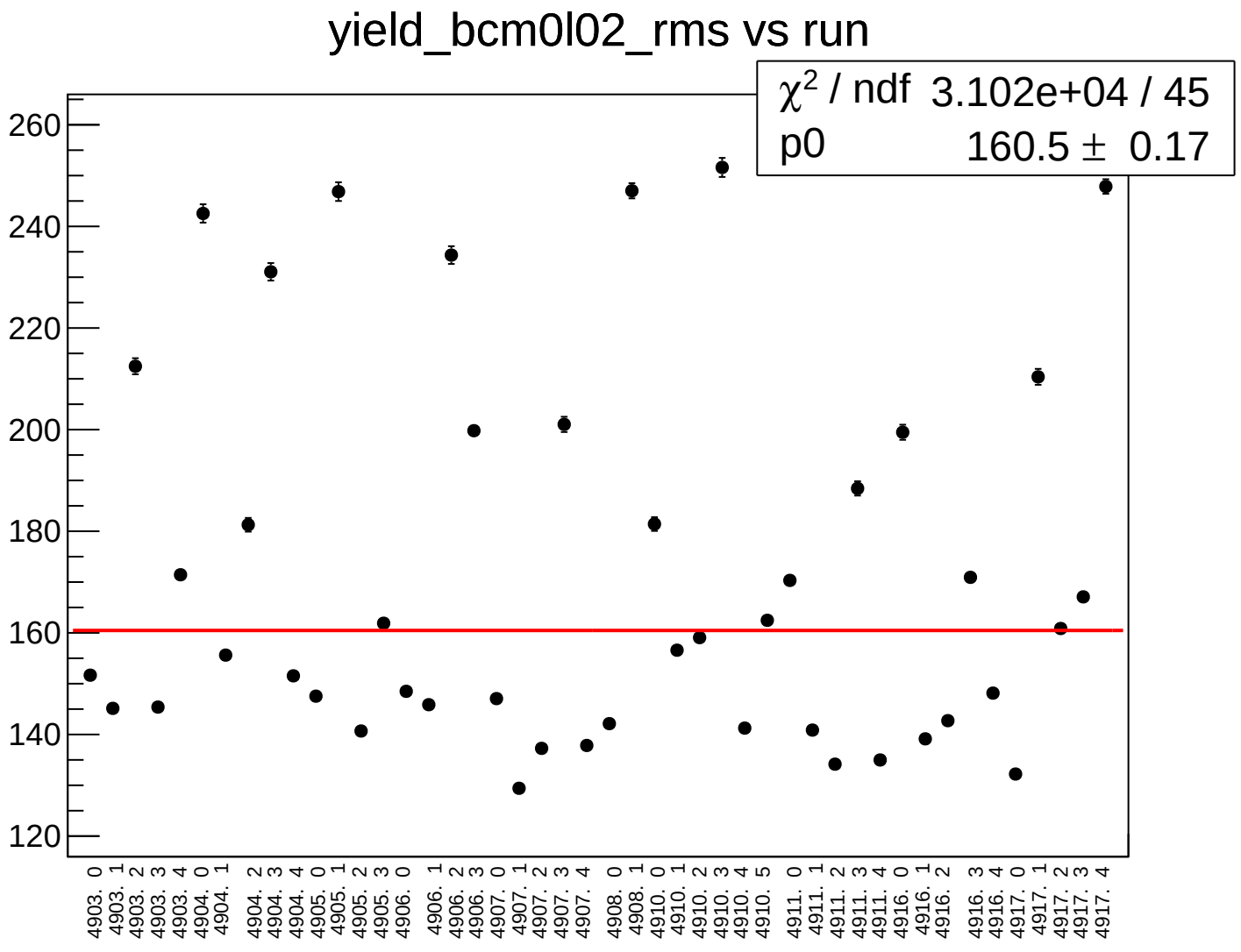

yield_cav4cQ_rms vs run
χ² / ndf 1.075e+04 / 45
p0 0.2484 ± 0.0002602
0.45
0.4
0.35
0.3
0.25
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

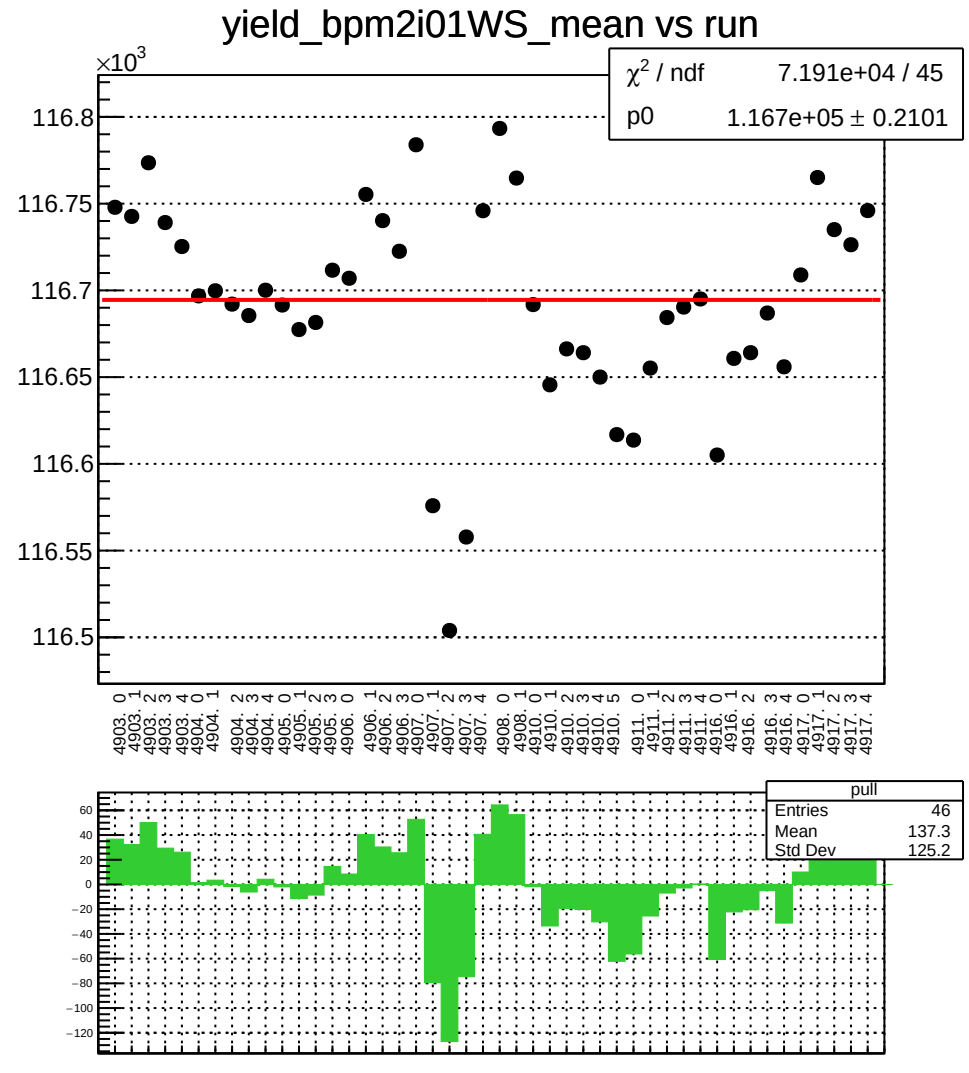

yield_cav4dQ_mean vs run
χ² / ndf 5.716e+04 / 45
p0 379 ± 9.546e−06
379.042
379.04
379.038
379.036
379.034
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 386.1
Std Dev 326.6
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean 0.2077
Std Dev 4.864
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

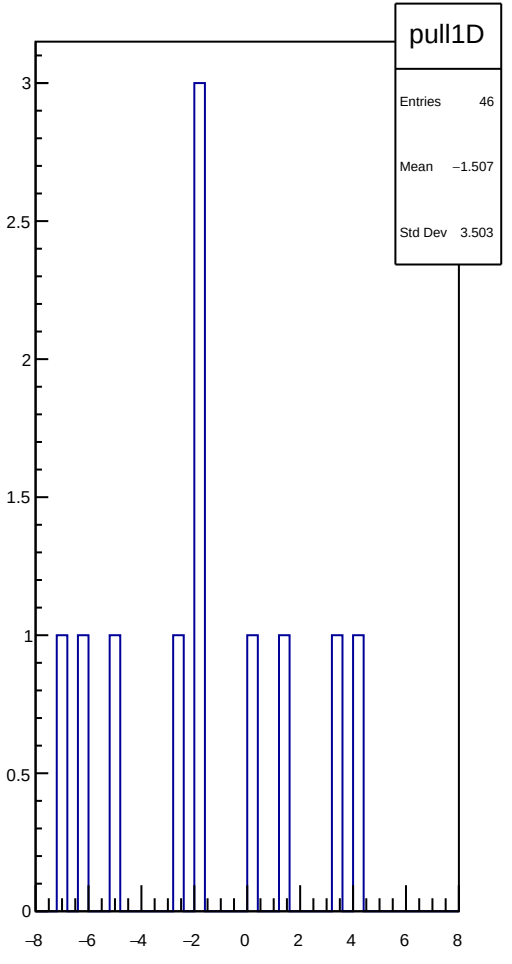

yield_cav4dQ_rms vs run
χ² / ndf 916.5 / 45
p0 0.00648 ± 6.75e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

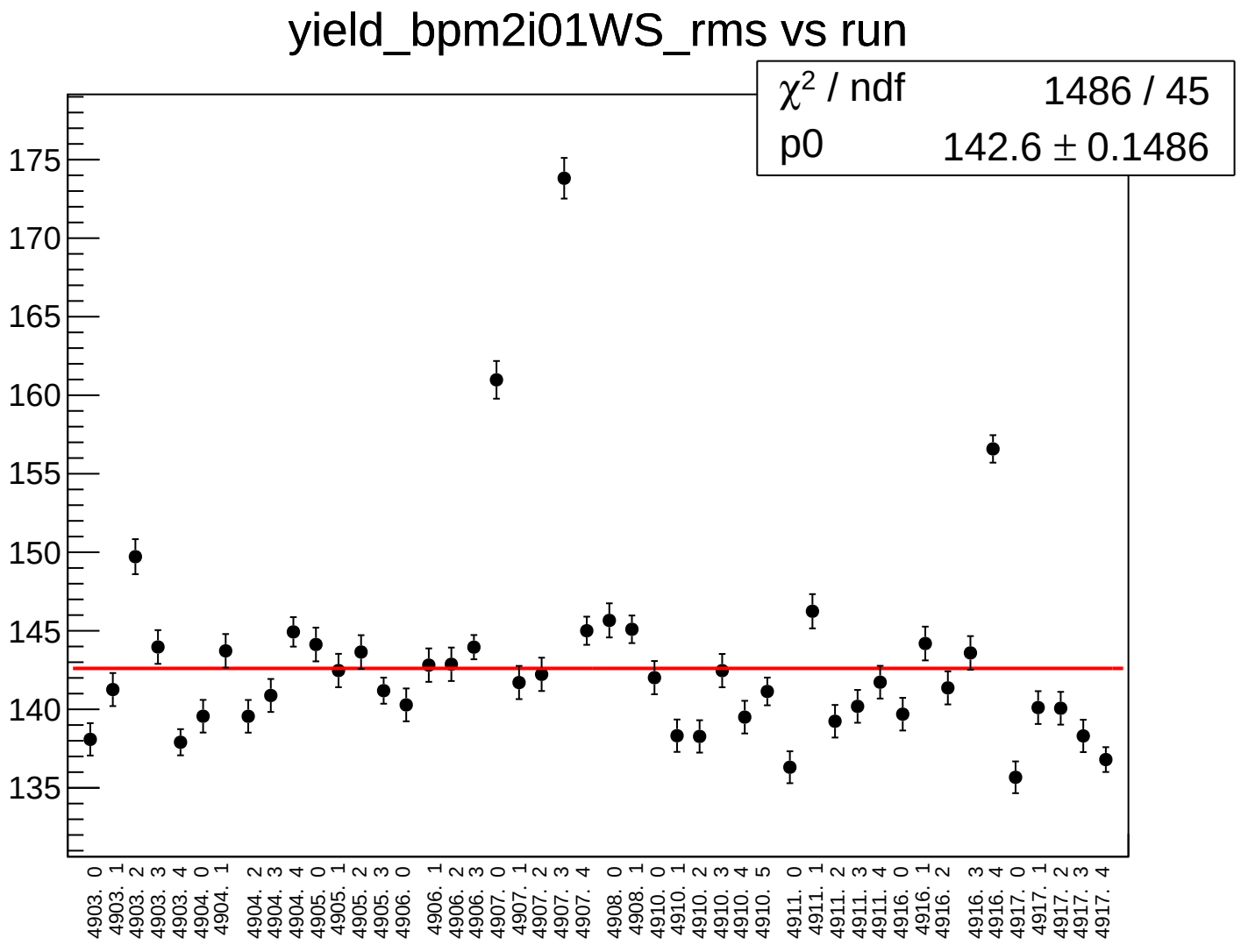

yield_bcm0l02_mean vs run
χ² / ndf 4.969e+05 / 45
p0 3.104e+04 ± 0.2404
31400
31300
31200
31100
31000
30900
30800
30700
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 75.16
Std Dev 61.91
200
150
100
50
0
−50
−100
−150
−200

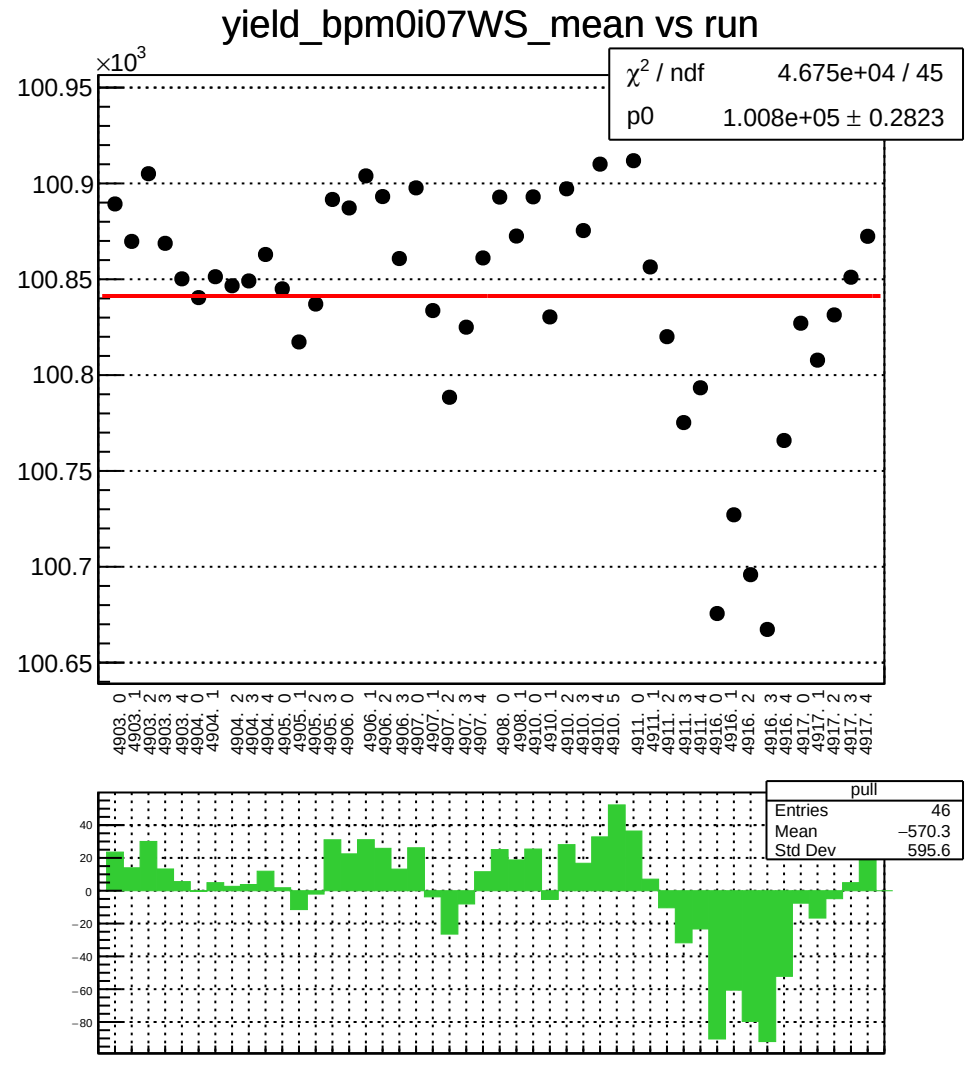

pull1D
Entries 46
Mean −0.7631
Std Dev 5.264
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

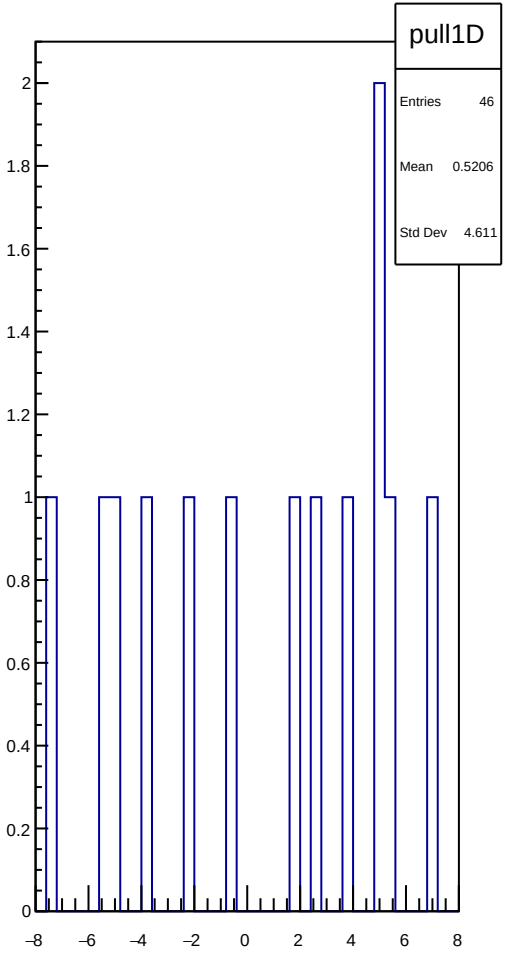

yield_bcm0l02_rms vs run
χ² / ndf 3.102e+04 / 45
p0 160.5 ± 0.17
260
240
220
200
180
160
140
120
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

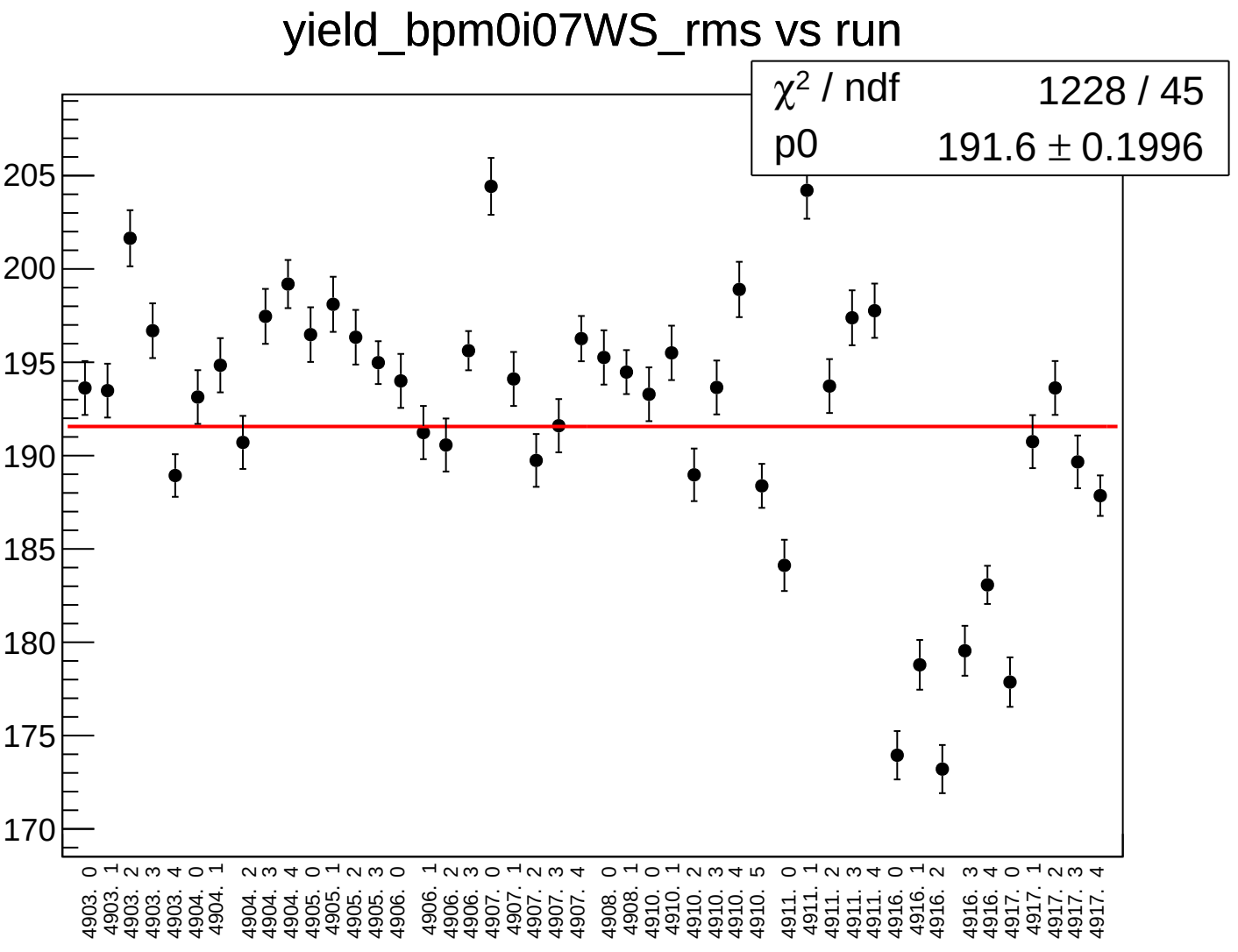

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.191e+04 / 45
p0 1.167e+05 ± 0.2101
116.8
116.75
116.7
116.65
116.6
116.55
116.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 137.3
Std Dev 125.2
60
40
20
0
−20
−40
−60
−80
−100
−120

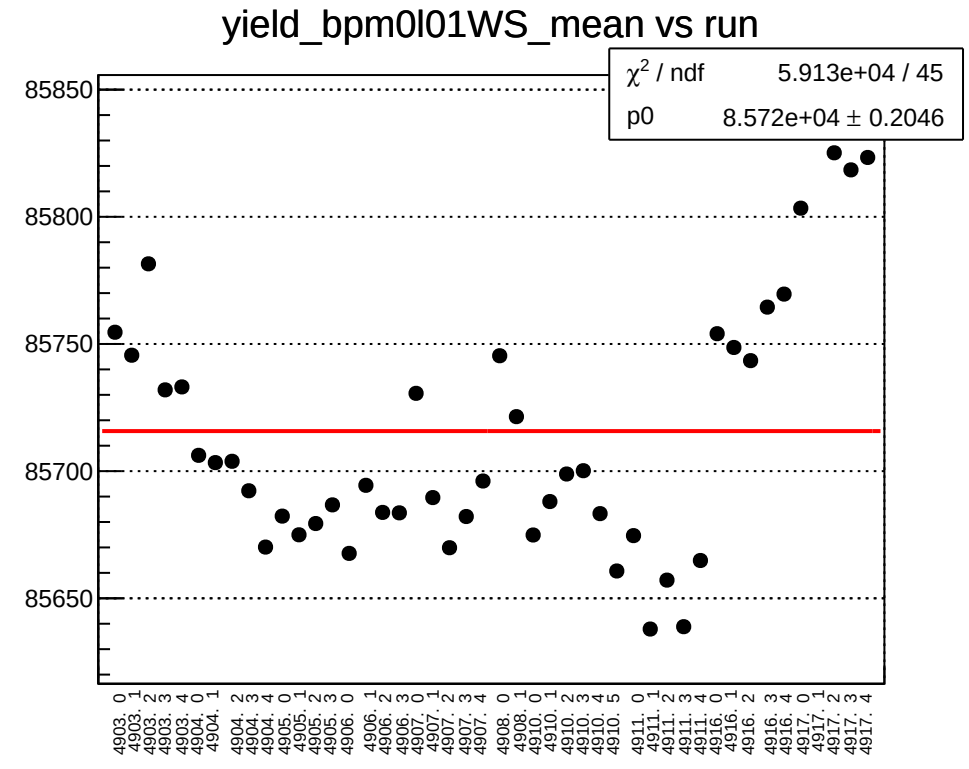

pull1D
Entries 46
Mean −1.507
Std Dev 3.503
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

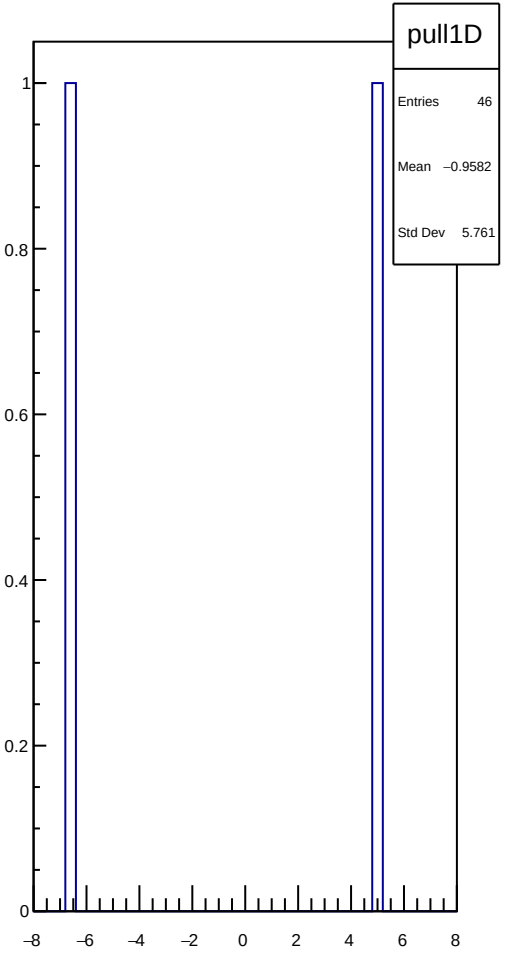

yield_bpm2i01WS_rms vs run
χ² / ndf 1486 / 45
p0 142.6 ± 0.1486
175
170
165
160
155
150
145
140
135
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

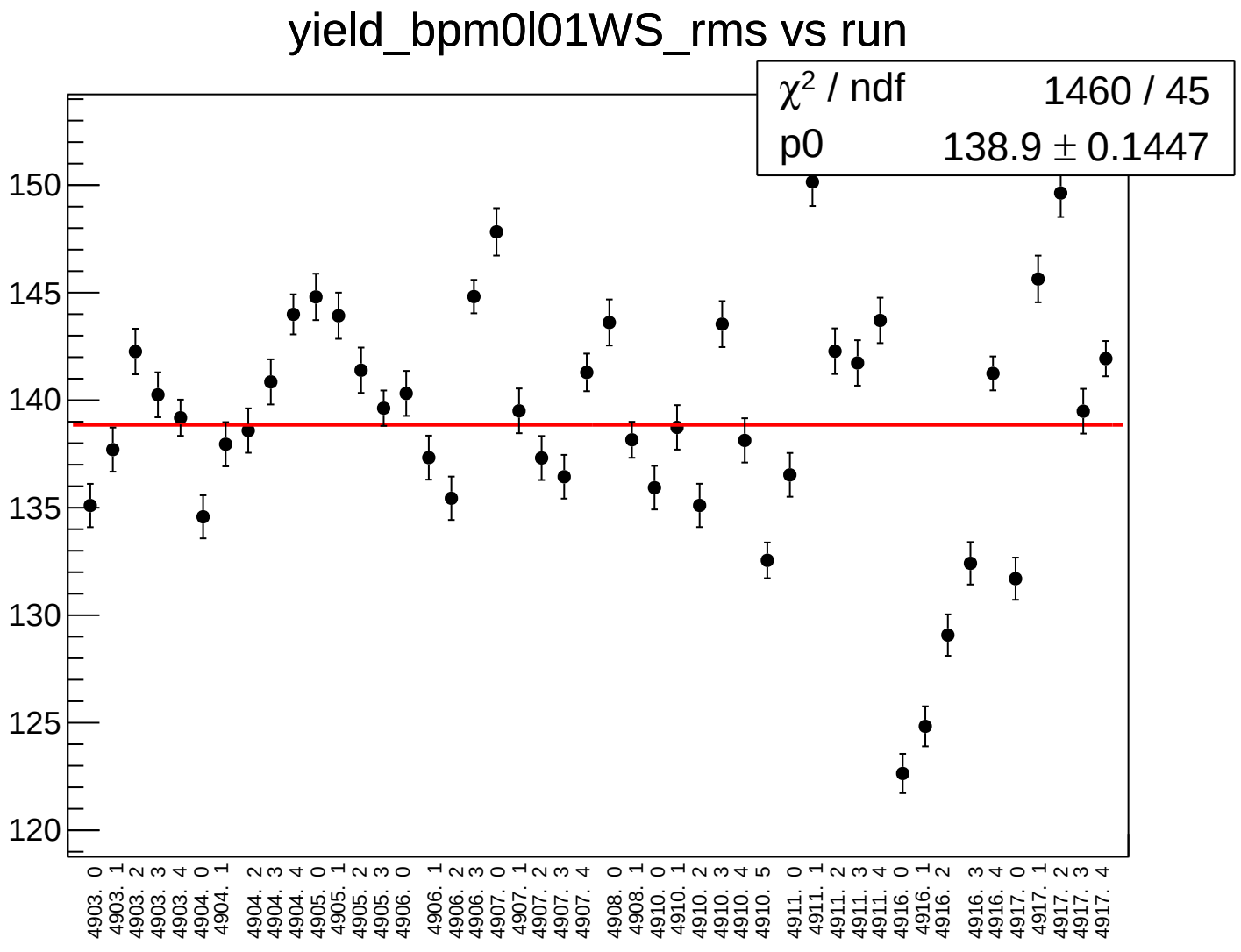

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.675e+04 / 45
p0 1.008e+05 ± 0.2823
100.95
100.9
100.85
100.8
100.75
100.7
100.65
pull
Entries 46
Mean −570.3
Std Dev 595.6
40
20
0
−20
−40
−60
−80

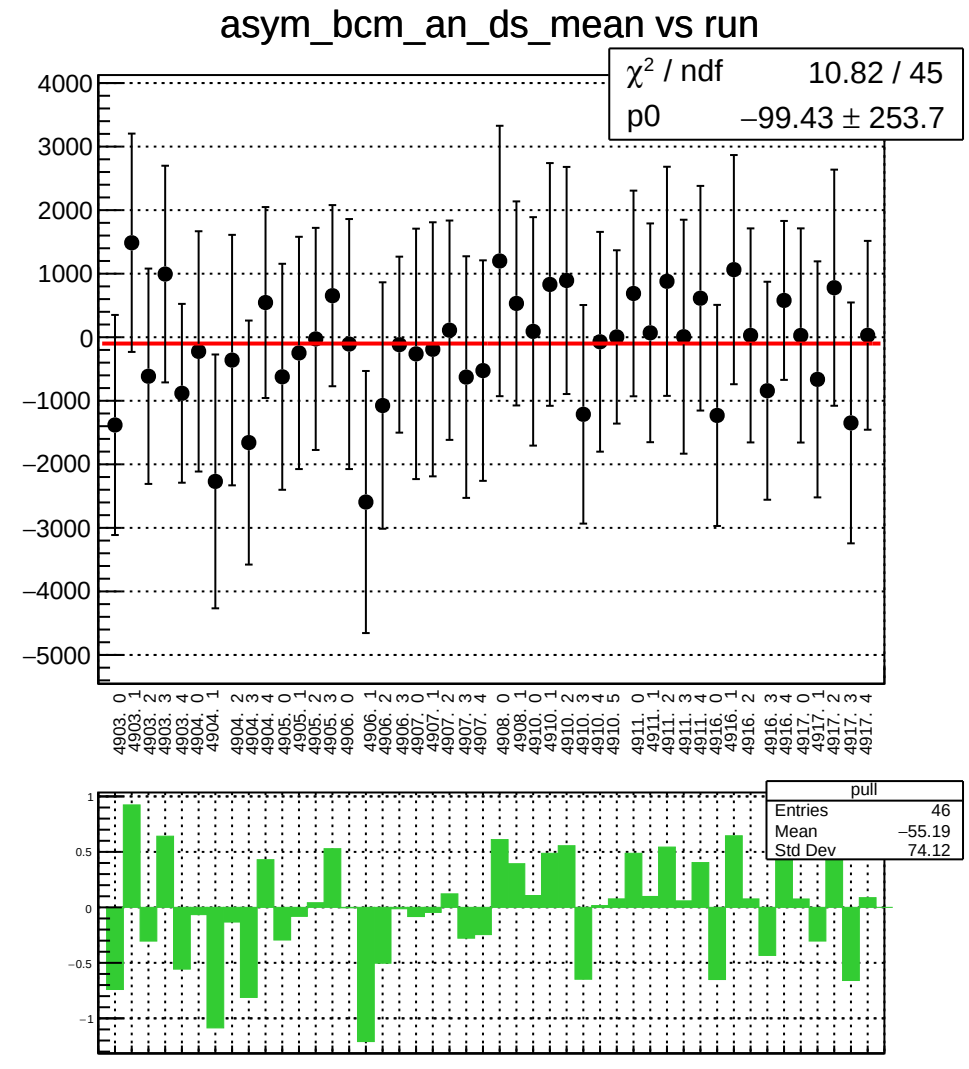

pull1D
Entries 46
Mean 0.5206
Std Dev 4.611
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

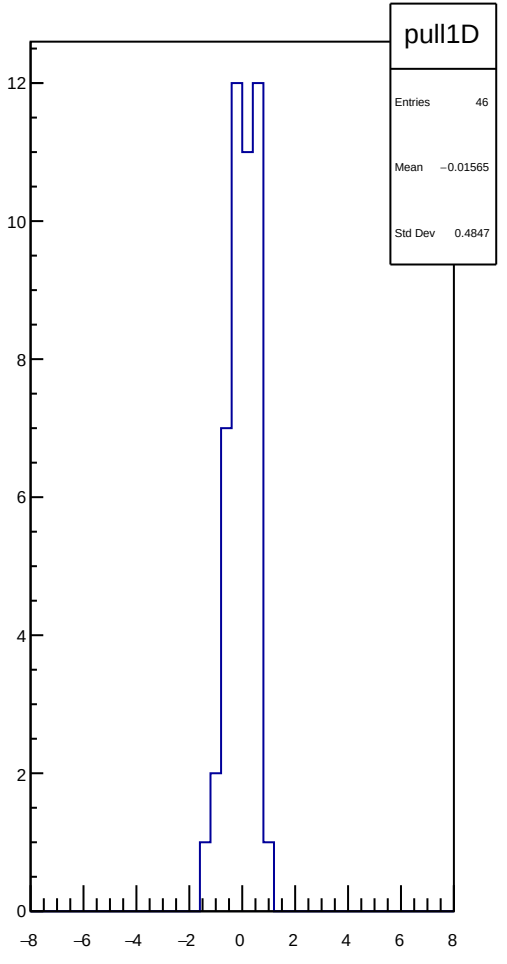

yield_bpm0i07WS_rms vs run
χ² / ndf 1228 / 45
p0 191.6 ± 0.1996
205
200
195
190
185
180
175
170
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

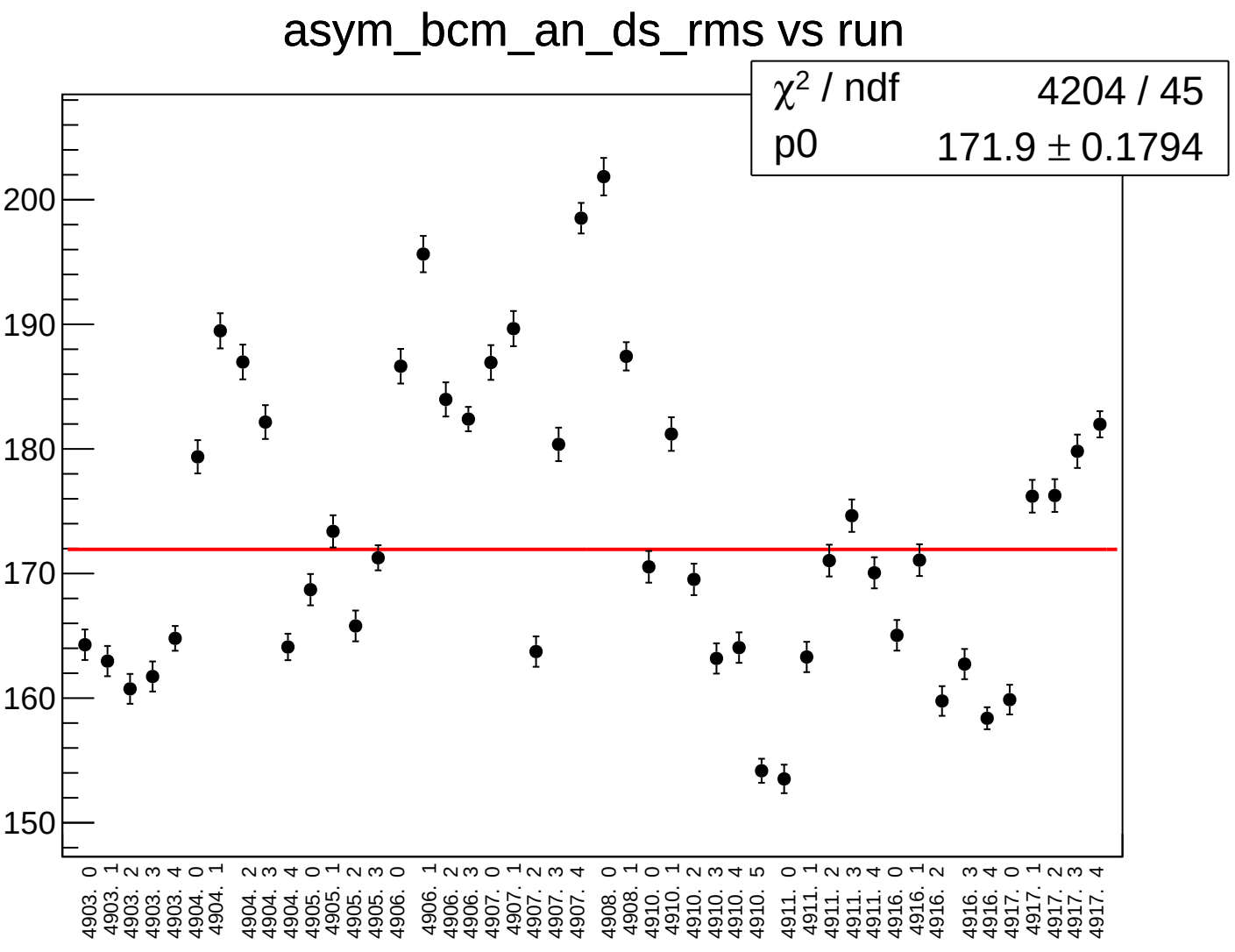

yield_bpm0l01WS_mean vs run
χ² / ndf 5.913e+04 / 45
p0 8.572e+04 ± 0.2046
85850
85800
85750
85700
85650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −396.1
Std Dev 431
100
80
60
40
20
0
−20
−40

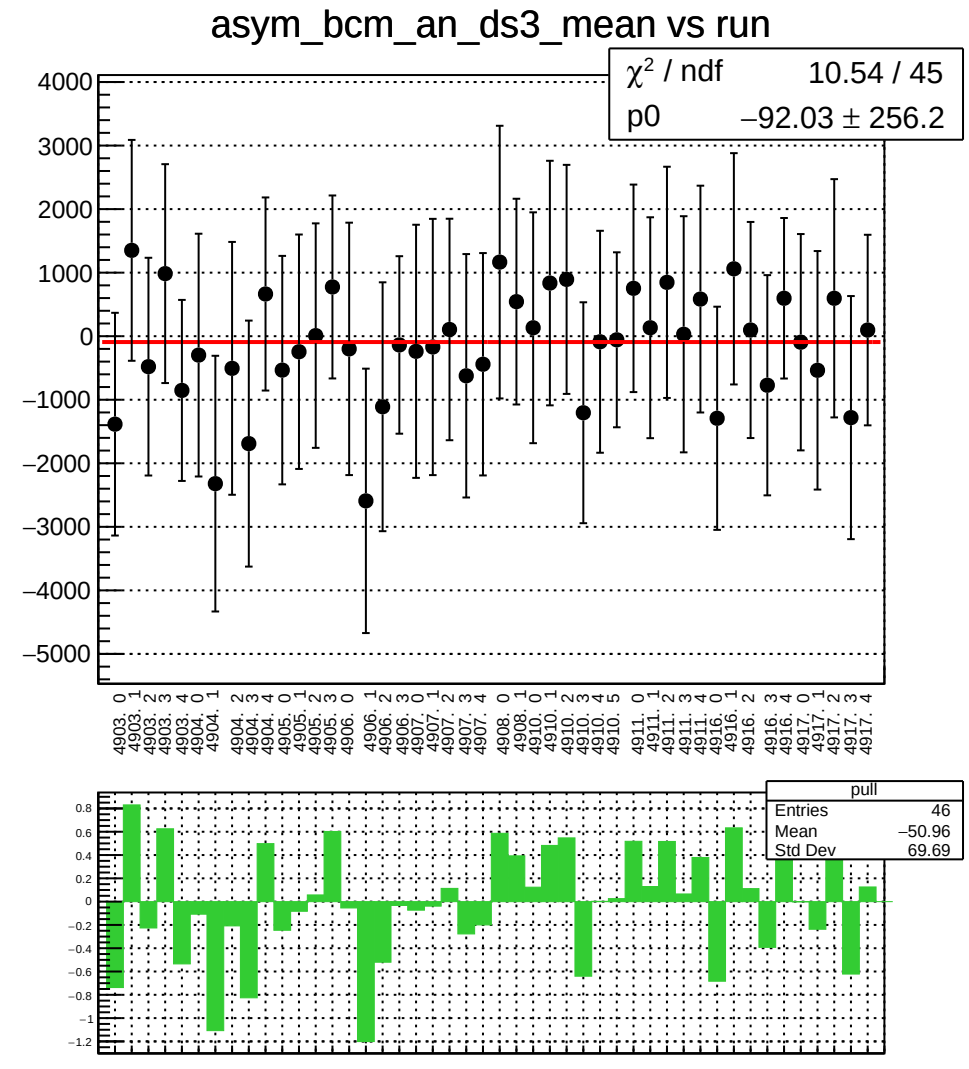

pull1D
Entries 46
Mean −0.9582
Std Dev 5.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

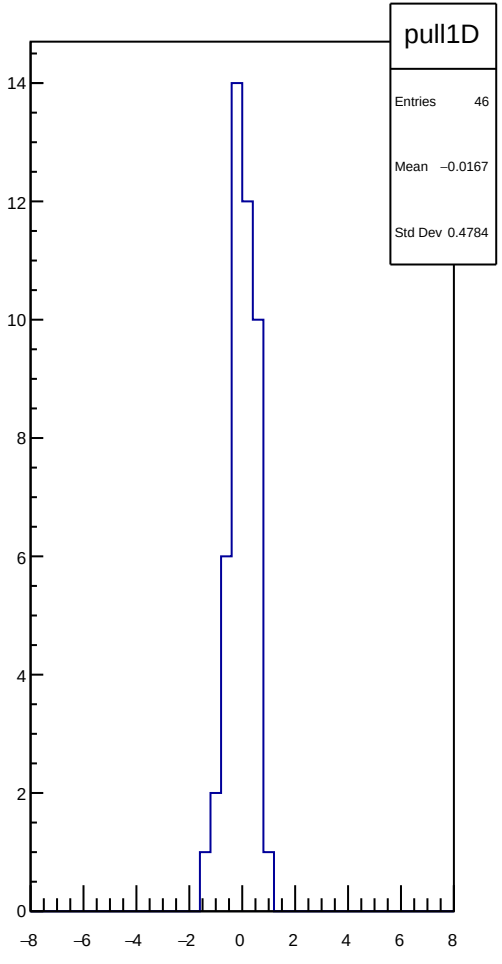

yield_bpm0l01WS_rms vs run
χ² / ndf 1460 / 45
p0 138.9 ± 0.1447
150
145
140
135
130
125
120
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

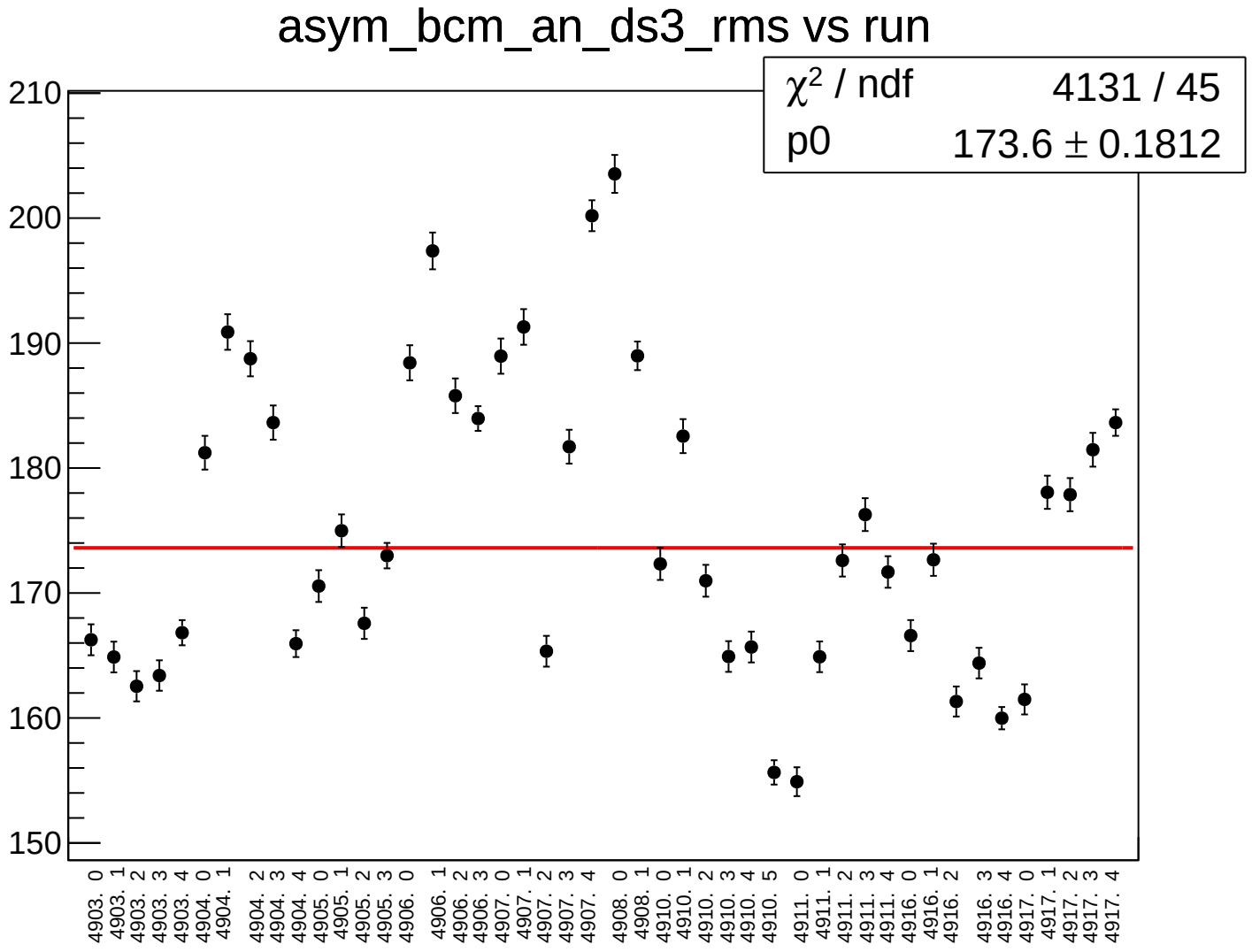

asym_bcm_an_ds_mean vs run
χ² / ndf 10.82 / 45
p0 −99.43 ± 253.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −55.19
Std Dev 74.12
1
0.5
0
−0.5
−1

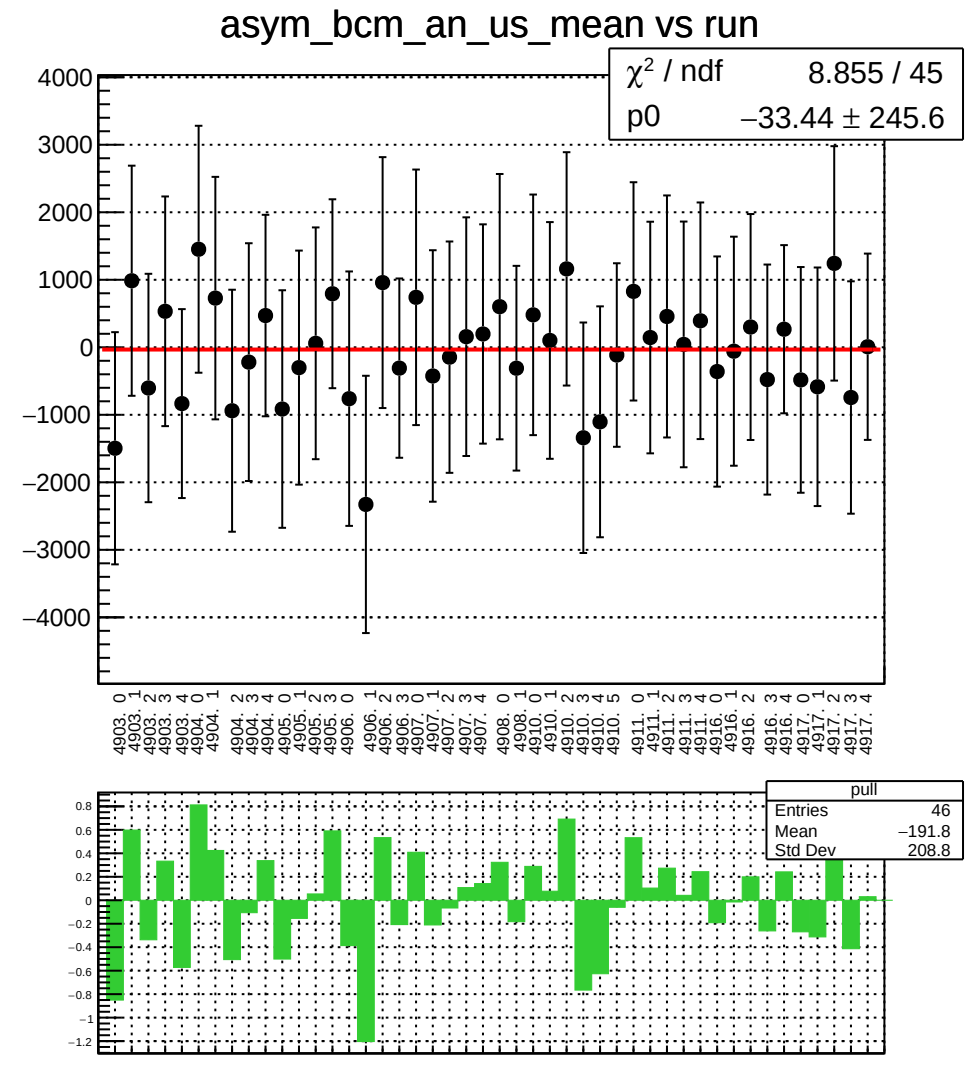

pull1D
Entries 46
Mean −0.01565
Std Dev 0.4847
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

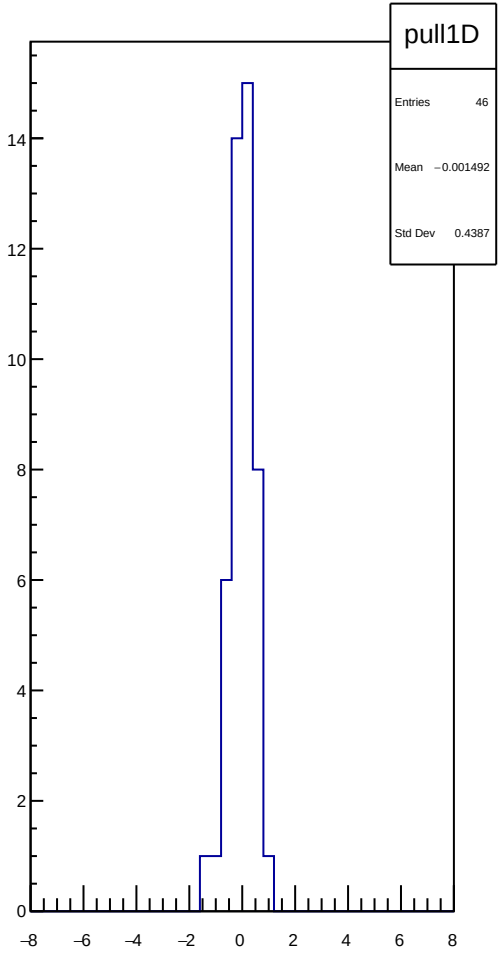

asym_bcm_an_ds_rms vs run
χ² / ndf 4204 / 45
p0 171.9 ± 0.1794
200
190
180
170
160
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

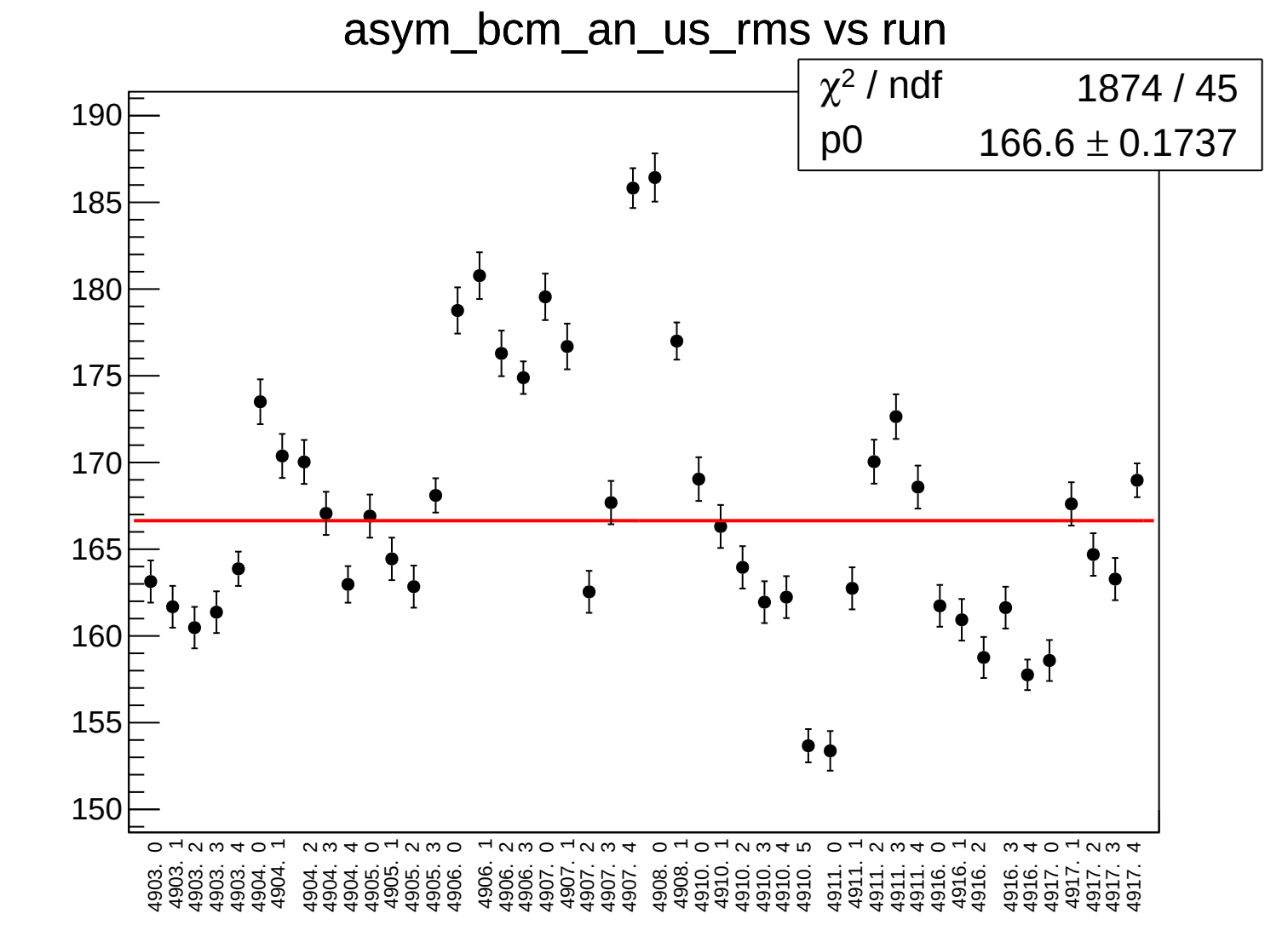

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.54 / 45
p0 −92.03 ± 256.2
pull
Entries 46
Mean −50.96
Std Dev 69.69

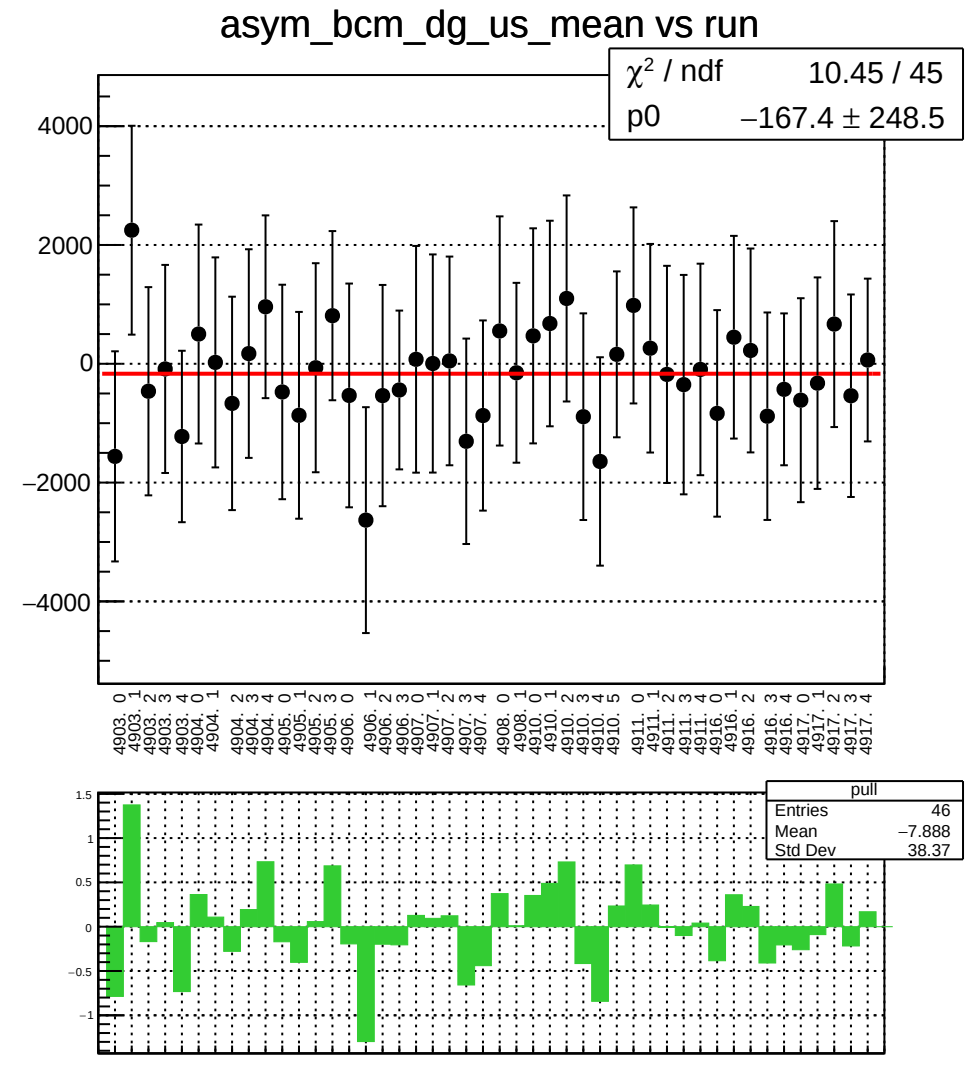

pull1D
Entries 46
Mean −0.0167
Std Dev 0.4784

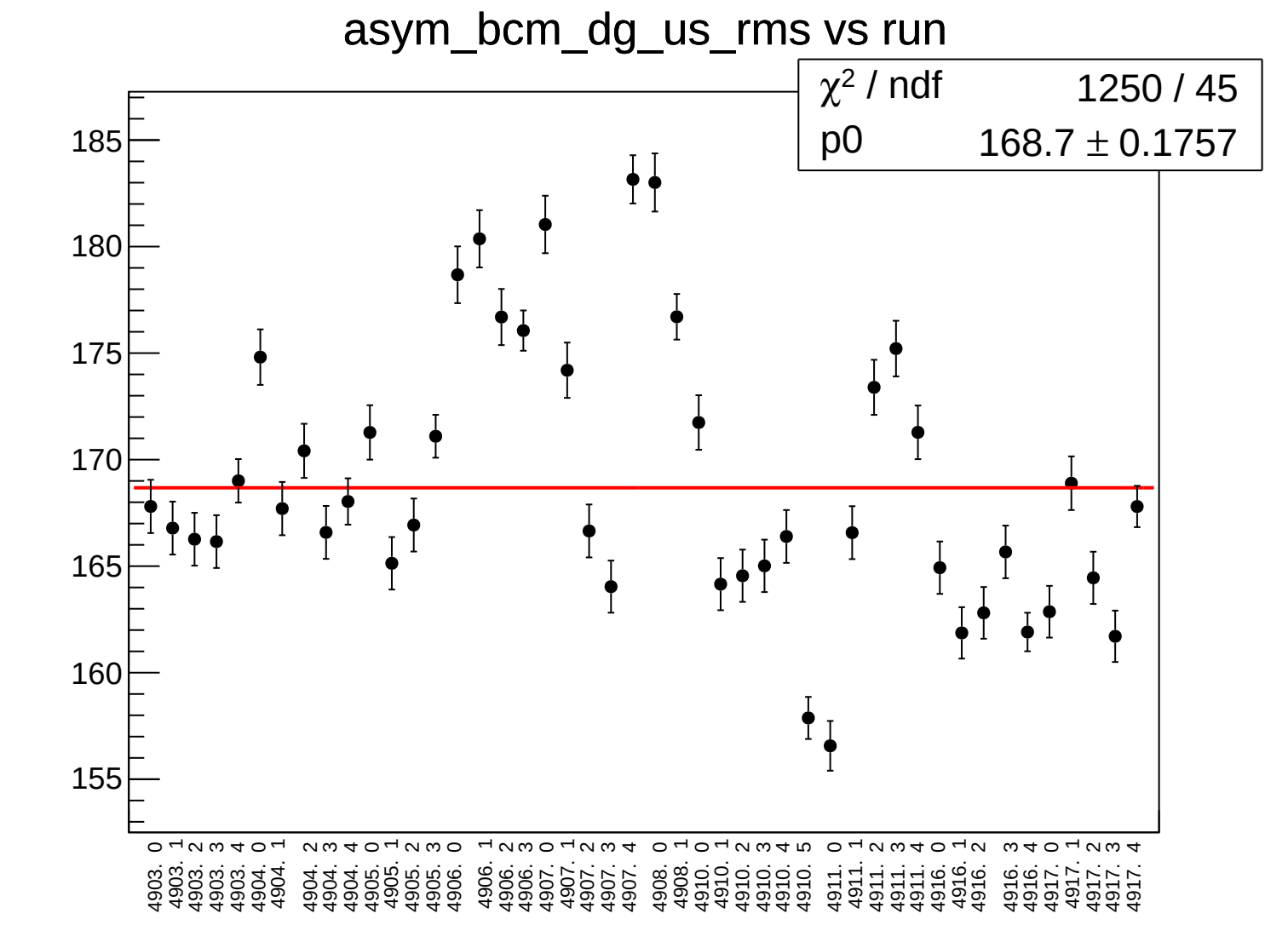

asym_bcm_an_ds3_rms vs run
χ² / ndf 4131 / 45
p0 173.6 ± 0.1812
210
200
190
180
170
160
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

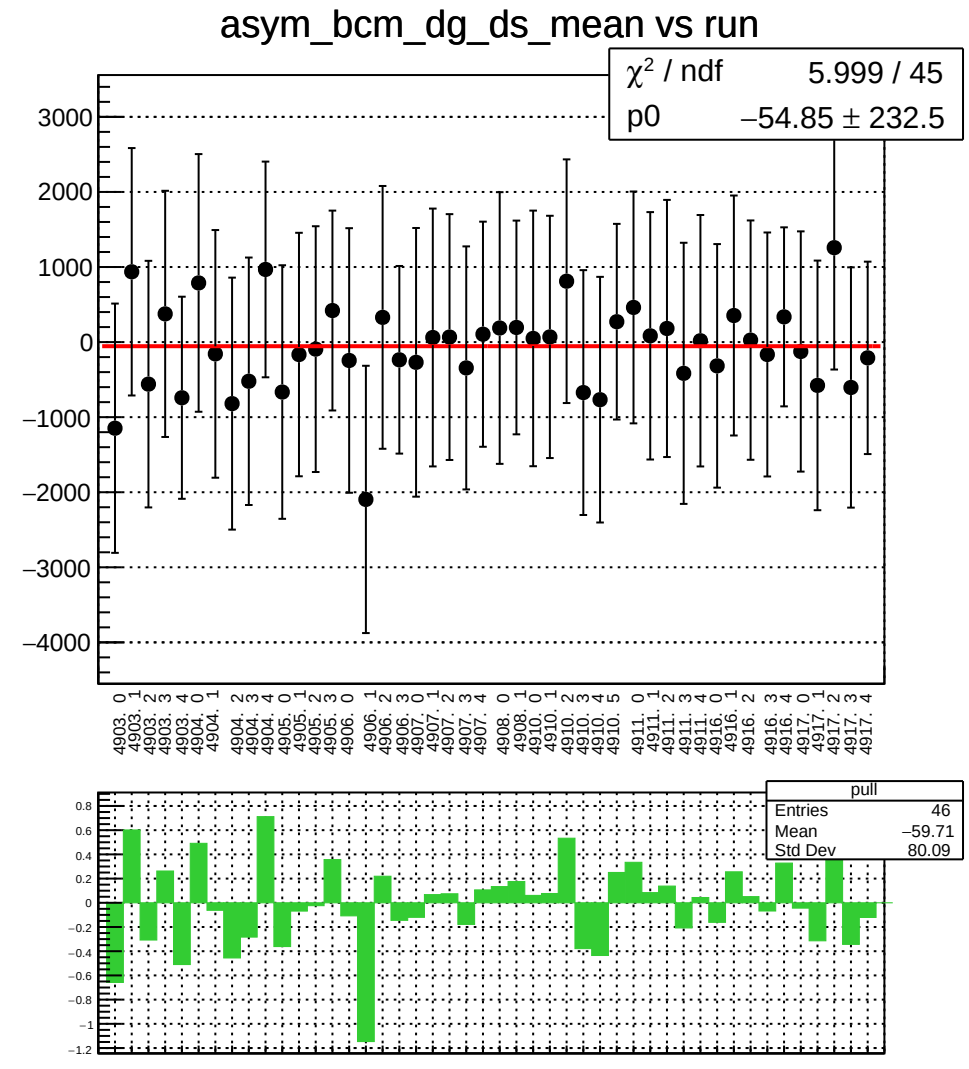

asym_bcm_an_us_mean vs run
χ² / ndf 8.855 / 45
p0 −33.44 ± 245.6
pull
Entries 46
Mean −191.8
Std Dev 208.8

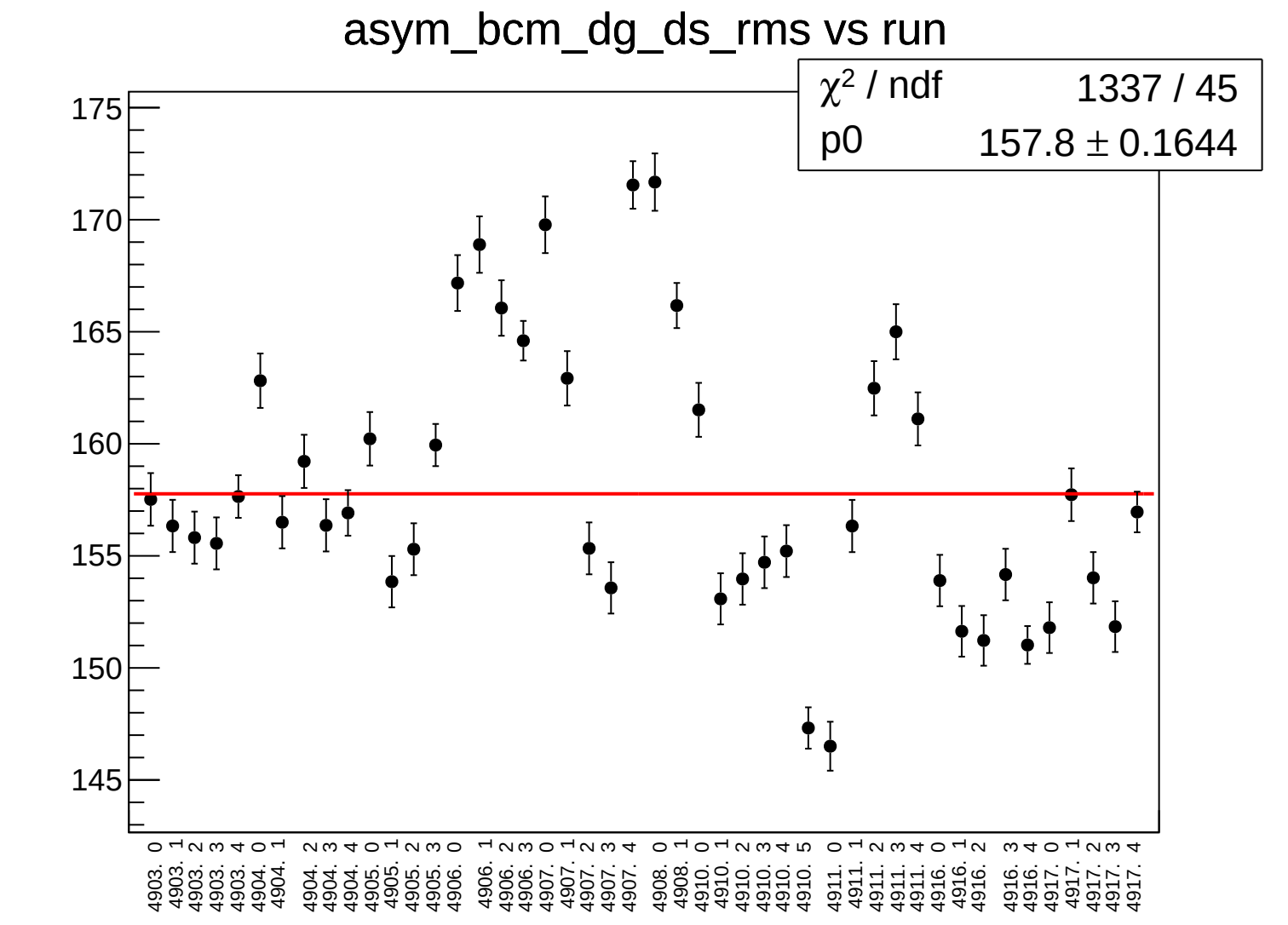

pull1D
Entries 46
Mean −0.001492
Std Dev 0.4387

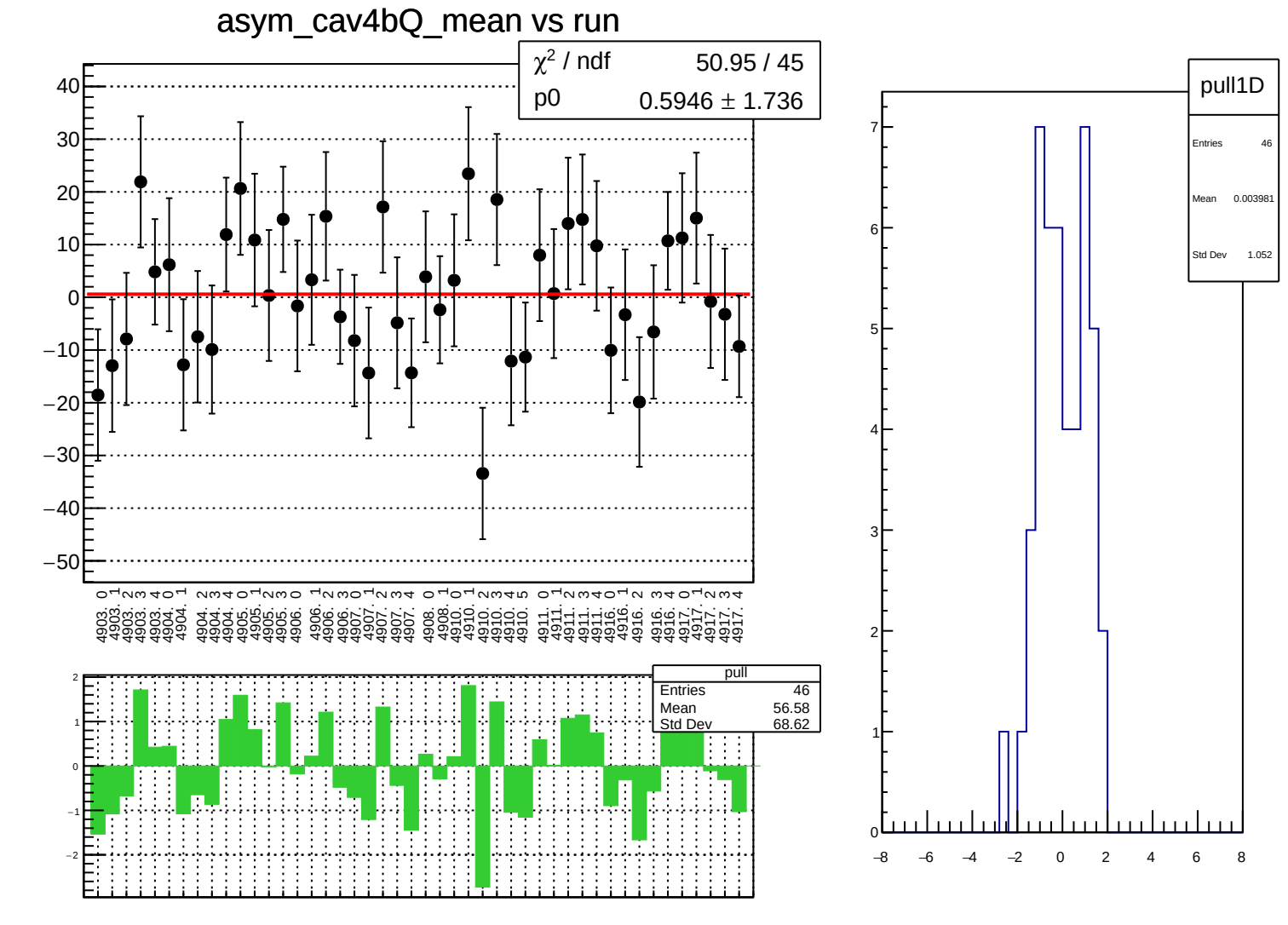

asym_bcm_an_us_rms vs run
χ² / ndf 1874 / 45
p0 166.6 ± 0.1737
190
185
180
175
170
165
160
155
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

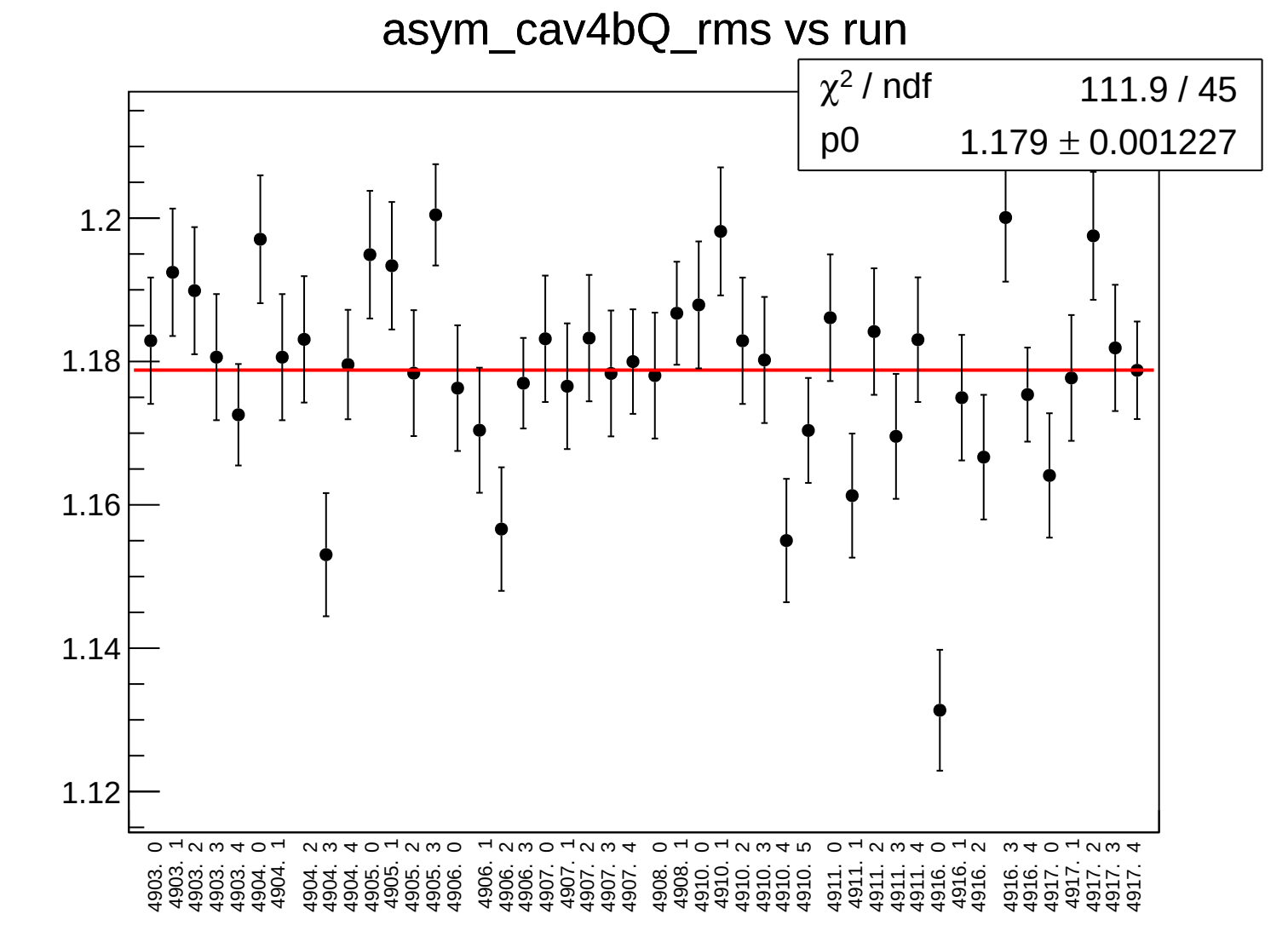

asym_bcm_dg_us_mean vs run
χ² / ndf 10.45 / 45
p0 −167.4 ± 248.5
4000
2000
0
−2000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −7.888
Std Dev 38.37
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.003124
Std Dev 0.4766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

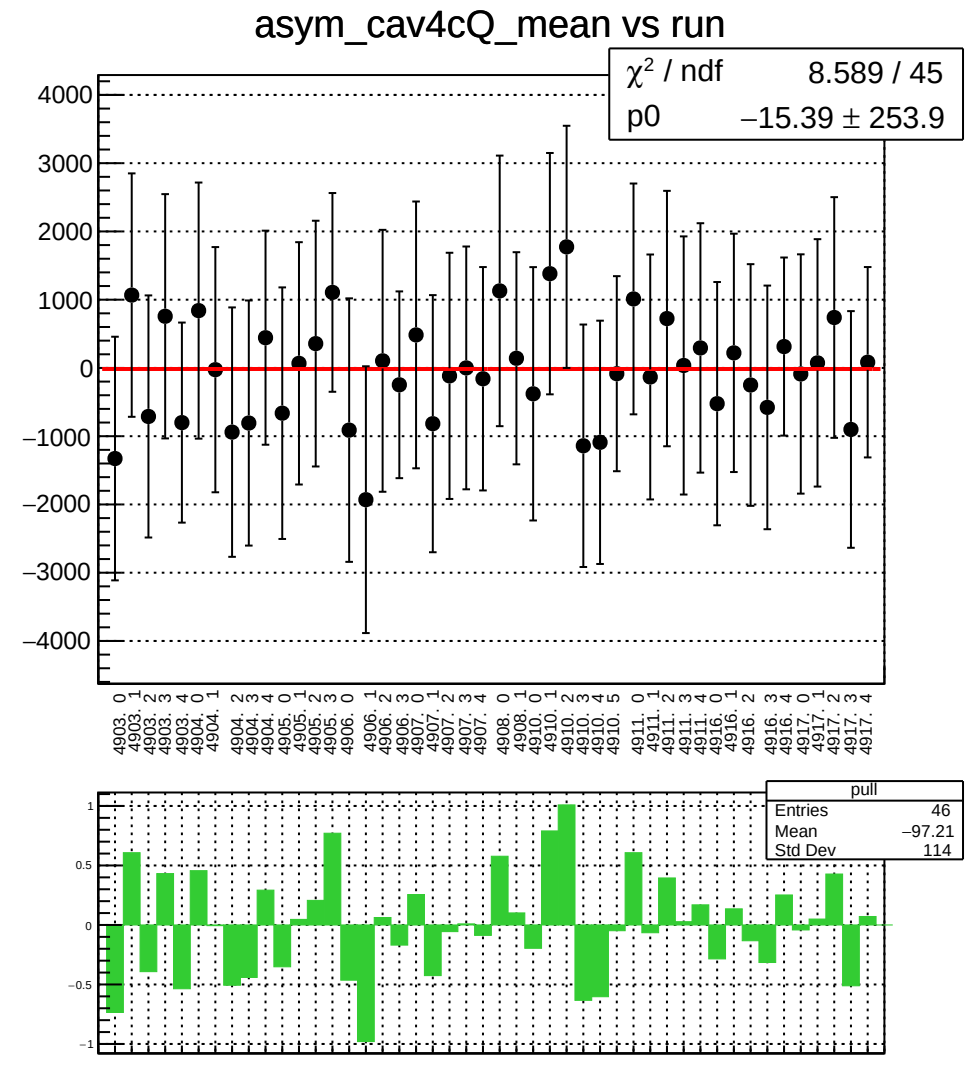

asym_bcm_dg_us_rms vs run
χ² / ndf 1250 / 45
p0 168.7 ± 0.1757
185
180
175
170
165
160
155
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

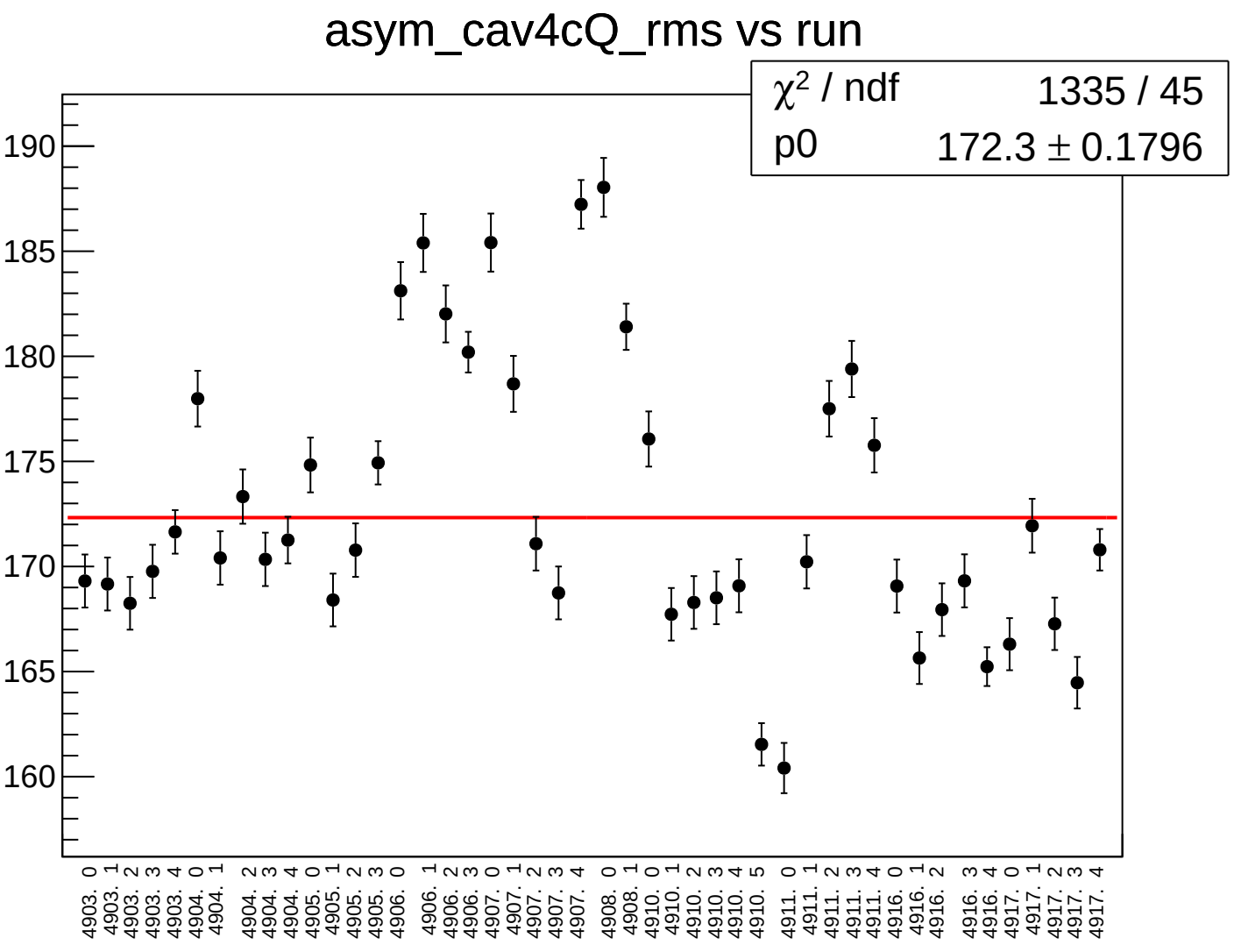

asym_bcm_dg_ds_mean vs run
χ² / ndf 5.999 / 45
p0 −54.85 ± 232.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −59.71
Std Dev 80.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 46
Mean −0.007281
Std Dev 0.3611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

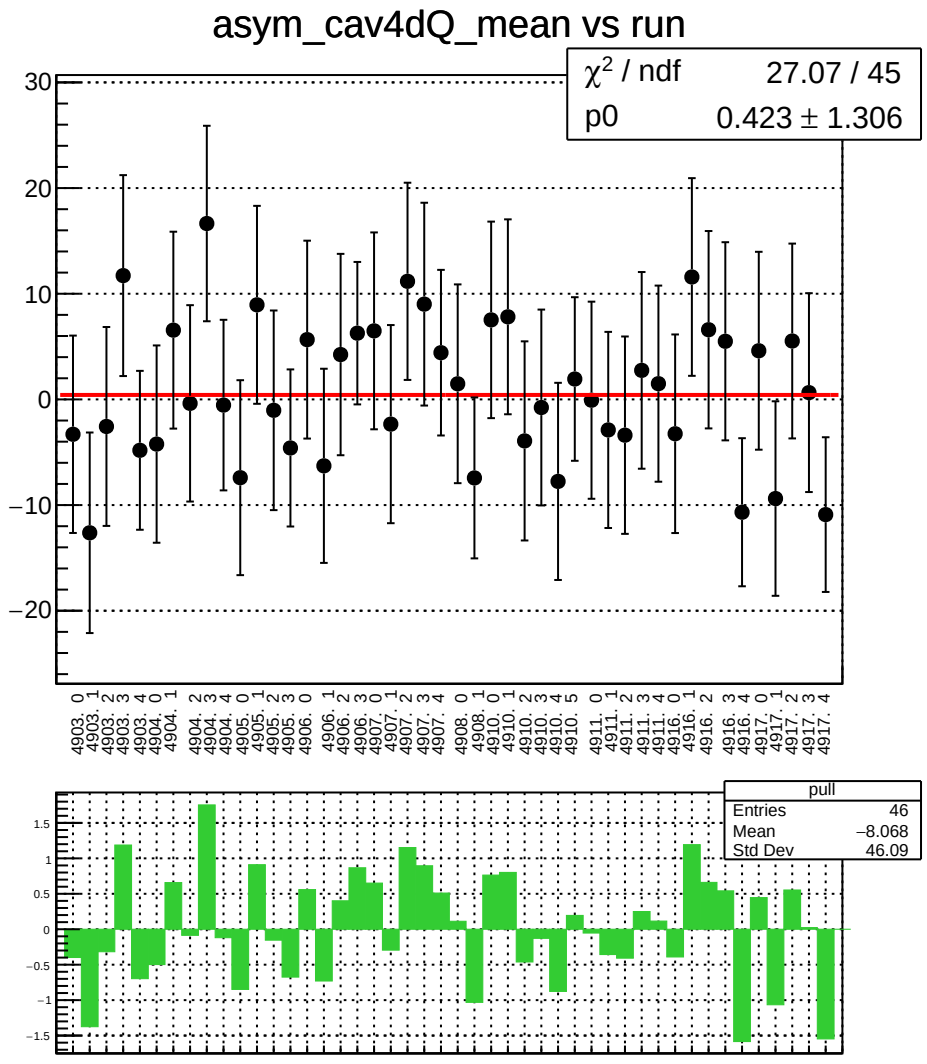

asym_bcm_dg_ds_rms vs run
χ² / ndf 1337 / 45
p0 157.8 ± 0.1644
175
170
165
160
155
150
145
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

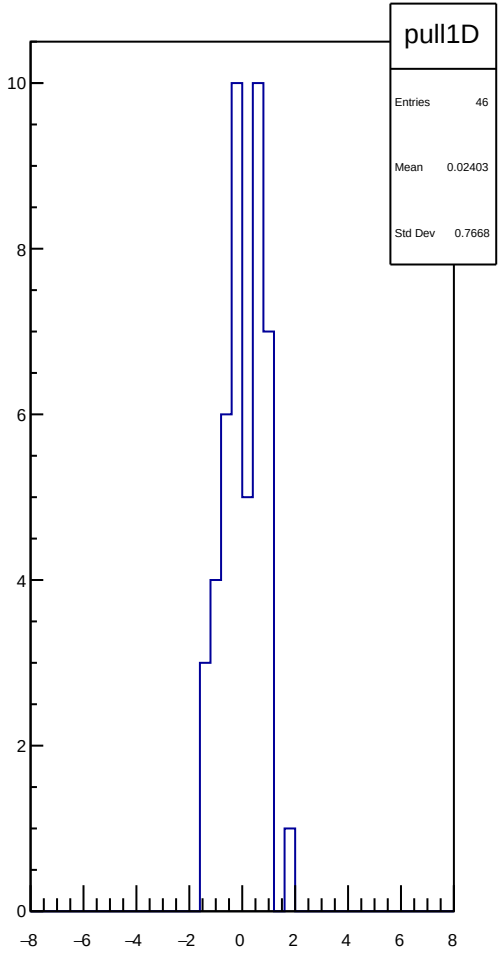

asym_cav4bQ_mean vs run
χ² / ndf 50.95 / 45
p0 0.5946 ± 1.736
pull
Entries 46
Mean 56.58
Std Dev 68.62
pull1D
Entries 46
Mean 0.003981
Std Dev 1.052

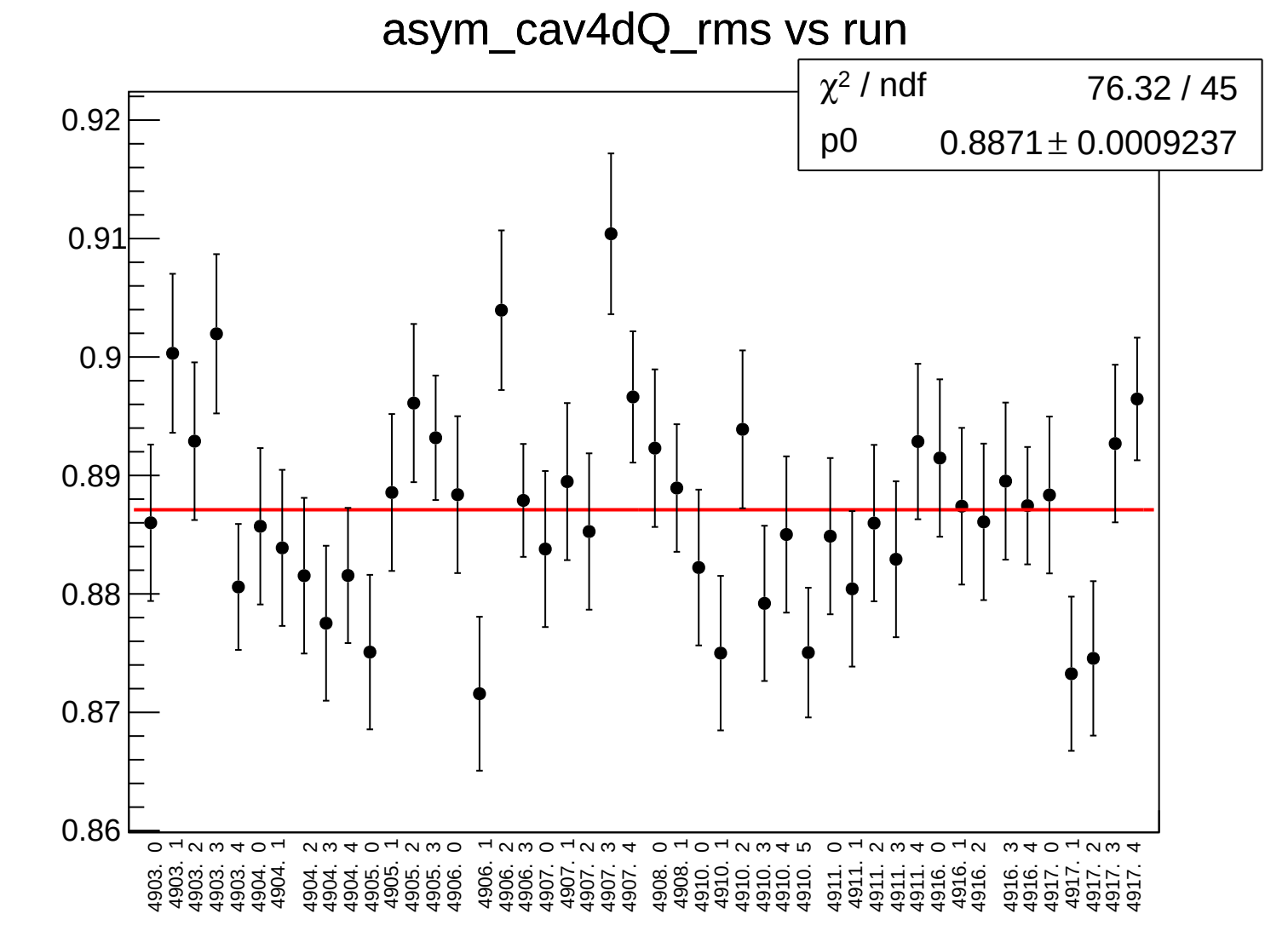

asym_cav4bQ_rms vs run
χ² / ndf 111.9 / 45
p0 1.179 ± 0.001227
1.2
1.18
1.16
1.14
1.12
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

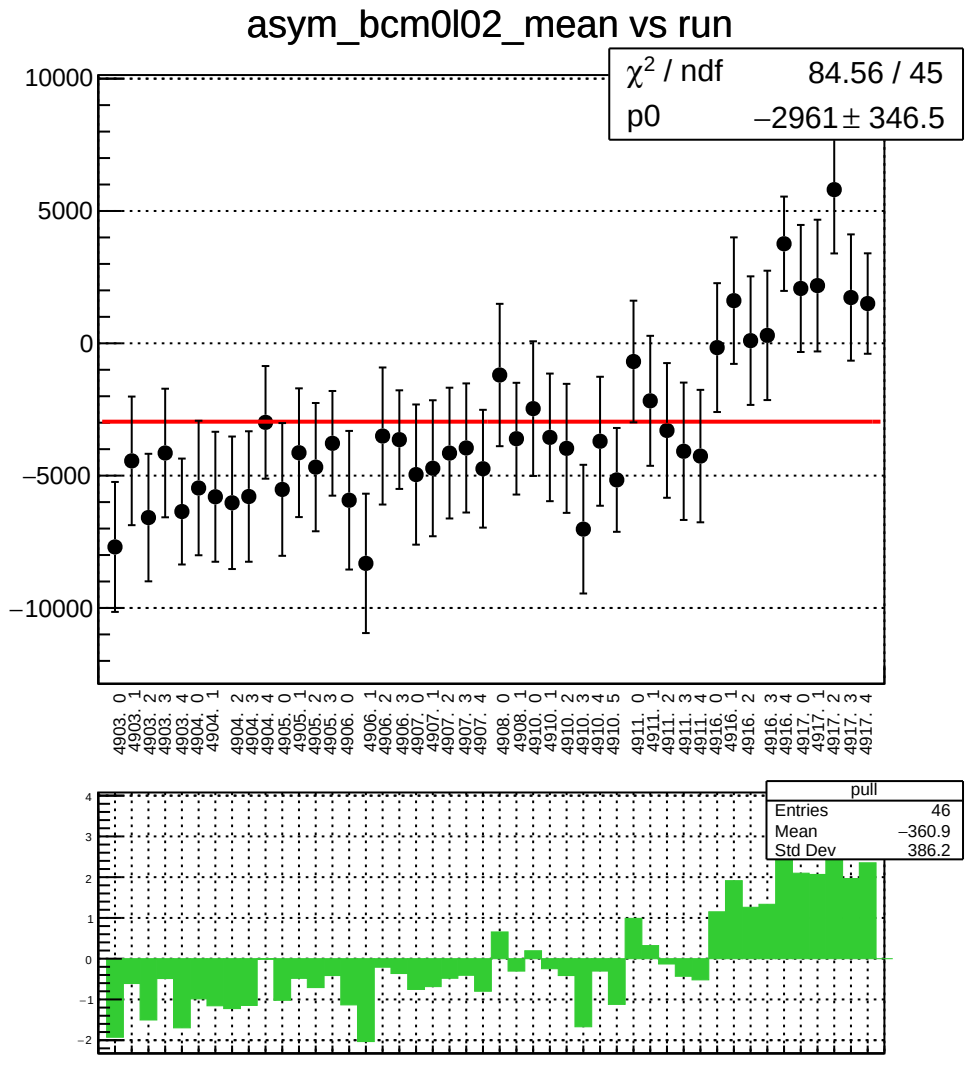

asym_cav4cQ_mean vs run
χ² / ndf 8.589 / 45
p0 −15.39 ± 253.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −97.21
Std Dev 114
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.004985
Std Dev 0.4321
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

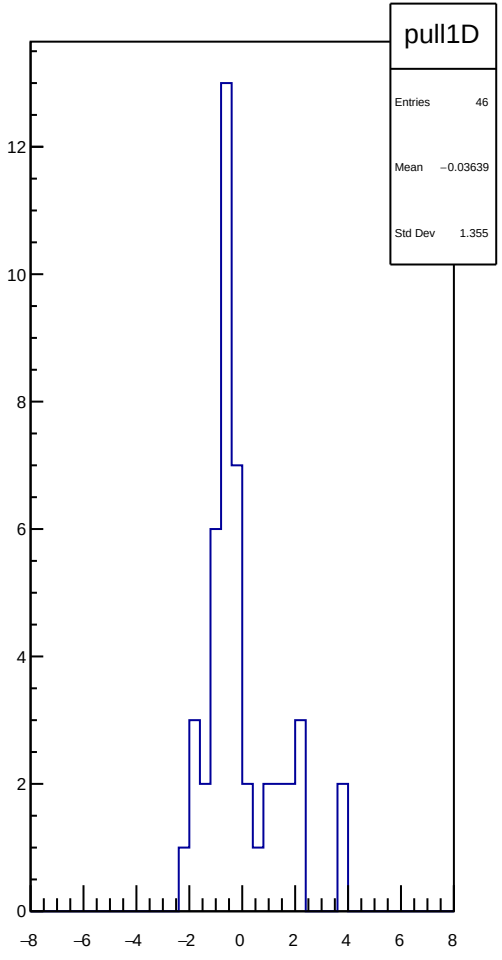

asym_cav4cQ_rms vs run
χ² / ndf 1335 / 45
p0 172.3 ± 0.1796
190
185
180
175
170
165
160
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

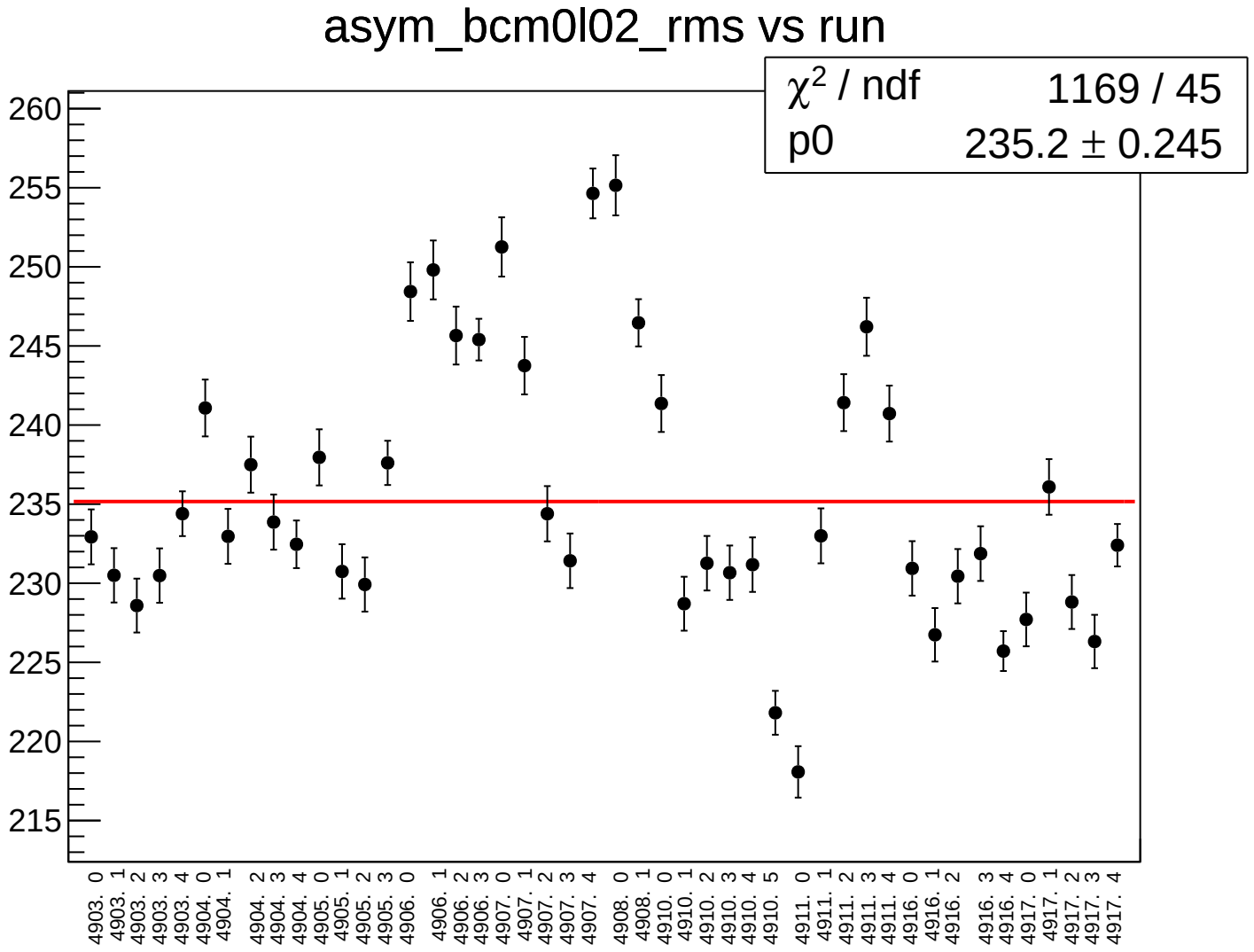

asym_cav4dQ_mean vs run
χ² / ndf 27.07 / 45
p0 0.423 ± 1.306
pull
Entries 46
Mean −8.068
Std Dev 46.09

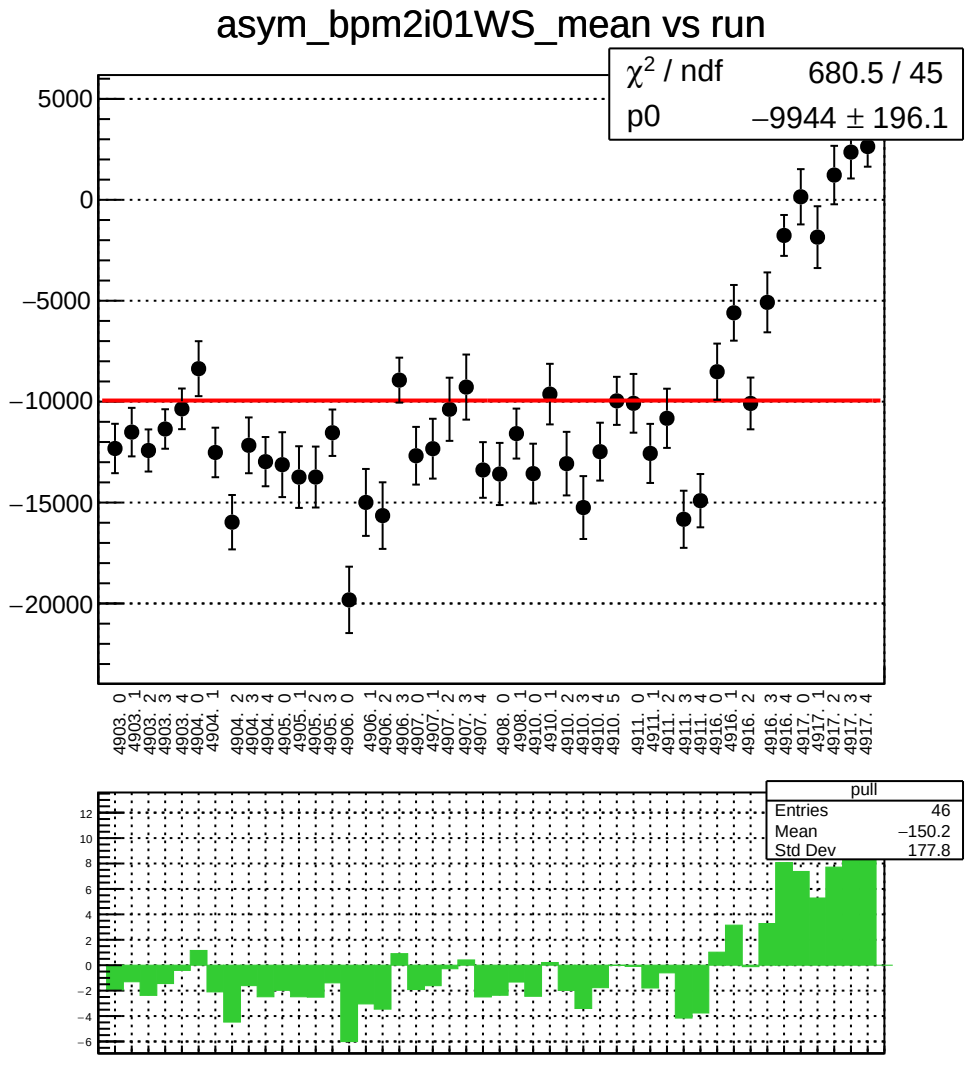

pull1D
Entries 46
Mean 0.02403
Std Dev 0.7668

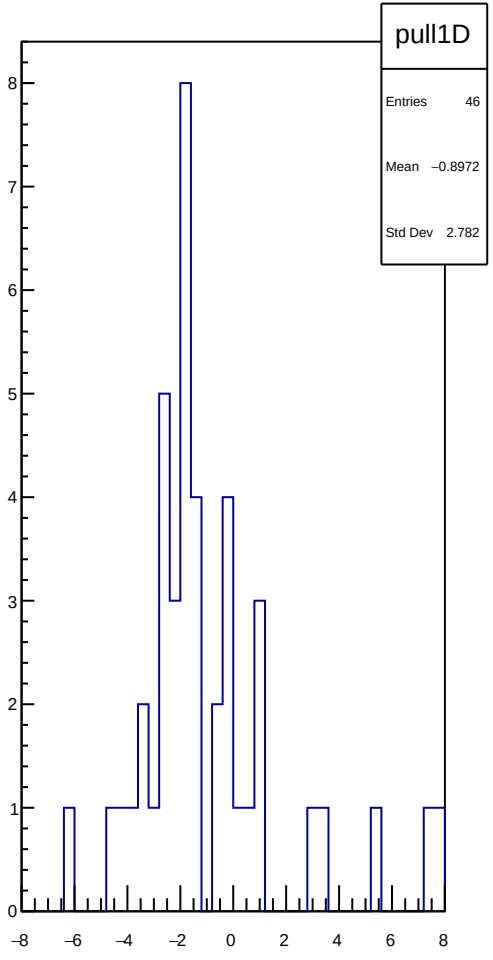

asym_cav4dQ_rms vs run
χ² / ndf 76.32 / 45
p0 0.8871 ± 0.0009237
0.92
0.91
0.9
0.89
0.88
0.87
0.86
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

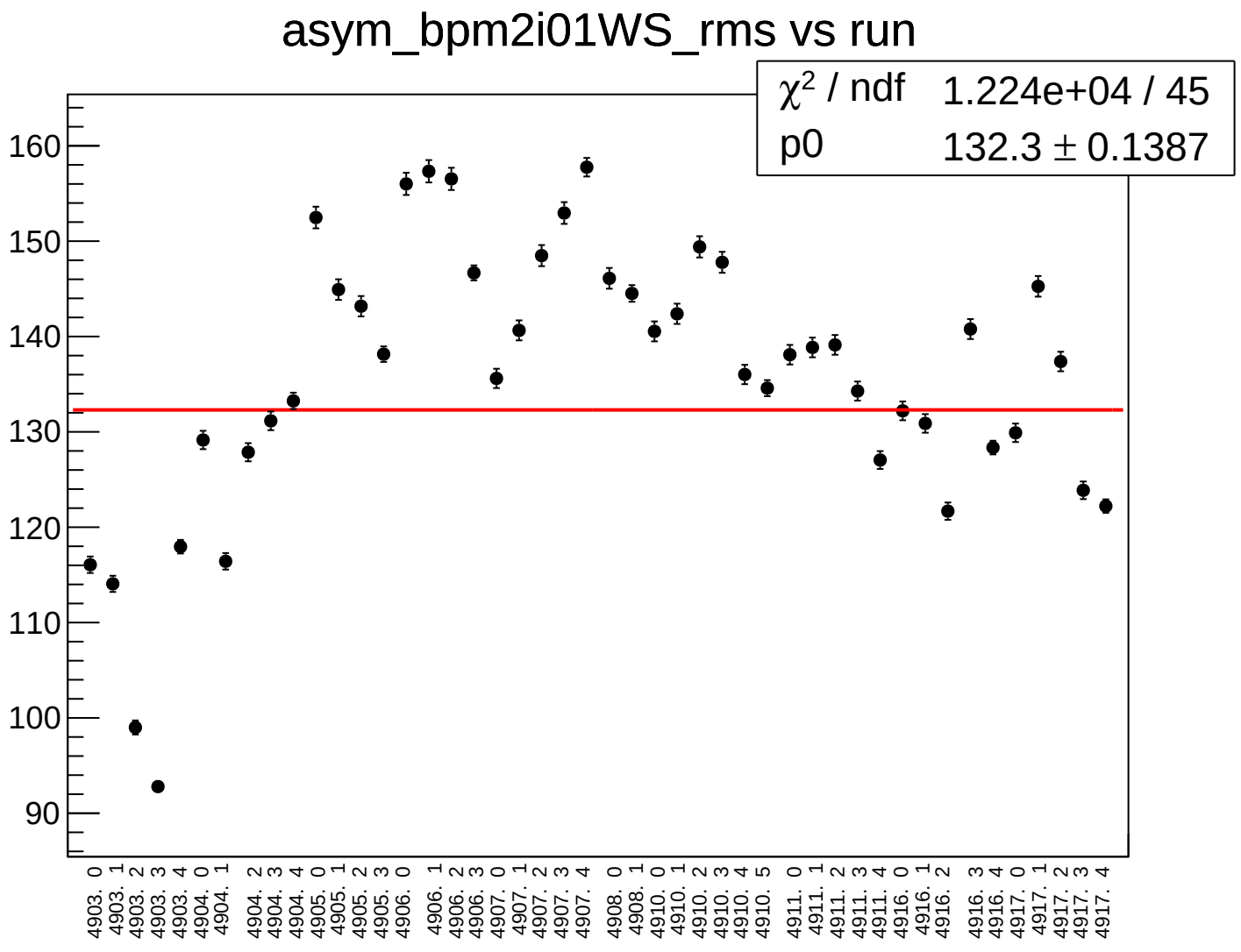

asym_bcm0l02_mean vs run
χ² / ndf 84.56 / 45
p0 −2961 ± 346.5
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −360.9
Std Dev 386.2
4
3
2
1
0
−1
−2

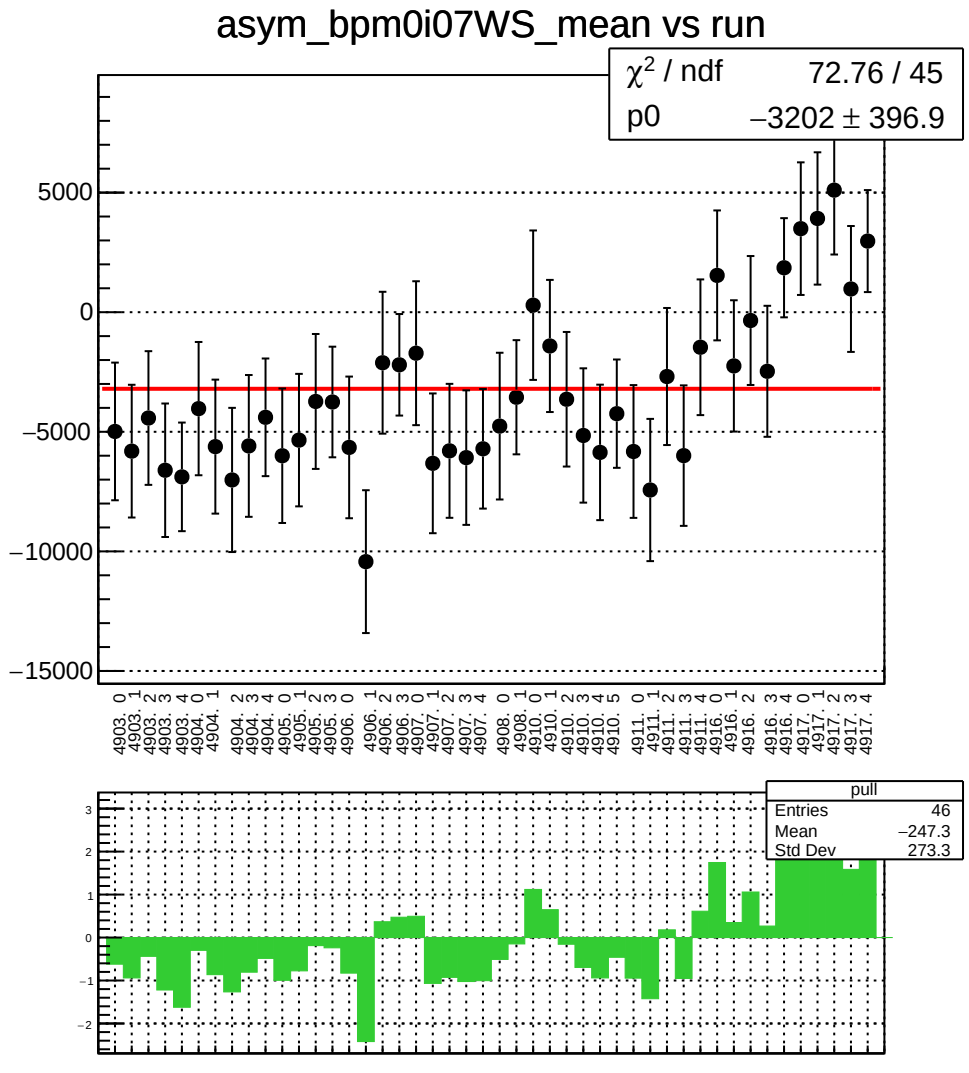

pull1D
Entries 46
Mean −0.03639
Std Dev 1.355
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

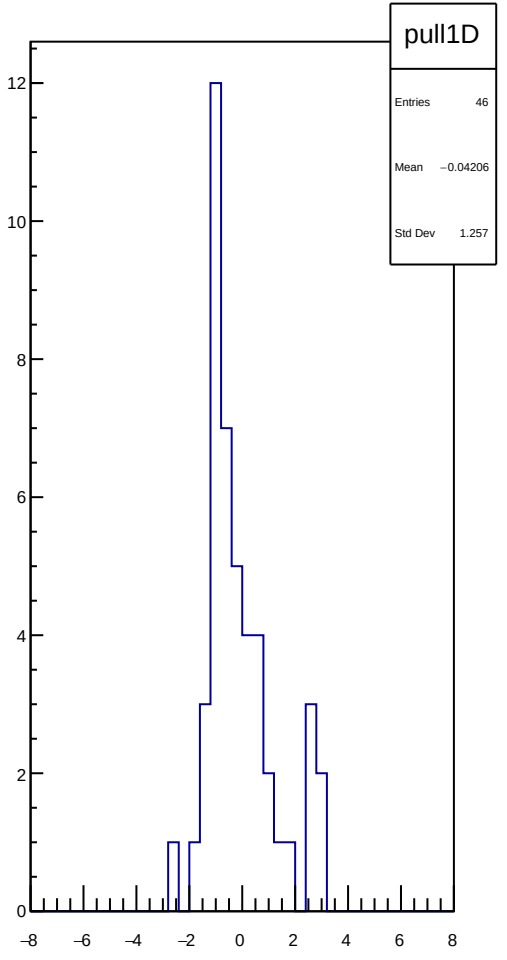

asym_bcm0l02_rms vs run
χ² / ndf 1169 / 45
p0 235.2 ± 0.245
260
255
250
245
240
235
230
225
220
215
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

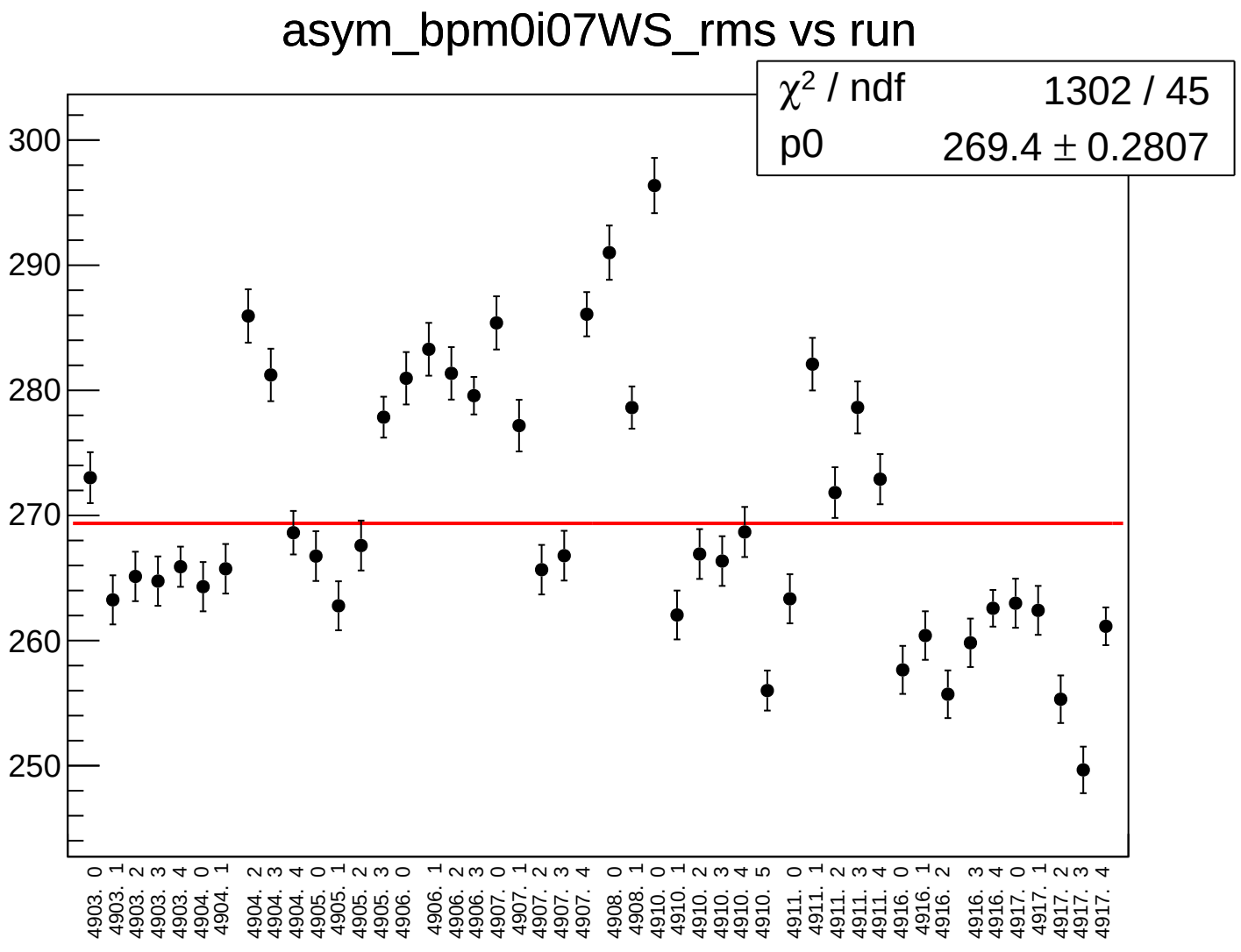

asym_bpm2i01WS_mean vs run
χ² / ndf 680.5 / 45
p0 −9944 ± 196.1
5000
0
−5000
−10000
−15000
−20000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −150.2
Std Dev 177.8
12
10
8
6
4
2
0
−2
−4
−6

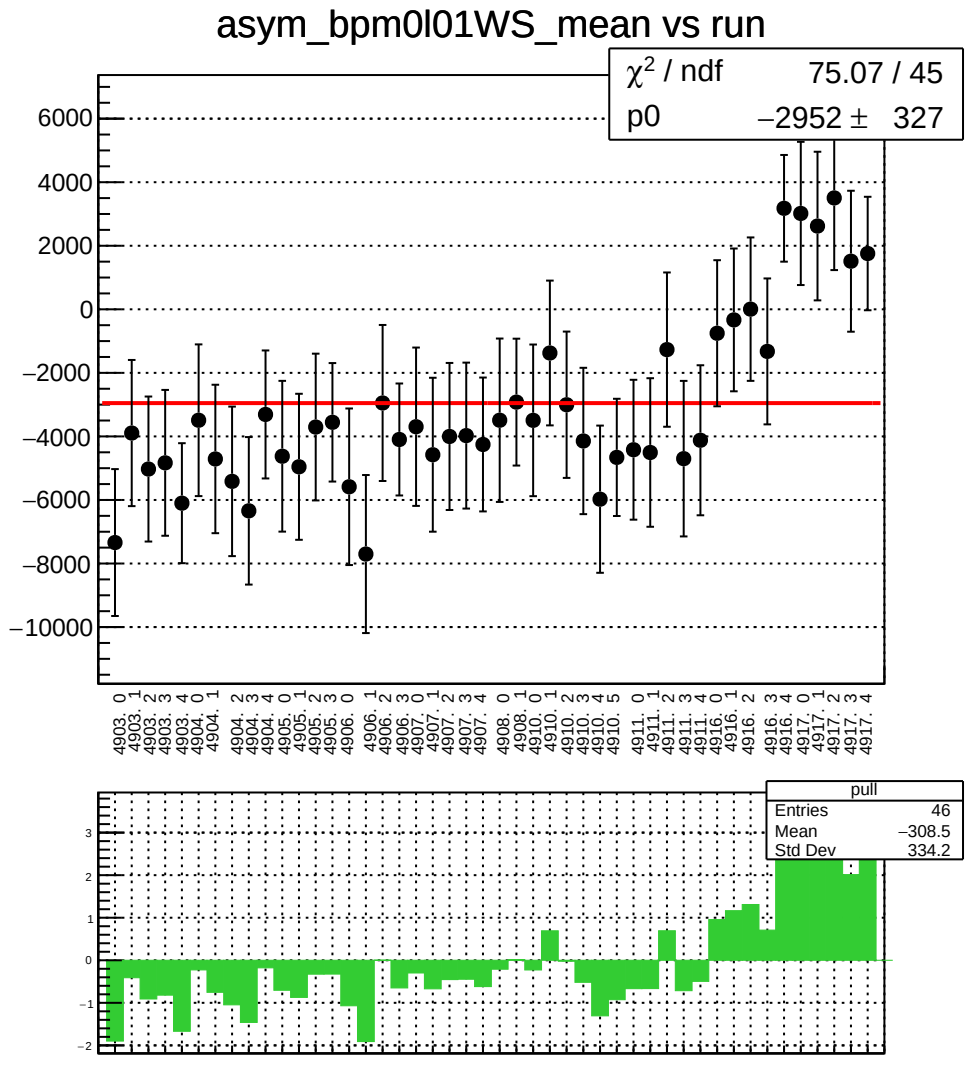

pull1D
Entries 46
Mean −0.8972
Std Dev 2.782
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

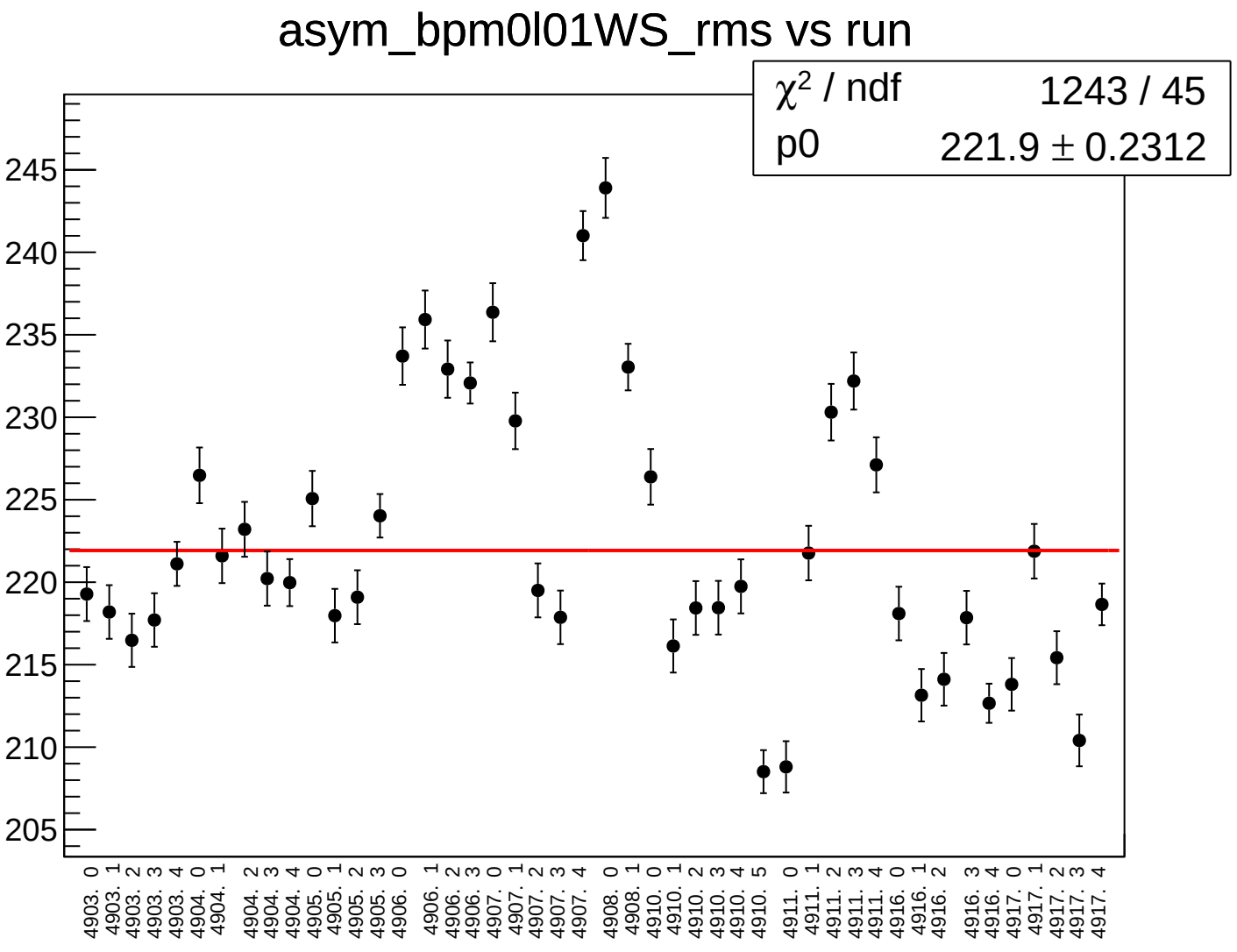

asym_bpm2i01WS_rms vs run
χ² / ndf 1.224e+04 / 45
p0 132.3 ± 0.1387
160
150
140
130
120
110
100
90
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

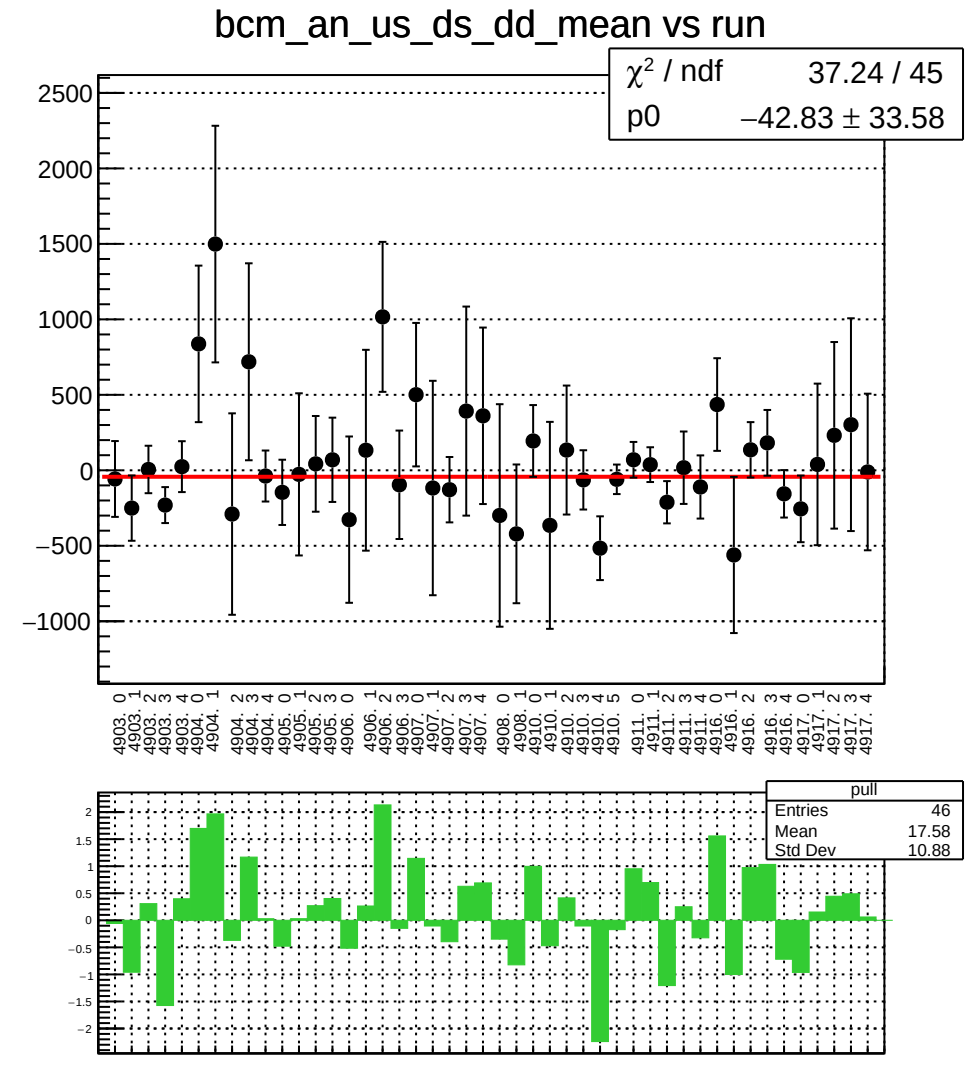

asym_bpm0i07WS_mean vs run
χ² / ndf 72.76 / 45
p0 −3202 ± 396.9
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −247.3
Std Dev 273.3
3
2
1
0
−1
−2

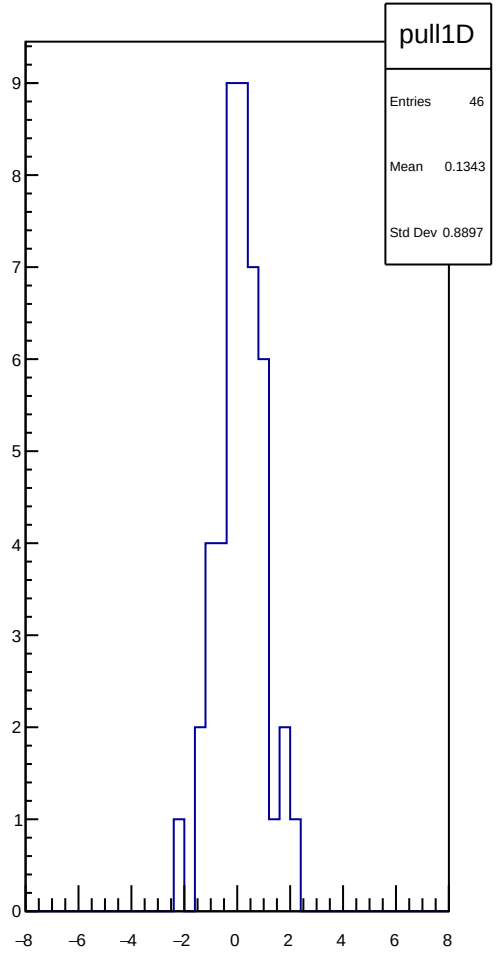

pull1D
Entries 46
Mean −0.04206
Std Dev 1.257
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

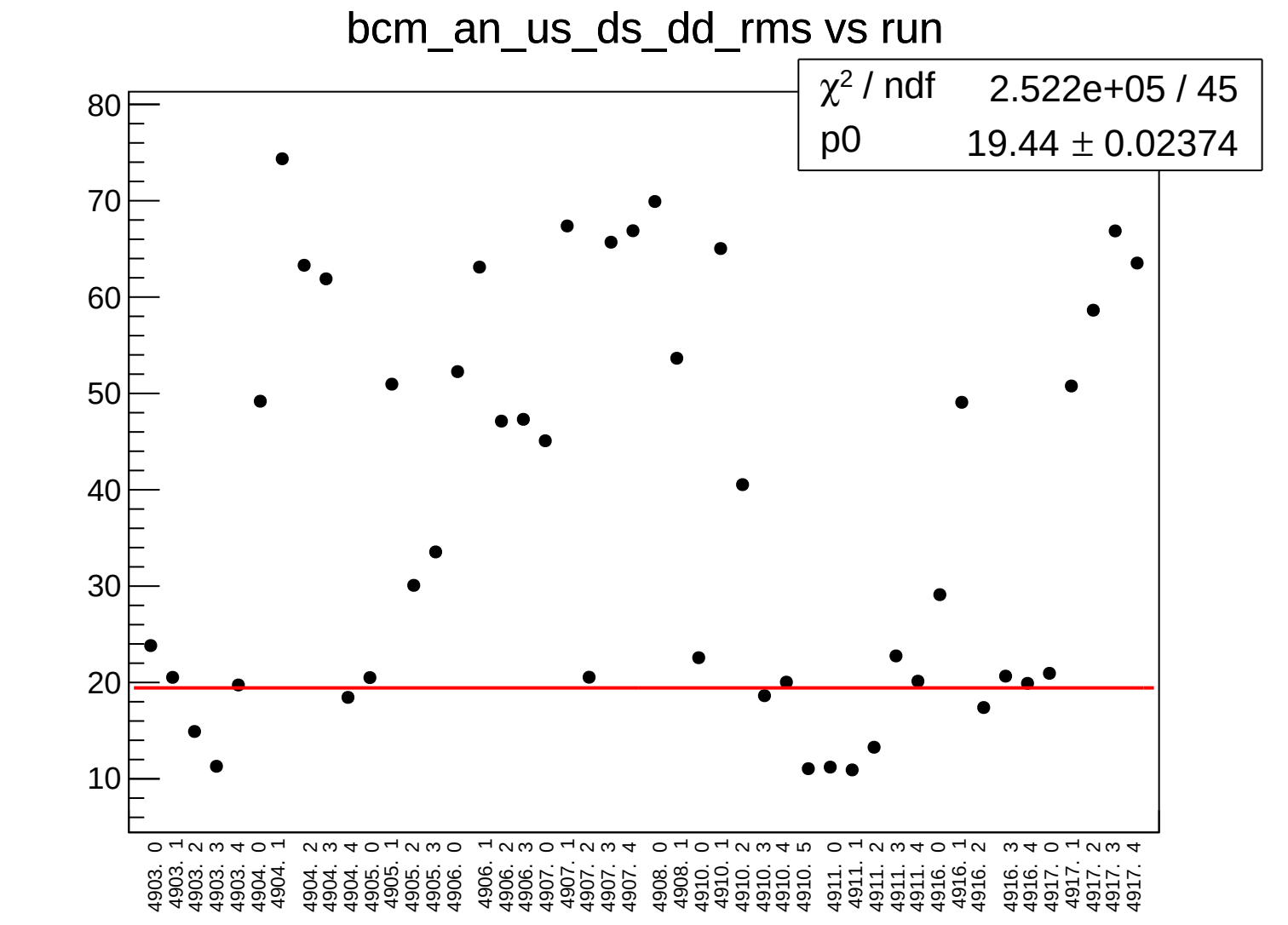

asym_bpm0i07WS_rms vs run
χ² / ndf 1302 / 45
p0 269.4 ± 0.2807
300
290
280
270
260
250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

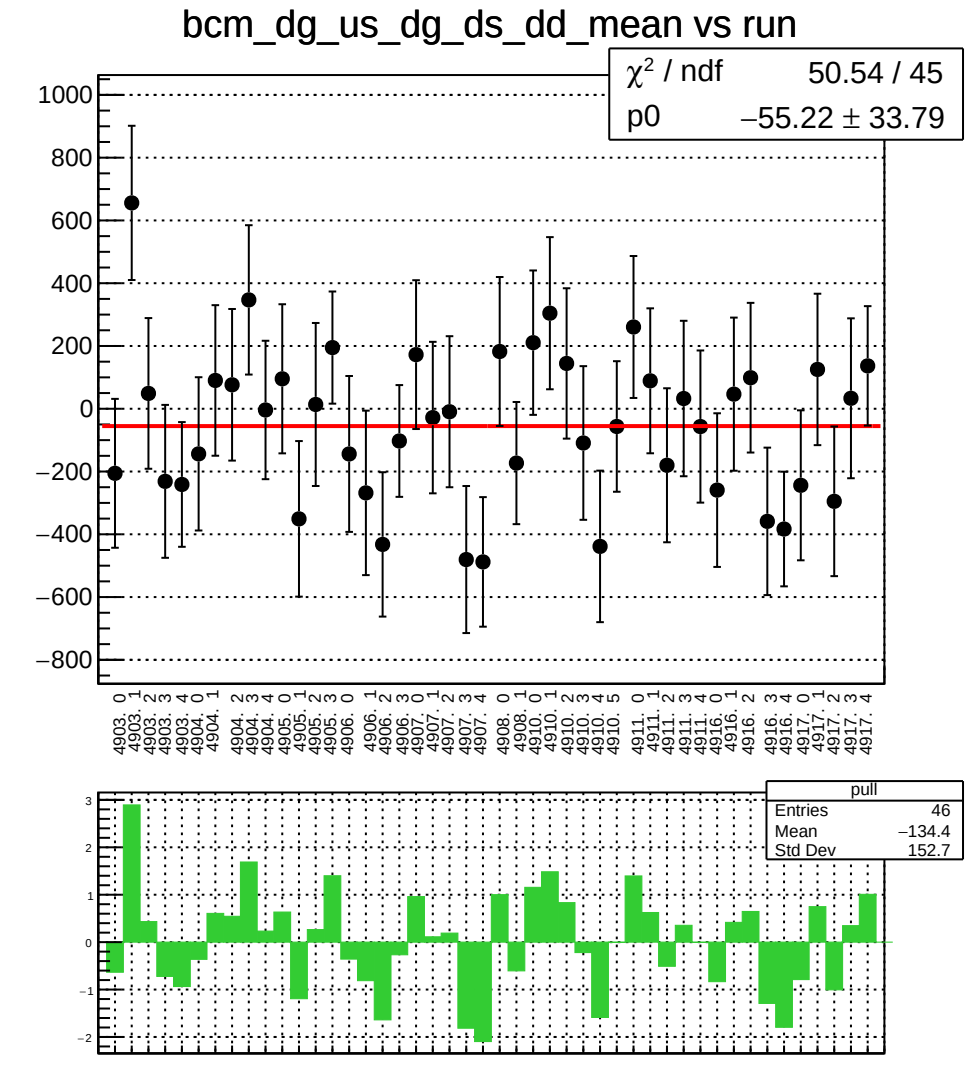

asym_bpm0l01WS_mean vs run
χ² / ndf 75.07 / 45
p0 −2952 ± 327
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −308.5
Std Dev 334.2
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03788
Std Dev 1.277
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

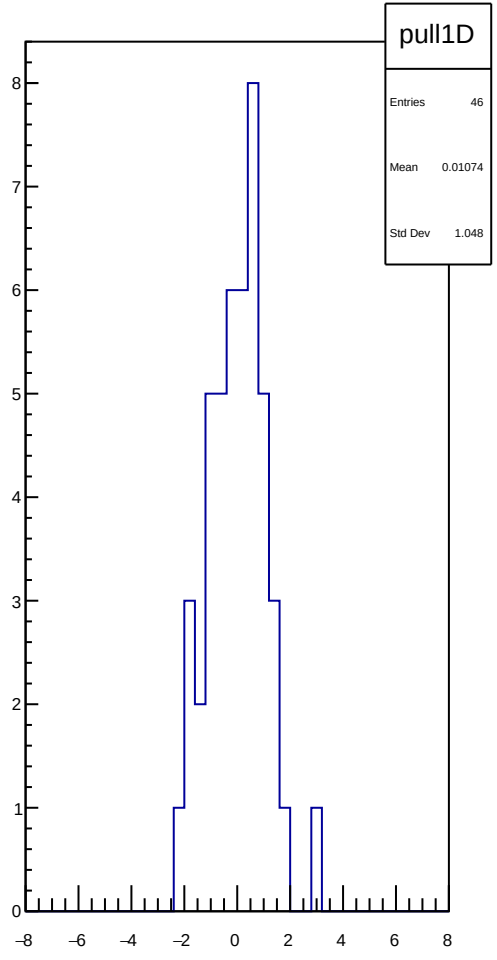

asym_bpm0l01WS_rms vs run
χ² / ndf 1243 / 45
p0 221.9 ± 0.2312
245
240
235
230
225
220
215
210
205
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

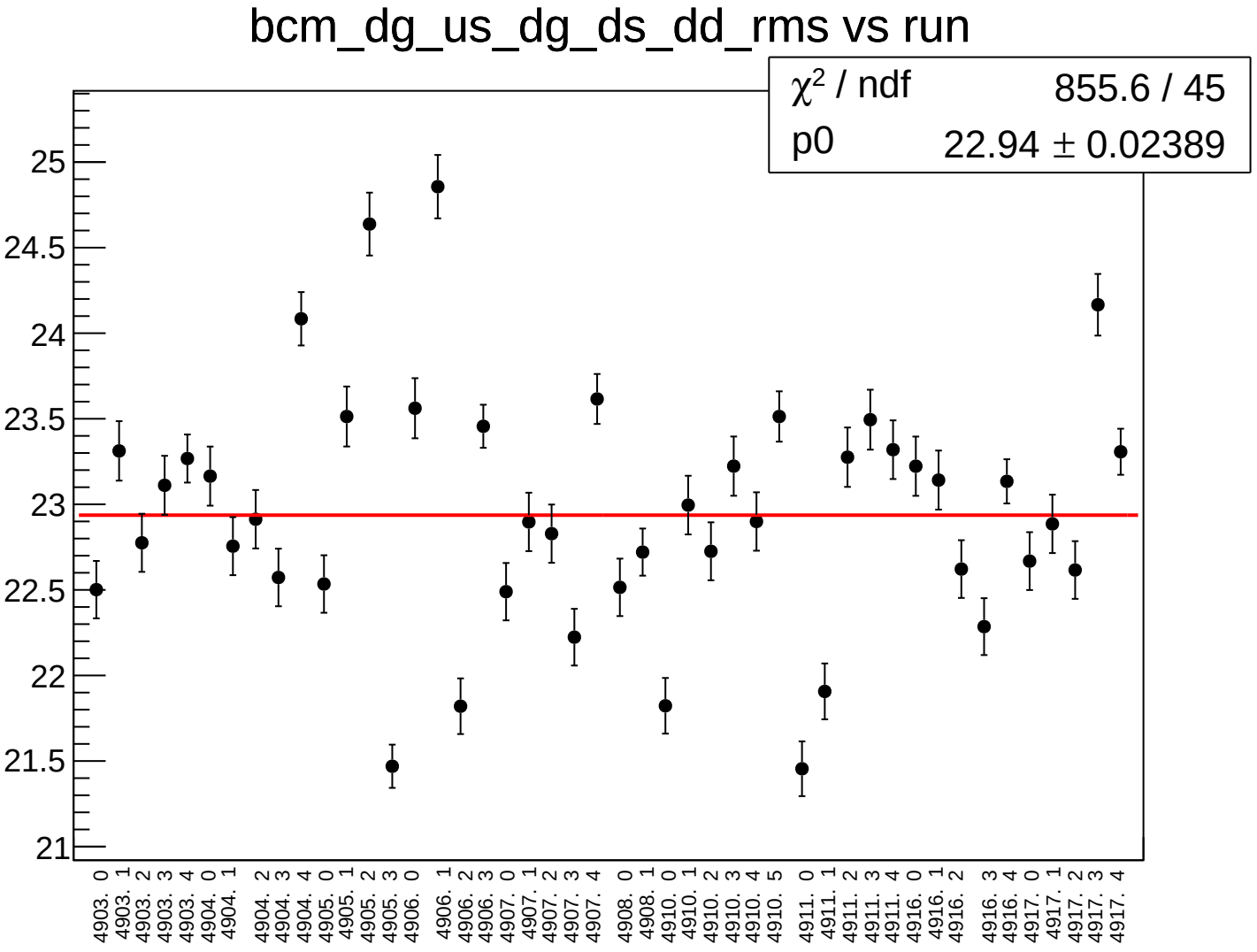

bcm_an_us_ds_dd_mean vs run
χ² / ndf 37.24 / 45
p0 −42.83 ± 33.58
pull
Entries 46
Mean 17.58
Std Dev 10.88

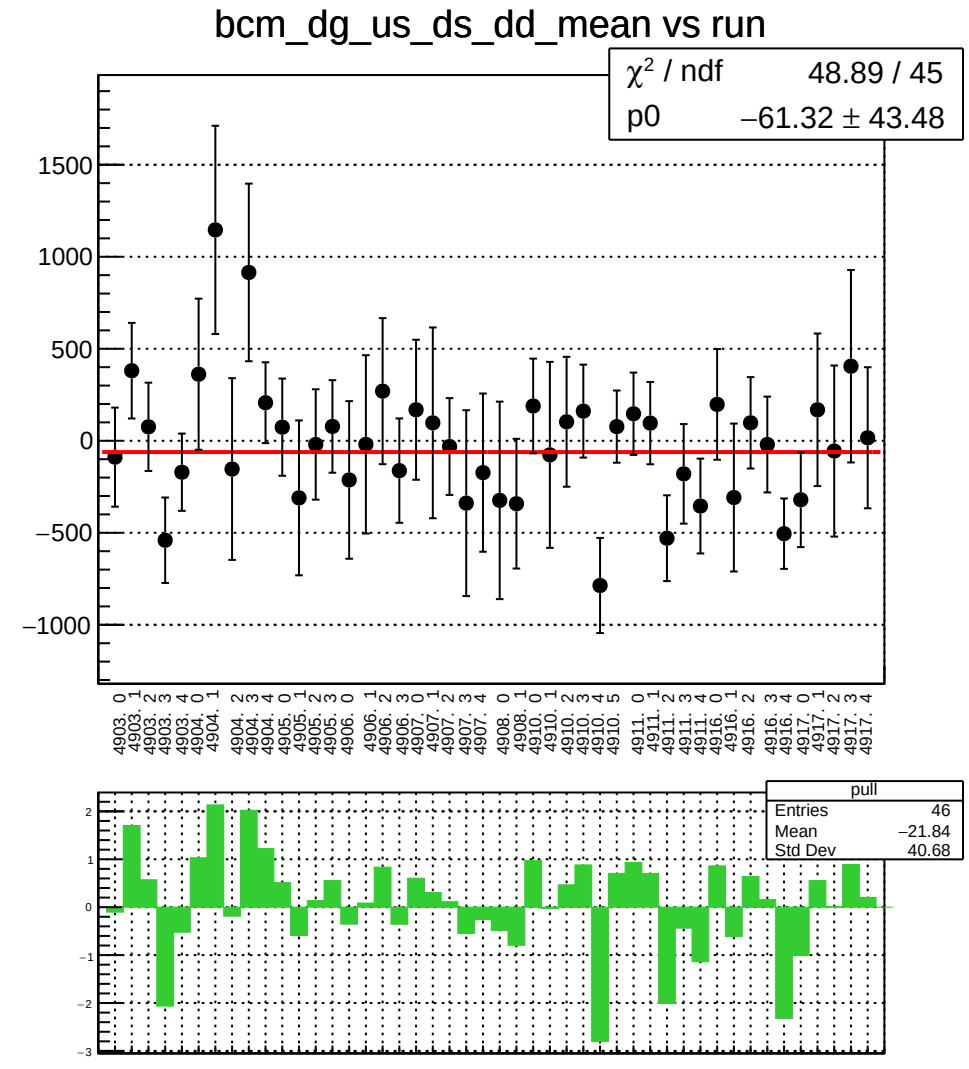

pull1D
Entries 46
Mean 0.1343
Std Dev 0.8897

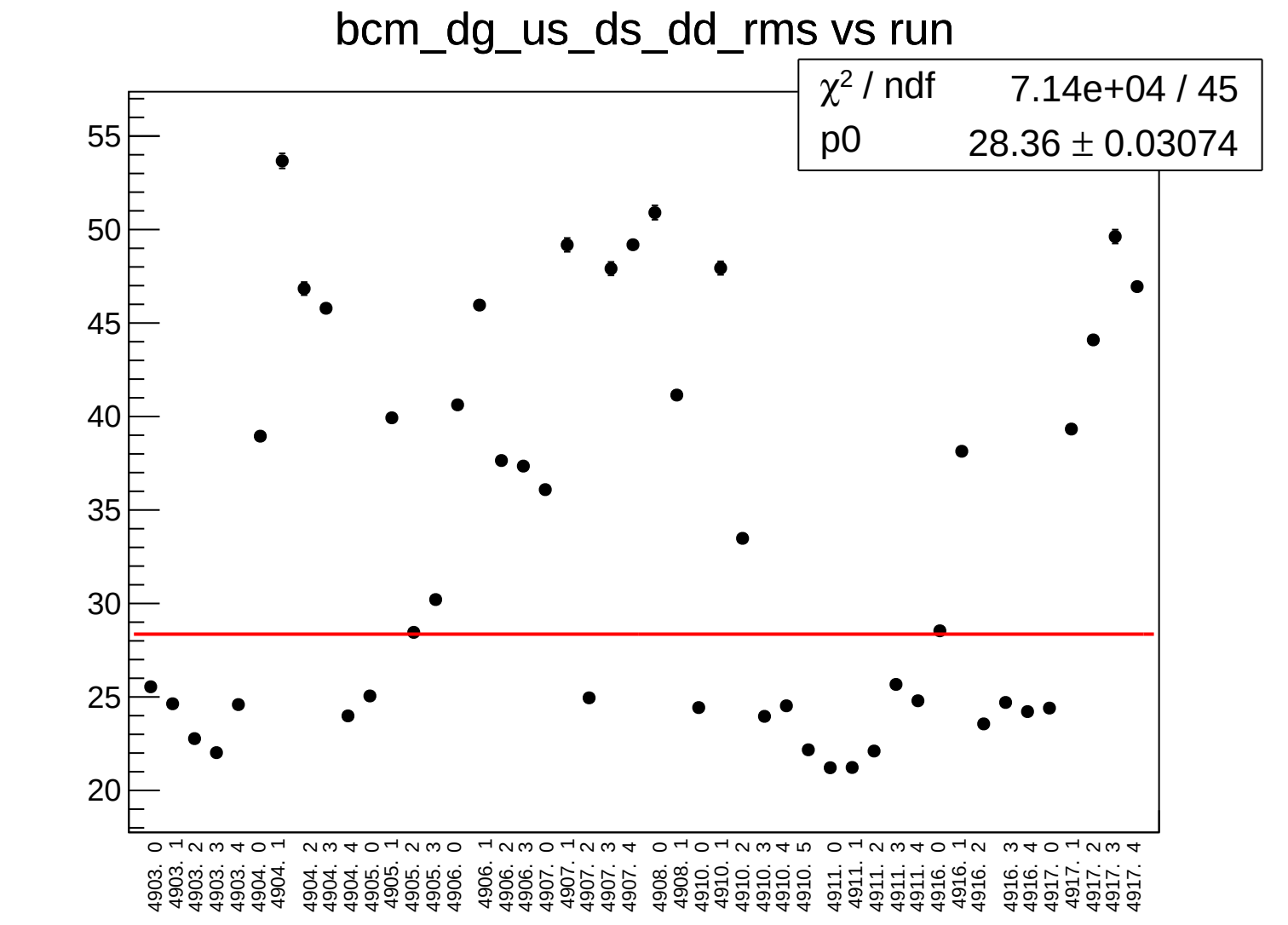

bcm_an_us_ds_dd_rms vs run
χ² / ndf 2.522e+05 / 45
p0 19.44 ± 0.02374
80
70
60
50
40
30
20
10
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

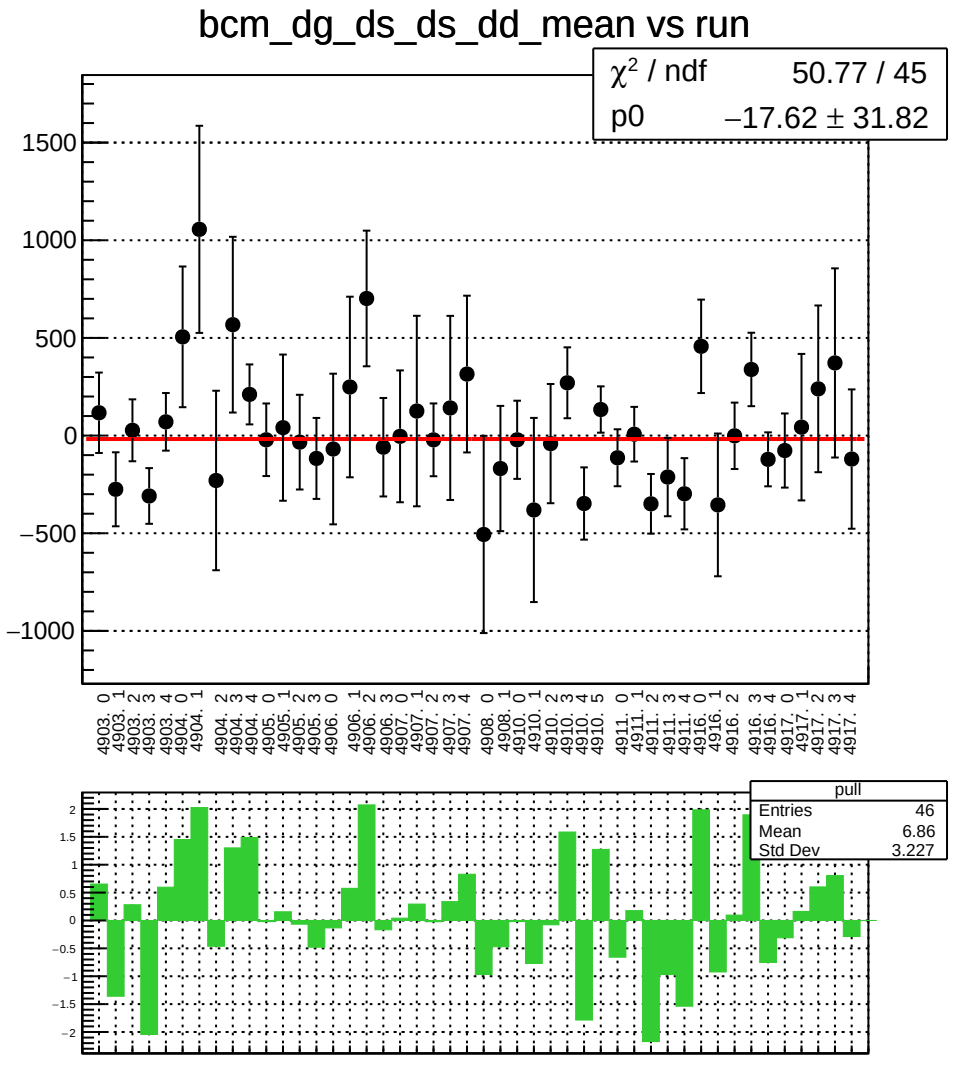

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 50.54 / 45
p0 −55.22 ± 33.79
pull
Entries 46
Mean −134.4
Std Dev 152.7

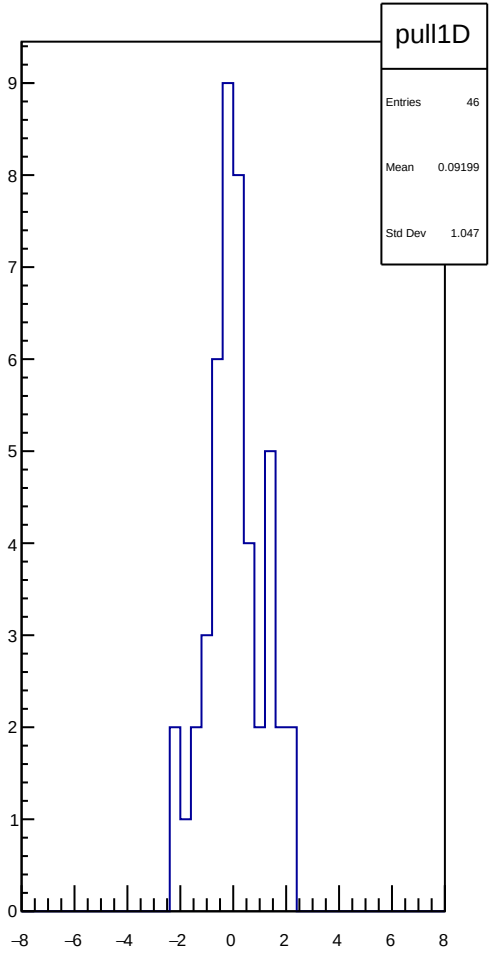

pull1D
Entries 46
Mean 0.01074
Std Dev 1.048

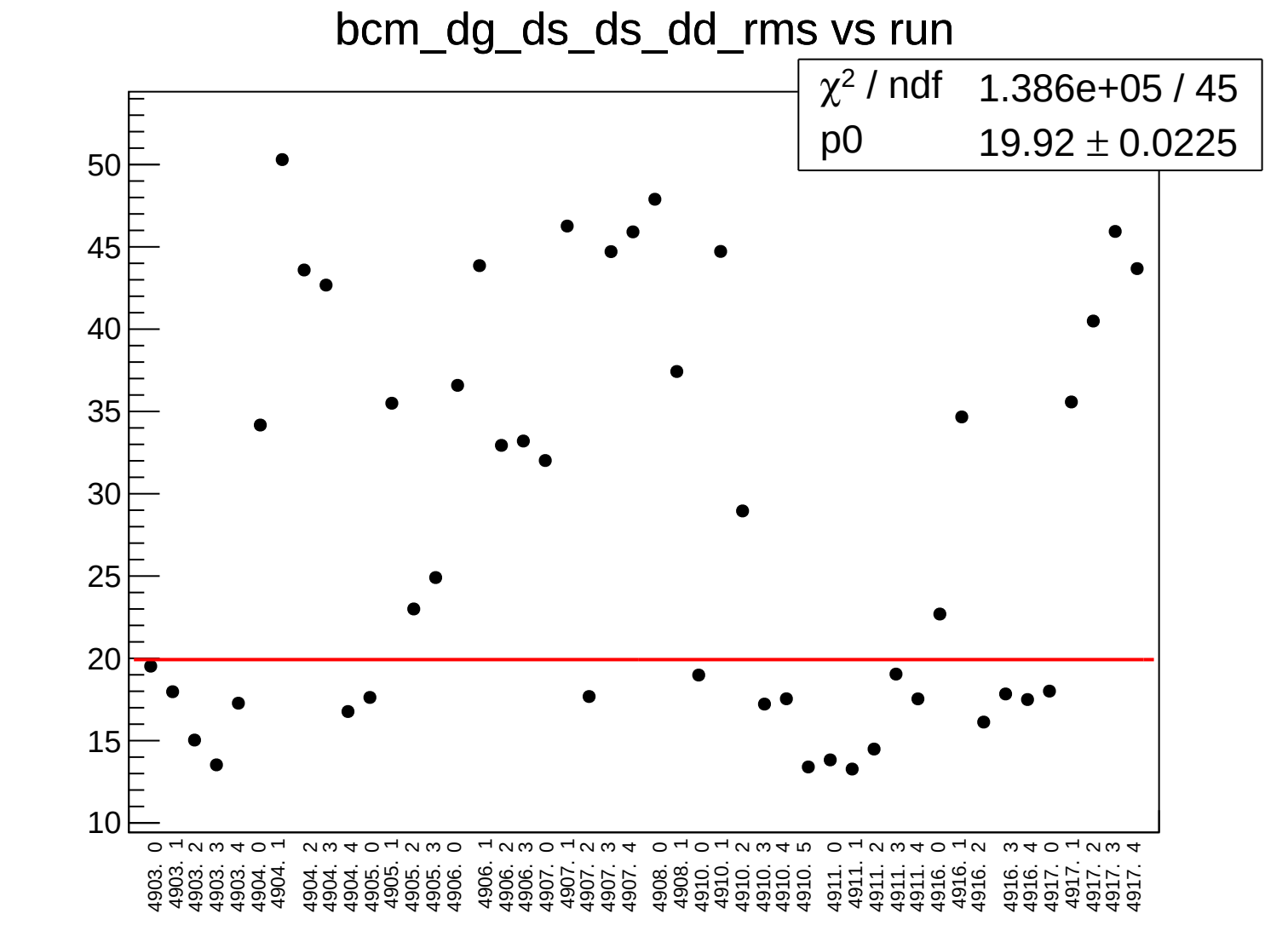

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 855.6 / 45
p0 22.94 ± 0.02389
25
24.5
24
23.5
23
22.5
22
21.5
21
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

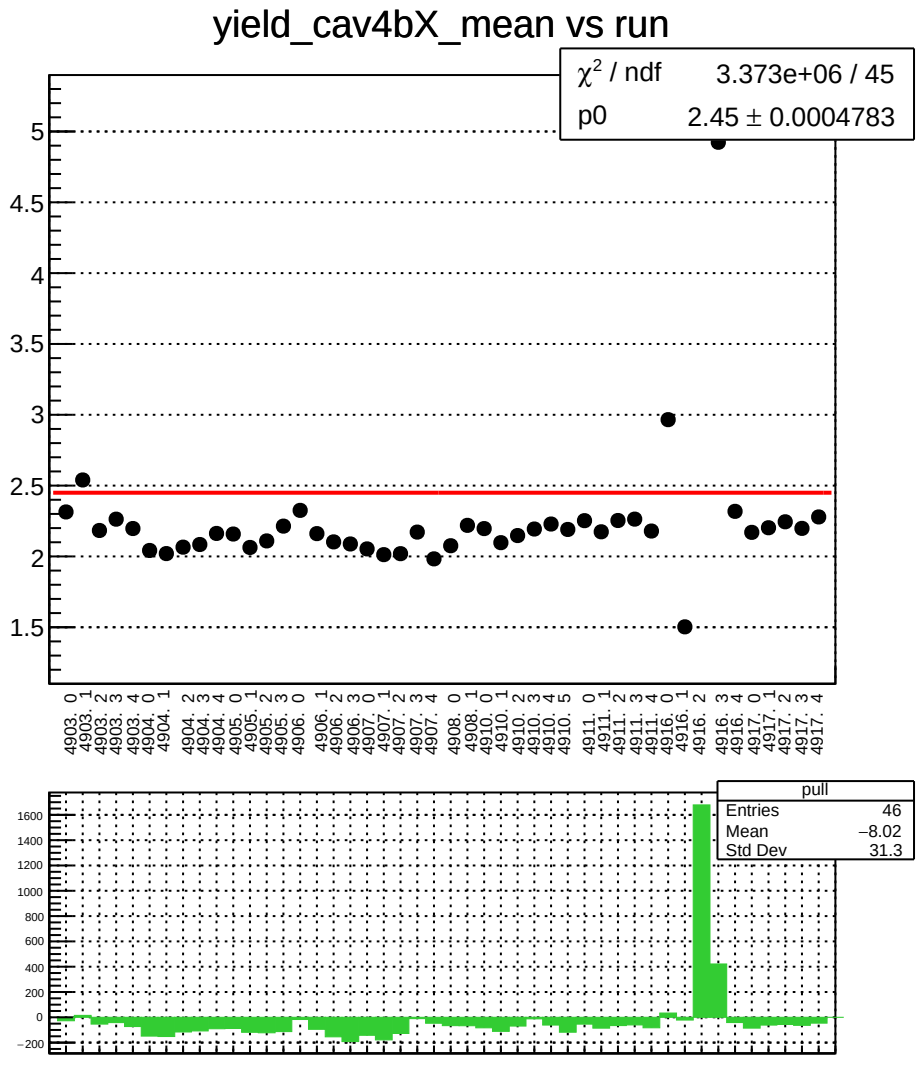

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 48.89 / 45
p0 −61.32 ± 43.48
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −21.84
Std Dev 40.68
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.06927
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

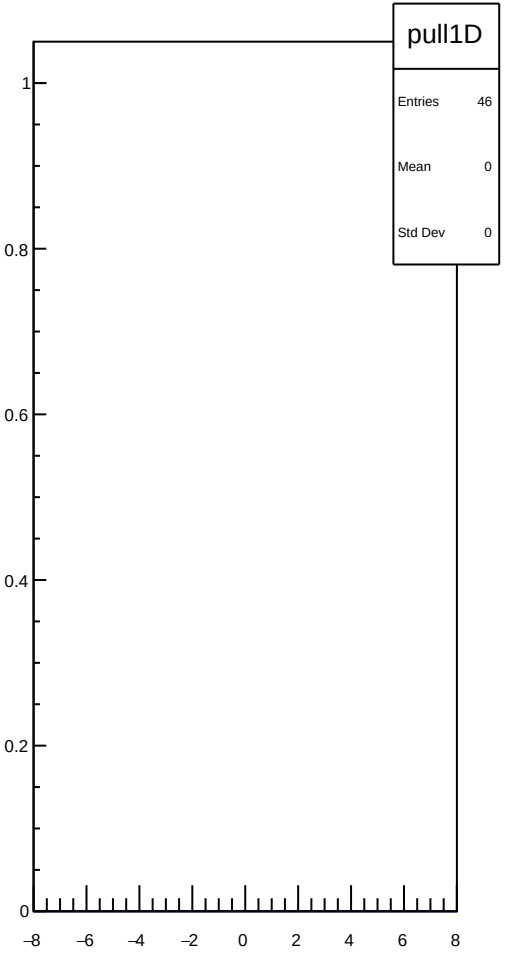

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 7.14e+04 / 45
p0 28.36 ± 0.03074
55
50
45
40
35
30
25
20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

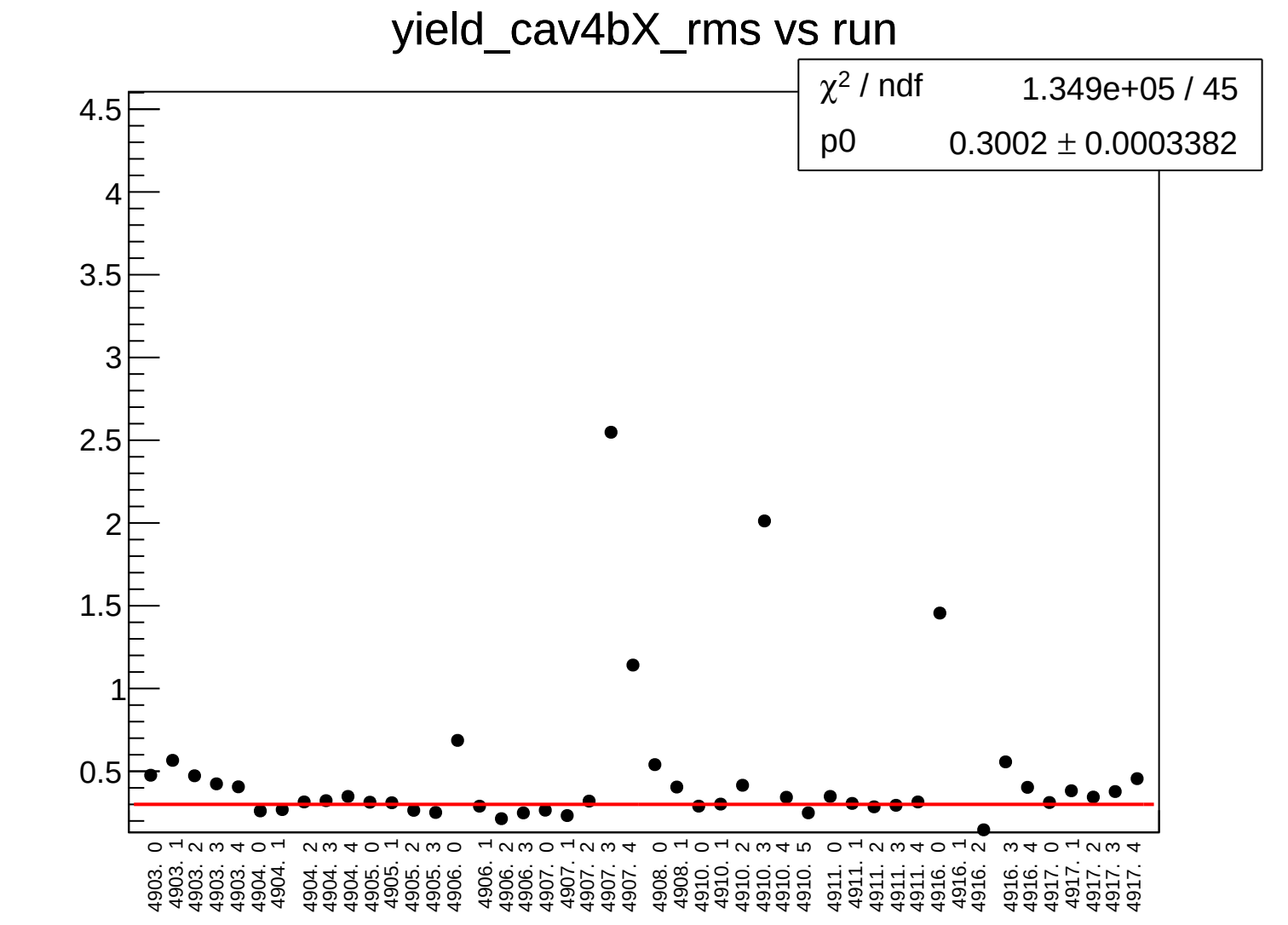

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 50.77 / 45
p0 −17.62 ± 31.82
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 6.86
Std Dev 3.227
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

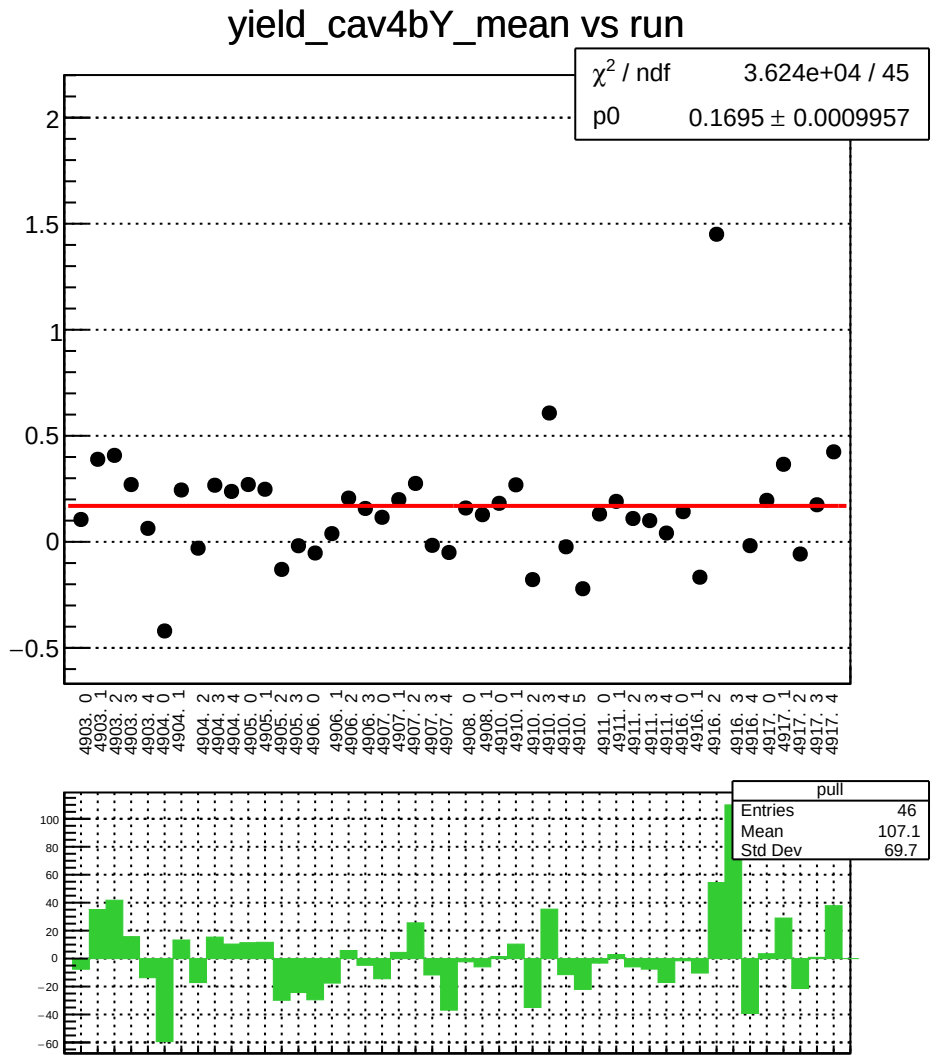

pull1D
Entries 46
Mean 0.09199
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

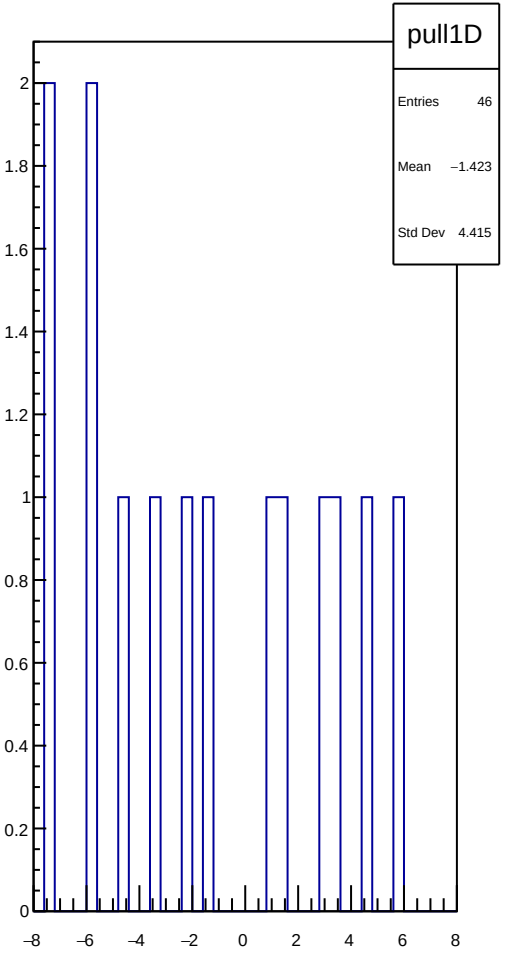

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 1.386e+05 / 45
p0 19.92 ± 0.0225
50
45
40
35
30
25
20
15
10
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

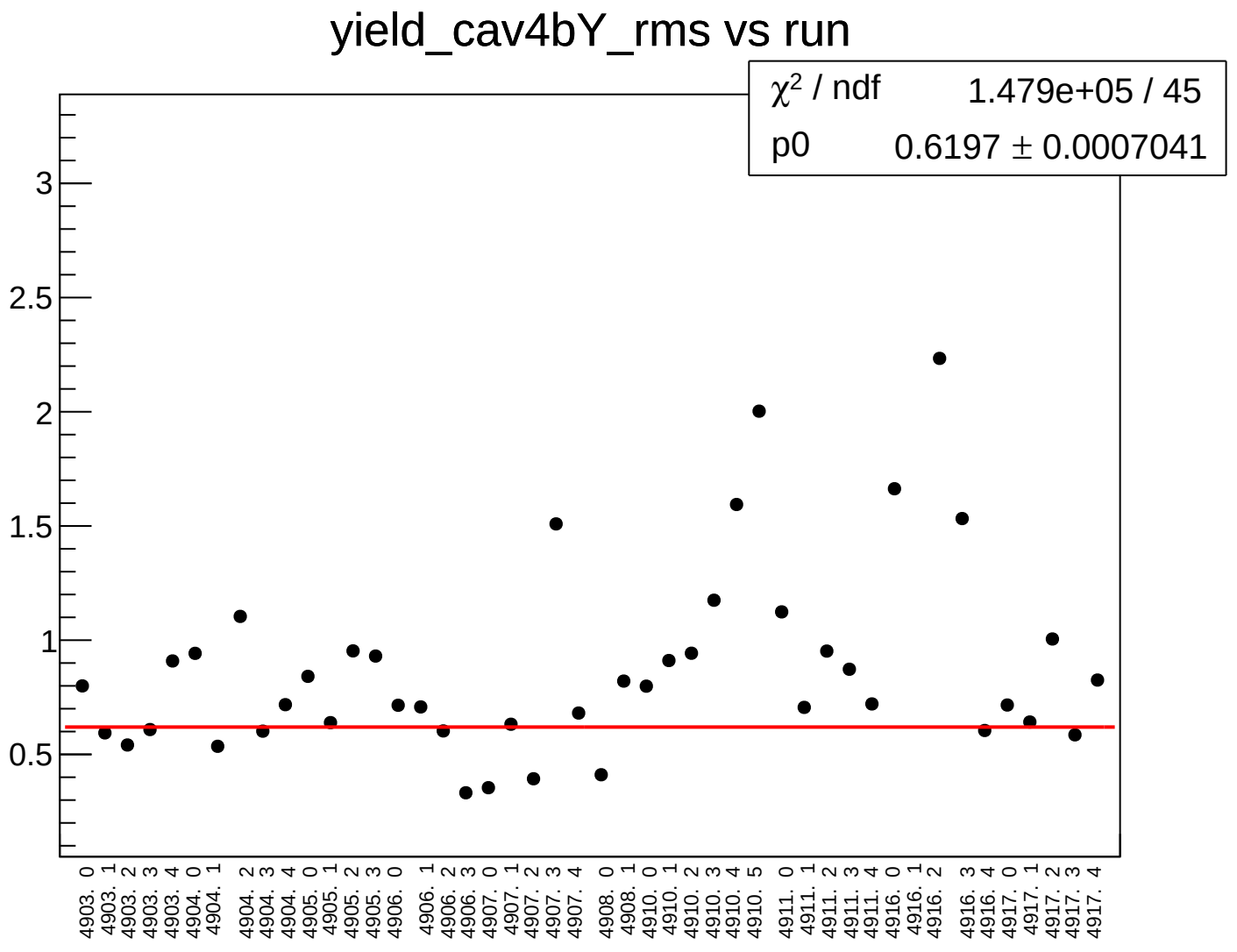

yield_cav4bX_mean vs run
χ² / ndf 3.373e+06 / 45
p0 2.45 ± 0.0004783
pull
Entries 46
Mean −8.02
Std Dev 31.3

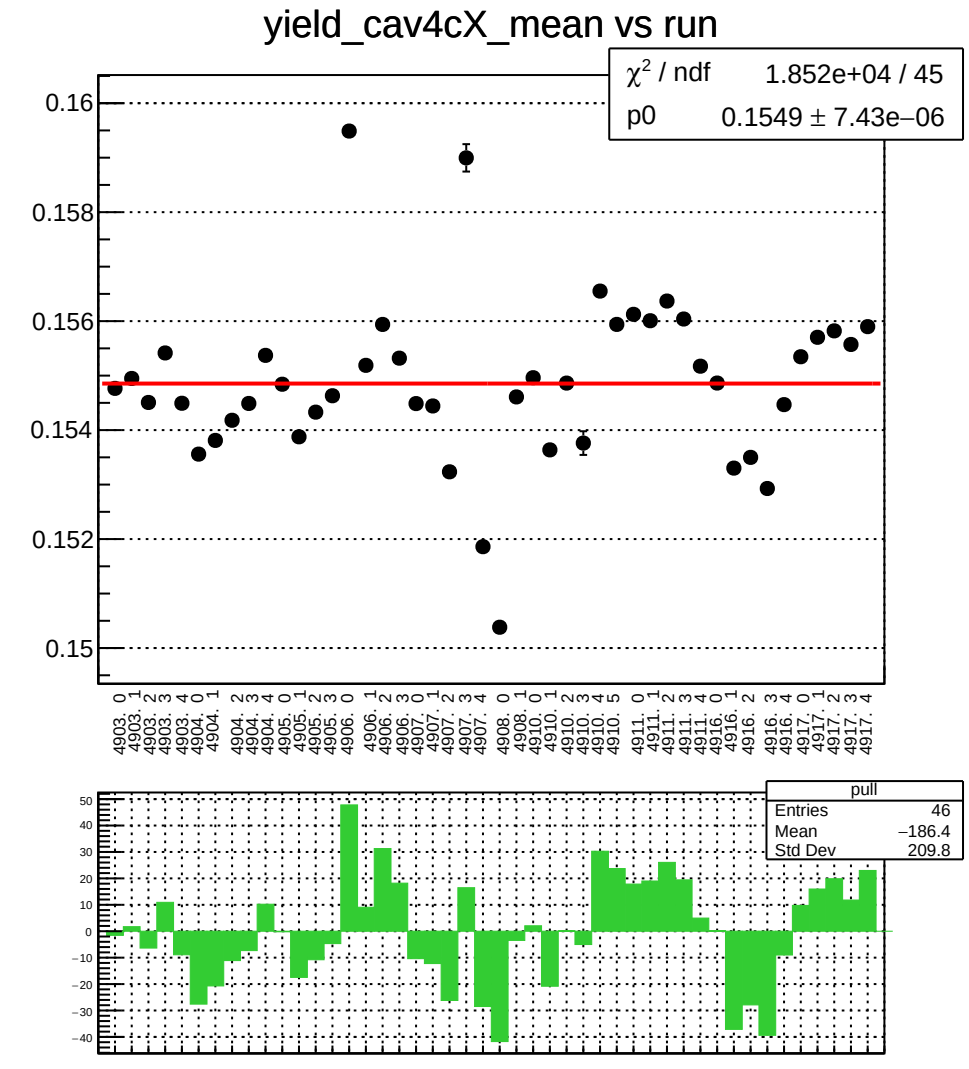

pull1D
Entries 46
Mean 0
Std Dev 0

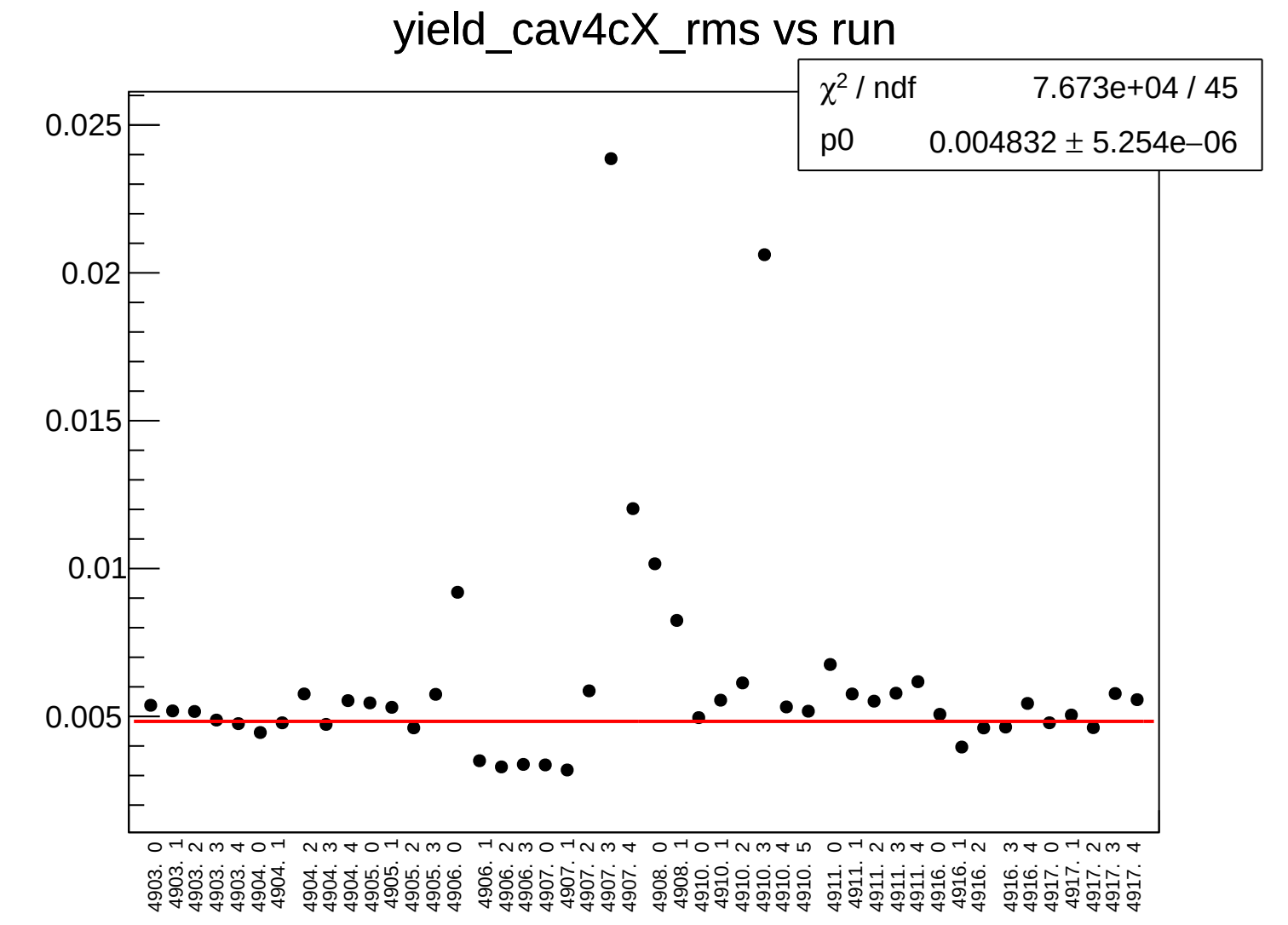

yield_cav4bX_rms vs run
χ² / ndf 1.349e+05 / 45
p0 0.3002 ± 0.0003382
4.5
4
3.5
3
2.5
2
1.5
1
0.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

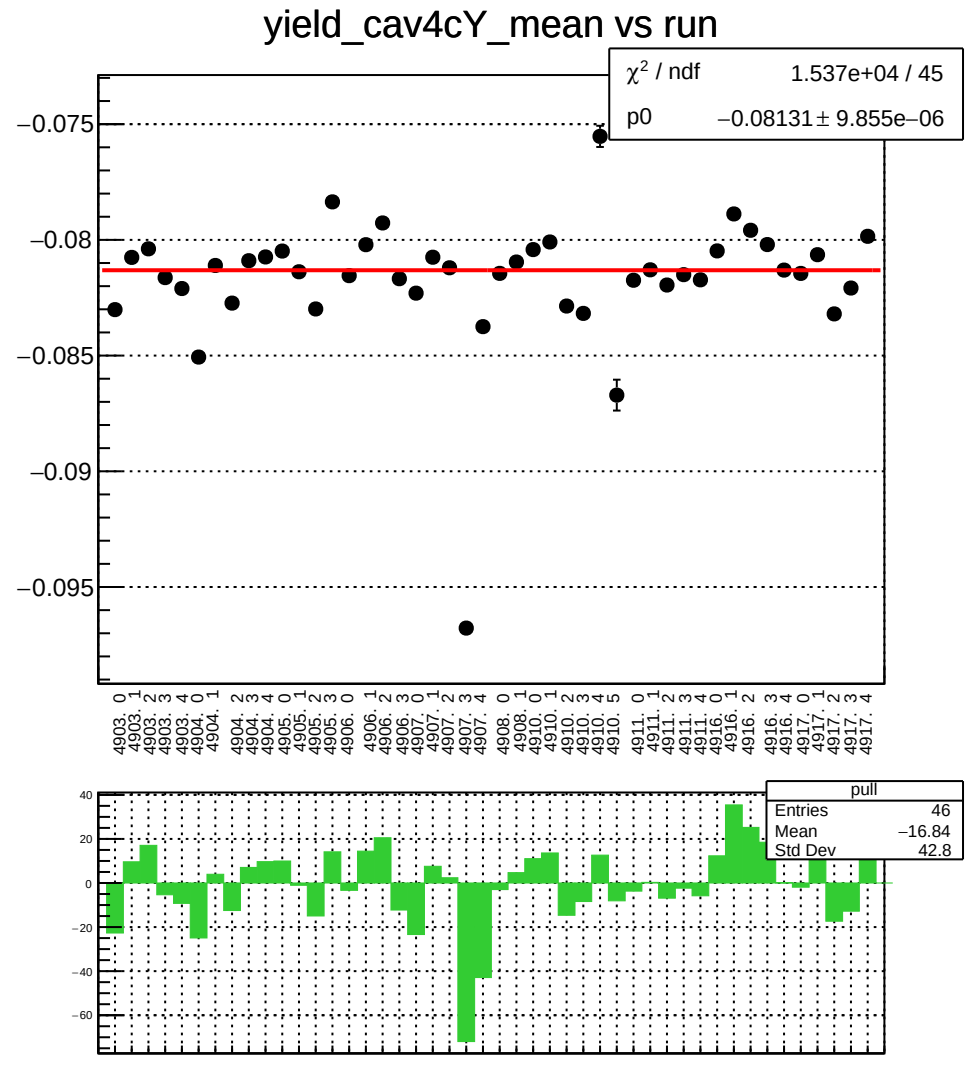

yield_cav4bY_mean vs run
χ² / ndf 3.624e+04 / 45
p0 0.1695 ± 0.0009957
pull
Entries 46
Mean 107.1
Std Dev 69.7

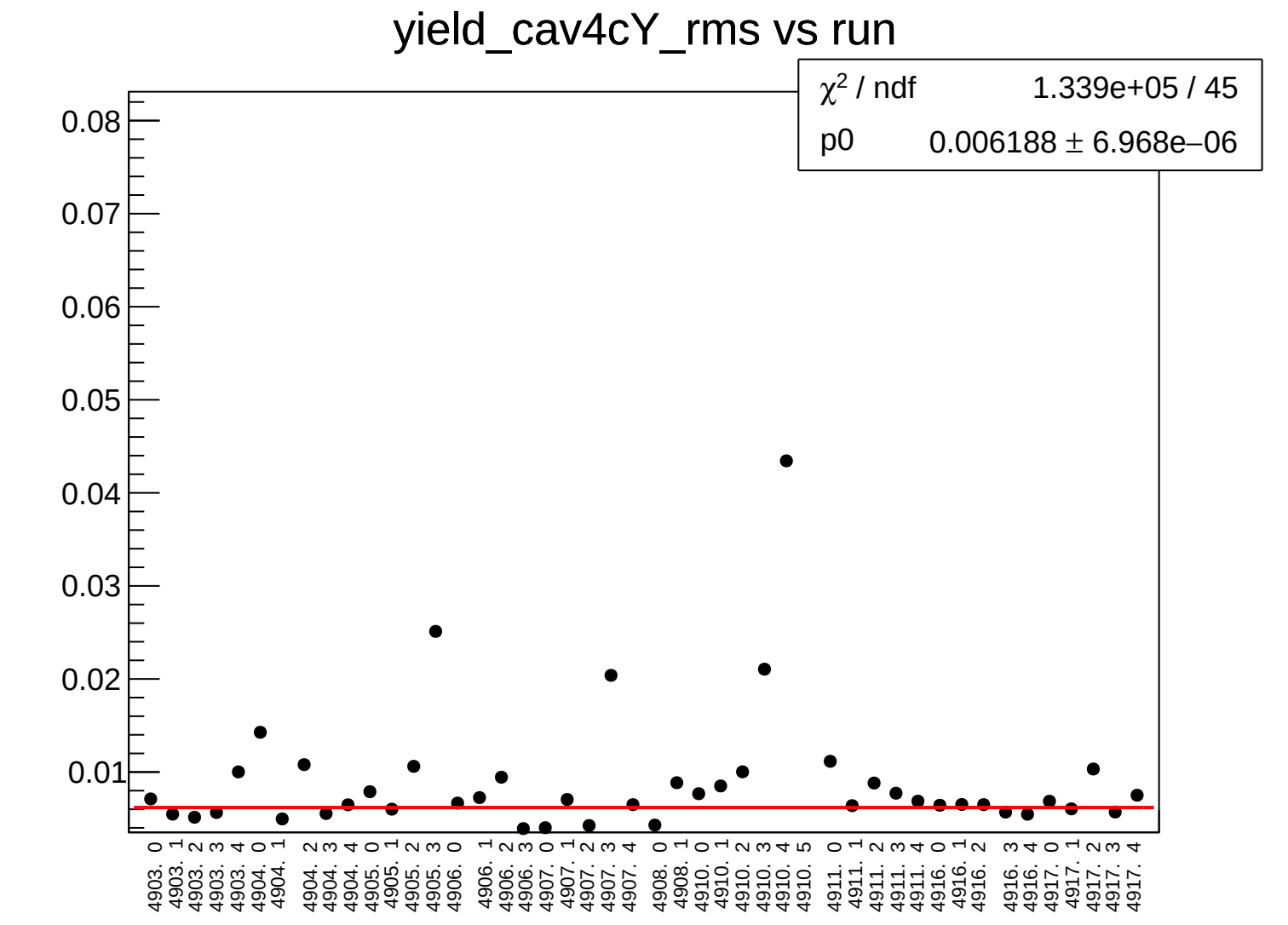

pull1D
Entries 46
Mean −1.423
Std Dev 4.415

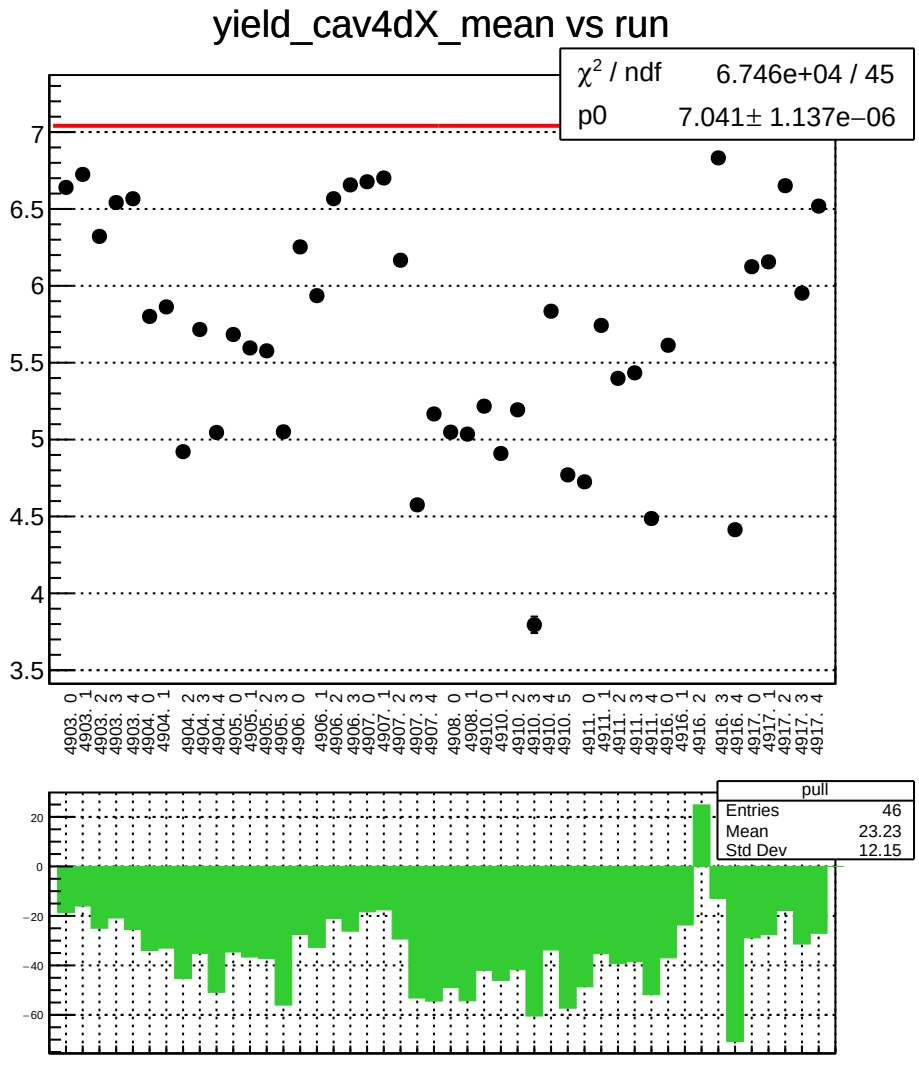

yield_cav4bY_rms vs run
χ² / ndf 1.479e+05 / 45
p0 0.6197 ± 0.0007041
3
2.5
2
1.5
1
0.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

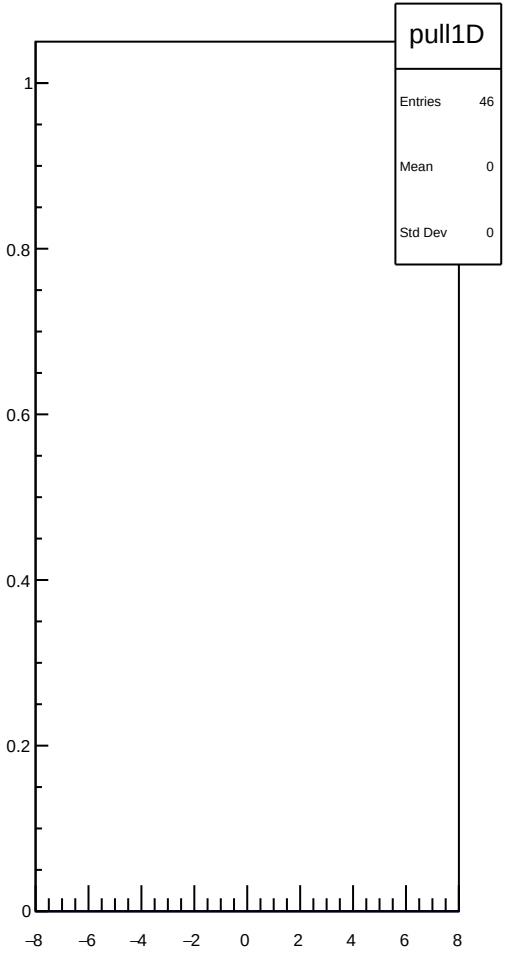

yield_cav4cX_mean vs run
χ² / ndf 1.852e+04 / 45
p0 0.1549 ± 7.43e−06
0.16
0.158
0.156
0.154
0.152
0.15
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −186.4
Std Dev 209.8
50
40
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 46
Mean −1.63
Std Dev 3.604
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

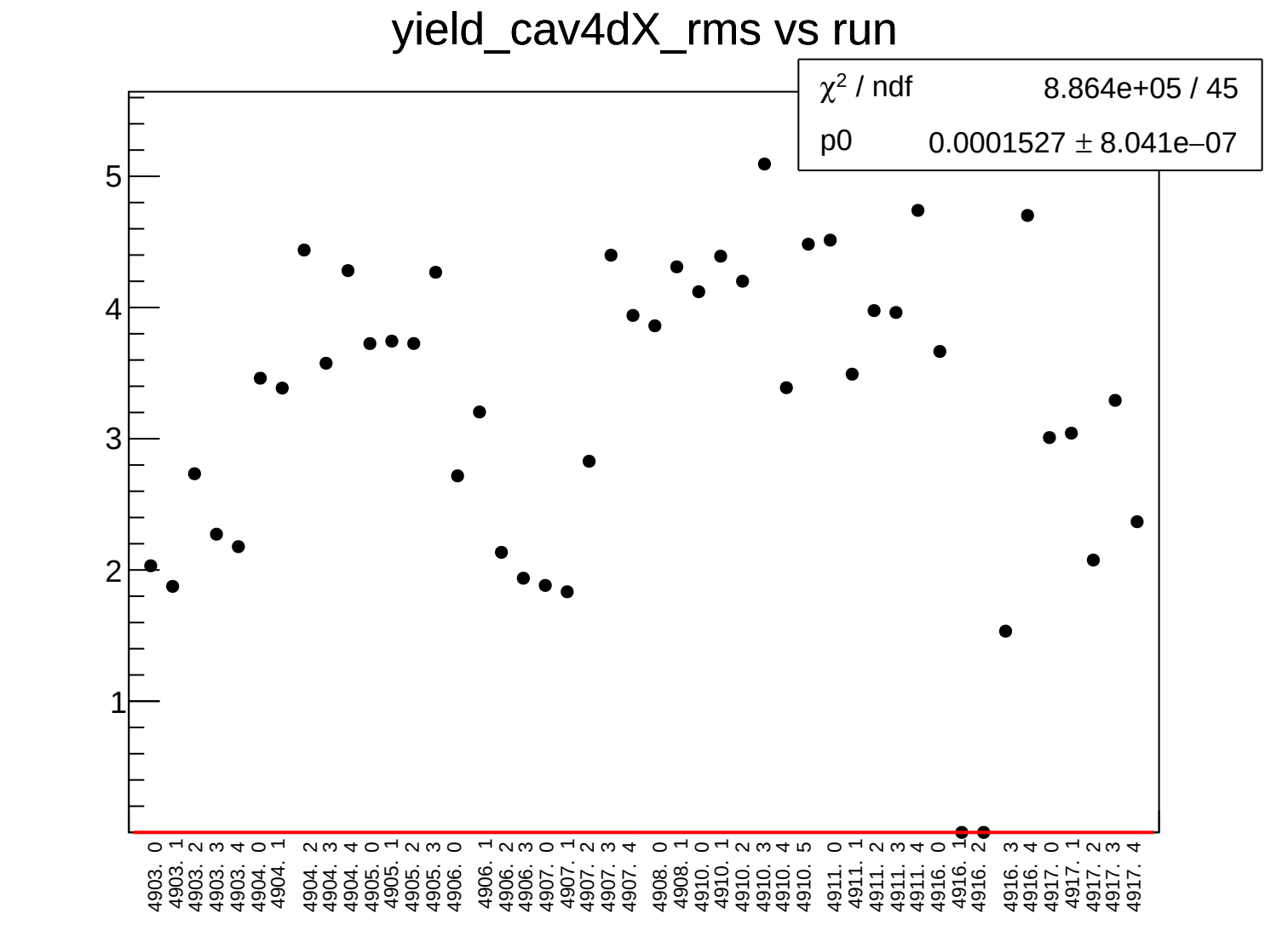

yield_cav4cX_rms vs run
χ² / ndf 7.673e+04 / 45
p0 0.004832 ± 5.254e−06
0.025
0.02
0.015
0.01
0.005
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

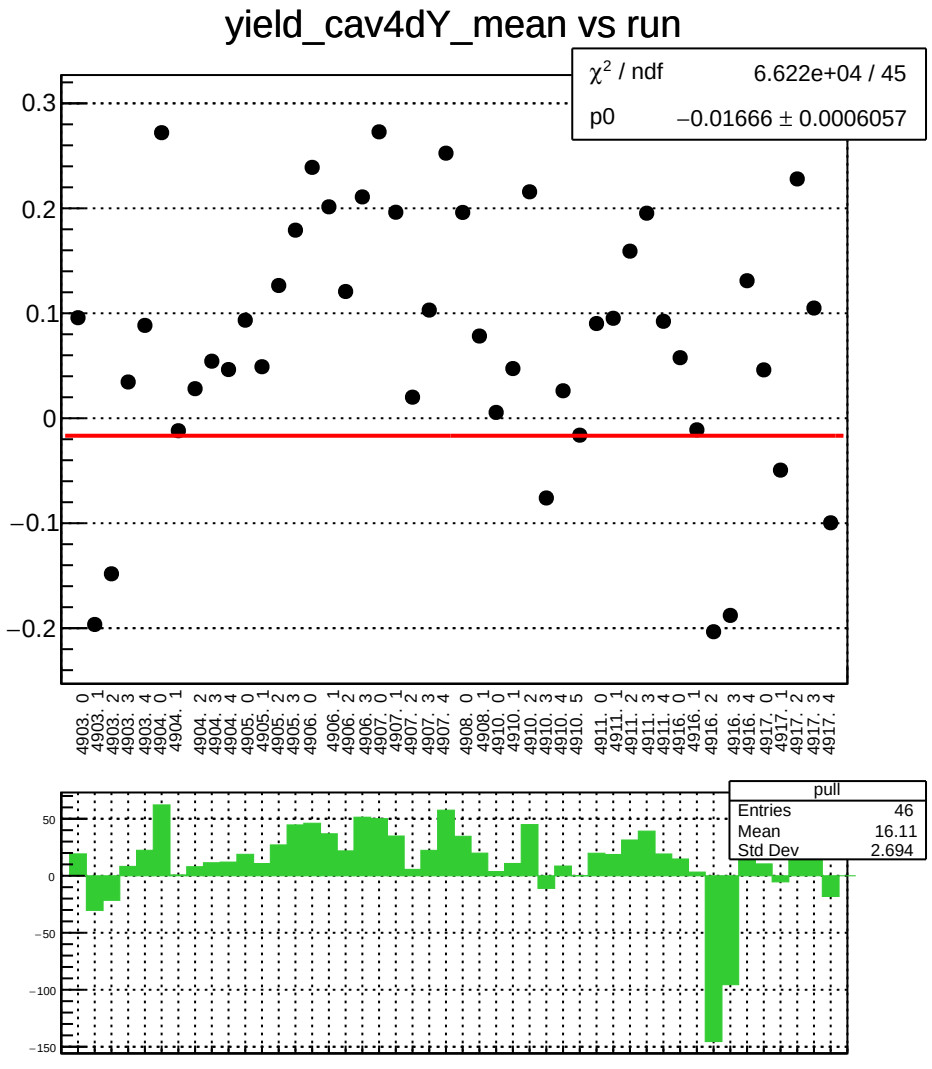

yield_cav4cY_mean vs run
χ² / ndf 1.537e+04 / 45
p0 −0.08131 ± 9.855e−06
−0.075
−0.08
−0.085
−0.09
−0.095
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −16.84
Std Dev 42.8
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −0.4487
Std Dev 4.331
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

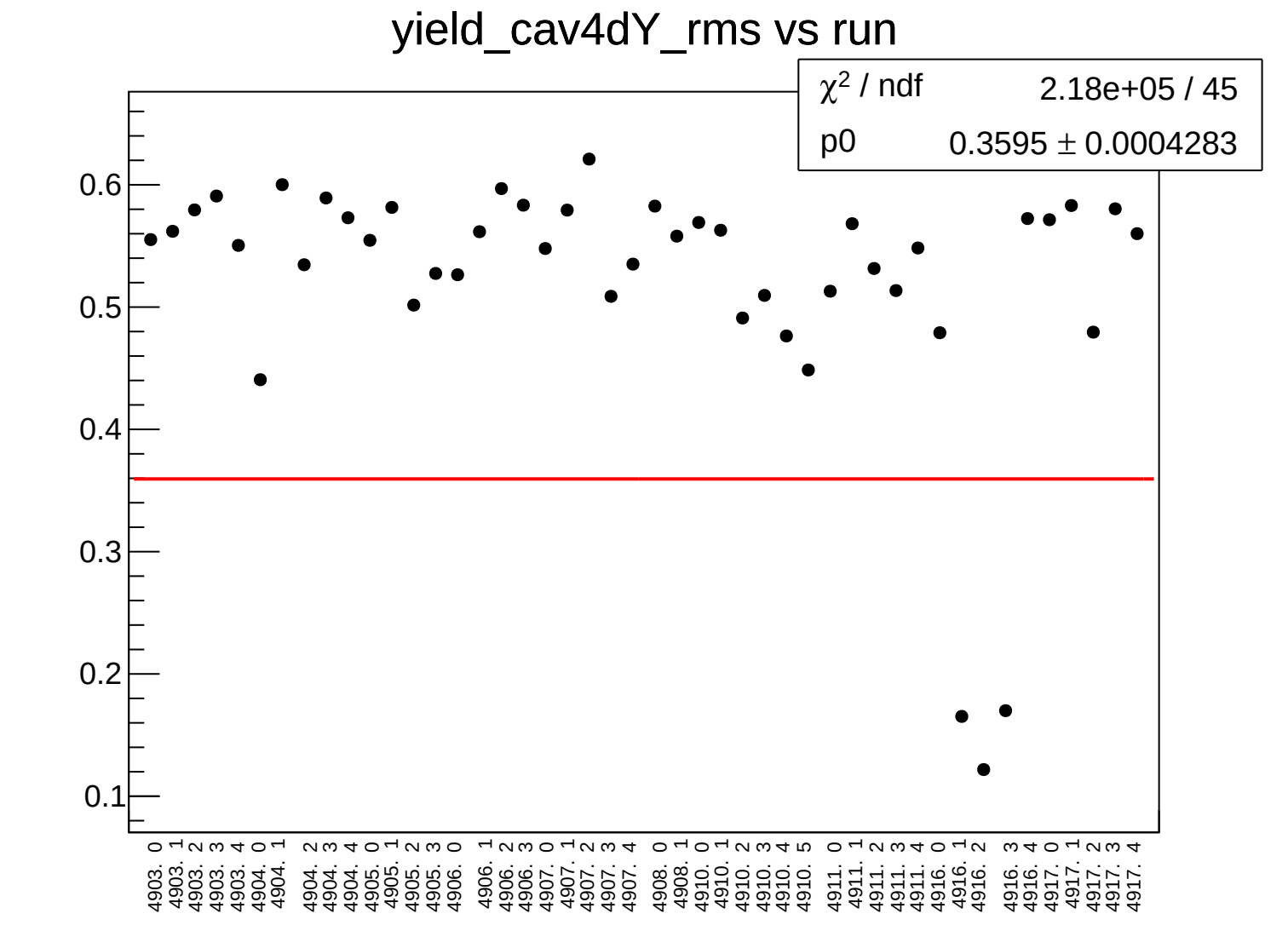

yield_cav4cY_rms vs run
χ² / ndf 1.339e+05 / 45
p0 0.006188 ± 6.968e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

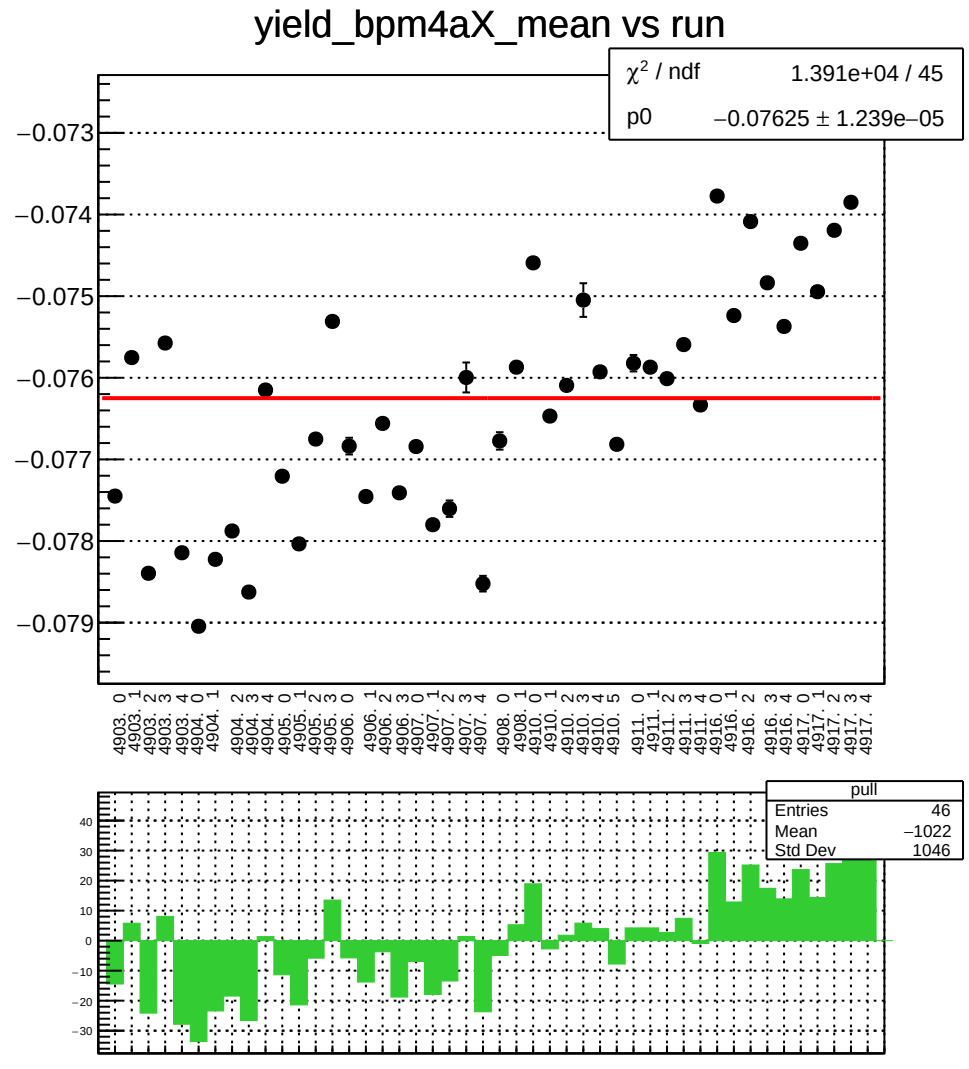

yield_cav4dX_mean vs run
χ² / ndf 6.746e+04 / 45
p0 7.041± 1.137e−06
pull
Entries 46
Mean 23.23
Std Dev 12.15

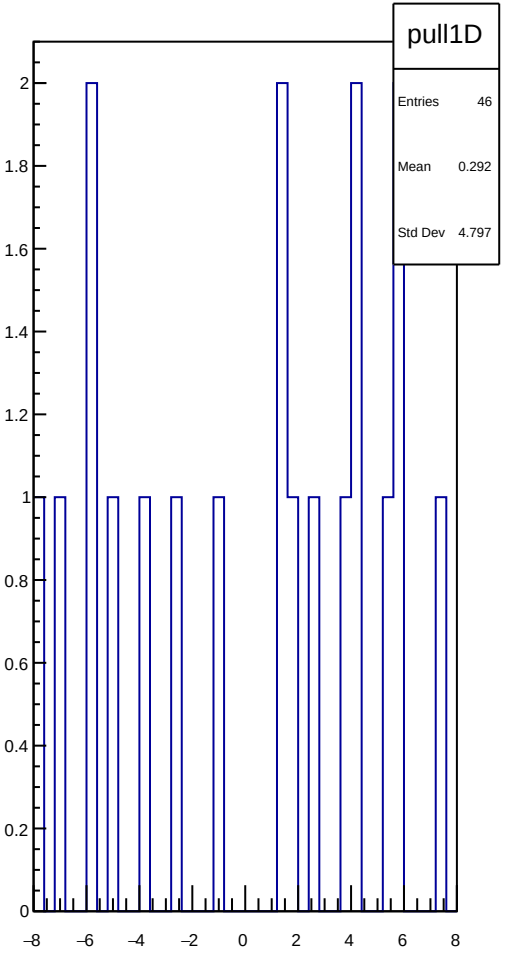

pull1D
Entries 46
Mean 0
Std Dev 0

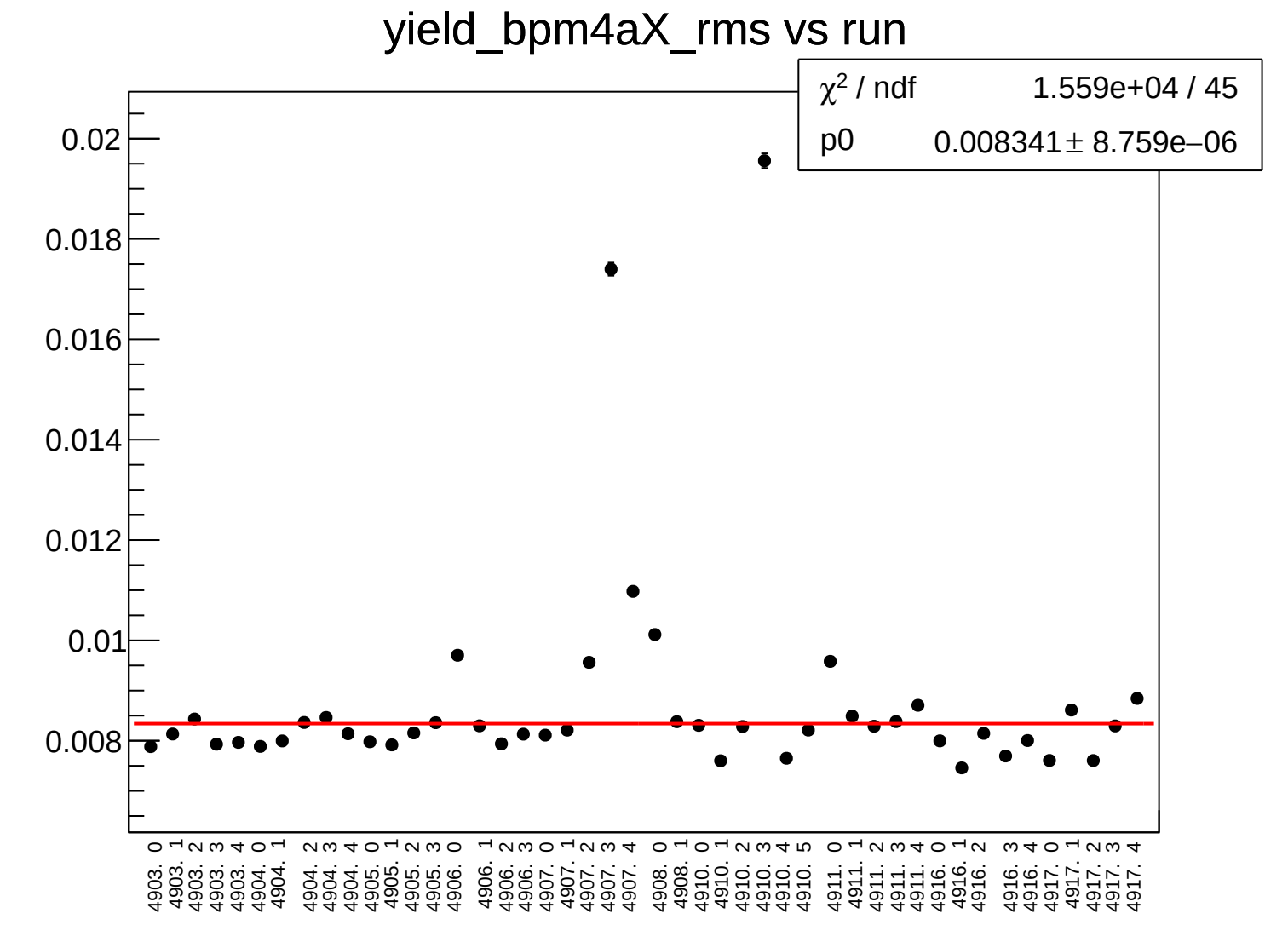

yield_cav4dX_rms vs run
χ² / ndf 8.864e+05 / 45
p0 0.0001527 ± 8.041e−07
5
4
3
2
1
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

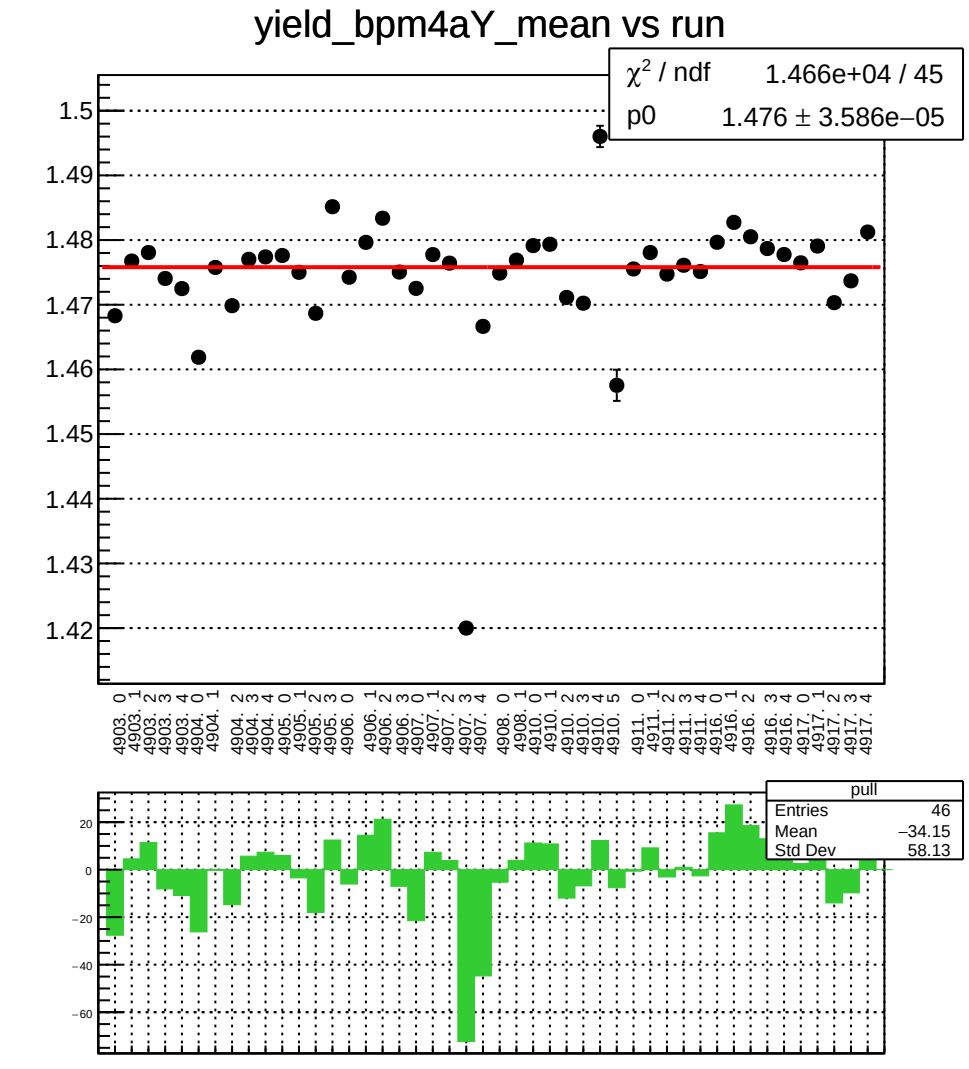

yield_cav4dY_mean vs run
χ² / ndf 6.622e+04 / 45
p0 −0.01666 ± 0.0006057
0.3
0.2
0.1
0
−0.1
−0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 16.11
Std Dev 2.694
50
0
−50
−100
−150
pull1D
Entries 46
Mean 2.295
Std Dev 3.984
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

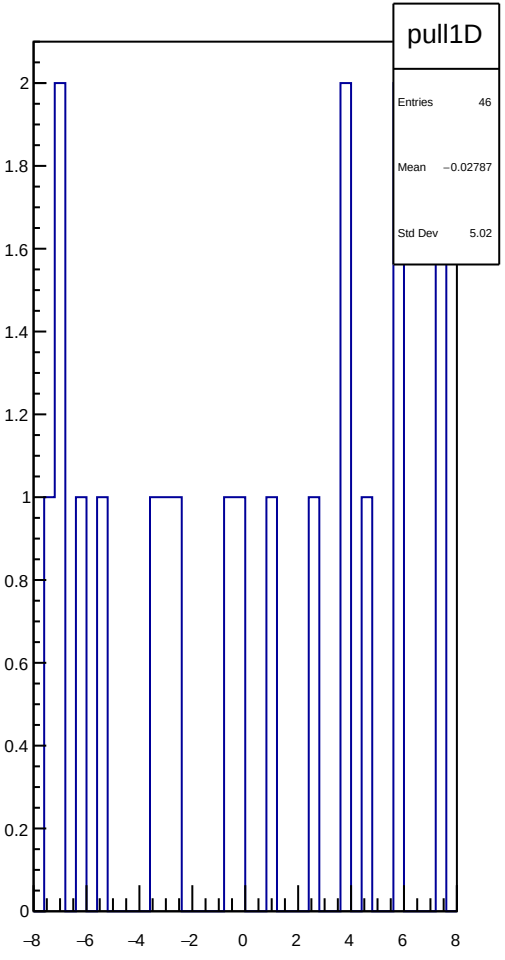

yield_cav4dY_rms vs run
χ² / ndf 2.18e+05 / 45
p0 0.3595 ± 0.0004283
0.6
0.5
0.4
0.3
0.2
0.1
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

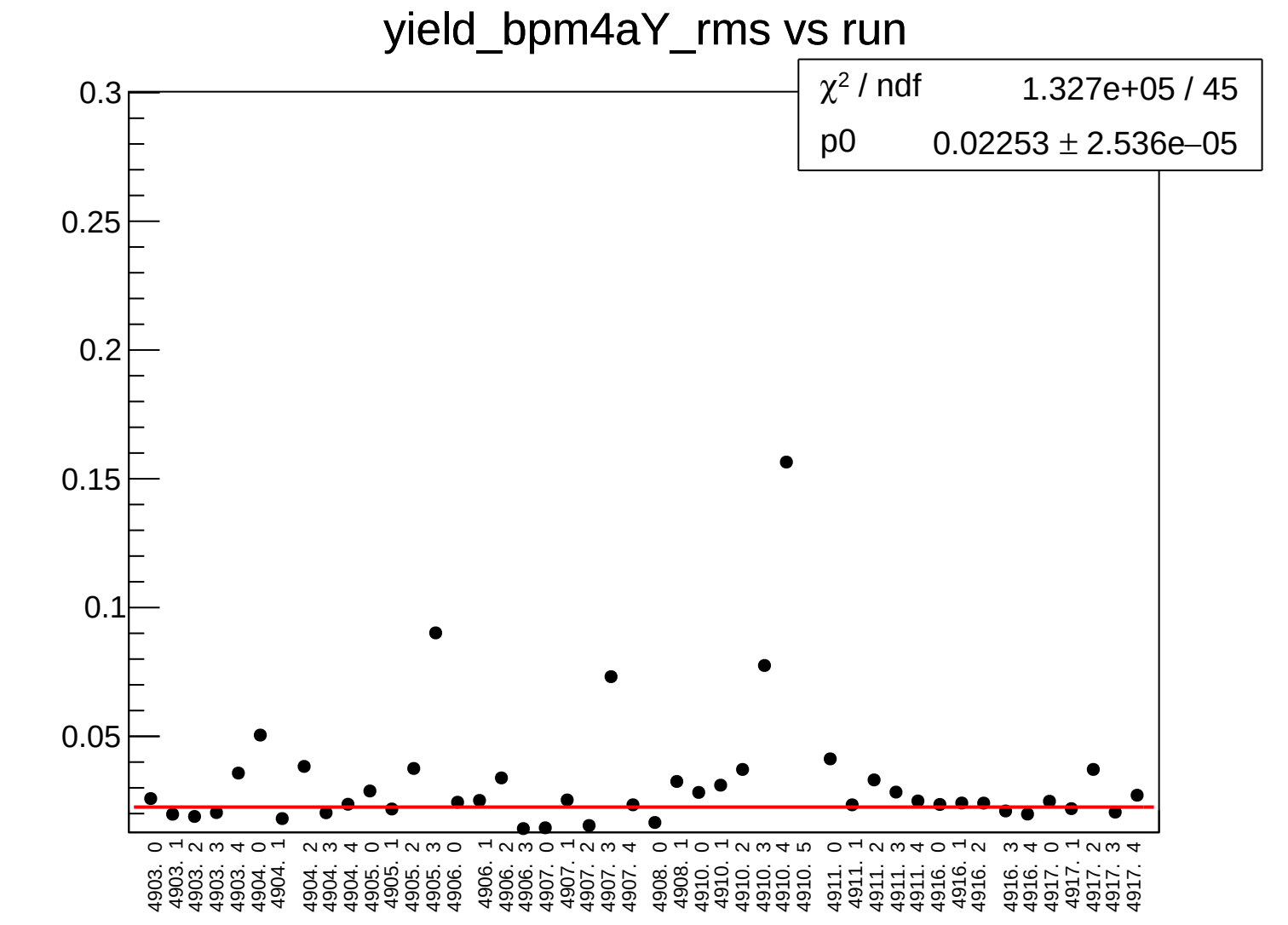

yield_bpm4aX_mean vs run
χ² / ndf 1.391e+04 / 45
p0 −0.07625 ± 1.239e−05
−0.073
−0.074
−0.075
−0.076
−0.077
−0.078
−0.079
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1022
Std Dev 1046
40
30
20
10
0
−10
−20
−30

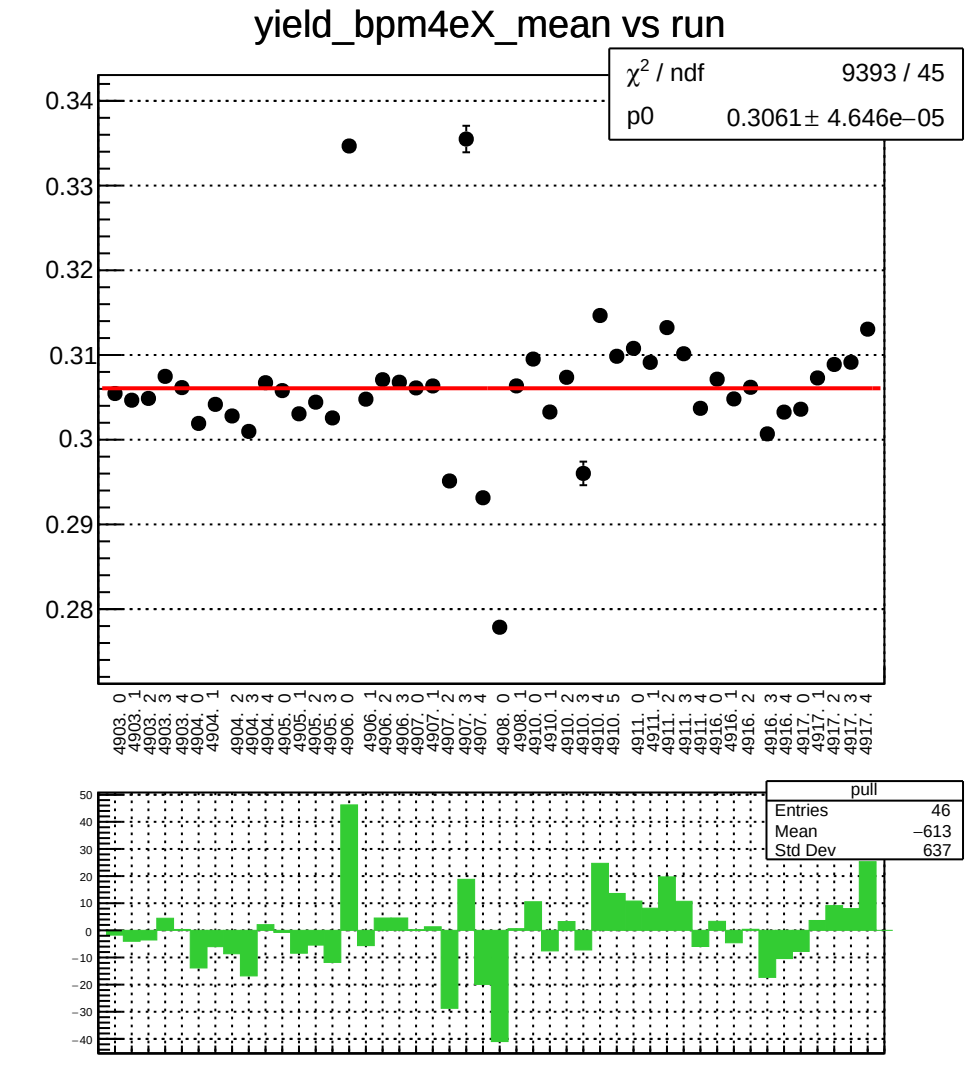

pull1D
Entries 46
Mean 0.292
Std Dev 4.797
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

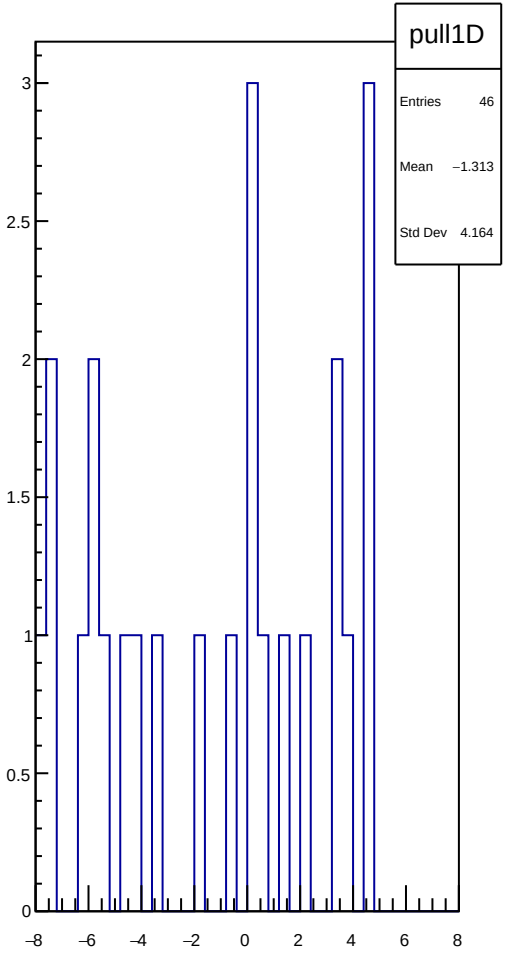

yield_bpm4aX_rms vs run
χ² / ndf 1.559e+04 / 45
p0 0.008341 ± 8.759e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

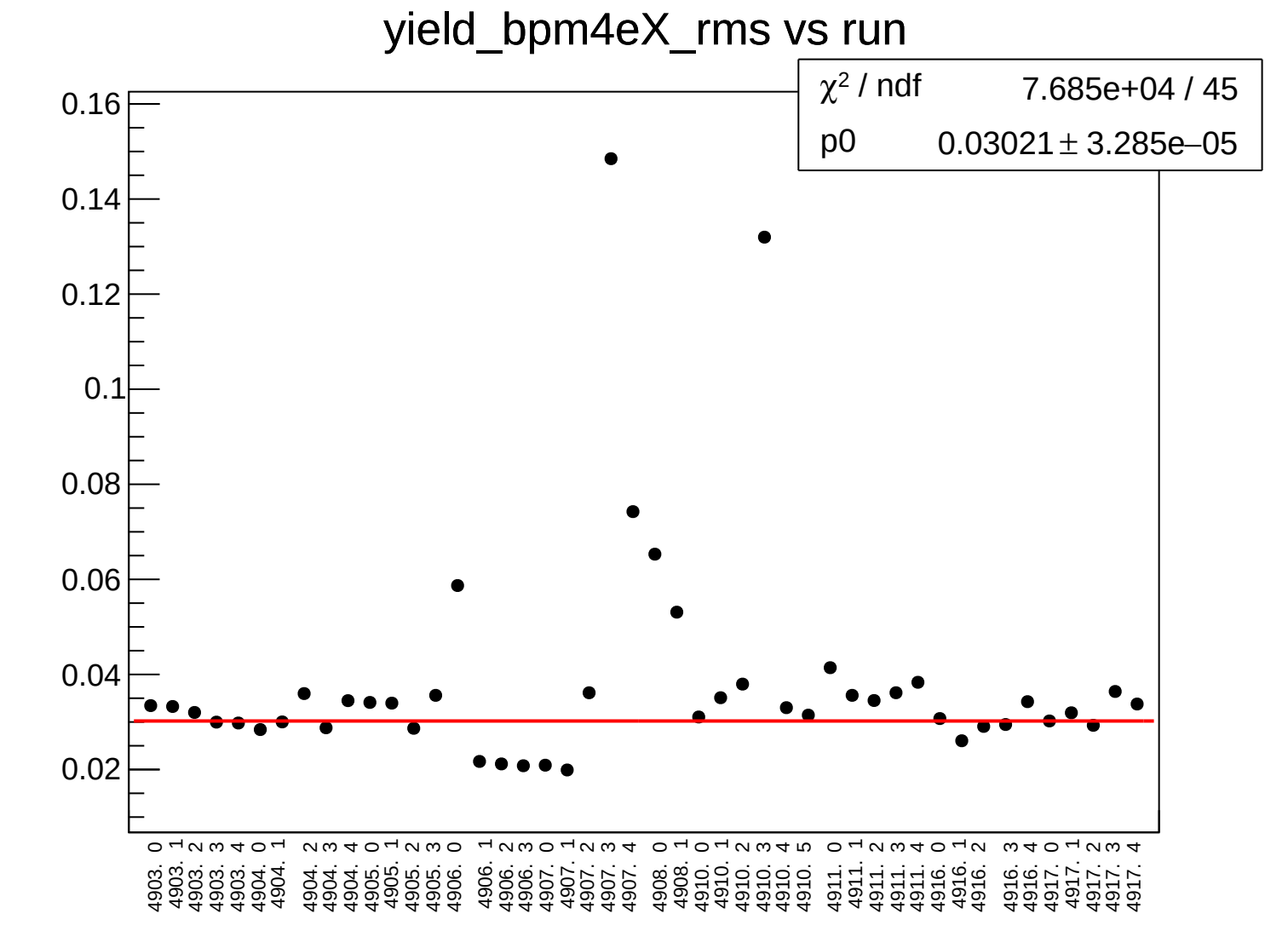

yield_bpm4aY_mean vs run
χ² / ndf 1.466e+04 / 45
p0 1.476 ± 3.586e−05
pull
Entries 46
Mean −34.15
Std Dev 58.13

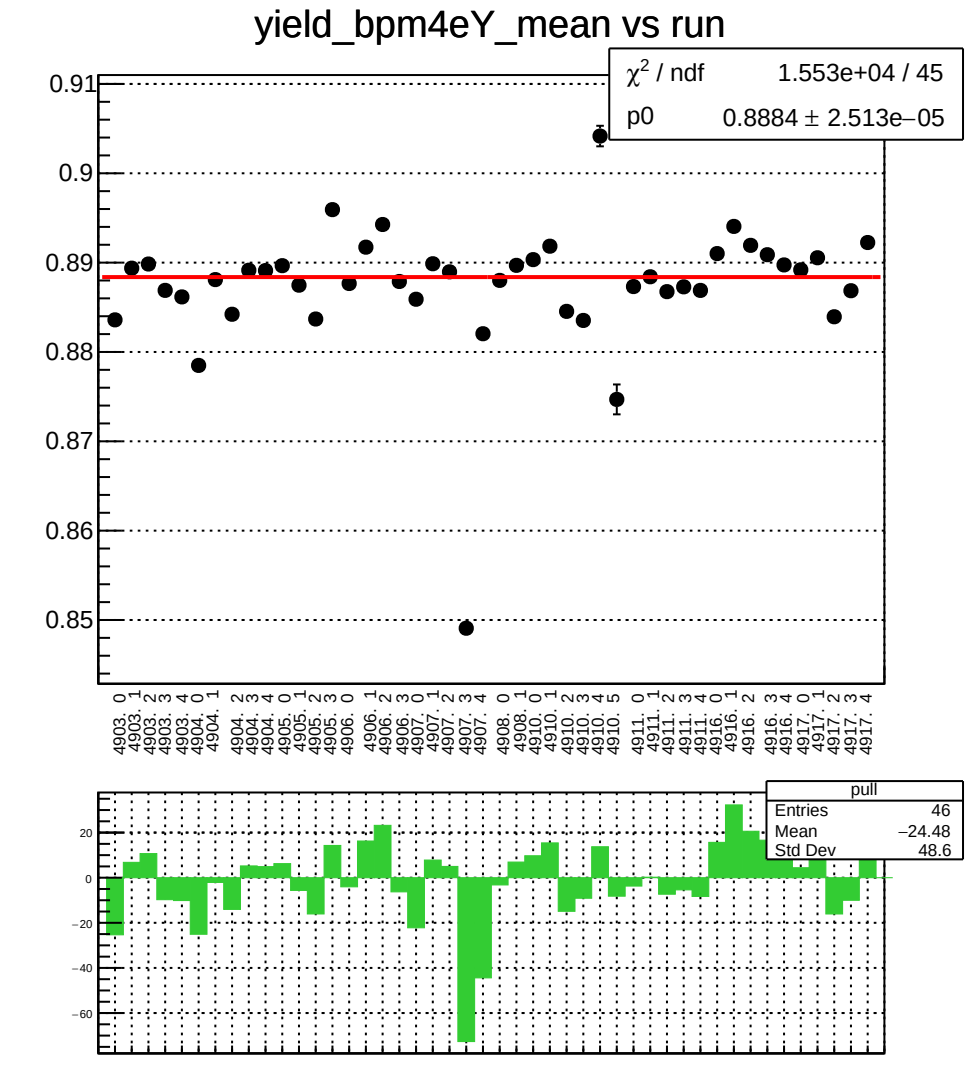

pull1D
Entries 46
Mean −0.02787
Std Dev 5.02

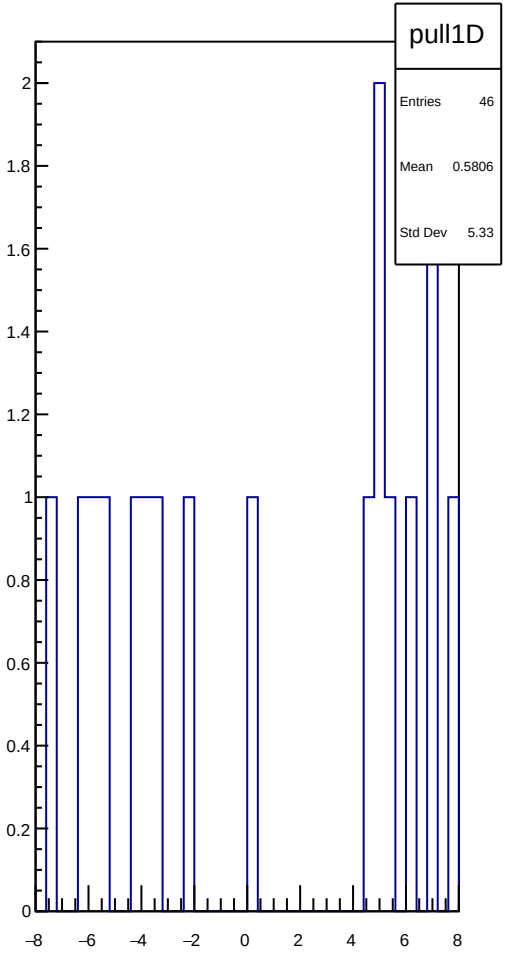

yield_bpm4aY_rms vs run
χ² / ndf 1.327e+05 / 45
p0 0.02253 ± 2.536e−05
0.3
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

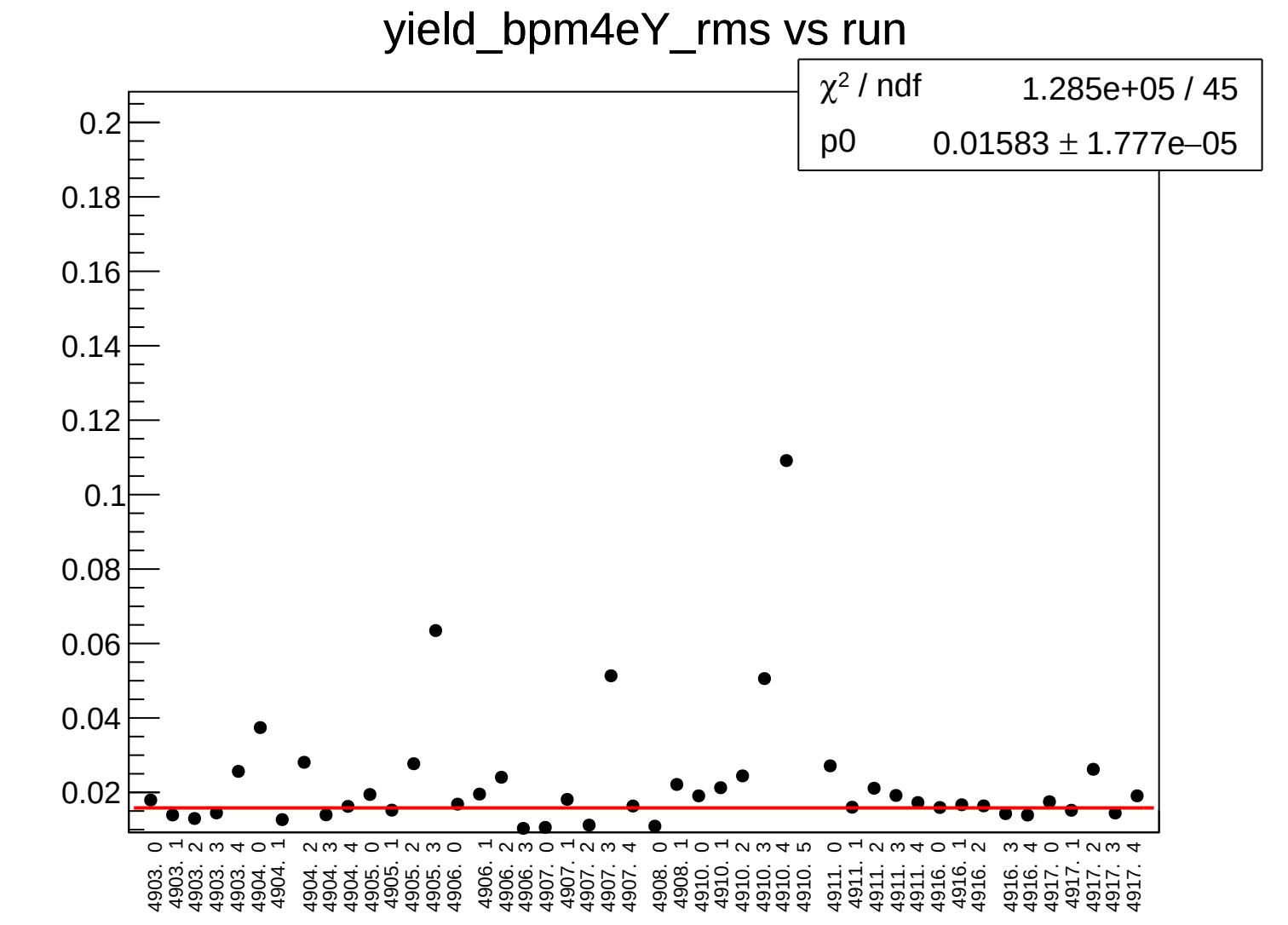

yield_bpm4eX_mean vs run
χ² / ndf 9393 / 45
p0 0.3061 ± 4.646e−05
0.34
0.33
0.32
0.31
0.3
0.29
0.28
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −613
Std Dev 637
50
40
30
20
10
0
−10
−20
−30
−40

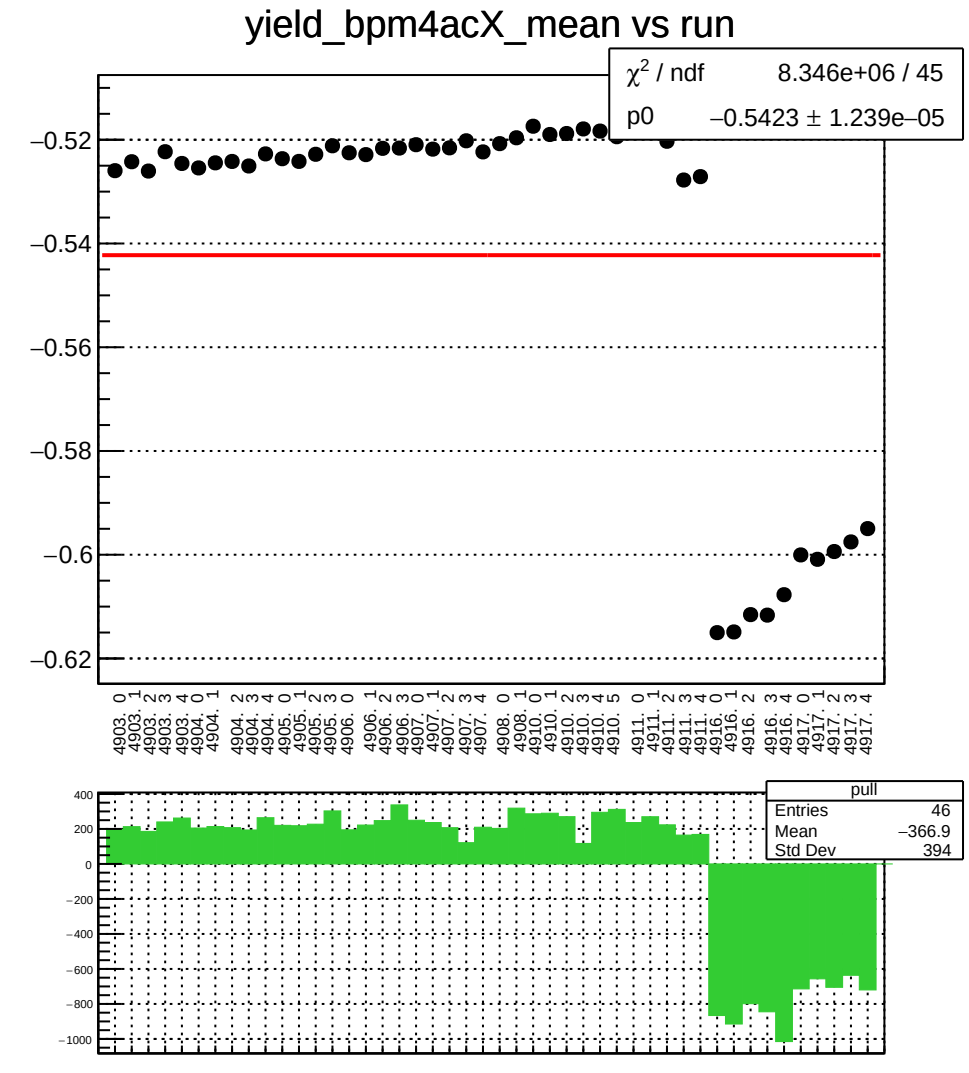

pull1D
Entries 46
Mean −1.313
Std Dev 4.164
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

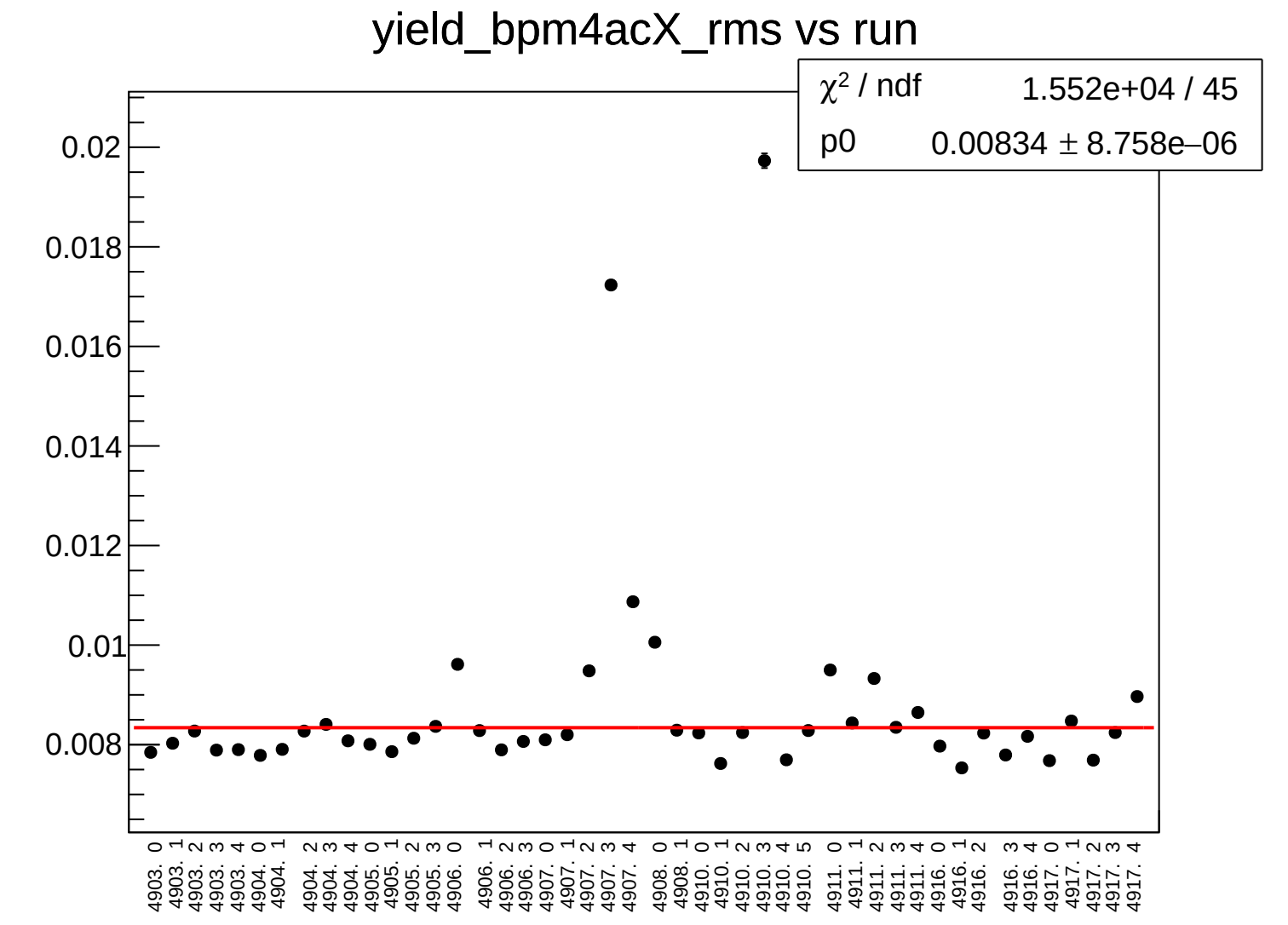

yield_bpm4eX_rms vs run
χ² / ndf 7.685e+04 / 45
p0 0.03021 ± 3.285e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

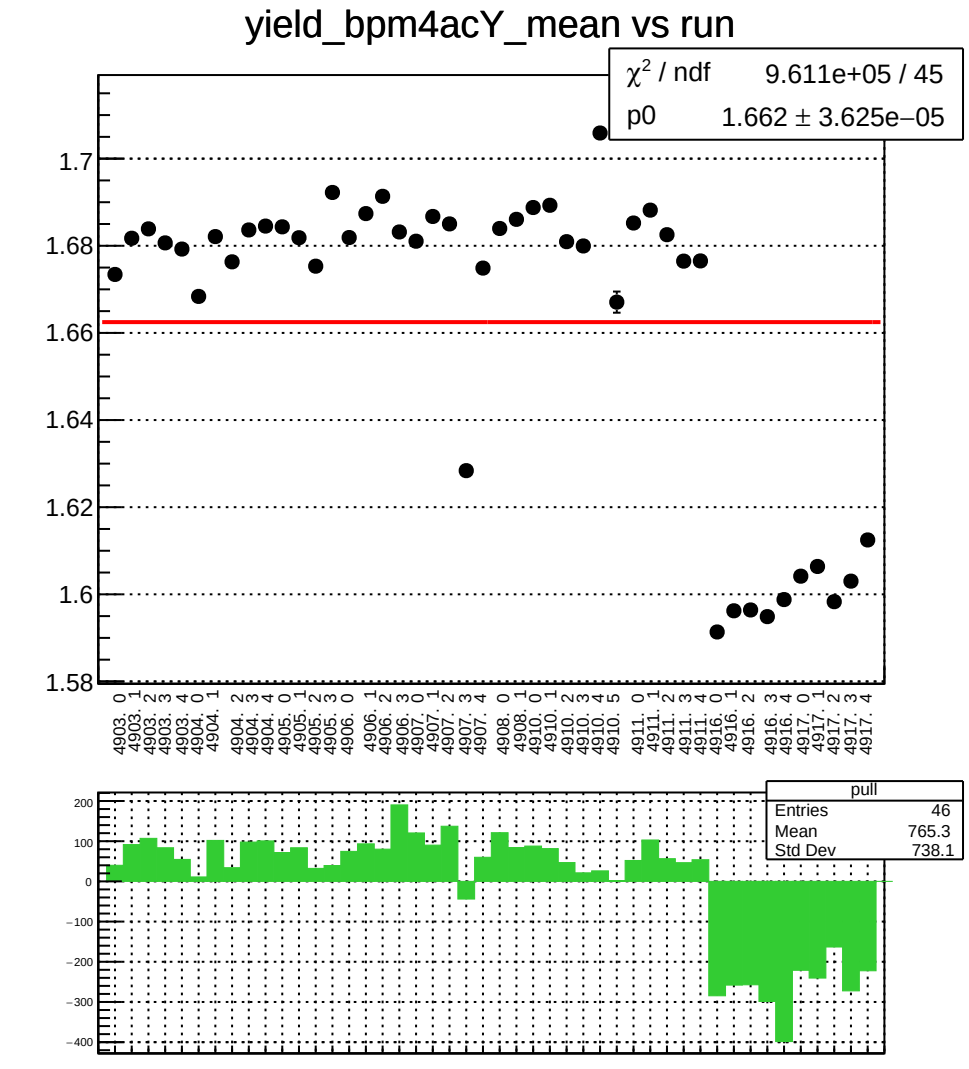

yield_bpm4eY_mean vs run
χ² / ndf 1.553e+04 / 45
p0 0.8884 ± 2.513e−05
0.91
0.9
0.89
0.88
0.87
0.86
0.85
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −24.48
Std Dev 48.6
20
0
−20
−40
−60

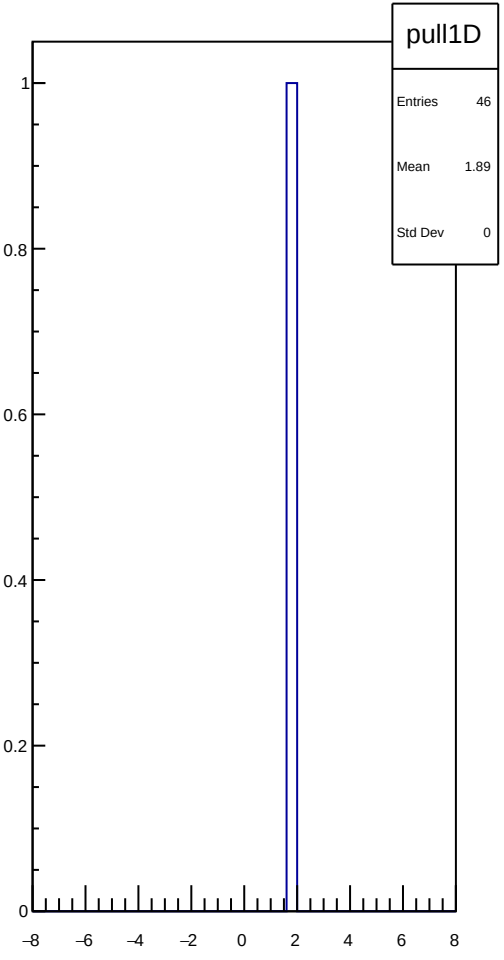

pull1D
Entries 46
Mean 0.5806
Std Dev 5.33
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

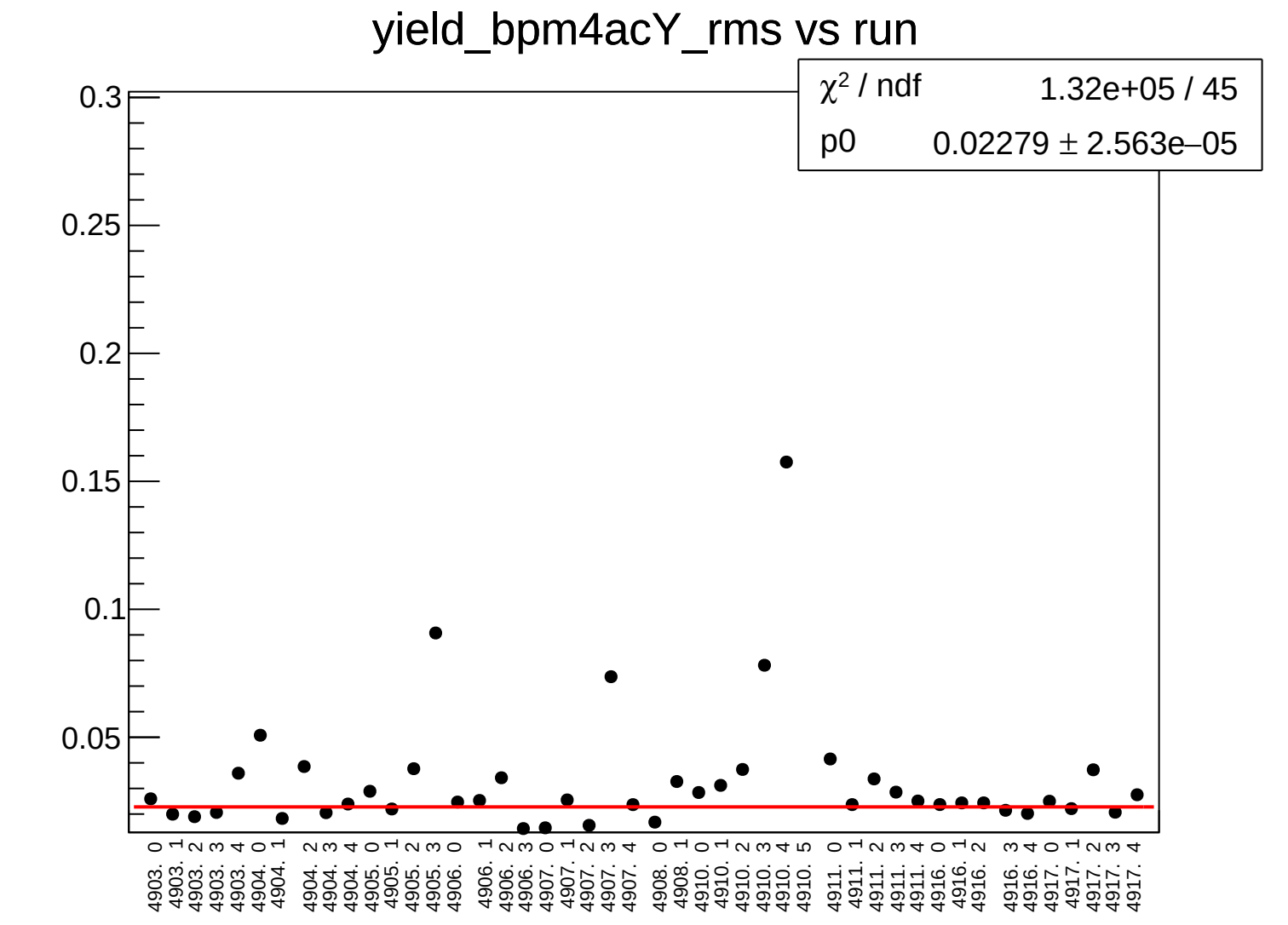

yield_bpm4eY_rms vs run
χ² / ndf 1.285e+05 / 45
p0 0.01583 ± 1.777e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

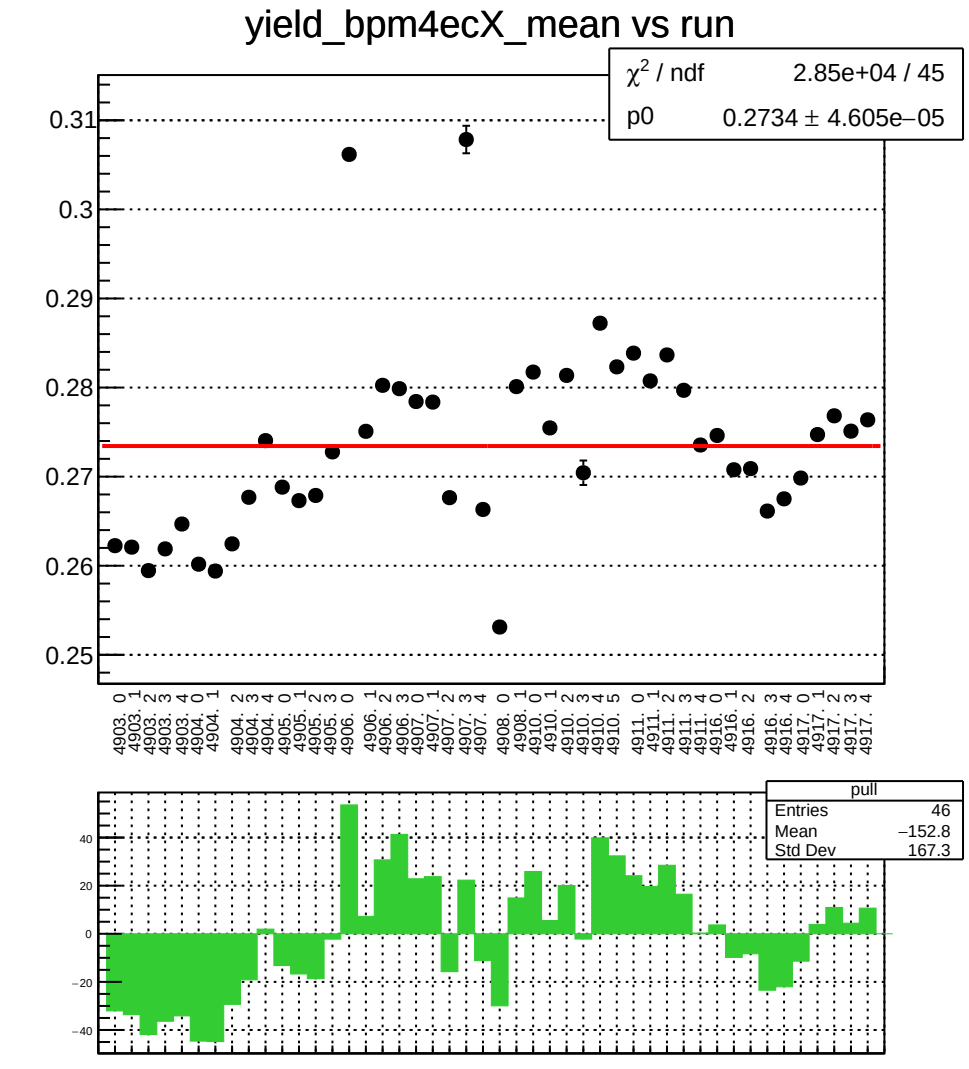

yield_bpm4acX_mean vs run
χ² / ndf 8.346e+06 / 45
p0 −0.5423 ± 1.239e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −366.9
Std Dev 394
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

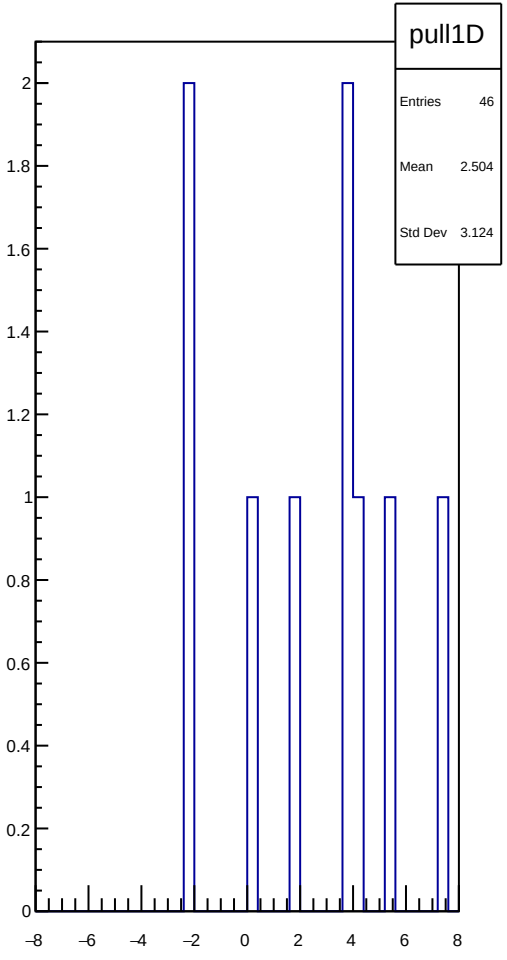

yield_bpm4acX_rms vs run
χ² / ndf 1.552e+04 / 45
p0 0.00834 ± 8.758e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

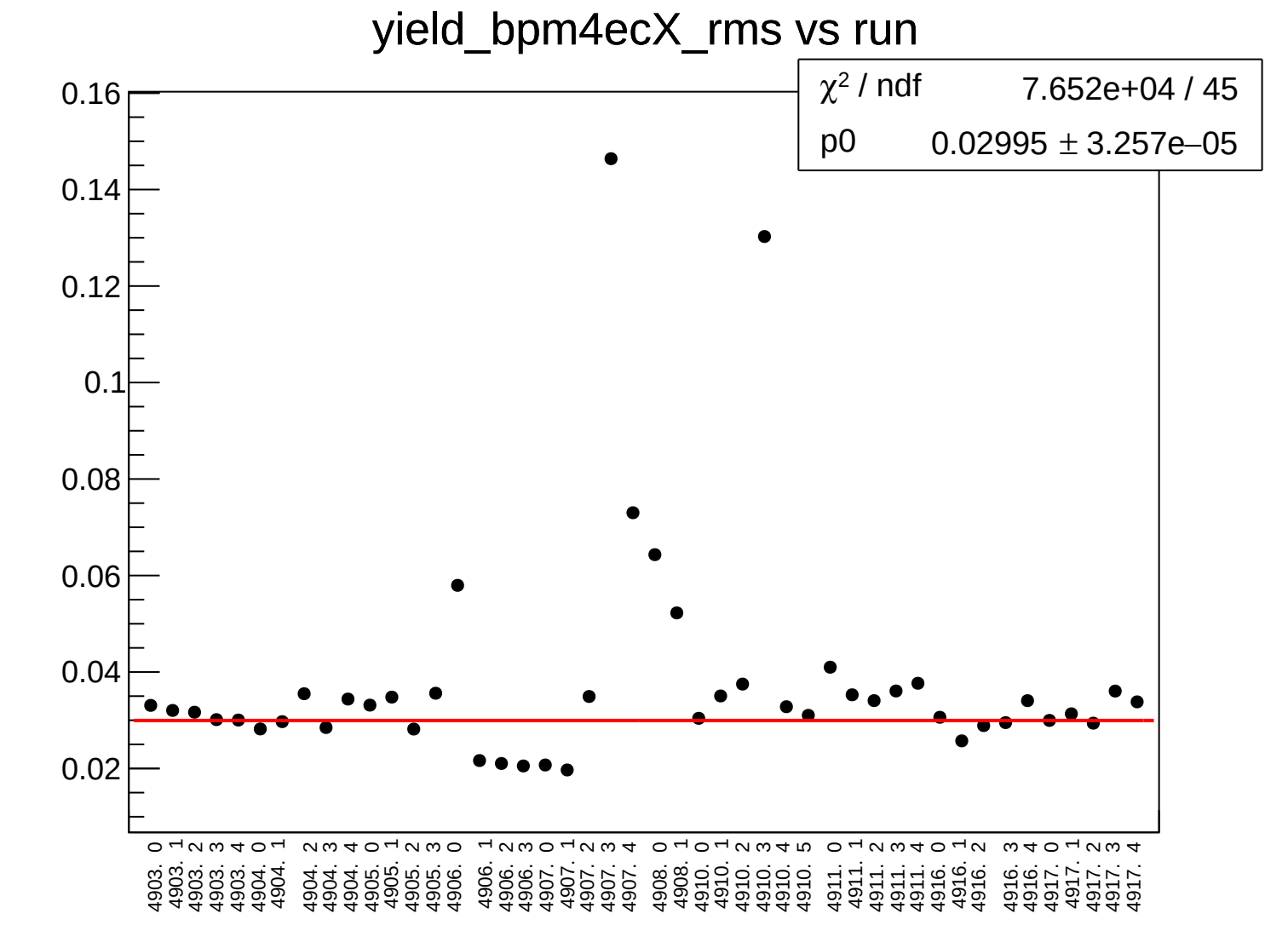

yield_bpm4acY_mean vs run
χ² / ndf 9.611e+05 / 45
p0 1.662 ± 3.625e−05
1.7
1.68
1.66
1.64
1.62
1.6
1.58
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 765.3
Std Dev 738.1
200
100
0
−100
−200
−300
−400

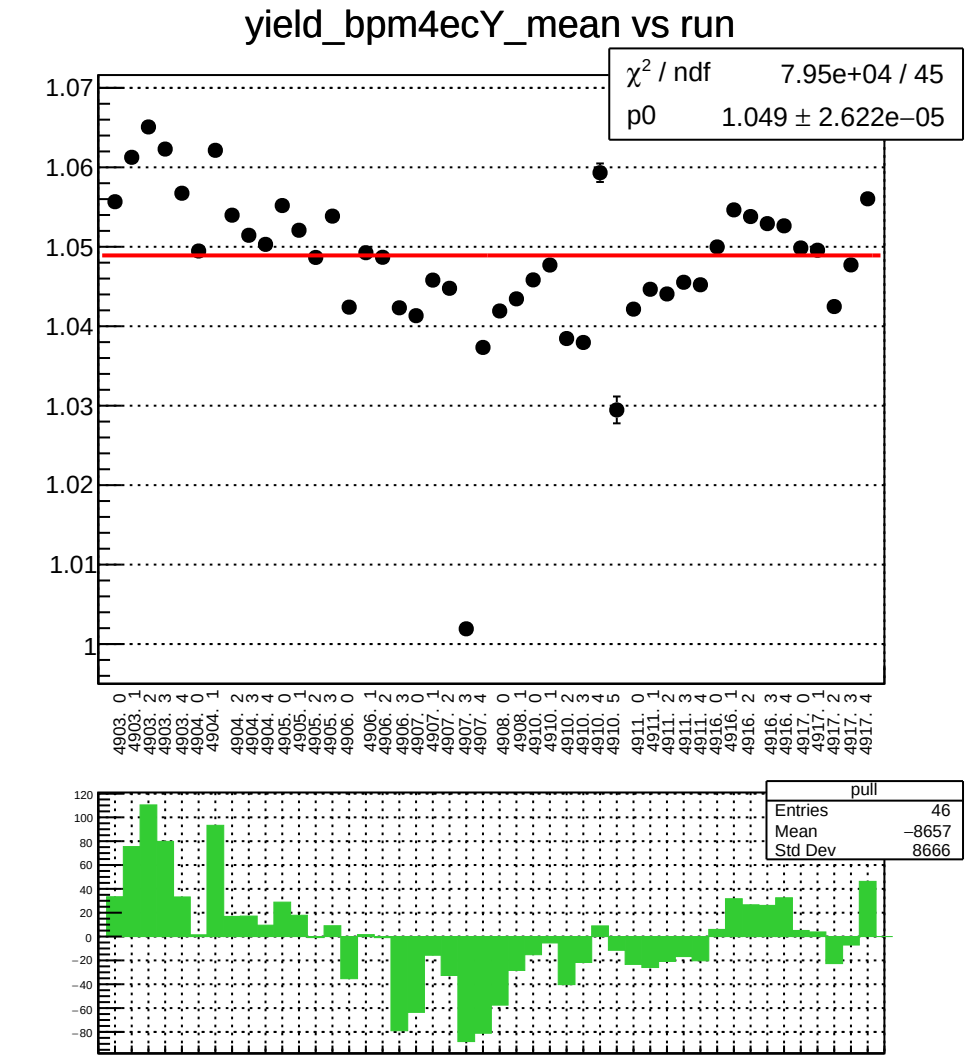

pull1D
Entries 46
Mean 1.89
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

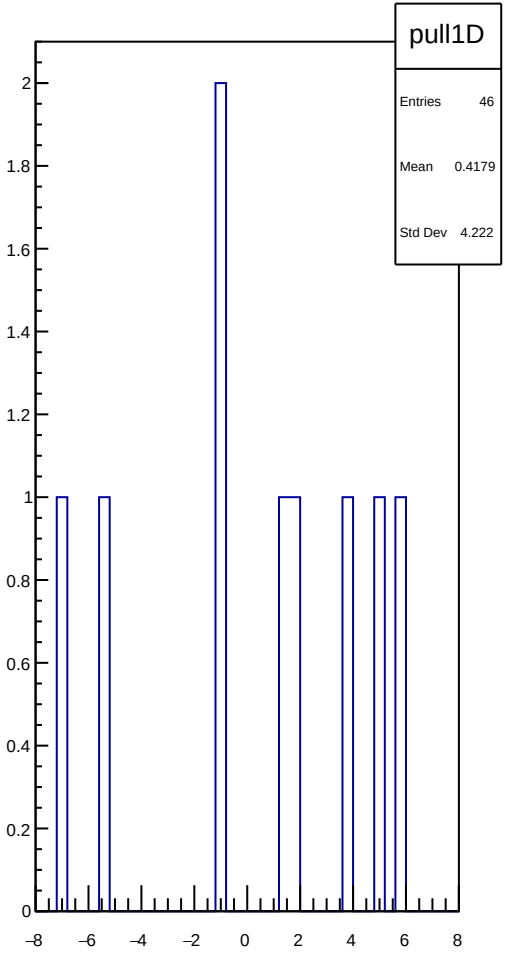

yield_bpm4acY_rms vs run
χ² / ndf 1.32e+05 / 45
p0 0.02279 ± 2.563e−05
0.3
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

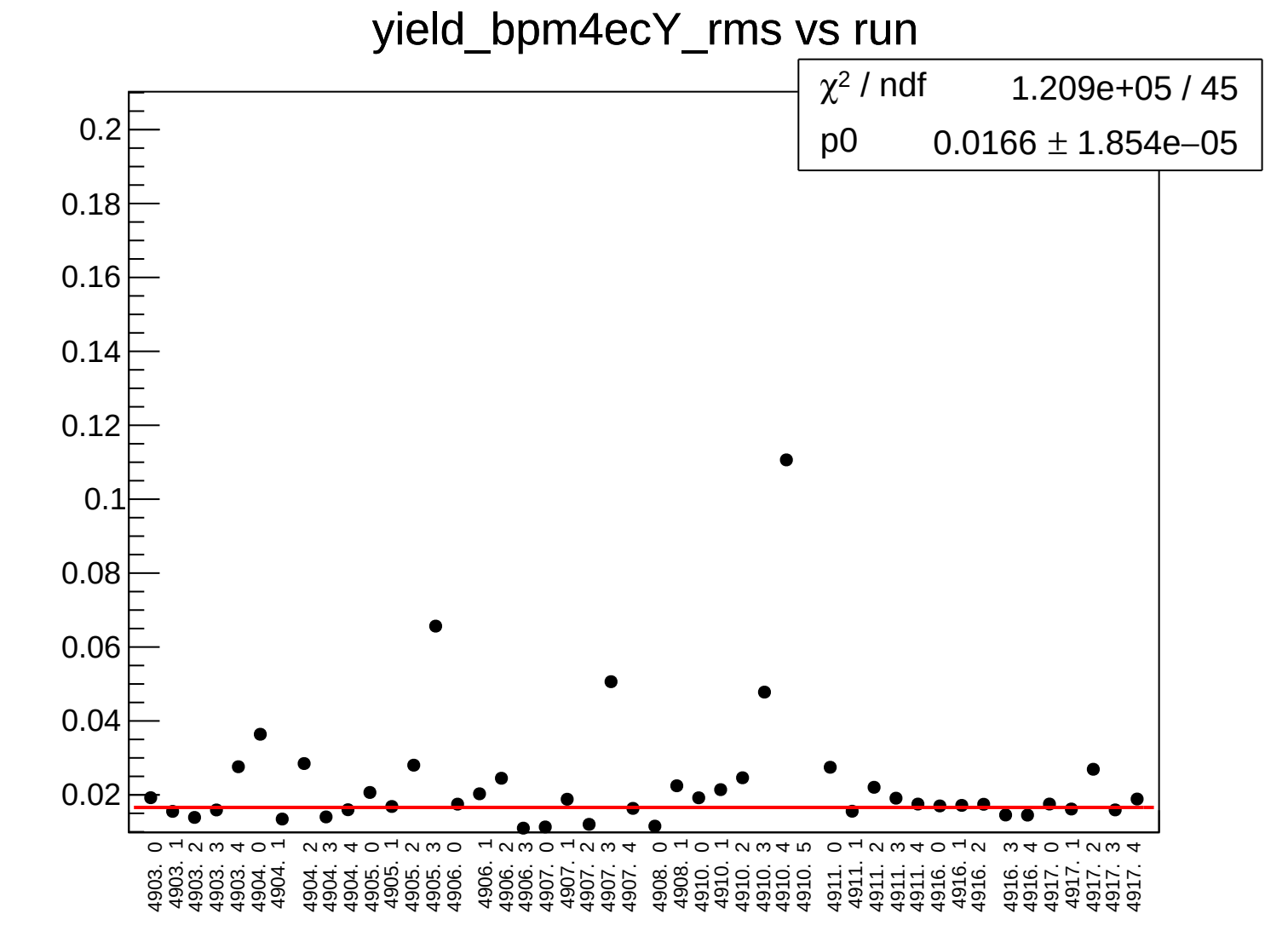

yield_bpm4ecX_mean vs run
χ² / ndf 2.85e+04 / 45
p0 0.2734 ± 4.605e−05
0.31
0.3
0.29
0.28
0.27
0.26
0.25
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −152.8
Std Dev 167.3
40
20
0
−20
−40

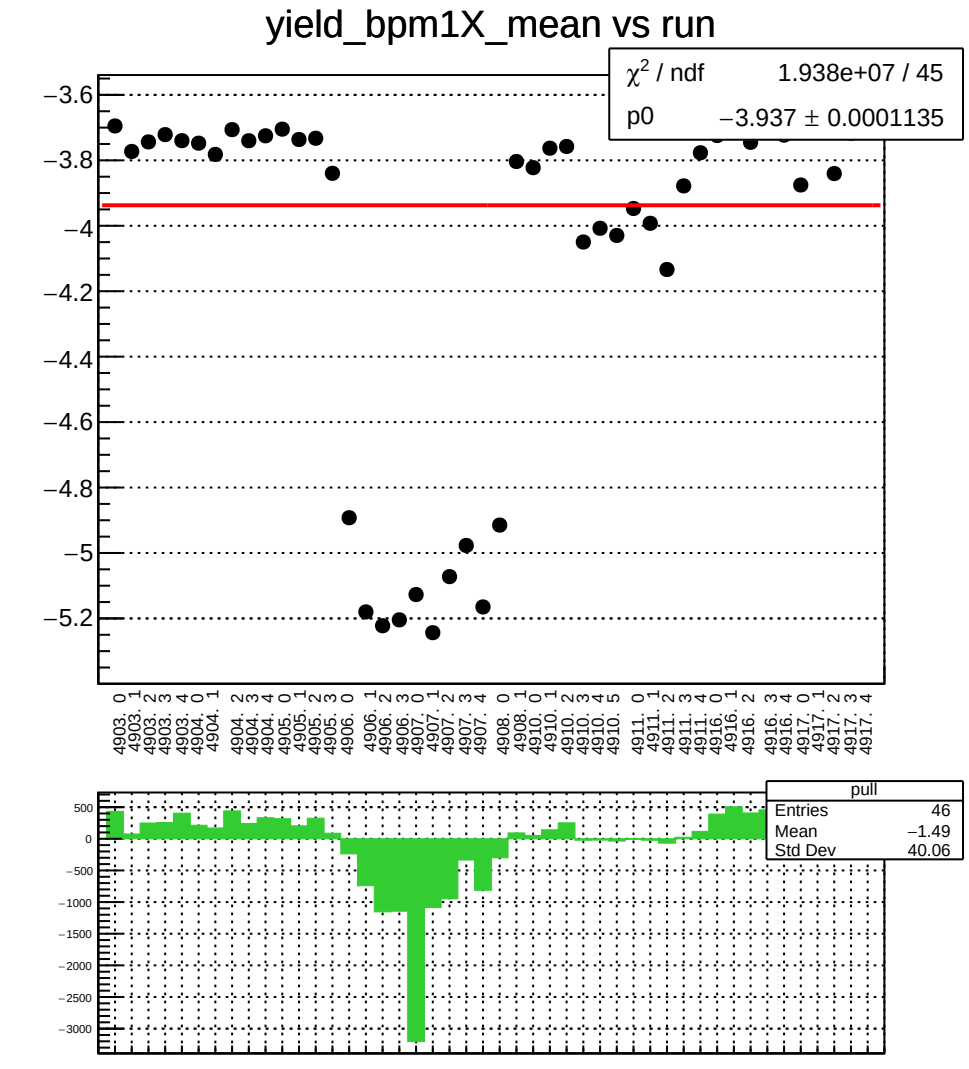

pull1D
Entries 46
Mean 2.504
Std Dev 3.124
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

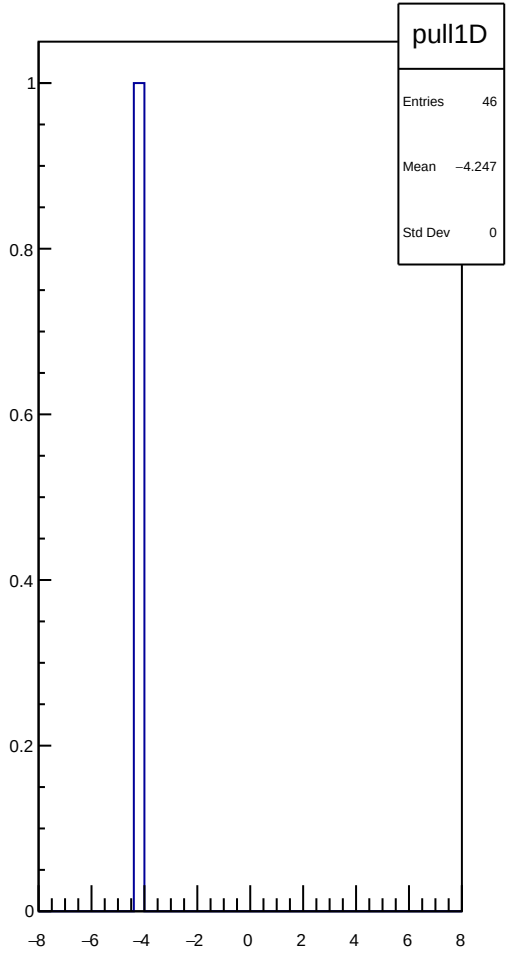

yield_bpm4ecX_rms vs run
χ² / ndf 7.652e+04 / 45
p0 0.02995 ± 3.257e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

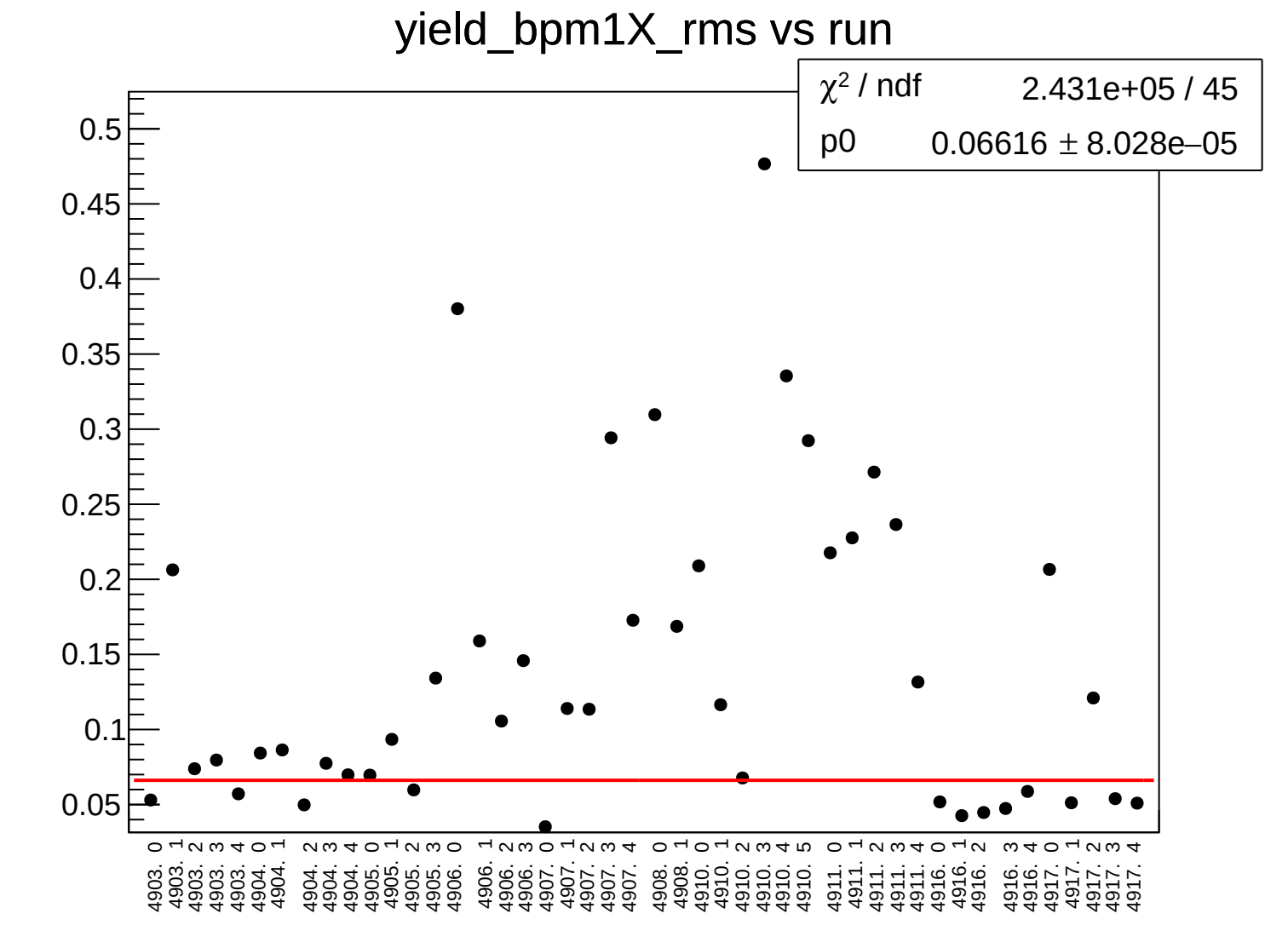

yield_bpm4ecY_mean vs run
χ² / ndf 7.95e+04 / 45
p0 1.049 ± 2.622e−05
pull
Entries 46
Mean −8657
Std Dev 8666

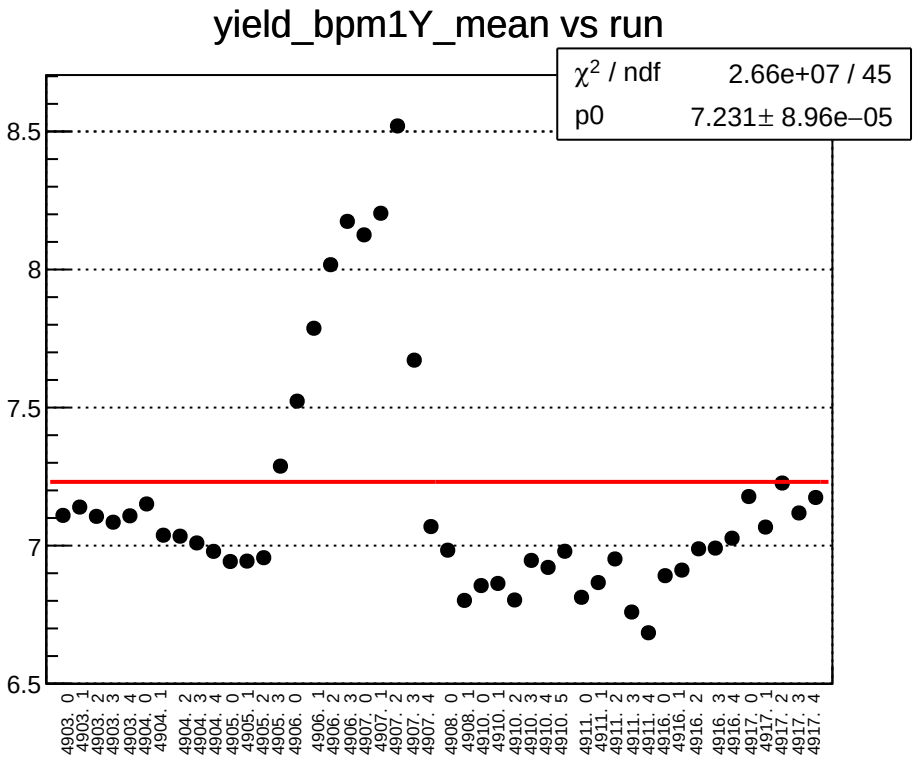

pull1D
Entries 46
Mean 0.4179
Std Dev 4.222

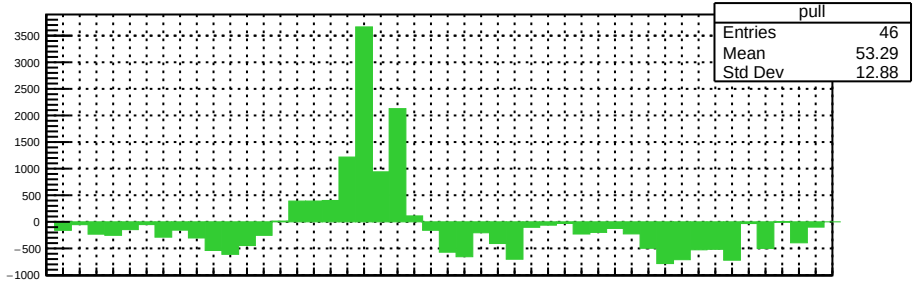

yield_bpm4ecY_rms vs run
χ² / ndf 1.209e+05 / 45
p0 0.0166 ± 1.854e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

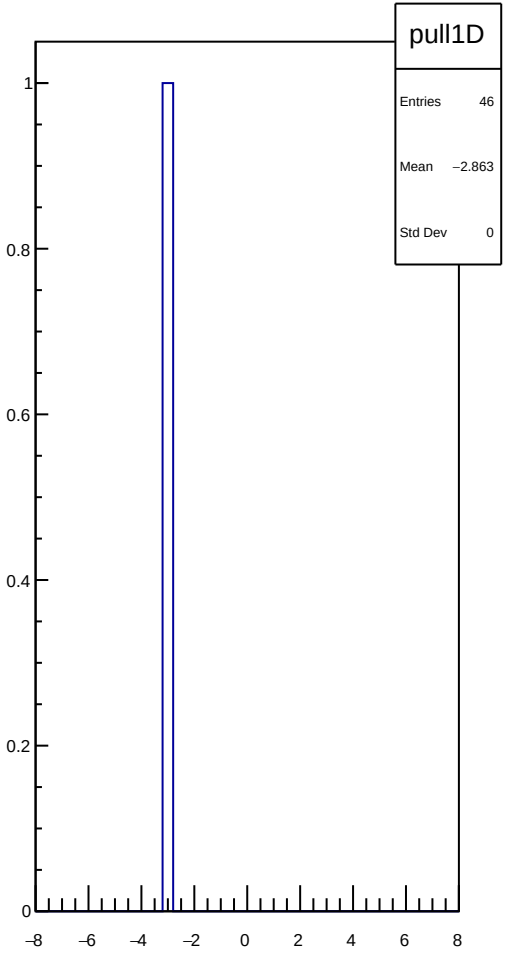

yield_bpm1X_mean vs run
χ² / ndf 1.938e+07 / 45
p0 −3.937 ± 0.0001135
pull
Entries 46
Mean −1.49
Std Dev 40.06

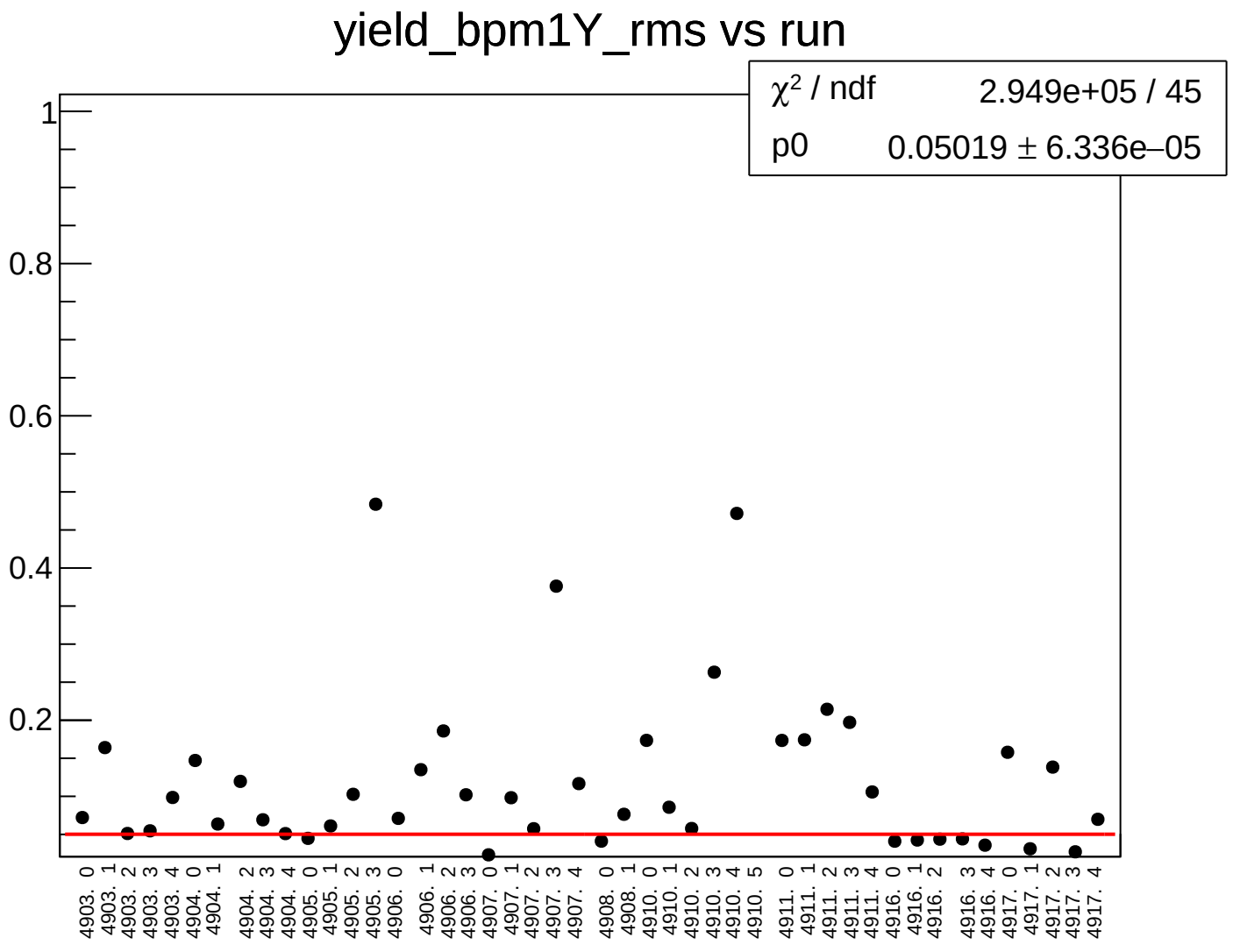

pull1D
Entries 46
Mean −4.247
Std Dev 0

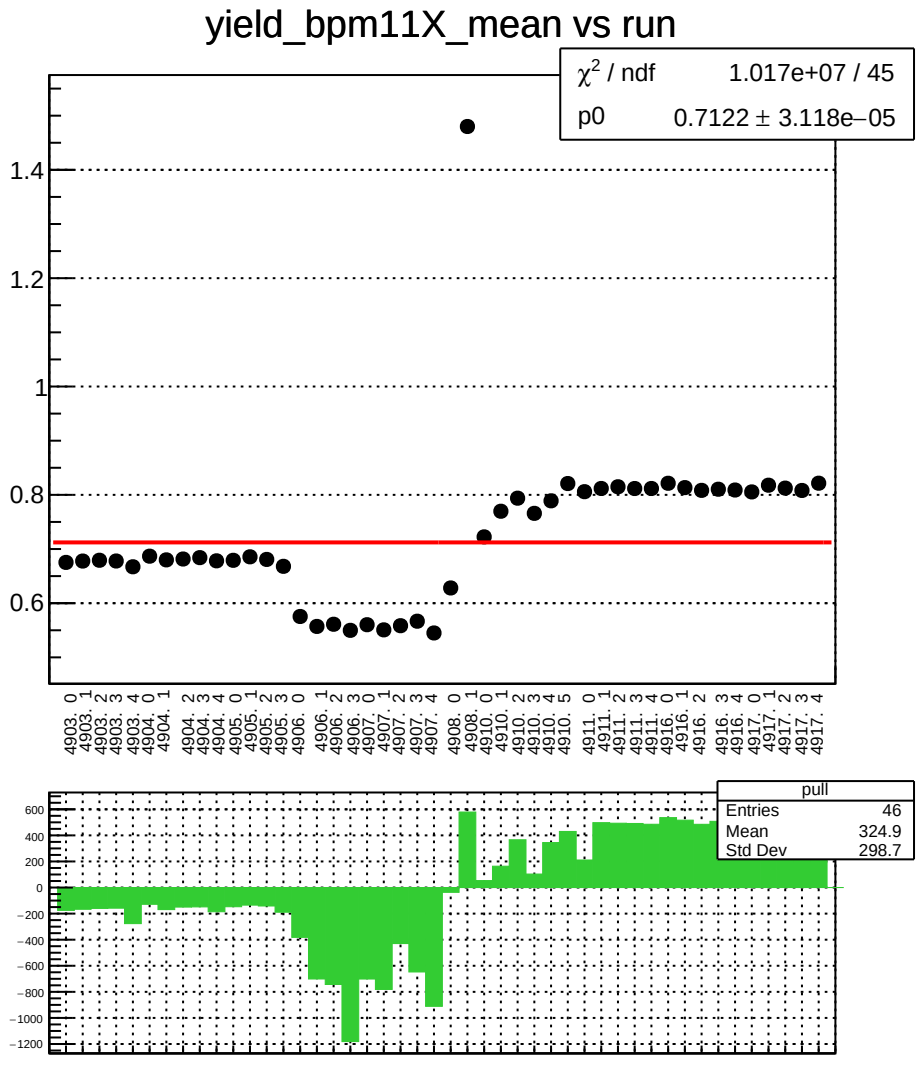

yield_bpm1X_rms vs run
χ² / ndf 2.431e+05 / 45
p0 0.06616 ± 8.028e–05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

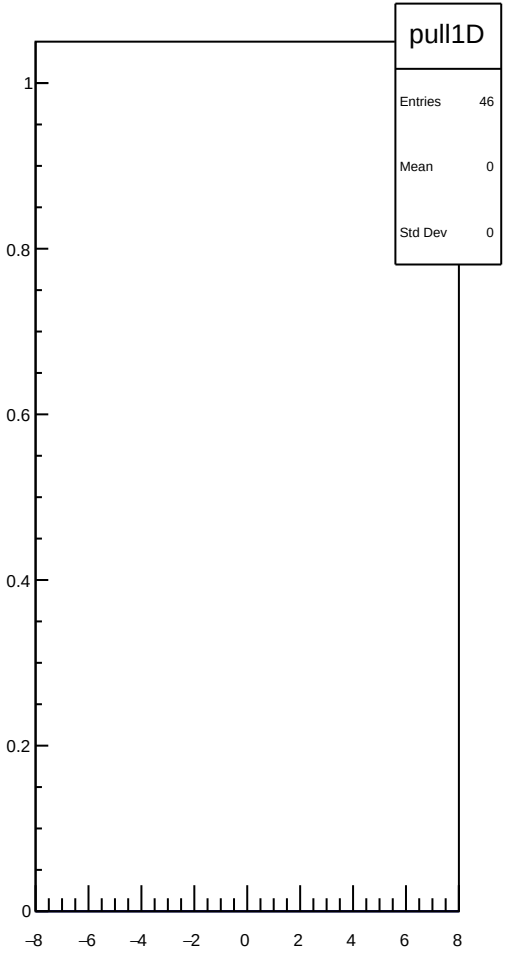

yield_bpm1Y_mean vs run
χ² / ndf 2.66e+07 / 45
p0 7.231± 8.96e−05
8.5
8
7.5
7
6.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

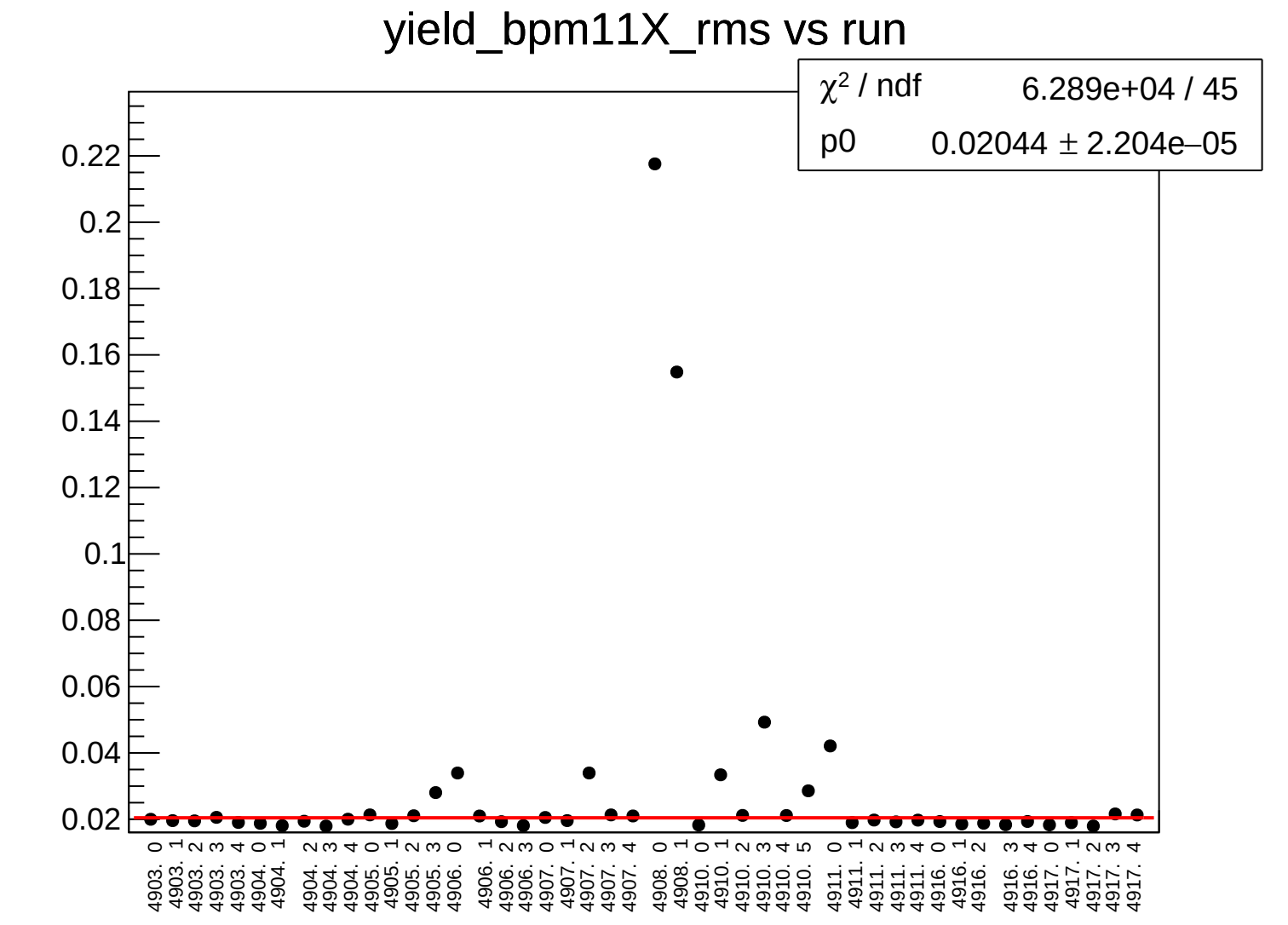

pull
Entries 46
Mean 53.29
Std Dev 12.88
3500
3000
2500
2000
1500
1000
500
0
−500
−1000

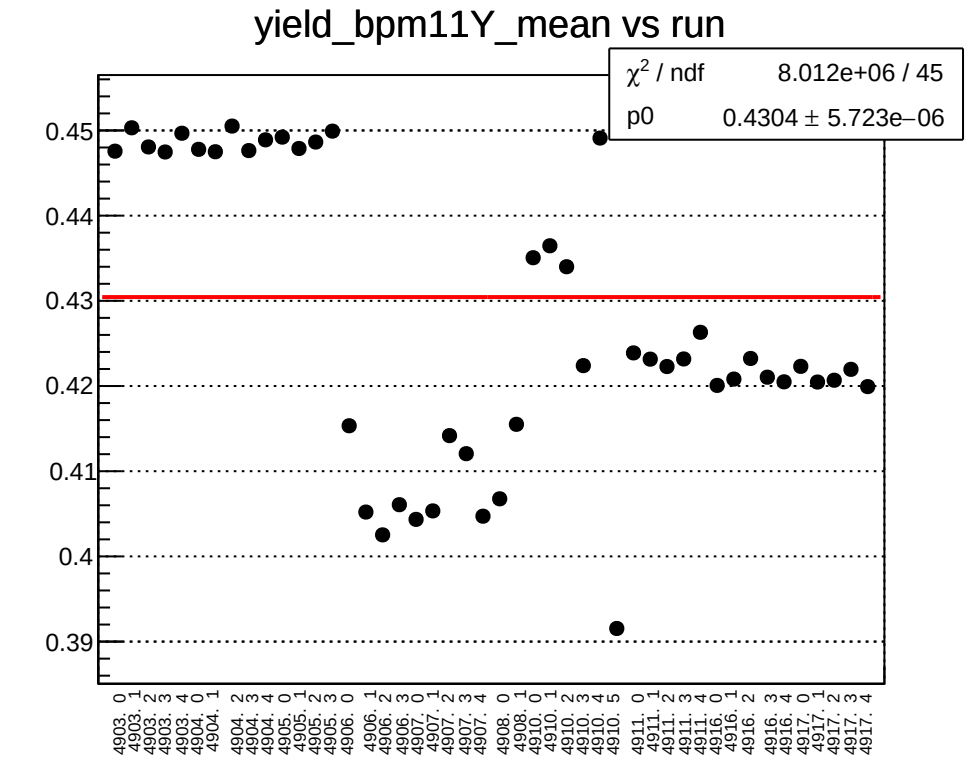

pull1D
Entries 46
Mean −2.863
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

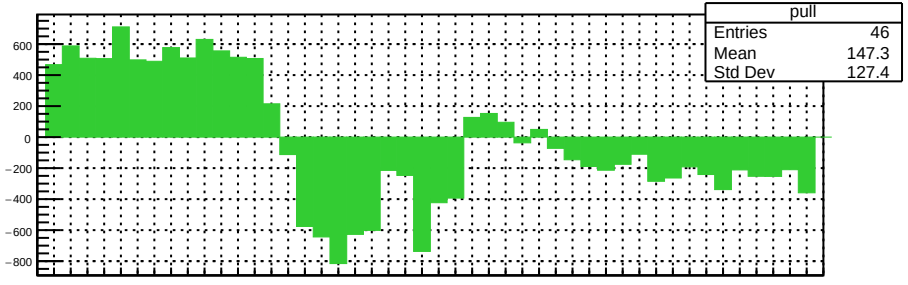

yield_bpm1Y_rms vs run
χ² / ndf 2.949e+05 / 45
p0 0.05019 ± 6.336e–05
1
0.8
0.6
0.4
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

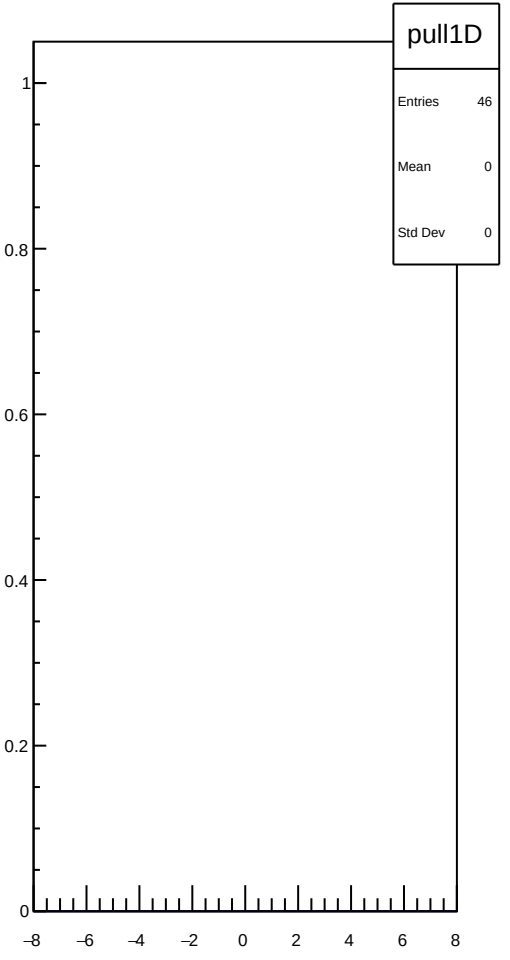

yield_bpm11X_mean vs run
χ² / ndf 1.017e+07 / 45
p0 0.7122 ± 3.118e−05
1.4
1.2
1
0.8
0.6
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 324.9
Std Dev 298.7
600
400
200
0
−200
−400
−600
−800
−1000
−1200

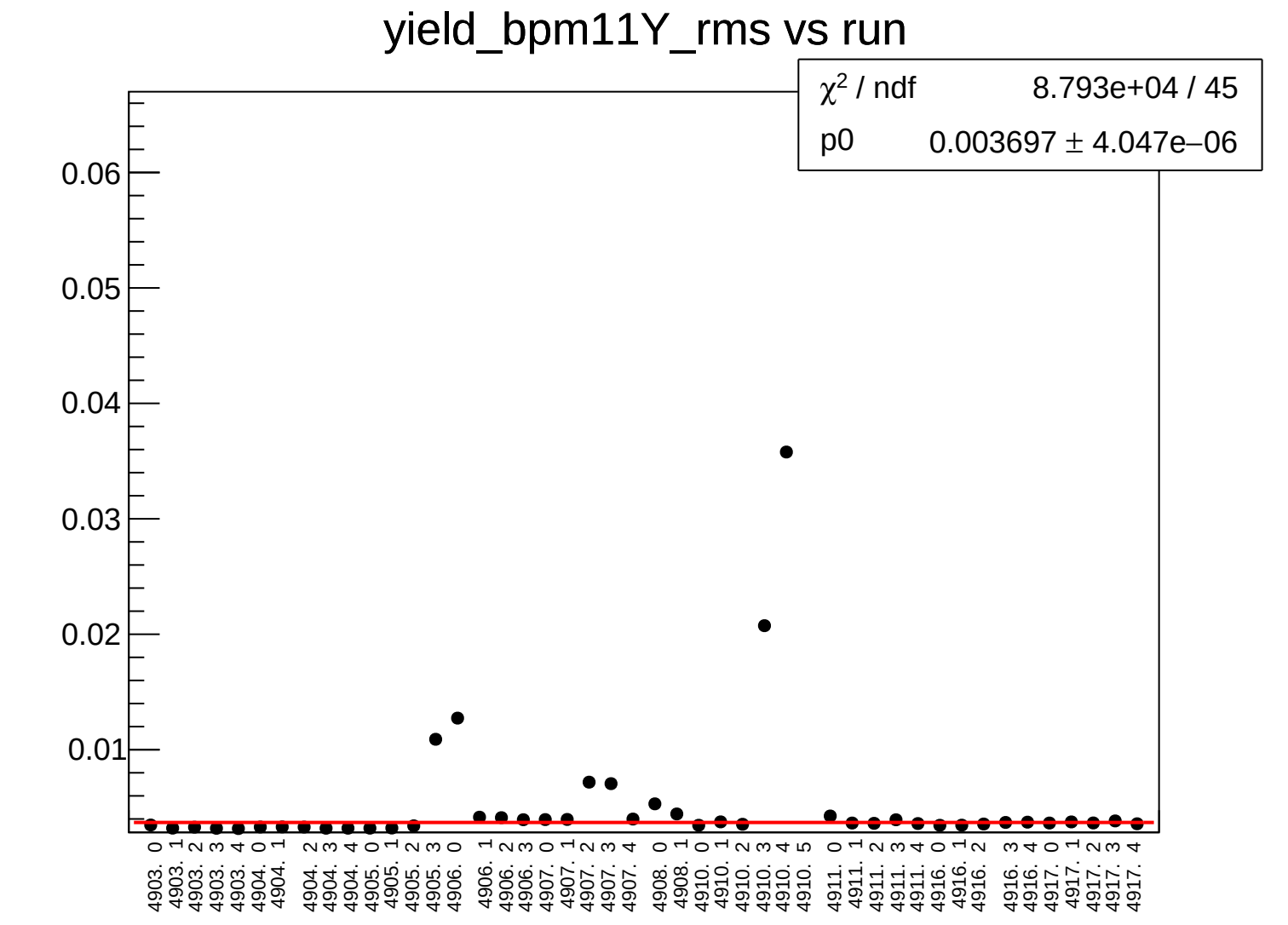

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

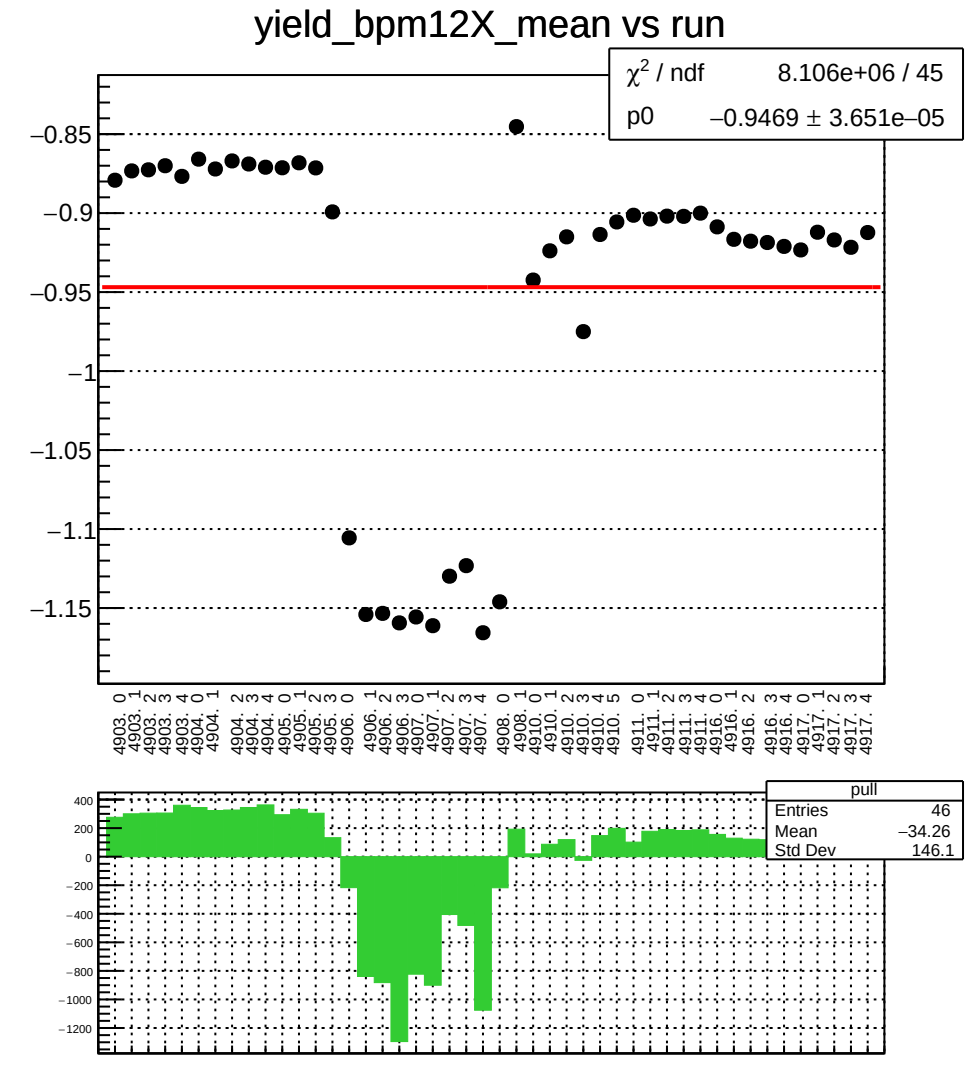

yield_bpm11X_rms vs run
χ² / ndf 6.289e+04 / 45
p0 0.02044 ± 2.204e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

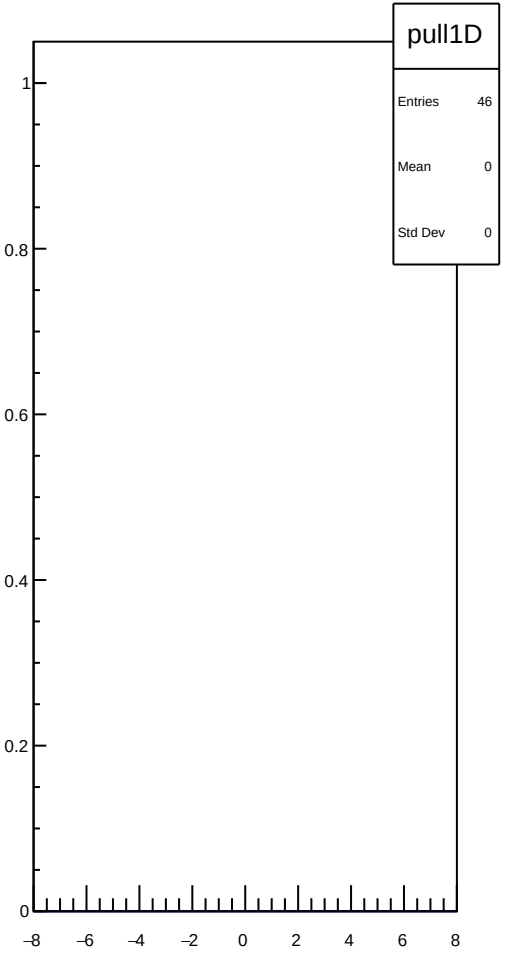

yield_bpm11Y_mean vs run
χ² / ndf 8.012e+06 / 45
p0 0.4304 ± 5.723e−06
0.45
0.44
0.43
0.42
0.41
0.4
0.39
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

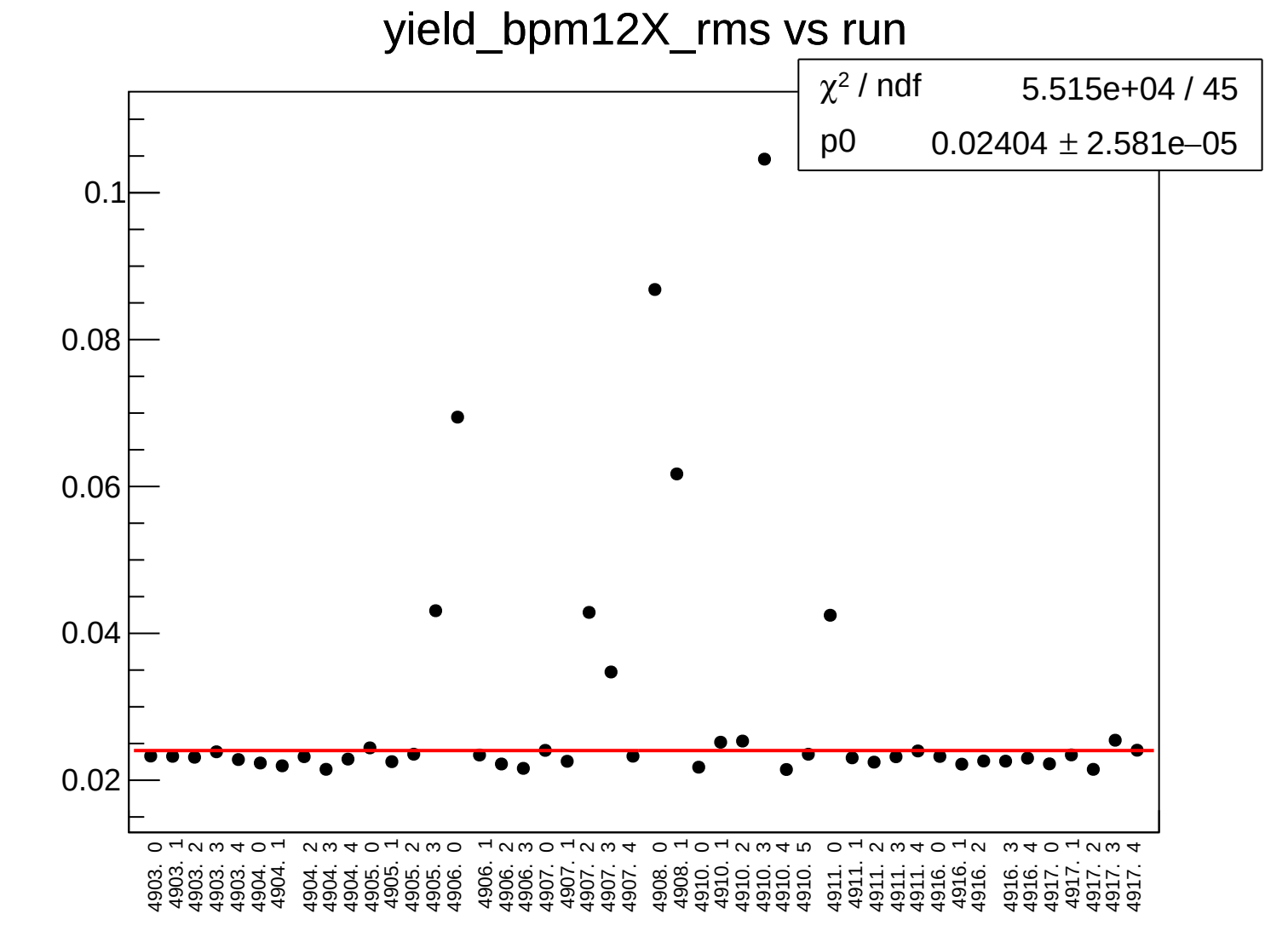

pull
Entries 46
Mean 147.3
Std Dev 127.4
600
400
200
0
−200
−400
−600
−800

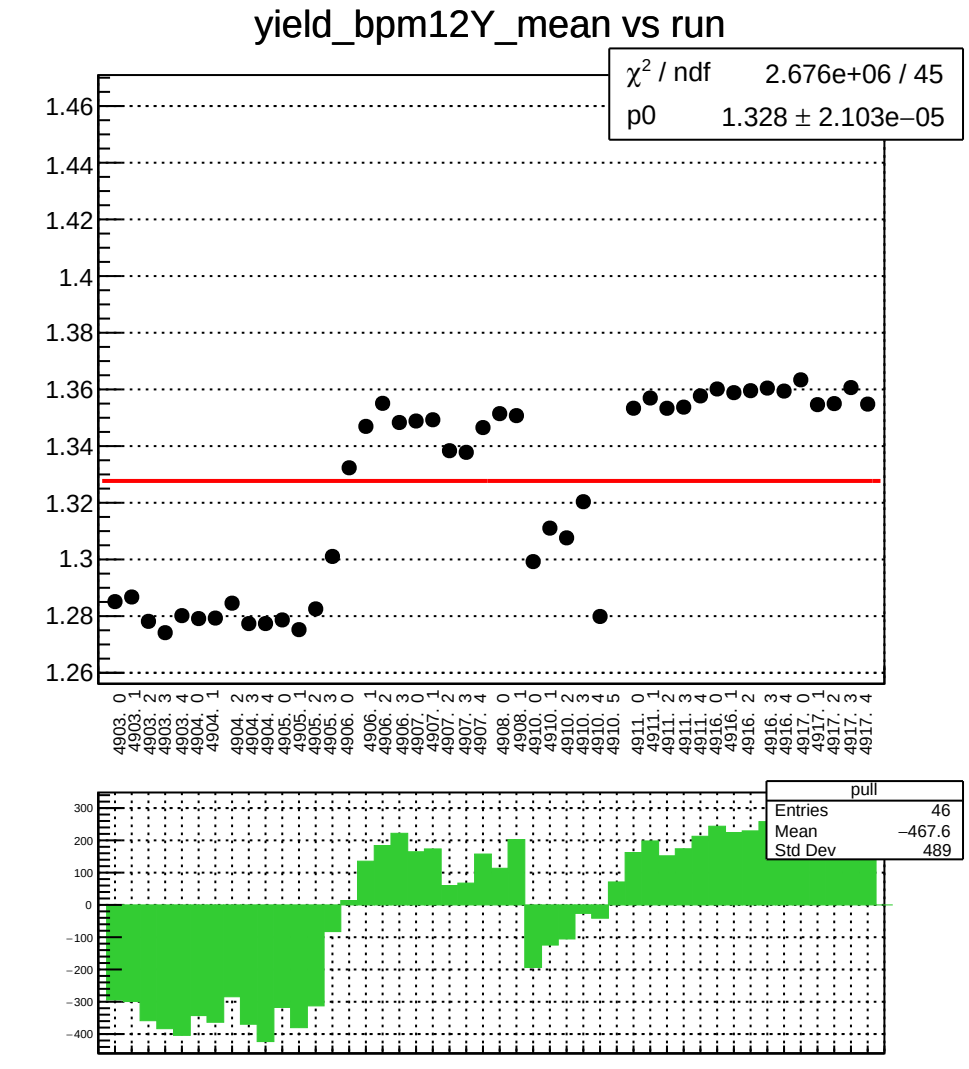

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

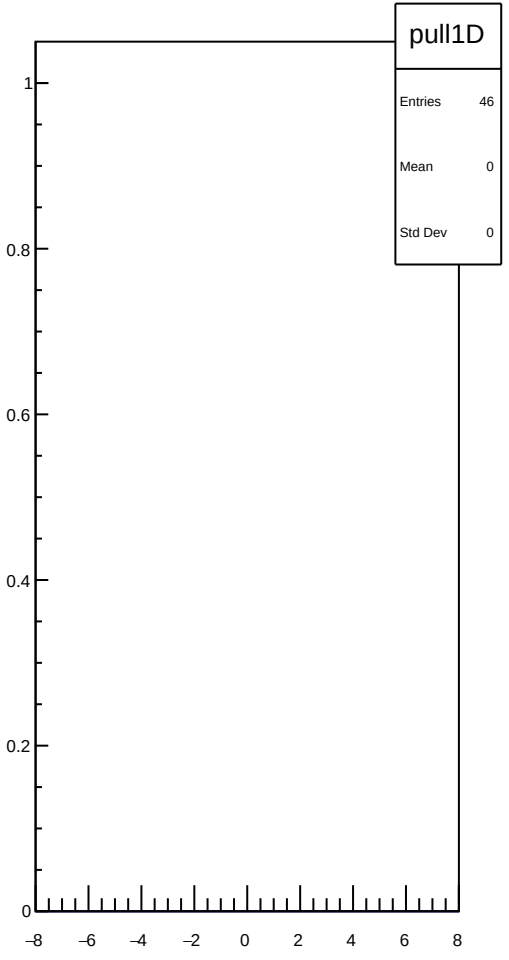

yield_bpm11Y_rms vs run
χ² / ndf 8.793e+04 / 45
p0 0.003697 ± 4.047e−06
0.06
0.05
0.04
0.03
0.02
0.01
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

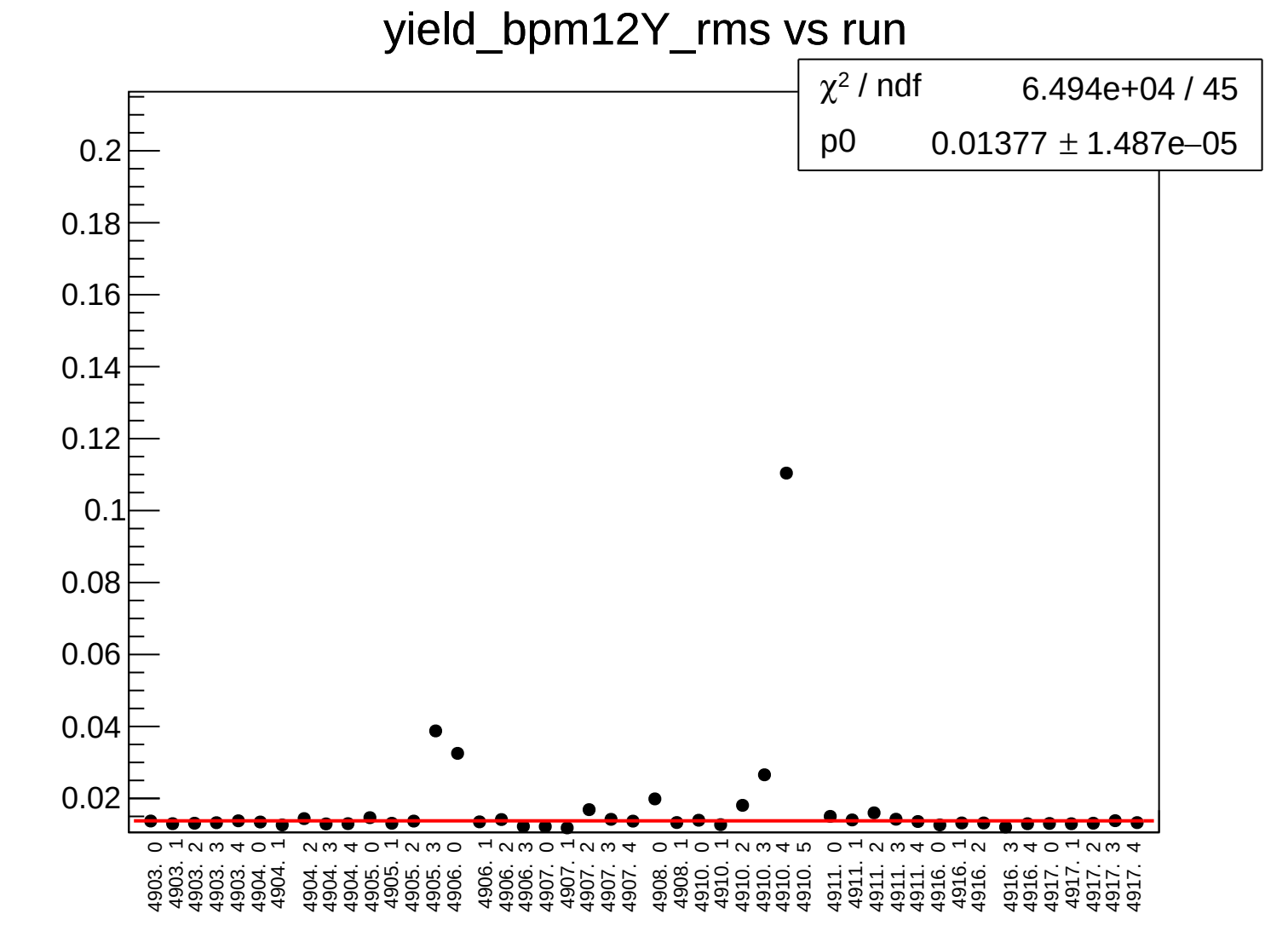

yield_bpm12X_mean vs run
χ² / ndf 8.106e+06 / 45
p0 −0.9469 ± 3.651e−05
−0.85
−0.9
−0.95
−1
−1.05
−1.1
−1.15
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −34.26
Std Dev 146.1
400
200
0
−200
−400
−600
−800
−1000
−1200

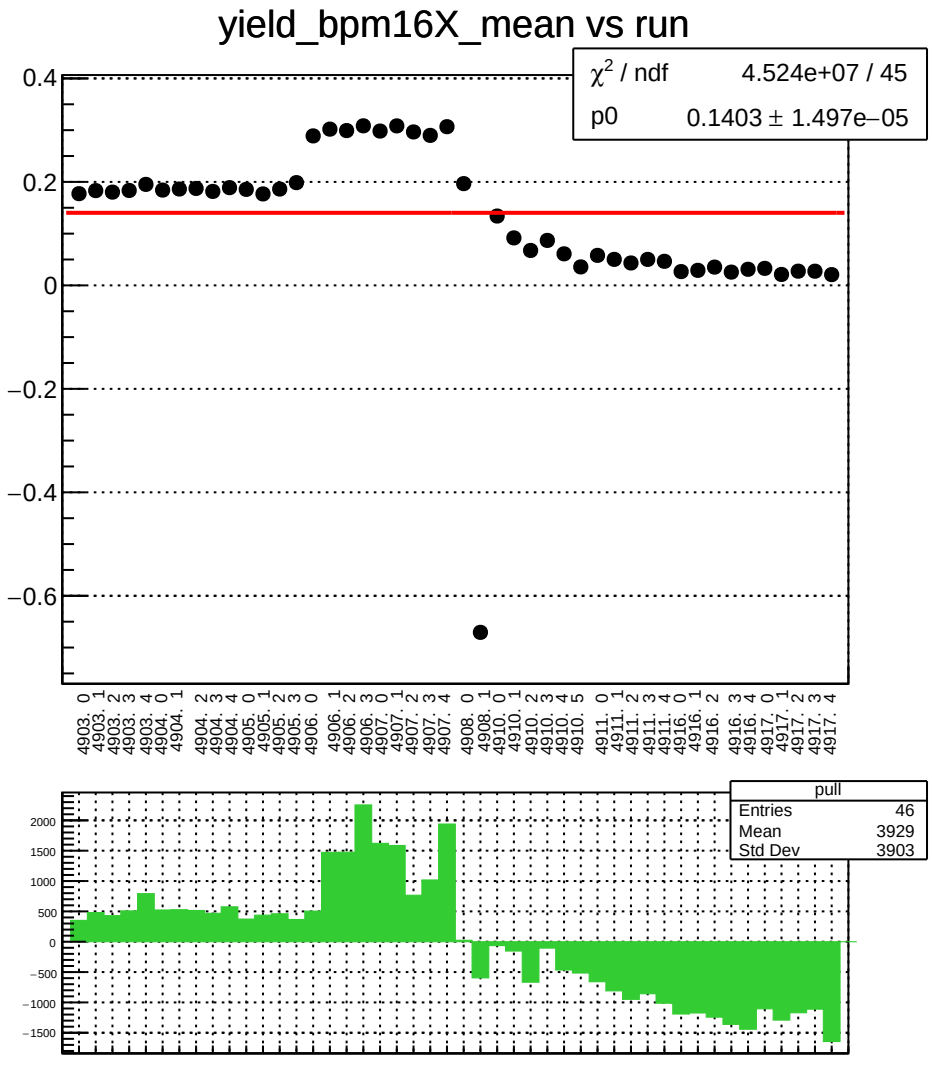

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

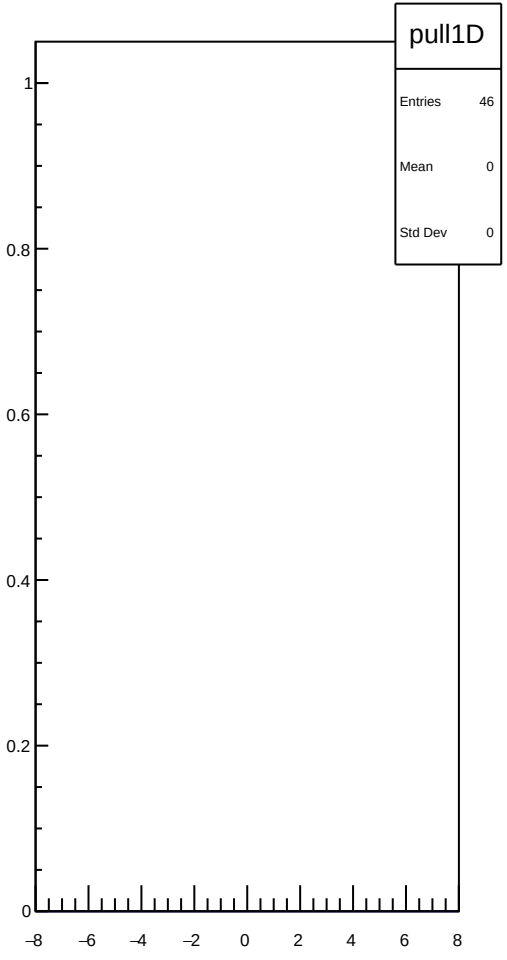

yield_bpm12X_rms vs run
χ² / ndf 5.515e+04 / 45
p0 0.02404 ± 2.581e–05
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

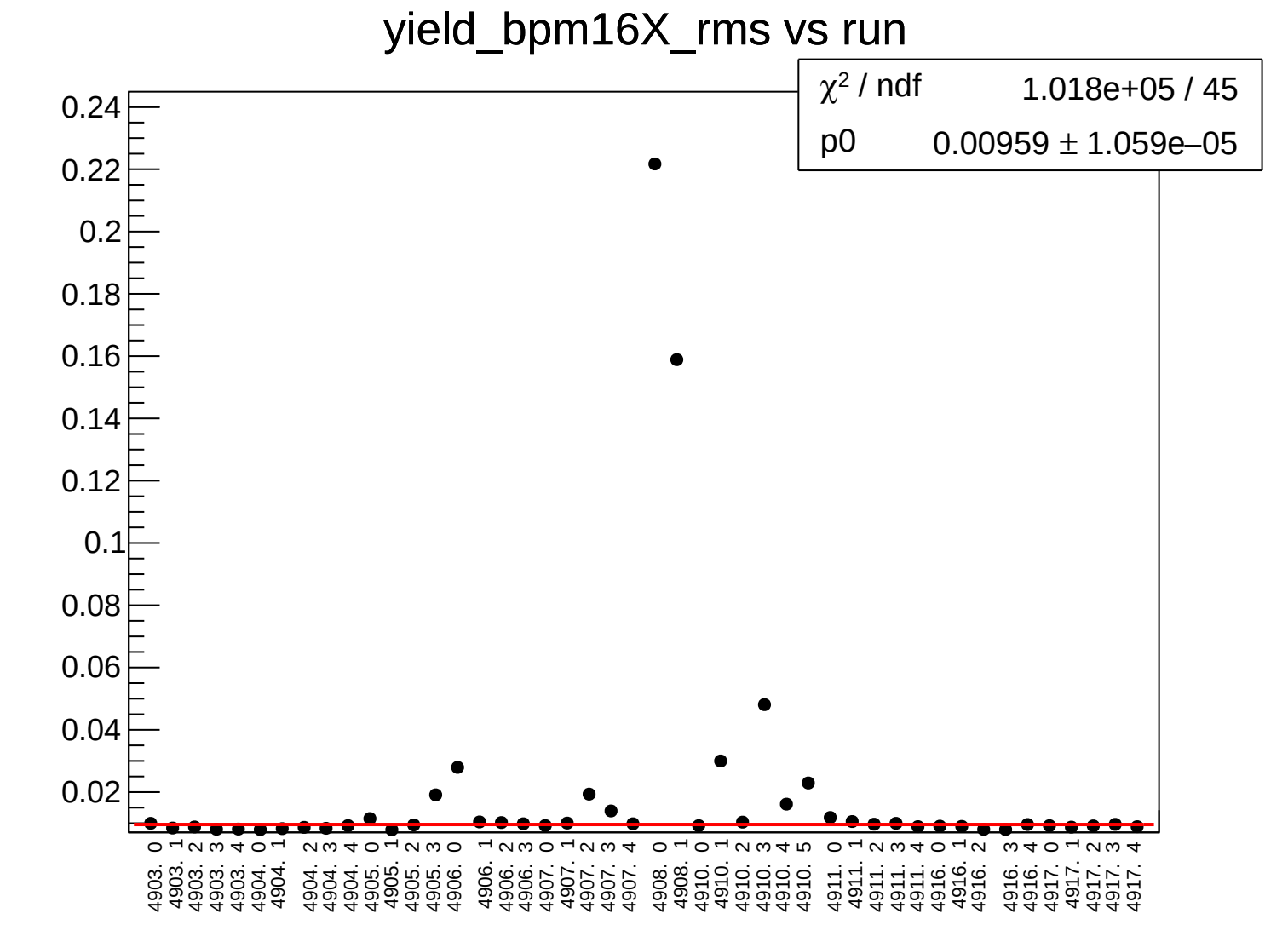

yield_bpm12Y_mean vs run
χ² / ndf 2.676e+06 / 45
p0 1.328 ± 2.103e−05
pull
Entries 46
Mean −467.6
Std Dev 489

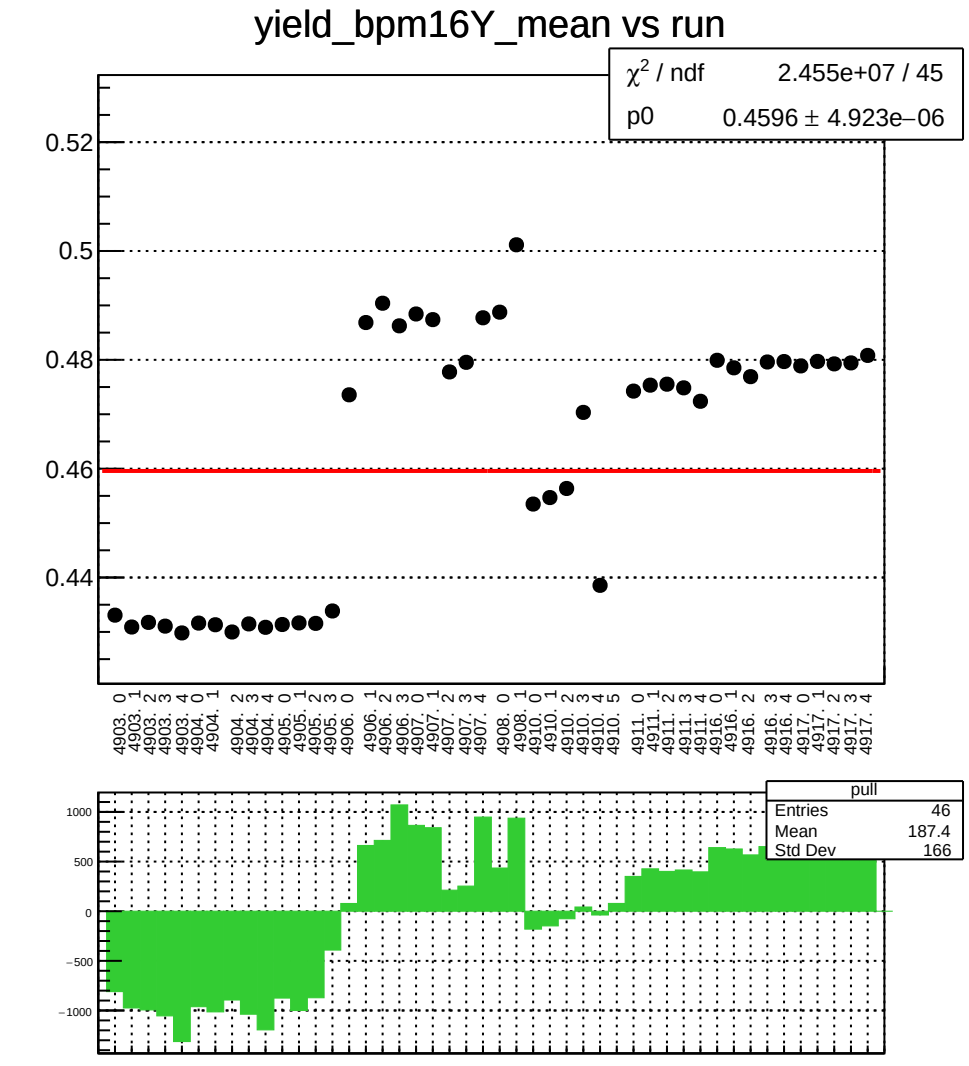

pull1D
Entries 46
Mean 0
Std Dev 0

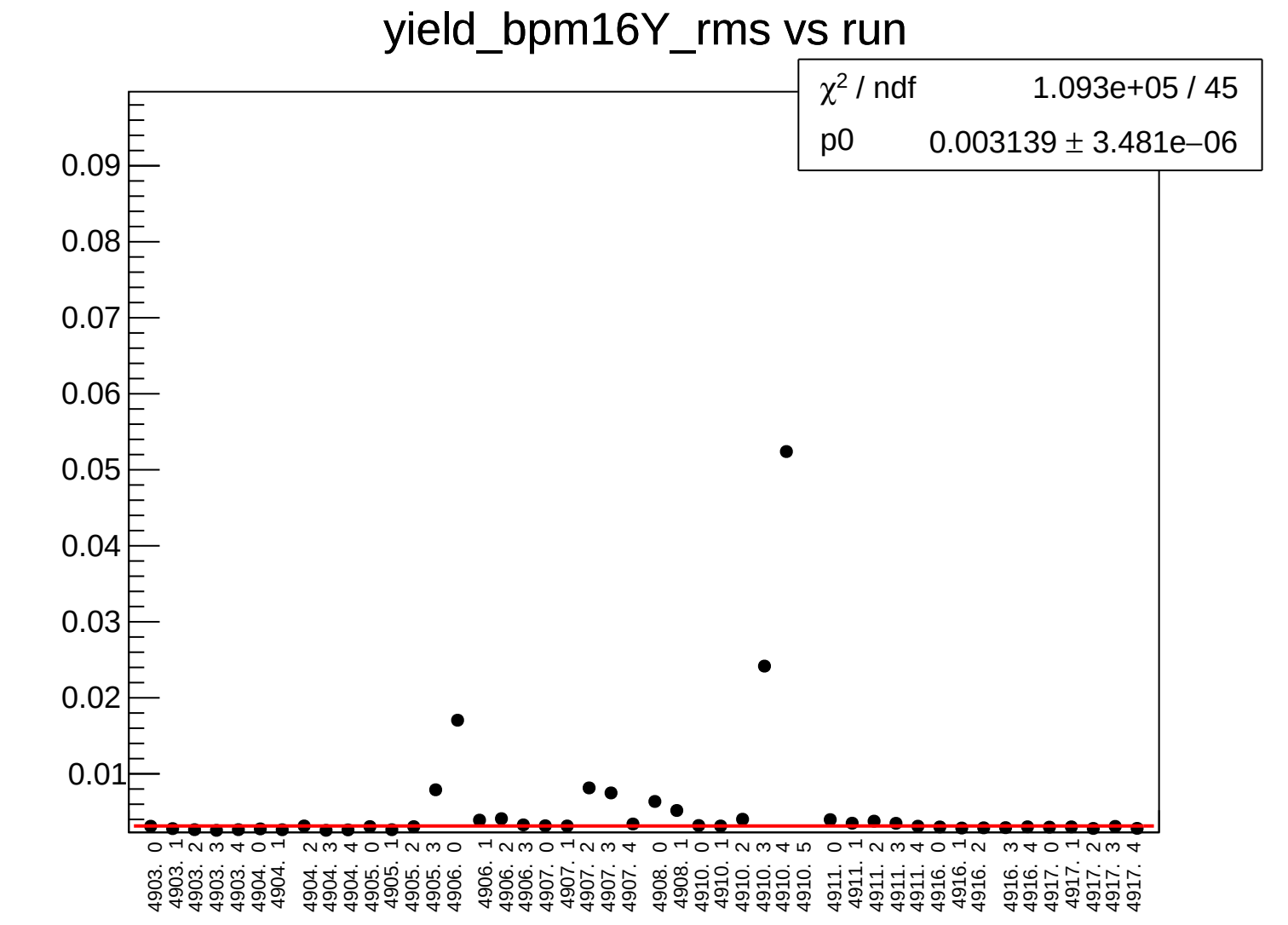

yield_bpm12Y_rms vs run
χ² / ndf 6.494e+04 / 45
p0 0.01377 ± 1.487e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

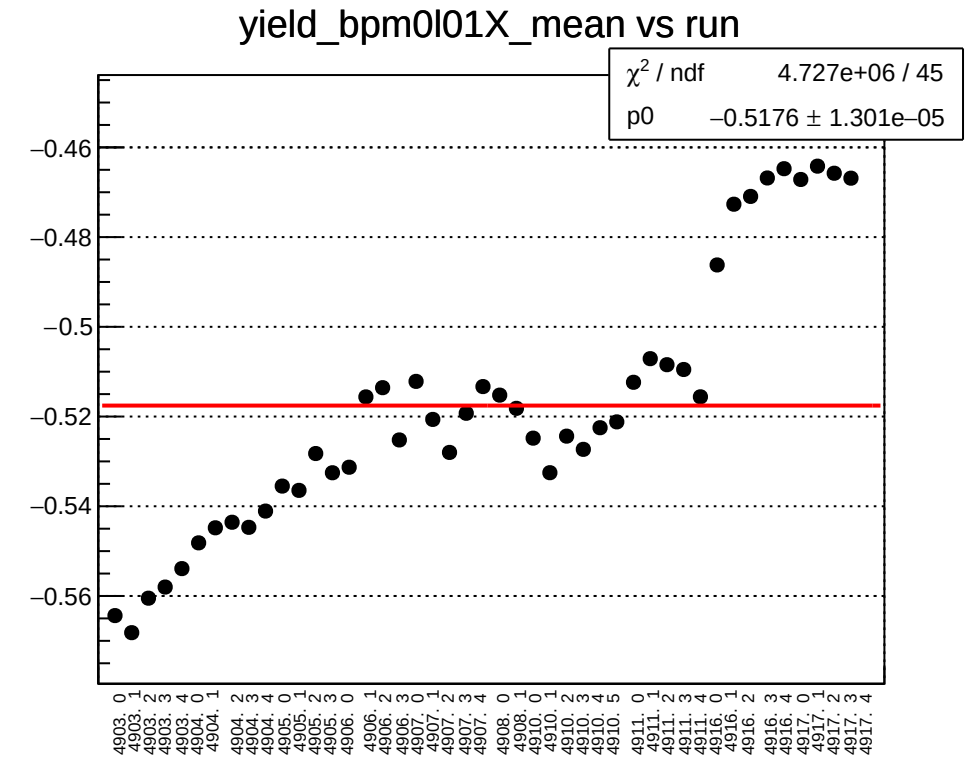

yield_bpm16X_mean vs run
χ² / ndf 4.524e+07 / 45
p0 0.1403 ± 1.497e−05
pull
Entries 46
Mean 3929
Std Dev 3903

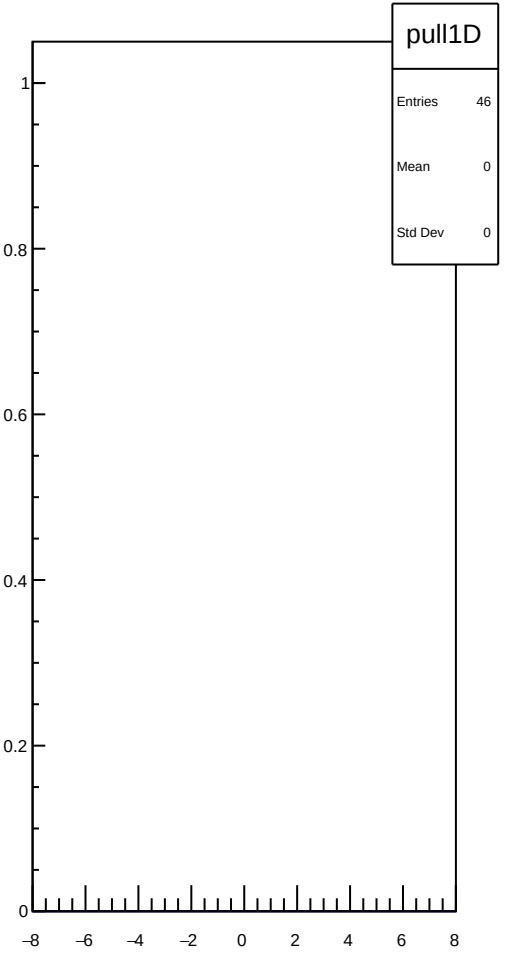

pull1D
Entries 46
Mean 0
Std Dev 0

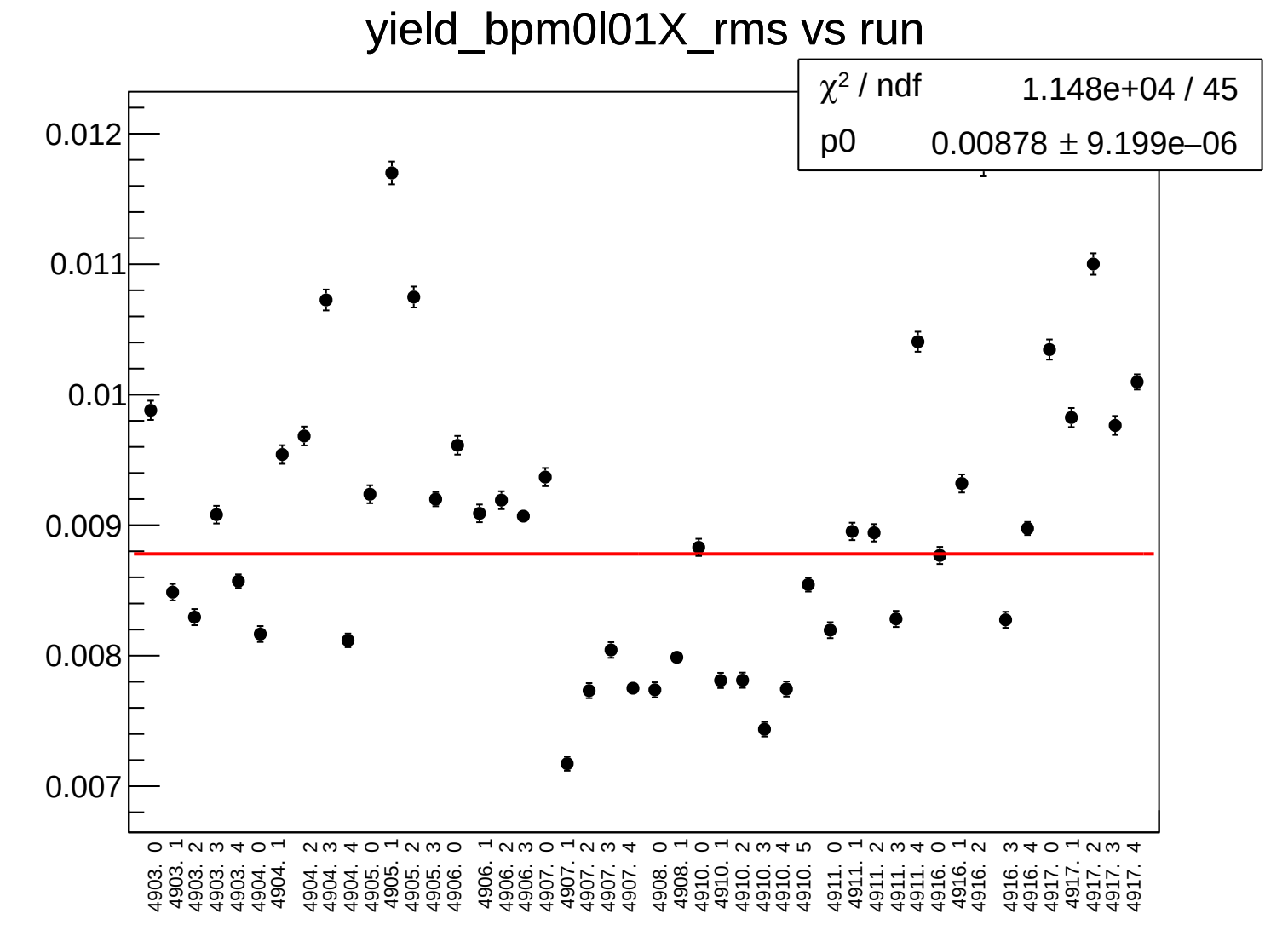

yield_bpm16X_rms vs run
χ² / ndf 1.018e+05 / 45
p0 0.00959 ± 1.059e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

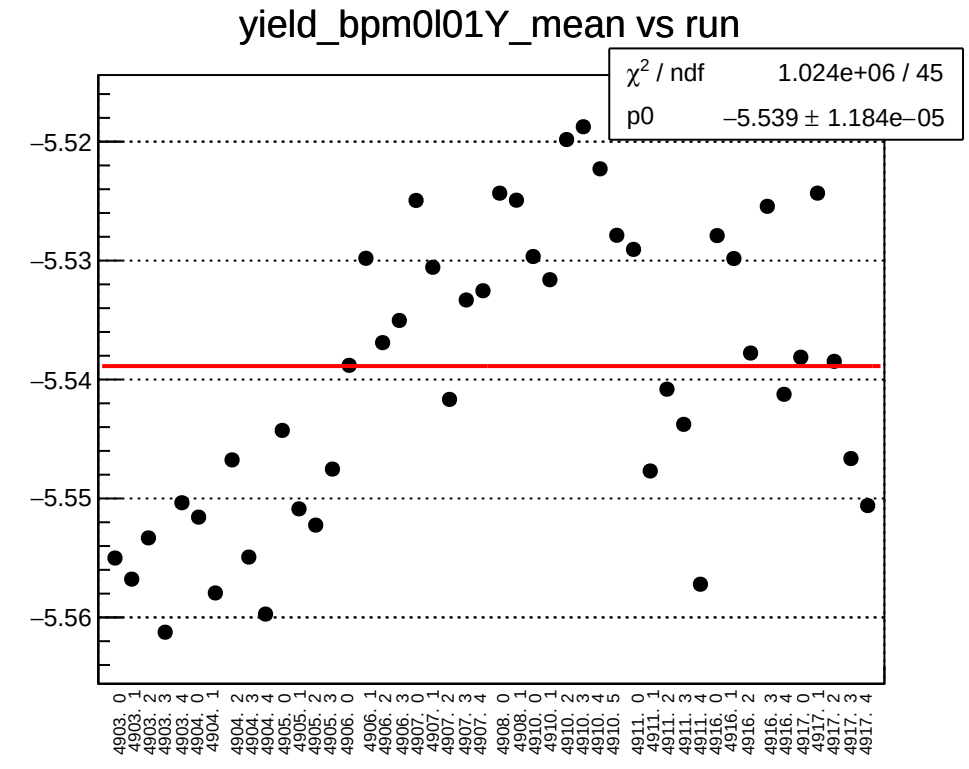

yield_bpm16Y_mean vs run
χ² / ndf 2.455e+07 / 45
p0 0.4596 ± 4.923e−06
0.52
0.5
0.48
0.46
0.44
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 187.4
Std Dev 166
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

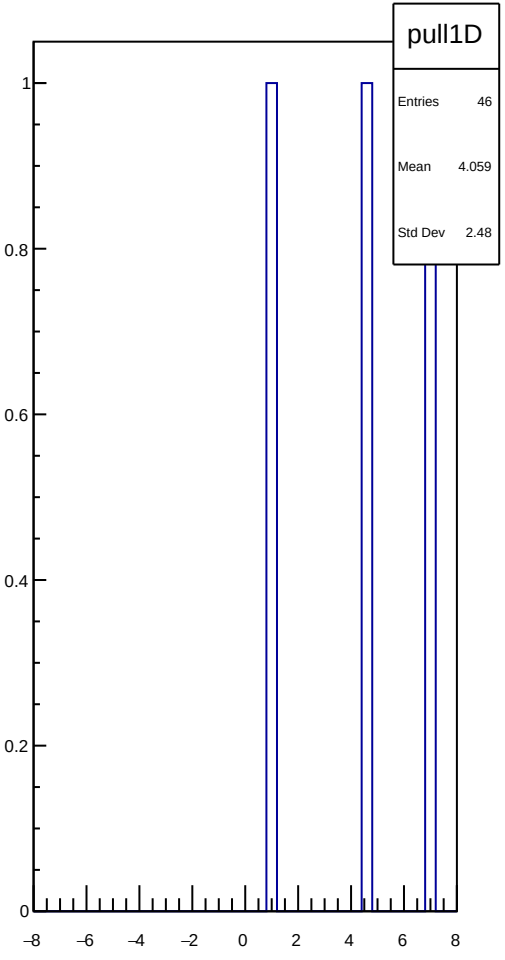

yield_bpm16Y_rms vs run
χ² / ndf 1.093e+05 / 45
p0 0.003139 ± 3.481e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

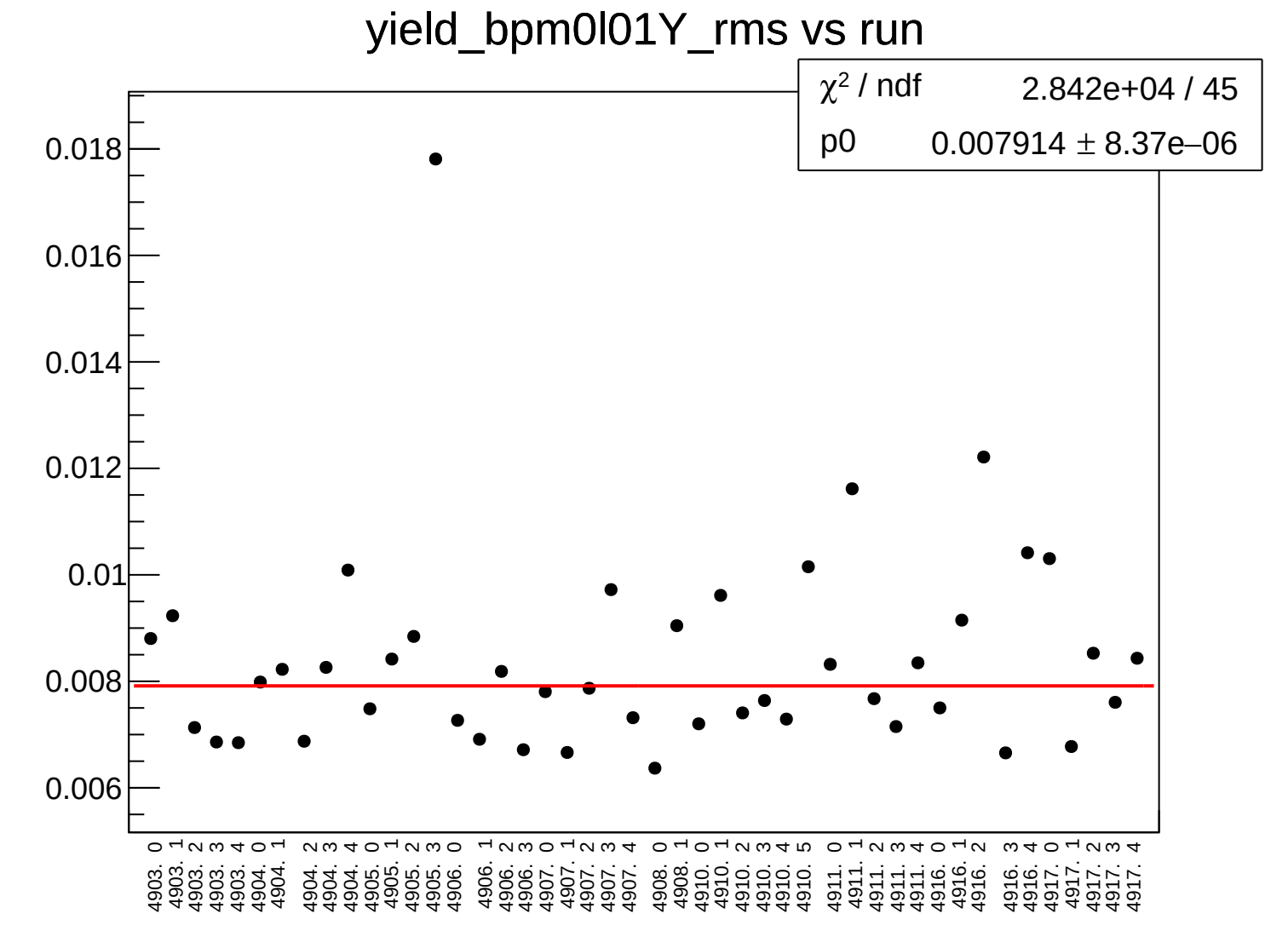

yield_bpm0l01X_mean vs run
χ² / ndf 4.727e+06 / 45
p0 −0.5176 ± 1.301e−05
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 745.8
Std Dev 721.9
800
600
400
200
0
−200
−400
−600

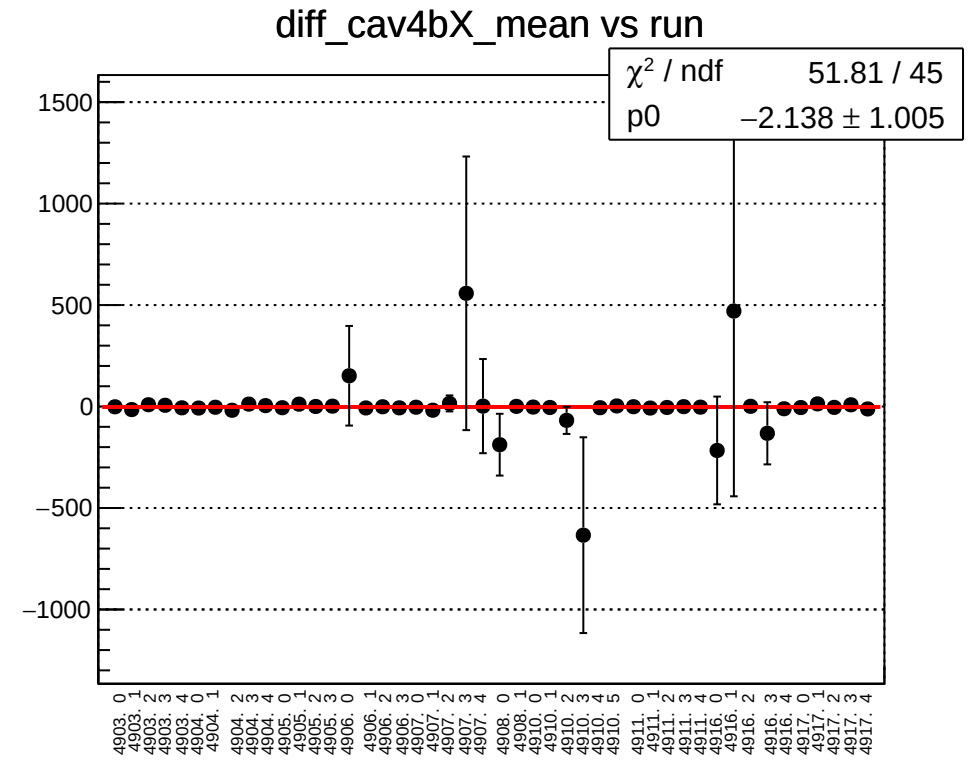

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

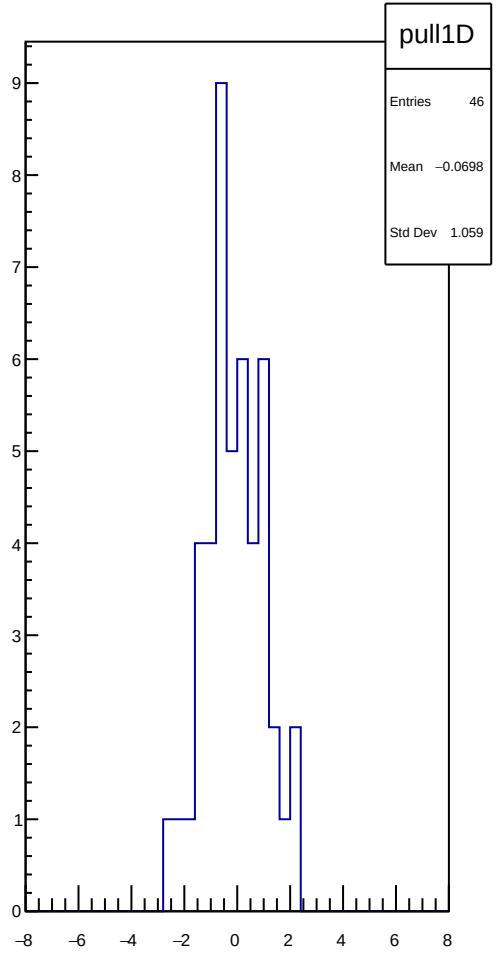

yield_bpm0l01X_rms vs run
χ² / ndf 1.148e+04 / 45
p0 0.00878 ± 9.199e–06
0.012
0.011
0.01
0.009
0.008
0.007
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

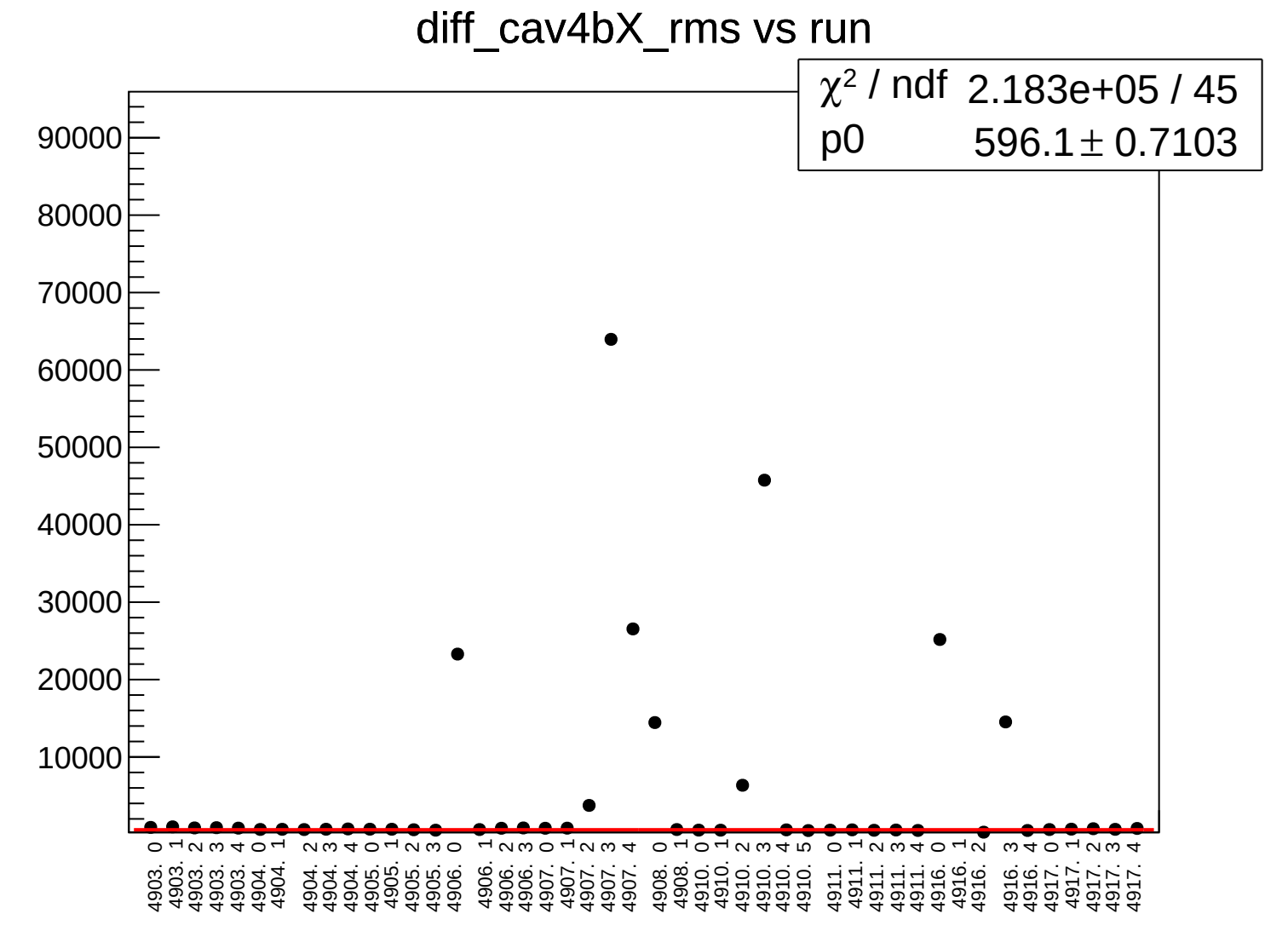

yield_bpm0l01Y_mean vs run
χ² / ndf 1.024e+06 / 45
p0 −5.539 ± 1.184e−05
−5.52
−5.53
−5.54
−5.55
−5.56
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −186.4
Std Dev 201.8
200
100
0
−100
−200
−300

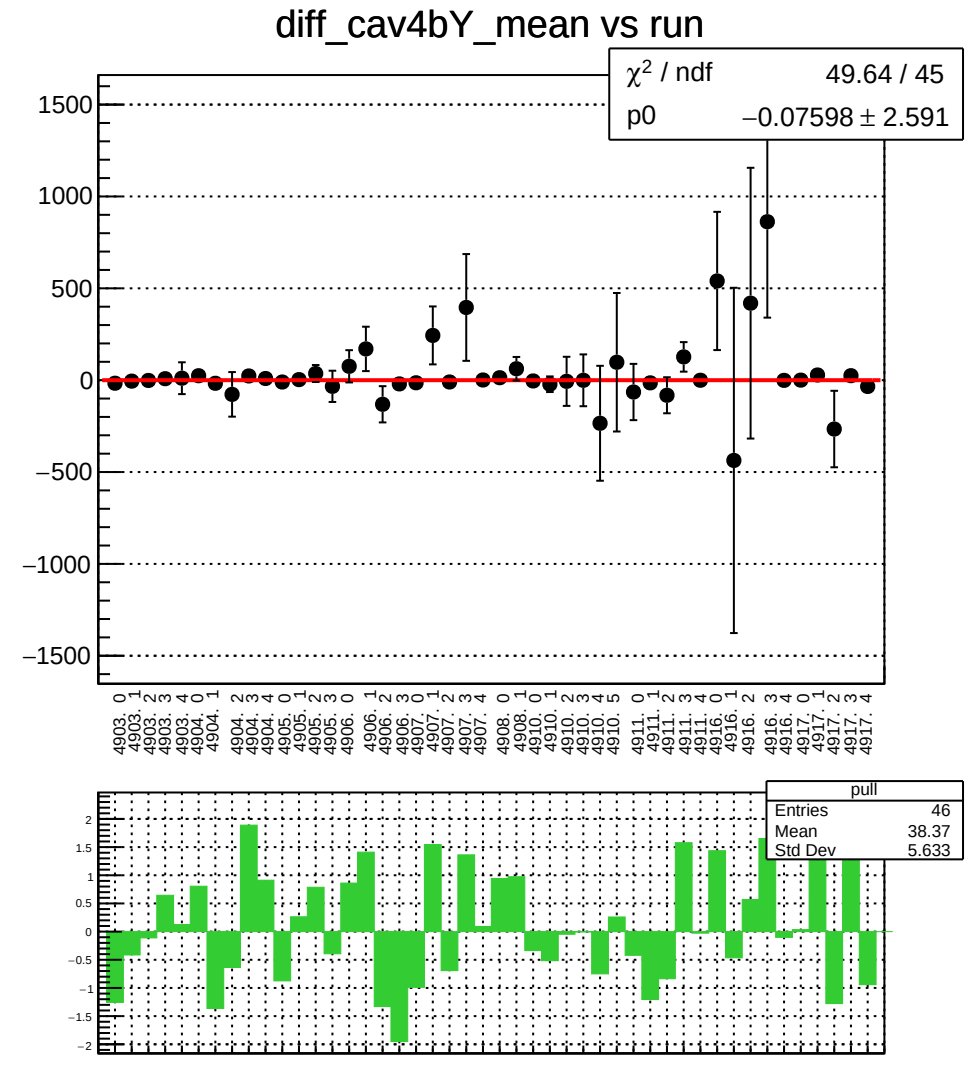

pull1D
Entries 46
Mean 4.059
Std Dev 2.48
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

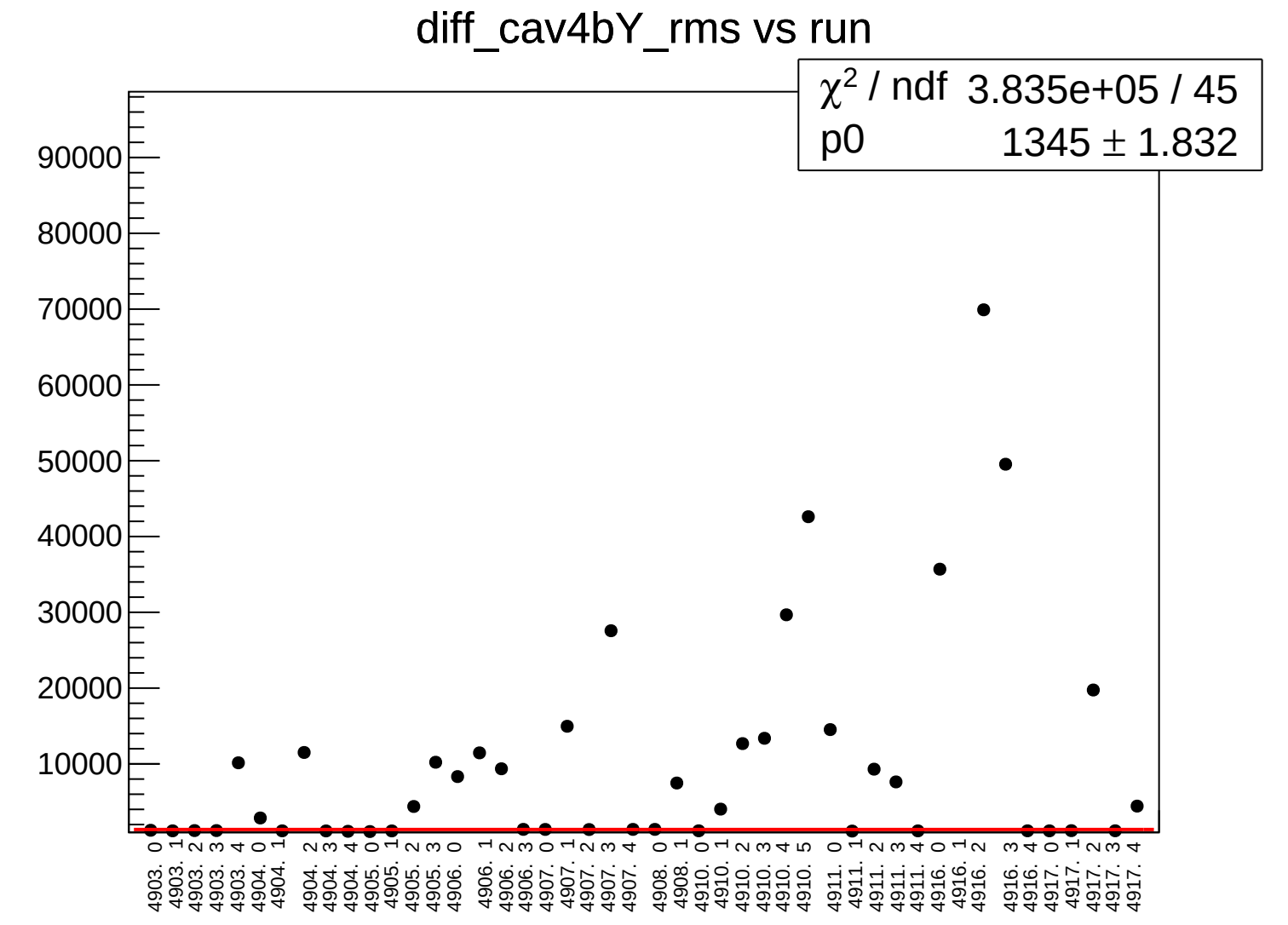

yield_bpm0l01Y_rms vs run
χ² / ndf 2.842e+04 / 45
p0 0.007914 ± 8.37e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

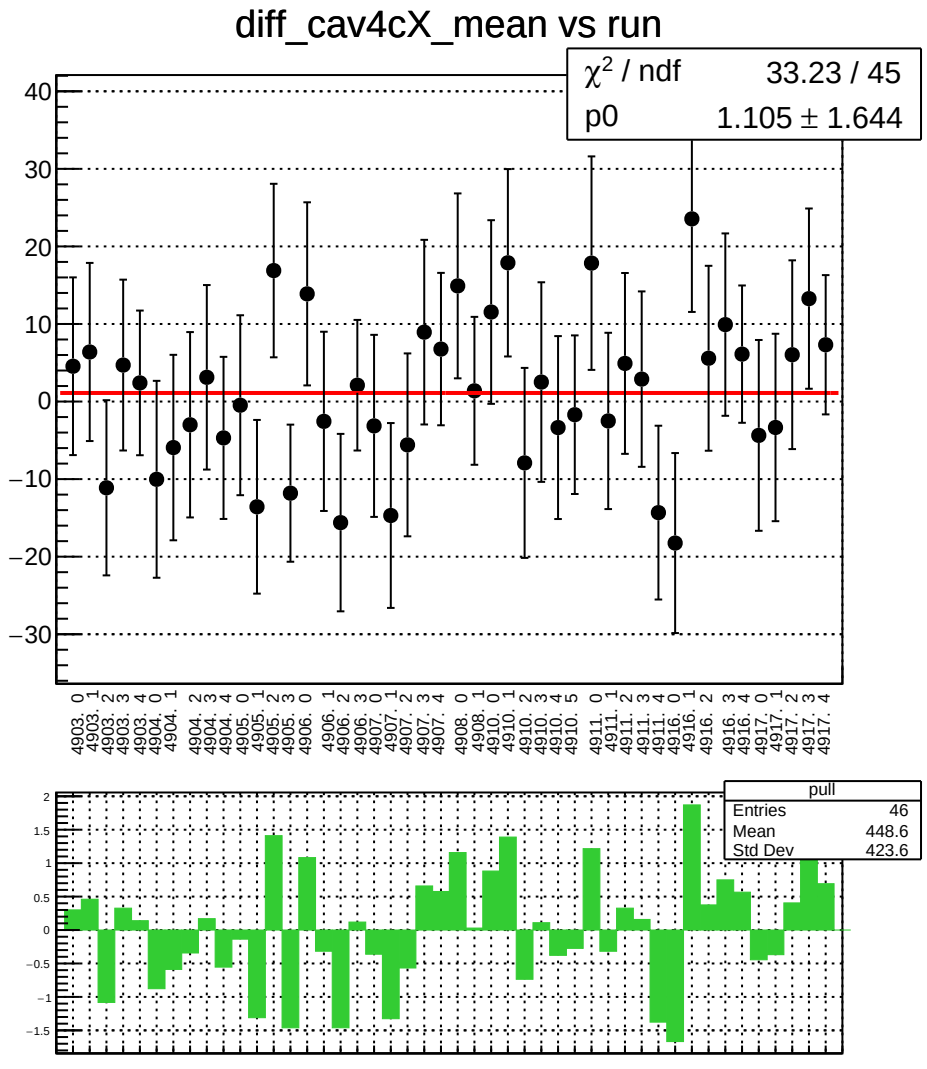

diff_cav4bX_mean vs run
χ² / ndf 51.81 / 45
p0 −2.138 ± 1.005
1500
1000
500
0
−500
−1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 37.41
Std Dev 12.59
2
1
0
−1
−2

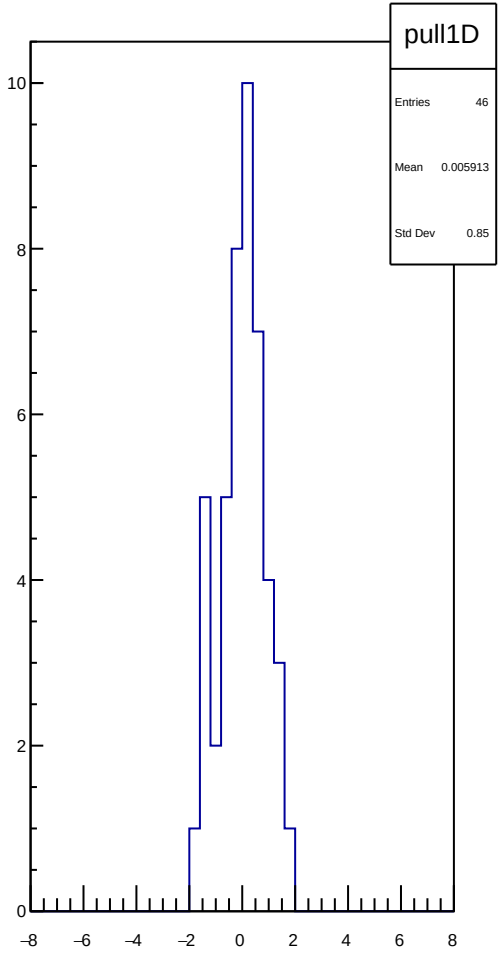

pull1D
Entries 46
Mean −0.0698
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

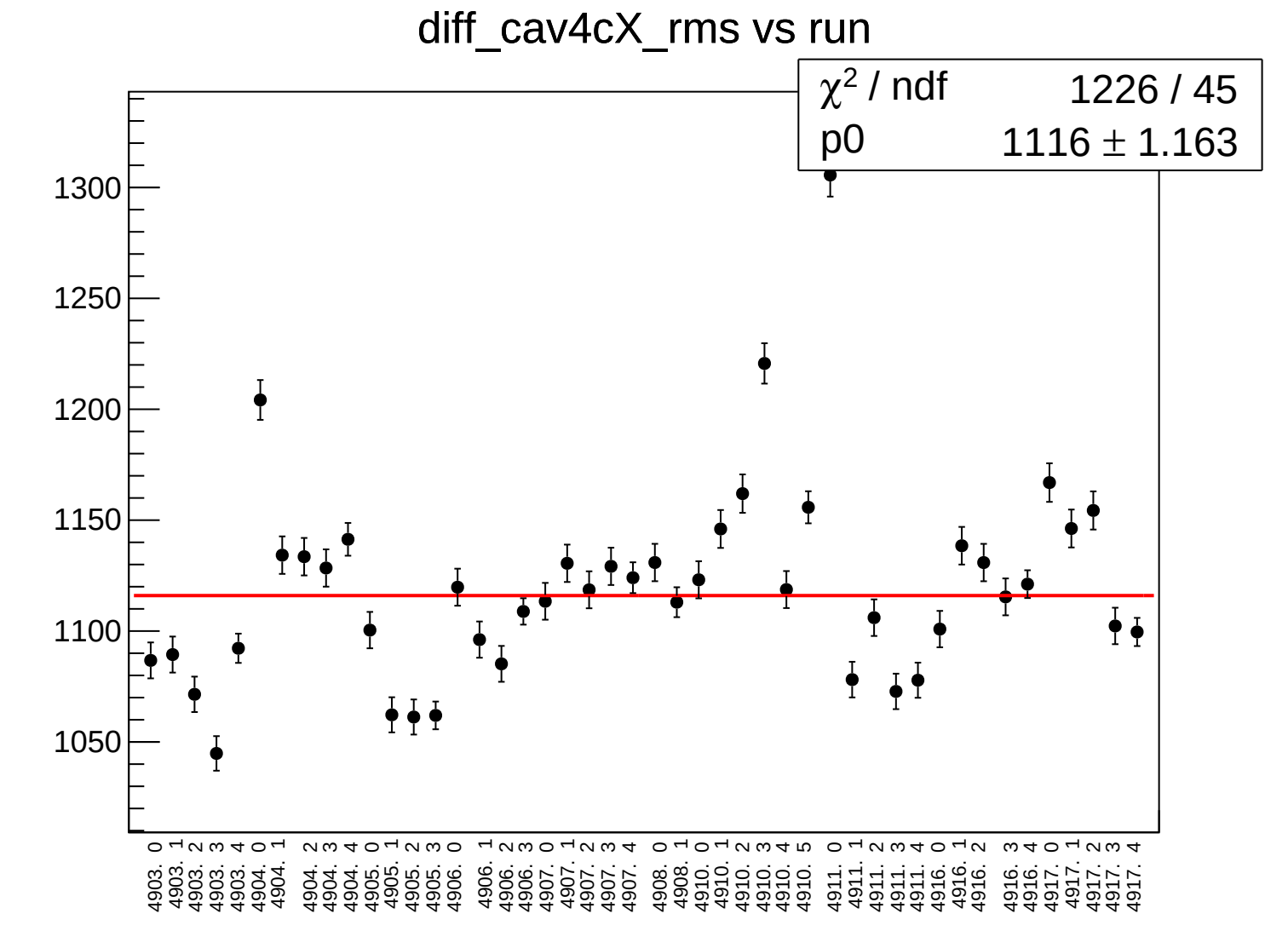

diff_cav4bX_rms vs run
χ² / ndf 2.183e+05 / 45
p0 596.1 ± 0.7103
90000
80000
70000
60000
50000
40000
30000
20000
10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

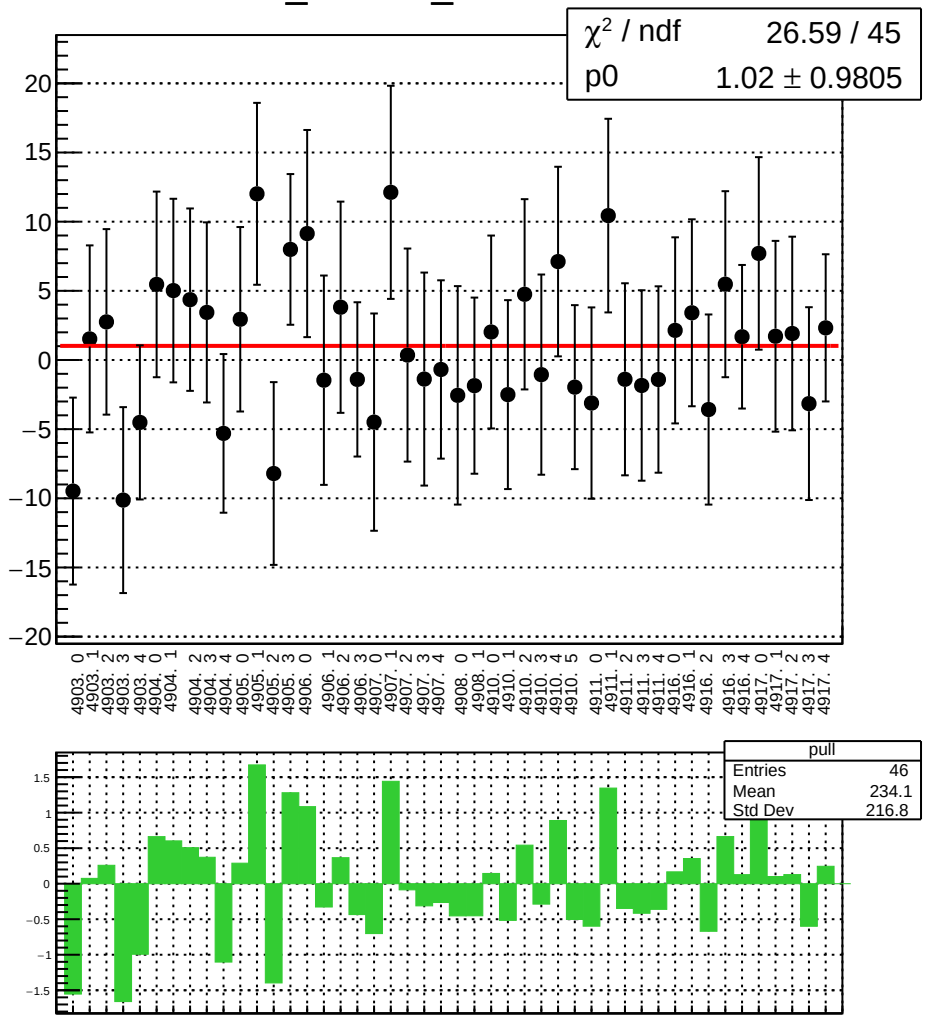

diff_cav4bY_mean vs run
χ² / ndf 49.64 / 45
p0 −0.07598 ± 2.591
1500
1000
500
0
−500
−1000
−1500
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 38.37
Std Dev 5.633
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1181
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

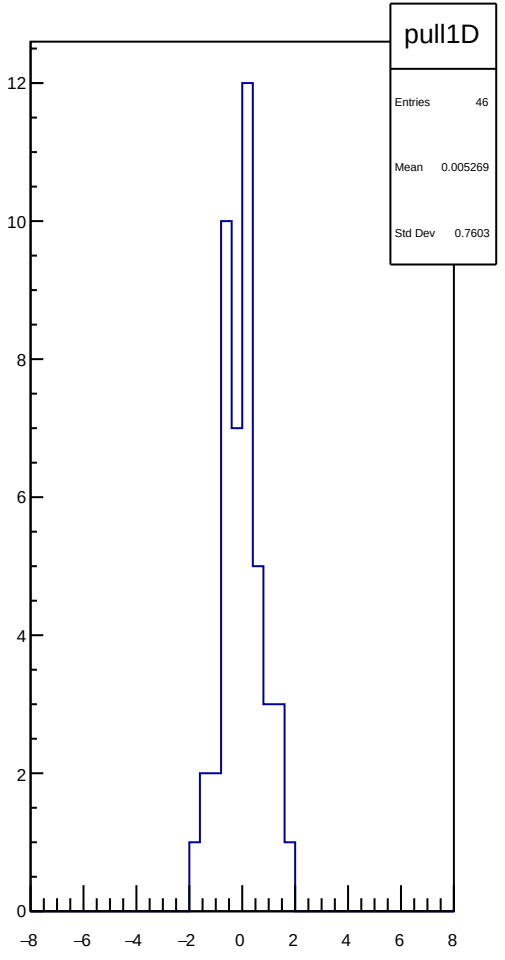

diff_cav4bY_rms vs run
χ^2 / ndf 3.835e+05 / 45
p0 1345 ± 1.832
90000
80000
70000
60000
50000
40000
30000
20000
10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

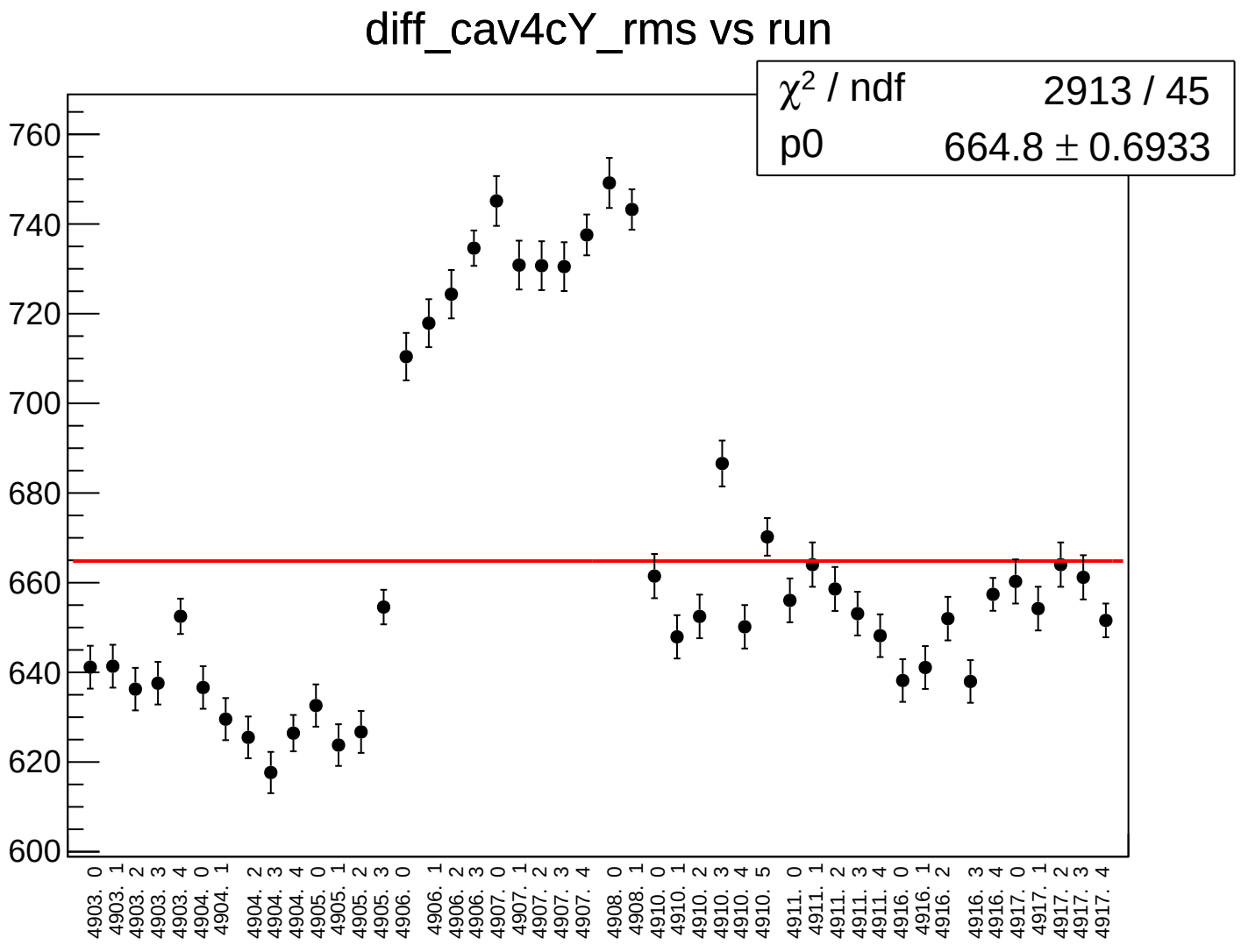

diff_cav4cX_mean vs run
χ^2 / ndf 33.23 / 45
p0 1.105 ± 1.644
pull
Entries 46
Mean 448.6
Std Dev 423.6

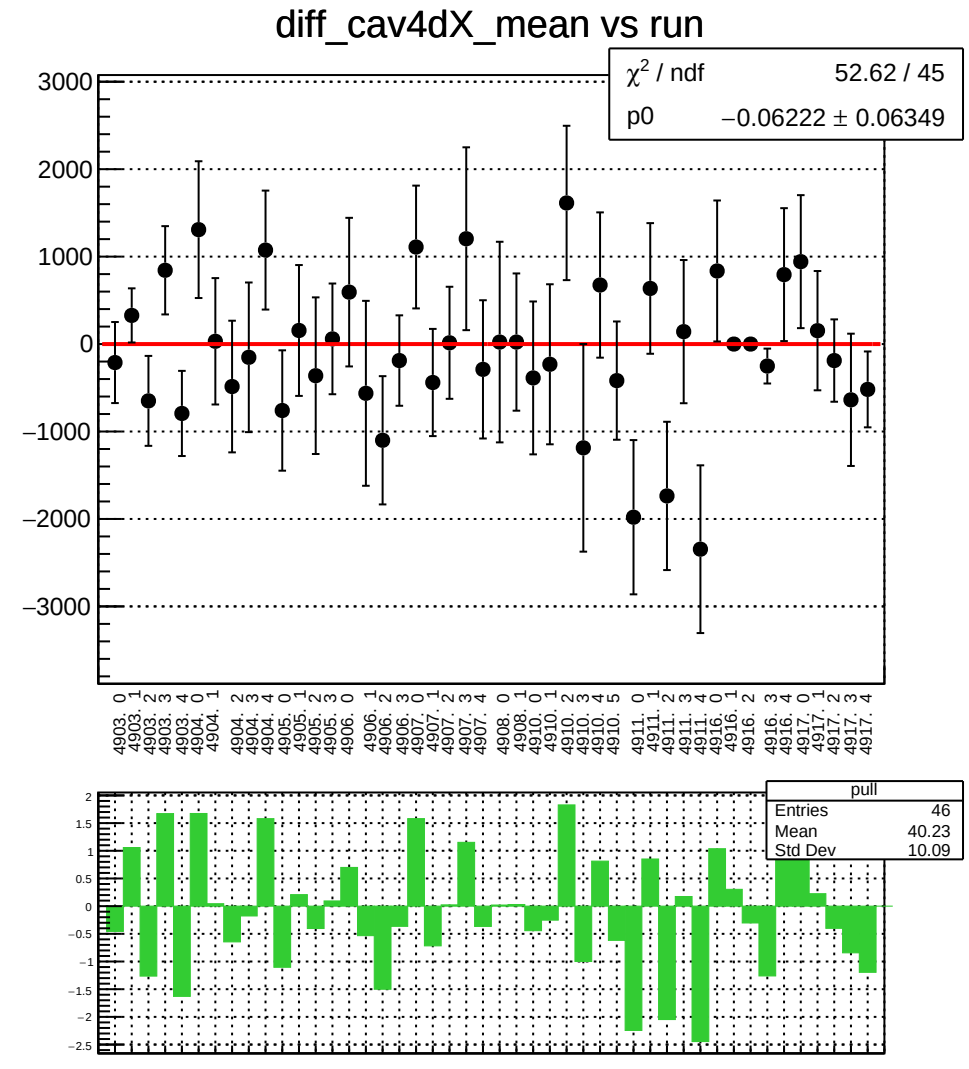

pull1D
Entries 46
Mean 0.005913
Std Dev 0.85

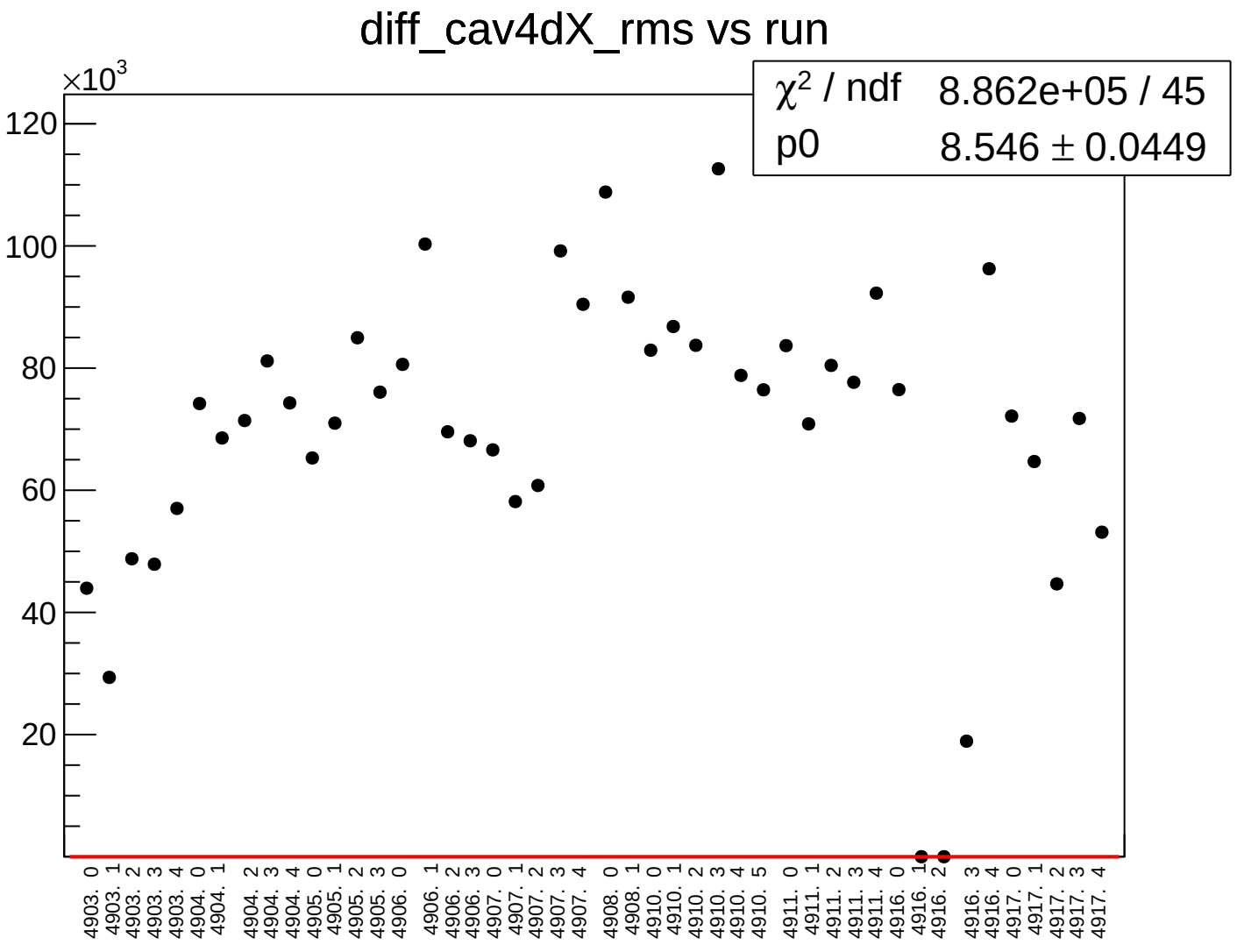

diff_cav4cX_rms vs run
χ² / ndf 1226 / 45
p0 1116 ± 1.163
1300
1250
1200
1150
1100
1050
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

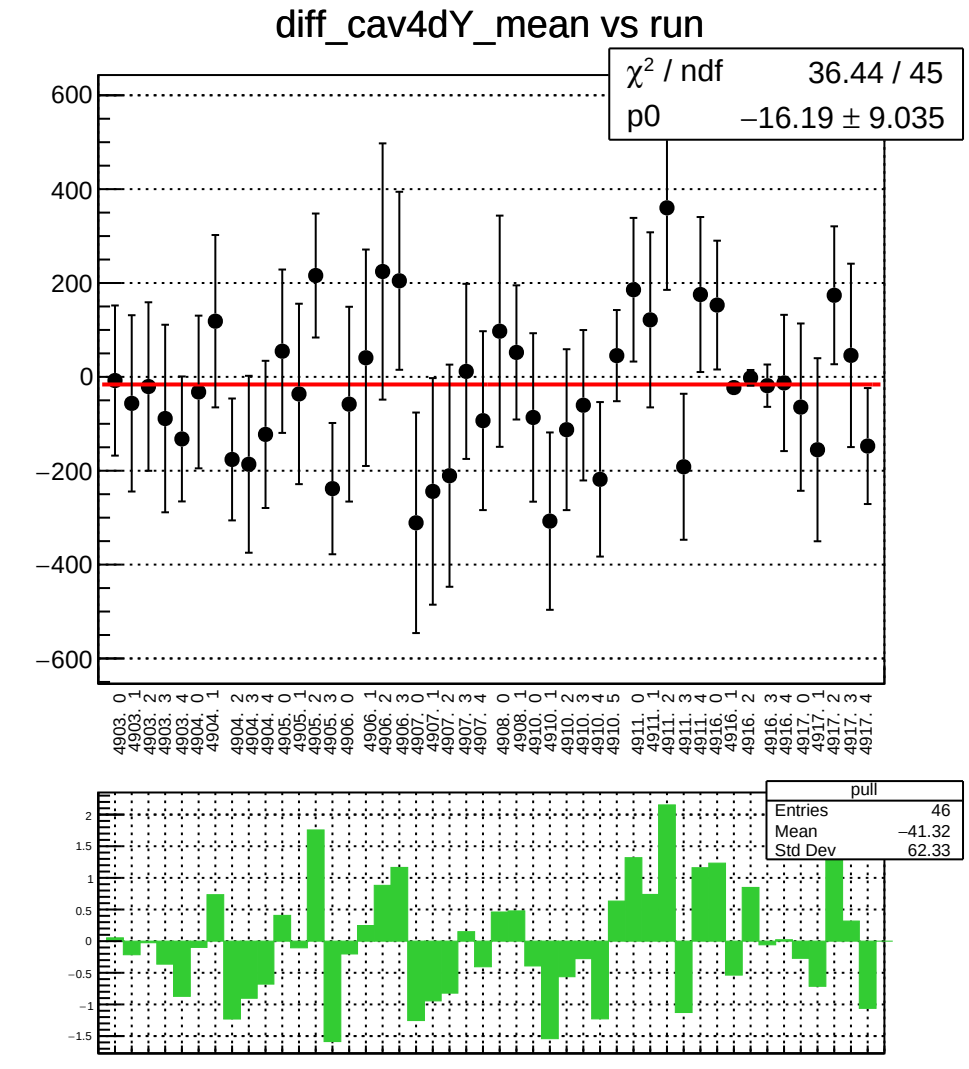

diff_cav4cY_mean vs run
χ² / ndf 26.59 / 45
p0 1.02 ± 0.9805
pull
Entries 46
Mean 234.1
Std Dev 216.8

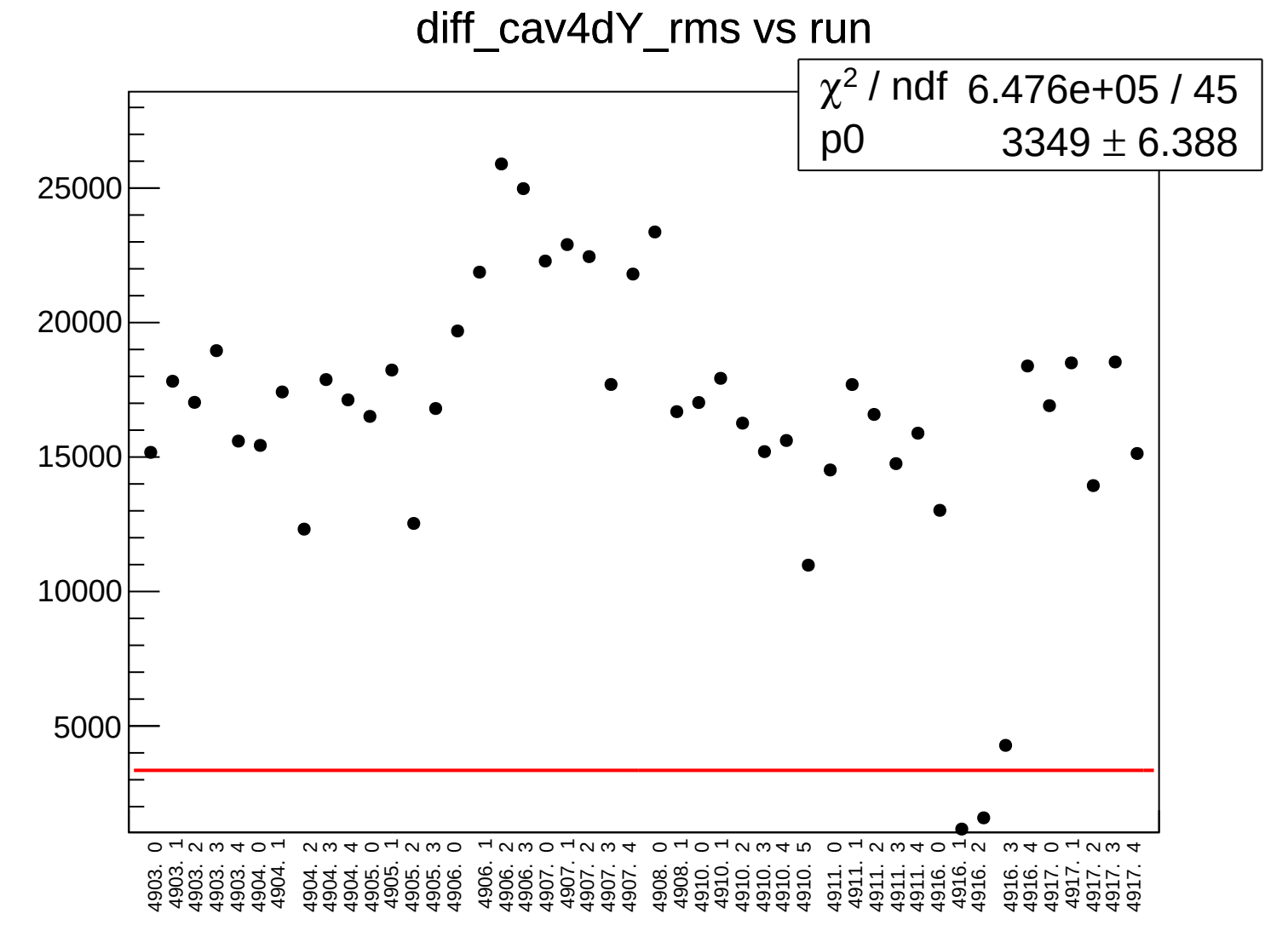

pull1D
Entries 46
Mean 0.005269
Std Dev 0.7603

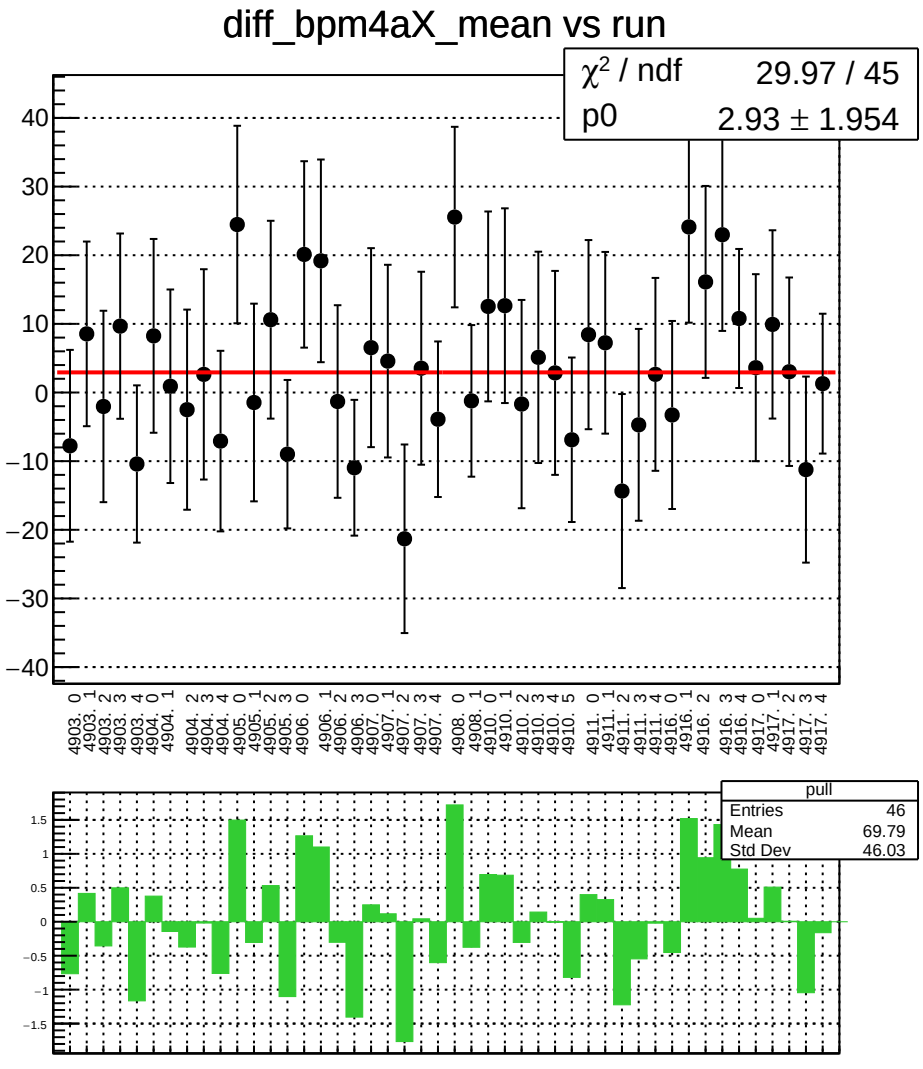

diff_cav4cY_rms vs run
χ² / ndf 2913 / 45
p0 664.8 ± 0.6933
760
740
720
700
680
660
640
620
600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

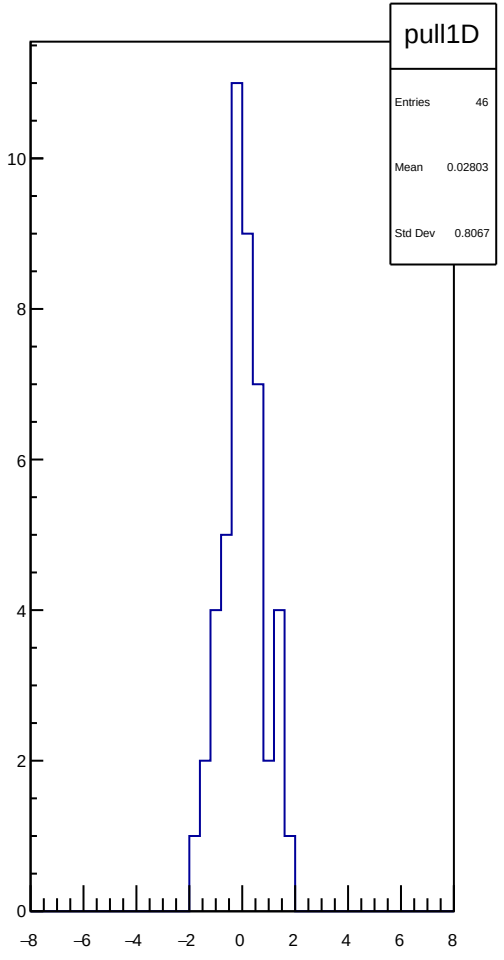

diff_cav4dX_mean vs run
χ² / ndf 52.62 / 45
p0 −0.06222 ± 0.06349
3000
2000
1000
0
−1000
−2000
−3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 40.23
Std Dev 10.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.1057
Std Dev 1.064
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

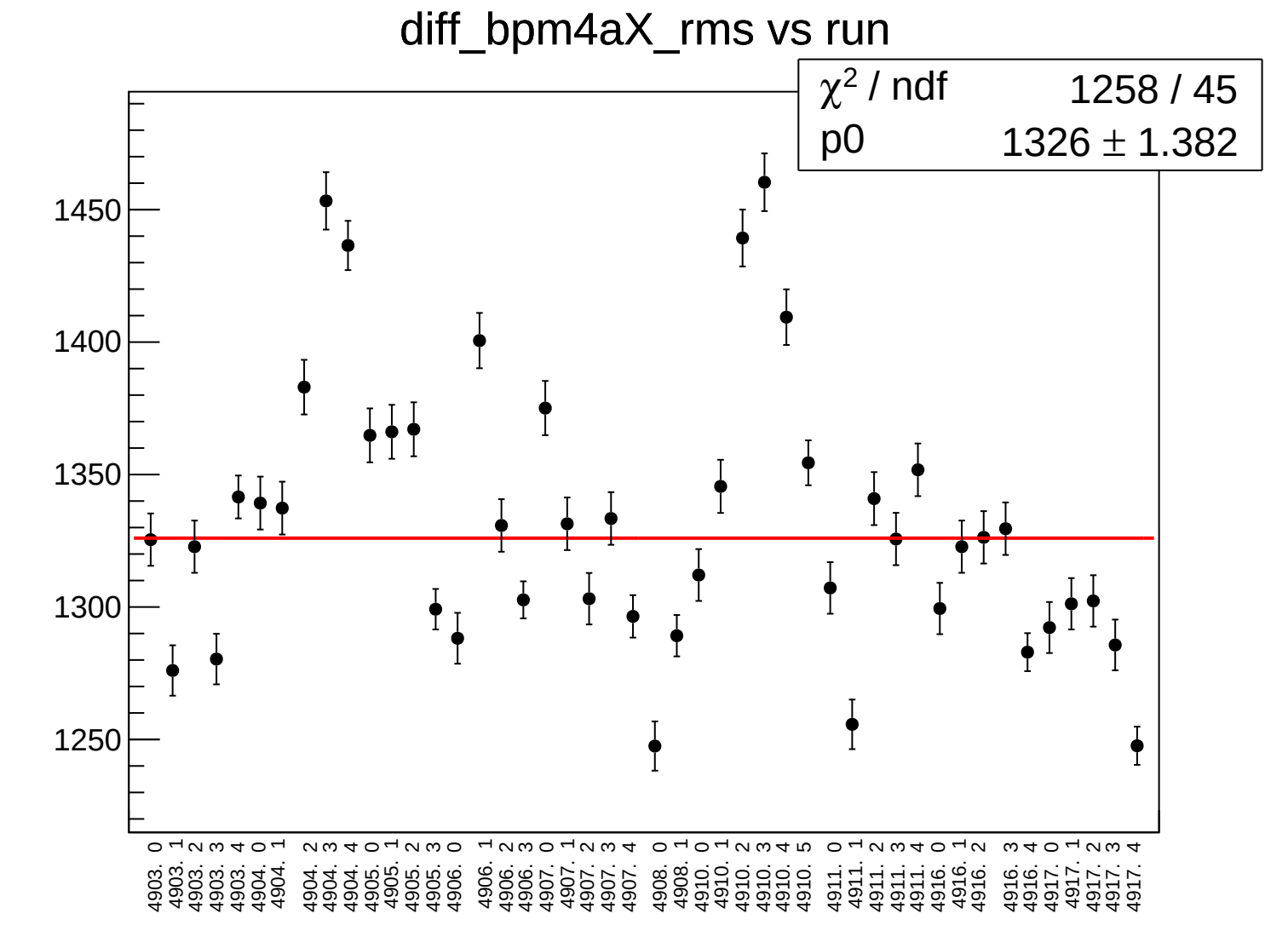

diff_cav4dX_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 8.862e+05 / 45
p0 8.546 ± 0.0449
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

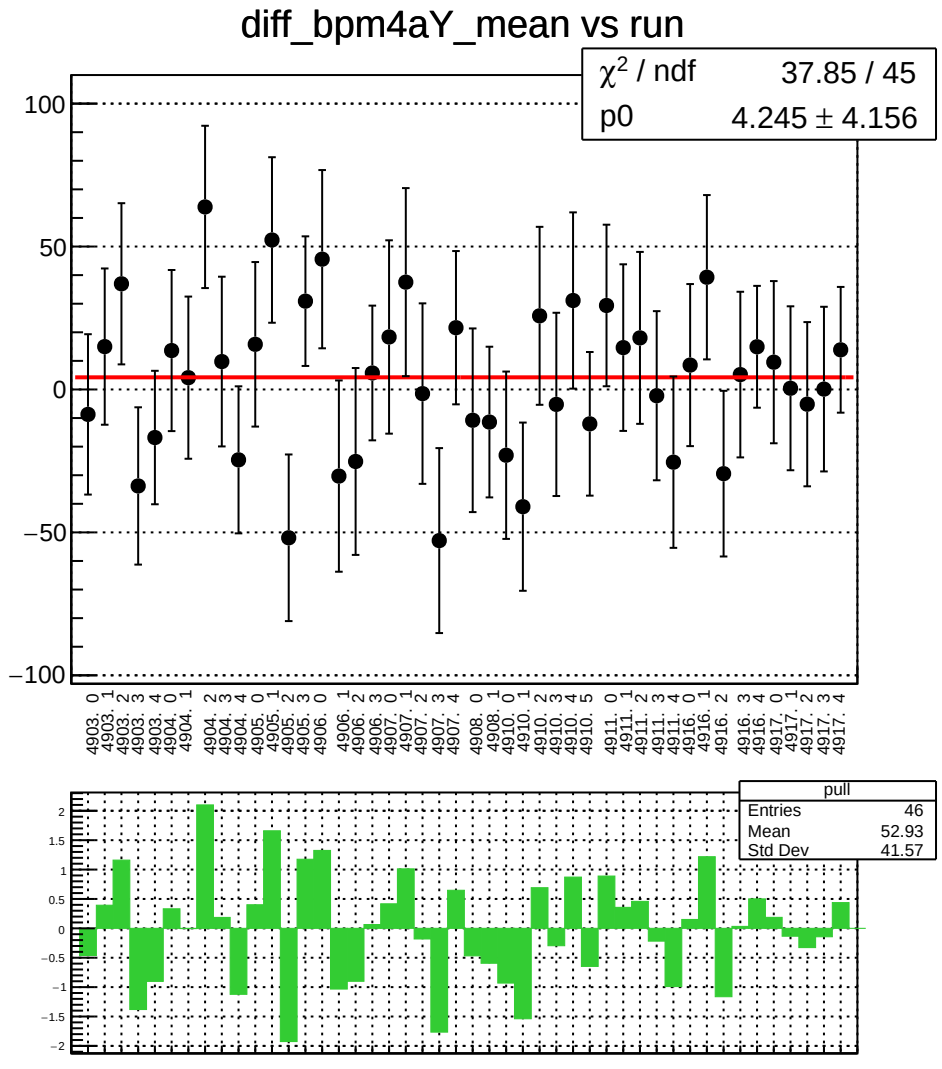

diff_cav4dY_mean vs run
χ² / ndf 36.44 / 45
p0 −16.19 ± 9.035
600
400
200
0
−200
−400
−600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −41.32
Std Dev 62.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.03082
Std Dev 0.8895
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

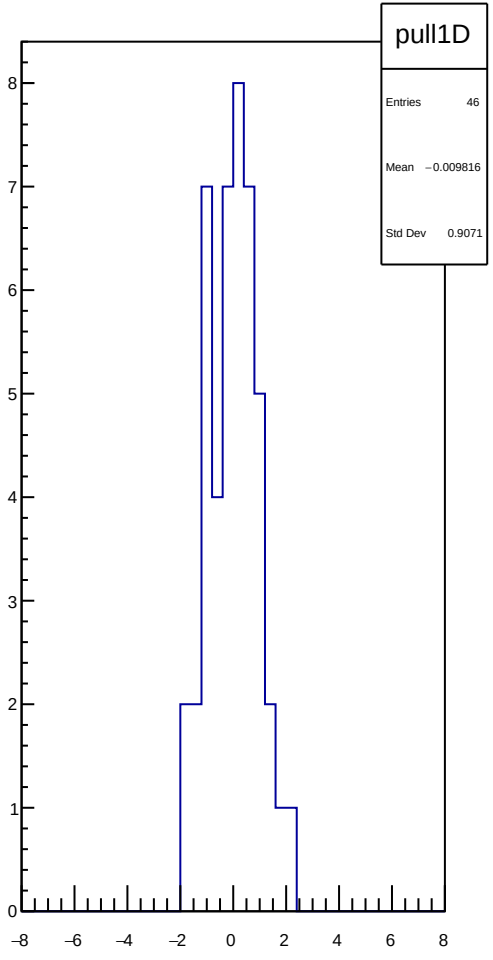

diff_cav4dY_rms vs run
χ² / ndf 6.476e+05 / 45
p0 3349 ± 6.388
25000
20000
15000
10000
5000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

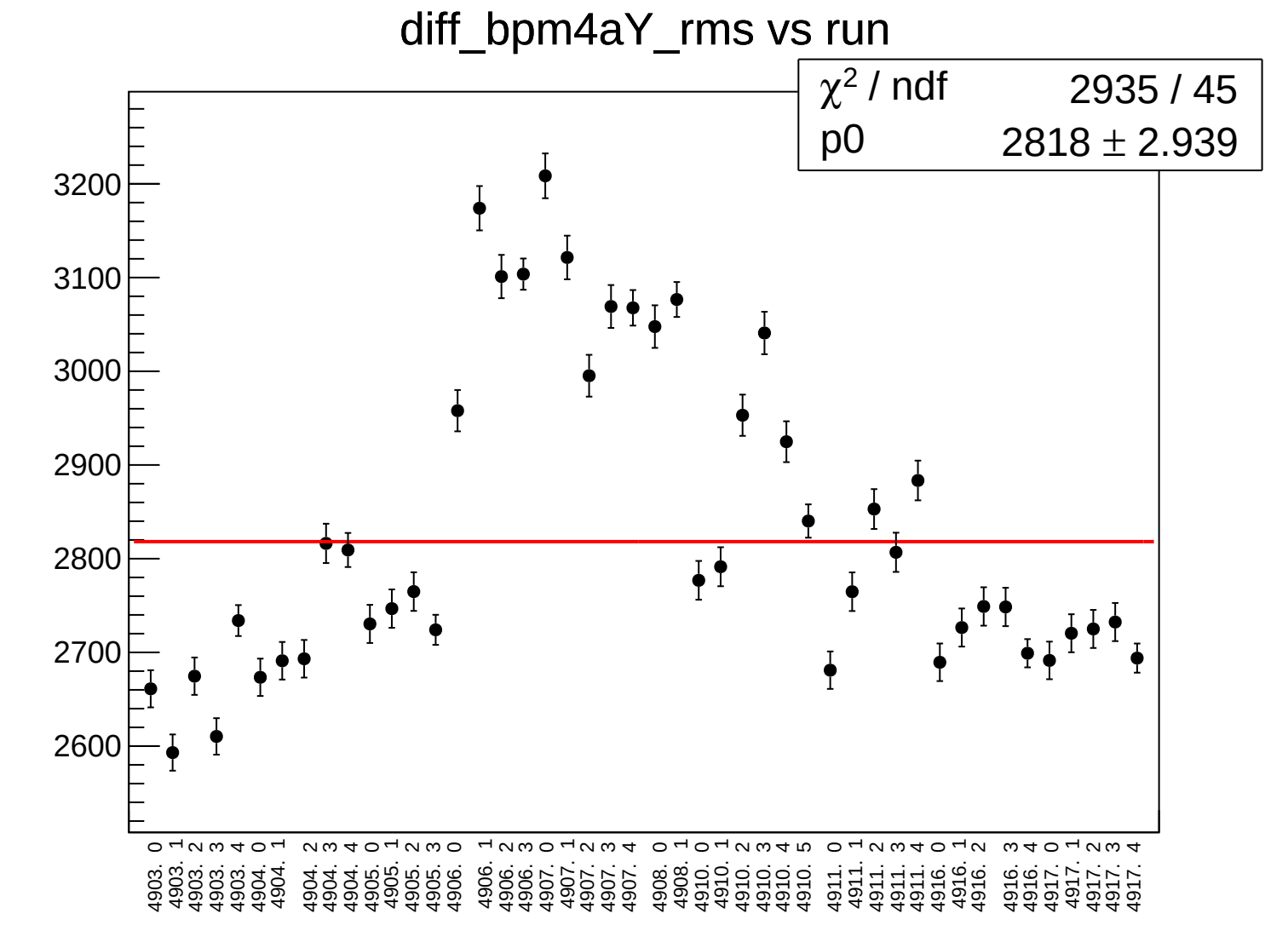

diff_bpm4aX_mean vs run
χ² / ndf 29.97 / 45
p0 2.93 ± 1.954
pull
Entries 46
Mean 69.79
Std Dev 46.03

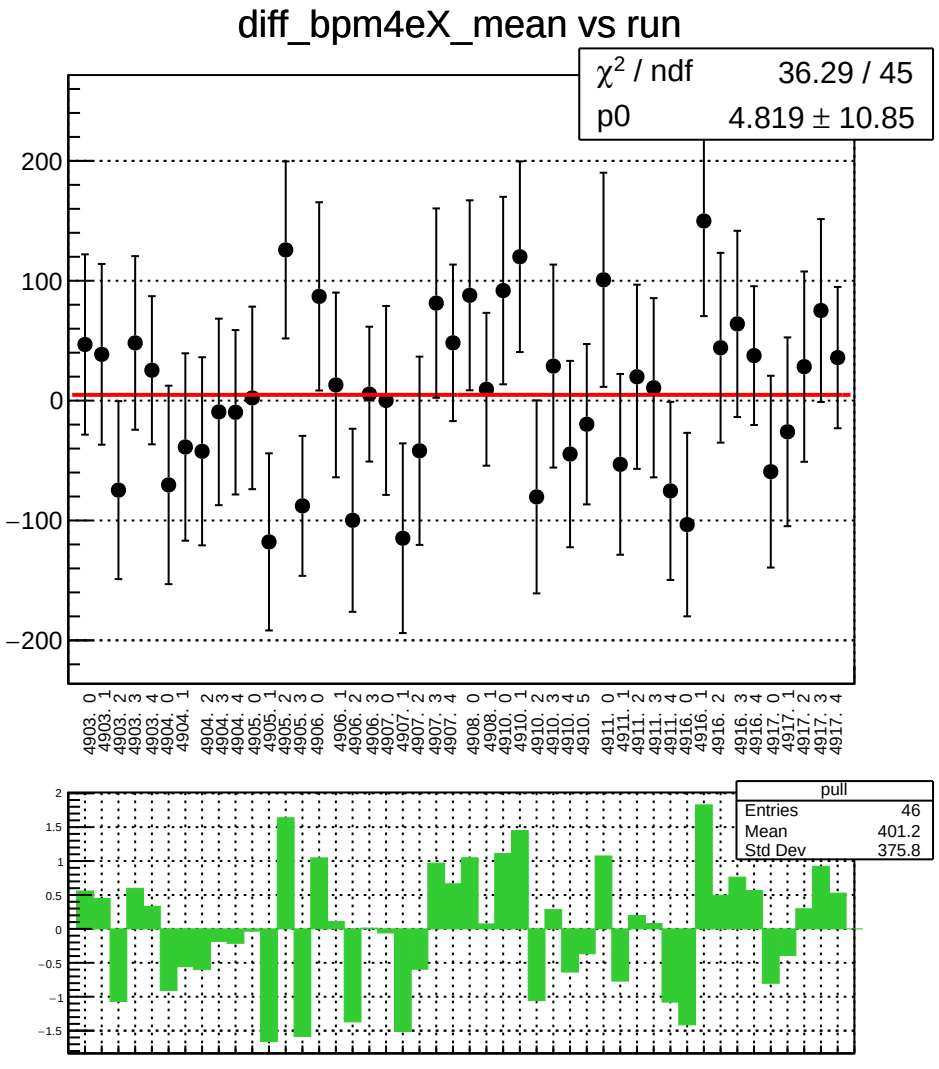

pull1D
Entries 46
Mean 0.02803
Std Dev 0.8067

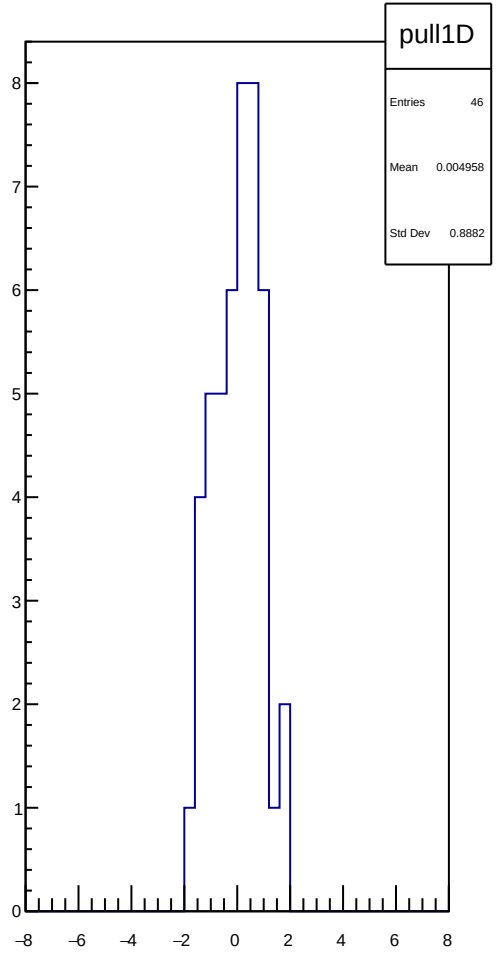

diff_bpm4aX_rms vs run
χ² / ndf 1258 / 45
p0 1326 ± 1.382
1450
1400
1350
1300
1250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

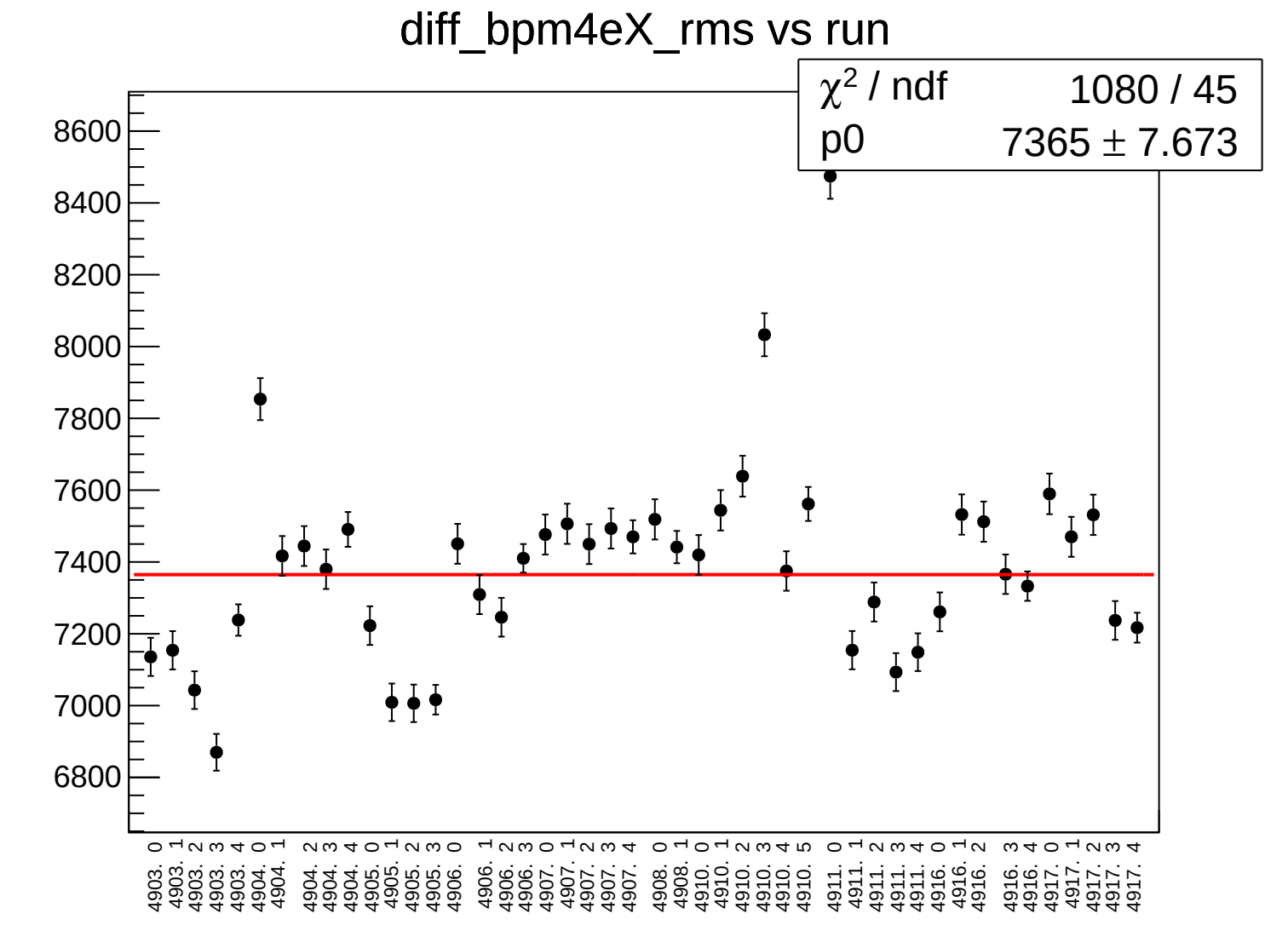

diff_bpm4aY_mean vs run
χ² / ndf 37.85 / 45
p0 4.245 ± 4.156
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 52.93
Std Dev 41.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

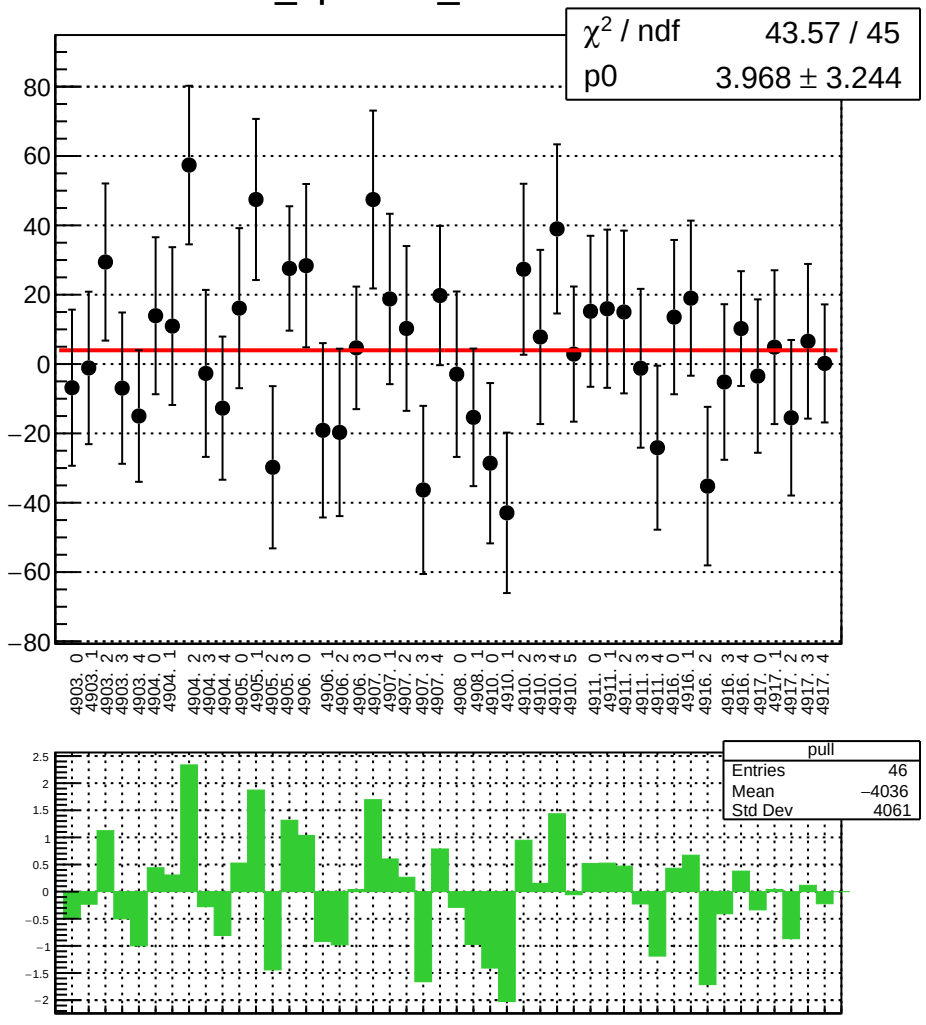

pull1D
Entries 46
Mean −0.009816
Std Dev 0.9071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

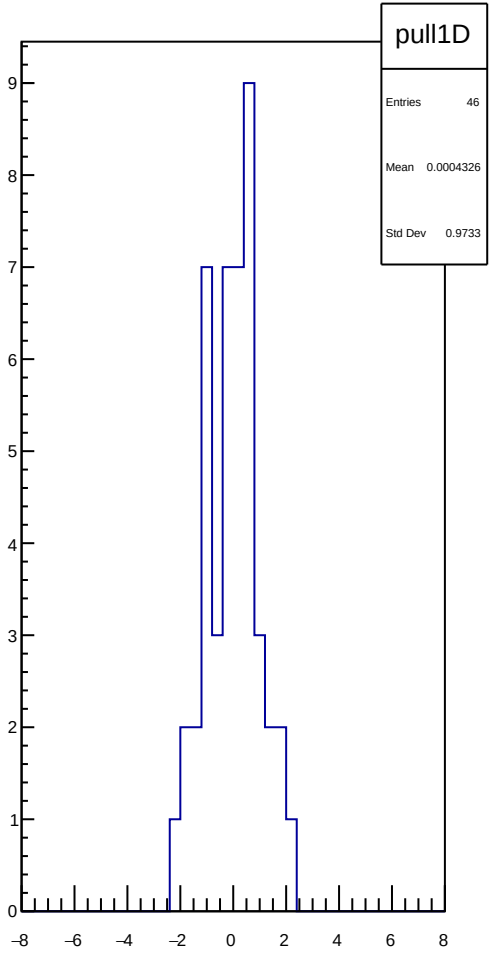

diff_bpm4aY_rms vs run
χ² / ndf 2935 / 45
p0 2818 ± 2.939
3200
3100
3000
2900
2800
2700
2600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

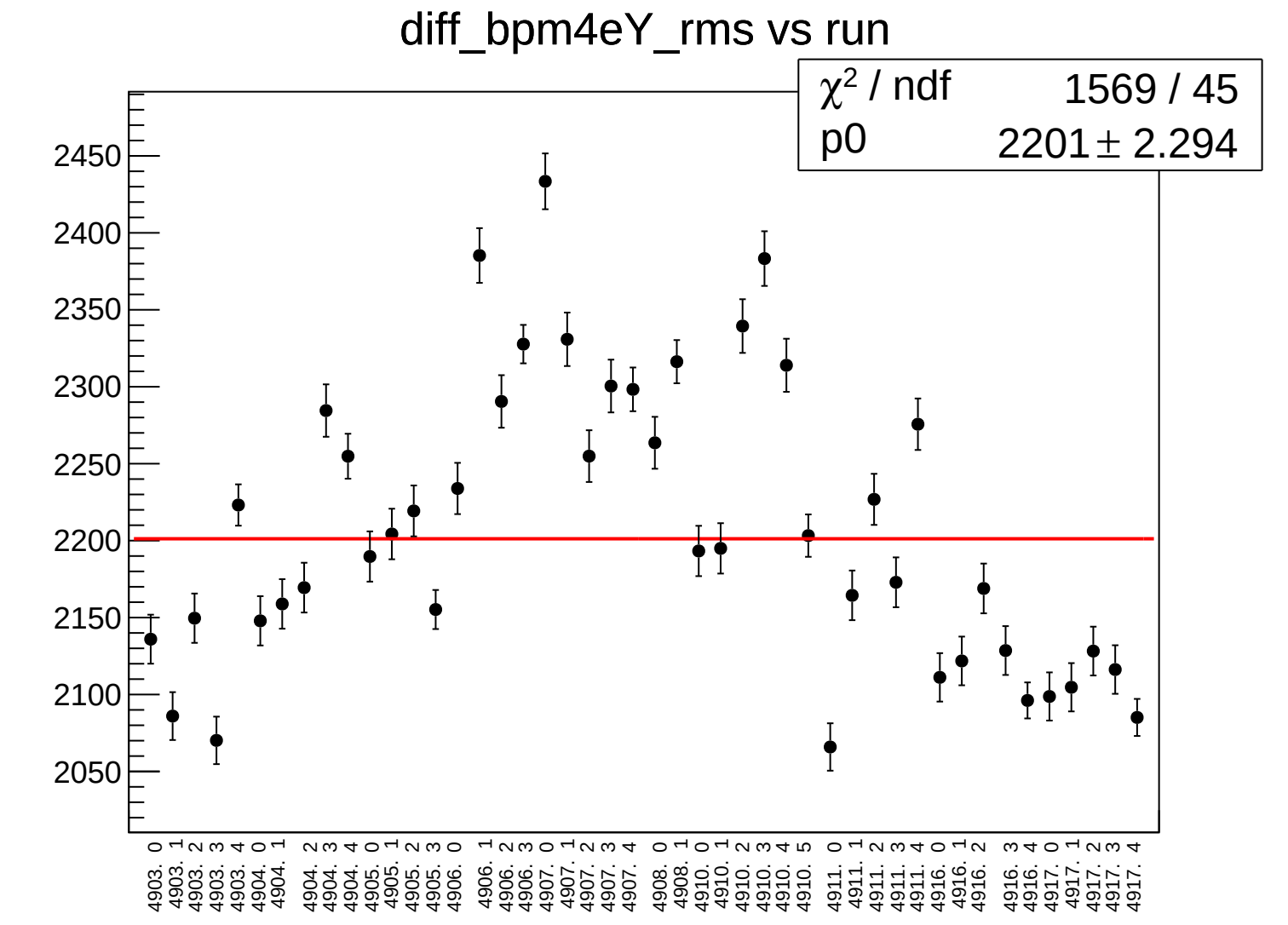

diff_bpm4eX_mean vs run
χ² / ndf 36.29 / 45
p0 4.819 ± 10.85
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 401.2
Std Dev 375.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

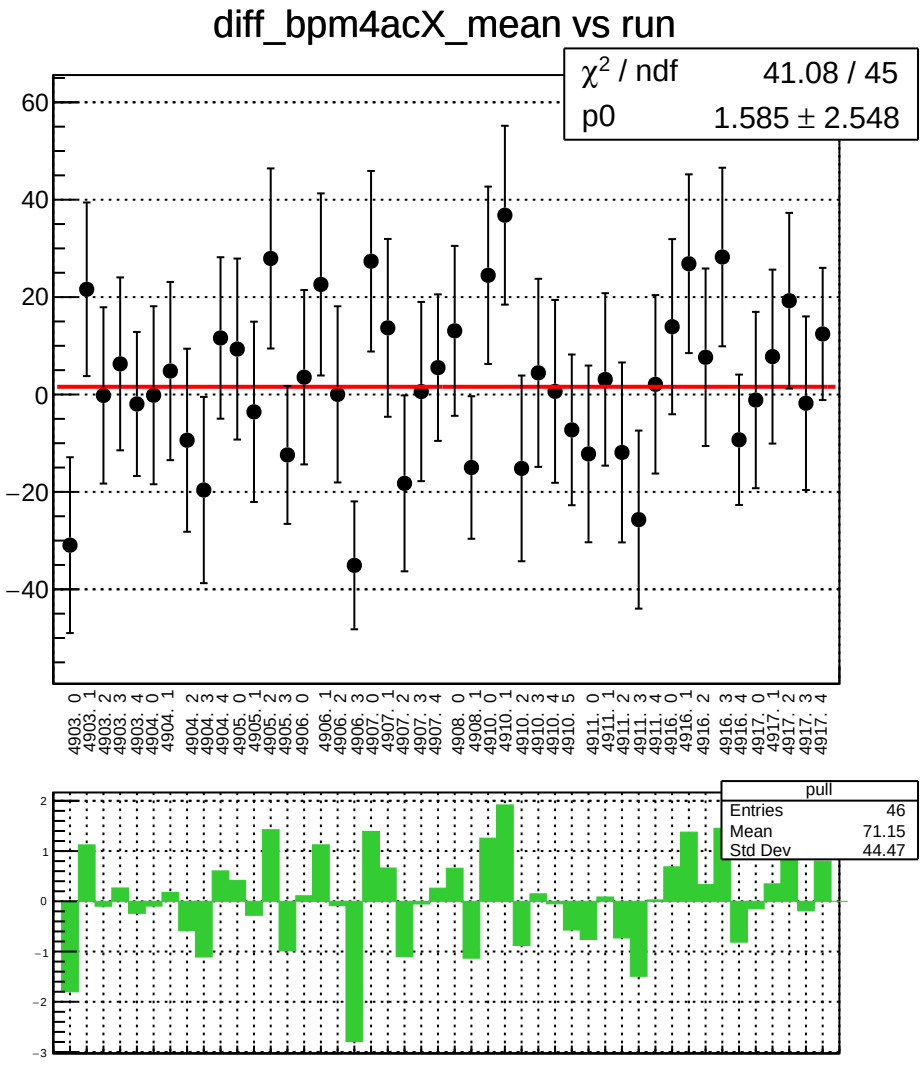

pull1D
Entries 46
Mean 0.004958
Std Dev 0.8882
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

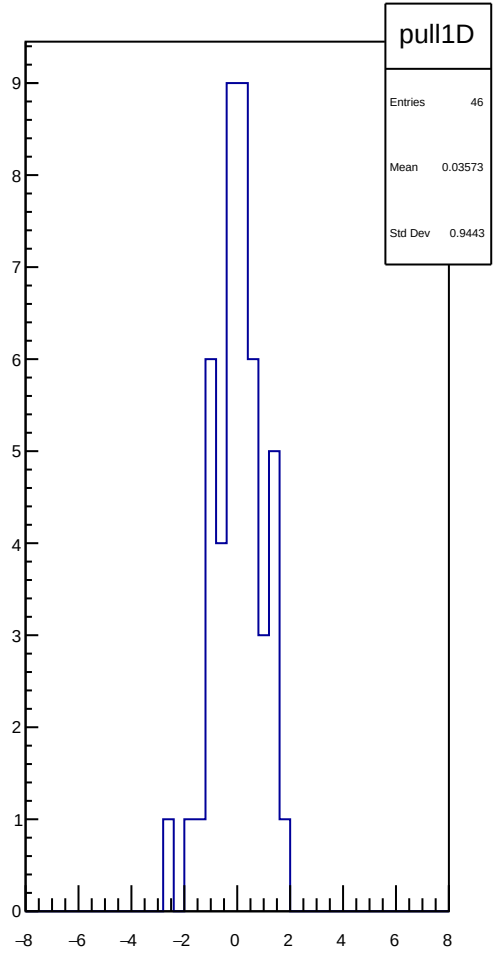

diff_bpm4eX_rms vs run
χ² / ndf 1080 / 45
p0 7365 ± 7.673
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

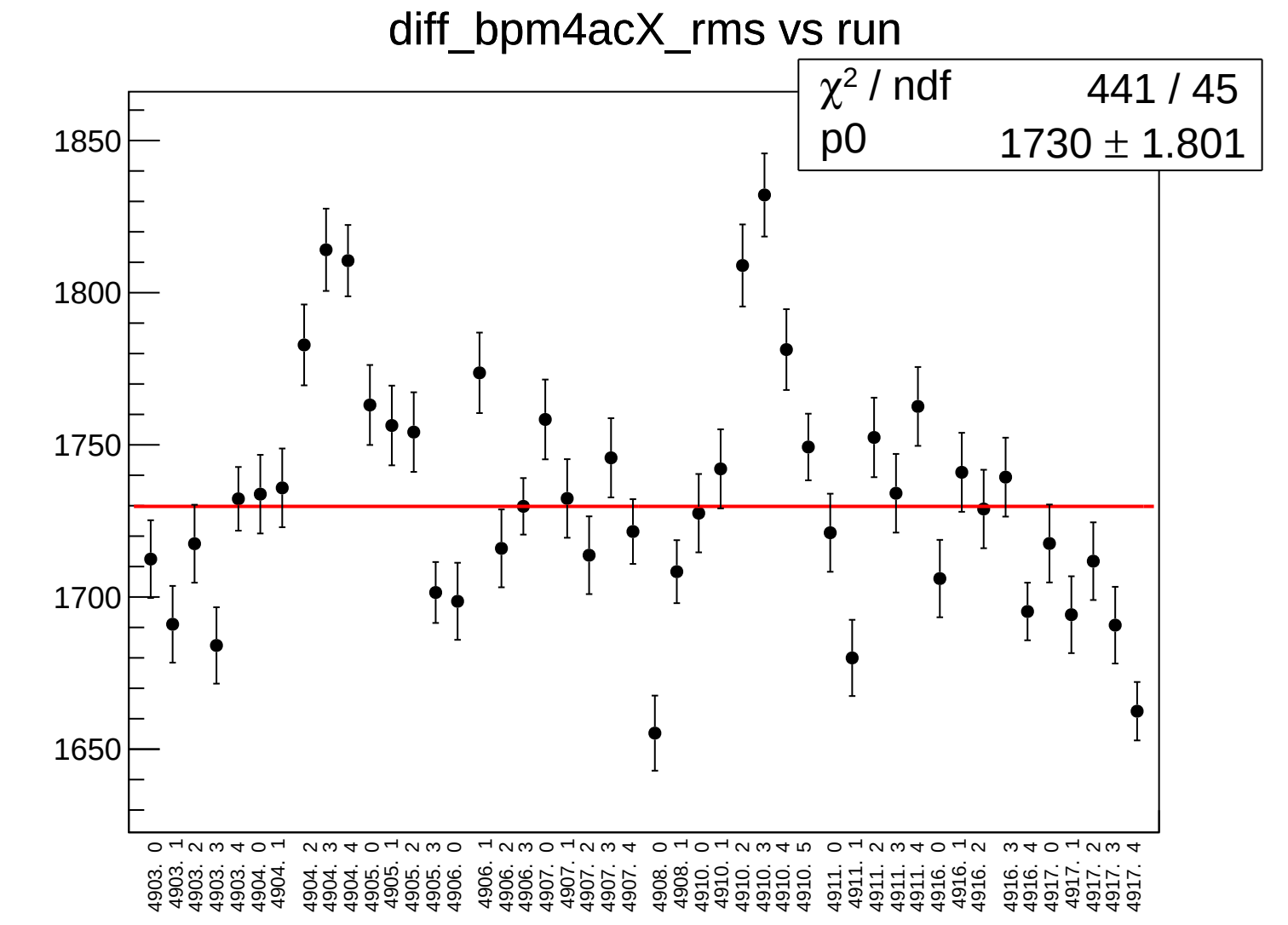

diff_bpm4eY_mean vs run
χ² / ndf 43.57 / 45
p0 3.968 ± 3.244
pull
Entries 46
Mean −4036
Std Dev 4061

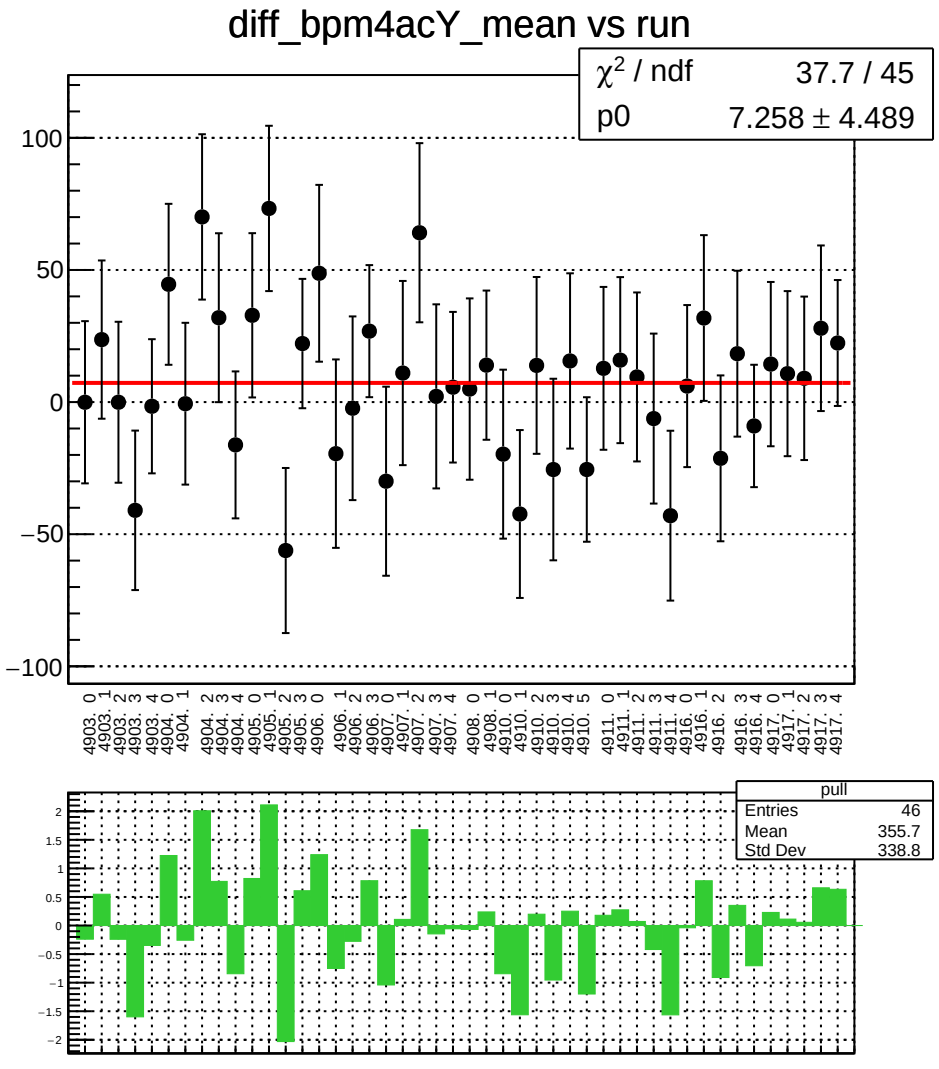

pull1D
Entries 46
Mean 0.0004326
Std Dev 0.9733

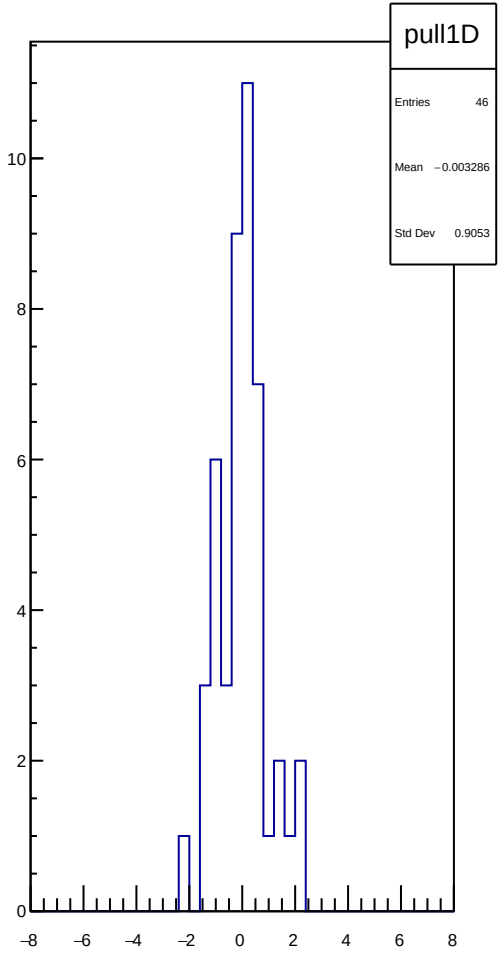

diff_bpm4eY_rms vs run
χ² / ndf 1569 / 45
p0 2201 ± 2.294
2450
2400
2350
2300
2250
2200
2150
2100
2050
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

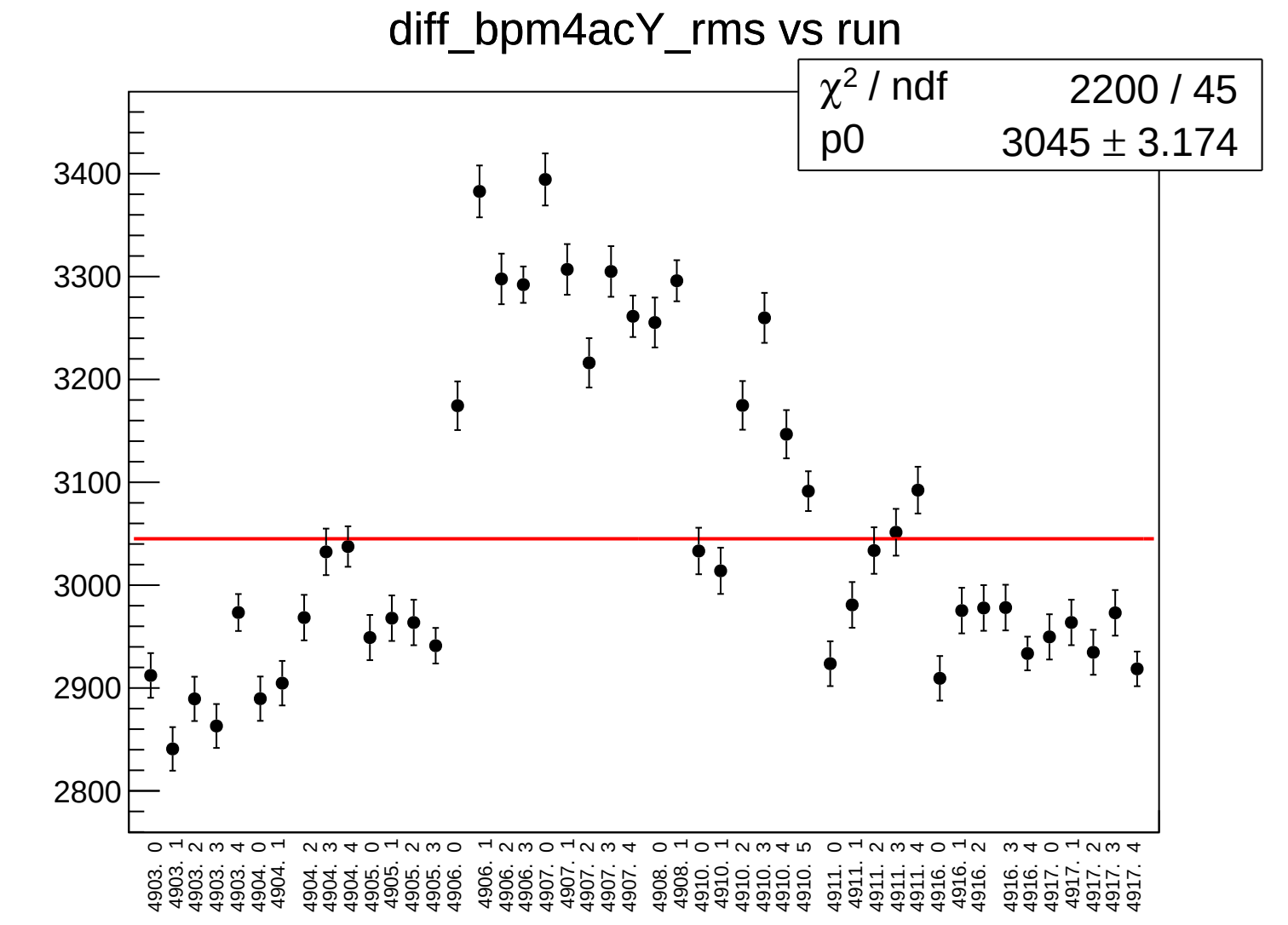

diff_bpm4acX_mean vs run
χ^2 / ndf 41.08 / 45
p0 1.585 ± 2.548
60
40
20
0
−20
−40
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 71.15
Std Dev 44.47
2
1
0
−1
−2
−3

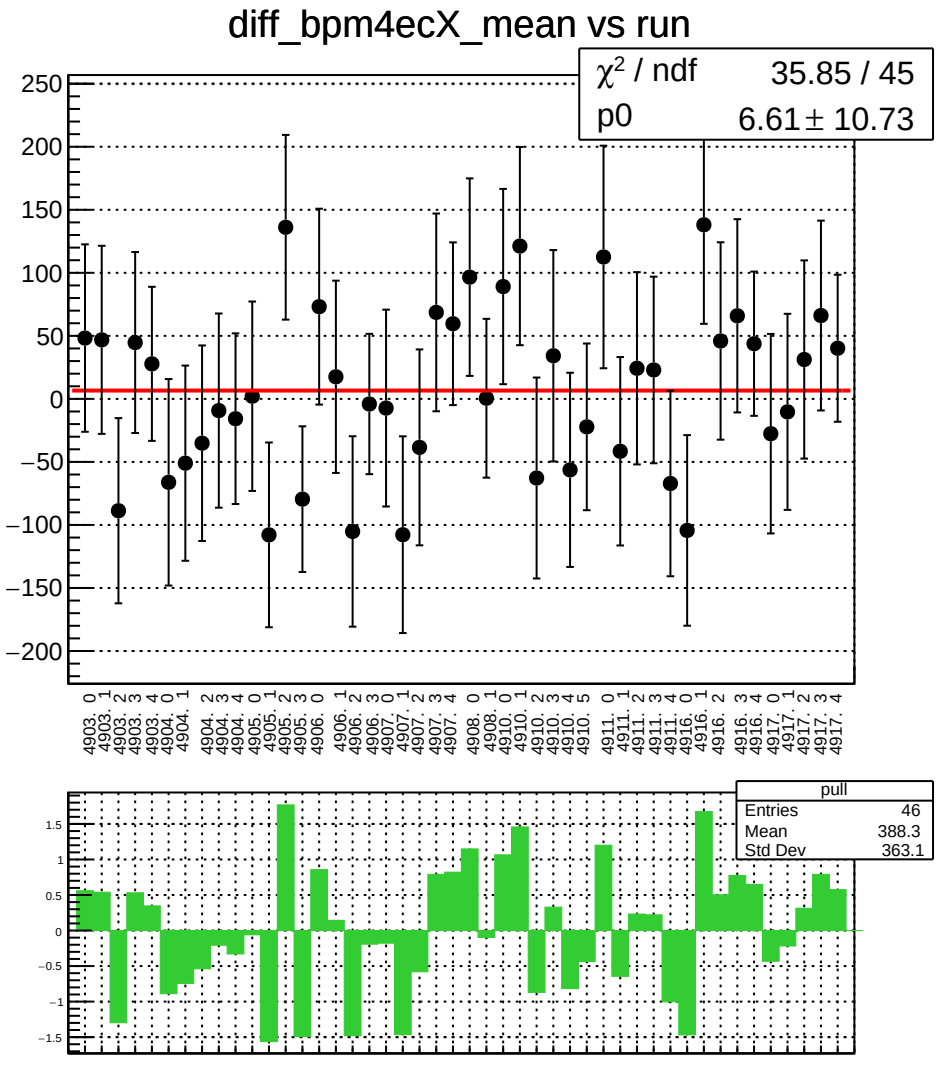

pull1D
Entries 46
Mean 0.03573
Std Dev 0.9443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

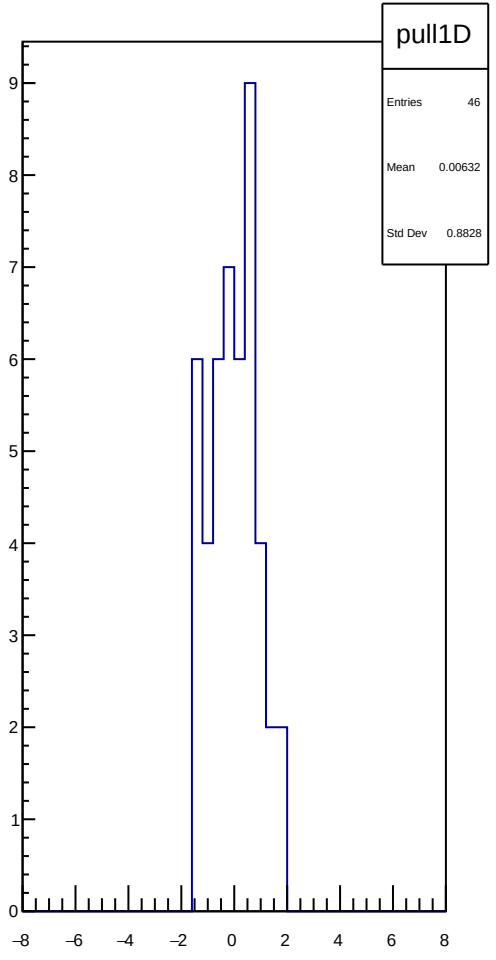

diff_bpm4acX_rms vs run
χ² / ndf 441 / 45
p0 1730 ± 1.801
1850
1800
1750
1700
1650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

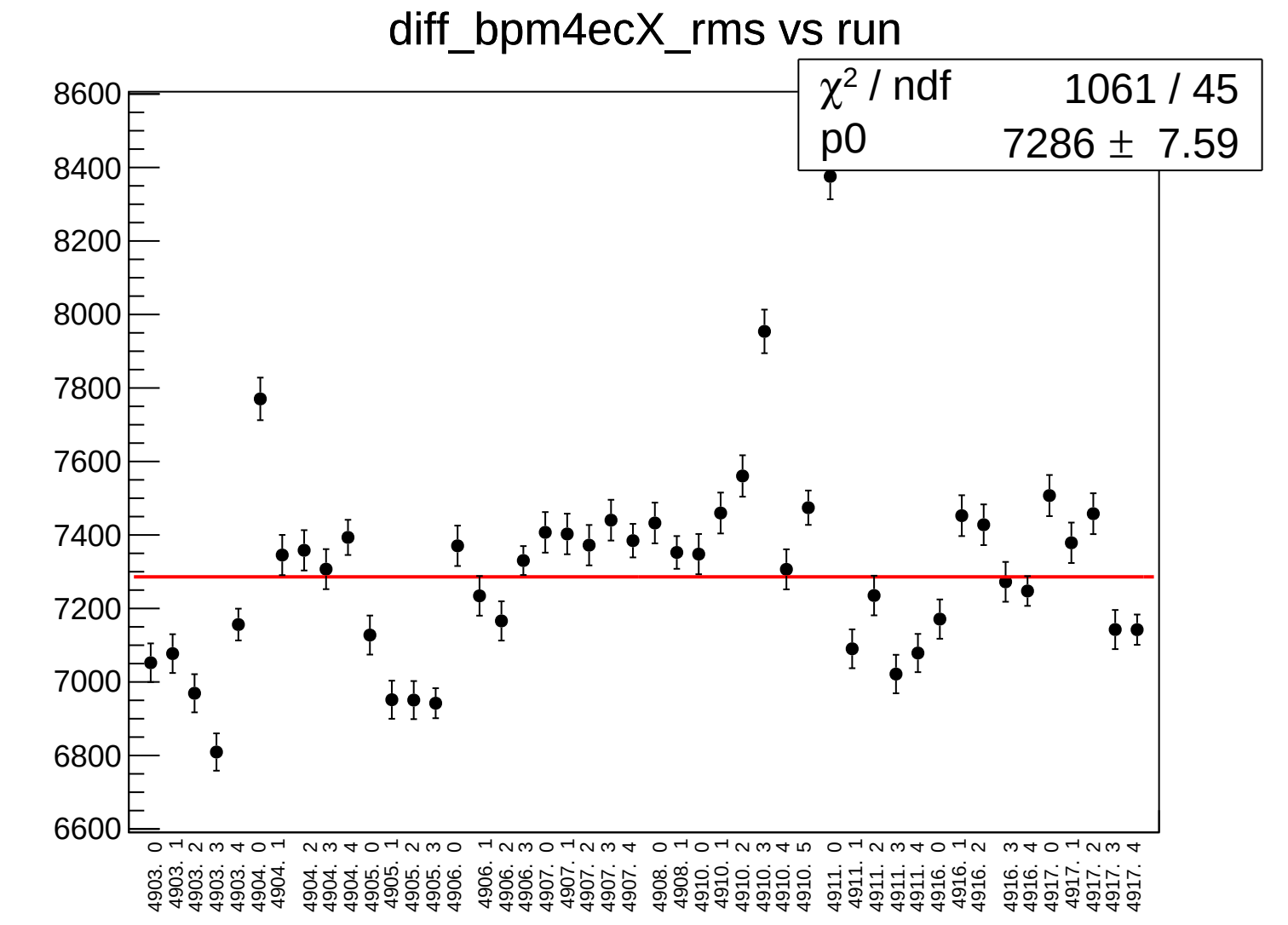

diff_bpm4acY_mean vs run
χ² / ndf 37.7 / 45
p0 7.258 ± 4.489
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 355.7
Std Dev 338.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.003286
Std Dev 0.9053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acY_rms vs run
χ² / ndf 2200 / 45
p0 3045 ± 3.174
3400
3300
3200
3100
3000
2900
2800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


diff_bpm4ecX_mean vs run
χ² / ndf 35.85 / 45
p0 6.61 ± 10.73
250
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 388.3
Std Dev 363.1
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.00632
Std Dev 0.8828
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecX_rms vs run
χ² / ndf 1061 / 45
p0 7286 ± 7.59
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
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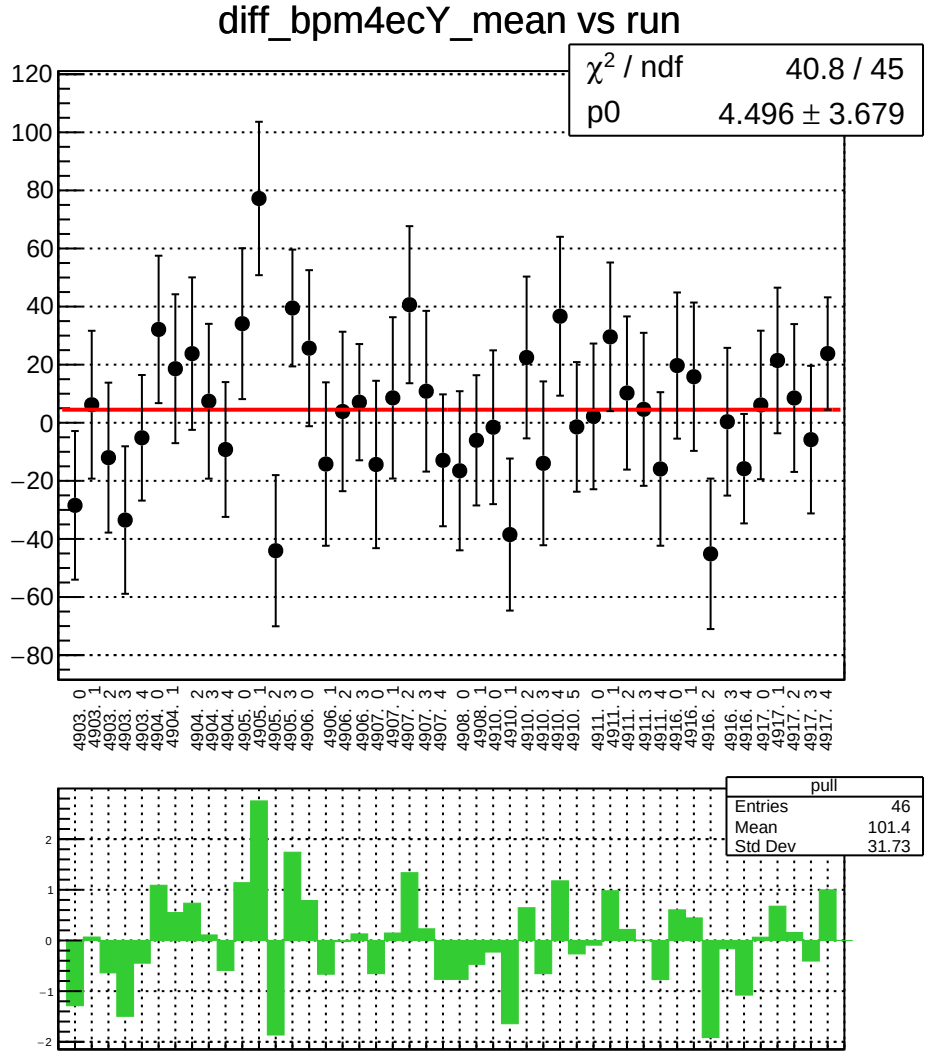
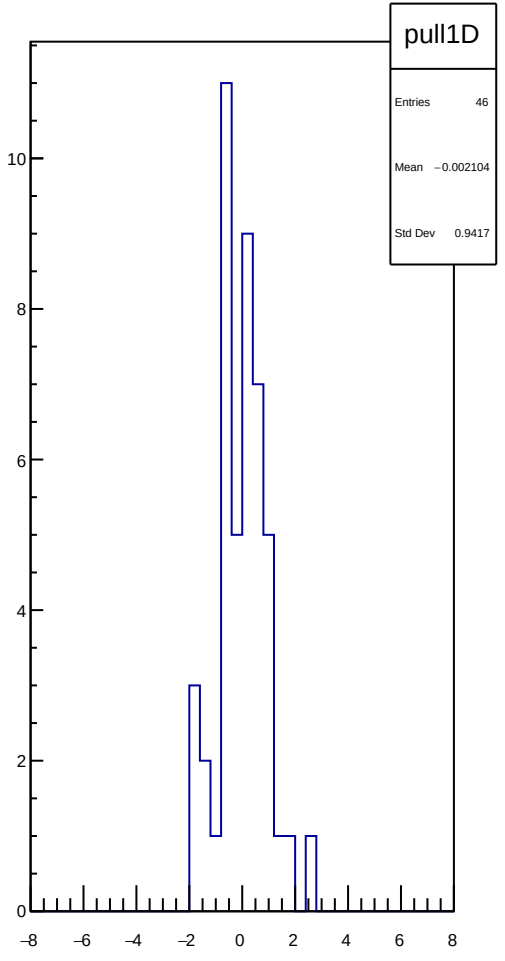
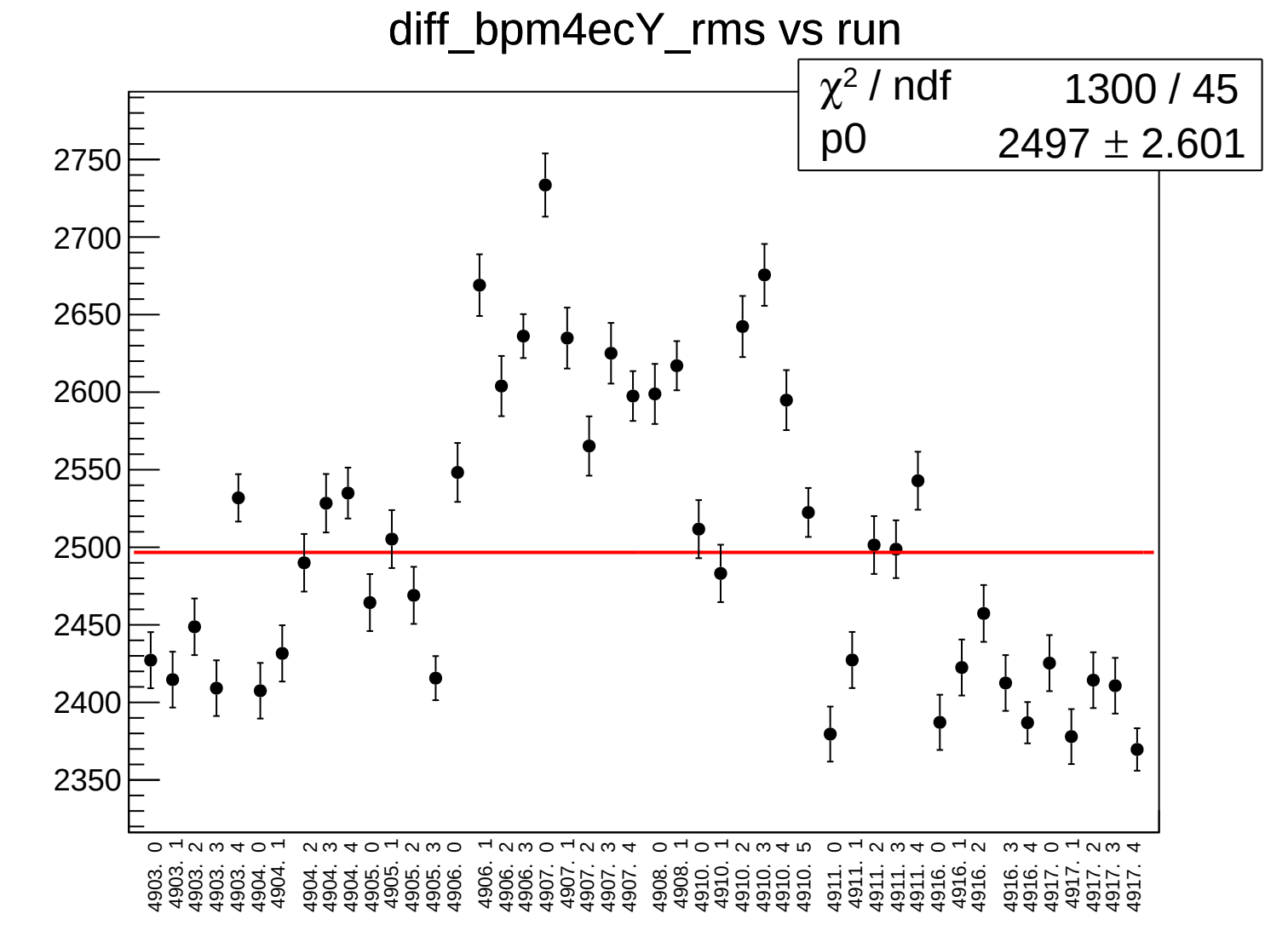
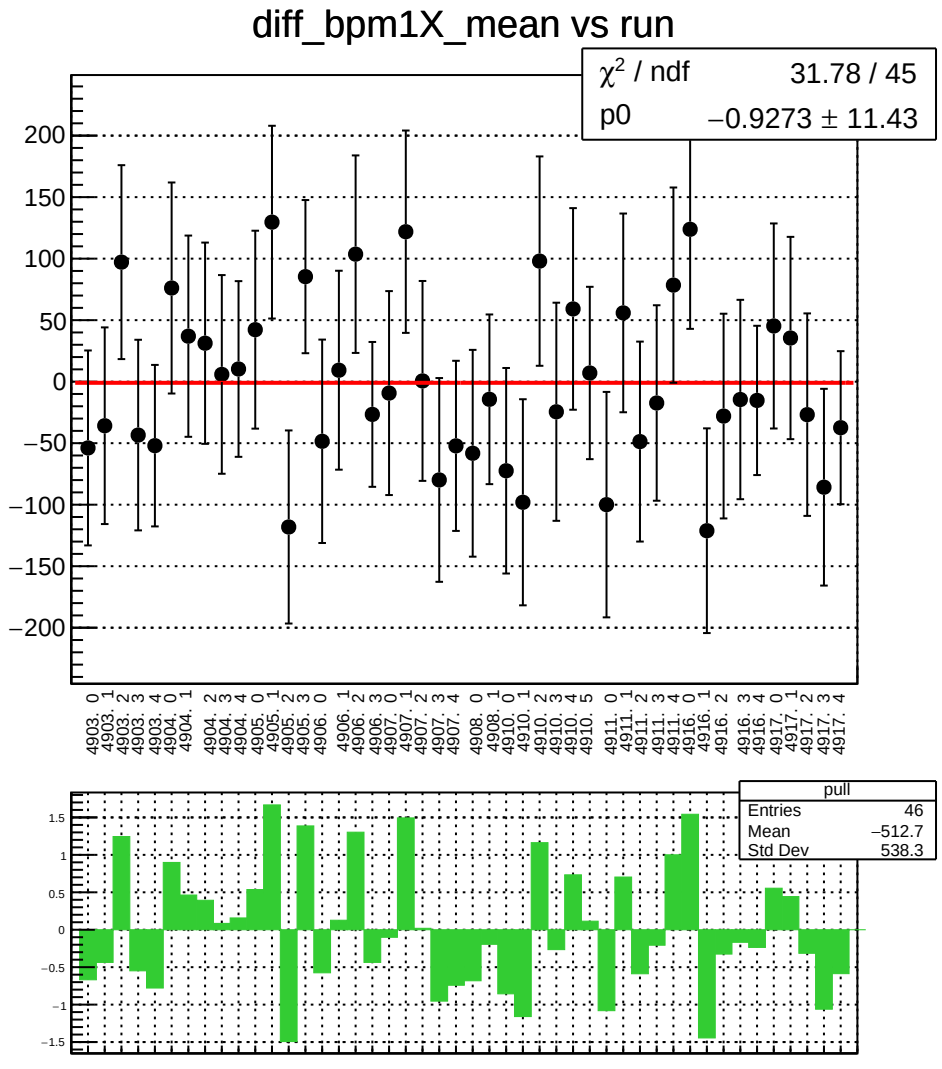
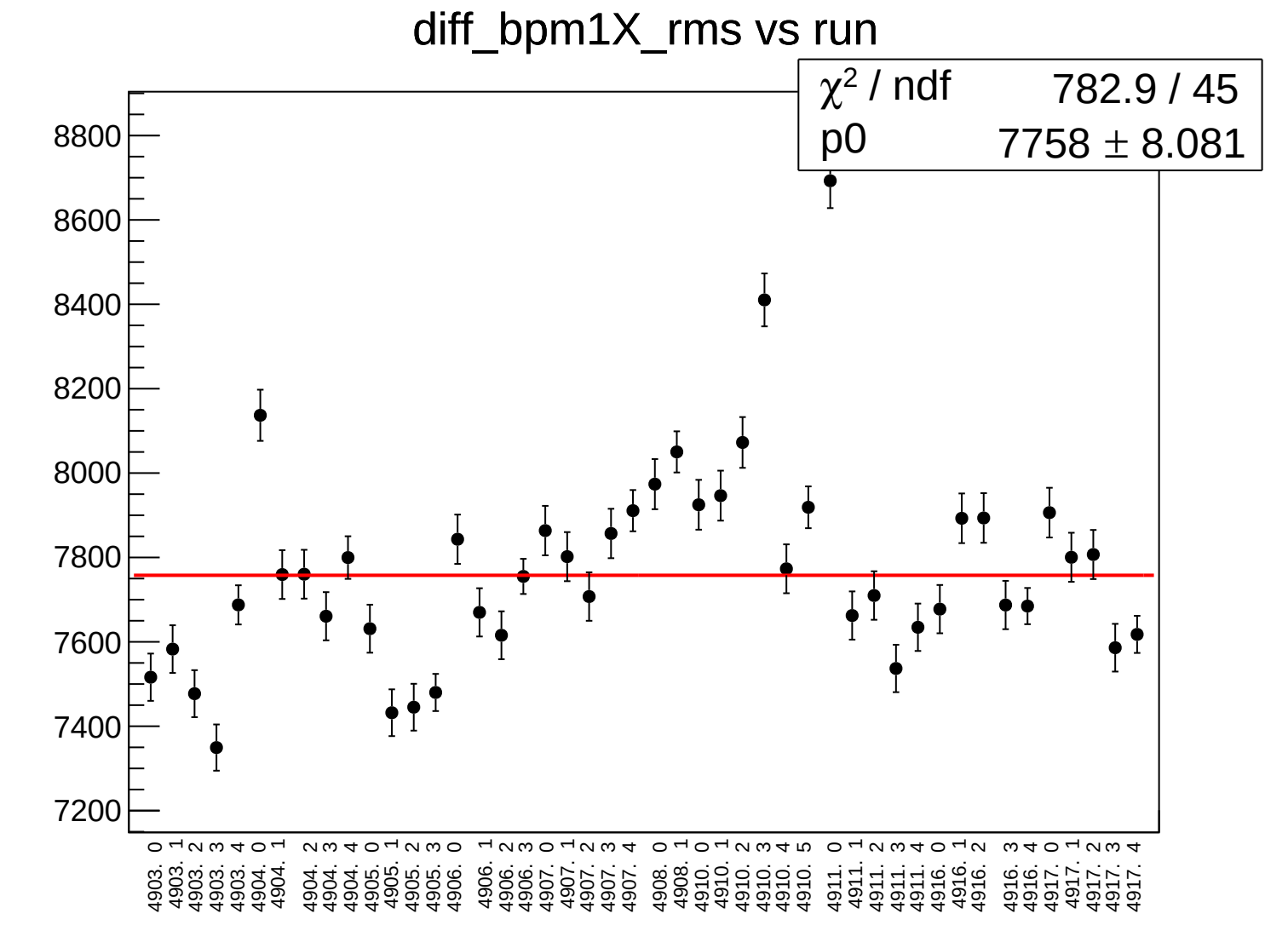
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

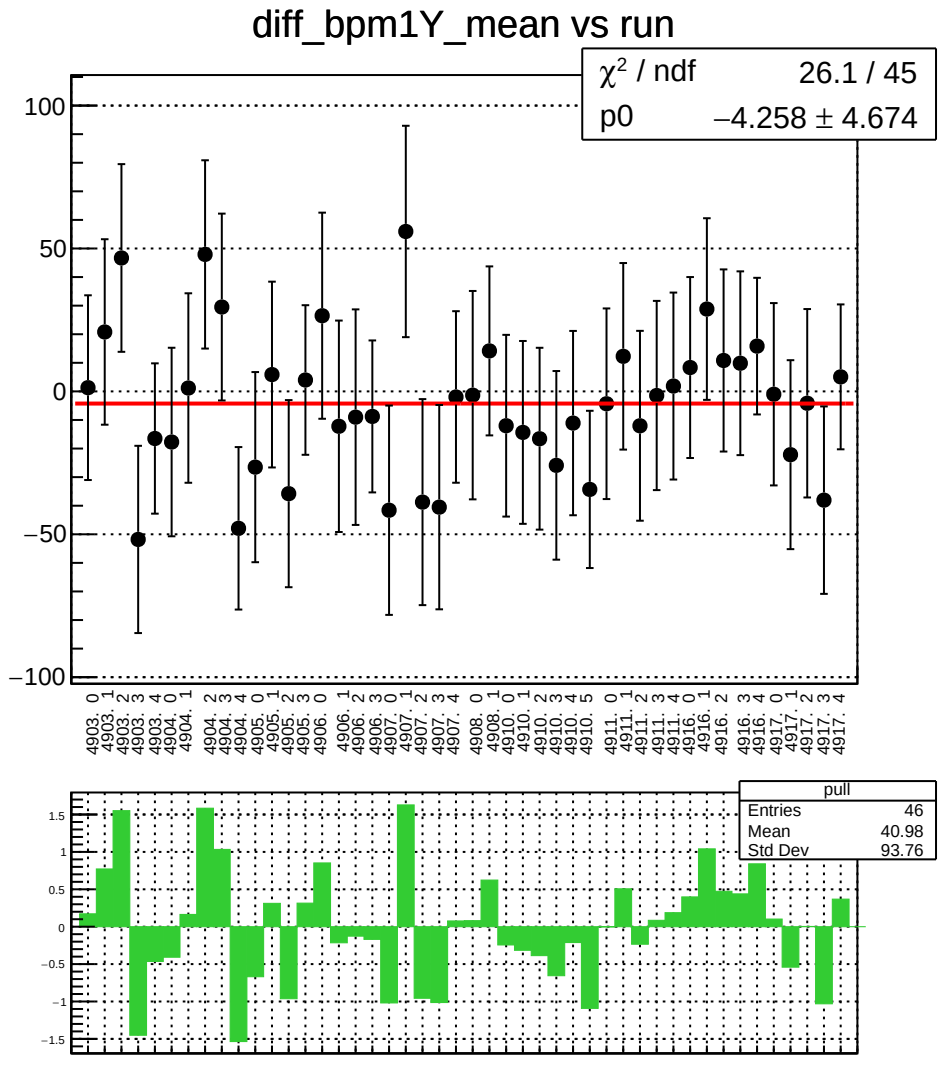

diff_bpm4ecY_mean vs run
χ^2 / ndf 40.8 / 45
p0 4.496 ± 3.679
pull
Entries 46
Mean 101.4
Std Dev 31.73

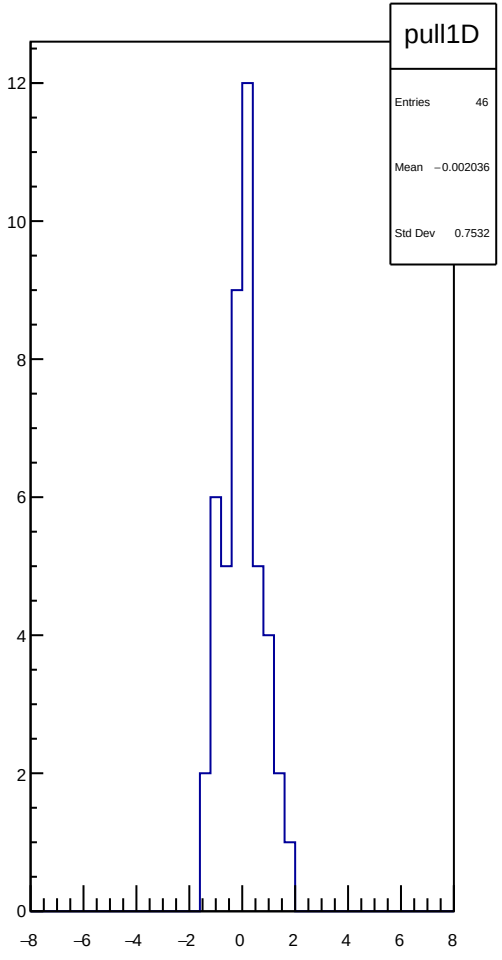

pull1D
Entries 46
Mean −0.002104
Std Dev 0.9417

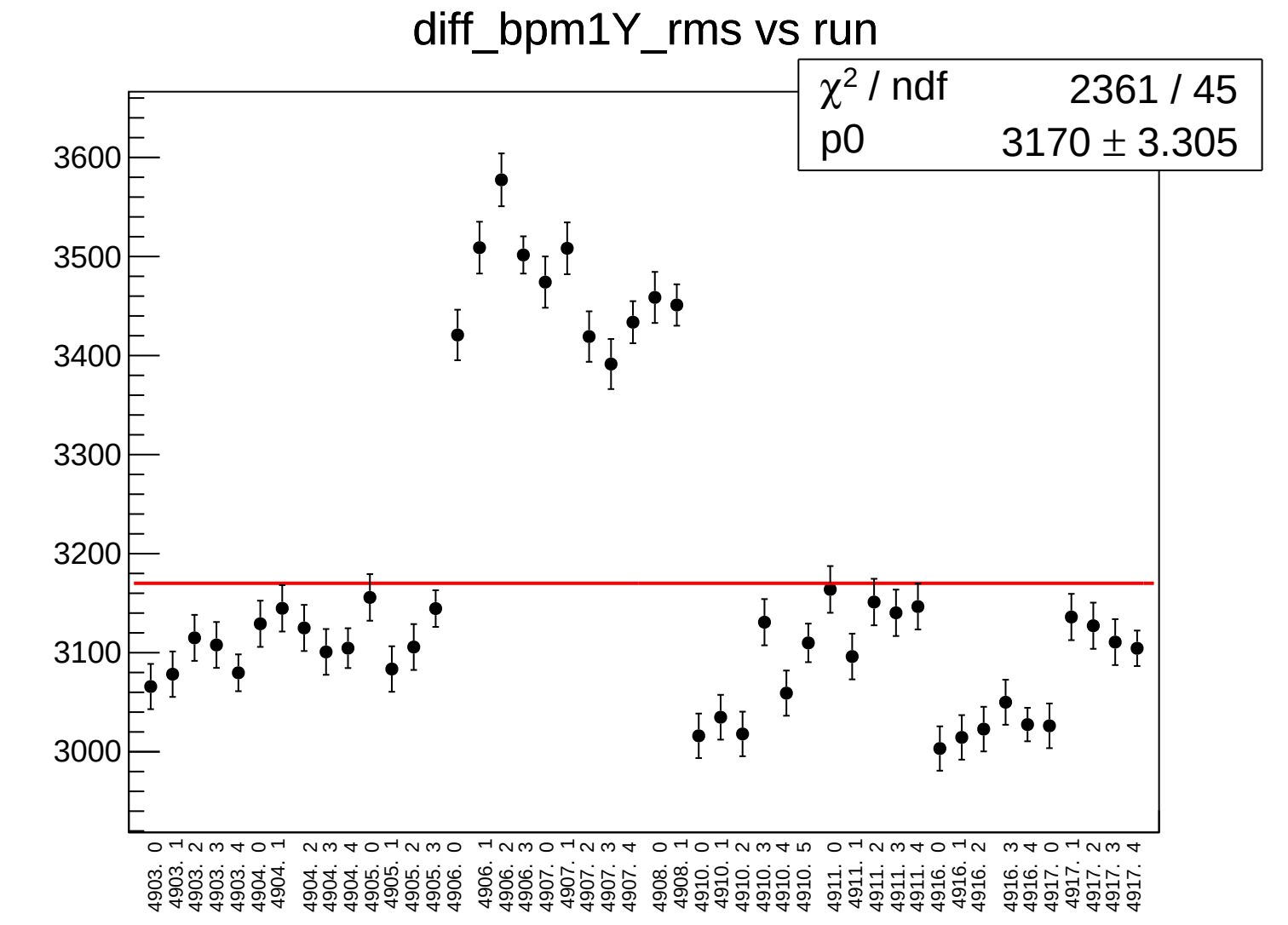

diff_bpm4ecY_rms vs run
χ² / ndf 1300 / 45
p0 2497 ± 2.601
2750
2700
2650
2600
2550
2500
2450
2400
2350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

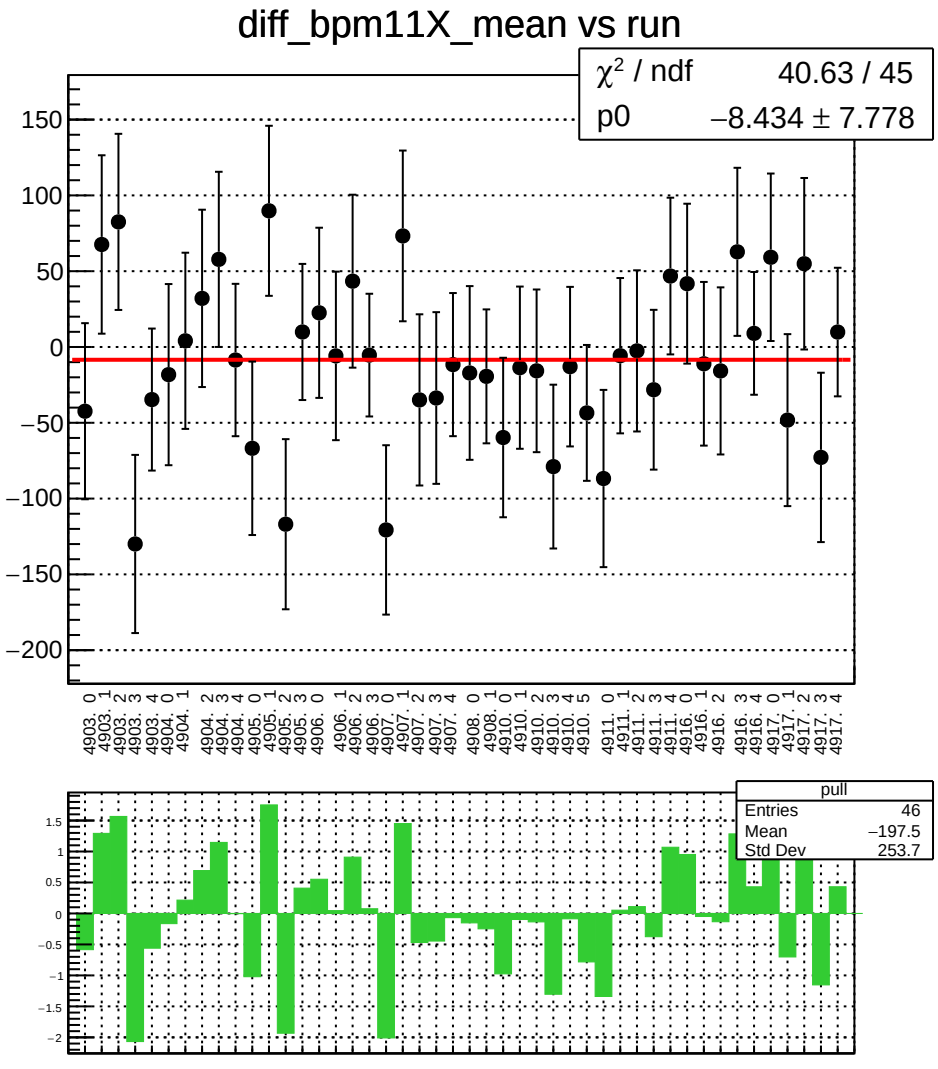

diff_bpm1X_mean vs run
χ^2 / ndf 31.78 / 45
p0 −0.9273 ± 11.43
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −512.7
Std Dev 538.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.002798
Std Dev 0.8312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

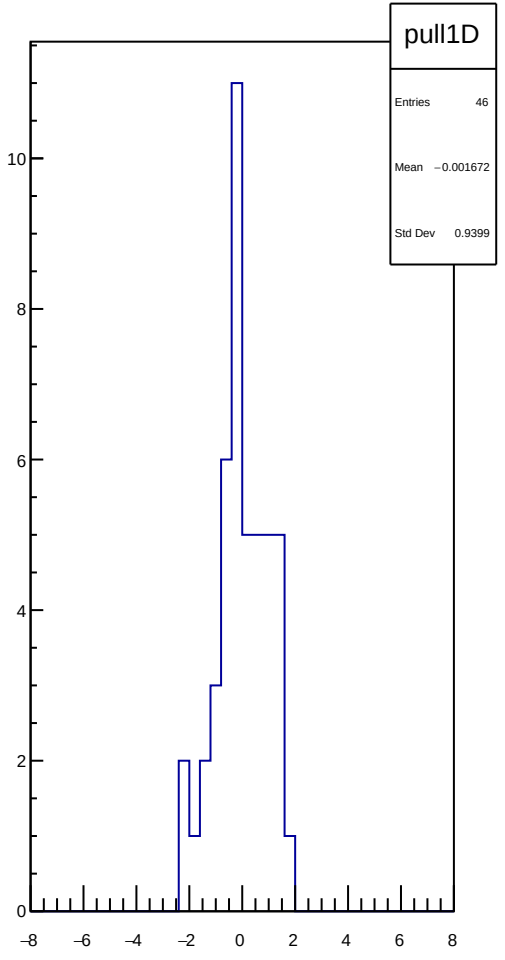

diff_bpm1X_rms vs run
χ² / ndf 782.9 / 45
p0 7758 ± 8.081
8800
8600
8400
8200
8000
7800
7600
7400
7200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

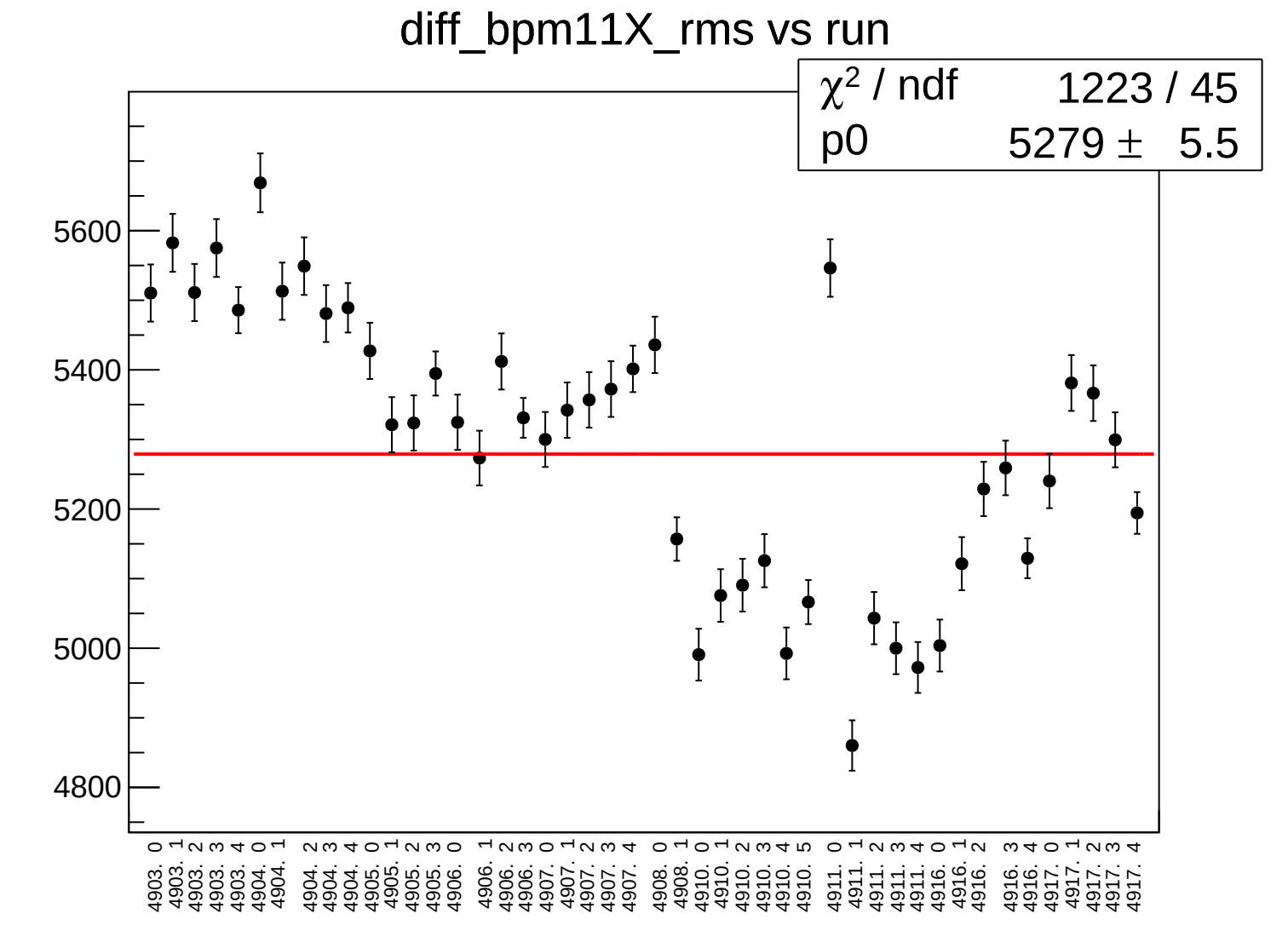

diff_bpm1Y_mean vs run
χ^2 / ndf 26.1 / 45
p0 −4.258 ± 4.674
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 40.98
Std Dev 93.76
1.5
1
0.5
0
−0.5
−1
−1.5

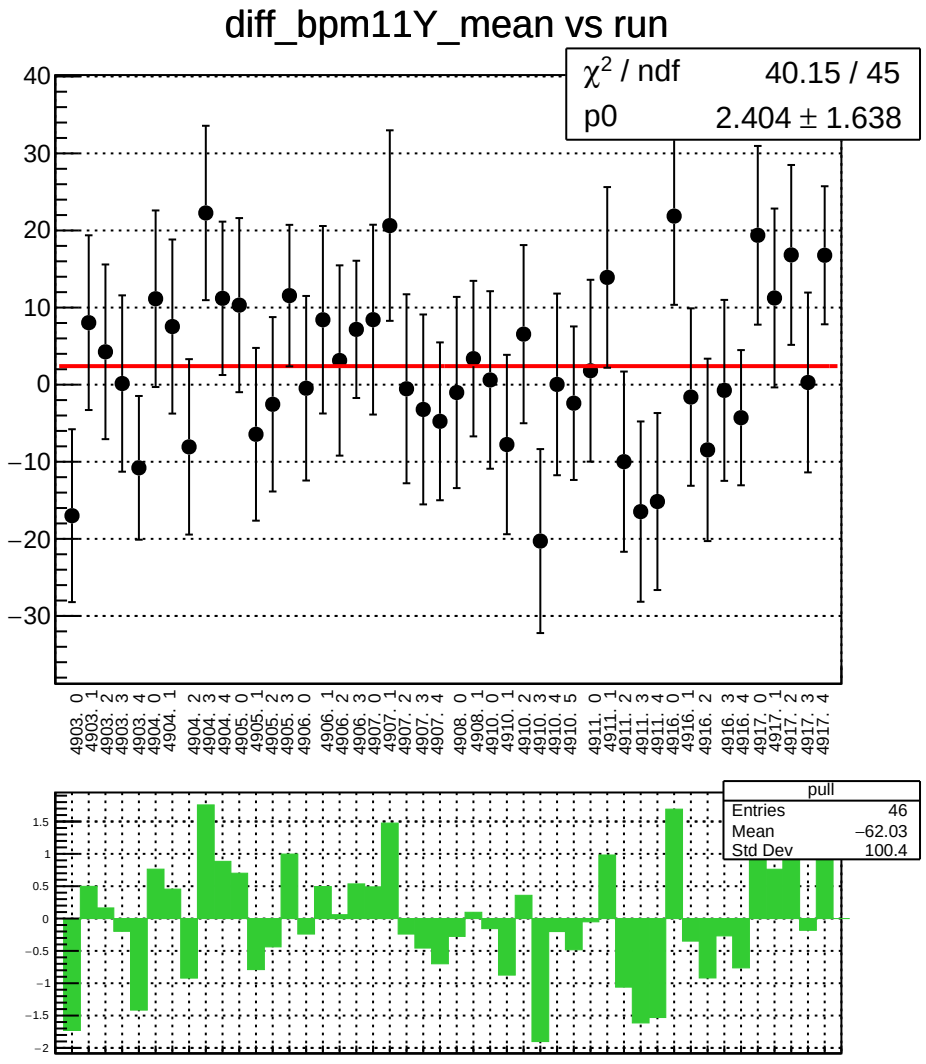

pull1D
Entries 46
Mean −0.002036
Std Dev 0.7532
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

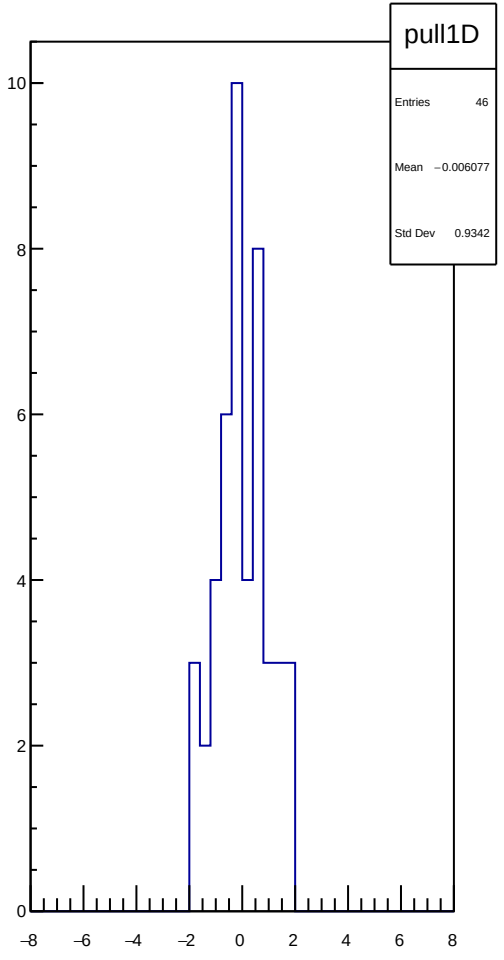

diff_bpm1Y_rms vs run
χ² / ndf 2361 / 45
p0 3170 ± 3.305
3600
3500
3400
3300
3200
3100
3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

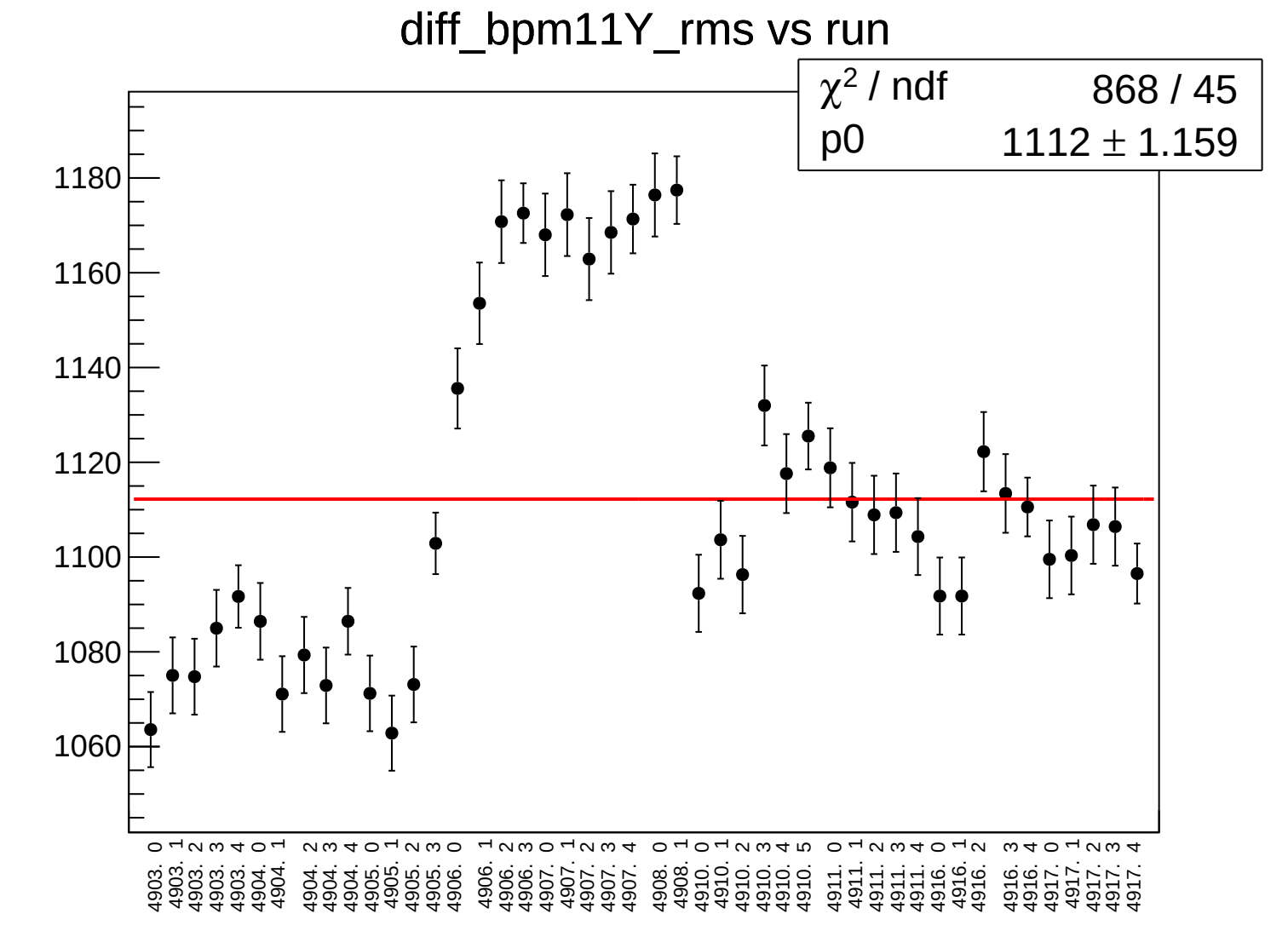

diff_bpm11X_mean vs run
χ² / ndf 40.63 / 45
p0 −8.434 ± 7.778
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −197.5
Std Dev 253.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

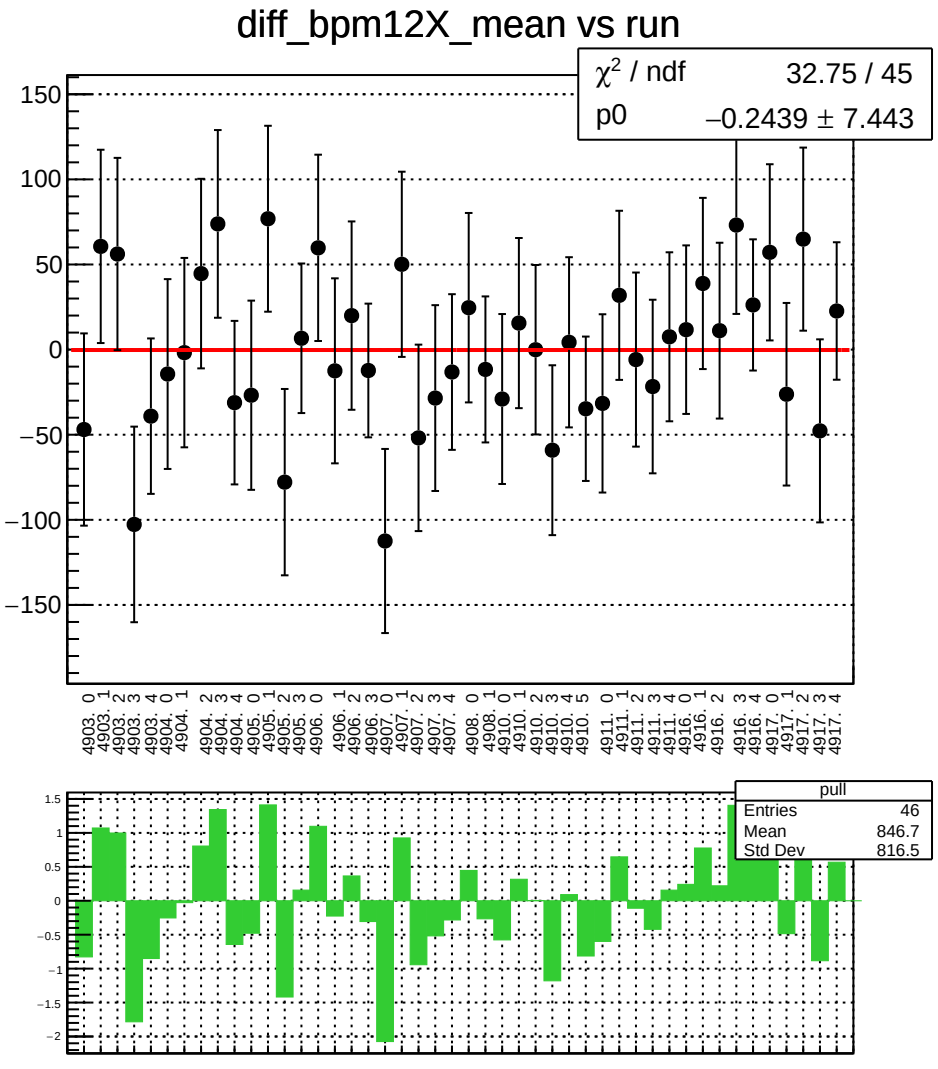

pull1D
Entries 46
Mean −0.001672
Std Dev 0.9399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

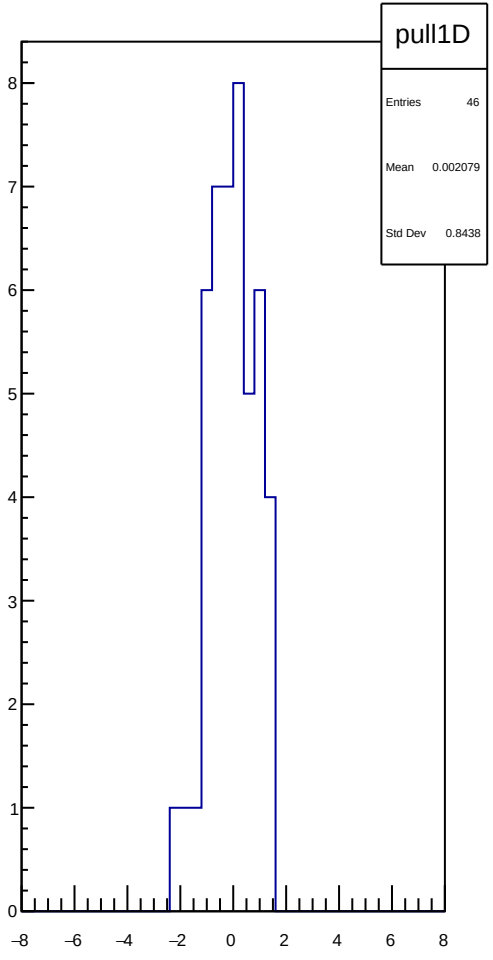

diff_bpm11X_rms vs run
χ² / ndf 1223 / 45
p0 5279 ± 5.5
5600
5400
5200
5000
4800
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

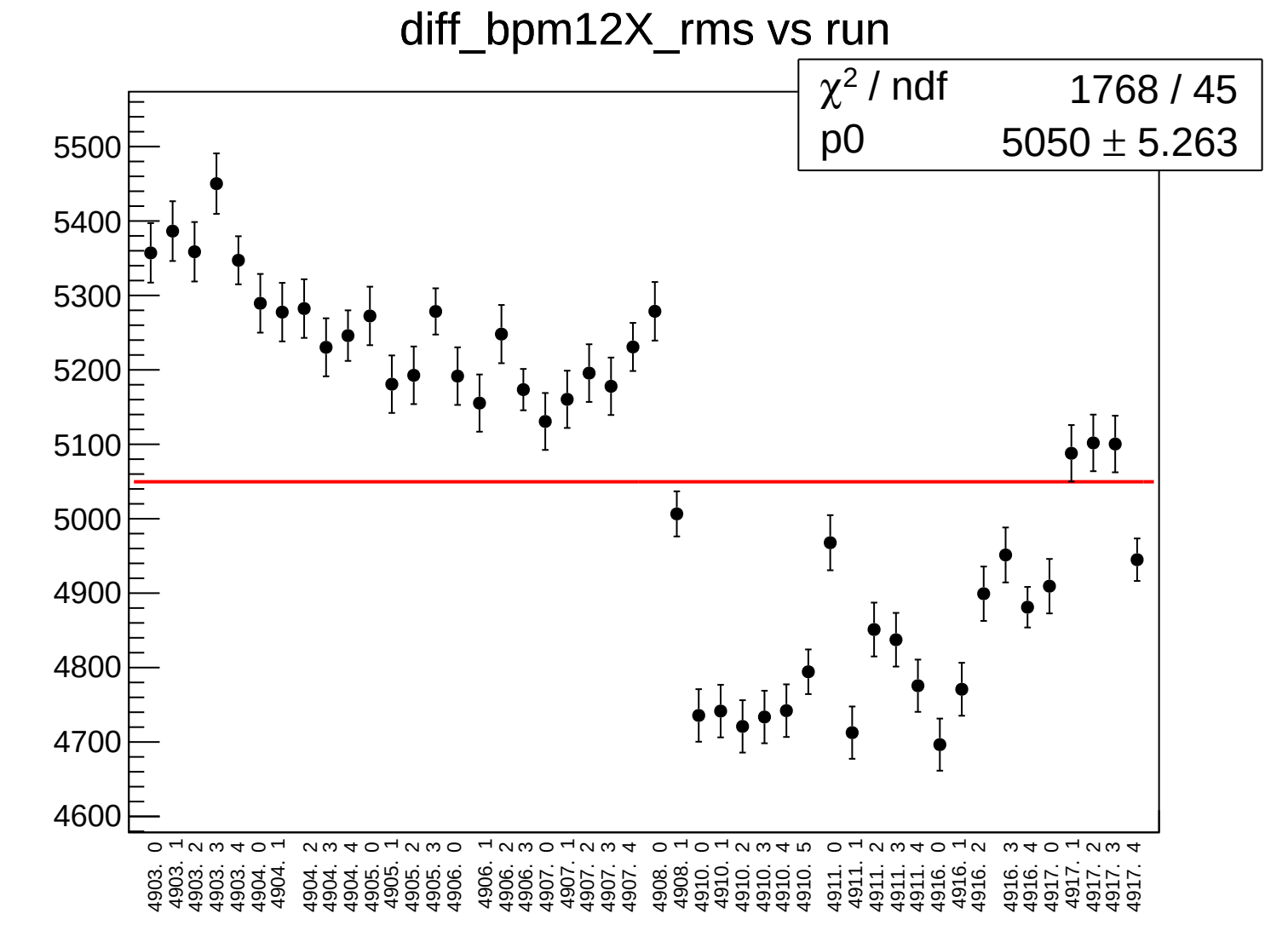

diff_bpm11Y_mean vs run
χ² / ndf 40.15 / 45
p0 2.404 ± 1.638
pull
Entries 46
Mean −62.03
Std Dev 100.4

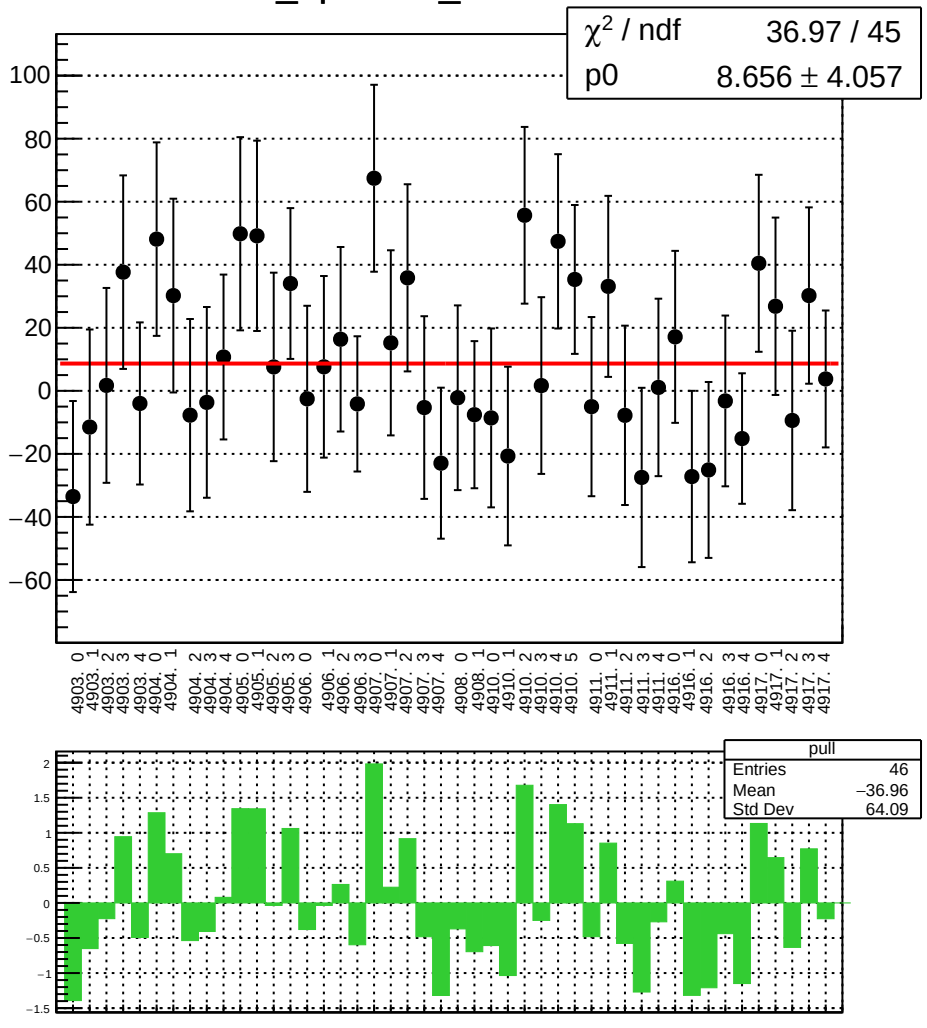

pull1D
Entries 46
Mean −0.006077
Std Dev 0.9342

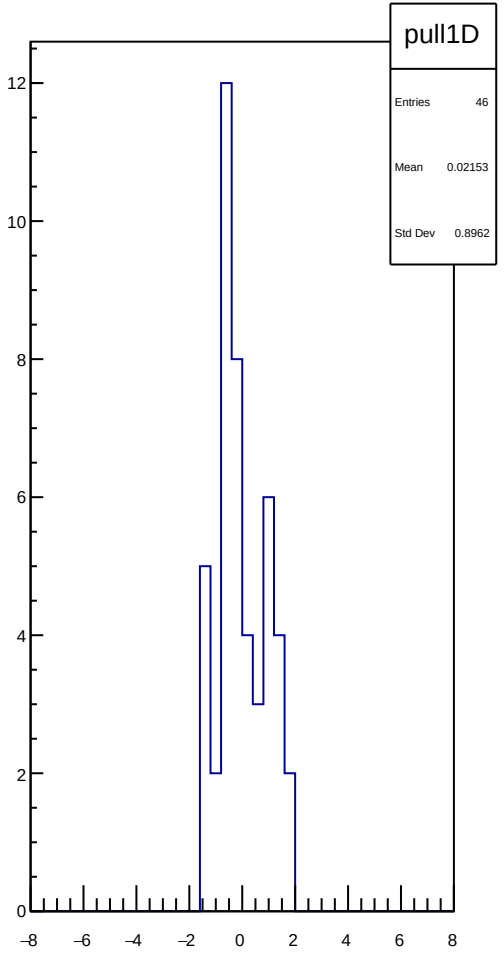

diff_bpm11Y_rms vs run
χ² / ndf 868 / 45
p0 1112 ± 1.159
1180
1160
1140
1120
1100
1080
1060
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

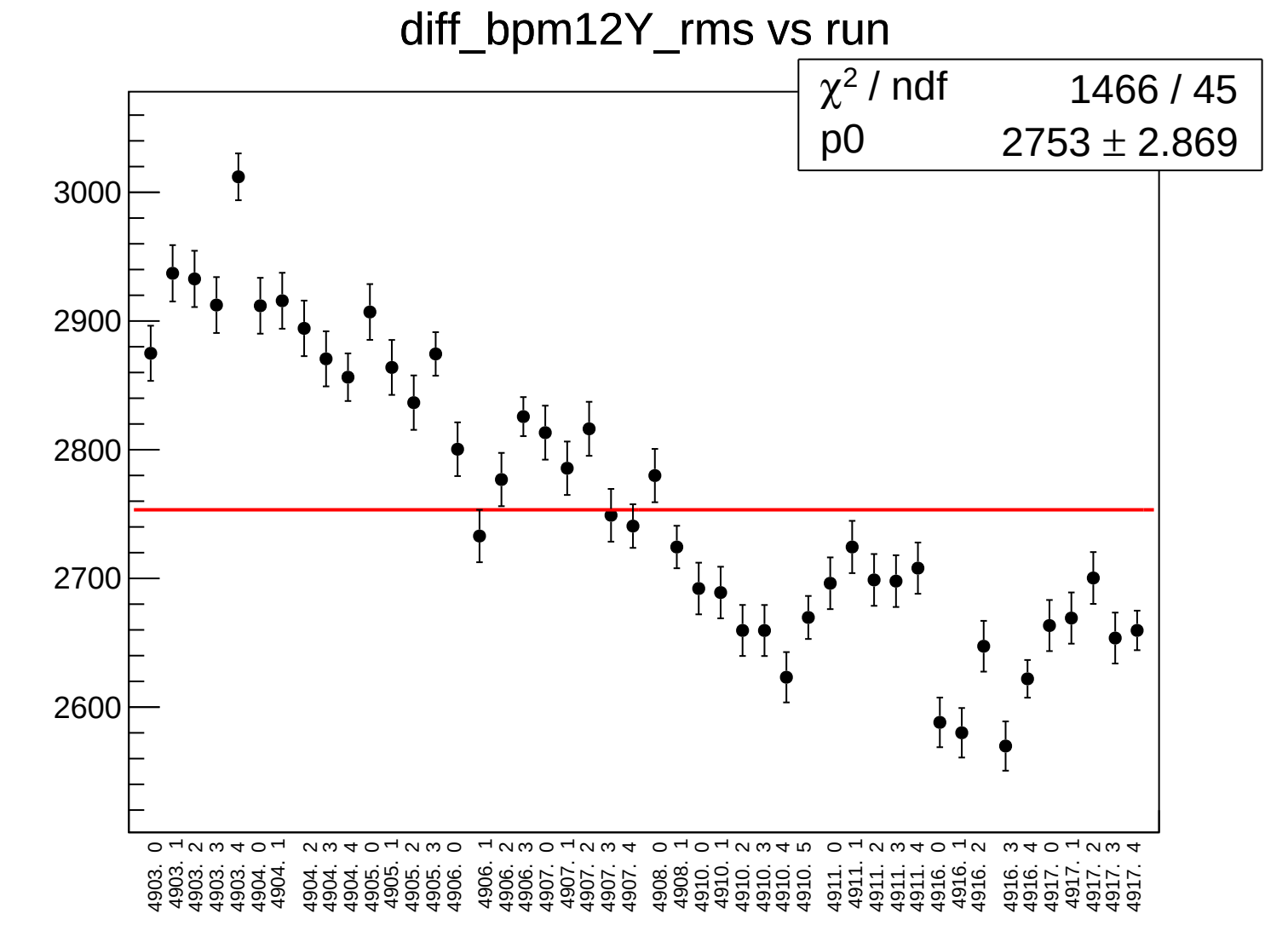

diff_bpm12X_mean vs run
χ² / ndf 32.75 / 45
p0 −0.2439 ± 7.443
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 846.7
Std Dev 816.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

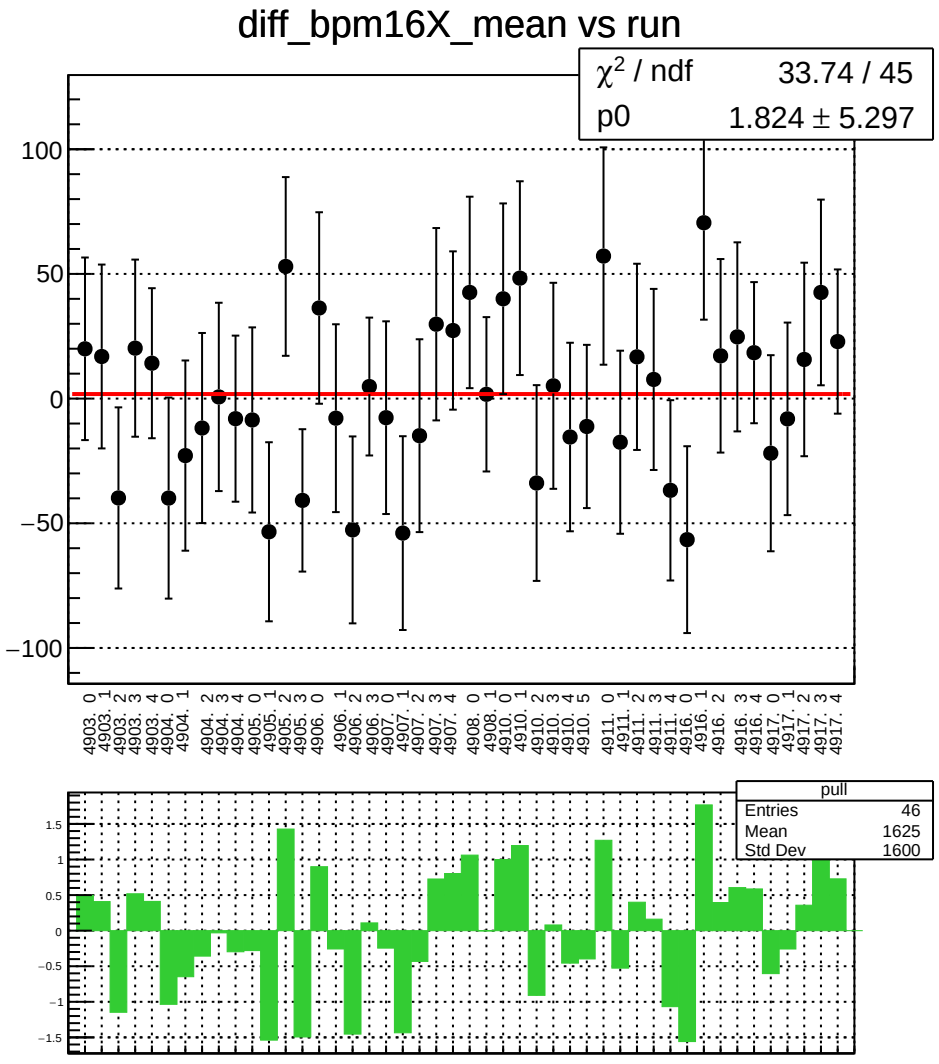

pull1D
Entries 46
Mean 0.002079
Std Dev 0.8438
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

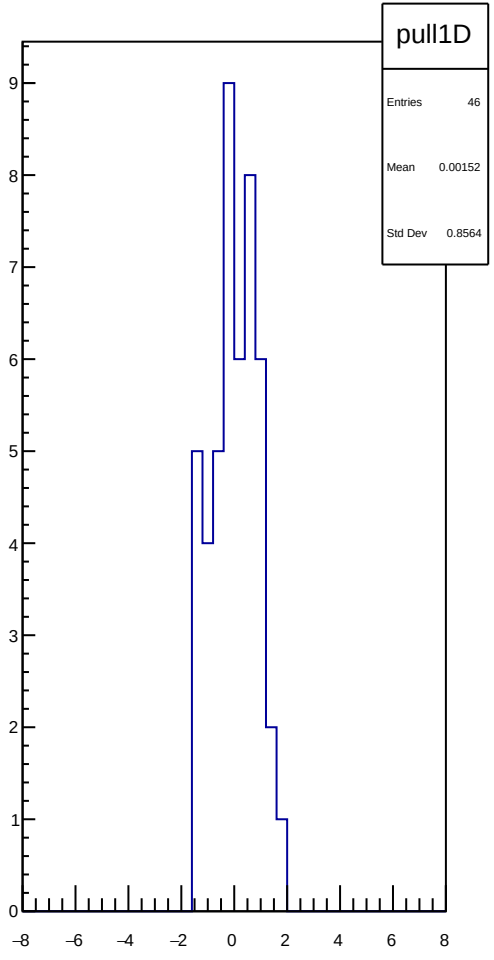

diff_bpm12X_rms vs run
χ^2 / ndf 1768 / 45
p0 5050 ± 5.263
5500
5400
5300
5200
5100
5000
4900
4800
4700
4600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

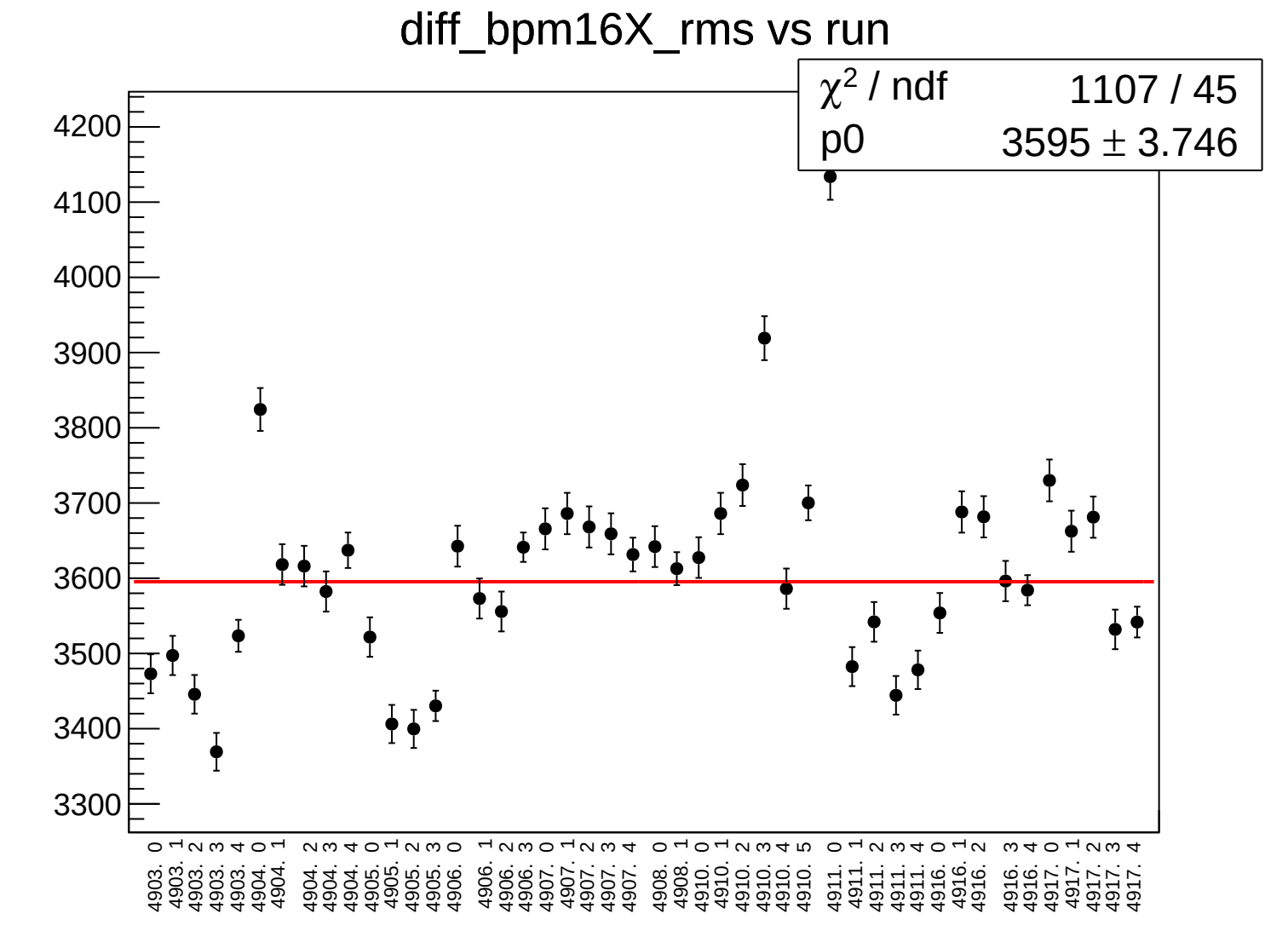

diff_bpm12Y_mean vs run
χ^2 / ndf 36.97 / 45
p0 8.656 ± 4.057
pull
Entries 46
Mean −36.96
Std Dev 64.09

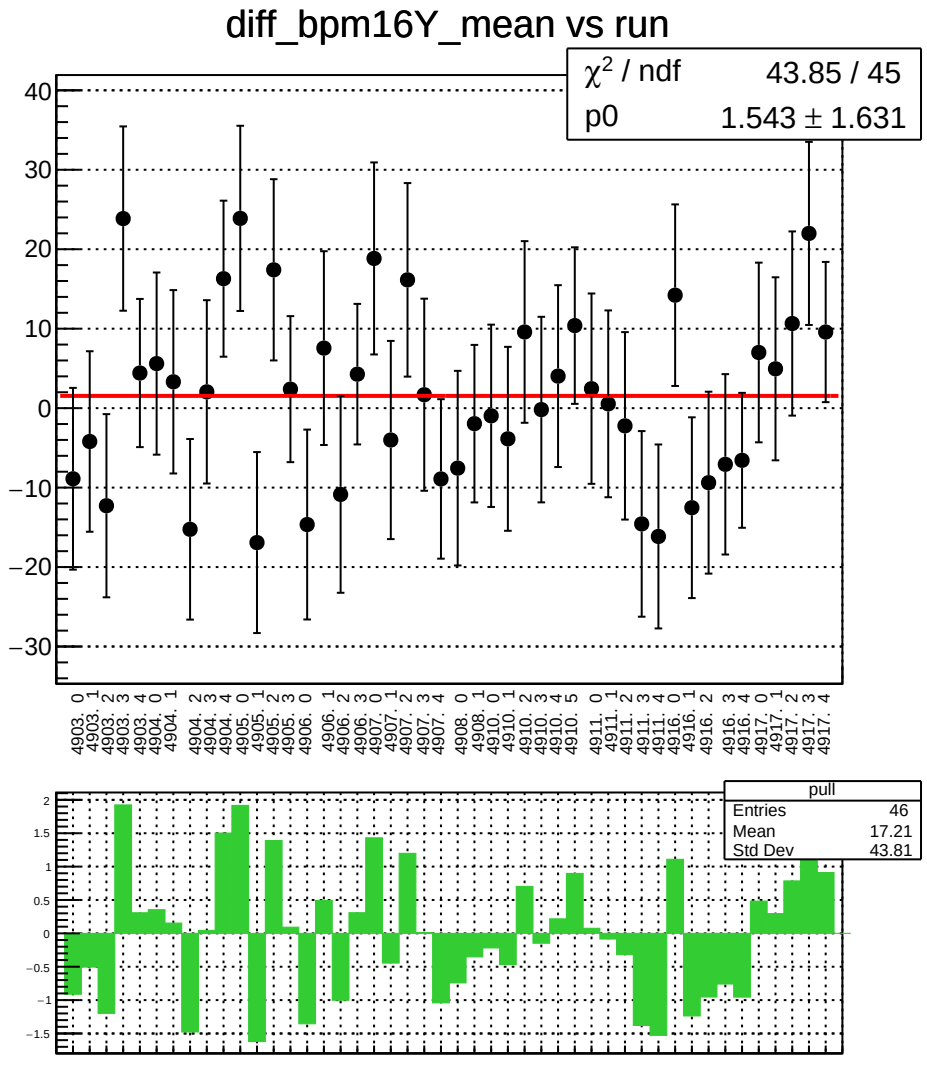

pull1D
Entries 46
Mean 0.02153
Std Dev 0.8962

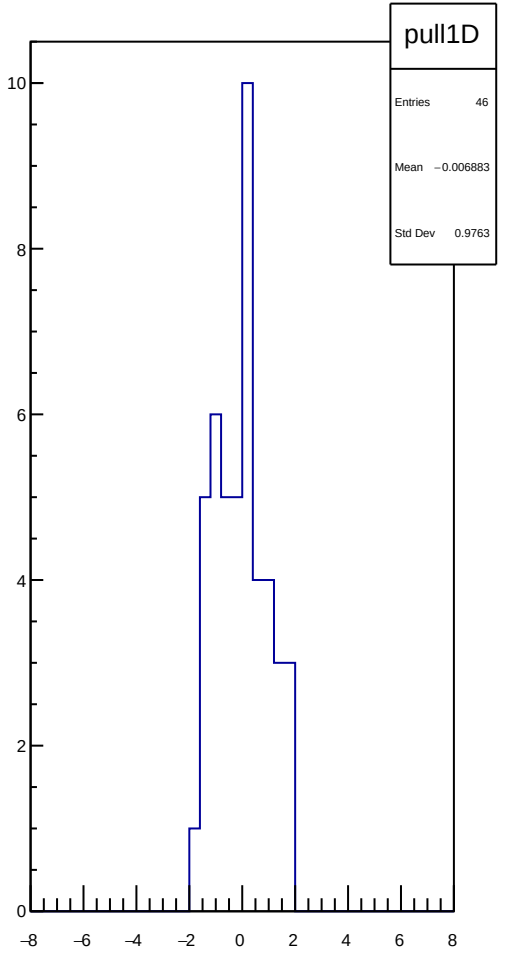

diff_bpm12Y_rms vs run
χ² / ndf 1466 / 45
p0 2753 ± 2.869
3000
2900
2800
2700
2600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

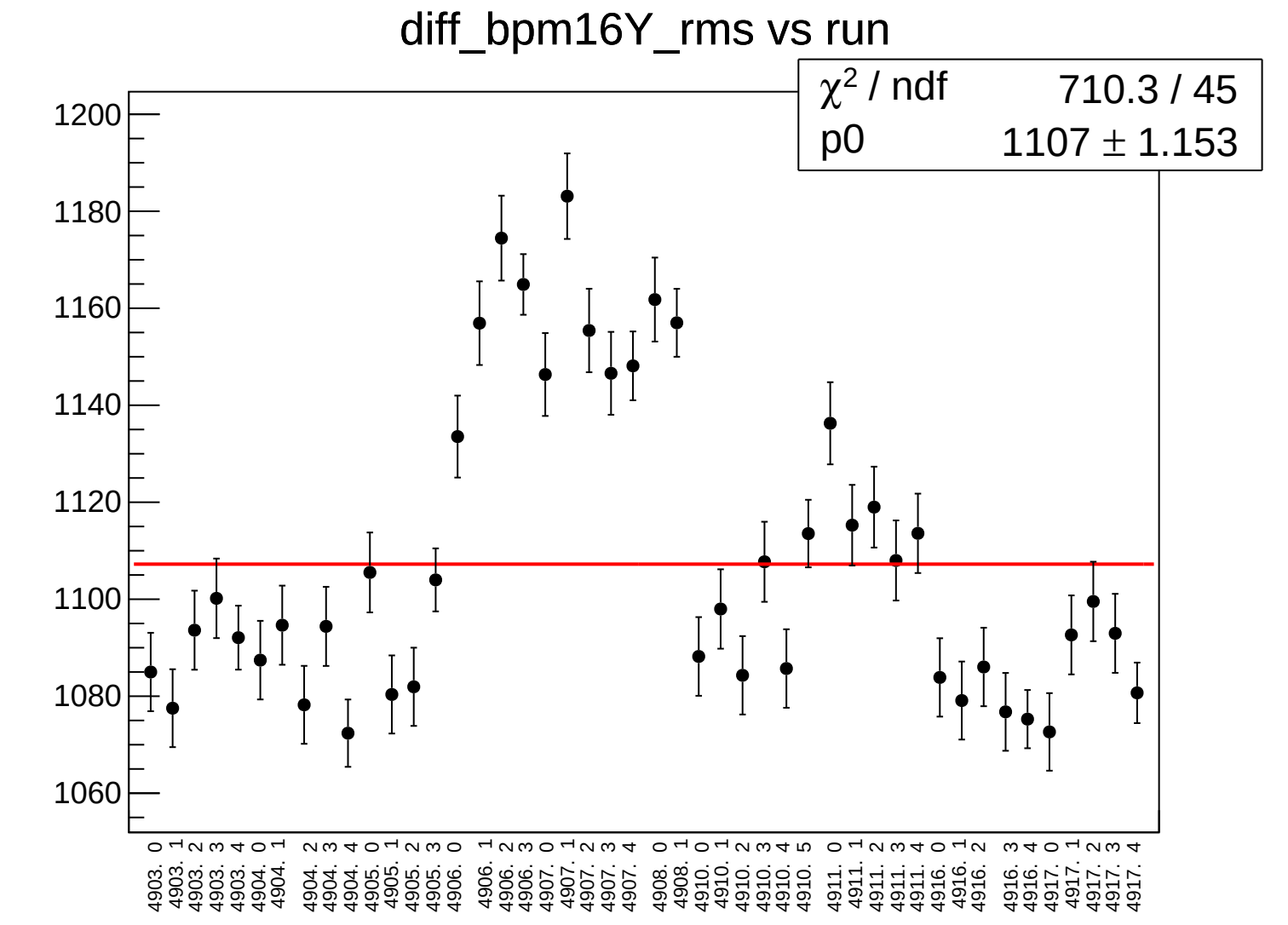

diff_bpm16X_mean vs run
χ² / ndf 33.74 / 45
p0 1.824 ± 5.297
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 1625
Std Dev 1600
1.5
1
0.5
0
−0.5
−1
−1.5

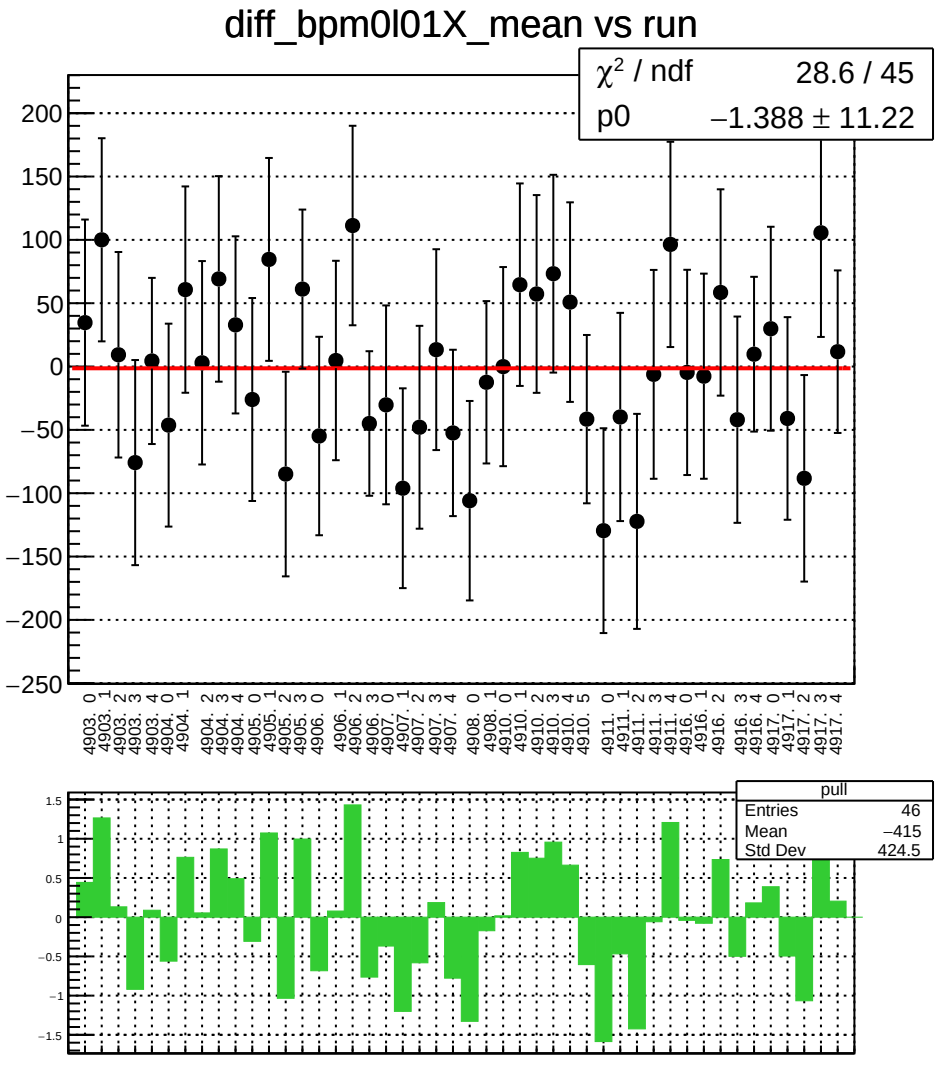

pull1D
Entries 46
Mean 0.00152
Std Dev 0.8564
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

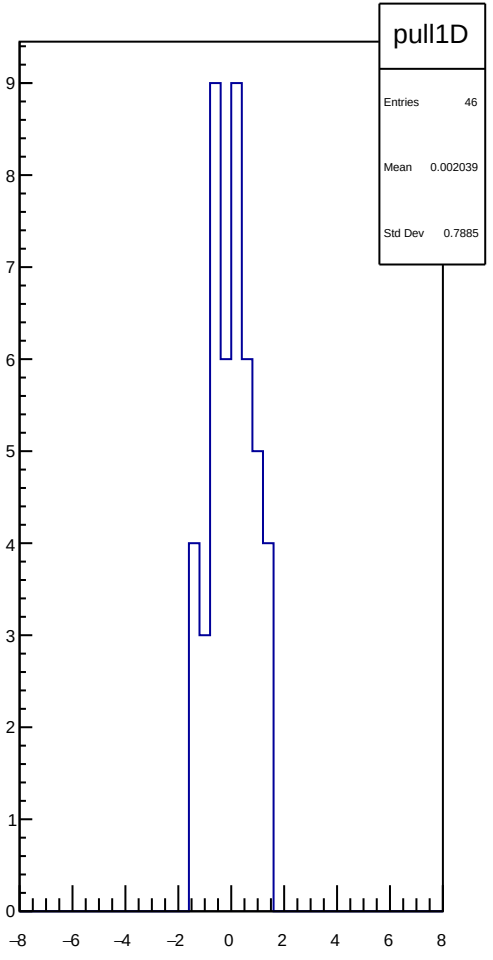

diff_bpm16X_rms vs run
χ^2 / ndf 1107 / 45
p0 3595 ± 3.746
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

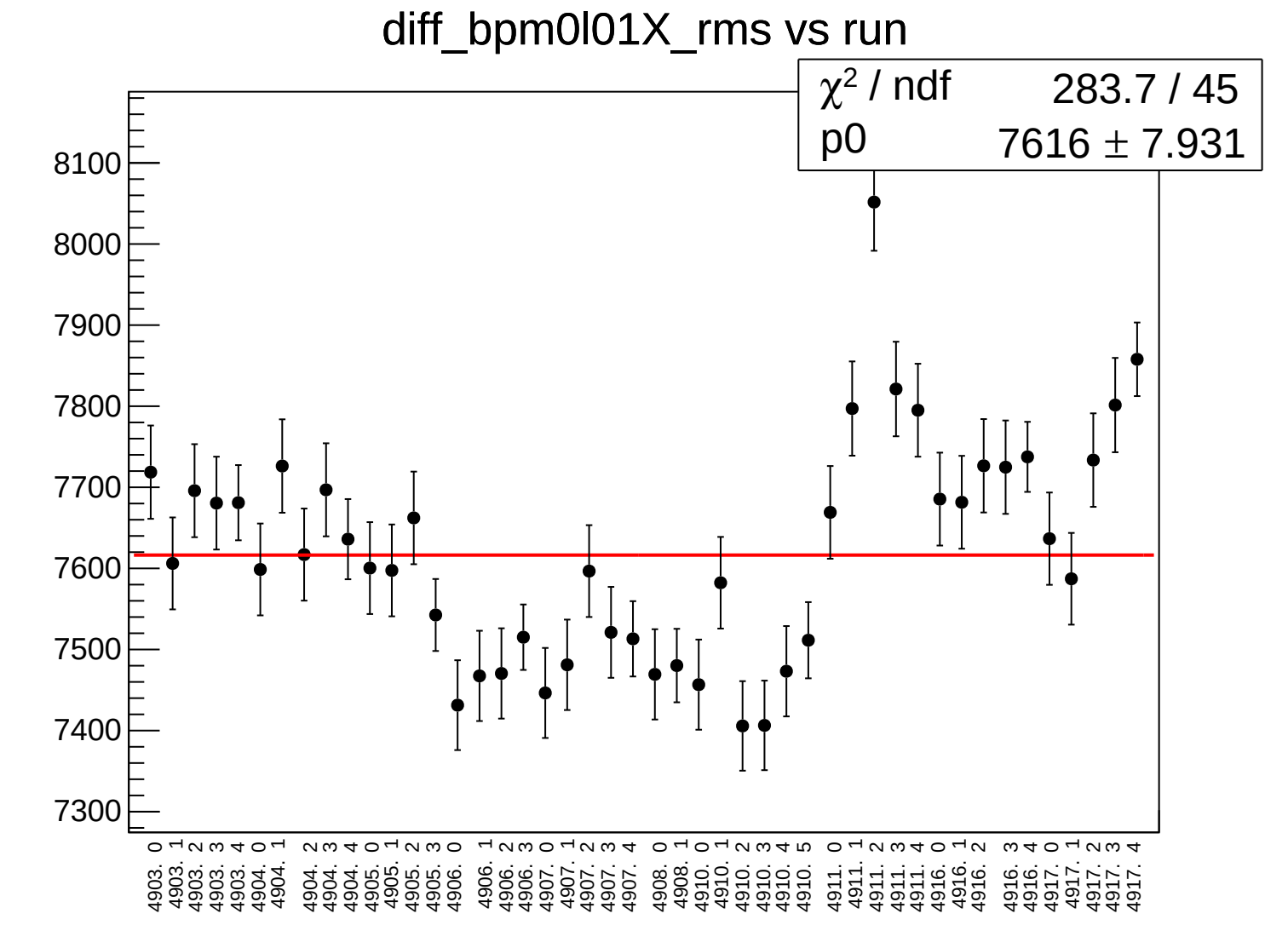

diff_bpm16Y_mean vs run
χ² / ndf 43.85 / 45
p0 1.543 ± 1.631
pull
Entries 46
Mean 17.21
Std Dev 43.81

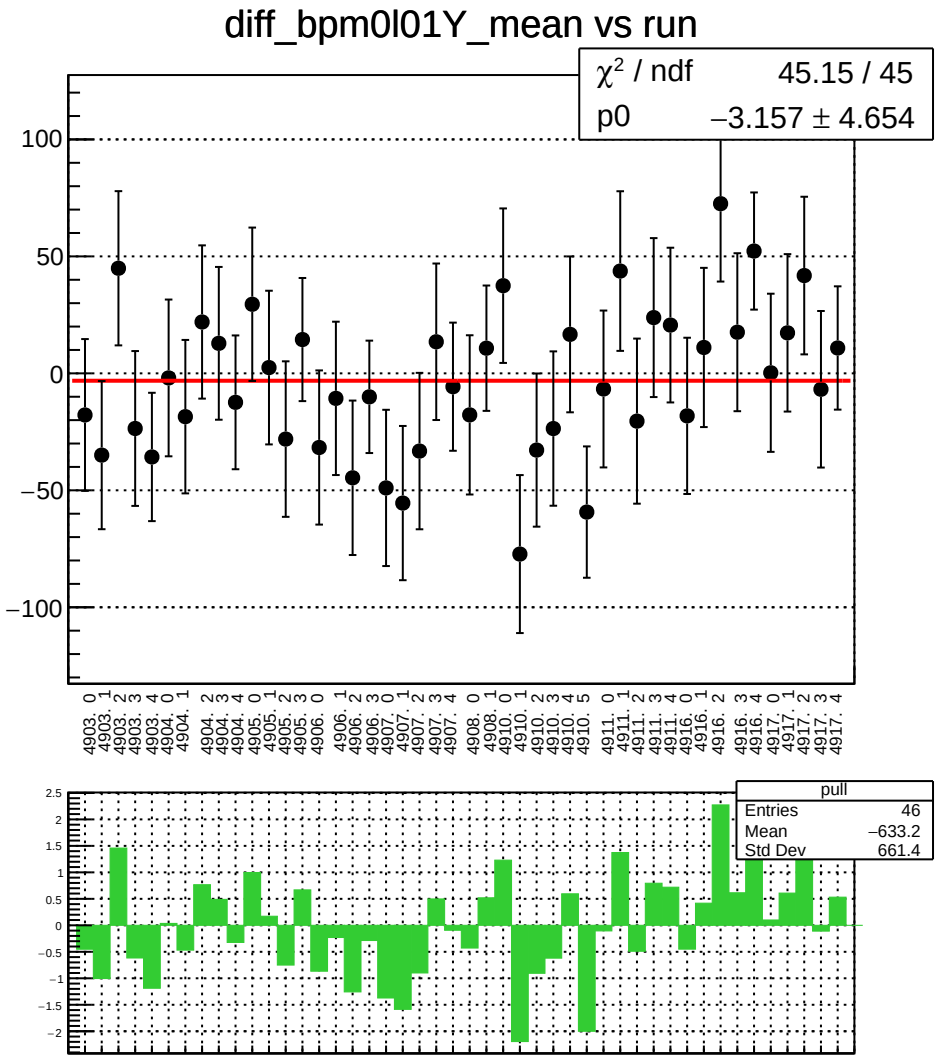

pull1D
Entries 46
Mean −0.006883
Std Dev 0.9763

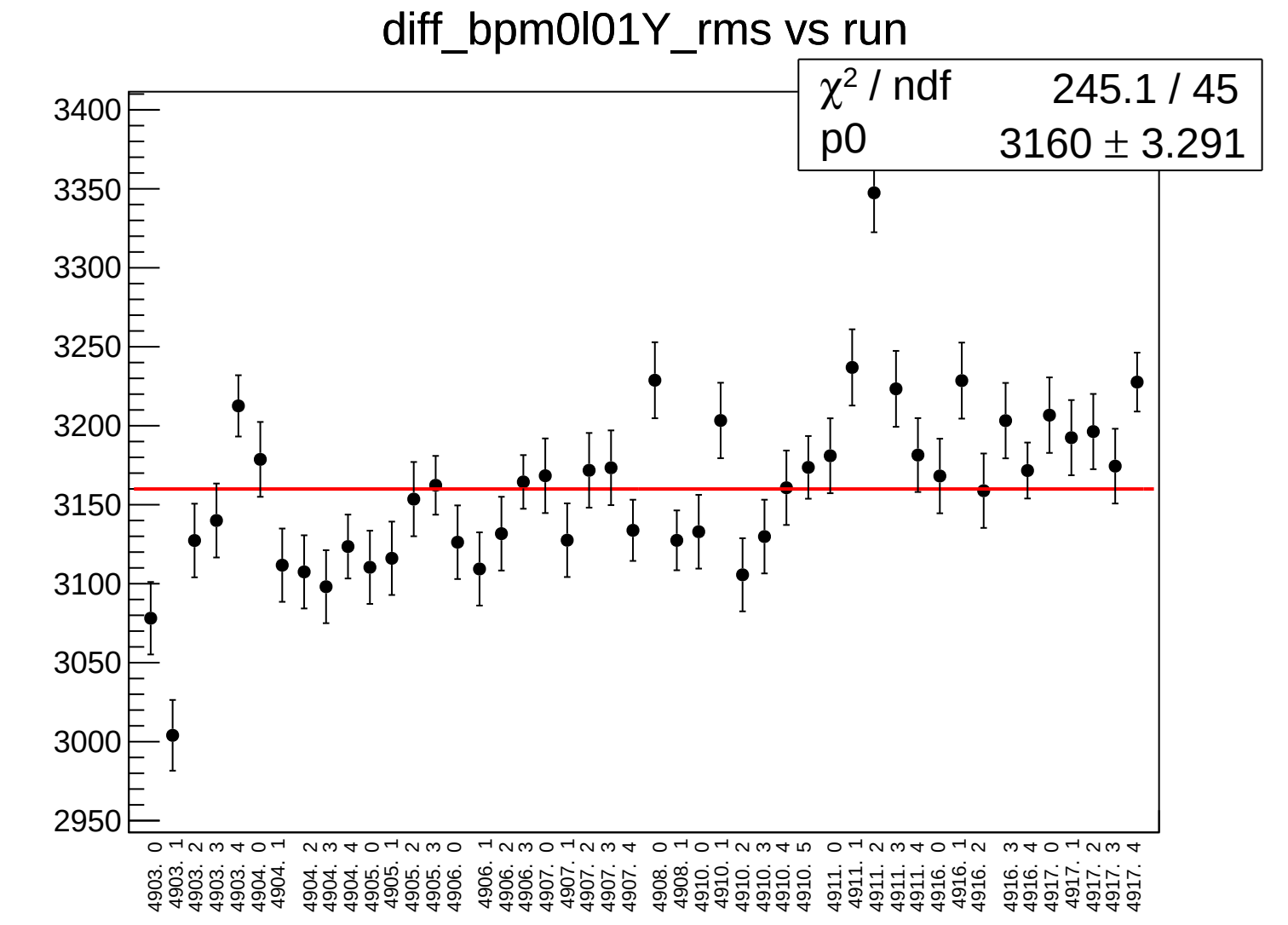

diff_bpm16Y_rms vs run
χ² / ndf 710.3 / 45
p0 1107 ± 1.153
1200
1180
1160
1140
1120
1100
1080
1060
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

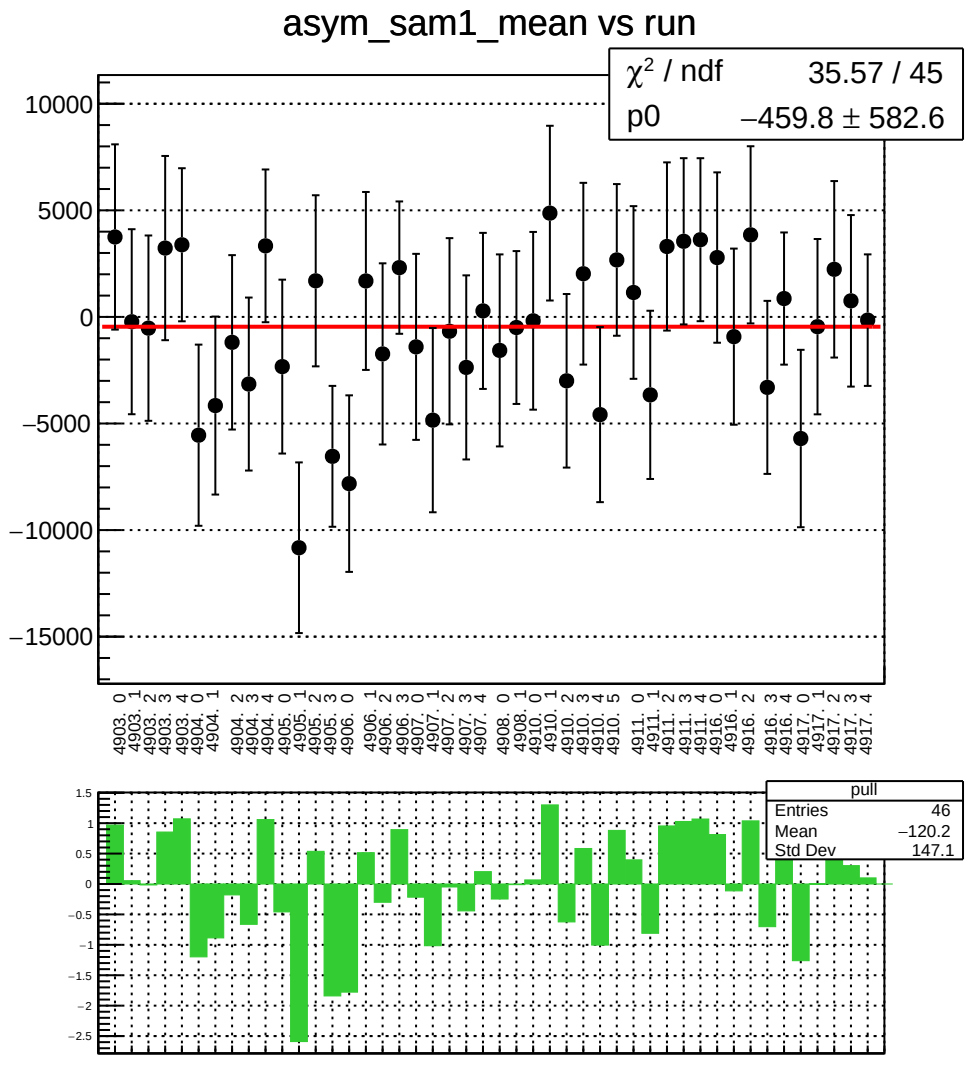

diff_bpm0l01X_mean vs run
χ² / ndf 28.6 / 45
p0 −1.388 ± 11.22
pull
Entries 46
Mean −415
Std Dev 424.5

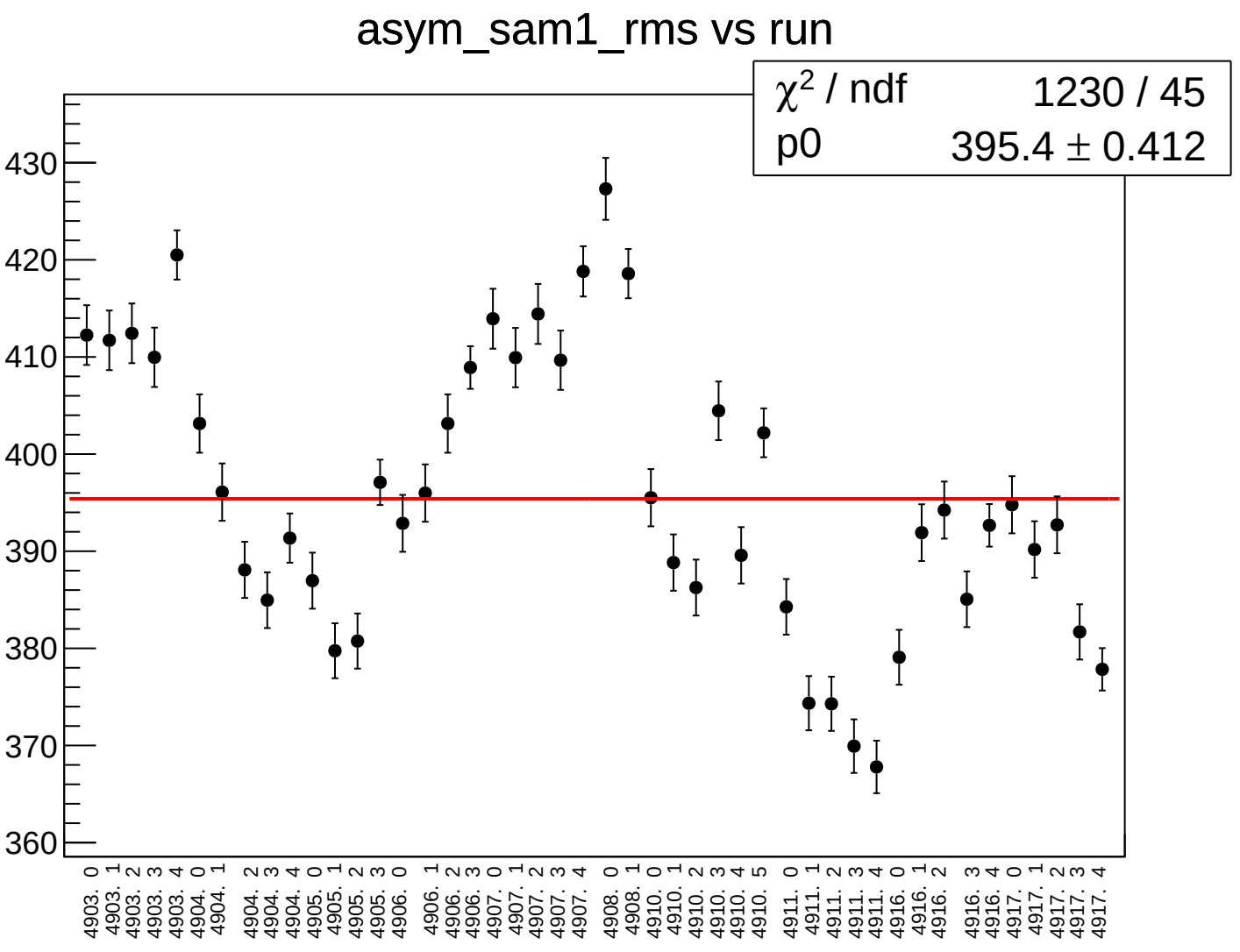

pull1D
Entries 46
Mean 0.002039
Std Dev 0.7885

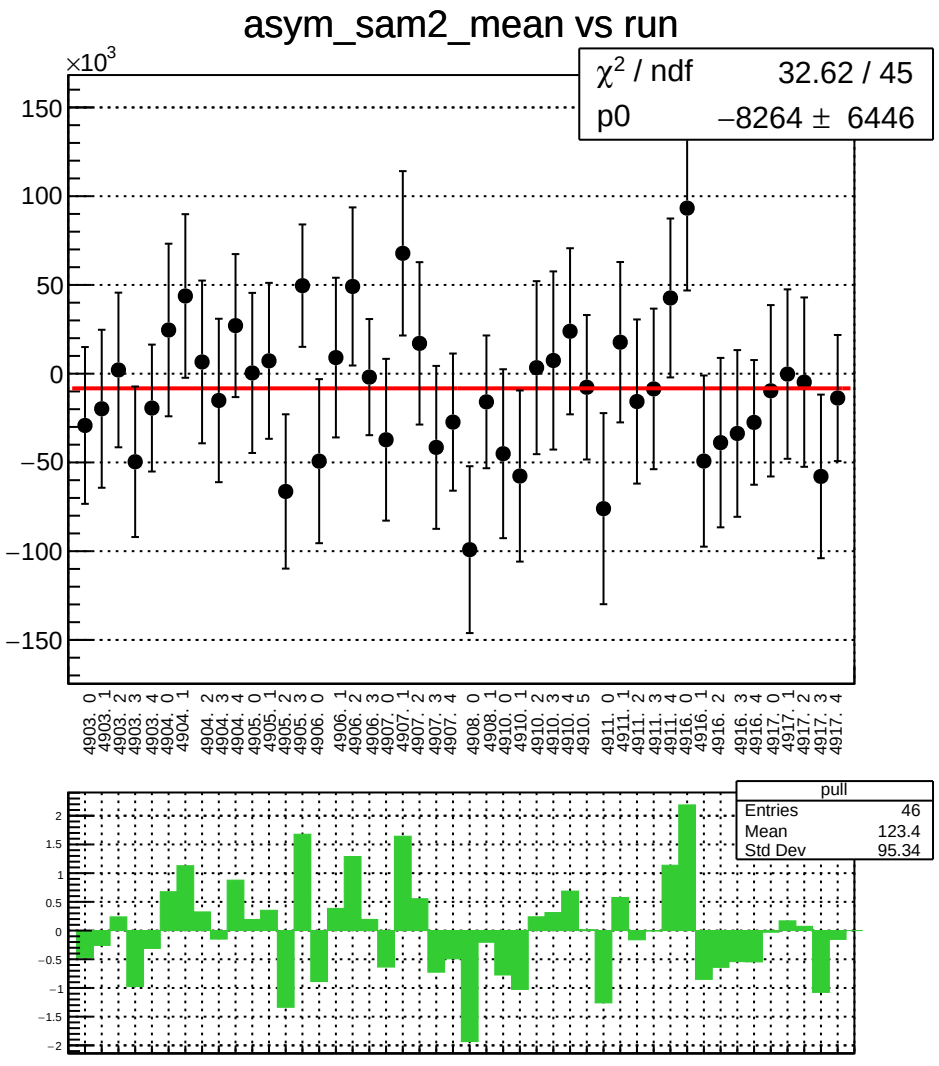

diff_bpm0l01X_rms vs run
χ² / ndf 283.7 / 45
p0 7616 ± 7.931
8100
8000
7900
7800
7700
7600
7500
7400
7300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

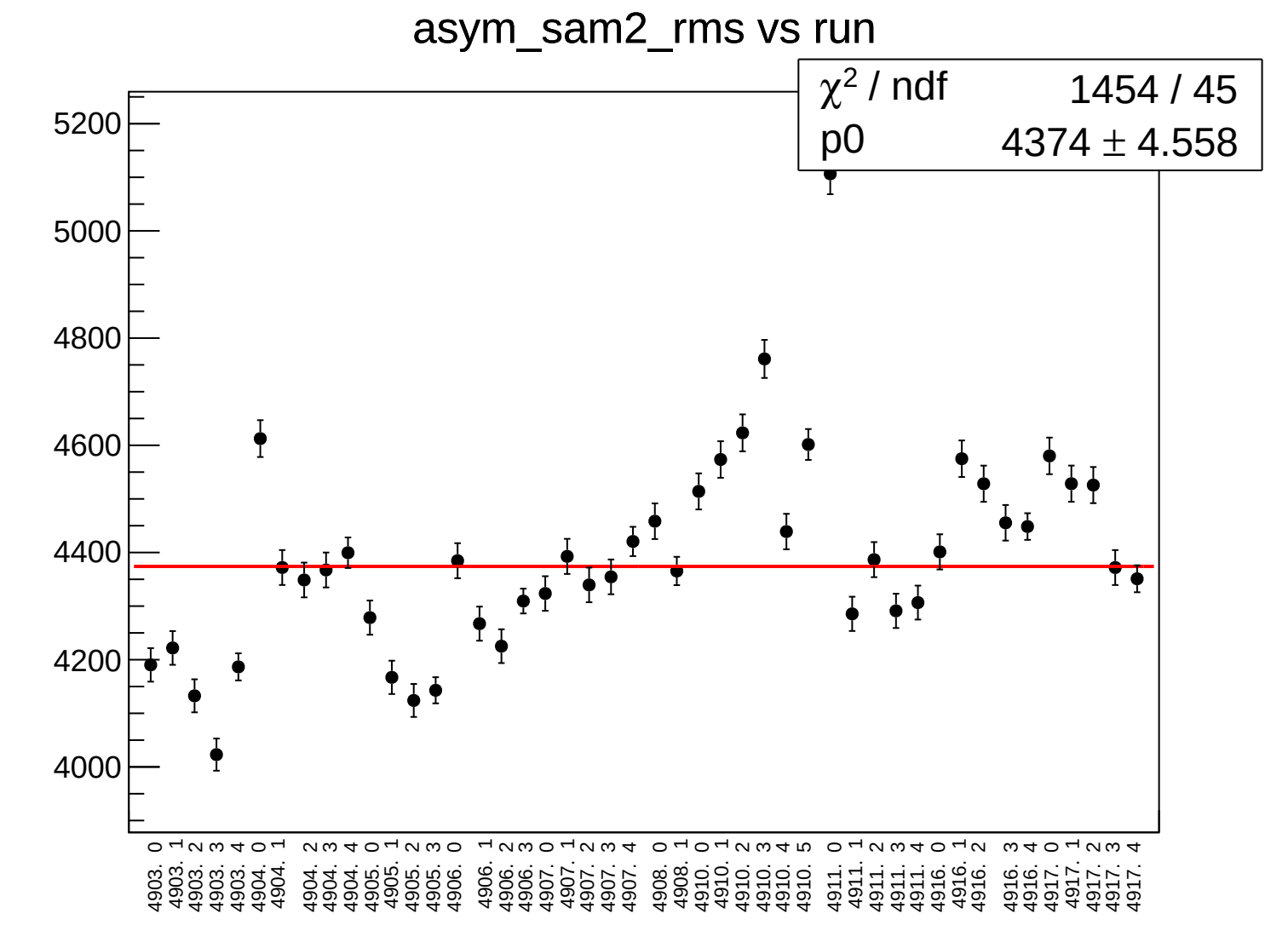

diff_bpm0l01Y_mean vs run
χ² / ndf 45.15 / 45
p0 −3.157 ± 4.654
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −633.2
Std Dev 661.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.006122
Std Dev 0.9907
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

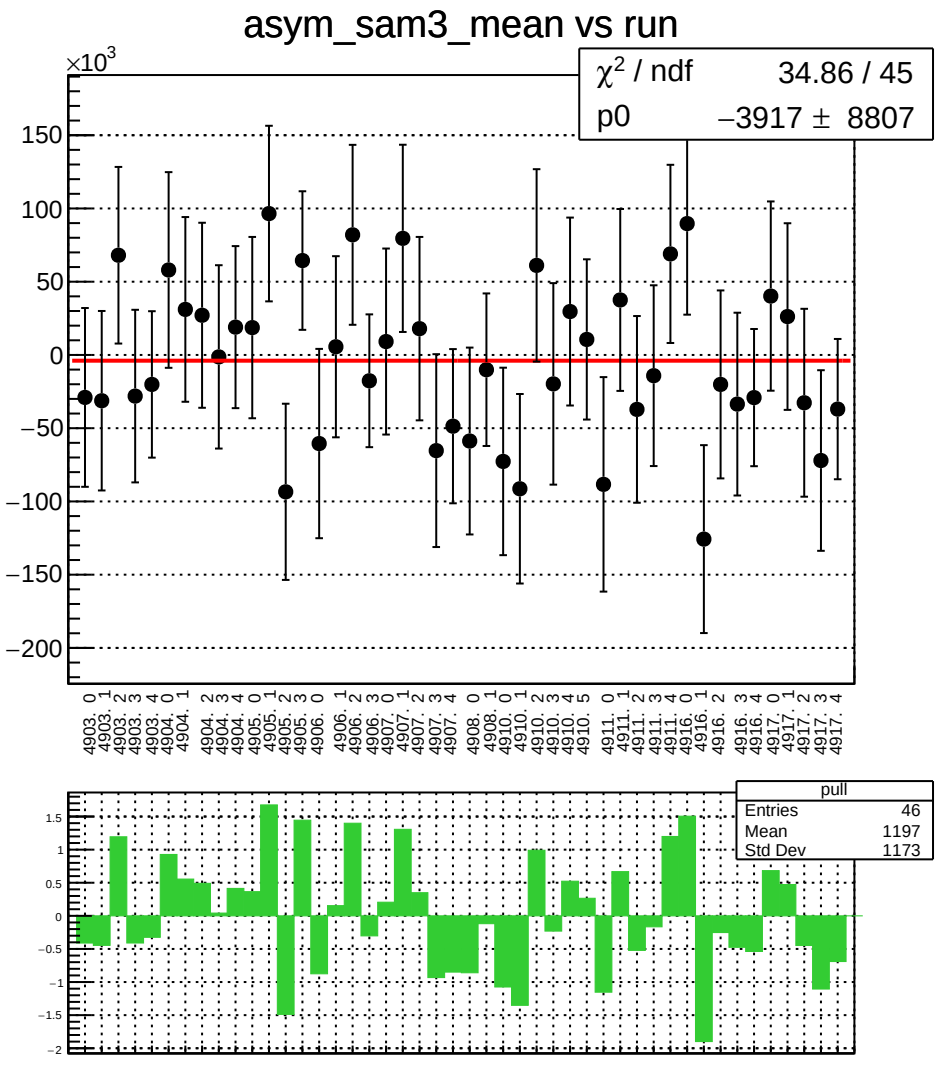

diff_bpm0l01Y_rms vs run
χ² / ndf 245.1 / 45
p0 3160 ± 3.291
3400
3350
3300
3250
3200
3150
3100
3050
3000
2950
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

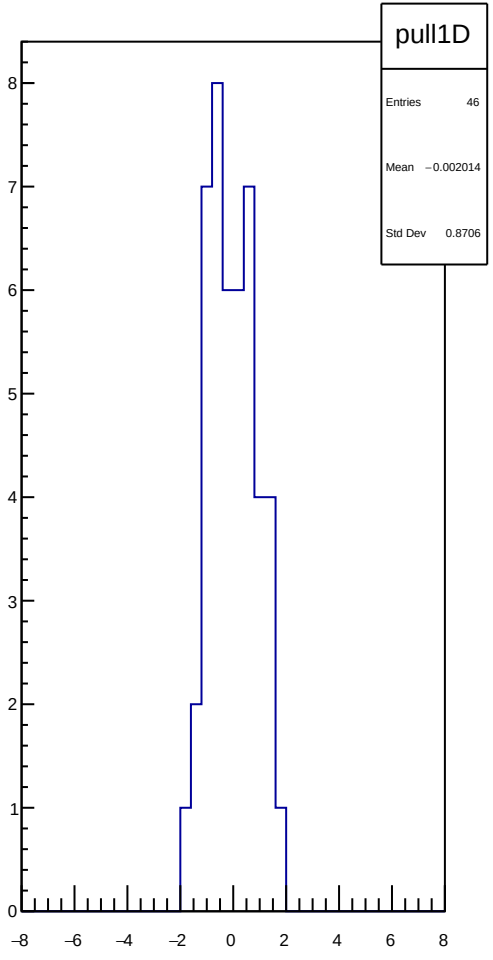

asym_sam1_mean vs run
χ² / ndf 35.57 / 45
p0 −459.8 ± 582.6
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −120.2
Std Dev 147.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.01388
Std Dev 0.8793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

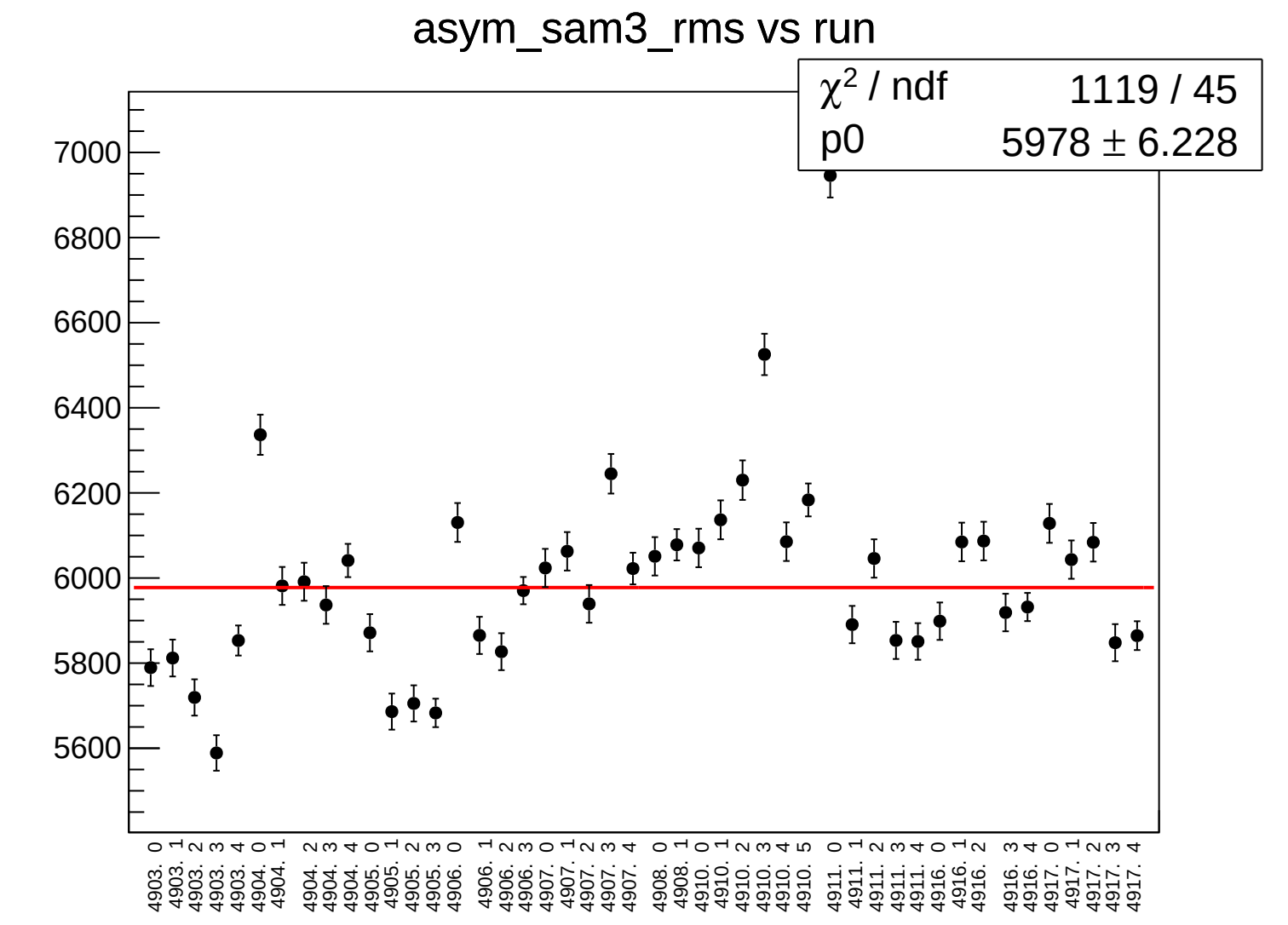

asym_sam1_rms vs run
χ² / ndf 1230 / 45
p0 395.4 ± 0.412
430
420
410
400
390
380
370
360
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

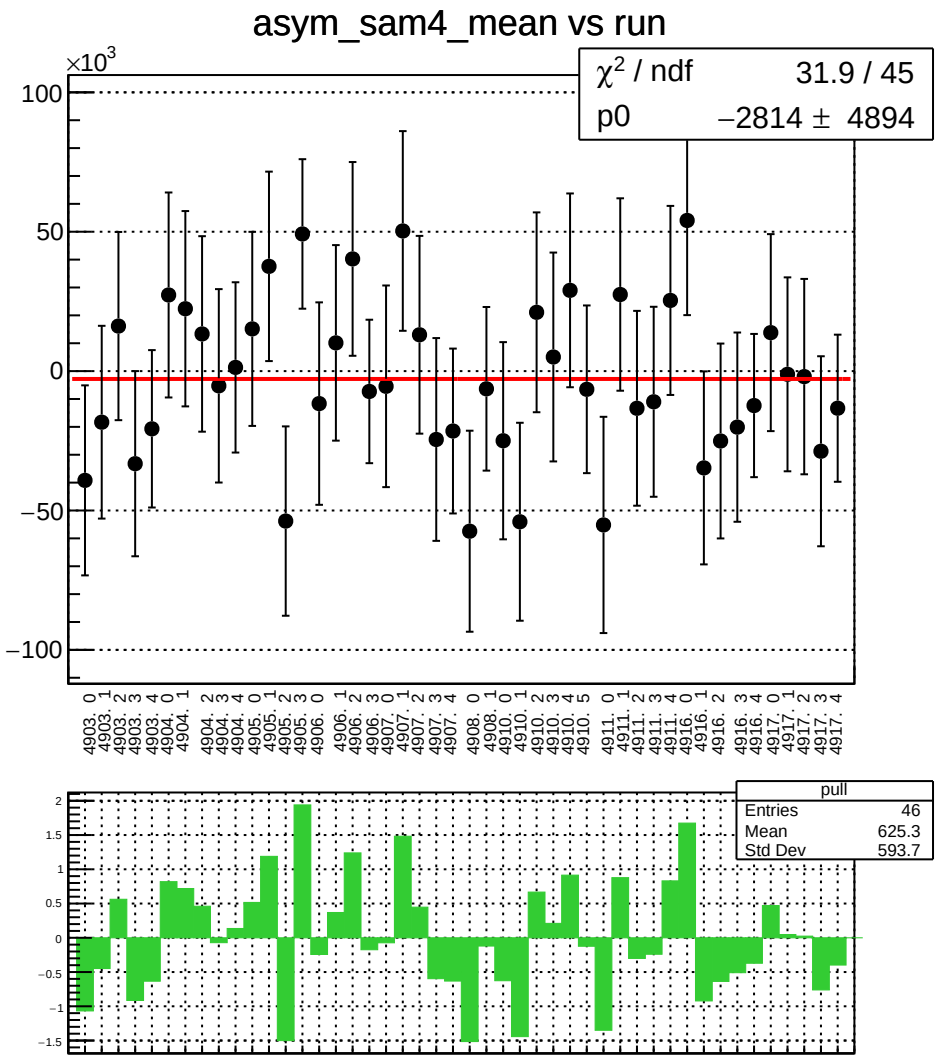

asym_sam2_mean vs run
×10^3
χ² / ndf 32.62 / 45
p0 −8264 ± 6446
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 123.4
Std Dev 95.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01103
Std Dev 0.8421
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

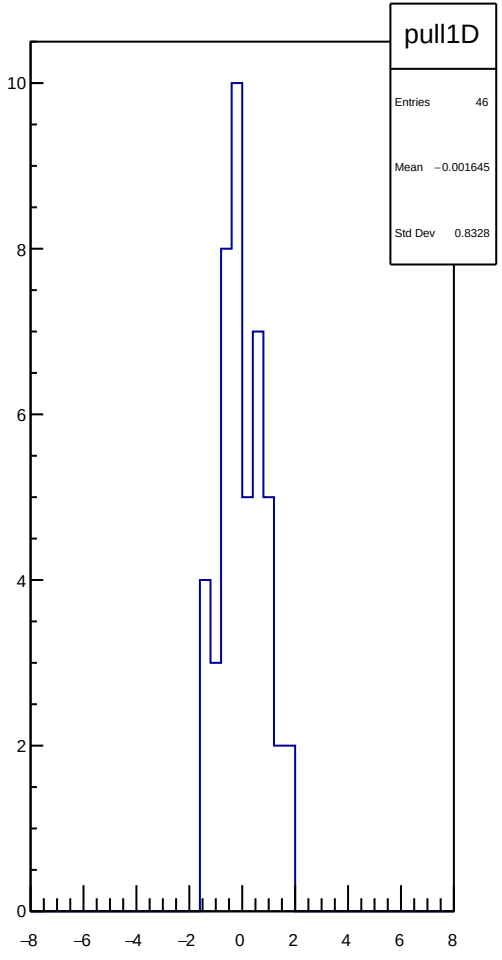

asym_sam2_rms vs run
χ² / ndf 1454 / 45
p0 4374 ± 4.558
5200
5000
4800
4600
4400
4200
4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

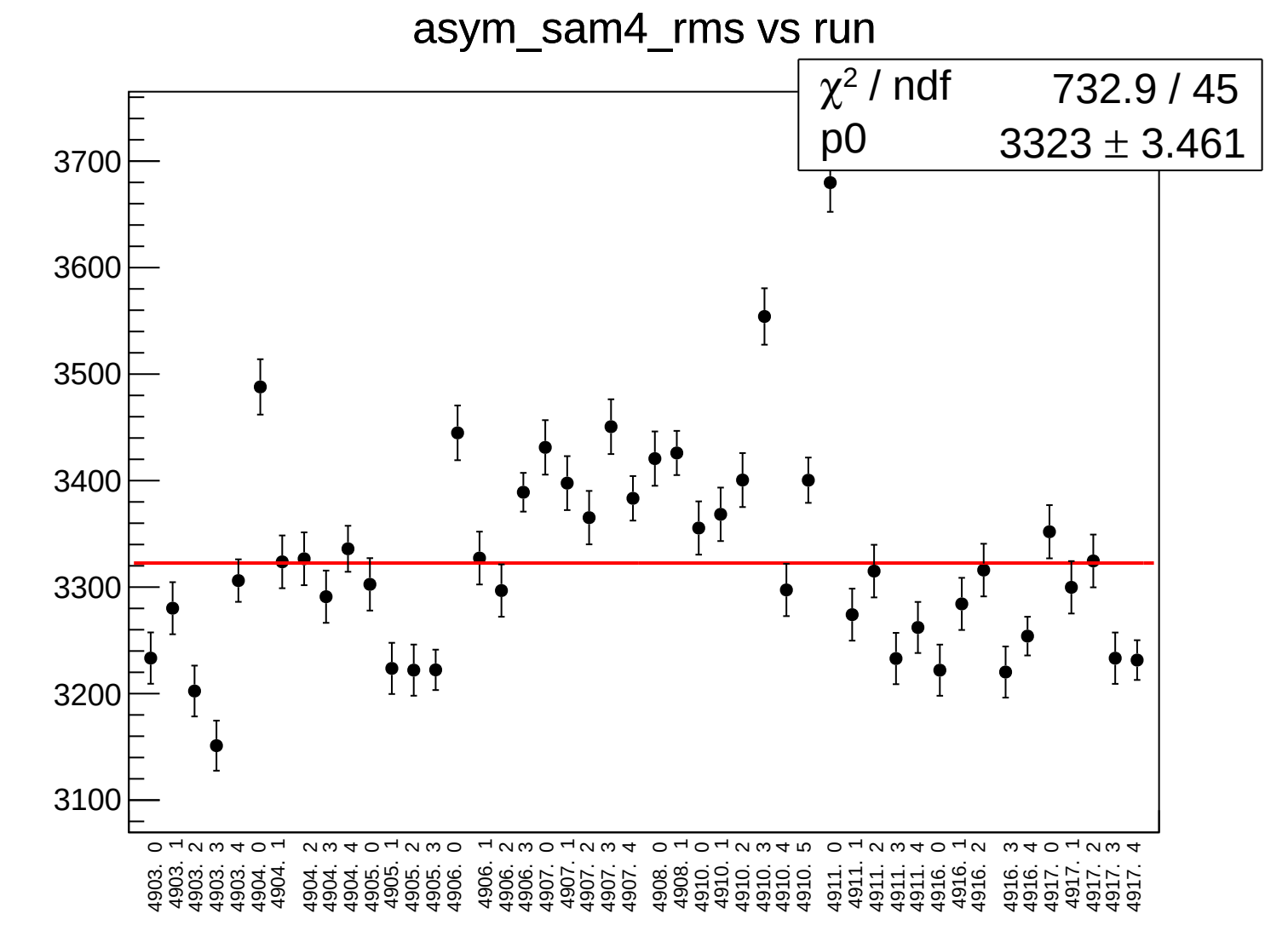

asym_sam3_mean vs run
×10^3
χ² / ndf 34.86 / 45
p0 −3917 ± 8807
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 1197
Std Dev 1173
1.5
1
0.5
0
−0.5
−1
−1.5
−2

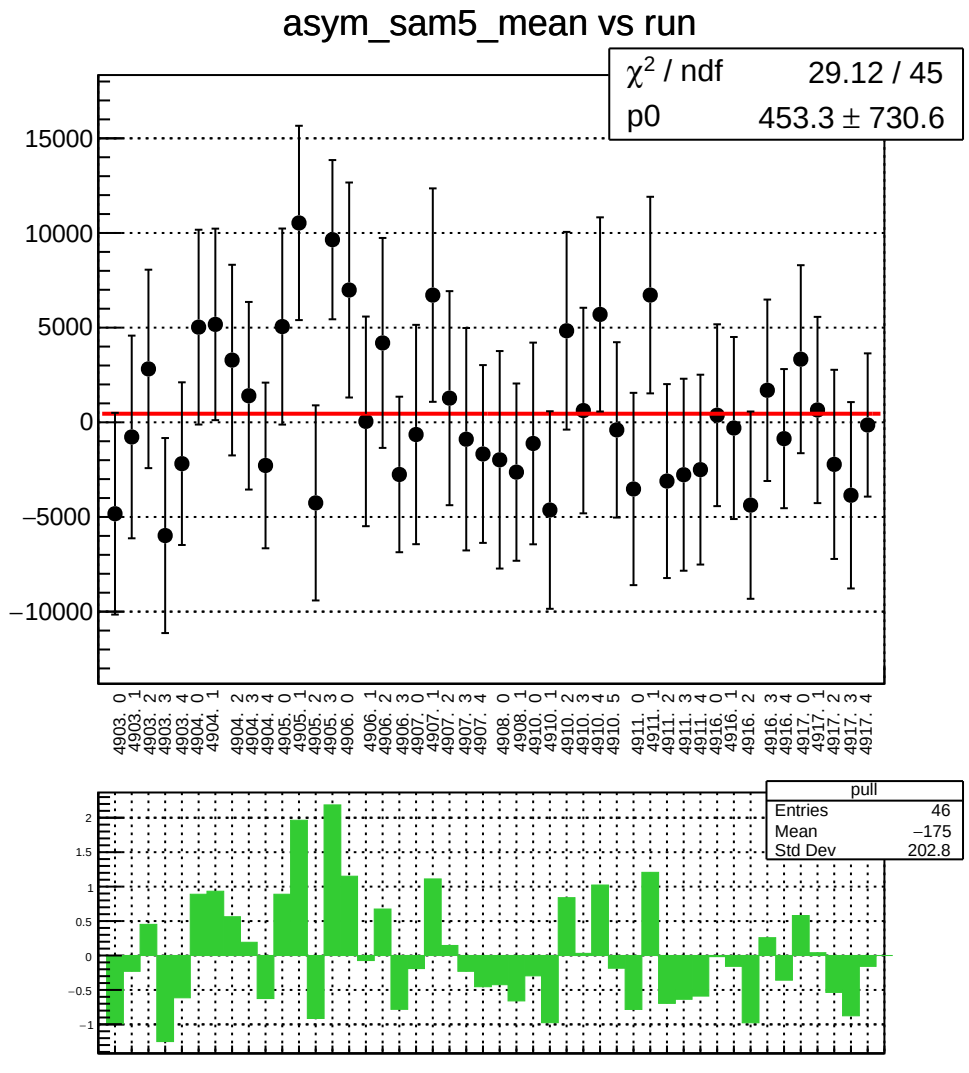

pull1D
Entries 46
Mean −0.002014
Std Dev 0.8706
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

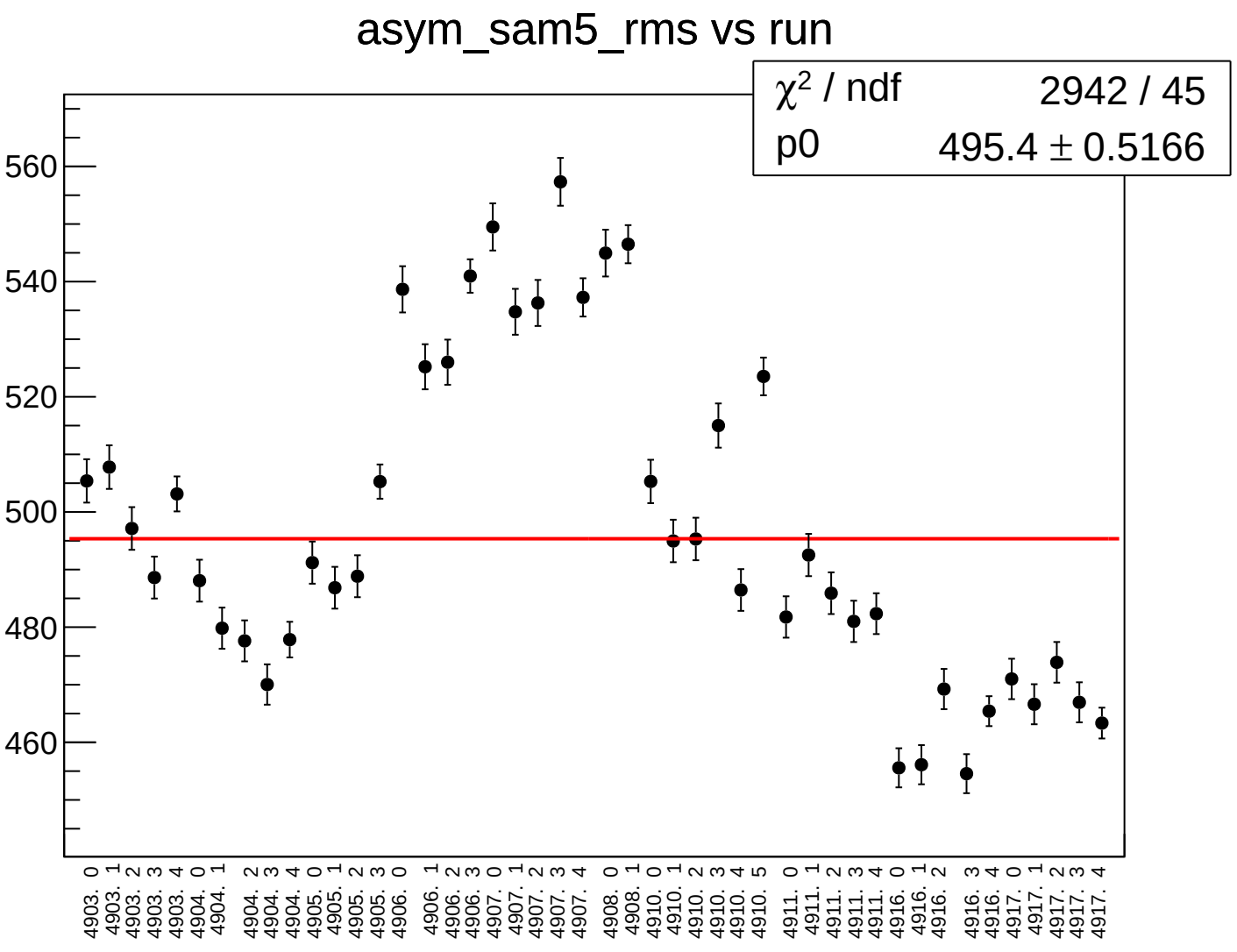

asym_sam3_rms vs run
χ² / ndf 1119 / 45
p0 5978 ± 6.228
7000
6800
6600
6400
6200
6000
5800
5600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

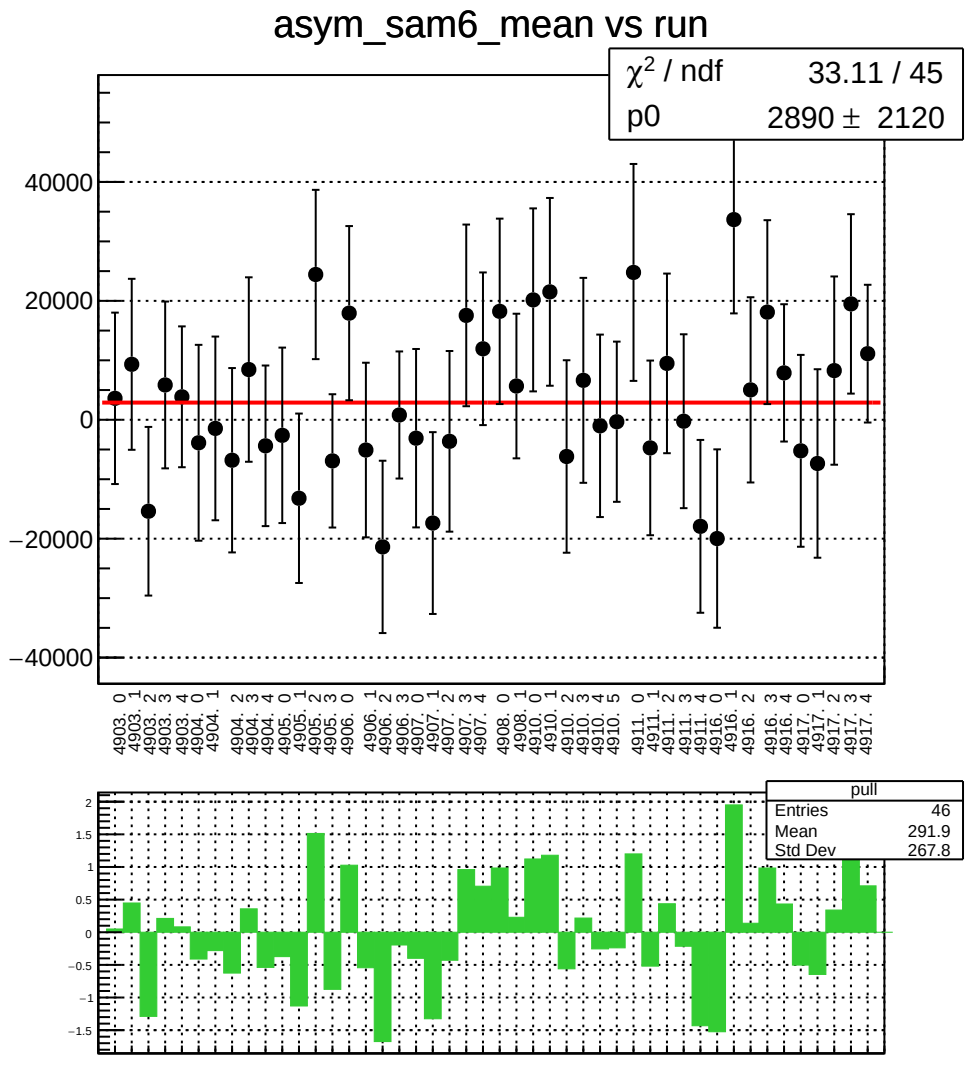

asym_sam4_mean vs run
×10^3
χ² / ndf 31.9 / 45
p0 −2814 ± 4894
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 625.3
Std Dev 593.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

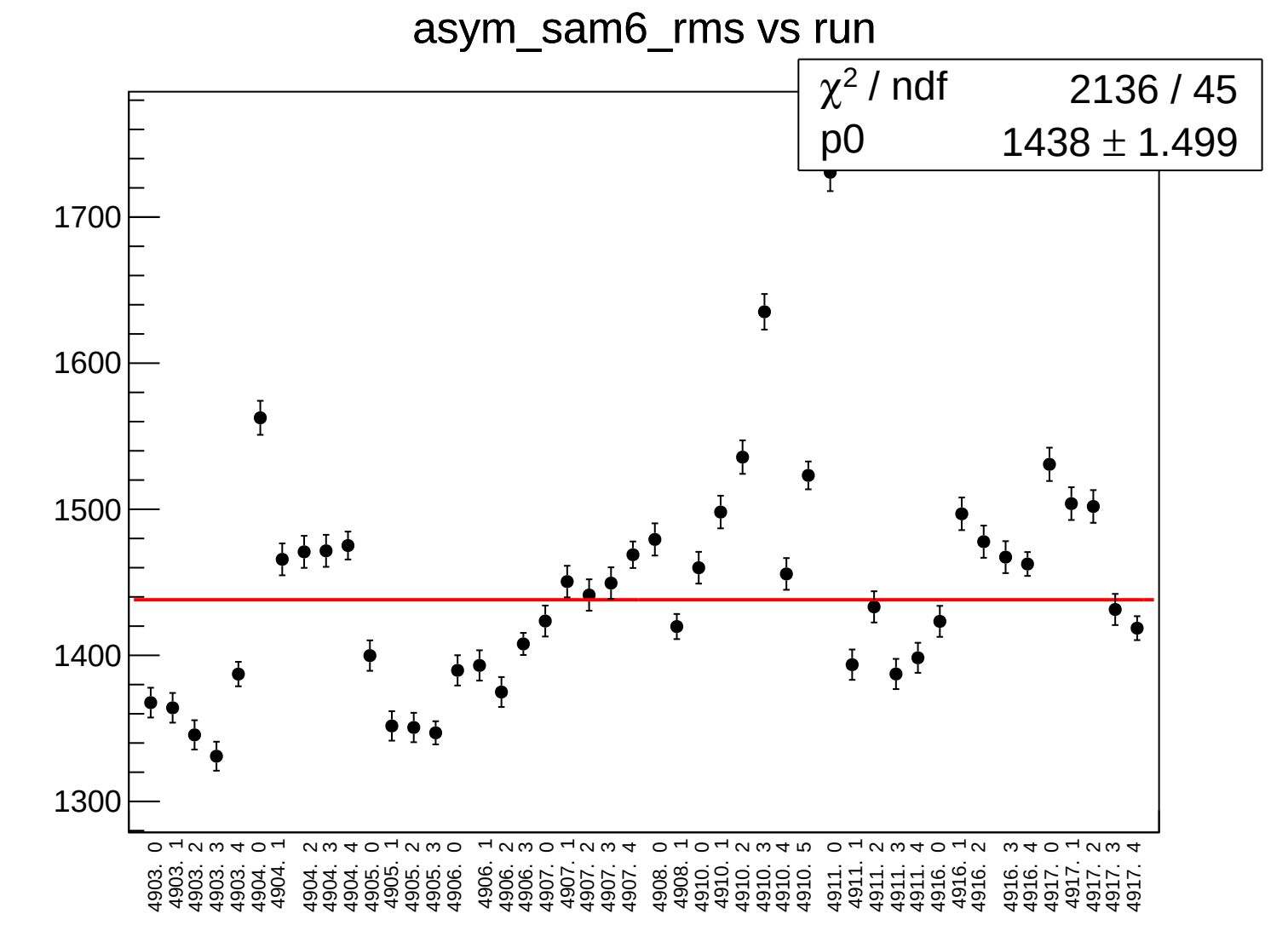

pull1D
Entries 46
Mean −0.001645
Std Dev 0.8328
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

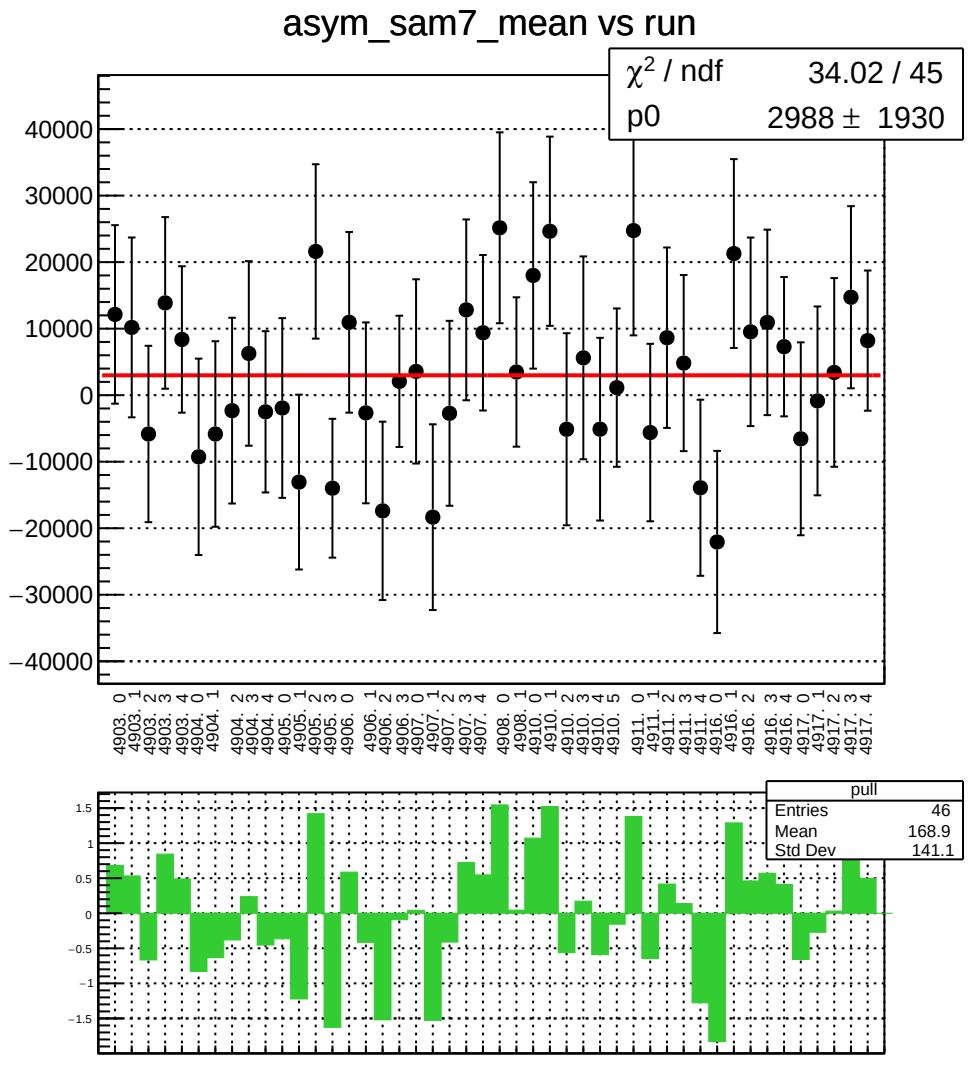

asym_sam4_rms vs run
χ² / ndf 732.9 / 45
p0 3323 ± 3.461
3700
3600
3500
3400
3300
3200
3100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

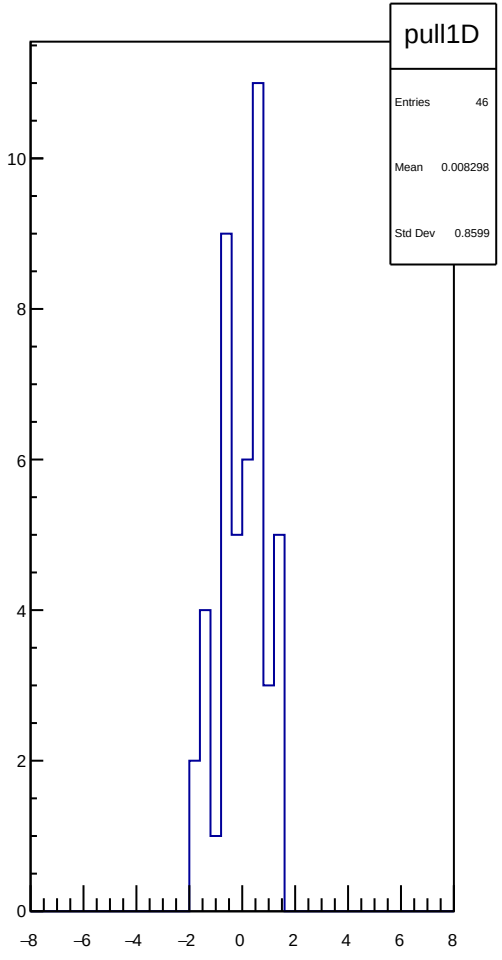

asym_sam5_mean vs run
χ² / ndf 29.12 / 45
p0 453.3 ± 730.6
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −175
Std Dev 202.8
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.01011
Std Dev 0.7955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

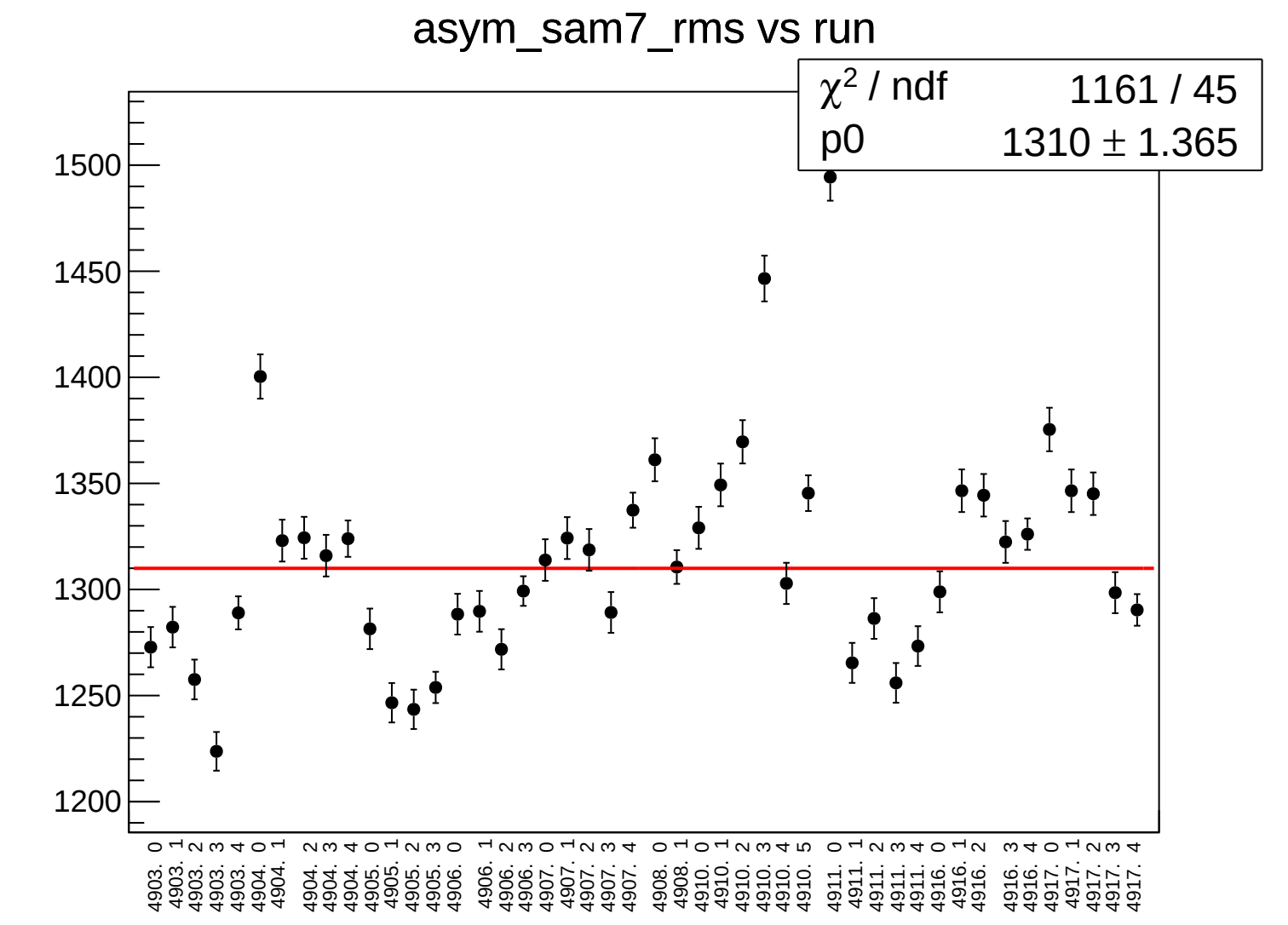

asym_sam5_rms vs run
χ² / ndf 2942 / 45
p0 495.4 ± 0.5166
560
540
520
500
480
460
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

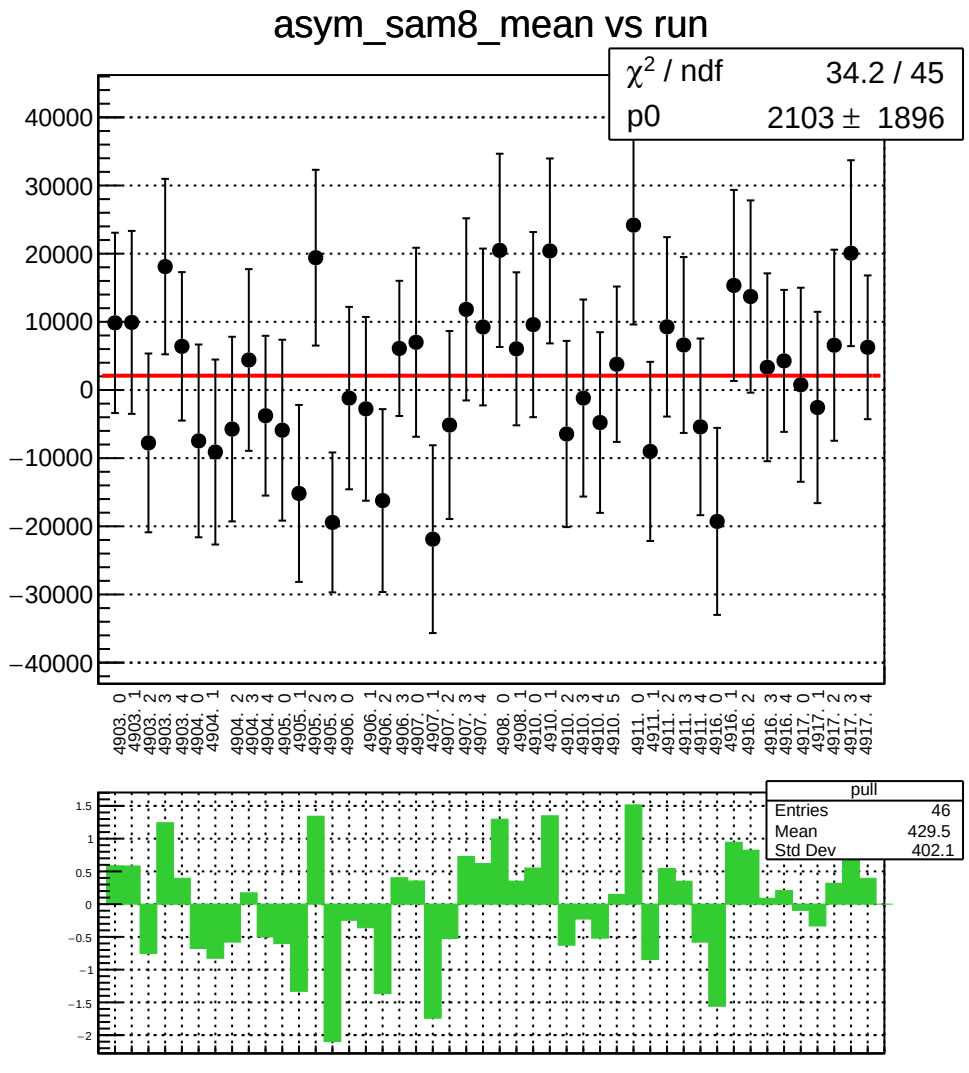

asym_sam6_mean vs run
χ² / ndf 33.11 / 45
p0 2890 ± 2120
40000
20000
0
−20000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 291.9
Std Dev 267.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.008694
Std Dev 0.8483
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

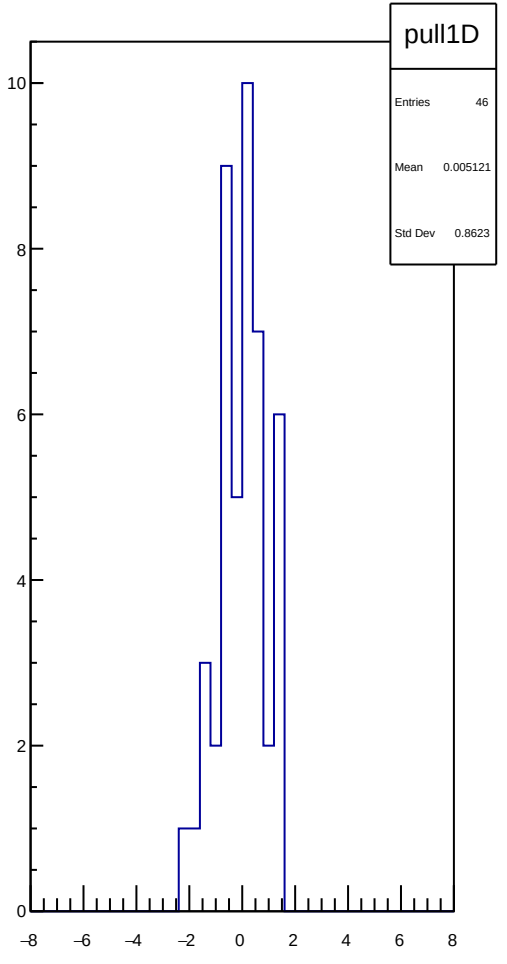

asym_sam6_rms vs run
χ² / ndf 2136 / 45
p0 1438 ± 1.499
1700
1600
1500
1400
1300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

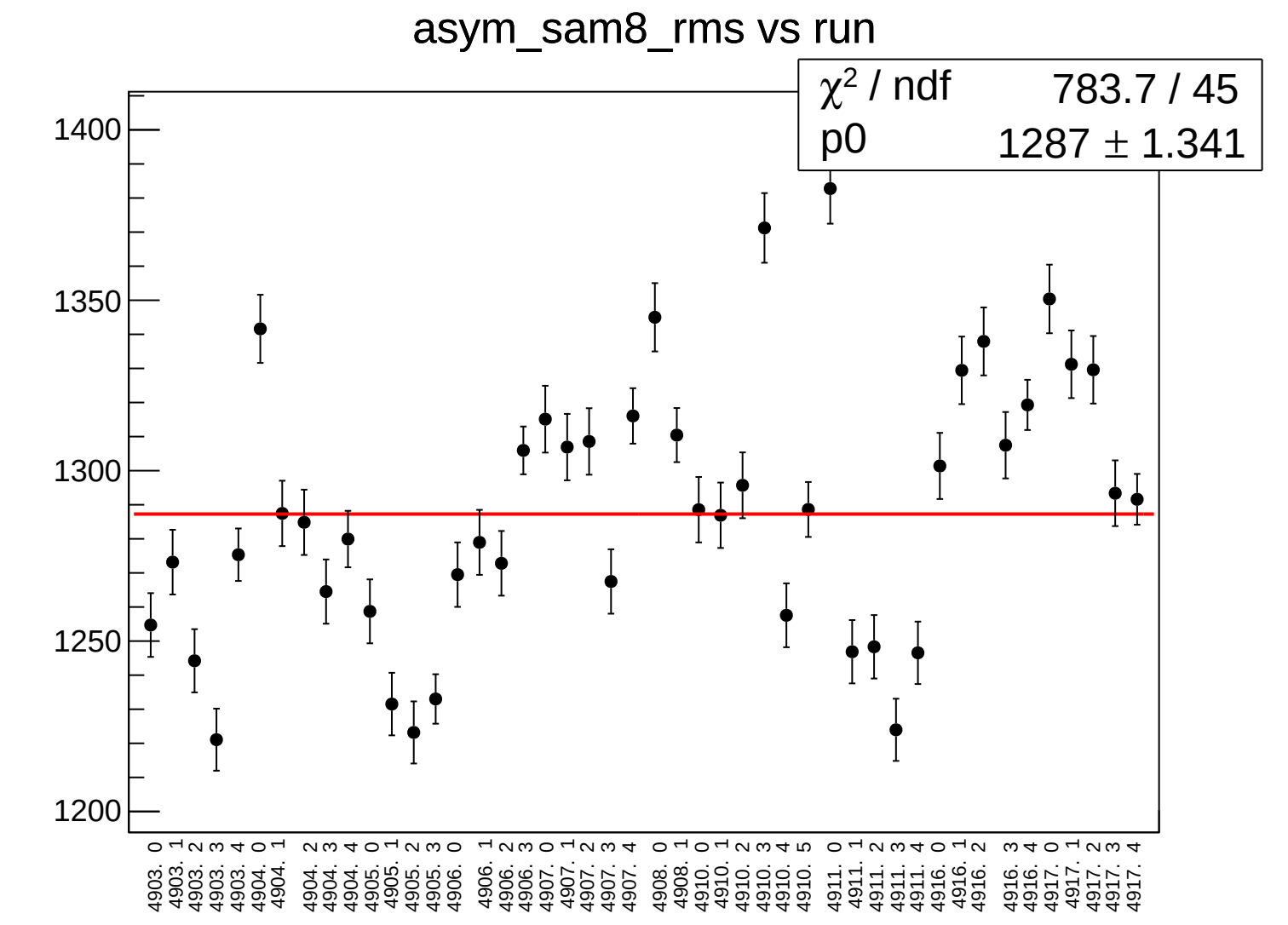

asym_sam7_mean vs run
χ² / ndf 34.02 / 45
p0 2988 ± 1930
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 168.9
Std Dev 141.1
1.5
1
0.5
0
−0.5
−1
−1.5

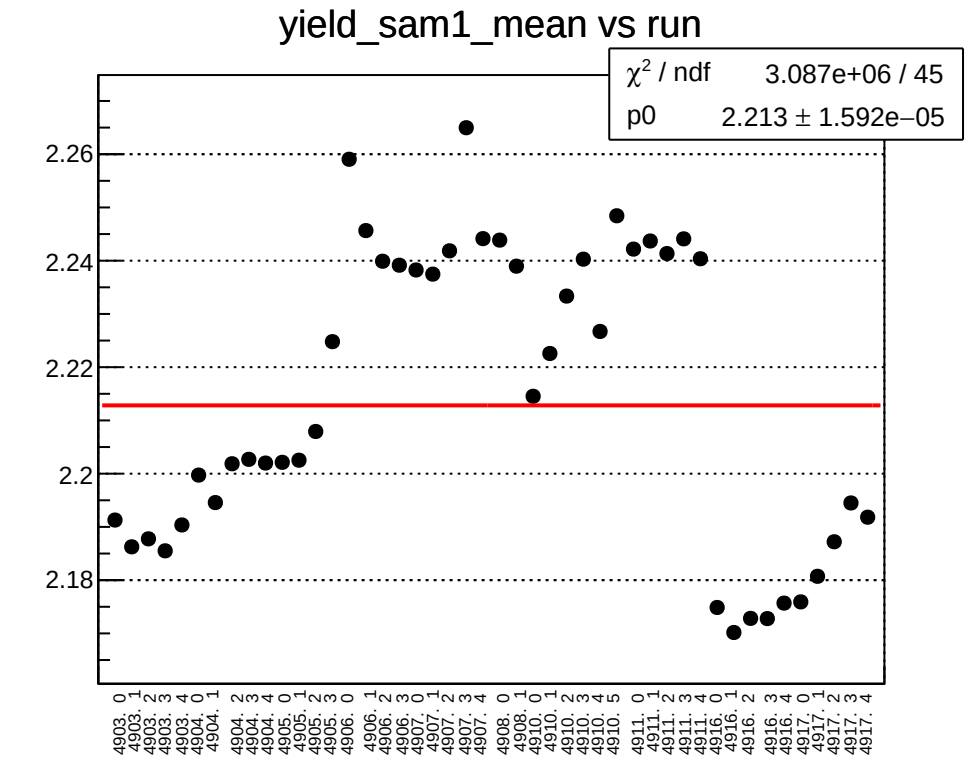

pull1D
Entries 46
Mean 0.008298
Std Dev 0.8599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

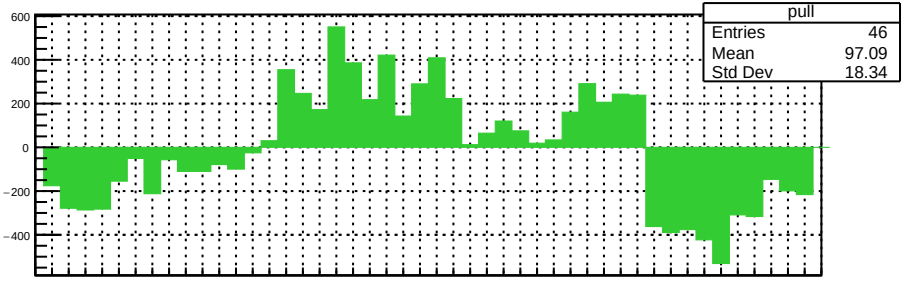

asym_sam7_rms vs run
χ² / ndf 1161 / 45
p0 1310 ± 1.365
1500
1450
1400
1350
1300
1250
1200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

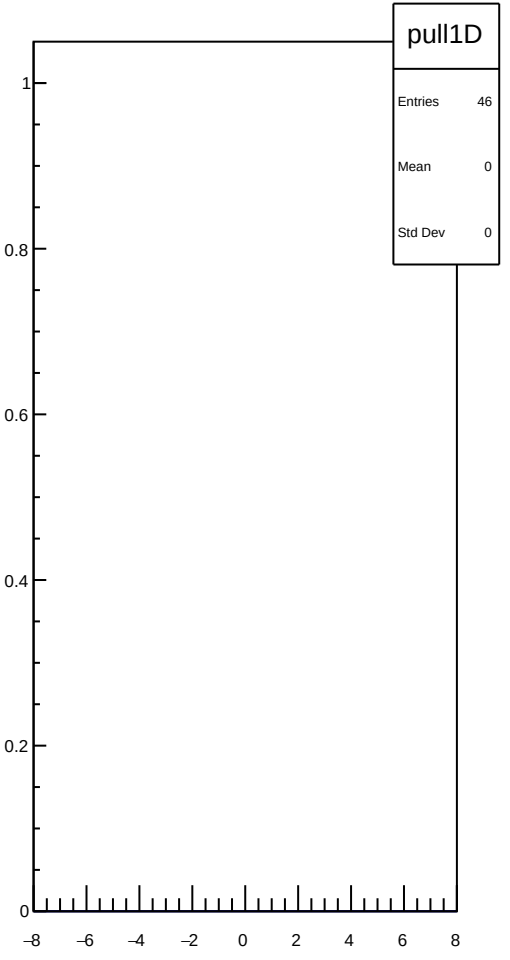

asym_sam8_mean vs run
χ² / ndf 34.2 / 45
p0 2103 ± 1896
pull
Entries 46
Mean 429.5
Std Dev 402.1

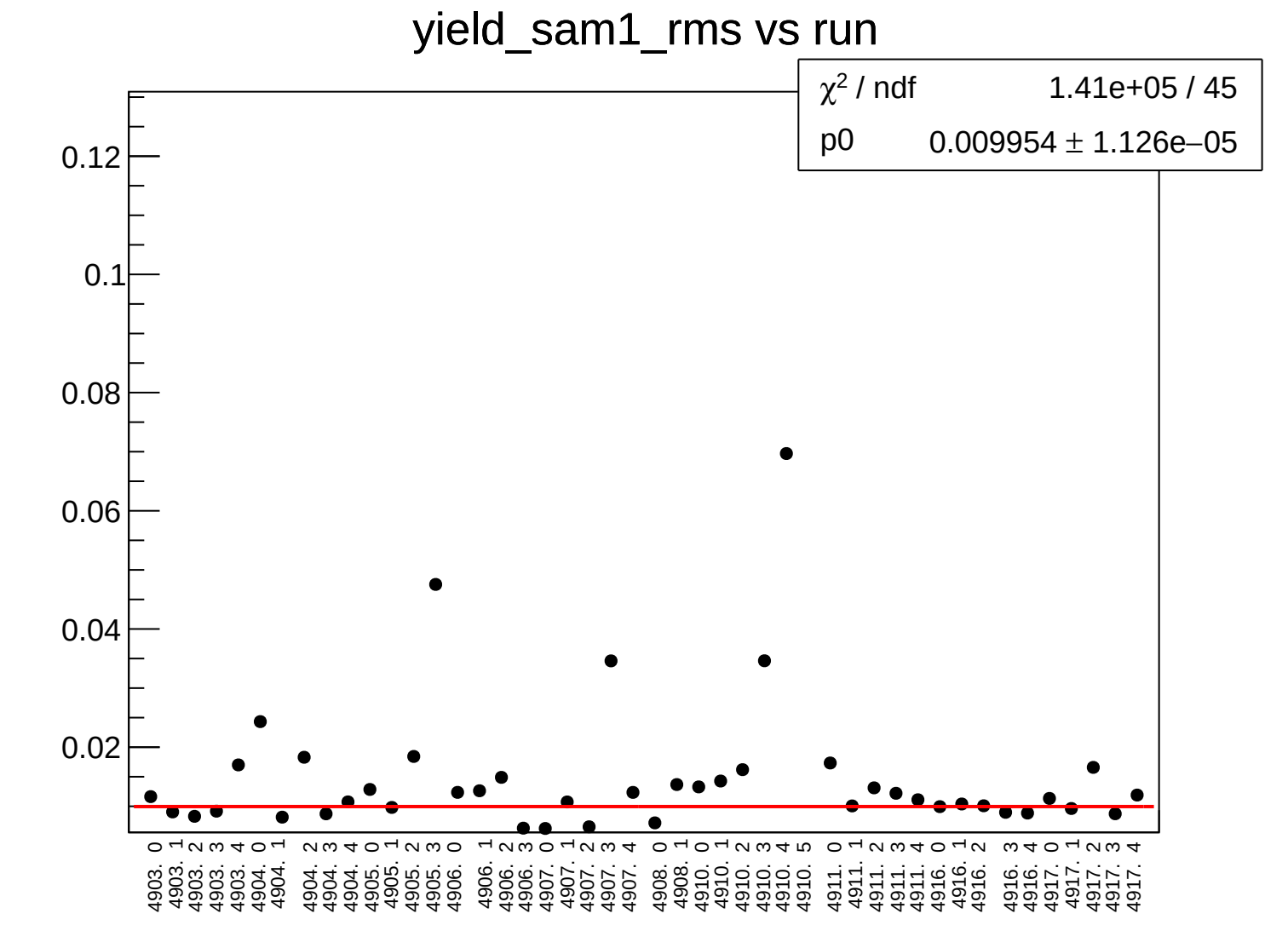

pull1D
Entries 46
Mean 0.005121
Std Dev 0.8623

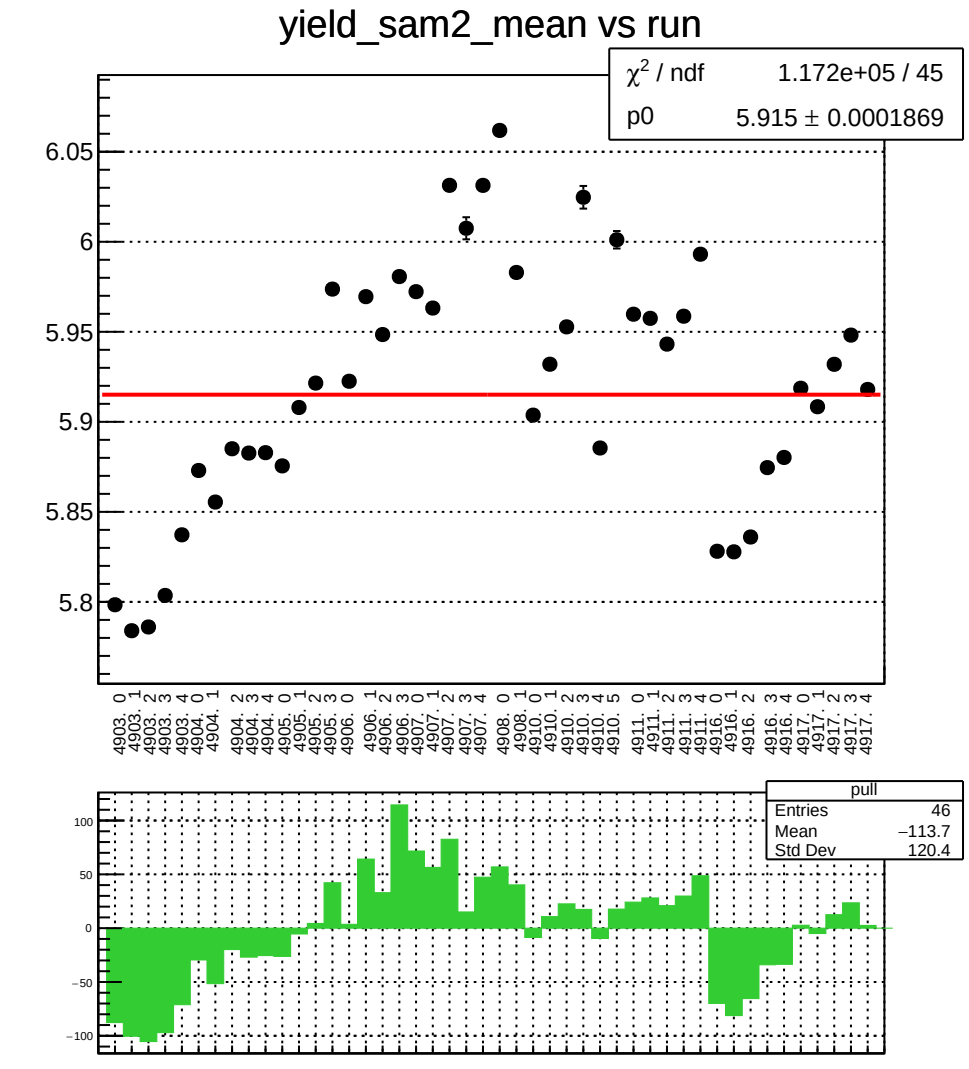

asym_sam8_rms vs run
χ² / ndf 783.7 / 45
p0 1287 ± 1.341
1400
1350
1300
1250
1200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

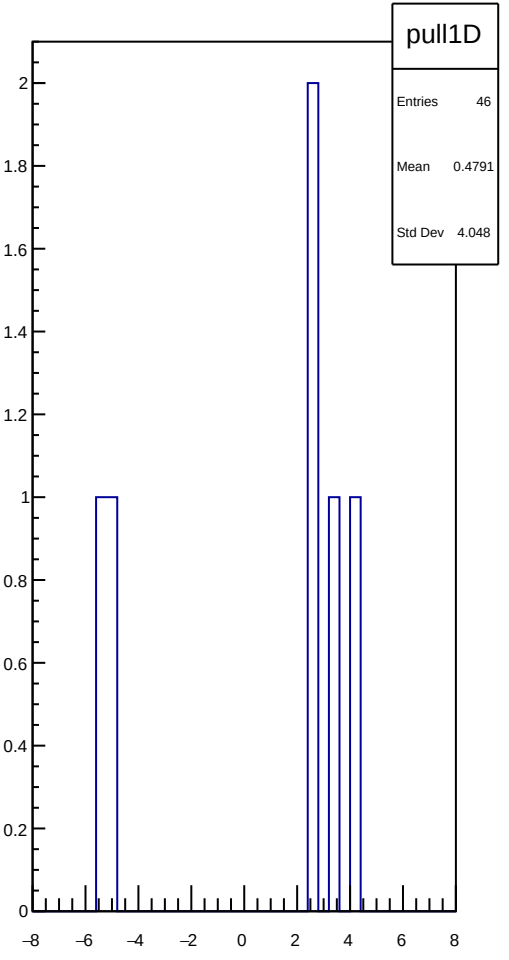

yield_sam1_mean vs run
χ² / ndf 3.087e+06 / 45
p0 2.213 ± 1.592e−05
2.26
2.24
2.22
2.2
2.18
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

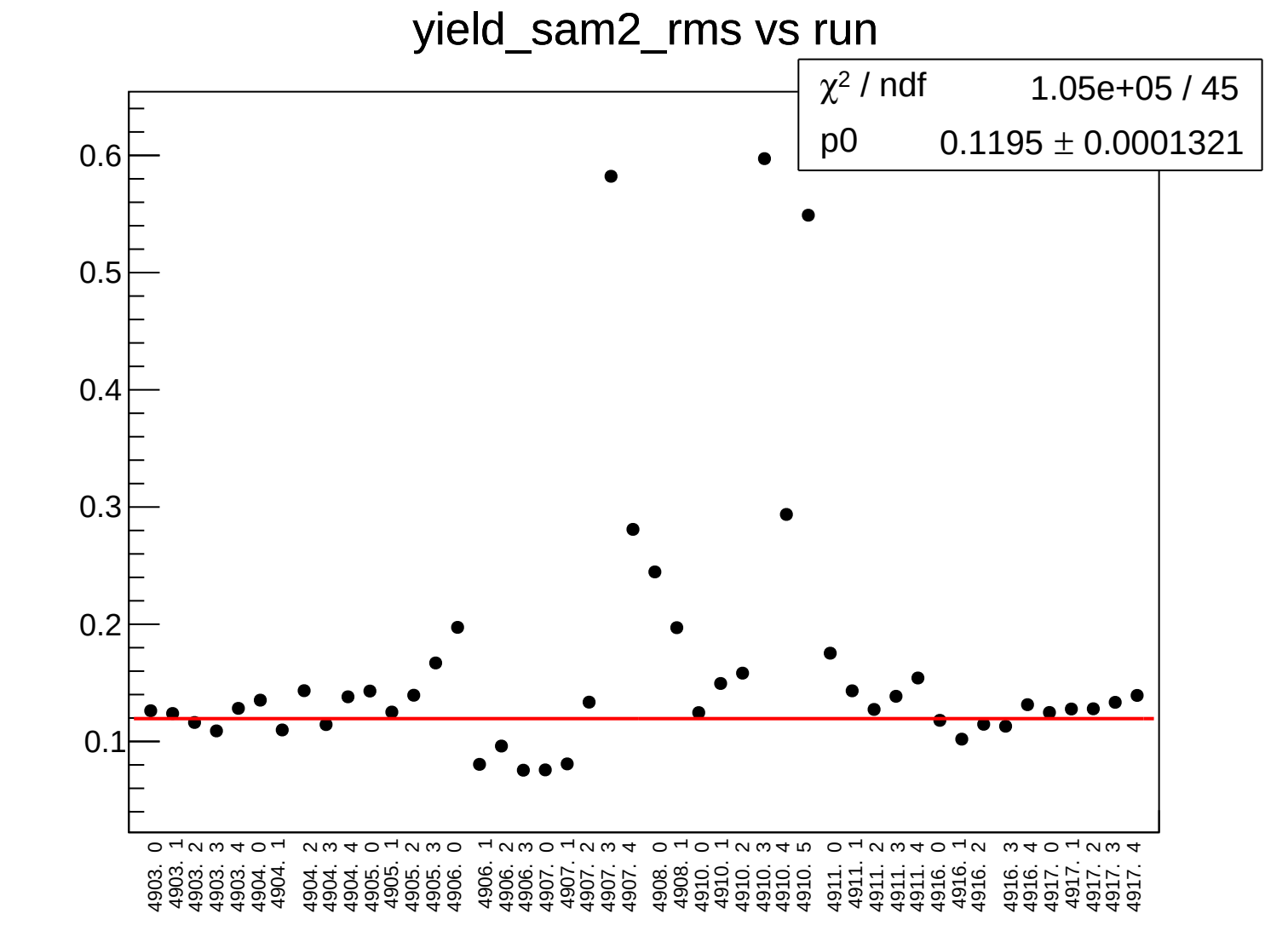

pull
Entries 46
Mean 97.09
Std Dev 18.34
600
400
200
0
−200
−400

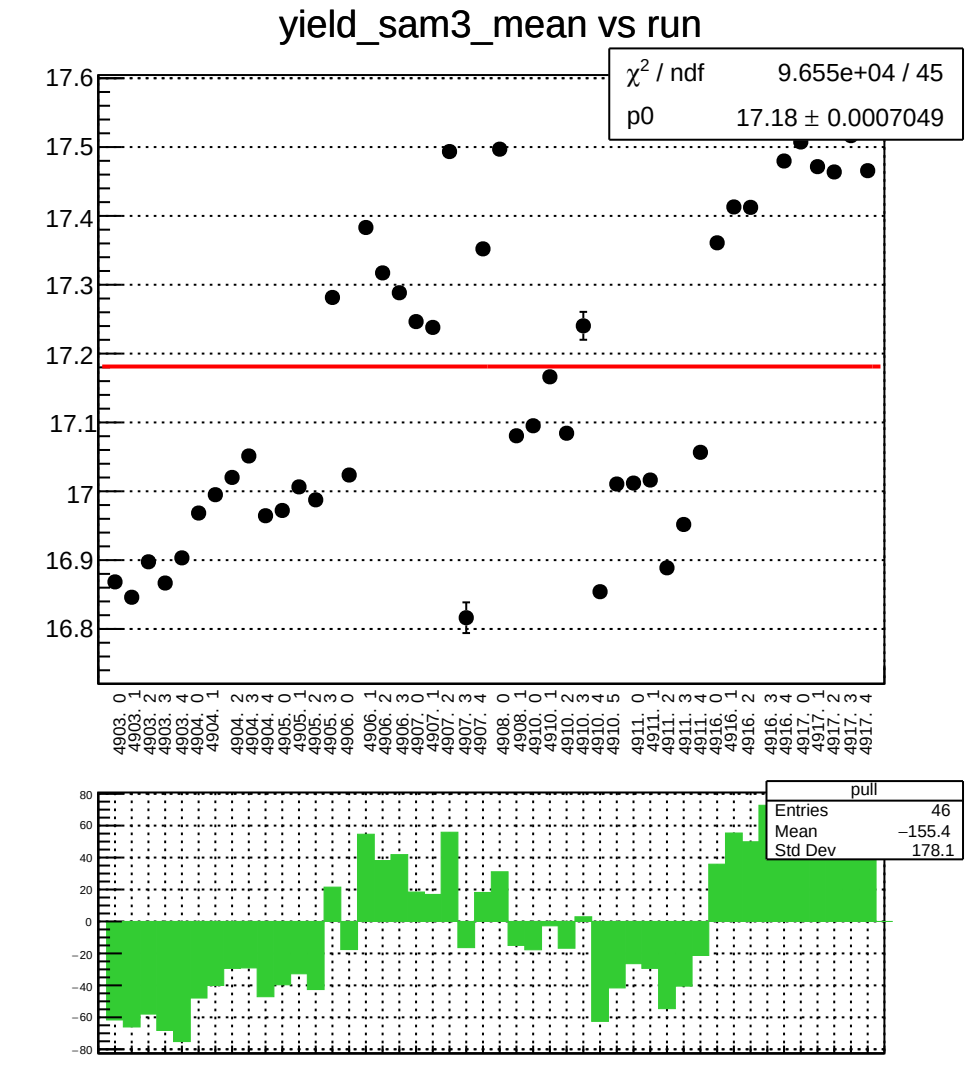

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

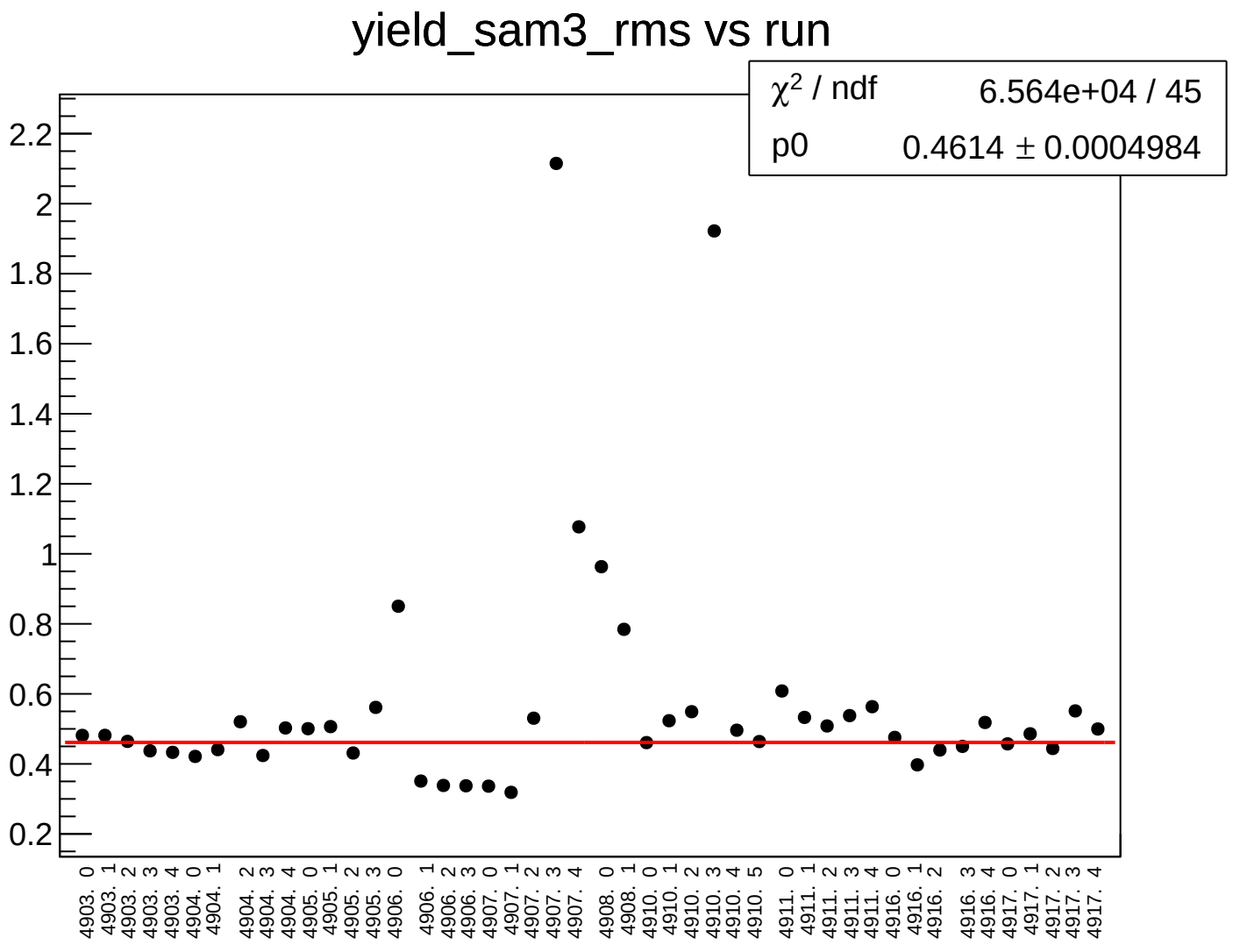

yield_sam1_rms vs run
χ² / ndf 1.41e+05 / 45
p0 0.009954 ± 1.126e−05
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

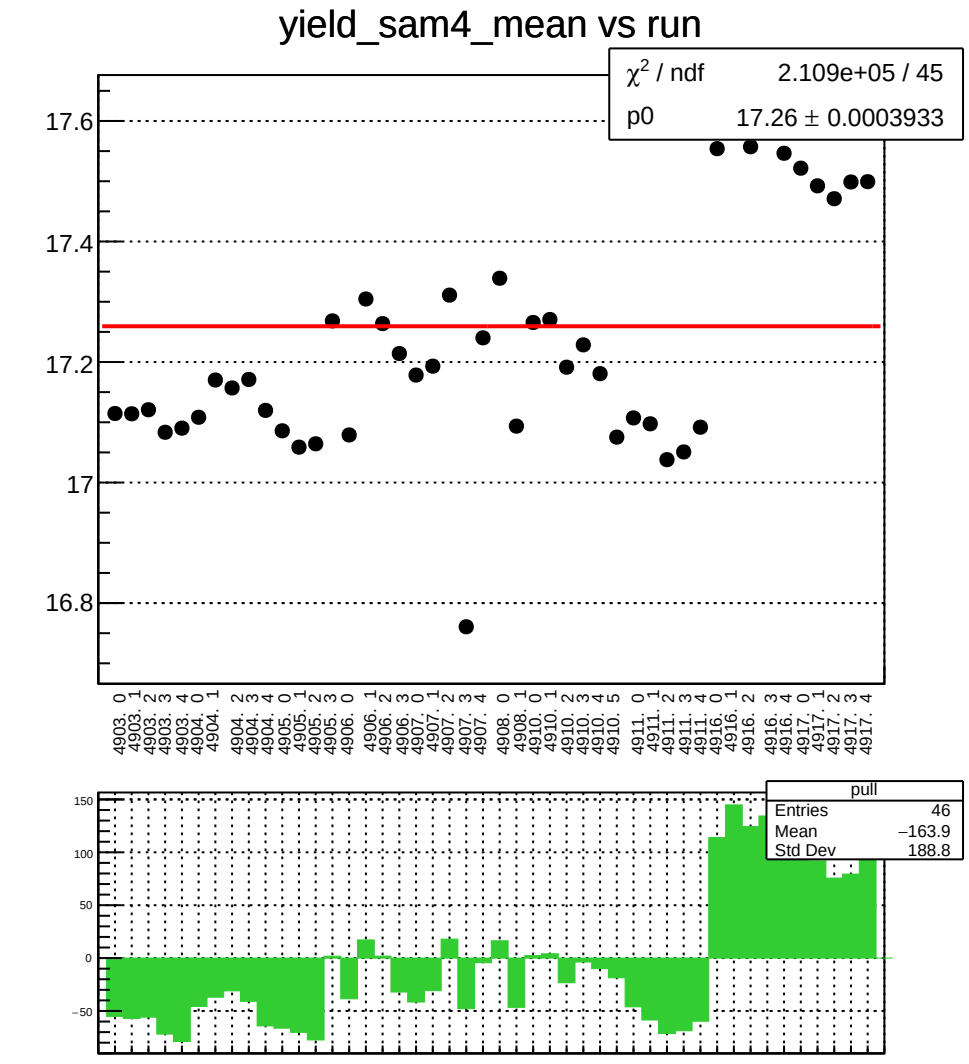

yield_sam2_mean vs run
χ² / ndf 1.172e+05 / 45
p0 5.915 ± 0.0001869
6.05
6
5.95
5.9
5.85
5.8
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −113.7
Std Dev 120.4
100
50
0
−50
−100

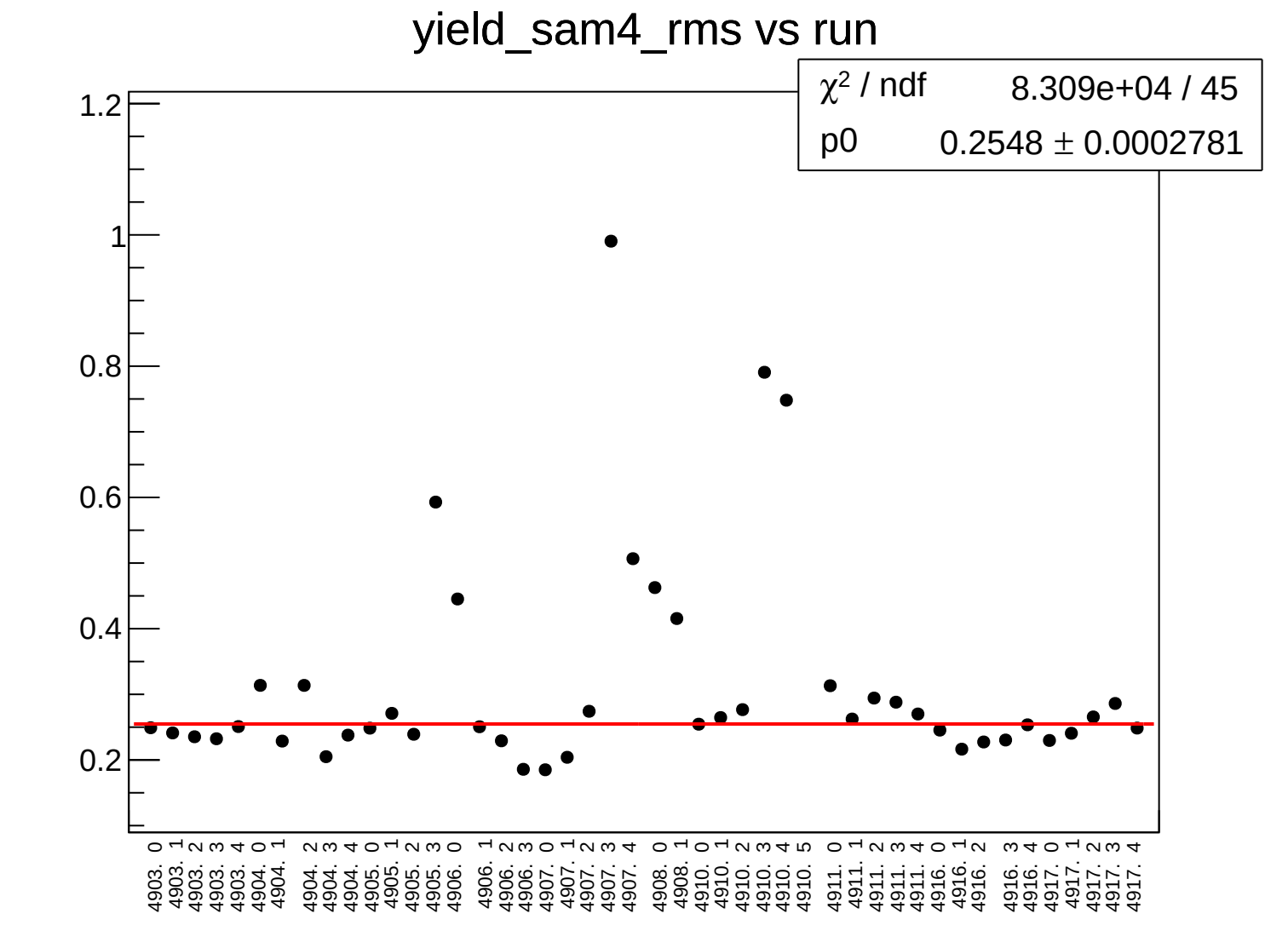

pull1D
Entries 46
Mean 0.4791
Std Dev 4.048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

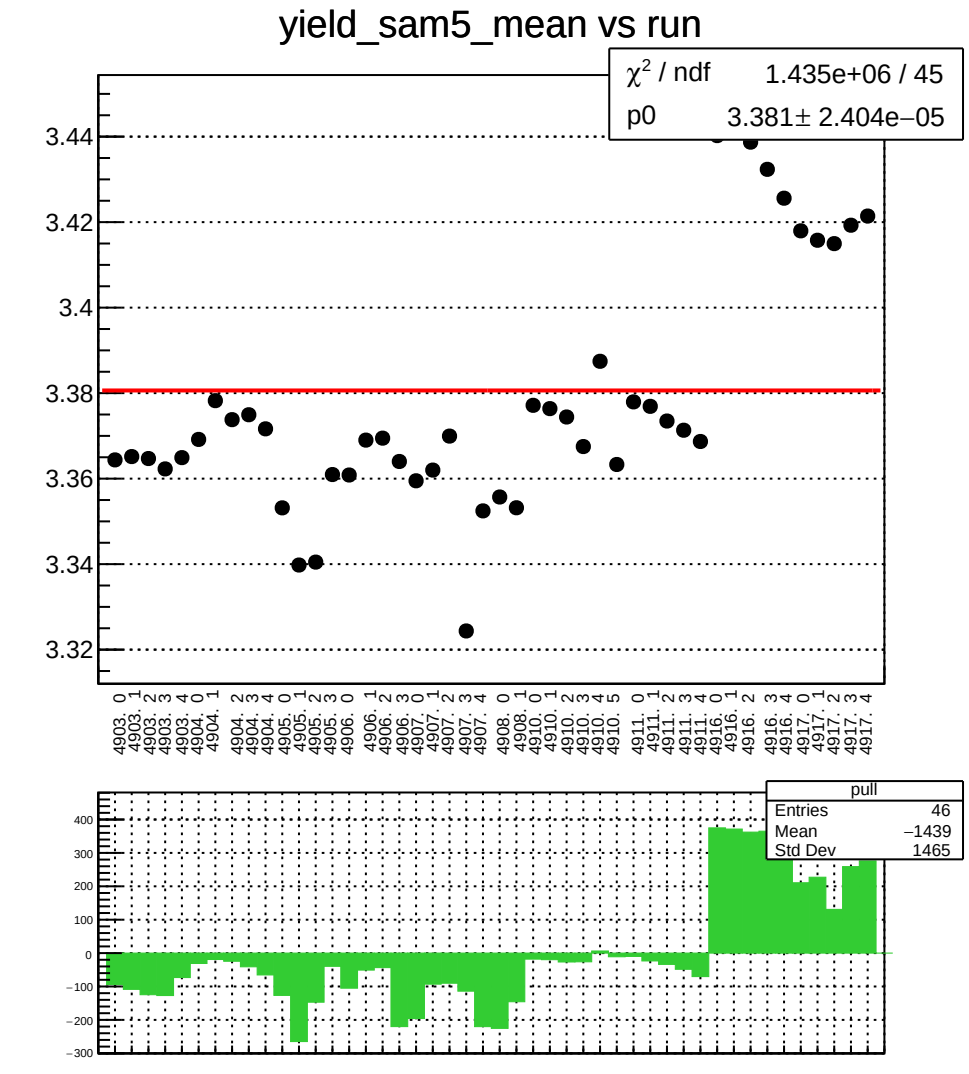

yield_sam2_rms vs run
χ² / ndf 1.05e+05 / 45
p0 0.1195 ± 0.0001321
0.6
0.5
0.4
0.3
0.2
0.1
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

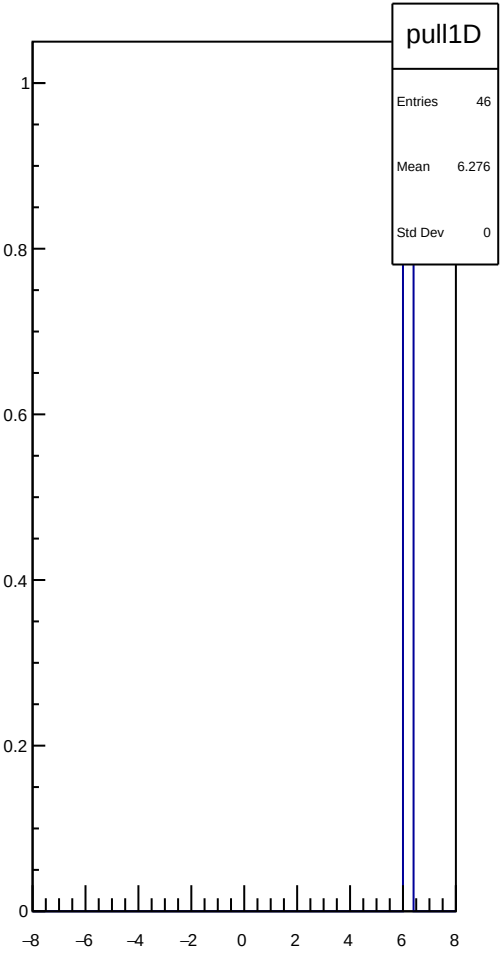

yield_sam3_mean vs run
χ² / ndf 9.655e+04 / 45
p0 17.18 ± 0.0007049
17.6
17.5
17.4
17.3
17.2
17.1
17
16.9
16.8
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −155.4
Std Dev 178.1
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean 0.1028
Std Dev 2.815
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

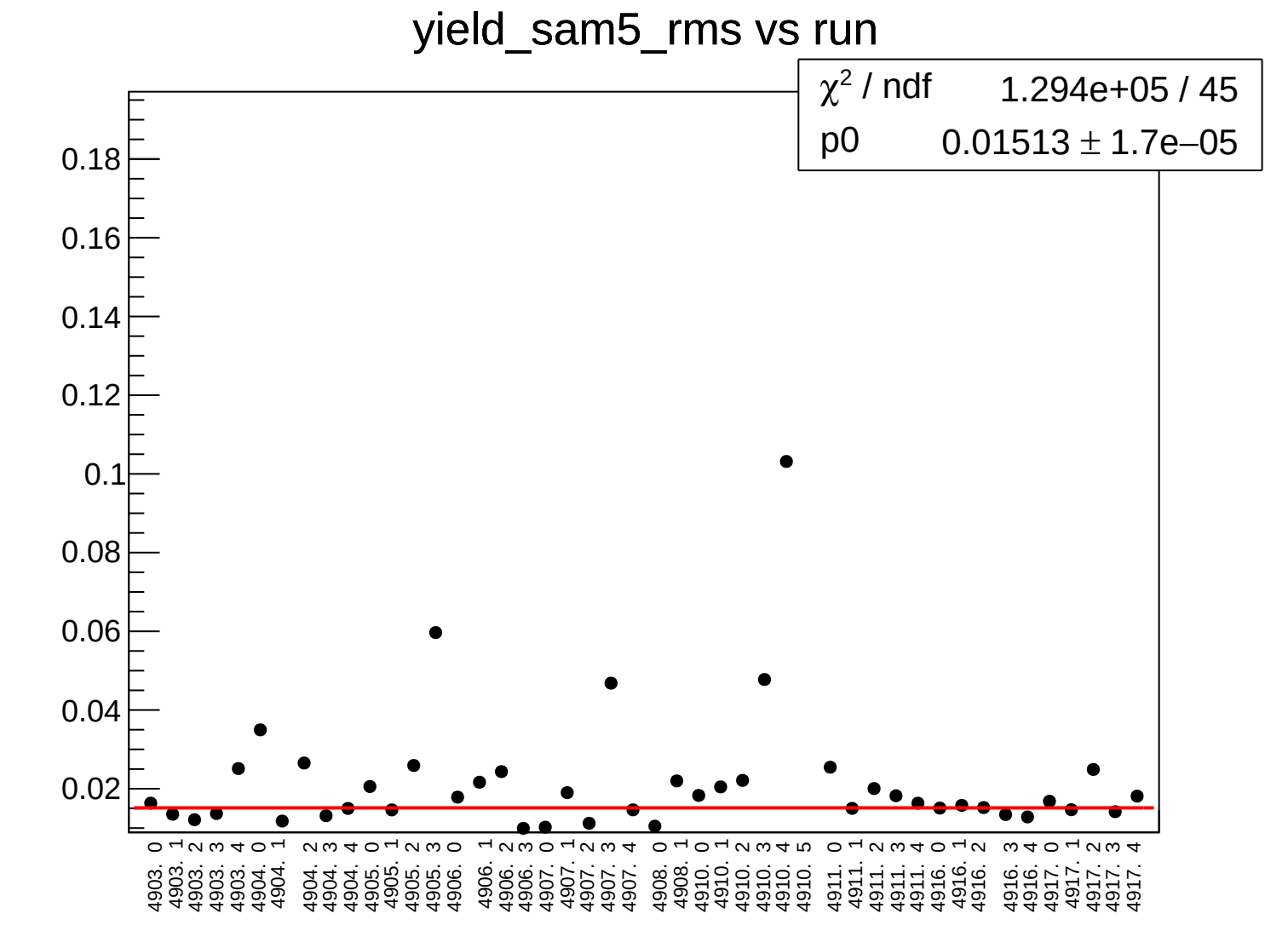

yield_sam3_rms vs run
χ² / ndf 6.564e+04 / 45
p0 0.4614 ± 0.0004984
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

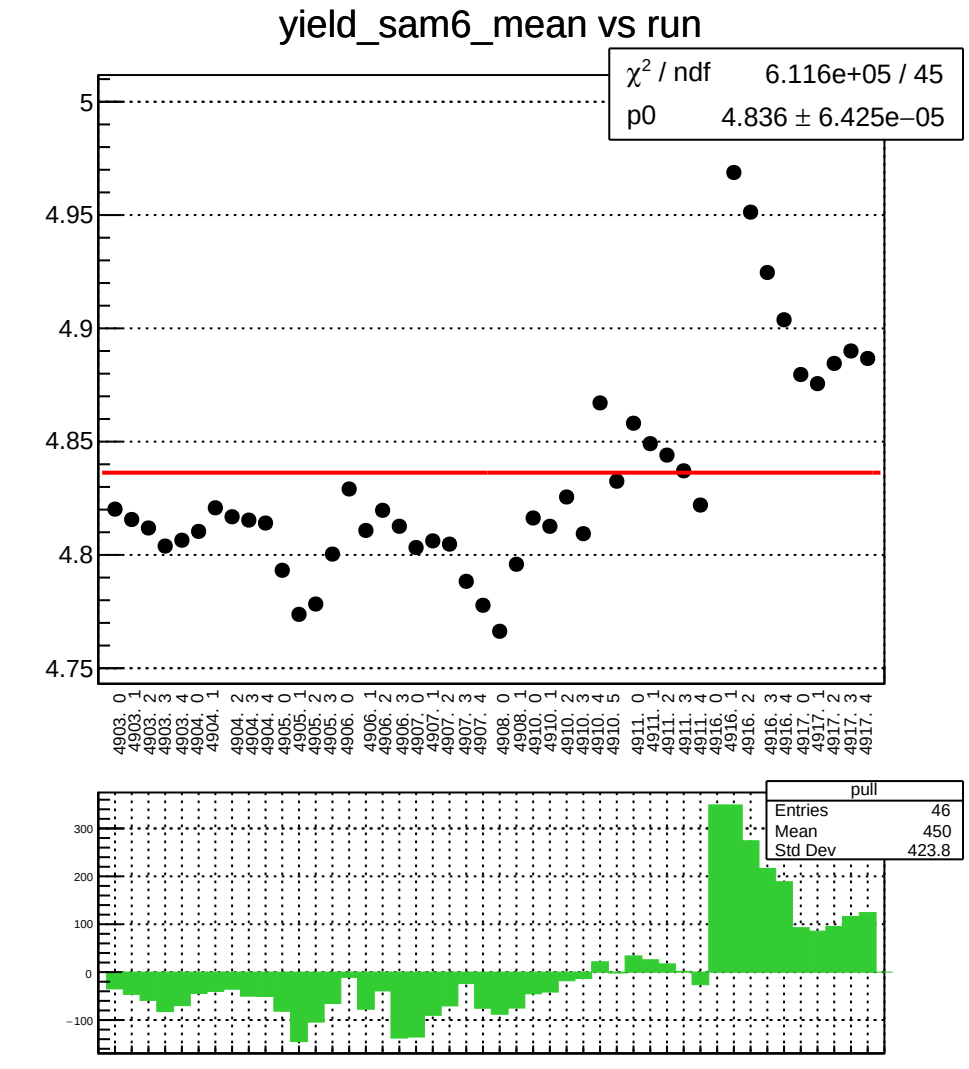

yield_sam4_mean vs run
χ² / ndf 2.109e+05 / 45
p0 17.26 ± 0.0003933
17.6
17.4
17.2
17
16.8
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −163.9
Std Dev 188.8
150
100
50
0
−50
pull1D
Entries 46
Mean 0.3311
Std Dev 3.167
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

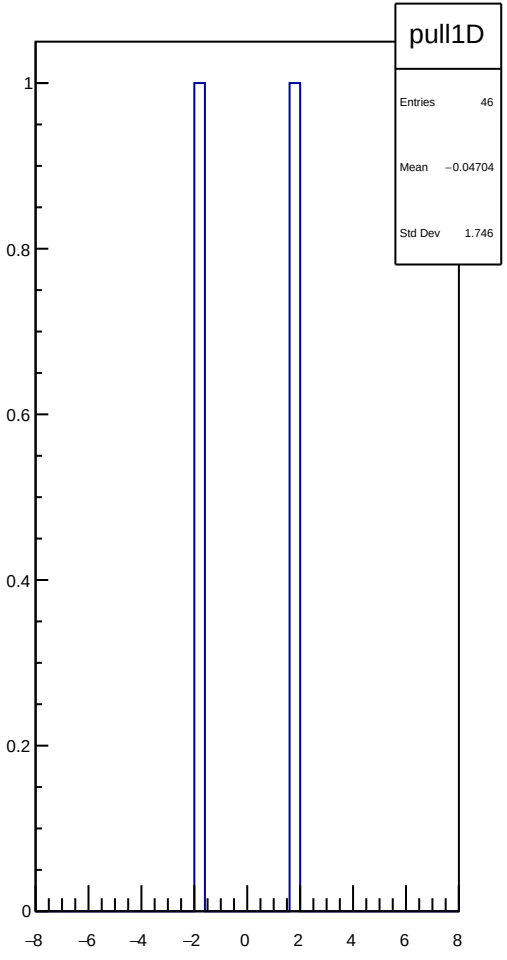

yield_sam4_rms vs run
χ² / ndf 8.309e+04 / 45
p0 0.2548 ± 0.0002781
1.2
1
0.8
0.6
0.4
0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

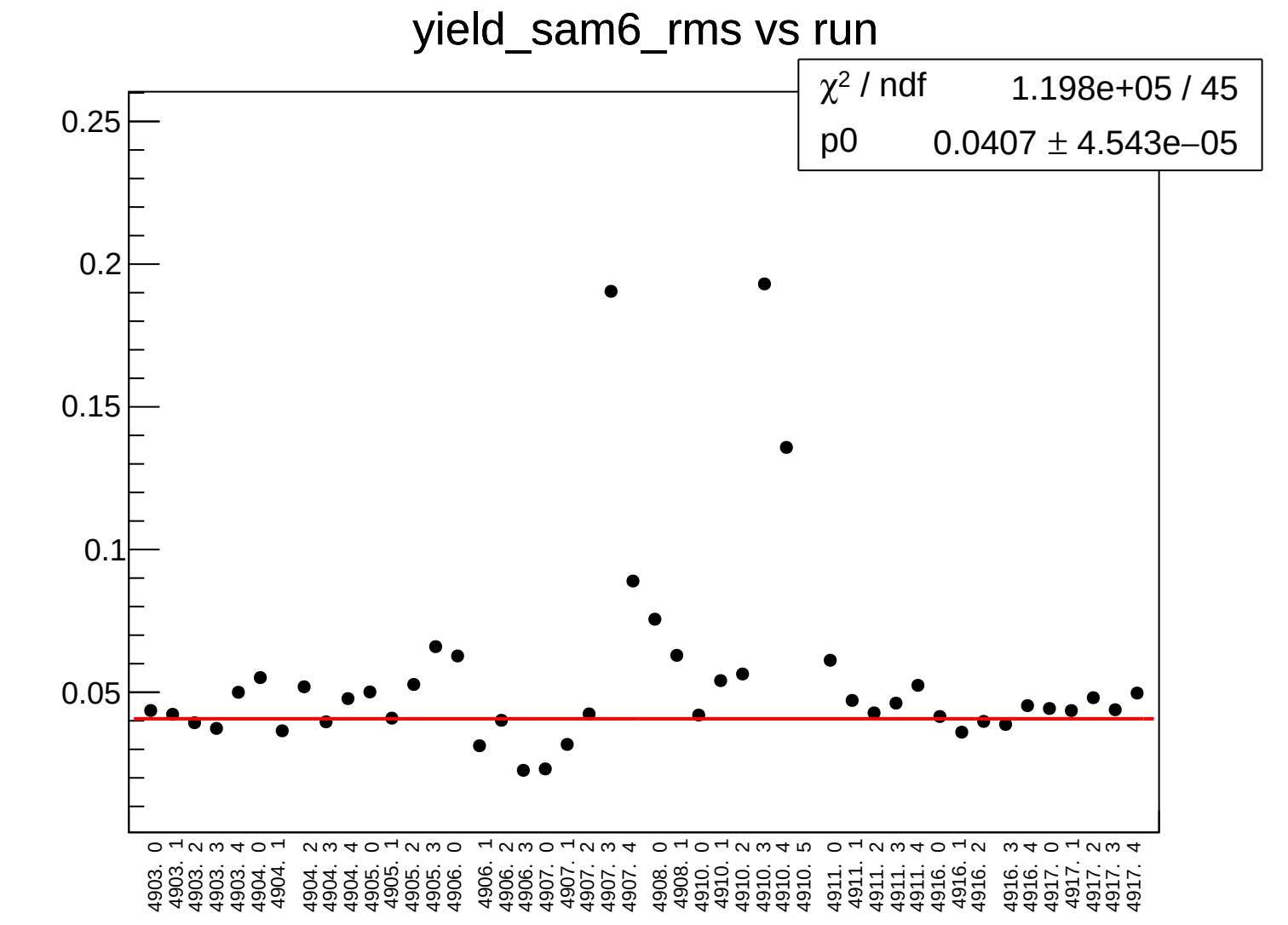

yield_sam5_mean vs run
χ² / ndf 1.435e+06 / 45
p0 3.381± 2.404e−05
3.44
3.42
3.4
3.38
3.36
3.34
3.32
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1439
Std Dev 1465
400
300
200
100
0
−100
−200
−300

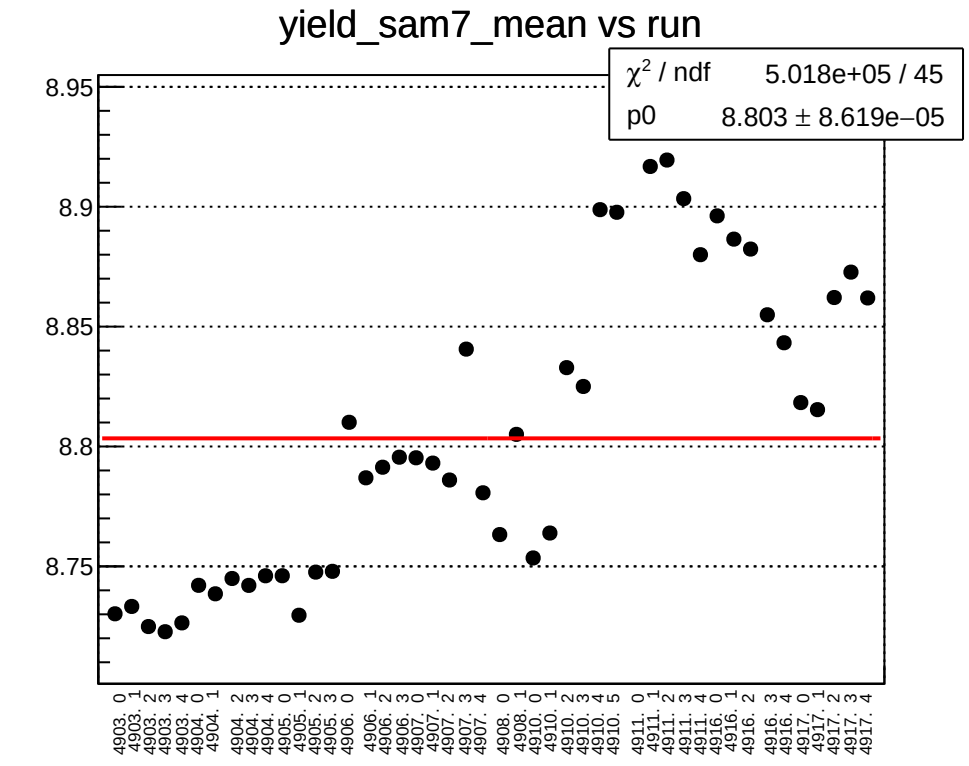

pull1D
Entries 46
Mean 6.276
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

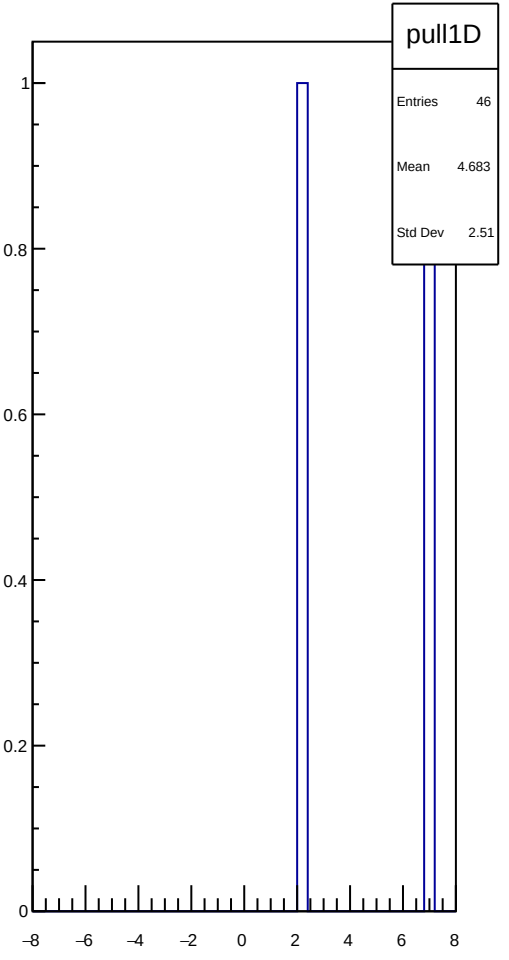

yield_sam5_rms vs run
χ^2 / ndf 1.294e+05 / 45
p0 0.01513 ± 1.7e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

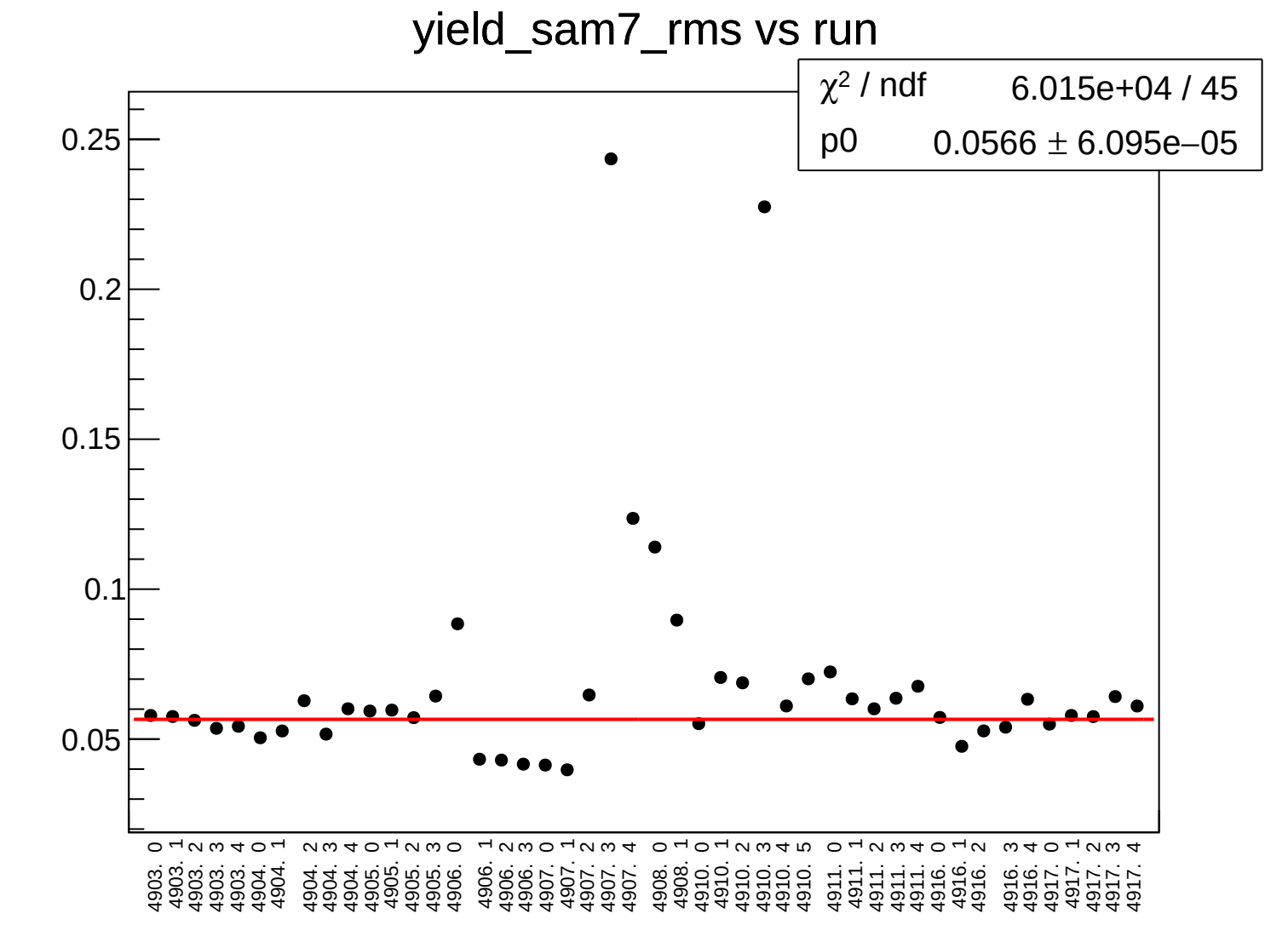

yield_sam6_mean vs run
χ² / ndf 6.116e+05 / 45
p0 4.836 ± 6.425e−05
5
4.95
4.9
4.85
4.8
4.75
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 450
Std Dev 423.8
300
200
100
0
−100

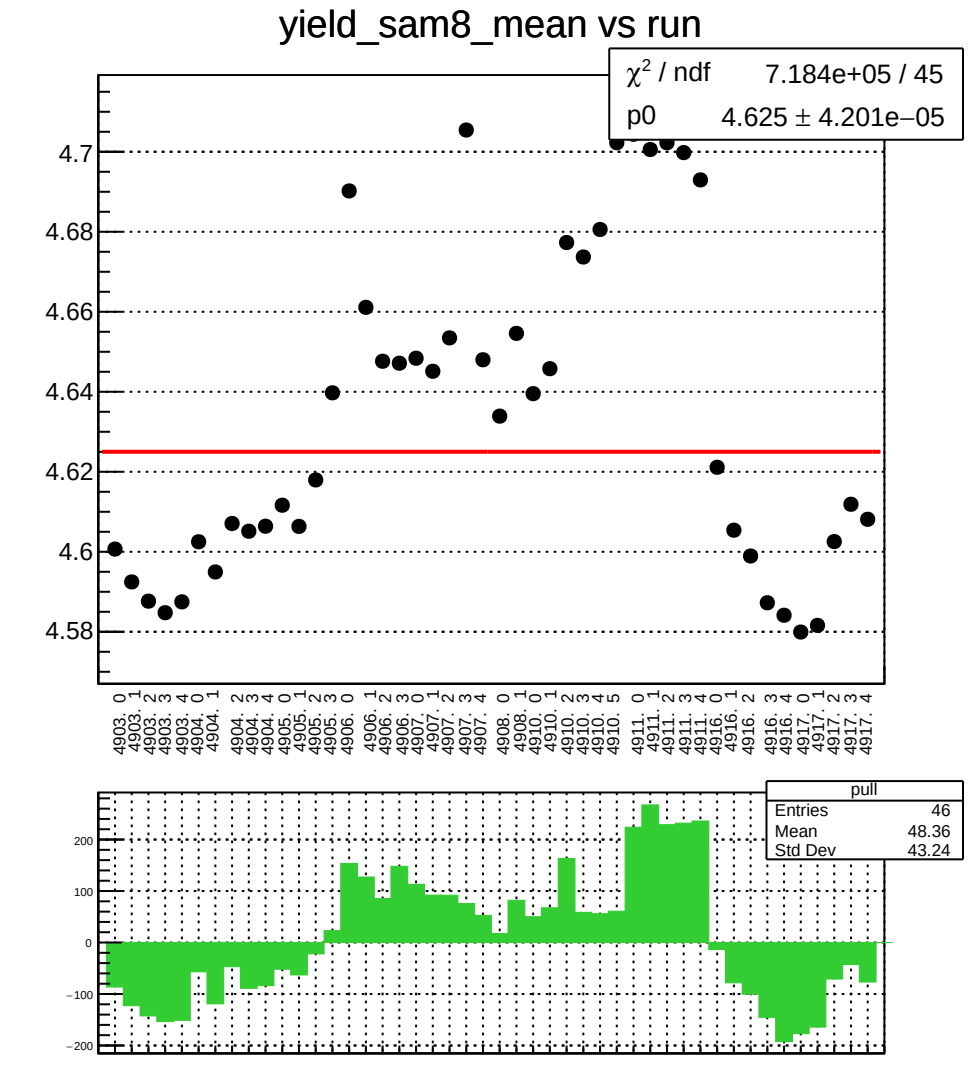

pull1D
Entries 46
Mean −0.04704
Std Dev 1.746
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

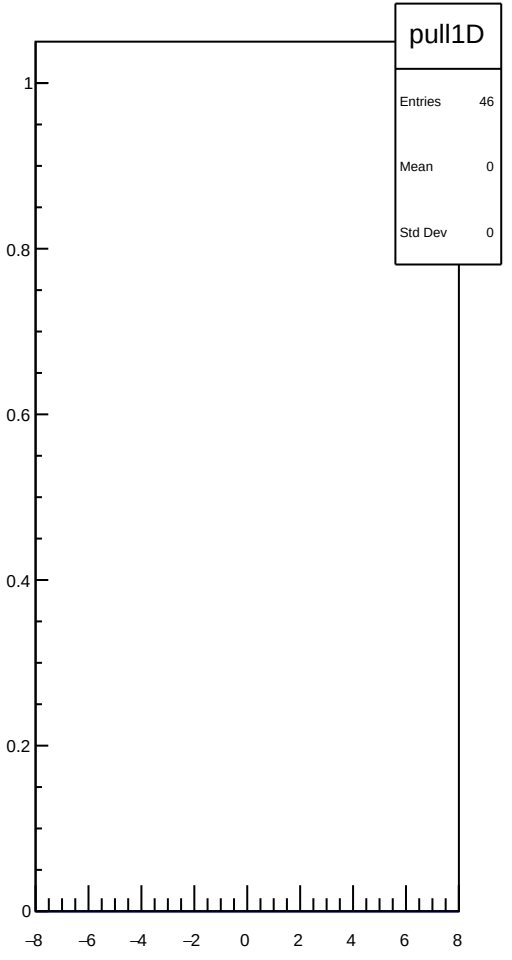

yield_sam6_rms vs run
χ² / ndf 1.198e+05 / 45
p0 0.0407 ± 4.543e−05
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

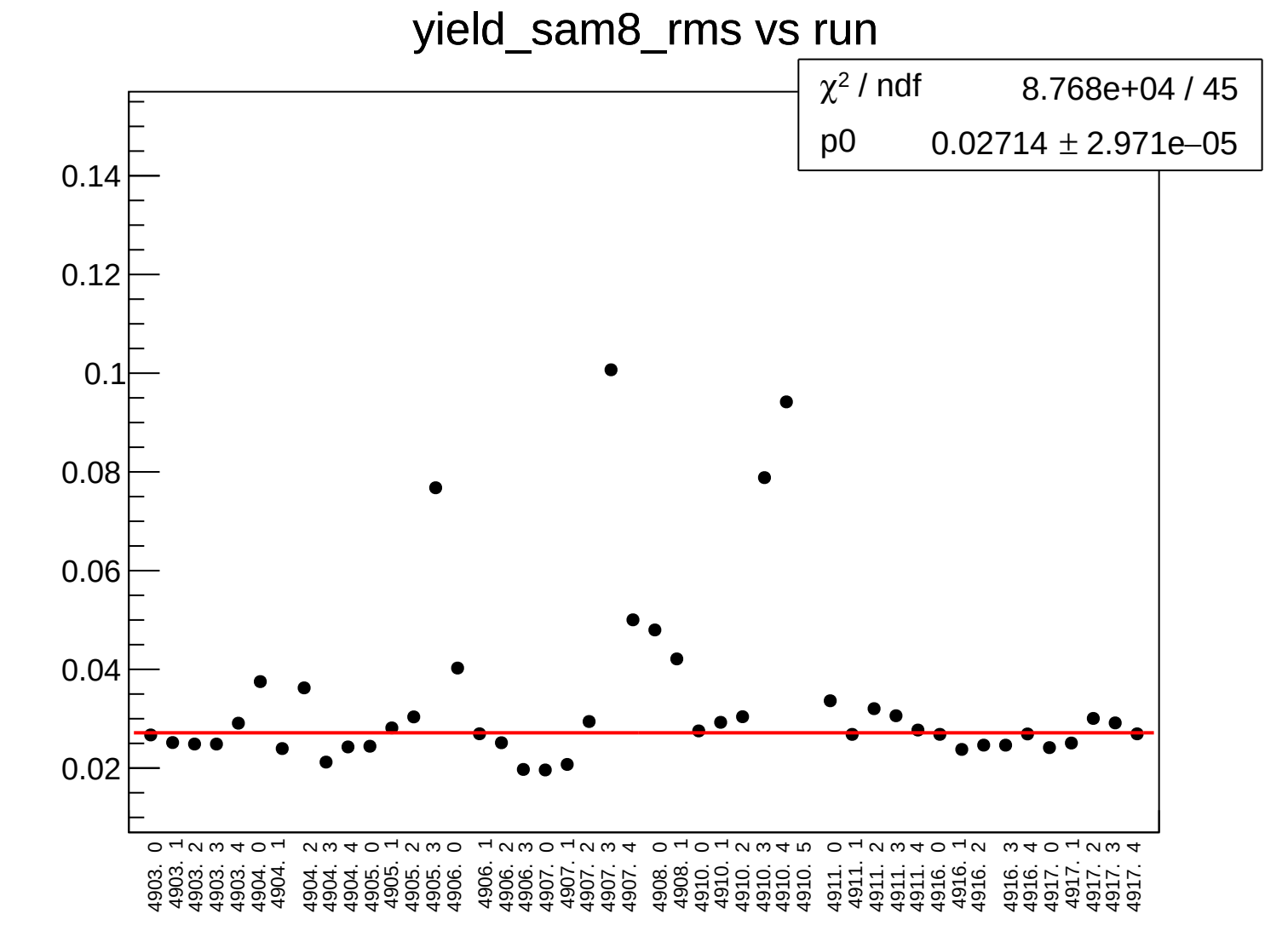

yield_sam7_mean vs run
χ² / ndf 5.018e+05 / 45
p0 8.803 ± 8.619e−05
8.95
8.9
8.85
8.8
8.75
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 324.2
Std Dev 301.8
200
150
100
50
0
−50
−100
−150

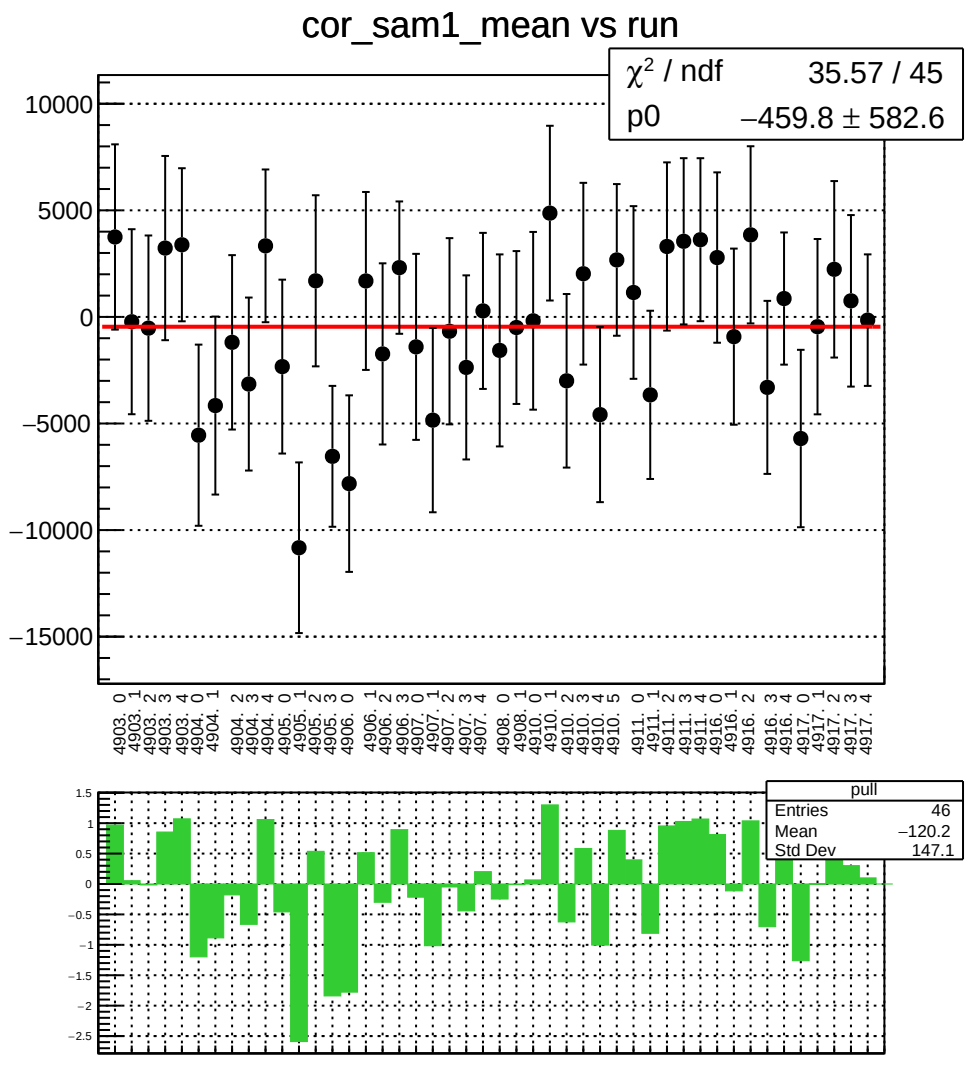

pull1D
Entries 46
Mean 4.683
Std Dev 2.51
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

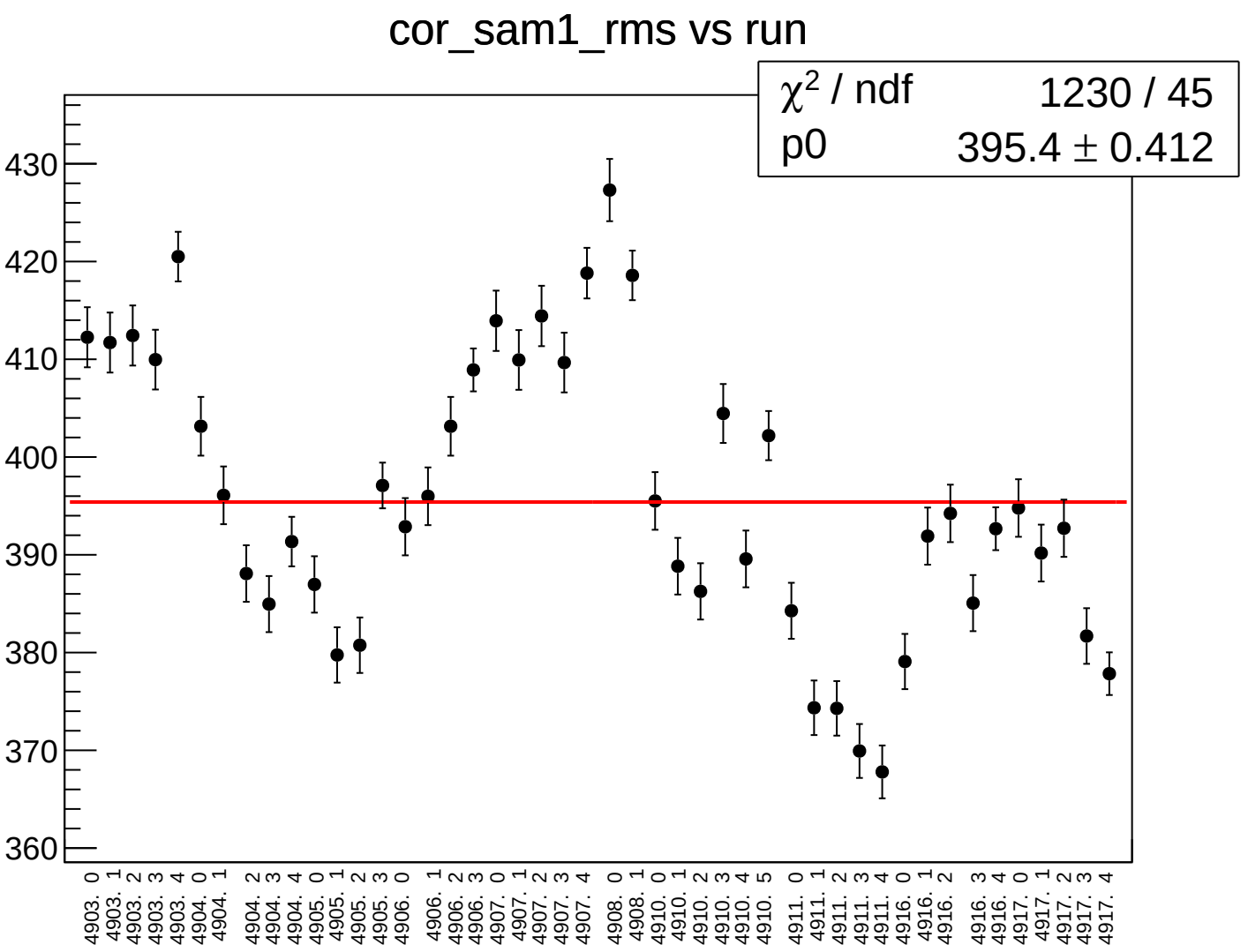

yield_sam7_rms vs run
χ² / ndf 6.015e+04 / 45
p0 0.0566 ± 6.095e−05
0.25
0.2
0.15
0.1
0.05
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

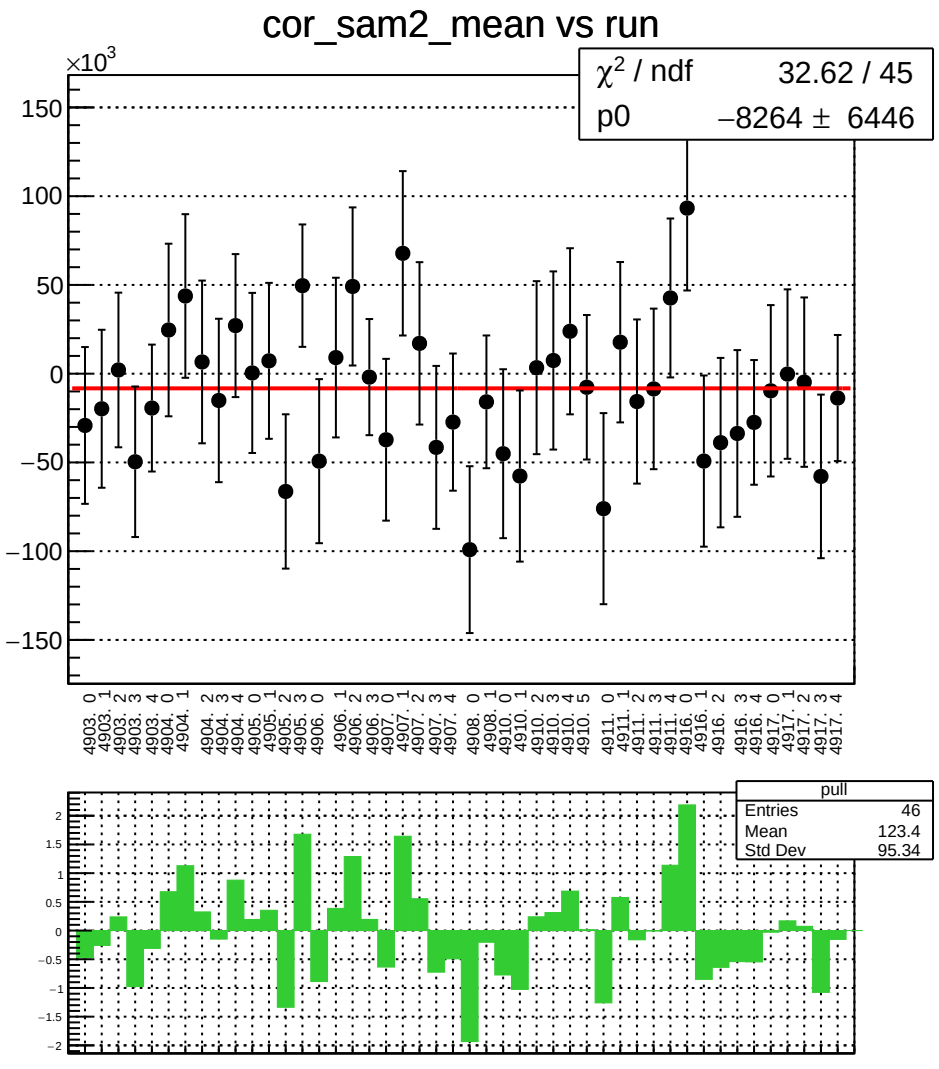

yield_sam8_mean vs run
χ² / ndf 7.184e+05 / 45
p0 4.625 ± 4.201e−05
4.7
4.68
4.66
4.64
4.62
4.6
4.58
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 48.36
Std Dev 43.24
200
100
0
−100
−200

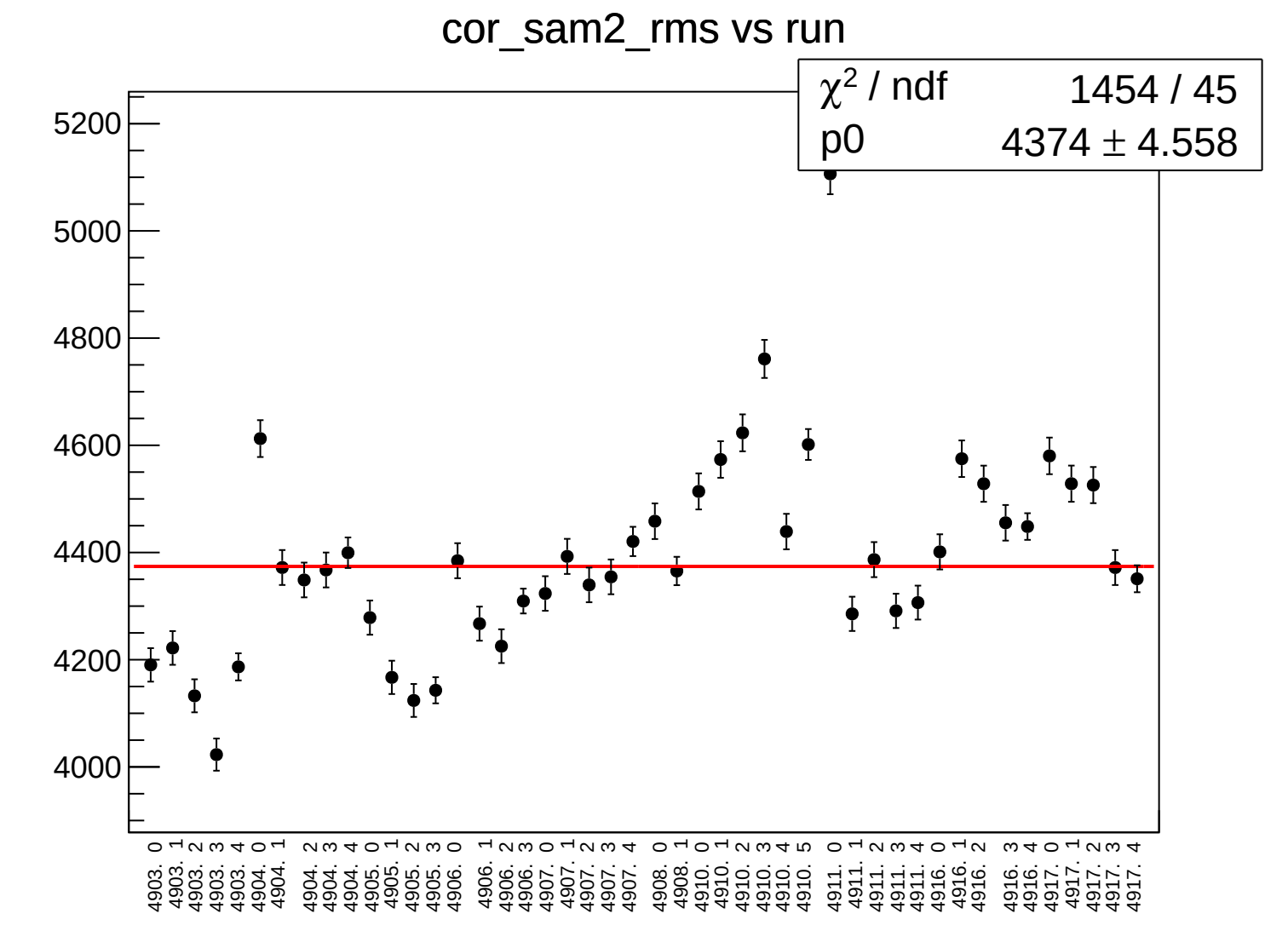

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

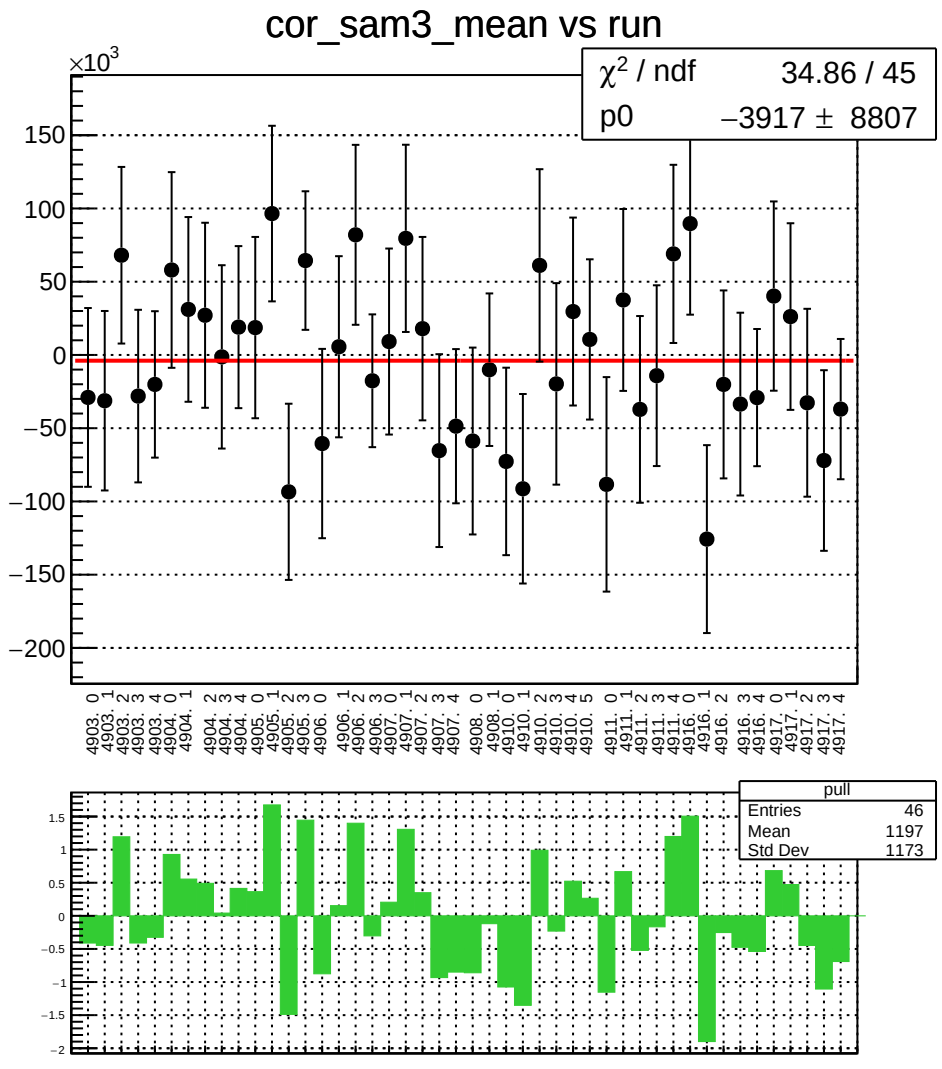

yield_sam8_rms vs run
χ² / ndf 8.768e+04 / 45
p0 0.02714 ± 2.971e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

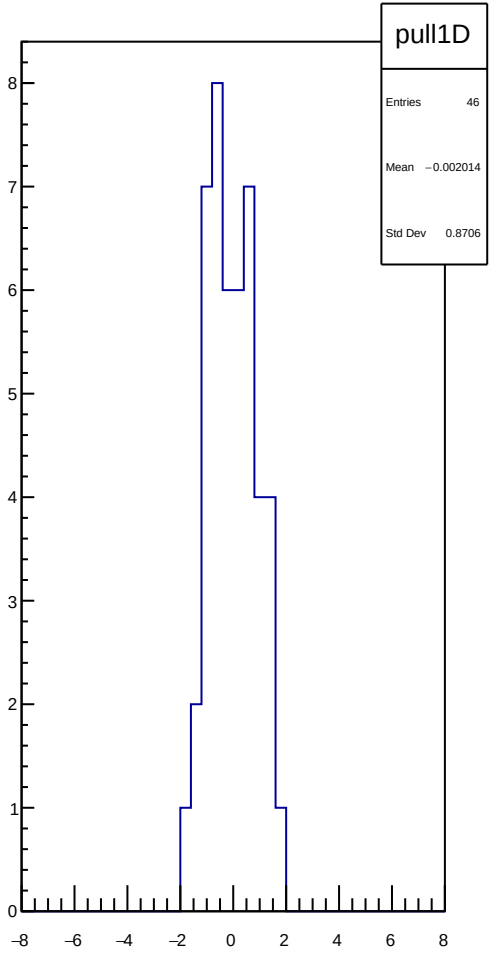

cor_sam1_mean vs run
χ² / ndf 35.57 / 45
p0 −459.8 ± 582.6
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −120.2
Std Dev 147.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.01388
Std Dev 0.8793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

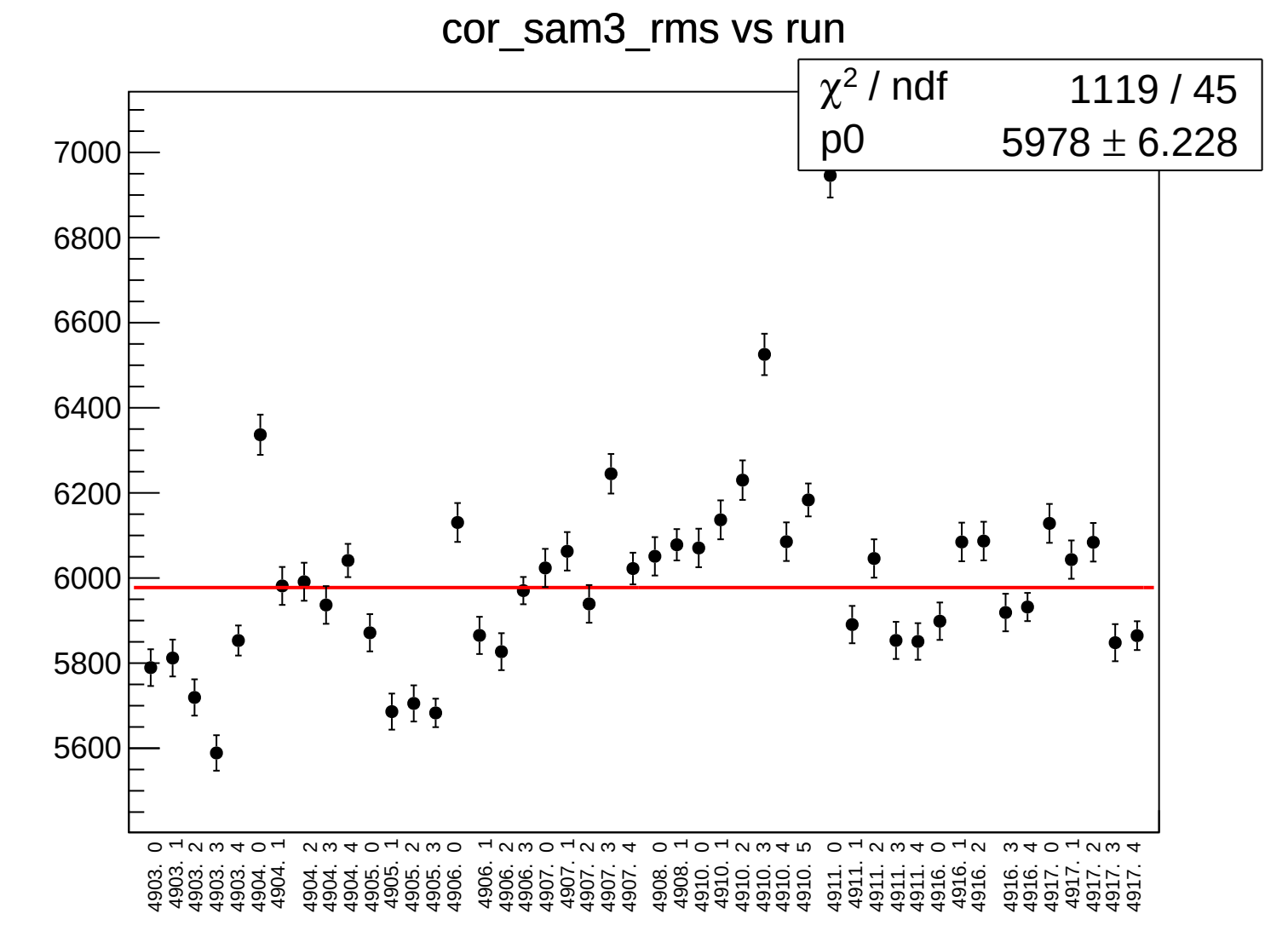

cor_sam1_rms vs run
χ² / ndf 1230 / 45
p0 395.4 ± 0.412
430
420
410
400
390
380
370
360
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

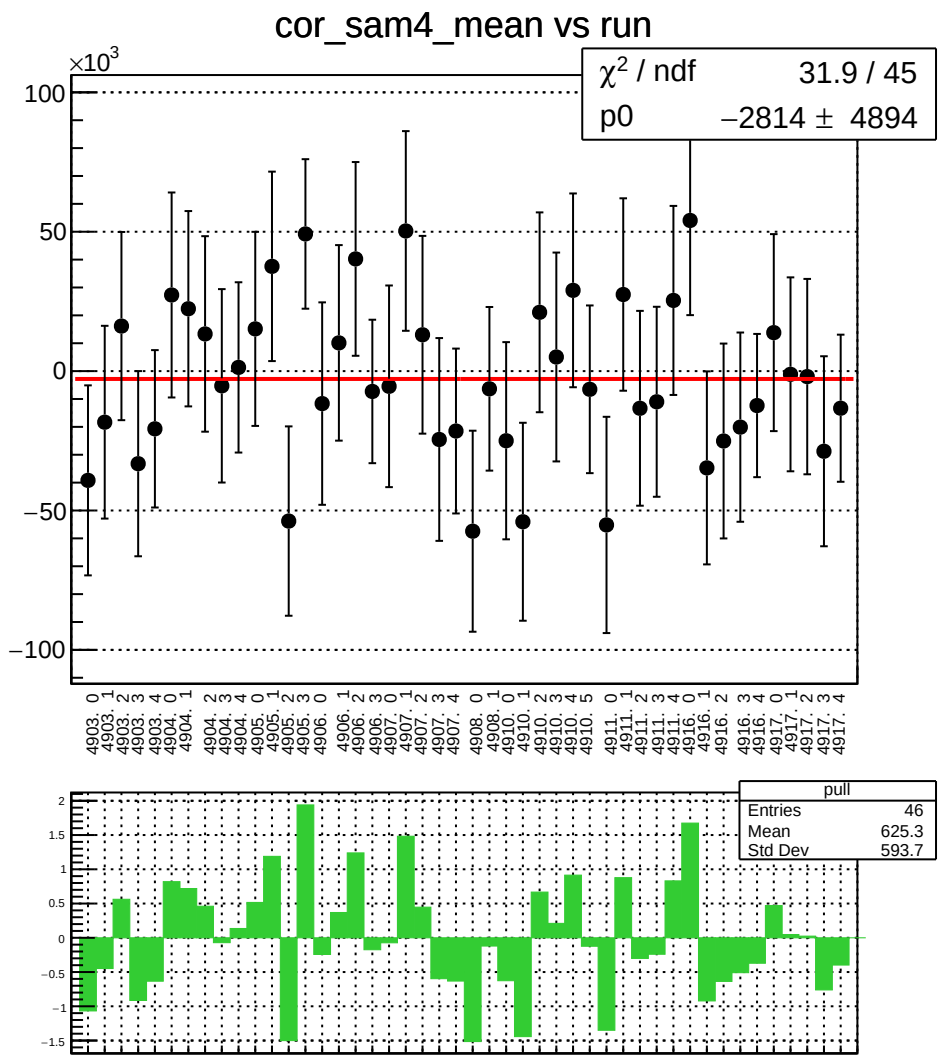

cor_sam2_mean vs run
×10^3
χ² / ndf 32.62 / 45
p0 −8264 ± 6446
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 123.4
Std Dev 95.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01103
Std Dev 0.8421
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

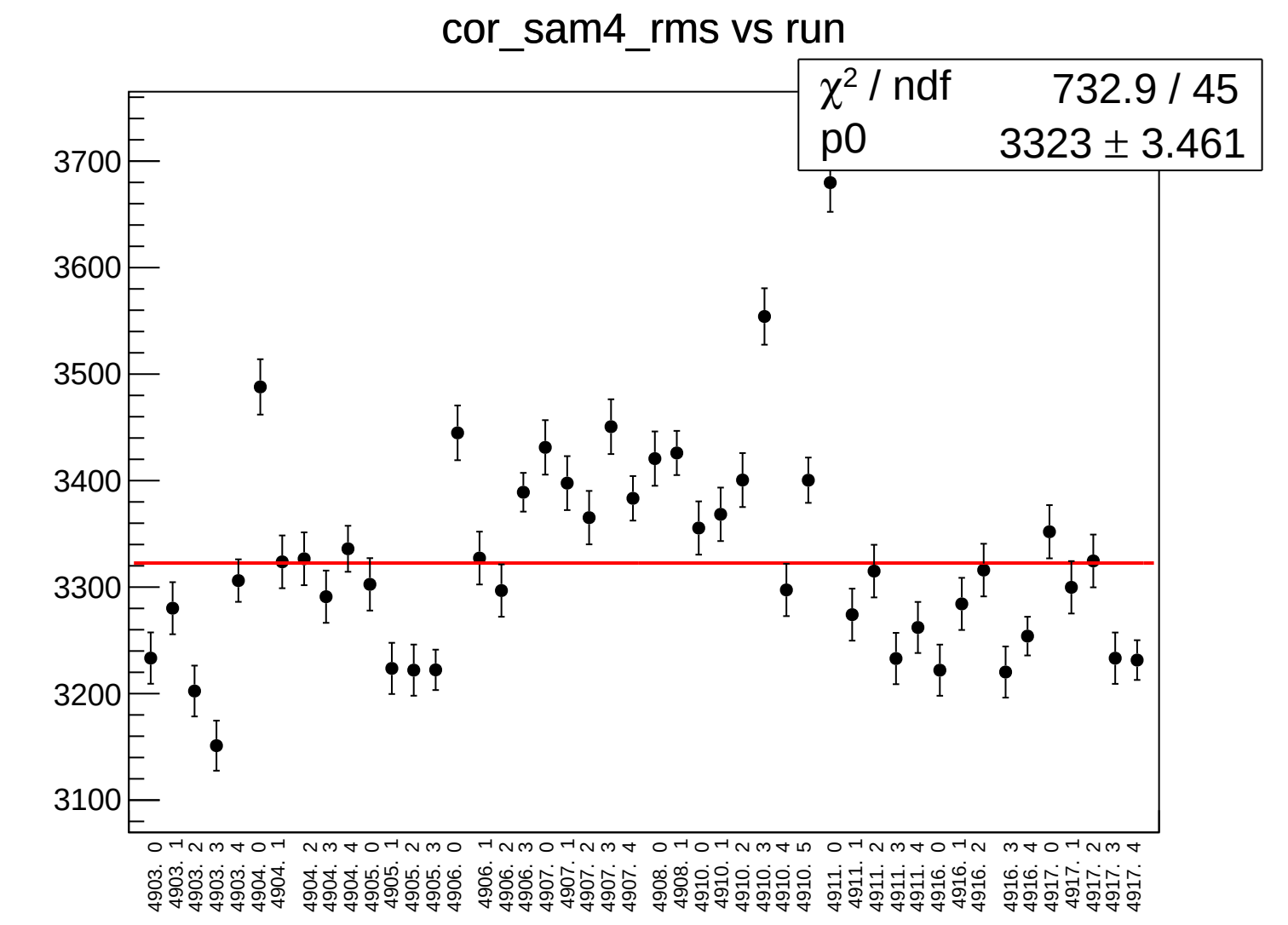

cor_sam2_rms vs run
χ² / ndf 1454 / 45
p0 4374 ± 4.558
5200
5000
4800
4600
4400
4200
4000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

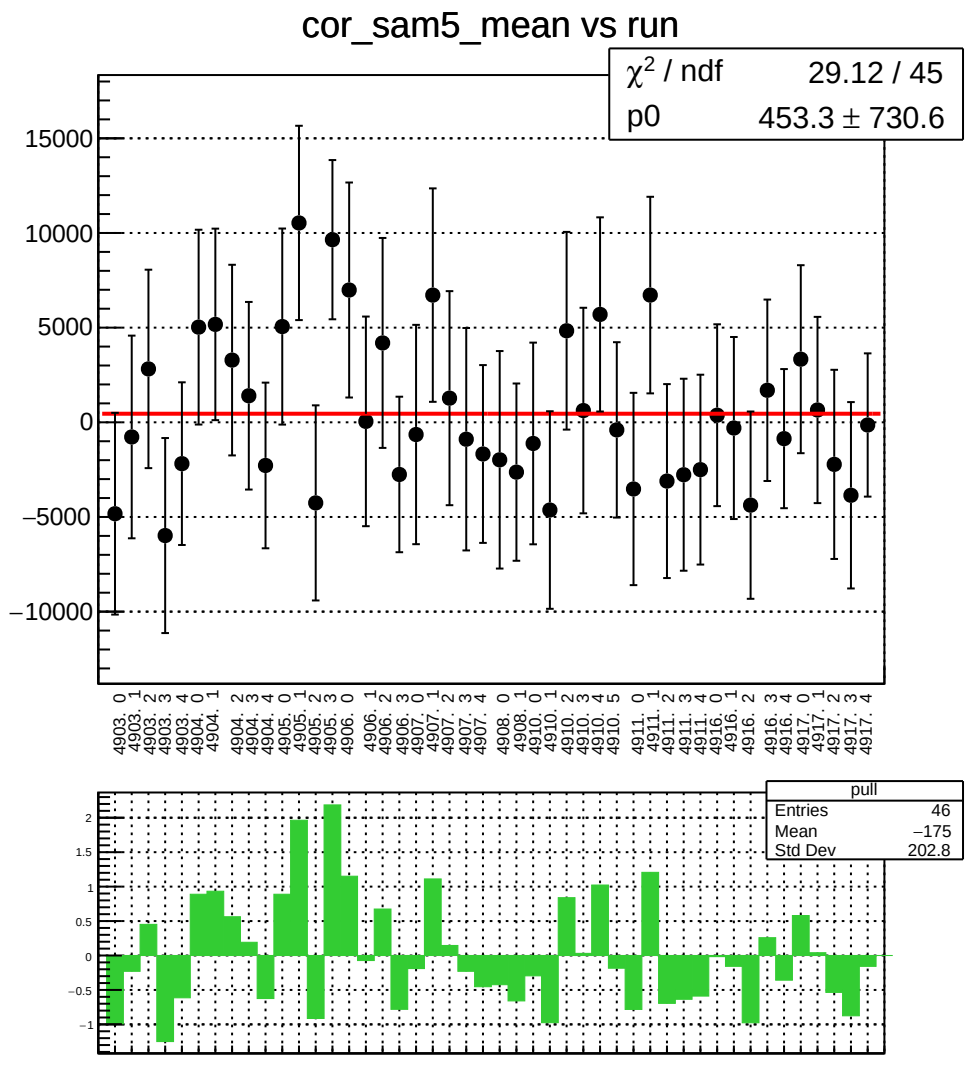

cor_sam3_mean vs run
×10^3
χ² / ndf 34.86 / 45
p0 −3917 ± 8807
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 1197
Std Dev 1173
1.5
1
0.5
0
−0.5
−1
−1.5
−2

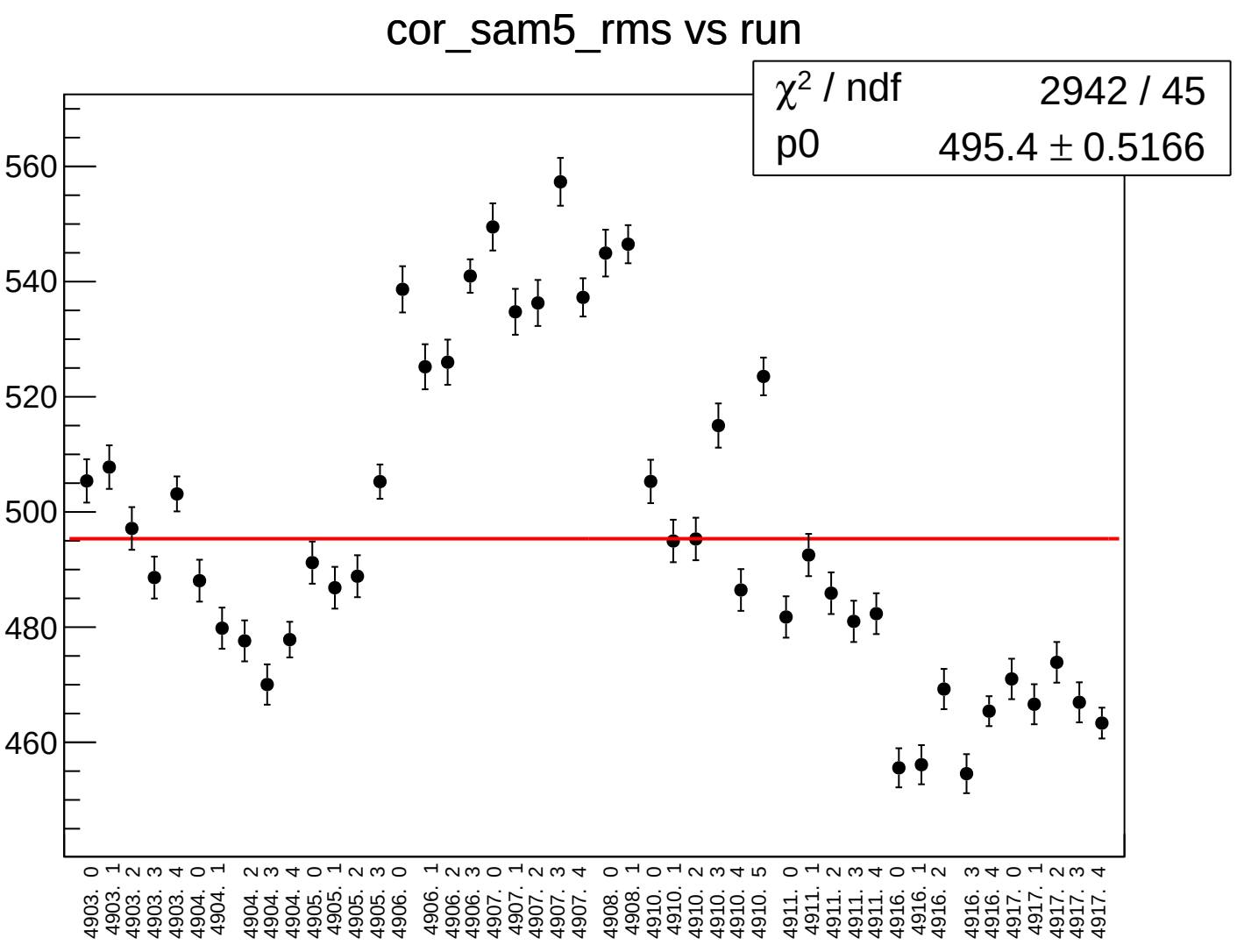

pull1D
Entries 46
Mean −0.002014
Std Dev 0.8706
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

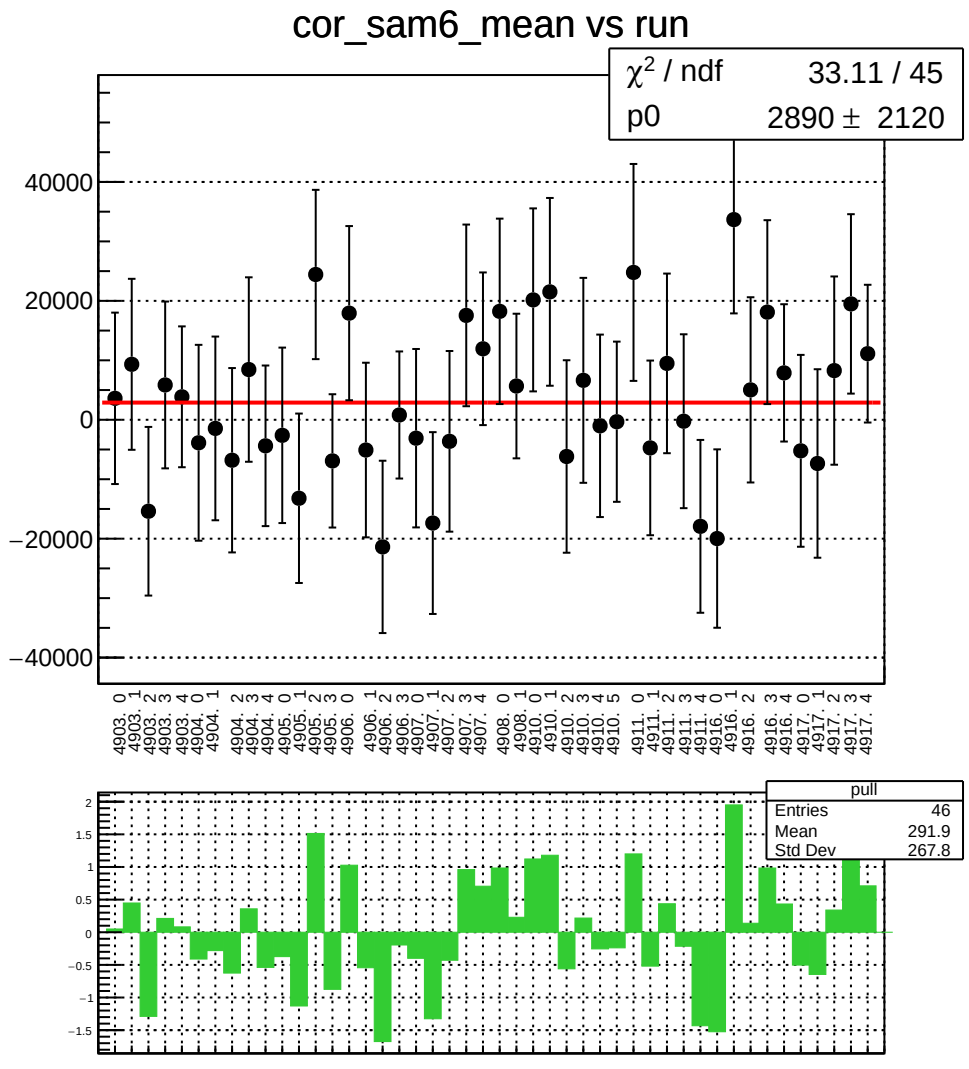

cor_sam3_rms vs run
χ^2 / ndf 1119 / 45
p0 5978 ± 6.228
7000
6800
6600
6400
6200
6000
5800
5600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

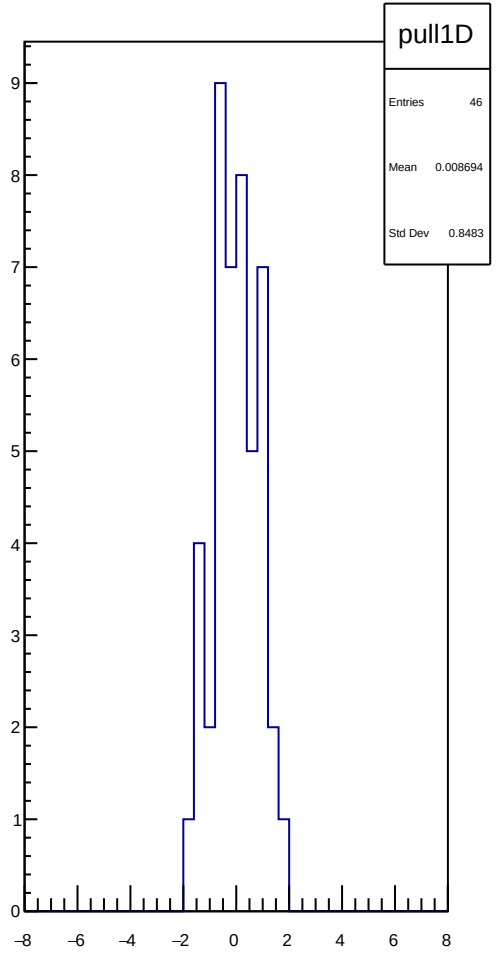

cor_sam4_mean vs run
×10^3
χ² / ndf 31.9 / 45
p0 −2814 ± 4894
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 625.3
Std Dev 593.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.001645
Std Dev 0.8328
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

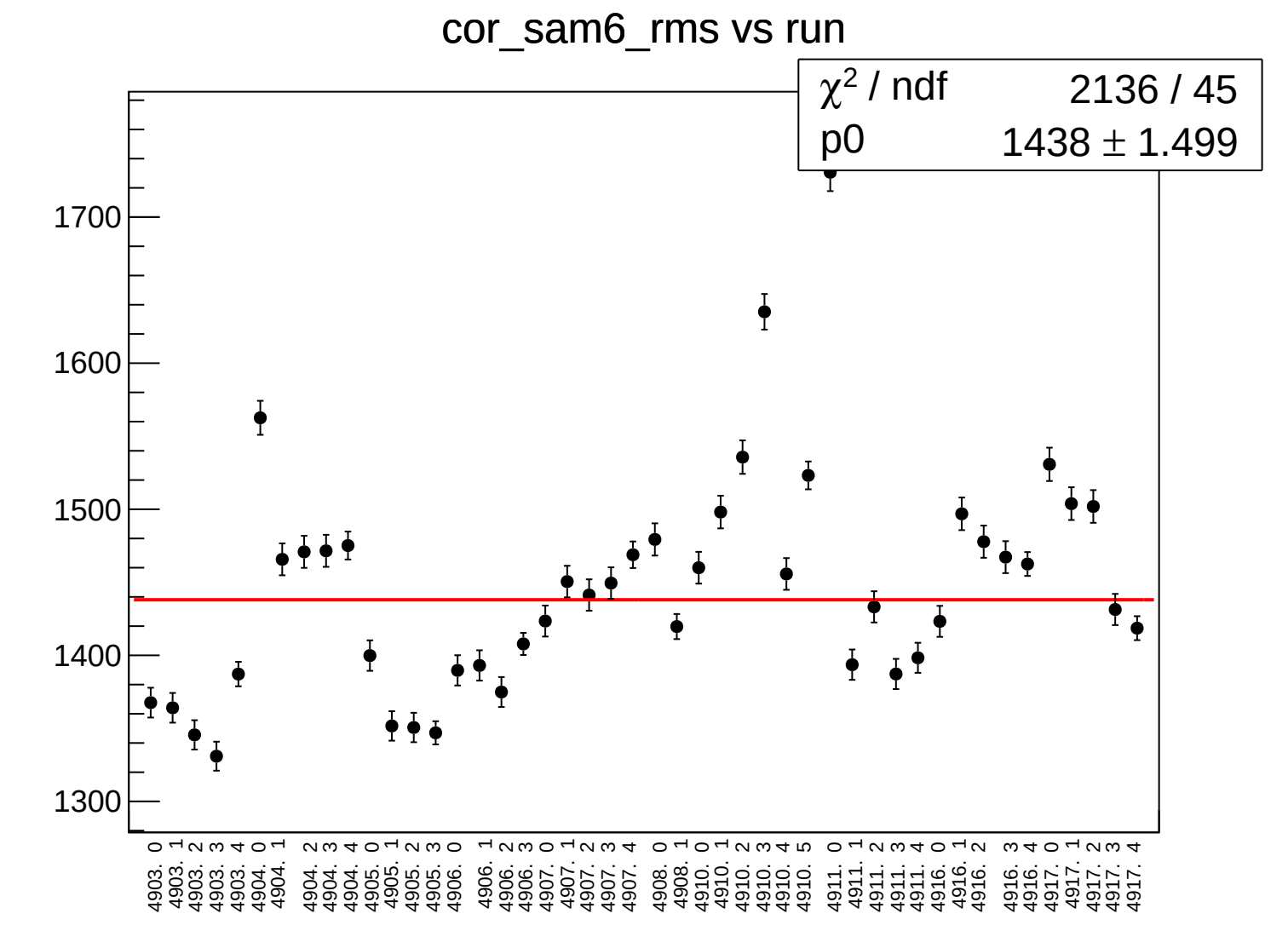

cor_sam4_rms vs run
χ² / ndf 732.9 / 45
p0 3323 ± 3.461
3700
3600
3500
3400
3300
3200
3100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

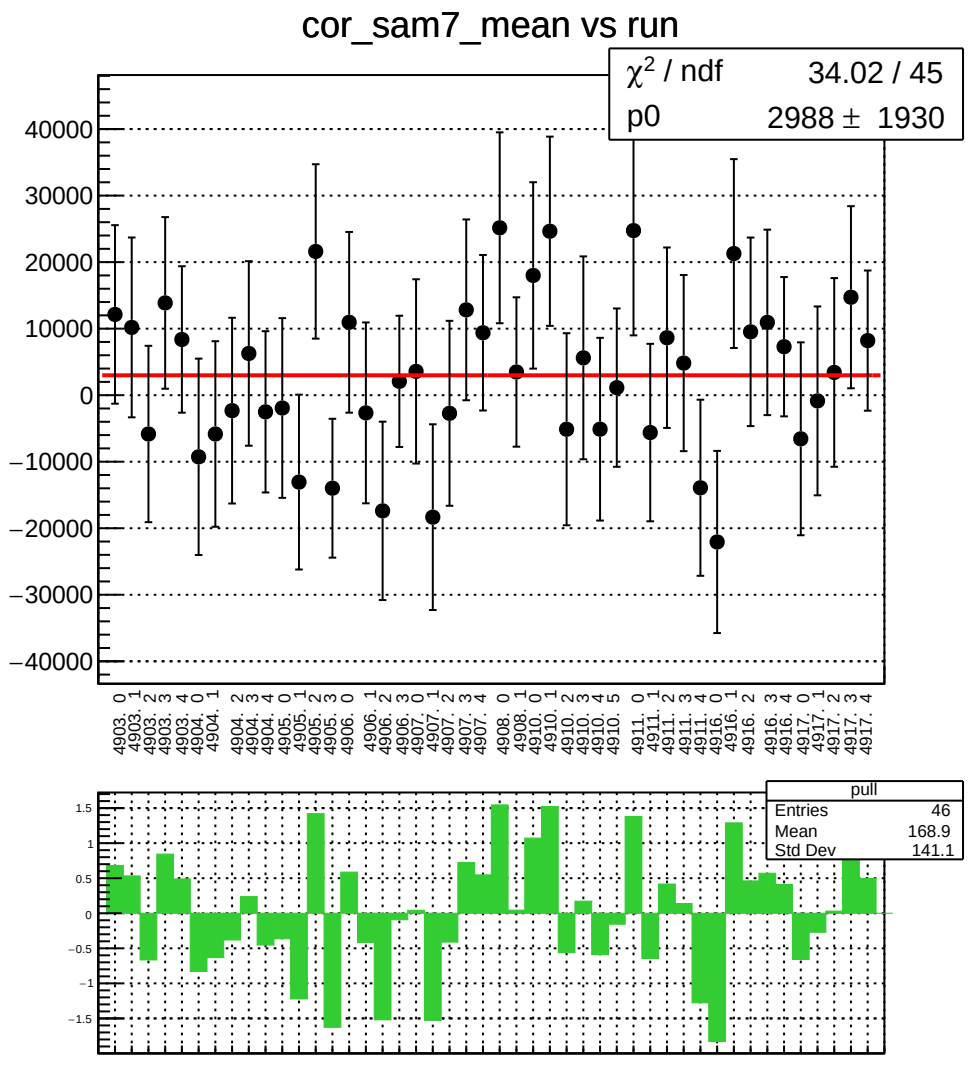

cor_sam5_mean vs run
χ² / ndf 29.12 / 45
p0 453.3 ± 730.6
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −175
Std Dev 202.8
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.01011
Std Dev 0.7955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

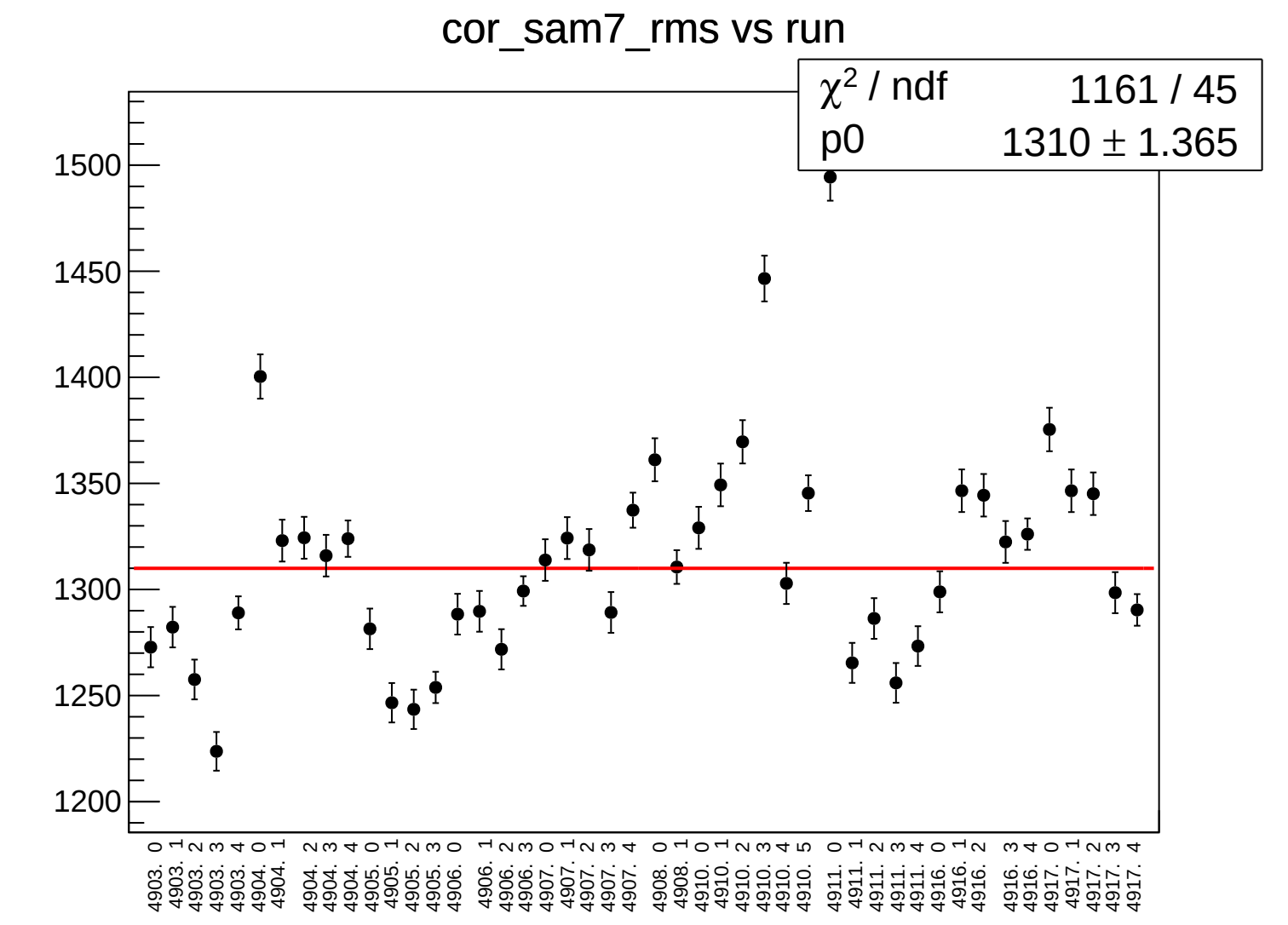

cor_sam5_rms vs run
χ² / ndf 2942 / 45
p0 495.4 ± 0.5166
560
540
520
500
480
460
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

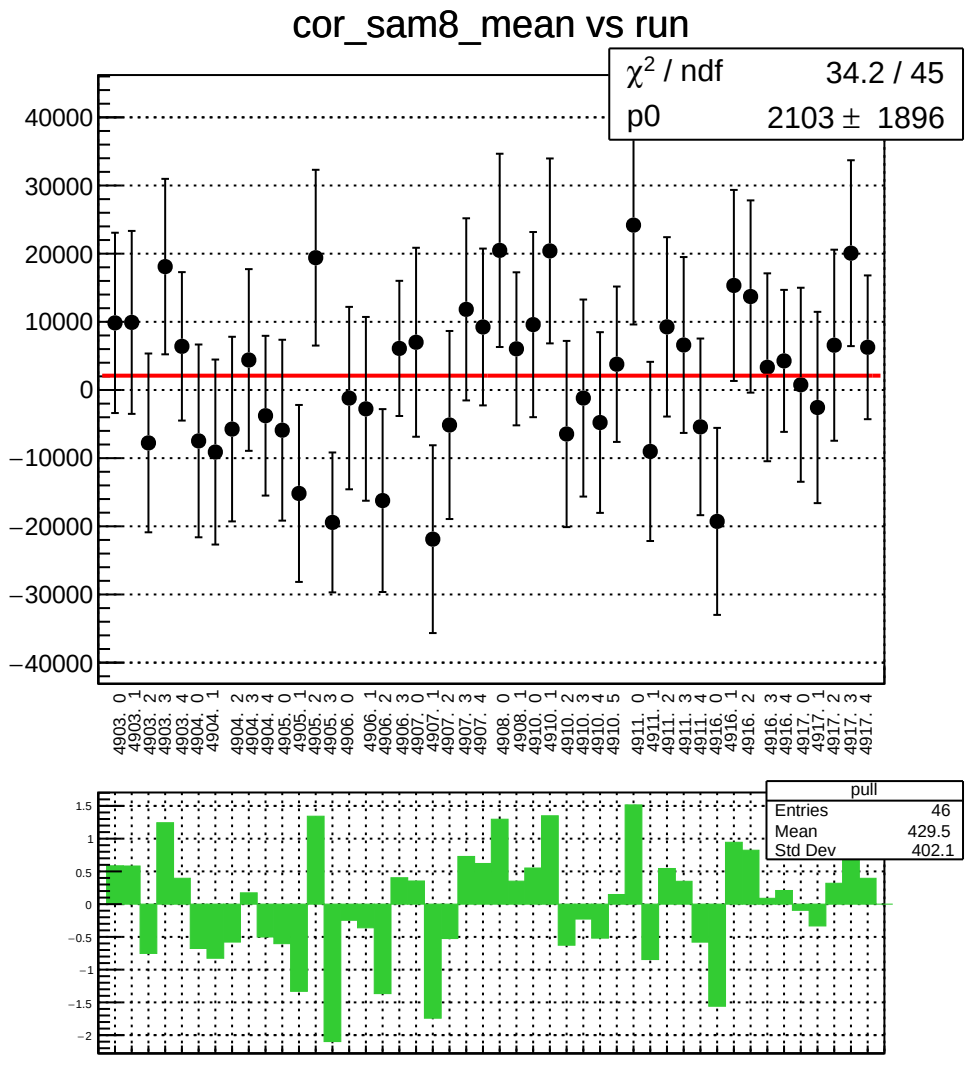

cor_sam6_mean vs run
χ² / ndf 33.11 / 45
p0 2890 ± 2120
40000
20000
0
−20000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 291.9
Std Dev 267.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

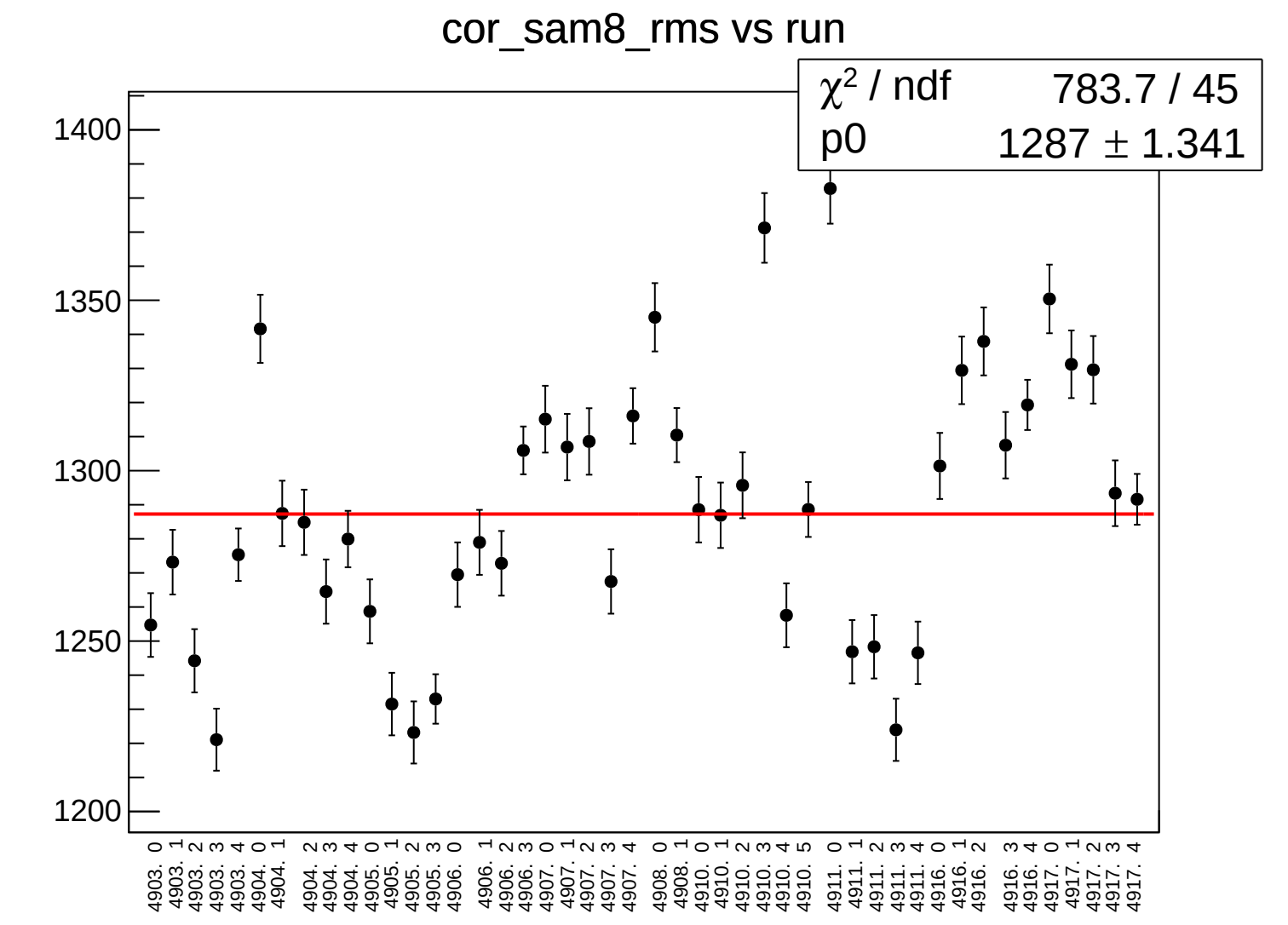

pull1D
Entries 46
Mean 0.008694
Std Dev 0.8483
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

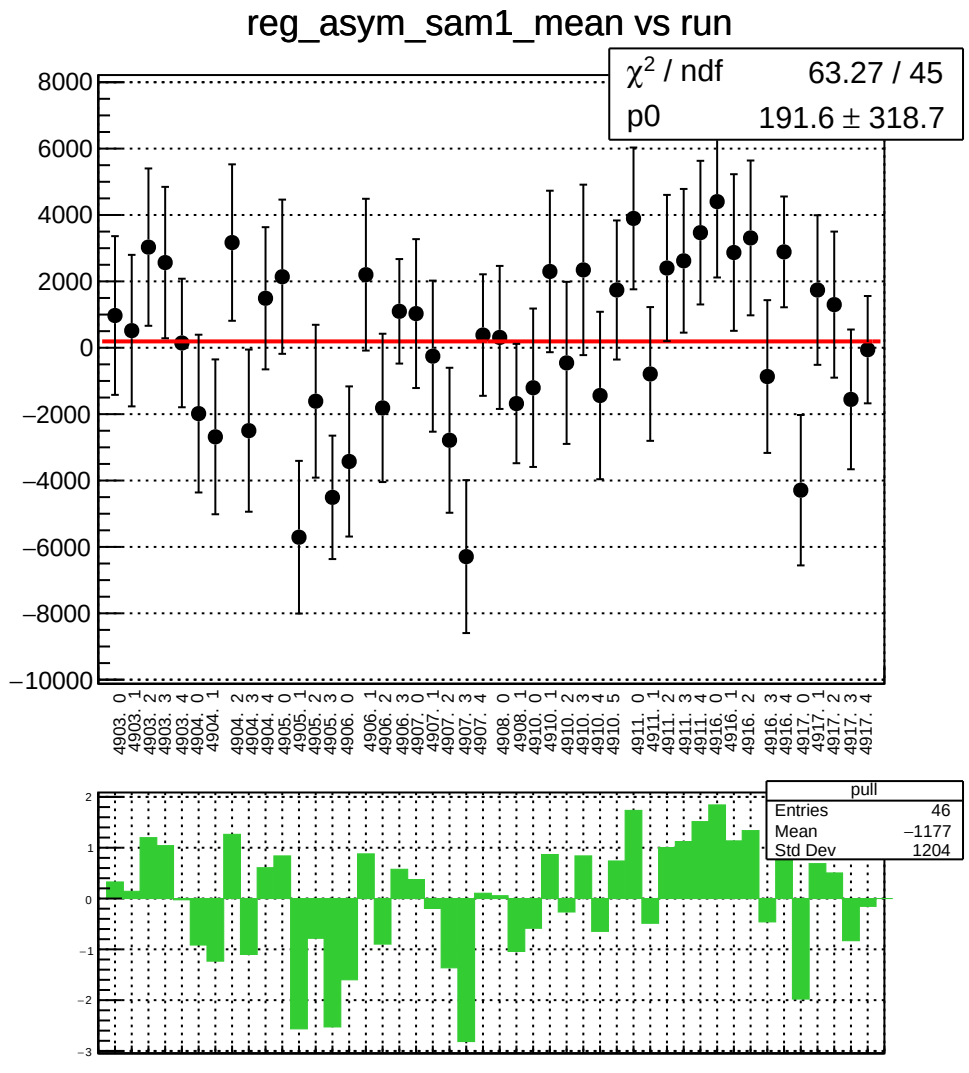

cor_sam6_rms vs run
χ² / ndf 2136 / 45
p0 1438 ± 1.499
1700
1600
1500
1400
1300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

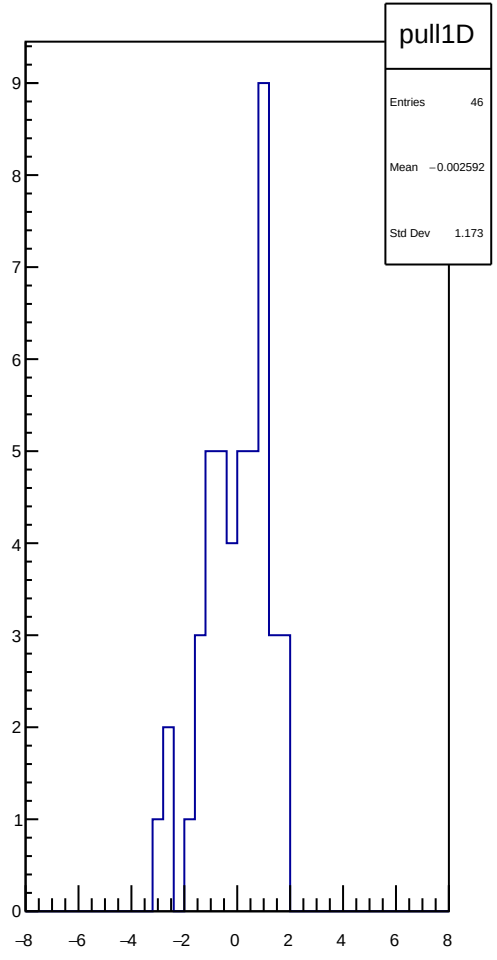

cor_sam7_mean vs run
χ² / ndf 34.02 / 45
p0 2988 ± 1930
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 168.9
Std Dev 141.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.008298
Std Dev 0.8599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

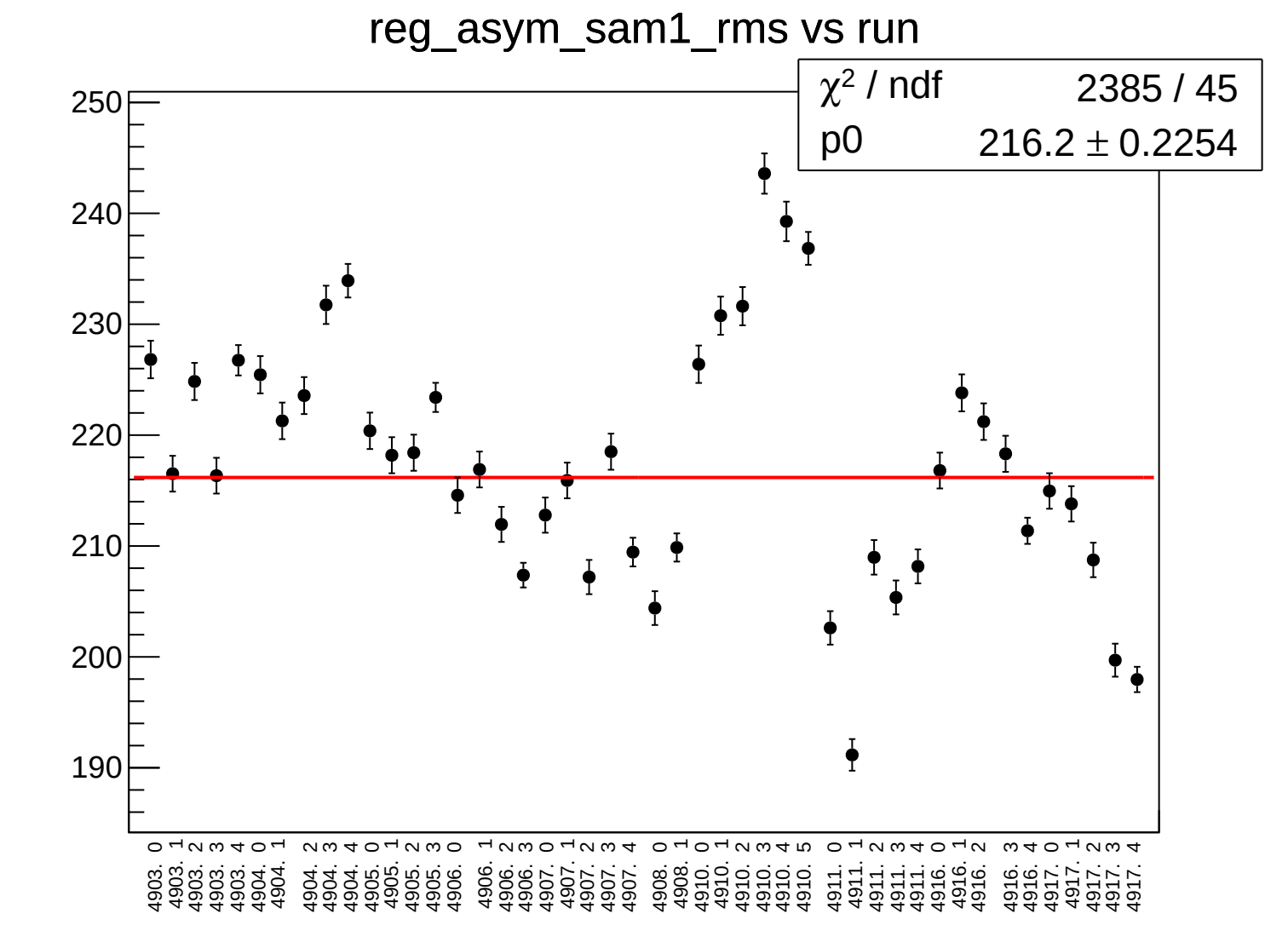

cor_sam7_rms vs run
χ² / ndf 1161 / 45
p0 1310 ± 1.365
1500
1450
1400
1350
1300
1250
1200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

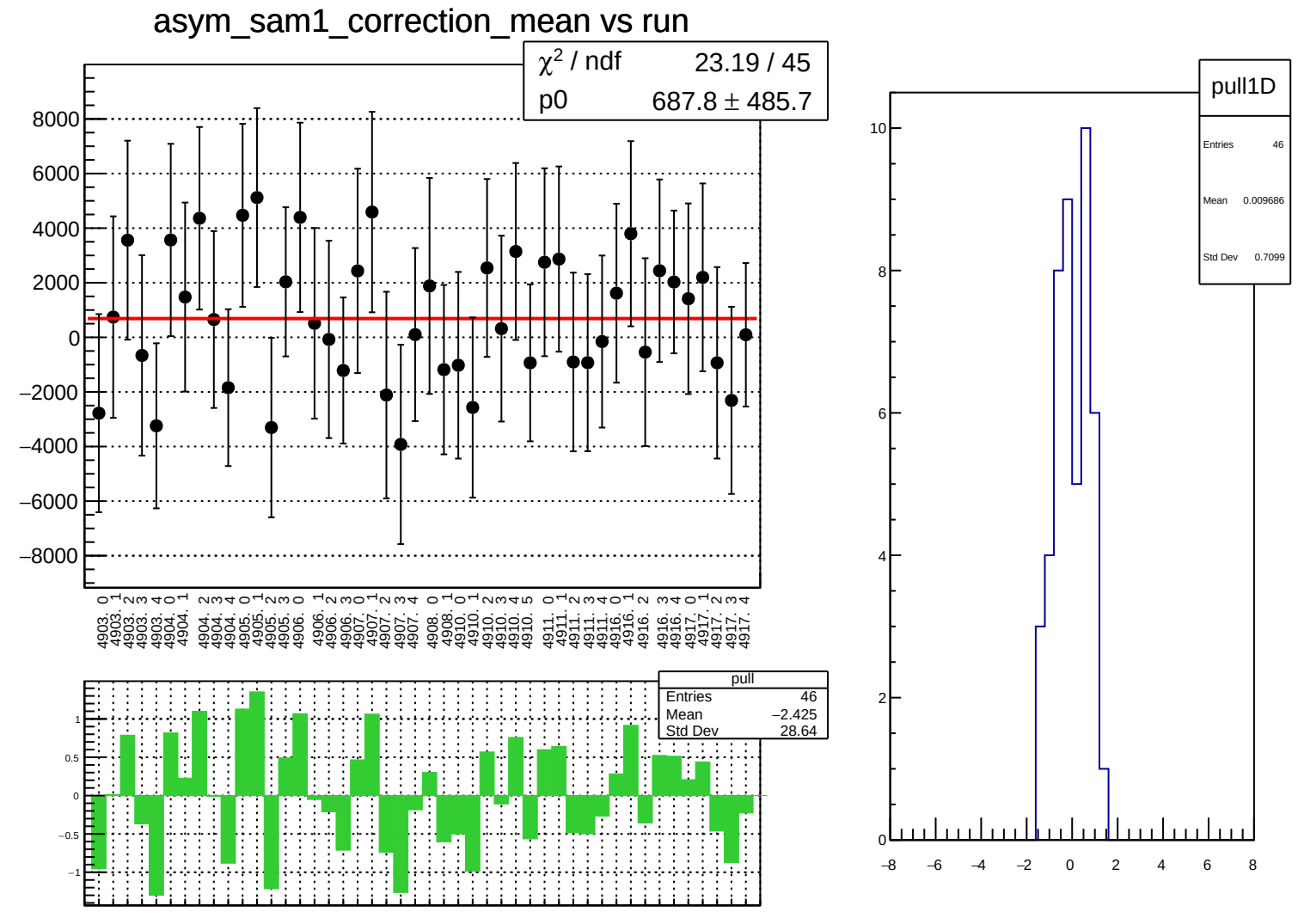

cor_sam8_mean vs run
χ² / ndf 34.2 / 45
p0 2103 ± 1896
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 429.5
Std Dev 402.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.005121
Std Dev 0.8623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

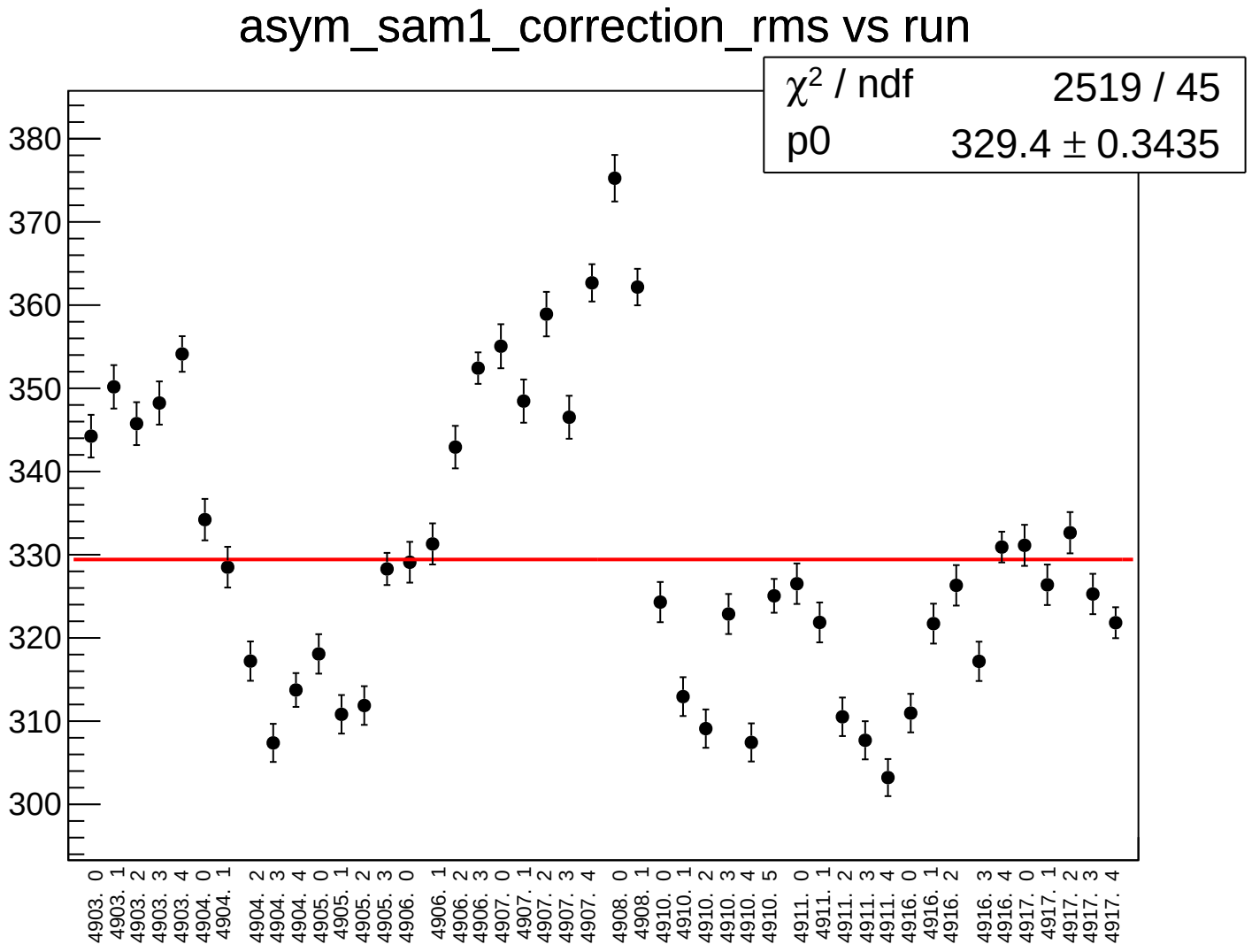

cor_sam8_rms vs run
χ² / ndf 783.7 / 45
p0 1287 ± 1.341
1400
1350
1300
1250
1200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

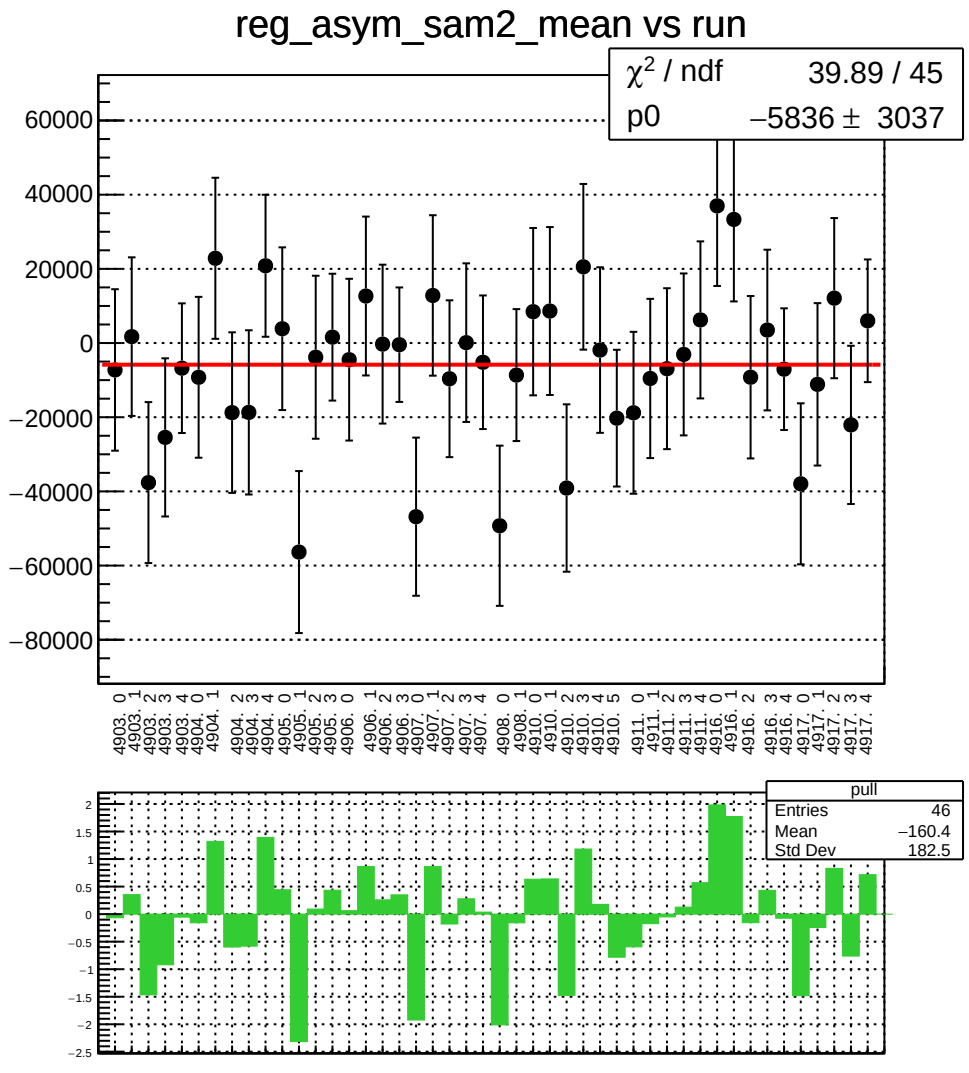

reg_asym_sam1_mean vs run
χ² / ndf 63.27 / 45
p0 191.6 ± 318.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1177
Std Dev 1204
2
1
0
−1
−2
−3

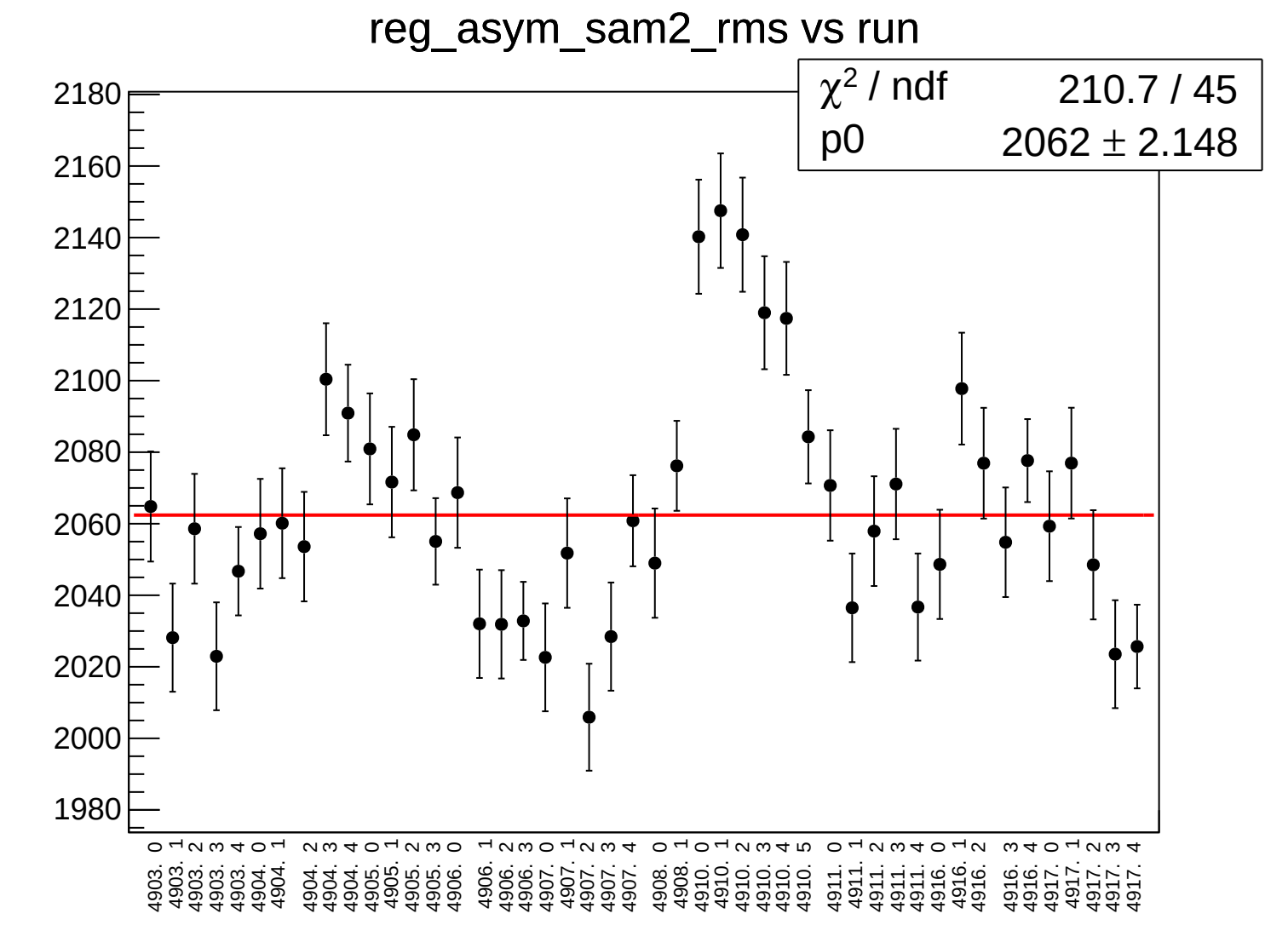

pull1D
Entries 46
Mean −0.002592
Std Dev 1.173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

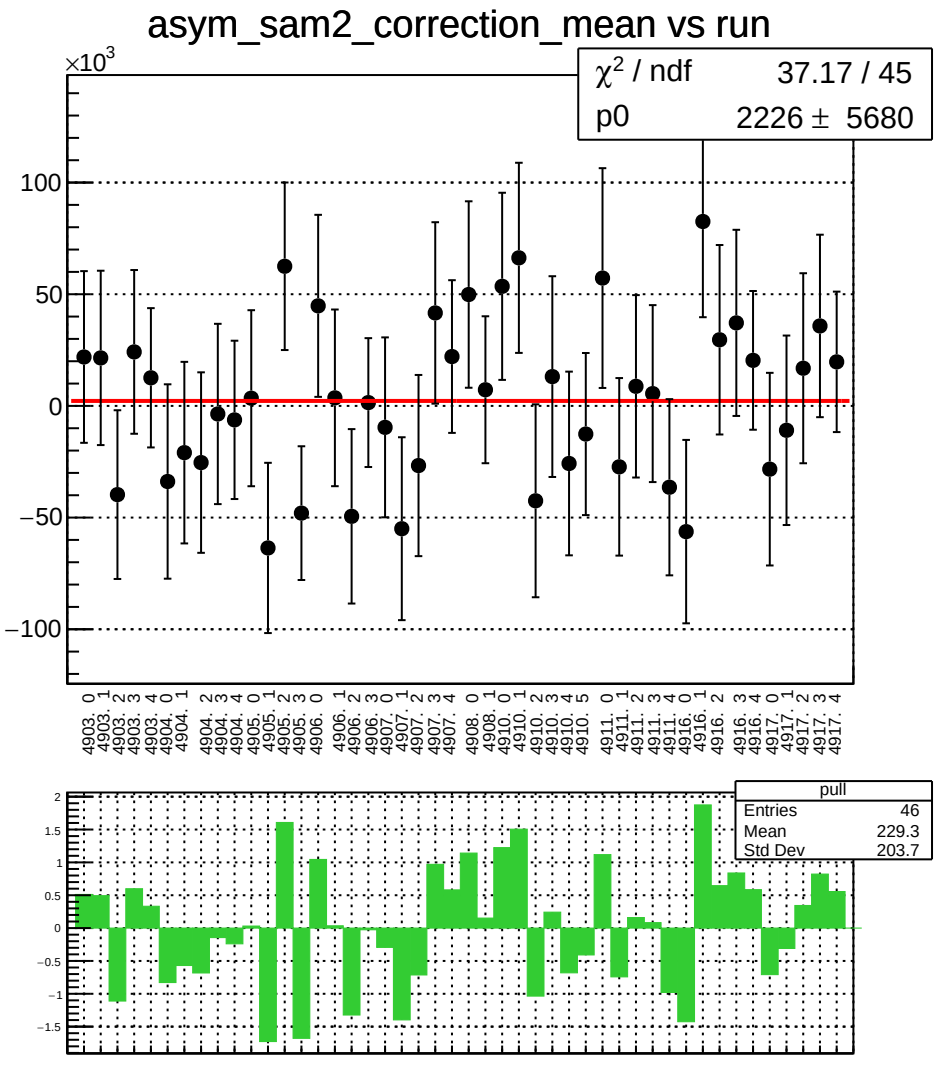

reg_asym_sam1_rms vs run
χ² / ndf 2385 / 45
p0 216.2 ± 0.2254
250
240
230
220
210
200
190
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

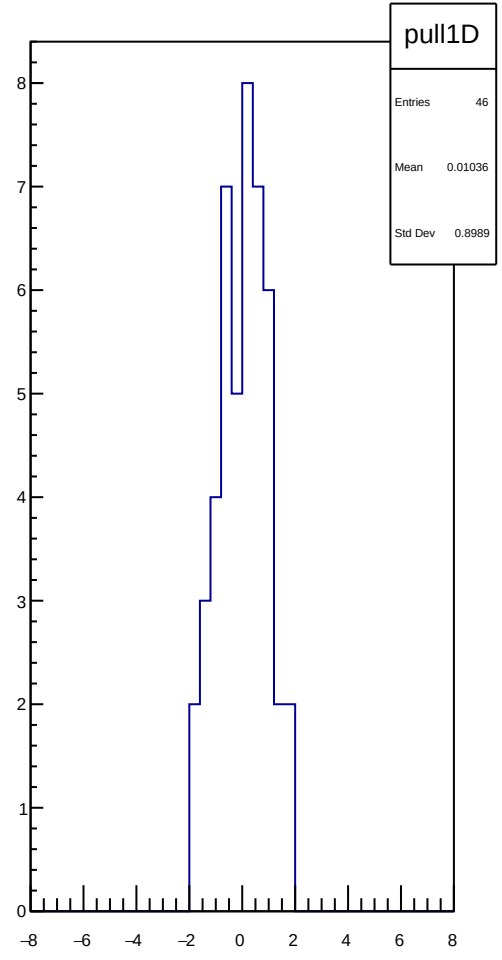

asym_sam1_correction_mean vs run
χ² / ndf 23.19 / 45
p0 687.8 ± 485.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −2.425
Std Dev 28.64
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.009686
Std Dev 0.7099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

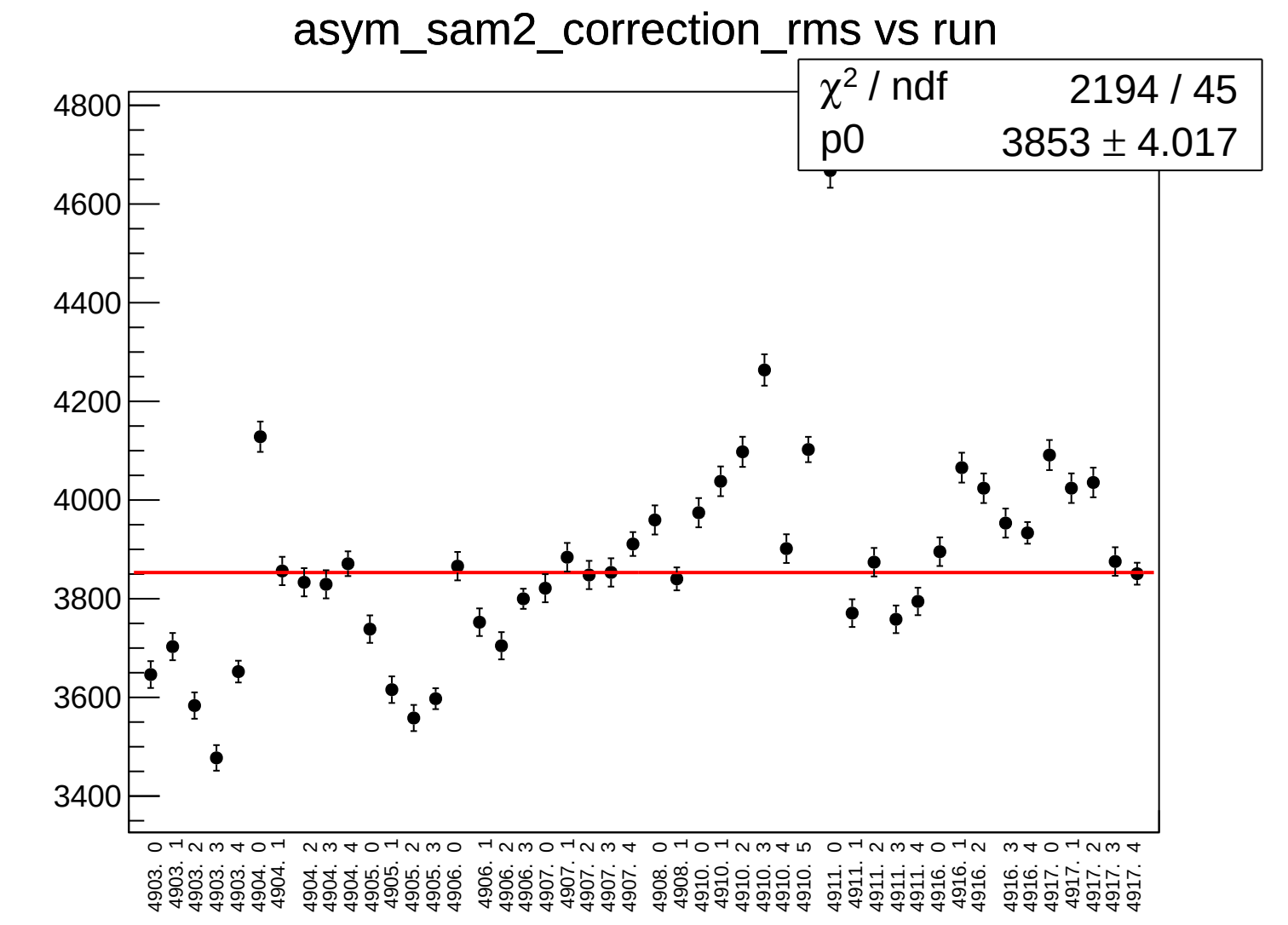

asym_sam1_correction_rms vs run
χ² / ndf 2519 / 45
p0 329.4 ± 0.3435
380
370
360
350
340
330
320
310
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

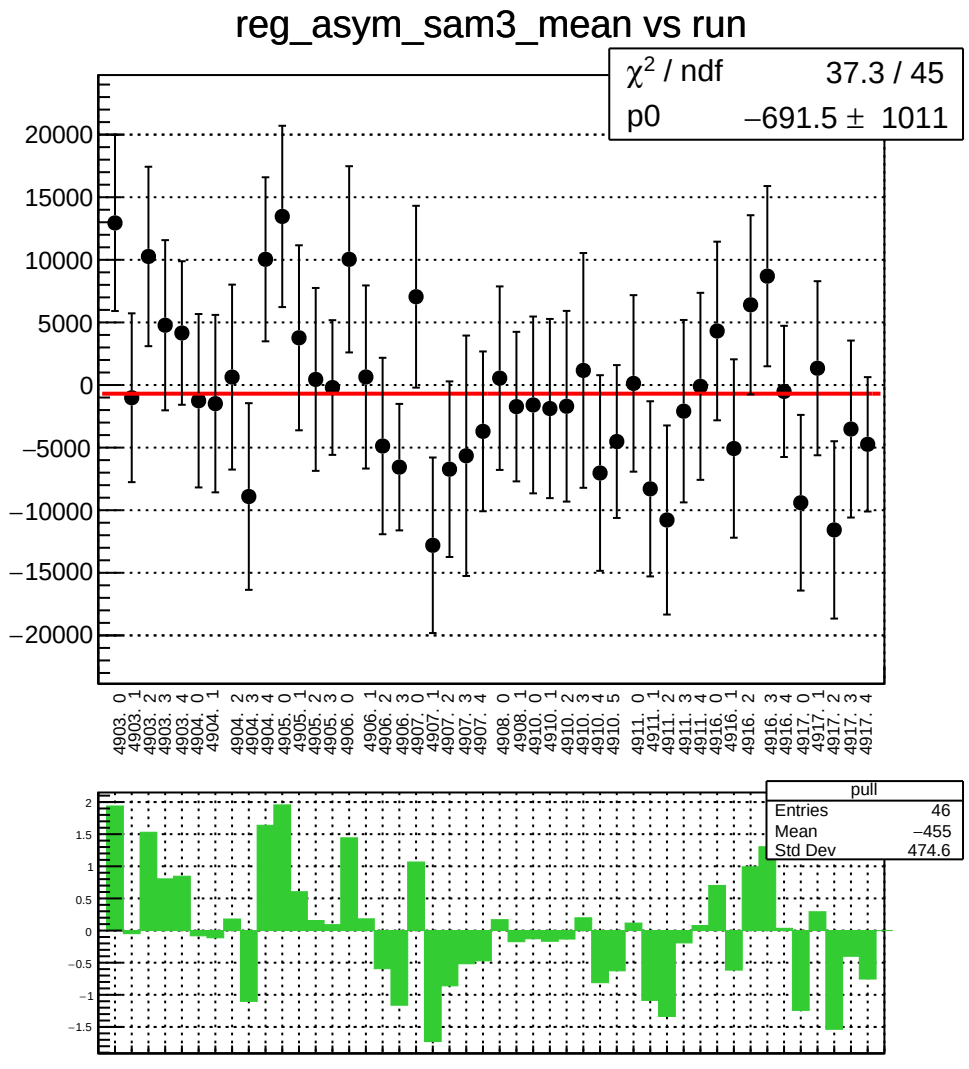

reg_asym_sam2_mean vs run
χ² / ndf 39.89 / 45
p0 −5836 ± 3037
60000
40000
20000
0
−20000
−40000
−60000
−80000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −160.4
Std Dev 182.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.008691
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

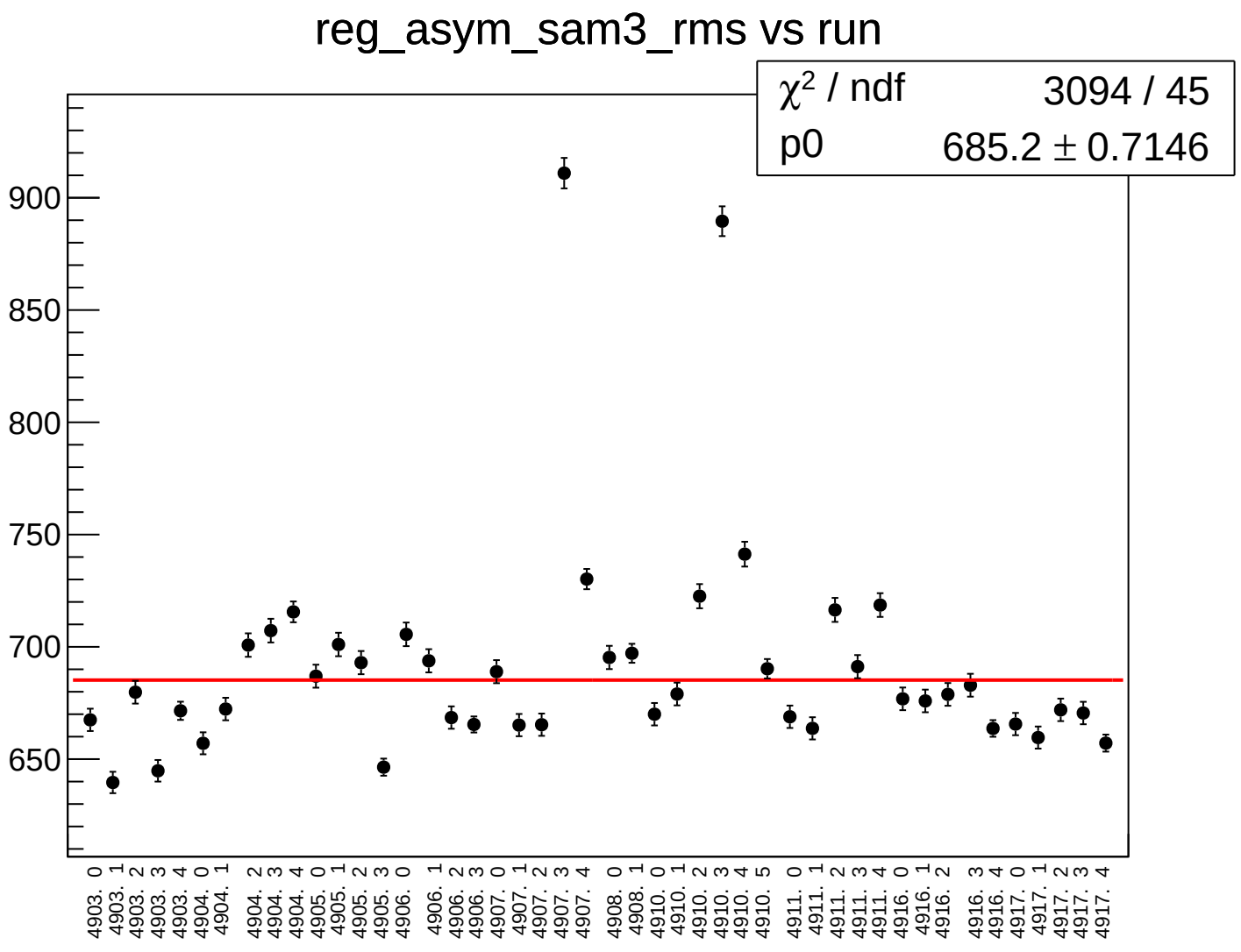

reg_asym_sam2_rms vs run
χ² / ndf 210.7 / 45
p0 2062 ± 2.148
2180
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

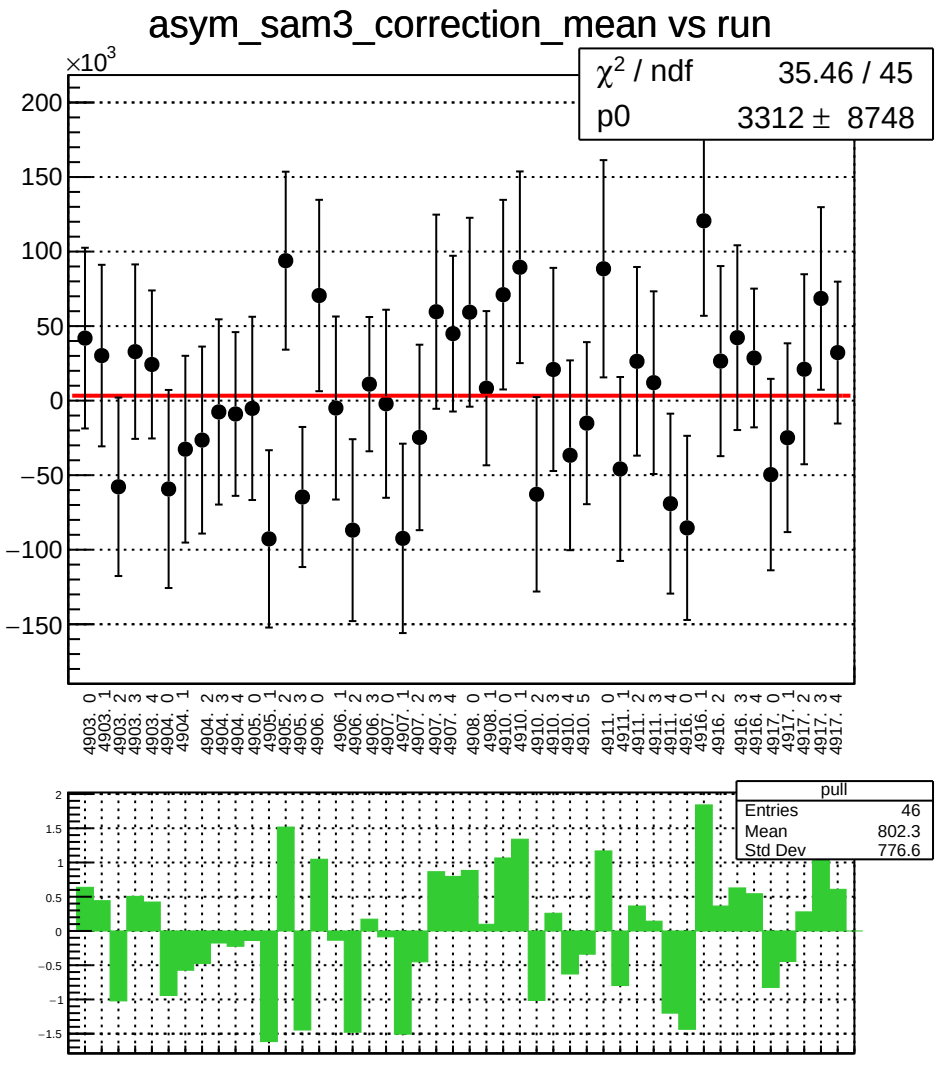

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 37.17 / 45
p0 2226 ± 5680
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 229.3
Std Dev 203.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

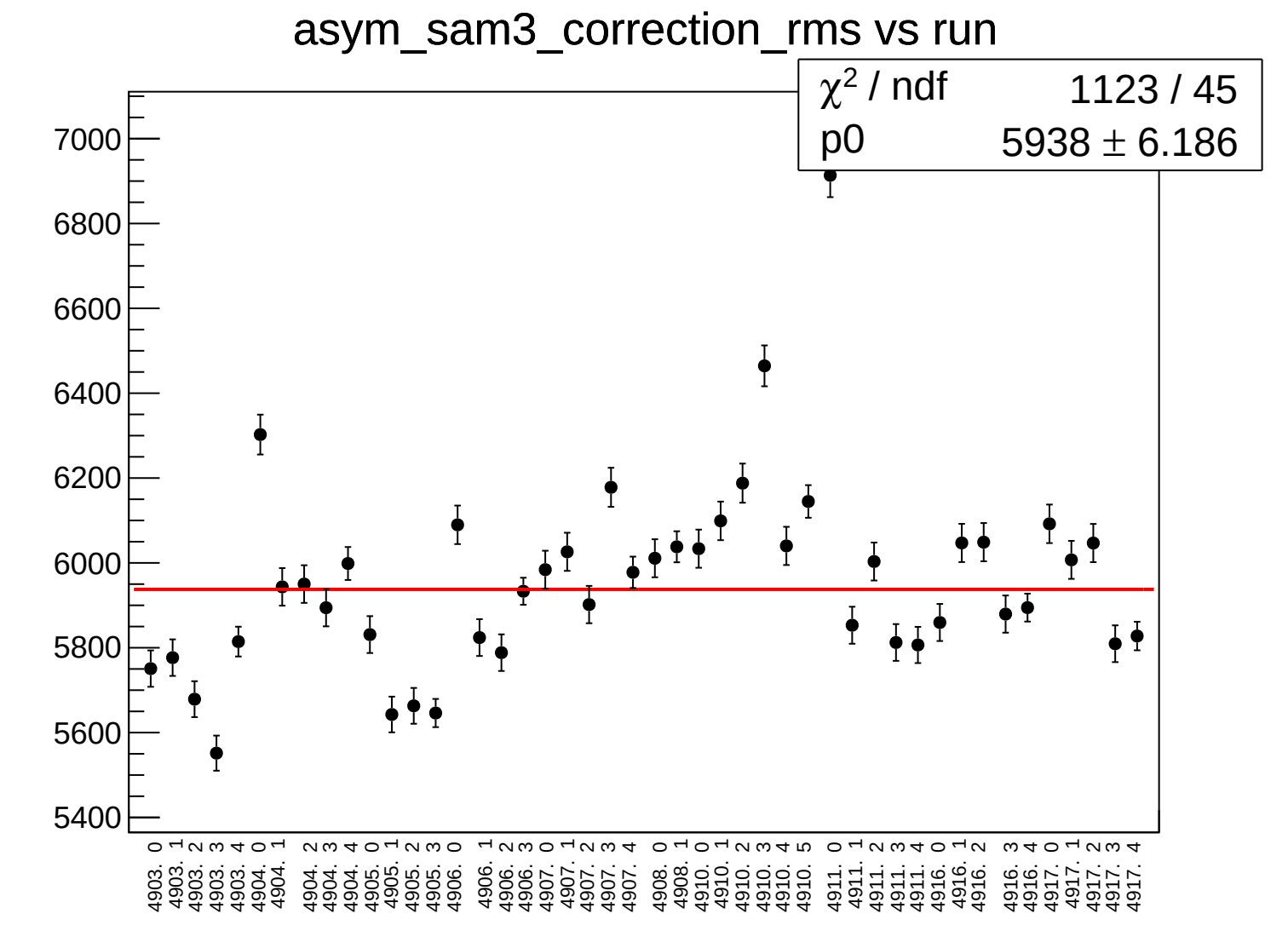

pull1D
Entries 46
Mean 0.01036
Std Dev 0.8989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

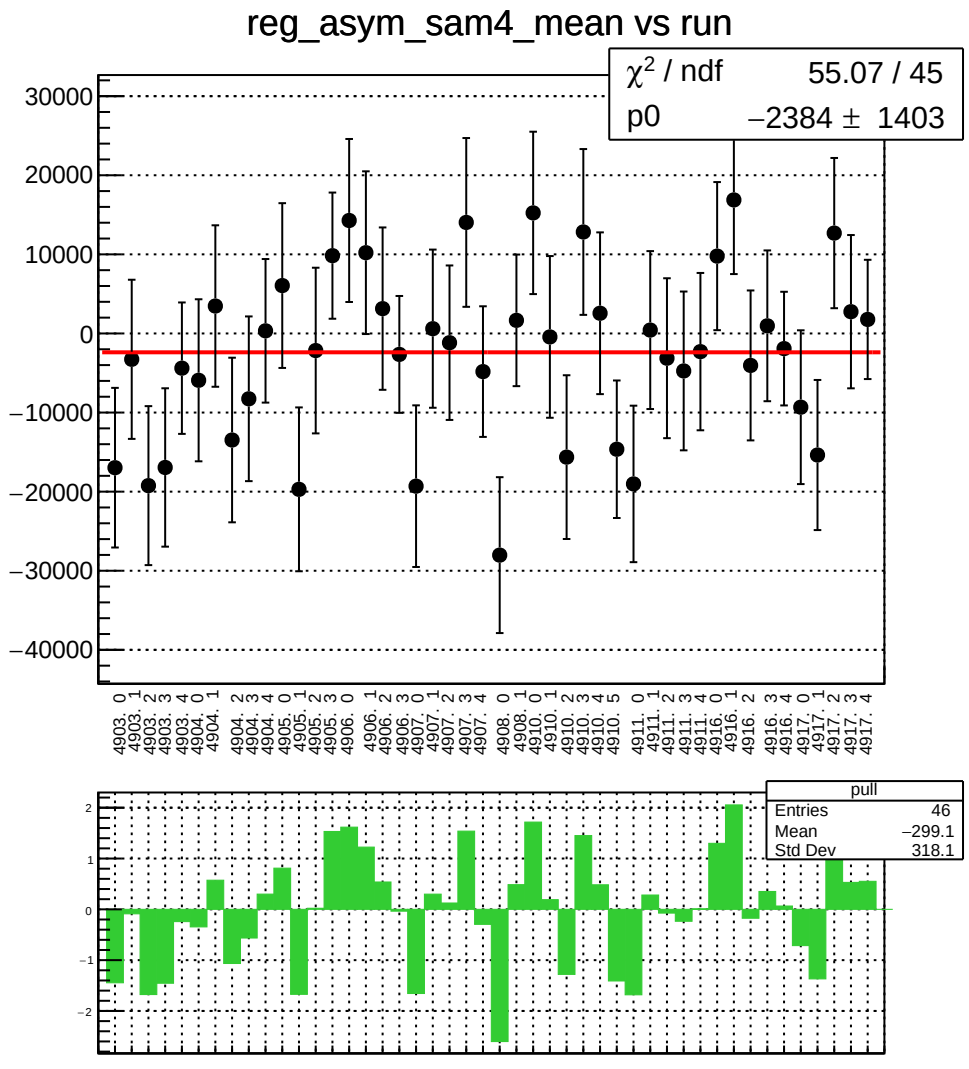

asym_sam2_correction_rms vs run
χ² / ndf 2194 / 45
p0 3853 ± 4.017
4800
4600
4400
4200
4000
3800
3600
3400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

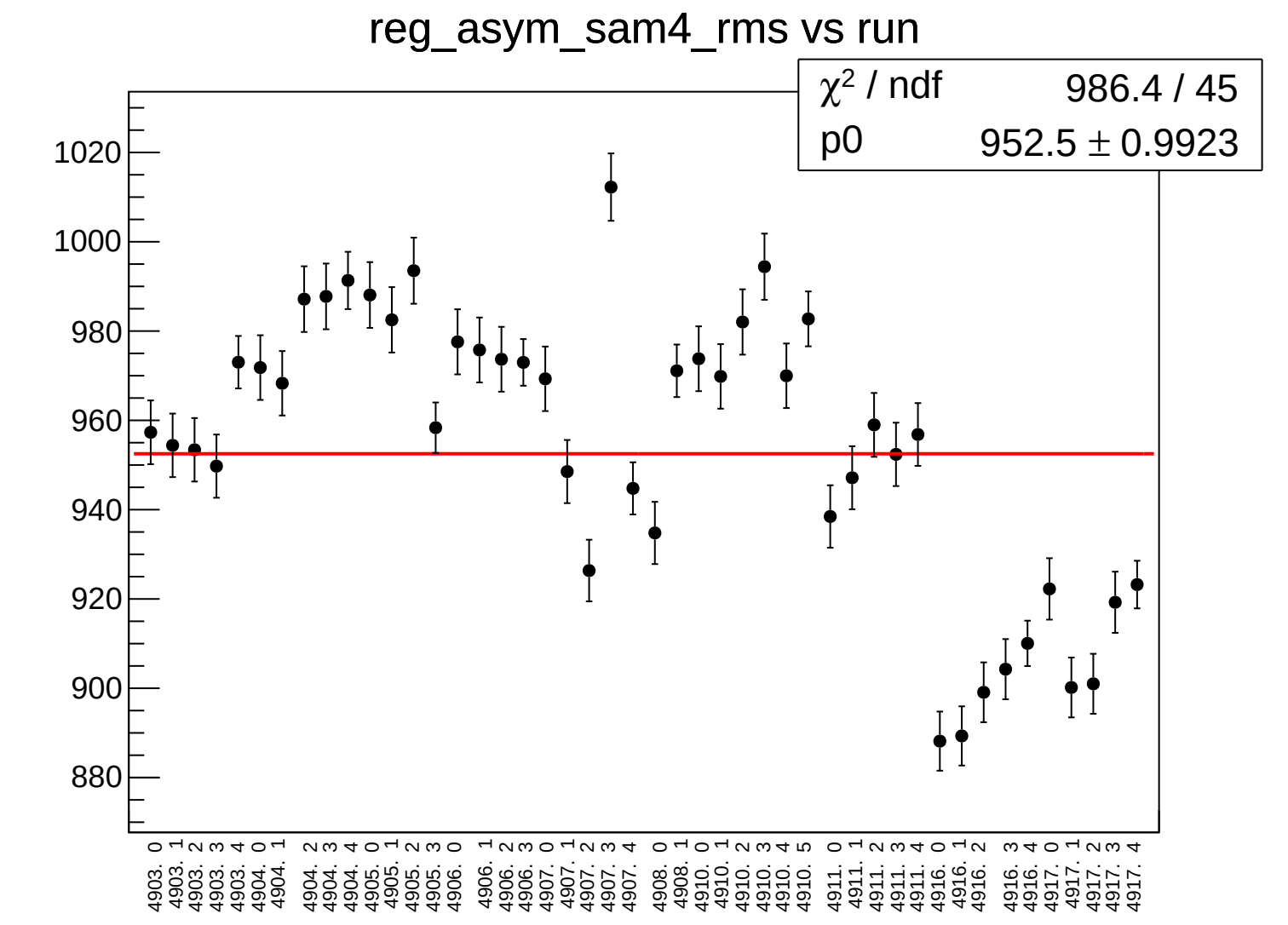

reg_asym_sam3_mean vs run
χ² / ndf 37.3 / 45
p0 −691.5 ± 1011
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −455
Std Dev 474.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.009785
Std Dev 0.9004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

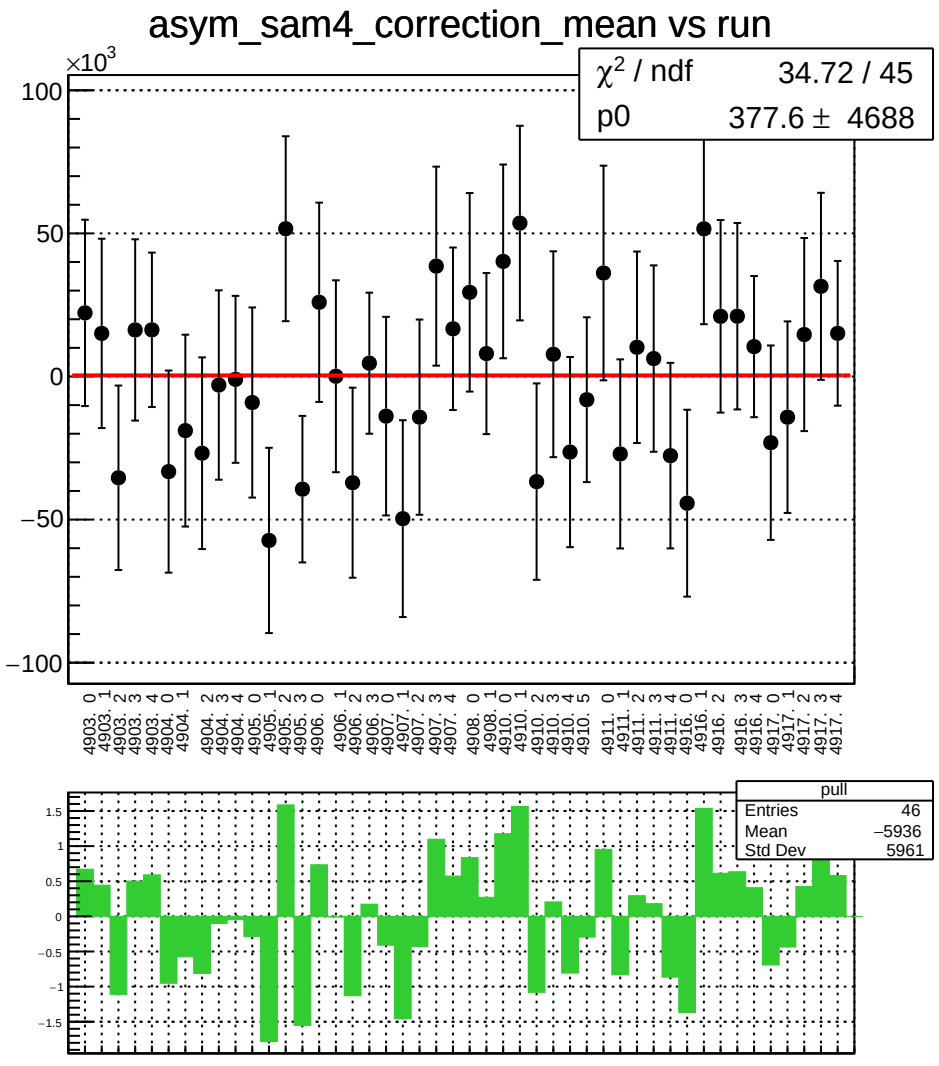

reg_asym_sam3_rms vs run
χ² / ndf 3094 / 45
p0 685.2 ± 0.7146
900
850
800
750
700
650
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

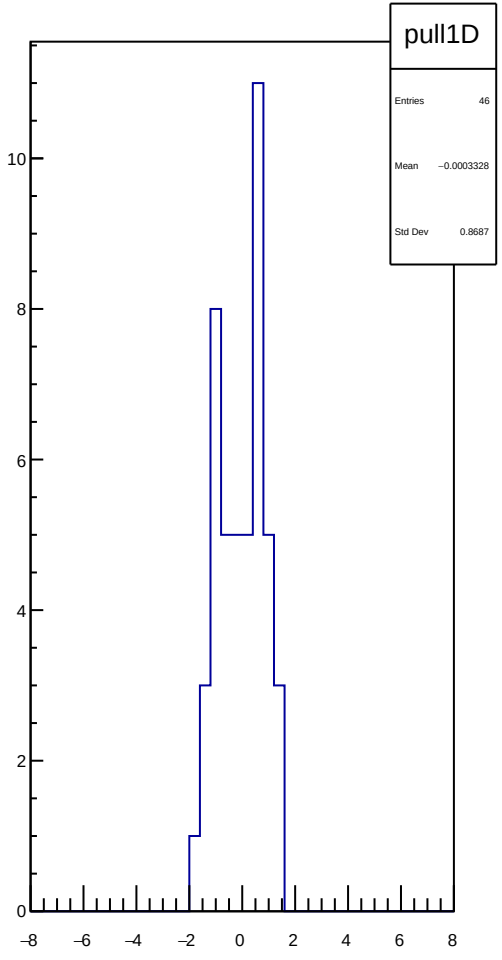

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 35.46 / 45
p0 3312 ± 8748
200
150
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 802.3
Std Dev 776.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.002356
Std Dev 0.878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

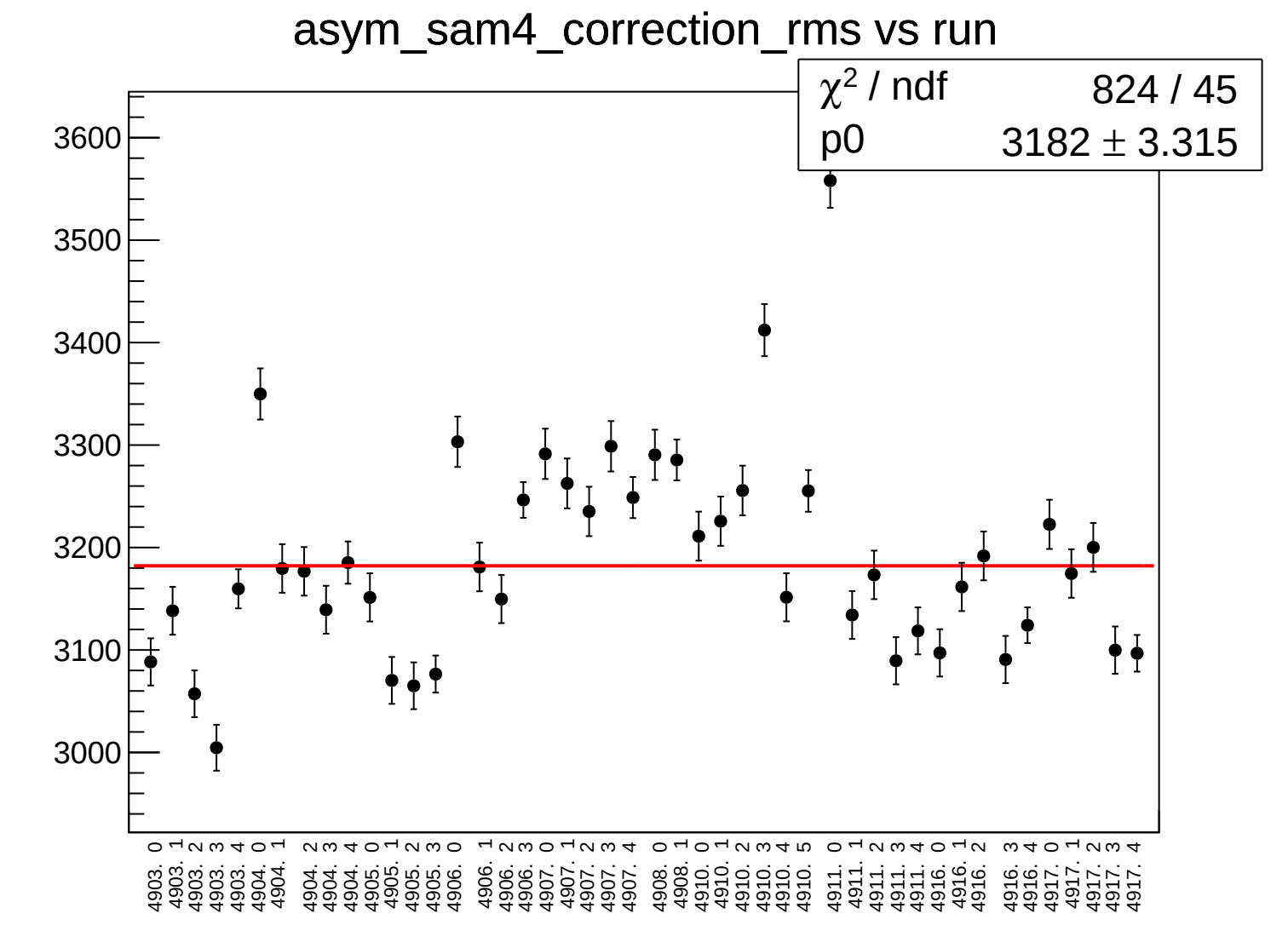

asym_sam3_correction_rms vs run
χ² / ndf 1123 / 45
p0 5938 ± 6.186
7000
6800
6600
6400
6200
6000
5800
5600
5400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

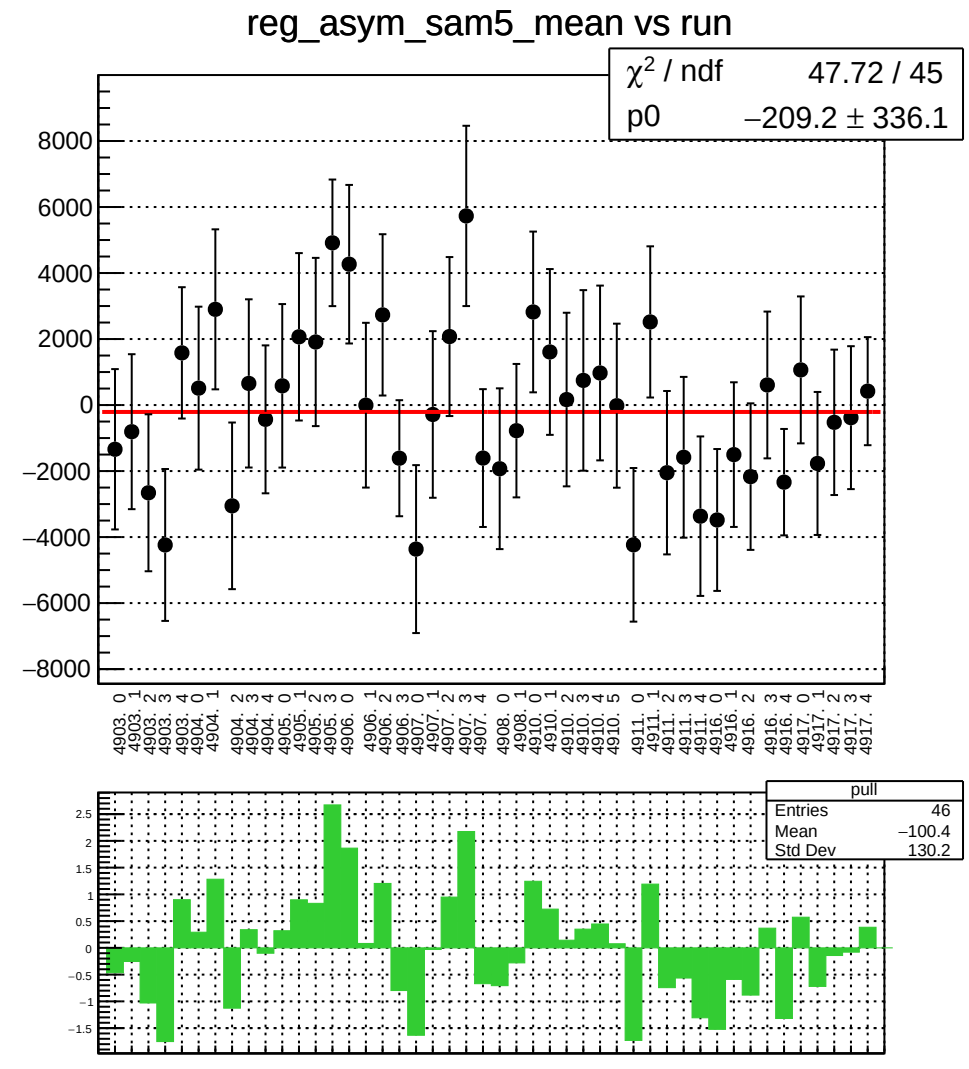

reg_asym_sam4_mean vs run
χ² / ndf 55.07 / 45
p0 −2384 ± 1403
30000
20000
10000
0
−10000
−20000
−30000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −299.1
Std Dev 318.1
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009657
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

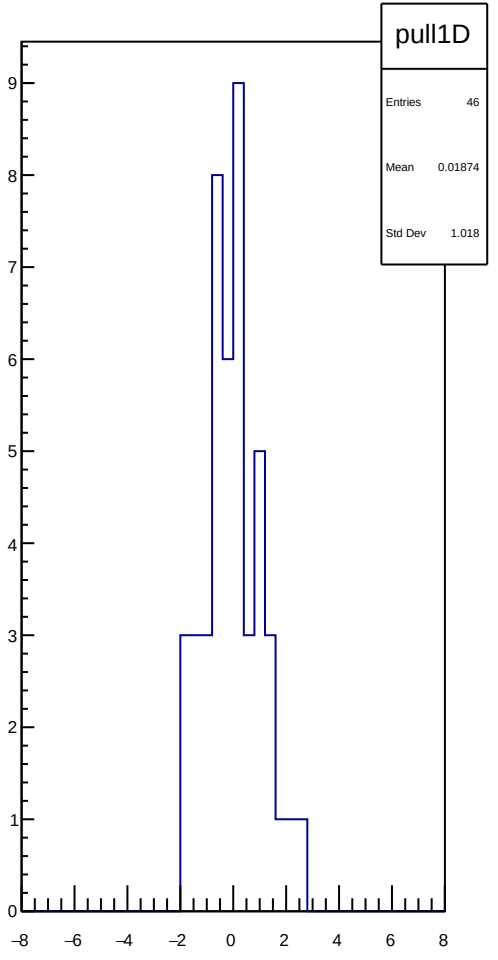

reg_asym_sam4_rms vs run
χ² / ndf 986.4 / 45
p0 952.5 ± 0.9923
1020
1000
980
960
940
920
900
880
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

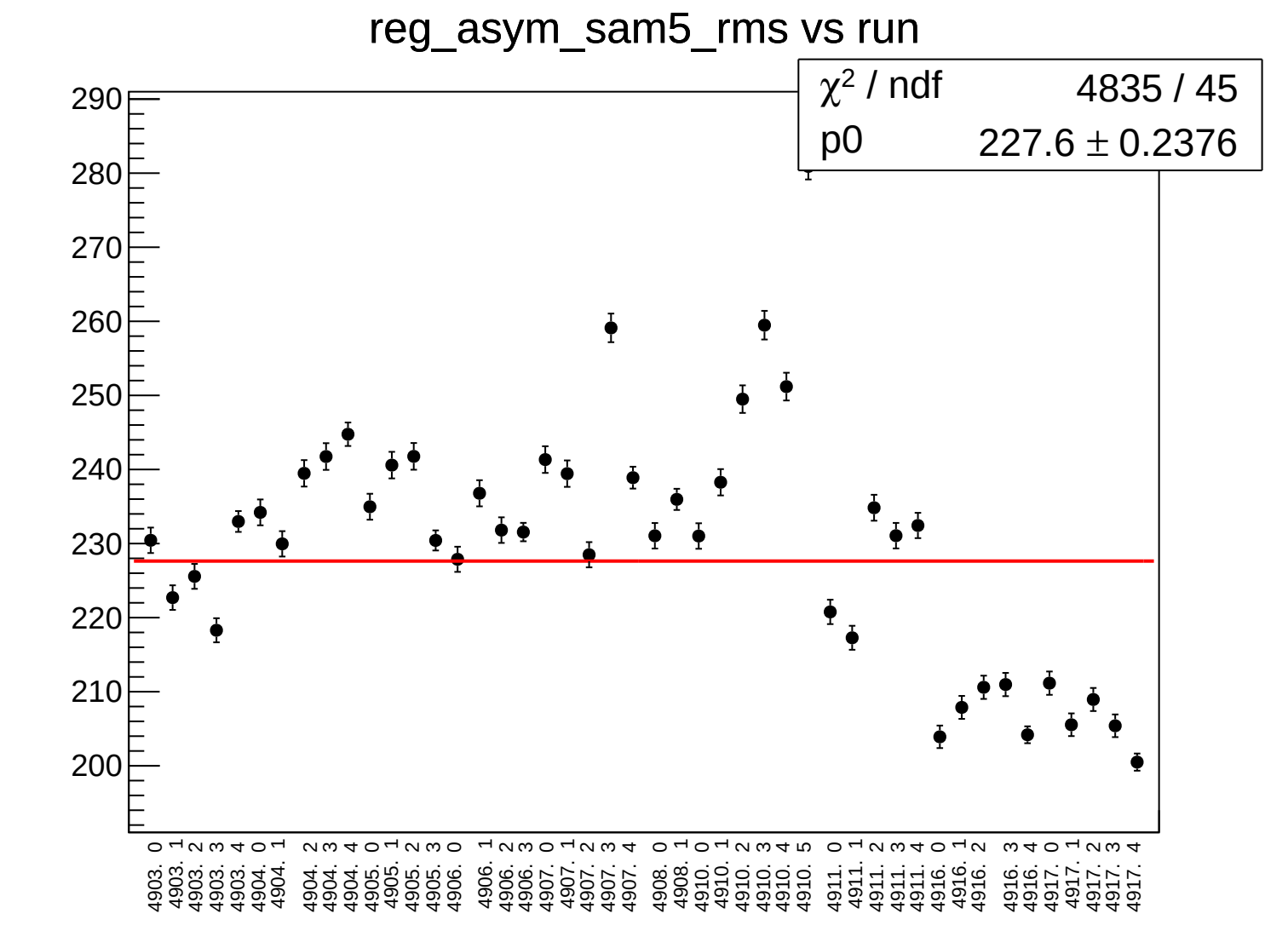

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 34.72 / 45
p0 377.6 ± 4688
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −5936
Std Dev 5961
1.5
1
0.5
0
−0.5
−1
−1.5

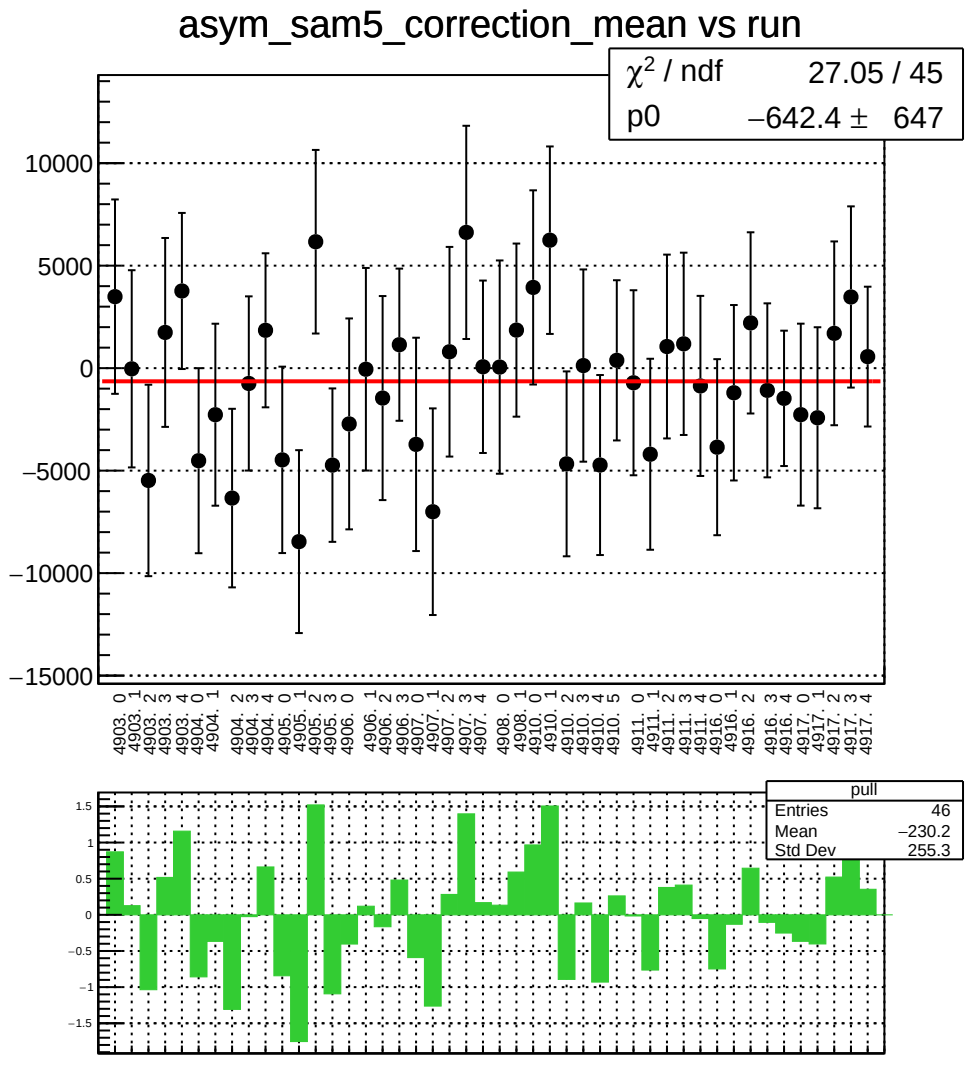

pull1D
Entries 46
Mean −0.0003328
Std Dev 0.8687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

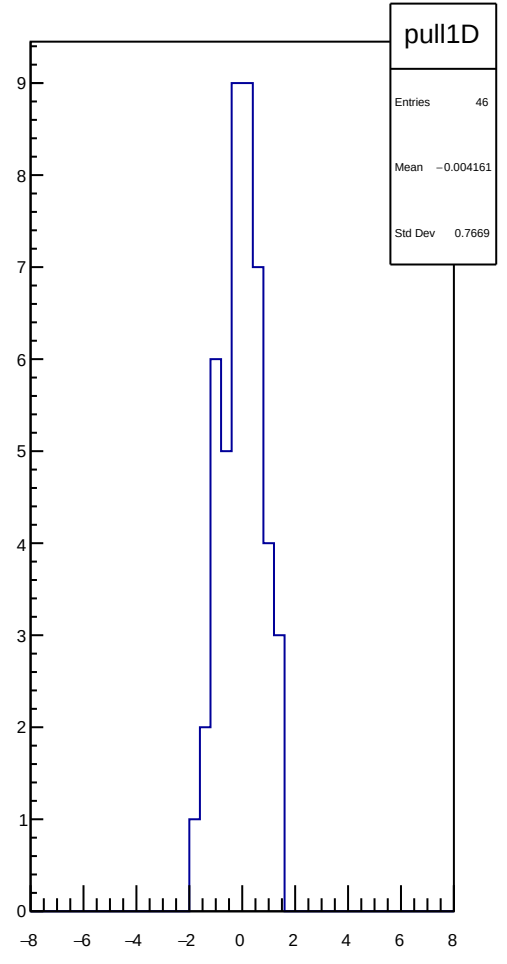

asym_sam4_correction_rms vs run
χ² / ndf 824 / 45
p0 3182 ± 3.315
3600
3500
3400
3300
3200
3100
3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

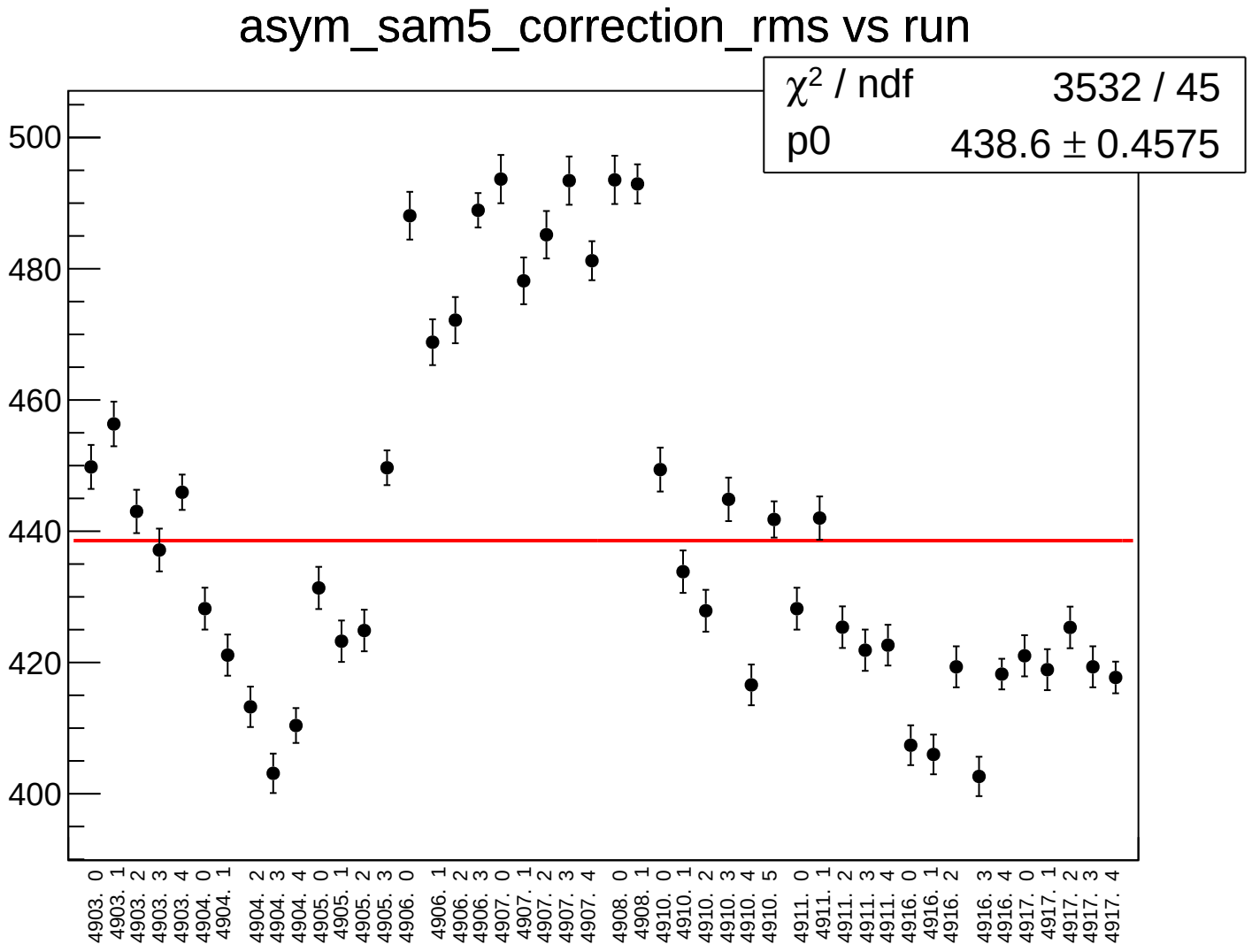

reg_asym_sam5_mean vs run
χ^2 / ndf 47.72 / 45
p0 −209.2 ± 336.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −100.4
Std Dev 130.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

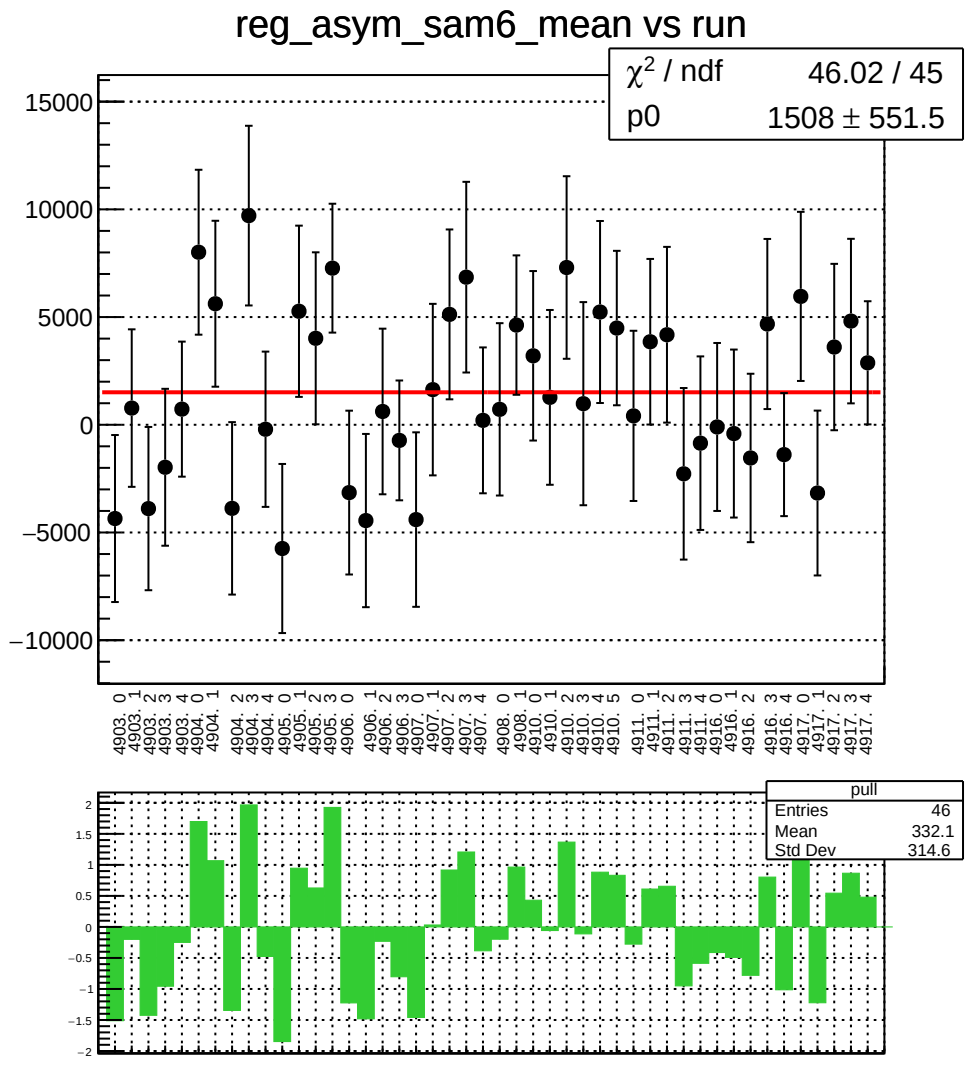

pull1D
Entries 46
Mean 0.01874
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

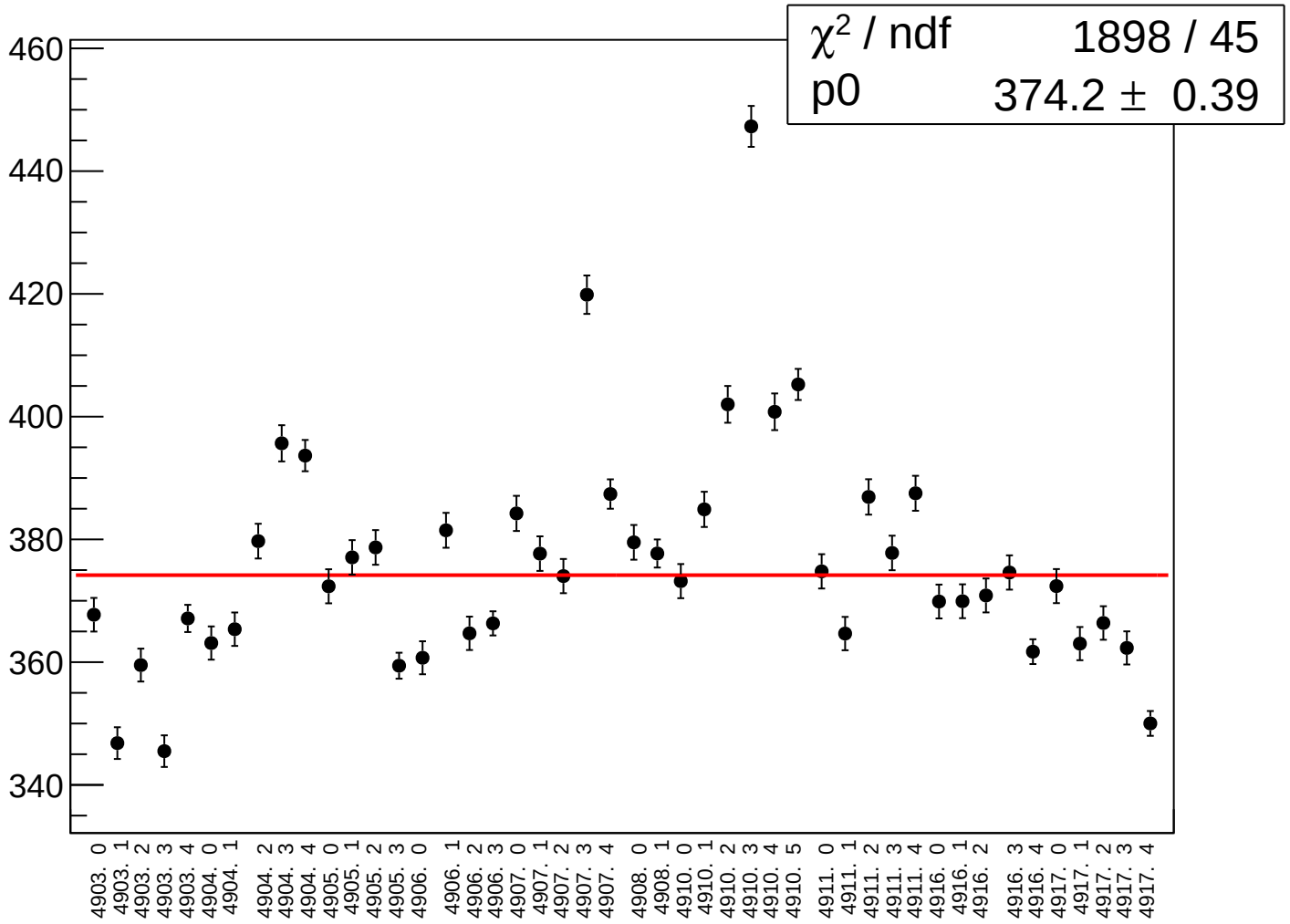

reg_asym_sam5_rms vs run
χ² / ndf 4835 / 45
p0 227.6 ± 0.2376
290
280
270
260
250
240
230
220
210
200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

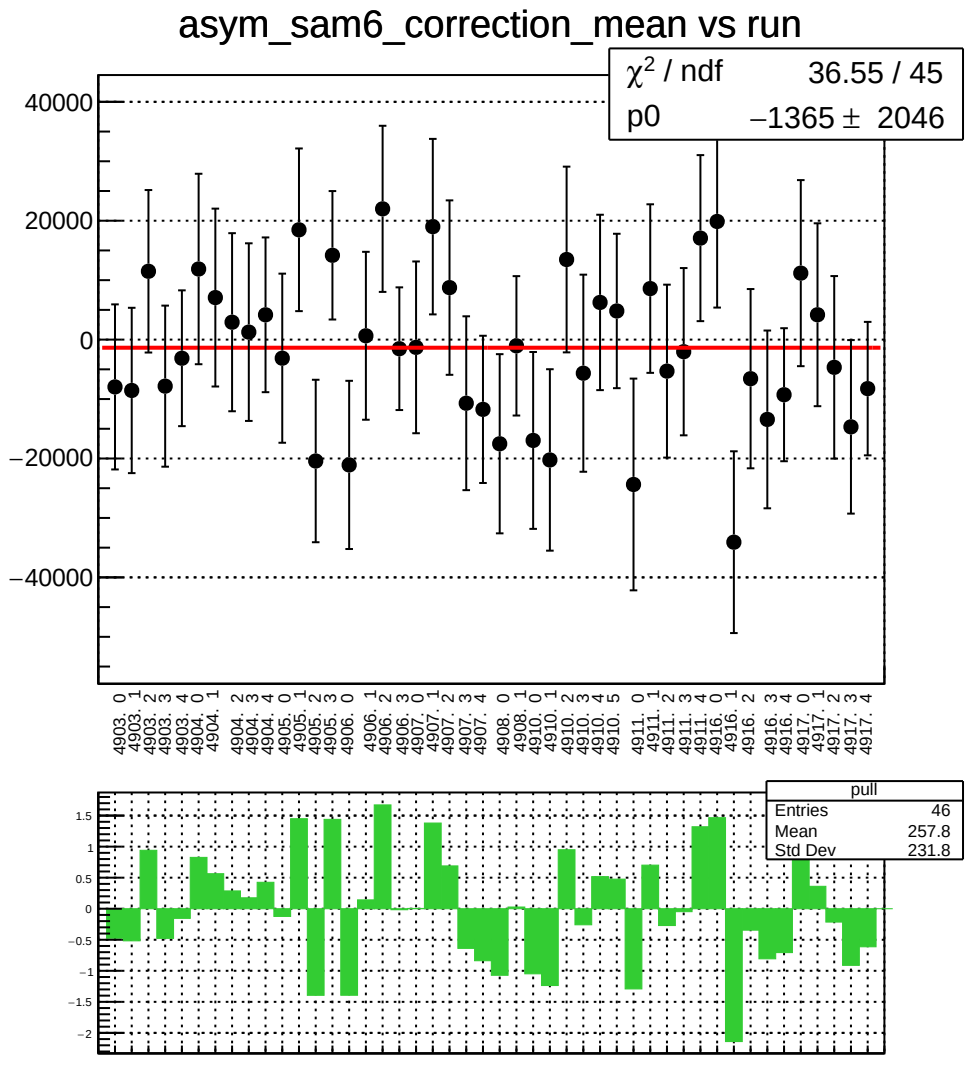

asym_sam5_correction_mean vs run
χ² / ndf 27.05 / 45
p0 −642.4 ± 647
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −230.2
Std Dev 255.3
1.5
1
0.5
0
−0.5
−1
−1.5

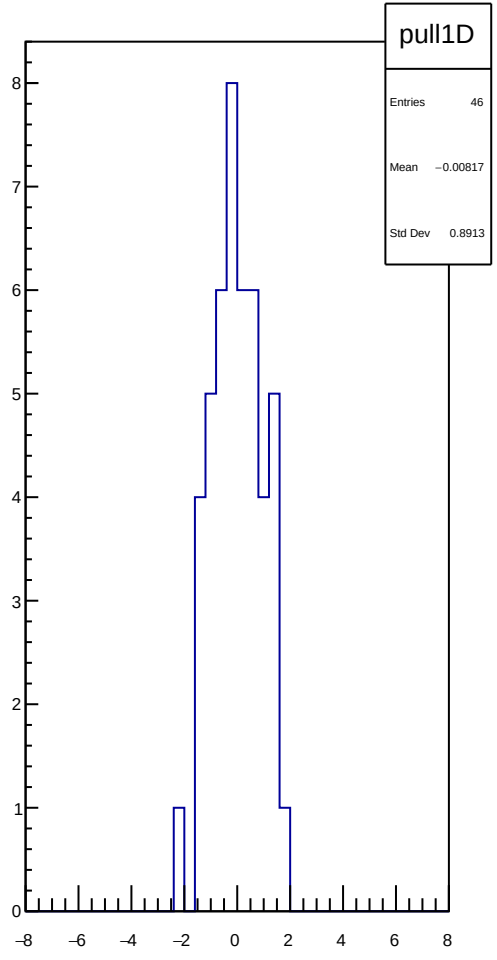

pull1D
Entries 46
Mean −0.004161
Std Dev 0.7669
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

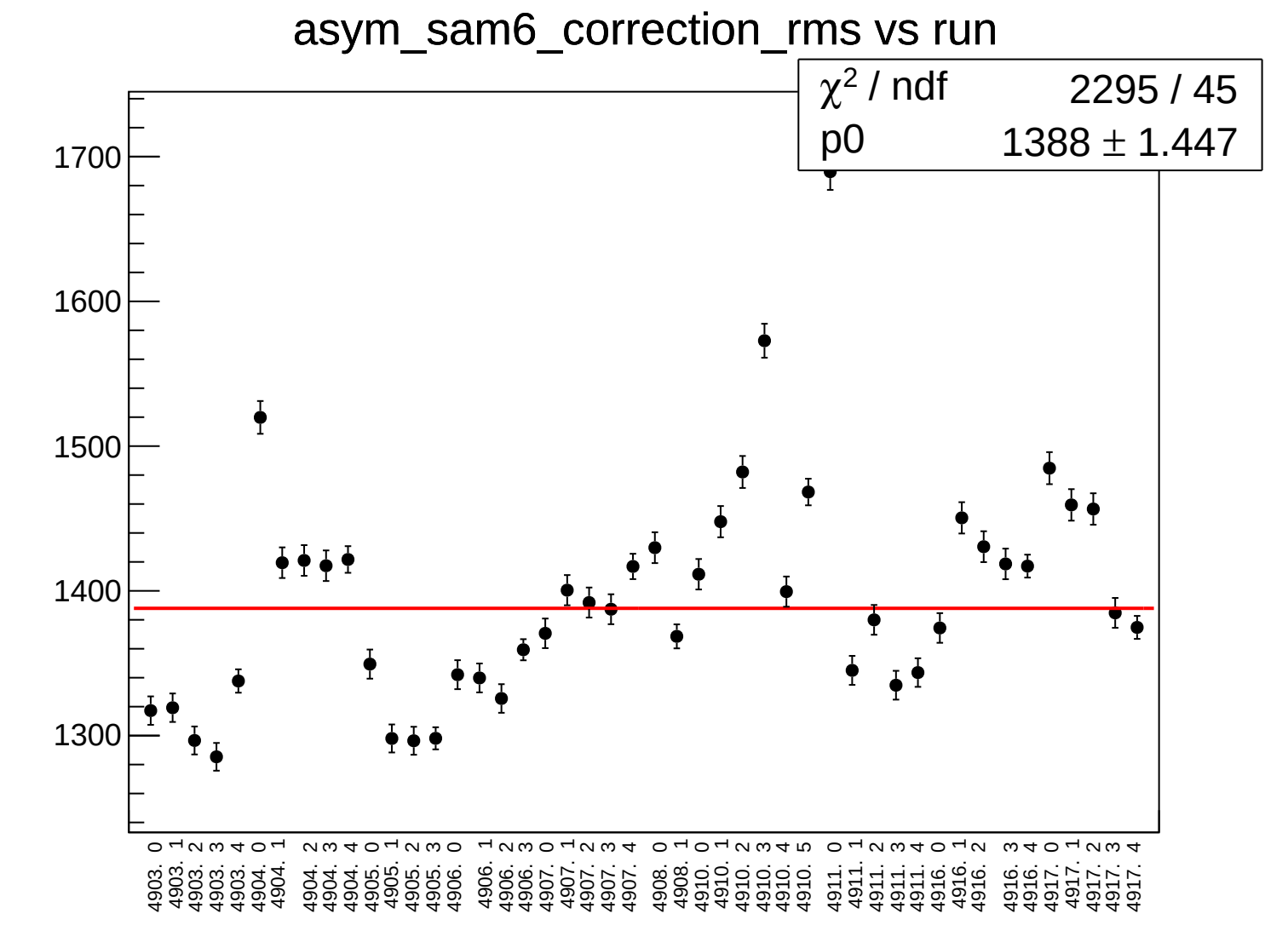

asym_sam5_correction_rms vs run
χ² / ndf 3532 / 45
p0 438.6 ± 0.4575
500
480
460
440
420
400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

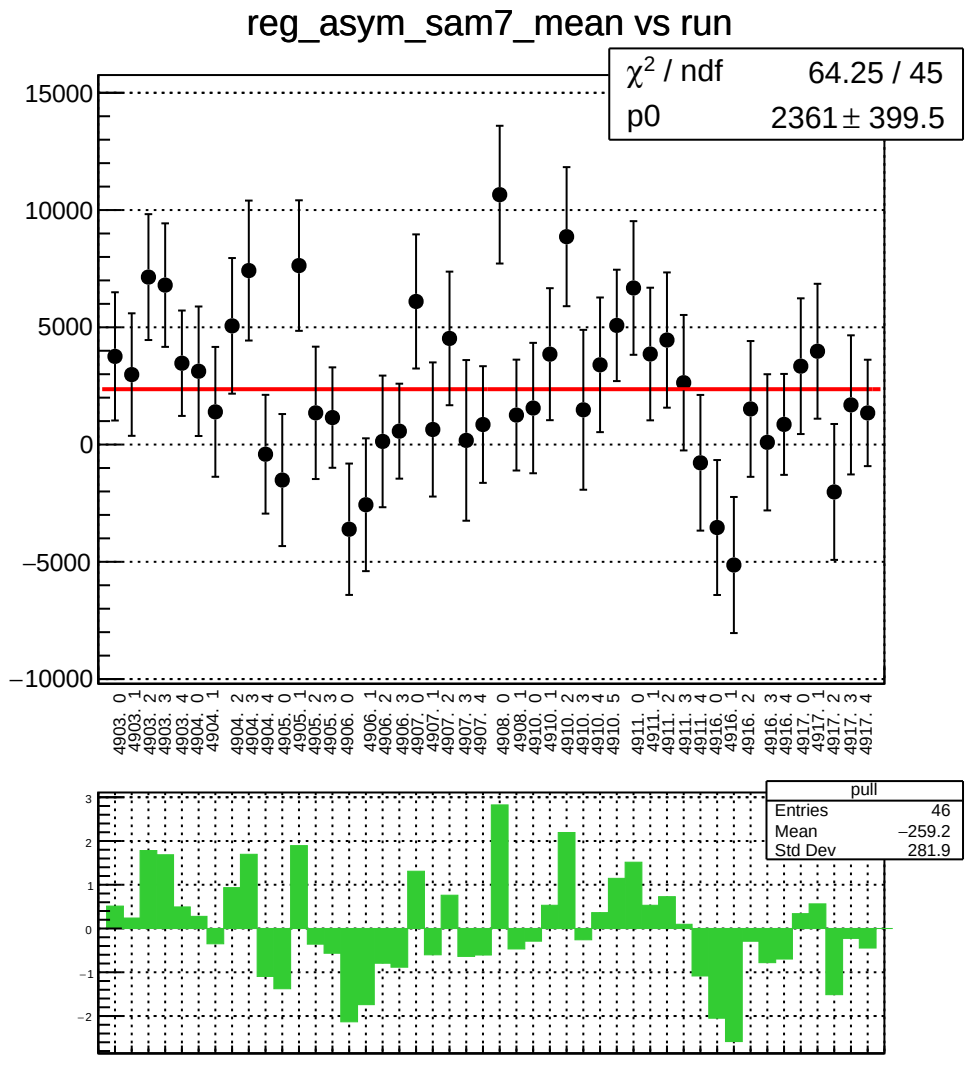

reg_asym_sam6_mean vs run
χ² / ndf 46.02 / 45
p0 1508 ± 551.5
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 332.1
Std Dev 314.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.005609
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

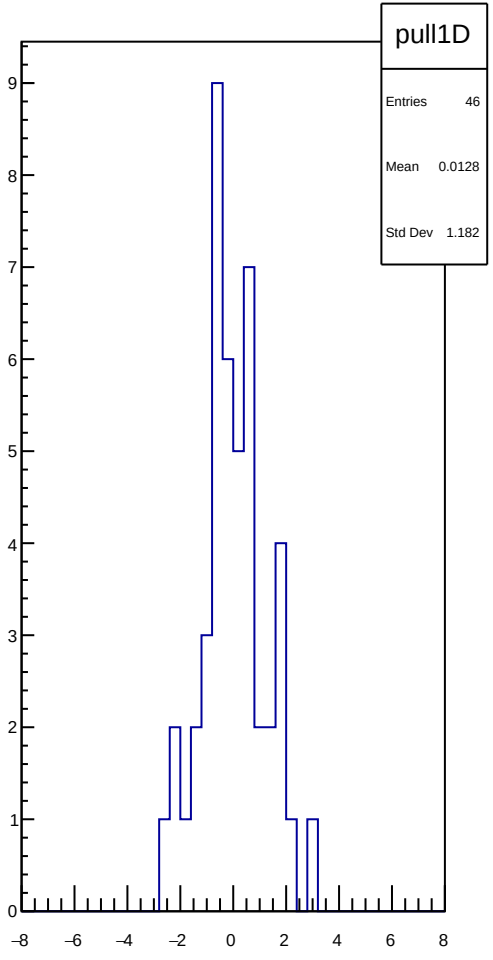

reg_asym_sam6_rms vs run
χ² / ndf 1898 / 45
p0 374.2 ± 0.39
460
440
420
400
380
360
340
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

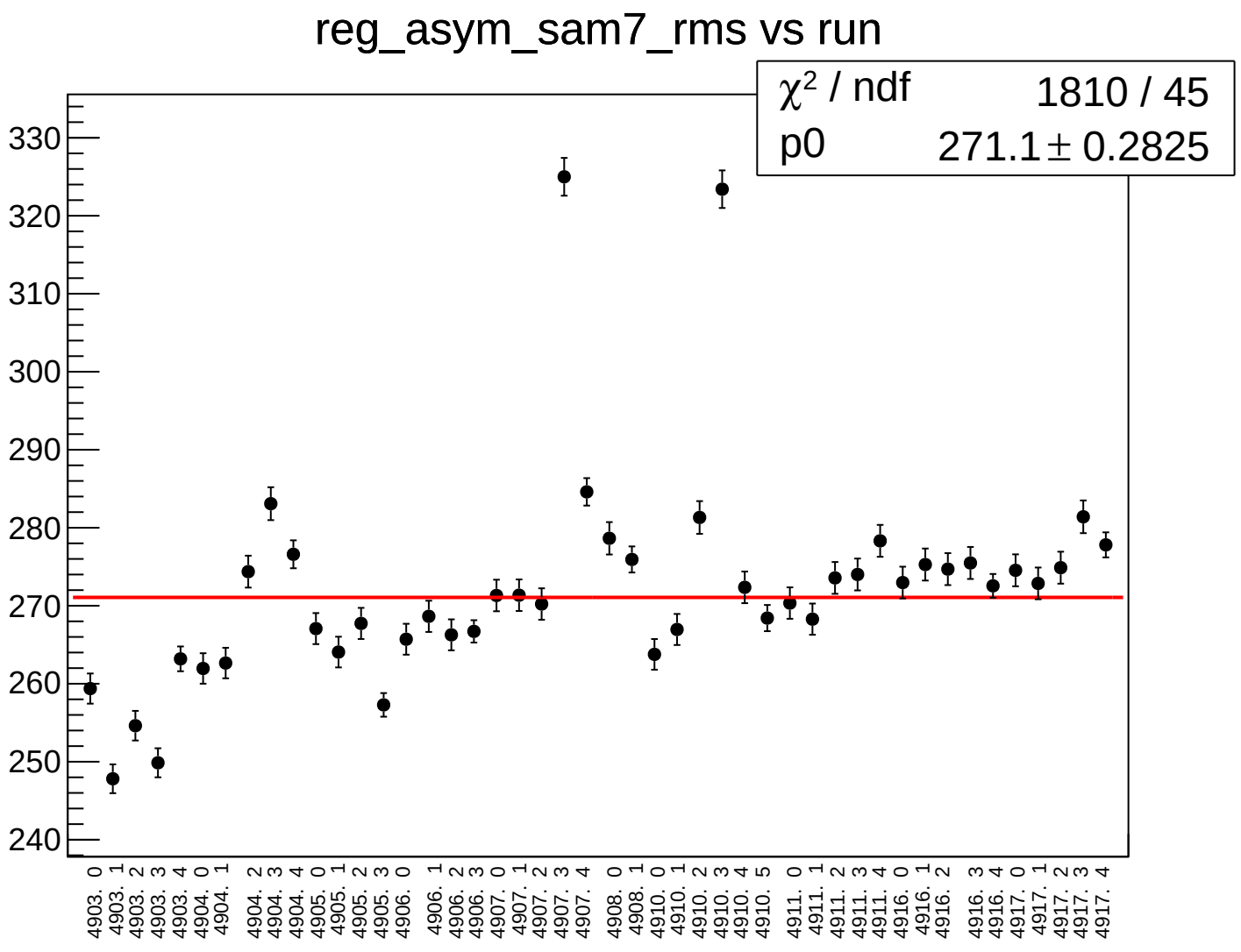

asym_sam6_correction_mean vs run
χ² / ndf 36.55 / 45
p0 −1365 ± 2046
40000
20000
0
−20000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 257.8
Std Dev 231.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

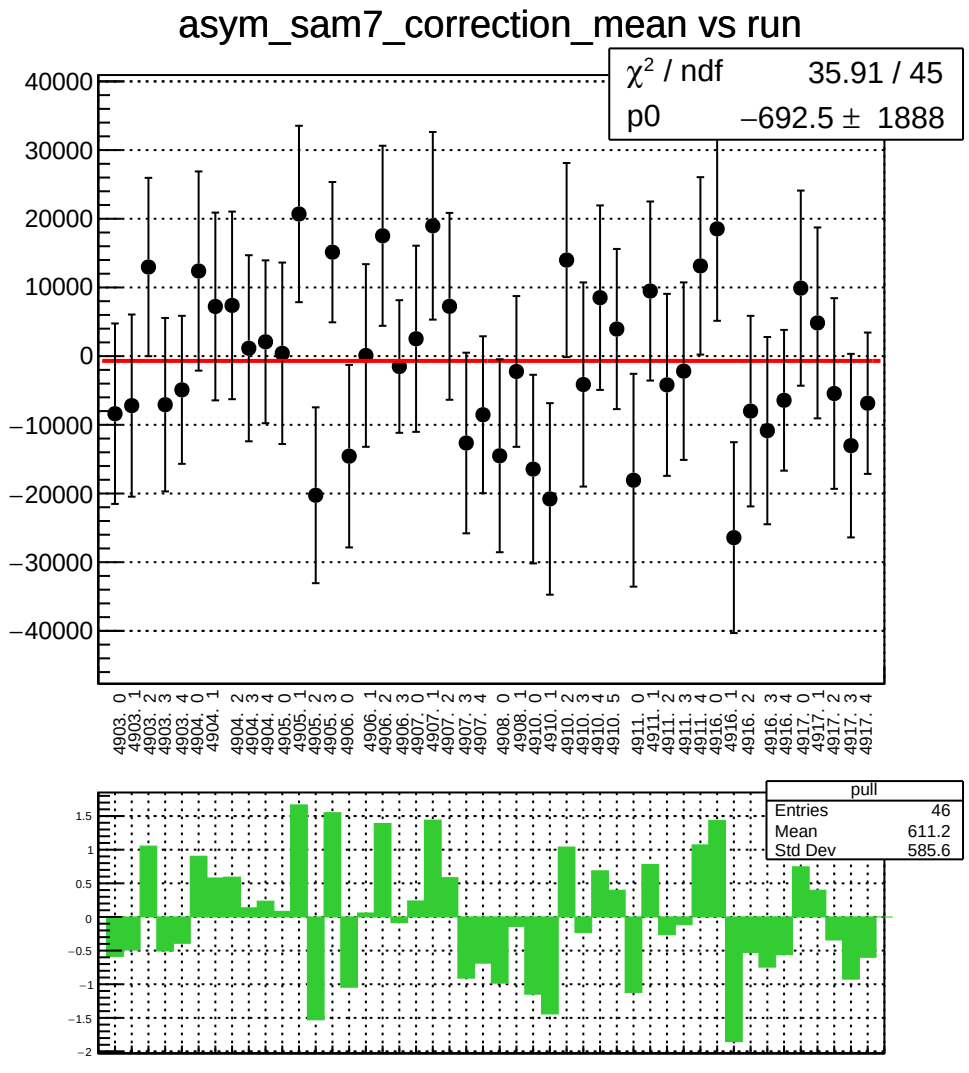

pull1D
Entries 46
Mean −0.00817
Std Dev 0.8913
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

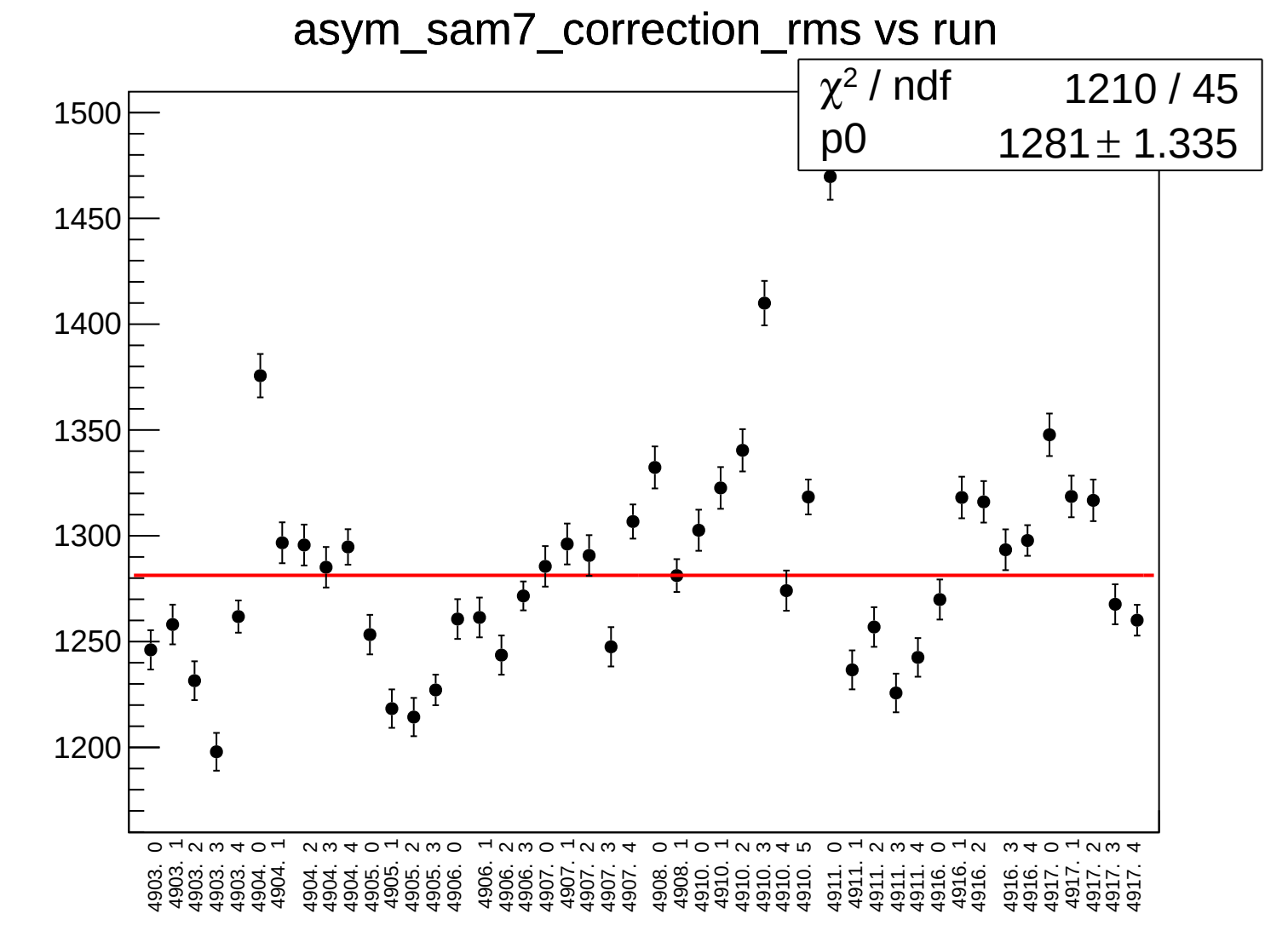

asym_sam6_correction_rms vs run
χ² / ndf 2295 / 45
p0 1388 ± 1.447
1700
1600
1500
1400
1300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

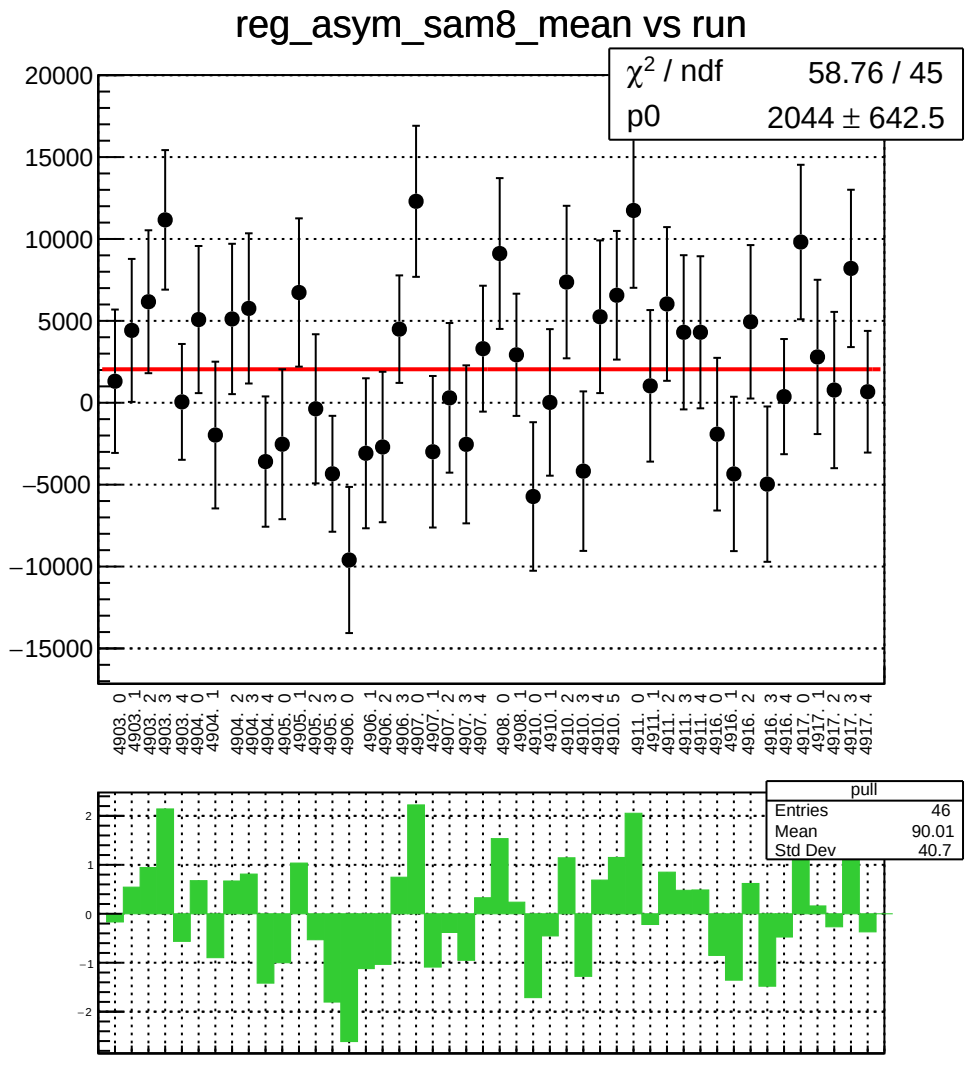

reg_asym_sam7_mean vs run
χ² / ndf 64.25 / 45
p0 2361 ± 399.5
15000
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −259.2
Std Dev 281.9
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.0128
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_rms vs run
χ² / ndf 1810 / 45
p0 271.1 ± 0.2825
330
320
310
300
290
280
270
260
250
240
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_sam7_correction_mean vs run
χ² / ndf 35.91 / 45
p0 −692.5 ± 1888
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 611.2
Std Dev 585.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.003416
Std Dev 0.8835
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_correction_rms vs run
χ² / ndf 1210 / 45
p0 1281 ± 1.335
1500
1450
1400
1350
1300
1250
1200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


reg_asym_sam8_mean vs run
χ² / ndf 58.76 / 45
p0 2044 ± 642.5
20000
15000
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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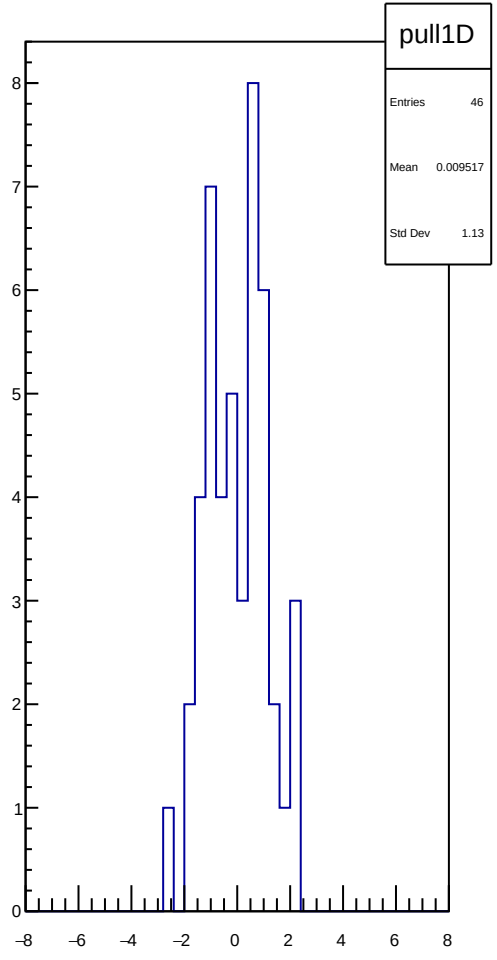
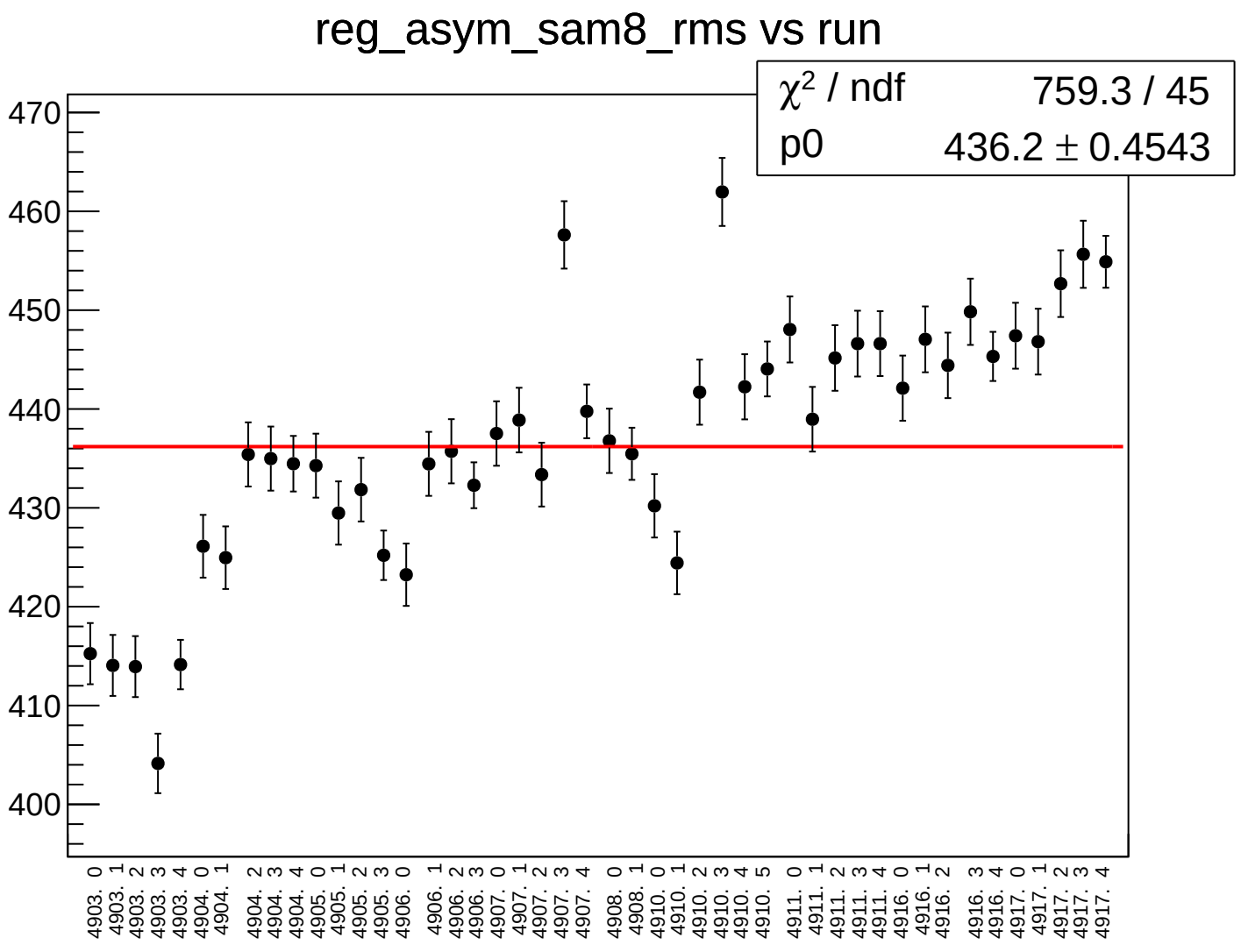
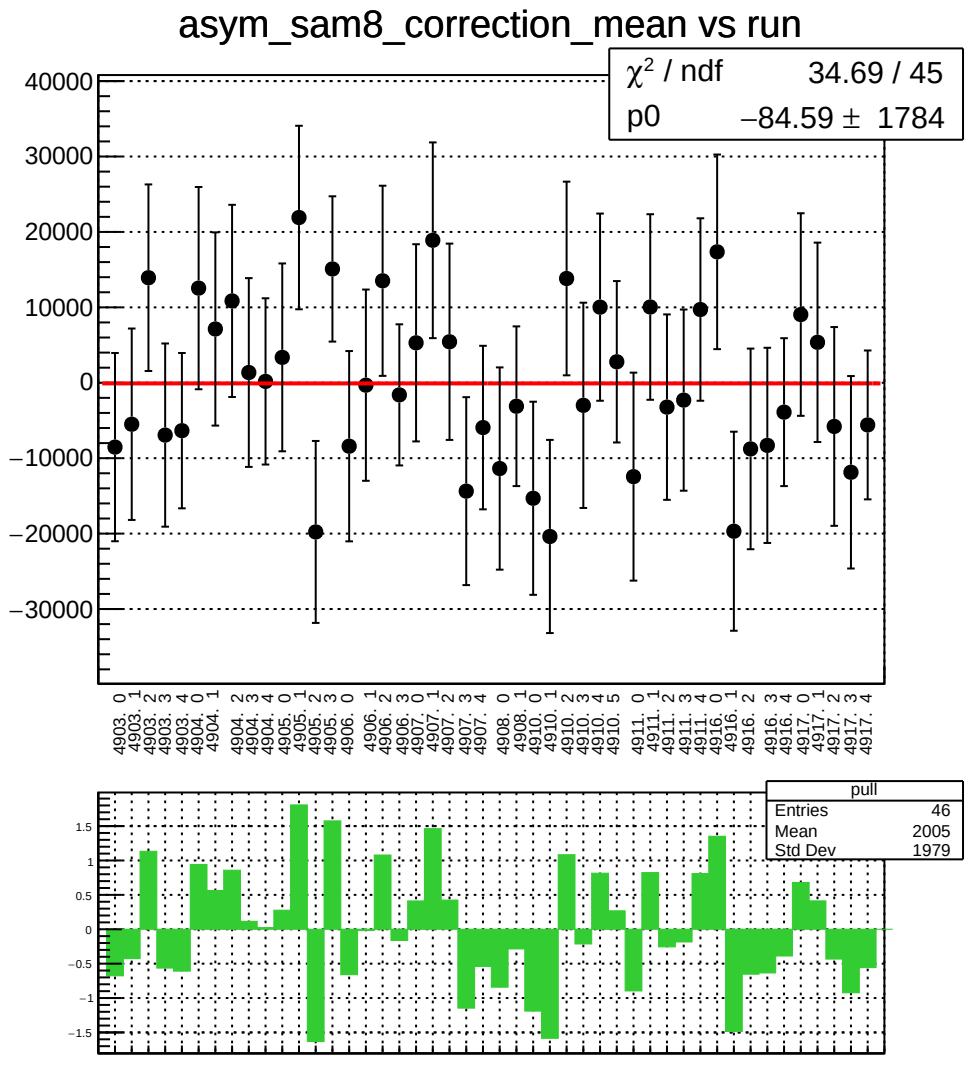
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 90.01
Std Dev 40.7
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.009517
Std Dev 1.13
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ² / ndf 759.3 / 45
p0 436.2 ± 0.4543
470
460
450
440
430
420
410
400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4


asym_sam8_correction_mean vs run
χ² / ndf 34.69 / 45
p0 −84.59 ± 1784
40000
30000
20000
10000
0
−10000
−20000
−30000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
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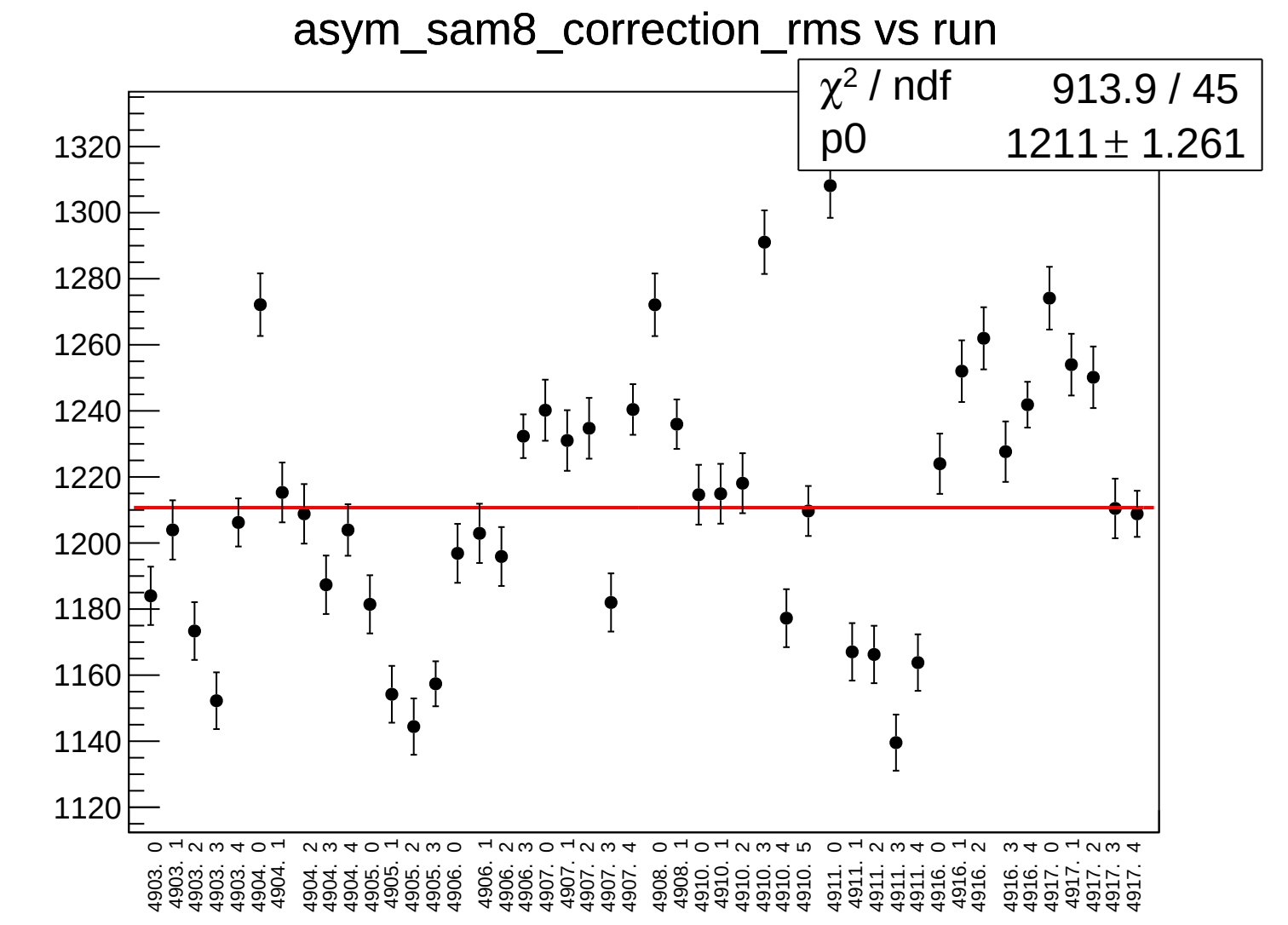
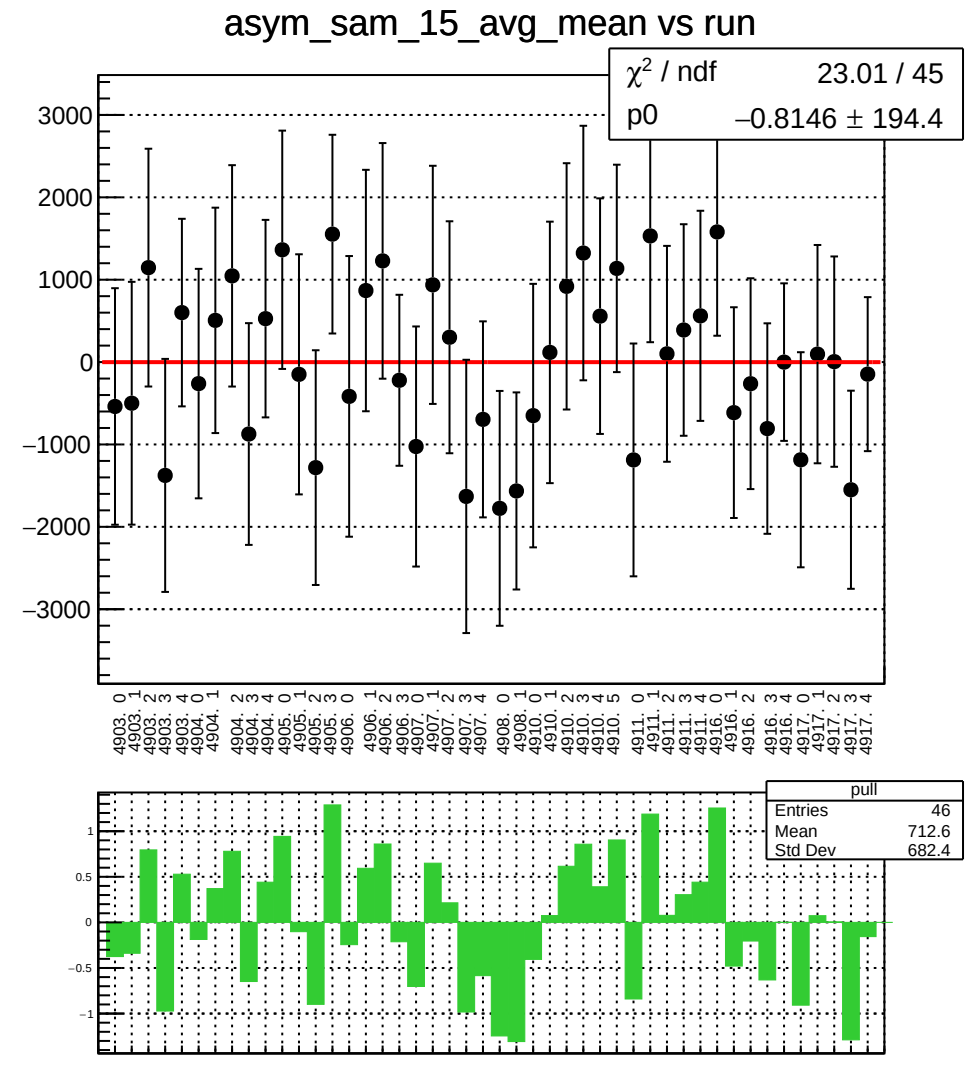
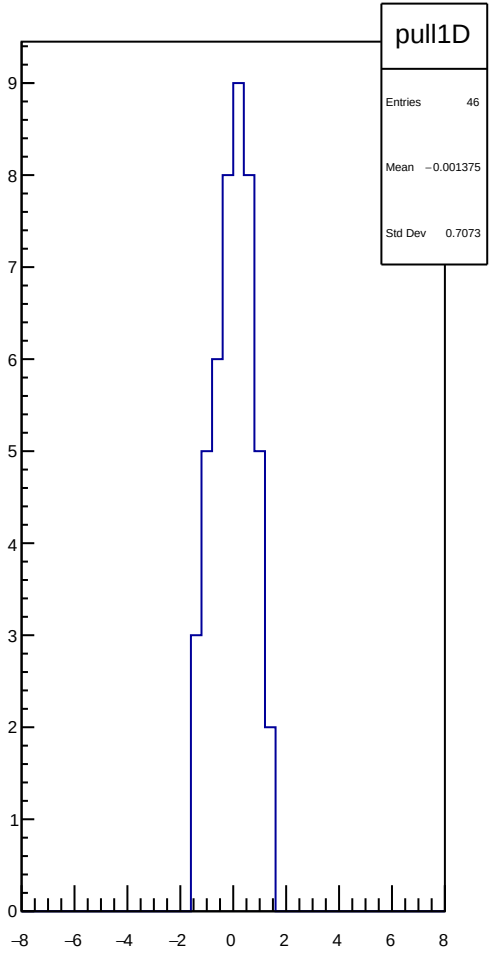
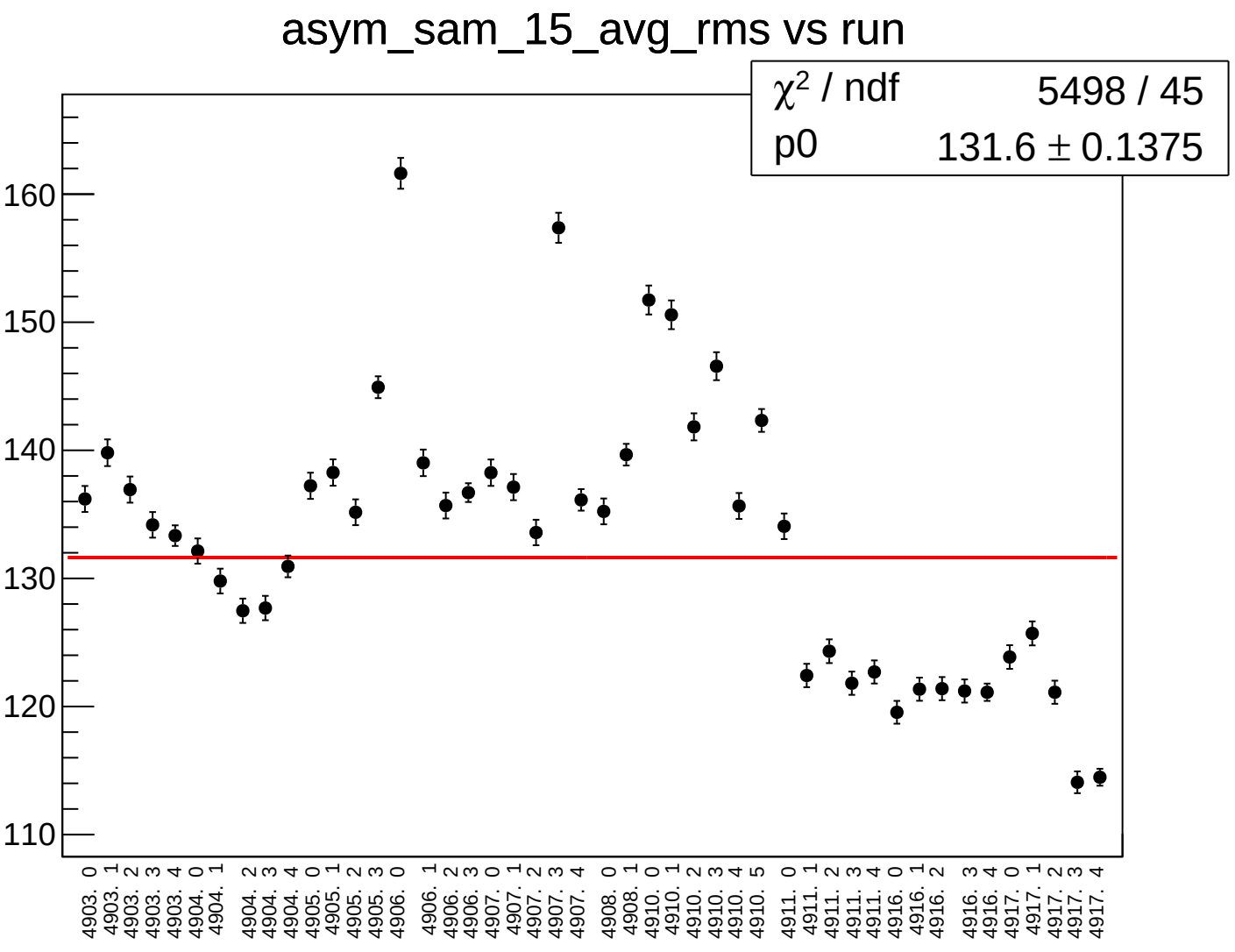
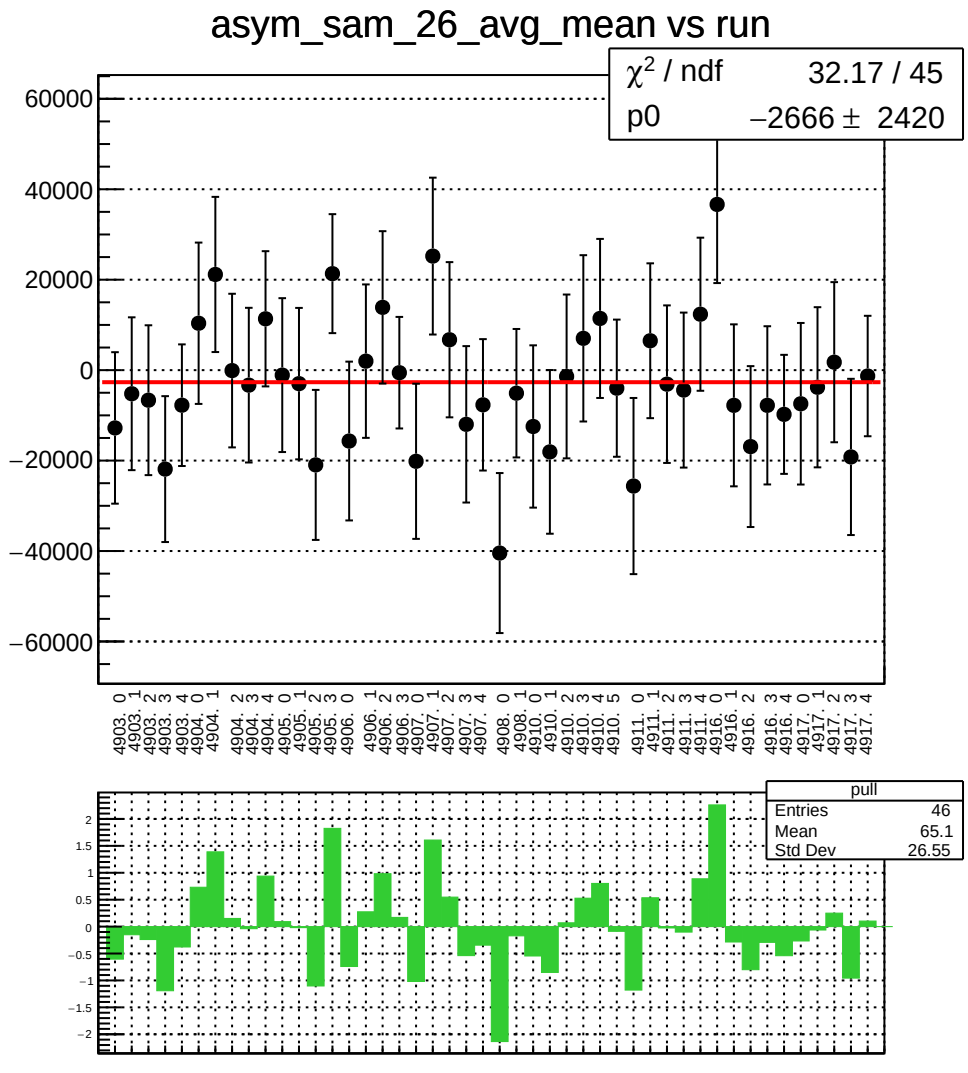
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 2005
Std Dev 1979
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.0009911
Std Dev 0.8684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

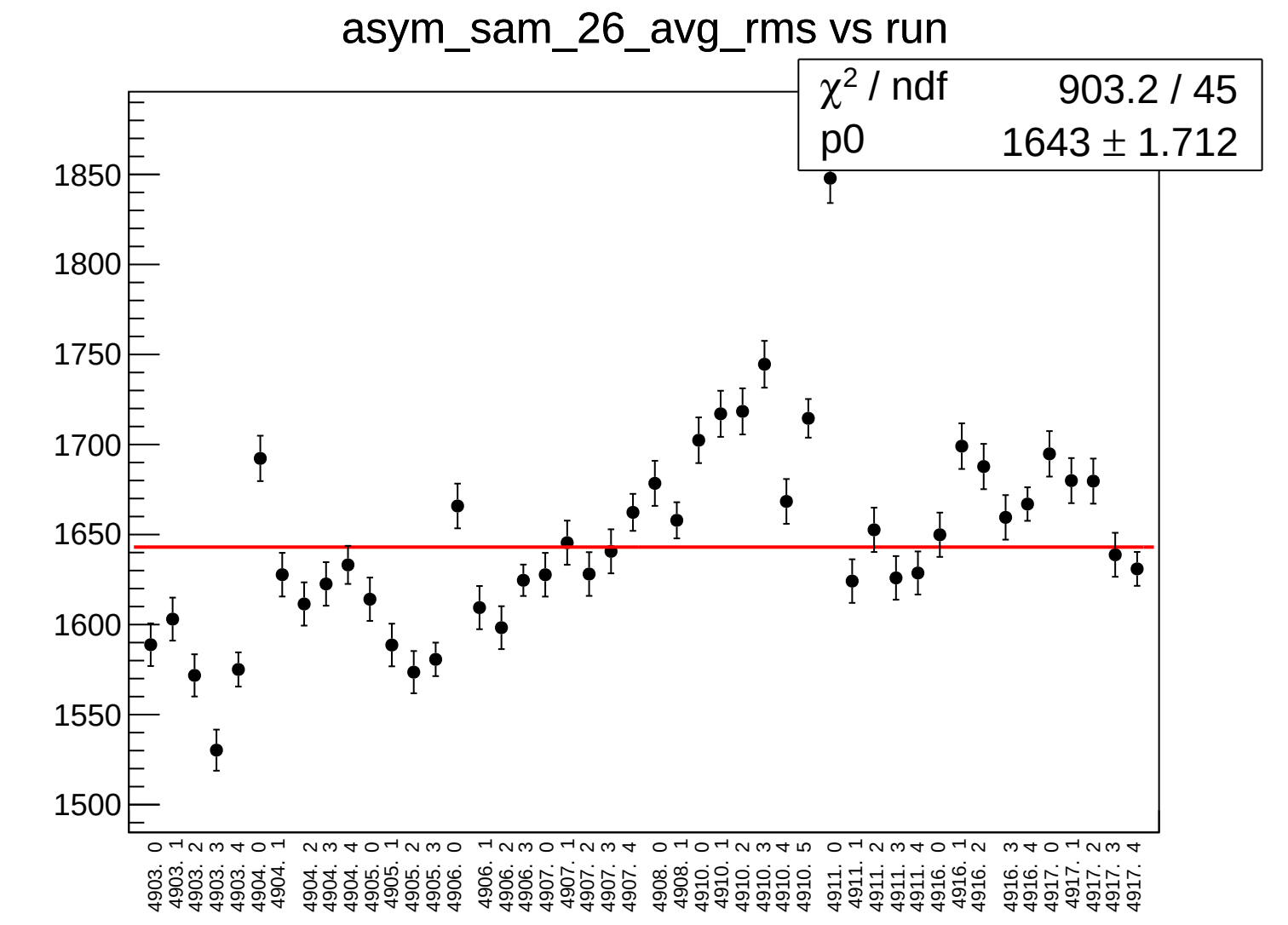

asym_sam8_correction_rms vs run
χ² / ndf 913.9 / 45
p0 1211 ± 1.261
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

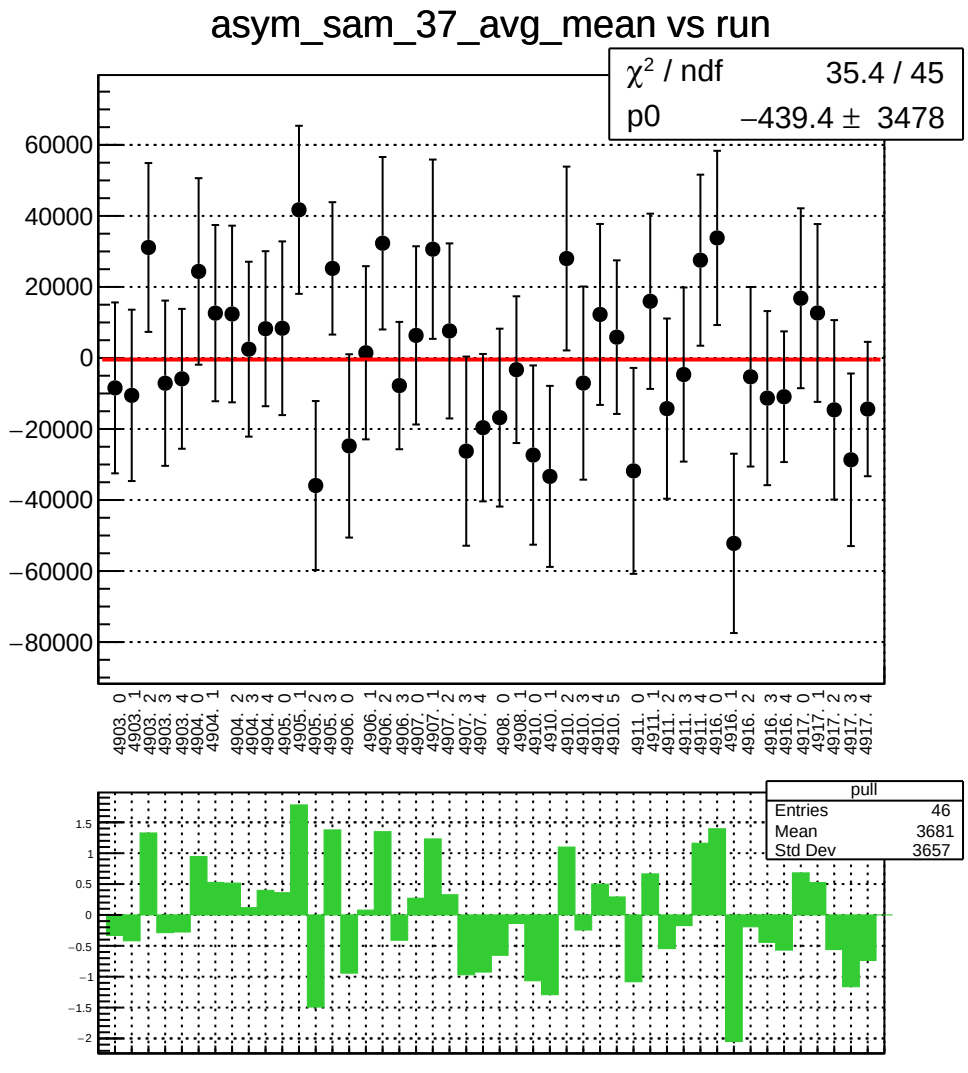

asym_sam_15_avg_mean vs run
χ² / ndf 23.01 / 45
p0 −0.8146 ± 194.4
3000
2000
1000
0
−1000
−2000
−3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 712.6
Std Dev 682.4
1
0.5
0
−0.5
−1

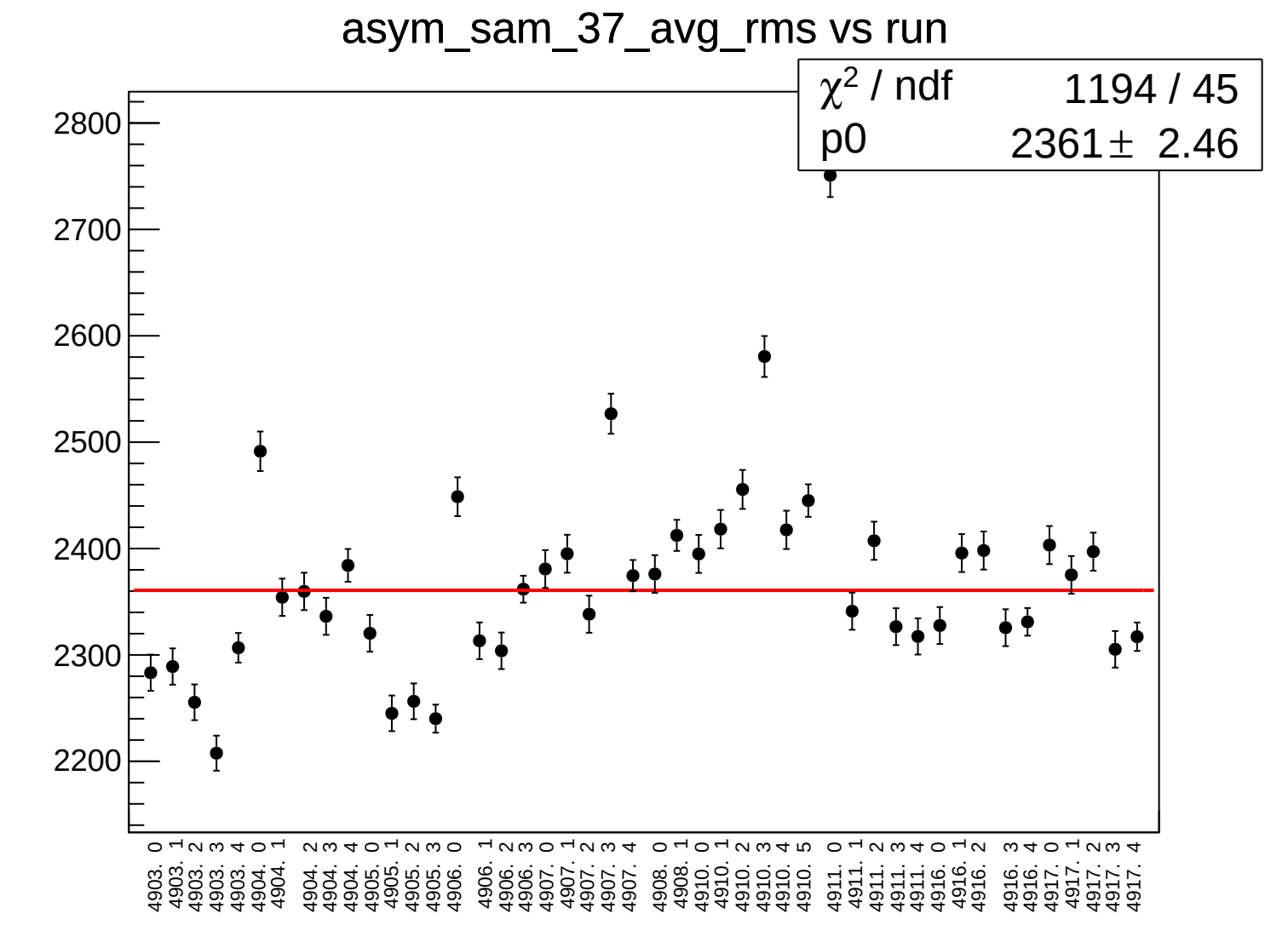

pull1D
Entries 46
Mean −0.001375
Std Dev 0.7073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

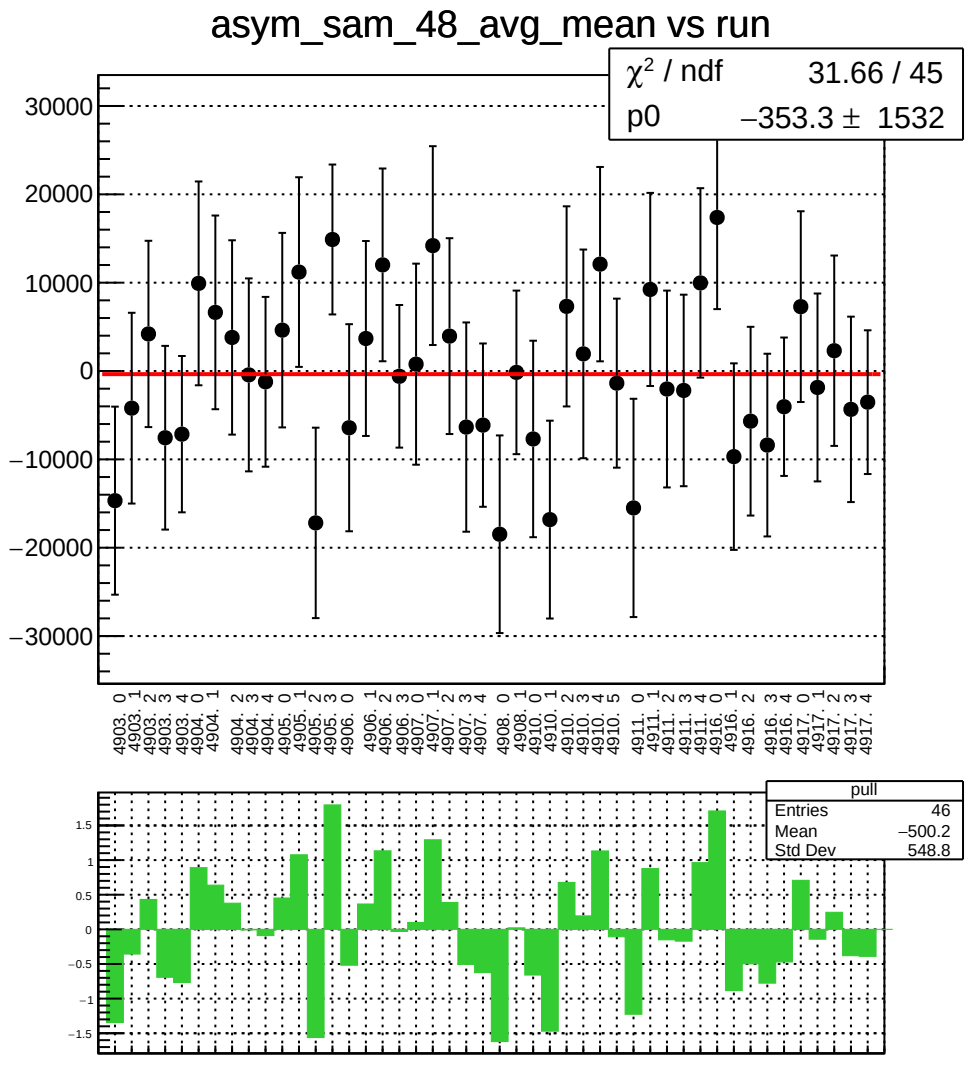

asym_sam_15_avg_rms vs run
χ² / ndf 5498 / 45
p0 131.6 ± 0.1375
160
150
140
130
120
110
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

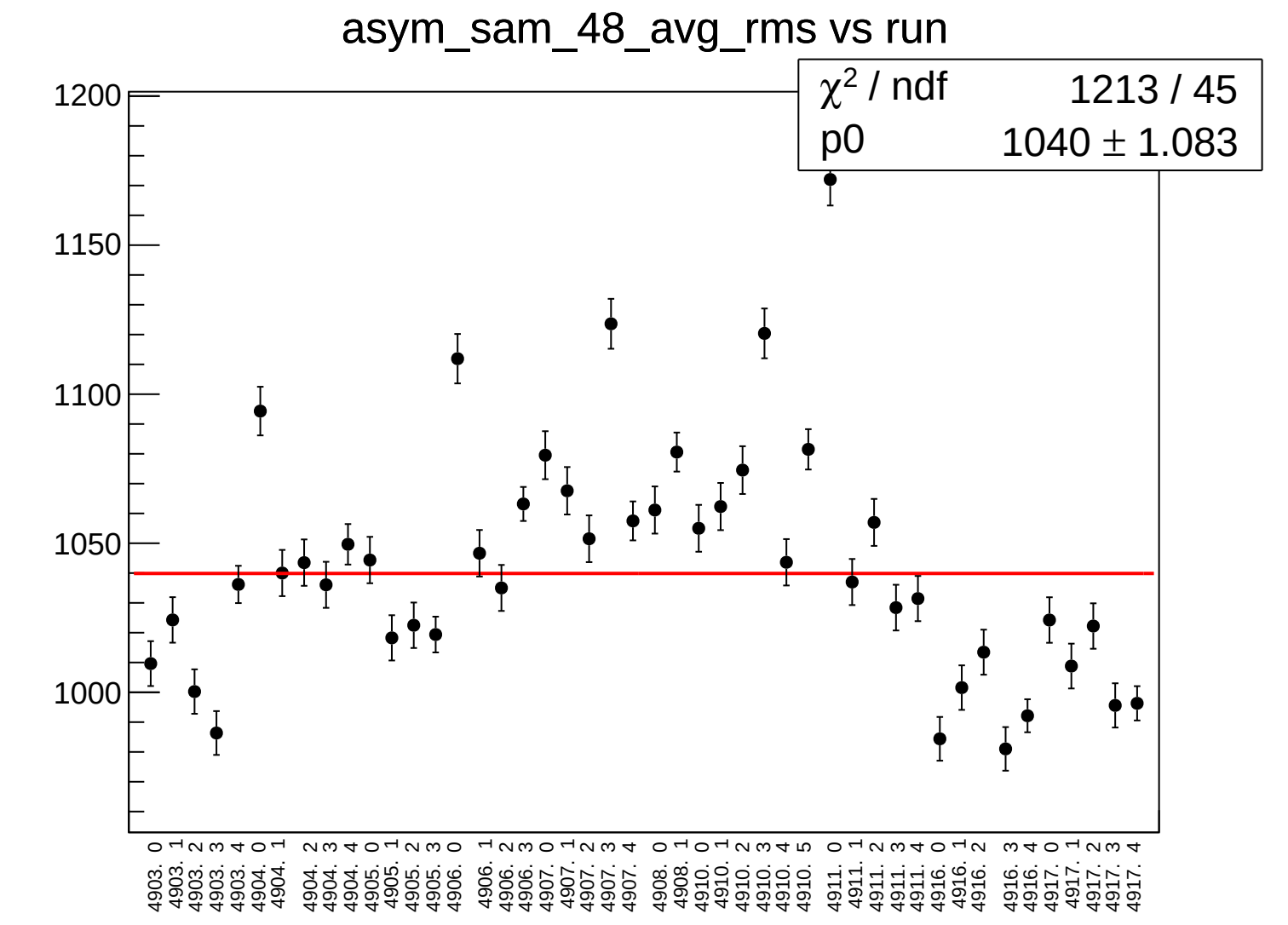

asym_sam_26_avg_mean vs run
χ² / ndf 32.17 / 45
p0 −2666 ± 2420
60000
40000
20000
0
−20000
−40000
−60000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 65.1
Std Dev 26.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01144
Std Dev 0.8362
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

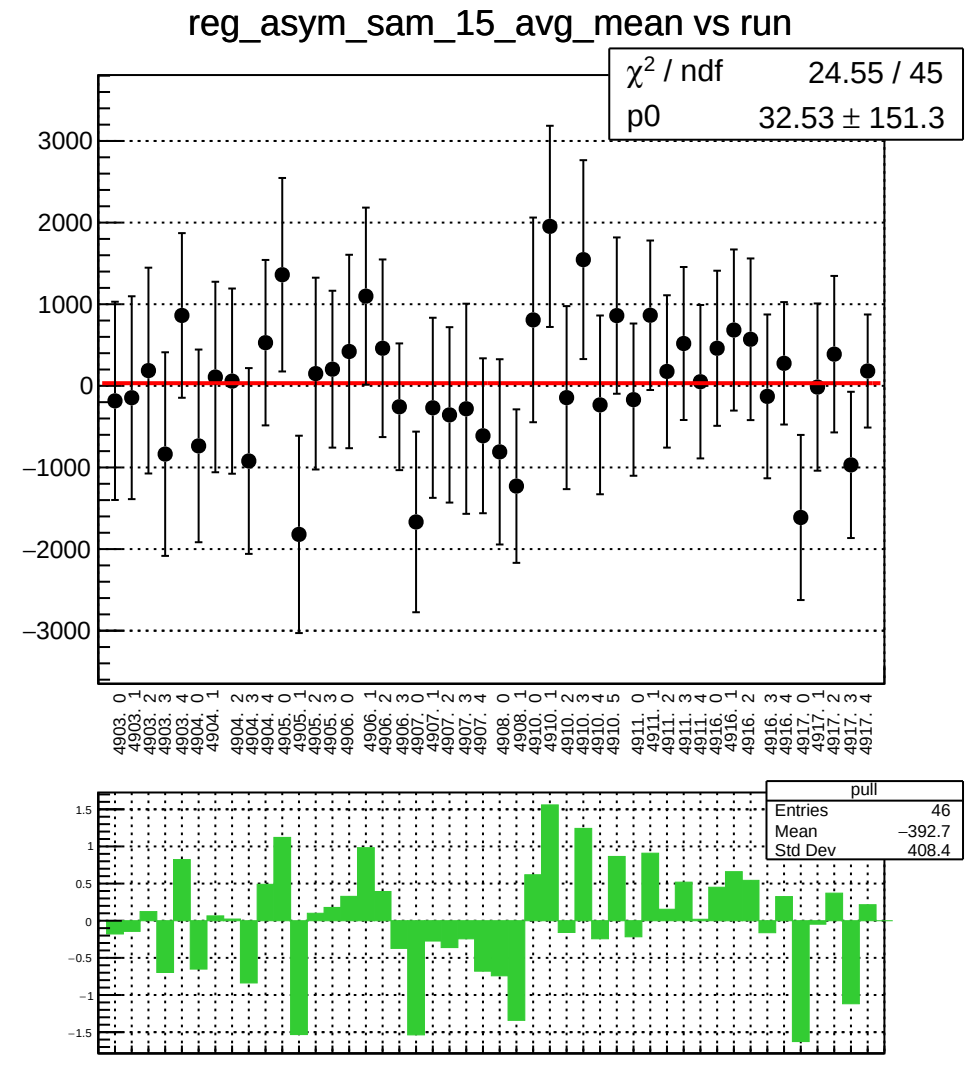

asym_sam_26_avg_rms vs run
χ² / ndf 903.2 / 45
p0 1643 ± 1.712
1850
1800
1750
1700
1650
1600
1550
1500
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

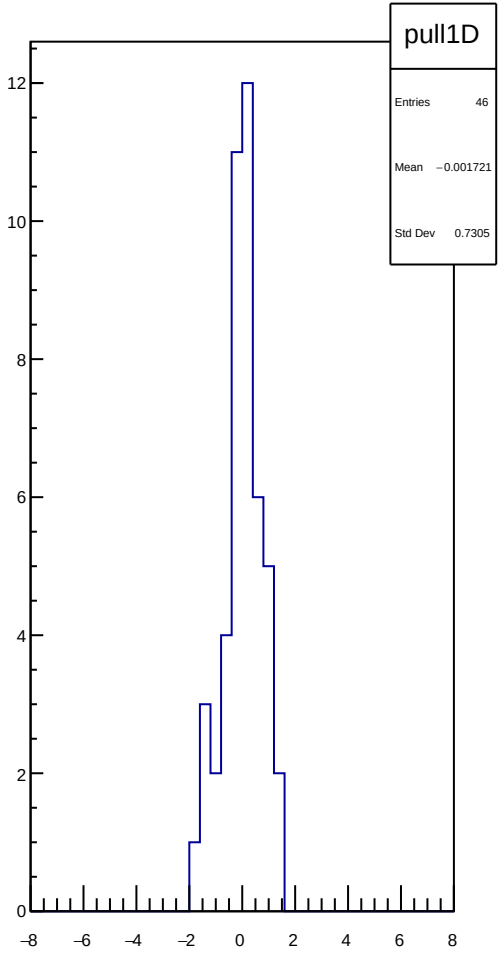

asym_sam_37_avg_mean vs run
χ² / ndf 35.4 / 45
p0 −439.4 ± 3478
60000
40000
20000
0
−20000
−40000
−60000
−80000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 3681
Std Dev 3657
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0007276
Std Dev 0.8772
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

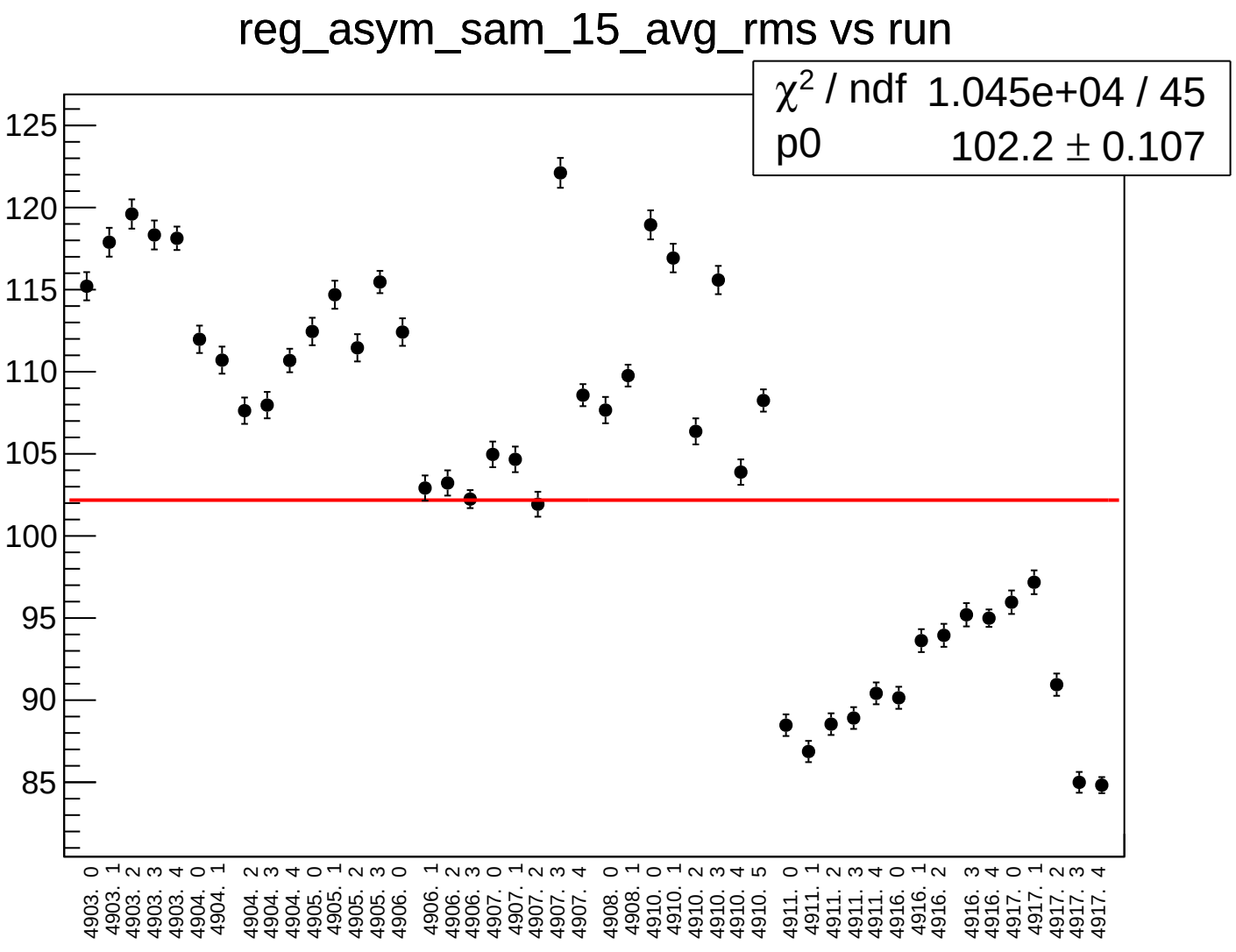

asym_sam_37_avg_rms vs run
χ² / ndf 1194 / 45
p0 2361 ± 2.46
2800
2700
2600
2500
2400
2300
2200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

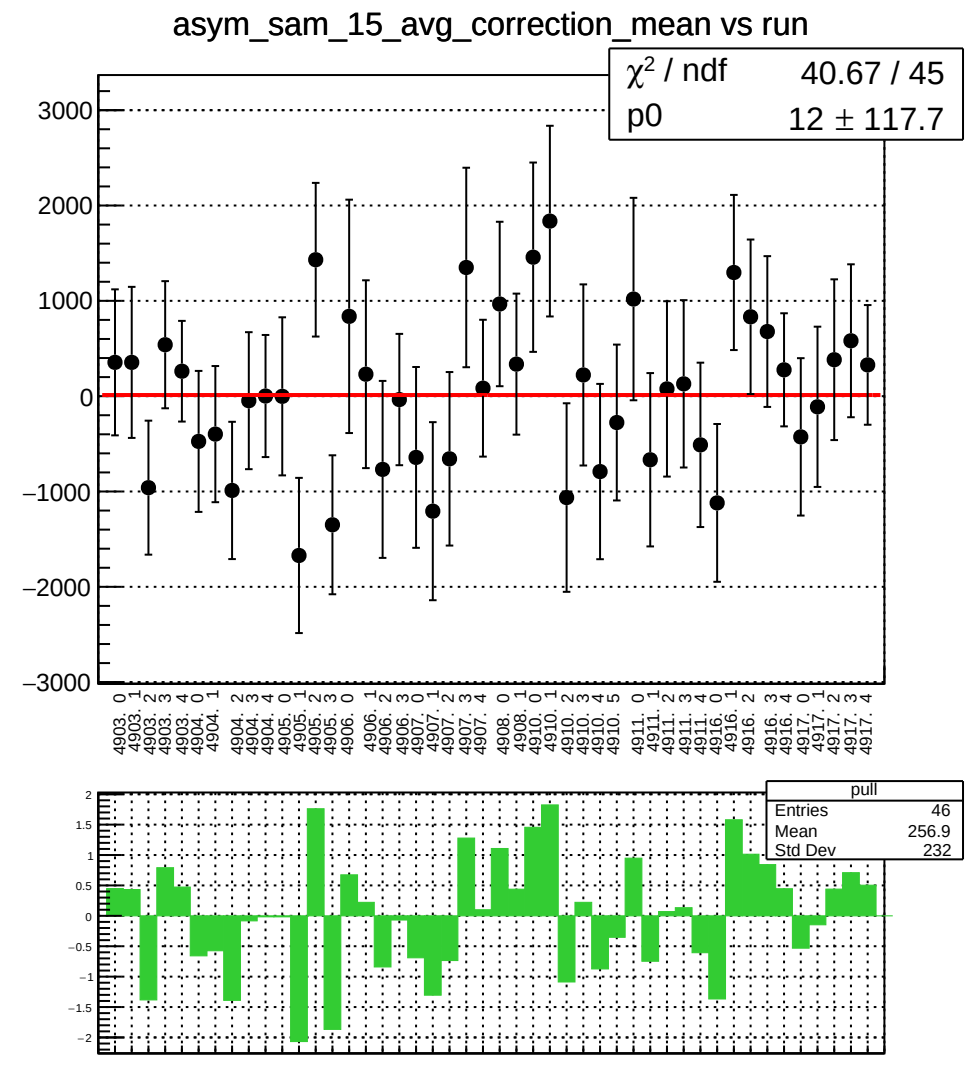

asym_sam_48_avg_mean vs run
χ² / ndf 31.66 / 45
p0 −353.3 ± 1532
30000
20000
10000
0
−10000
−20000
−30000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −500.2
Std Dev 548.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.0005618
Std Dev 0.8296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

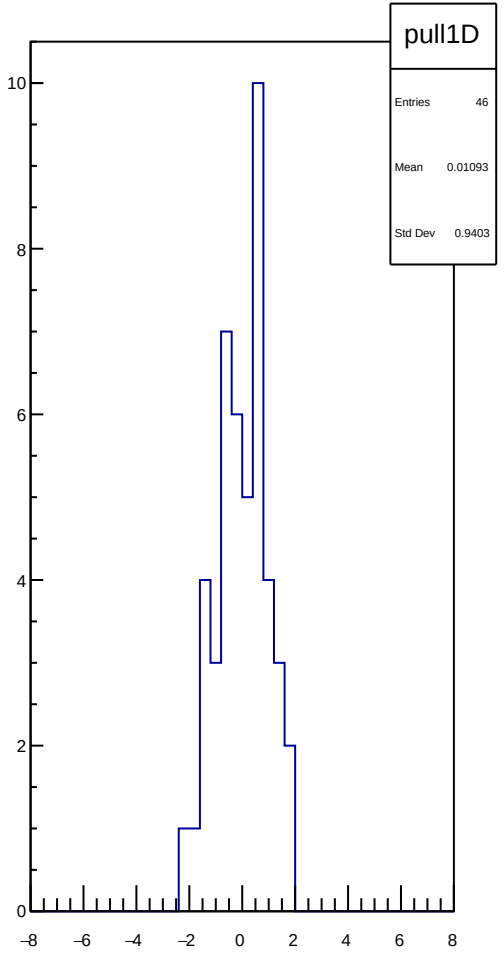

asym_sam_48_avg_rms vs run
χ² / ndf 1213 / 45
p0 1040 ± 1.083
1200
1150
1100
1050
1000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

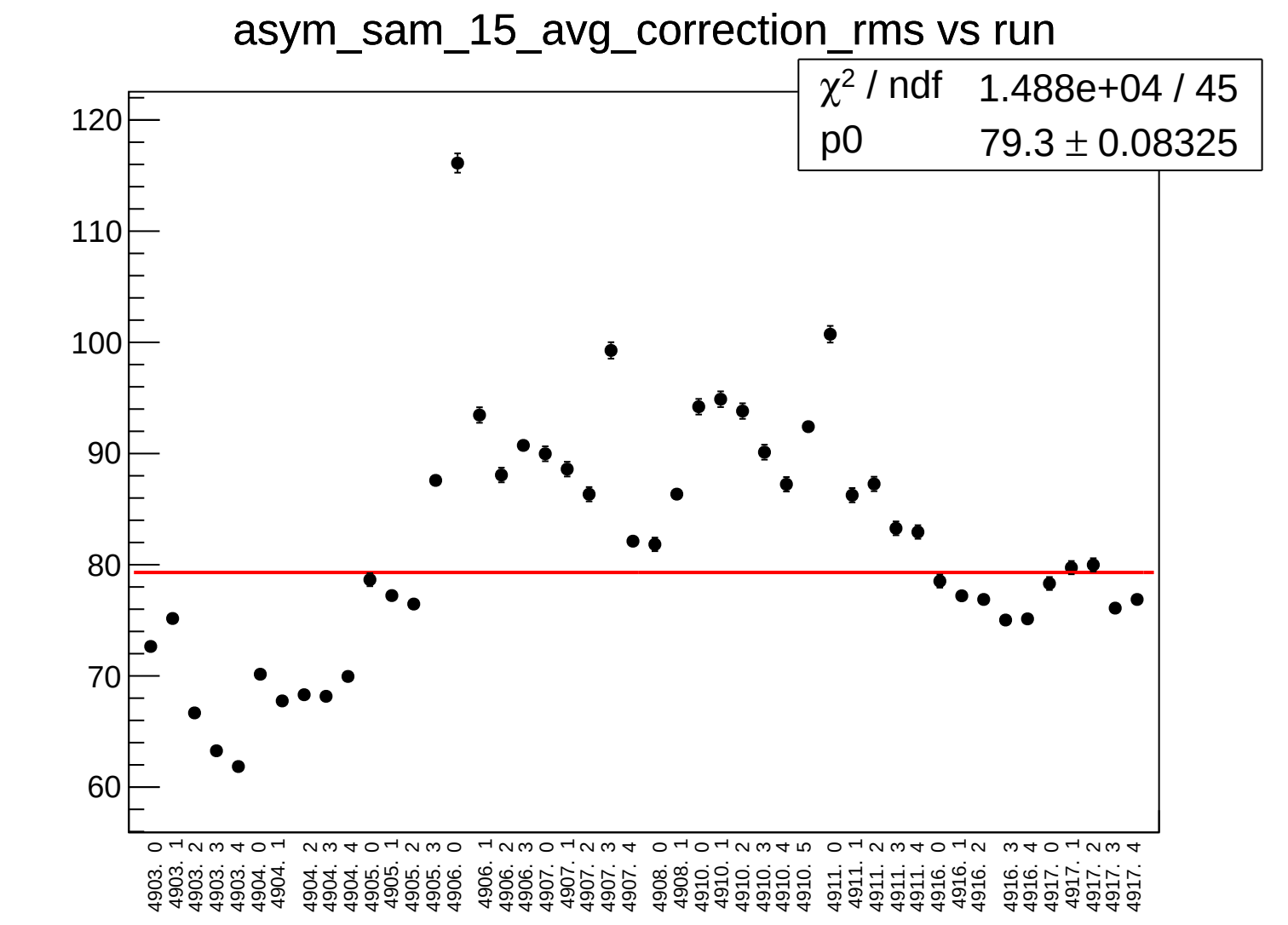

reg_asym_sam_15_avg_mean vs run
χ² / ndf 24.55 / 45
p0 32.53 ± 151.3
3000
2000
1000
0
−1000
−2000
−3000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −392.7
Std Dev 408.4
1.5
1
0.5
0
−0.5
−1
−1.5

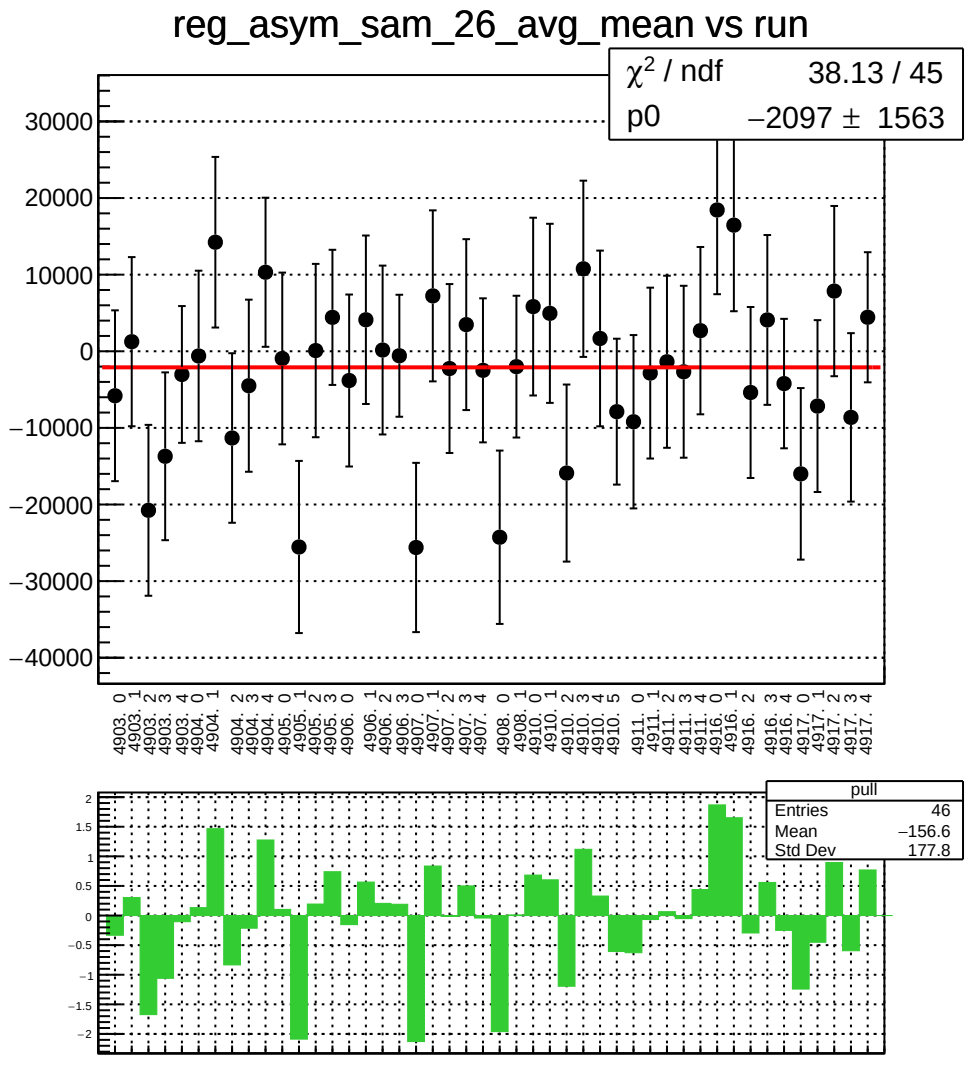

pull1D
Entries 46
Mean −0.001721
Std Dev 0.7305
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

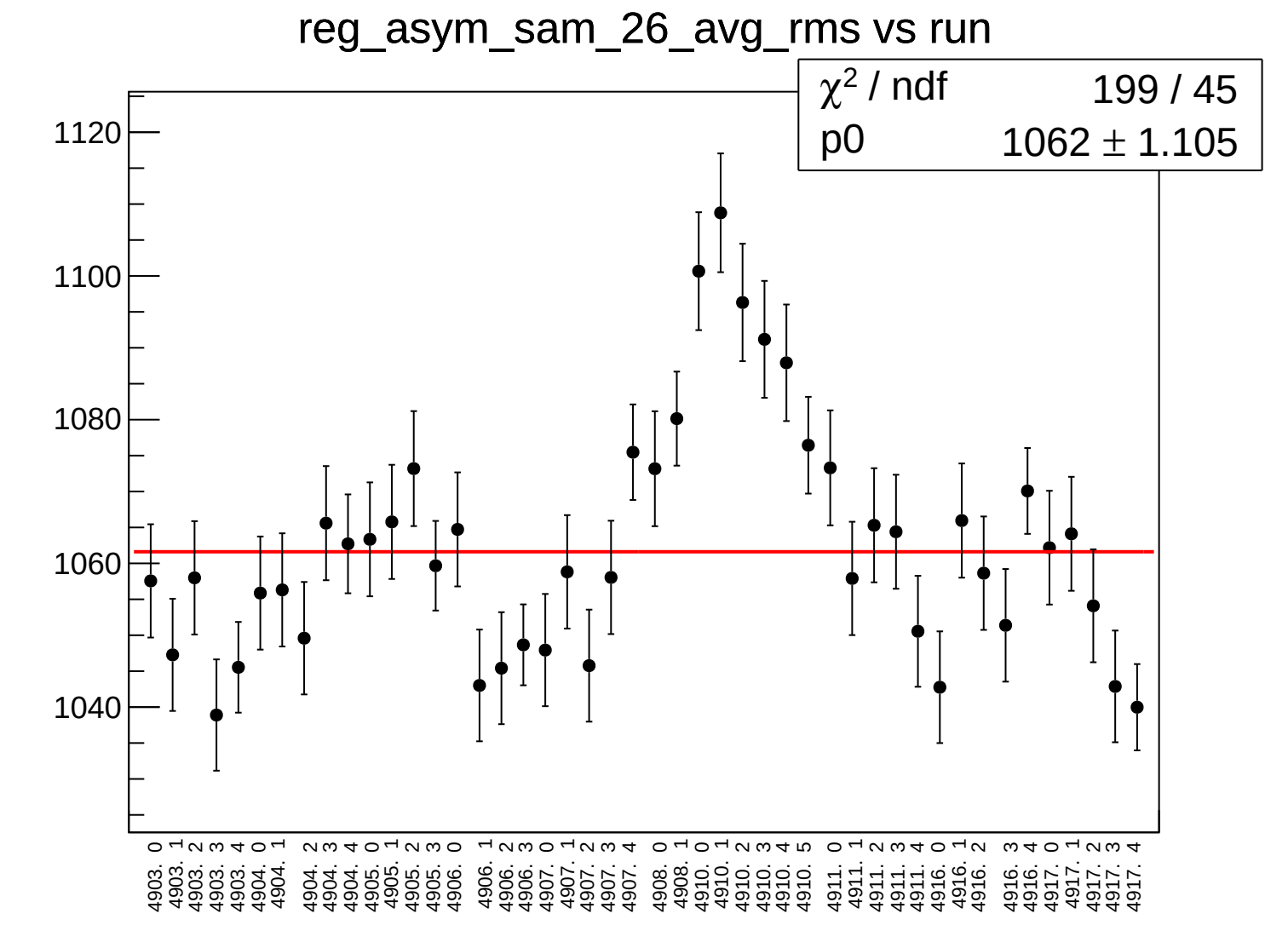

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.045e+04 / 45
p0 102.2 ± 0.107
125
120
115
110
105
100
95
90
85
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

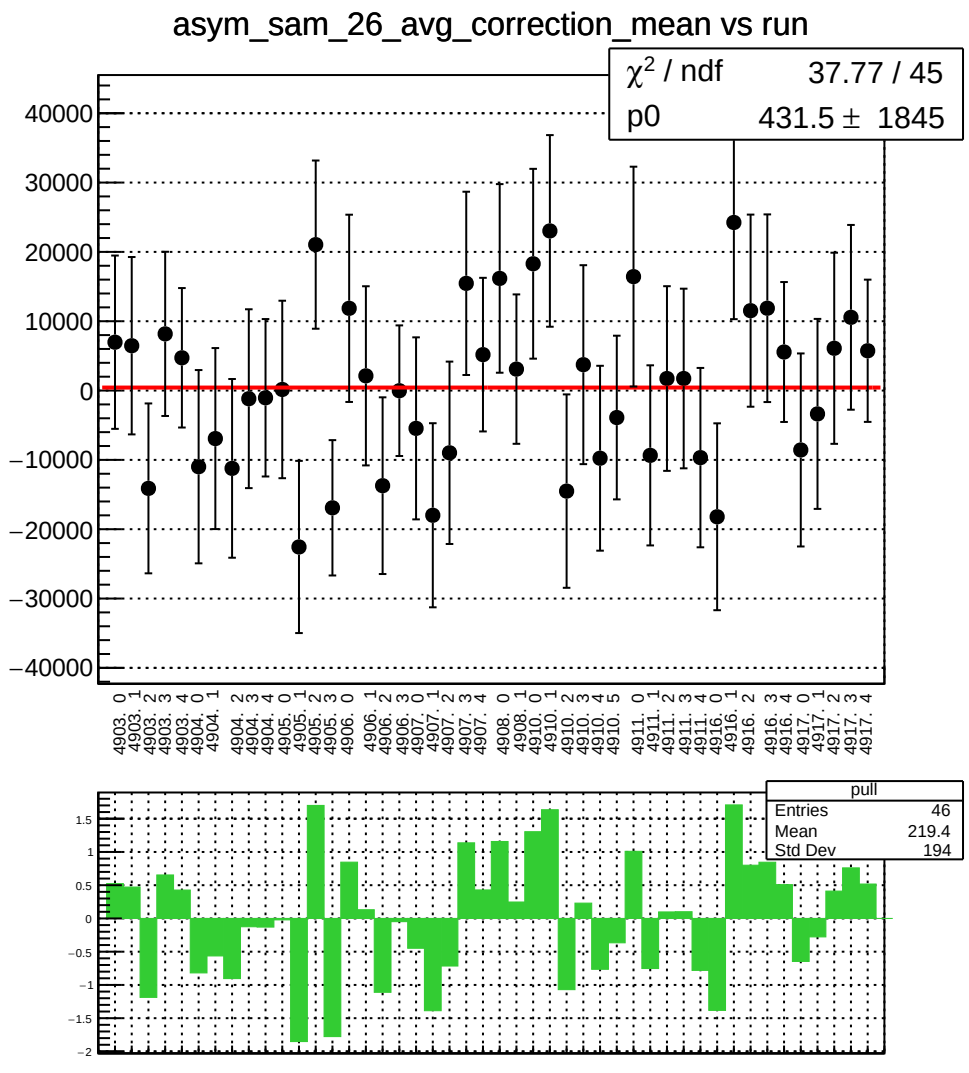

asym_sam_15_avg_correction_mean vs run
χ² / ndf 40.67 / 45
p0 12 ± 117.7
pull
Entries 46
Mean 256.9
Std Dev 232

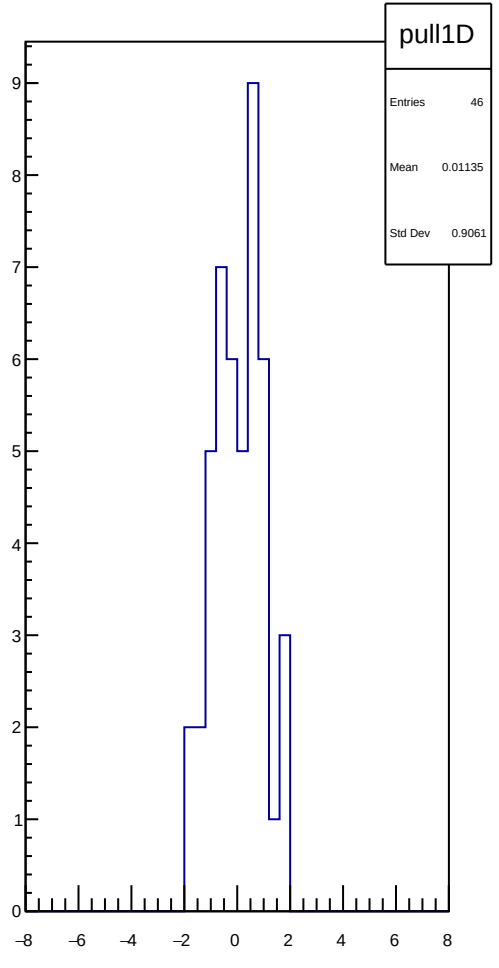

pull1D
Entries 46
Mean 0.01093
Std Dev 0.9403

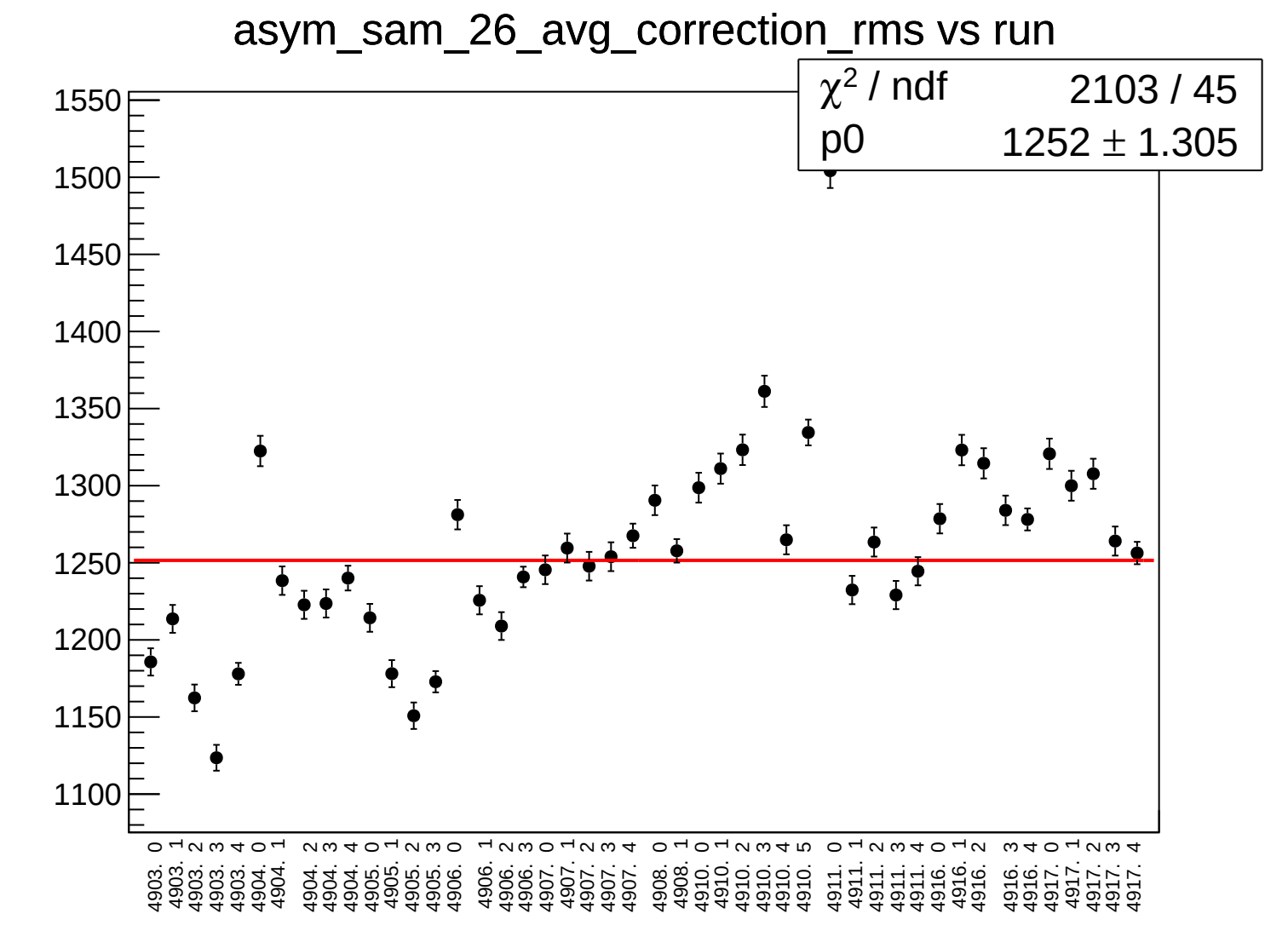

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.488e+04 / 45
p0 79.3 ± 0.08325
120
110
100
90
80
70
60
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

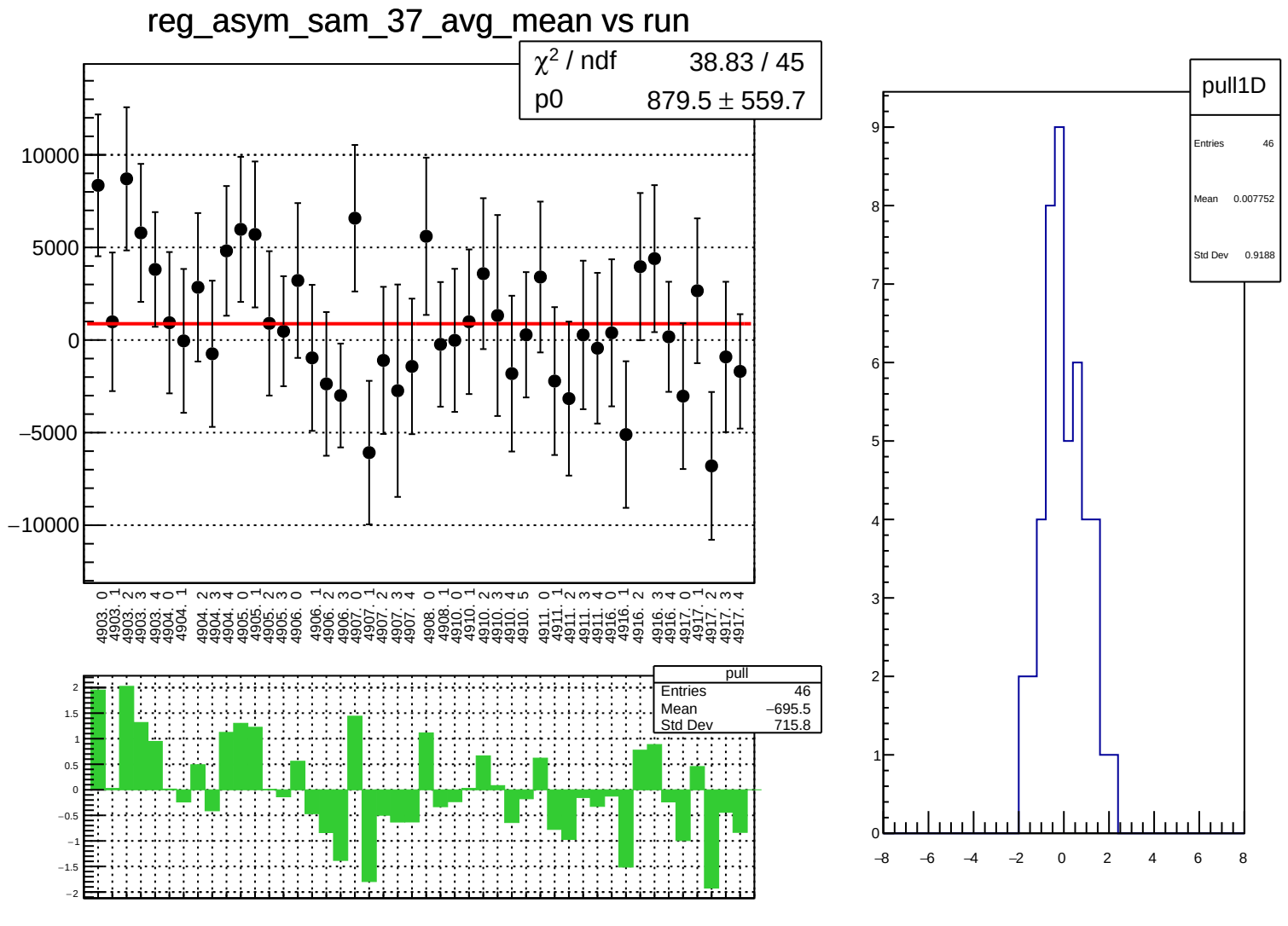

reg_asym_sam_26_avg_mean vs run
χ² / ndf 38.13 / 45
p0 −2097 ± 1563
pull
Entries 46
Mean −156.6
Std Dev 177.8
pull1D
Entries 46
Mean −0.01039
Std Dev 0.9103

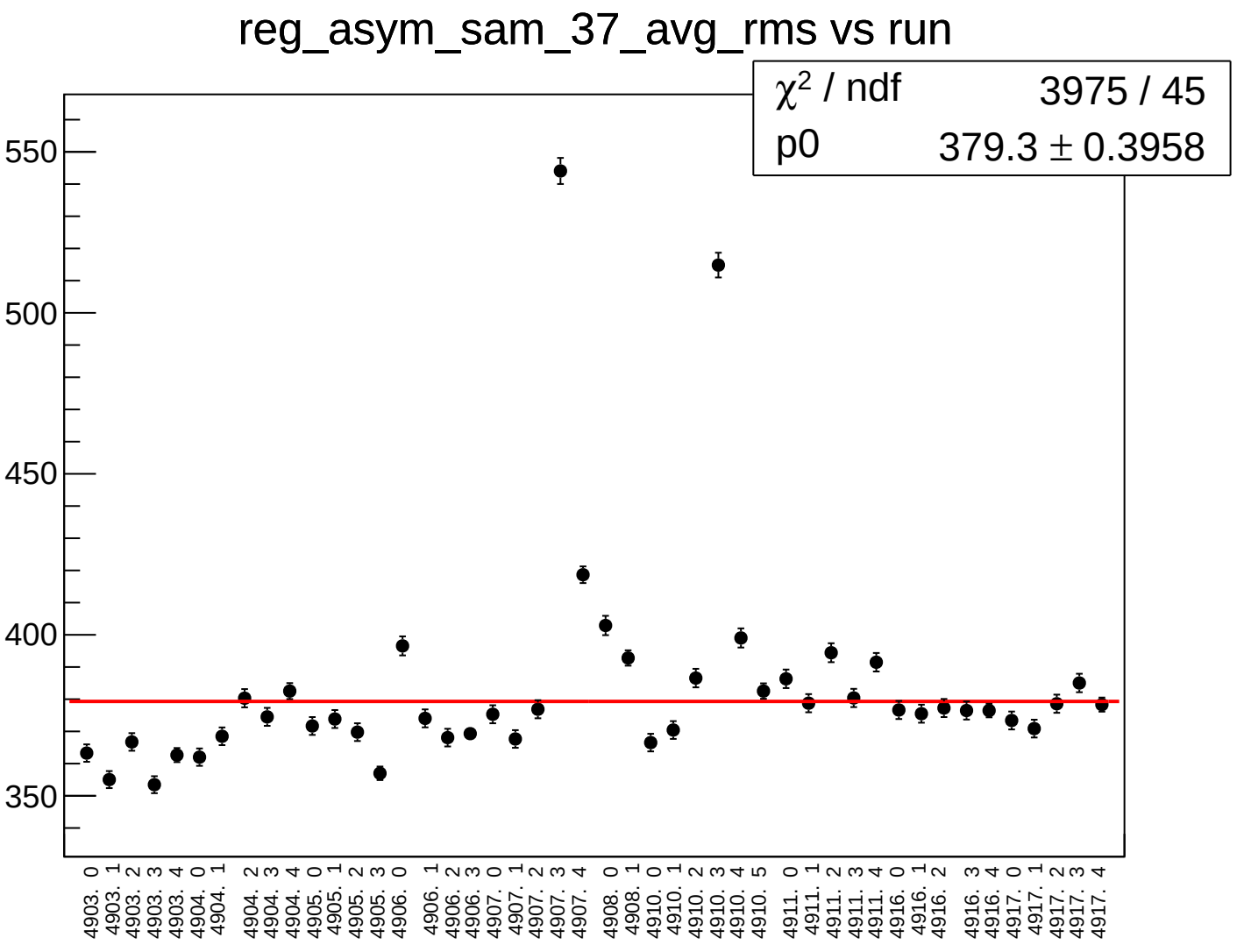

reg_asym_sam_26_avg_rms vs run
χ² / ndf 199 / 45
p0 1062 ± 1.105
1120
1100
1080
1060
1040
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

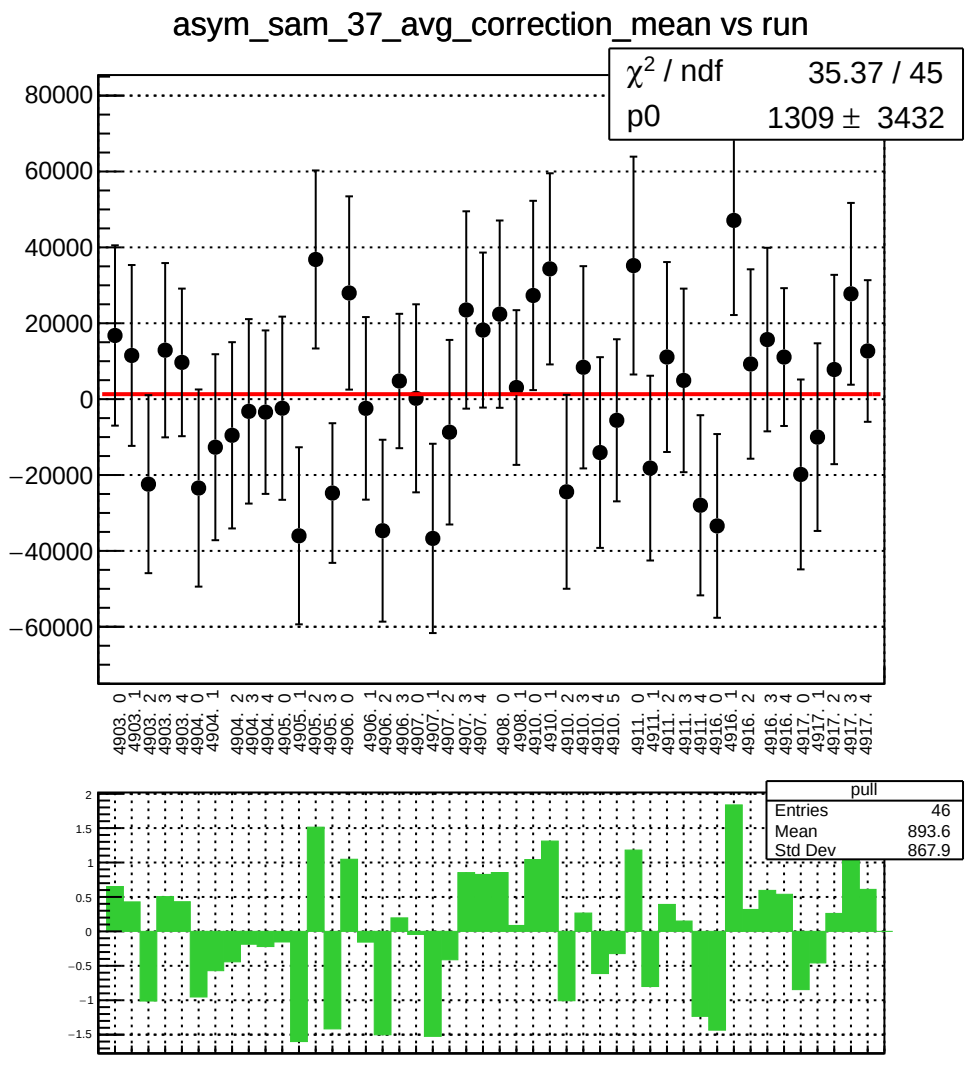

asym_sam_26_avg_correction_mean vs run
χ² / ndf 37.77 / 45
p0 431.5 ± 1845
pull
Entries 46
Mean 219.4
Std Dev 194

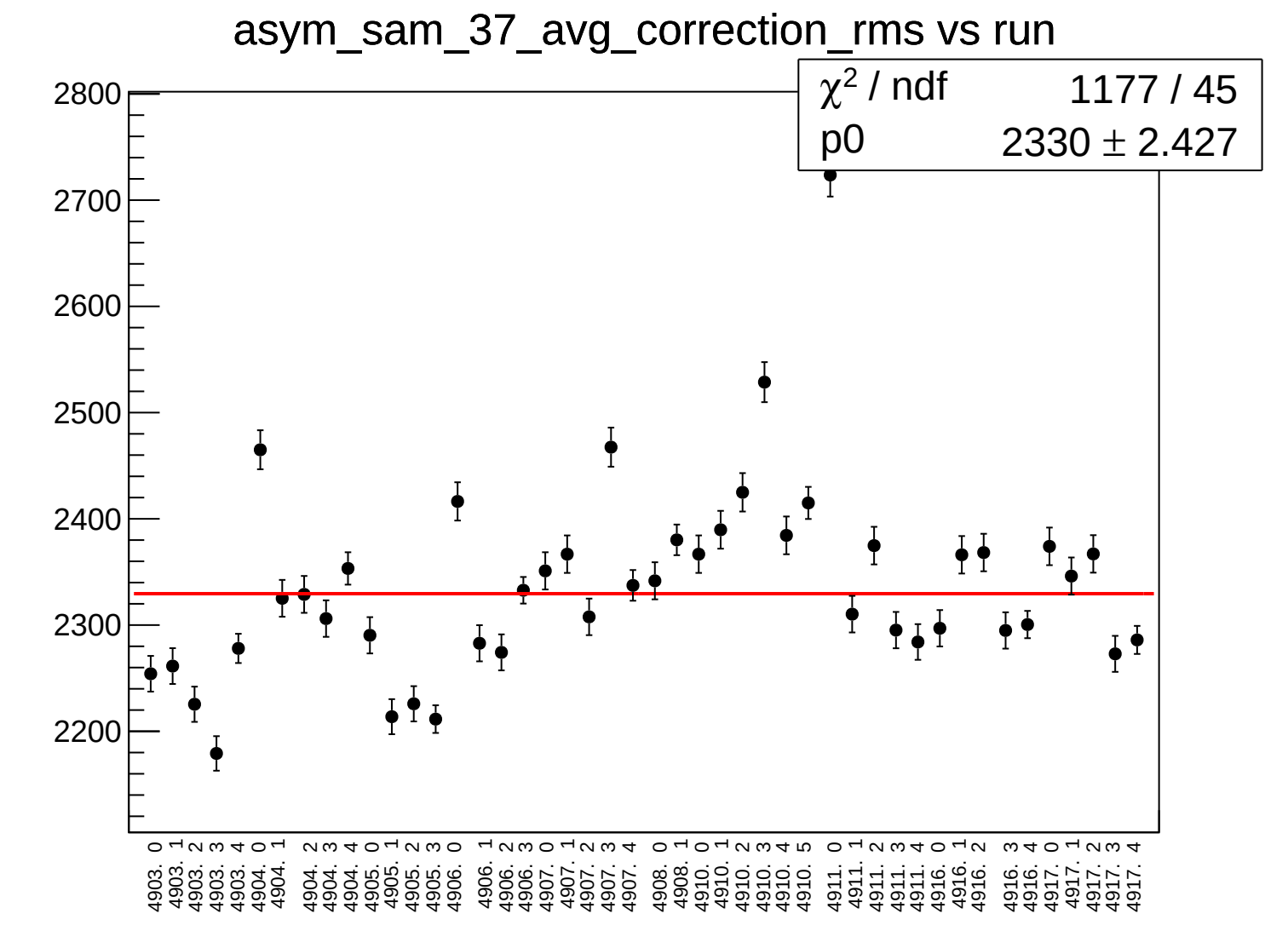

pull1D
Entries 46
Mean 0.01135
Std Dev 0.9061

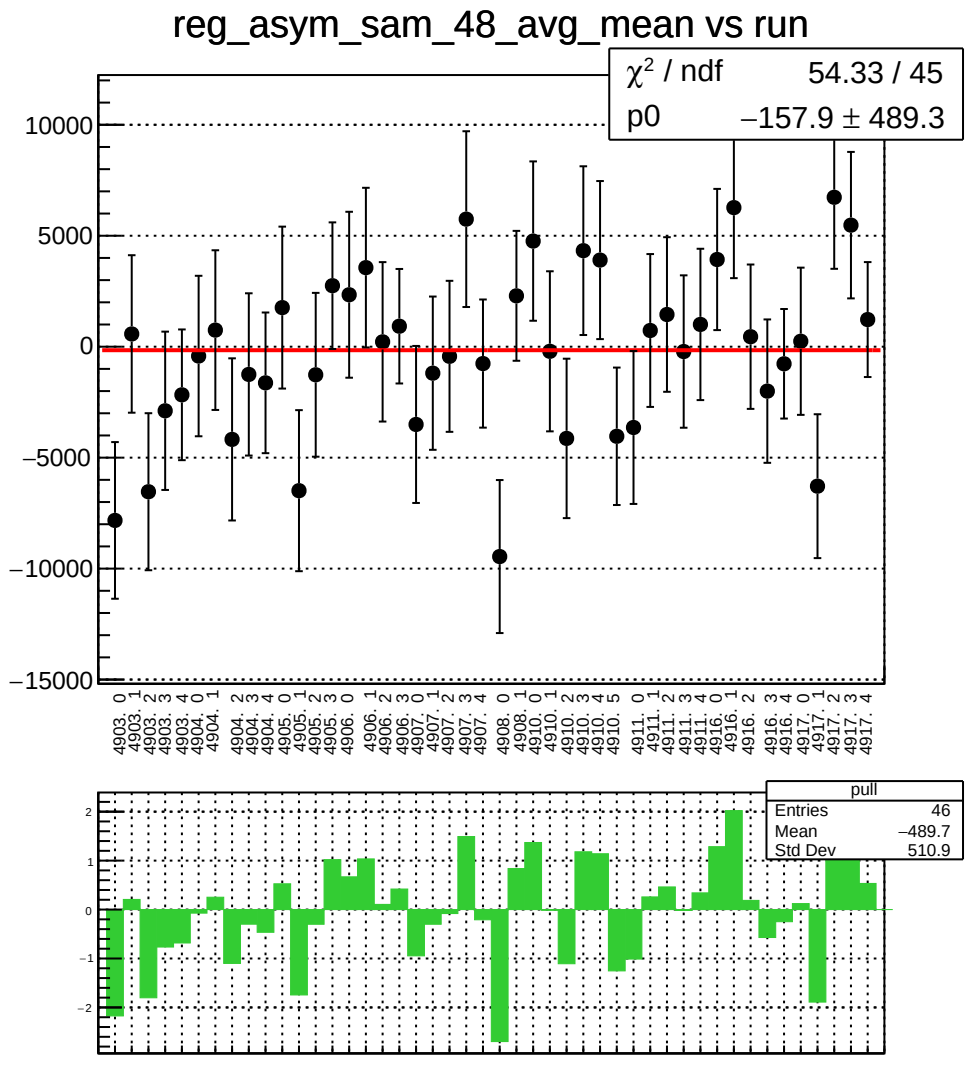

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2103 / 45
p0 1252 ± 1.305
1550
1500
1450
1400
1350
1300
1250
1200
1150
1100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

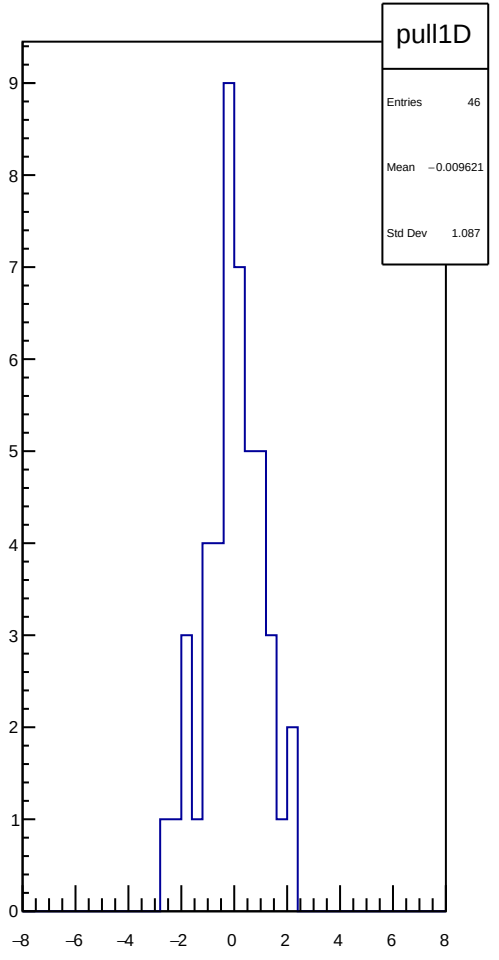

reg_asym_sam_37_avg_mean vs run
χ² / ndf 38.83 / 45
p0 879.5 ± 559.7
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −695.5
Std Dev 715.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007752
Std Dev 0.9188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

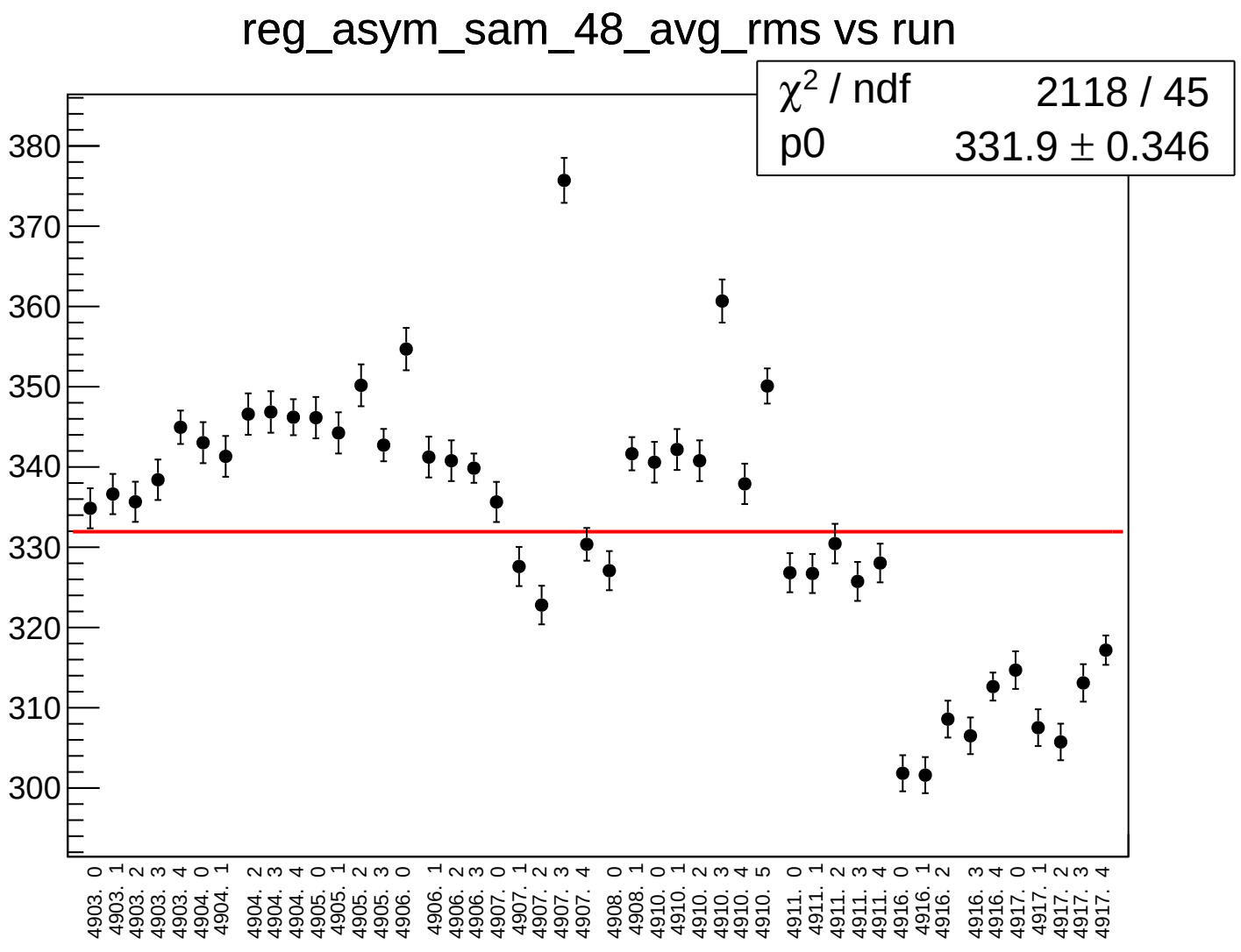

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3975 / 45
p0 379.3 ± 0.3958
550
500
450
400
350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

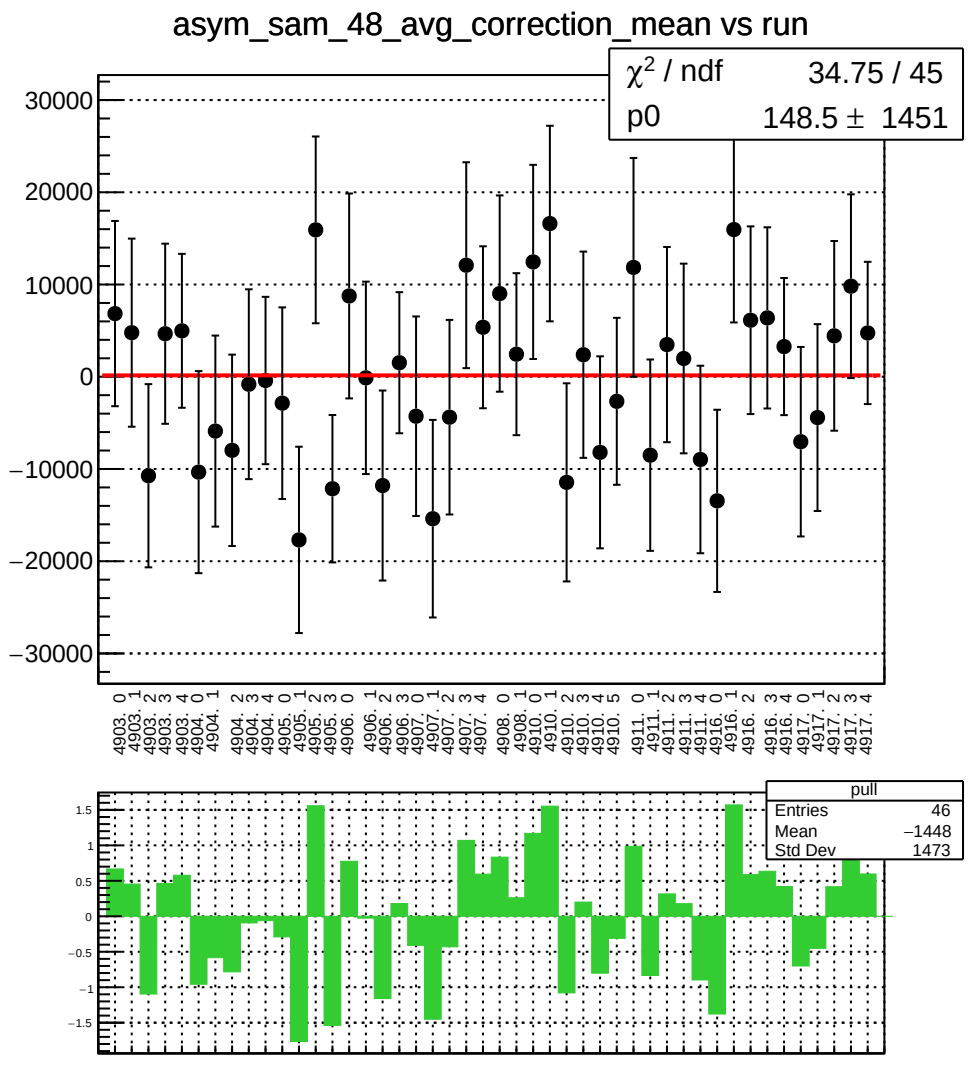

asym_sam_37_avg_correction_mean vs run
χ² / ndf 35.37 / 45
p0 1309 ± 3432
80000
60000
40000
20000
0
−20000
−40000
−60000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 893.6
Std Dev 867.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.002051
Std Dev 0.8769
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

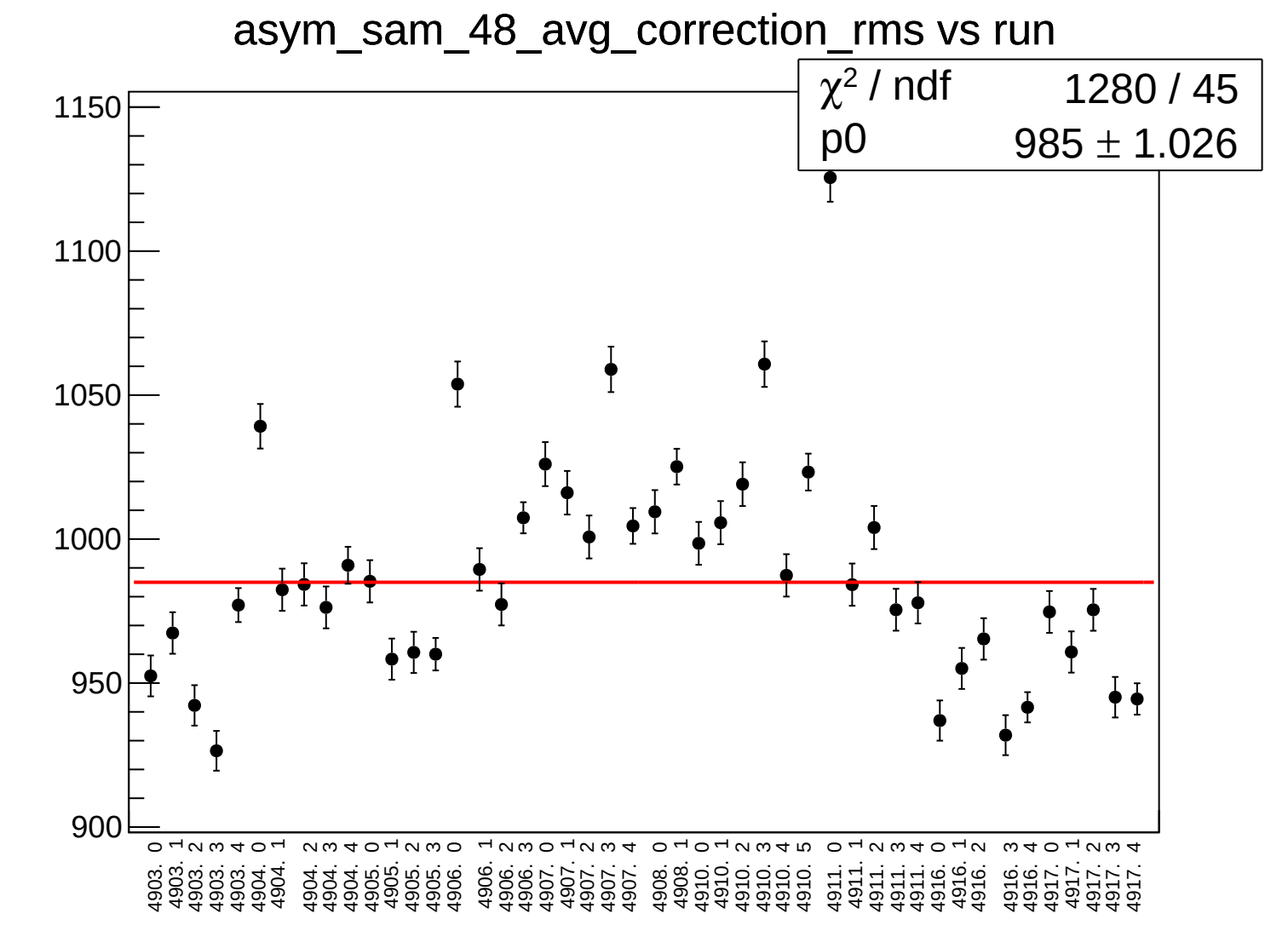

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1177 / 45
p0 2330 ± 2.427
2800
2700
2600
2500
2400
2300
2200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

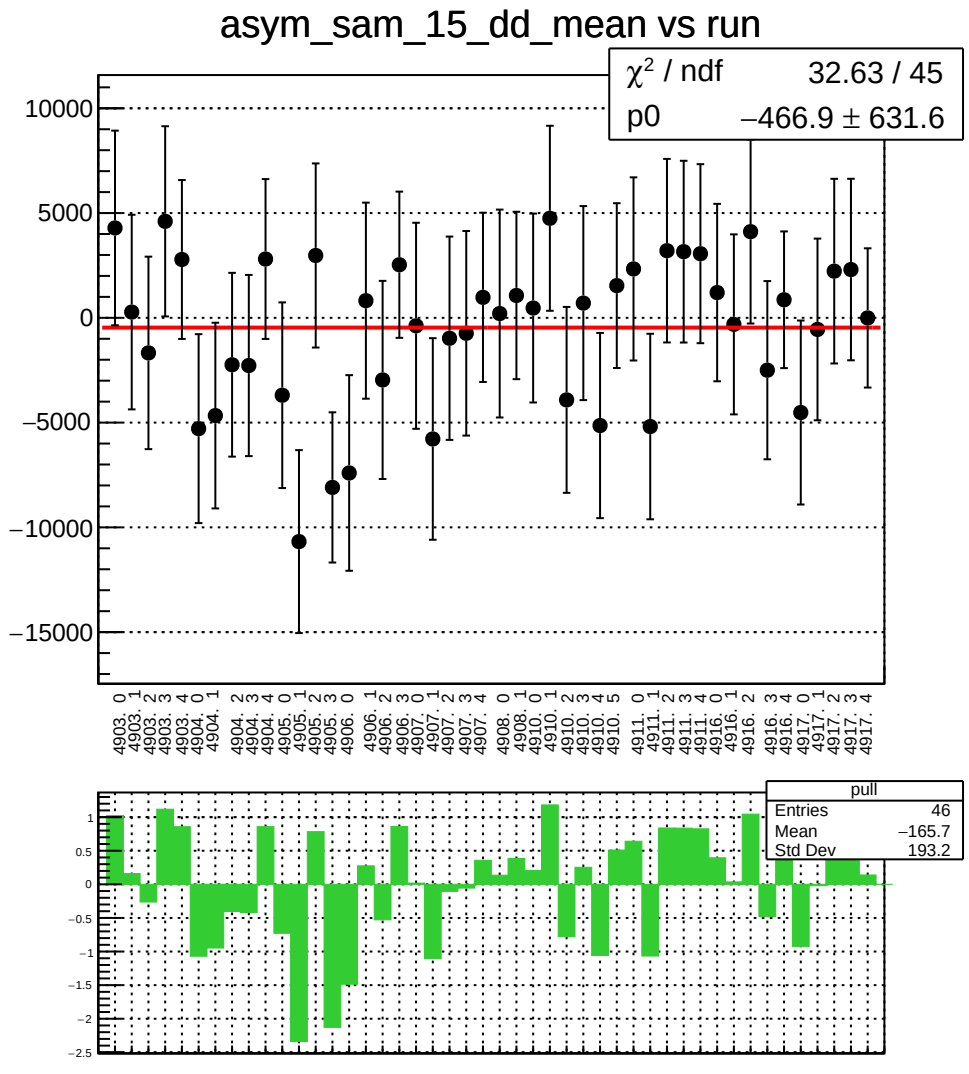

reg_asym_sam_48_avg_mean vs run
χ² / ndf 54.33 / 45
p0 −157.9 ± 489.3
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −489.7
Std Dev 510.9
2
1
0
−1
−2

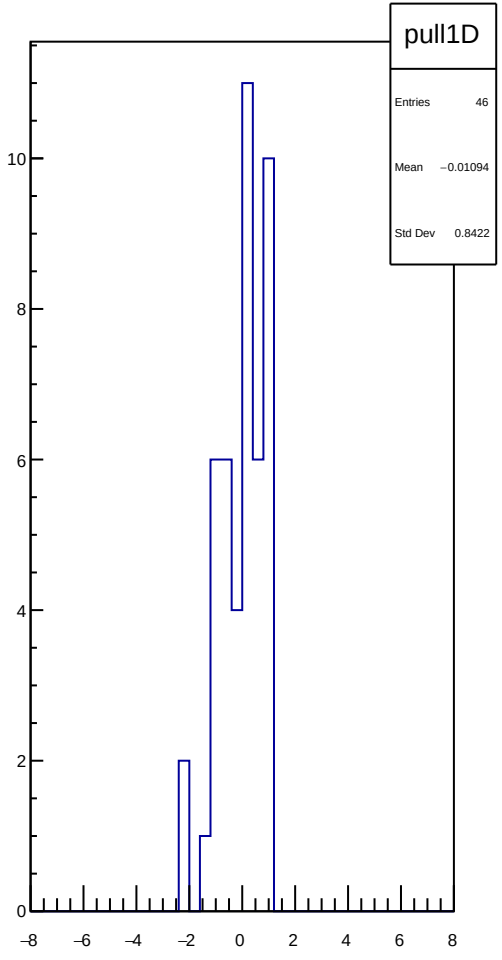

pull1D
Entries 46
Mean −0.009621
Std Dev 1.087
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

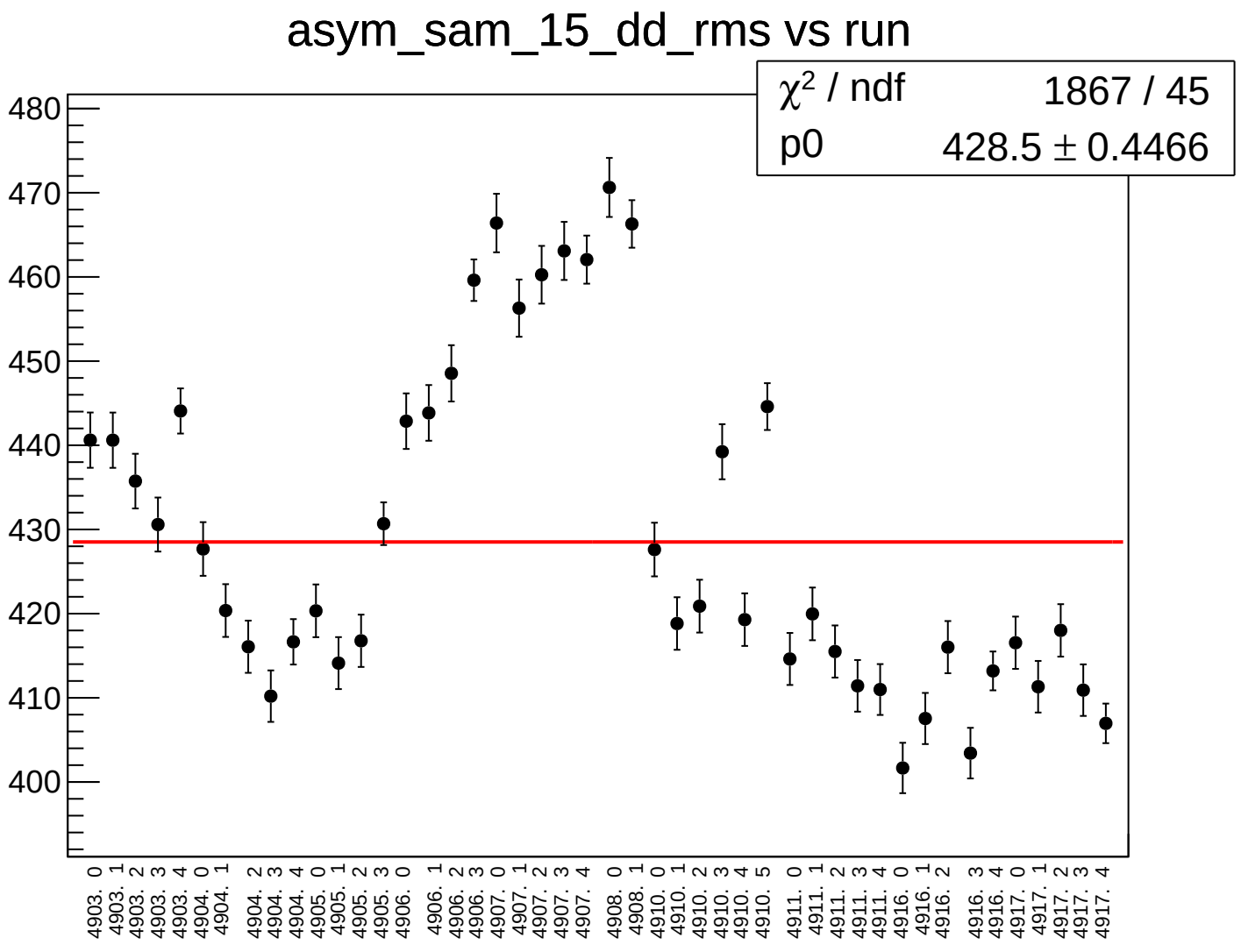

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2118 / 45
p0 331.9 ± 0.346
380
370
360
350
340
330
320
310
300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

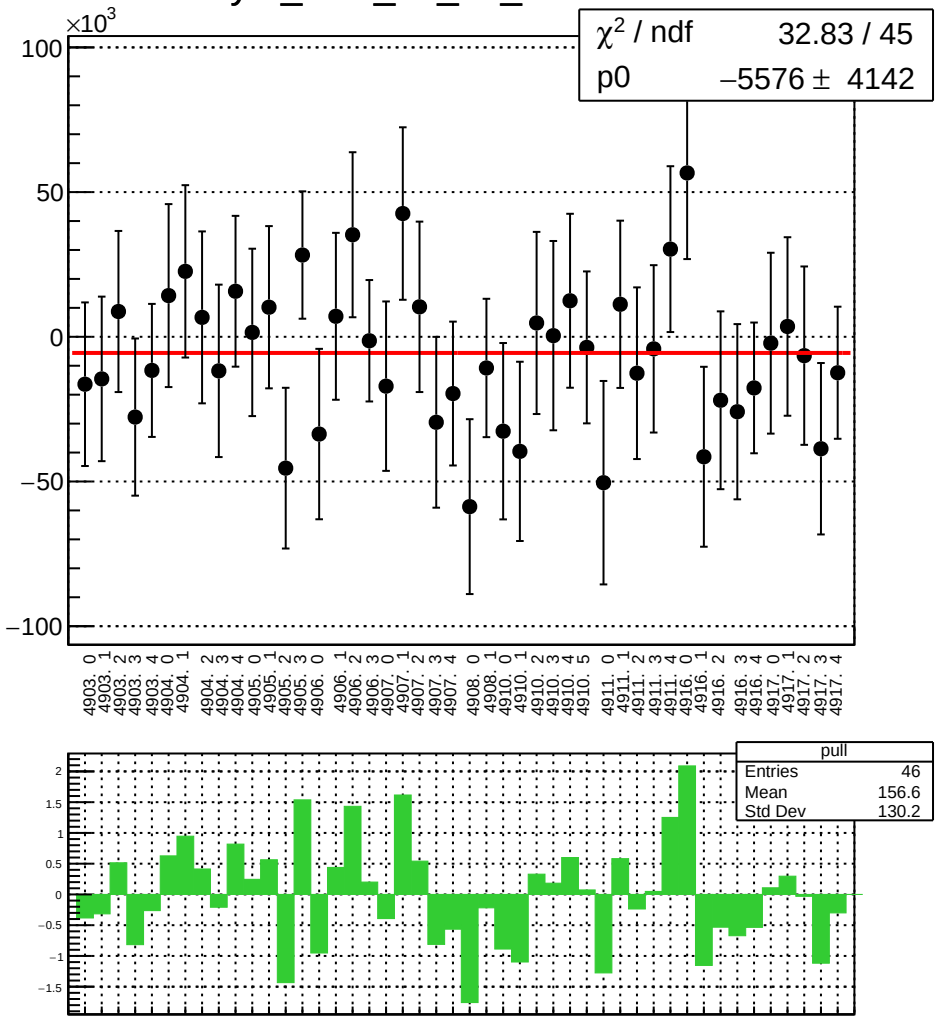

asym_sam_48_avg_correction_mean vs run
χ² / ndf 34.75 / 45
p0 148.5 ± 1451
30000
20000
10000
0
−10000
−20000
−30000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1448
Std Dev 1473
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.001356
Std Dev 0.8692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

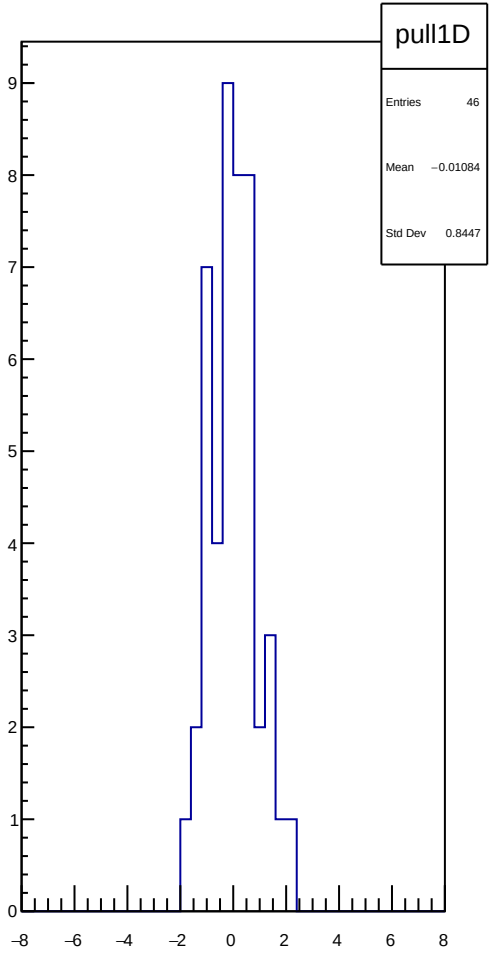

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1280 / 45
p0 985 ± 1.026
1150
1100
1050
1000
950
900
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

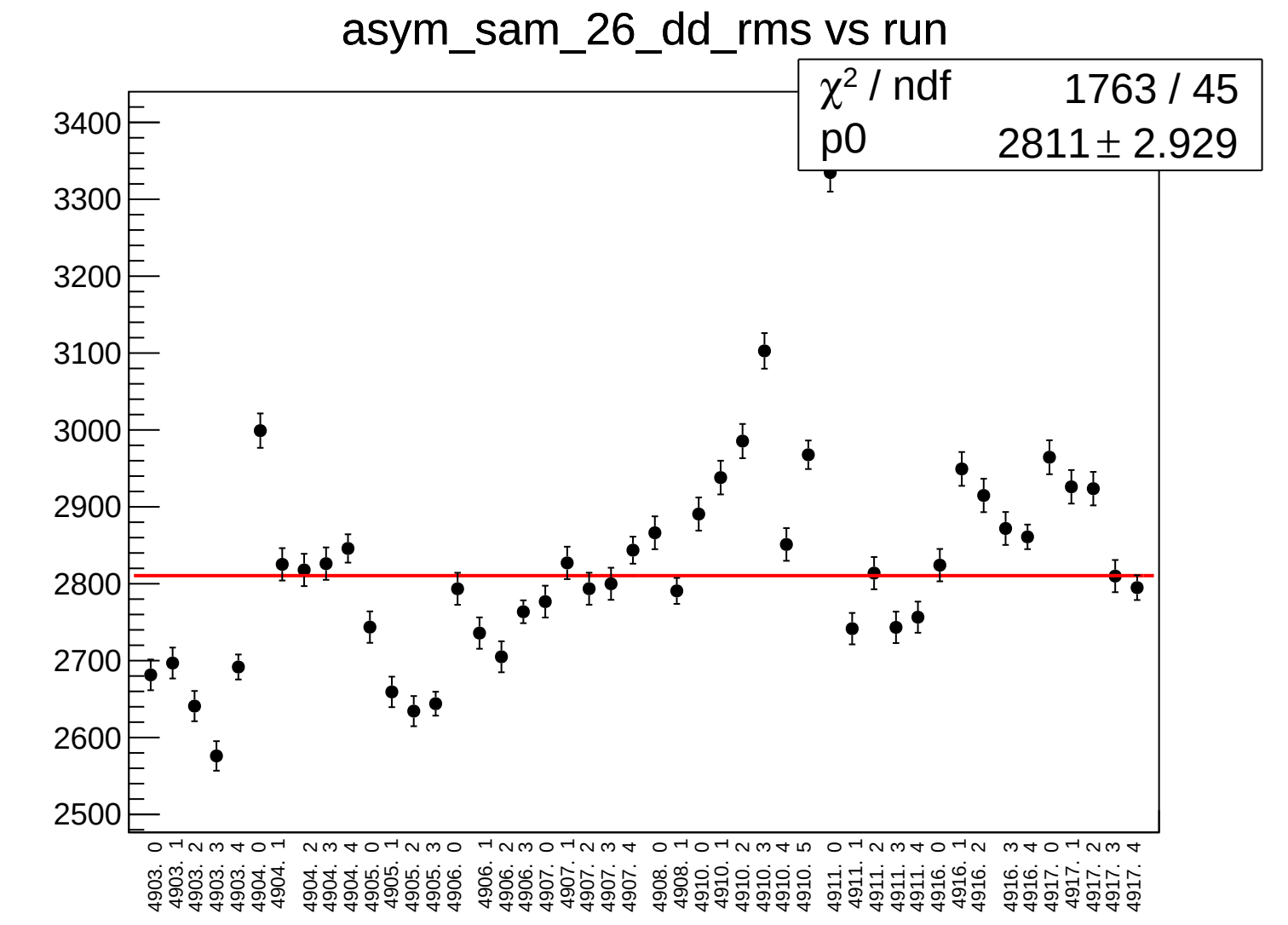

asym_sam_15_dd_mean vs run
χ² / ndf 32.63 / 45
p0 −466.9 ± 631.6
10000
5000
0
−5000
−10000
−15000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −165.7
Std Dev 193.2
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

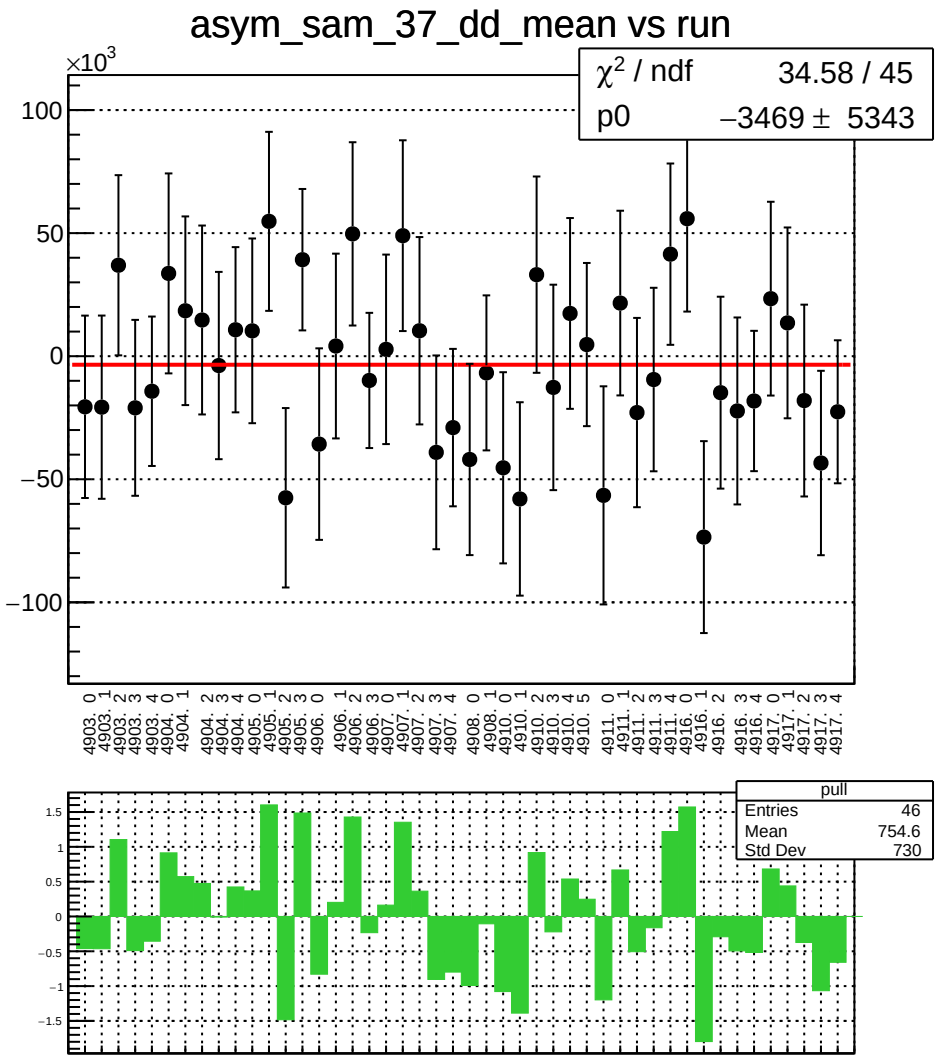

pull1D
Entries 46
Mean −0.01094
Std Dev 0.8422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

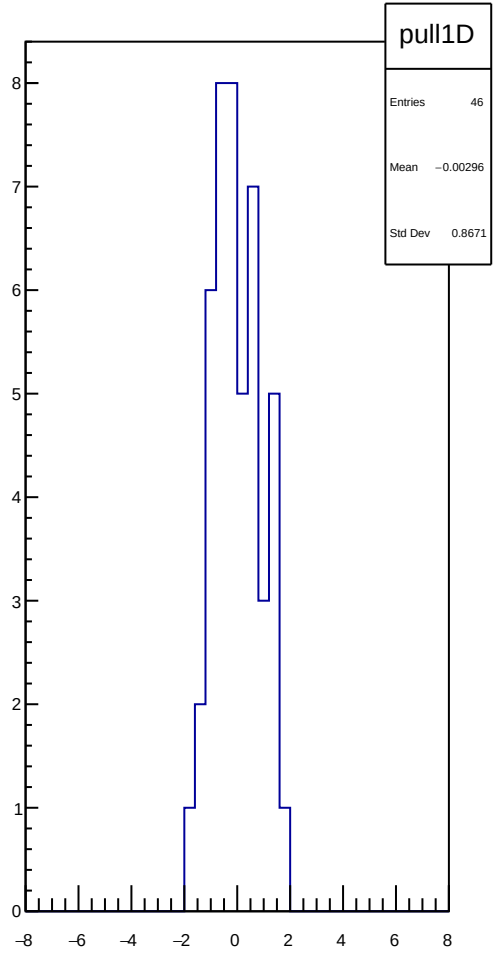

asym_sam_15_dd_rms vs run
χ² / ndf 1867 / 45
p0 428.5 ± 0.4466
480
470
460
450
440
430
420
410
400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

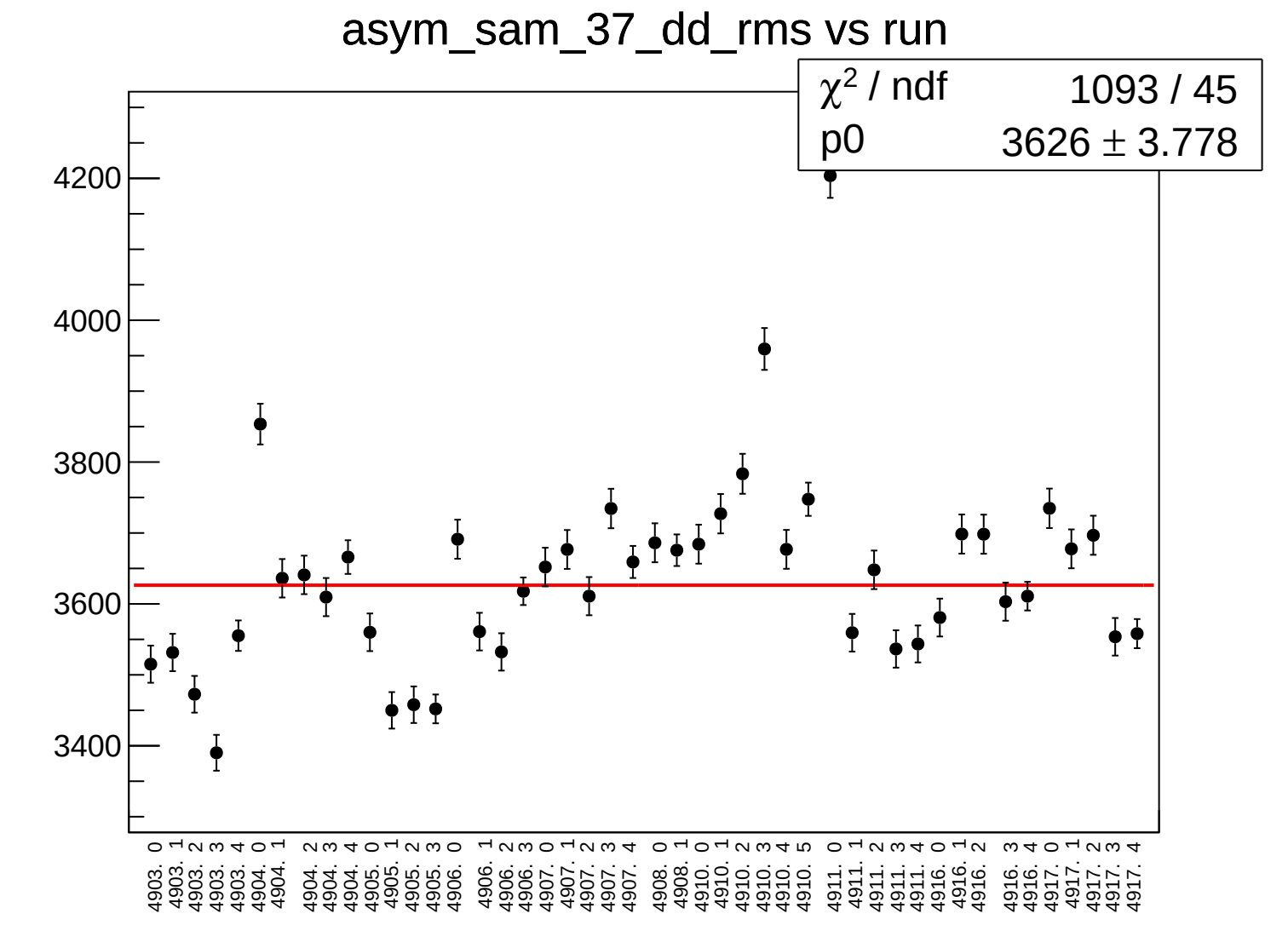

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 32.83 / 45
p0 −5576 ± 4142
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 156.6
Std Dev 130.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

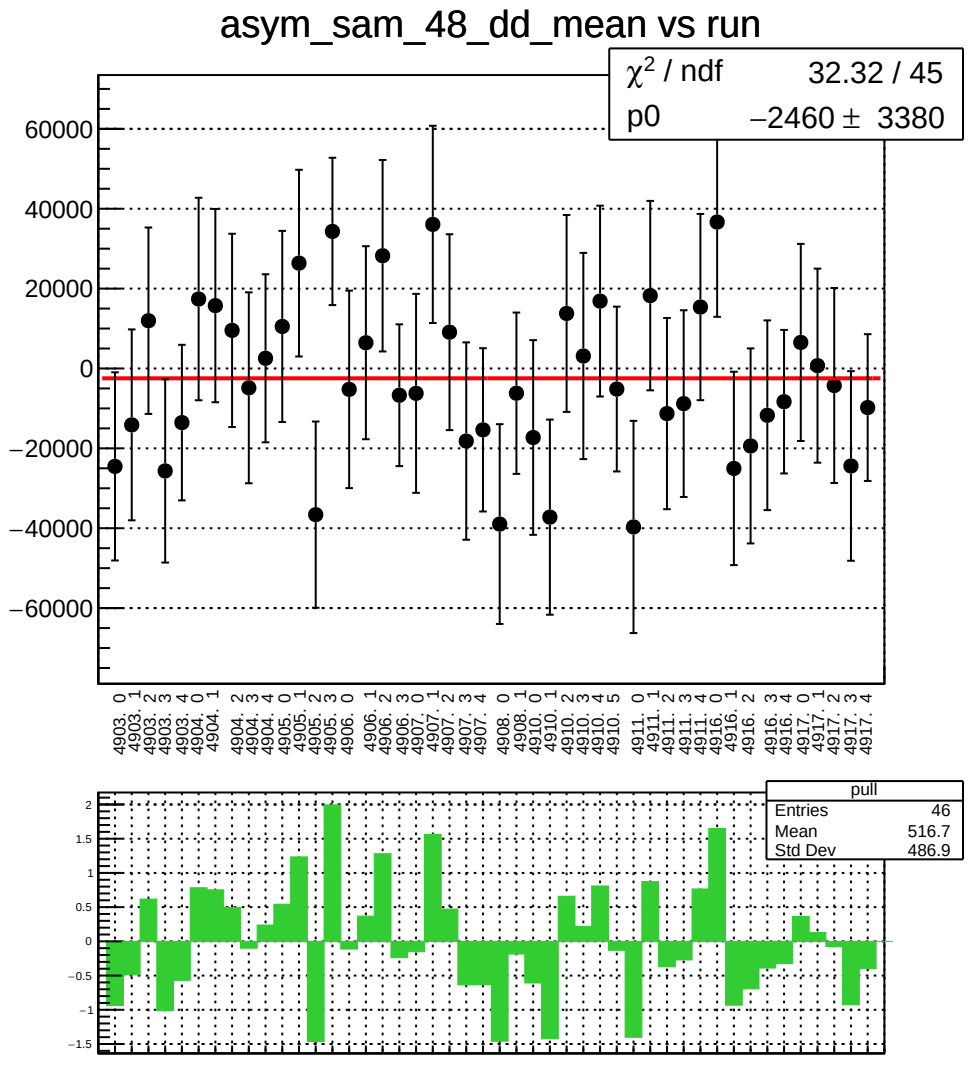

pull1D
Entries 46
Mean −0.01084
Std Dev 0.8447
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

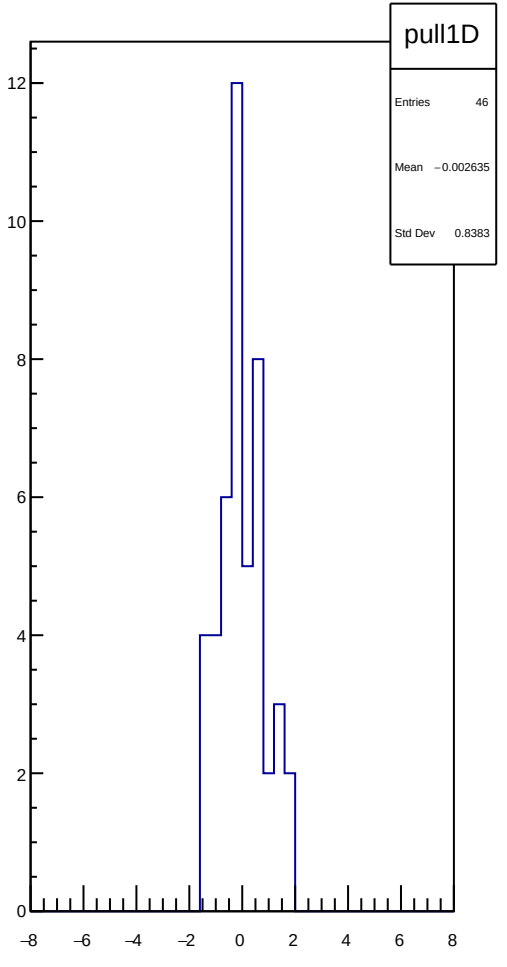

asym_sam_26_dd_rms vs run
χ² / ndf 1763 / 45
p0 2811 ± 2.929
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

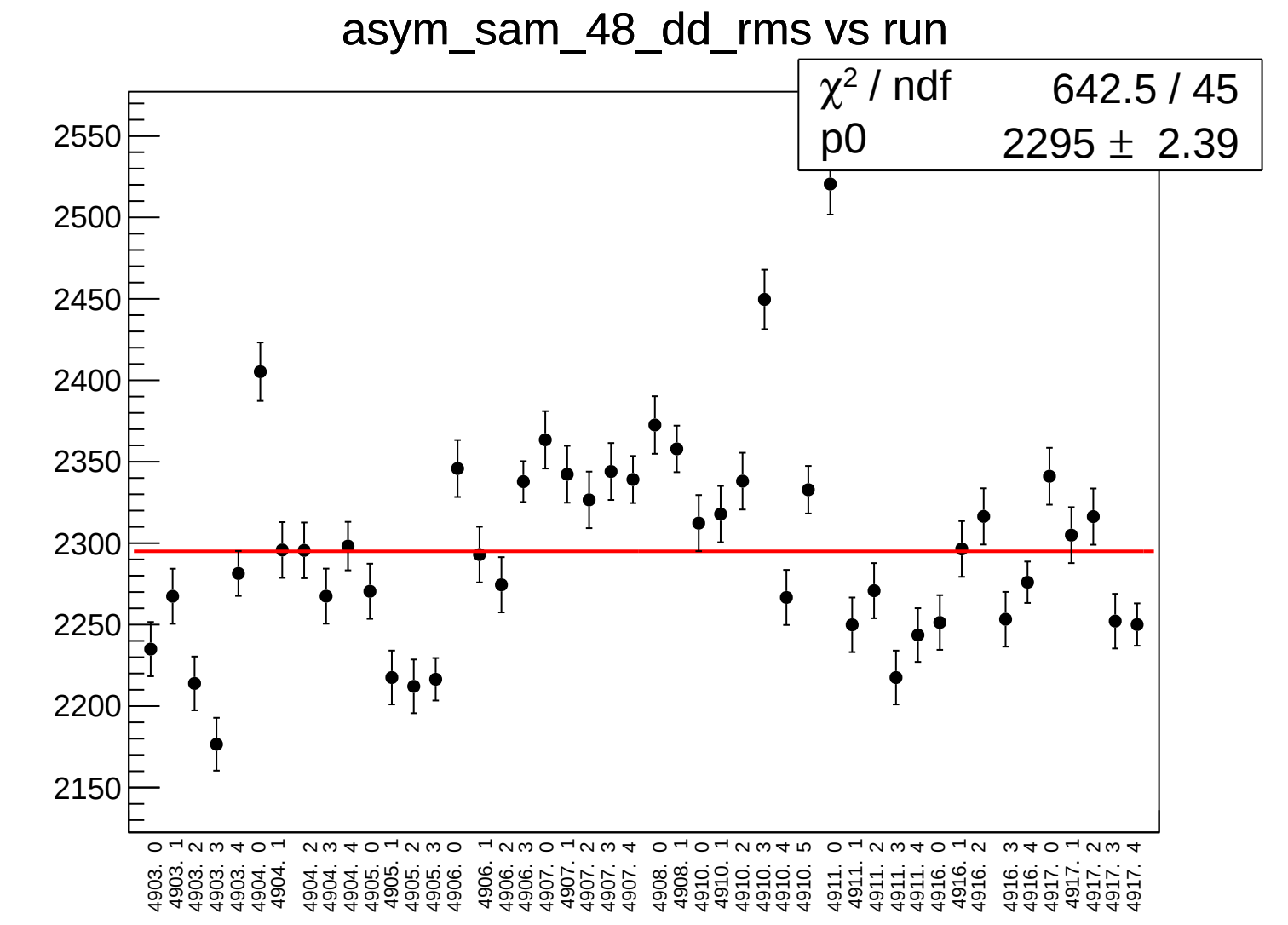

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 34.58 / 45
p0 −3469 ± 5343
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 754.6
Std Dev 730
1.5
1
0.5
0
−0.5
−1
−1.5

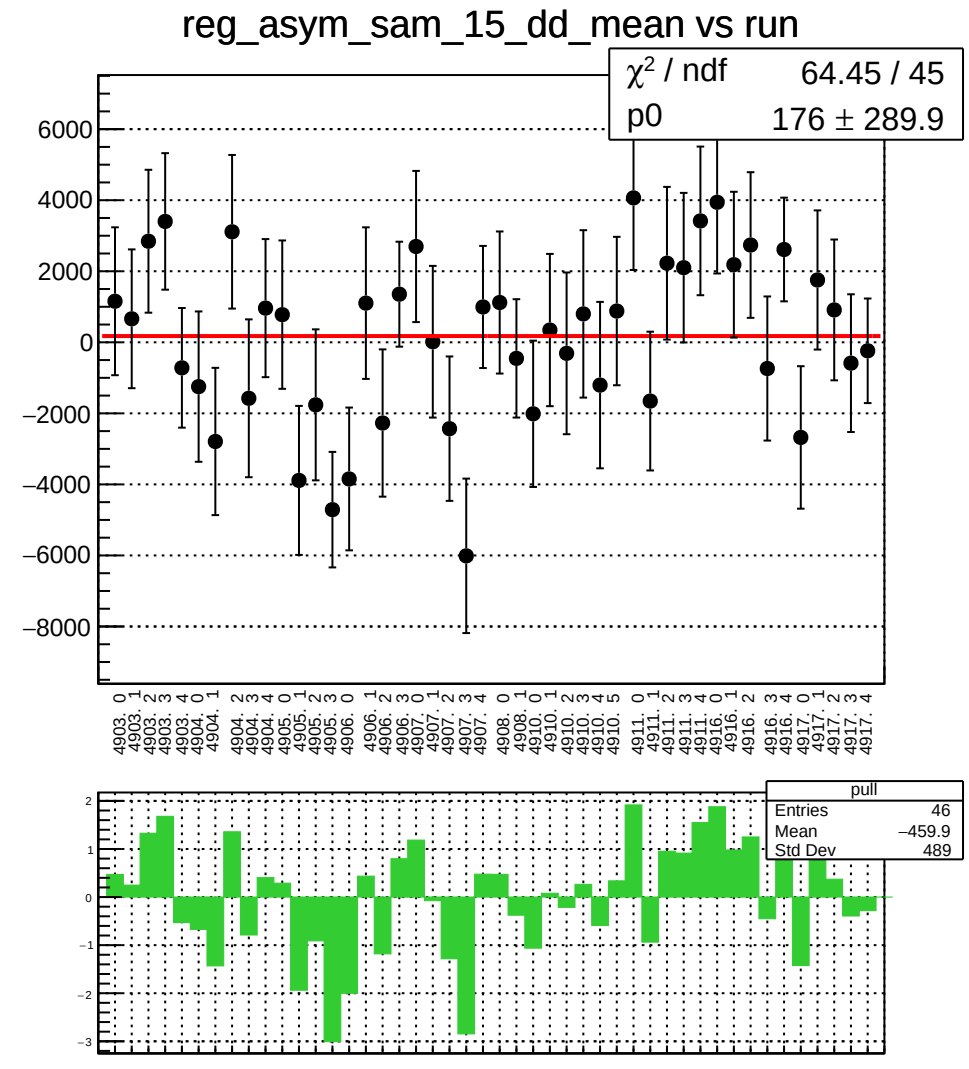

pull1D
Entries 46
Mean −0.00296
Std Dev 0.8671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

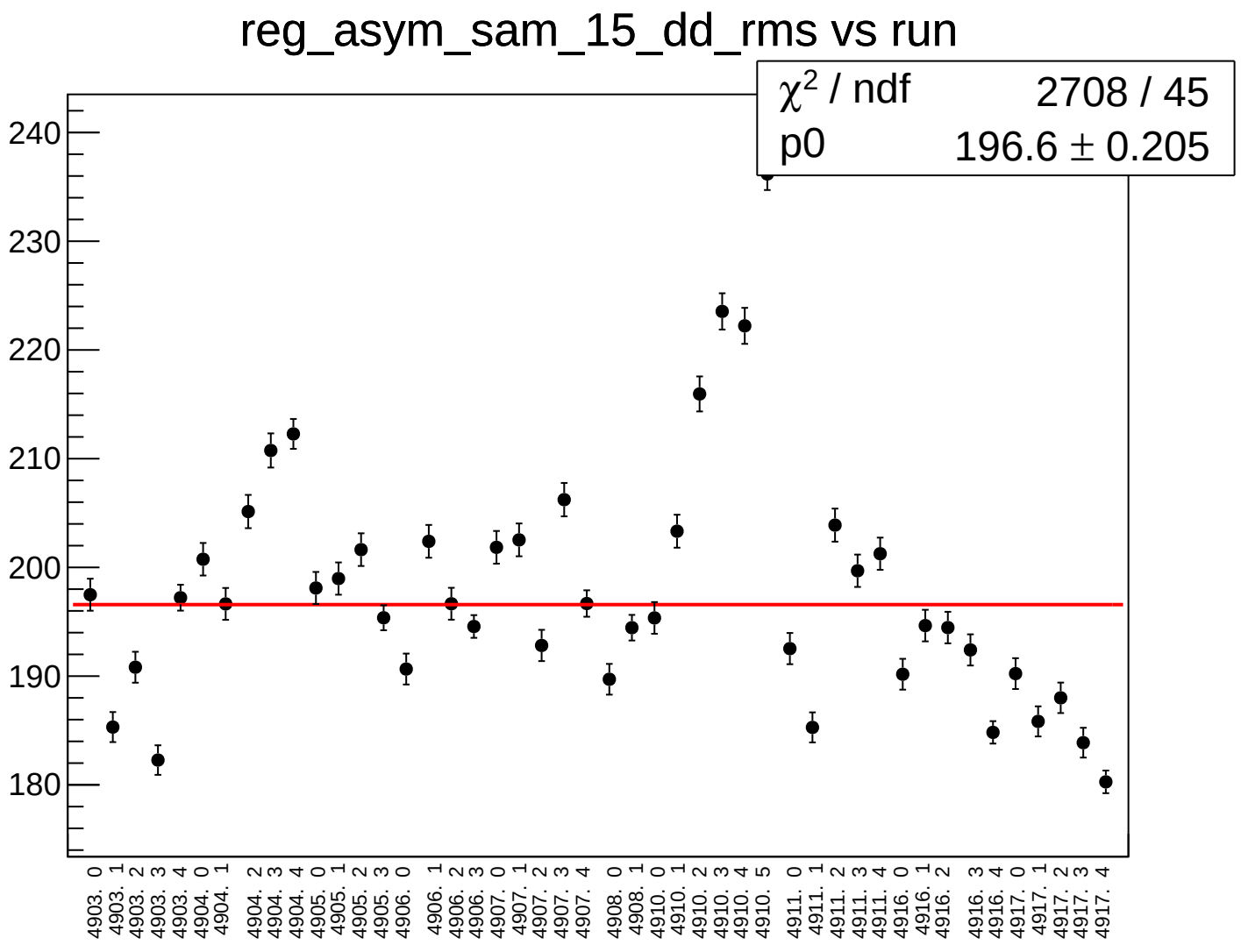

asym_sam_37_dd_rms vs run
χ² / ndf 1093 / 45
p0 3626 ± 3.778
4200
4000
3800
3600
3400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

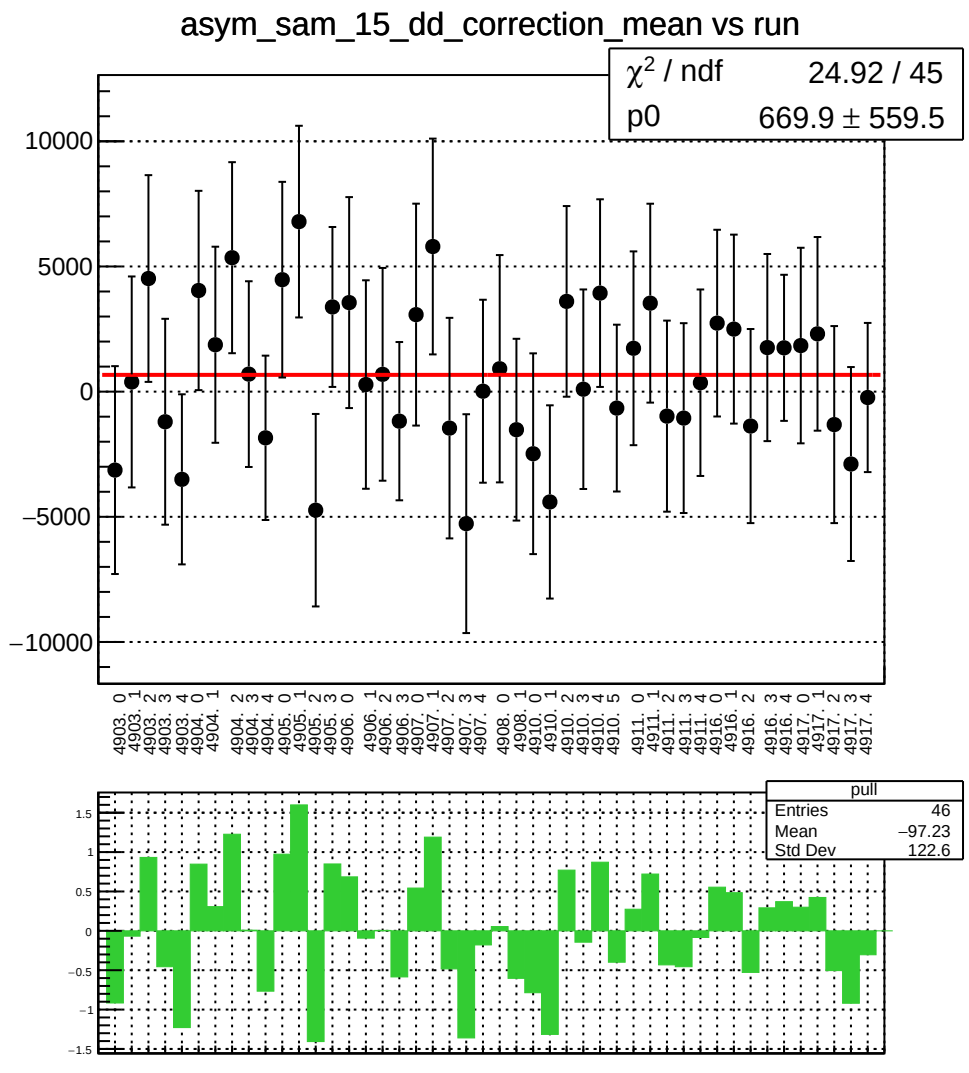

asym_sam_48_dd_mean vs run
χ² / ndf 32.32 / 45
p0 −2460 ± 3380
60000
40000
20000
0
−20000
−40000
−60000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 516.7
Std Dev 486.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

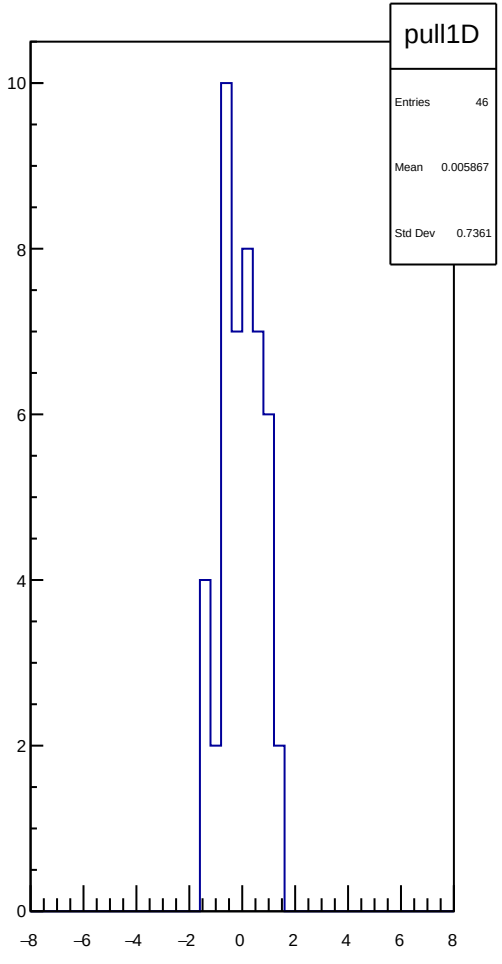

pull1D
Entries 46
Mean −0.002635
Std Dev 0.8383
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

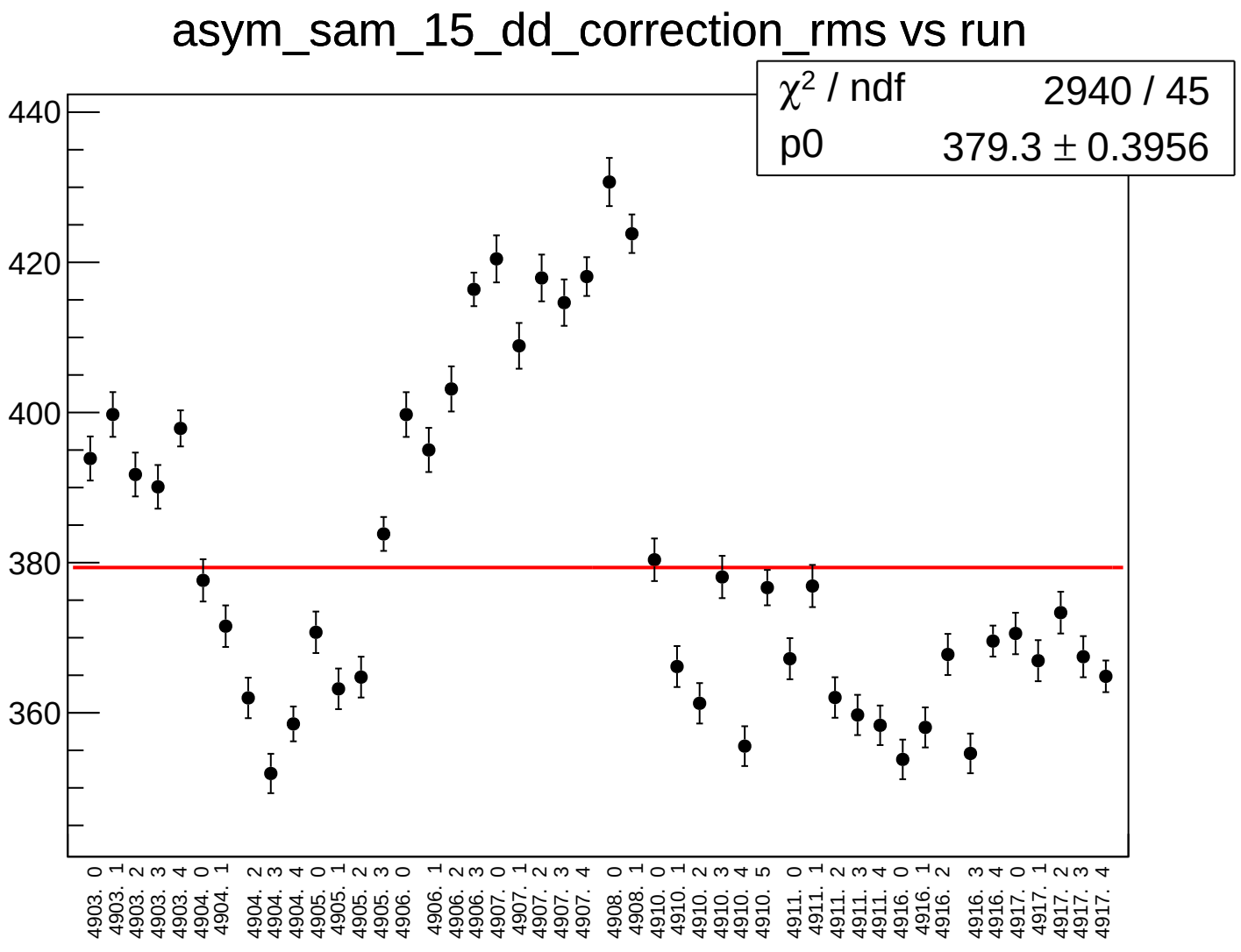

asym_sam_48_dd_rms vs run
χ² / ndf 642.5 / 45
p0 2295 ± 2.39
2550
2500
2450
2400
2350
2300
2250
2200
2150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

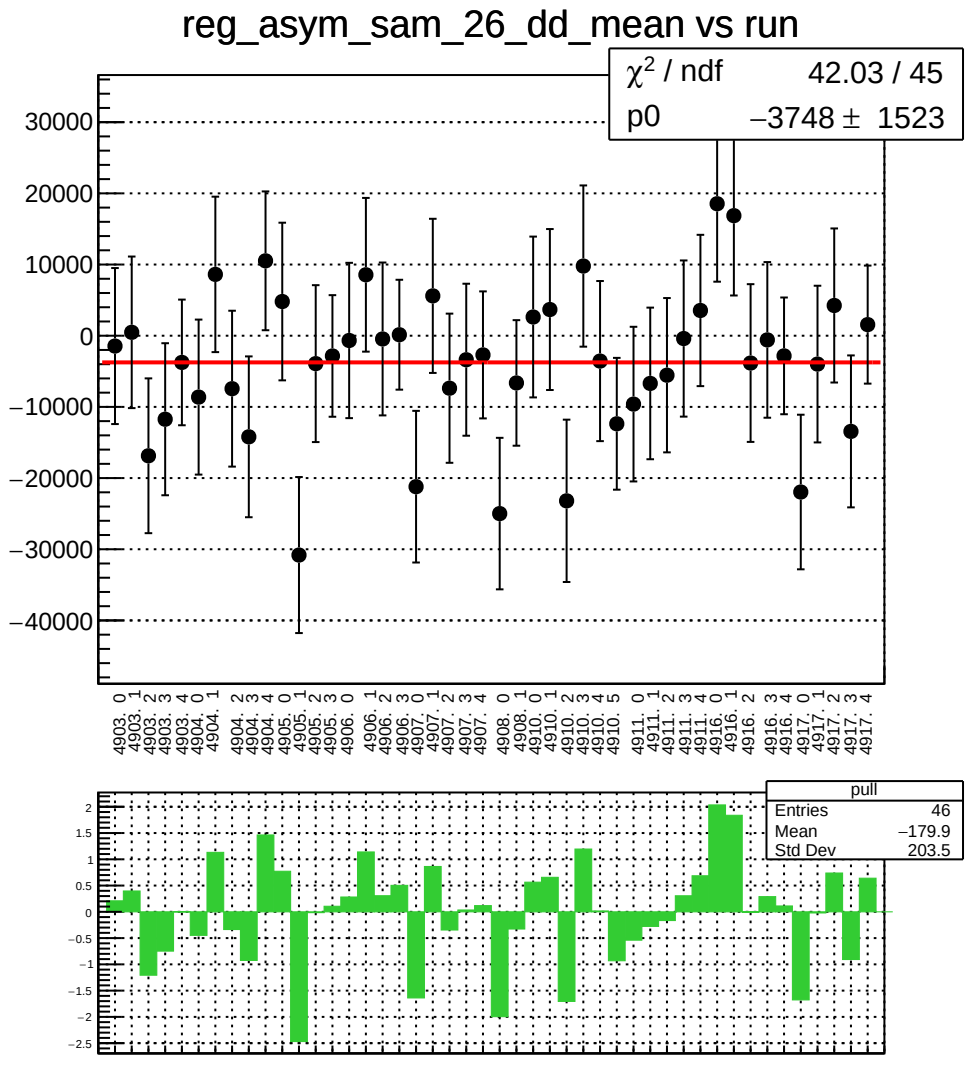

reg_asym_sam_15_dd_mean vs run
χ² / ndf 64.45 / 45
p0 176 ± 289.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −459.9
Std Dev 489
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006165
Std Dev 1.184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

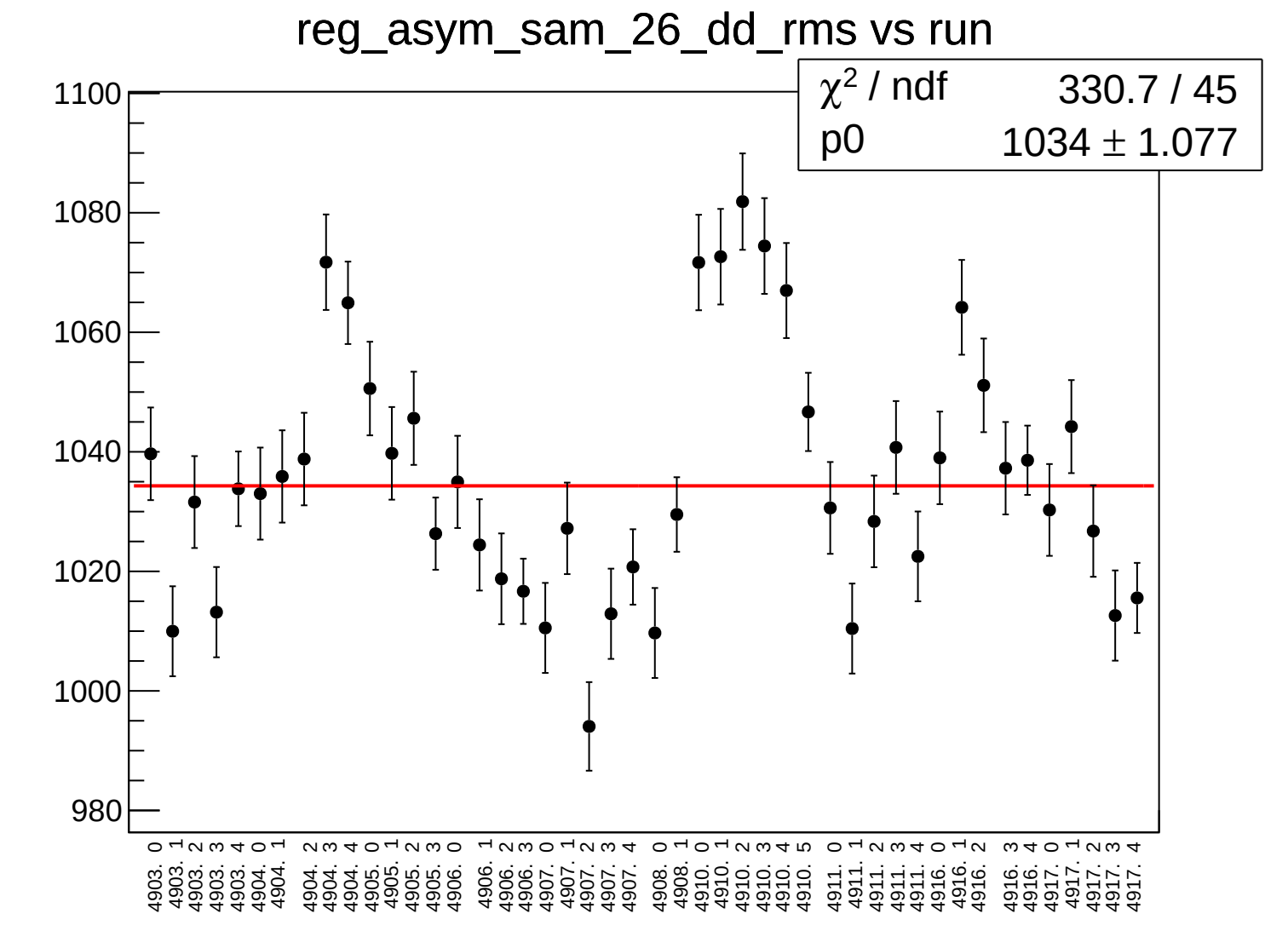

reg_asym_sam_15_dd_rms vs run
χ² / ndf 2708 / 45
p0 196.6 ± 0.205
240
230
220
210
200
190
180
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

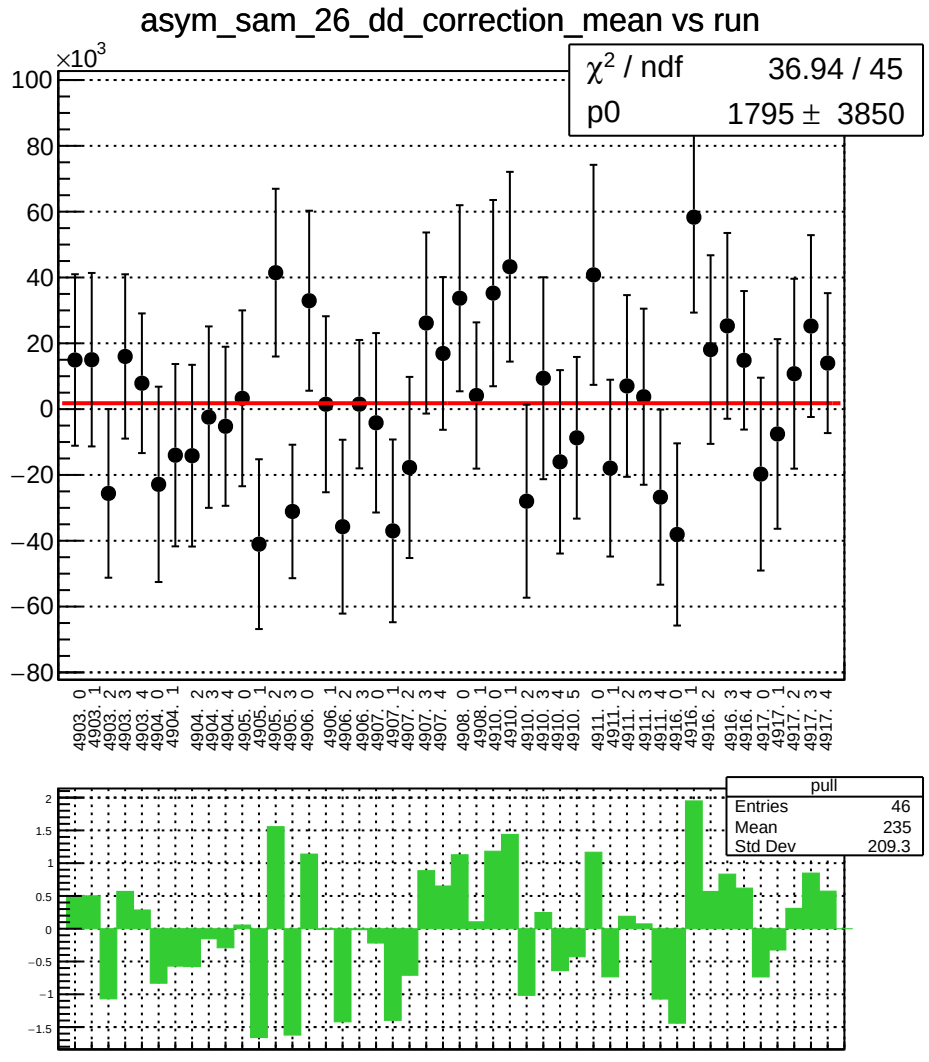

asym_sam_15_dd_correction_mean vs run
χ² / ndf 24.92 / 45
p0 669.9 ± 559.5
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −97.23
Std Dev 122.6
1.5
1
0.5
0
−0.5
−1
−1.5

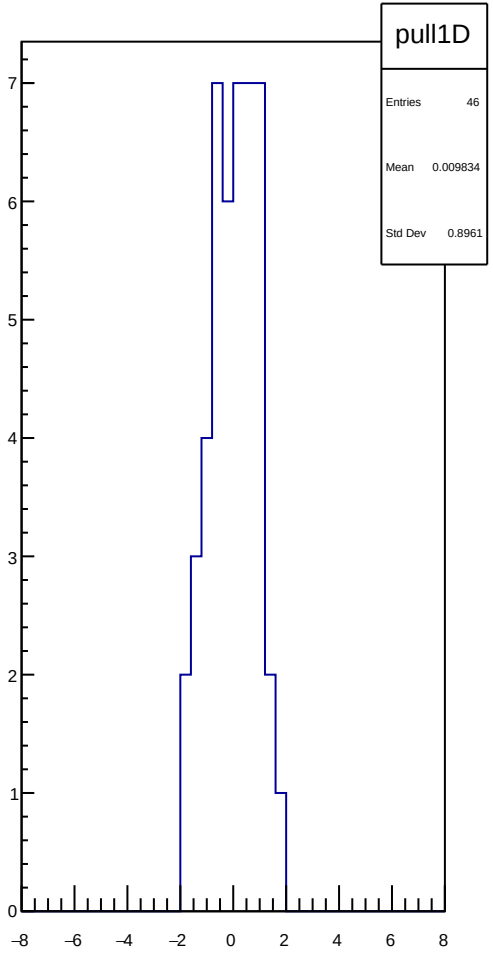

pull1D
Entries 46
Mean 0.005867
Std Dev 0.7361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

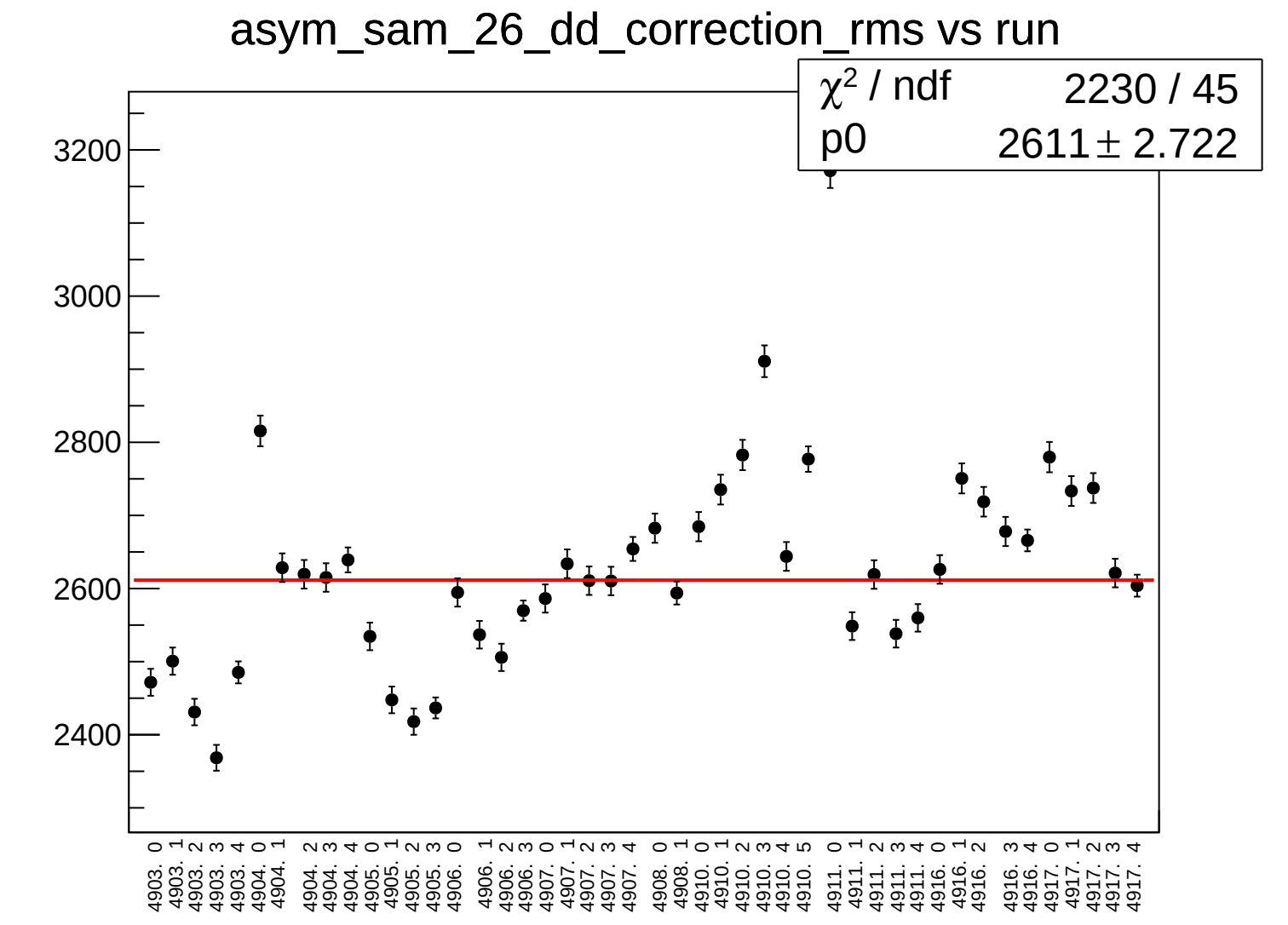

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2940 / 45
p0 379.3 ± 0.3956
440
420
400
380
360
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

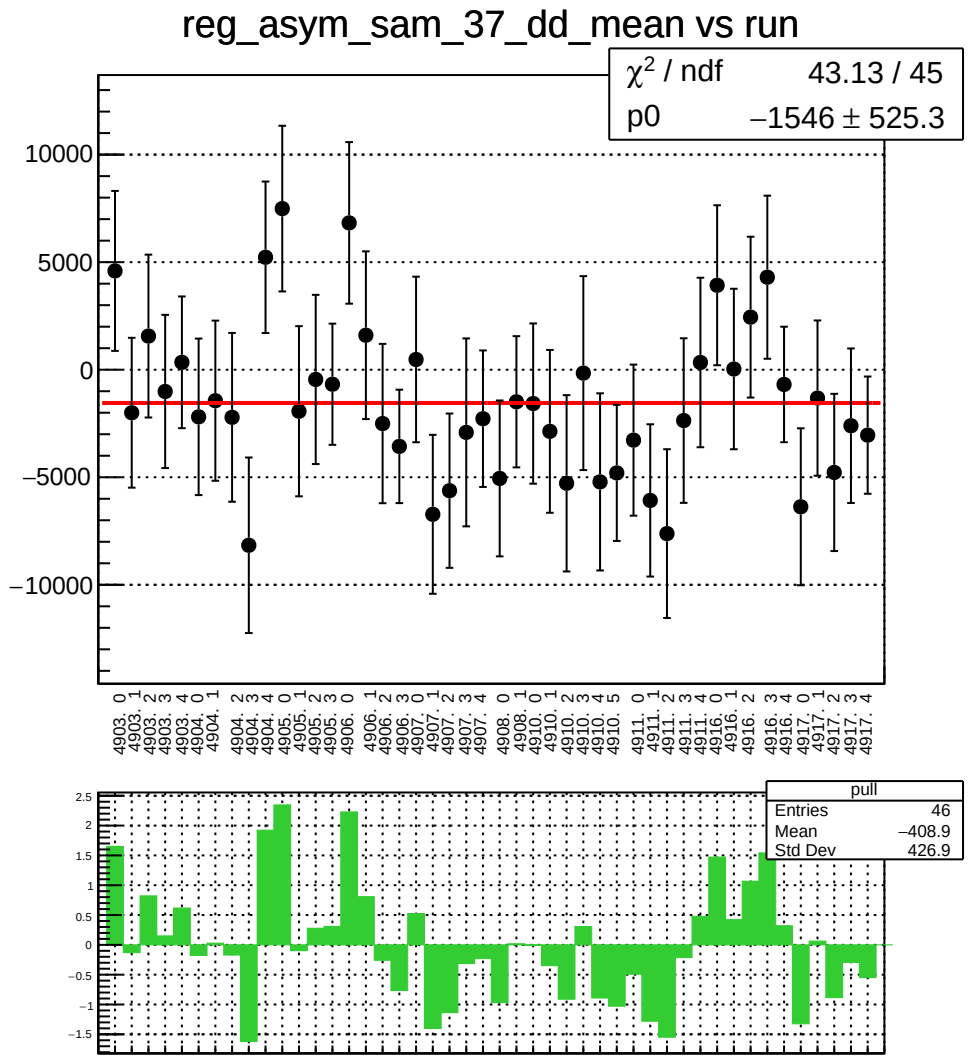

reg_asym_sam_26_dd_mean vs run
χ² / ndf 42.03 / 45
p0 −3748 ± 1523
30000
20000
10000
0
−10000
−20000
−30000
−40000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −179.9
Std Dev 203.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.006225
Std Dev 0.9558
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

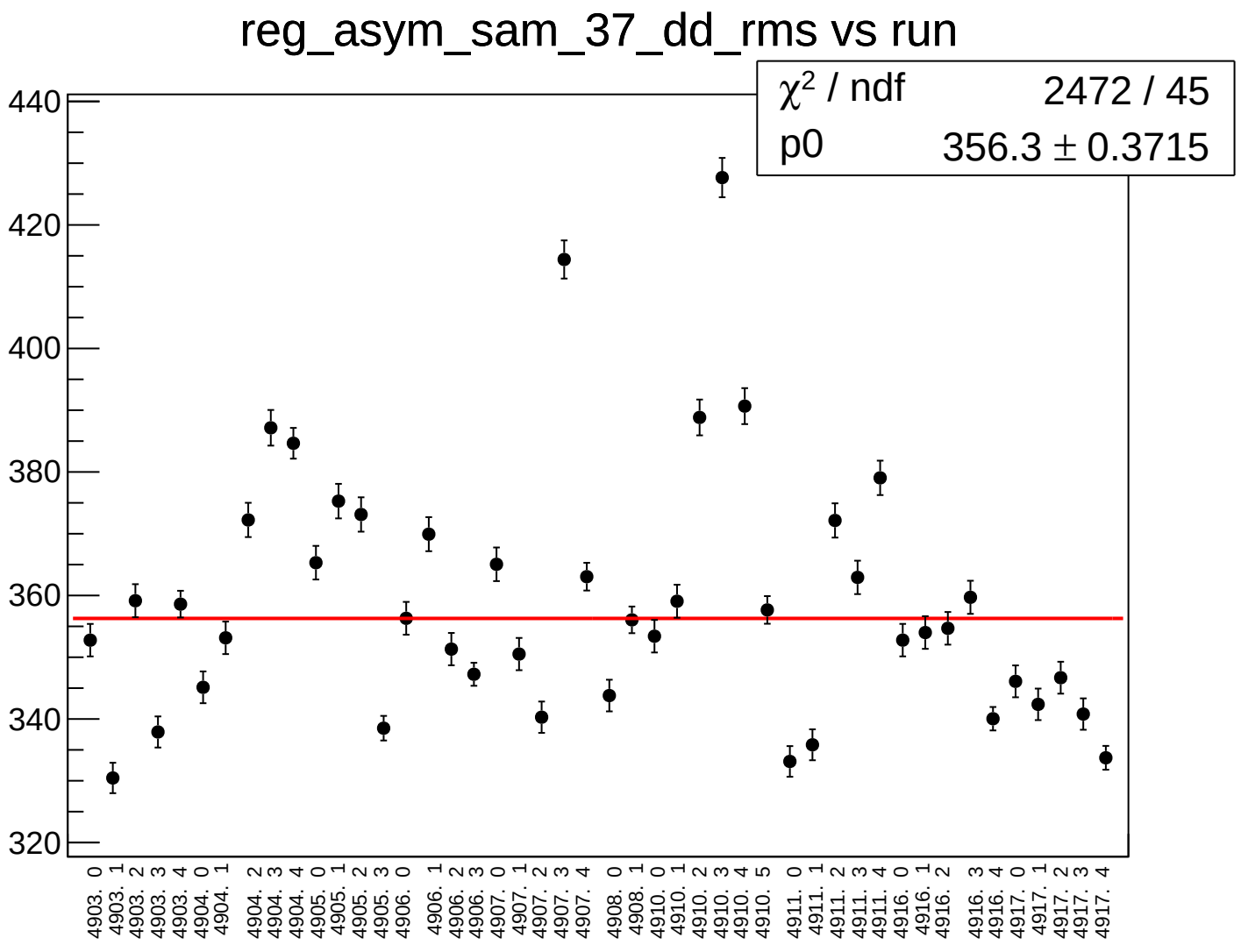

reg_asym_sam_26_dd_rms vs run
χ² / ndf 330.7 / 45
p0 1034 ± 1.077
1100
1080
1060
1040
1020
1000
980
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

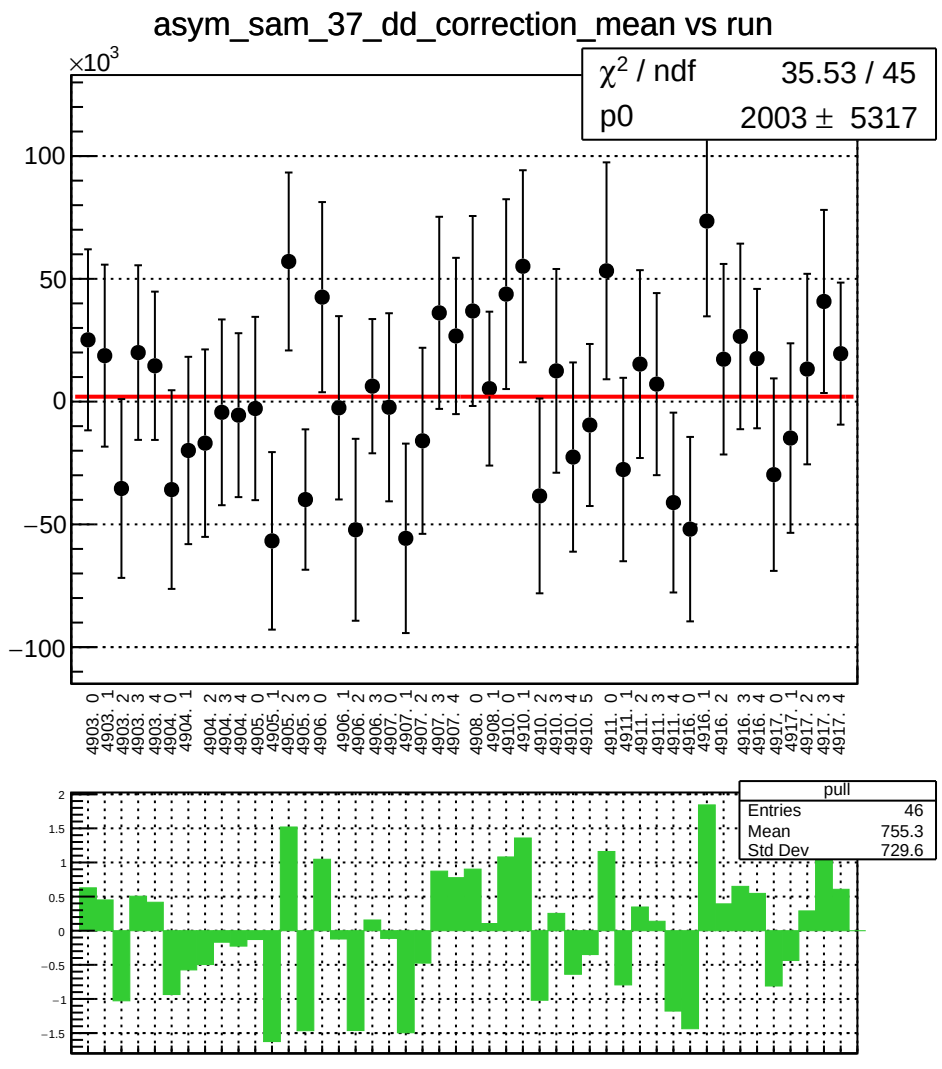

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 36.94 / 45
p0 1795 ± 3850
pull
Entries 46
Mean 235
Std Dev 209.3

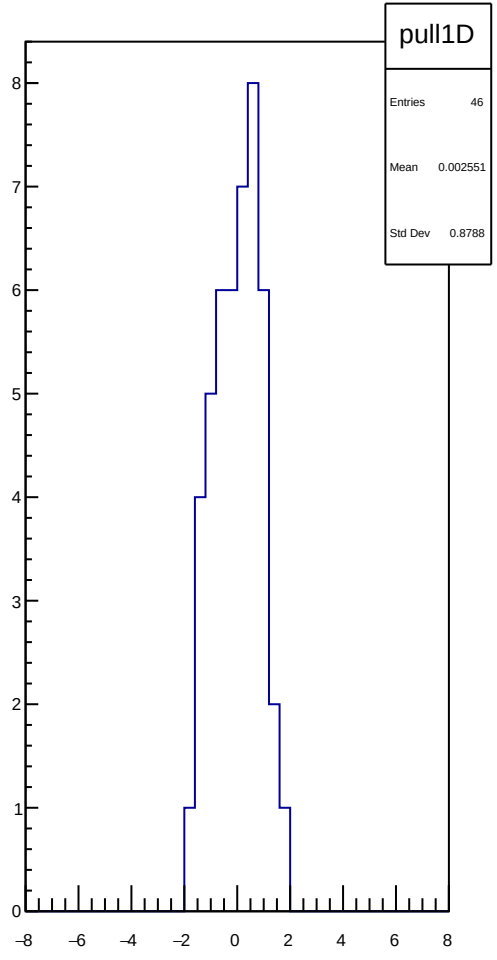

pull1D
Entries 46
Mean 0.009834
Std Dev 0.8961

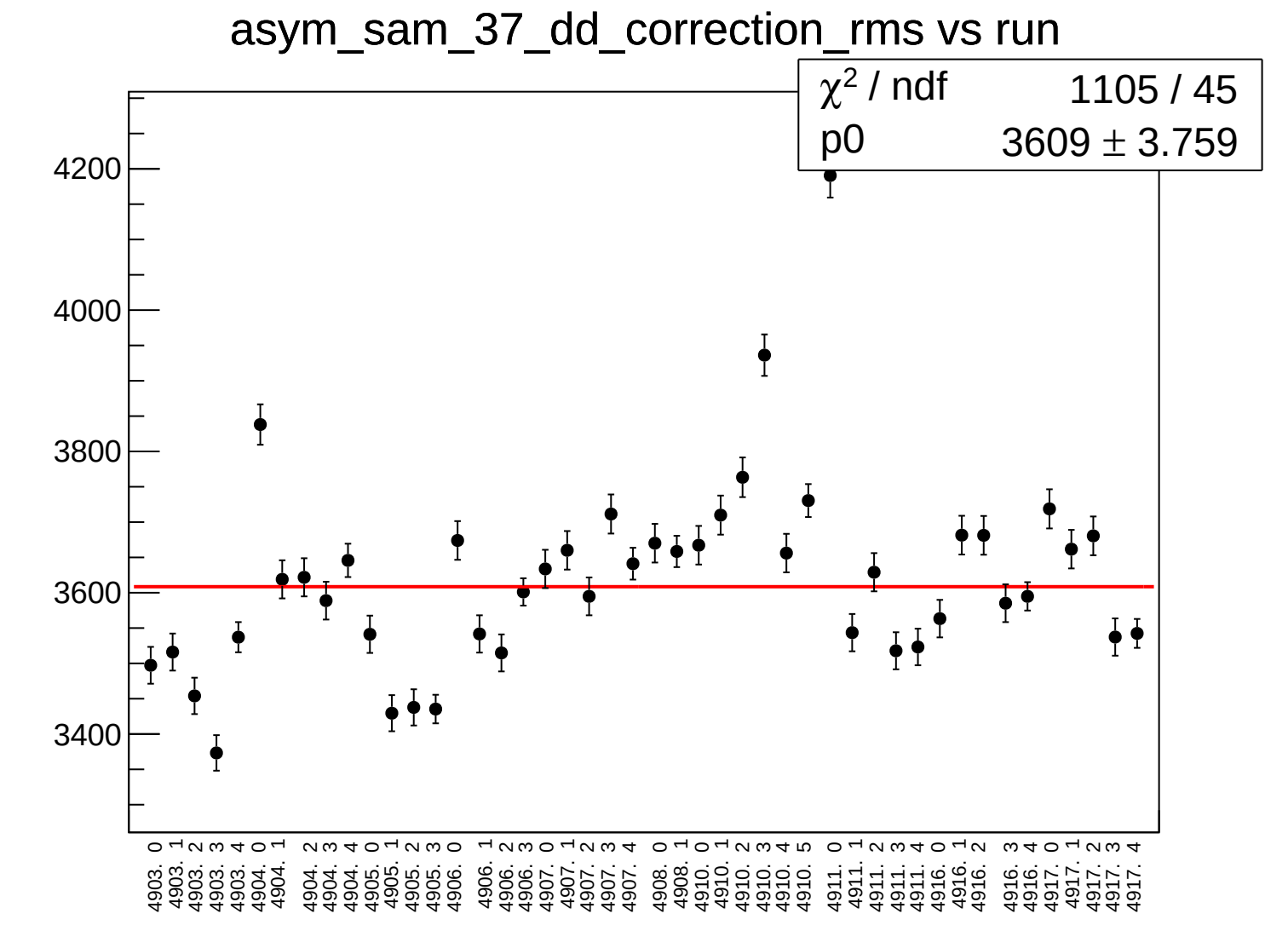

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2230 / 45
p0 2611 ± 2.722
3200
3000
2800
2600
2400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

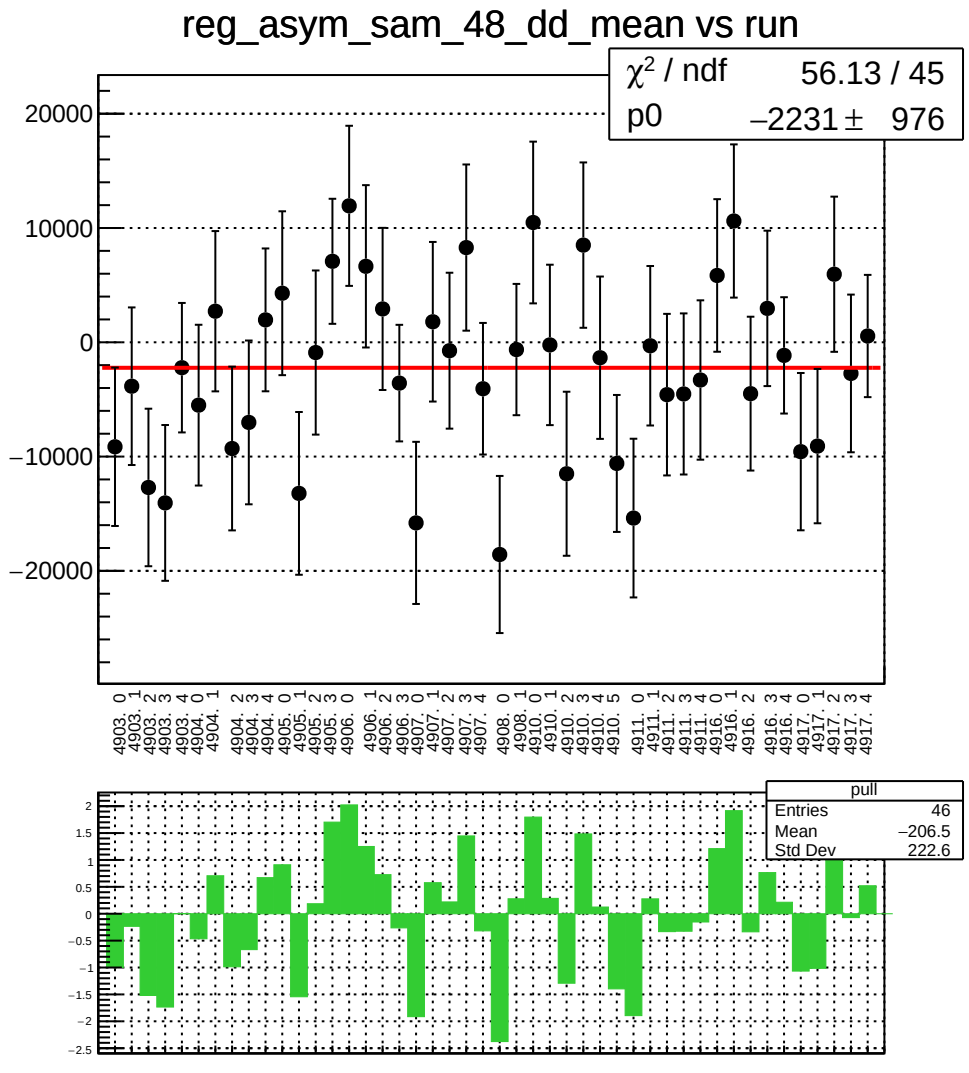

reg_asym_sam_37_dd_mean vs run
χ² / ndf 43.13 / 45
p0 −1546 ± 525.3
10000
5000
0
−5000
−10000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −408.9
Std Dev 426.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.007202
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

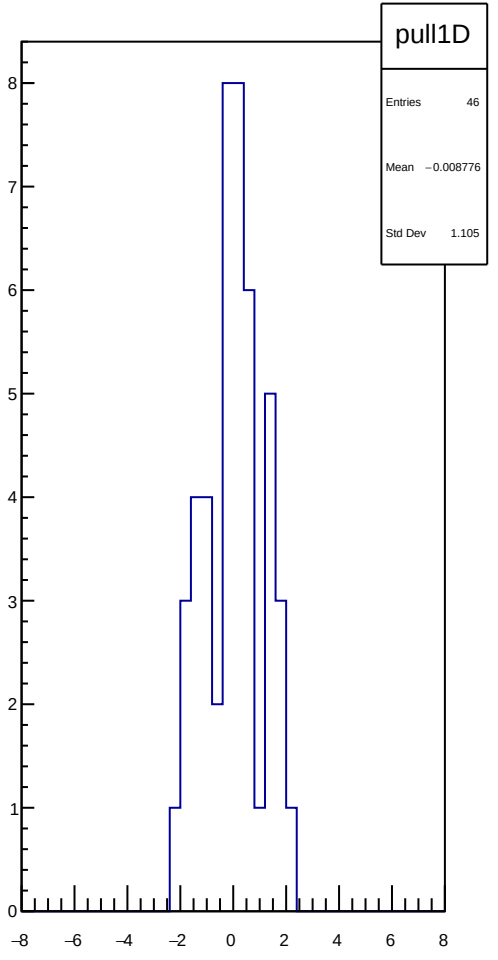

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2472 / 45
p0 356.3 ± 0.3715
440
420
400
380
360
340
320
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

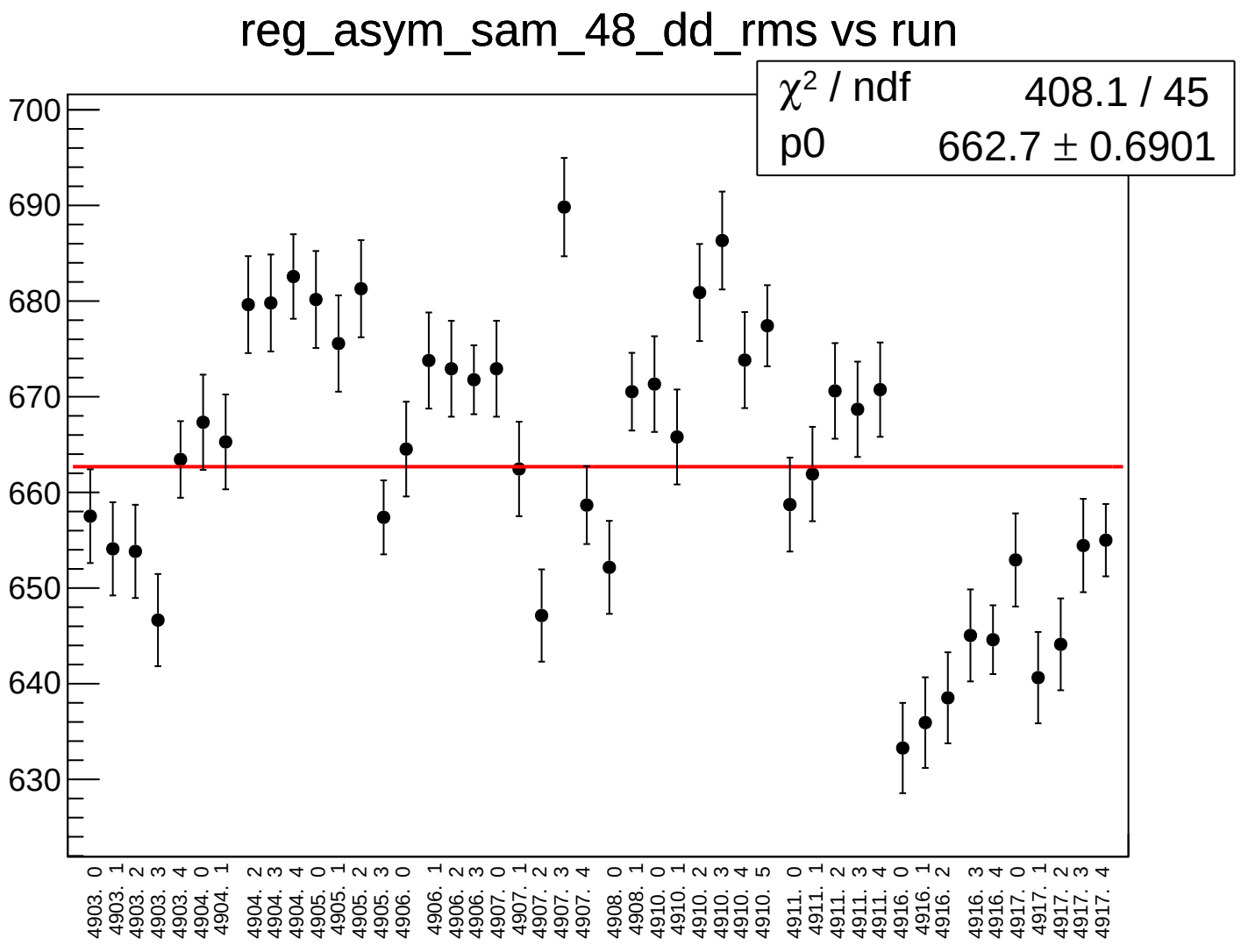

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 35.53 / 45
p0 2003 ± 5317
100
50
0
−50
−100
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 755.3
Std Dev 729.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

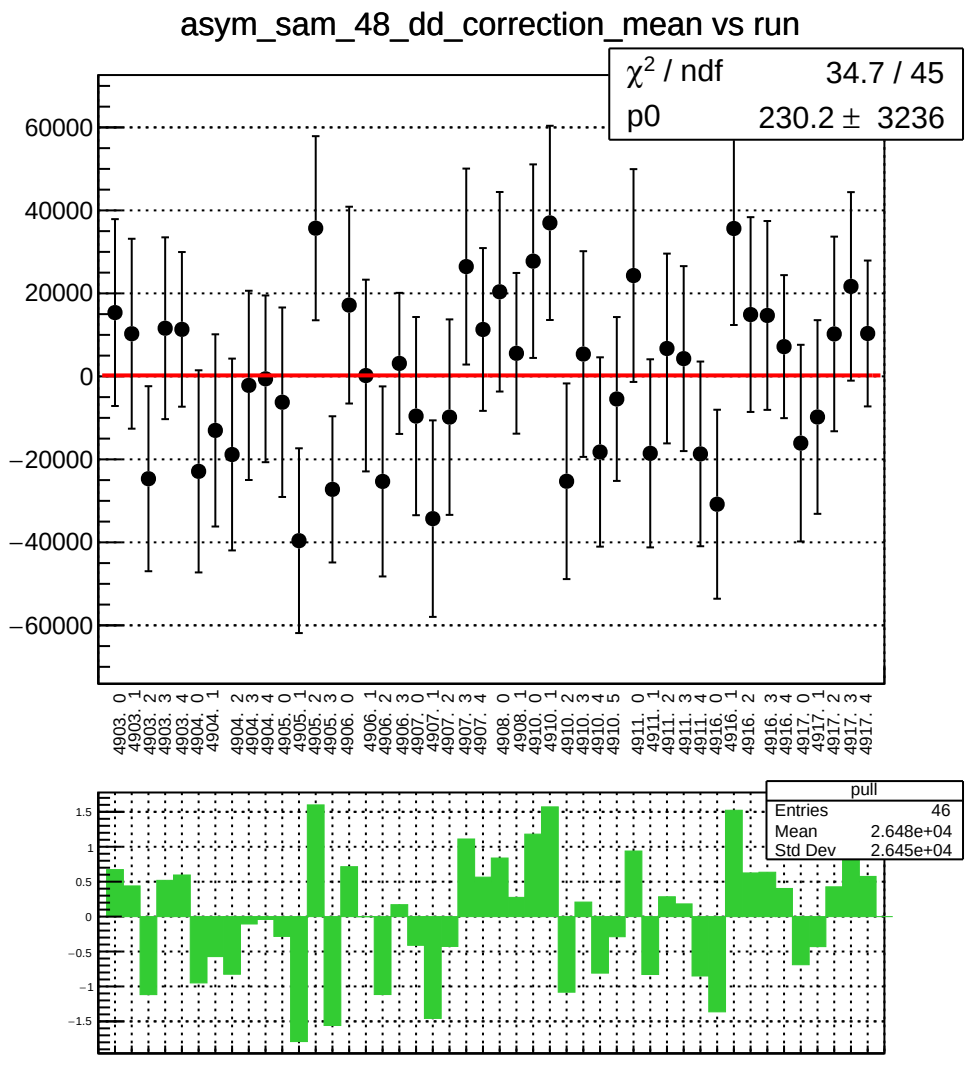

pull1D
Entries 46
Mean 0.002551
Std Dev 0.8788
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

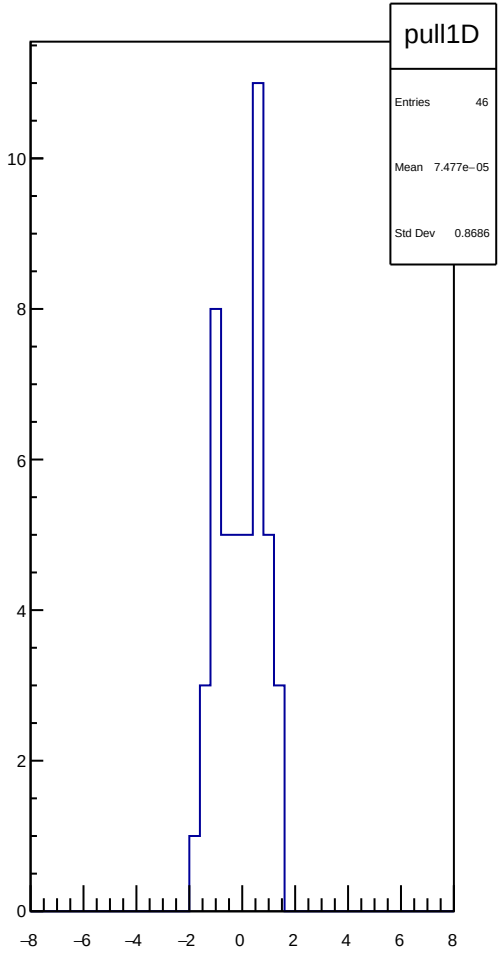

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1105 / 45
p0 3609 ± 3.759
4200
4000
3800
3600
3400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

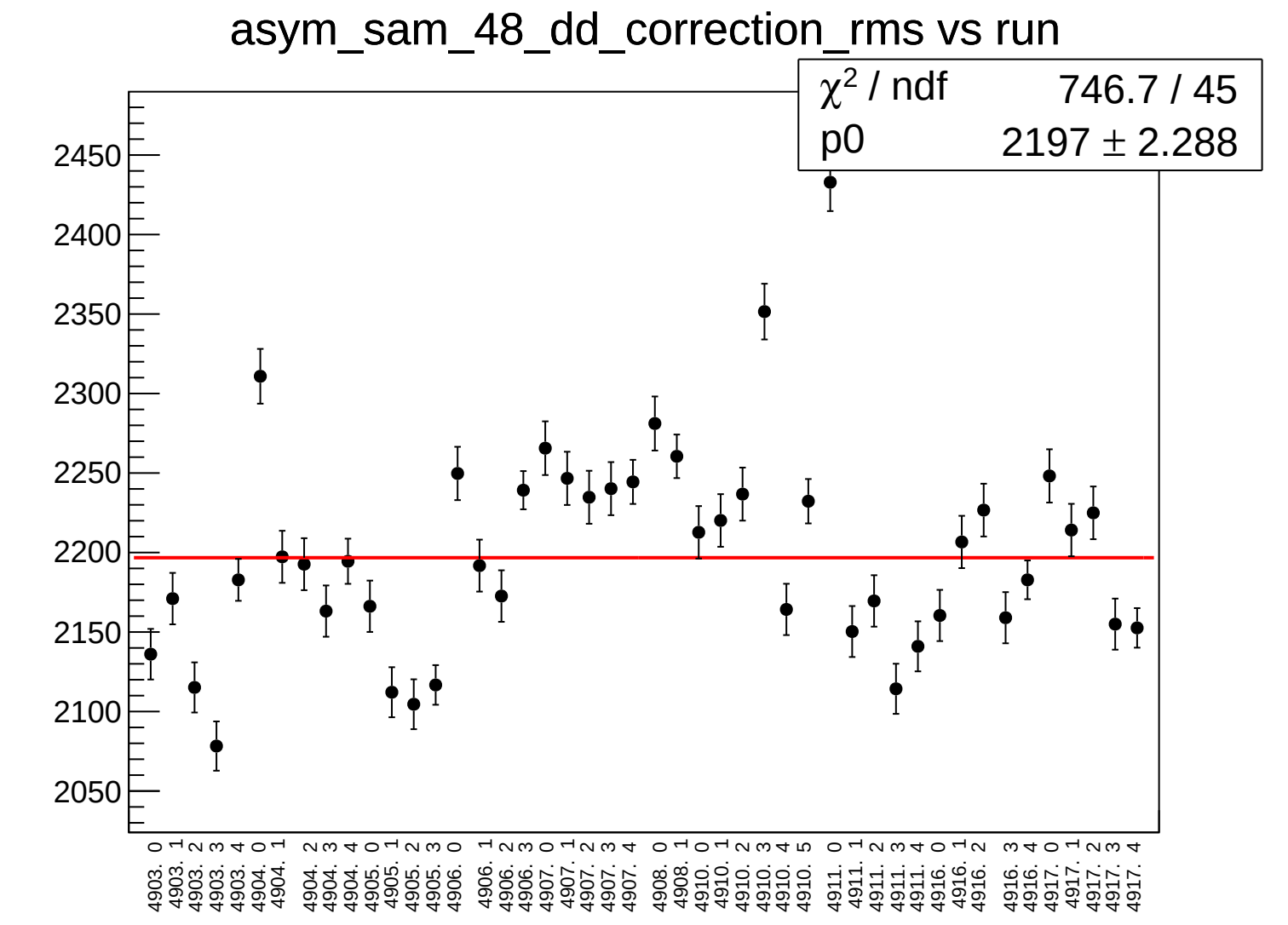

reg_asym_sam_48_dd_mean vs run
χ² / ndf 56.13 / 45
p0 −2231 ± 976
20000
10000
0
−10000
−20000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −206.5
Std Dev 222.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

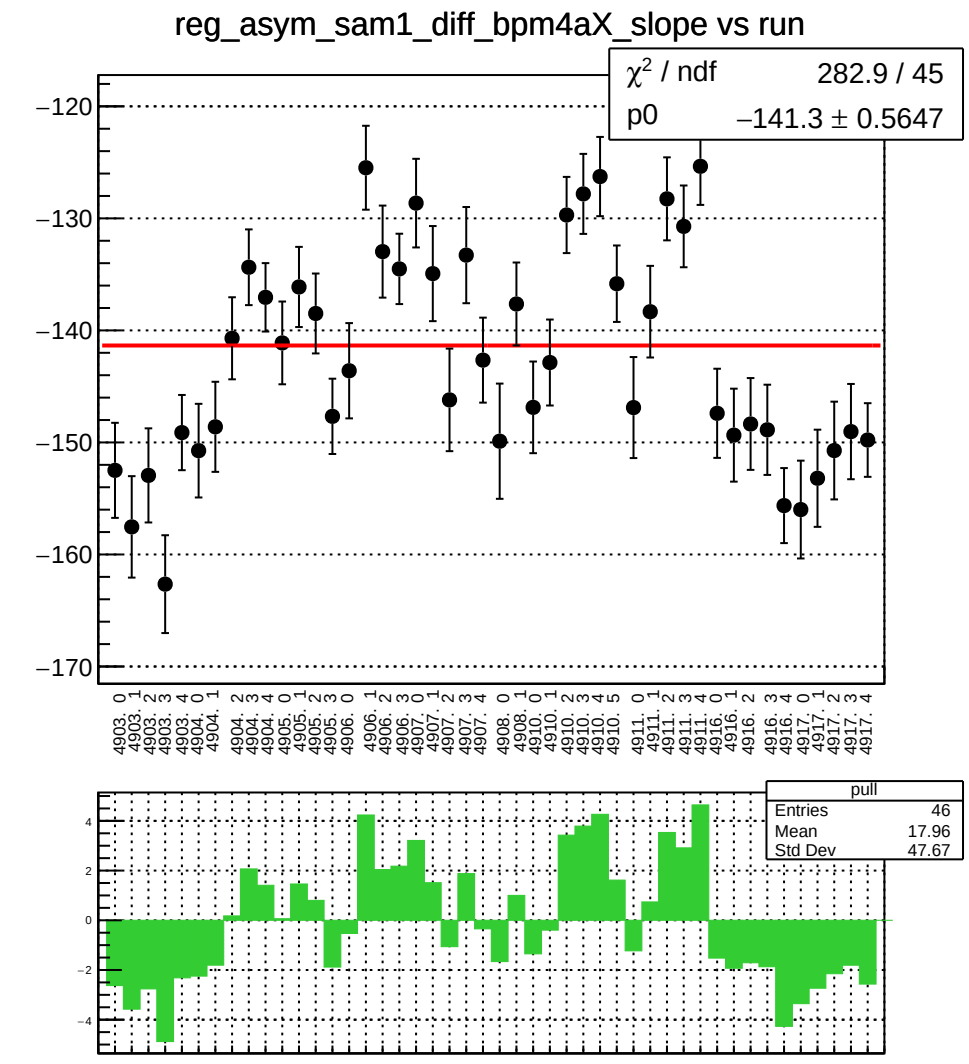

pull1D
Entries 46
Mean −0.008776
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

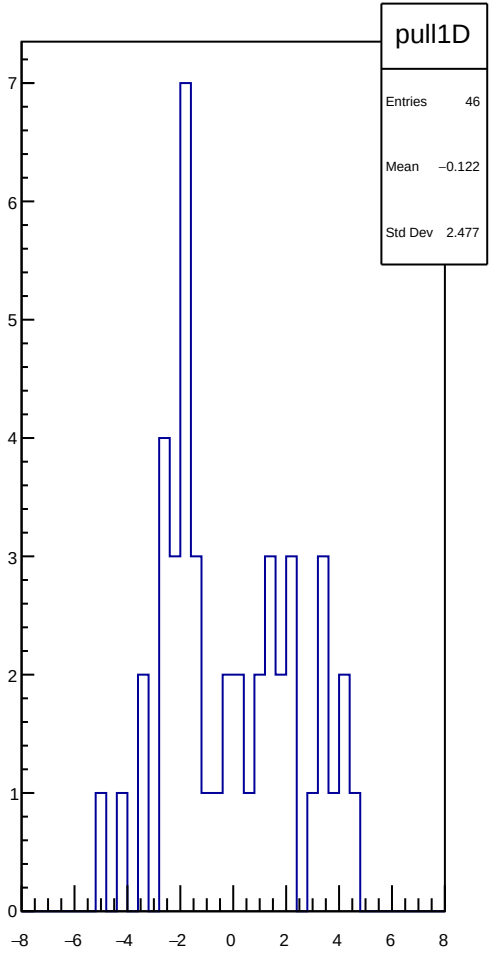

reg_asym_sam_48_dd_rms vs run
χ² / ndf 408.1 / 45
p0 662.7 ± 0.6901
700
690
680
670
660
650
640
630
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

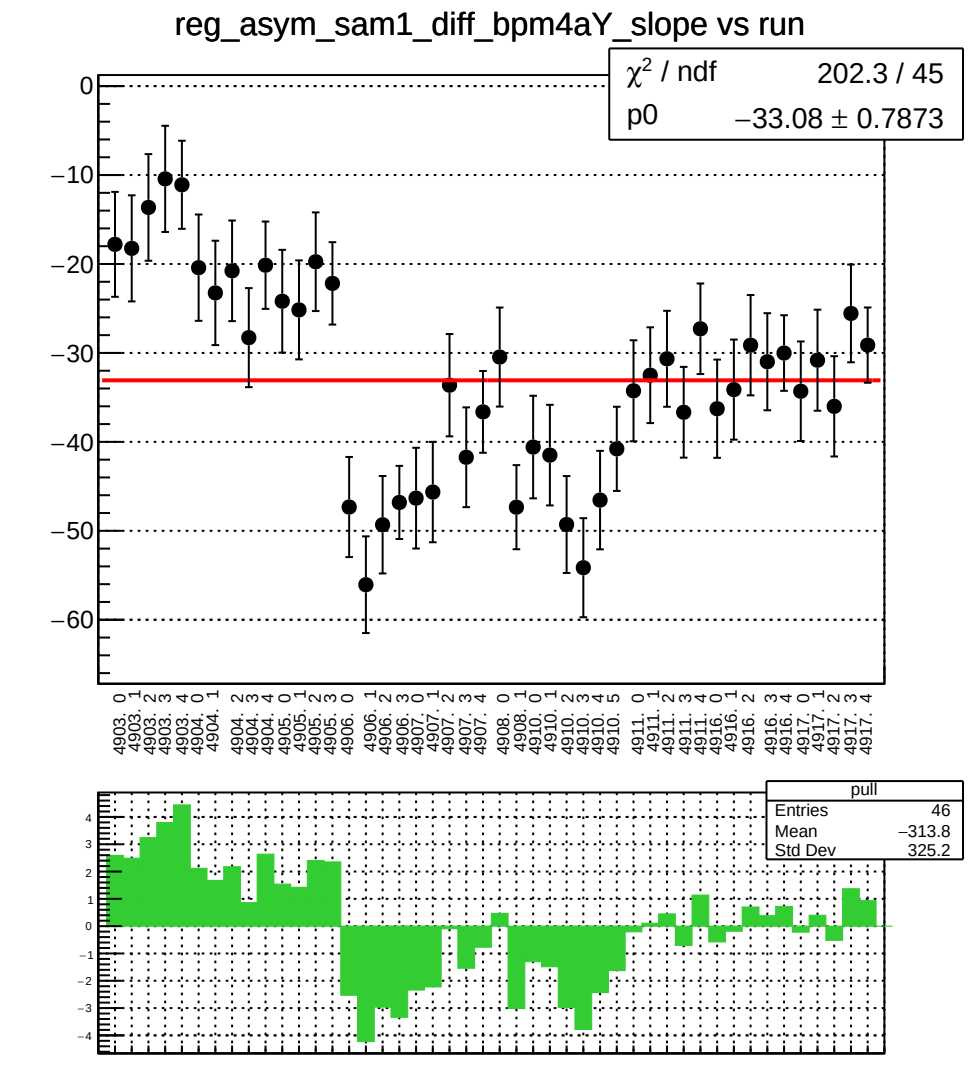

asym_sam_48_dd_correction_mean vs run
χ² / ndf 34.7 / 45
p0 230.2 ± 3236
60000
40000
20000
0
−20000
−40000
−60000
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 2.648e+04
Std Dev 2.645e+04
1.5
1
0.5
0
−0.5
−1
−1.5

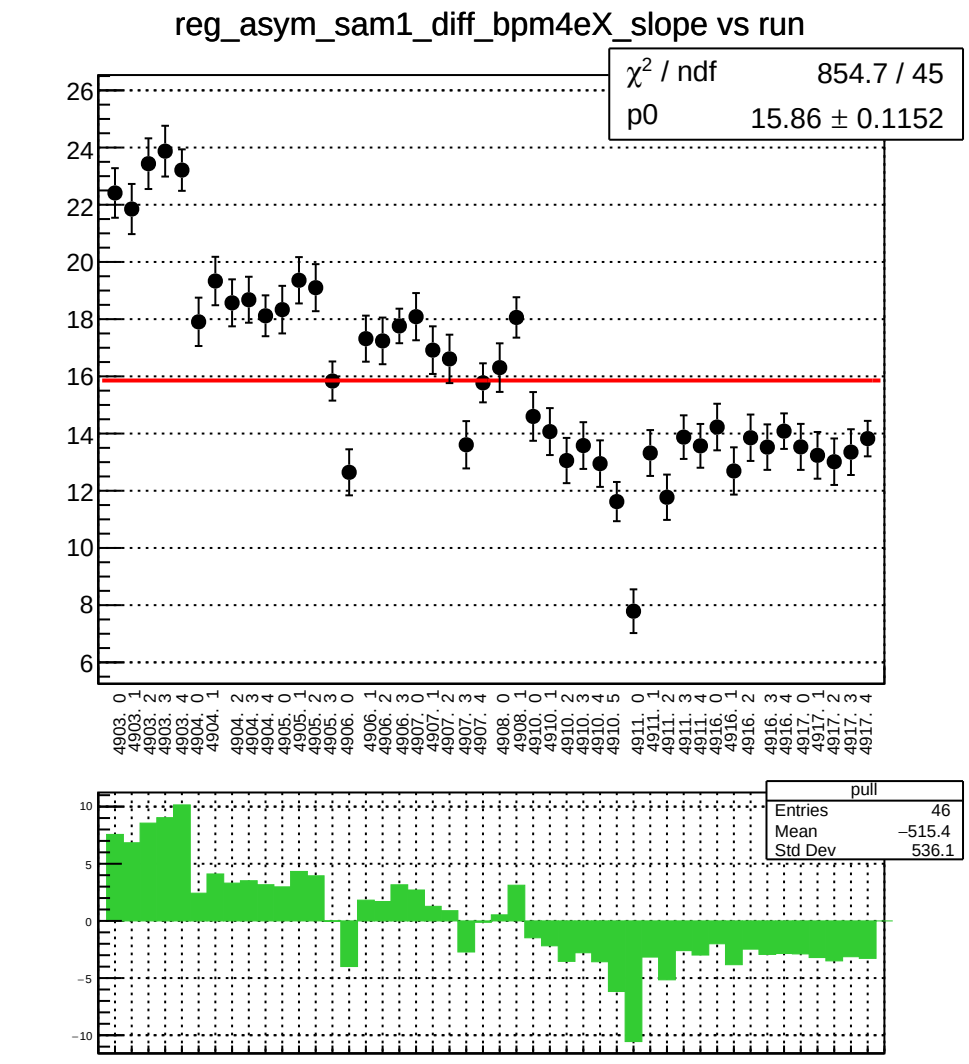

pull1D
Entries 46
Mean 7.477e−05
Std Dev 0.8686
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

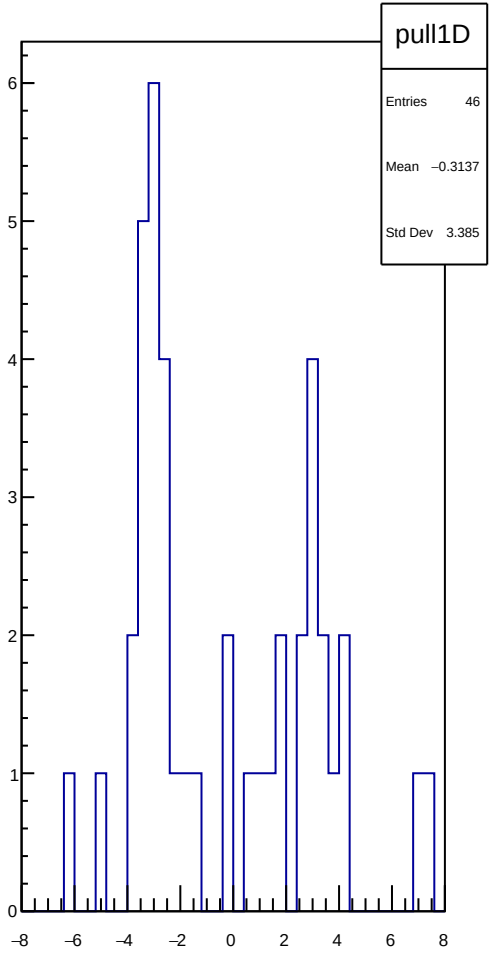

asym_sam_48_dd_correction_rms vs run
χ² / ndf 746.7 / 45
p0 2197 ± 2.288
2450
2400
2350
2300
2250
2200
2150
2100
2050
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4

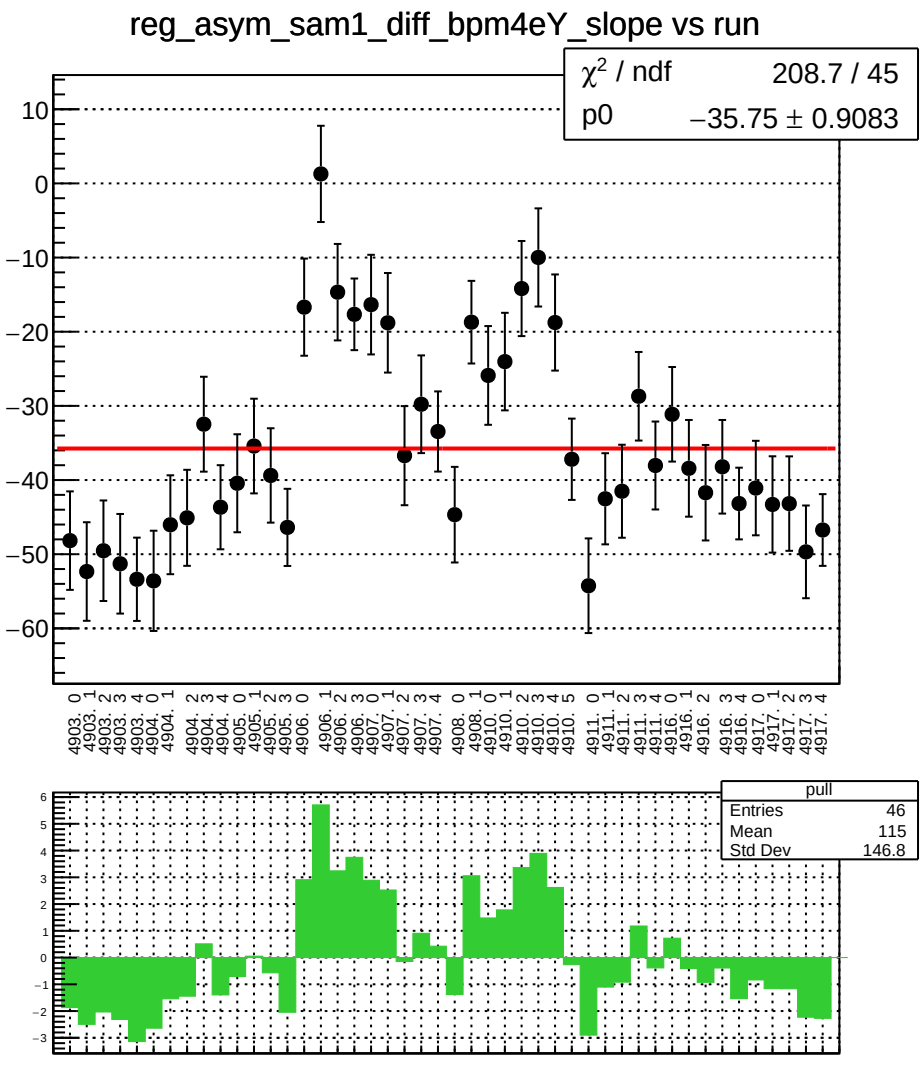

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 282.9 / 45
p0 −141.3 ± 0.5647
pull
Entries 46
Mean 17.96
Std Dev 47.67

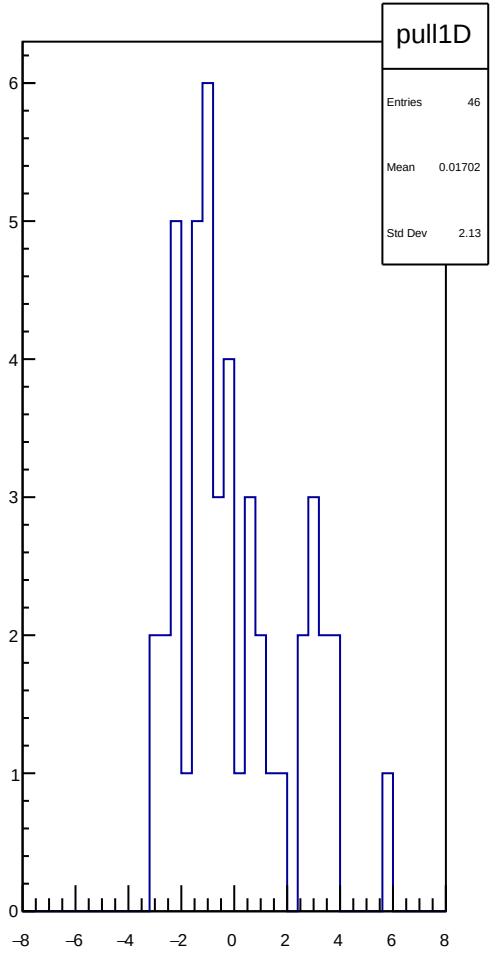

pull1D
Entries 46
Mean −0.122
Std Dev 2.477

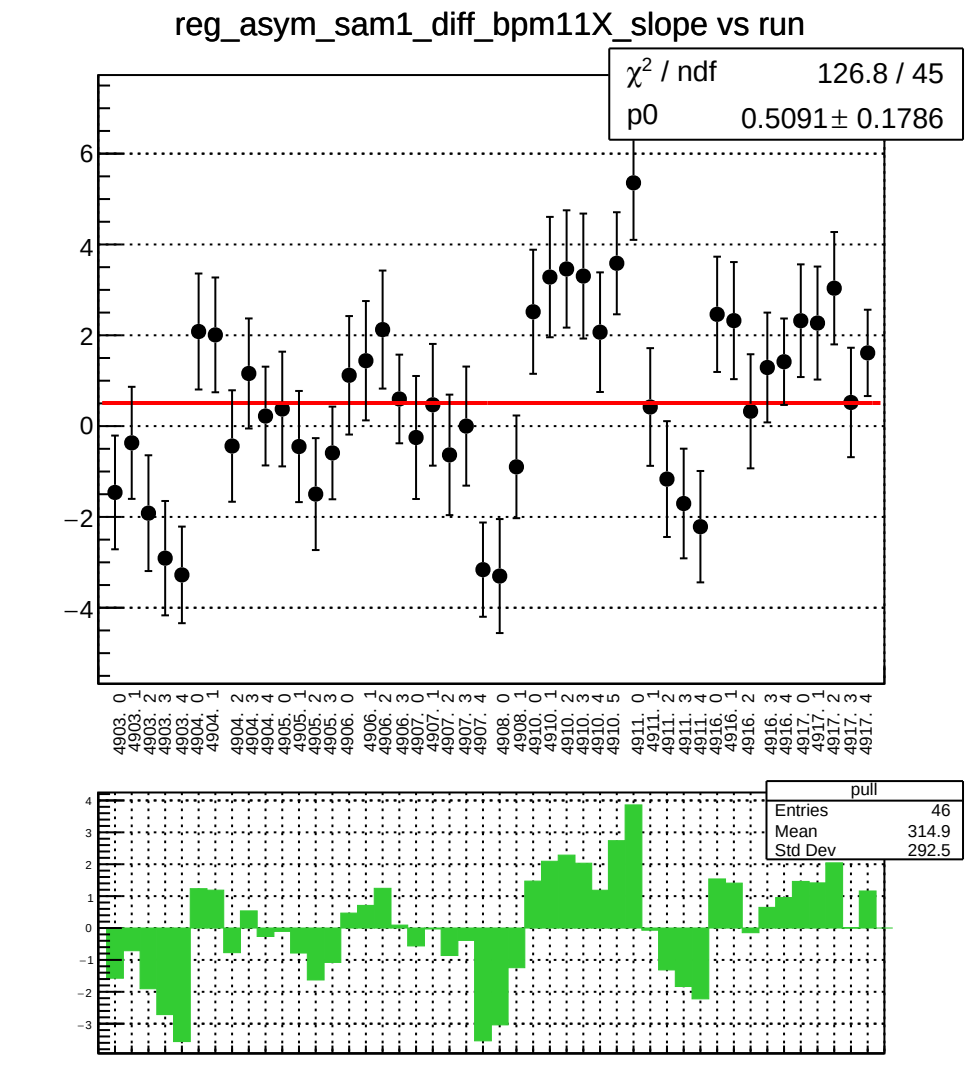

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 202.3 / 45
p0 −33.08 ± 0.7873
0
−10
−20
−30
−40
−50
−60
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −313.8
Std Dev 325.2
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 46
Mean 0.02931
Std Dev 2.097
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

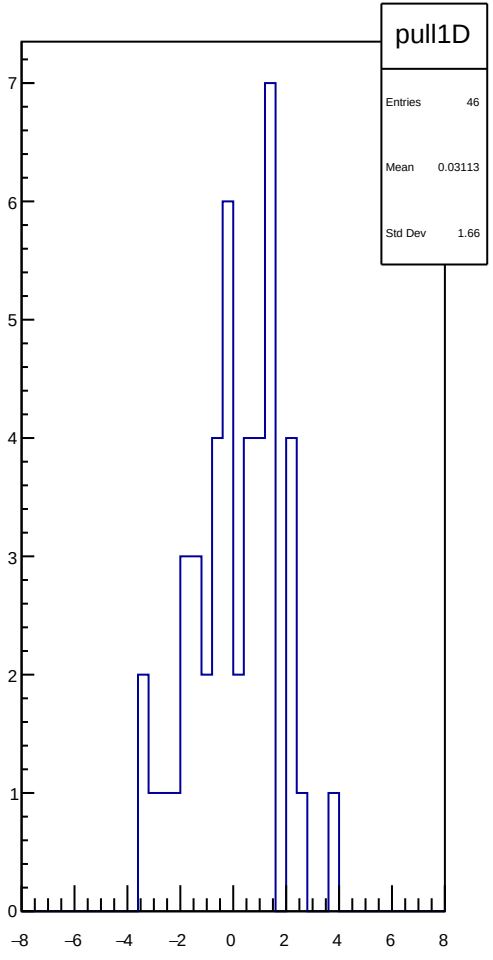

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 854.7 / 45
p0 15.86 ± 0.1152
pull
Entries 46
Mean −515.4
Std Dev 536.1

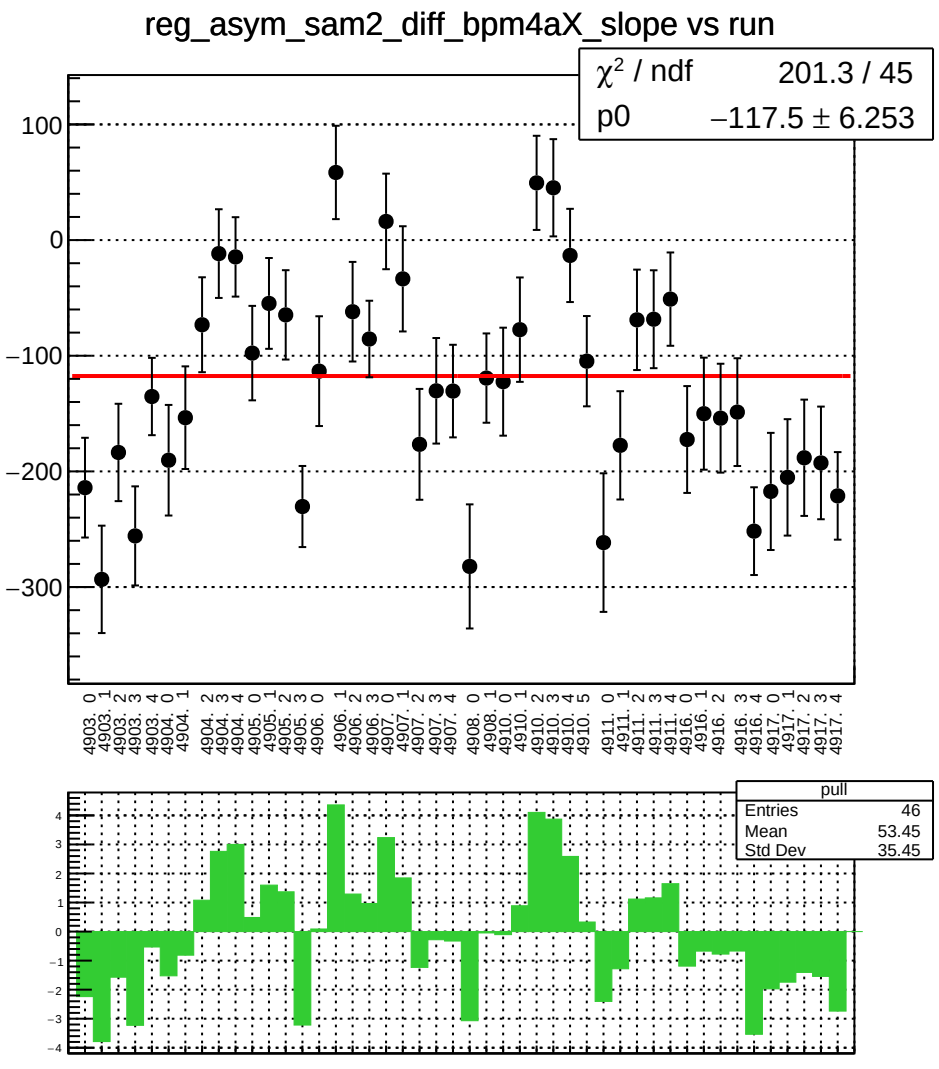

pull1D
Entries 46
Mean −0.3137
Std Dev 3.385

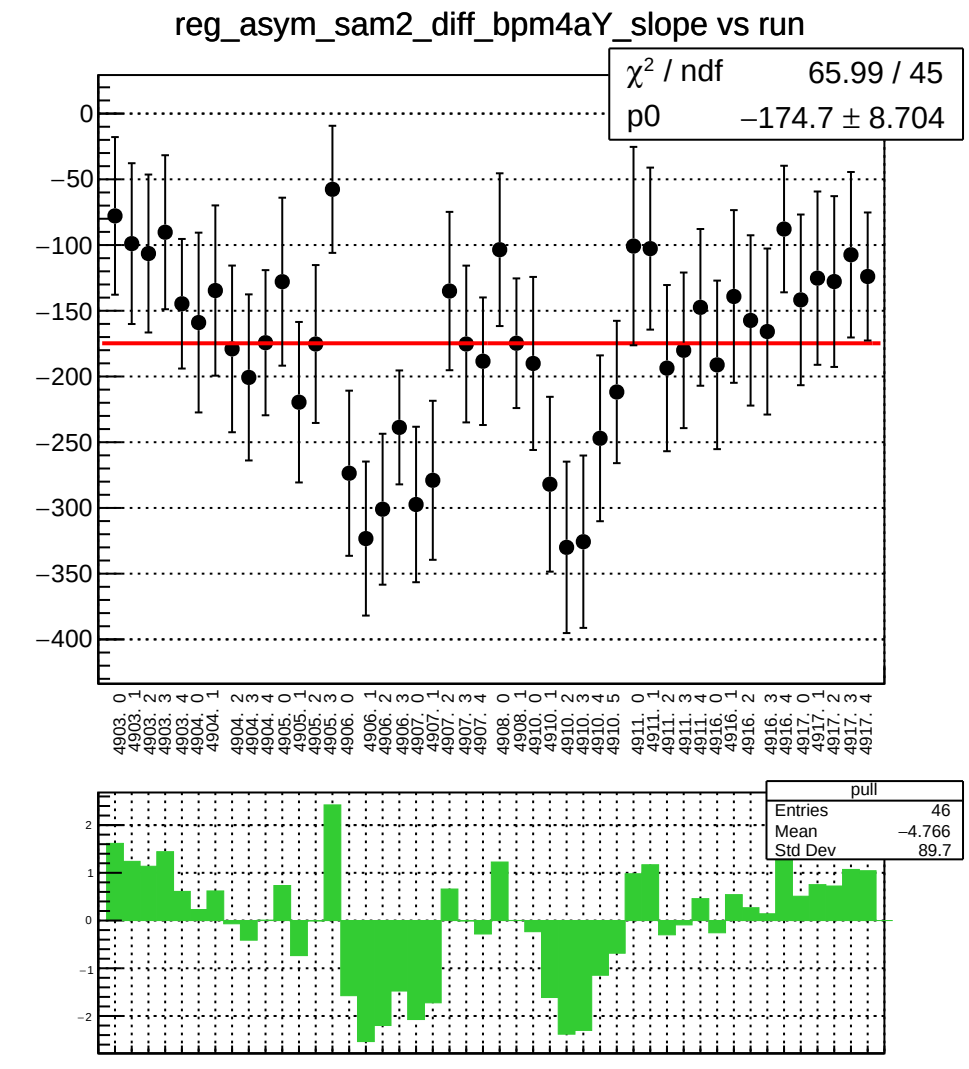

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 208.7 / 45
p0 −35.75 ± 0.9083
pull
Entries 46
Mean 115
Std Dev 146.8

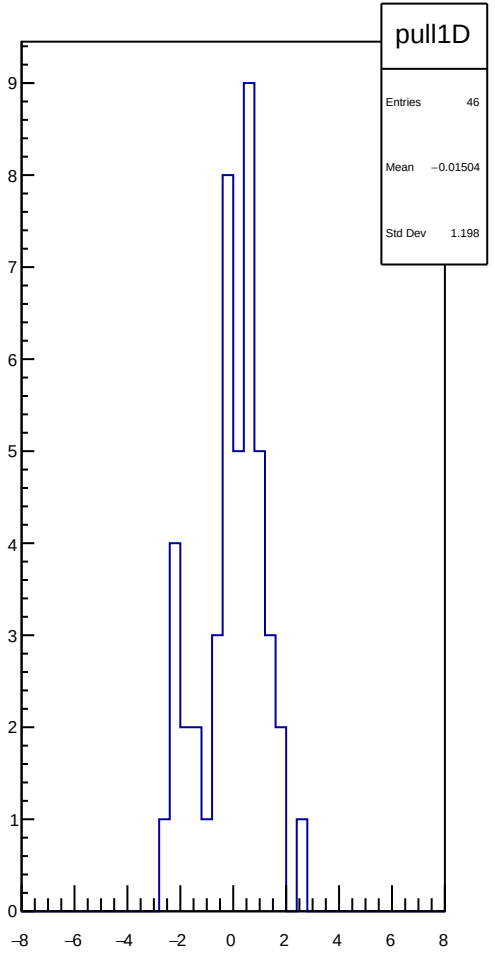

pull1D
Entries 46
Mean 0.01702
Std Dev 2.13

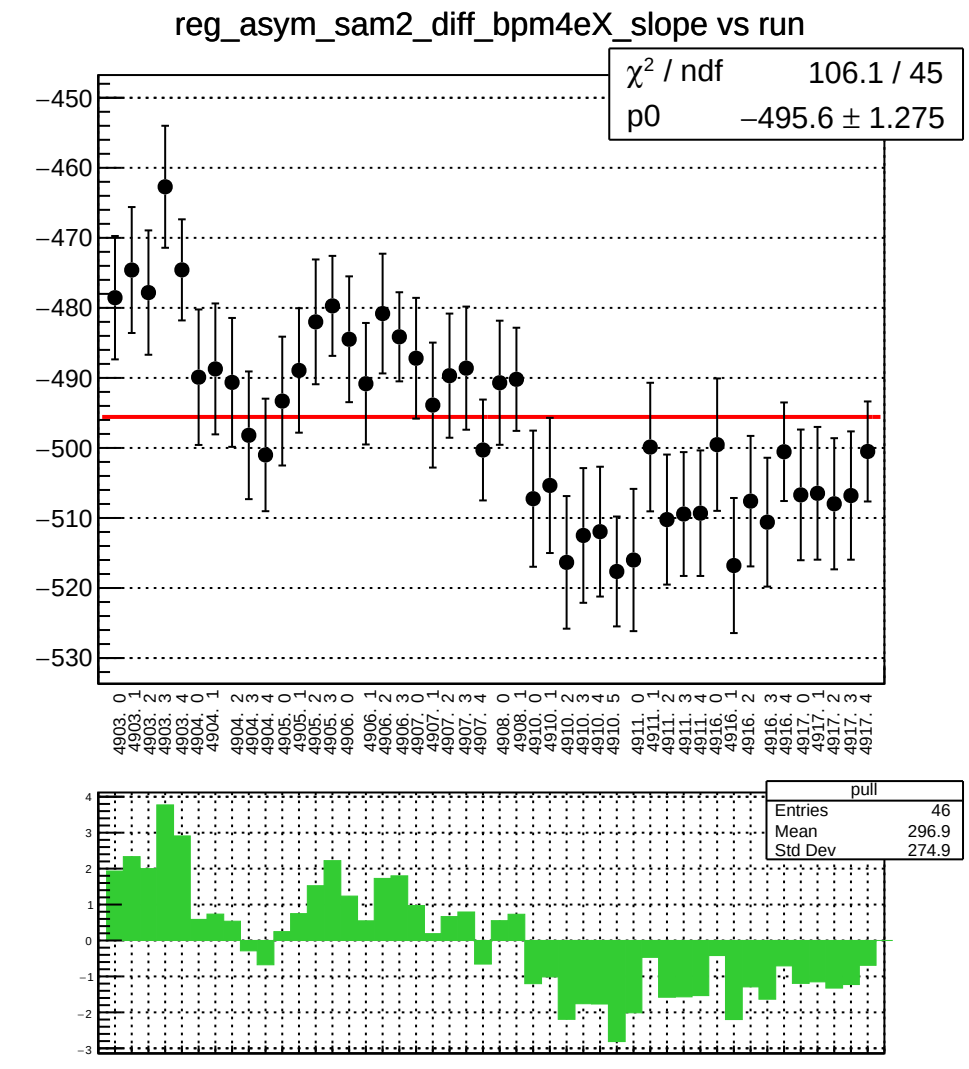

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 126.8 / 45
p0 0.5091± 0.1786
pull
Entries 46
Mean 314.9
Std Dev 292.5

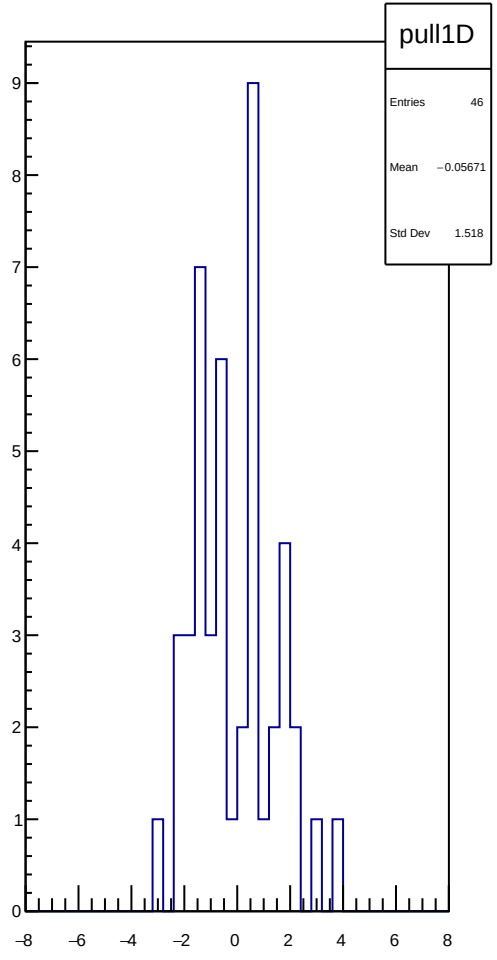

pull1D
Entries 46
Mean 0.03113
Std Dev 1.66

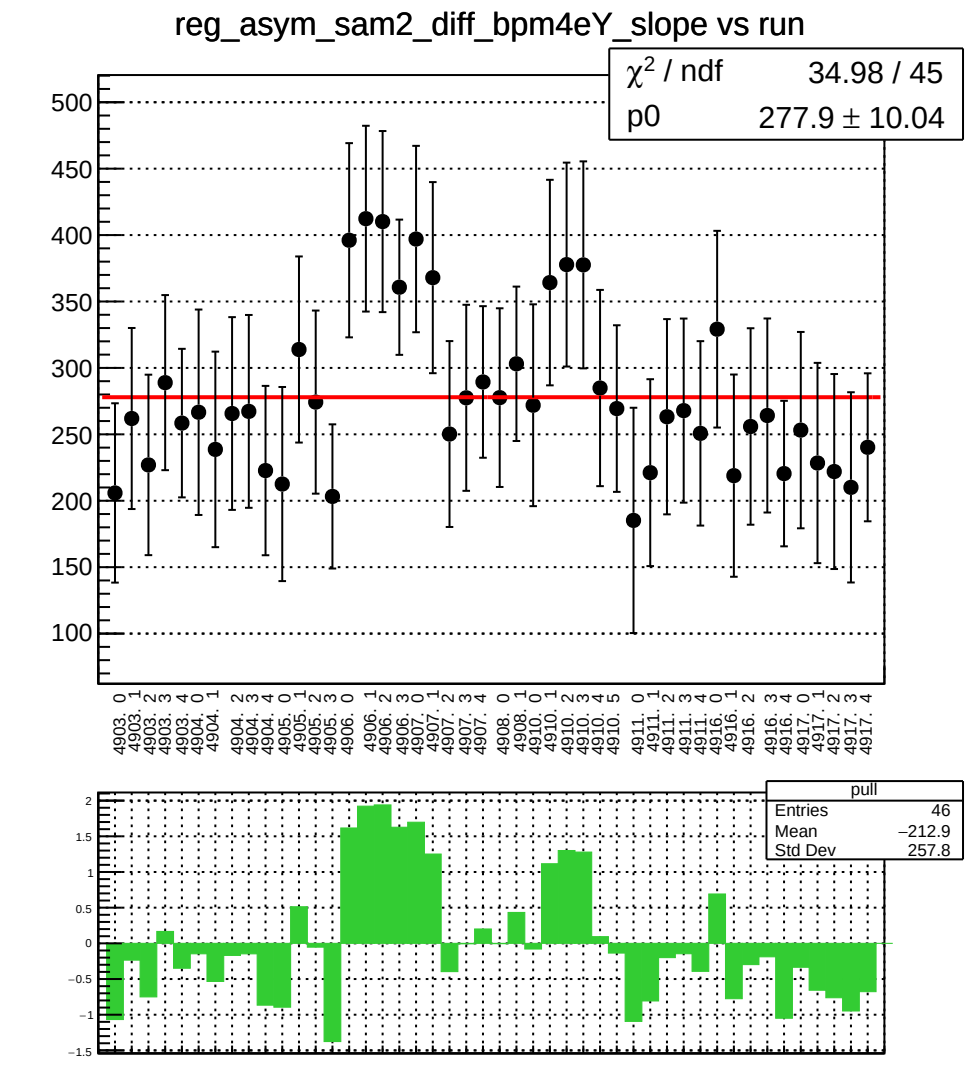

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 201.3 / 45
p0 −117.5 ± 6.253
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 53.45
Std Dev 35.45
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 46
Mean −0.08899
Std Dev 2.09
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

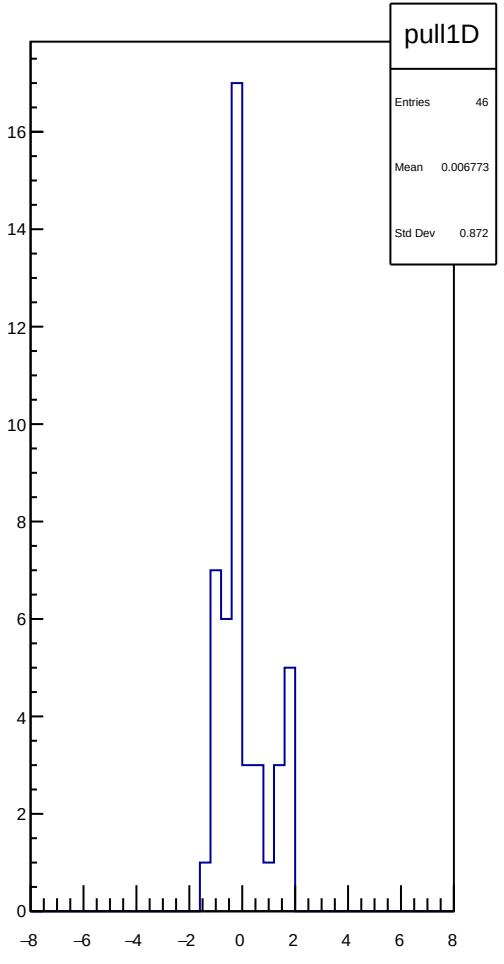

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 65.99 / 45
p0 −174.7 ± 8.704
pull
Entries 46
Mean −4.766
Std Dev 89.7

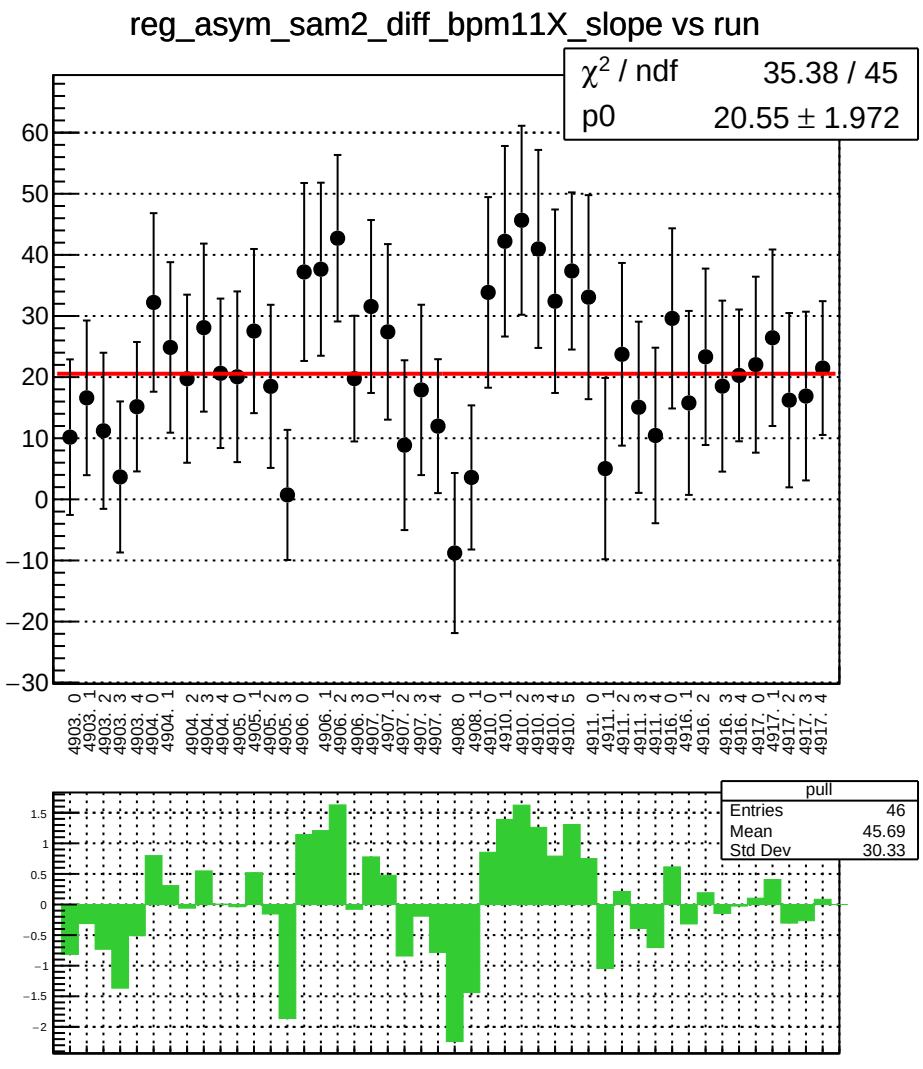

pull1D
Entries 46
Mean −0.01504
Std Dev 1.198

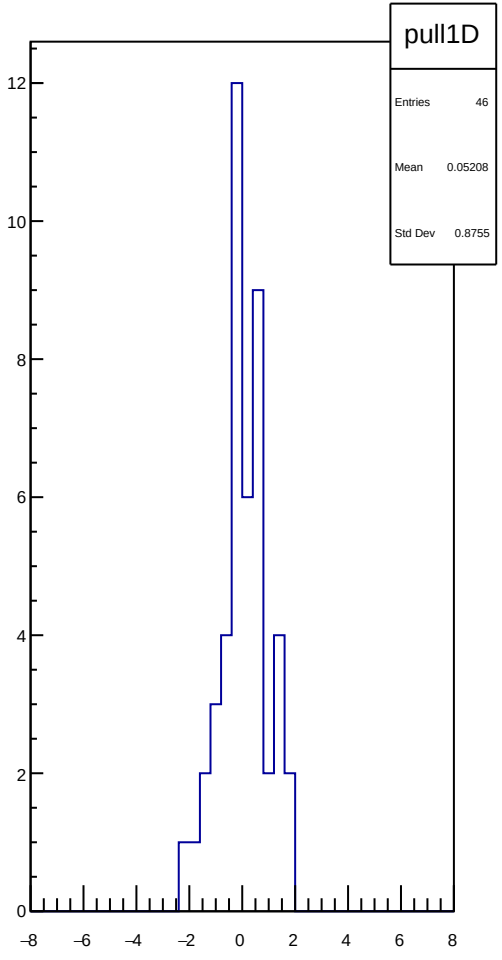

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 106.1 / 45
p0 −495.6 ± 1.275
−450
−460
−470
−480
−490
−500
−510
−520
−530
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 296.9
Std Dev 274.9
4
3
2
1
0
−1
−2
−3

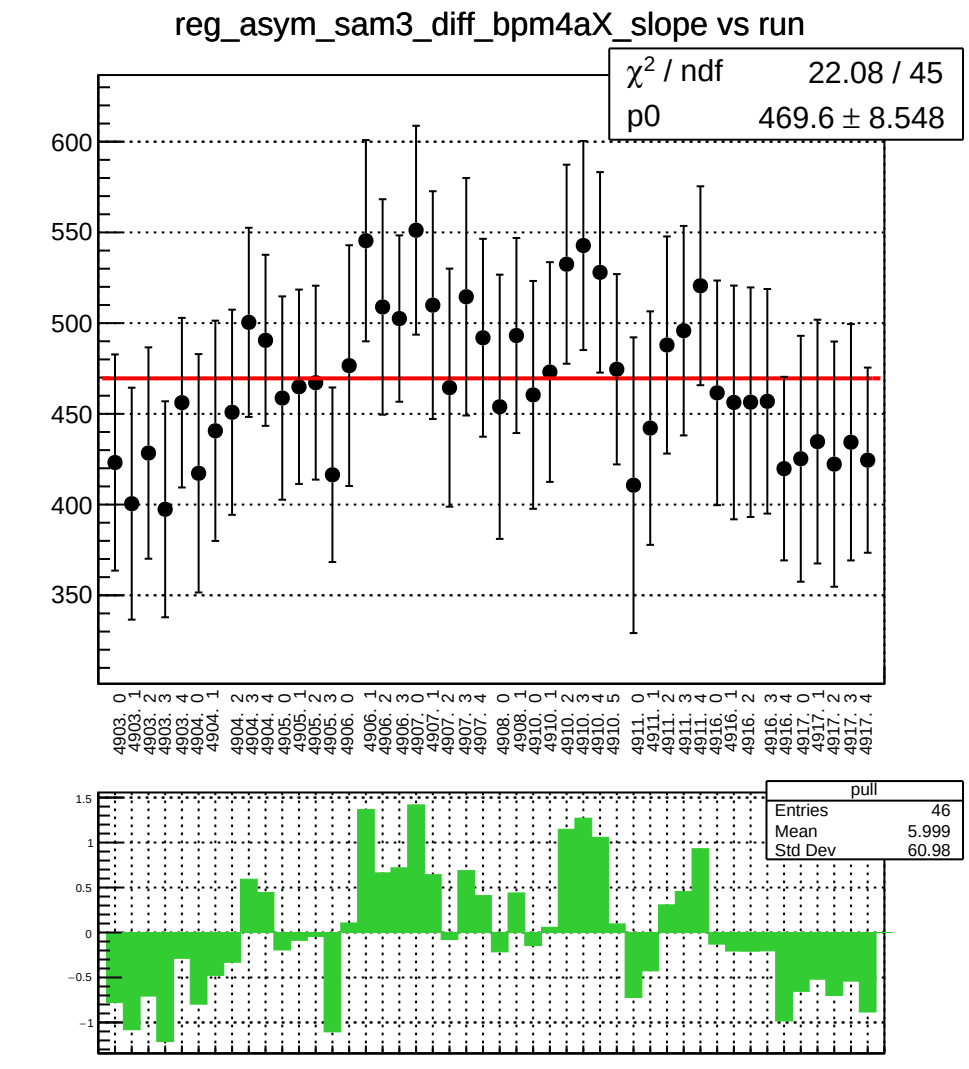

pull1D
Entries 46
Mean −0.05671
Std Dev 1.518
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

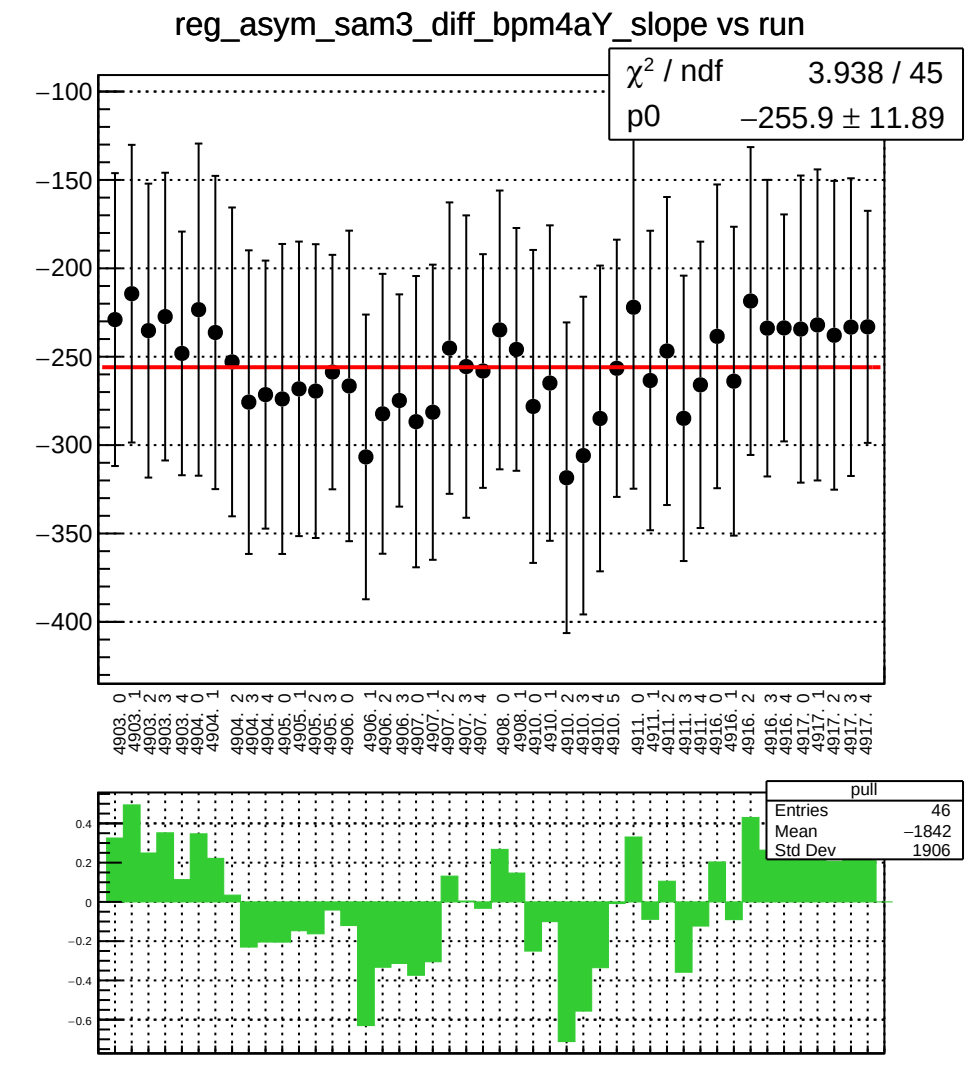

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 34.98 / 45
p0 277.9 ± 10.04
pull
Entries 46
Mean −212.9
Std Dev 257.8

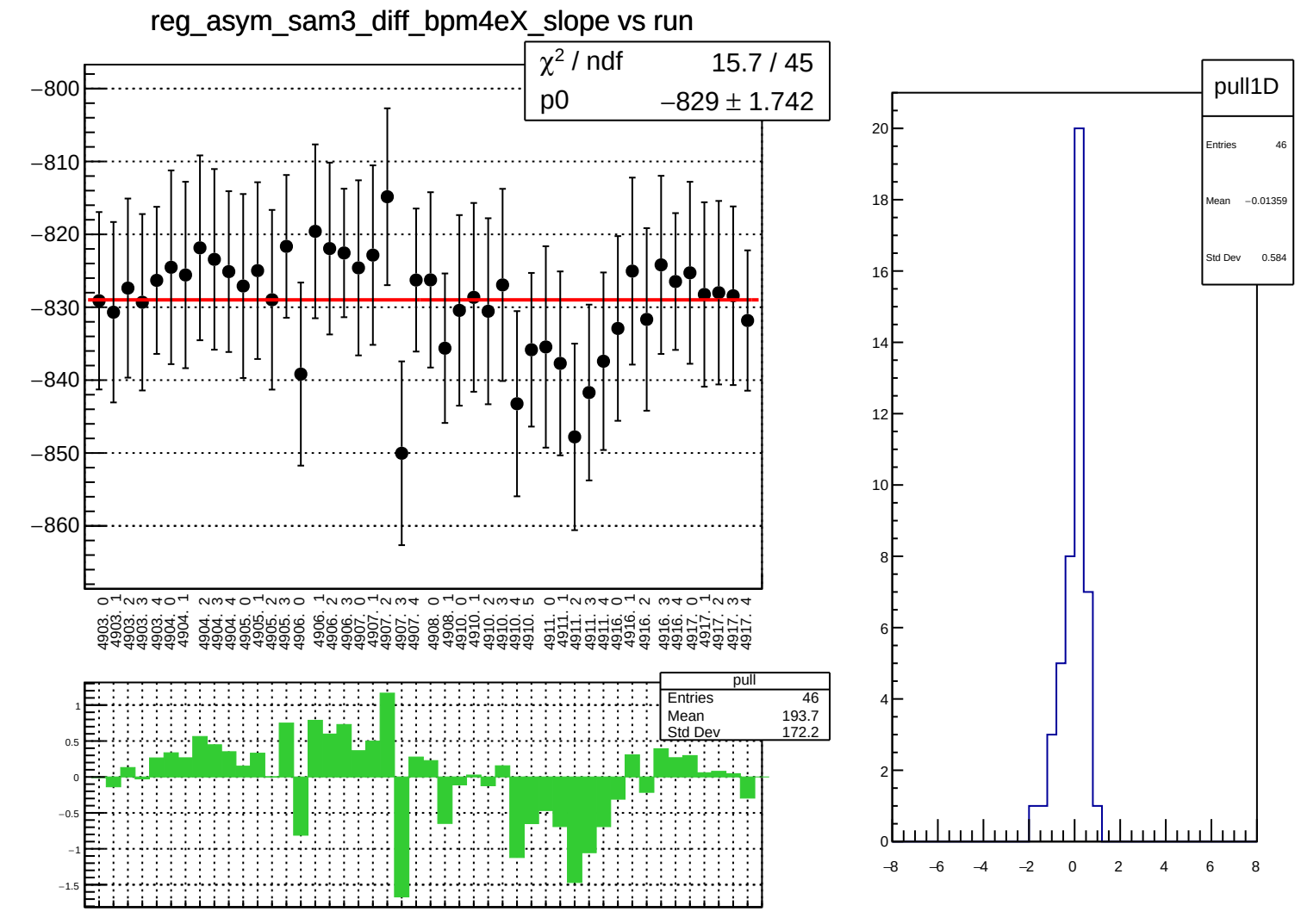

pull1D
Entries 46
Mean 0.006773
Std Dev 0.872

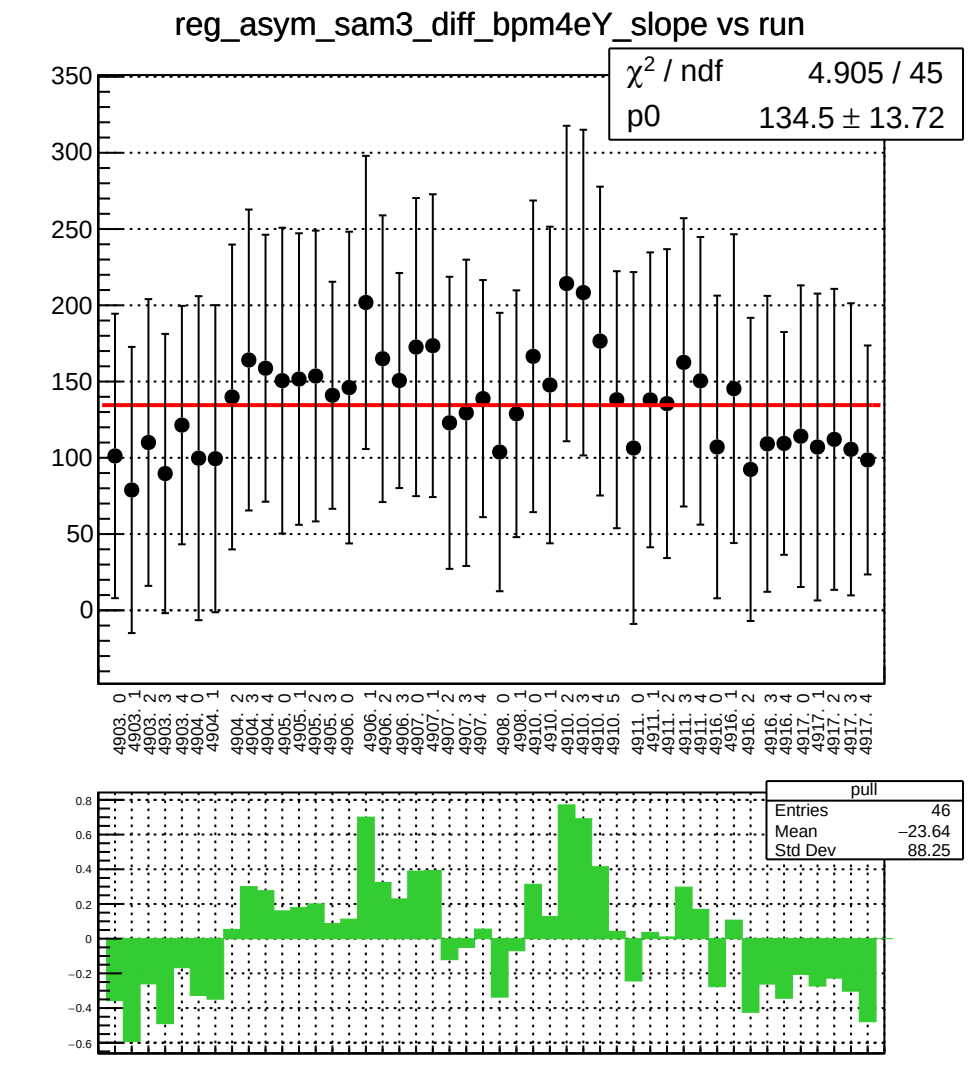

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 35.38 / 45
p0 20.55 ± 1.972
pull
Entries 46
Mean 45.69
Std Dev 30.33

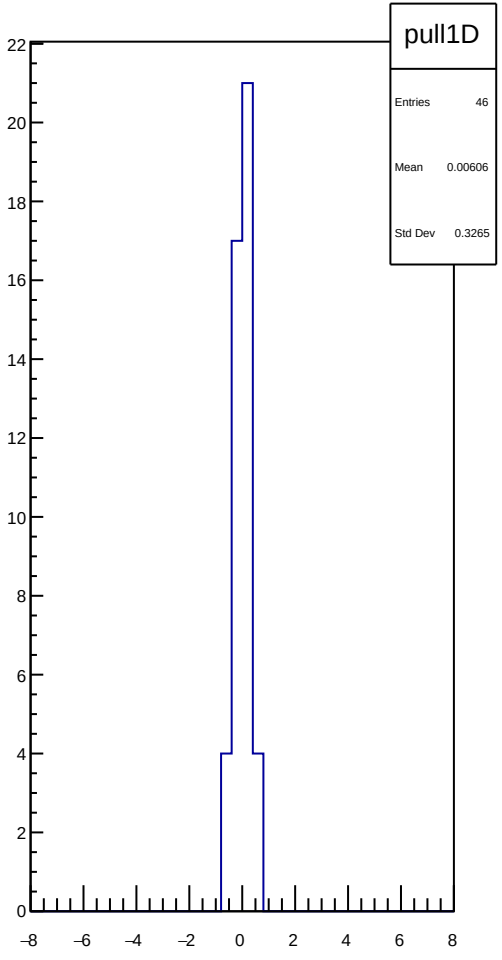

pull1D
Entries 46
Mean 0.05208
Std Dev 0.8755

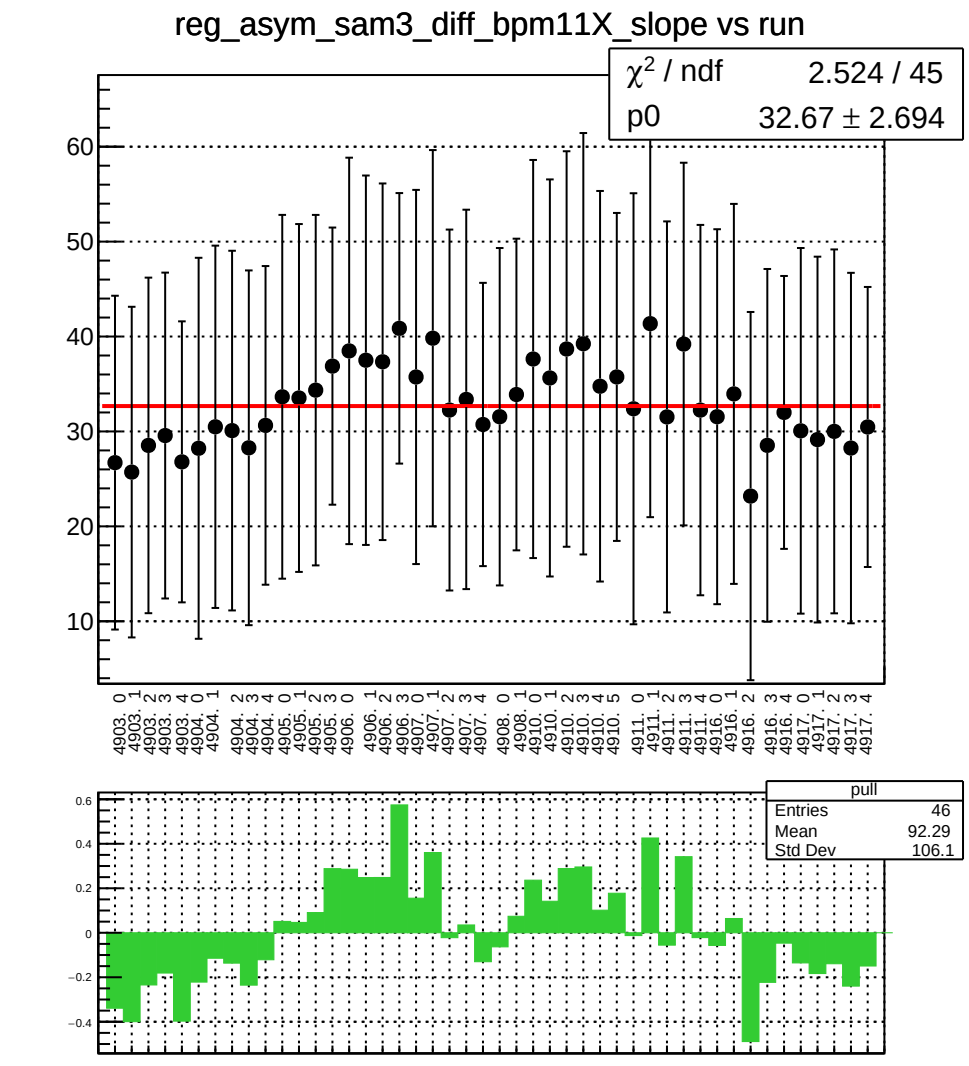

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 22.08 / 45
p0 469.6 ± 8.548
600
550
500
450
400
350
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 5.999
Std Dev 60.98
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.0195
Std Dev 0.6926
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

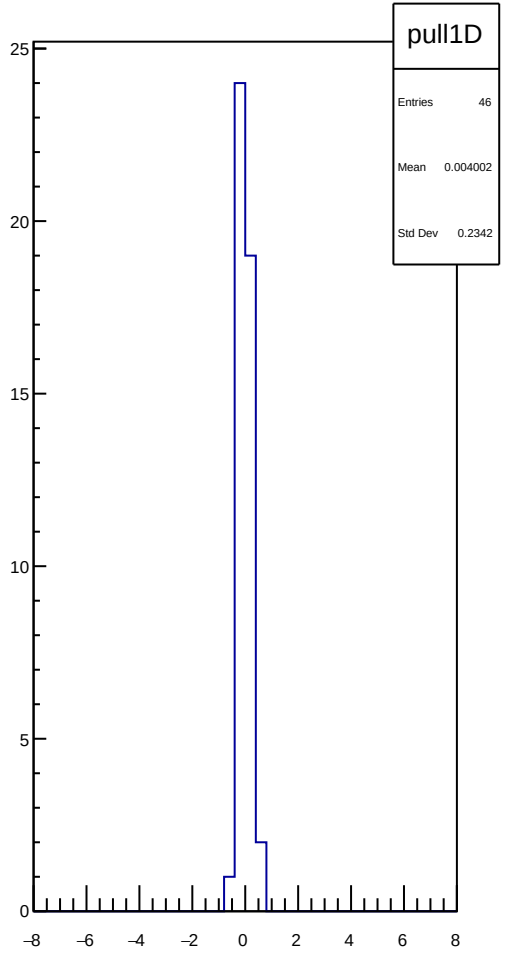

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.938 / 45
p0 −255.9 ± 11.89
−100
−150
−200
−250
−300
−350
−400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1842
Std Dev 1906
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.0001957
Std Dev 0.2926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

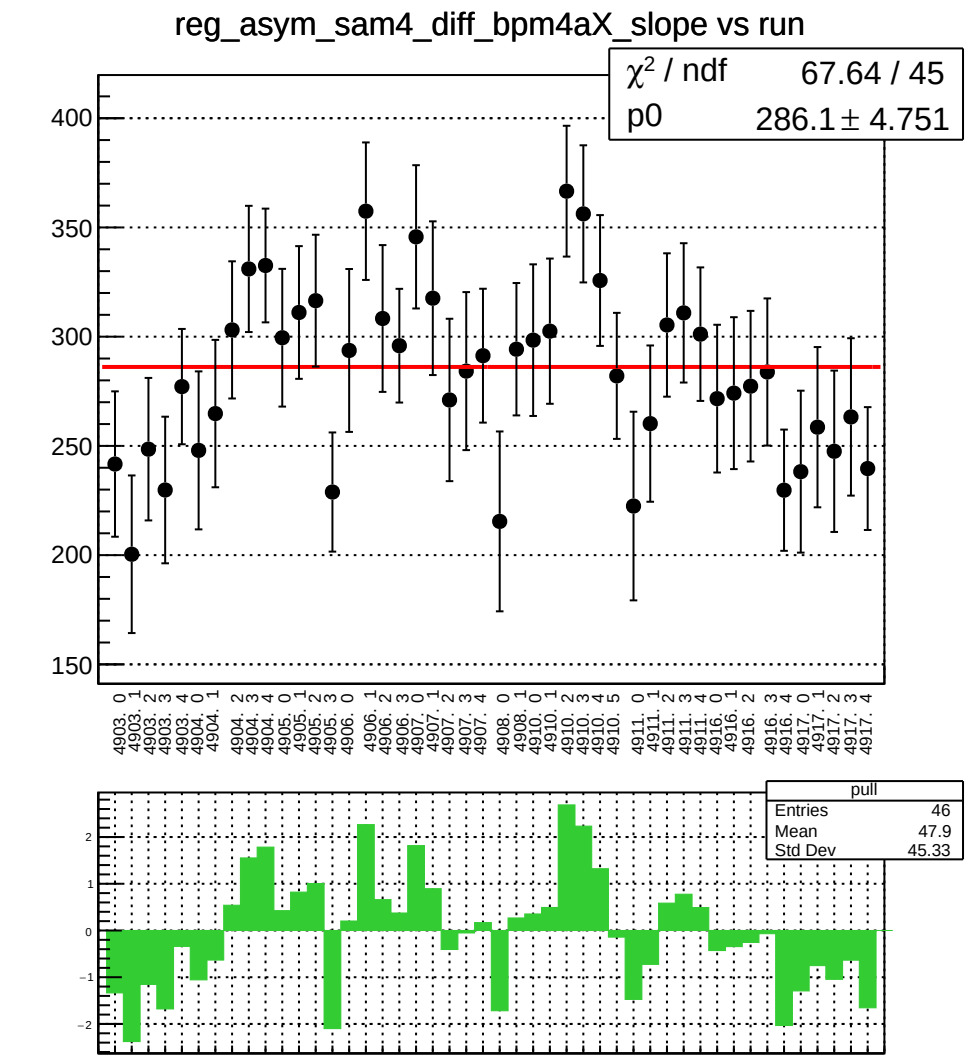

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 15.7 / 45
p0 −829 ± 1.742
−800
−810
−820
−830
−840
−850
−860
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 193.7
Std Dev 172.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.01359
Std Dev 0.584
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

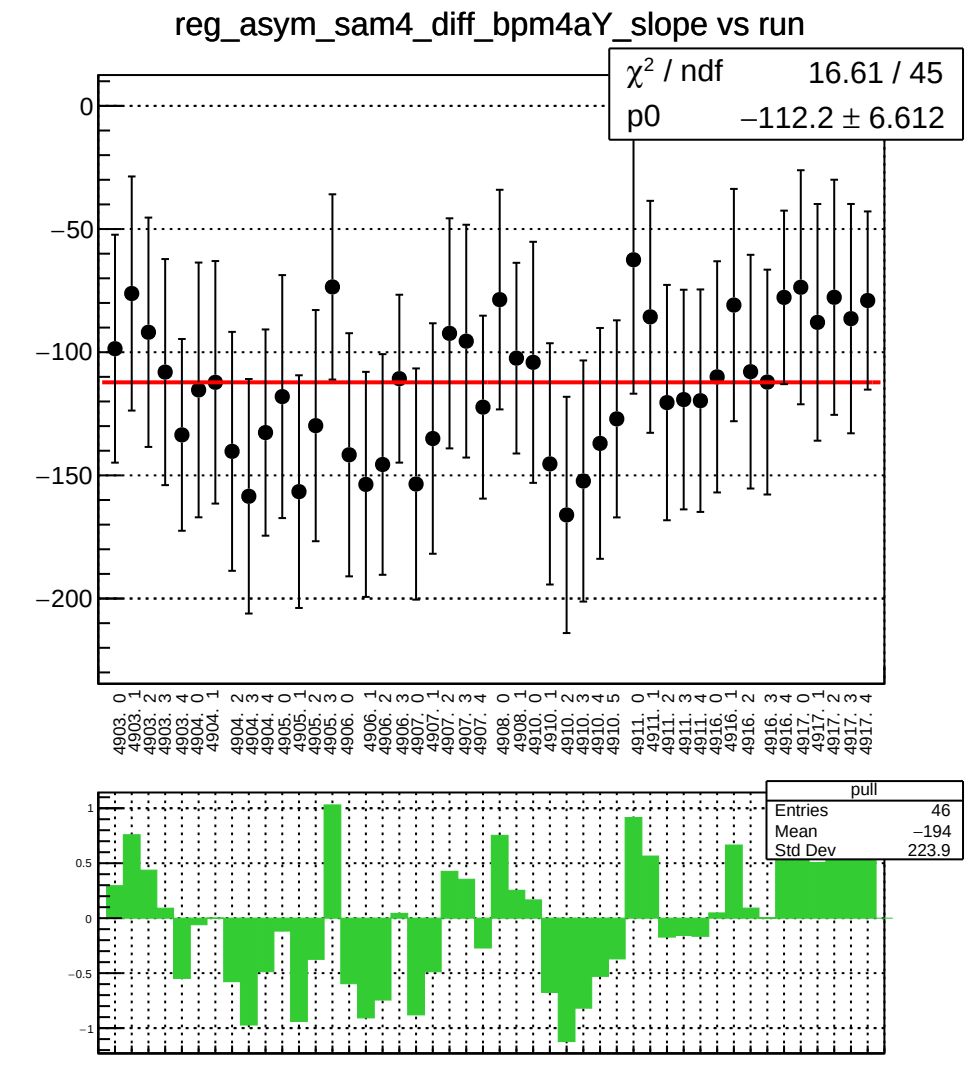

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.905 / 45
p0 134.5 ± 13.72
pull
Entries 46
Mean −23.64
Std Dev 88.25

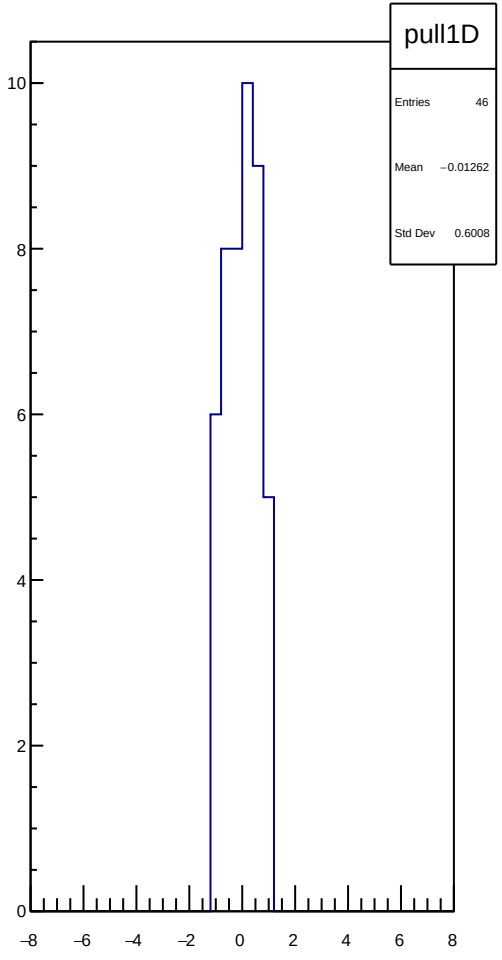

pull1D
Entries 46
Mean 0.00606
Std Dev 0.3265

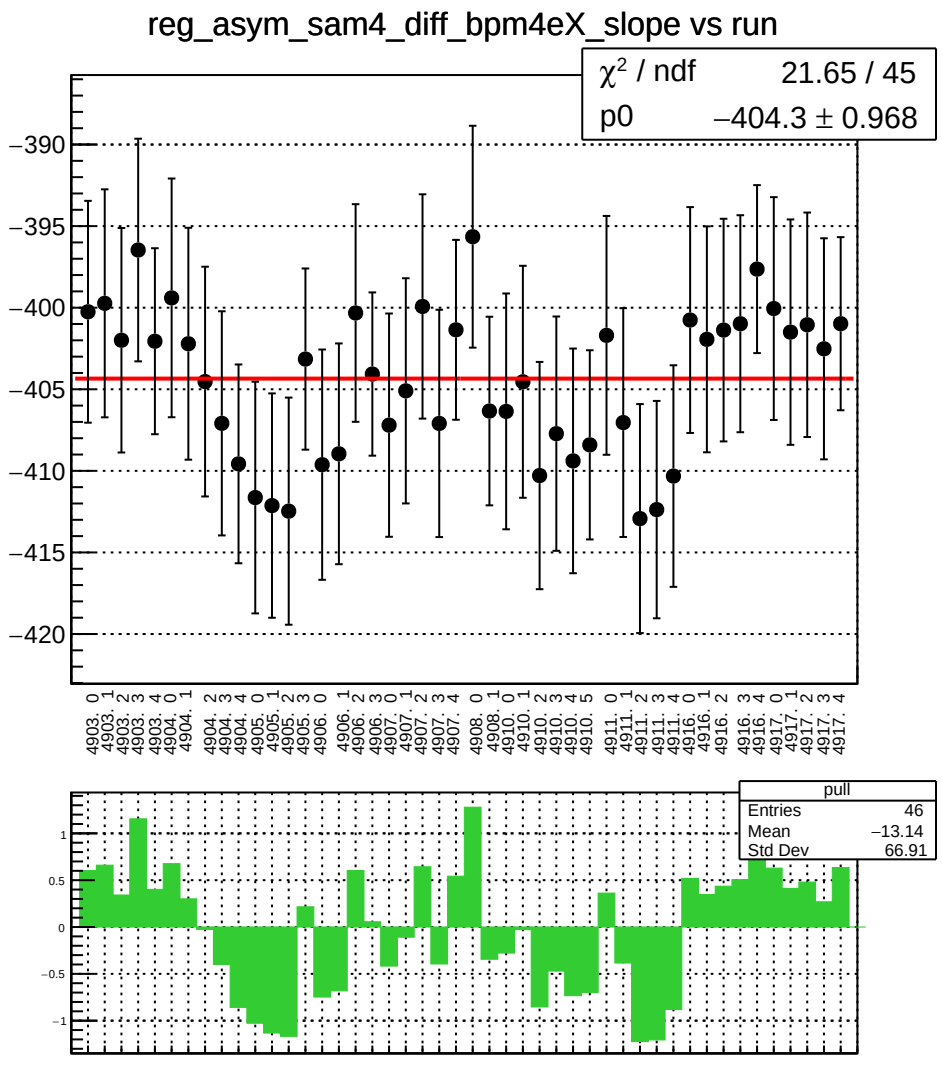

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 2.524 / 45
p0 32.67 ± 2.694
pull
Entries 46
Mean 92.29
Std Dev 106.1

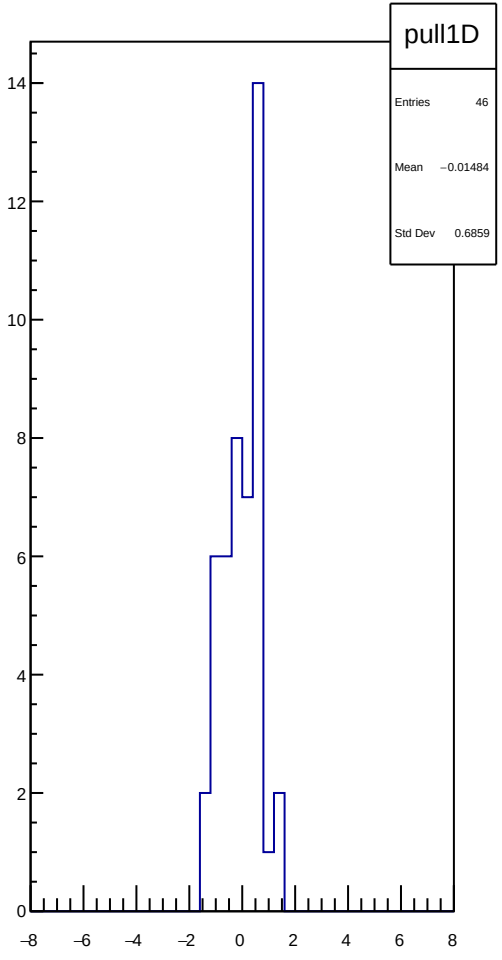

pull1D
Entries 46
Mean 0.004002
Std Dev 0.2342

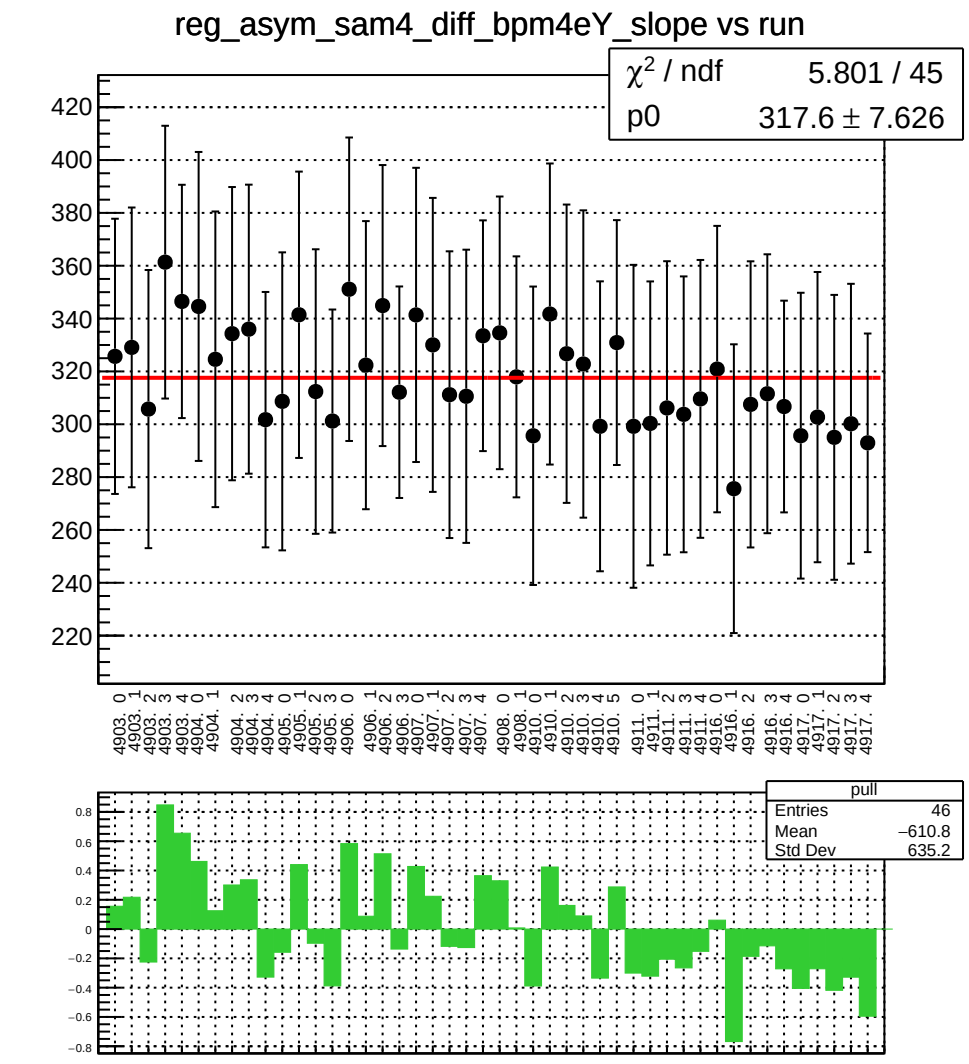

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 67.64 / 45
p0 286.1 ± 4.751
400
350
300
250
200
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 47.9
Std Dev 45.33
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.04315
Std Dev 1.212
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

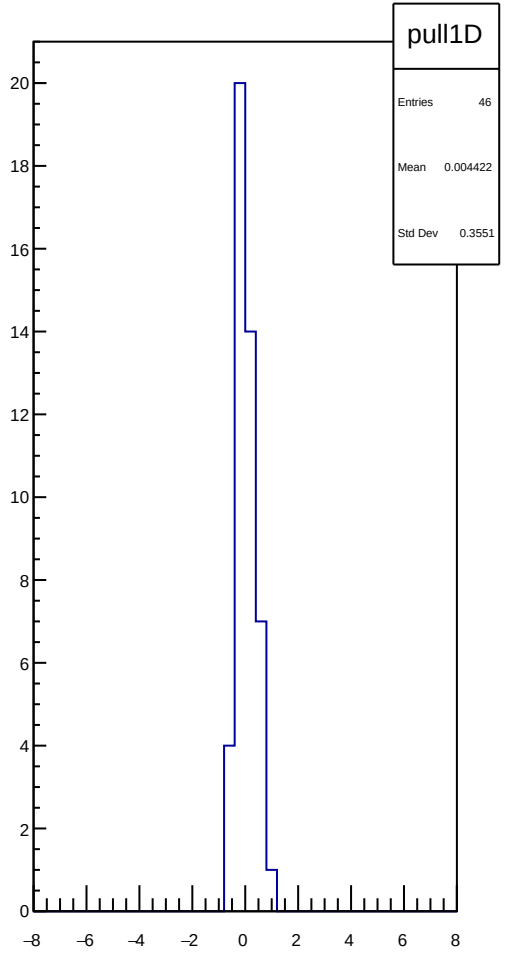

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 16.61 / 45
p0 −112.2 ± 6.612
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −194
Std Dev 223.9
1
0.5
0
−0.5
−1

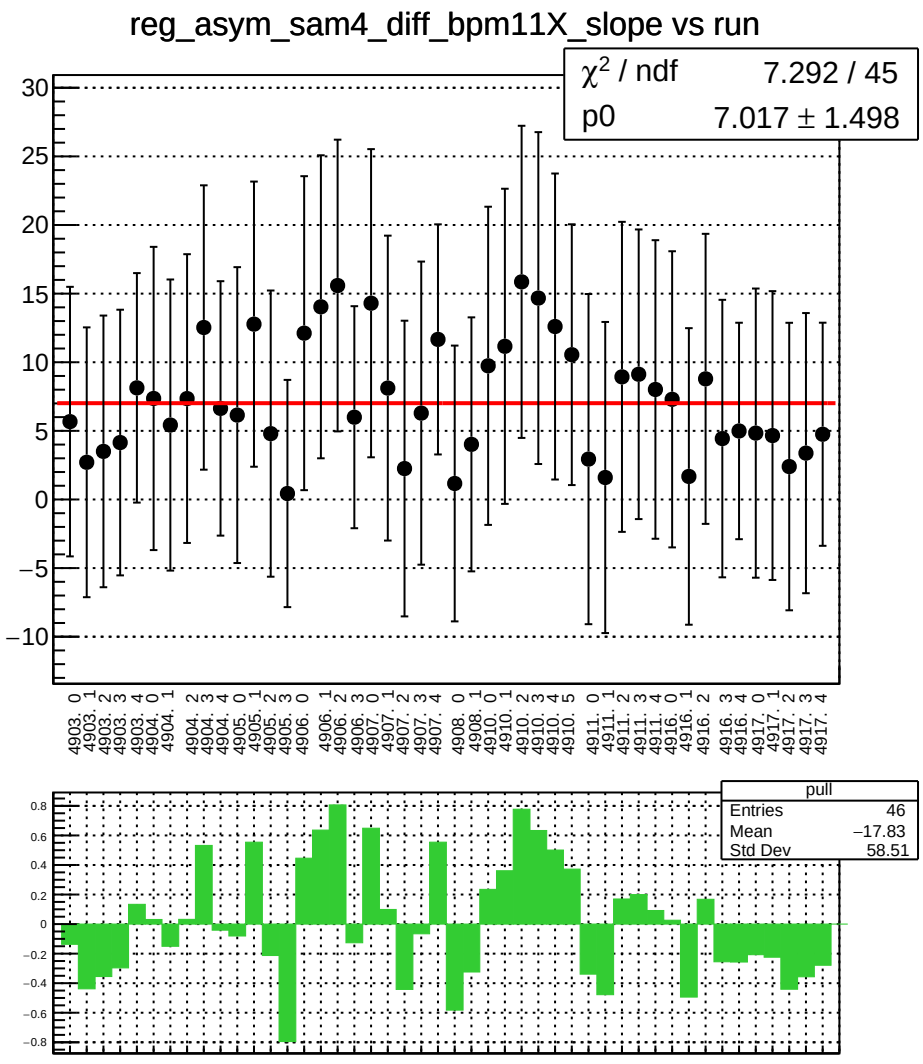

pull1D
Entries 46
Mean −0.01262
Std Dev 0.6008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

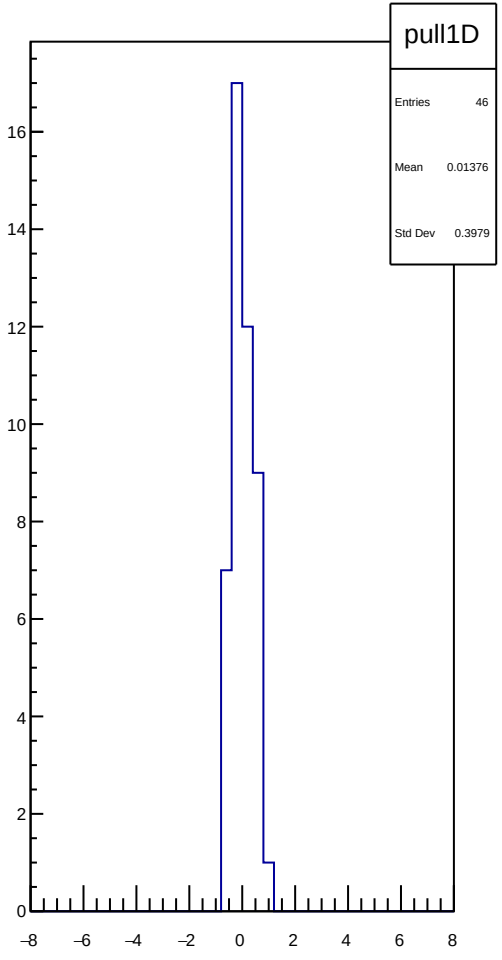

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 21.65 / 45
p0 −404.3 ± 0.968
−390
−395
−400
−405
−410
−415
−420
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −13.14
Std Dev 66.91
1
0.5
0
−0.5
−1

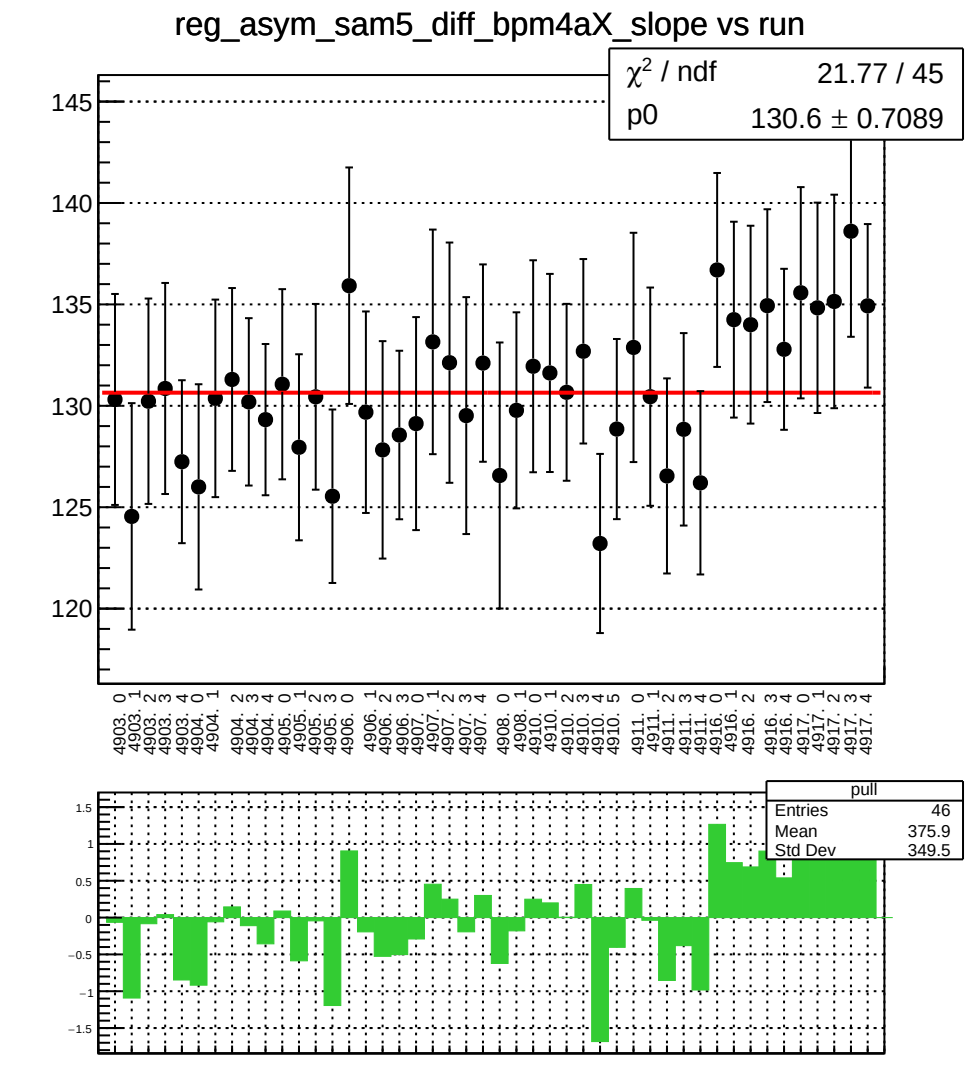

pull1D
Entries 46
Mean −0.01484
Std Dev 0.6859
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

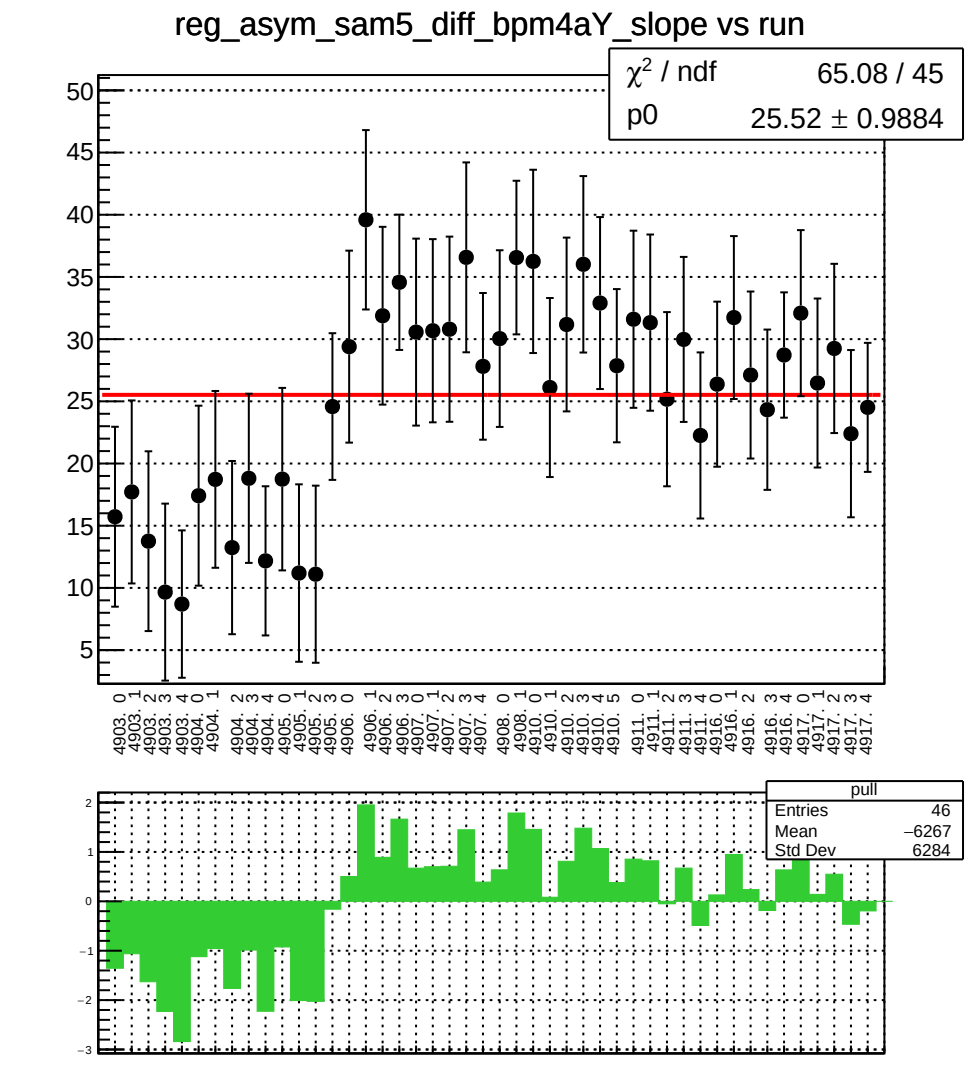

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 5.801 / 45
p0 317.6 ± 7.626
pull
Entries 46
Mean −610.8
Std Dev 635.2

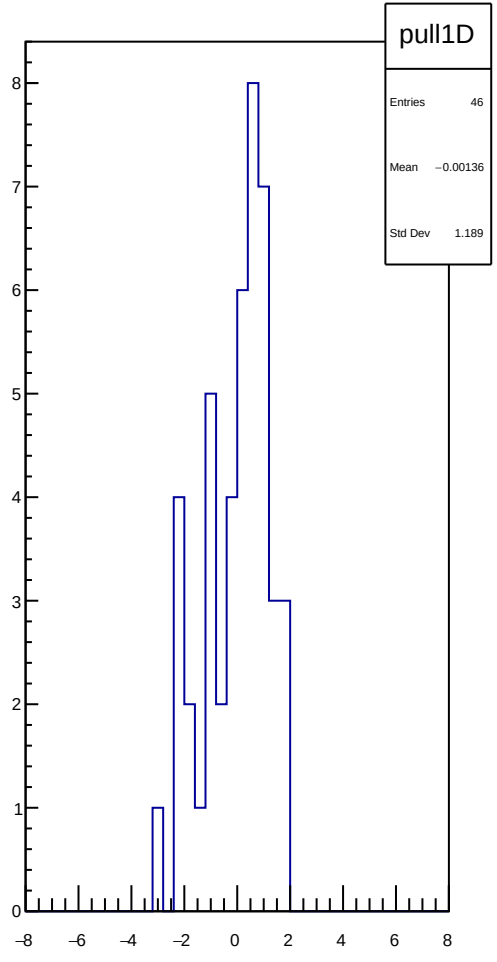

pull1D
Entries 46
Mean 0.004422
Std Dev 0.3551

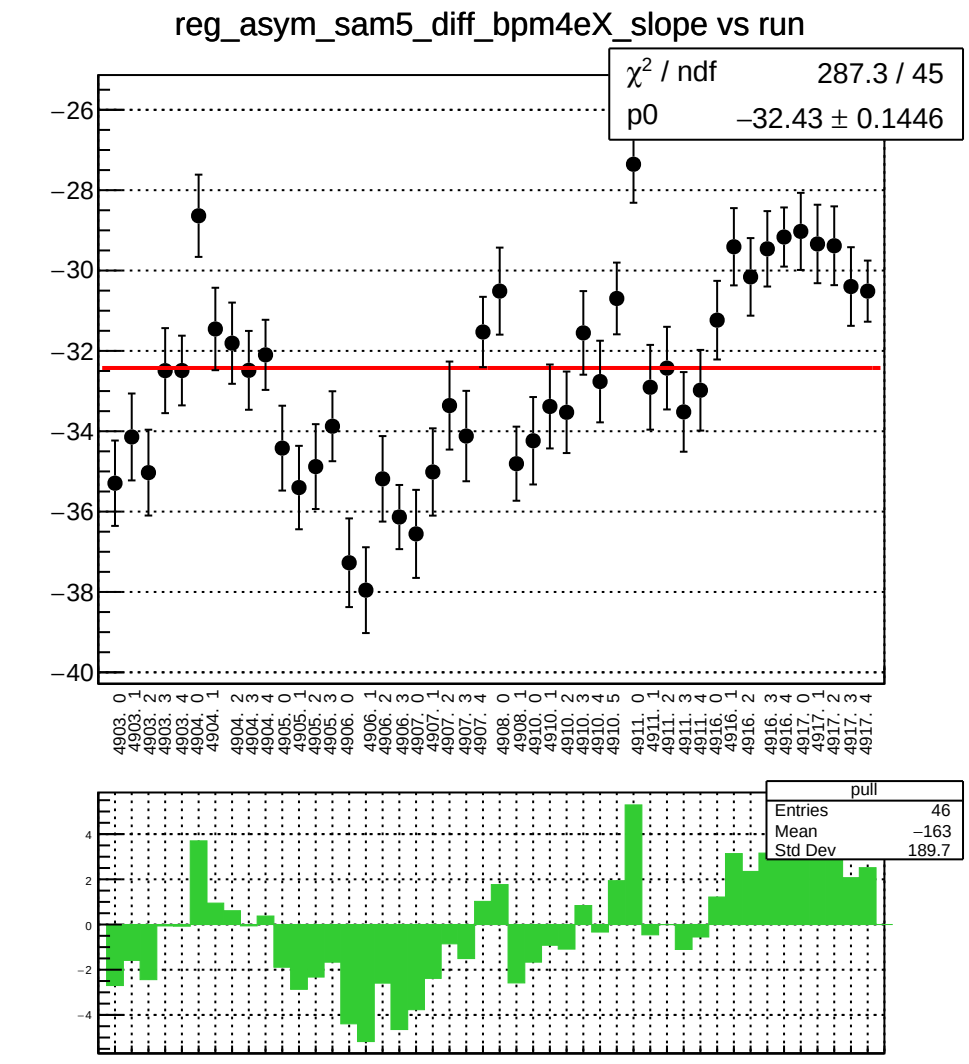

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 7.292 / 45
p0 7.017 ± 1.498
pull
Entries 46
Mean −17.83
Std Dev 58.51

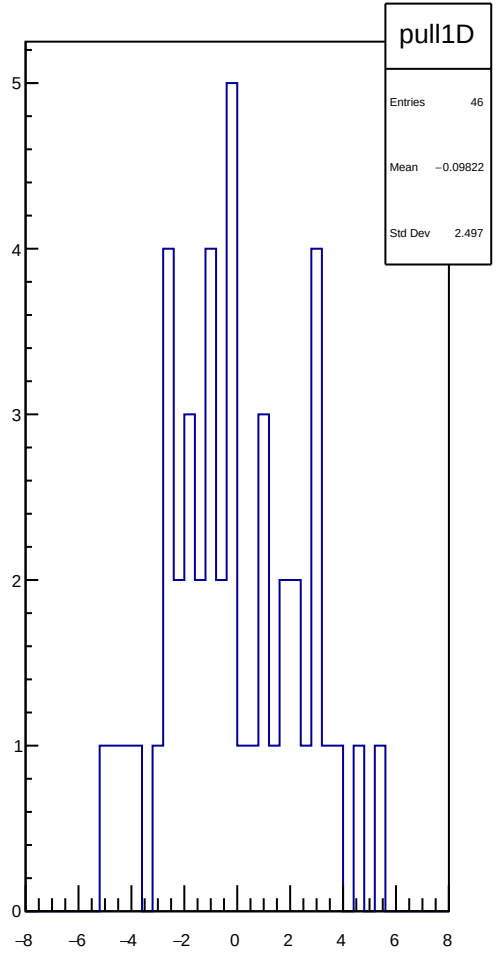

pull1D
Entries 46
Mean 0.01376
Std Dev 0.3979

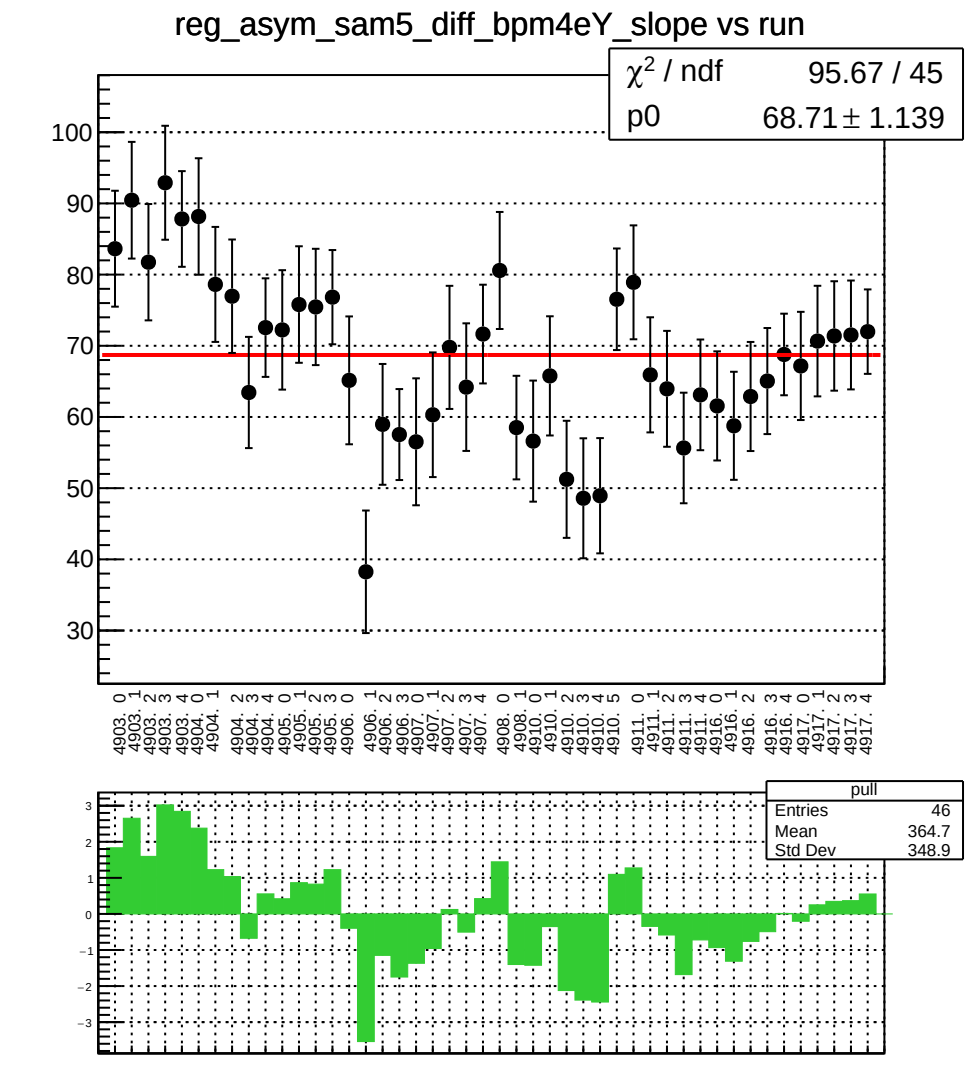

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 21.77 / 45
p0 130.6 ± 0.7089
145
140
135
130
125
120
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 375.9
Std Dev 349.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.01333
Std Dev 0.6878
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

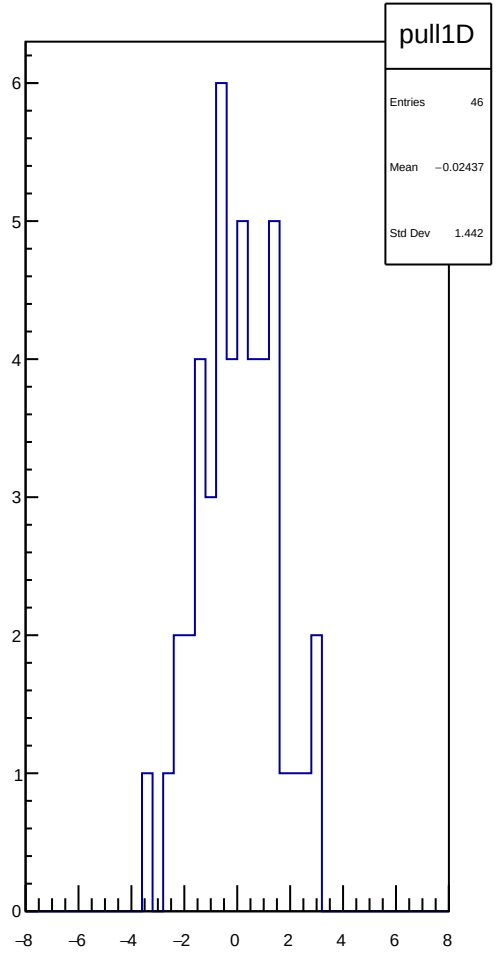

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 65.08 / 45
p0 25.52 ± 0.9884
pull
Entries 46
Mean −6267
Std Dev 6284

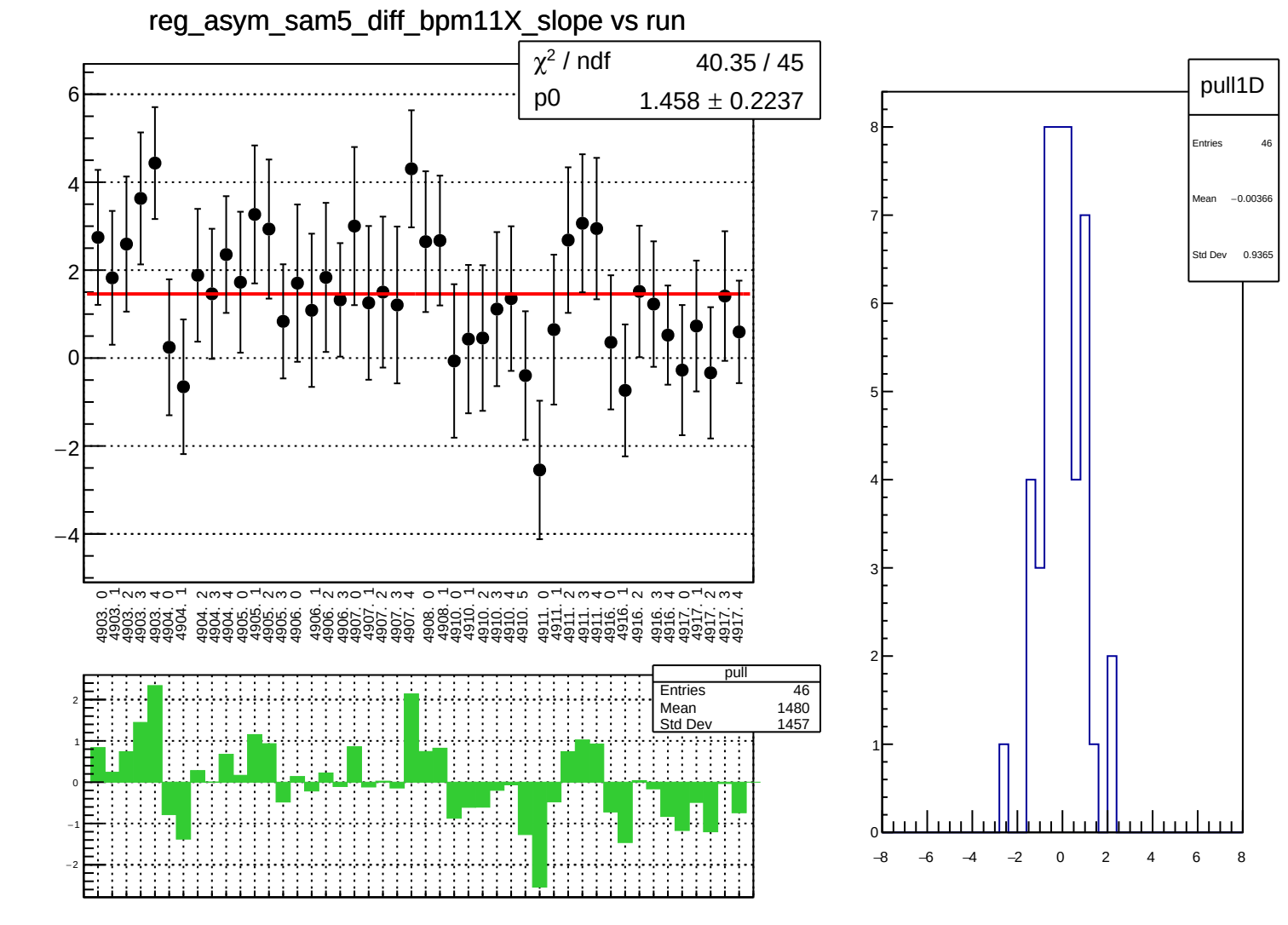

pull1D
Entries 46
Mean −0.00136
Std Dev 1.189

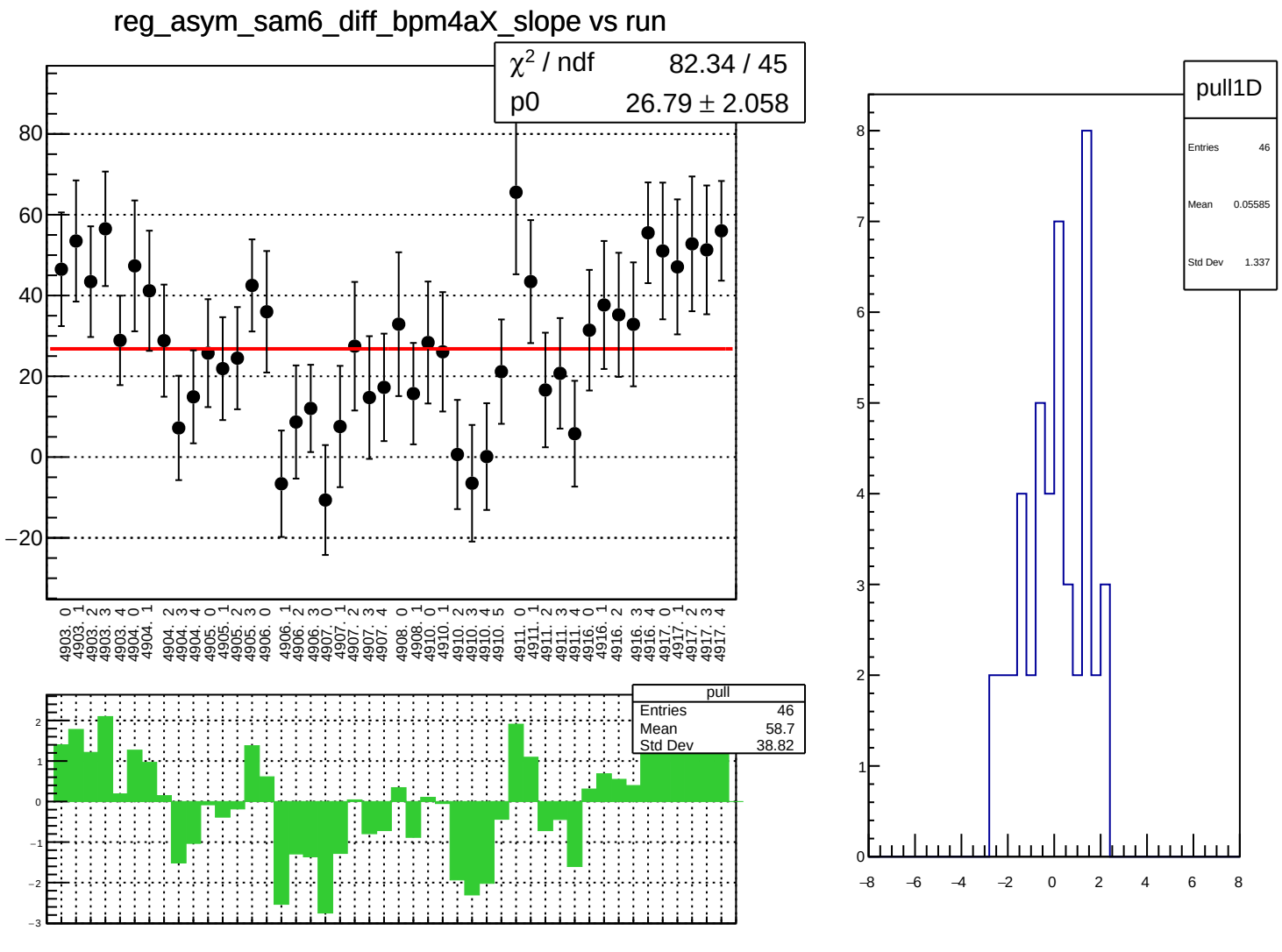

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 287.3 / 45
p0 −32.43 ± 0.1446
pull
Entries 46
Mean −163
Std Dev 189.7

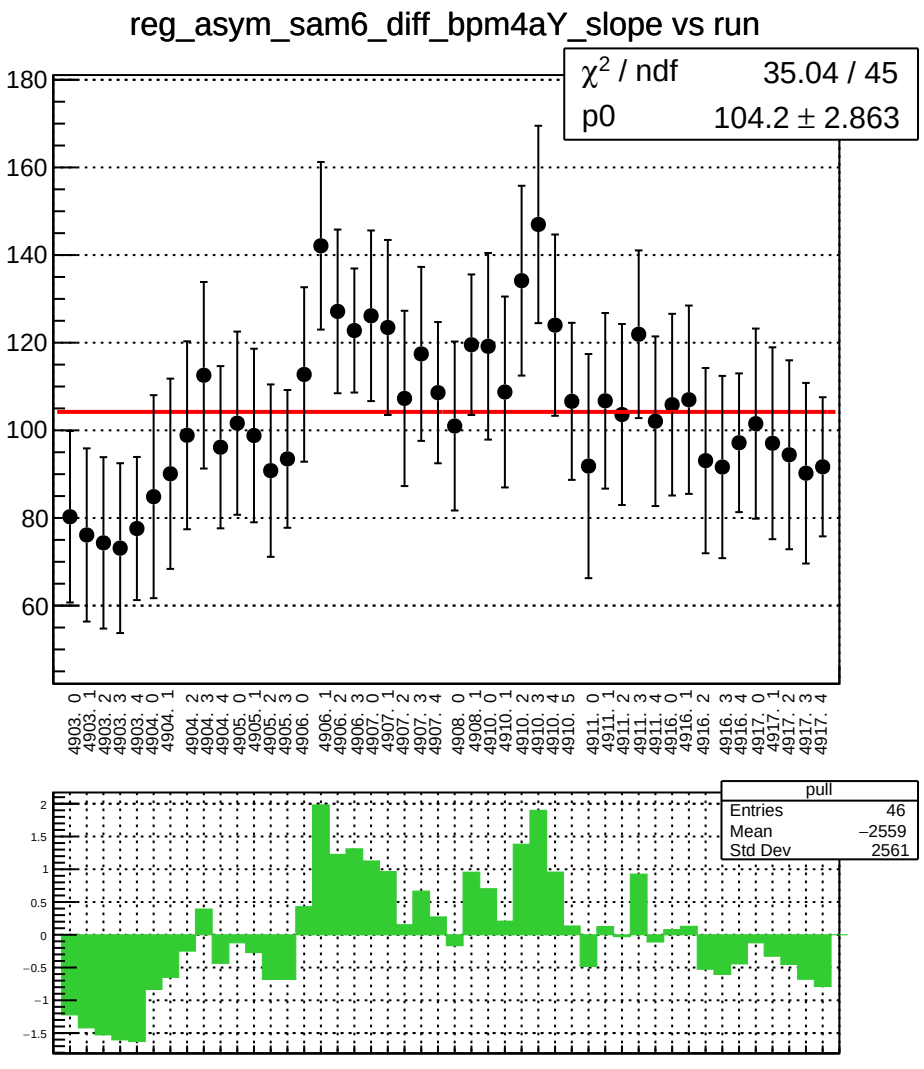

pull1D
Entries 46
Mean −0.09822
Std Dev 2.497

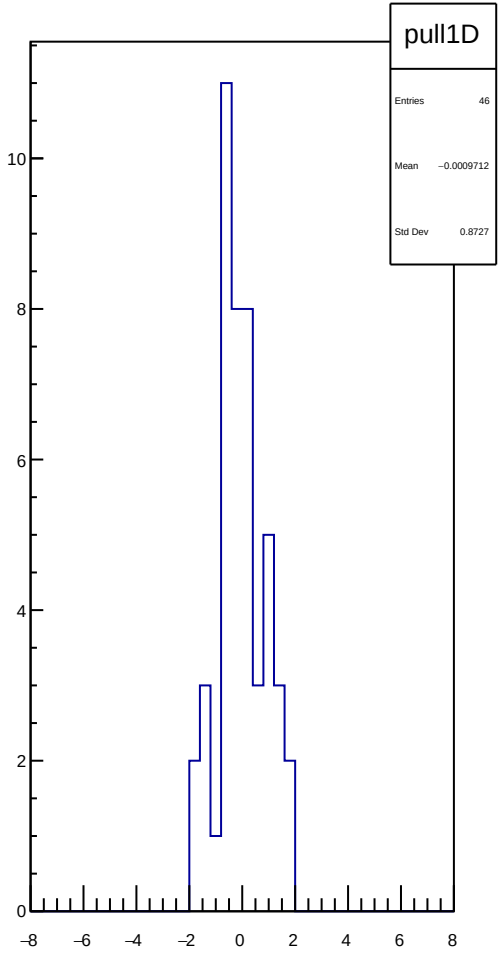

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 95.67 / 45
p0 68.71 ± 1.139
pull
Entries 46
Mean 364.7
Std Dev 348.9

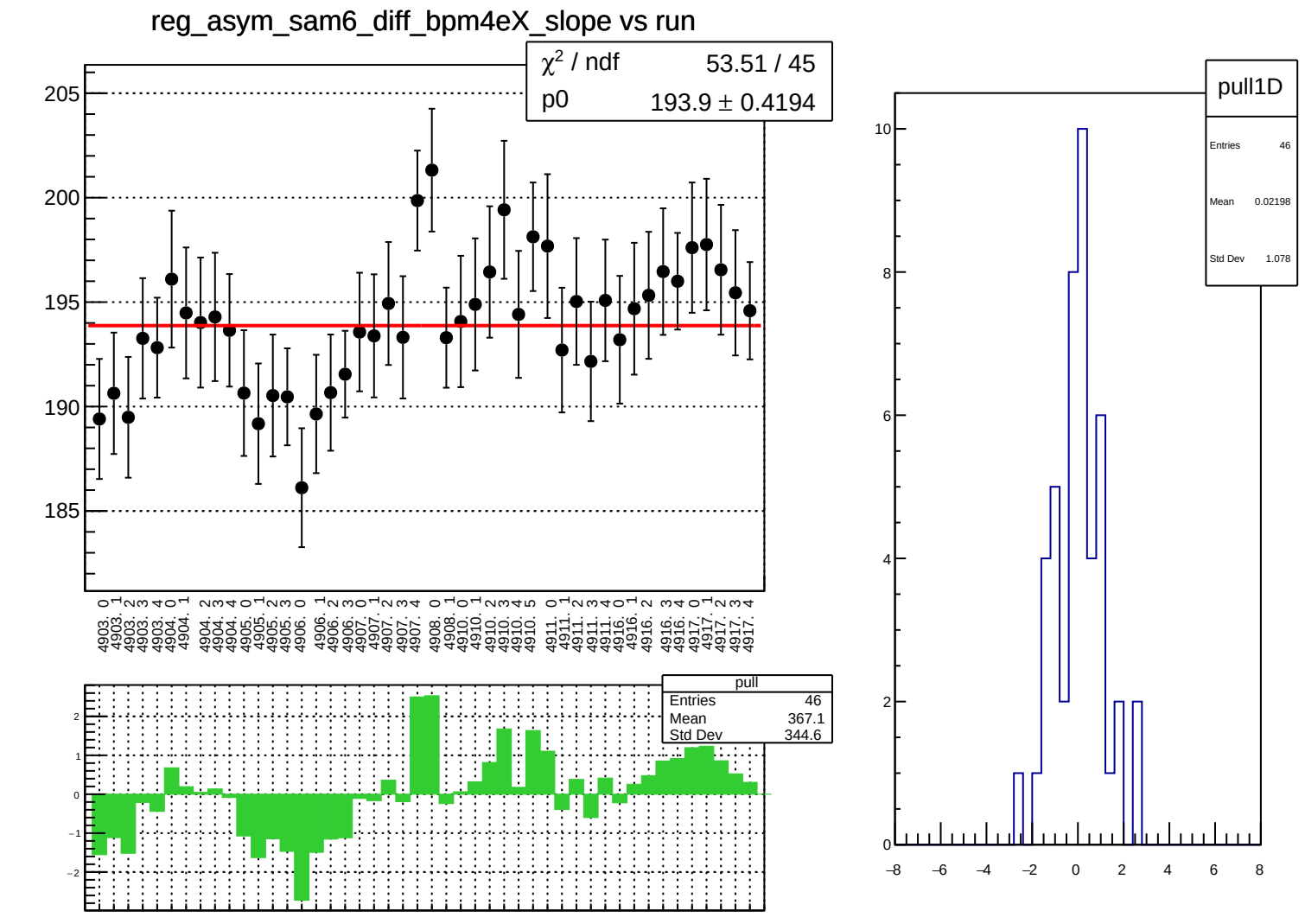

pull1D
Entries 46
Mean −0.02437
Std Dev 1.442

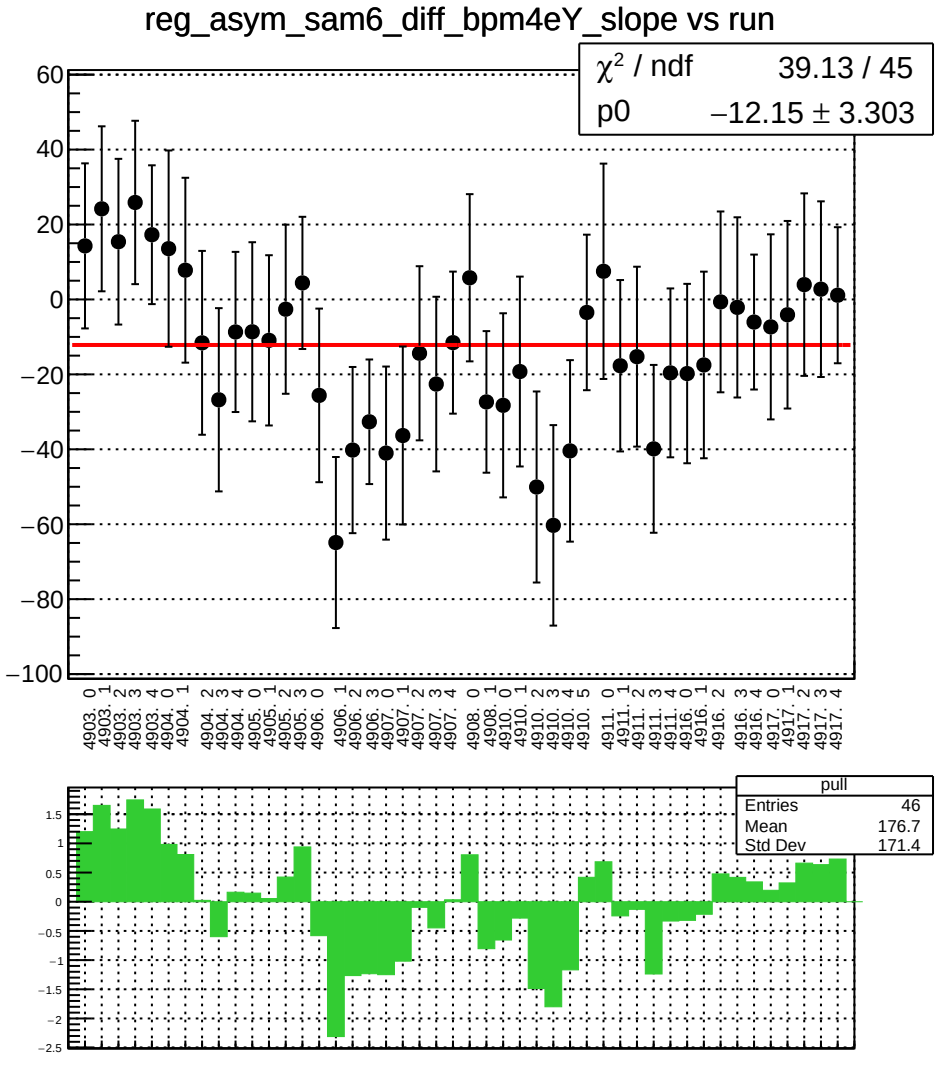

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 40.35 / 45
p0 1.458 ± 0.2237
pull
Entries 46
Mean 1480
Std Dev 1457
pull1D
Entries 46
Mean −0.00366
Std Dev 0.9365

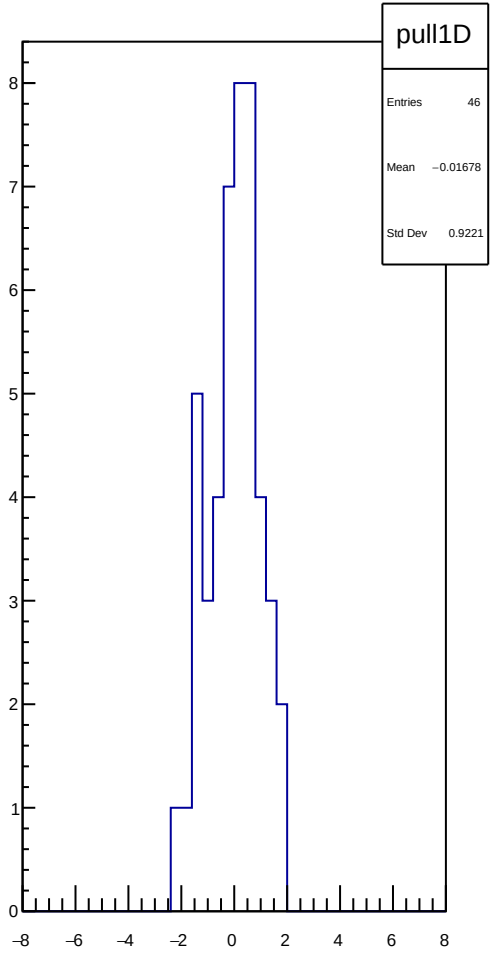

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 82.34 / 45
p0 26.79 ± 2.058
pull
Entries 46
Mean 58.7
Std Dev 38.82
pull1D
Entries 46
Mean 0.05585
Std Dev 1.337

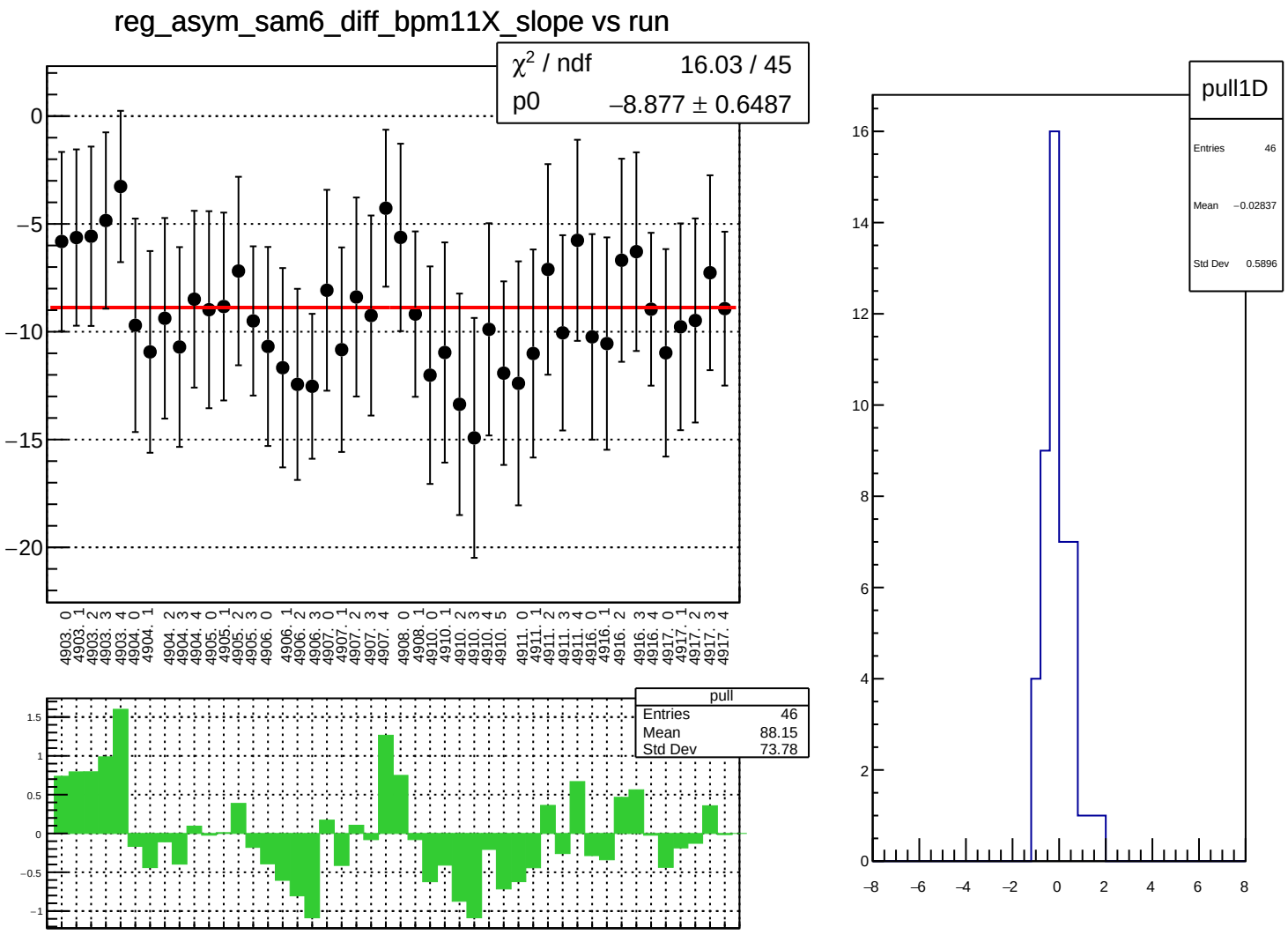

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 35.04 / 45
p0 104.2 ± 2.863
180
160
140
120
100
80
60
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −2559
Std Dev 2561
2
1.5
1
0.5
0
−0.5
−1
−1.5

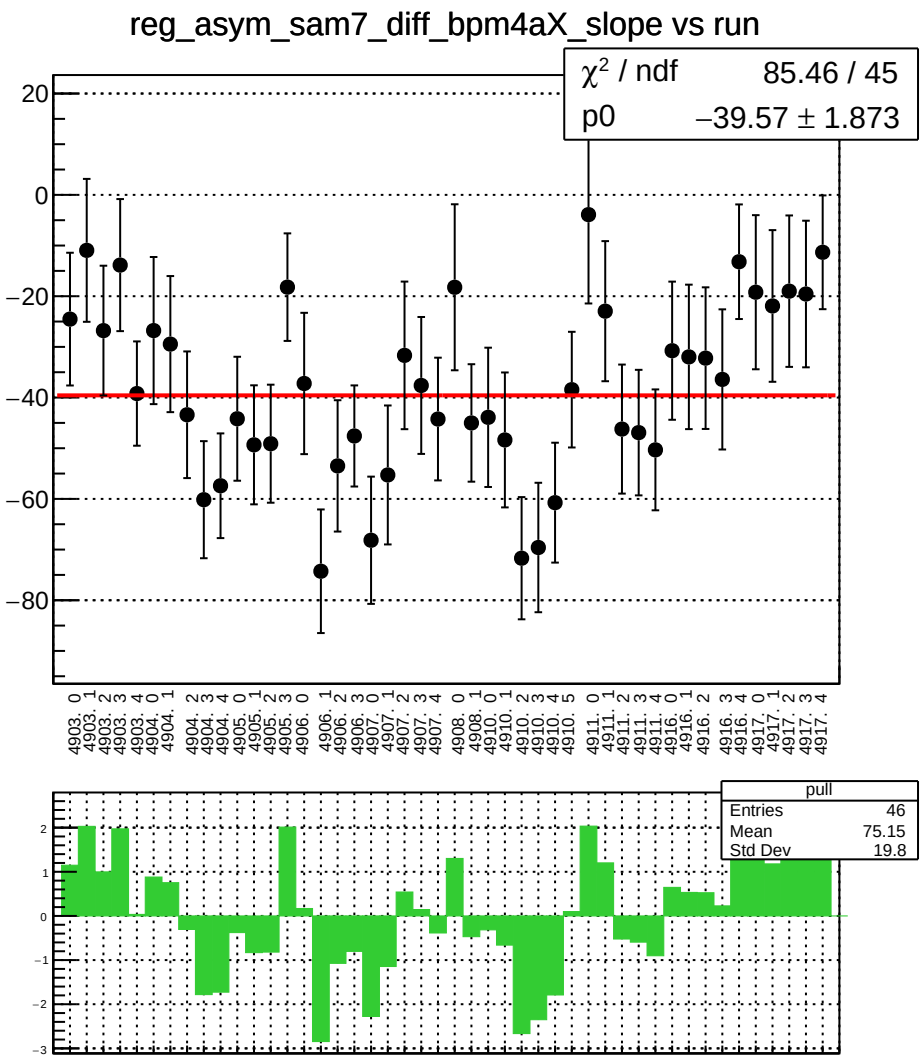

pull1D
Entries 46
Mean −0.0009712
Std Dev 0.8727
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

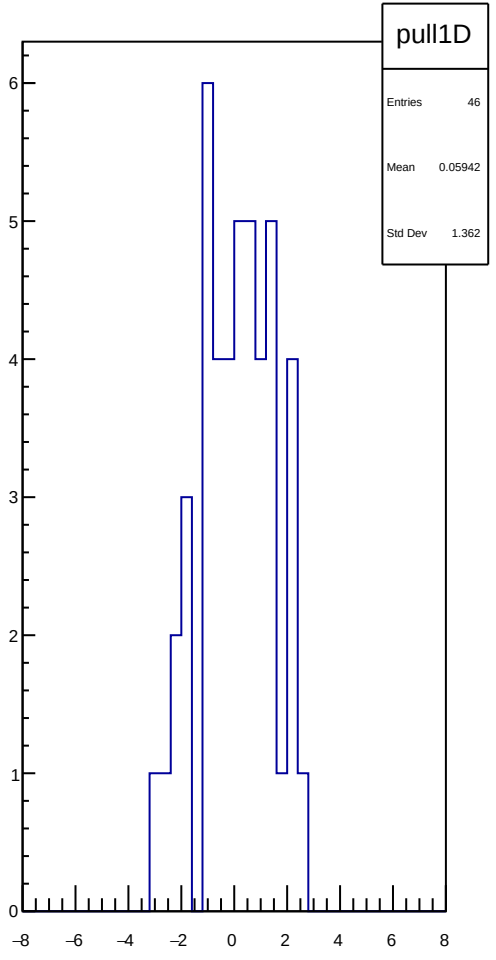

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 53.51 / 45
p0 193.9 ± 0.4194
205
200
195
190
185
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 367.1
Std Dev 344.6
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02198
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

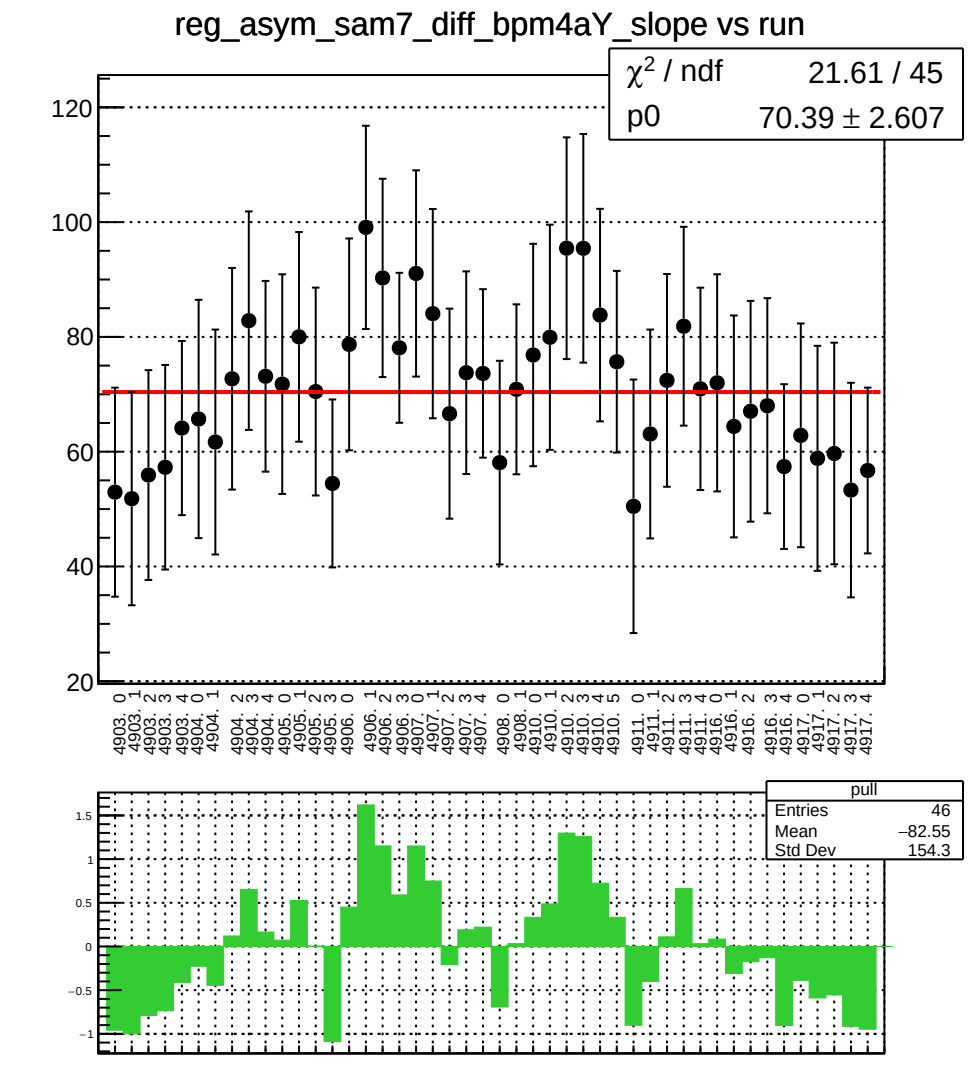

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 39.13 / 45
p0 −12.15 ± 3.303
pull
Entries 46
Mean 176.7
Std Dev 171.4

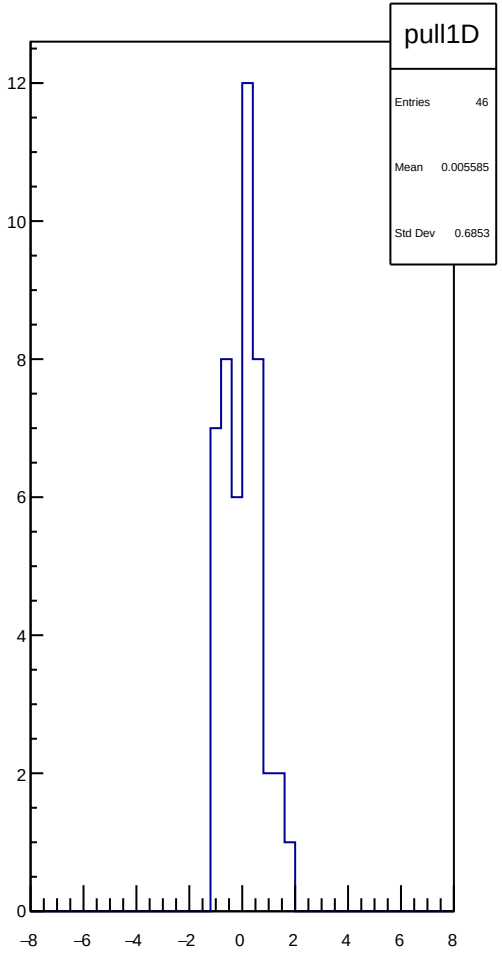

pull1D
Entries 46
Mean −0.01678
Std Dev 0.9221

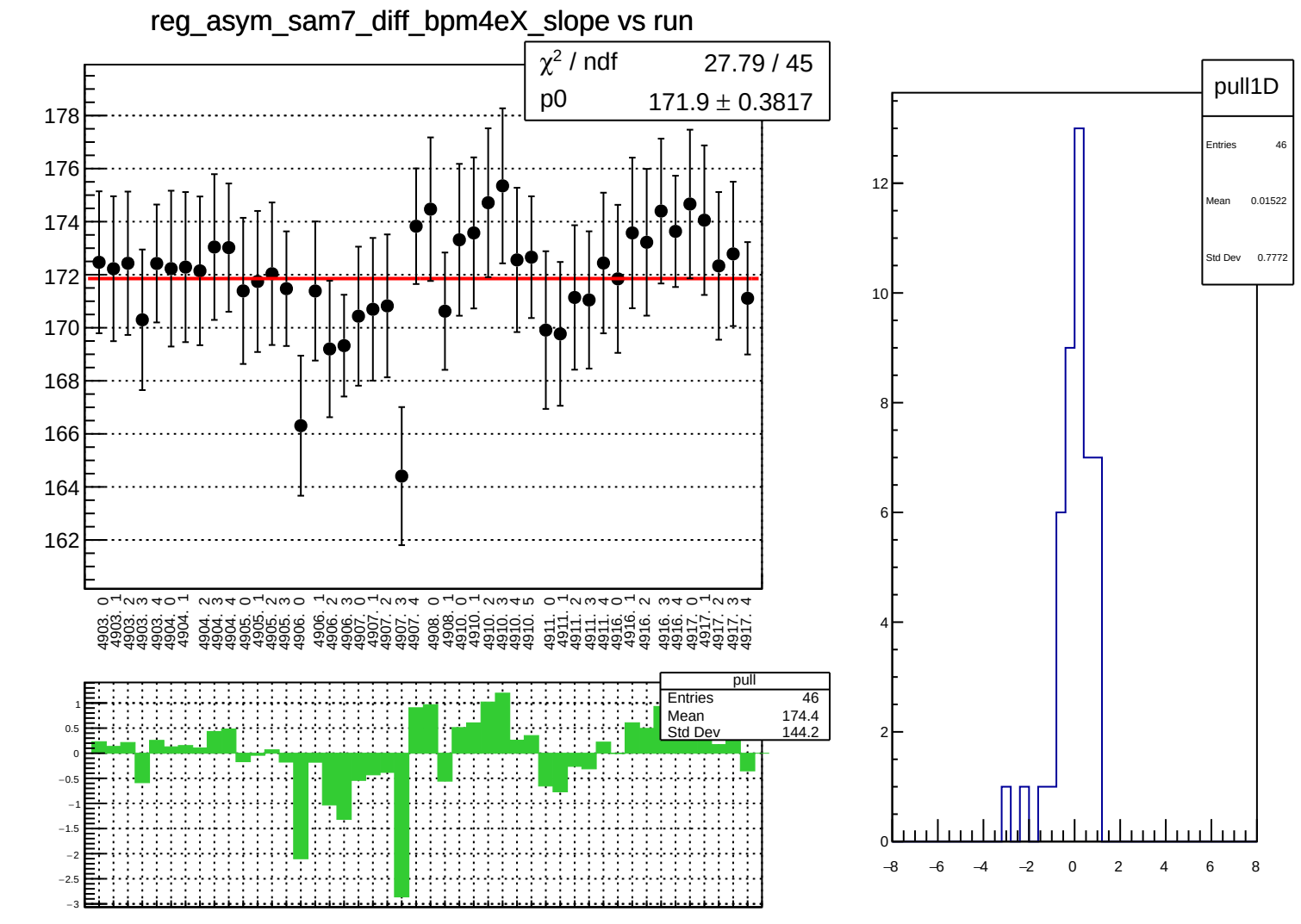

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 16.03 / 45
p0 −8.877 ± 0.6487
0
−5
−10
−15
−20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 88.15
Std Dev 73.78
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.02837
Std Dev 0.5896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

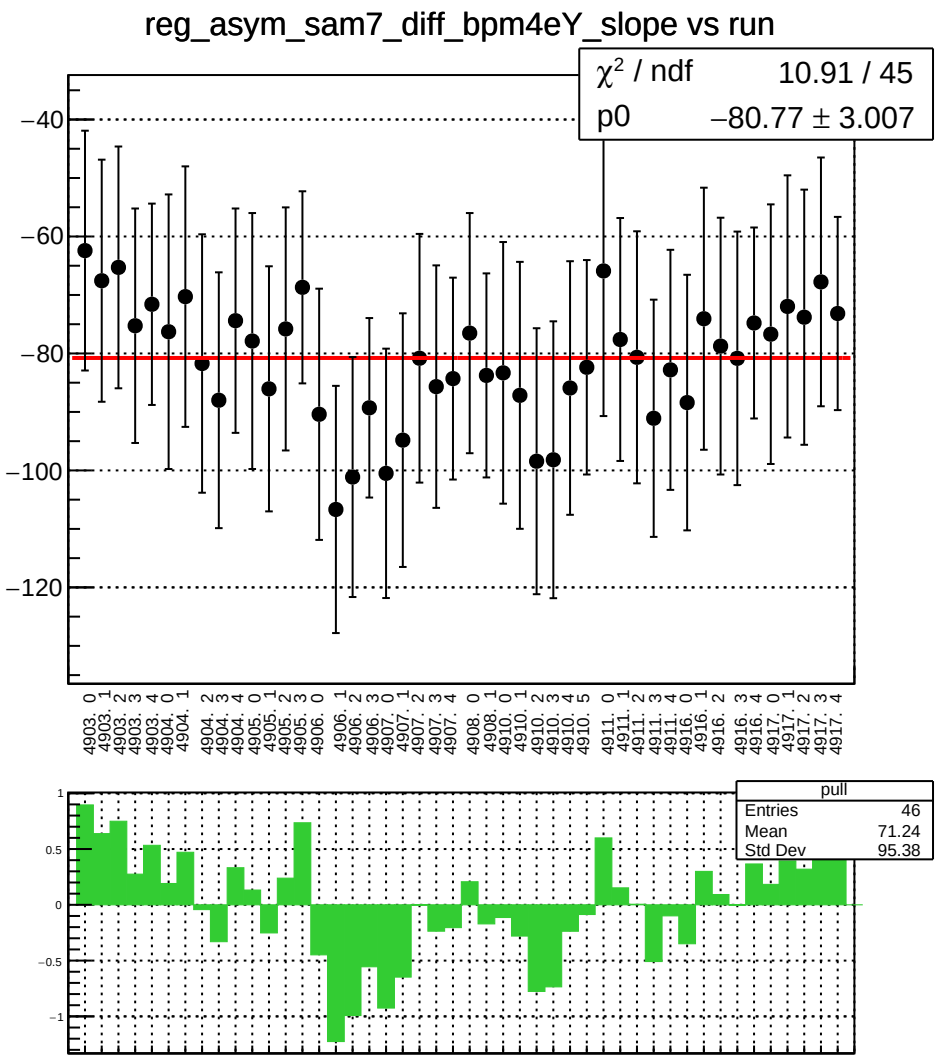

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 85.46 / 45
p0 −39.57 ± 1.873
pull
Entries 46
Mean 75.15
Std Dev 19.8

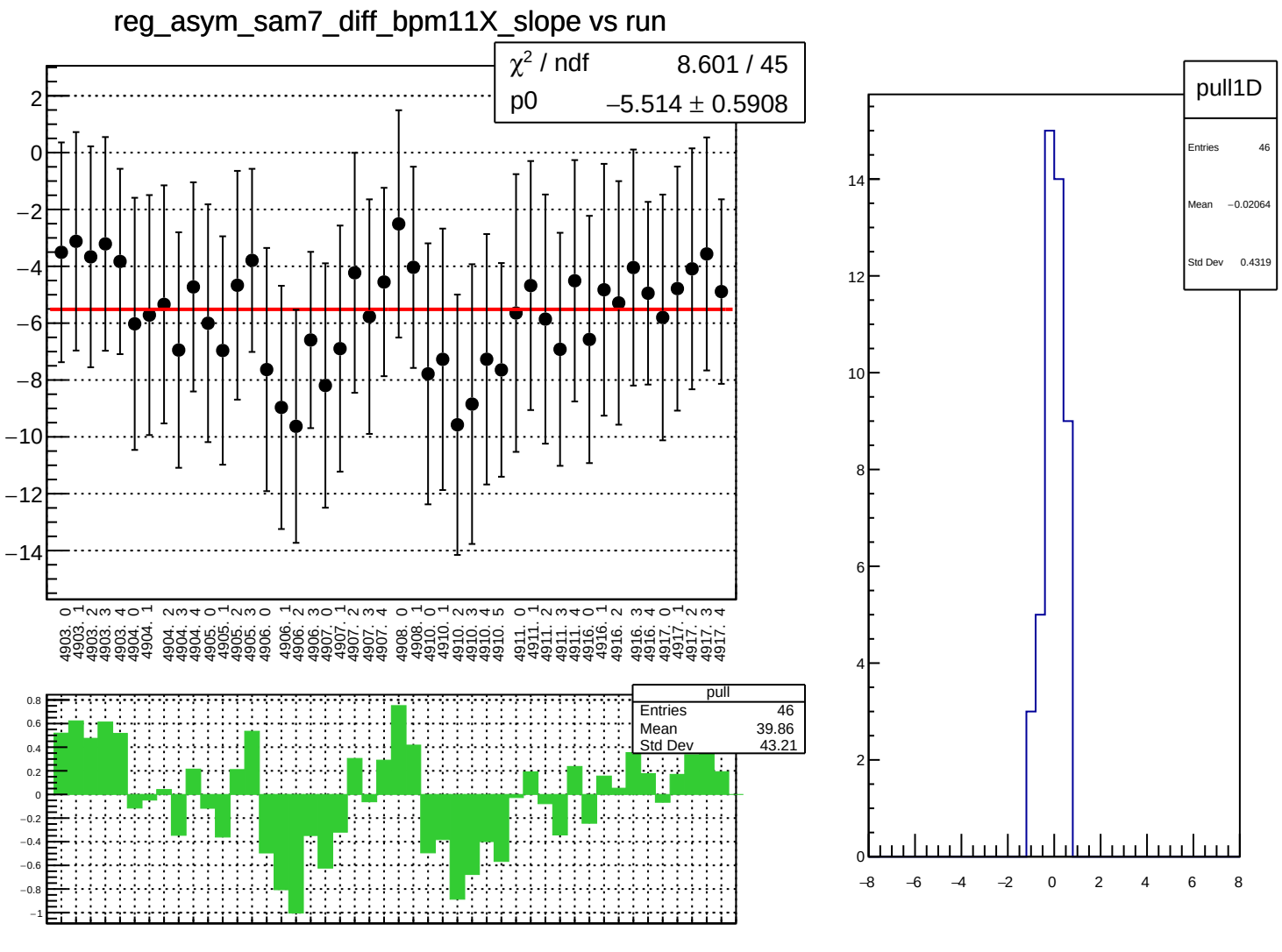

pull1D
Entries 46
Mean 0.05942
Std Dev 1.362

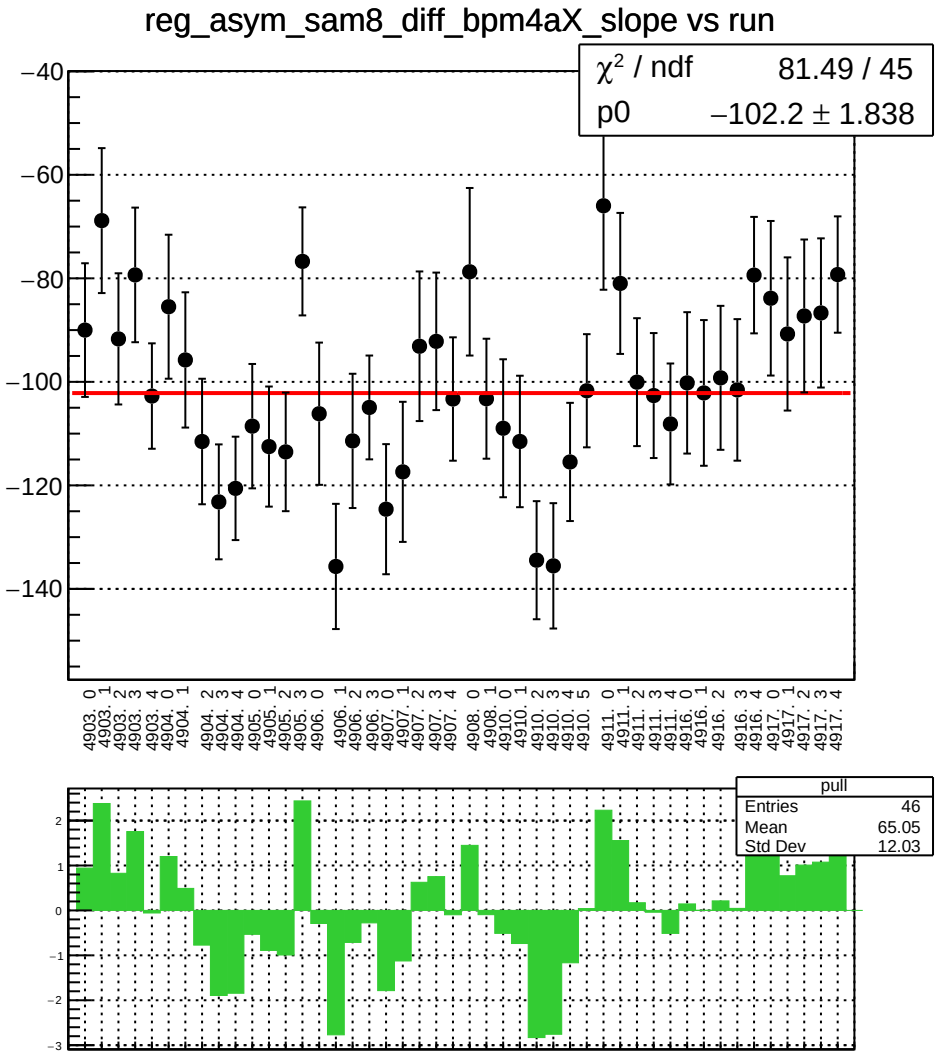

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 21.61 / 45
p0 70.39 ± 2.607
pull
Entries 46
Mean −82.55
Std Dev 154.3

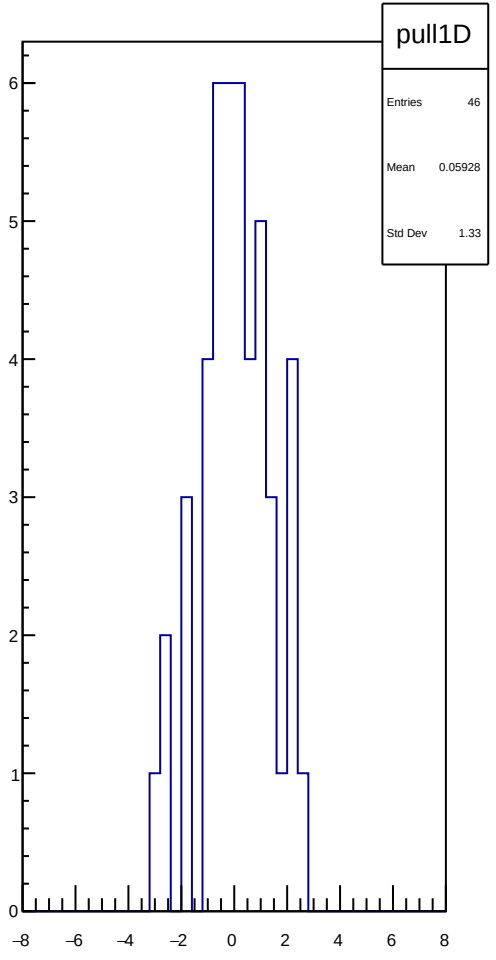

pull1D
Entries 46
Mean 0.005585
Std Dev 0.6853

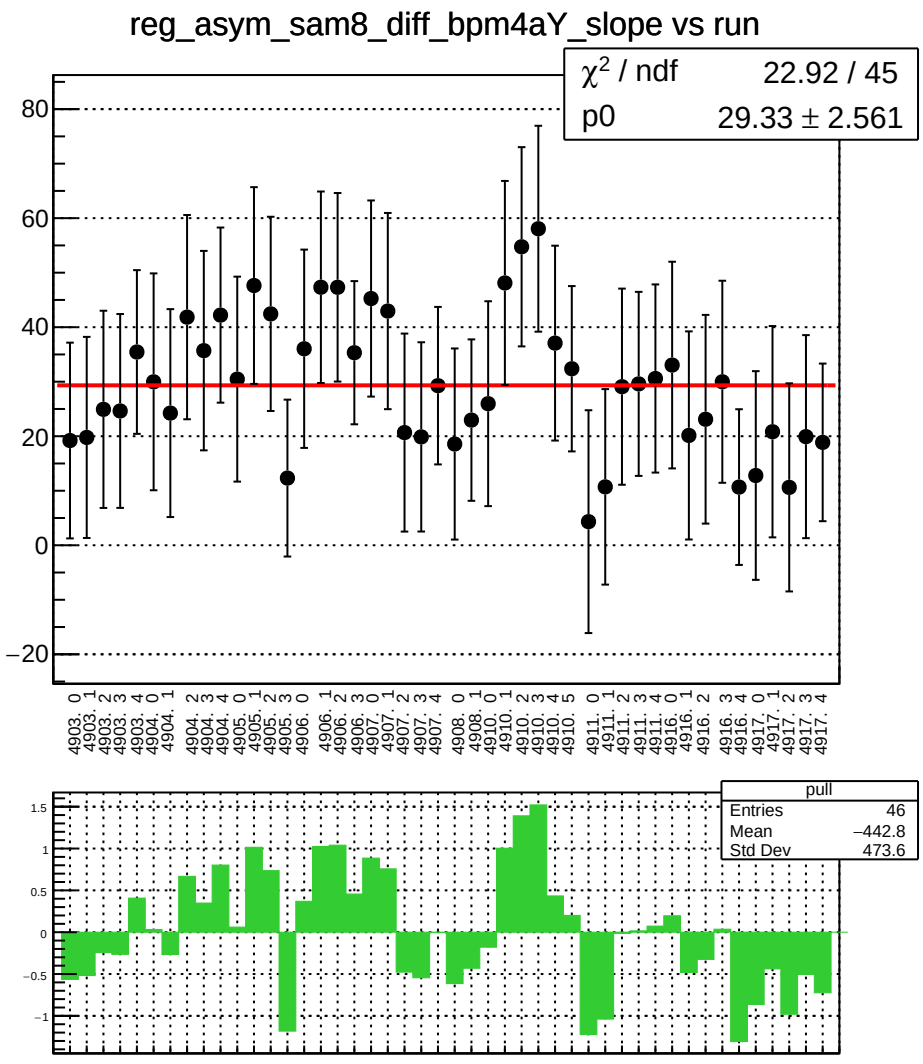

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 27.79 / 45
p0 171.9 ± 0.3817
178
176
174
172
170
168
166
164
162
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 174.4
Std Dev 144.2
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 46
Mean 0.01522
Std Dev 0.7772
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

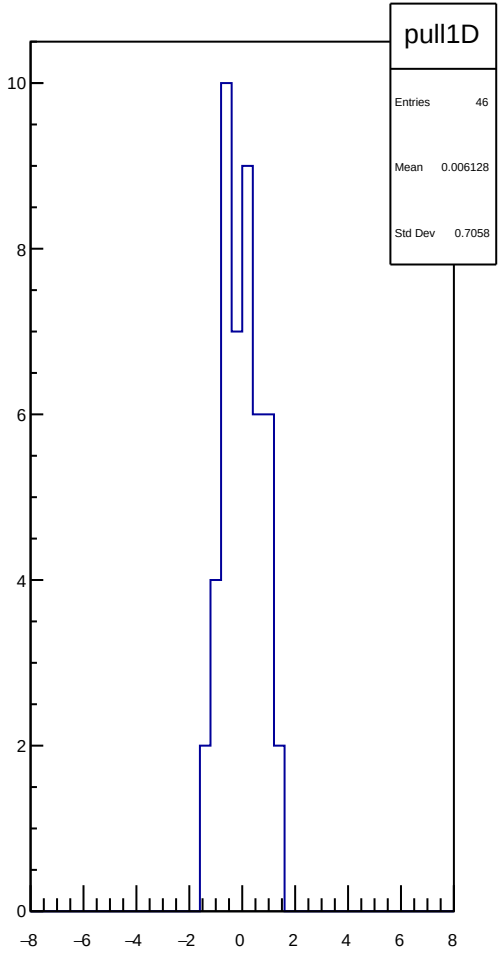

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 10.91 / 45
p0 −80.77 ± 3.007
−40
−60
−80
−100
−120
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 71.24
Std Dev 95.38
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.007459
Std Dev 0.487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

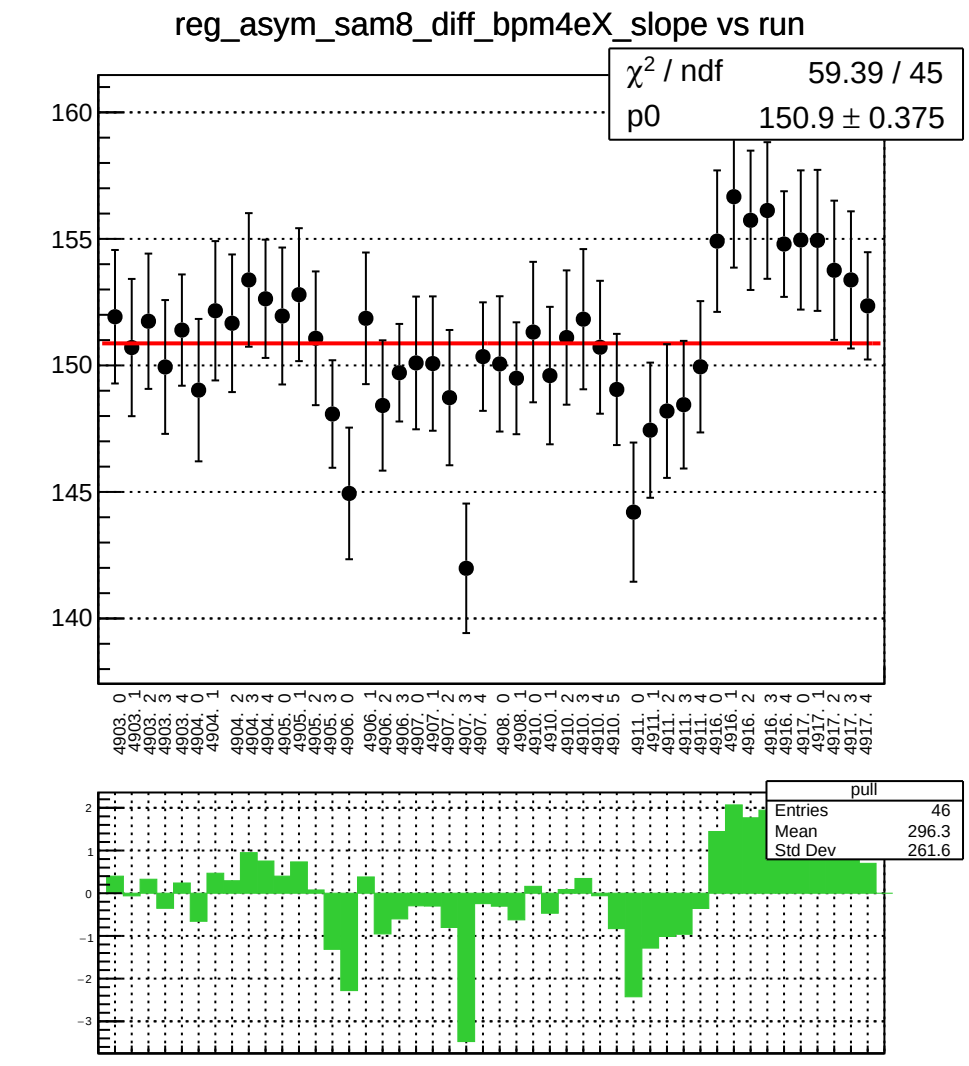

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 8.601 / 45
p0 −5.514 ± 0.5908
pull
Entries 46
Mean 39.86
Std Dev 43.21
pull1D
Entries 46
Mean −0.02064
Std Dev 0.4319

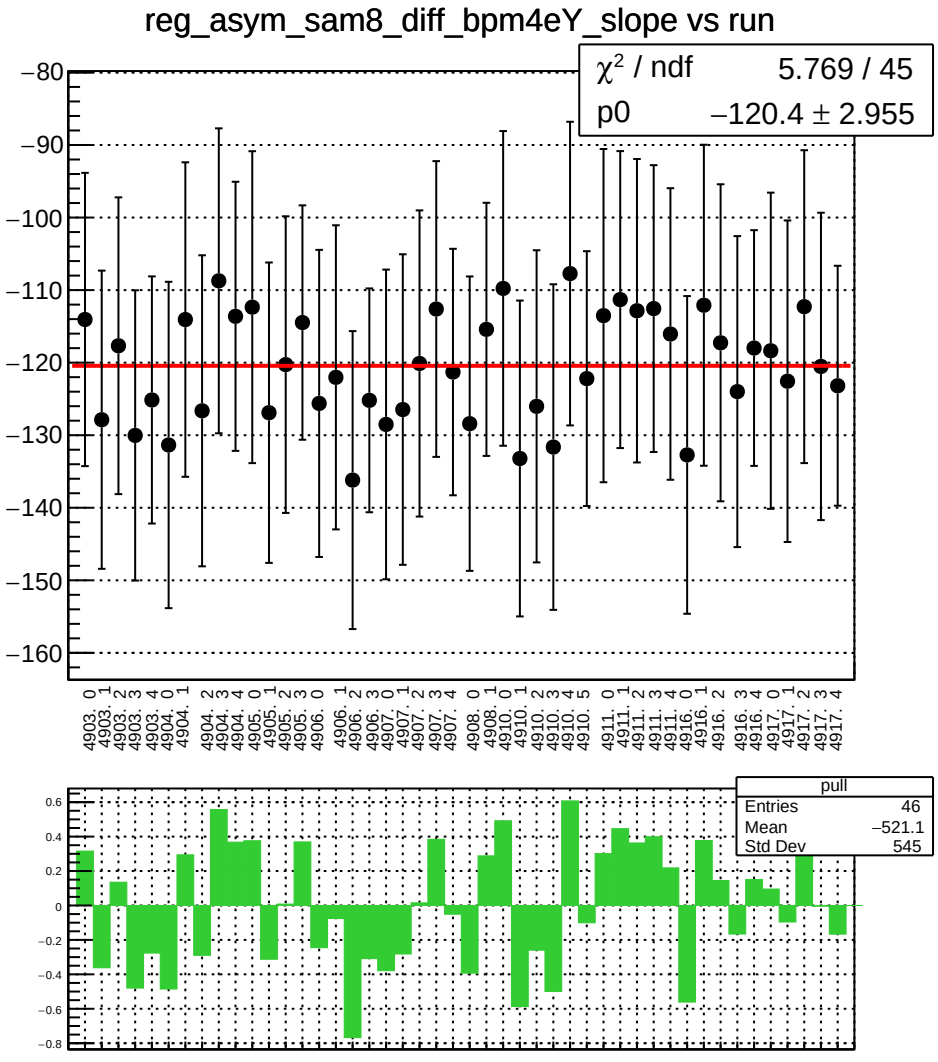

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 81.49 / 45
p0 −102.2 ± 1.838
pull
Entries 46
Mean 65.05
Std Dev 12.03

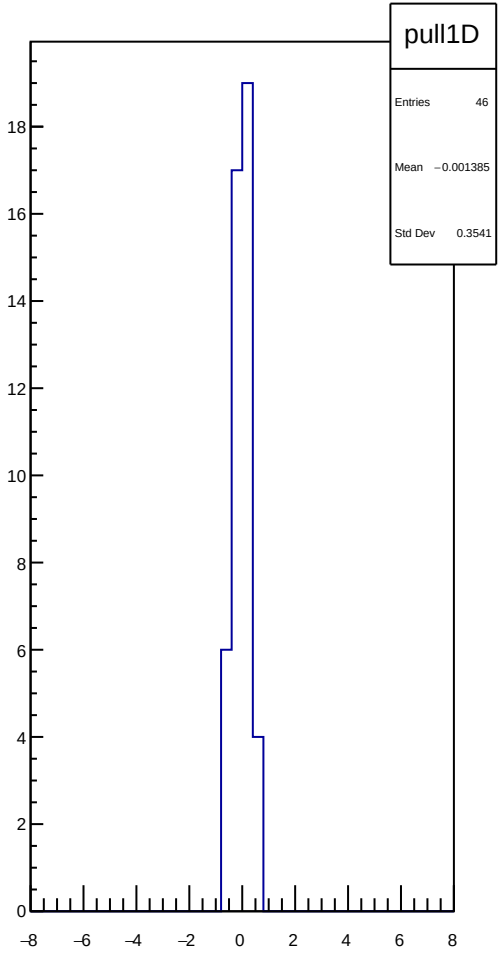

pull1D
Entries 46
Mean 0.05928
Std Dev 1.33

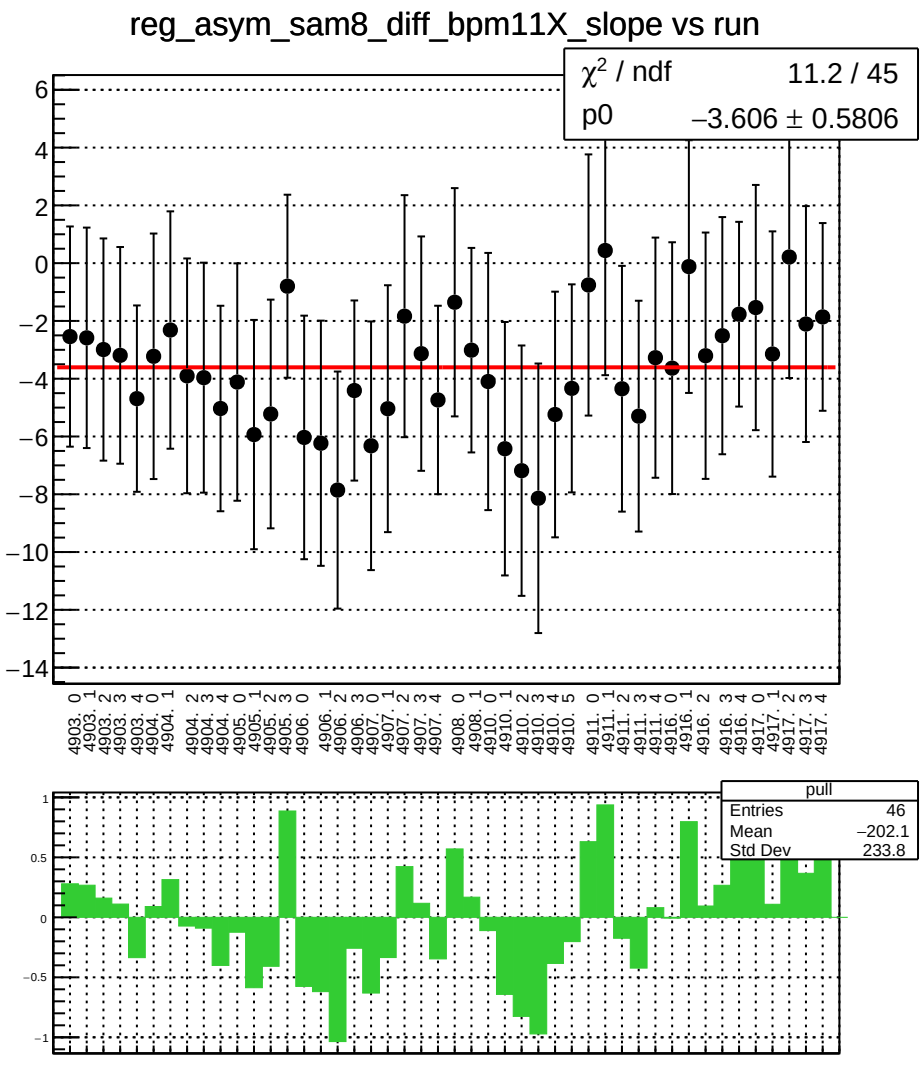

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 22.92 / 45
p0 29.33 ± 2.561
pull
Entries 46
Mean −442.8
Std Dev 473.6

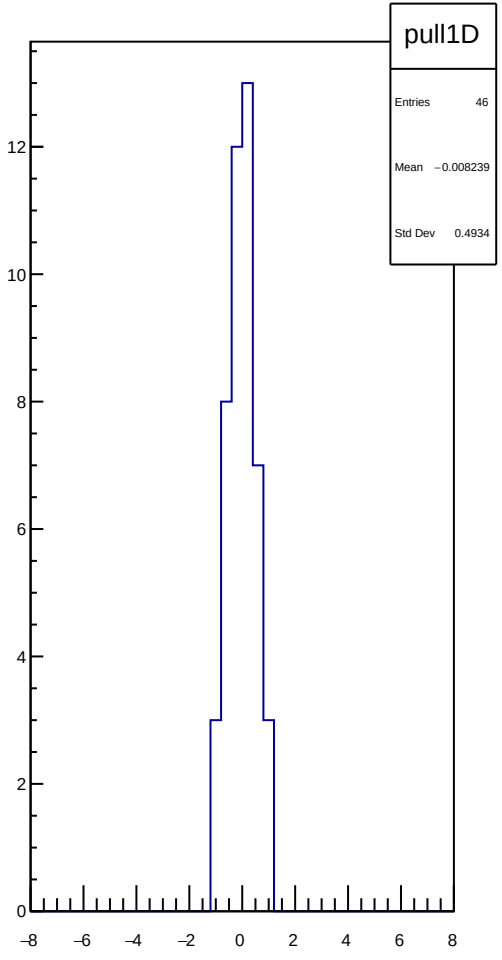

pull1D
Entries 46
Mean 0.006128
Std Dev 0.7058

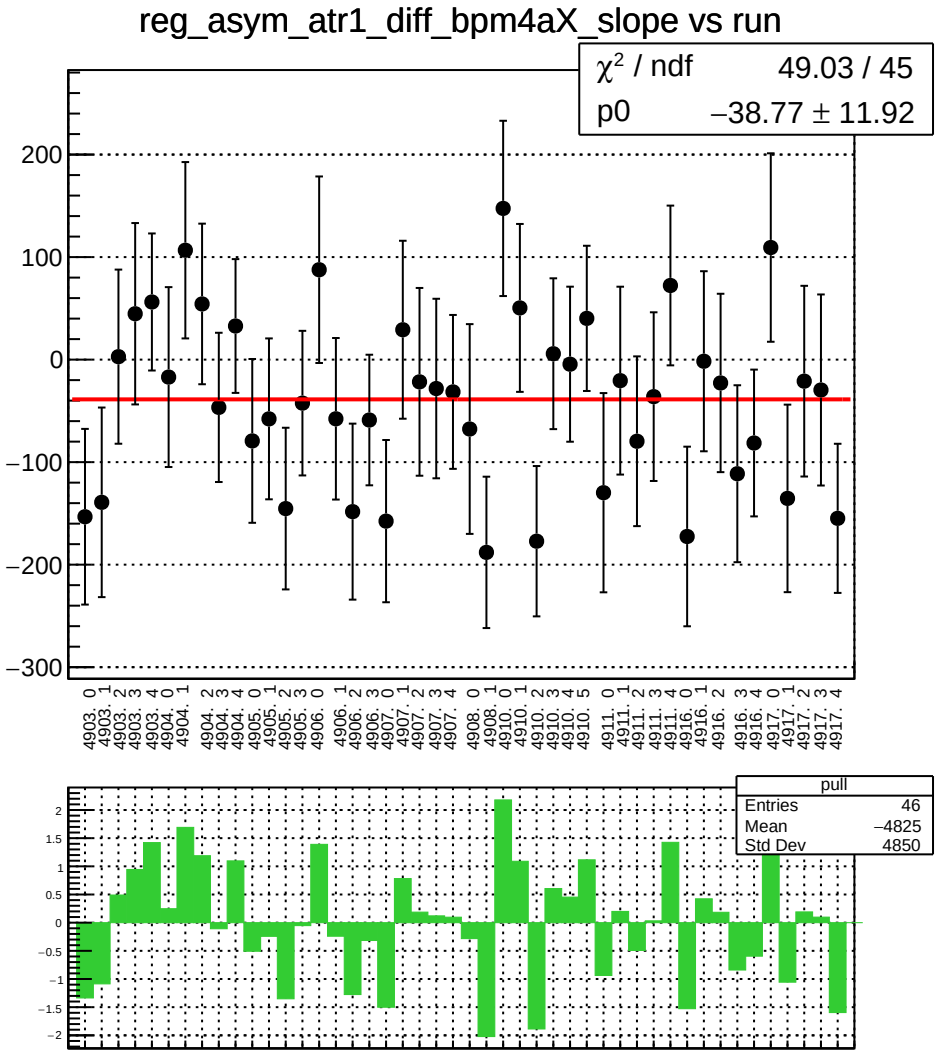

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 59.39 / 45
p0 150.9 ± 0.375
160
155
150
145
140
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 296.3
Std Dev 261.6
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.01485
Std Dev 1.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

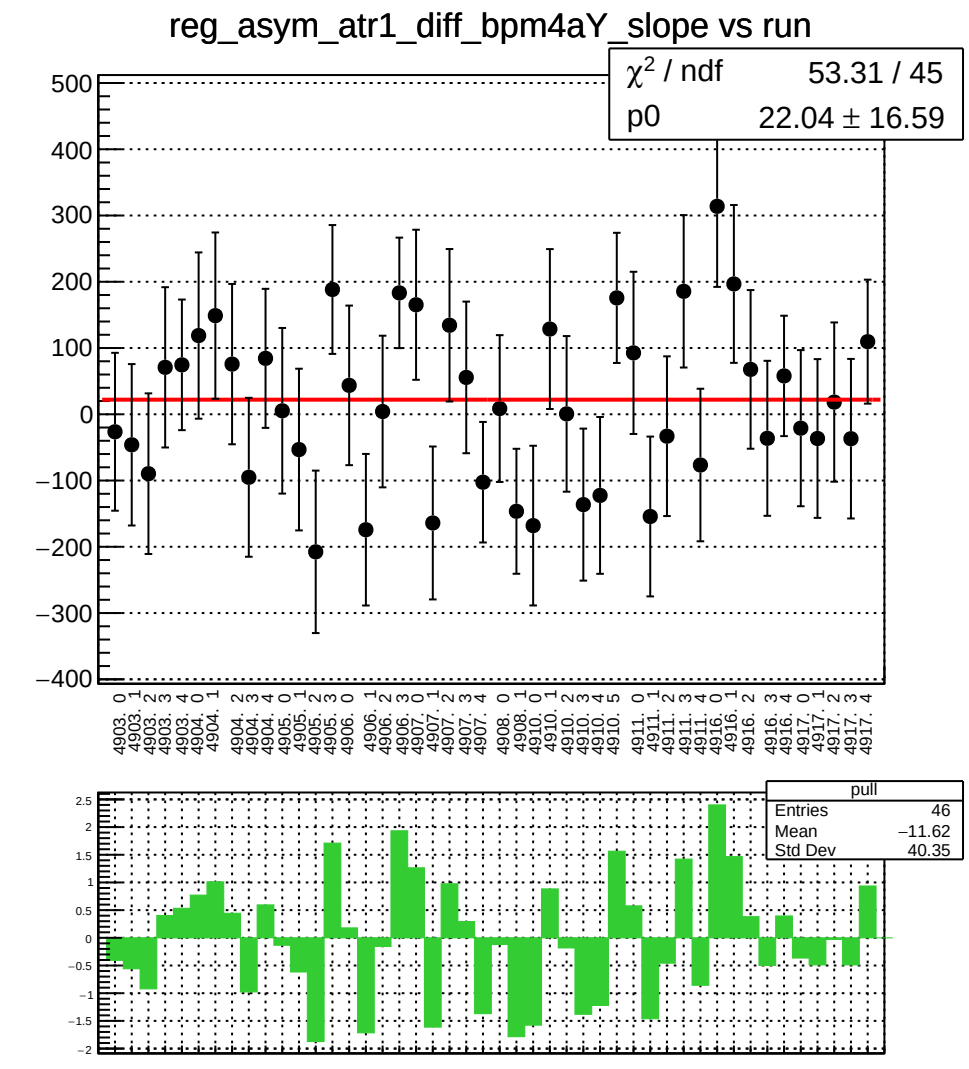

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.769 / 45
p0 −120.4 ± 2.955
pull
Entries 46
Mean −521.1
Std Dev 545

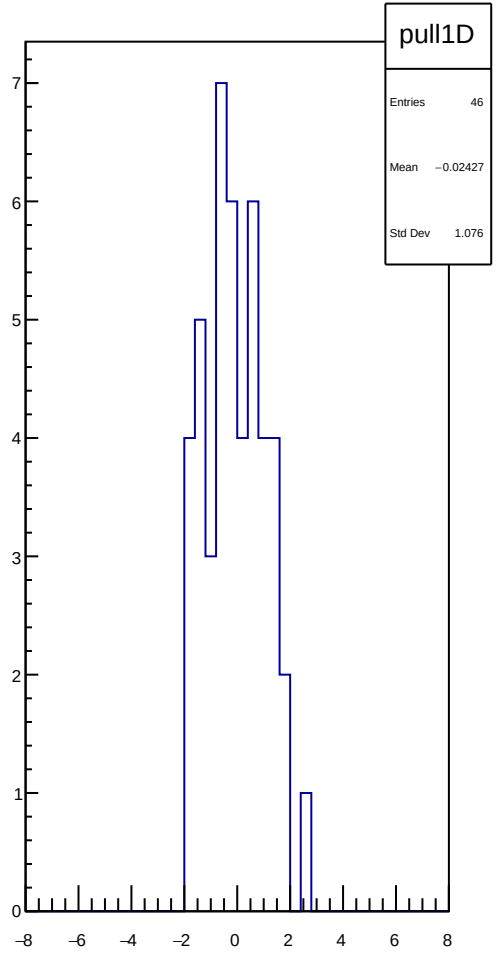

pull1D
Entries 46
Mean −0.001385
Std Dev 0.3541

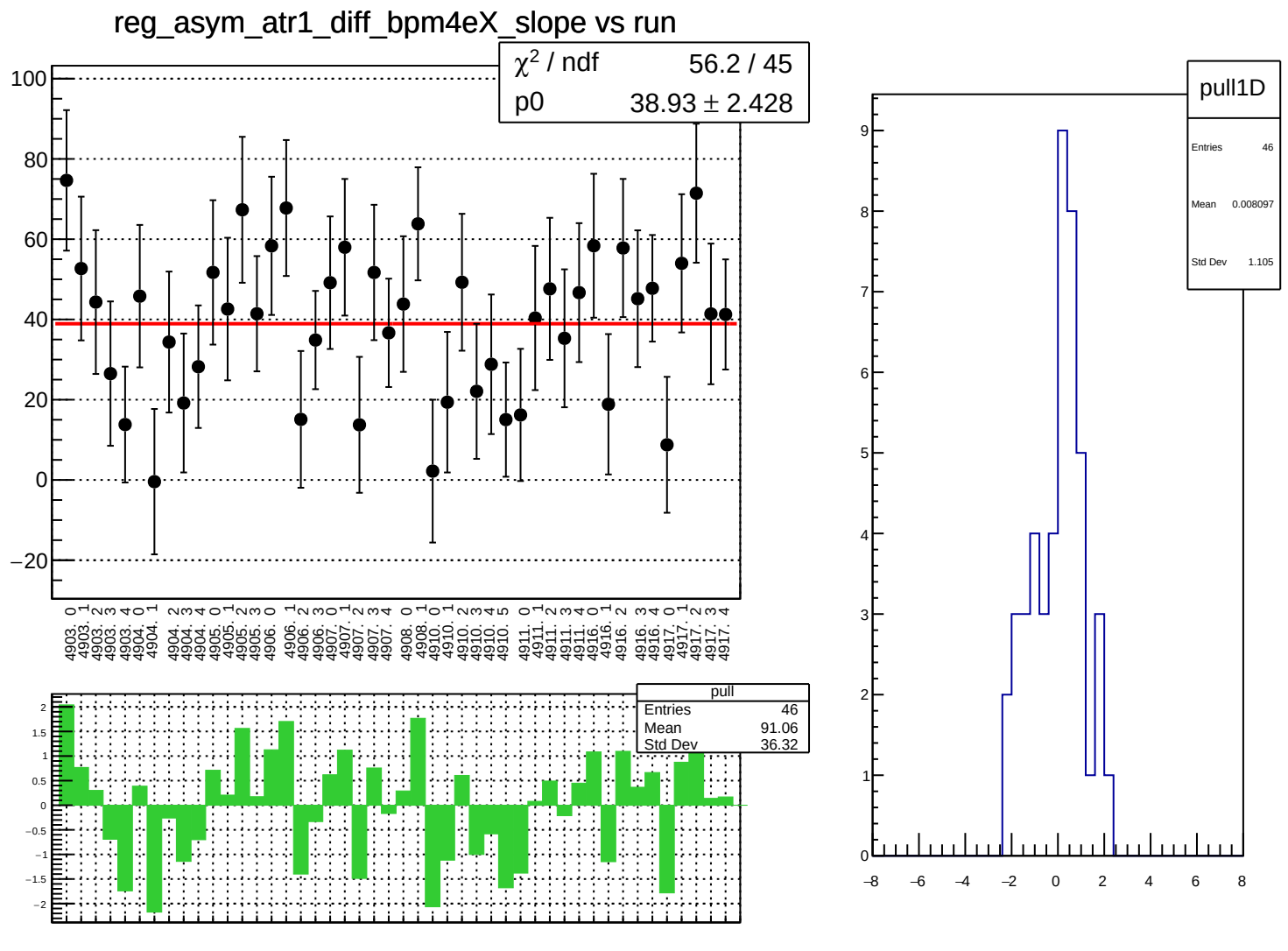

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 11.2 / 45
p0 −3.606 ± 0.5806
pull
Entries 46
Mean −202.1
Std Dev 233.8

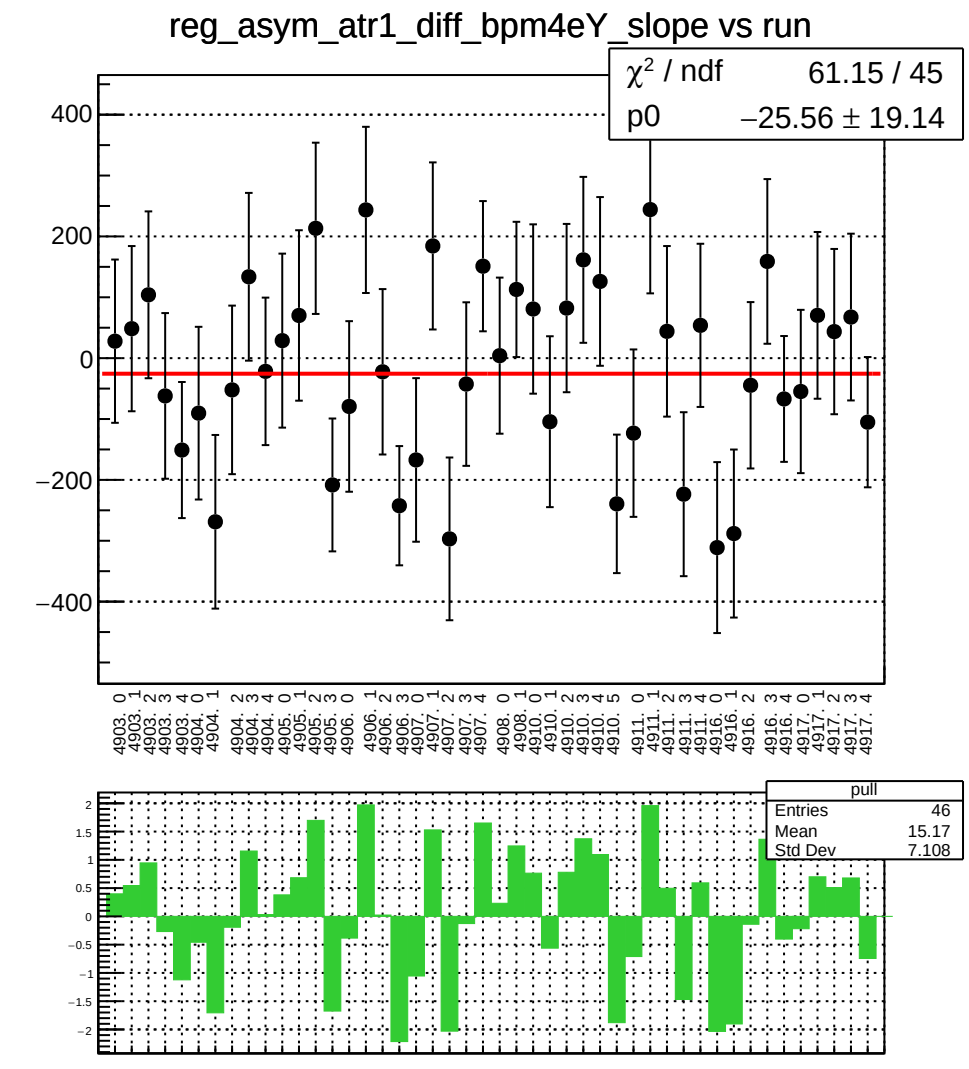

pull1D
Entries 46
Mean −0.008239
Std Dev 0.4934

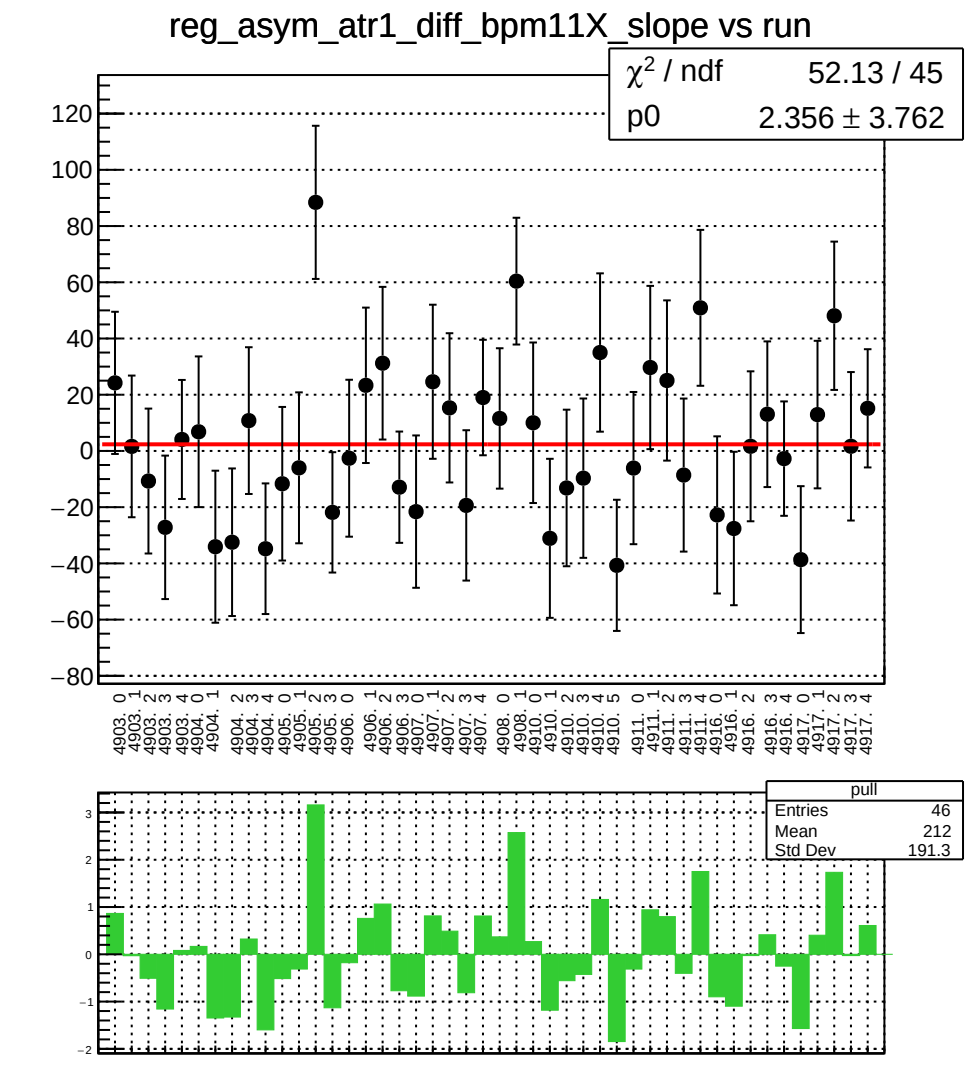

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 49.03 / 45
p0 −38.77 ± 11.92
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −4825
Std Dev 4850
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0003384
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

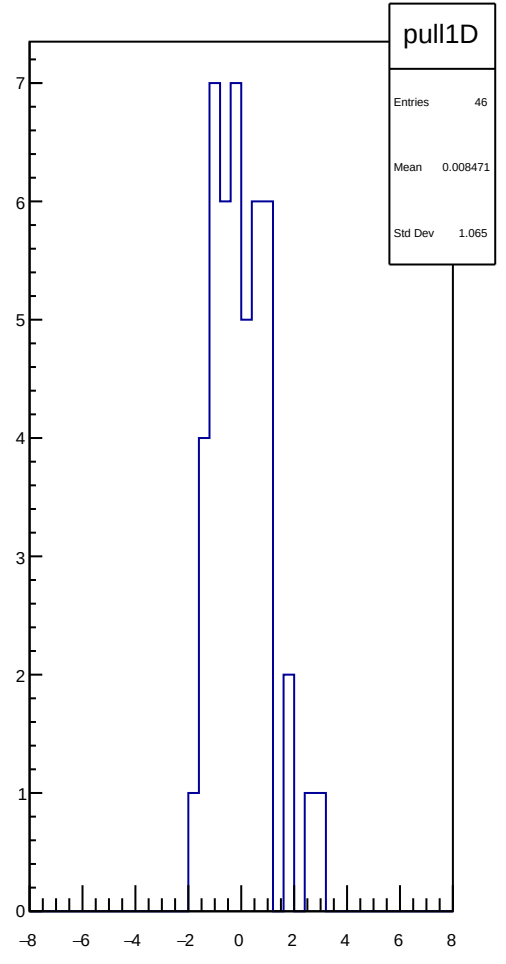

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 53.31 / 45
p0 22.04 ± 16.59
pull
Entries 46
Mean −11.62
Std Dev 40.35

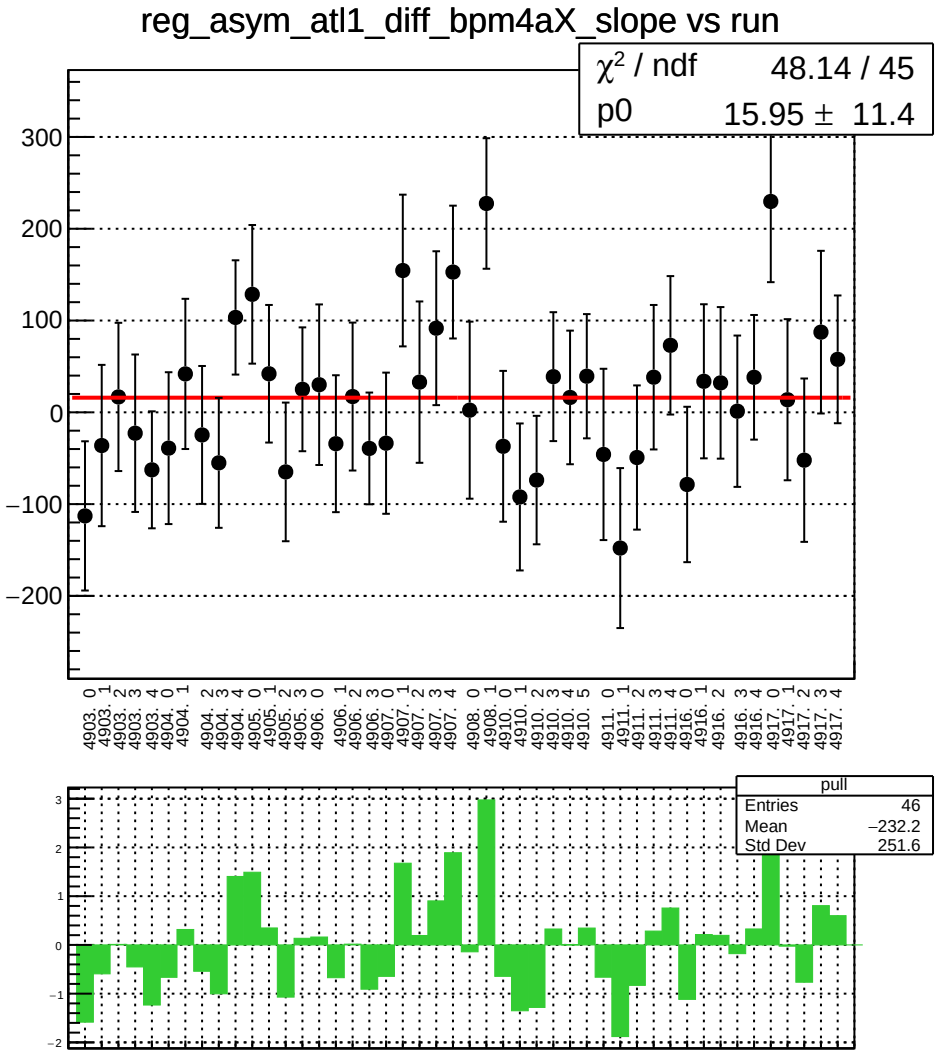

pull1D
Entries 46
Mean −0.02427
Std Dev 1.076

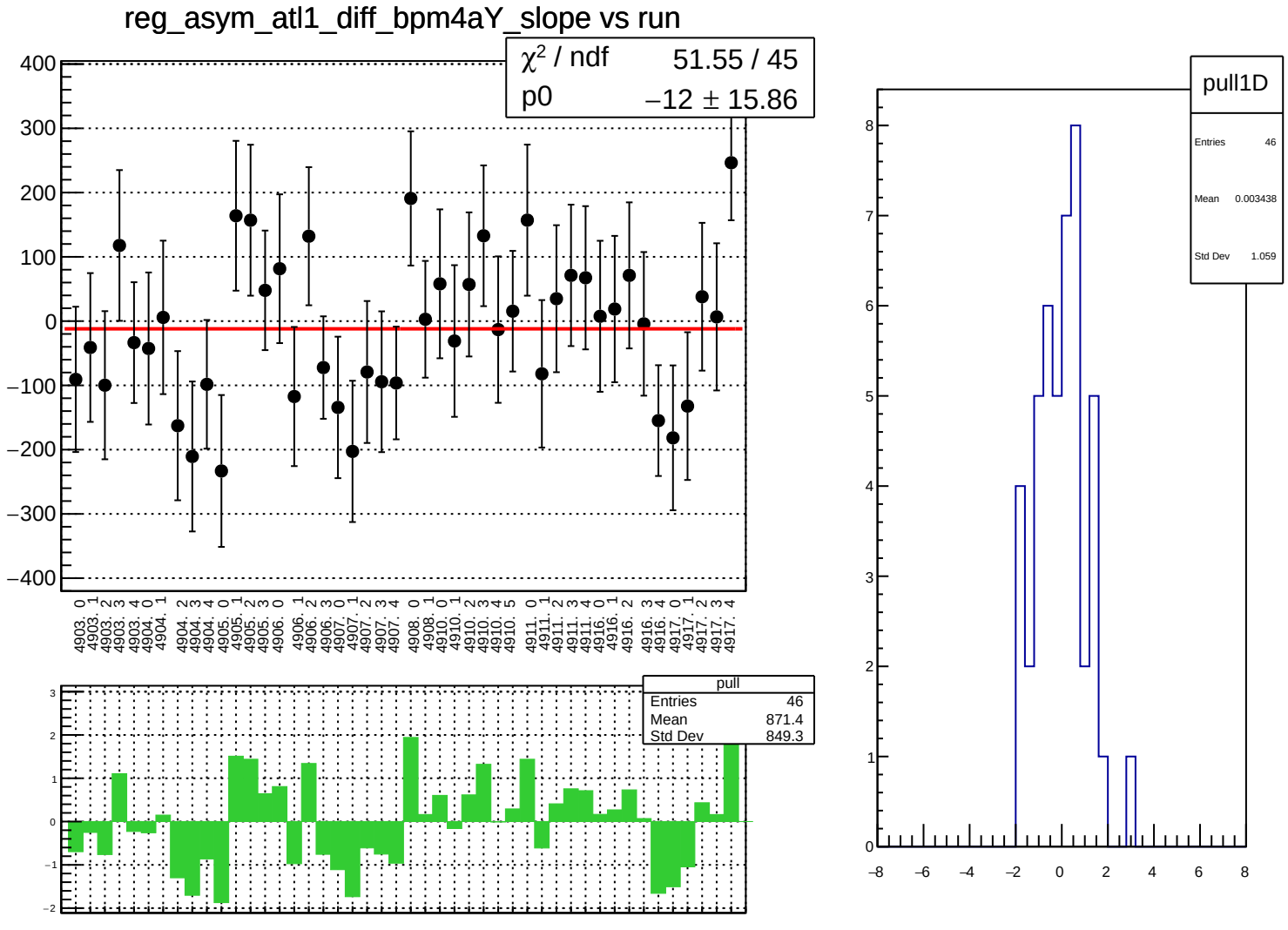

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 56.2 / 45
p0 38.93 ± 2.428
pull
Entries 46
Mean 91.06
Std Dev 36.32
pull1D
Entries 46
Mean 0.008097
Std Dev 1.105

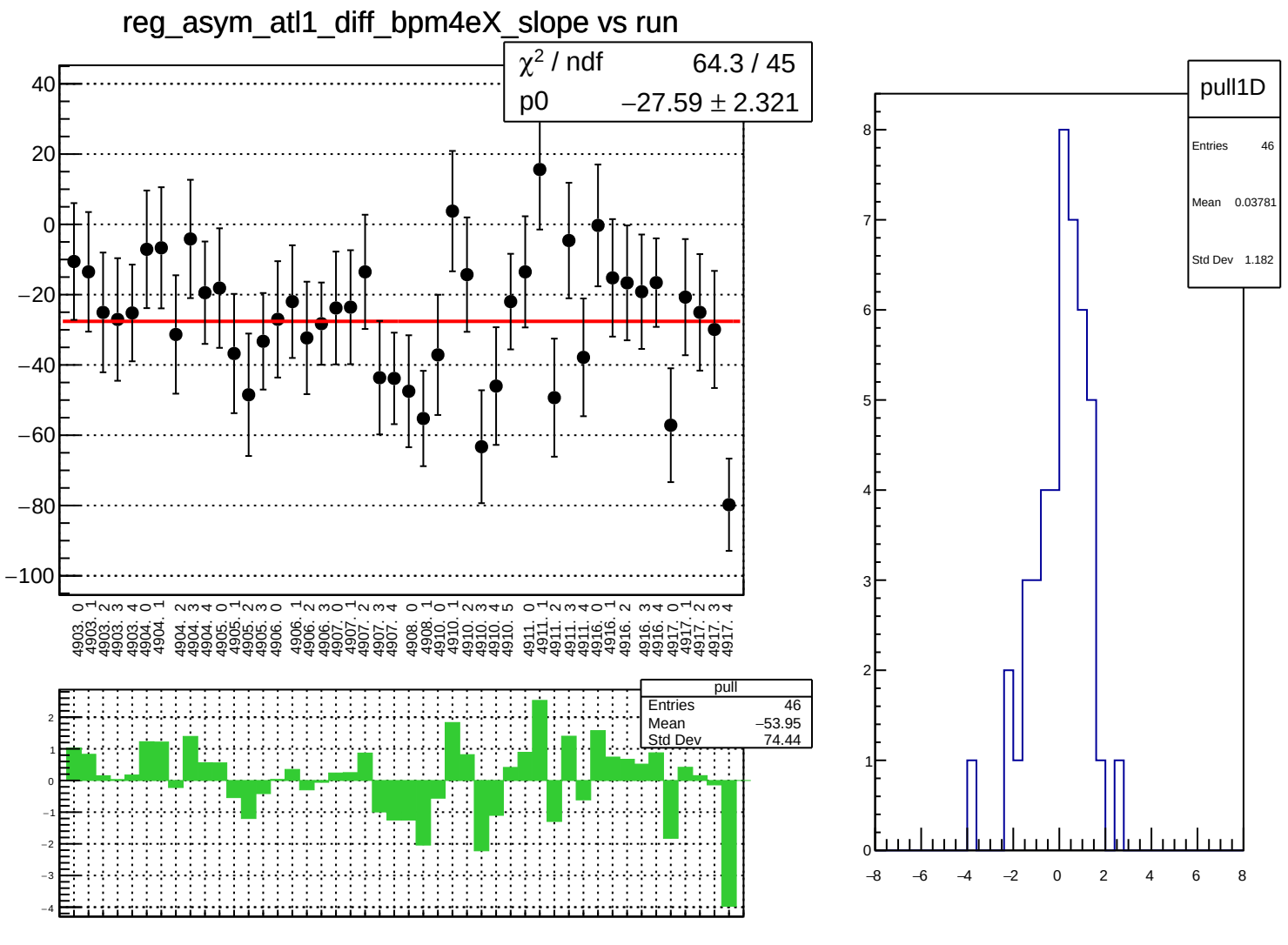

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 61.15 / 45
p0 −25.56 ± 19.14
400
200
0
−200
−400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 15.17
Std Dev 7.108
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03297
Std Dev 1.153
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

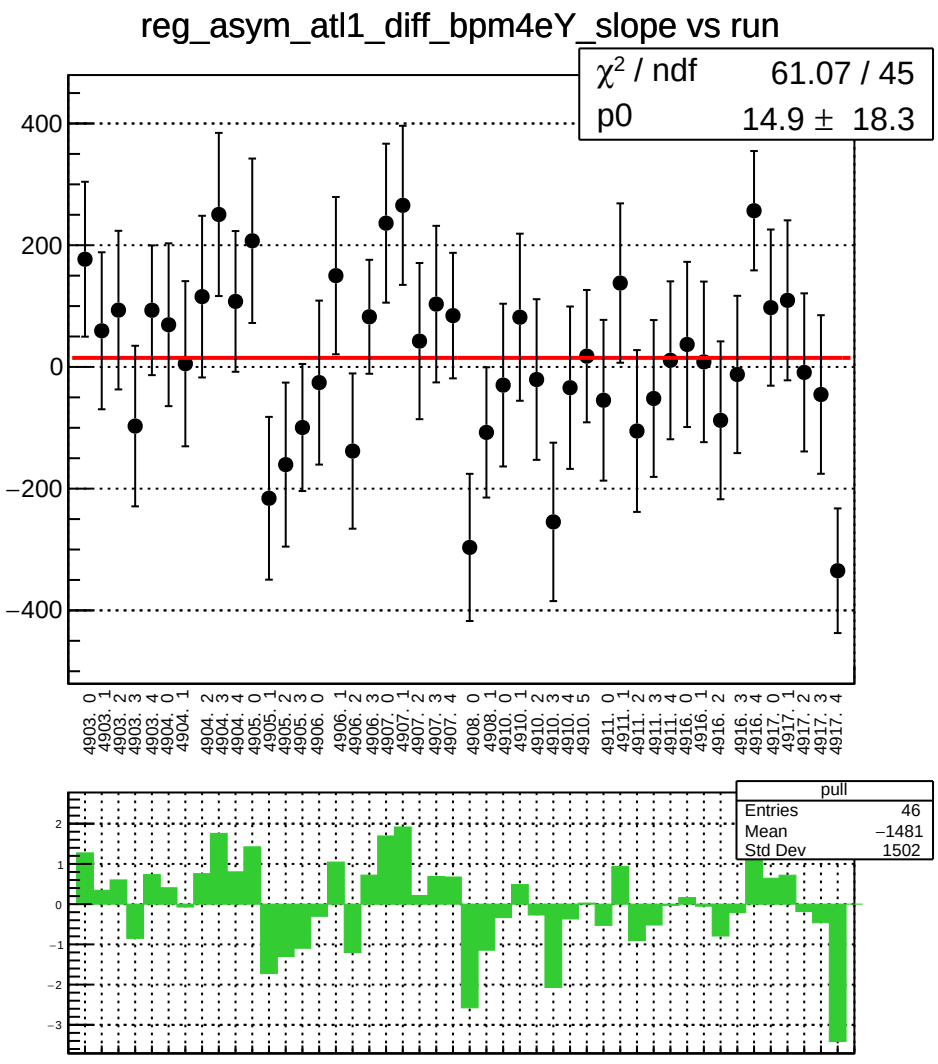

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 52.13 / 45
p0 2.356 ± 3.762
pull
Entries 46
Mean 212
Std Dev 191.3

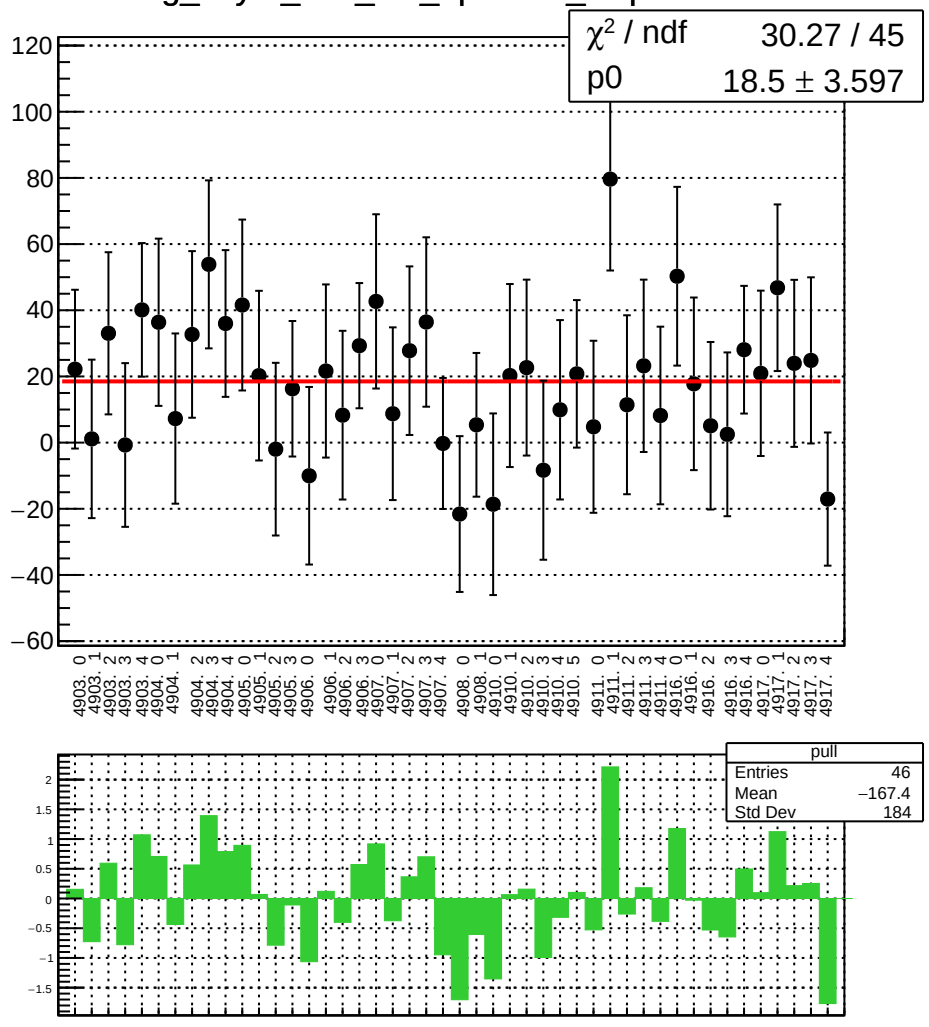

pull1D
Entries 46
Mean 0.008471
Std Dev 1.065

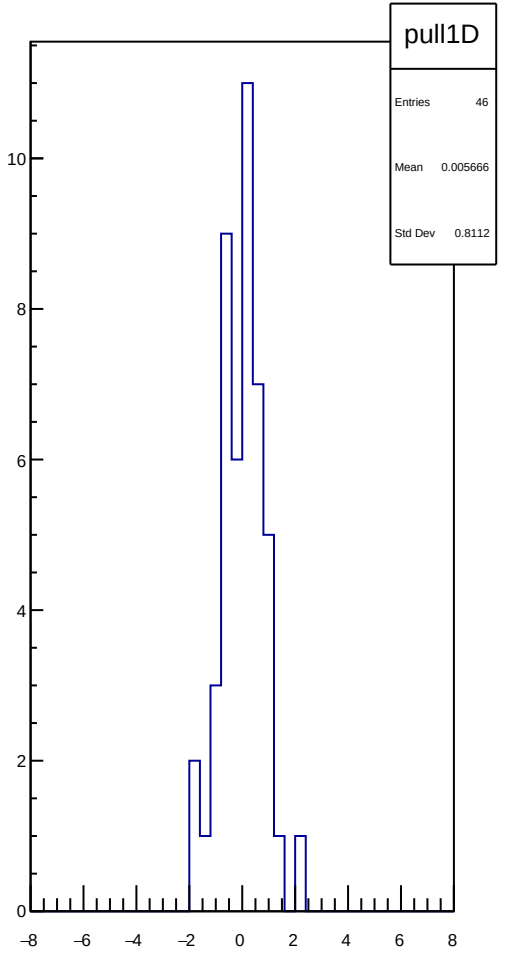

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 48.14 / 45
p0 15.95 ± 11.4
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −232.2
Std Dev 251.6
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009452
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

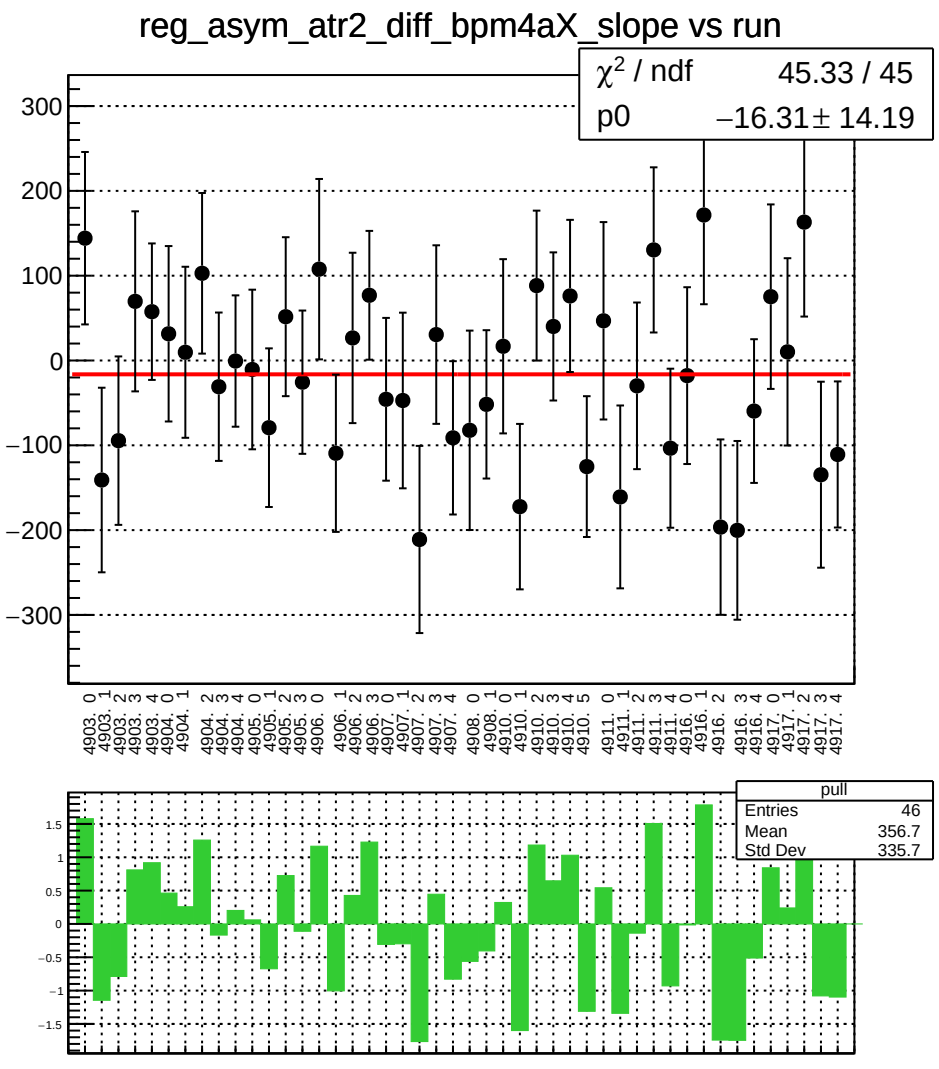

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 51.55 / 45
p0 −12 ± 15.86
pull
Entries 46
Mean 871.4
Std Dev 849.3
pull1D
Entries 46
Mean 0.003438
Std Dev 1.059

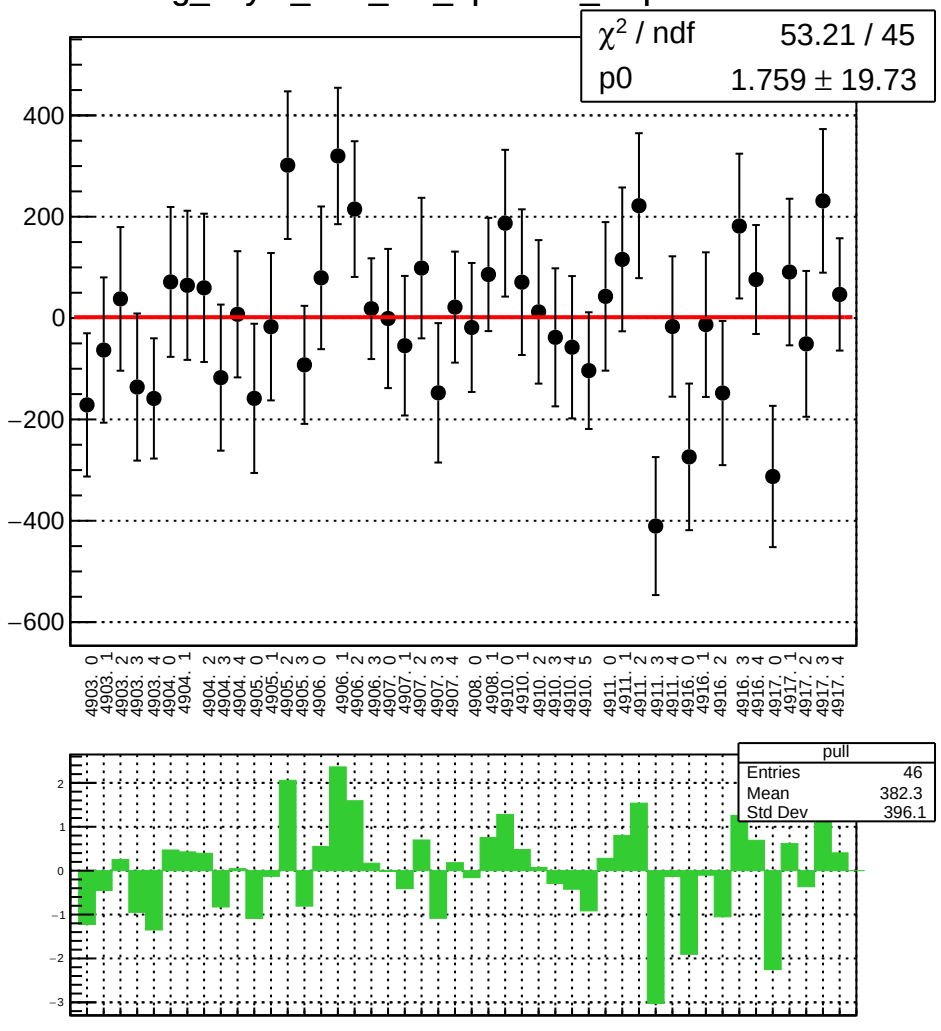

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 64.3 / 45
p0 −27.59 ± 2.321
pull
Entries 46
Mean −53.95
Std Dev 74.44
pull1D
Entries 46
Mean 0.03781
Std Dev 1.182

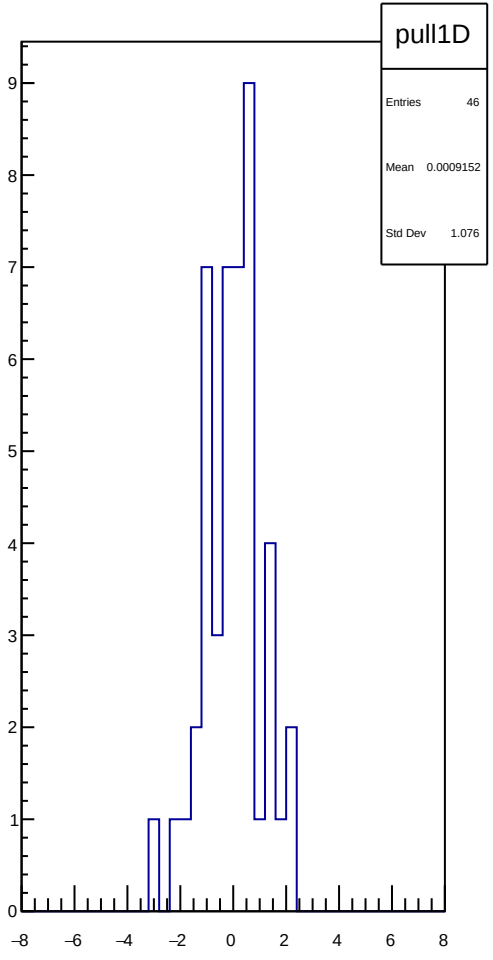

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 61.07 / 45
p0 14.9 ± 18.3
400
200
0
−200
−400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1481
Std Dev 1502
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.002242
Std Dev 1.152
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

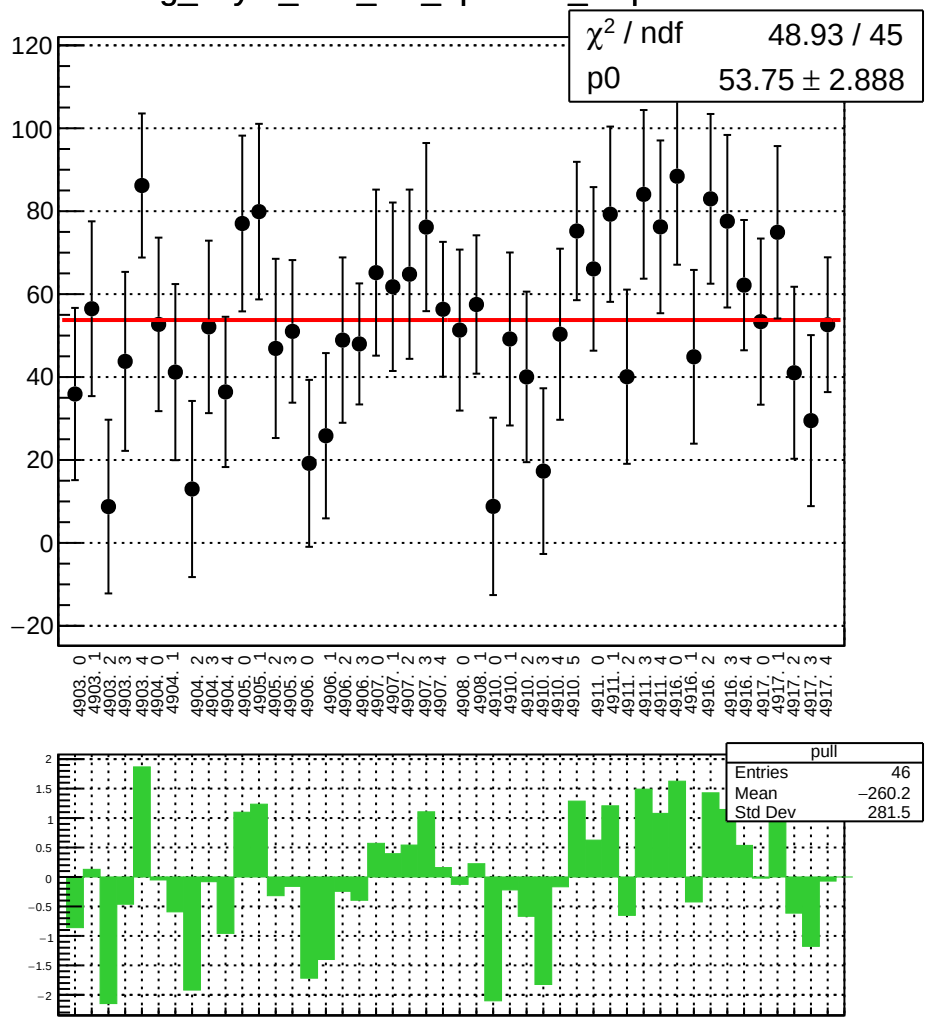

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 30.27 / 45
p0 18.5 ± 3.597
pull
Entries 46
Mean −167.4
Std Dev 184

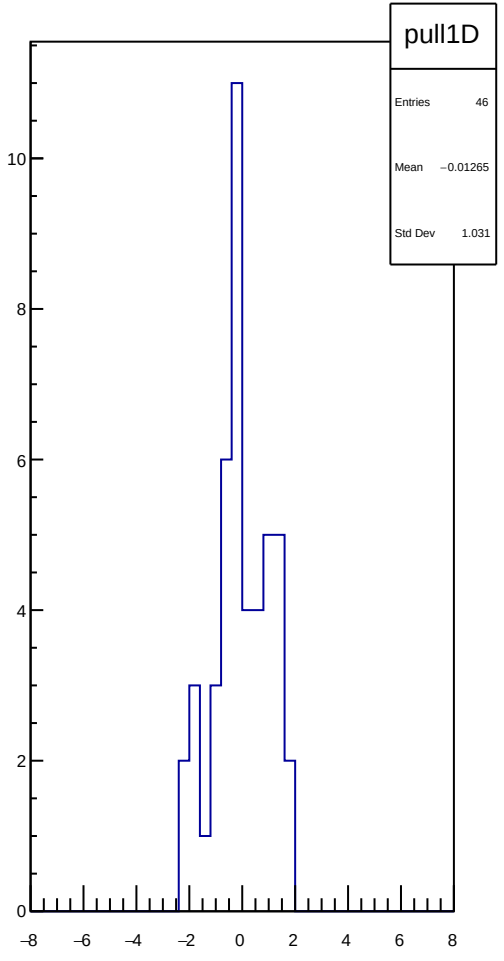

pull1D
Entries 46
Mean 0.005666
Std Dev 0.8112

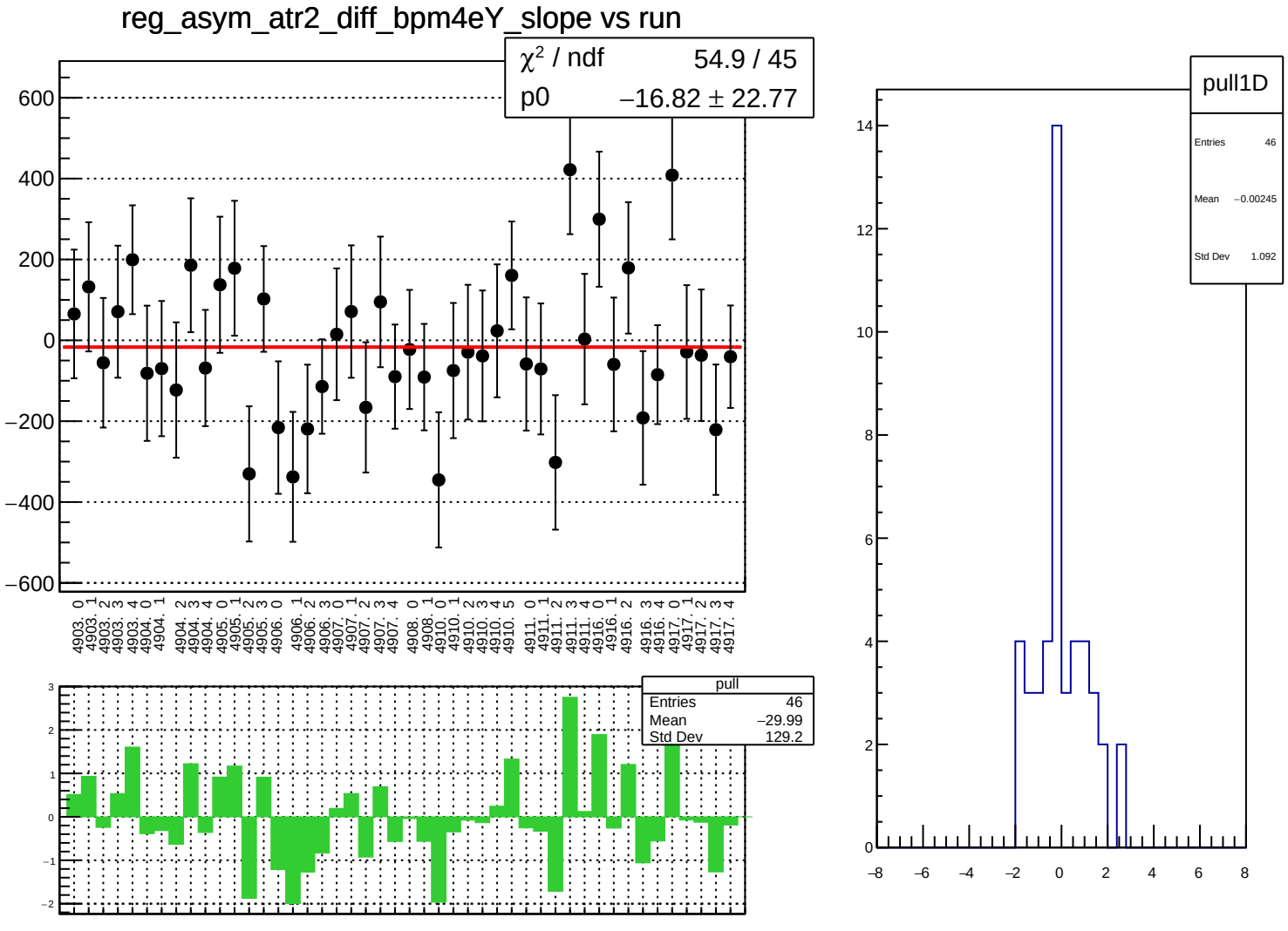

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 45.33 / 45
p0 −16.31 ± 14.19
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 356.7
Std Dev 335.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.00665
Std Dev 0.9927
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

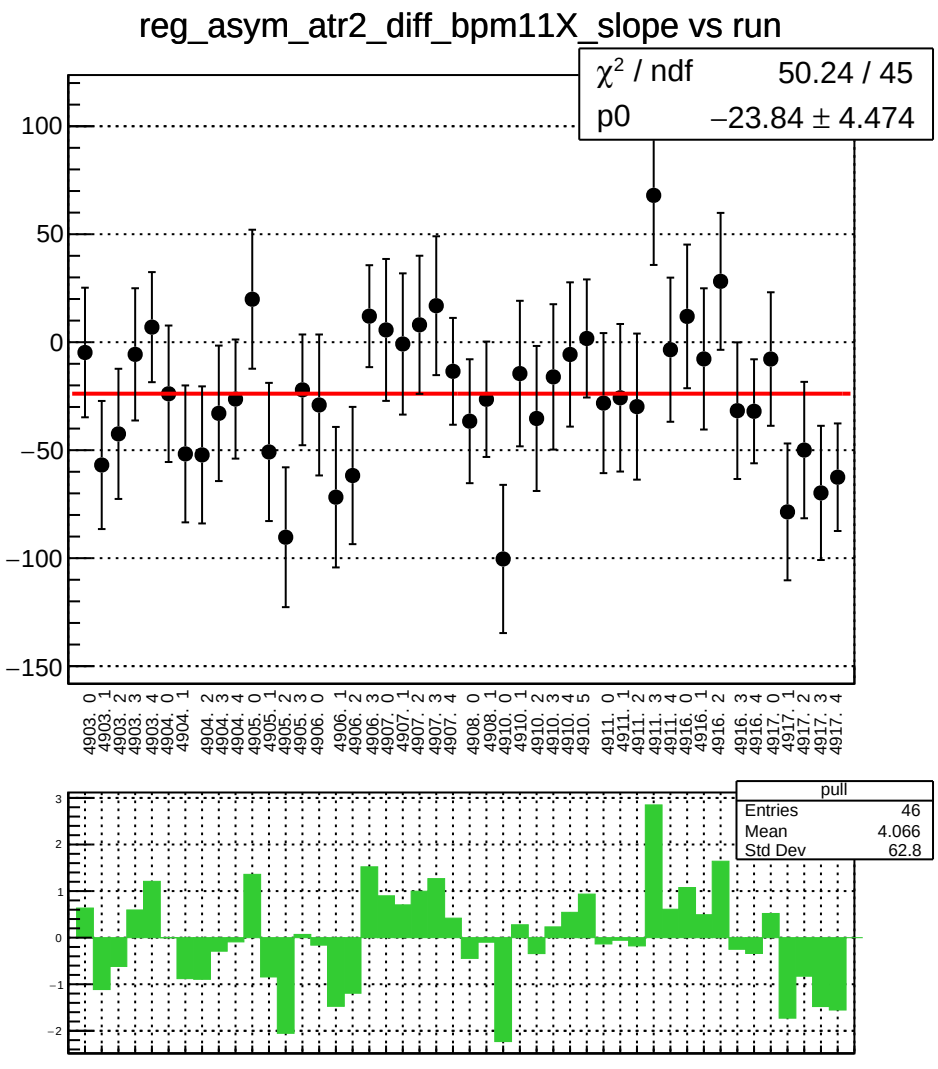

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 53.21 / 45
p0 1.759 ± 19.73
400
200
0
−200
−400
−600
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 382.3
Std Dev 396.1
2
1
0
−1
−2
−3

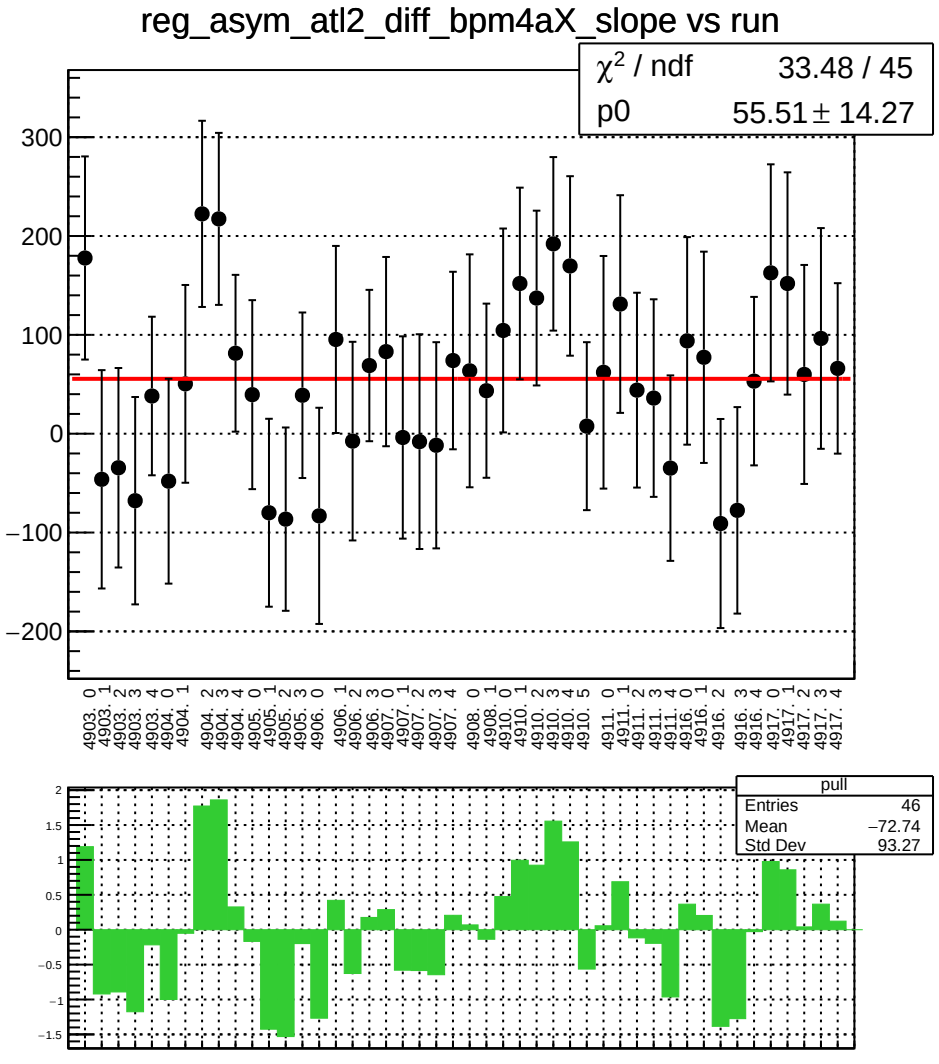

pull1D
Entries 46
Mean 0.0009152
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

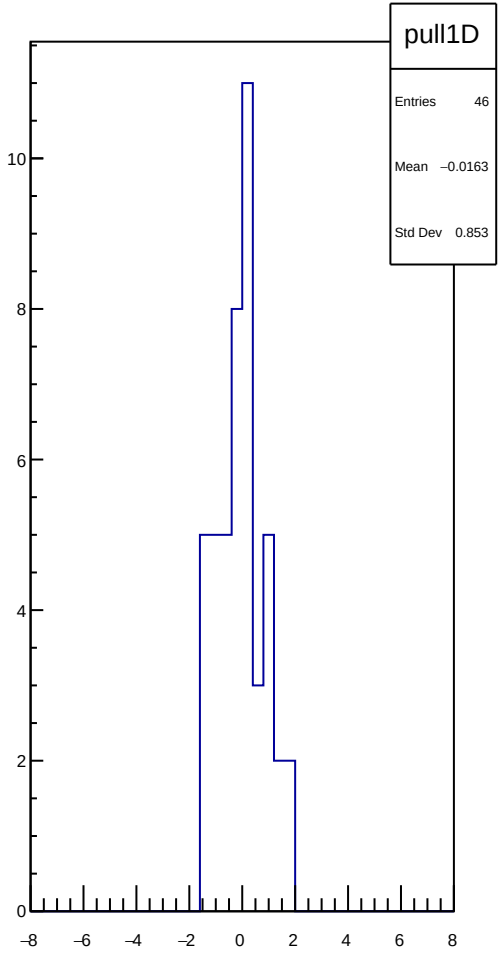

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 48.93 / 45
p0 53.75 ± 2.888
pull
Entries 46
Mean −260.2
Std Dev 281.5

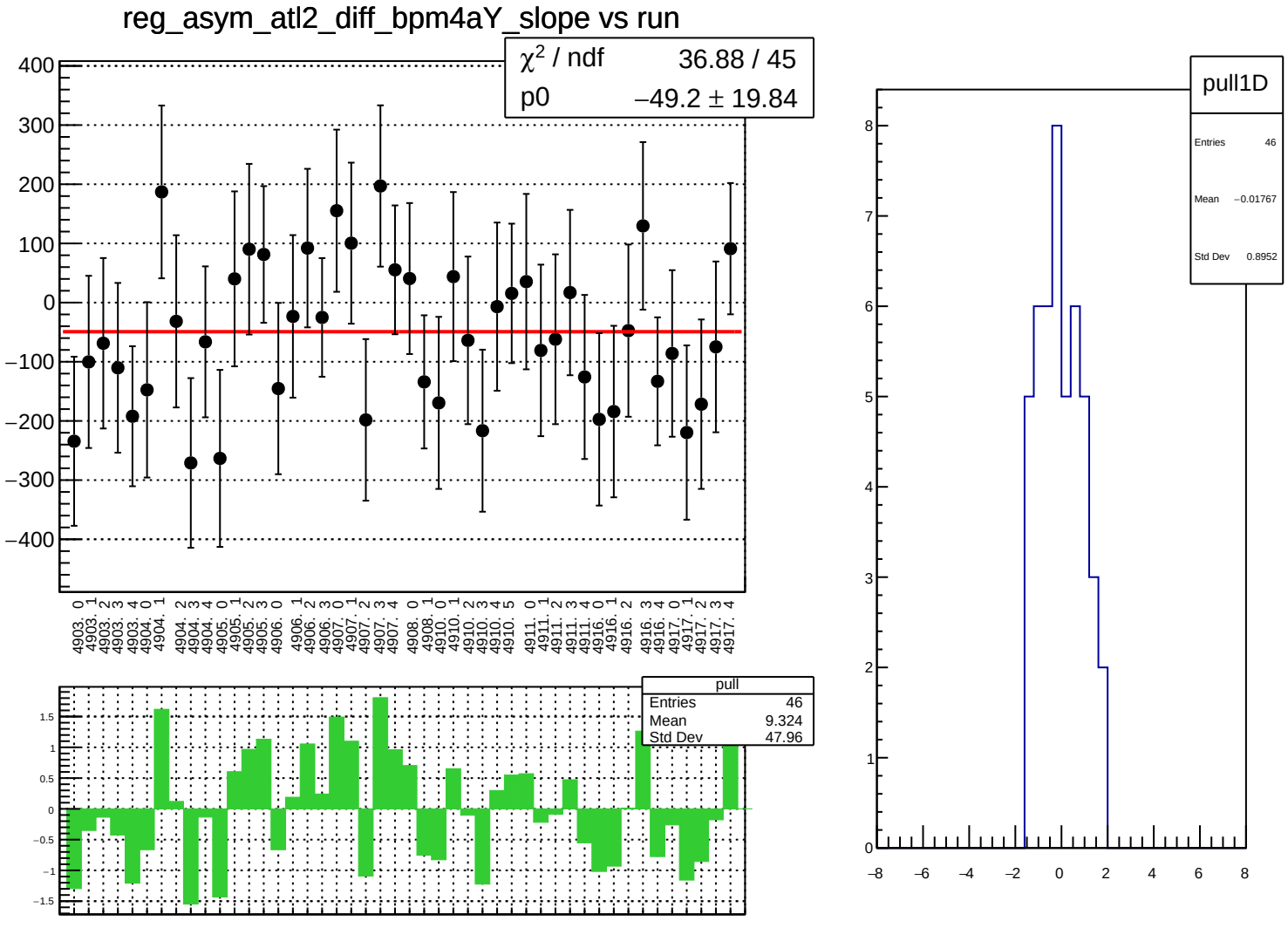

pull1D
Entries 46
Mean −0.01265
Std Dev 1.031

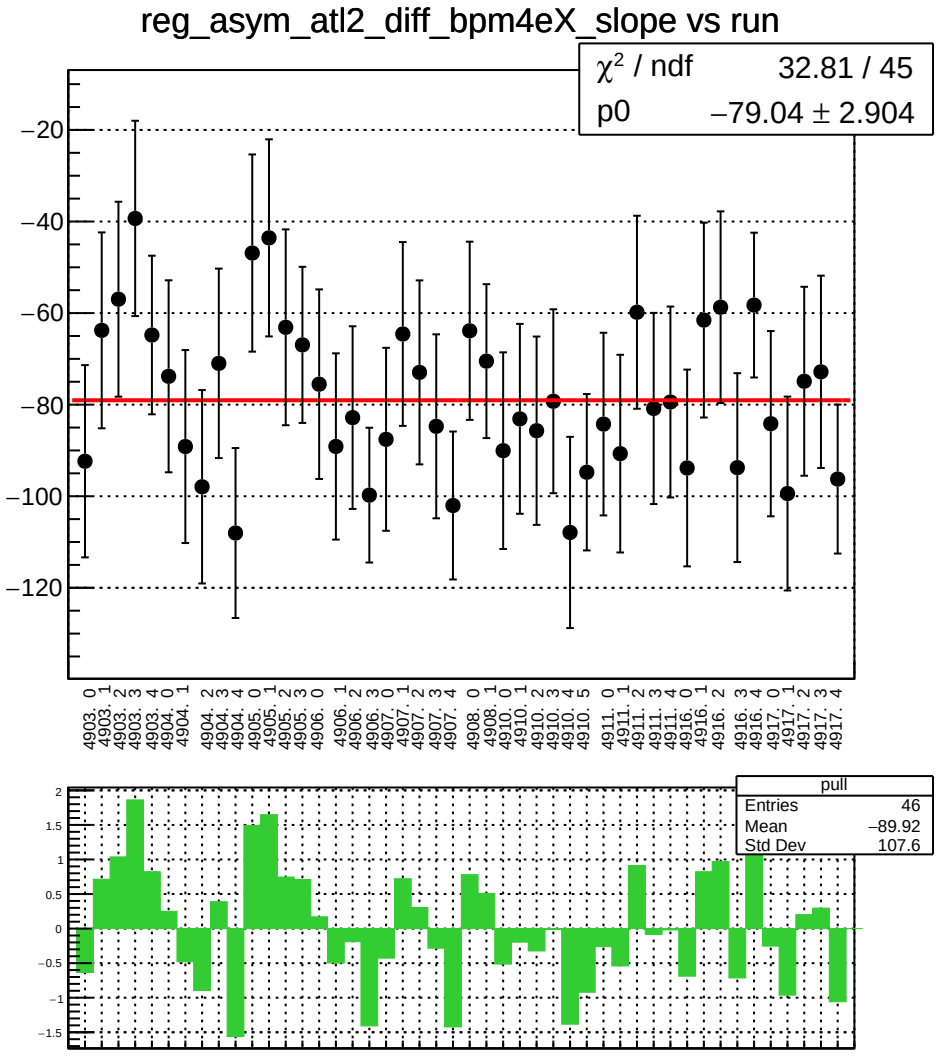

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 54.9 / 45
p0 −16.82 ± 22.77
pull
Entries 46
Mean −29.99
Std Dev 129.2
pull1D
Entries 46
Mean −0.00245
Std Dev 1.092

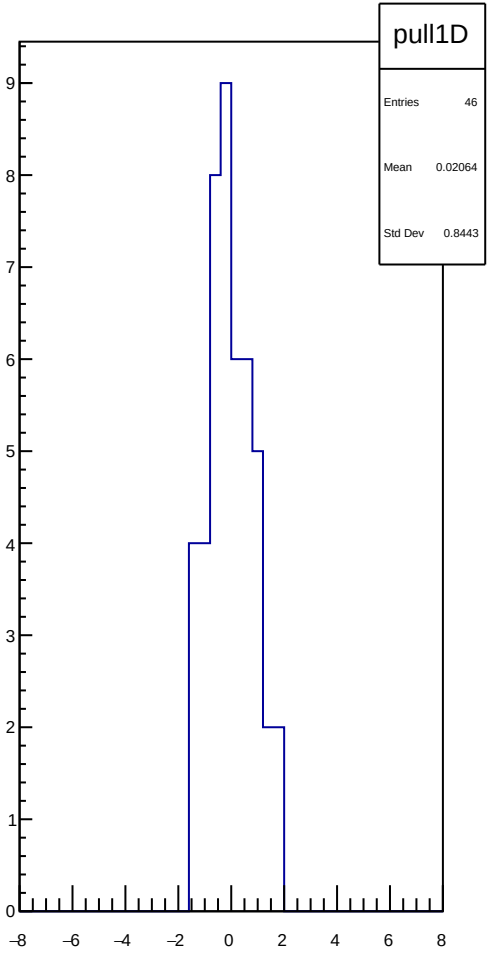

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 50.24 / 45
p0 −23.84 ± 4.474
100
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 4.066
Std Dev 62.8
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009088
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

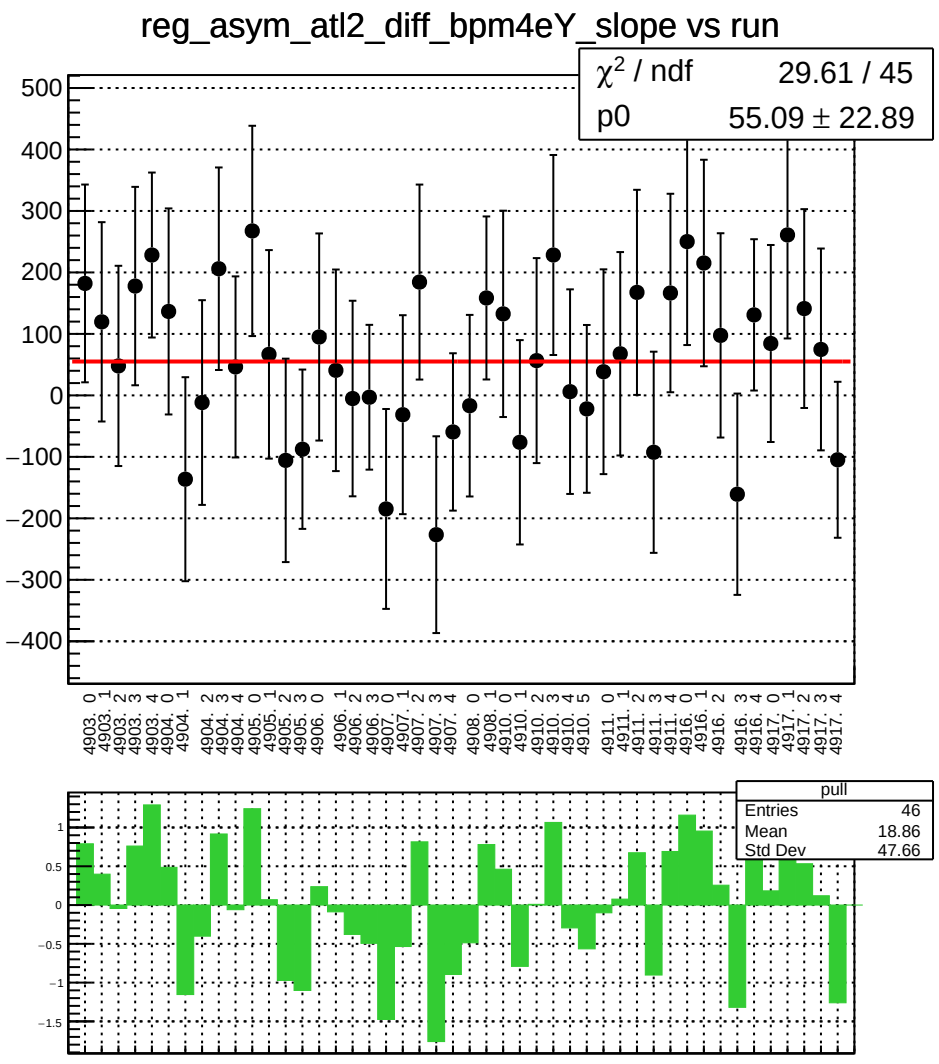

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 33.48 / 45
p0 55.51 ± 14.27
pull
Entries 46
Mean −72.74
Std Dev 93.27

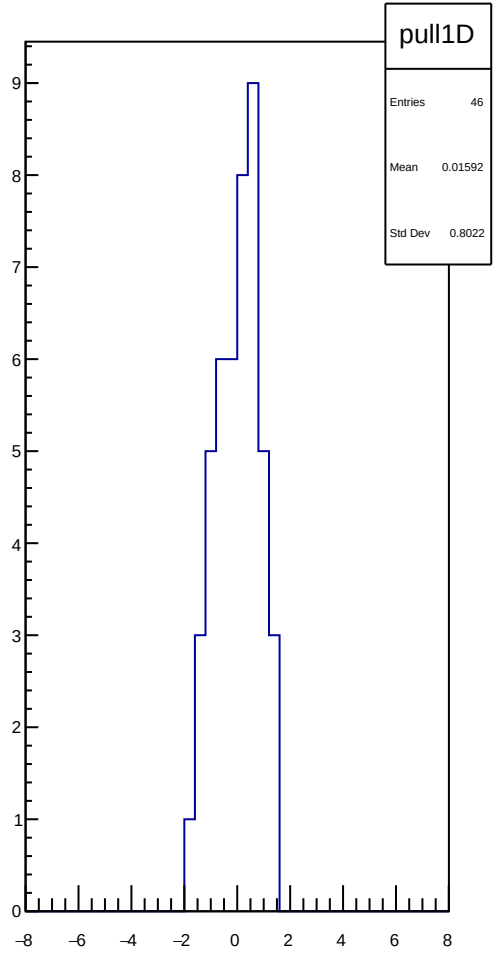

pull1D
Entries 46
Mean −0.0163
Std Dev 0.853

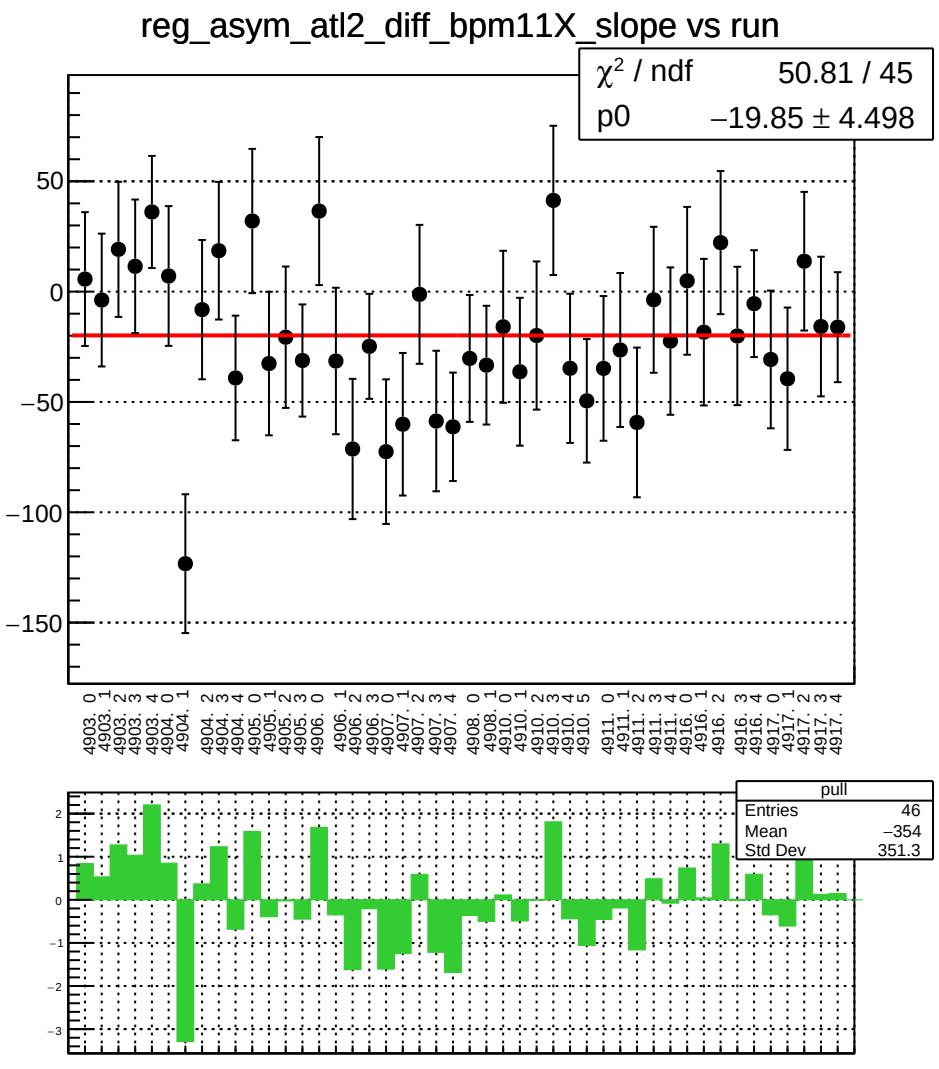

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 36.88 / 45
p0 −49.2 ± 19.84
pull
Entries 46
Mean 9.324
Std Dev 47.96
pull1D
Entries 46
Mean −0.01767
Std Dev 0.8952

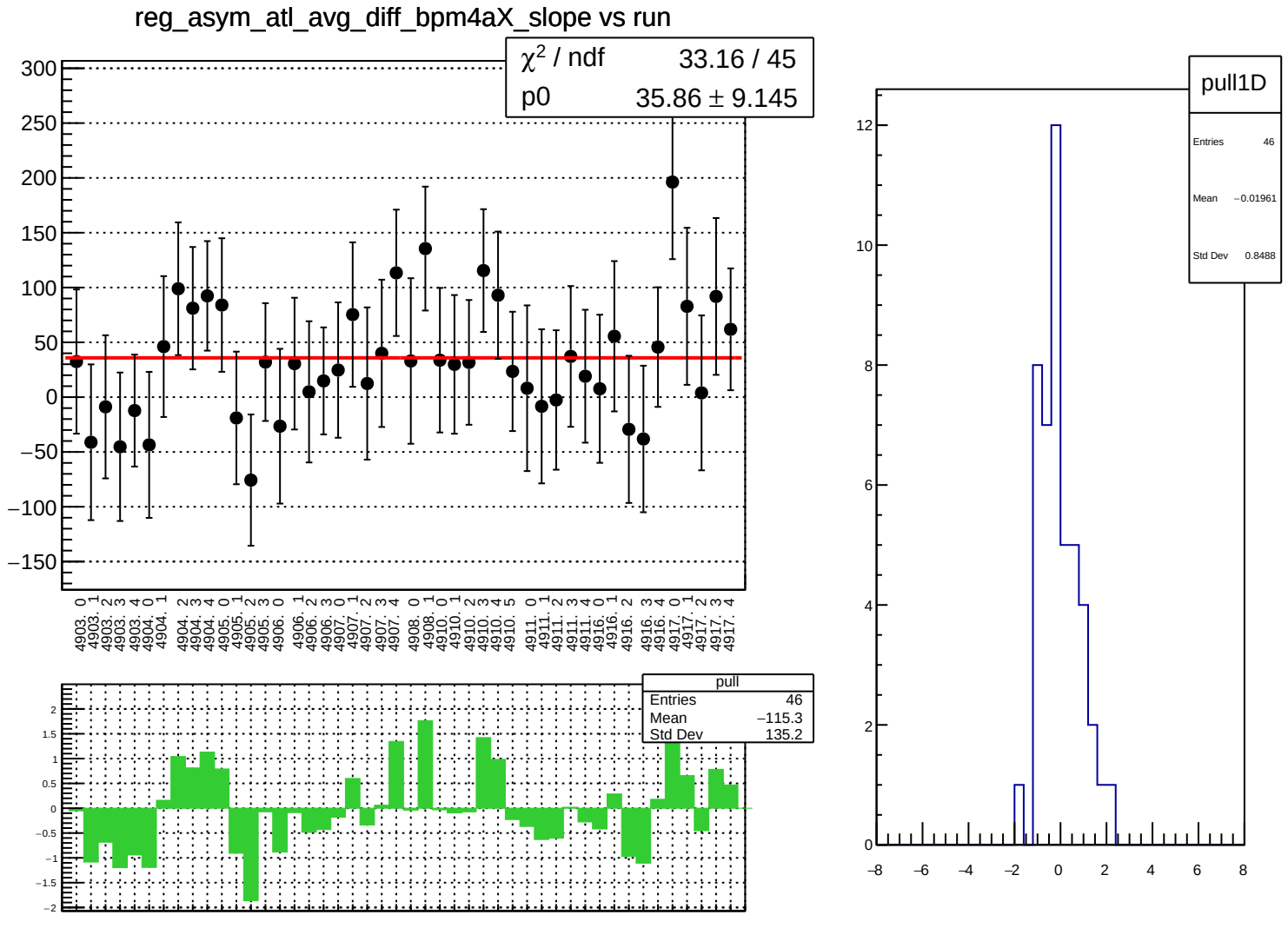

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 32.81 / 45
p0 −79.04 ± 2.904
pull
Entries 46
Mean −89.92
Std Dev 107.6

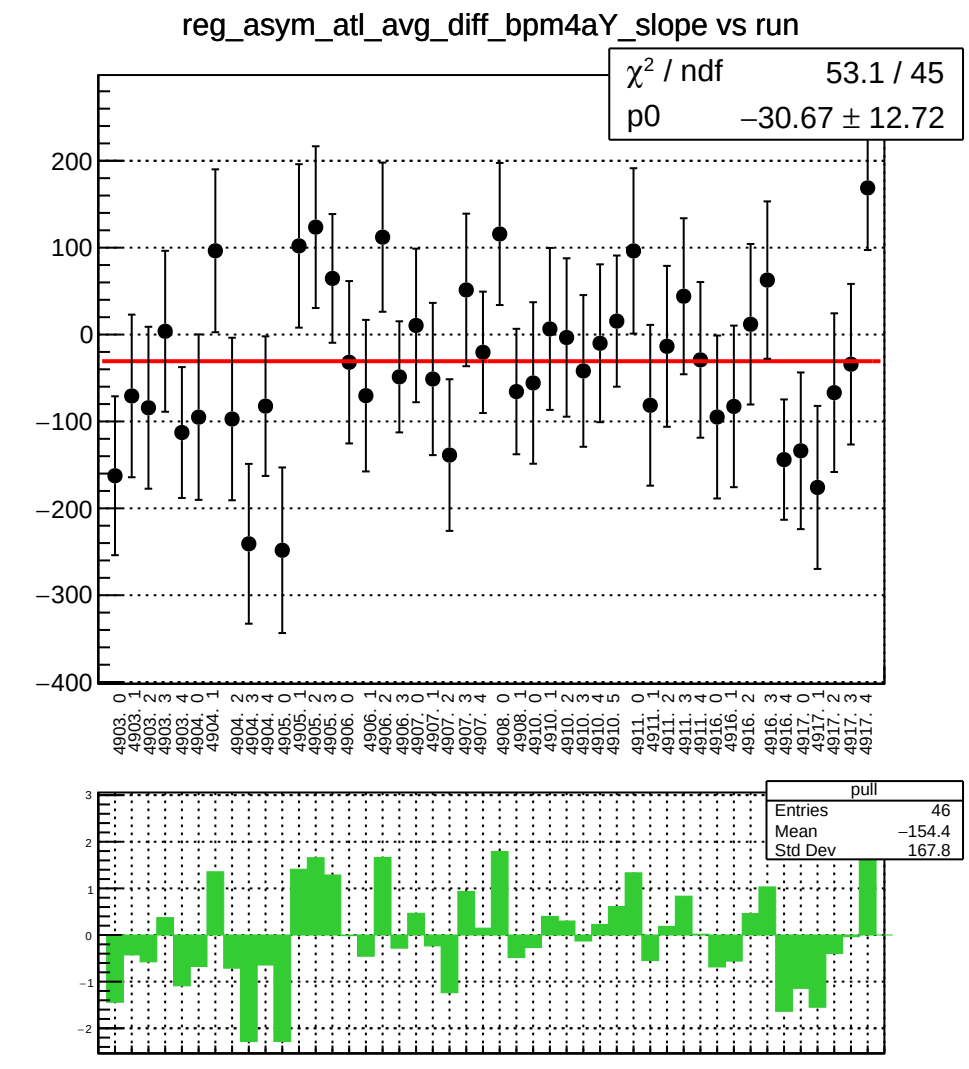

pull1D
Entries 46
Mean 0.02064
Std Dev 0.8443

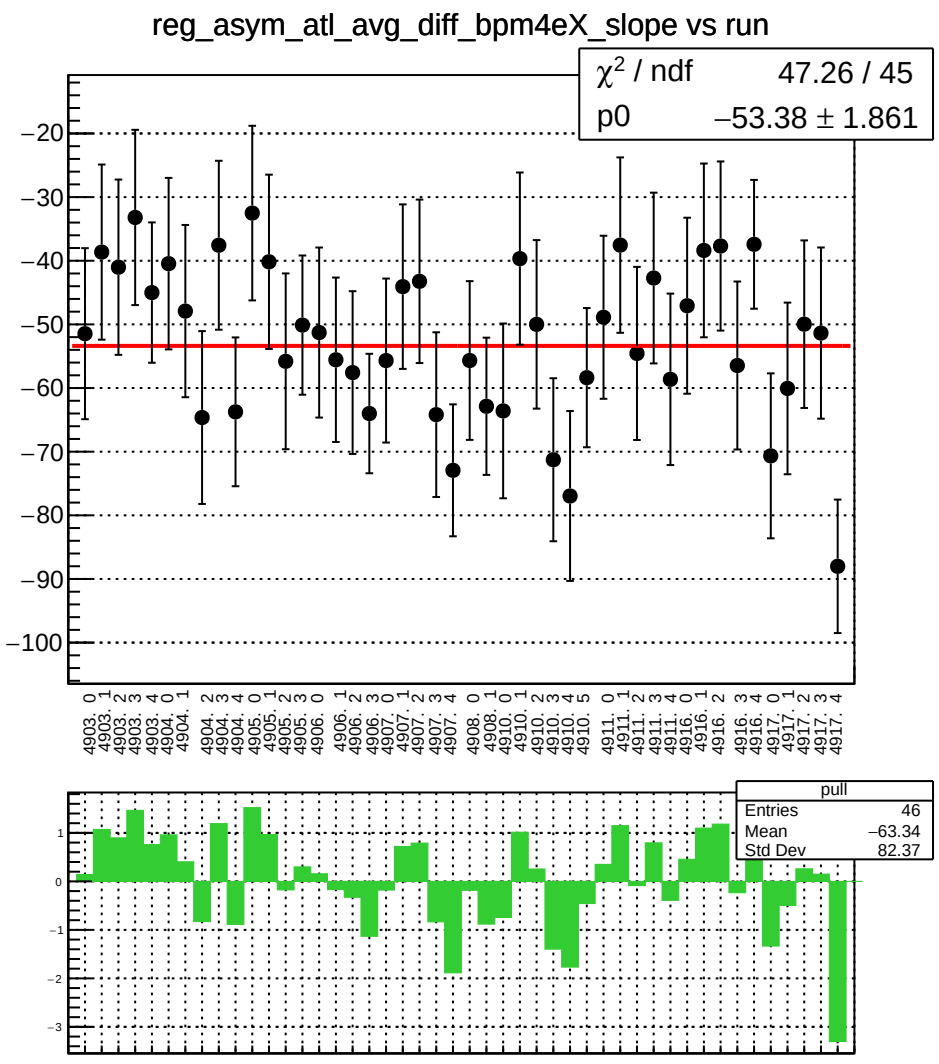

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 29.61 / 45
p0 55.09 ± 22.89
pull
Entries 46
Mean 18.86
Std Dev 47.66

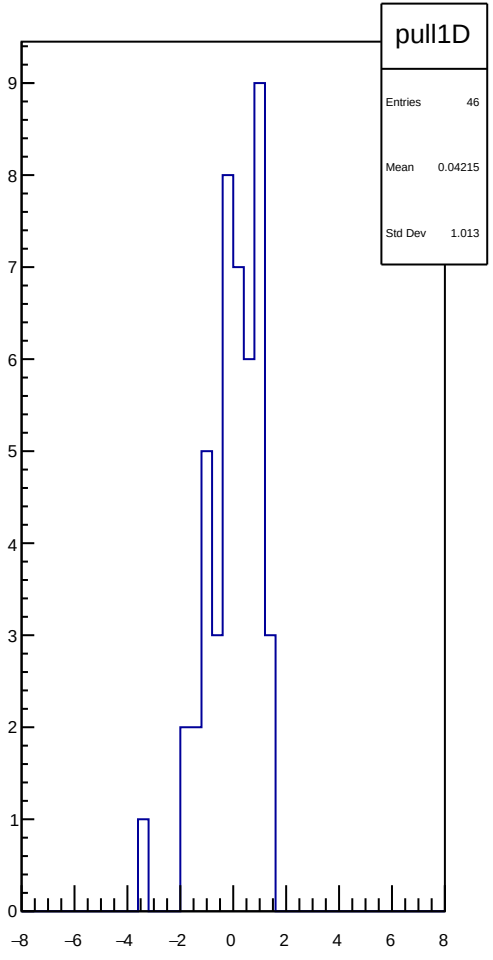

pull1D
Entries 46
Mean 0.01592
Std Dev 0.8022

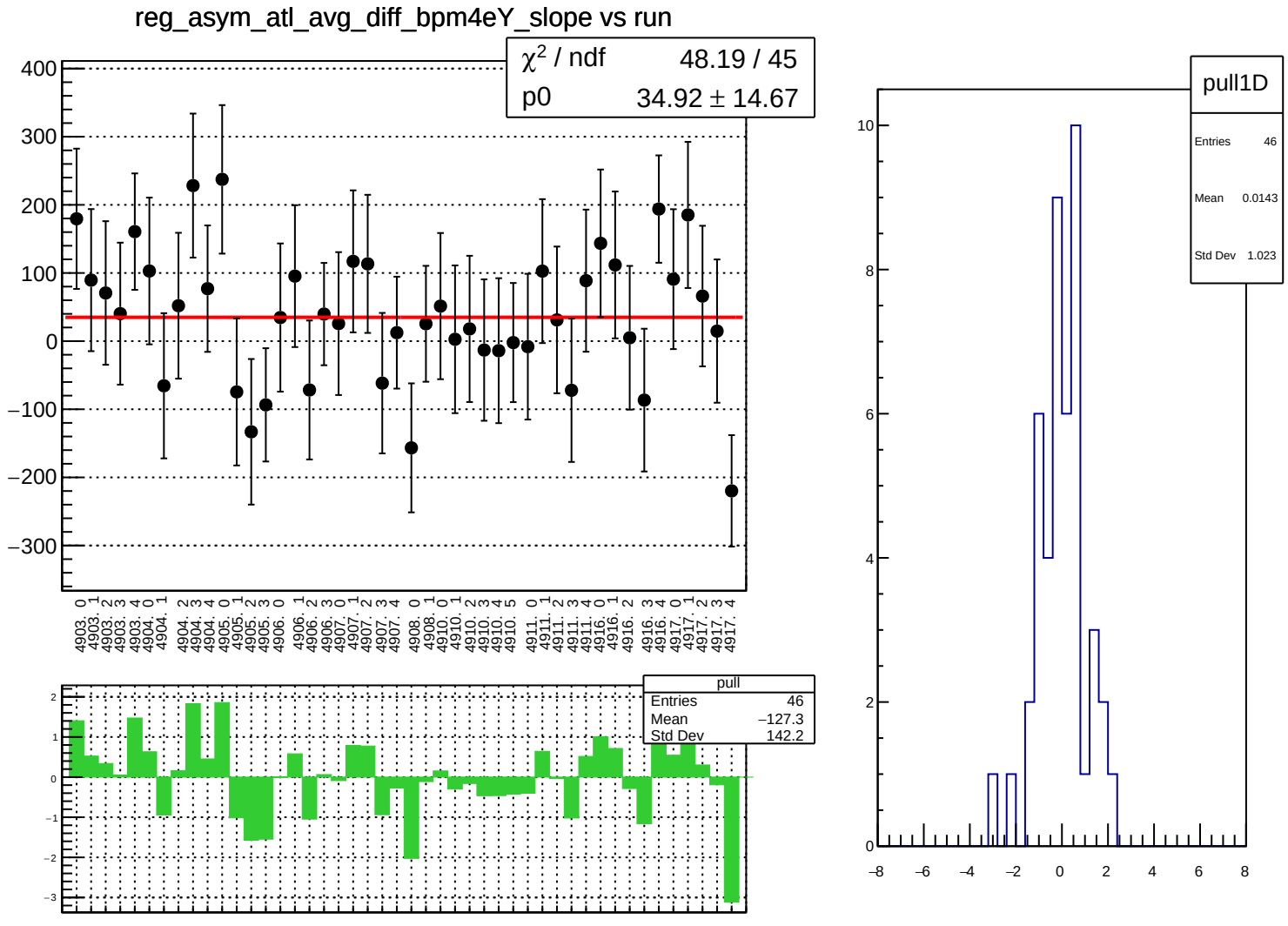

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 50.81 / 45
p0 −19.85 ± 4.498
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −354
Std Dev 351.3
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.003239
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

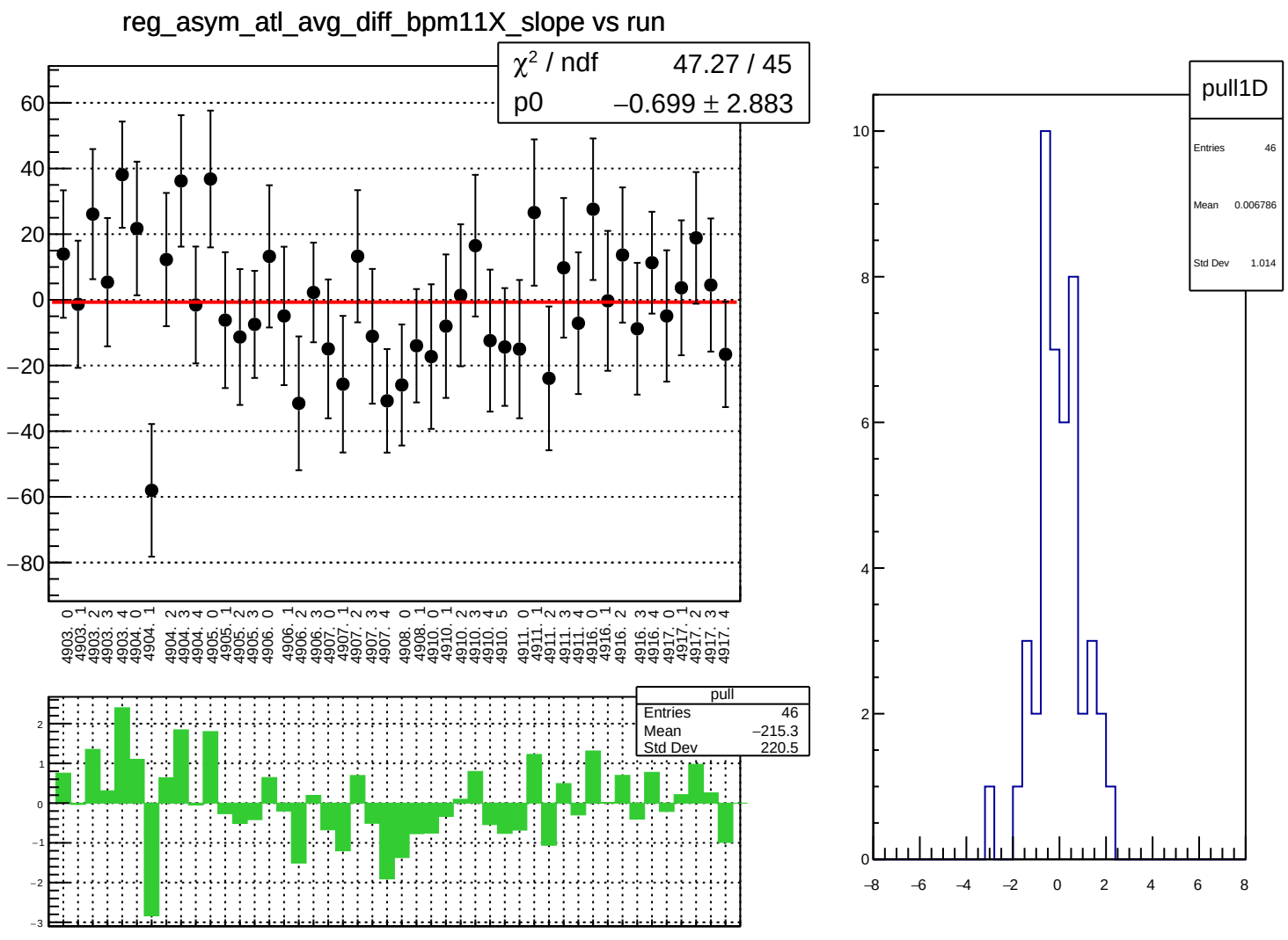

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.16 / 45
p0 35.86 ± 9.145
pull
Entries 46
Mean −115.3
Std Dev 135.2
pull1D
Entries 46
Mean −0.01961
Std Dev 0.8488

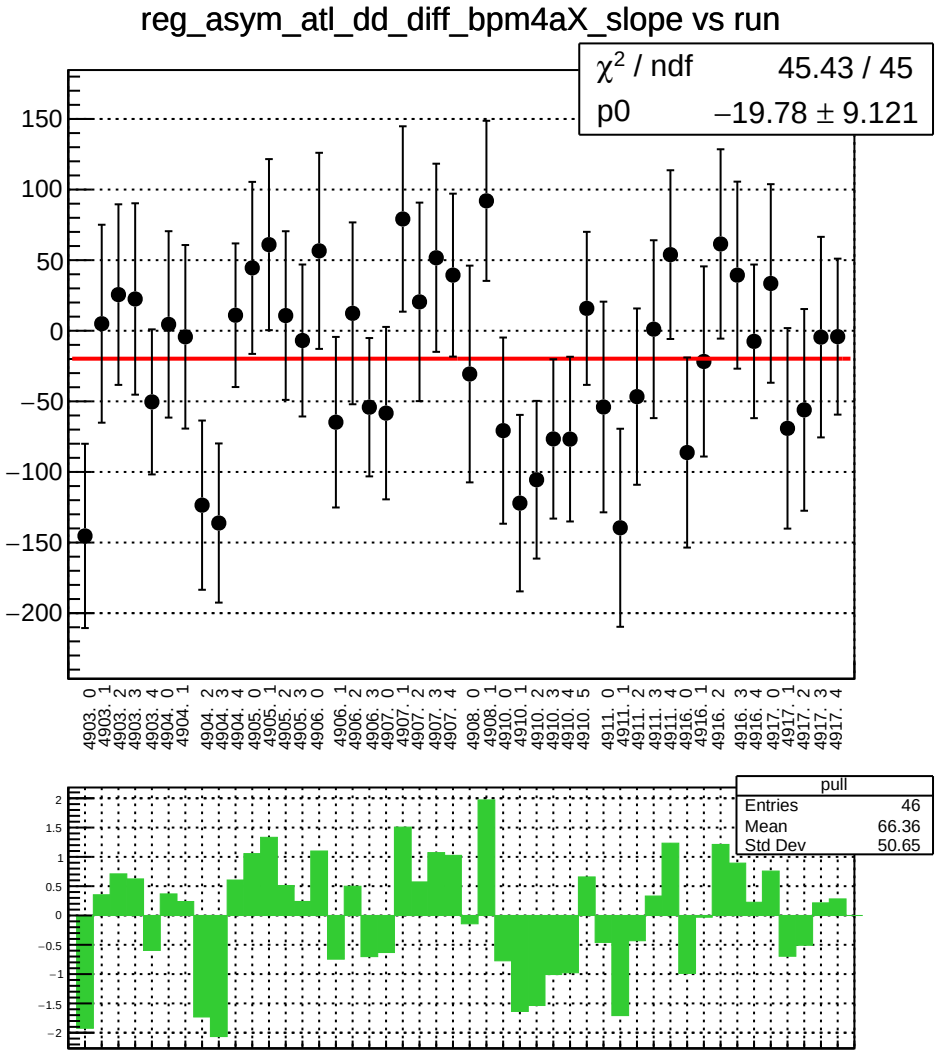

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.1 / 45
p0 −30.67 ± 12.72
200
100
0
−100
−200
−300
−400
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −154.4
Std Dev 167.8
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01127
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

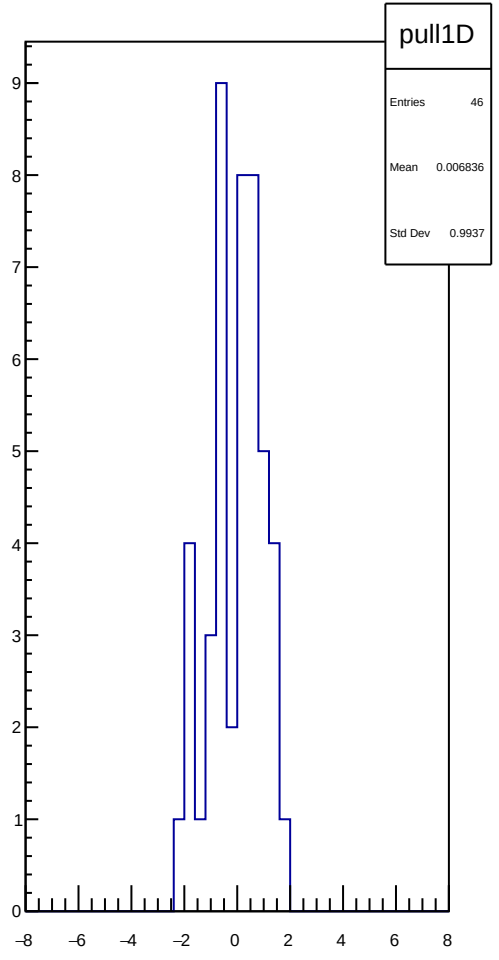

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.26 / 45
p0 −53.38 ± 1.861
pull
Entries 46
Mean −63.34
Std Dev 82.37

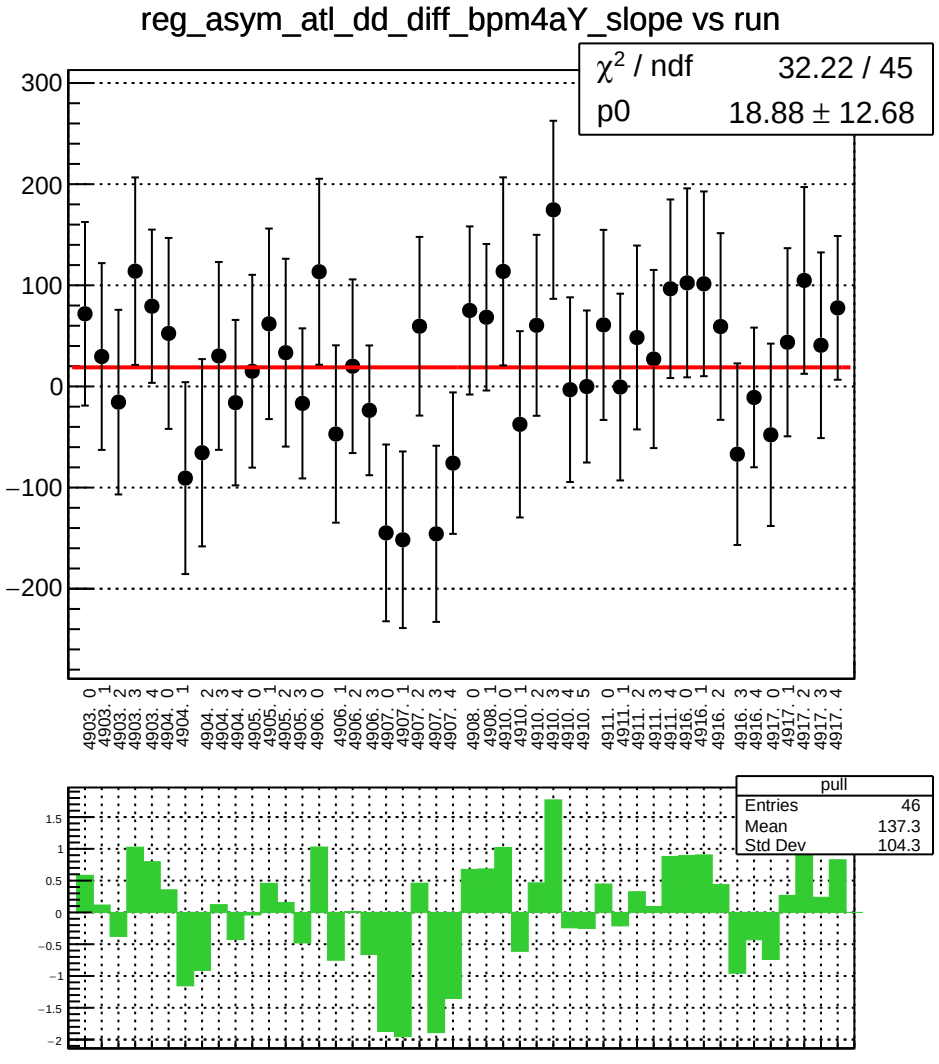

pull1D
Entries 46
Mean 0.04215
Std Dev 1.013

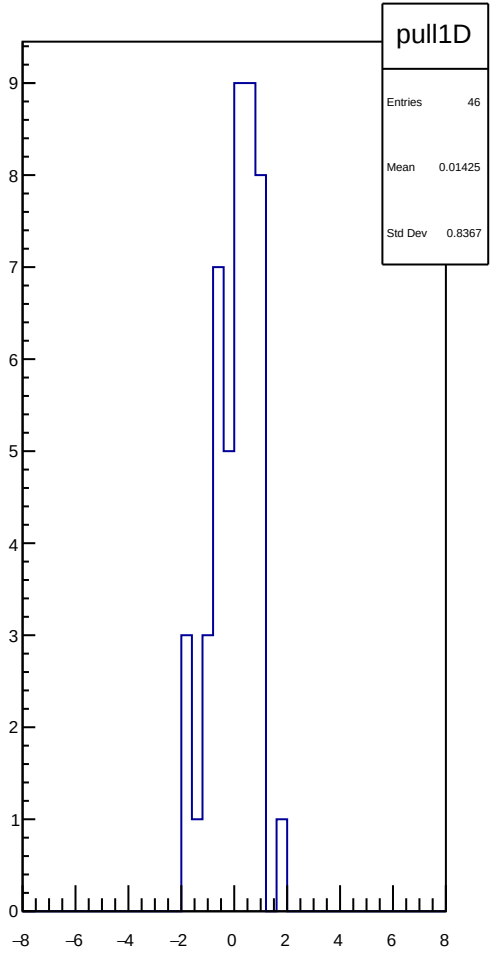

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.19 / 45
p0 34.92 ± 14.67
pull
Entries 46
Mean −127.3
Std Dev 142.2
pull1D
Entries 46
Mean 0.0143
Std Dev 1.023

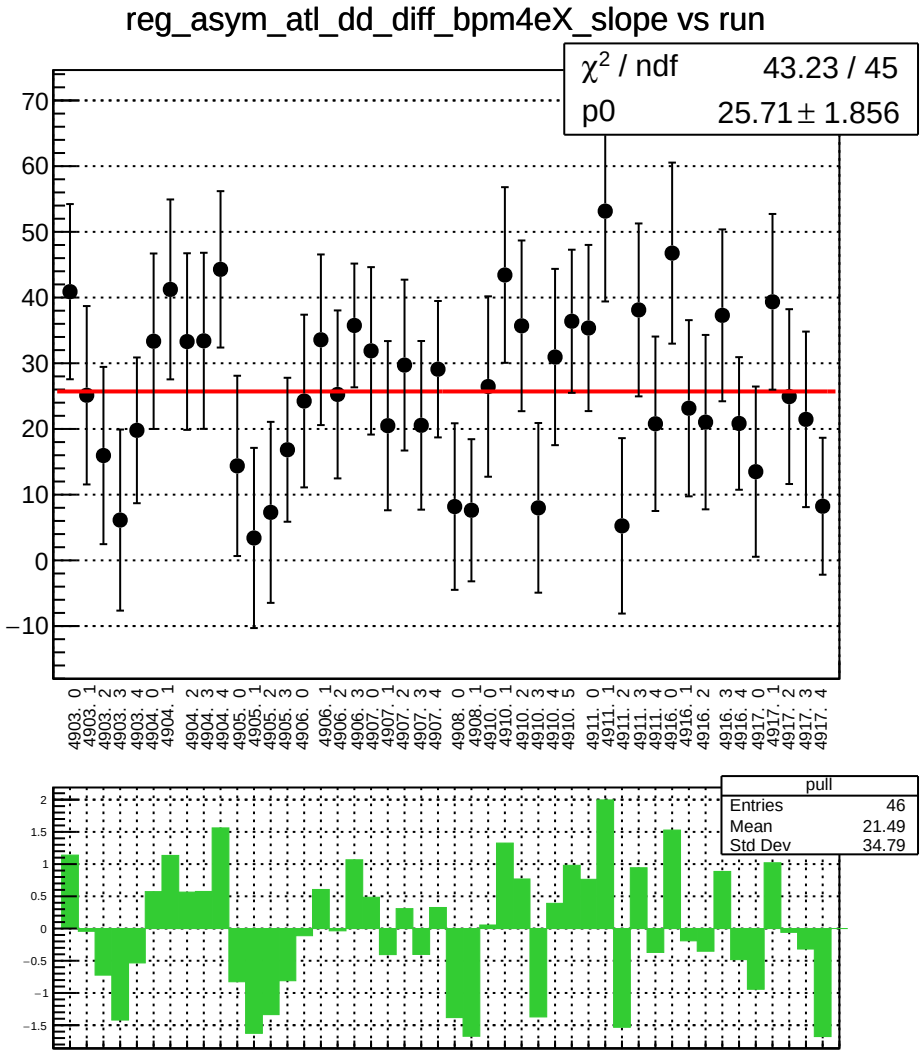

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 47.27 / 45
p0 −0.699 ± 2.883
pull
Entries 46
Mean −215.3
Std Dev 220.5
pull1D
Entries 46
Mean 0.006786
Std Dev 1.014

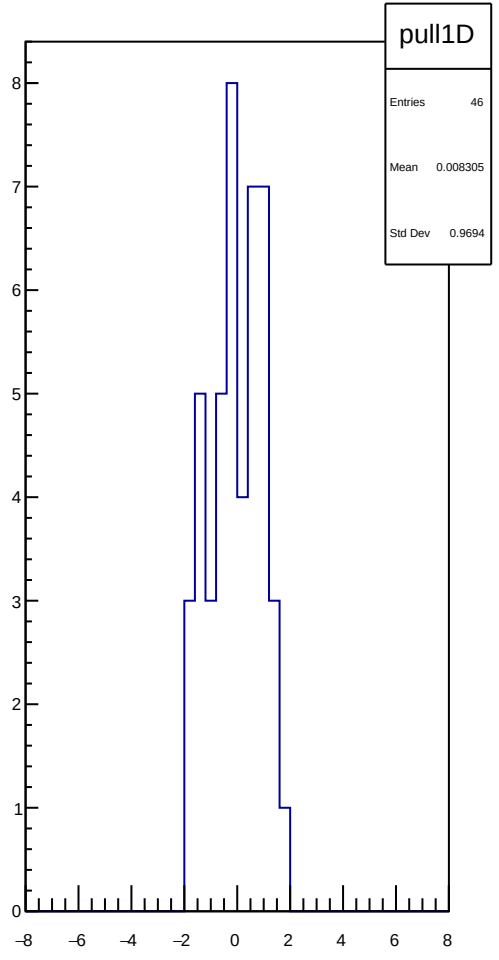

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.43 / 45
p0 −19.78 ± 9.121
pull
Entries 46
Mean 66.36
Std Dev 50.65

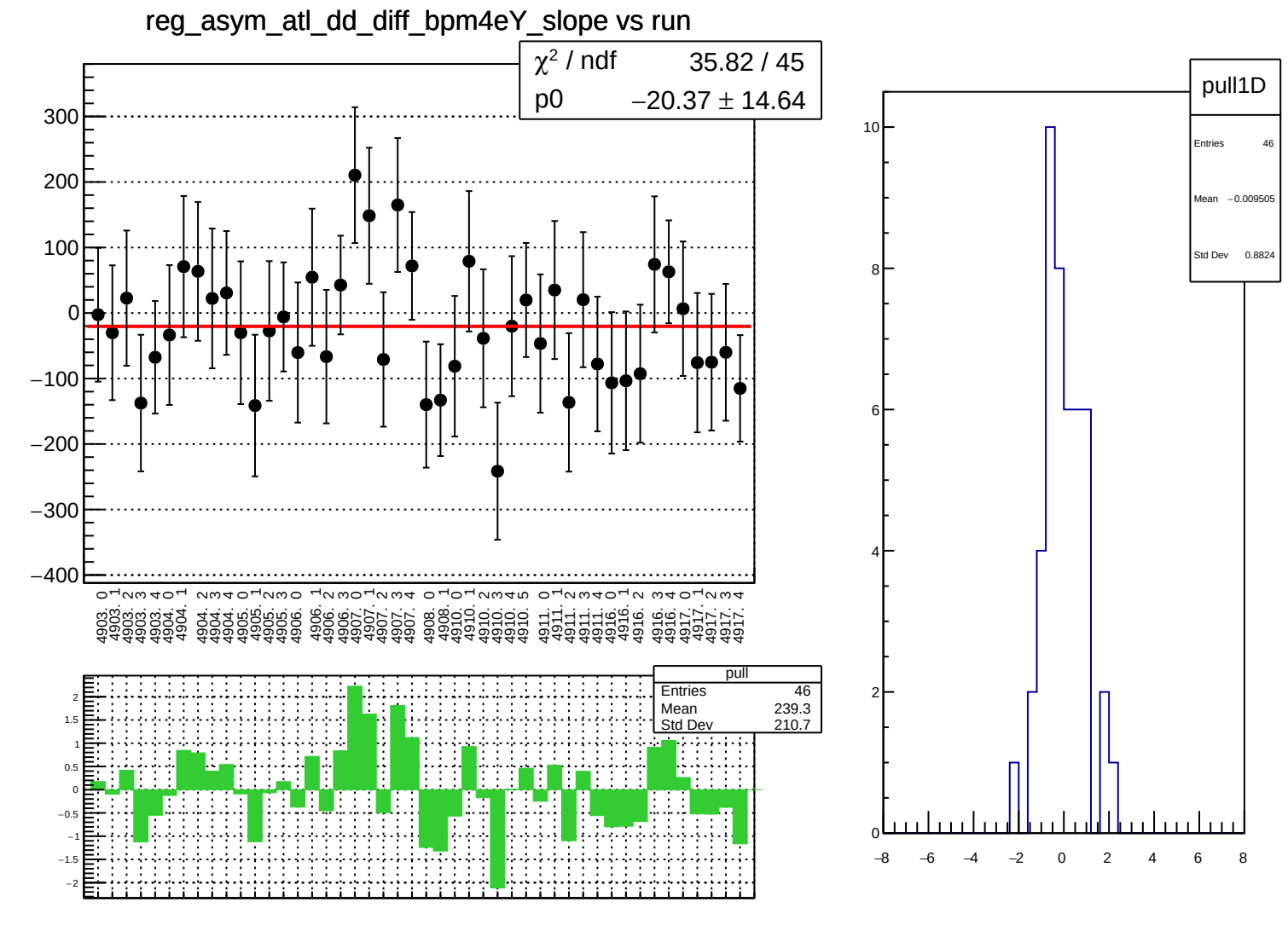

pull1D
Entries 46
Mean 0.006836
Std Dev 0.9937

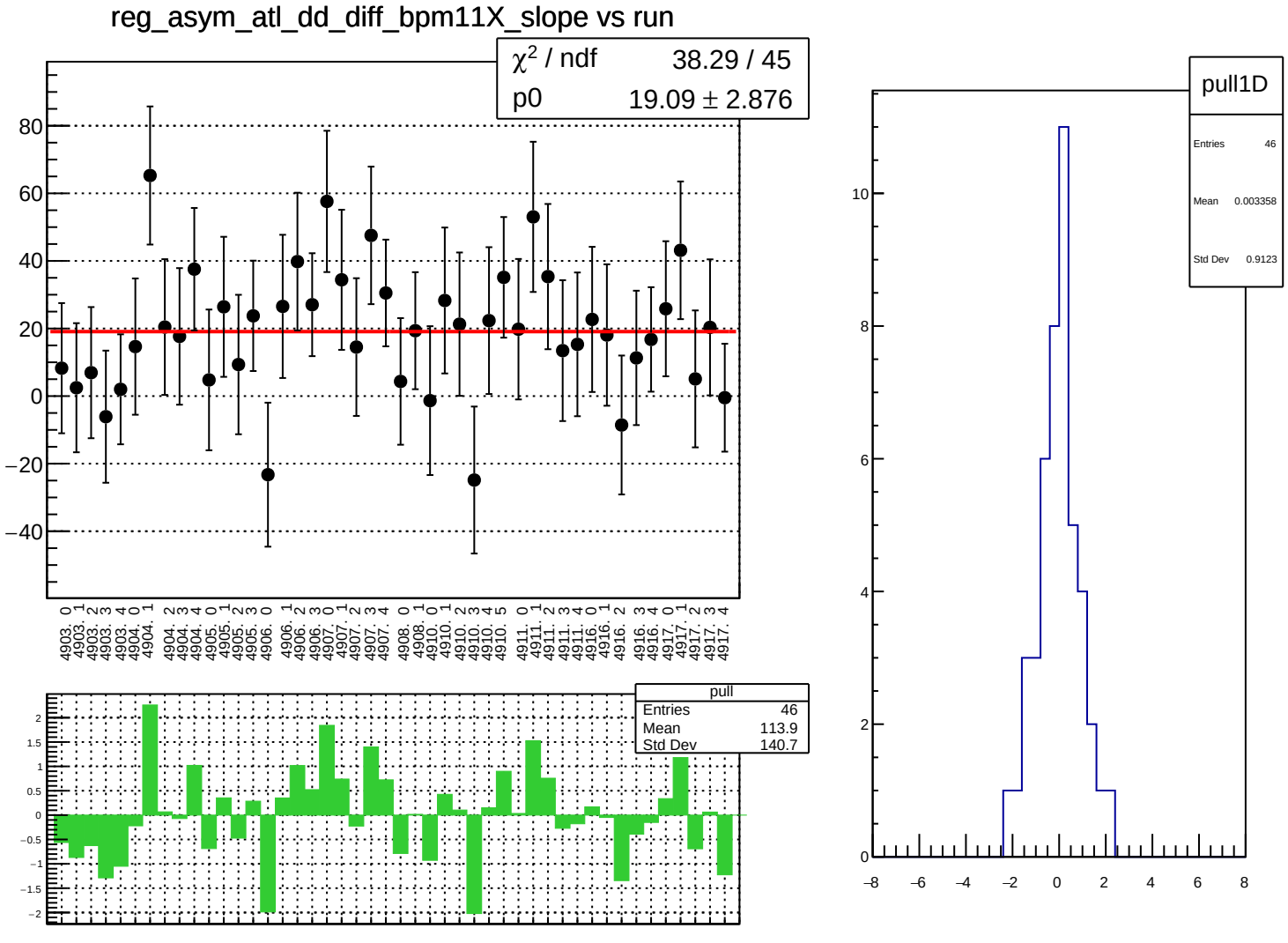

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.22 / 45
p0 18.88 ± 12.68
pull
Entries 46
Mean 137.3
Std Dev 104.3

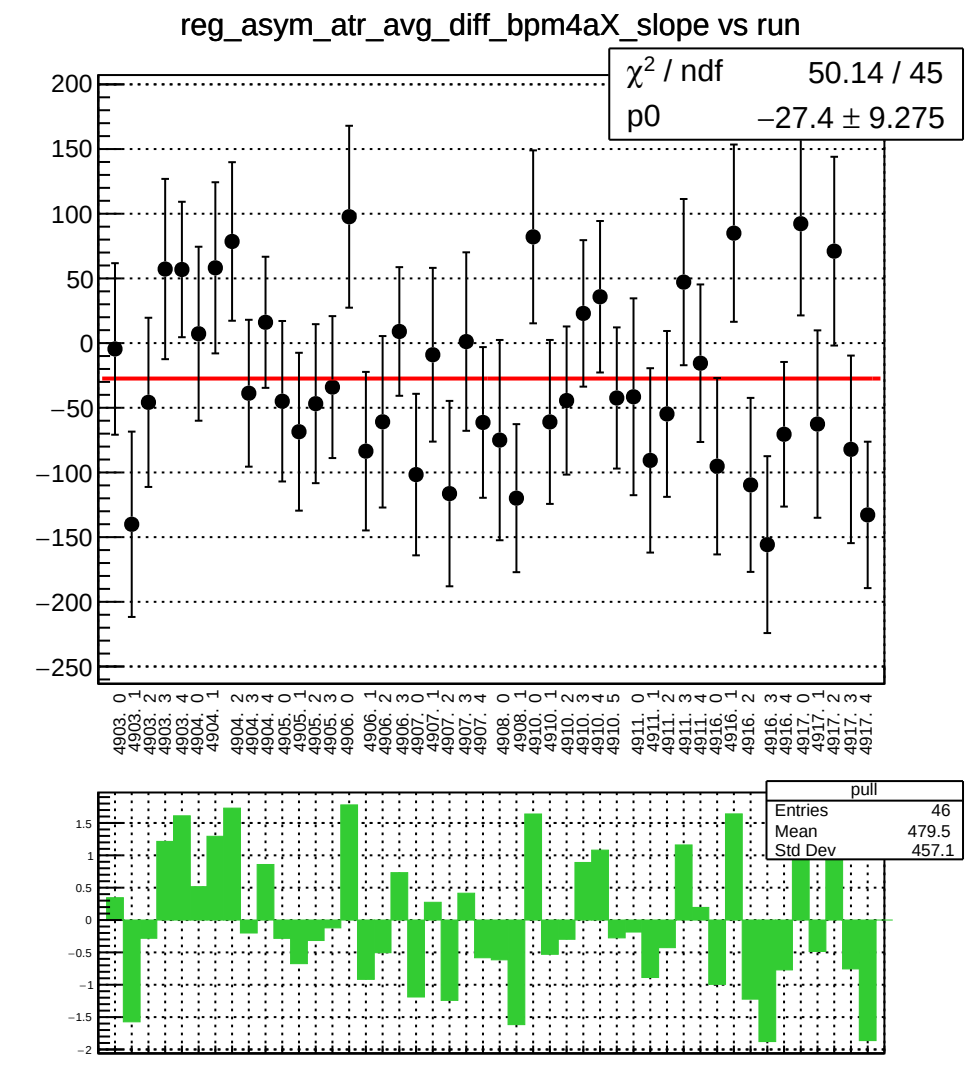

pull1D
Entries 46
Mean 0.01425
Std Dev 0.8367

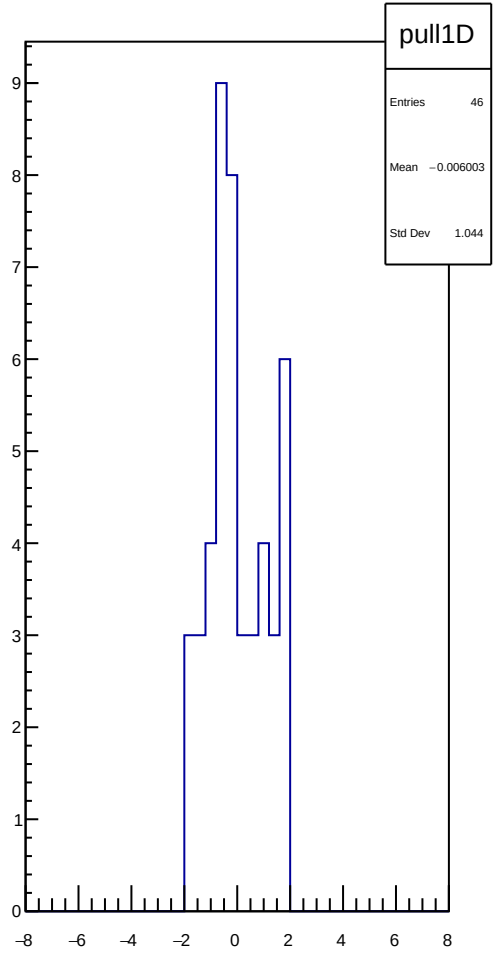

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.23 / 45
p0 25.71 ± 1.856
pull
Entries 46
Mean 21.49
Std Dev 34.79

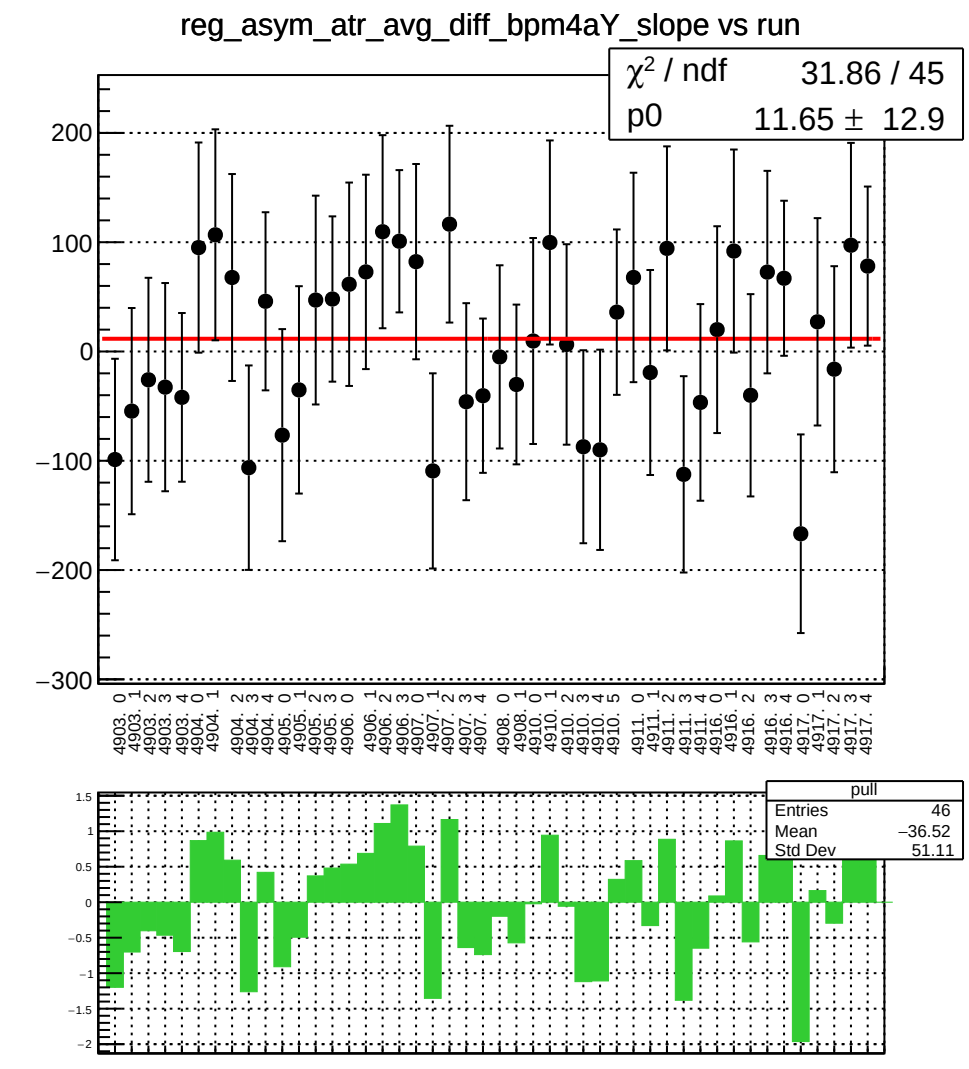

pull1D
Entries 46
Mean 0.008305
Std Dev 0.9694

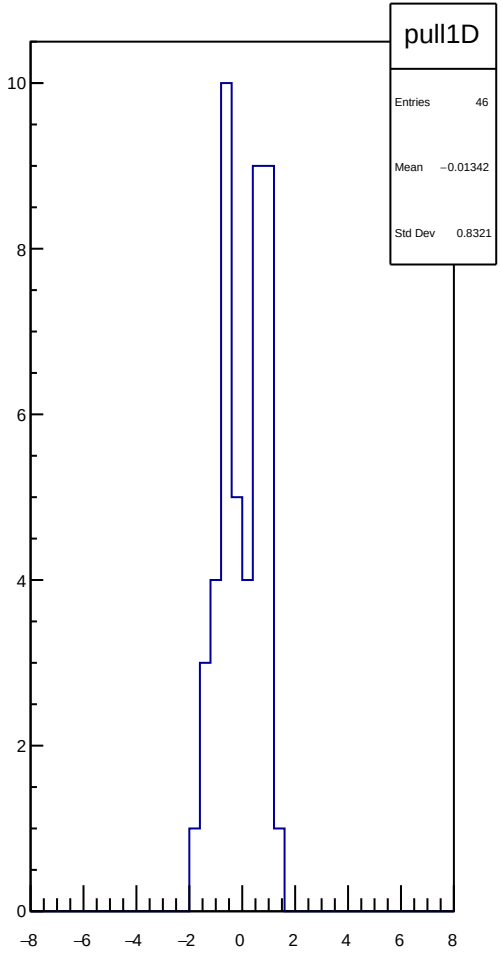

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.82 / 45
p0 −20.37 ± 14.64
pull
Entries 46
Mean 239.3
Std Dev 210.7
pull1D
Entries 46
Mean −0.009505
Std Dev 0.8824

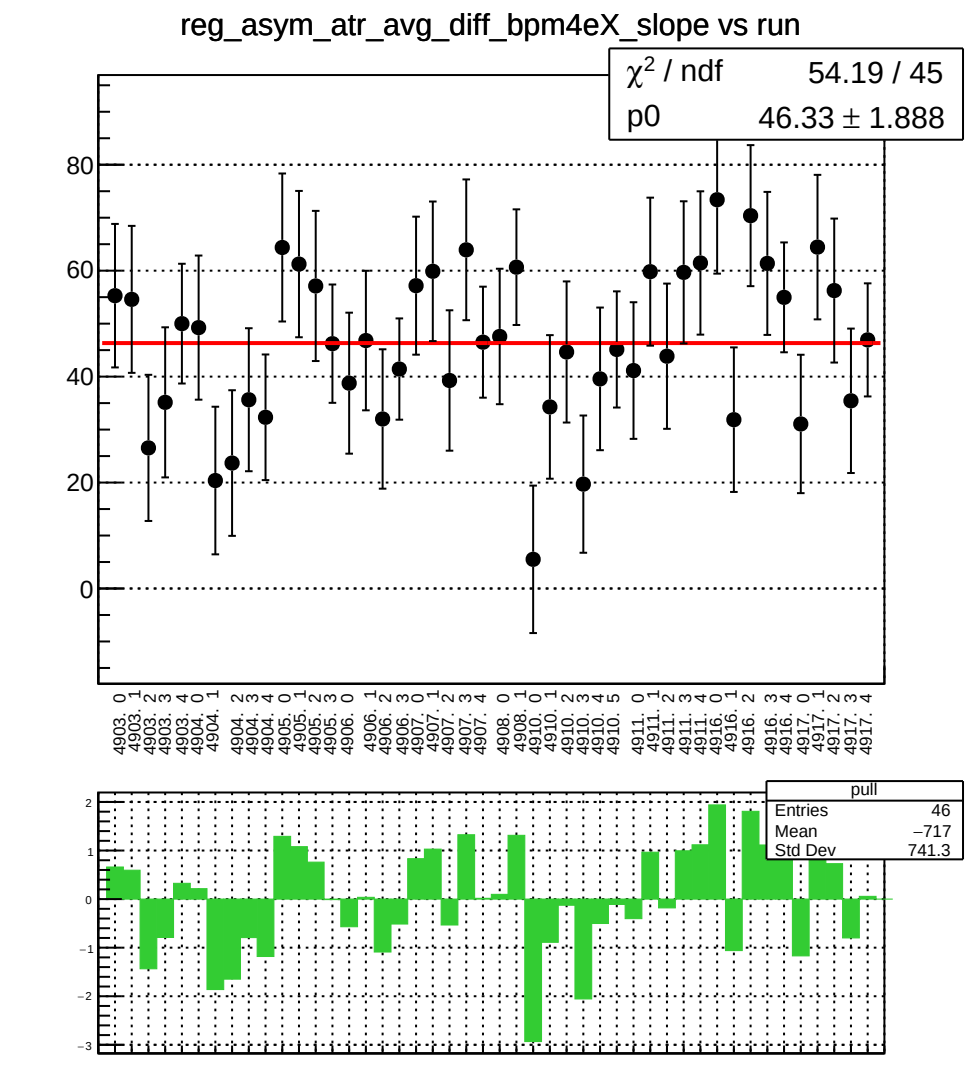

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 38.29 / 45
p0 19.09 ± 2.876
pull
Entries 46
Mean 113.9
Std Dev 140.7
pull1D
Entries 46
Mean 0.003358
Std Dev 0.9123

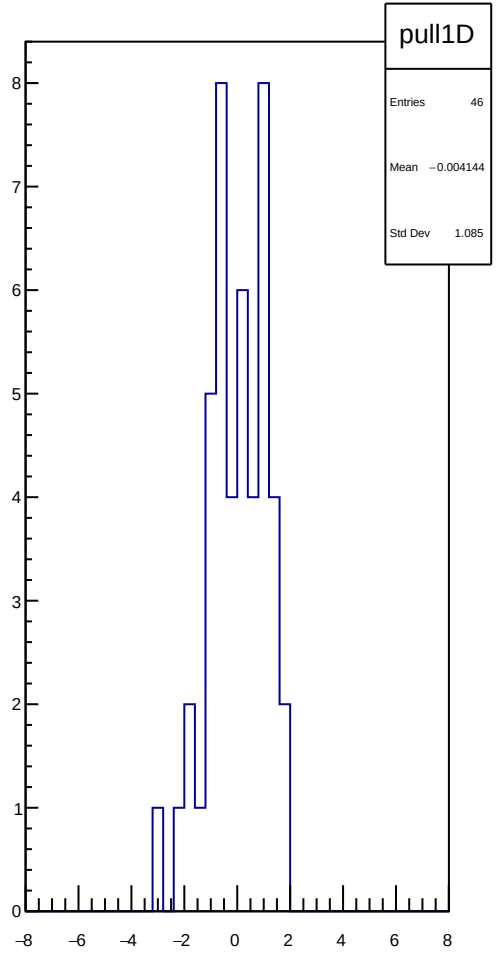

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.14 / 45
p0 −27.4 ± 9.275
pull
Entries 46
Mean 479.5
Std Dev 457.1

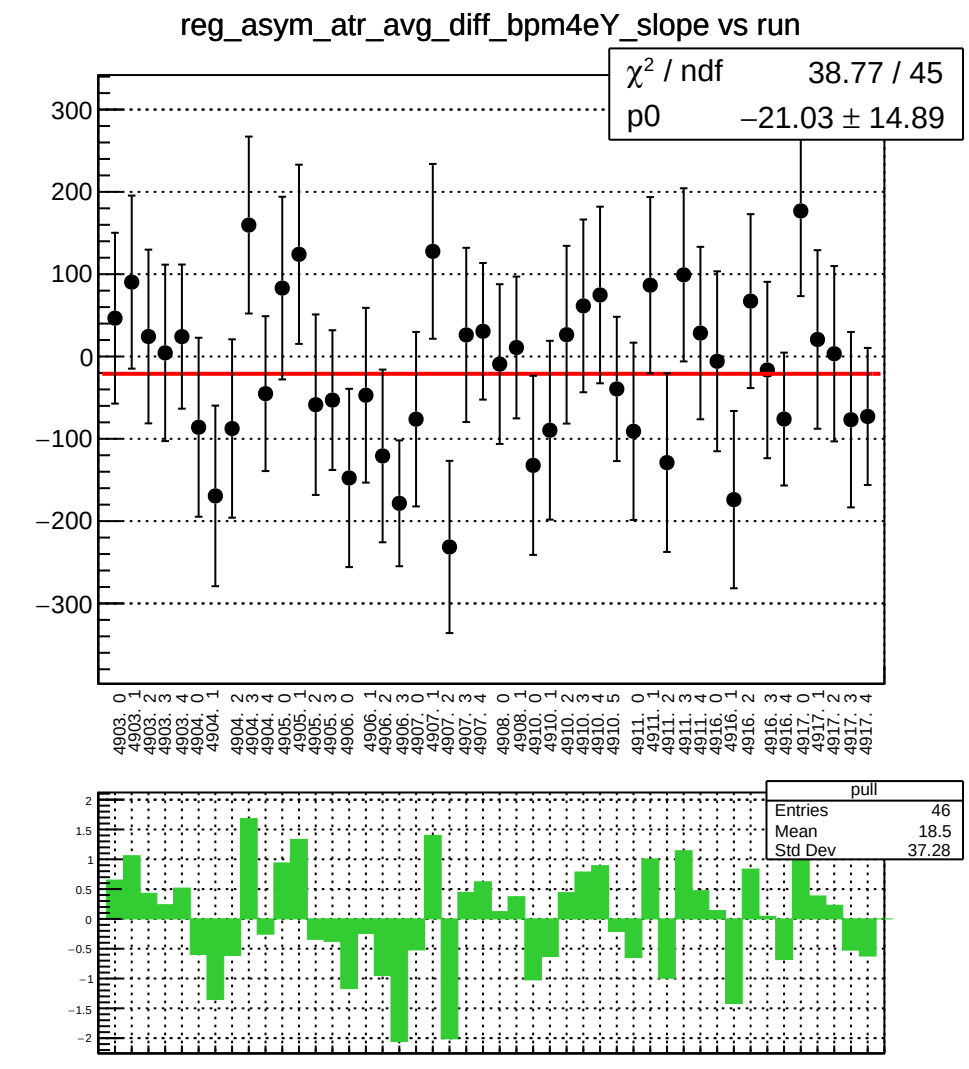

pull1D
Entries 46
Mean −0.006003
Std Dev 1.044

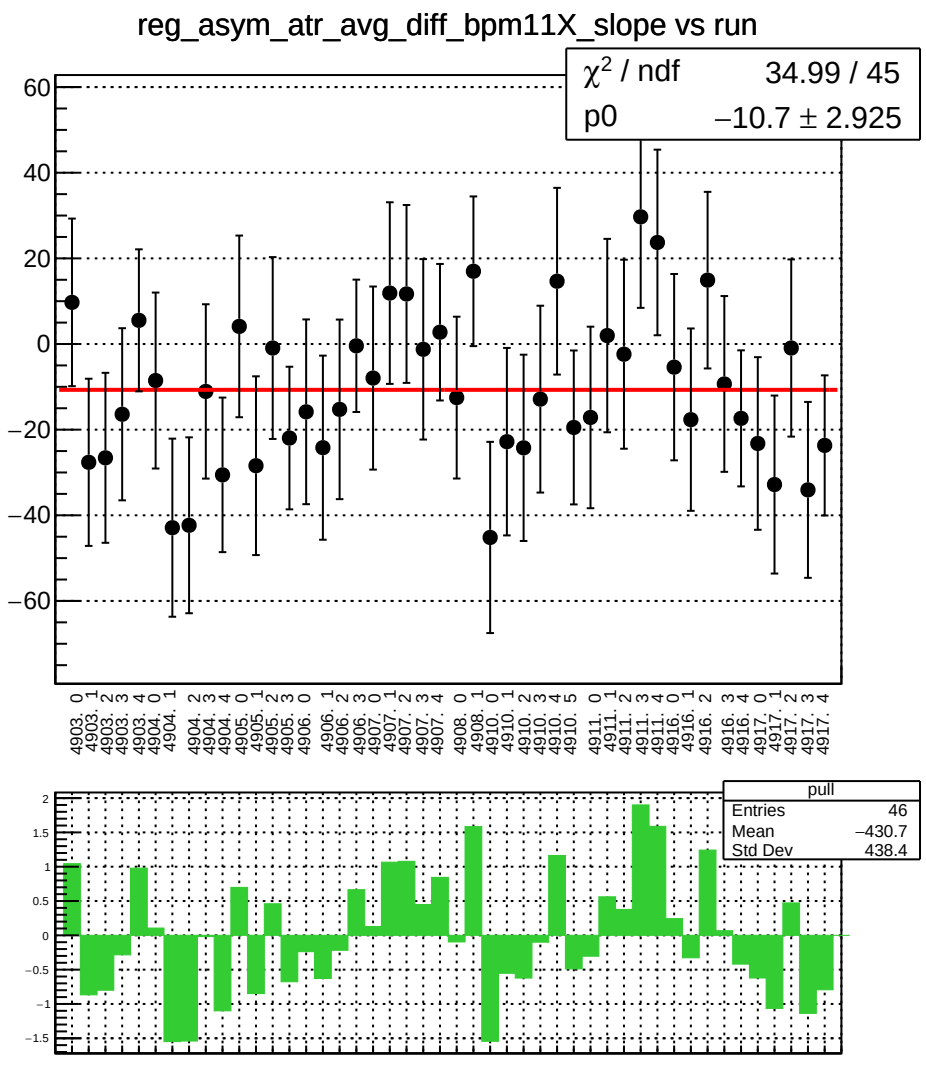

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.86 / 45
p0 11.65 ± 12.9
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −36.52
Std Dev 51.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2

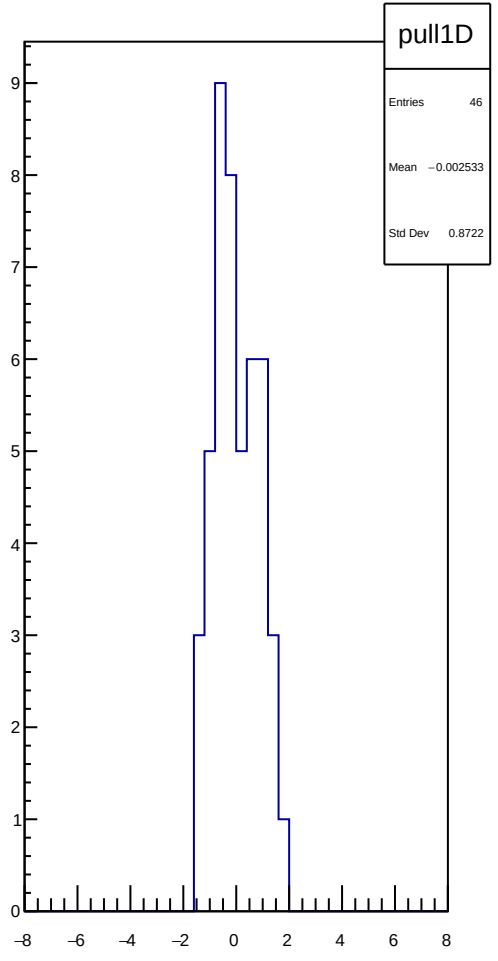

pull1D
Entries 46
Mean −0.01342
Std Dev 0.8321
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

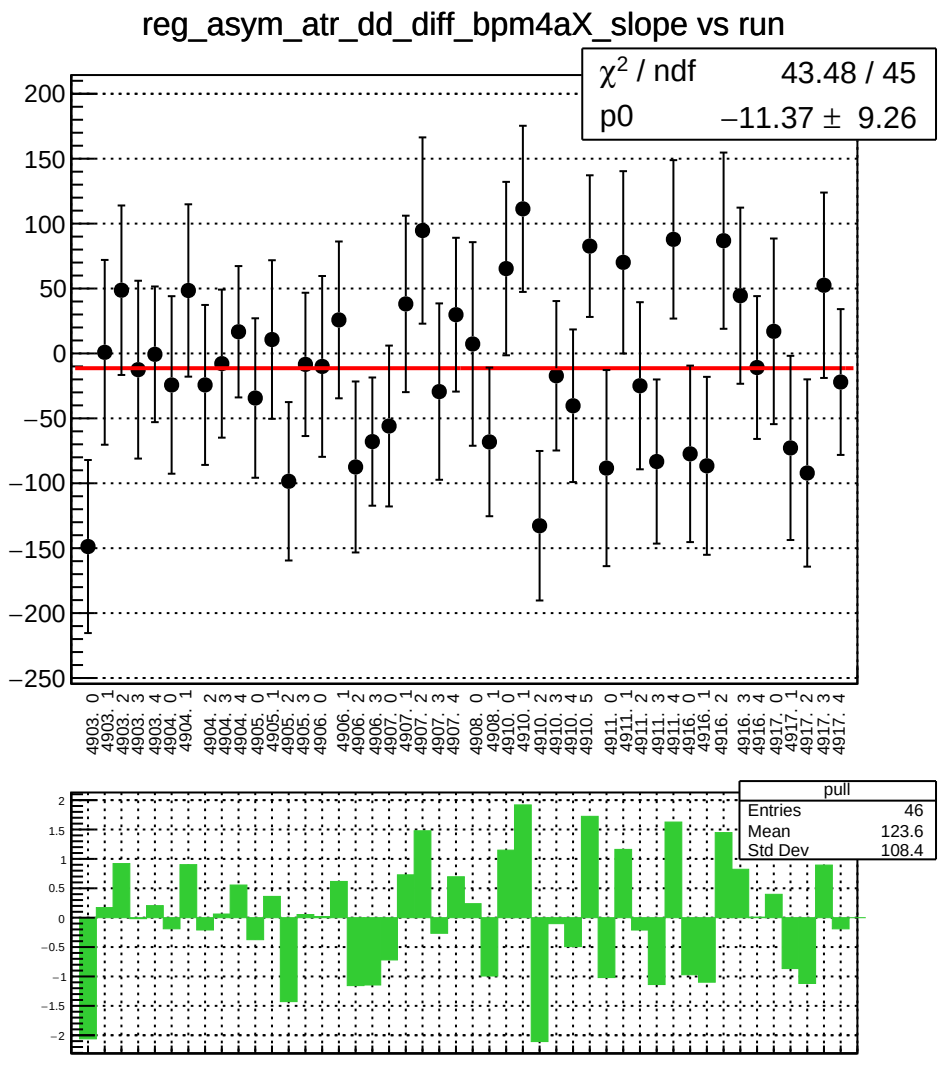

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.19 / 45
p0 46.33 ± 1.888
pull
Entries 46
Mean −717
Std Dev 741.3

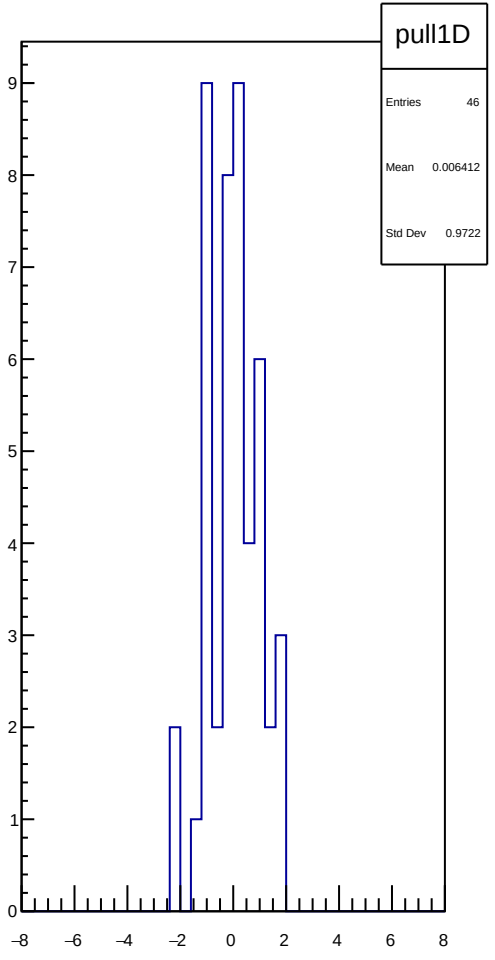

pull1D
Entries 46
Mean −0.004144
Std Dev 1.085

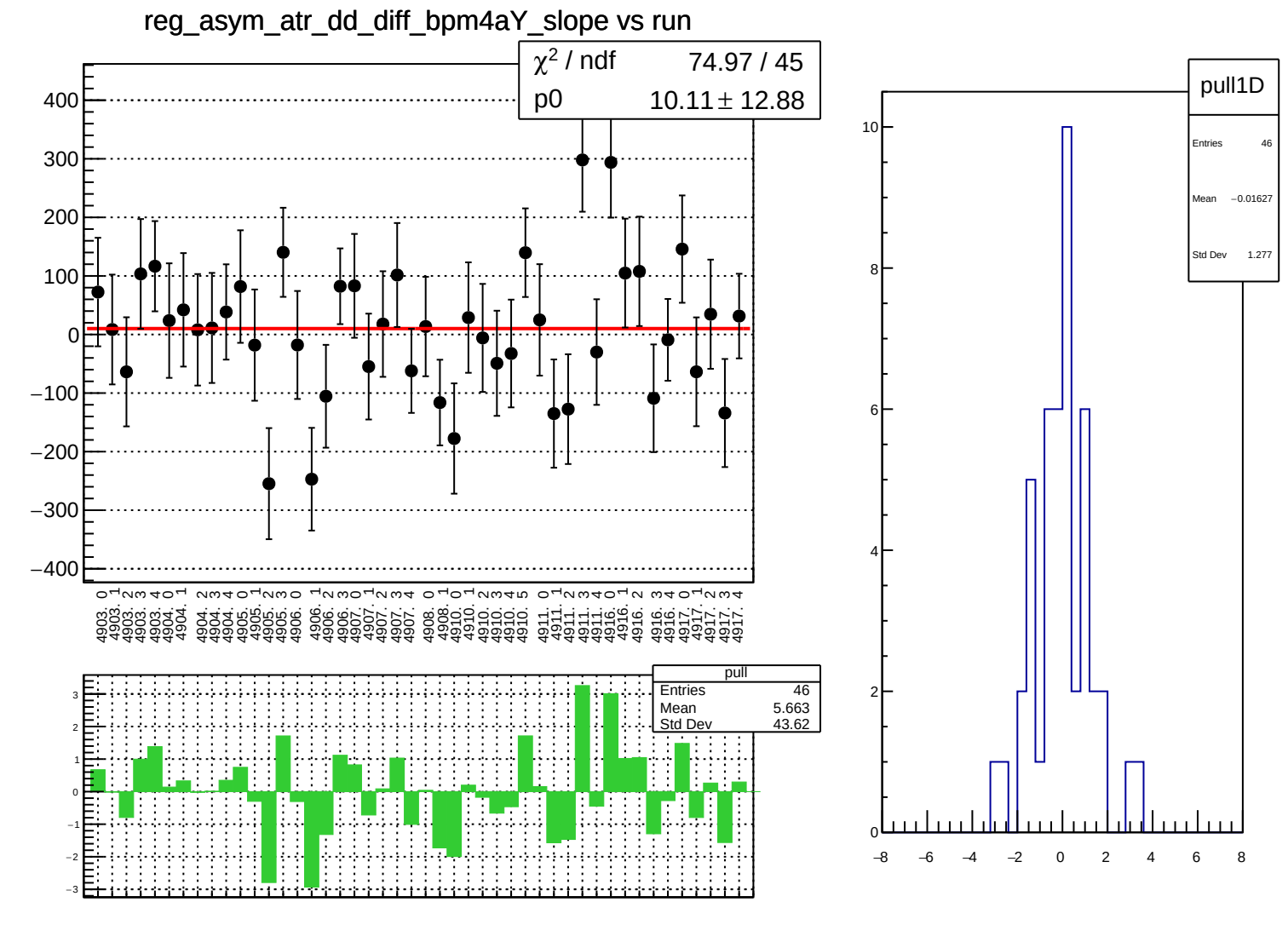

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.77 / 45
p0 −21.03 ± 14.89
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 18.5
Std Dev 37.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01844
Std Dev 0.9178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

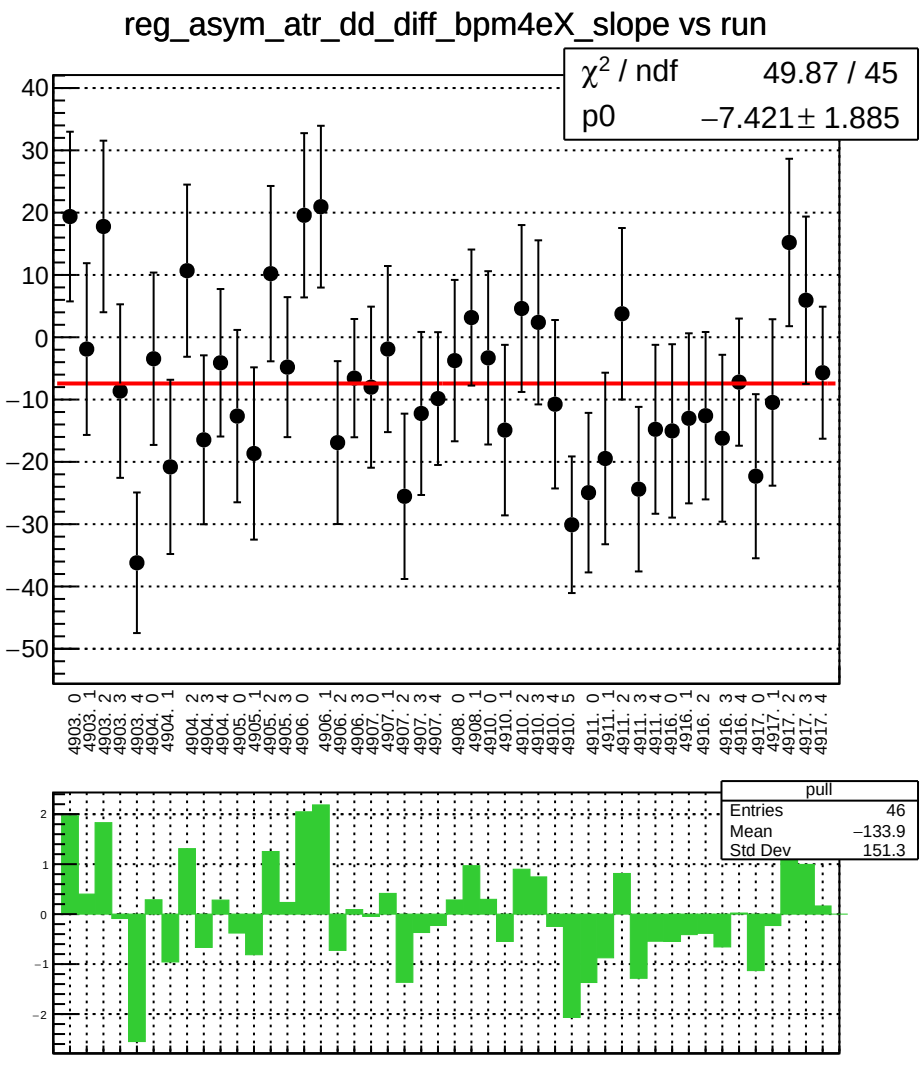

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 34.99 / 45
p0 −10.7 ± 2.925
pull
Entries 46
Mean −430.7
Std Dev 438.4

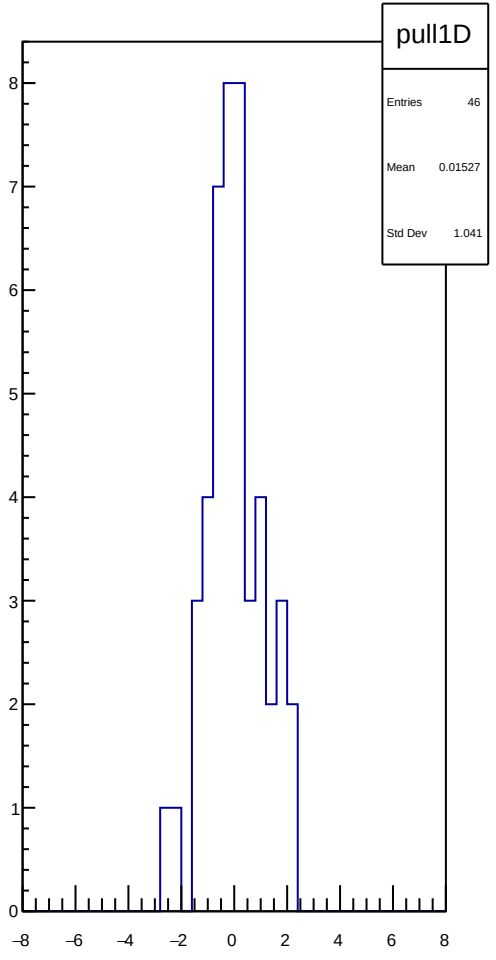

pull1D
Entries 46
Mean −0.002533
Std Dev 0.8722

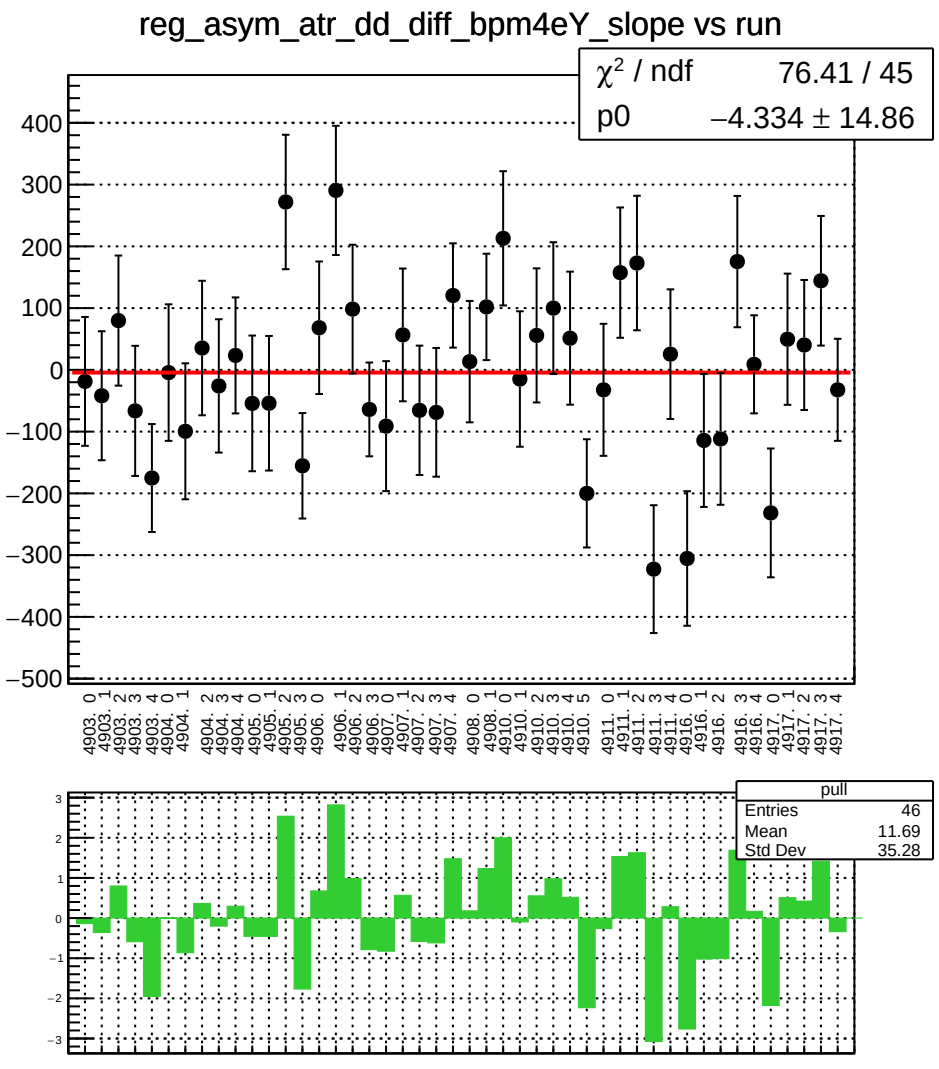

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.48 / 45
p0 −11.37 ± 9.26
pull
Entries 46
Mean 123.6
Std Dev 108.4

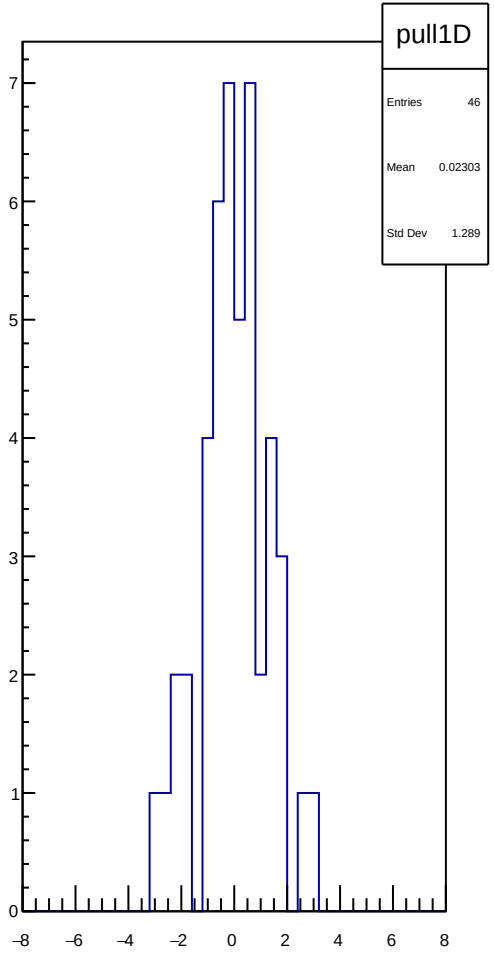

pull1D
Entries 46
Mean 0.006412
Std Dev 0.9722

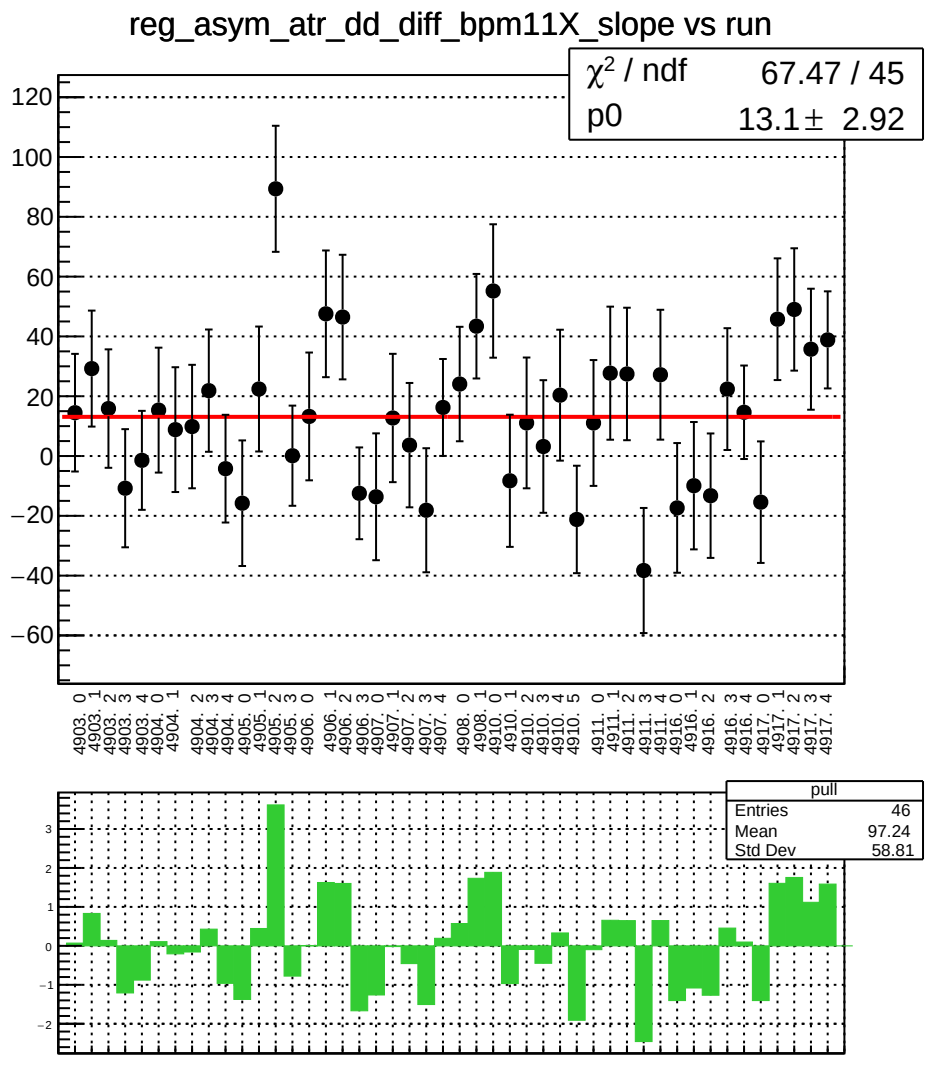

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.97 / 45
p0 10.11 ± 12.88
pull
Entries 46
Mean 5.663
Std Dev 43.62
pull1D
Entries 46
Mean −0.01627
Std Dev 1.277

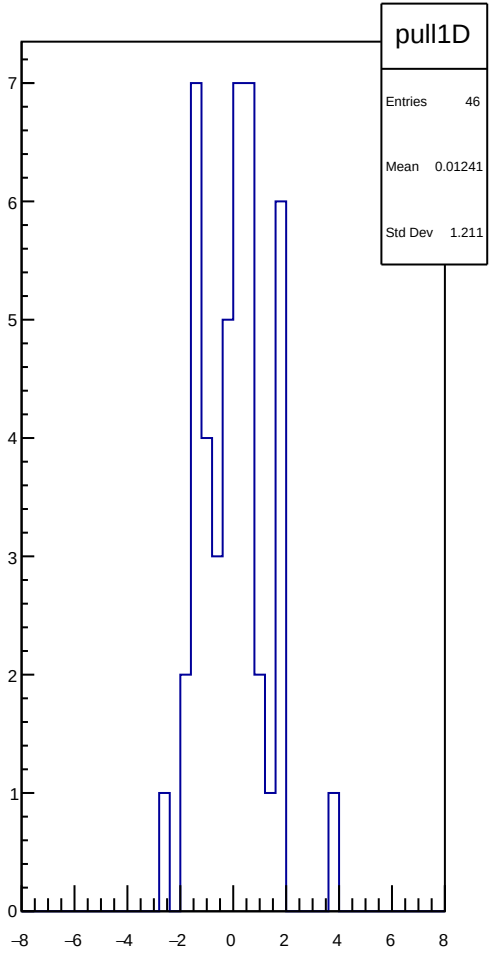

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.87 / 45
p0 −7.421± 1.885
pull
Entries 46
Mean −133.9
Std Dev 151.3

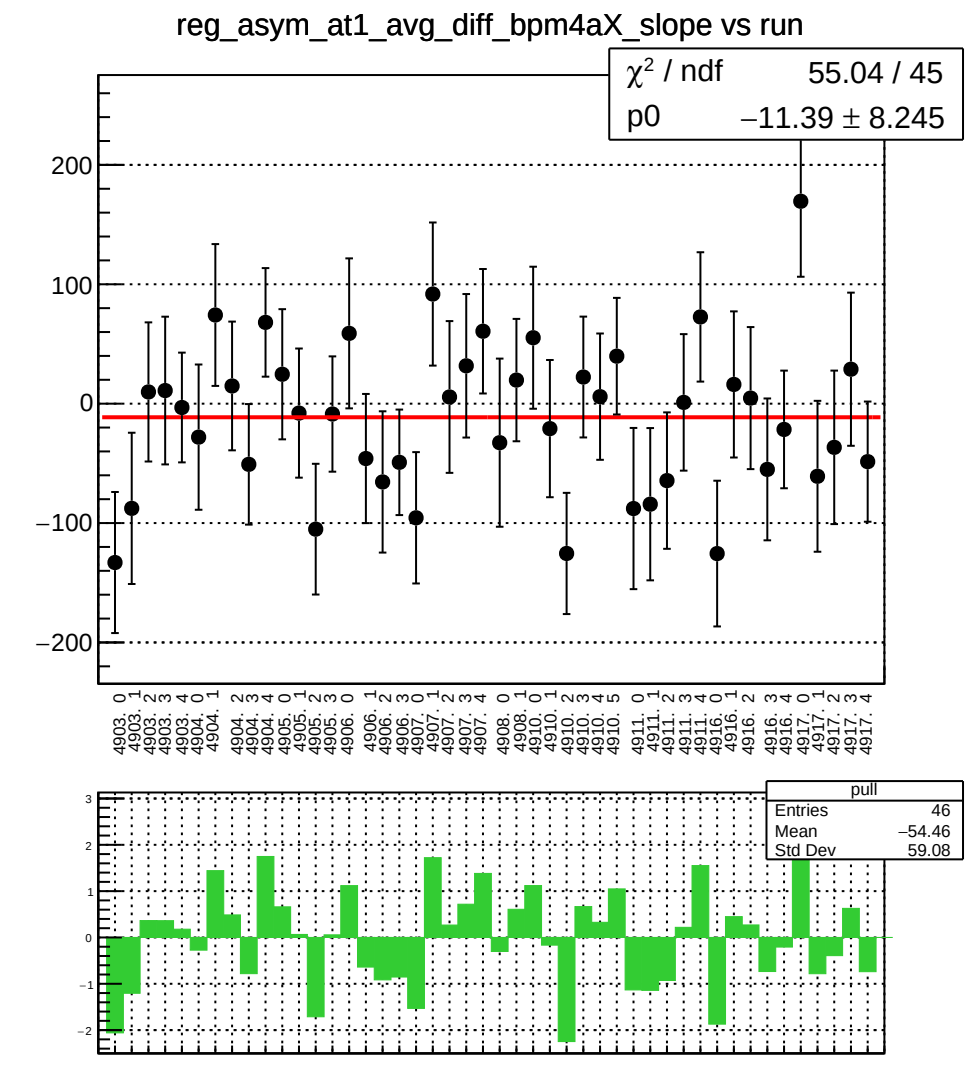

pull1D
Entries 46
Mean 0.01527
Std Dev 1.041

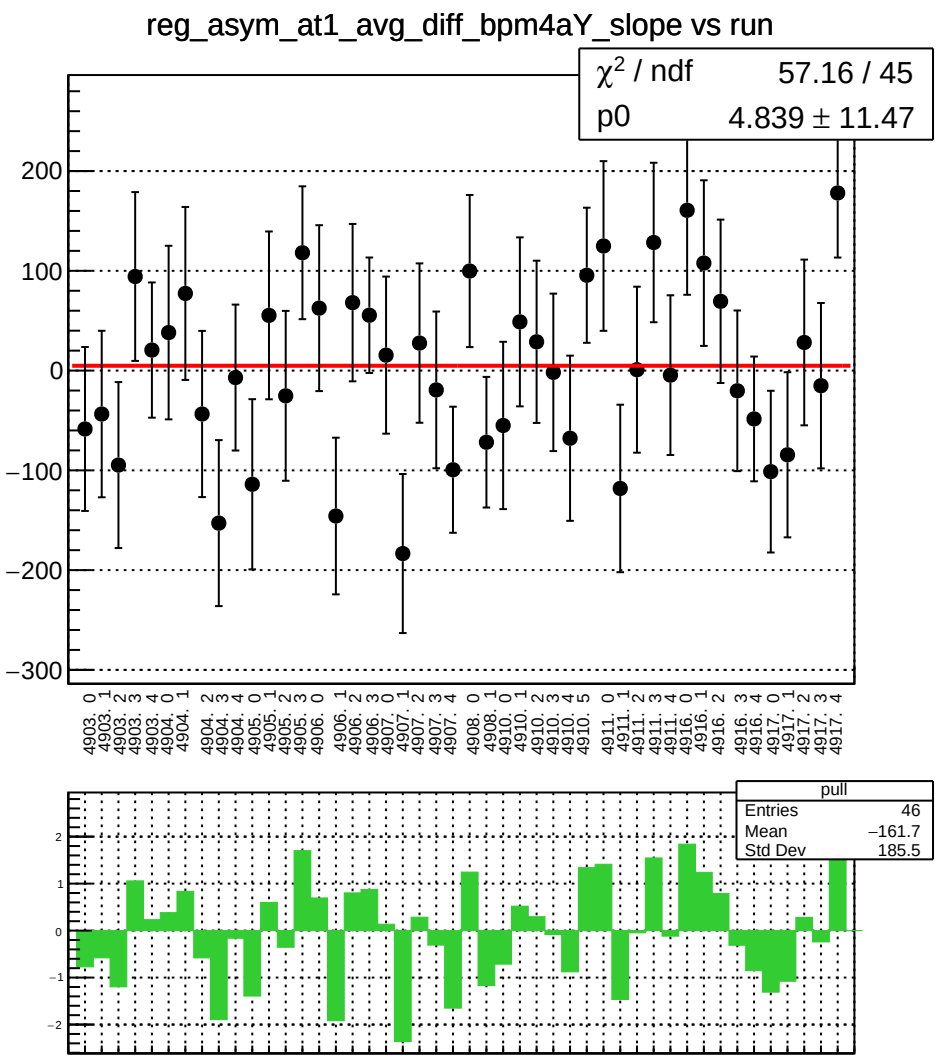

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.41 / 45
p0 −4.334 ± 14.86
pull
Entries 46
Mean 11.69
Std Dev 35.28

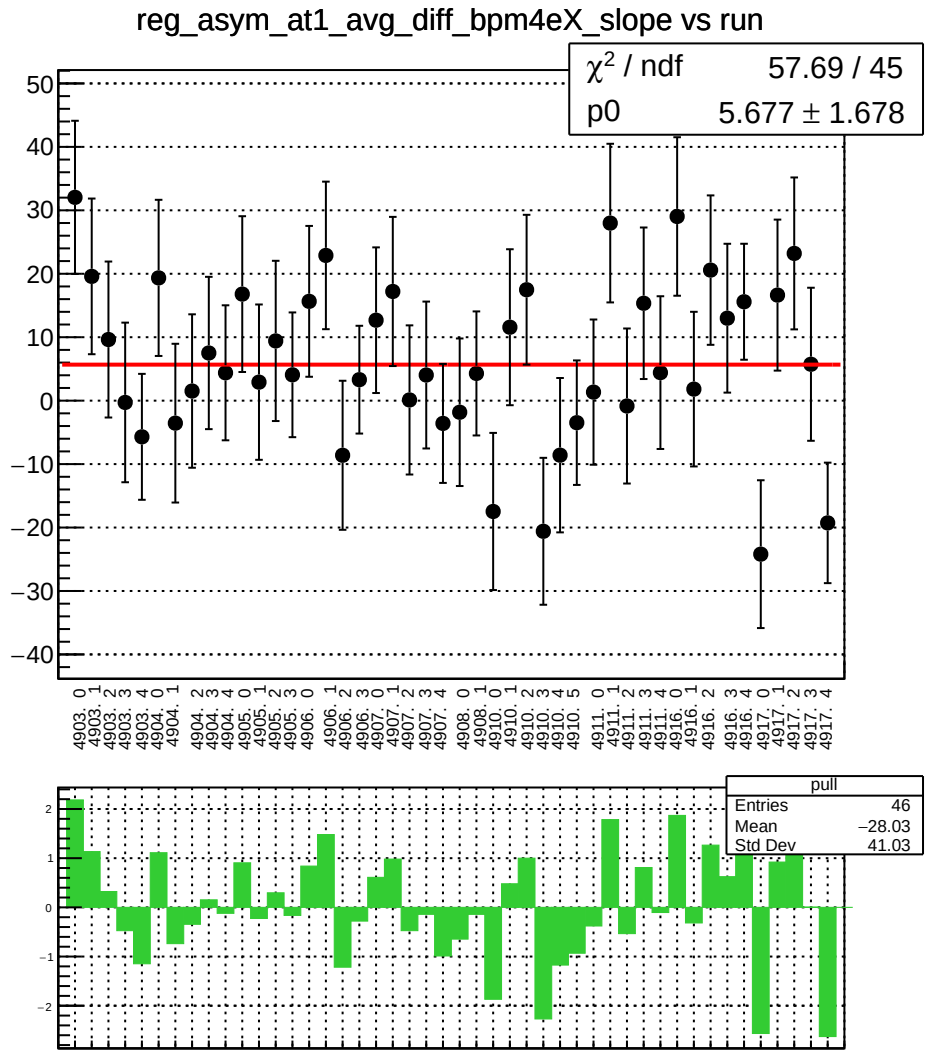

pull1D
Entries 46
Mean 0.02303
Std Dev 1.289

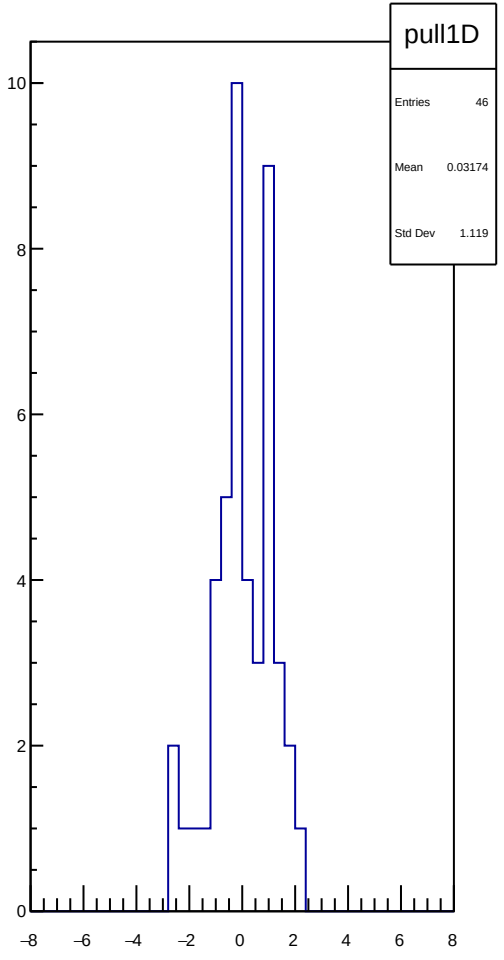

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 67.47 / 45
p0 13.1 ± 2.92
pull
Entries 46
Mean 97.24
Std Dev 58.81

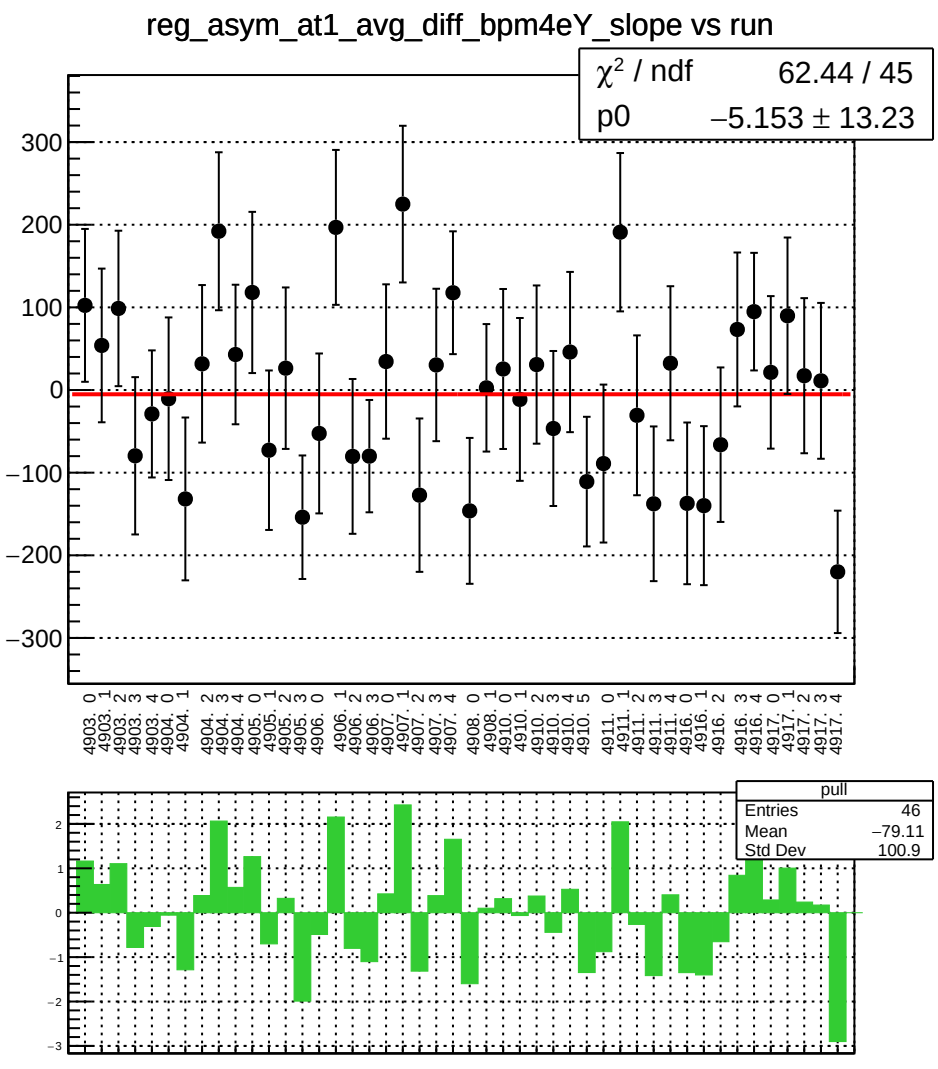

pull1D
Entries 46
Mean 0.01241
Std Dev 1.211

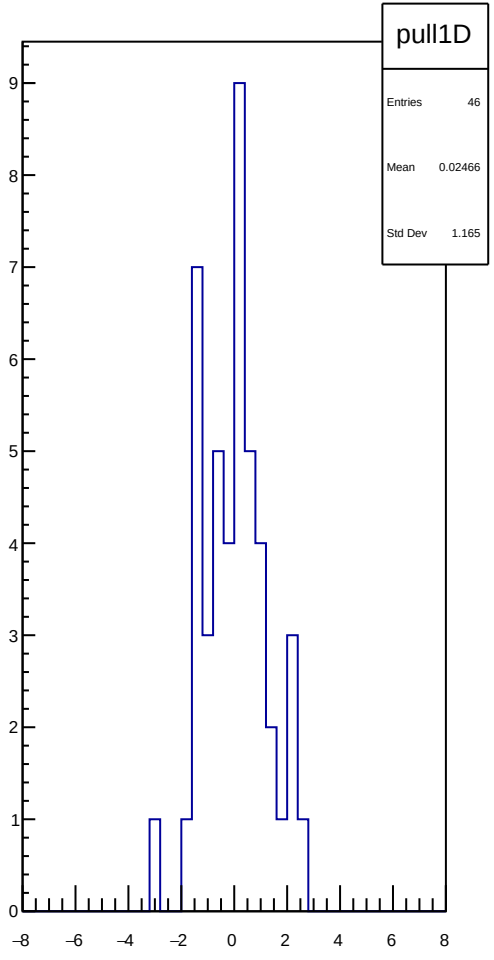

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 55.04 / 45
p0 −11.39 ± 8.245
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −54.46
Std Dev 59.08
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.006403
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

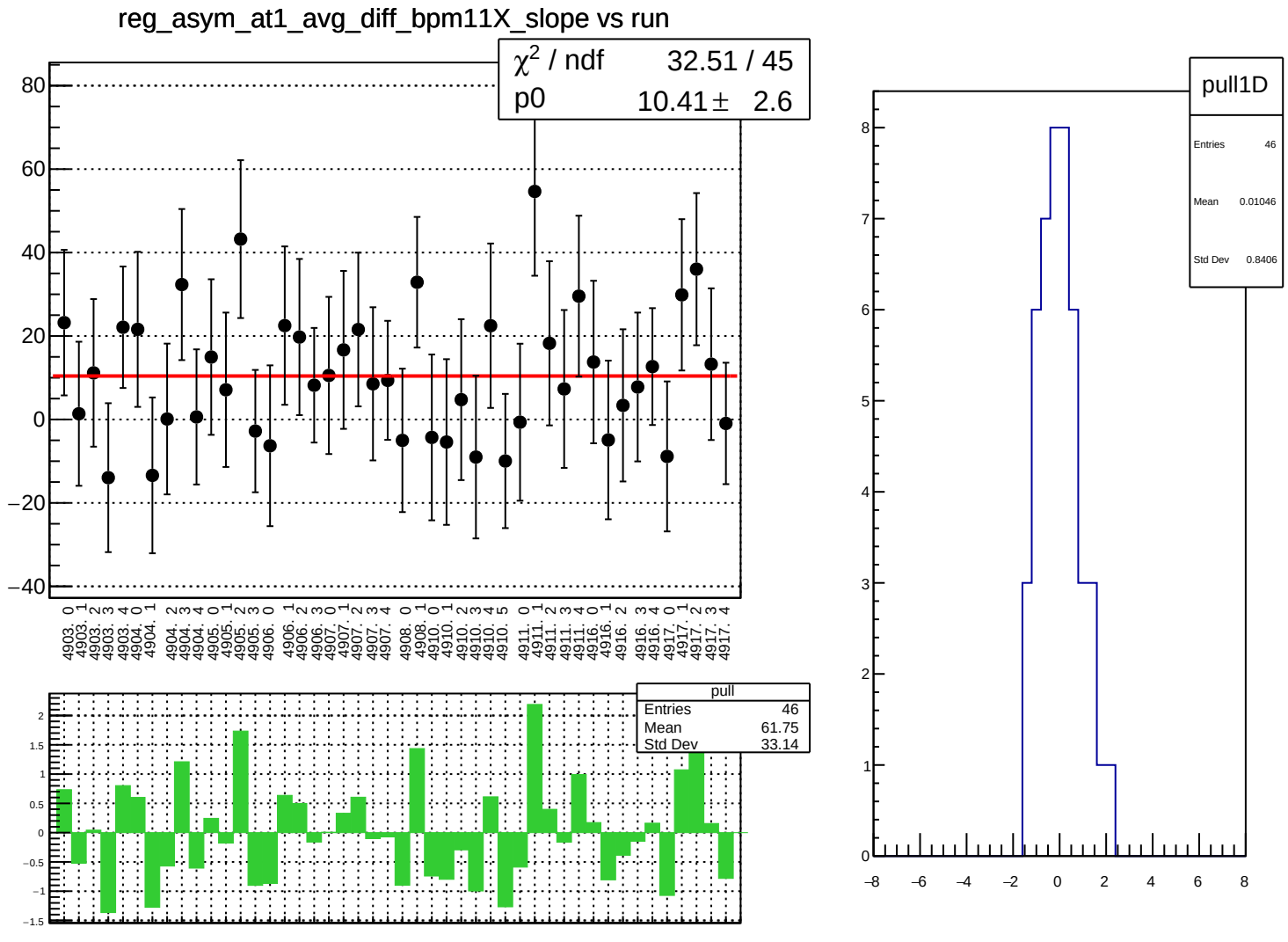

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.16 / 45
p0 4.839 ± 11.47
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −161.7
Std Dev 185.5
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01423
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

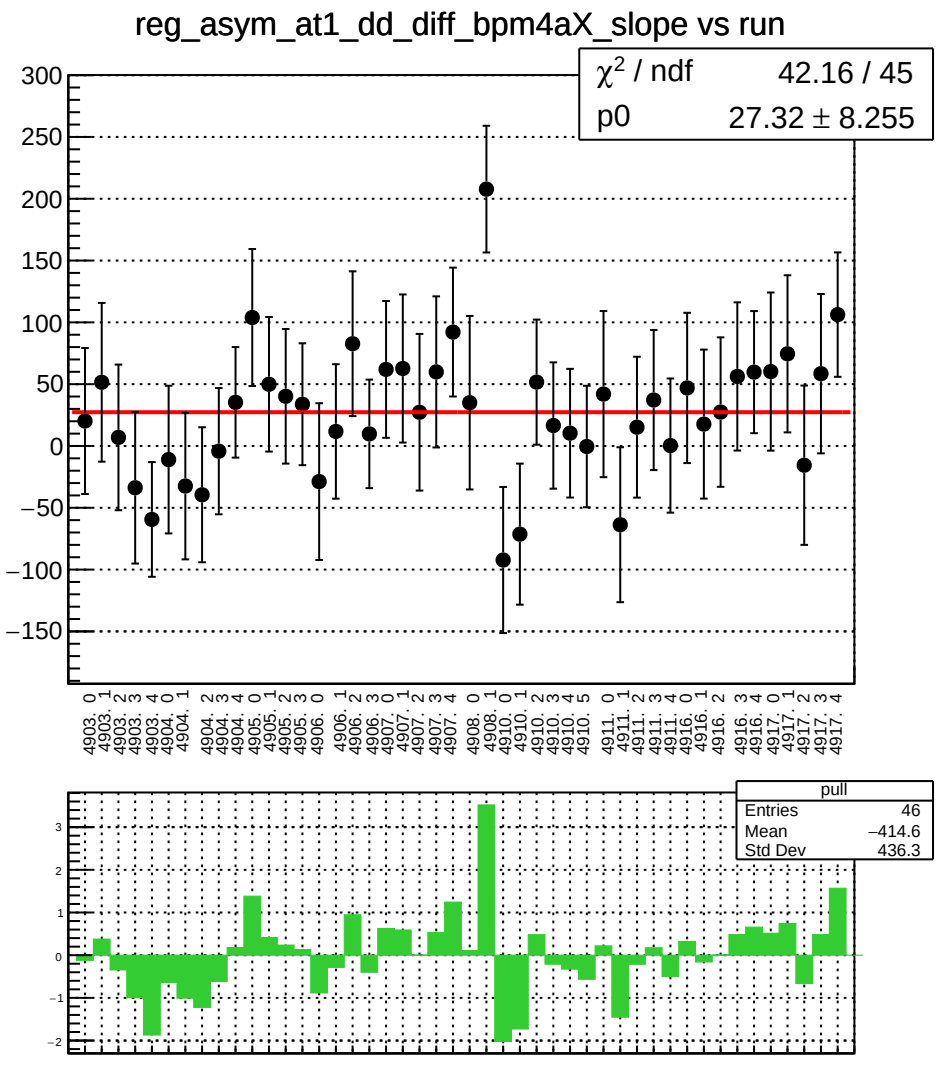

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.69 / 45
p0 5.677 ± 1.678
pull
Entries 46
Mean −28.03
Std Dev 41.03

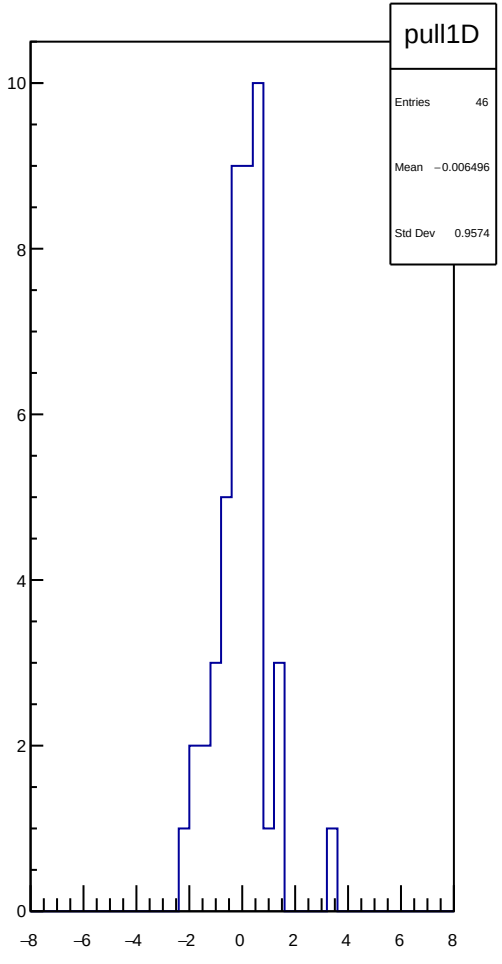

pull1D
Entries 46
Mean 0.03174
Std Dev 1.119

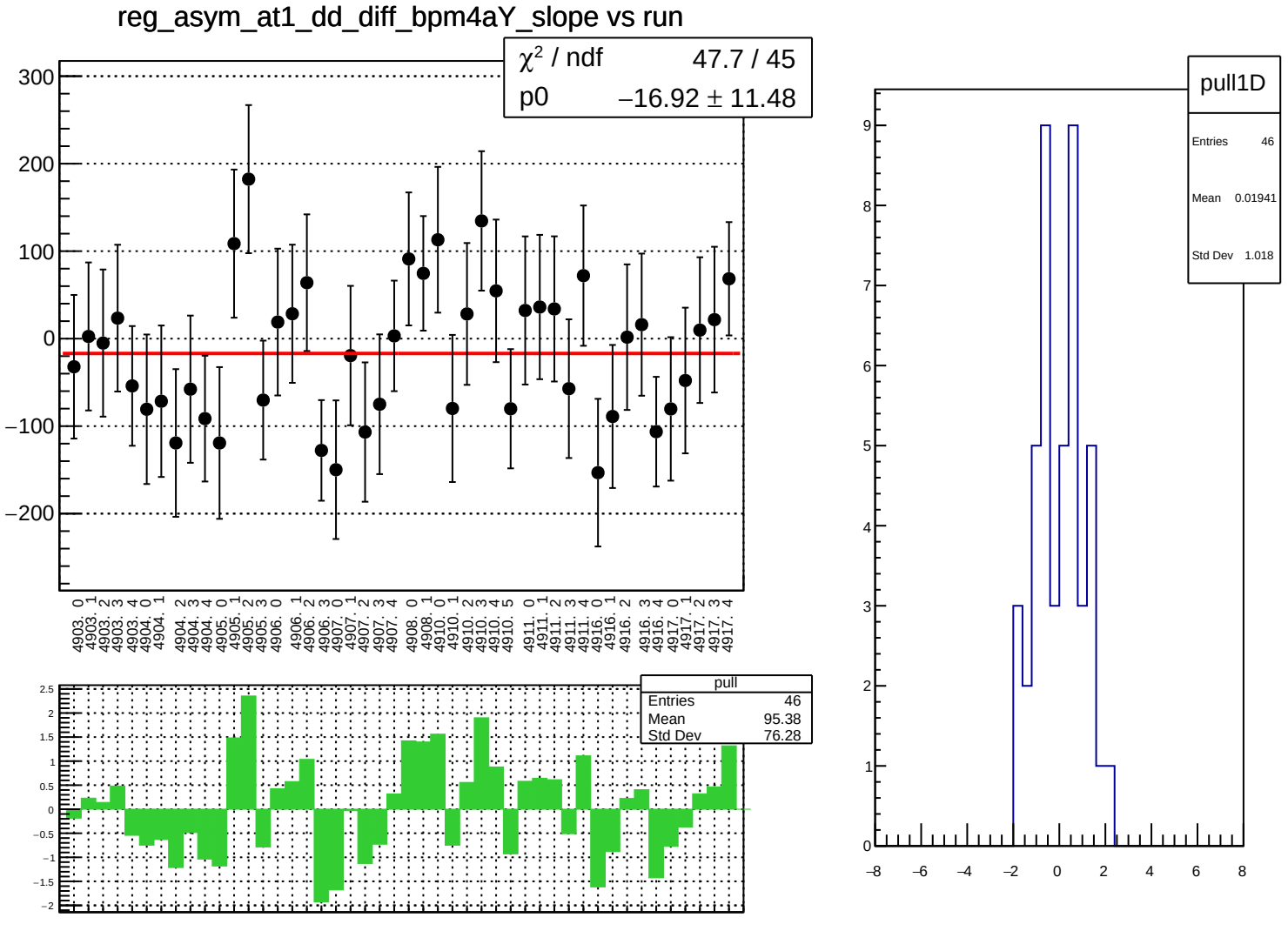

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.44 / 45
p0 −5.153 ± 13.23
pull
Entries 46
Mean −79.11
Std Dev 100.9

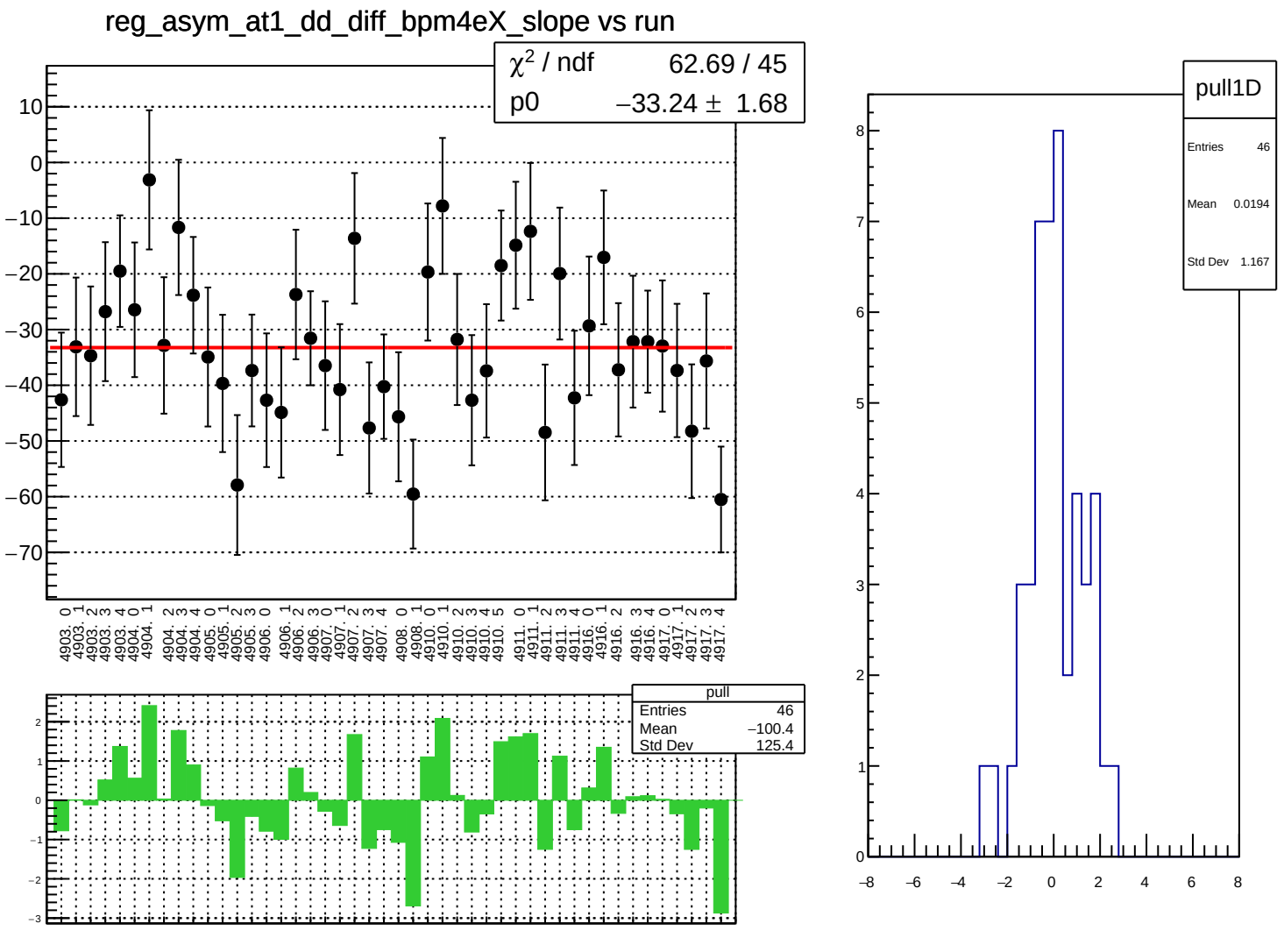

pull1D
Entries 46
Mean 0.02466
Std Dev 1.165

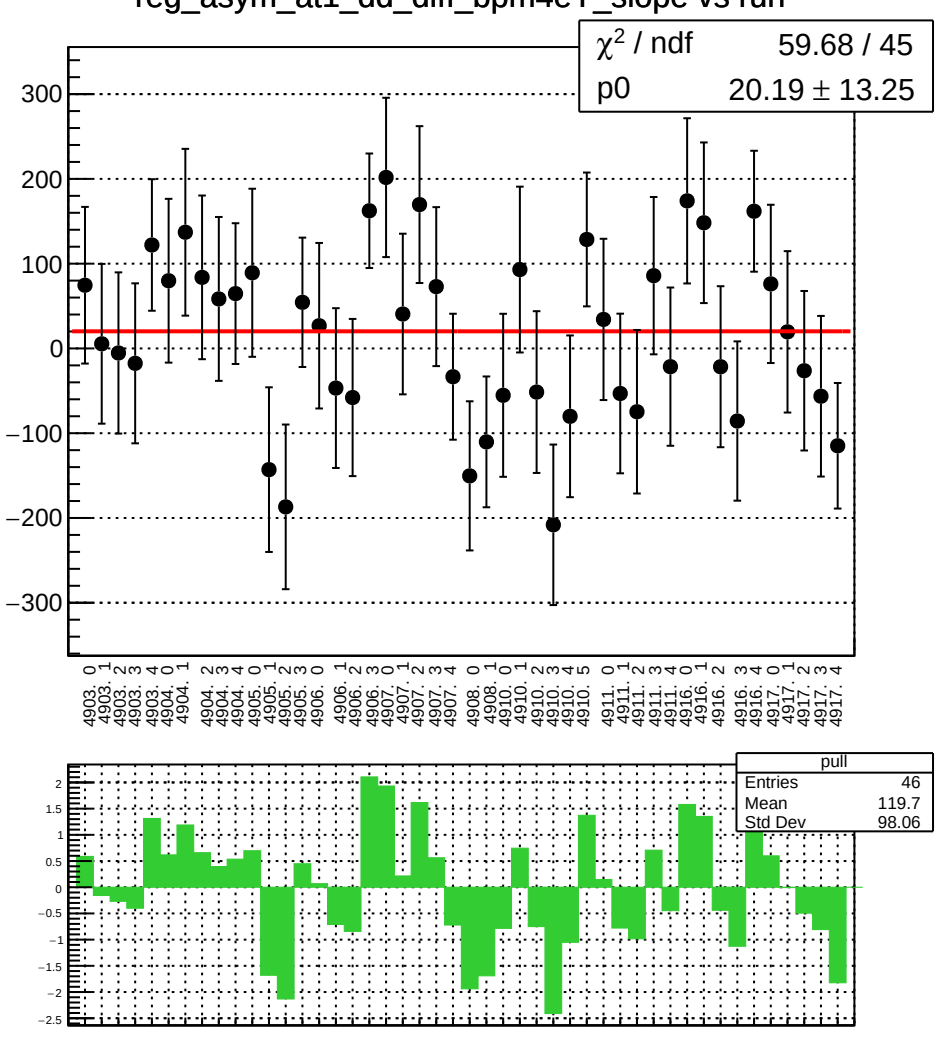

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 32.51 / 45
p0 10.41 ± 2.6
pull
Entries 46
Mean 61.75
Std Dev 33.14
pull1D
Entries 46
Mean 0.01046
Std Dev 0.8406

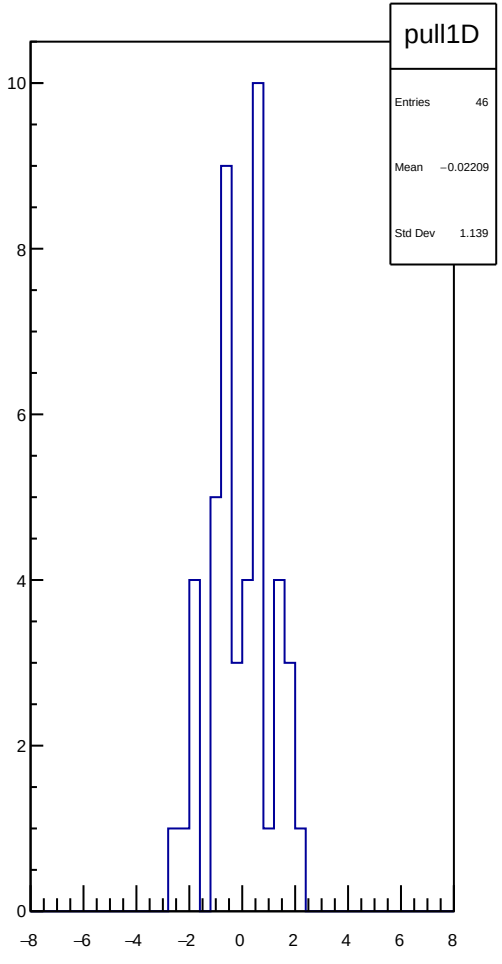

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.16 / 45
p0 27.32 ± 8.255
pull
Entries 46
Mean −414.6
Std Dev 436.3

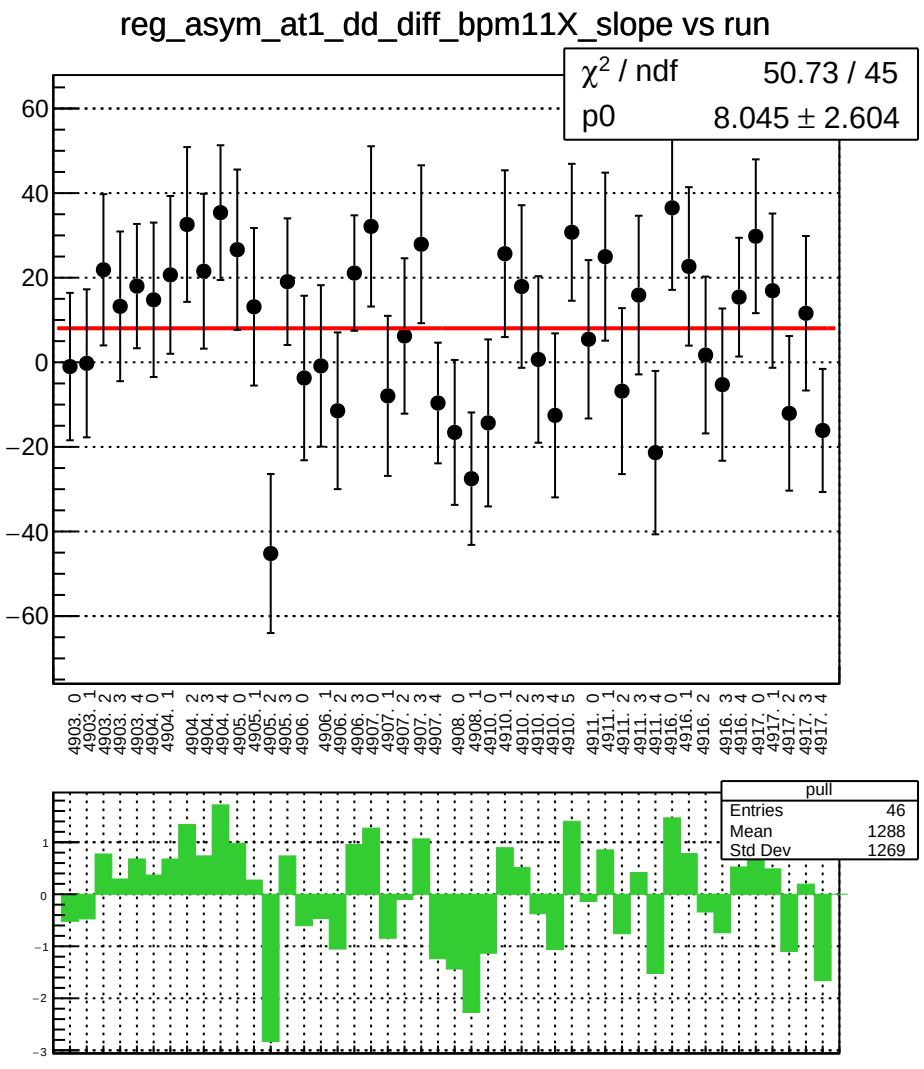

pull1D
Entries 46
Mean −0.006496
Std Dev 0.9574

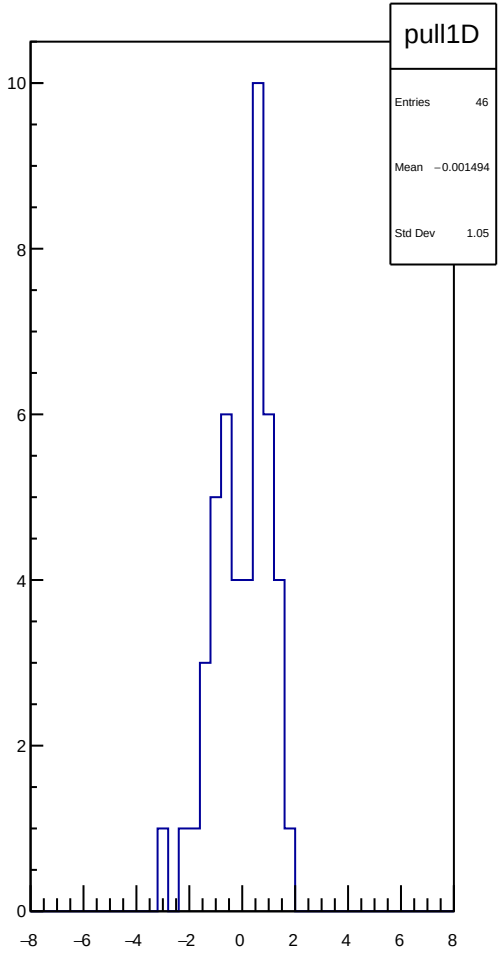

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.7 / 45
p0 −16.92 ± 11.48
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 95.38
Std Dev 76.28
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01941
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

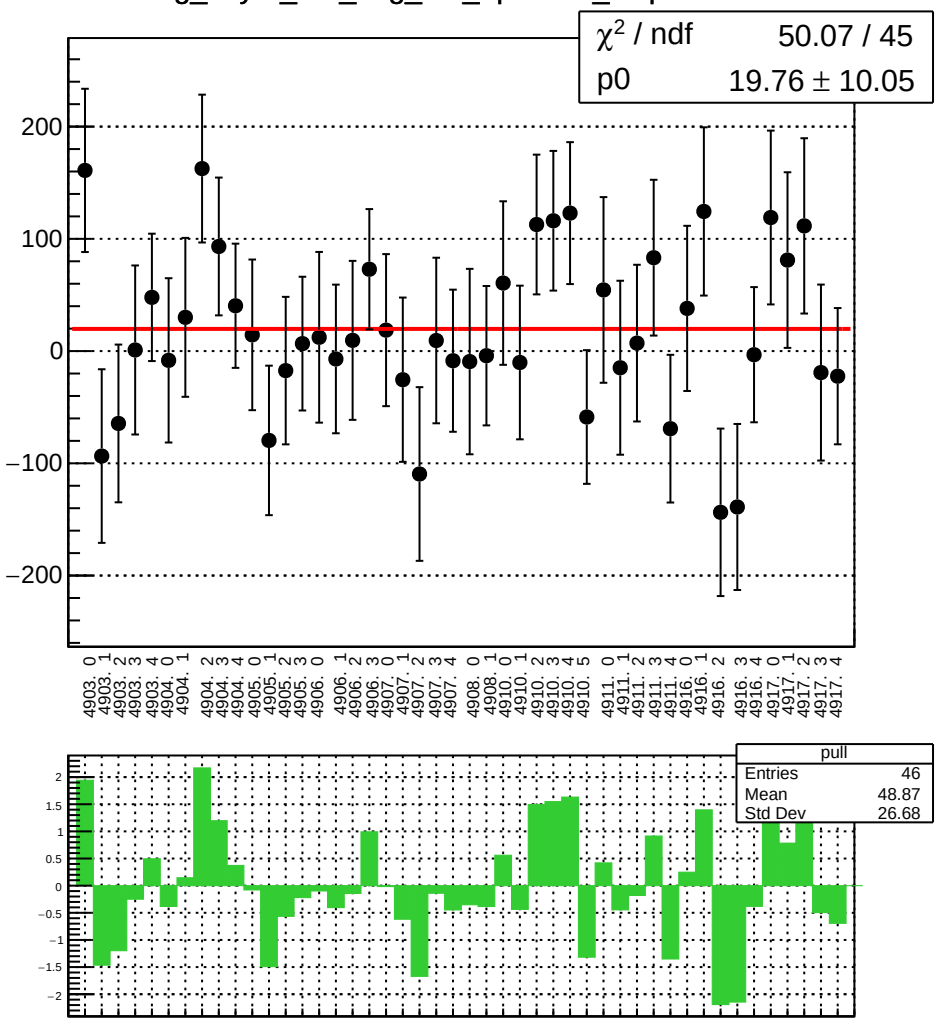

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.69 / 45
p0 −33.24 ± 1.68
pull
Entries 46
Mean −100.4
Std Dev 125.4
pull1D
Entries 46
Mean 0.0194
Std Dev 1.167

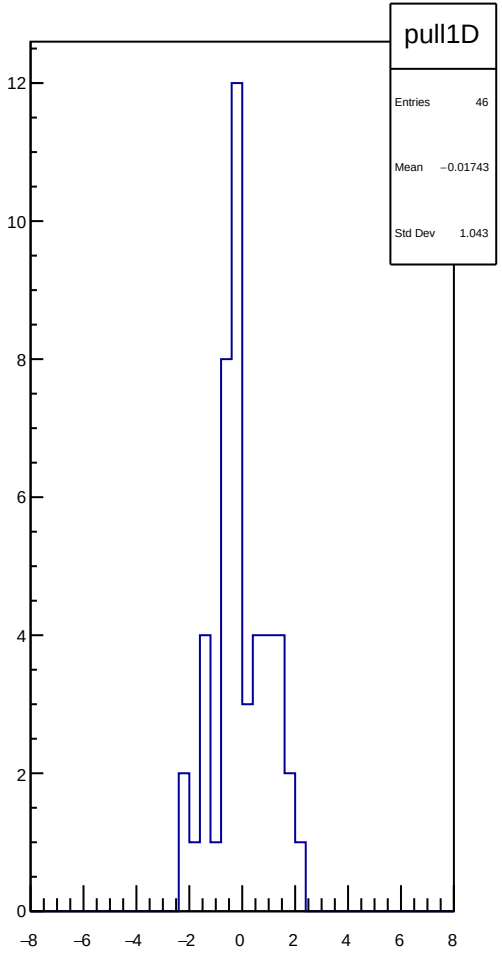

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.68 / 45
p0 20.19 ± 13.25
pull
Entries 46
Mean 119.7
Std Dev 98.06

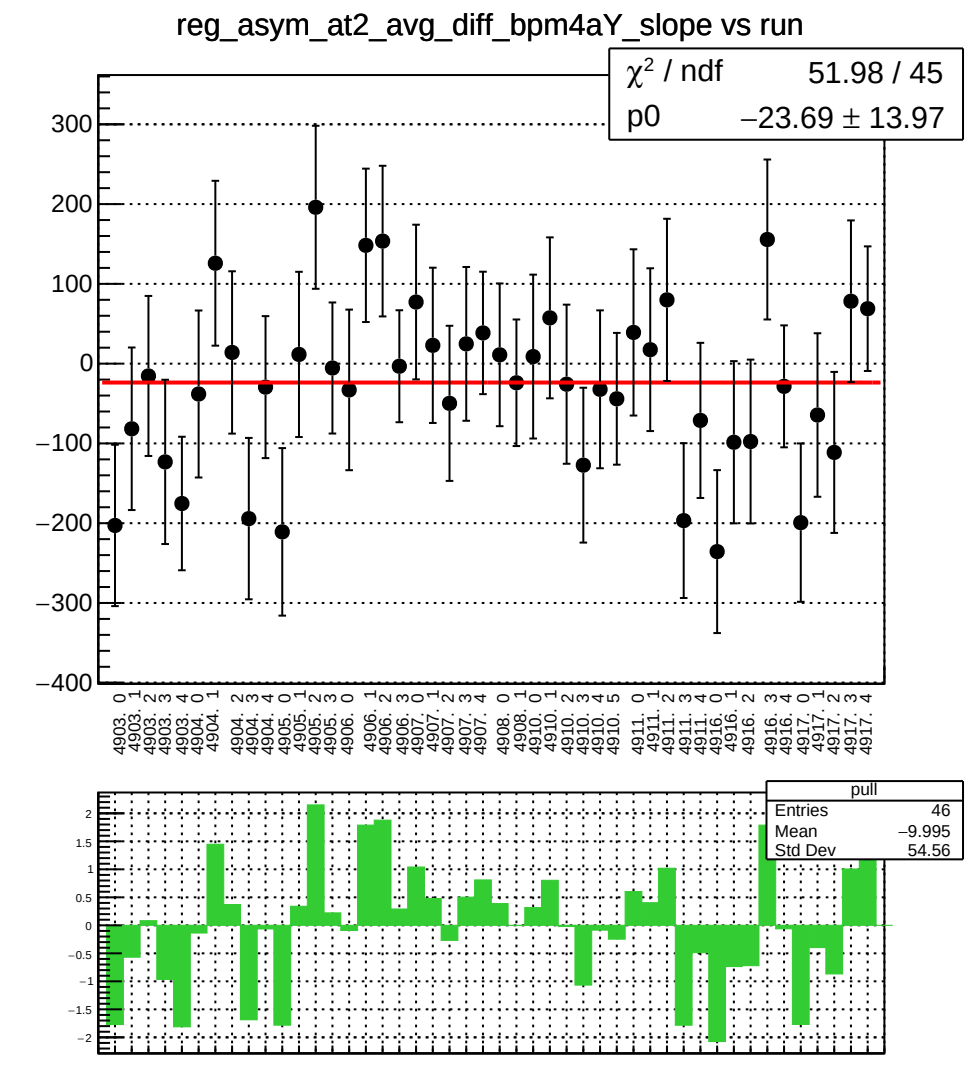

pull1D
Entries 46
Mean −0.02209
Std Dev 1.139

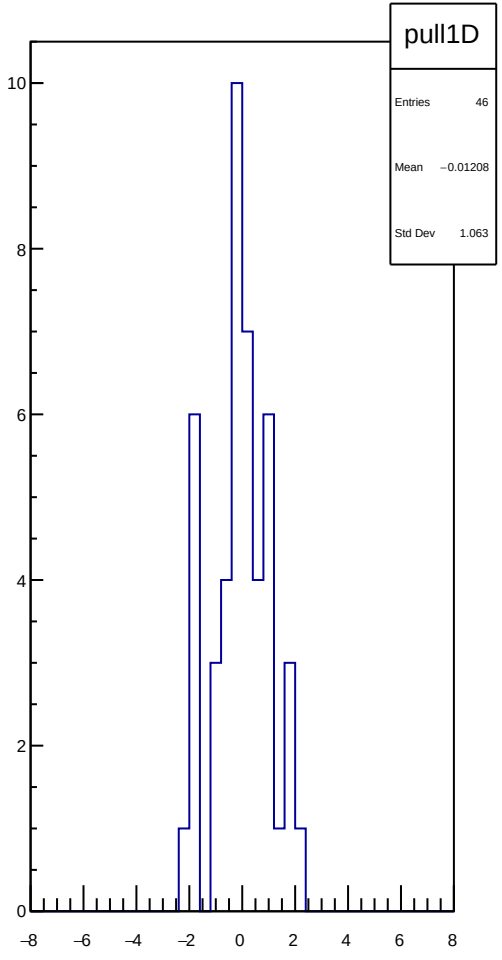

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 50.73 / 45
p0 8.045 ± 2.604
pull
Entries 46
Mean 1288
Std Dev 1269

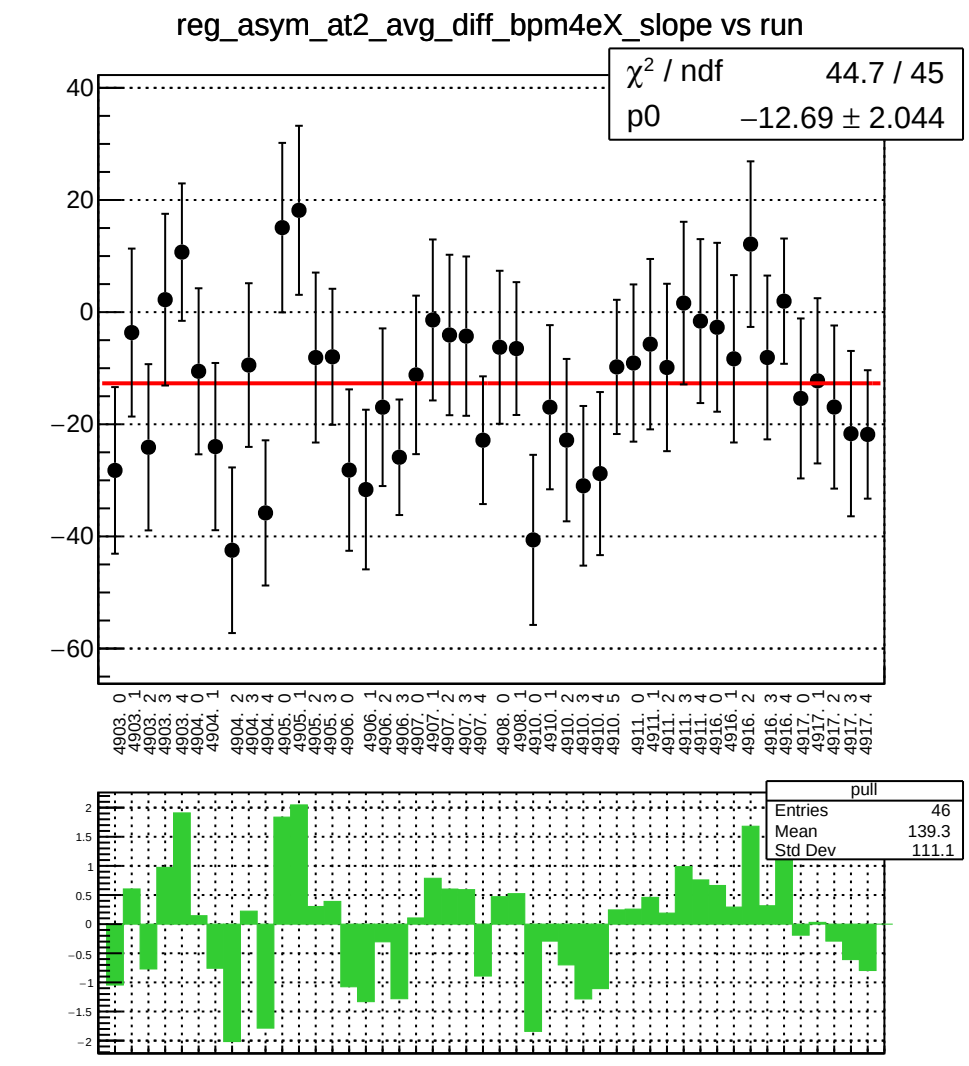

pull1D
Entries 46
Mean −0.001494
Std Dev 1.05

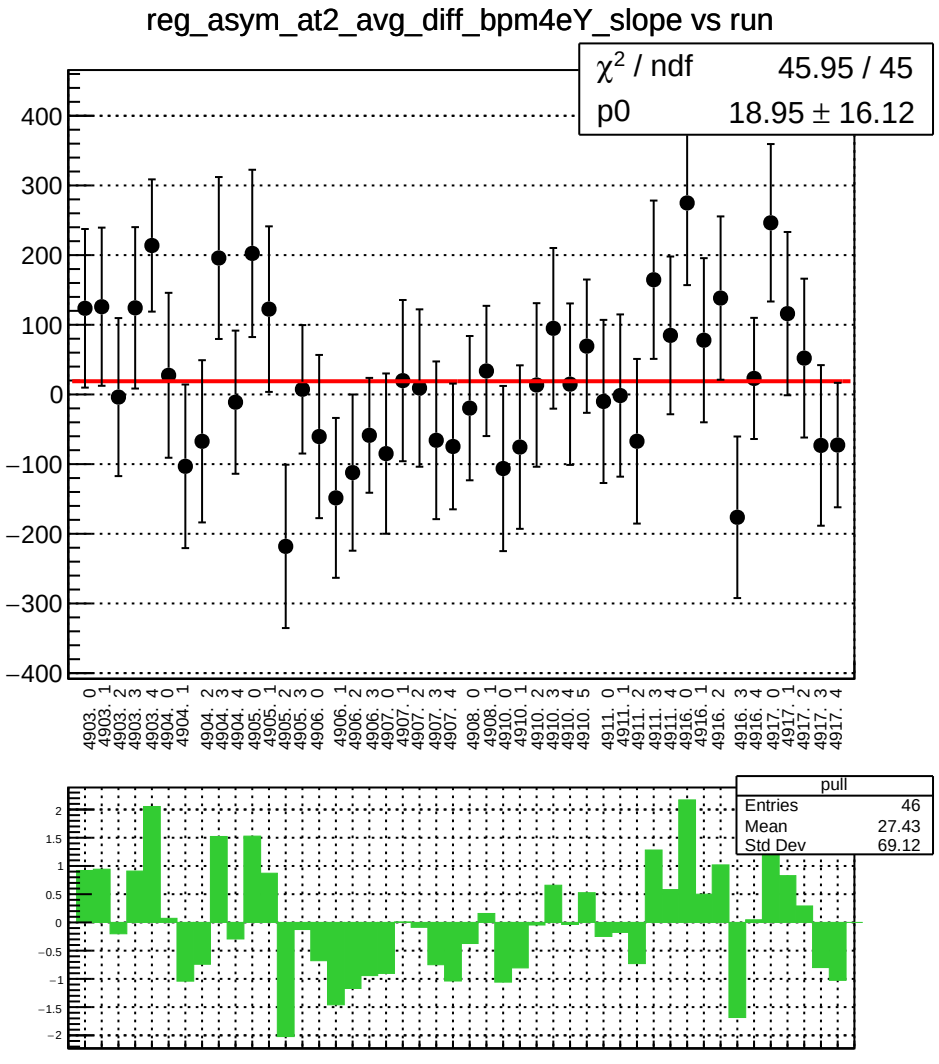

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.07 / 45
p0 19.76 ± 10.05
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 48.87
Std Dev 26.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

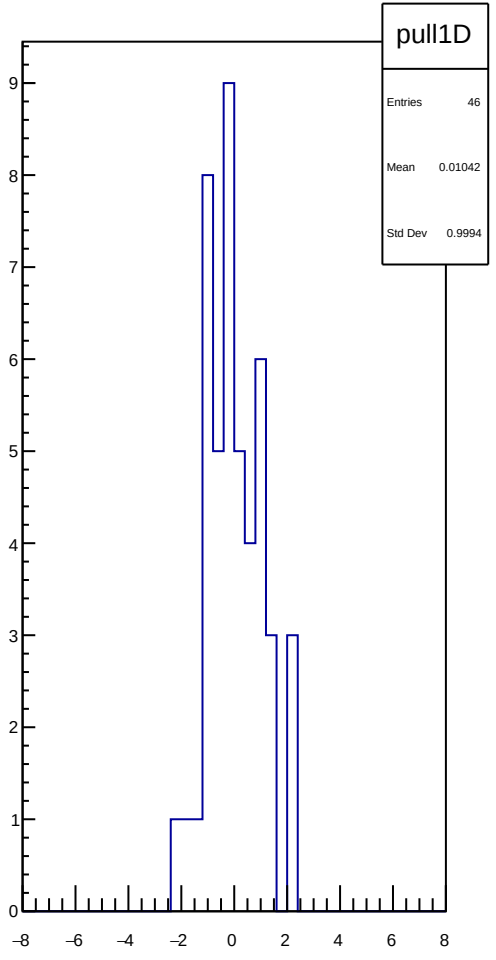

pull1D
Entries 46
Mean −0.01743
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

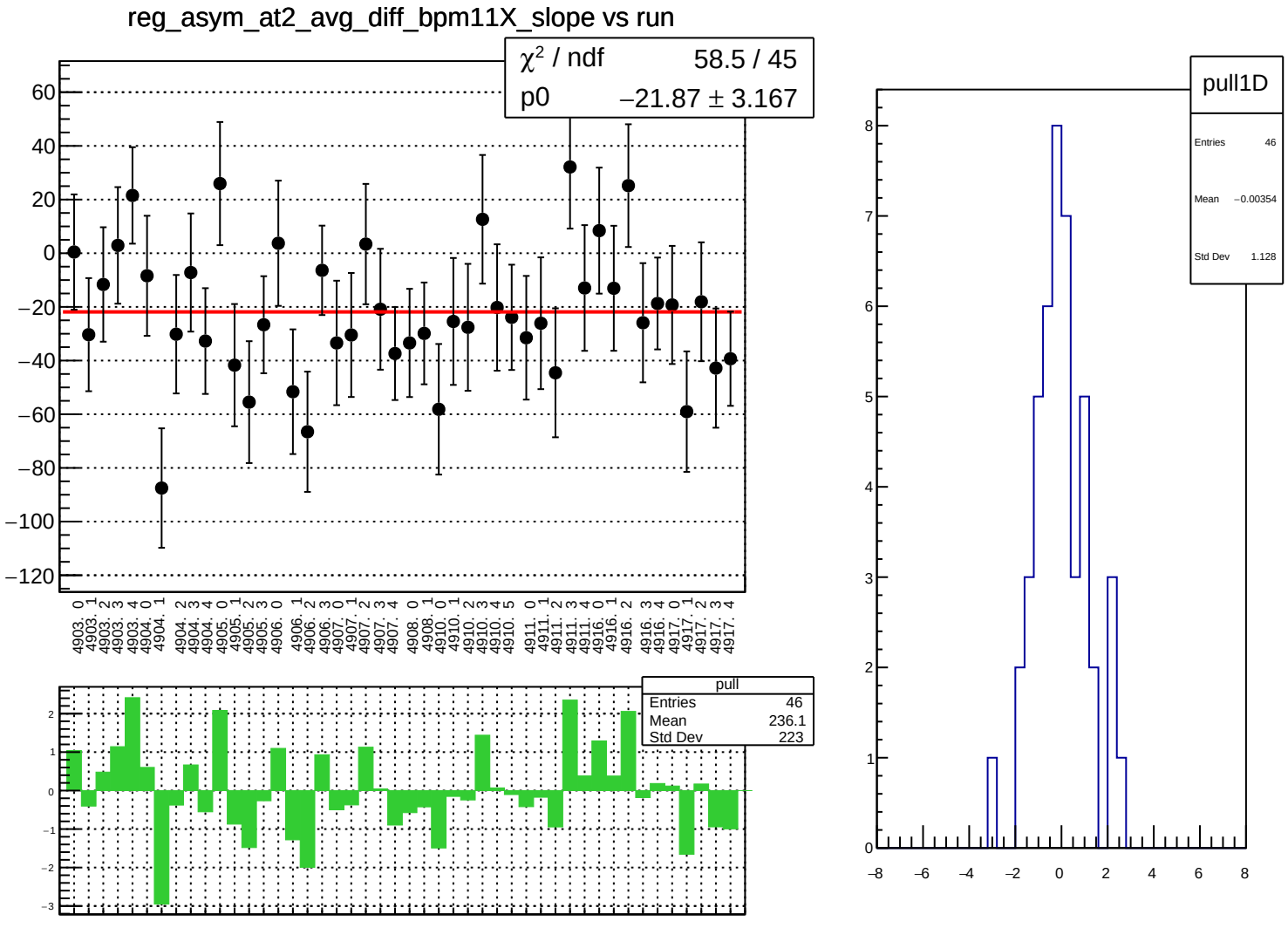

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.98 / 45
p0 −23.69 ± 13.97
pull
Entries 46
Mean −9.995
Std Dev 54.56

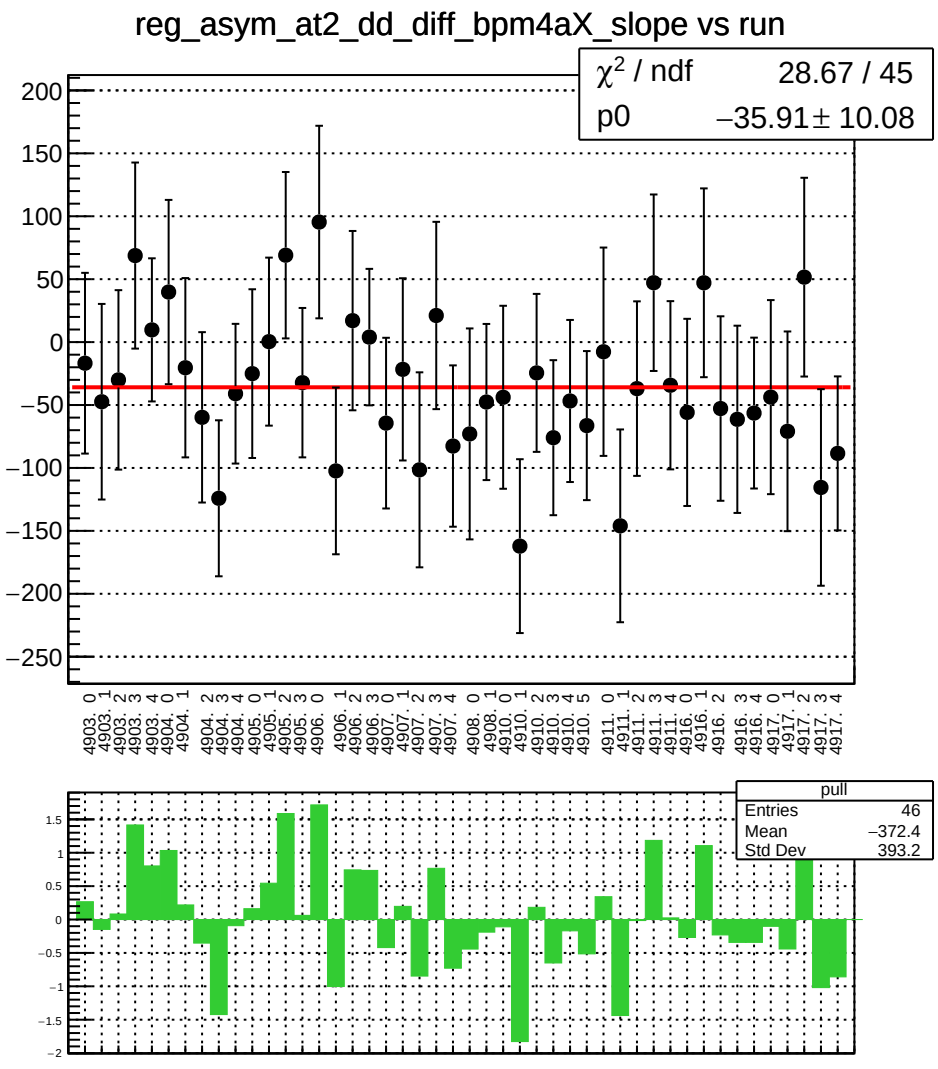

pull1D
Entries 46
Mean −0.01208
Std Dev 1.063

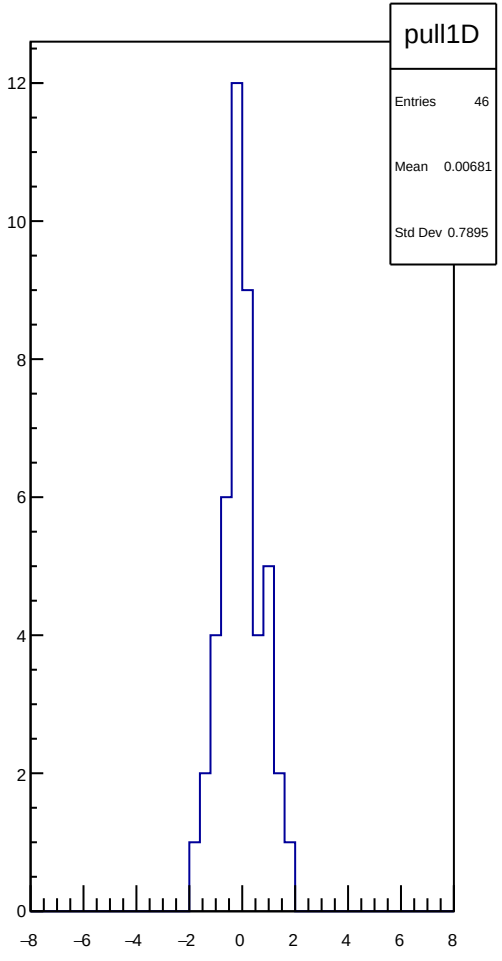

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.7 / 45
p0 −12.69 ± 2.044
40
20
0
−20
−40
−60
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 139.3
Std Dev 111.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007542
Std Dev 0.9857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

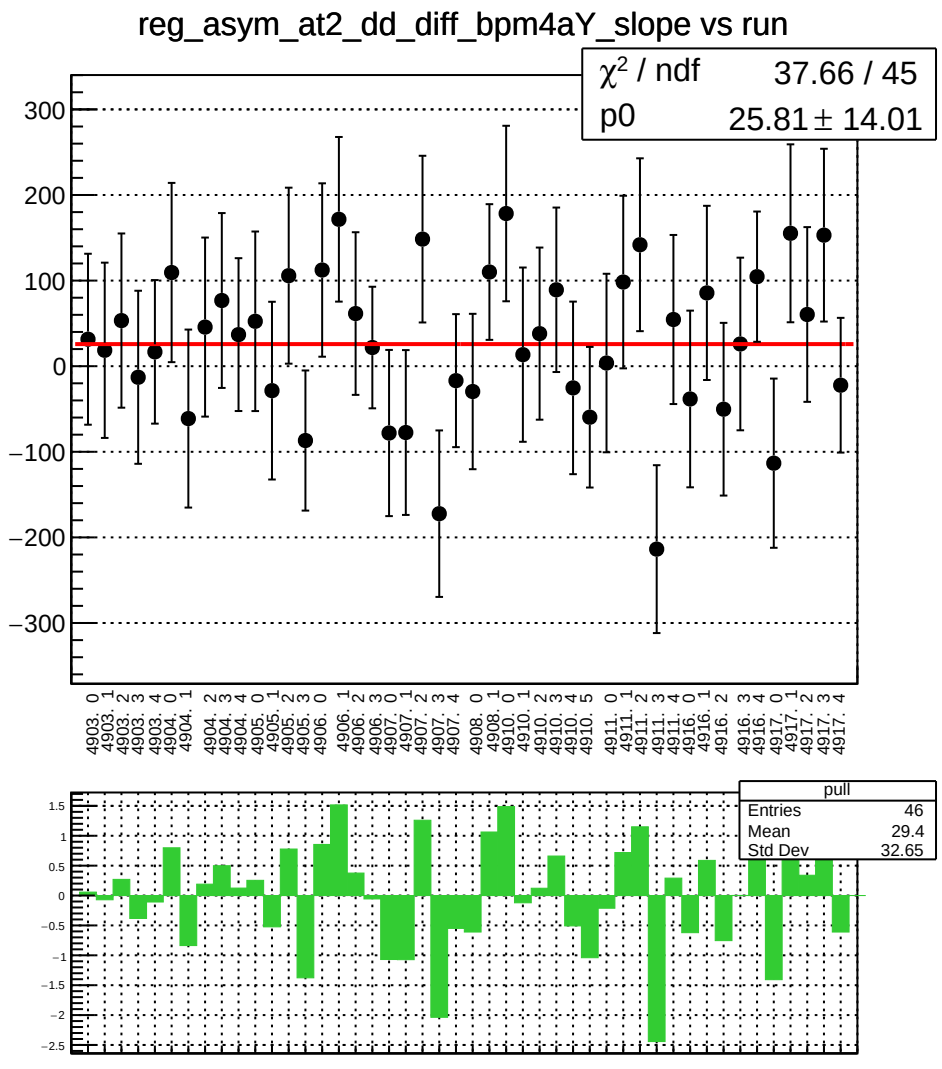

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.95 / 45
p0 18.95 ± 16.12
pull
Entries 46
Mean 27.43
Std Dev 69.12

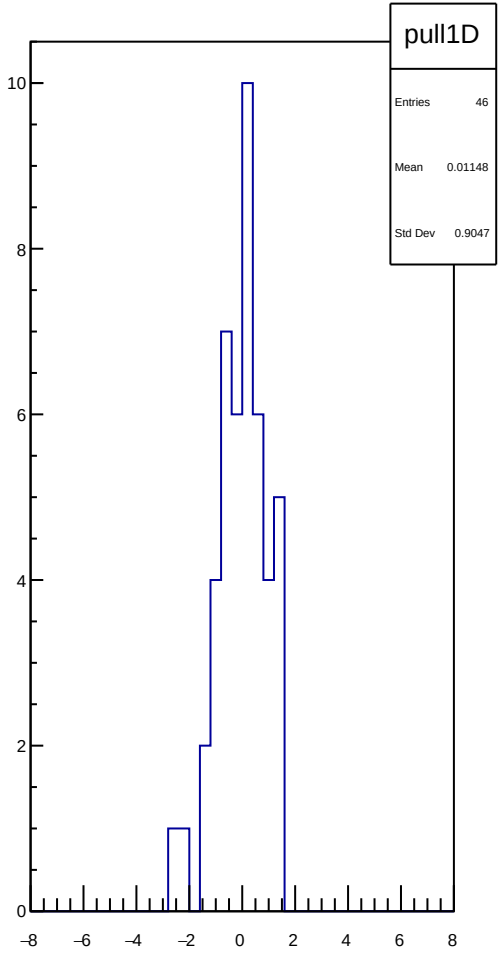

pull1D
Entries 46
Mean 0.01042
Std Dev 0.9994

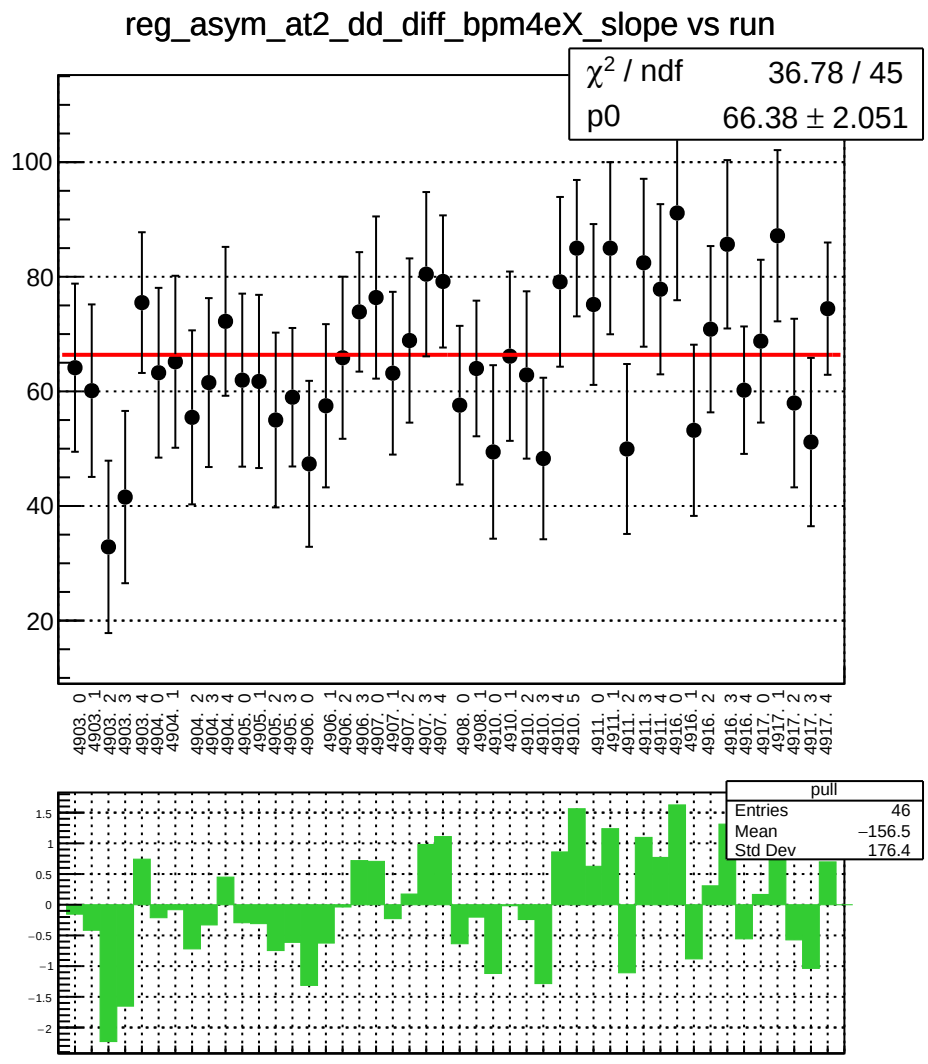

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 58.5 / 45
p0 −21.87 ± 3.167
pull
Entries 46
Mean 236.1
Std Dev 223
pull1D
Entries 46
Mean −0.00354
Std Dev 1.128

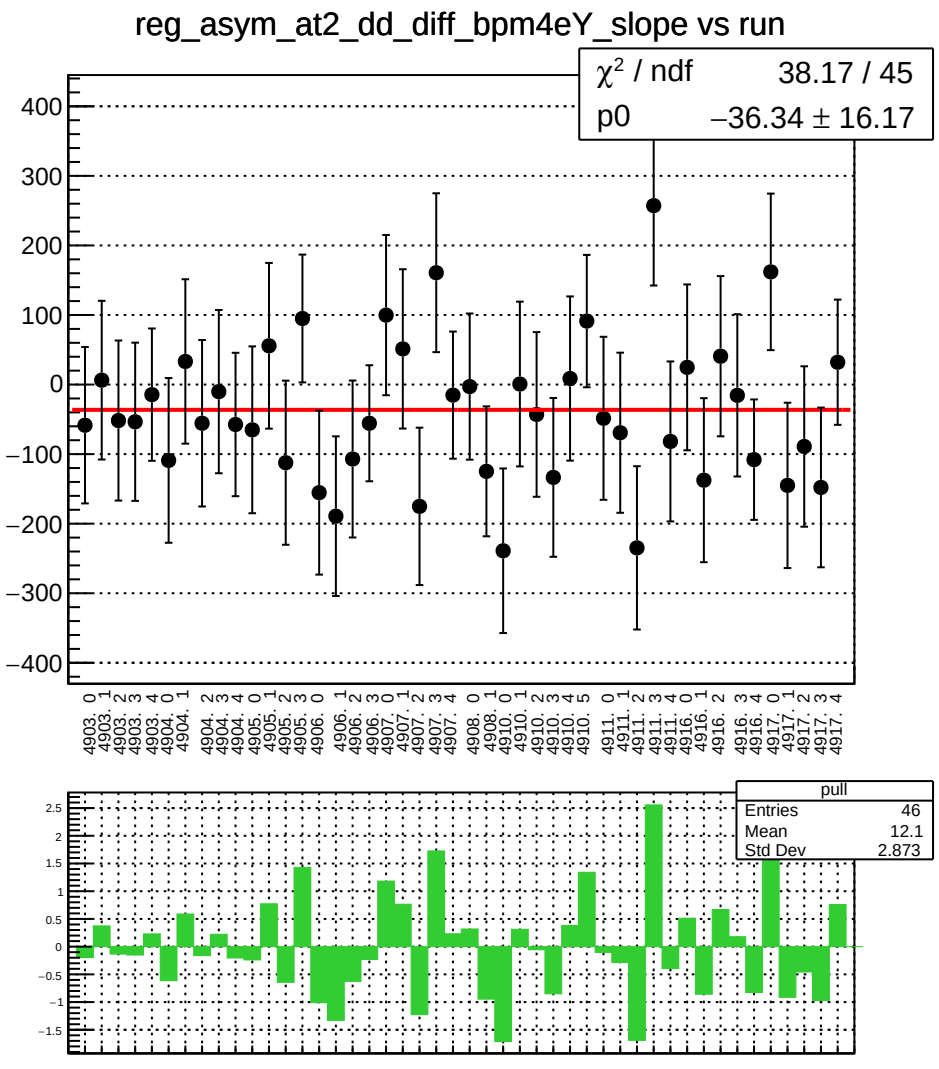

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.67 / 45
p0 −35.91 ± 10.08
pull
Entries 46
Mean −372.4
Std Dev 393.2

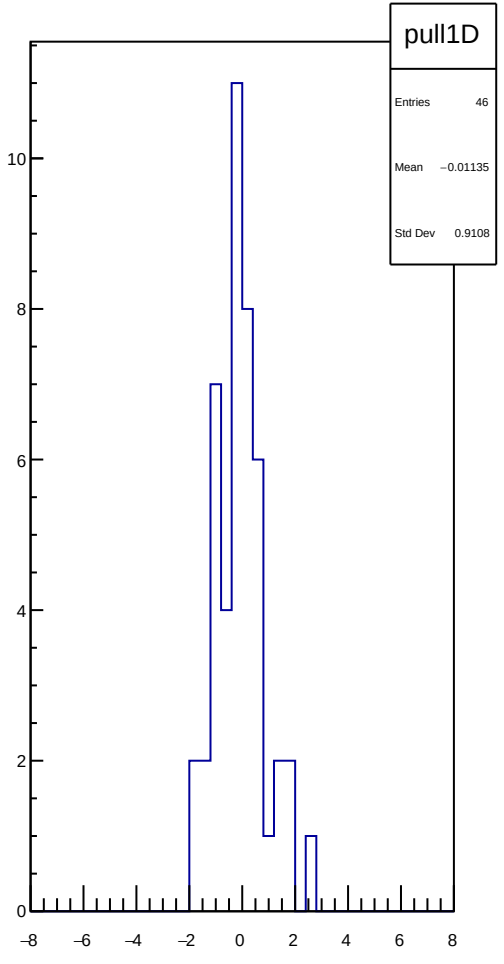

pull1D
Entries 46
Mean 0.00681
Std Dev 0.7895

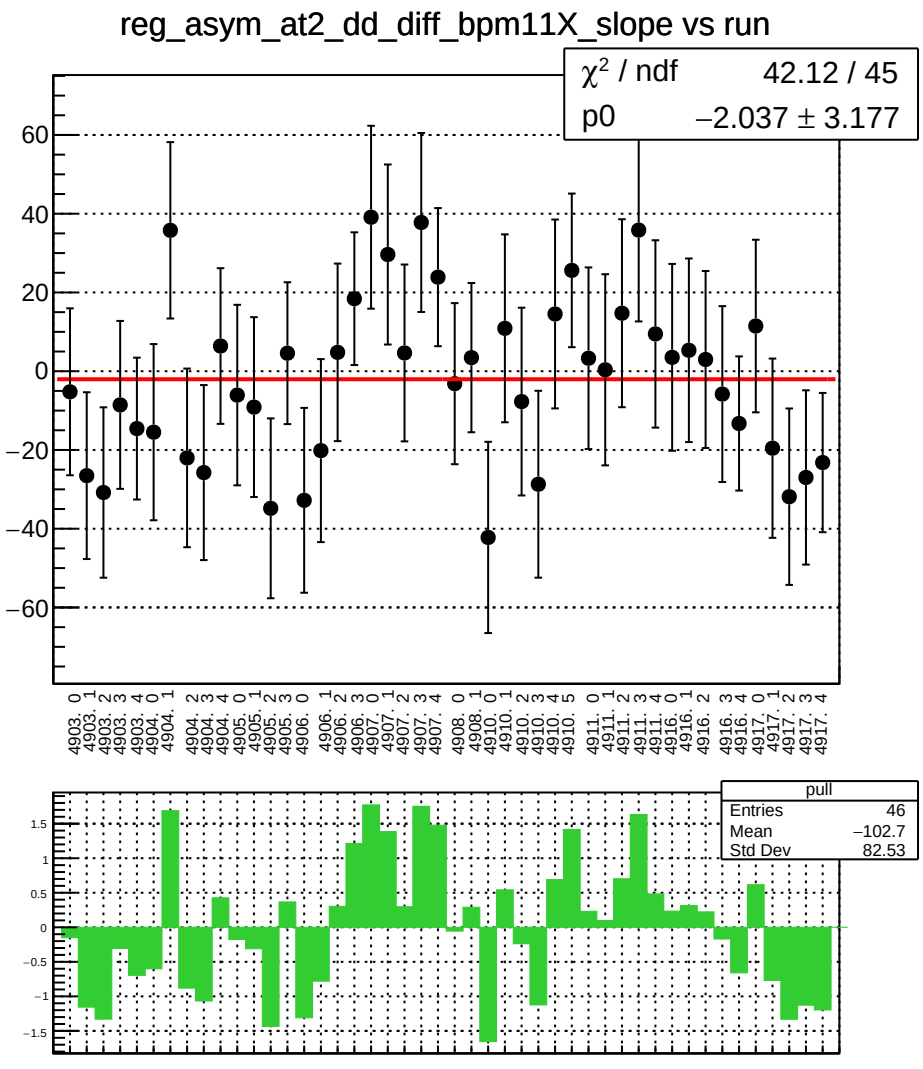

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.66 / 45
p0 25.81 ± 14.01
pull
Entries 46
Mean 29.4
Std Dev 32.65

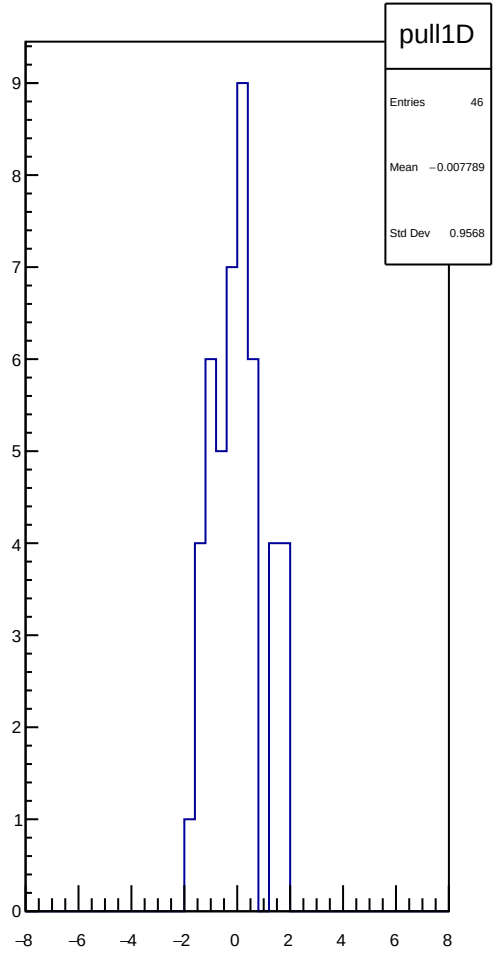

pull1D
Entries 46
Mean 0.01148
Std Dev 0.9047

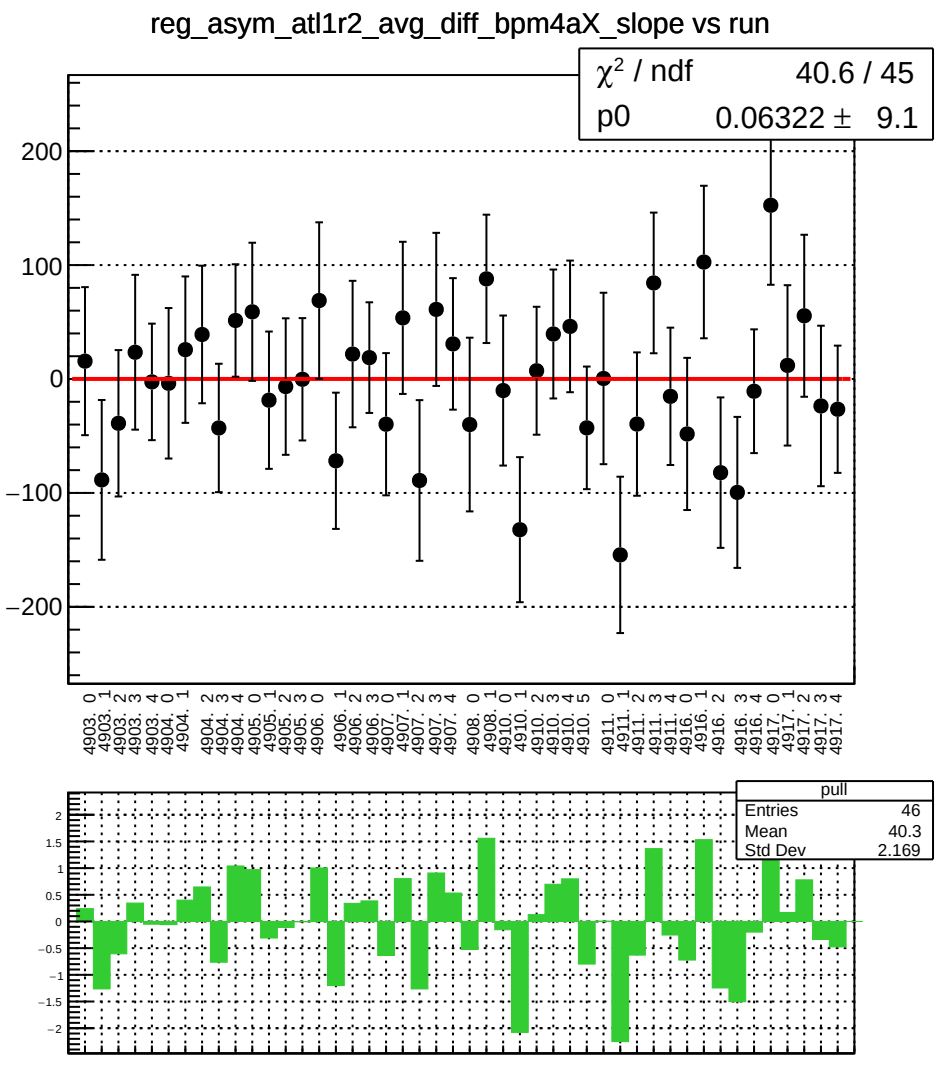

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.78 / 45
p0 66.38 ± 2.051
100
80
60
40
20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −156.5
Std Dev 176.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0231
Std Dev 0.8939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

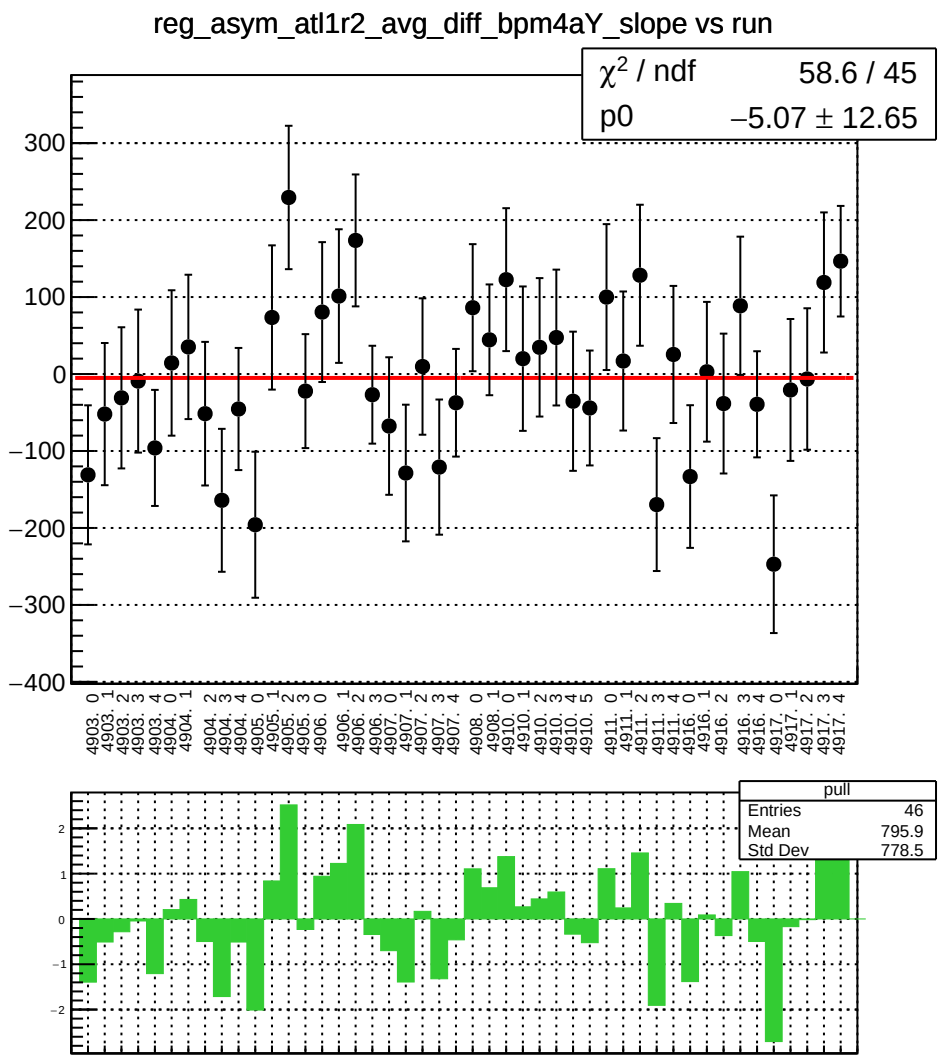

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.17 / 45
p0 −36.34 ± 16.17
pull
Entries 46
Mean 12.1
Std Dev 2.873

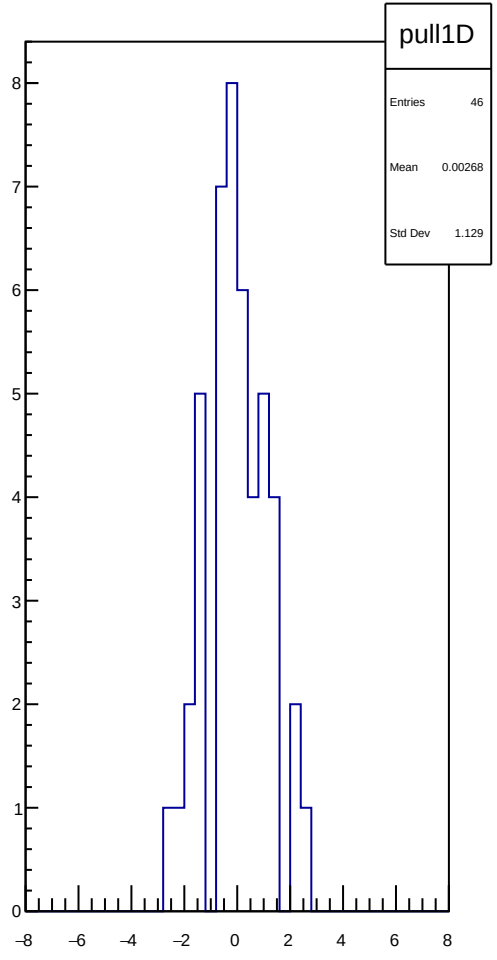

pull1D
Entries 46
Mean −0.01135
Std Dev 0.9108

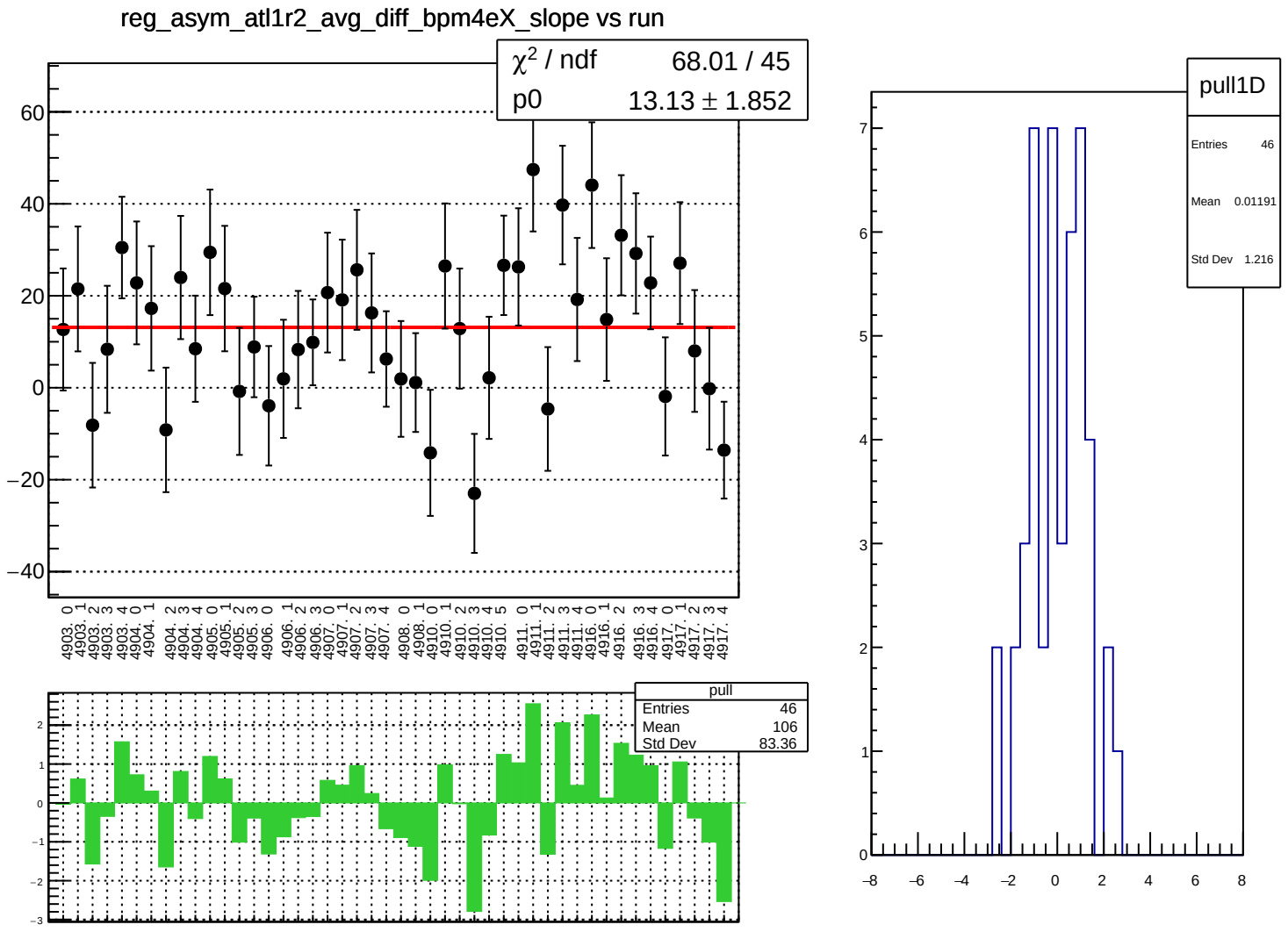

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 42.12 / 45
p0 −2.037 ± 3.177
pull
Entries 46
Mean −102.7
Std Dev 82.53

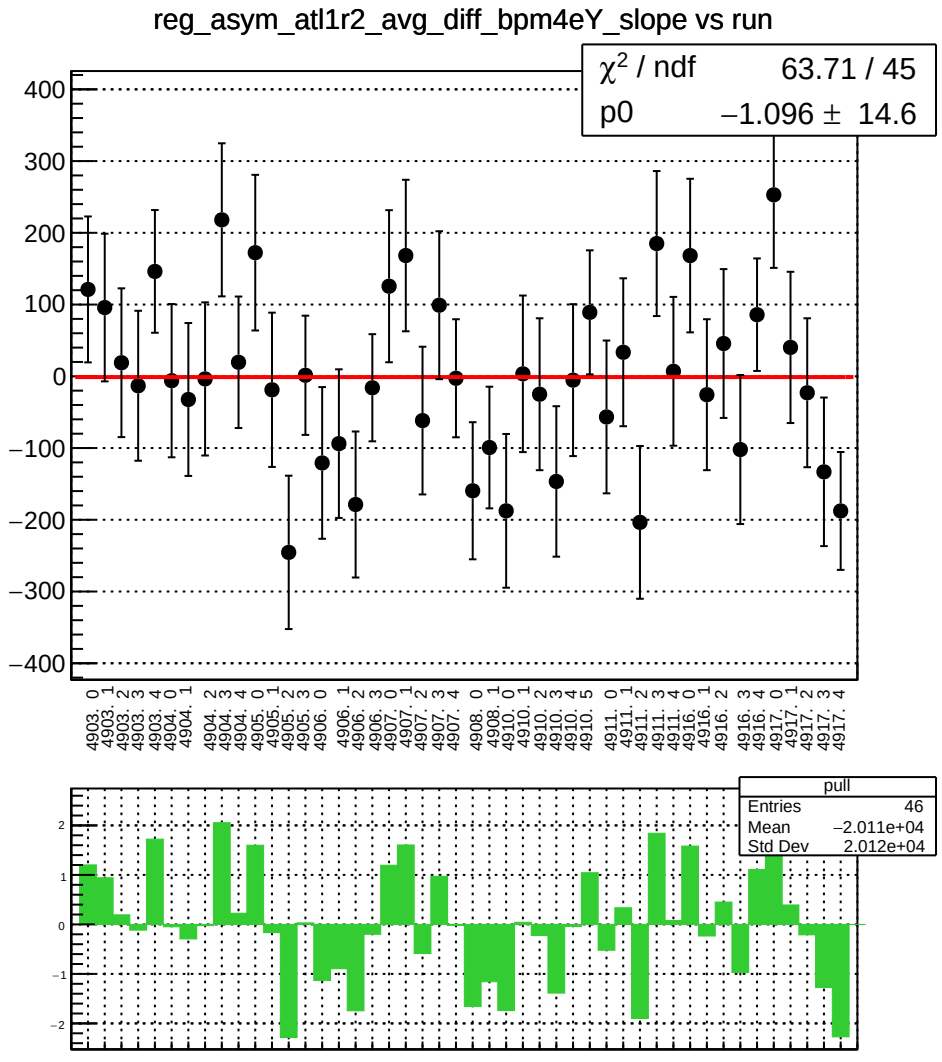

pull1D
Entries 46
Mean −0.007789
Std Dev 0.9568

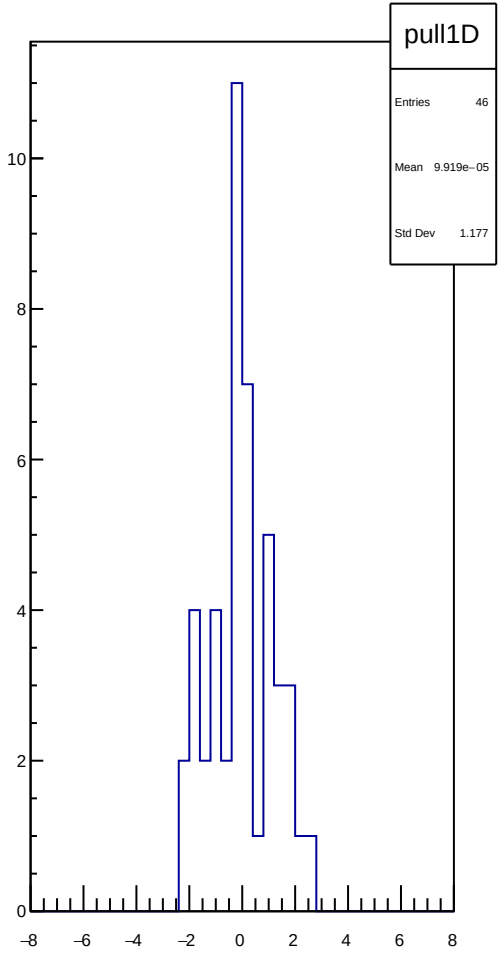

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.6 / 45
p0 0.06322 ± 9.1
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 40.3
Std Dev 2.169
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01326
Std Dev 0.9394
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

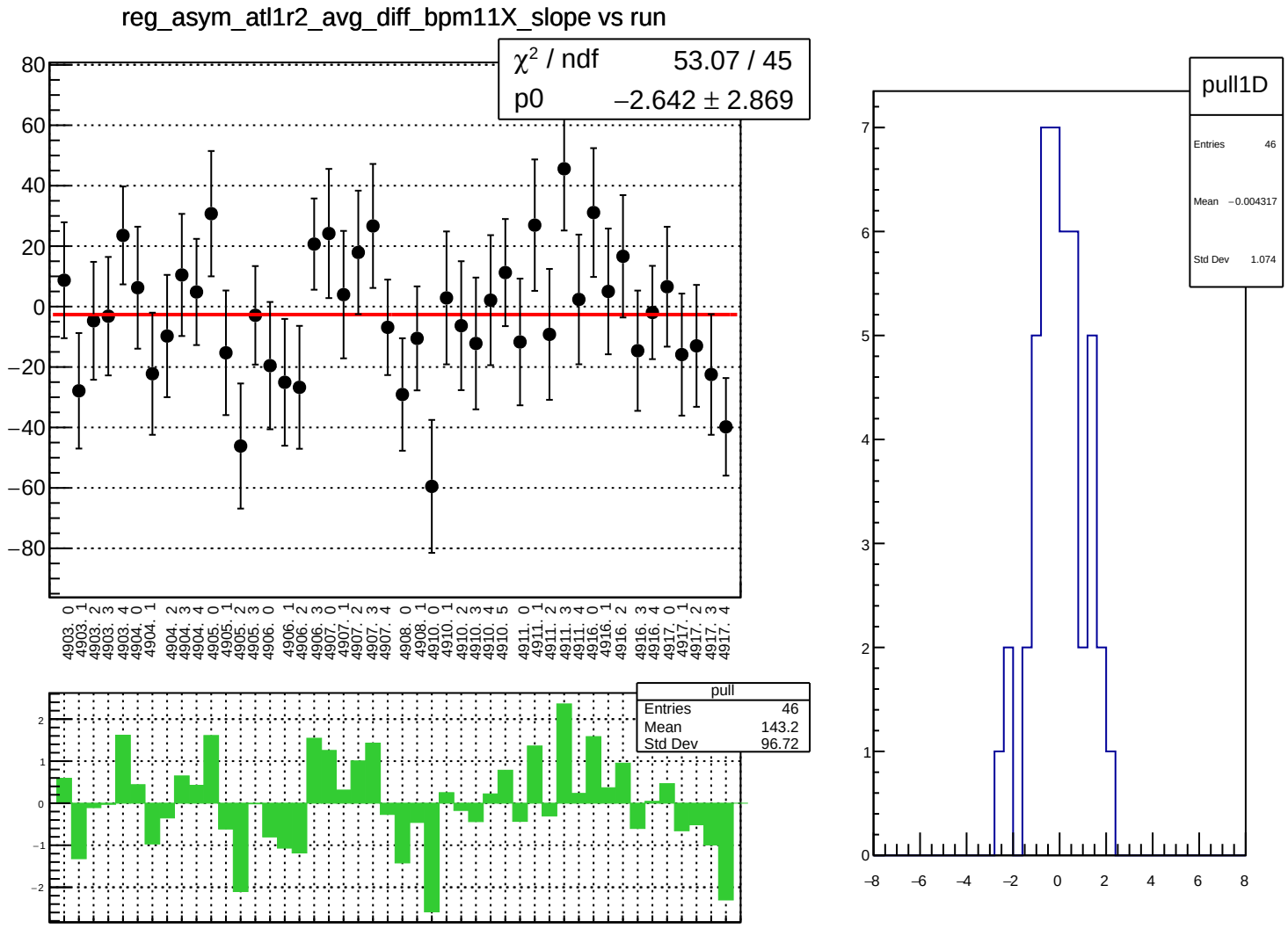

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.6 / 45
p0 −5.07 ± 12.65
pull
Entries 46
Mean 795.9
Std Dev 778.5

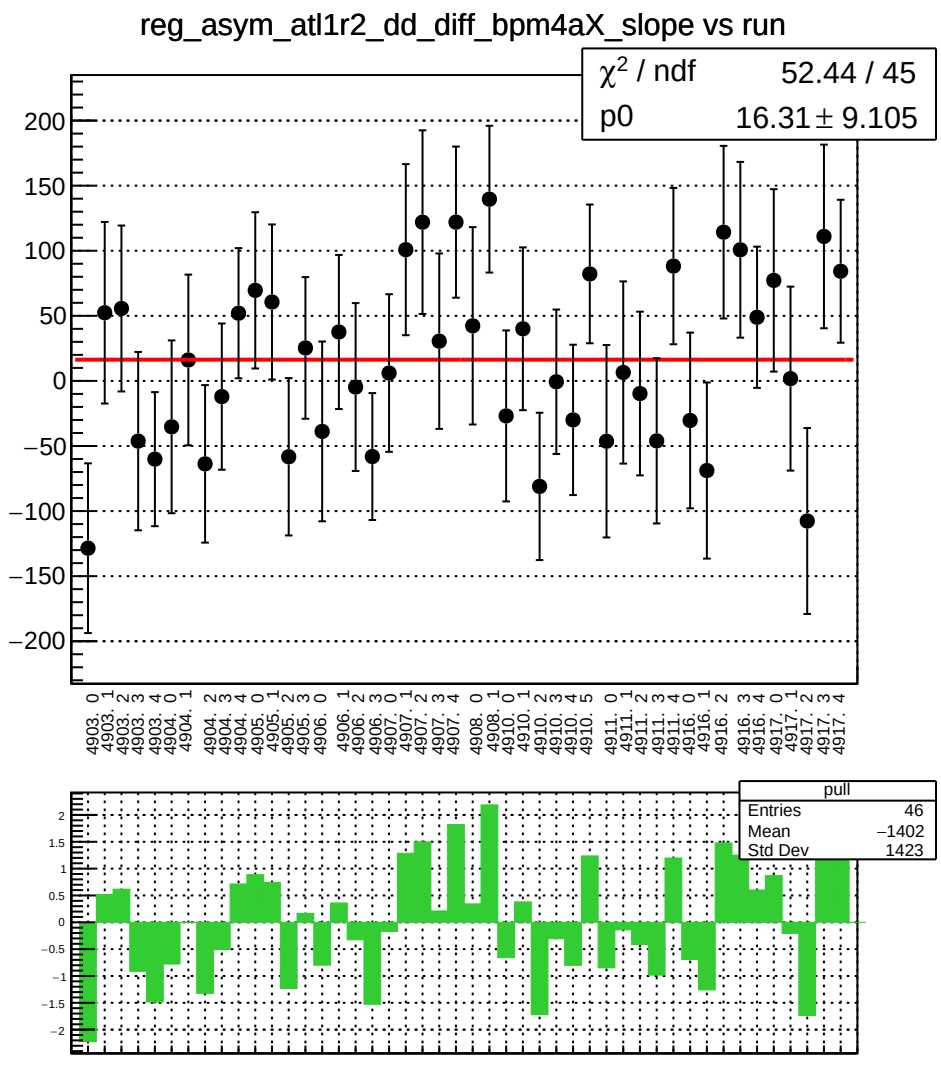

pull1D
Entries 46
Mean 0.00268
Std Dev 1.129

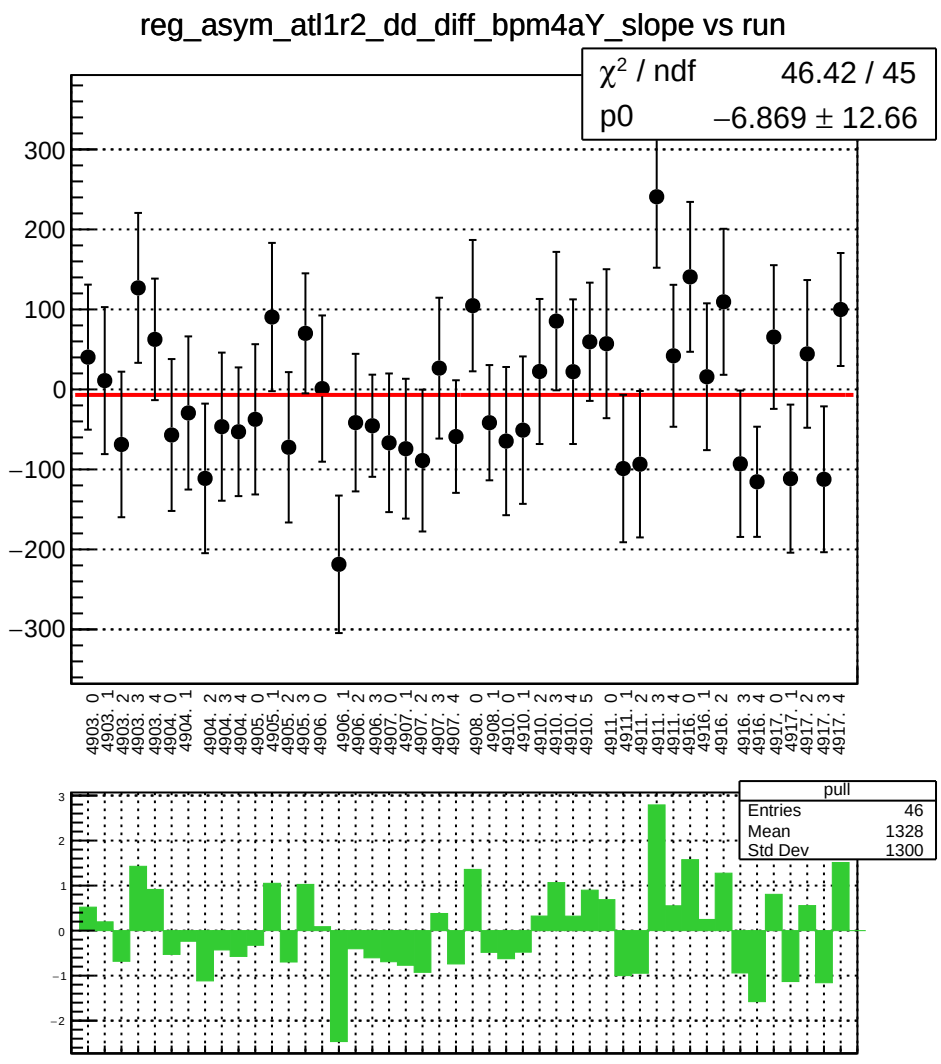

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.01 / 45
p0 13.13 ± 1.852
pull
Entries 46
Mean 106
Std Dev 83.36
pull1D
Entries 46
Mean 0.01191
Std Dev 1.216

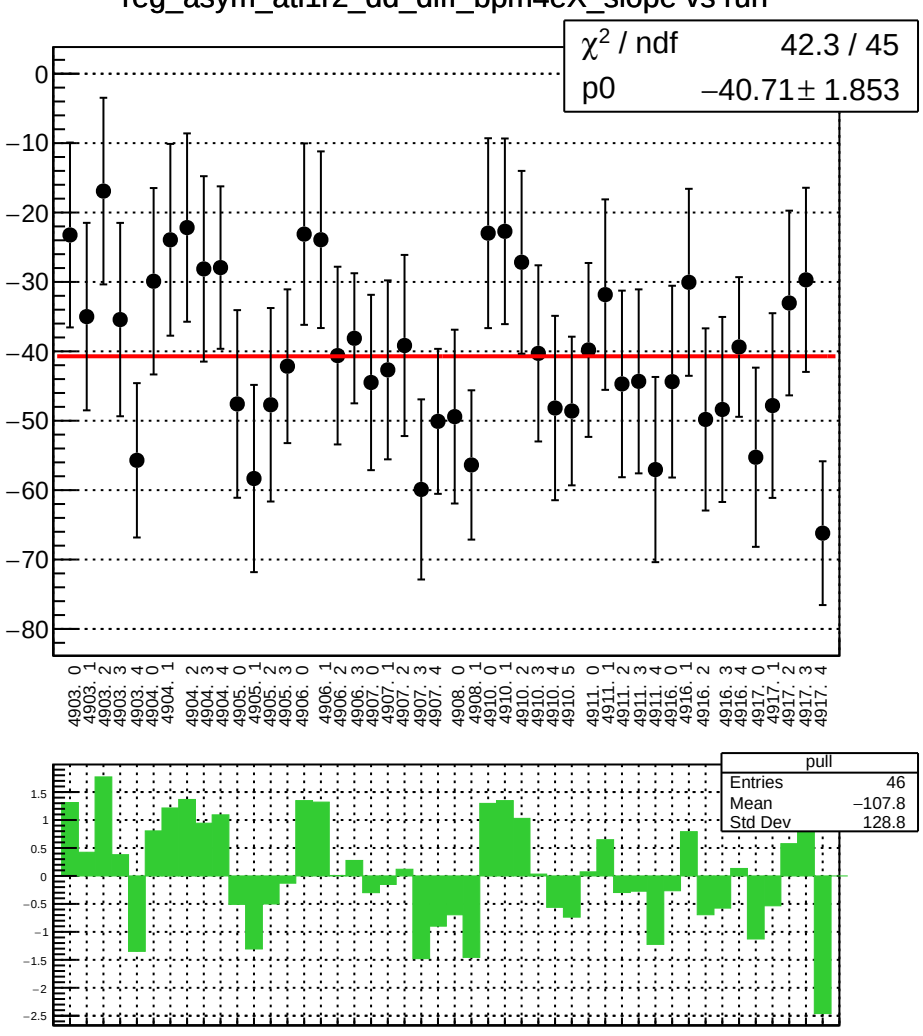

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.71 / 45
p0 −1.096 ± 14.6
pull
Entries 46
Mean −2.011e+04
Std Dev 2.012e+04

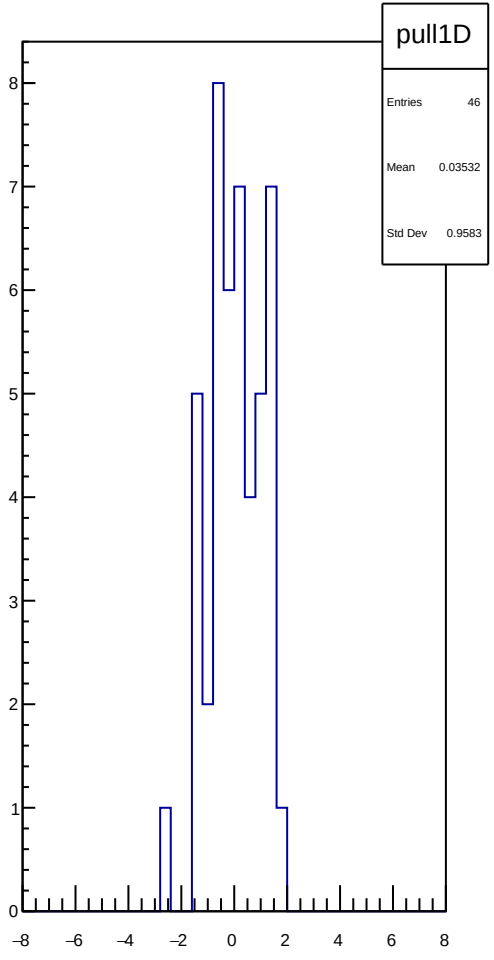

pull1D
Entries 46
Mean 9.919e−05
Std Dev 1.177

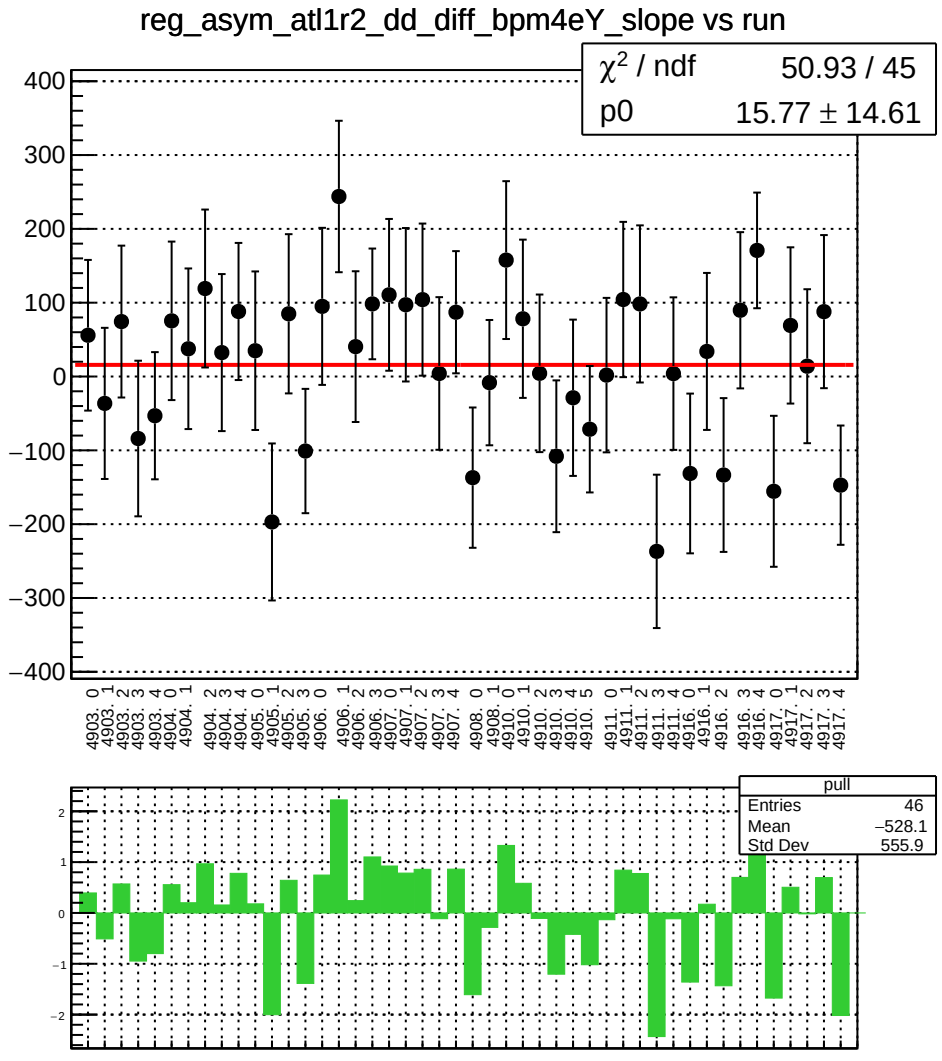

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 53.07 / 45
p0 −2.642 ± 2.869
pull
Entries 46
Mean 143.2
Std Dev 96.72
pull1D
Entries 46
Mean −0.004317
Std Dev 1.074

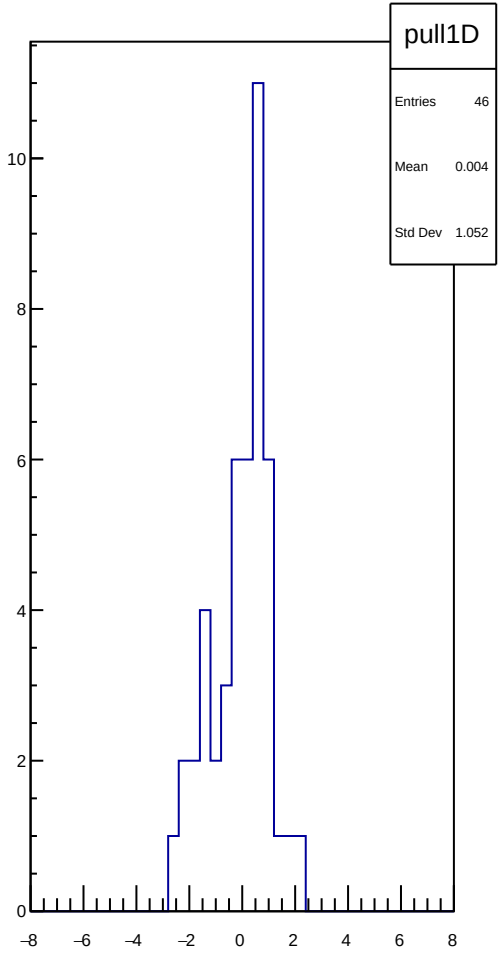

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 52.44 / 45
p0 16.31 ± 9.105
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −1402
Std Dev 1423
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.002275
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

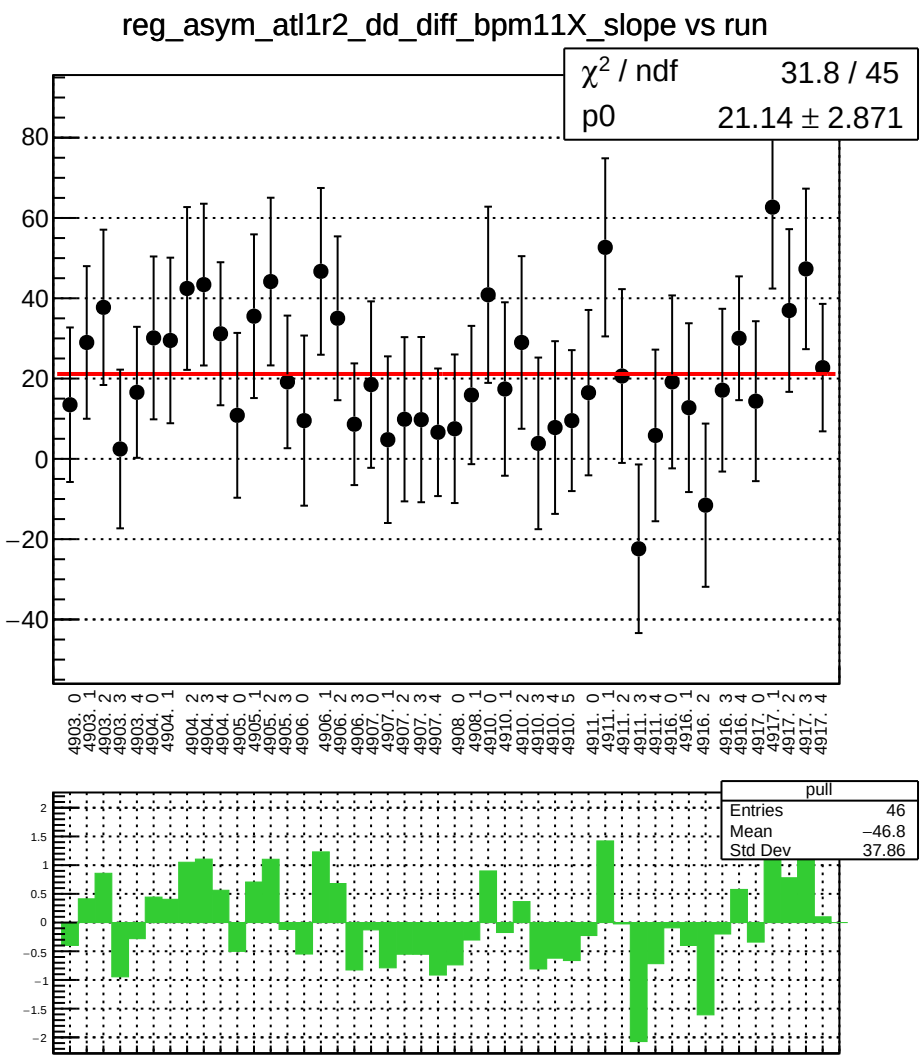

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.42 / 45
p0 −6.869 ± 12.66
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 1328
Std Dev 1300
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.001199
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

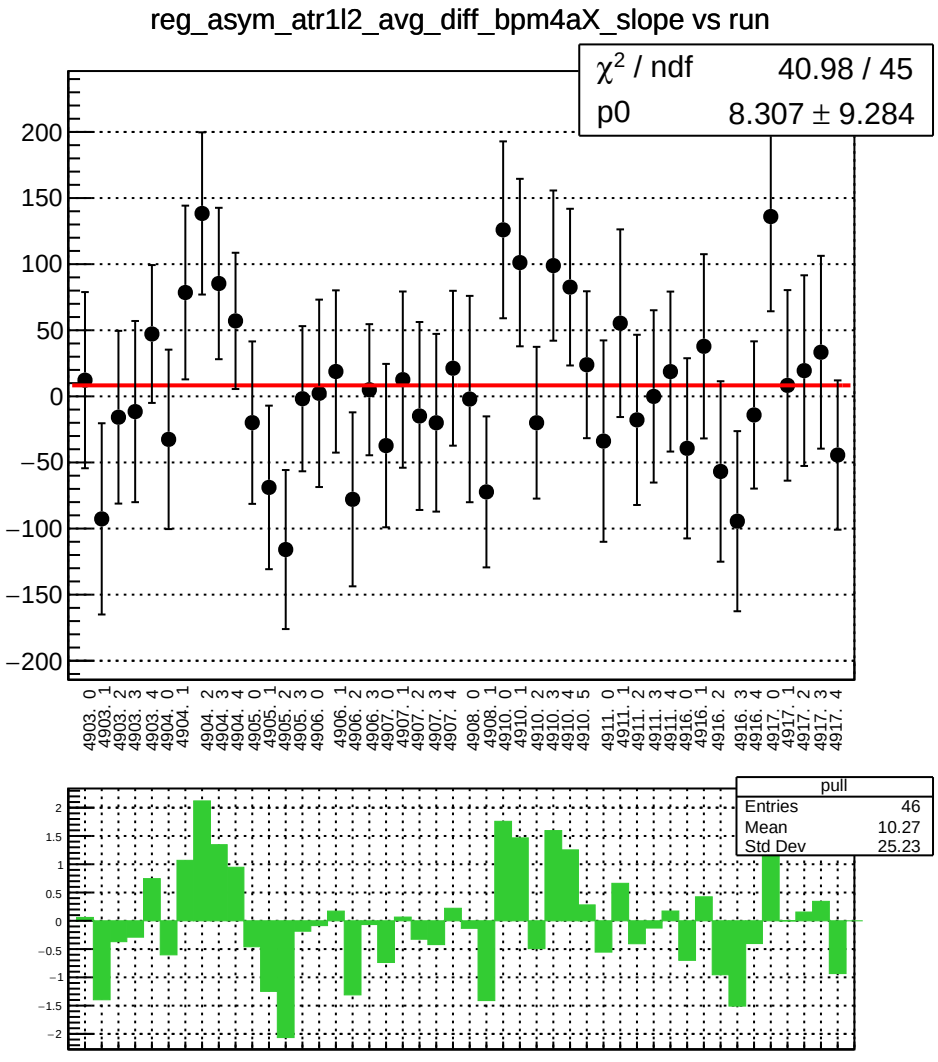

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.3 / 45
p0 −40.71 ± 1.853
pull
Entries 46
Mean −107.8
Std Dev 128.8

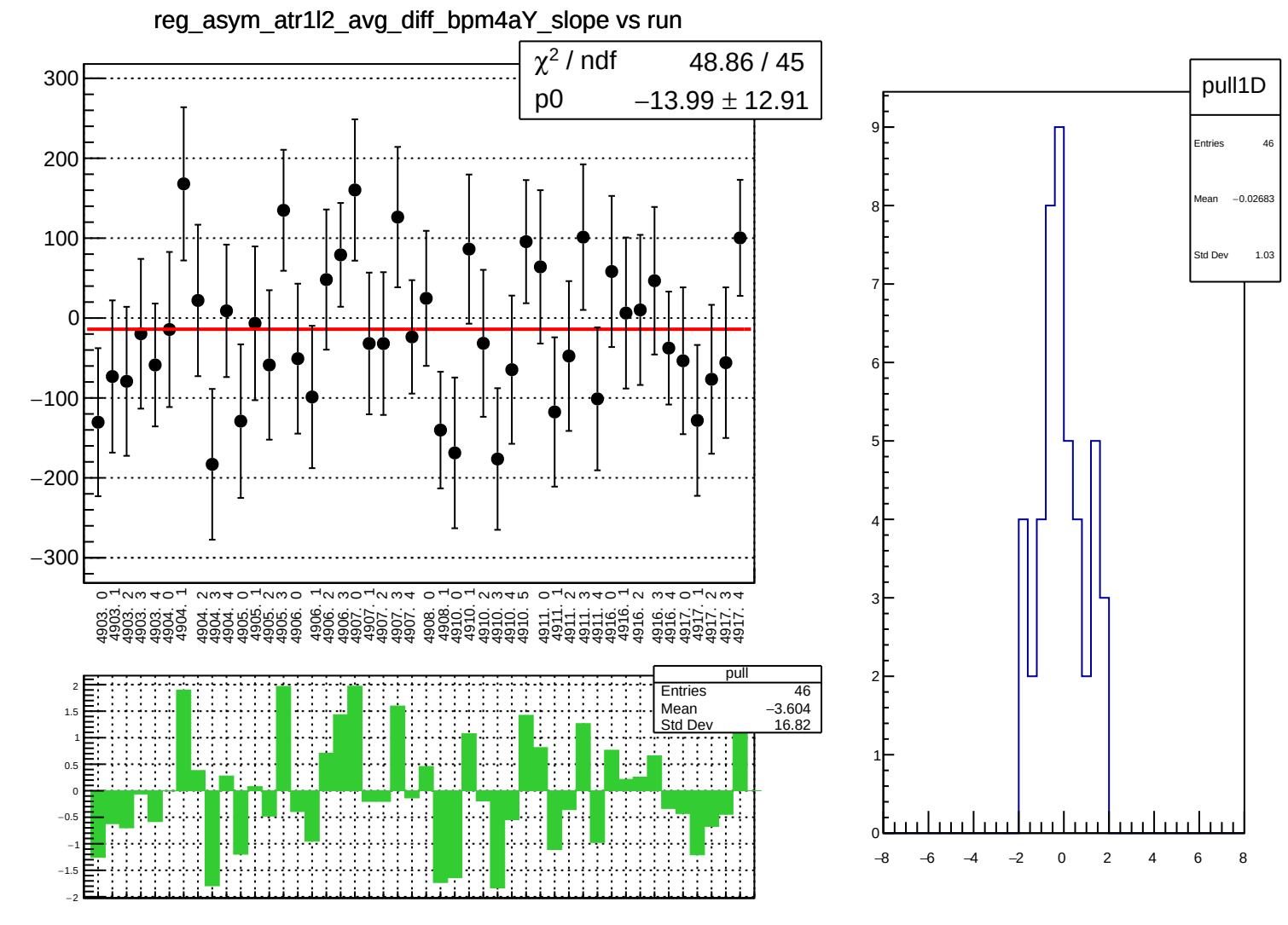

pull1D
Entries 46
Mean 0.03532
Std Dev 0.9583

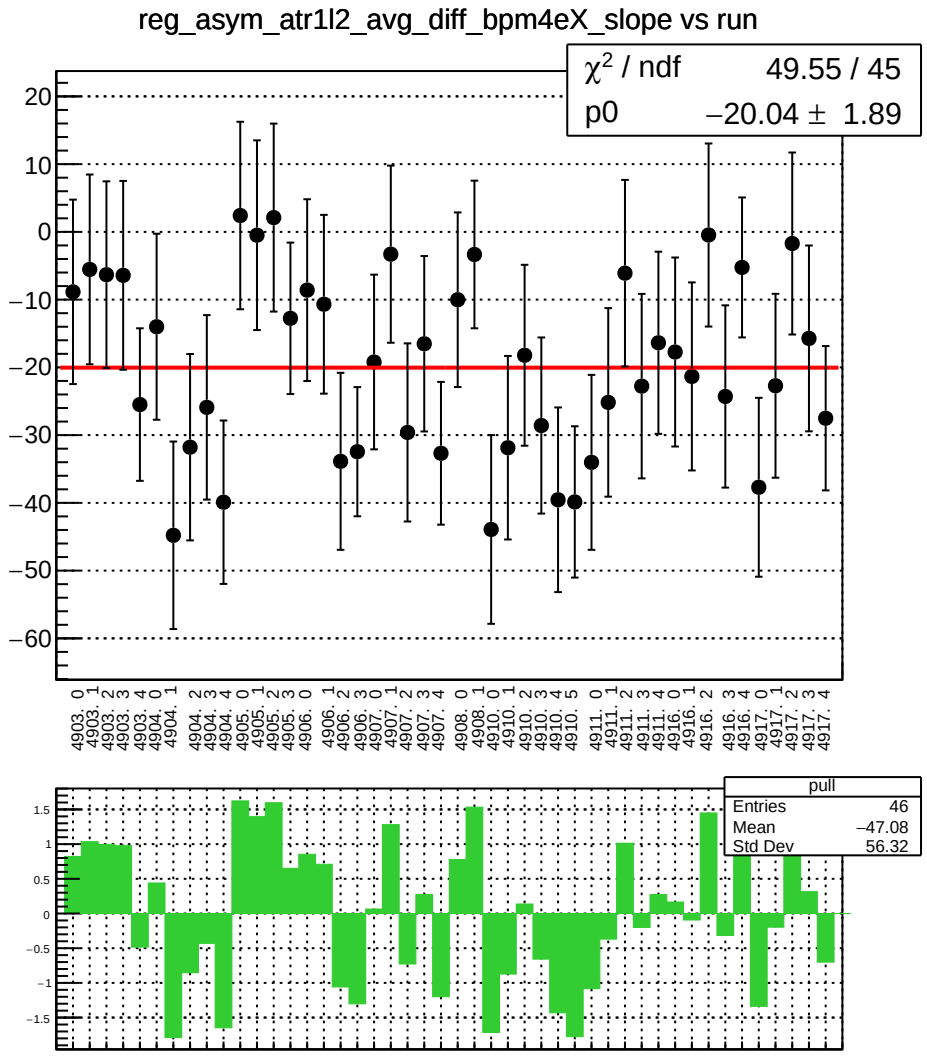

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.93 / 45
p0 15.77 ± 14.61
pull
Entries 46
Mean −528.1
Std Dev 555.9

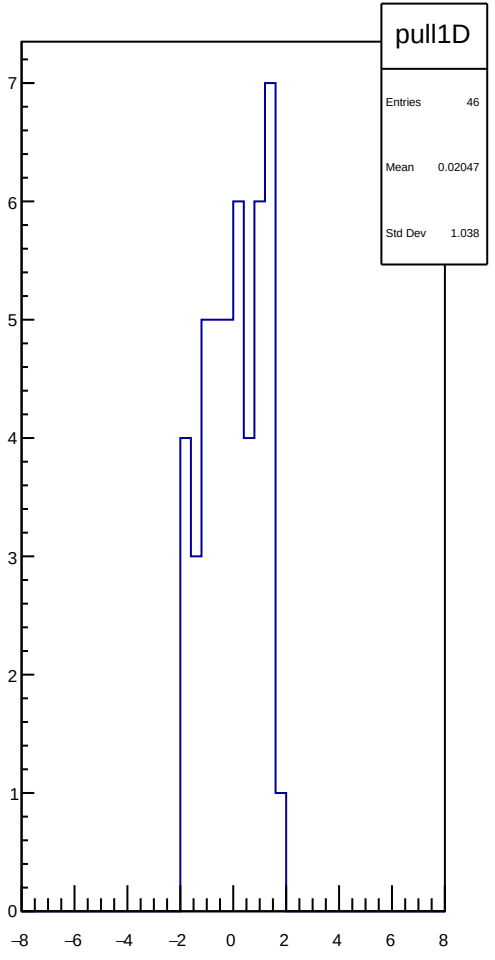

pull1D
Entries 46
Mean 0.004
Std Dev 1.052

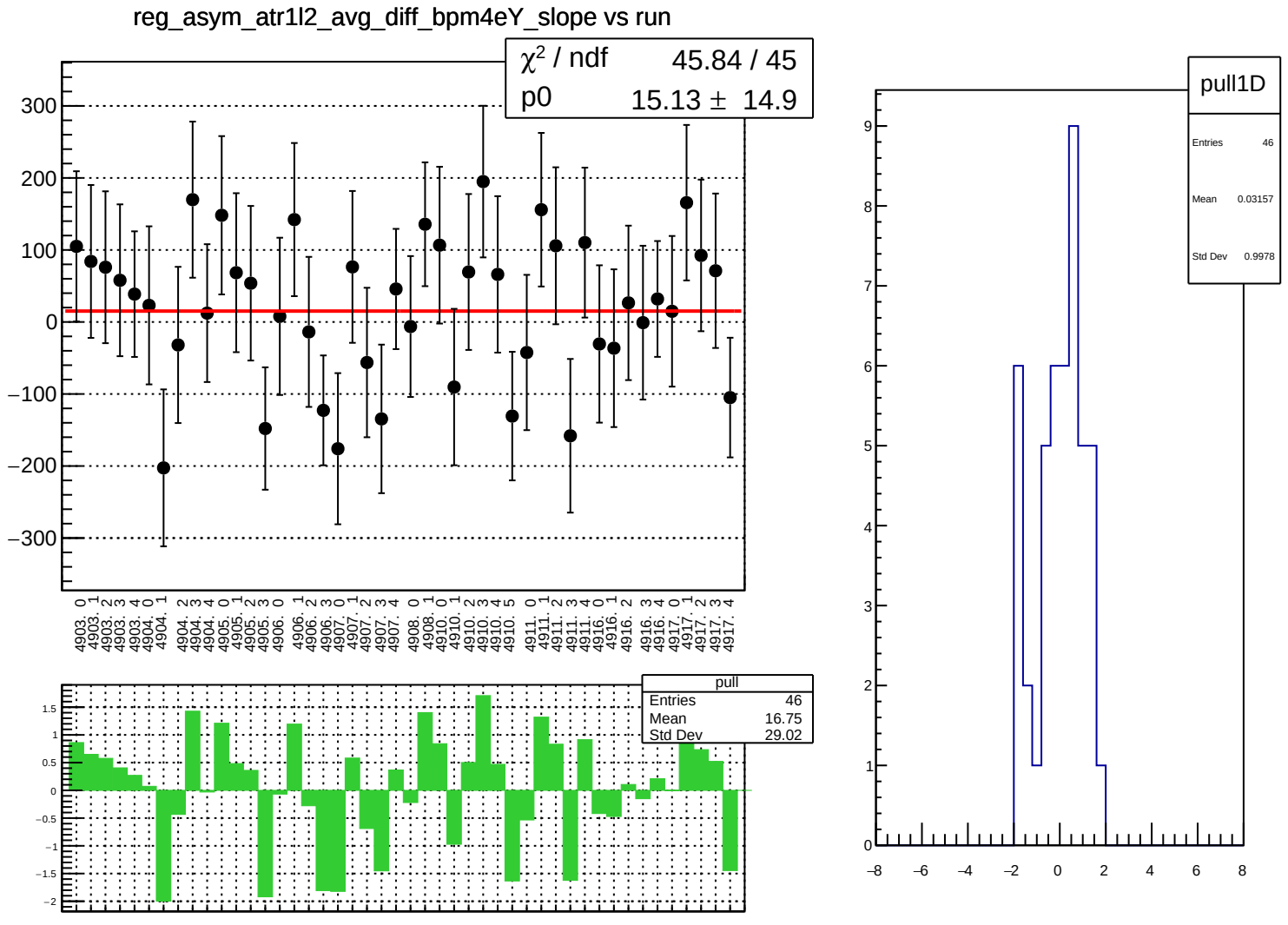

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 31.8 / 45
p0 21.14 ± 2.871
80
60
40
20
0
−20
−40
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −46.8
Std Dev 37.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01136
Std Dev 0.8314
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

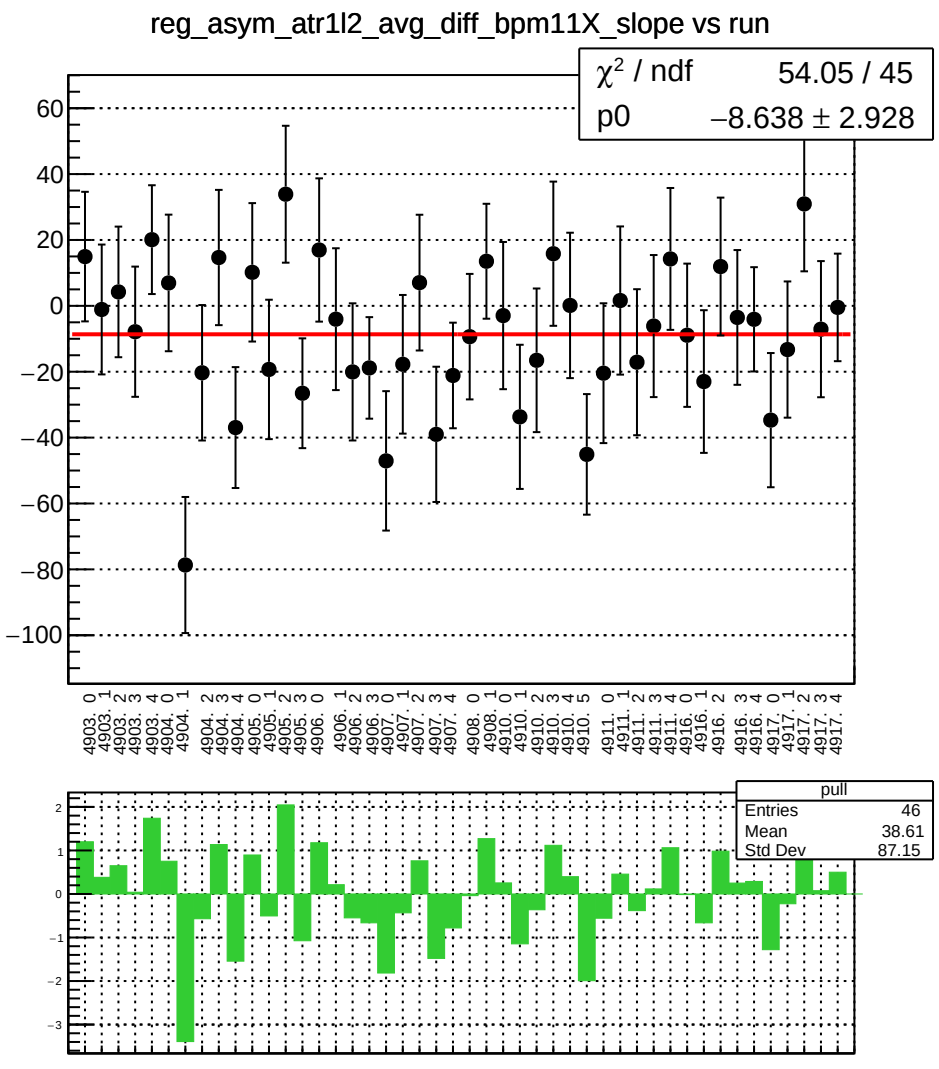

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.98 / 45
p0 8.307 ± 9.284
200
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 10.27
Std Dev 25.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01163
Std Dev 0.9438
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

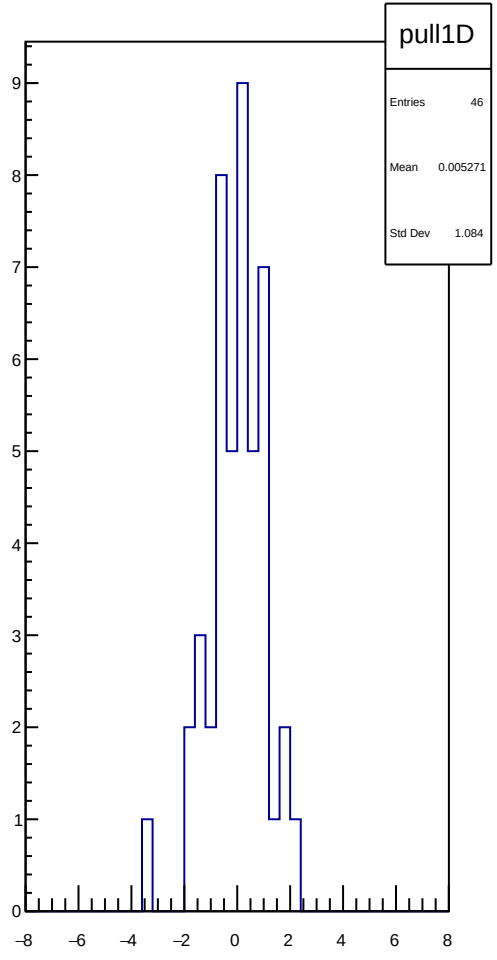

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.86 / 45
p0 −13.99 ± 12.91
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −3.604
Std Dev 16.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.02683
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

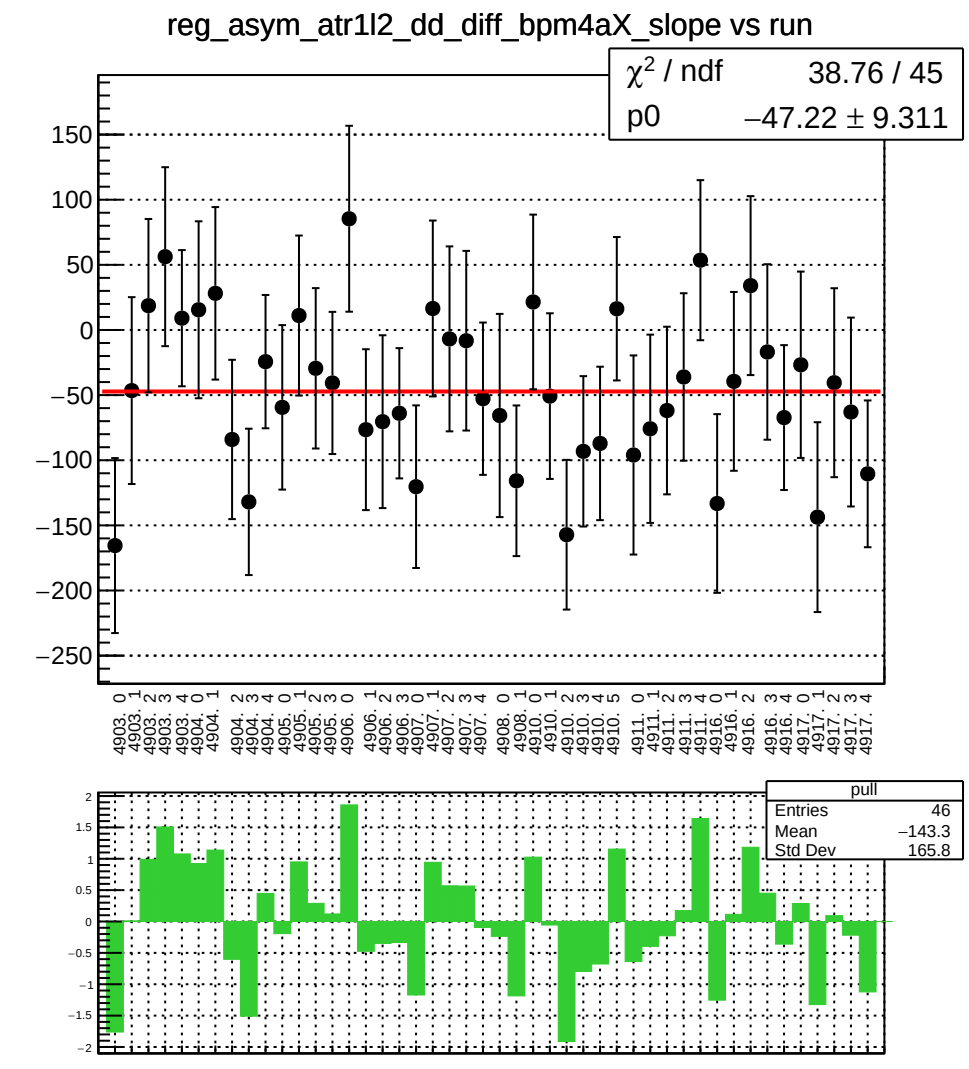

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.55 / 45
p0 −20.04 ± 1.89
pull
Entries 46
Mean −47.08
Std Dev 56.32

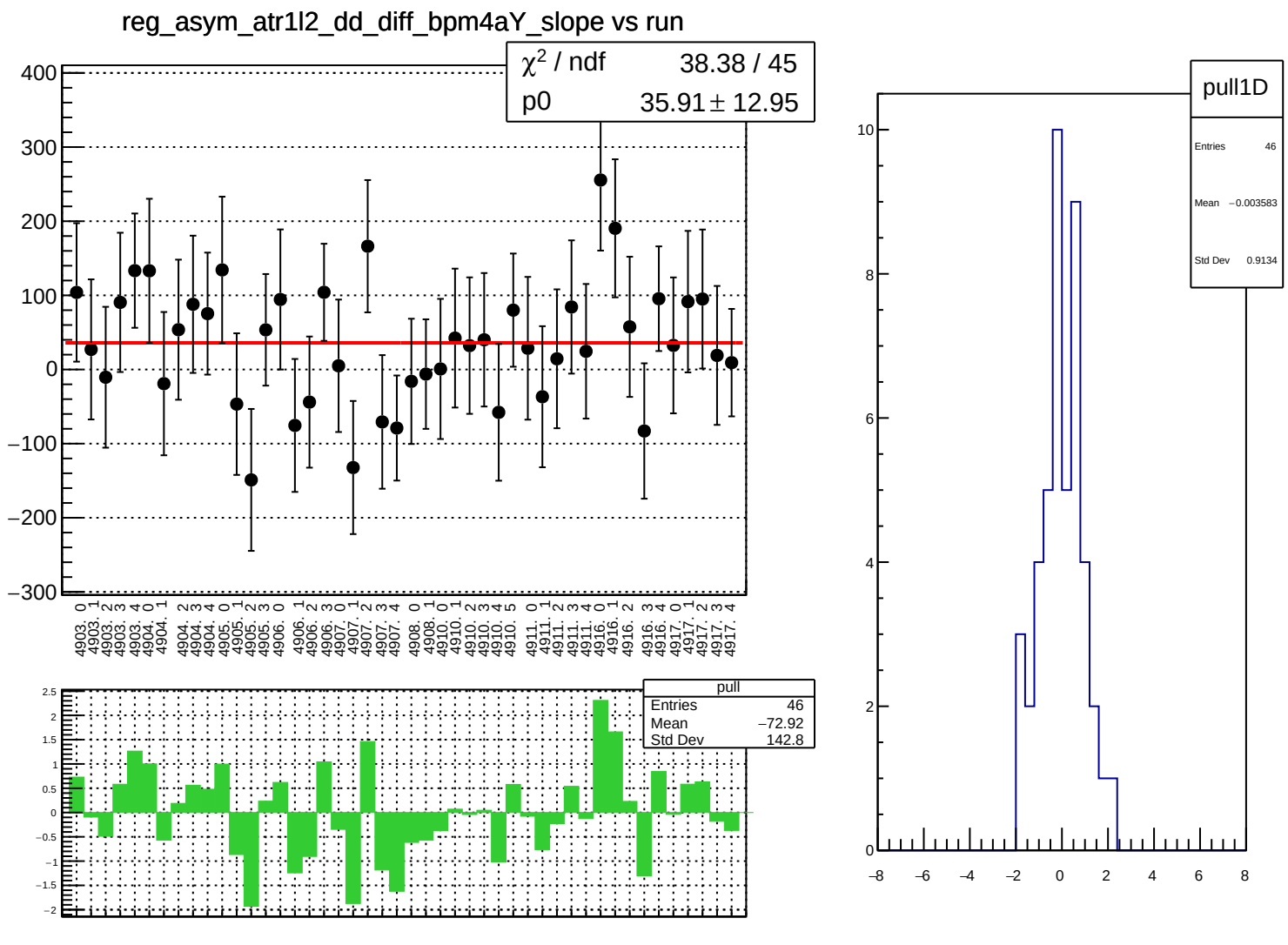

pull1D
Entries 46
Mean 0.02047
Std Dev 1.038

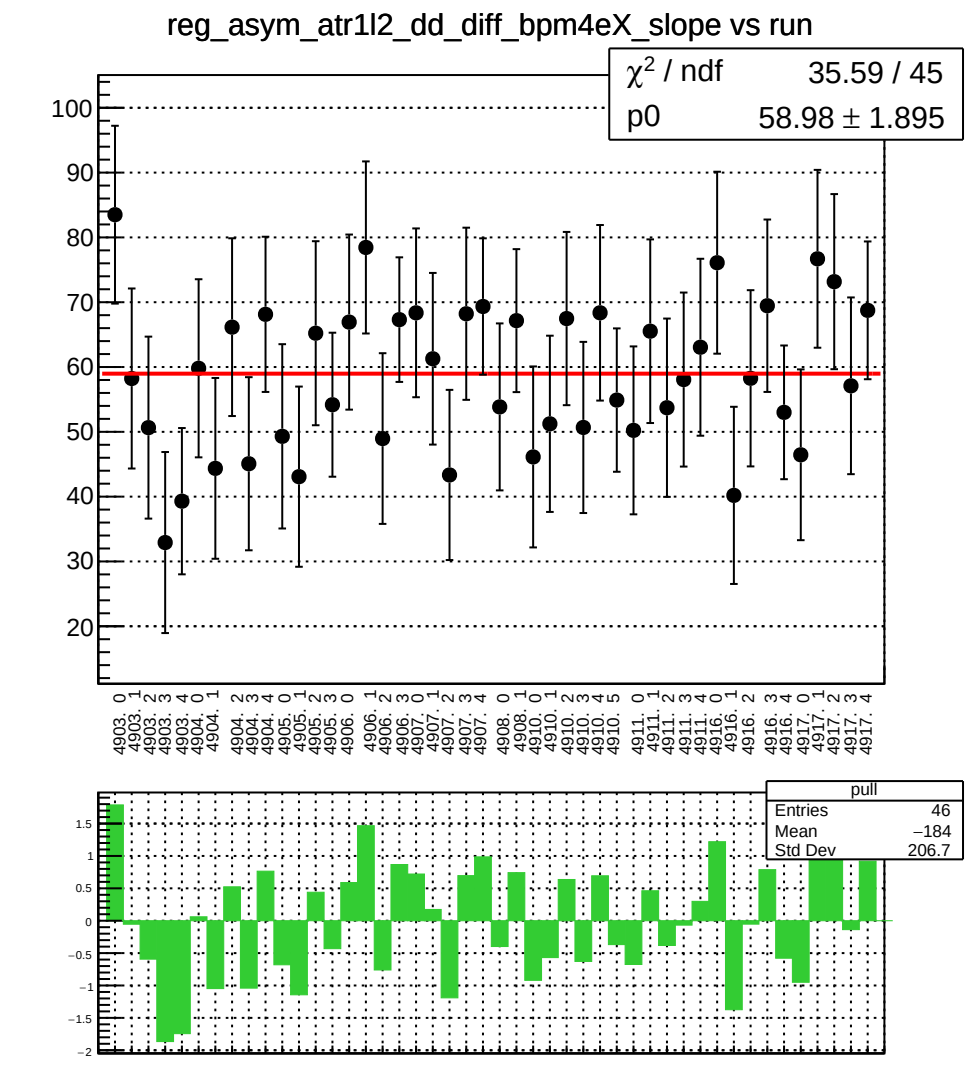

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.84 / 45
p0 15.13 ± 14.9
300
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 16.75
Std Dev 29.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03157
Std Dev 0.9978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

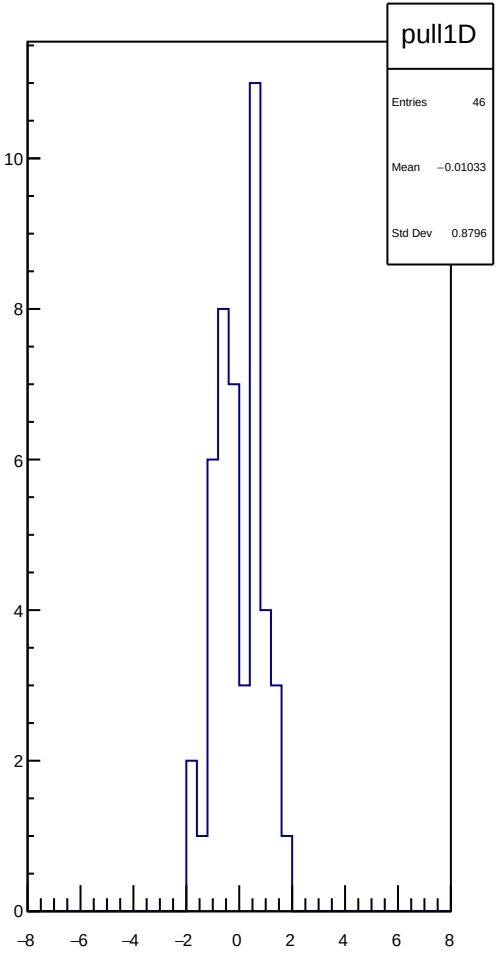

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 54.05 / 45
p0 −8.638 ± 2.928
pull
Entries 46
Mean 38.61
Std Dev 87.15

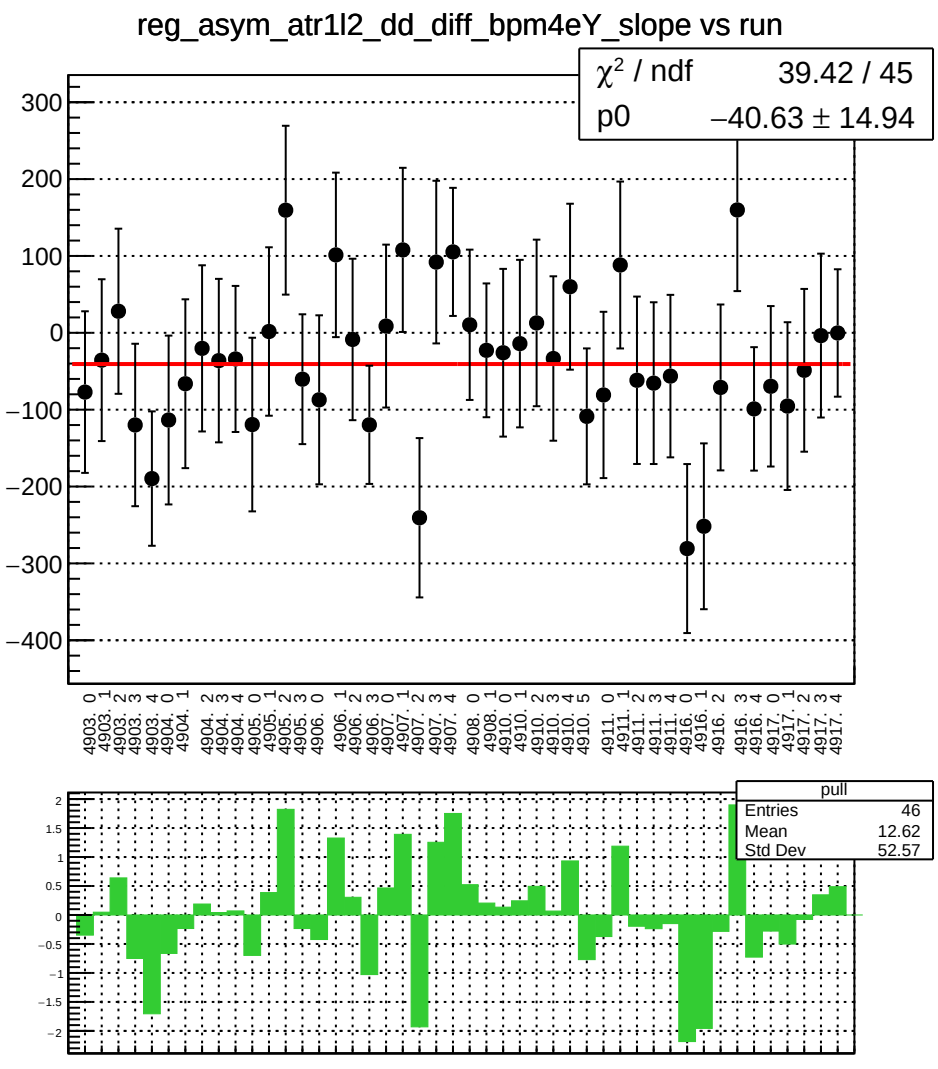

pull1D
Entries 46
Mean 0.005271
Std Dev 1.084

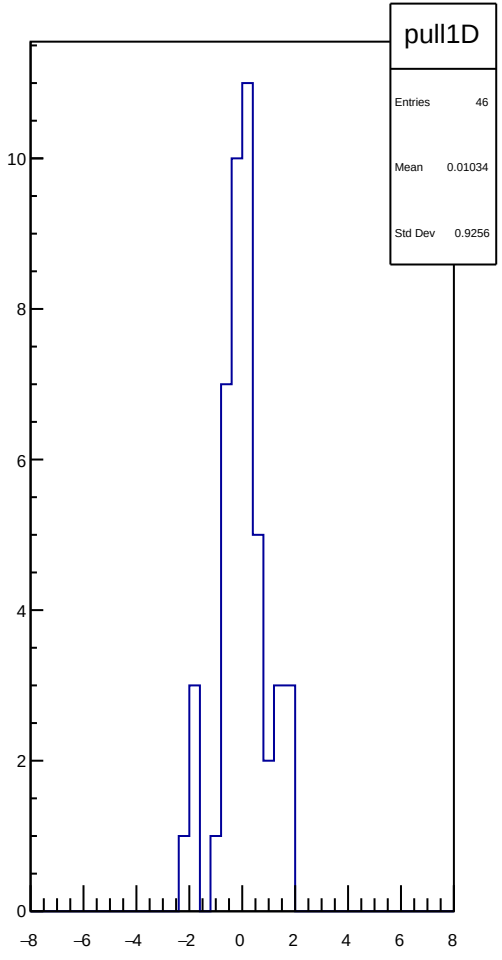

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 38.76 / 45
p0 −47.22 ± 9.311
150
100
50
0
−50
−100
−150
−200
−250
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −143.3
Std Dev 165.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01342
Std Dev 0.9179
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

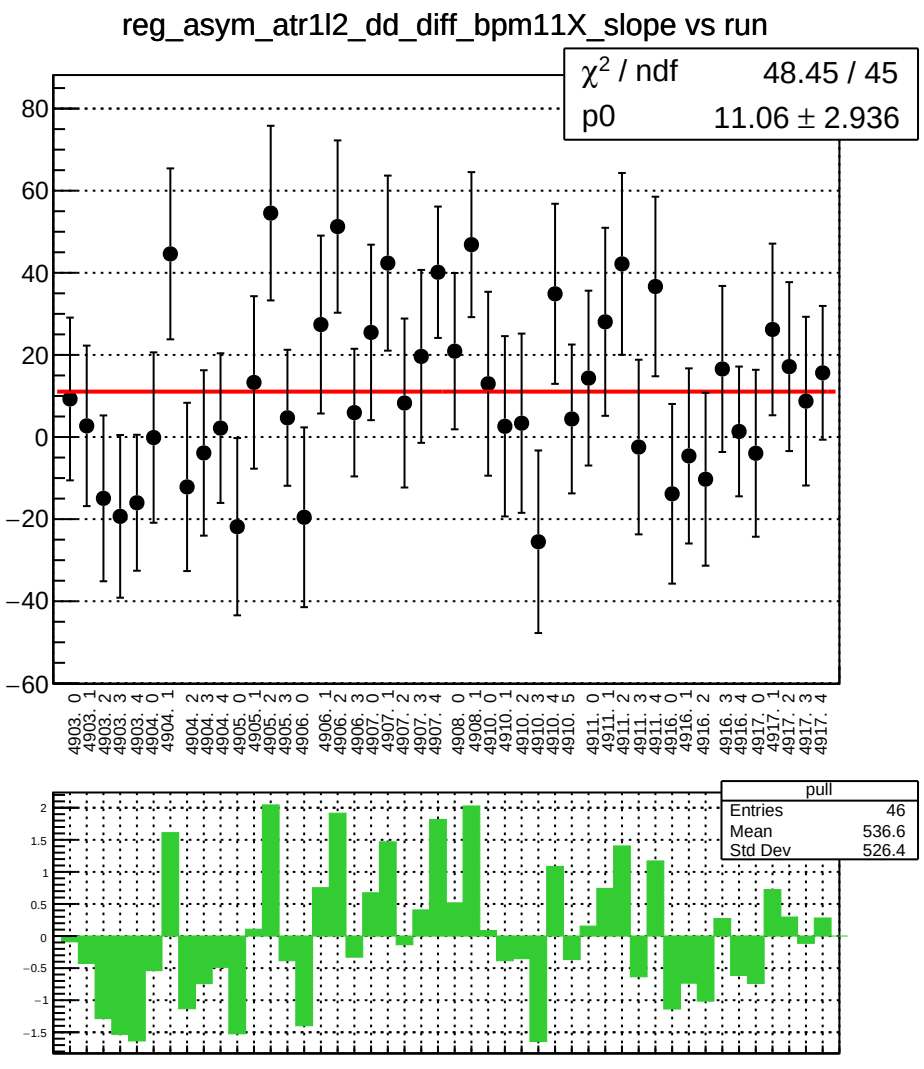

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.38 / 45
p0 35.91 ± 12.95
pull
Entries 46
Mean −72.92
Std Dev 142.8
pull1D
Entries 46
Mean −0.003583
Std Dev 0.9134

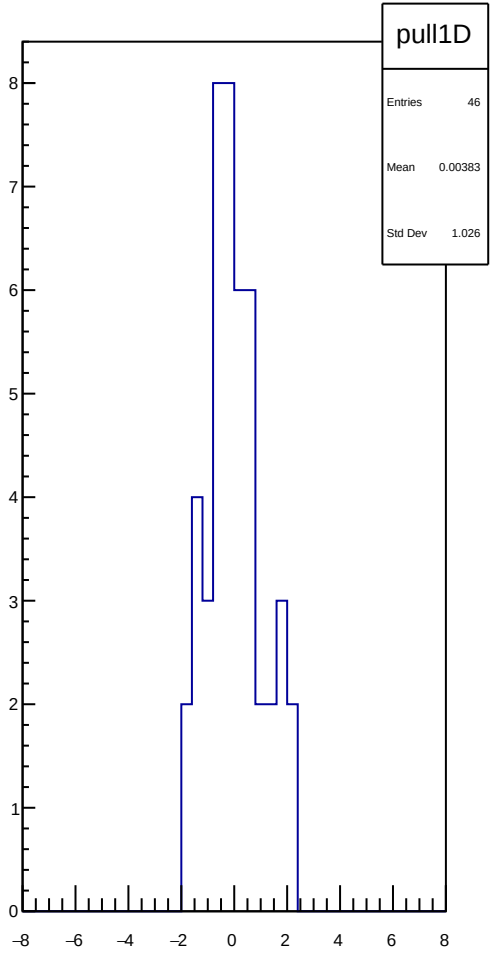

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.59 / 45
p0 58.98 ± 1.895
pull
Entries 46
Mean −184
Std Dev 206.7

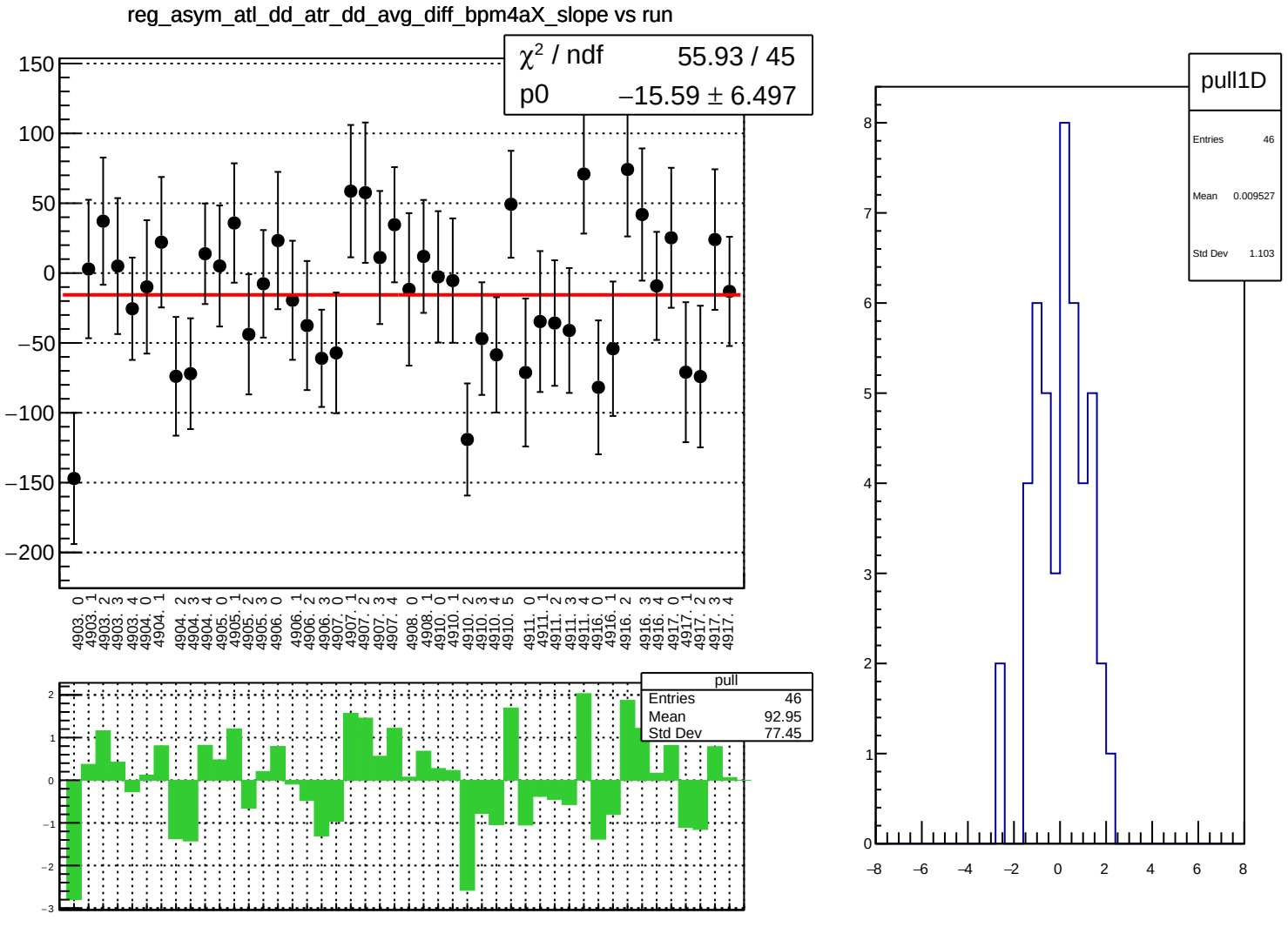

pull1D
Entries 46
Mean −0.01033
Std Dev 0.8796

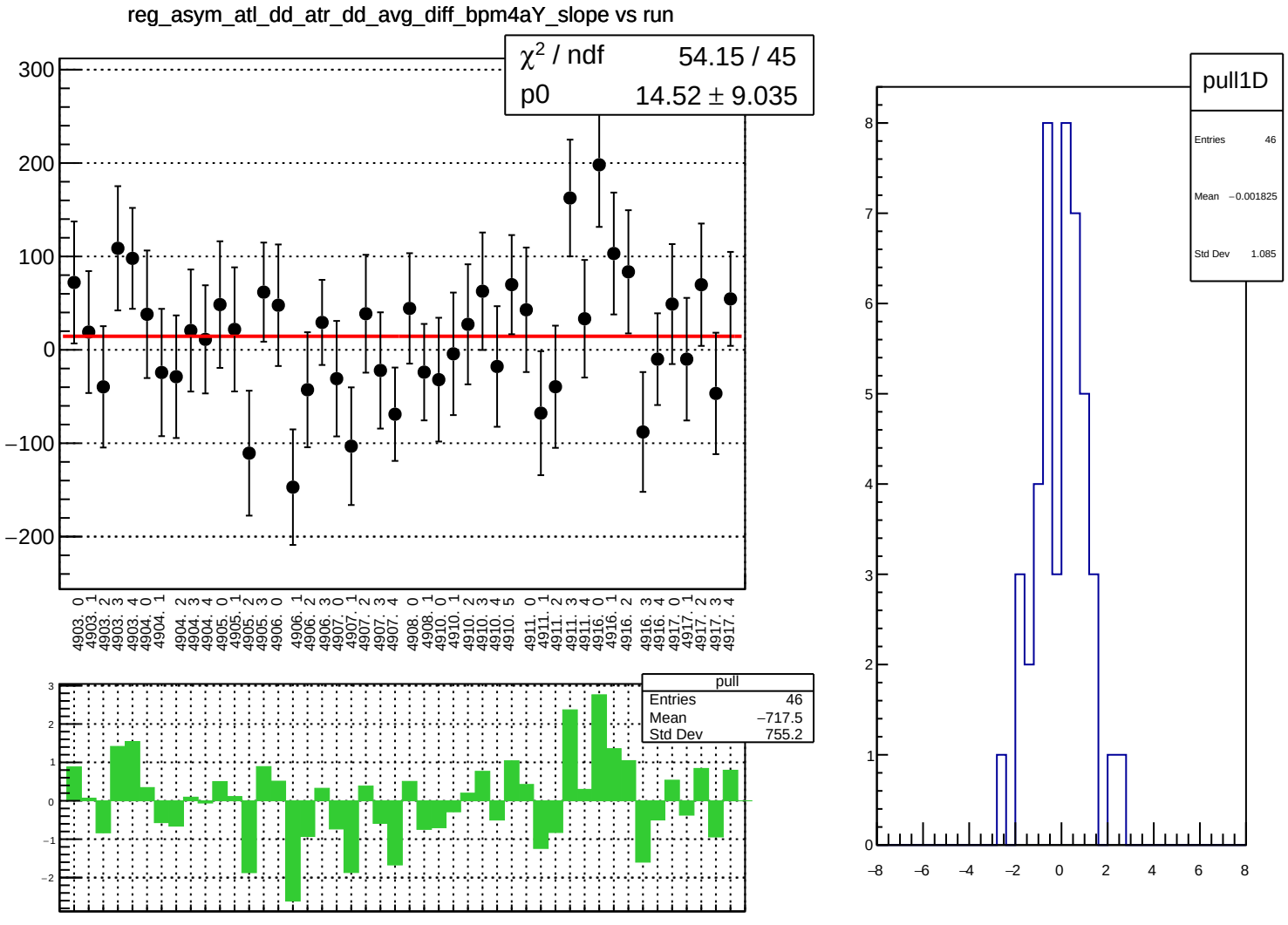

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.42 / 45
p0 −40.63 ± 14.94
pull
Entries 46
Mean 12.62
Std Dev 52.57

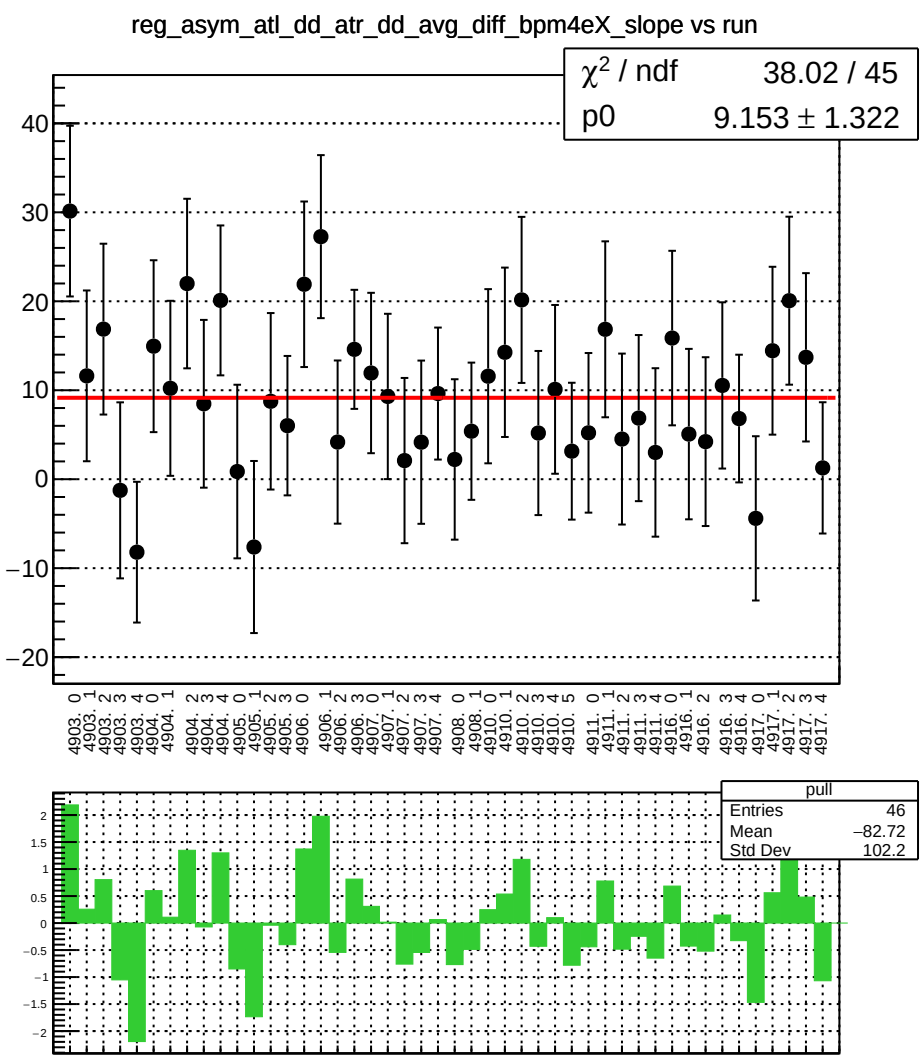

pull1D
Entries 46
Mean 0.01034
Std Dev 0.9256

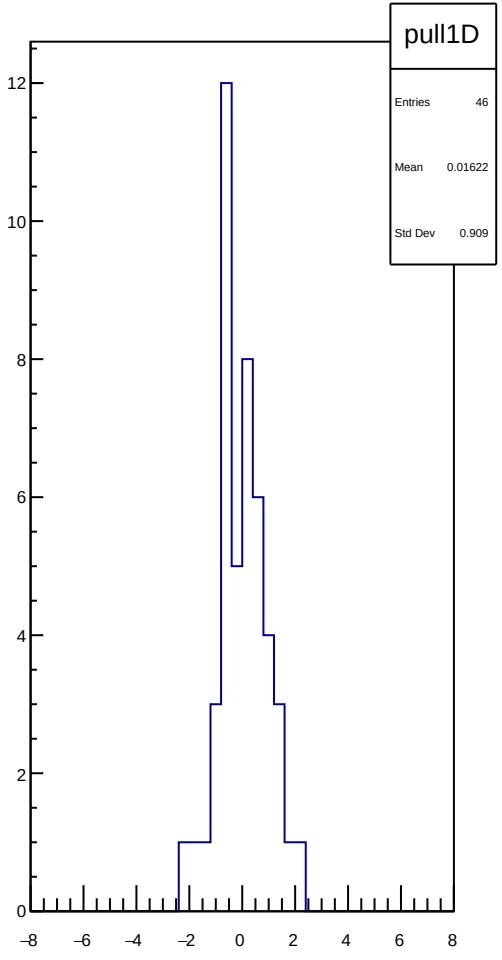

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 48.45 / 45
p0 11.06 ± 2.936
pull
Entries 46
Mean 536.6
Std Dev 526.4

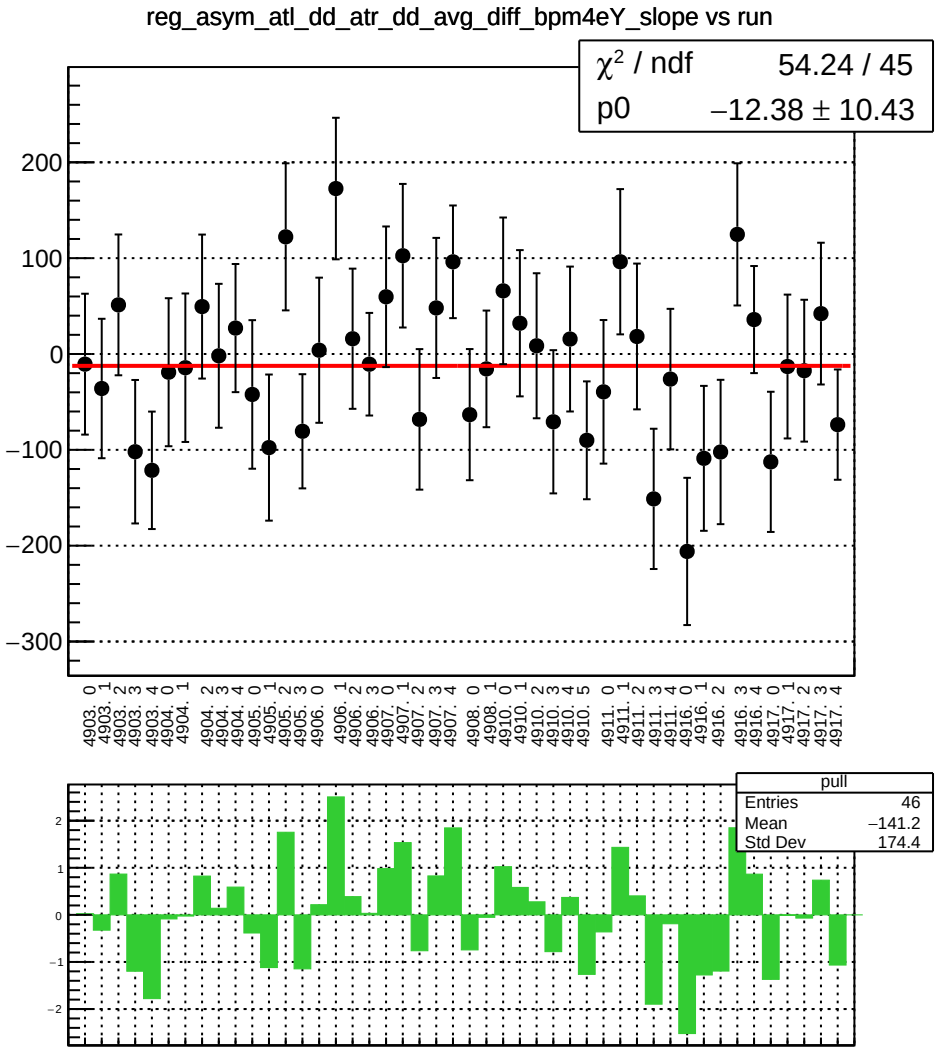

pull1D
Entries 46
Mean 0.00383
Std Dev 1.026

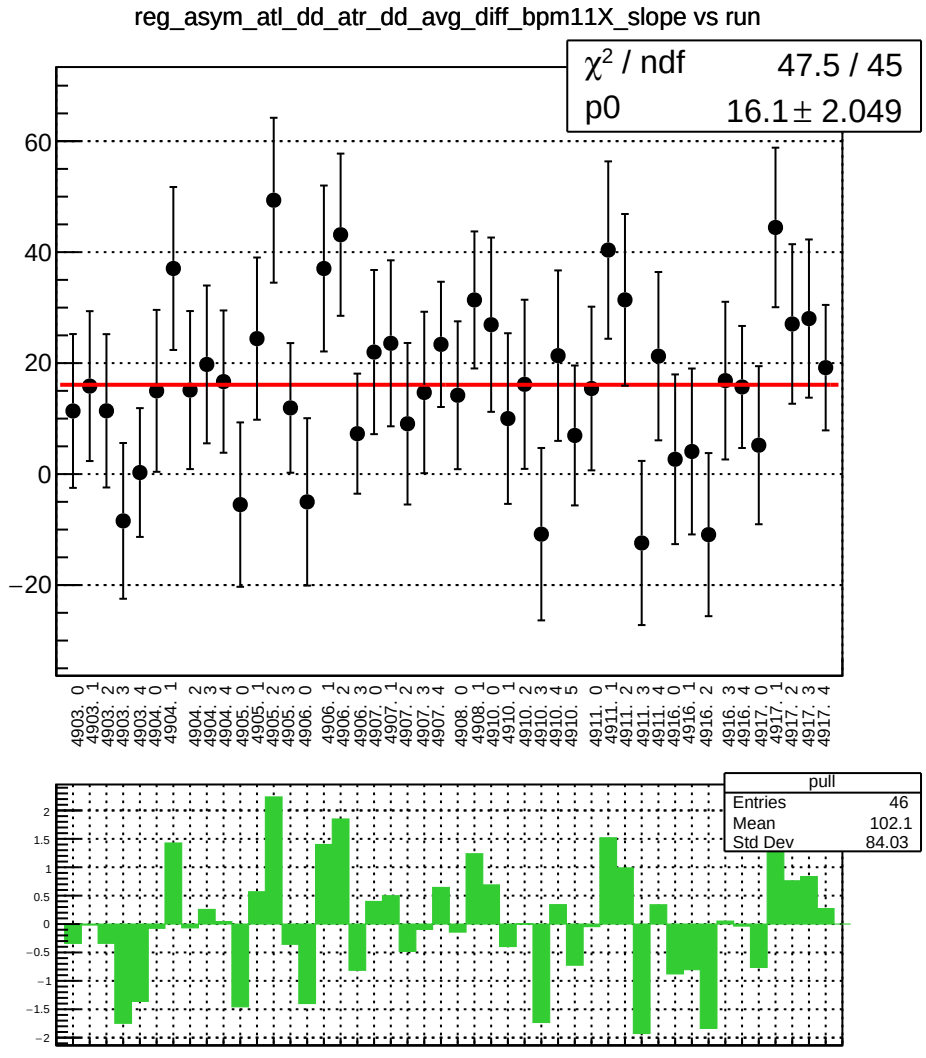

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 55.93 / 45
p0 −15.59 ± 6.497
150
100
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 92.95
Std Dev 77.45
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.009527
Std Dev 1.103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

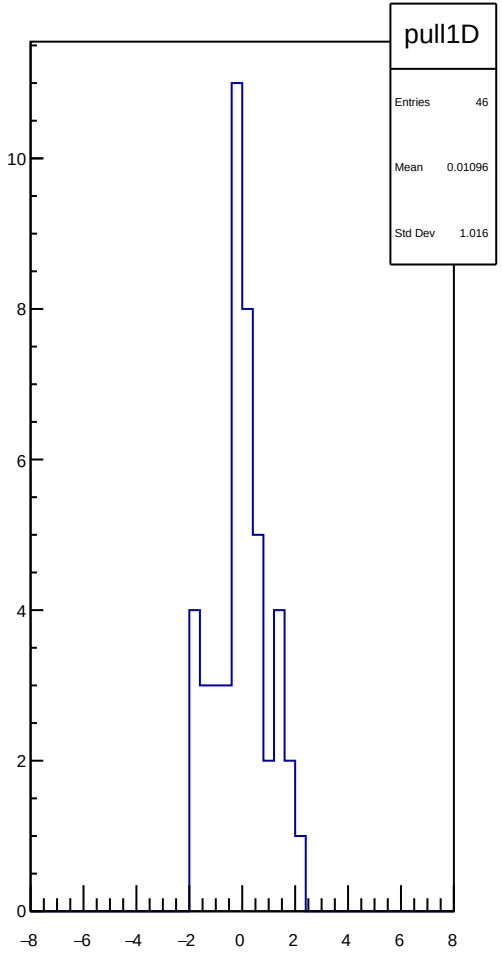

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.15 / 45
p0 14.52 ± 9.035
300
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −717.5
Std Dev 755.2
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.001825
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

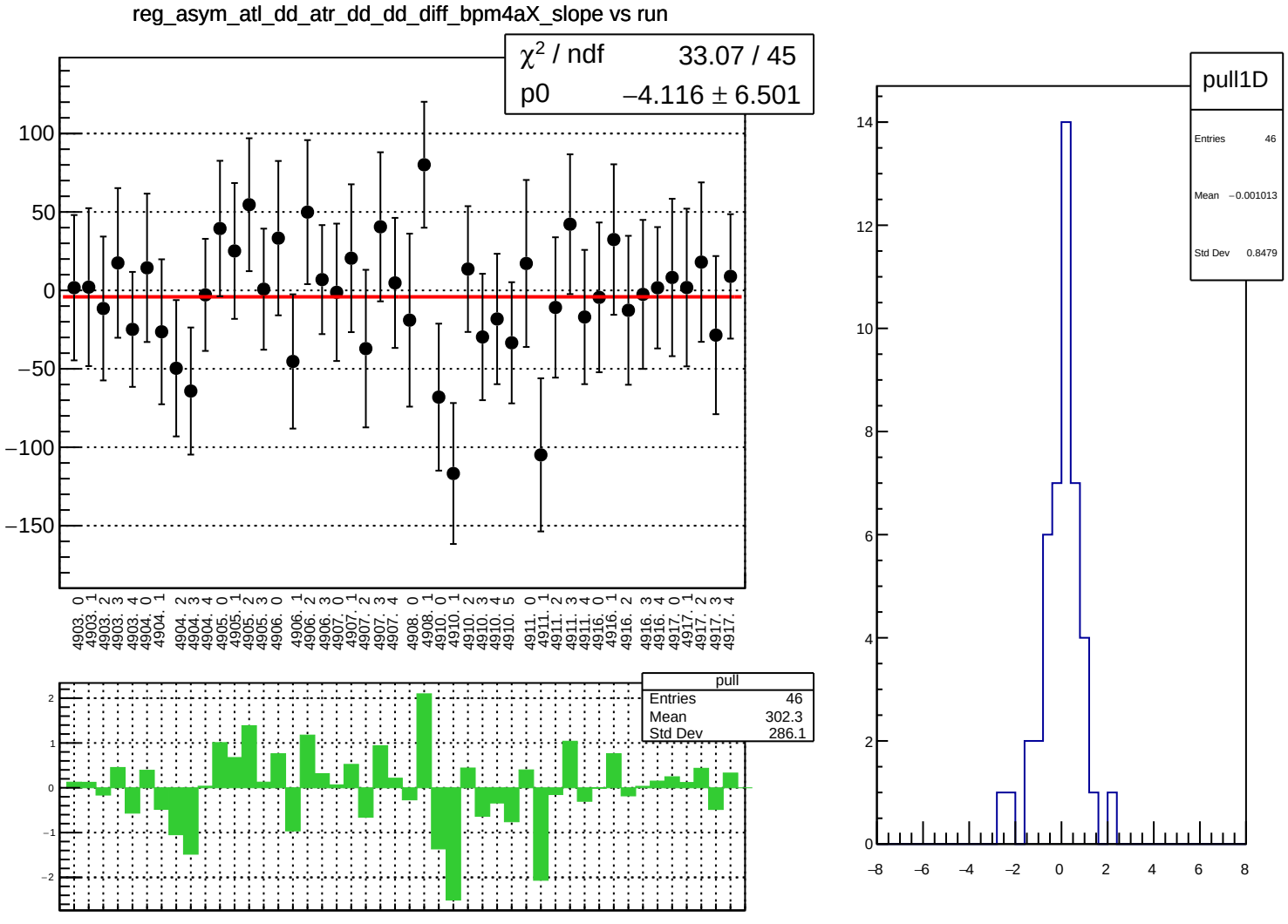

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.02 / 45
p0 9.153 ± 1.322
pull
Entries 46
Mean −82.72
Std Dev 102.2

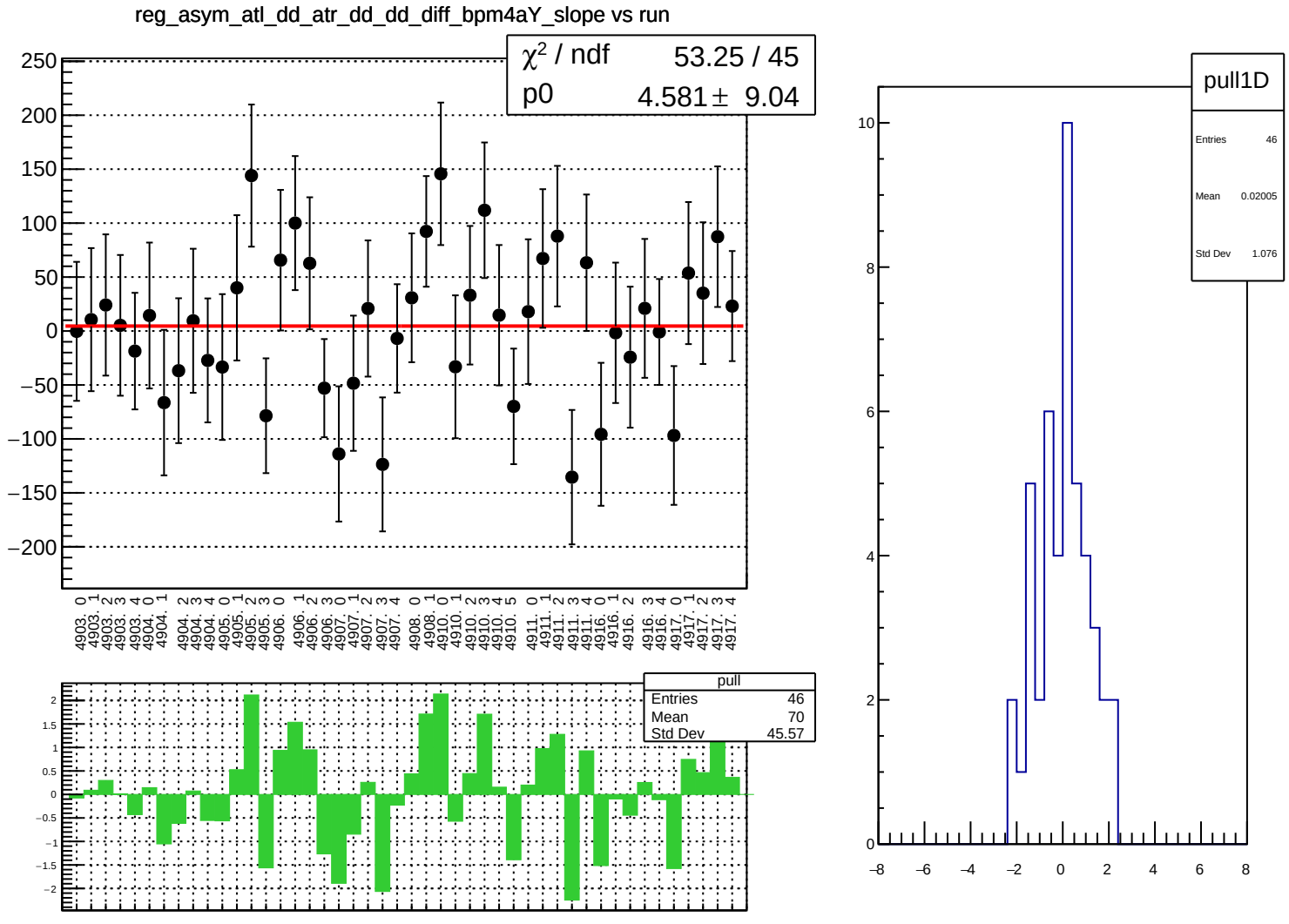

pull1D
Entries 46
Mean 0.01622
Std Dev 0.909

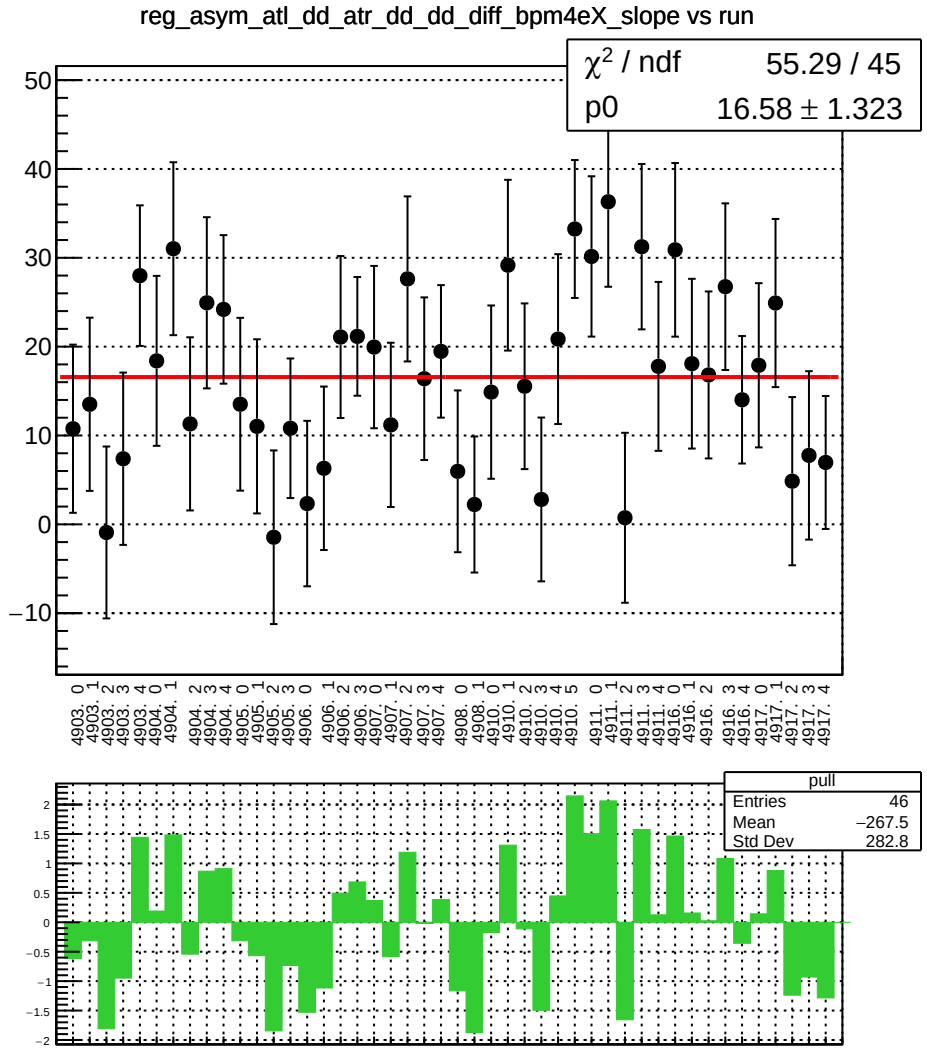

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.24 / 45
p0 −12.38 ± 10.43
200
100
0
−100
−200
−300
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −141.2
Std Dev 174.4
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.009921
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

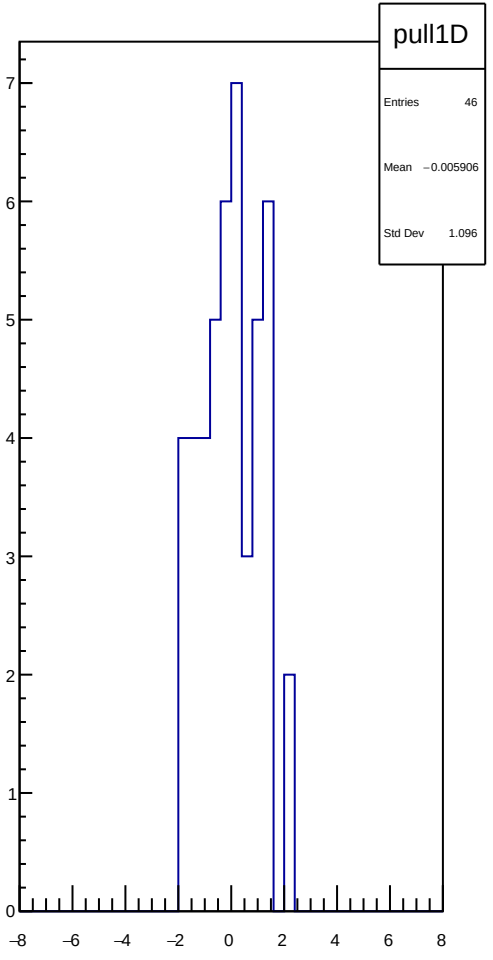

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 47.5 / 45
p0 16.1 ± 2.049
pull
Entries 46
Mean 102.1
Std Dev 84.03

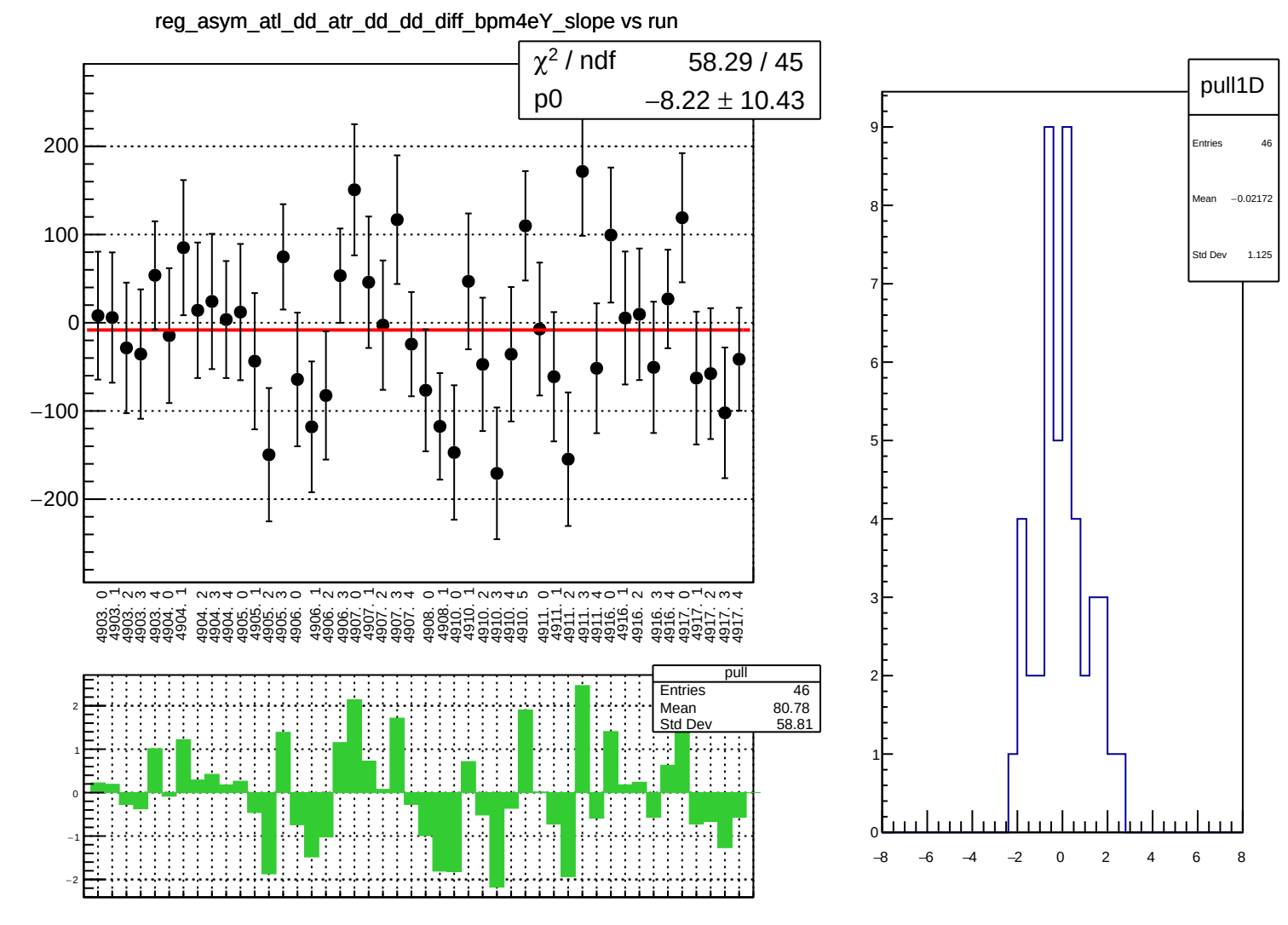

pull1D
Entries 46
Mean 0.01096
Std Dev 1.016

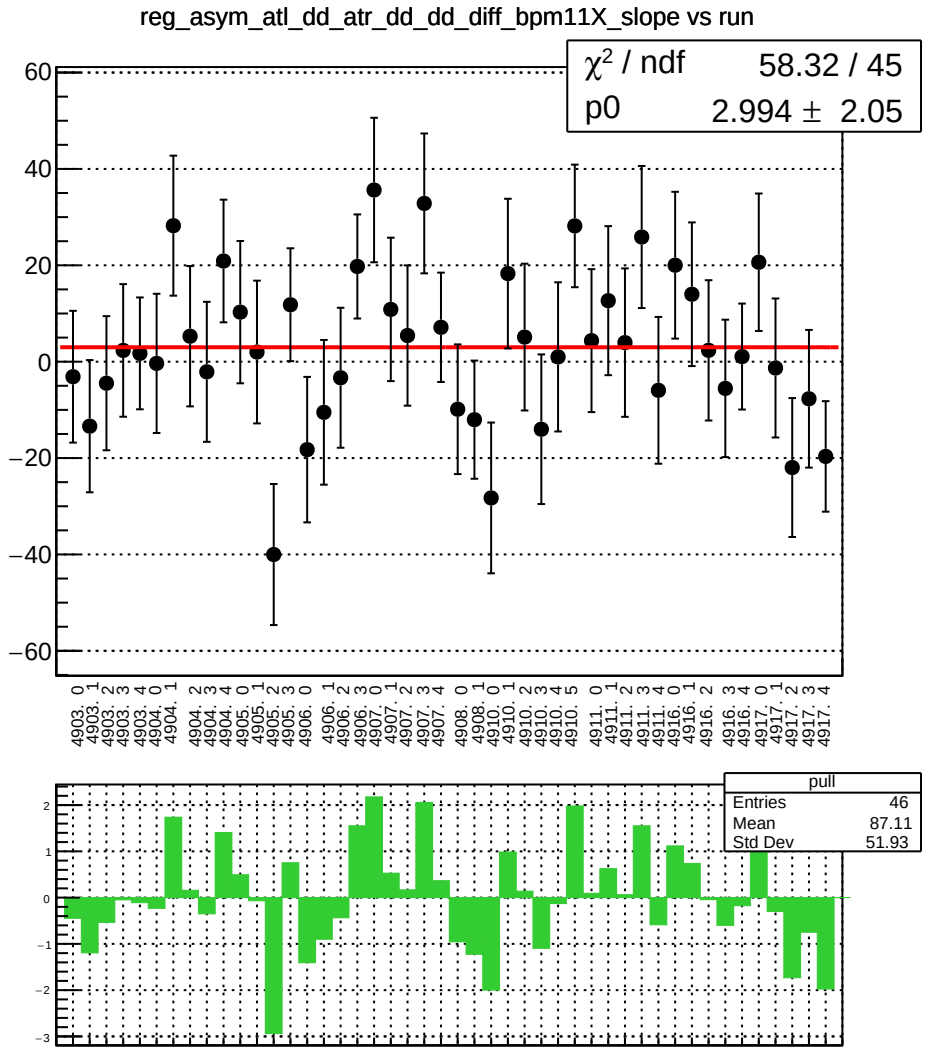

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.07 / 45
p0 −4.116 ± 6.501
pull
Entries 46
Mean 302.3
Std Dev 286.1
pull1D
Entries 46
Mean −0.001013
Std Dev 0.8479

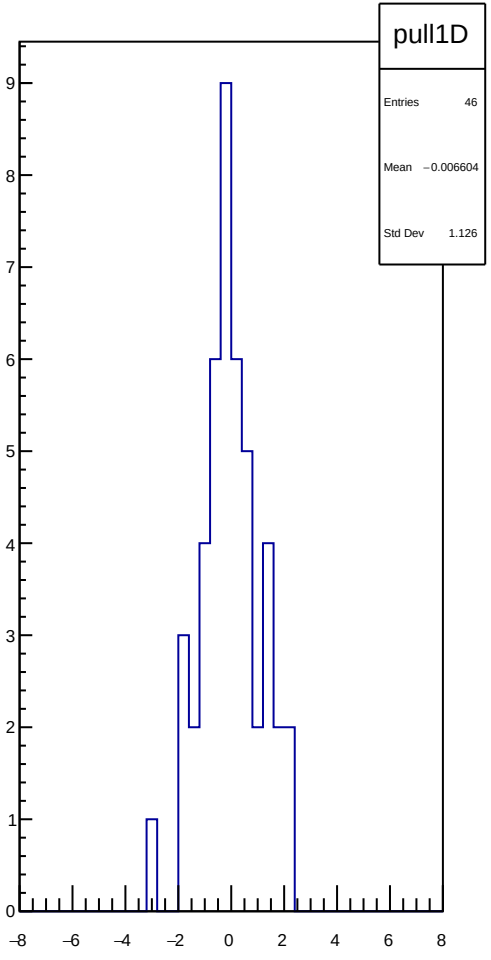

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.25 / 45
p0 4.581 ± 9.04
pull
Entries 46
Mean 70
Std Dev 45.57
pull1D
Entries 46
Mean 0.02005
Std Dev 1.076

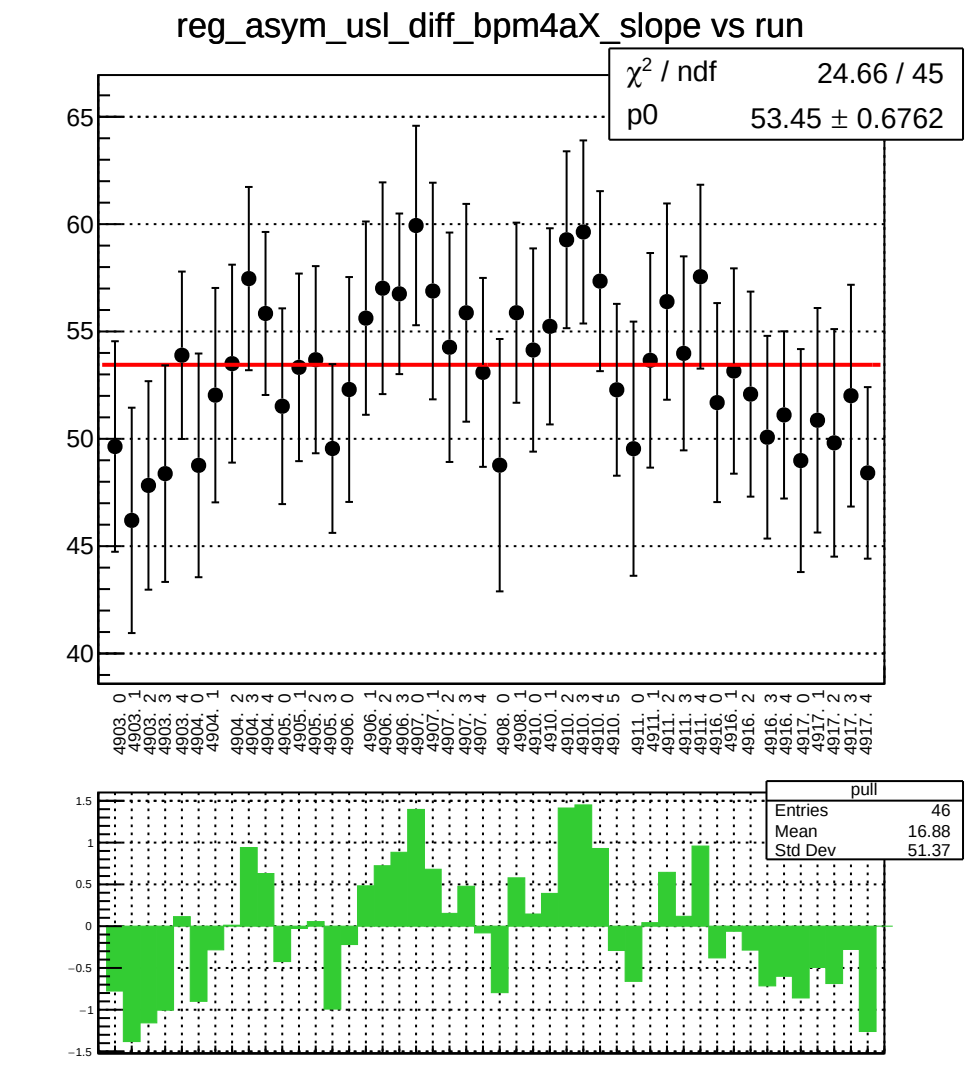

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.29 / 45
p0 16.58 ± 1.323
pull
Entries 46
Mean −267.5
Std Dev 282.8

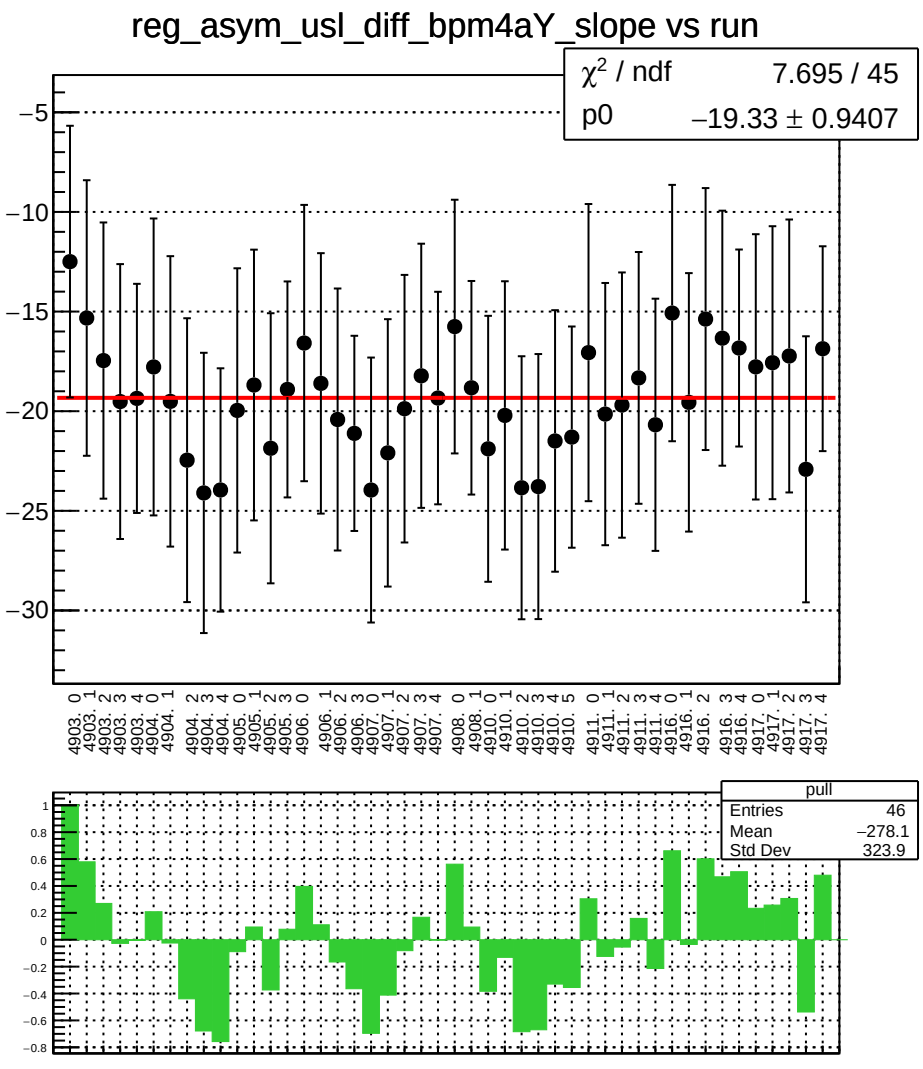

pull1D
Entries 46
Mean −0.005906
Std Dev 1.096

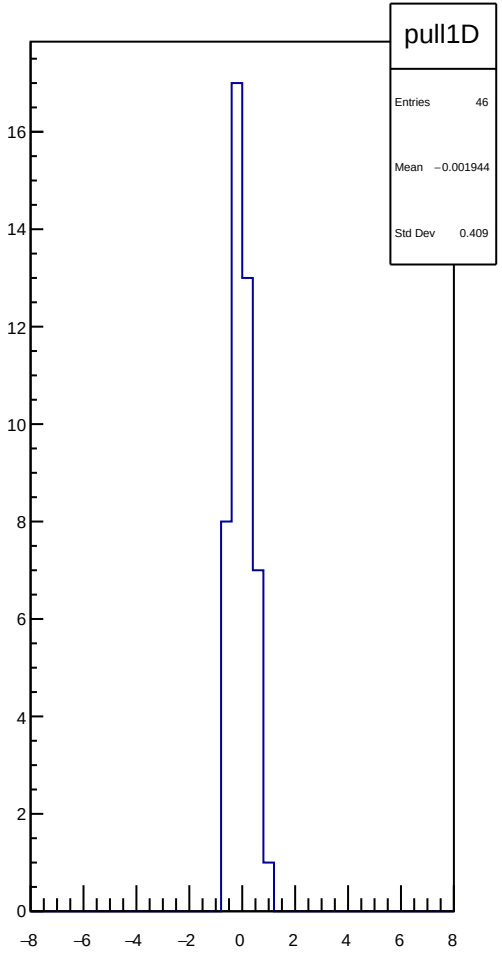

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.29 / 45
p0 −8.22 ± 10.43
200
100
0
−100
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 80.78
Std Dev 58.81
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.02172
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

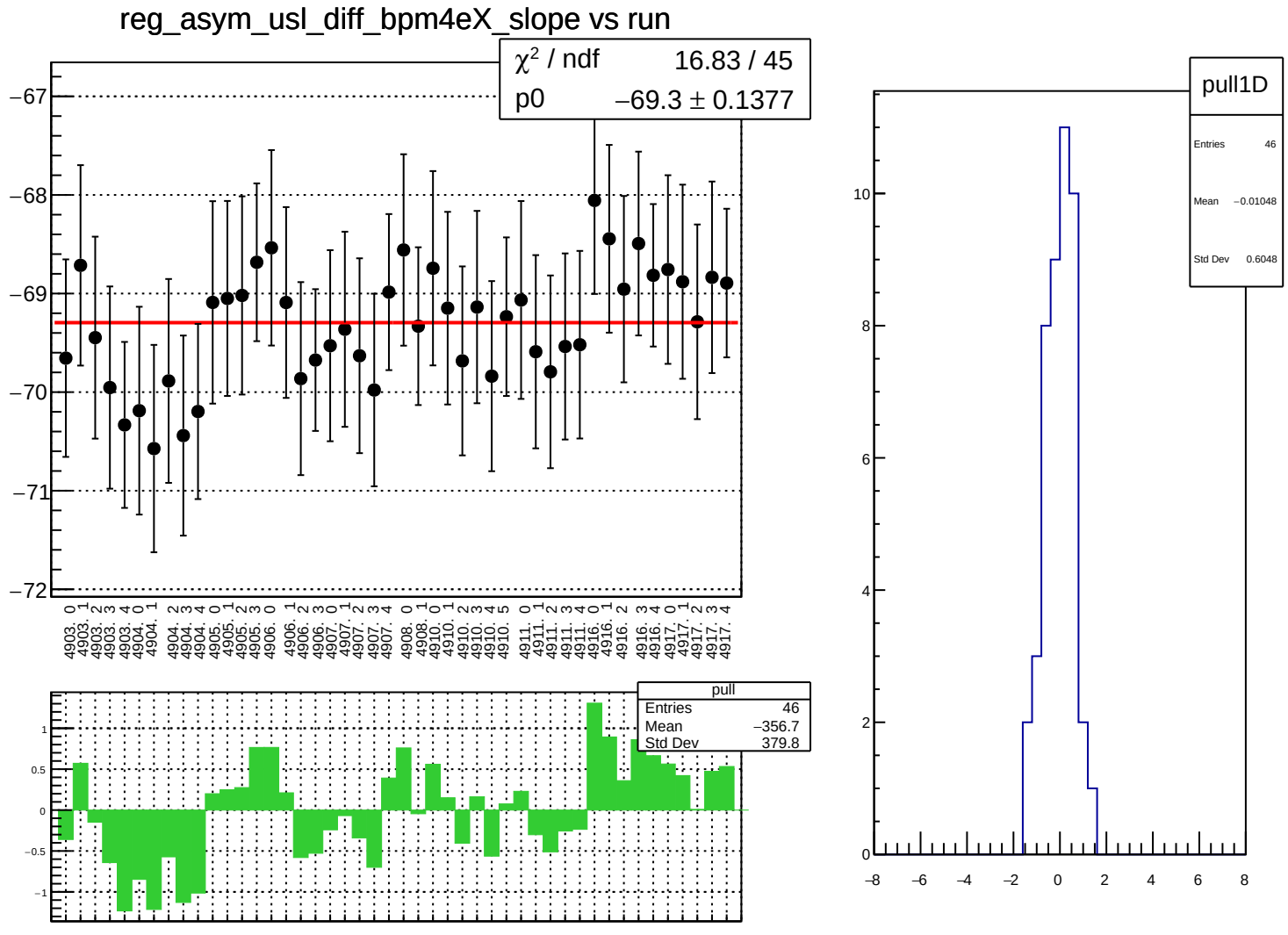

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 58.32 / 45
p0 2.994 ± 2.05
pull
Entries 46
Mean 87.11
Std Dev 51.93

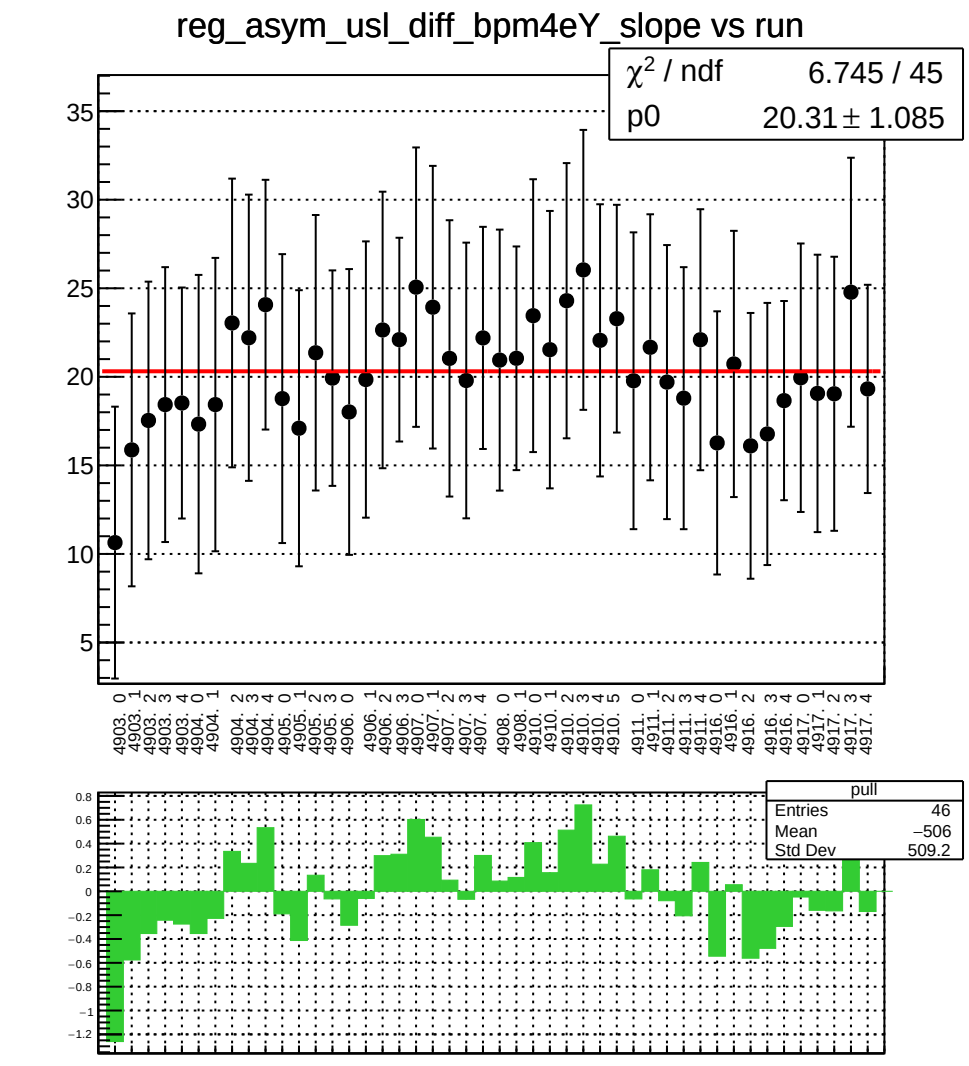

pull1D
Entries 46
Mean −0.006604
Std Dev 1.126

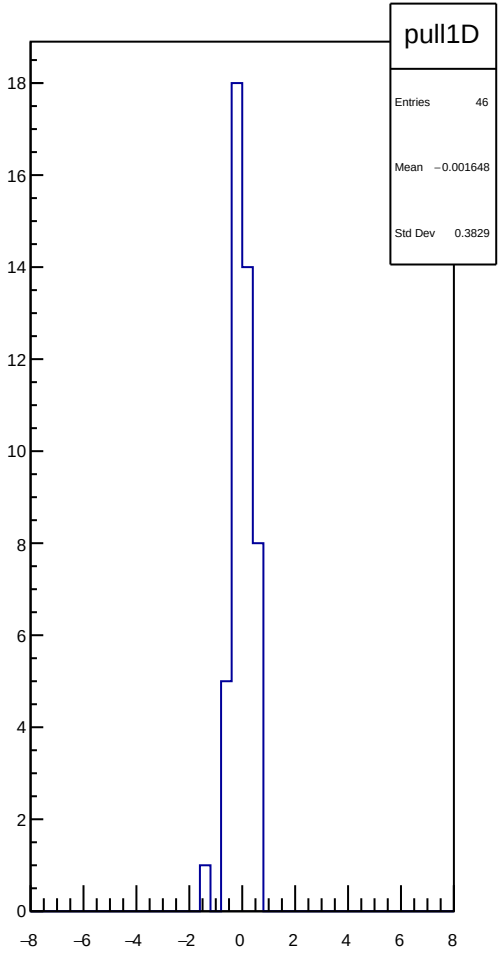

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 24.66 / 45
p0 53.45 ± 0.6762
65
60
55
50
45
40
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 16.88
Std Dev 51.37
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.03018
Std Dev 0.7316
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

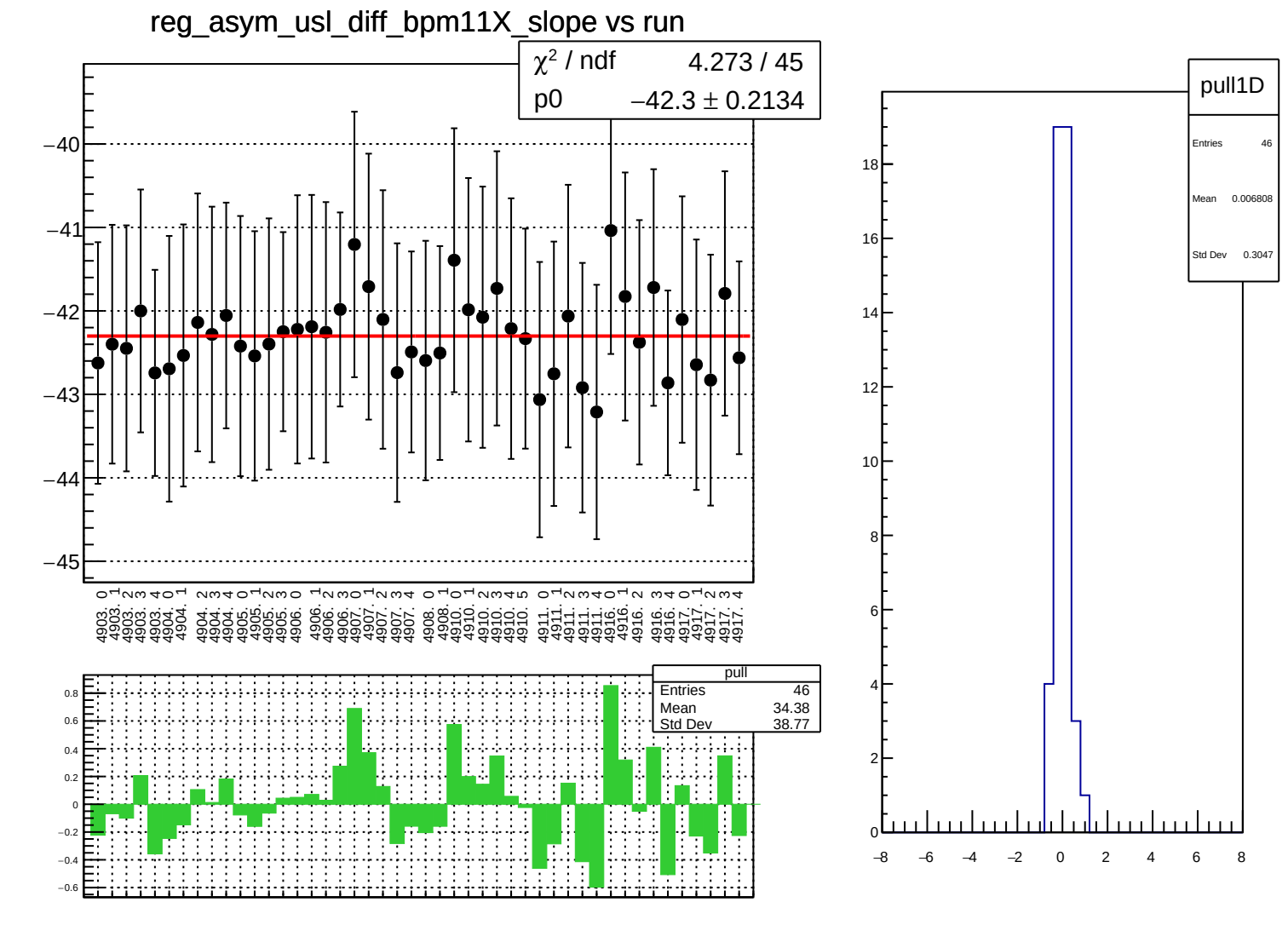

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 7.695 / 45
p0 −19.33 ± 0.9407
pull
Entries 46
Mean −278.1
Std Dev 323.9

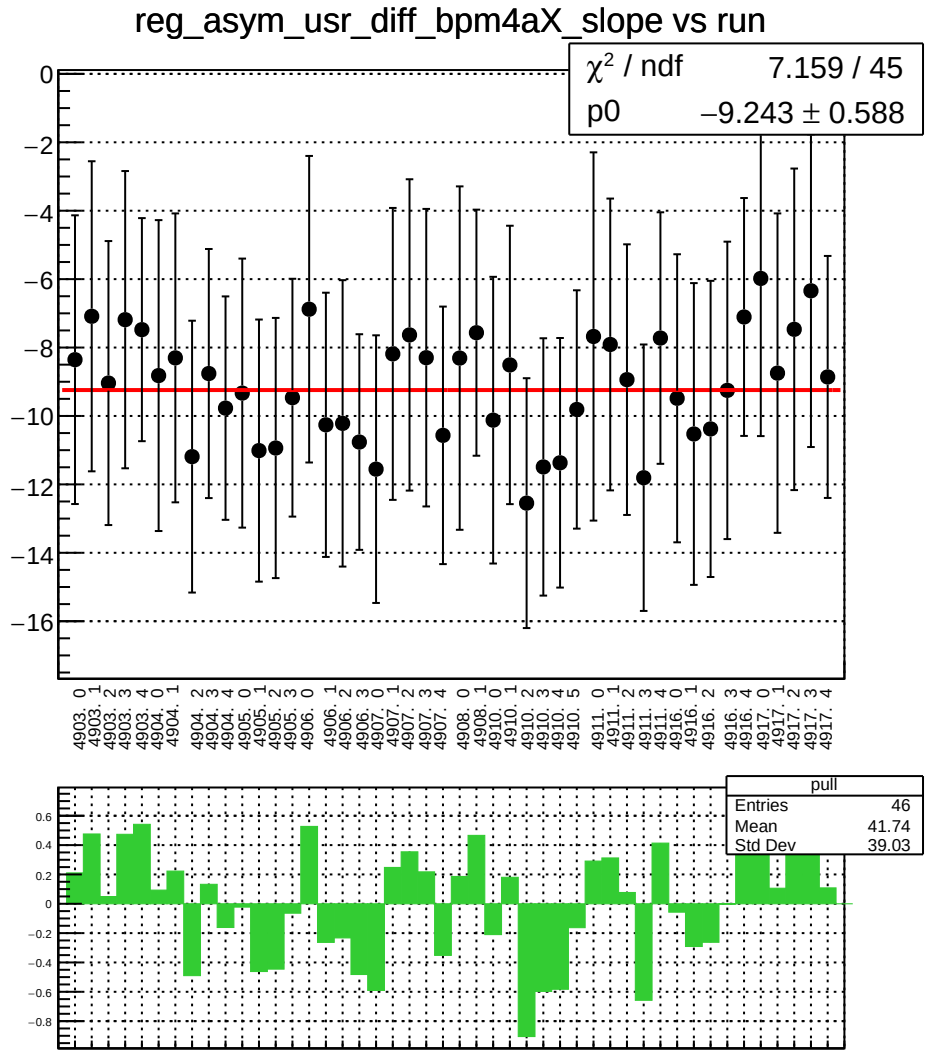

pull1D
Entries 46
Mean −0.001944
Std Dev 0.409

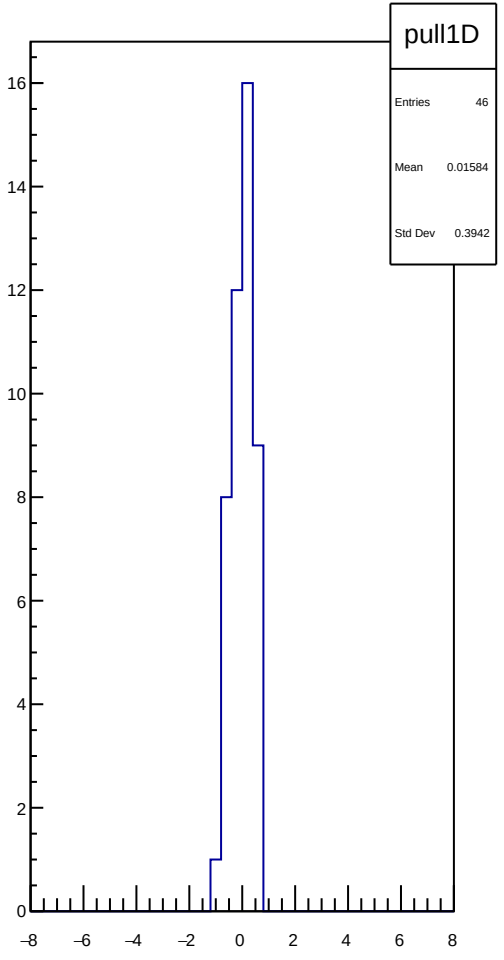

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 16.83 / 45
p0 −69.3 ± 0.1377
−67
−68
−69
−70
−71
−72
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −356.7
Std Dev 379.8
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01048
Std Dev 0.6048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

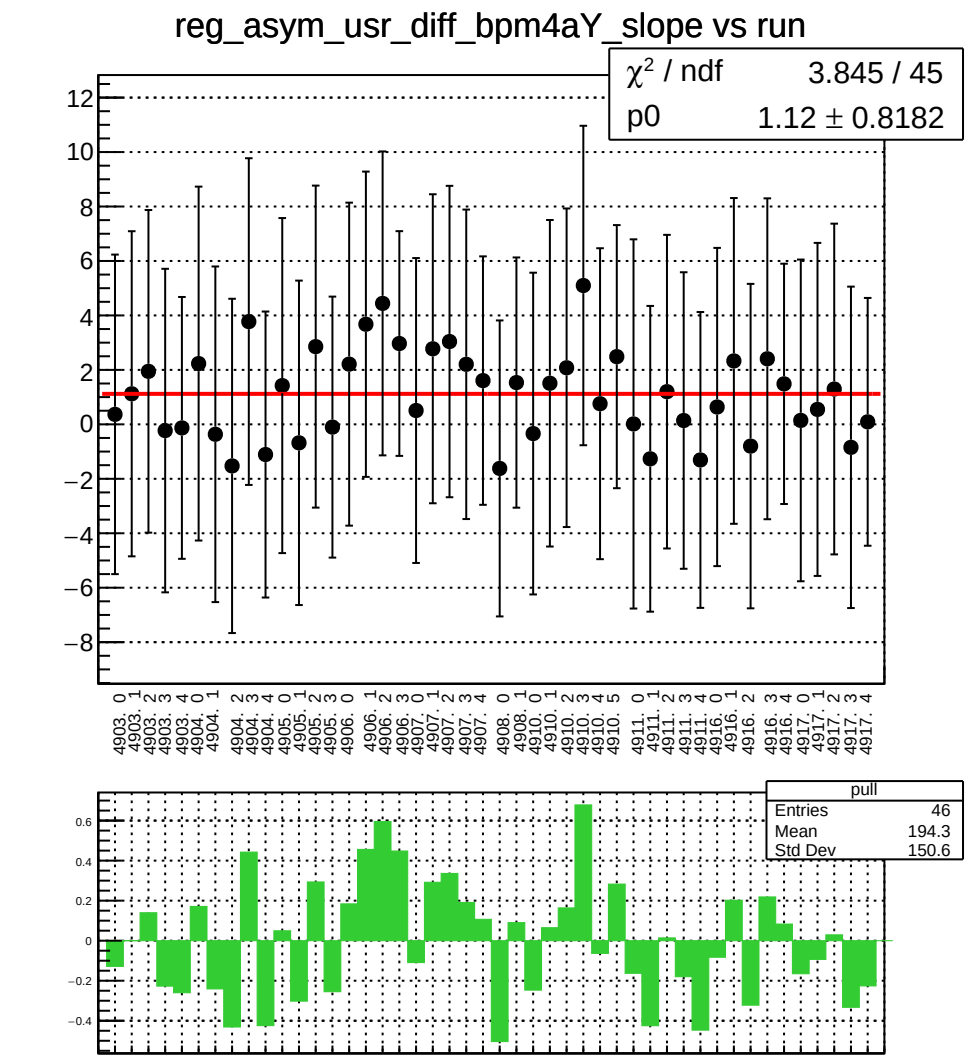

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 6.745 / 45
p0 20.31 ± 1.085
pull
Entries 46
Mean −506
Std Dev 509.2

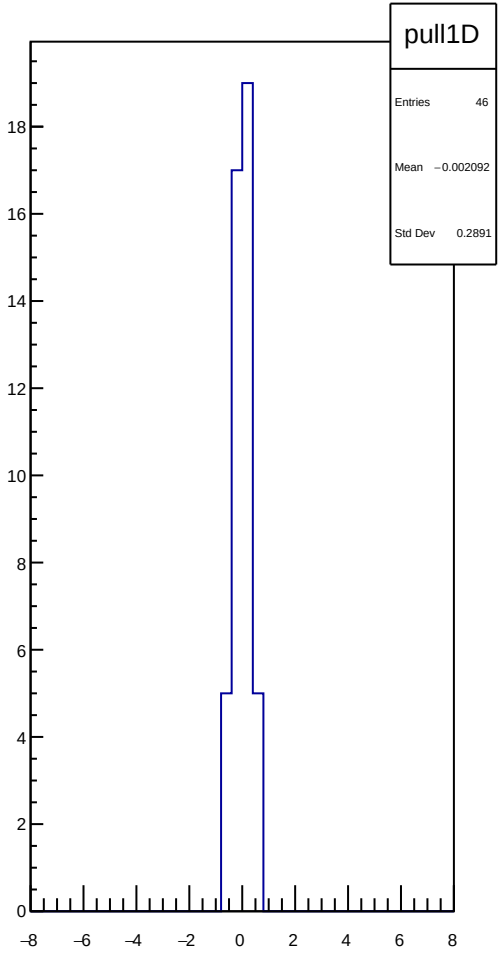

pull1D
Entries 46
Mean −0.001648
Std Dev 0.3829

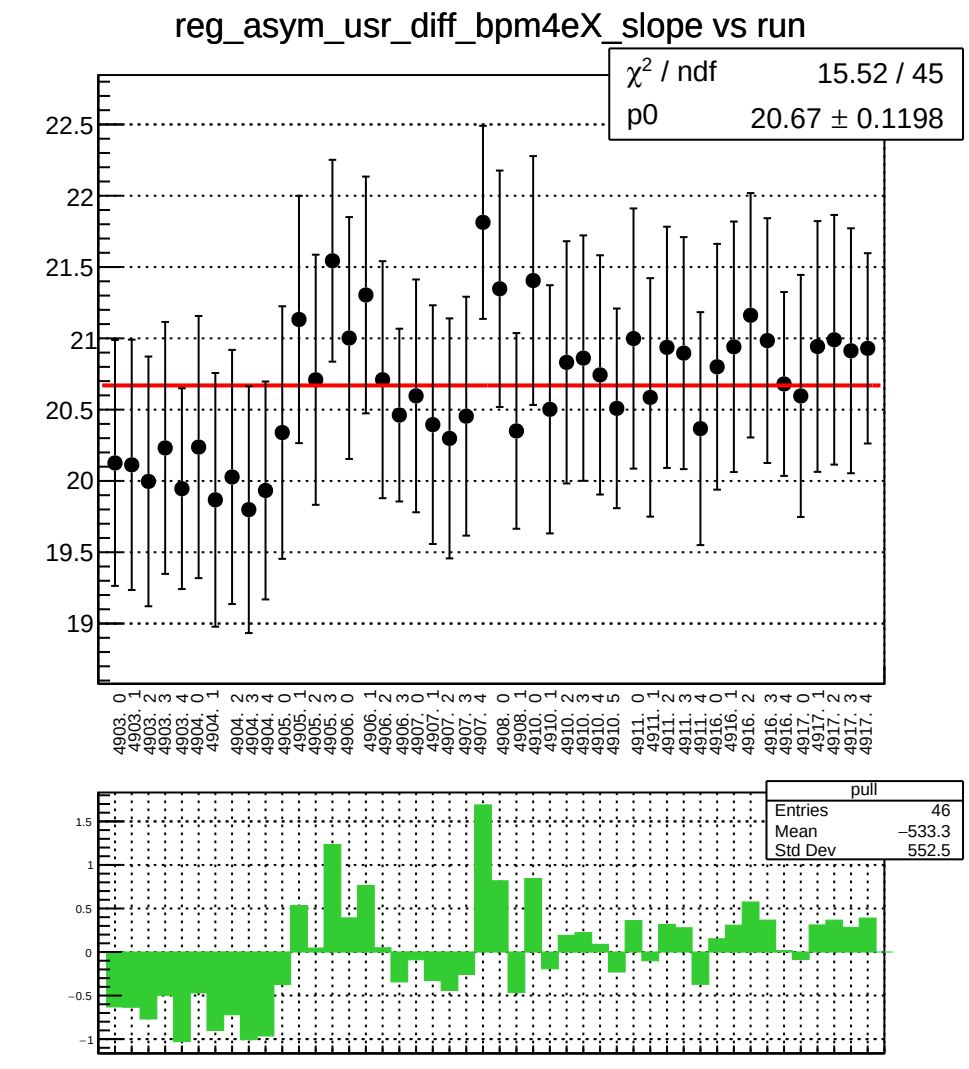

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 4.273 / 45
p0 −42.3 ± 0.2134
pull
Entries 46
Mean 34.38
Std Dev 38.77
pull1D
Entries 46
Mean 0.006808
Std Dev 0.3047

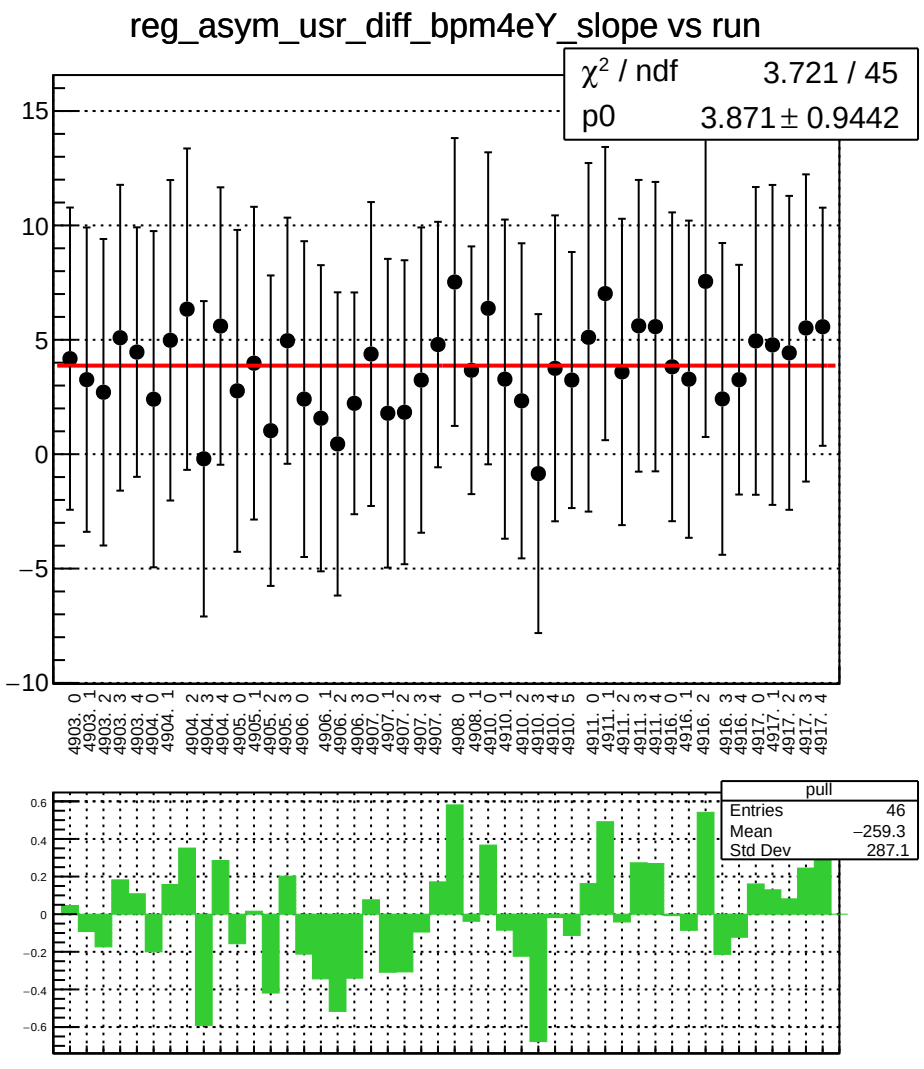

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 7.159 / 45
p0 −9.243 ± 0.588
pull
Entries 46
Mean 41.74
Std Dev 39.03

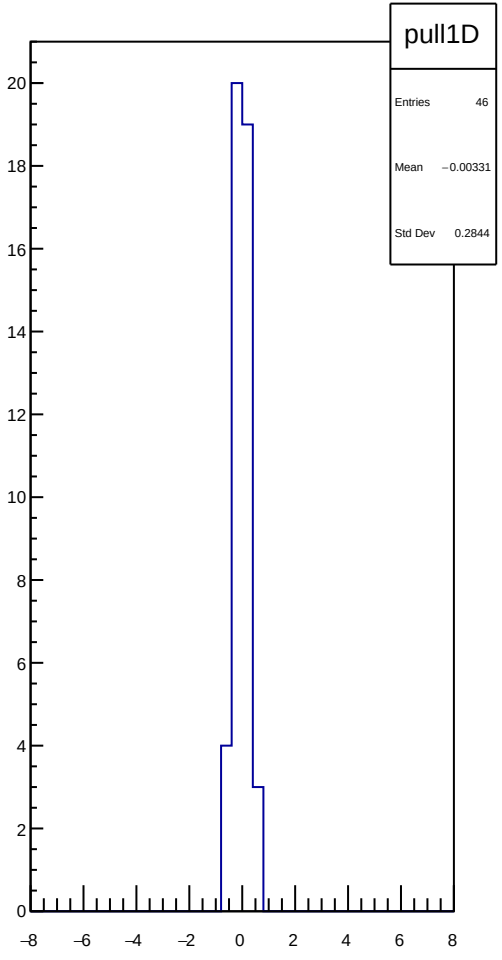

pull1D
Entries 46
Mean 0.01584
Std Dev 0.3942

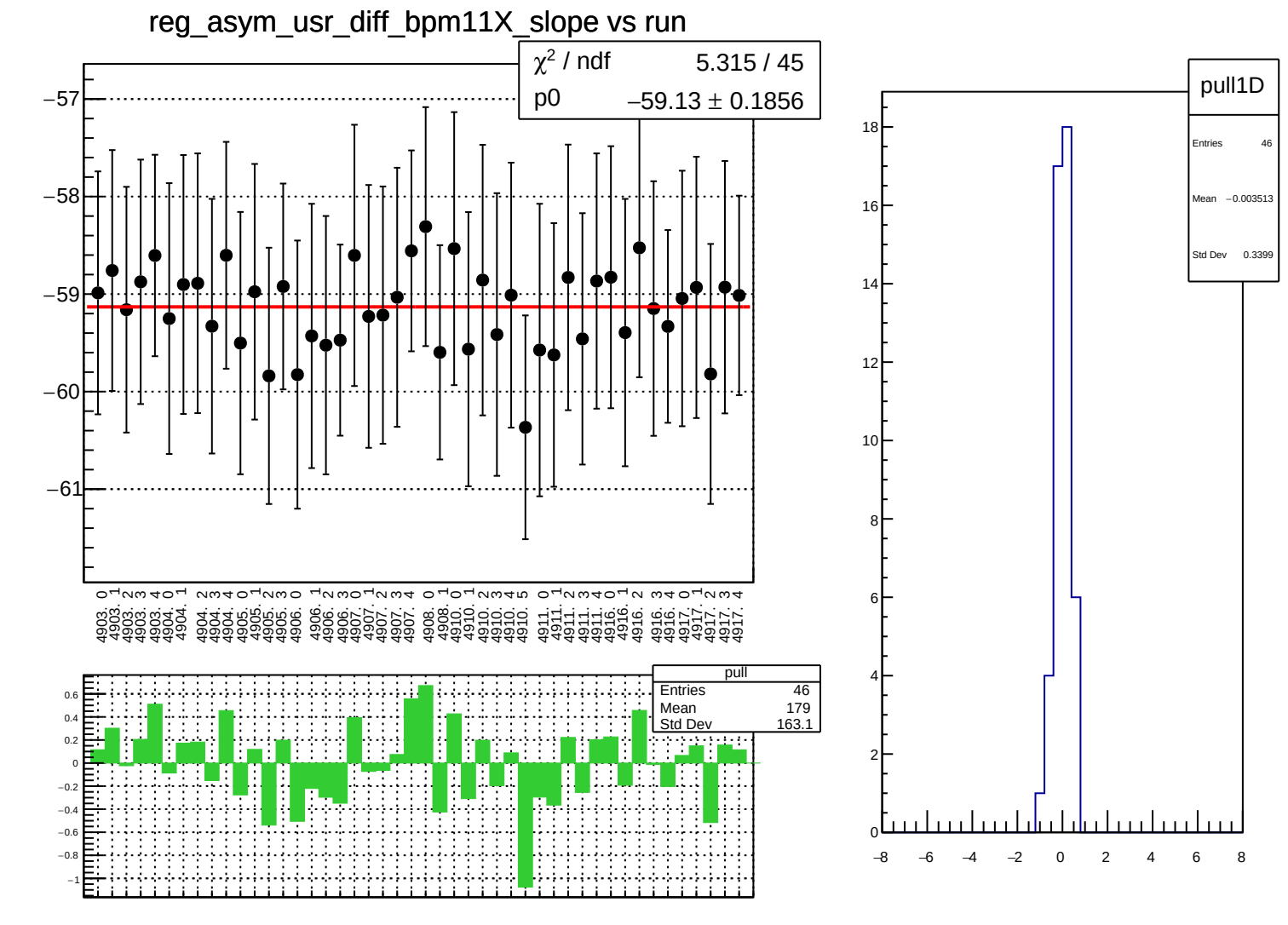

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 3.845 / 45
p0 1.12 ± 0.8182
pull
Entries 46
Mean 194.3
Std Dev 150.6

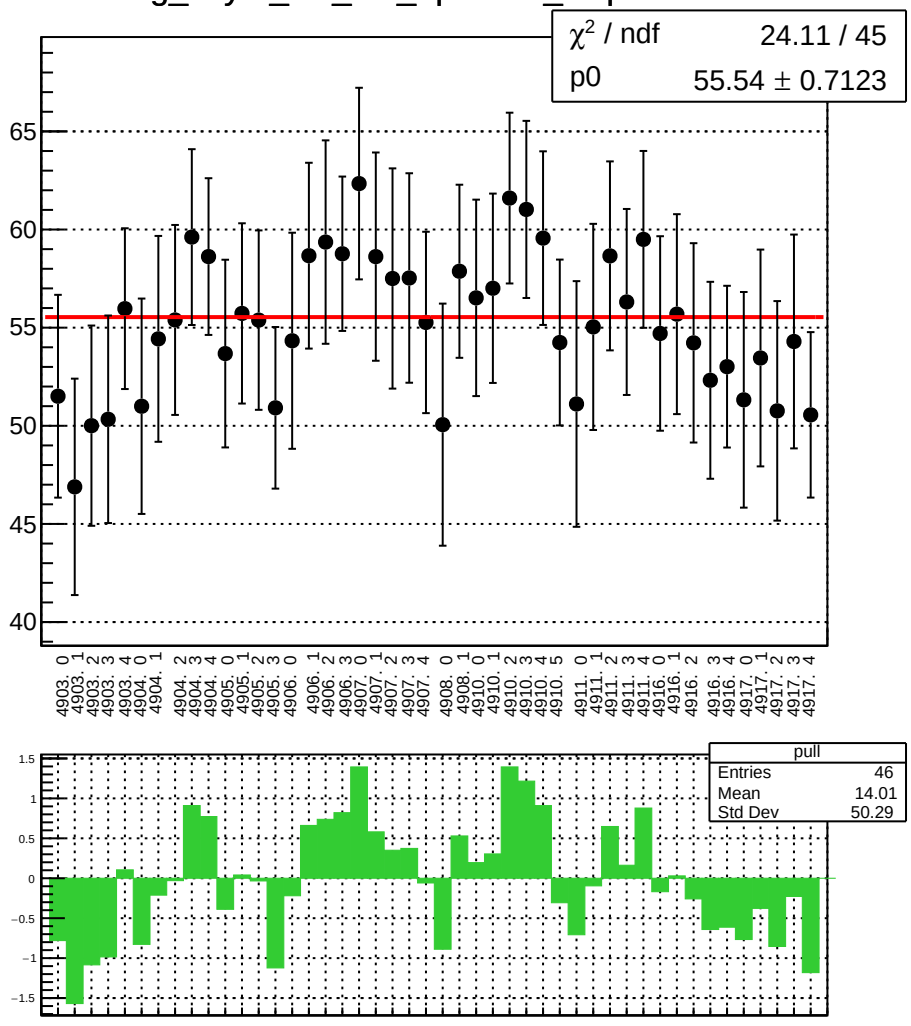

pull1D
Entries 46
Mean −0.002092
Std Dev 0.2891

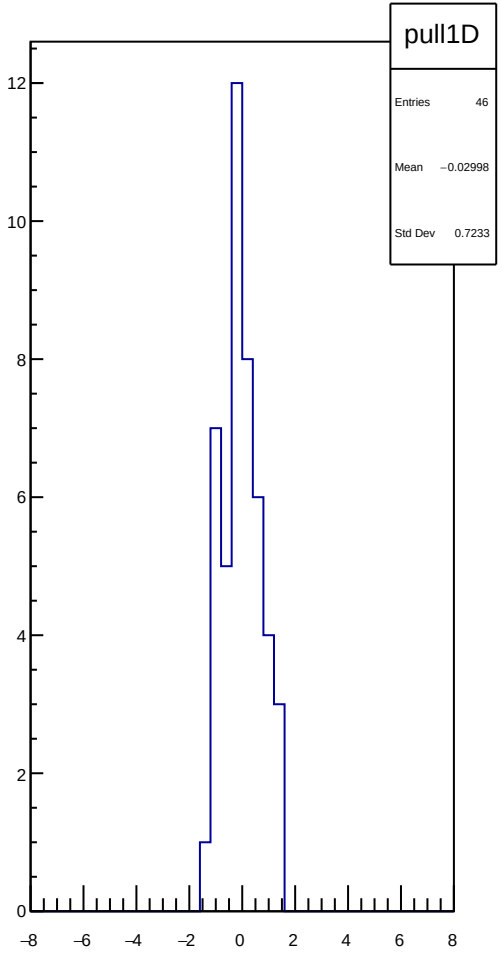

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 15.52 / 45
p0 20.67 ± 0.1198
22.5
22
21.5
21
20.5
20
19.5
19
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −533.3
Std Dev 552.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.006635
Std Dev 0.5807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

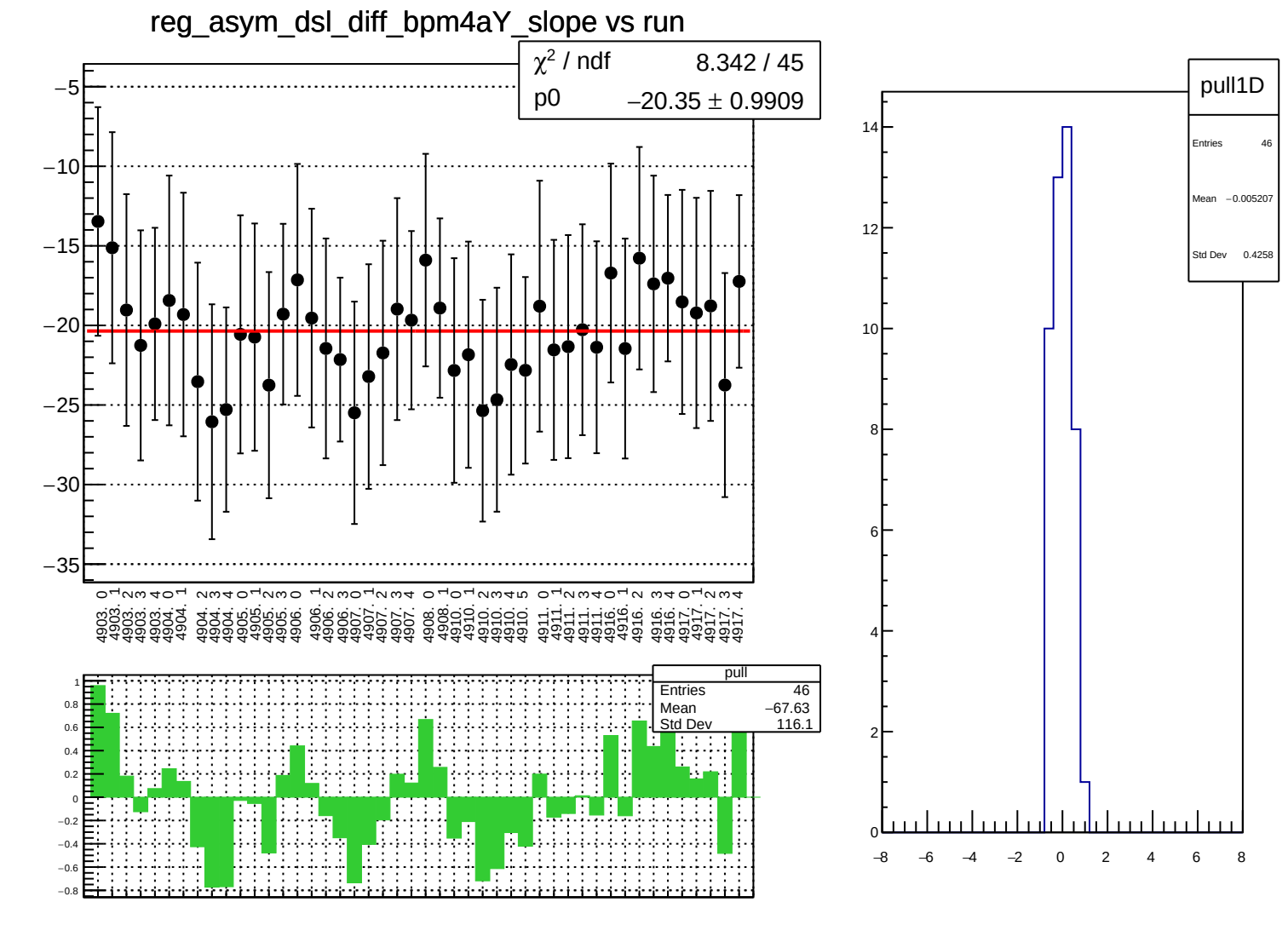

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 3.721 / 45
p0 3.871 ± 0.9442
pull
Entries 46
Mean −259.3
Std Dev 287.1

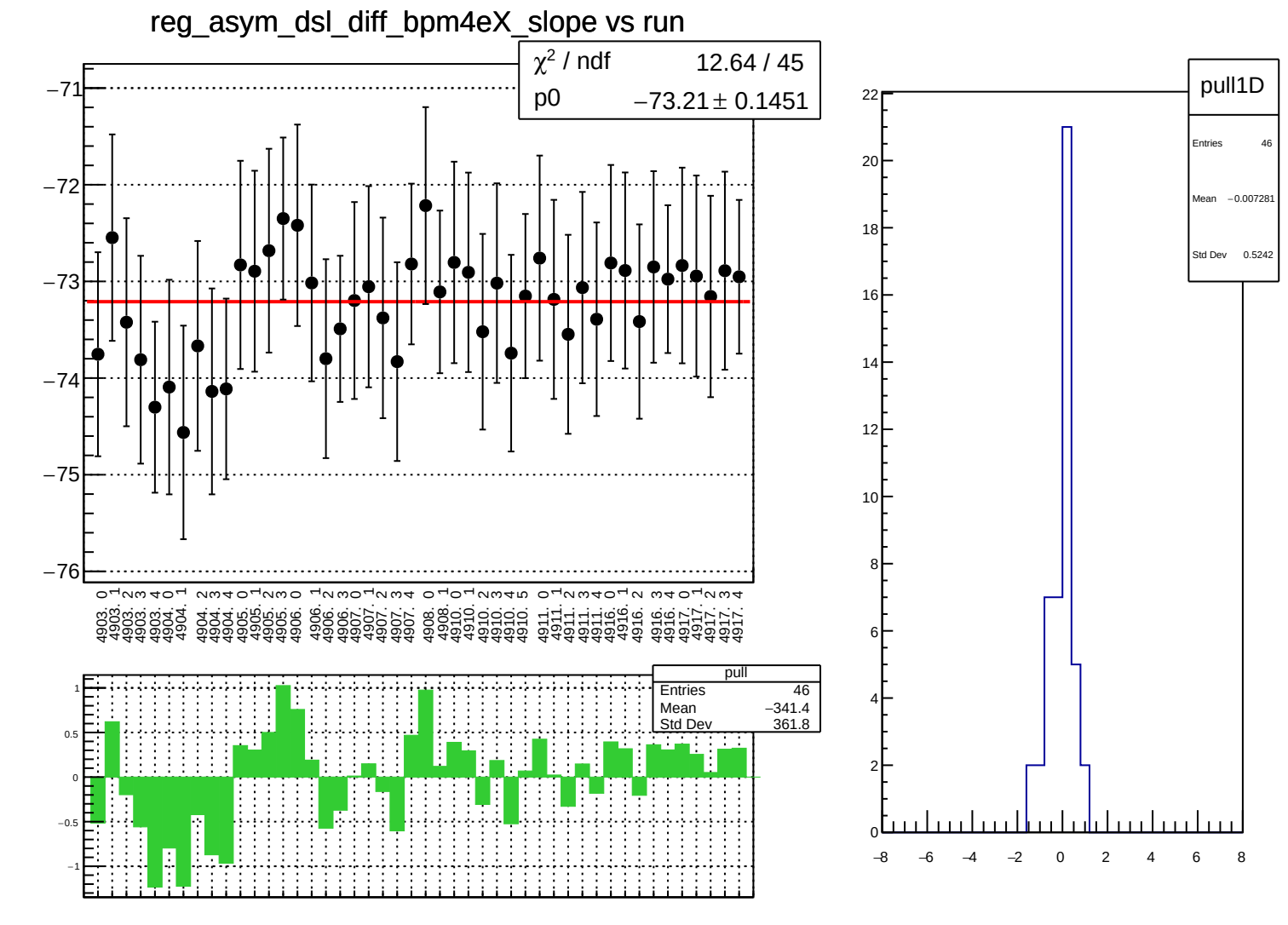

pull1D
Entries 46
Mean −0.00331
Std Dev 0.2844

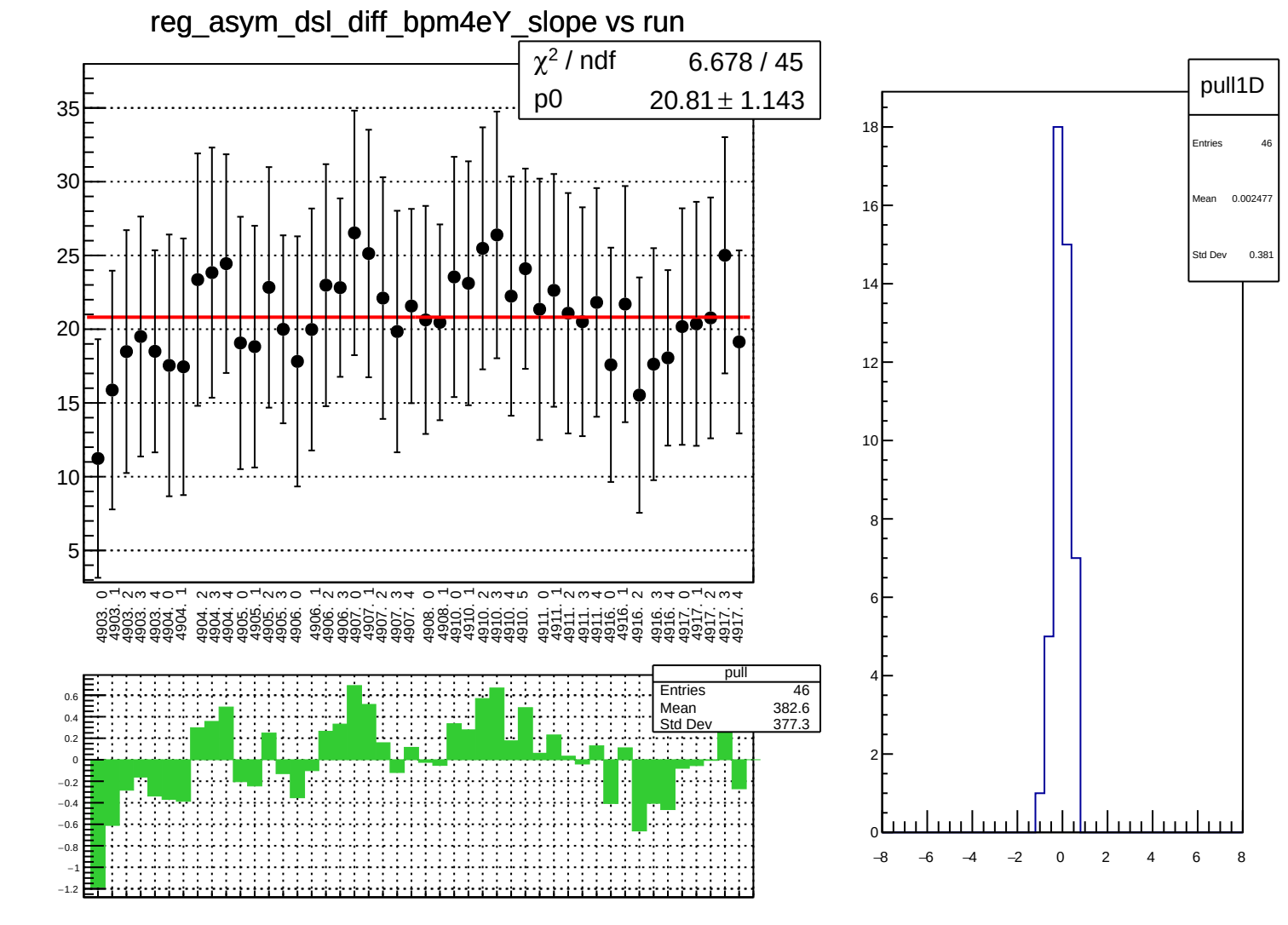

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 5.315 / 45
p0 −59.13 ± 0.1856
−57
−58
−59
−60
−61
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 179
Std Dev 163.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 46
Mean −0.003513
Std Dev 0.3399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

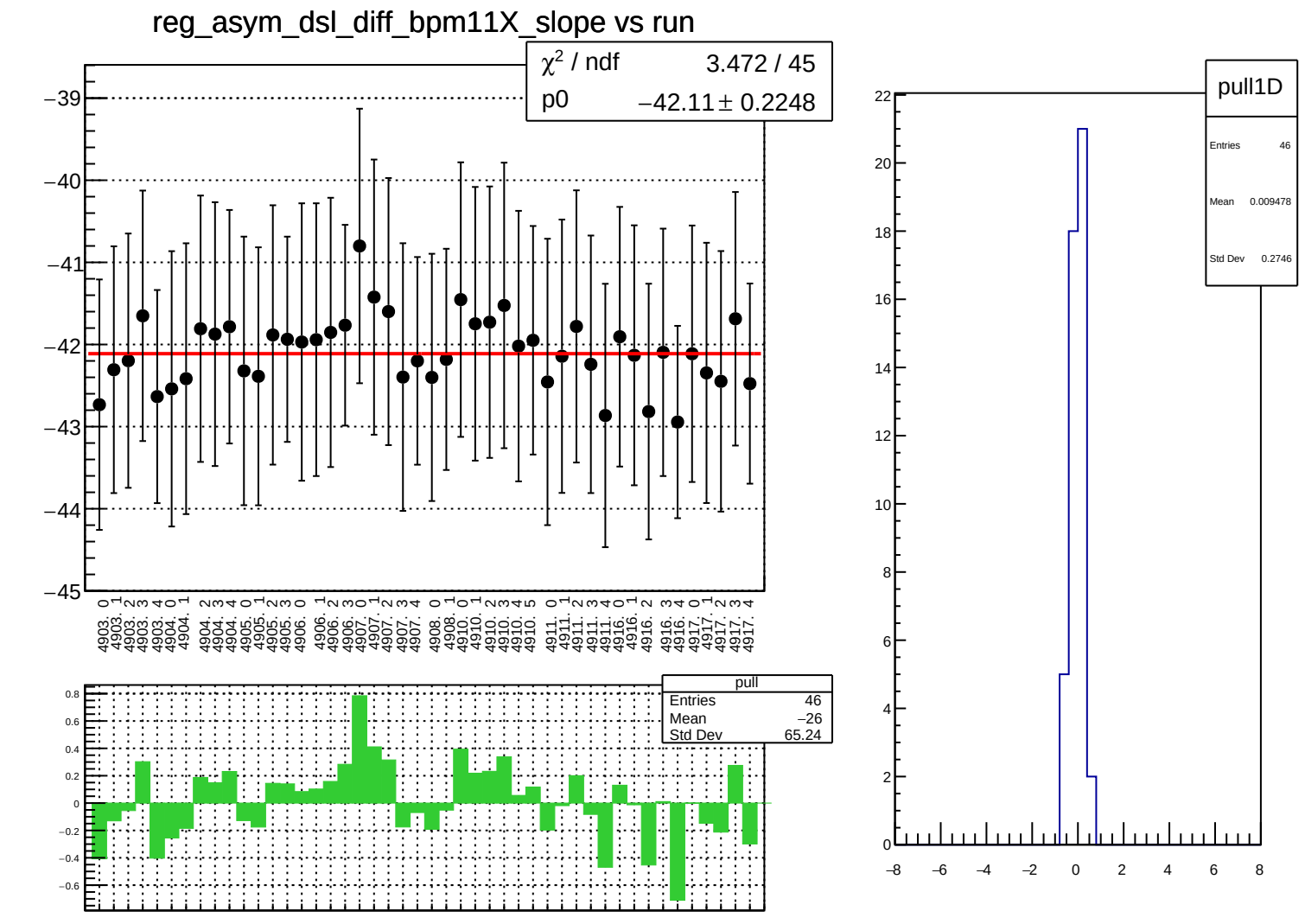

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 24.11 / 45
p0 55.54 ± 0.7123
pull
Entries 46
Mean 14.01
Std Dev 50.29

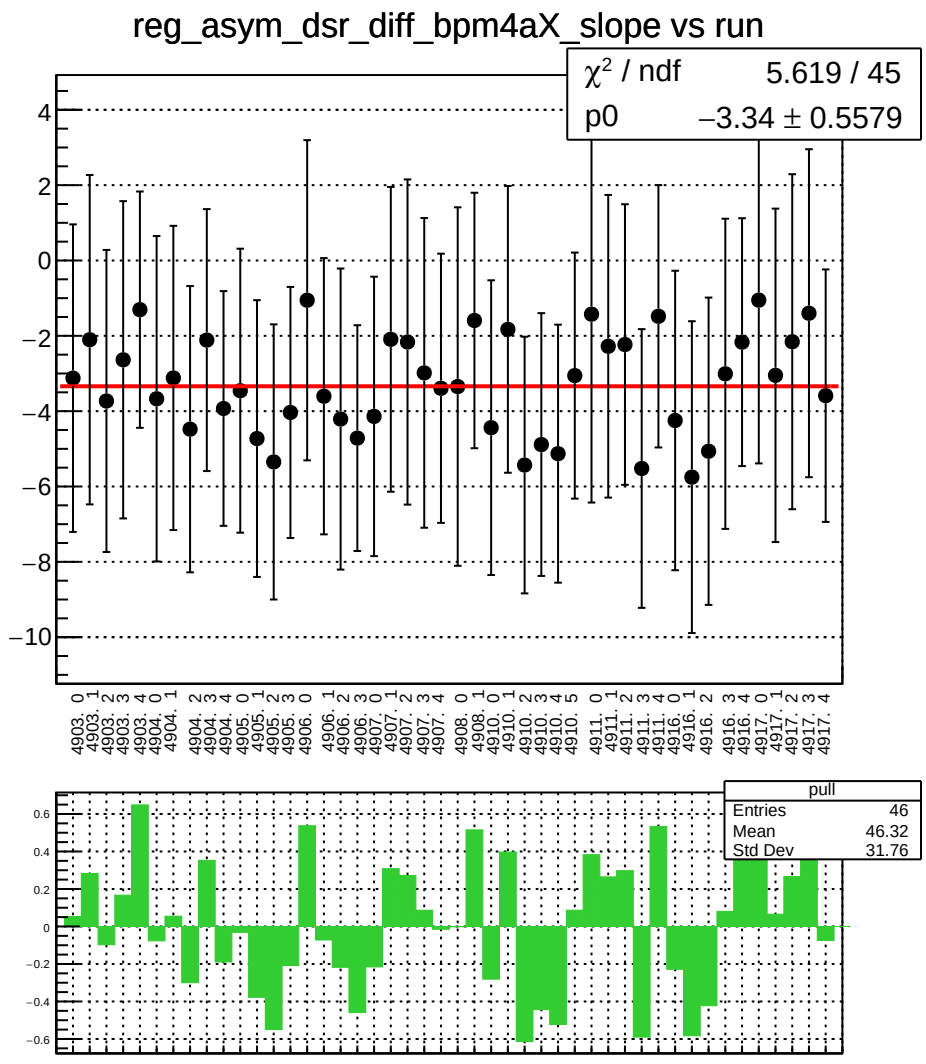

pull1D
Entries 46
Mean −0.02998
Std Dev 0.7233

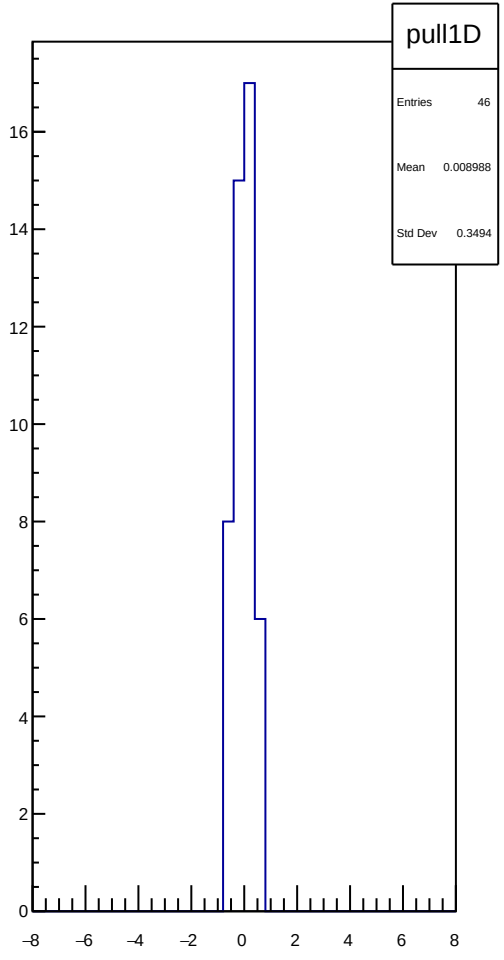

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 8.342 / 45
p0 −20.35 ± 0.9909
pull
Entries 46
Mean −67.63
Std Dev 116.1
pull1D
Entries 46
Mean −0.005207
Std Dev 0.4258

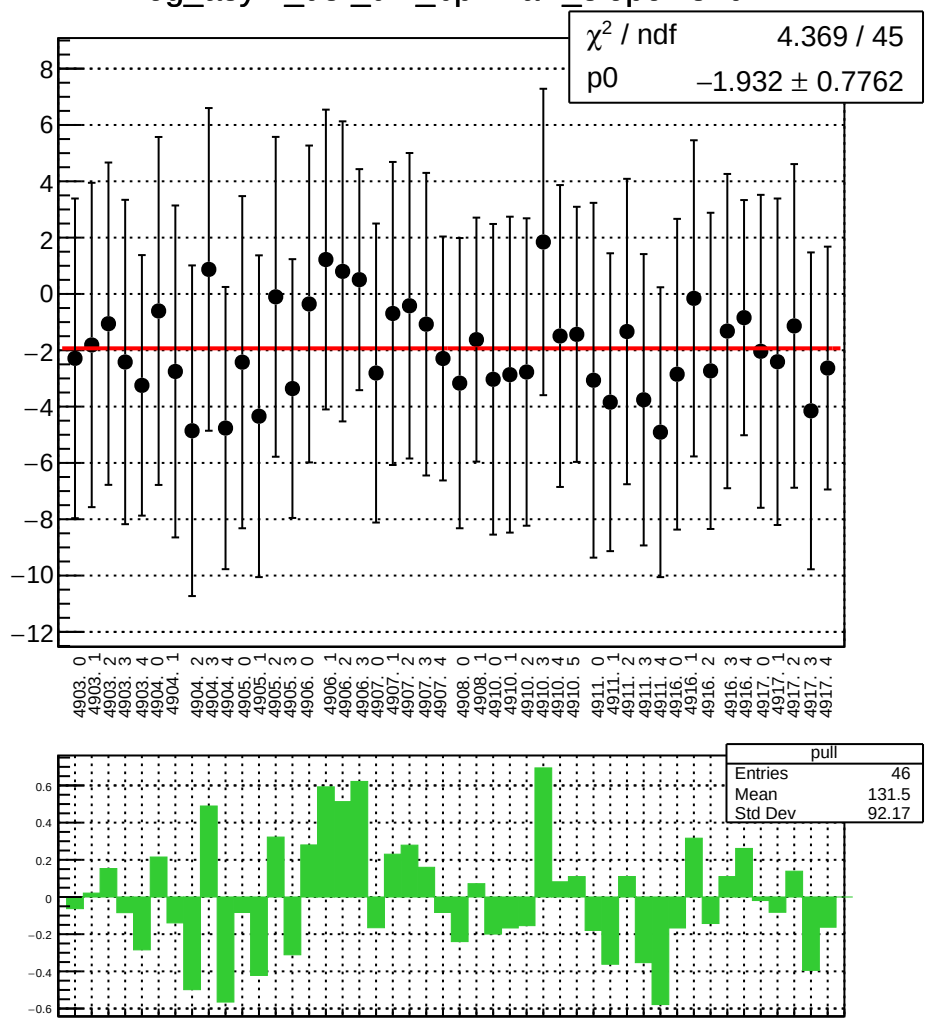

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 12.64 / 45
p0 −73.21 ± 0.1451
−71
−72
−73
−74
−75
−76
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −341.4
Std Dev 361.8
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.007281
Std Dev 0.5242
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

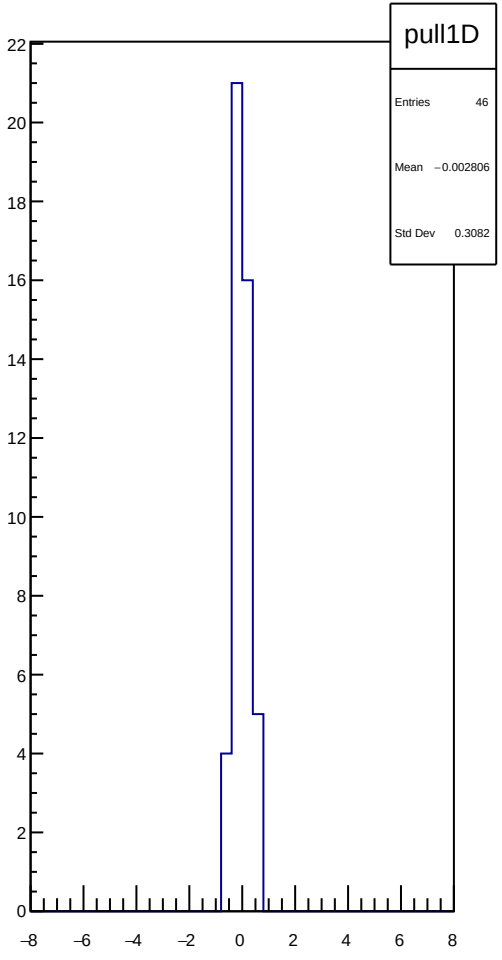

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 6.678 / 45
p0 20.81 ± 1.143
pull
Entries 46
Mean 382.6
Std Dev 377.3
pull1D
Entries 46
Mean 0.002477
Std Dev 0.381

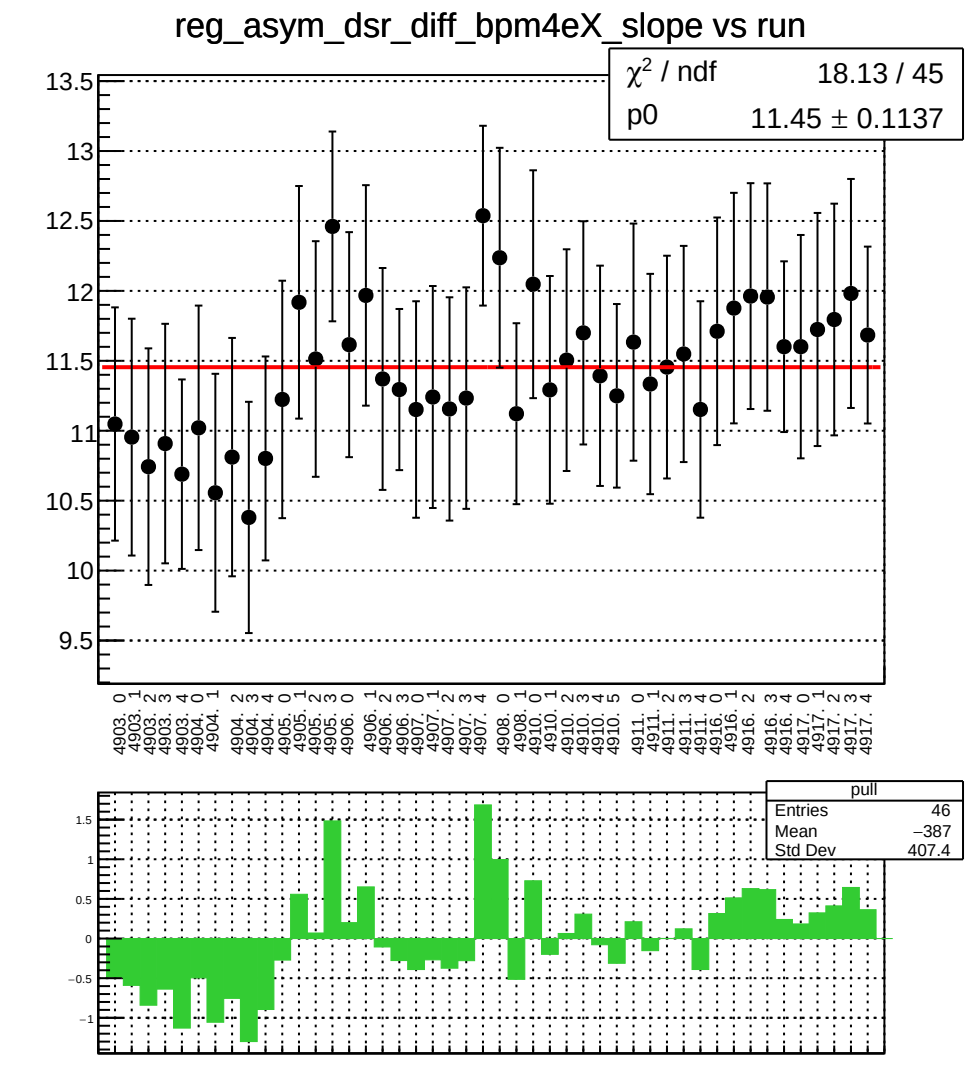

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 3.472 / 45
p0 −42.11 ± 0.2248
pull
Entries 46
Mean −26
Std Dev 65.24
pull1D
Entries 46
Mean 0.009478
Std Dev 0.2746

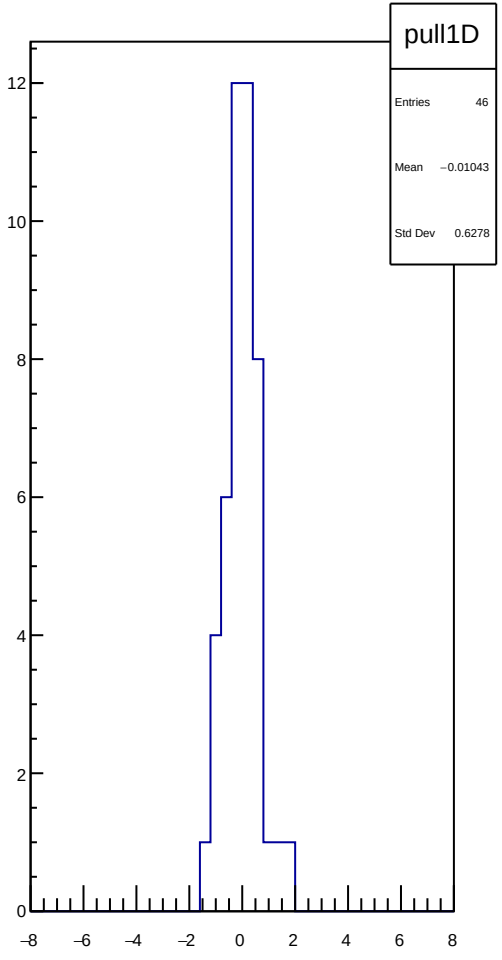

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 5.619 / 45
p0 −3.34 ± 0.5579
pull
Entries 46
Mean 46.32
Std Dev 31.76

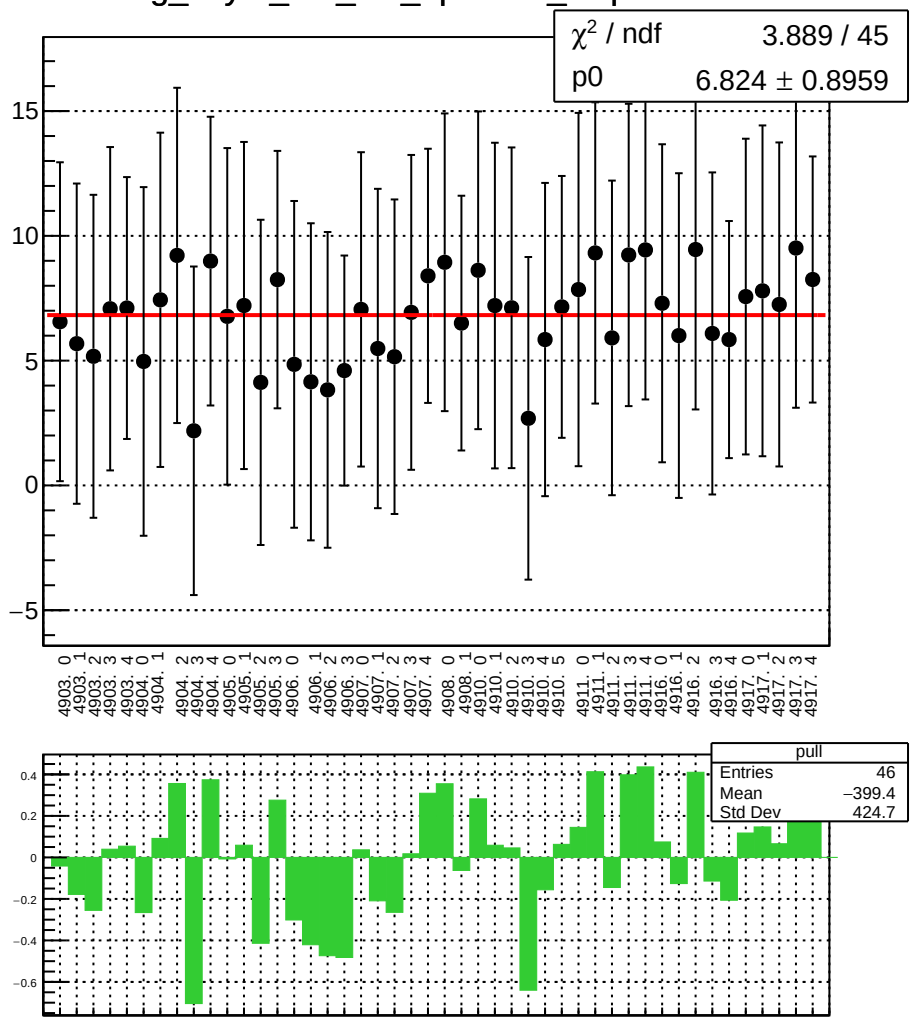

pull1D
Entries 46
Mean 0.008988
Std Dev 0.3494

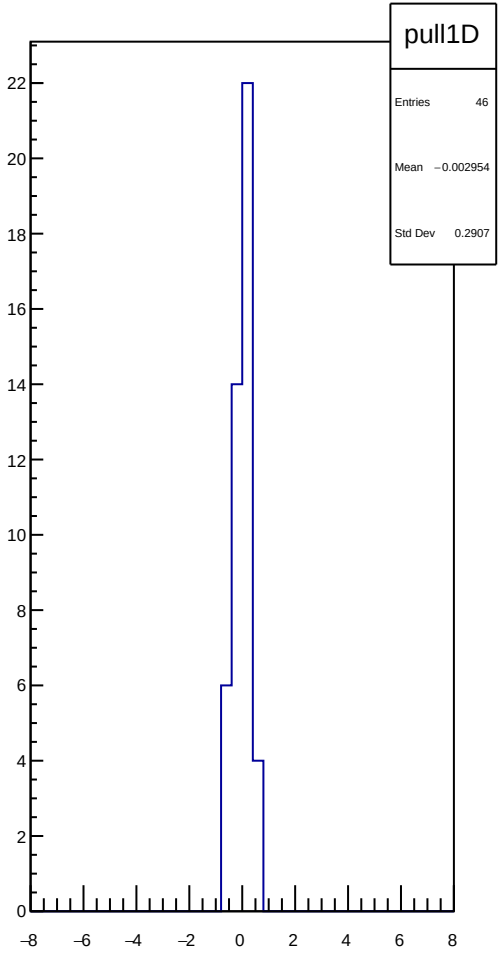

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 4.369 / 45
p0 −1.932 ± 0.7762
pull
Entries 46
Mean 131.5
Std Dev 92.17

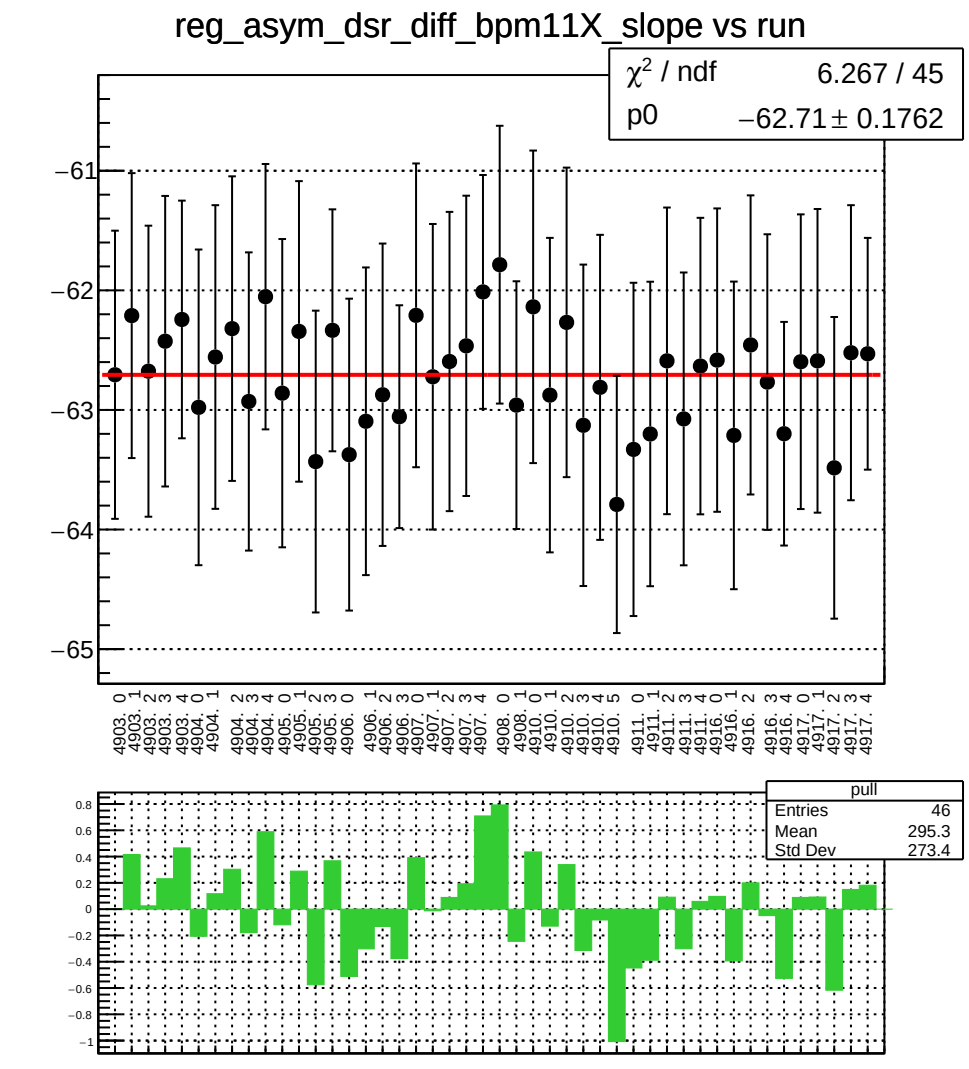

pull1D
Entries 46
Mean −0.002806
Std Dev 0.3082

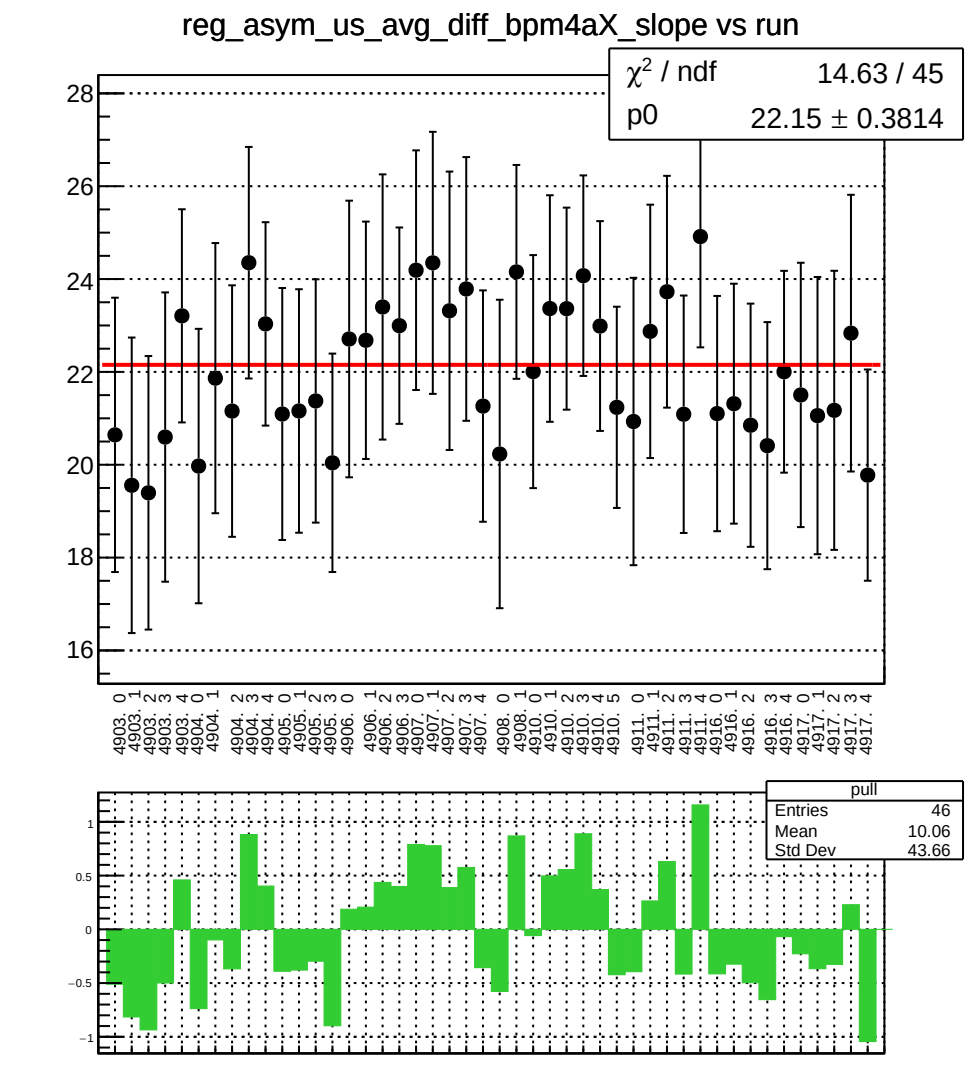

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 18.13 / 45
p0 11.45 ± 0.1137
pull
Entries 46
Mean −387
Std Dev 407.4

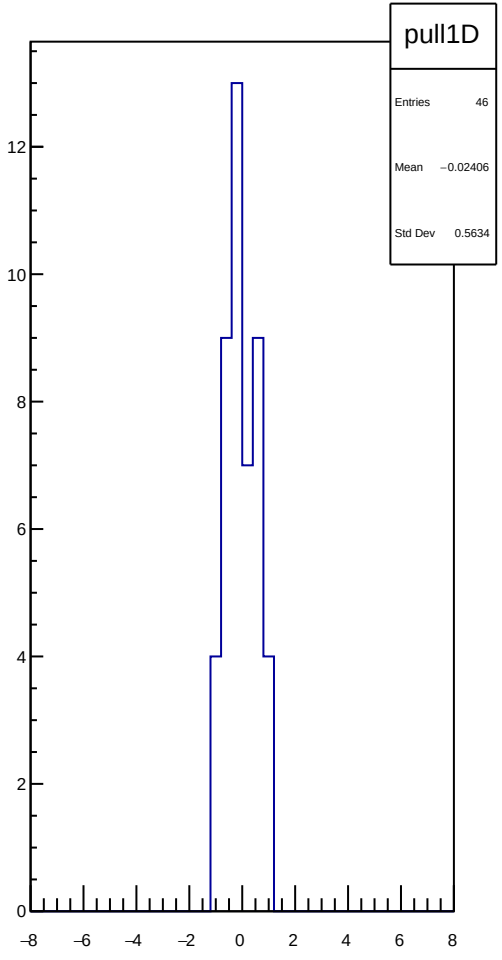

pull1D
Entries 46
Mean −0.01043
Std Dev 0.6278

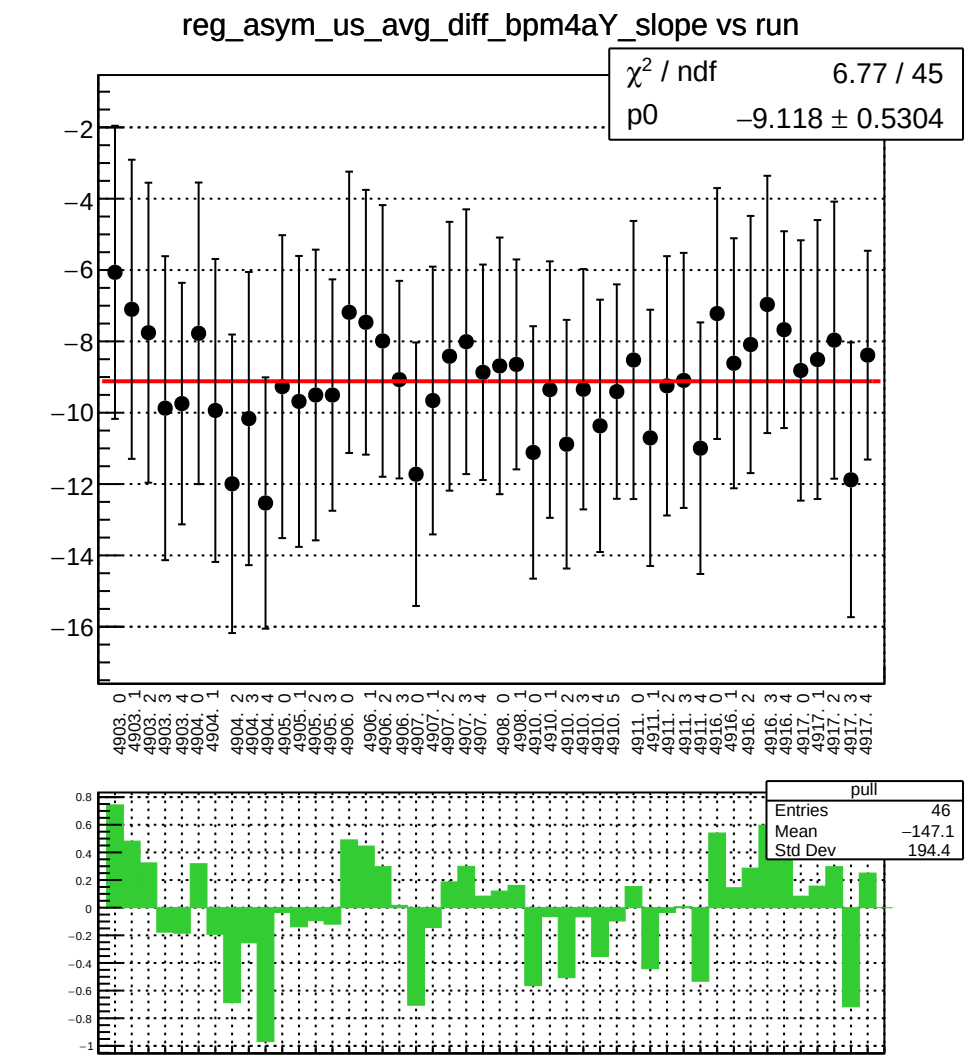

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 3.889 / 45
p0 6.824 ± 0.8959
pull
Entries 46
Mean −399.4
Std Dev 424.7

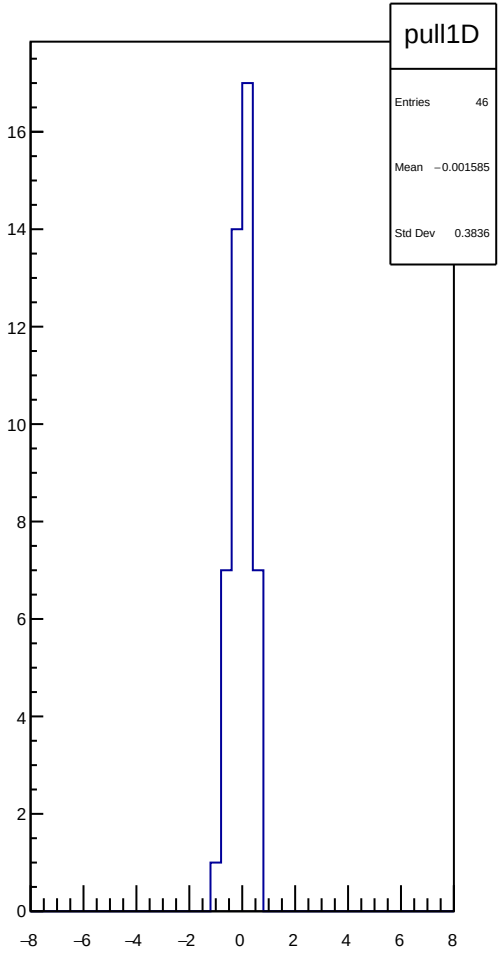

pull1D
Entries 46
Mean −0.002954
Std Dev 0.2907

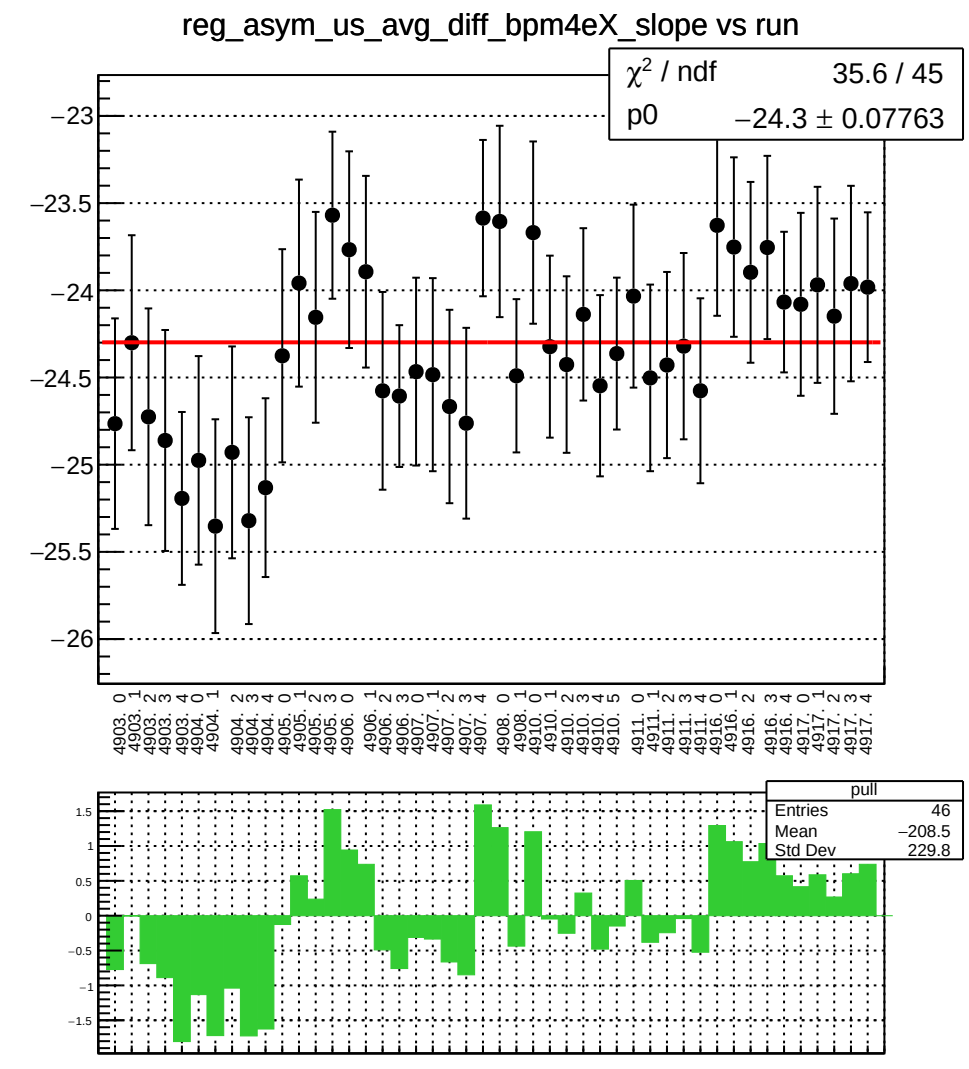

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 6.267 / 45
p0 −62.71 ± 0.1762
−61
−62
−63
−64
−65
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 295.3
Std Dev 273.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 46
Mean −0.004265
Std Dev 0.3691
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

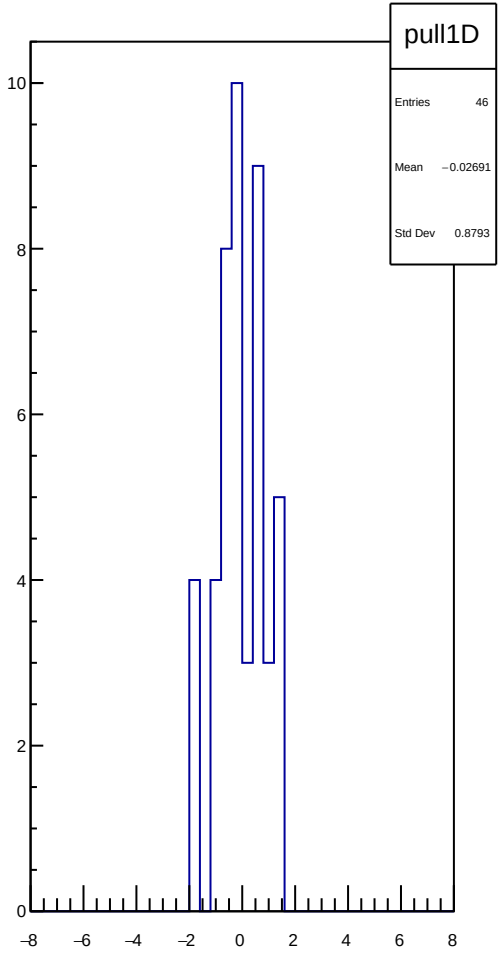

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.63 / 45
p0 22.15 ± 0.3814
pull
Entries 46
Mean 10.06
Std Dev 43.66

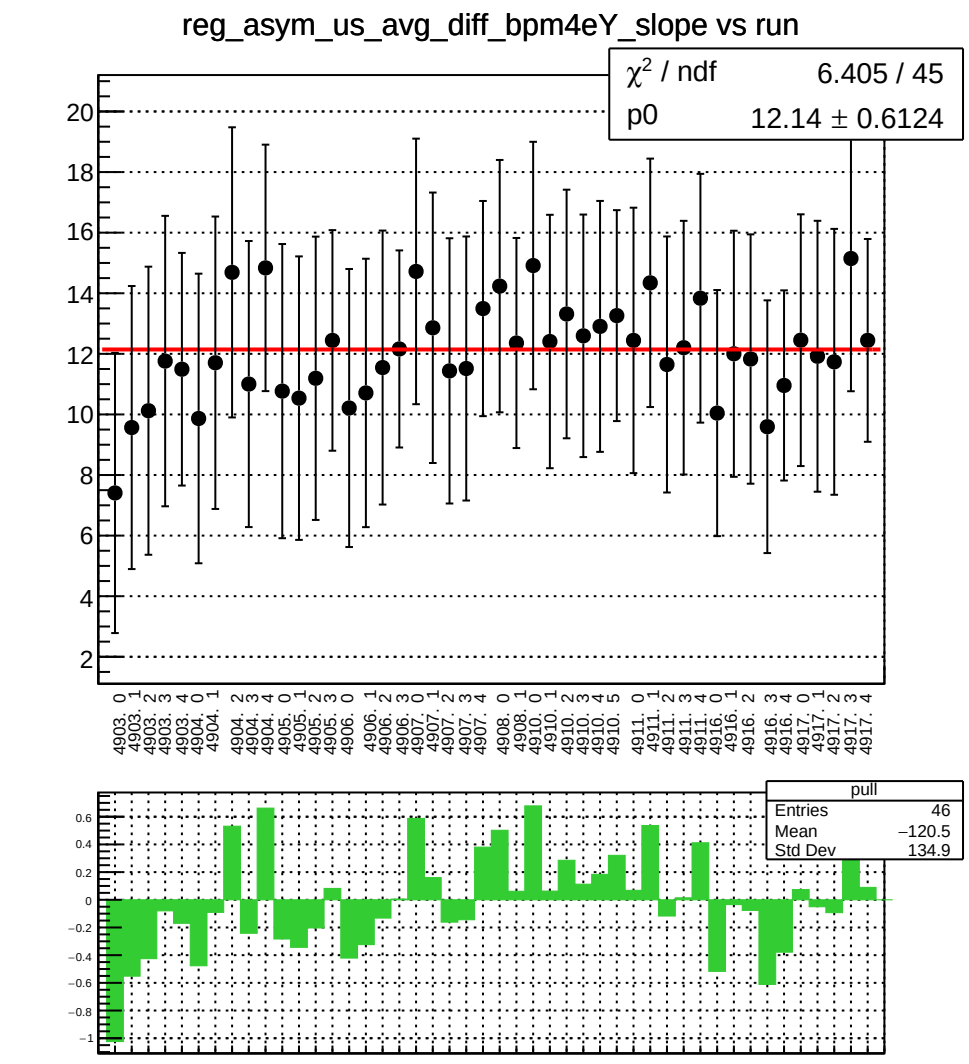

pull1D
Entries 46
Mean −0.02406
Std Dev 0.5634

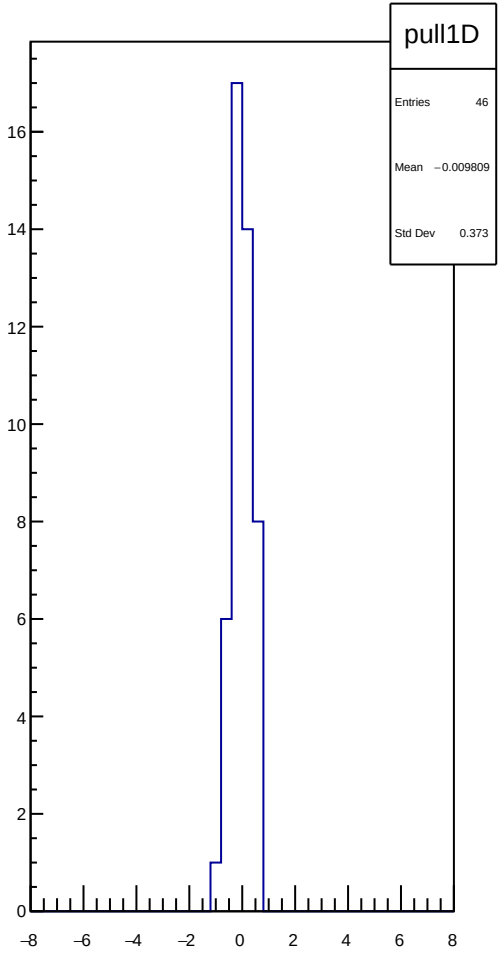

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.77 / 45
p0 −9.118 ± 0.5304
pull
Entries 46
Mean −147.1
Std Dev 194.4

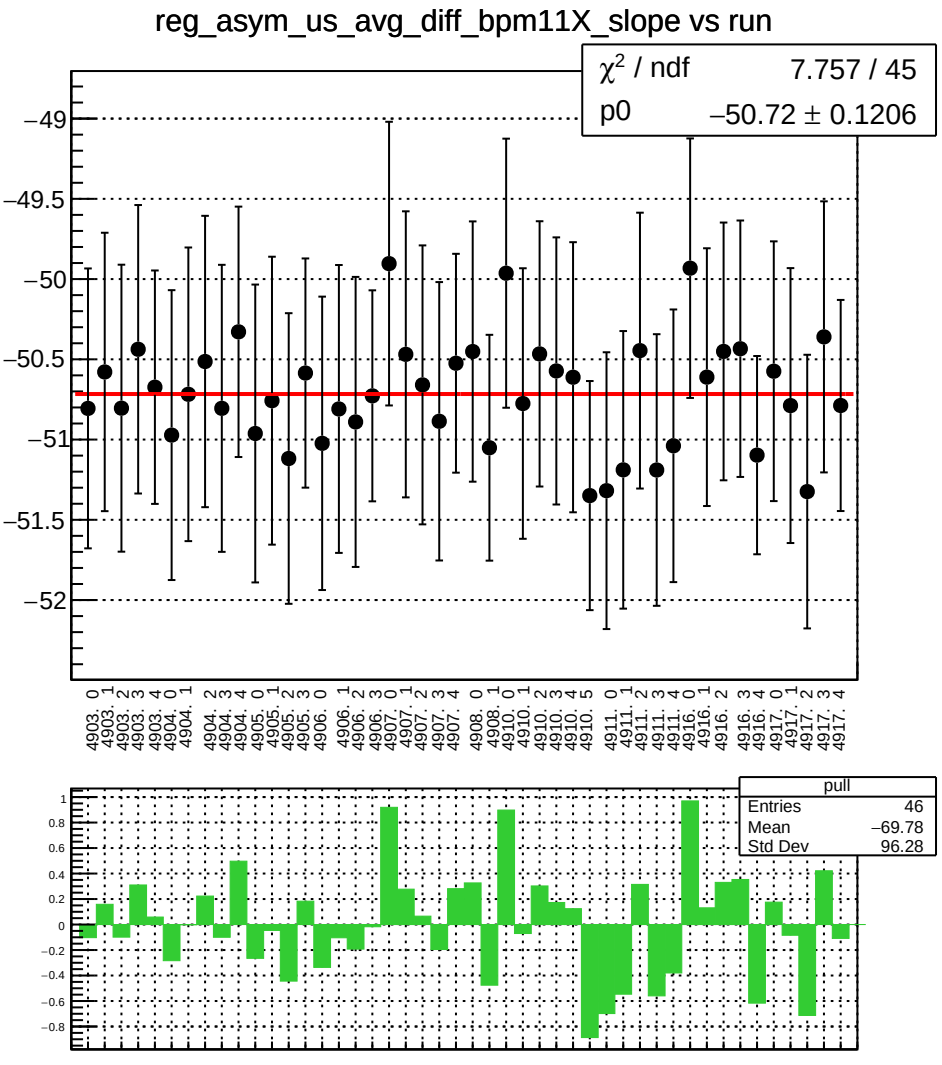

pull1D
Entries 46
Mean −0.001585
Std Dev 0.3836

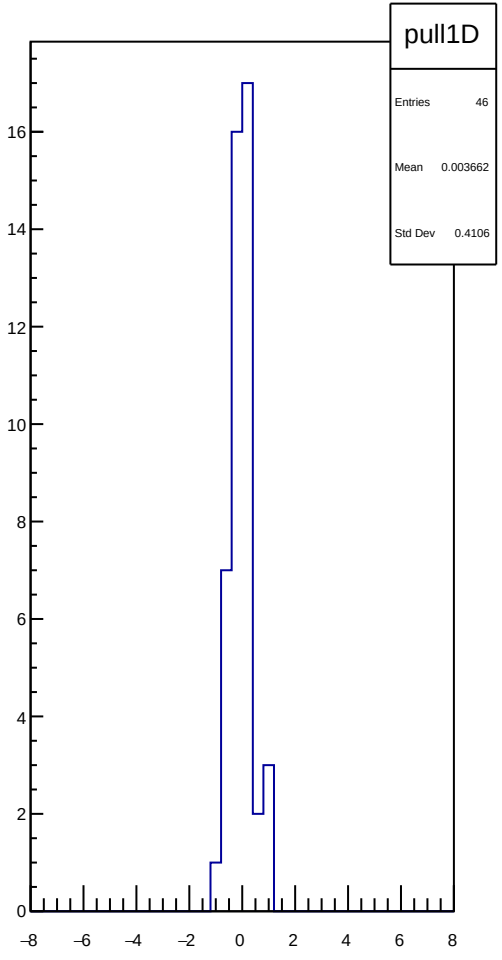

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.6 / 45
p0 −24.3 ± 0.07763
pull
Entries 46
Mean −208.5
Std Dev 229.8

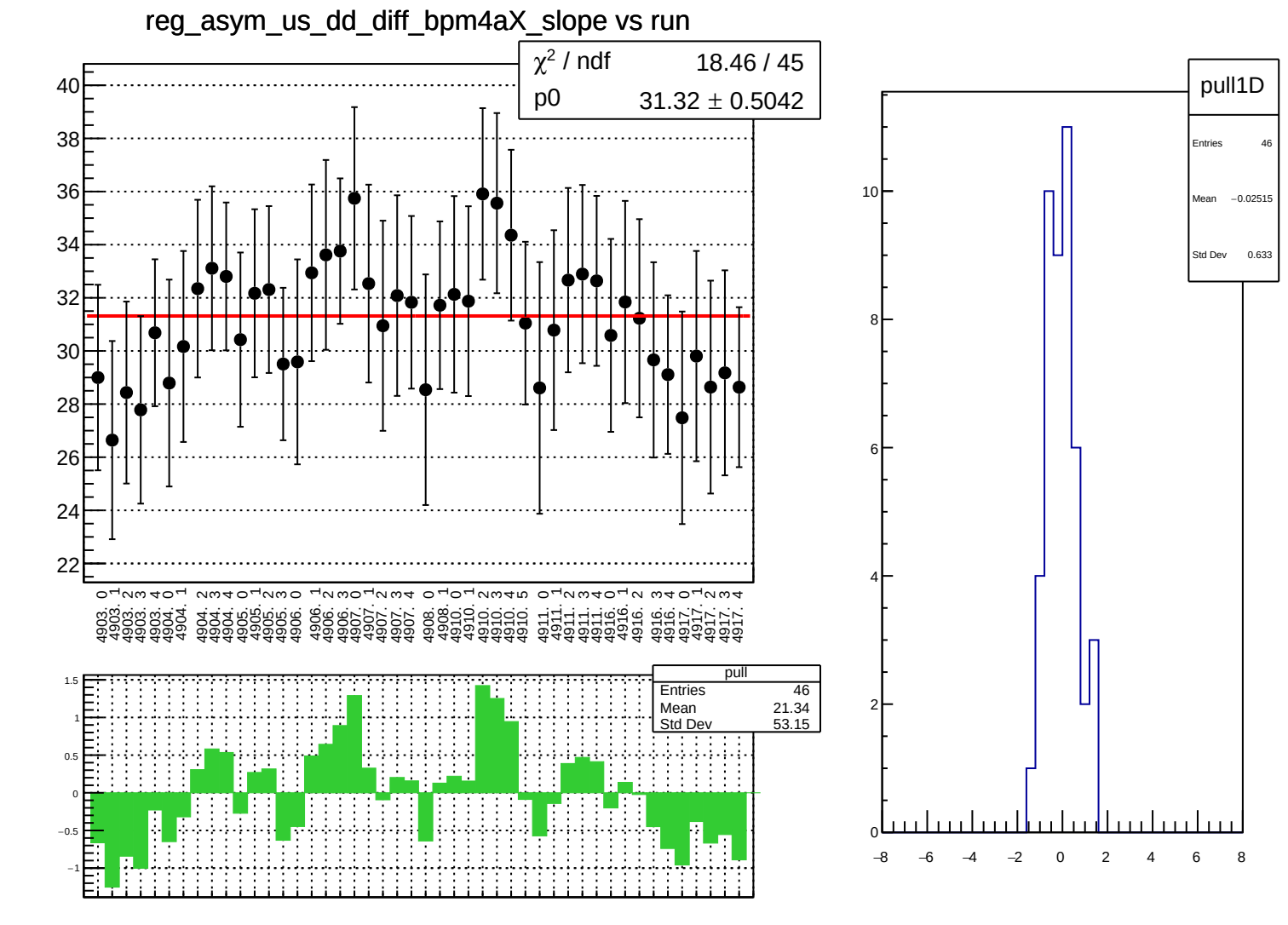

pull1D
Entries 46
Mean −0.02691
Std Dev 0.8793

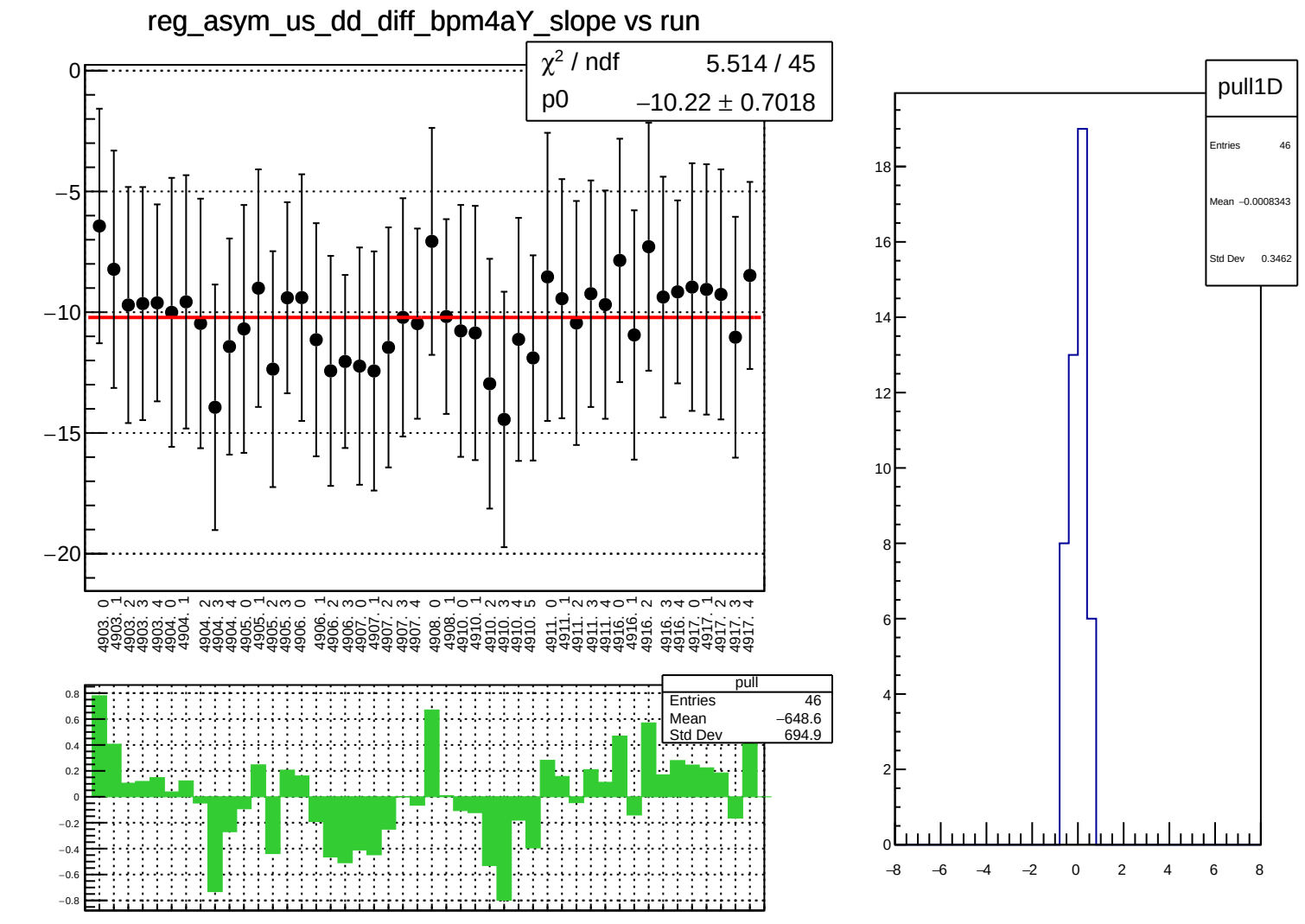

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.405 / 45
p0 12.14 ± 0.6124
pull
Entries 46
Mean −120.5
Std Dev 134.9

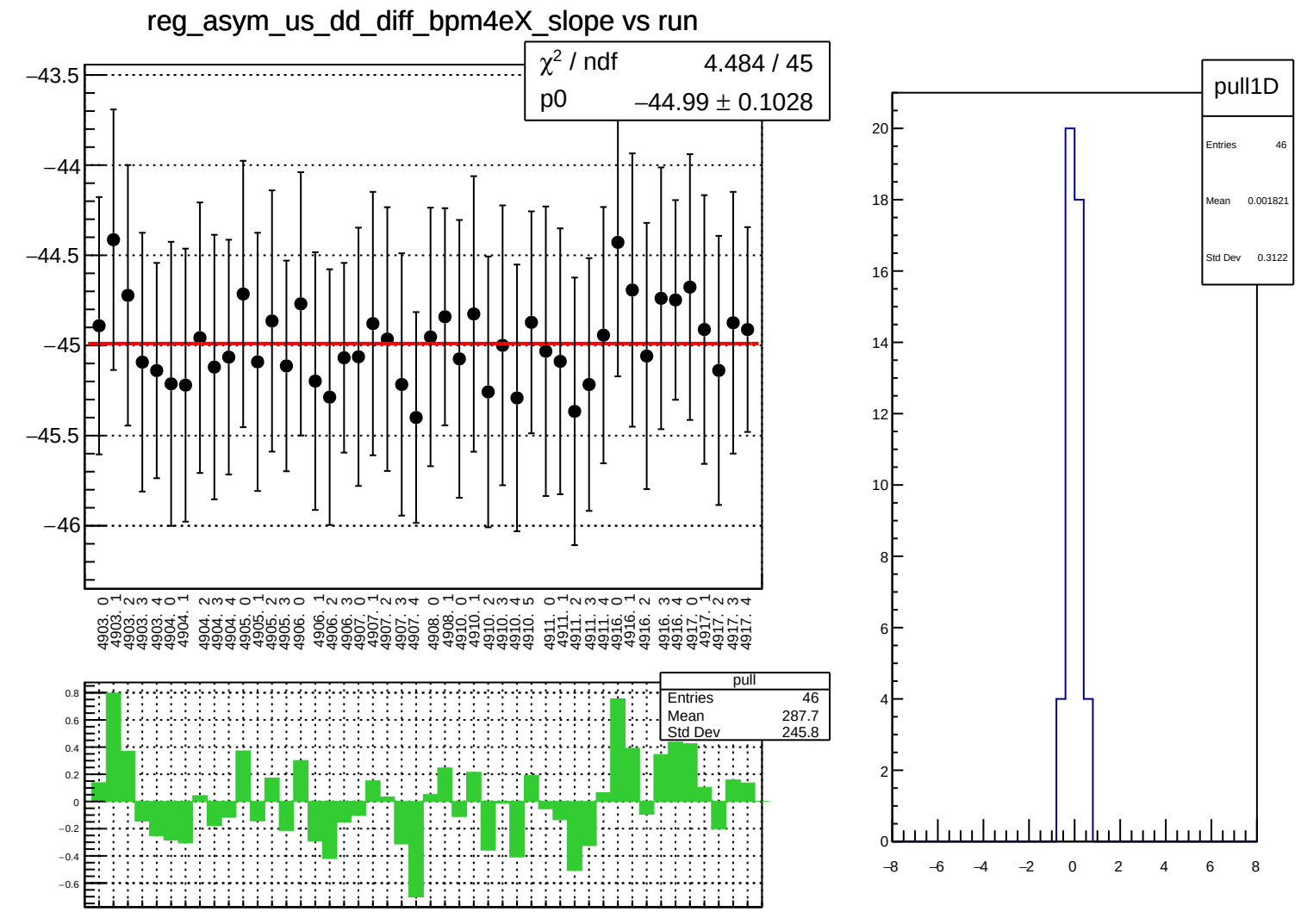

pull1D
Entries 46
Mean −0.009809
Std Dev 0.373

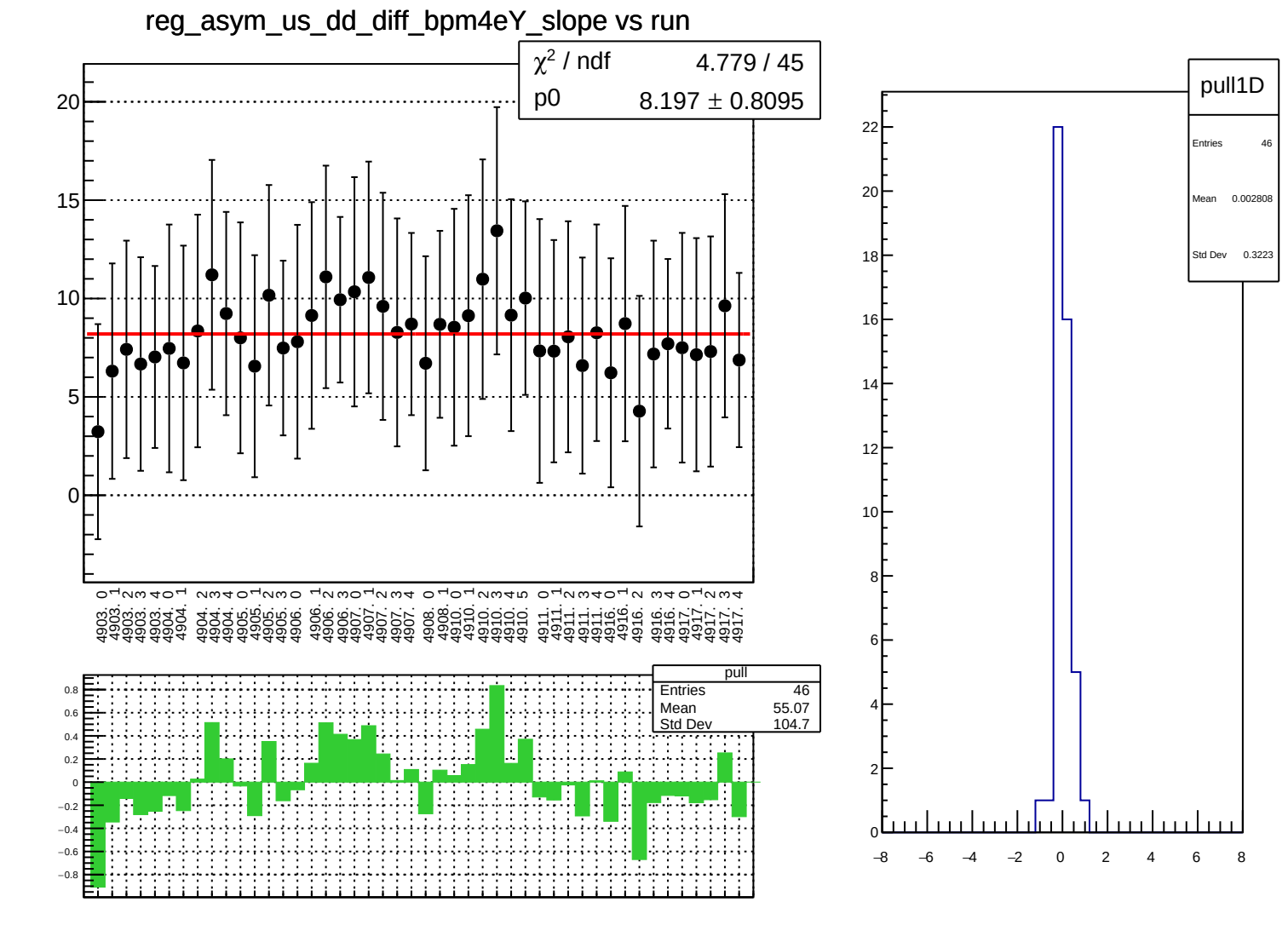

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 7.757 / 45
p0 −50.72 ± 0.1206
pull
Entries 46
Mean −69.78
Std Dev 96.28

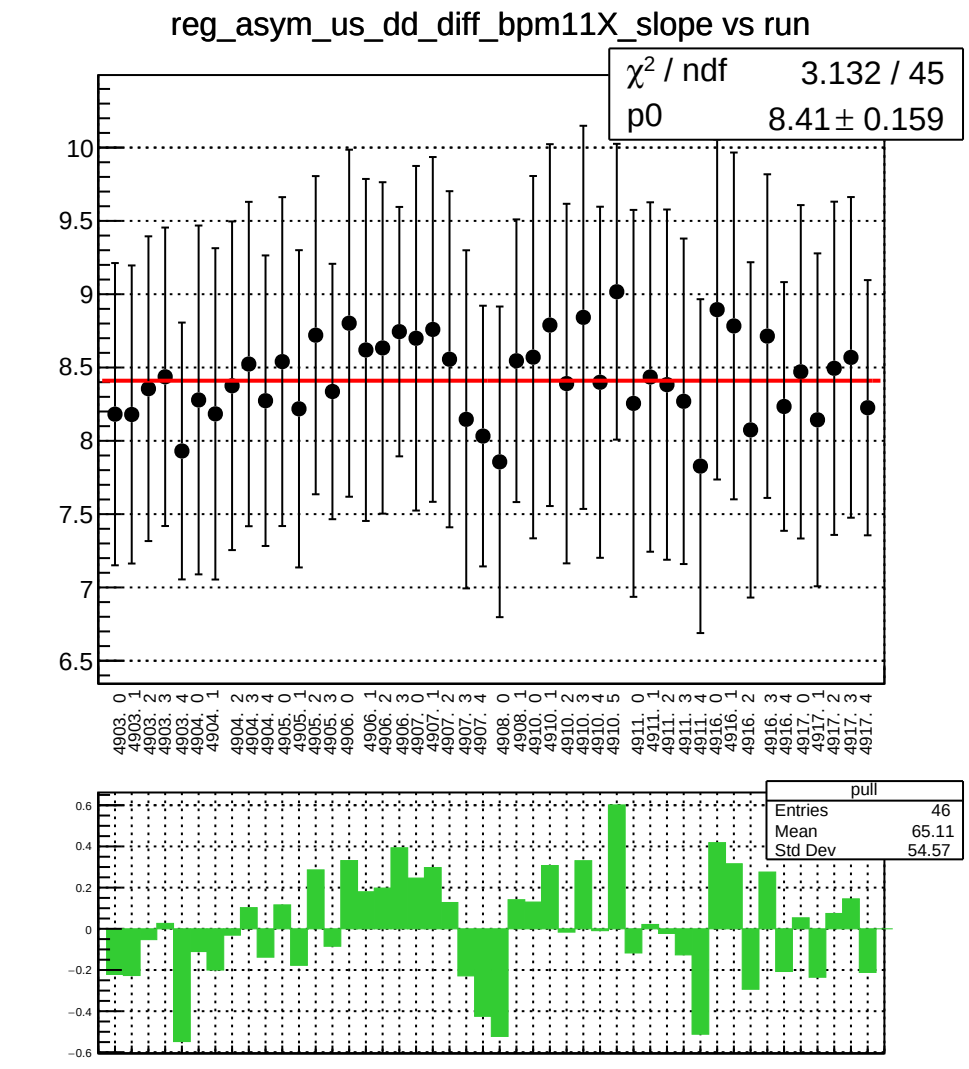

pull1D
Entries 46
Mean 0.003662
Std Dev 0.4106

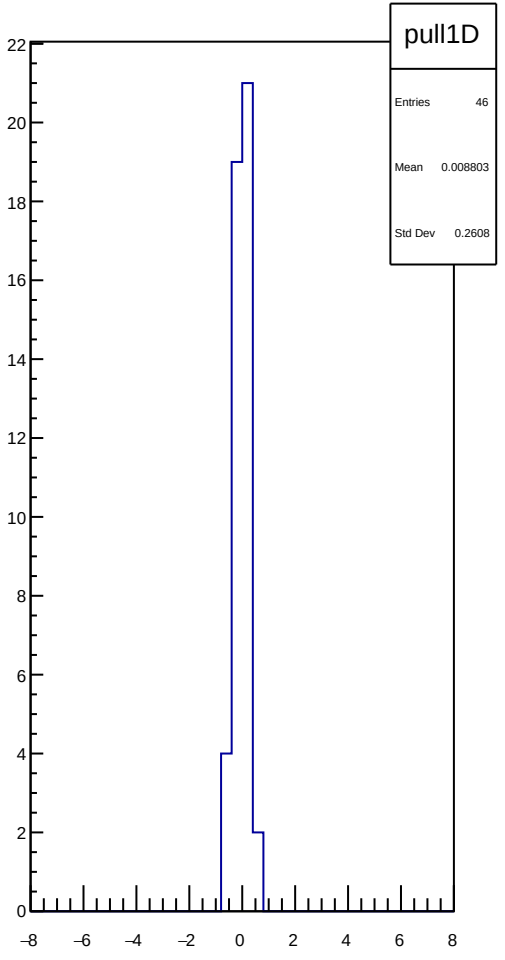

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.46 / 45
p0 31.32 ± 0.5042
pull
Entries 46
Mean 21.34
Std Dev 53.15
pull1D
Entries 46
Mean −0.02515
Std Dev 0.633

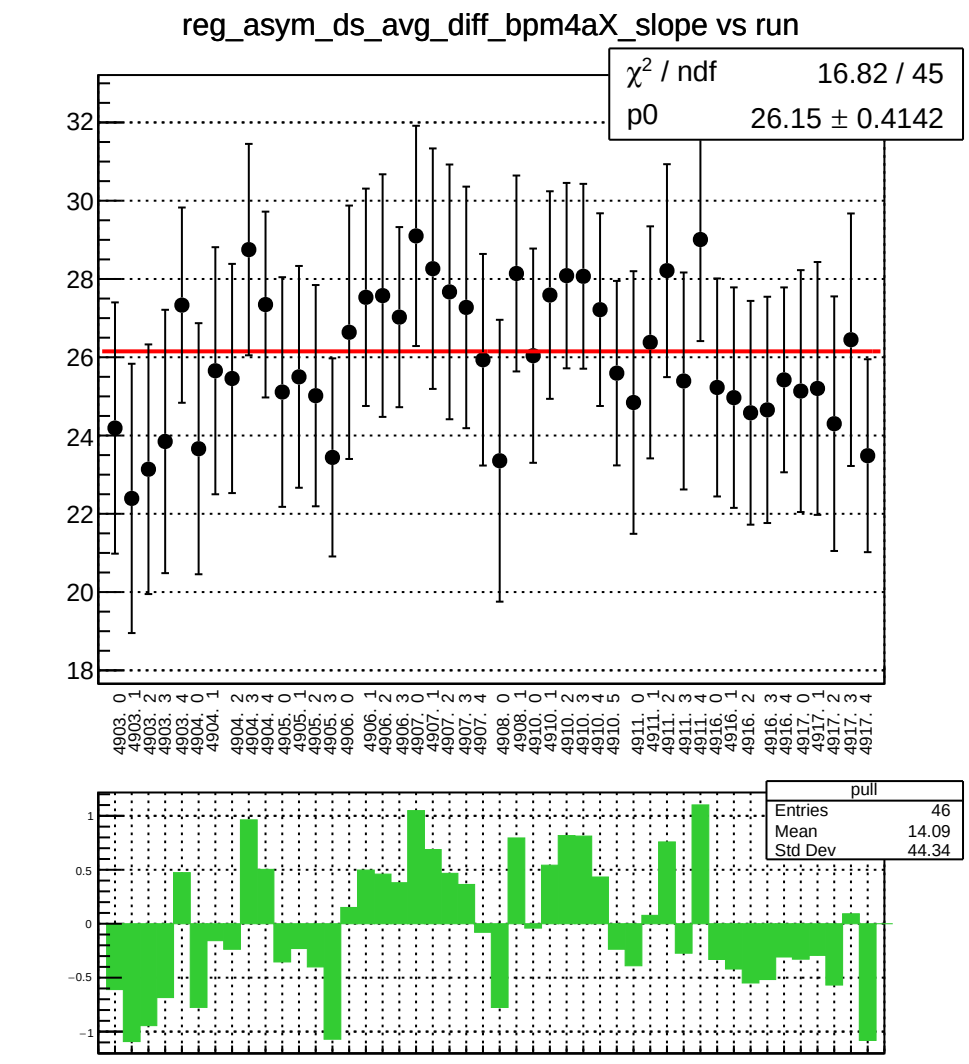

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.514 / 45
p0 −10.22 ± 0.7018
0
−5
−10
−15
−20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −648.6
Std Dev 694.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.0008343
Std Dev 0.3462
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

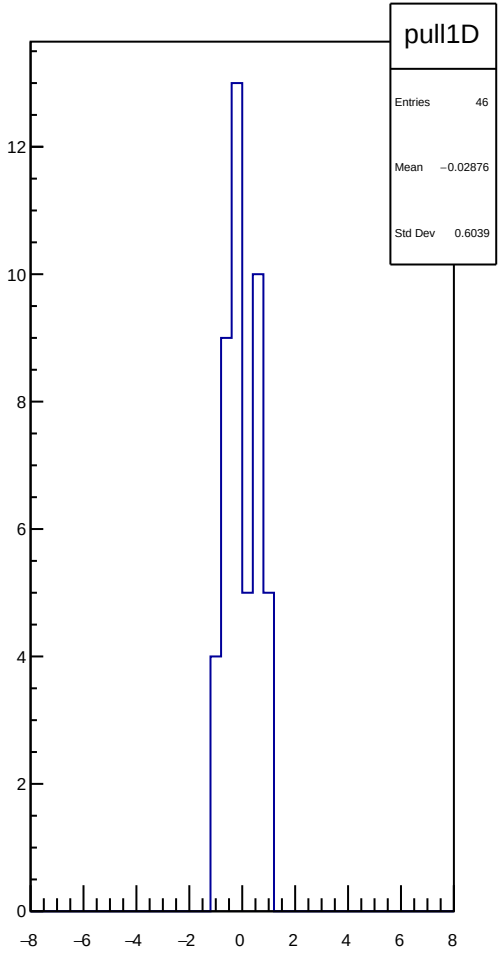

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.484 / 45
p0 −44.99 ± 0.1028
−43.5
−44
−44.5
−45
−45.5
−46
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 287.7
Std Dev 245.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.001821
Std Dev 0.3122
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

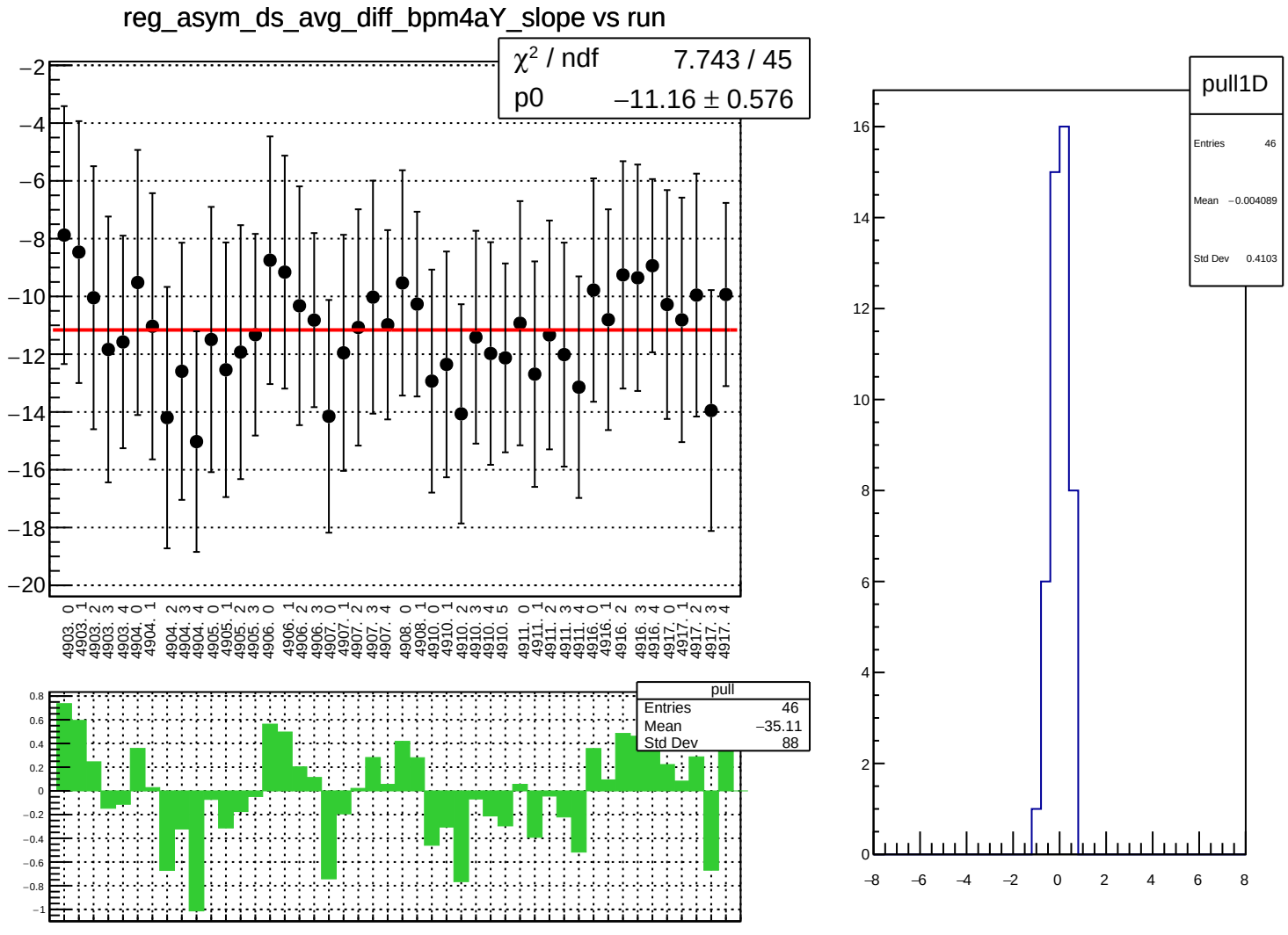

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.779 / 45
p0 8.197 ± 0.8095
pull
Entries 46
Mean 55.07
Std Dev 104.7
pull1D
Entries 46
Mean 0.002808
Std Dev 0.3223

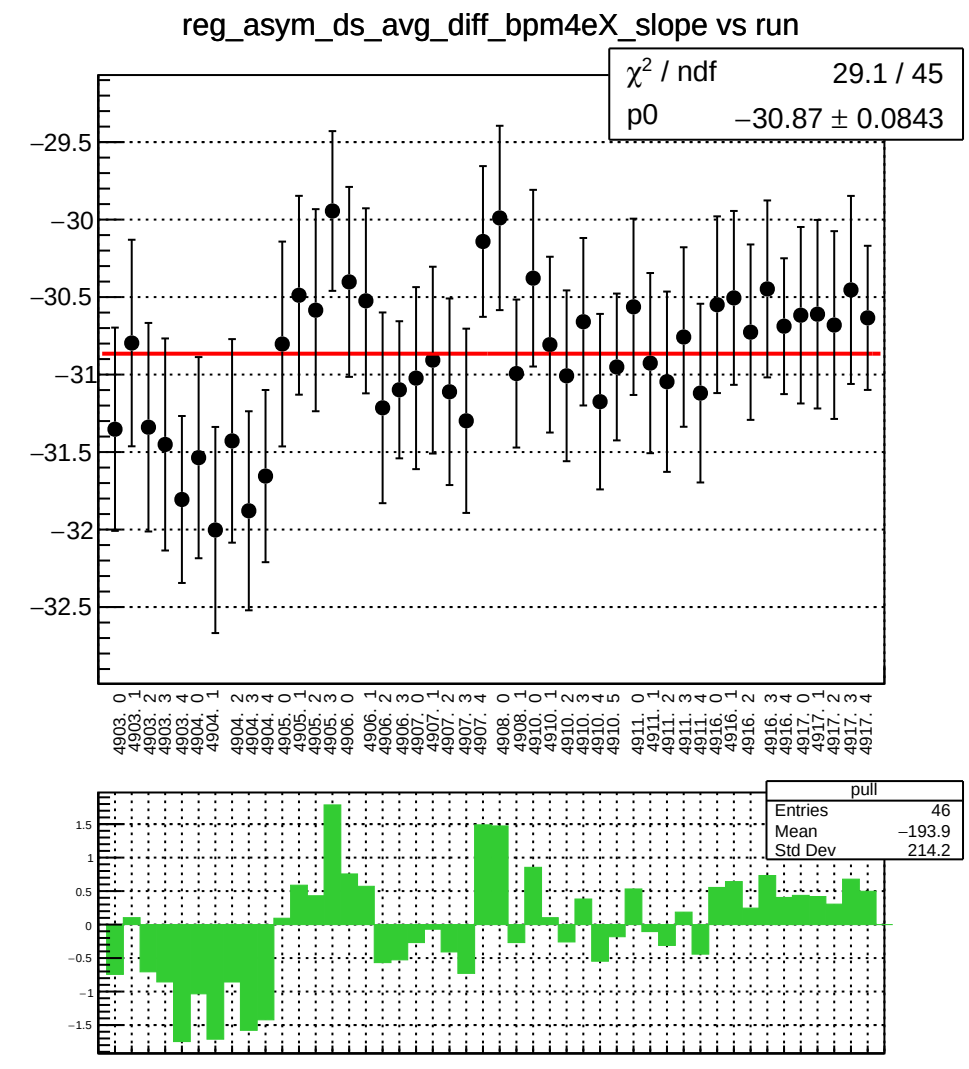

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 3.132 / 45
p0 8.41 ± 0.159
pull
Entries 46
Mean 65.11
Std Dev 54.57

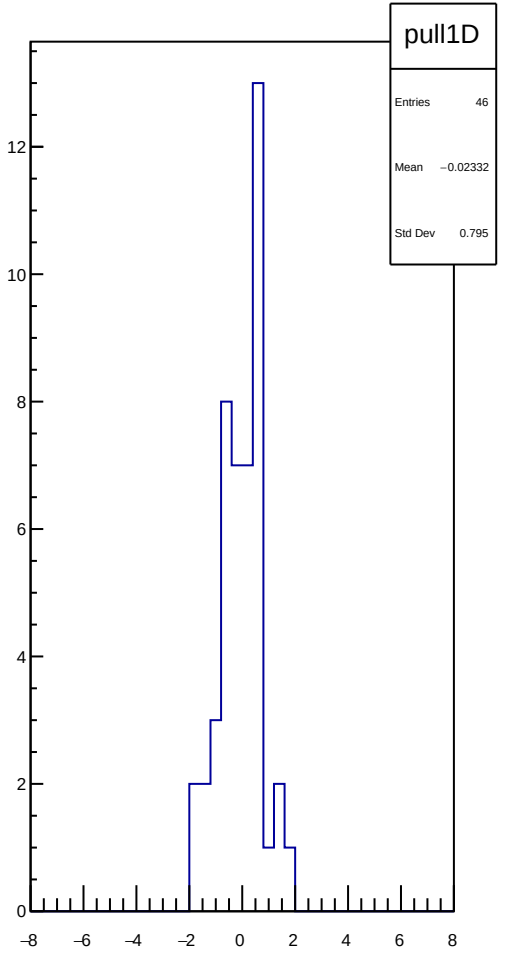

pull1D
Entries 46
Mean 0.008803
Std Dev 0.2608

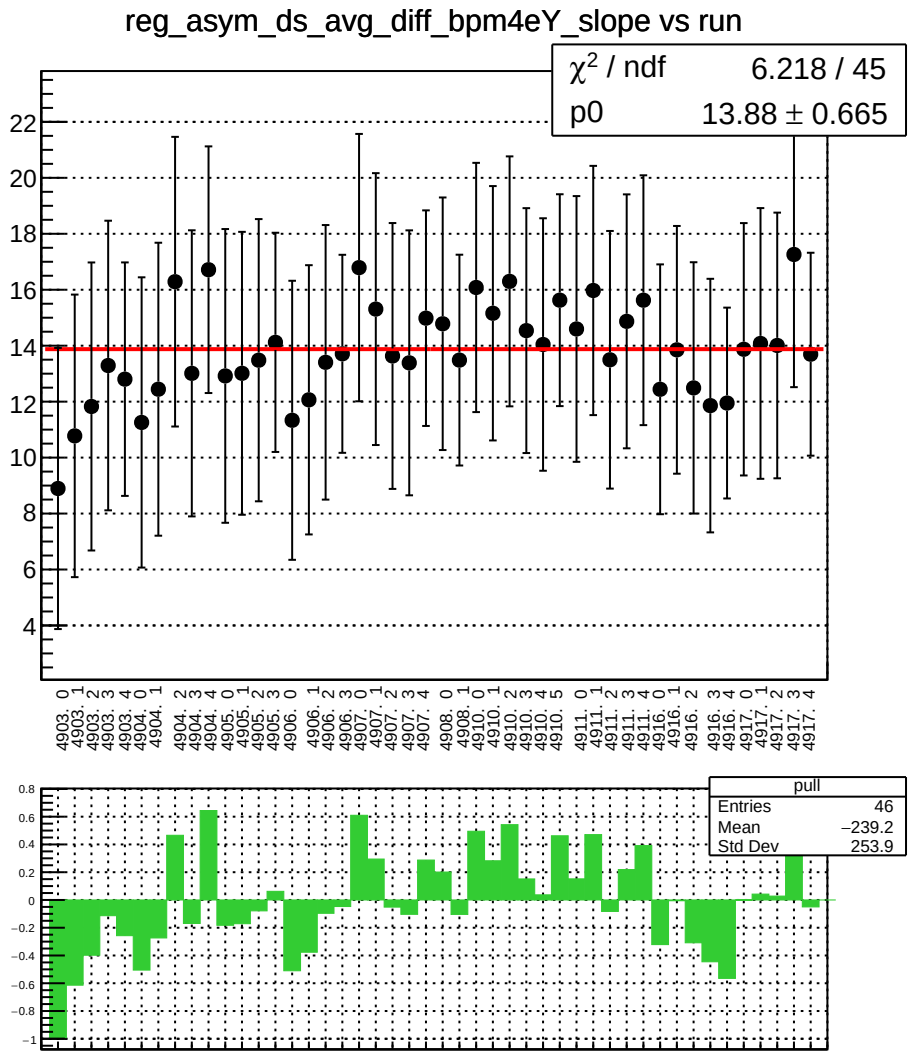

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.82 / 45
p0 26.15 ± 0.4142
pull
Entries 46
Mean 14.09
Std Dev 44.34

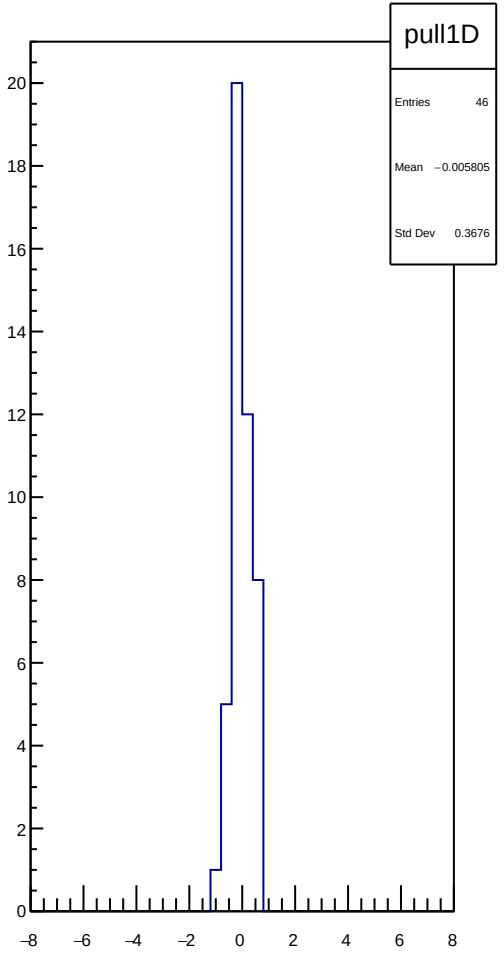

pull1D
Entries 46
Mean −0.02876
Std Dev 0.6039

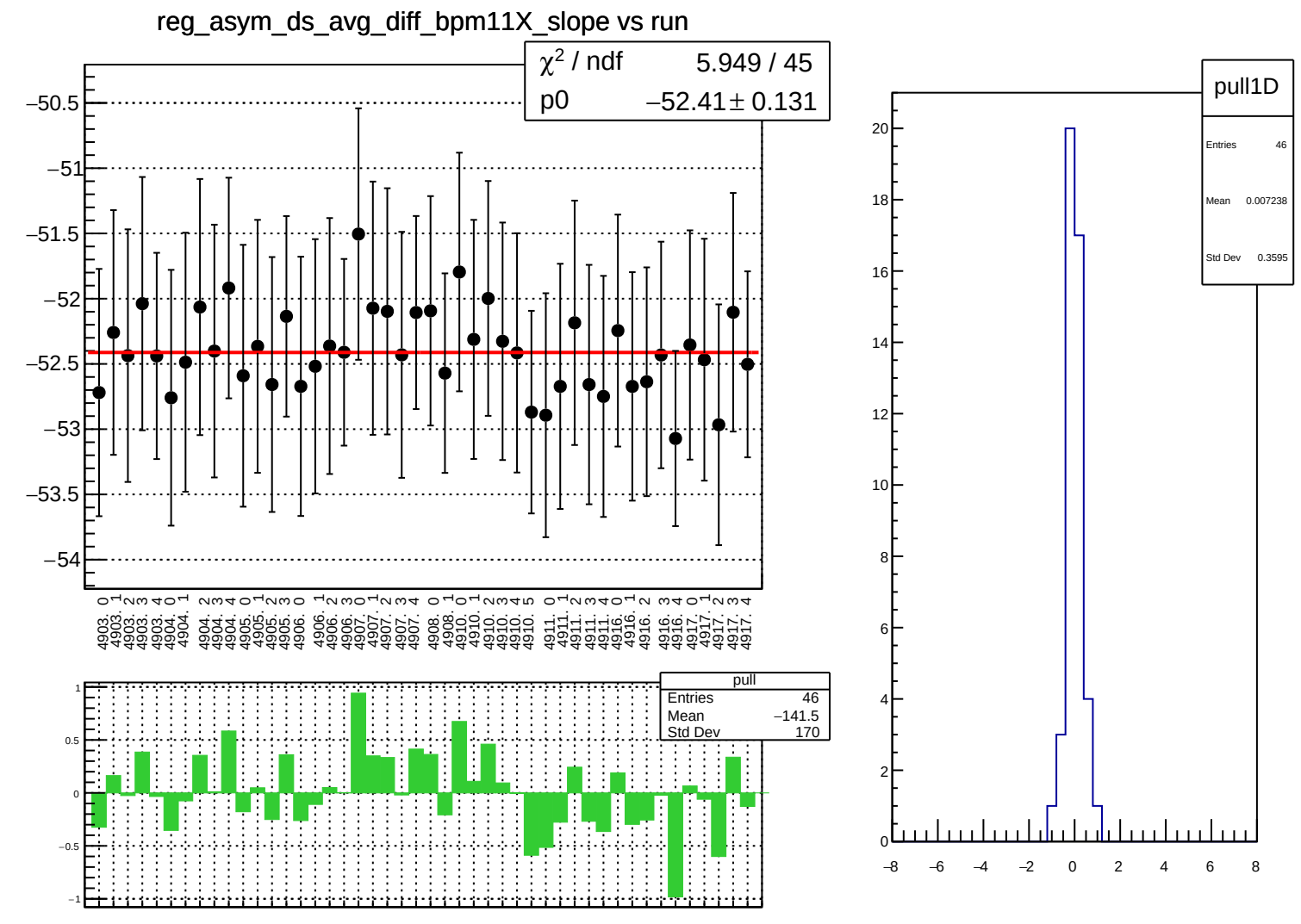

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.743 / 45
p0 −11.16 ± 0.576
pull
Entries 46
Mean −35.11
Std Dev 88
pull1D
Entries 46
Mean −0.004089
Std Dev 0.4103

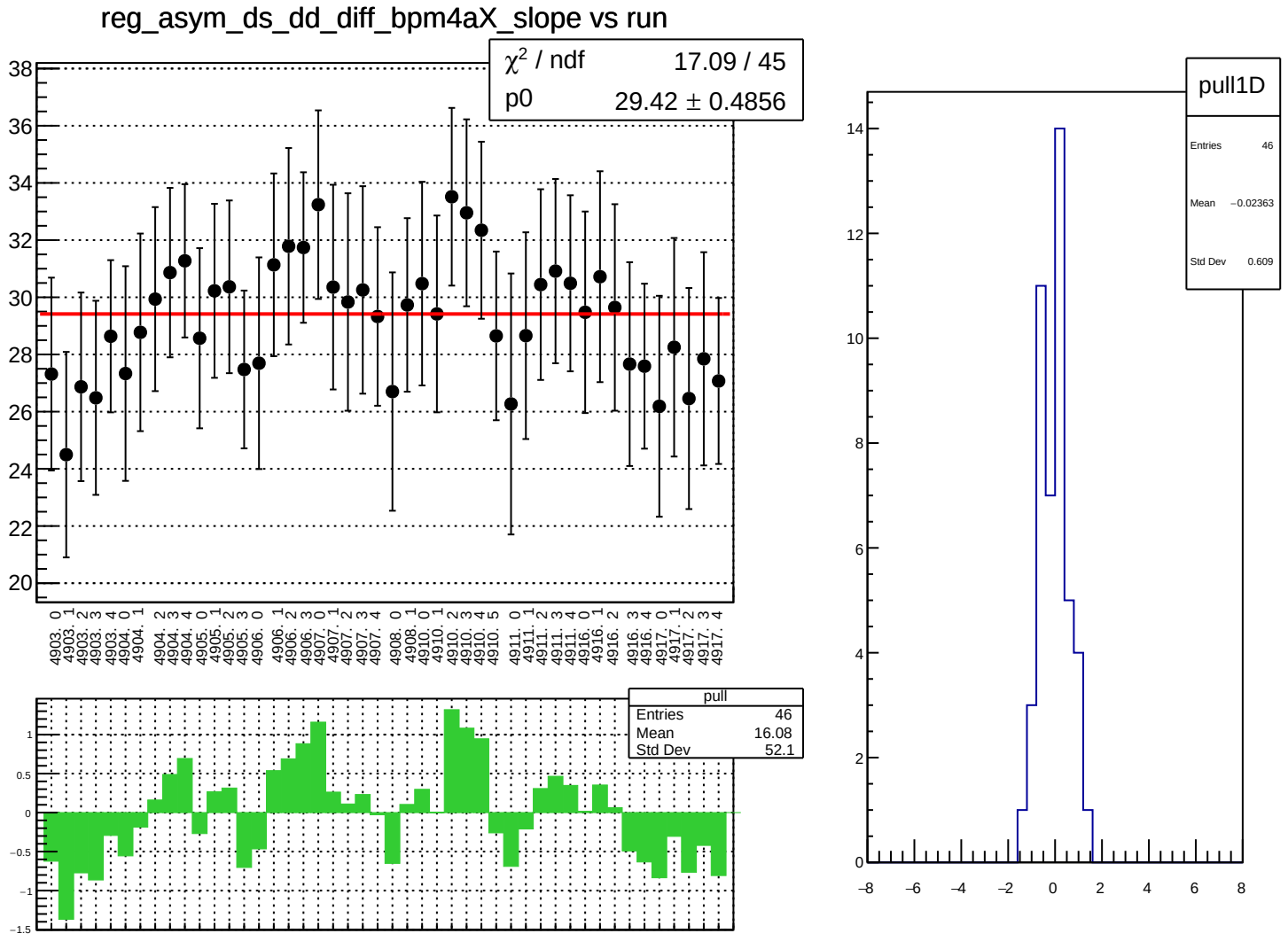

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.1 / 45
p0 −30.87 ± 0.0843
−29.5
−30
−30.5
−31
−31.5
−32
−32.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −193.9
Std Dev 214.2
1.5
1
0.5
0
−0.5
−1
−1.5

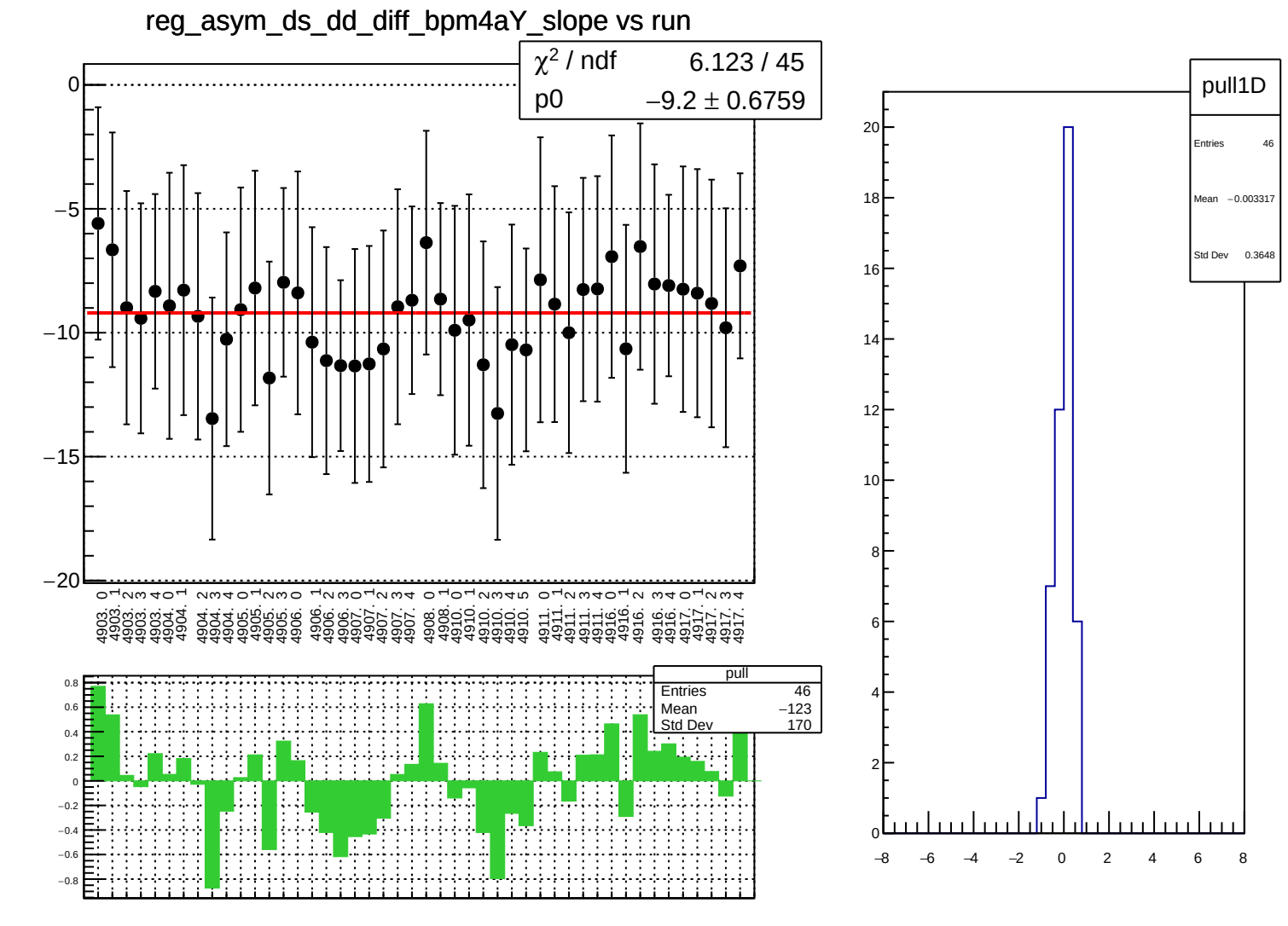

pull1D
Entries 46
Mean −0.02332
Std Dev 0.795
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

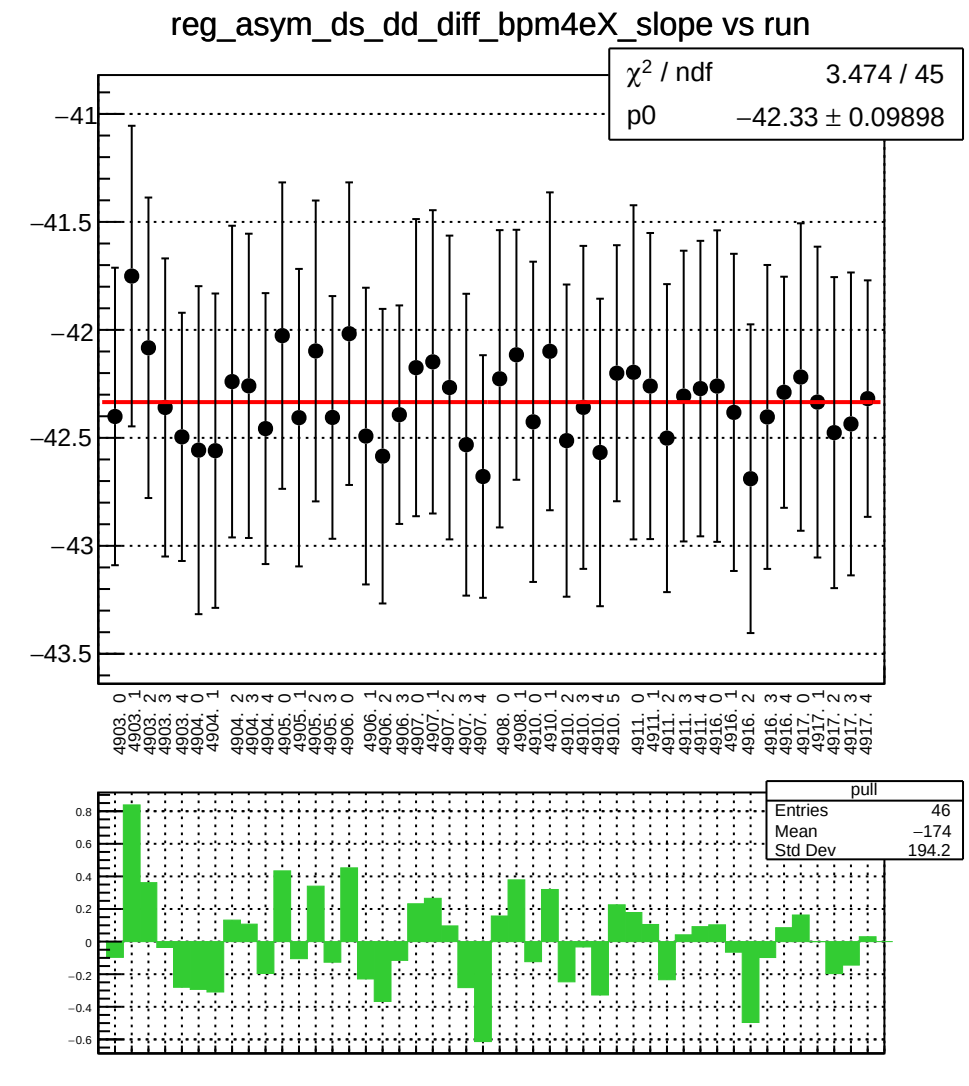

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.218 / 45
p0 13.88 ± 0.665
pull
Entries 46
Mean −239.2
Std Dev 253.9

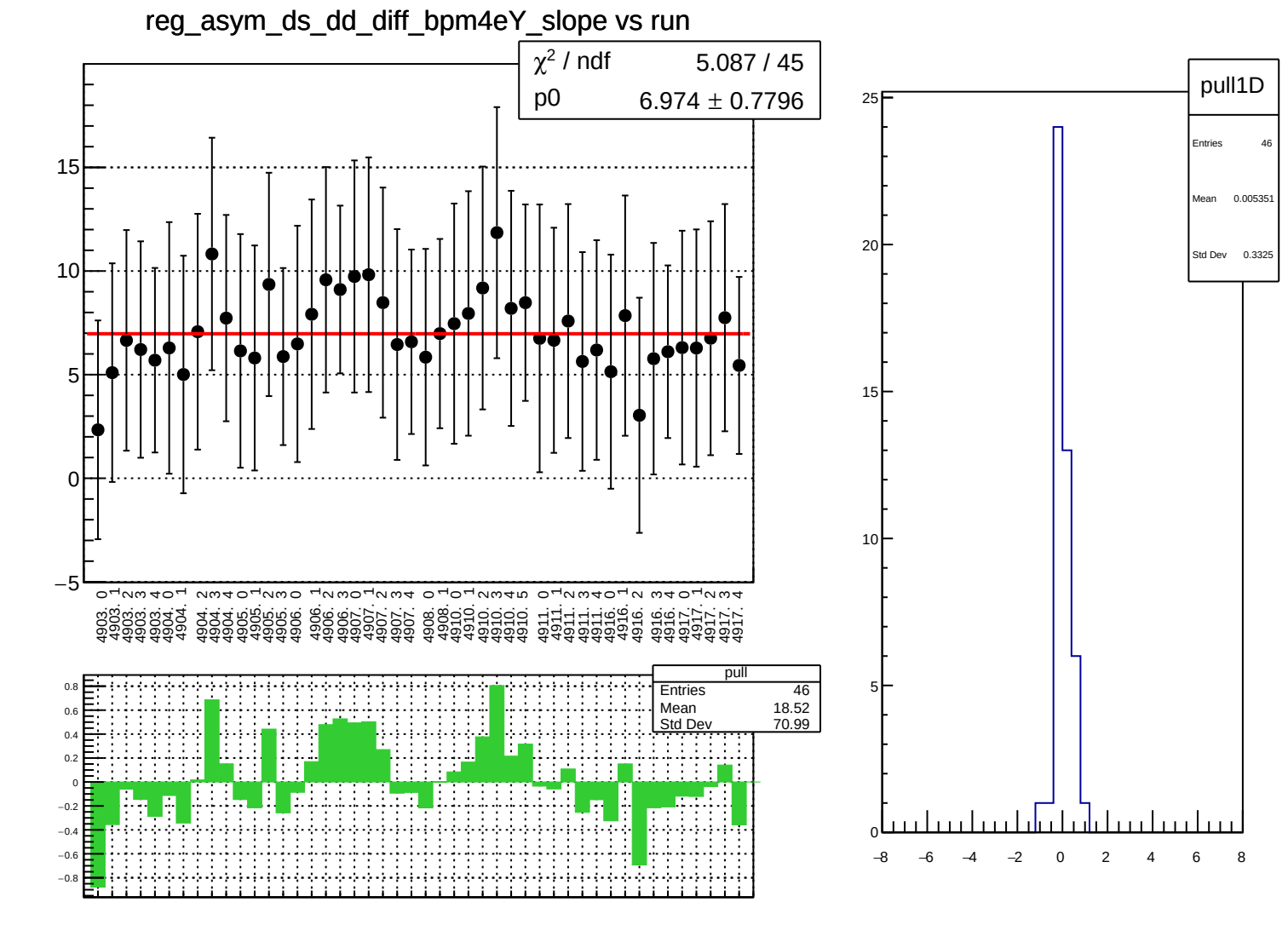

pull1D
Entries 46
Mean −0.005805
Std Dev 0.3676

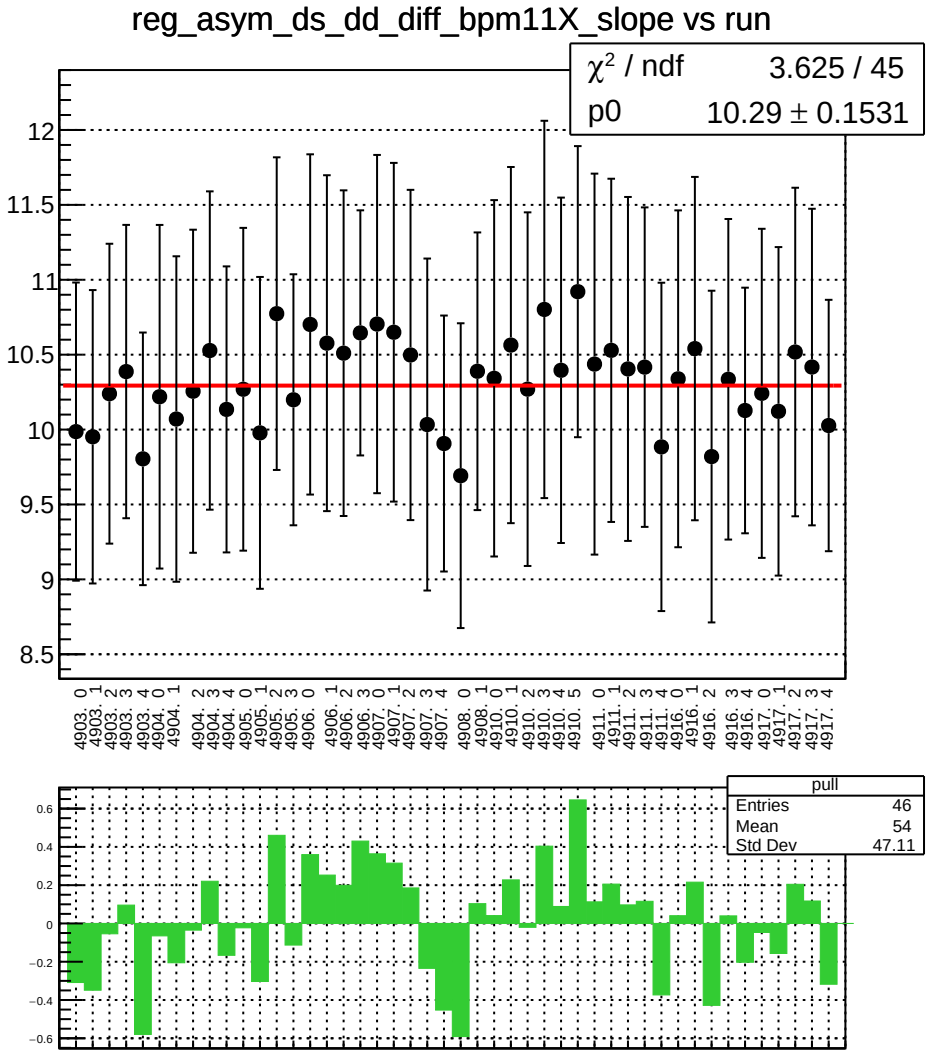

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 5.949 / 45
p0 −52.41 ± 0.131
pull
Entries 46
Mean −141.5
Std Dev 170
pull1D
Entries 46
Mean 0.007238
Std Dev 0.3595

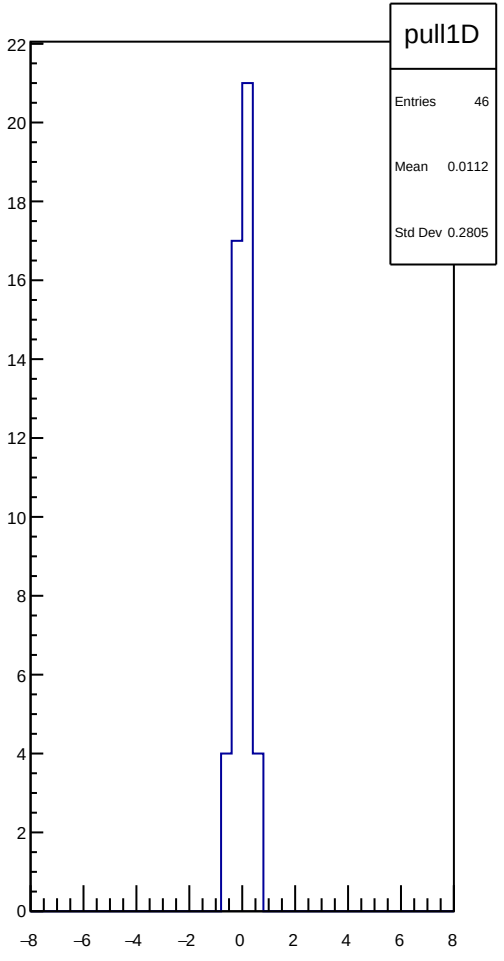

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.09 / 45
p0 29.42 ± 0.4856
pull
Entries 46
Mean 16.08
Std Dev 52.1
pull1D
Entries 46
Mean −0.02363
Std Dev 0.609

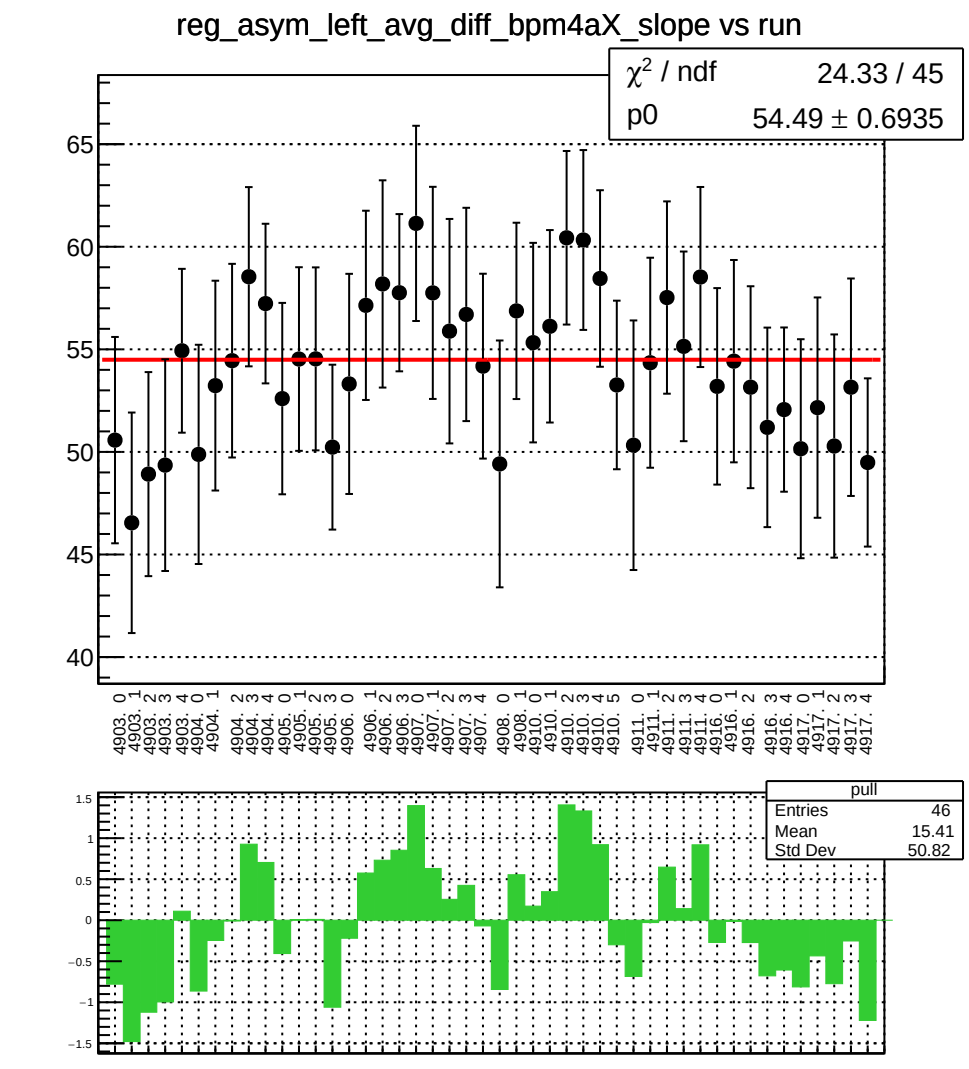

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.123 / 45
p0 −9.2 ± 0.6759
0
−5
−10
−15
−20
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −123
Std Dev 170
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.003317
Std Dev 0.3648
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

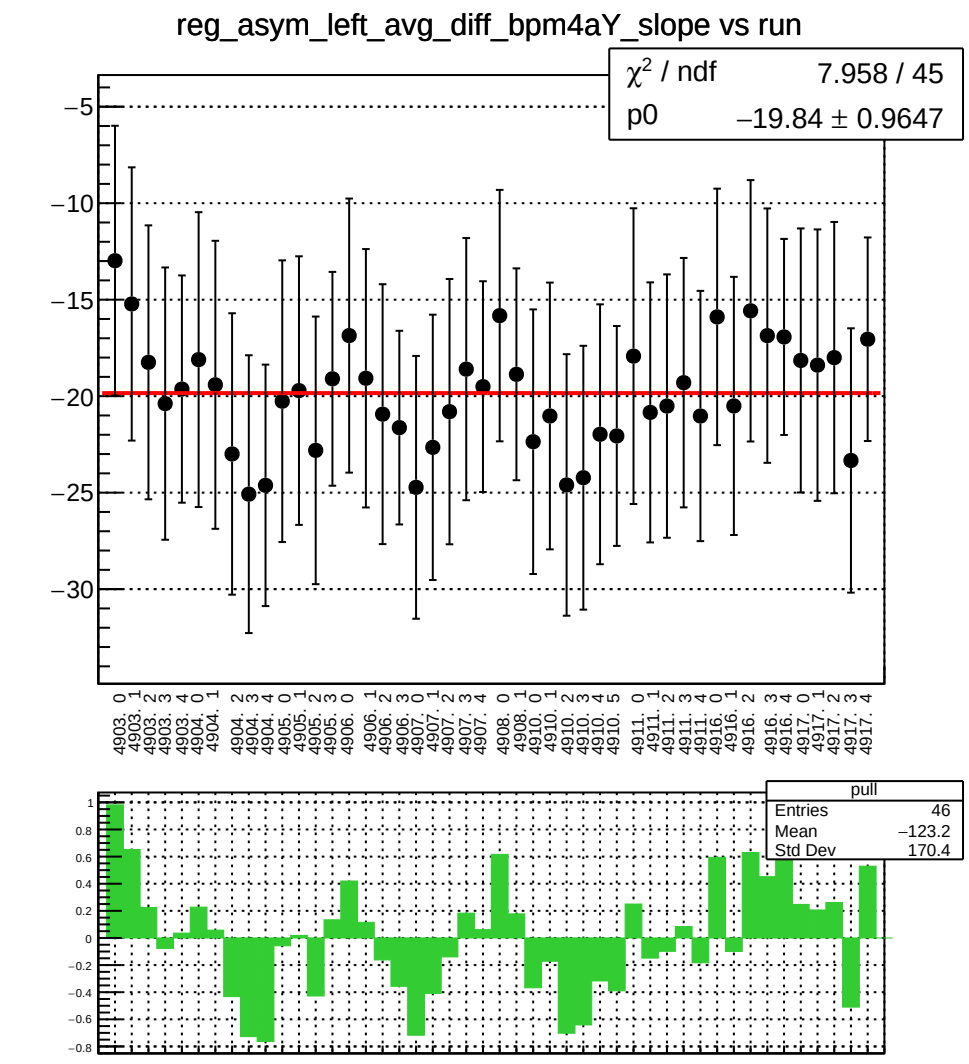

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.474 / 45
p0 −42.33 ± 0.09898
−41
−41.5
−42
−42.5
−43
−43.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −174
Std Dev 194.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.002724
Std Dev 0.2748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

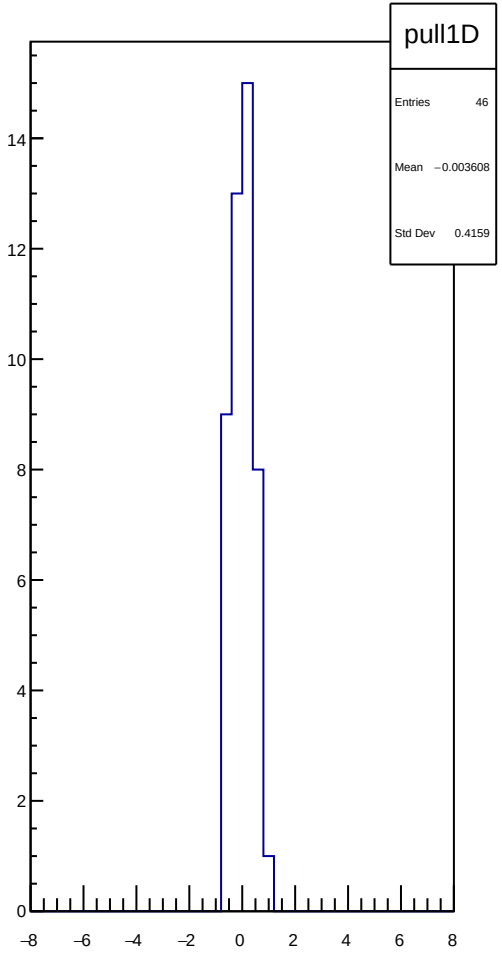

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.087 / 45
p0 6.974 ± 0.7796
pull
Entries 46
Mean 18.52
Std Dev 70.99
pull1D
Entries 46
Mean 0.005351
Std Dev 0.3325

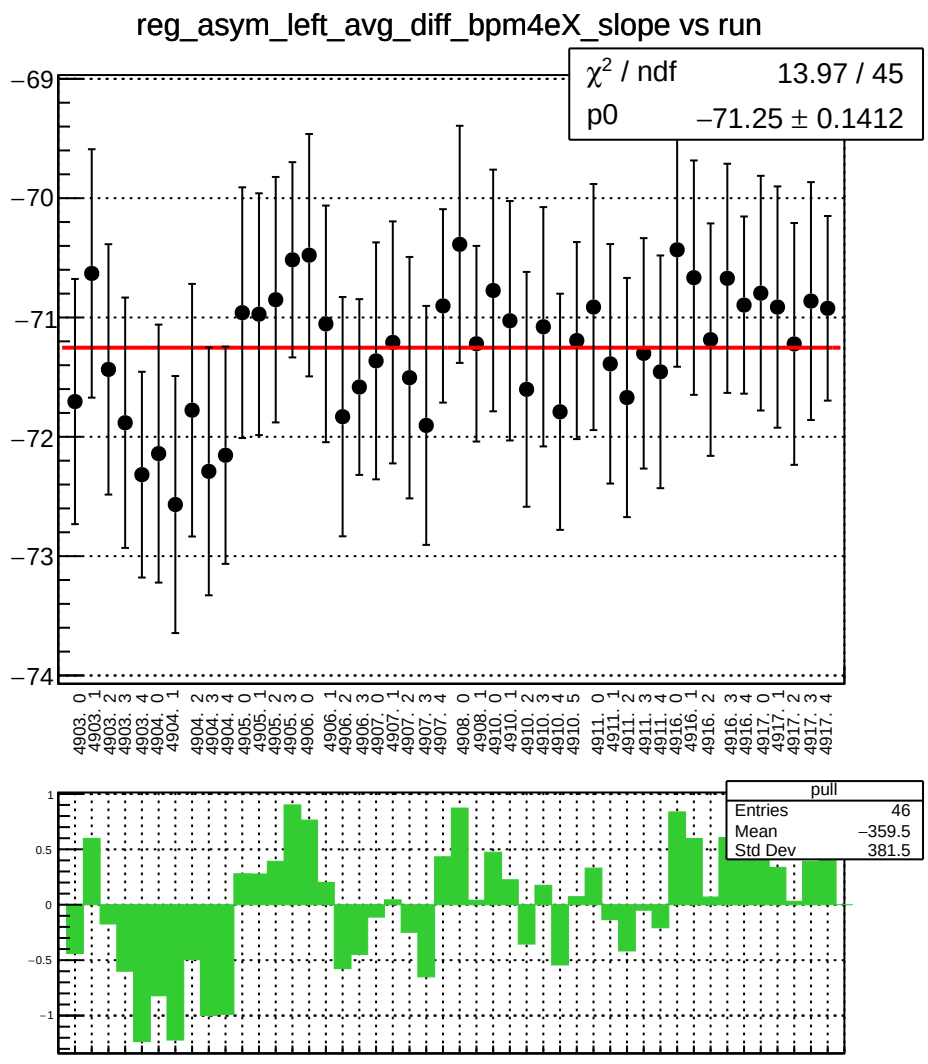

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 3.625 / 45
p0 10.29 ± 0.1531
pull
Entries 46
Mean 54
Std Dev 47.11

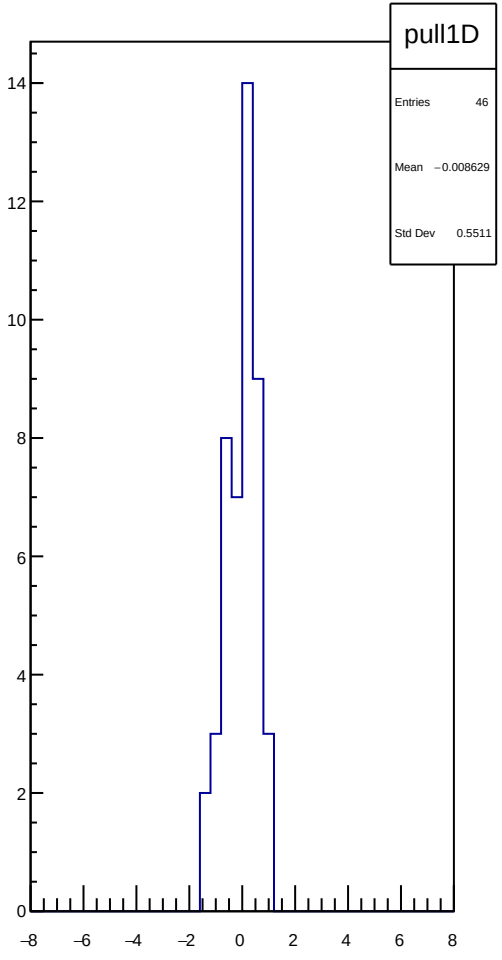

pull1D
Entries 46
Mean 0.0112
Std Dev 0.2805

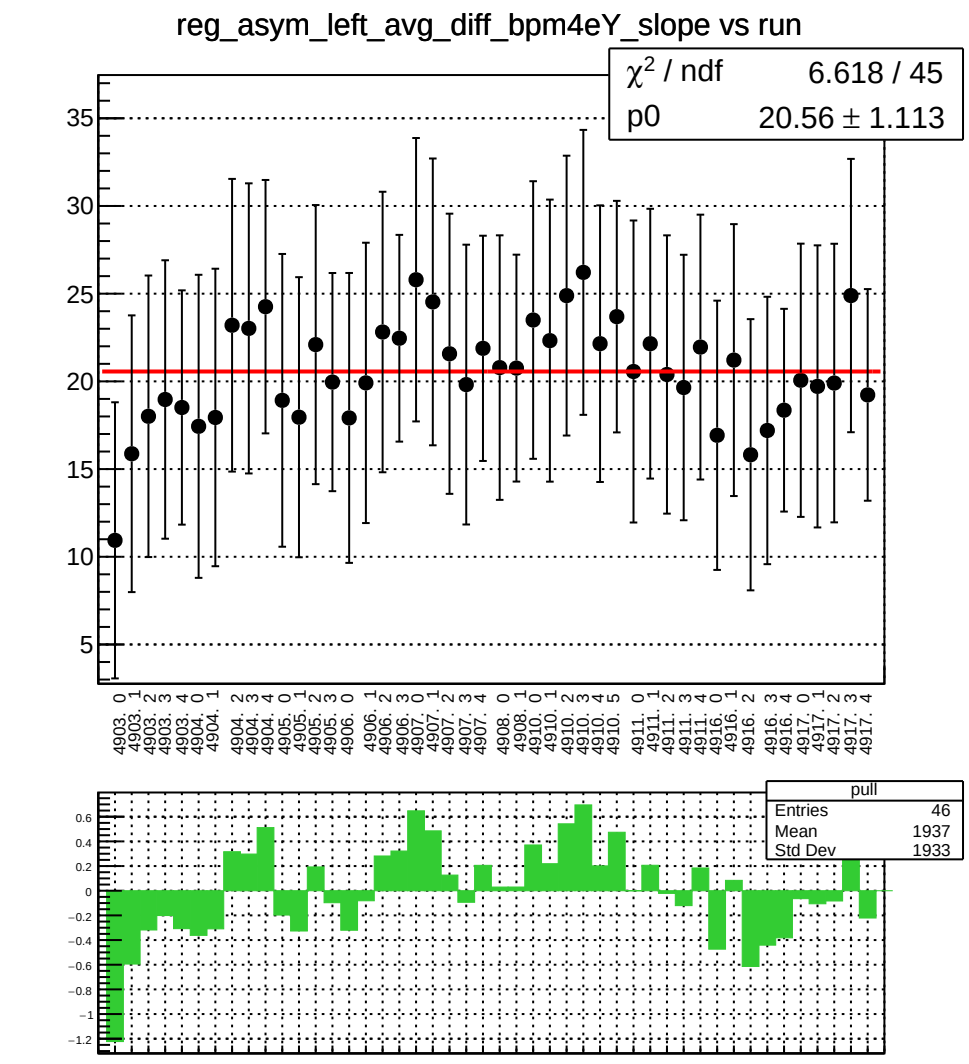

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.33 / 45
p0 54.49 ± 0.6935
65
60
55
50
45
40
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 15.41
Std Dev 50.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.03013
Std Dev 0.7266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

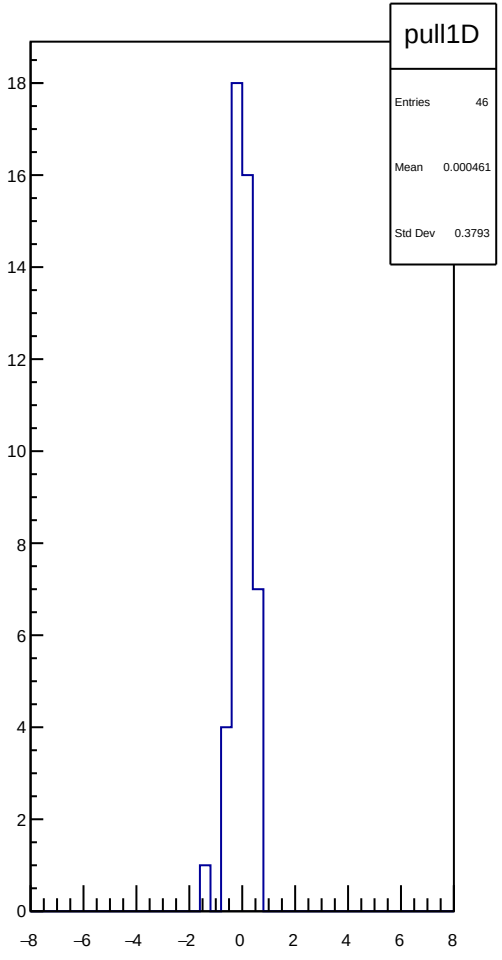

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.958 / 45
p0 −19.84 ± 0.9647
pull
Entries 46
Mean −123.2
Std Dev 170.4

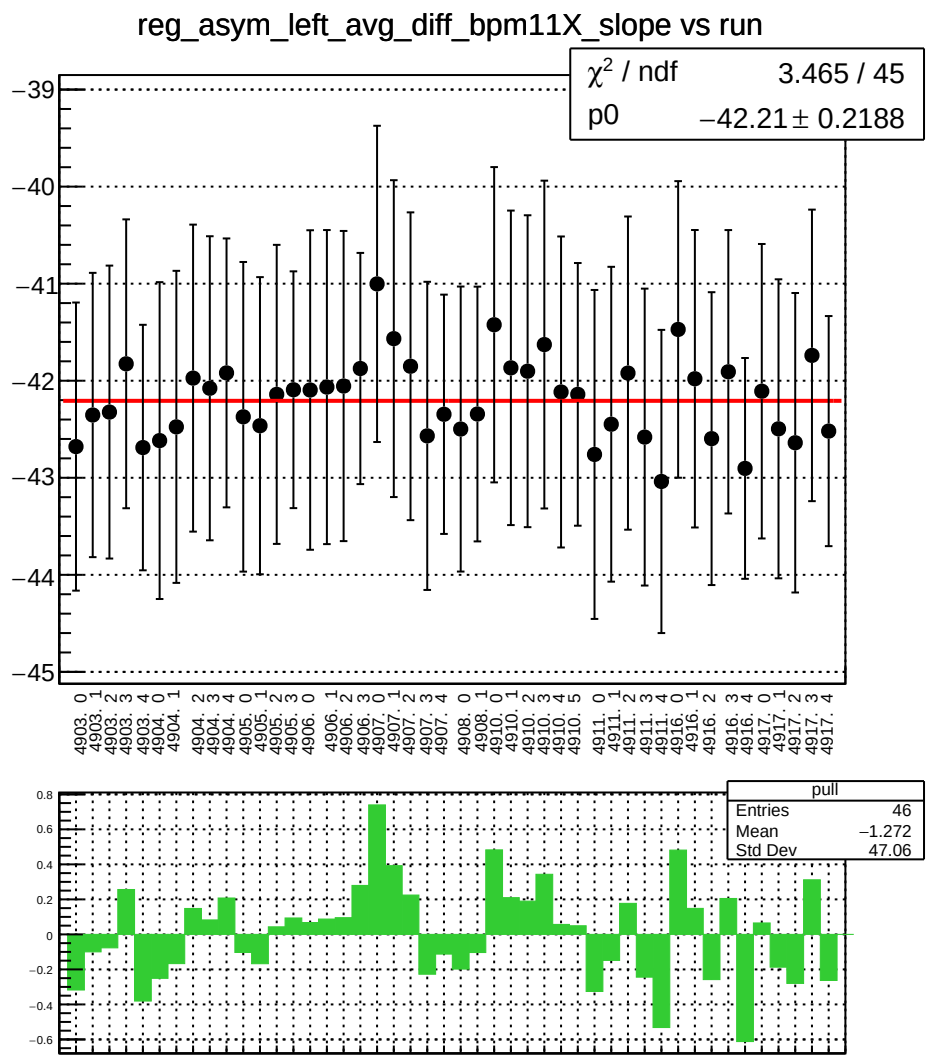

pull1D
Entries 46
Mean −0.003608
Std Dev 0.4159

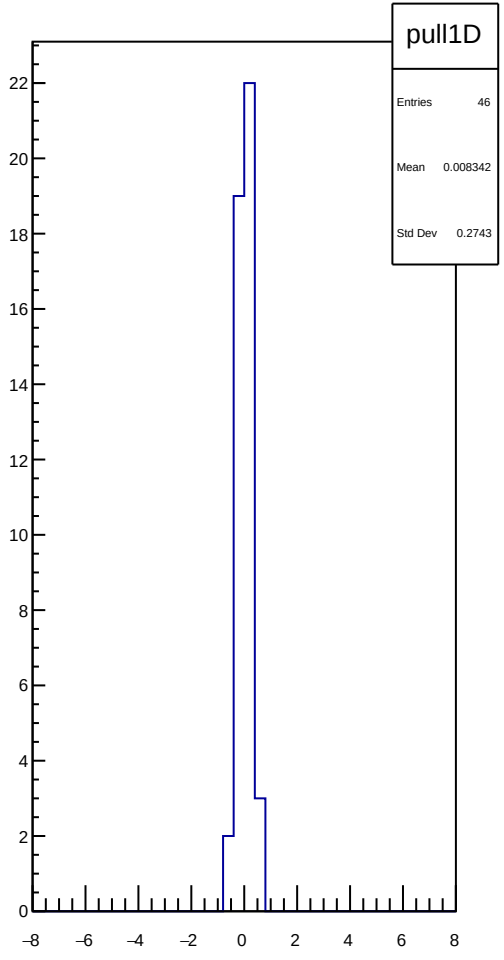

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.97 / 45
p0 −71.25 ± 0.1412
pull
Entries 46
Mean −359.5
Std Dev 381.5

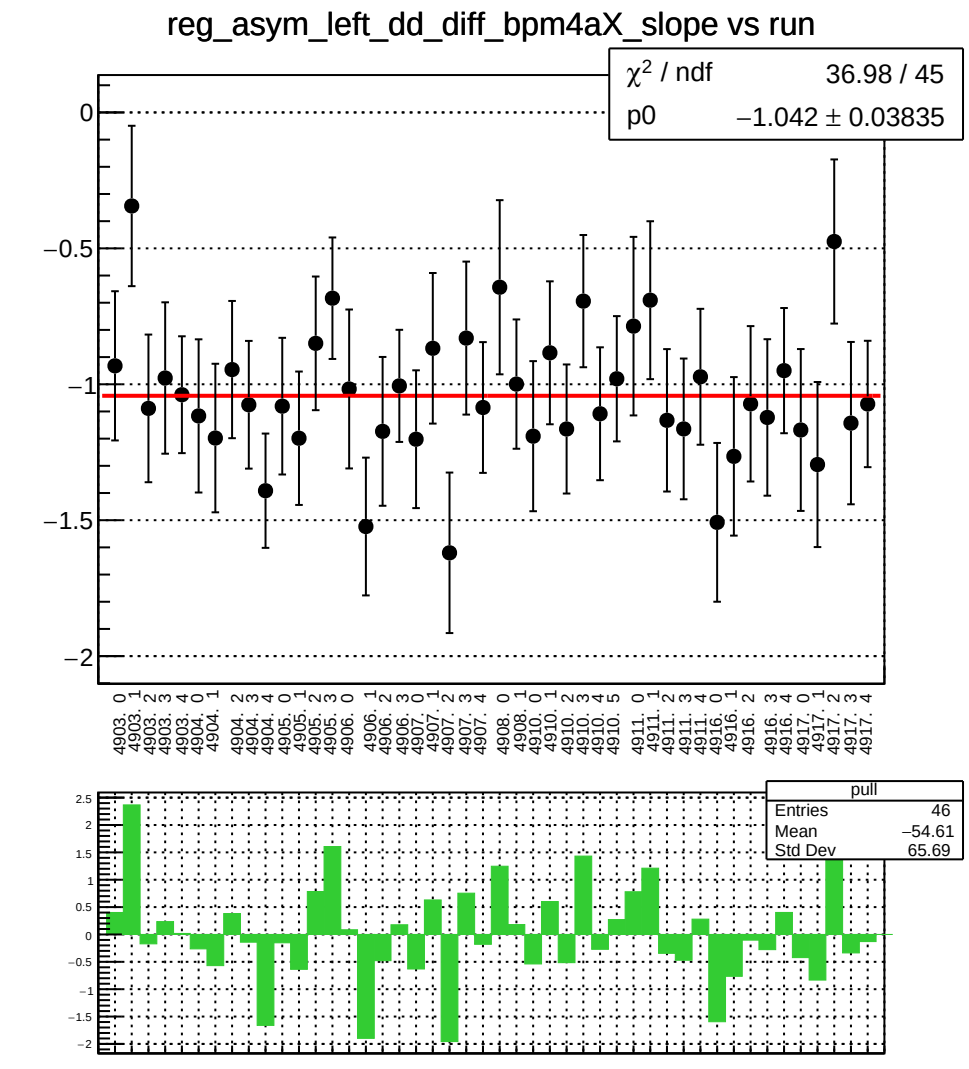

pull1D
Entries 46
Mean −0.008629
Std Dev 0.5511

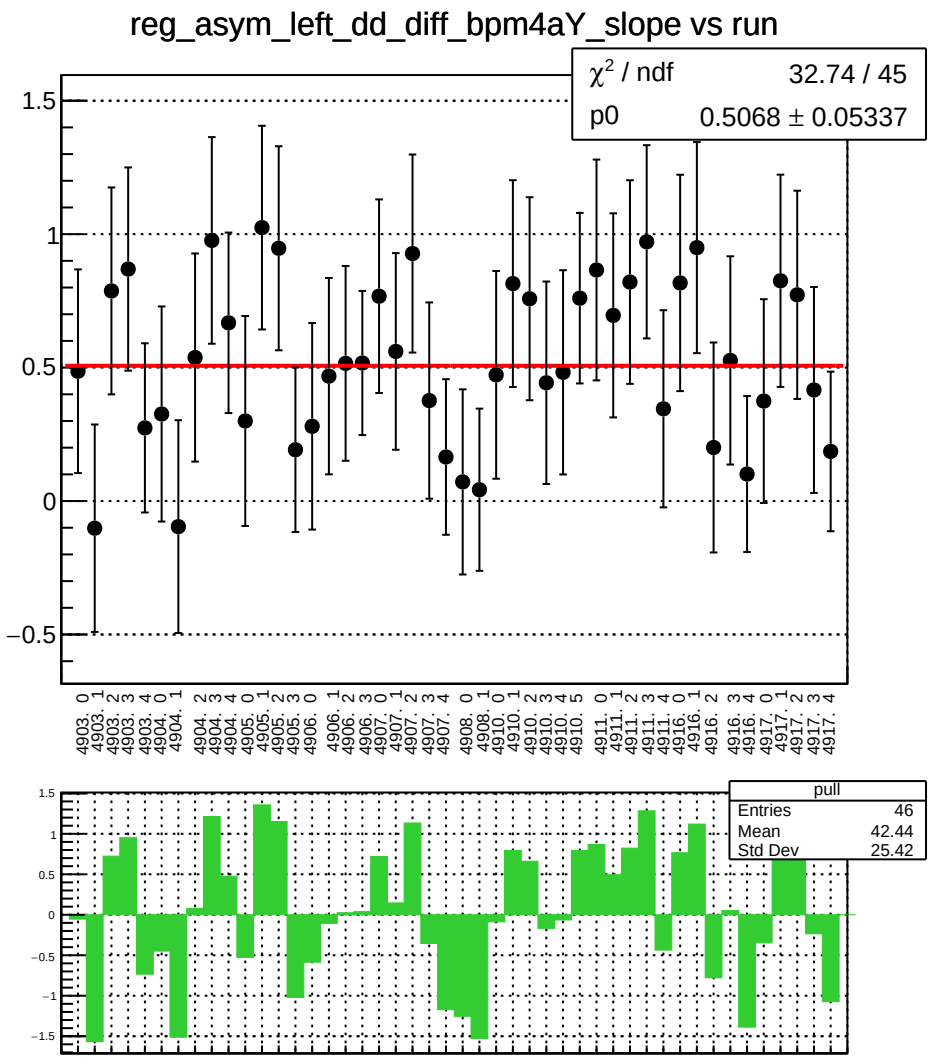

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.618 / 45
p0 20.56 ± 1.113
pull
Entries 46
Mean 1937
Std Dev 1933

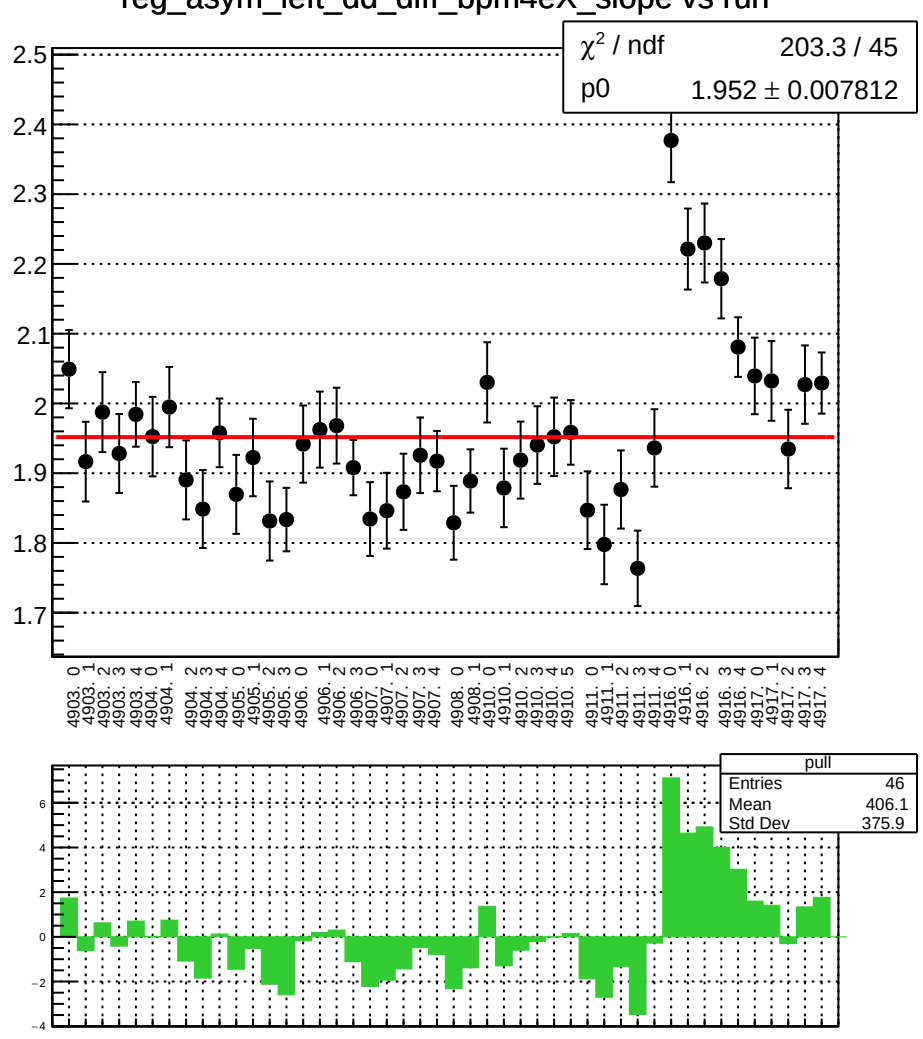

pull1D
Entries 46
Mean 0.000461
Std Dev 0.3793

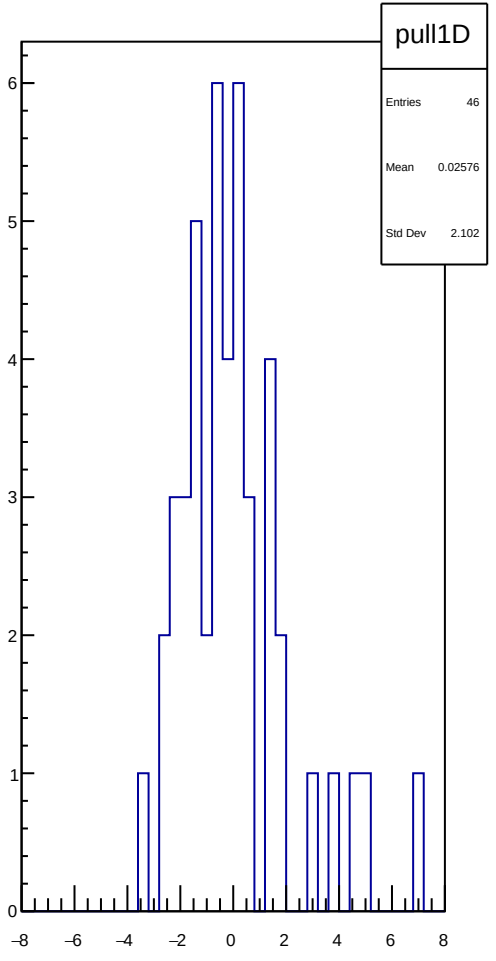

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 3.465 / 45
p0 −42.21 ± 0.2188
pull
Entries 46
Mean −1.272
Std Dev 47.06

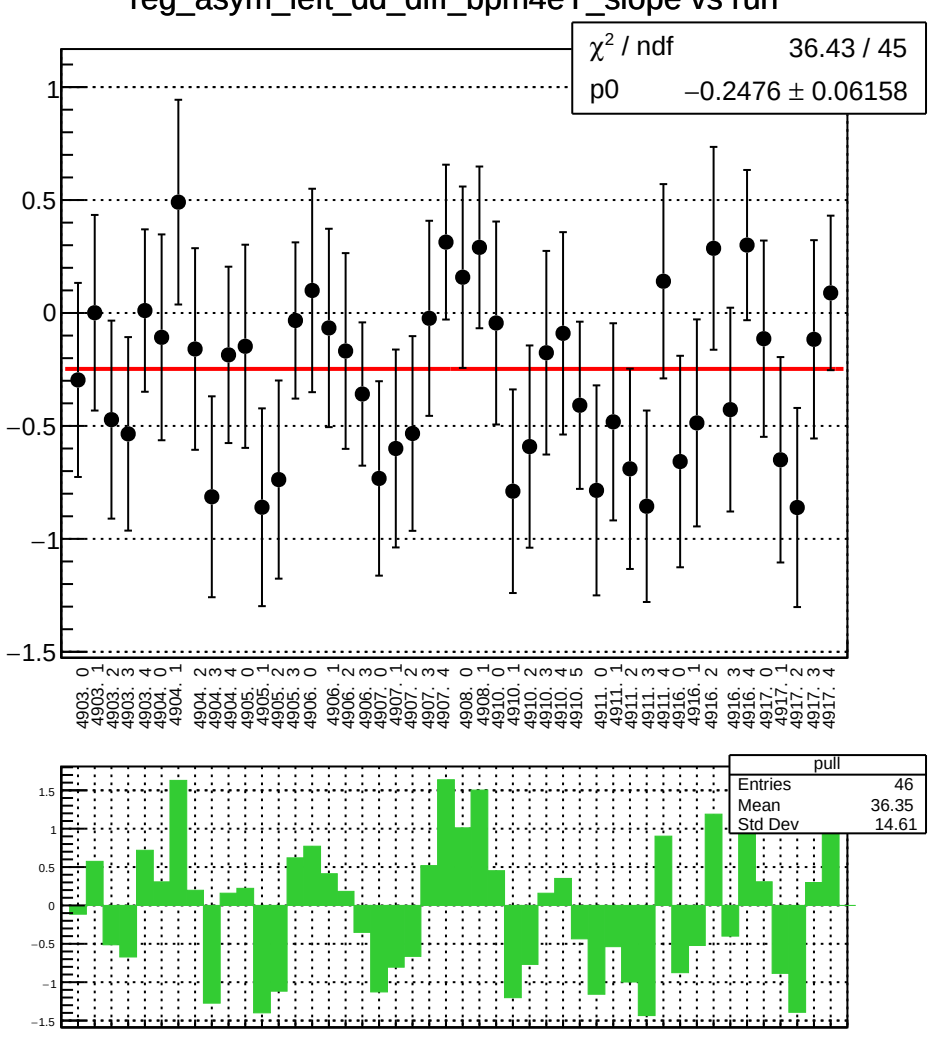

pull1D
Entries 46
Mean 0.008342
Std Dev 0.2743

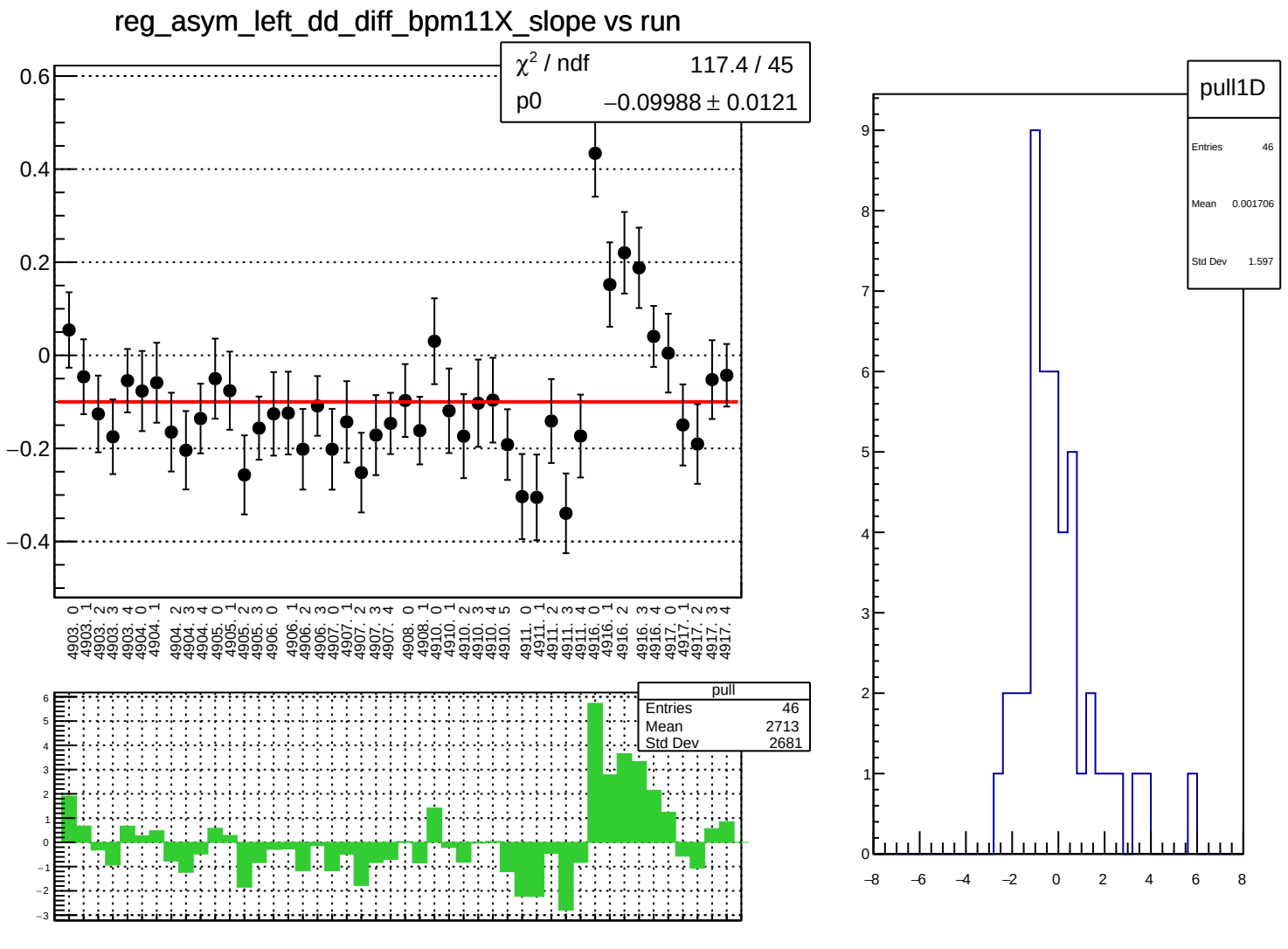

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.98 / 45
p0 −1.042 ± 0.03835
0
−0.5
−1
−1.5
−2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −54.61
Std Dev 65.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.008487
Std Dev 0.8966
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

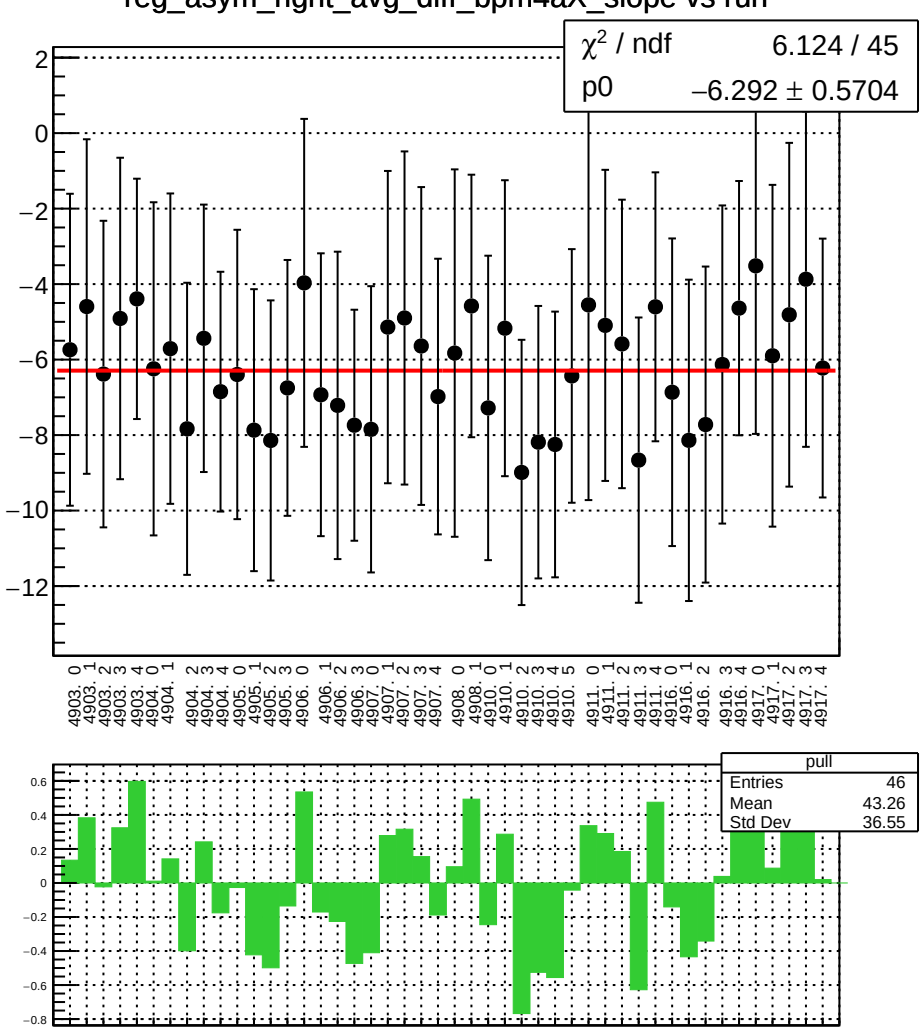

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.74 / 45
p0 0.5068 ± 0.05337
1.5
1
0.5
0
−0.5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 42.44
Std Dev 25.42
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.03737
Std Dev 0.8429
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

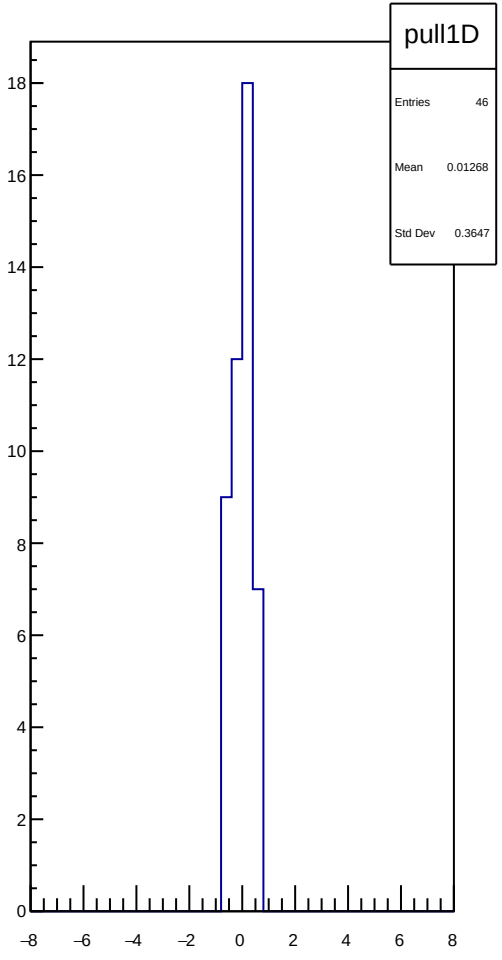

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 203.3 / 45
p0 1.952 ± 0.007812
pull
Entries 46
Mean 406.1
Std Dev 375.9

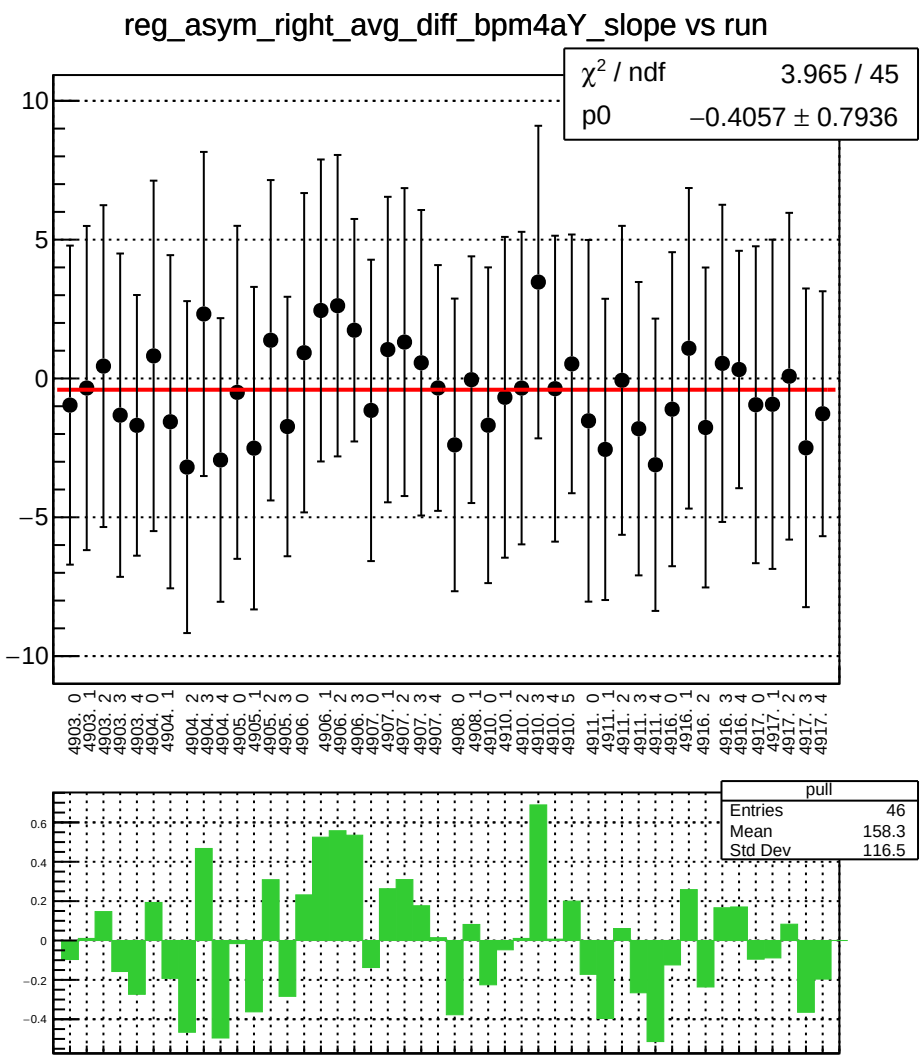

pull1D
Entries 46
Mean 0.02576
Std Dev 2.102

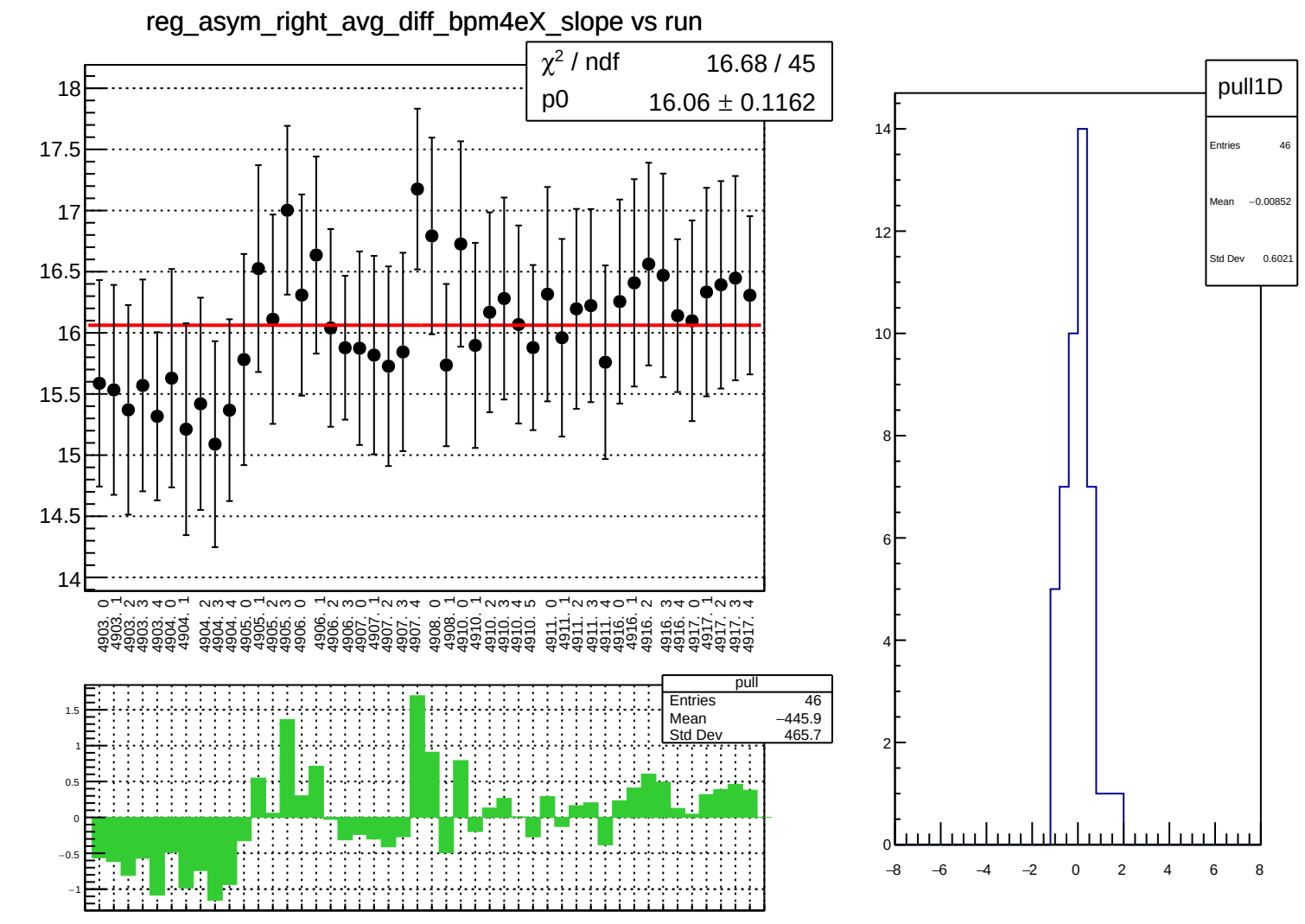

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.43 / 45
p0 −0.2476 ± 0.06158
pull
Entries 46
Mean 36.35
Std Dev 14.61
pull1D
Entries 46
Mean −0.04081
Std Dev 0.8889

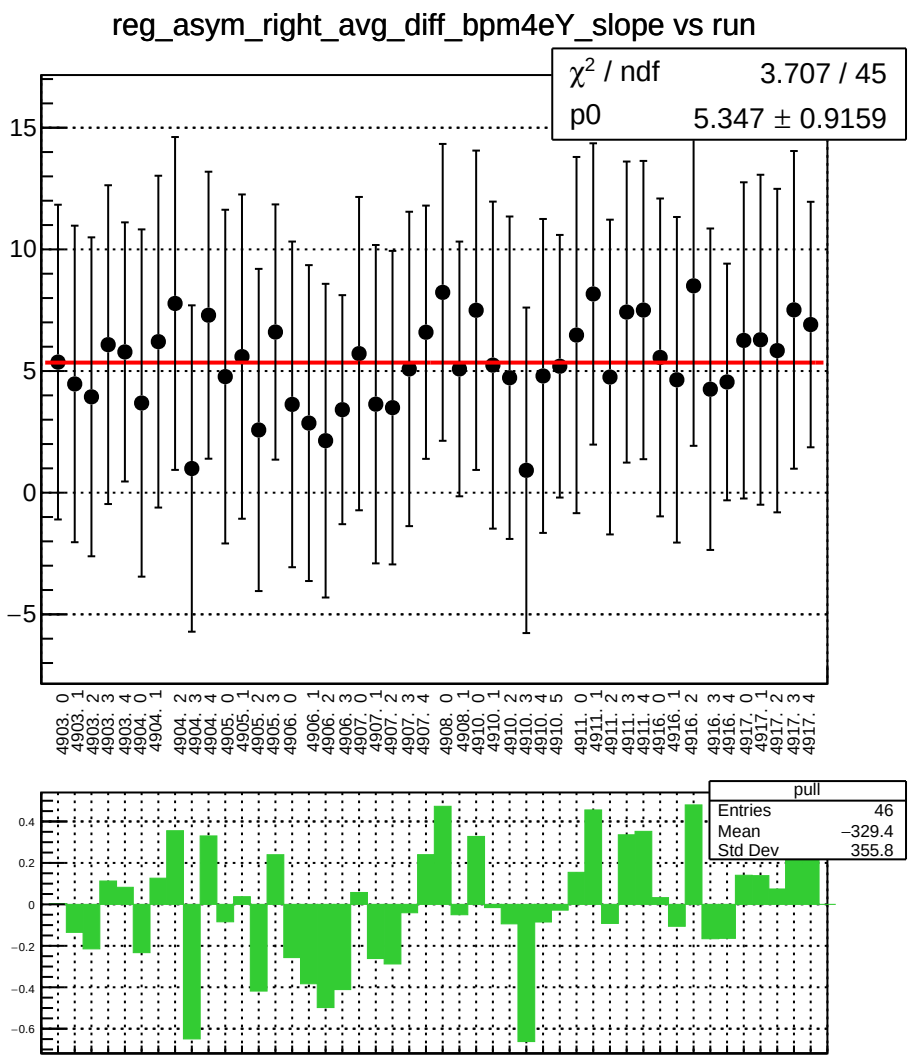

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 117.4 / 45
p0 −0.09988 ± 0.0121
0.6
0.4
0.2
0
−0.2
−0.4
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 2713
Std Dev 2681
6
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.001706
Std Dev 1.597
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

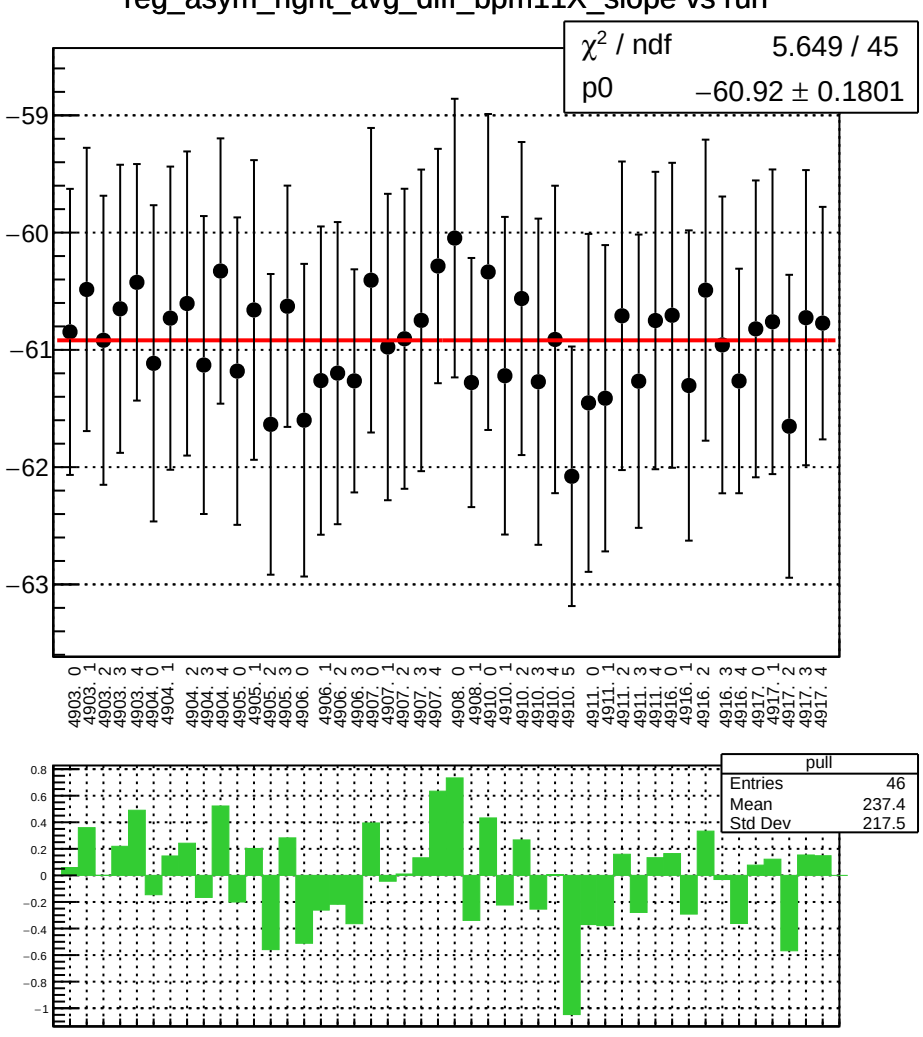

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.124 / 45
p0 −6.292 ± 0.5704
pull
Entries 46
Mean 43.26
Std Dev 36.55

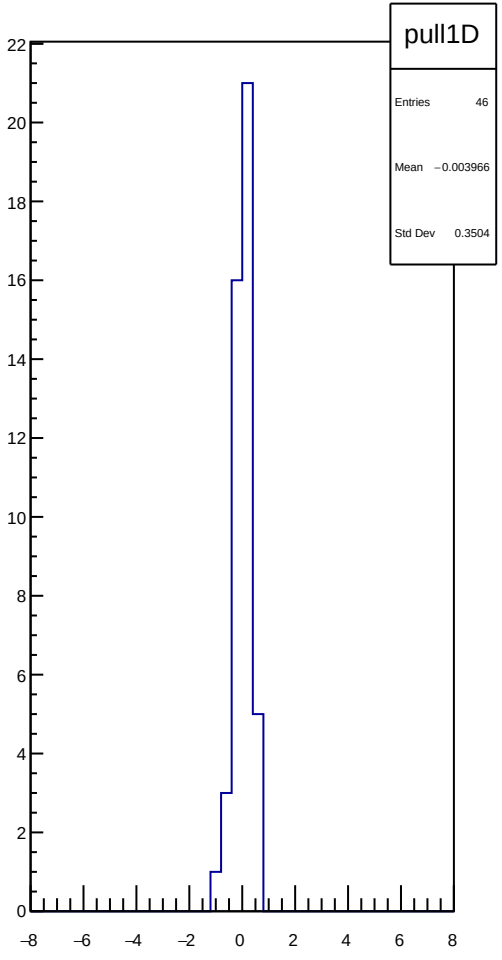

pull1D
Entries 46
Mean 0.01268
Std Dev 0.3647

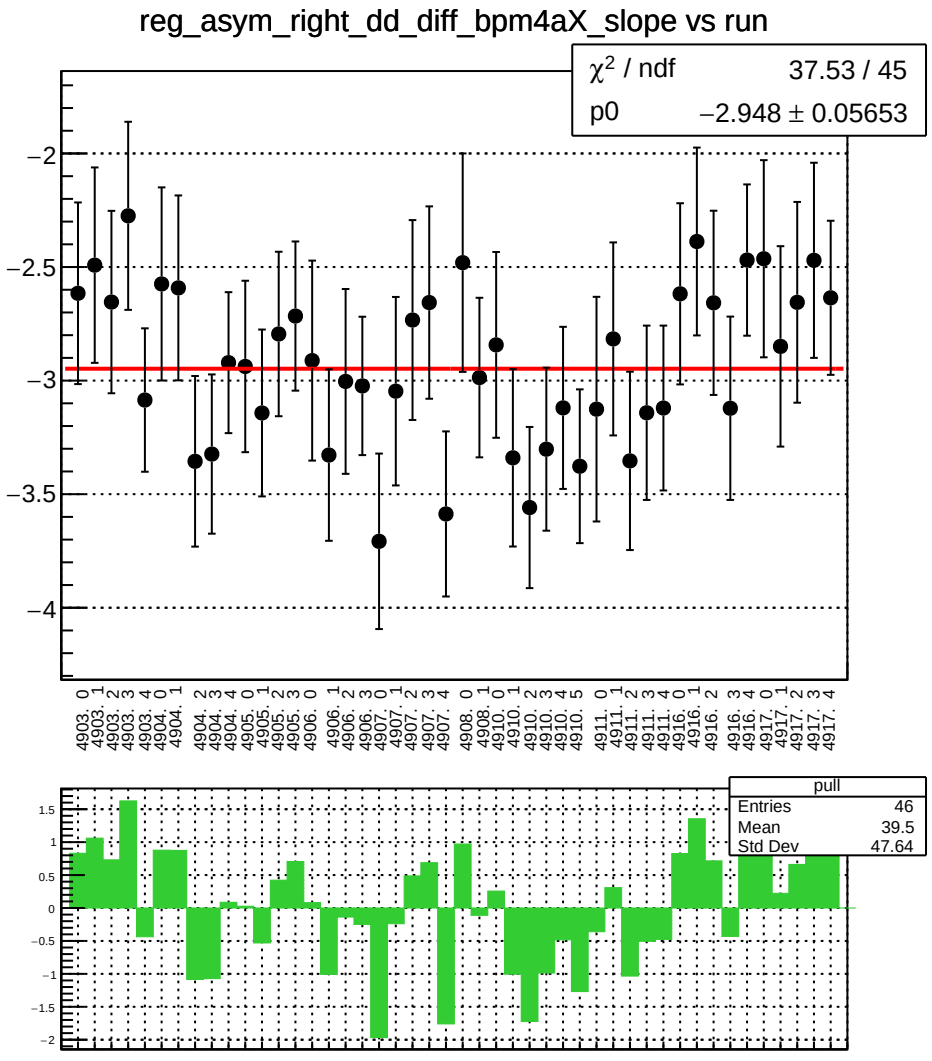

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.965 / 45
p0 −0.4057 ± 0.7936
10
5
0
−5
−10
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 158.3
Std Dev 116.5
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean −0.002471
Std Dev 0.2936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

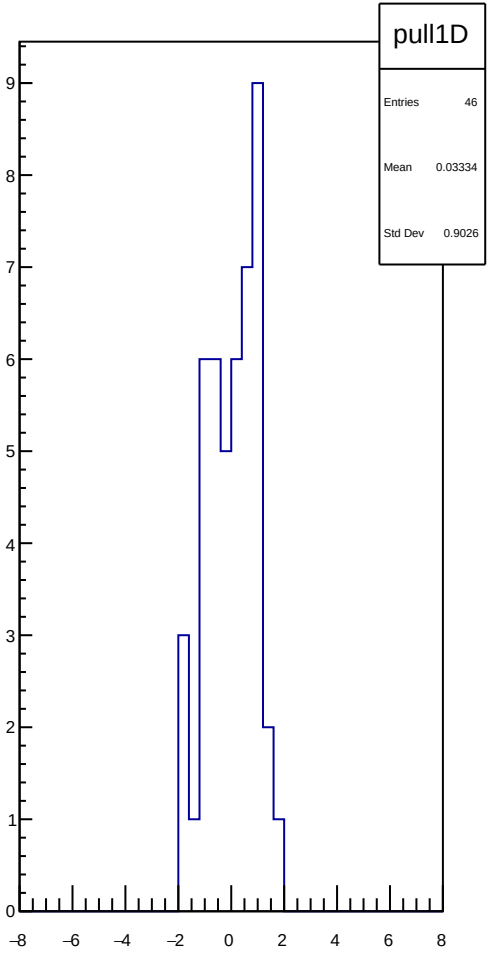

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.68 / 45
p0 16.06 ± 0.1162
pull
Entries 46
Mean −445.9
Std Dev 465.7
pull1D
Entries 46
Mean −0.00852
Std Dev 0.6021

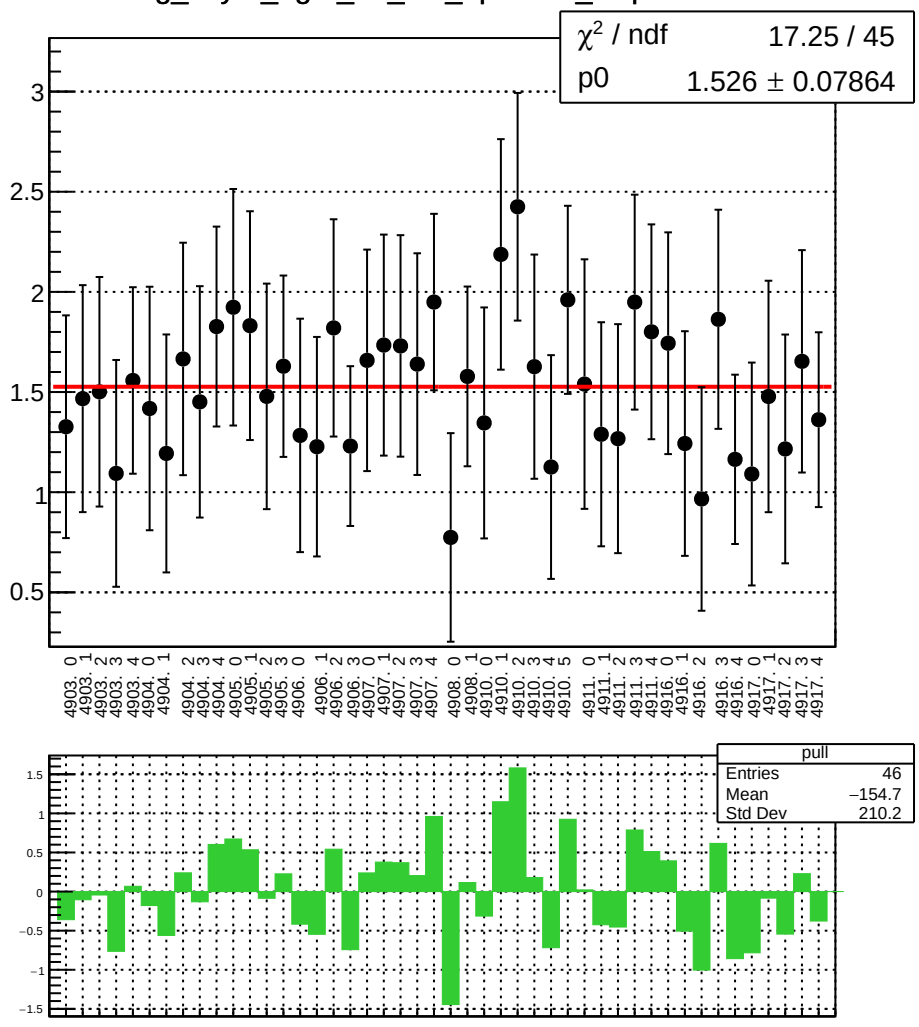

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.707 / 45
p0 5.347 ± 0.9159
15
10
5
0
−5
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −329.4
Std Dev 355.8
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.003102
Std Dev 0.2838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

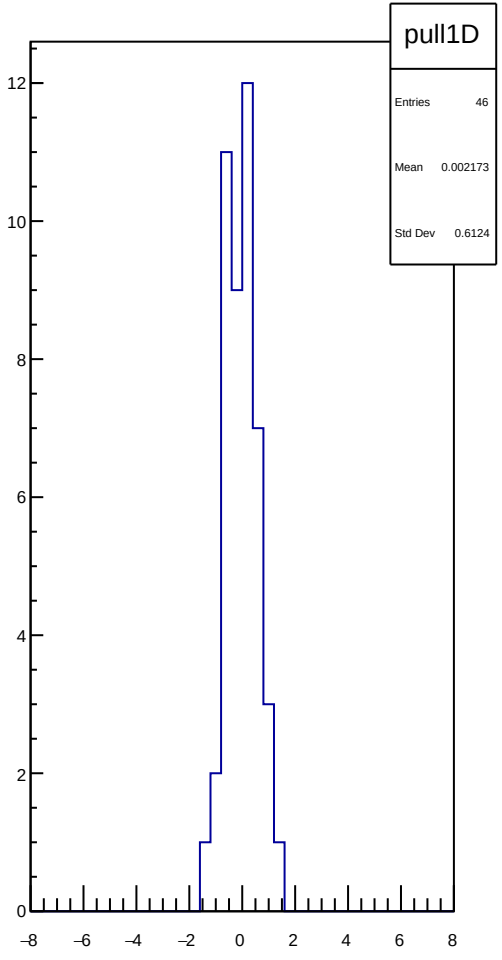

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 5.649 / 45
p0 −60.92 ± 0.1801
pull
Entries 46
Mean 237.4
Std Dev 217.5

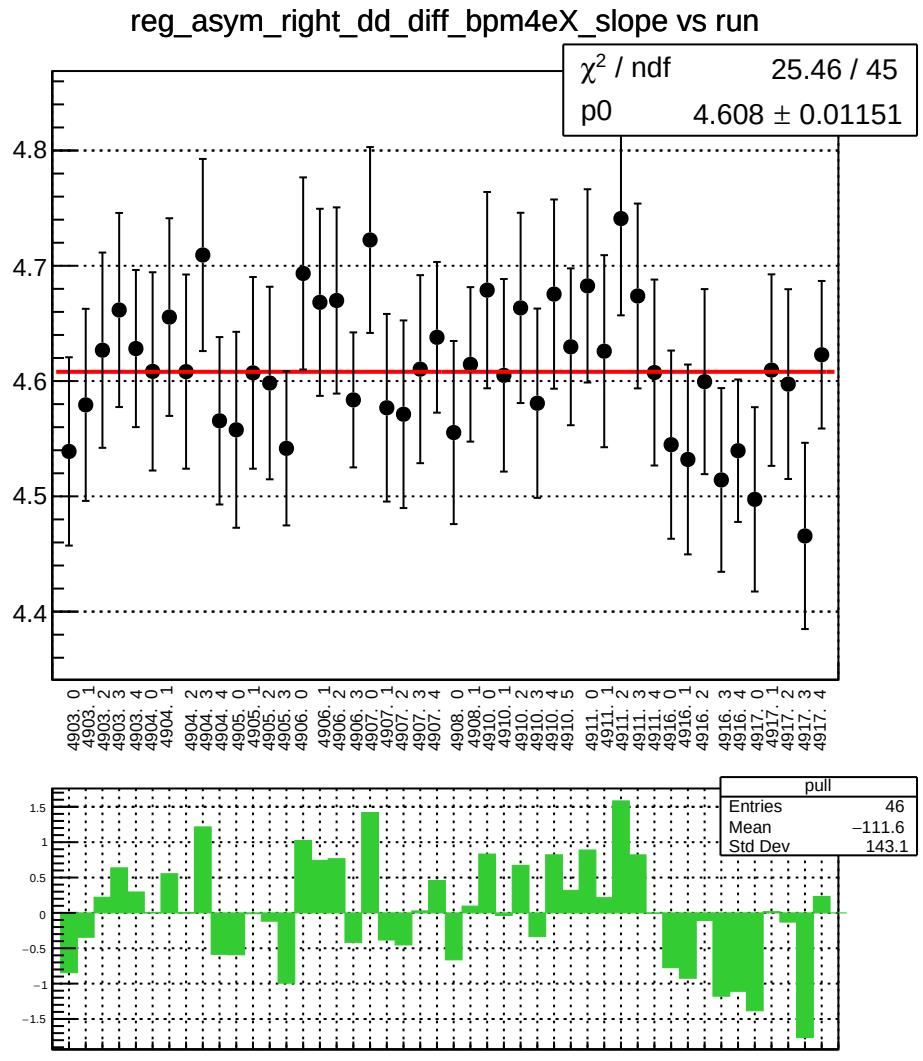

pull1D
Entries 46
Mean −0.003966
Std Dev 0.3504

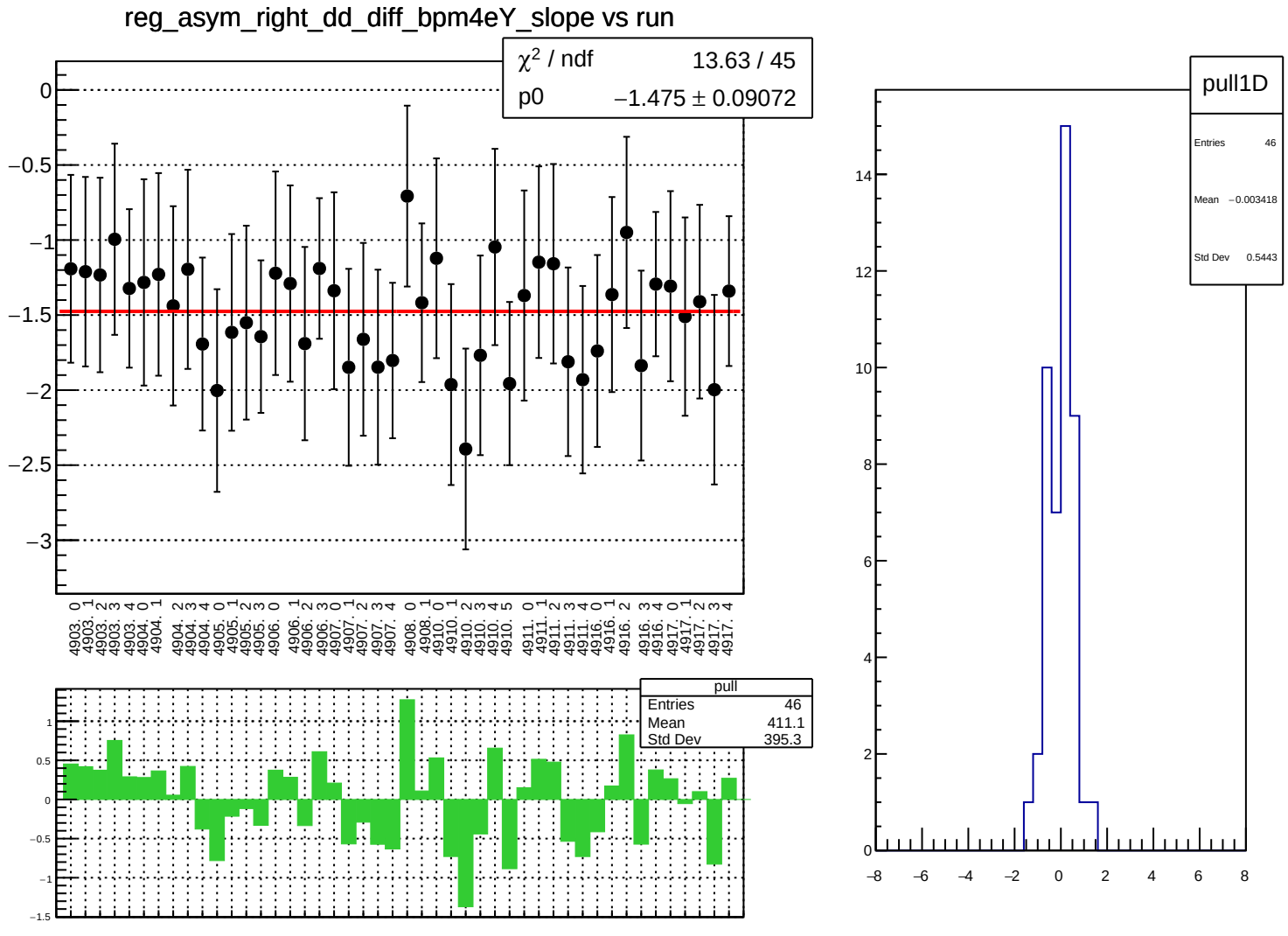

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.53 / 45
p0 −2.948 ± 0.05653
pull
Entries 46
Mean 39.5
Std Dev 47.64

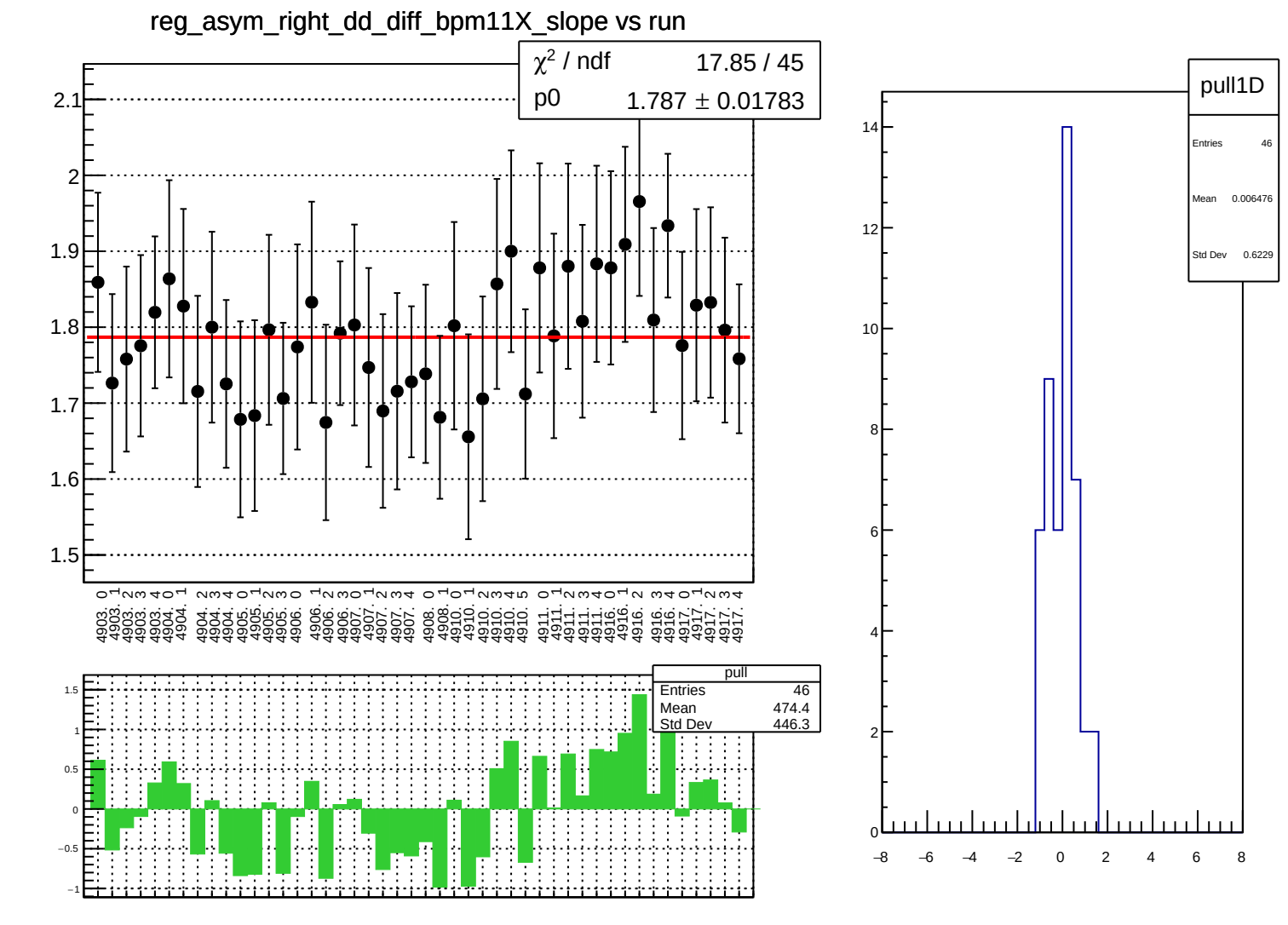

pull1D
Entries 46
Mean 0.03334
Std Dev 0.9026

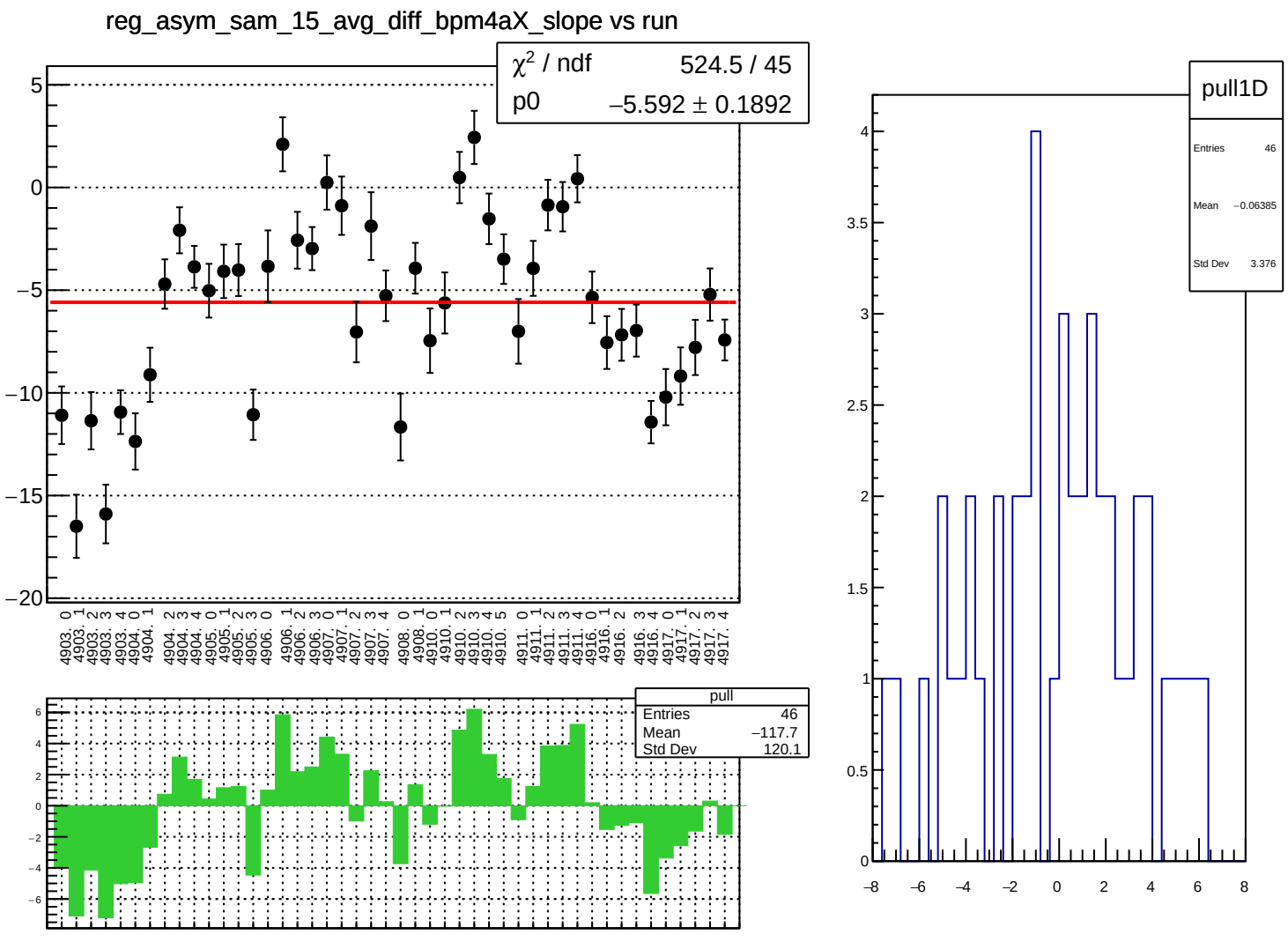

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.25 / 45
p0 1.526 ± 0.07864
pull
Entries 46
Mean −154.7
Std Dev 210.2

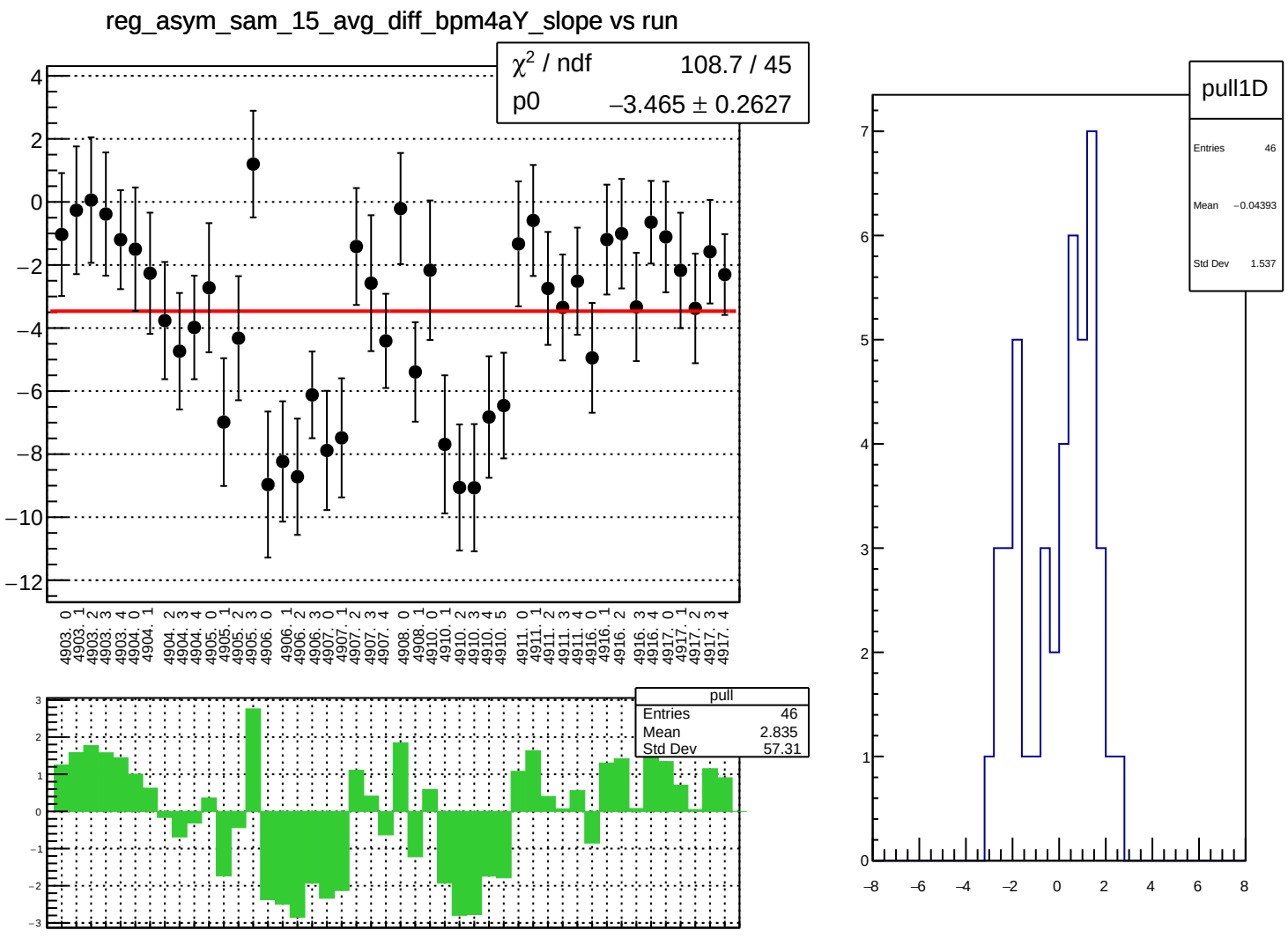

pull1D
Entries 46
Mean 0.002173
Std Dev 0.6124

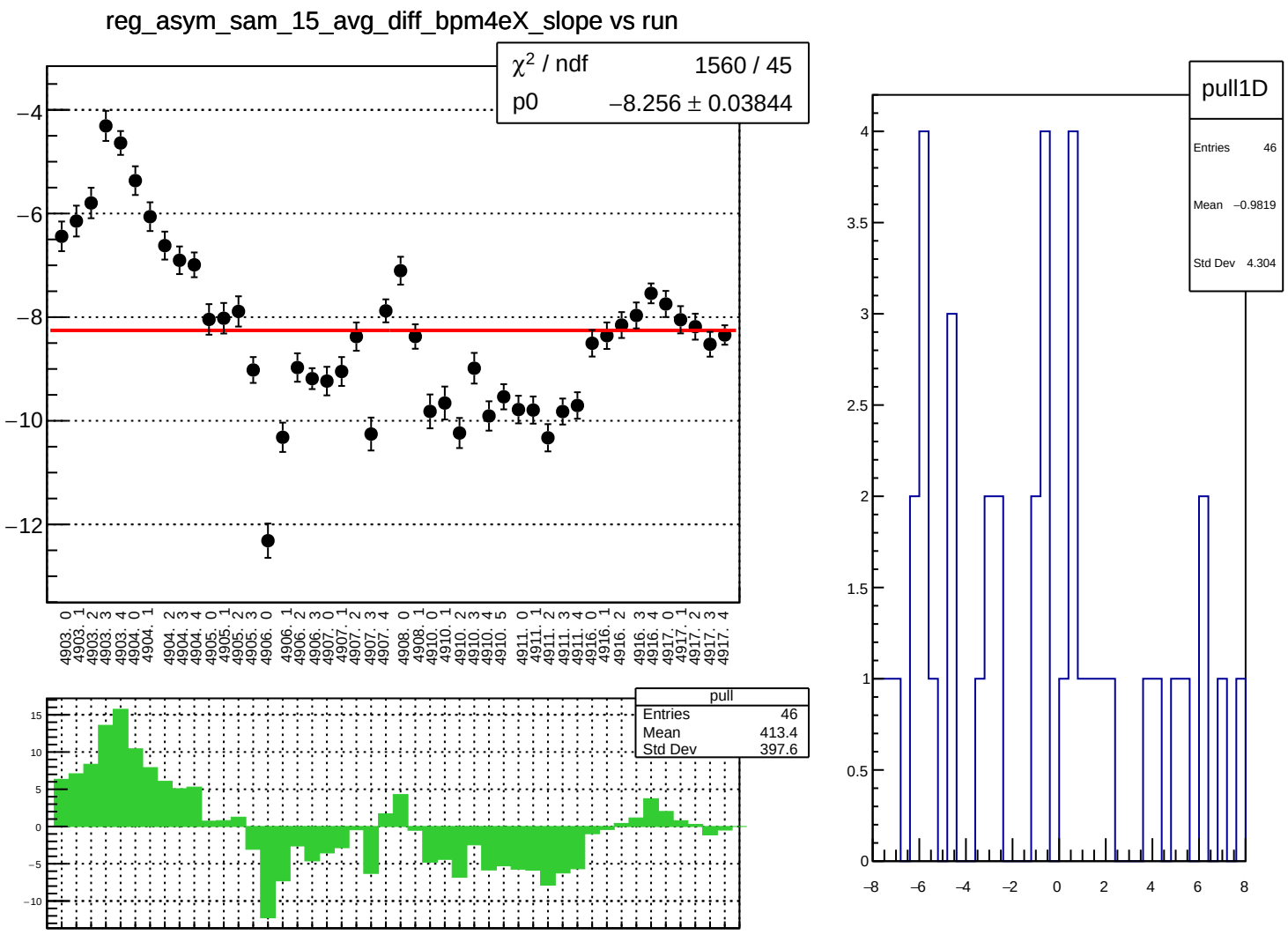

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.46 / 45
p0 4.608 ± 0.01151
4.8
4.7
4.6
4.5
4.4
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −111.6
Std Dev 143.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.0156
Std Dev 0.7437
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

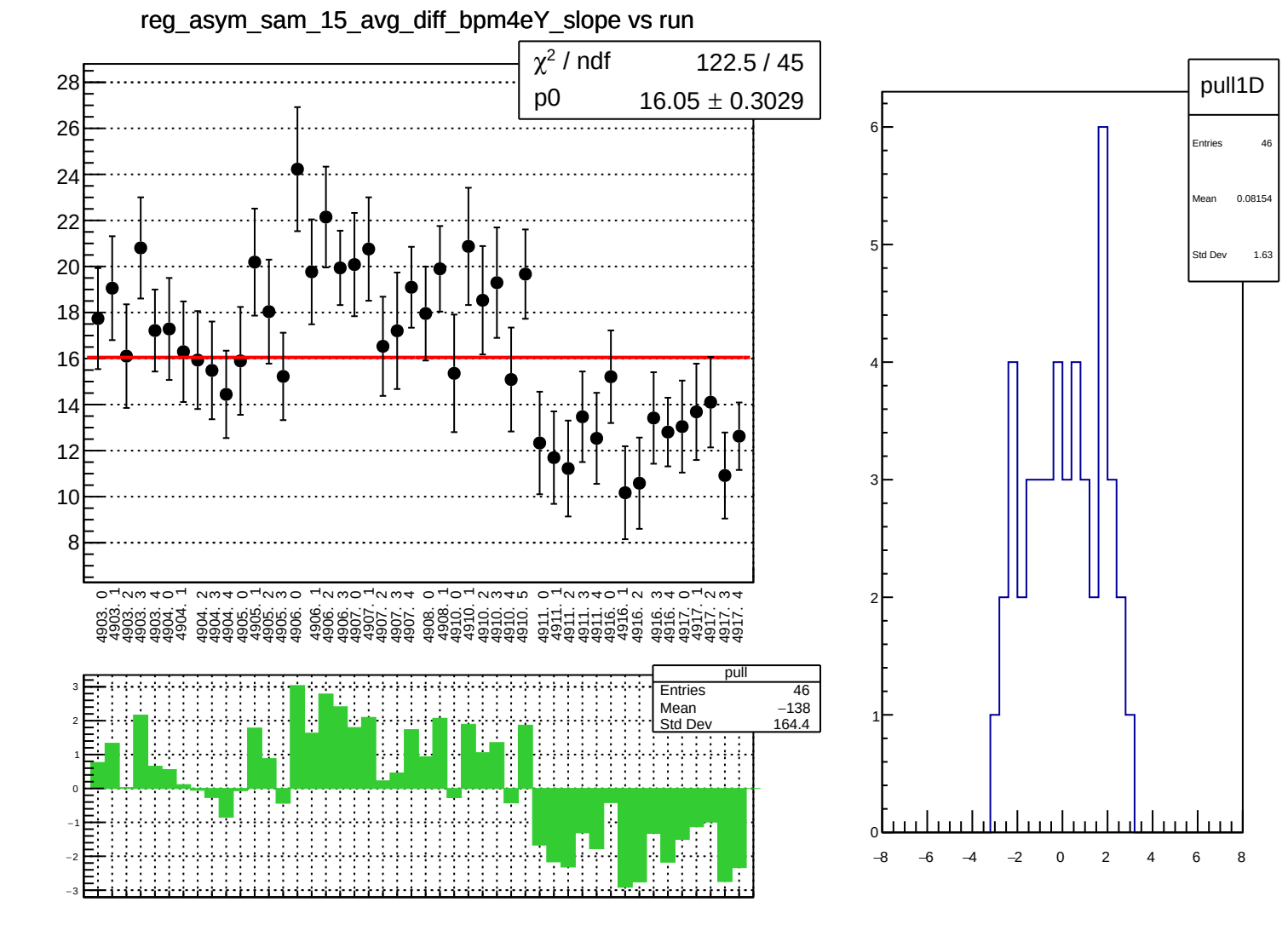

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.63 / 45
p0 −1.475 ± 0.09072
0
−0.5
−1
−1.5
−2
−2.5
−3
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 411.1
Std Dev 395.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.003418
Std Dev 0.5443
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

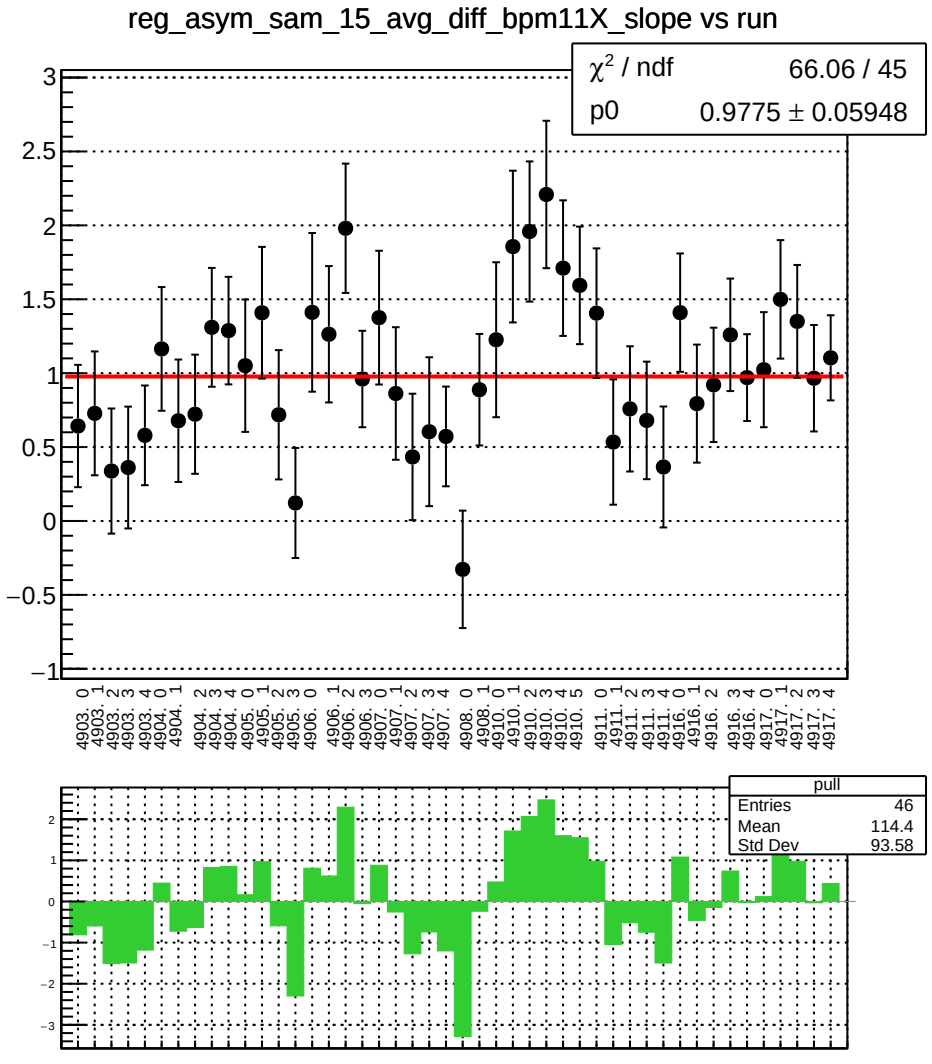

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 17.85 / 45
p0 1.787 ± 0.01783
pull
Entries 46
Mean 474.4
Std Dev 446.3
pull1D
Entries 46
Mean 0.006476
Std Dev 0.6229

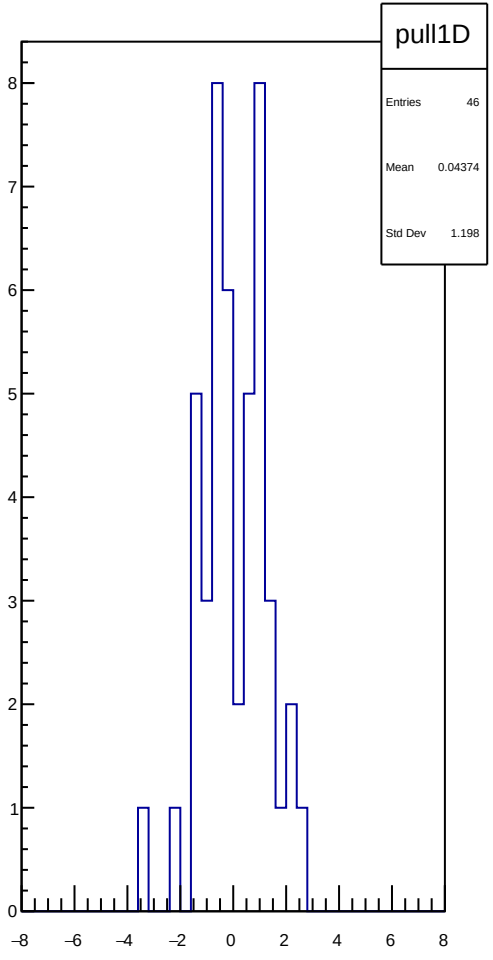

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 524.5 / 45
p0 −5.592 ± 0.1892
pull
Entries 46
Mean −117.7
Std Dev 120.1
pull1D
Entries 46
Mean −0.06385
Std Dev 3.376

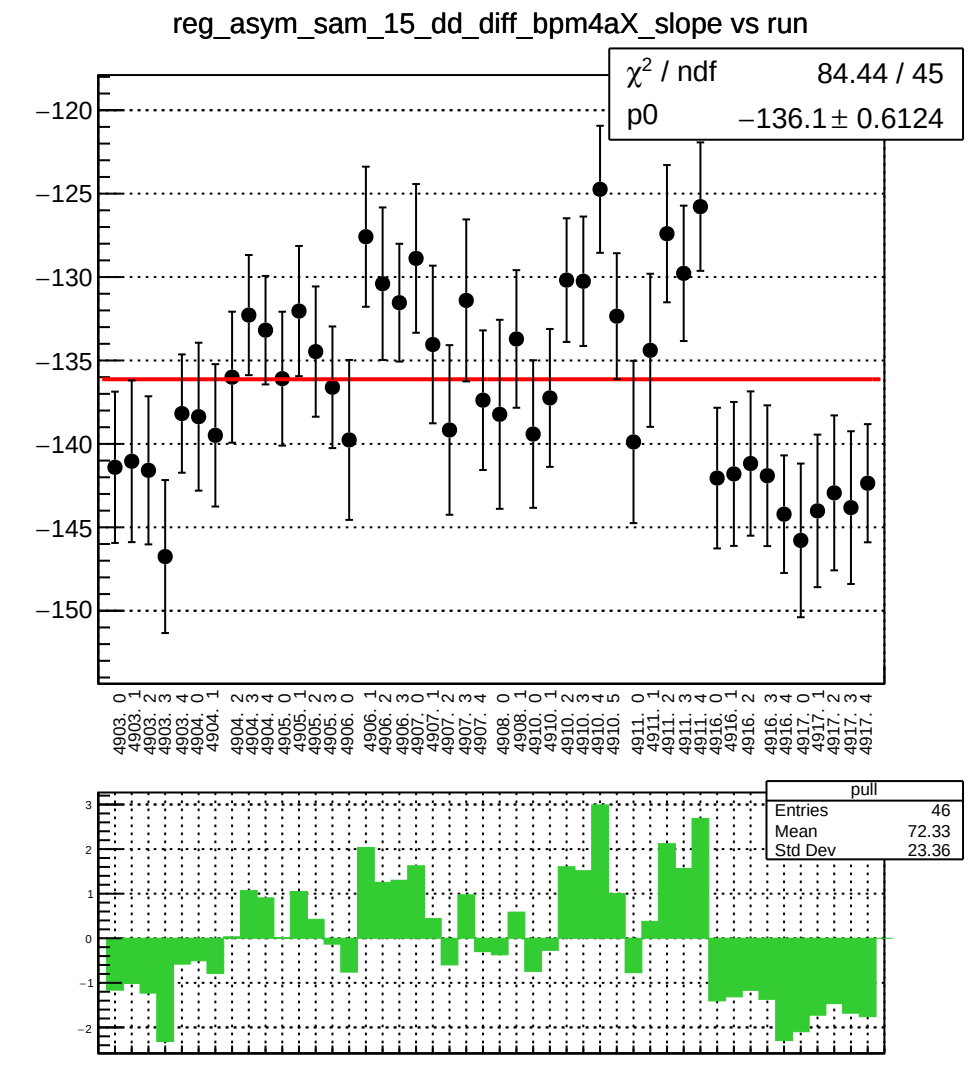

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 108.7 / 45
p0 −3.465 ± 0.2627
pull
Entries 46
Mean 2.835
Std Dev 57.31
pull1D
Entries 46
Mean −0.04393
Std Dev 1.537

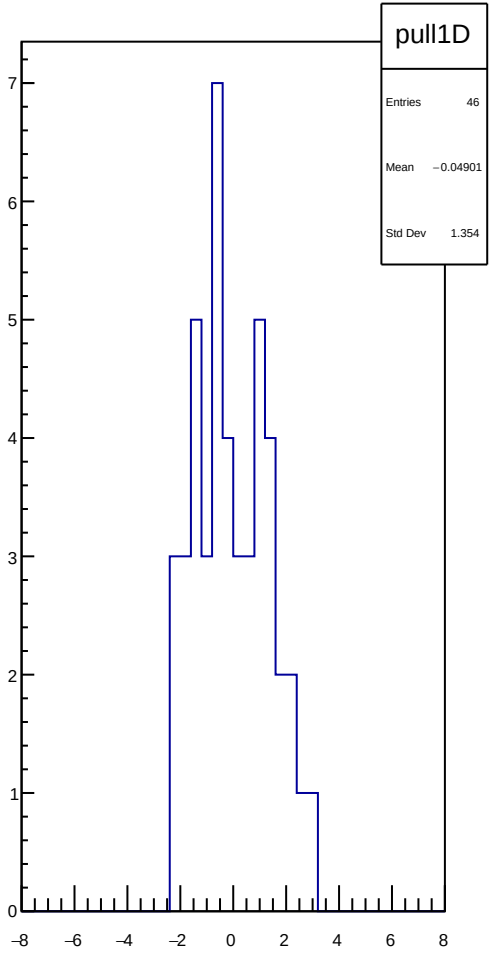

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1560 / 45
p0 −8.256 ± 0.03844
pull
Entries 46
Mean 413.4
Std Dev 397.6
pull1D
Entries 46
Mean −0.9819
Std Dev 4.304

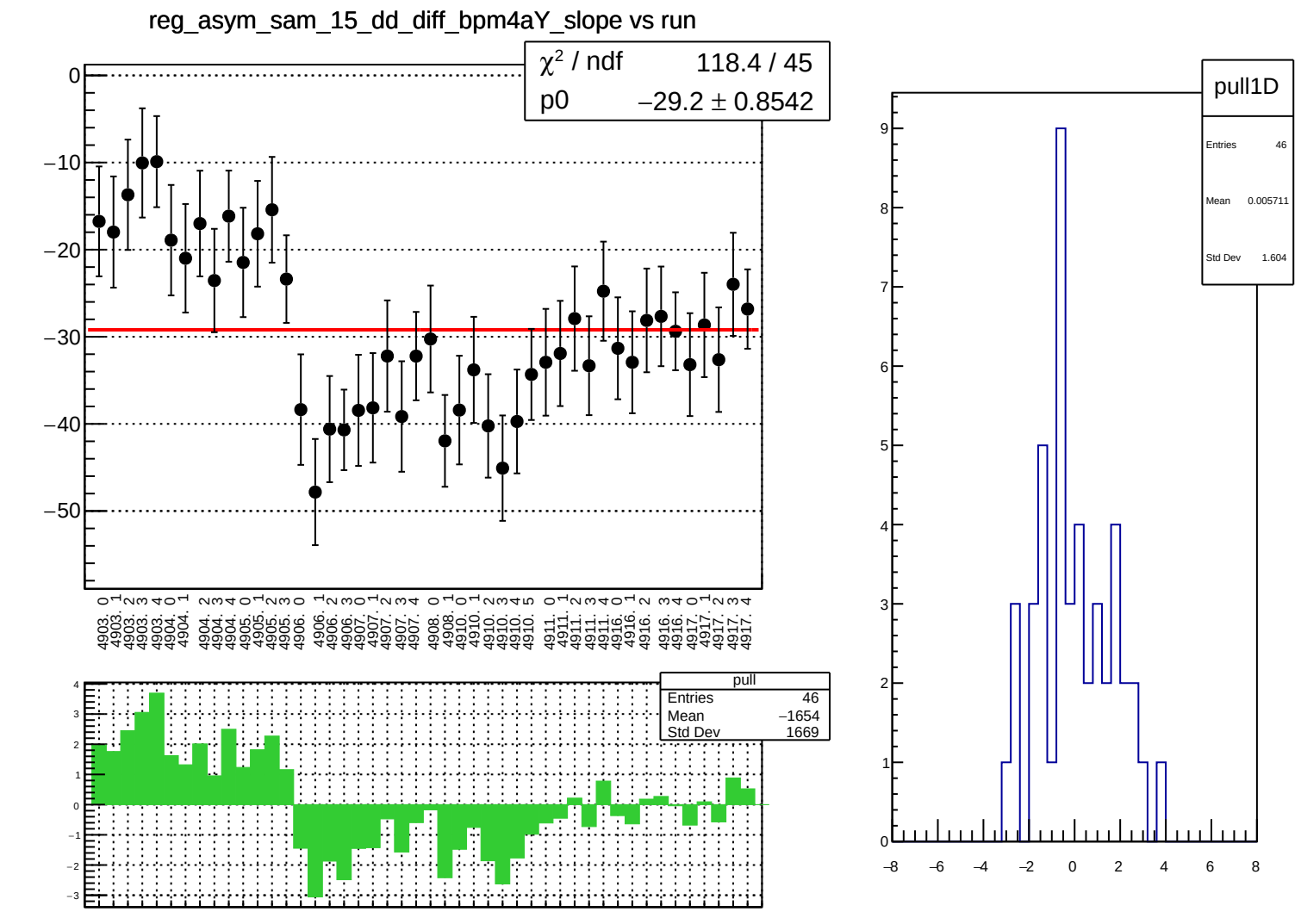

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 122.5 / 45
p0 16.05 ± 0.3029
pull
Entries 46
Mean −138
Std Dev 164.4
pull1D
Entries 46
Mean 0.08154
Std Dev 1.63

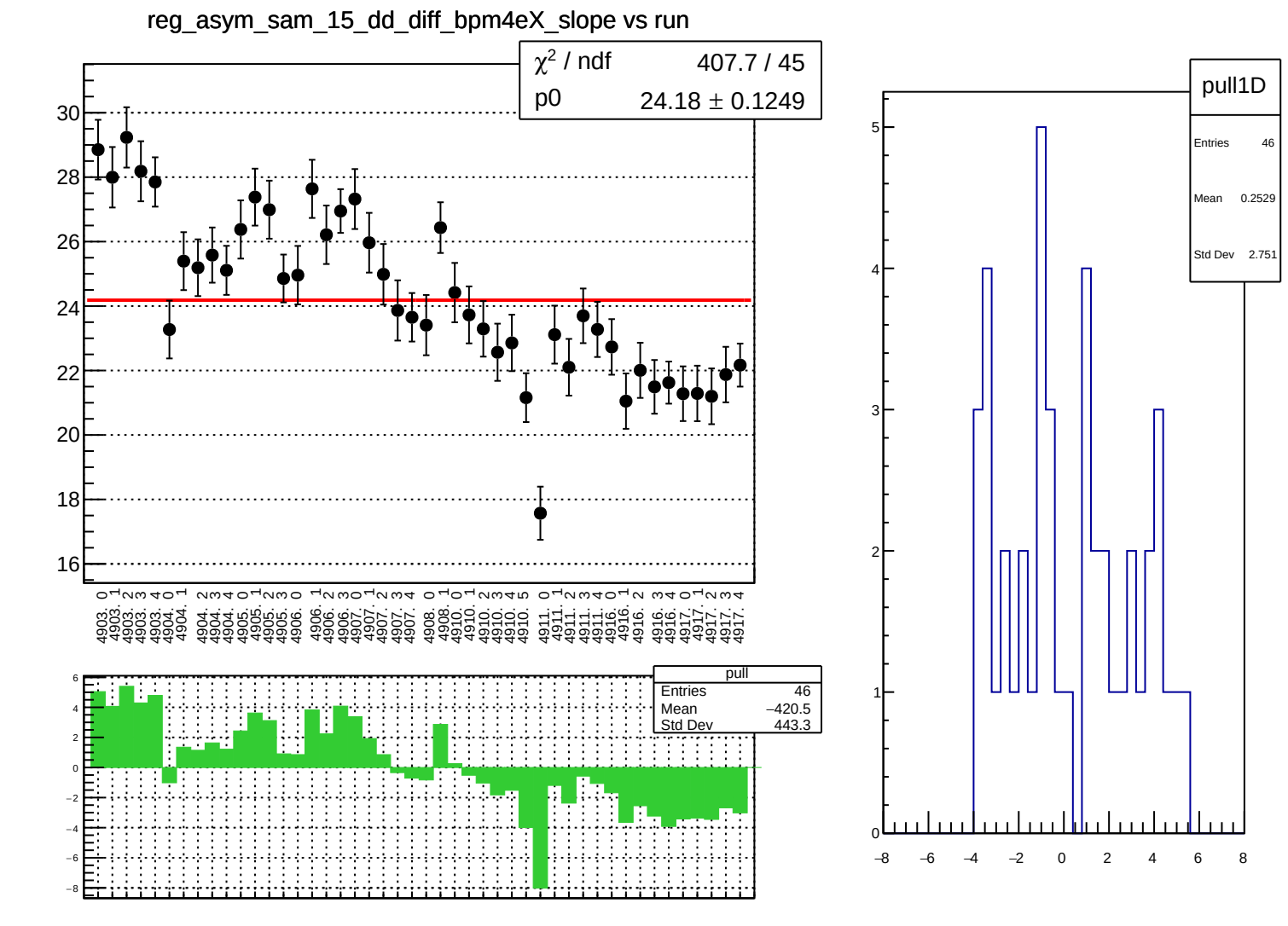

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 66.06 / 45
p0 0.9775 ± 0.05948
pull
Entries 46
Mean 114.4
Std Dev 93.58

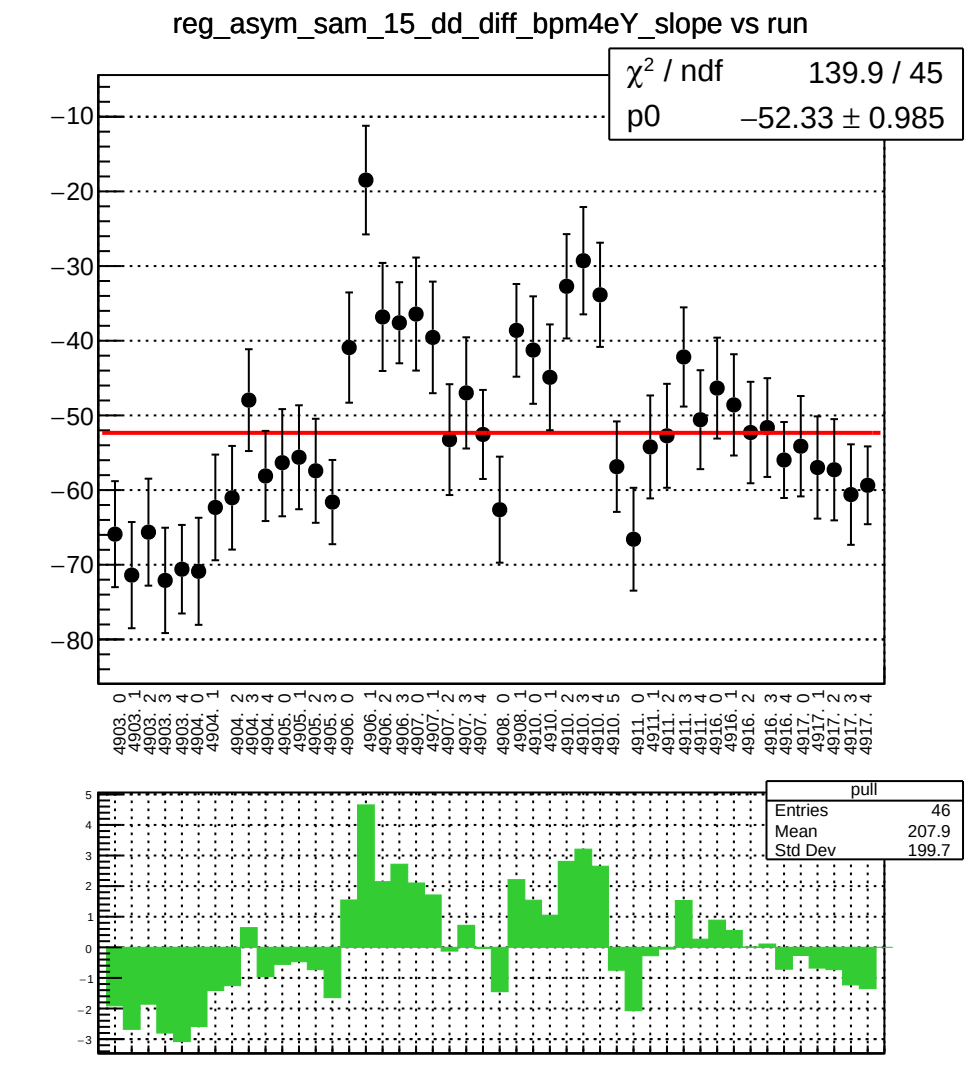

pull1D
Entries 46
Mean 0.04374
Std Dev 1.198

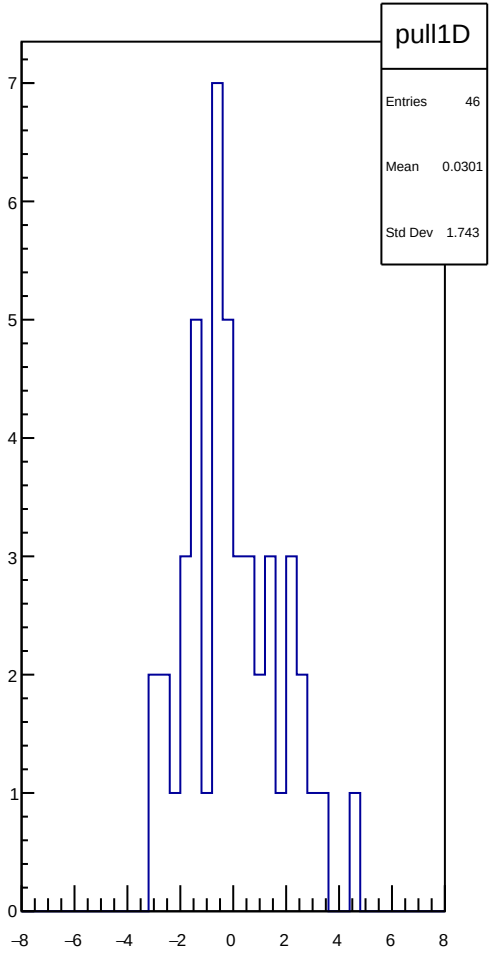

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 84.44 / 45
p0 −136.1 ± 0.6124
pull
Entries 46
Mean 72.33
Std Dev 23.36

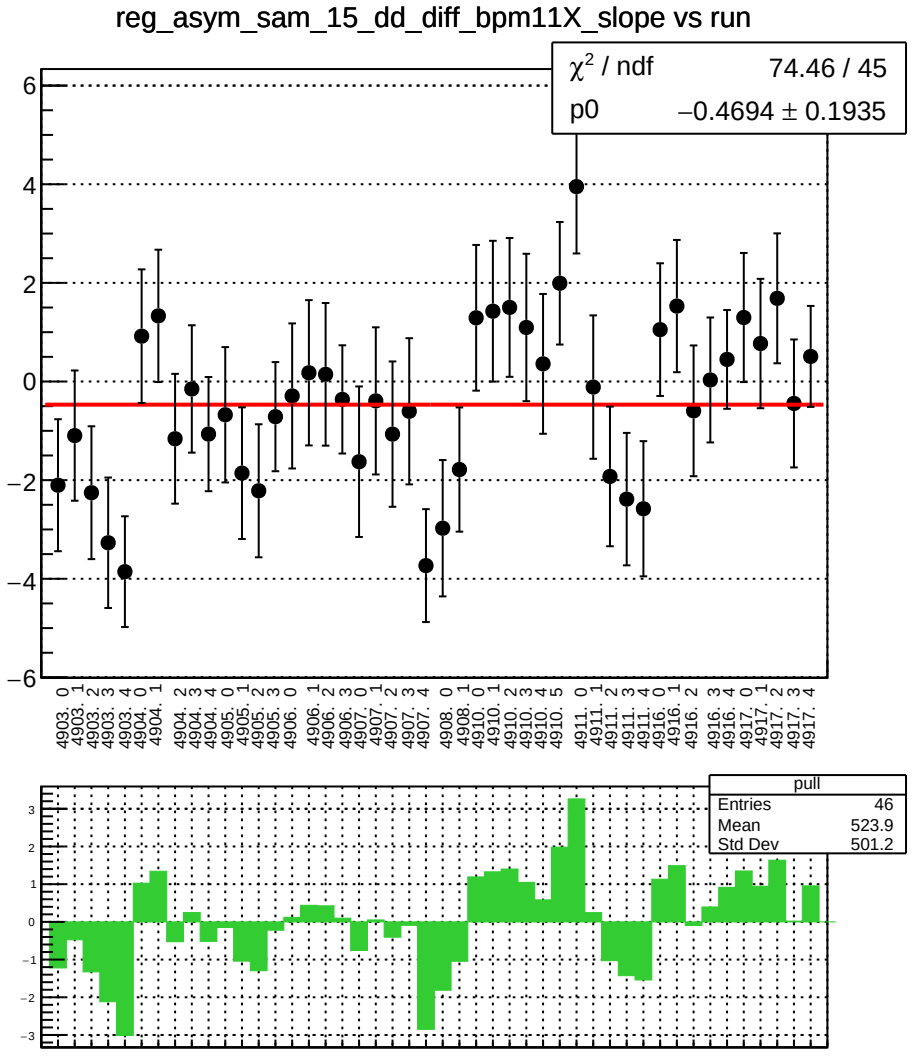

pull1D
Entries 46
Mean −0.04901
Std Dev 1.354

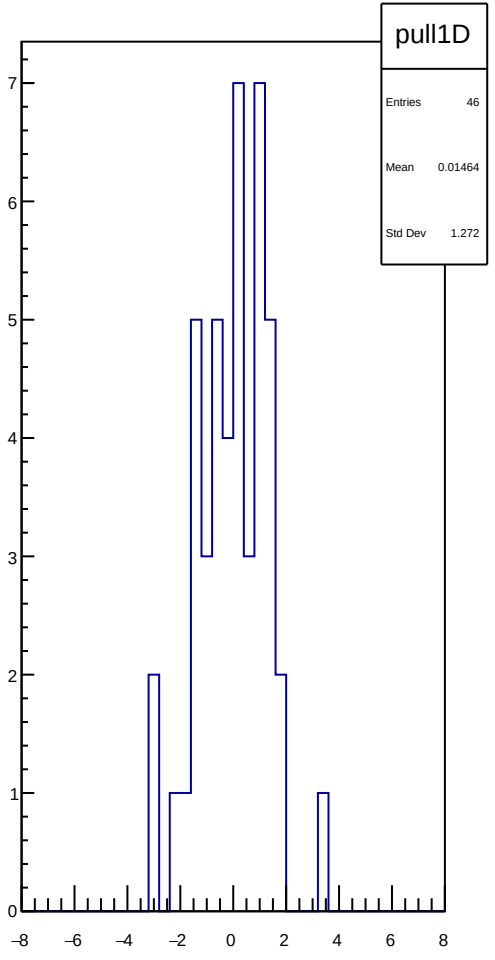

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 118.4 / 45
p0 −29.2 ± 0.8542
pull
Entries 46
Mean −1654
Std Dev 1669
pull1D
Entries 46
Mean 0.005711
Std Dev 1.604

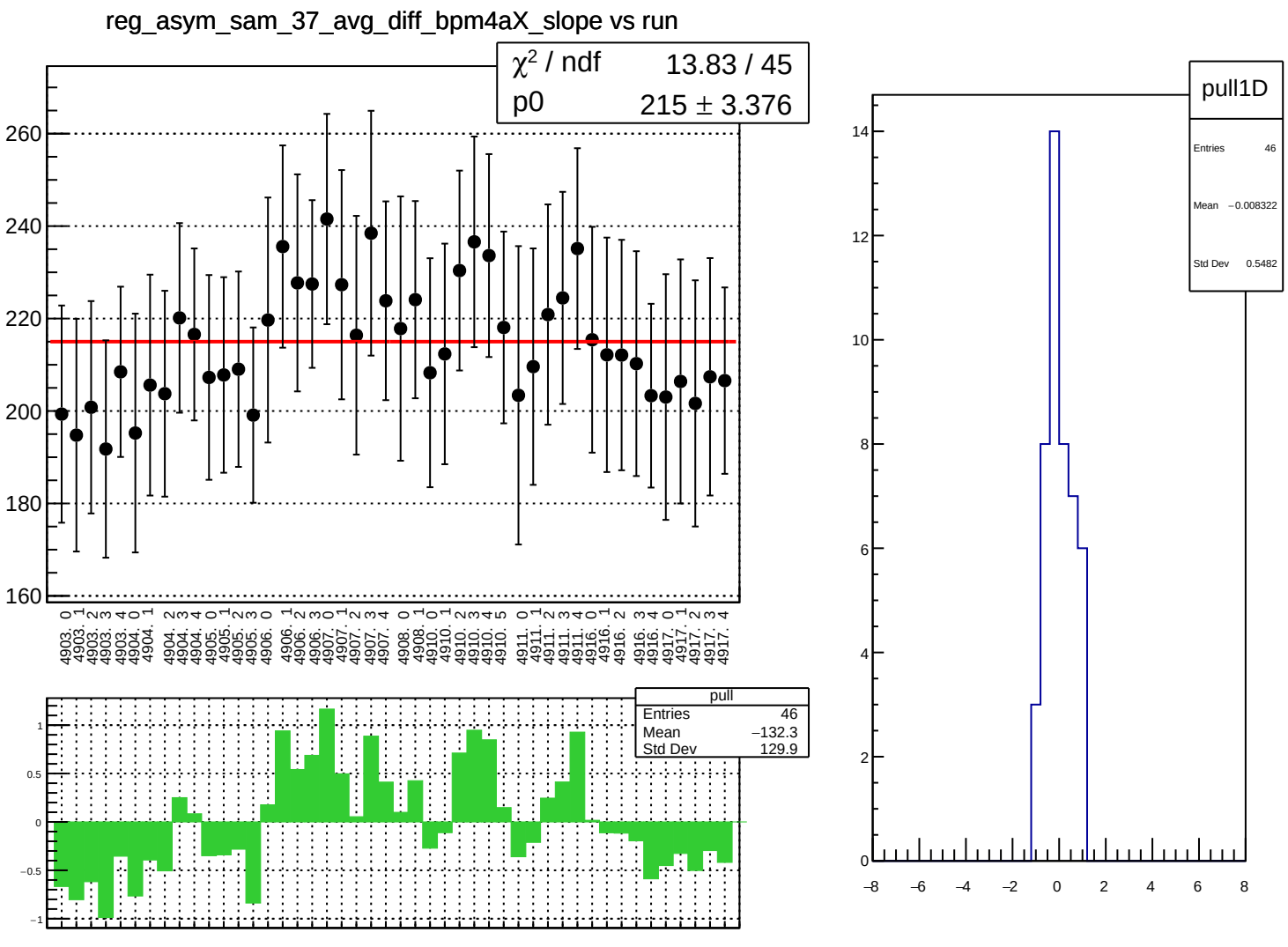

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 407.7 / 45
p0 24.18 ± 0.1249
pull
Entries 46
Mean −420.5
Std Dev 443.3
pull1D
Entries 46
Mean 0.2529
Std Dev 2.751

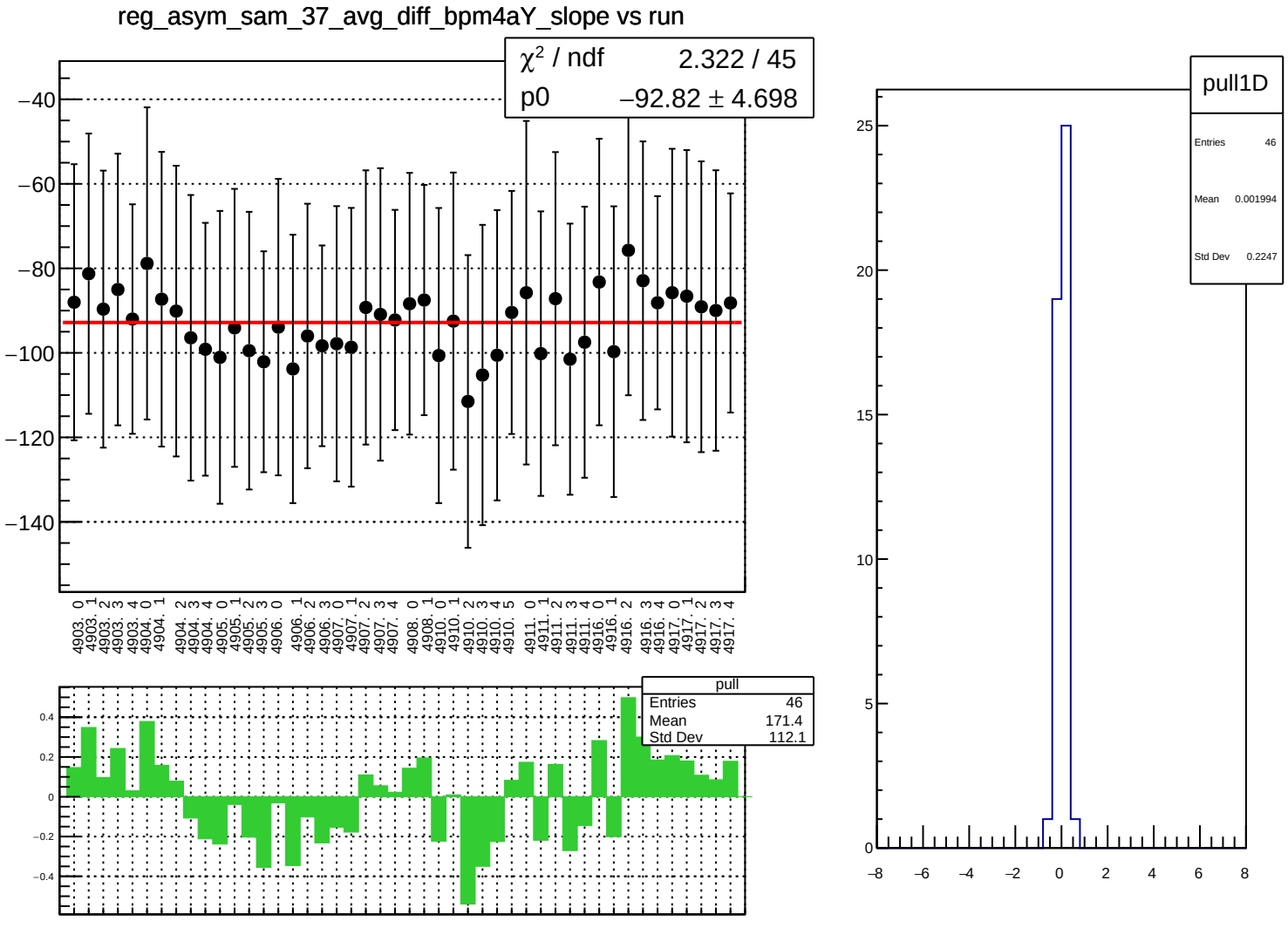

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.9 / 45
p0 −52.33 ± 0.985
pull
Entries 46
Mean 207.9
Std Dev 199.7

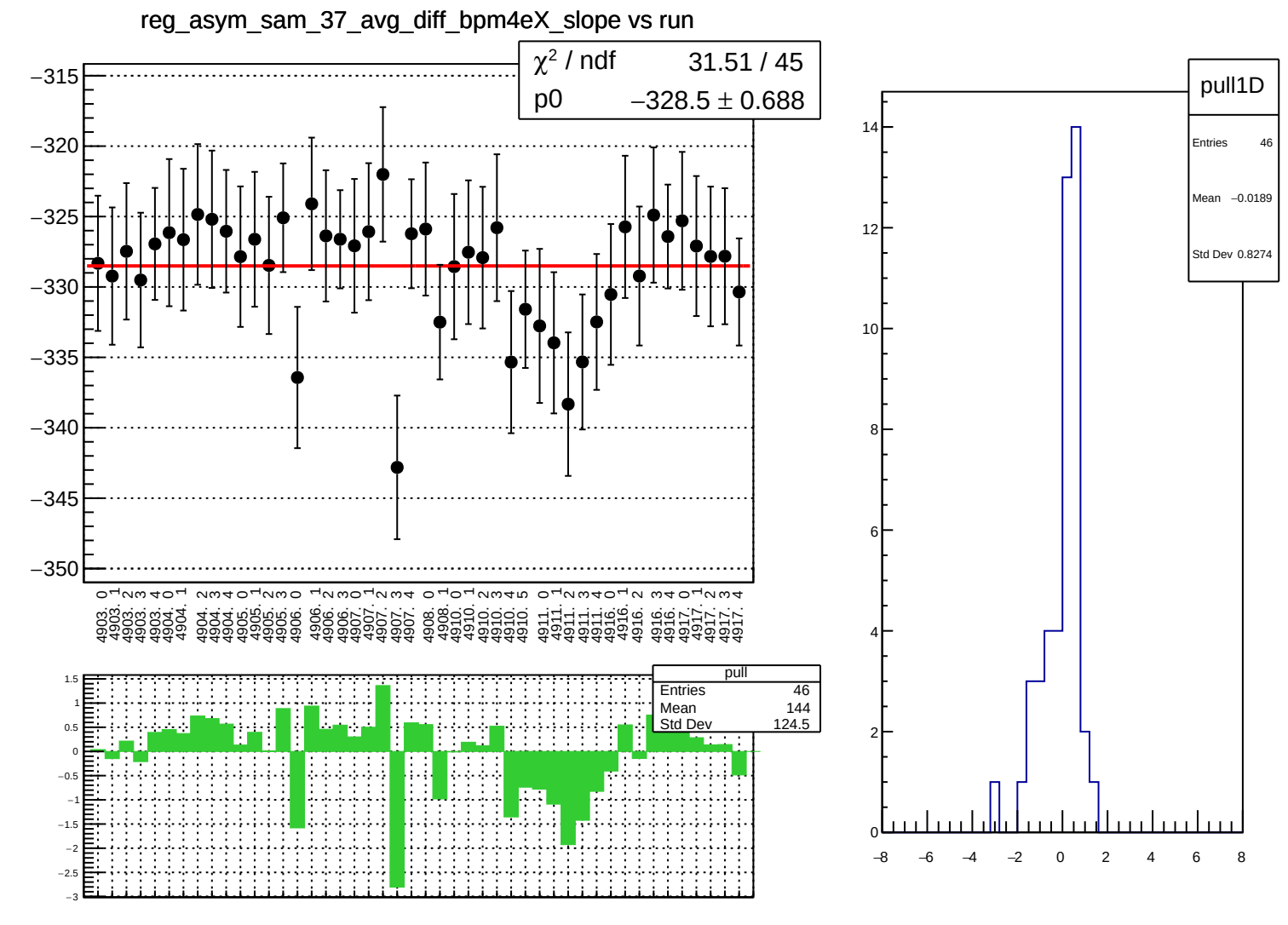

pull1D
Entries 46
Mean 0.0301
Std Dev 1.743

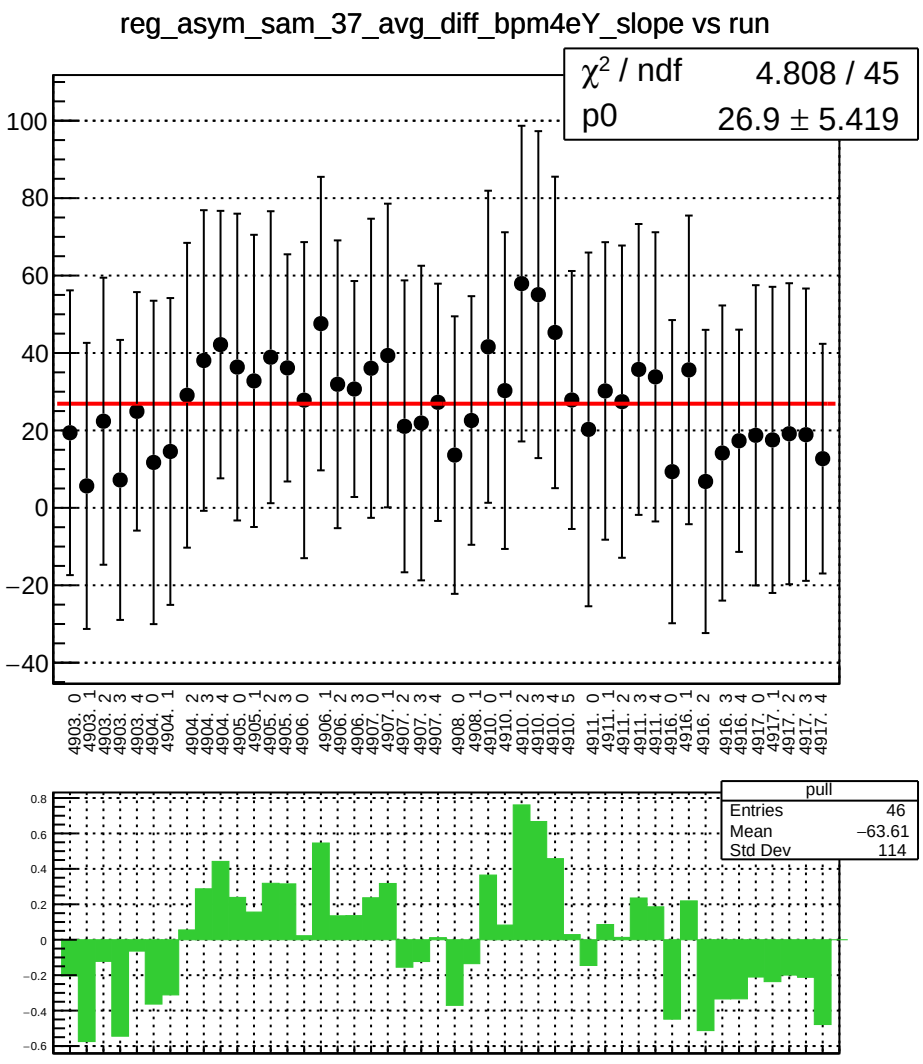

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 74.46 / 45
p0 −0.4694 ± 0.1935
pull
Entries 46
Mean 523.9
Std Dev 501.2

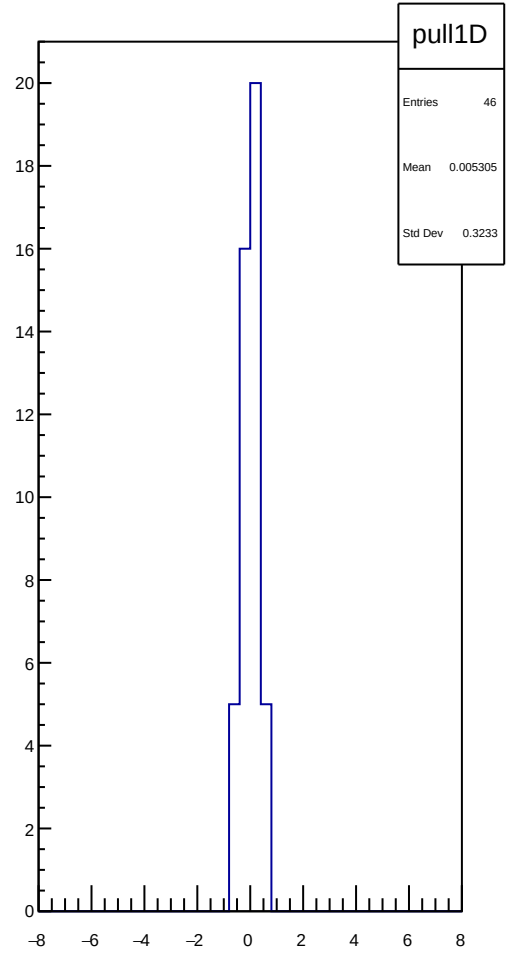

pull1D
Entries 46
Mean 0.01464
Std Dev 1.272

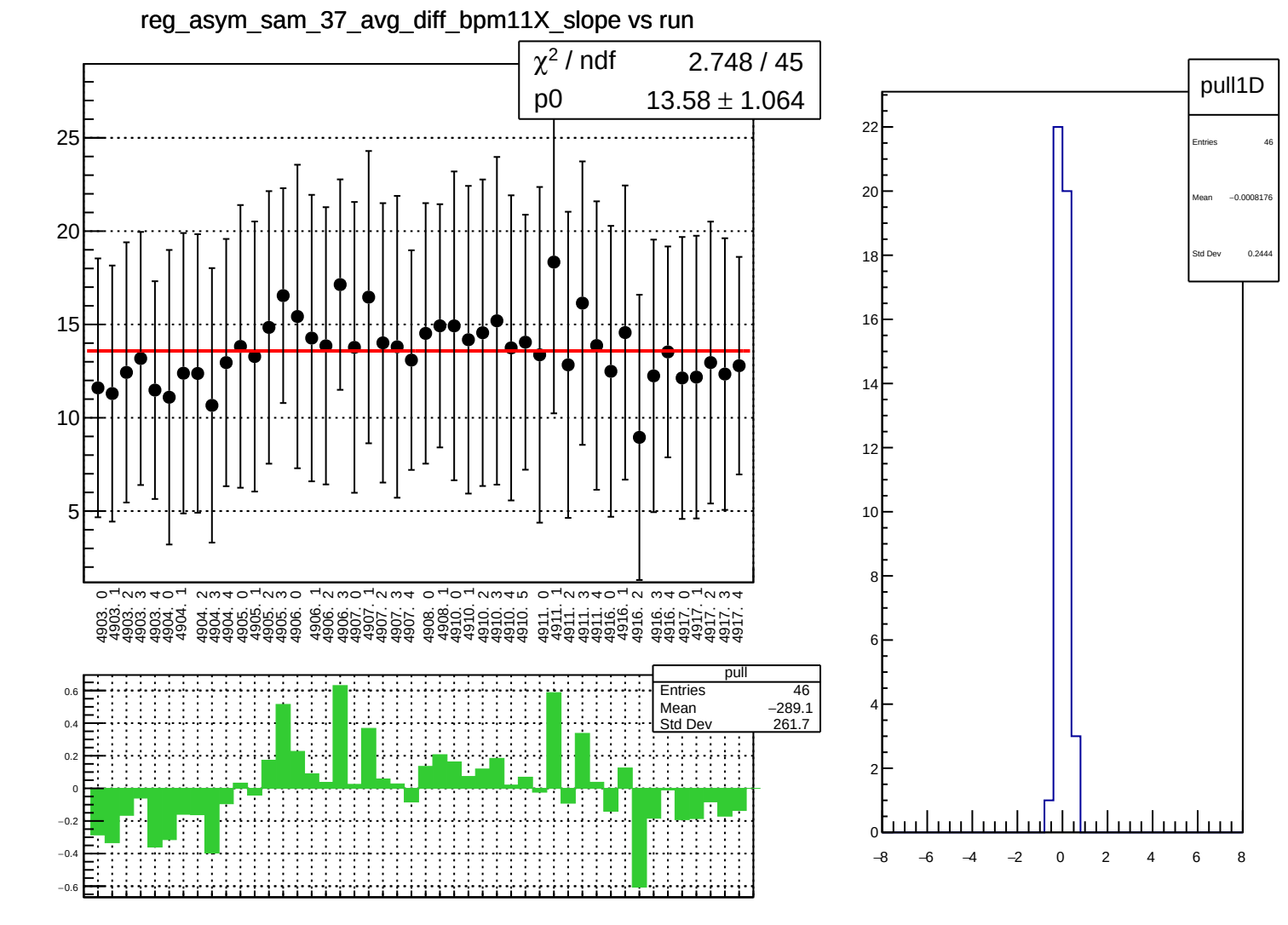

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.83 / 45
p0 215 ± 3.376
pull
Entries 46
Mean −132.3
Std Dev 129.9
pull1D
Entries 46
Mean −0.008322
Std Dev 0.5482

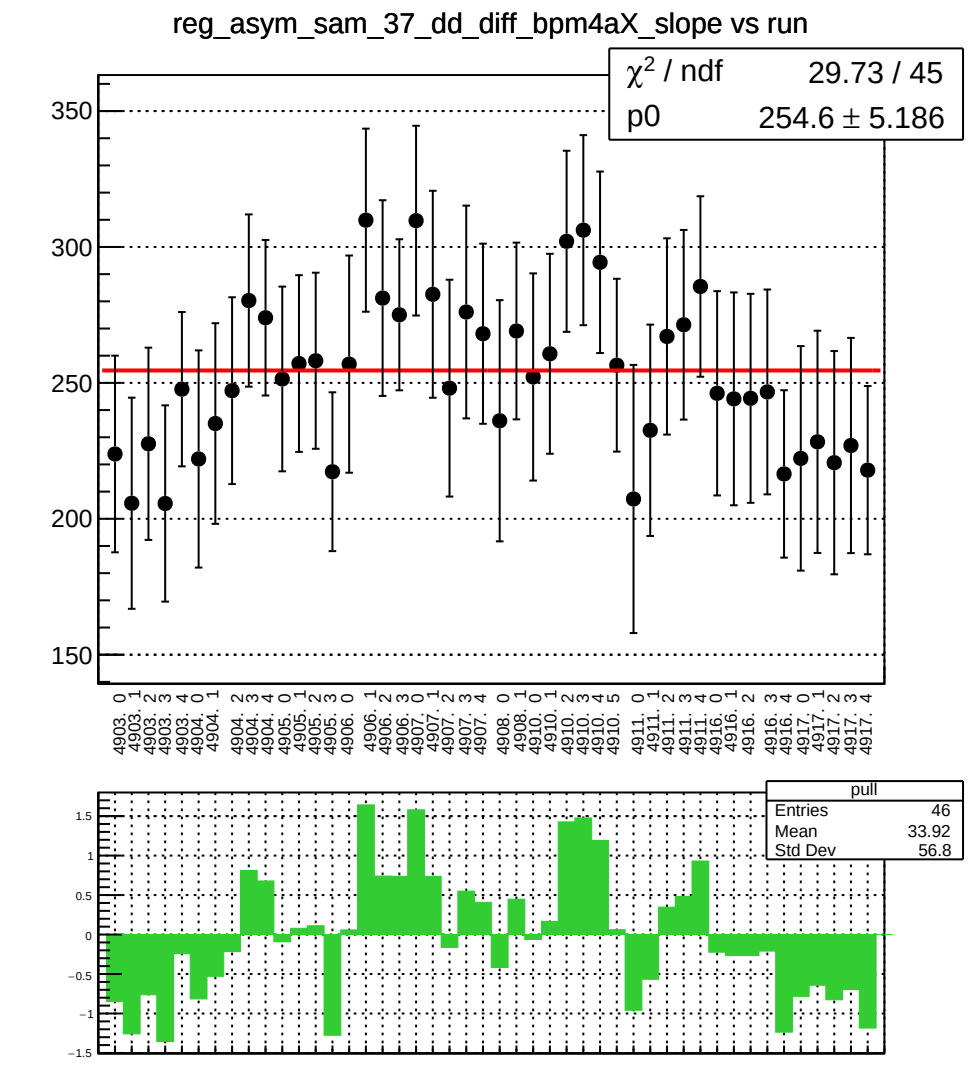

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.322 / 45
p0 −92.82 ± 4.698
−40
−60
−80
−100
−120
−140
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 171.4
Std Dev 112.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean 0.001994
Std Dev 0.2247
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

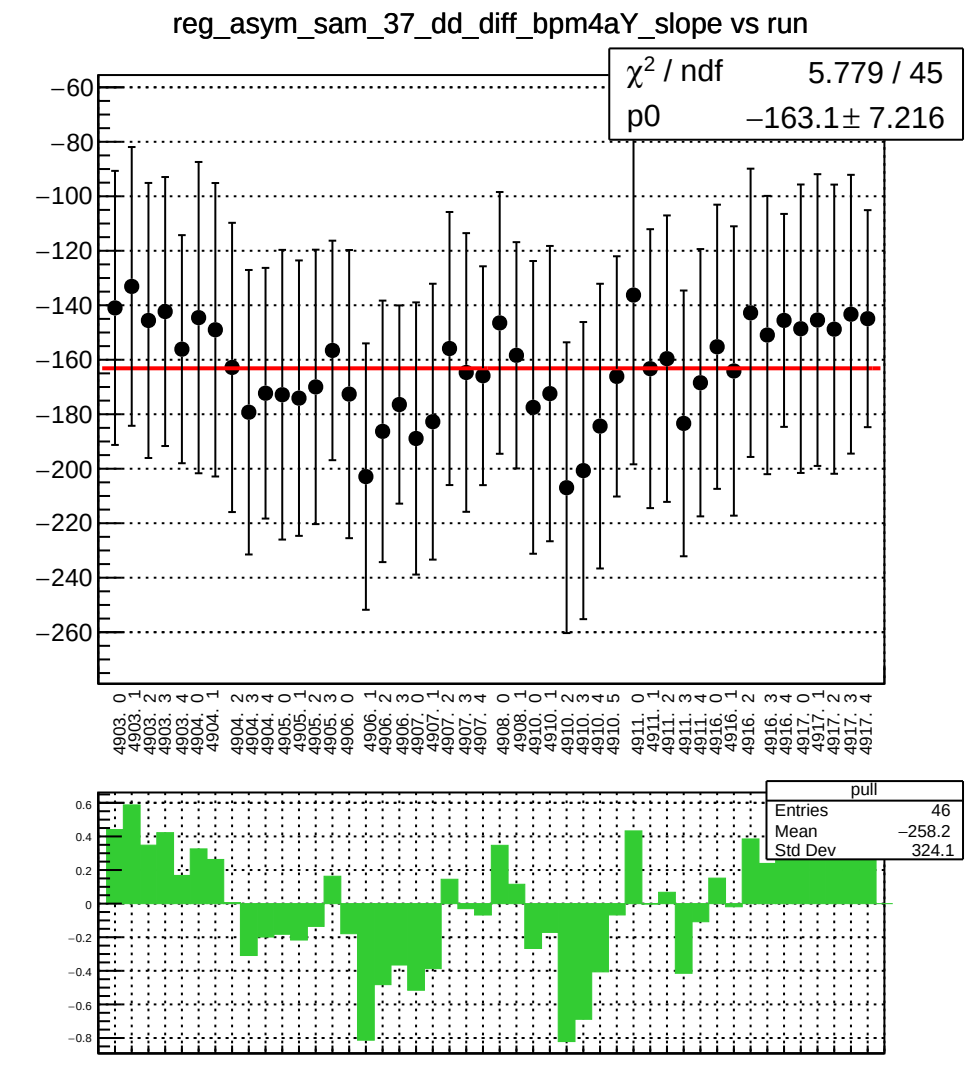

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.51 / 45
p0 −328.5 ± 0.688
pull
Entries 46
Mean 144
Std Dev 124.5
pull1D
Entries 46
Mean −0.0189
Std Dev 0.8274

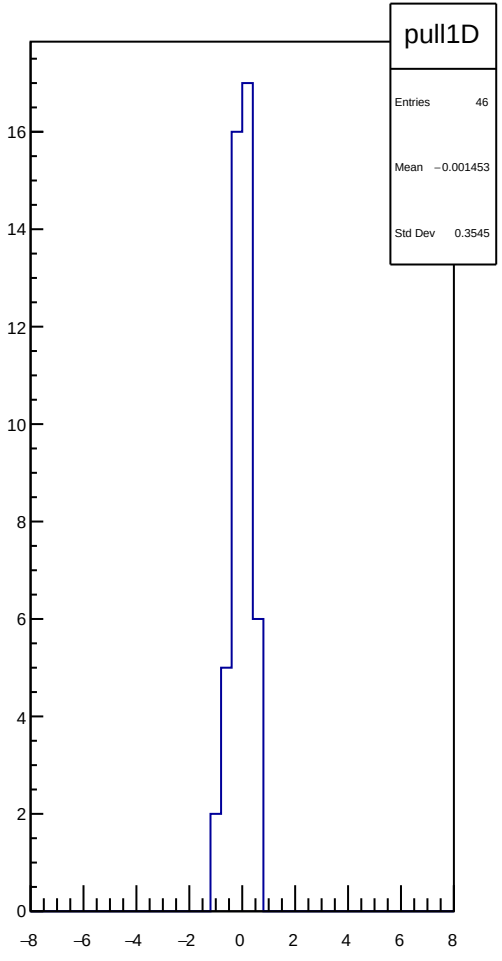

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.808 / 45
p0 26.9 ± 5.419
pull
Entries 46
Mean −63.61
Std Dev 114

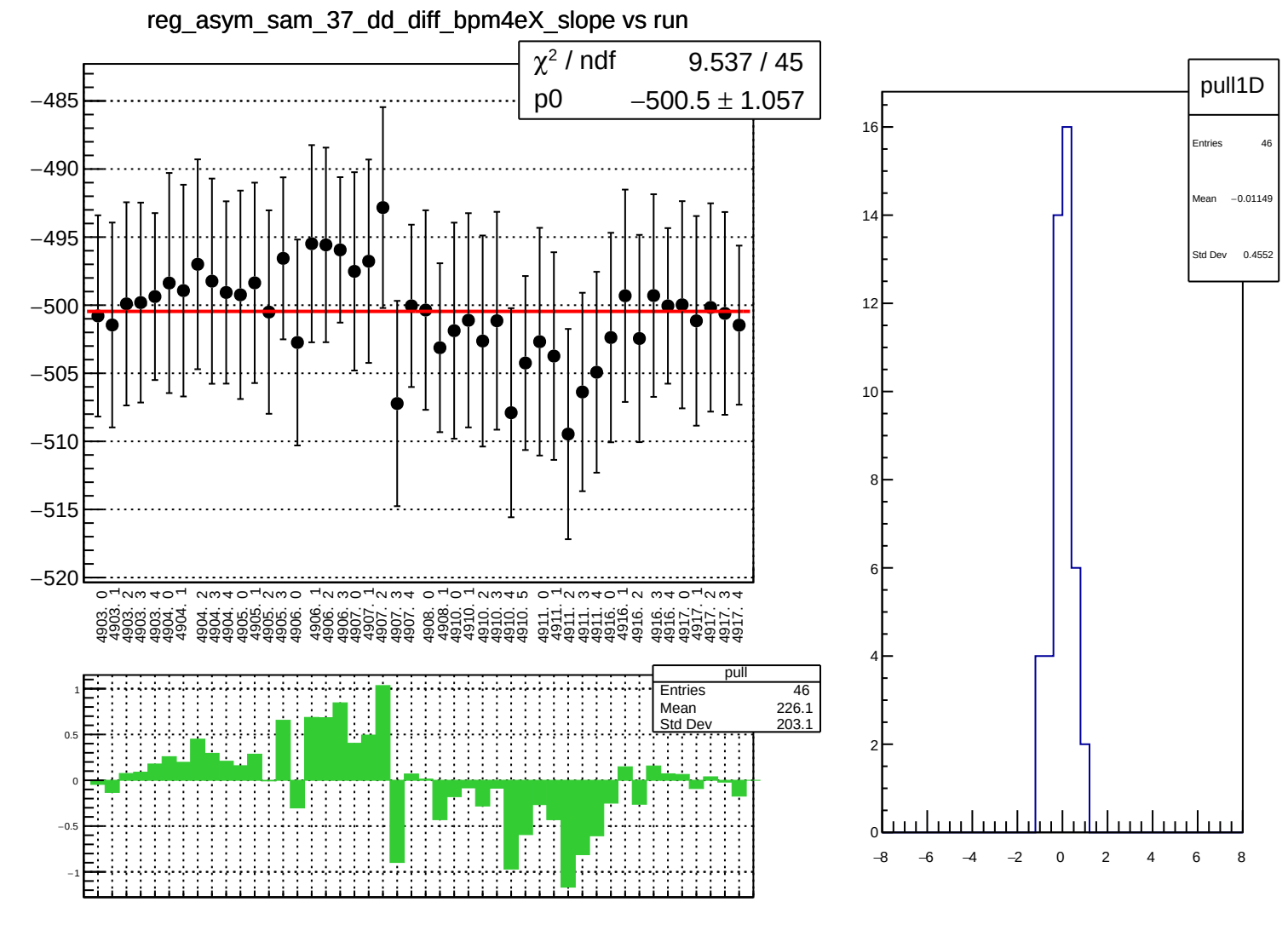

pull1D
Entries 46
Mean 0.005305
Std Dev 0.3233

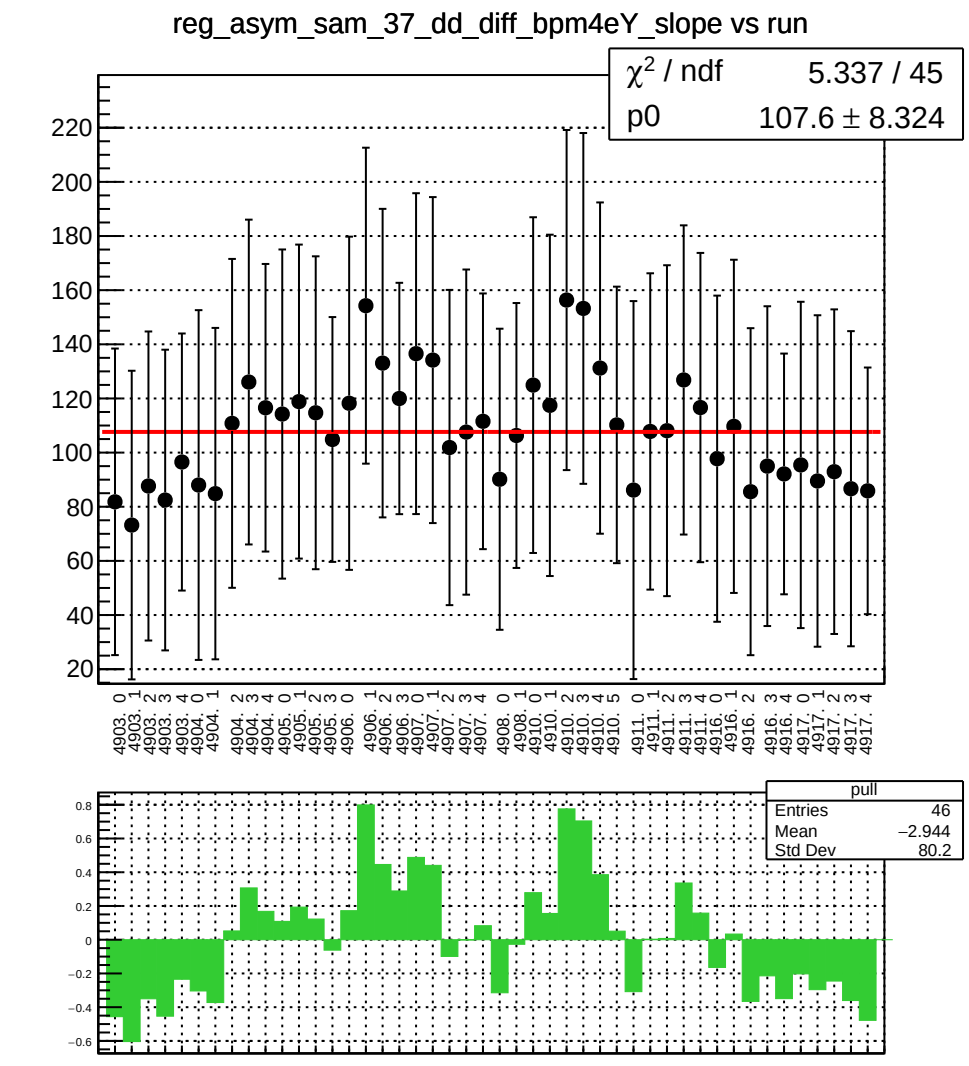

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 2.748 / 45
p0 13.58 ± 1.064
pull
Entries 46
Mean −289.1
Std Dev 261.7
pull1D
Entries 46
Mean −0.0008176
Std Dev 0.2444

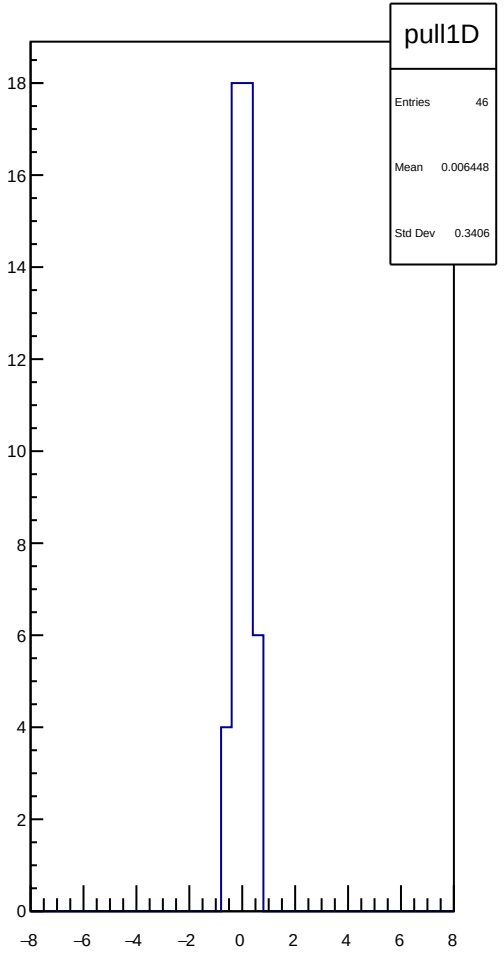

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.73 / 45
p0 254.6 ± 5.186
350
300
250
200
150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 33.92
Std Dev 56.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.02675
Std Dev 0.8034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

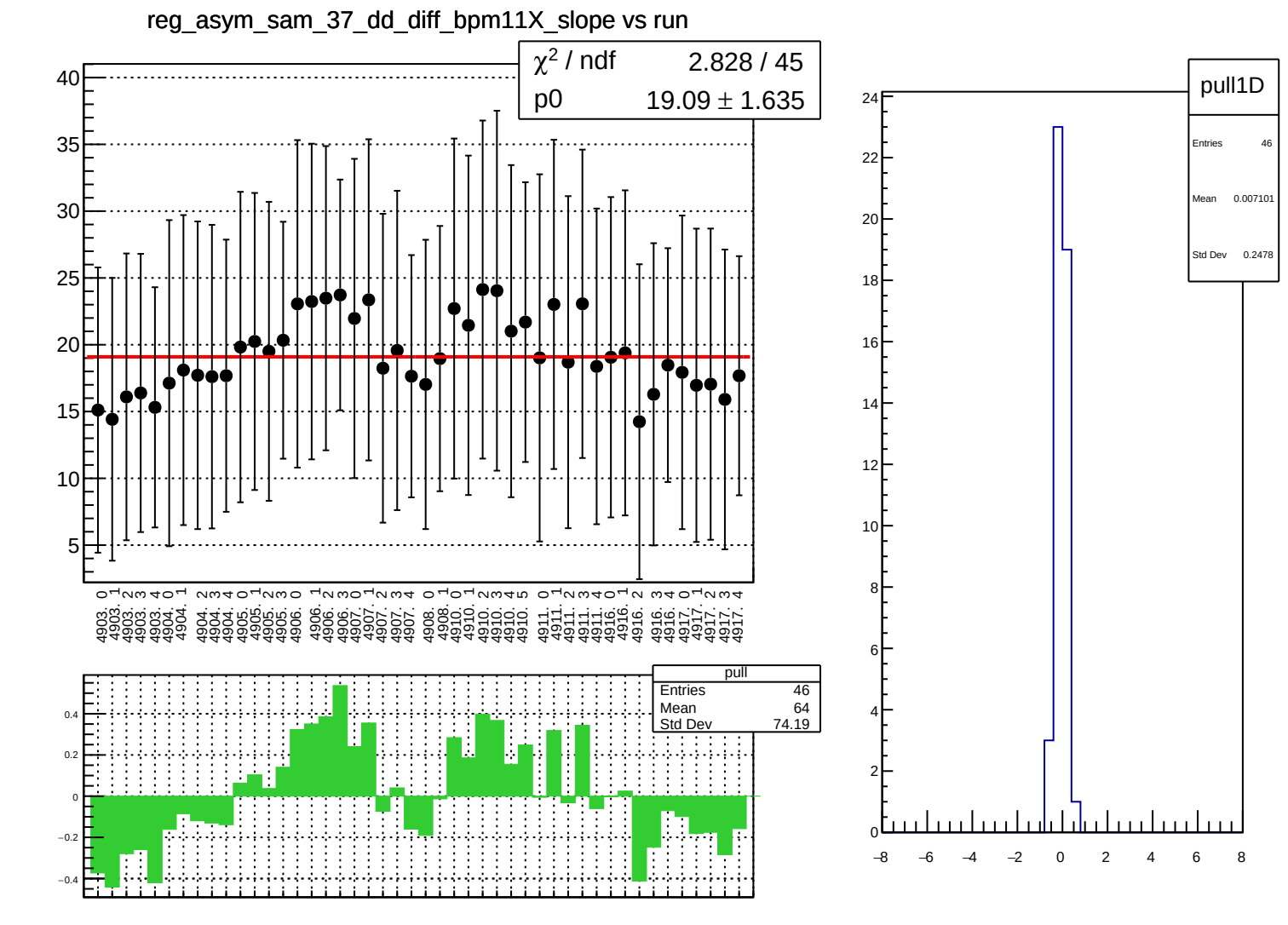

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.779 / 45
p0 −163.1± 7.216
pull
Entries 46
Mean −258.2
Std Dev 324.1

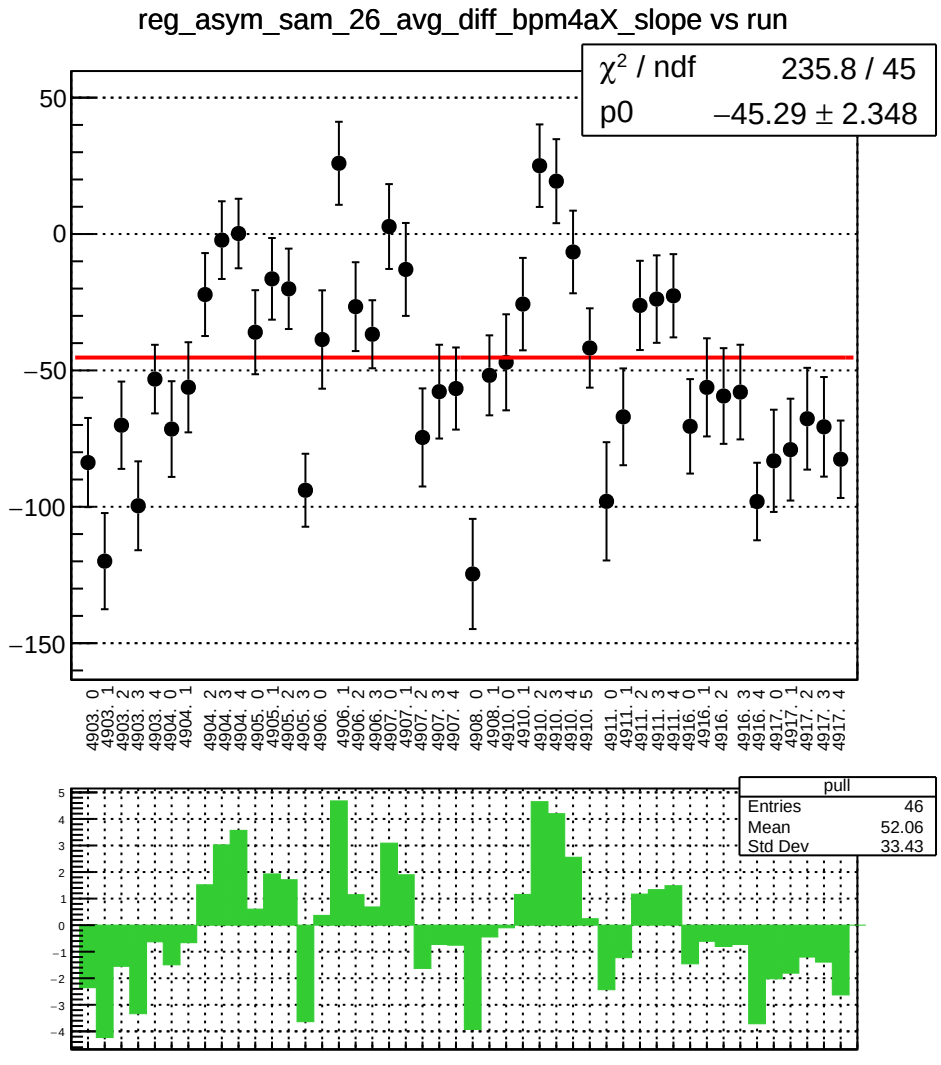

pull1D
Entries 46
Mean −0.001453
Std Dev 0.3545

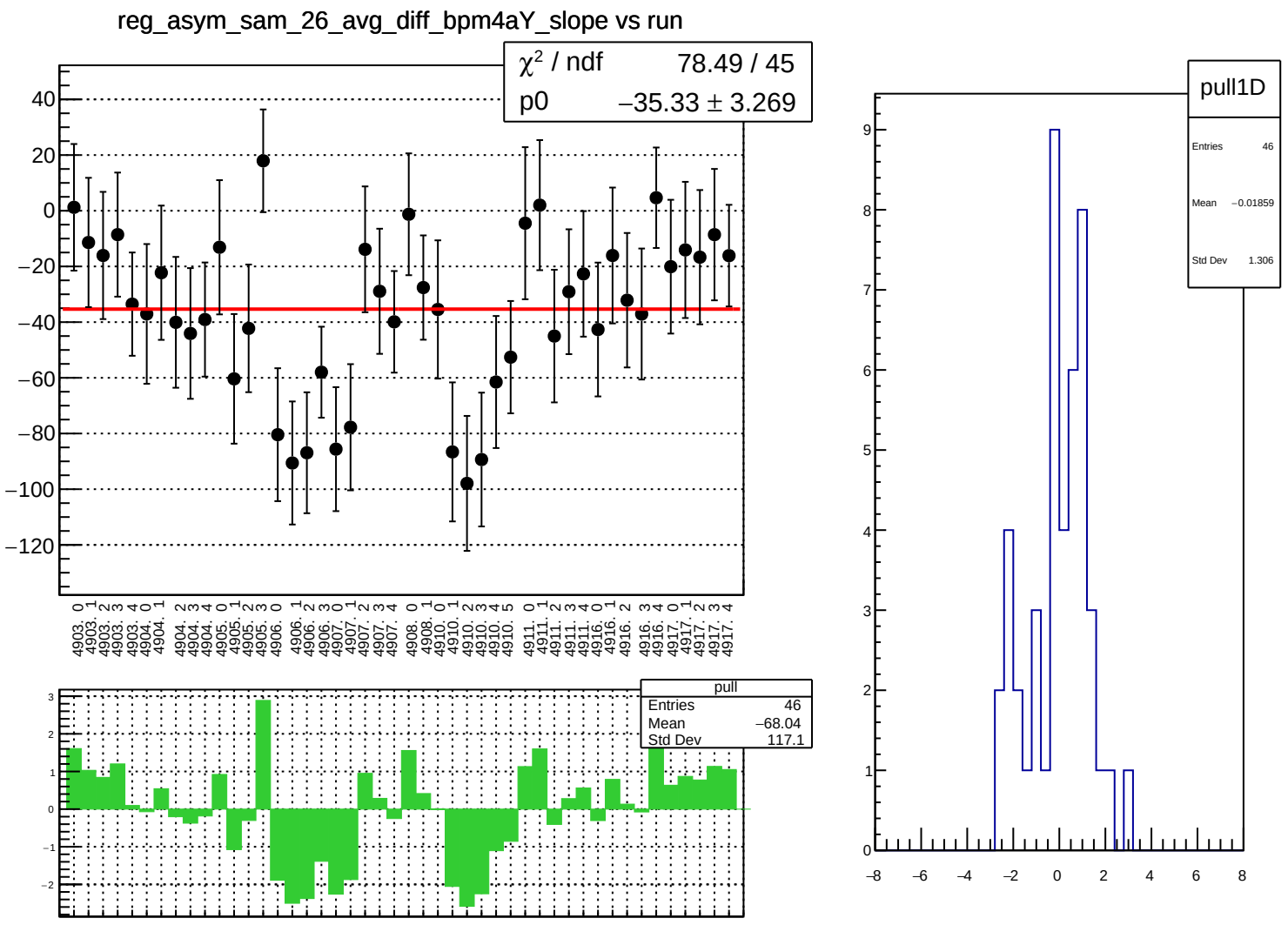

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.537 / 45
p0 −500.5 ± 1.057
−485
−490
−495
−500
−505
−510
−515
−520
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 226.1
Std Dev 203.1
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01149
Std Dev 0.4552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

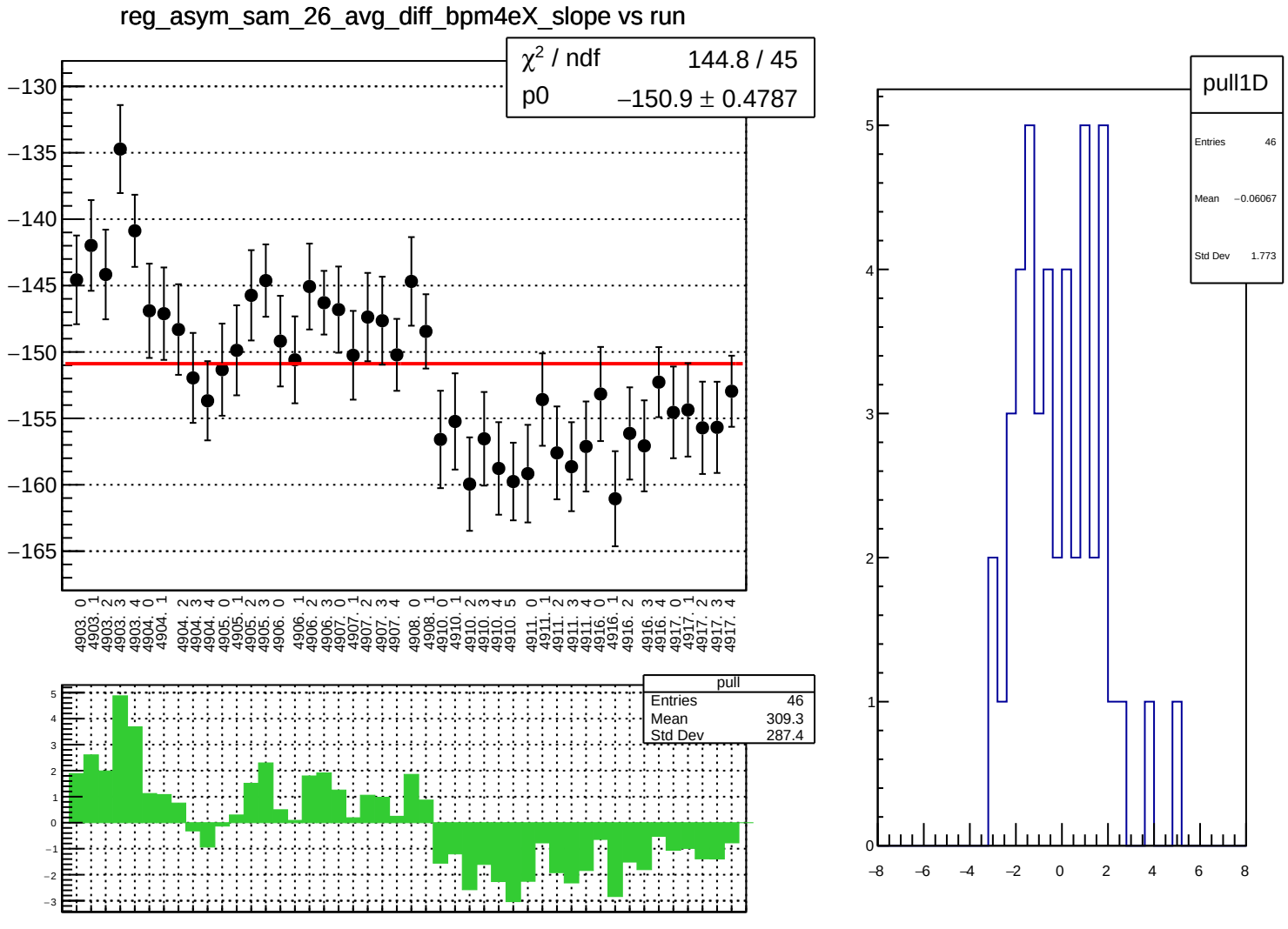

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.337 / 45
p0 107.6 ± 8.324
pull
Entries 46
Mean −2.944
Std Dev 80.2

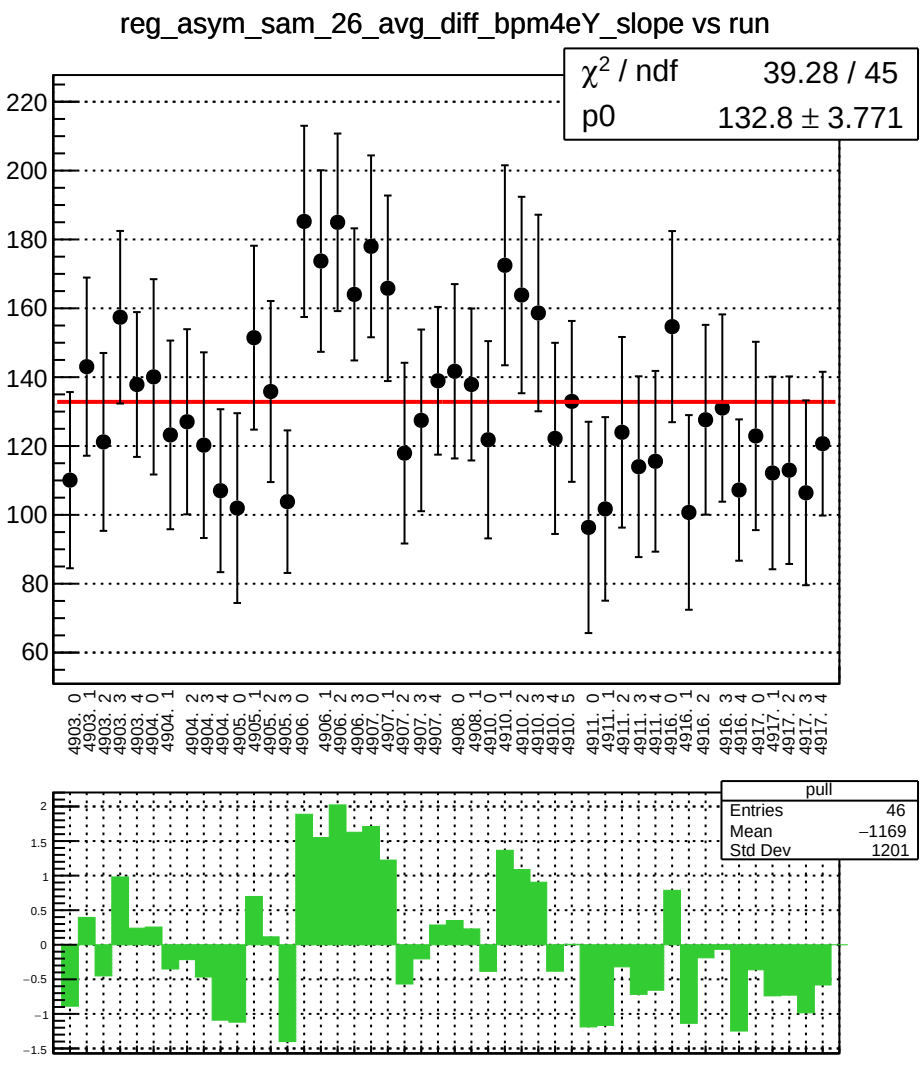

pull1D
Entries 46
Mean 0.006448
Std Dev 0.3406

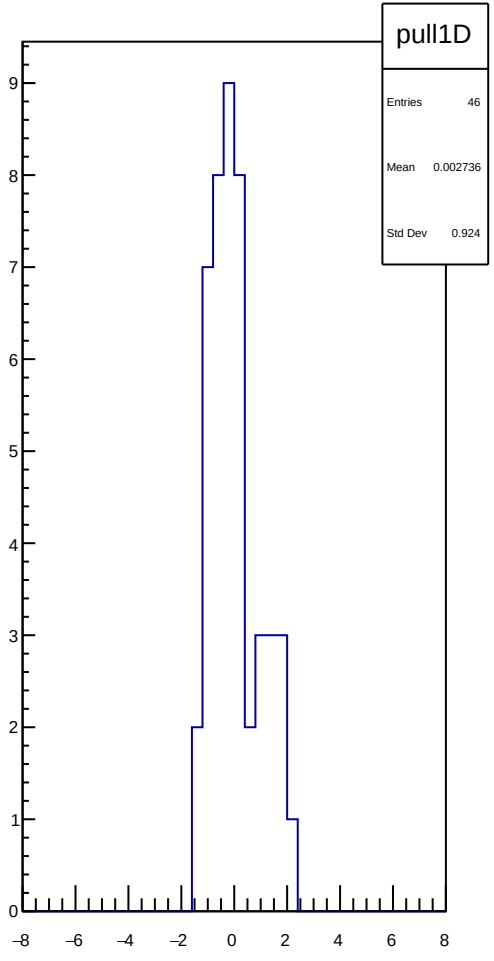

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 2.828 / 45
p0 19.09 ± 1.635
pull
Entries 46
Mean 64
Std Dev 74.19
pull1D
Entries 46
Mean 0.007101
Std Dev 0.2478

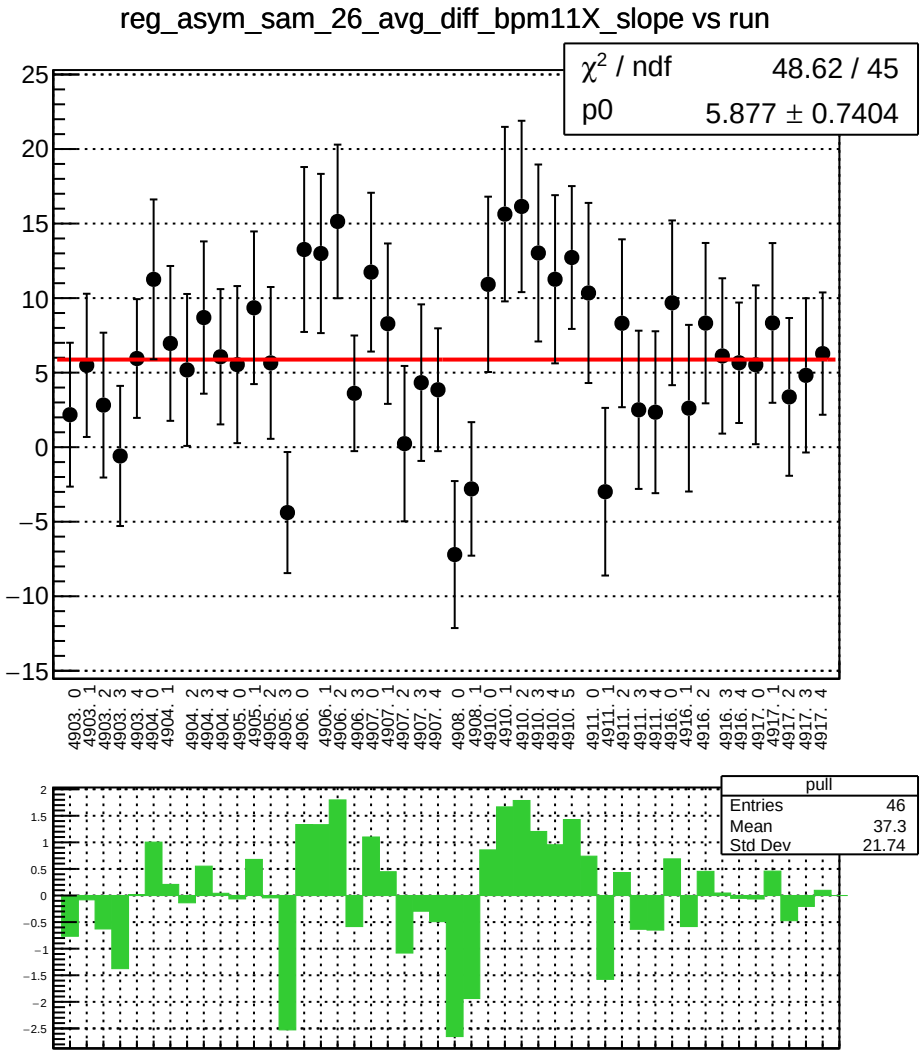

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 235.8 / 45
p0 −45.29 ± 2.348
50
0
−50
−100
−150
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 52.06
Std Dev 33.43
pull1D
Entries 46
Mean −0.0975
Std Dev 2.262

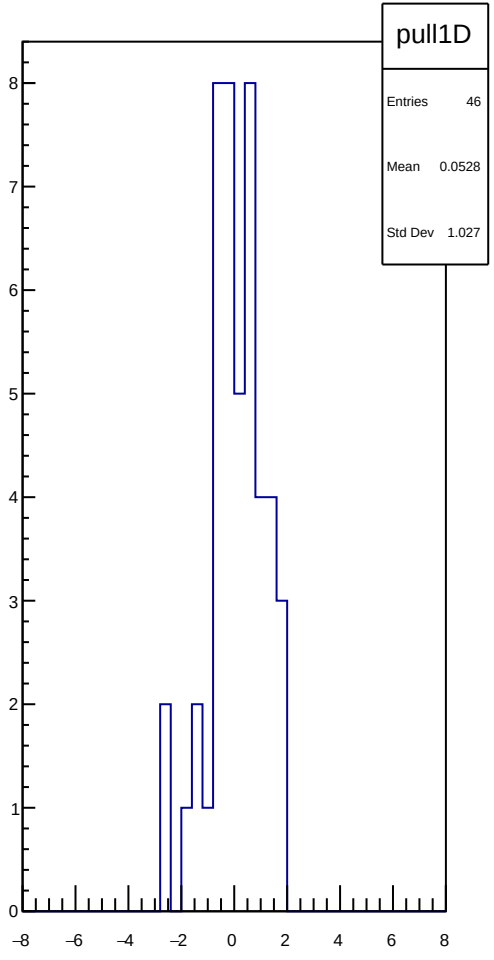

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.49 / 45
p0 −35.33 ± 3.269
pull
Entries 46
Mean −68.04
Std Dev 117.1
pull1D
Entries 46
Mean −0.01859
Std Dev 1.306

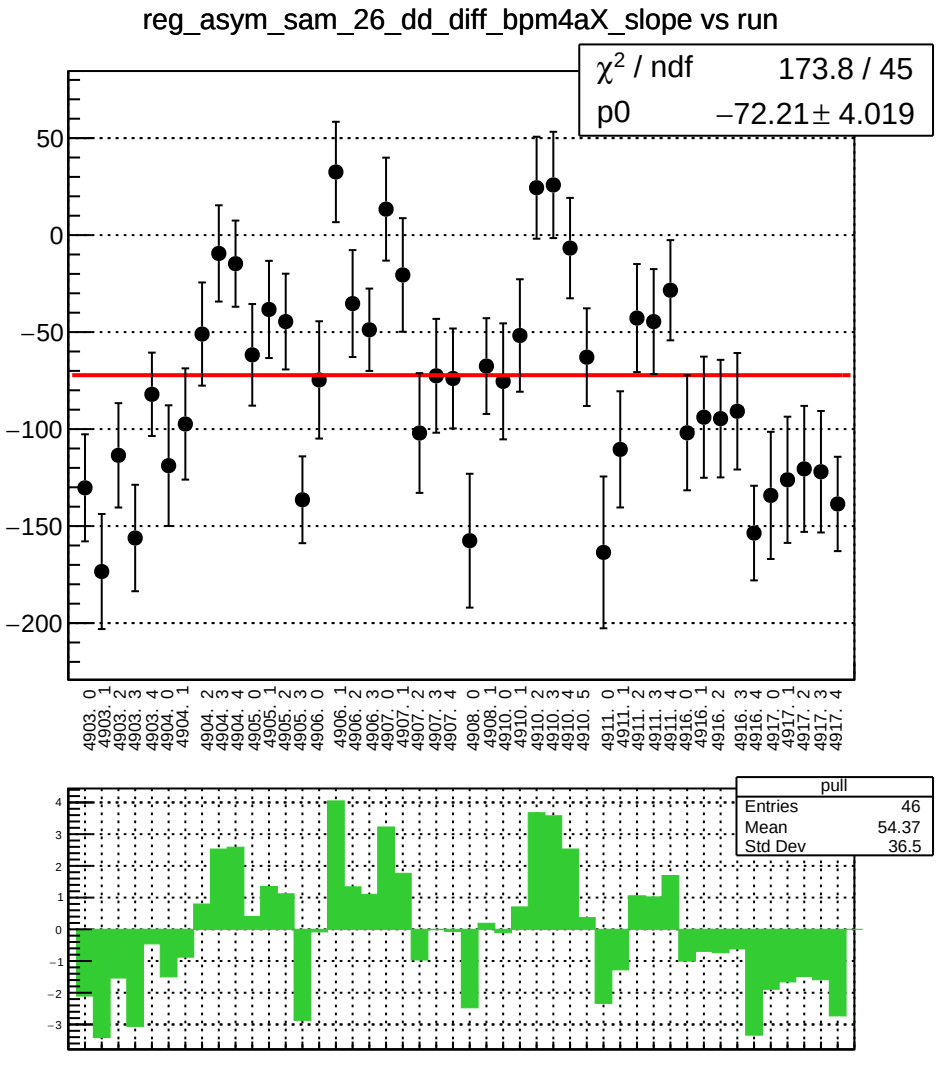

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 144.8 / 45
p0 −150.9 ± 0.4787
pull
Entries 46
Mean 309.3
Std Dev 287.4
pull1D
Entries 46
Mean −0.06067
Std Dev 1.773

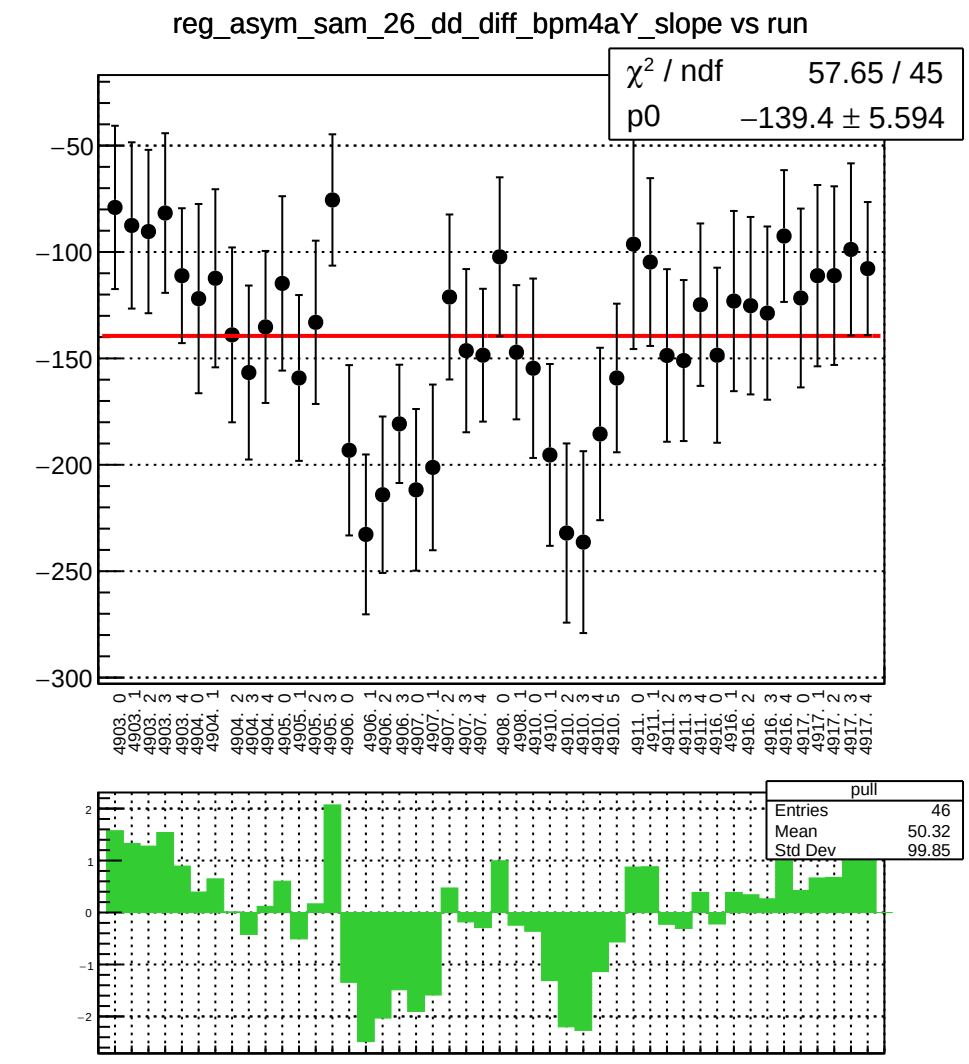

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 39.28 / 45
p0 132.8 ± 3.771
pull
Entries 46
Mean −1169
Std Dev 1201

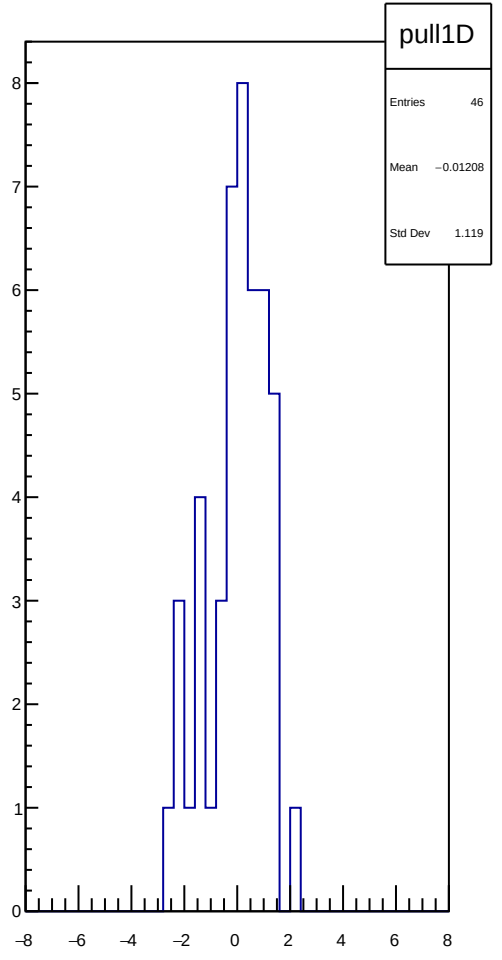

pull1D
Entries 46
Mean 0.002736
Std Dev 0.924

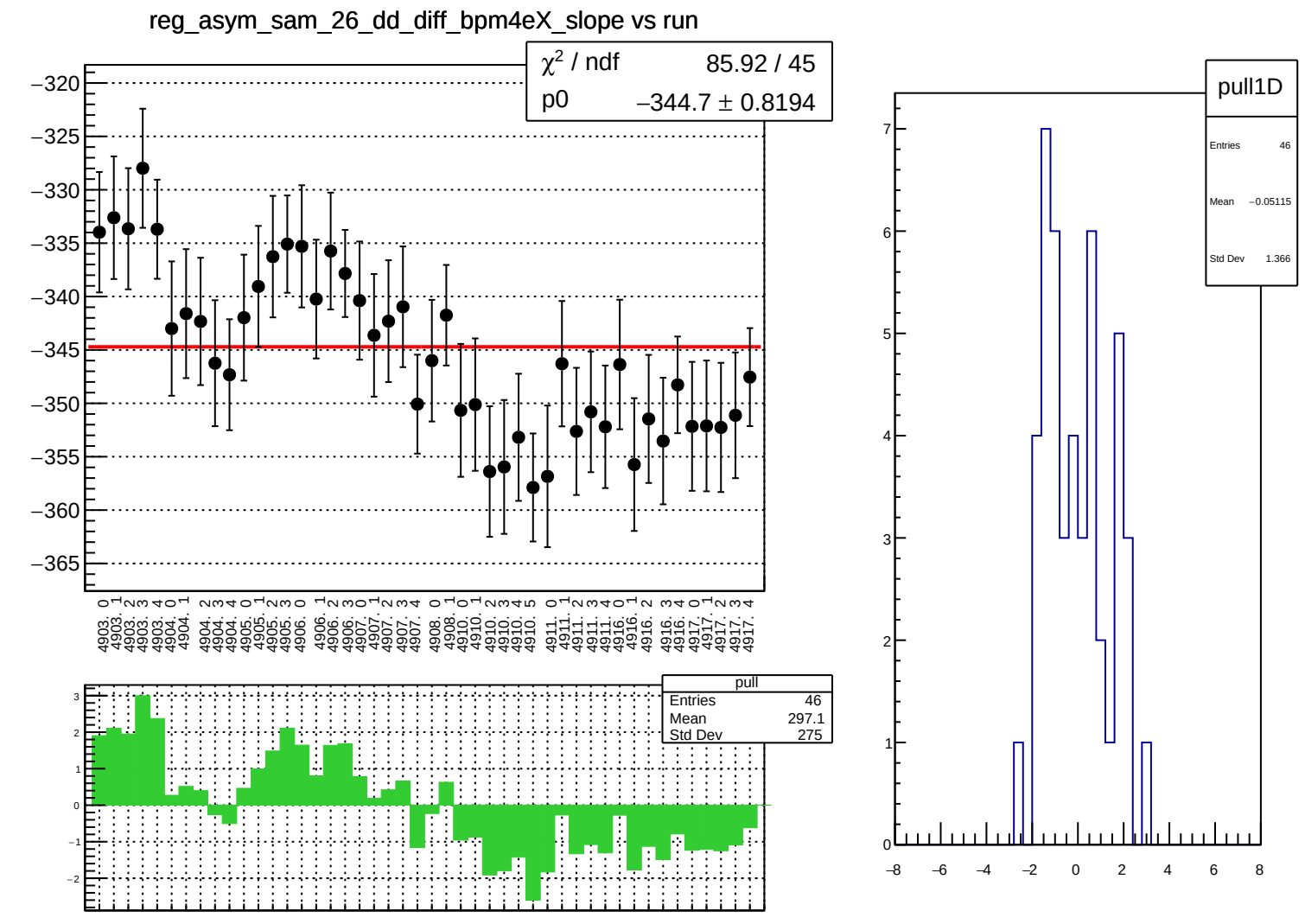

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 48.62 / 45
p0 5.877 ± 0.7404
pull
Entries 46
Mean 37.3
Std Dev 21.74

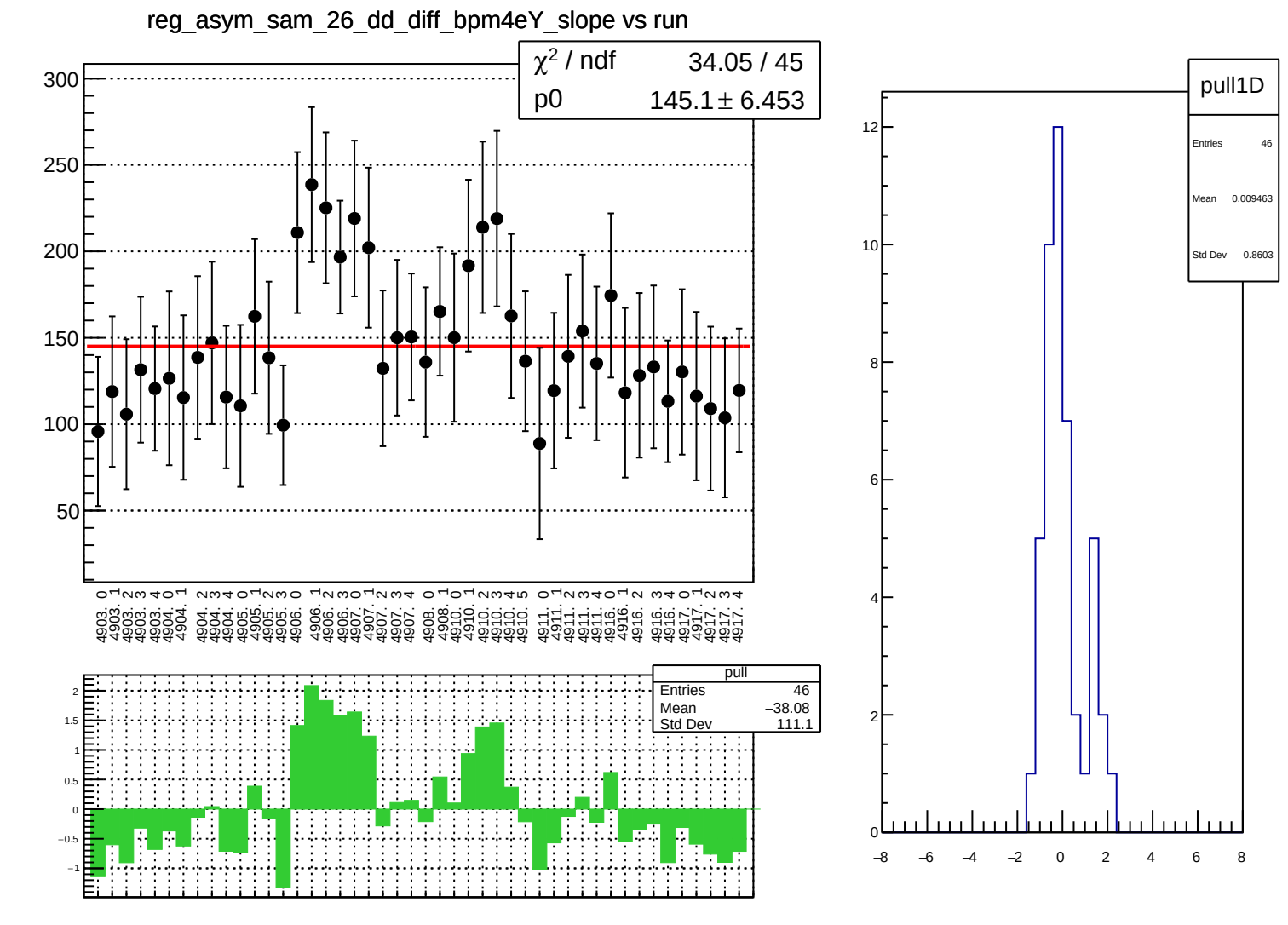

pull1D
Entries 46
Mean 0.0528
Std Dev 1.027

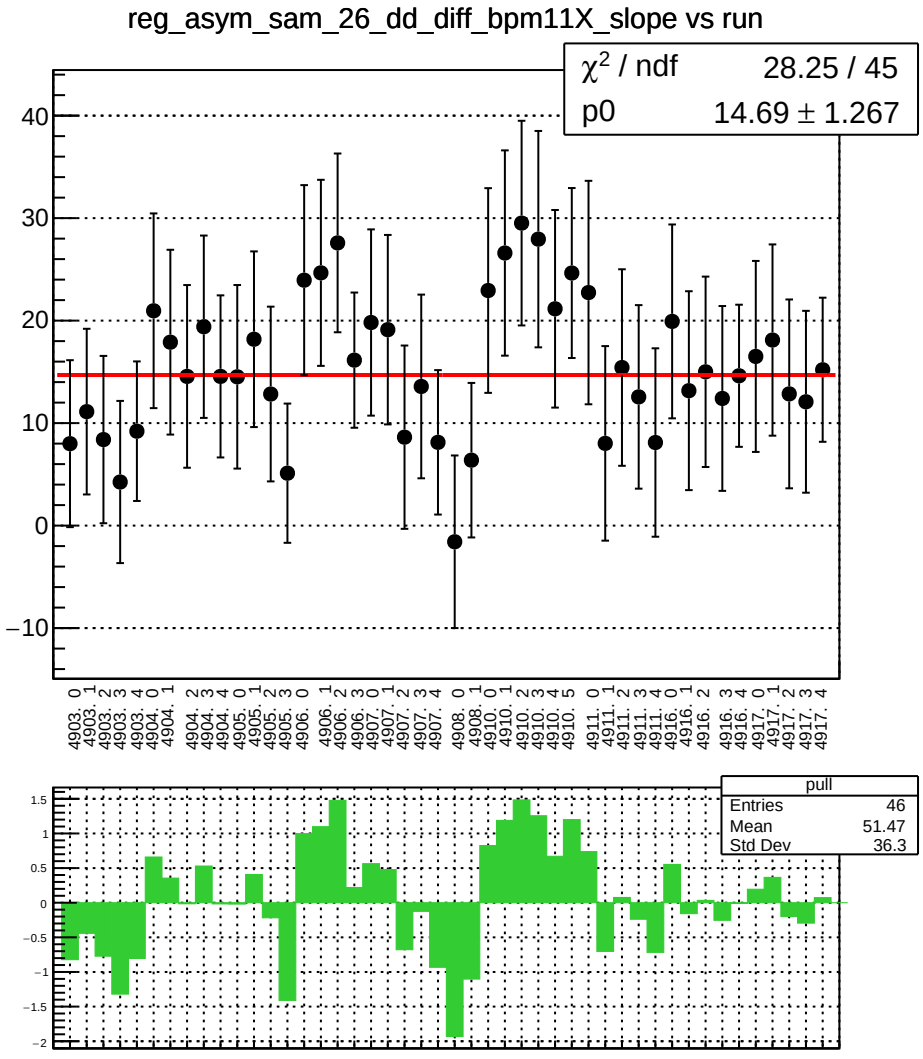

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 173.8 / 45
p0 −72.21 ± 4.019
50
0
−50
−100
−150
−200
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 54.37
Std Dev 36.5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.08241
Std Dev 1.942
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

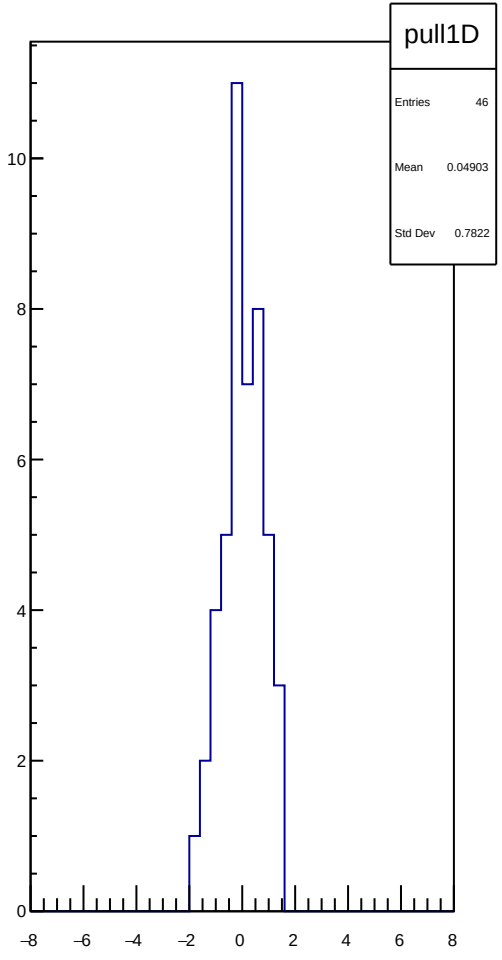

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.65 / 45
p0 −139.4 ± 5.594
pull
Entries 46
Mean 50.32
Std Dev 99.85

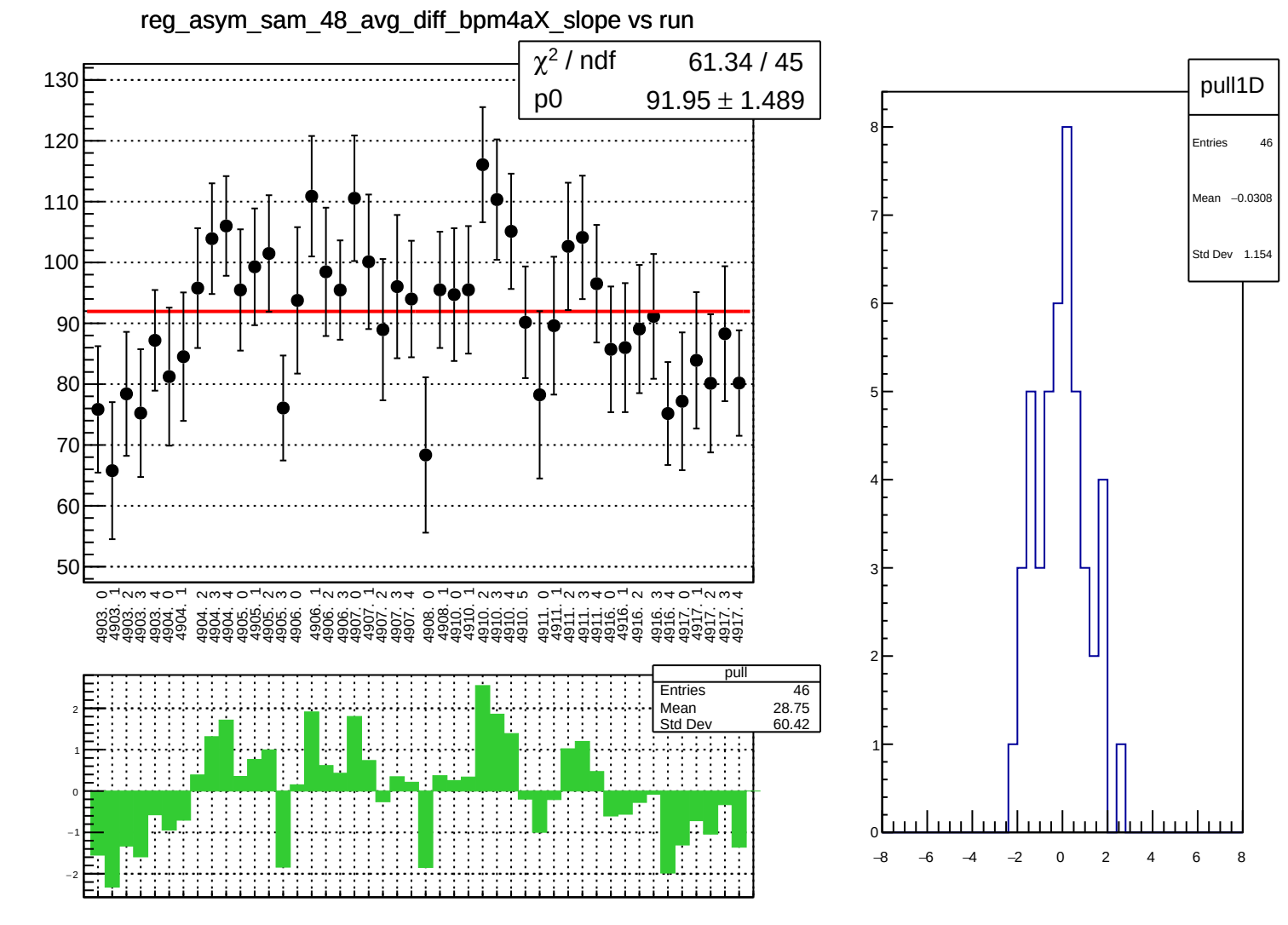

pull1D
Entries 46
Mean −0.01208
Std Dev 1.119

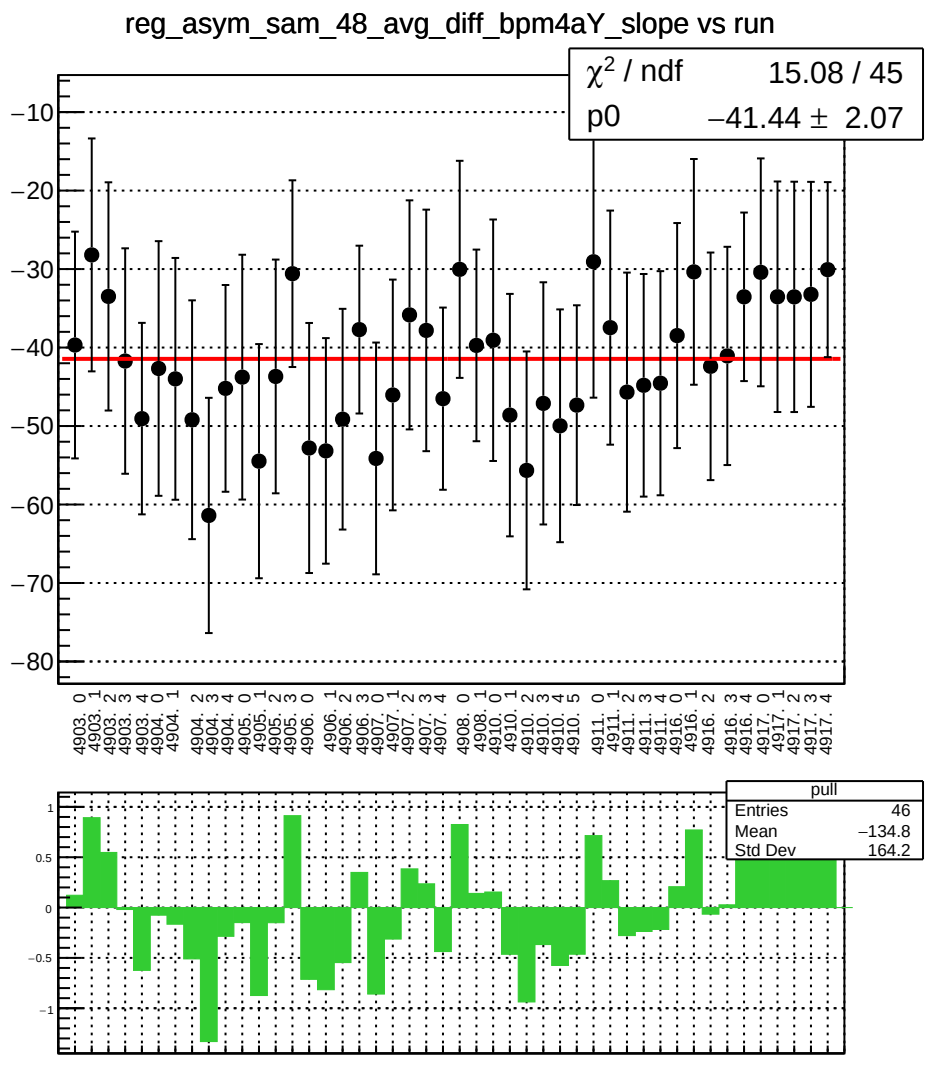

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.92 / 45
p0 −344.7 ± 0.8194
pull
Entries 46
Mean 297.1
Std Dev 275
pull1D
Entries 46
Mean −0.05115
Std Dev 1.366

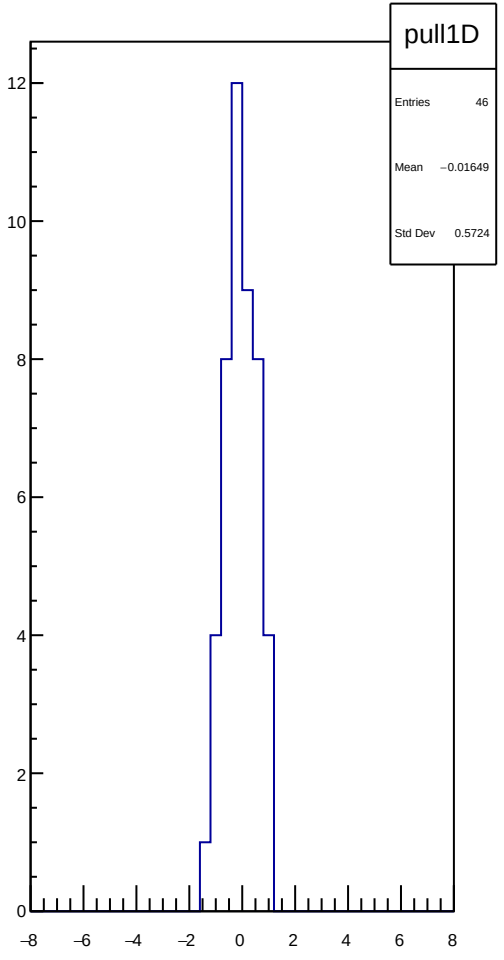

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.05 / 45
p0 145.1 ± 6.453
300
250
200
150
100
50
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −38.08
Std Dev 111.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.009463
Std Dev 0.8603
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

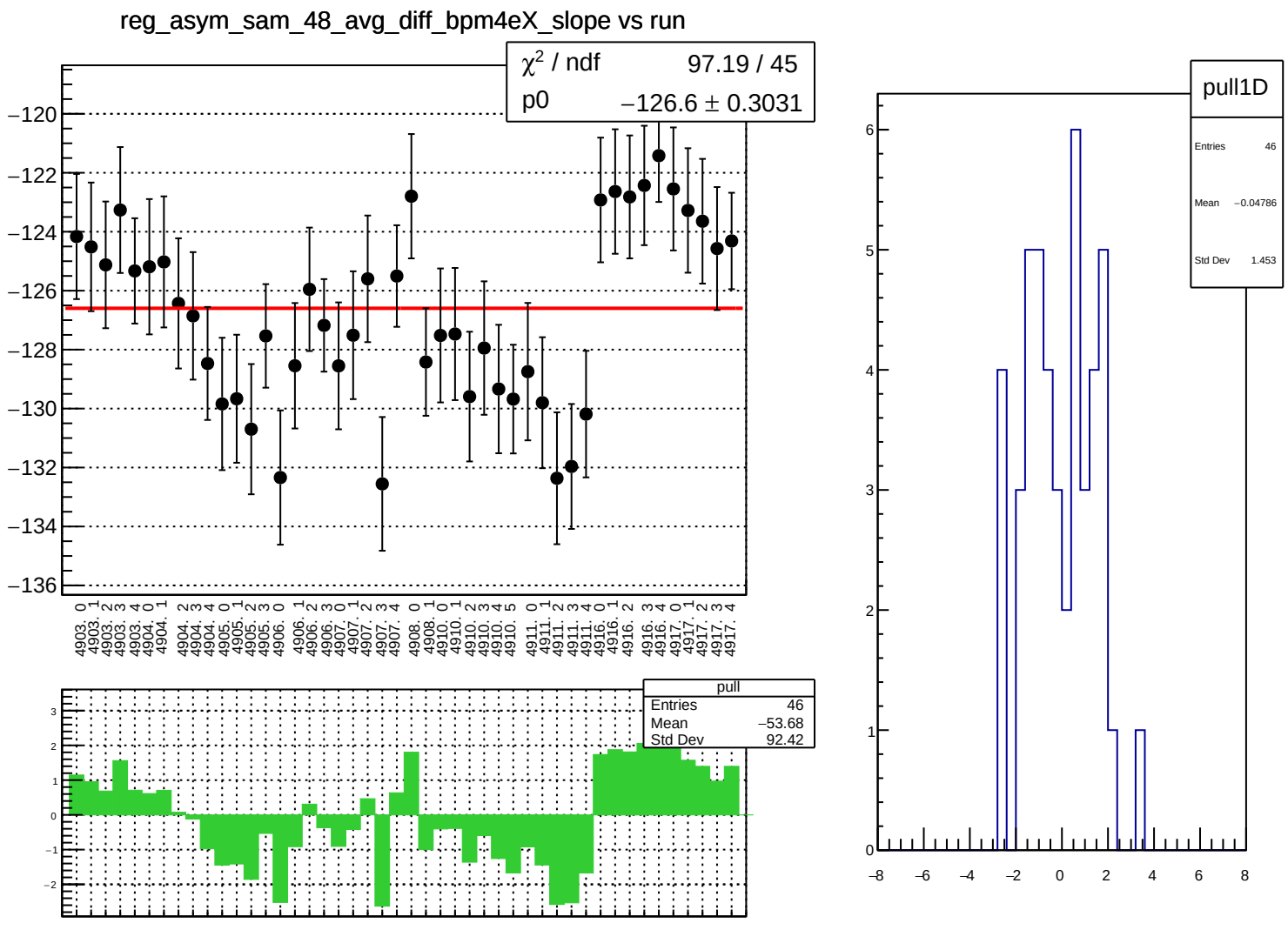

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 28.25 / 45
p0 14.69 ± 1.267
pull
Entries 46
Mean 51.47
Std Dev 36.3

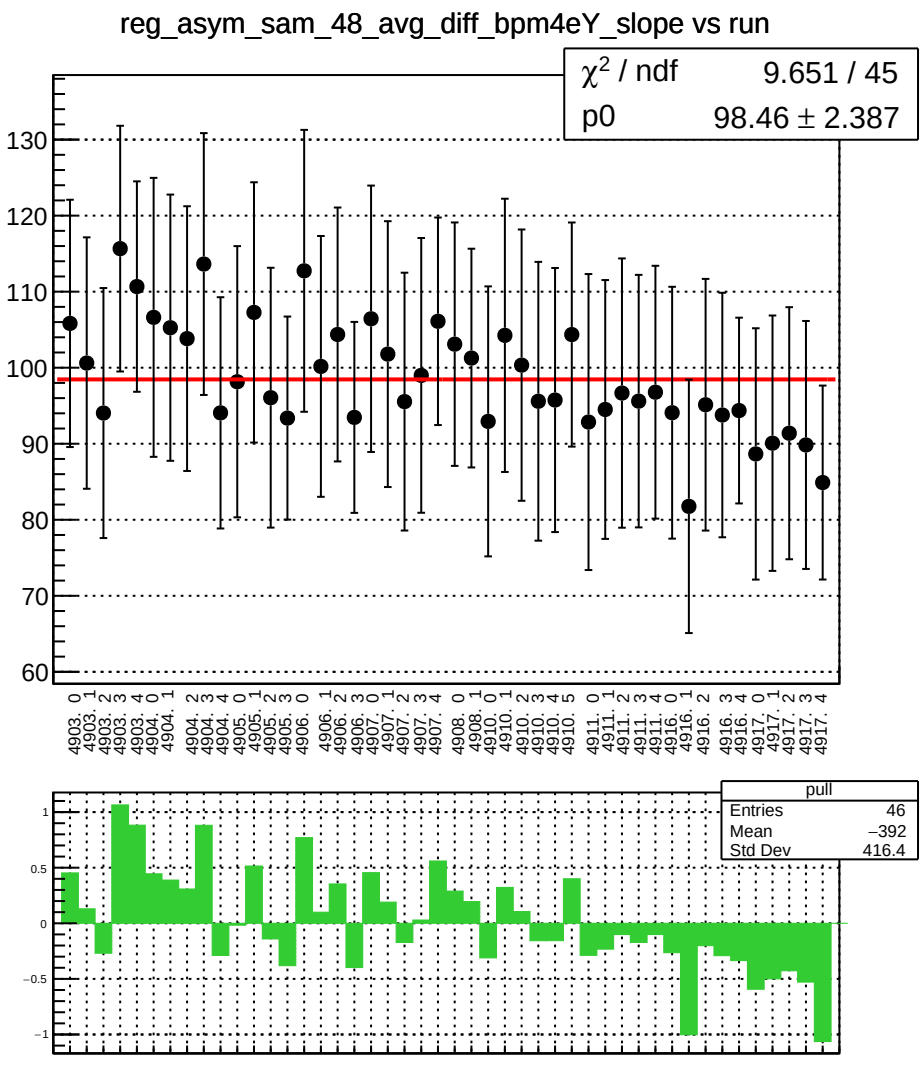

pull1D
Entries 46
Mean 0.04903
Std Dev 0.7822

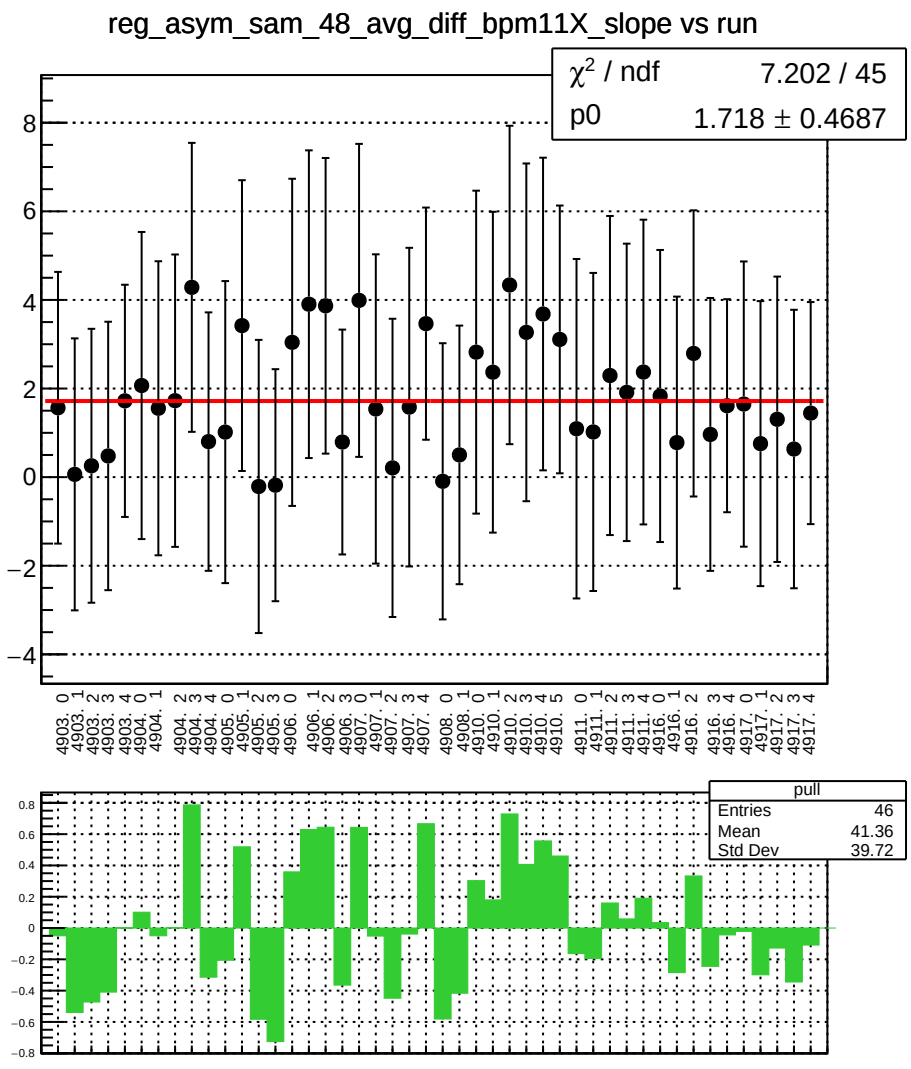

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 61.34 / 45
p0 91.95 ± 1.489
pull
Entries 46
Mean 28.75
Std Dev 60.42
pull1D
Entries 46
Mean −0.0308
Std Dev 1.154

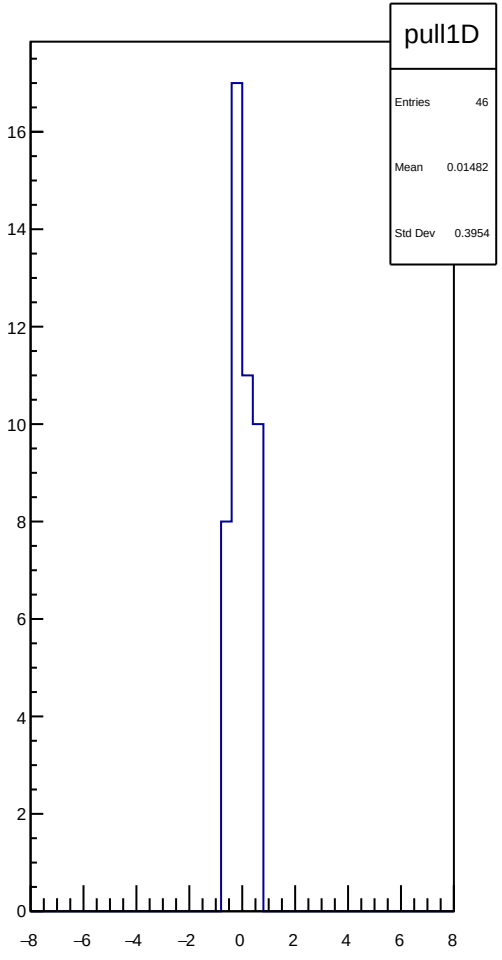

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.08 / 45
p0 −41.44 ± 2.07
pull
Entries 46
Mean −134.8
Std Dev 164.2

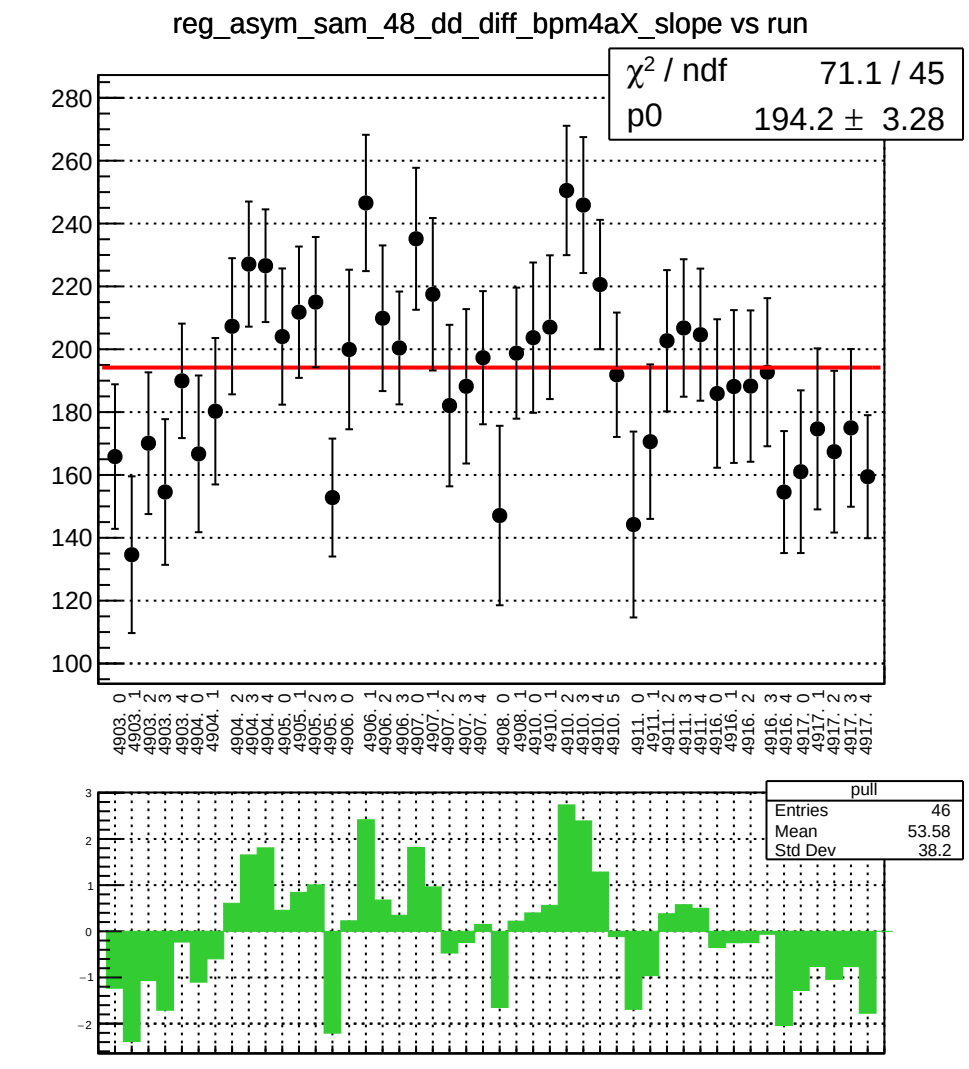

pull1D
Entries 46
Mean −0.01649
Std Dev 0.5724

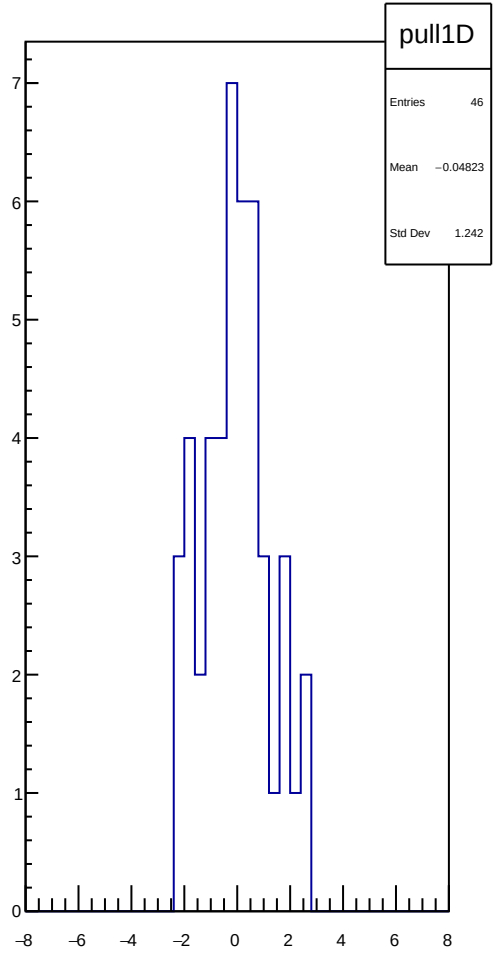

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.19 / 45
p0 −126.6 ± 0.3031
pull
Entries 46
Mean −53.68
Std Dev 92.42
pull1D
Entries 46
Mean −0.04786
Std Dev 1.453

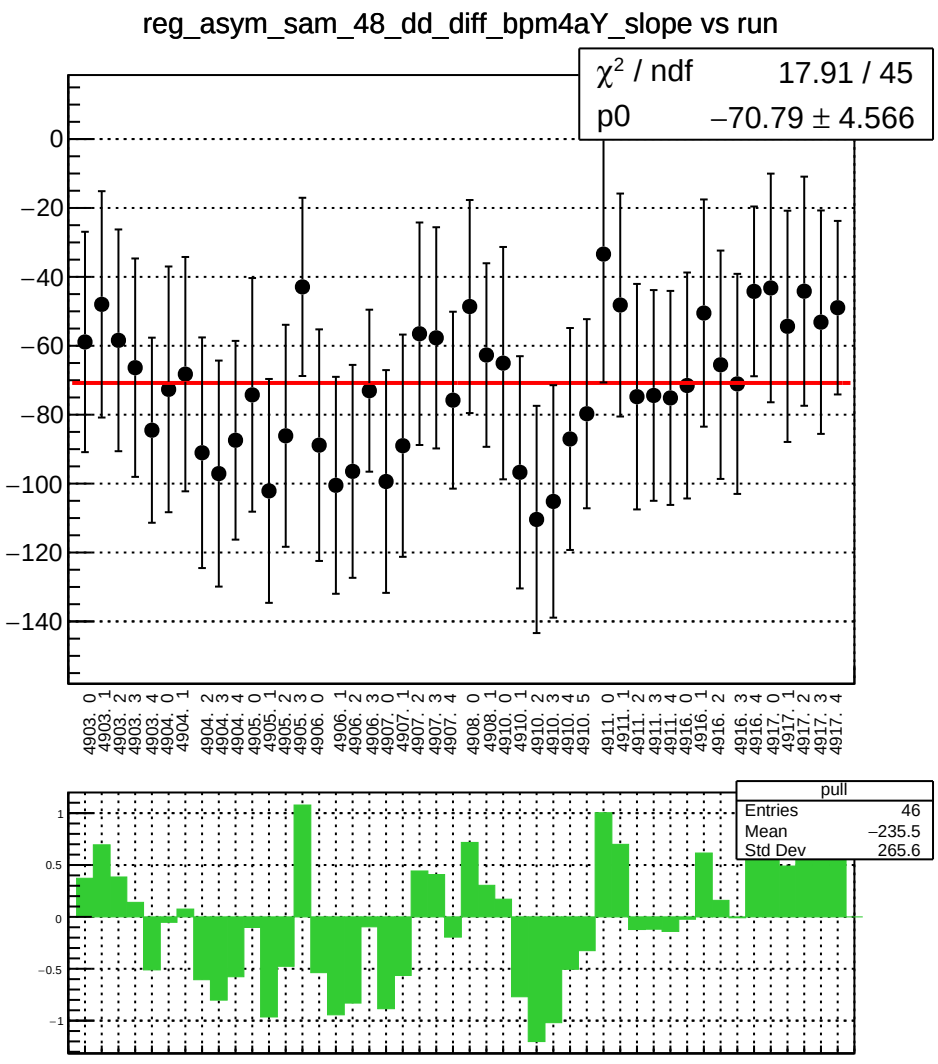

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.651 / 45
p0 98.46 ± 2.387
130
120
110
100
90
80
70
60
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −392
Std Dev 416.4
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.009756
Std Dev 0.4579
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

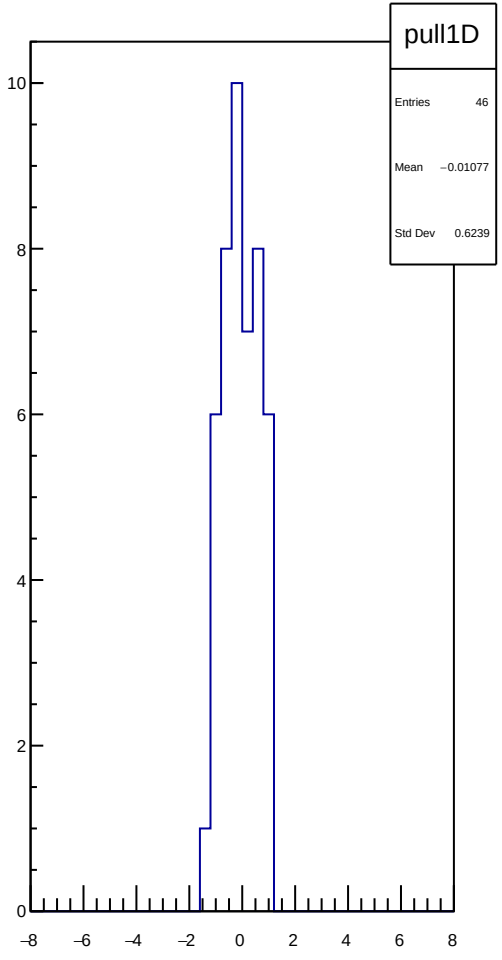

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 7.202 / 45
p0 1.718 ± 0.4687
pull
Entries 46
Mean 41.36
Std Dev 39.72

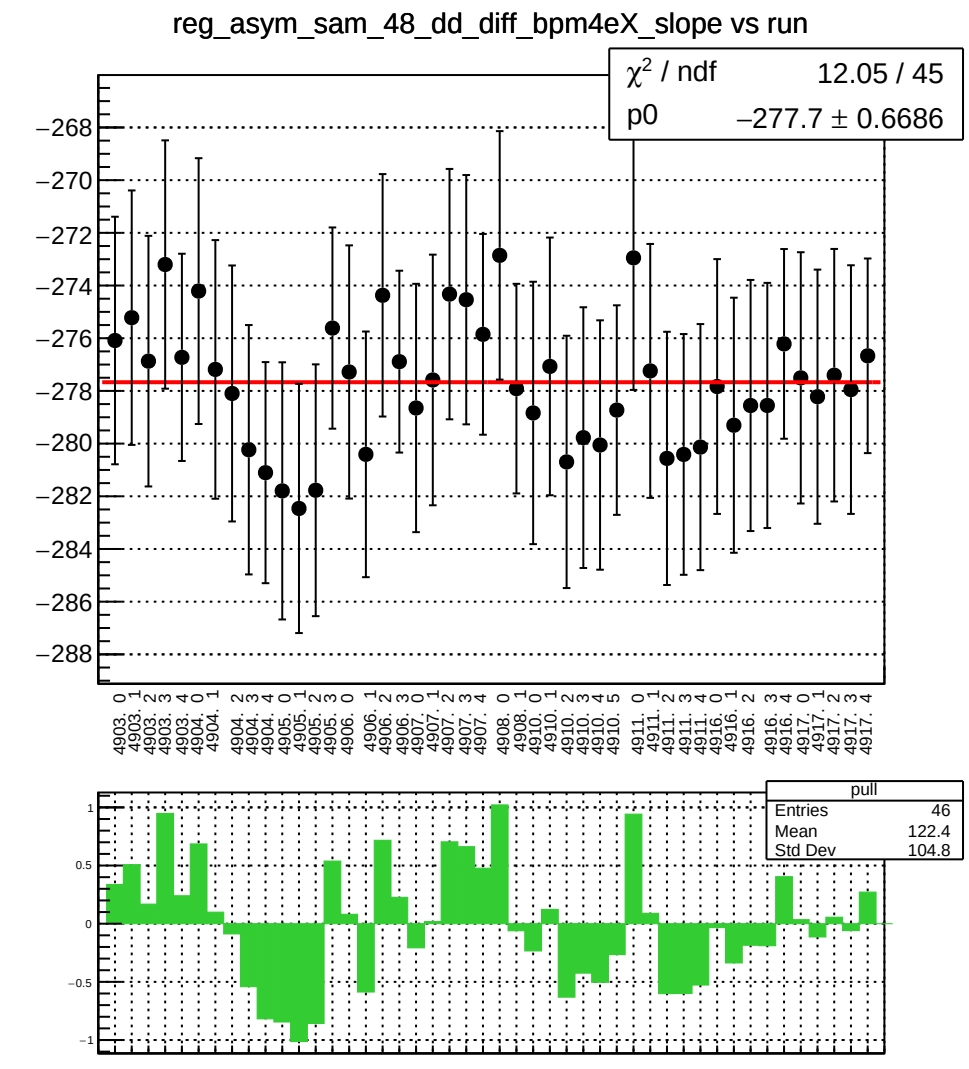

pull1D
Entries 46
Mean 0.01482
Std Dev 0.3954

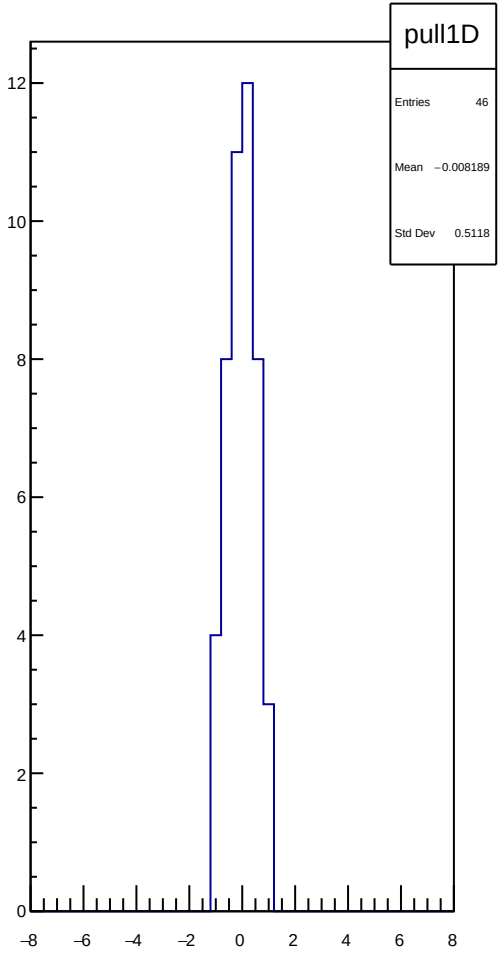

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 71.1 / 45
p0 194.2 ± 3.28
pull
Entries 46
Mean 53.58
Std Dev 38.2

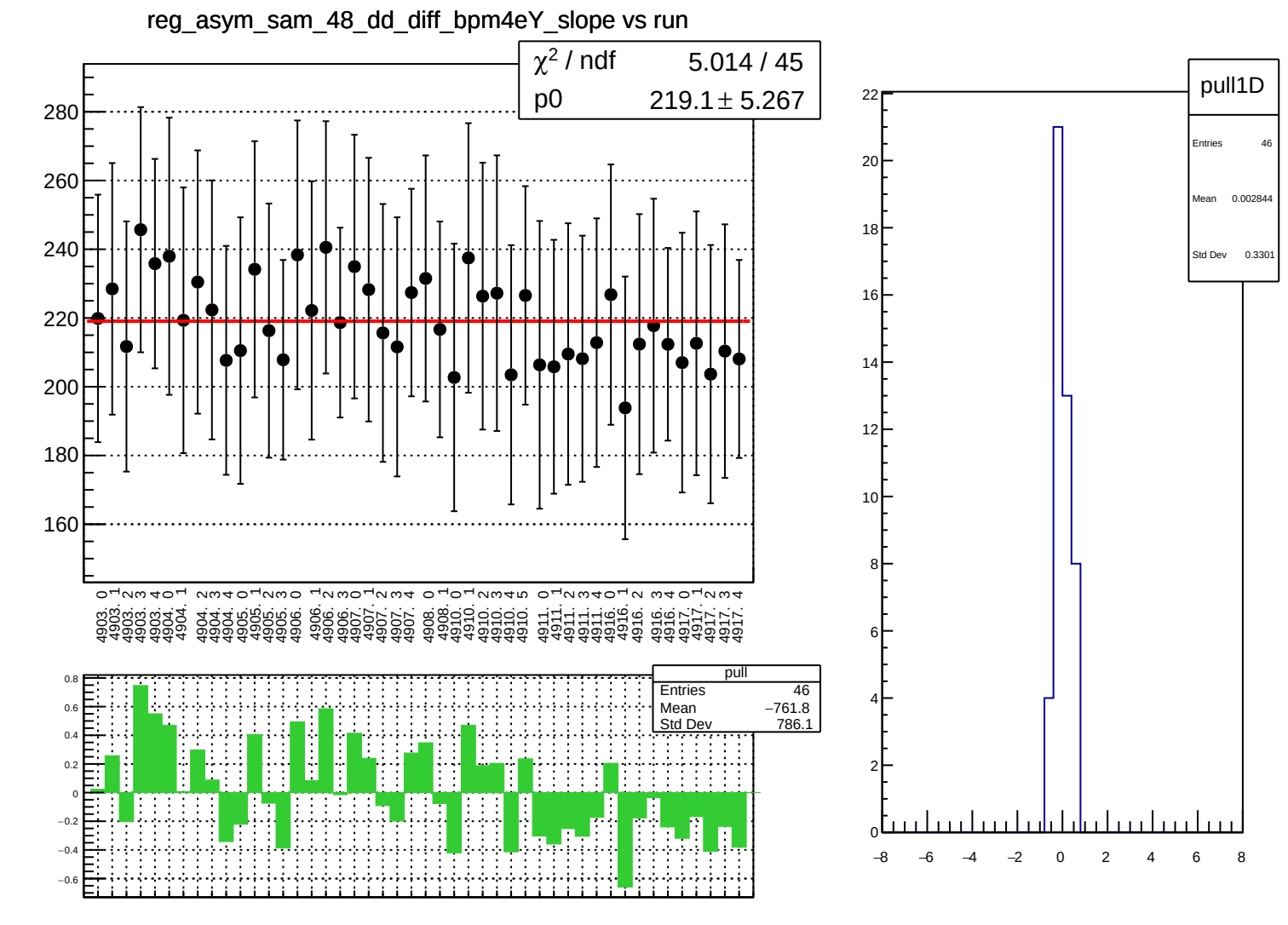

pull1D
Entries 46
Mean −0.04823
Std Dev 1.242

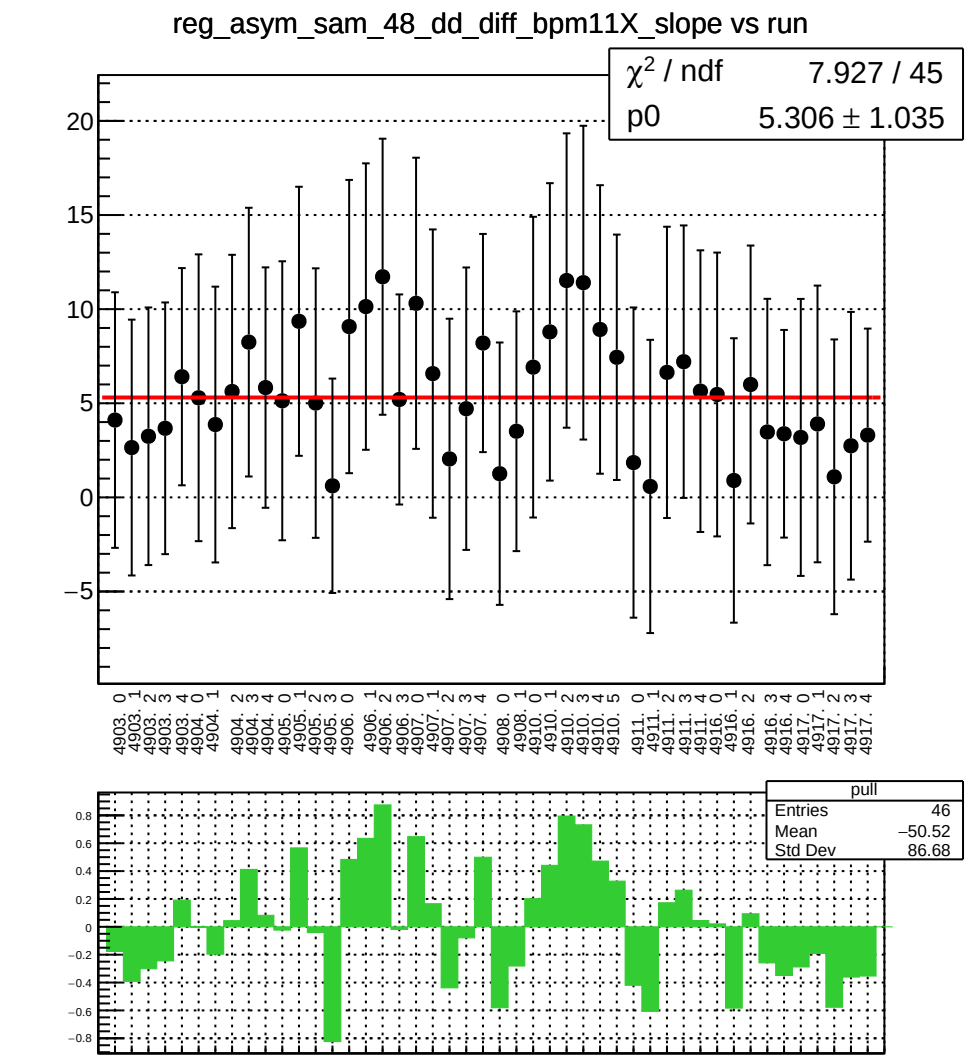

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.91 / 45
p0 −70.79 ± 4.566
pull
Entries 46
Mean −235.5
Std Dev 265.6

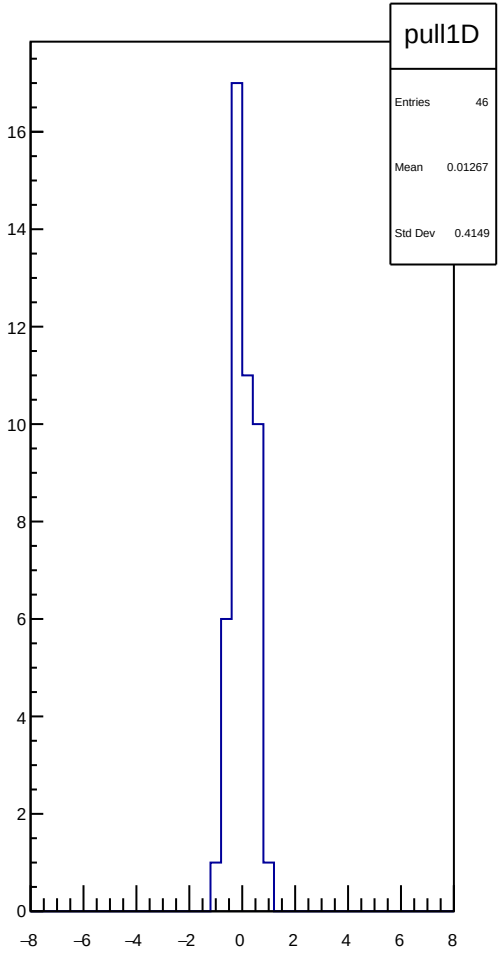

pull1D
Entries 46
Mean −0.01077
Std Dev 0.6239

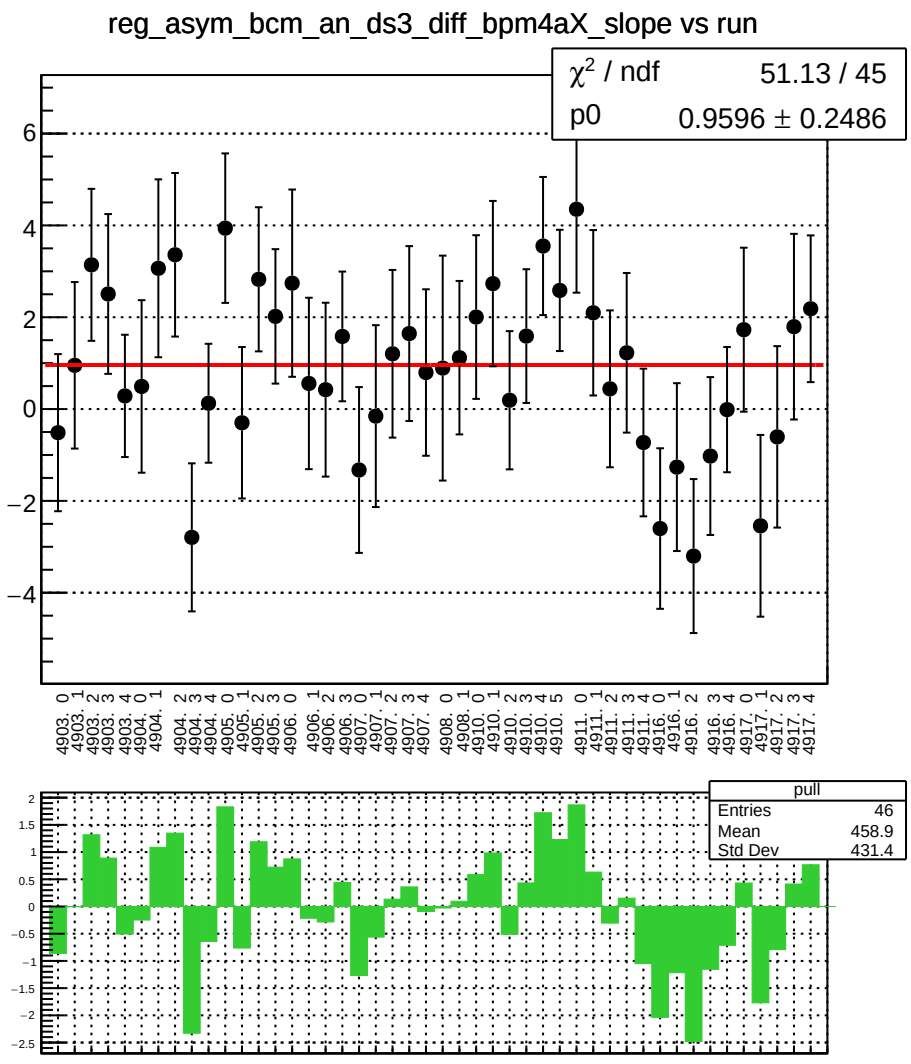

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.05 / 45
p0 −277.7 ± 0.6686
pull
Entries 46
Mean 122.4
Std Dev 104.8

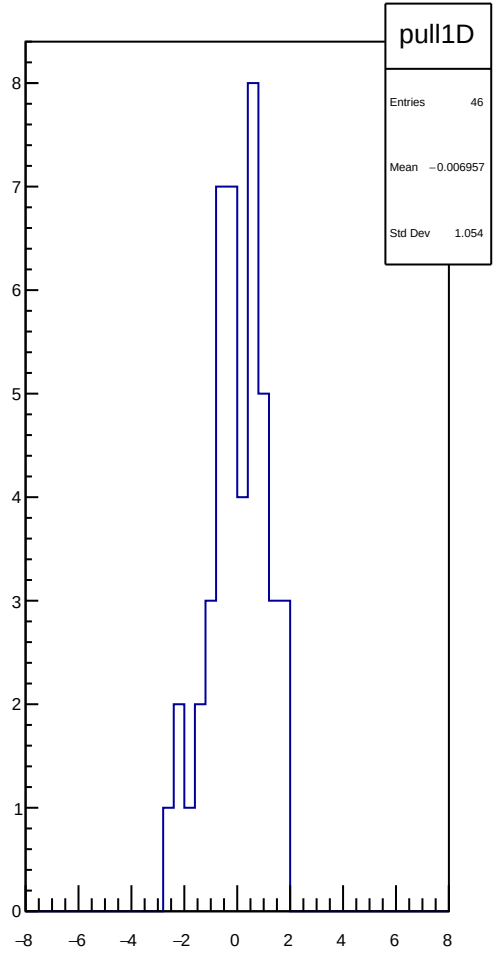

pull1D
Entries 46
Mean −0.008189
Std Dev 0.5118

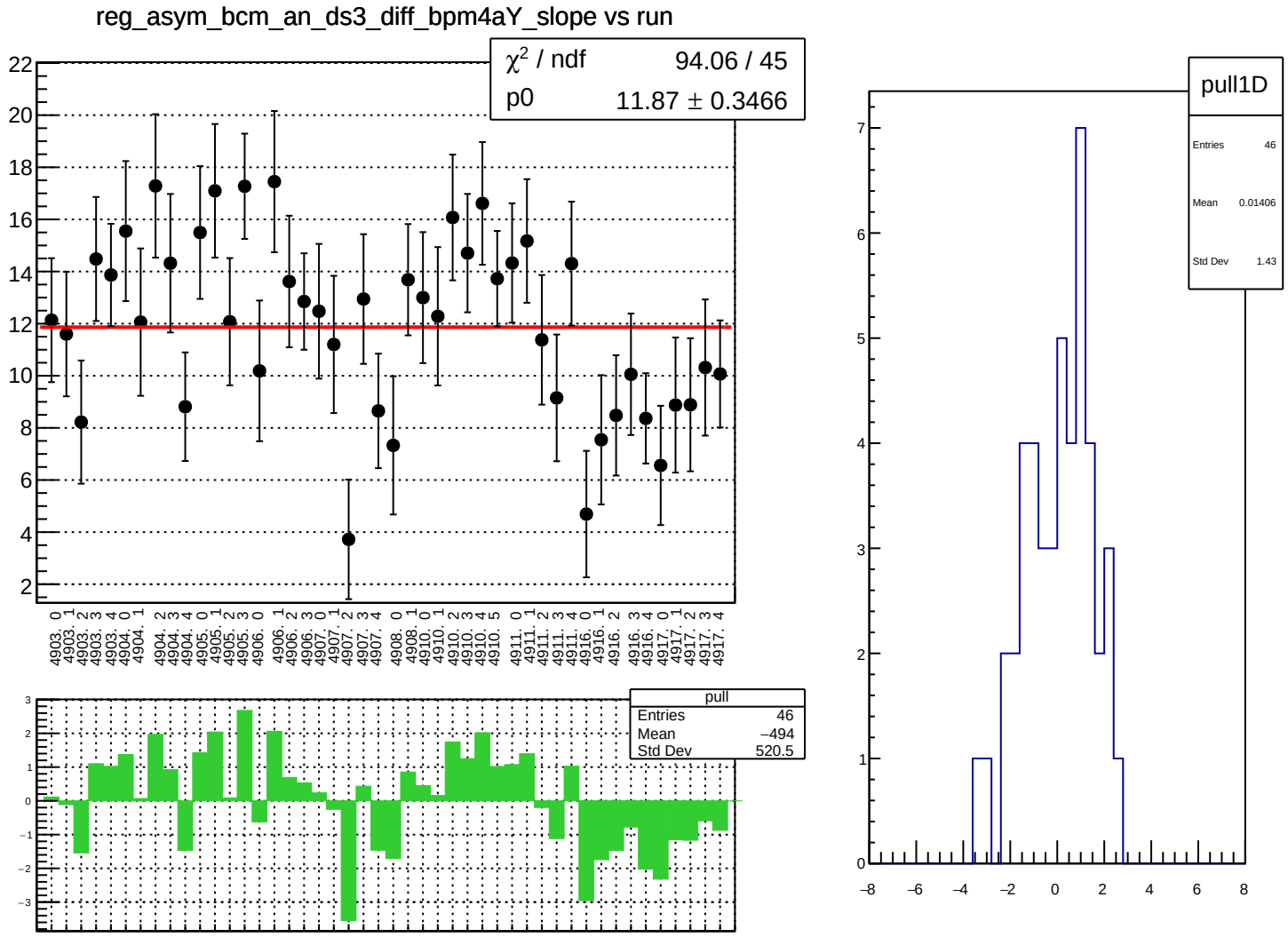

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.014 / 45
p0 219.1 ± 5.267
280
260
240
220
200
180
160
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −761.8
Std Dev 786.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.002844
Std Dev 0.3301
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

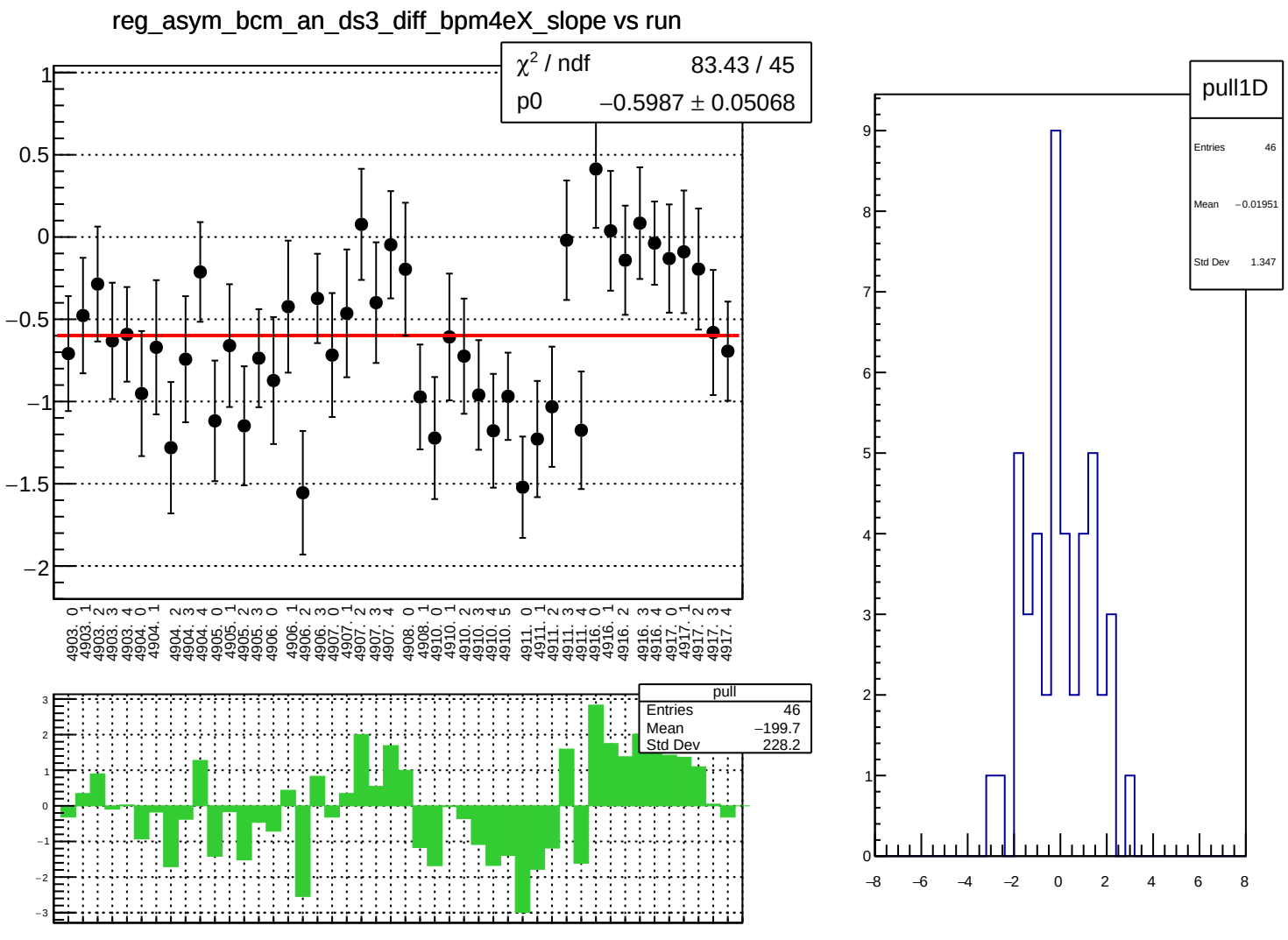

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 7.927 / 45
p0 5.306 ± 1.035
pull
Entries 46
Mean −50.52
Std Dev 86.68

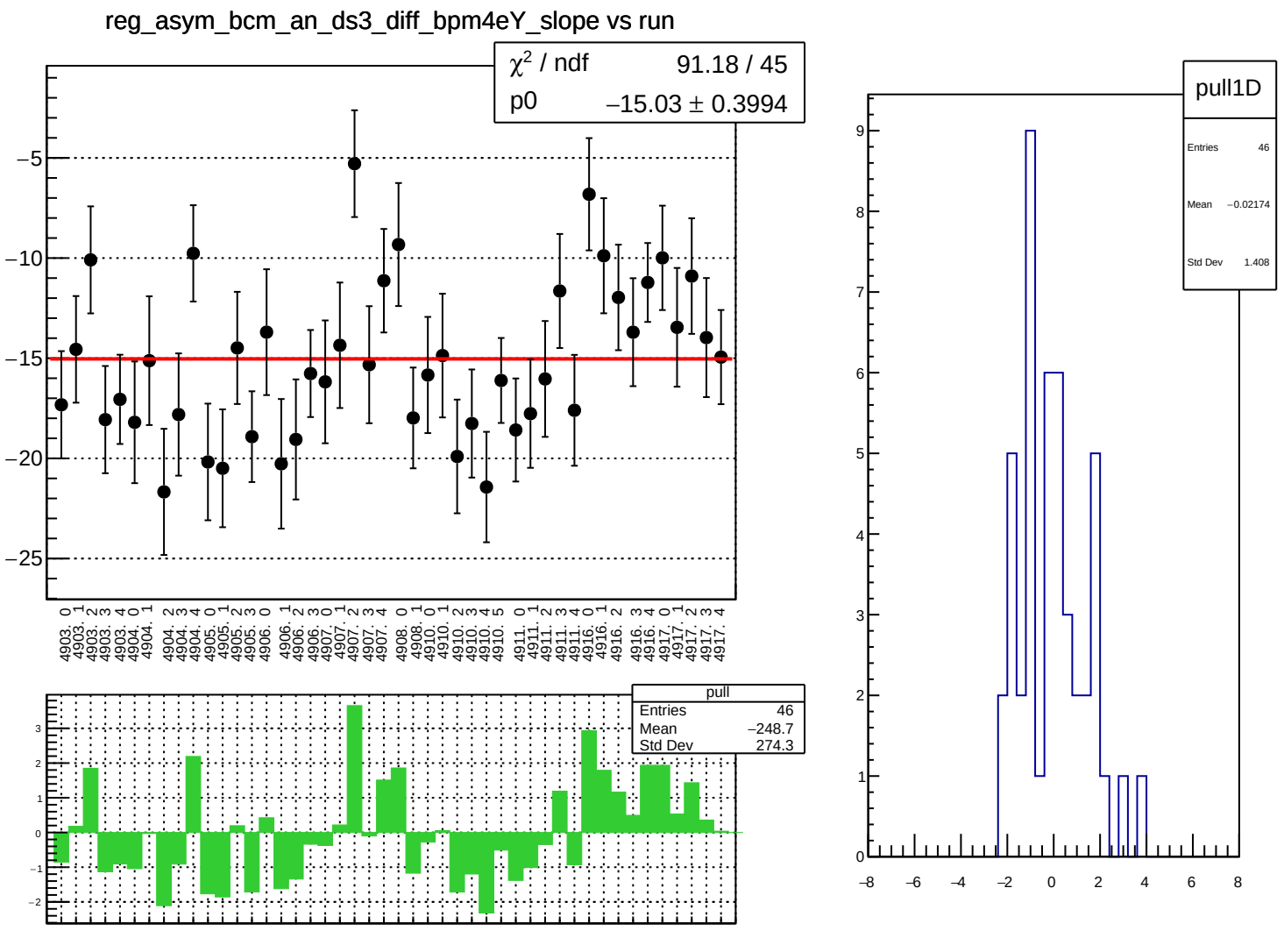

pull1D
Entries 46
Mean 0.01267
Std Dev 0.4149

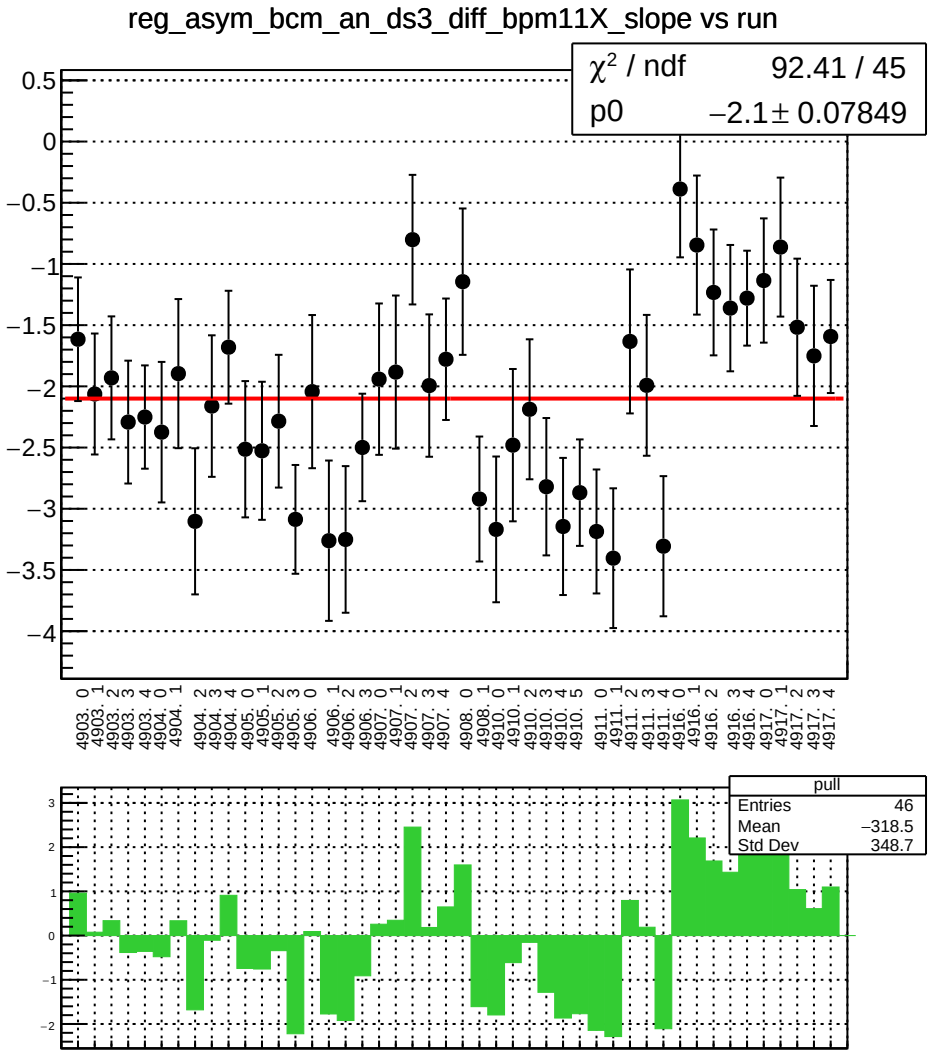

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 51.13 / 45
p0 0.9596 ± 0.2486
pull
Entries 46
Mean 458.9
Std Dev 431.4

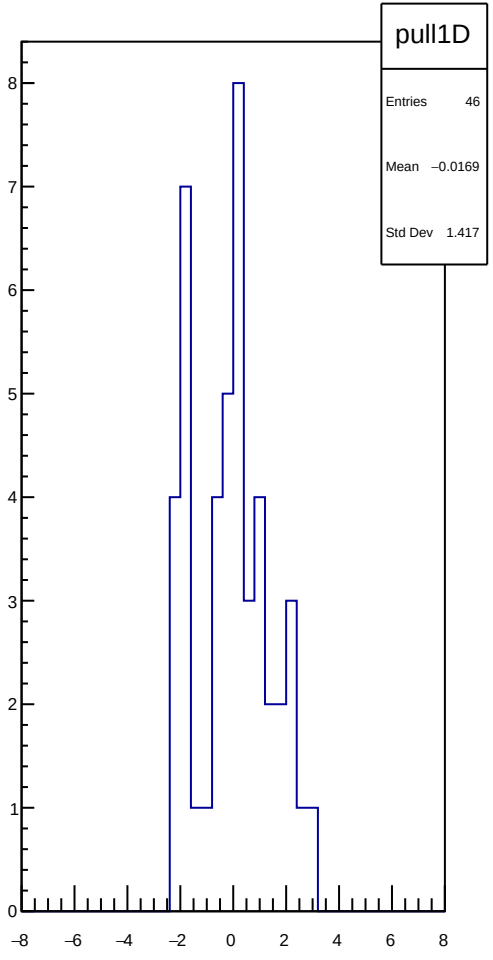

pull1D
Entries 46
Mean −0.006957
Std Dev 1.054

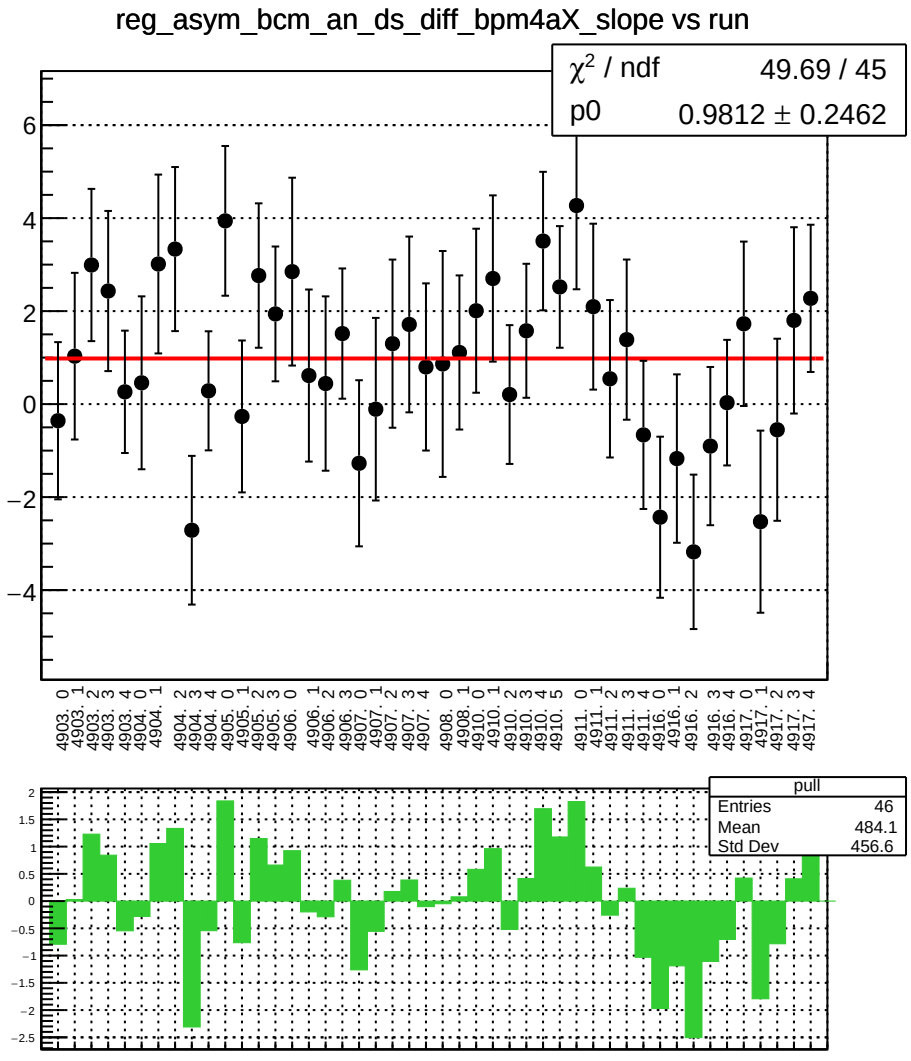

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 94.06 / 45
p0 11.87 ± 0.3466
pull
Entries 46
Mean −494
Std Dev 520.5
pull1D
Entries 46
Mean 0.01406
Std Dev 1.43

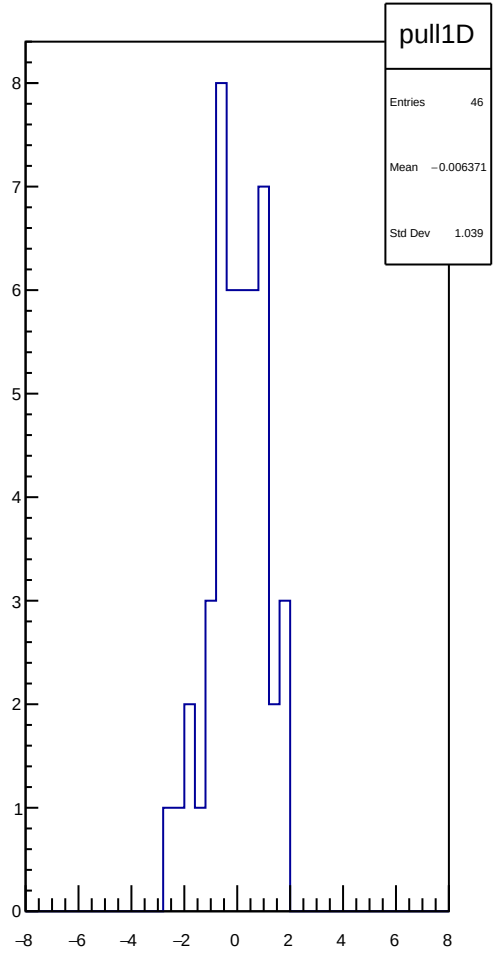

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 83.43 / 45
p0 −0.5987 ± 0.05068
pull
Entries 46
Mean −199.7
Std Dev 228.2
pull1D
Entries 46
Mean −0.01951
Std Dev 1.347

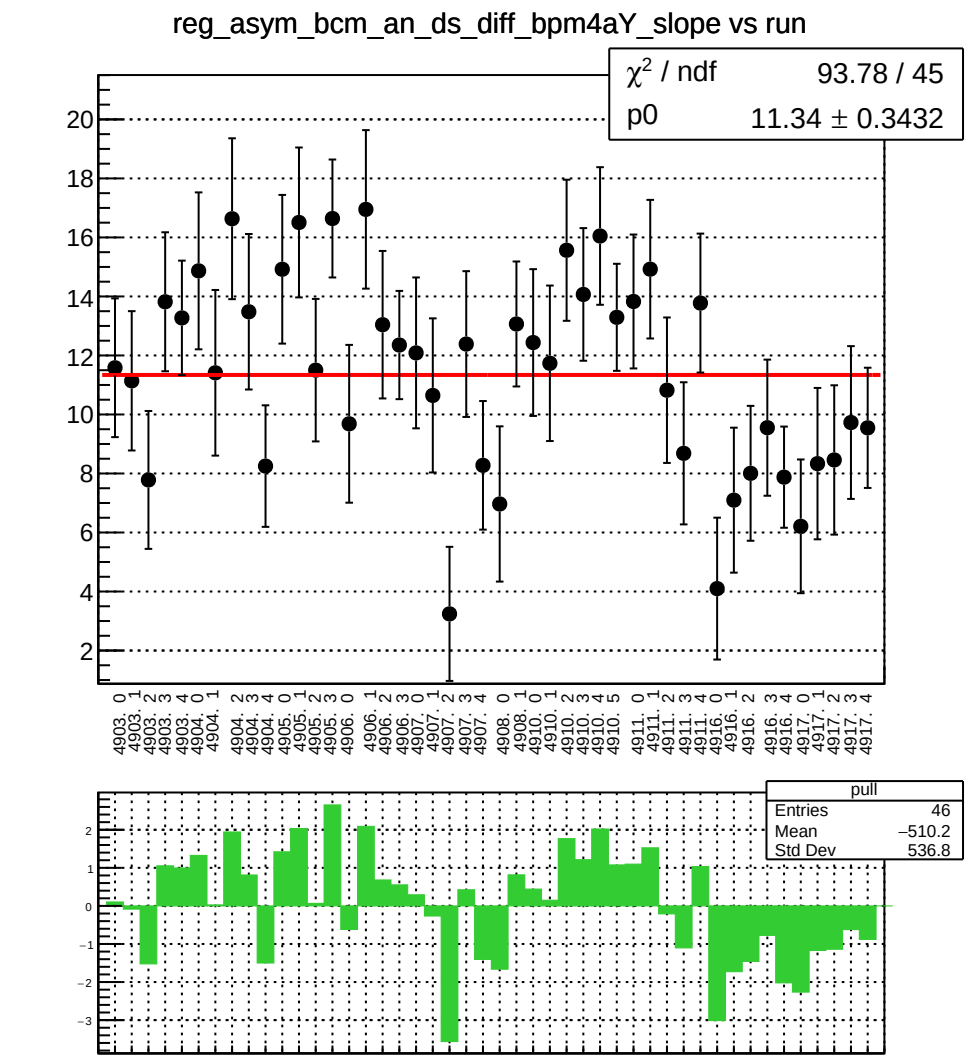

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 91.18 / 45
p0 −15.03 ± 0.3994
pull
Entries 46
Mean −248.7
Std Dev 274.3
pull1D
Entries 46
Mean −0.02174
Std Dev 1.408

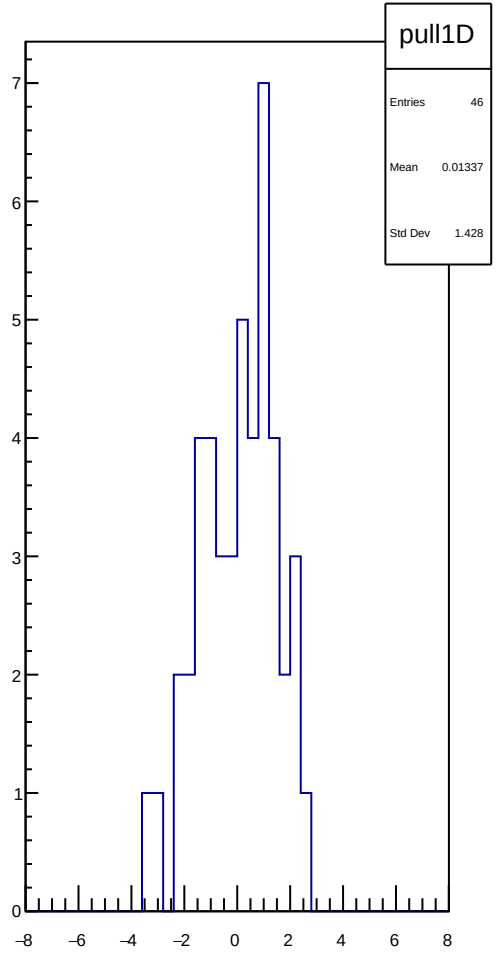

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 92.41 / 45
p0 −2.1 ± 0.07849
pull
Entries 46
Mean −318.5
Std Dev 348.7

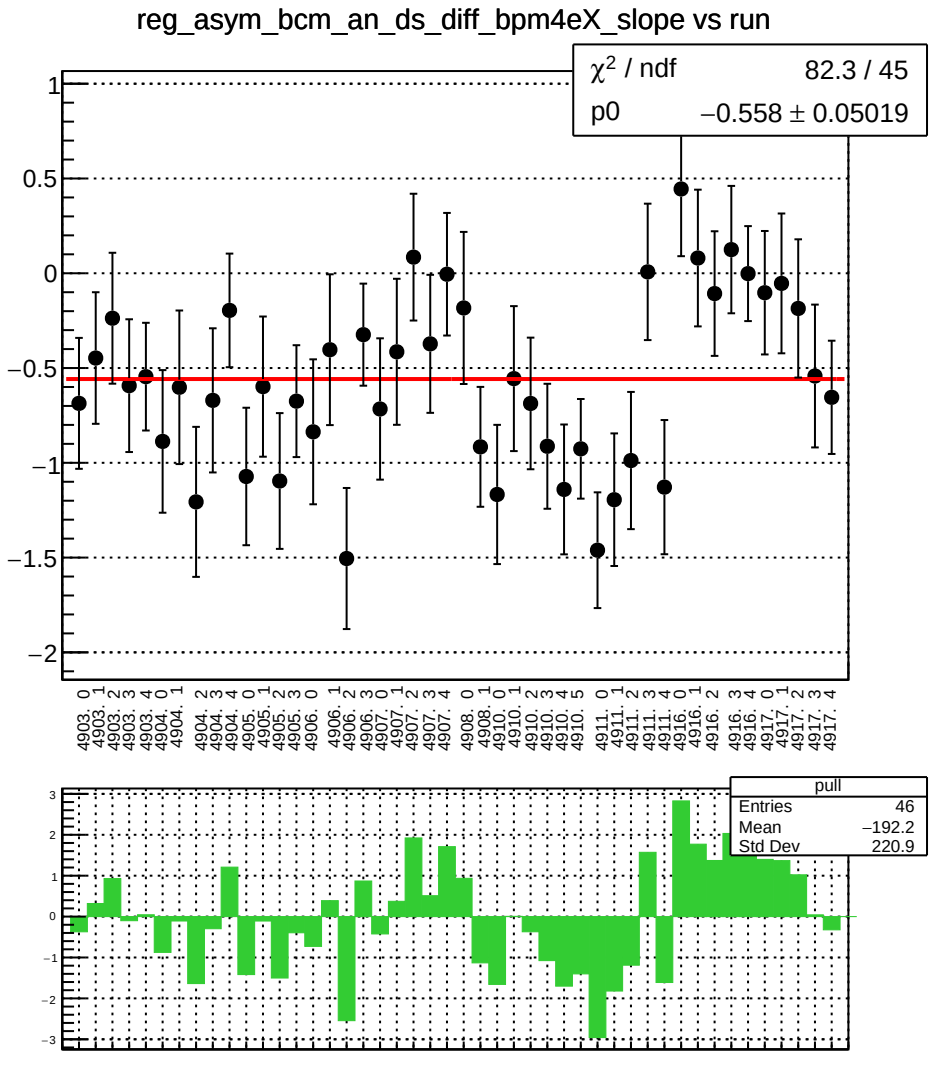

pull1D
Entries 46
Mean −0.0169
Std Dev 1.417

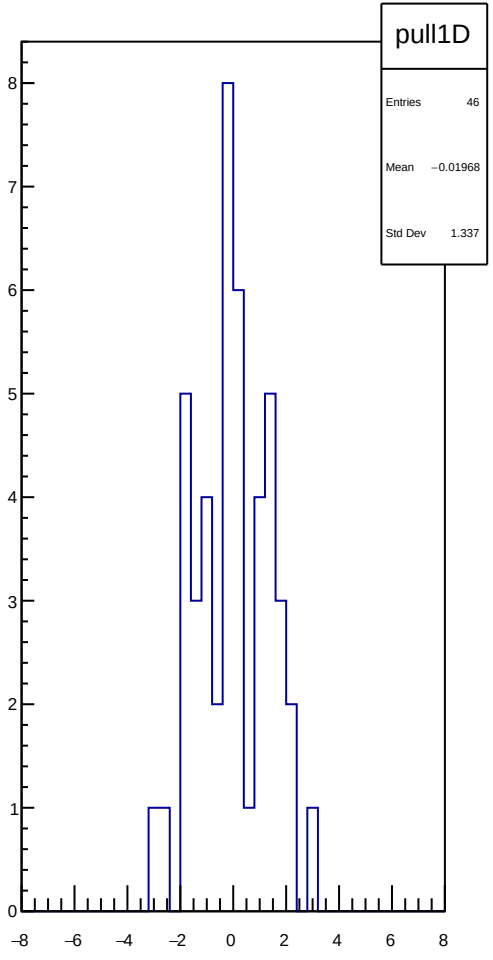

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 49.69 / 45
p0 0.9812 ± 0.2462
pull
Entries 46
Mean 484.1
Std Dev 456.6

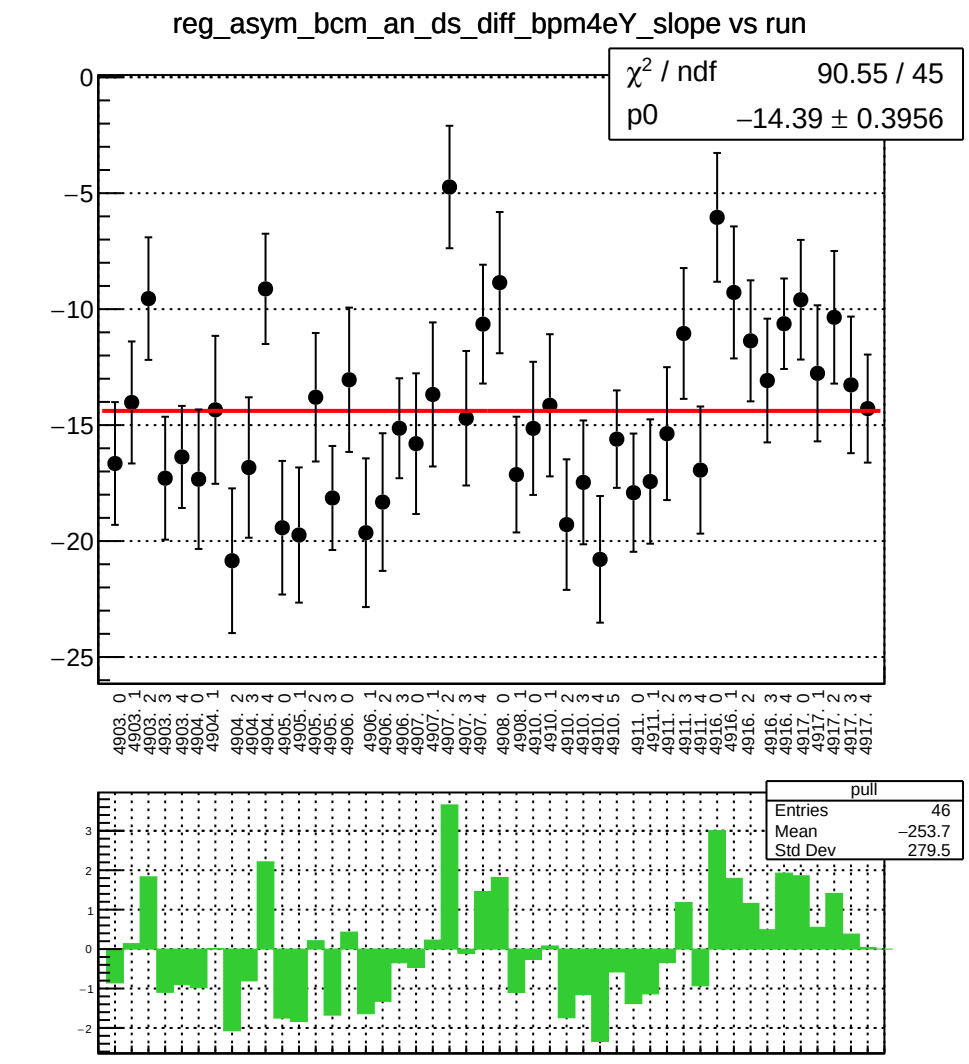

pull1D
Entries 46
Mean −0.006371
Std Dev 1.039

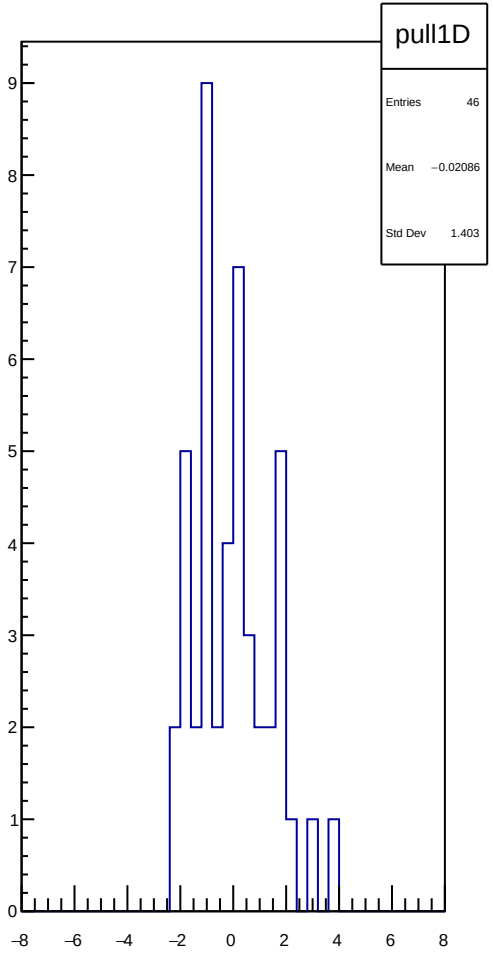

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 93.78 / 45
p0 11.34 ± 0.3432
pull
Entries 46
Mean −510.2
Std Dev 536.8

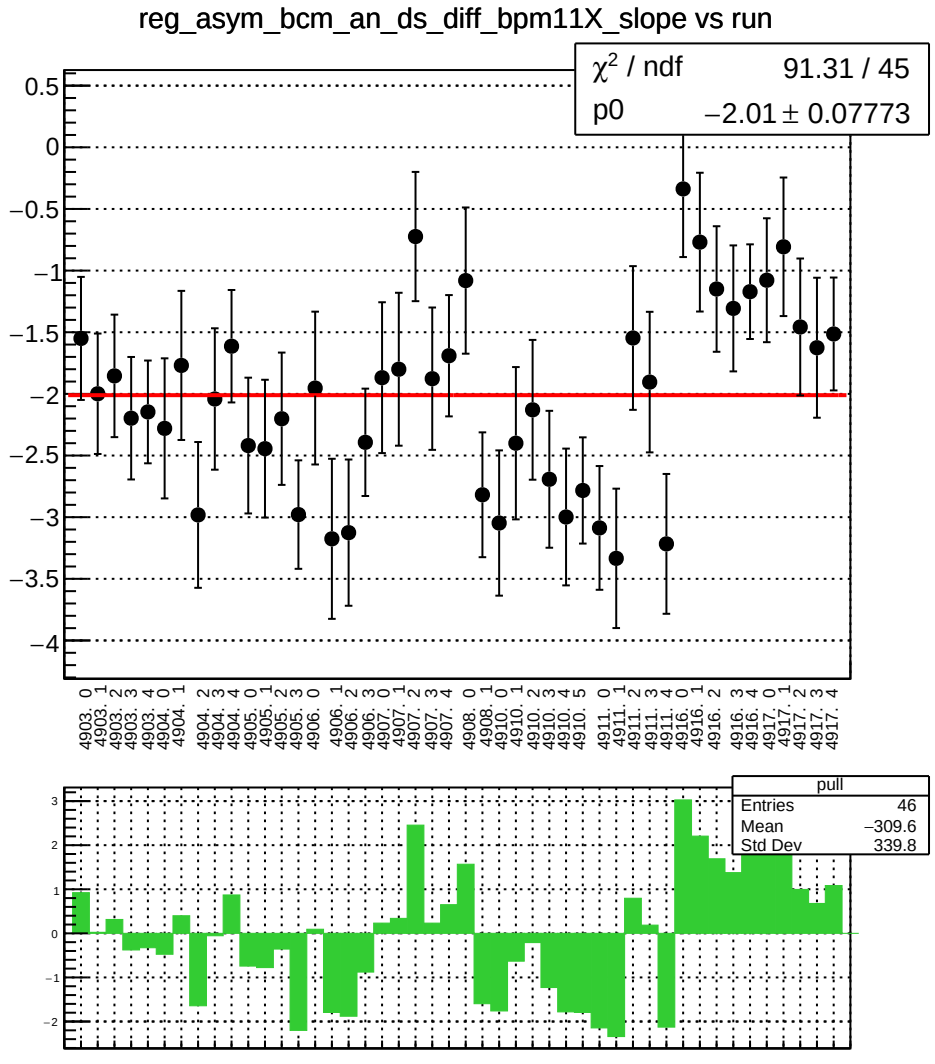

pull1D
Entries 46
Mean 0.01337
Std Dev 1.428

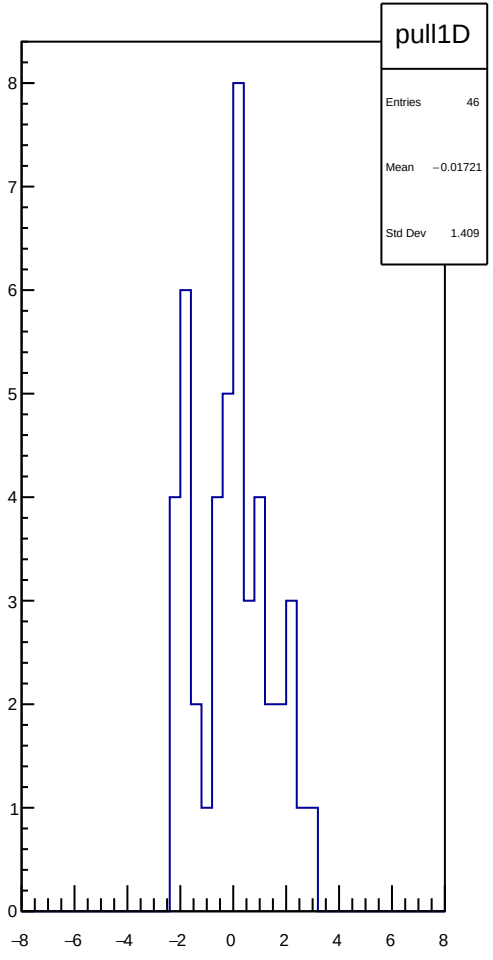

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 82.3 / 45
p0 −0.558 ± 0.05019
pull
Entries 46
Mean −192.2
Std Dev 220.9

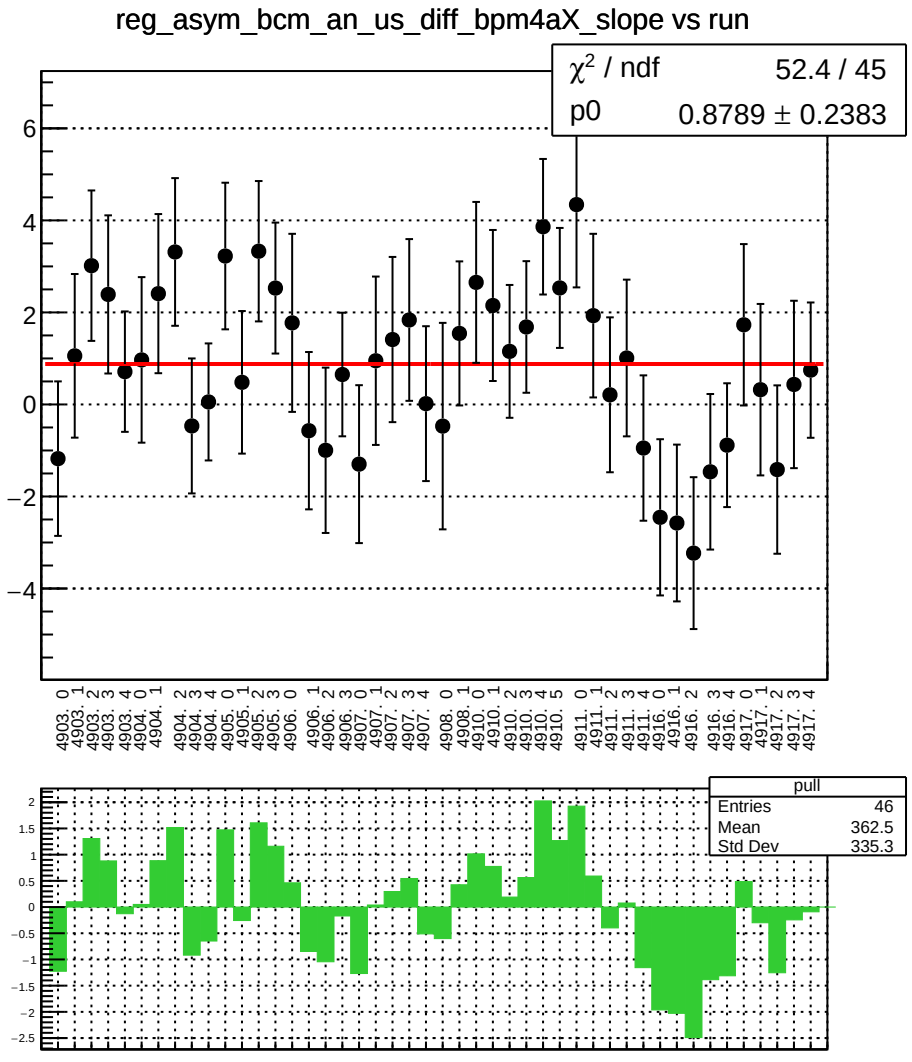

pull1D
Entries 46
Mean −0.01968
Std Dev 1.337

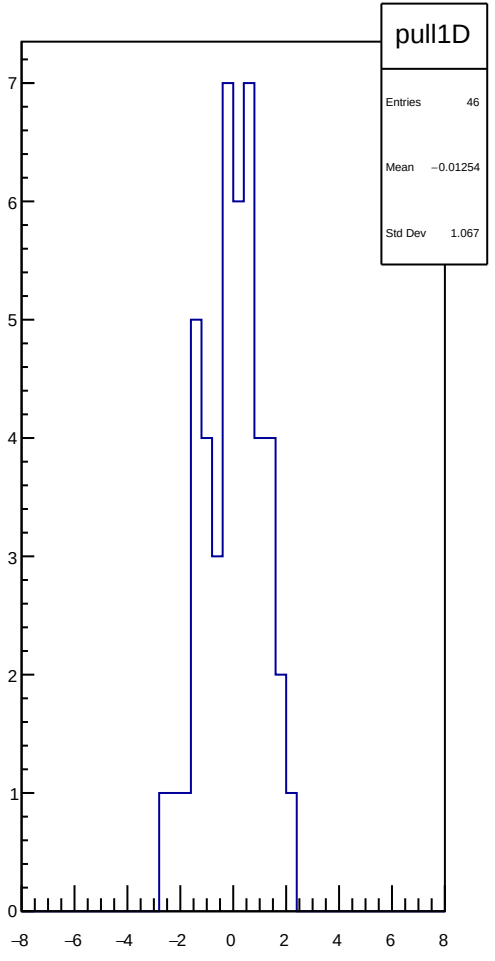

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 90.55 / 45
p0 −14.39 ± 0.3956
0
−5
−10
−15
−20
−25
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean −253.7
Std Dev 279.5
3
2
1
0
−1
−2

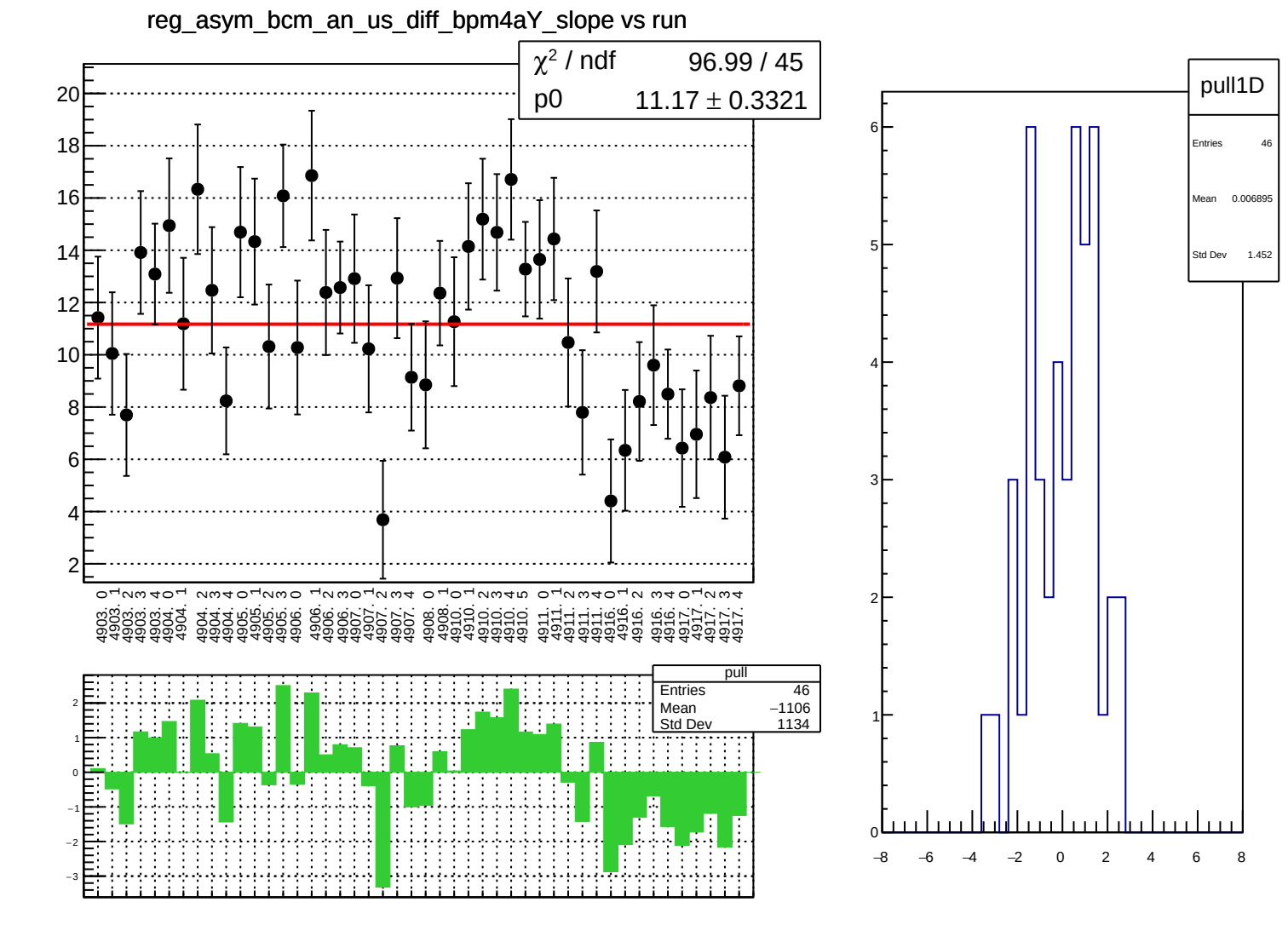

pull1D
Entries 46
Mean −0.02086
Std Dev 1.403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

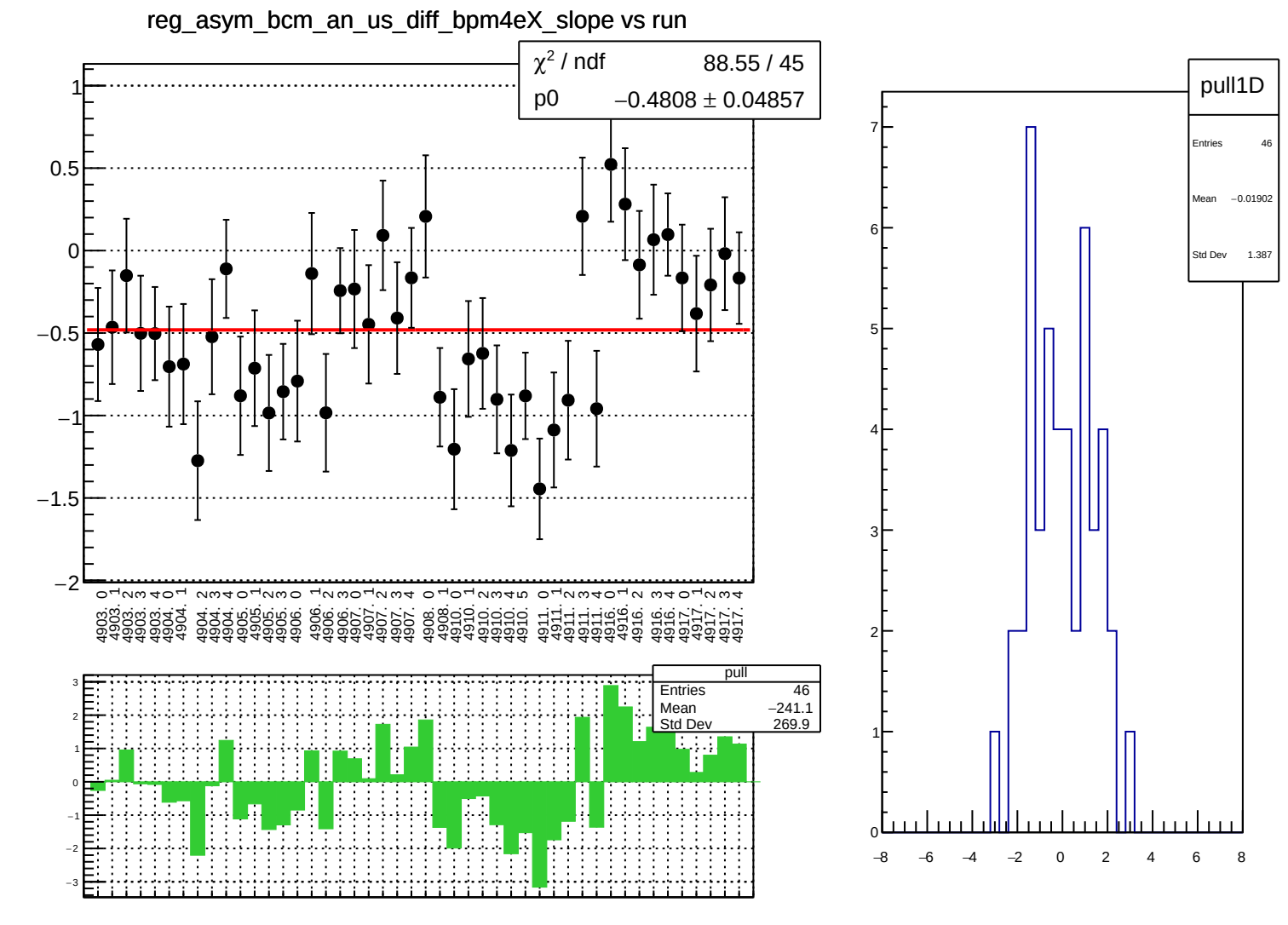

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 91.31 / 45
p0 −2.01 ± 0.07773
pull
Entries 46
Mean −309.6
Std Dev 339.8

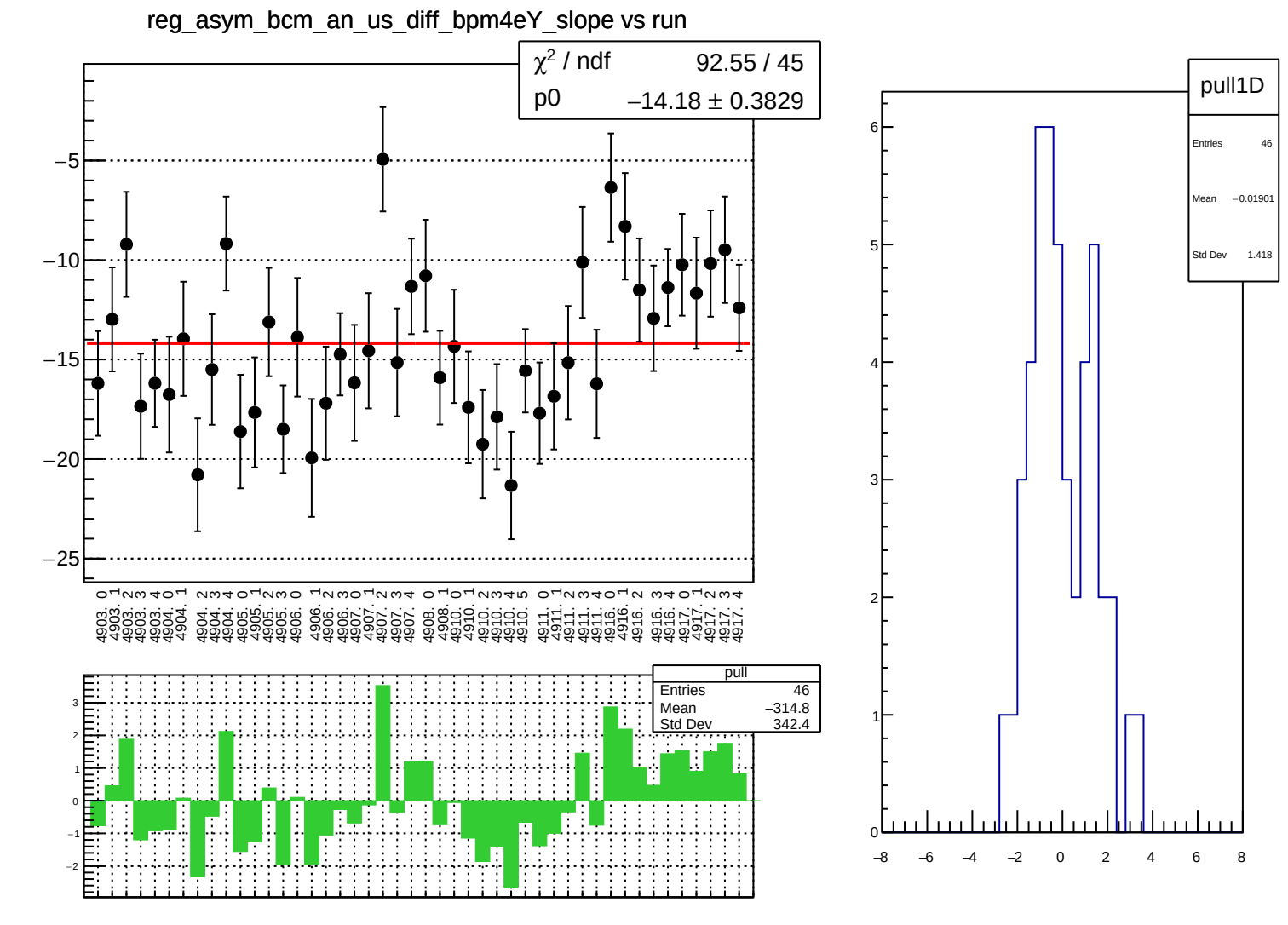

pull1D
Entries 46
Mean −0.01721
Std Dev 1.409

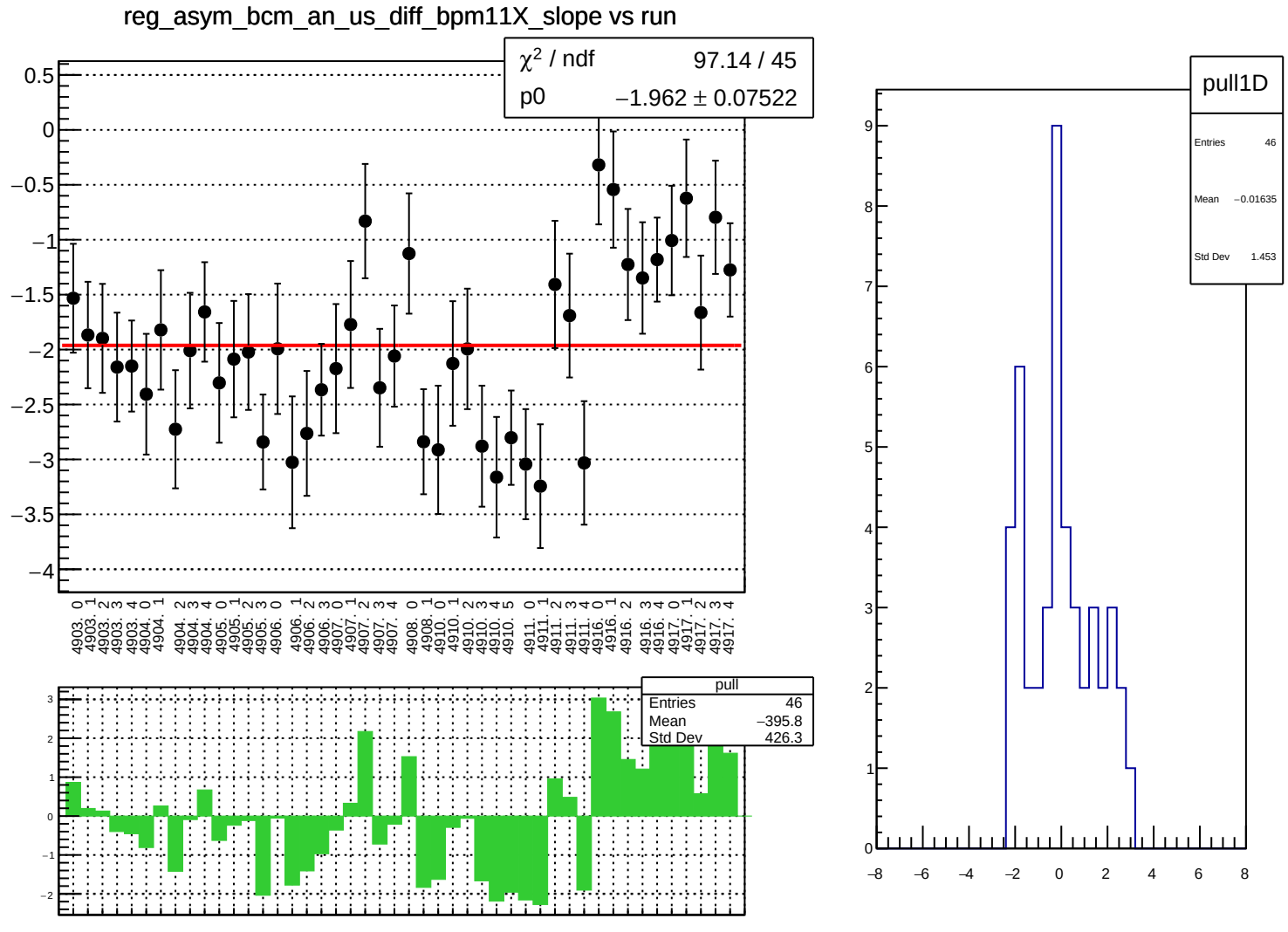

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 52.4 / 45
p0 0.8789 ± 0.2383
pull
Entries 46
Mean 362.5
Std Dev 335.3

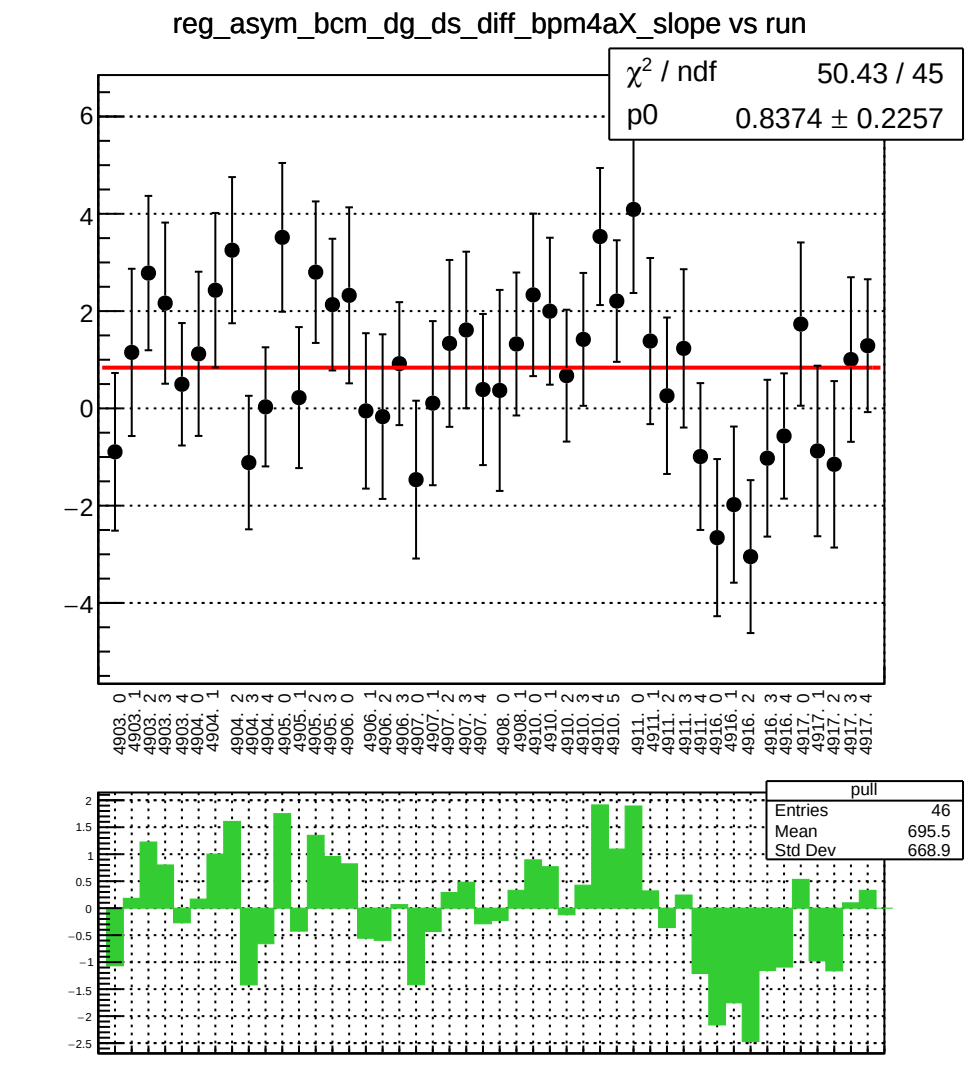

pull1D
Entries 46
Mean −0.01254
Std Dev 1.067

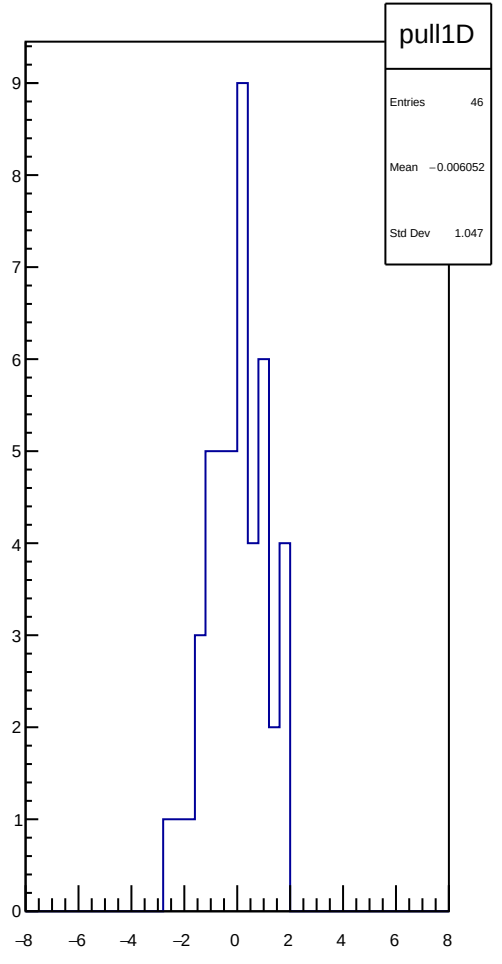

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 96.99 / 45
p0 11.17 ± 0.3321
pull
Entries 46
Mean −1106
Std Dev 1134
pull1D
Entries 46
Mean 0.006895
Std Dev 1.452

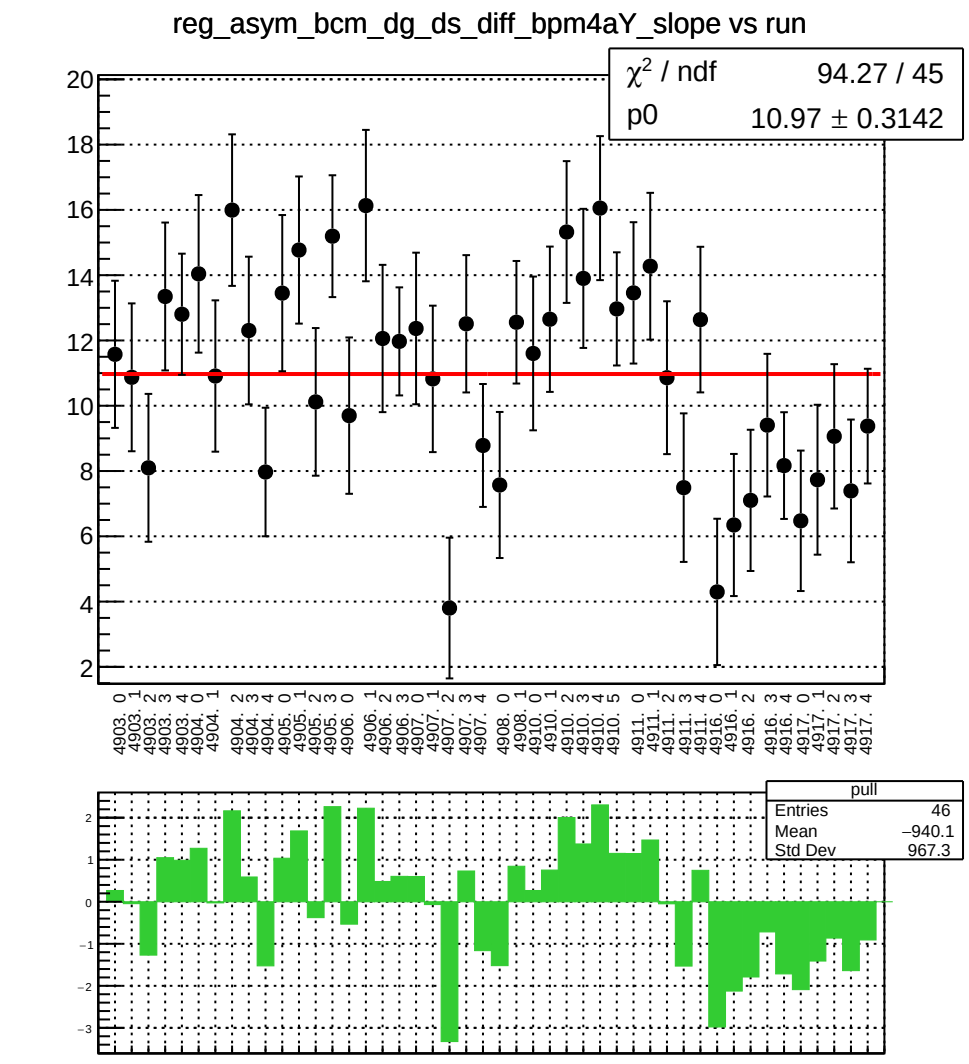

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 88.55 / 45
p0 −0.4808 ± 0.04857
pull
Entries 46
Mean −241.1
Std Dev 269.9
pull1D
Entries 46
Mean −0.01902
Std Dev 1.387

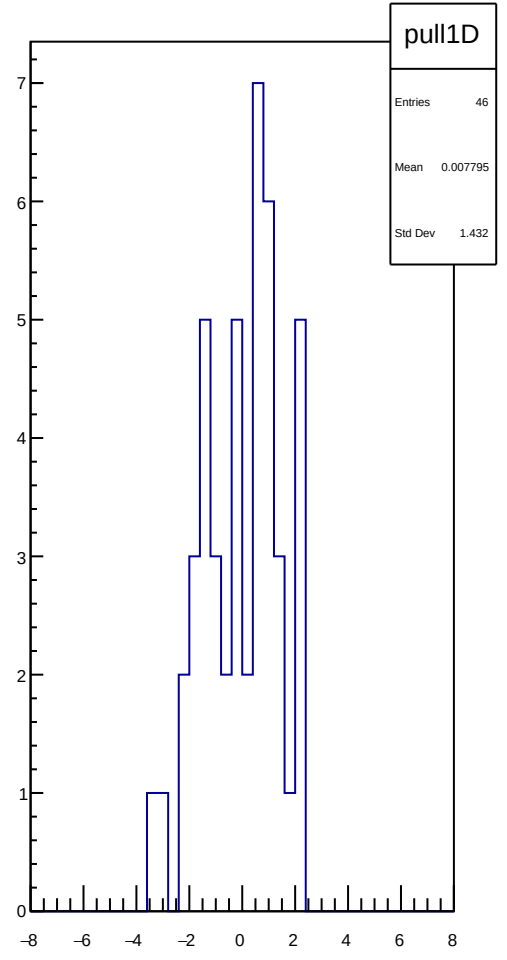

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 92.55 / 45
p0 −14.18 ± 0.3829
pull
Entries 46
Mean −314.8
Std Dev 342.4
pull1D
Entries 46
Mean −0.01901
Std Dev 1.418

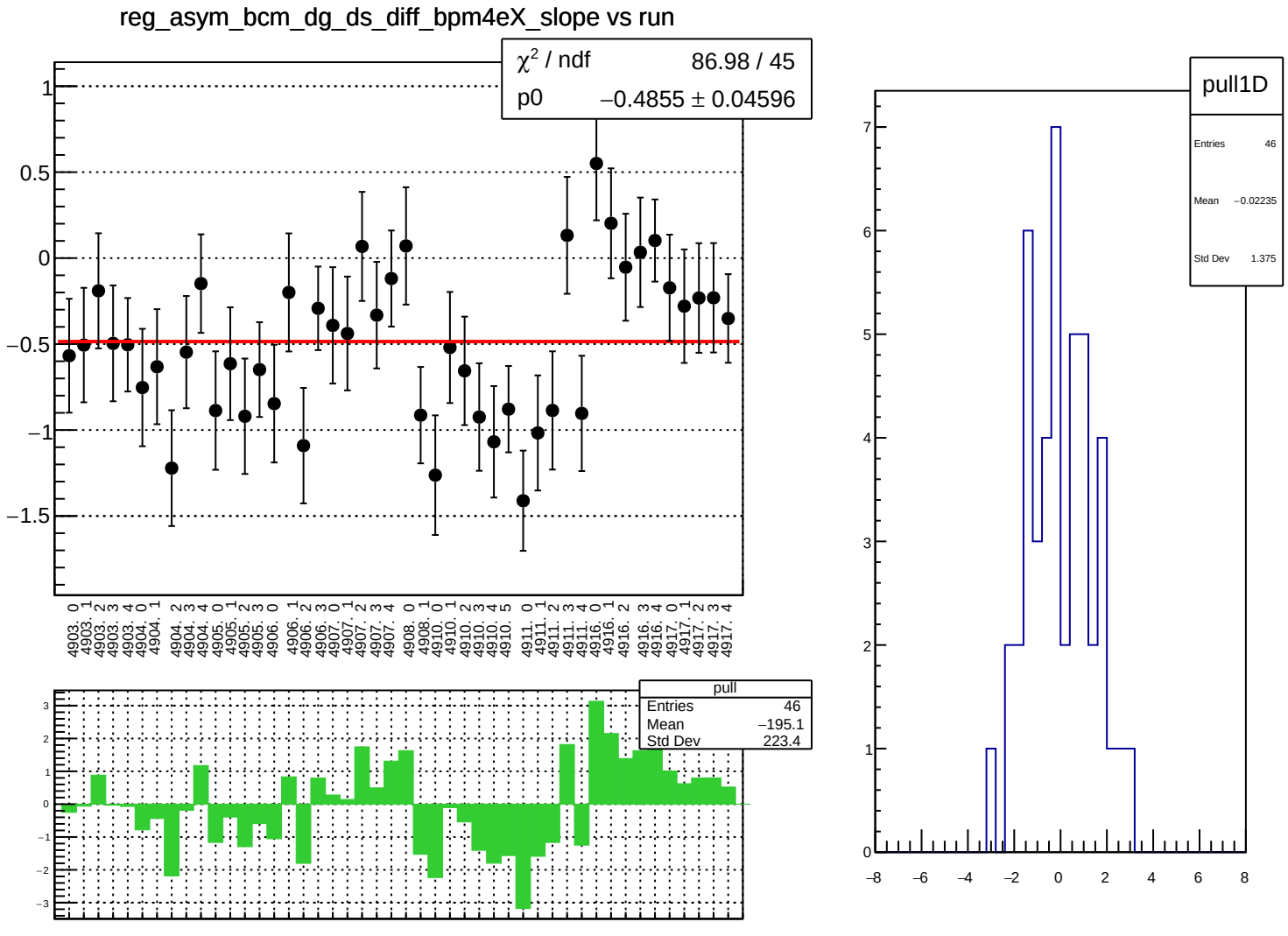

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 97.14 / 45
p0 −1.962 ± 0.07522
pull
Entries 46
Mean −395.8
Std Dev 426.3
pull1D
Entries 46
Mean −0.01635
Std Dev 1.453

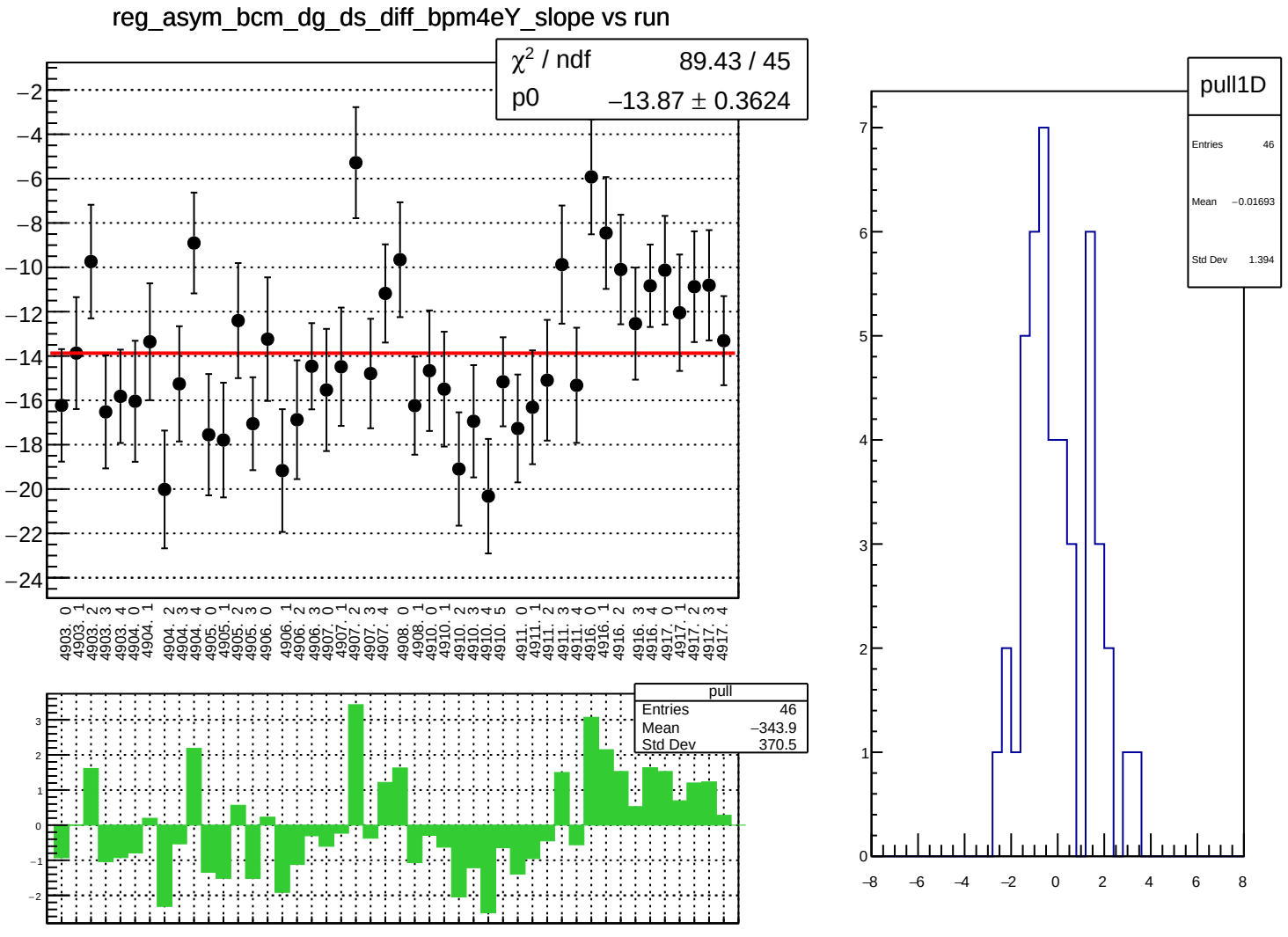

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 50.43 / 45
p0 0.8374 ± 0.2257
pull
Entries 46
Mean 695.5
Std Dev 668.9

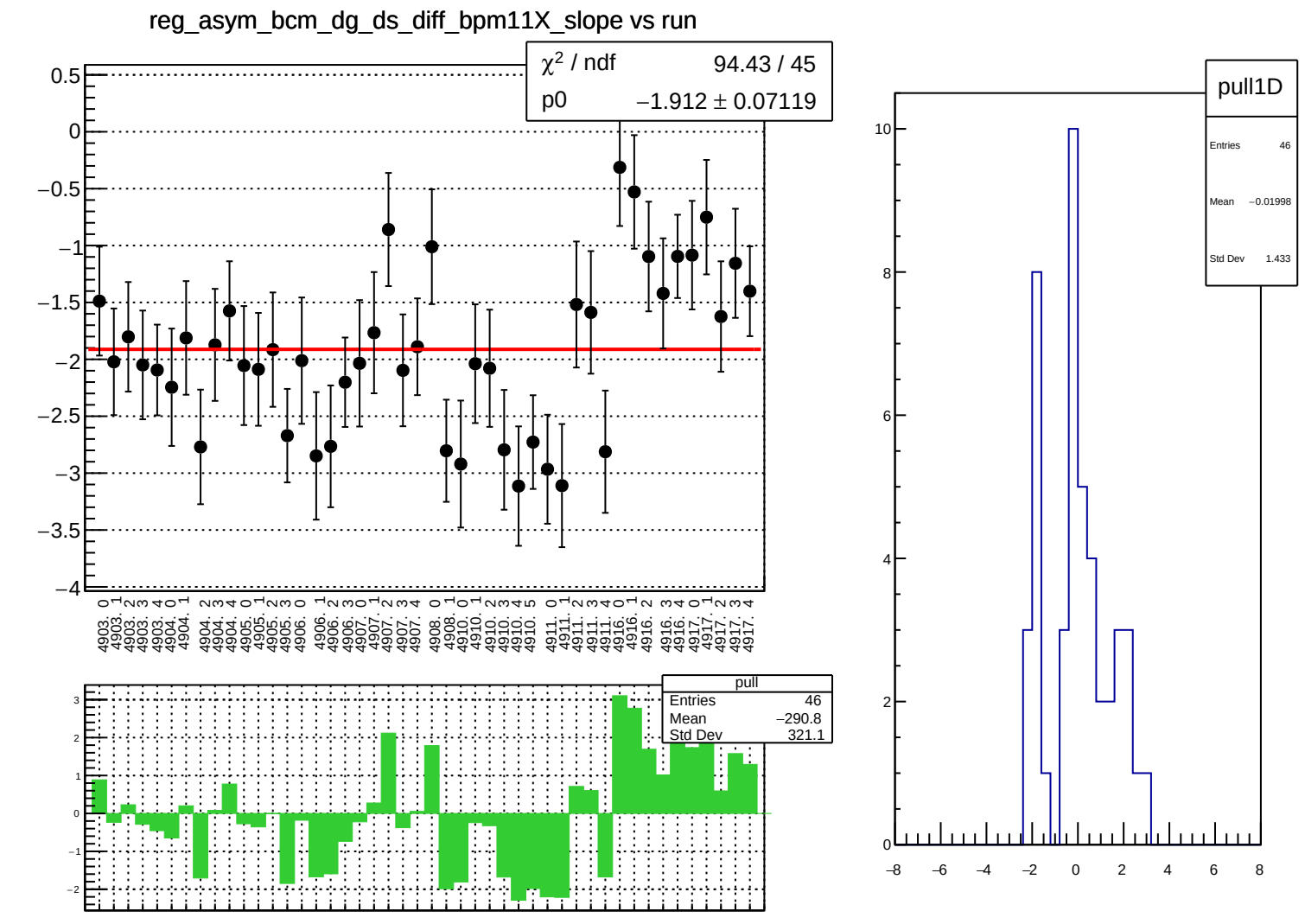

pull1D
Entries 46
Mean −0.006052
Std Dev 1.047

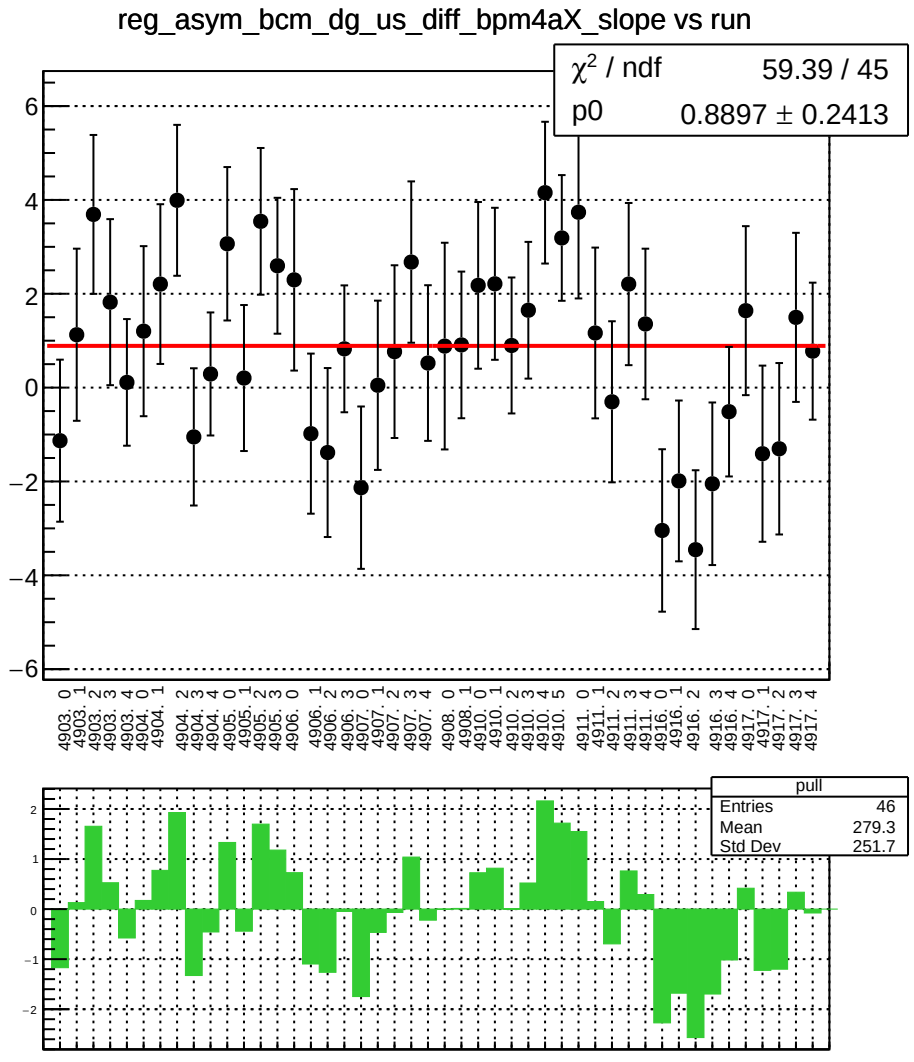

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 94.27 / 45
p0 10.97 ± 0.3142
pull
Entries 46
Mean −940.1
Std Dev 967.3

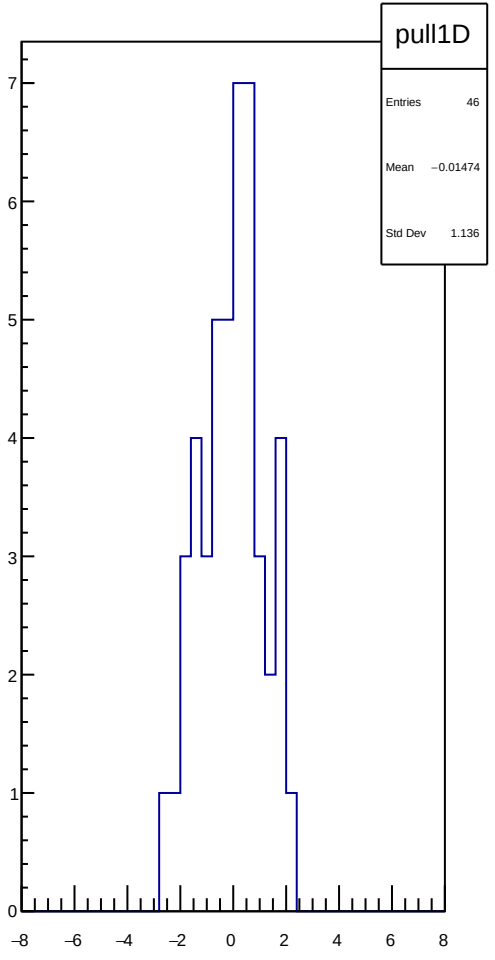

pull1D
Entries 46
Mean 0.007795
Std Dev 1.432

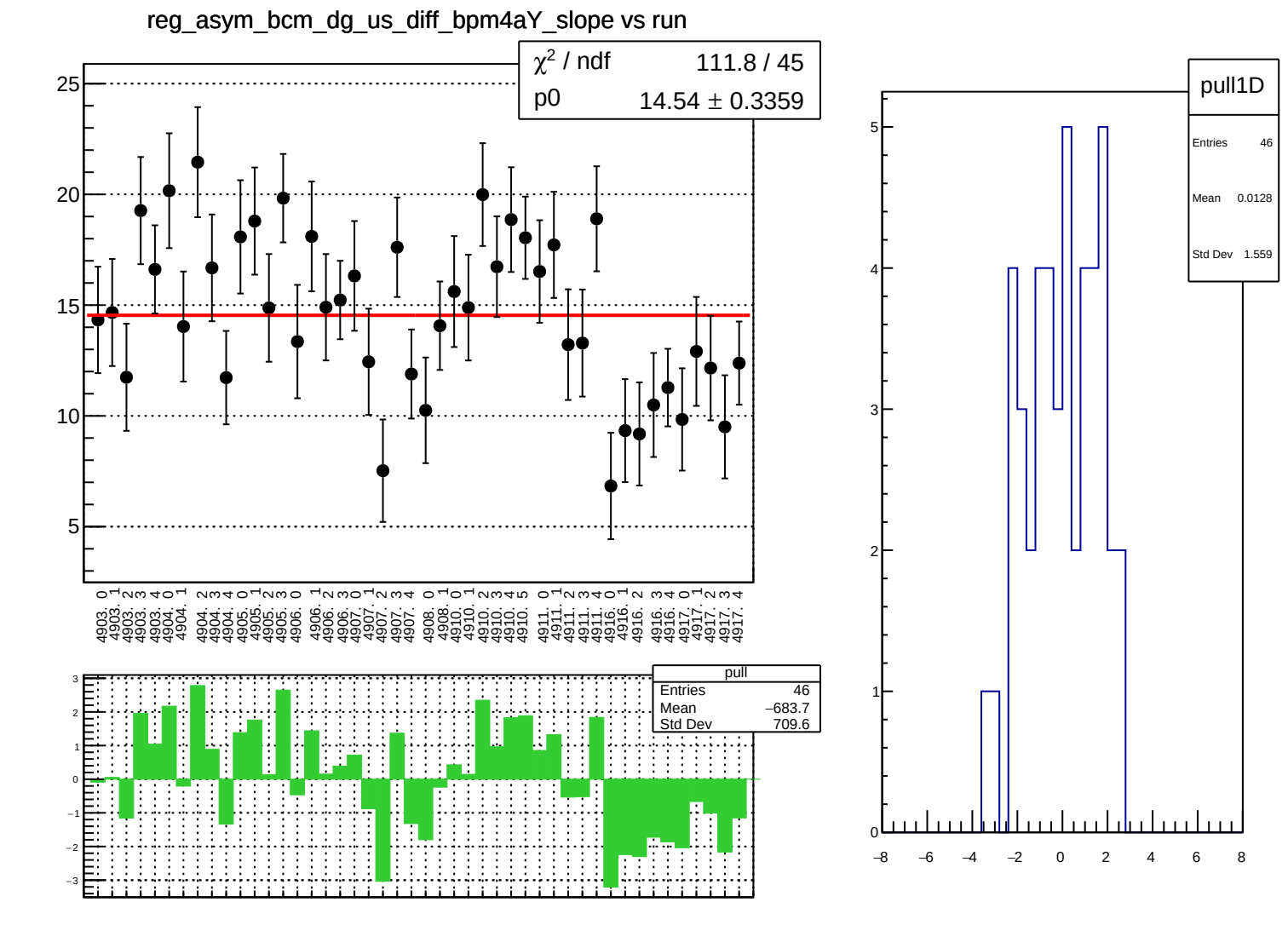

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 86.98 / 45
p0 −0.4855 ± 0.04596
pull
Entries 46
Mean −195.1
Std Dev 223.4
pull1D
Entries 46
Mean −0.02235
Std Dev 1.375

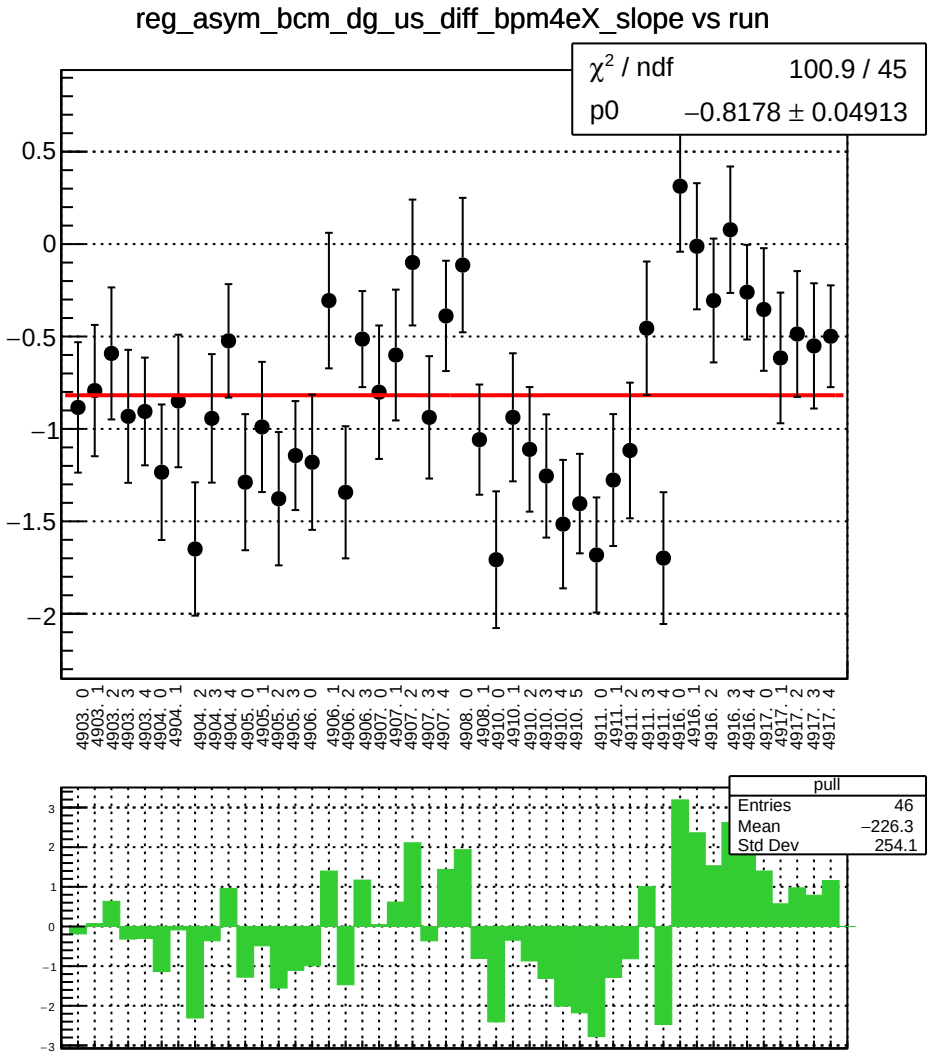

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 89.43 / 45
p0 −13.87 ± 0.3624
pull
Entries 46
Mean −343.9
Std Dev 370.5
pull1D
Entries 46
Mean −0.01693
Std Dev 1.394

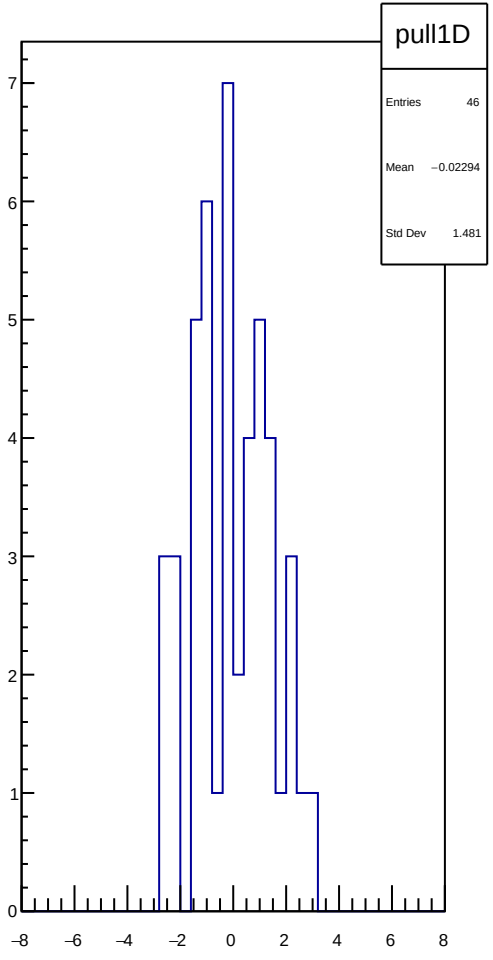

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 94.43 / 45
p0 −1.912 ± 0.07119
pull
Entries 46
Mean −290.8
Std Dev 321.1
pull1D
Entries 46
Mean −0.01998
Std Dev 1.433

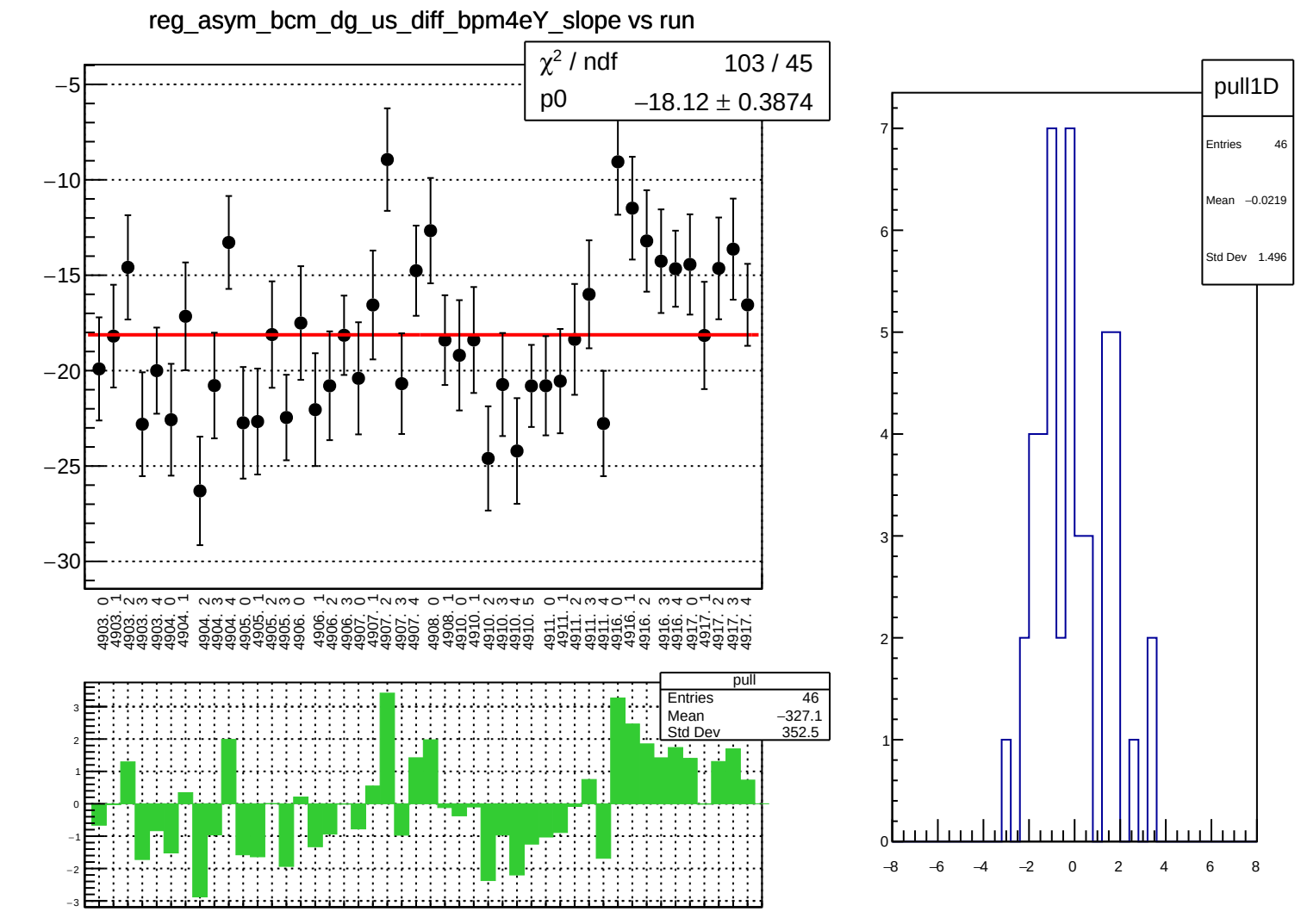

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 59.39 / 45
p0 0.8897 ± 0.2413
pull
Entries 46
Mean 279.3
Std Dev 251.7

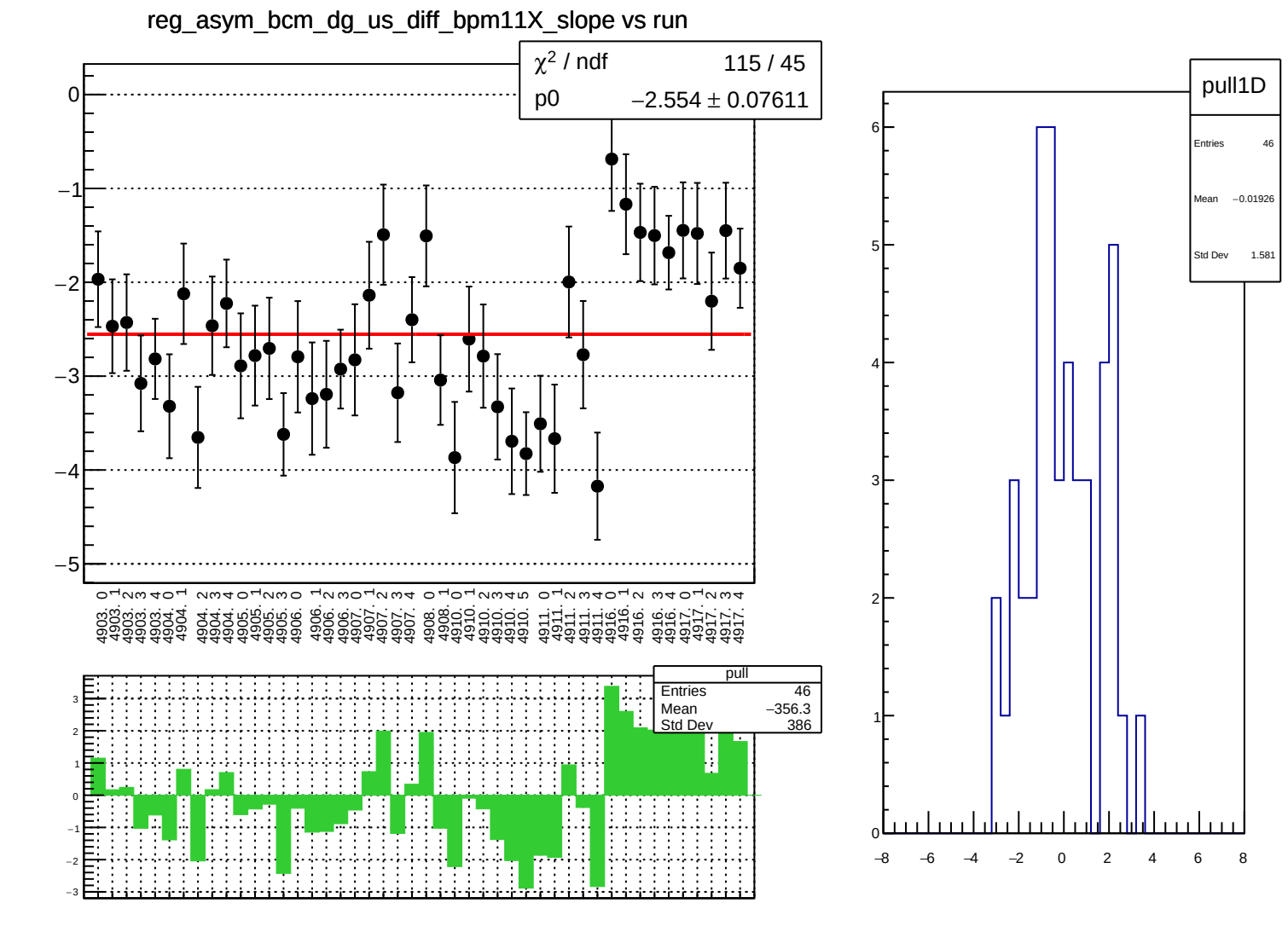

pull1D
Entries 46
Mean −0.01474
Std Dev 1.136

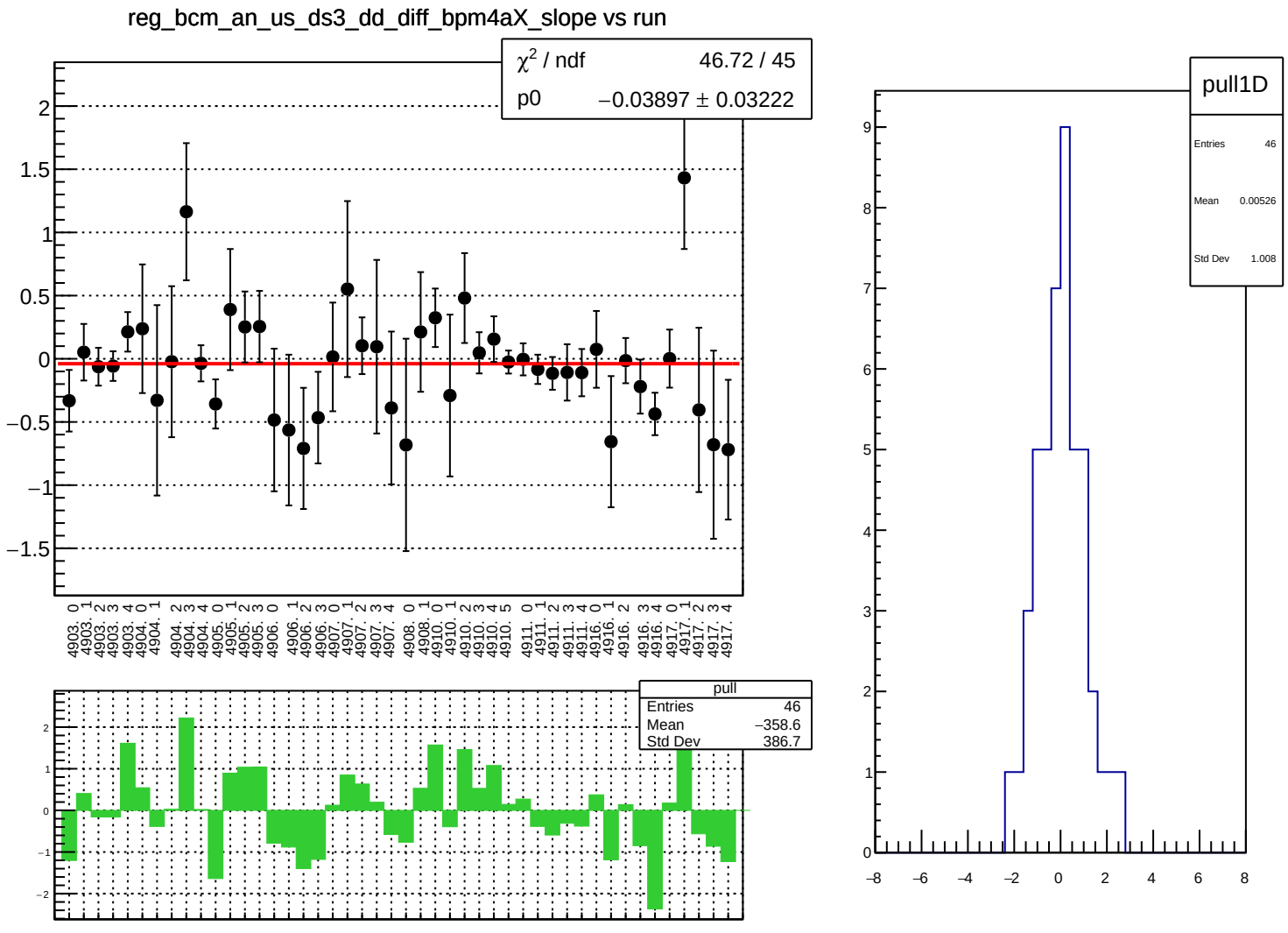

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 111.8 / 45
p0 14.54 ± 0.3359
pull
Entries 46
Mean −683.7
Std Dev 709.6
pull1D
Entries 46
Mean 0.0128
Std Dev 1.559

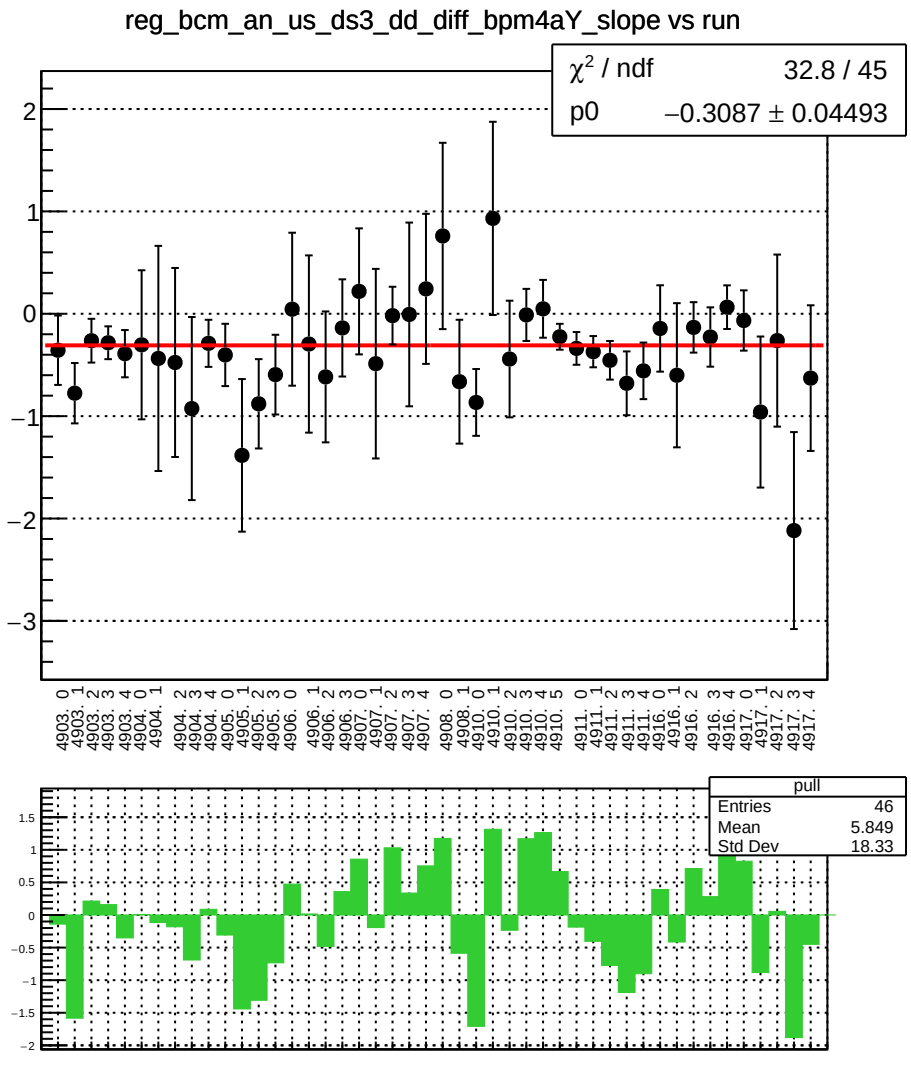

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 100.9 / 45
p0 −0.8178 ± 0.04913
pull
Entries 46
Mean −226.3
Std Dev 254.1

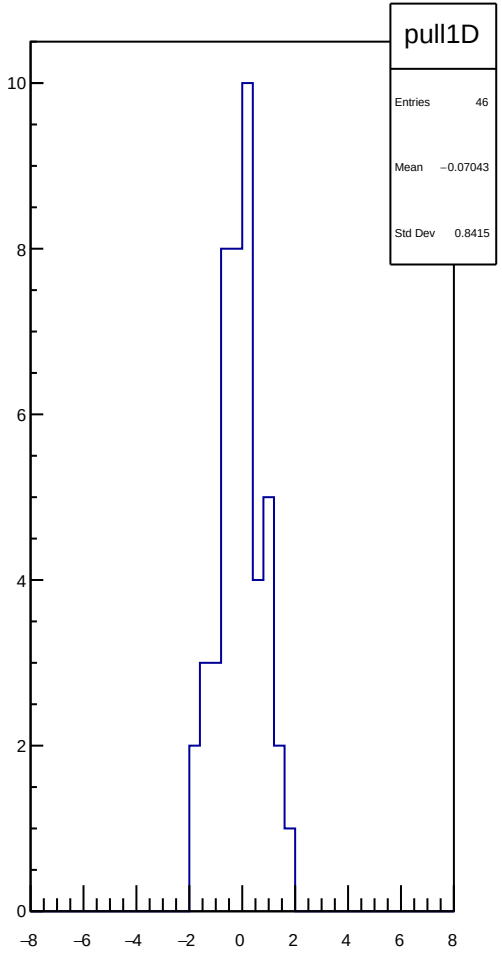

pull1D
Entries 46
Mean −0.02294
Std Dev 1.481

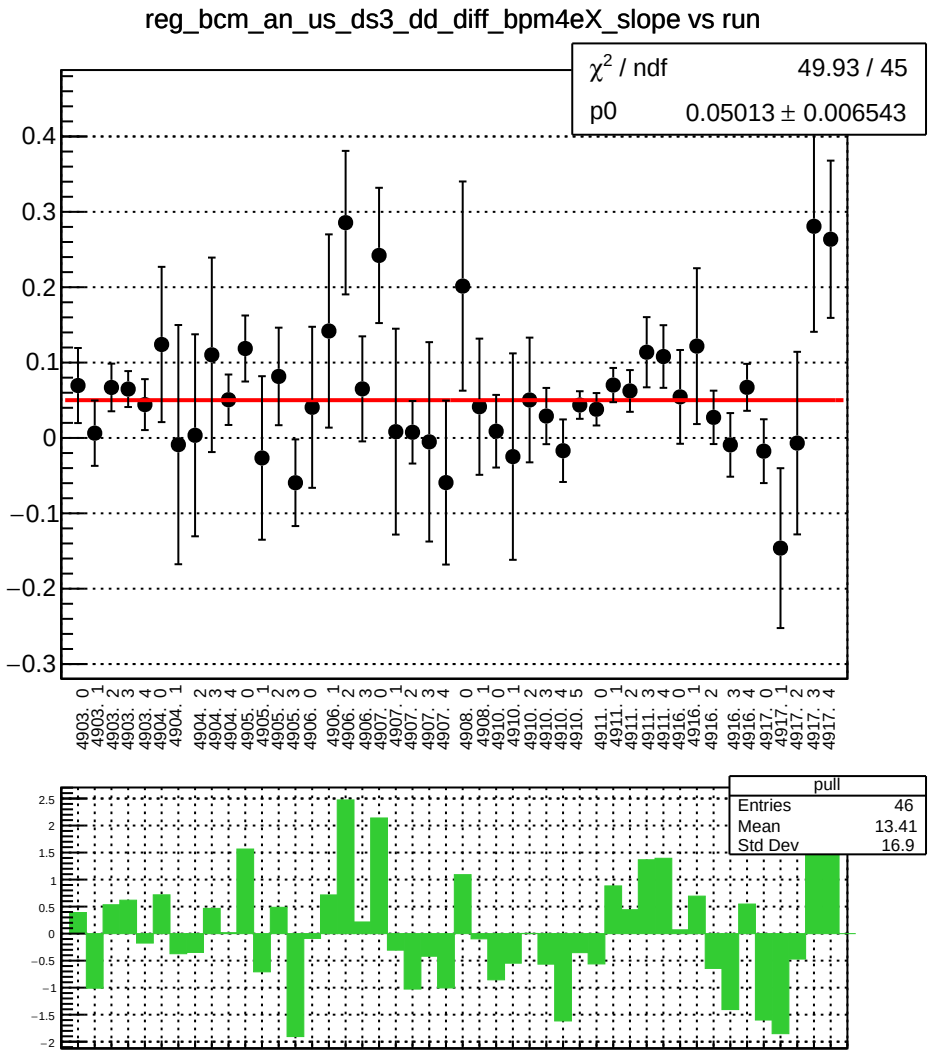

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 103 / 45
p0 −18.12 ± 0.3874
pull
Entries 46
Mean −327.1
Std Dev 352.5
pull1D
Entries 46
Mean −0.0219
Std Dev 1.496

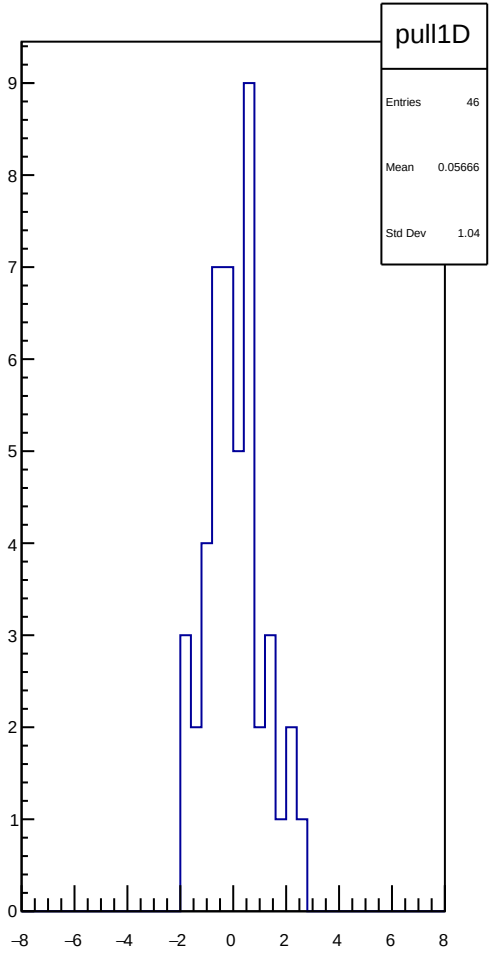

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 115 / 45
p0 −2.554 ± 0.07611
pull
Entries 46
Mean −356.3
Std Dev 386
pull1D
Entries 46
Mean −0.01926
Std Dev 1.581

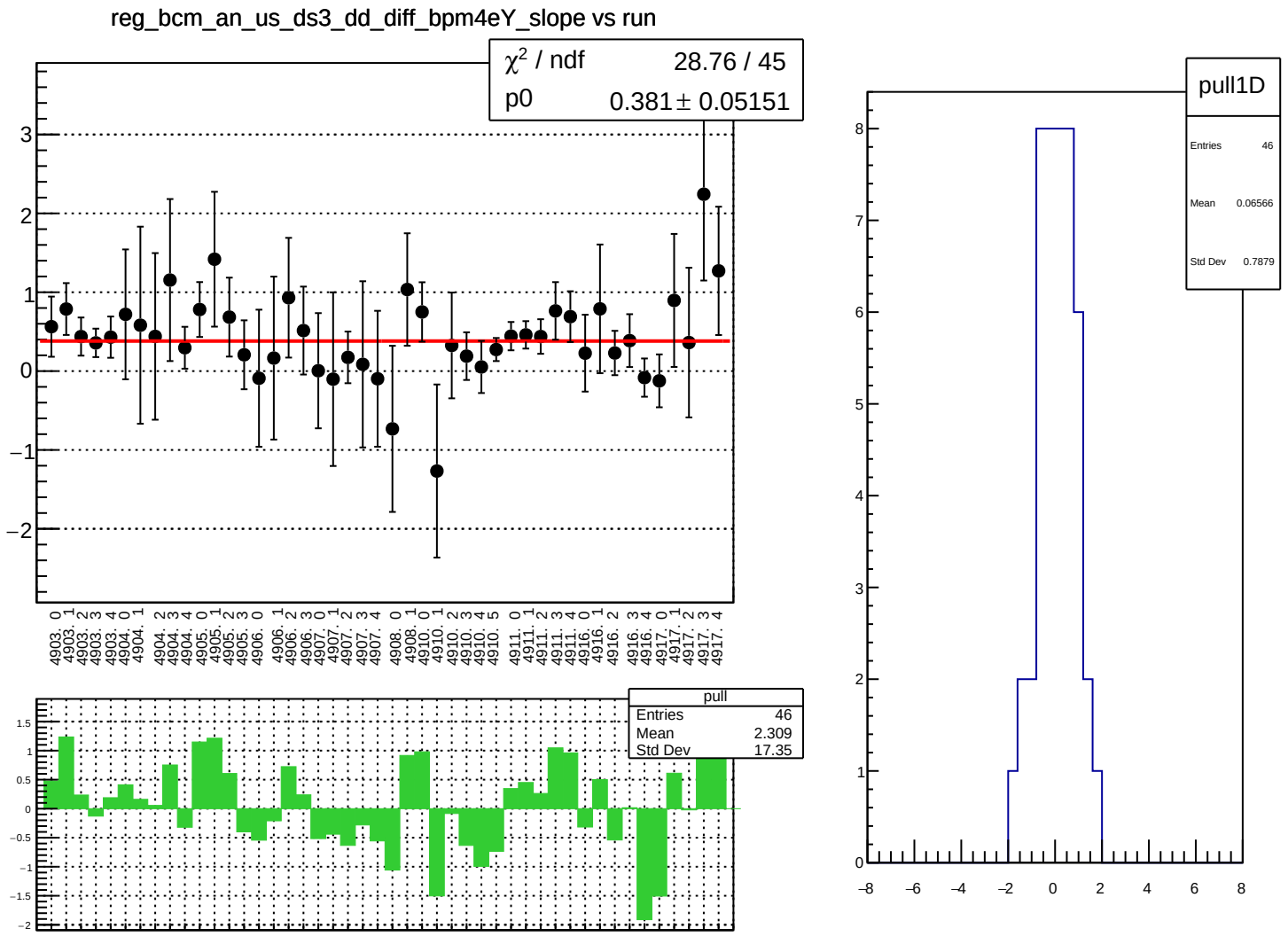

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.72 / 45
p0 −0.03897 ± 0.03222
pull
Entries 46
Mean −358.6
Std Dev 386.7
pull1D
Entries 46
Mean 0.00526
Std Dev 1.008

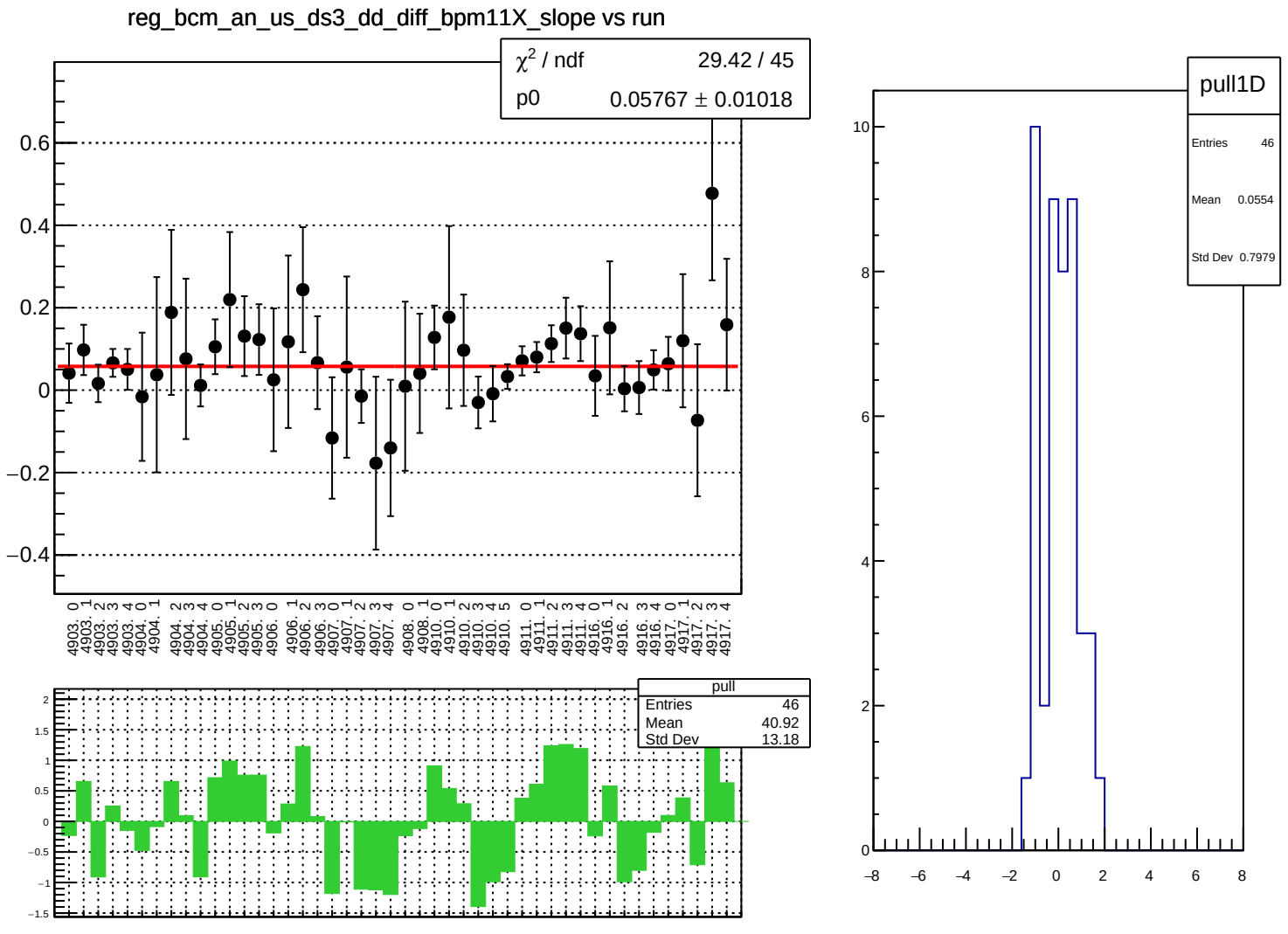

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.8 / 45
p0 −0.3087 ± 0.04493
pull
Entries 46
Mean 5.849
Std Dev 18.33

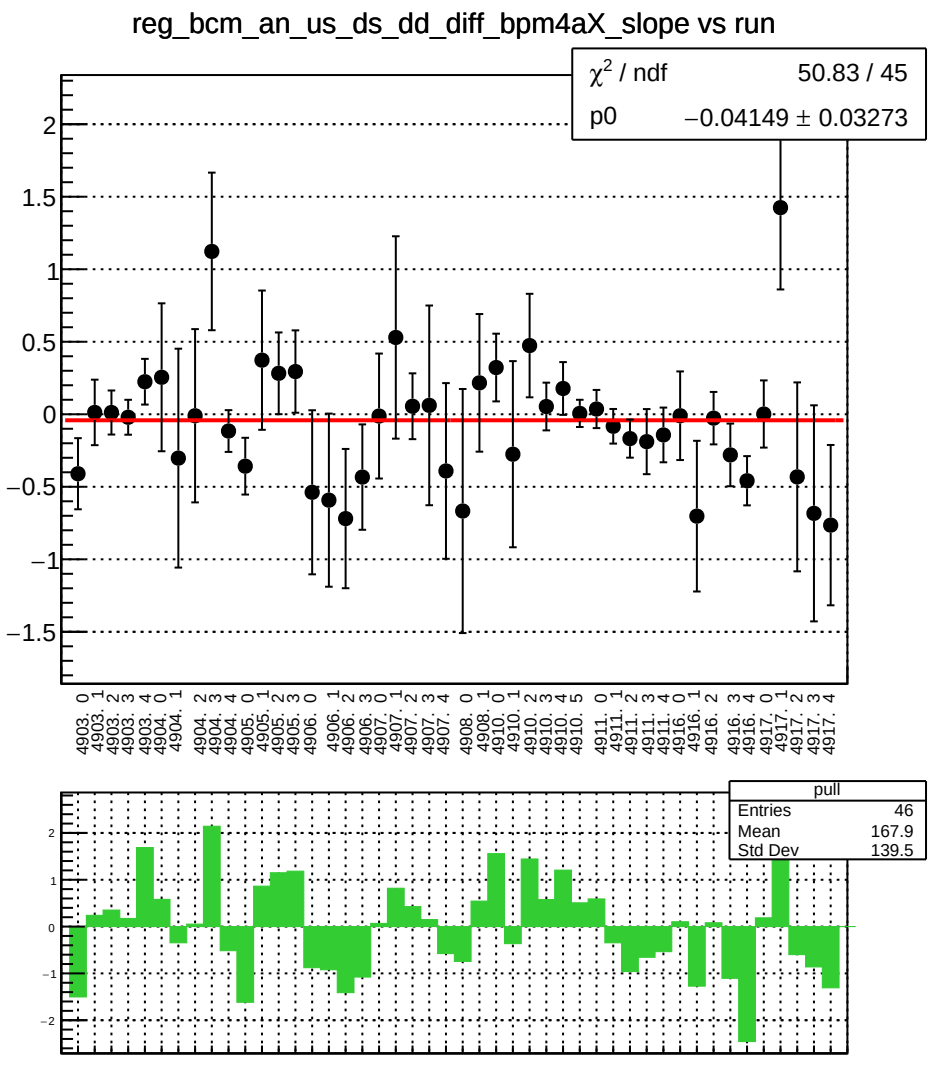

pull1D
Entries 46
Mean −0.07043
Std Dev 0.8415

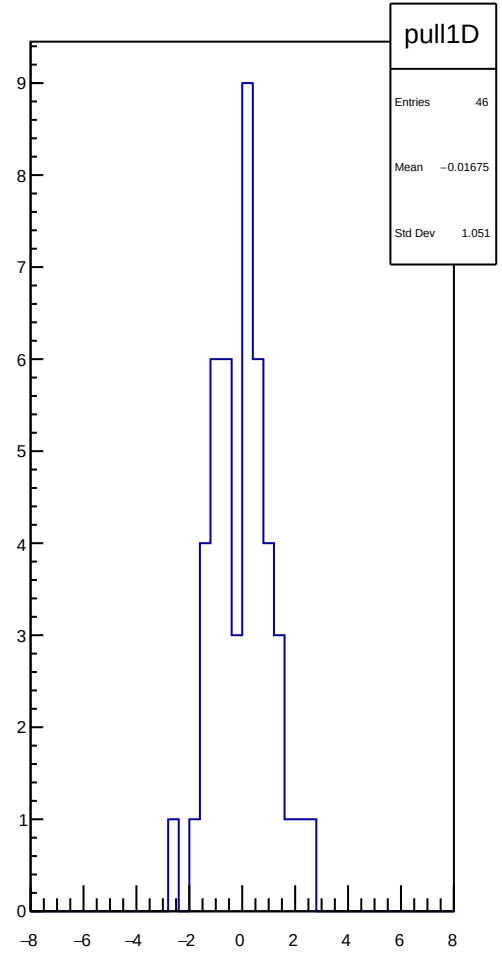

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.93 / 45
p0 0.05013 ± 0.006543
pull
Entries 46
Mean 13.41
Std Dev 16.9

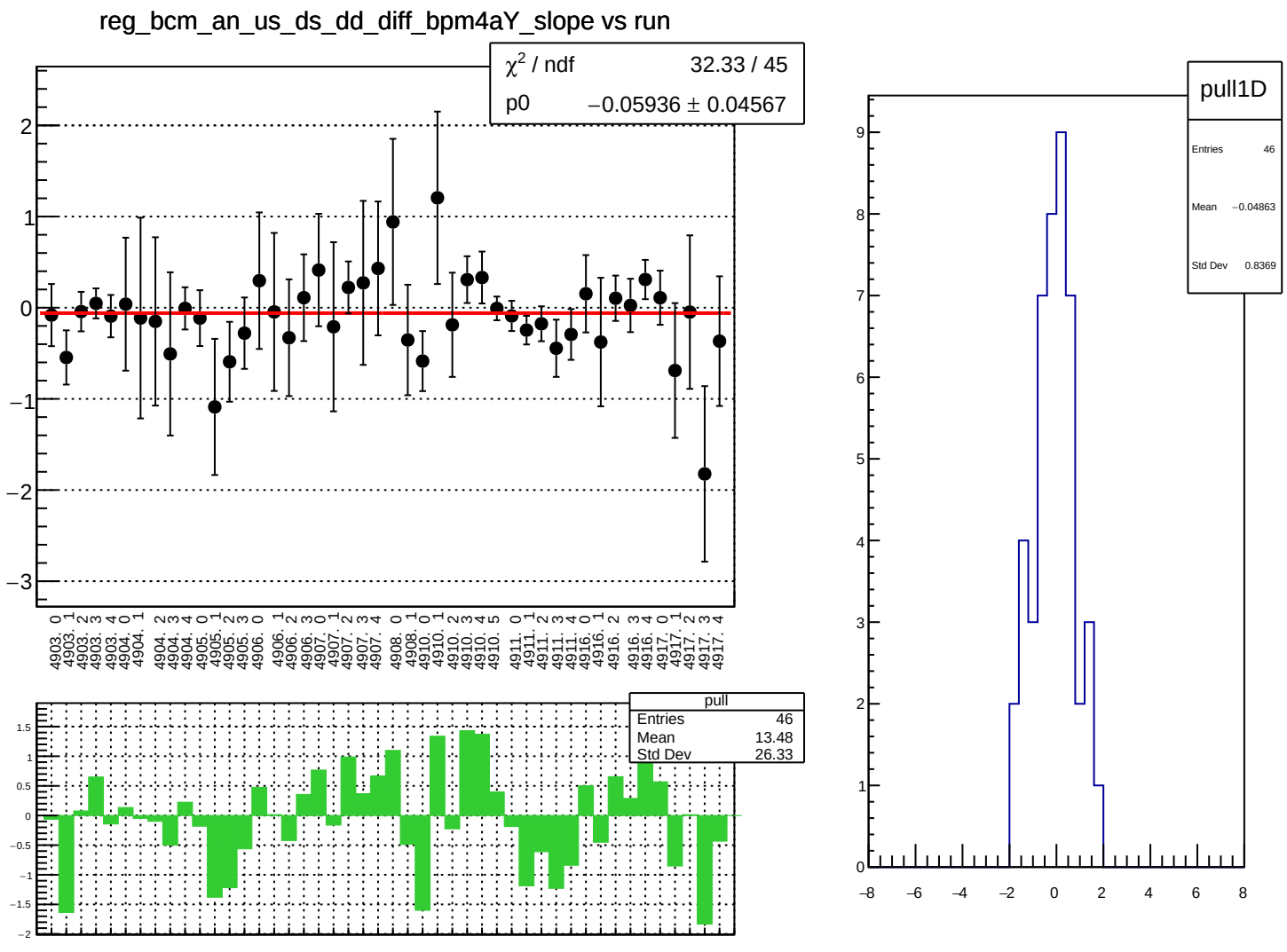

pull1D
Entries 46
Mean 0.05666
Std Dev 1.04

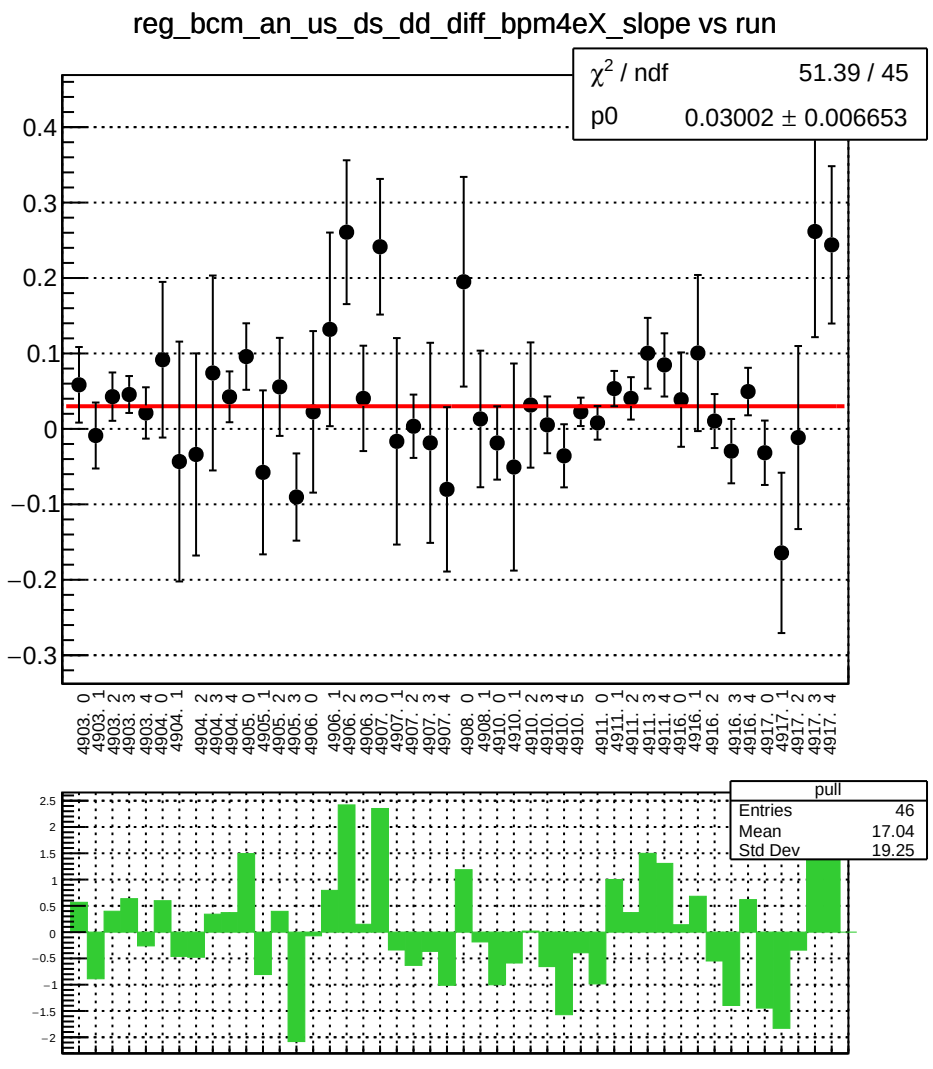

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.76 / 45
p0 0.381 ± 0.05151
pull
Entries 46
Mean 2.309
Std Dev 17.35
pull1D
Entries 46
Mean 0.06566
Std Dev 0.7879

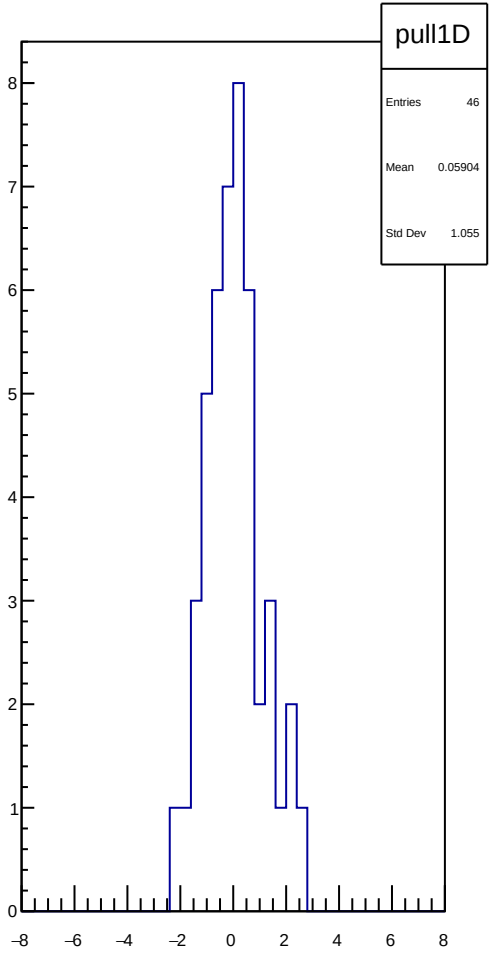

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 29.42 / 45
p0 0.05767 ± 0.01018
pull
Entries 46
Mean 40.92
Std Dev 13.18
pull1D
Entries 46
Mean 0.0554
Std Dev 0.7979

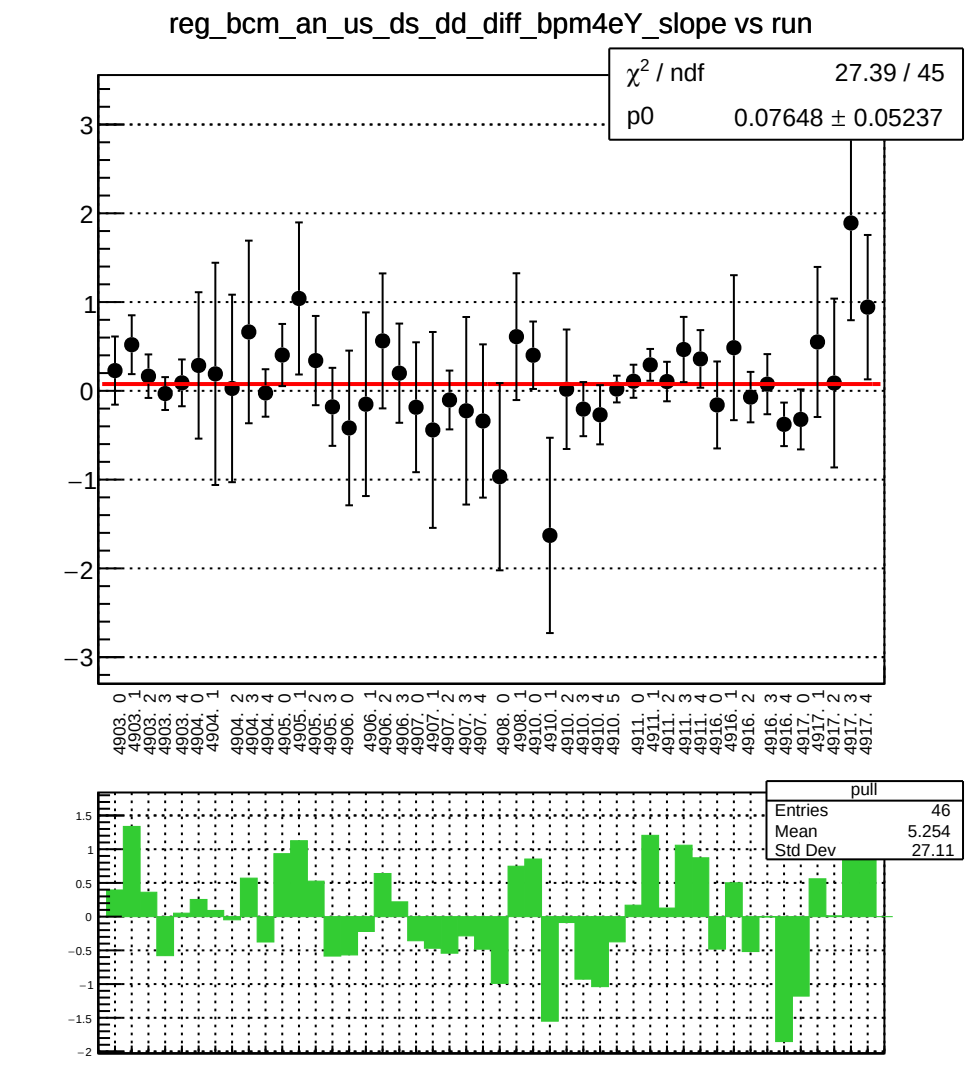

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.83 / 45
p0 −0.04149 ± 0.03273
pull
Entries 46
Mean 167.9
Std Dev 139.5

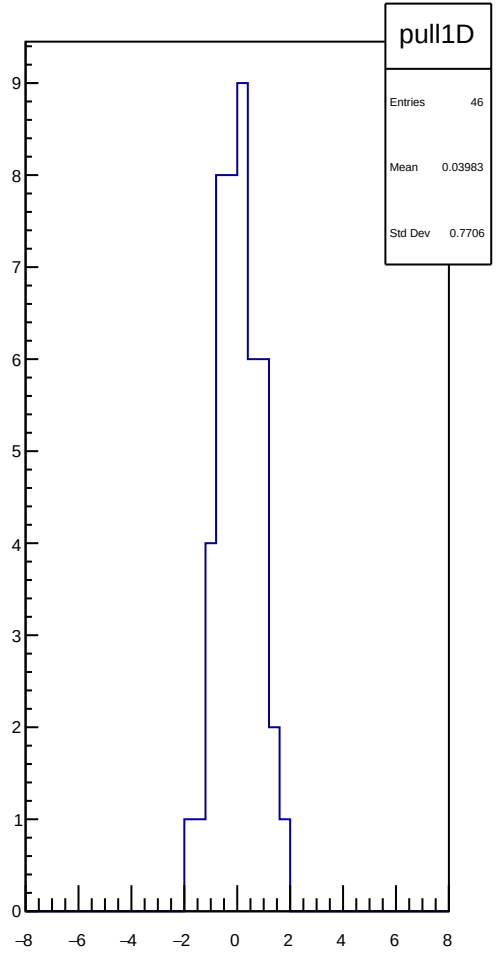

pull1D
Entries 46
Mean −0.01675
Std Dev 1.051

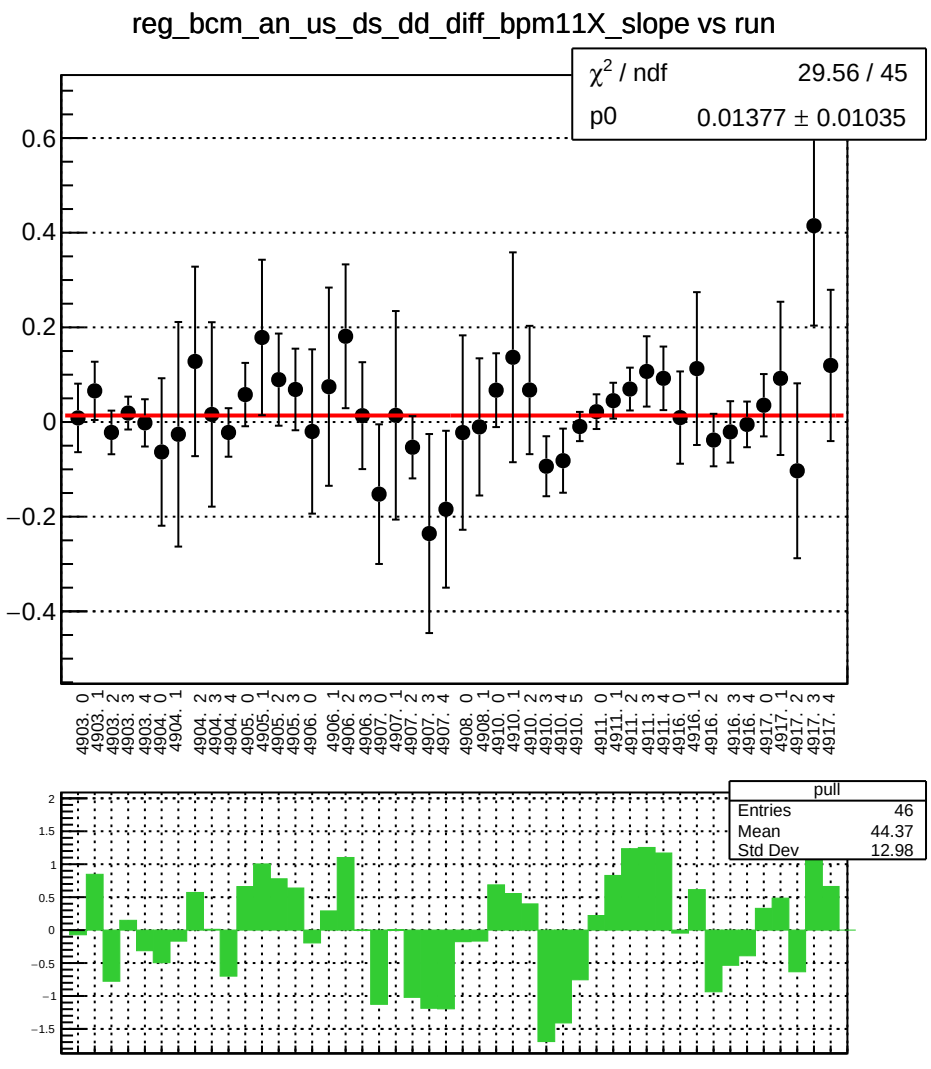

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.33 / 45
p0 −0.05936 ± 0.04567
pull
Entries 46
Mean 13.48
Std Dev 26.33
pull1D
Entries 46
Mean −0.04863
Std Dev 0.8369

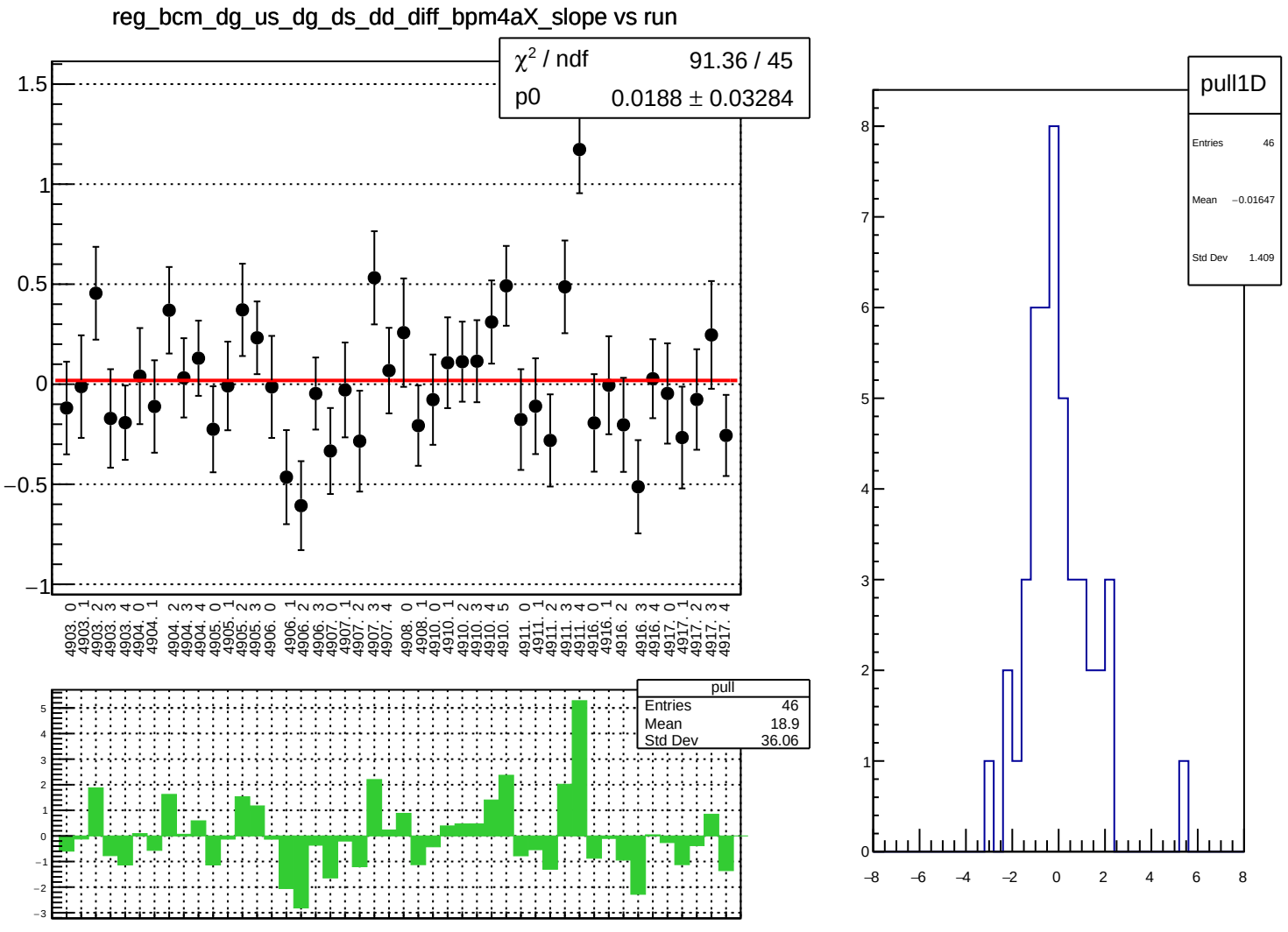

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.39 / 45
p0 0.03002 ± 0.006653
pull
Entries 46
Mean 17.04
Std Dev 19.25

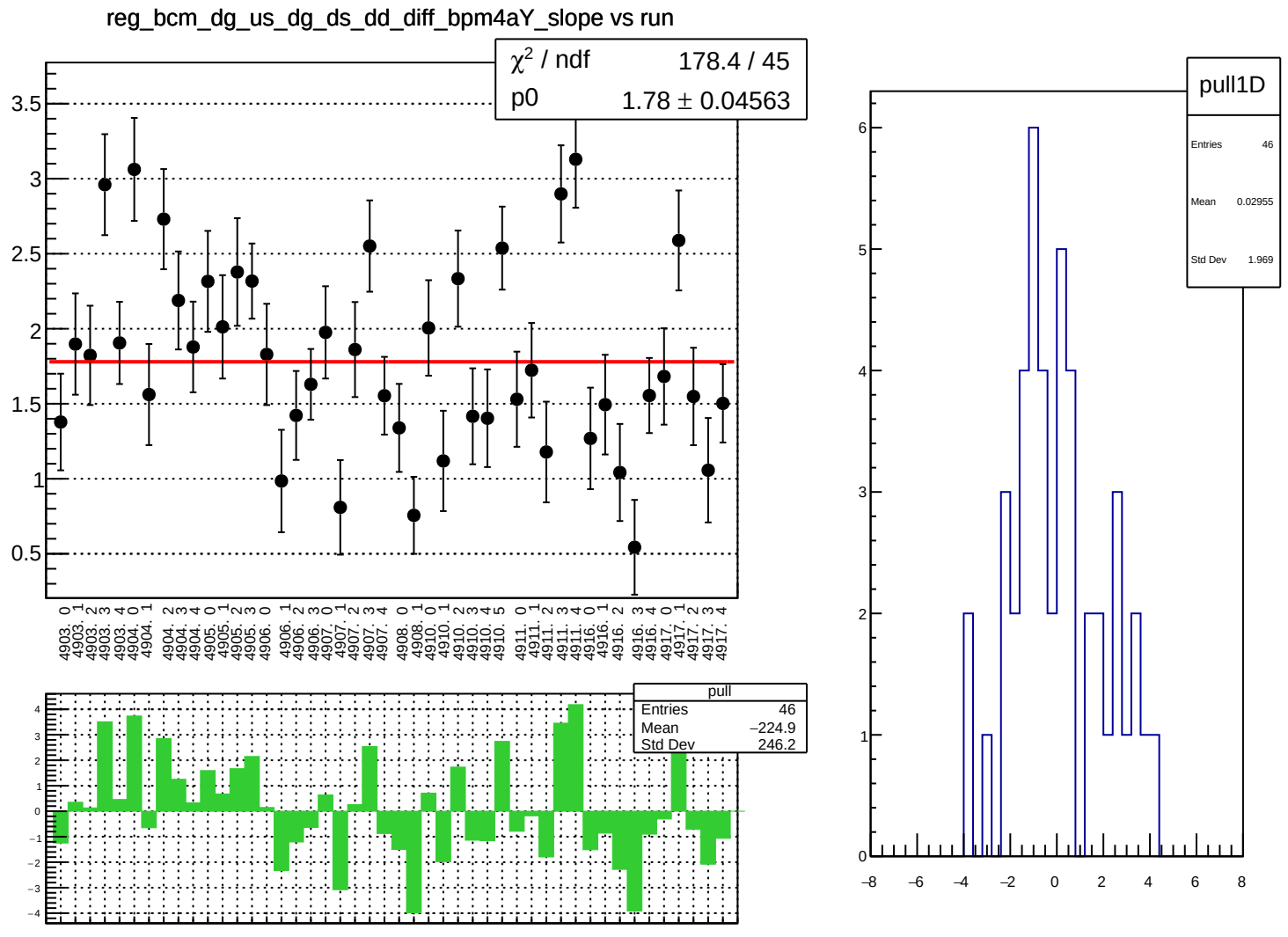

pull1D
Entries 46
Mean 0.05904
Std Dev 1.055

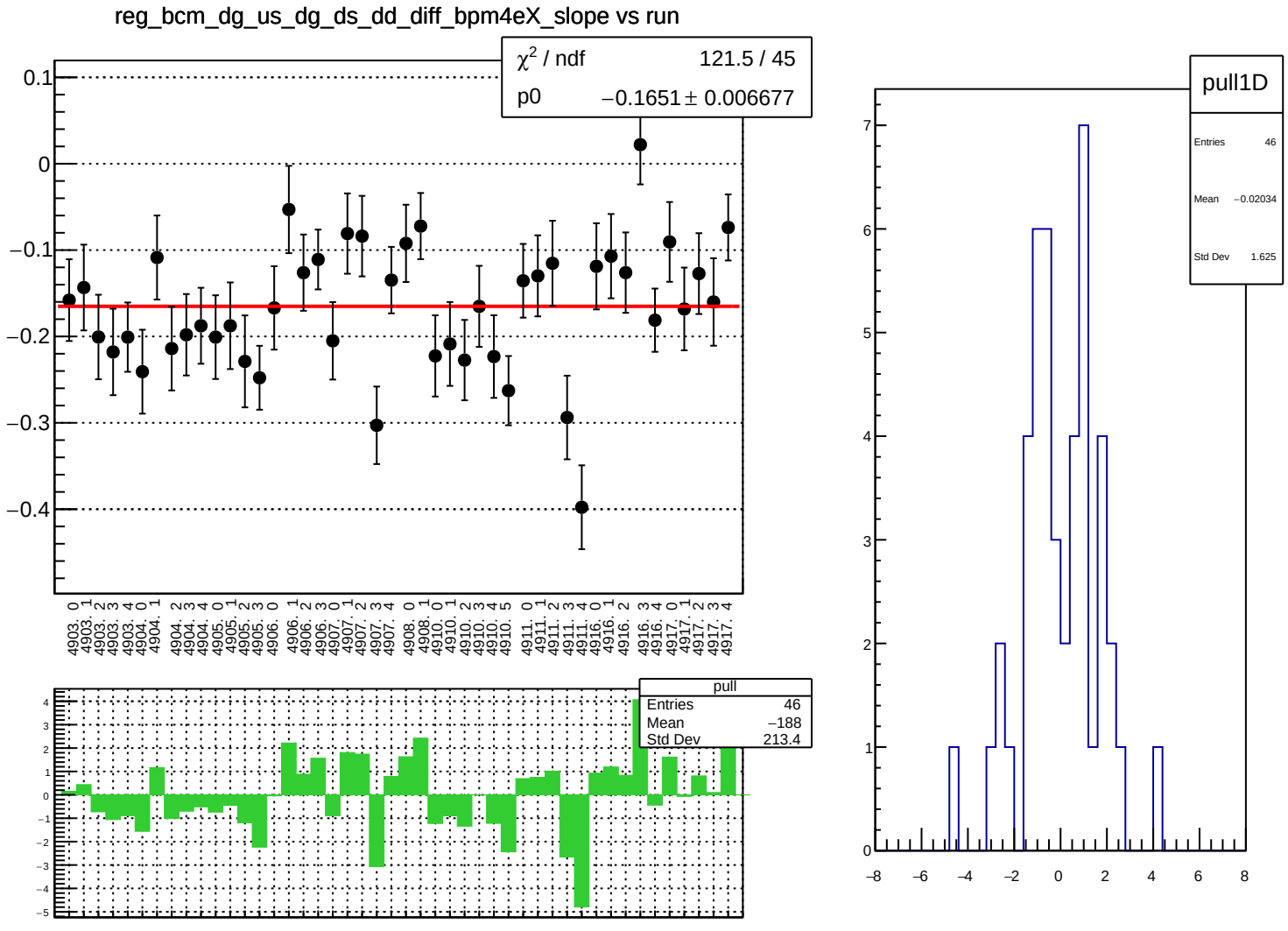

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.39 / 45
p0 0.07648 ± 0.05237
pull
Entries 46
Mean 5.254
Std Dev 27.11

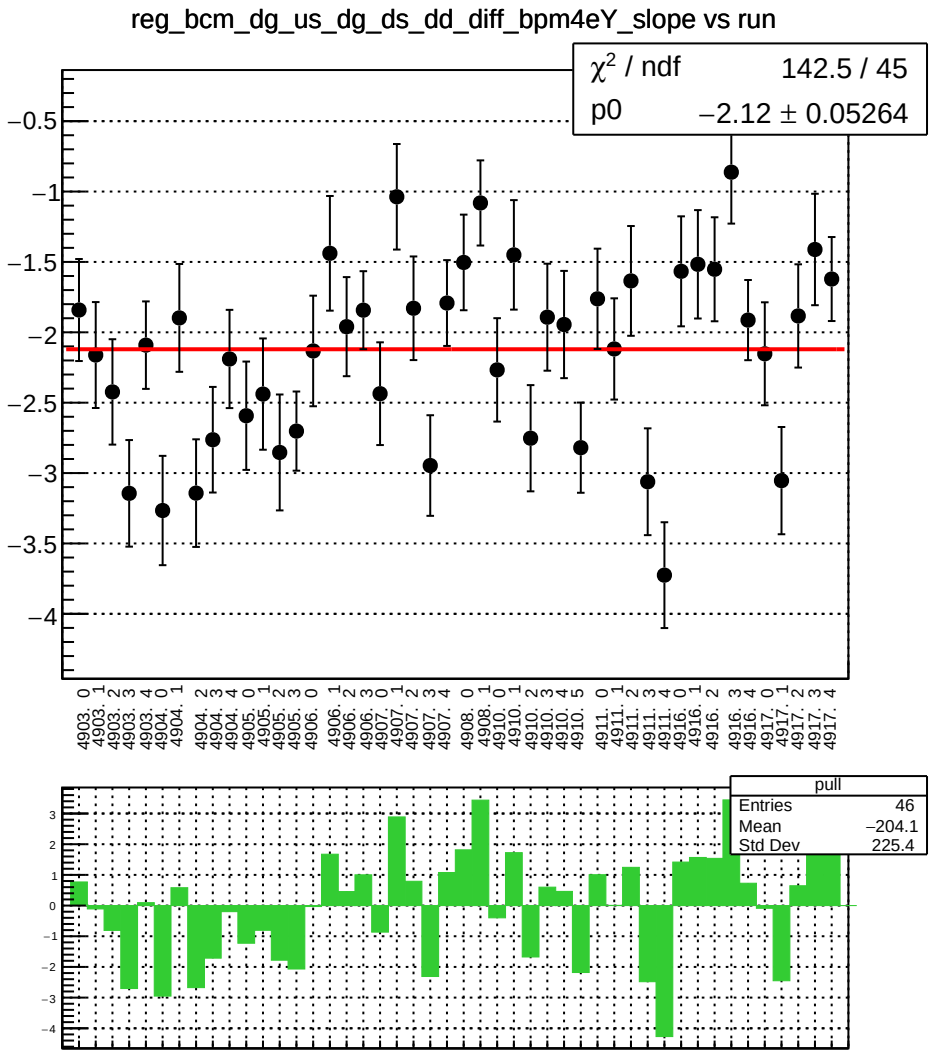

pull1D
Entries 46
Mean 0.03983
Std Dev 0.7706

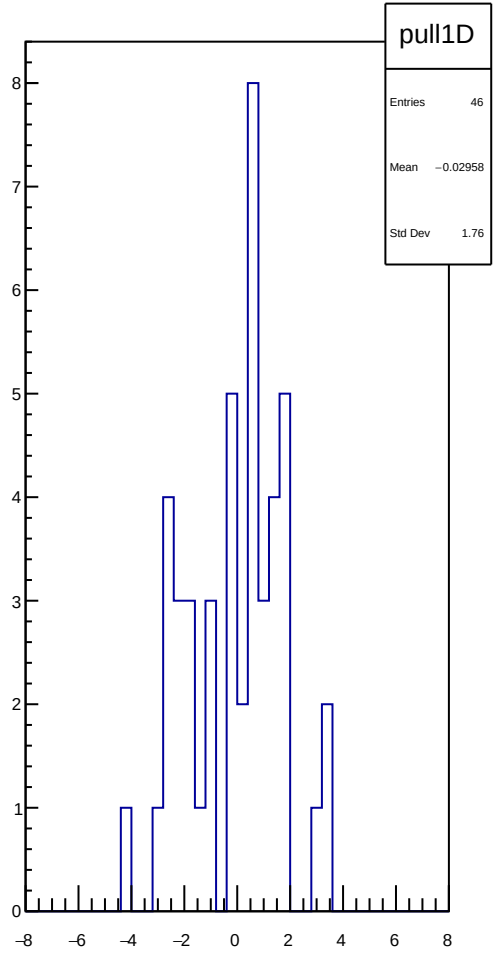

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 29.56 / 45
p0 0.01377 ± 0.01035
0.6
0.4
0.2
0
−0.2
−0.4
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 44.37
Std Dev 12.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.05243
Std Dev 0.7999
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

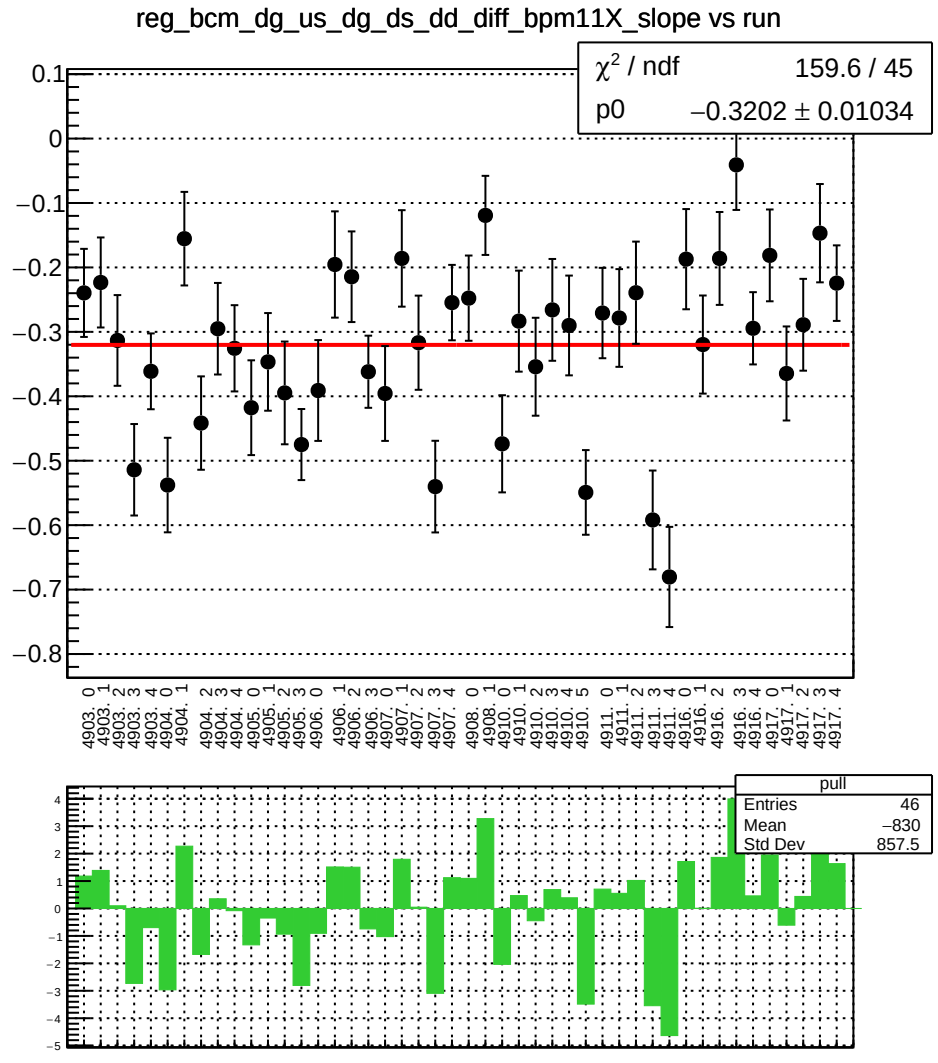

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 91.36 / 45
p0 0.0188 ± 0.03284
pull
Entries 46
Mean 18.9
Std Dev 36.06
pull1D
Entries 46
Mean −0.01647
Std Dev 1.409

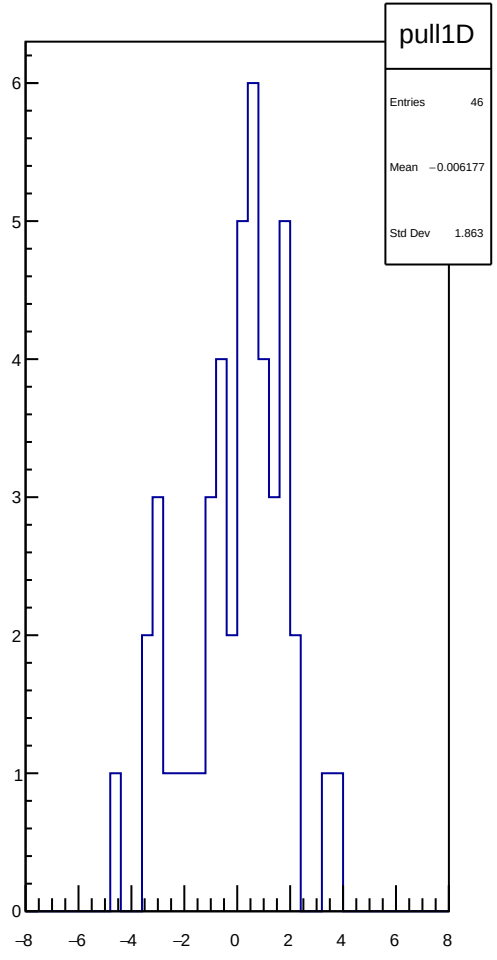

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 178.4 / 45
p0 1.78 ± 0.04563
pull
Entries 46
Mean −224.9
Std Dev 246.2
pull1D
Entries 46
Mean 0.02955
Std Dev 1.969

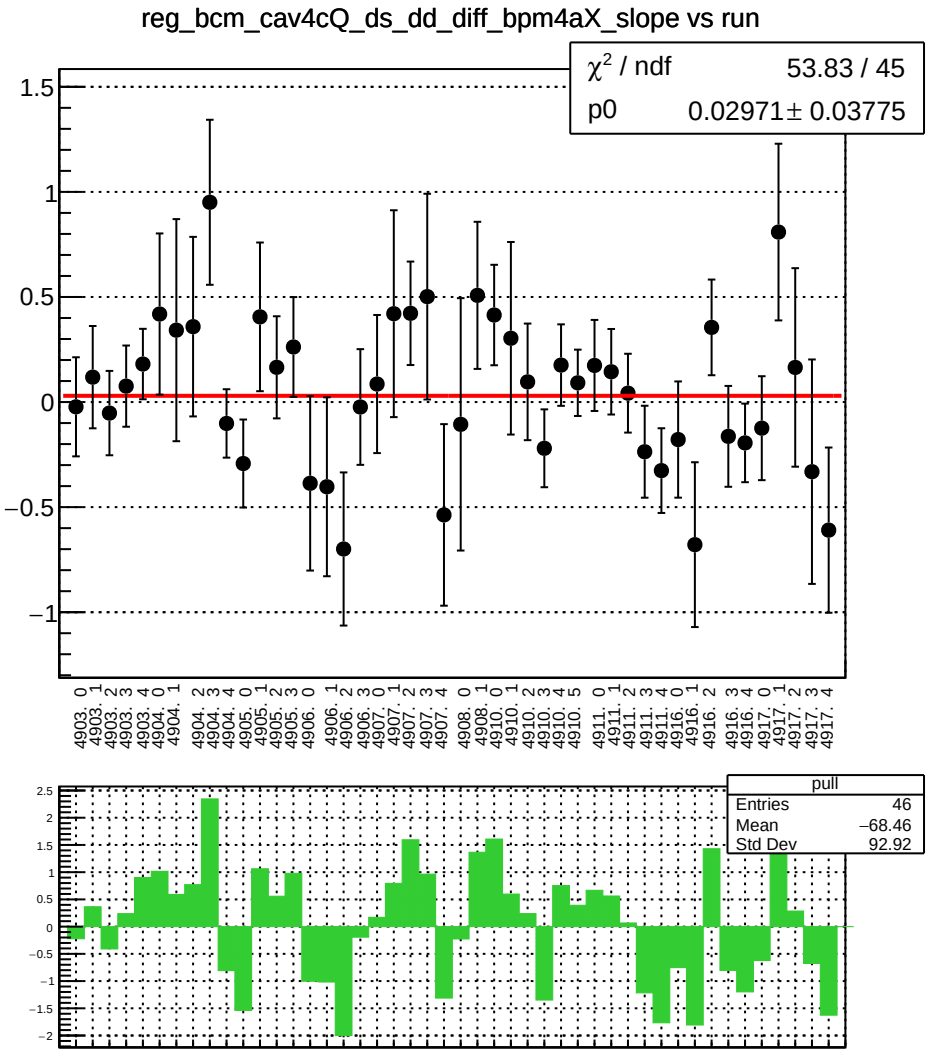

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 121.5 / 45
p0 −0.1651 ± 0.006677
pull
Entries 46
Mean −188
Std Dev 213.4
pull1D
Entries 46
Mean −0.02034
Std Dev 1.625

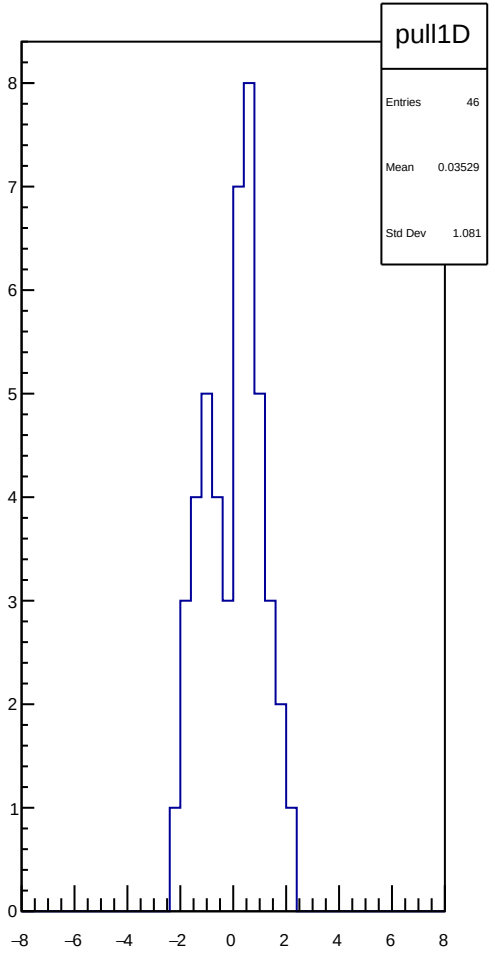

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 142.5 / 45
p0 −2.12 ± 0.05264
pull
Entries 46
Mean −204.1
Std Dev 225.4

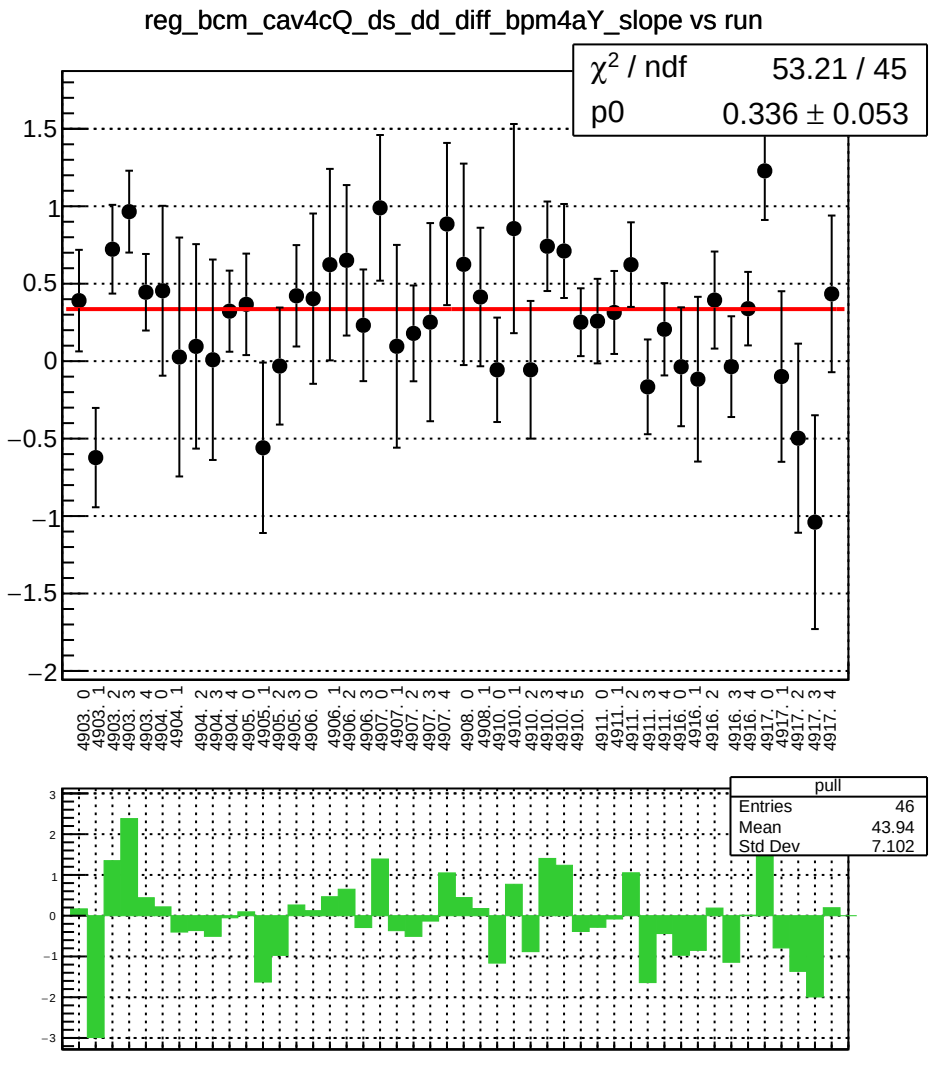

pull1D
Entries 46
Mean −0.02958
Std Dev 1.76

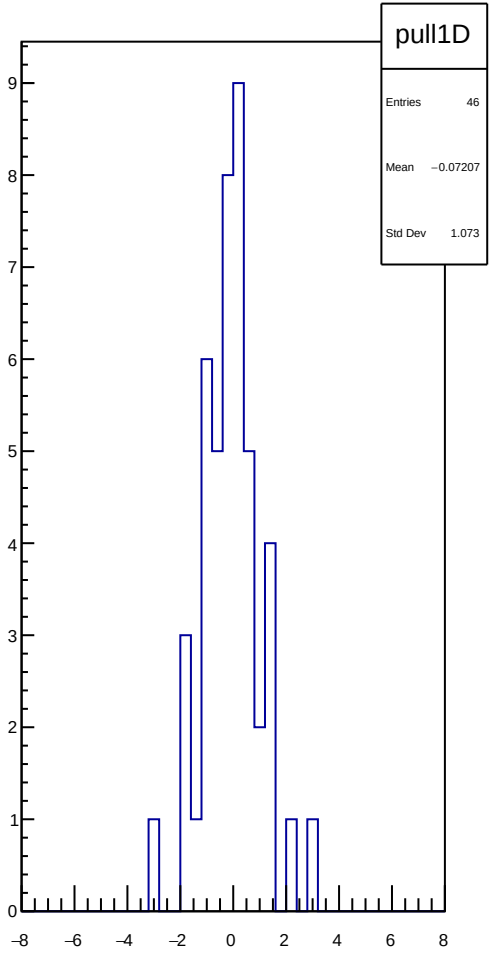

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 159.6 / 45
p0 −0.3202 ± 0.01034
pull
Entries 46
Mean −830
Std Dev 857.5

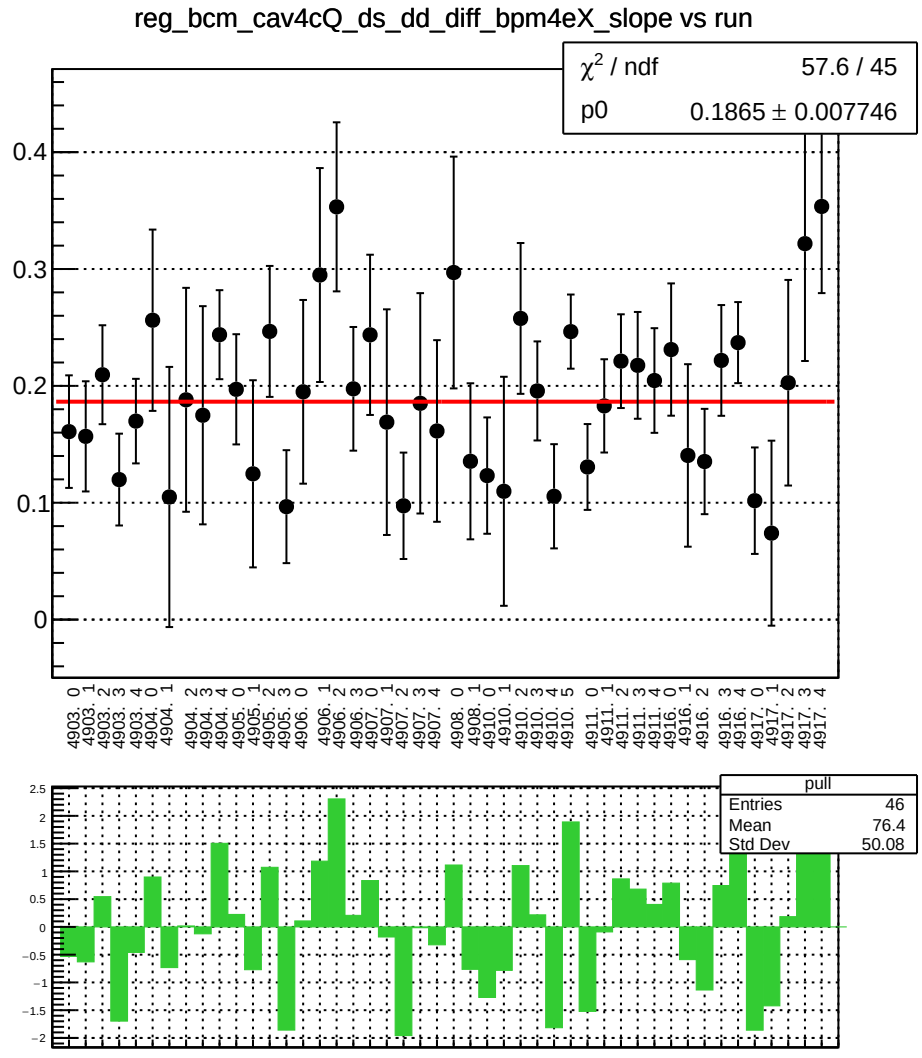

pull1D
Entries 46
Mean −0.006177
Std Dev 1.863

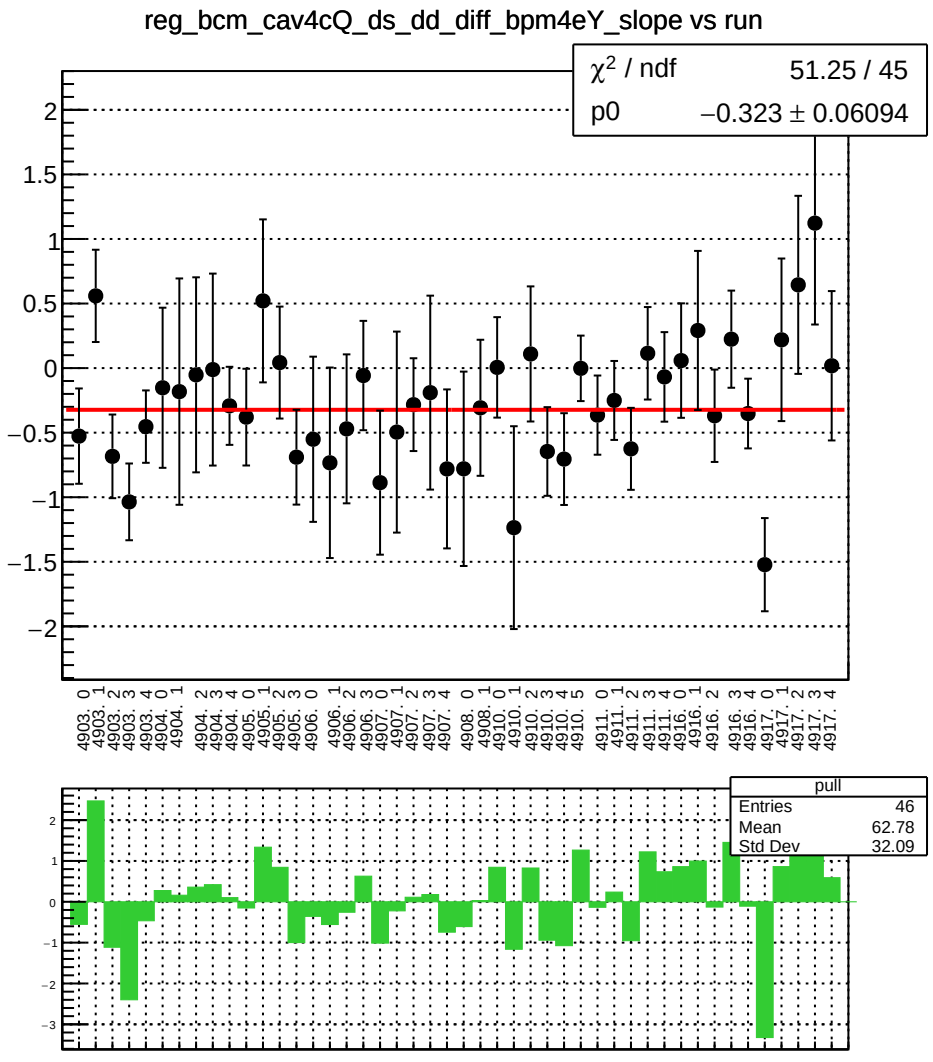

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 53.83 / 45
p0 0.02971± 0.03775
pull
Entries 46
Mean −68.46
Std Dev 92.92

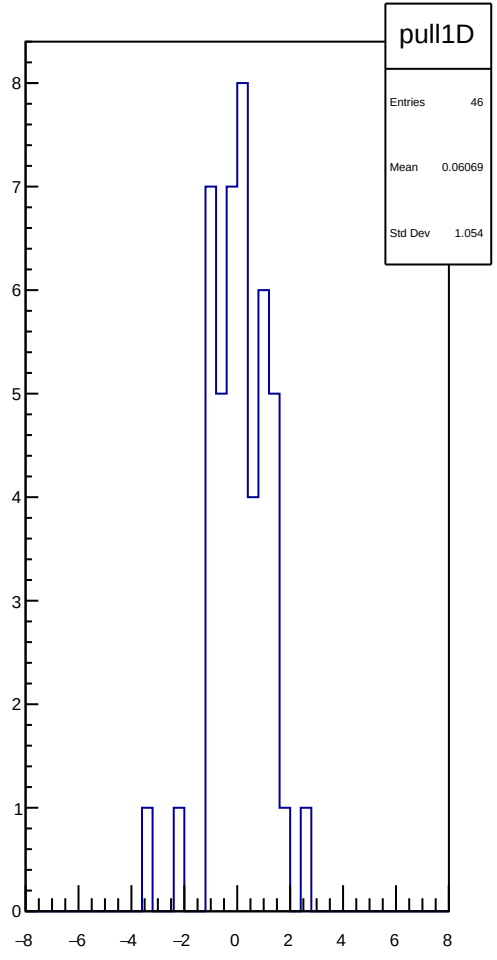

pull1D
Entries 46
Mean 0.03529
Std Dev 1.081

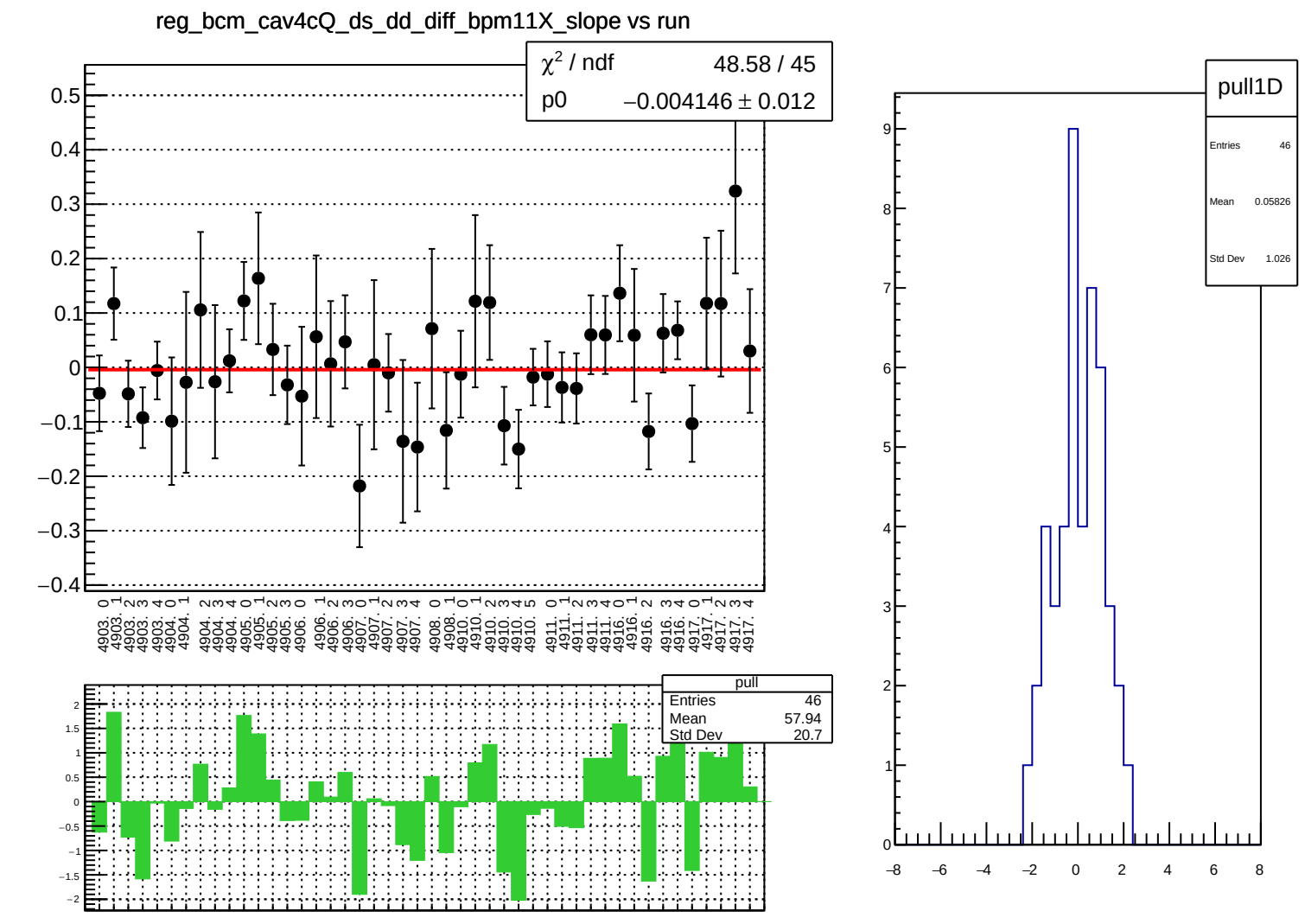

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.21 / 45
p0 0.336 ± 0.053
pull
Entries 46
Mean 43.94
Std Dev 7.102

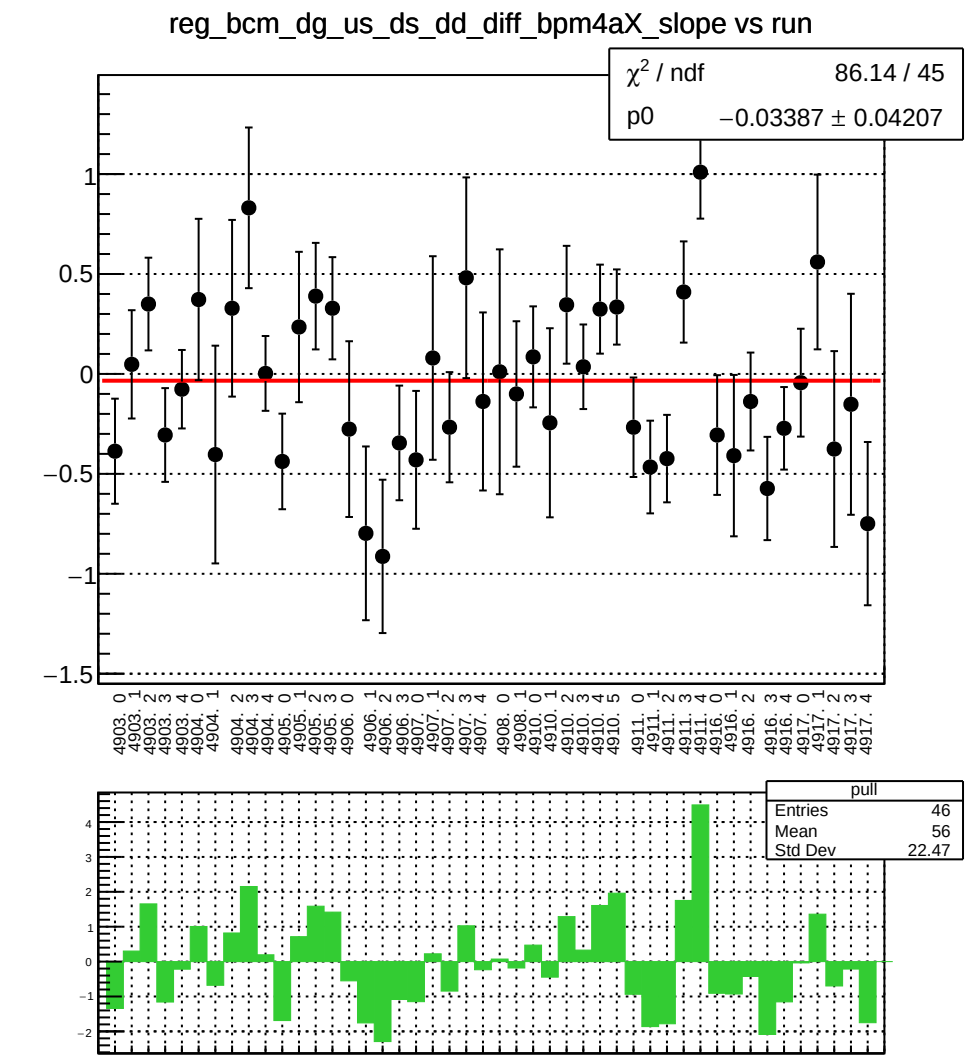

pull1D
Entries 46
Mean −0.07207
Std Dev 1.073

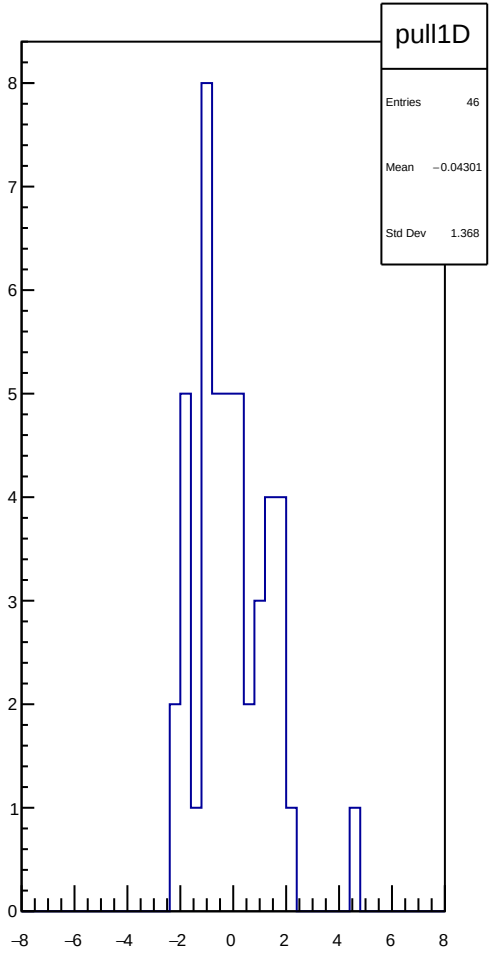

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.6 / 45
p0 0.1865 ± 0.007746
0.4
0.3
0.2
0.1
0
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 76.4
Std Dev 50.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03085
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

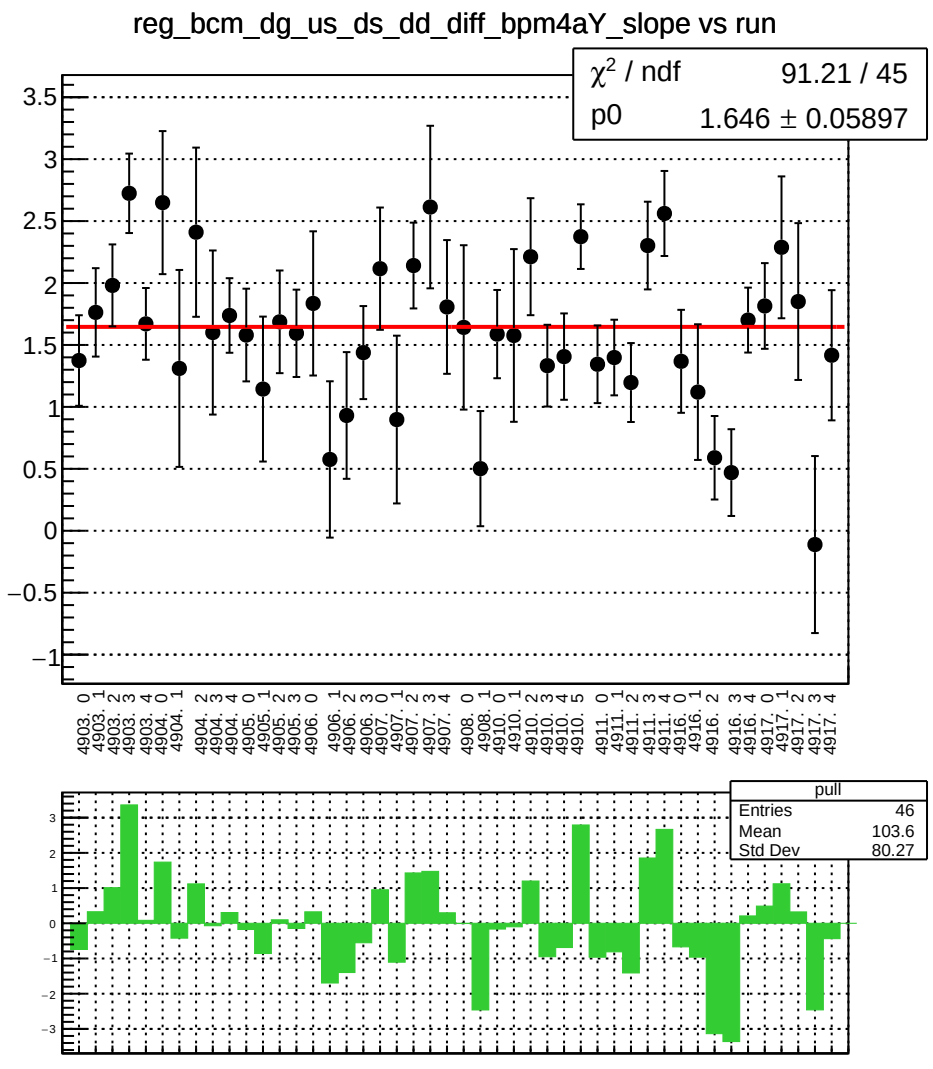

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.25 / 45
p0 −0.323 ± 0.06094
pull
Entries 46
Mean 62.78
Std Dev 32.09

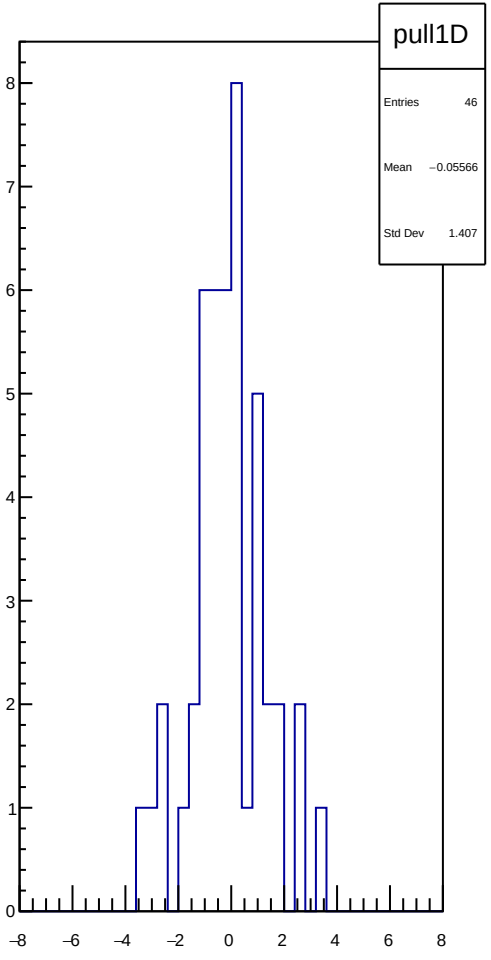

pull1D
Entries 46
Mean 0.06069
Std Dev 1.054

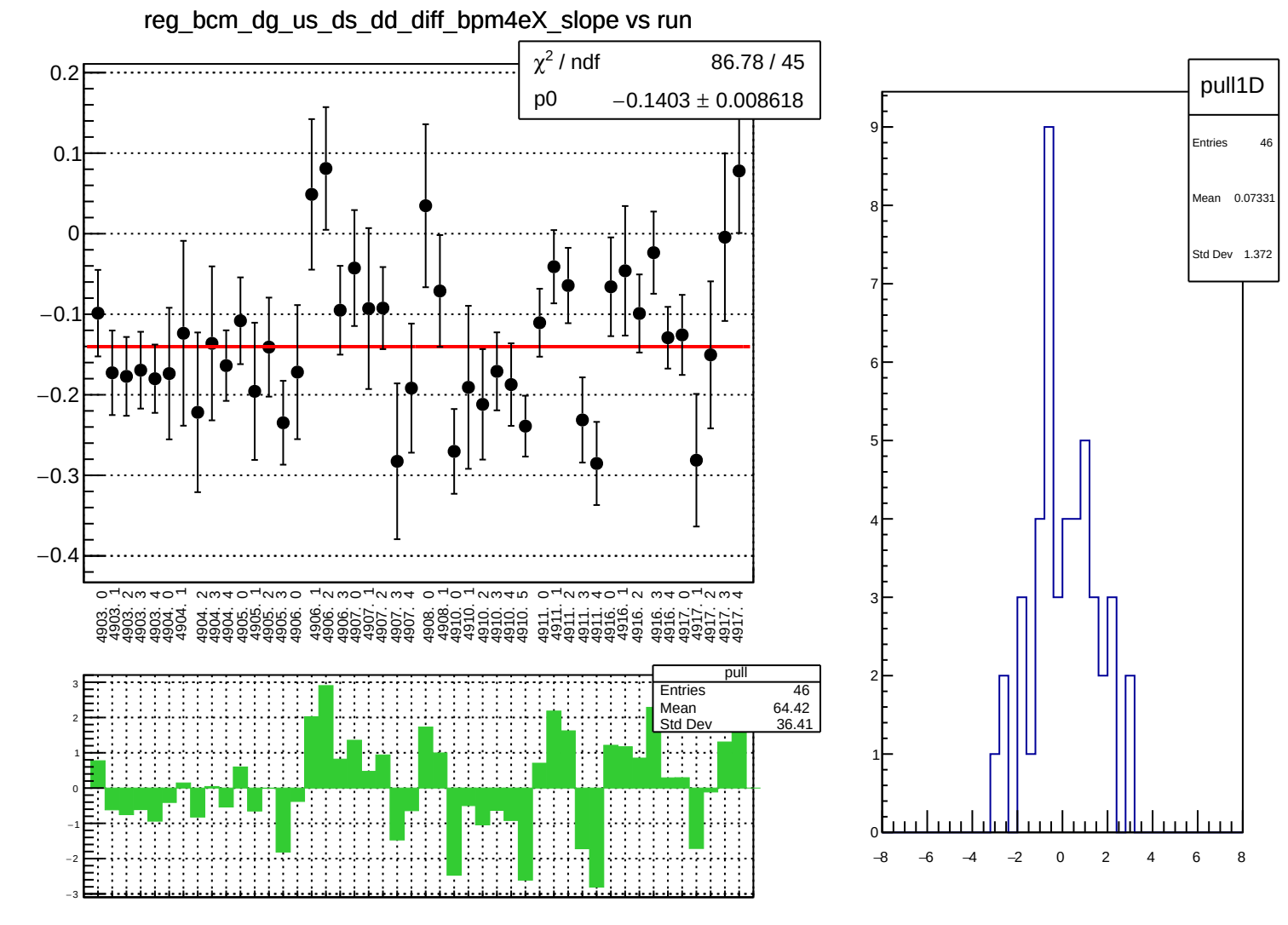

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 48.58 / 45
p0 −0.004146 ± 0.012
pull
Entries 46
Mean 57.94
Std Dev 20.7
pull1D
Entries 46
Mean 0.05826
Std Dev 1.026

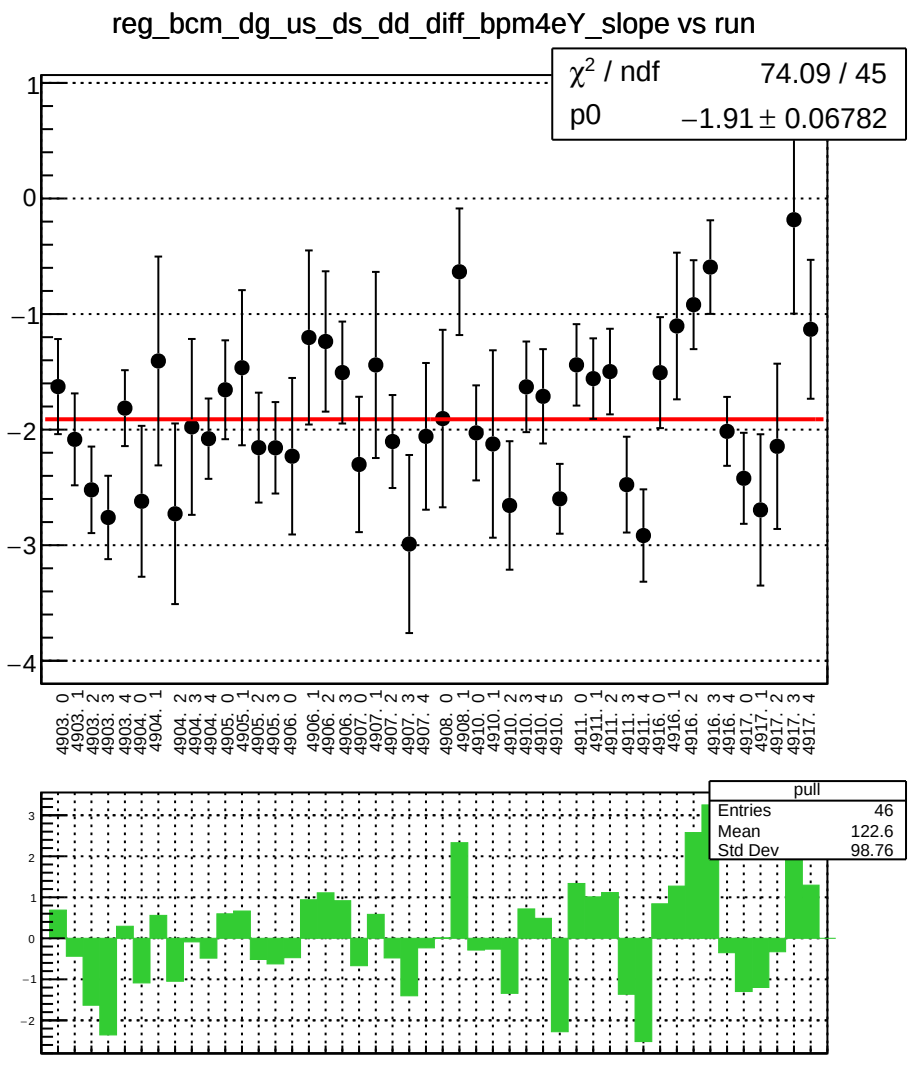

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 86.14 / 45
p0 −0.03387 ± 0.04207
pull
Entries 46
Mean 56
Std Dev 22.47

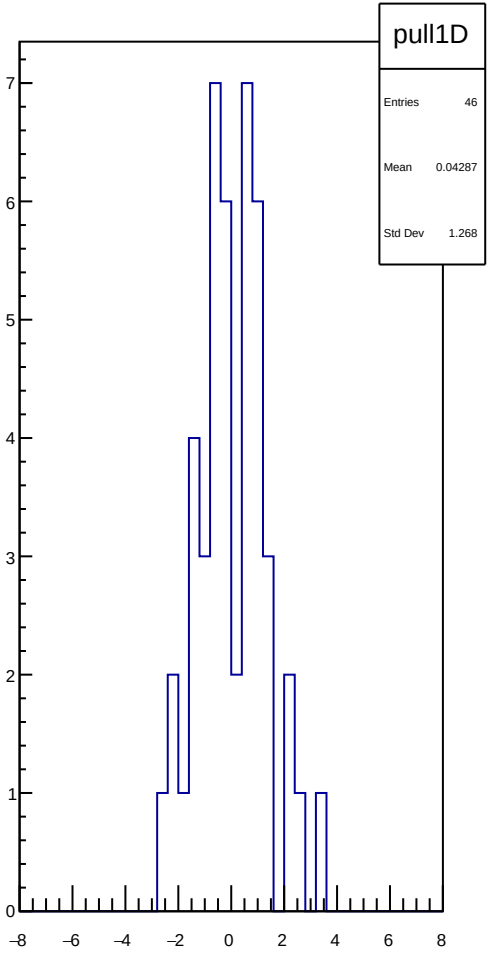

pull1D
Entries 46
Mean −0.04301
Std Dev 1.368

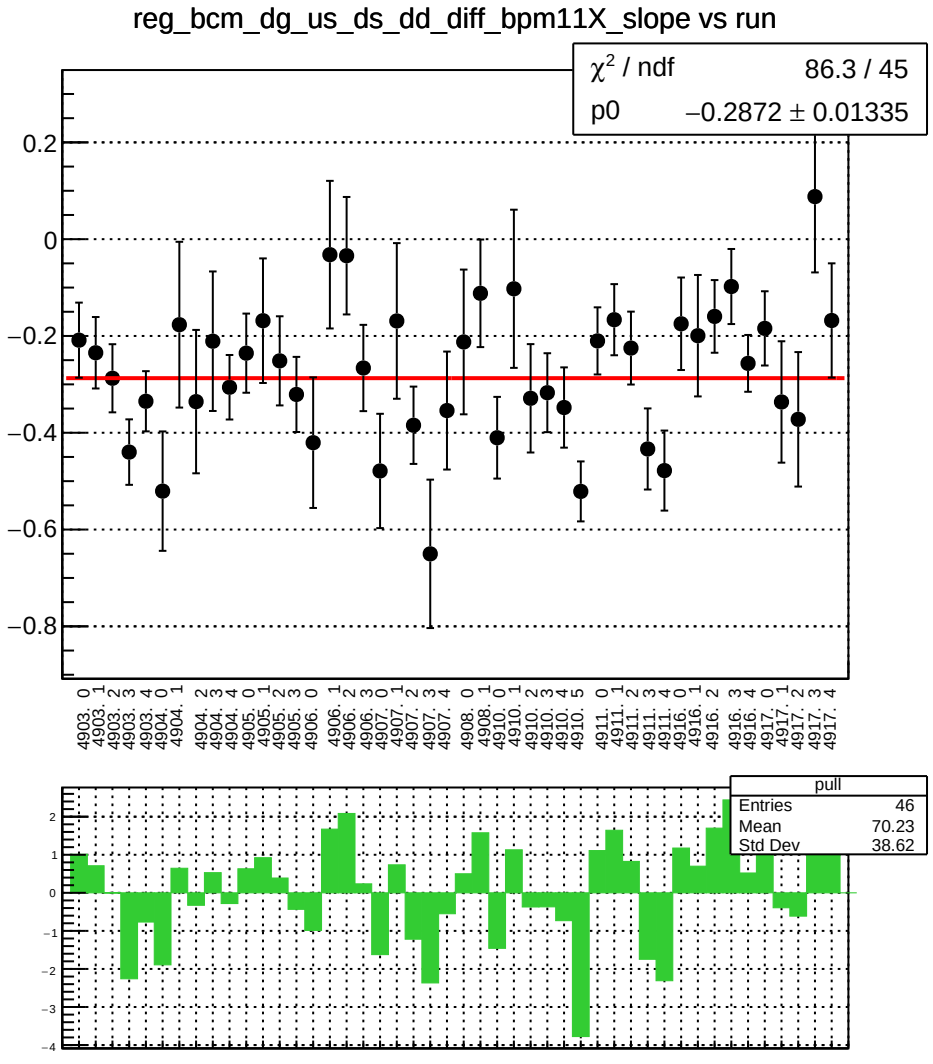

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.21 / 45
p0 1.646 ± 0.05897
pull
Entries 46
Mean 103.6
Std Dev 80.27

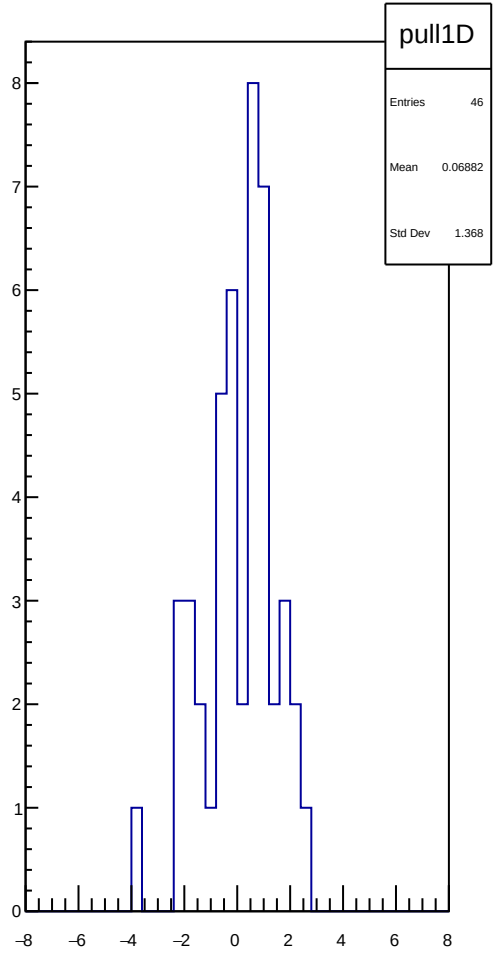

pull1D
Entries 46
Mean −0.05566
Std Dev 1.407

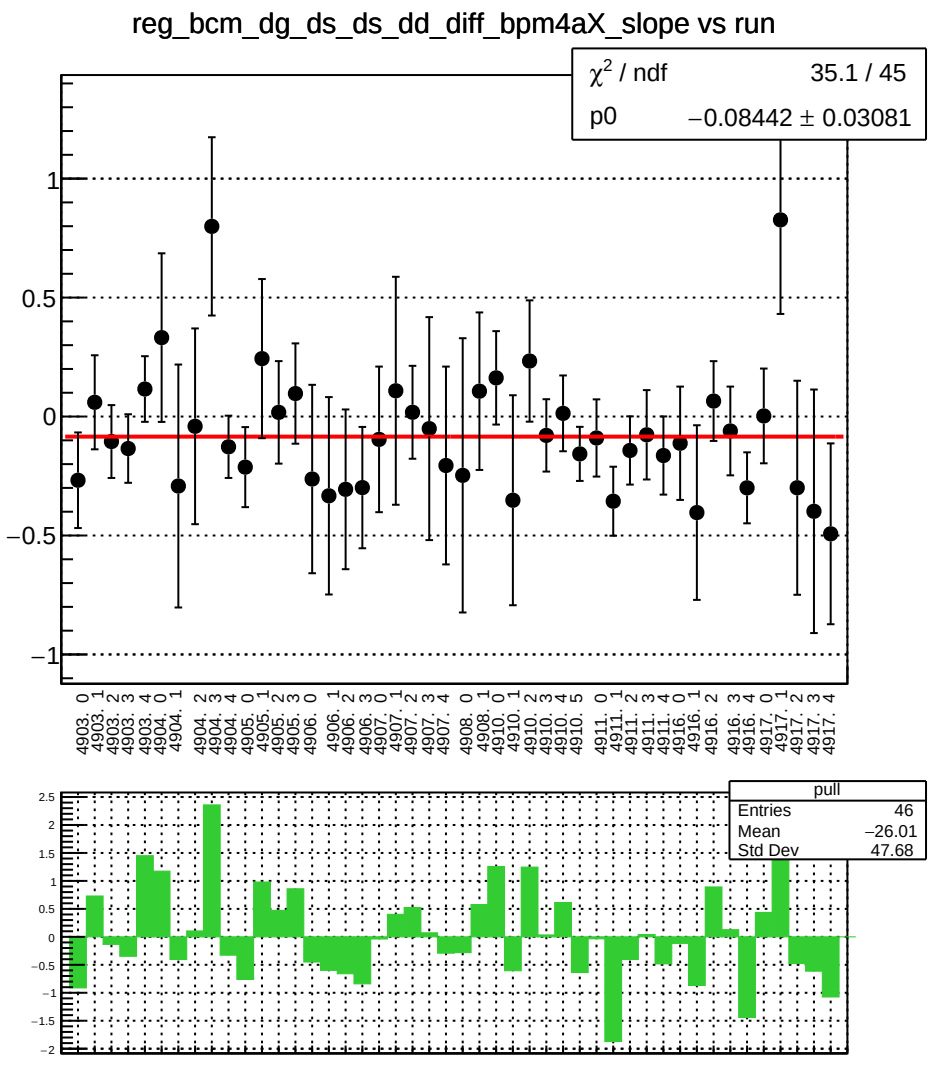

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.78 / 45
p0 −0.1403 ± 0.008618
pull
Entries 46
Mean 64.42
Std Dev 36.41
pull1D
Entries 46
Mean 0.07331
Std Dev 1.372

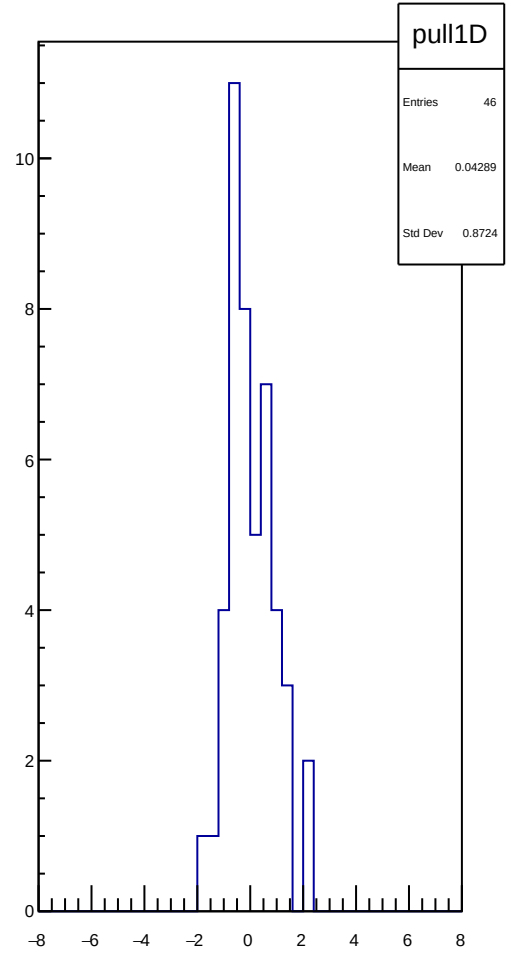

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.09 / 45
p0 −1.91 ± 0.06782
pull
Entries 46
Mean 122.6
Std Dev 98.76

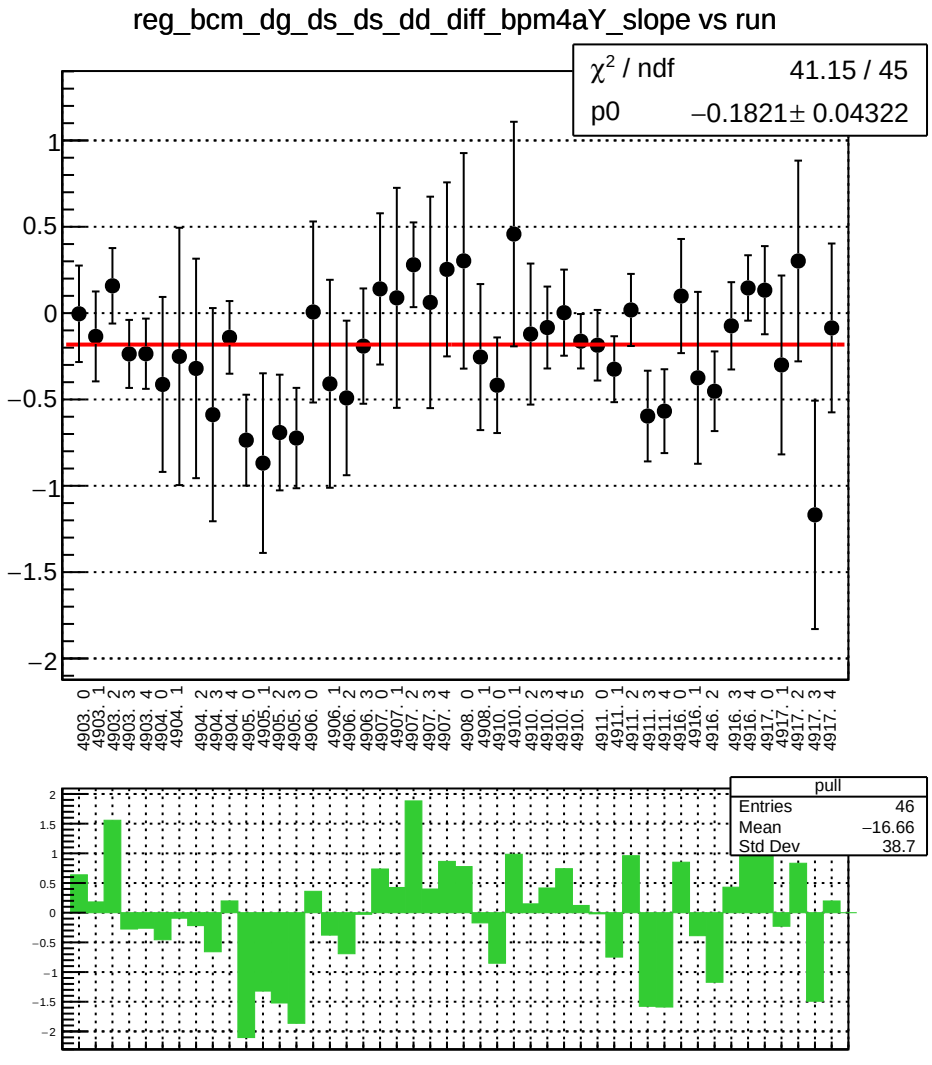

pull1D
Entries 46
Mean 0.04287
Std Dev 1.268

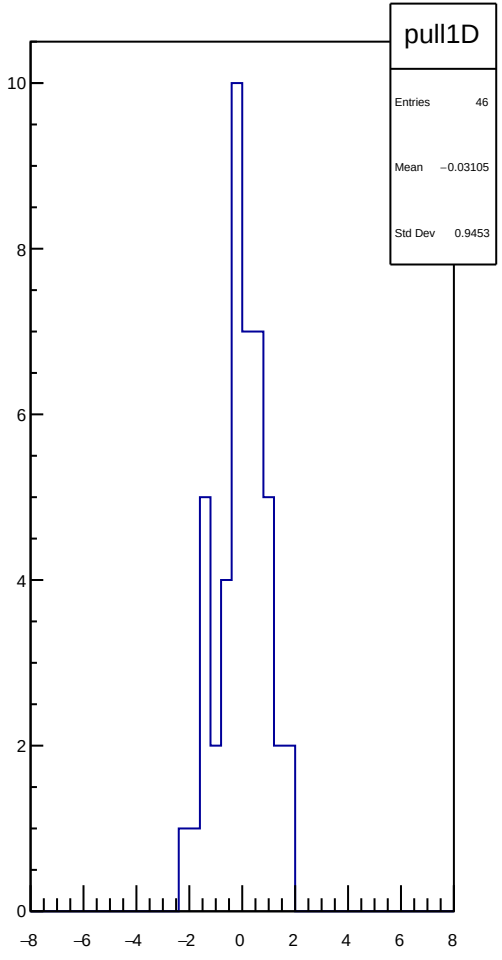

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 86.3 / 45
p0 −0.2872 ± 0.01335
pull
Entries 46
Mean 70.23
Std Dev 38.62

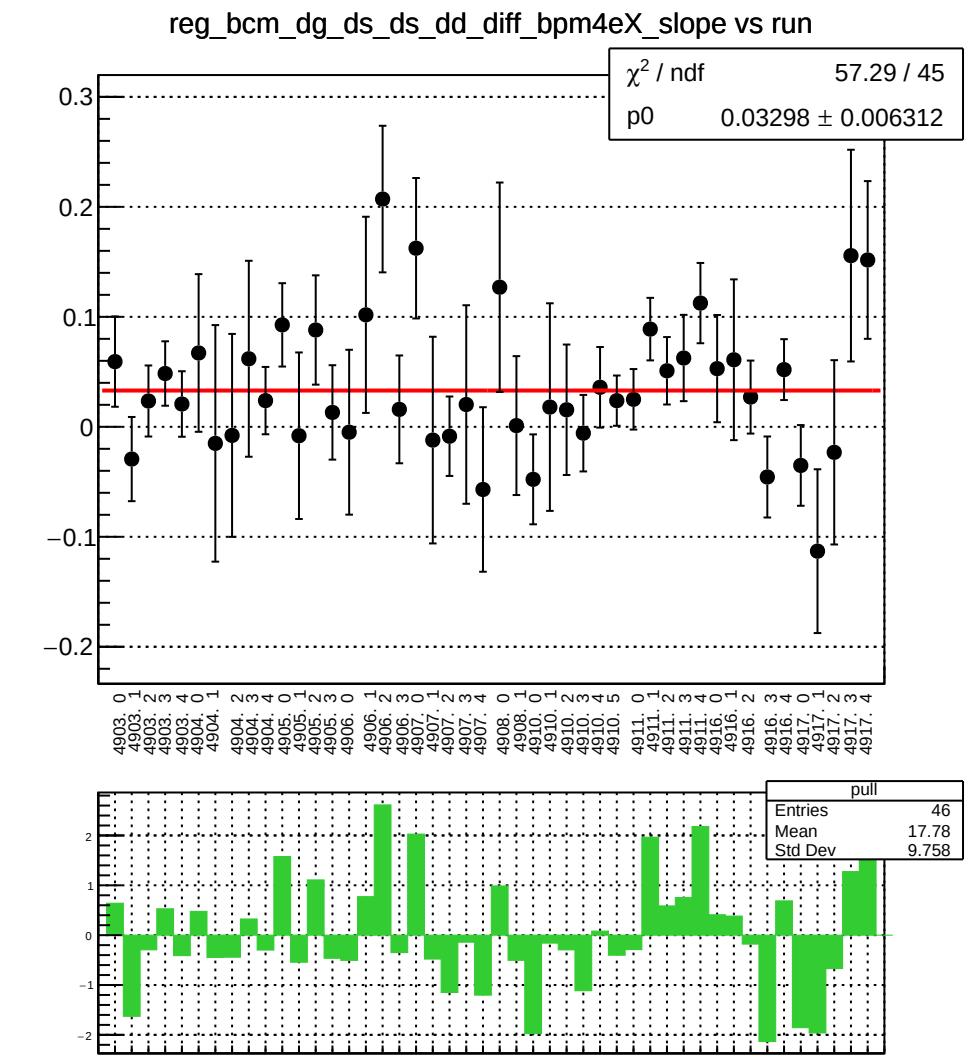

pull1D
Entries 46
Mean 0.06882
Std Dev 1.368

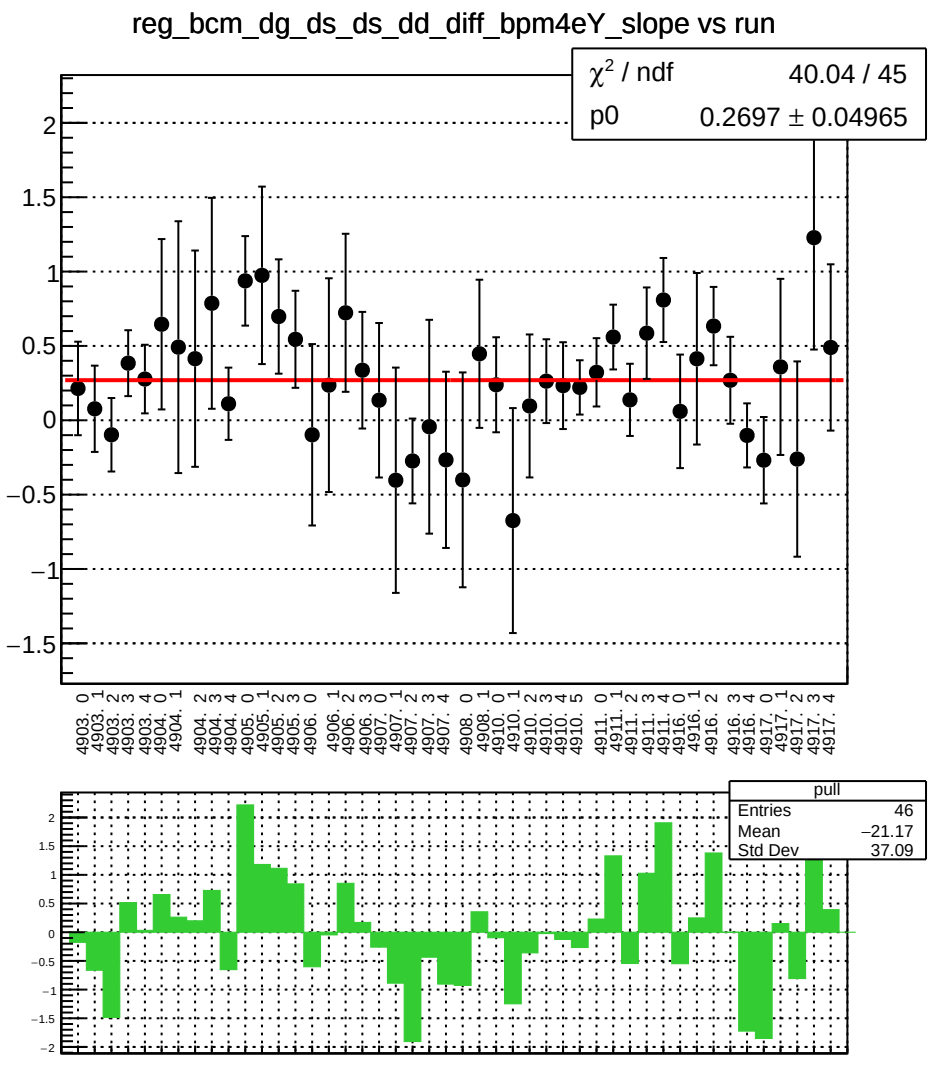

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.1 / 45
p0 −0.08442 ± 0.03081
pull
Entries 46
Mean −26.01
Std Dev 47.68

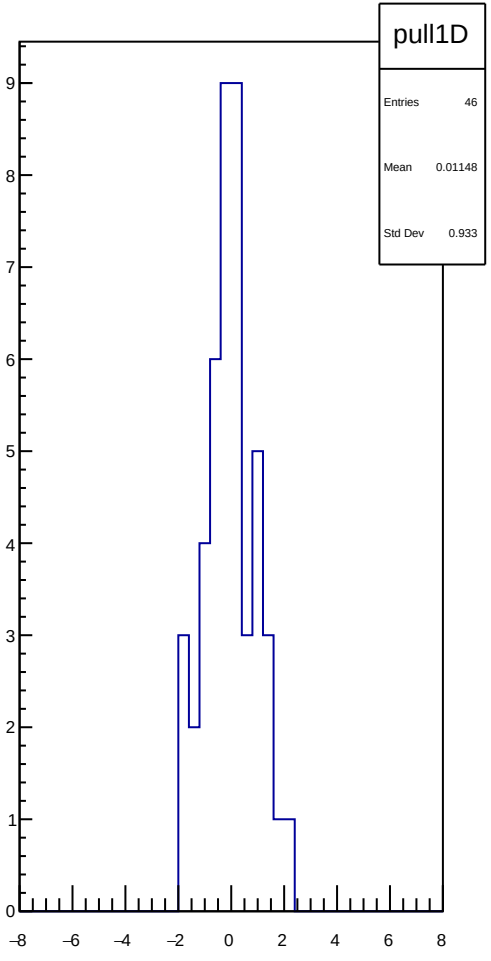

pull1D
Entries 46
Mean 0.04289
Std Dev 0.8724

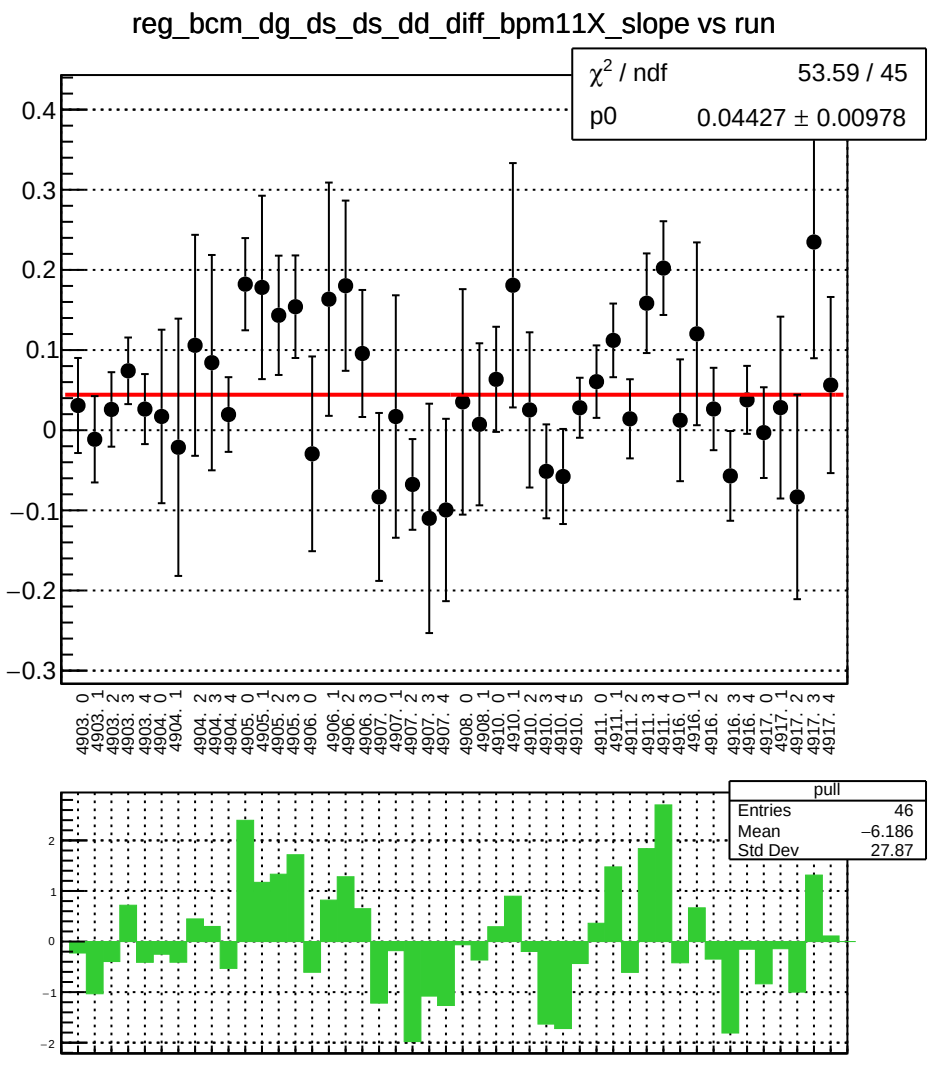

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.15 / 45
p0 −0.1821± 0.04322
pull
Entries 46
Mean −16.66
Std Dev 38.7

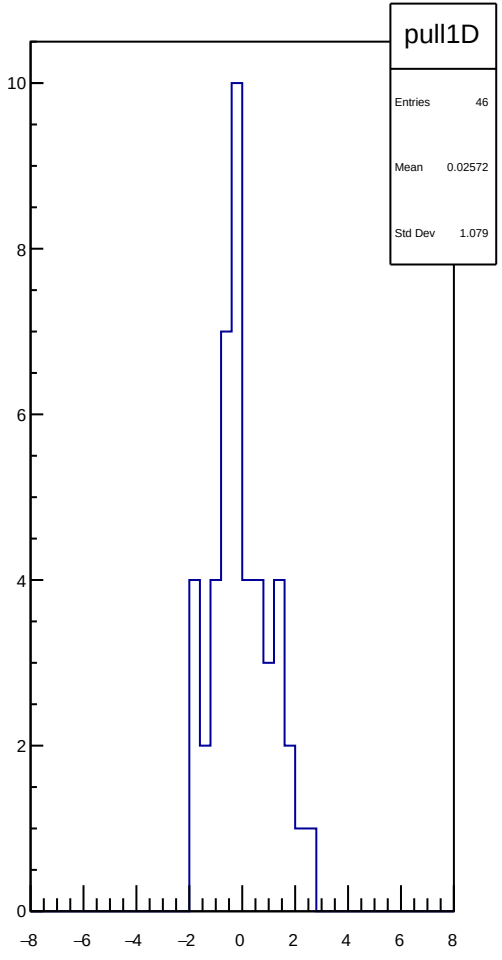

pull1D
Entries 46
Mean −0.03105
Std Dev 0.9453


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.29 / 45
p0 0.03298 ± 0.006312
0.3
0.2
0.1
0
−0.1
−0.2
4903. 0
4903. 1
4903. 2
4903. 3
4903. 4
4904. 0
4904. 1
4904. 2
4904. 3
4904. 4
4905. 0
4905. 1
4905. 2
4905. 3
4906. 0
4906. 1
4906. 2
4906. 3
4907. 0
4907. 1
4907. 2
4907. 3
4907. 4
4908. 0
4908. 1
4910. 0
4910. 1
4910. 2
4910. 3
4910. 4
4910. 5
4911. 0
4911. 1
4911. 2
4911. 3
4911. 4
4916. 0
4916. 1
4916. 2
4916. 3
4916. 4
4917. 0
4917. 1
4917. 2
4917. 3
4917. 4
pull
Entries 46
Mean 17.78
Std Dev 9.758
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02461
Std Dev 1.116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.04 / 45
p0 0.2697 ± 0.04965
pull
Entries 46
Mean −21.17
Std Dev 37.09


pull1D
Entries 46
Mean 0.01148
Std Dev 0.933


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 53.59 / 45
p0 0.04427 ± 0.00978
pull
Entries 46
Mean −6.186
Std Dev 27.87


pull1D
Entries 46
Mean 0.02572
Std Dev 1.079