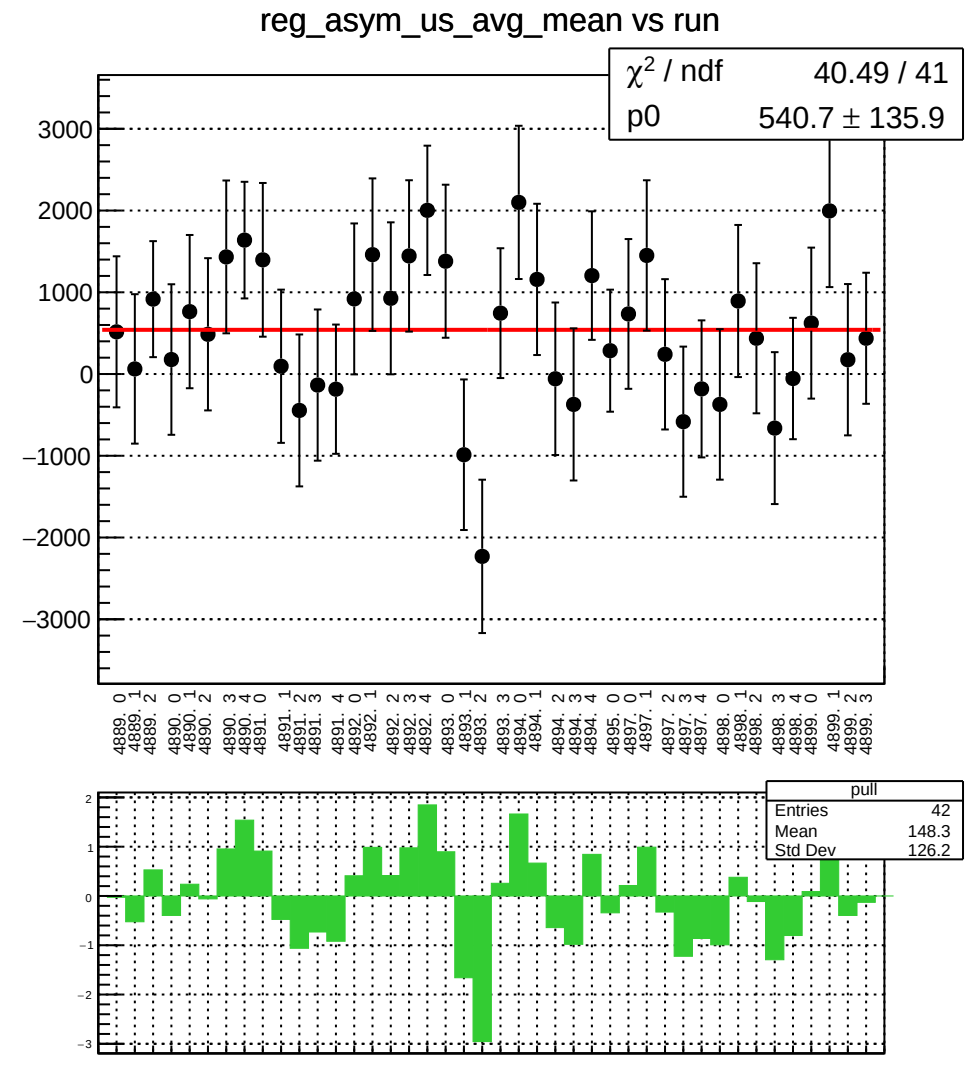
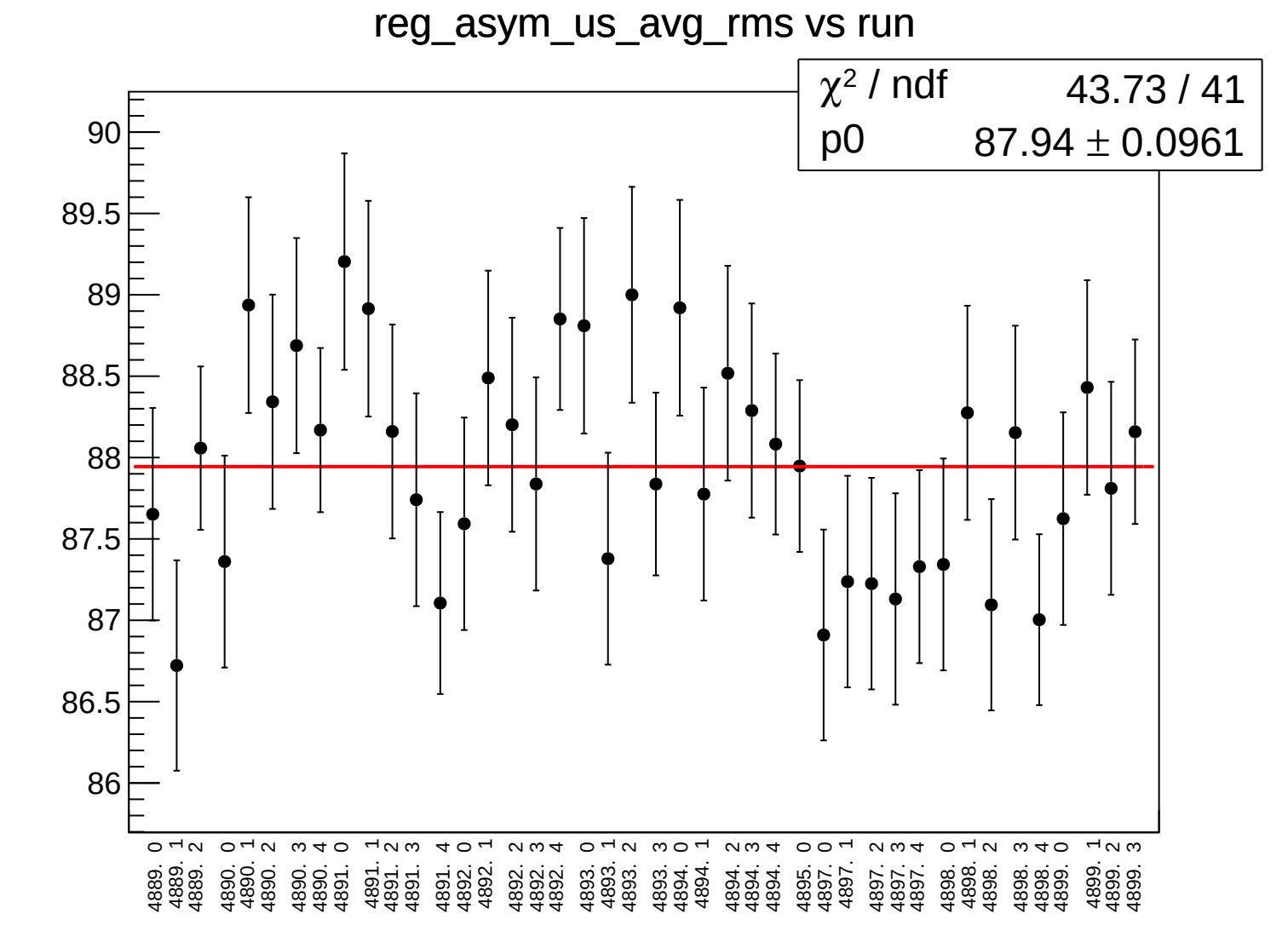
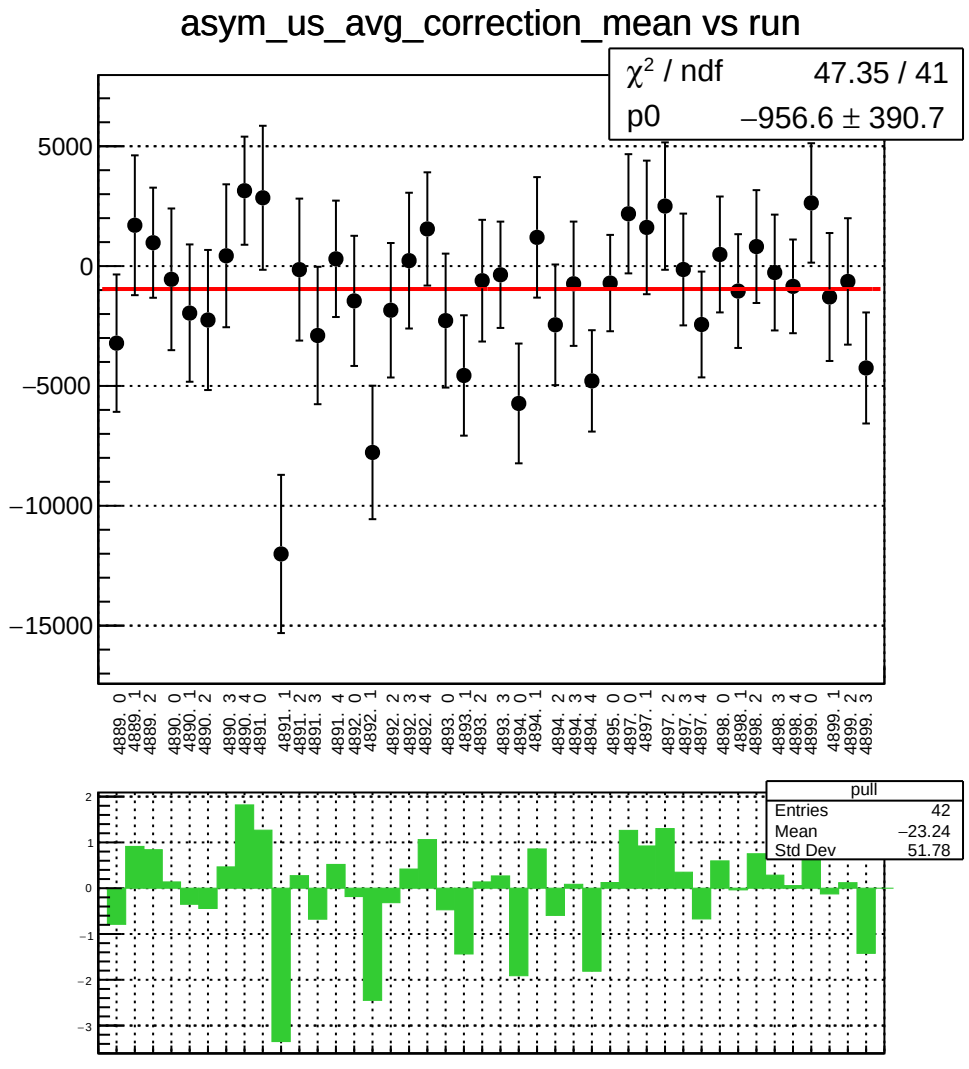
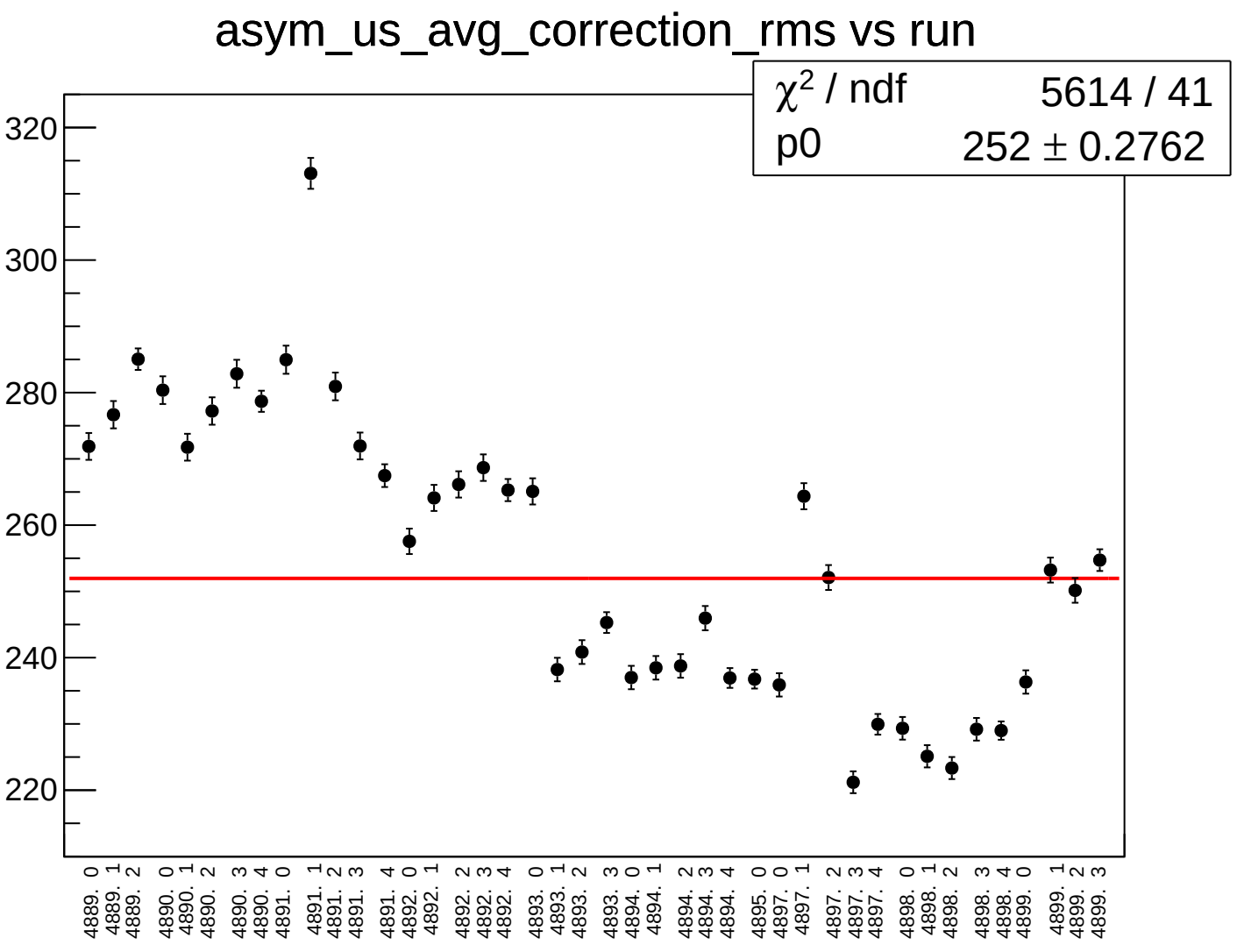
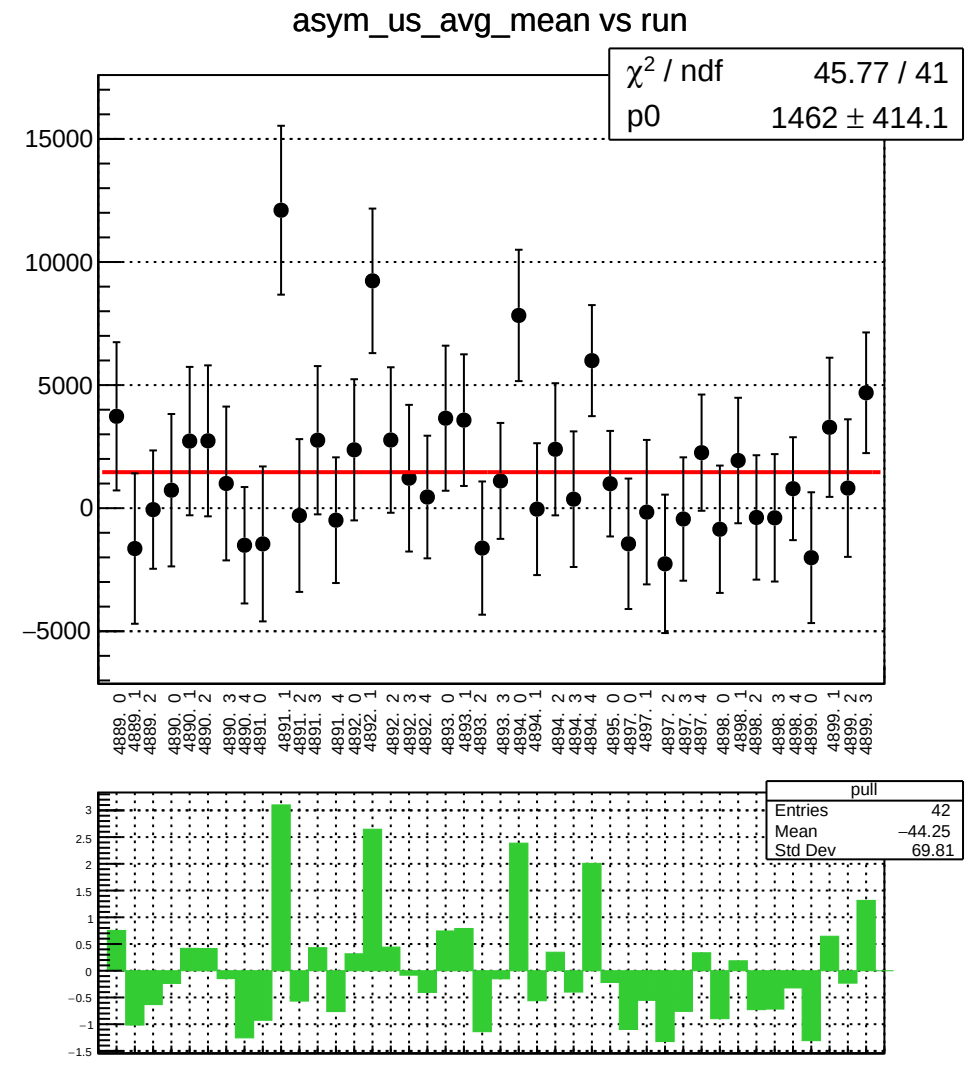
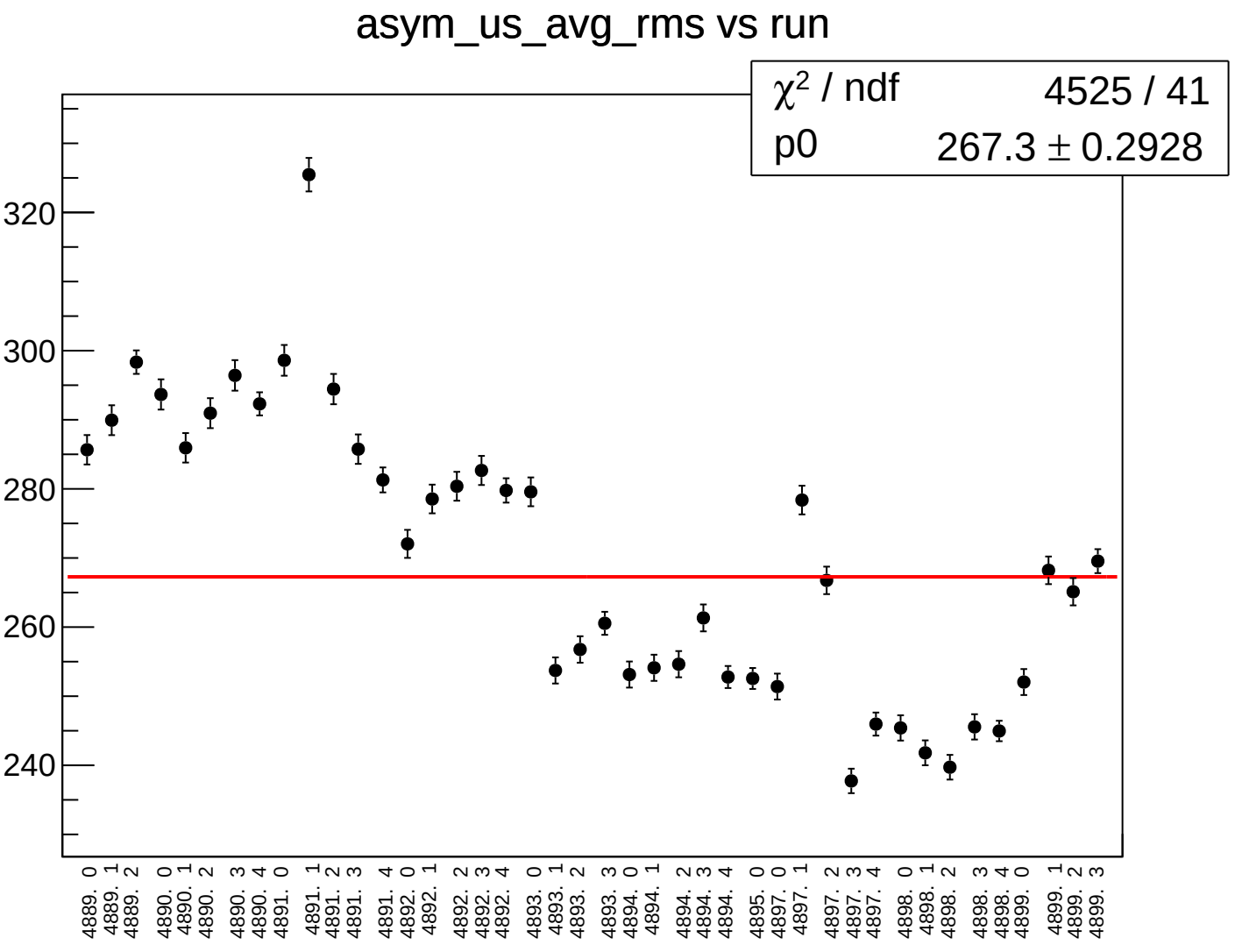

reg_asym_us_avg_mean vs run
χ² / ndf 40.49 / 41
p0 540.7 ± 135.9
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 148.3
Std Dev 126.2
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.01283
Std Dev 0.9818
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

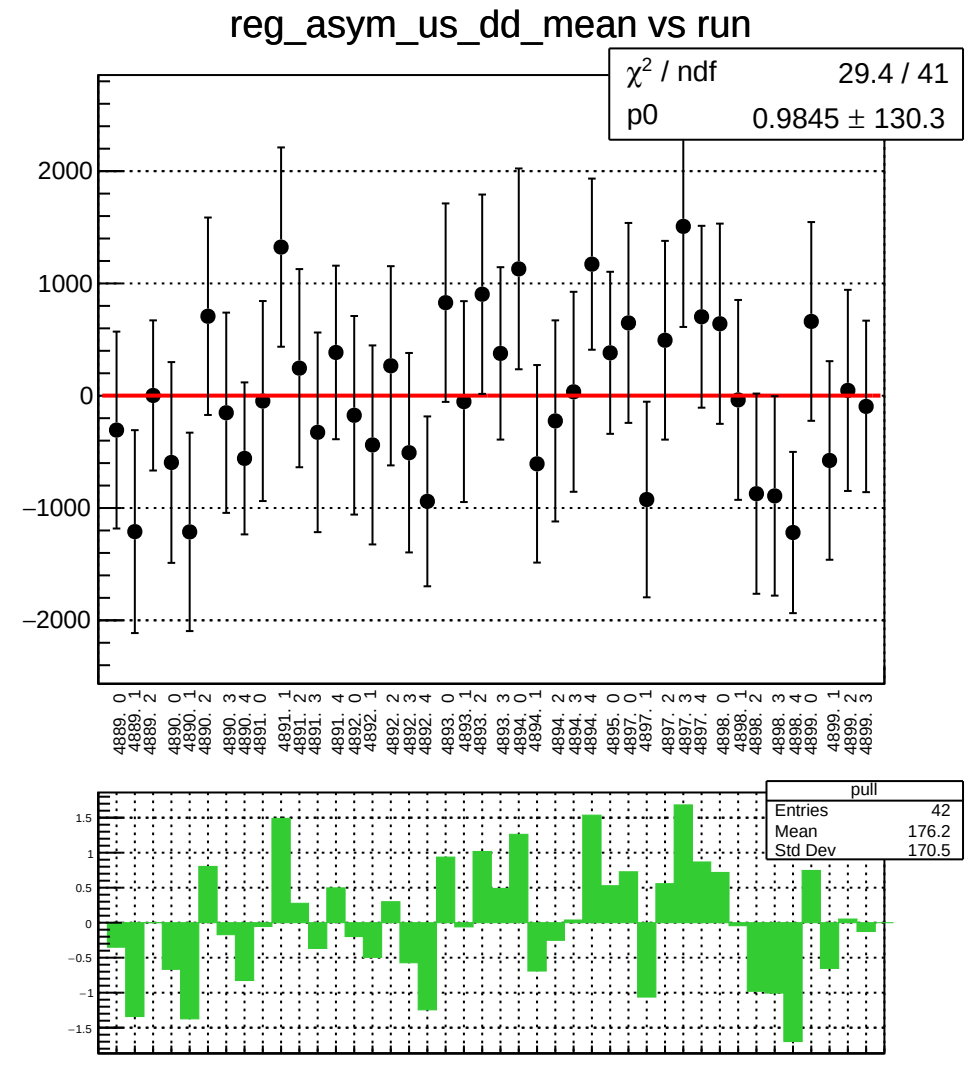

reg_asym_us_avg_rms vs run
χ² / ndf 43.73 / 41
p0 87.94 ± 0.0961
90
89.5
89
88.5
88
87.5
87
86.5
86
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

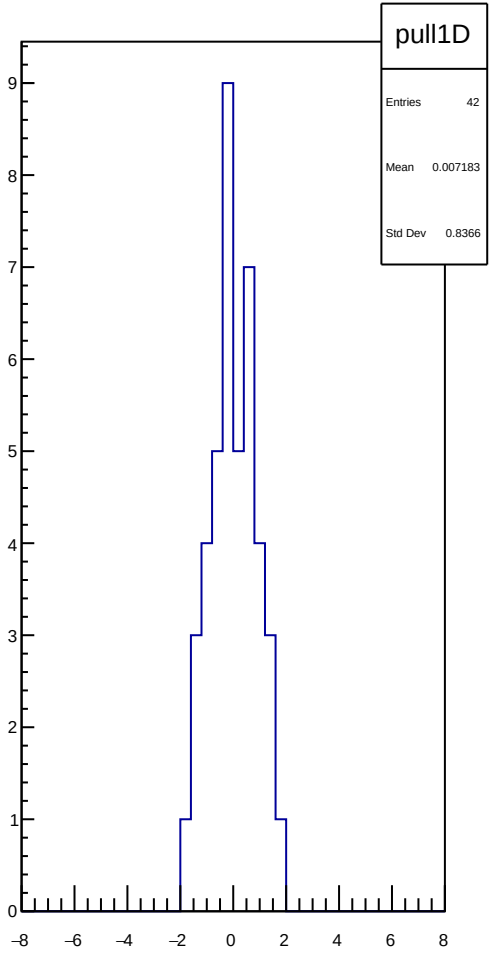

asym_us_avg_correction_mean vs run
χ² / ndf 47.35 / 41
p0 −956.6 ± 390.7
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −23.24
Std Dev 51.78
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.01817
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

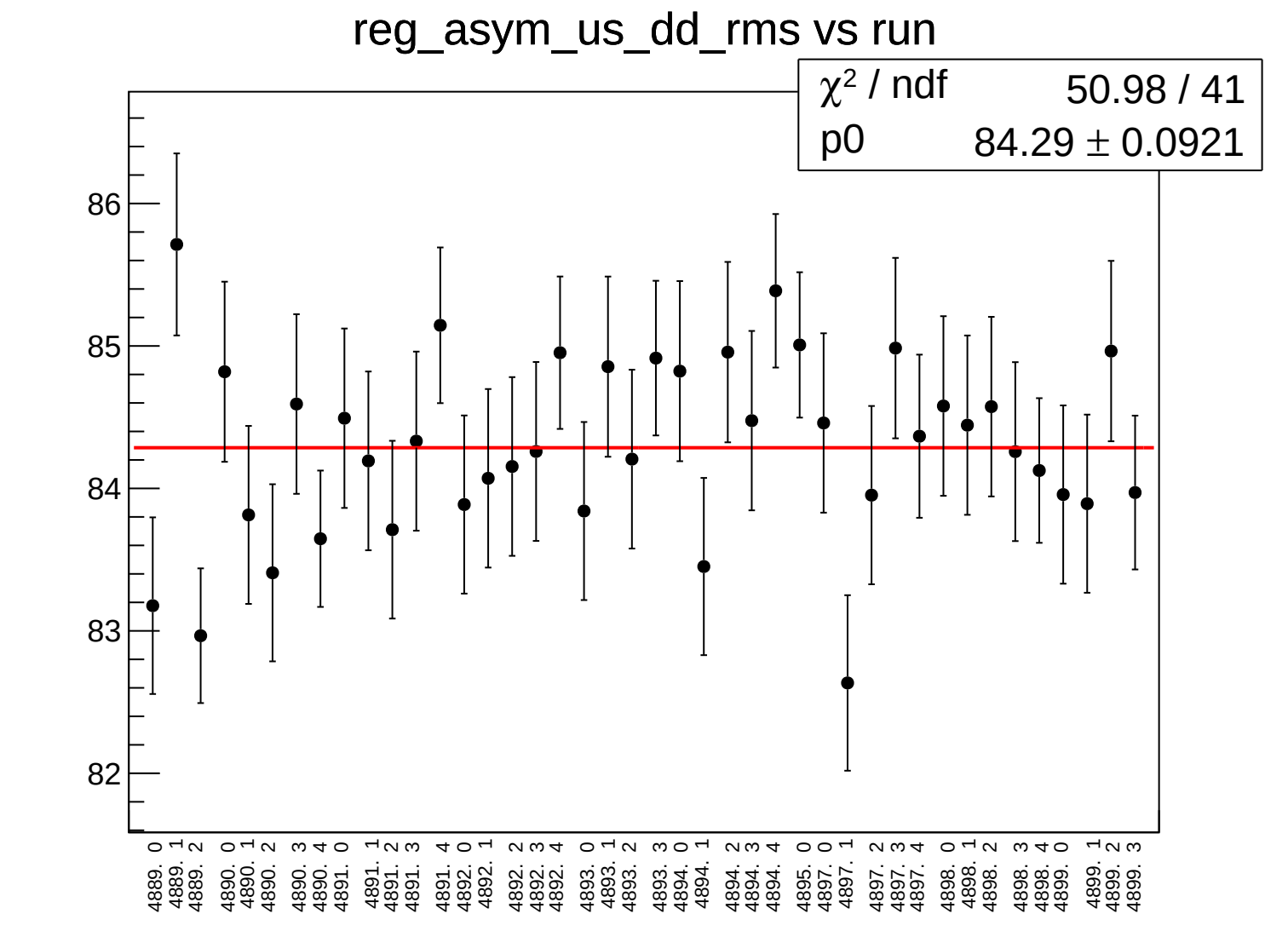

asym_us_avg_correction_rms vs run
χ² / ndf 5614 / 41
p0 252 ± 0.2762
320
300
280
260
240
220
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

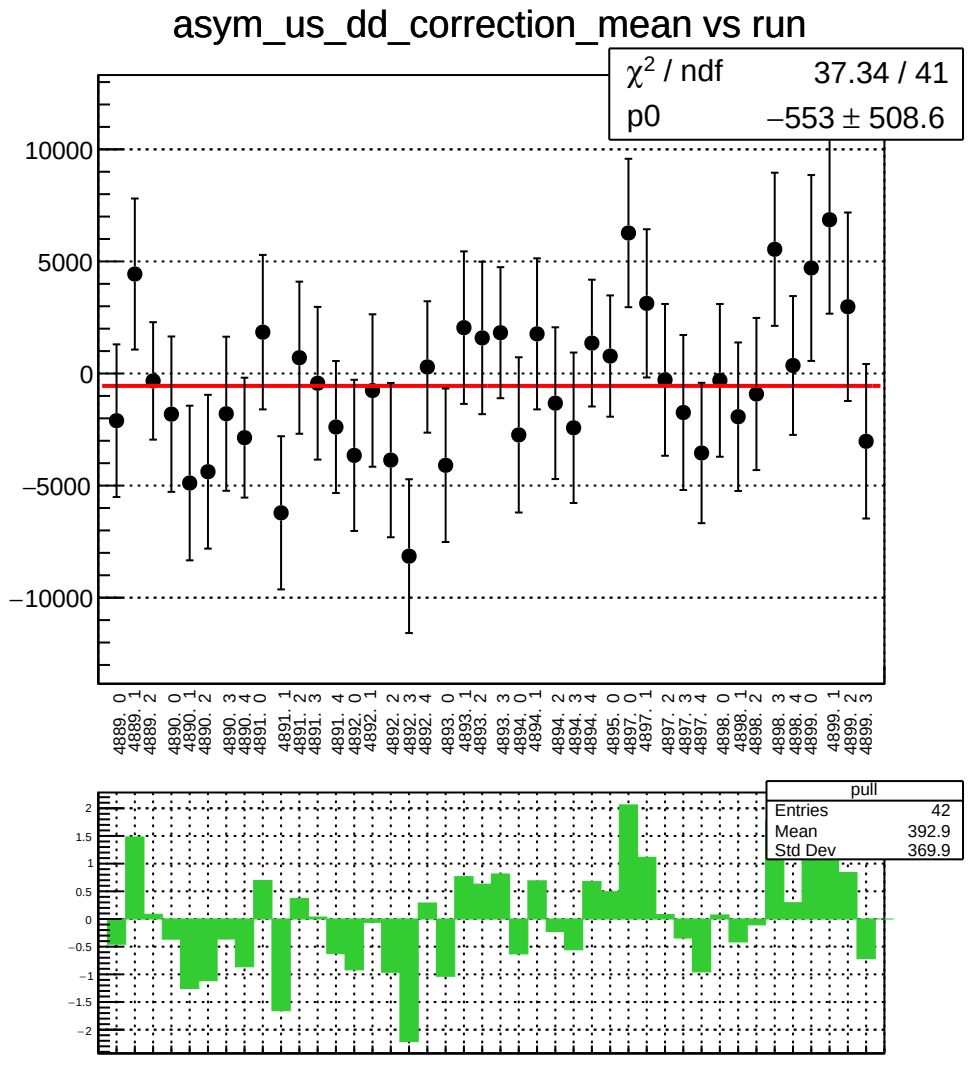

asym_us_avg_mean vs run
χ² / ndf 45.77 / 41
p0 1462 ± 414.1
15000
10000
5000
0
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −44.25
Std Dev 69.81
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.02012
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

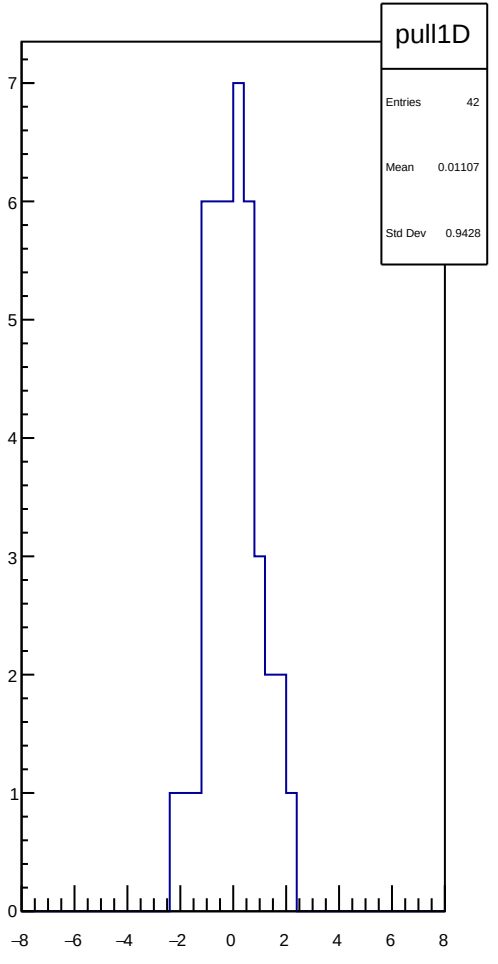

asym_us_avg_rms vs run
χ² / ndf 4525 / 41
p0 267.3 ± 0.2928
320
300
280
260
240
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

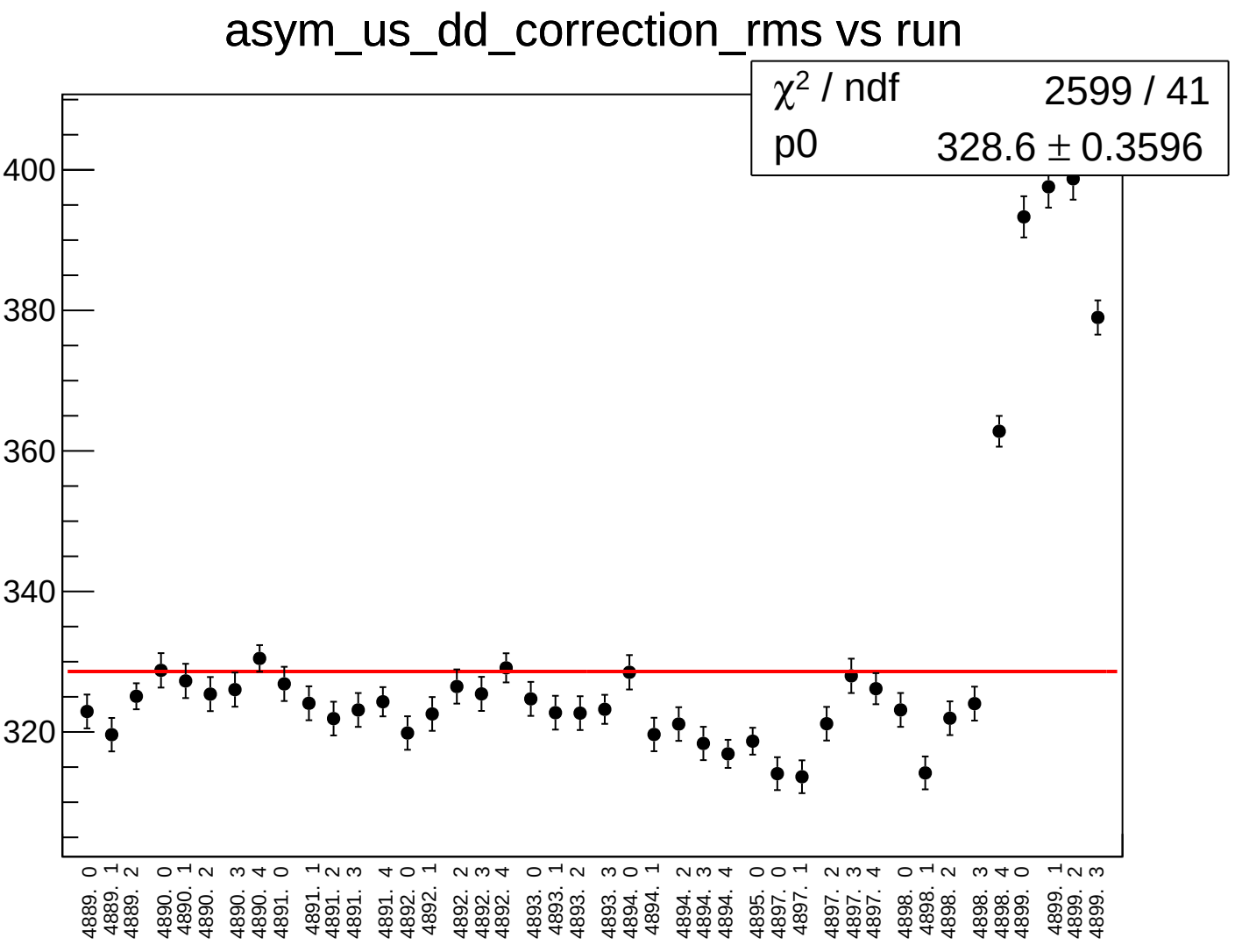

reg_asym_us_dd_mean vs run
χ² / ndf 29.4 / 41
p0 0.9845 ± 130.3
2000
1000
0
−1000
−2000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 176.2
Std Dev 170.5
1.5
1
0.5
0
−0.5
−1
−1.5

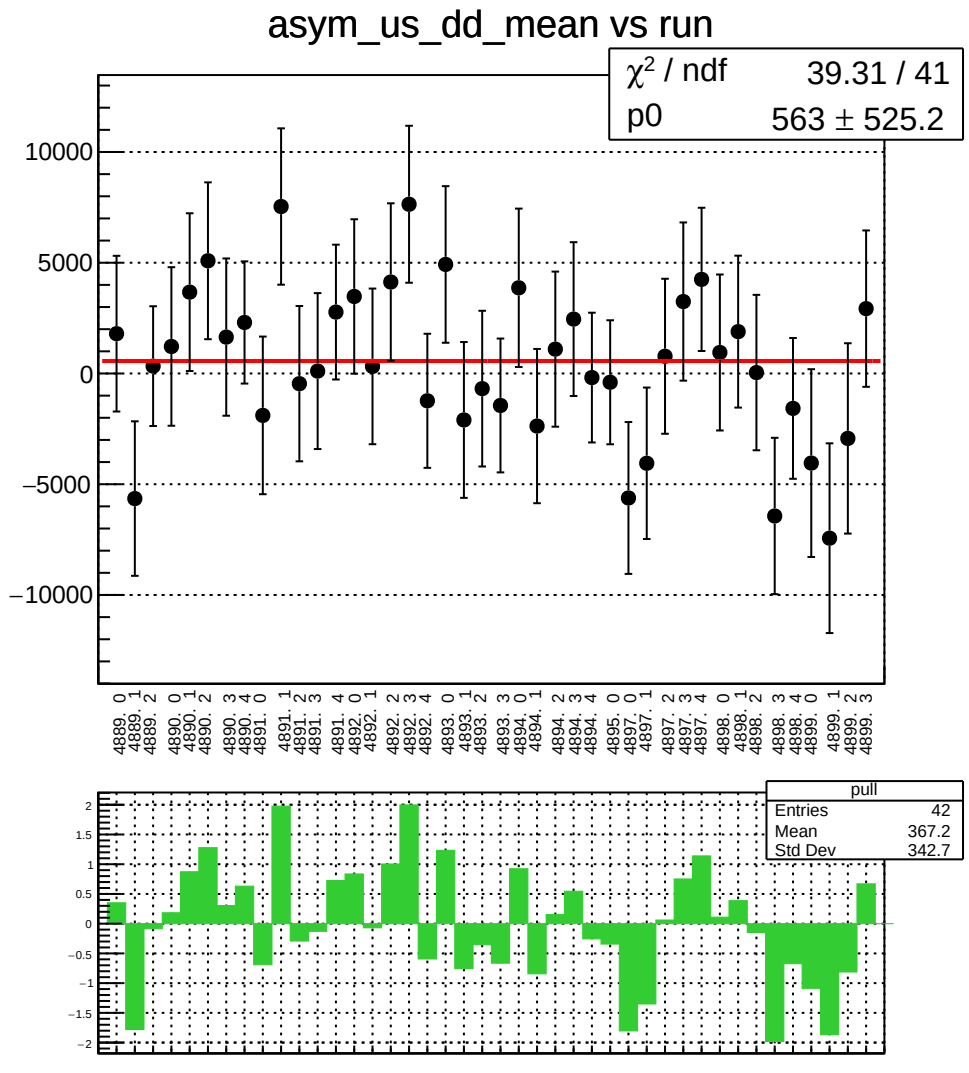

pull1D
Entries 42
Mean 0.007183
Std Dev 0.8366
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

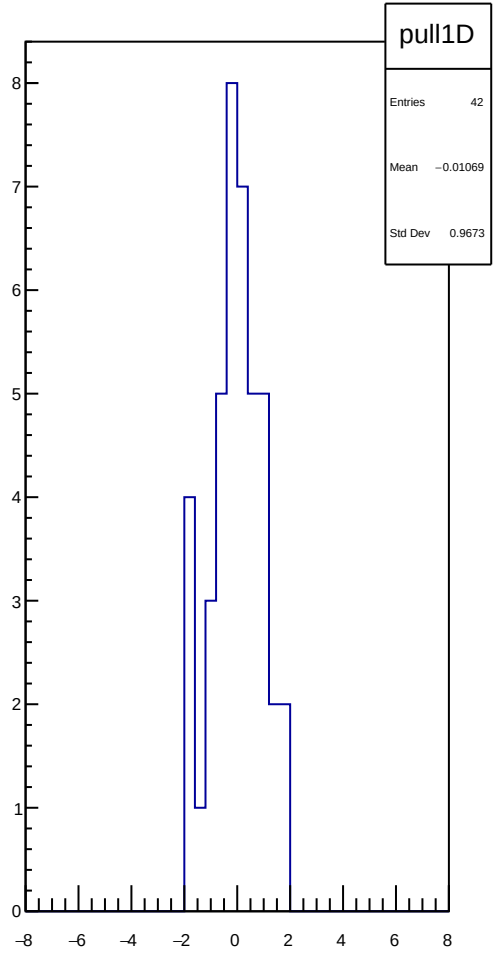

reg_asym_us_dd_rms vs run
χ² / ndf 50.98 / 41
p0 84.29 ± 0.0921
86
85
84
83
82
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

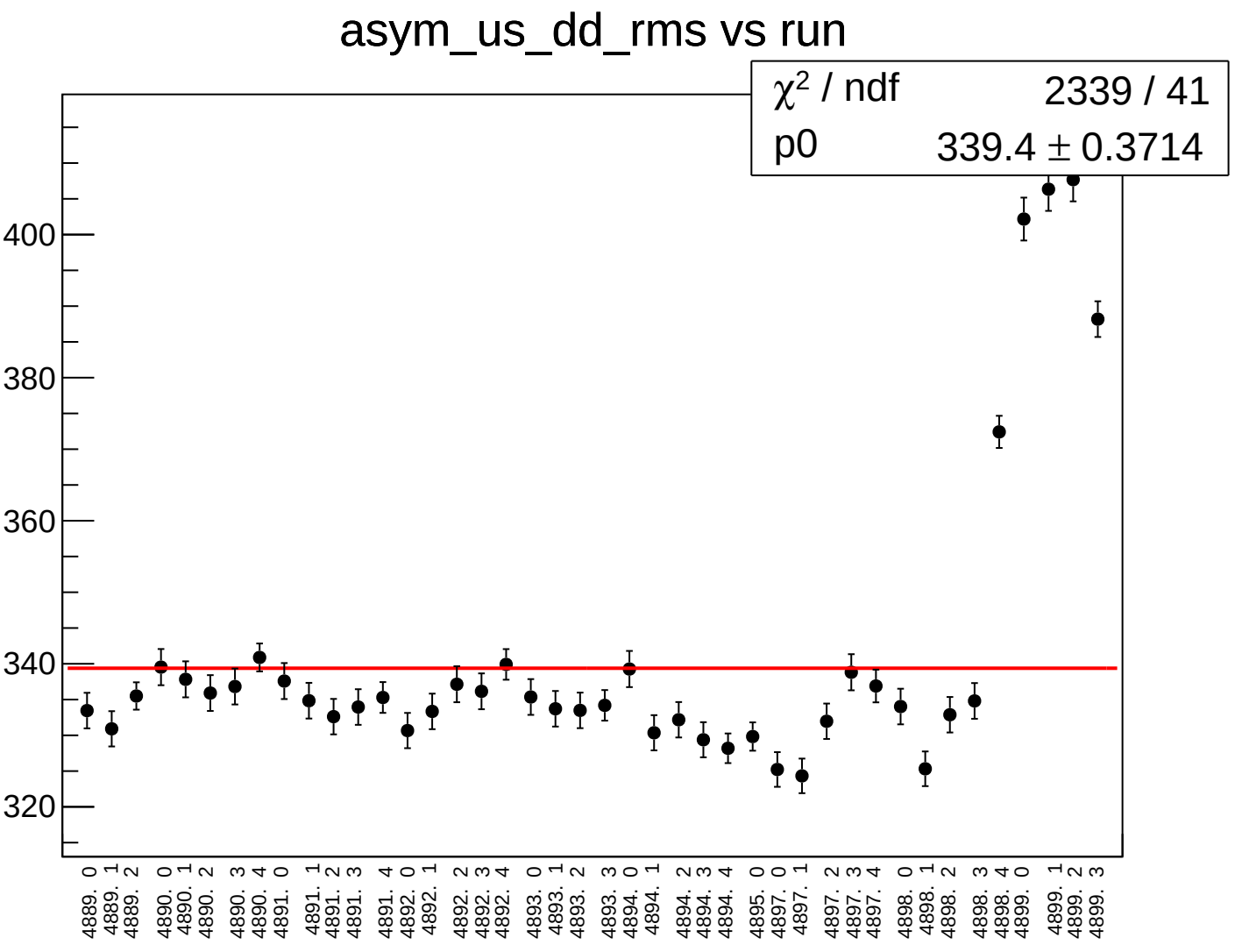

asym_us_dd_correction_mean vs run
χ² / ndf 37.34 / 41
p0 −553 ± 508.6
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 392.9
Std Dev 369.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

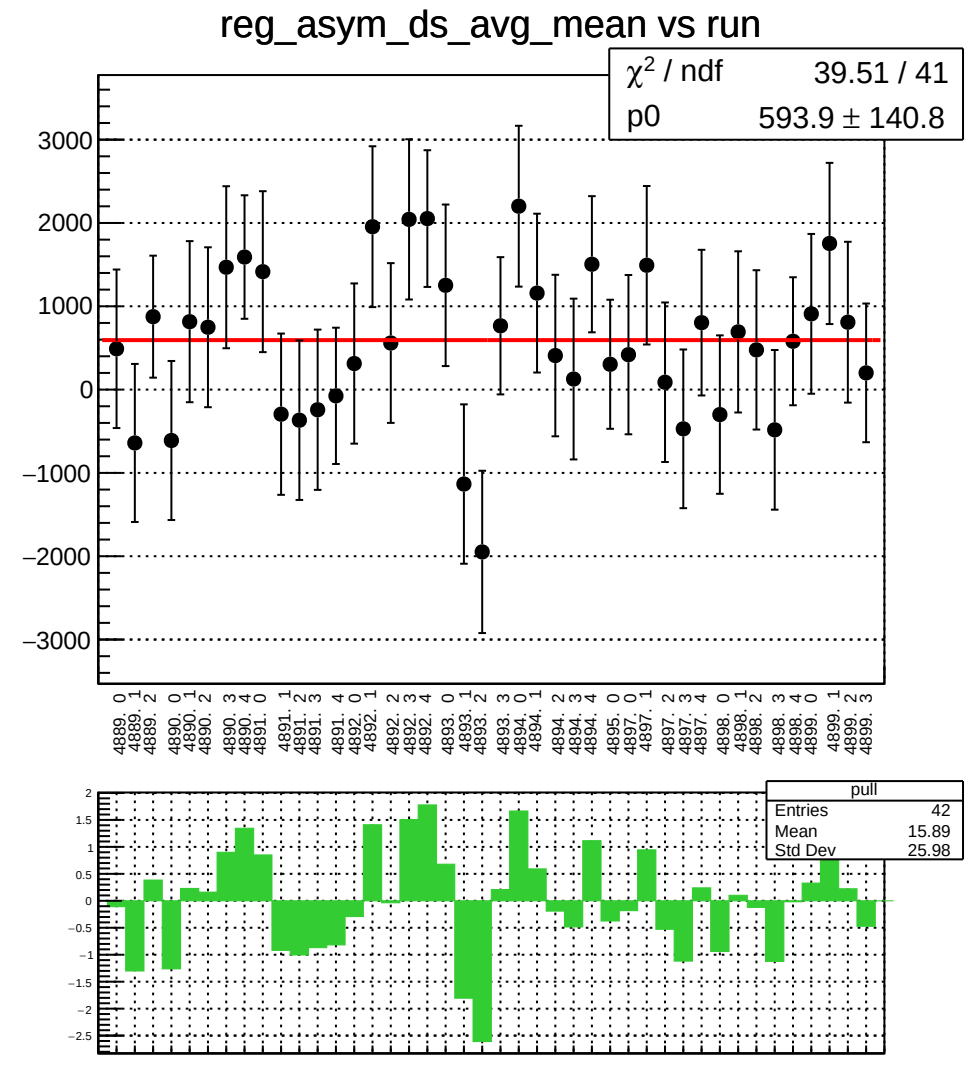

pull1D
Entries 42
Mean 0.01107
Std Dev 0.9428
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

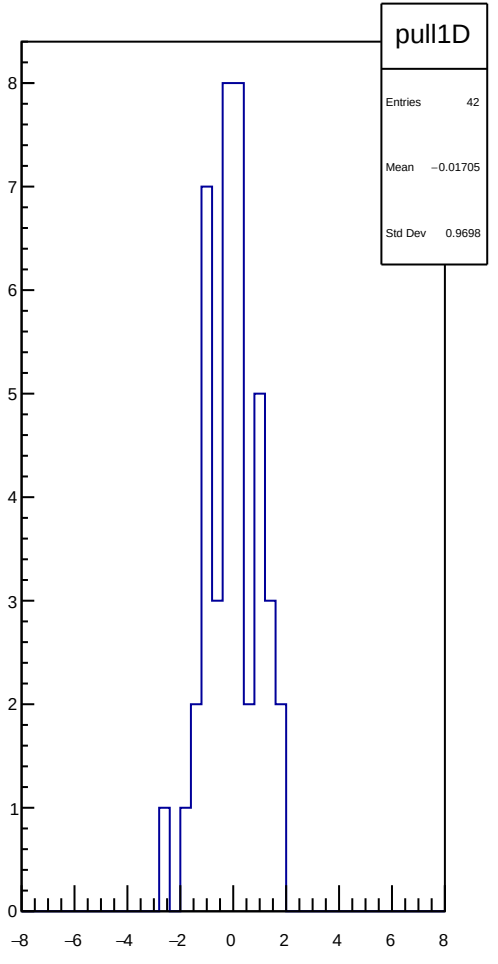

asym_us_dd_correction_rms vs run
χ² / ndf 2599 / 41
p0 328.6 ± 0.3596
400
380
360
340
320
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

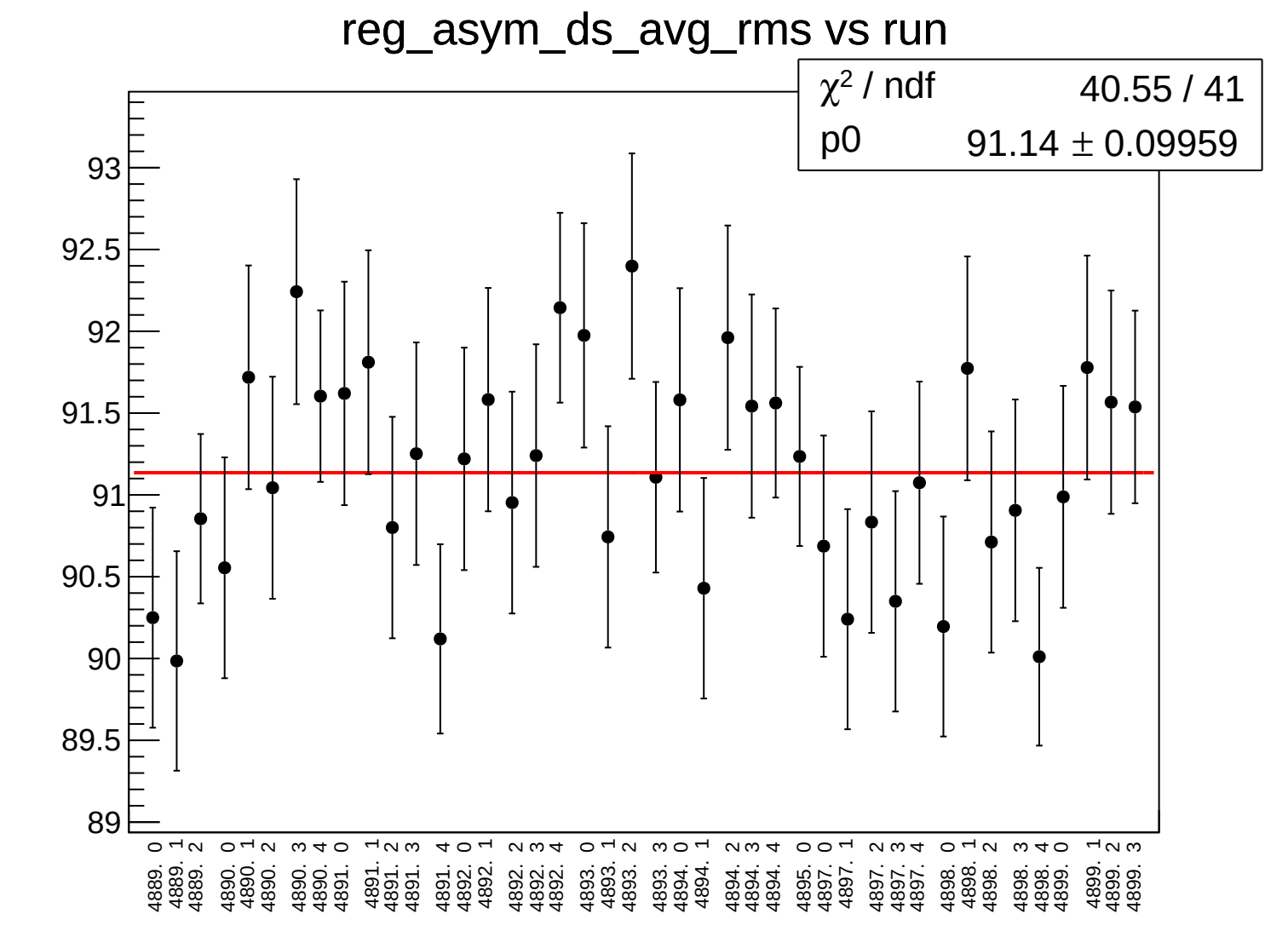

asym_us_dd_mean vs run
χ² / ndf 39.31 / 41
p0 563 ± 525.2
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 367.2
Std Dev 342.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

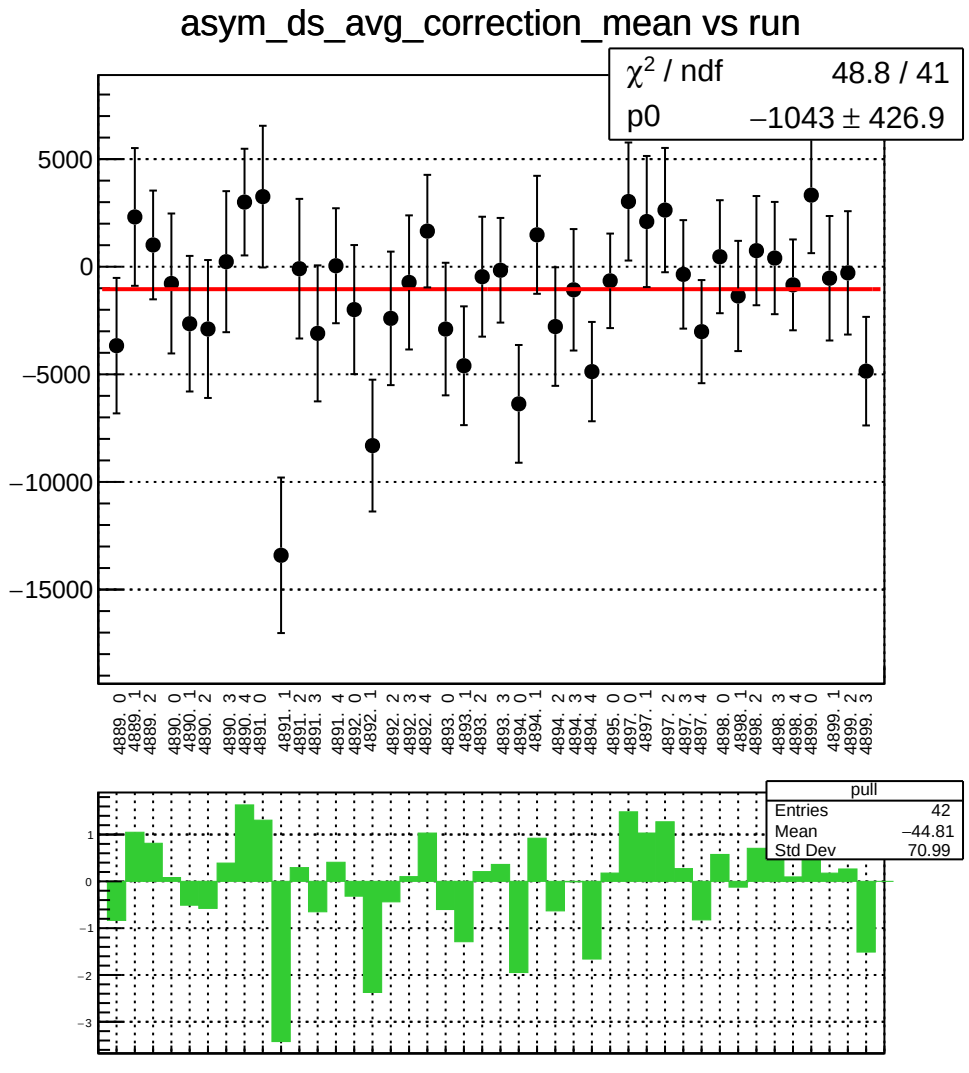

pull1D
Entries 42
Mean −0.01069
Std Dev 0.9673
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

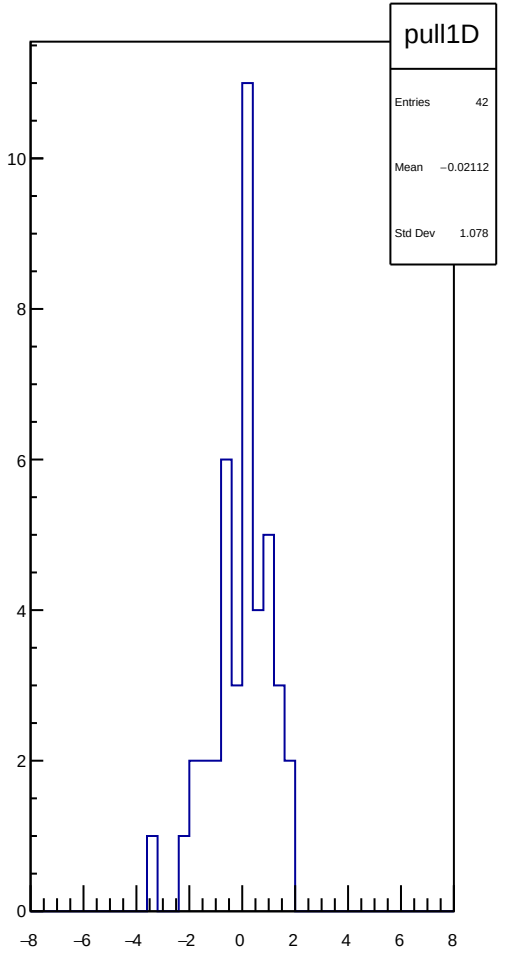

asym_us_dd_rms vs run
χ² / ndf 2339 / 41
p0 339.4 ± 0.3714
400
380
360
340
320
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

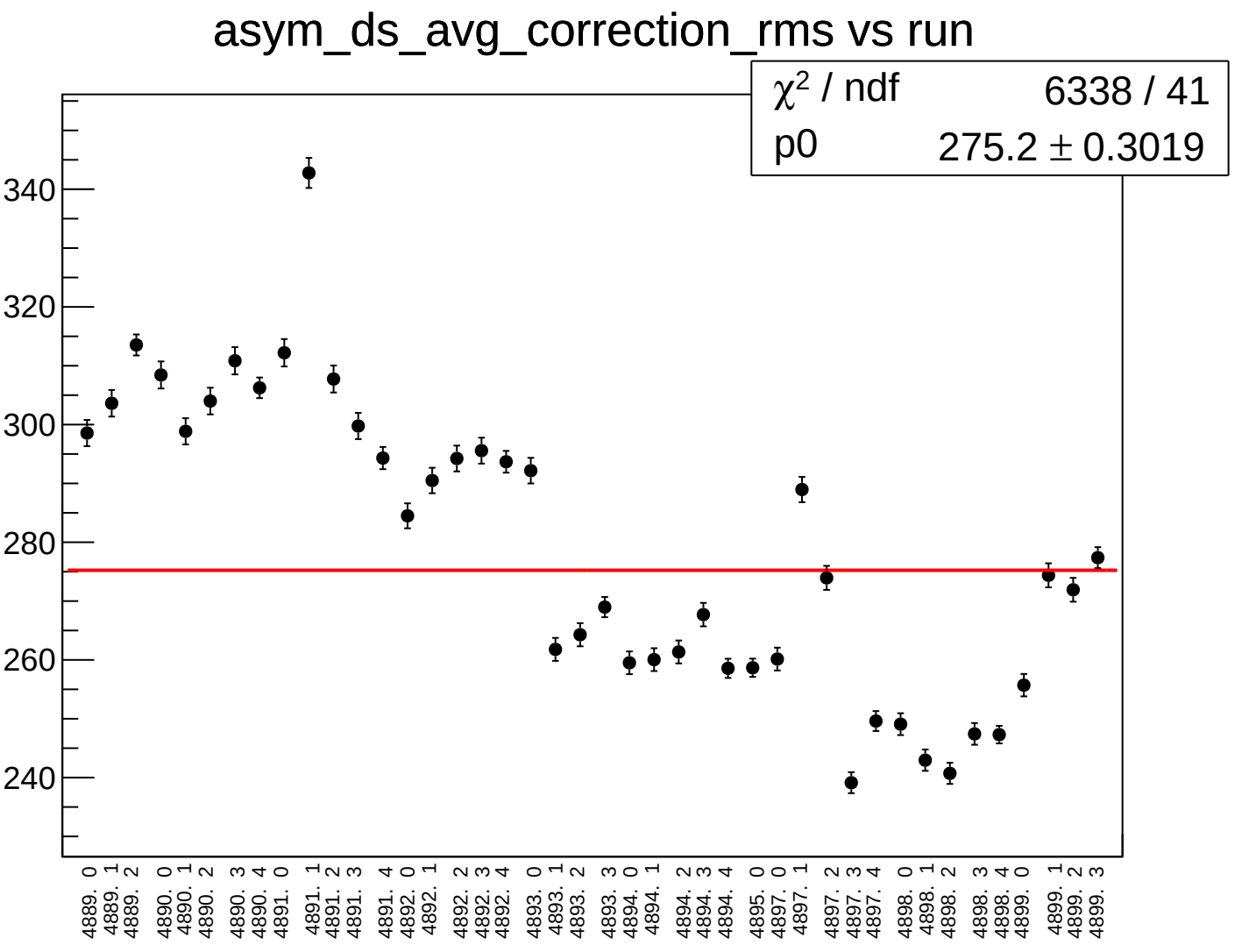

reg_asym_ds_avg_mean vs run
χ² / ndf 39.51 / 41
p0 593.9 ± 140.8
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 15.89
Std Dev 25.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

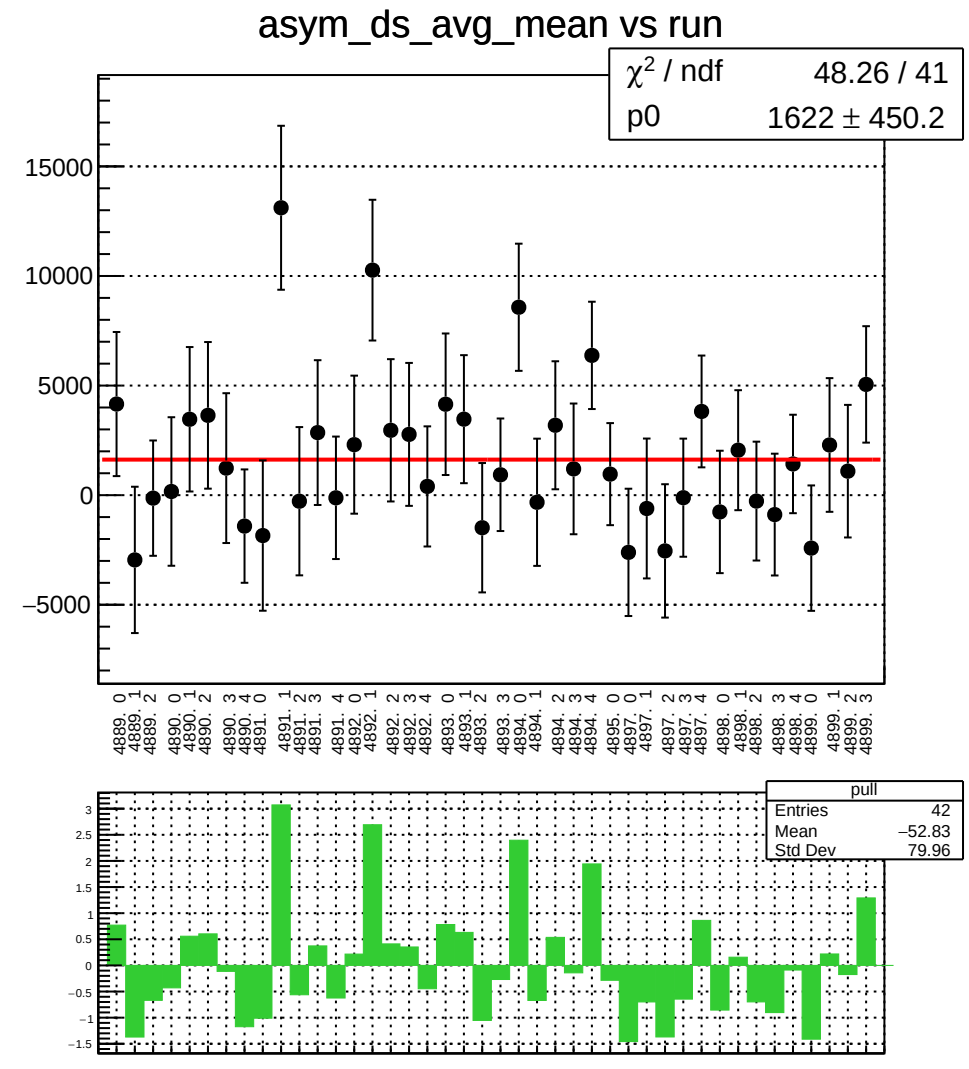

pull1D
Entries 42
Mean −0.01705
Std Dev 0.9698
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

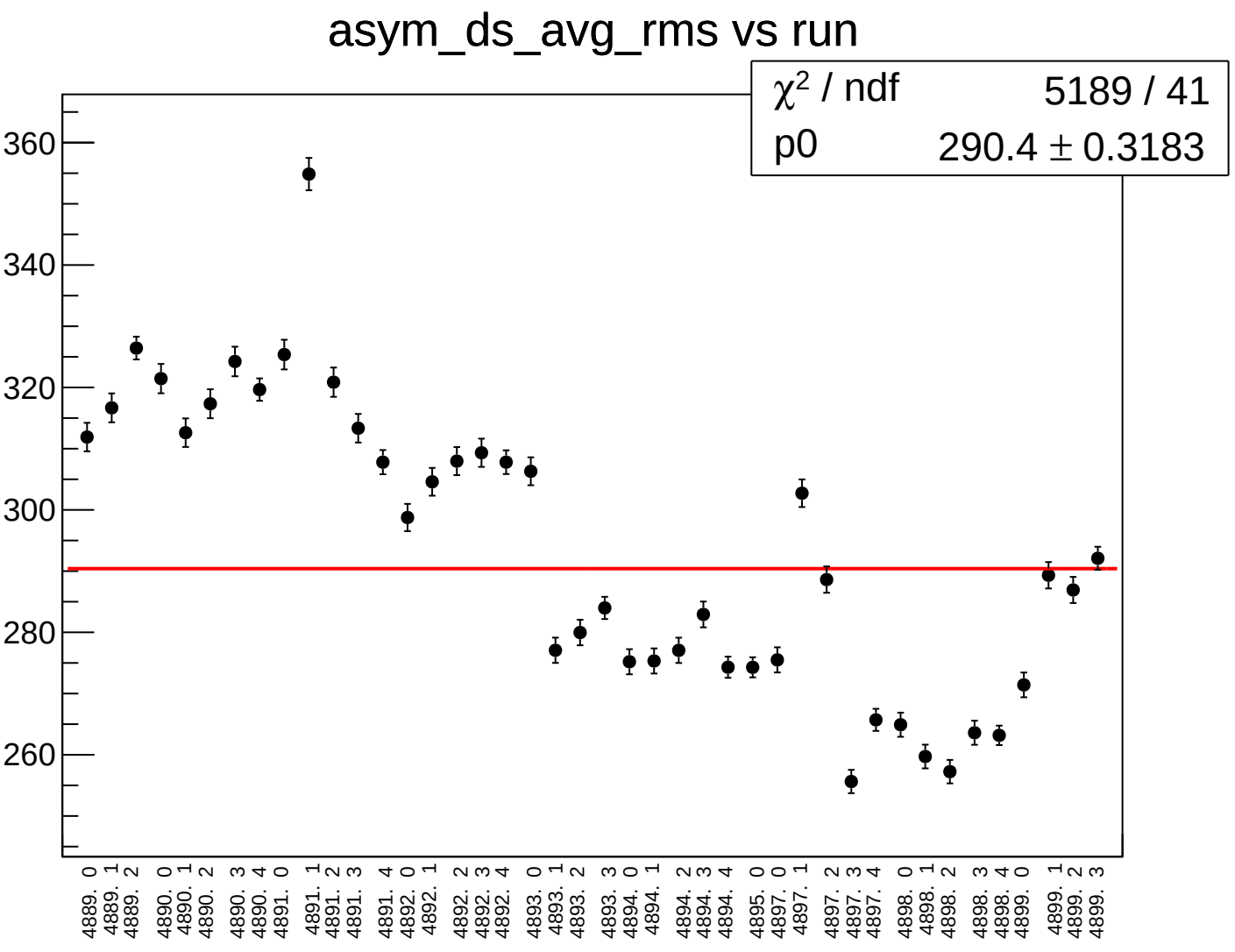

reg_asym_ds_avg_rms vs run
χ^2 / ndf 40.55 / 41
p0 91.14 ± 0.09959
93
92.5
92
91.5
91
90.5
90
89.5
89
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

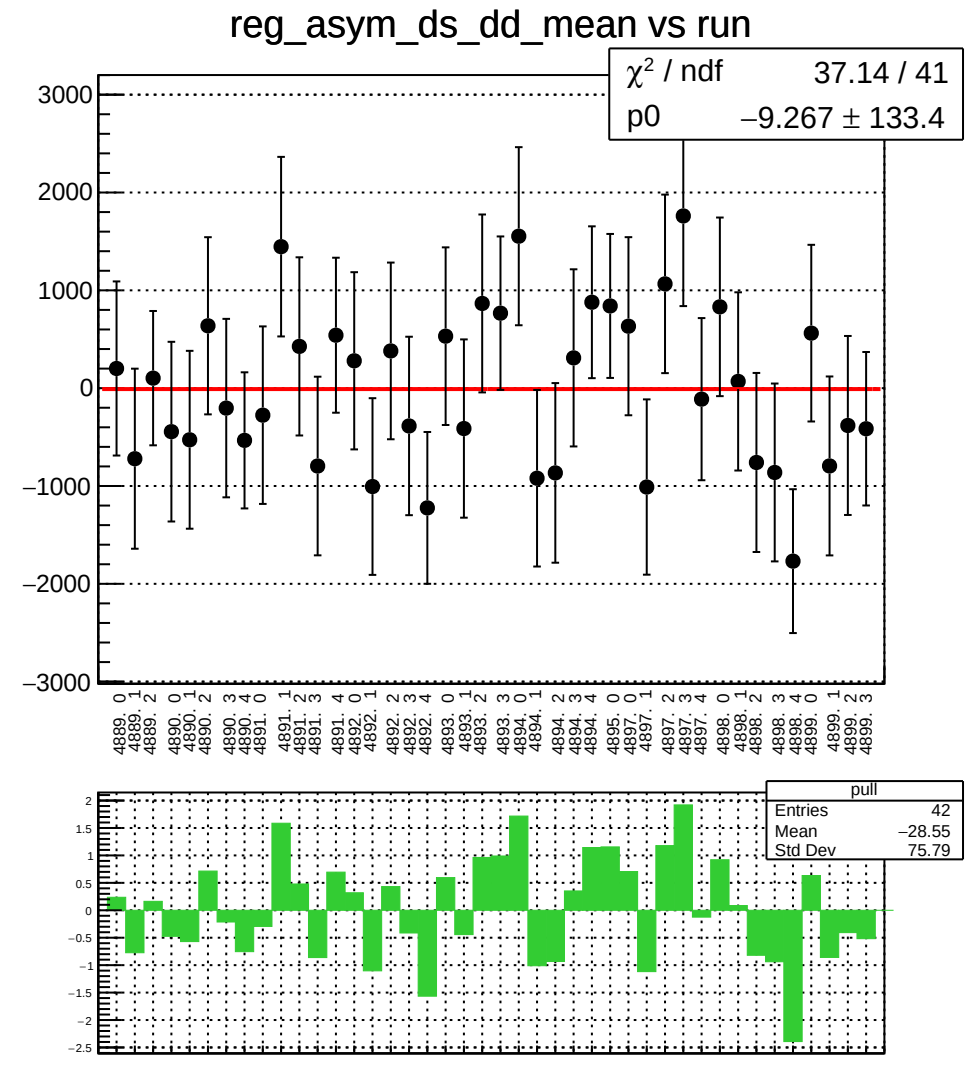

asym_ds_avg_correction_mean vs run
χ² / ndf 48.8 / 41
p0 −1043 ± 426.9
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −44.81
Std Dev 70.99
1
0
−1
−2
−3

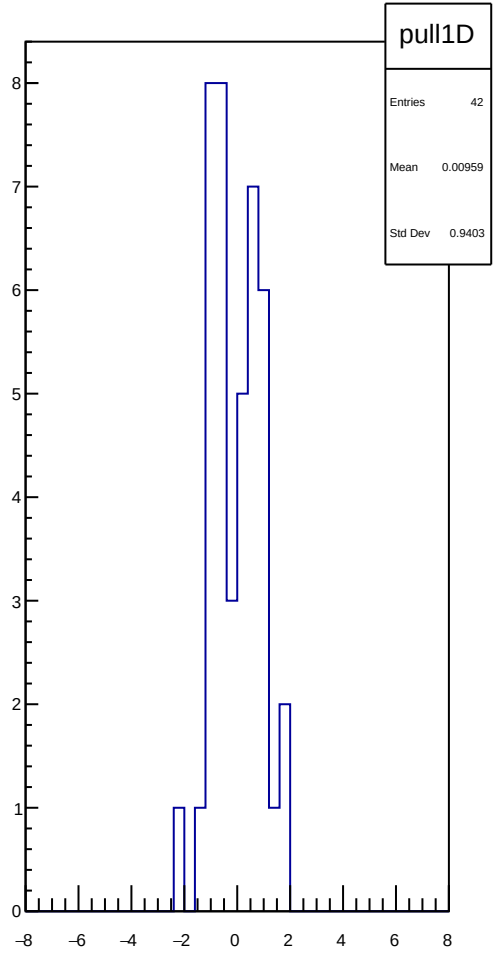

pull1D
Entries 42
Mean −0.02112
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

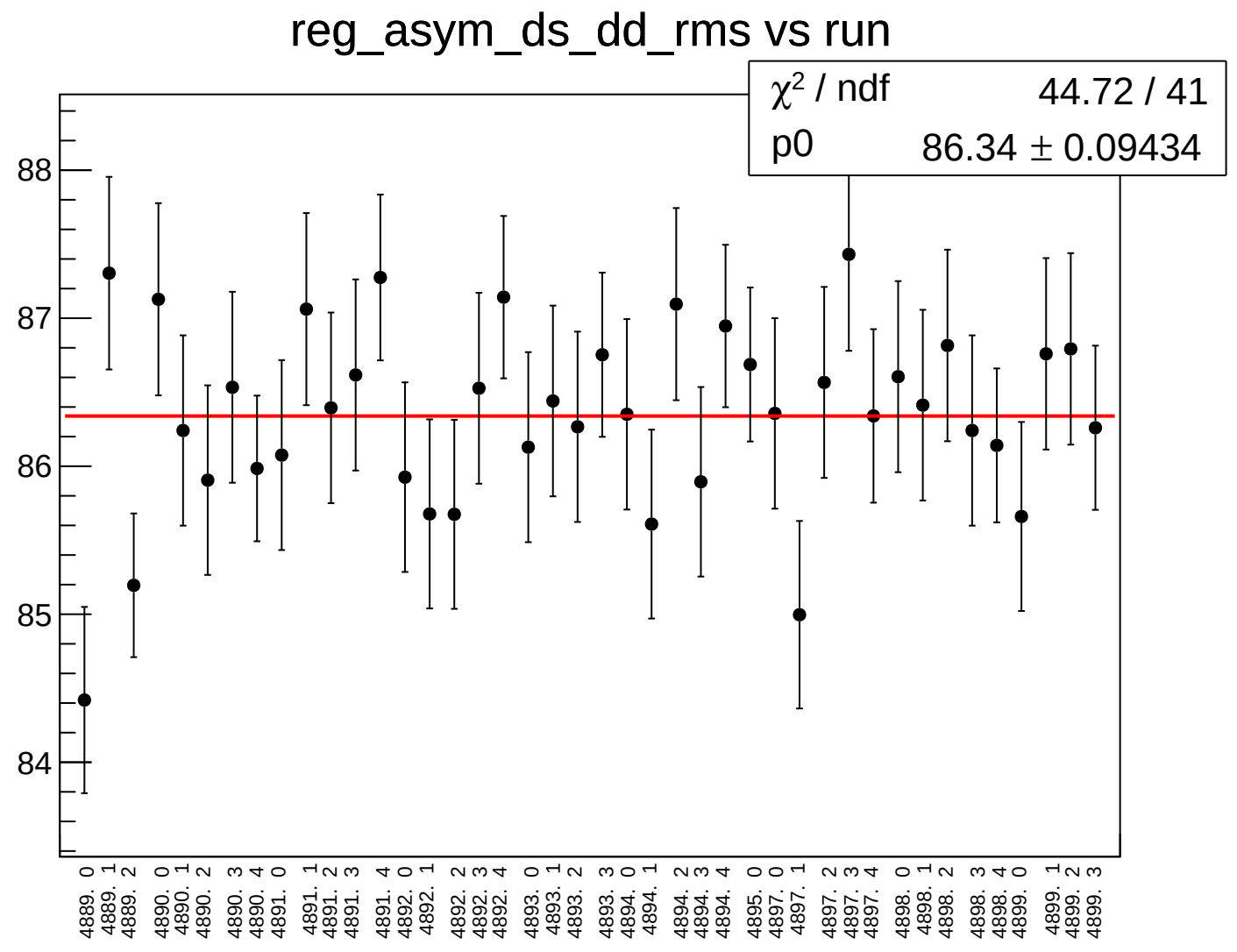

asym_ds_avg_correction_rms vs run
χ² / ndf 6338 / 41
p0 275.2 ± 0.3019
340
320
300
280
260
240
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

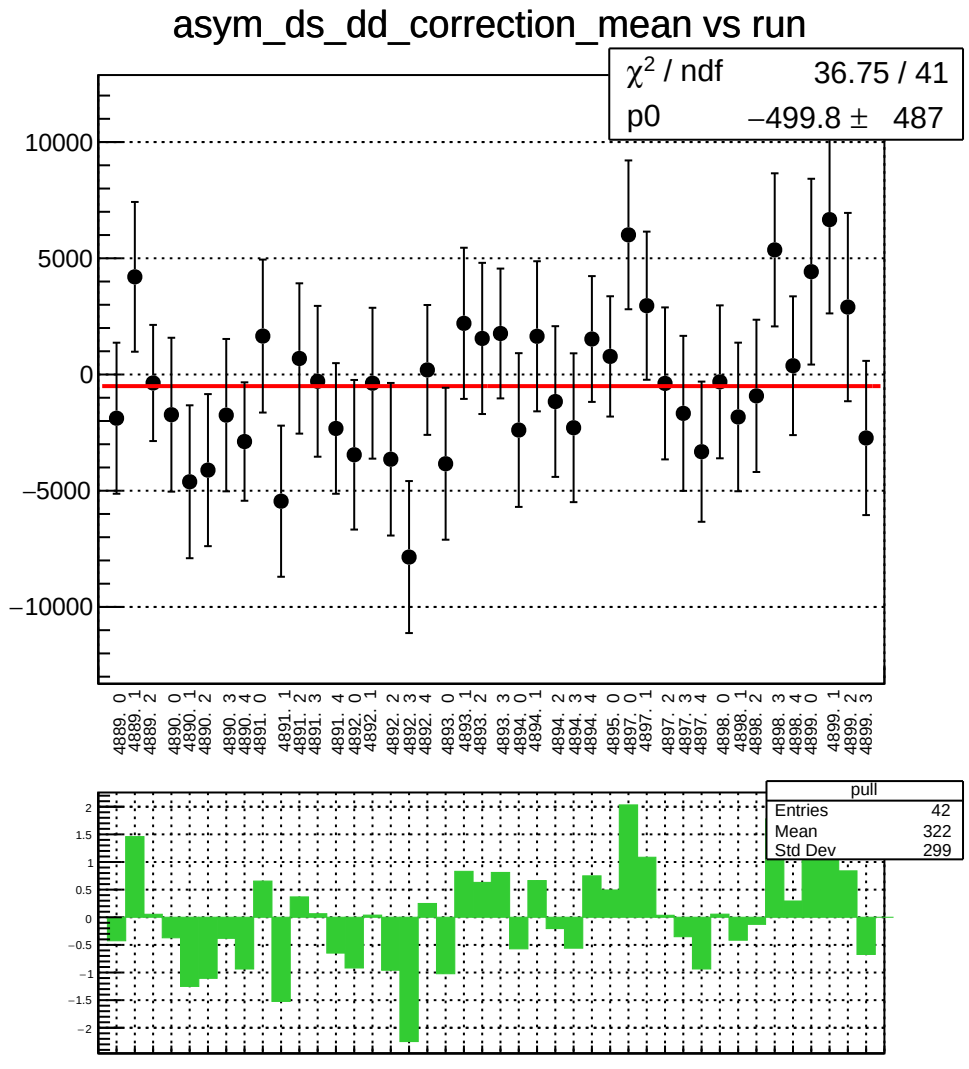

asym_ds_avg_mean vs run
χ² / ndf 48.26 / 41
p0 1622 ± 450.2
15000
10000
5000
0
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −52.83
Std Dev 79.96
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.01797
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

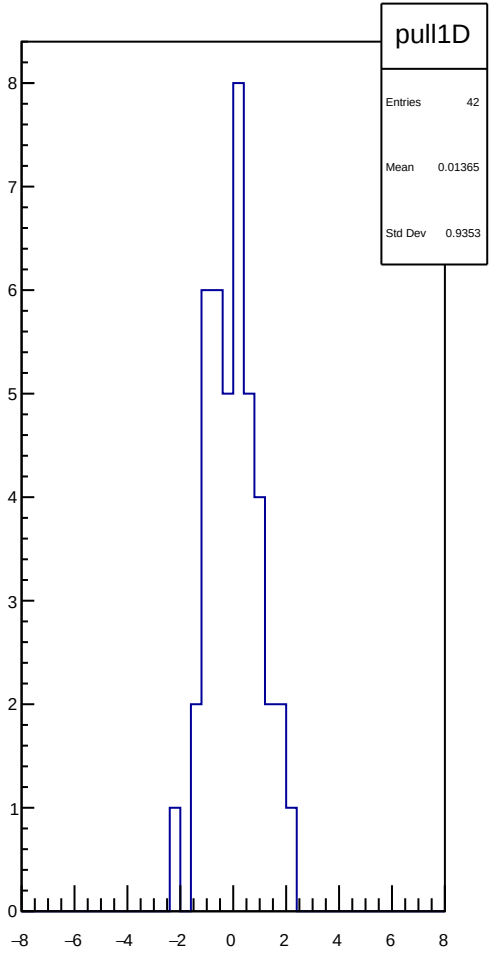

asym_ds_avg_rms vs run
χ^2 / ndf 5189 / 41
p0 290.4 ± 0.3183
360
340
320
300
280
260
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

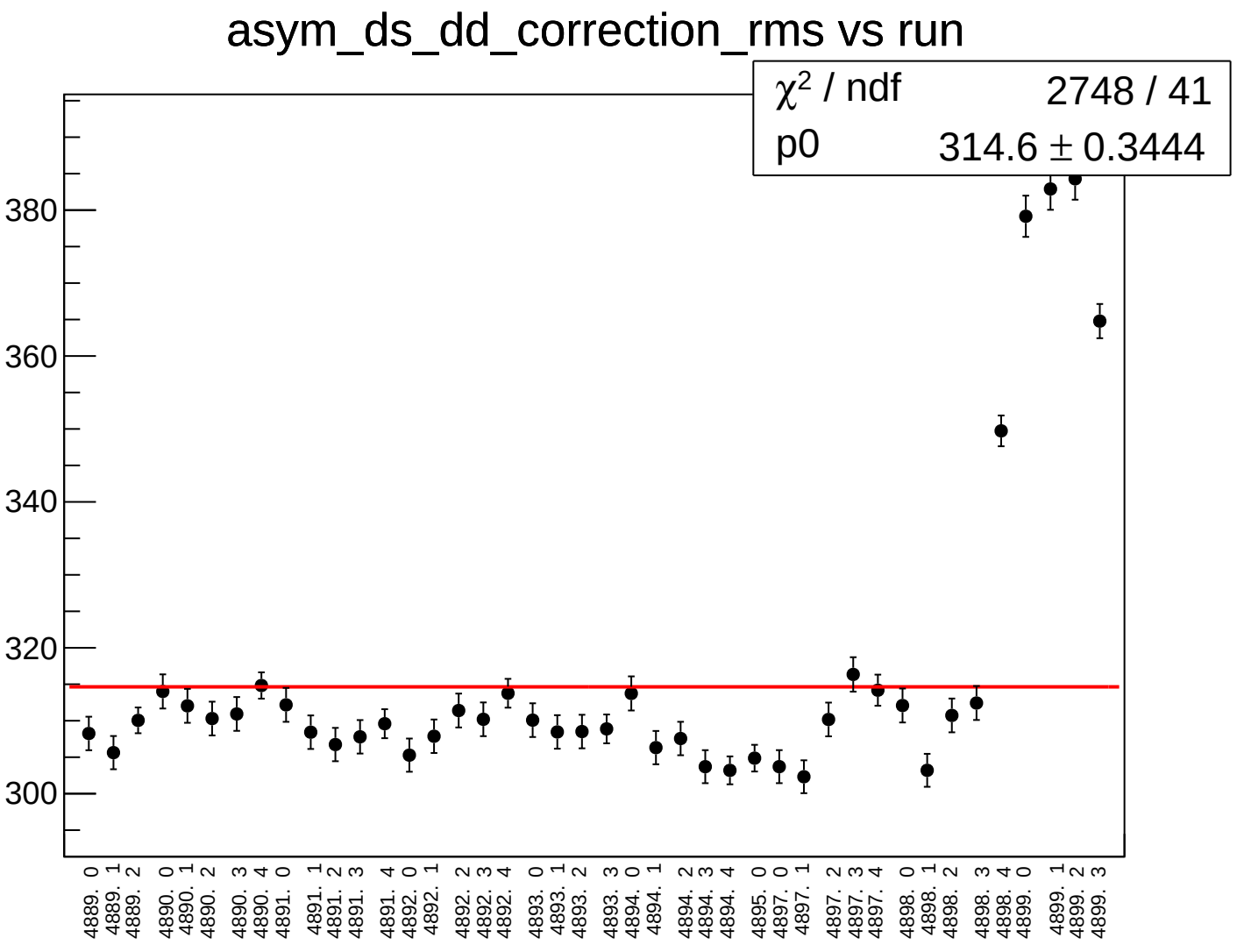

reg_asym_ds_dd_mean vs run
χ² / ndf 37.14 / 41
p0 −9.267 ± 133.4
pull
Entries 42
Mean −28.55
Std Dev 75.79

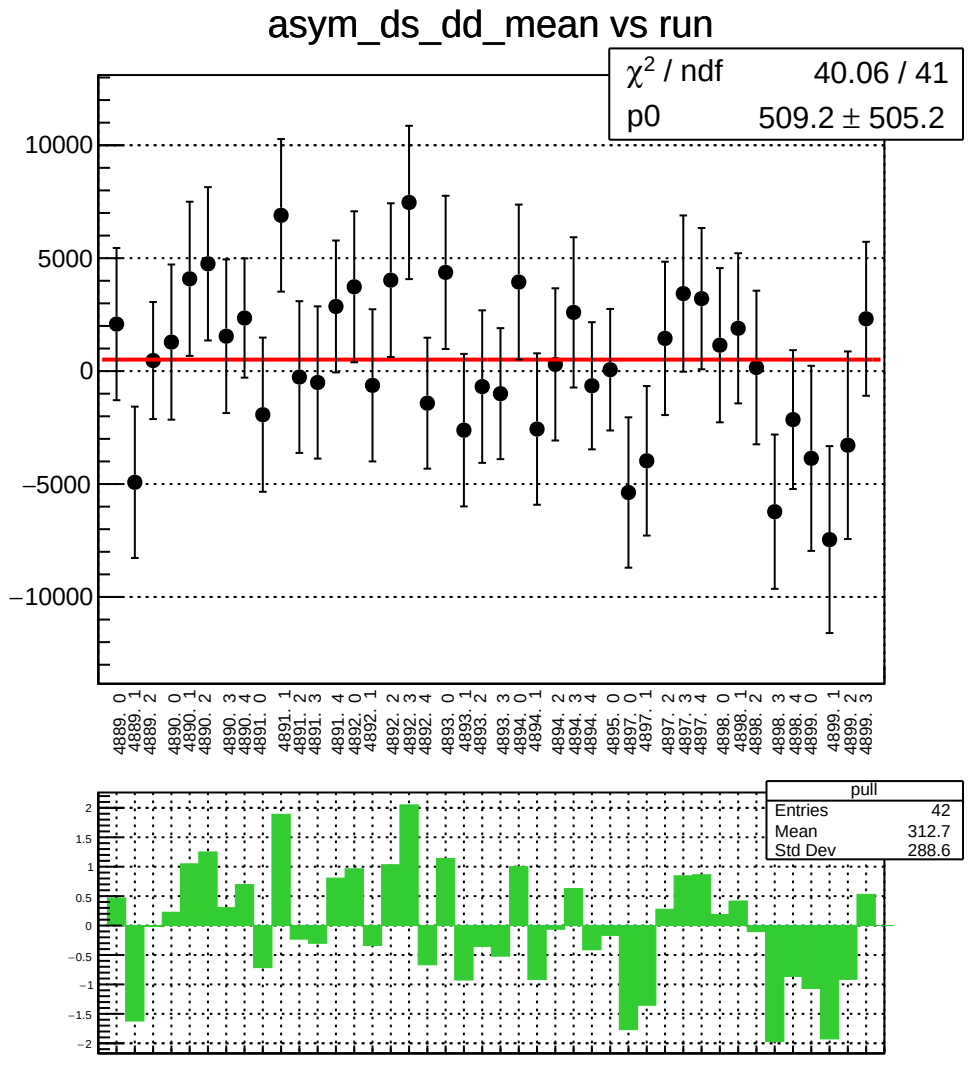

pull1D
Entries 42
Mean 0.00959
Std Dev 0.9403

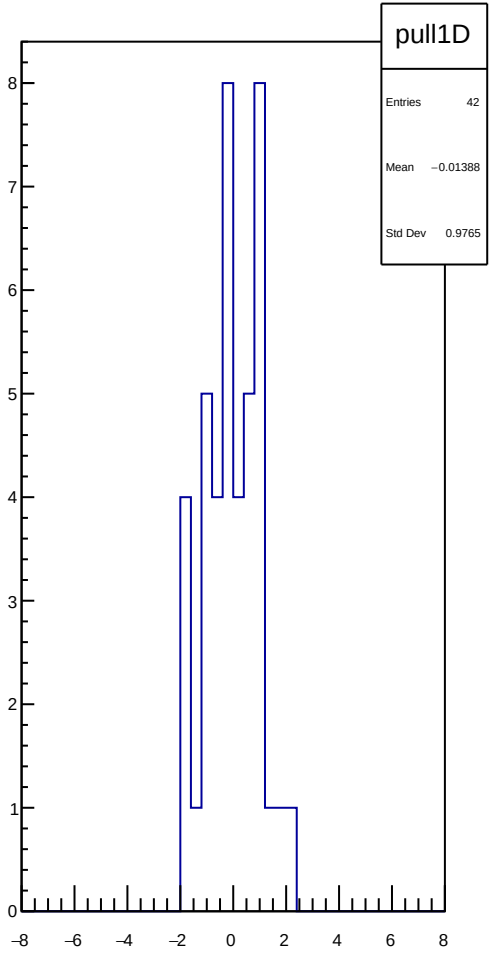

reg_asym_ds_dd_rms vs run
χ² / ndf 44.72 / 41
p0 86.34 ± 0.09434
88
87
86
85
84
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

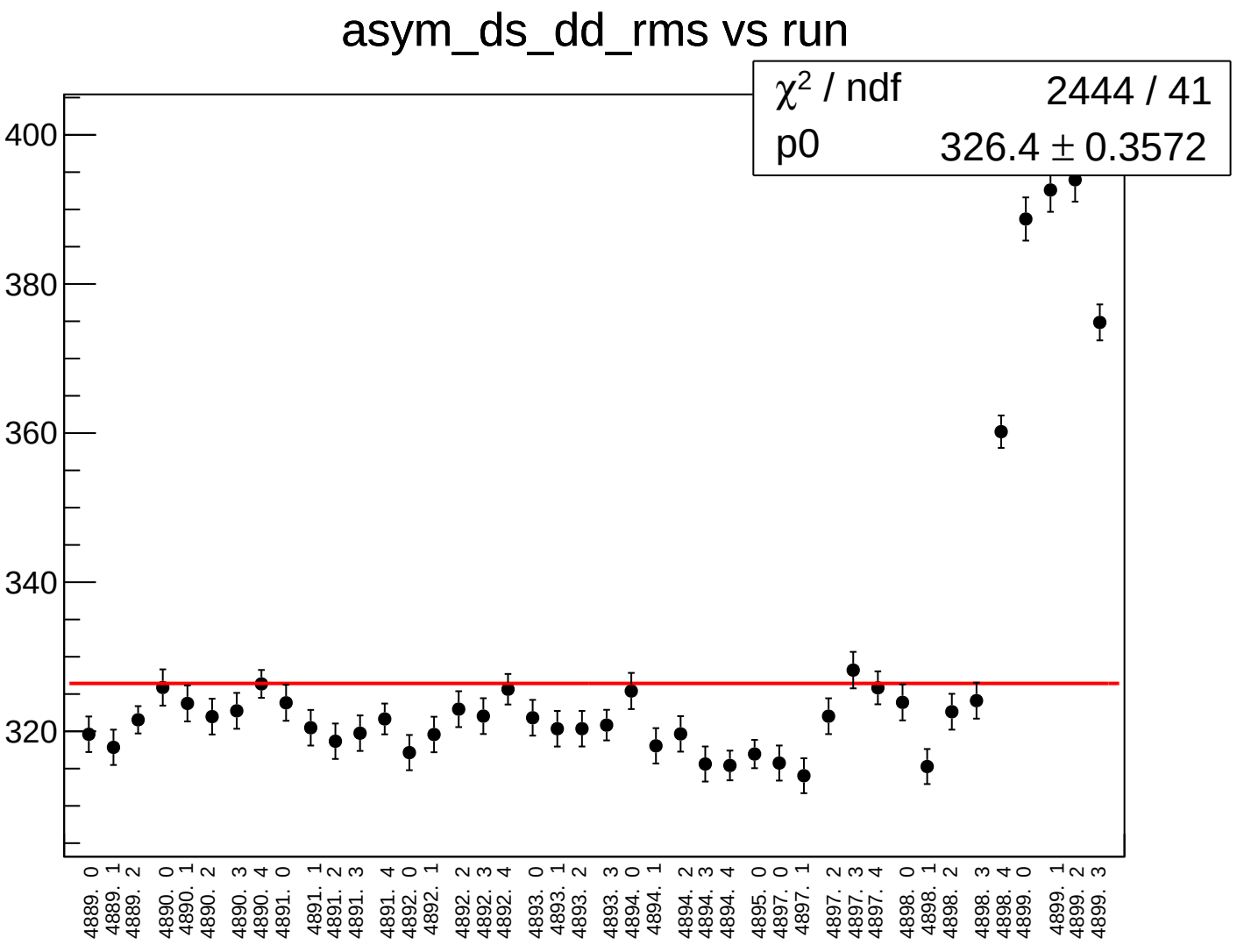

asym_ds_dd_correction_mean vs run
χ² / ndf 36.75 / 41
p0 −499.8 ± 487
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 322
Std Dev 299
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

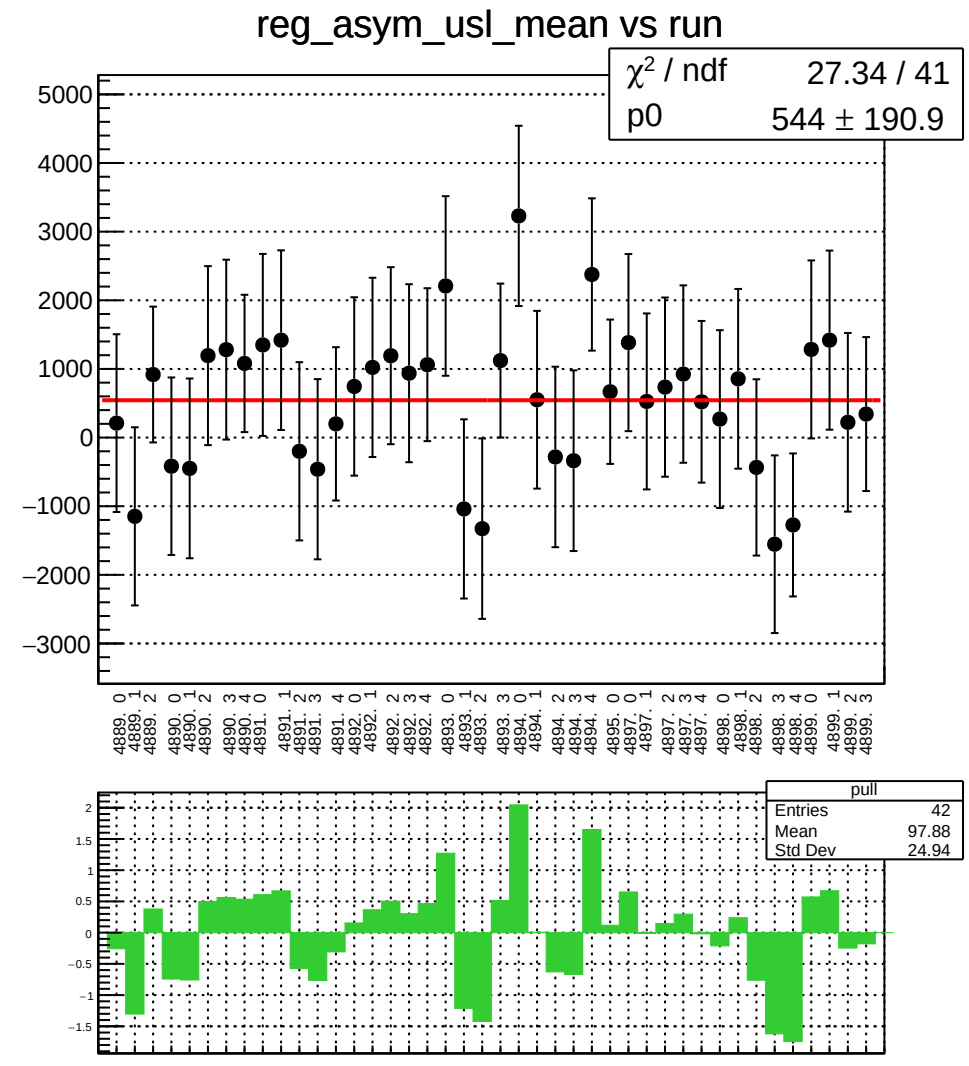

pull1D
Entries 42
Mean 0.01365
Std Dev 0.9353
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

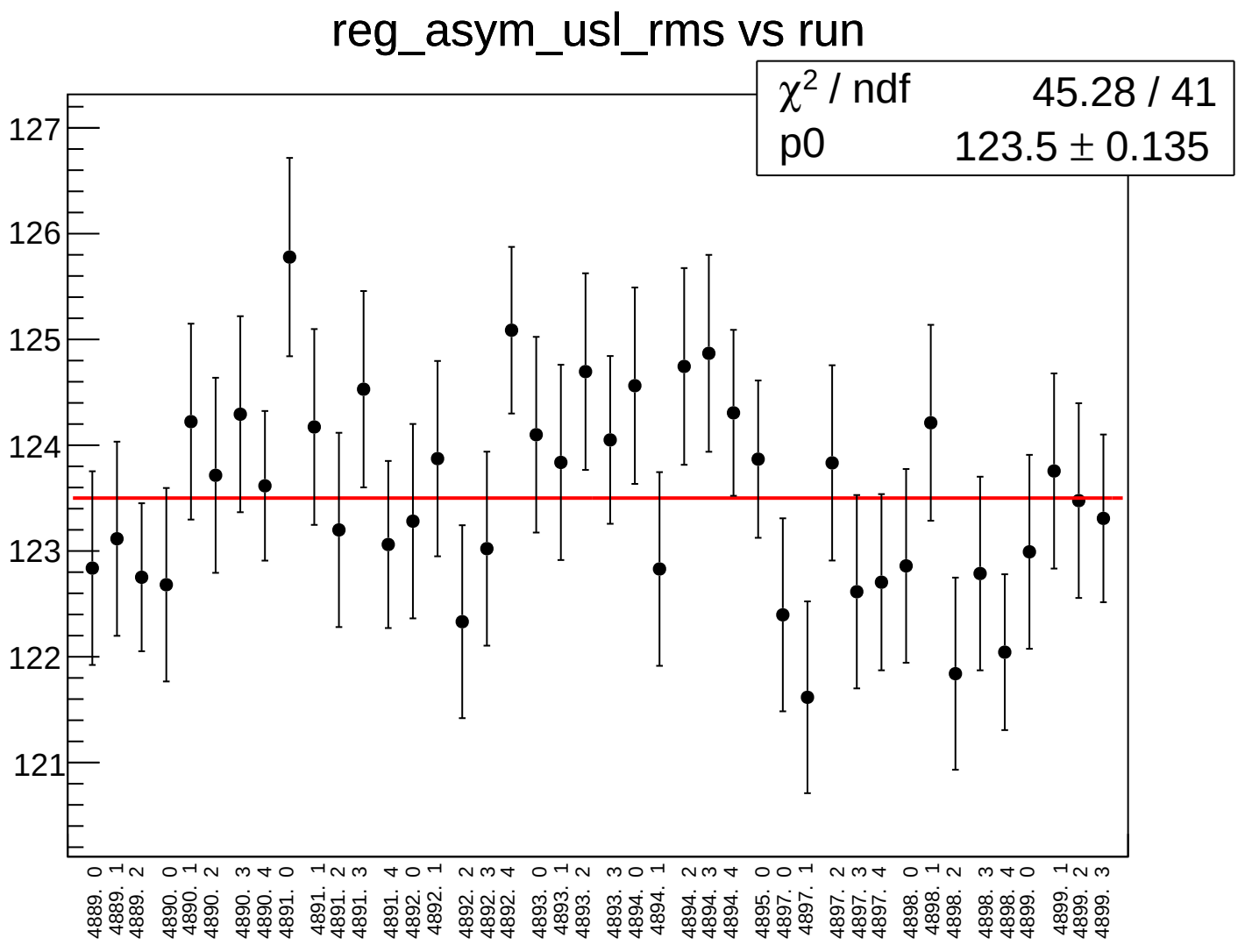

asym_ds_dd_correction_rms vs run
χ² / ndf 2748 / 41
p0 314.6 ± 0.3444
380
360
340
320
300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

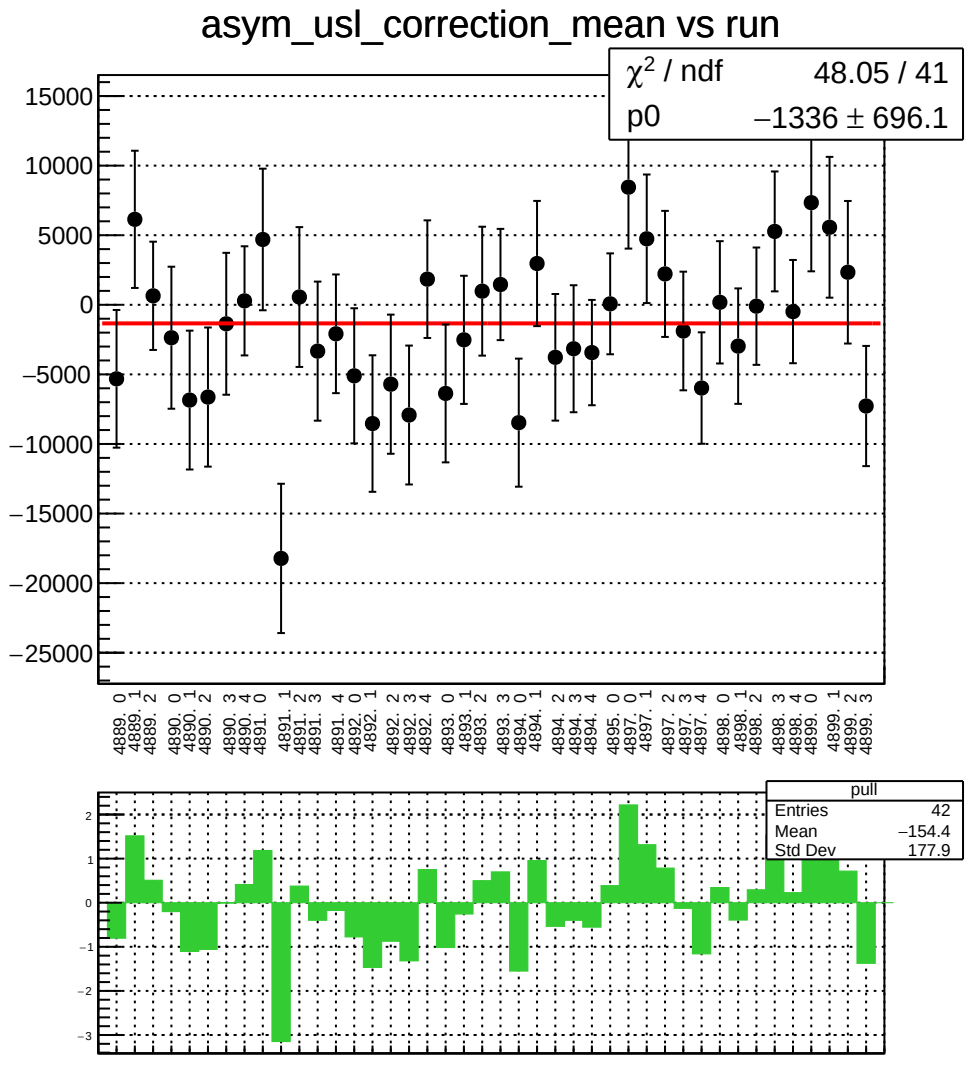

asym_ds_dd_mean vs run
χ^2 / ndf 40.06 / 41
p0 509.2 ± 505.2
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 312.7
Std Dev 288.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

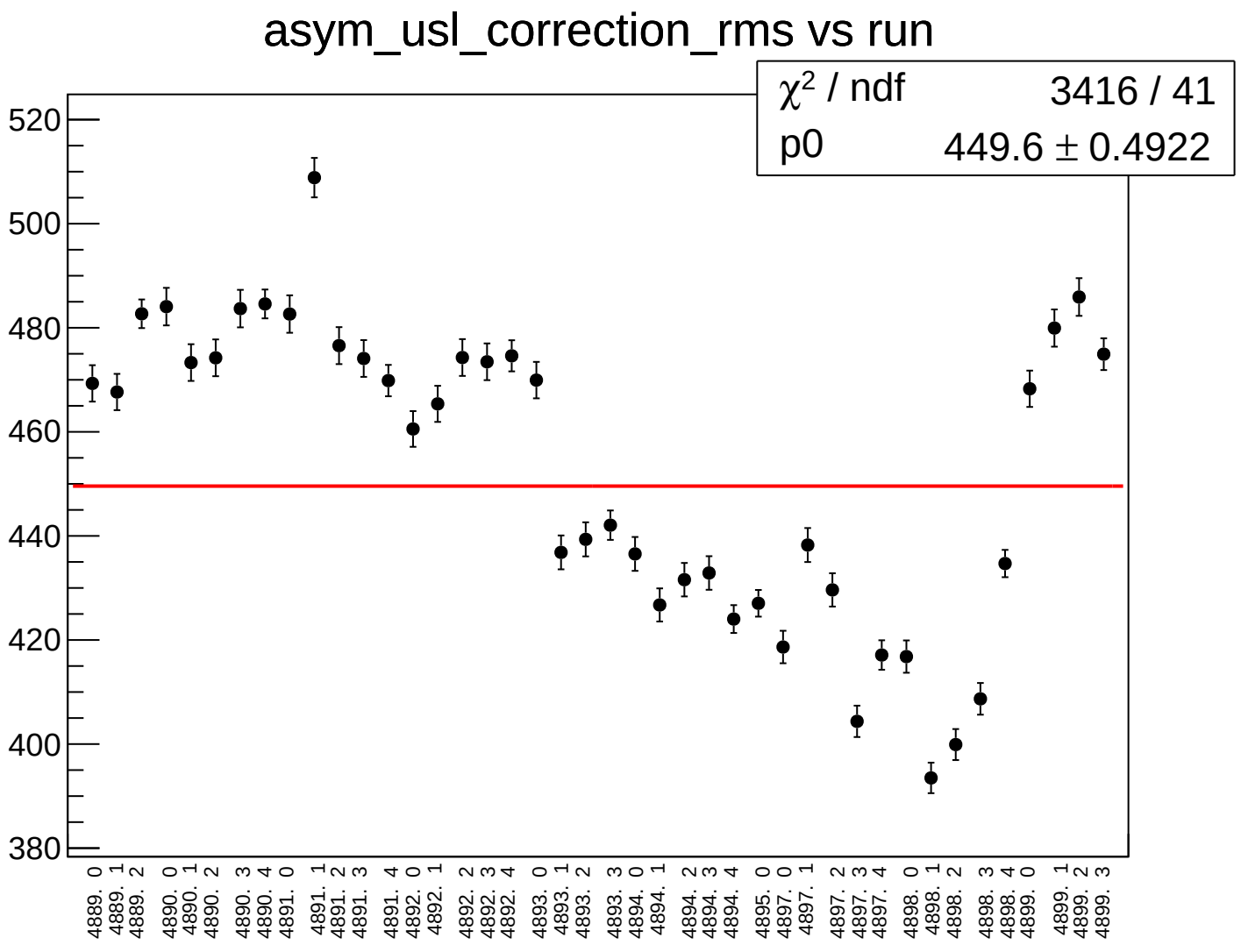

pull1D
Entries 42
Mean −0.01388
Std Dev 0.9765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

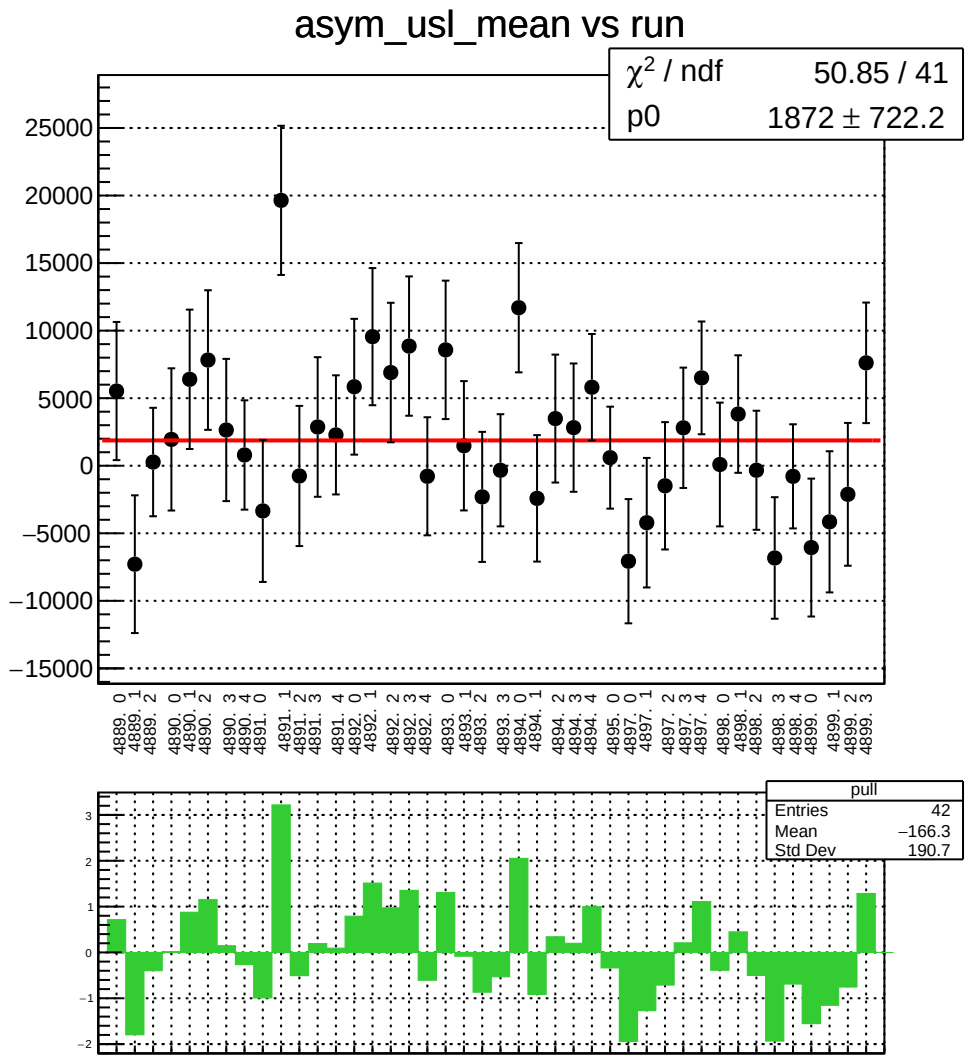

asym_ds_dd_rms vs run
χ² / ndf 2444 / 41
p0 326.4 ± 0.3572
400
380
360
340
320
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

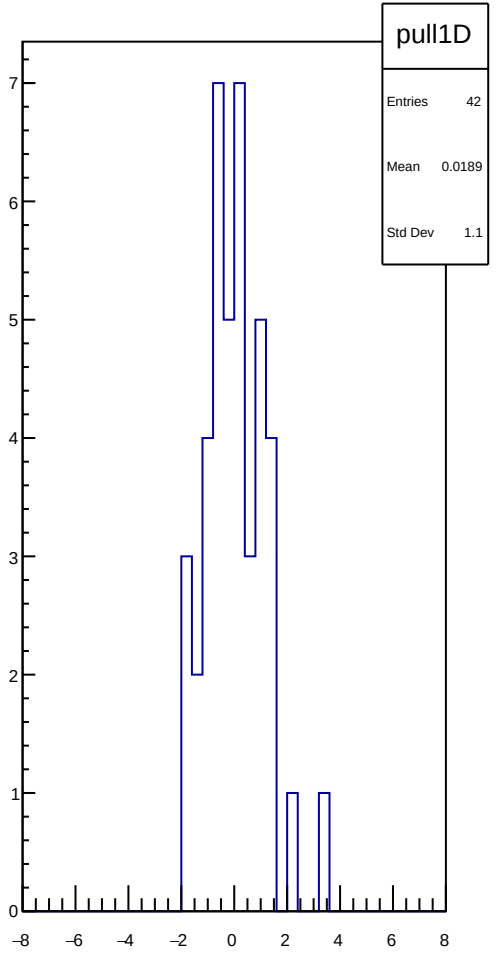

reg_asym_usl_mean vs run
χ² / ndf 27.34 / 41
p0 544 ± 190.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 97.88
Std Dev 24.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.005175
Std Dev 0.8068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

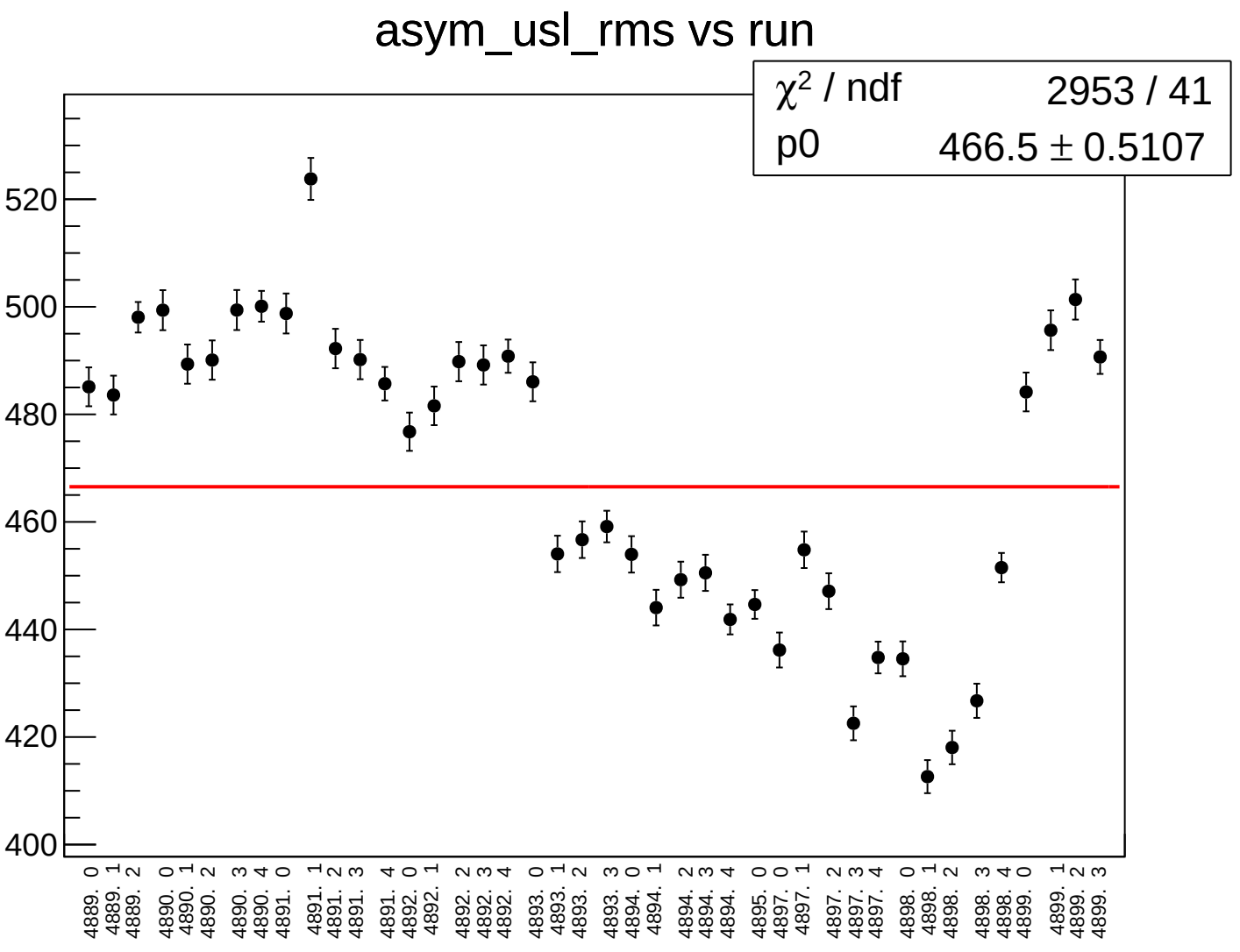

reg_asym_usl_rms vs run
χ² / ndf 45.28 / 41
p0 123.5 ± 0.135
127
126
125
124
123
122
121
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

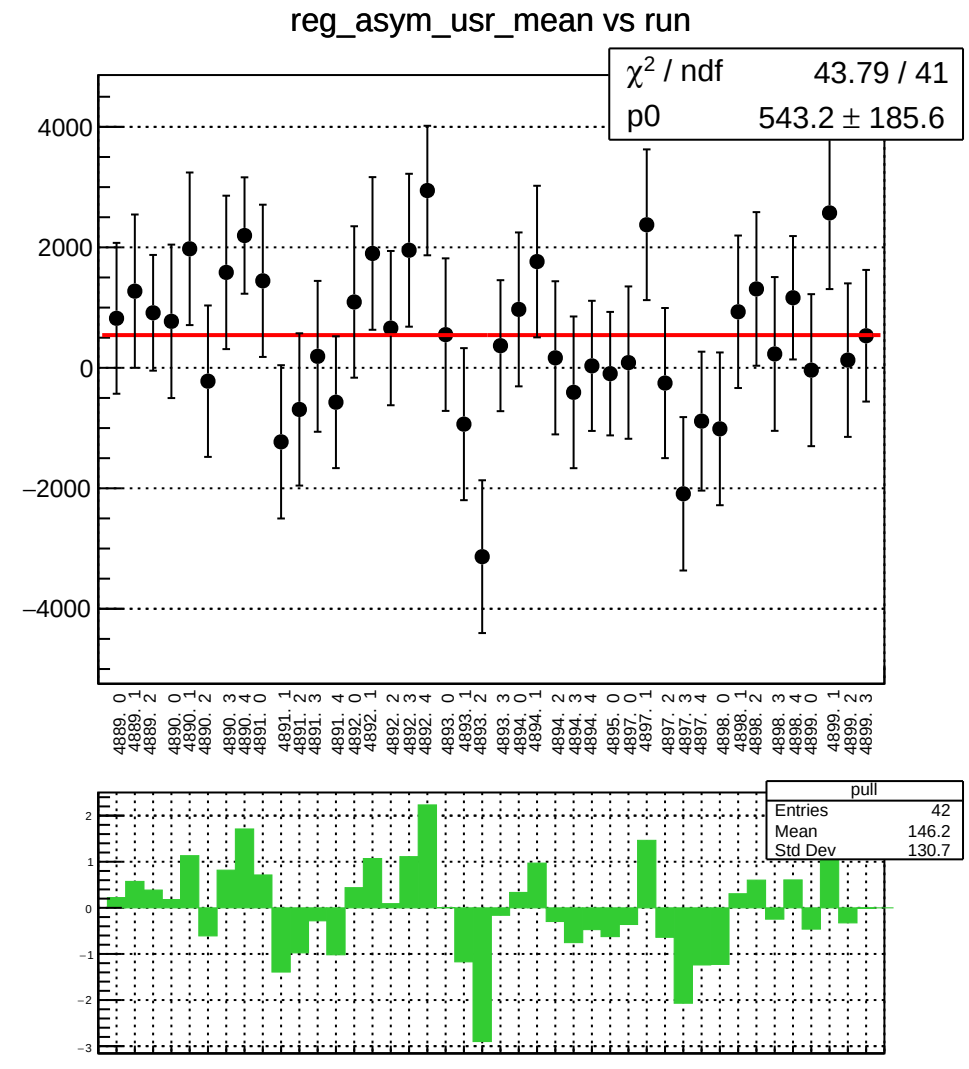

asym_usl_correction_mean vs run
χ² / ndf 48.05 / 41
p0 −1336 ± 696.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −154.4
Std Dev 177.9
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.02016
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

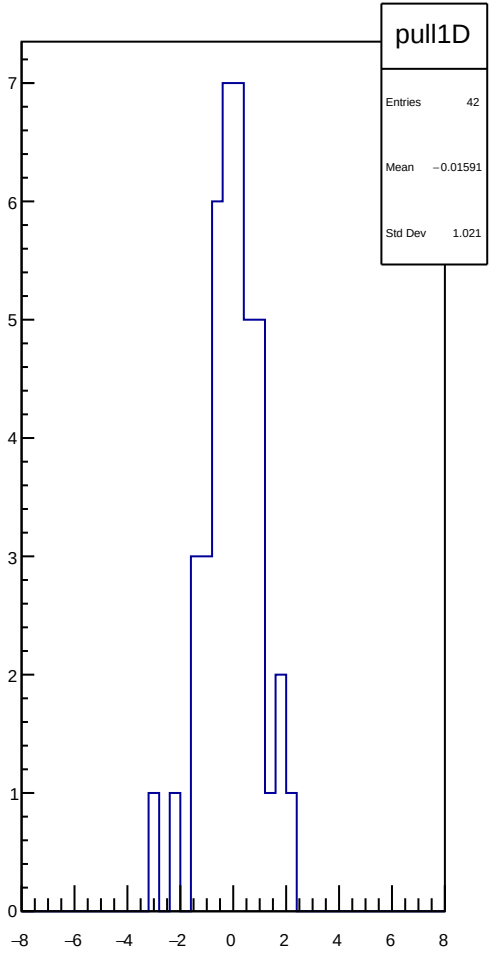

asym_usl_correction_rms vs run
χ² / ndf 3416 / 41
p0 449.6 ± 0.4922
520
500
480
460
440
420
400
380
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

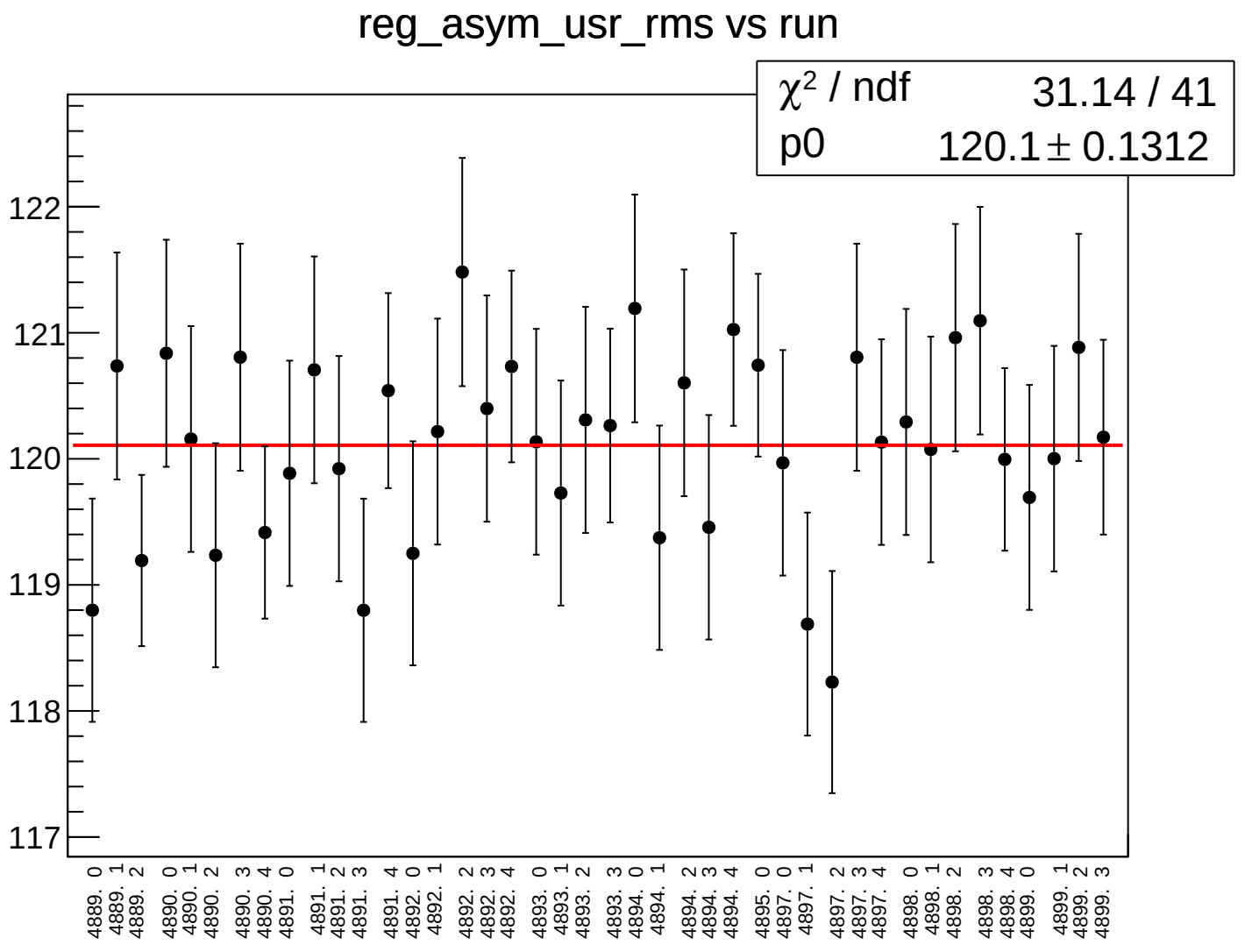

asym_usl_mean vs run
χ² / ndf 50.85 / 41
p0 1872 ± 722.2
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −166.3
Std Dev 190.7
3
2
1
0
−1
−2

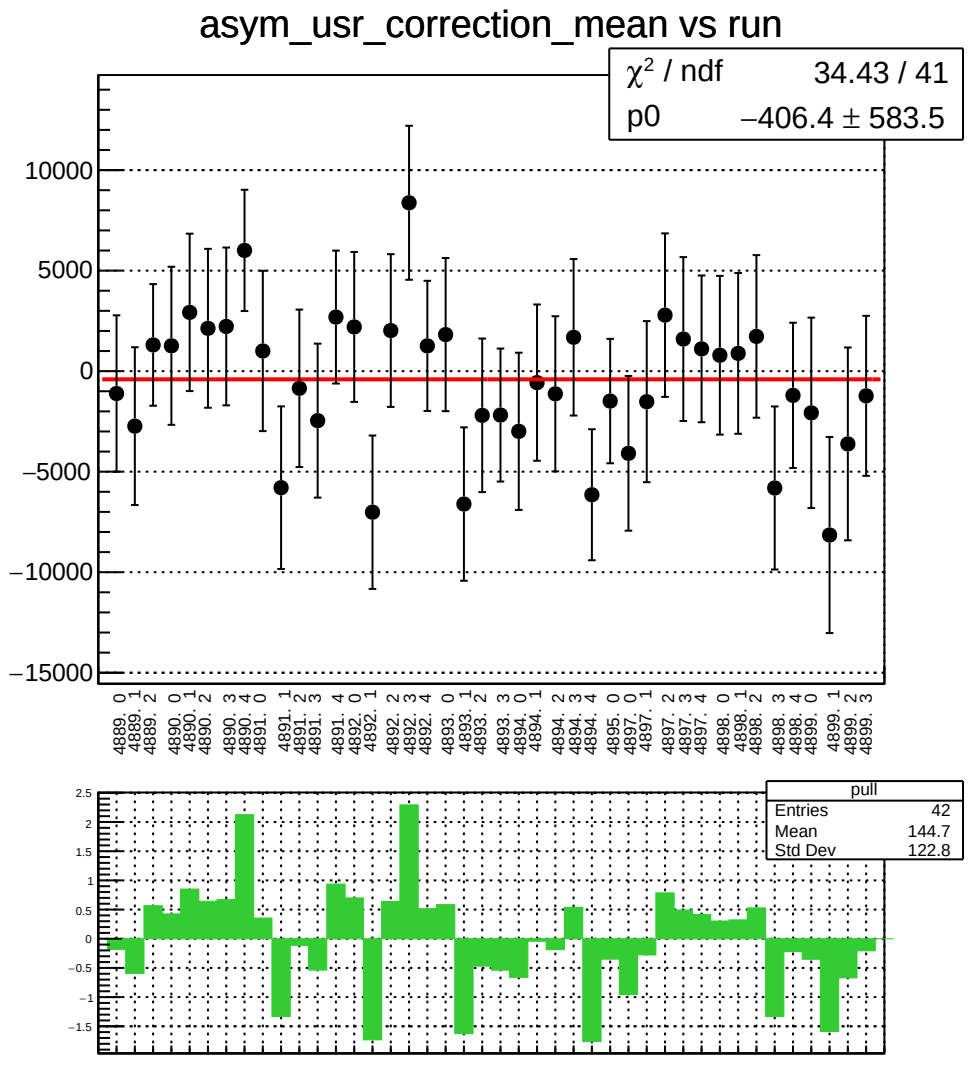

pull1D
Entries 42
Mean 0.0189
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

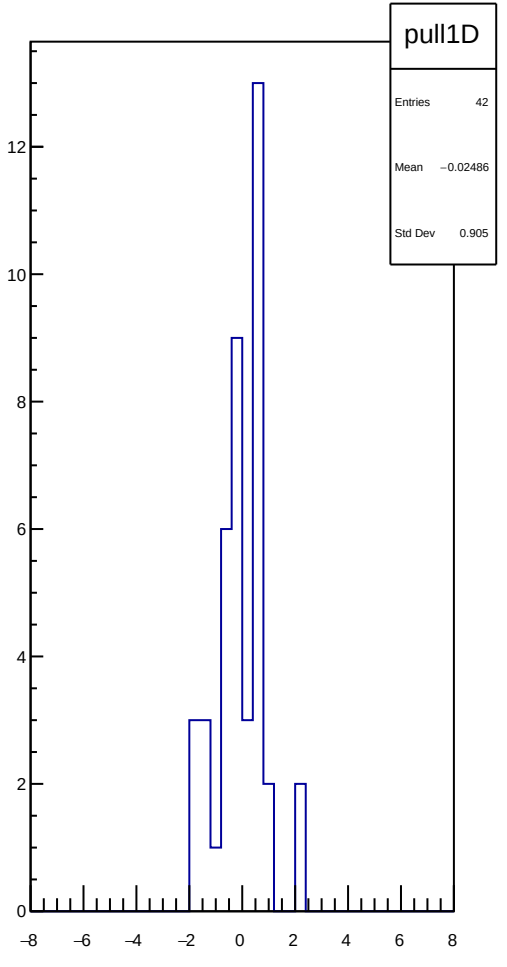

asym_usl_rms vs run
χ² / ndf 2953 / 41
p0 466.5 ± 0.5107
520
500
480
460
440
420
400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

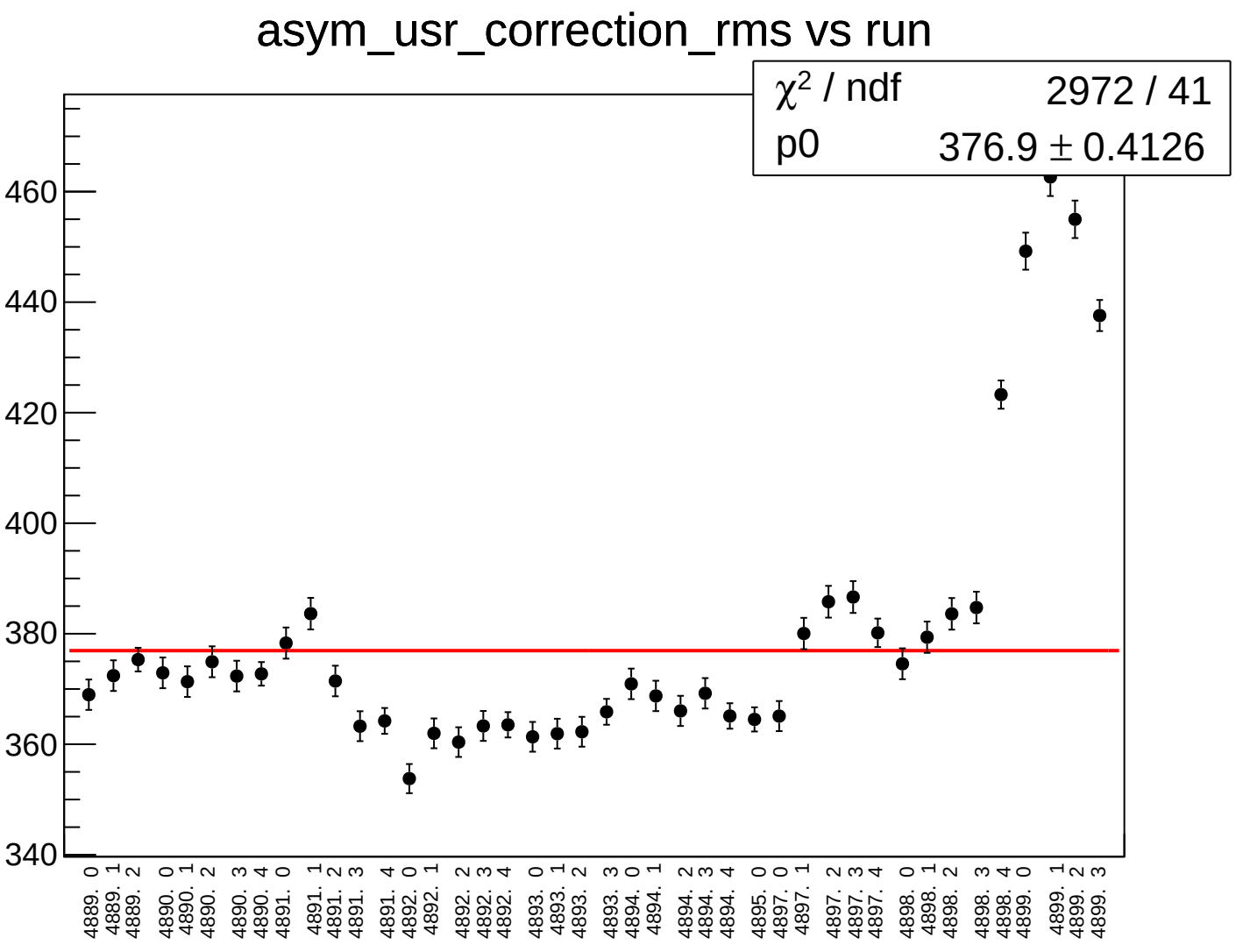

reg_asym_usr_mean vs run
χ² / ndf 43.79 / 41
p0 543.2 ± 185.6
4000
2000
0
−2000
−4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 146.2
Std Dev 130.7
2
1
0
−1
−2
−3

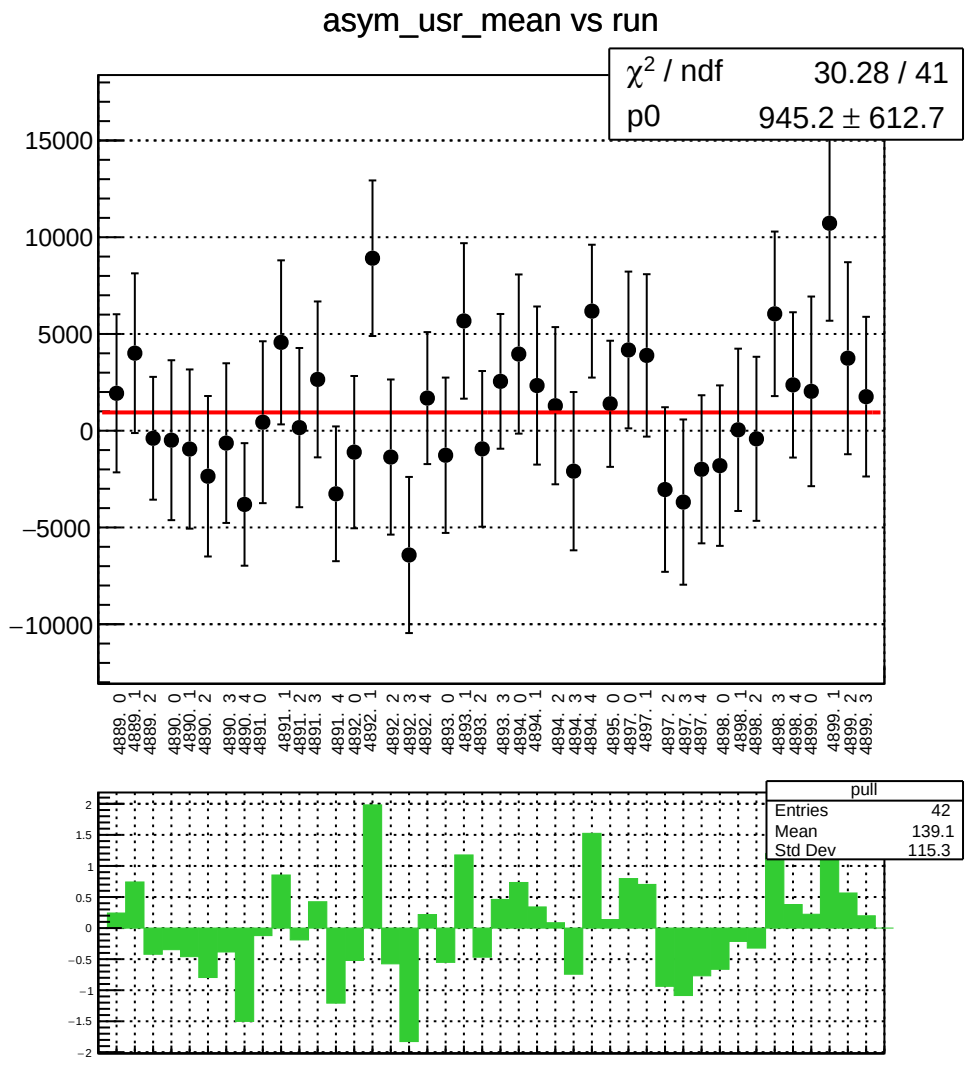

pull1D
Entries 42
Mean −0.01591
Std Dev 1.021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

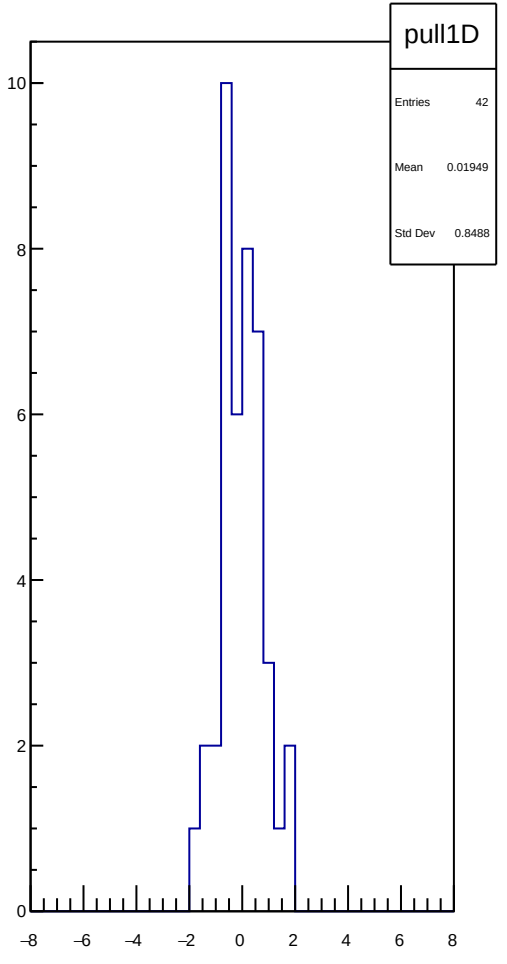

reg_asym_usr_rms vs run
χ² / ndf 31.14 / 41
p0 120.1 ± 0.1312
122
121
120
119
118
117
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

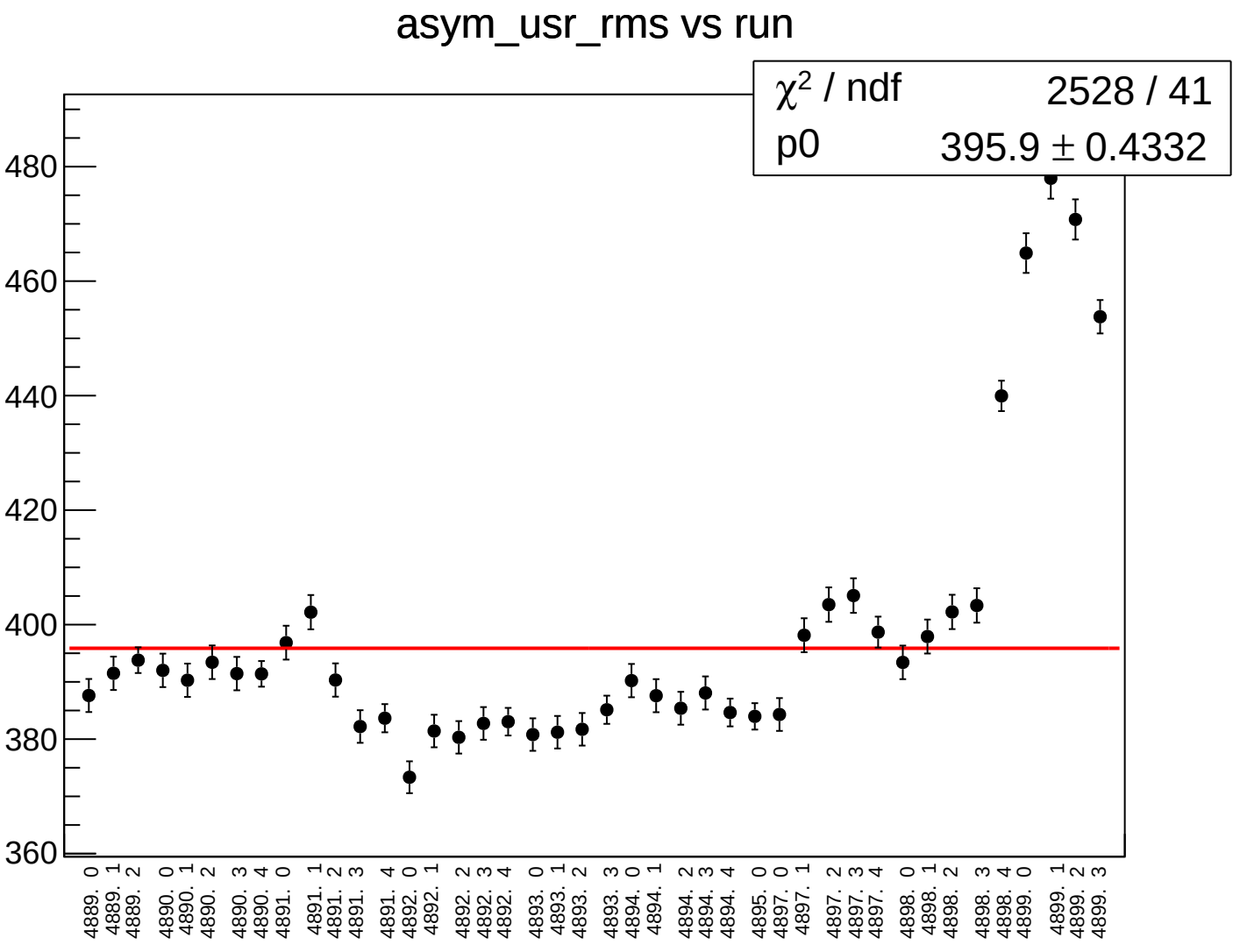

asym_usr_correction_mean vs run
χ² / ndf 34.43 / 41
p0 −406.4 ± 583.5
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 144.7
Std Dev 122.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

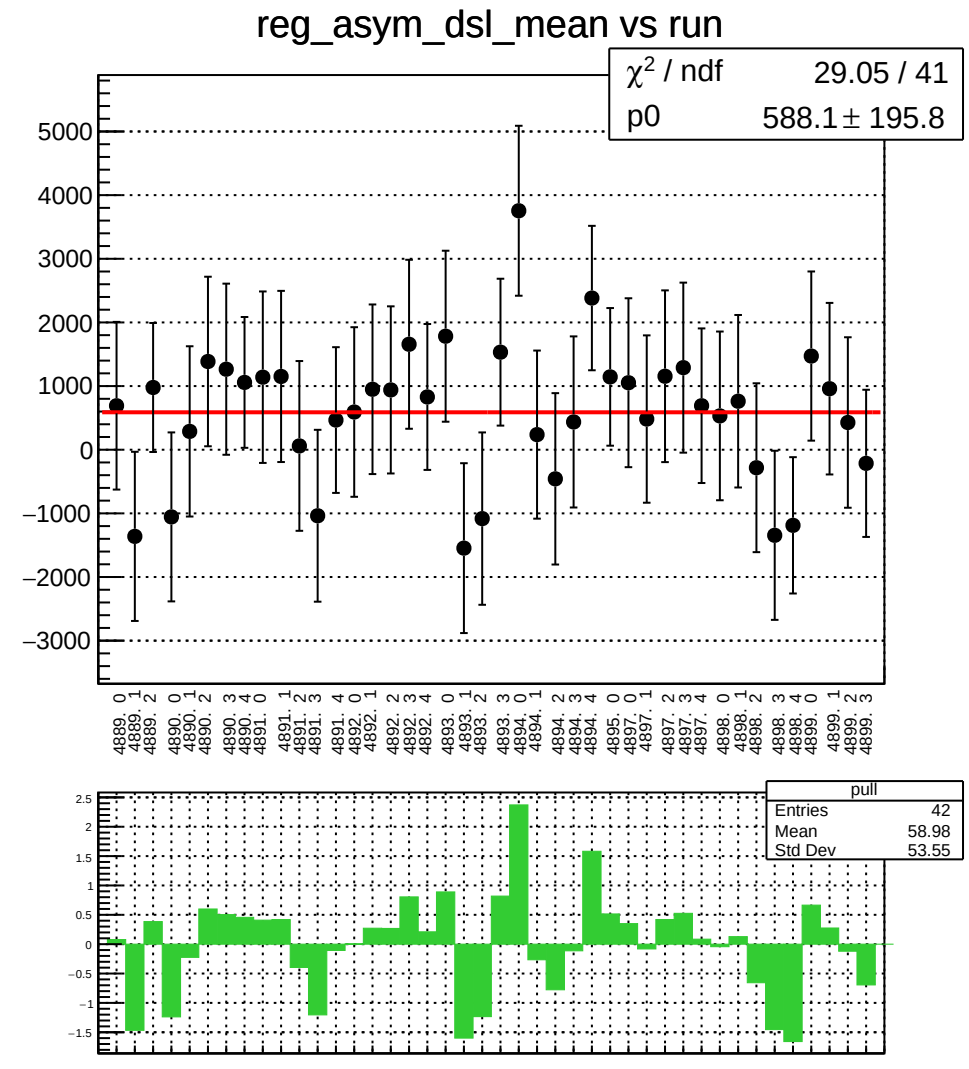

pull1D
Entries 42
Mean −0.02486
Std Dev 0.905
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

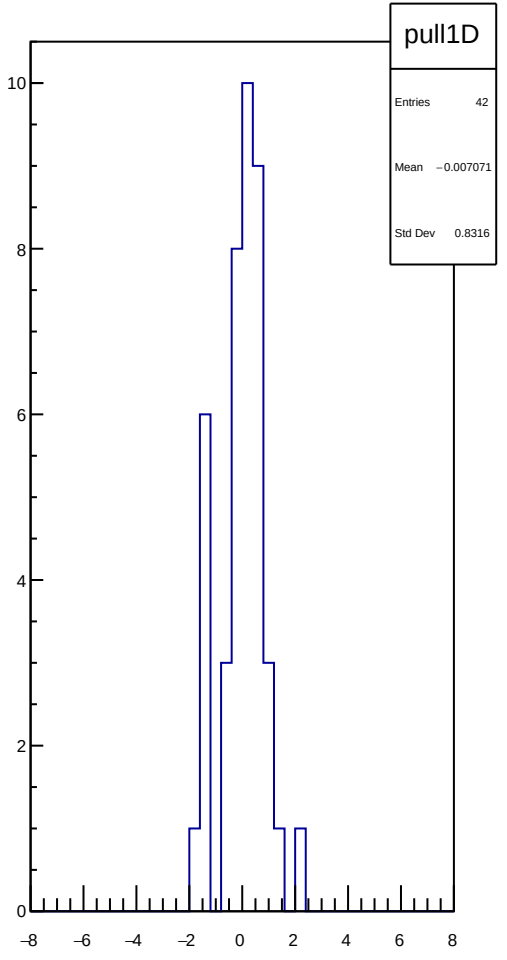

asym_usr_correction_rms vs run
χ² / ndf 2972 / 41
p0 376.9 ± 0.4126
460
440
420
400
380
360
340
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

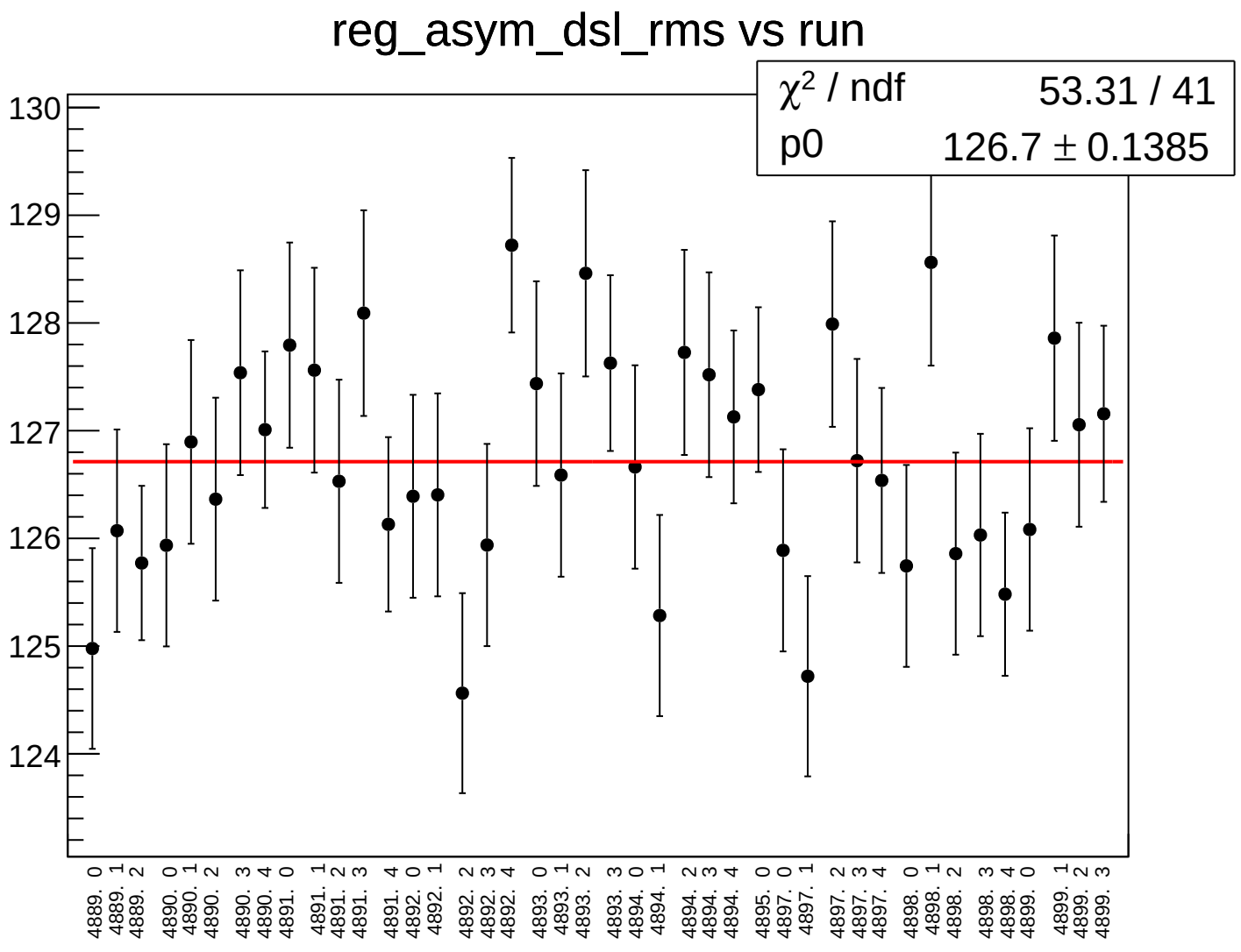

asym_usr_mean vs run
χ² / ndf 30.28 / 41
p0 945.2 ± 612.7
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 139.1
Std Dev 115.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

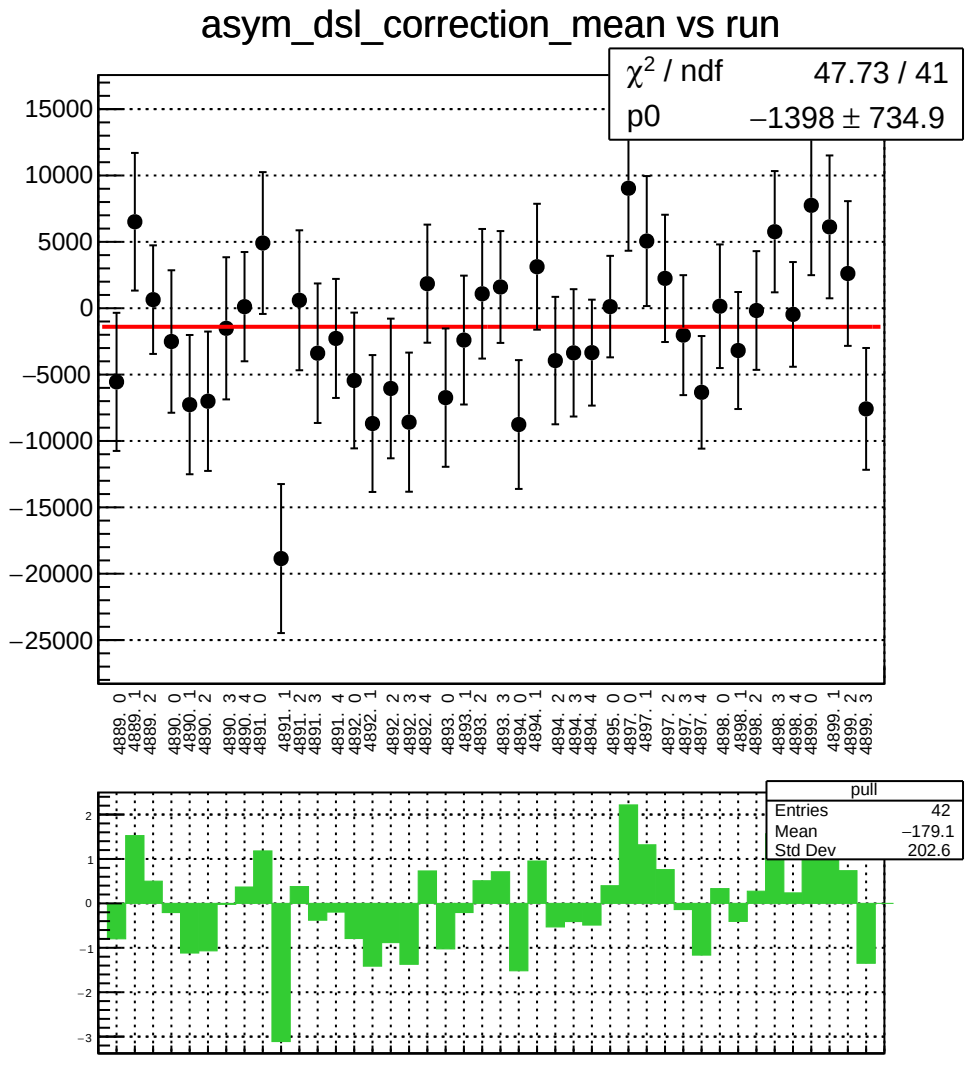

pull1D
Entries 42
Mean 0.01949
Std Dev 0.8488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

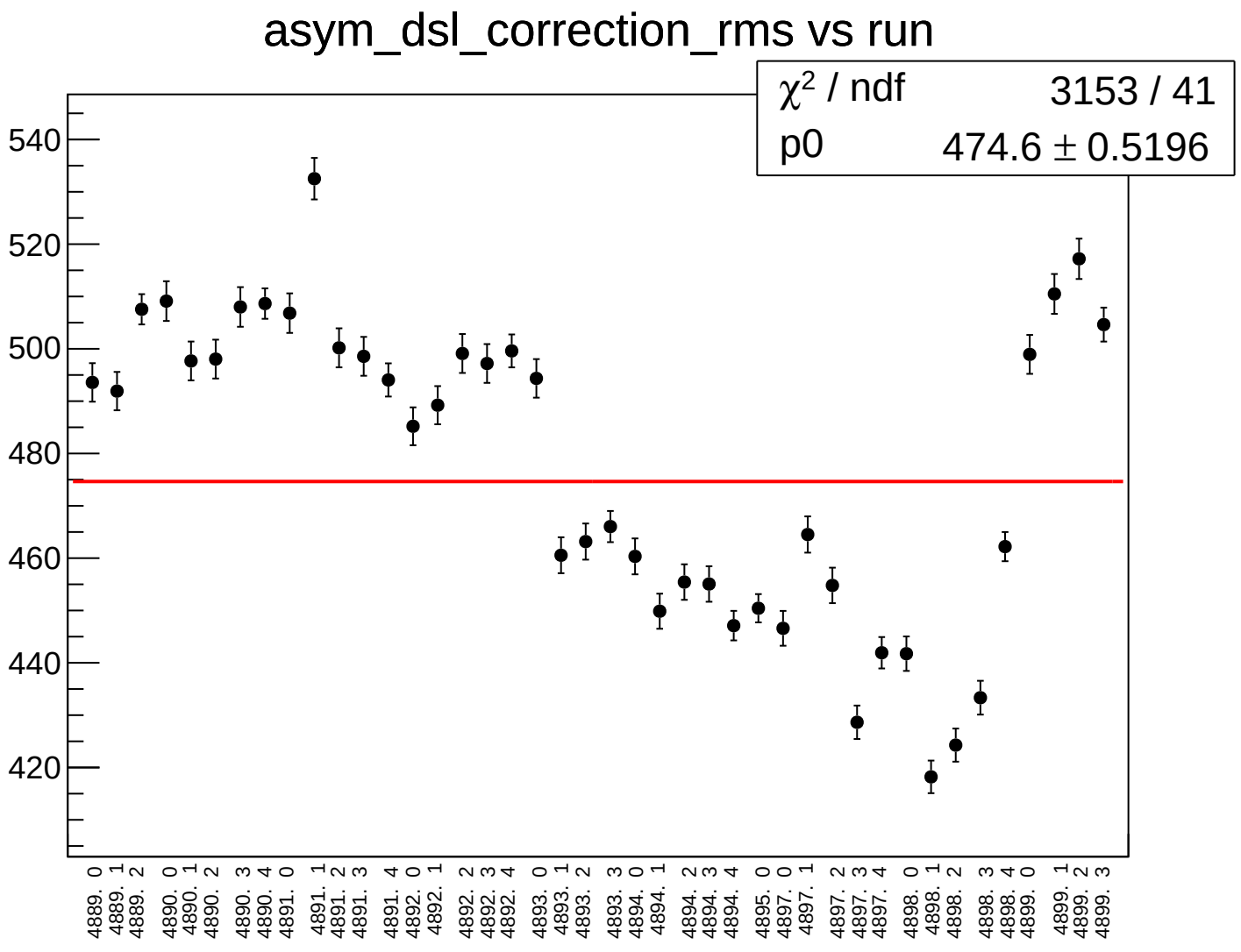

asym_usr_rms vs run
χ² / ndf 2528 / 41
p0 395.9 ± 0.4332
480
460
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

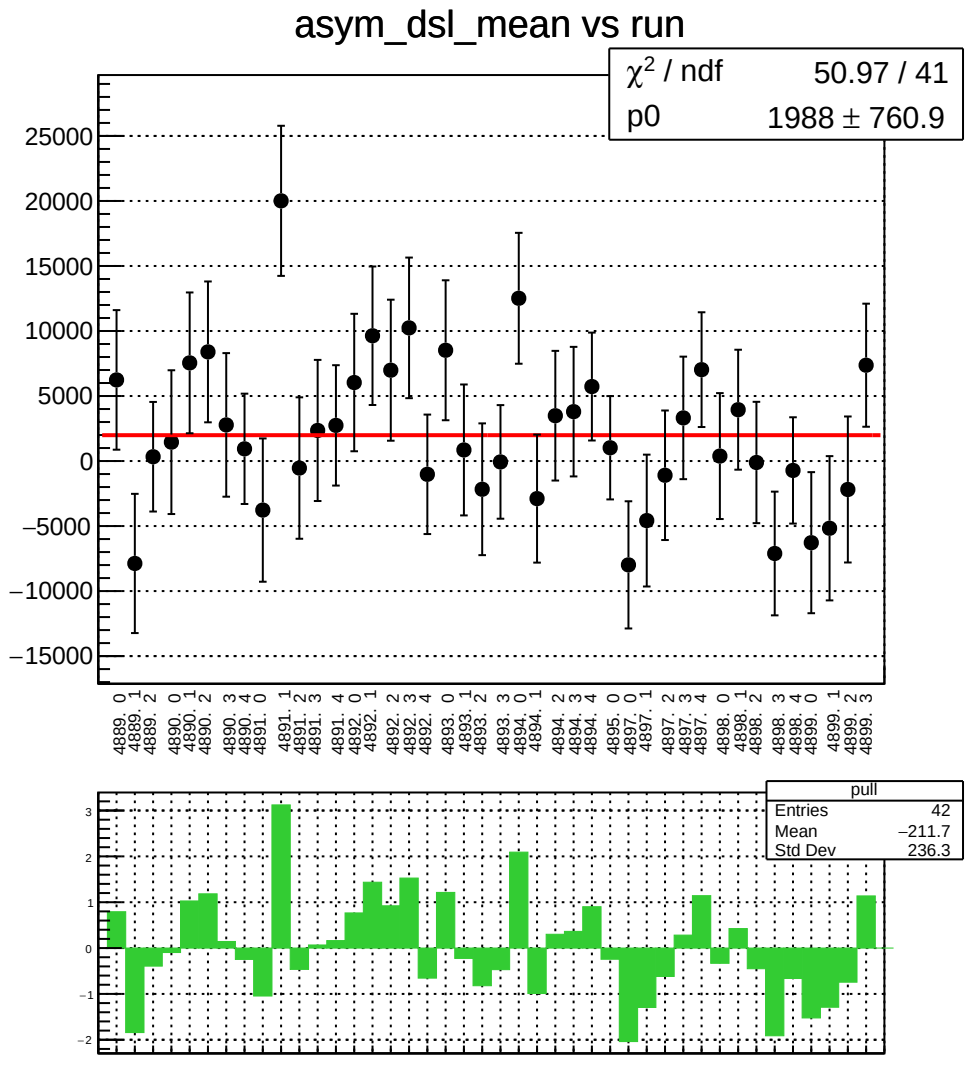

reg_asym_dsl_mean vs run
χ² / ndf 29.05 / 41
p0 588.1 ± 195.8
pull
Entries 42
Mean 58.98
Std Dev 53.55

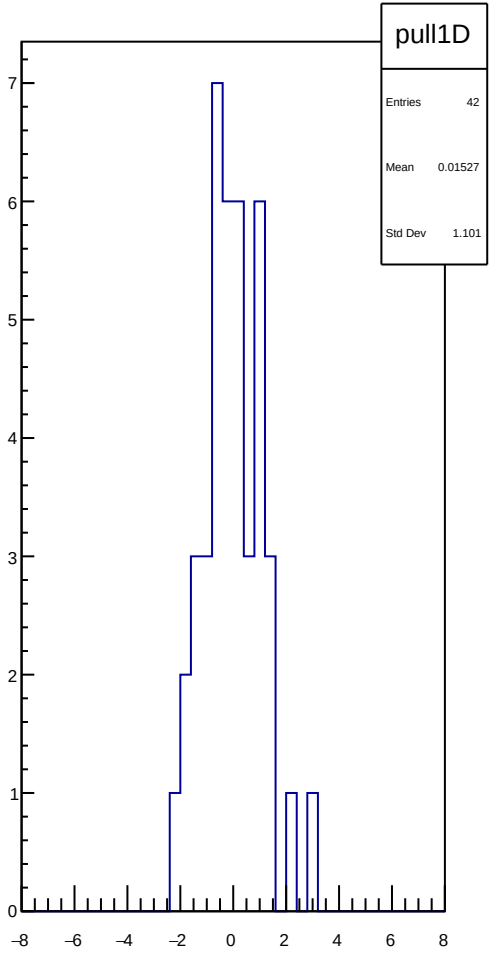

pull1D
Entries 42
Mean −0.007071
Std Dev 0.8316

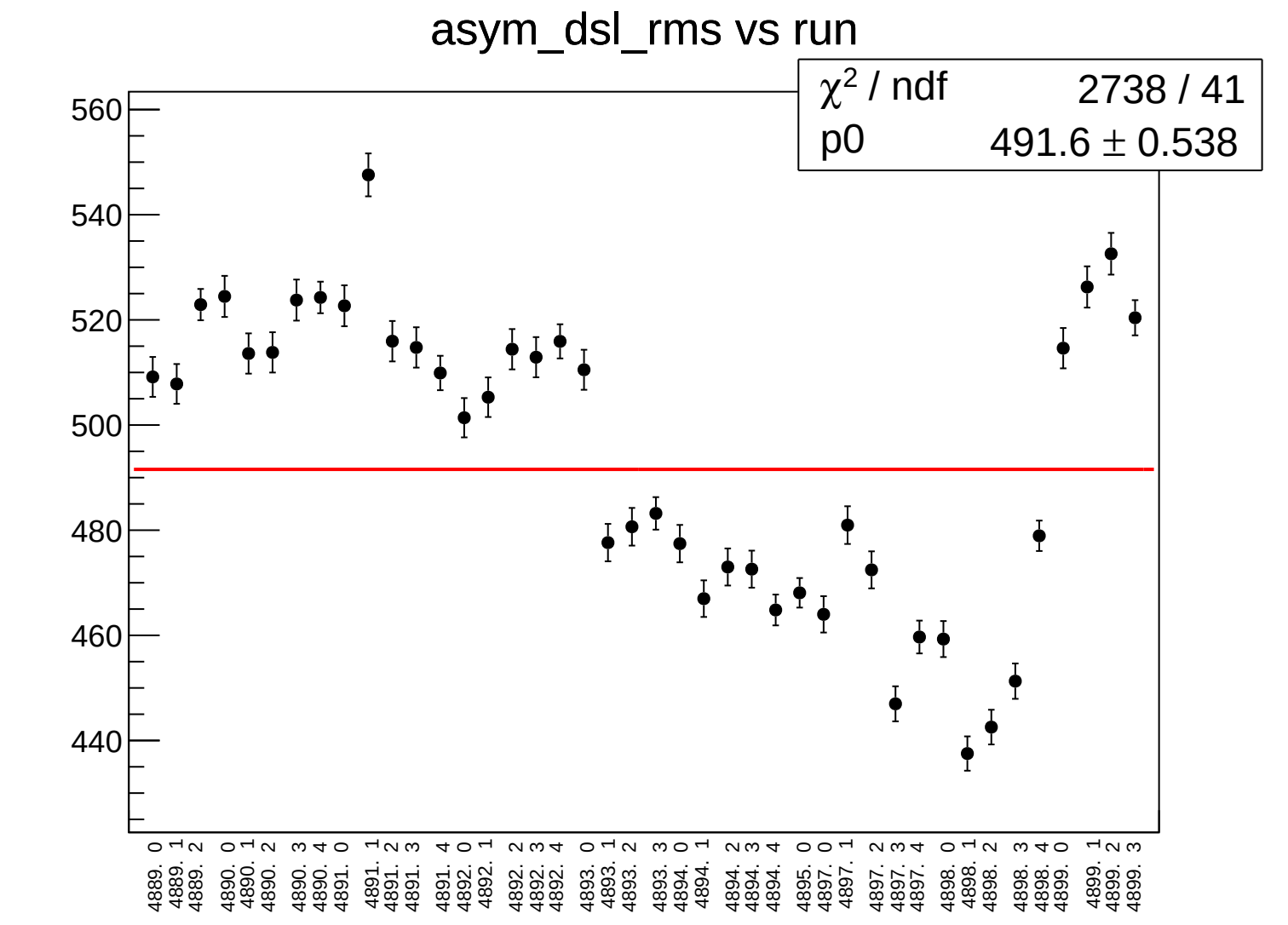

reg_asym_dsl_rms vs run
χ² / ndf 53.31 / 41
p0 126.7 ± 0.1385
130
129
128
127
126
125
124
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

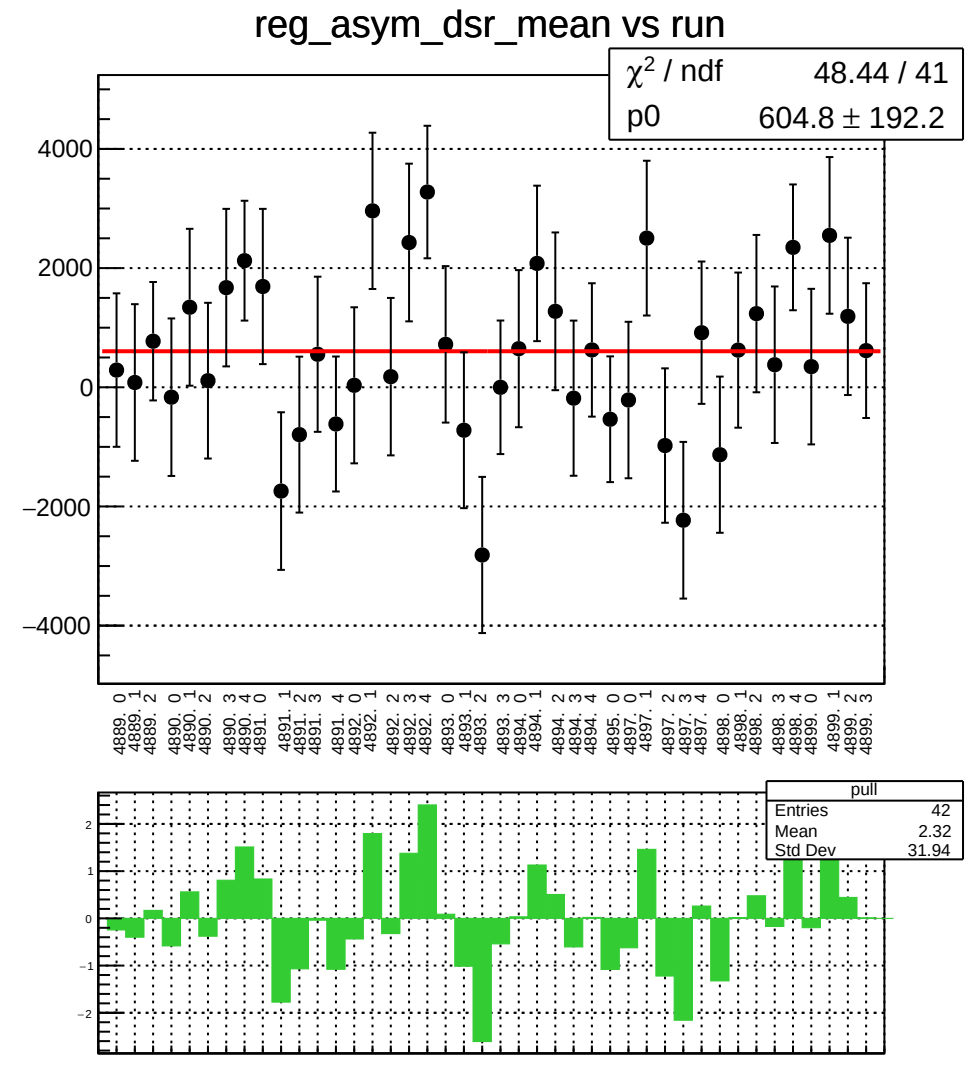

asym_dsl_correction_mean vs run
χ² / ndf 47.73 / 41
p0 −1398 ± 734.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −179.1
Std Dev 202.6
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.01792
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

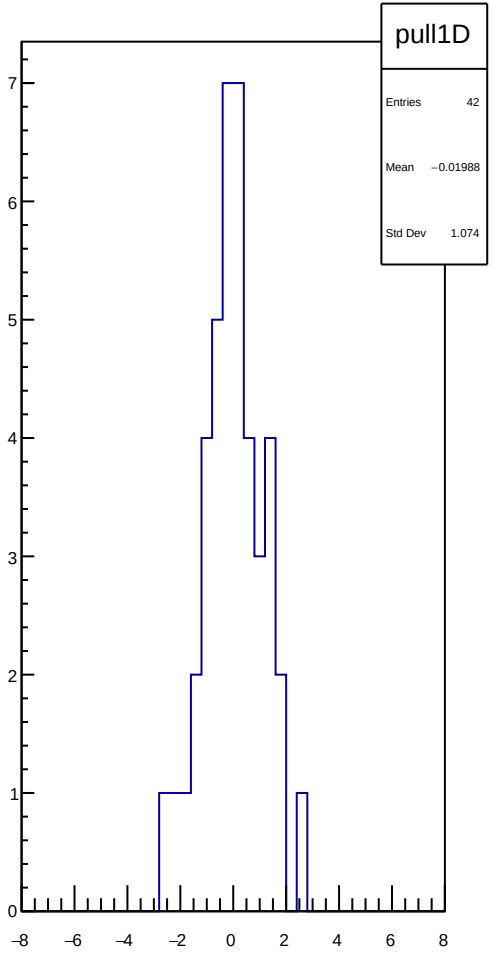

asym_dsl_correction_rms vs run
χ² / ndf 3153 / 41
p0 474.6 ± 0.5196
540
520
500
480
460
440
420
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

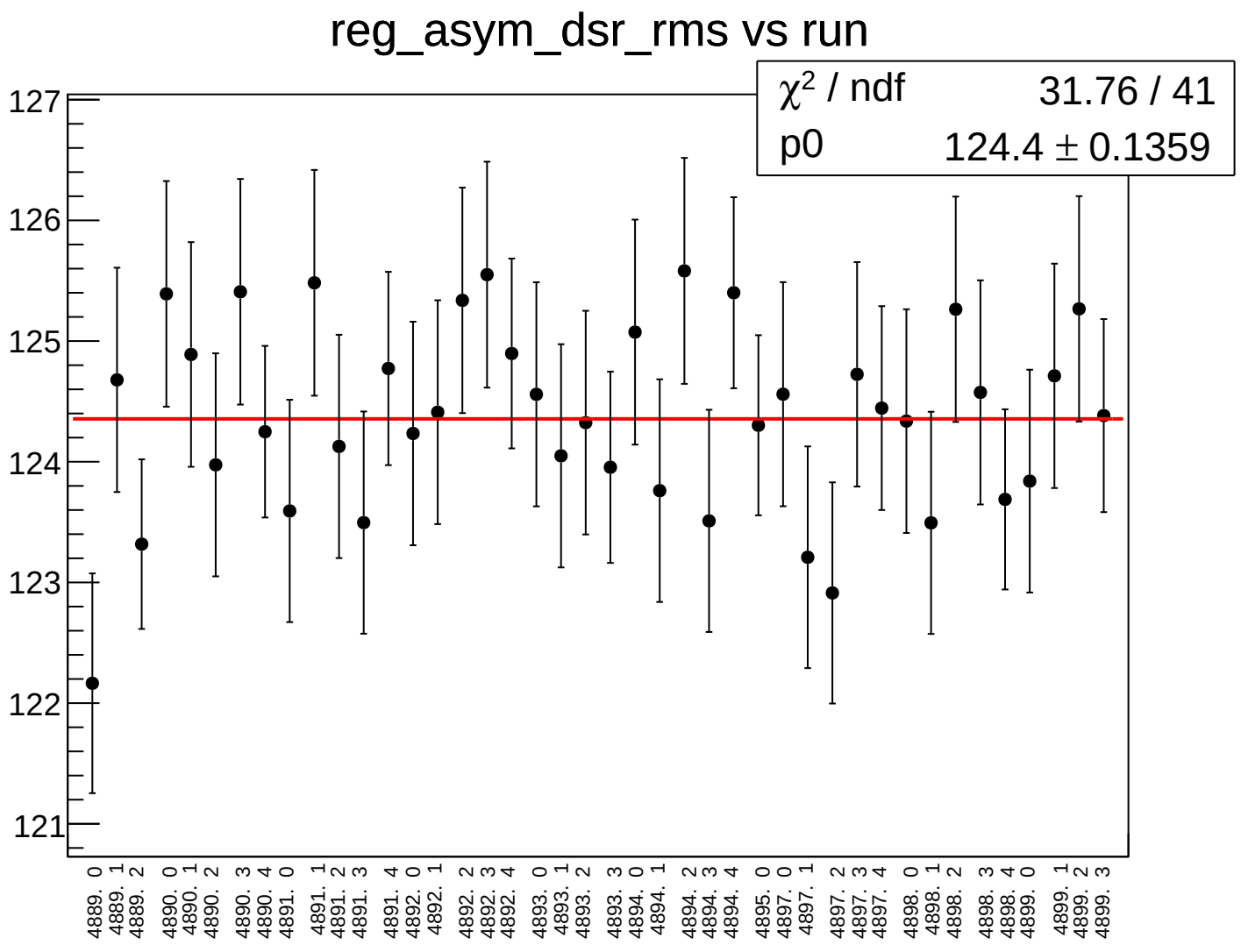

asym_dsl_mean vs run
χ² / ndf 50.97 / 41
p0 1988 ± 760.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −211.7
Std Dev 236.3
3
2
1
0
−1
−2

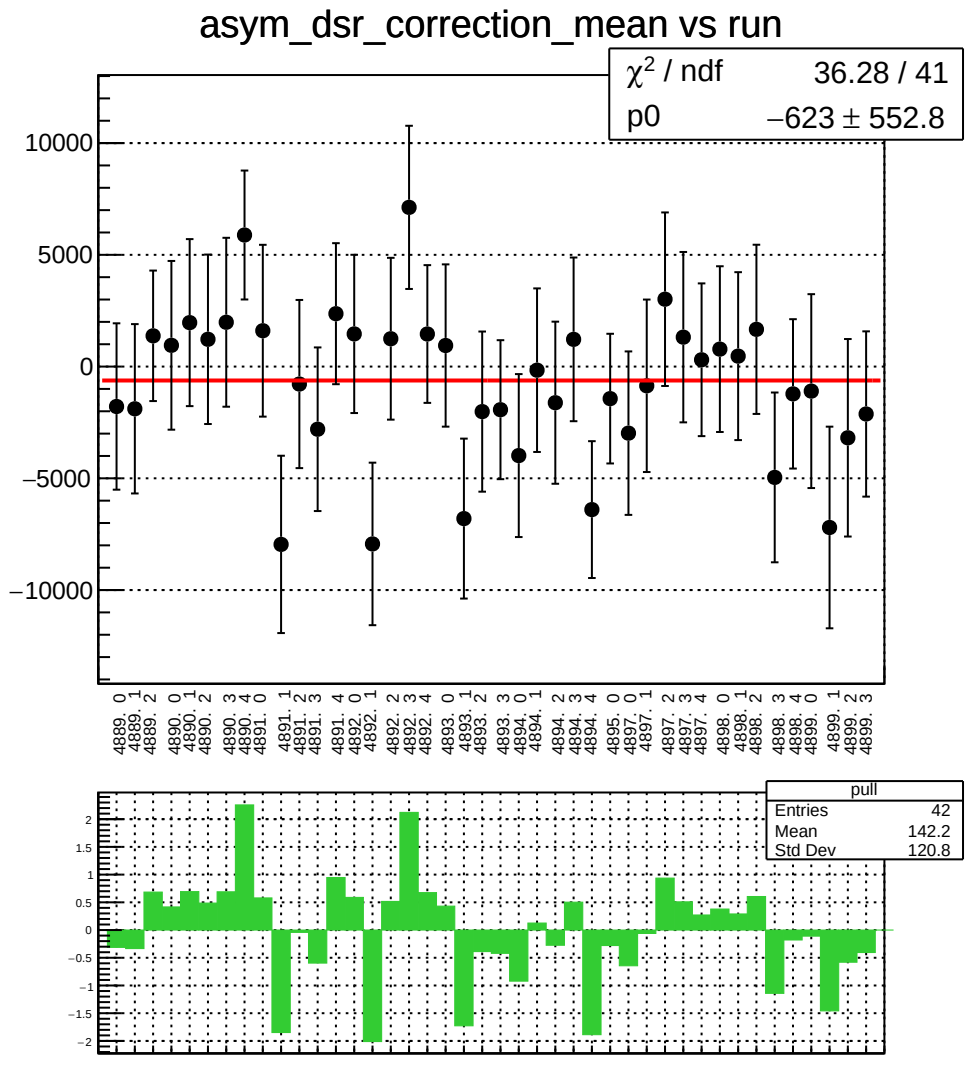

pull1D
Entries 42
Mean 0.01527
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

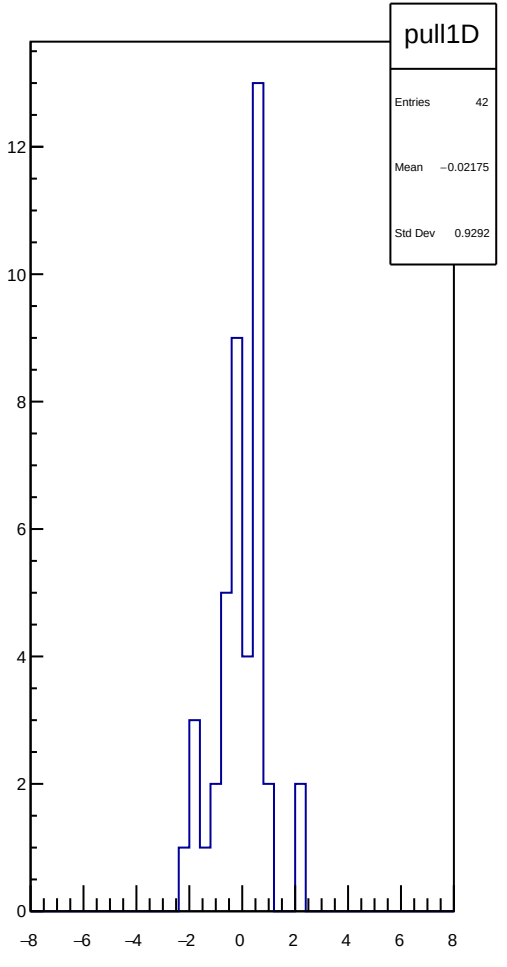

asym_dsl_rms vs run
χ² / ndf 2738 / 41
p0 491.6 ± 0.538
560
540
520
500
480
460
440
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

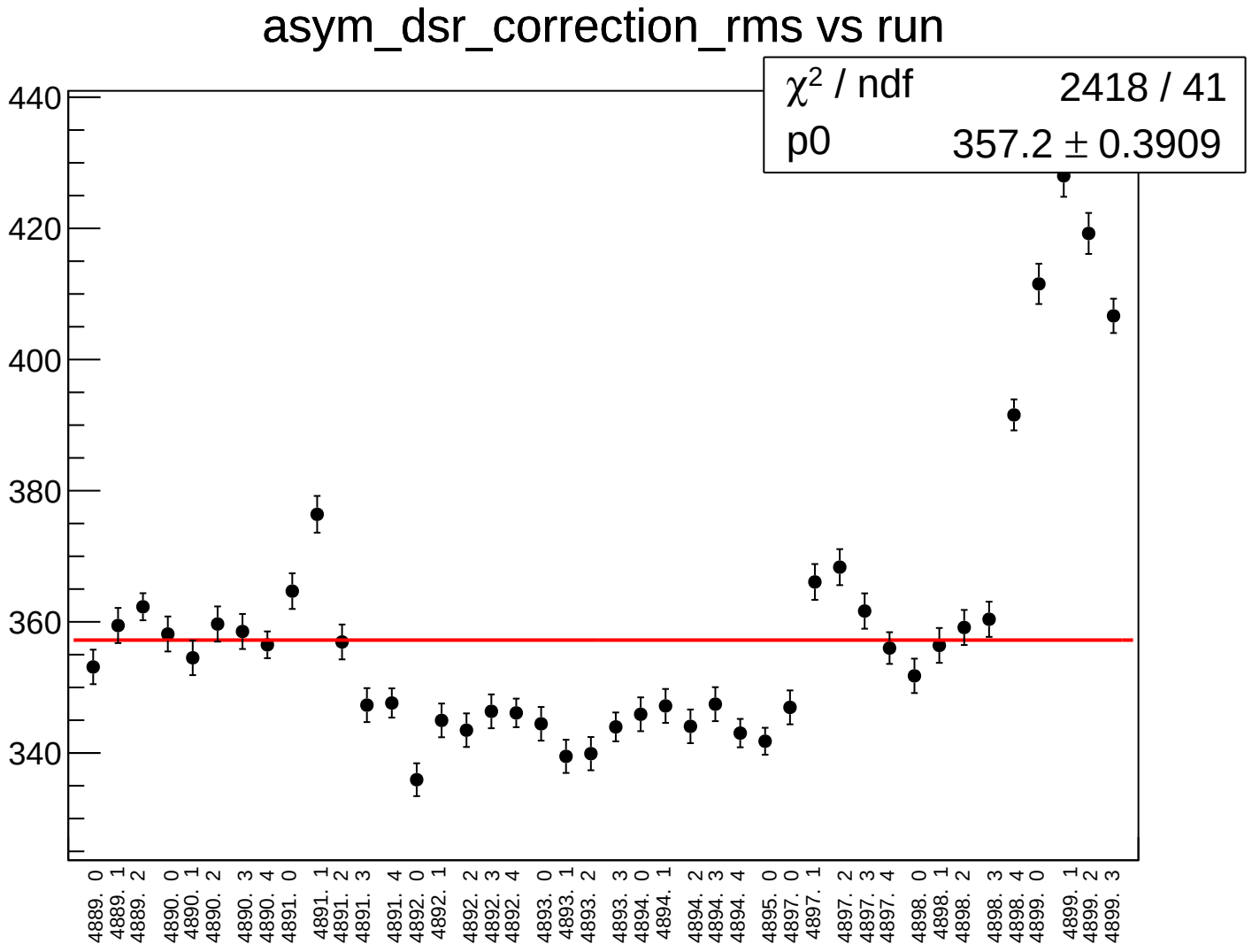

reg_asym_dsr_mean vs run
χ² / ndf 48.44 / 41
p0 604.8 ± 192.2
4000
2000
0
−2000
−4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 2.32
Std Dev 31.94
2
1
0
−1
−2

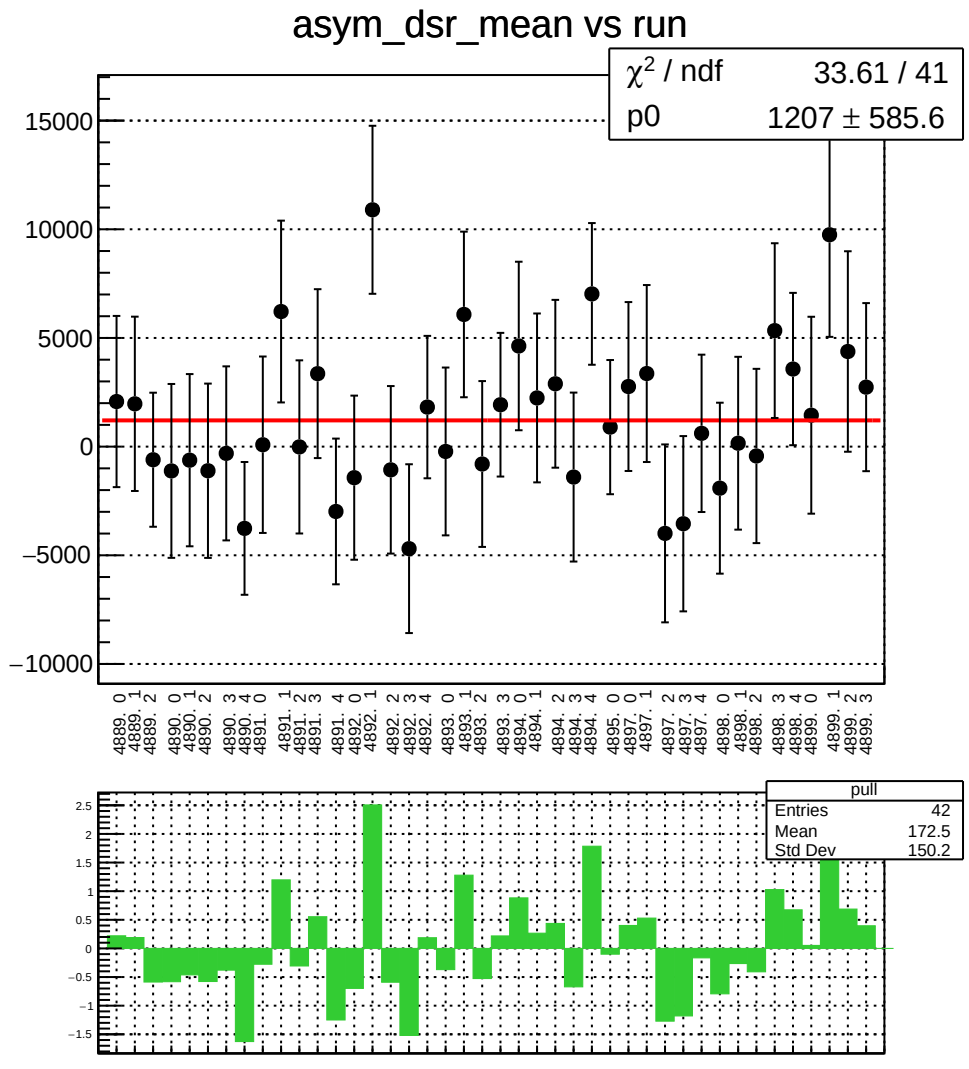

pull1D
Entries 42
Mean −0.01988
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

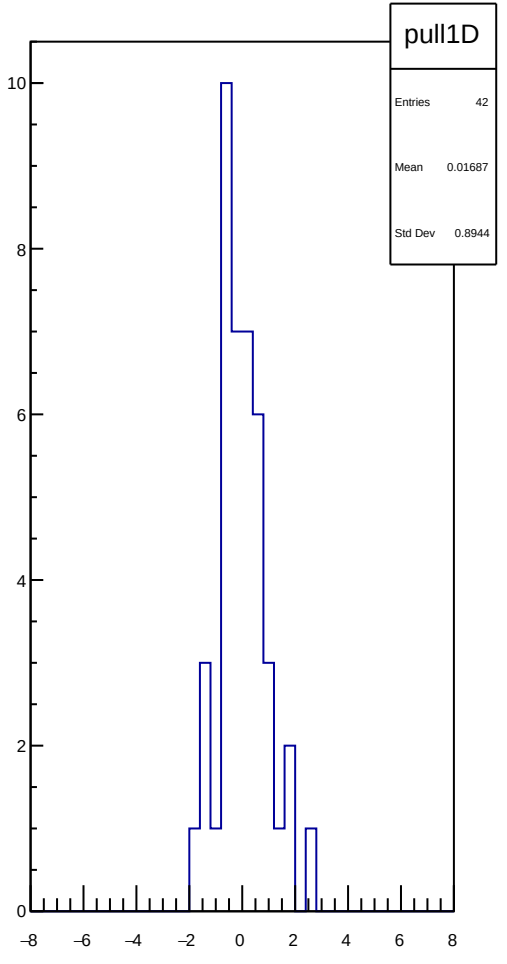

reg_asym_dsr_rms vs run
χ² / ndf 31.76 / 41
p0 124.4 ± 0.1359
127
126
125
124
123
122
121
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

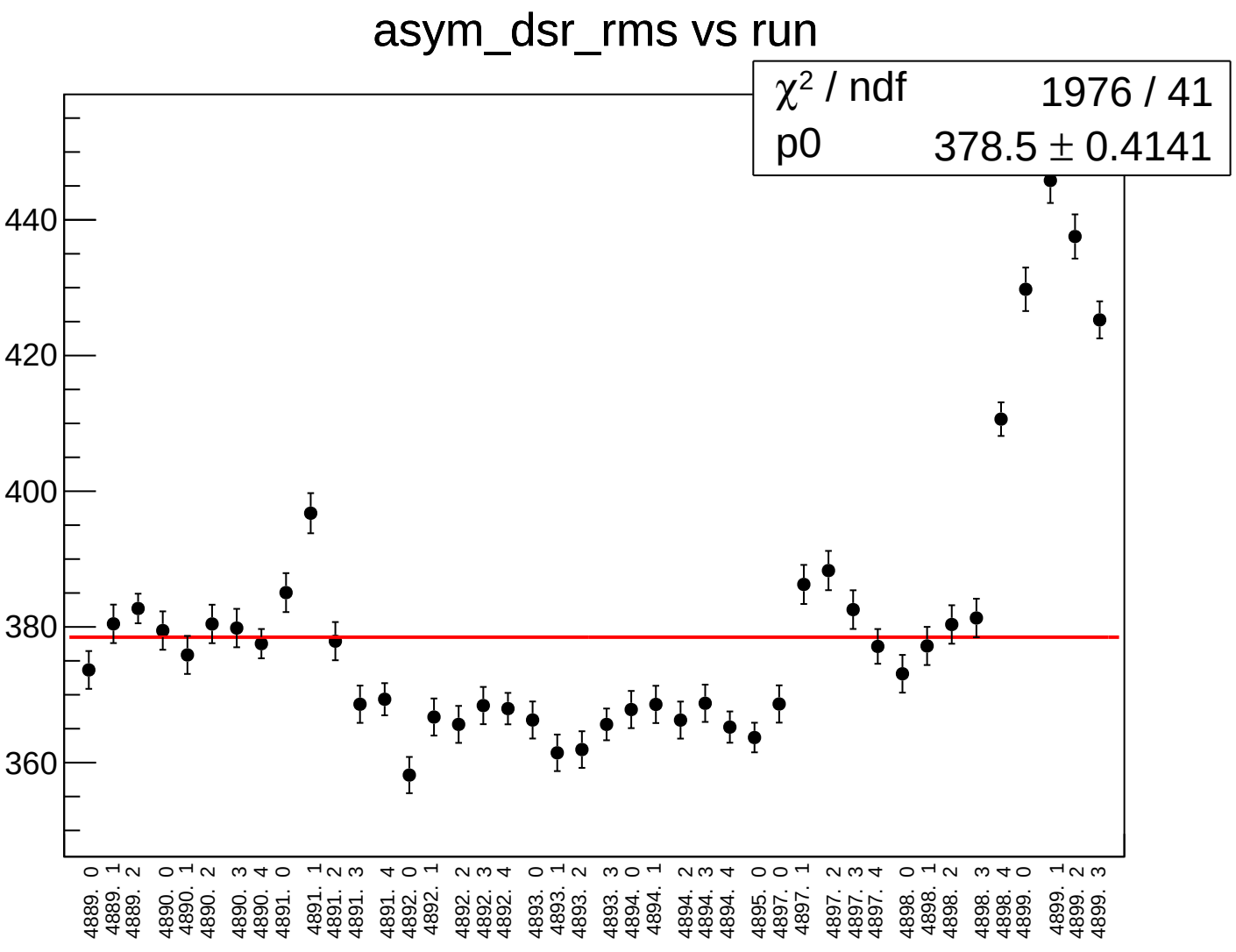

asym_dsr_correction_mean vs run
χ² / ndf 36.28 / 41
p0 −623 ± 552.8
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 142.2
Std Dev 120.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

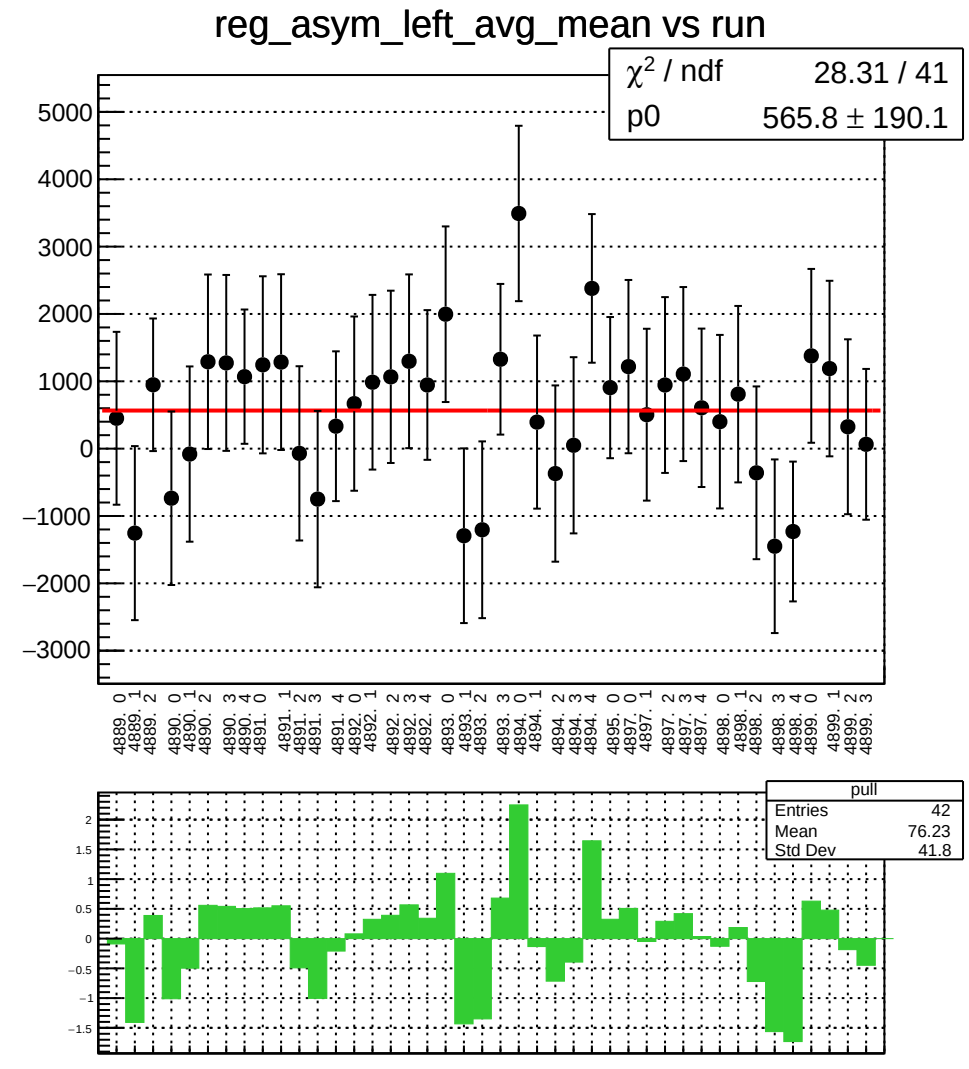

pull1D
Entries 42
Mean −0.02175
Std Dev 0.9292
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

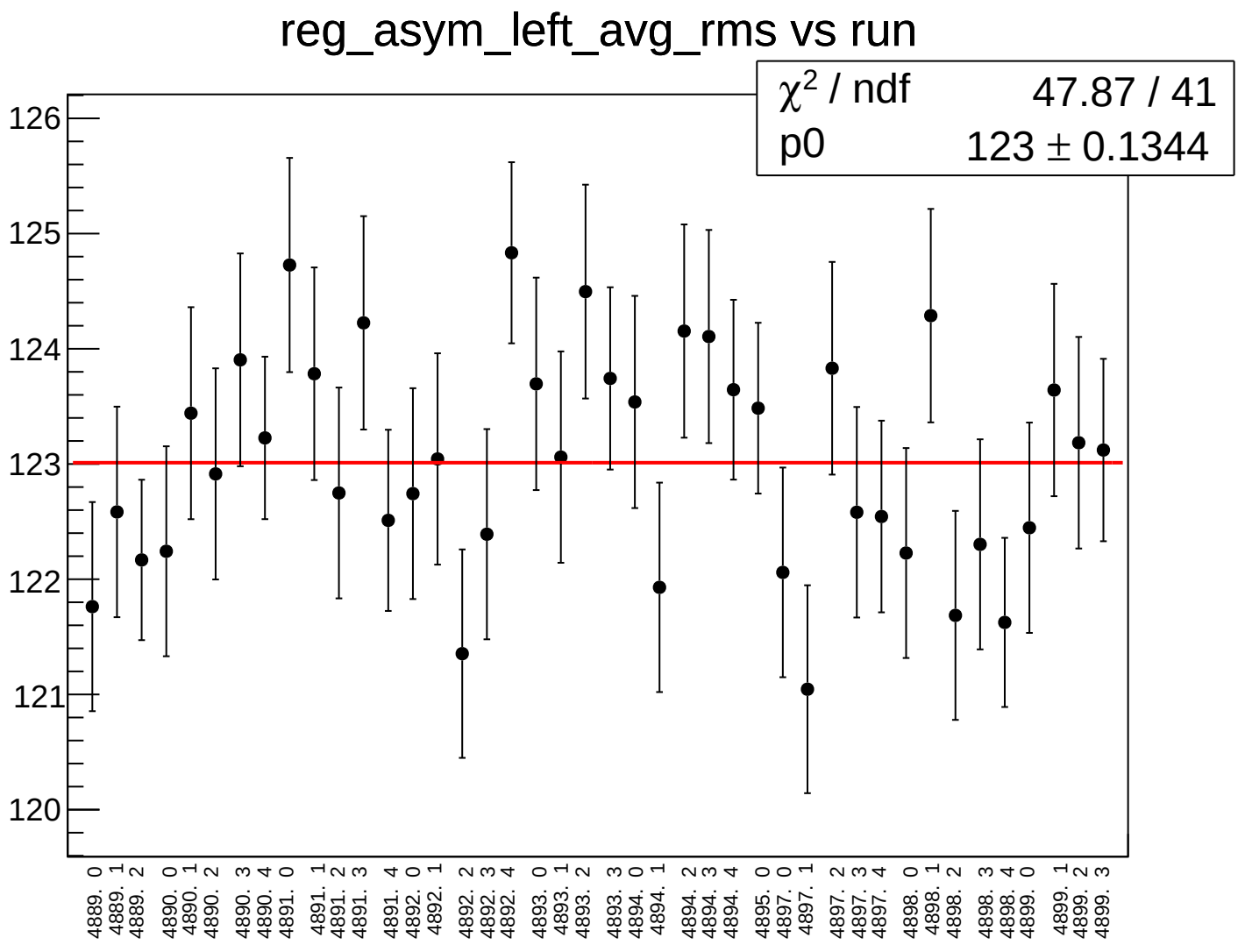

asym_dsr_correction_rms vs run
χ² / ndf 2418 / 41
p0 357.2 ± 0.3909
440
420
400
380
360
340
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

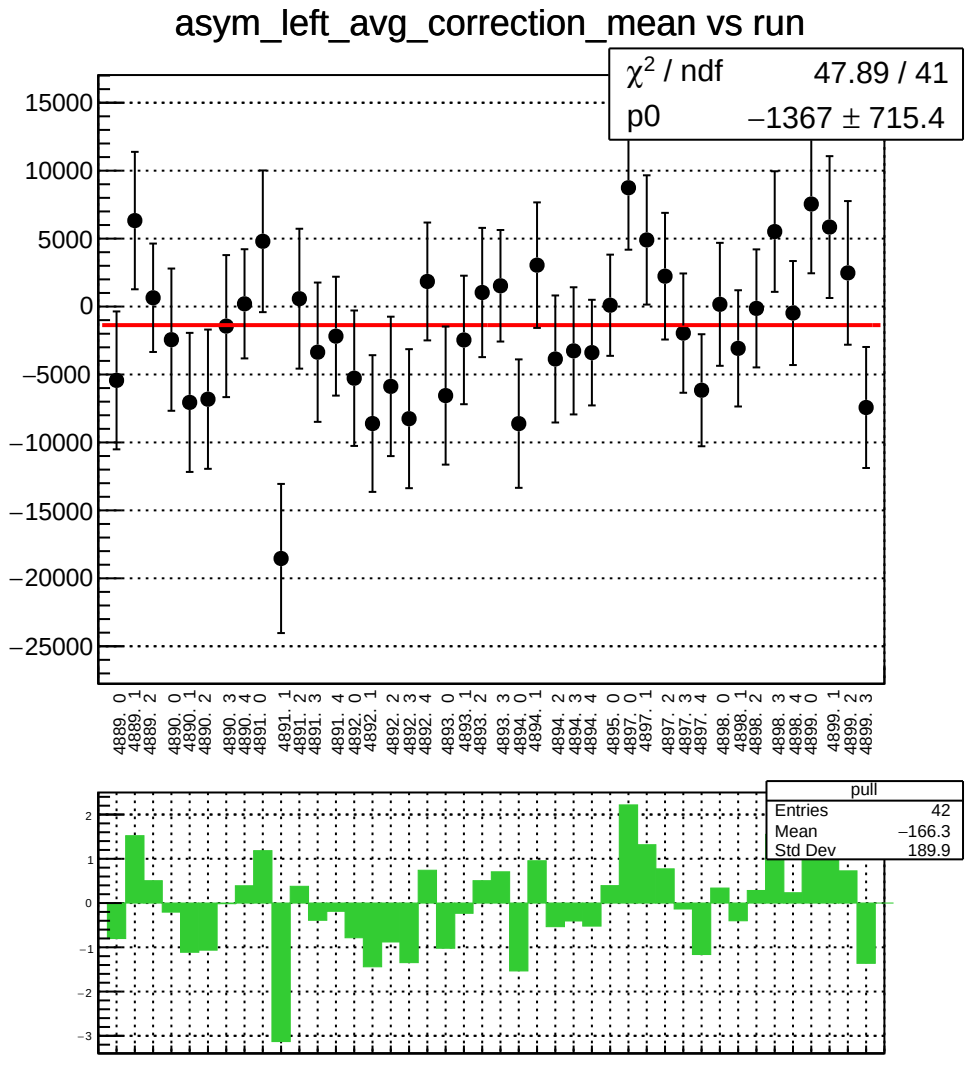

asym_dsr_mean vs run
χ^2 / ndf 33.61 / 41
p0 1207 ± 585.6
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 172.5
Std Dev 150.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

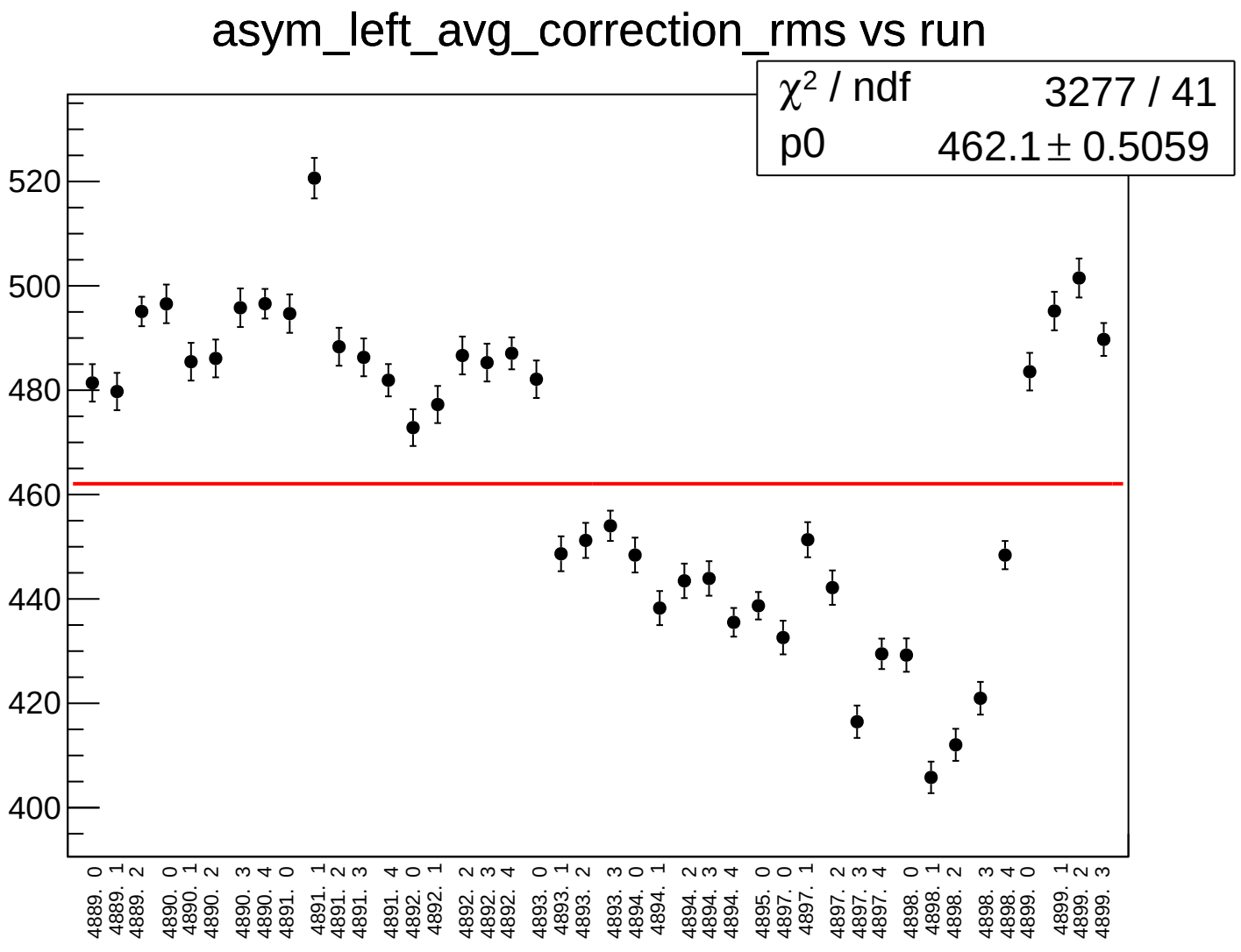

pull1D
Entries 42
Mean 0.01687
Std Dev 0.8944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

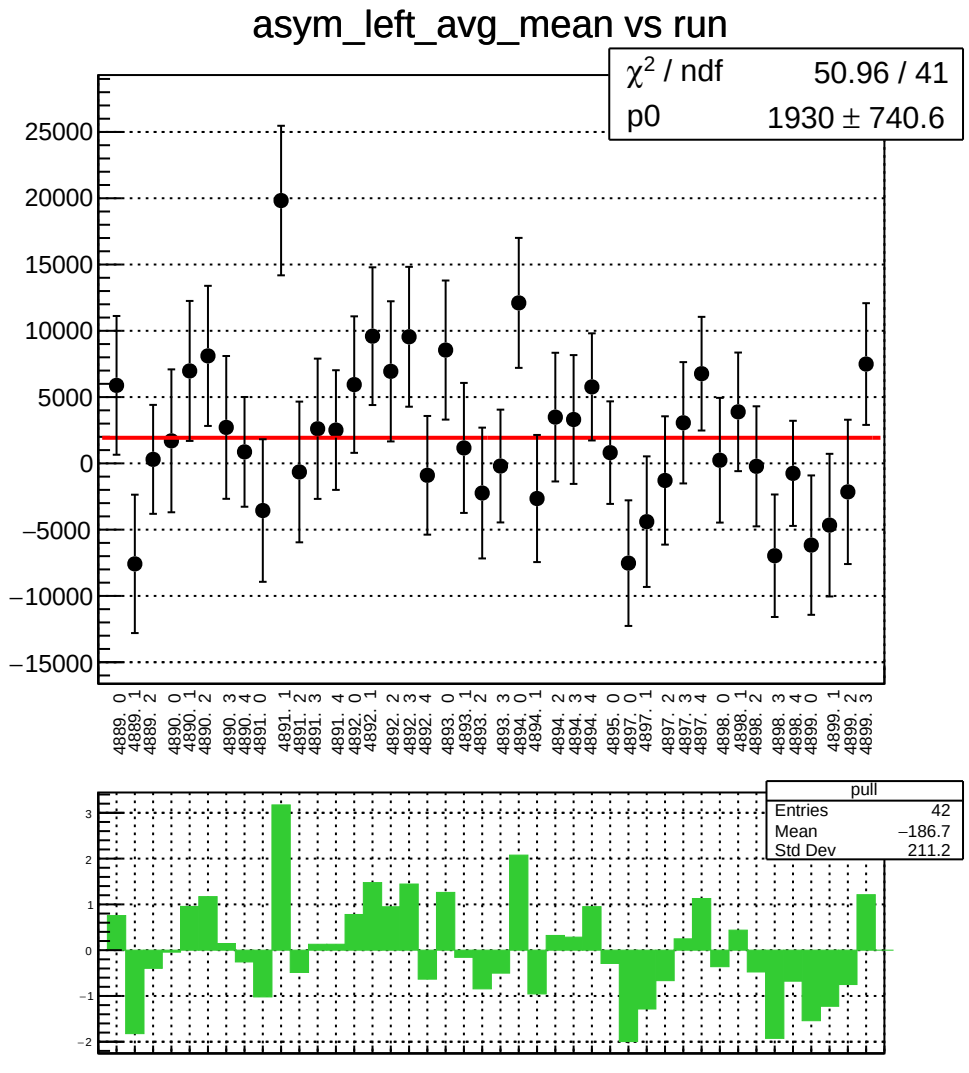

asym_dsr_rms vs run
χ² / ndf 1976 / 41
p0 378.5 ± 0.4141
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

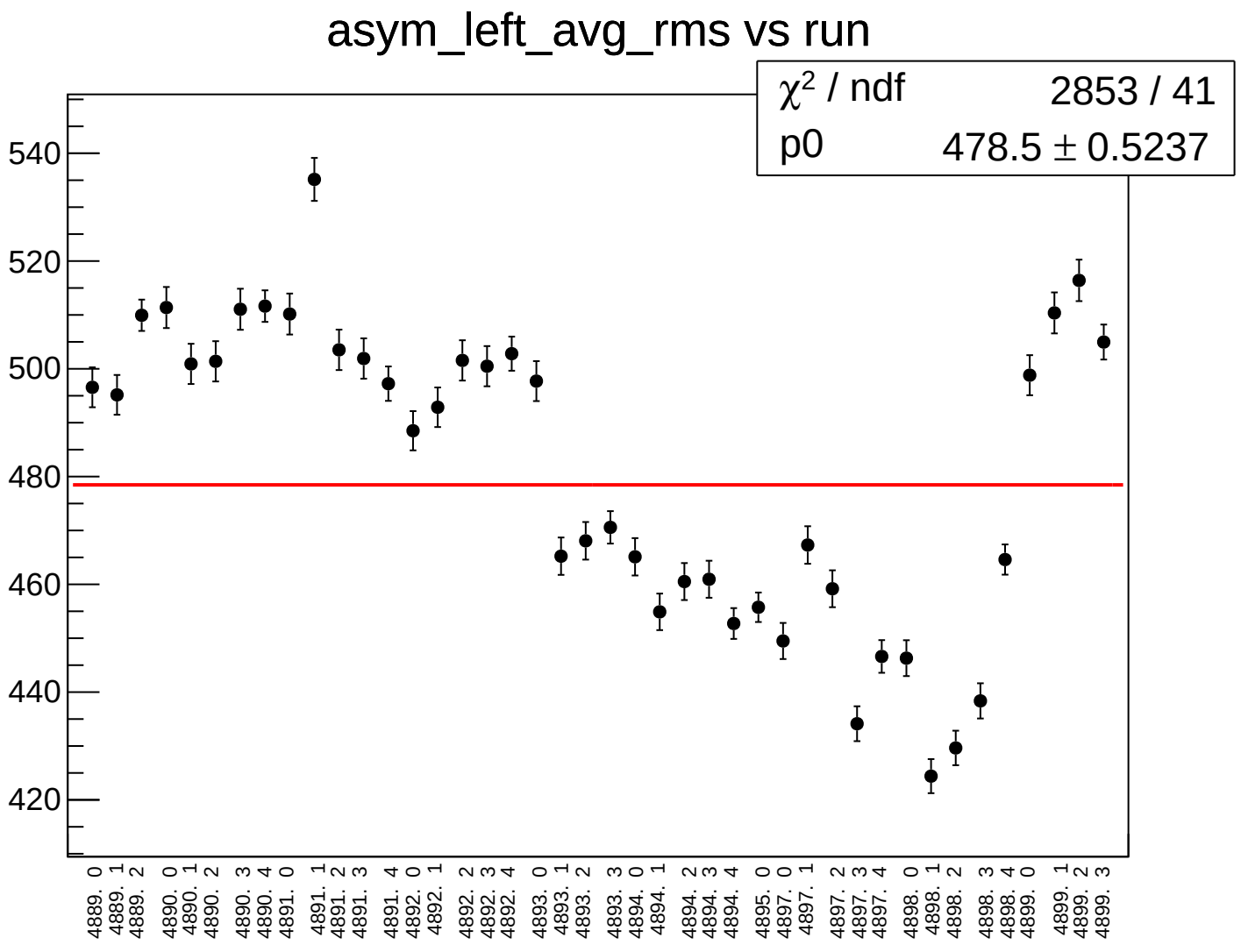

reg_asym_left_avg_mean vs run
χ² / ndf 28.31 / 41
p0 565.8 ± 190.1
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 76.23
Std Dev 41.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.006134
Std Dev 0.8209
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

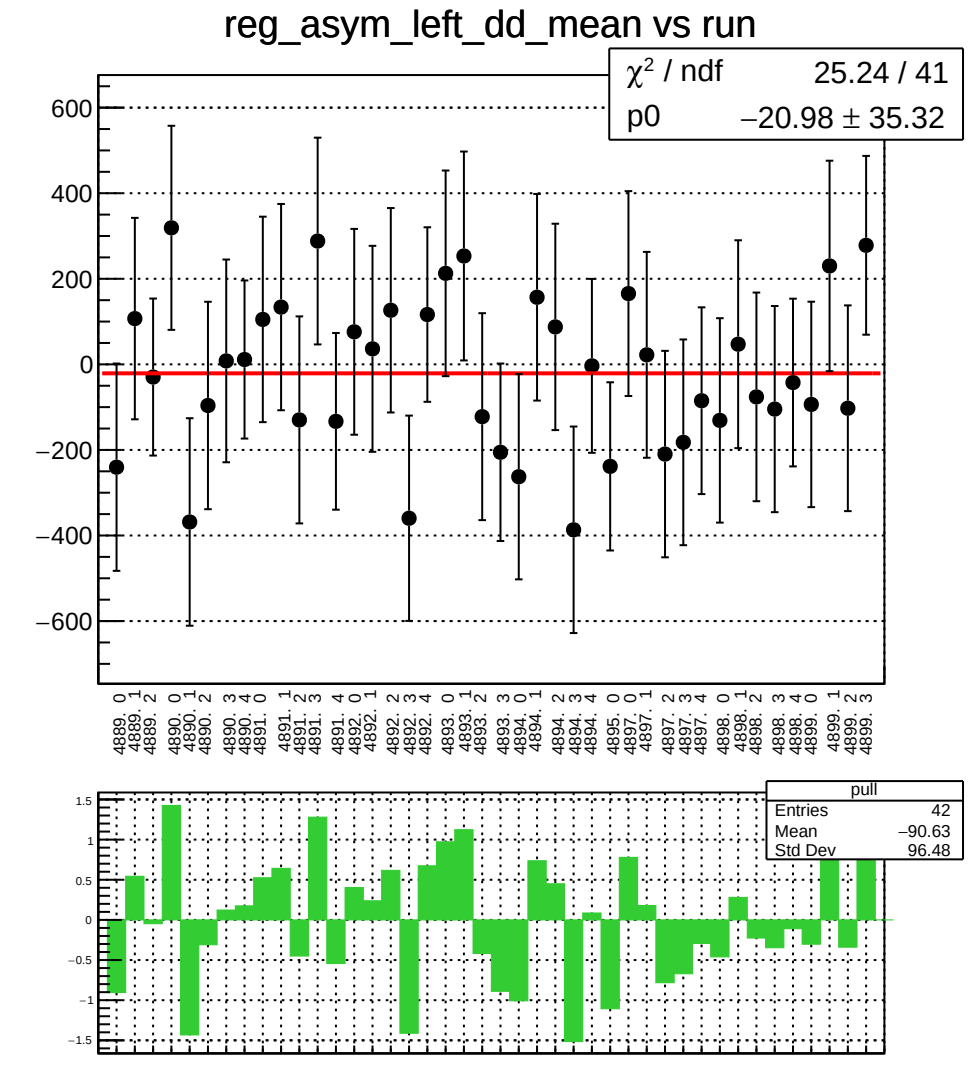

reg_asym_left_avg_rms vs run
χ^2 / ndf 47.87 / 41
p0 123 ± 0.1344
126
125
124
123
122
121
120
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

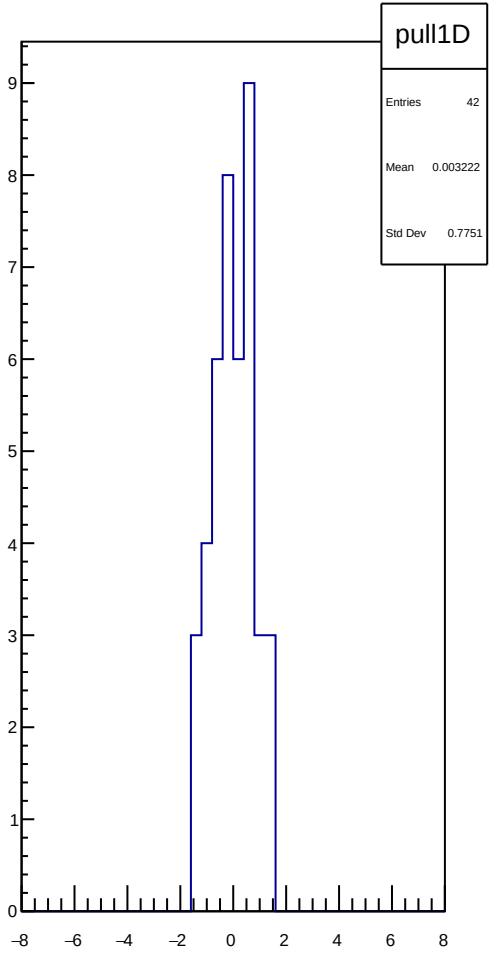

asym_left_avg_correction_mean vs run
χ² / ndf 47.89 / 41
p0 −1367 ± 715.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −166.3
Std Dev 189.9
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.01901
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

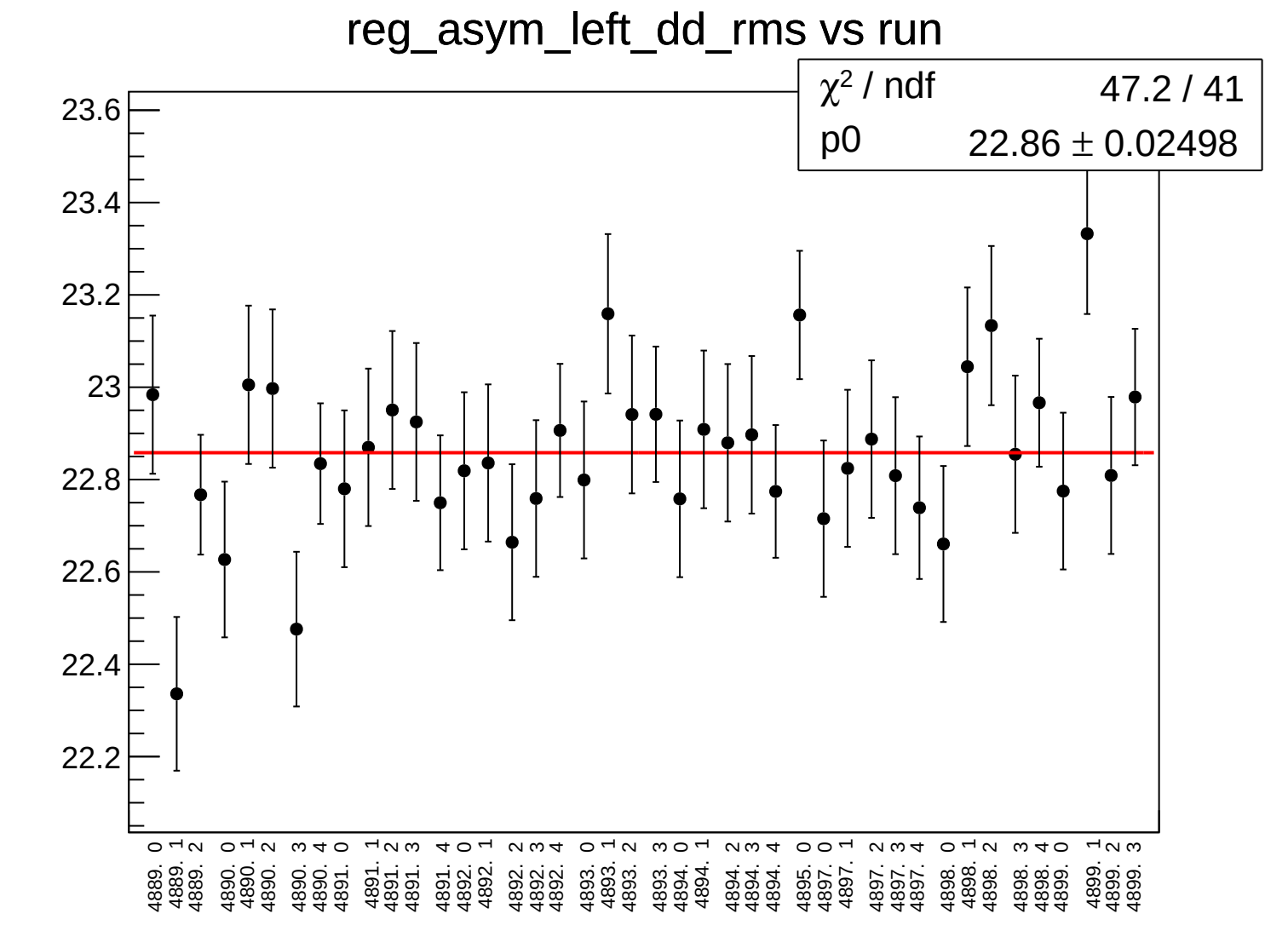

asym_left_avg_correction_rms vs run
χ² / ndf 3277 / 41
p0 462.1 ± 0.5059
520
500
480
460
440
420
400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

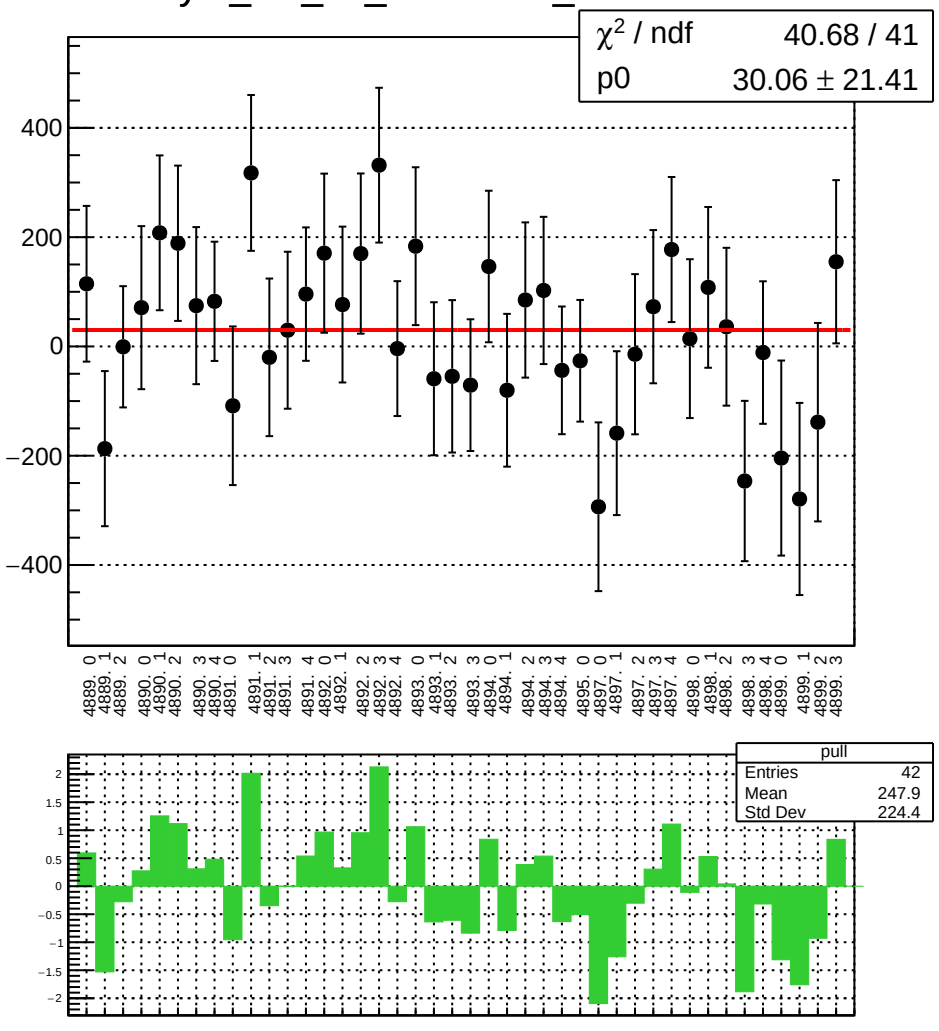

asym_left_avg_mean vs run
χ² / ndf 50.96 / 41
p0 1930 ± 740.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −186.7
Std Dev 211.2
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.01709
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

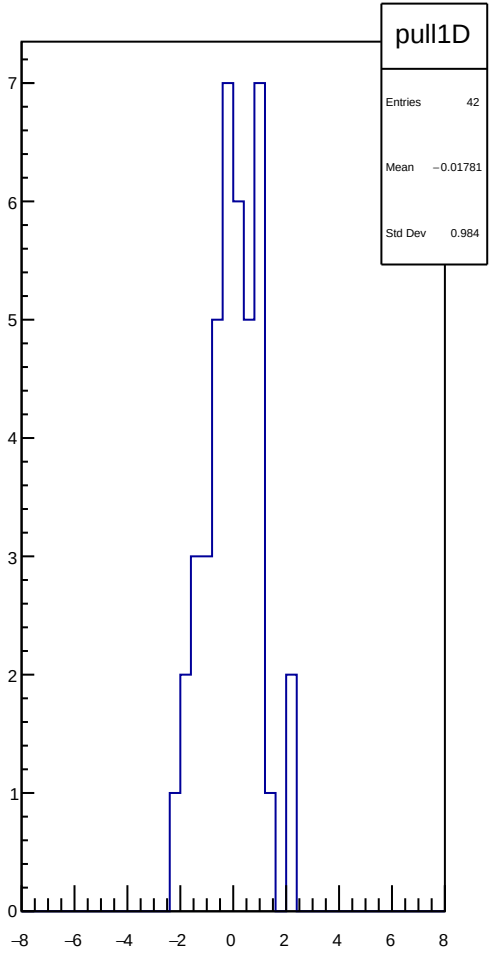

asym_left_avg_rms vs run
χ² / ndf 2853 / 41
p0 478.5 ± 0.5237
540
520
500
480
460
440
420
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

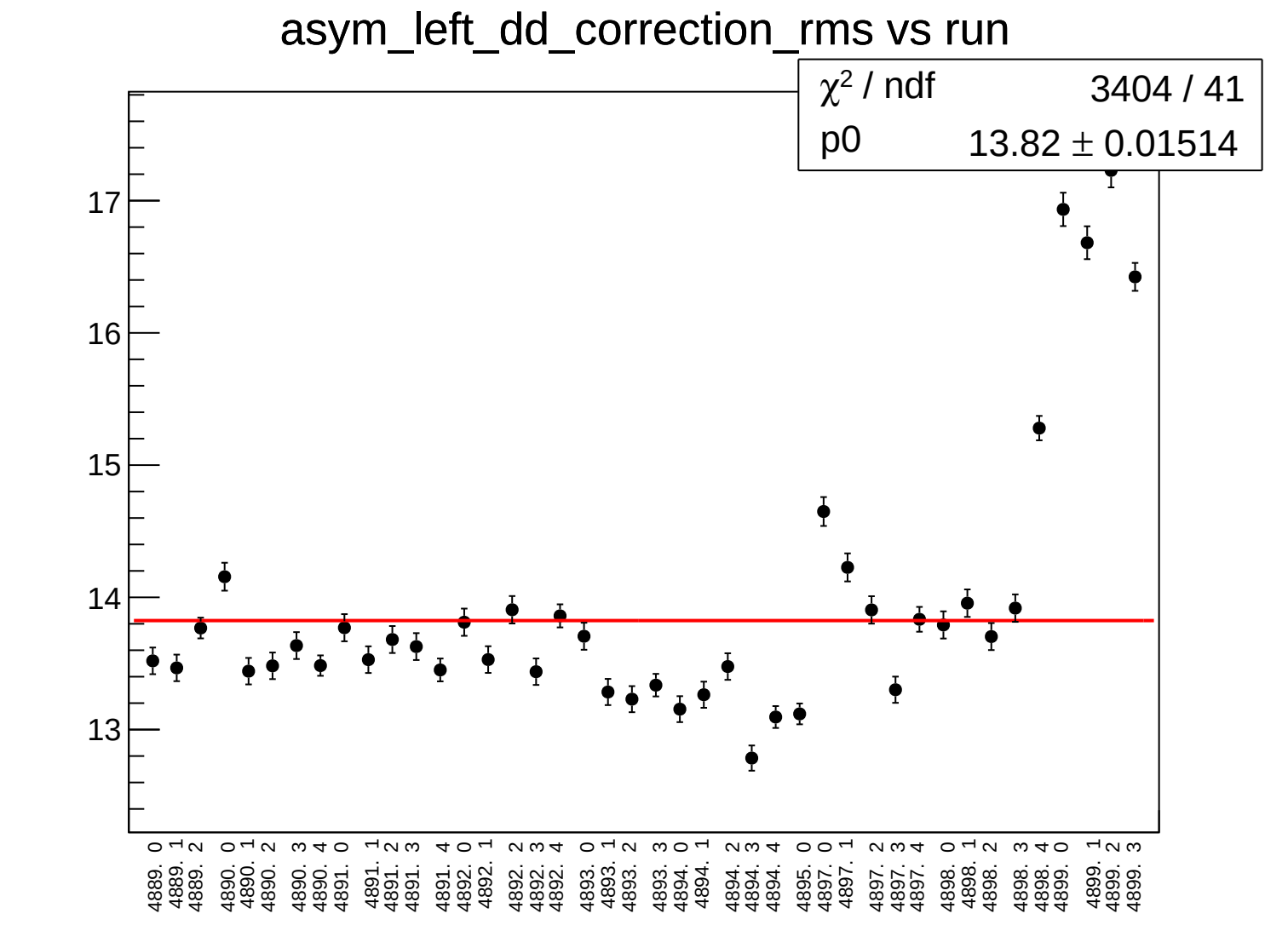

reg_asym_left_dd_mean vs run
χ² / ndf 25.24 / 41
p0 −20.98 ± 35.32
600
400
200
0
−200
−400
−600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −90.63
Std Dev 96.48
1.5
1
0.5
0
−0.5
−1
−1.5

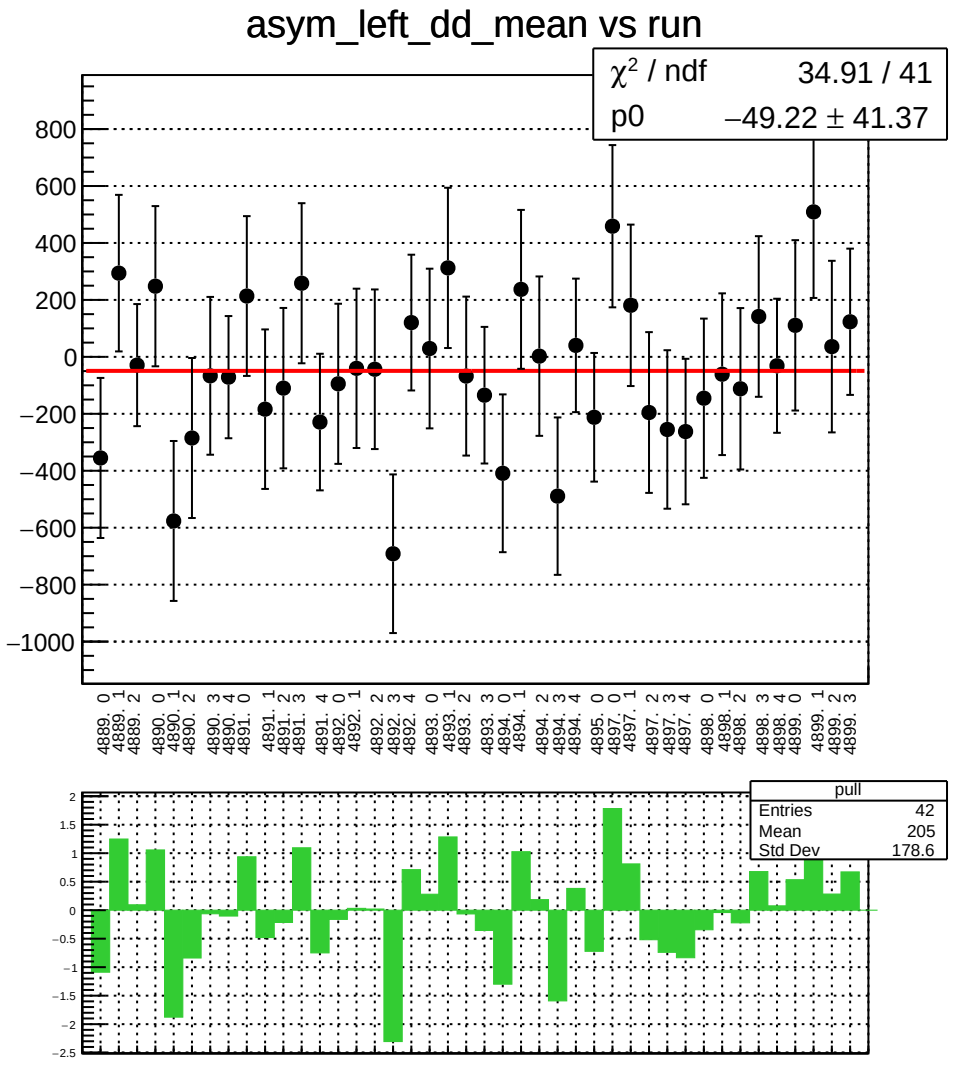

pull1D
Entries 42
Mean 0.003222
Std Dev 0.7751
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

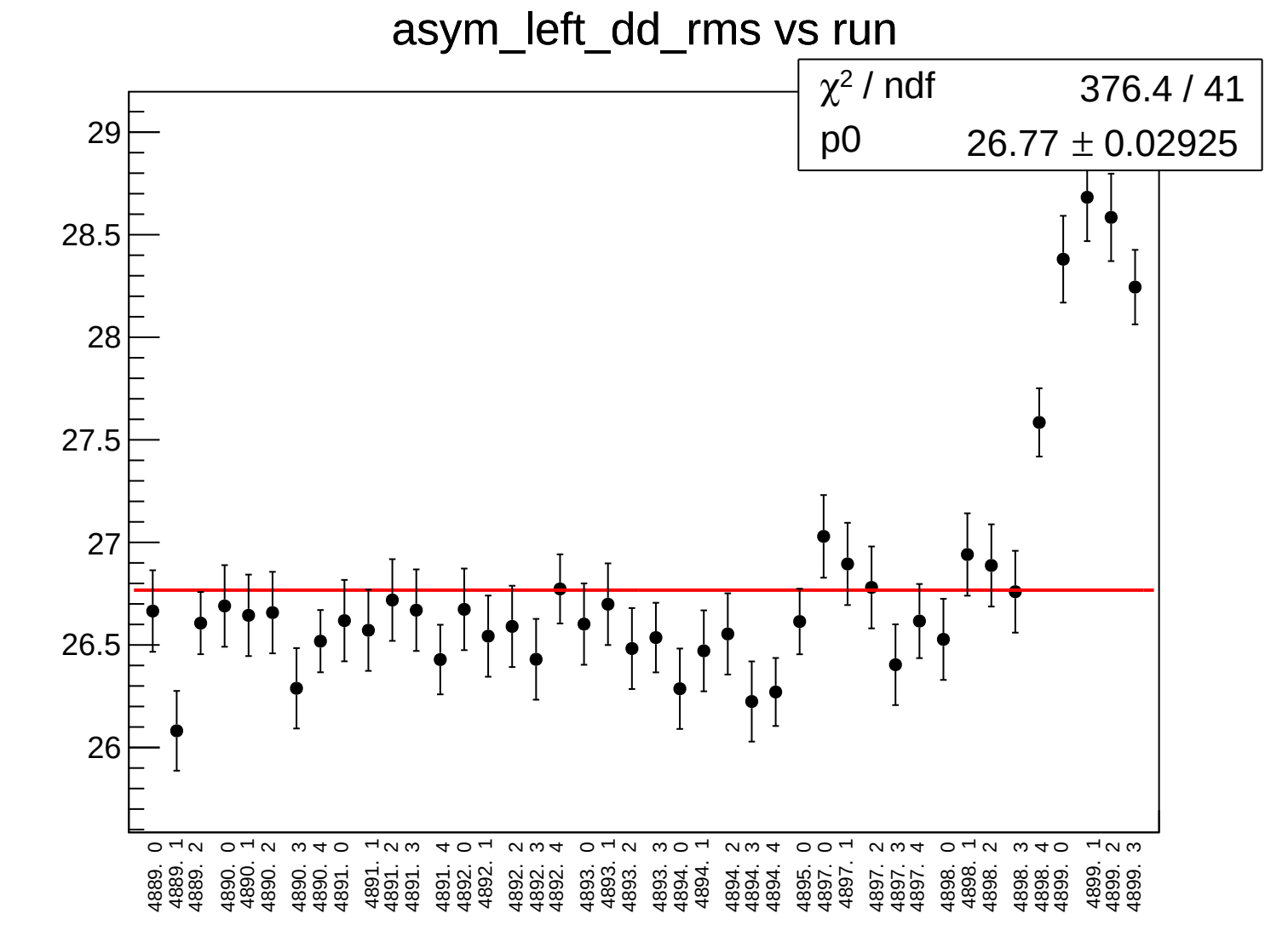

reg_asym_left_dd_rms vs run
χ² / ndf 47.2 / 41
p0 22.86 ± 0.02498
23.6
23.4
23.2
23
22.8
22.6
22.4
22.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

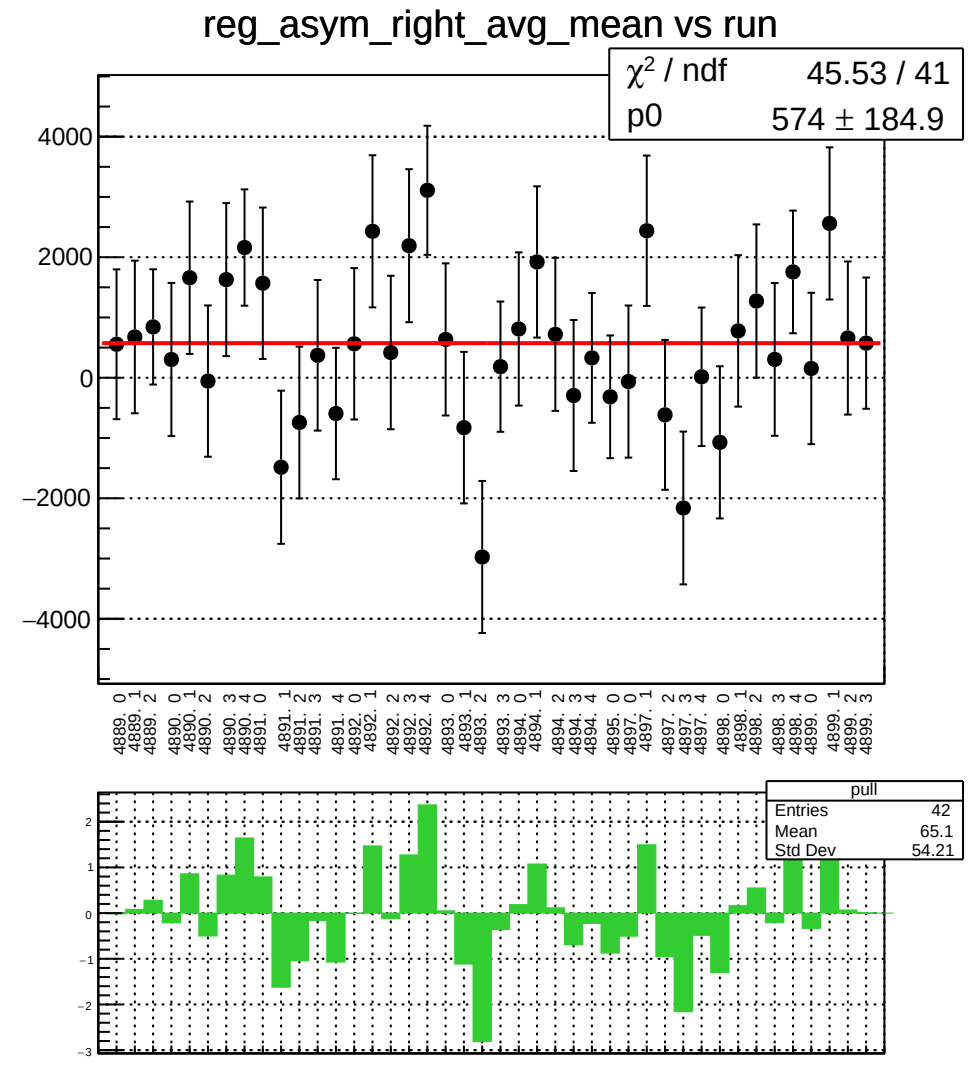

asym_left_dd_correction_mean vs run
χ² / ndf 40.68 / 41
p0 30.06 ± 21.41
400
200
0
−200
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 247.9
Std Dev 224.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

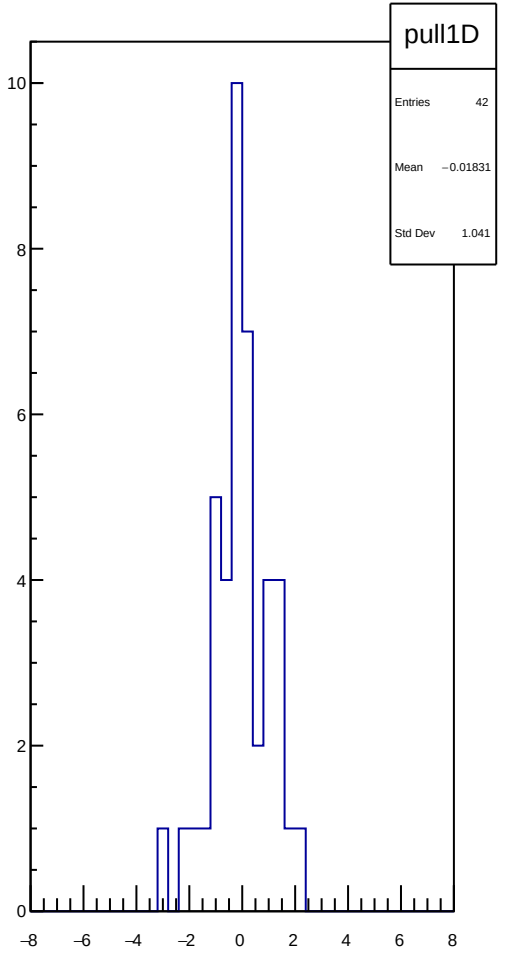

pull1D
Entries 42
Mean −0.01781
Std Dev 0.984
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

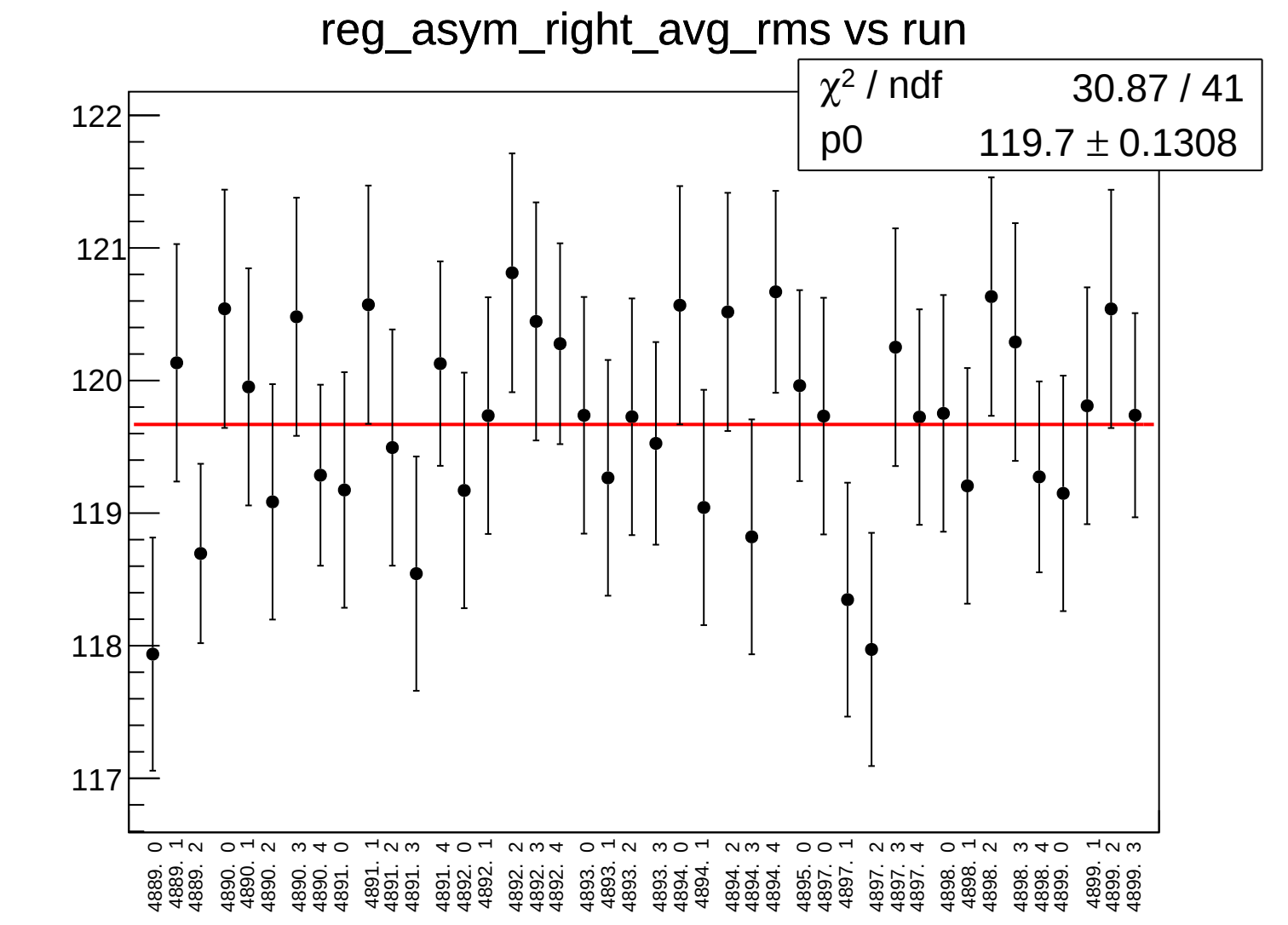

asym_left_dd_correction_rms vs run
χ² / ndf 3404 / 41
p0 13.82 ± 0.01514
17
16
15
14
13
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

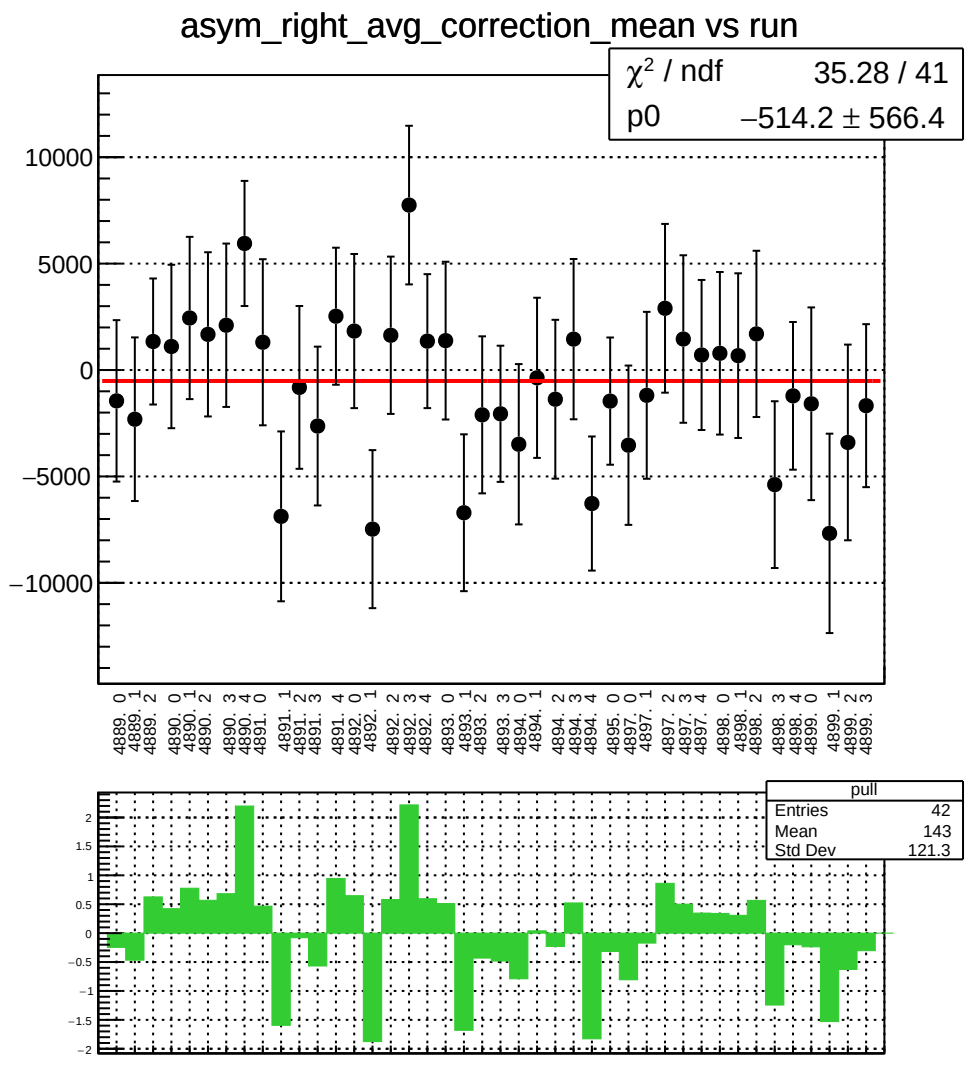

asym_left_dd_mean vs run
χ² / ndf 34.91 / 41
p0 −49.22 ± 41.37
800
600
400
200
0
−200
−400
−600
−800
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 205
Std Dev 178.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean 0.0101
Std Dev 0.9117
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

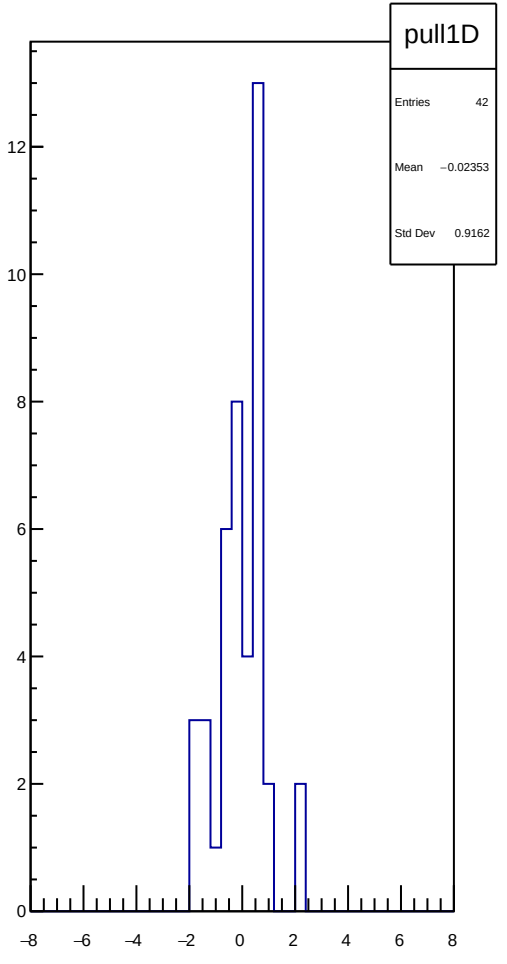

asym_left_dd_rms vs run
χ² / ndf 376.4 / 41
p0 26.77 ± 0.02925
29
28.5
28
27.5
27
26.5
26
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

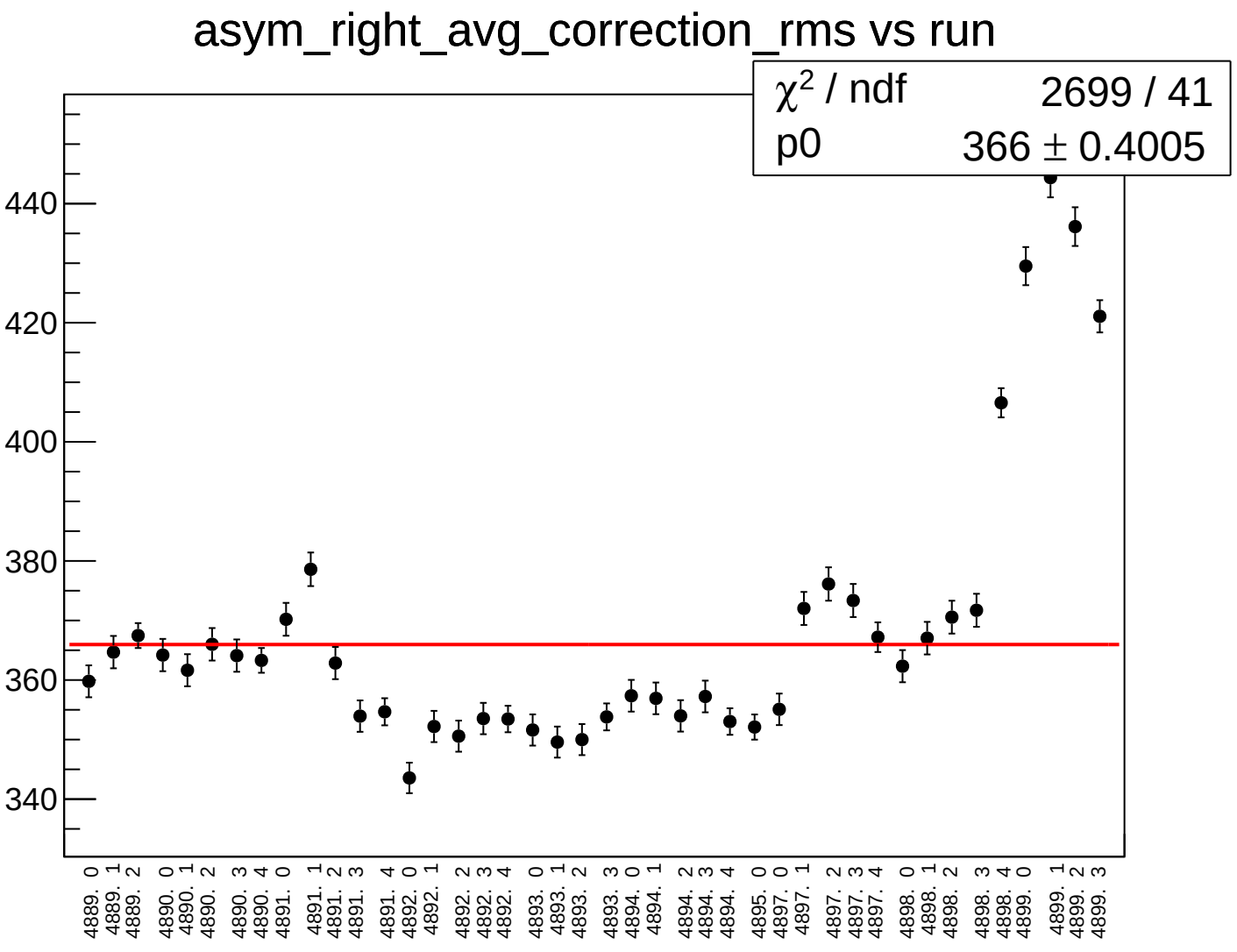

reg_asym_right_avg_mean vs run
χ² / ndf 45.53 / 41
p0 574 ± 184.9
4000
2000
0
−2000
−4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 65.1
Std Dev 54.21
2
1
0
−1
−2
−3

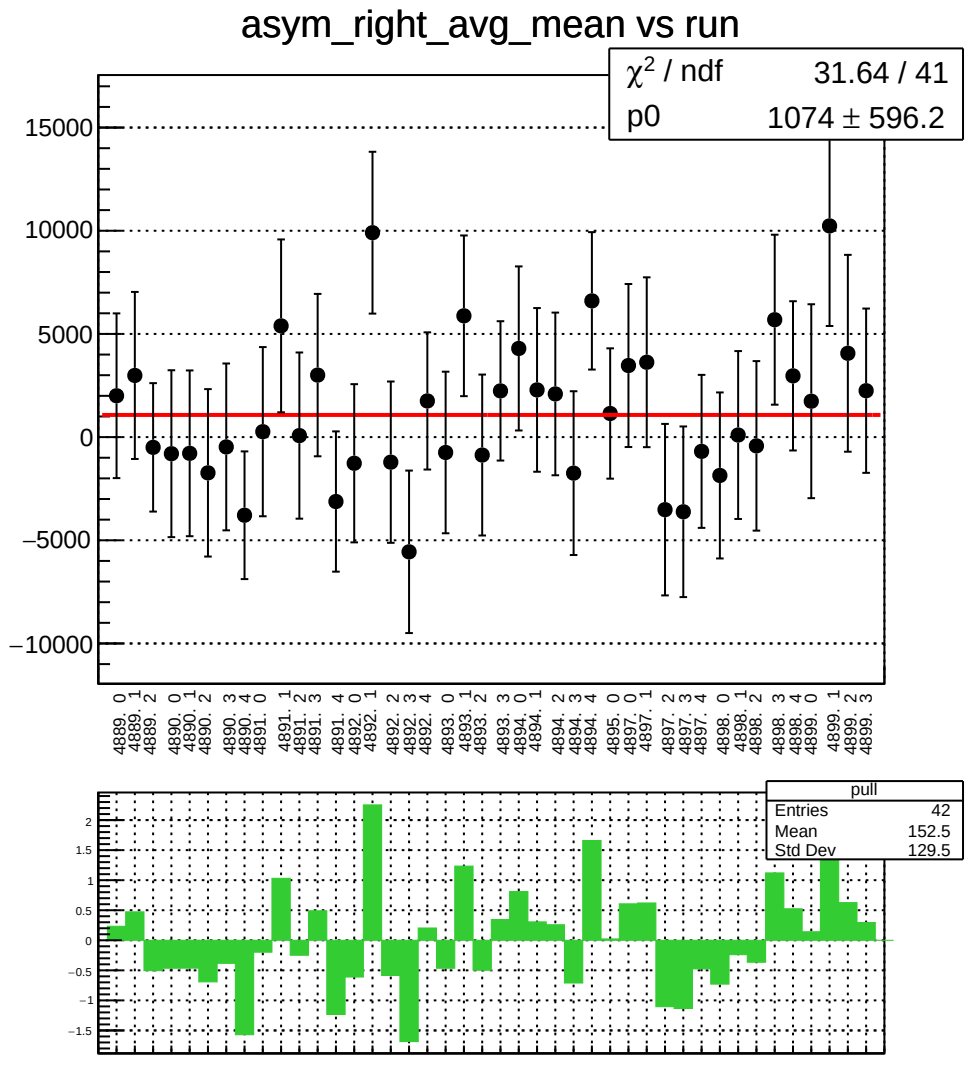

pull1D
Entries 42
Mean −0.01831
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

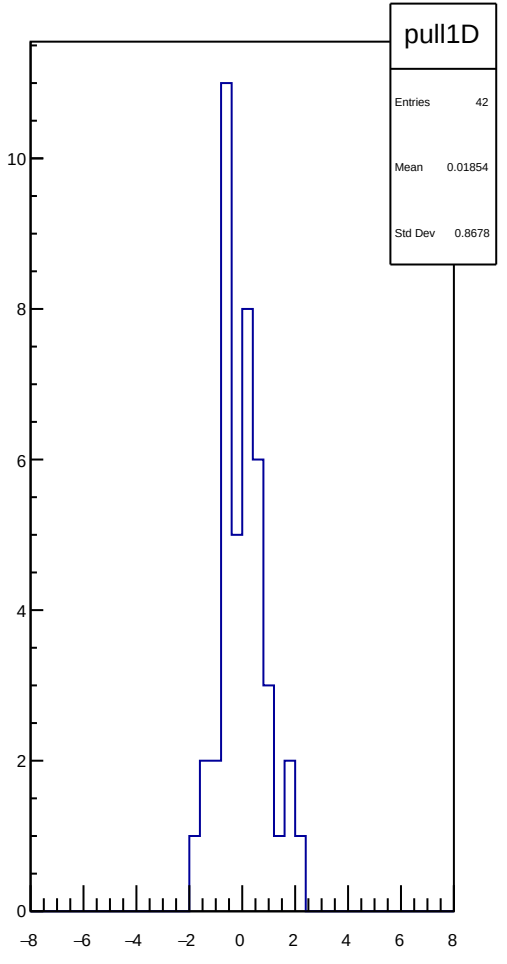

reg_asym_right_avg_rms vs run
χ^2 / ndf 30.87 / 41
p0 119.7 ± 0.1308
122
121
120
119
118
117
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

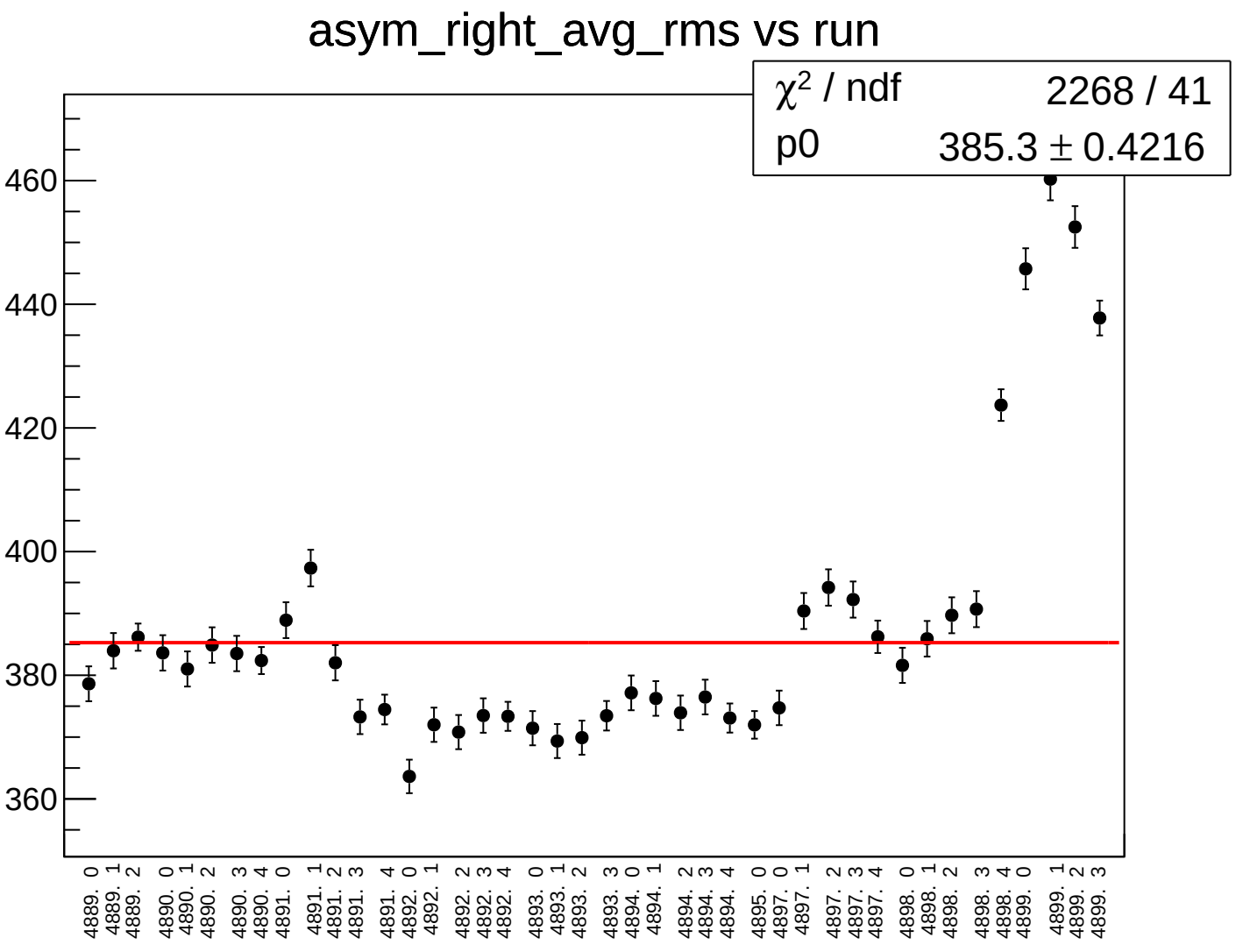

asym_right_avg_correction_mean vs run
χ² / ndf 35.28 / 41
p0 −514.2 ± 566.4
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 143
Std Dev 121.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

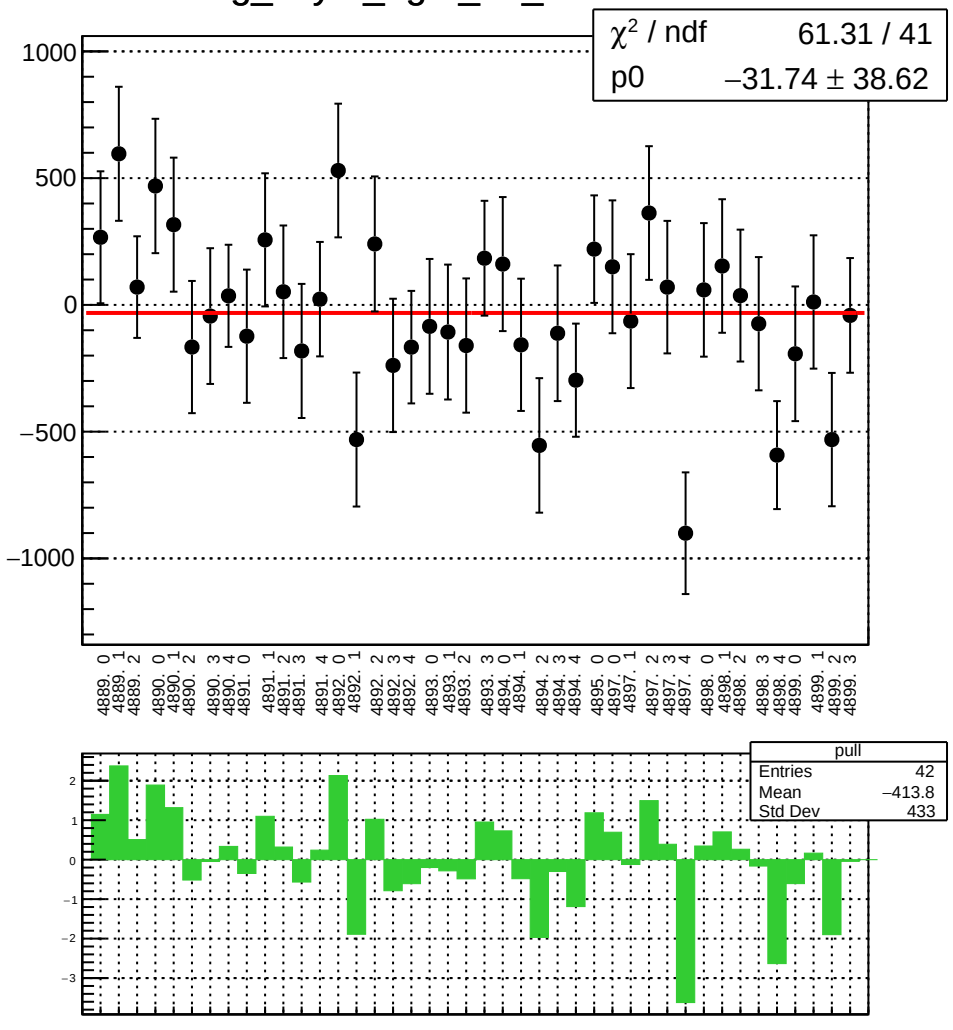

pull1D
Entries 42
Mean −0.02353
Std Dev 0.9162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

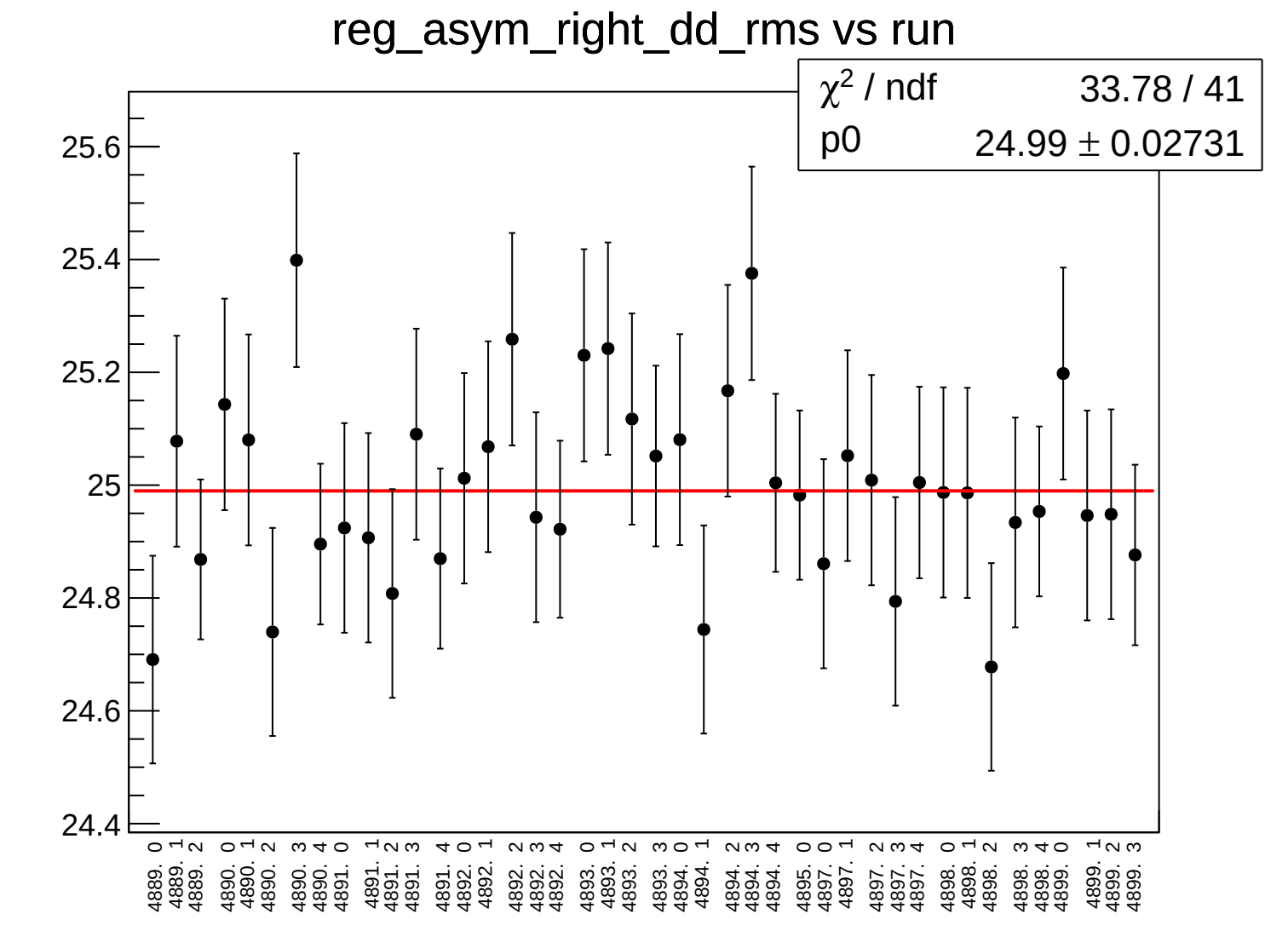

asym_right_avg_correction_rms vs run
χ² / ndf 2699 / 41
p0 366 ± 0.4005
440
420
400
380
360
340
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

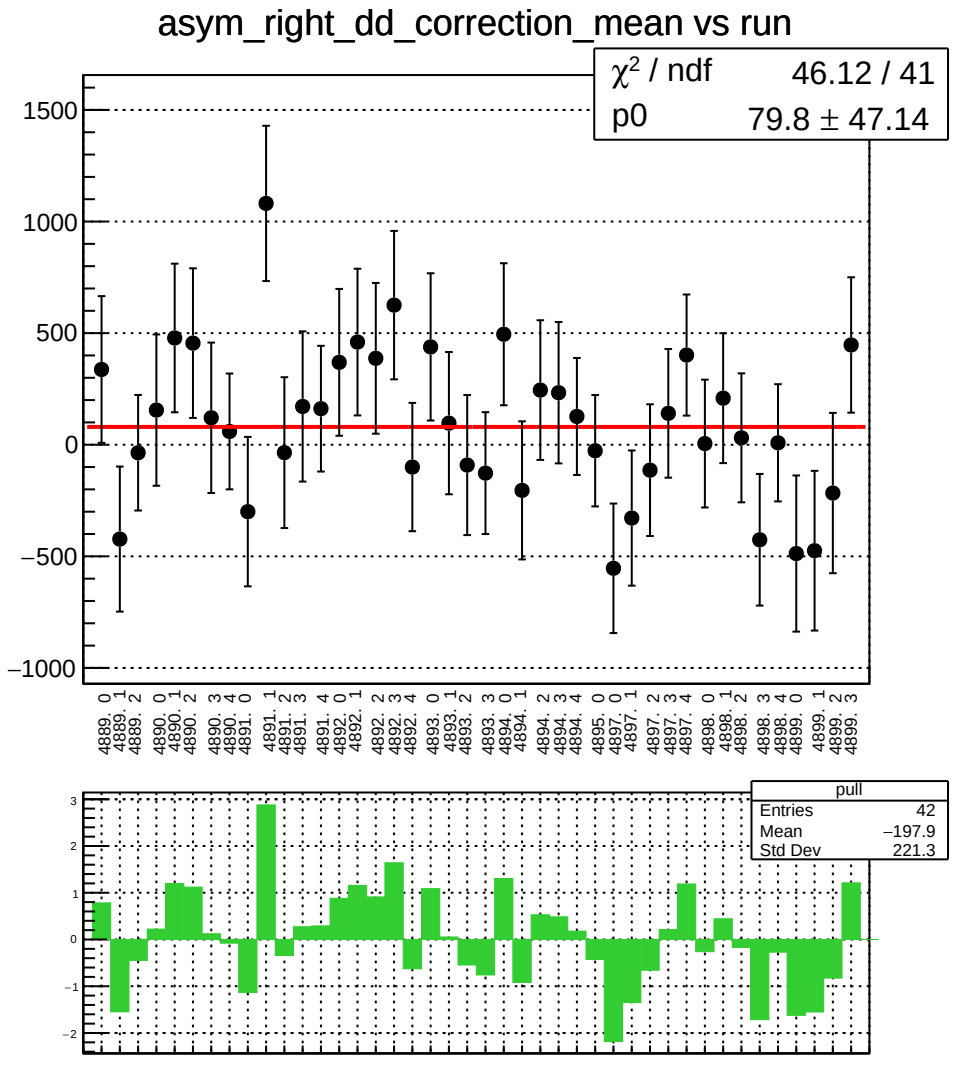

asym_right_avg_mean vs run
χ² / ndf 31.64 / 41
p0 1074 ± 596.2
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 152.5
Std Dev 129.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

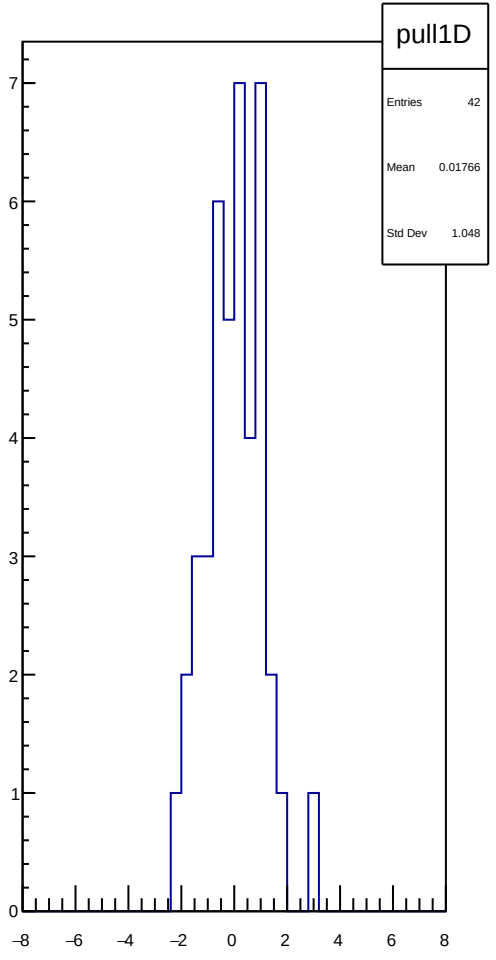

pull1D
Entries 42
Mean 0.01854
Std Dev 0.8678
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

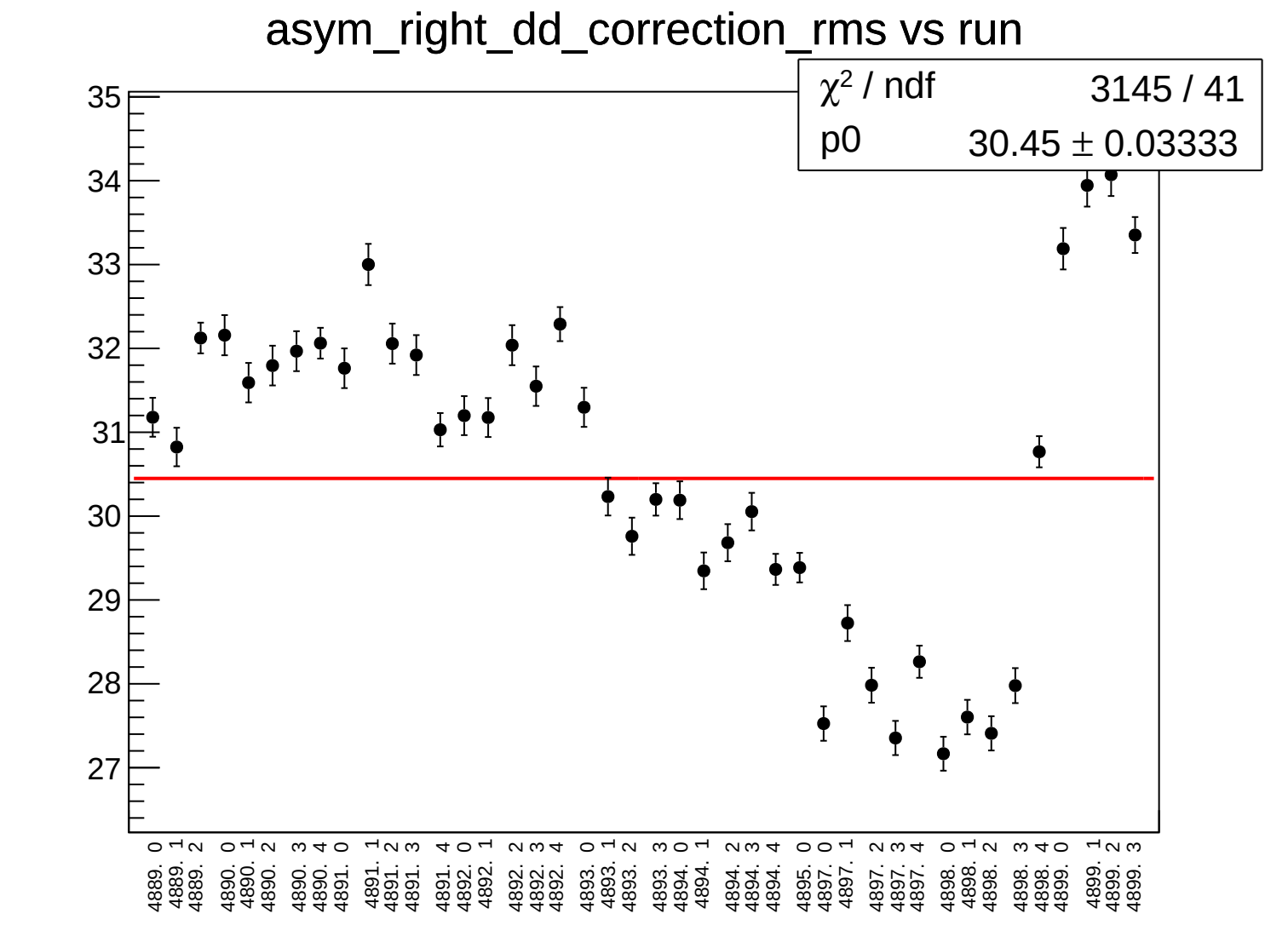

asym_right_avg_rms vs run
χ² / ndf 2268 / 41
p0 385.3 ± 0.4216
460
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

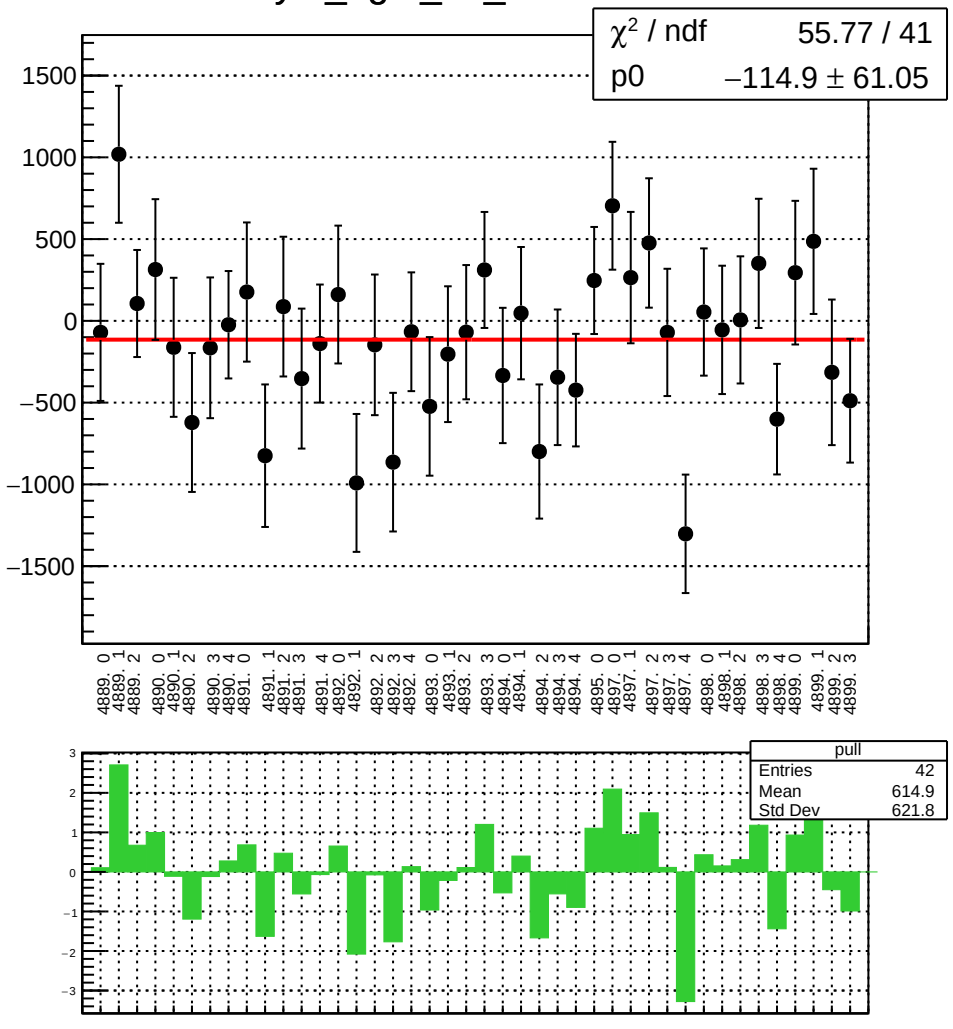

reg_asym_right_dd_mean vs run
χ² / ndf 61.31 / 41
p0 −31.74 ± 38.62
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −413.8
Std Dev 433
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.01316
Std Dev 1.208
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

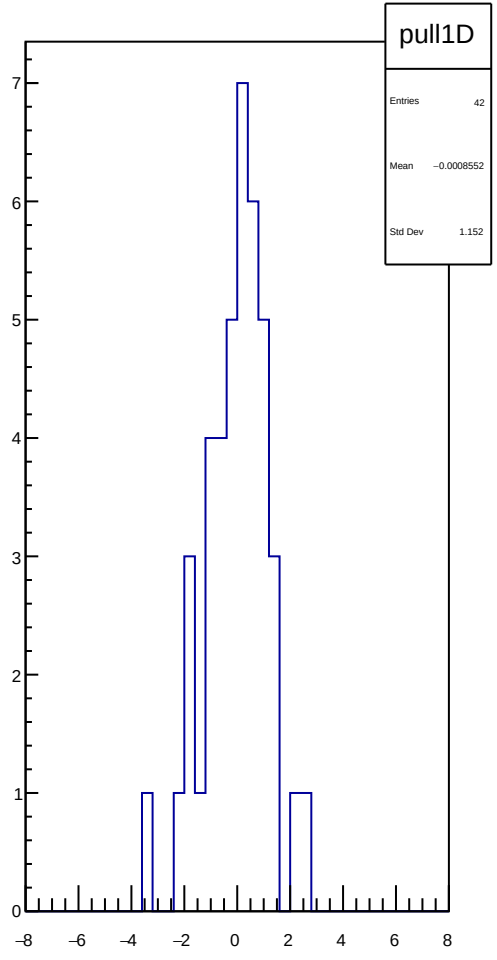

reg_asym_right_dd_rms vs run
χ² / ndf 33.78 / 41
p0 24.99 ± 0.02731
25.6
25.4
25.2
25
24.8
24.6
24.4
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

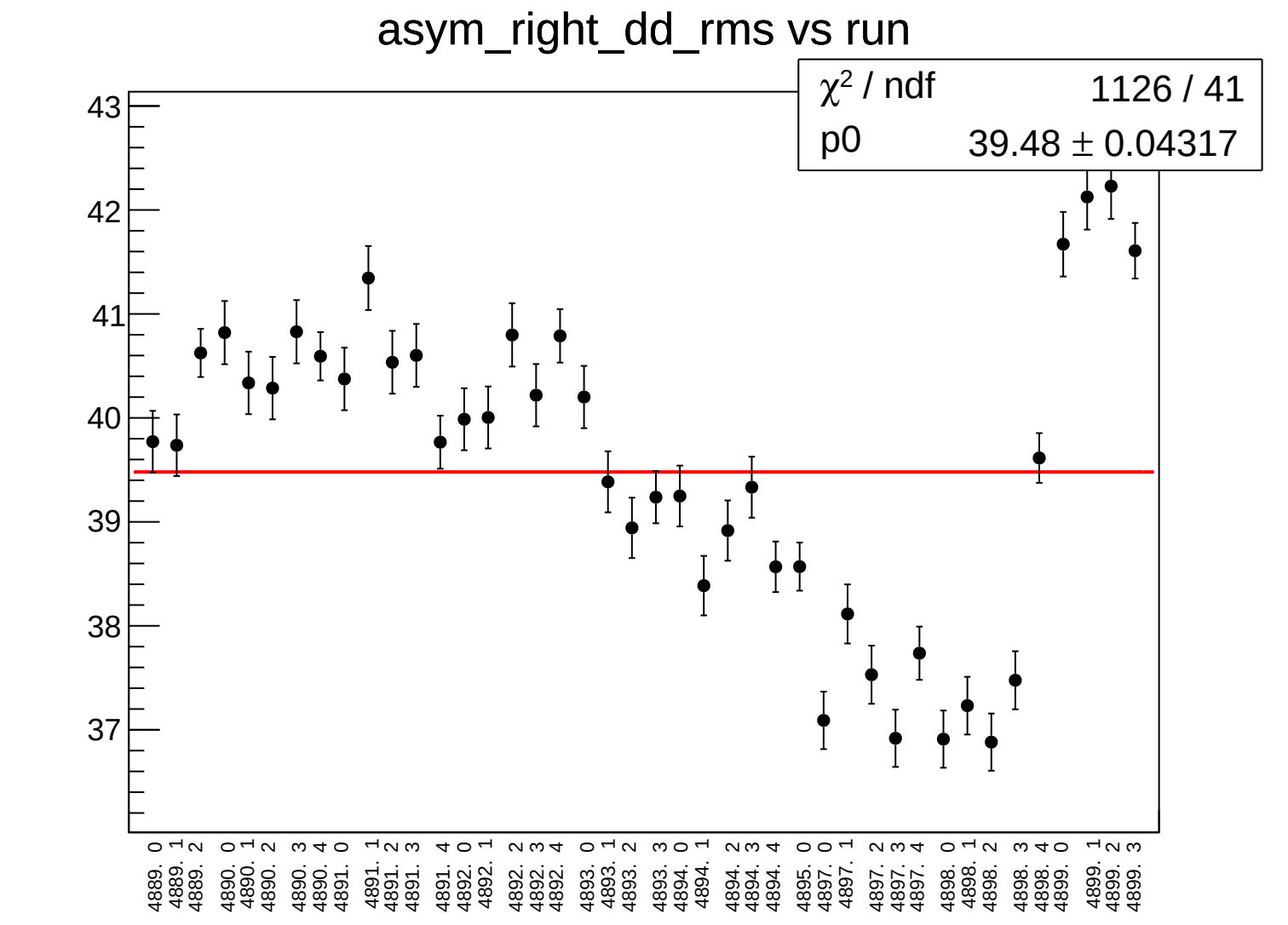

asym_right_dd_correction_mean vs run
χ² / ndf 46.12 / 41
p0 79.8 ± 47.14
1500
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −197.9
Std Dev 221.3
3
2
1
0
−1
−2

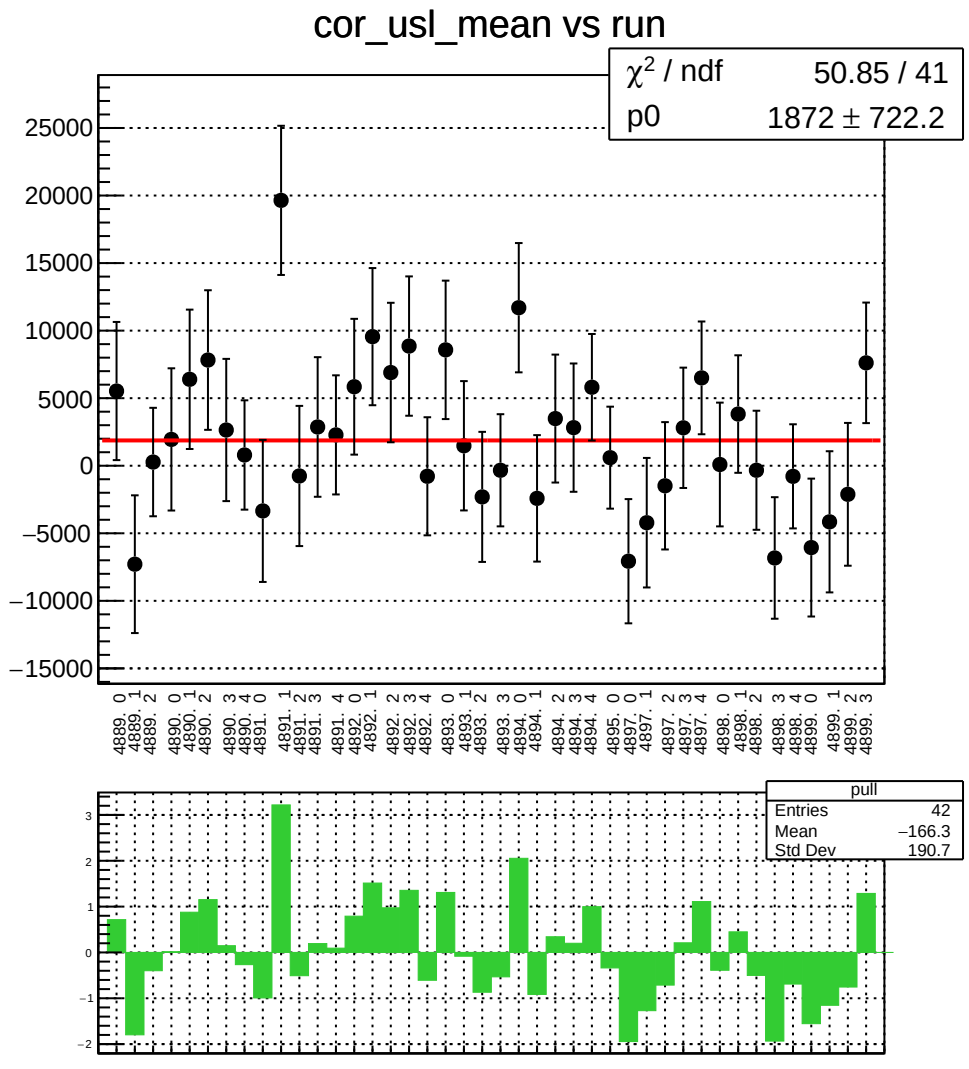

pull1D
Entries 42
Mean 0.01766
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

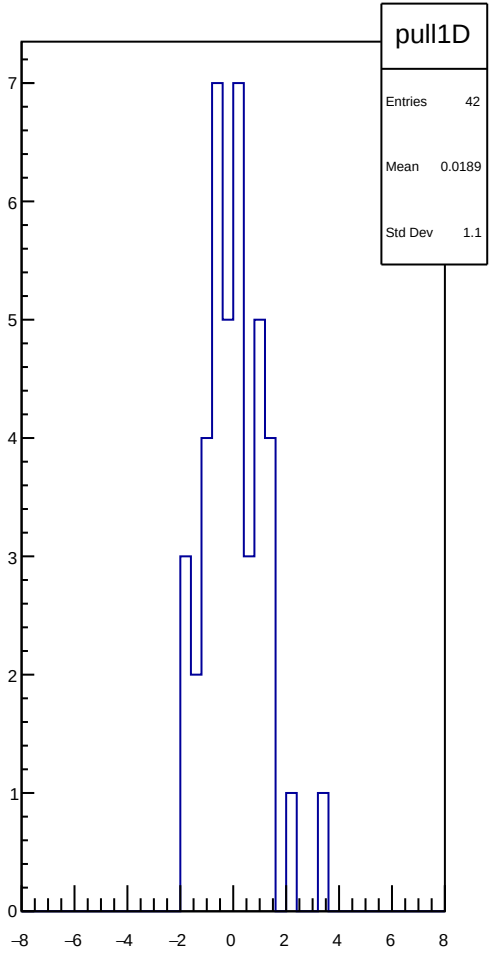

asym_right_dd_correction_rms vs run
χ² / ndf 3145 / 41
p0 30.45 ± 0.03333
35
34
33
32
31
30
29
28
27
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

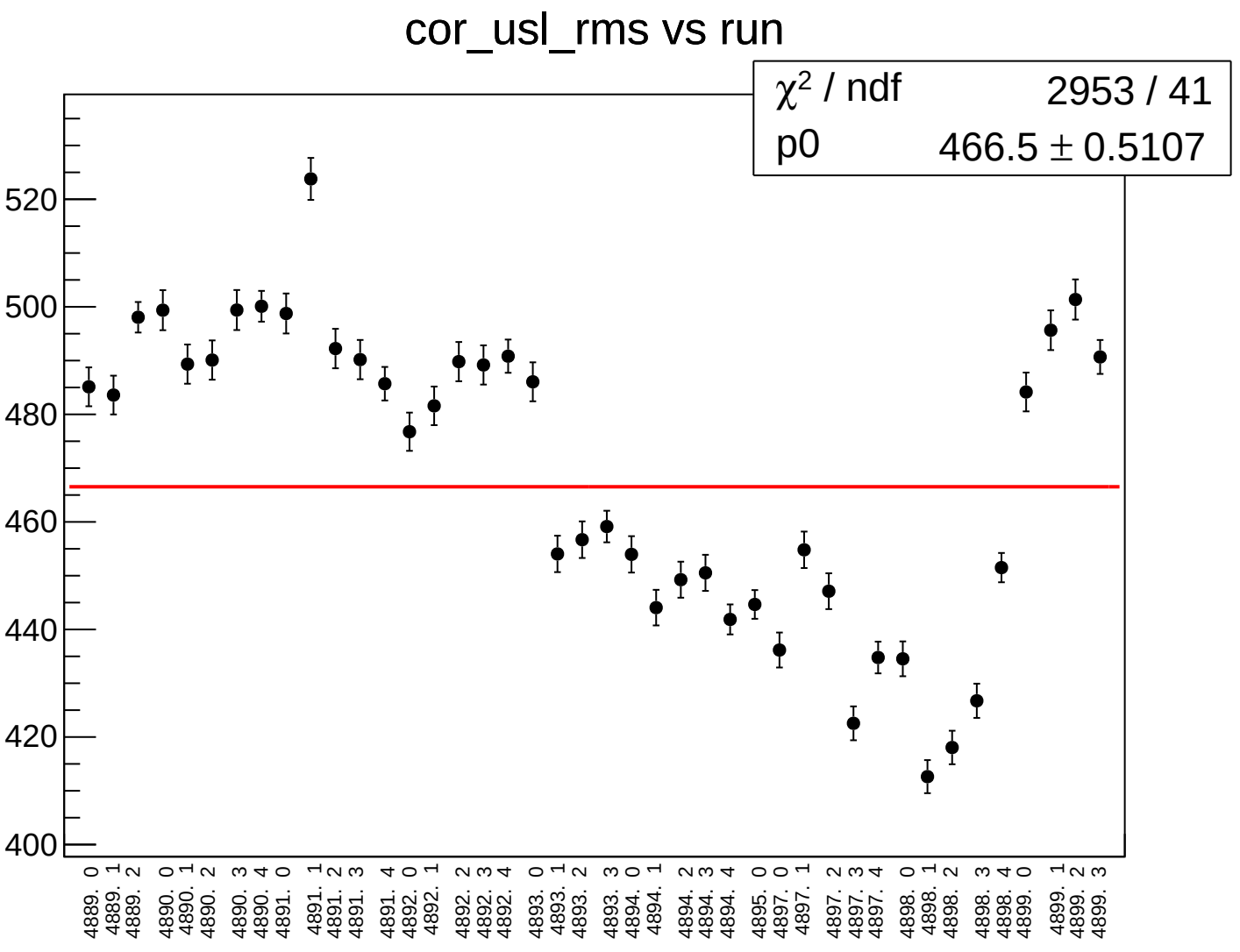

asym_right_dd_mean vs run
χ² / ndf 55.77 / 41
p0 −114.9 ± 61.05
1500
1000
500
0
−500
−1000
−1500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 614.9
Std Dev 621.8
3
2
1
0
−1
−2
−3

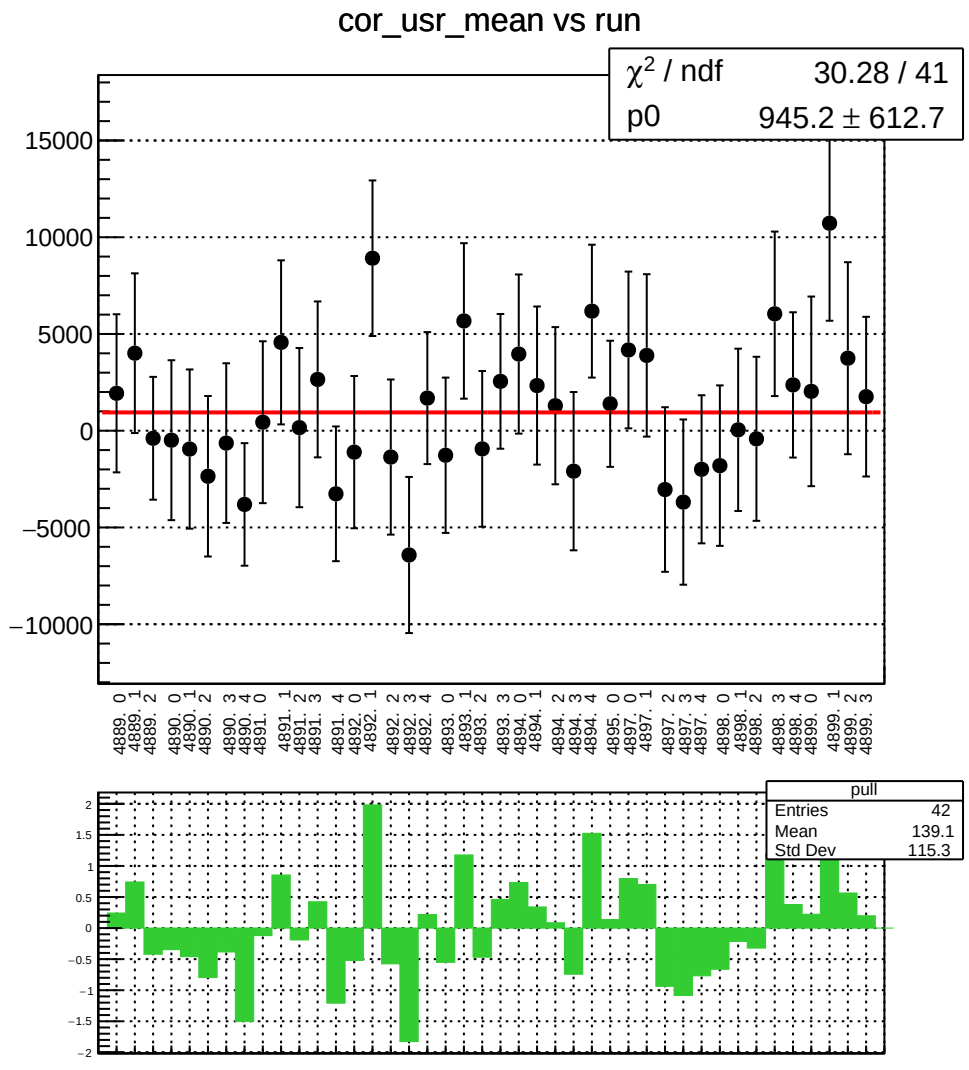

pull1D
Entries 42
Mean −0.0008552
Std Dev 1.152
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

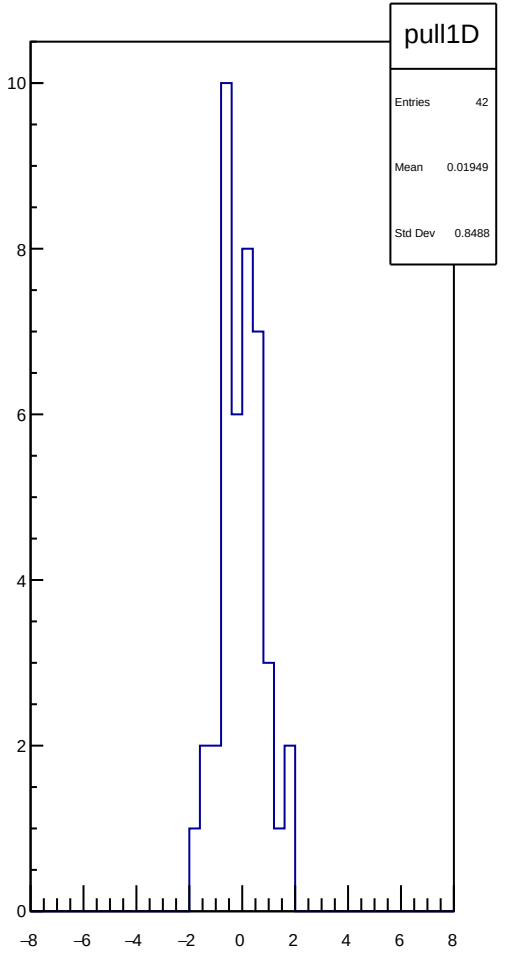

asym_right_dd_rms vs run
χ² / ndf 1126 / 41
p0 39.48 ± 0.04317
43
42
41
40
39
38
37
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

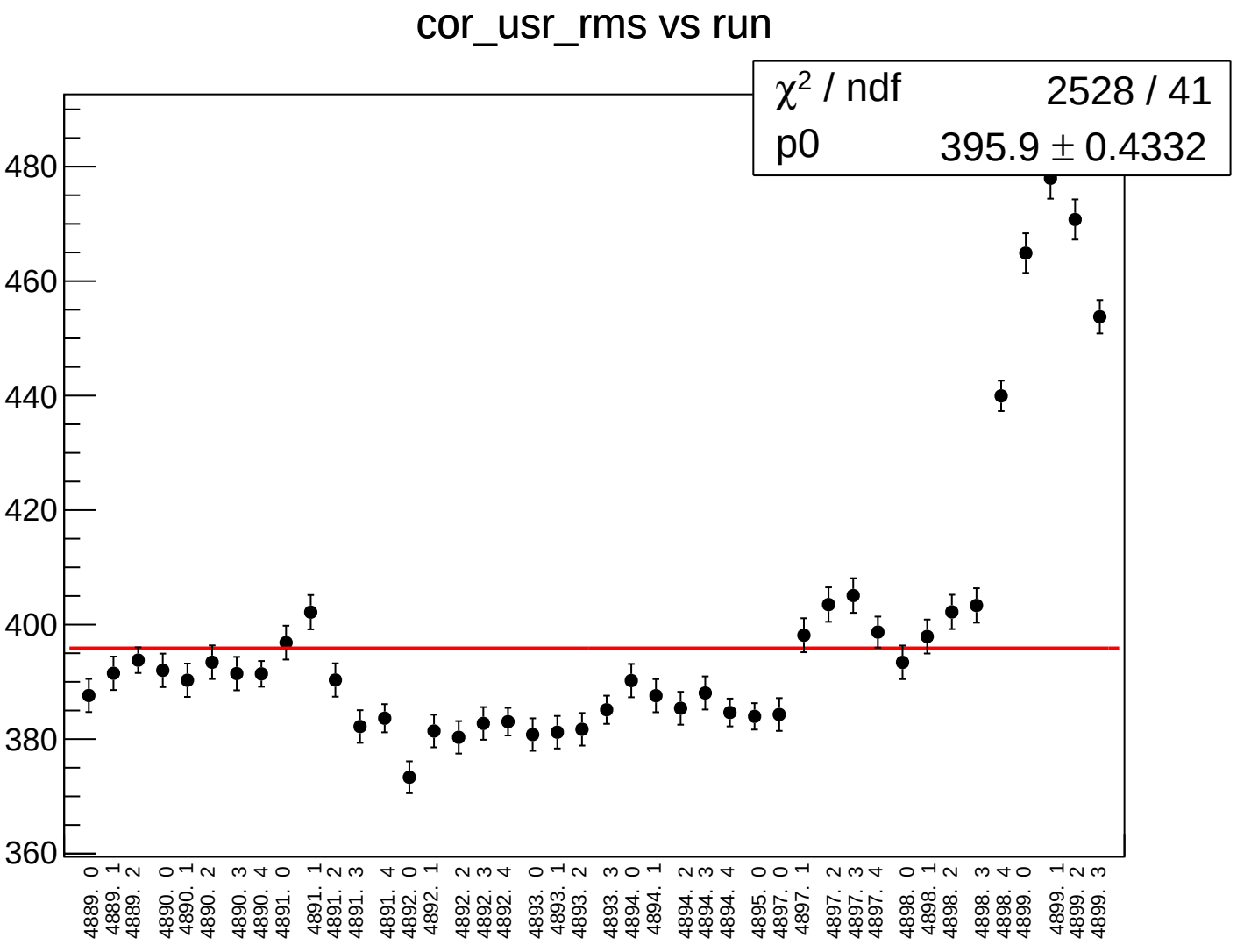

cor_usl_mean vs run
χ² / ndf 50.85 / 41
p0 1872 ± 722.2
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −166.3
Std Dev 190.7
3
2
1
0
−1
−2

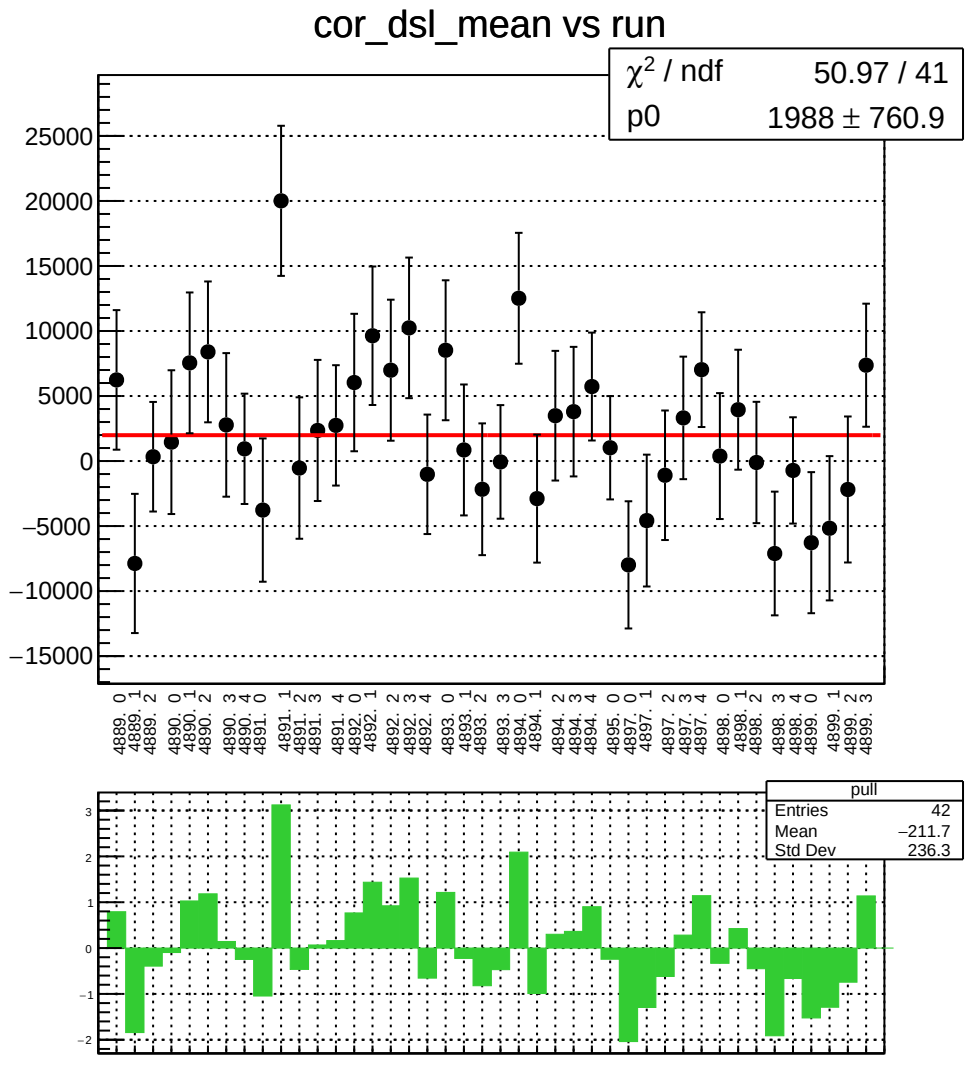

pull1D
Entries 42
Mean 0.0189
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

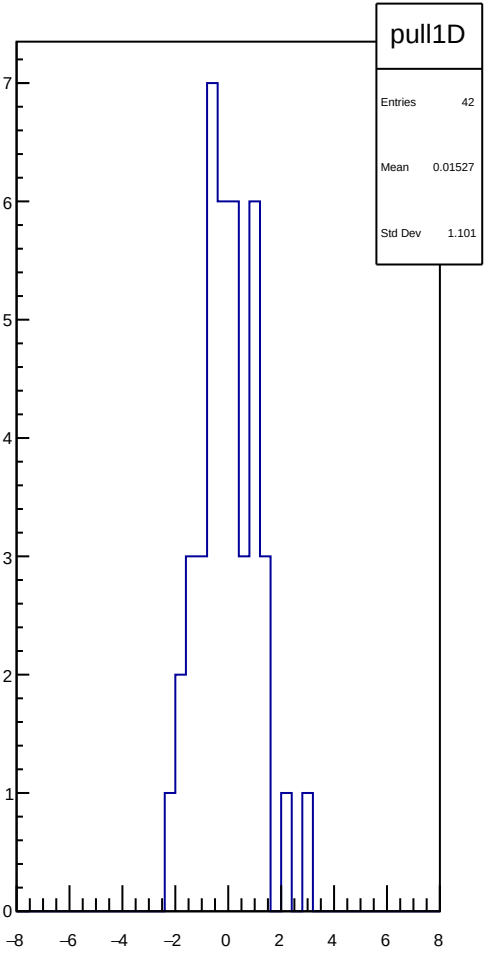

cor_usl_rms vs run
χ² / ndf 2953 / 41
p0 466.5 ± 0.5107
520
500
480
460
440
420
400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

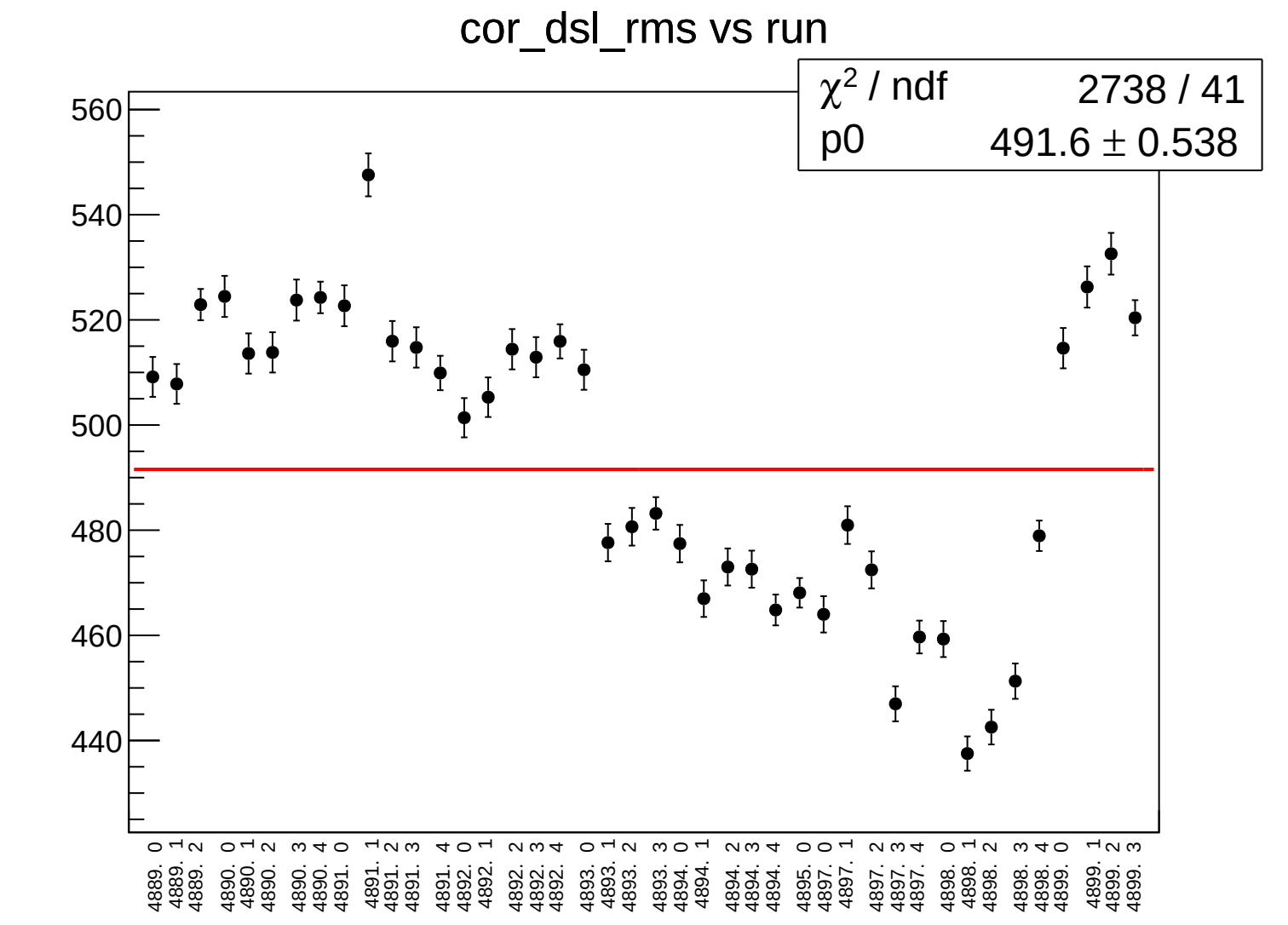

cor_usr_mean vs run
χ² / ndf 30.28 / 41
p0 945.2 ± 612.7
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 139.1
Std Dev 115.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

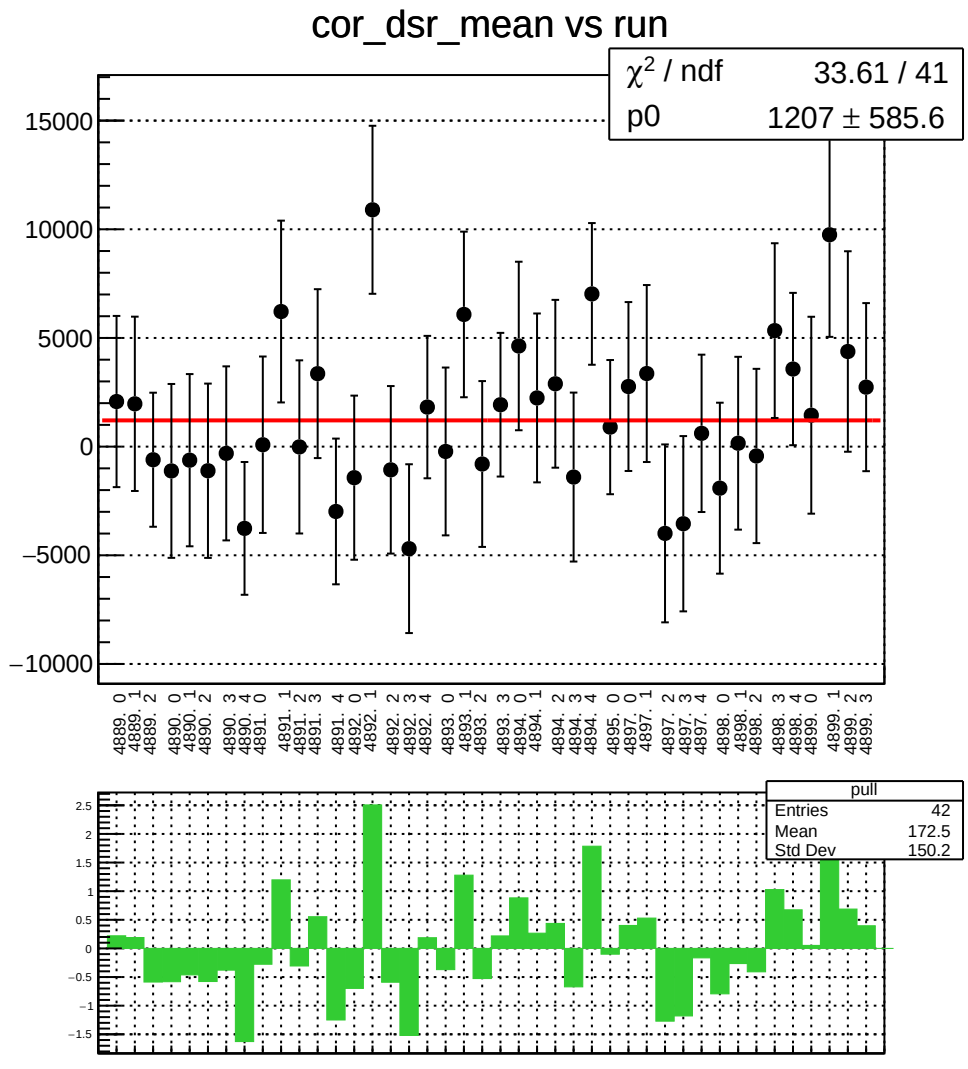

pull1D
Entries 42
Mean 0.01949
Std Dev 0.8488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

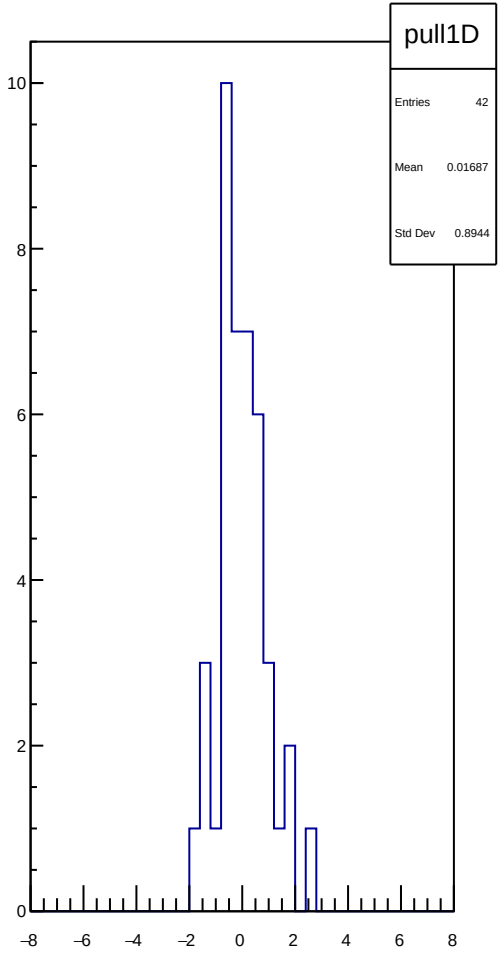

cor_usr_rms vs run
χ² / ndf 2528 / 41
p0 395.9 ± 0.4332
480
460
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

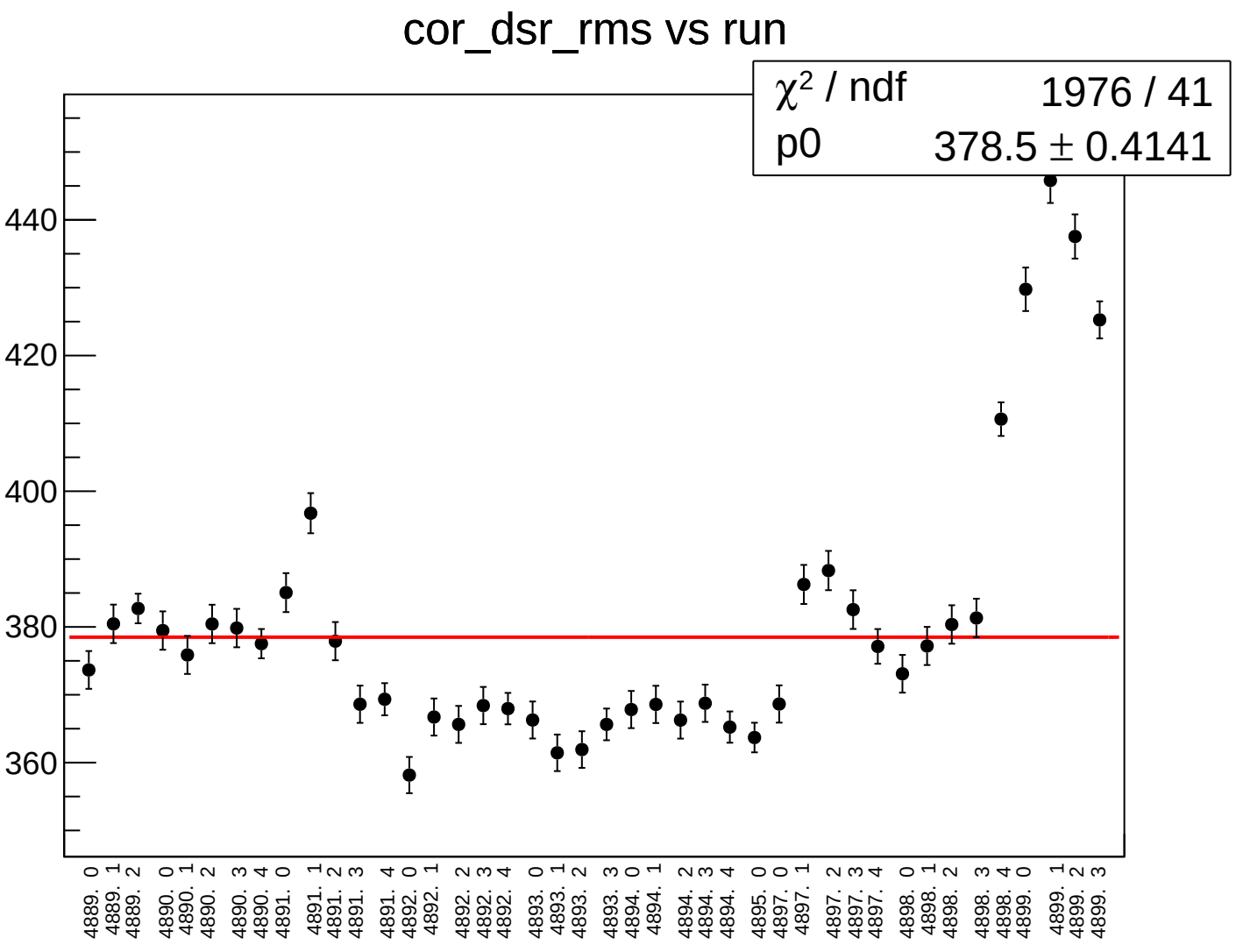

cor_dsl_mean vs run
χ² / ndf 50.97 / 41
p0 1988 ± 760.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −211.7
Std Dev 236.3
3
2
1
0
−1
−2

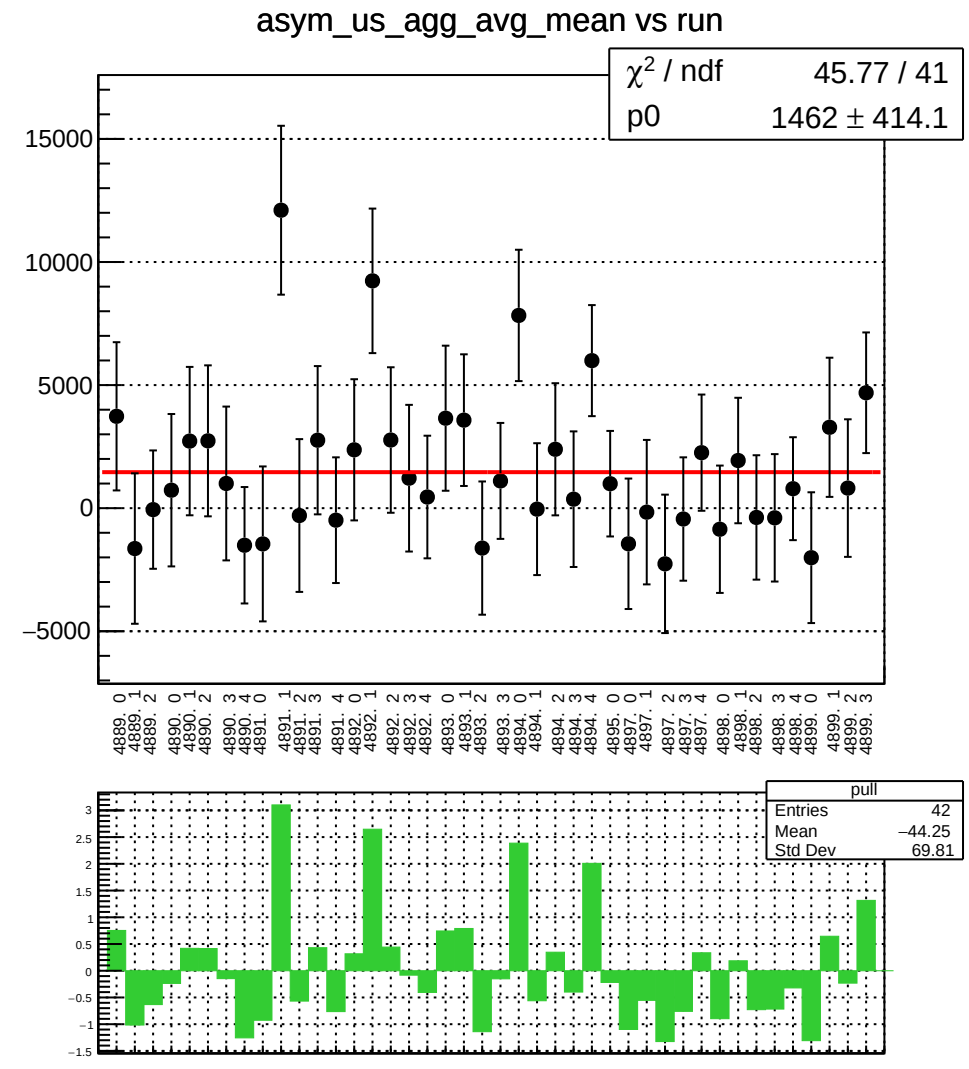

pull1D
Entries 42
Mean 0.01527
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

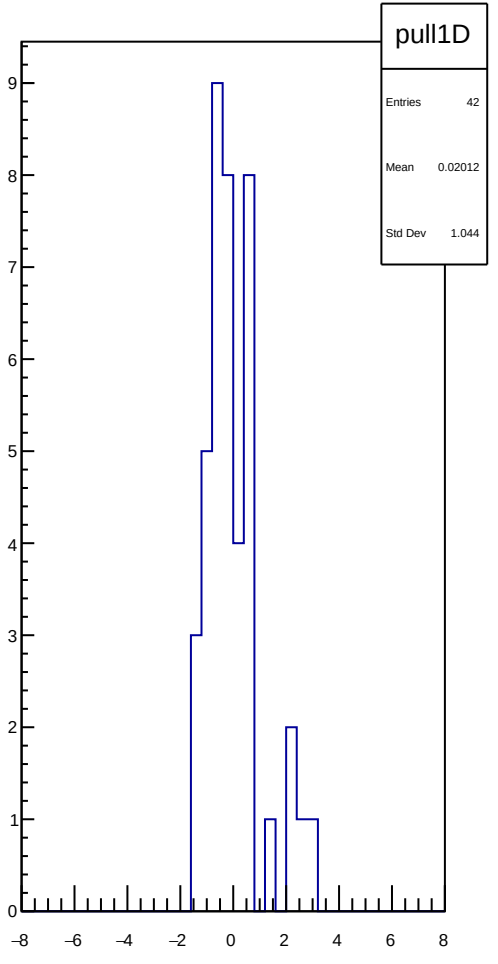

cor_dsl_rms vs run
χ² / ndf 2738 / 41
p0 491.6 ± 0.538
560
540
520
500
480
460
440
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

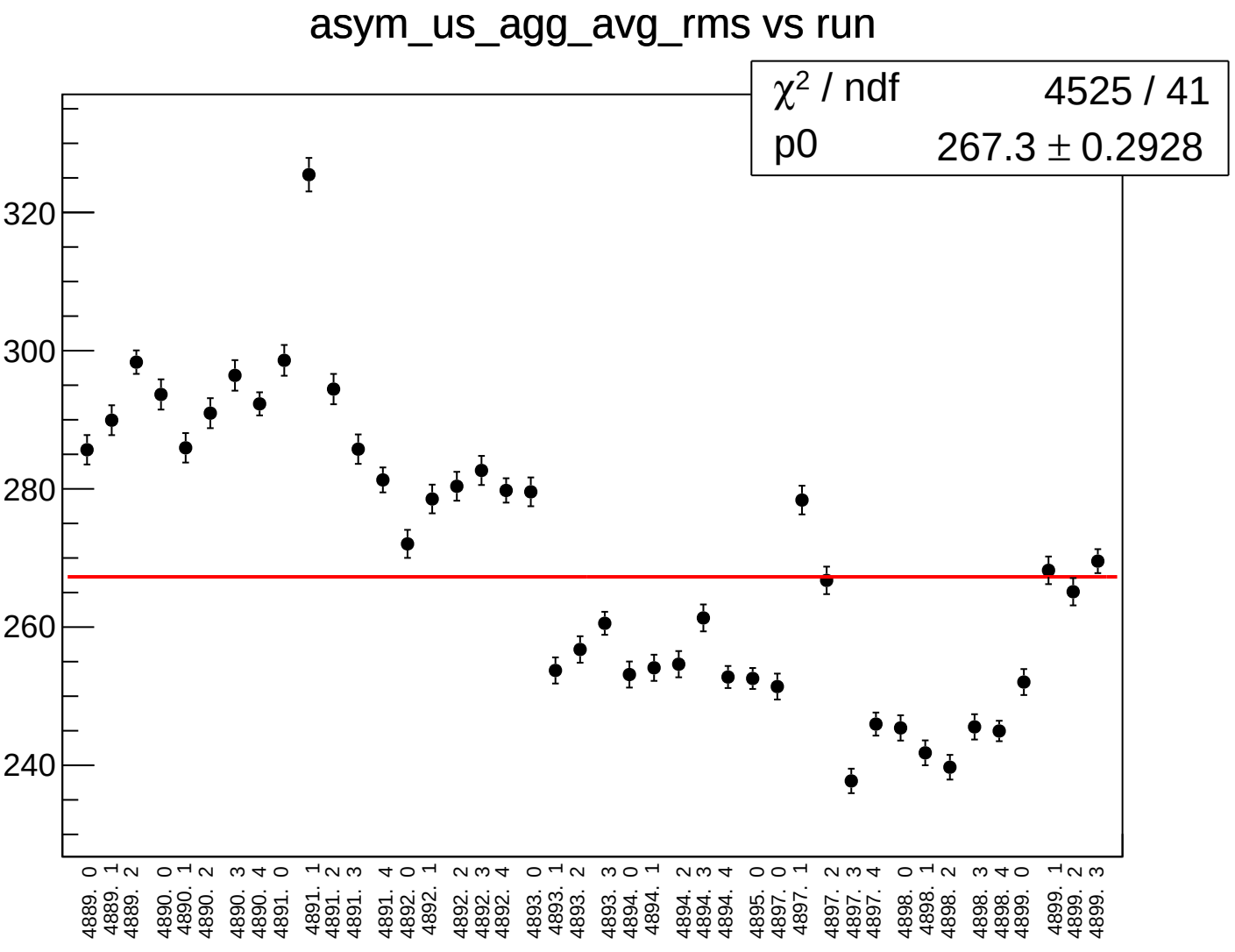

cor_dsr_mean vs run
χ² / ndf 33.61 / 41
p0 1207 ± 585.6
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 172.5
Std Dev 150.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

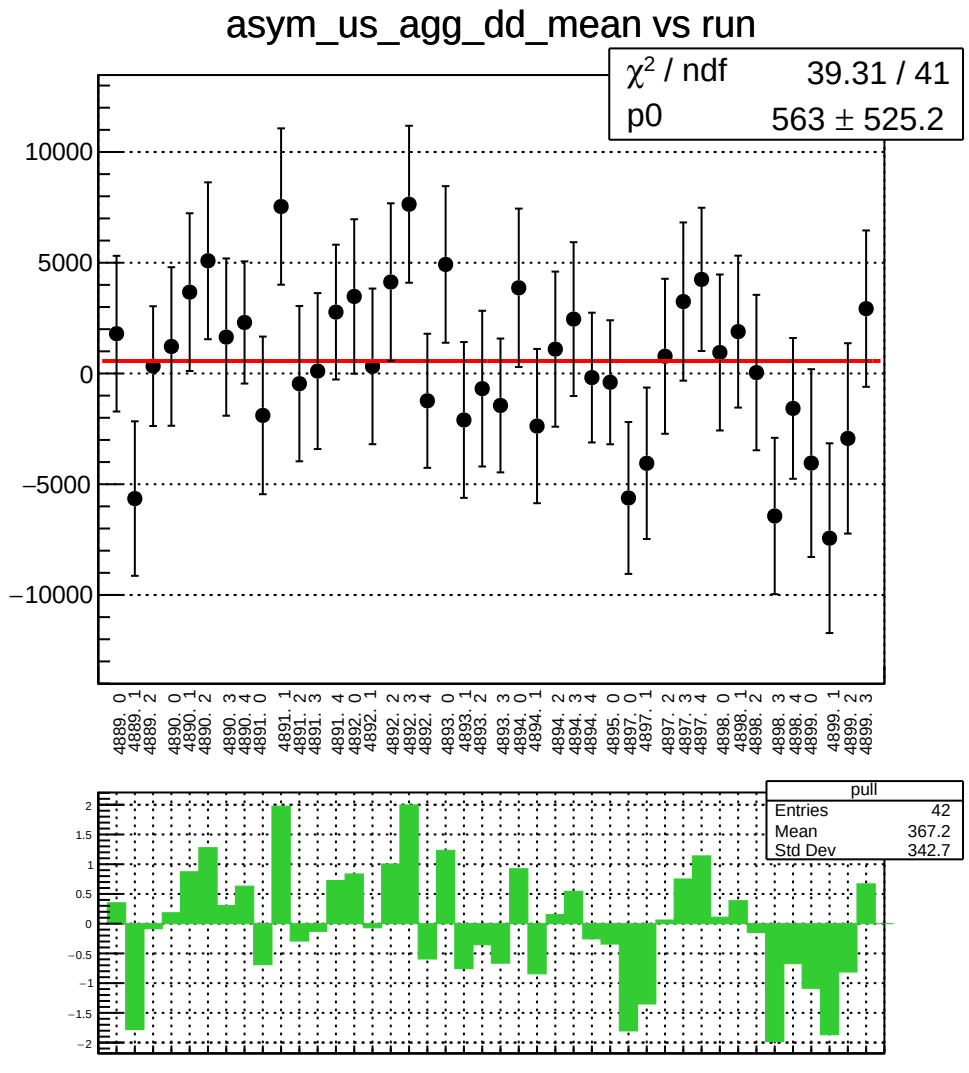

pull1D
Entries 42
Mean 0.01687
Std Dev 0.8944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

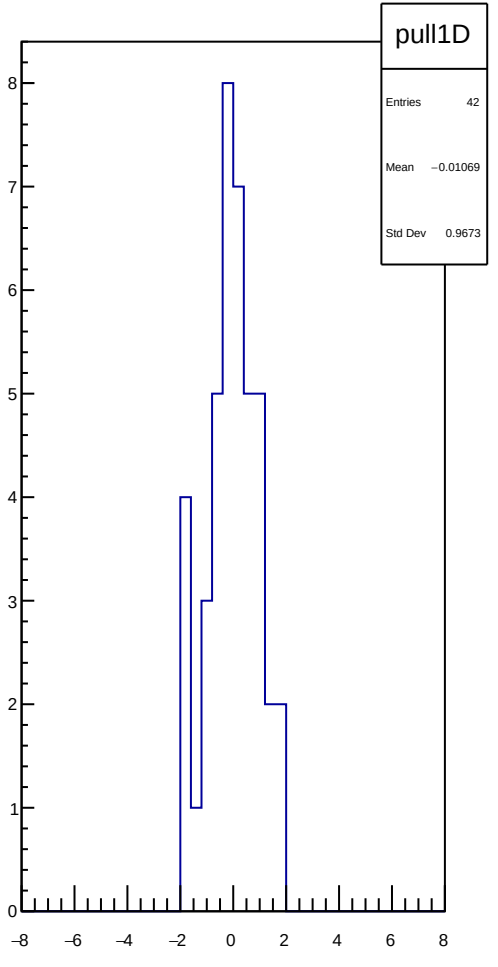

cor_dsr_rms vs run
χ² / ndf 1976 / 41
p0 378.5 ± 0.4141
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

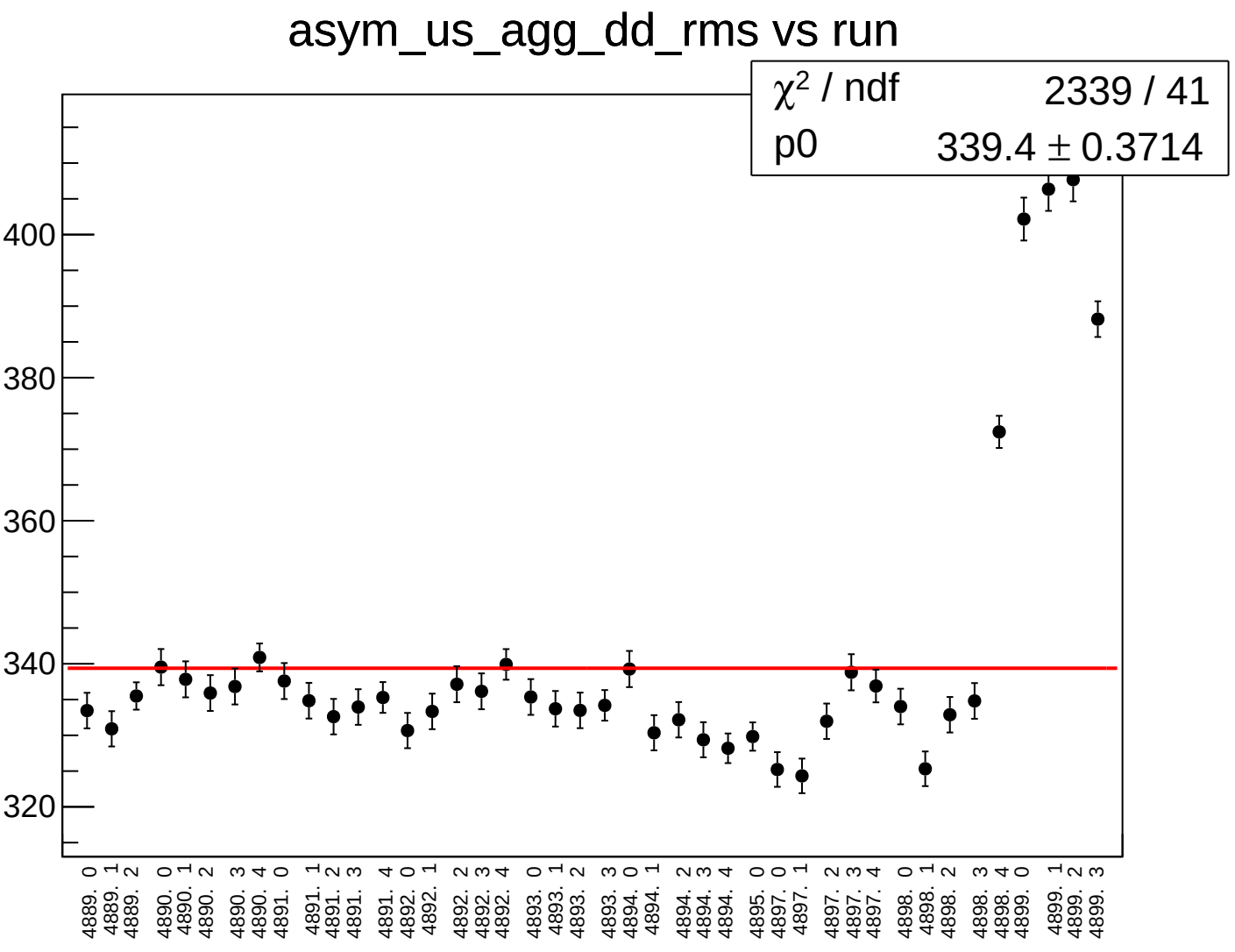

asym_us_agg_avg_mean vs run
χ² / ndf 45.77 / 41
p0 1462 ± 414.1
15000
10000
5000
0
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −44.25
Std Dev 69.81
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

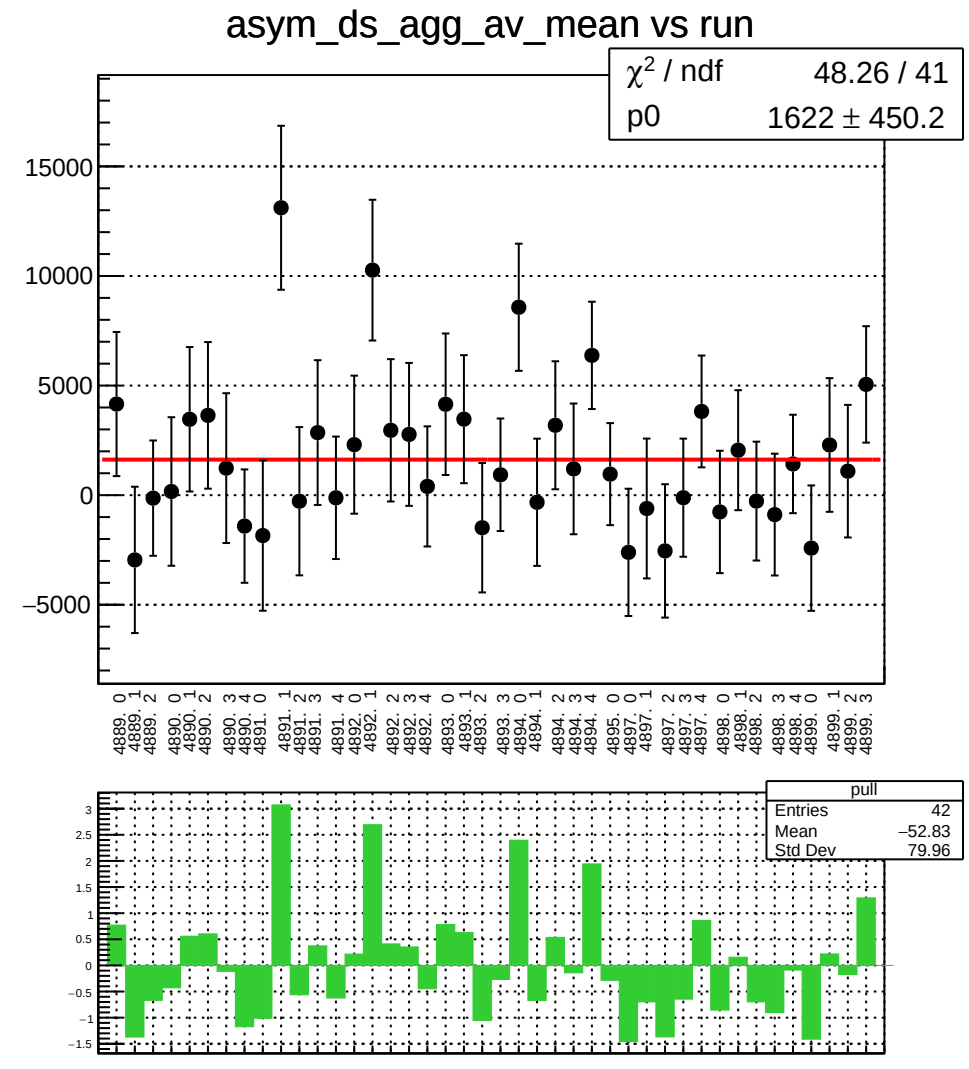

pull1D
Entries 42
Mean 0.02012
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

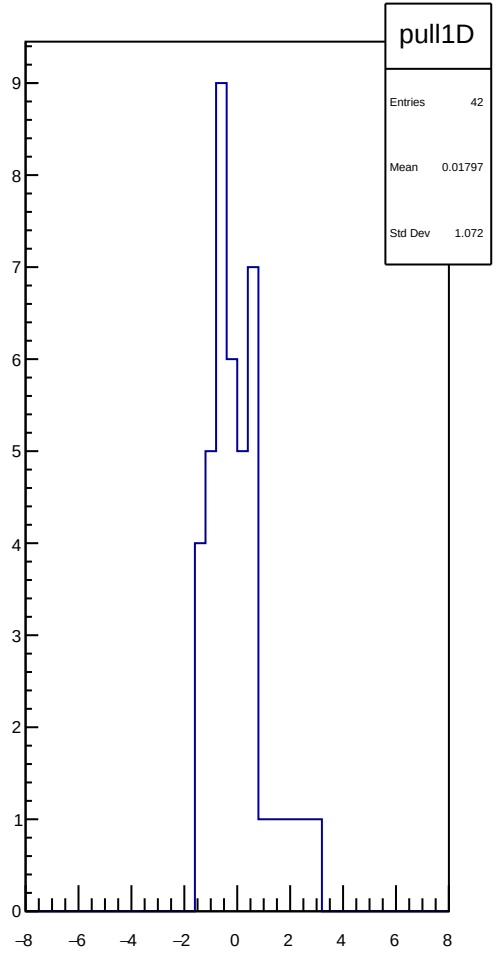

asym_us_agg_avg_rms vs run
χ² / ndf 4525 / 41
p0 267.3 ± 0.2928
320
300
280
260
240
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

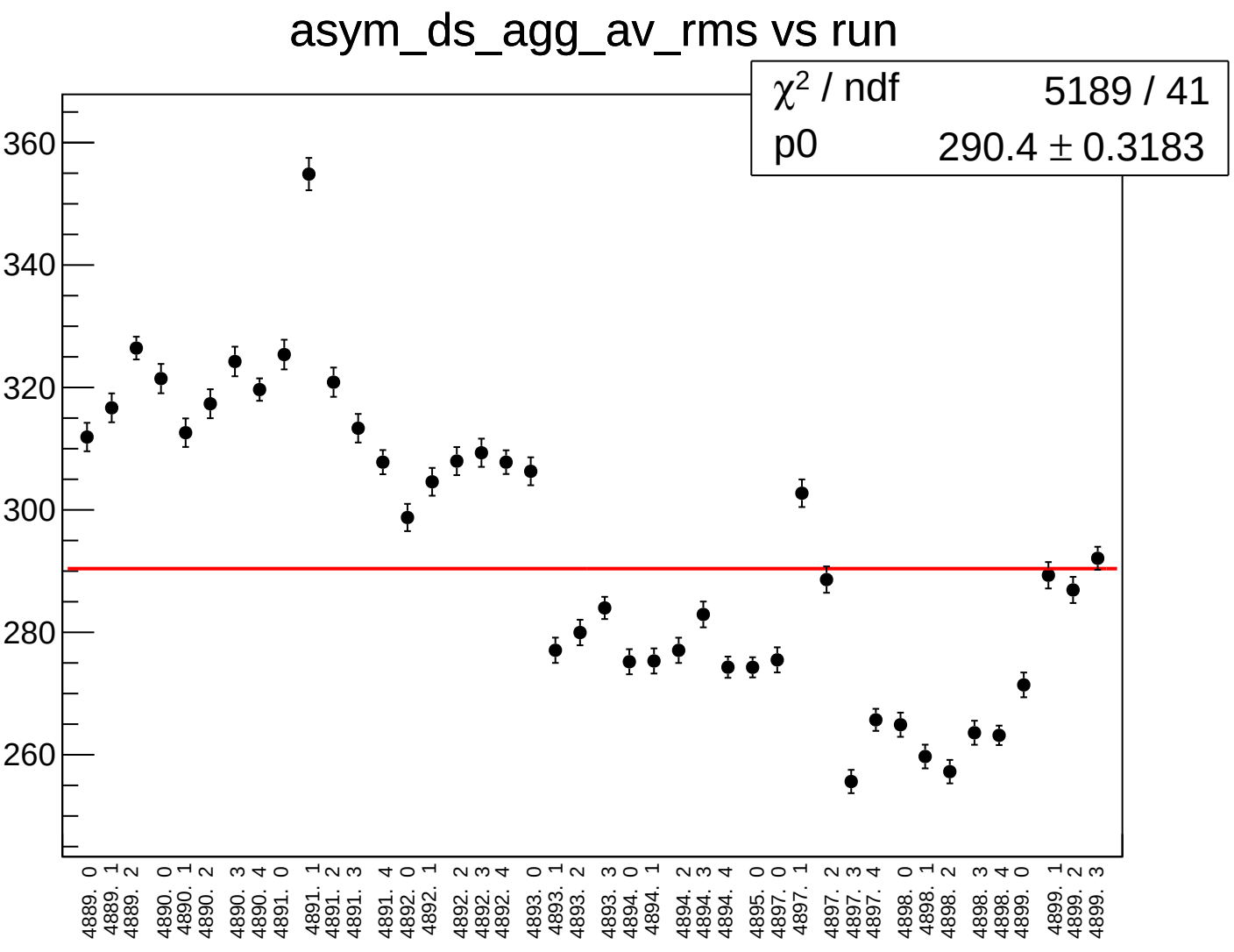

asym_us_agg_dd_mean vs run
χ^2 / ndf 39.31 / 41
p0 563 ± 525.2
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 367.2
Std Dev 342.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

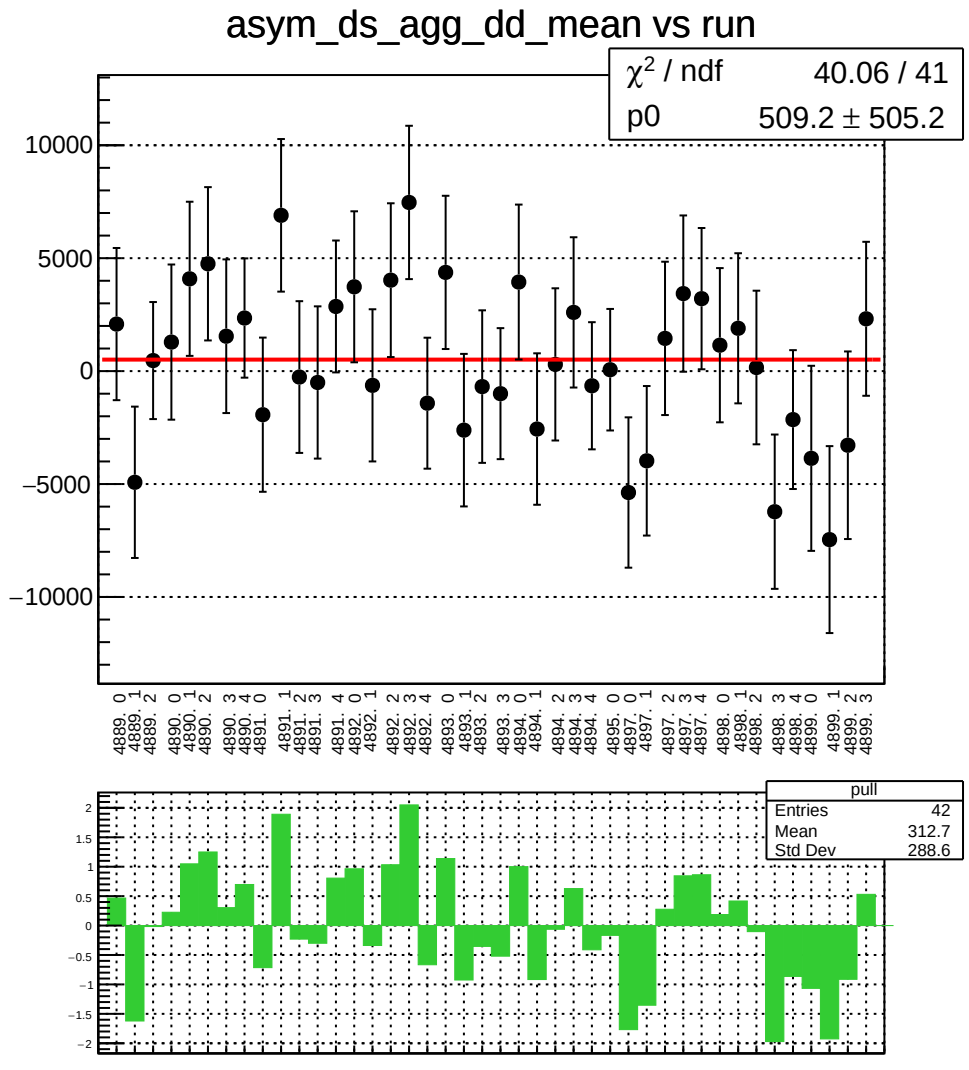

pull1D
Entries 42
Mean −0.01069
Std Dev 0.9673
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

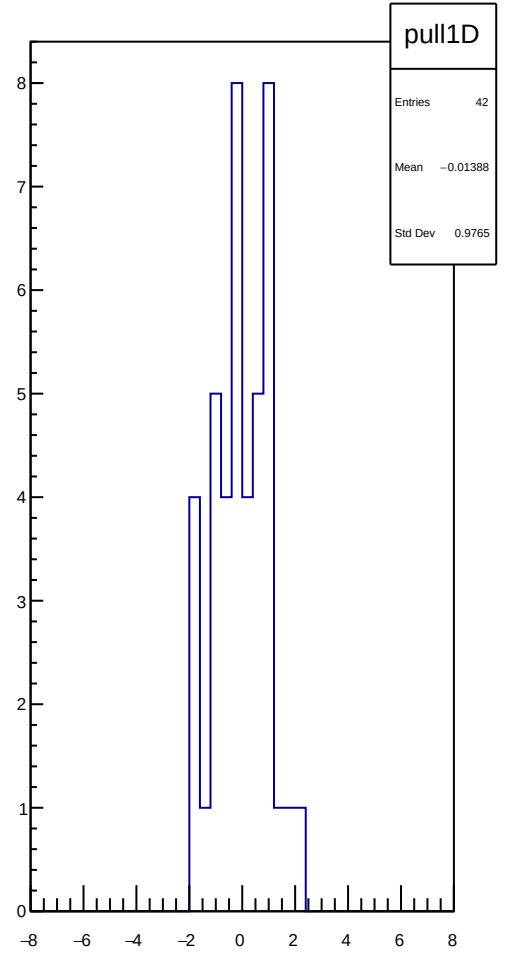

asym_us_agg_dd_rms vs run
χ² / ndf 2339 / 41
p0 339.4 ± 0.3714
400
380
360
340
320
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

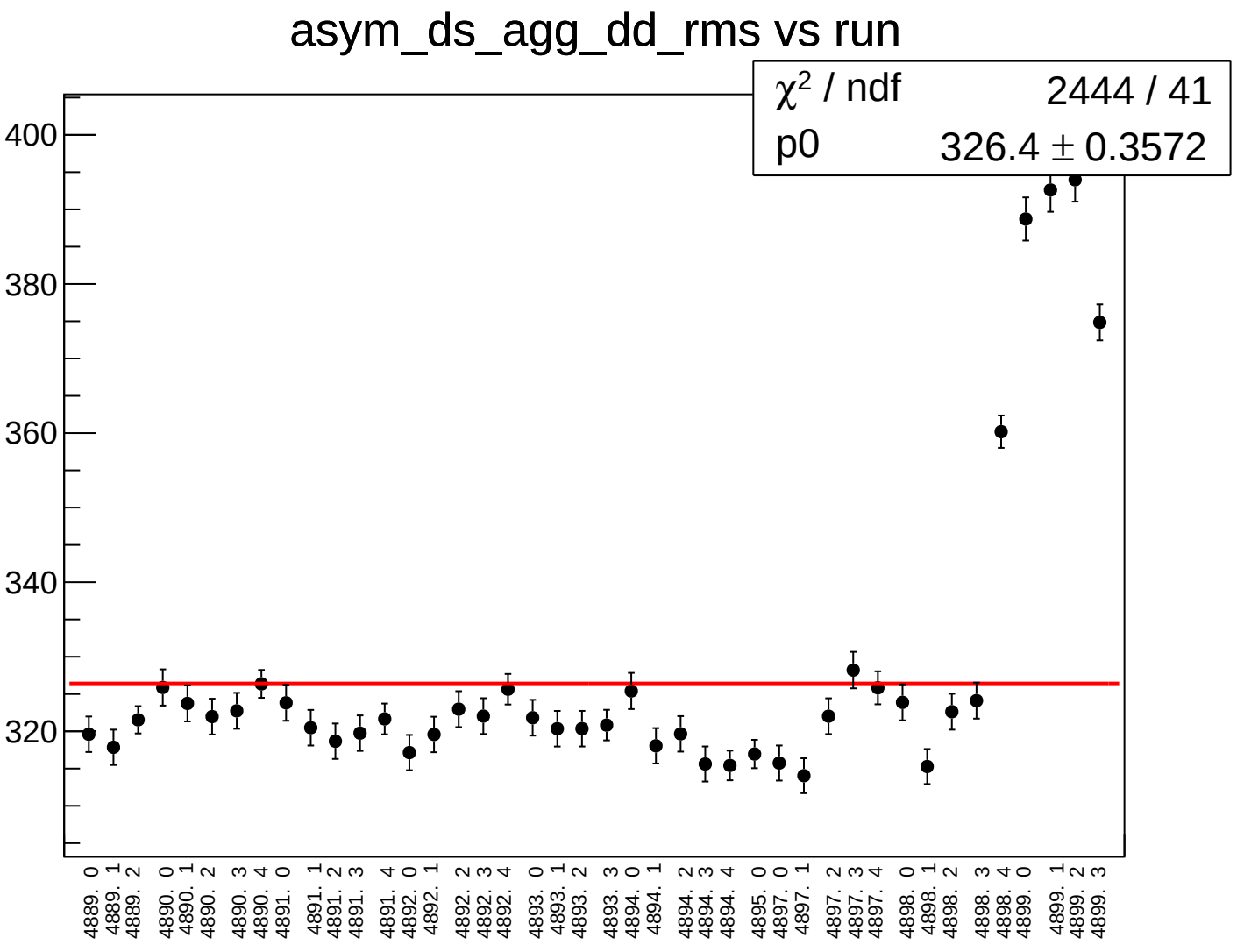

asym_ds_agg_av_mean vs run
χ² / ndf 48.26 / 41
p0 1622 ± 450.2
15000
10000
5000
0
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −52.83
Std Dev 79.96
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

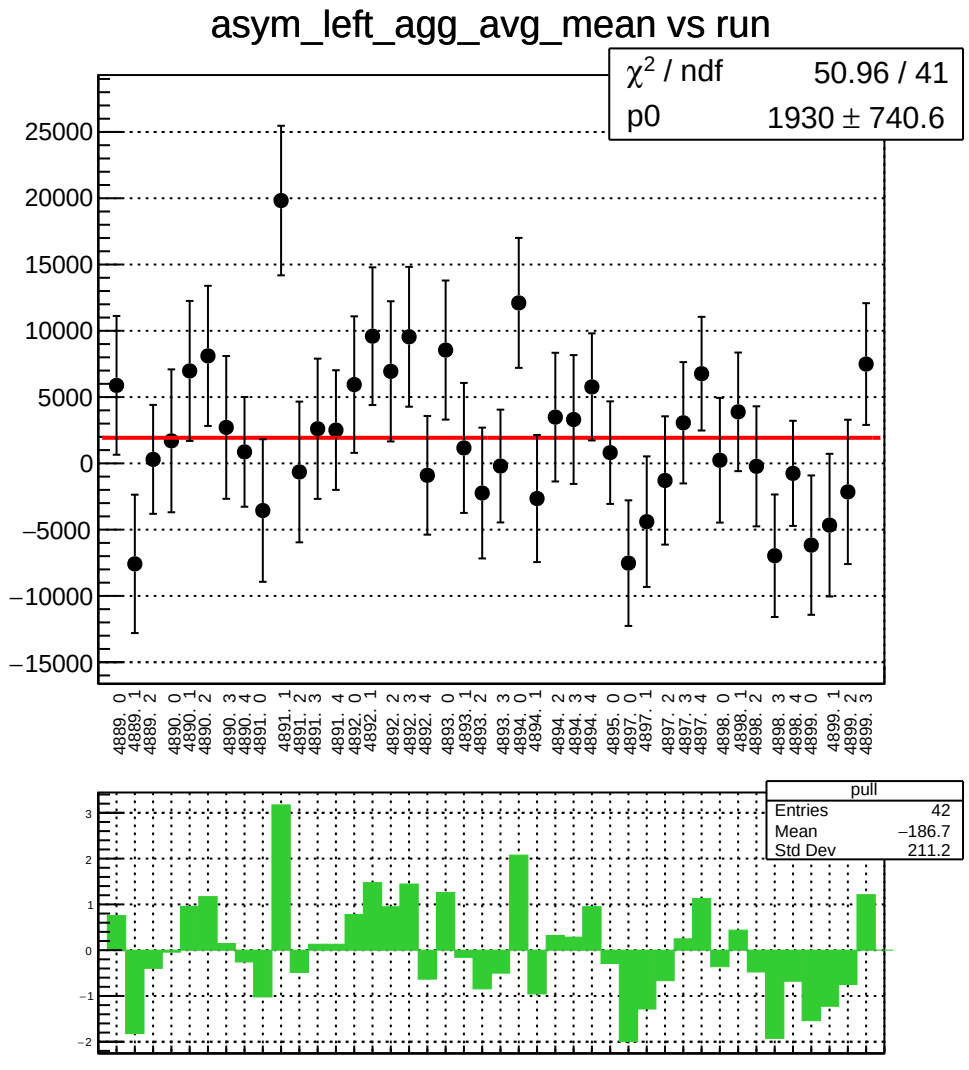

pull1D
Entries 42
Mean 0.01797
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

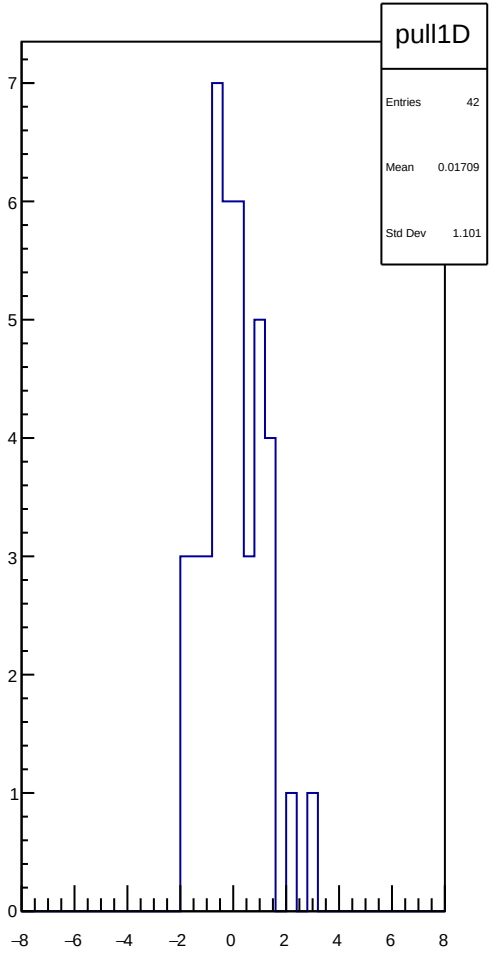

asym_ds_agg_av_rms vs run
χ^2 / ndf 5189 / 41
p0 290.4 ± 0.3183
360
340
320
300
280
260
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

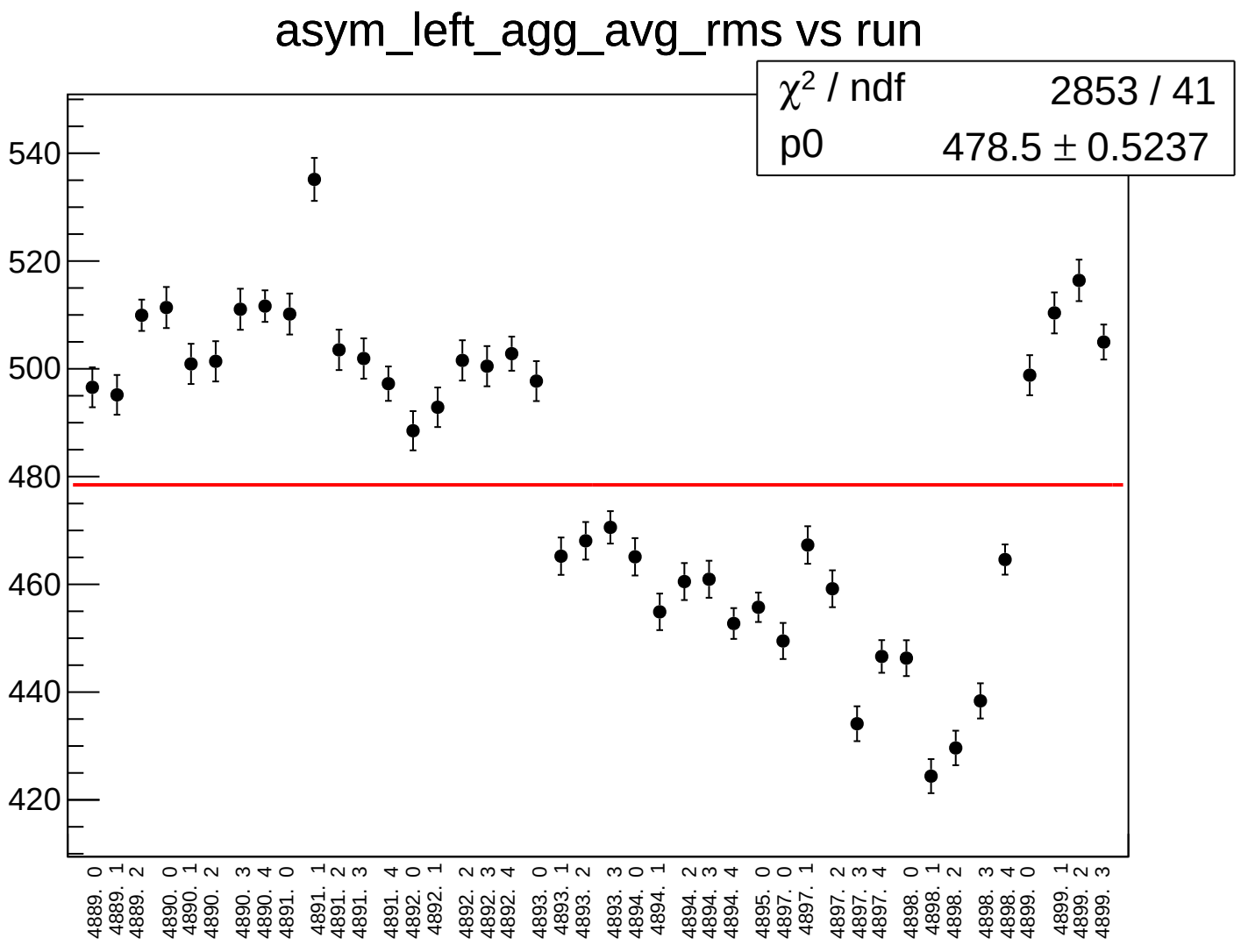

asym_ds_agg_dd_mean vs run
χ² / ndf 40.06 / 41
p0 509.2 ± 505.2
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 312.7
Std Dev 288.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

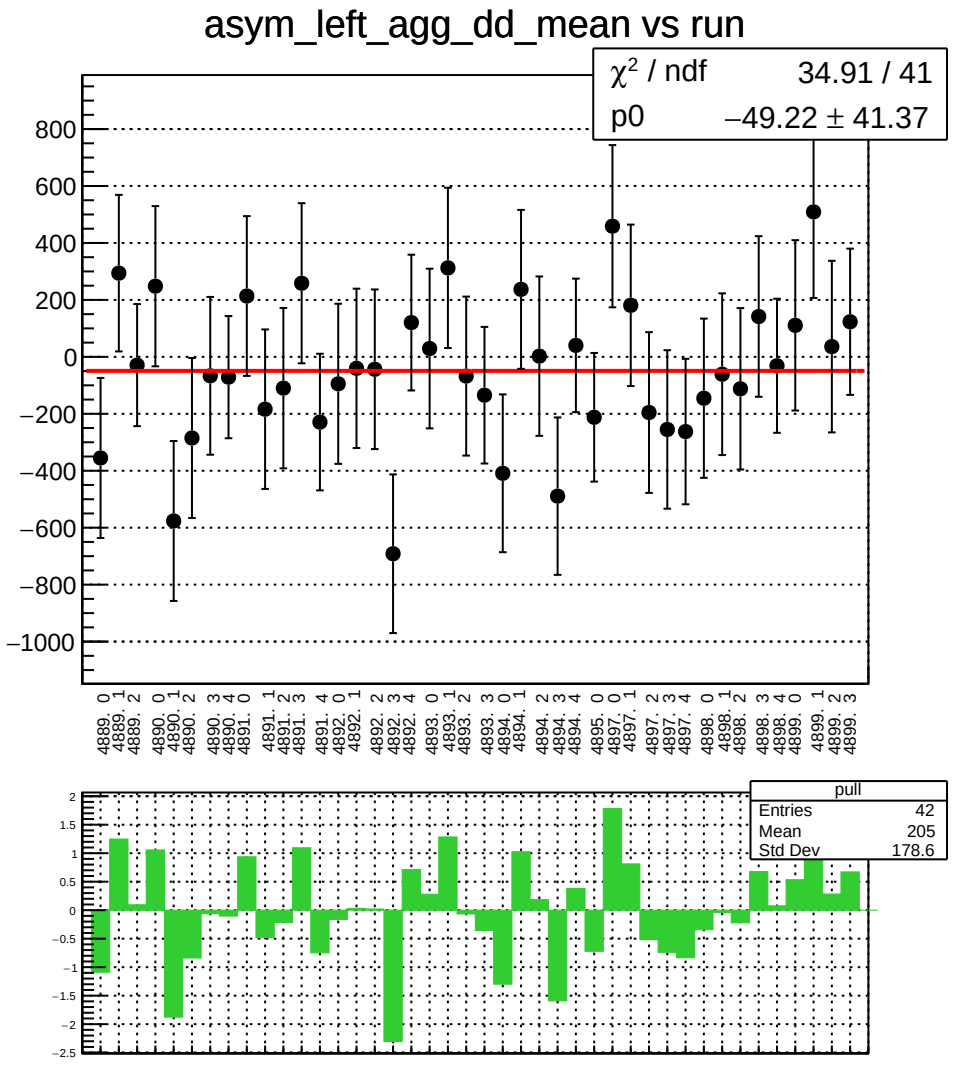

pull1D
Entries 42
Mean −0.01388
Std Dev 0.9765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

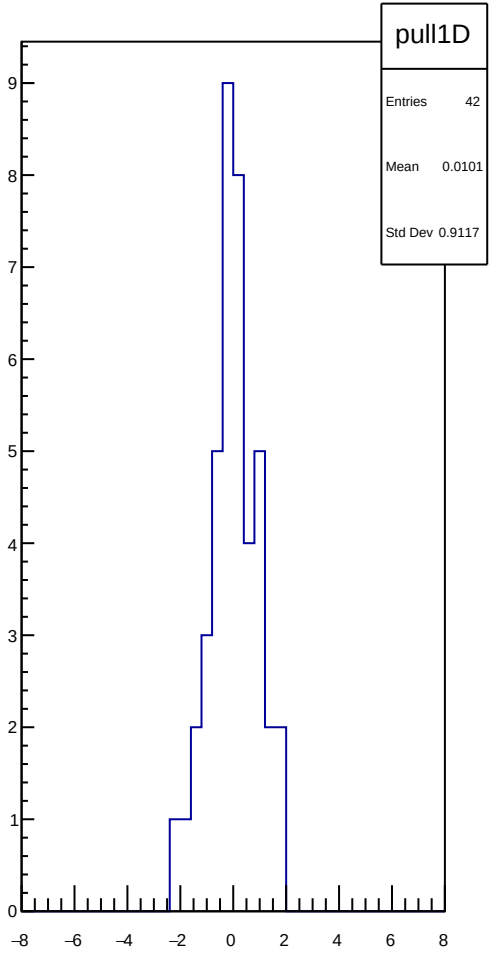

asym_ds_agg_dd_rms vs run
χ² / ndf 2444 / 41
p0 326.4 ± 0.3572
400
380
360
340
320
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

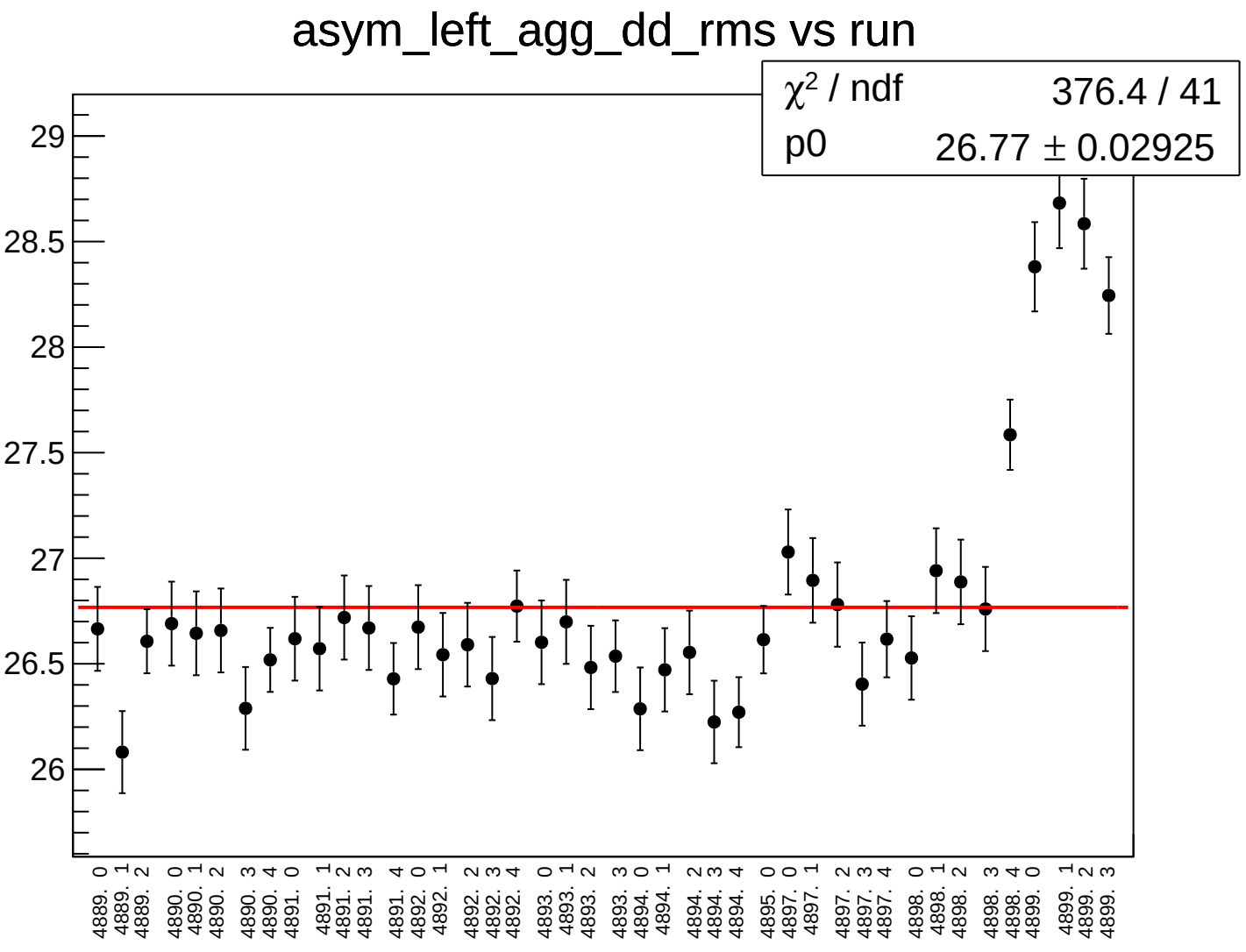

asym_left_agg_avg_mean vs run
χ² / ndf 50.96 / 41
p0 1930 ± 740.6
pull
Entries 42
Mean −186.7
Std Dev 211.2

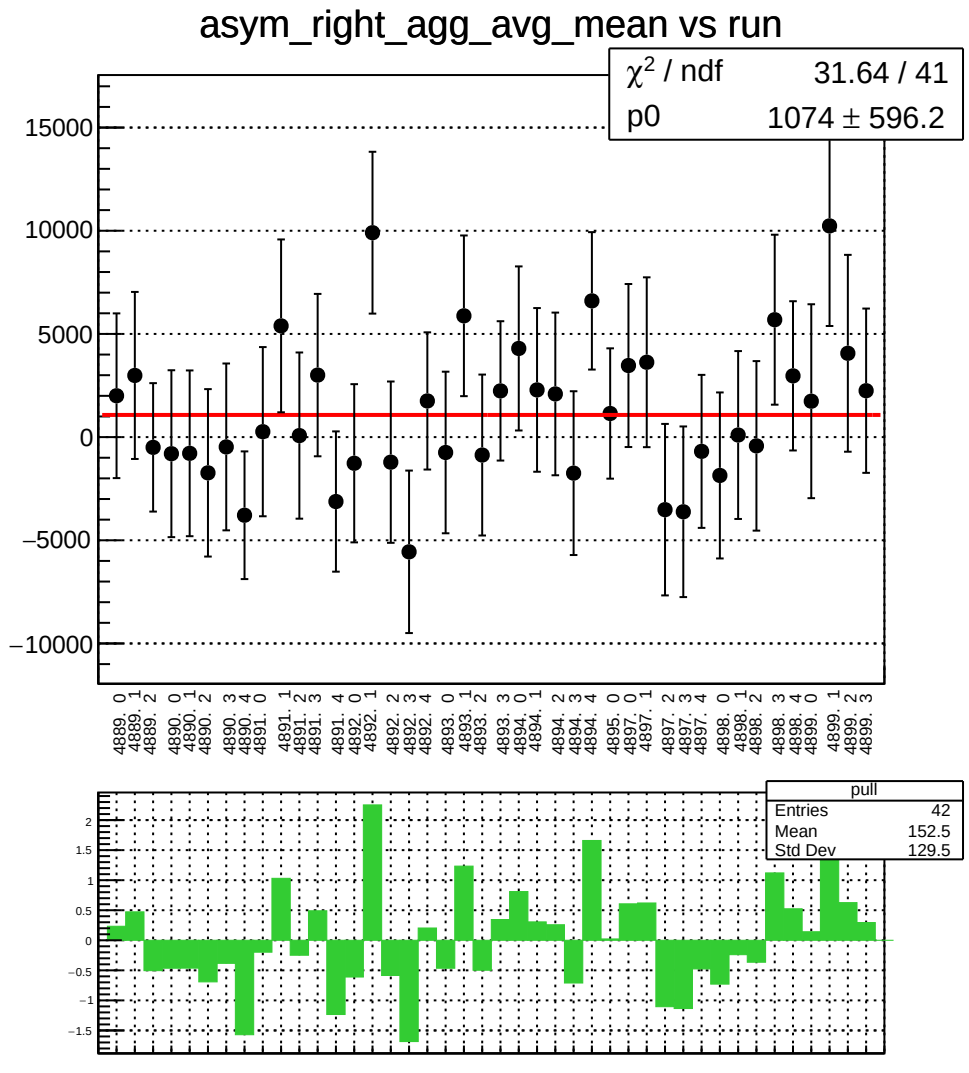

pull1D
Entries 42
Mean 0.01709
Std Dev 1.101

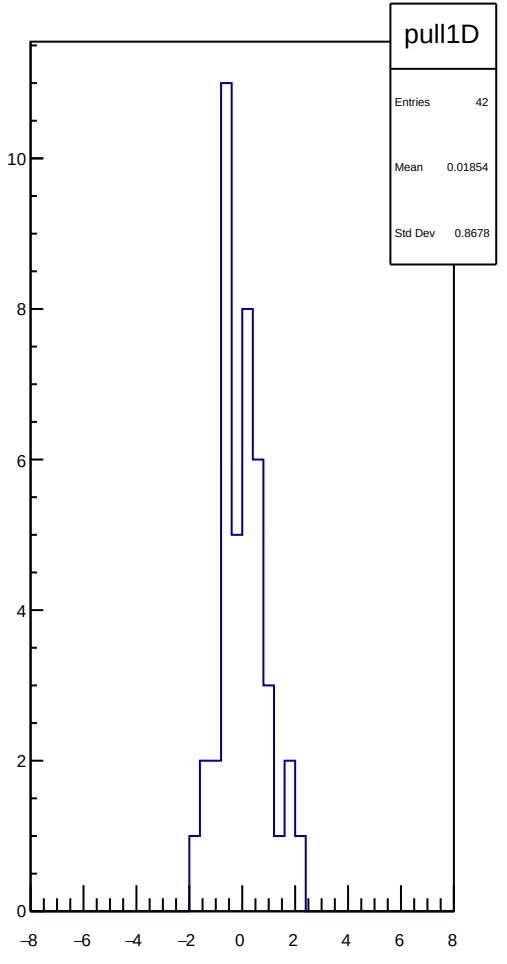

asym_left_agg_avg_rms vs run
χ² / ndf 2853 / 41
p0 478.5 ± 0.5237
540
520
500
480
460
440
420
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

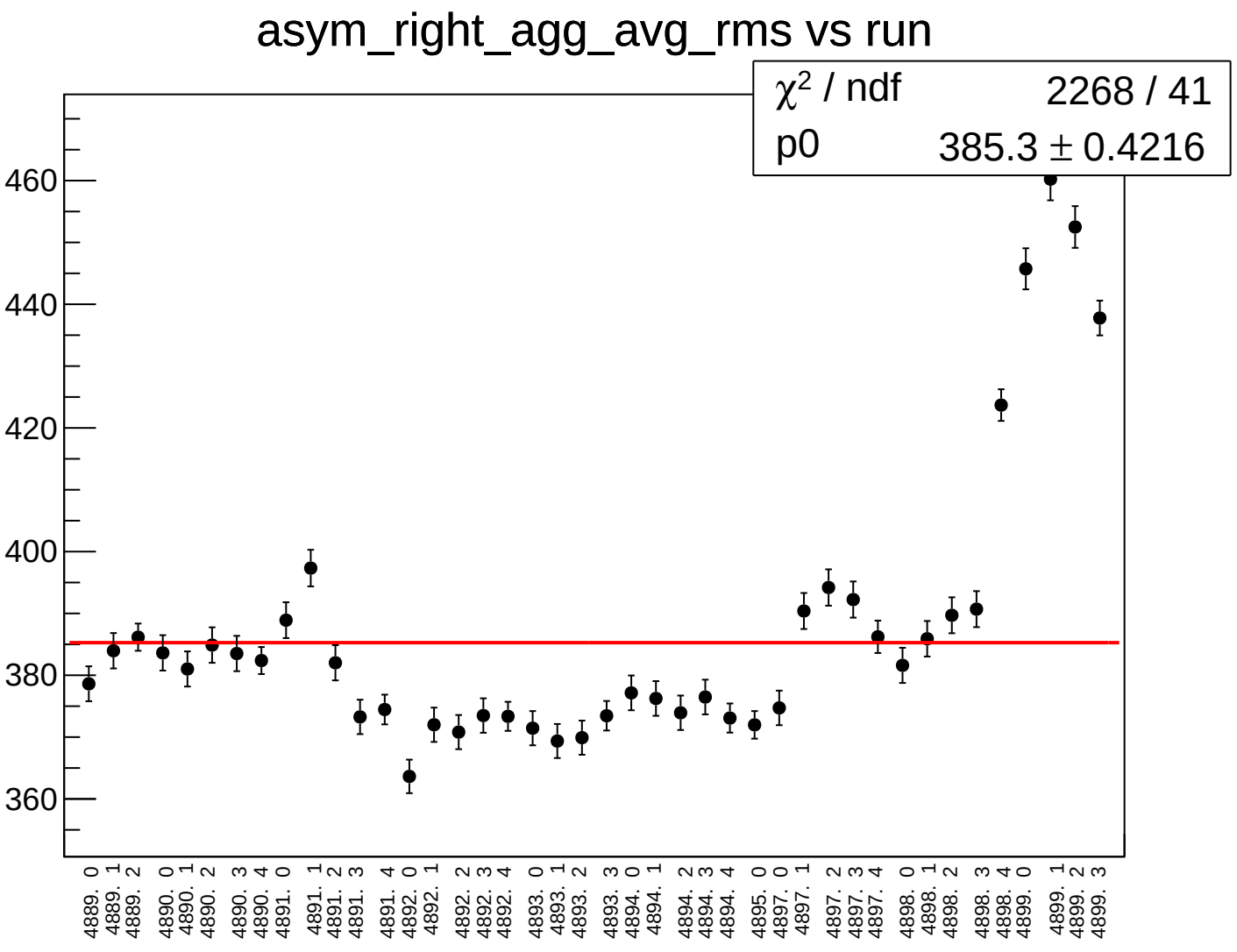

asym_left_agg_dd_mean vs run
χ² / ndf 34.91 / 41
p0 −49.22 ± 41.37
800
600
400
200
0
−200
−400
−600
−800
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 205
Std Dev 178.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

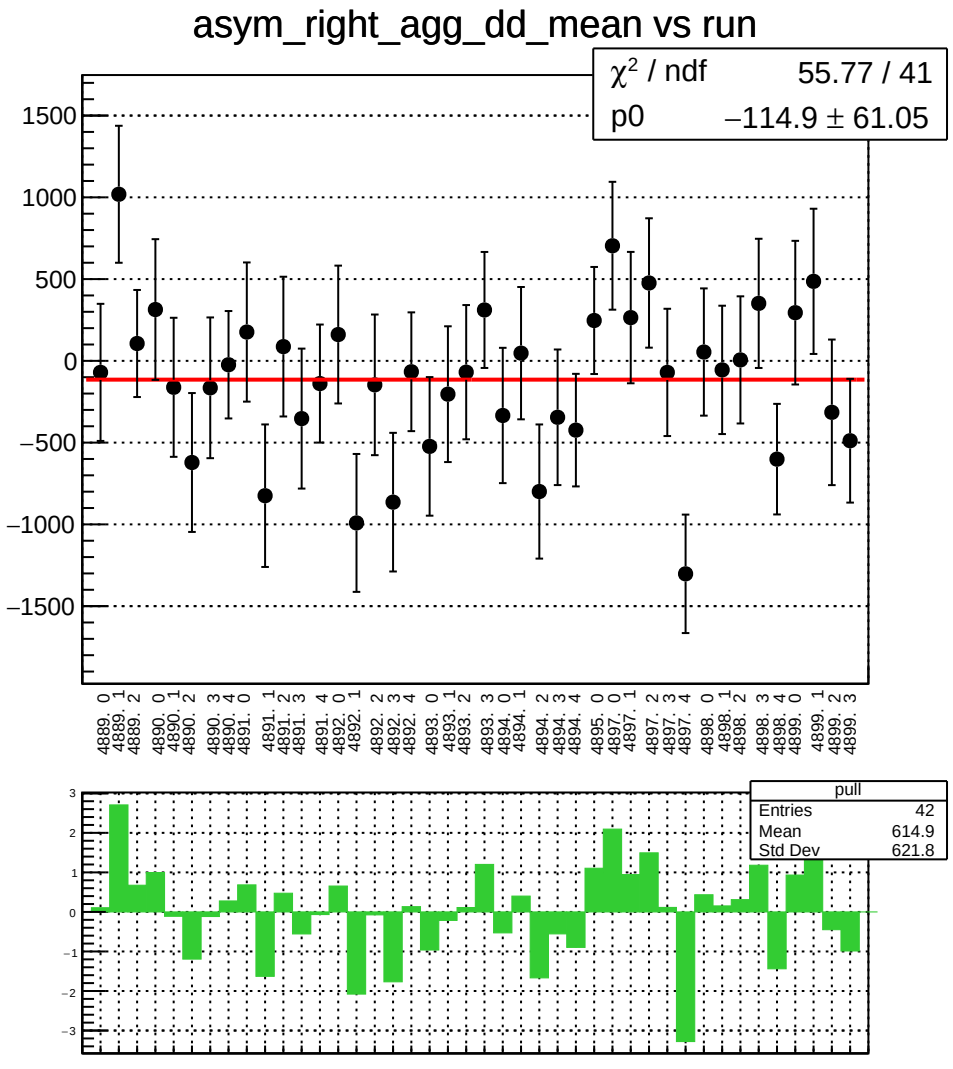

pull1D
Entries 42
Mean 0.0101
Std Dev 0.9117
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

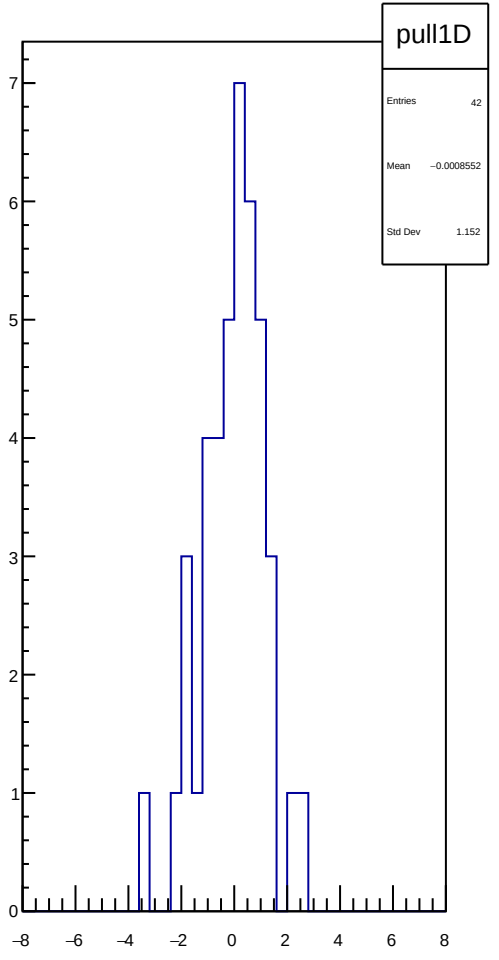

asym_left_agg_dd_rms vs run
χ² / ndf 376.4 / 41
p0 26.77 ± 0.02925
29
28.5
28
27.5
27
26.5
26
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

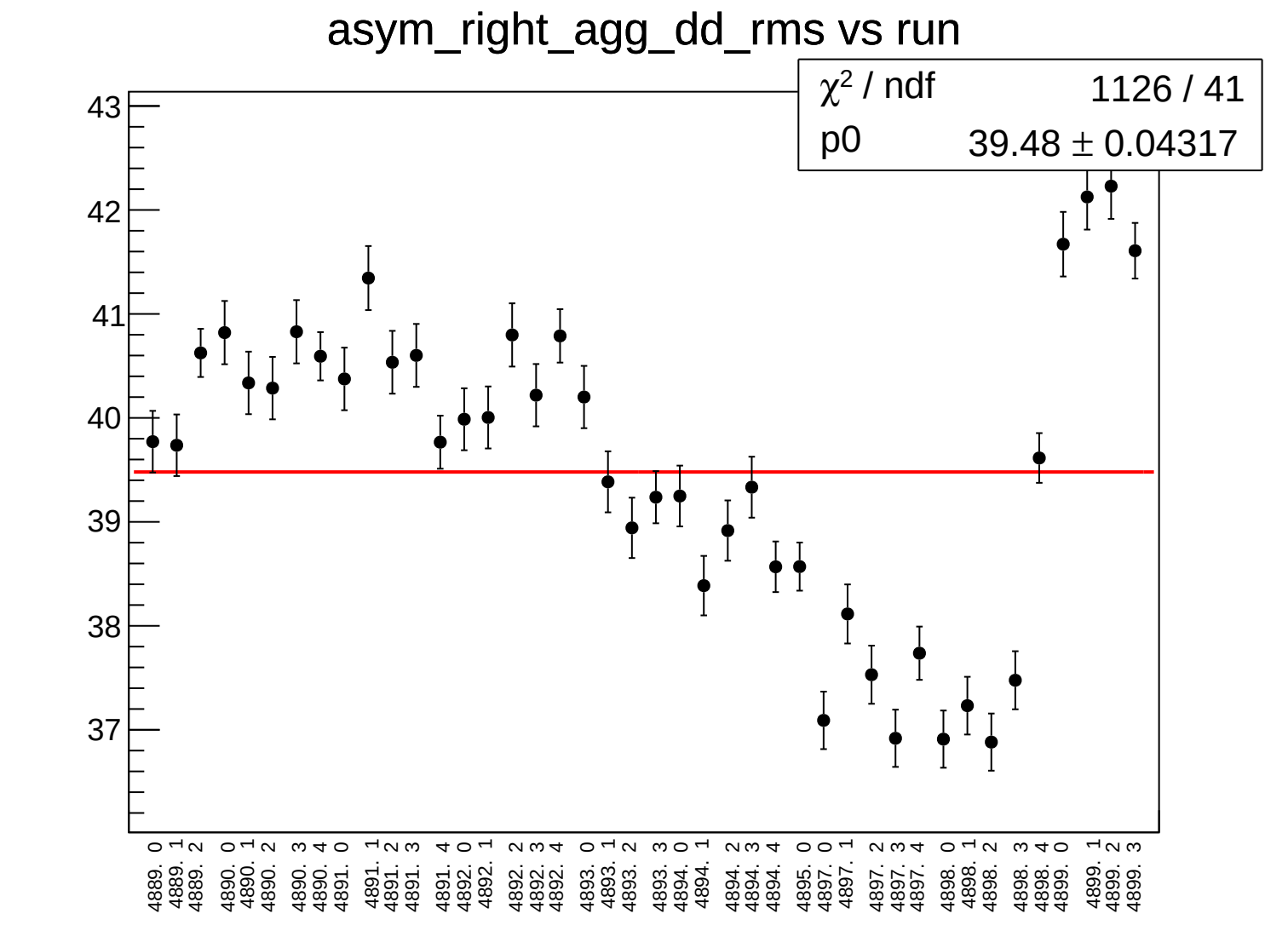

asym_right_agg_avg_mean vs run
χ² / ndf 31.64 / 41
p0 1074 ± 596.2
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 152.5
Std Dev 129.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

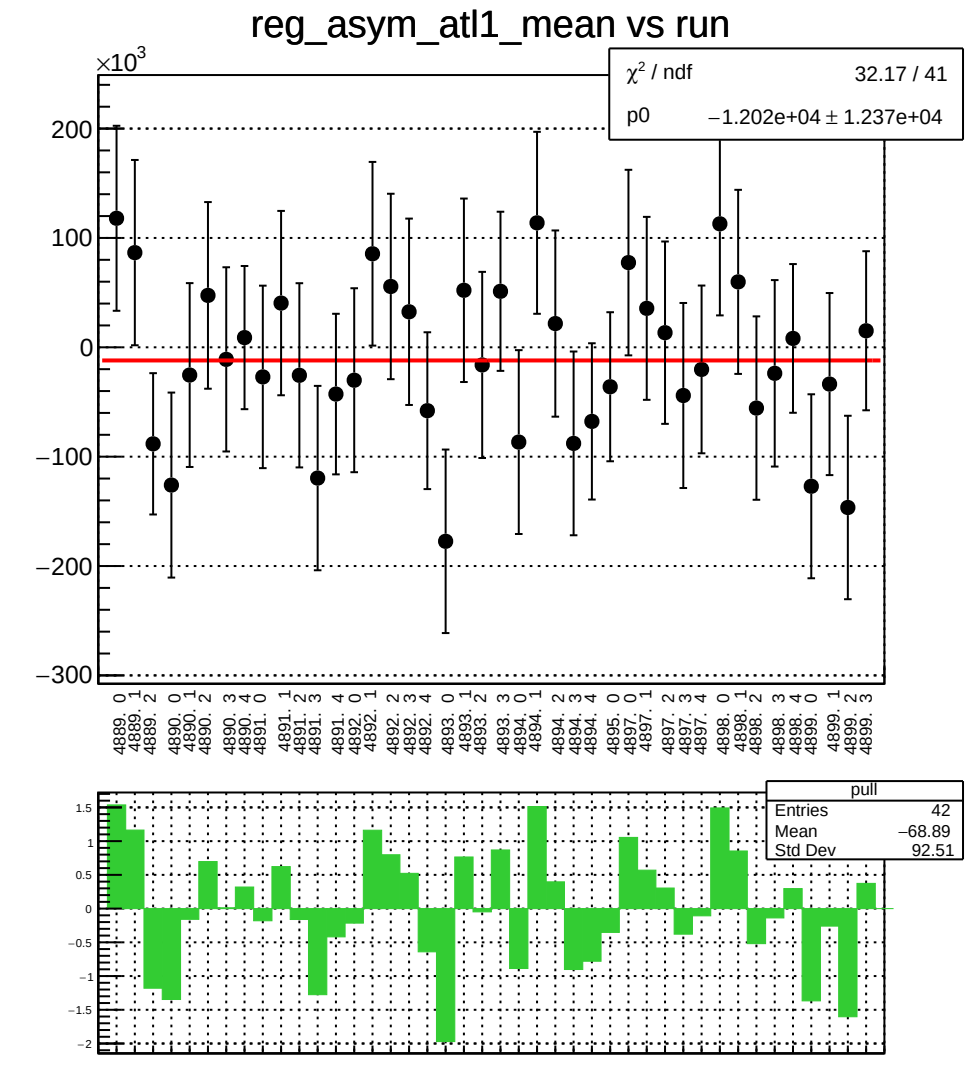

pull1D
Entries 42
Mean 0.01854
Std Dev 0.8678
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

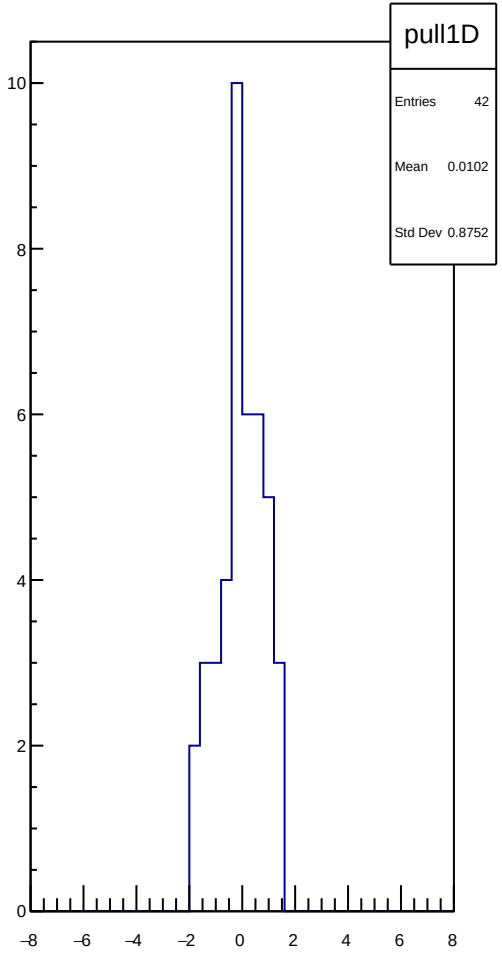

asym_right_agg_avg_rms vs run
χ² / ndf 2268 / 41
p0 385.3 ± 0.4216
460
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

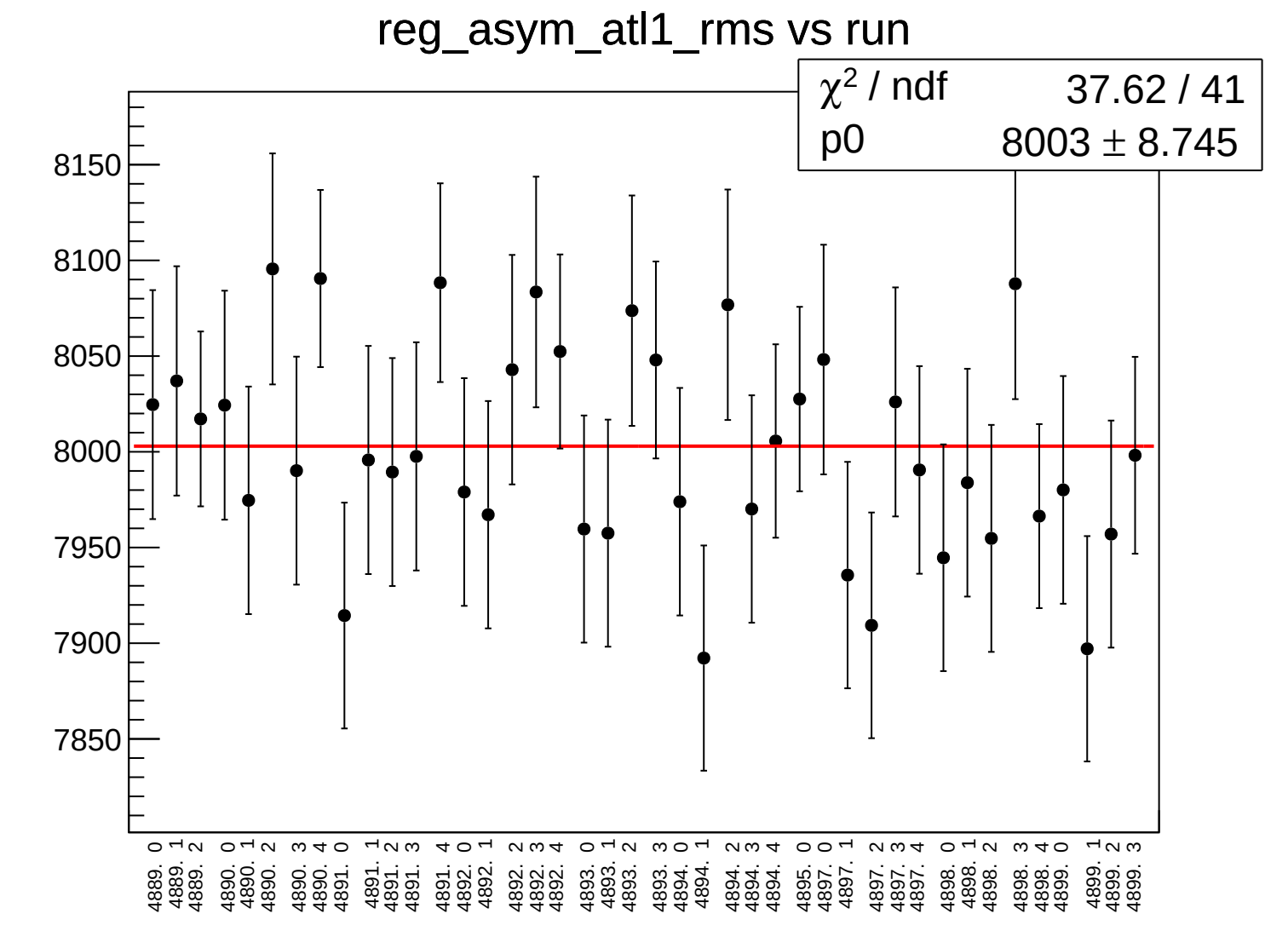

asym_right_agg_dd_mean vs run
χ² / ndf 55.77 / 41
p0 −114.9 ± 61.05
1500
1000
500
0
−500
−1000
−1500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 614.9
Std Dev 621.8
3
2
1
0
−1
−2
−3

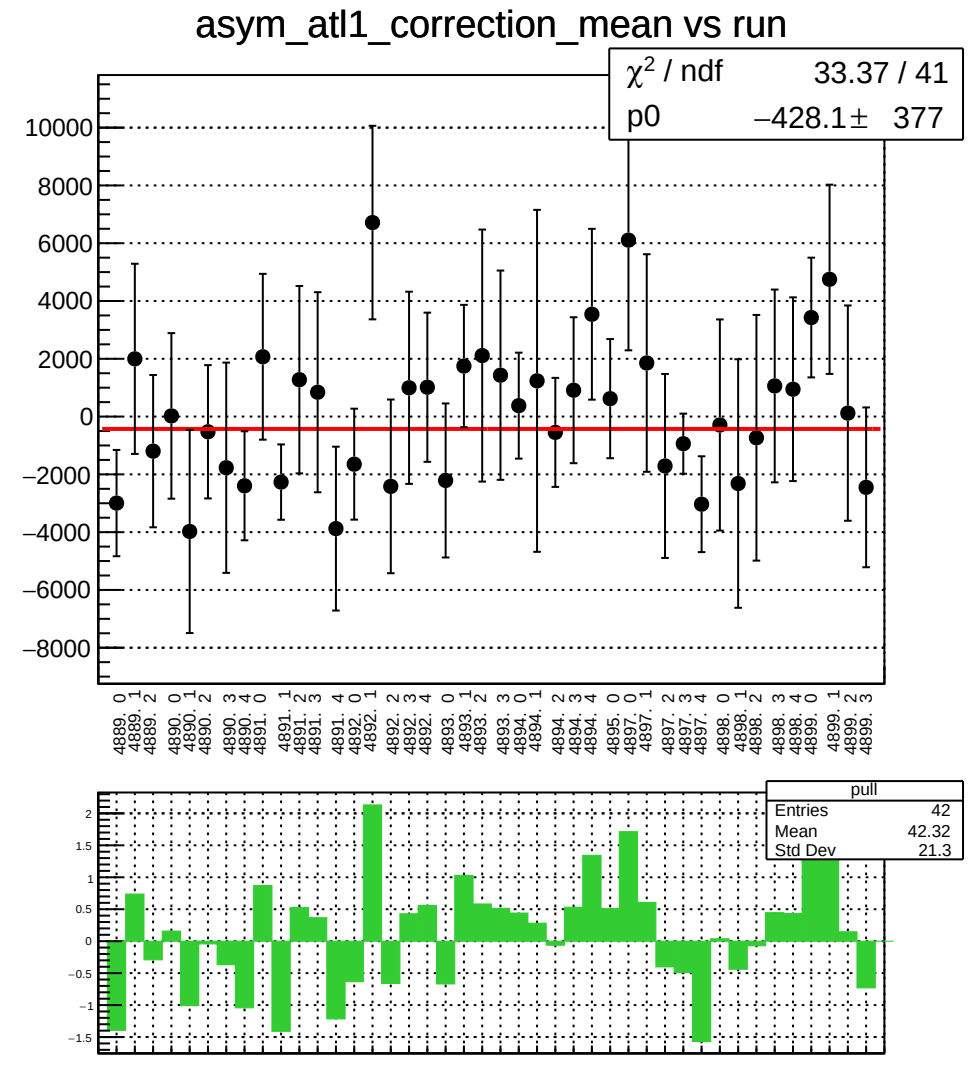

pull1D
Entries 42
Mean −0.0008552
Std Dev 1.152
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

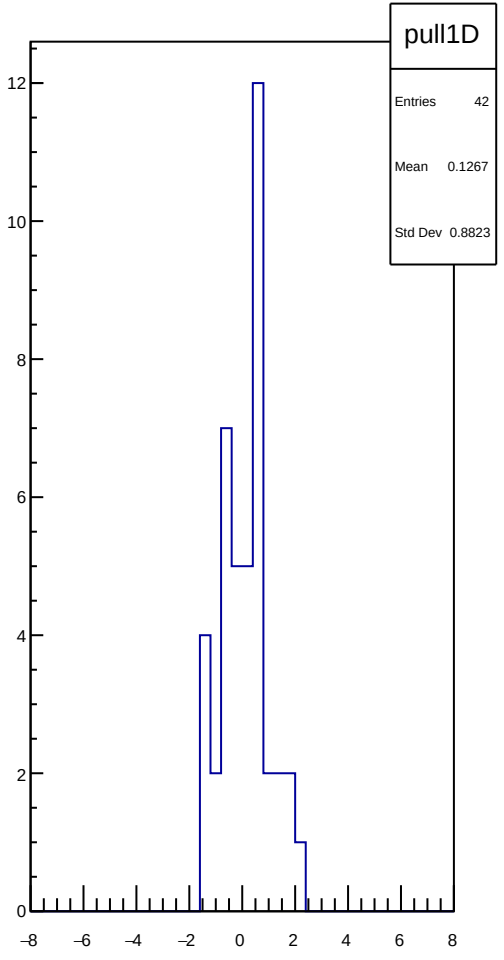

asym_right_agg_dd_rms vs run
χ² / ndf 1126 / 41
p0 39.48 ± 0.04317
43
42
41
40
39
38
37
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

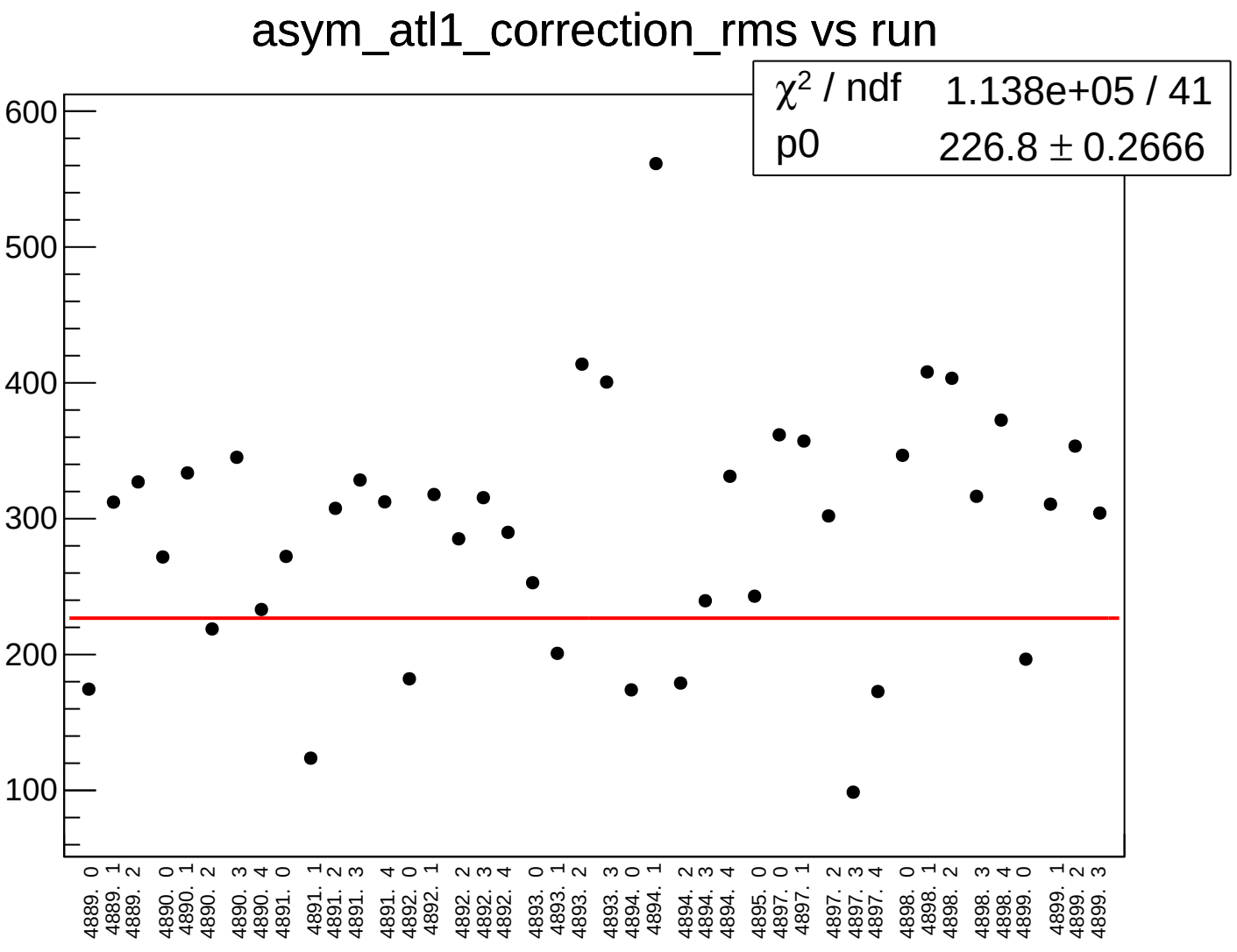

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 32.17 / 41
p0 −1.202e+04 ± 1.237e+04
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −68.89
Std Dev 92.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2

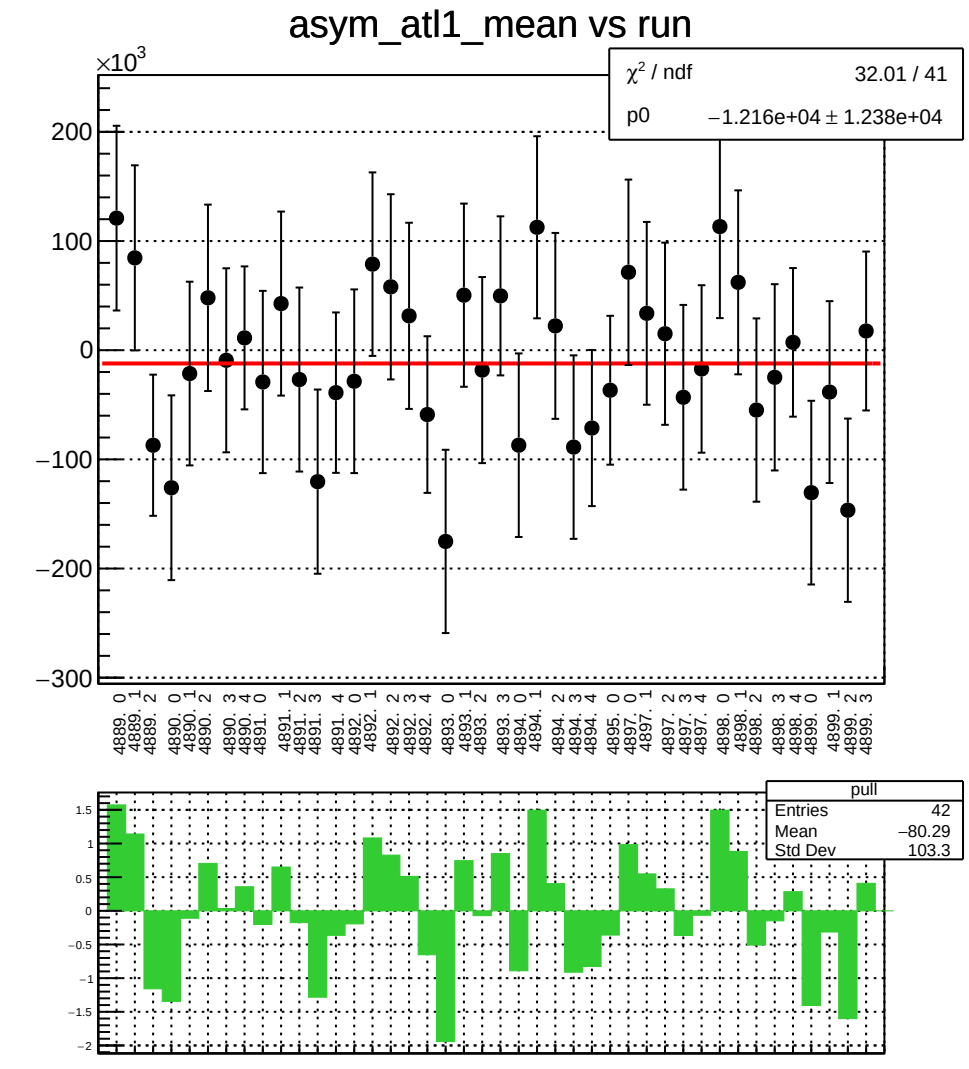

pull1D
Entries 42
Mean 0.0102
Std Dev 0.8752
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

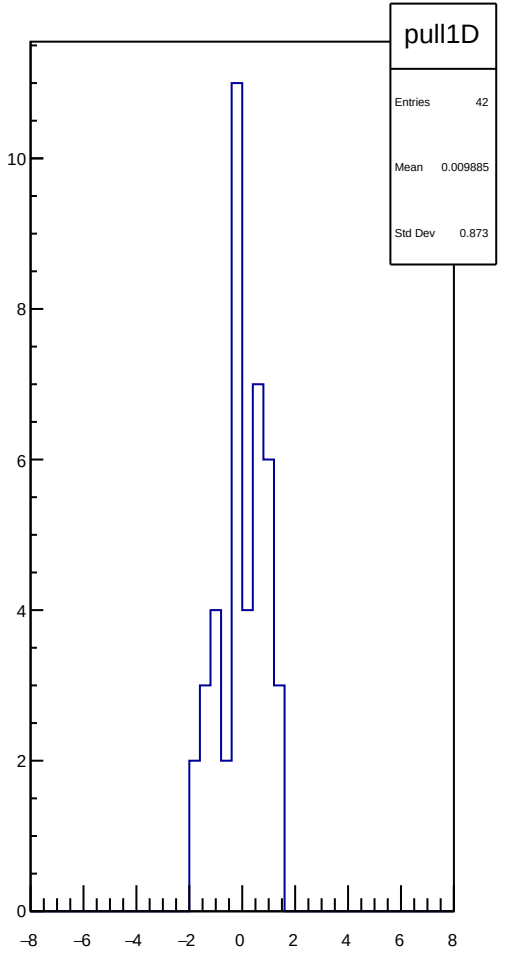

reg_asym_atl1_rms vs run
χ² / ndf 37.62 / 41
p0 8003 ± 8.745
8150
8100
8050
8000
7950
7900
7850
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

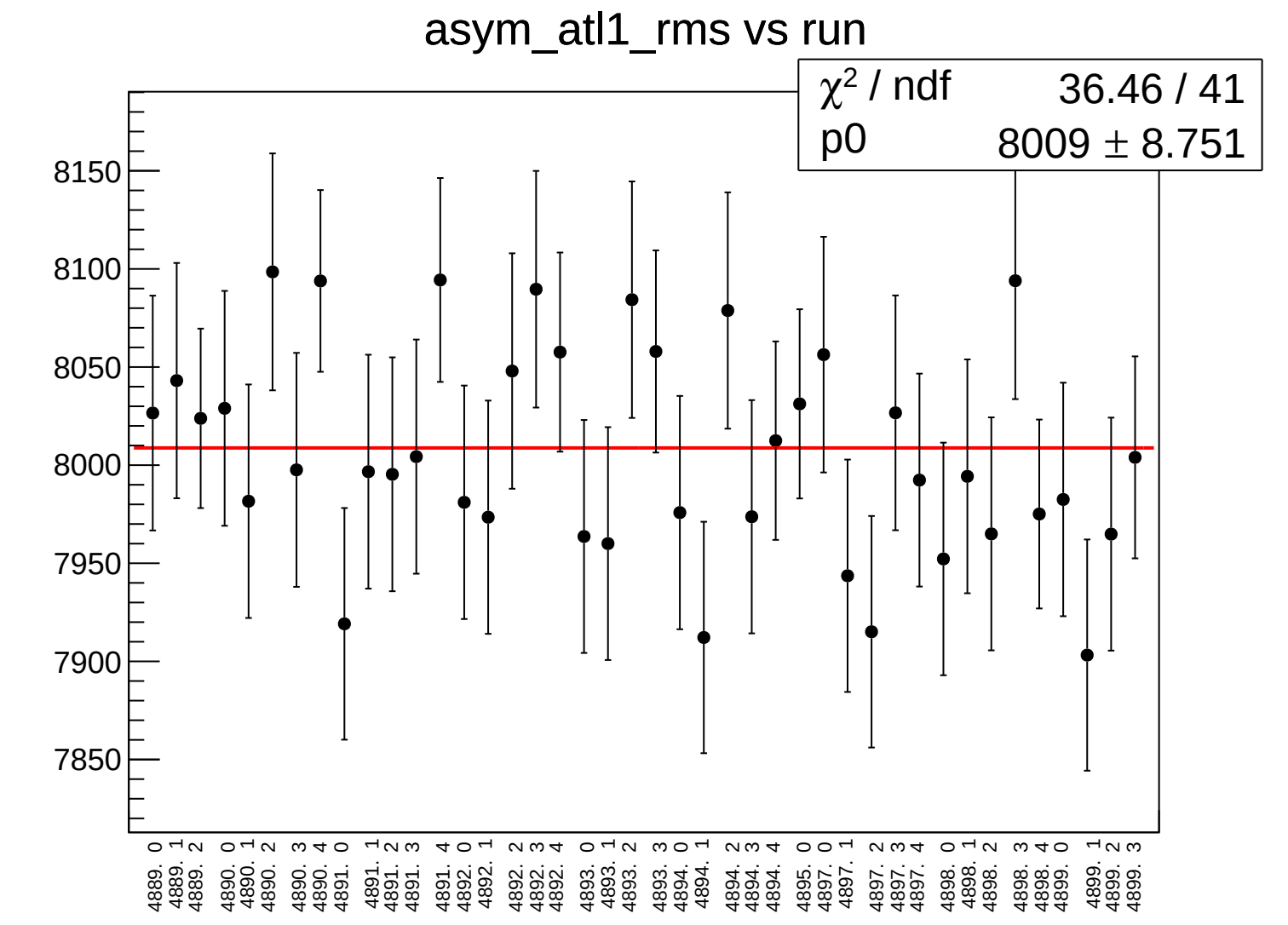

asym_atl1_correction_mean vs run
χ² / ndf 33.37 / 41
p0 −428.1± 377
pull
Entries 42
Mean 42.32
Std Dev 21.3

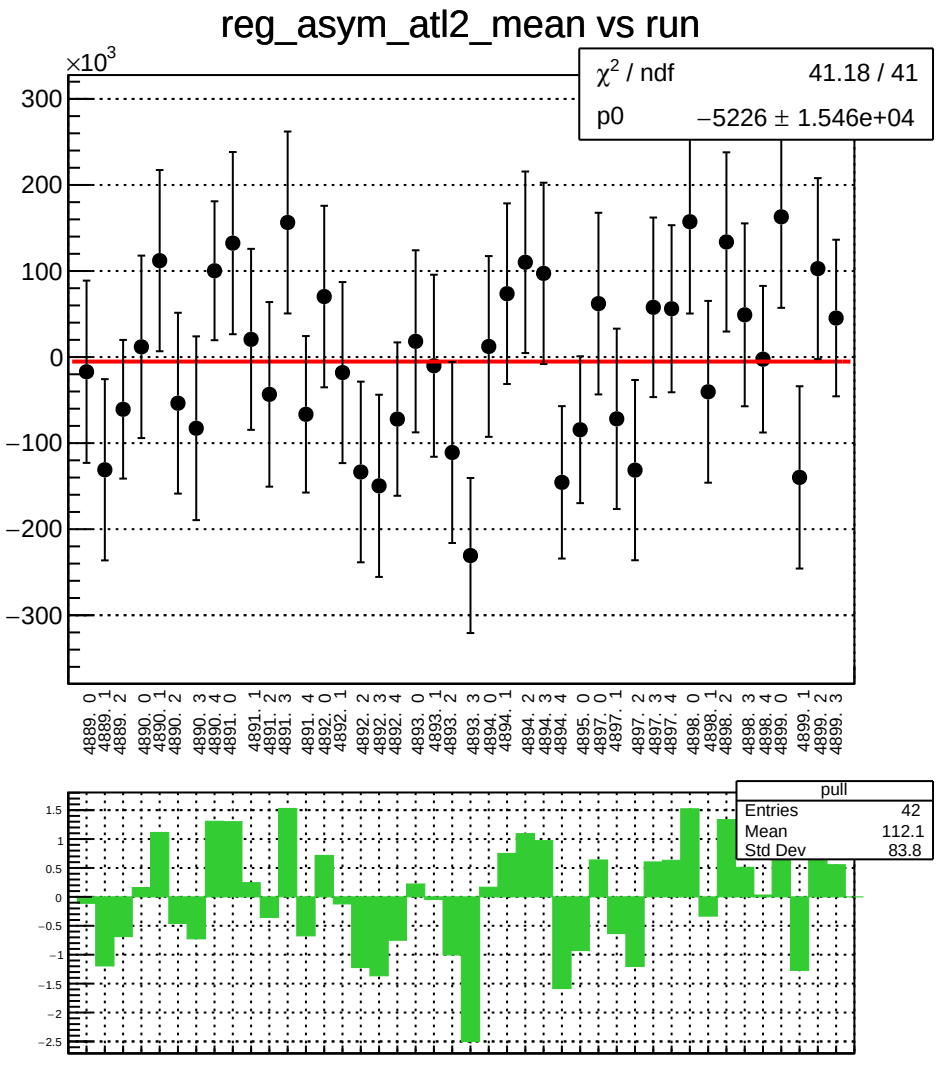

pull1D
Entries 42
Mean 0.1267
Std Dev 0.8823

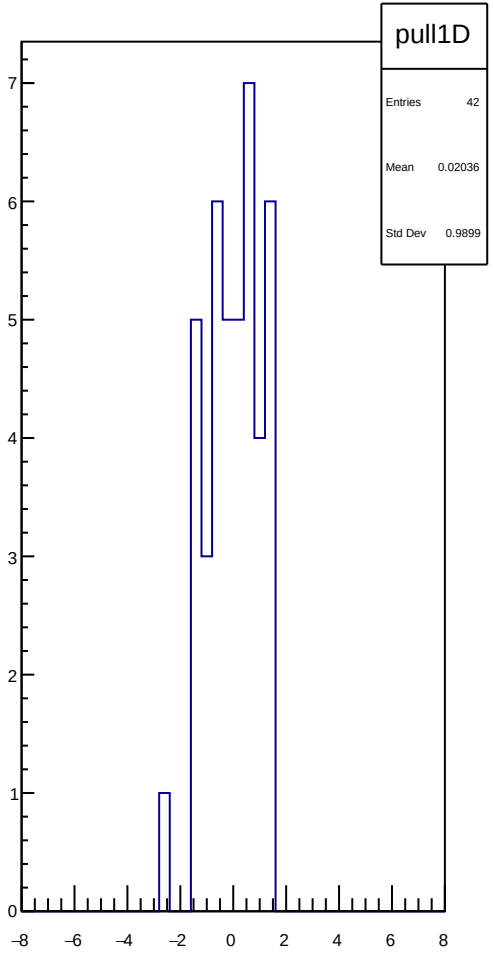

asym_atl1_correction_rms vs run
χ² / ndf 1.138e+05 / 41
p0 226.8 ± 0.2666
600
500
400
300
200
100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

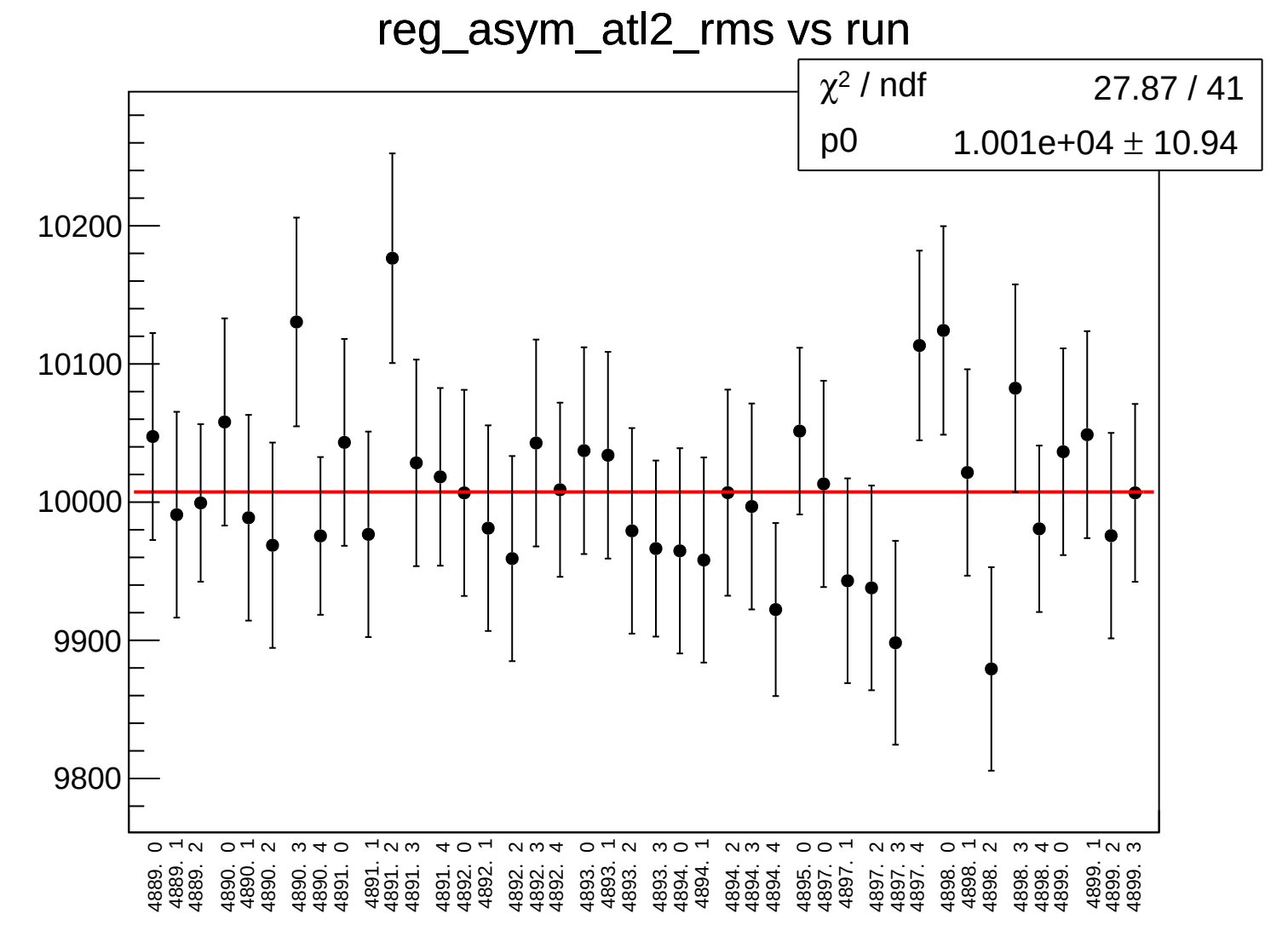

asym_atl1_mean vs run
×10^3
χ² / ndf 32.01 / 41
p0 −1.216e+04 ± 1.238e+04
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −80.29
Std Dev 103.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

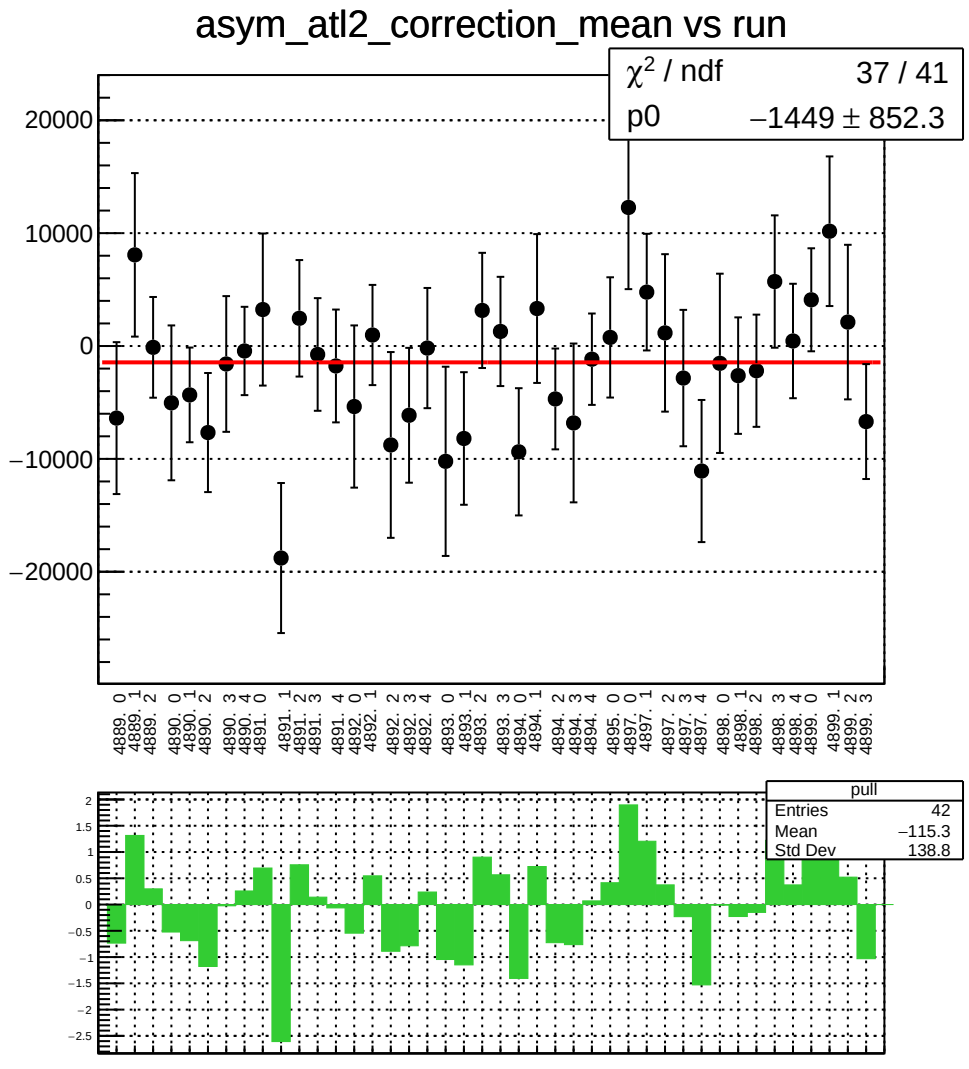

pull1D
Entries 42
Mean 0.009885
Std Dev 0.873
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

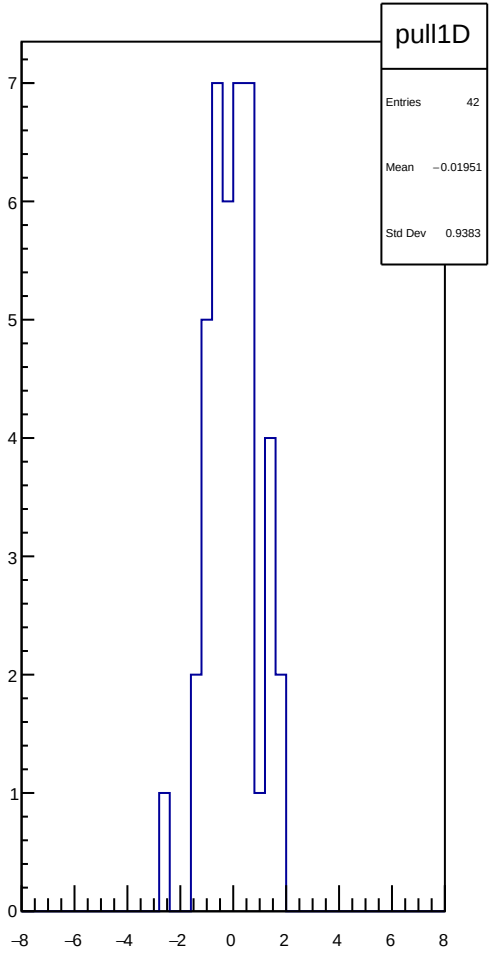

asym_atl1_rms vs run
χ² / ndf 36.46 / 41
p0 8009 ± 8.751
8150
8100
8050
8000
7950
7900
7850
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

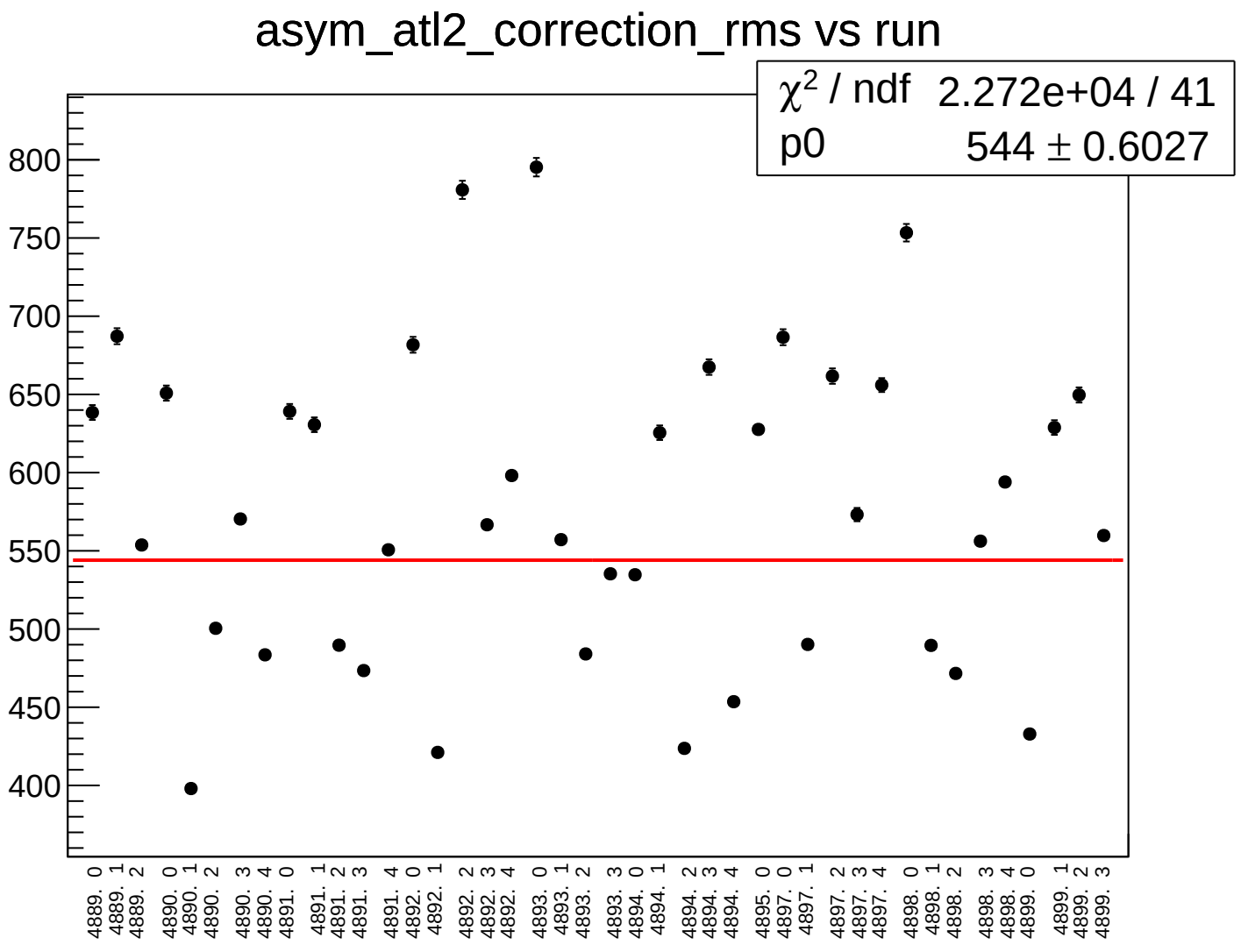

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 41.18 / 41
p0 −5226 ± 1.546e+04
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 112.1
Std Dev 83.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

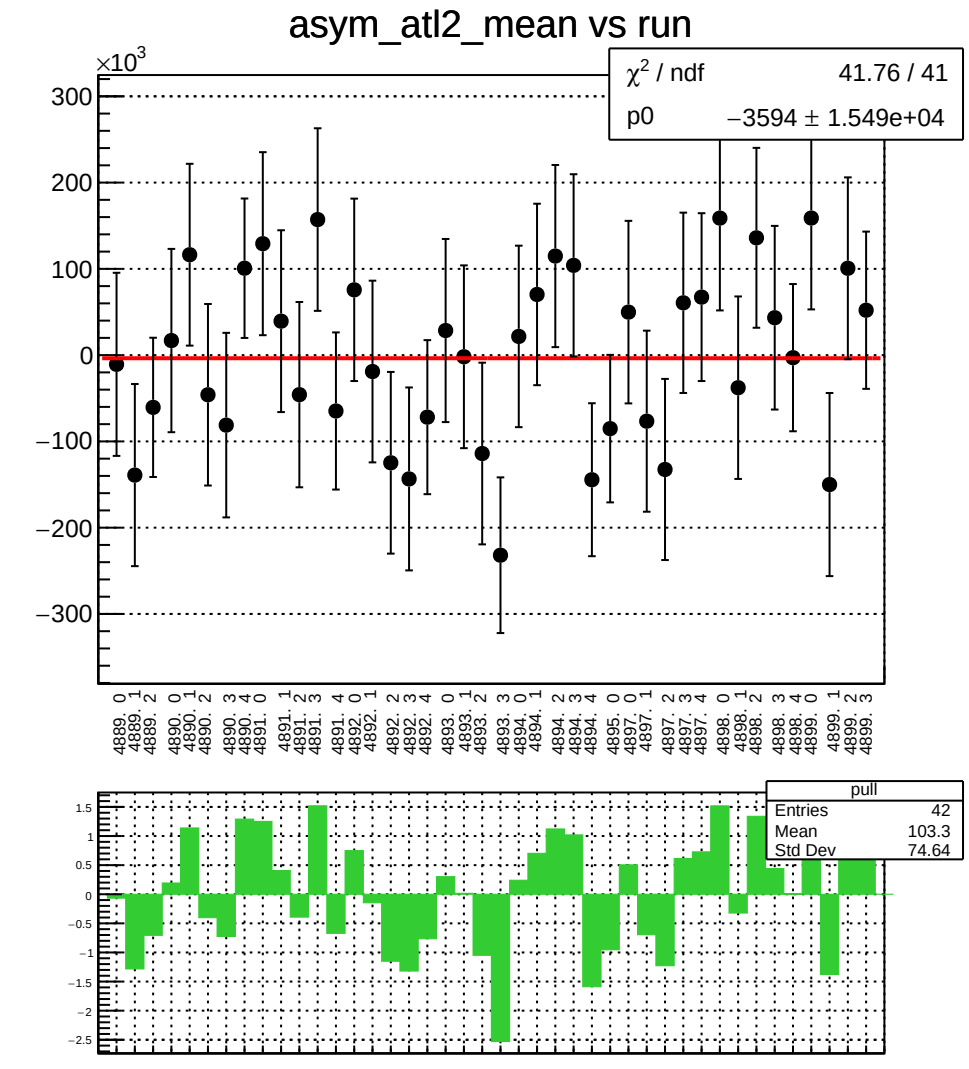

pull1D
Entries 42
Mean 0.02036
Std Dev 0.9899
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

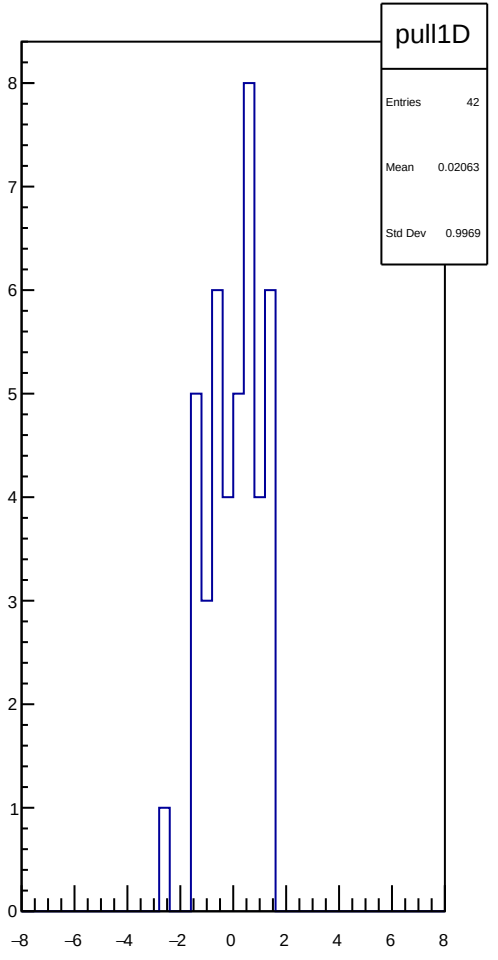

reg_asym_atl2_rms vs run
χ² / ndf 27.87 / 41
p0 1.001e+04 ± 10.94
10200
10100
10000
9900
9800
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

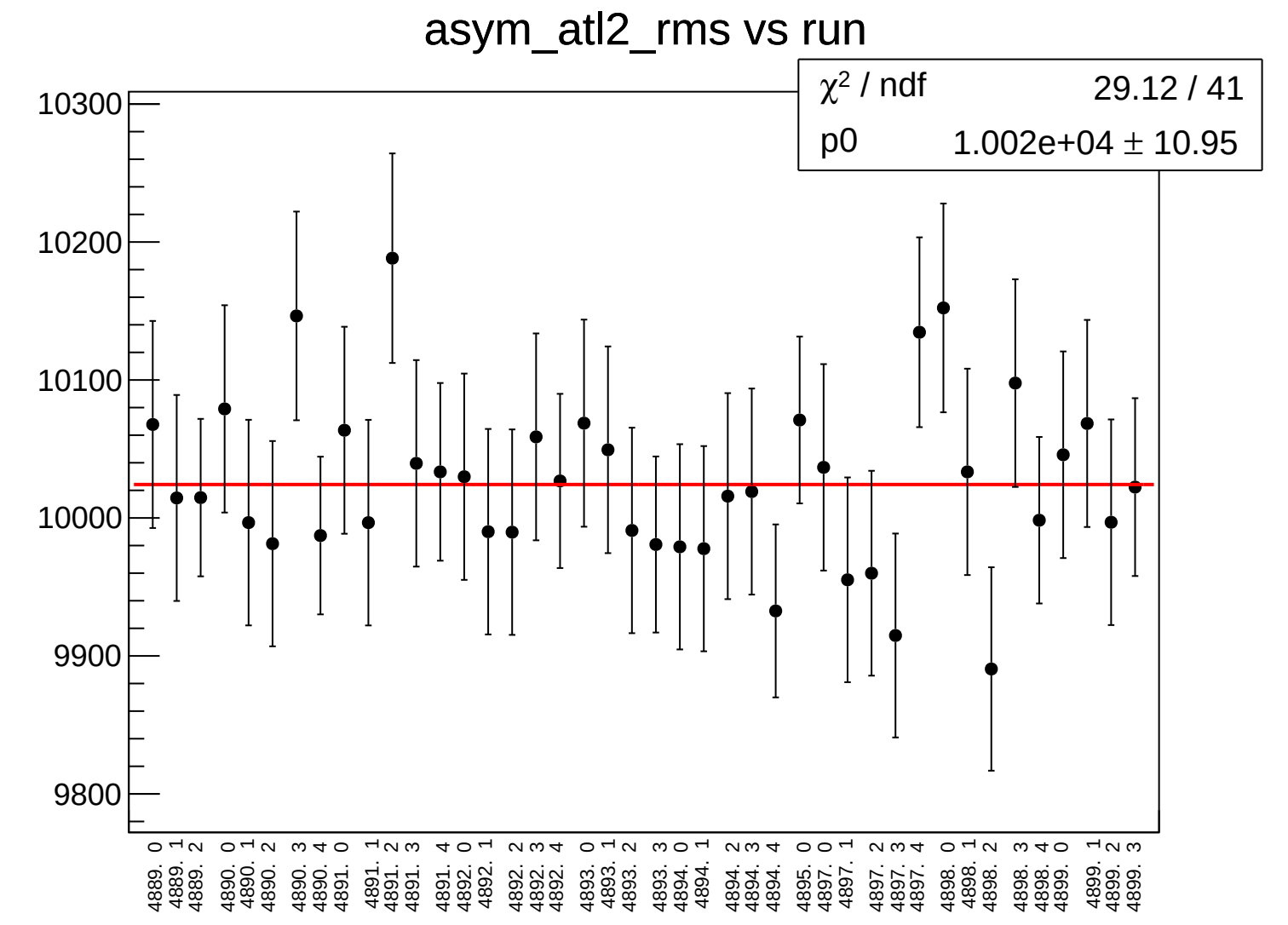

asym_atl2_correction_mean vs run
χ² / ndf 37 / 41
p0 −1449 ± 852.3
20000
10000
0
−10000
−20000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −115.3
Std Dev 138.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

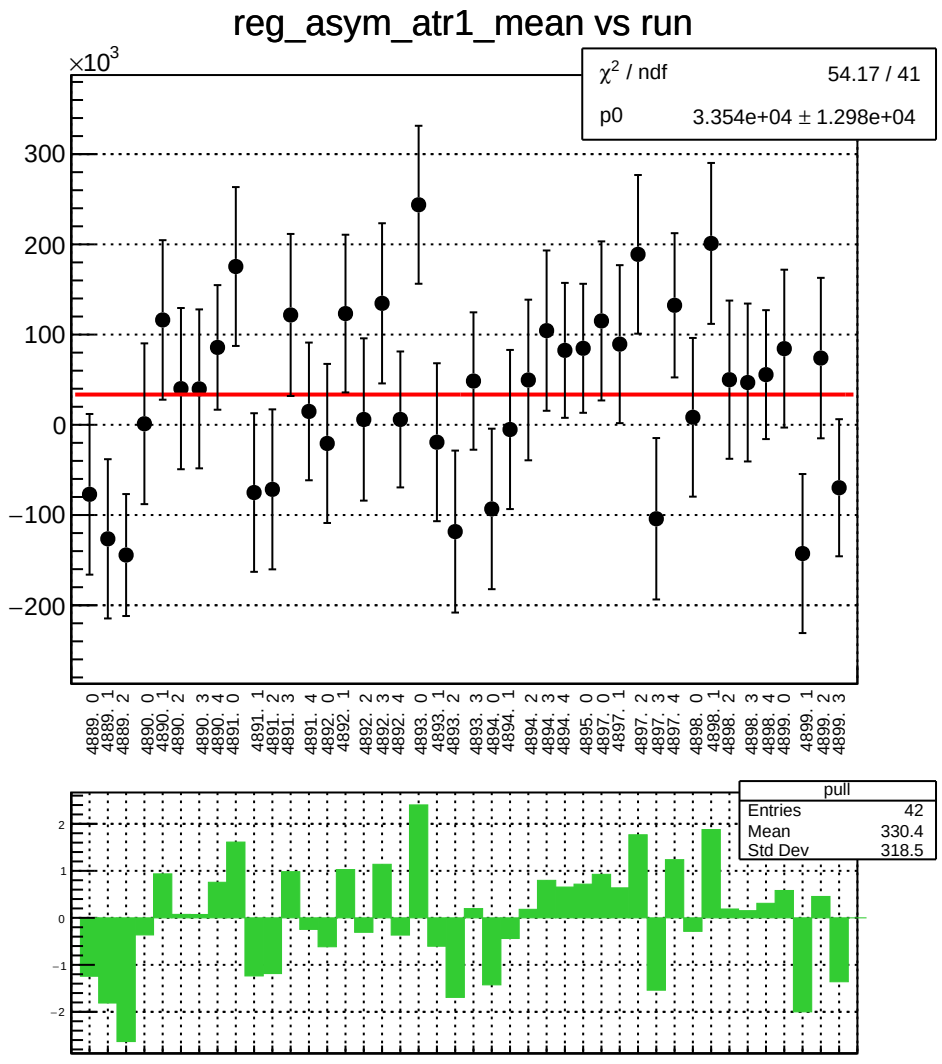

pull1D
Entries 42
Mean −0.01951
Std Dev 0.9383
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

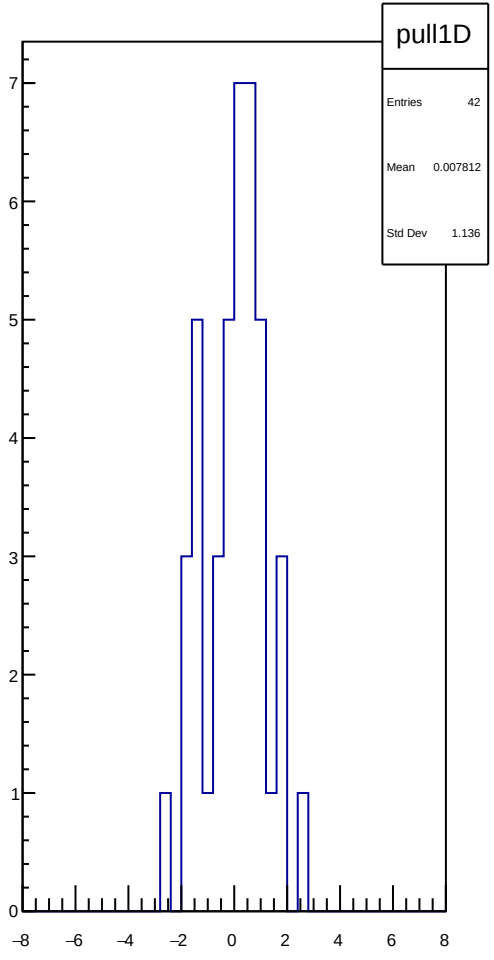

asym_atl2_correction_rms vs run
χ² / ndf 2.272e+04 / 41
p0 544 ± 0.6027
800
750
700
650
600
550
500
450
400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

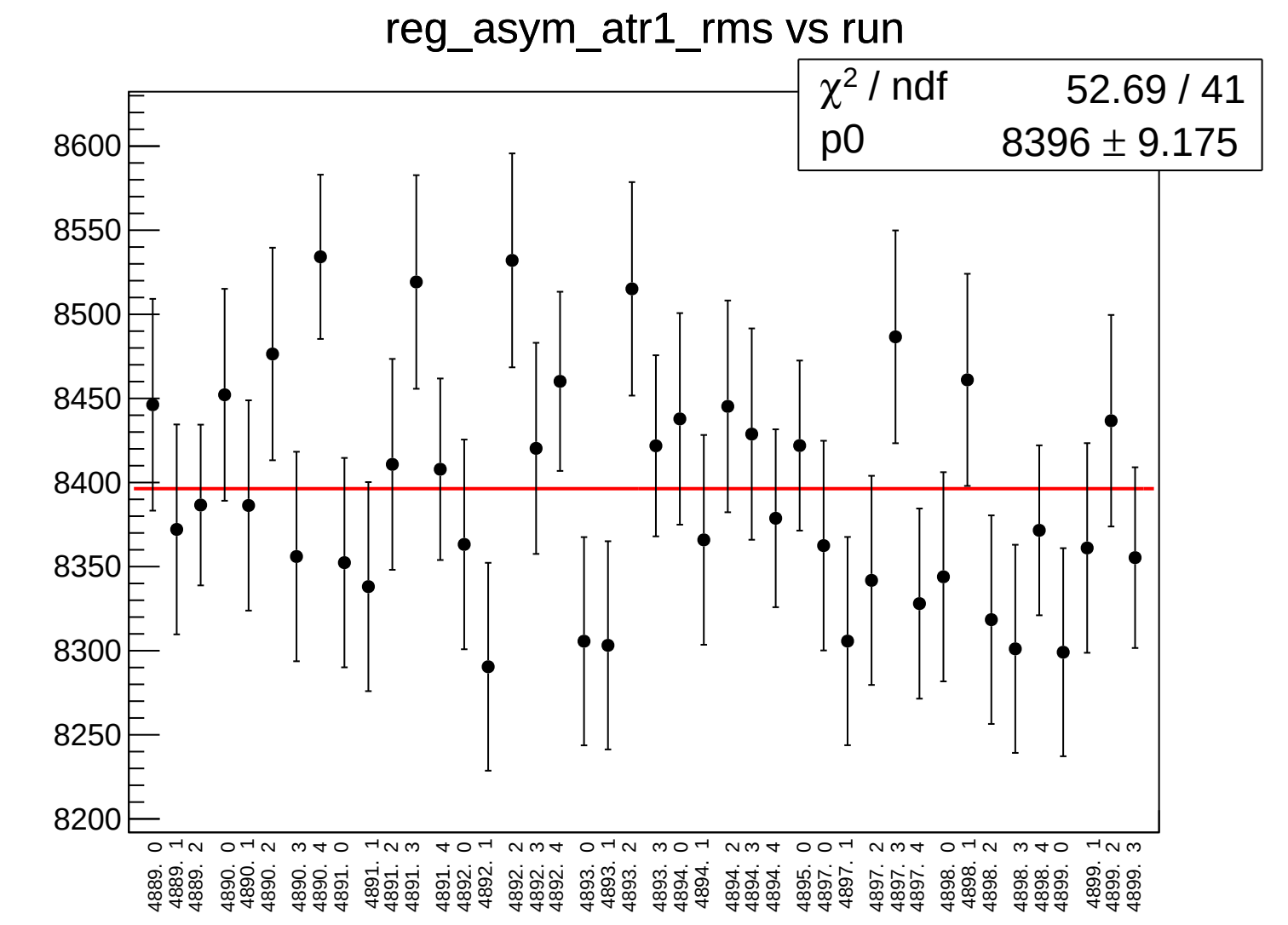

asym_atl2_mean vs run
×10^3
χ² / ndf 41.76 / 41
p0 −3594 ± 1.549e+04
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 103.3
Std Dev 74.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

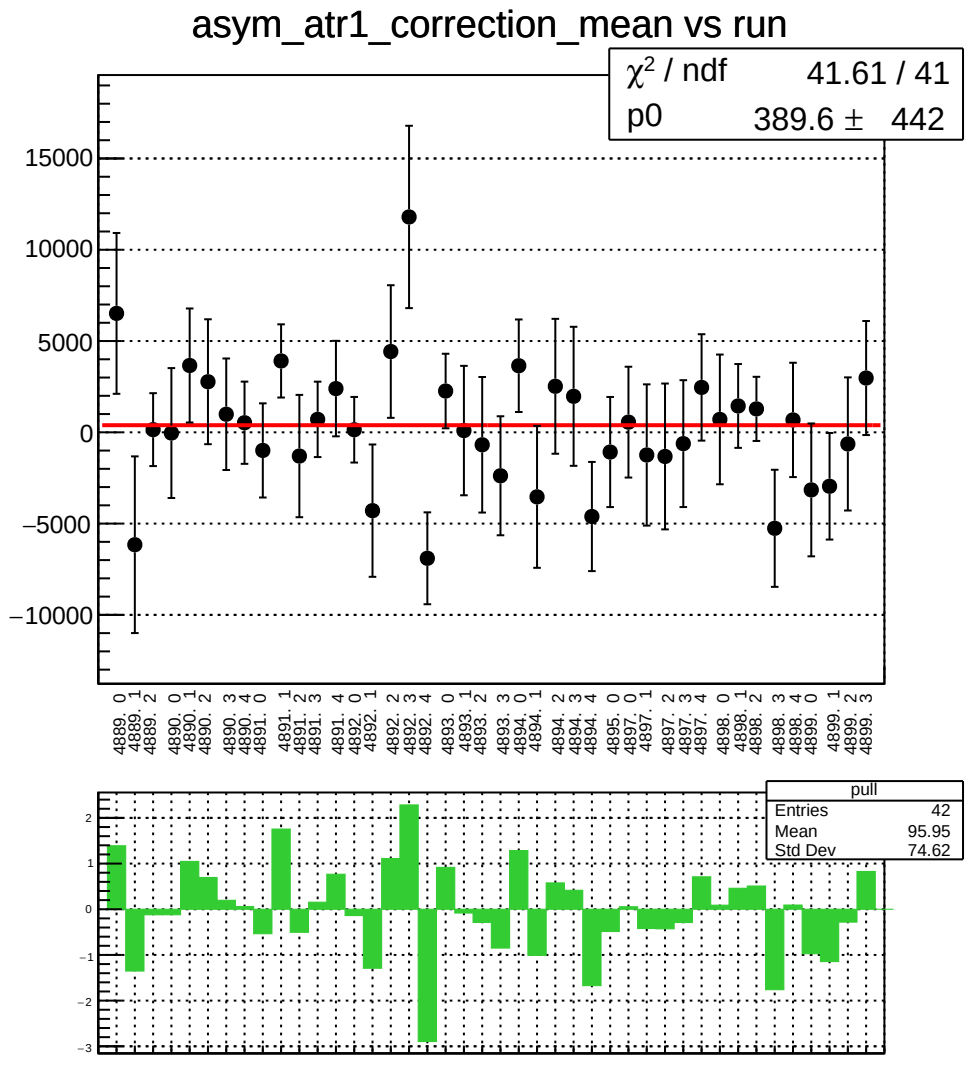

pull1D
Entries 42
Mean 0.02063
Std Dev 0.9969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

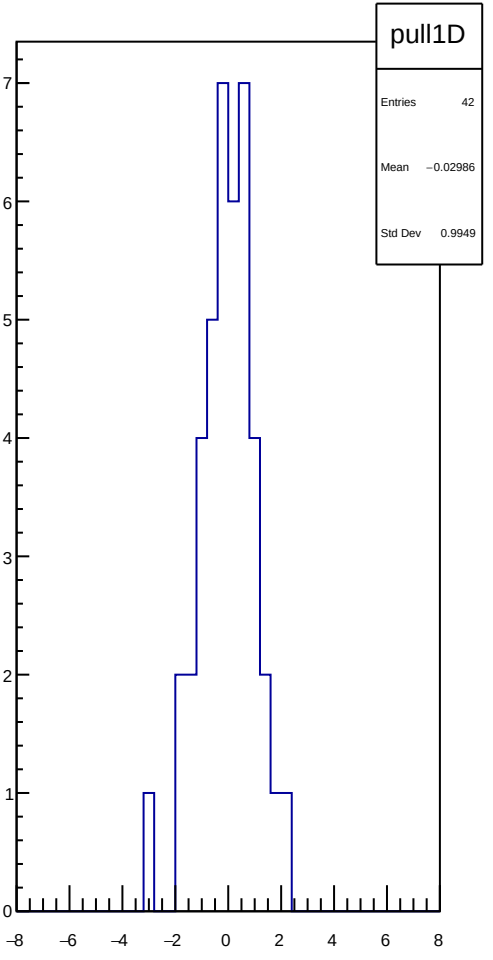

asym_atl2_rms vs run
χ² / ndf 29.12 / 41
p0 1.002e+04 ± 10.95
10300
10200
10100
10000
9900
9800
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

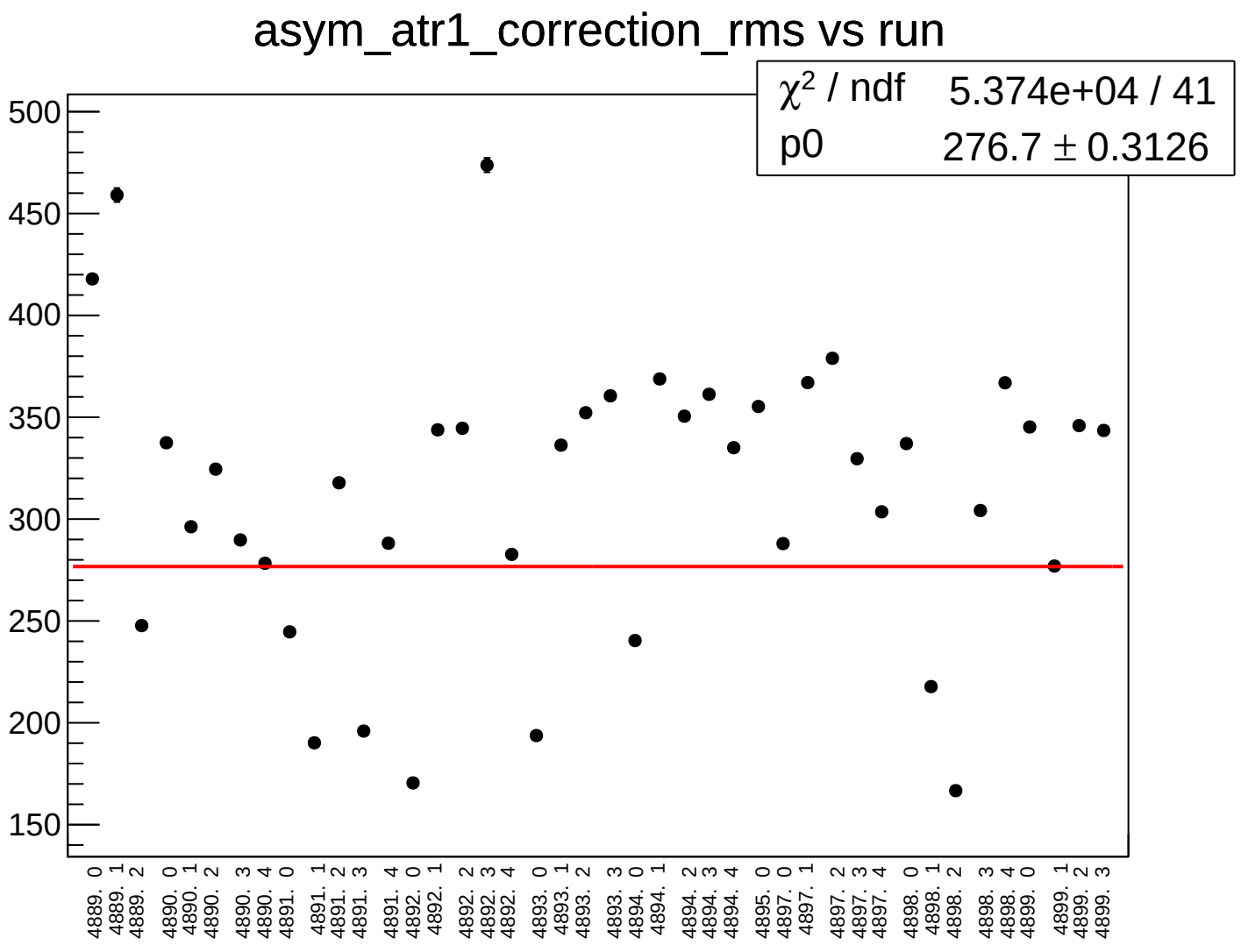

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 54.17 / 41
p0 3.354e+04 ± 1.298e+04
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 330.4
Std Dev 318.5
2
1
0
−1
−2

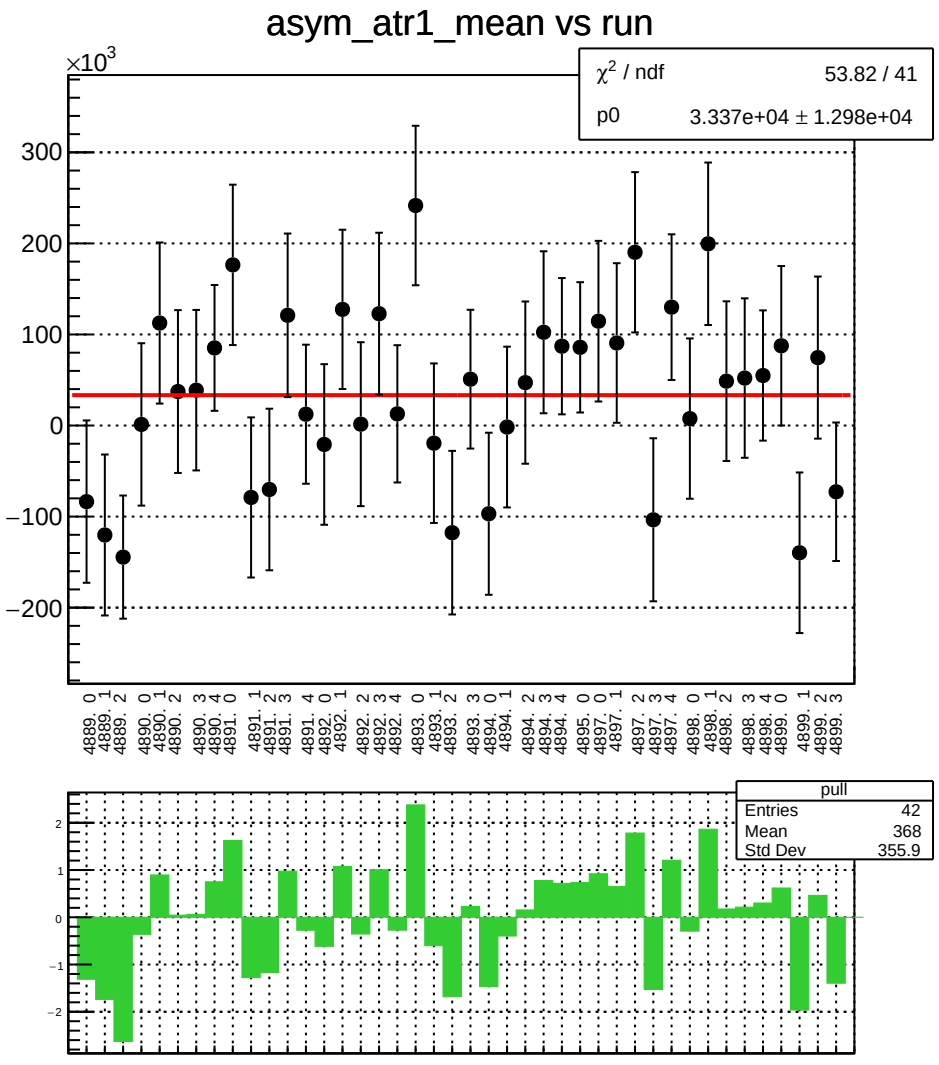

pull1D
Entries 42
Mean 0.007812
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

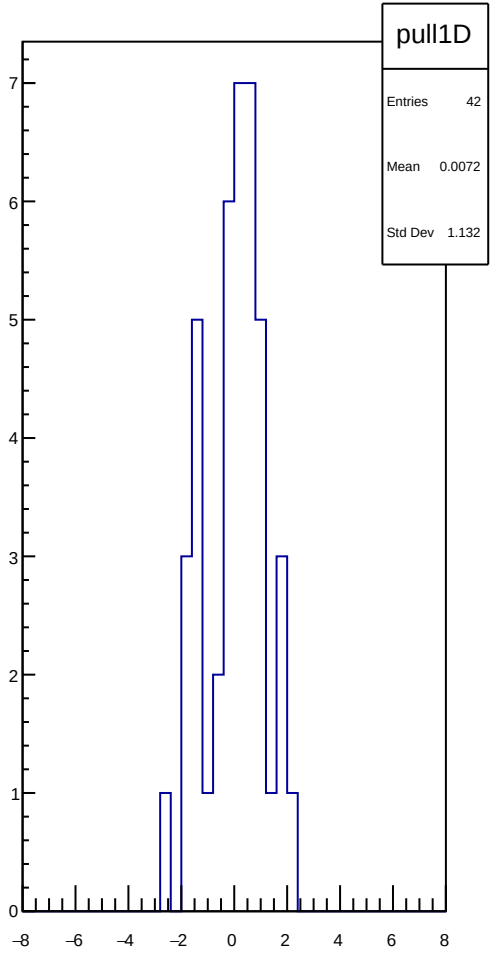

reg_asym_atr1_rms vs run
χ² / ndf 52.69 / 41
p0 8396 ± 9.175
8600
8550
8500
8450
8400
8350
8300
8250
8200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

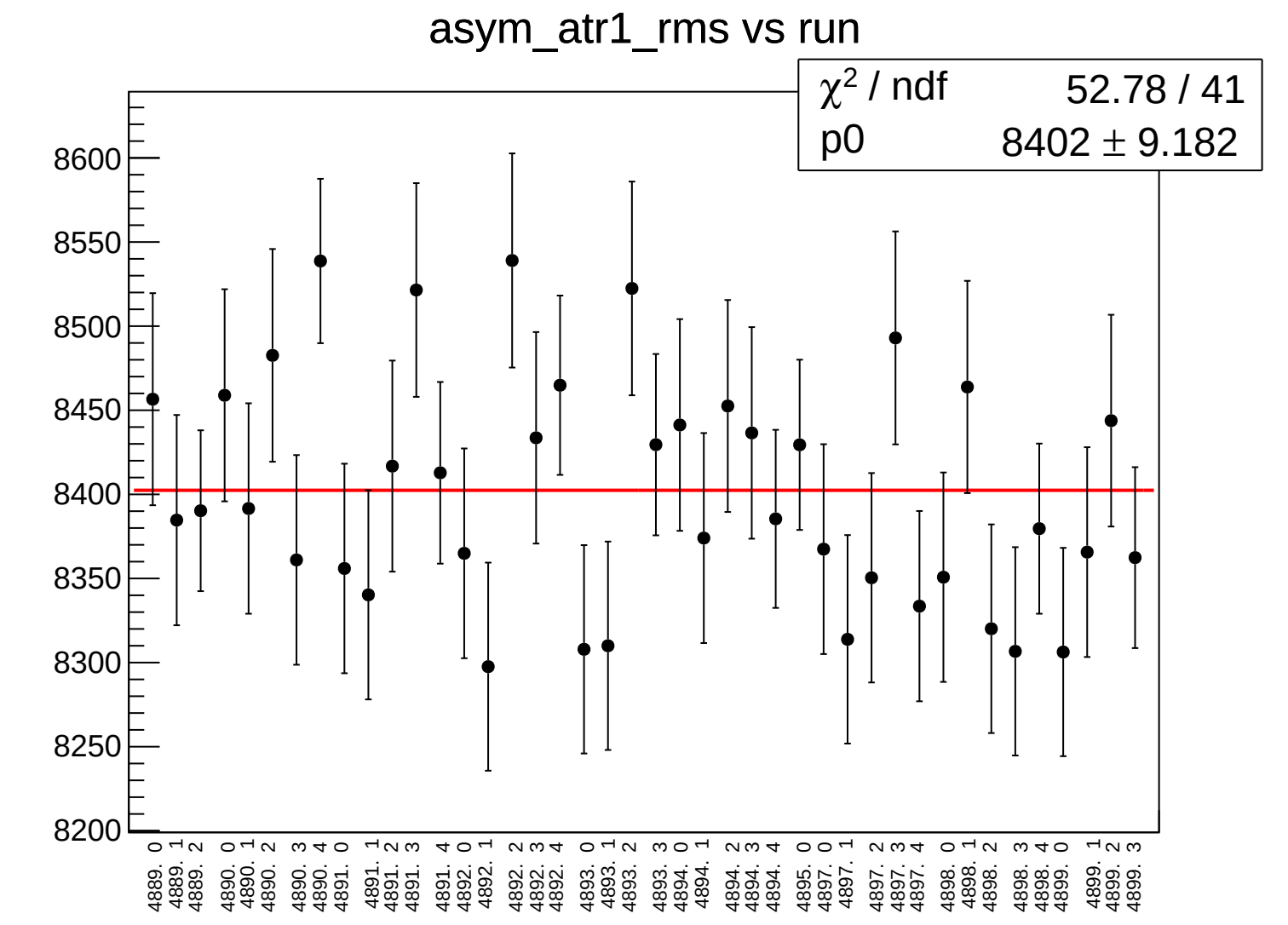

asym_atr1_correction_mean vs run
χ² / ndf 41.61 / 41
p0 389.6 ± 442
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 95.95
Std Dev 74.62
2
1
0
−1
−2
−3

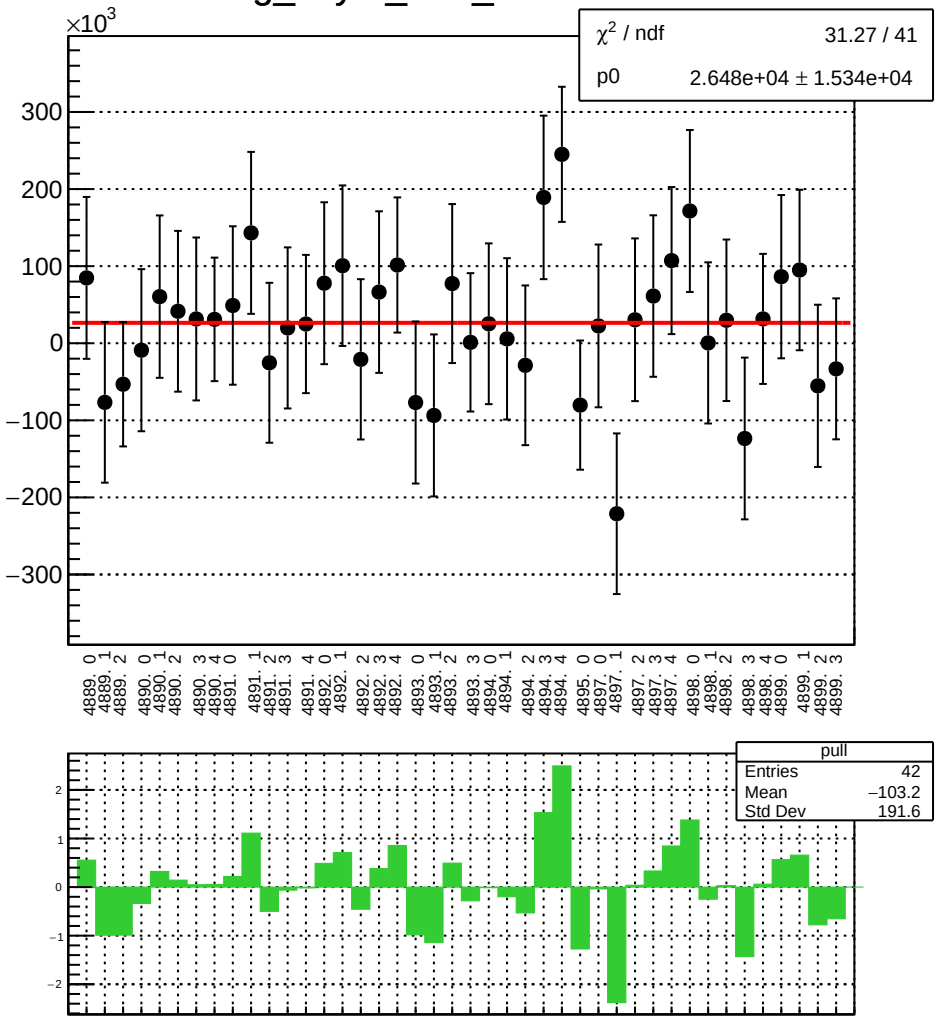

pull1D
Entries 42
Mean −0.02986
Std Dev 0.9949
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

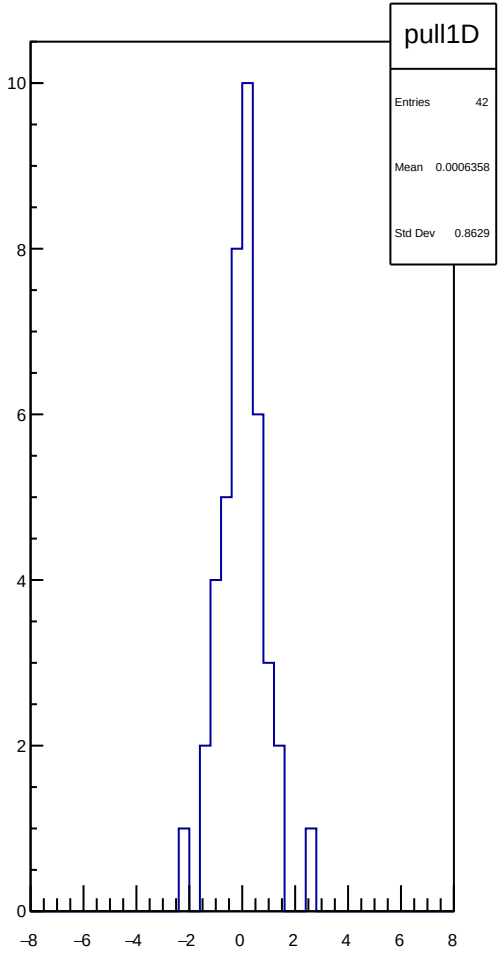

asym_atr1_correction_rms vs run
χ² / ndf 5.374e+04 / 41
p0 276.7 ± 0.3126
500
450
400
350
300
250
200
150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

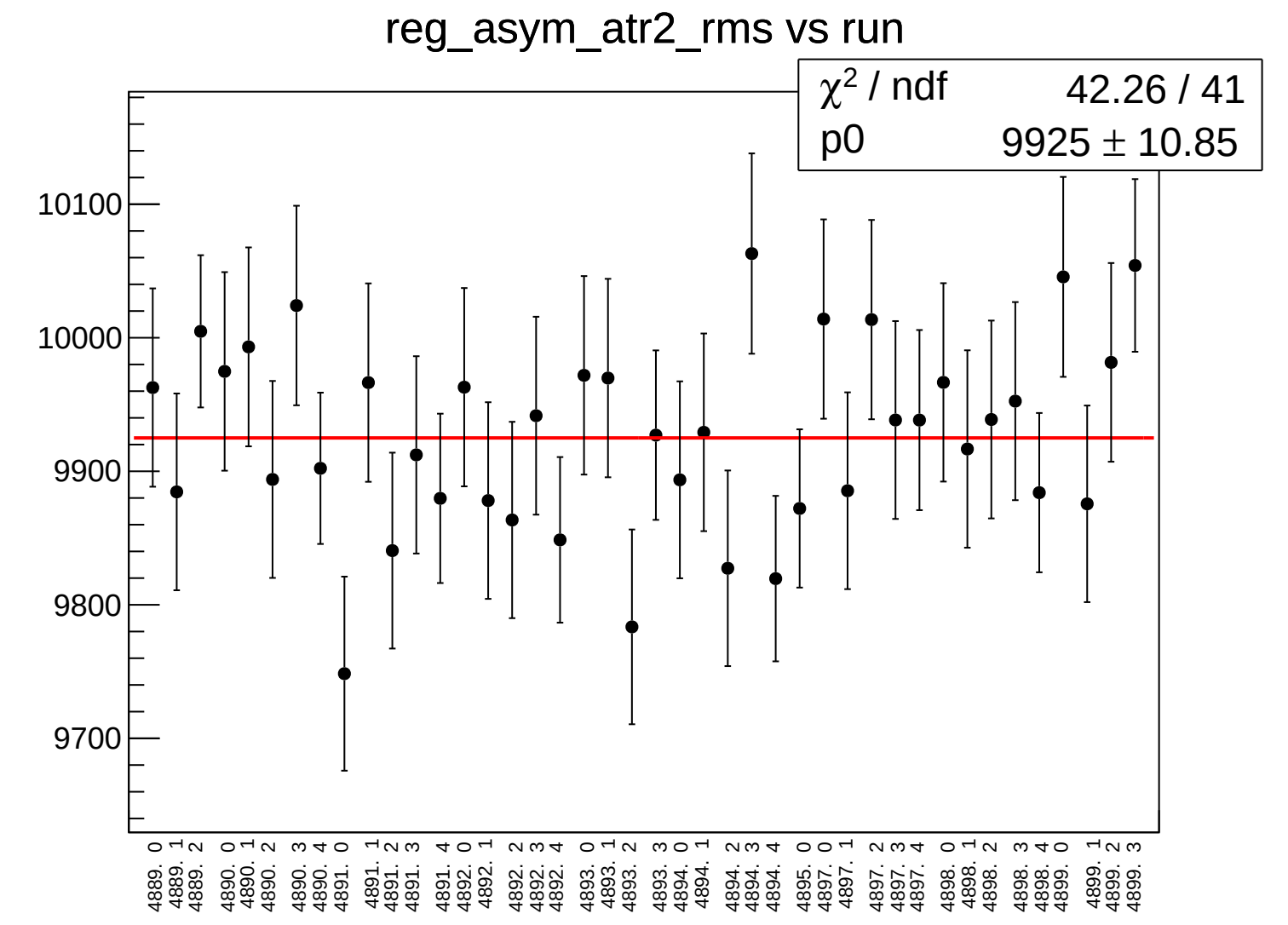

asym_atr1_mean vs run
×10^3
χ² / ndf 53.82 / 41
p0 3.337e+04 ± 1.298e+04
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 368
Std Dev 355.9
2
1
0
−1
−2

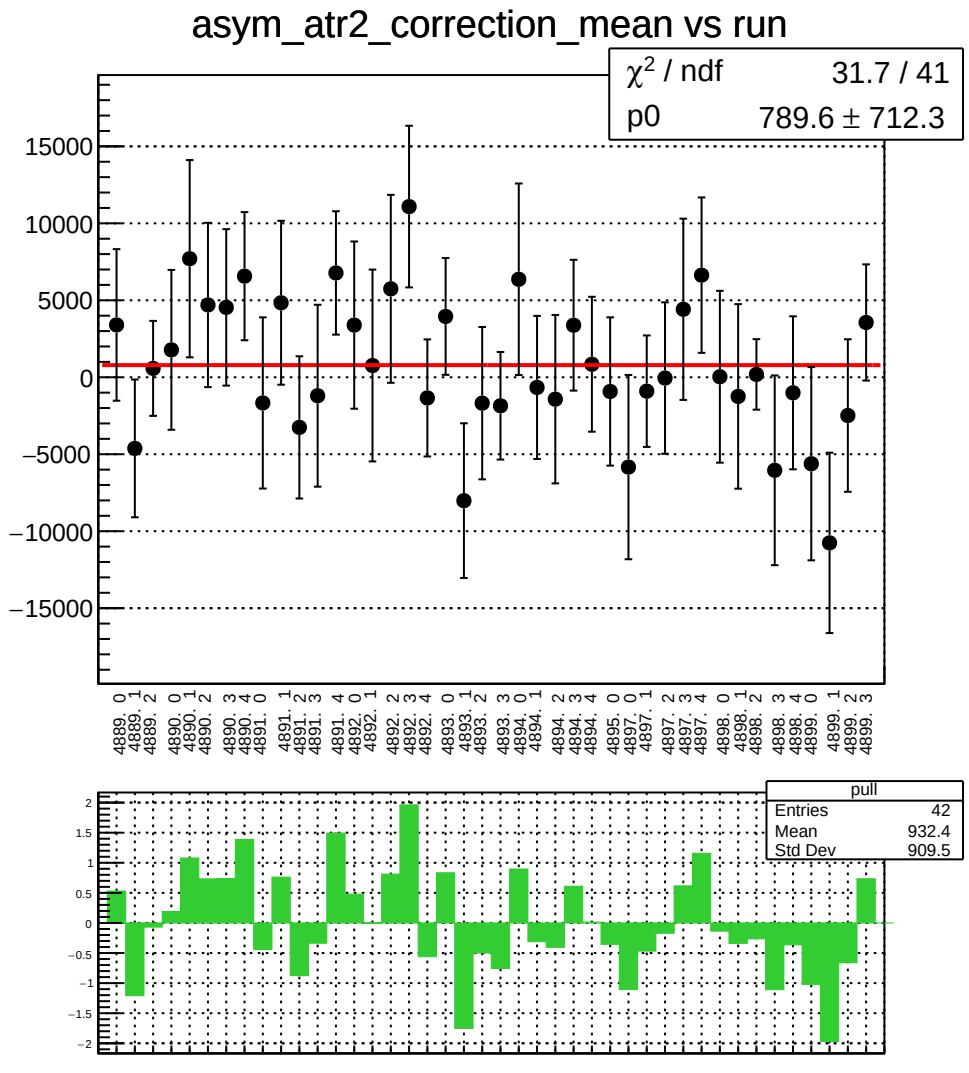

pull1D
Entries 42
Mean 0.0072
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

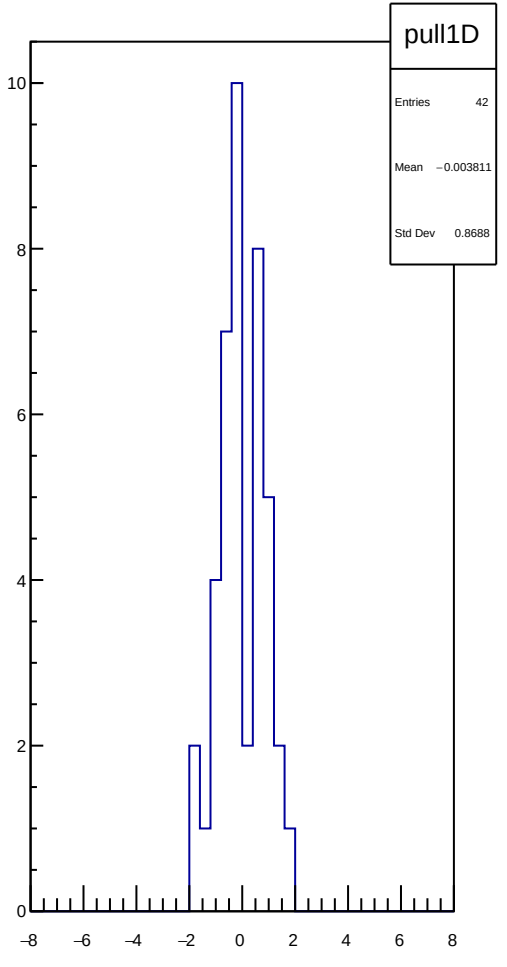

asym_atr1_rms vs run
χ² / ndf 52.78 / 41
p0 8402 ± 9.182
8600
8550
8500
8450
8400
8350
8300
8250
8200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

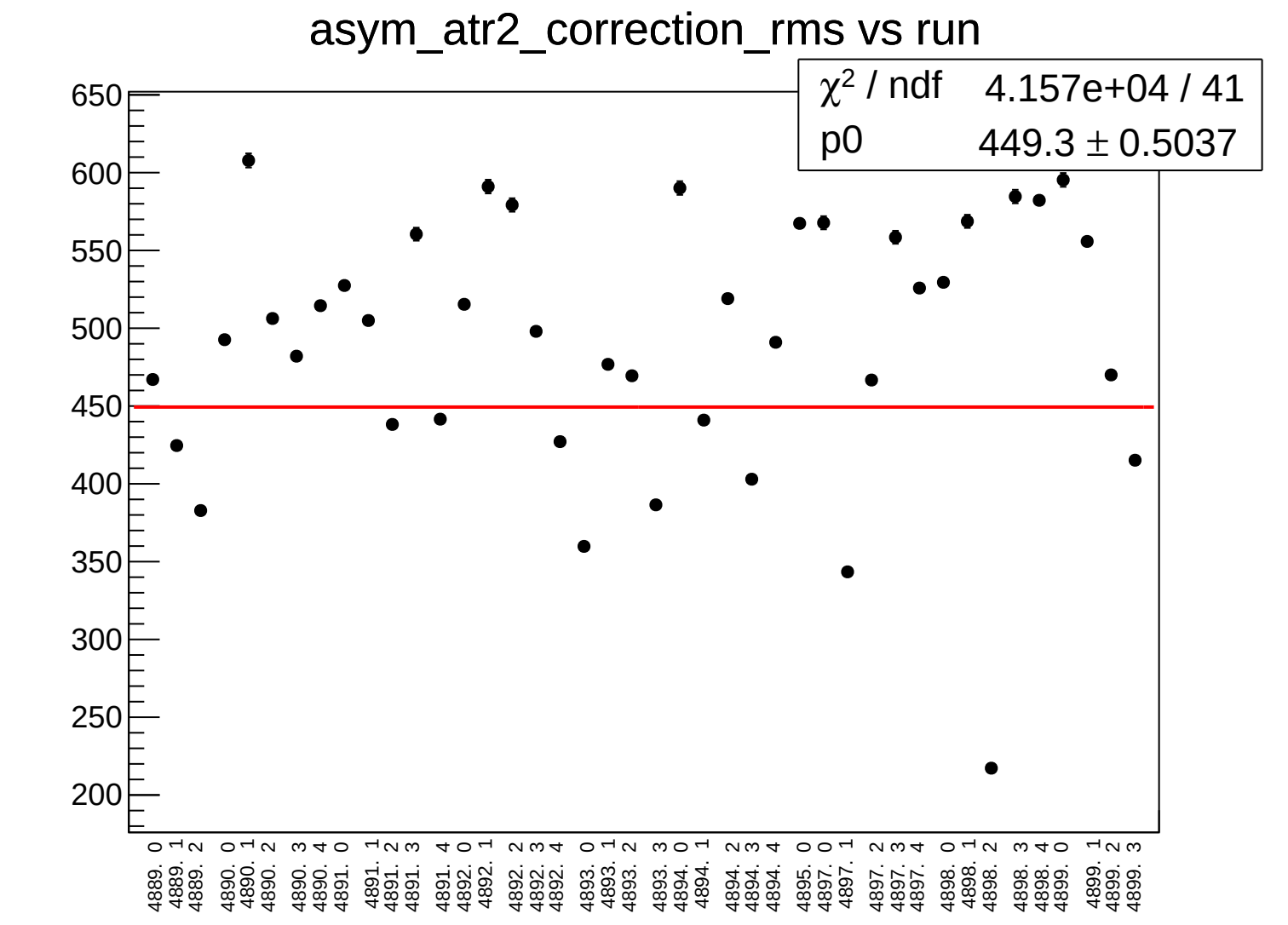

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 31.27 / 41
p0 2.648e+04 ± 1.534e+04
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −103.2
Std Dev 191.6
2
1
0
−1
−2

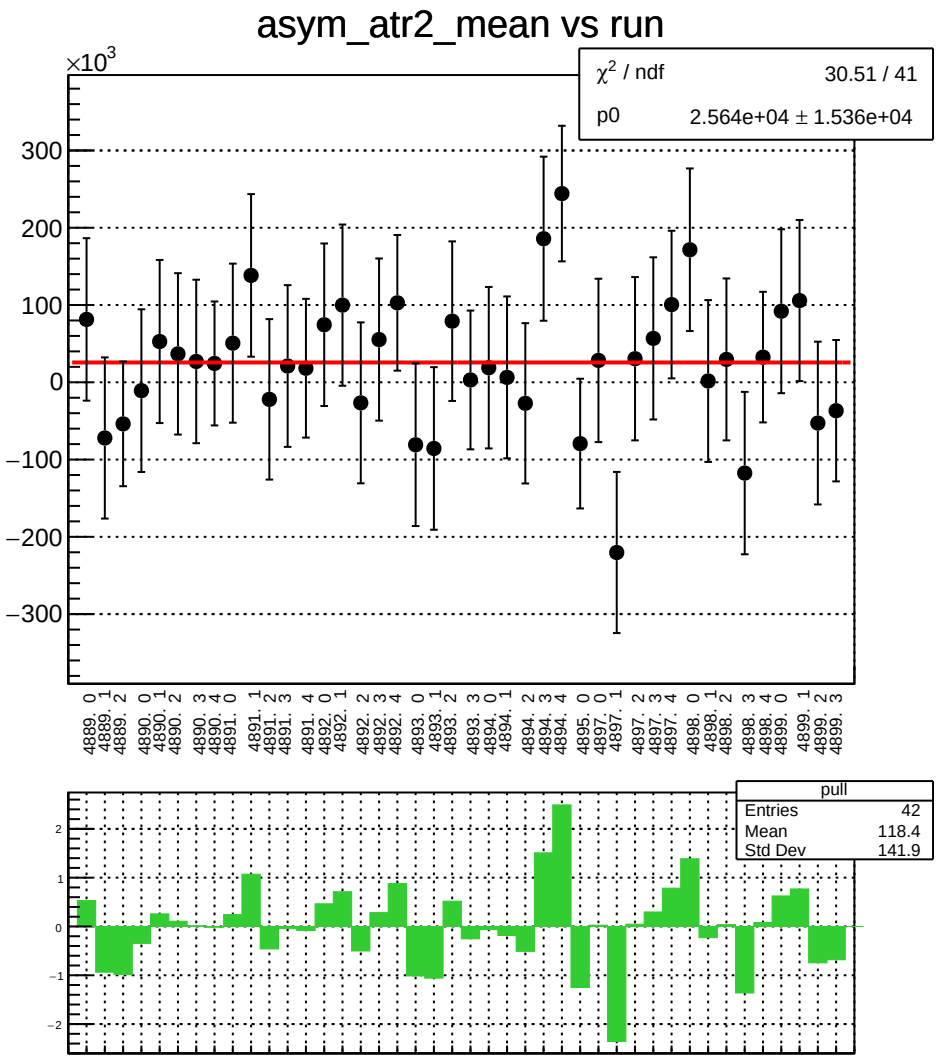

pull1D
Entries 42
Mean 0.0006358
Std Dev 0.8629
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

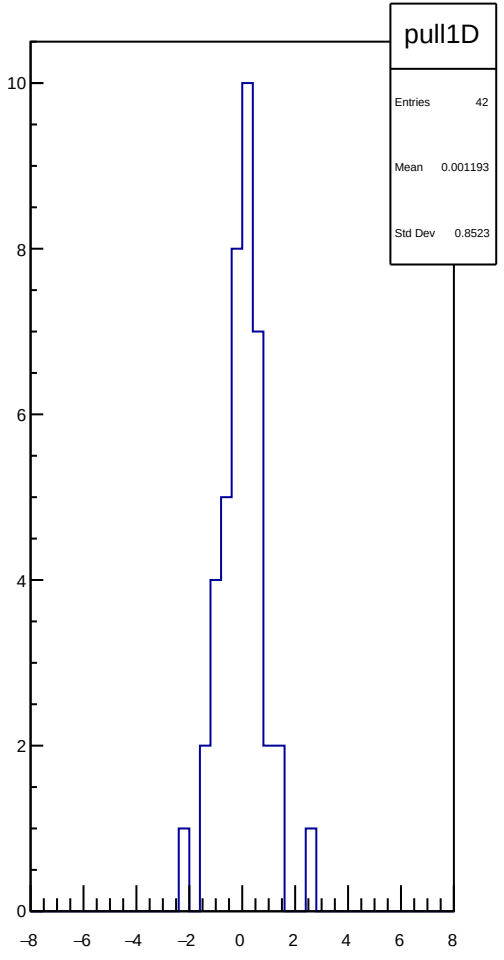

reg_asym_atr2_rms vs run
χ^2 / ndf 42.26 / 41
p0 9925 ± 10.85
10100
10000
9900
9800
9700
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

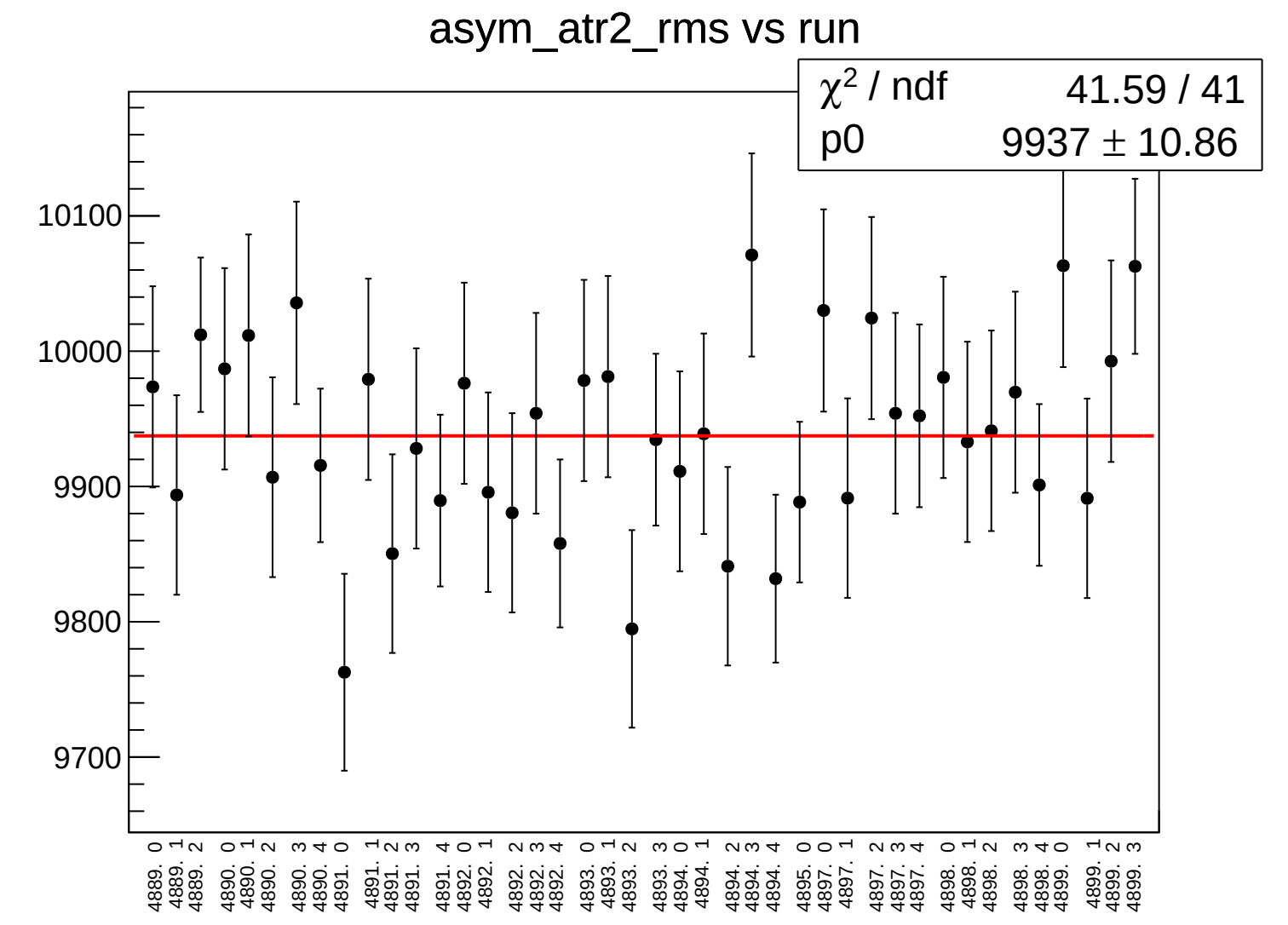

asym_atr2_correction_mean vs run
χ² / ndf 31.7 / 41
p0 789.6 ± 712.3
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 932.4
Std Dev 909.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

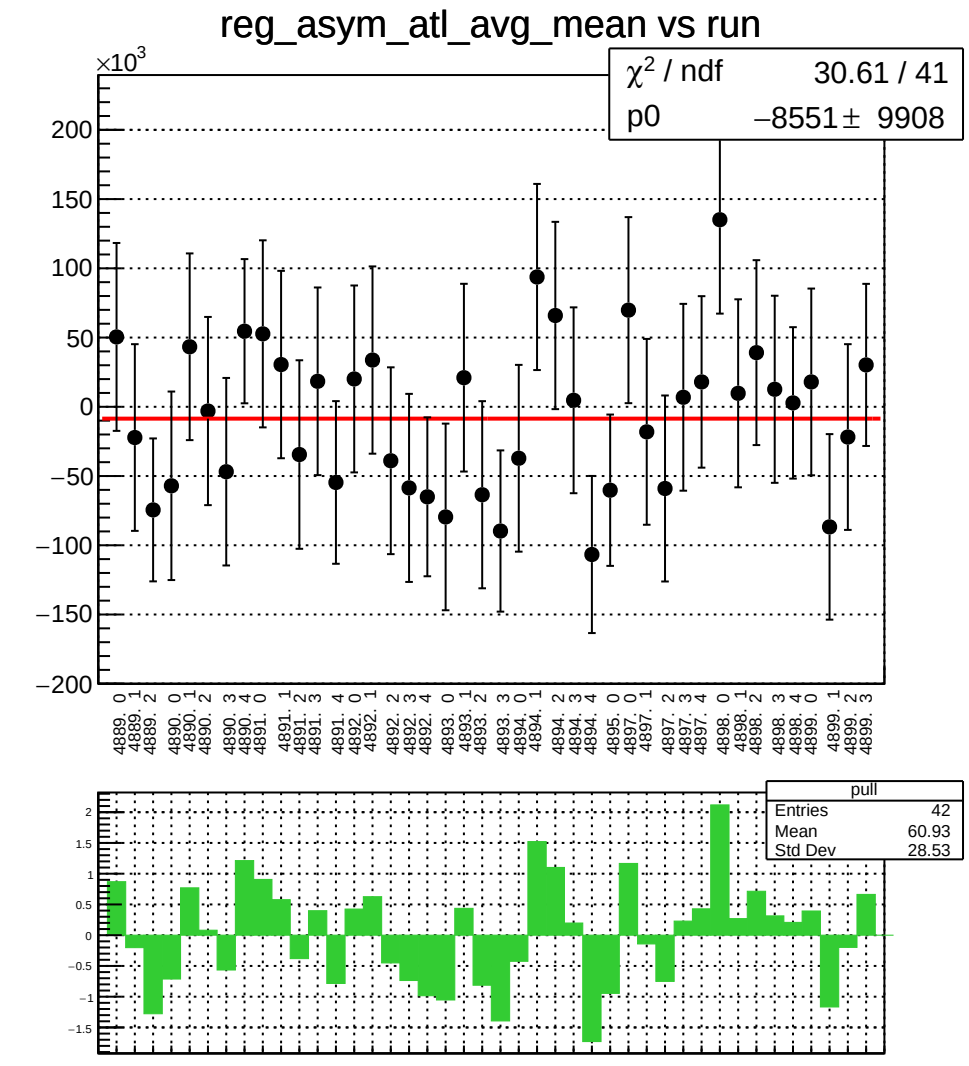

pull1D
Entries 42
Mean −0.003811
Std Dev 0.8688
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

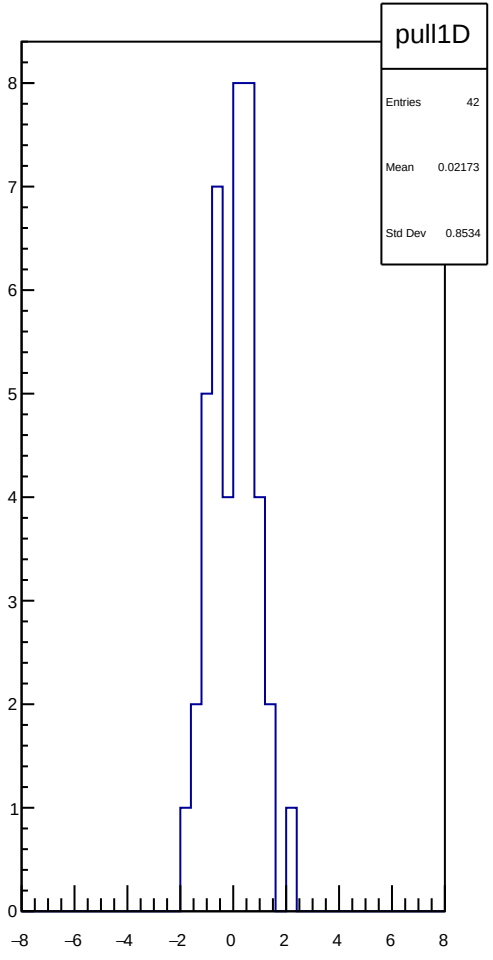

asym_atr2_correction_rms vs run
χ² / ndf 4.157e+04 / 41
p0 449.3 ± 0.5037
650
600
550
500
450
400
350
300
250
200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

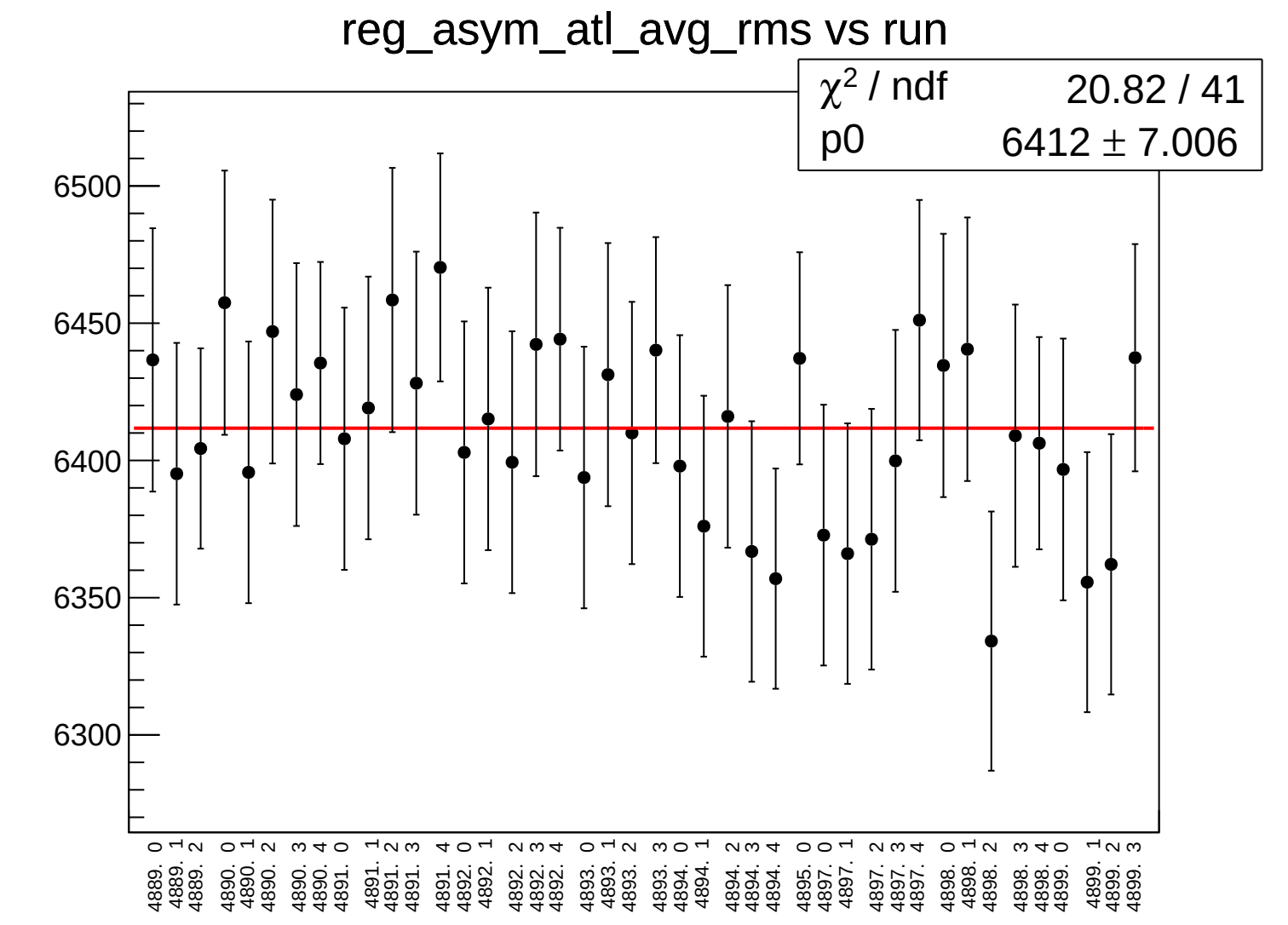

asym_atr2_mean vs run
×10^3
χ² / ndf 30.51 / 41
p0 2.564e+04 ± 1.536e+04
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 118.4
Std Dev 141.9
2
1
0
−1
−2

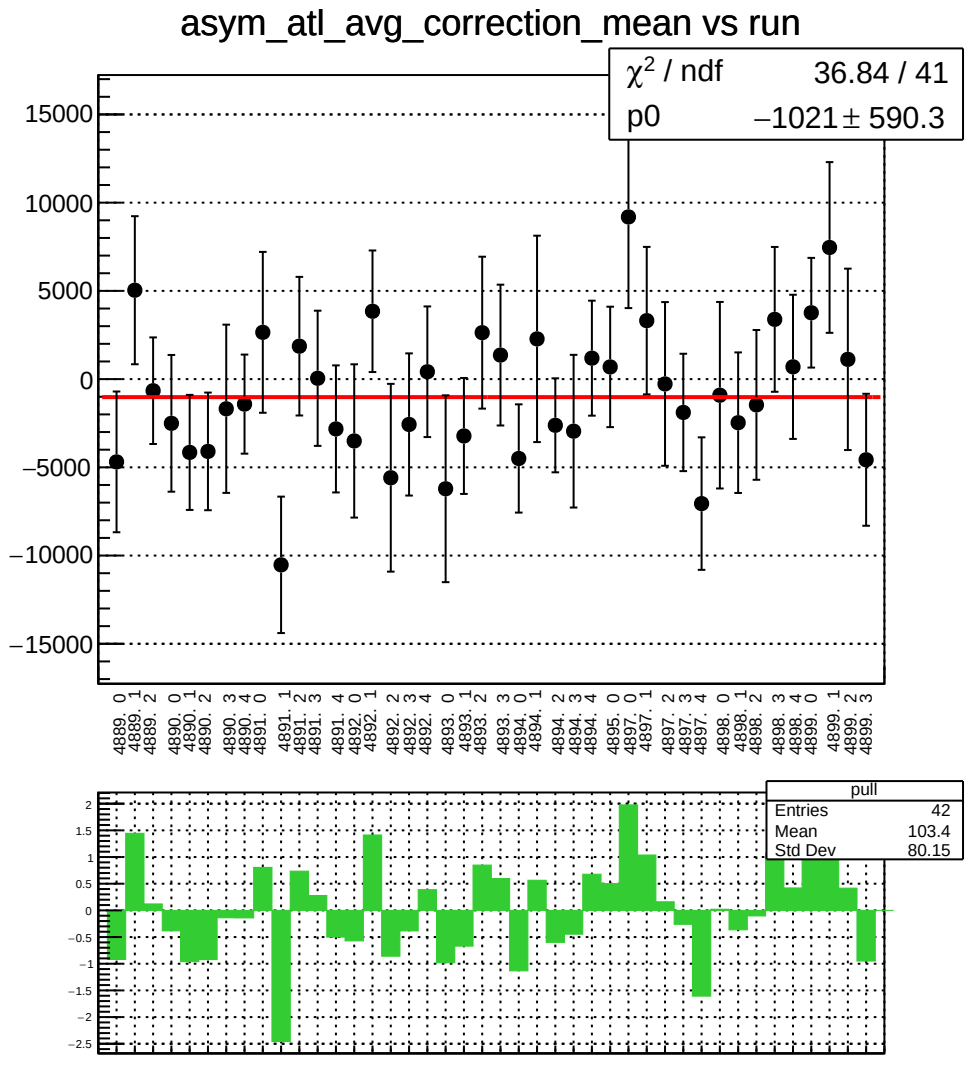

pull1D
Entries 42
Mean 0.001193
Std Dev 0.8523
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

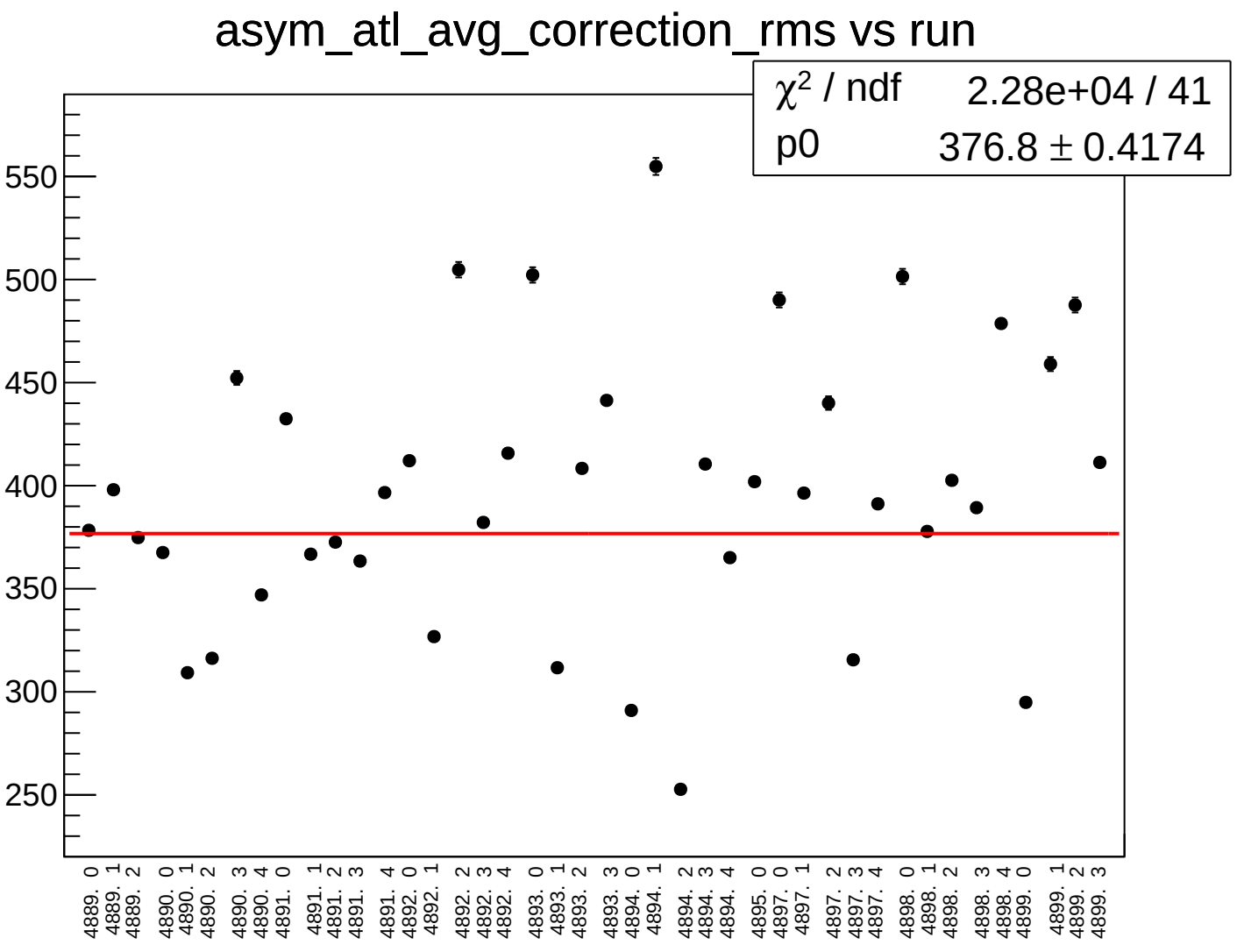

asym_atr2_rms vs run
χ^2 / ndf 41.59 / 41
p0 9937 ± 10.86
10100
10000
9900
9800
9700
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

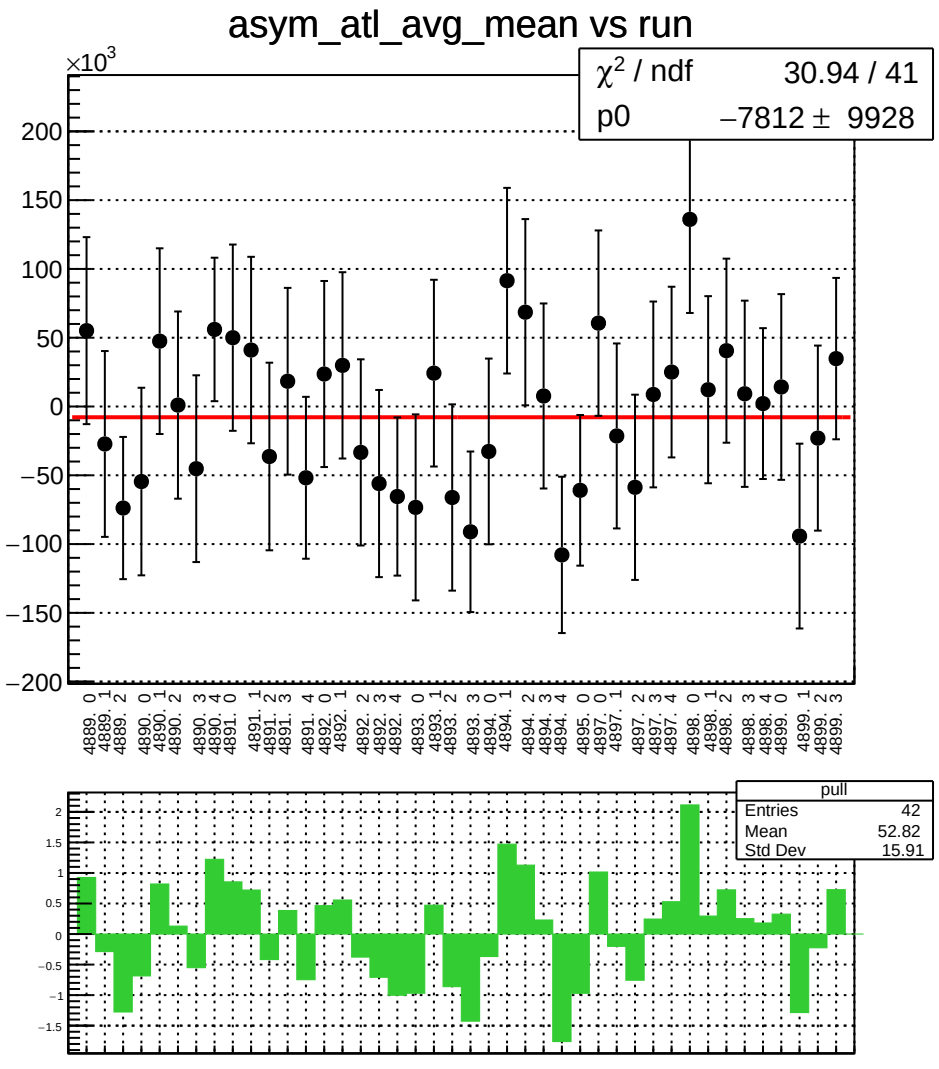

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 30.61 / 41
p0 −8551 ± 9908
200
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 60.93
Std Dev 28.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

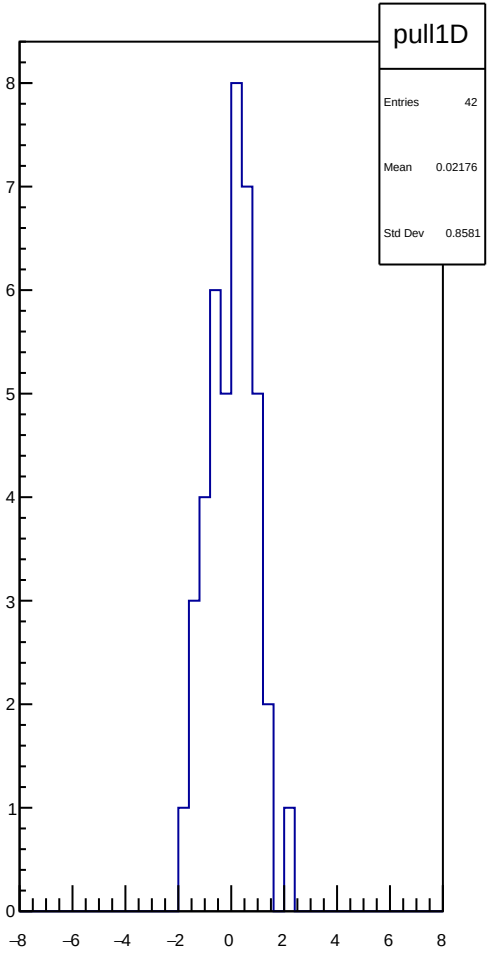

pull1D
Entries 42
Mean 0.02173
Std Dev 0.8534
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

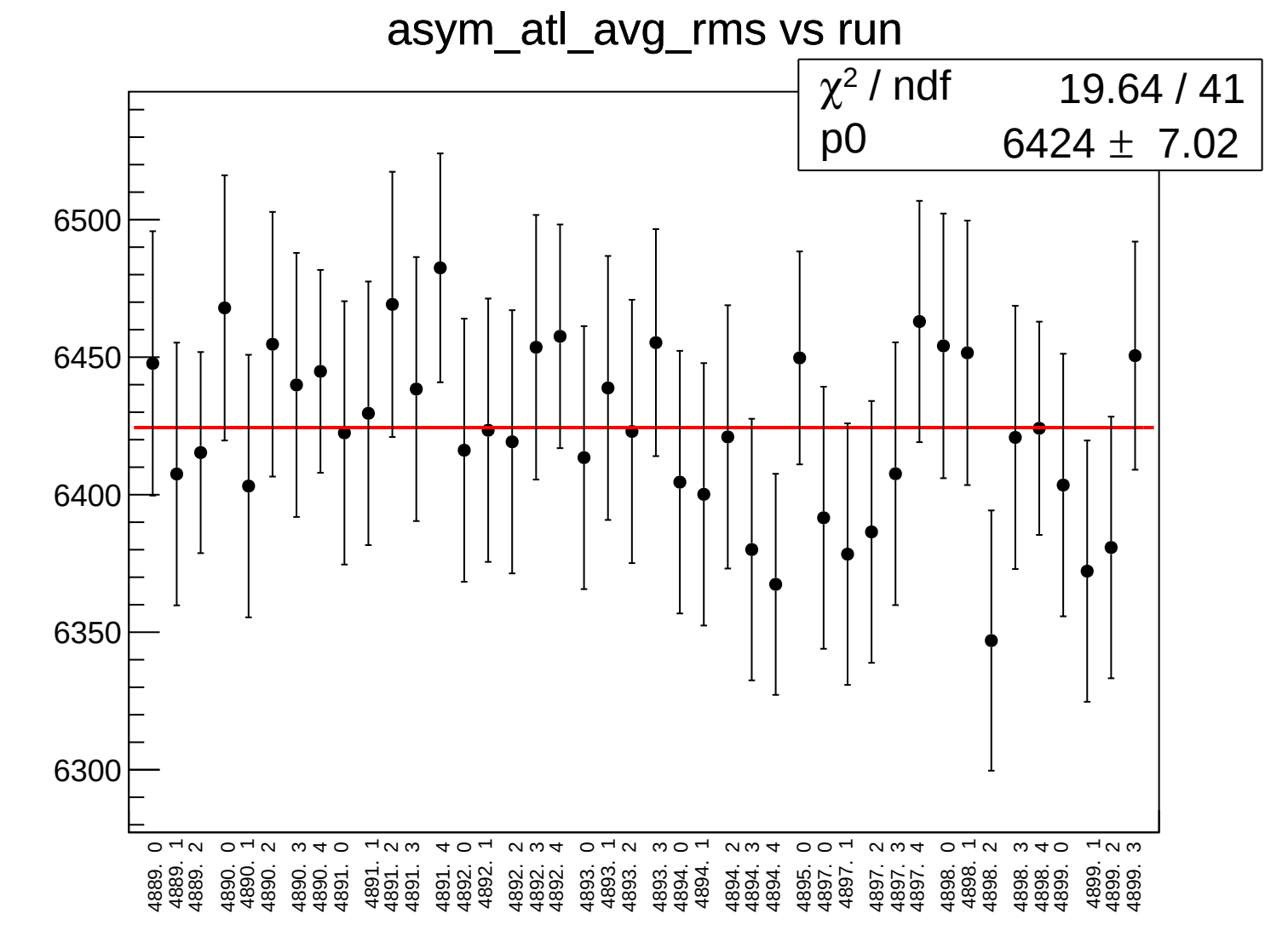

reg_asym_atl_avg_rms vs run
χ² / ndf 20.82 / 41
p0 6412 ± 7.006
6500
6450
6400
6350
6300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

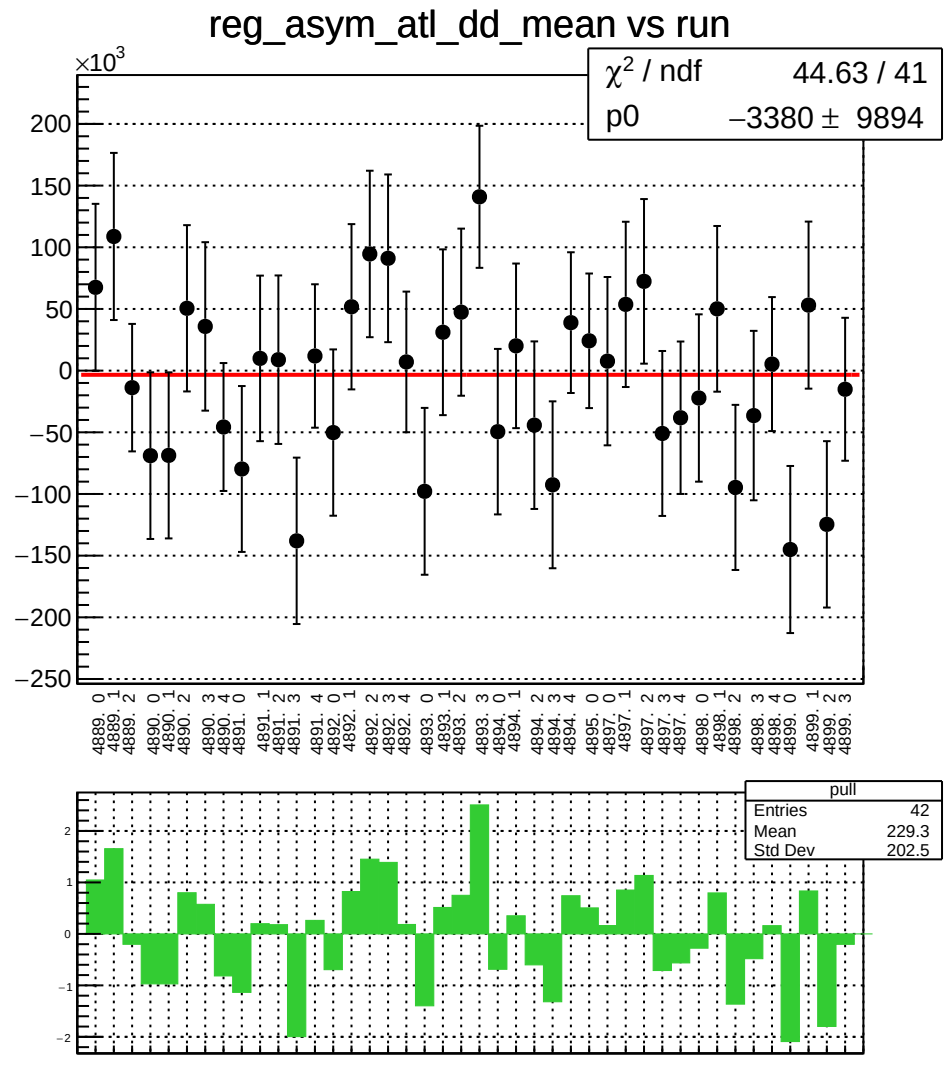

asym_atl_avg_correction_mean vs run
χ² / ndf 36.84 / 41
p0 −1021 ± 590.3
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 103.4
Std Dev 80.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean 0.03377
Std Dev 0.9359
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

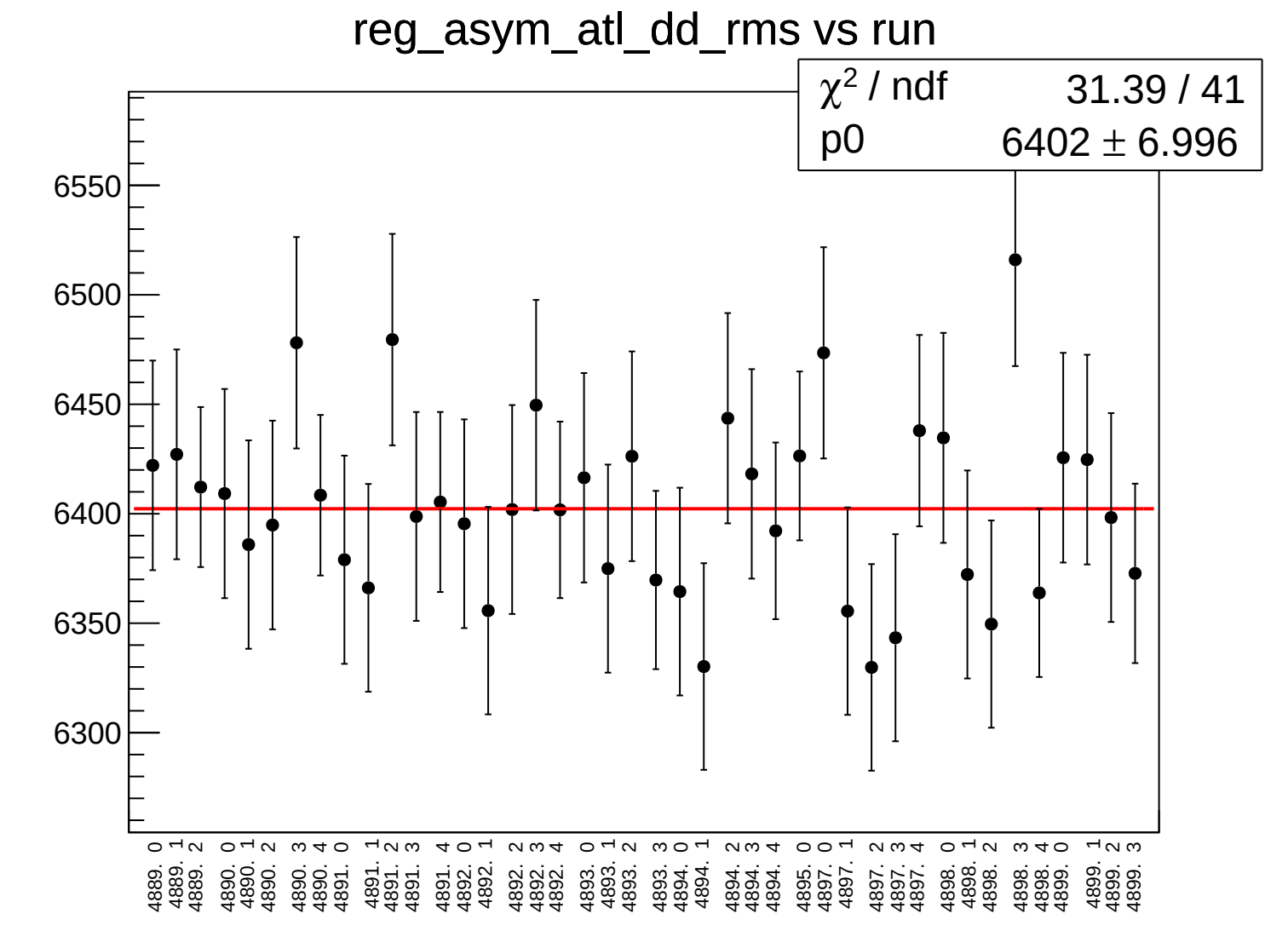

asym_atl_avg_correction_rms vs run
χ² / ndf 2.28e+04 / 41
p0 376.8 ± 0.4174
550
500
450
400
350
300
250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

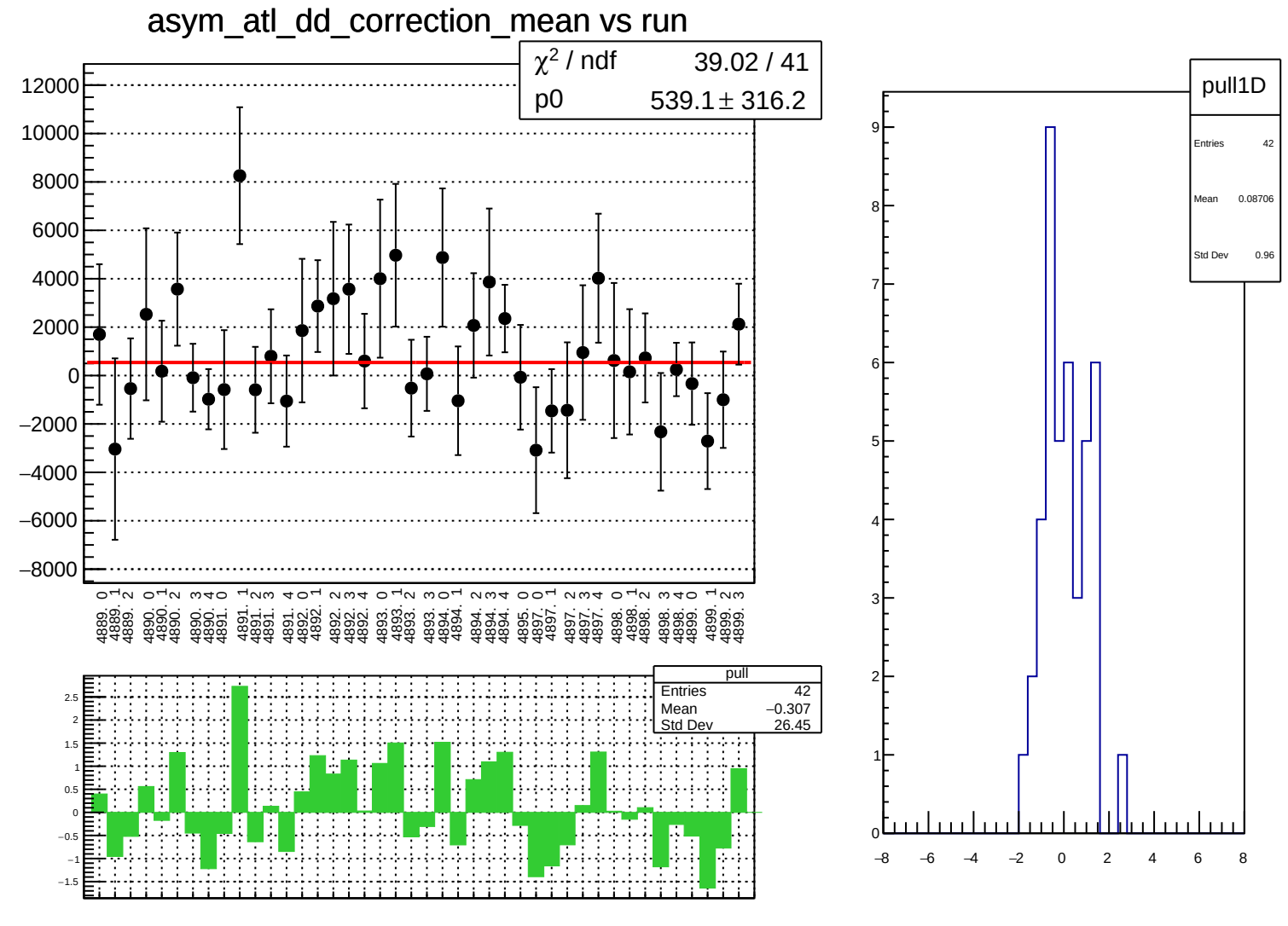

asym_atl_avg_mean vs run
×10^3
χ² / ndf 30.94 / 41
p0 −7812 ± 9928
200
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 52.82
Std Dev 15.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

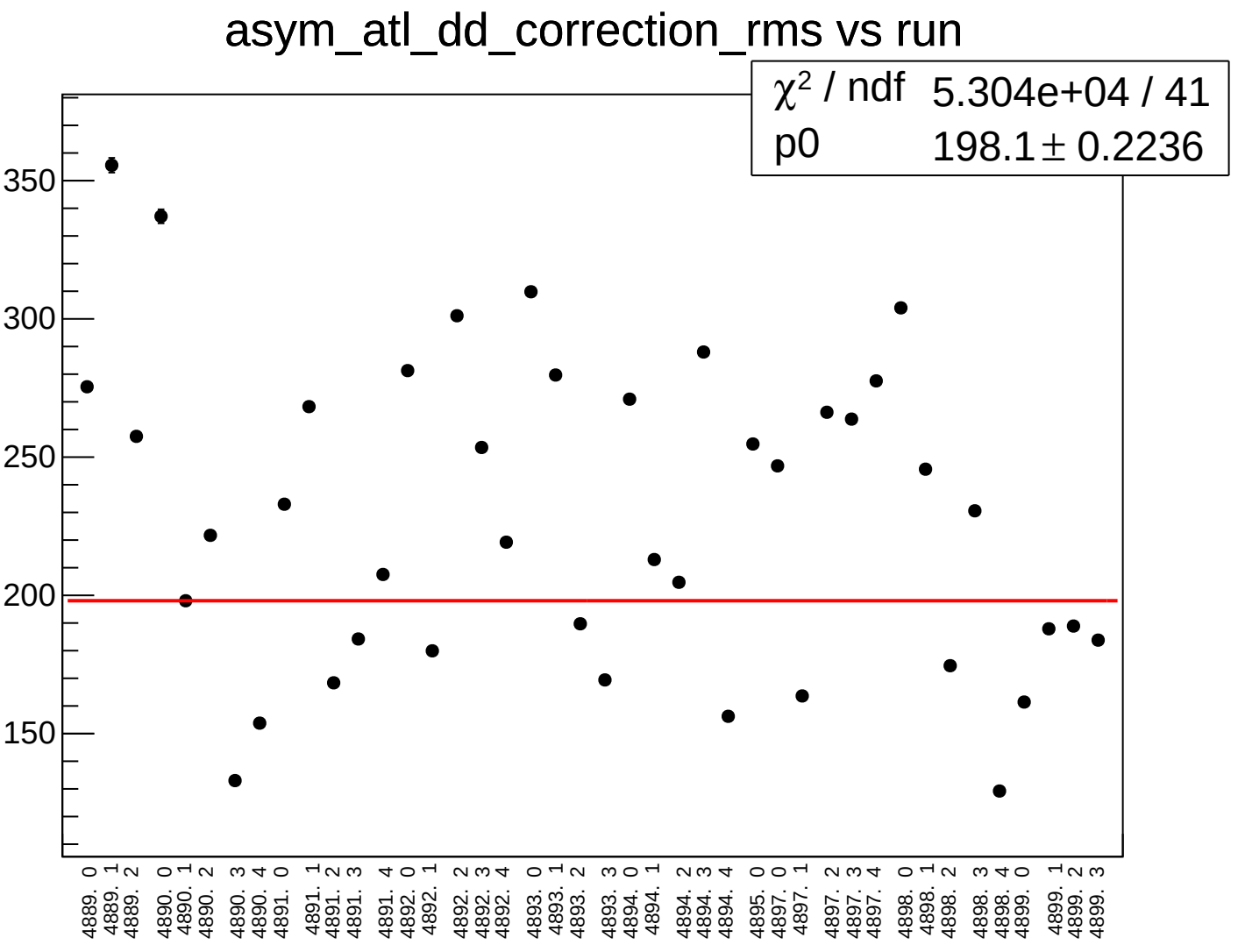

pull1D
Entries 42
Mean 0.02176
Std Dev 0.8581
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

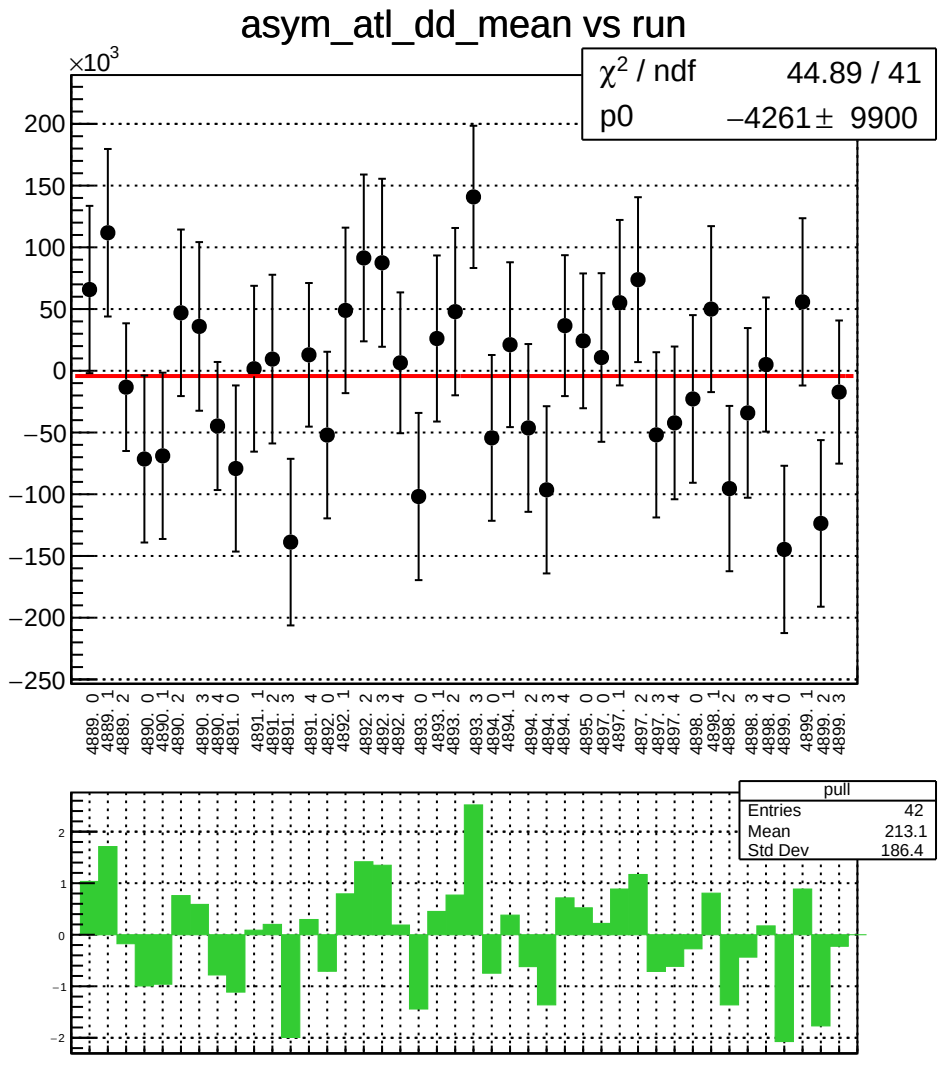

asym_atl_avg_rms vs run
χ² / ndf 19.64 / 41
p0 6424 ± 7.02
6500
6450
6400
6350
6300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

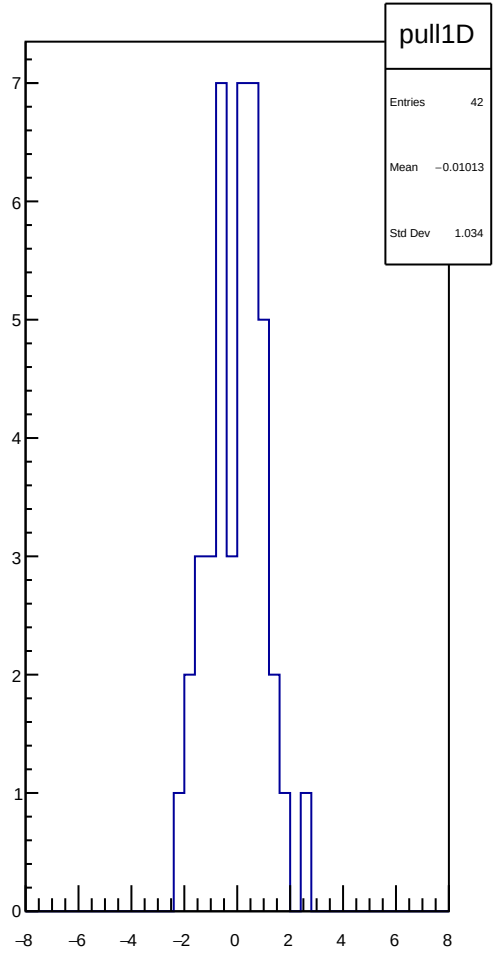

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 44.63 / 41
p0 −3380 ± 9894
200
150
100
50
0
−50
−100
−150
−200
−250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 229.3
Std Dev 202.5
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.00967
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

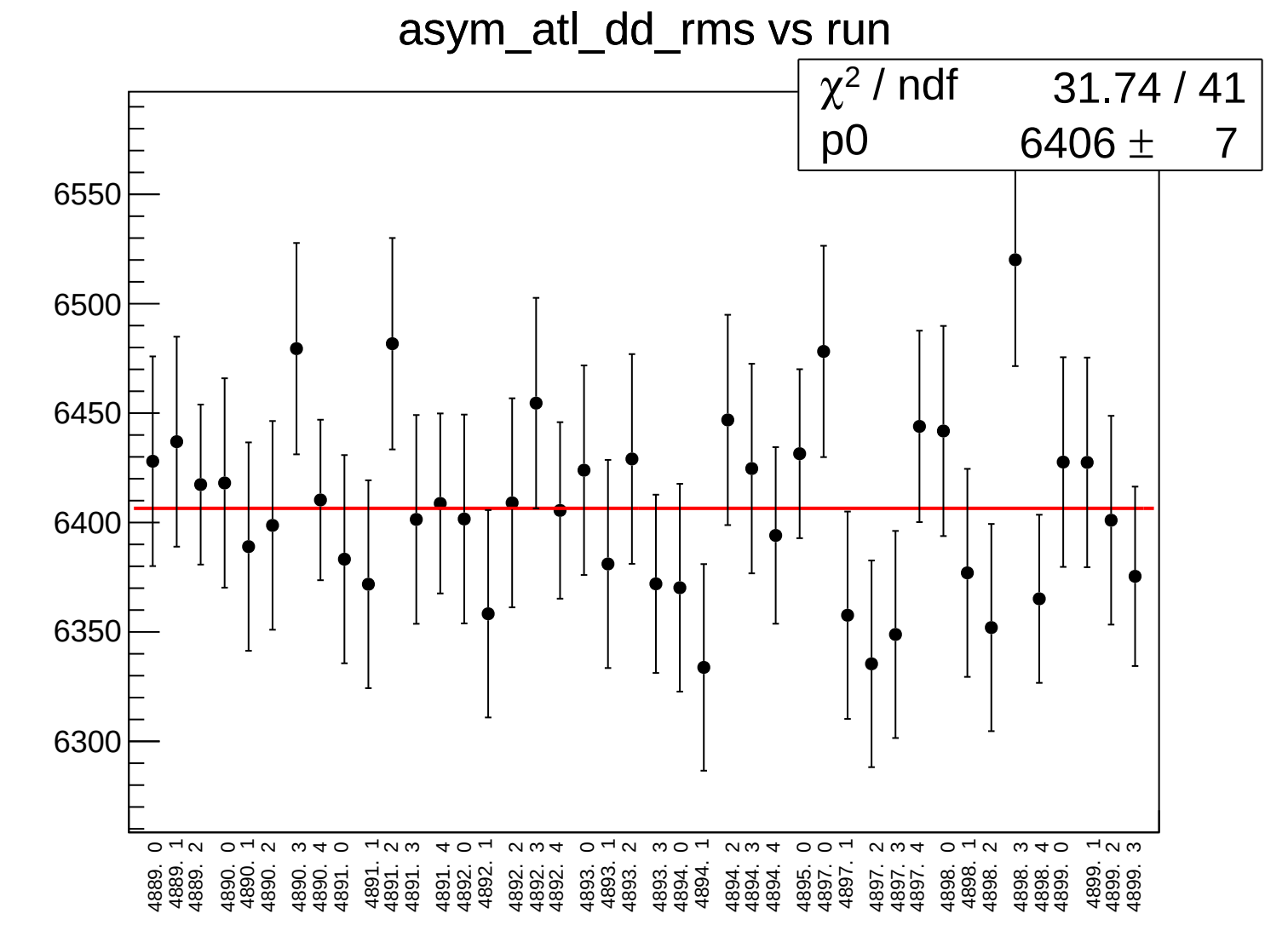

reg_asym_atl_dd_rms vs run
χ² / ndf 31.39 / 41
p0 6402 ± 6.996
6550
6500
6450
6400
6350
6300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

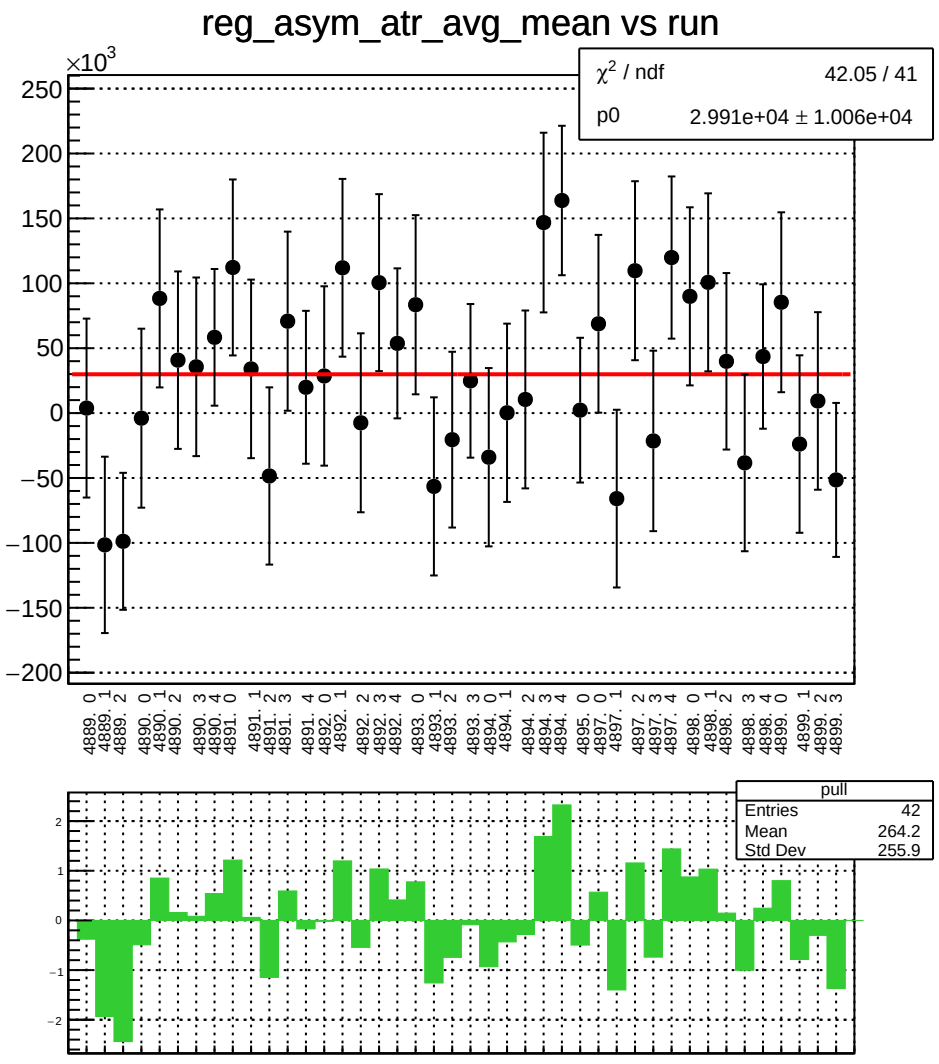

asym_atl_dd_correction_mean vs run
χ² / ndf 39.02 / 41
p0 539.1 ± 316.2
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −0.307
Std Dev 26.45
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.08706
Std Dev 0.96
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

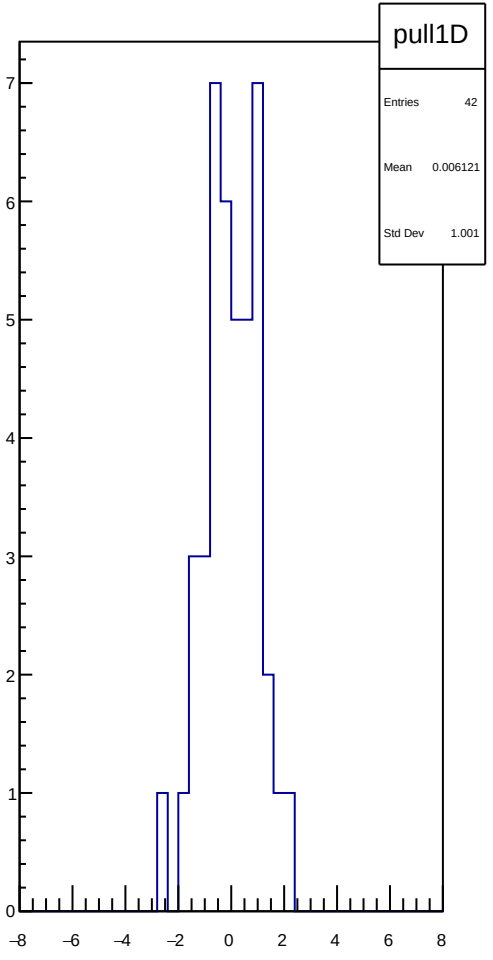

asym_atl_dd_correction_rms vs run
χ² / ndf 5.304e+04 / 41
p0 198.1 ± 0.2236
350
300
250
200
150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

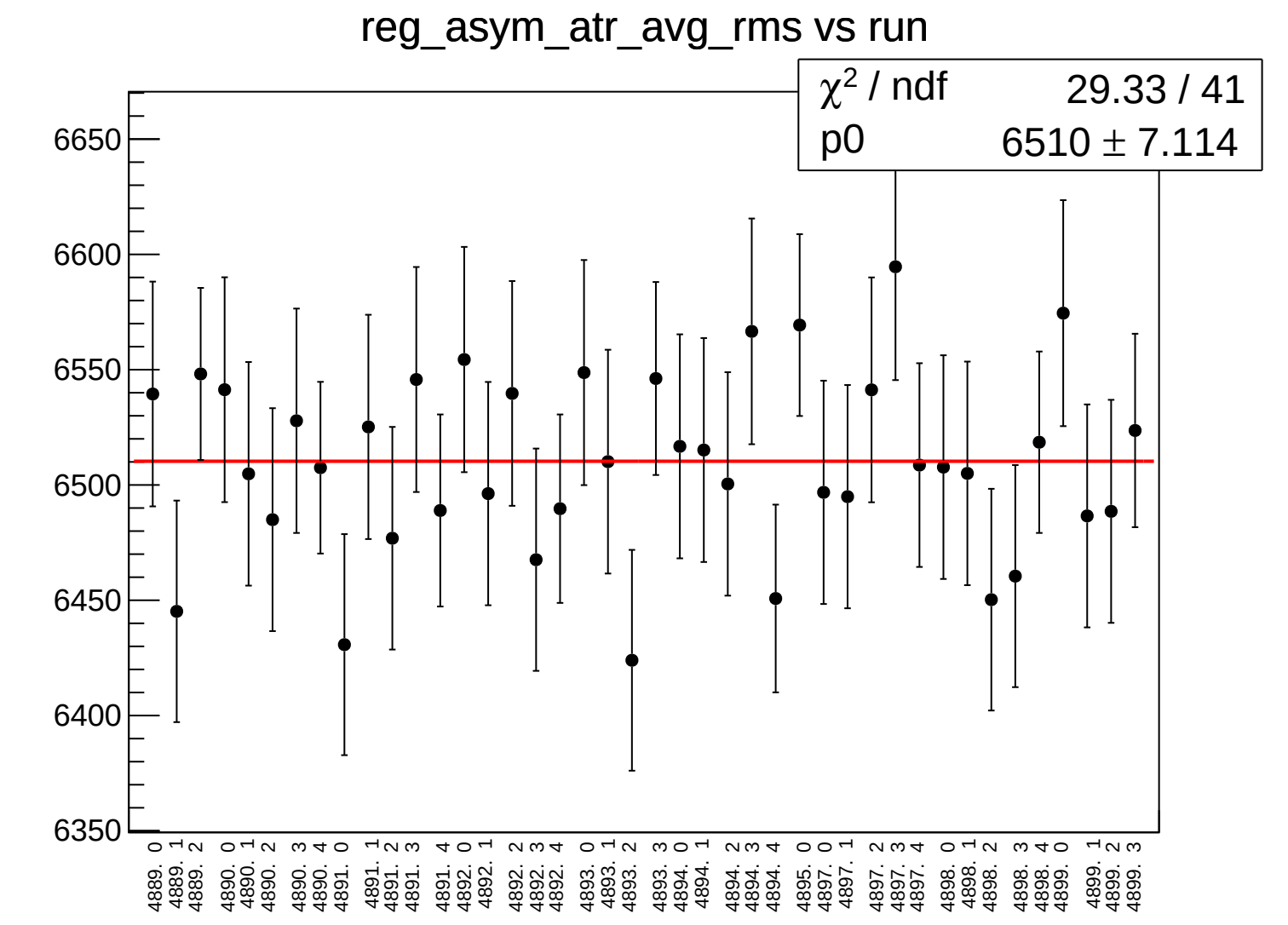

asym_atl_dd_mean vs run
×10^3
χ² / ndf 44.89 / 41
p0 −4261 ± 9900
200
150
100
50
0
−50
−100
−150
−200
−250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 213.1
Std Dev 186.4
2
1
0
−1
−2

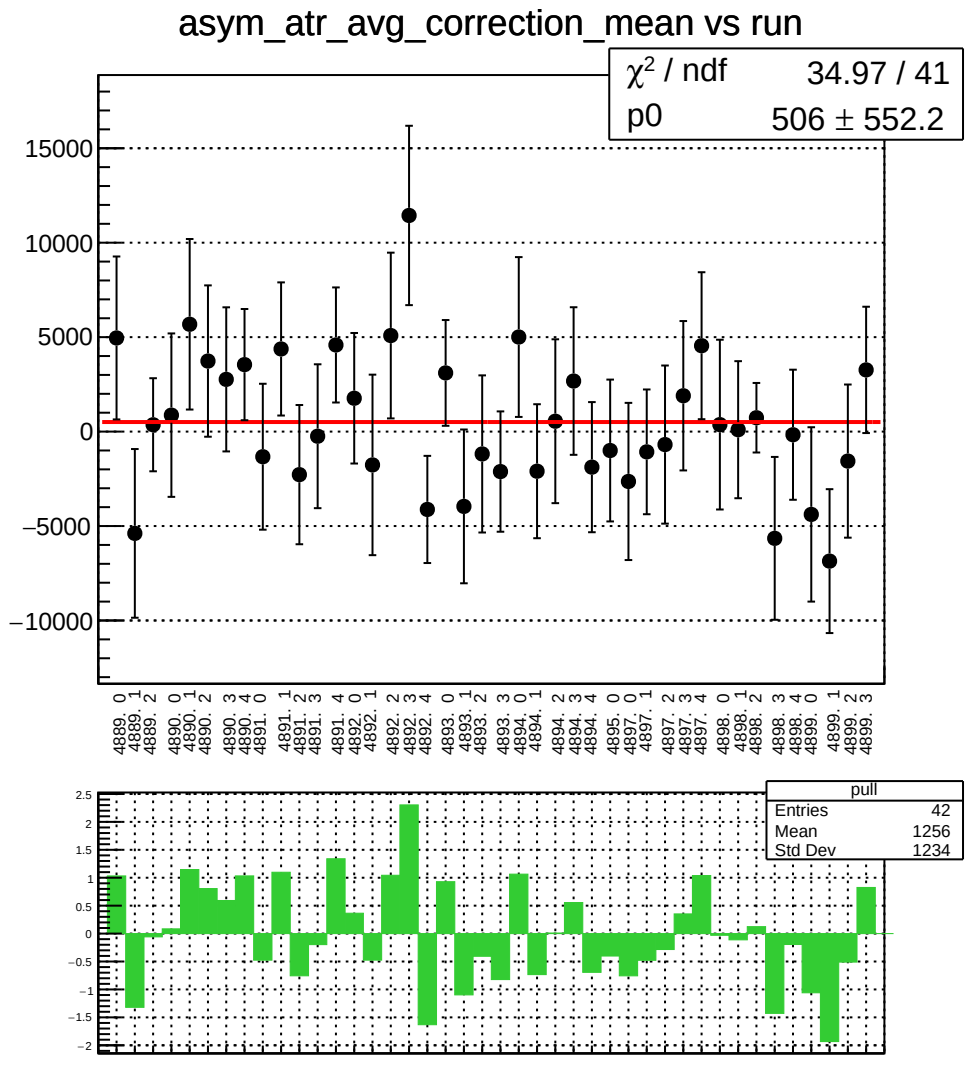

pull1D
Entries 42
Mean −0.01013
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

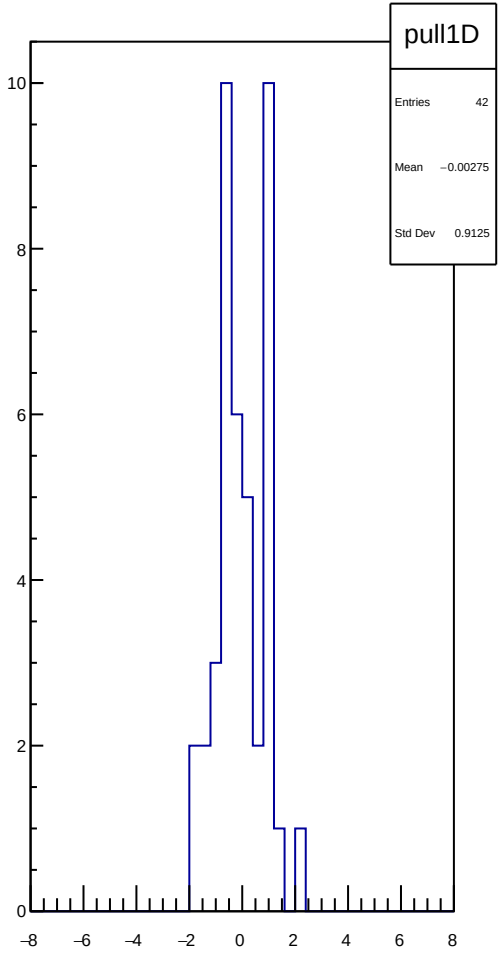

asym_atl_dd_rms vs run
χ² / ndf 31.74 / 41
p0 6406 ± 7
6550
6500
6450
6400
6350
6300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

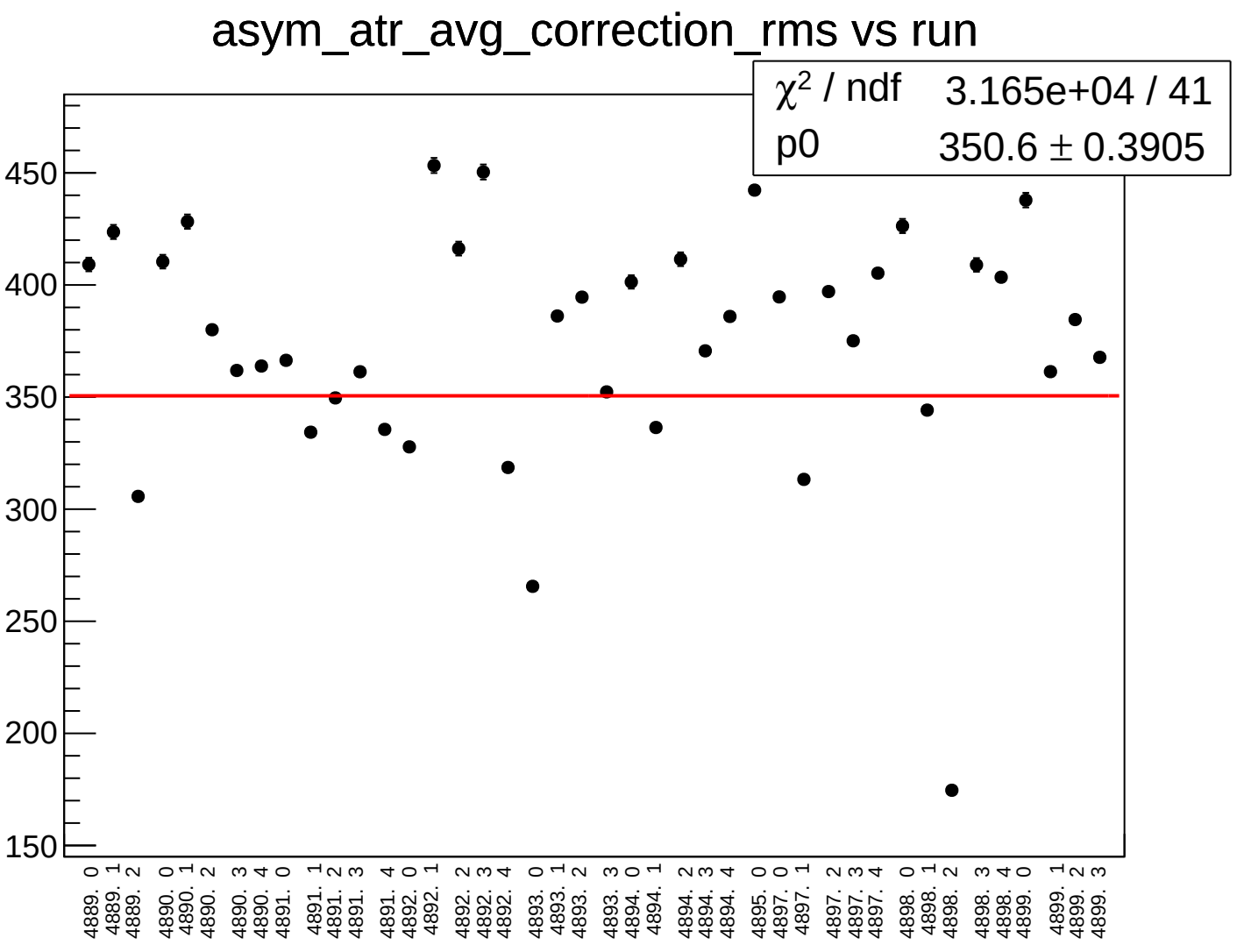

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 42.05 / 41
p0 2.991e+04 ± 1.006e+04
pull
Entries 42
Mean 264.2
Std Dev 255.9

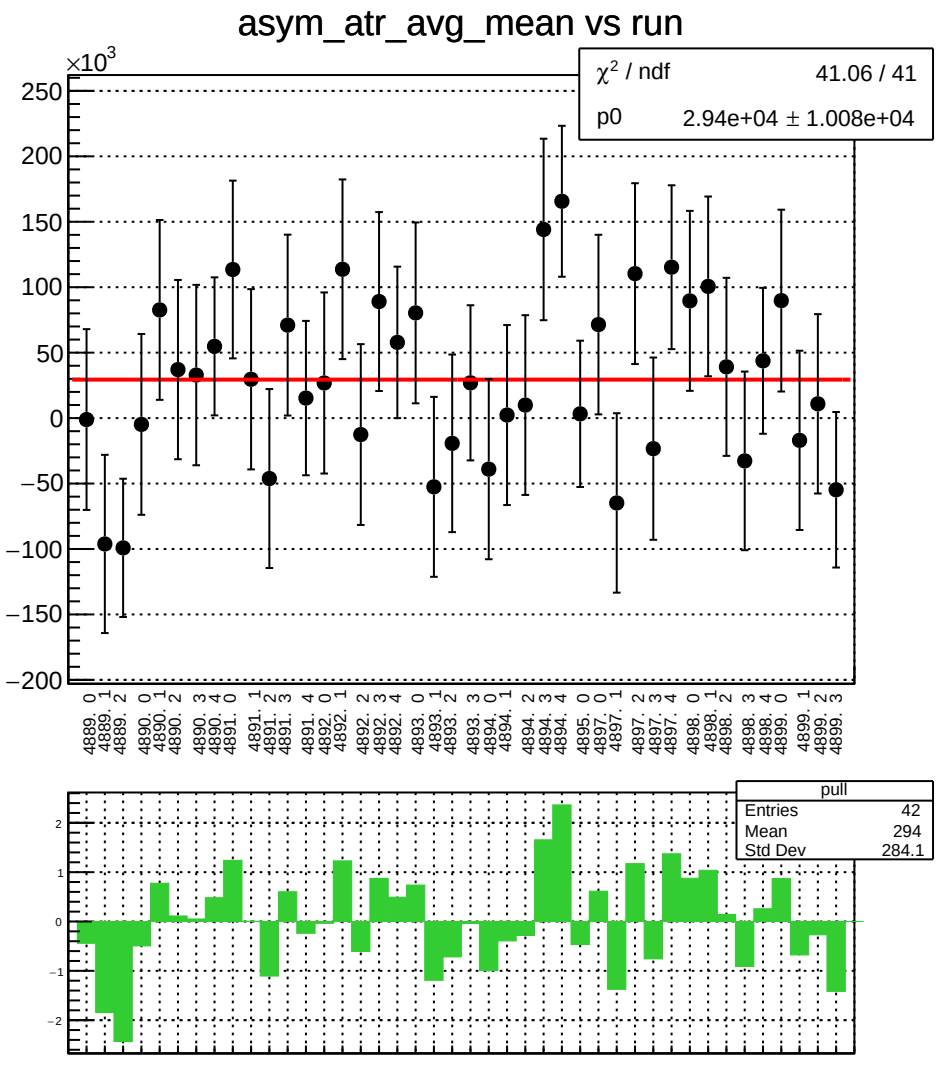

pull1D
Entries 42
Mean 0.006121
Std Dev 1.001

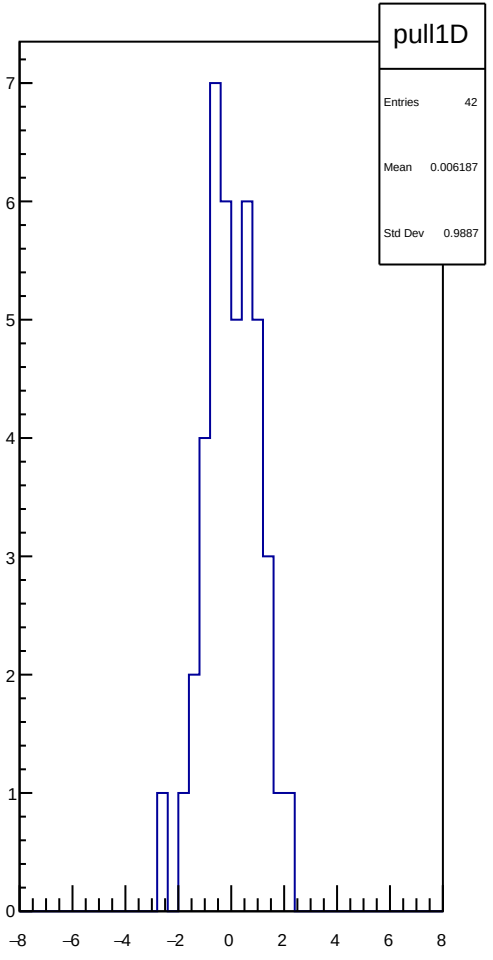

reg_asym_atr_avg_rms vs run
χ² / ndf 29.33 / 41
p0 6510 ± 7.114
6650
6600
6550
6500
6450
6400
6350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

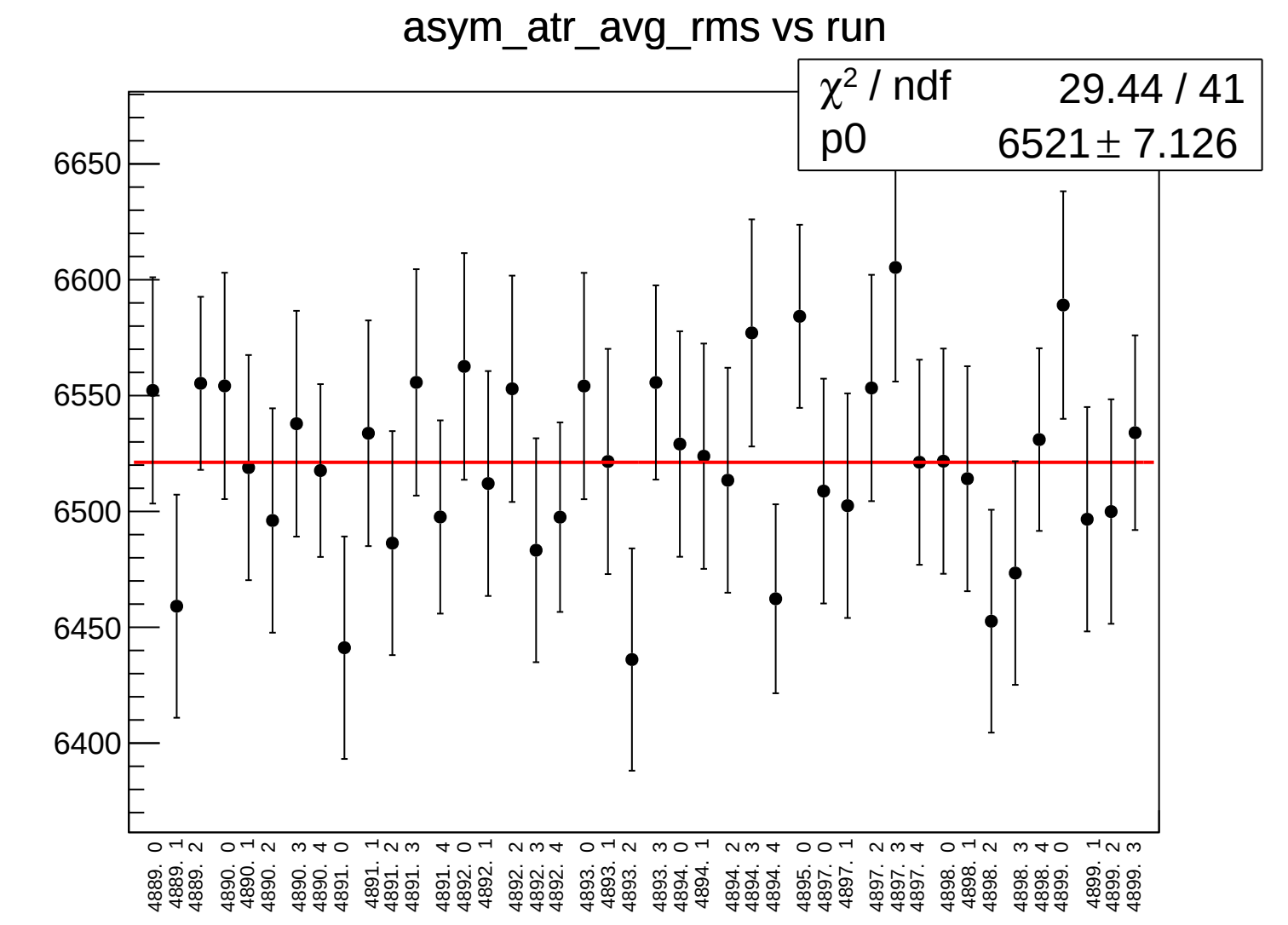

asym_atr_avg_correction_mean vs run
χ² / ndf 34.97 / 41
p0 506 ± 552.2
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1256
Std Dev 1234
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

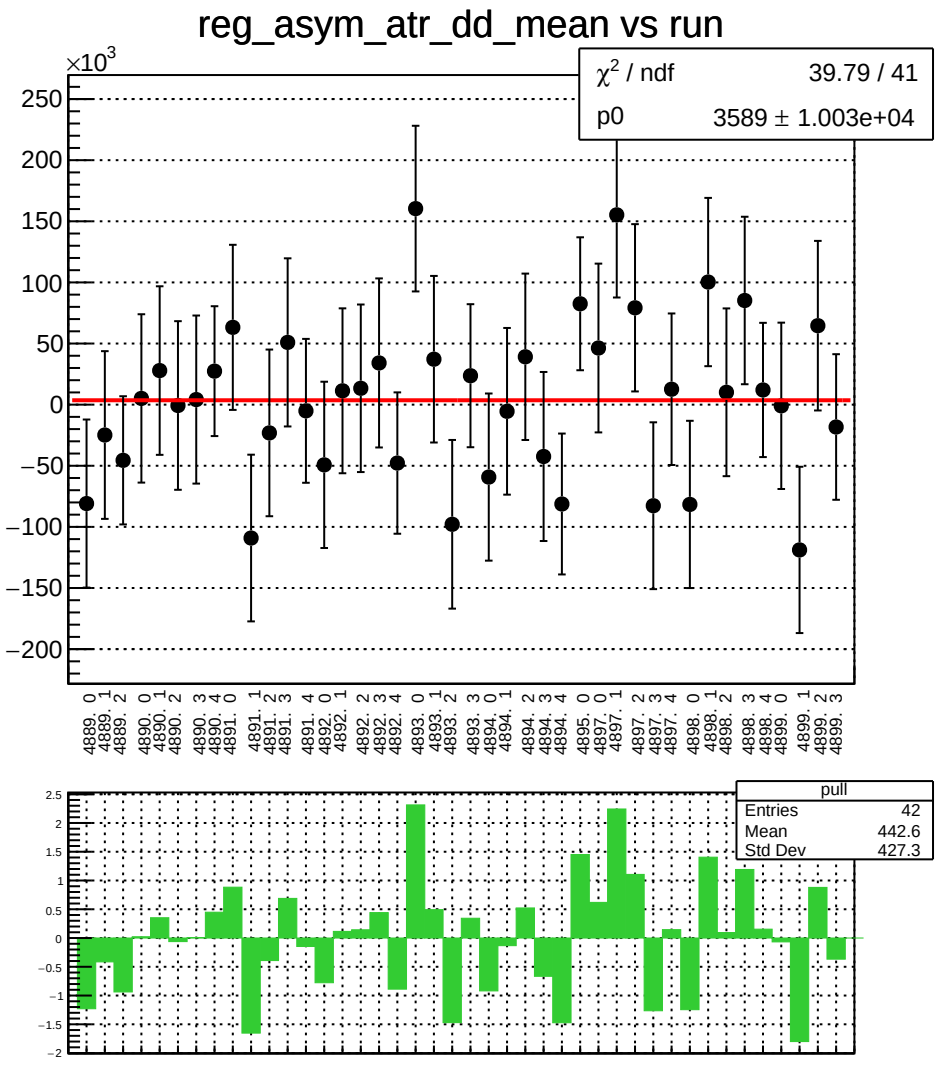

pull1D
Entries 42
Mean −0.00275
Std Dev 0.9125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

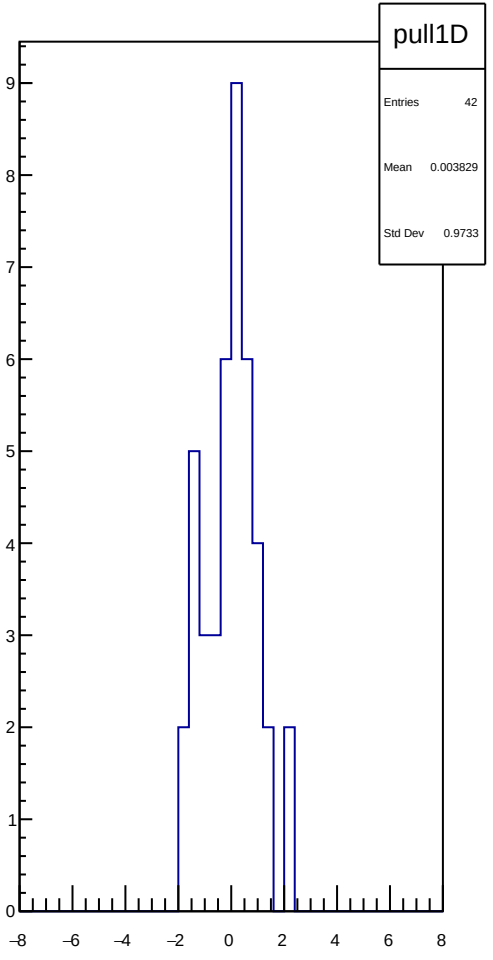

asym_atr_avg_correction_rms vs run
χ² / ndf 3.165e+04 / 41
p0 350.6 ± 0.3905
450
400
350
300
250
200
150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

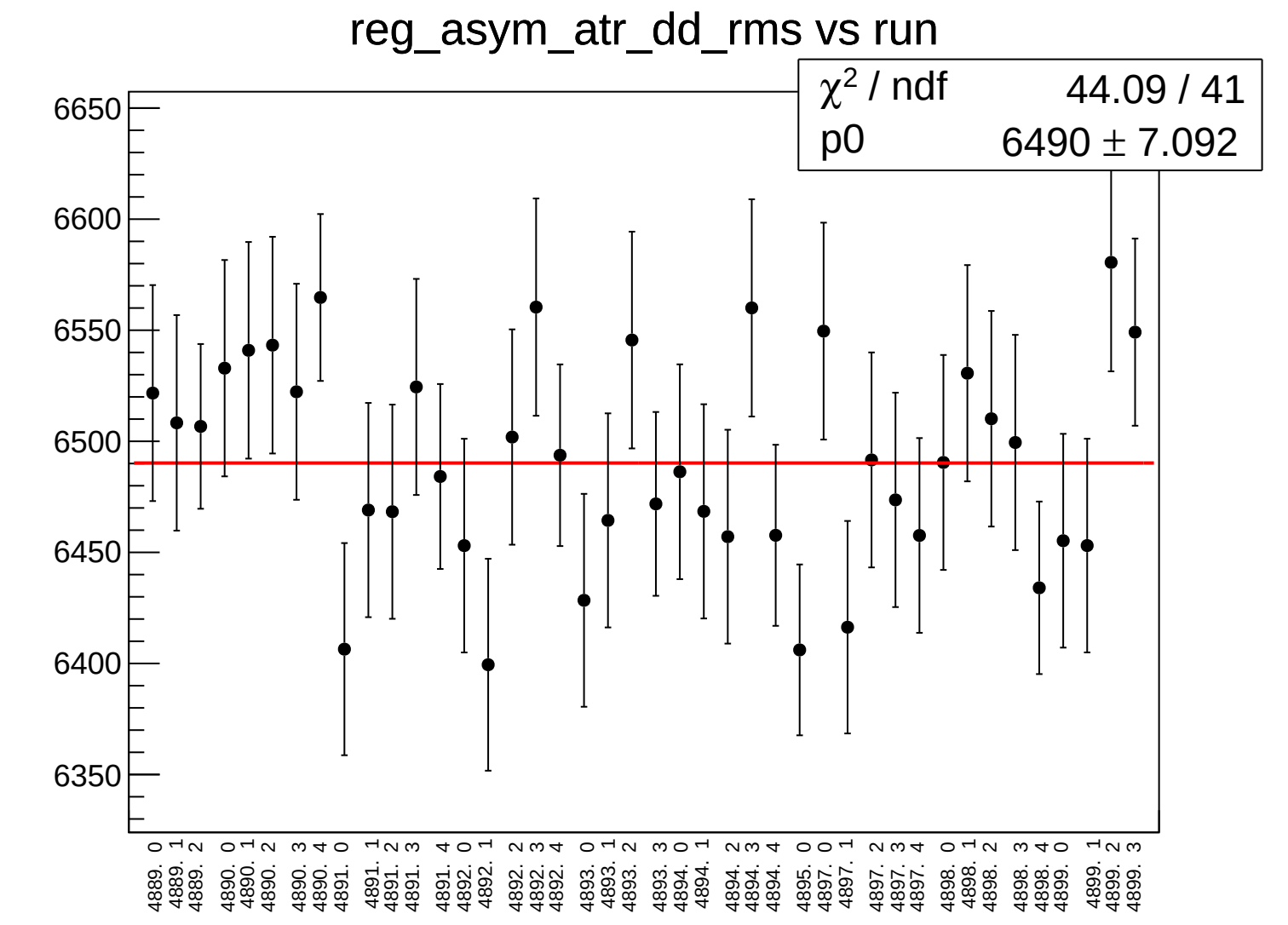

asym_atr_avg_mean vs run
×10^3
χ² / ndf 41.06 / 41
p0 2.94e+04 ± 1.008e+04
pull
Entries 42
Mean 294
Std Dev 284.1

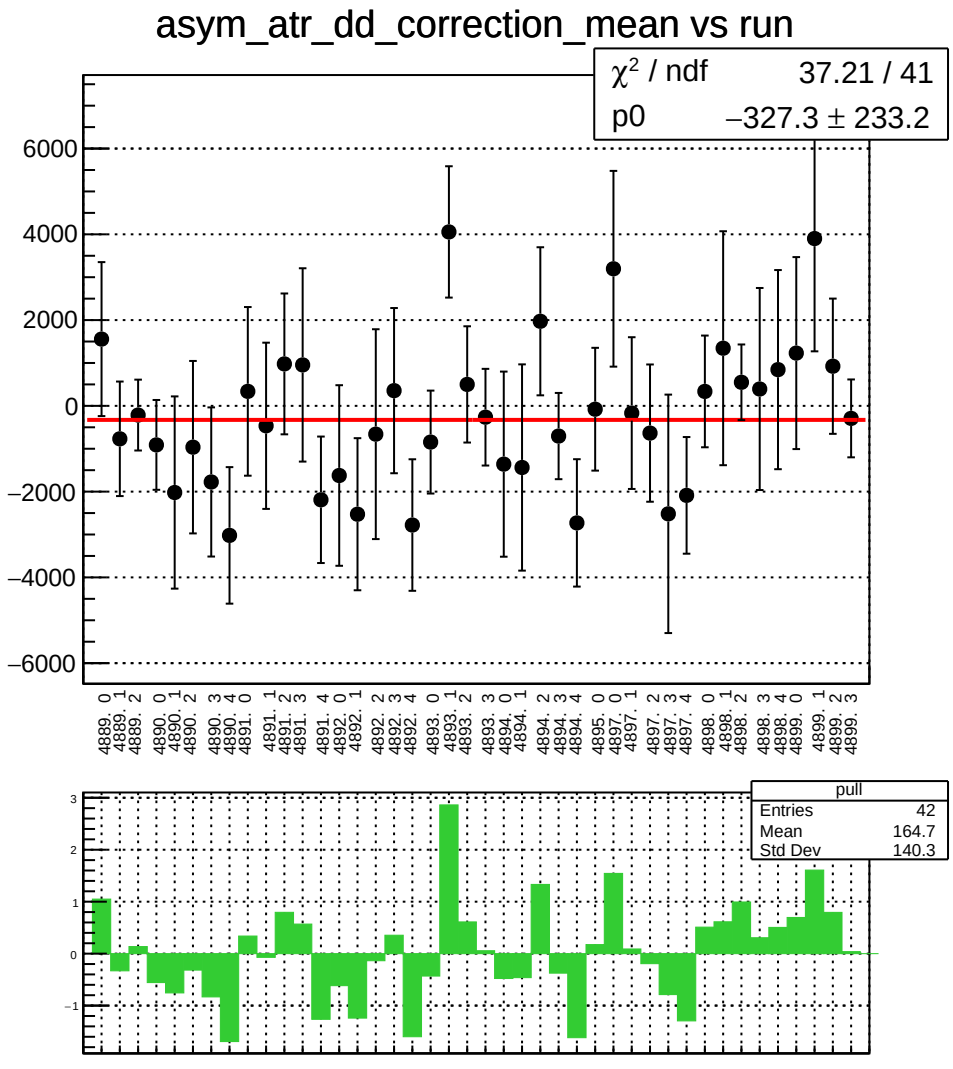

pull1D
Entries 42
Mean 0.006187
Std Dev 0.9887

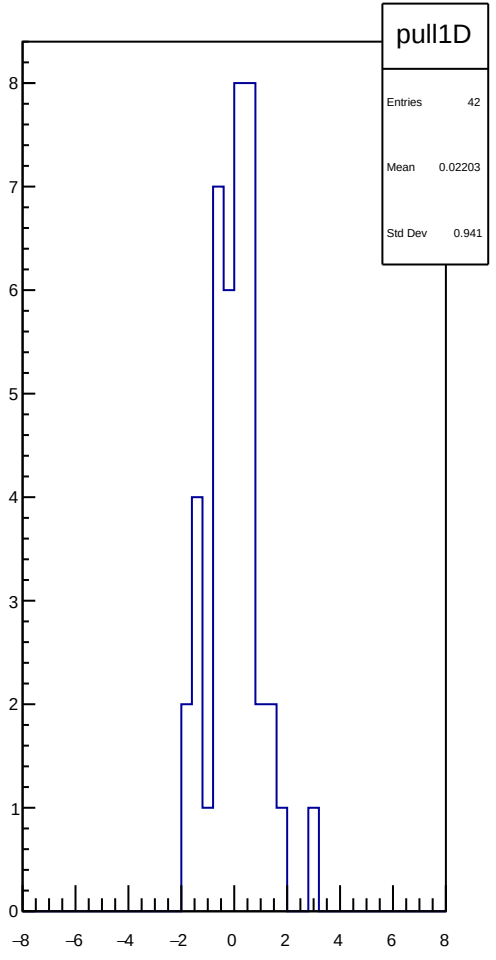

asym_atr_avg_rms vs run
χ² / ndf 29.44 / 41
p0 6521 ± 7.126
6650
6600
6550
6500
6450
6400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

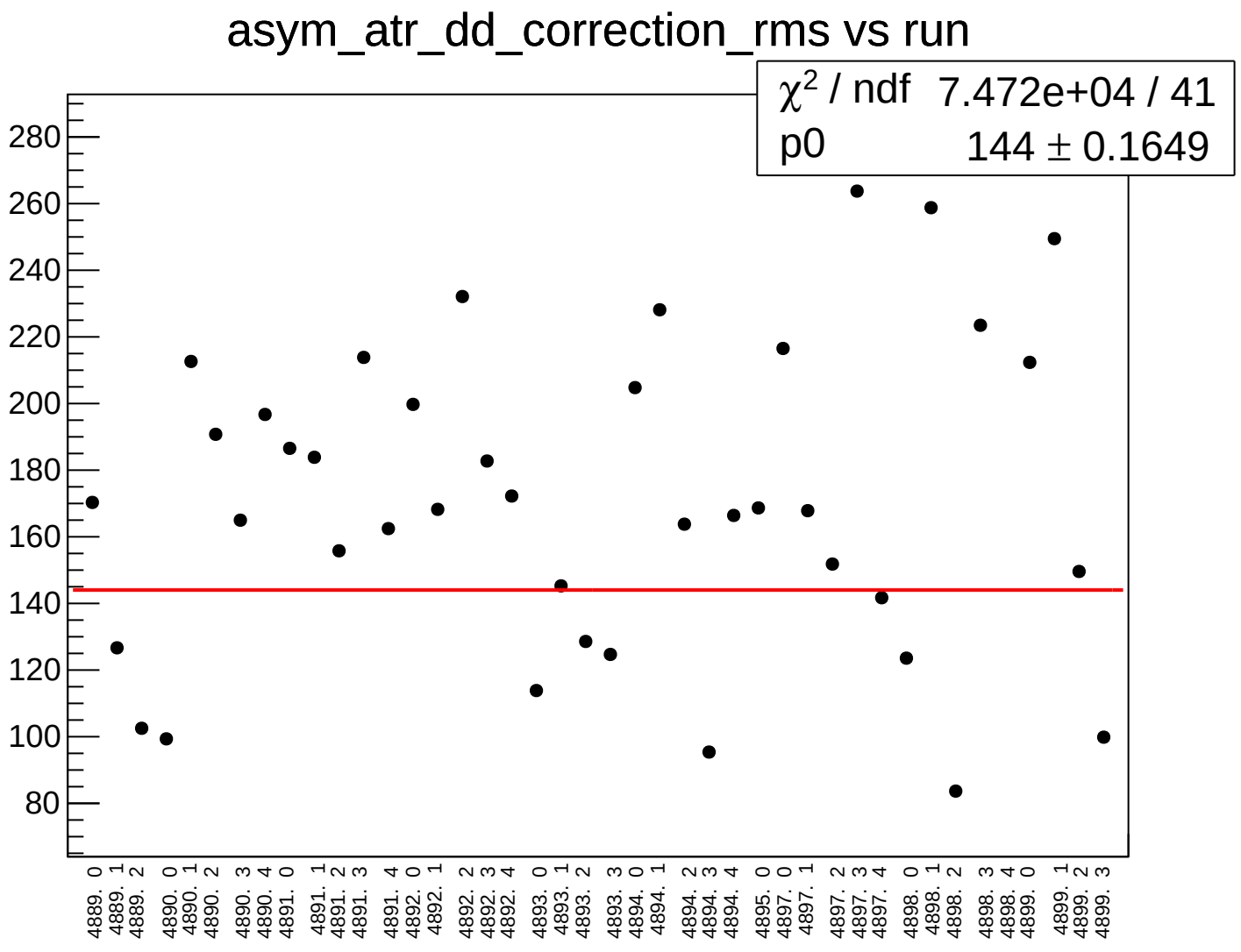

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 39.79 / 41
p0 3589 ± 1.003e+04
pull
Entries 42
Mean 442.6
Std Dev 427.3

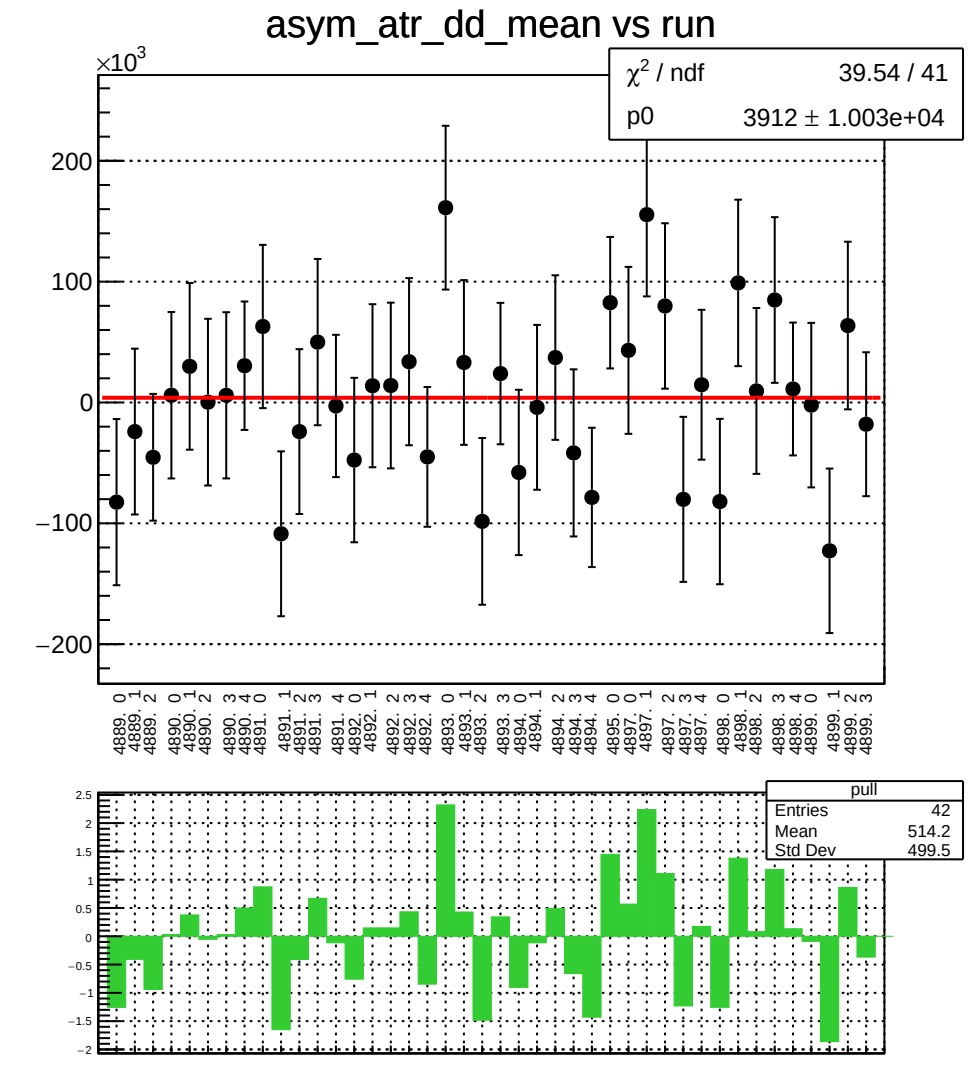

pull1D
Entries 42
Mean 0.003829
Std Dev 0.9733

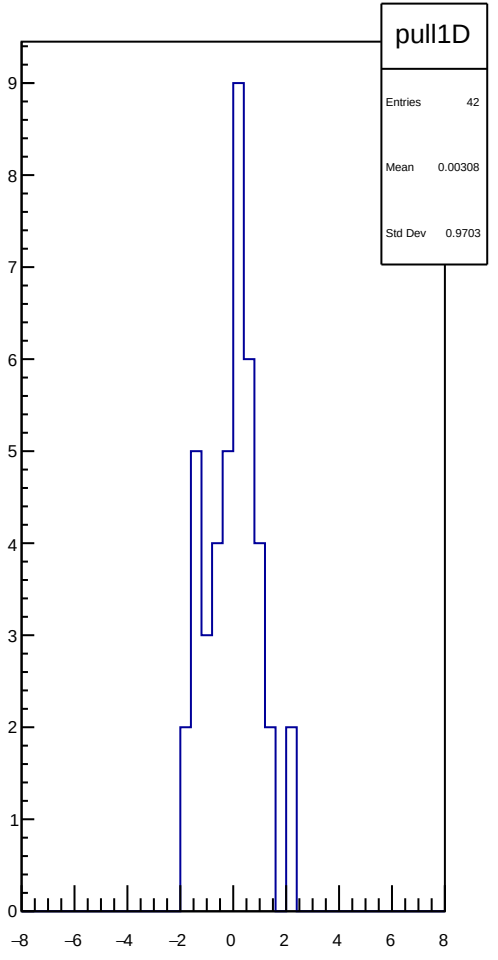

reg_asym_atr_dd_rms vs run
χ² / ndf 44.09 / 41
p0 6490 ± 7.092
6650
6600
6550
6500
6450
6400
6350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

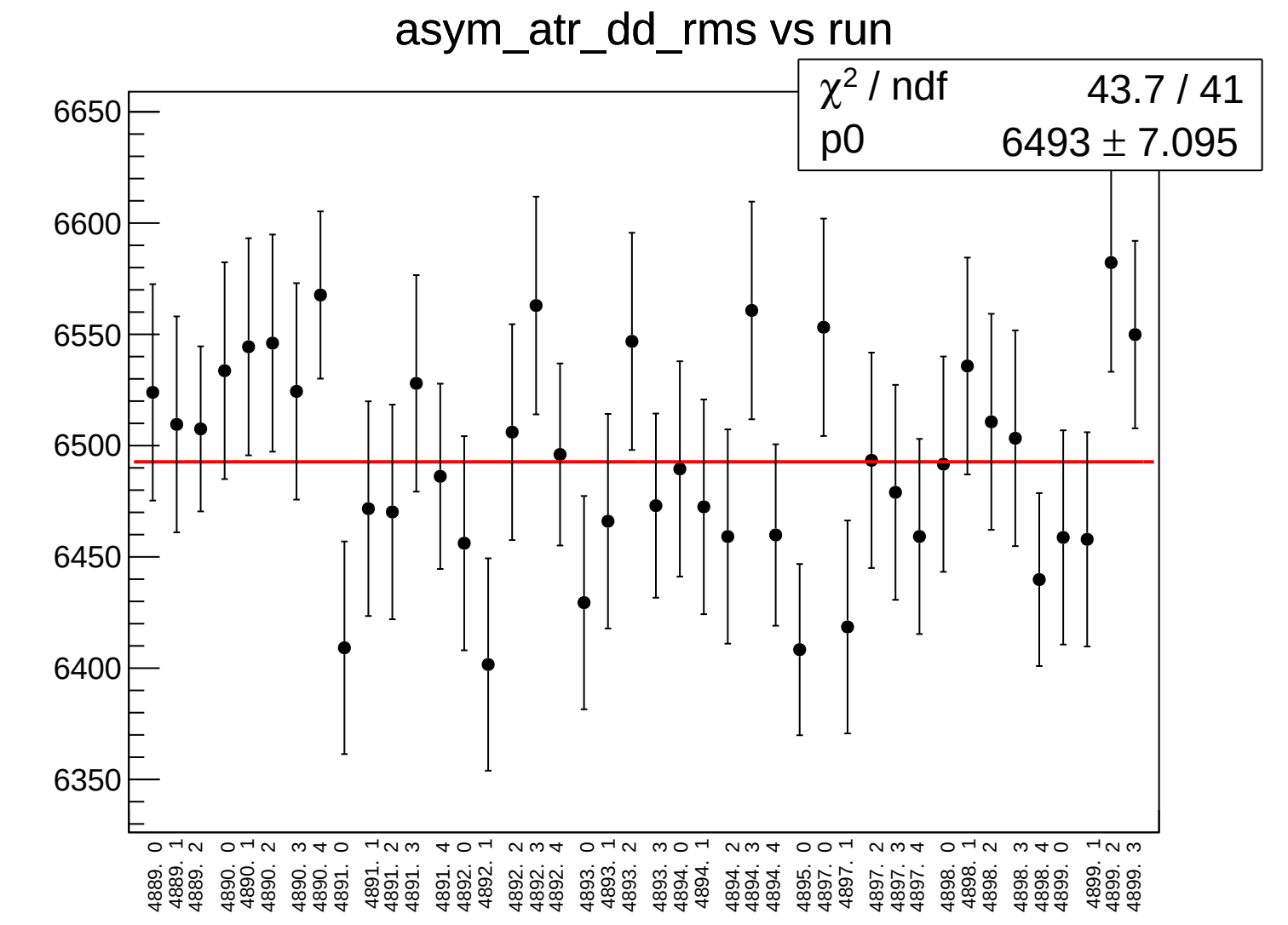

asym_atr_dd_correction_mean vs run
χ² / ndf 37.21 / 41
p0 −327.3 ± 233.2
6000
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 164.7
Std Dev 140.3
3
2
1
0
−1

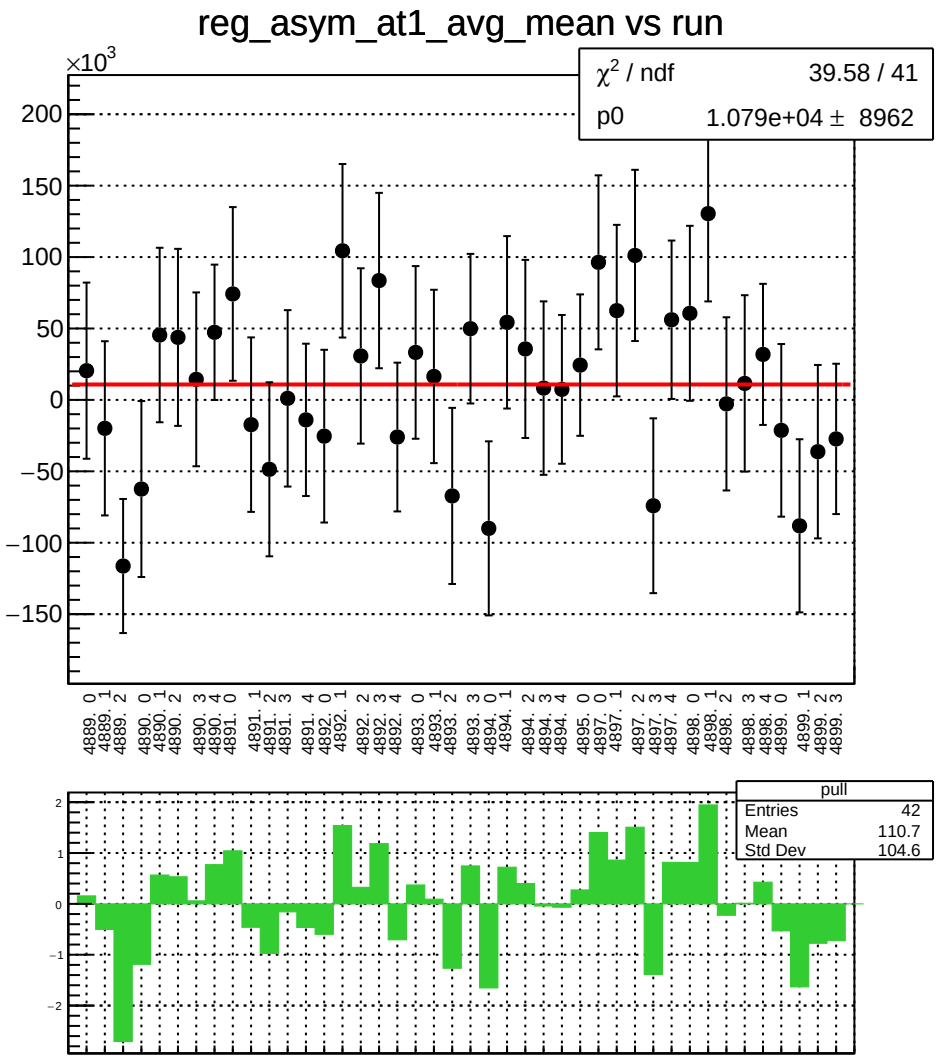

pull1D
Entries 42
Mean 0.02203
Std Dev 0.941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

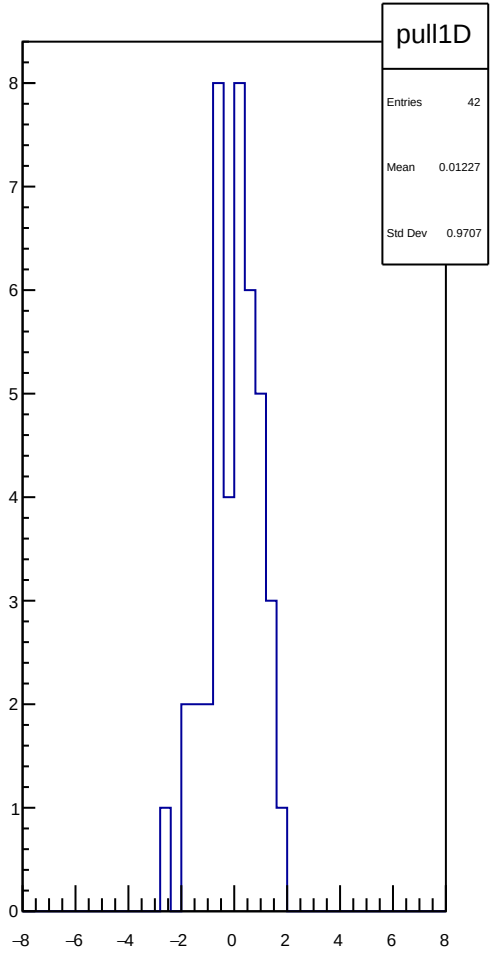

asym_atr_dd_correction_rms vs run
χ² / ndf 7.472e+04 / 41
p0 144 ± 0.1649
280
260
240
220
200
180
160
140
120
100
80
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

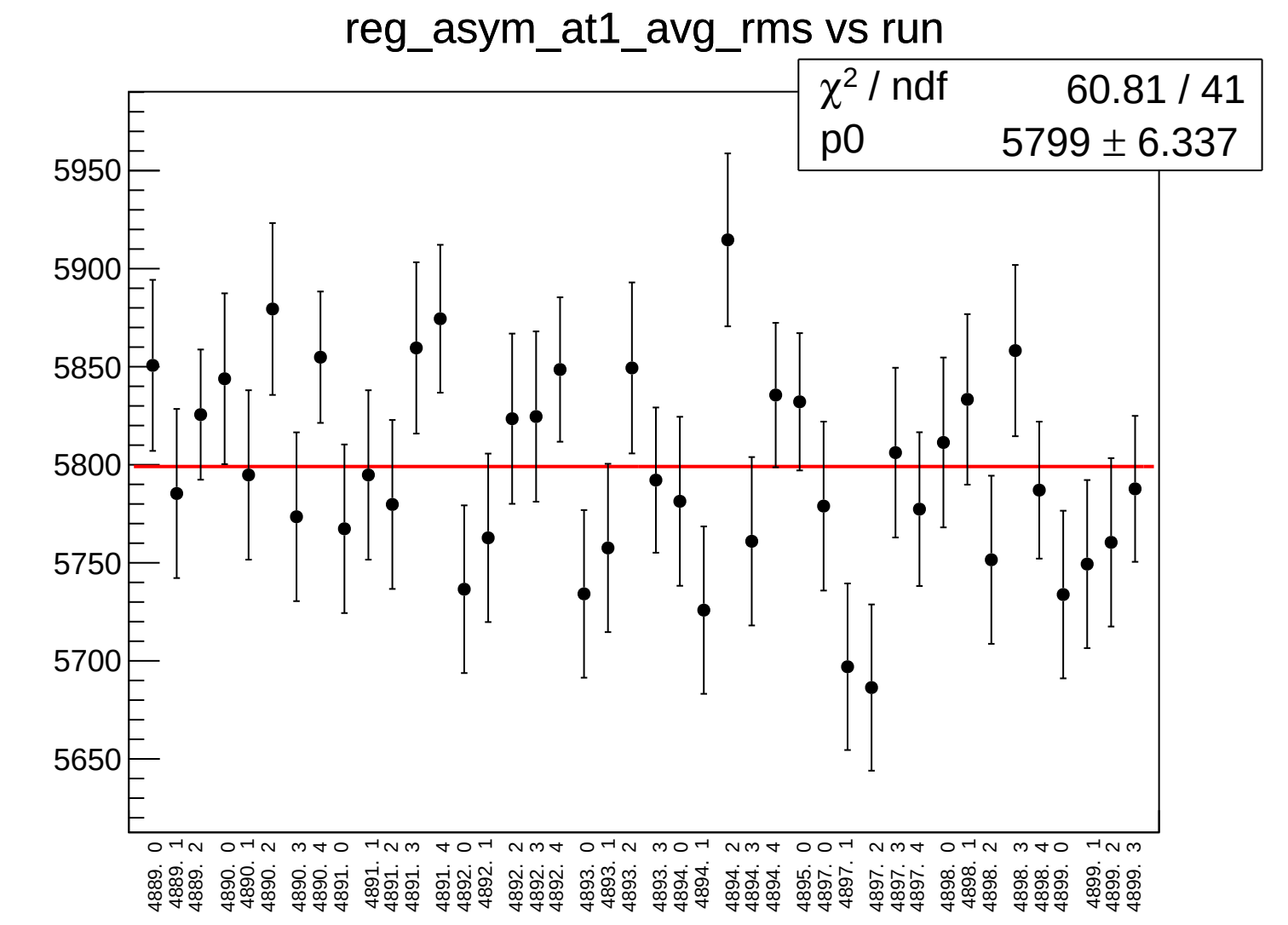

asym_atr_dd_mean vs run
×10^3
χ² / ndf 39.54 / 41
p0 3912 ± 1.003e+04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 514.2
Std Dev 499.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

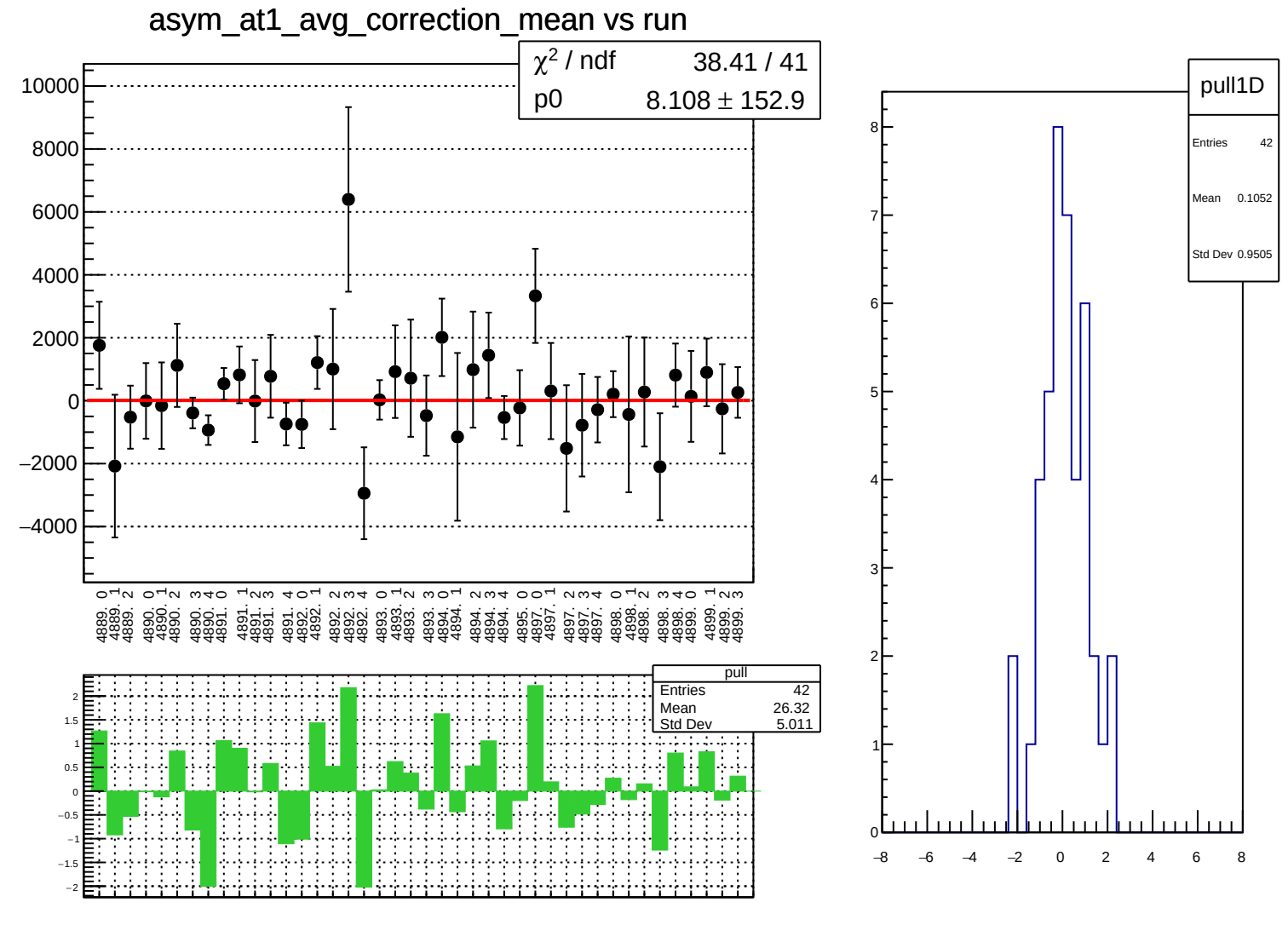

pull1D
Entries 42
Mean 0.00308
Std Dev 0.9703
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

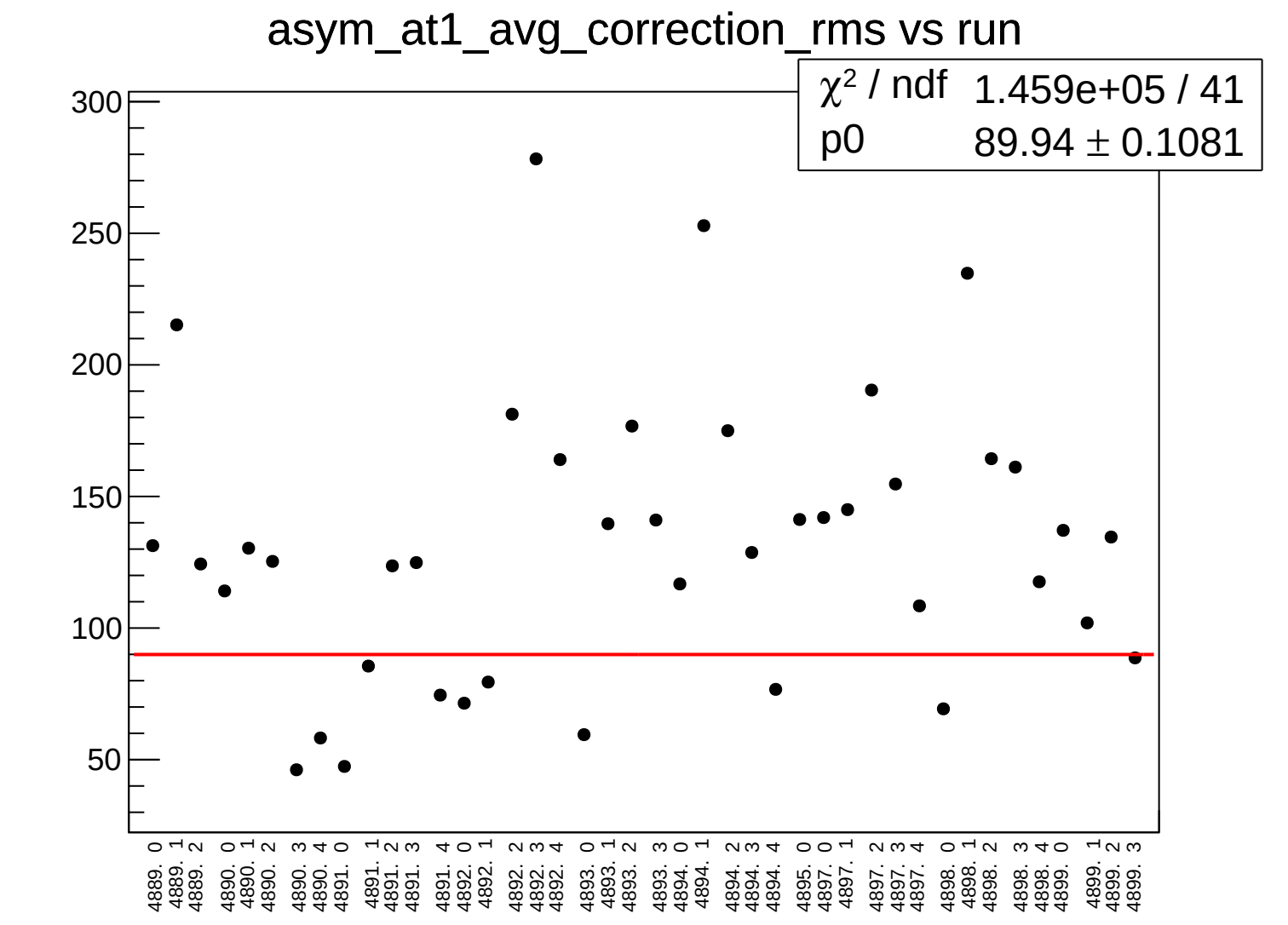

asym_atr_dd_rms vs run
χ² / ndf 43.7 / 41
p0 6493 ± 7.095
6650
6600
6550
6500
6450
6400
6350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

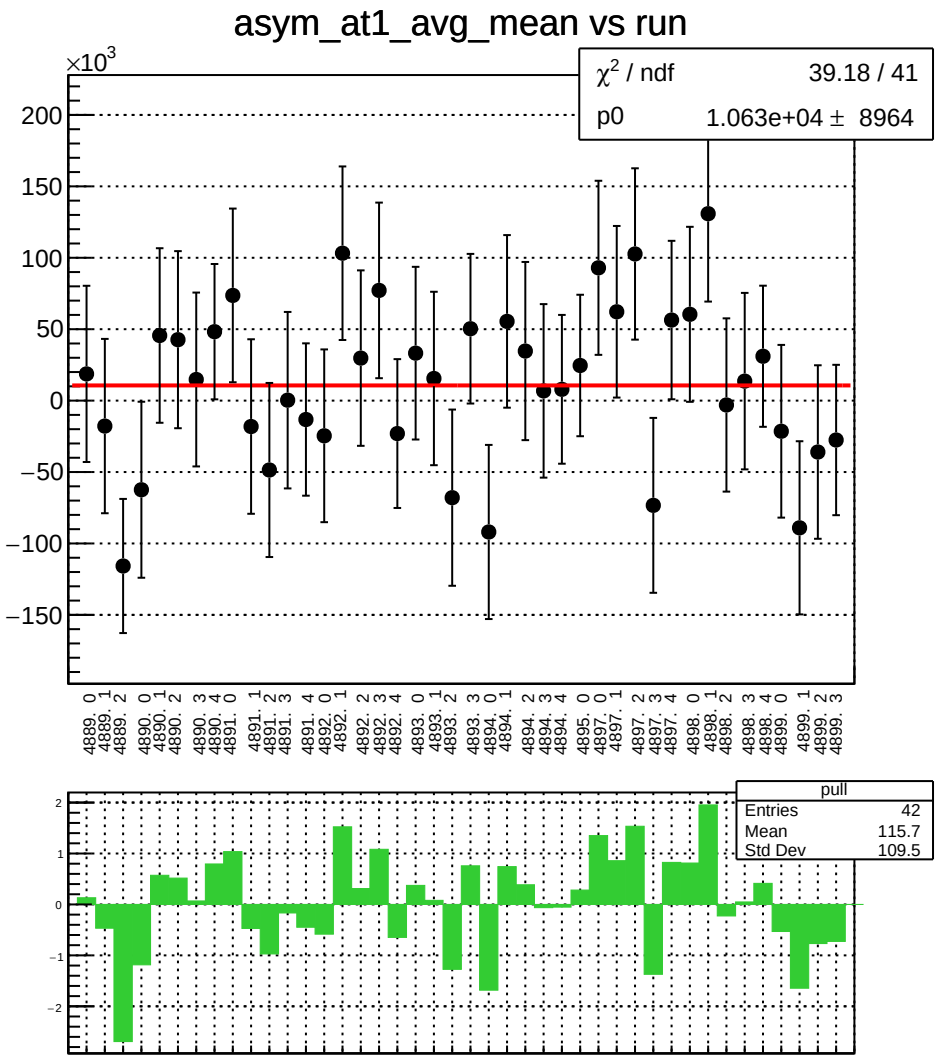

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 39.58 / 41
p0 1.079e+04 ± 8962
200
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 110.7
Std Dev 104.6
2
1
0
−1
−2

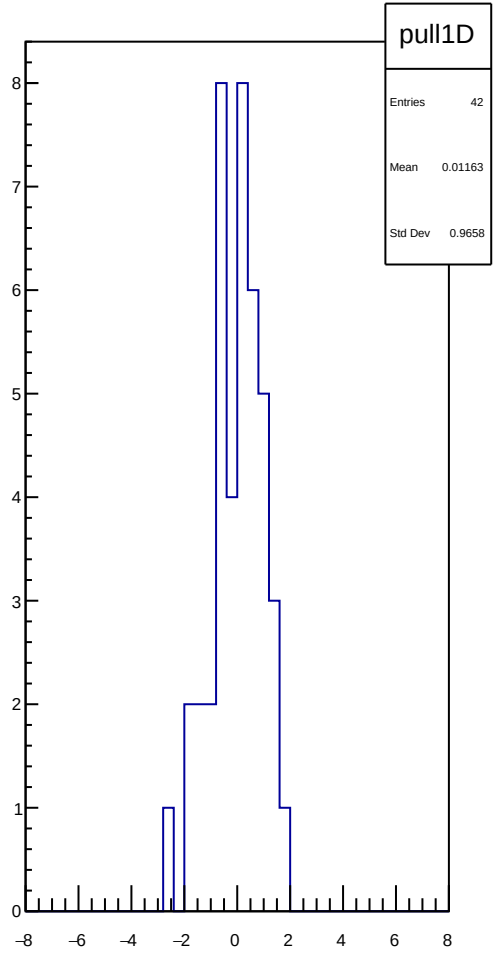

pull1D
Entries 42
Mean 0.01227
Std Dev 0.9707
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

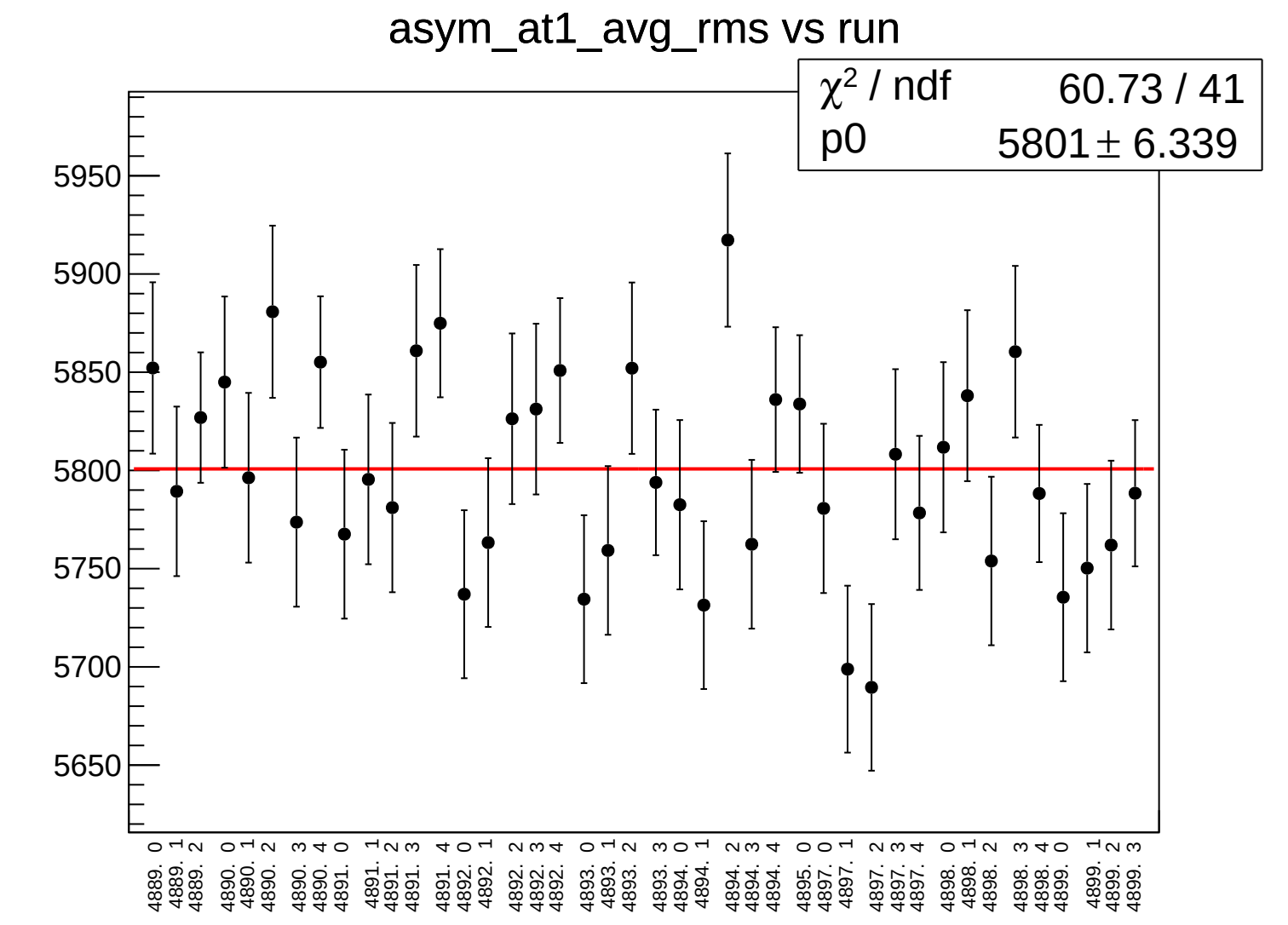

reg_asym_at1_avg_rms vs run
χ² / ndf 60.81 / 41
p0 5799 ± 6.337
5950
5900
5850
5800
5750
5700
5650
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

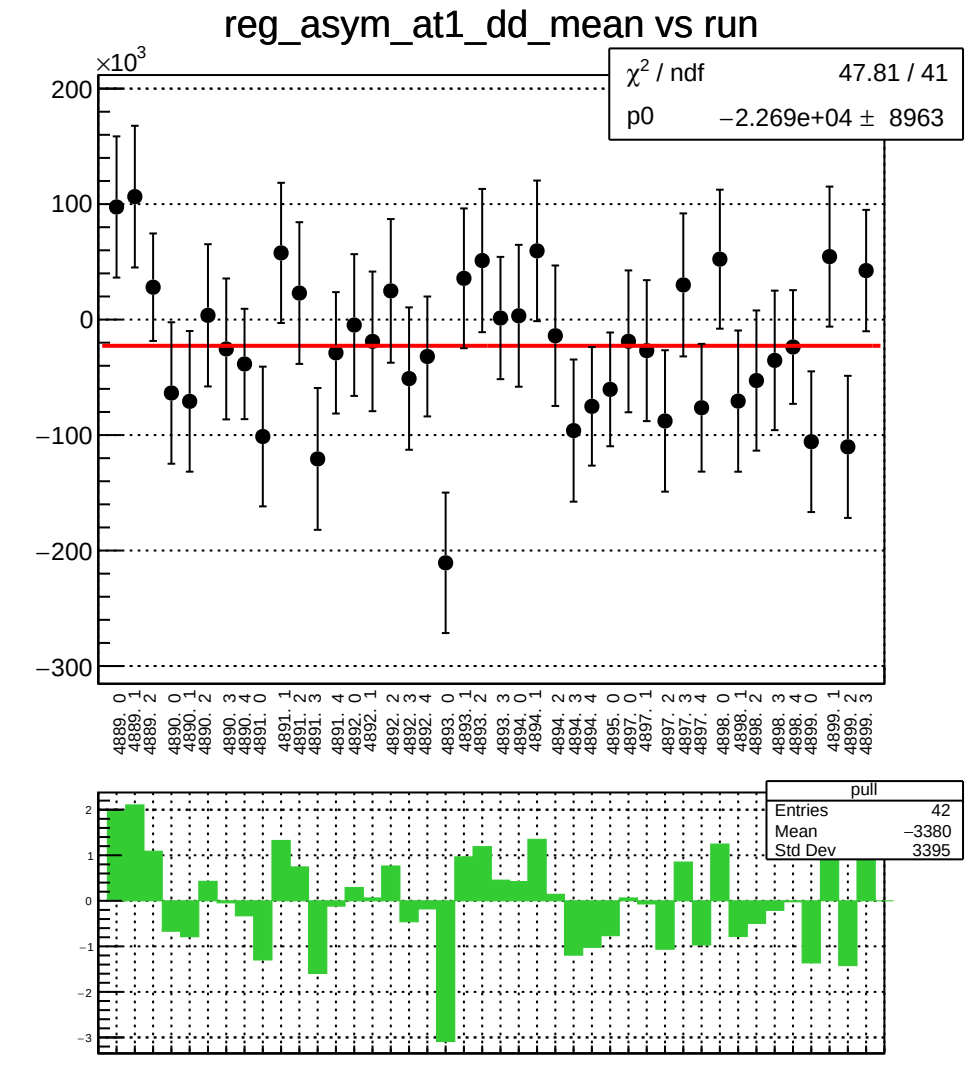

asym_at1_avg_correction_mean vs run
χ² / ndf 38.41 / 41
p0 8.108 ± 152.9
pull
Entries 42
Mean 26.32
Std Dev 5.011
pull1D
Entries 42
Mean 0.1052
Std Dev 0.9505

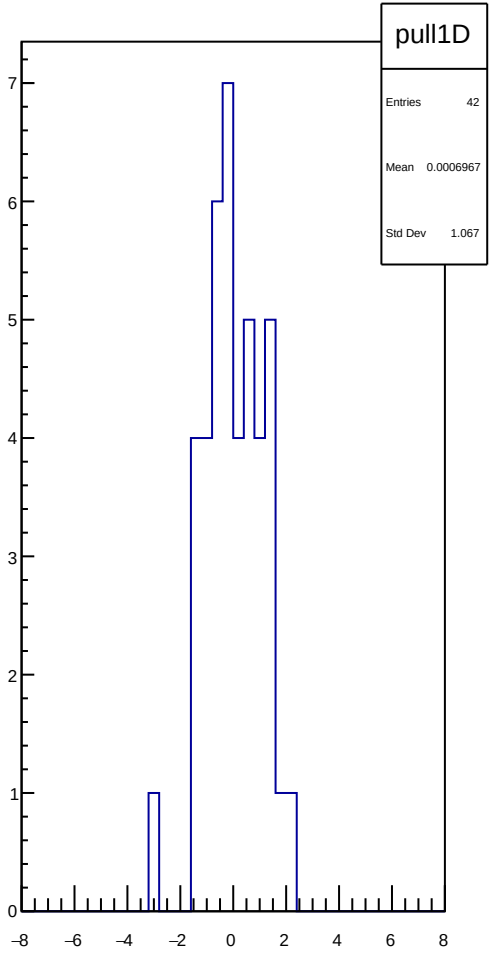

asym_at1_avg_correction_rms vs run
χ² / ndf 1.459e+05 / 41
p0 89.94 ± 0.1081
300
250
200
150
100
50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

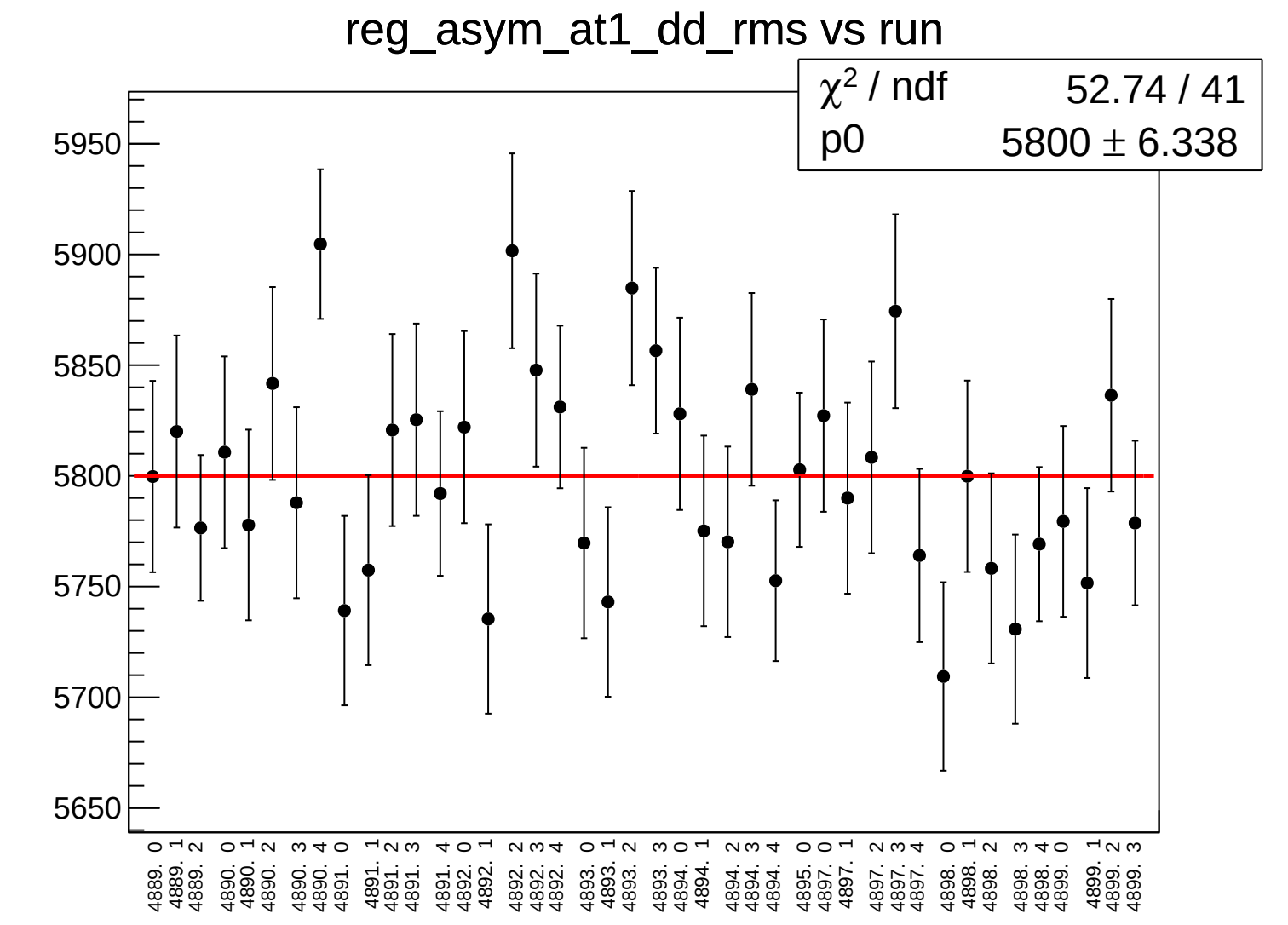

asym_at1_avg_mean vs run
×10^3
χ² / ndf 39.18 / 41
p0 1.063e+04 ± 8964
200
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 115.7
Std Dev 109.5
2
1
0
−1
−2

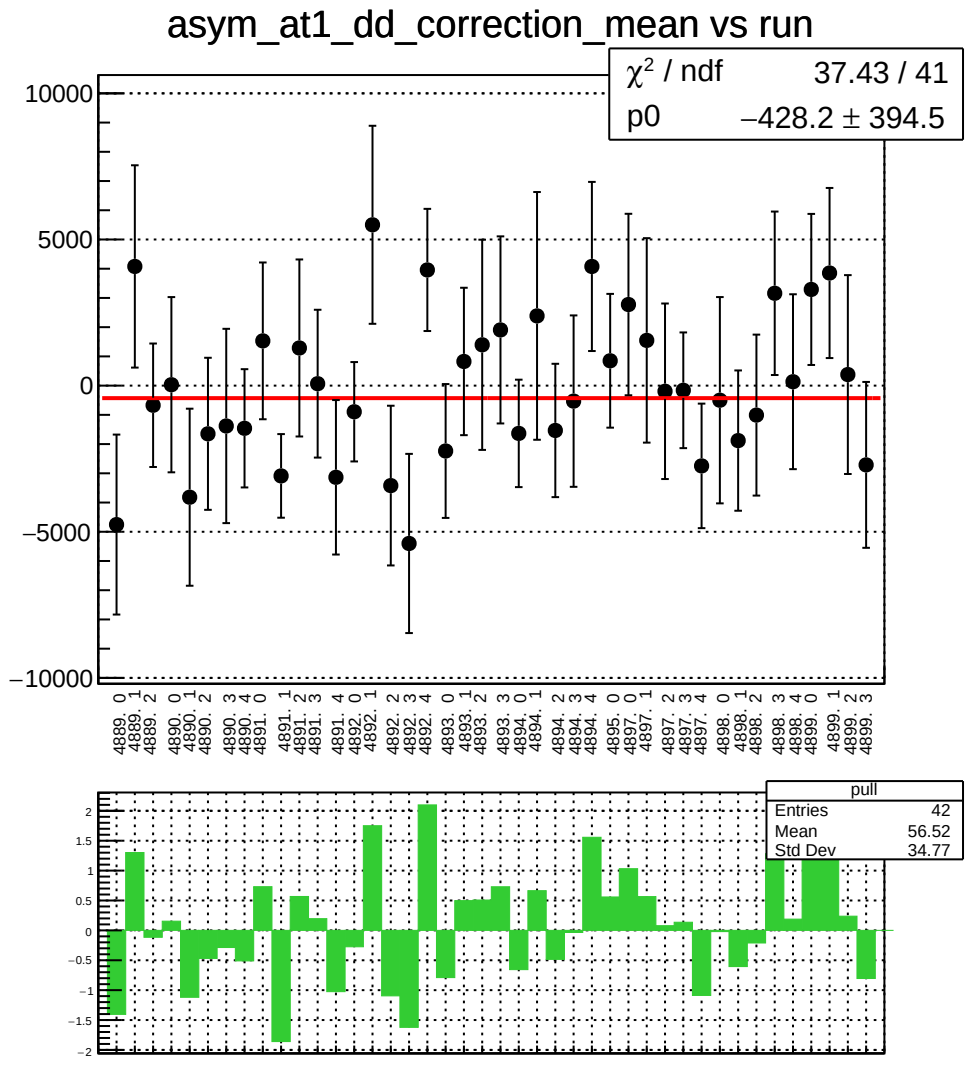

pull1D
Entries 42
Mean 0.01163
Std Dev 0.9658
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

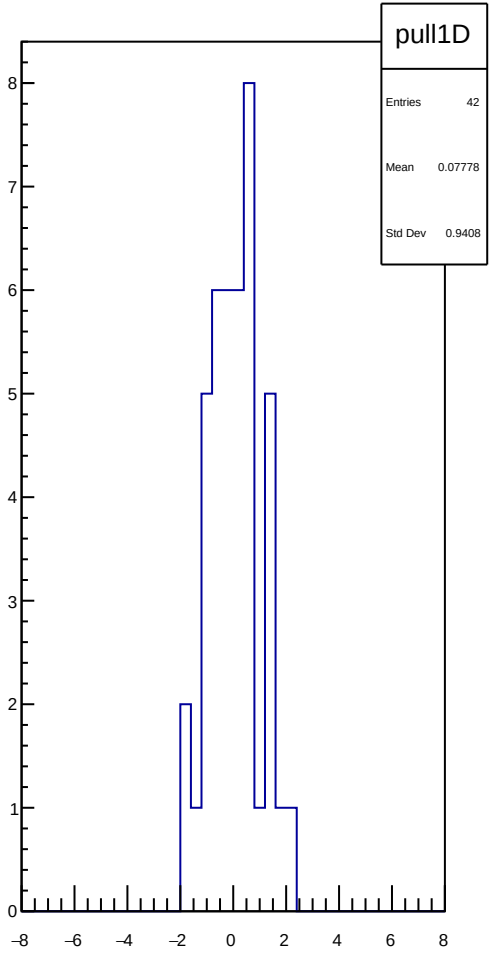

asym_at1_avg_rms vs run
χ² / ndf 60.73 / 41
p0 5801 ± 6.339
5950
5900
5850
5800
5750
5700
5650
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

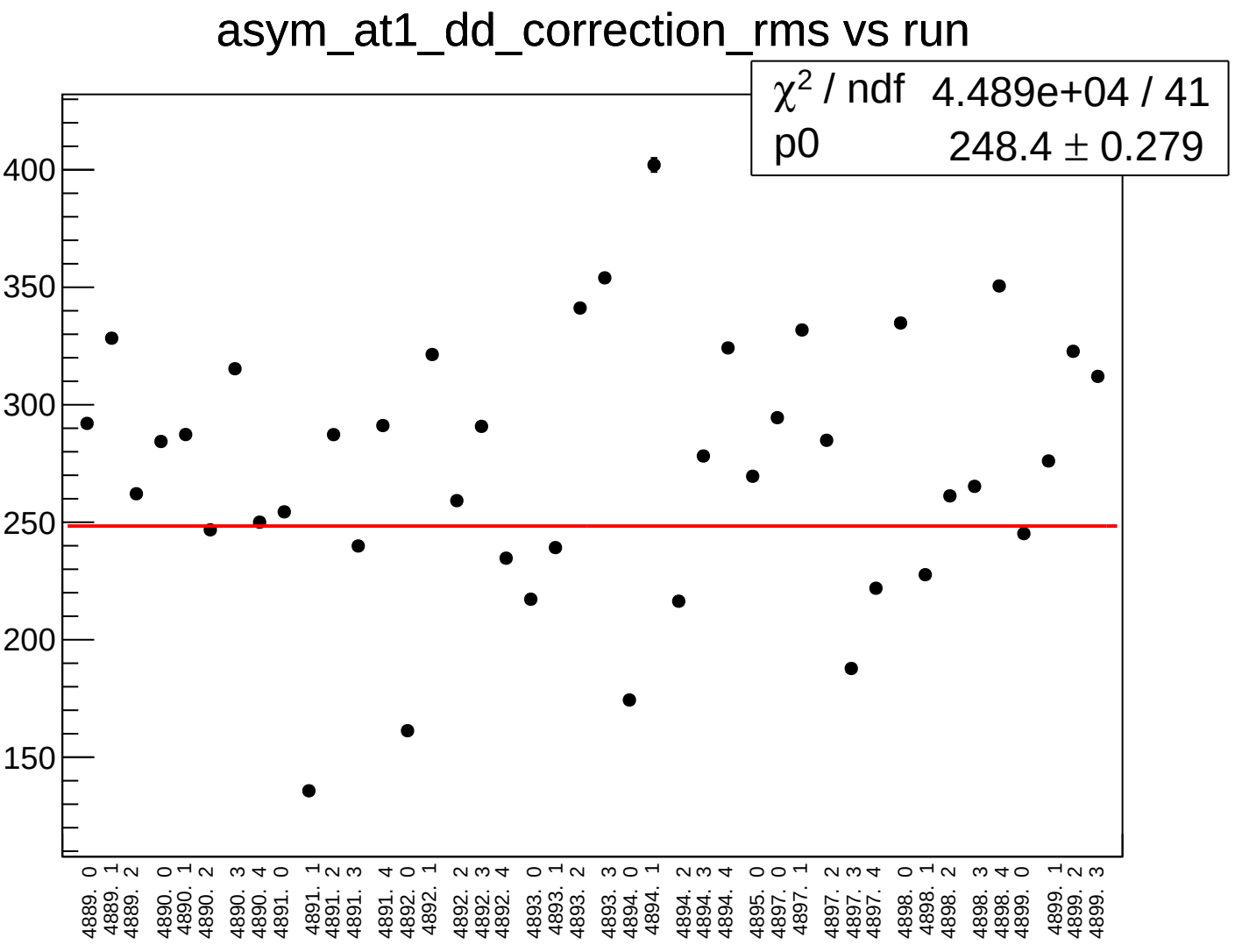

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 47.81 / 41
p0 −2.269e+04 ± 8963
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −3380
Std Dev 3395
2
1
0
−1
−2
−3

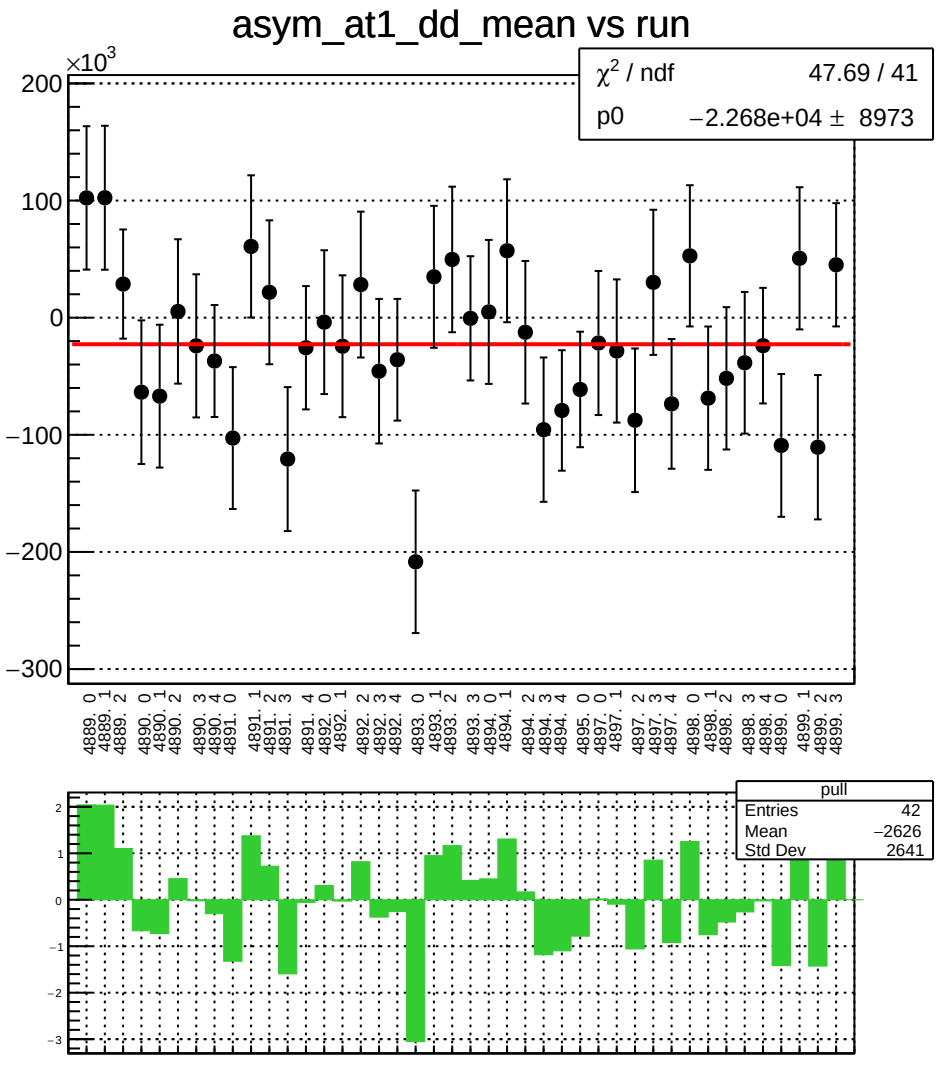

pull1D
Entries 42
Mean 0.0006967
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

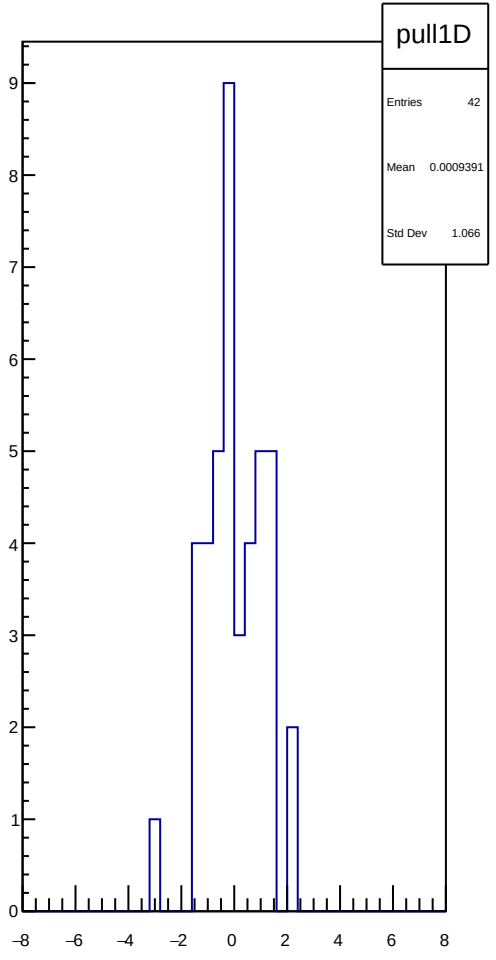

reg_asym_at1_dd_rms vs run
χ² / ndf 52.74 / 41
p0 5800 ± 6.338
5950
5900
5850
5800
5750
5700
5650
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

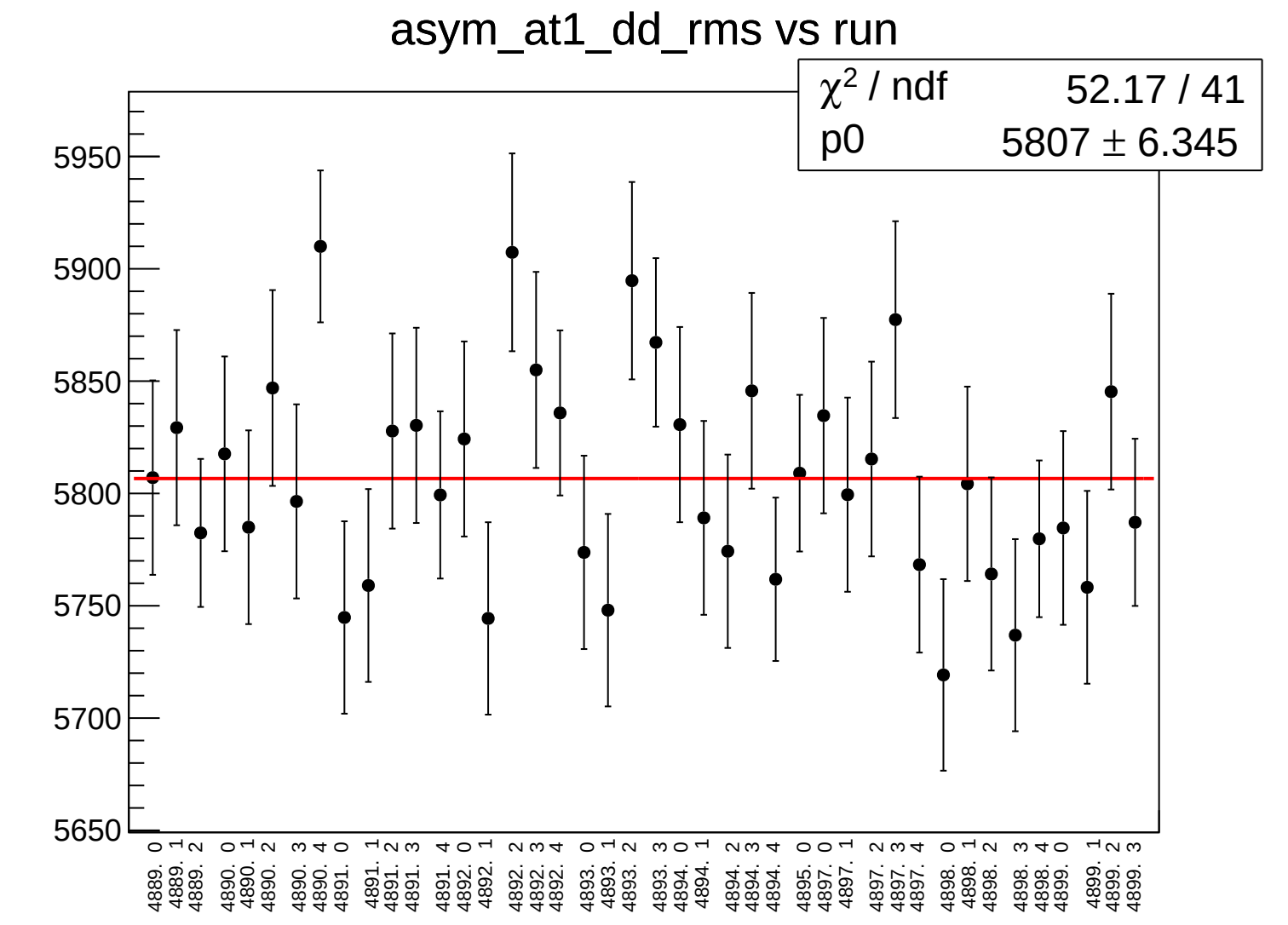

asym_at1_dd_correction_mean vs run
χ² / ndf 37.43 / 41
p0 −428.2 ± 394.5
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 56.52
Std Dev 34.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

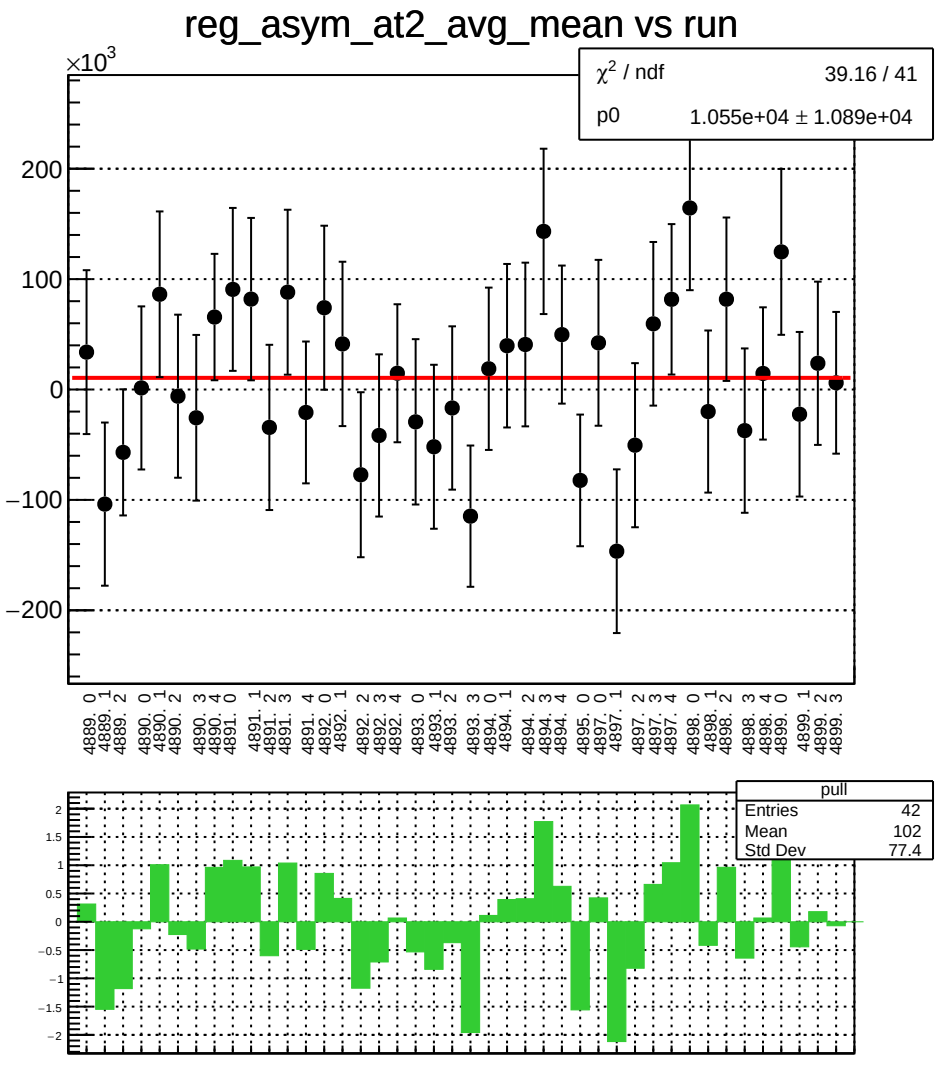

pull1D
Entries 42
Mean 0.07778
Std Dev 0.9408
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

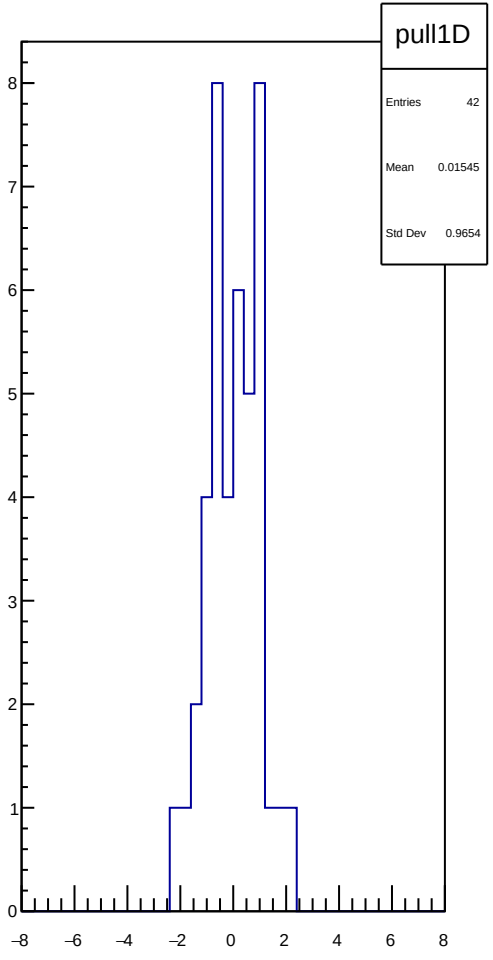

asym_at1_dd_correction_rms vs run
χ² / ndf 4.489e+04 / 41
p0 248.4 ± 0.279
400
350
300
250
200
150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

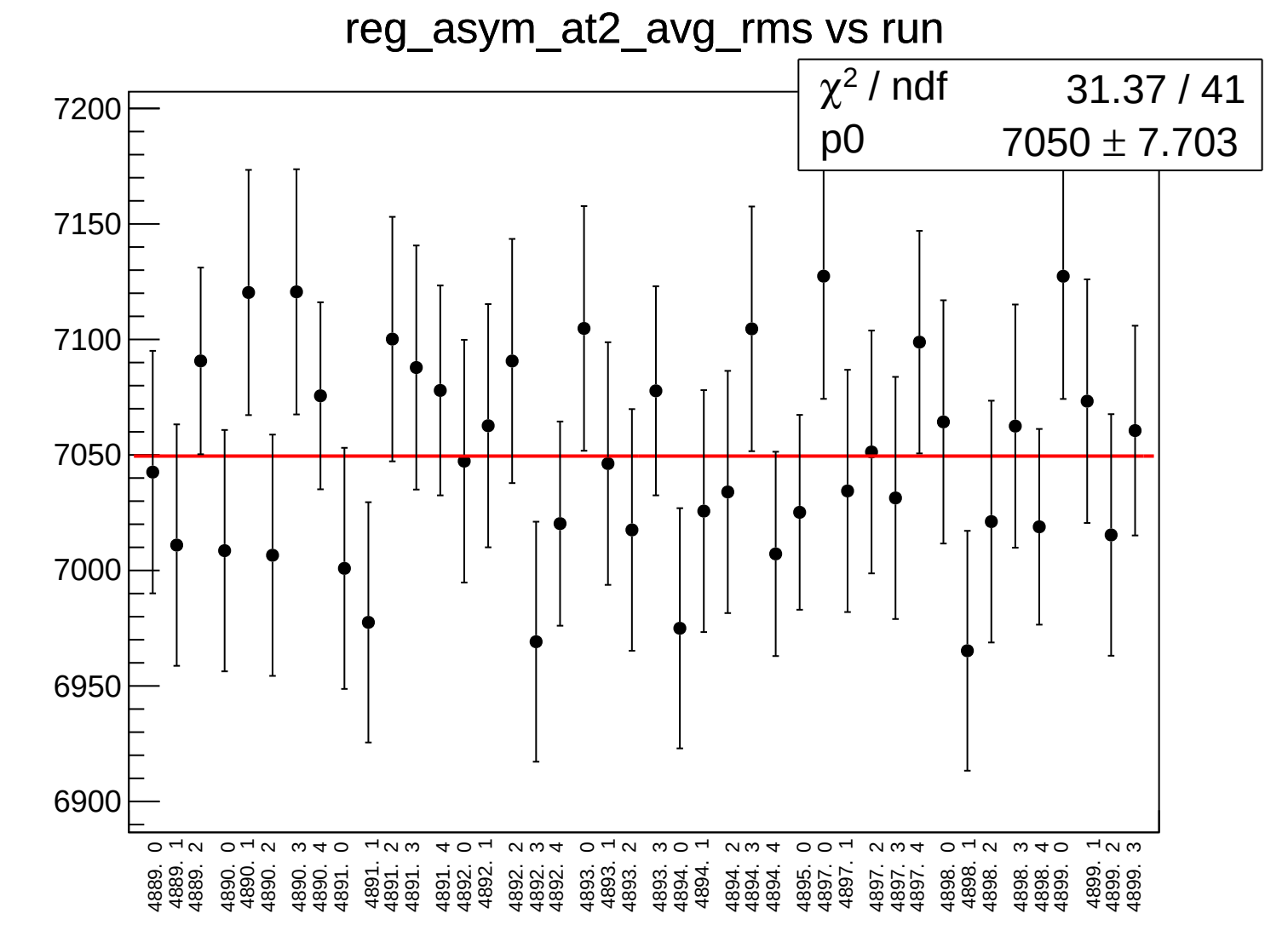

asym_at1_dd_mean vs run
×10^3
χ² / ndf 47.69 / 41
p0 −2.268e+04 ± 8973
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −2626
Std Dev 2641
2
1
0
−1
−2
−3

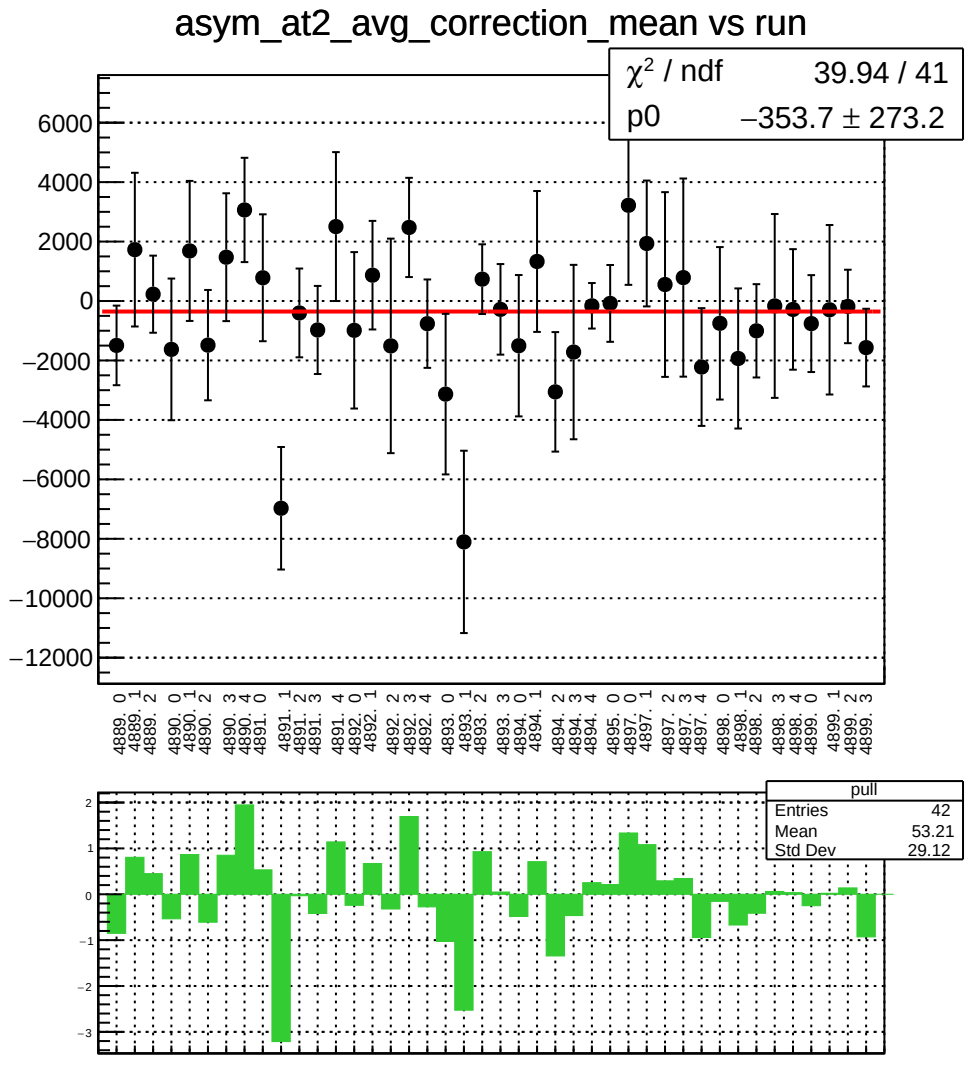

pull1D
Entries 42
Mean 0.0009391
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

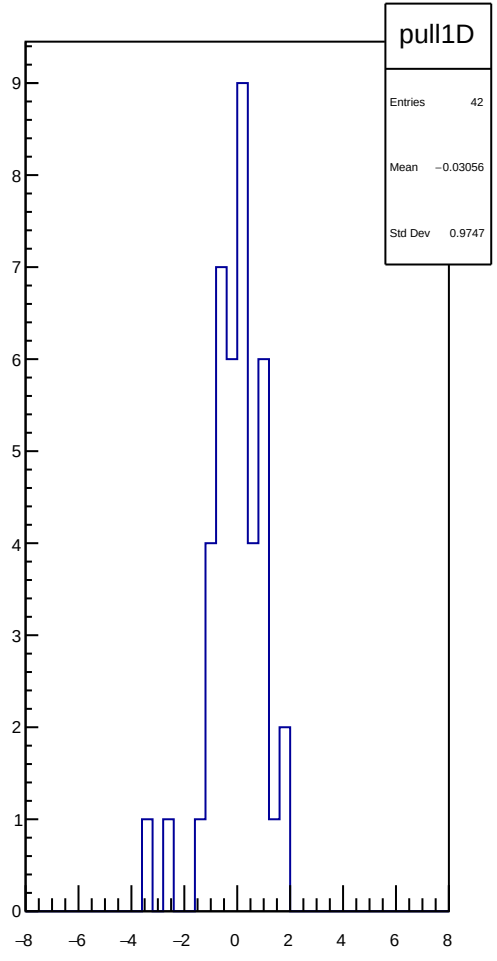

asym_at1_dd_rms vs run
χ² / ndf 52.17 / 41
p0 5807 ± 6.345
5950
5900
5850
5800
5750
5700
5650
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

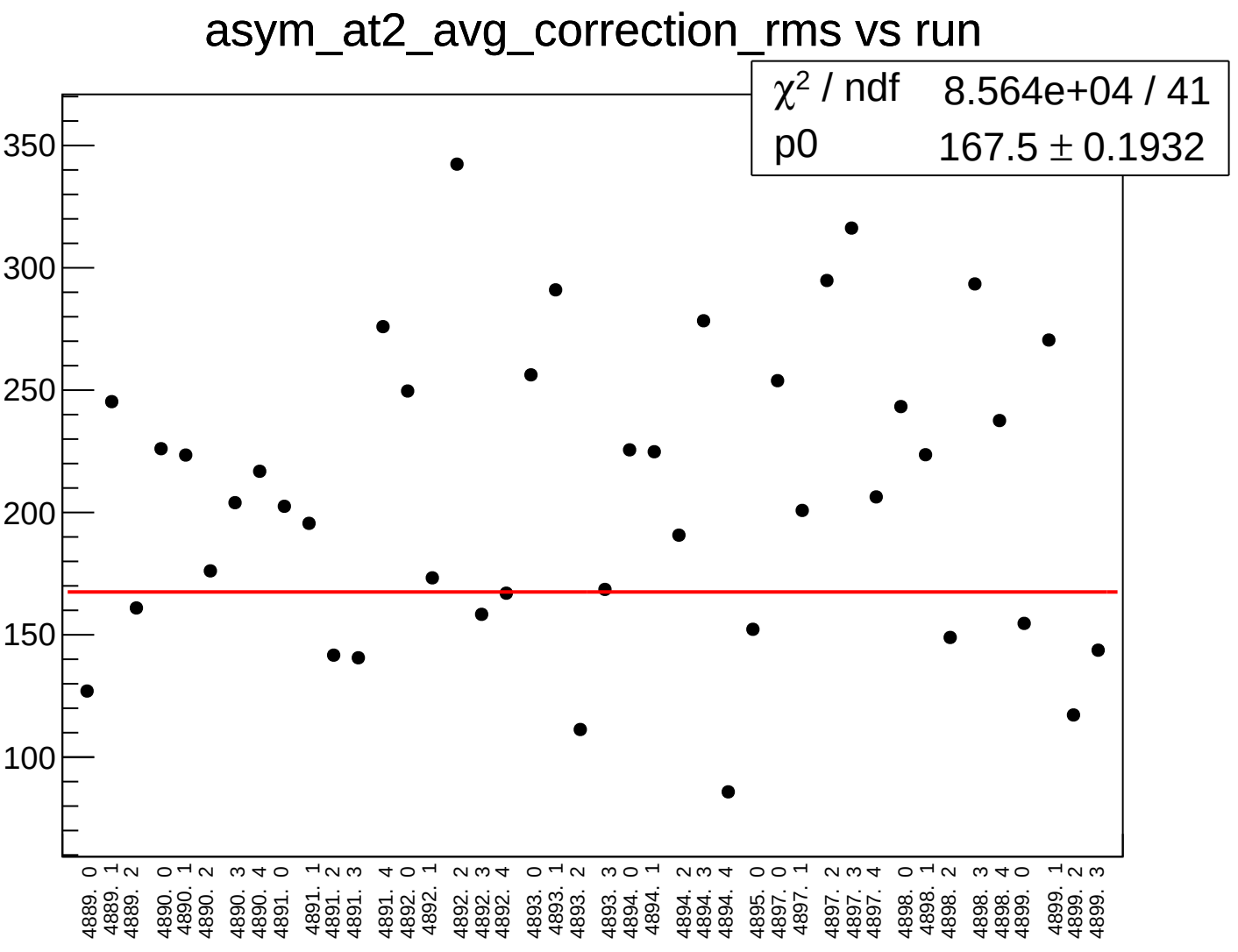

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 39.16 / 41
p0 1.055e+04 ± 1.089e+04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 102
Std Dev 77.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

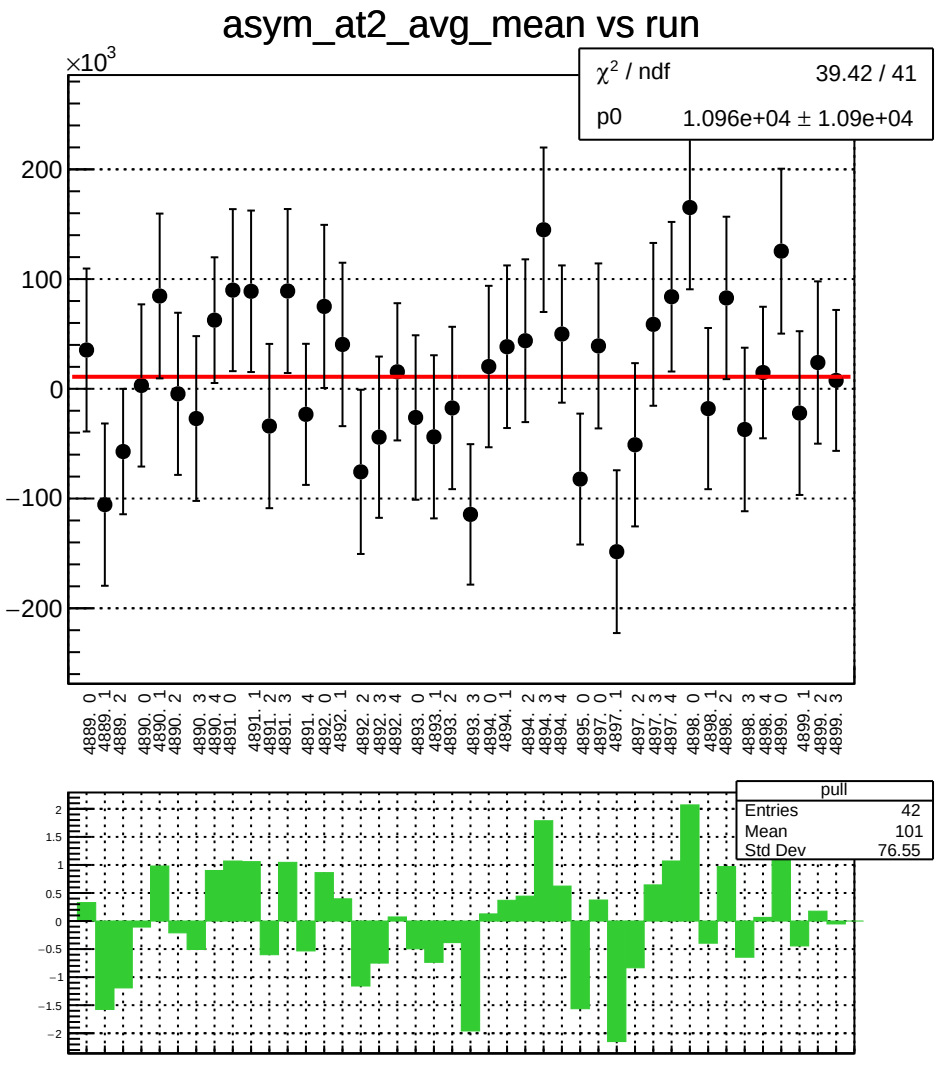

pull1D
Entries 42
Mean 0.01545
Std Dev 0.9654
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

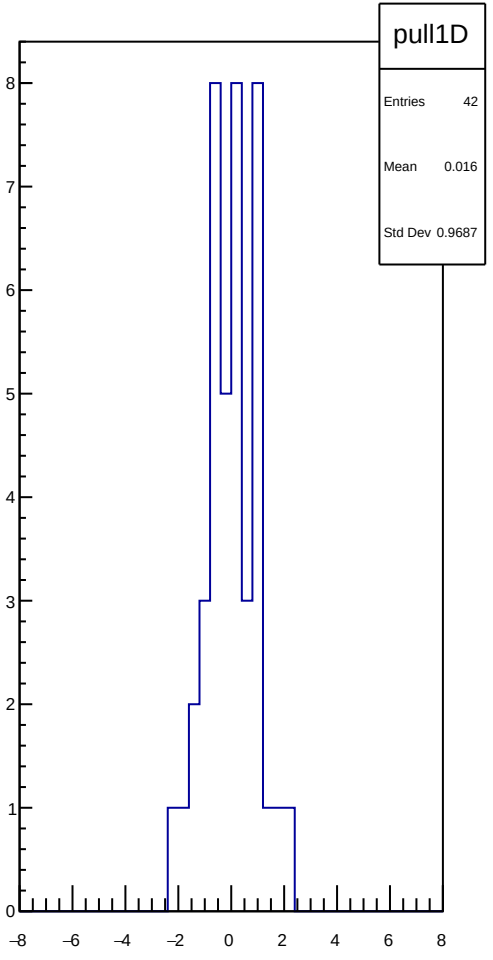

reg_asym_at2_avg_rms vs run
χ² / ndf 31.37 / 41
p0 7050 ± 7.703
7200
7150
7100
7050
7000
6950
6900
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

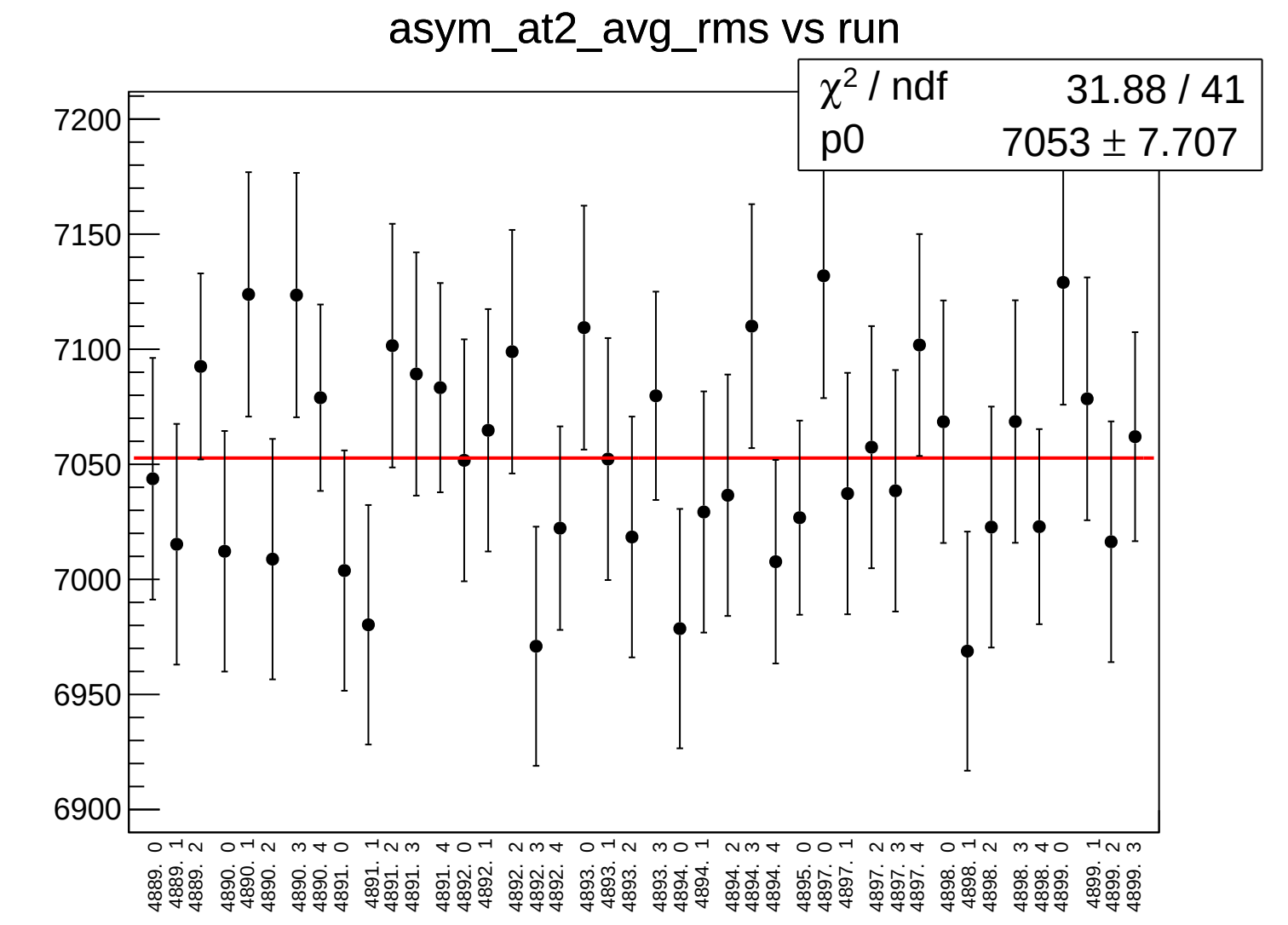

asym_at2_avg_correction_mean vs run
χ² / ndf 39.94 / 41
p0 −353.7 ± 273.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 53.21
Std Dev 29.12
2
1
0
−1
−2
−3

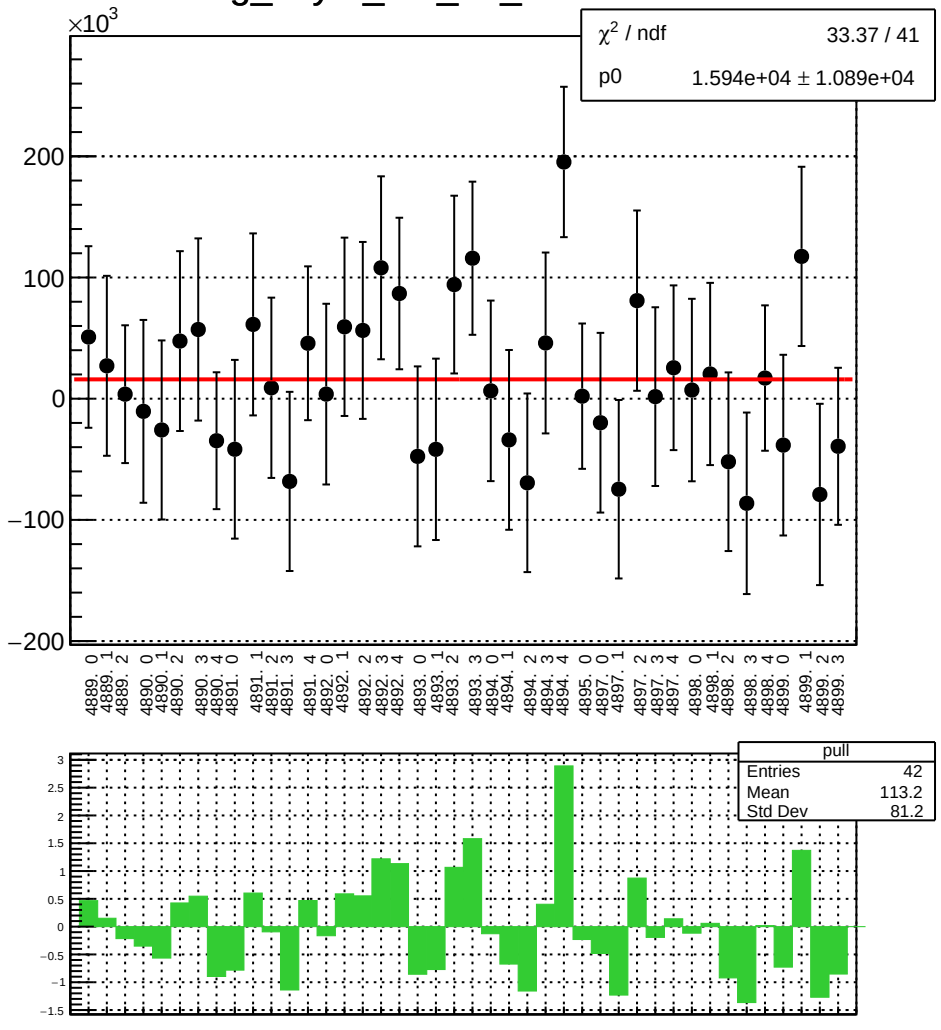

pull1D
Entries 42
Mean −0.03056
Std Dev 0.9747
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

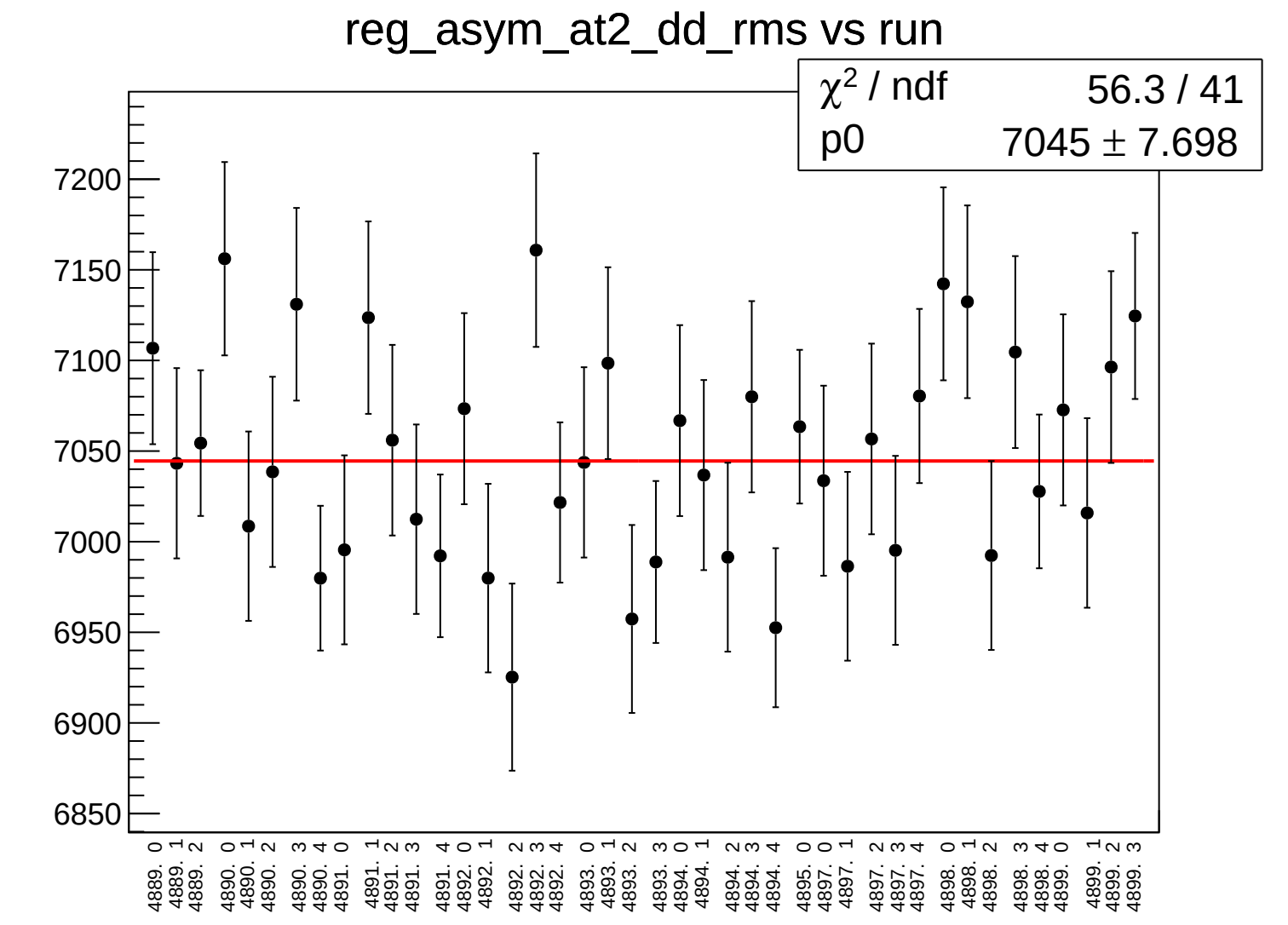

asym_at2_avg_correction_rms vs run
χ² / ndf 8.564e+04 / 41
p0 167.5 ± 0.1932
350
300
250
200
150
100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

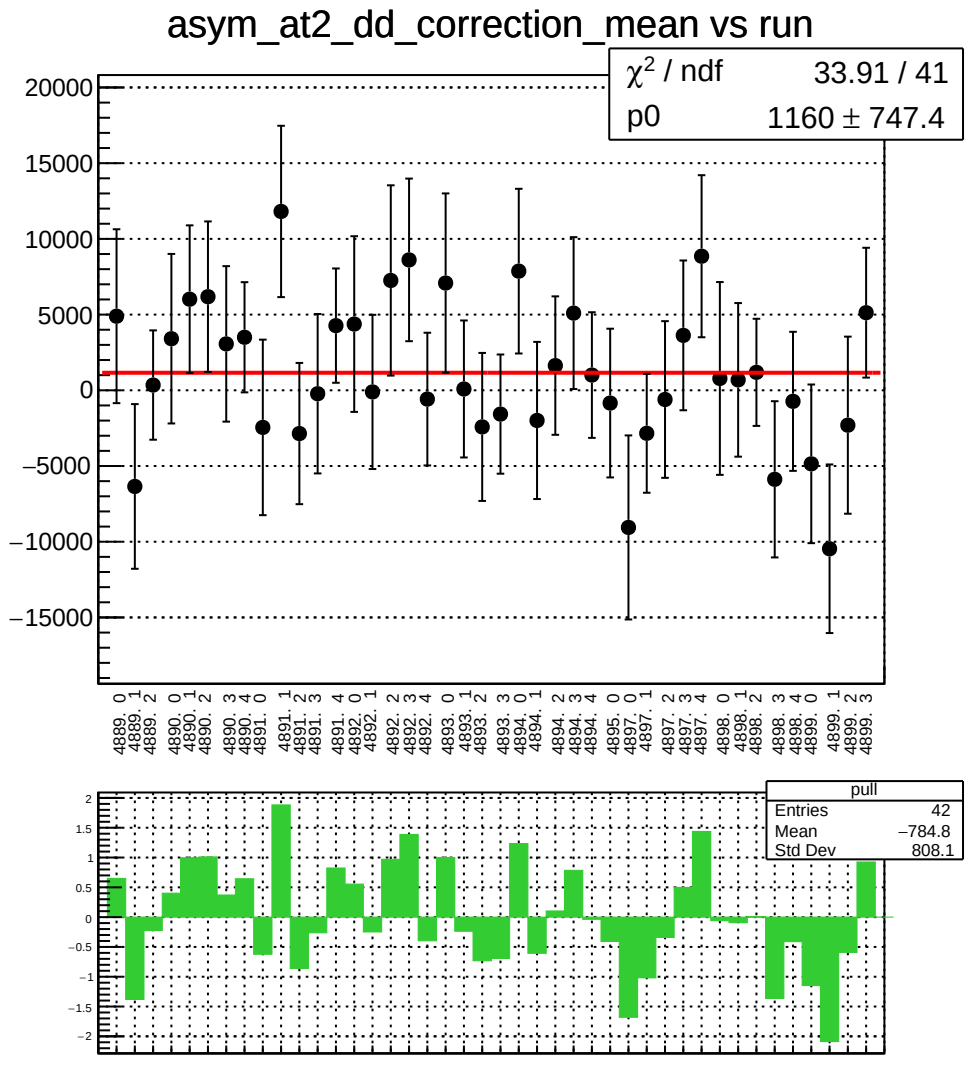

asym_at2_avg_mean vs run
×10^3
χ² / ndf 39.42 / 41
p0 1.096e+04 ± 1.09e+04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 101
Std Dev 76.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

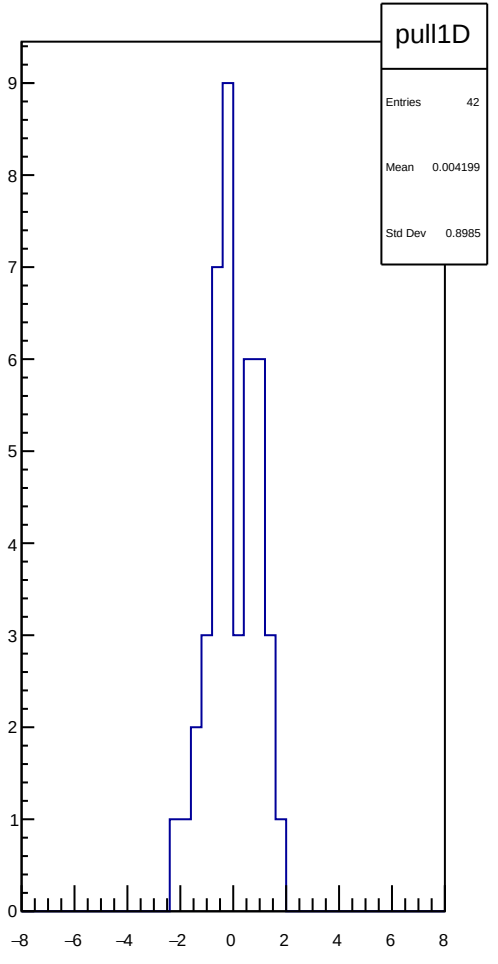

pull1D
Entries 42
Mean 0.016
Std Dev 0.9687
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

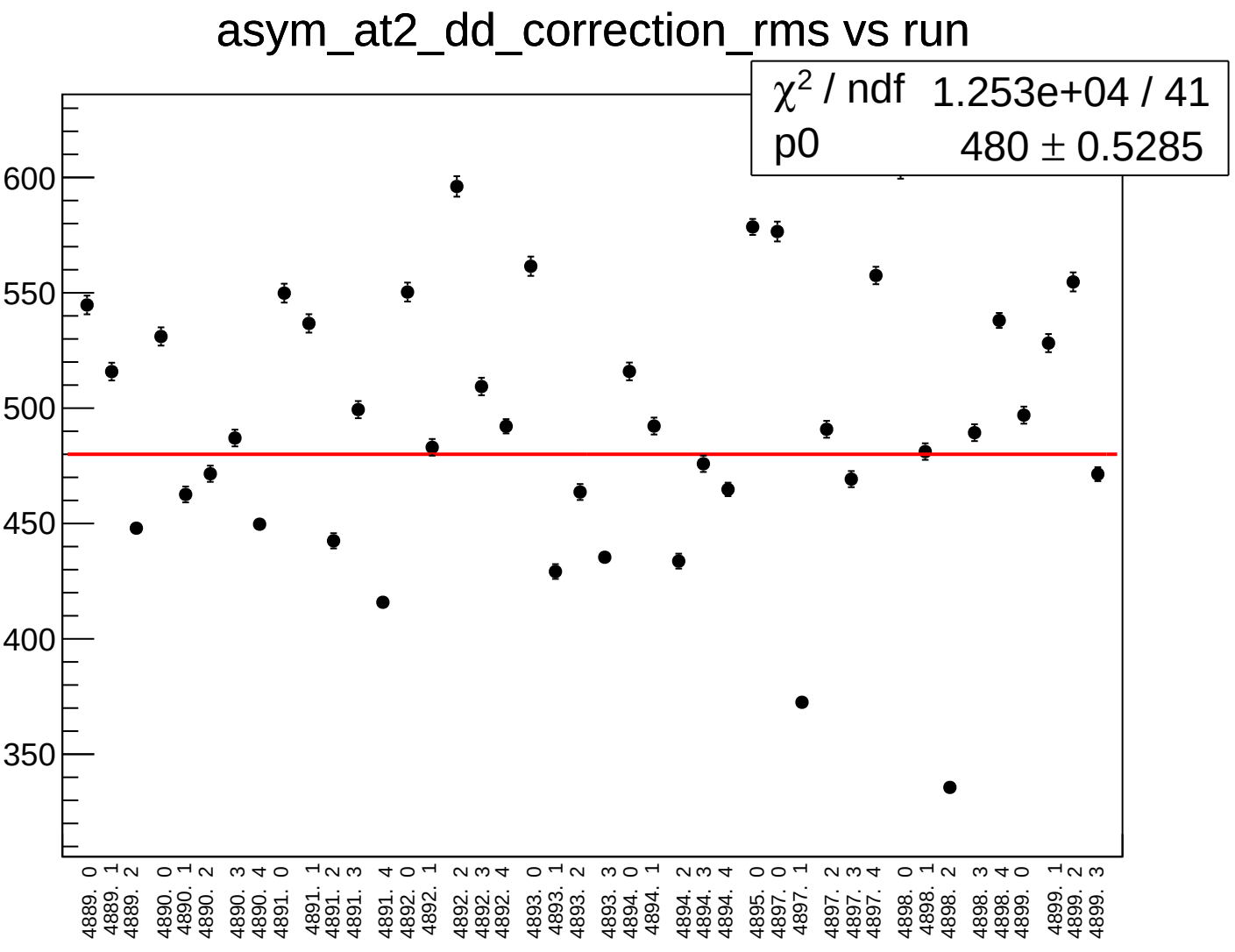

asym_at2_avg_rms vs run
χ^2 / ndf 31.88 / 41
p0 7053 ± 7.707
7200
7150
7100
7050
7000
6950
6900
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

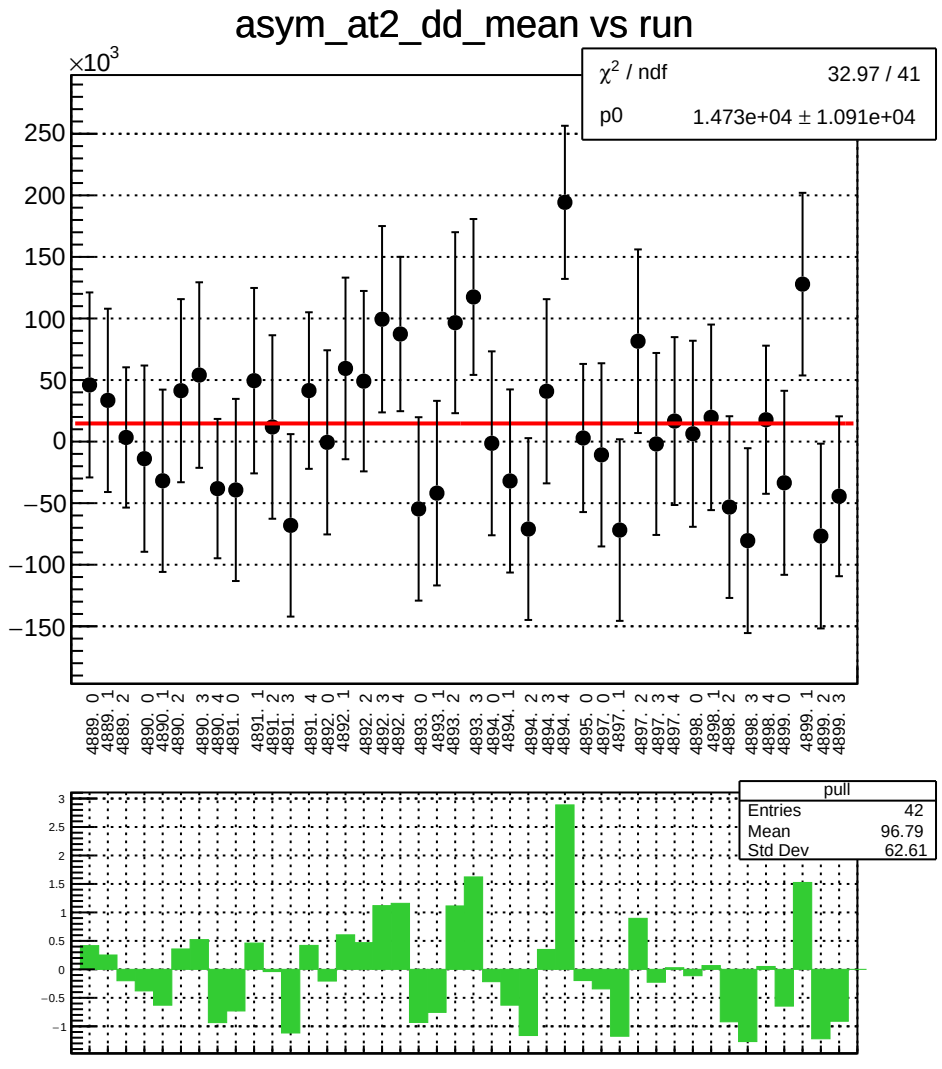

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 33.37 / 41
p0 1.594e+04 ± 1.089e+04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 113.2
Std Dev 81.2
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.01467
Std Dev 0.8912
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

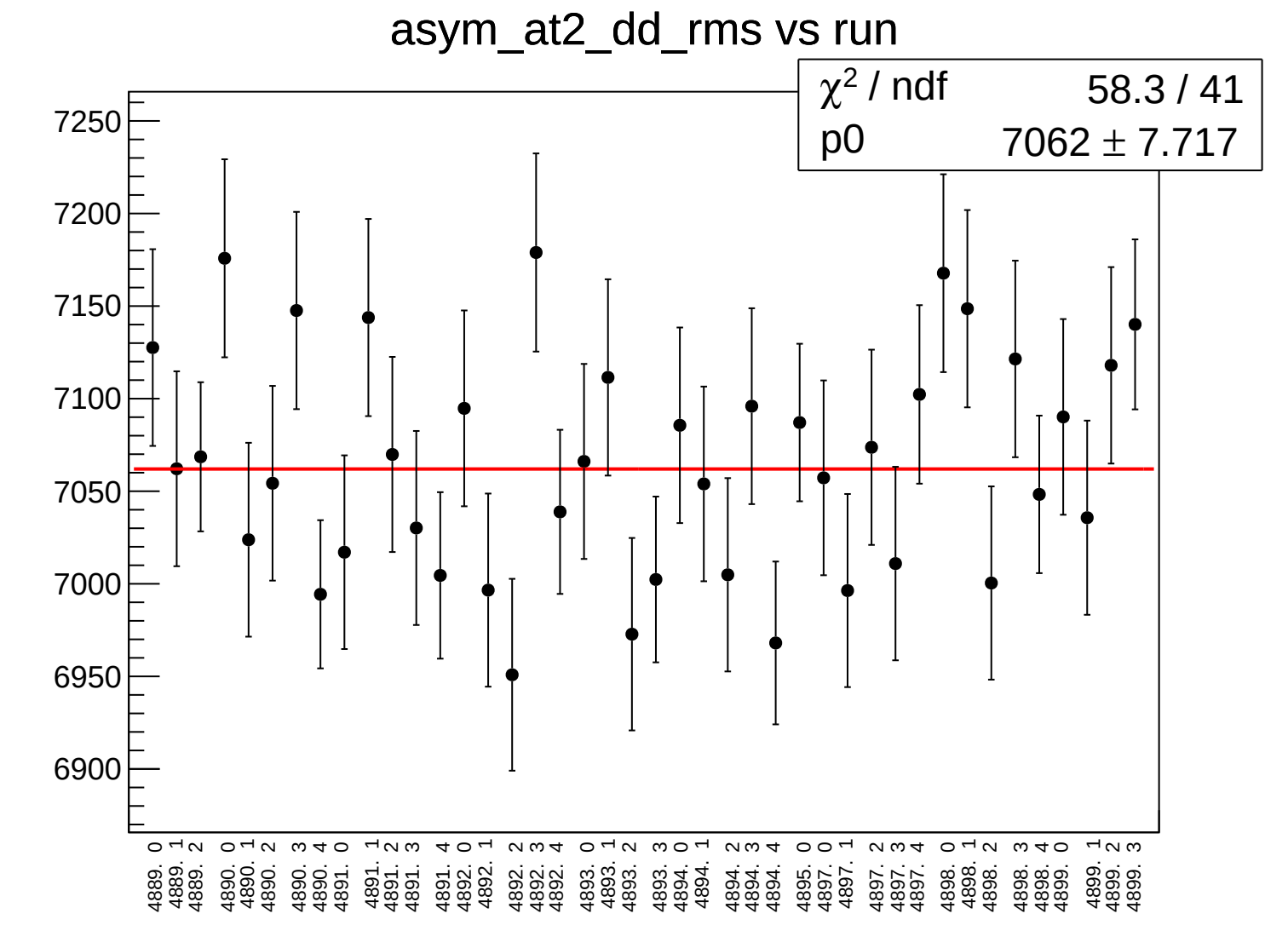

reg_asym_at2_dd_rms vs run
χ² / ndf 56.3 / 41
p0 7045 ± 7.698
7200
7150
7100
7050
7000
6950
6900
6850
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

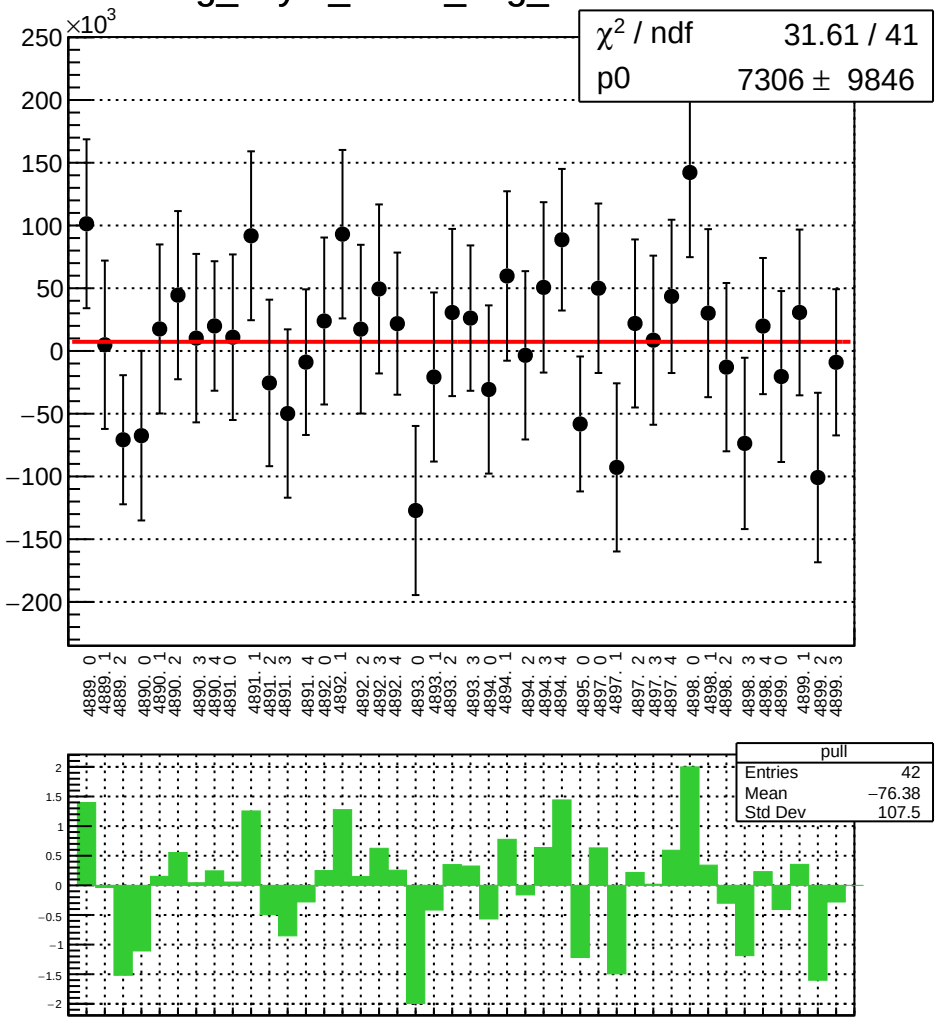

asym_at2_dd_correction_mean vs run
χ² / ndf 33.91 / 41
p0 1160 ± 747.4
20000
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −784.8
Std Dev 808.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

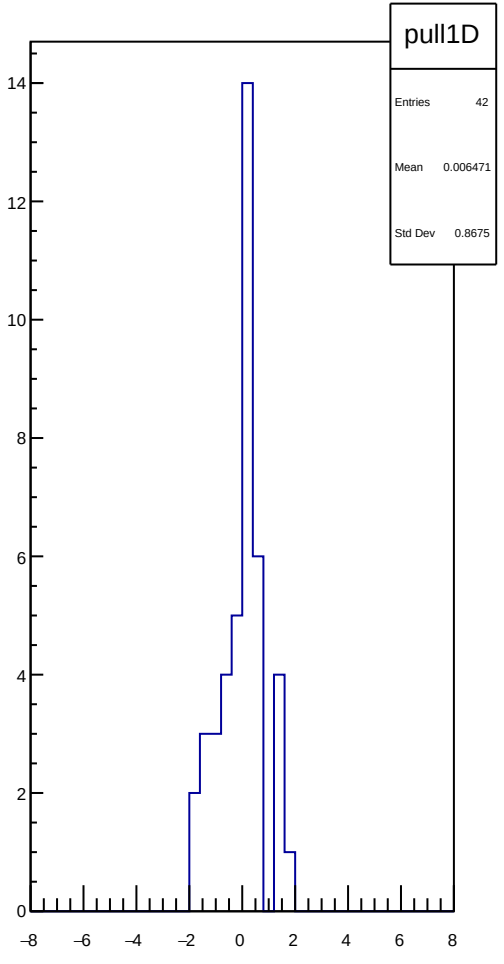

pull1D
Entries 42
Mean 0.004199
Std Dev 0.8985
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

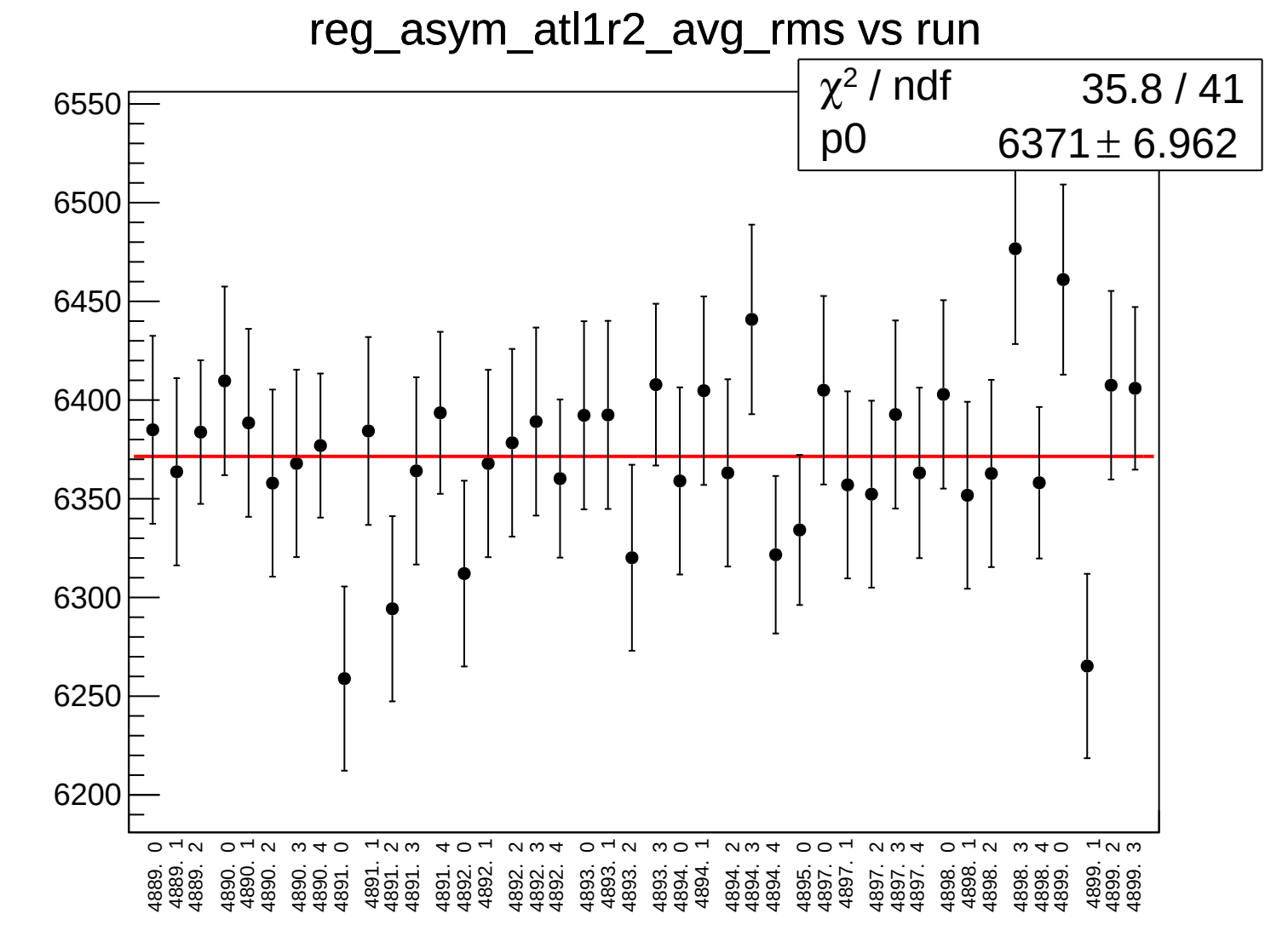

asym_at2_dd_correction_rms vs run
χ² / ndf 1.253e+04 / 41
p0 480 ± 0.5285
600
550
500
450
400
350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

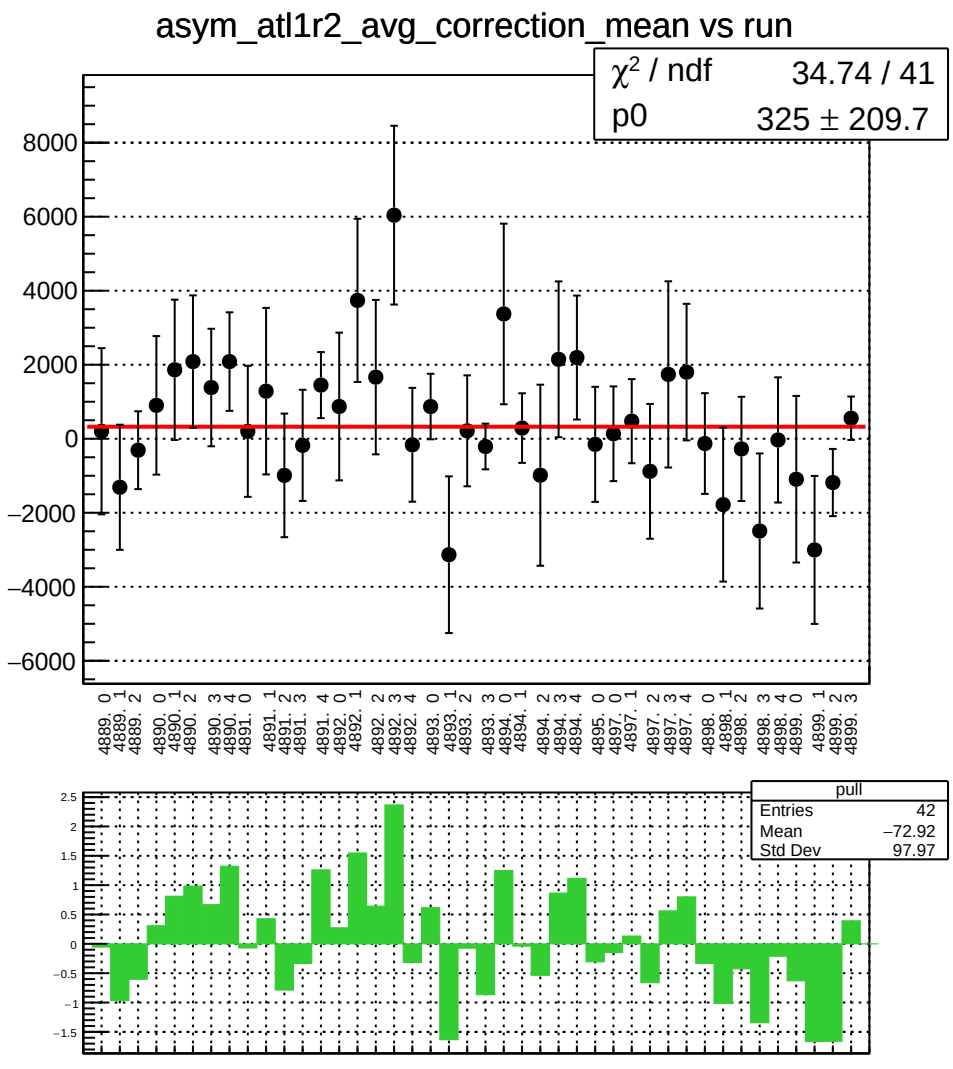

asym_at2_dd_mean vs run
×10^3
χ² / ndf 32.97 / 41
p0 1.473e+04 ± 1.091e+04
250
200
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 96.79
Std Dev 62.61
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean −0.01457
Std Dev 0.8859
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

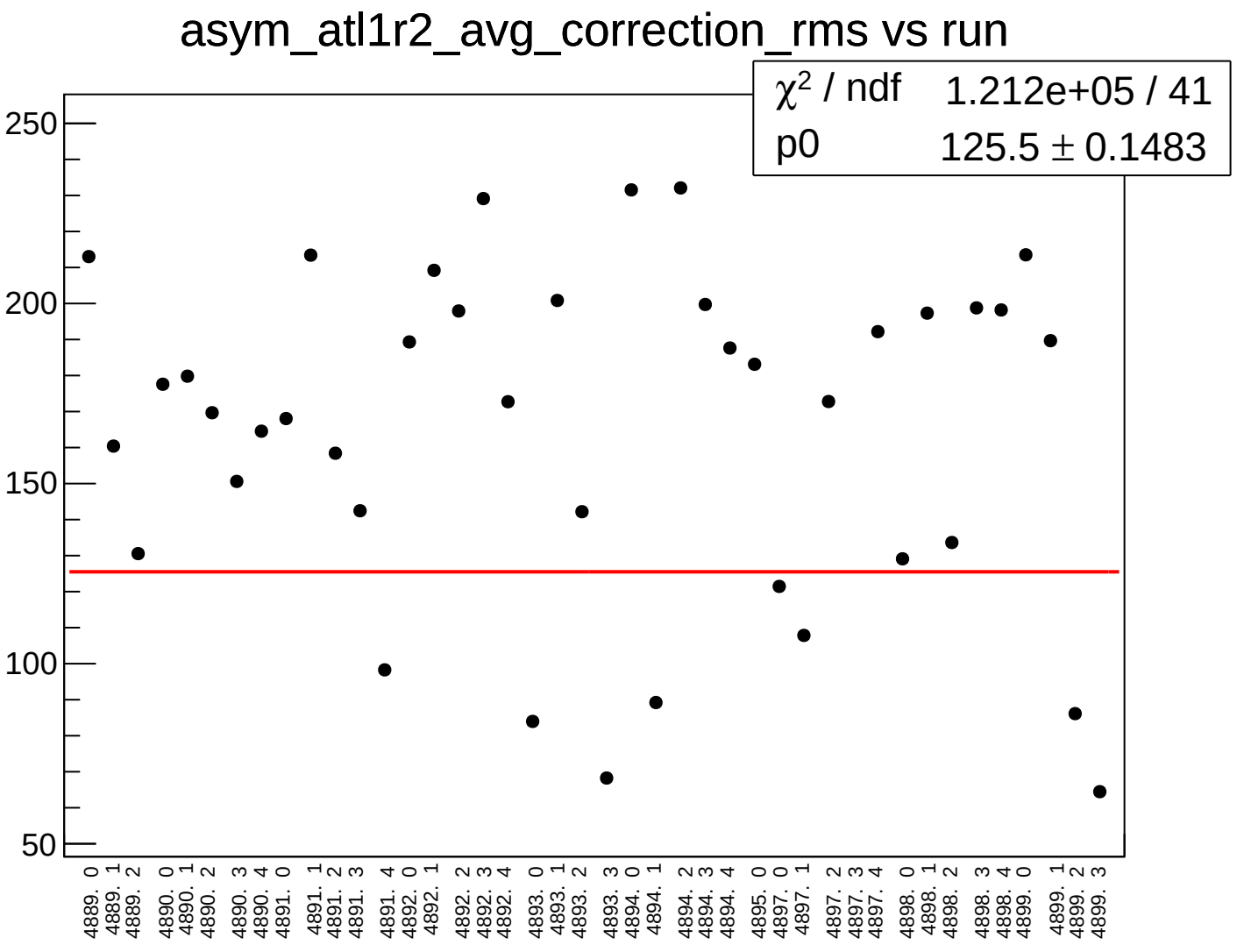

asym_at2_dd_rms vs run
χ² / ndf 58.3 / 41
p0 7062 ± 7.717
7250
7200
7150
7100
7050
7000
6950
6900
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

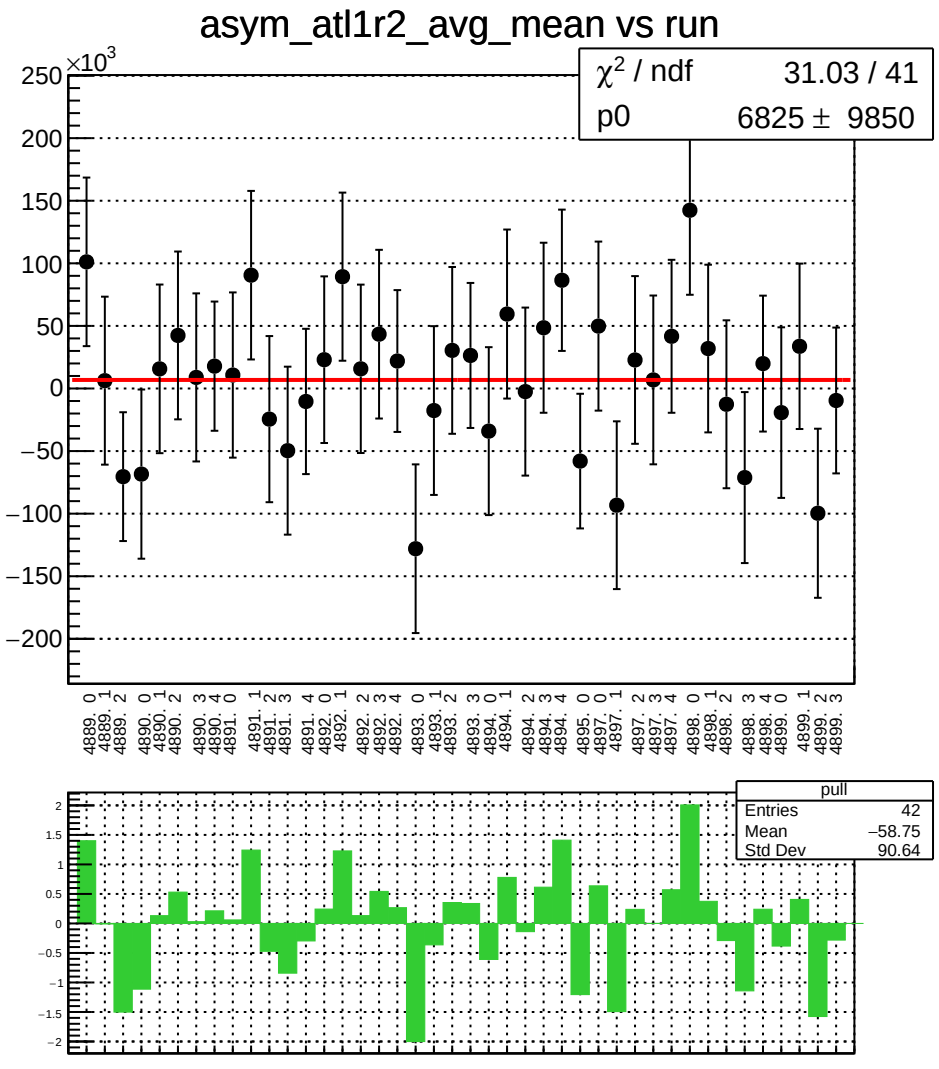

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 31.61 / 41
p0 7306 ± 9846
×10³
pull
Entries 42
Mean −76.38
Std Dev 107.5

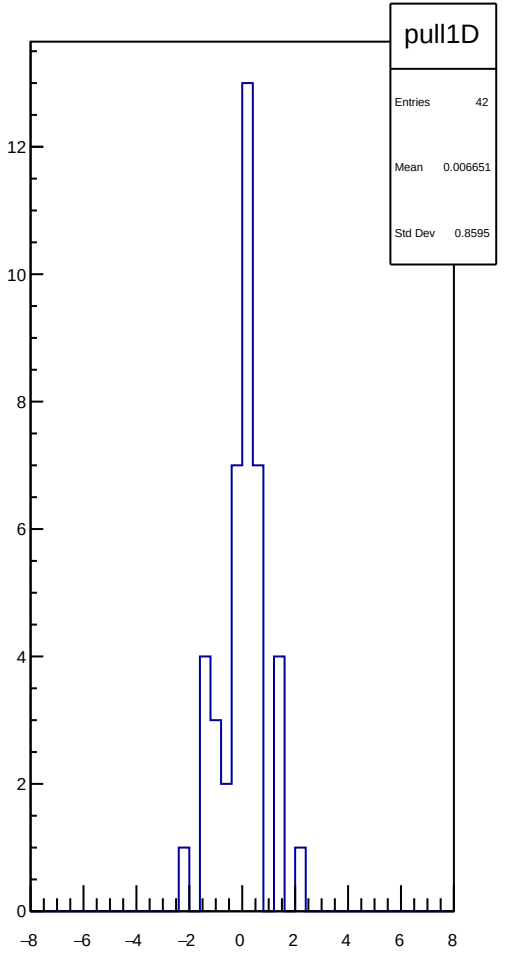

pull1D
Entries 42
Mean 0.006471
Std Dev 0.8675

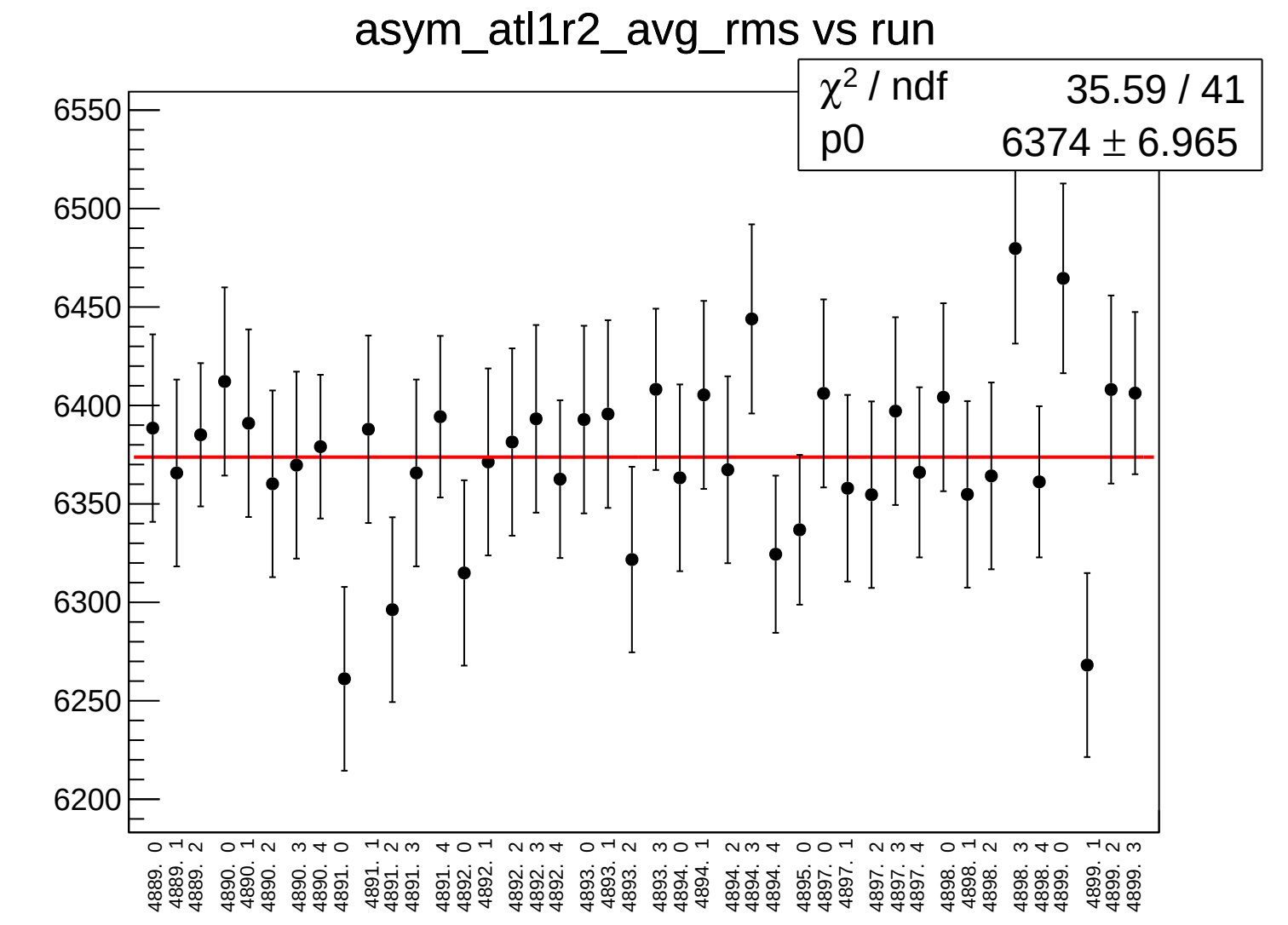

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 35.8 / 41
p0 6371 ± 6.962
6550
6500
6450
6400
6350
6300
6250
6200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

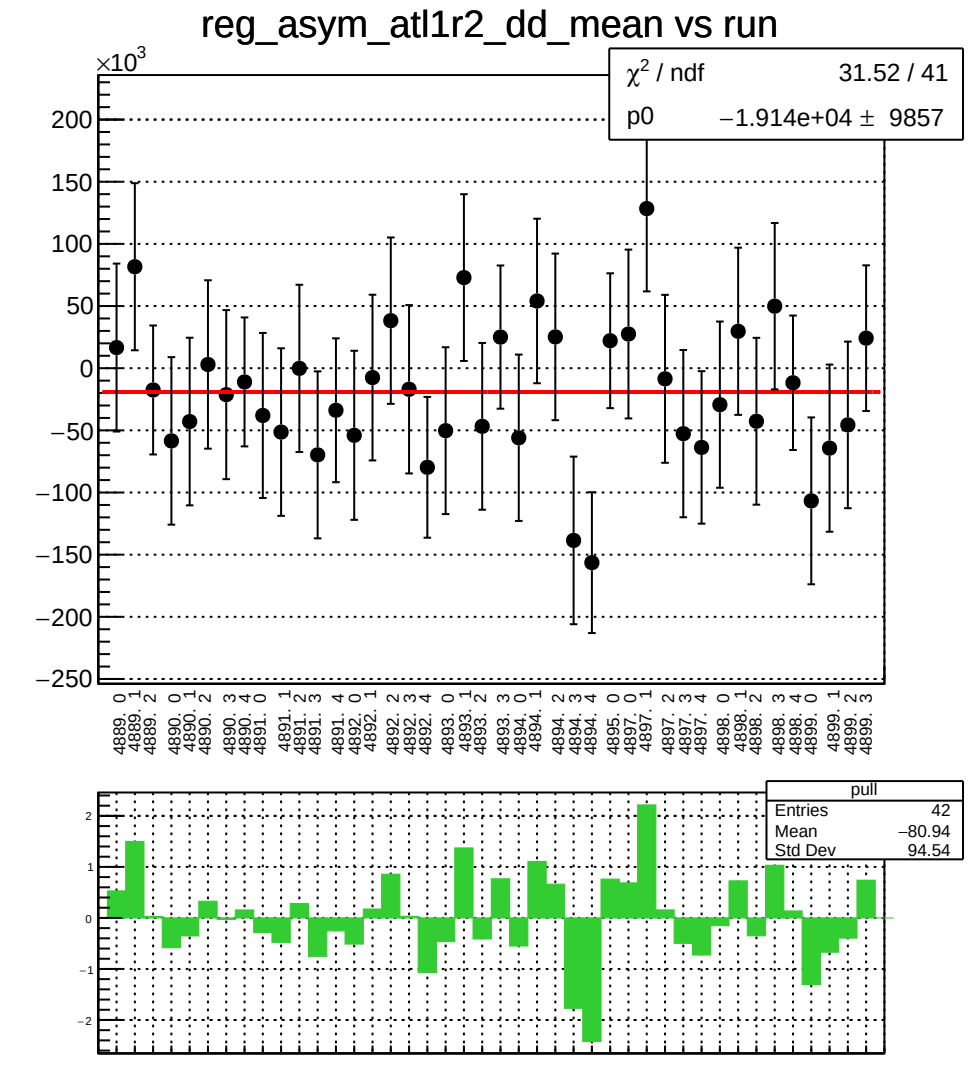

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 34.74 / 41
p0 325 ± 209.7
8000
6000
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −72.92
Std Dev 97.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.03959
Std Dev 0.9086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

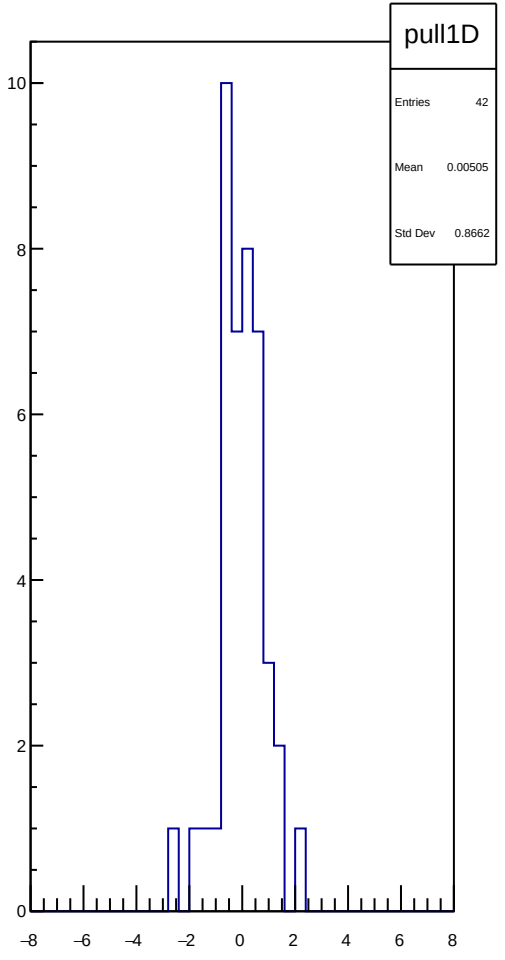

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.212e+05 / 41
p0 125.5 ± 0.1483
250
200
150
100
50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

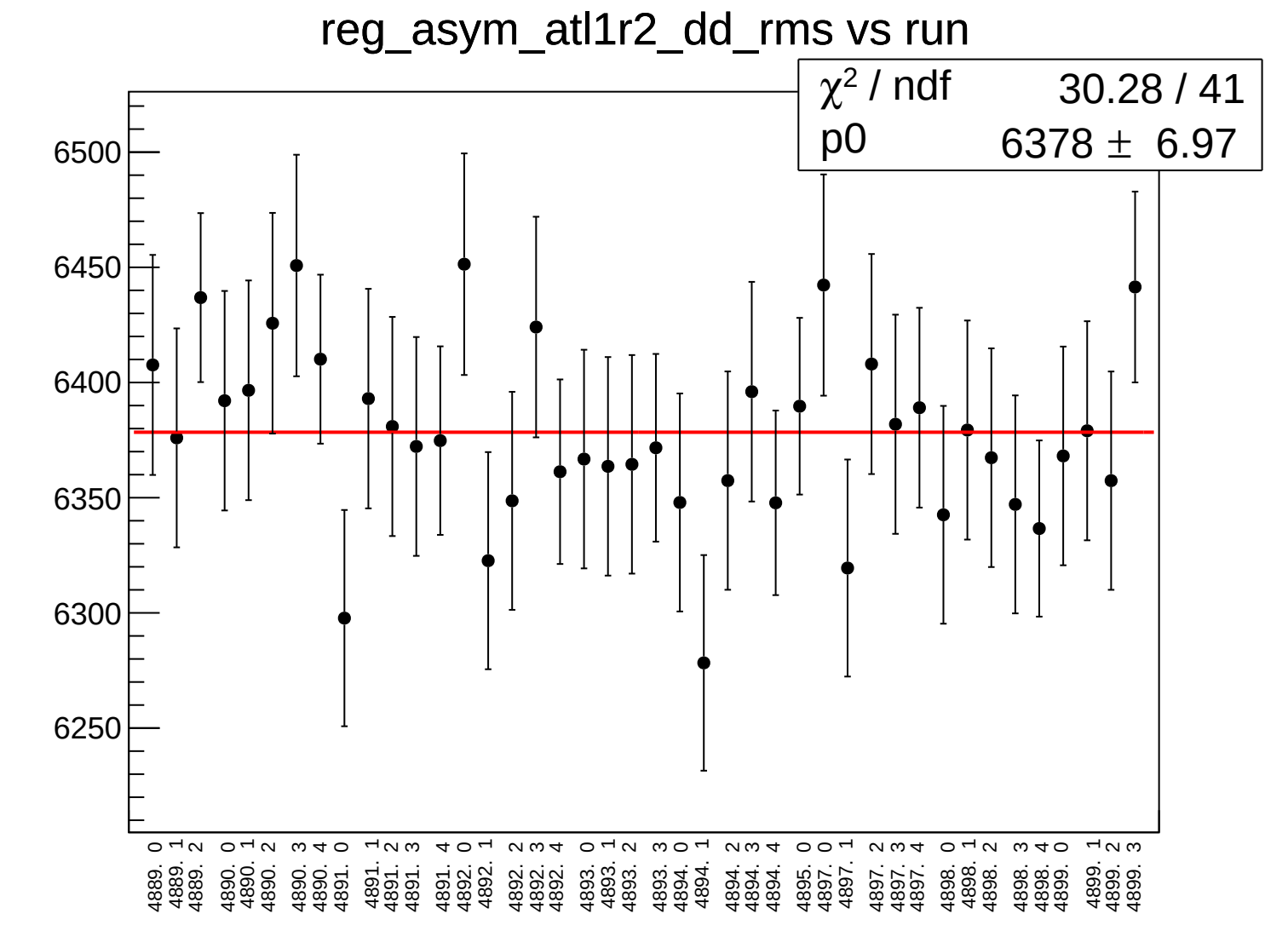

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 31.03 / 41
p0 6825 ± 9850
pull
Entries 42
Mean −58.75
Std Dev 90.64

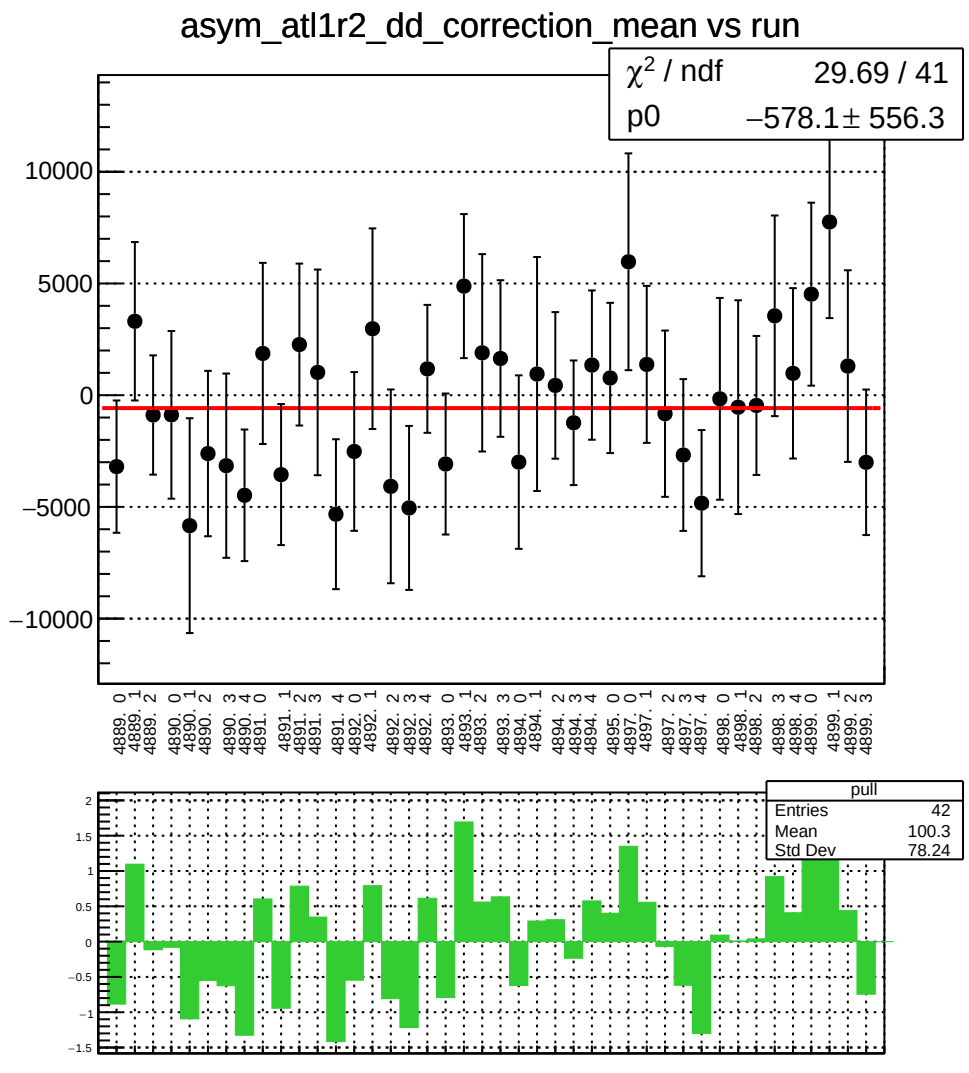

pull1D
Entries 42
Mean 0.006651
Std Dev 0.8595

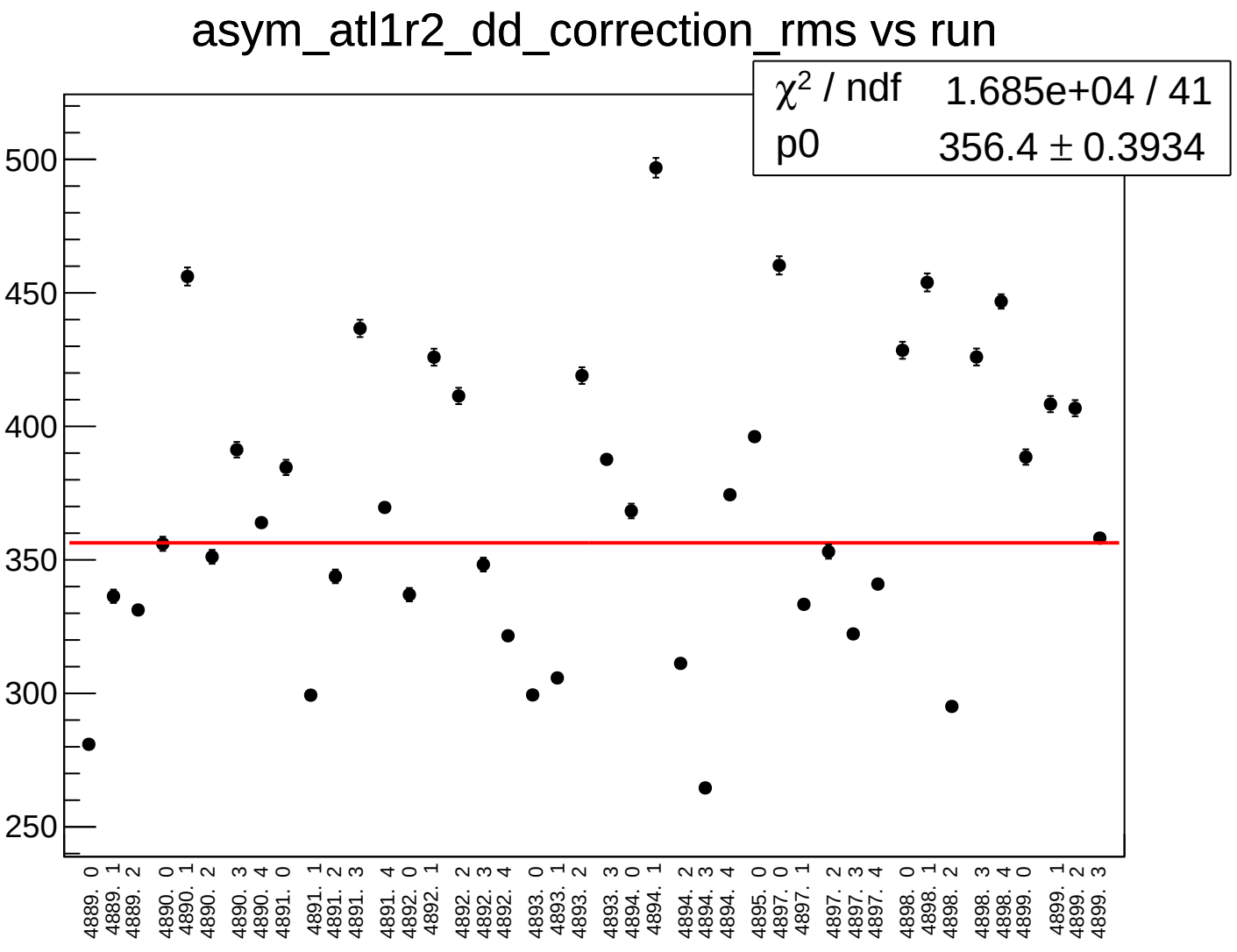

asym_atl1r2_avg_rms vs run
χ² / ndf 35.59 / 41
p0 6374 ± 6.965
6550
6500
6450
6400
6350
6300
6250
6200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

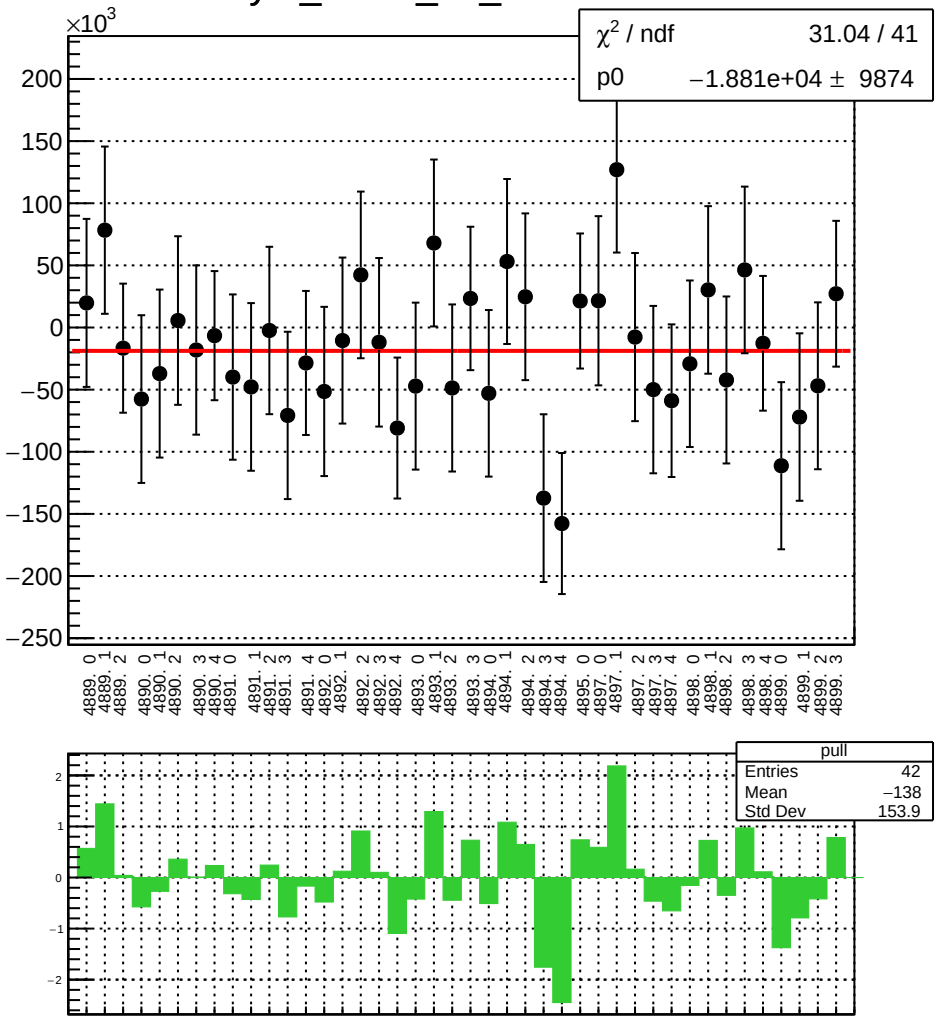

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 31.52 / 41
p0 −1.914e+04 ± 9857
pull
Entries 42
Mean −80.94
Std Dev 94.54

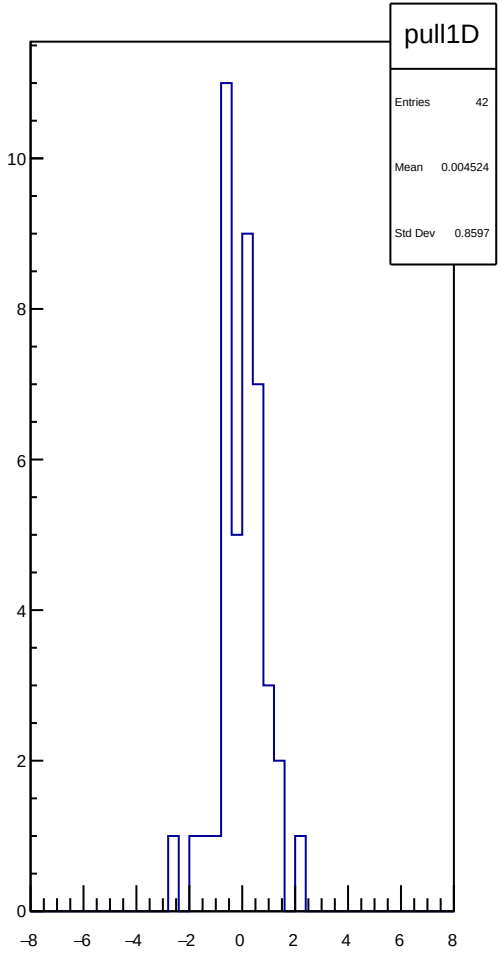

pull1D
Entries 42
Mean 0.00505
Std Dev 0.8662

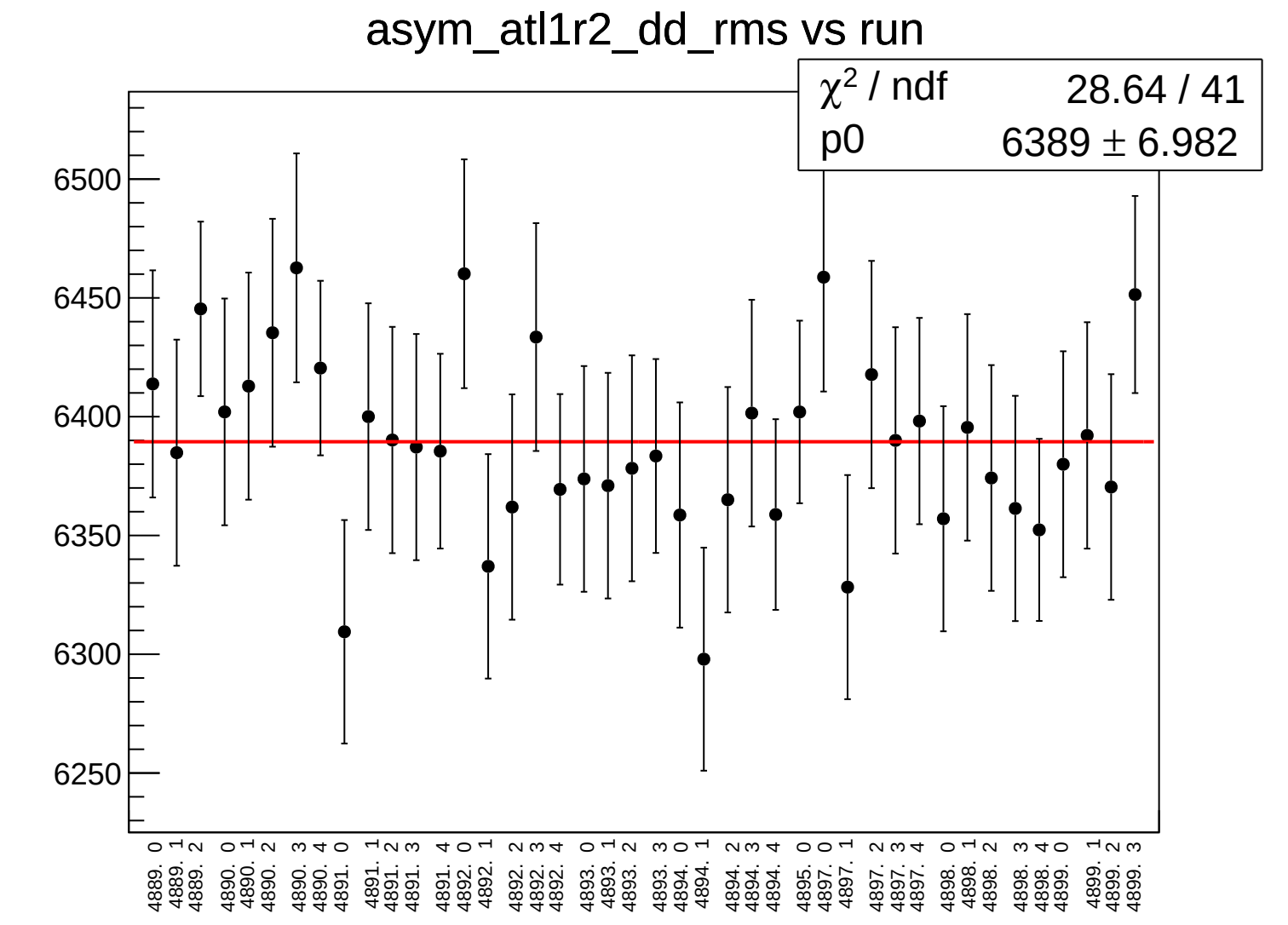

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 30.28 / 41
p0 6378 ± 6.97
6500
6450
6400
6350
6300
6250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

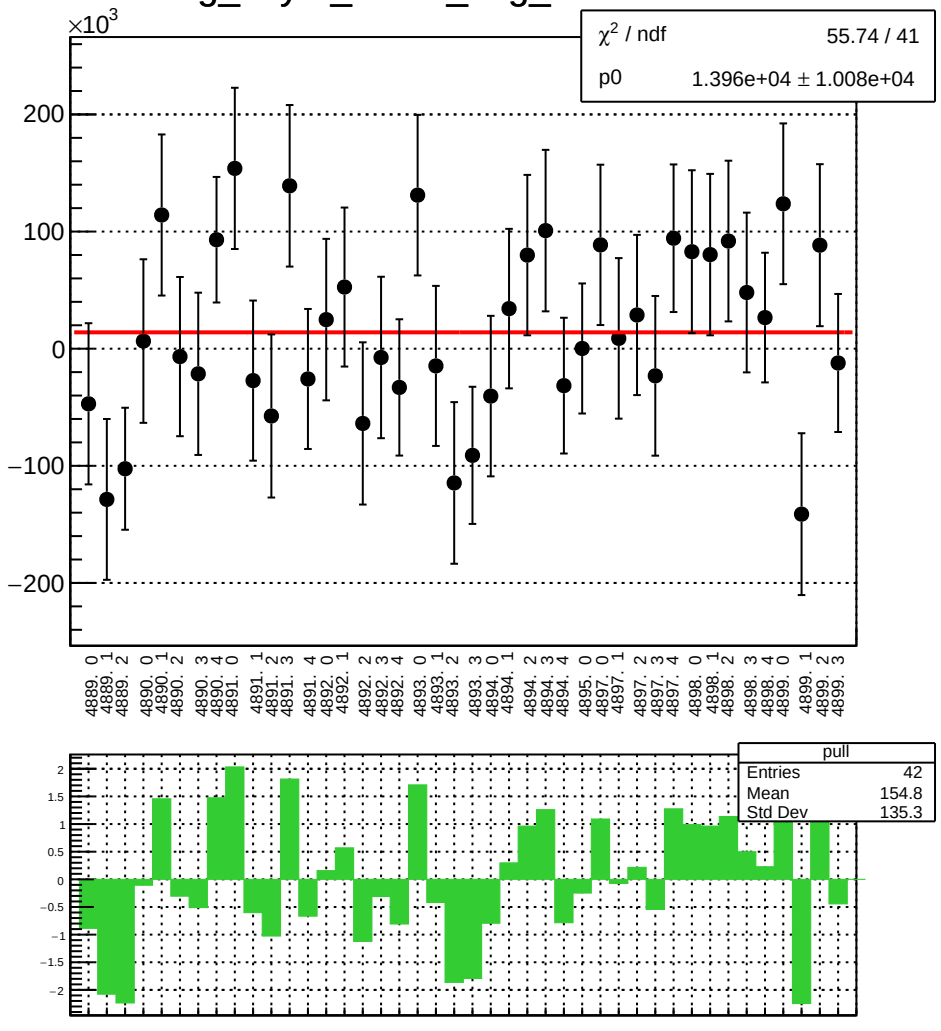

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 29.69 / 41
p0 −578.1 ± 556.3
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 100.3
Std Dev 78.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.04081
Std Dev 0.8397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

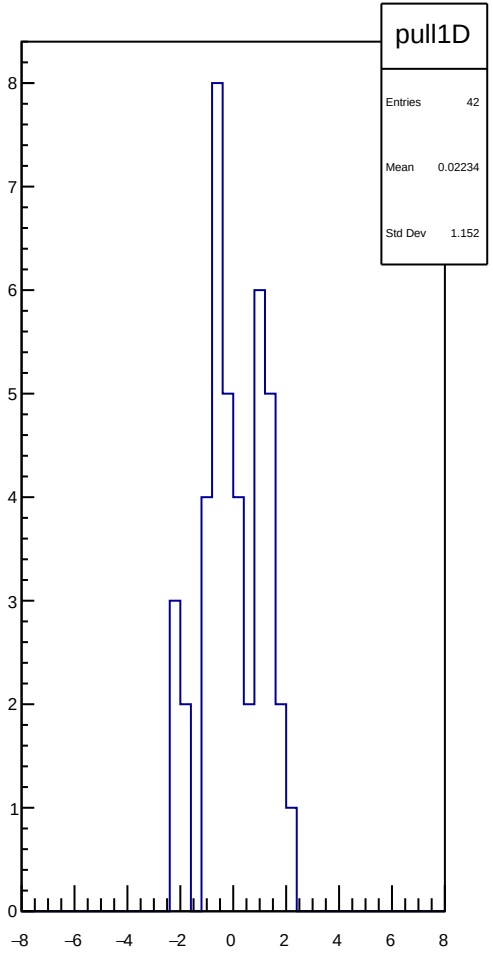

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.685e+04 / 41
p0 356.4 ± 0.3934
500
450
400
350
300
250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

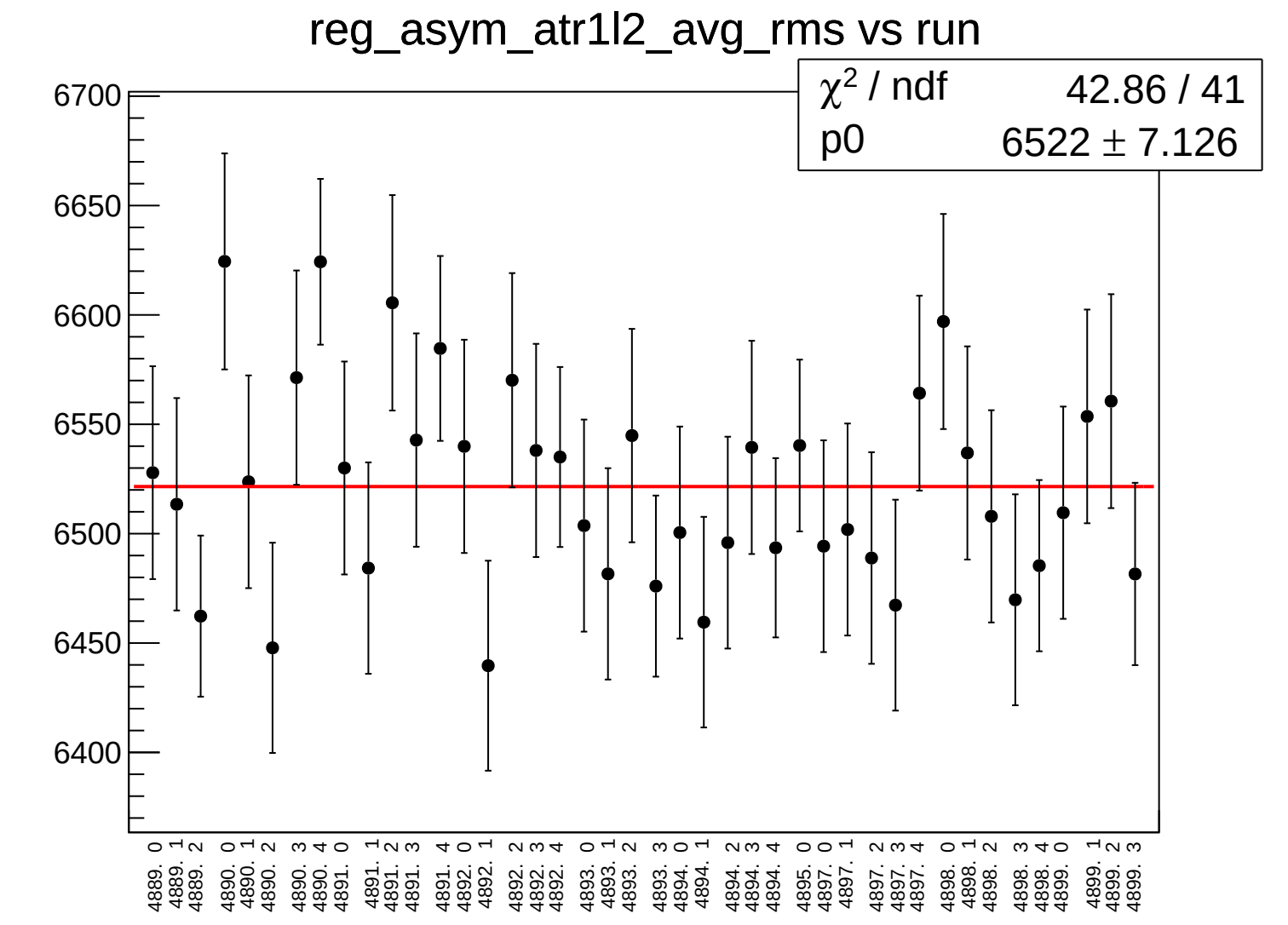

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 31.04 / 41
p0 −1.881e+04 ± 9874
200
150
100
50
0
−50
−100
−150
−200
−250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −138
Std Dev 153.9
2
1
0
−1
−2

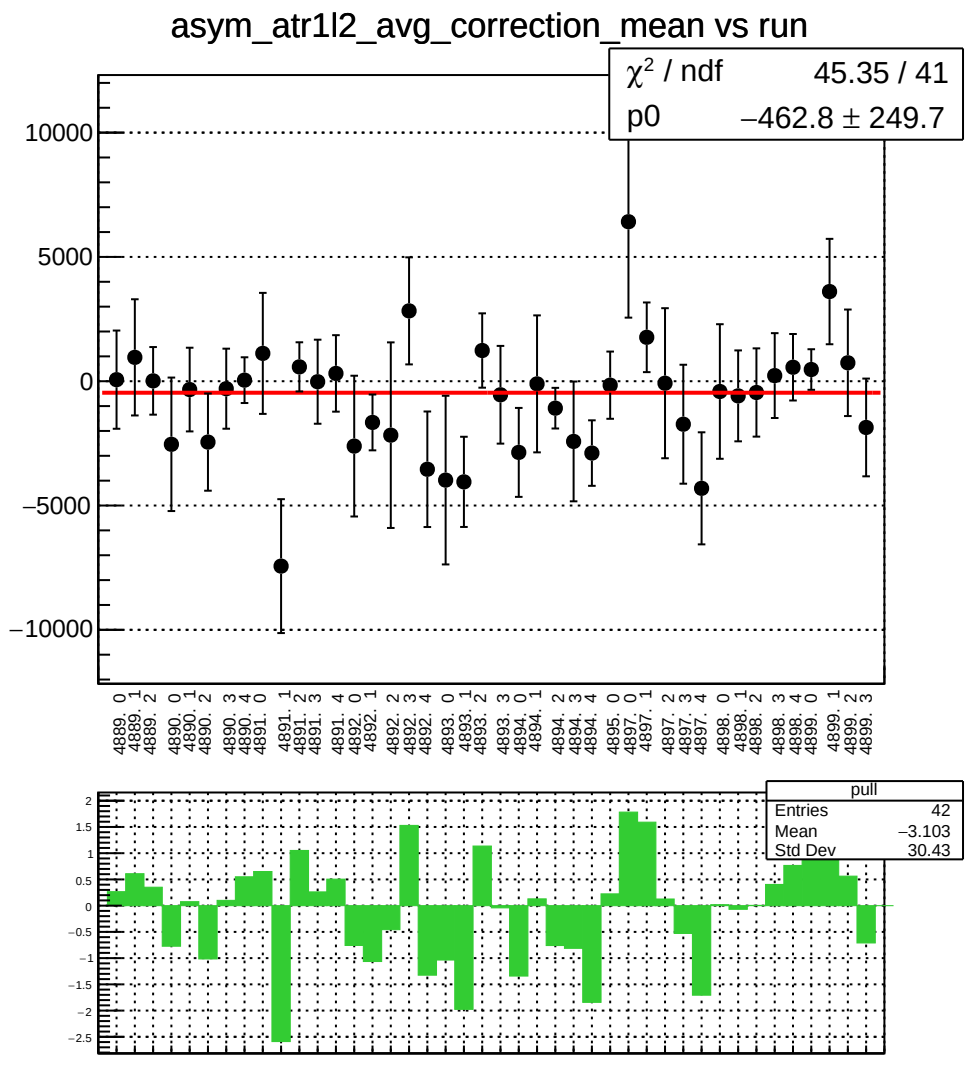

pull1D
Entries 42
Mean 0.004524
Std Dev 0.8597
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

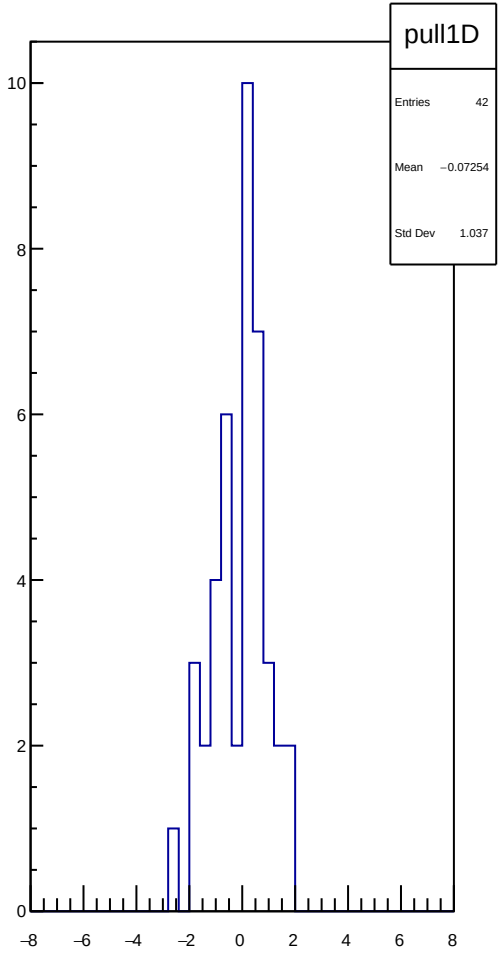

asym_atl1r2_dd_rms vs run
χ² / ndf 28.64 / 41
p0 6389 ± 6.982
6500
6450
6400
6350
6300
6250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

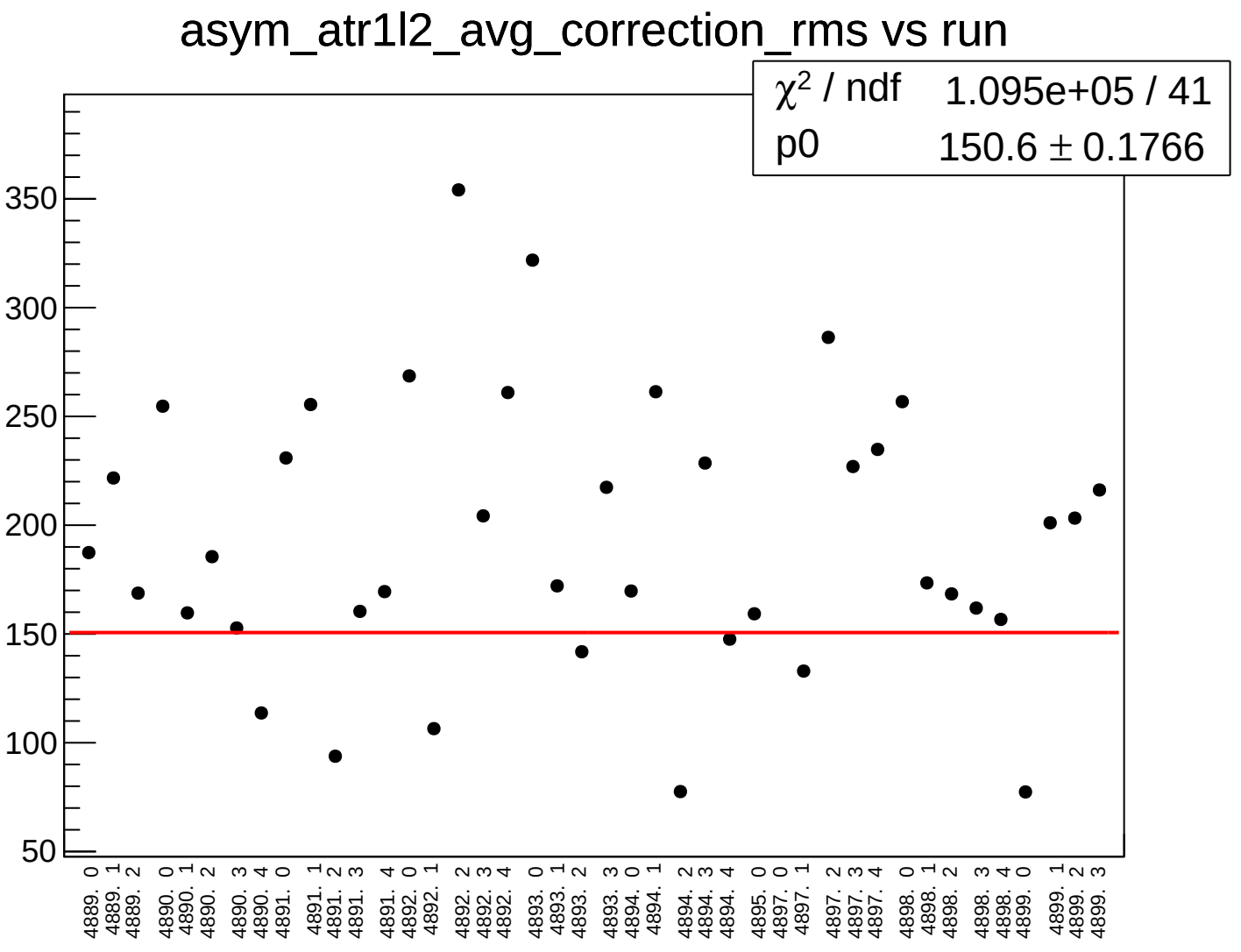

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 55.74 / 41
p0 1.396e+04 ± 1.008e+04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 154.8
Std Dev 135.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

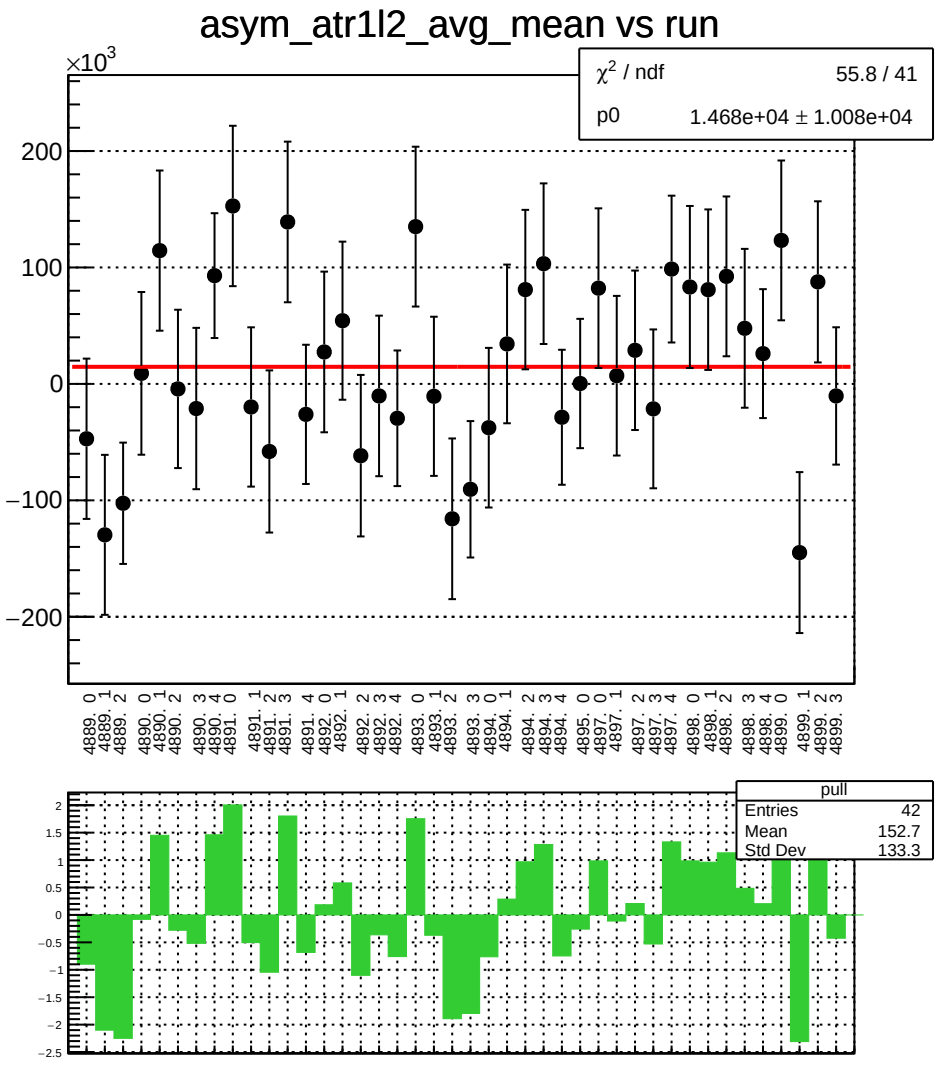

pull1D
Entries 42
Mean 0.02234
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

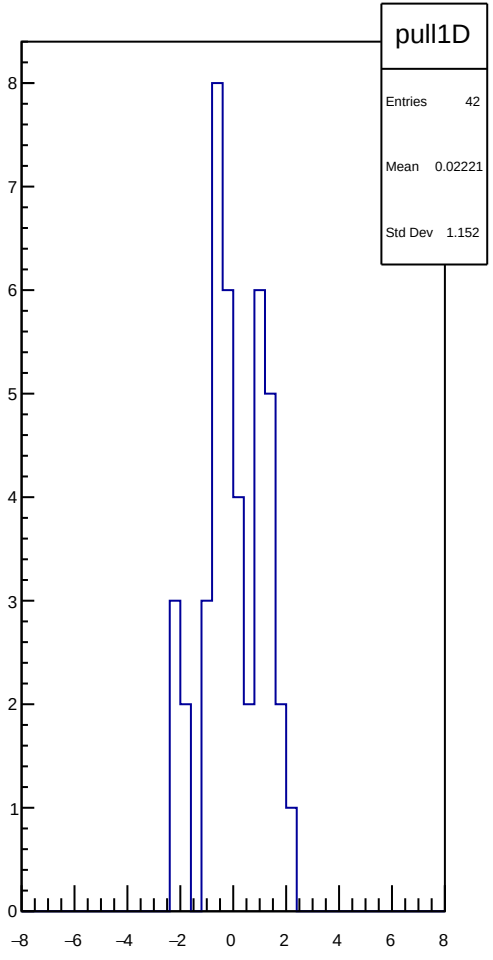

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 42.86 / 41
p0 6522 ± 7.126
6700
6650
6600
6550
6500
6450
6400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

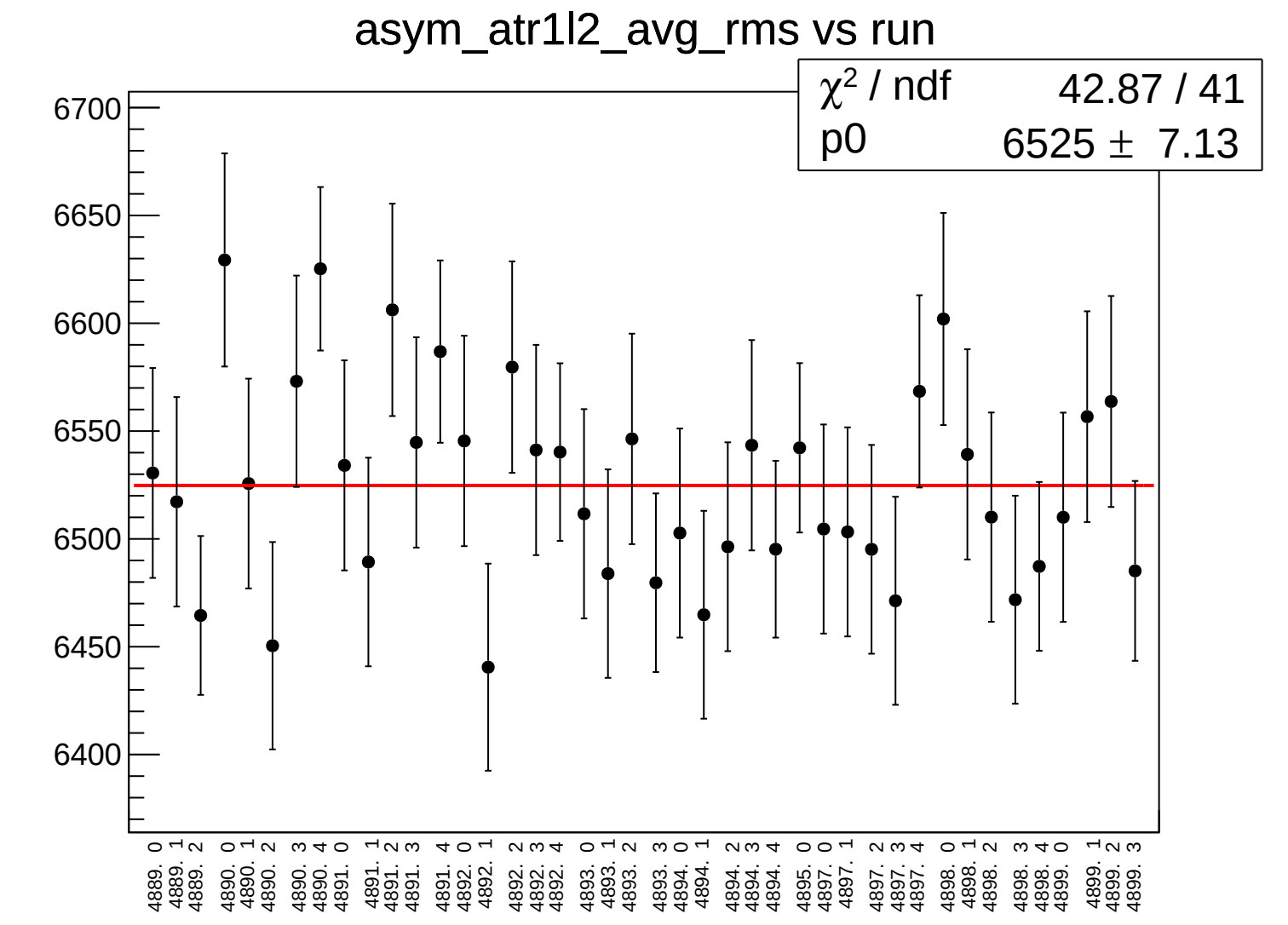

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 45.35 / 41
p0 −462.8 ± 249.7
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −3.103
Std Dev 30.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

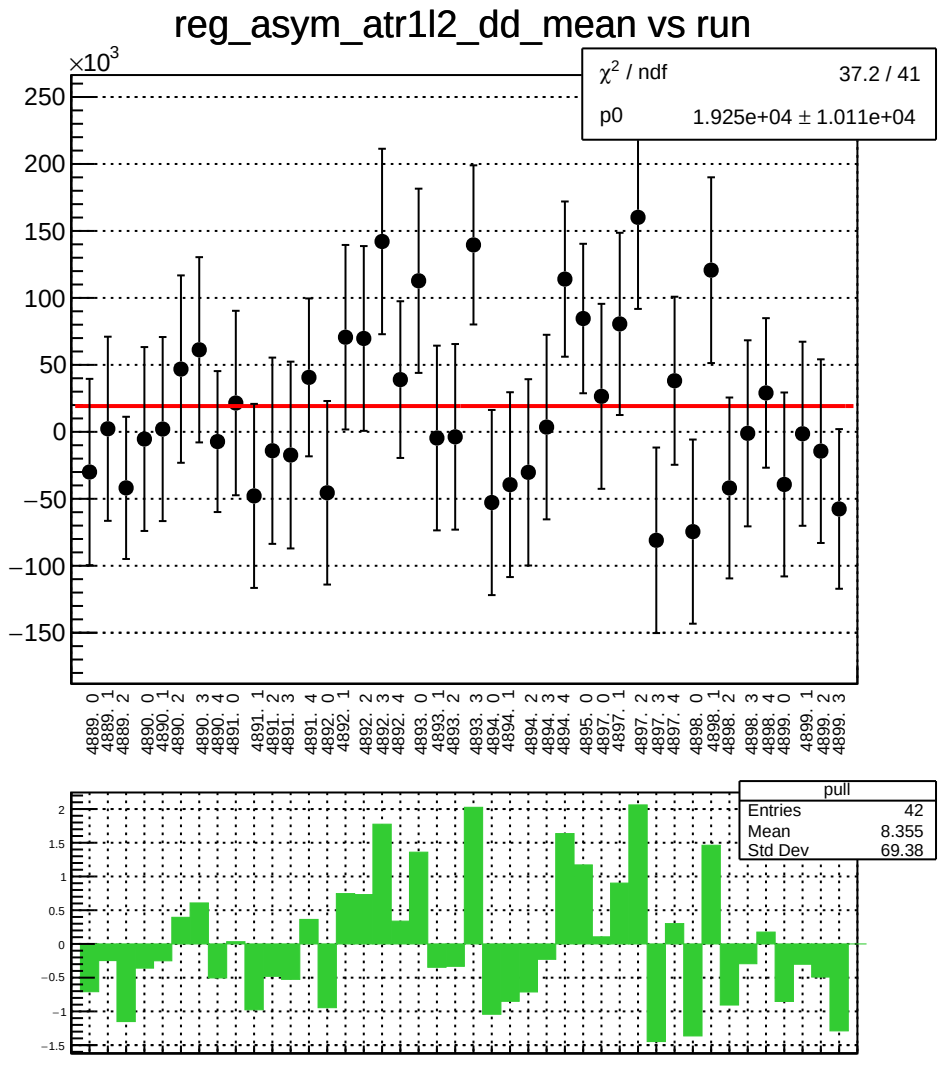

pull1D
Entries 42
Mean −0.07254
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

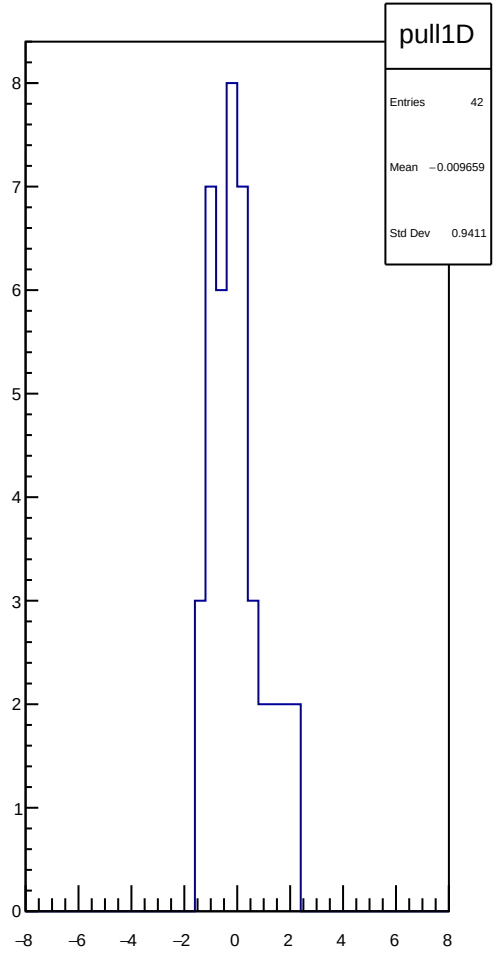

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.095e+05 / 41
p0 150.6 ± 0.1766
350
300
250
200
150
100
50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

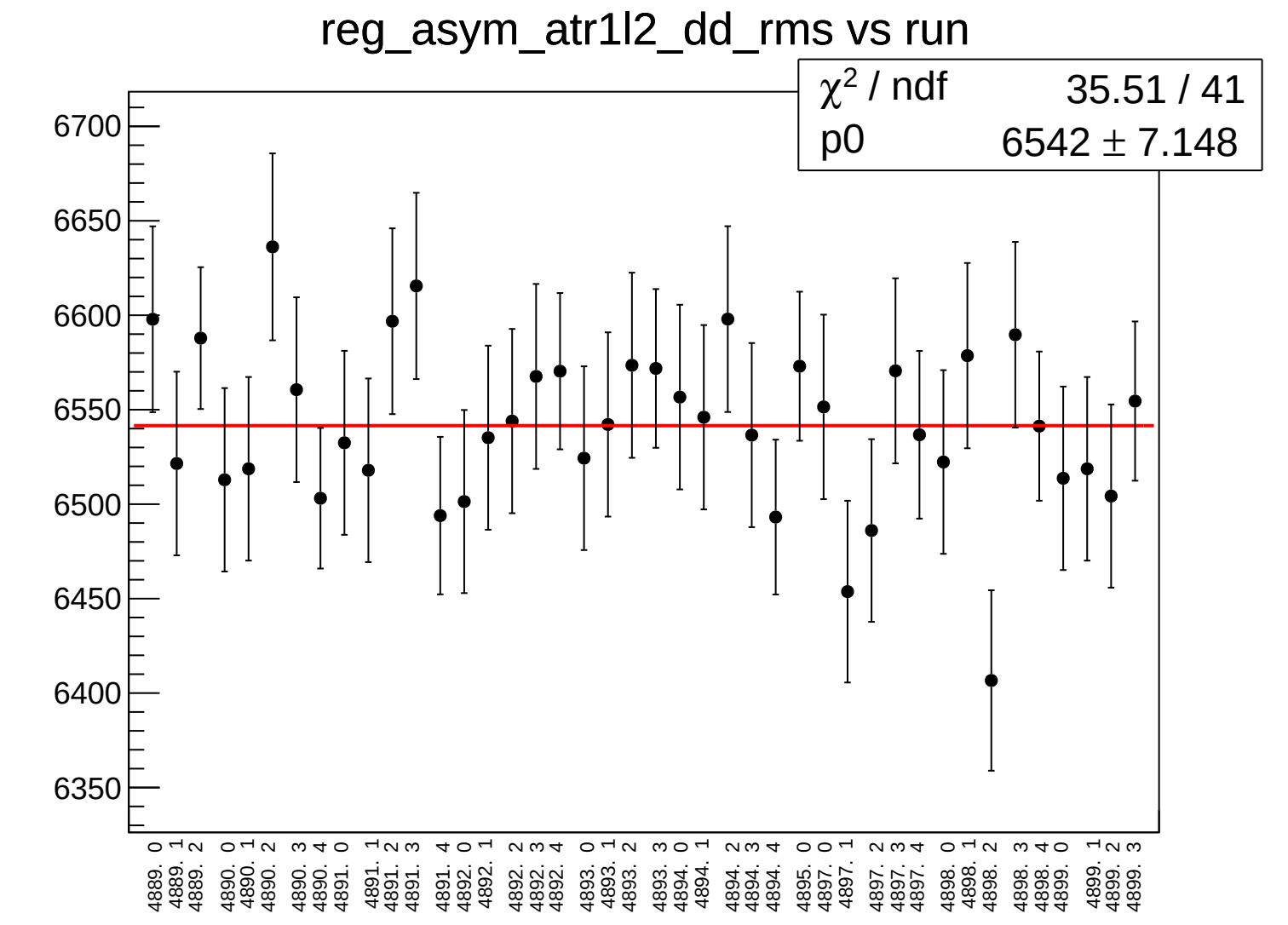

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 55.8 / 41
p0 1.468e+04 ± 1.008e+04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 152.7
Std Dev 133.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

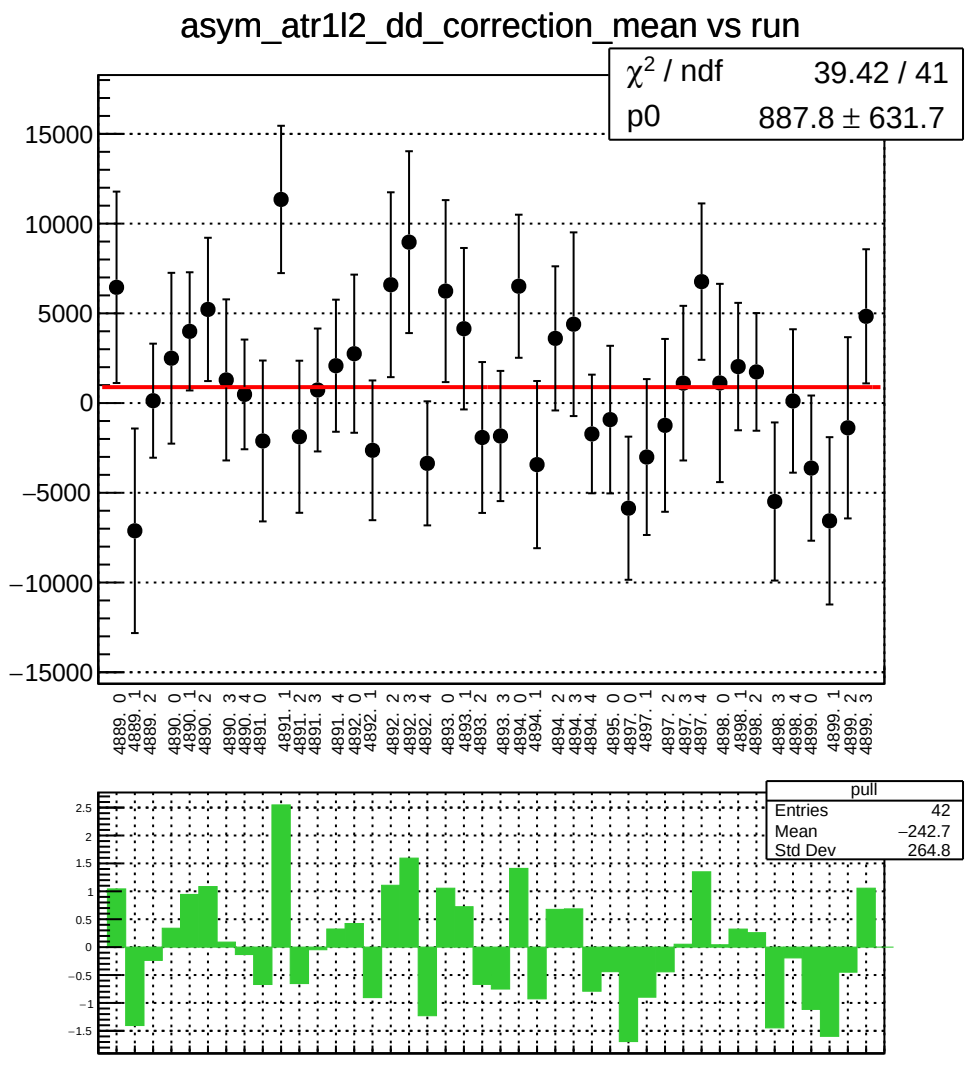

pull1D
Entries 42
Mean 0.02221
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

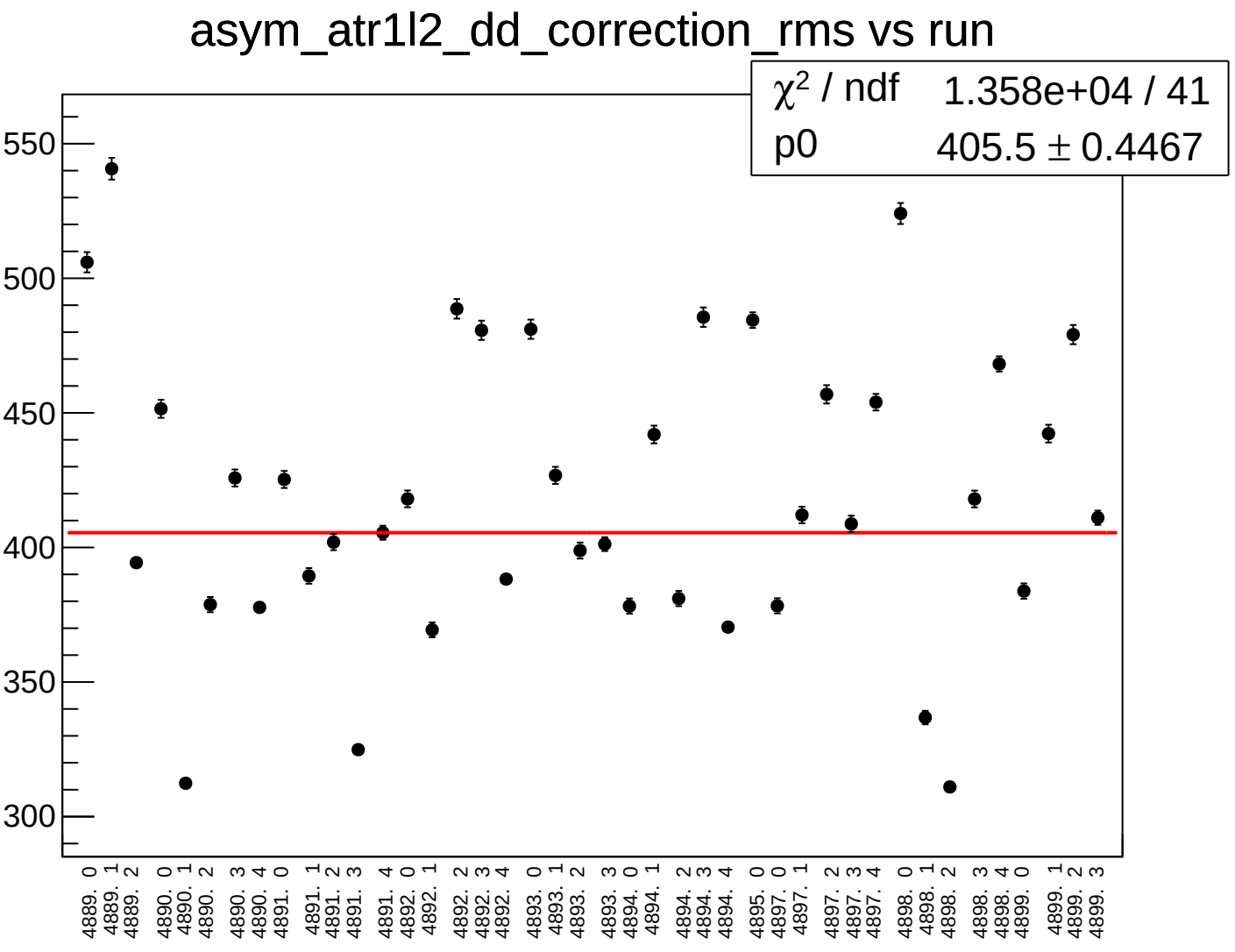

asym_atr1l2_avg_rms vs run
χ² / ndf 42.87 / 41
p0 6525 ± 7.13
6700
6650
6600
6550
6500
6450
6400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

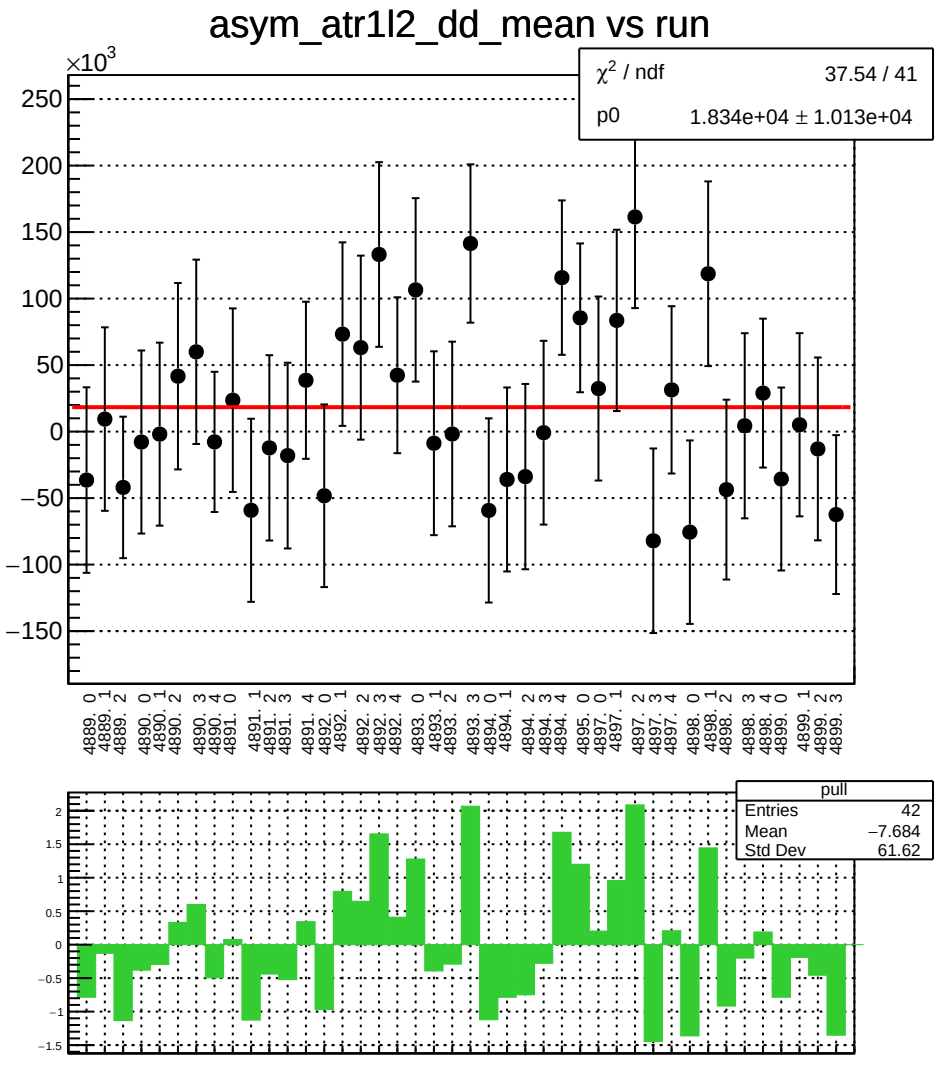

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 37.2 / 41
p0 1.925e+04 ± 1.011e+04
250
200
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 8.355
Std Dev 69.38
2
1.5
1
0.5
0
−0.5
−1
−1.5

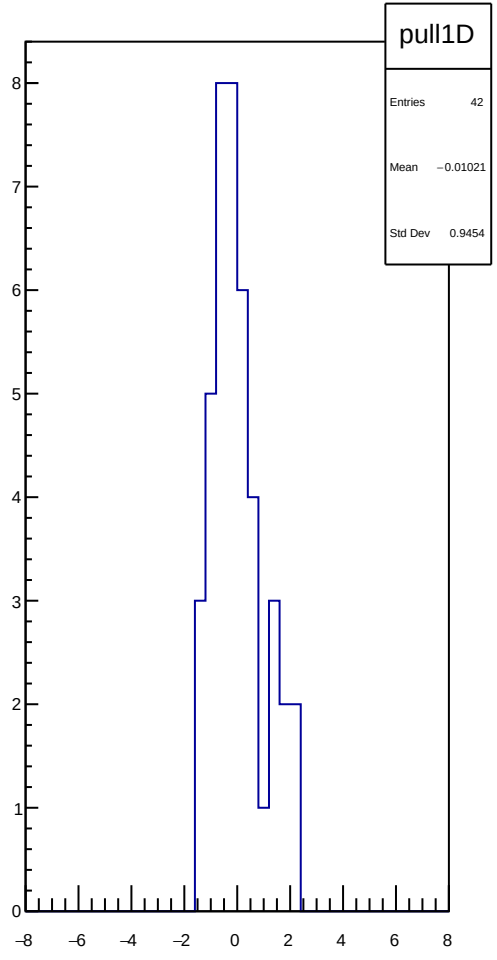

pull1D
Entries 42
Mean −0.009659
Std Dev 0.9411
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

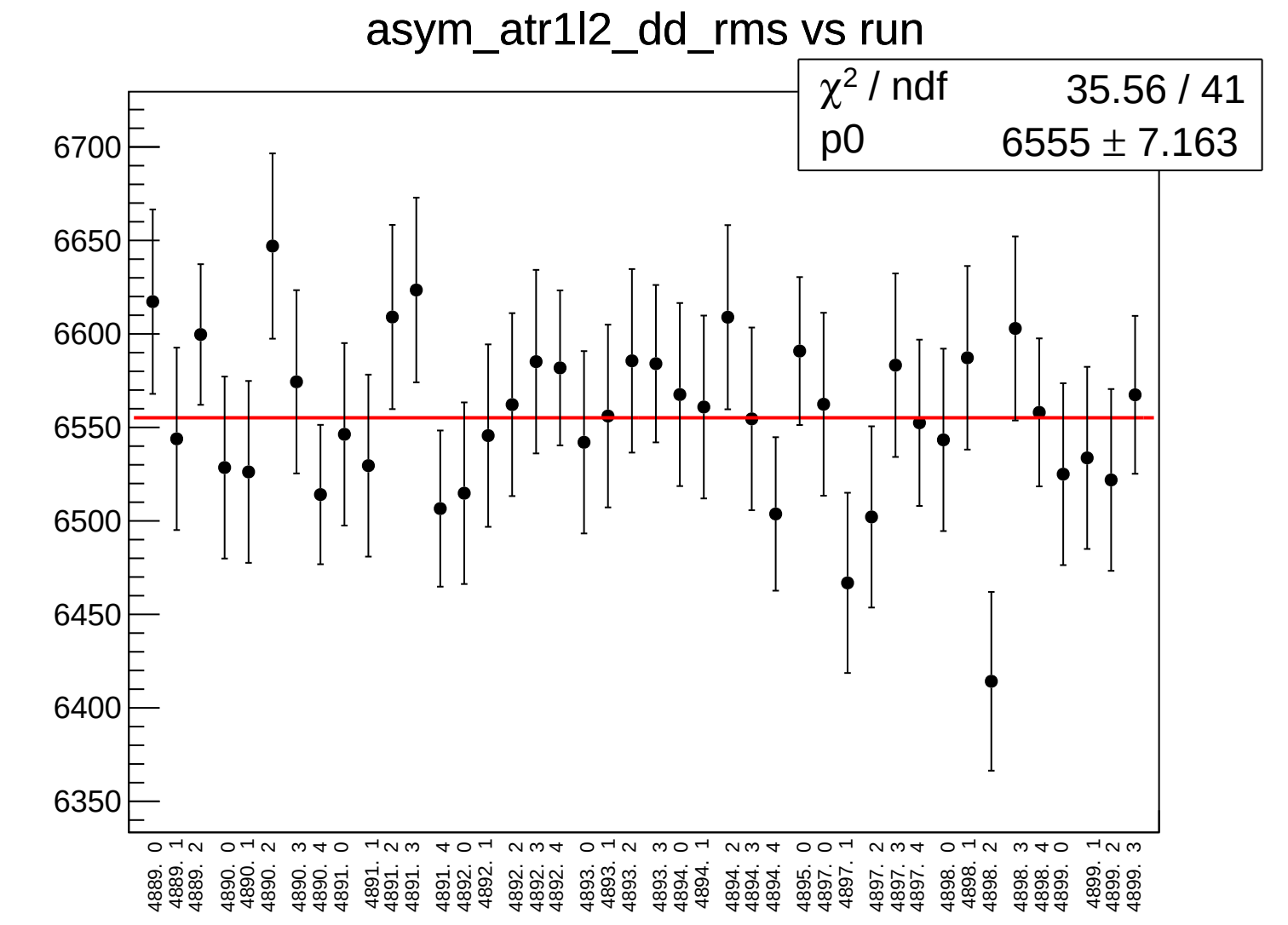

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 35.51 / 41
p0 6542 ± 7.148
6700
6650
6600
6550
6500
6450
6400
6350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

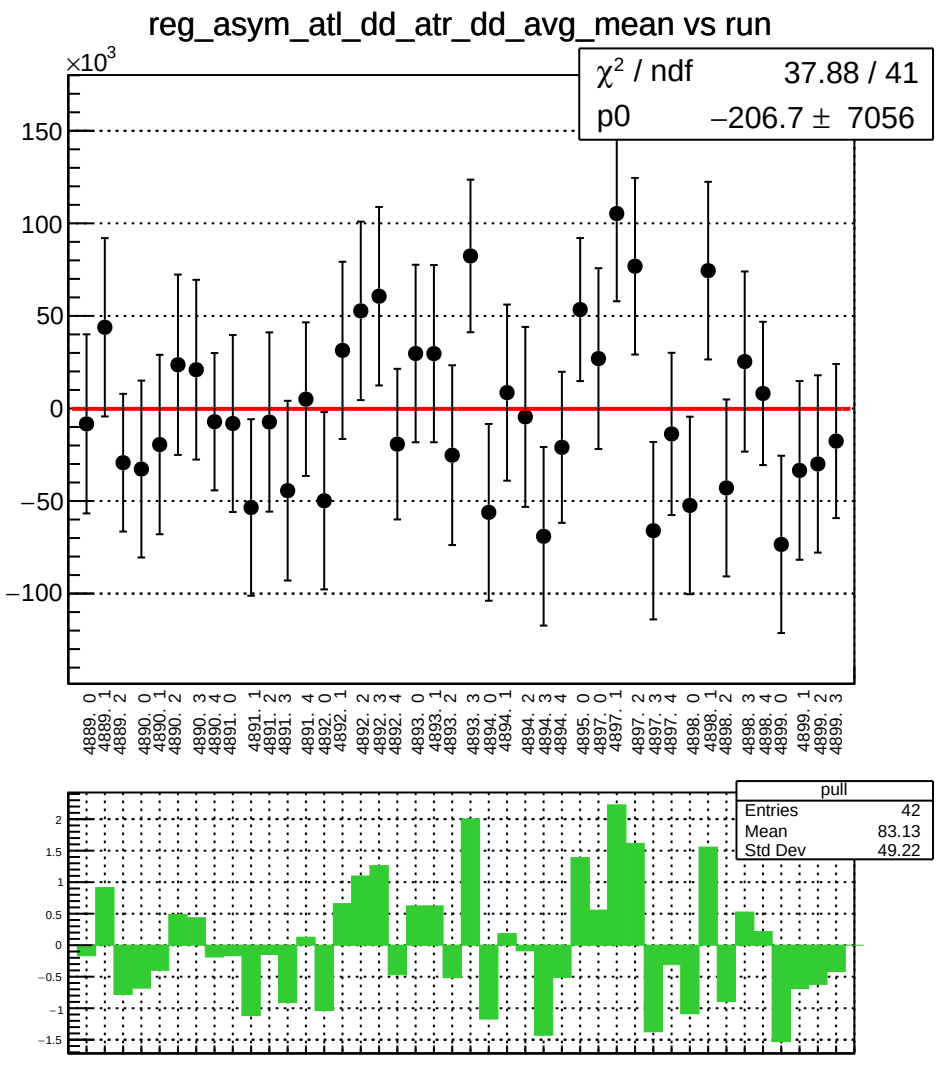

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 39.42 / 41
p0 887.8 ± 631.7
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −242.7
Std Dev 264.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.0106
Std Dev 0.9687
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

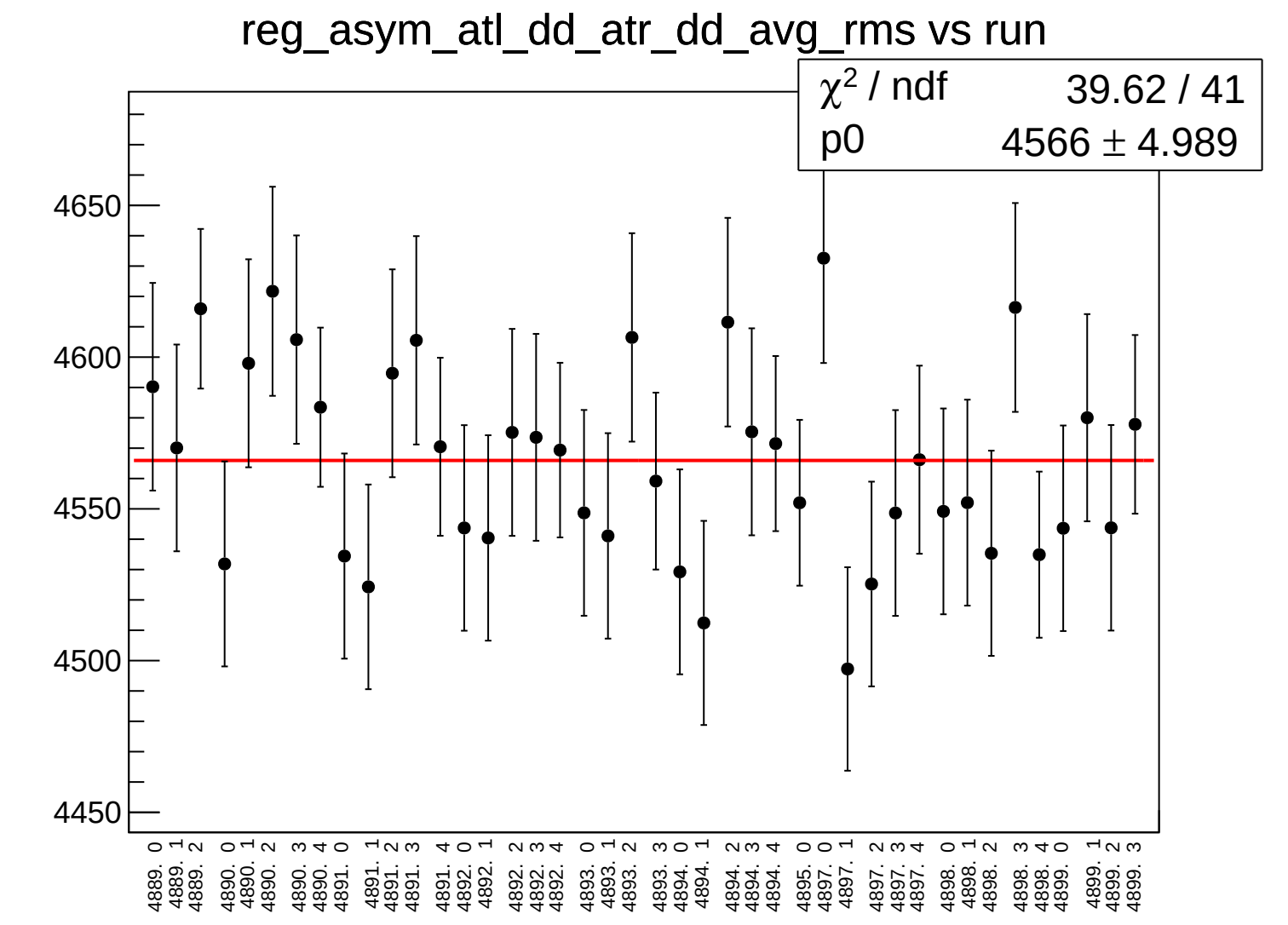

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.358e+04 / 41
p0 405.5 ± 0.4467
550
500
450
400
350
300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

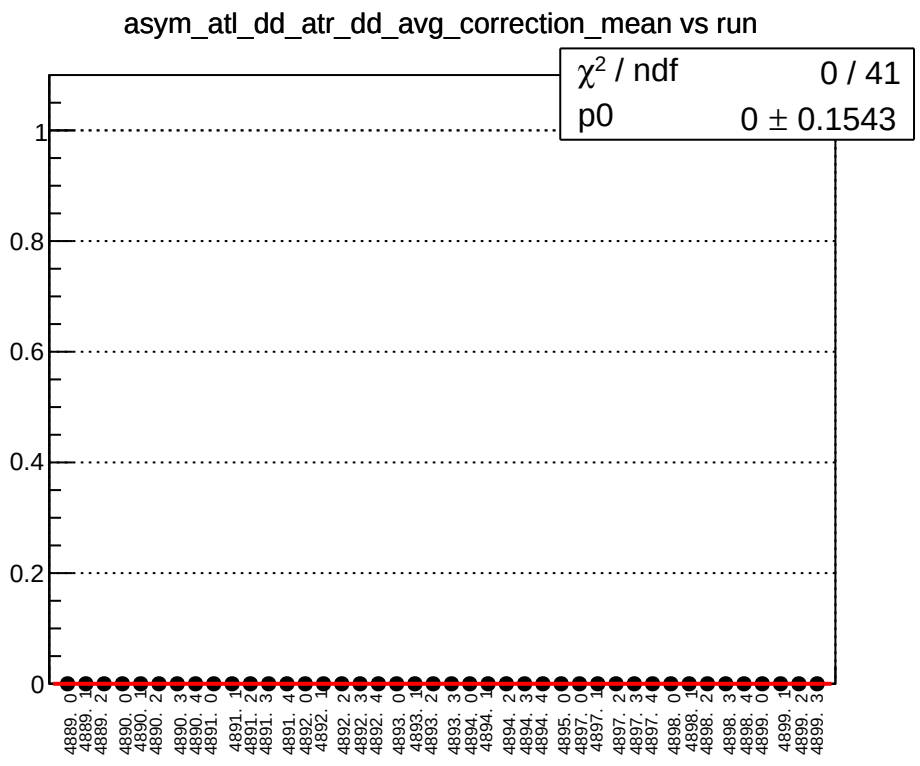

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 37.54 / 41
p0 1.834e+04 ± 1.013e+04
250
200
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −7.684
Std Dev 61.62
2
1.5
1
0.5
0
−0.5
−1
−1.5

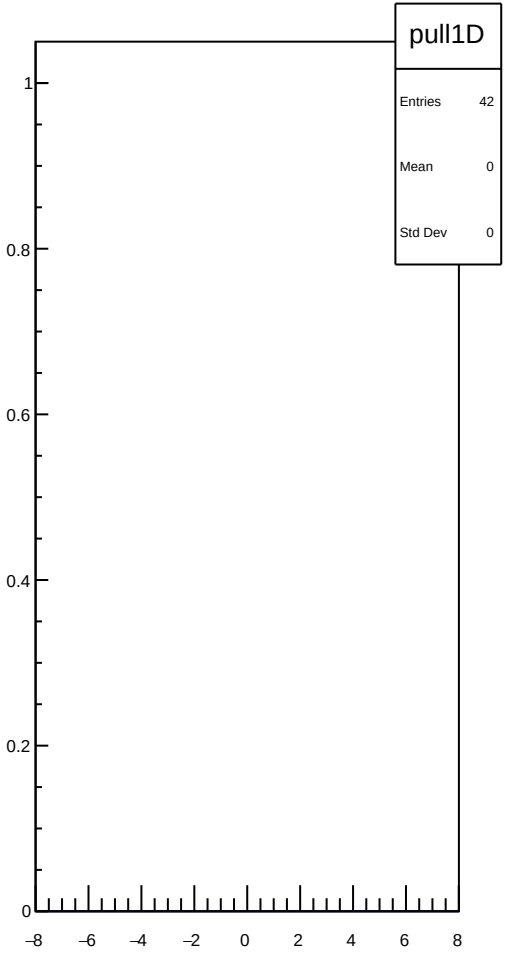

pull1D
Entries 42
Mean −0.01021
Std Dev 0.9454
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

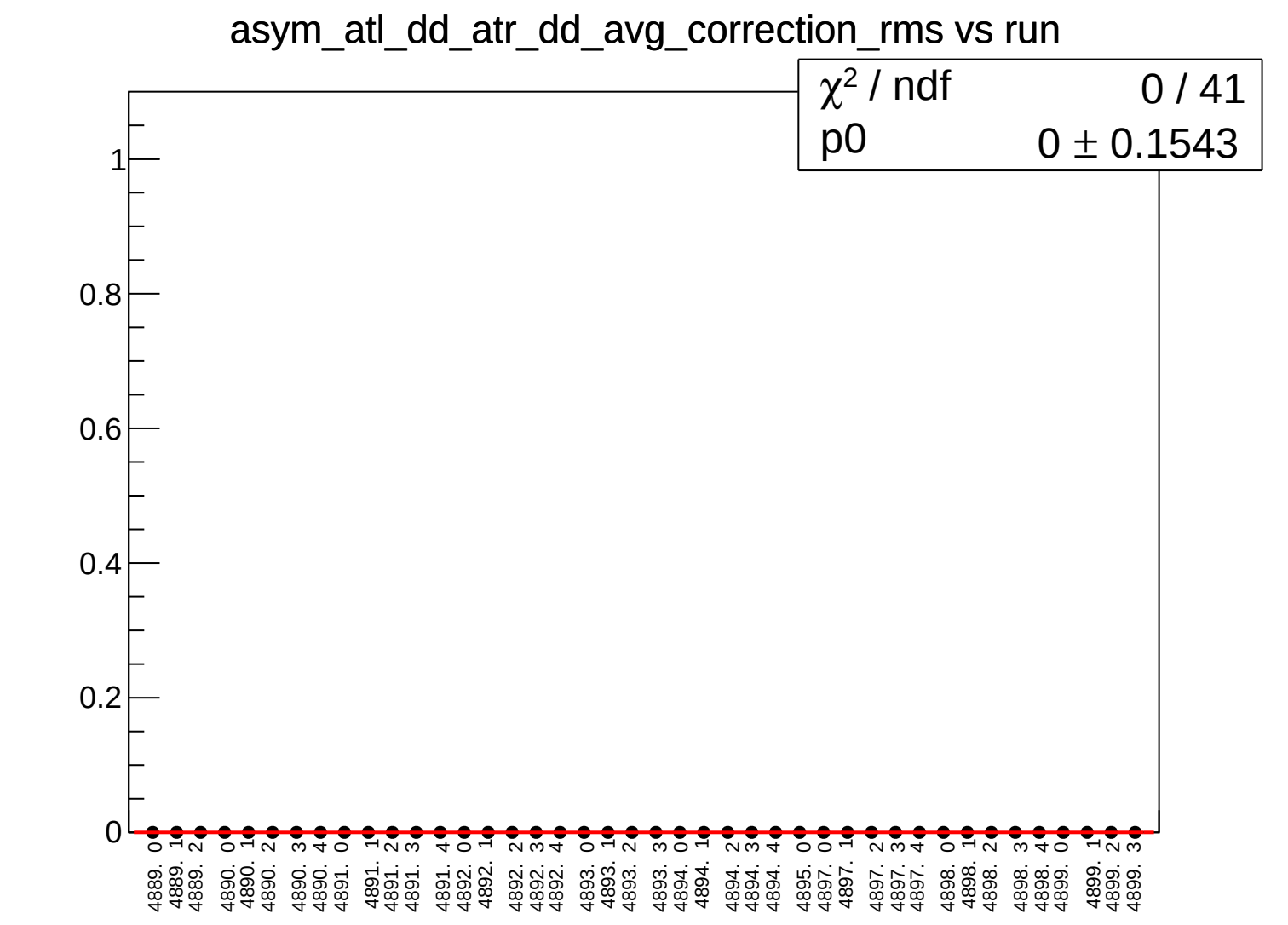

asym_atr1l2_dd_rms vs run
χ² / ndf 35.56 / 41
p0 6555 ± 7.163
6700
6650
6600
6550
6500
6450
6400
6350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

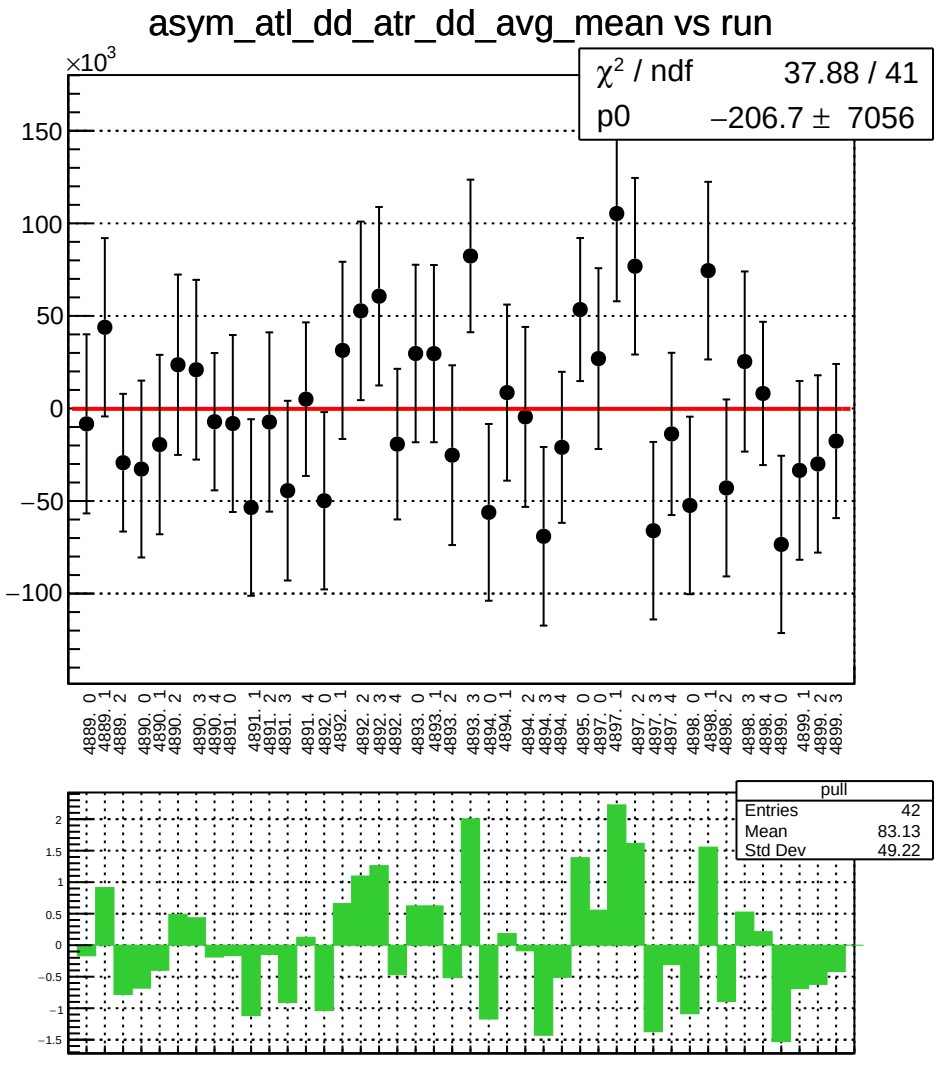

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.88 / 41
p0 −206.7 ± 7056
150
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 83.13
Std Dev 49.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.004605
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

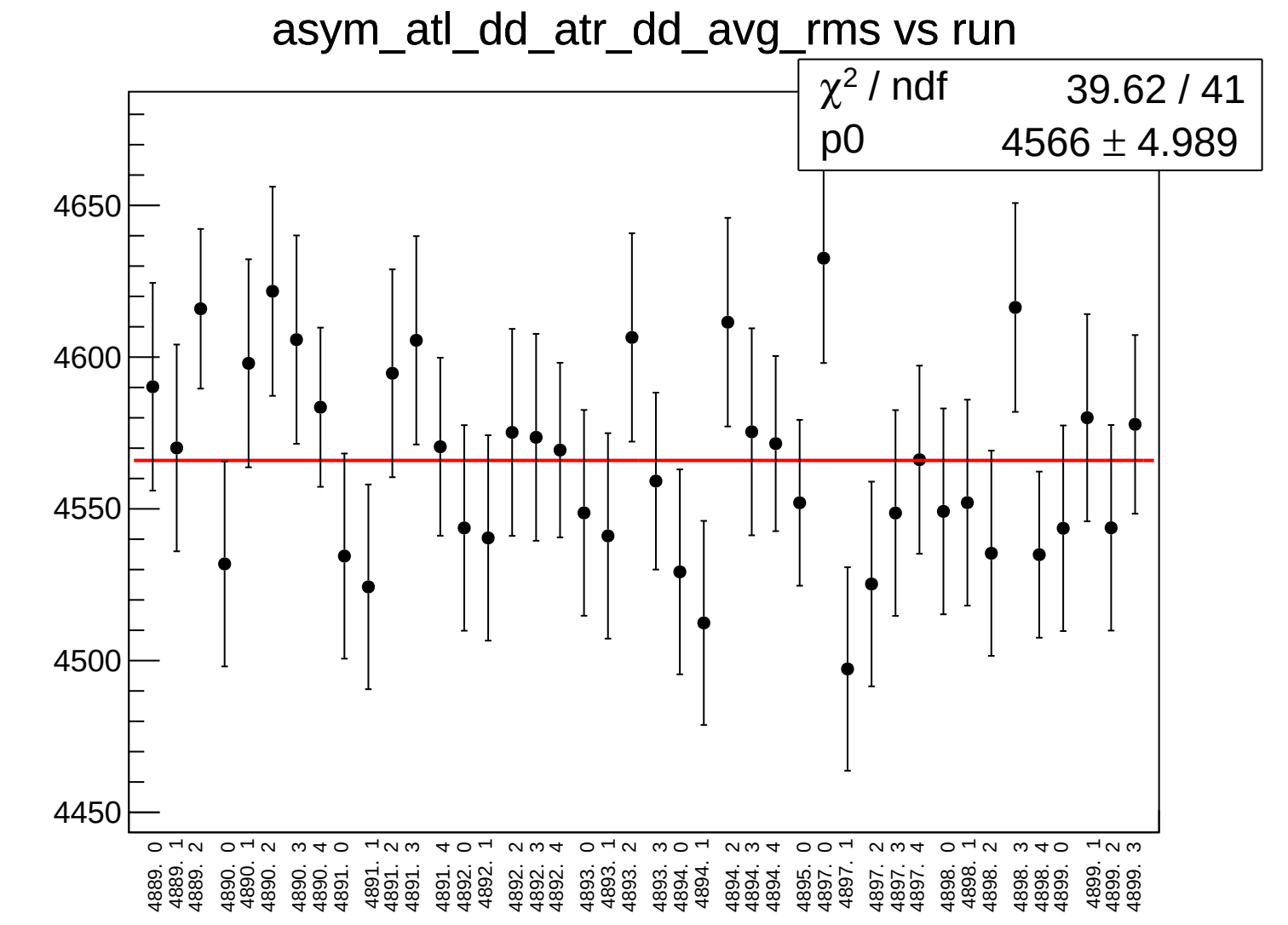

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 39.62 / 41
p0 4566 ± 4.989
4650
4600
4550
4500
4450
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

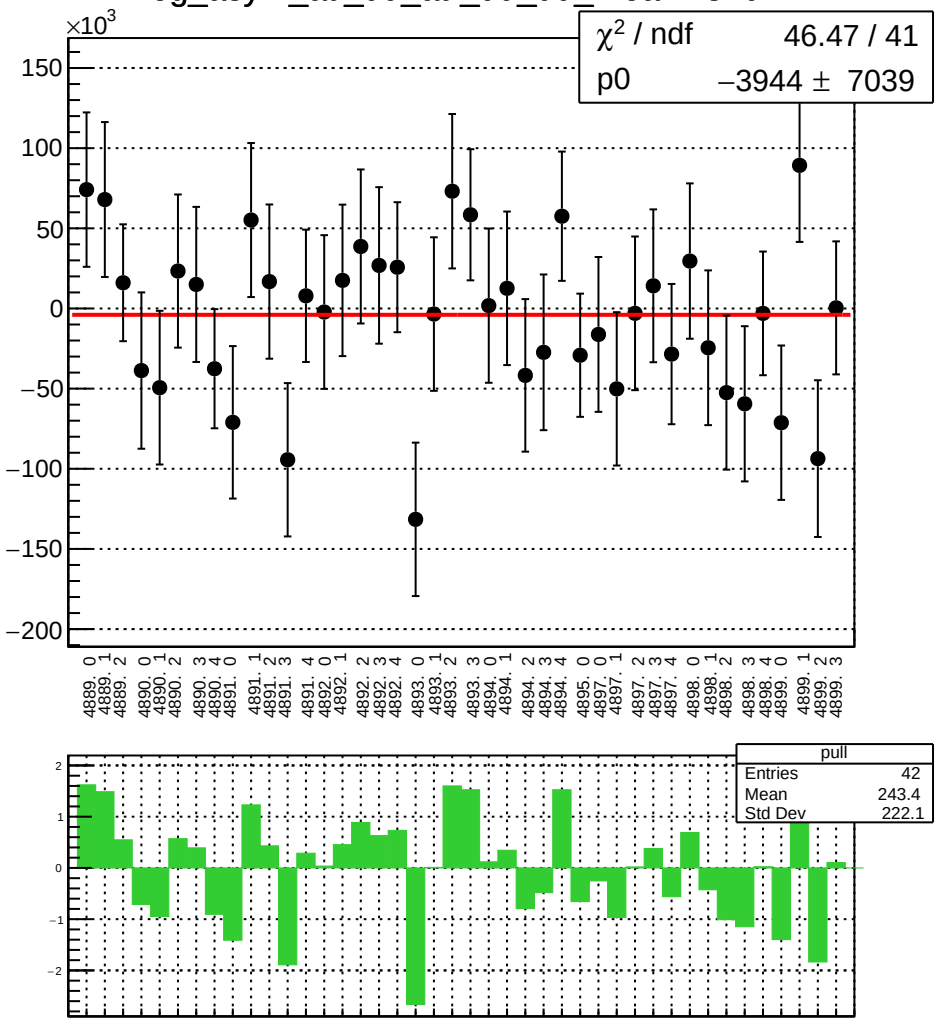

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

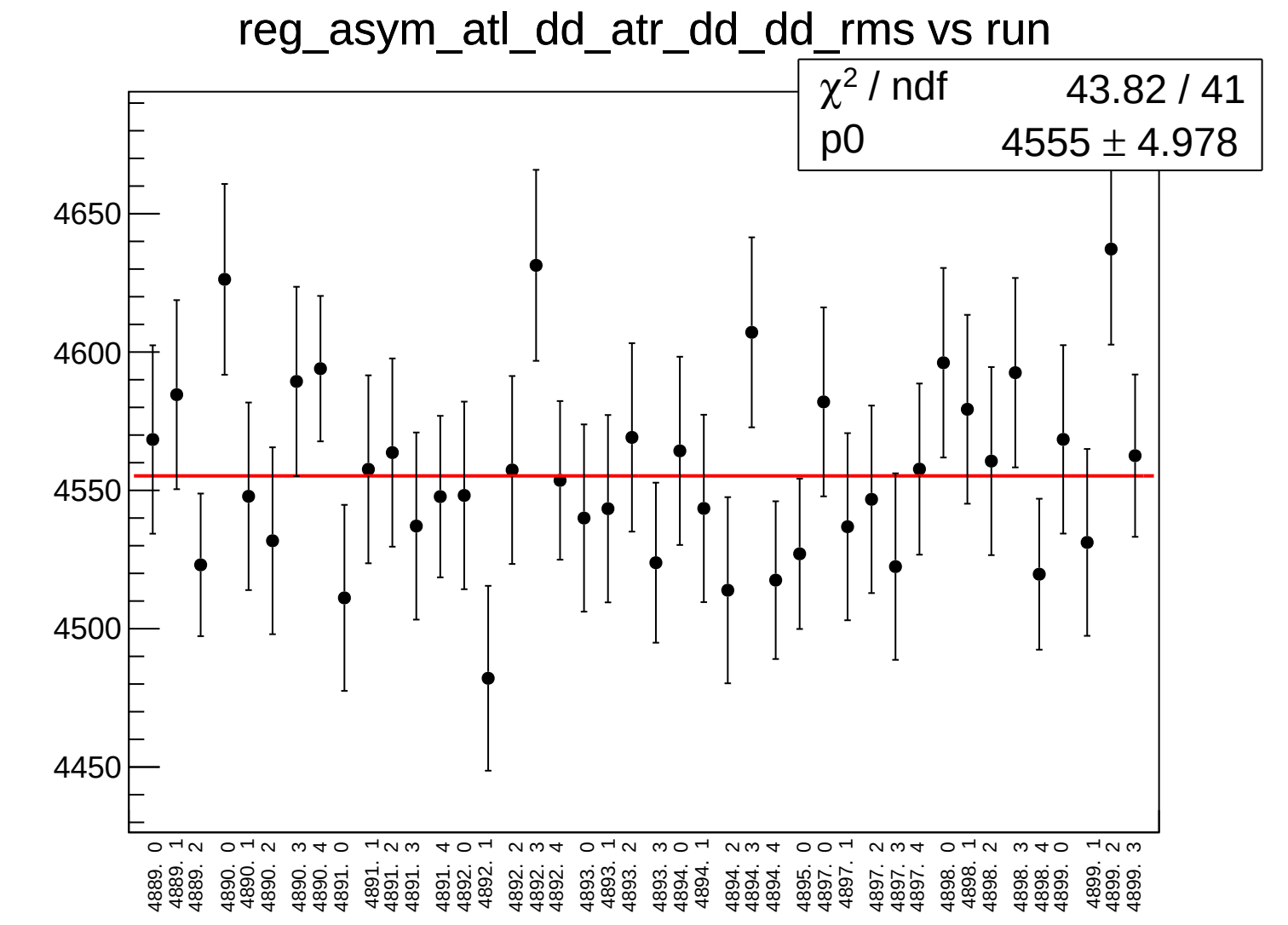

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

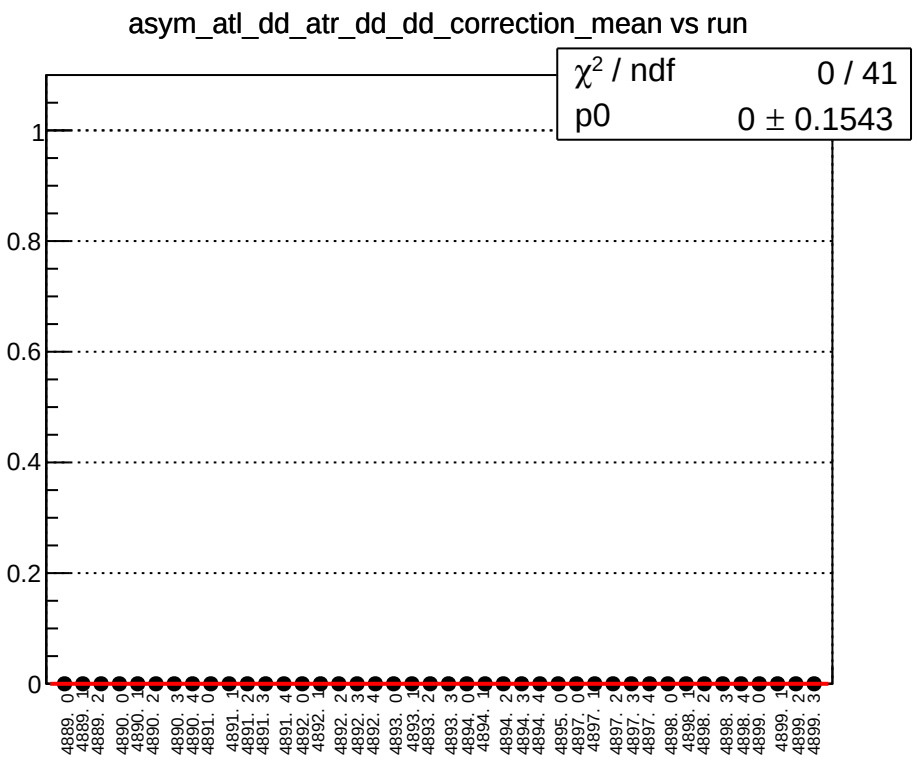

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

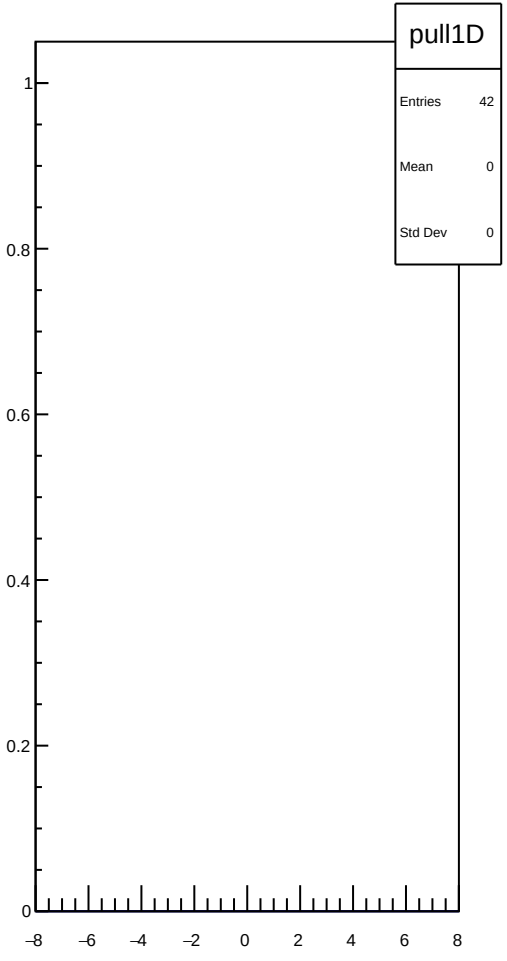

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.88 / 41
p0 −206.7 ± 7056
150
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 83.13
Std Dev 49.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.004605
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

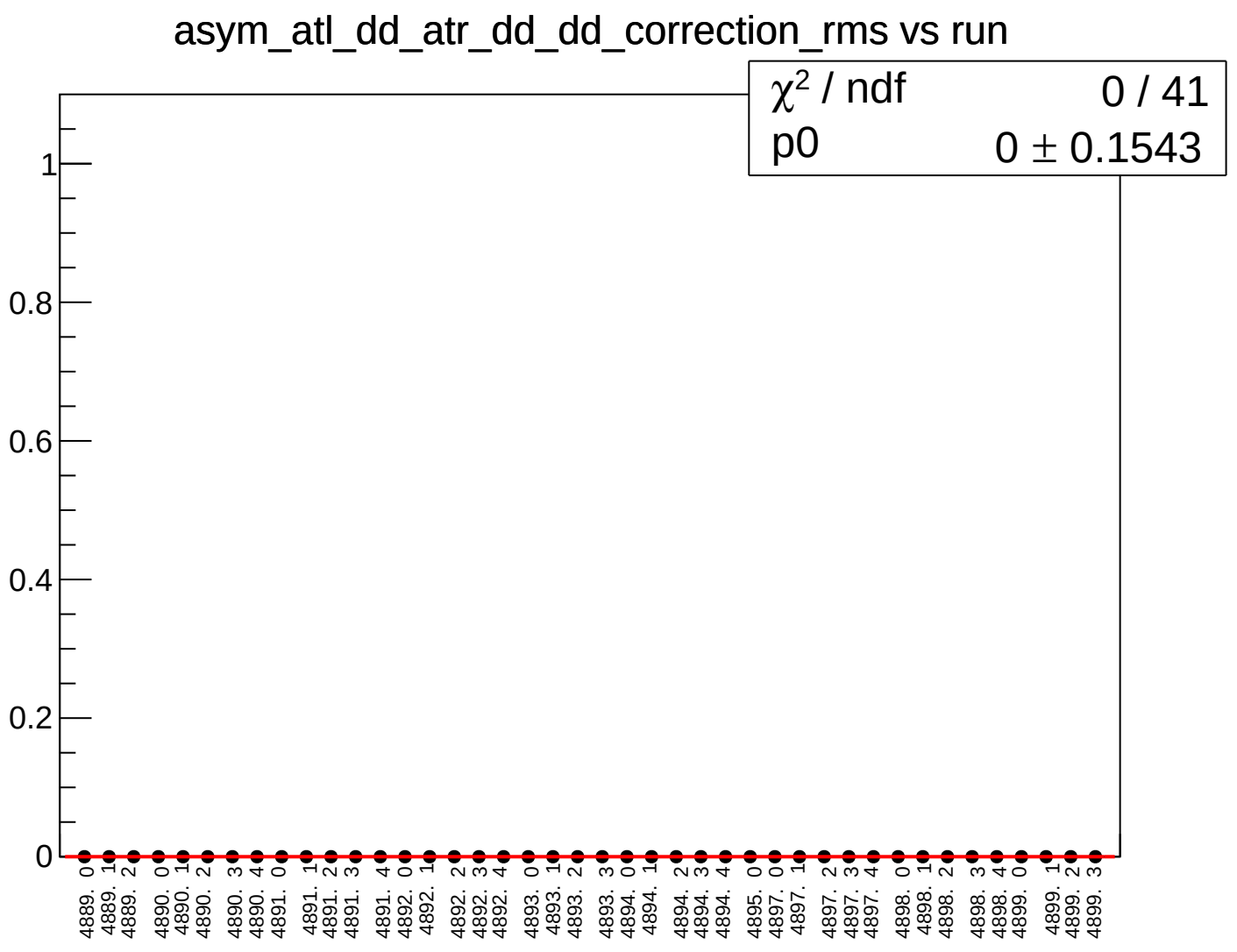

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 39.62 / 41
p0 4566 ± 4.989
4650
4600
4550
4500
4450
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

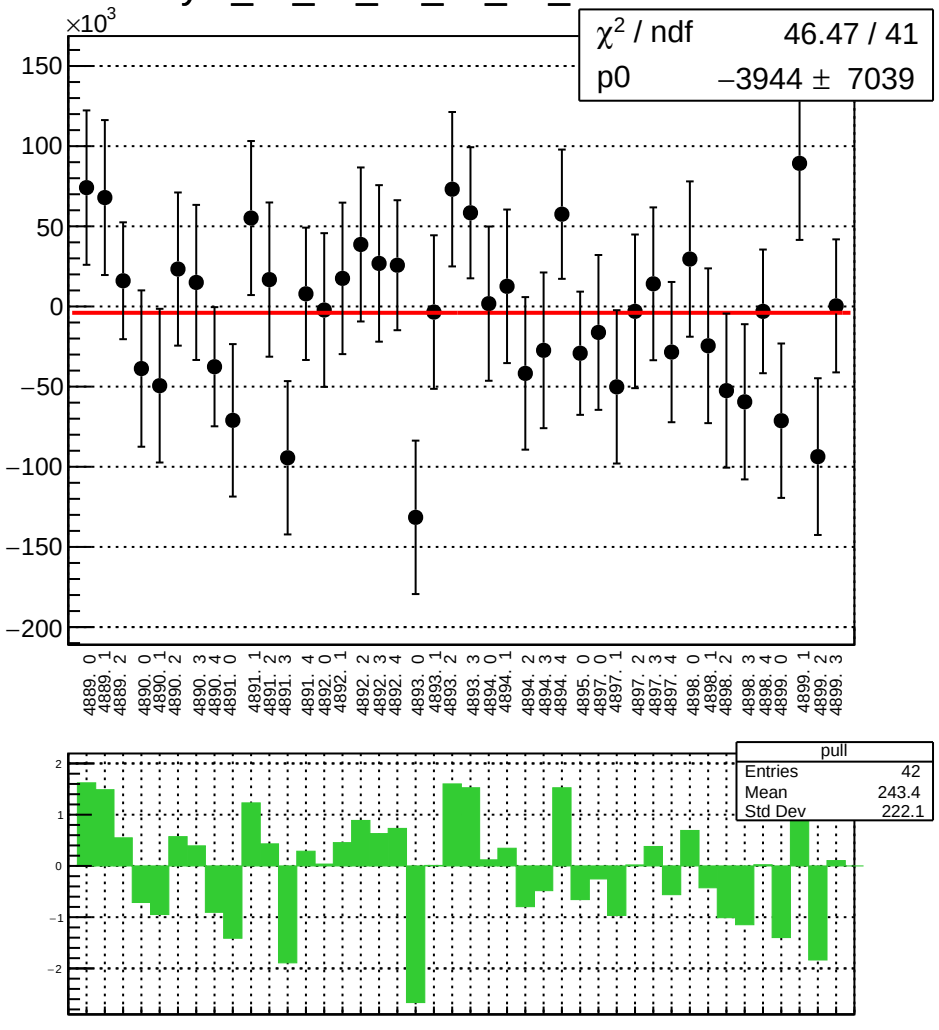

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 46.47 / 41
p0 −3944 ± 7039
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 243.4
Std Dev 222.1
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01095
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

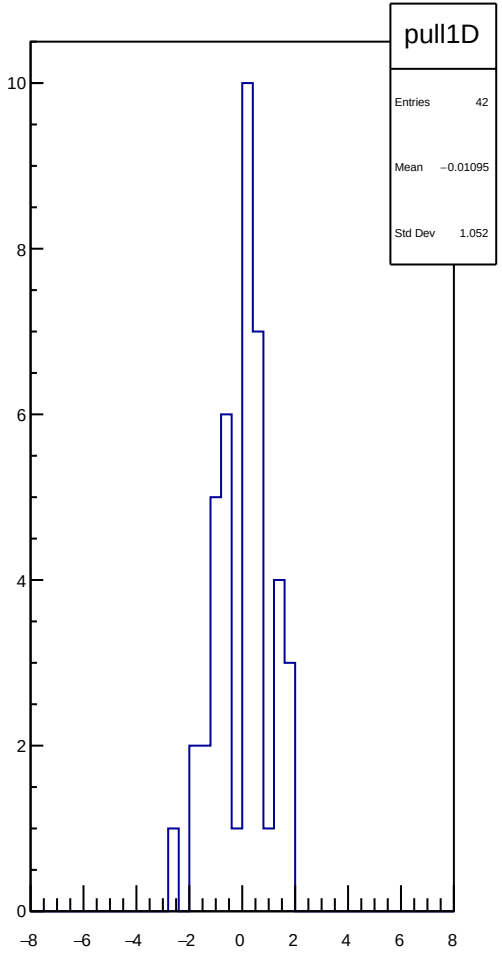

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 43.82 / 41
p0 4555 ± 4.978
4650
4600
4550
4500
4450
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

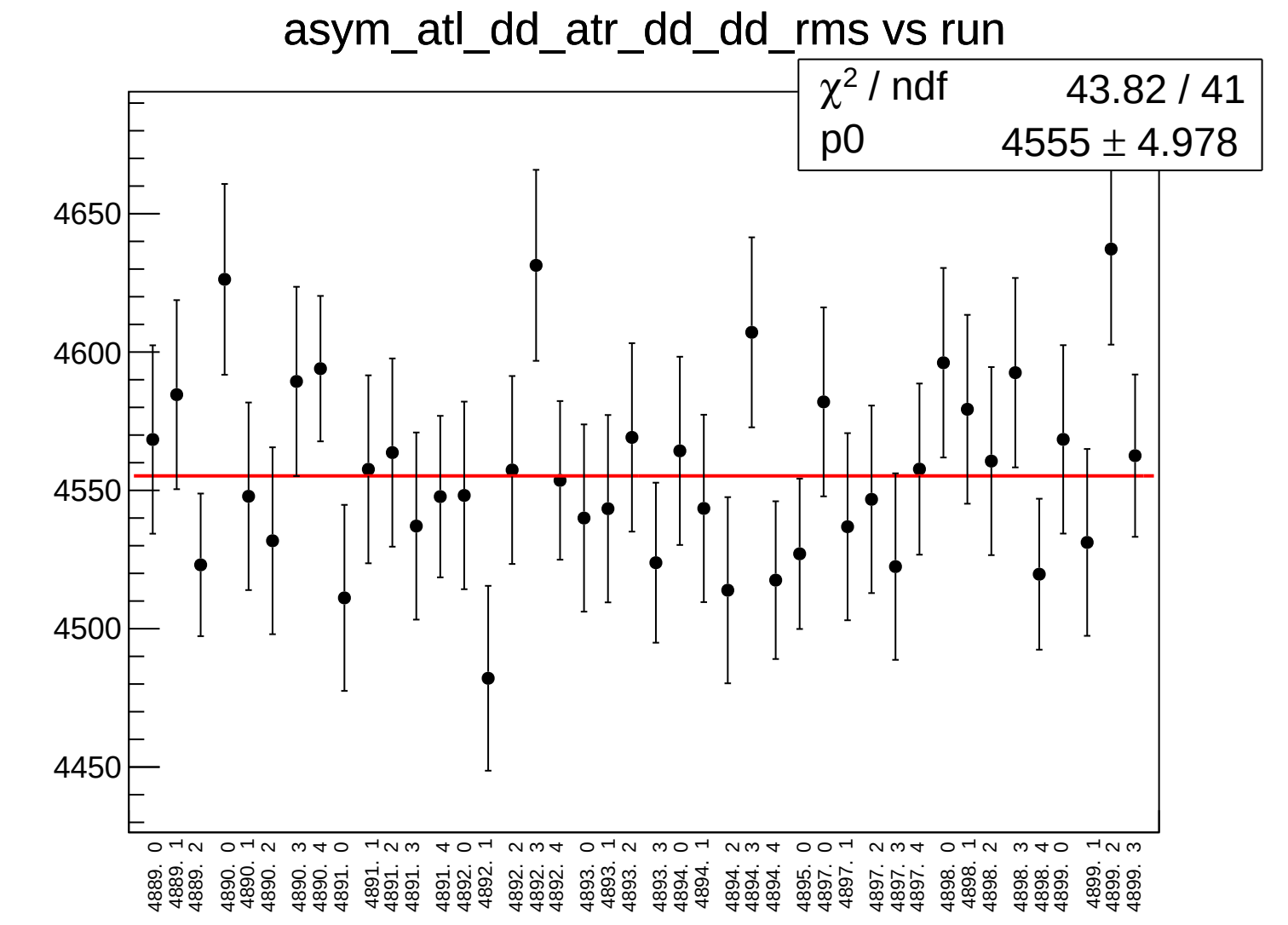

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

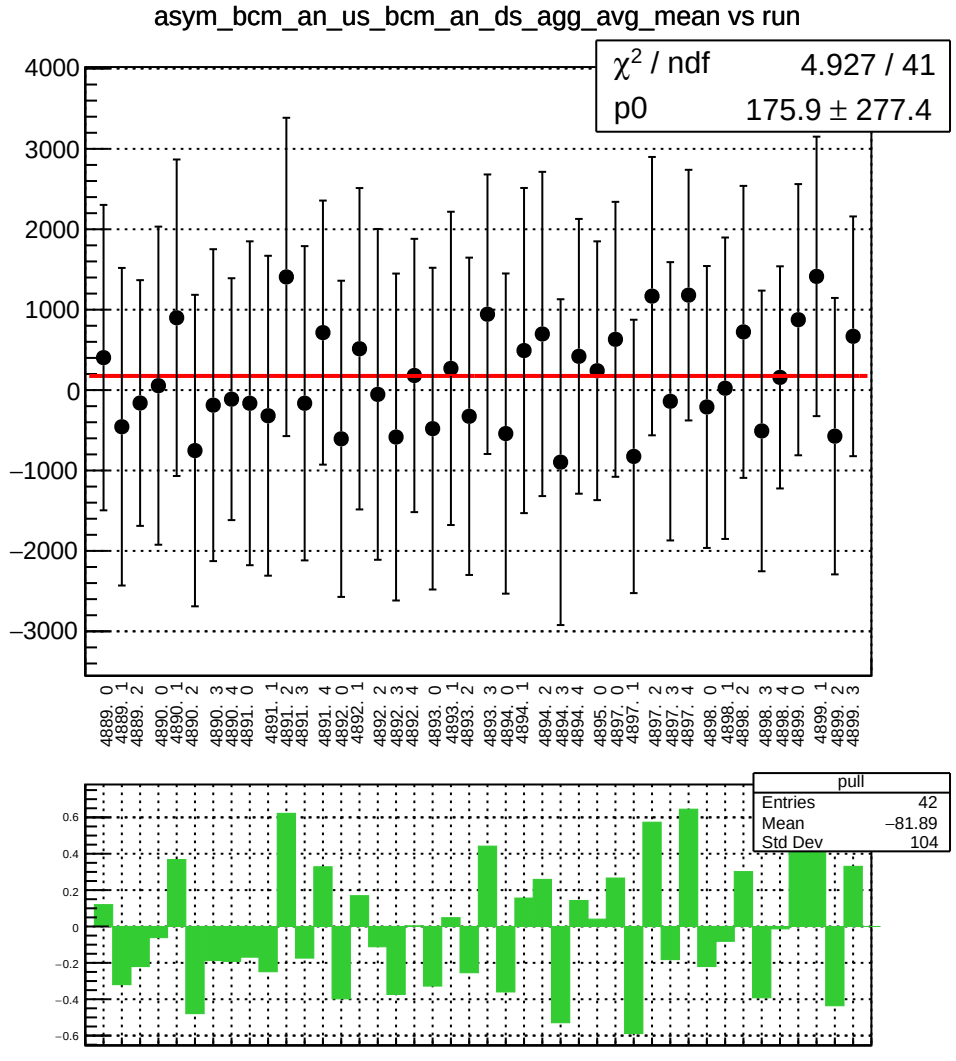

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

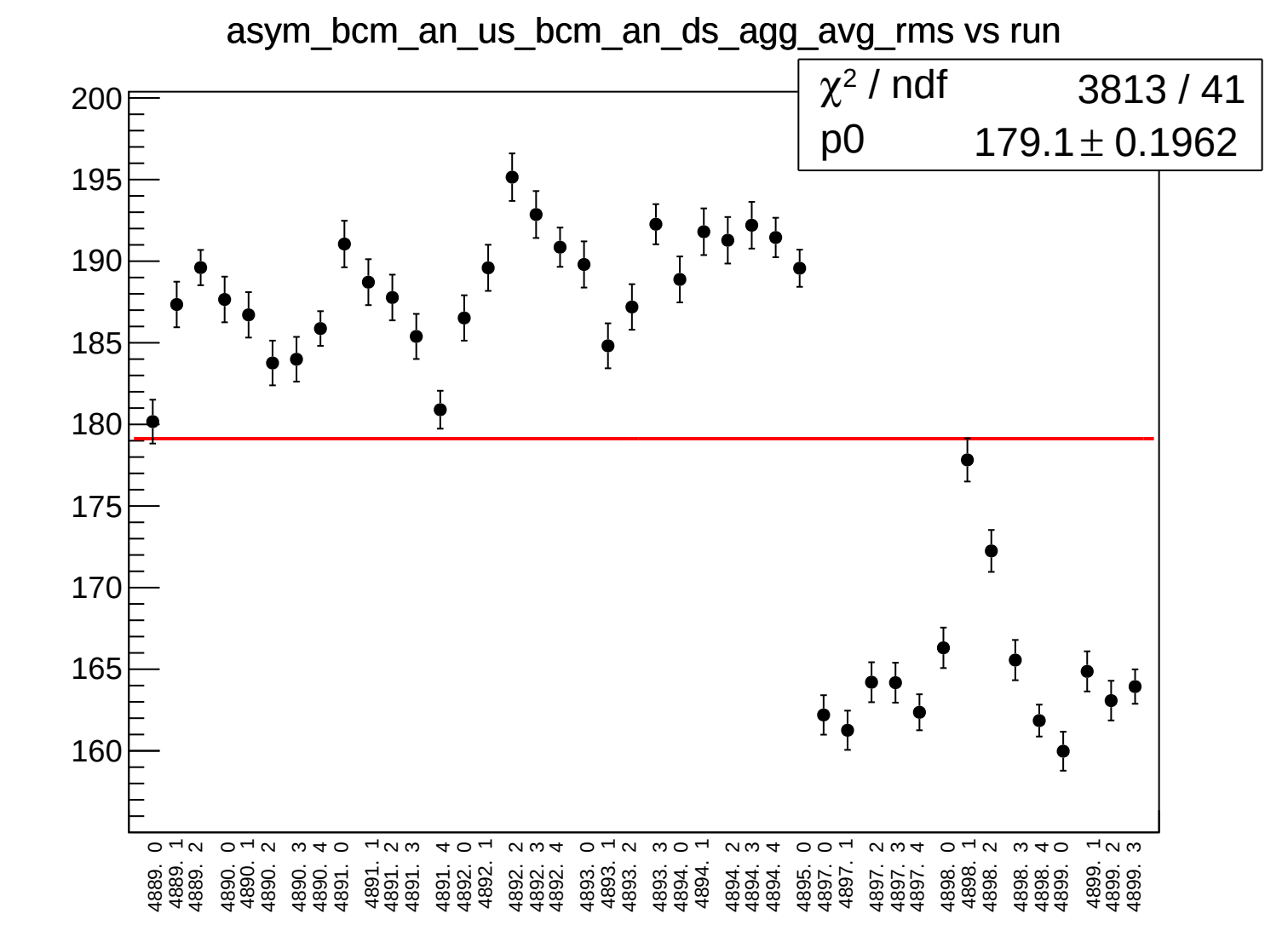

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

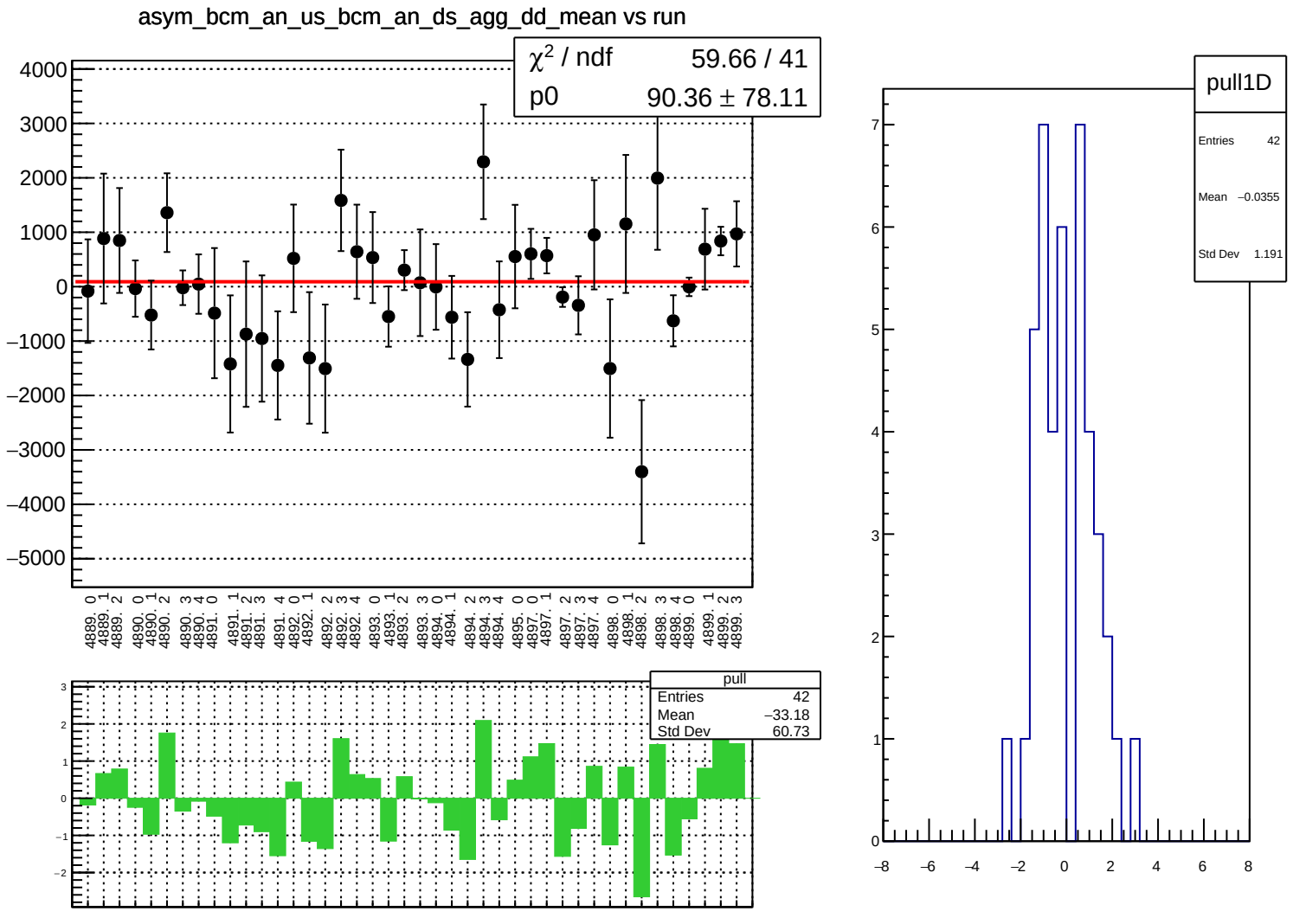

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 46.47 / 41
p0 −3944 ± 7039
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 243.4
Std Dev 222.1
2
1
0
−1
−2

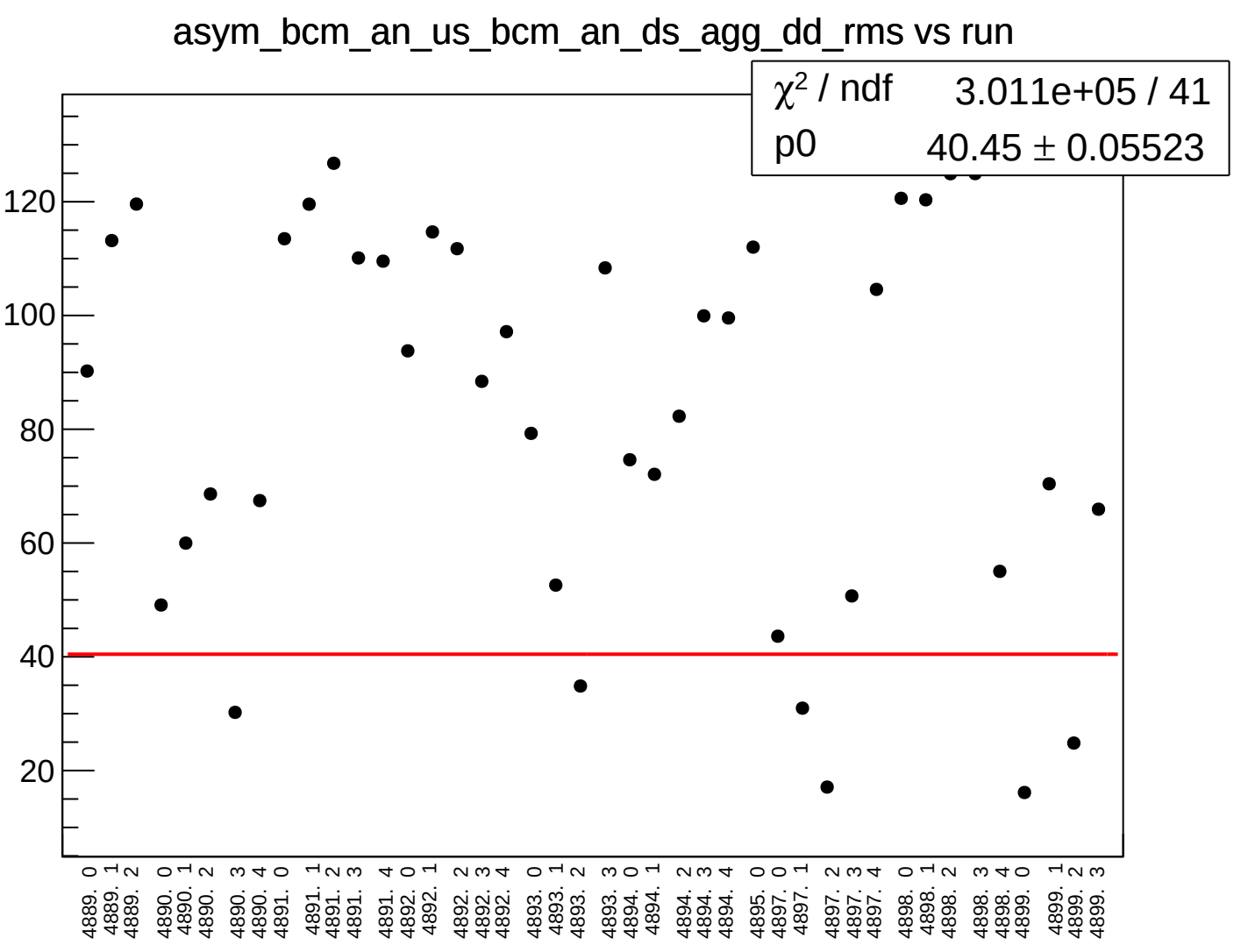

pull1D
Entries 42
Mean −0.01095
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

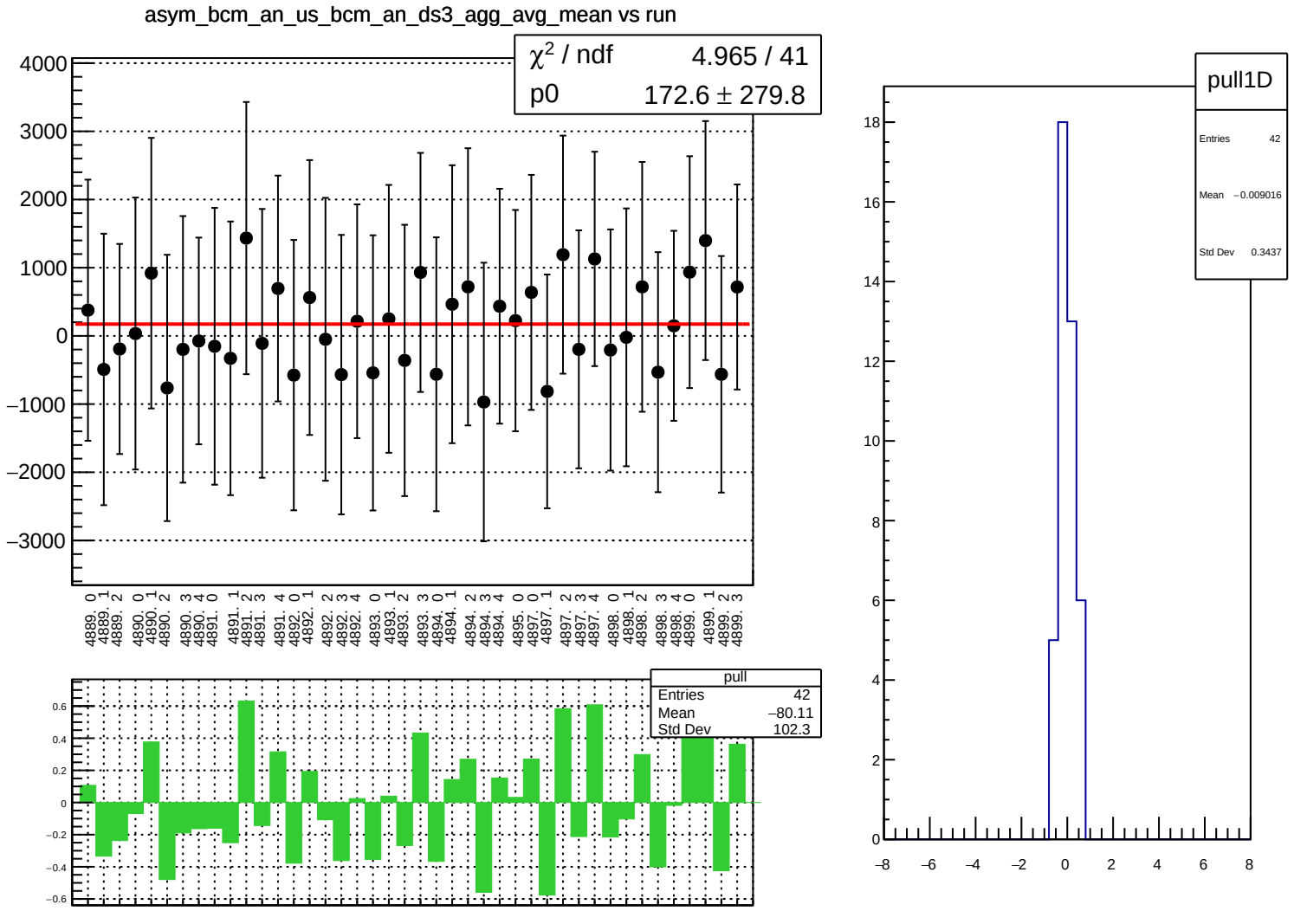

asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 43.82 / 41
p0 4555 ± 4.978
4650
4600
4550
4500
4450
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

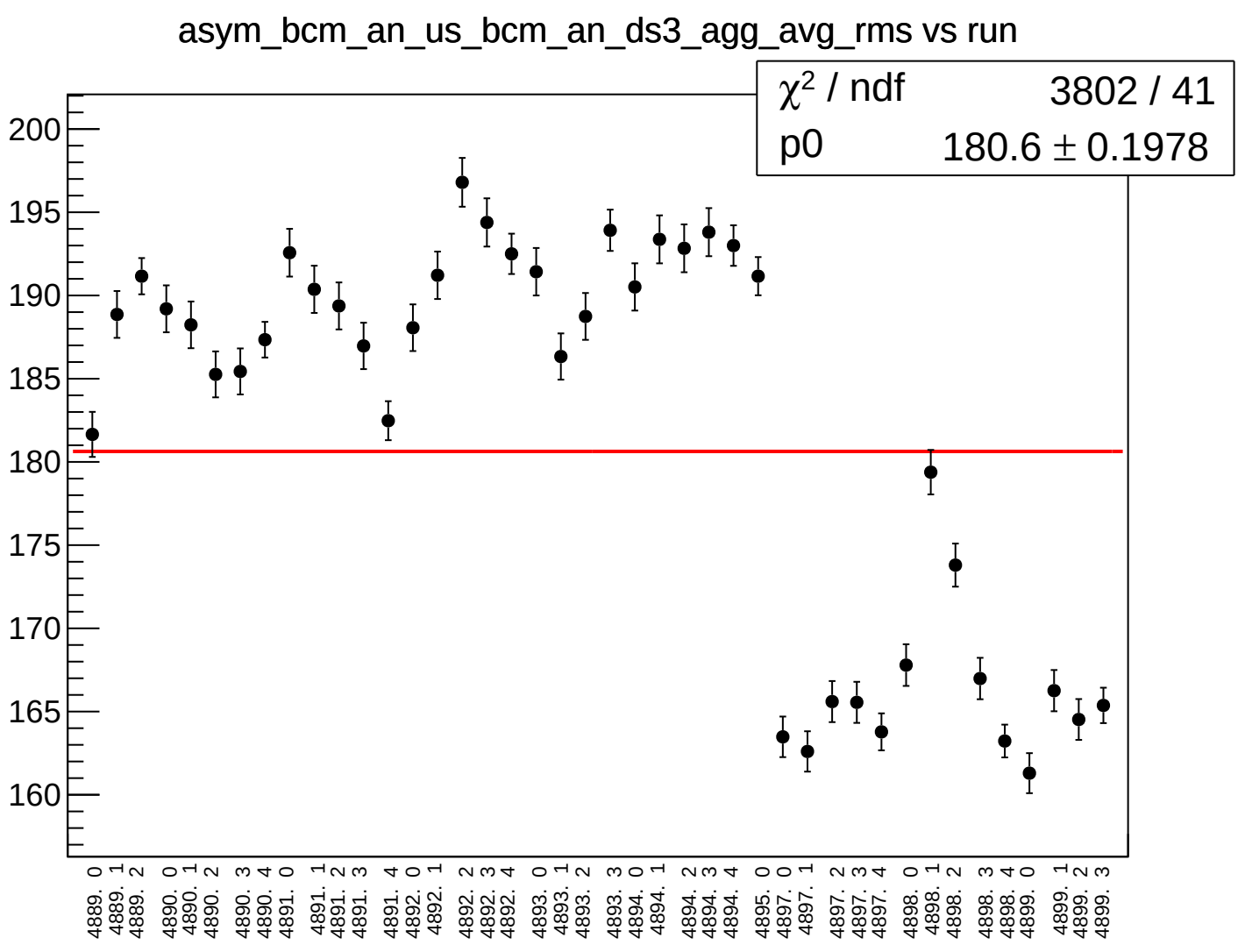

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.927 / 41
p0 175.9 ± 277.4
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −81.89
Std Dev 104
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.008903
Std Dev 0.3424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

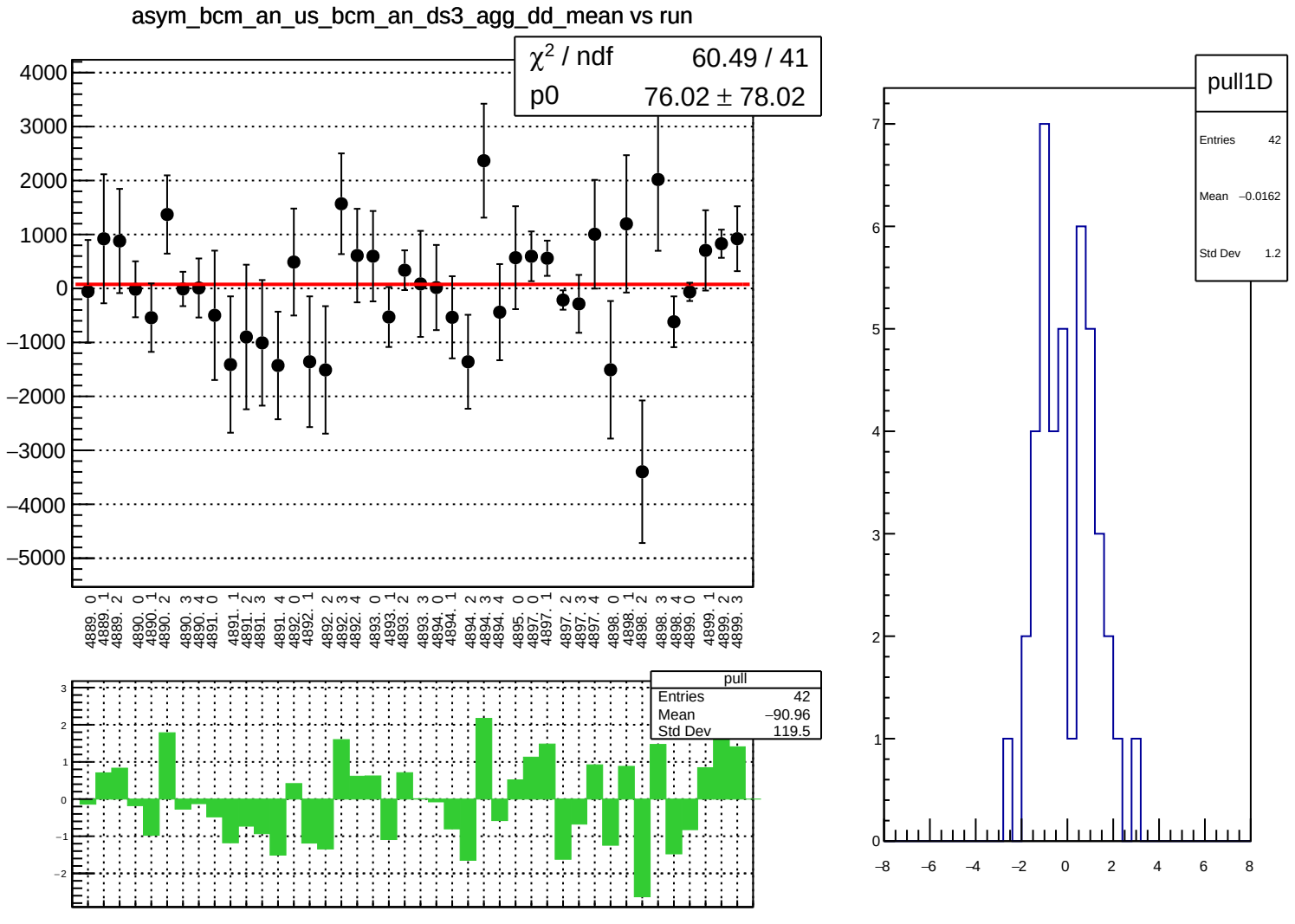

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3813 / 41
p0 179.1 ± 0.1962
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

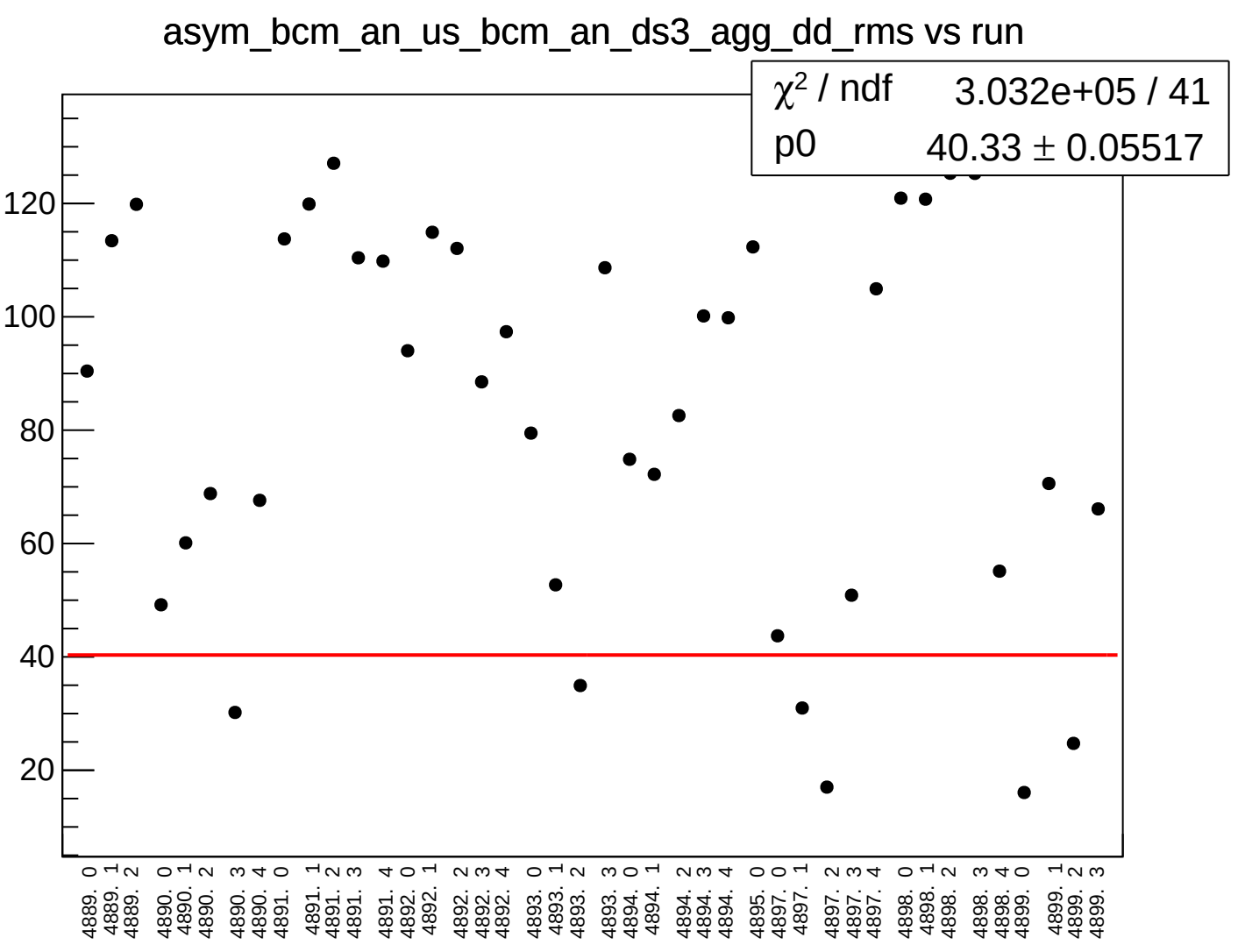

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 59.66 / 41
p0 90.36 ± 78.11
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −33.18
Std Dev 60.73
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.0355
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

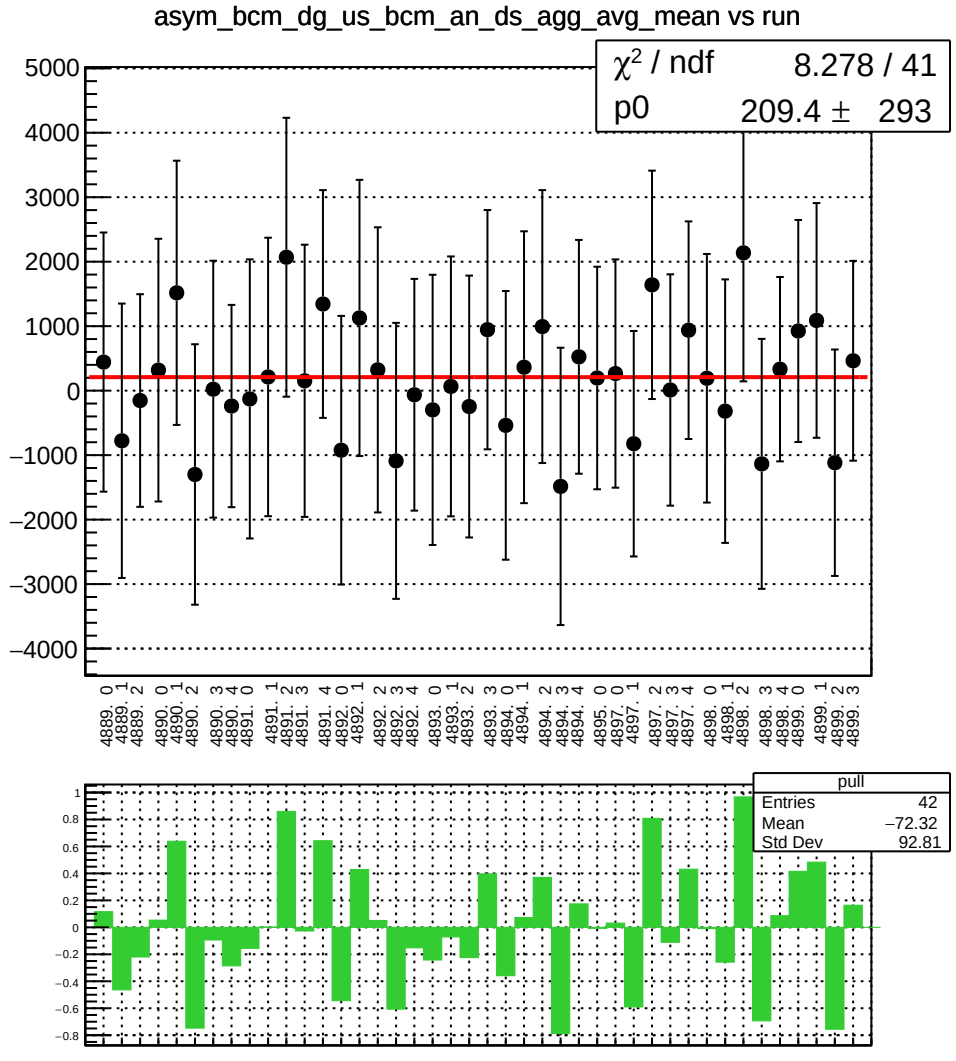

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.011e+05 / 41
p0 40.45 ± 0.05523
120
100
80
60
40
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

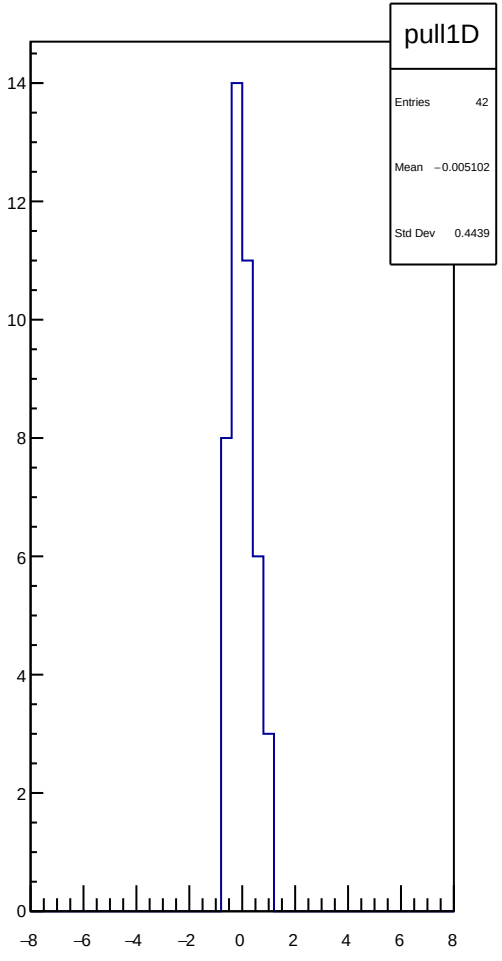

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 4.965 / 41
p0 172.6 ± 279.8
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −80.11
Std Dev 102.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.009016
Std Dev 0.3437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

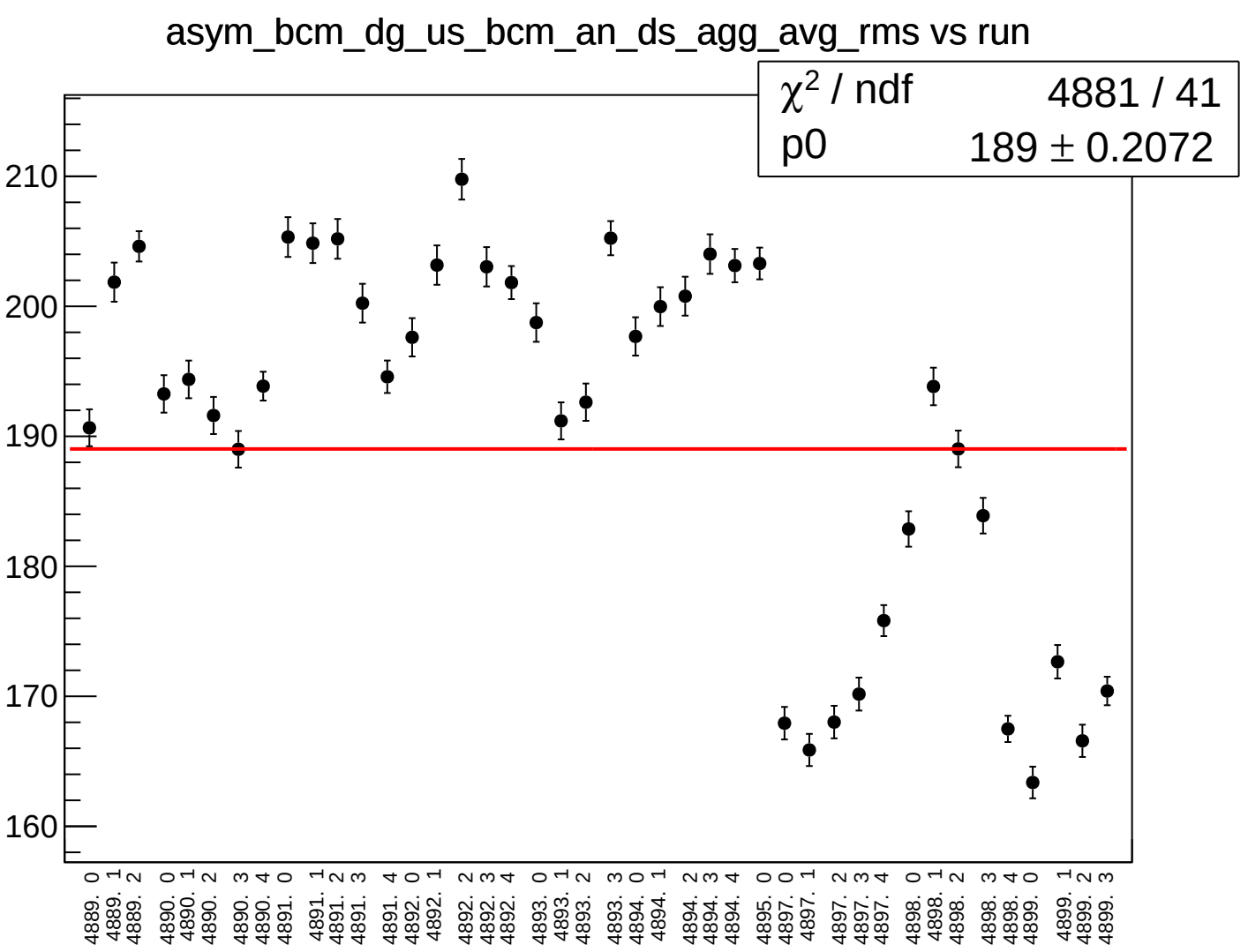

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3802 / 41
p0 180.6 ± 0.1978
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

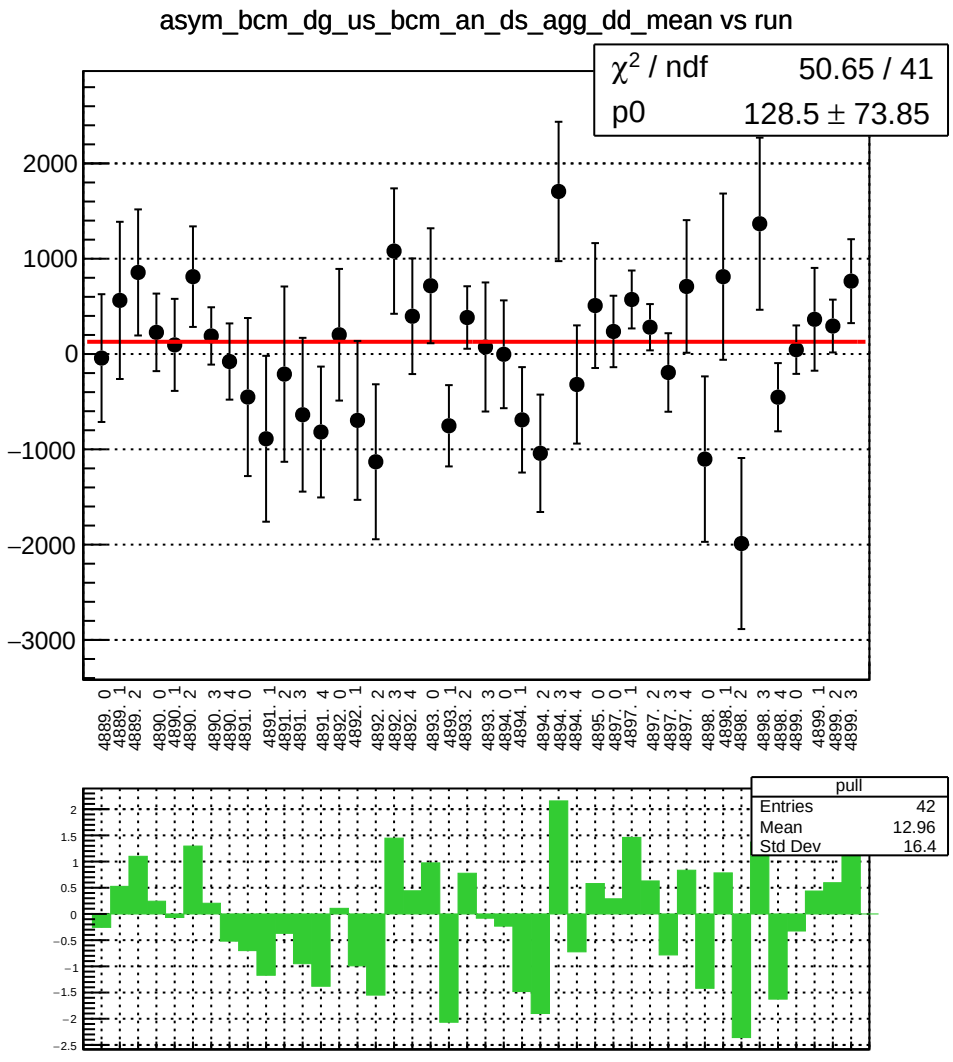

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 60.49 / 41
p0 76.02 ± 78.02
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −90.96
Std Dev 119.5
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.0162
Std Dev 1.2
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

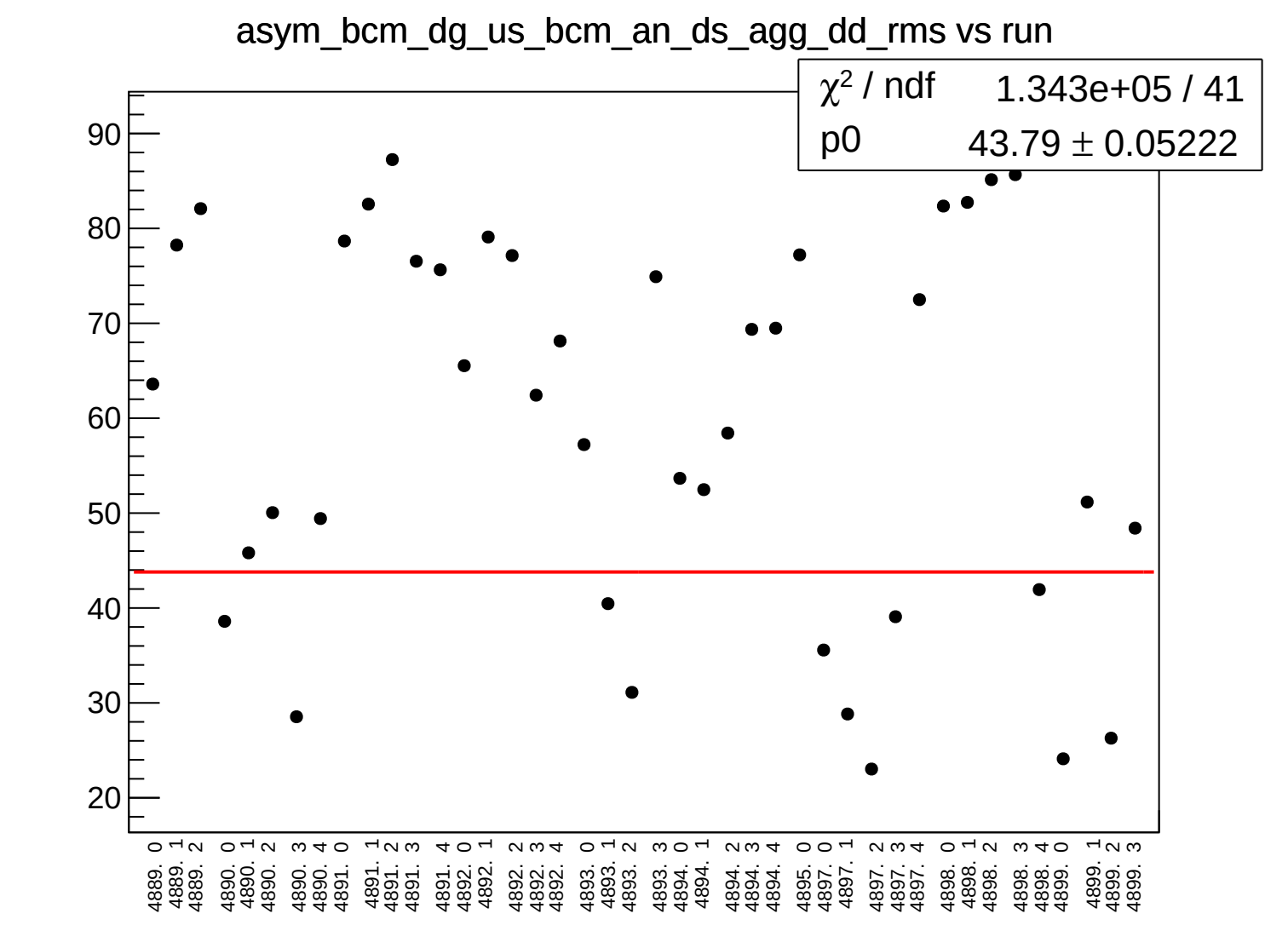

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.032e+05 / 41
p0 40.33 ± 0.05517
120
100
80
60
40
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

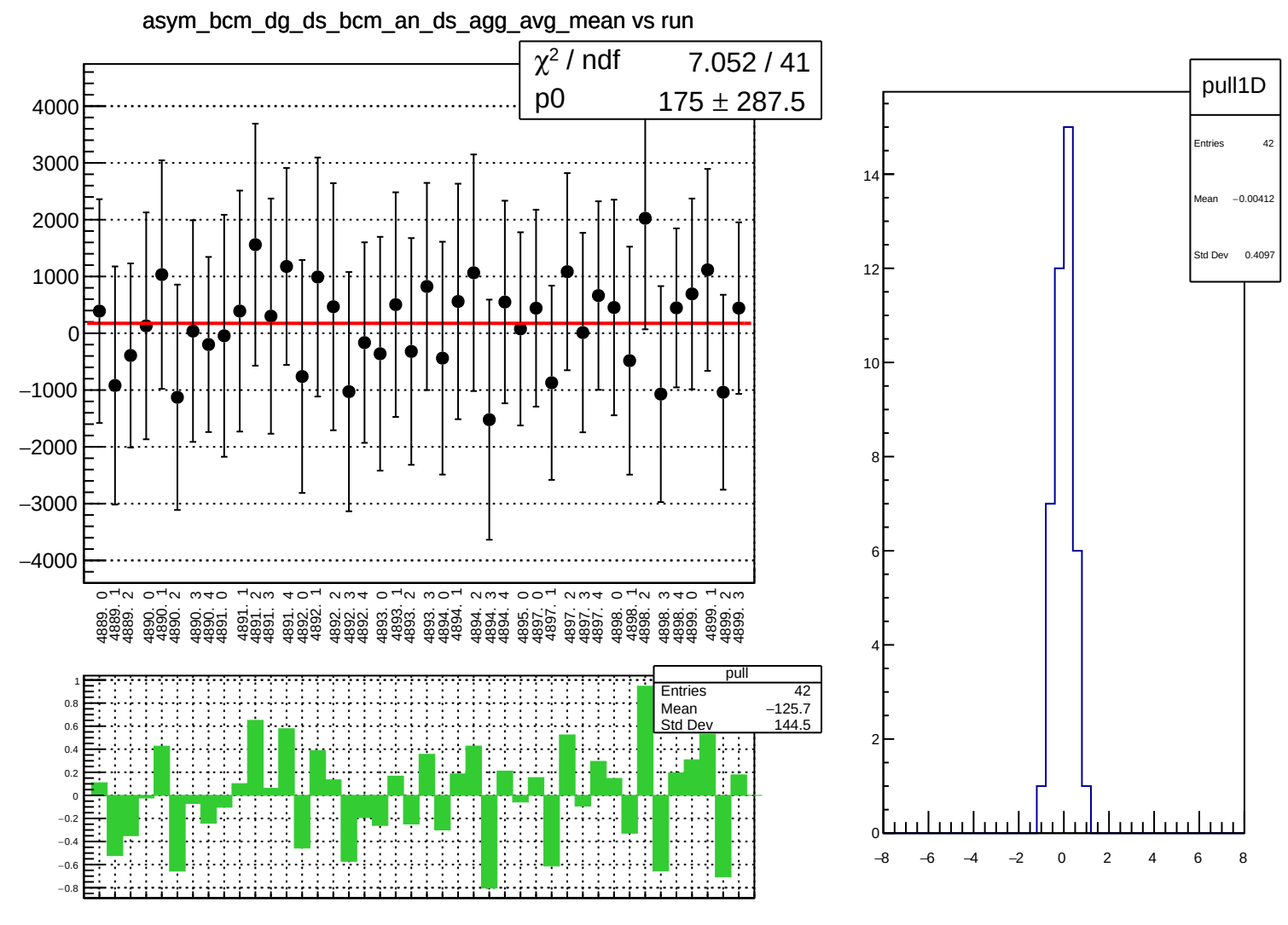

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.278 / 41
p0 209.4 ± 293
pull
Entries 42
Mean −72.32
Std Dev 92.81

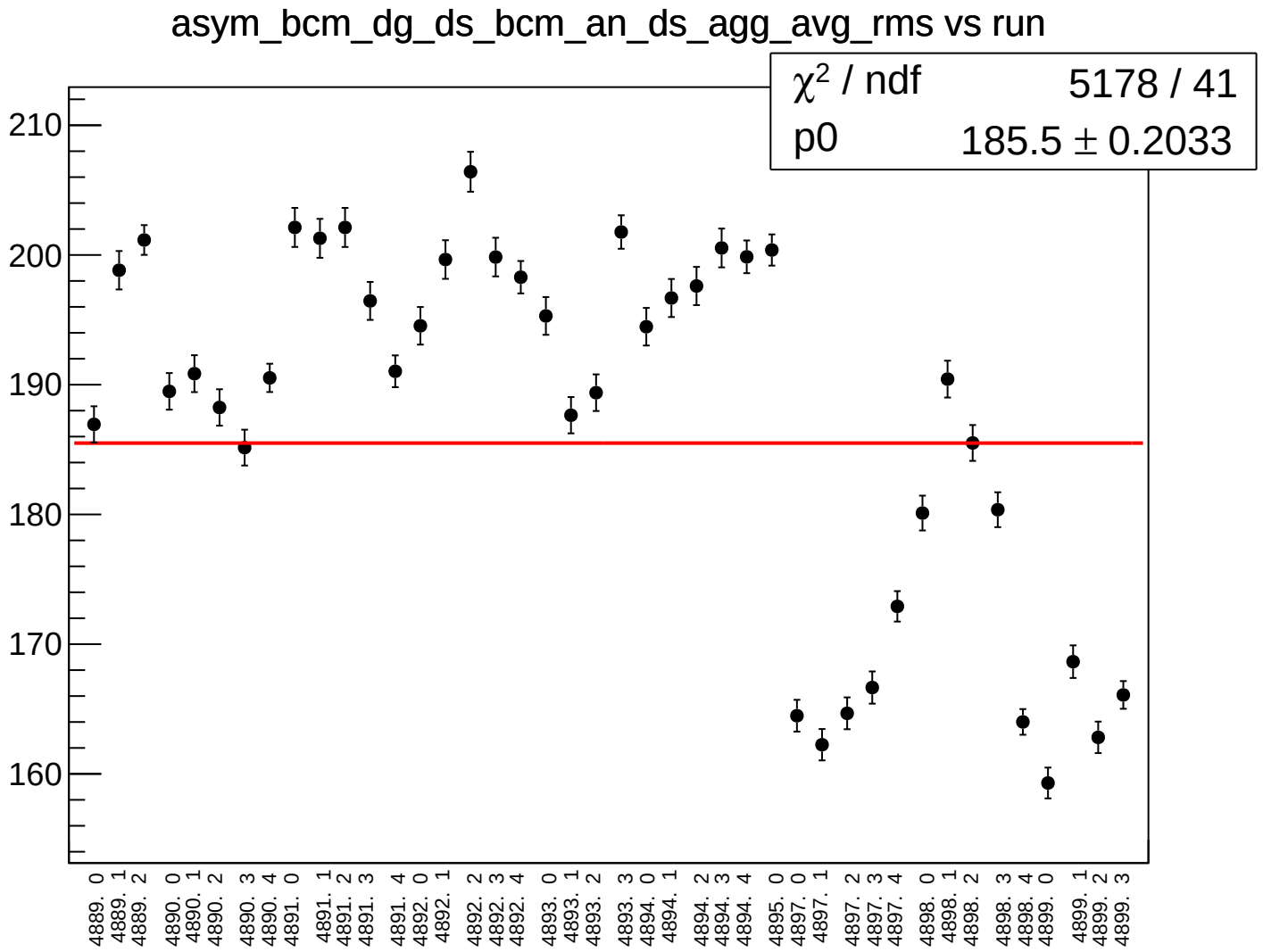

pull1D
Entries 42
Mean −0.005102
Std Dev 0.4439

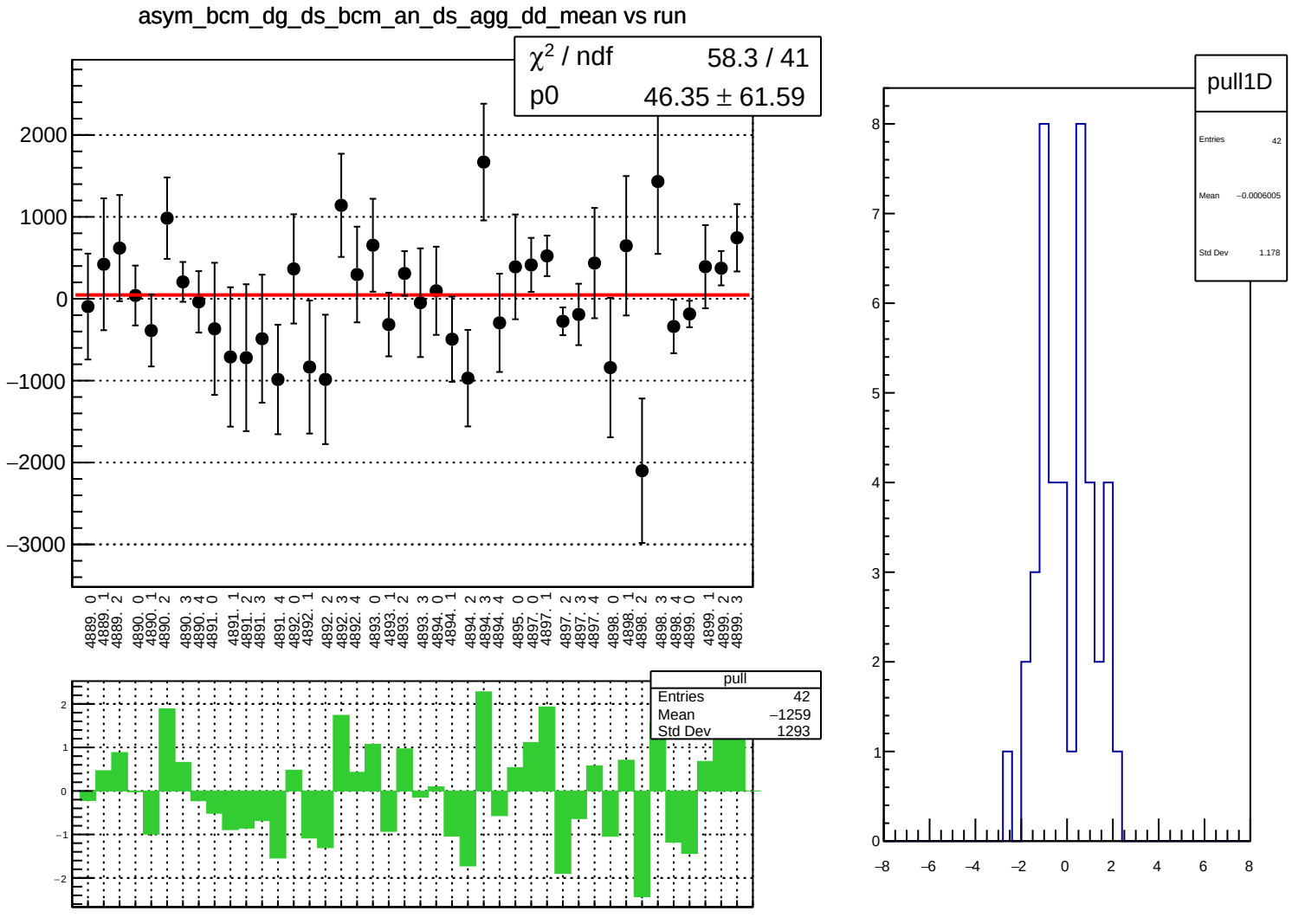

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4881 / 41
p0 189 ± 0.2072
210
200
190
180
170
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

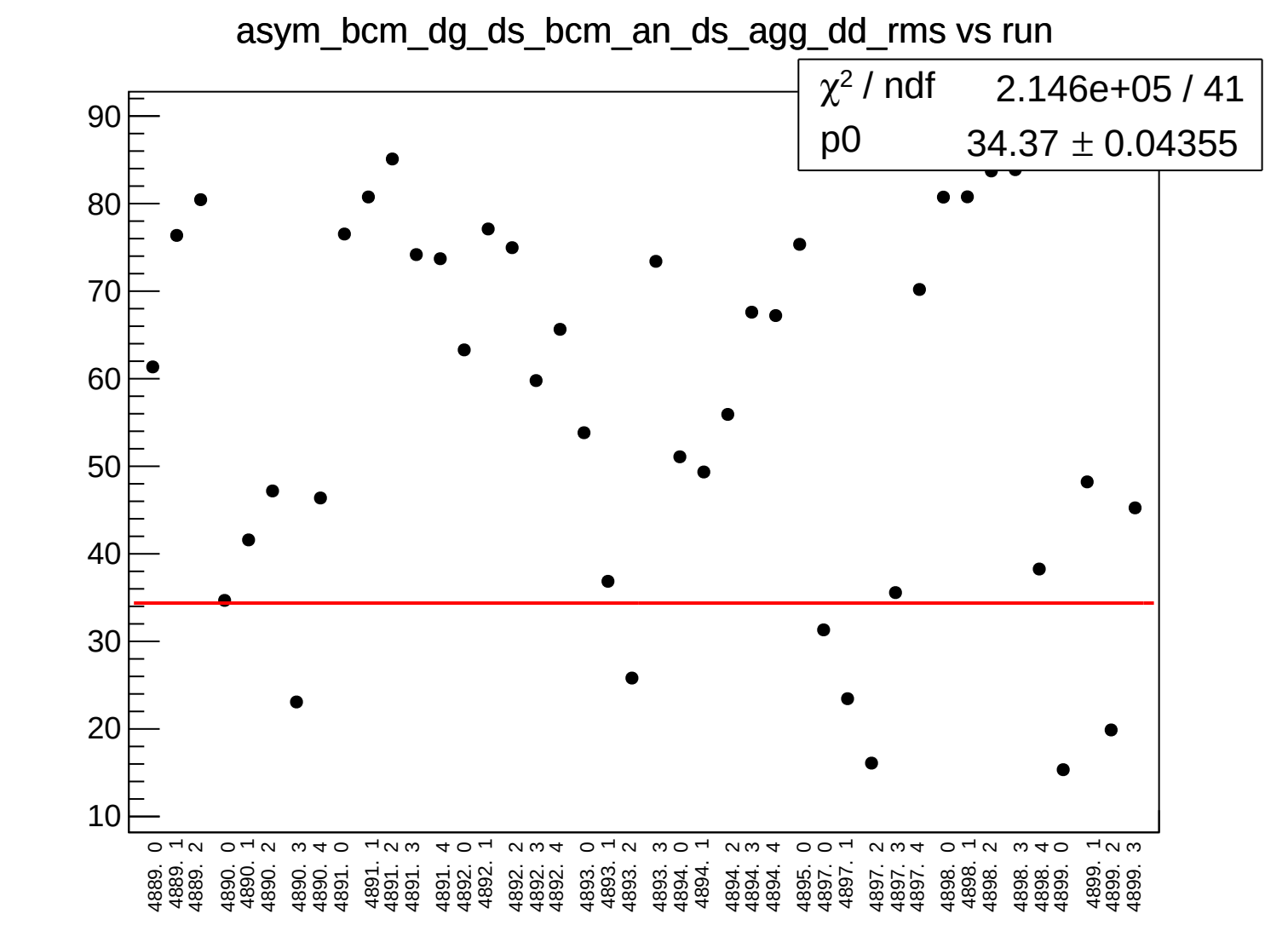

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.65 / 41
p0 128.5 ± 73.85
pull
Entries 42
Mean 12.96
Std Dev 16.4
pull1D
Entries 42
Mean −0.07709
Std Dev 1.095

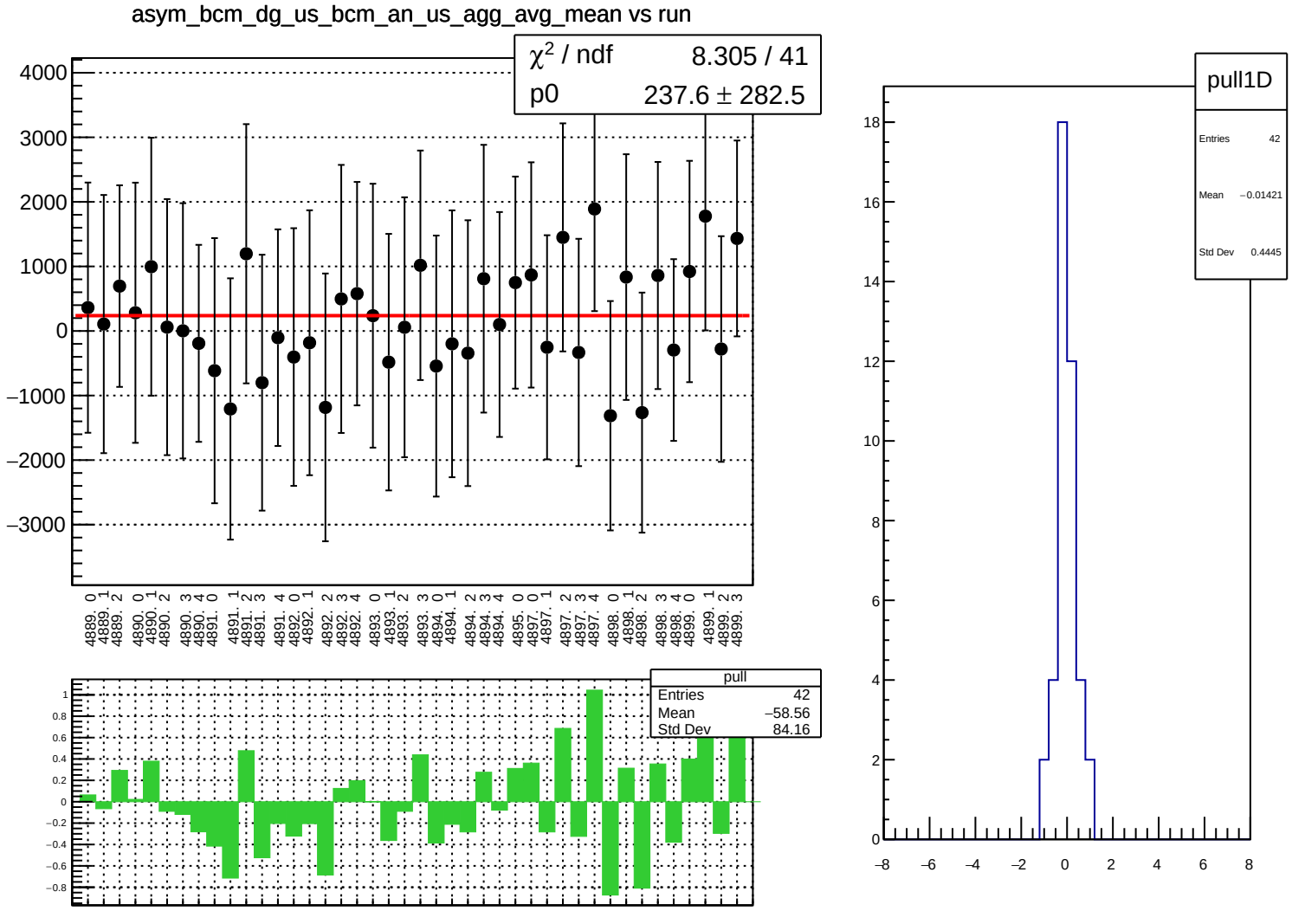

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.343e+05 / 41
p0 43.79 ± 0.05222
90
80
70
60
50
40
30
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

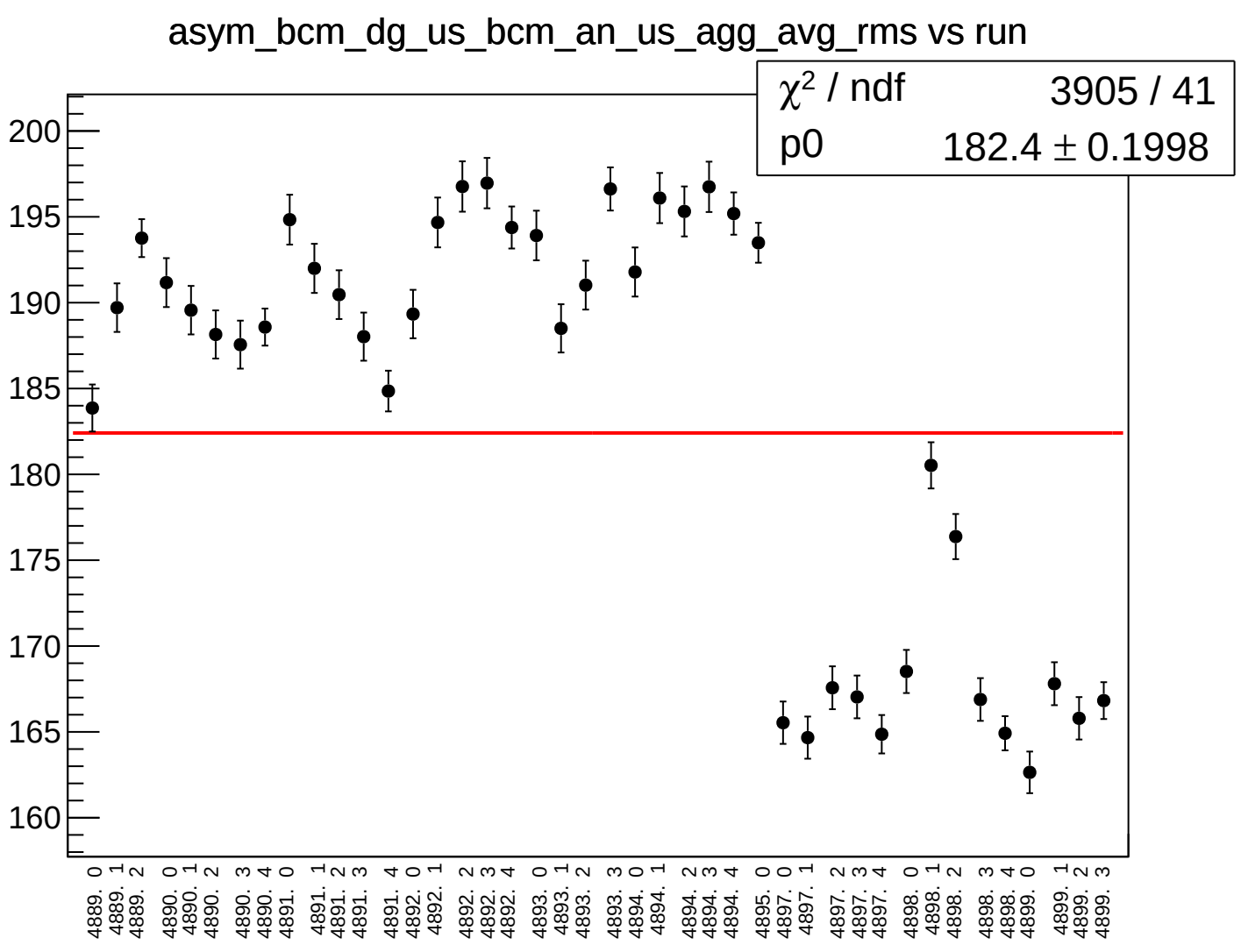

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.052 / 41
p0 175 ± 287.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −125.7
Std Dev 144.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean −0.00412
Std Dev 0.4097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

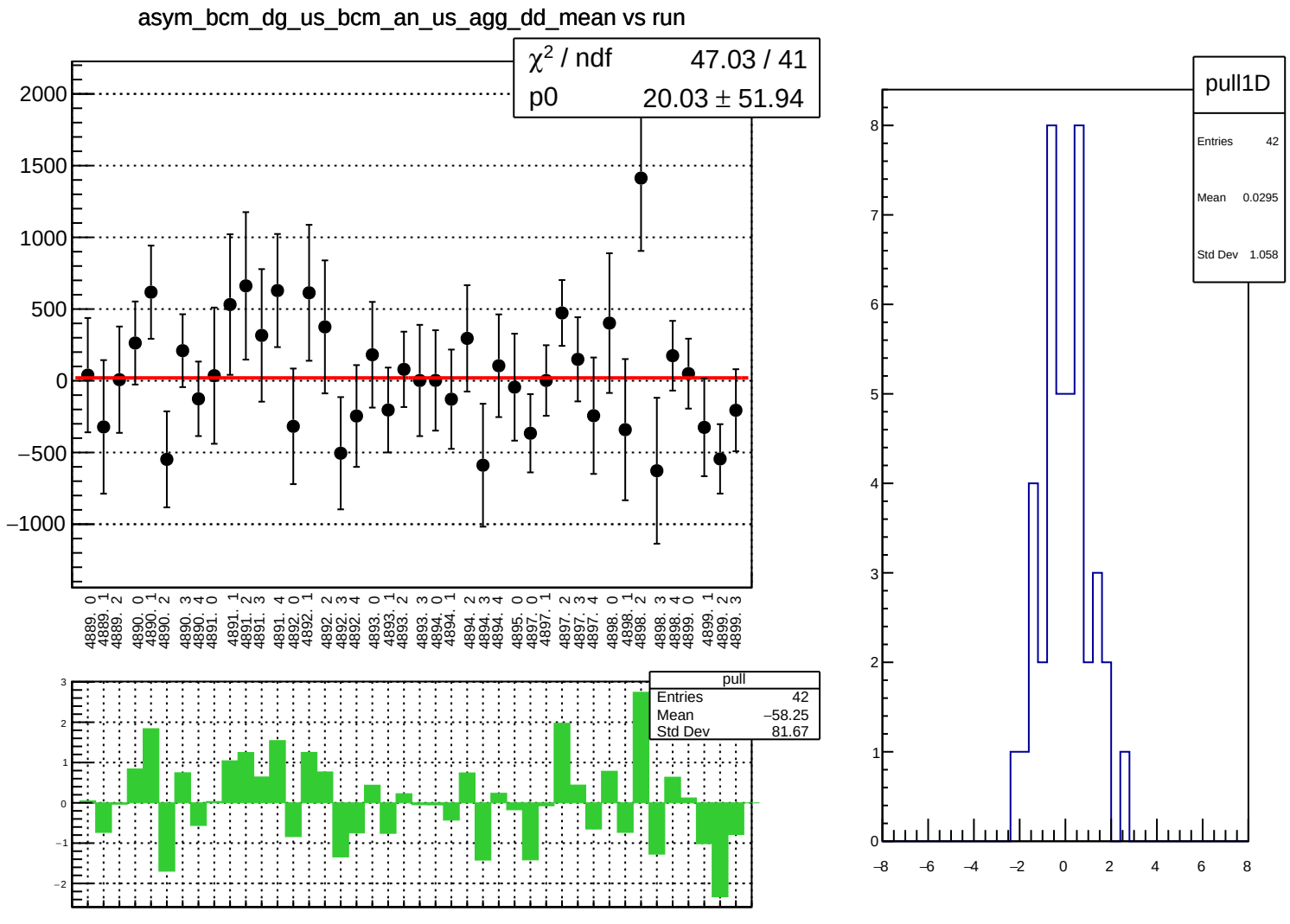

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5178 / 41
p0 185.5 ± 0.2033
210
200
190
180
170
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

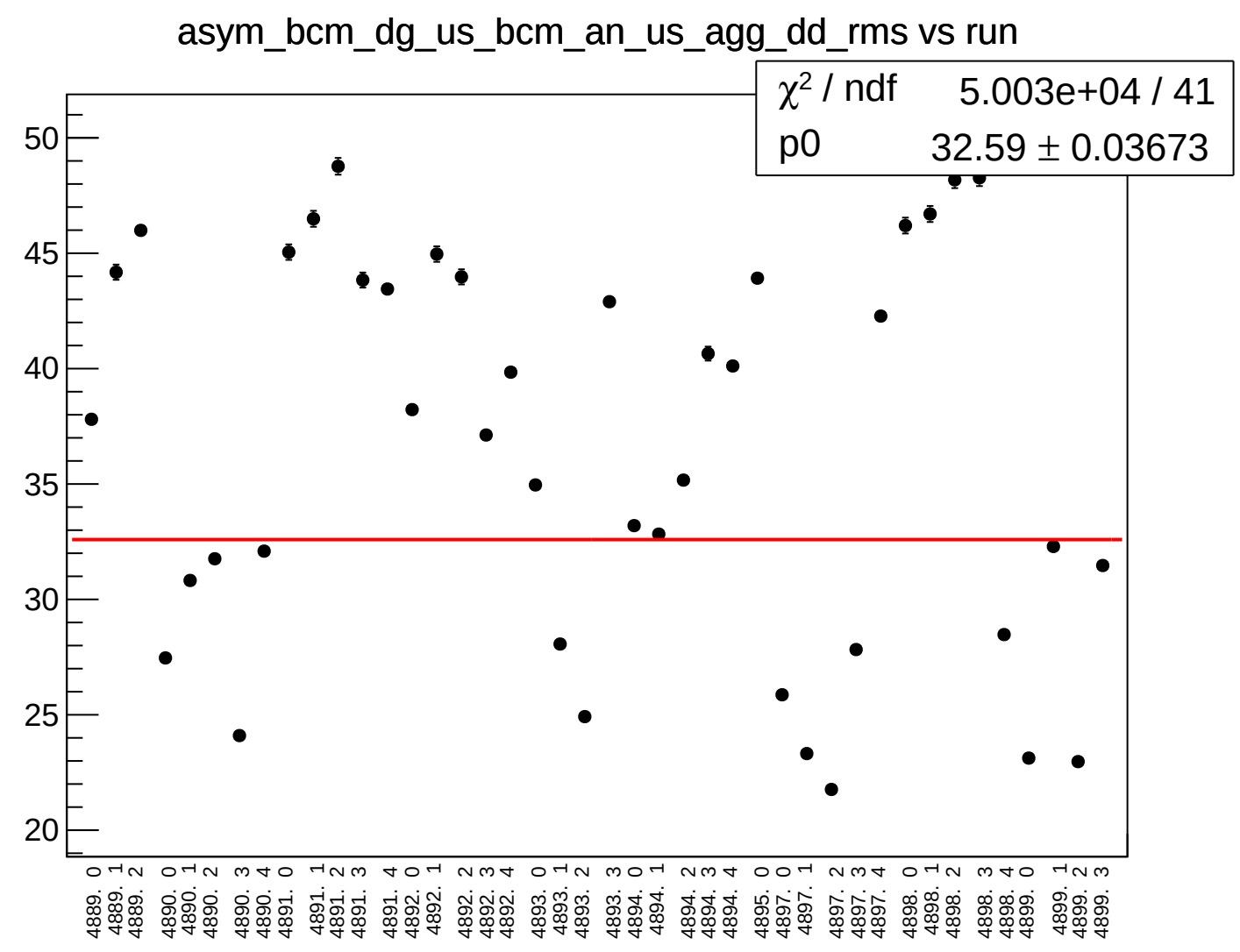

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.3 / 41
p0 46.35 ± 61.59
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −1259
Std Dev 1293
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.0006005
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

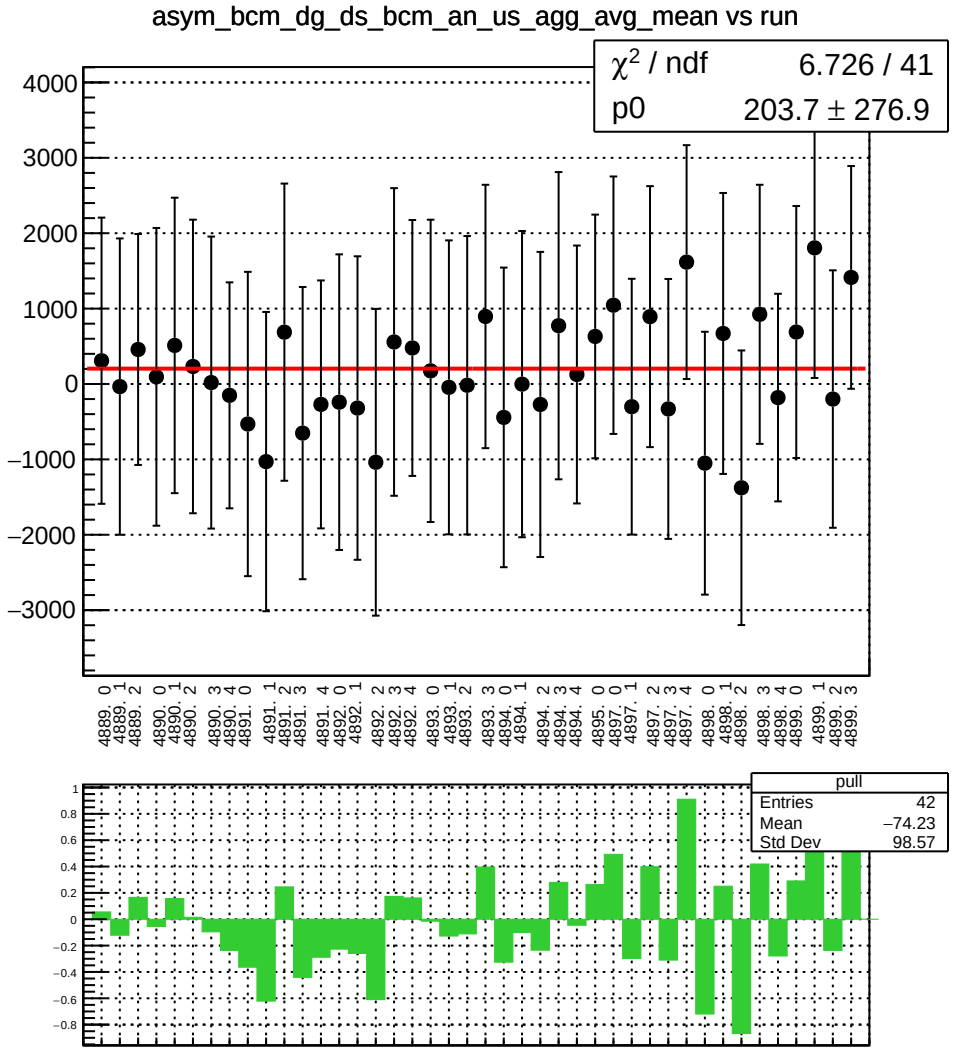

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.146e+05 / 41
p0 34.37 ± 0.04355
90
80
70
60
50
40
30
20
10
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

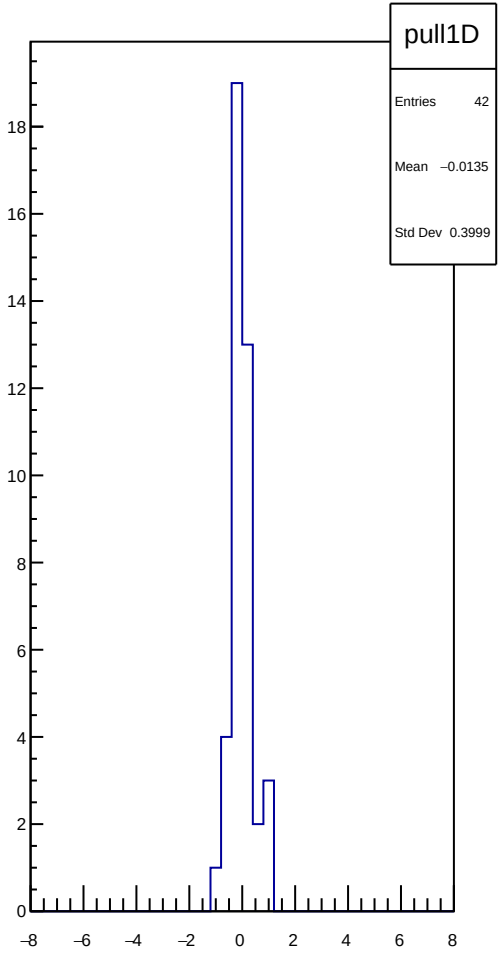

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.305 / 41
p0 237.6 ± 282.5
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −58.56
Std Dev 84.16
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean −0.01421
Std Dev 0.4445
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

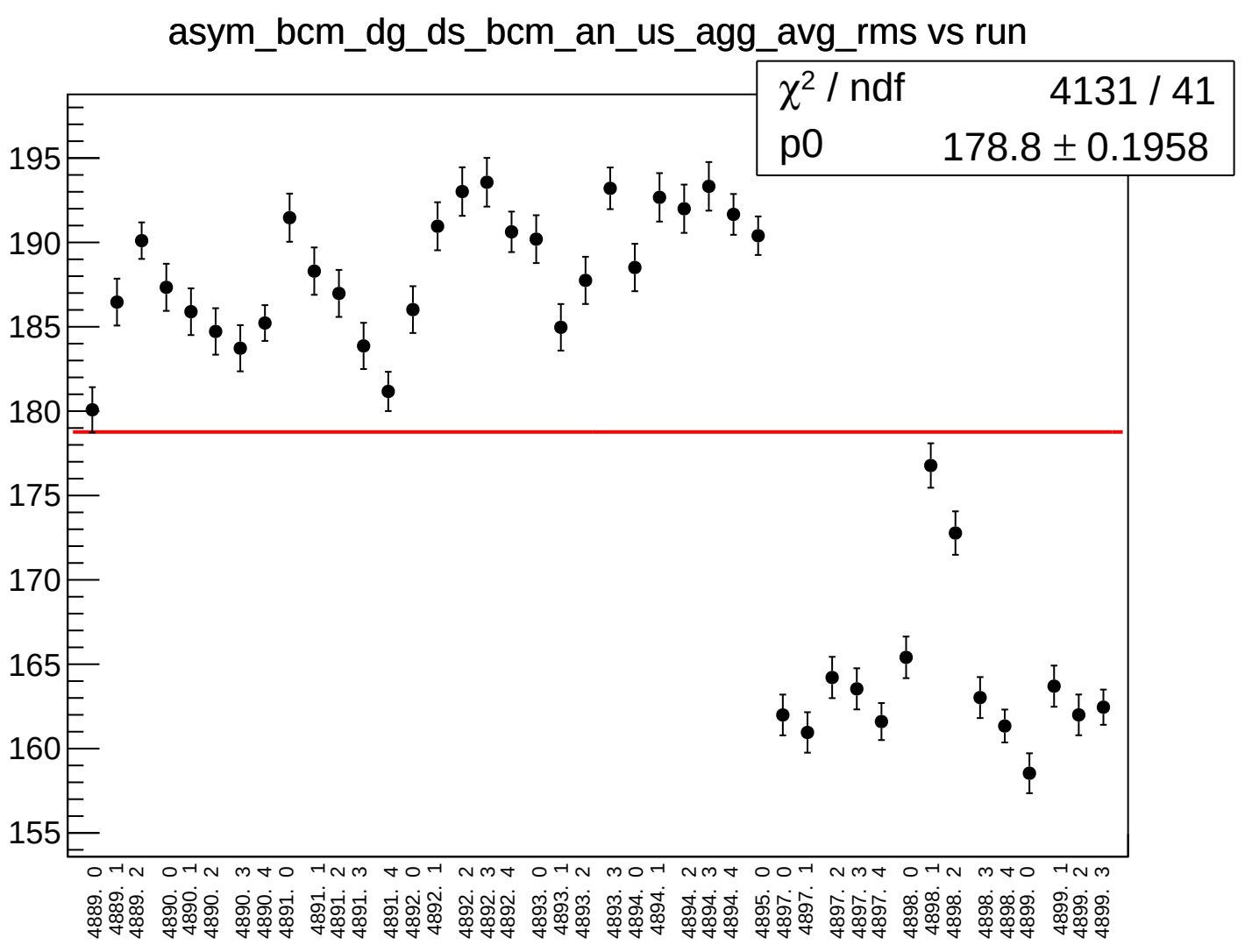

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3905 / 41
p0 182.4 ± 0.1998
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

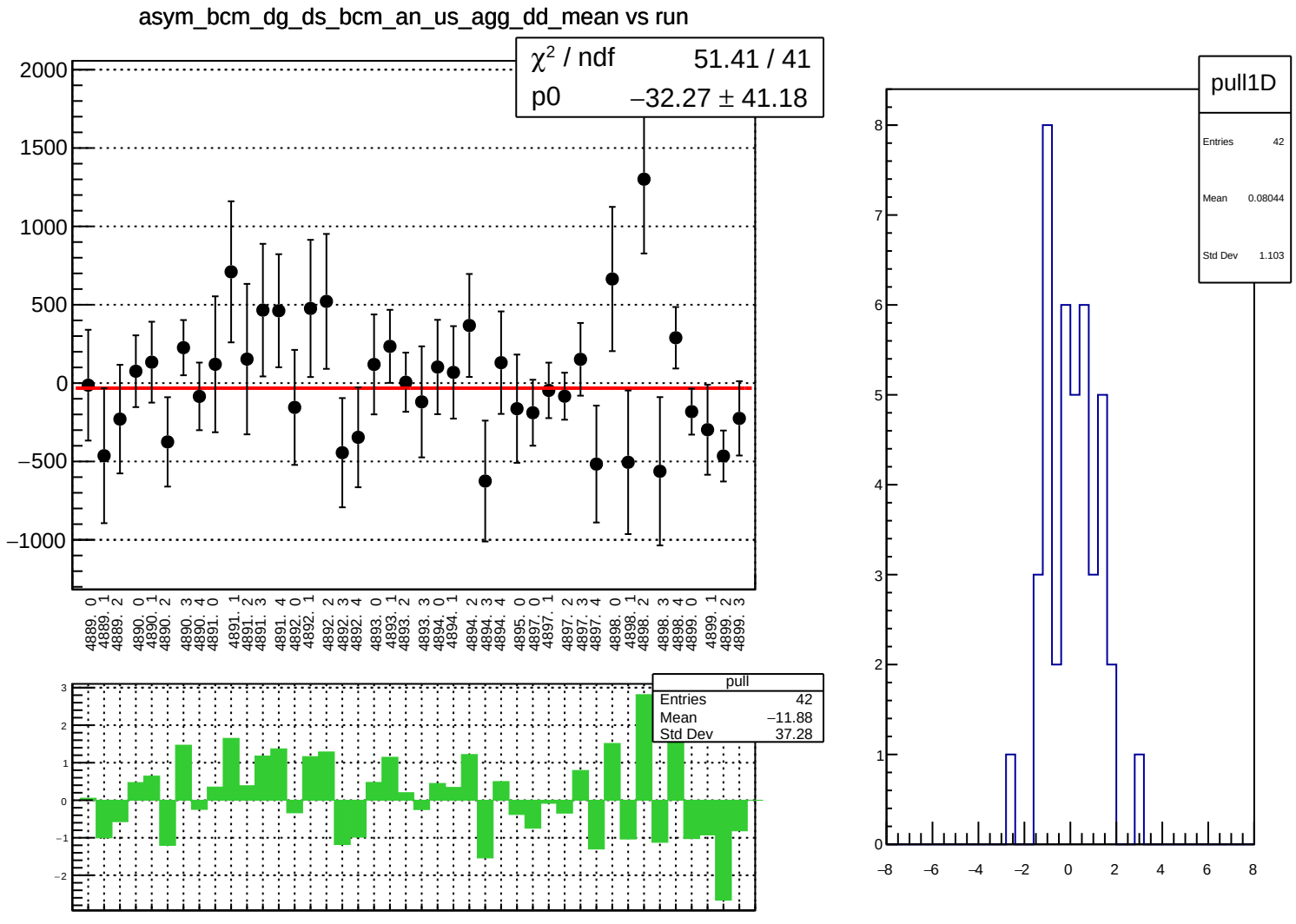

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 47.03 / 41
p0 20.03 ± 51.94
2000
1500
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −58.25
Std Dev 81.67
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.0295
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

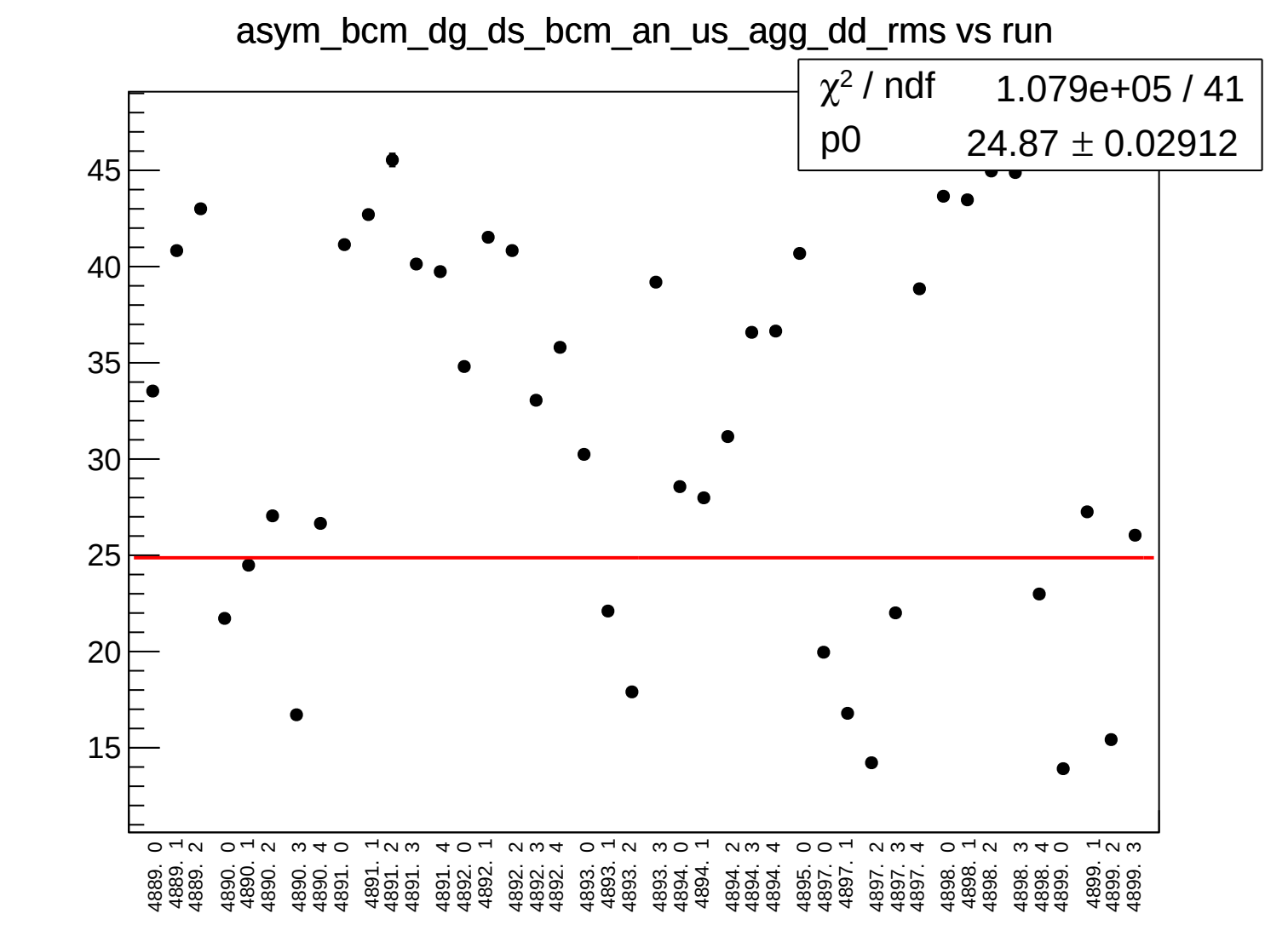

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5.003e+04 / 41
p0 32.59 ± 0.03673
50
45
40
35
30
25
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

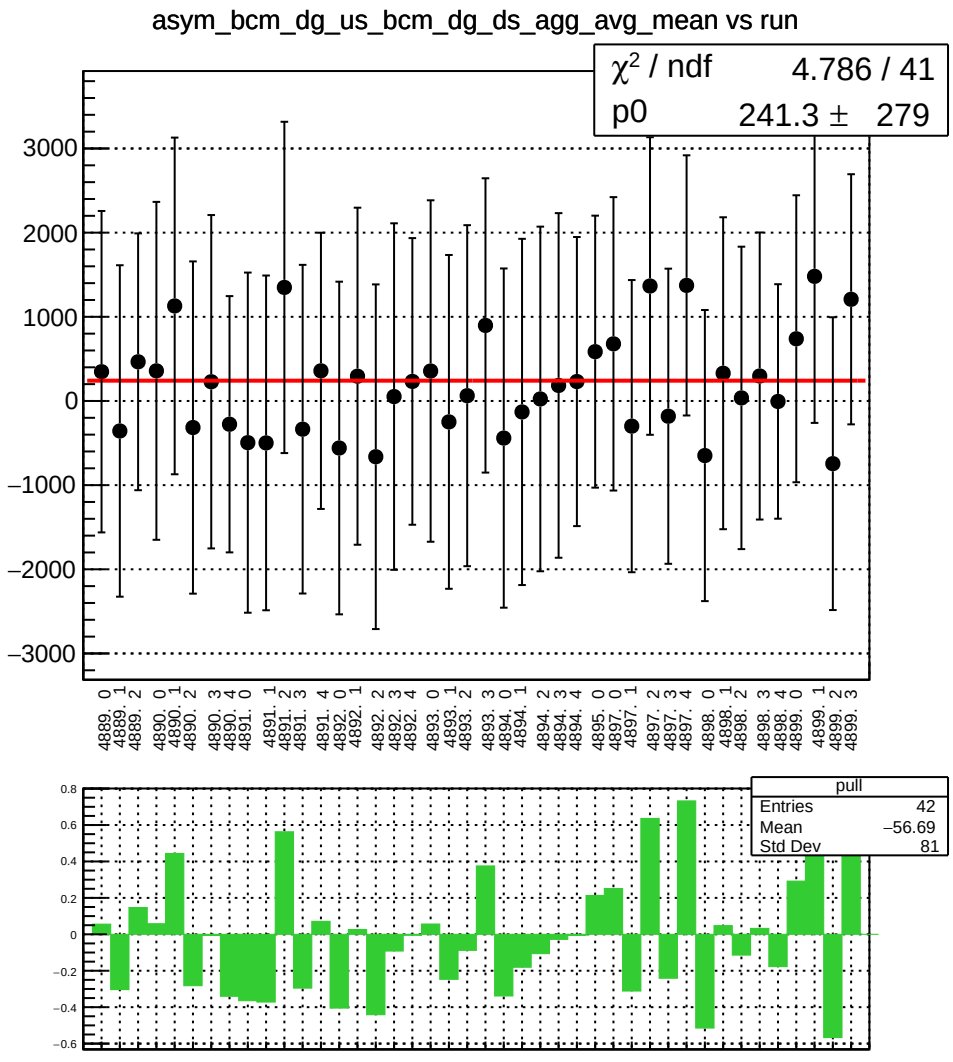

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.726 / 41
p0 203.7 ± 276.9
pull
Entries 42
Mean −74.23
Std Dev 98.57

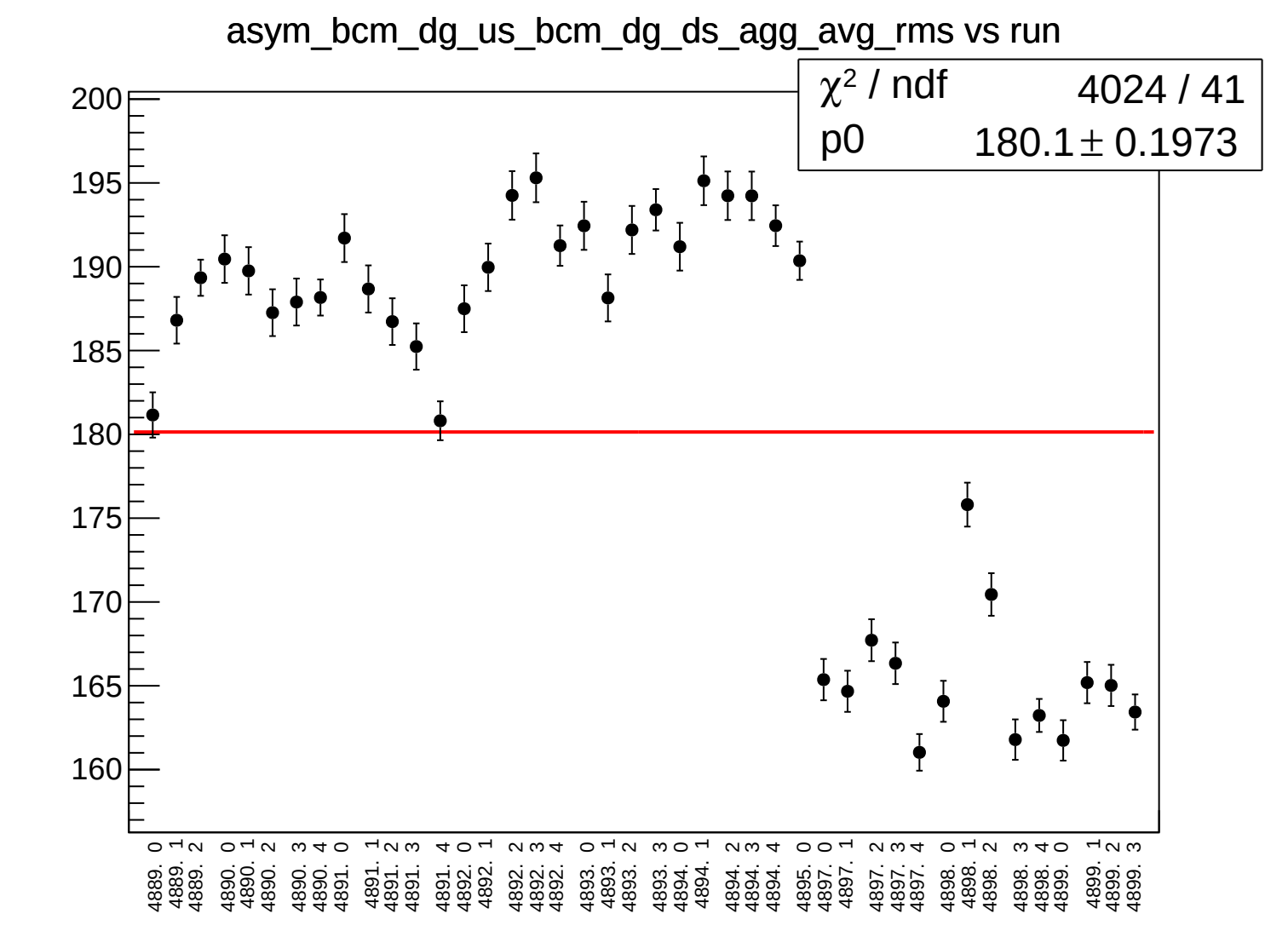

pull1D
Entries 42
Mean −0.0135
Std Dev 0.3999

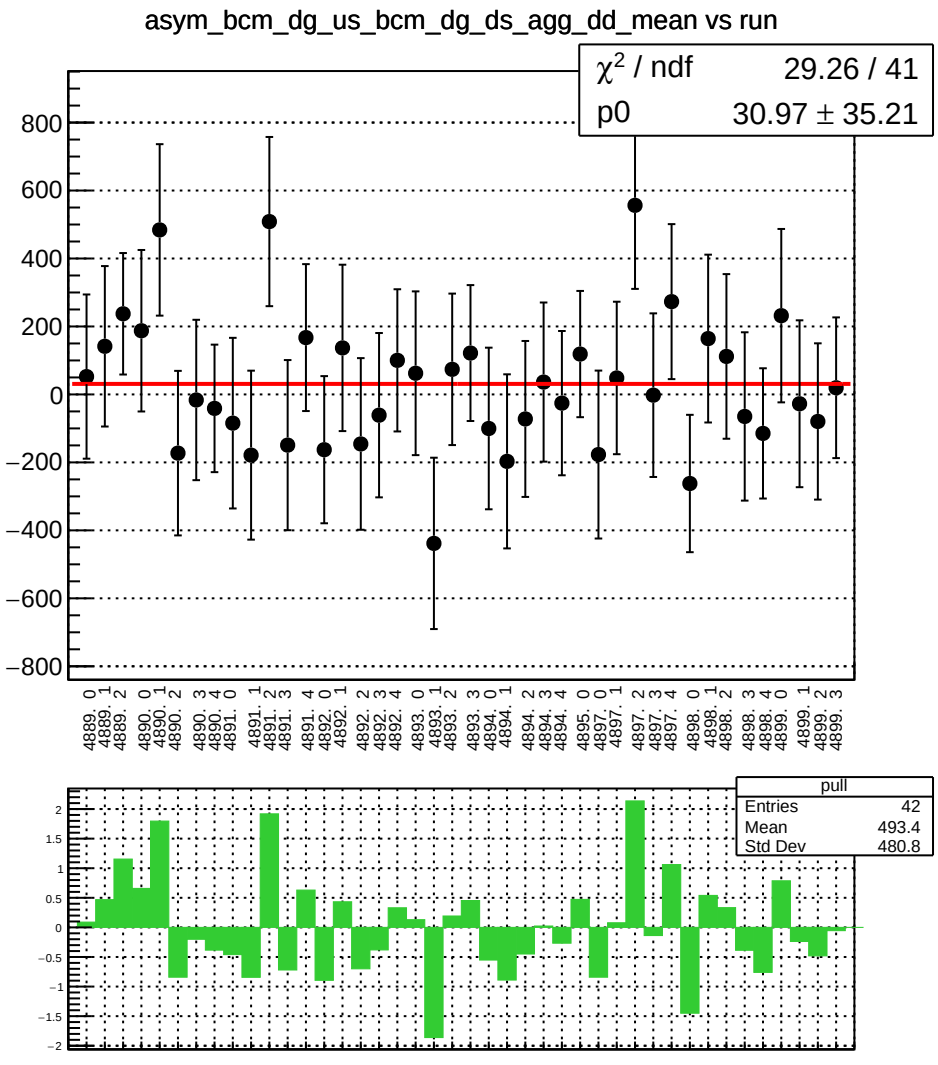

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4131 / 41
p0 178.8 ± 0.1958
195
190
185
180
175
170
165
160
155
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

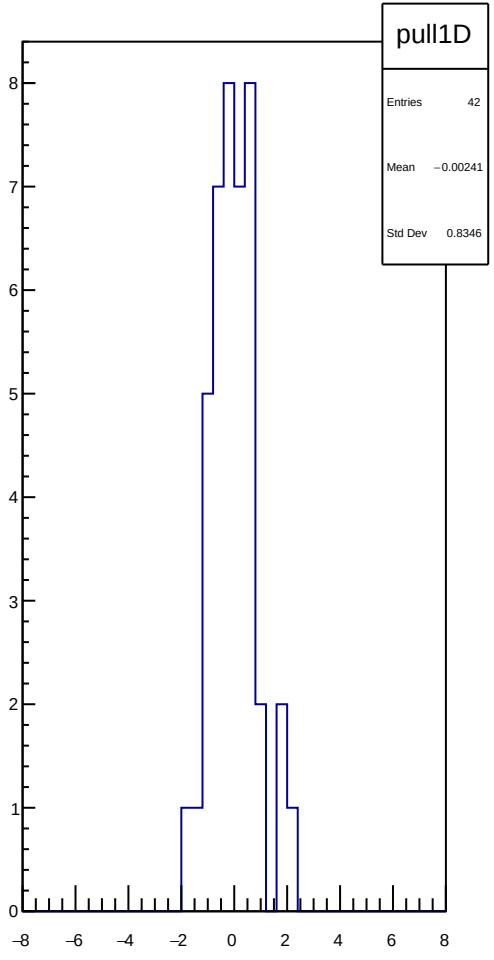

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 51.41 / 41
p0 −32.27 ± 41.18
2000
1500
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −11.88
Std Dev 37.28
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.08044
Std Dev 1.103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

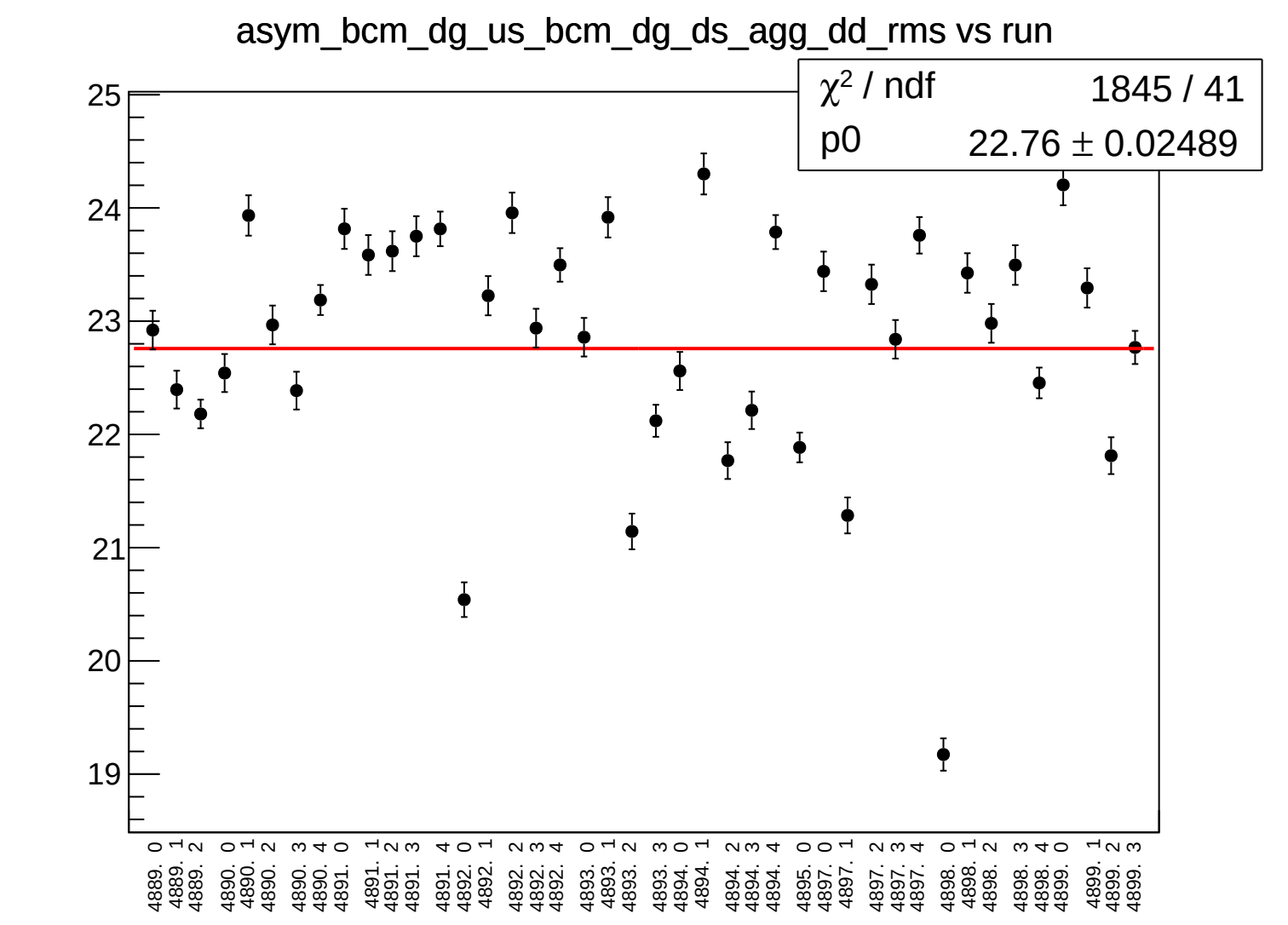

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.079e+05 / 41
p0 24.87 ± 0.02912
45
40
35
30
25
20
15
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

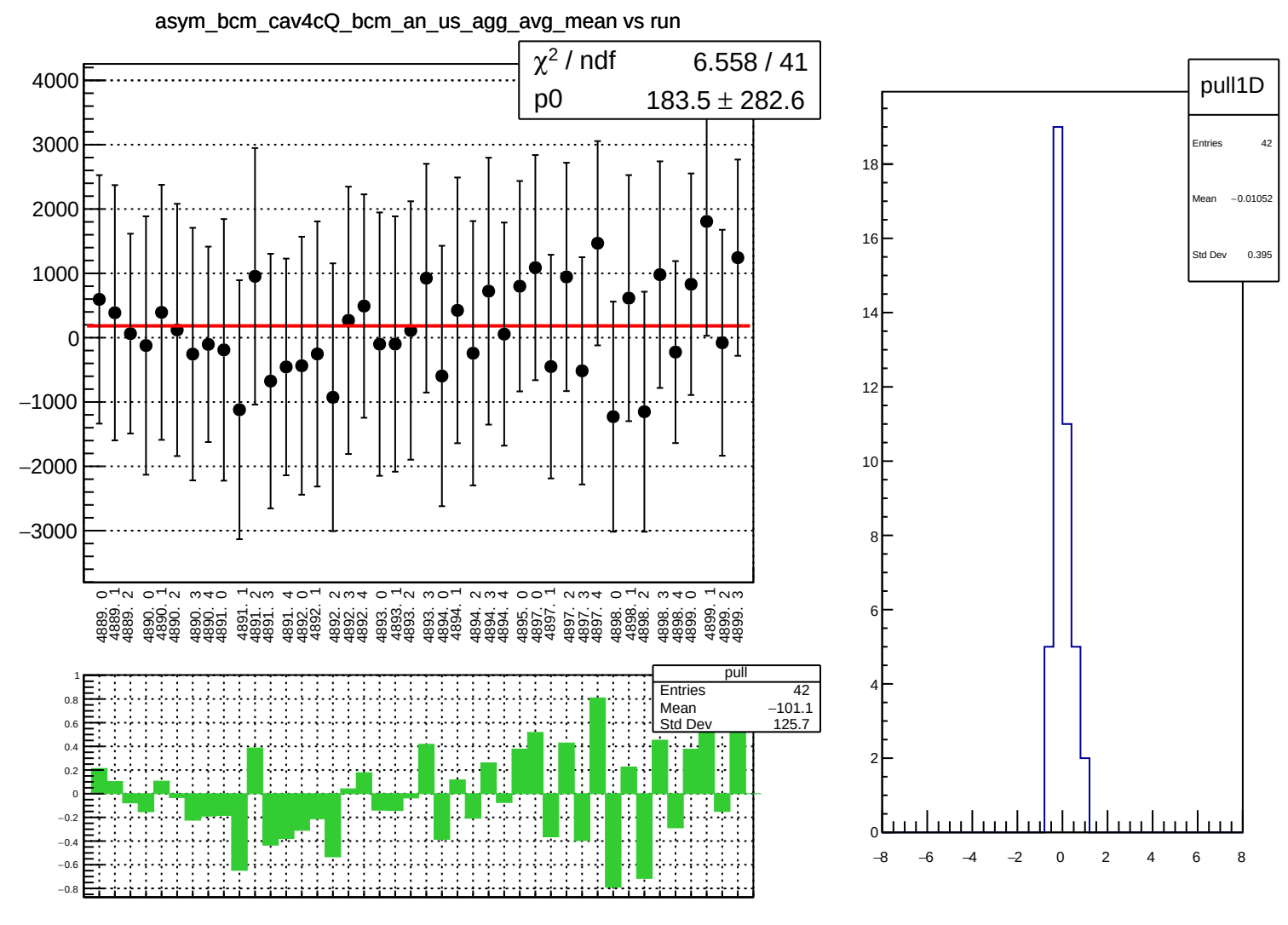

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.786 / 41
p0 241.3 ± 279
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −56.69
Std Dev 81
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.01098
Std Dev 0.3374
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

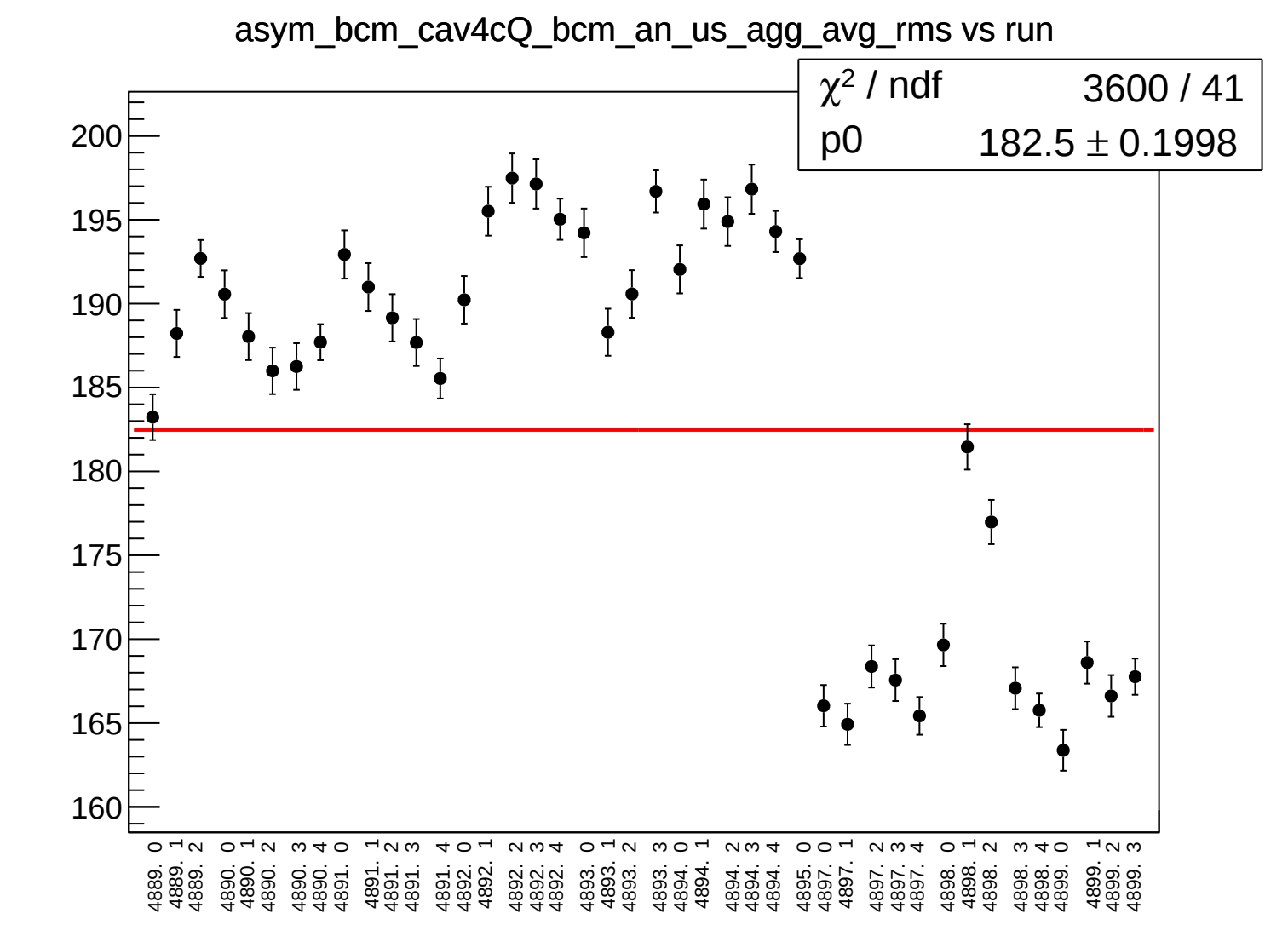

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4024 / 41
p0 180.1 ± 0.1973
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

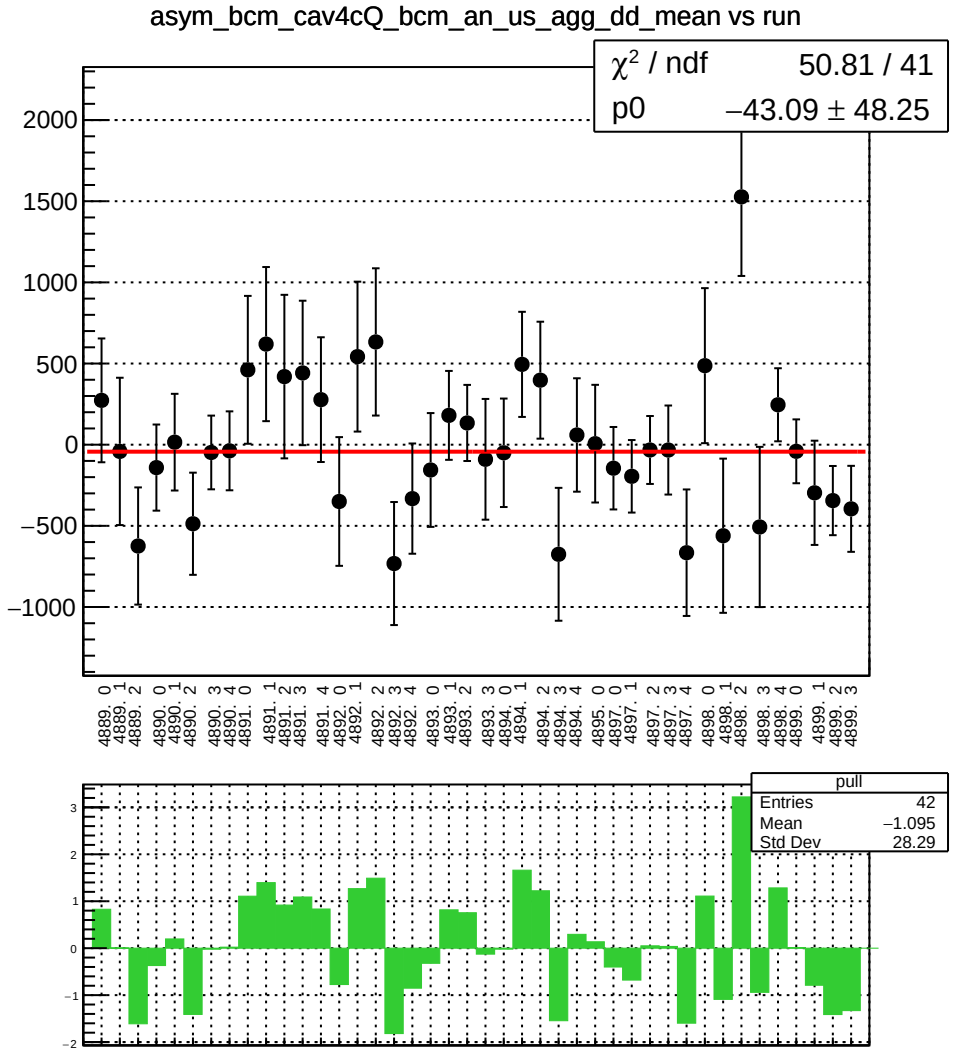

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 29.26 / 41
p0 30.97 ± 35.21
pull
Entries 42
Mean 493.4
Std Dev 480.8

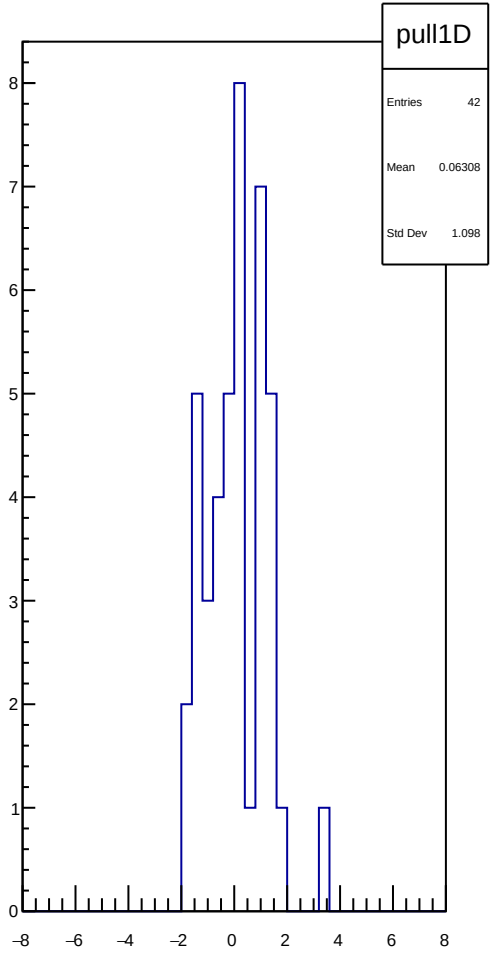

pull1D
Entries 42
Mean −0.00241
Std Dev 0.8346

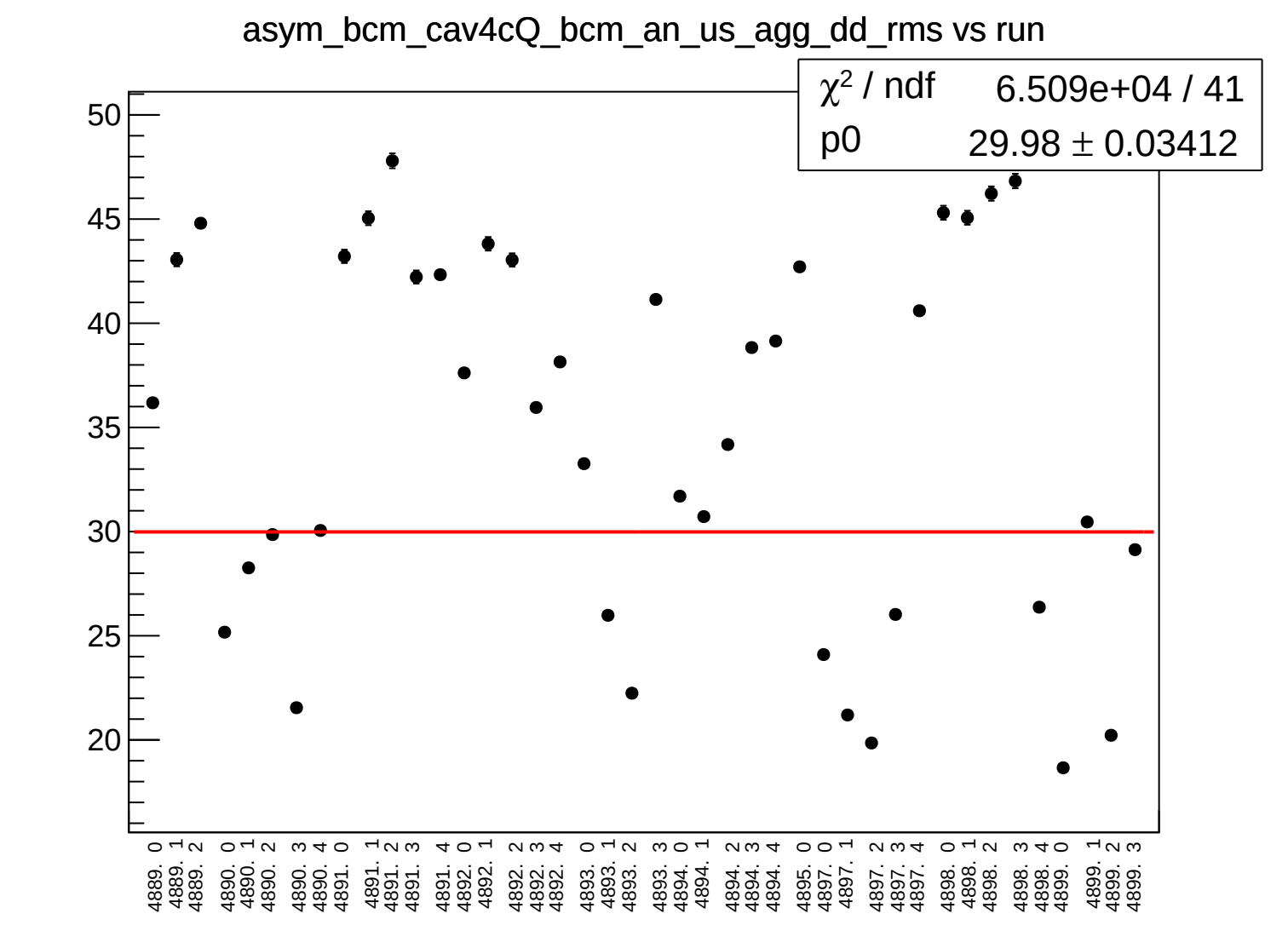

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1845 / 41
p0 22.76 ± 0.02489
25
24
23
22
21
20
19
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

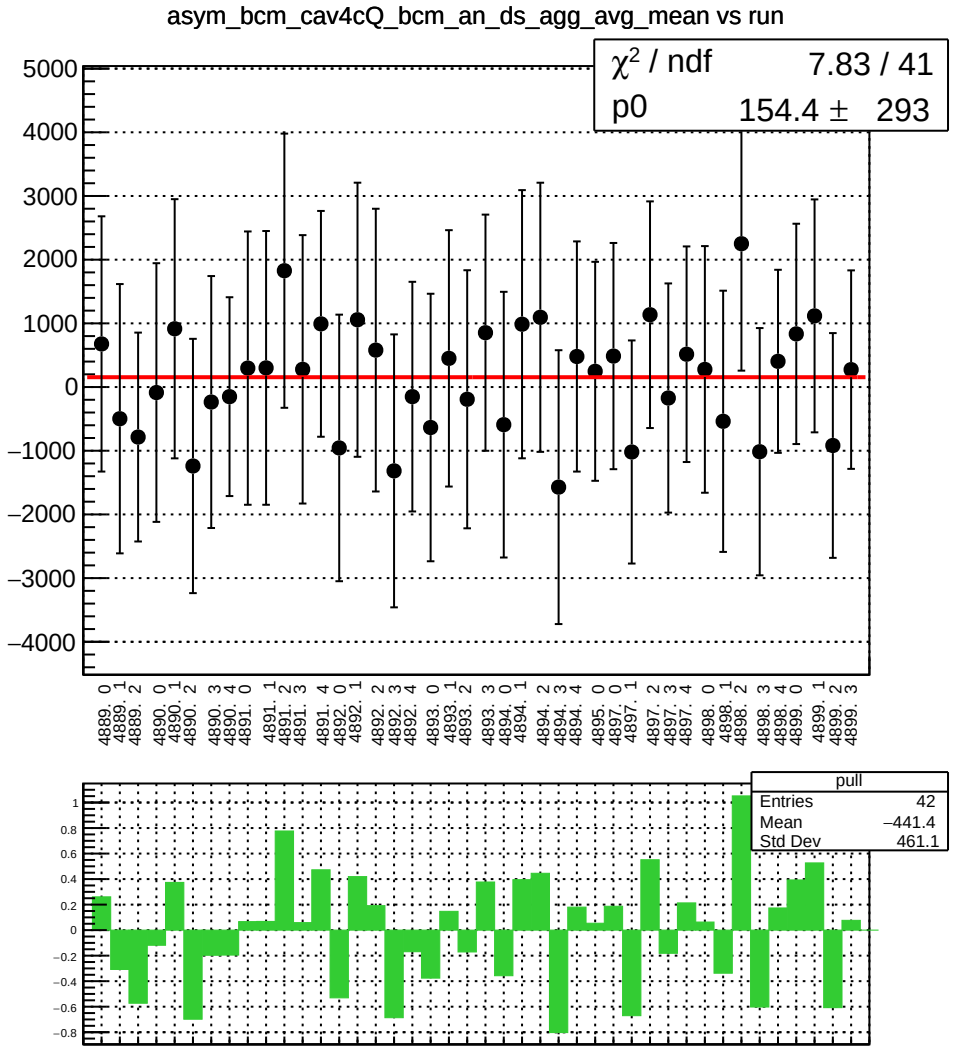

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.558 / 41
p0 183.5 ± 282.6
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −101.1
Std Dev 125.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean −0.01052
Std Dev 0.395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

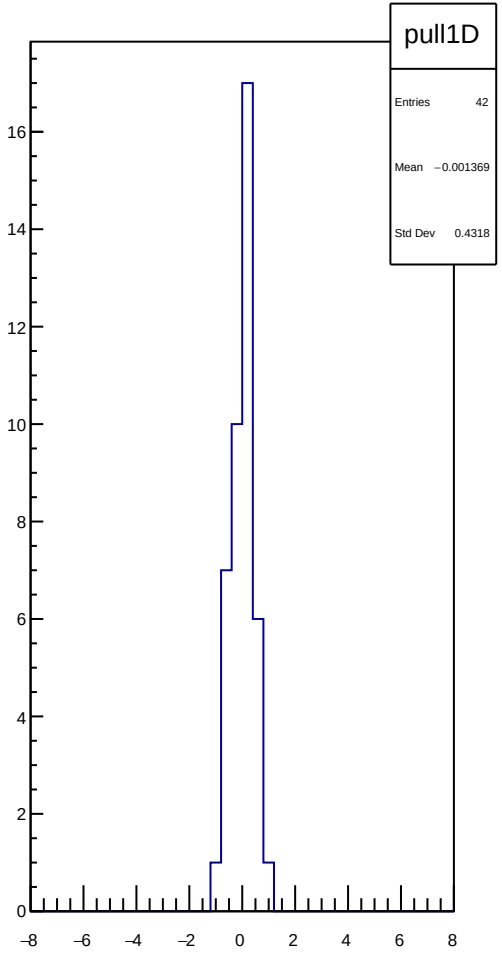

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3600 / 41
p0 182.5 ± 0.1998
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

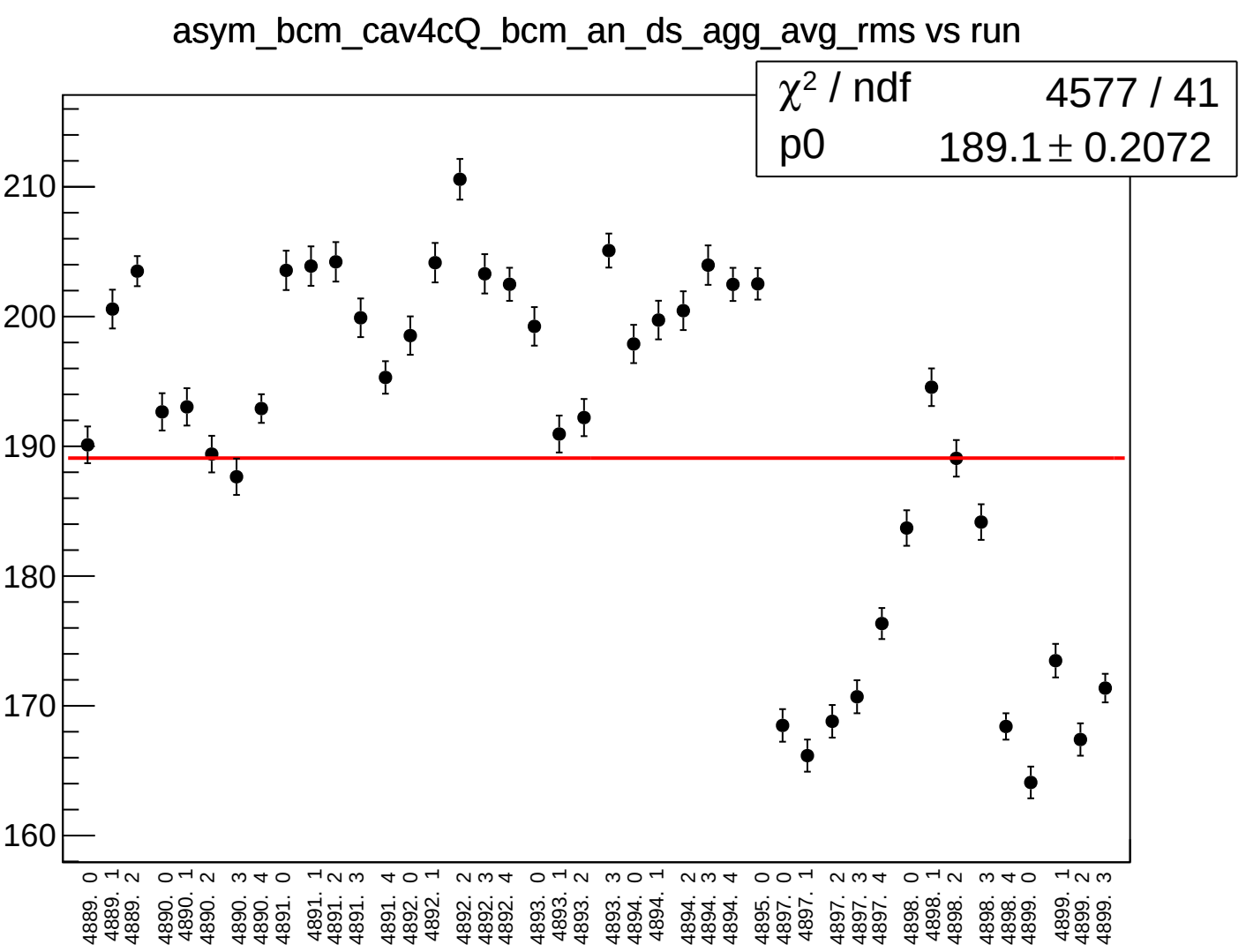

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 50.81 / 41
p0 −43.09 ± 48.25
pull
Entries 42
Mean −1.095
Std Dev 28.29

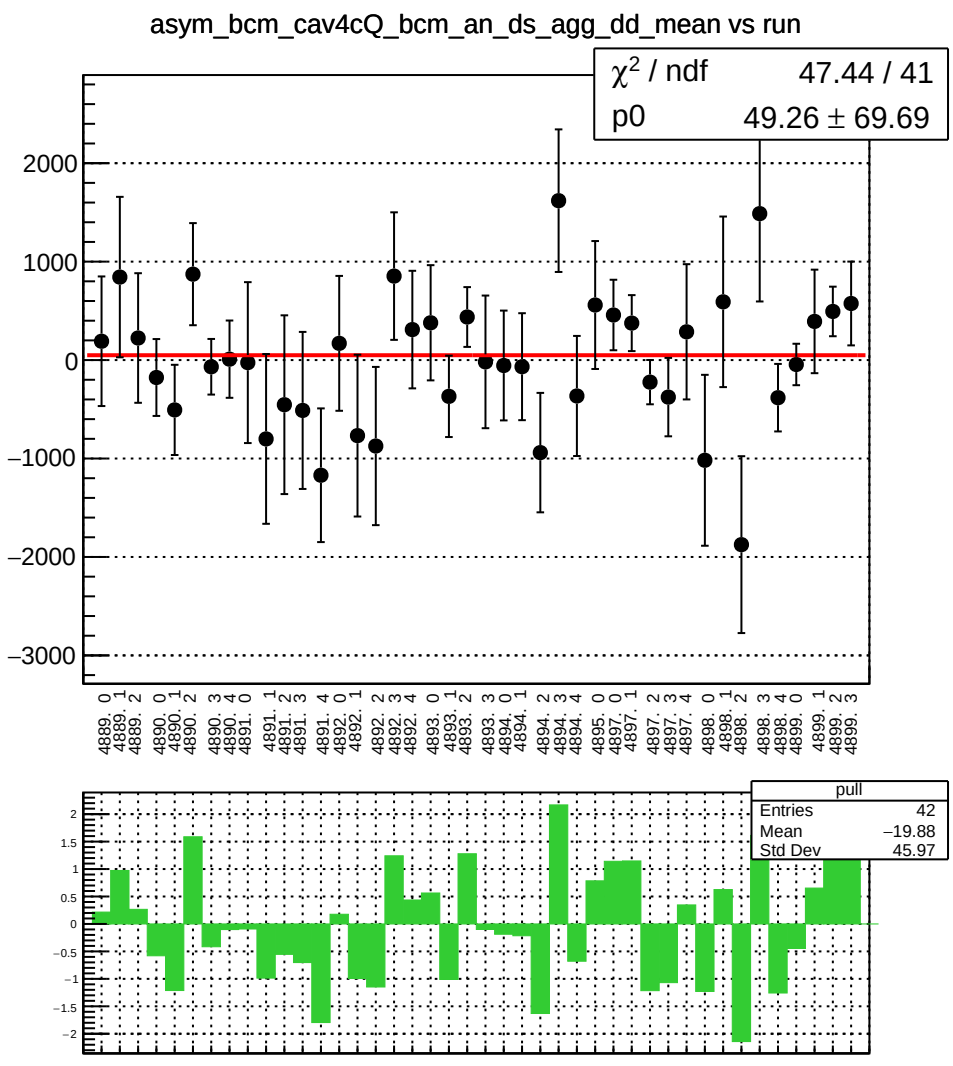

pull1D
Entries 42
Mean 0.06308
Std Dev 1.098

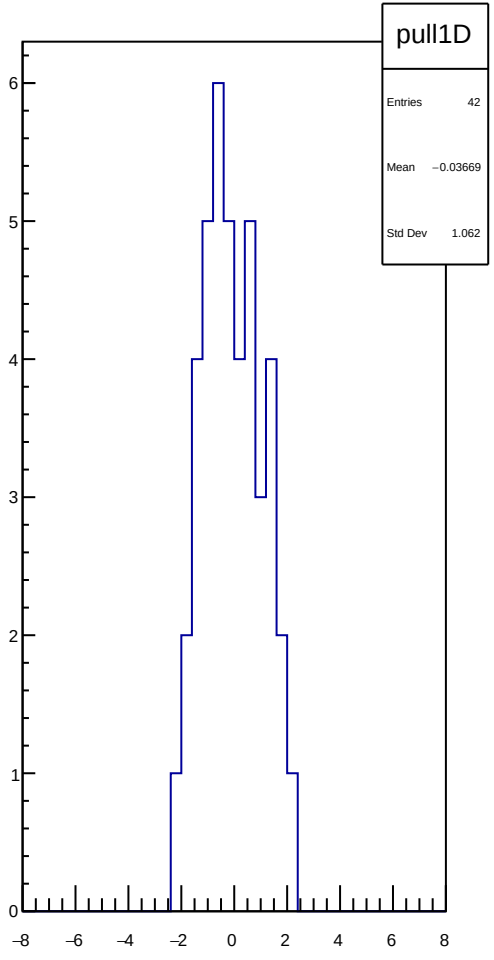

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6.509e+04 / 41
p0 29.98 ± 0.03412
50
45
40
35
30
25
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

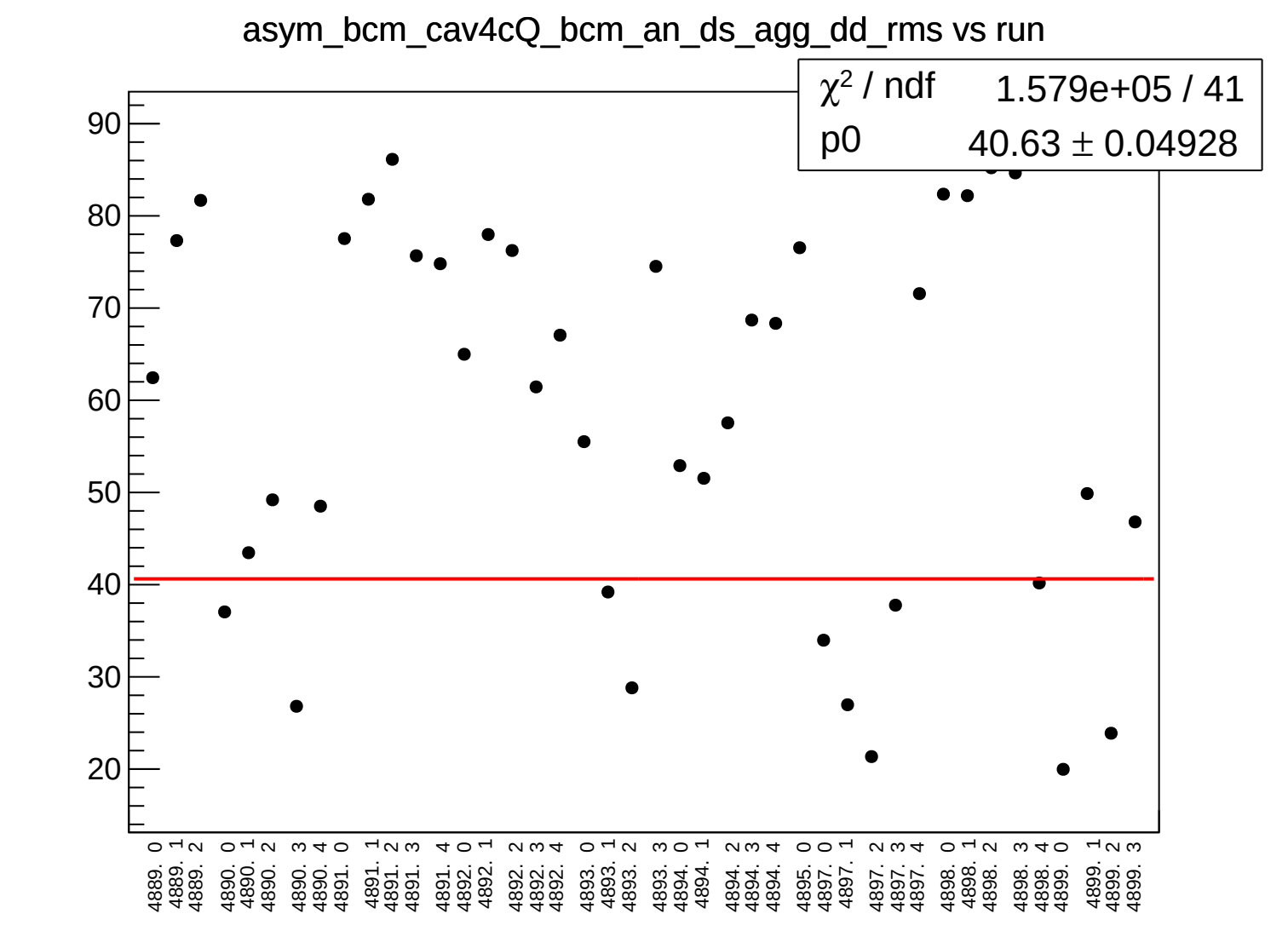

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.83 / 41
p0 154.4 ± 293
pull
Entries 42
Mean −441.4
Std Dev 461.1

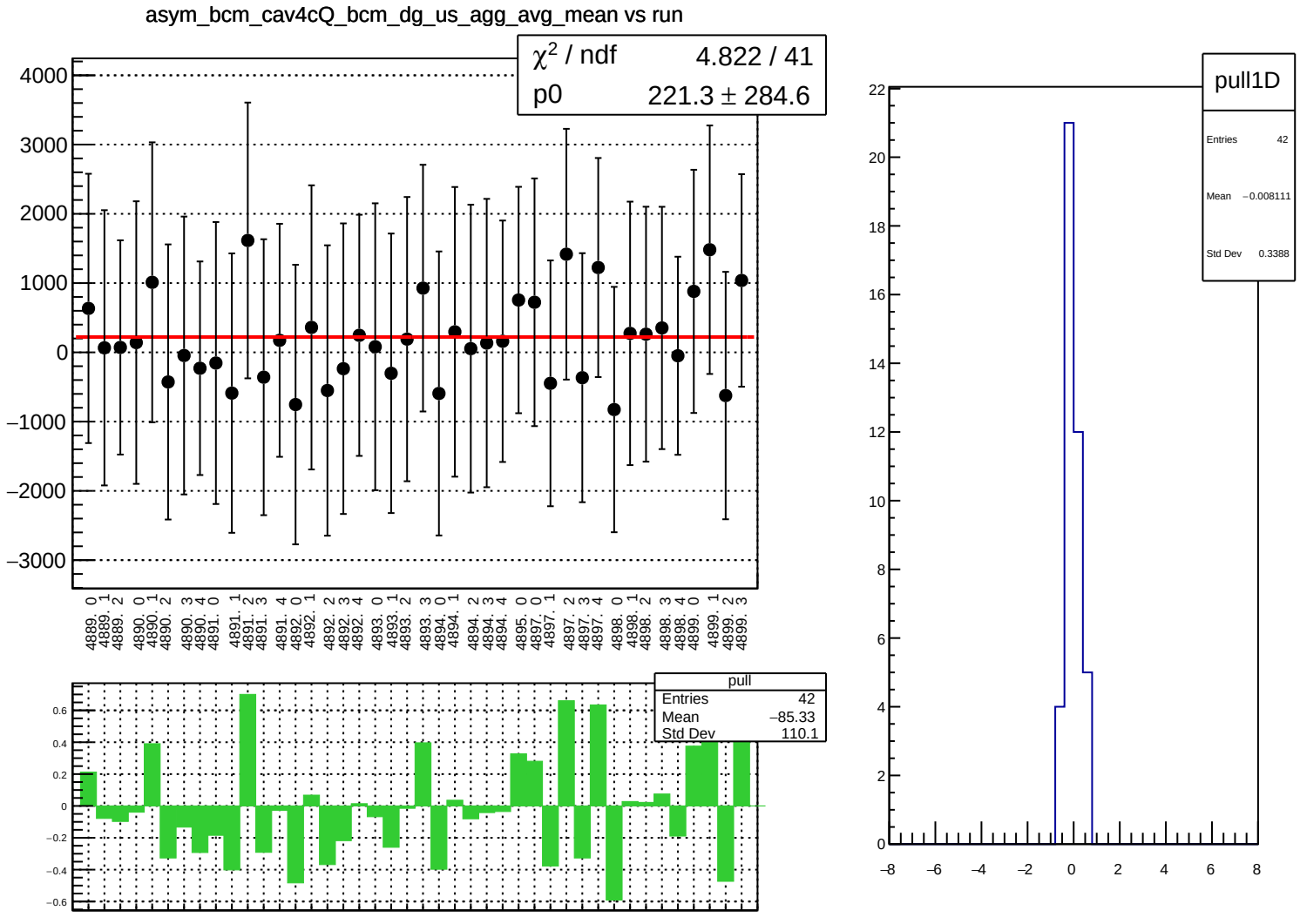

pull1D
Entries 42
Mean −0.001369
Std Dev 0.4318

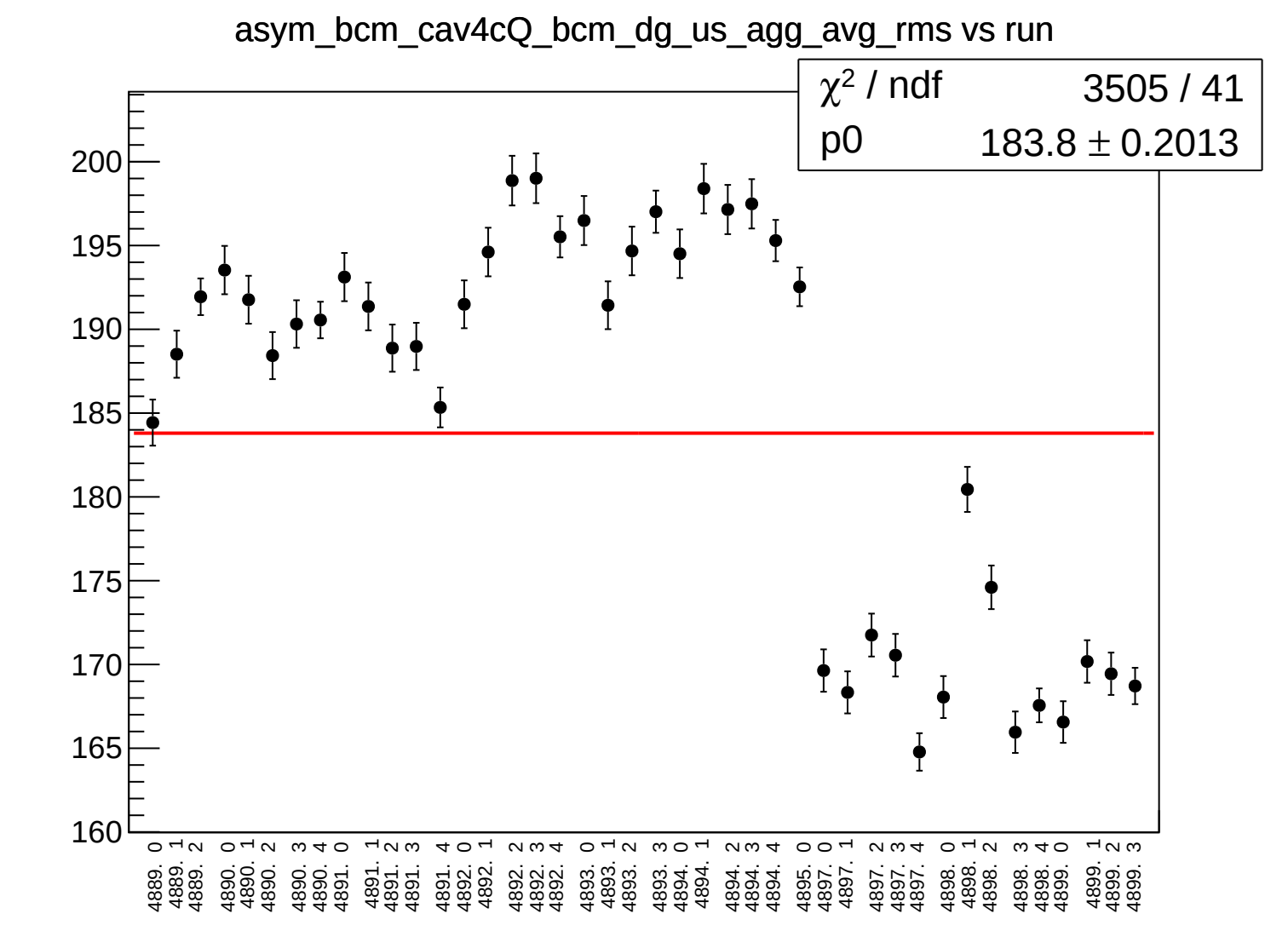

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4577 / 41
p0 189.1 ± 0.2072
210
200
190
180
170
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

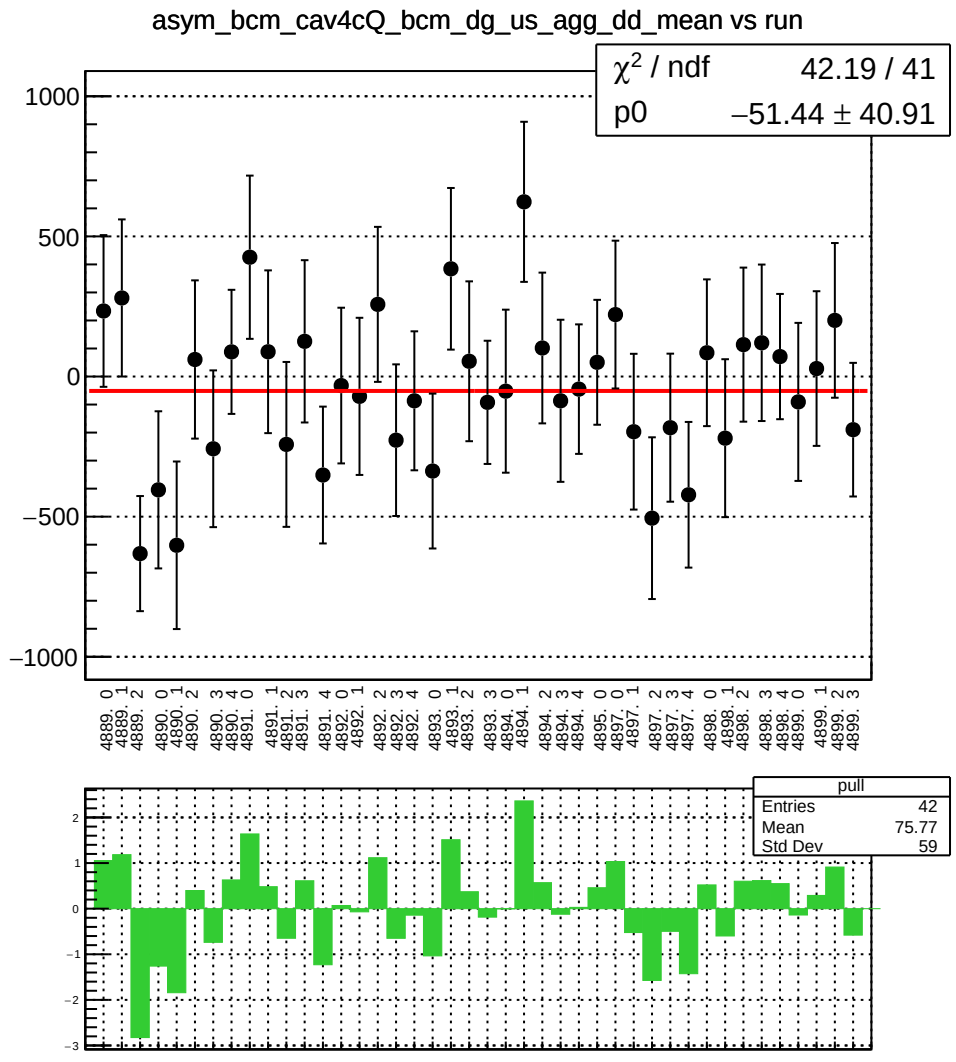

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 47.44 / 41
p0 49.26 ± 69.69
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −19.88
Std Dev 45.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

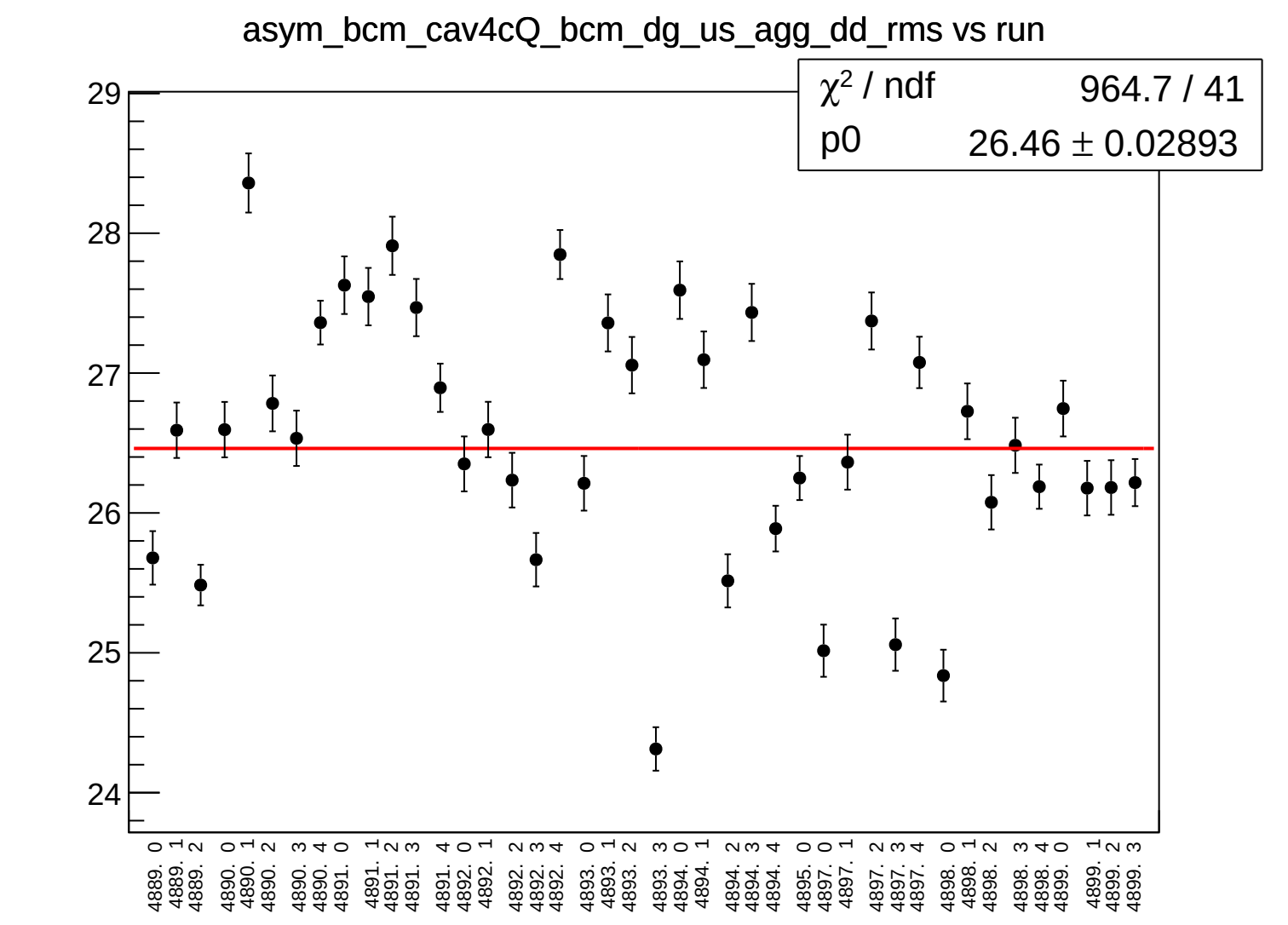

pull1D
Entries 42
Mean −0.03669
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

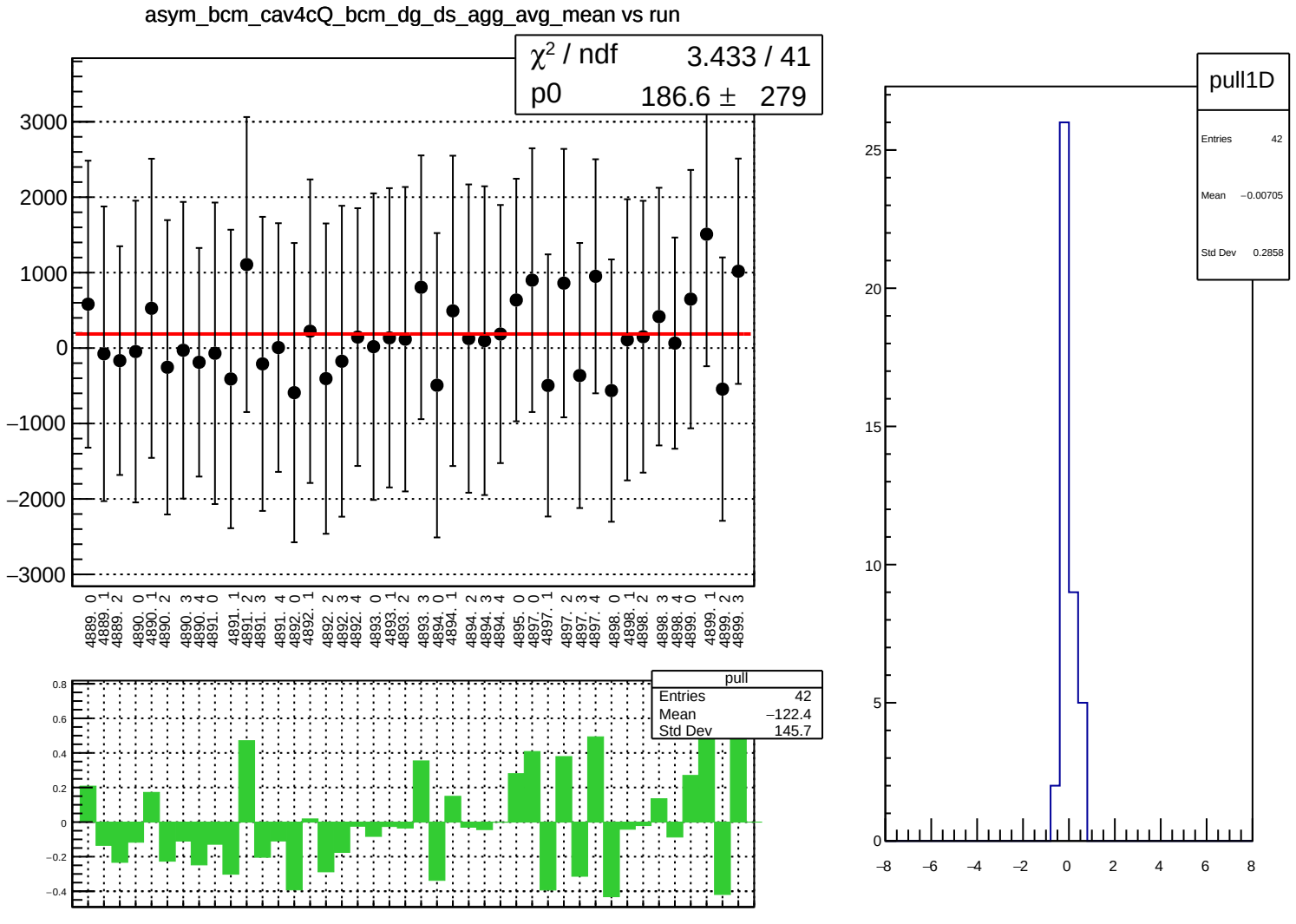

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.579e+05 / 41
p0 40.63 ± 0.04928
90
80
70
60
50
40
30
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

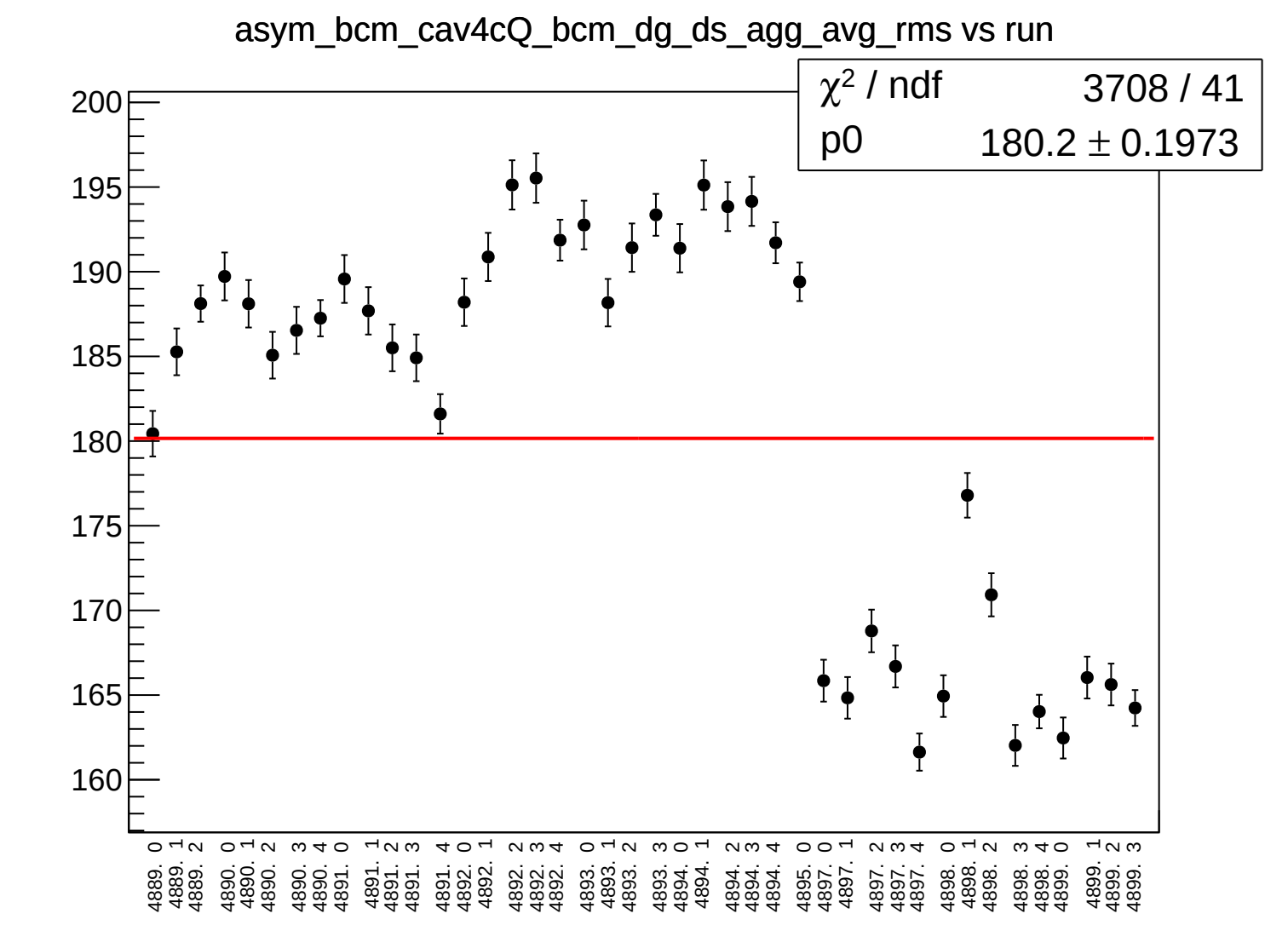

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 4.822 / 41
p0 221.3 ± 284.6
pull
Entries 42
Mean −85.33
Std Dev 110.1
pull1D
Entries 42
Mean −0.008111
Std Dev 0.3388

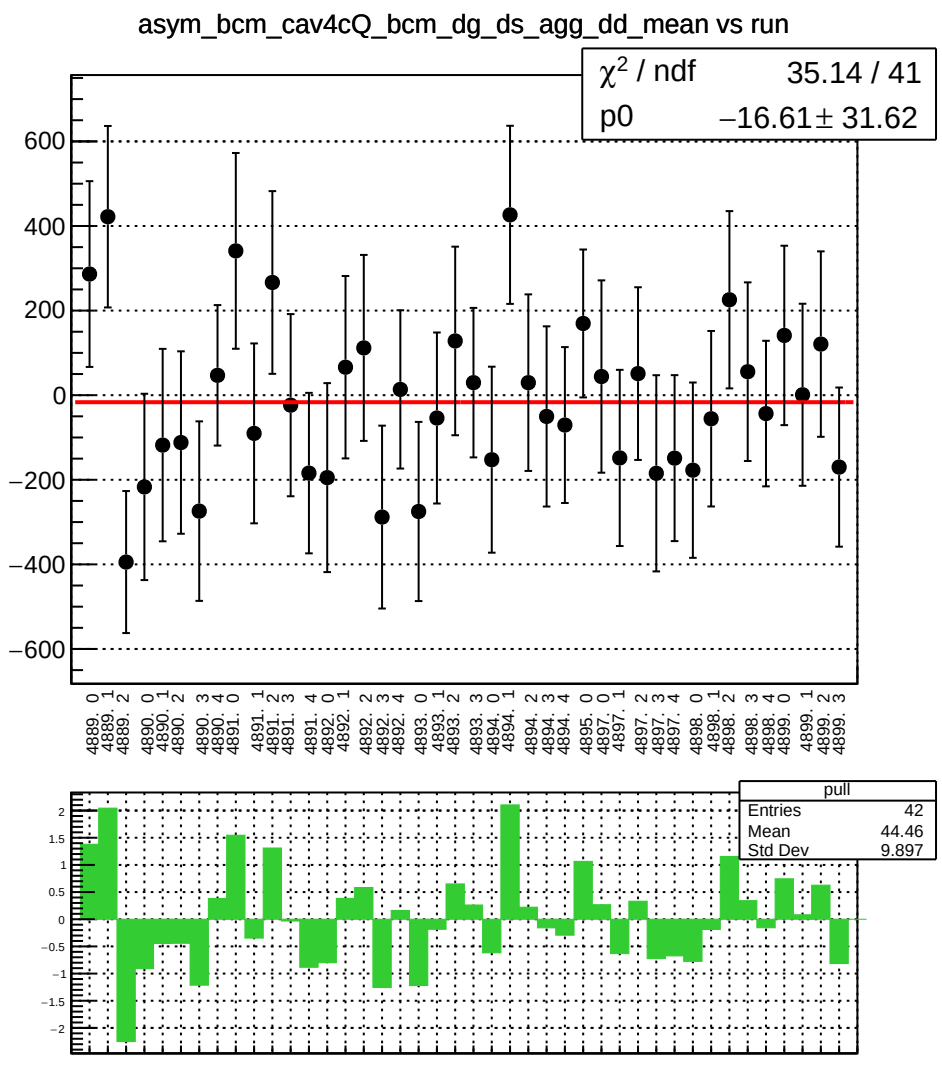

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3505 / 41
p0 183.8 ± 0.2013
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

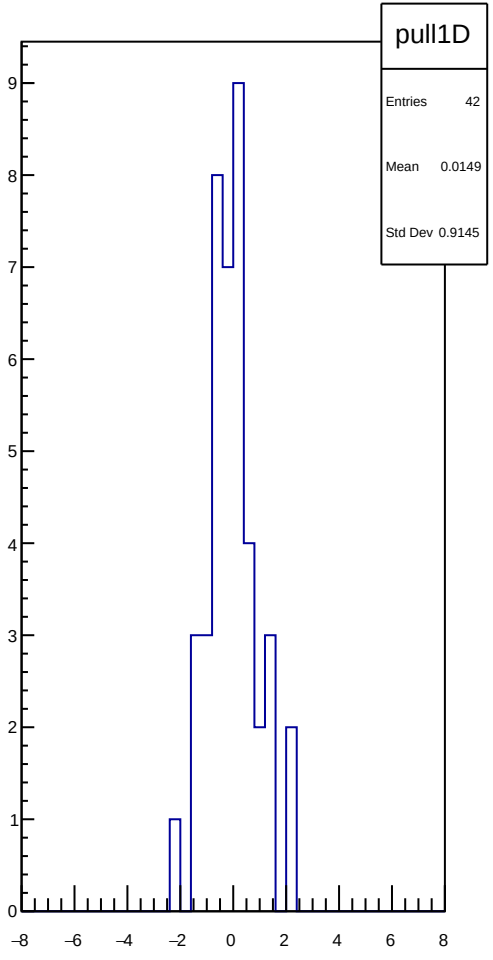

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 42.19 / 41
p0 −51.44 ± 40.91
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 75.77
Std Dev 59
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.02197
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

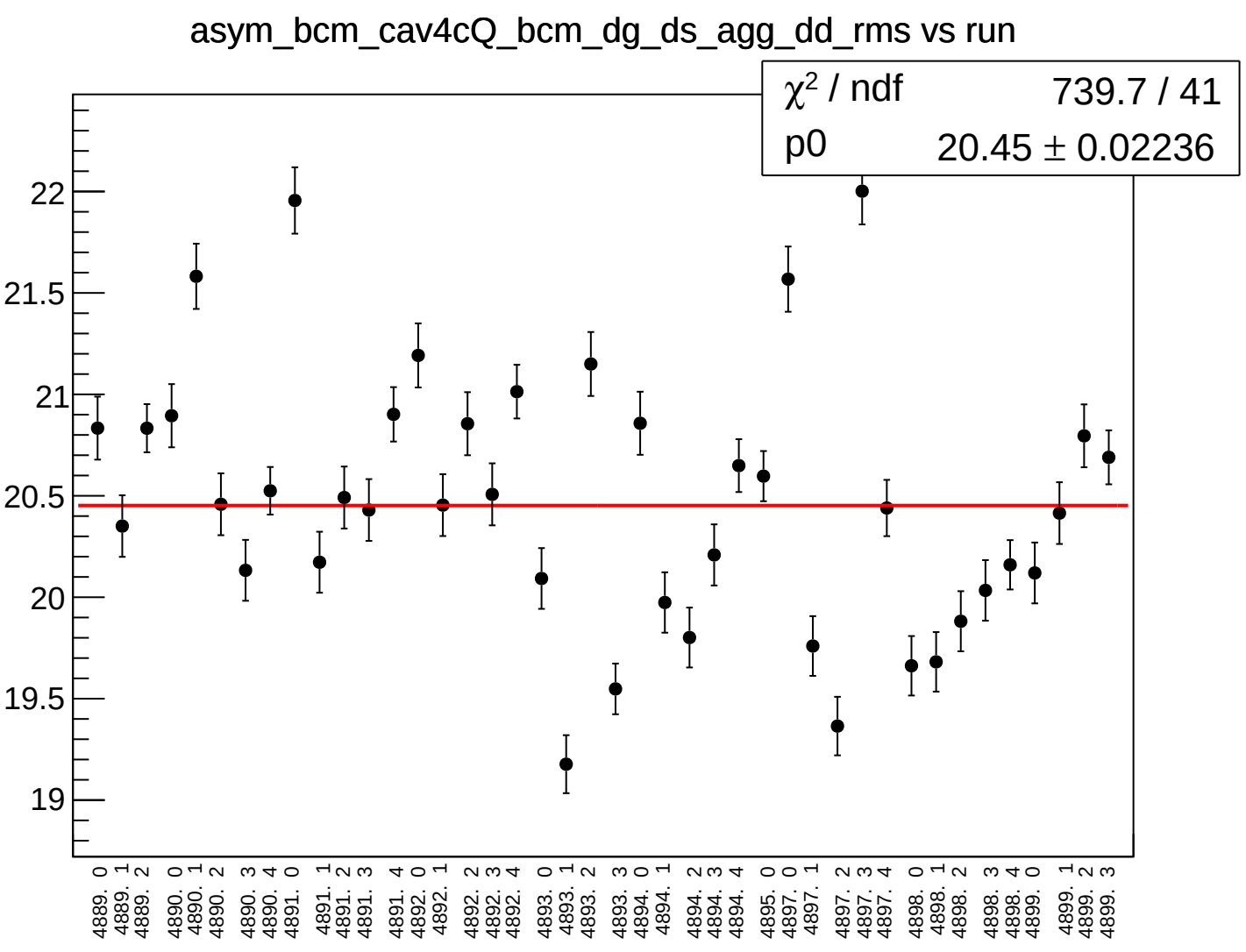

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 964.7 / 41
p0 26.46 ± 0.02893
29
28
27
26
25
24
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

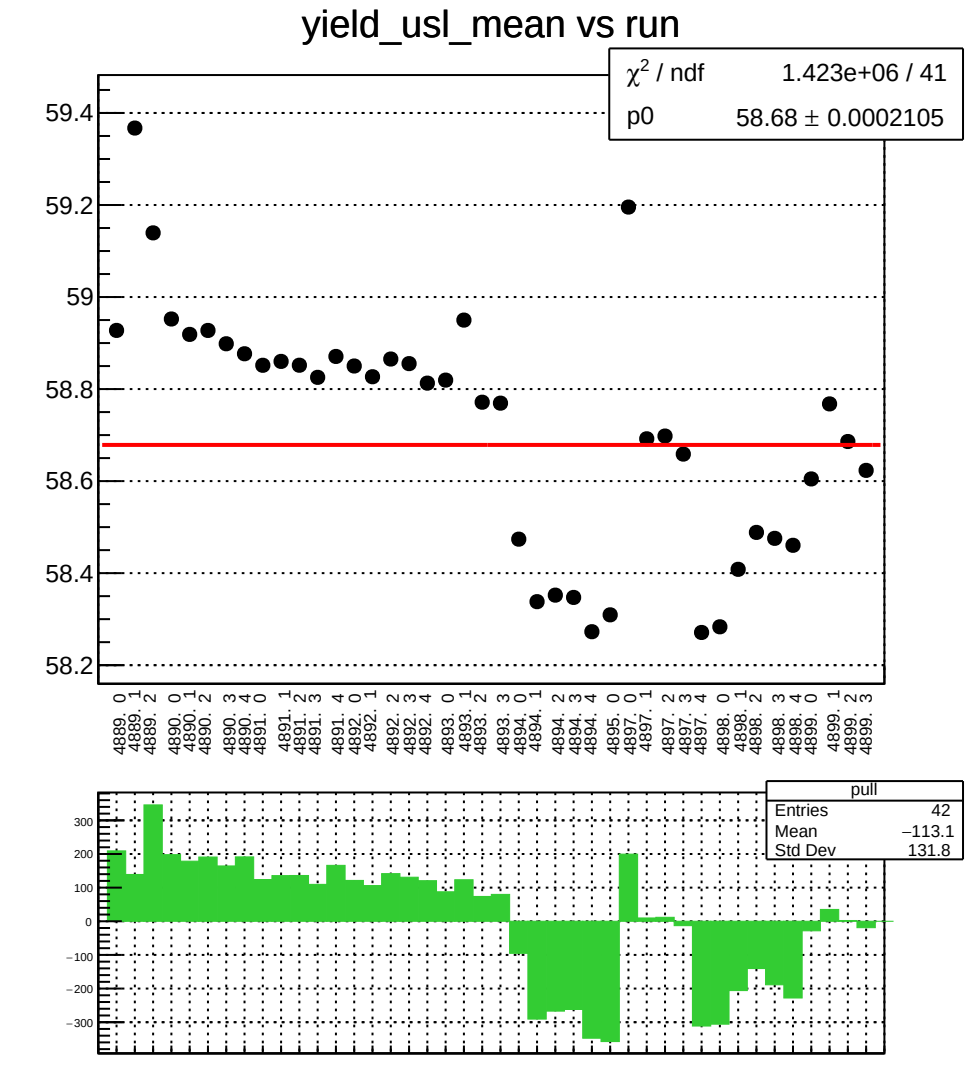

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.433 / 41
p0 186.6 ± 279
pull
Entries 42
Mean −122.4
Std Dev 145.7
pull1D
Entries 42
Mean −0.00705
Std Dev 0.2858

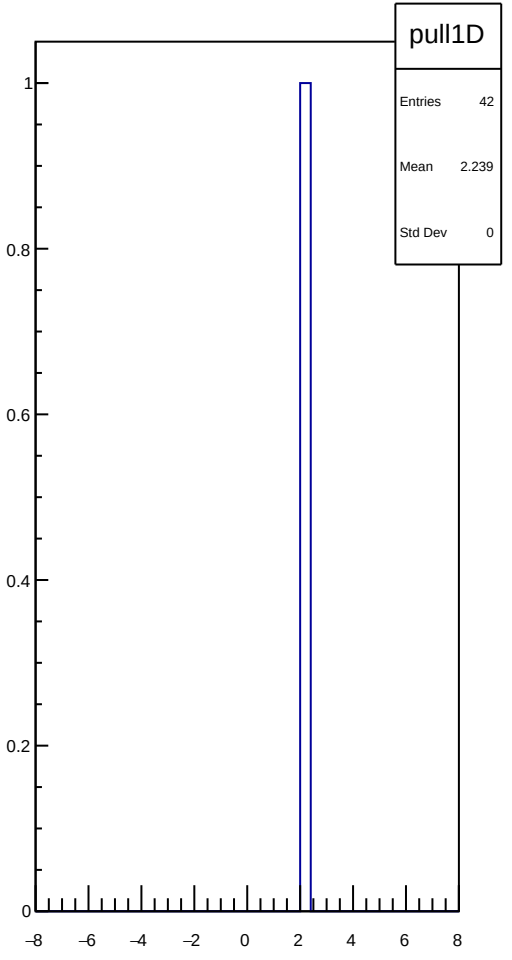

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3708 / 41
p0 180.2 ± 0.1973
200
195
190
185
180
175
170
165
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

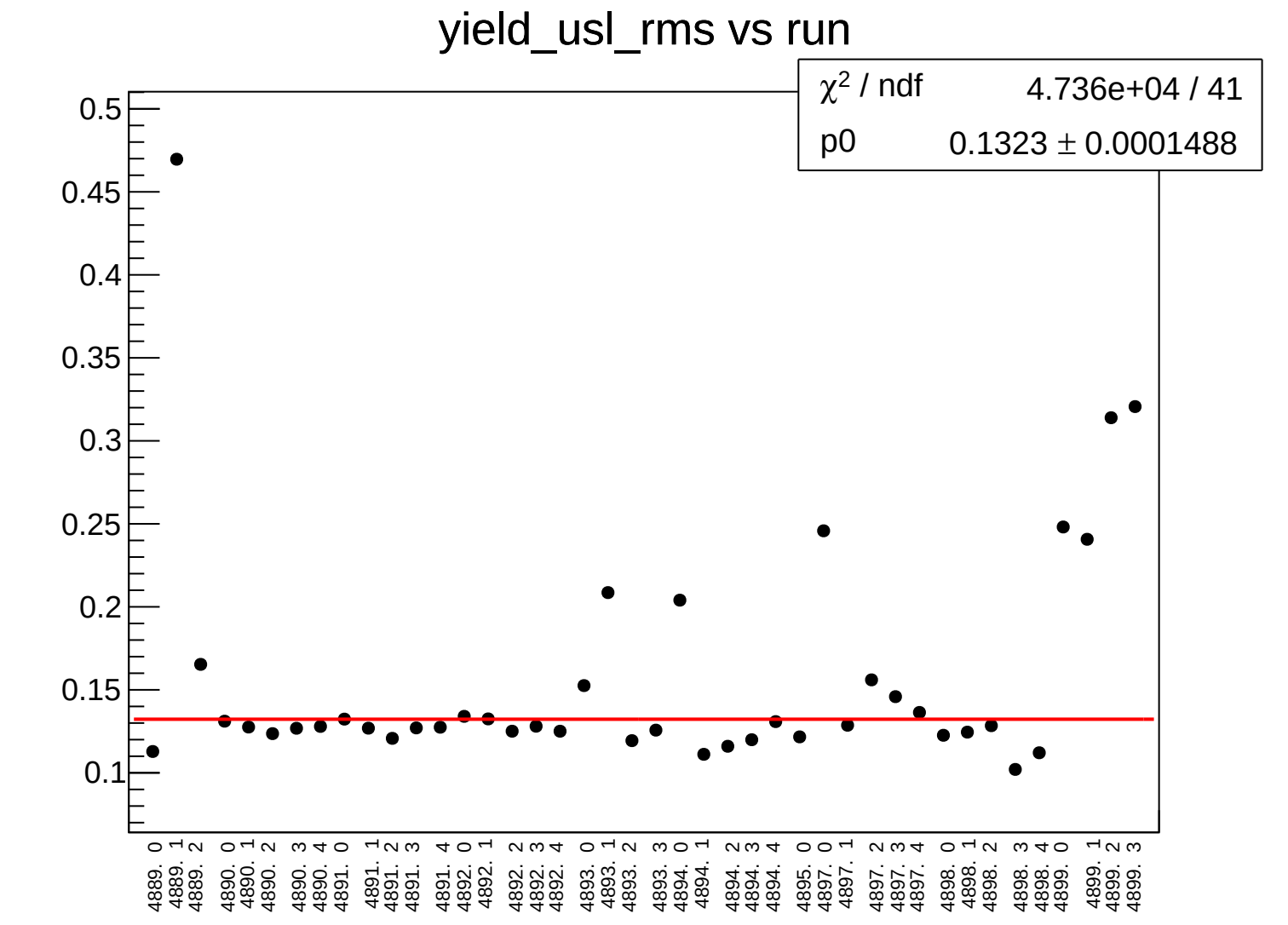

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 35.14 / 41
p0 −16.61 ± 31.62
600
400
200
0
−200
−400
−600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 44.46
Std Dev 9.897
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

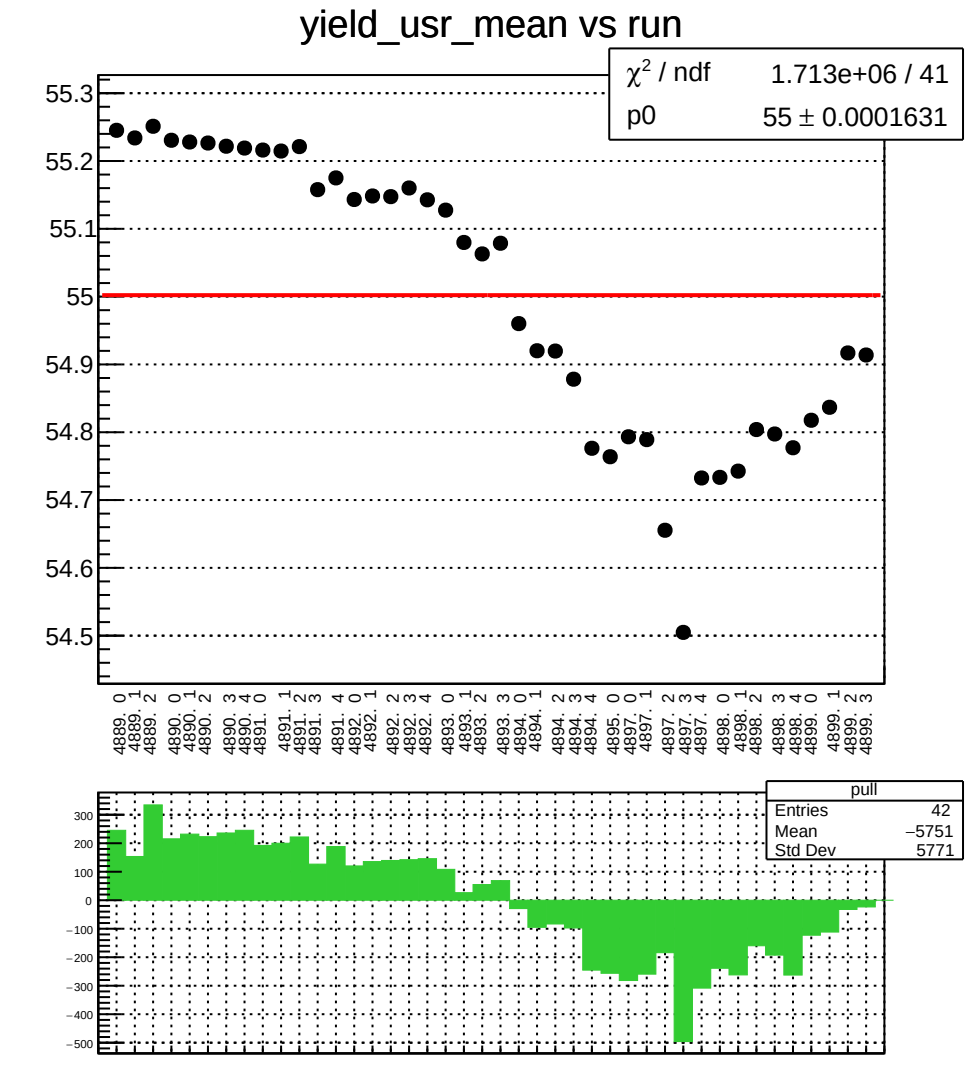

pull1D
Entries 42
Mean 0.0149
Std Dev 0.9145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

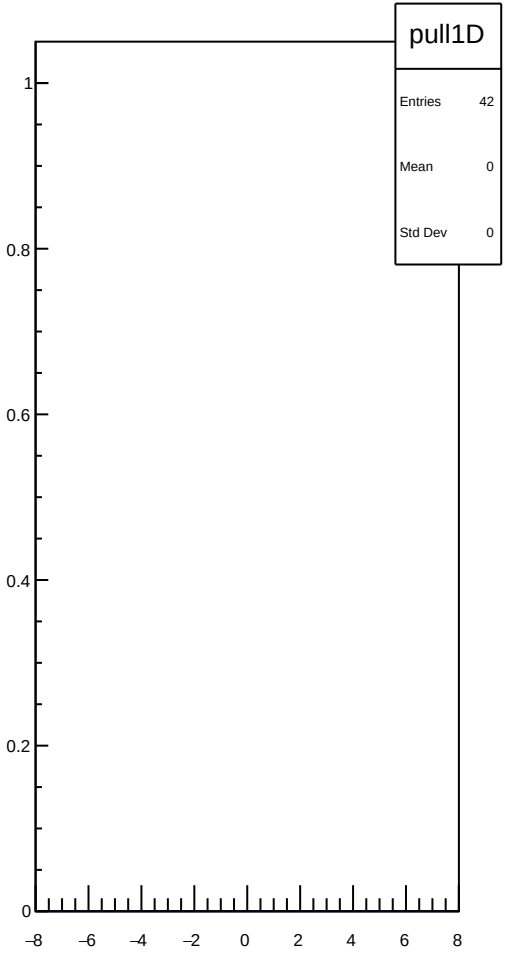

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 739.7 / 41
p0 20.45 ± 0.02236
22
21.5
21
20.5
20
19.5
19
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

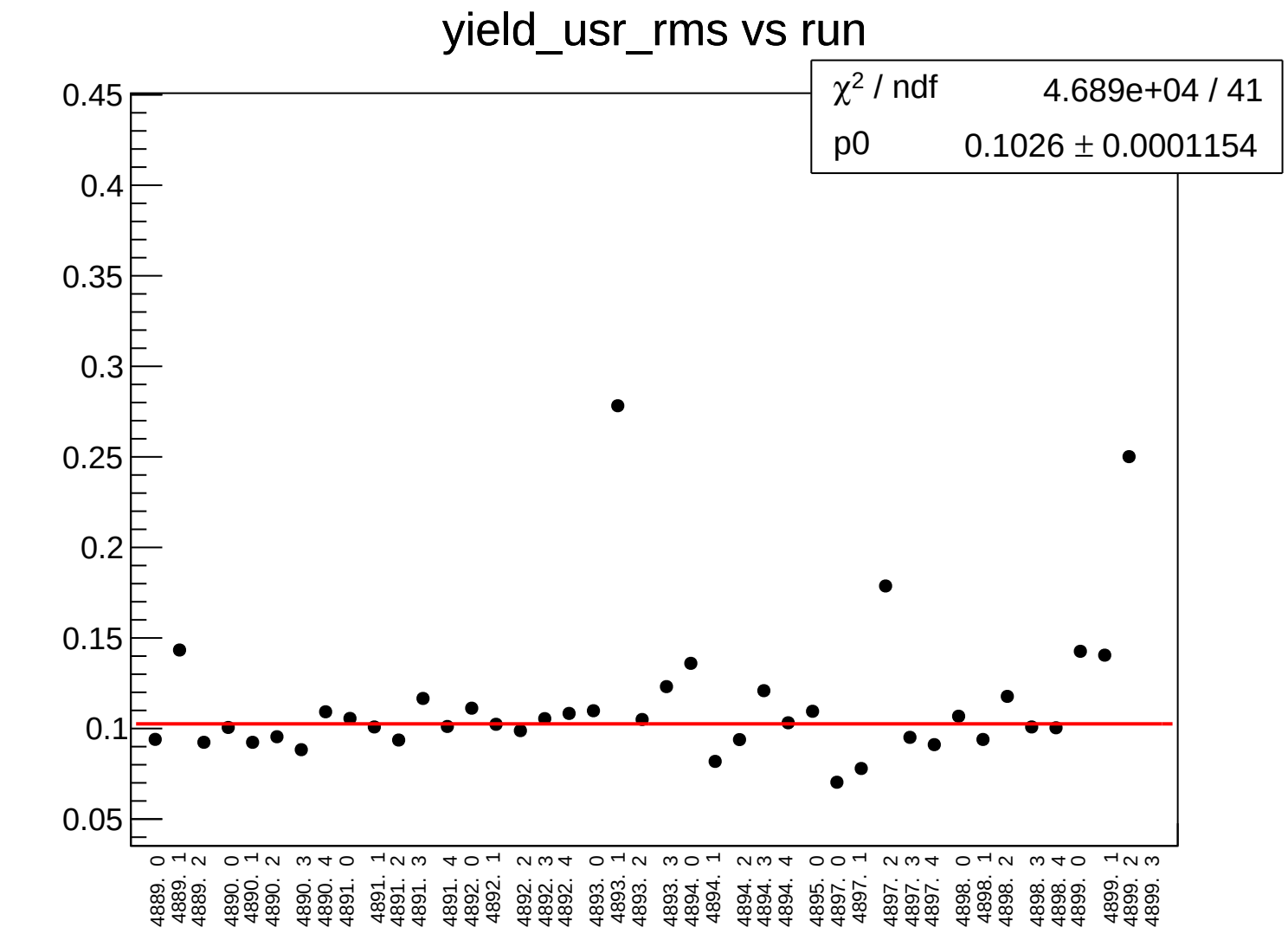

yield_usl_mean vs run
χ² / ndf 1.423e+06 / 41
p0 58.68 ± 0.0002105
59.4
59.2
59
58.8
58.6
58.4
58.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −113.1
Std Dev 131.8
300
200
100
0
−100
−200
−300

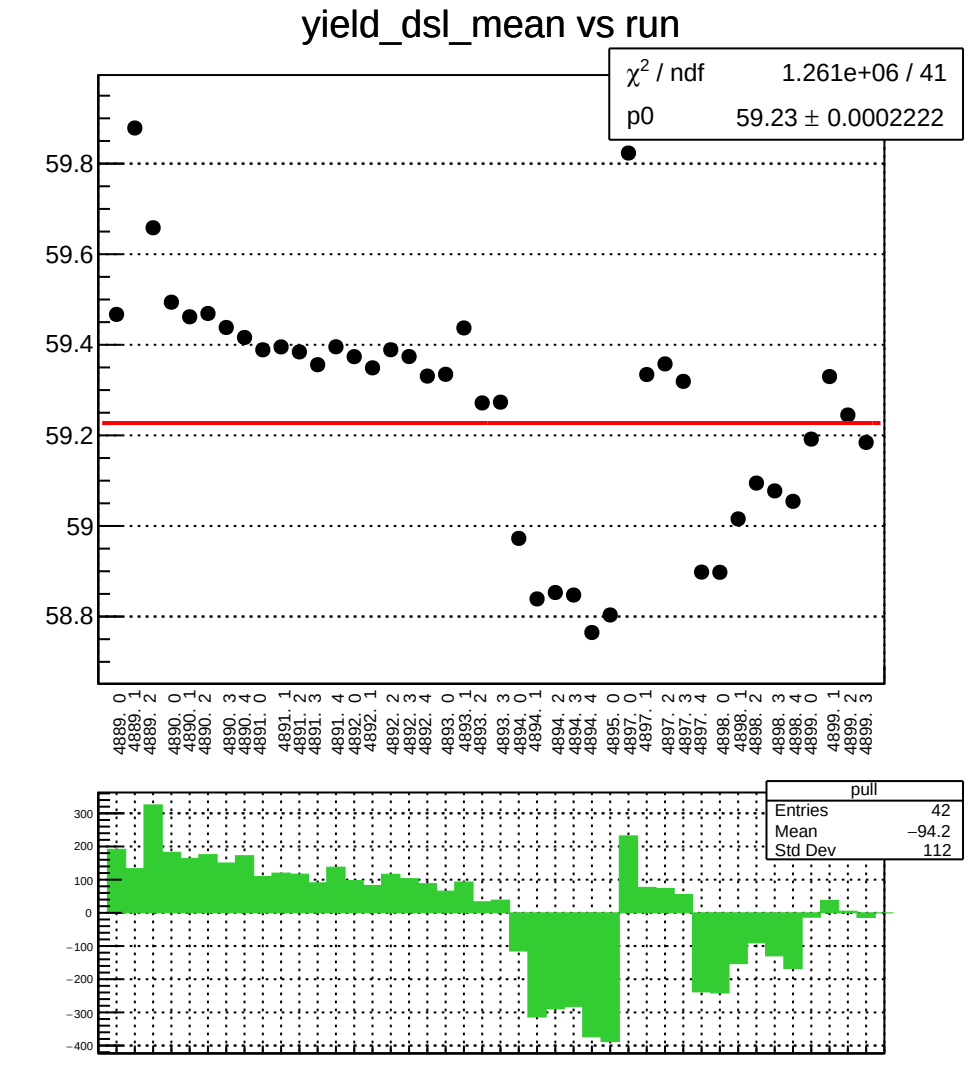

pull1D
Entries 42
Mean 2.239
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

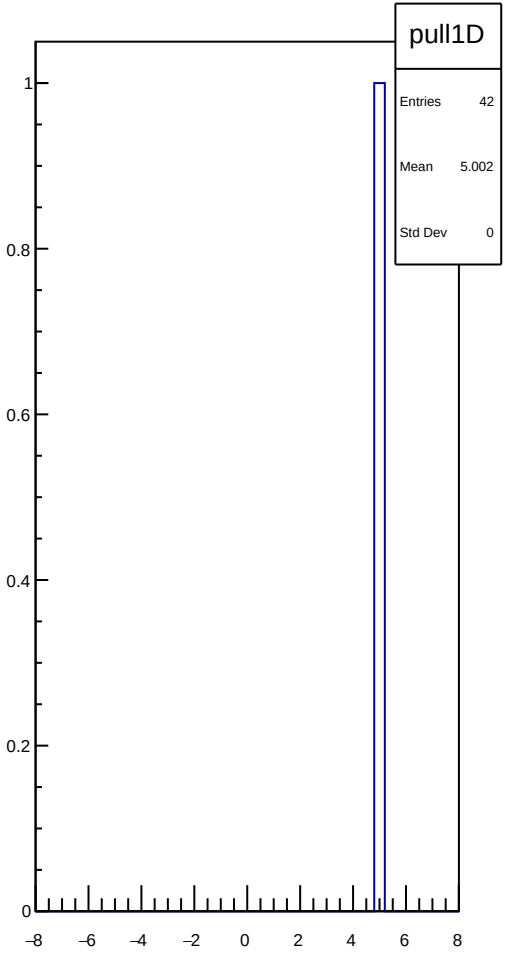

yield_usl_rms vs run
χ² / ndf 4.736e+04 / 41
p0 0.1323 ± 0.0001488
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

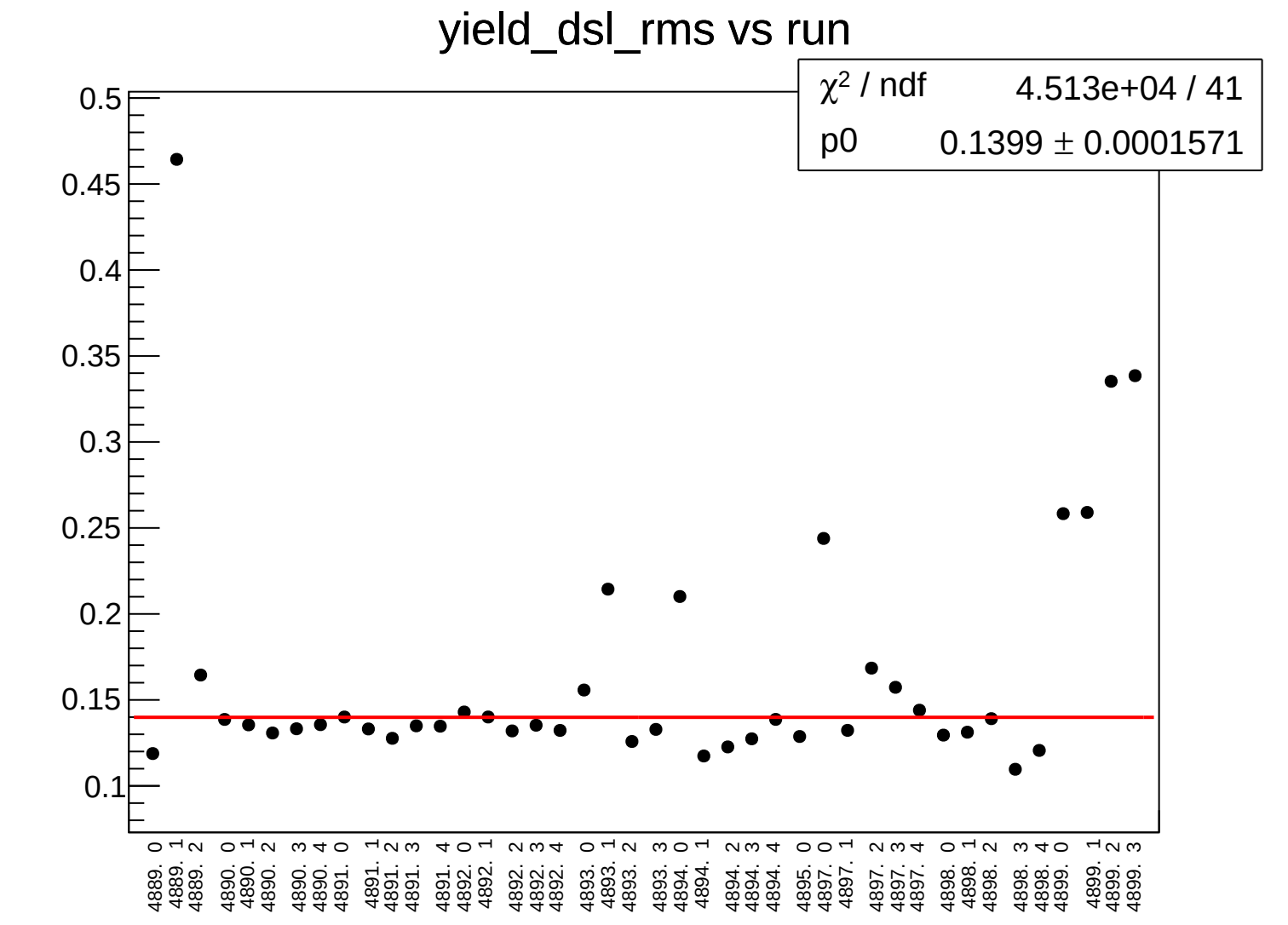

yield_usr_mean vs run
χ² / ndf 1.713e+06 / 41
p0 55 ± 0.0001631
55.3
55.2
55.1
55
54.9
54.8
54.7
54.6
54.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −5751
Std Dev 5771
300
200
100
0
−100
−200
−300
−400
−500

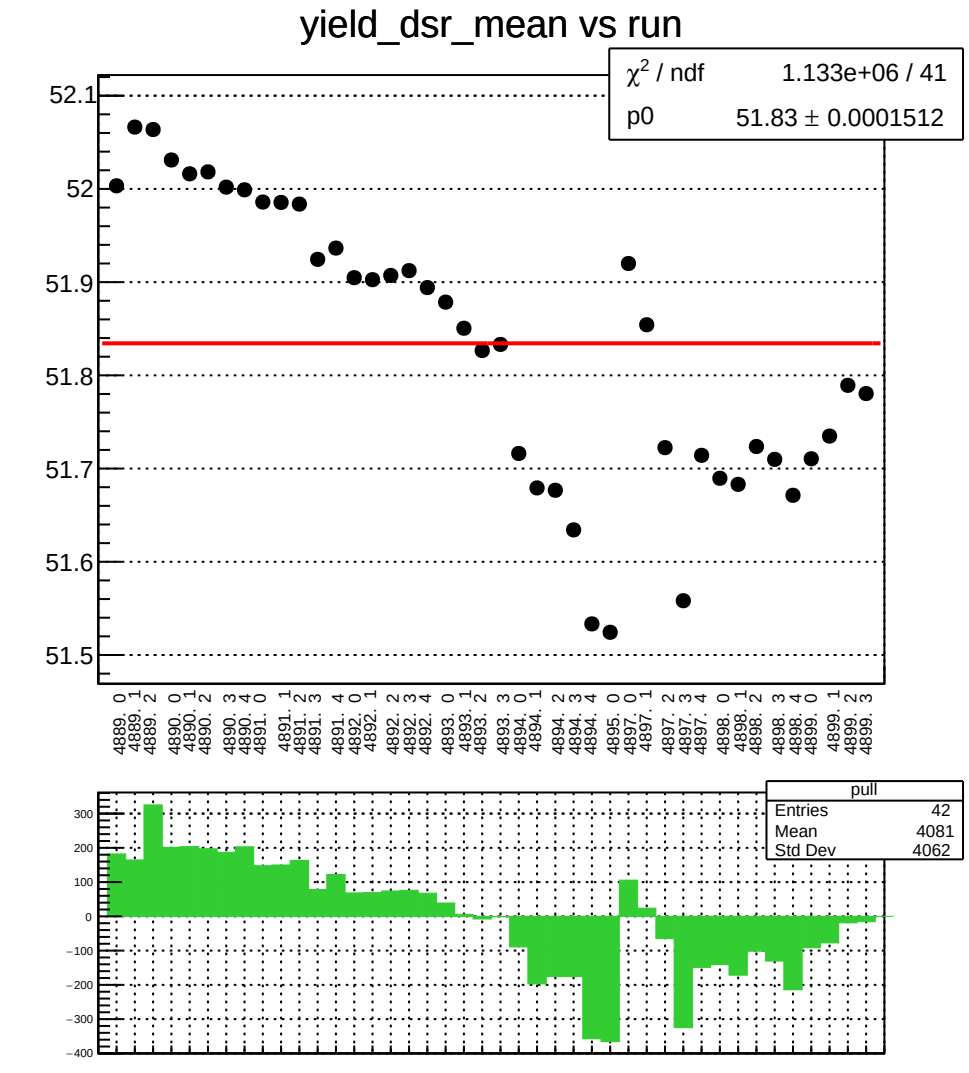

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

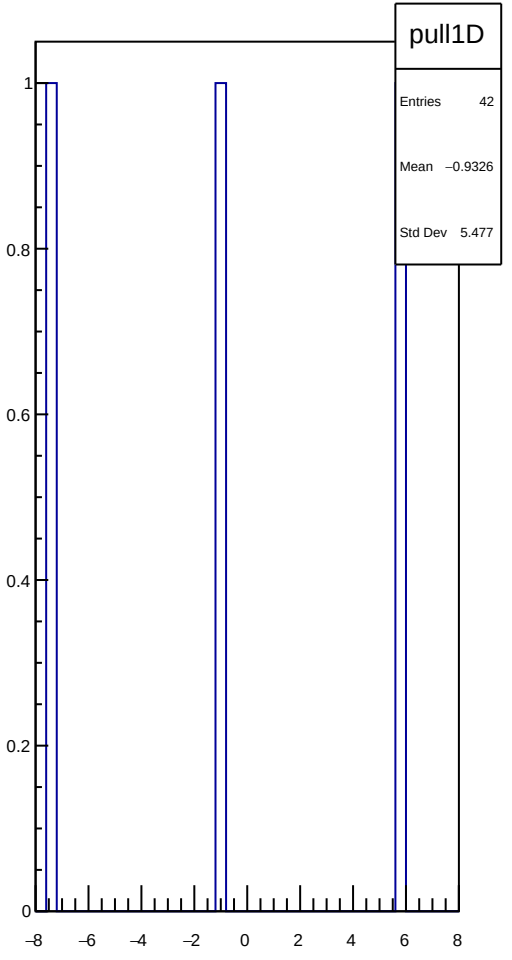

yield_usr_rms vs run
χ² / ndf 4.689e+04 / 41
p0 0.1026 ± 0.0001154
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

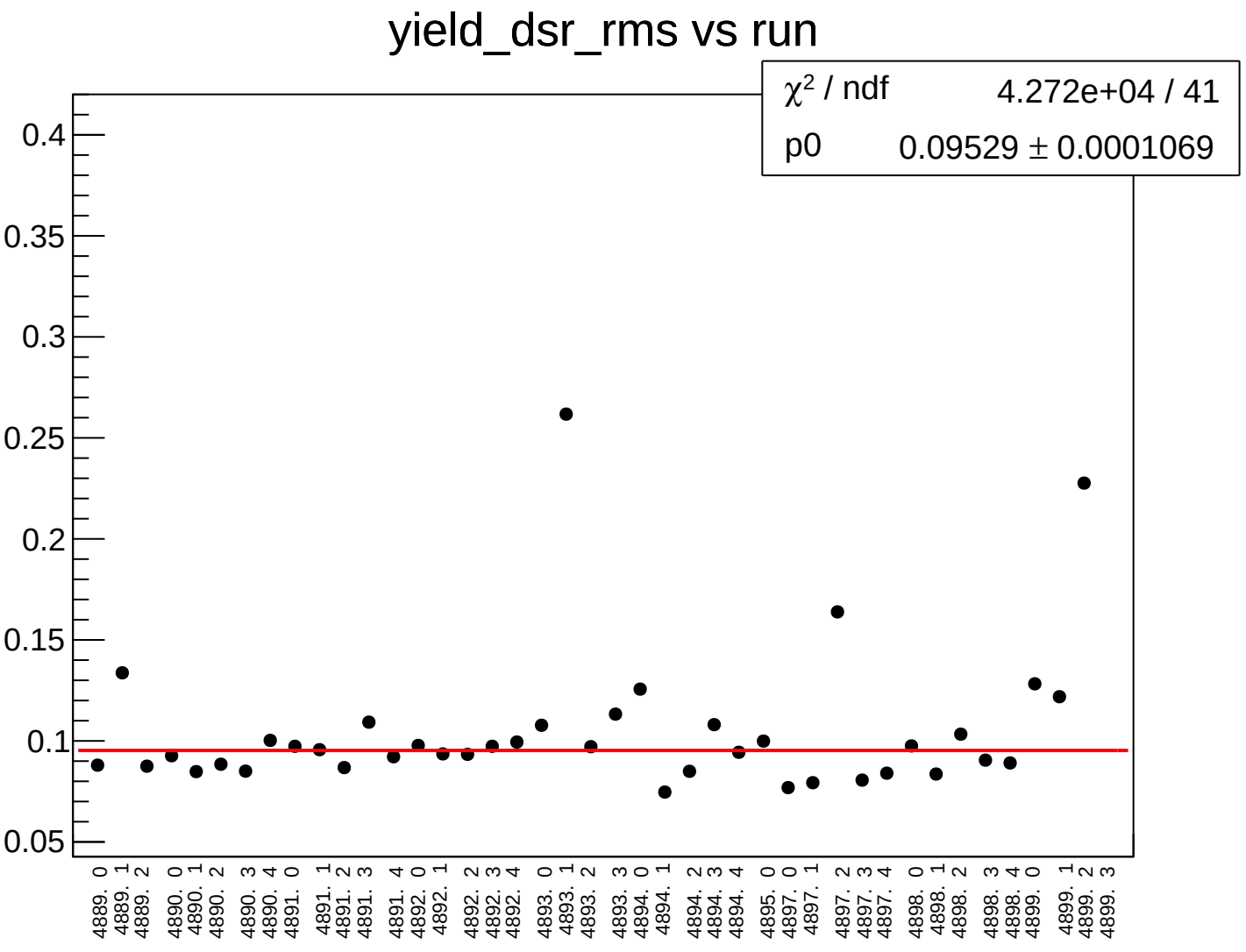

yield_dsl_mean vs run
χ² / ndf 1.261e+06 / 41
p0 59.23 ± 0.0002222
59.8
59.6
59.4
59.2
59
58.8
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −94.2
Std Dev 112
300
200
100
0
−100
−200
−300
−400

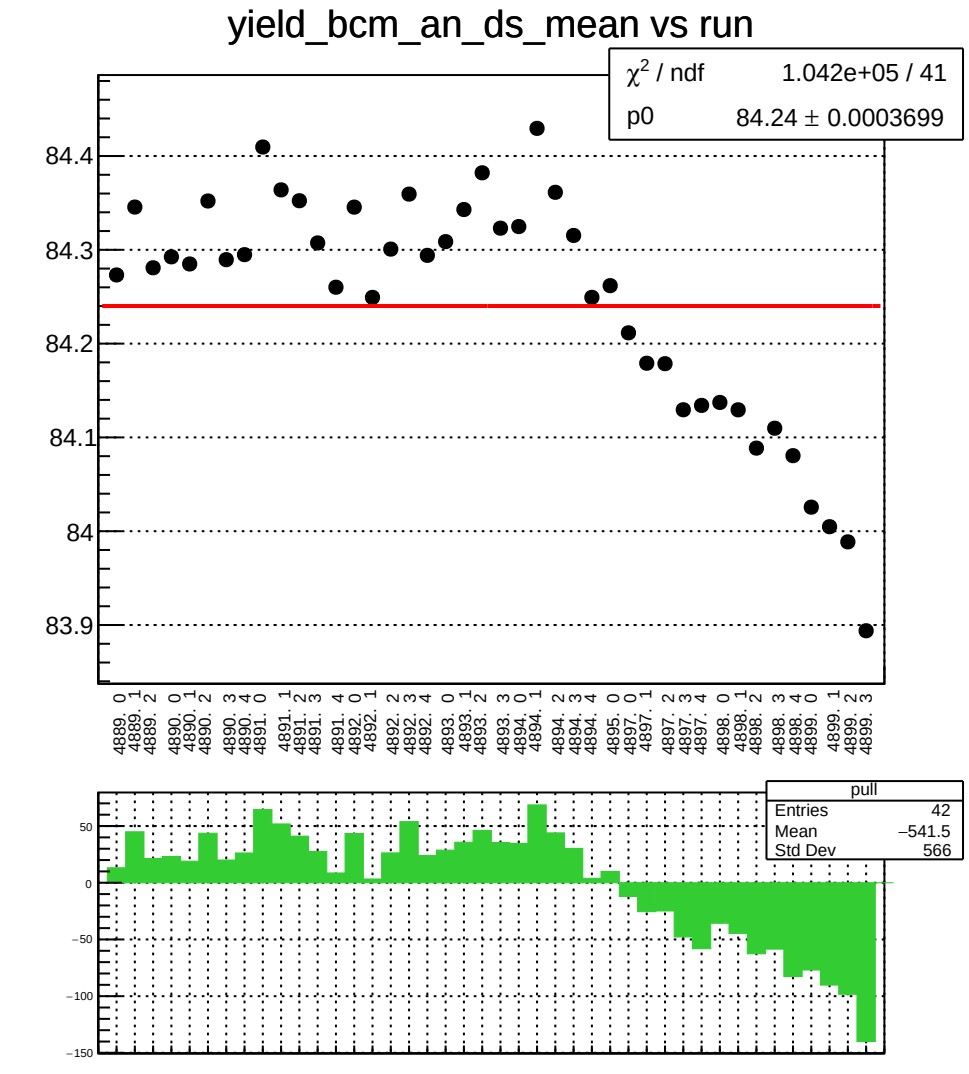

pull1D
Entries 42
Mean 5.002
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

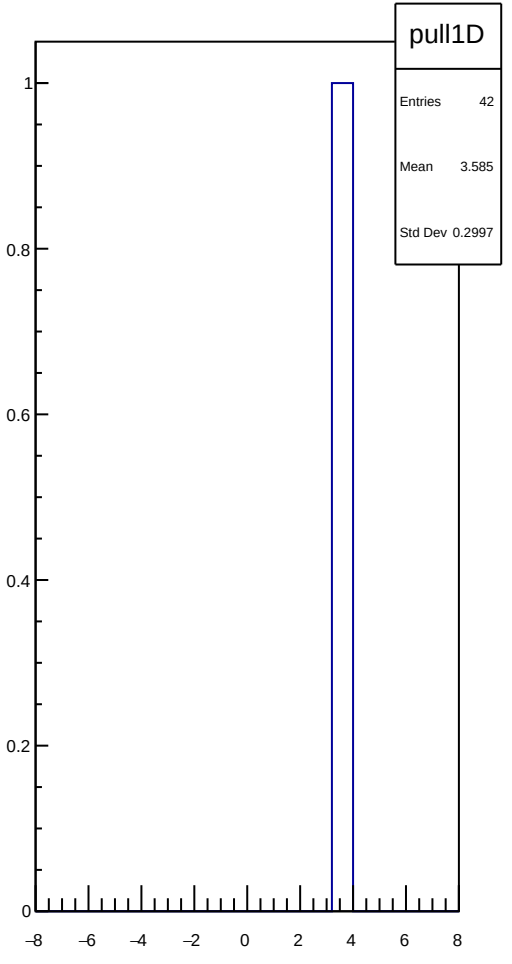

yield_dsl_rms vs run
χ² / ndf 4.513e+04 / 41
p0 0.1399 ± 0.0001571
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

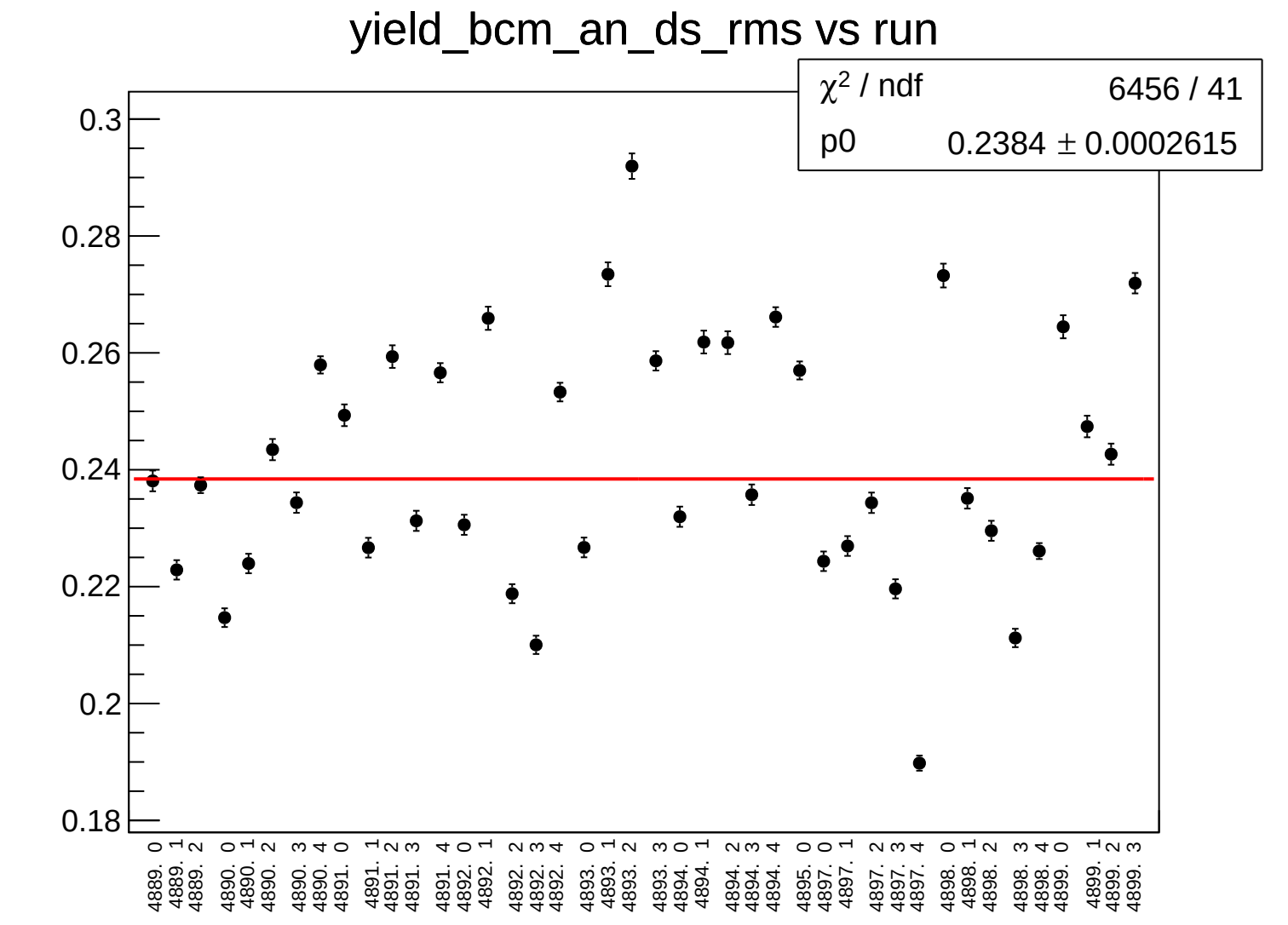

yield_dsr_mean vs run
χ² / ndf 1.133e+06 / 41
p0 51.83 ± 0.0001512
52.1
52
51.9
51.8
51.7
51.6
51.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 4081
Std Dev 4062
300
200
100
0
−100
−200
−300
−400

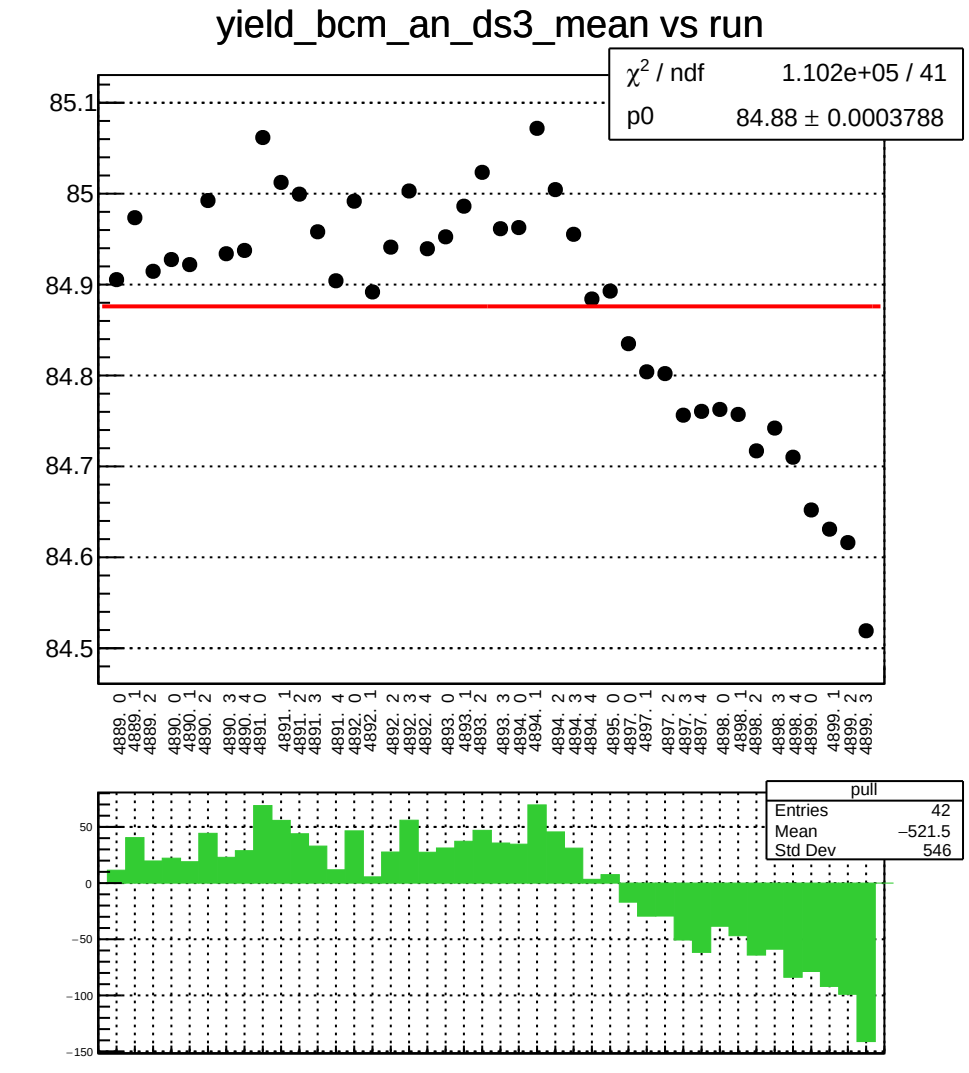

pull1D
Entries 42
Mean −0.9326
Std Dev 5.477
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

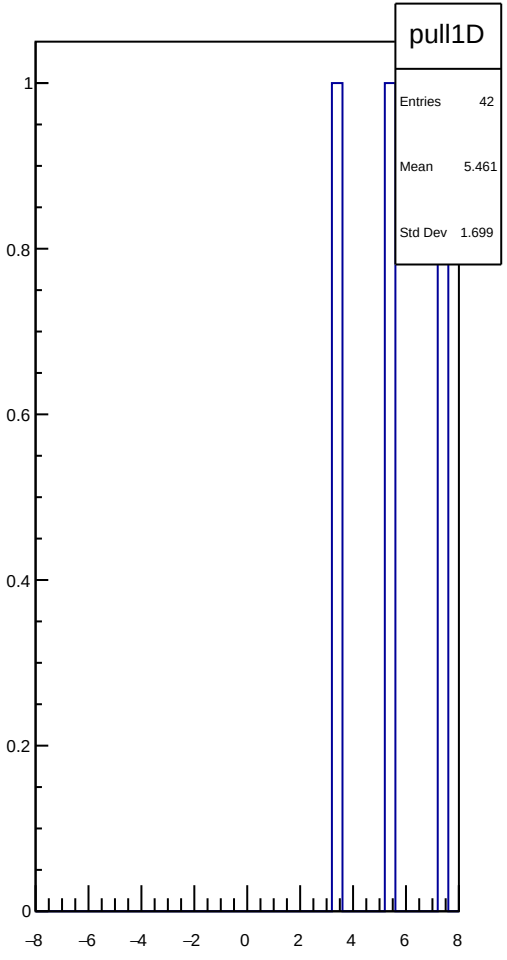

yield_dsr_rms vs run
χ² / ndf 4.272e+04 / 41
p0 0.09529 ± 0.0001069
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

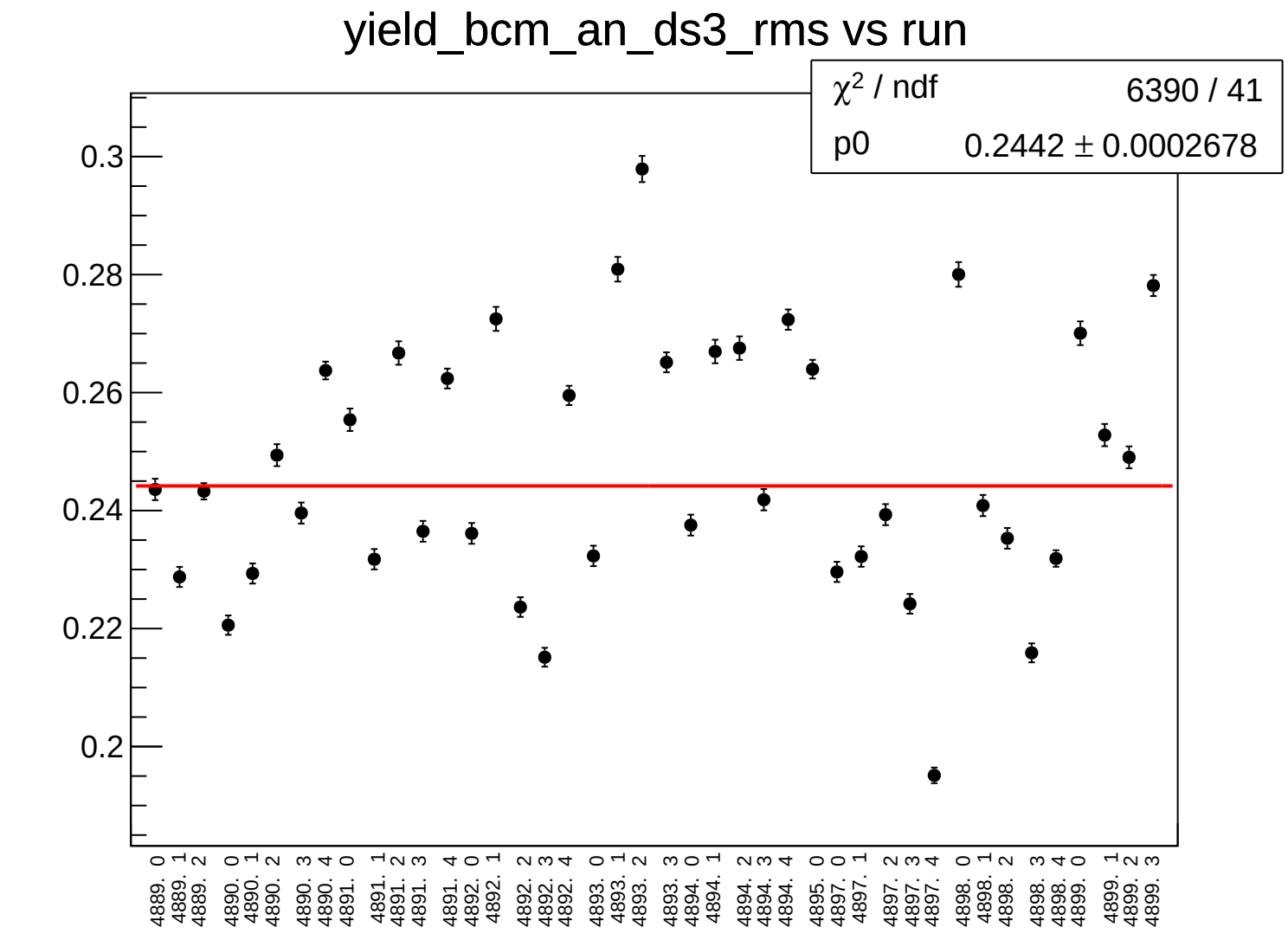

yield_bcm_an_ds_mean vs run
χ² / ndf 1.042e+05 / 41
p0 84.24 ± 0.0003699
84.4
84.3
84.2
84.1
84
83.9
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −541.5
Std Dev 566
50
0
−50
−100
−150

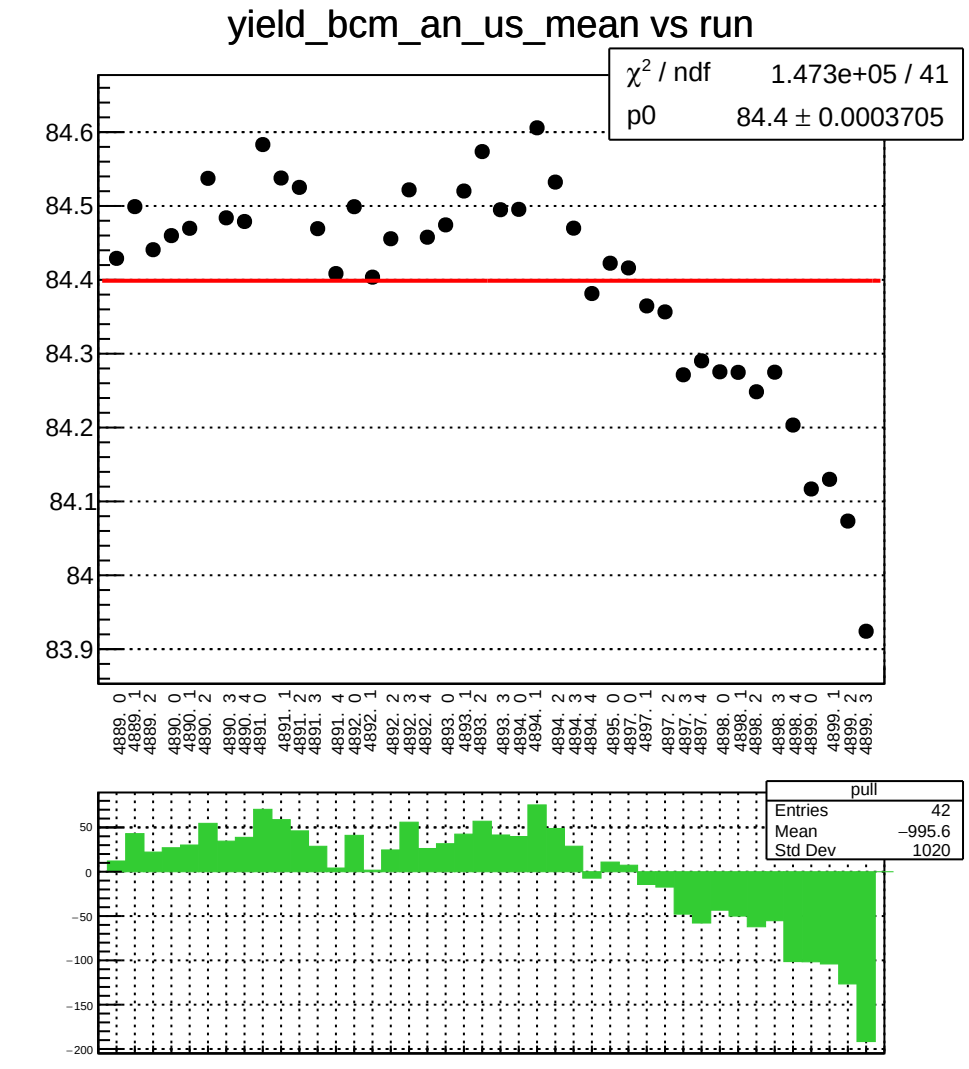

pull1D
Entries 42
Mean 3.585
Std Dev 0.2997
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

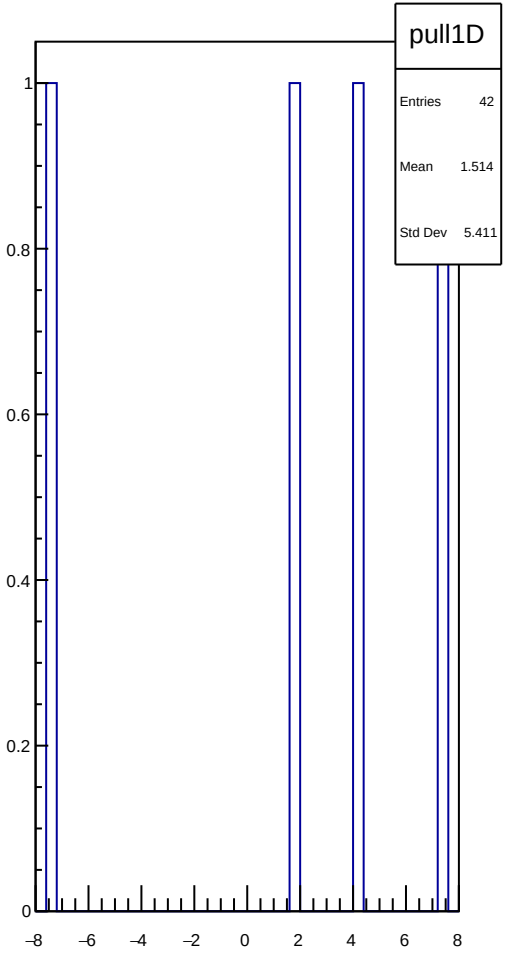

yield_bcm_an_ds_rms vs run
χ² / ndf 6456 / 41
p0 0.2384 ± 0.0002615
0.3
0.28
0.26
0.24
0.22
0.2
0.18
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

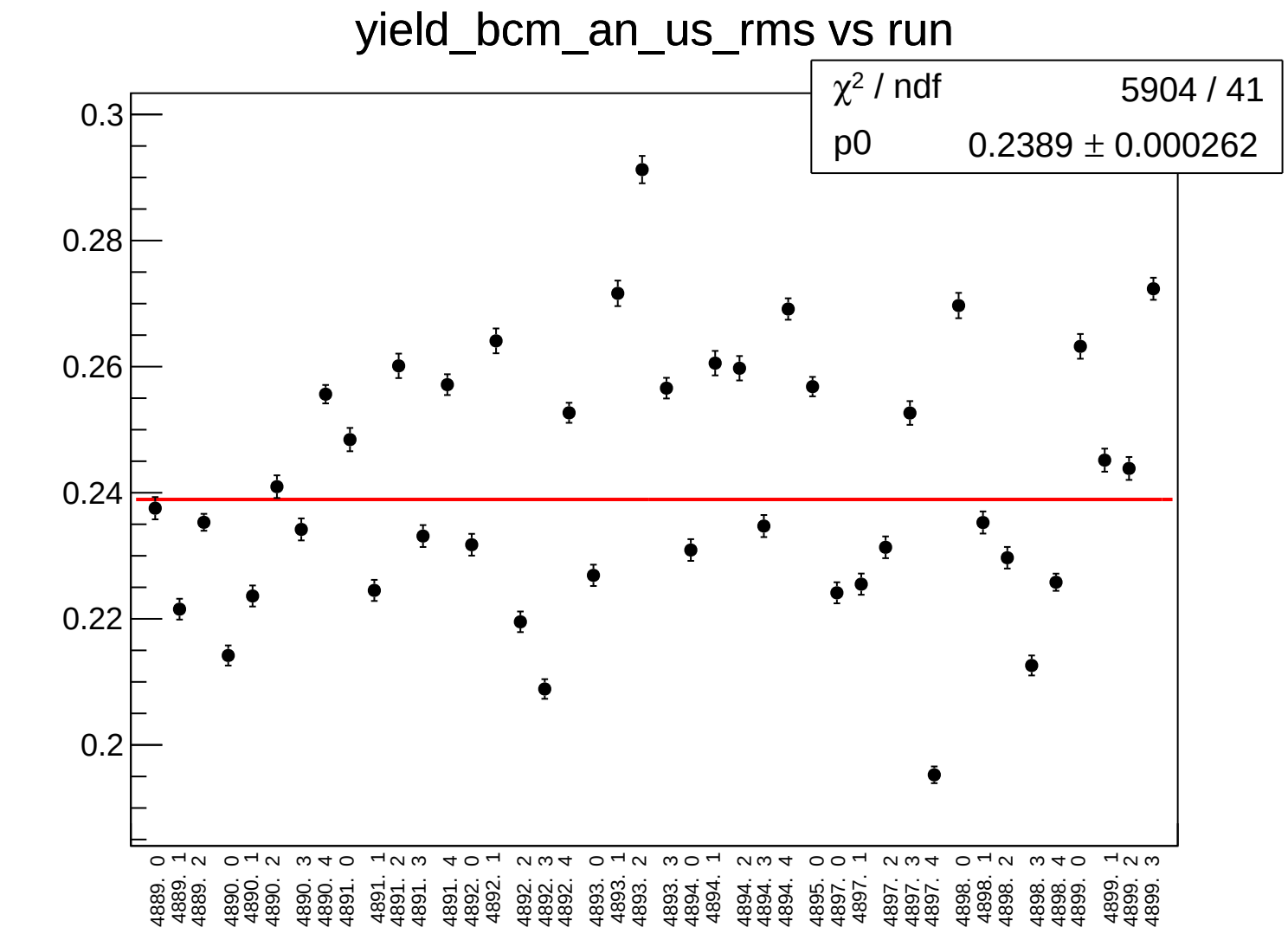

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.102e+05 / 41
p0 84.88 ± 0.0003788
85.1
85
84.9
84.8
84.7
84.6
84.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −521.5
Std Dev 546
50
0
−50
−100
−150

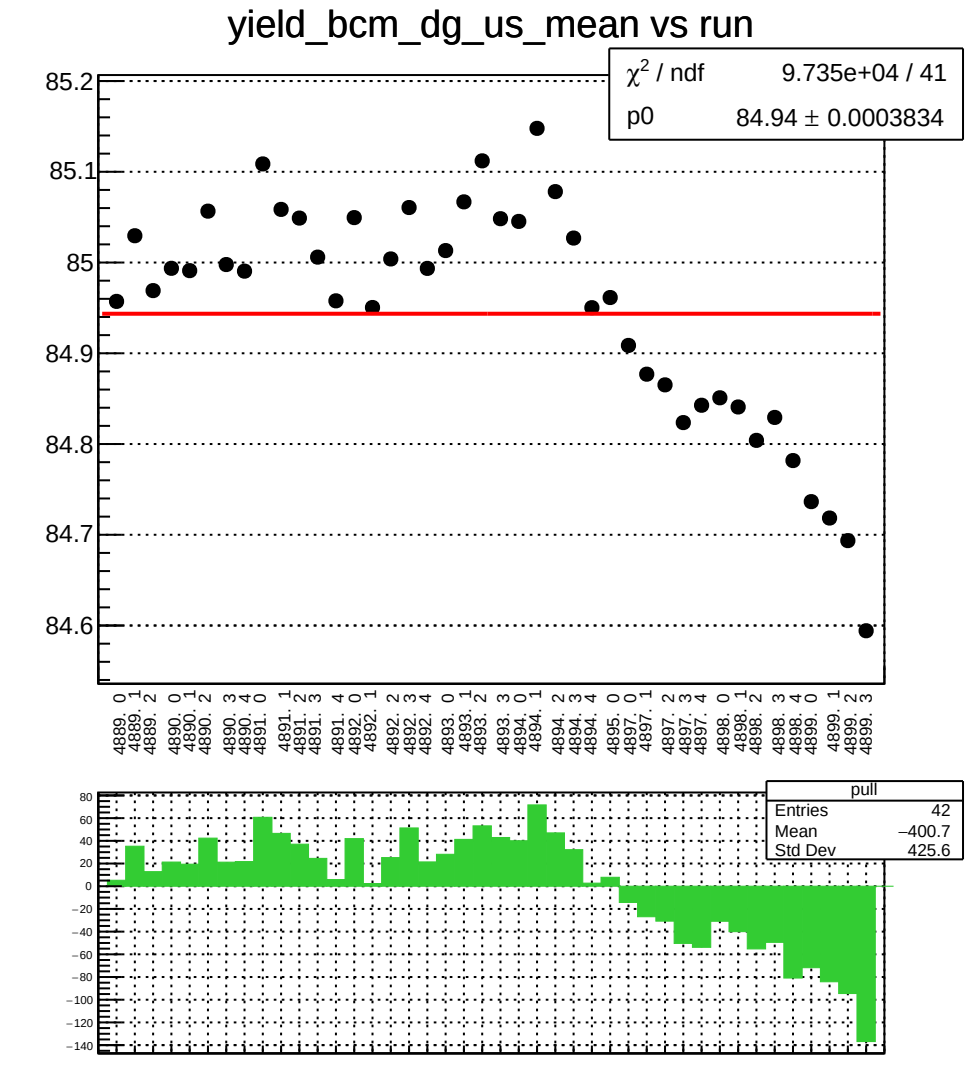

pull1D
Entries 42
Mean 5.461
Std Dev 1.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

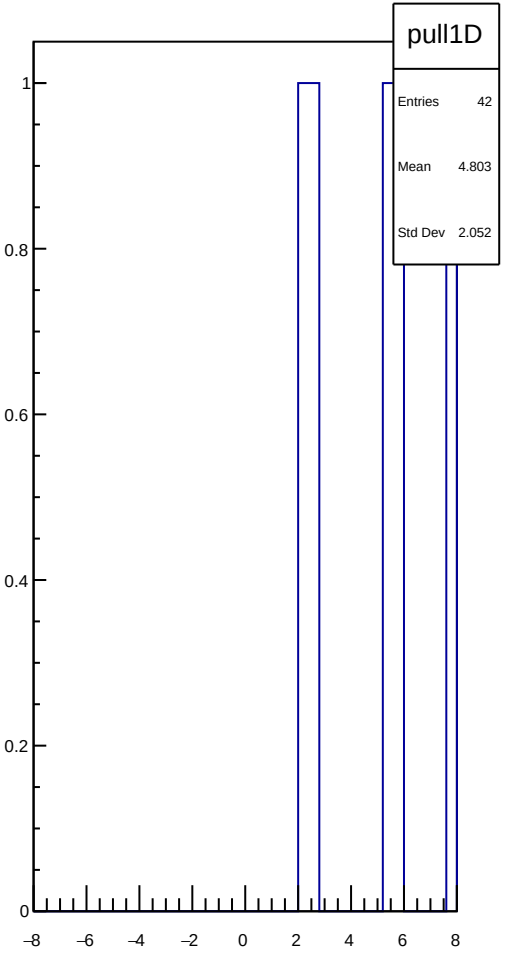

yield_bcm_an_ds3_rms vs run
χ² / ndf 6390 / 41
p0 0.2442 ± 0.0002678
0.3
0.28
0.26
0.24
0.22
0.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

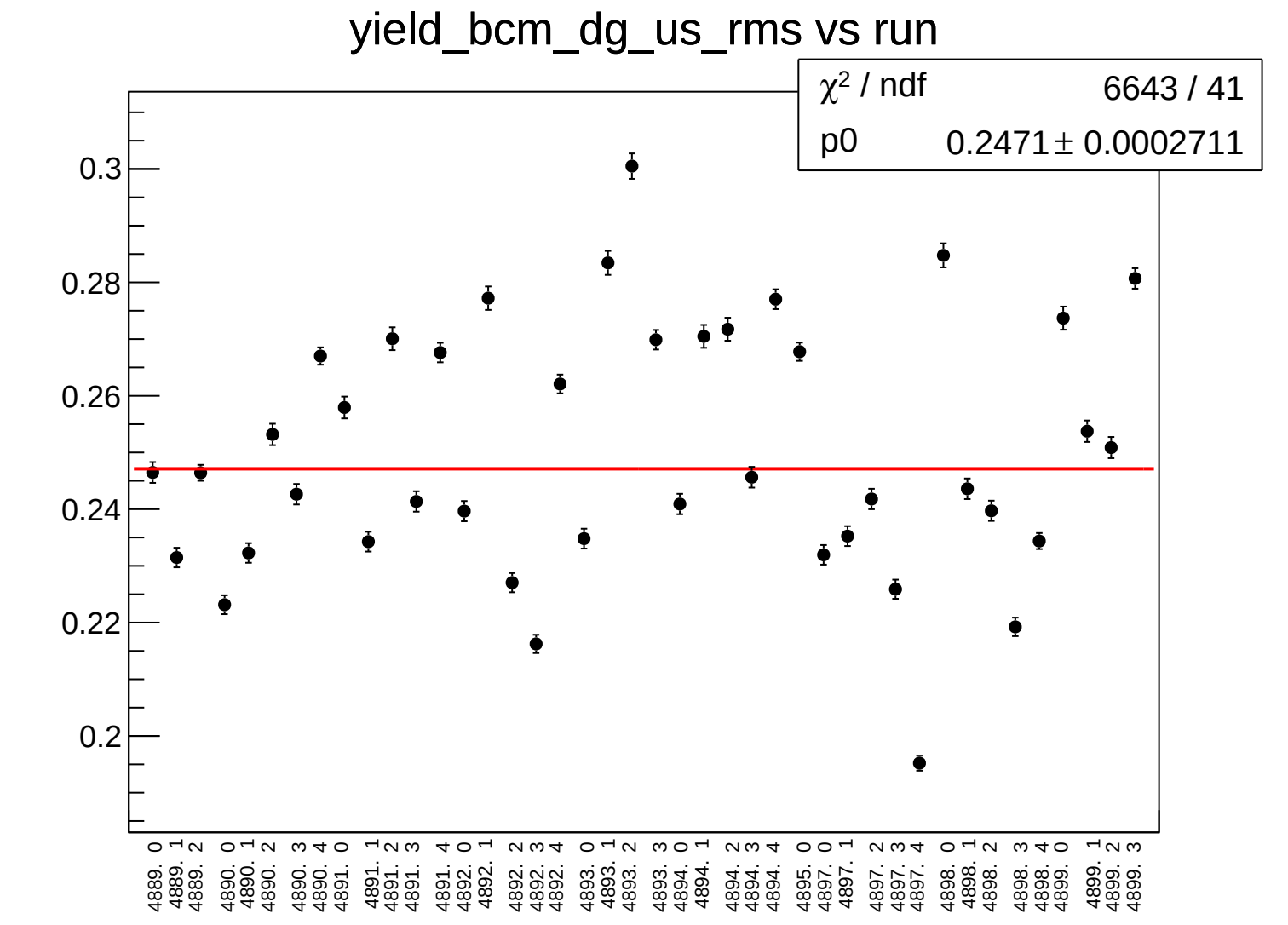

yield_bcm_an_us_mean vs run
χ² / ndf 1.473e+05 / 41
p0 84.4 ± 0.0003705
84.6
84.5
84.4
84.3
84.2
84.1
84
83.9
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −995.6
Std Dev 1020
50
0
−50
−100
−150
−200

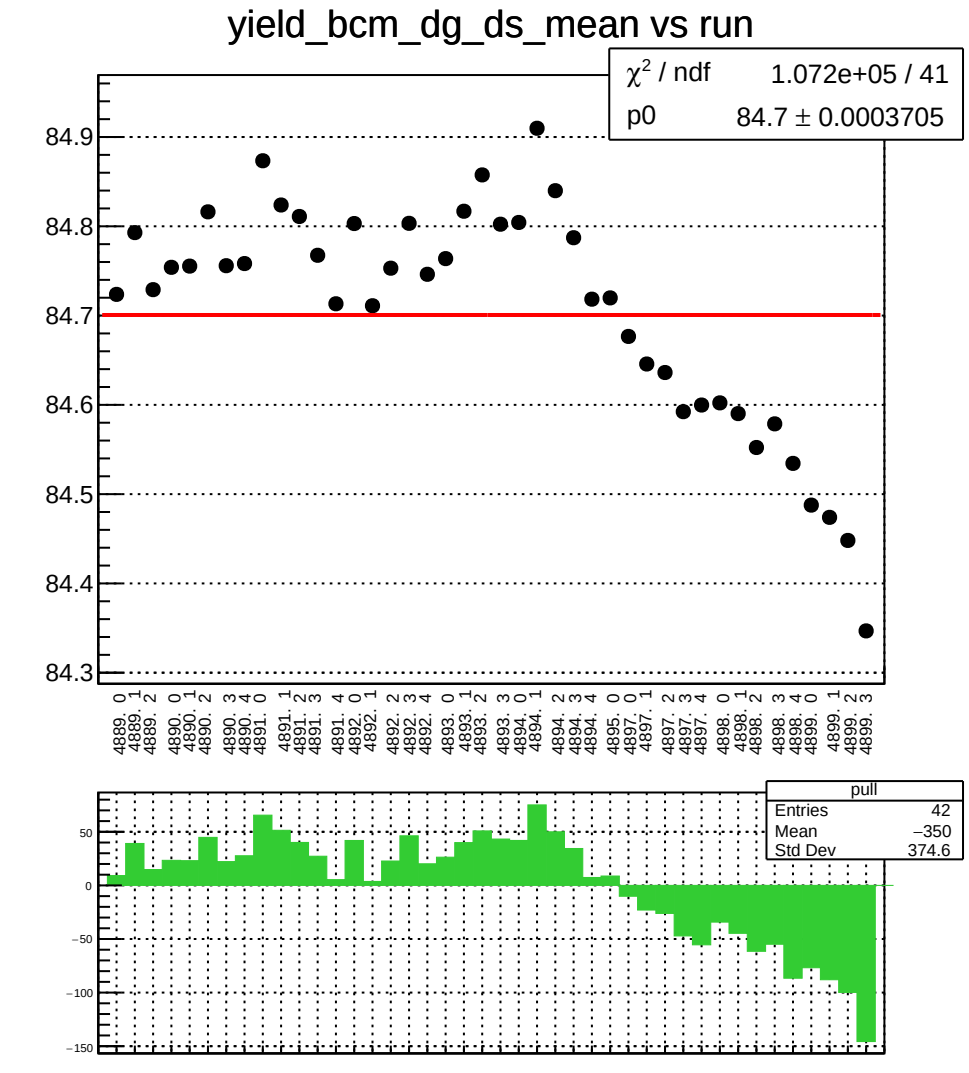

pull1D
Entries 42
Mean 1.514
Std Dev 5.411
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

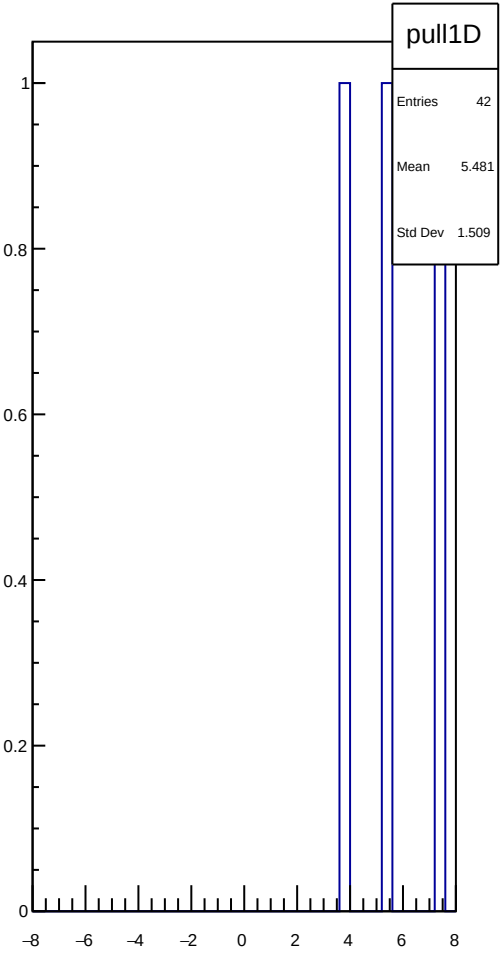

yield_bcm_an_us_rms vs run
χ² / ndf 5904 / 41
p0 0.2389 ± 0.000262
0.3
0.28
0.26
0.24
0.22
0.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

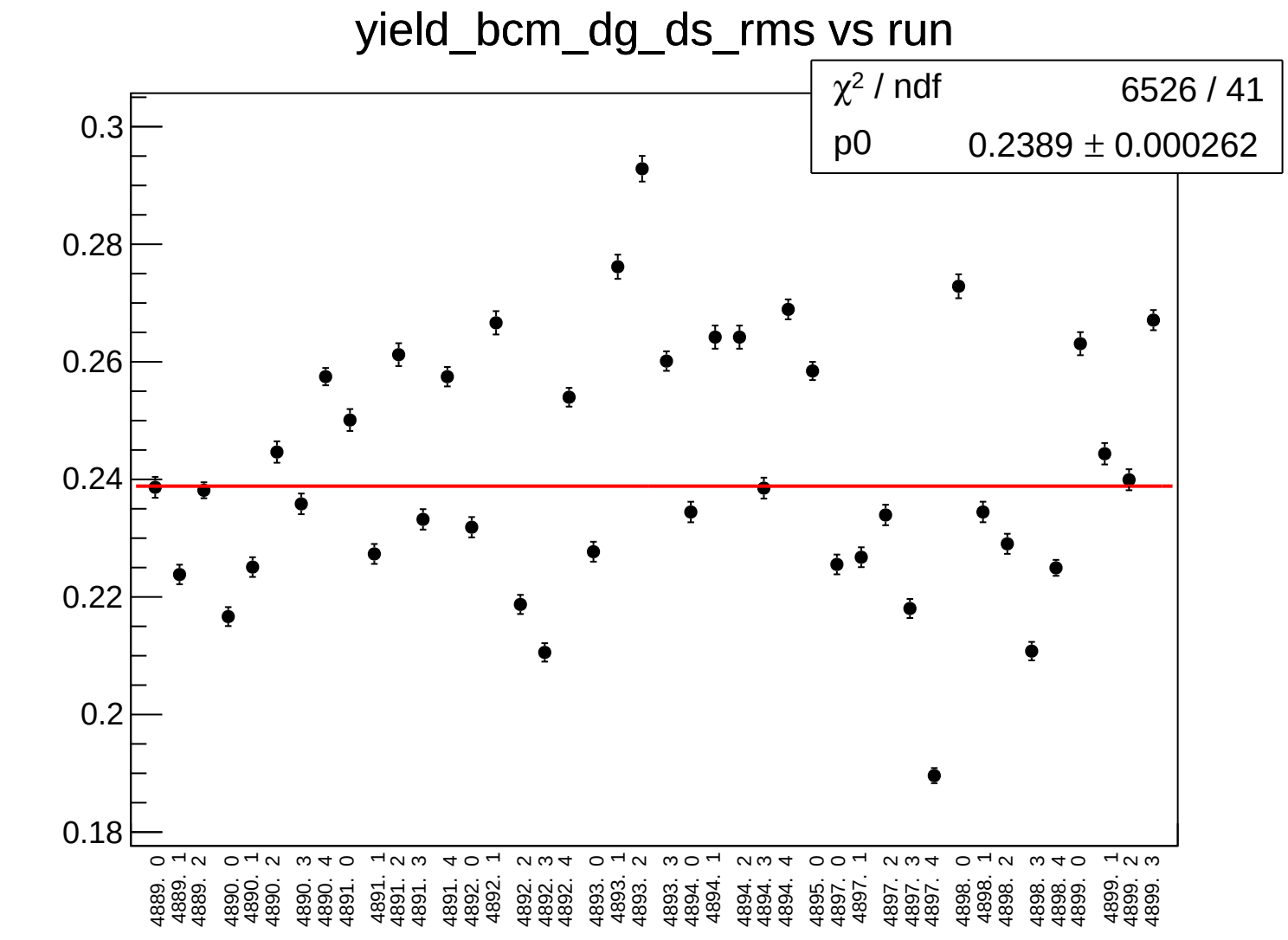

yield_bcm_dg_us_mean vs run
χ² / ndf 9.735e+04 / 41
p0 84.94 ± 0.0003834
85.2
85.1
85
84.9
84.8
84.7
84.6
pull
Entries 42
Mean −400.7
Std Dev 425.6
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

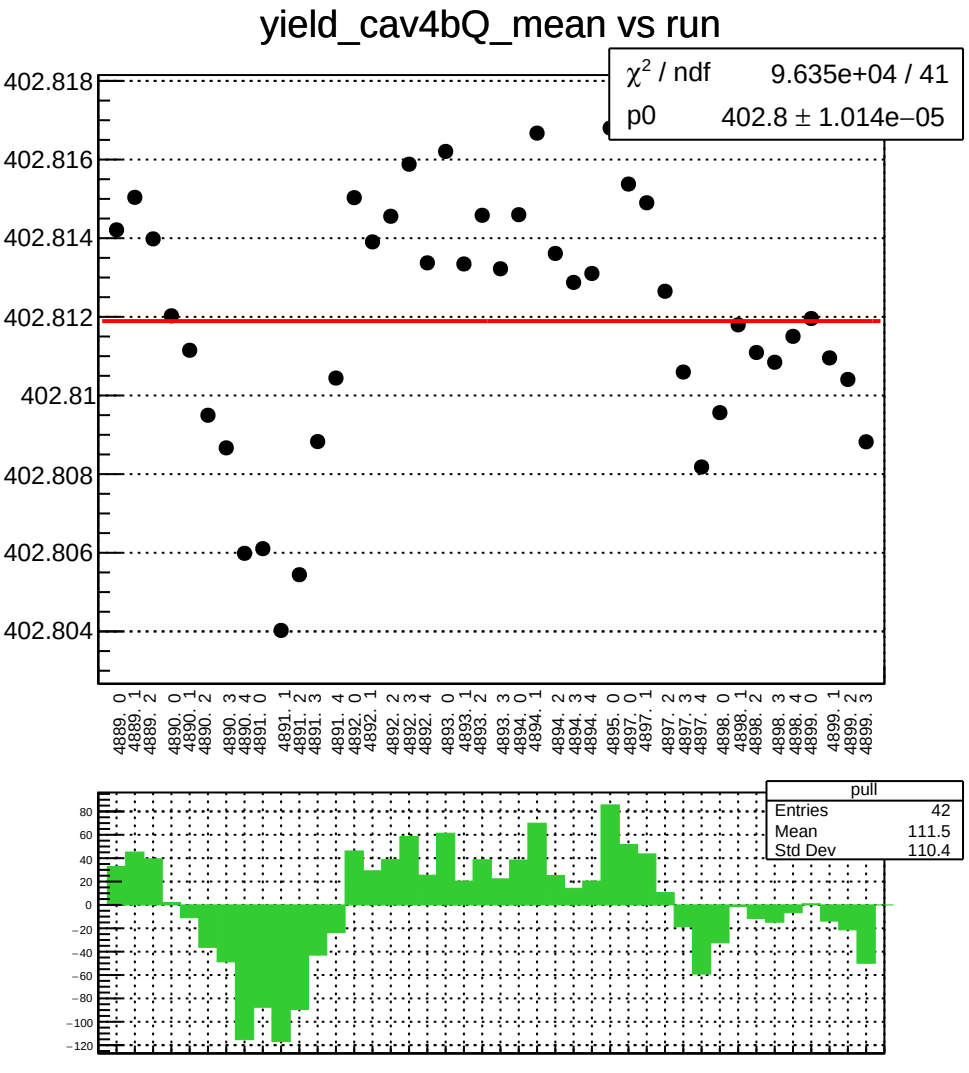

pull1D
Entries 42
Mean 4.803
Std Dev 2.052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

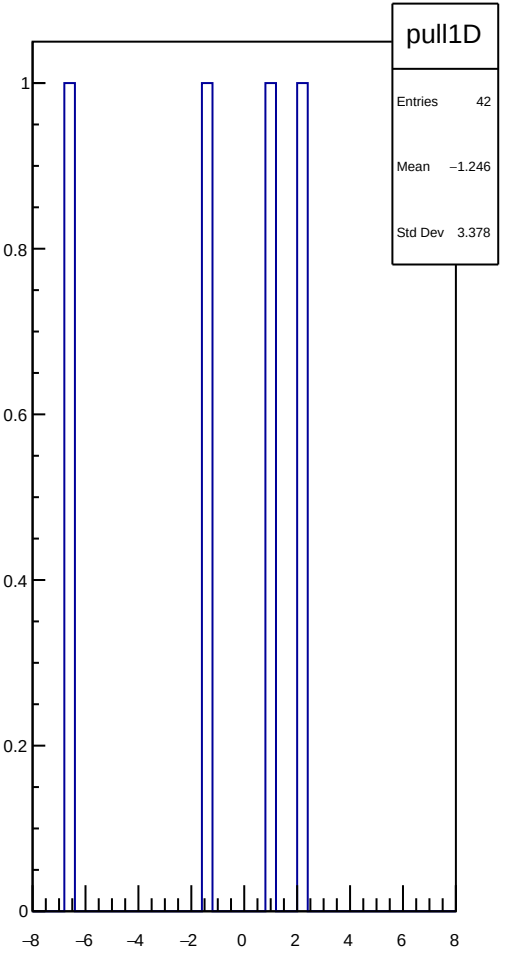

yield_bcm_dg_us_rms vs run
χ² / ndf 6643 / 41
p0 0.2471 ± 0.0002711
0.3
0.28
0.26
0.24
0.22
0.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

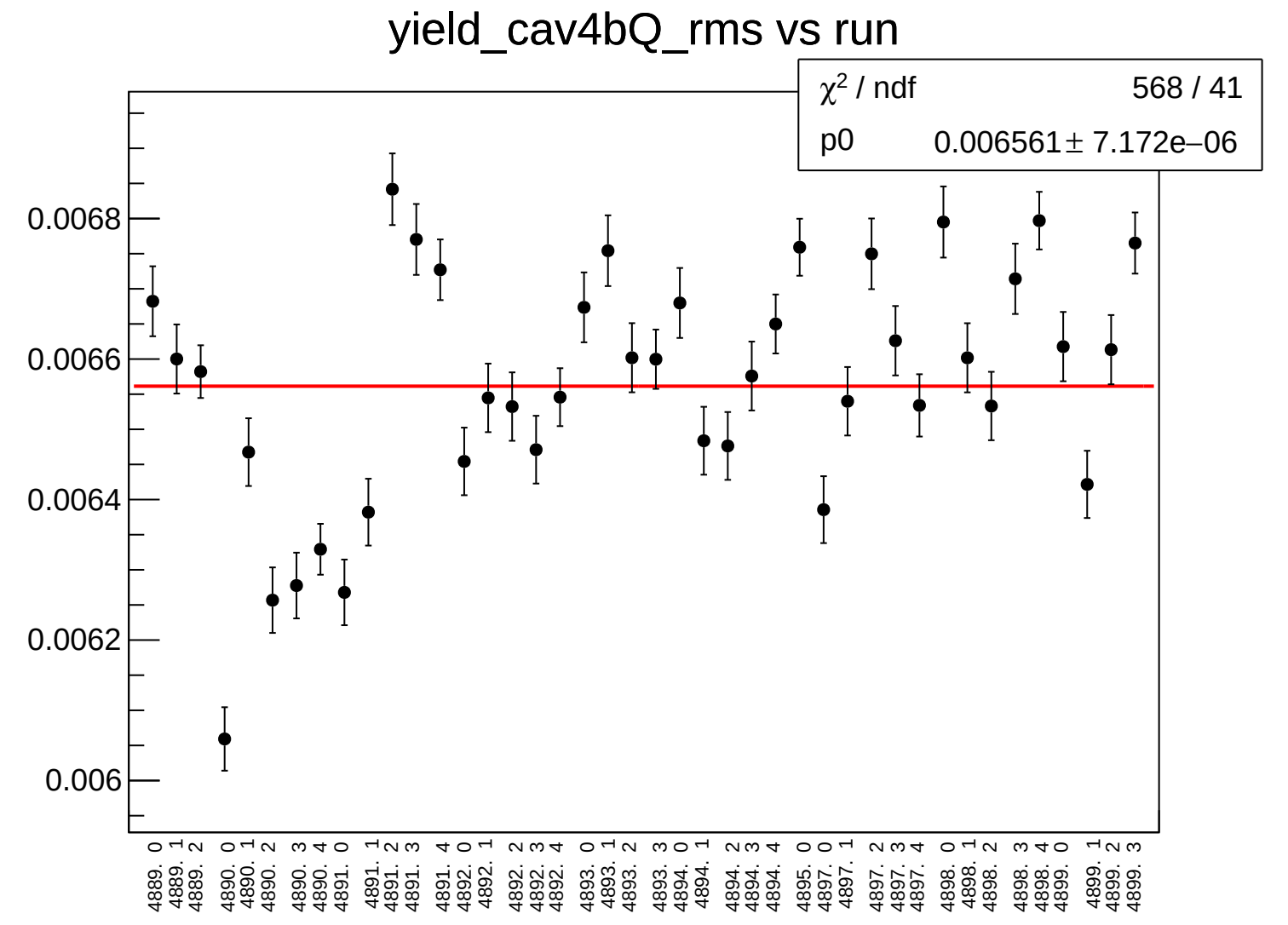

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.072e+05 / 41
p0 84.7 ± 0.0003705
84.9
84.8
84.7
84.6
84.5
84.4
84.3
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −350
Std Dev 374.6
50
0
−50
−100
−150

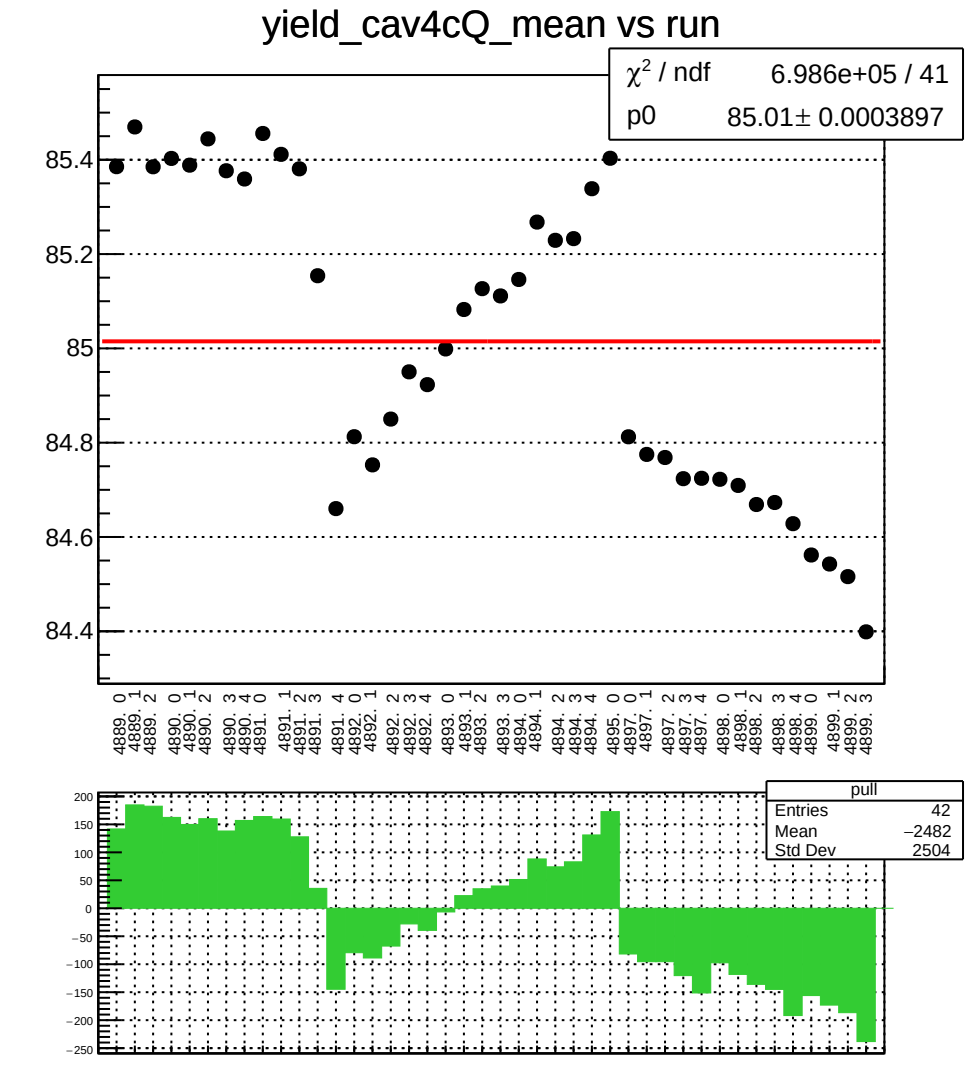

pull1D
Entries 42
Mean 5.481
Std Dev 1.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

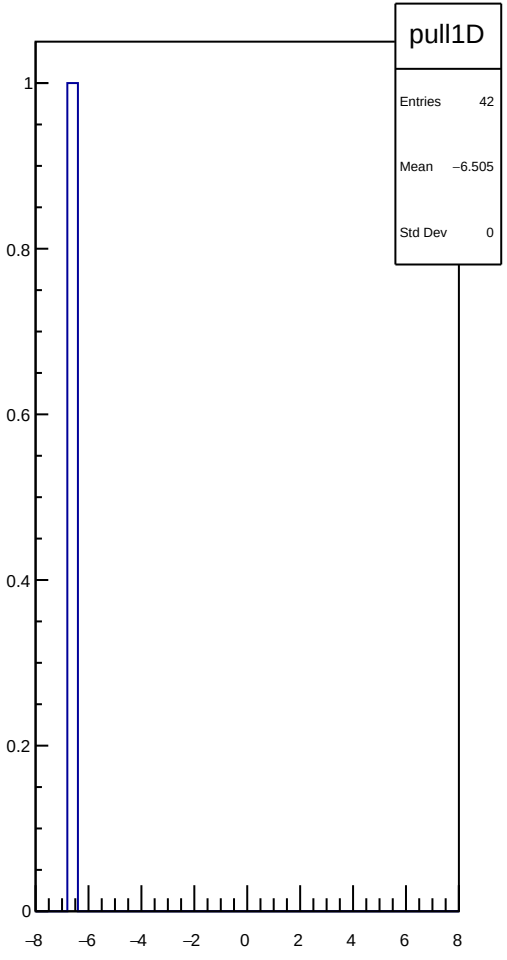

yield_bcm_dg_ds_rms vs run
χ² / ndf 6526 / 41
p0 0.2389 ± 0.000262
0.3
0.28
0.26
0.24
0.22
0.2
0.18
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

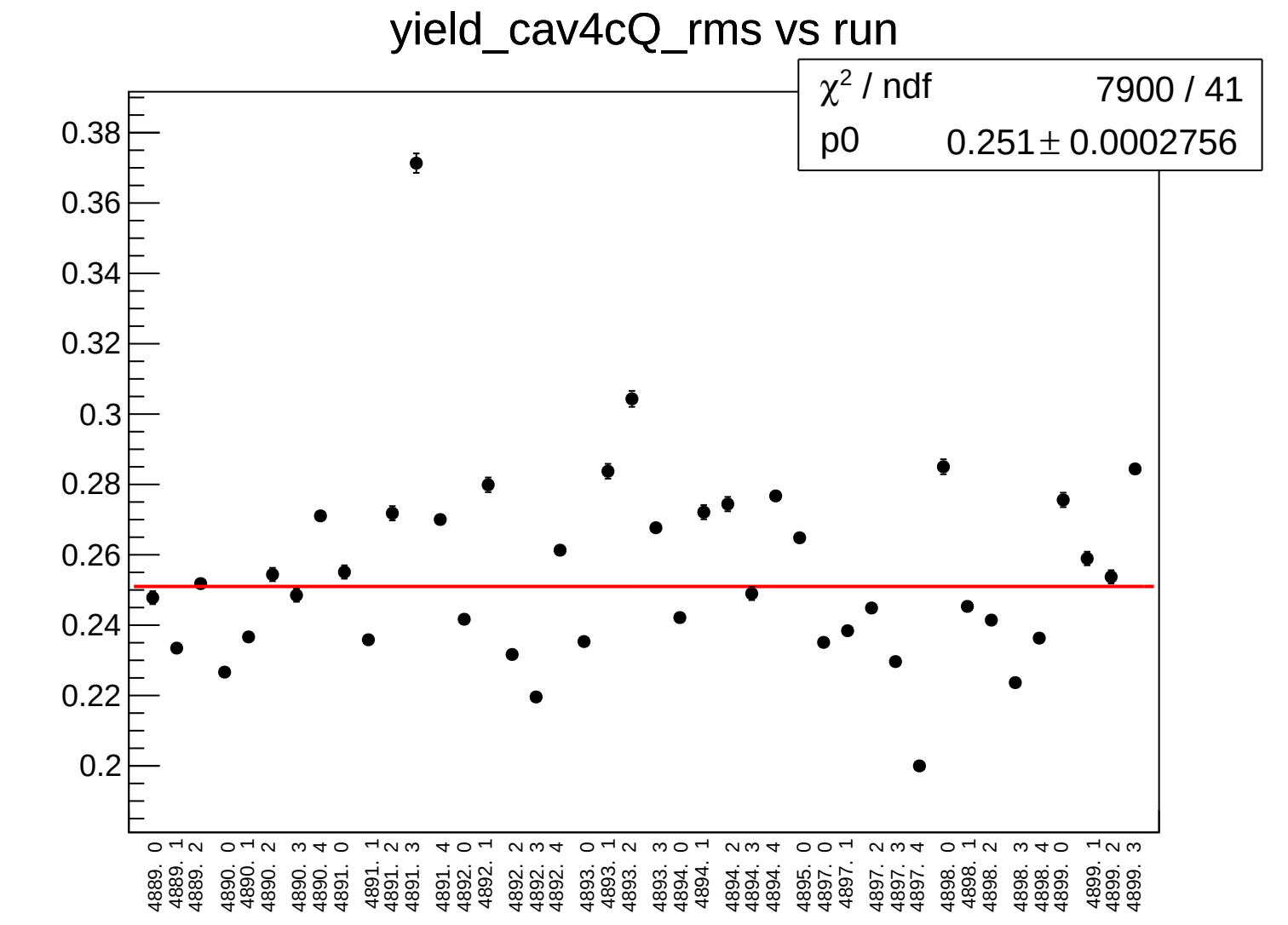

yield_cav4bQ_mean vs run
χ² / ndf 9.635e+04 / 41
p0 402.8 ± 1.014e−05
402.818
402.816
402.814
402.812
402.81
402.808
402.806
402.804
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 111.5
Std Dev 110.4
80
60
40
20
0
−20
−40
−60
−80
−100
−120

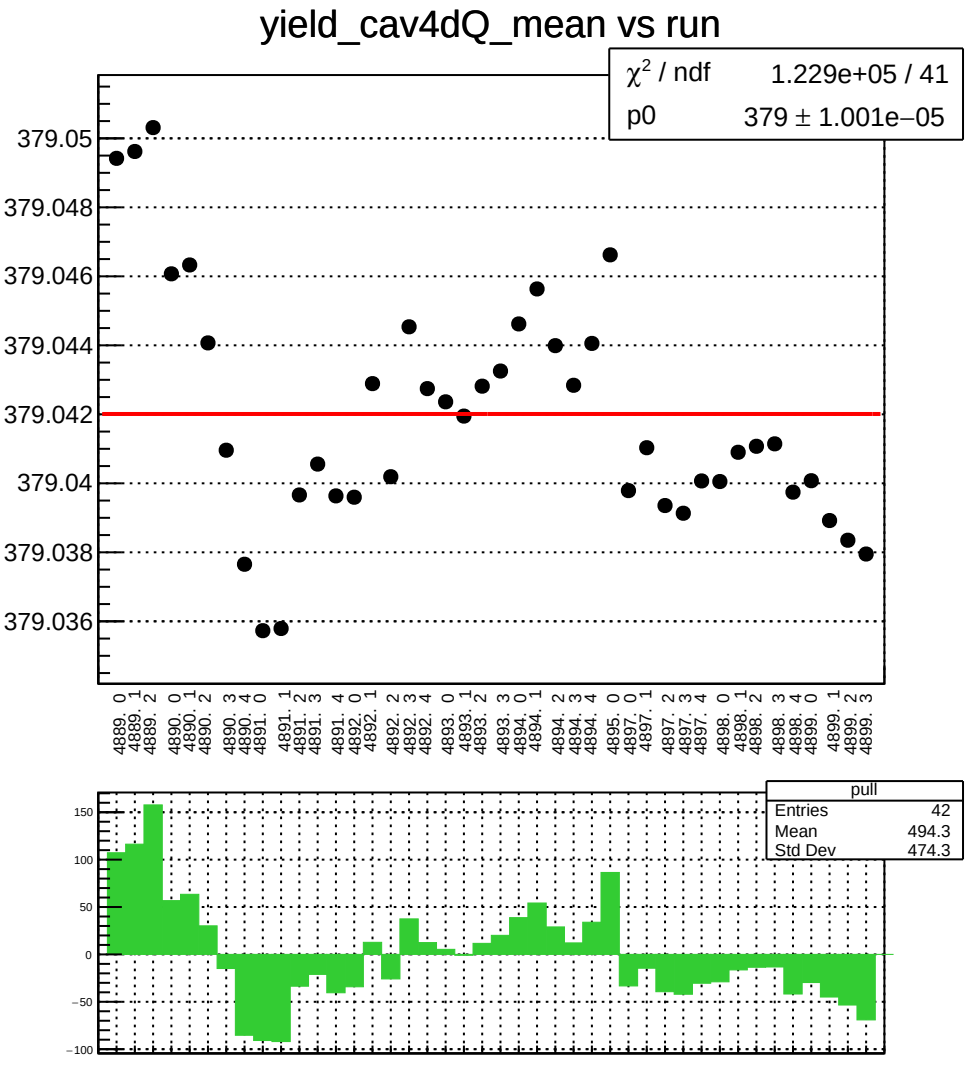

pull1D
Entries 42
Mean −1.246
Std Dev 3.378
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

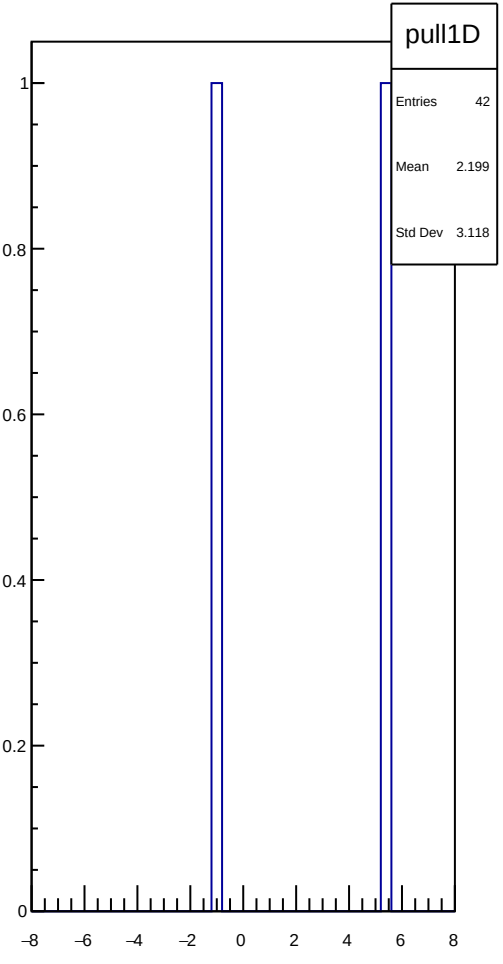

yield_cav4bQ_rms vs run
χ² / ndf 568 / 41
p0 0.006561 ± 7.172e−06
0.0068
0.0066
0.0064
0.0062
0.006
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

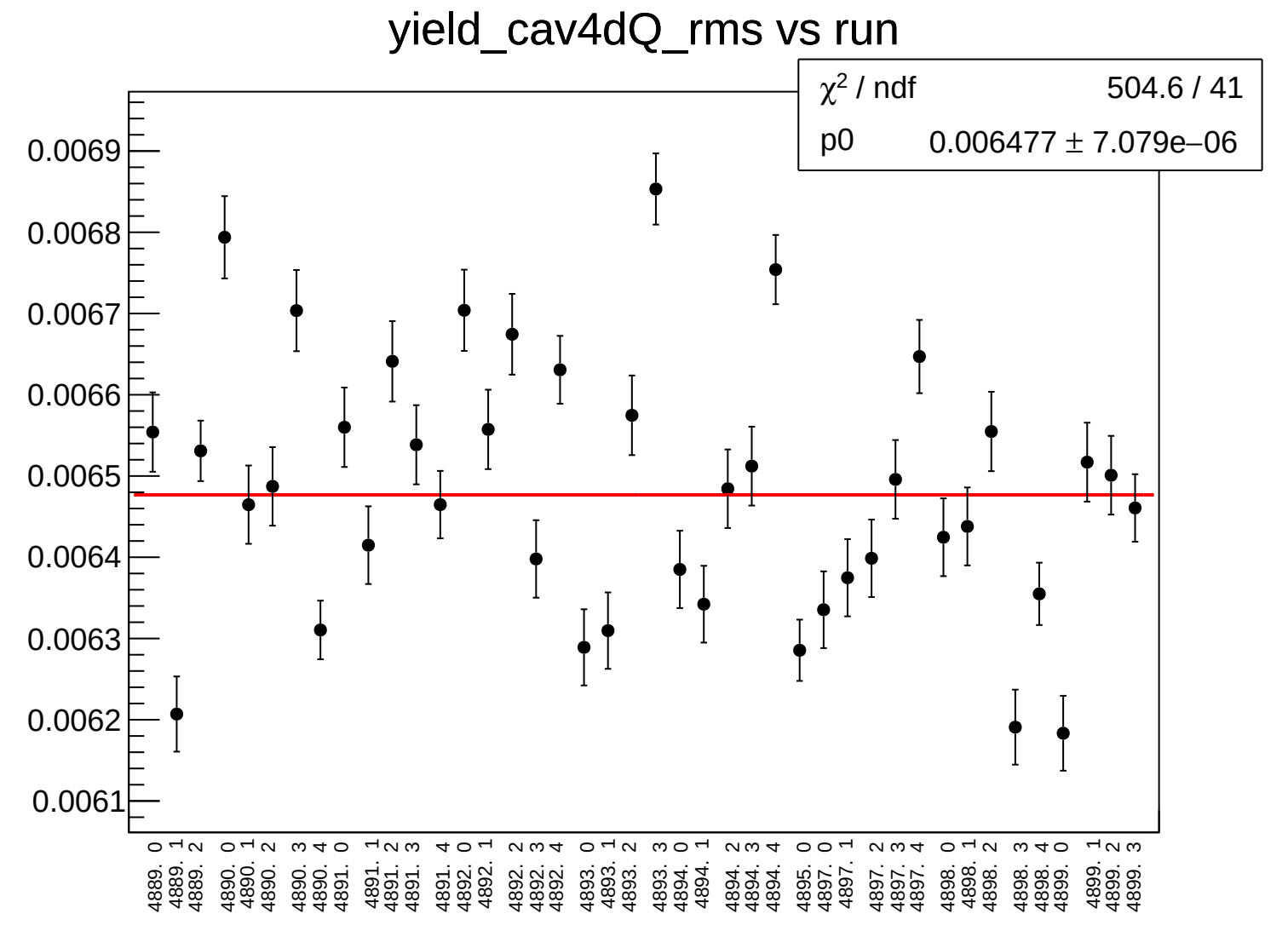

yield_cav4cQ_mean vs run
χ² / ndf 6.986e+05 / 41
p0 85.01± 0.0003897
85.4
85.2
85
84.8
84.6
84.4
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −2482
Std Dev 2504
200
150
100
50
0
−50
−100
−150
−200
−250

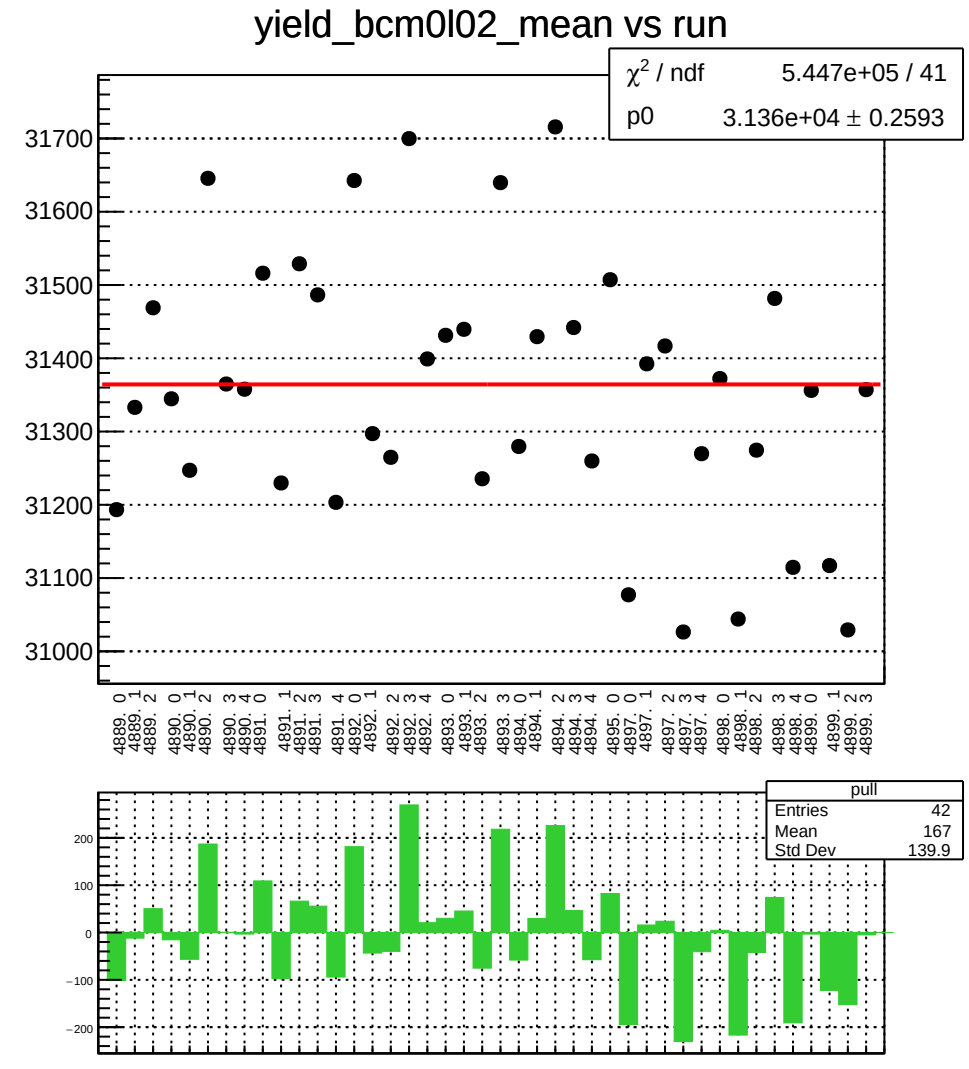

pull1D
Entries 42
Mean −6.505
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

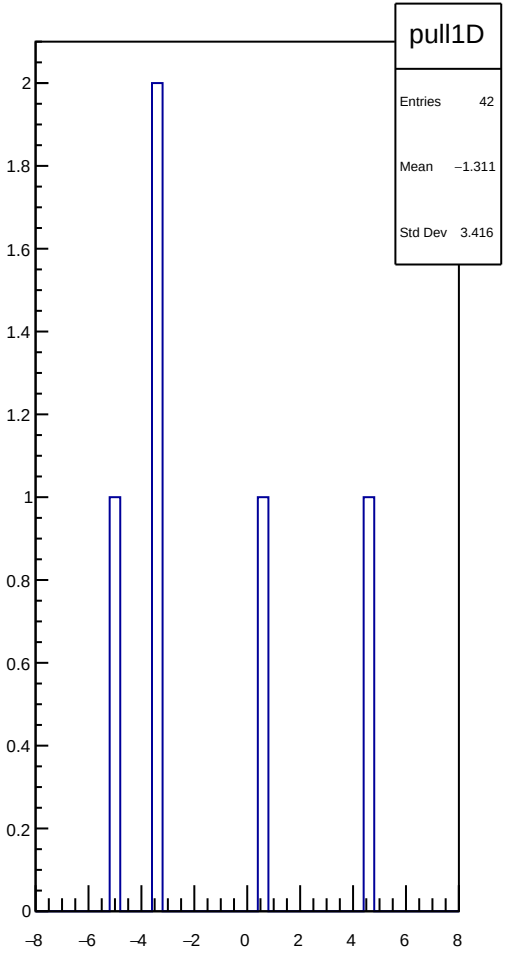

yield_cav4cQ_rms vs run
χ^2 / ndf 7900 / 41
p0 0.251 ± 0.0002756
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

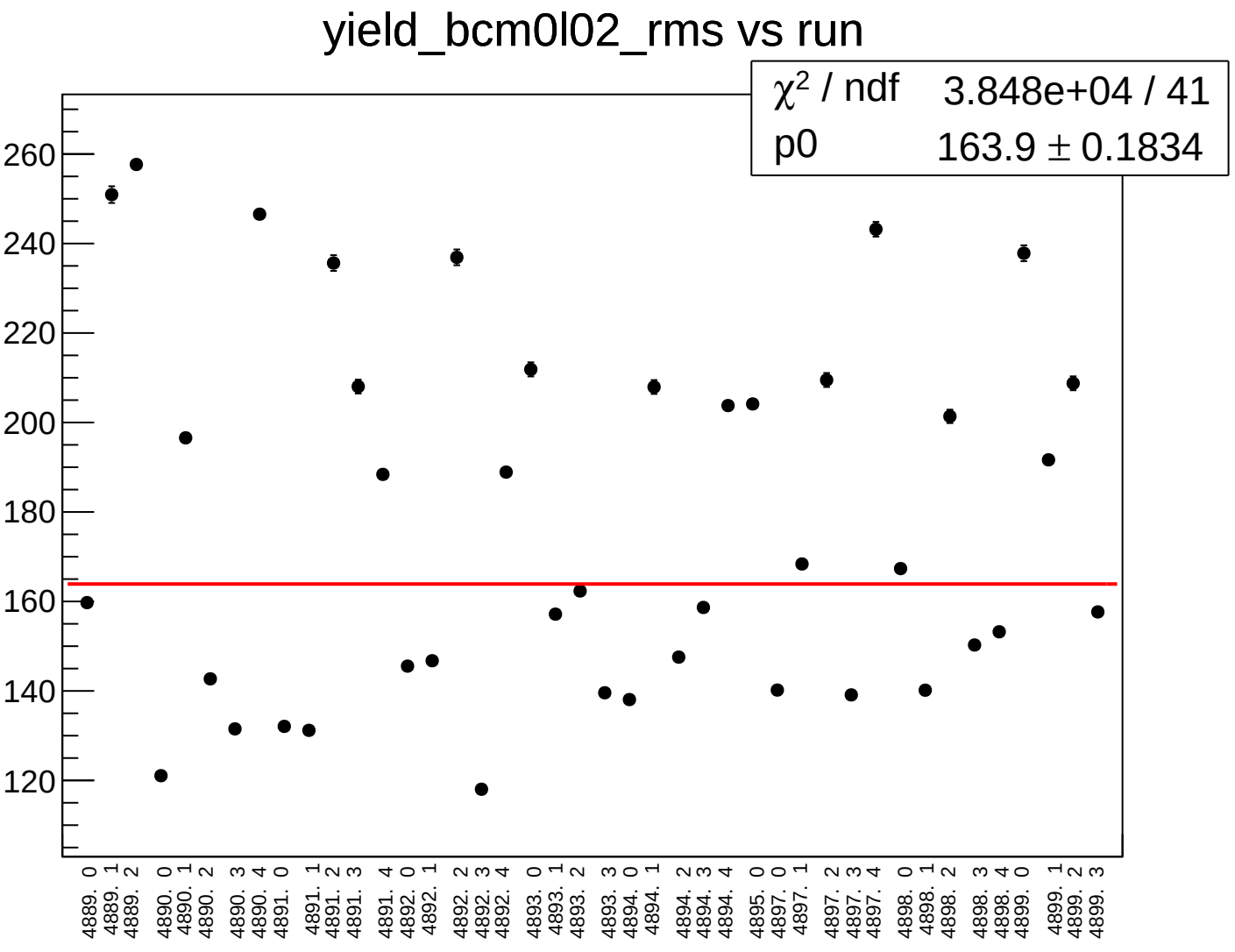

yield_cav4dQ_mean vs run
χ² / ndf 1.229e+05 / 41
p0 379 ± 1.001e−05
379.05
379.048
379.046
379.044
379.042
379.04
379.038
379.036
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 494.3
Std Dev 474.3
150
100
50
0
−50
−100

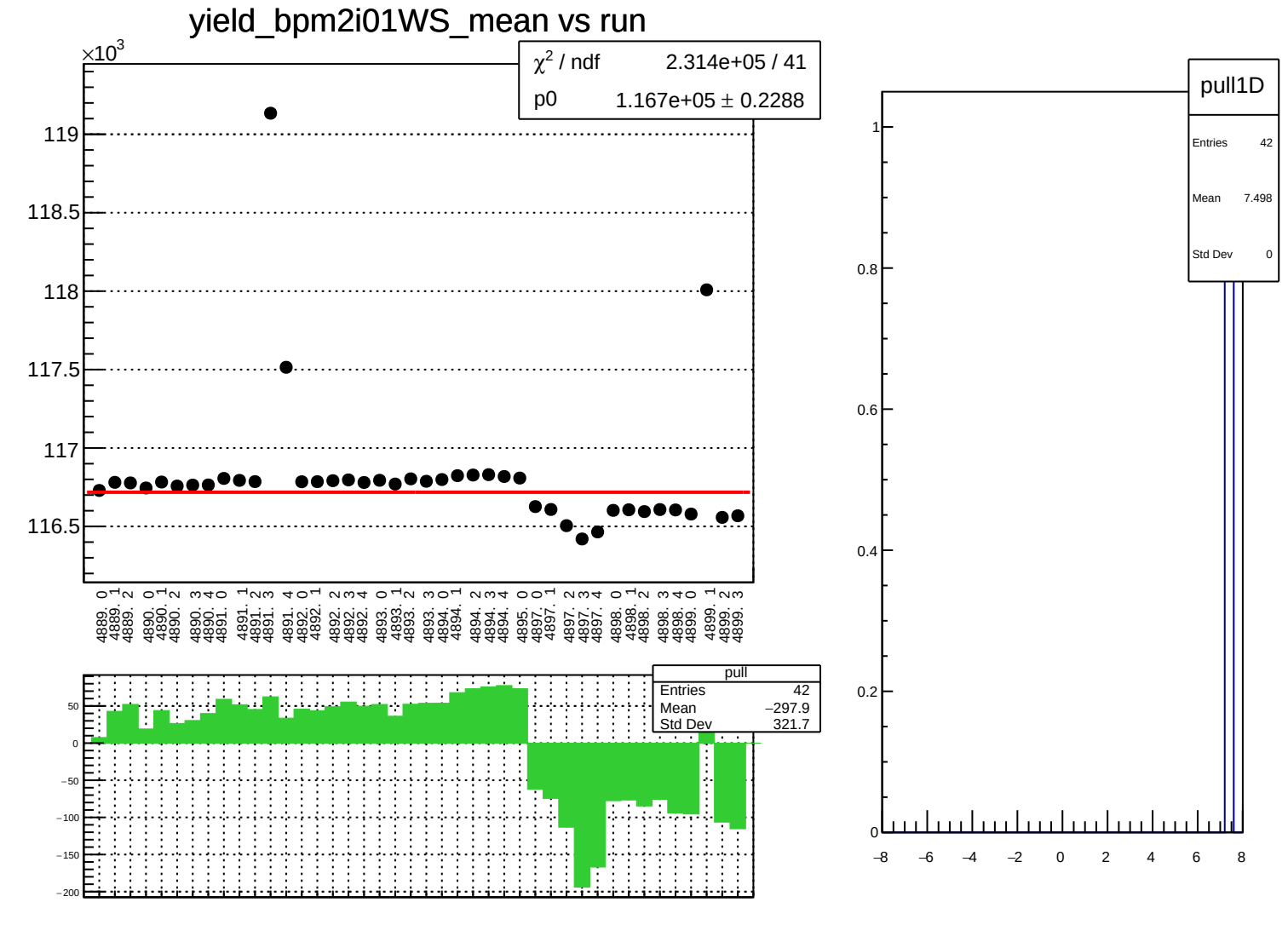

pull1D
Entries 42
Mean 2.199
Std Dev 3.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

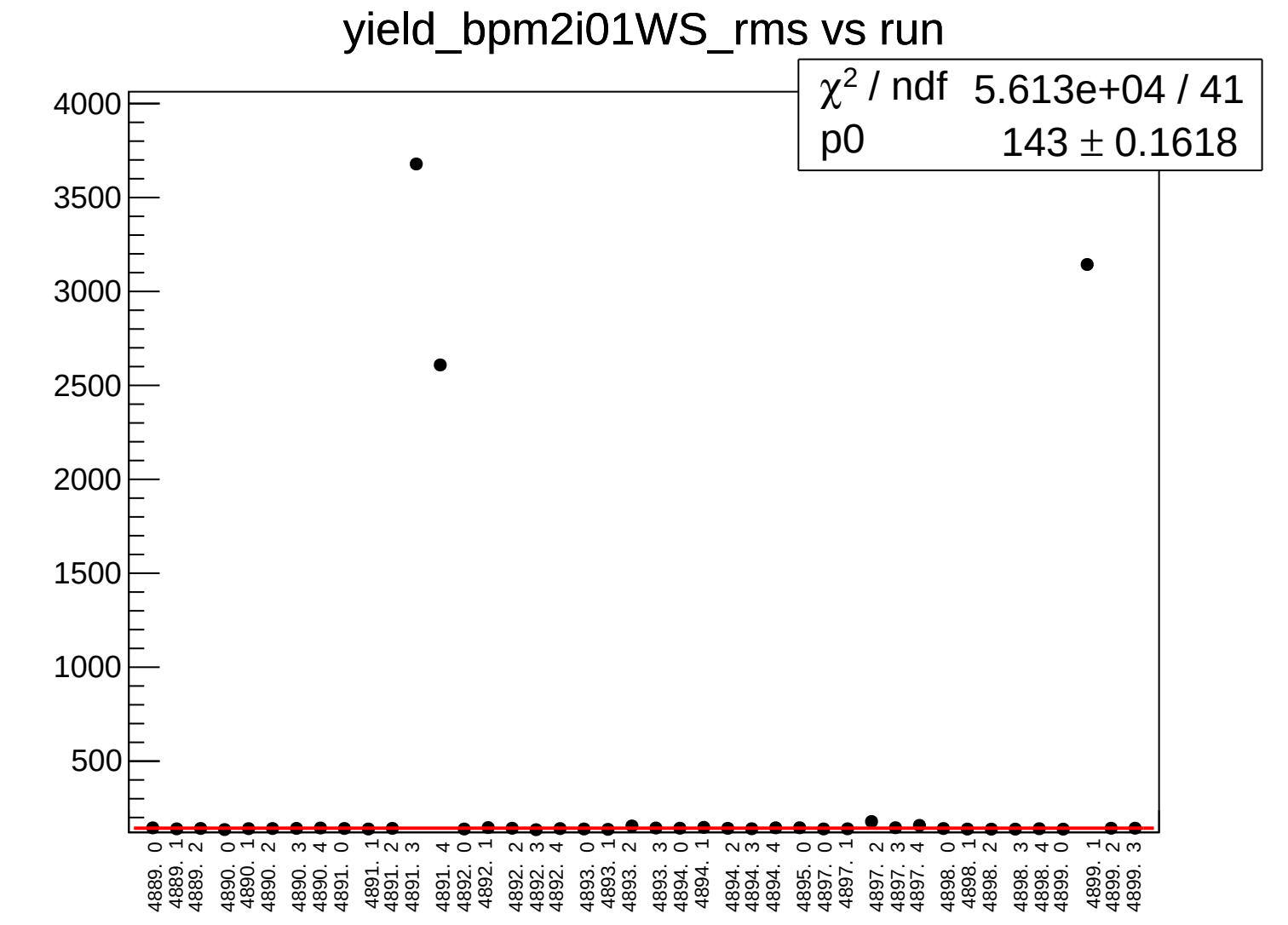

yield_cav4dQ_rms vs run
χ² / ndf 504.6 / 41
p0 0.006477 ± 7.079e−06
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
0.0063
0.0062
0.0061
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

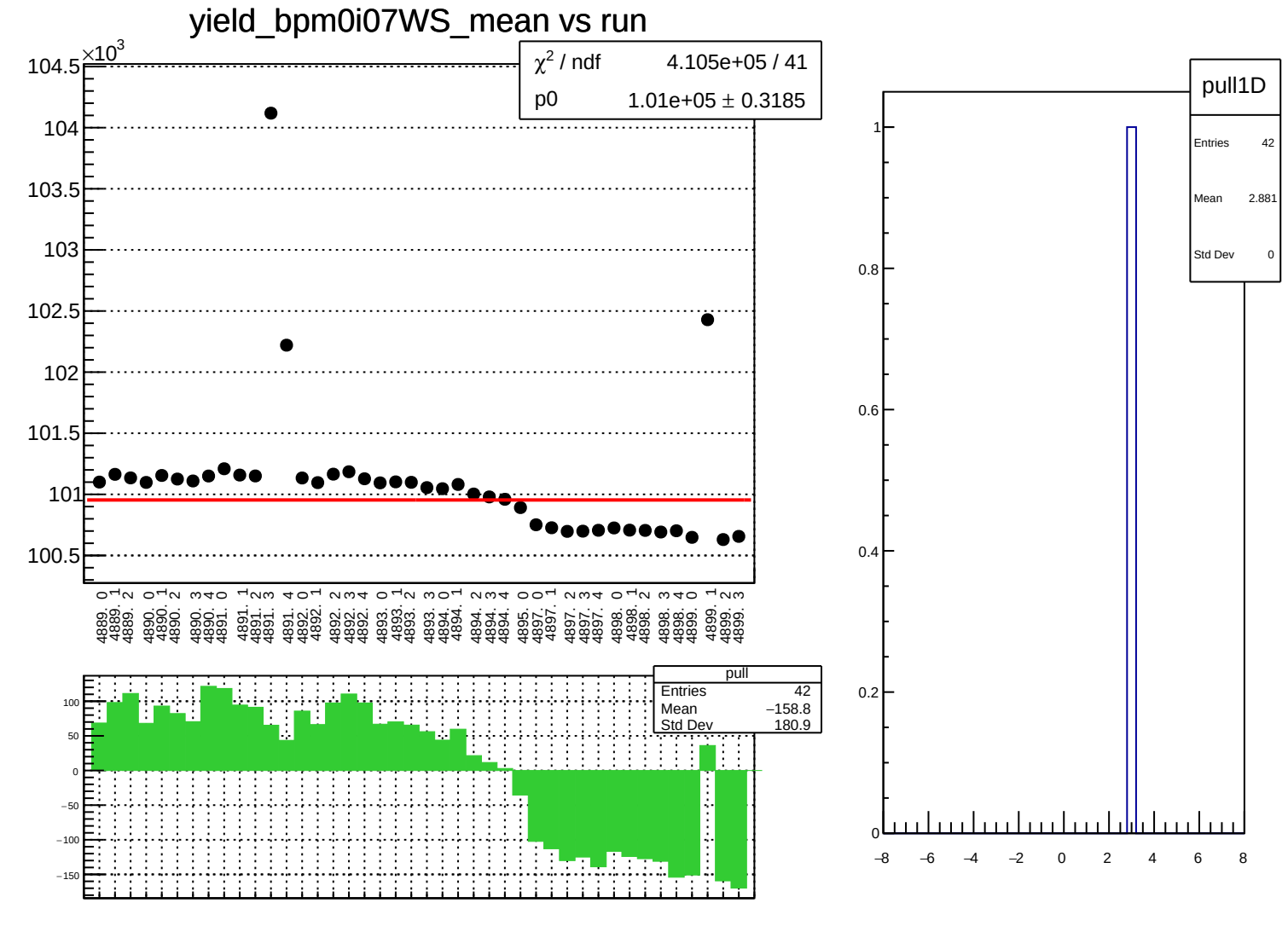

yield_bcm0l02_mean vs run
χ² / ndf 5.447e+05 / 41
p0 3.136e+04 ± 0.2593
31700
31600
31500
31400
31300
31200
31100
31000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 167
Std Dev 139.9
200
100
0
−100
−200

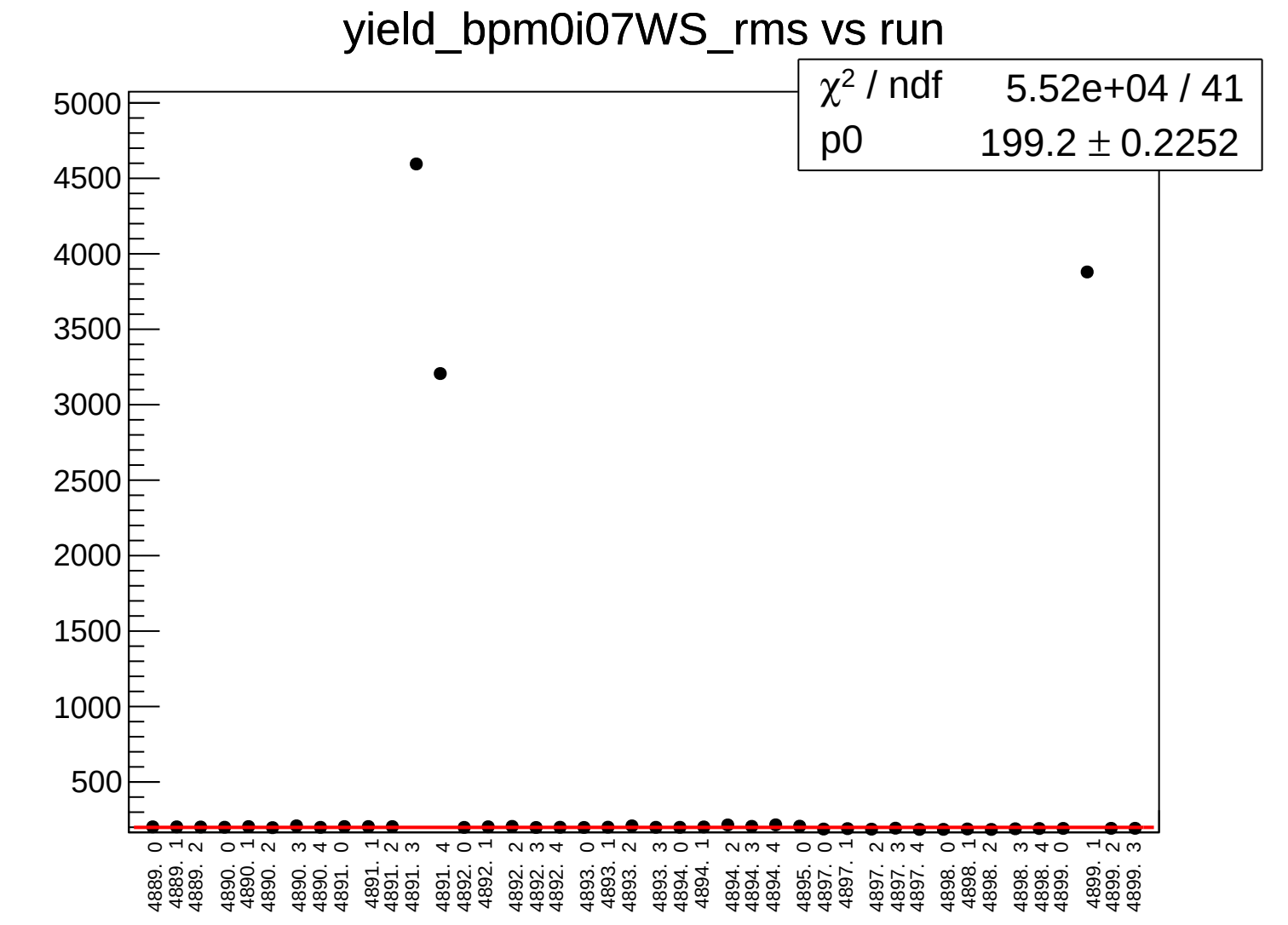

pull1D
Entries 42
Mean −1.311
Std Dev 3.416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

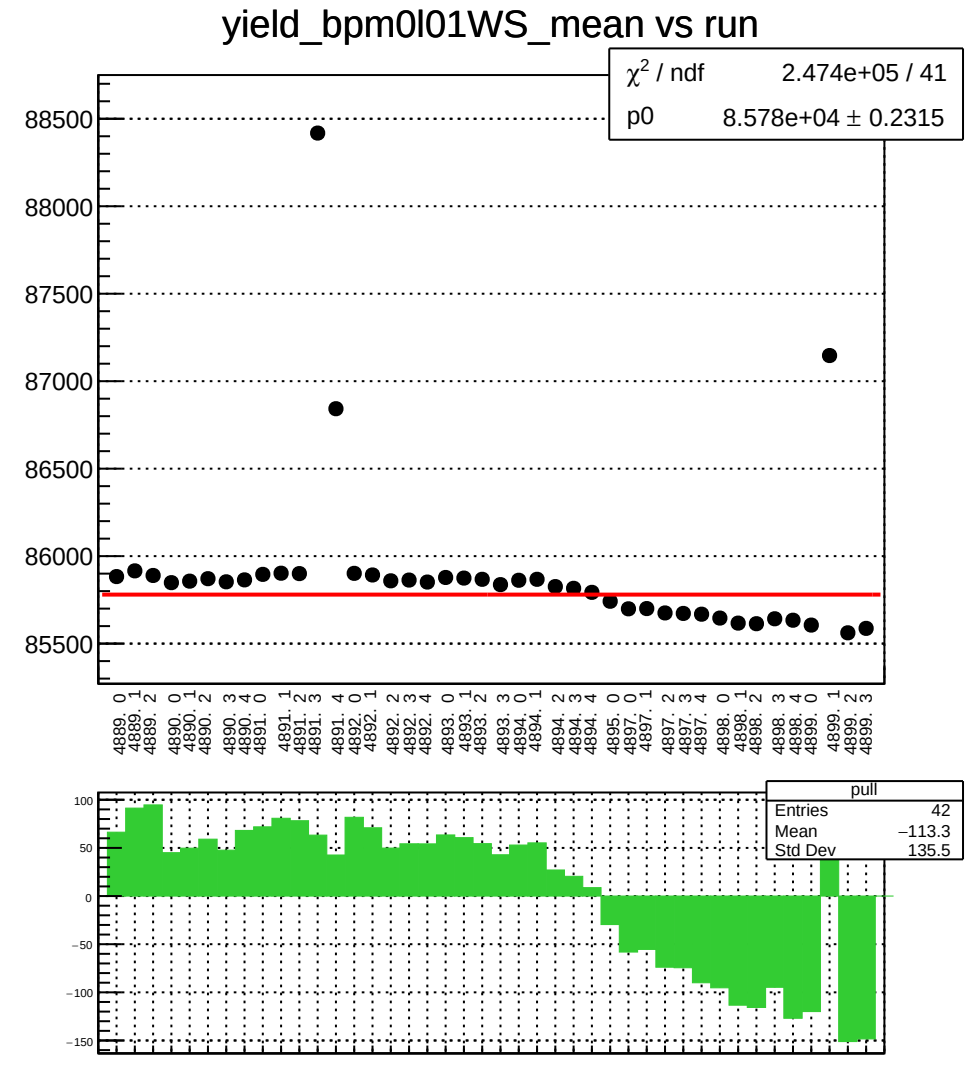

yield_bcm0l02_rms vs run
χ² / ndf 3.848e+04 / 41
p0 163.9 ± 0.1834
260
240
220
200
180
160
140
120
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

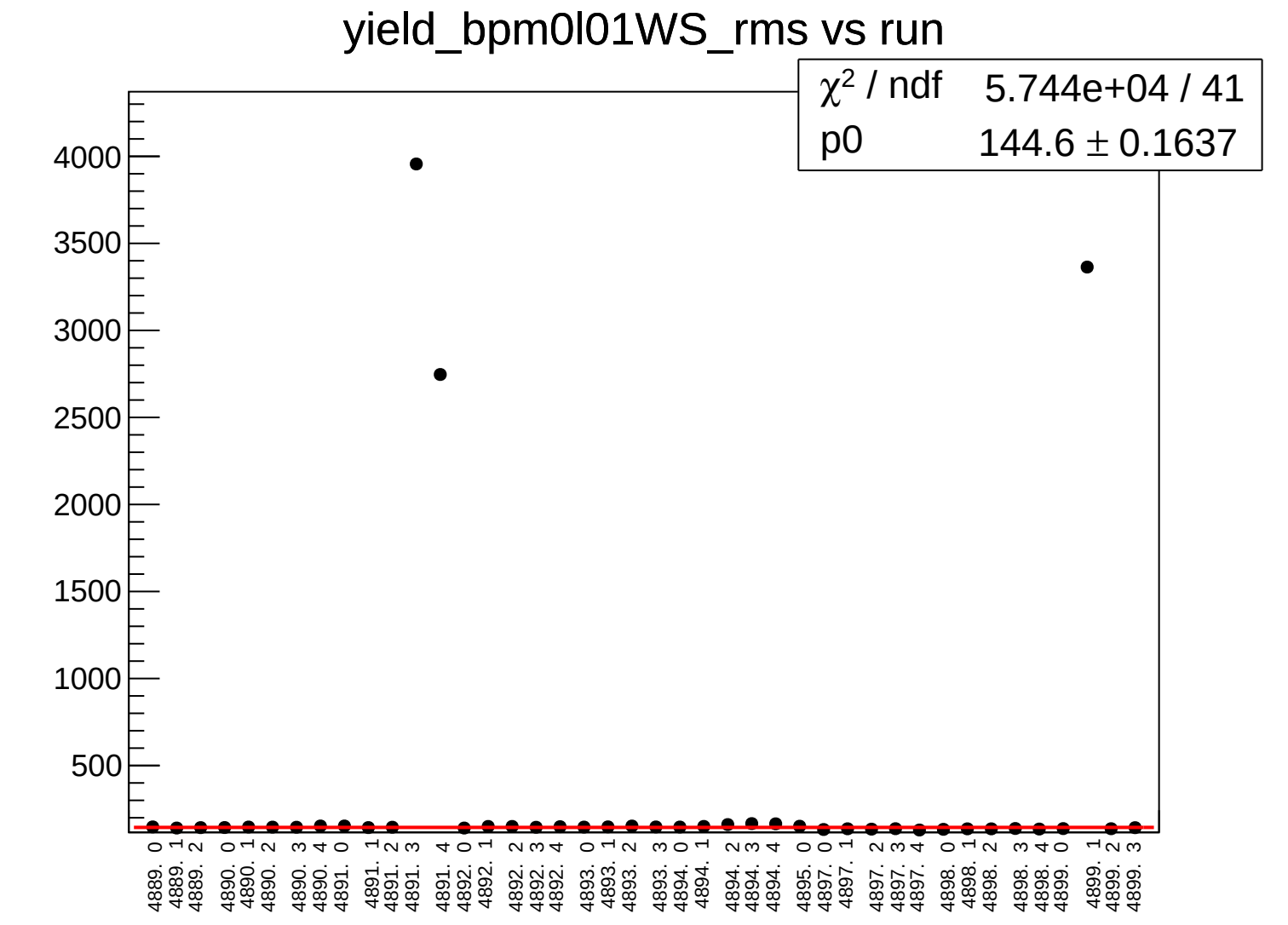

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.314e+05 / 41
p0 1.167e+05 ± 0.2288
119
118.5
118
117.5
117
116.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −297.9
Std Dev 321.7
50
0
−50
−100
−150
−200
pull1D
Entries 42
Mean 7.498
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

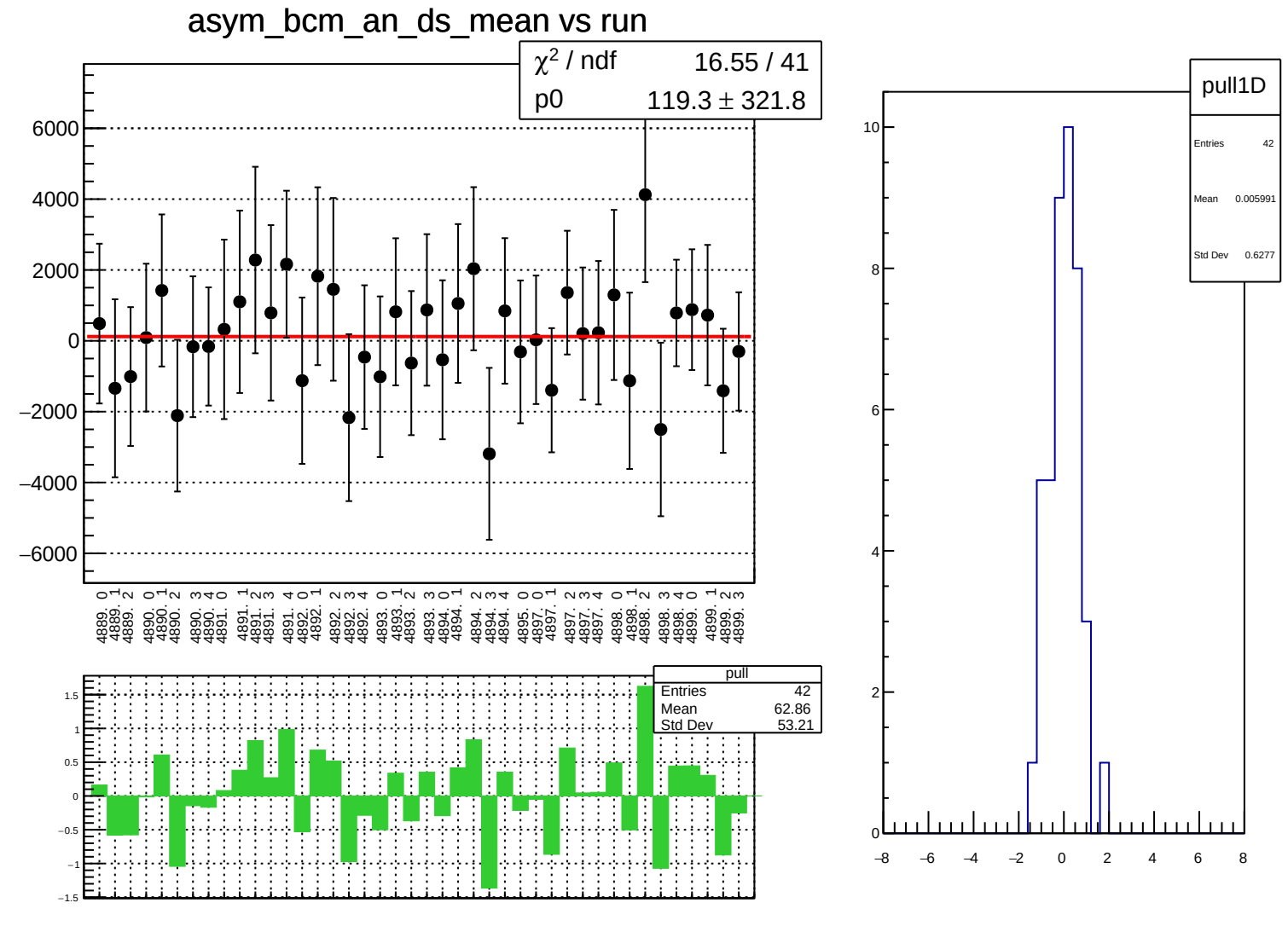

yield_bpm2i01WS_rms vs run
χ² / ndf 5.613e+04 / 41
p0 143 ± 0.1618
4000
3500
3000
2500
2000
1500
1000
500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

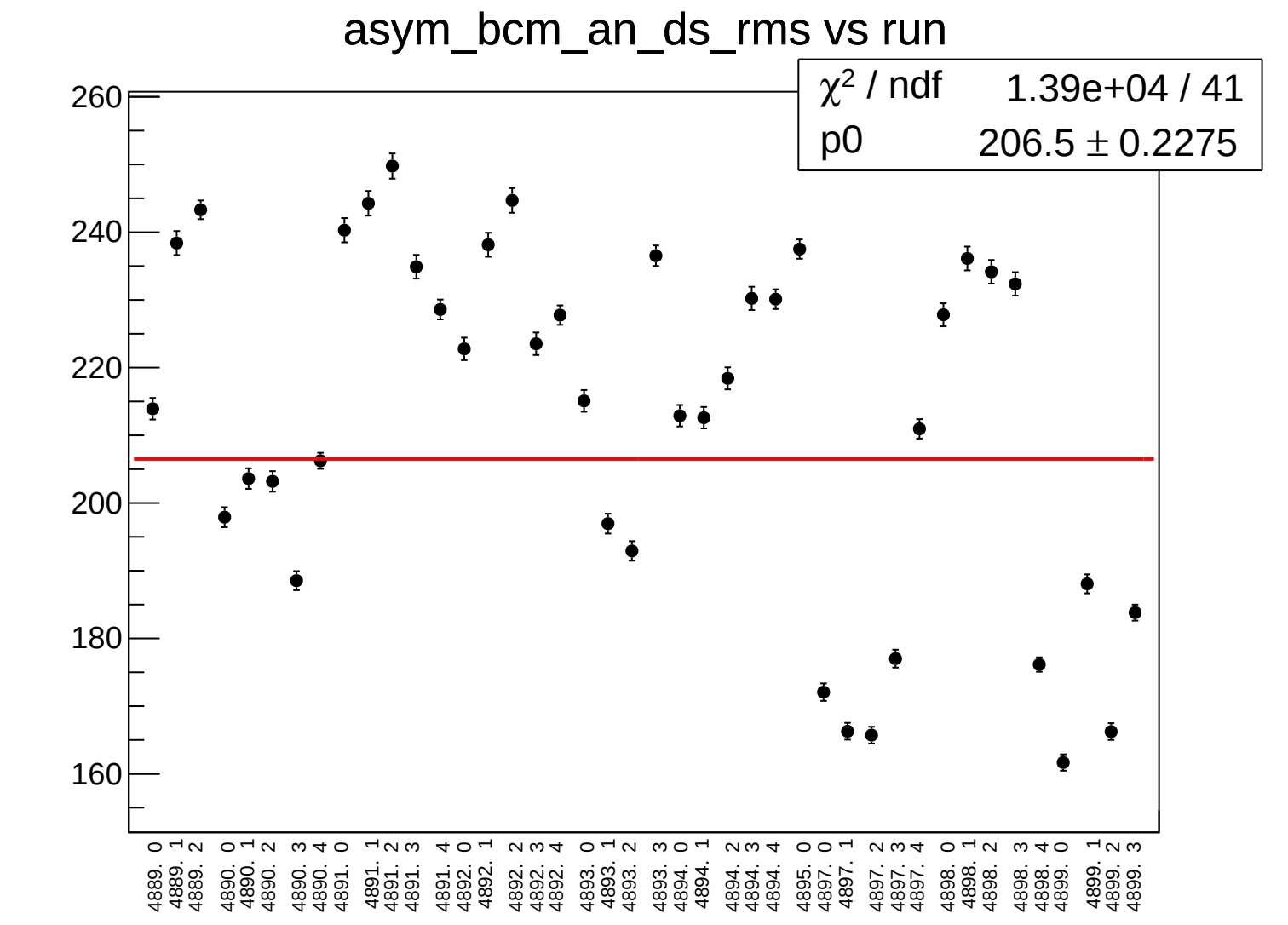

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 4.105e+05 / 41
p0 1.01e+05 ± 0.3185
104.5
104
103.5
103
102.5
102
101.5
101
100.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −158.8
Std Dev 180.9
100
50
0
−50
−100
−150
pull1D
Entries 42
Mean 2.881
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

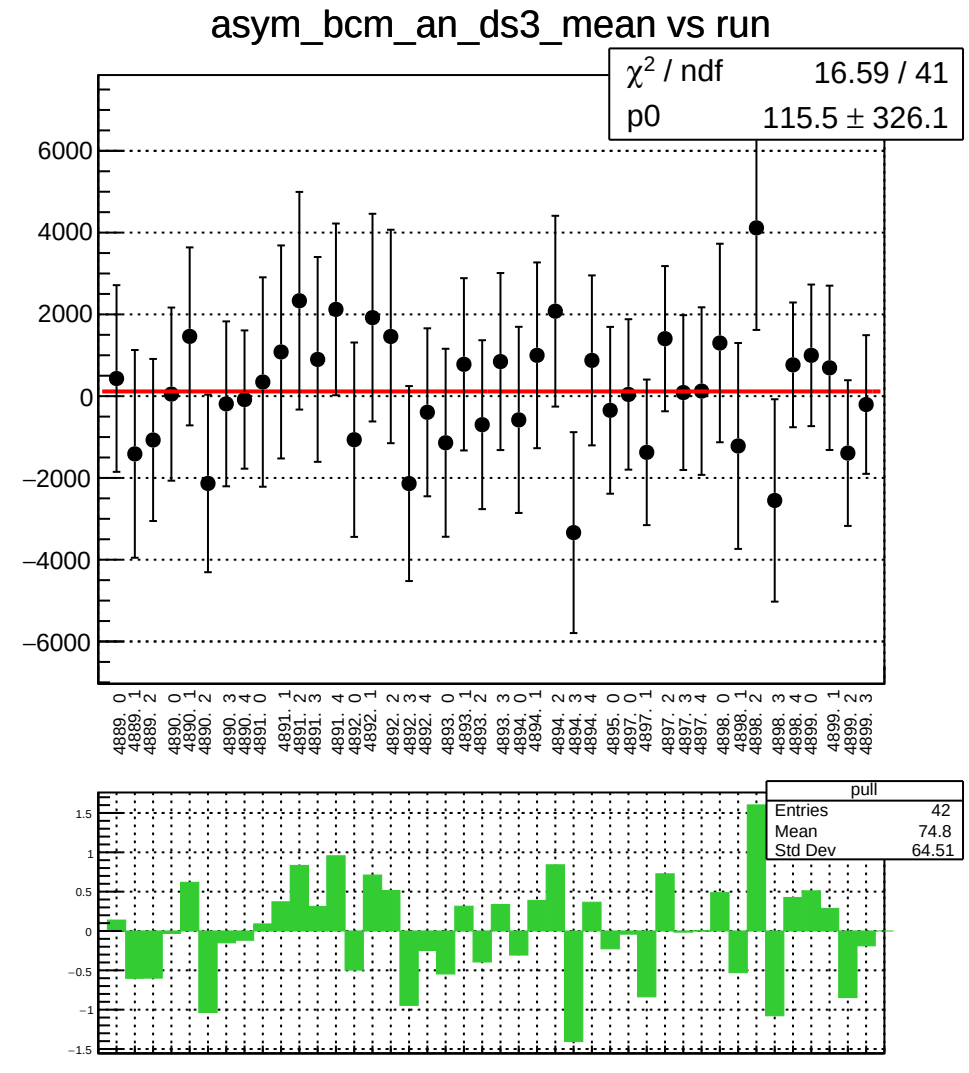

yield_bpm0i07WS_rms vs run
χ² / ndf 5.52e+04 / 41
p0 199.2 ± 0.2252
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

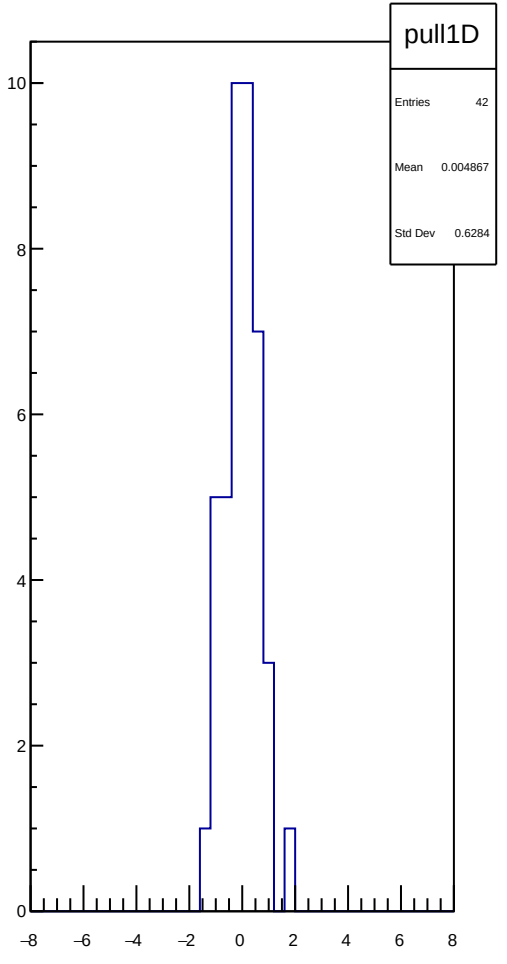

yield_bpm0l01WS_mean vs run
χ² / ndf 2.474e+05 / 41
p0 8.578e+04 ± 0.2315
88500
88000
87500
87000
86500
86000
85500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −113.3
Std Dev 135.5
100
50
0
−50
−100
−150
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

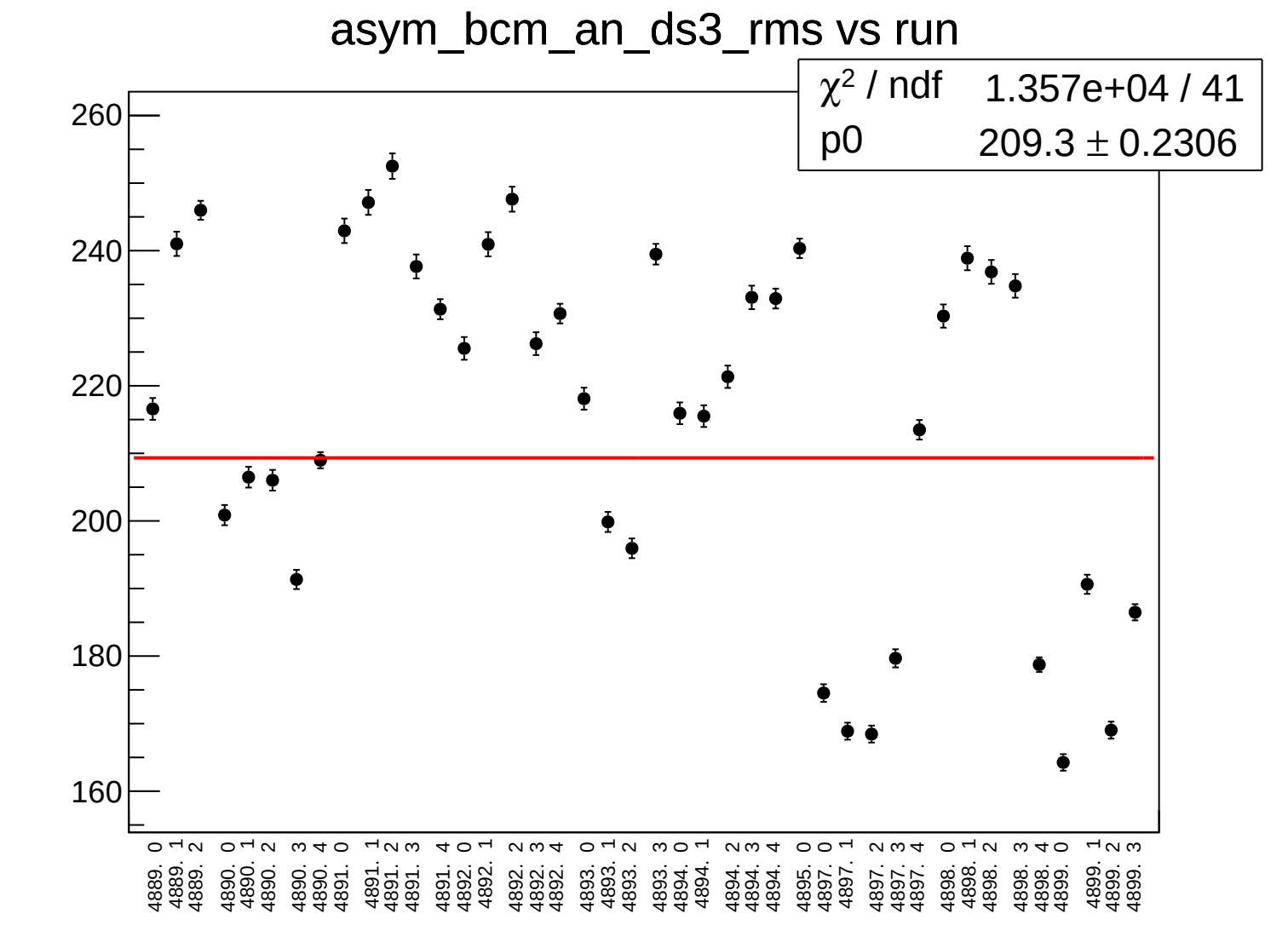

yield_bpm0l01WS_rms vs run
χ² / ndf 5.744e+04 / 41
p0 144.6 ± 0.1637
4000
3500
3000
2500
2000
1500
1000
500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

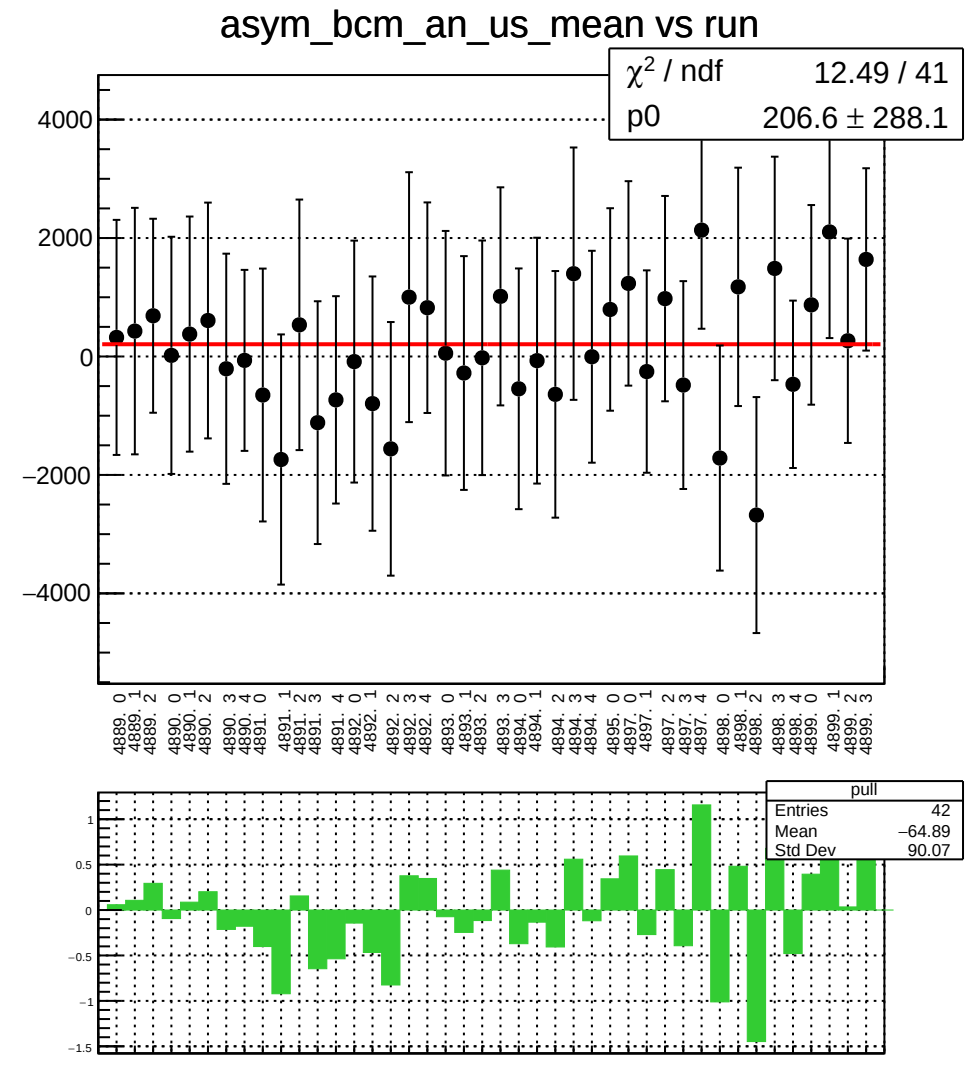

asym_bcm_an_ds_mean vs run
χ² / ndf 16.55 / 41
p0 119.3 ± 321.8
6000
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 62.86
Std Dev 53.21
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.005991
Std Dev 0.6277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

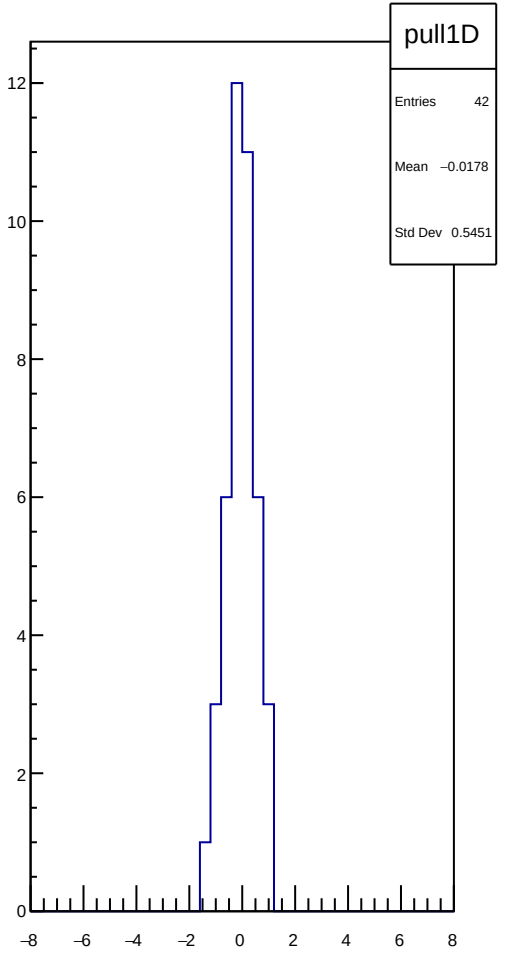

asym_bcm_an_ds_rms vs run
χ² / ndf 1.39e+04 / 41
p0 206.5 ± 0.2275
260
240
220
200
180
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

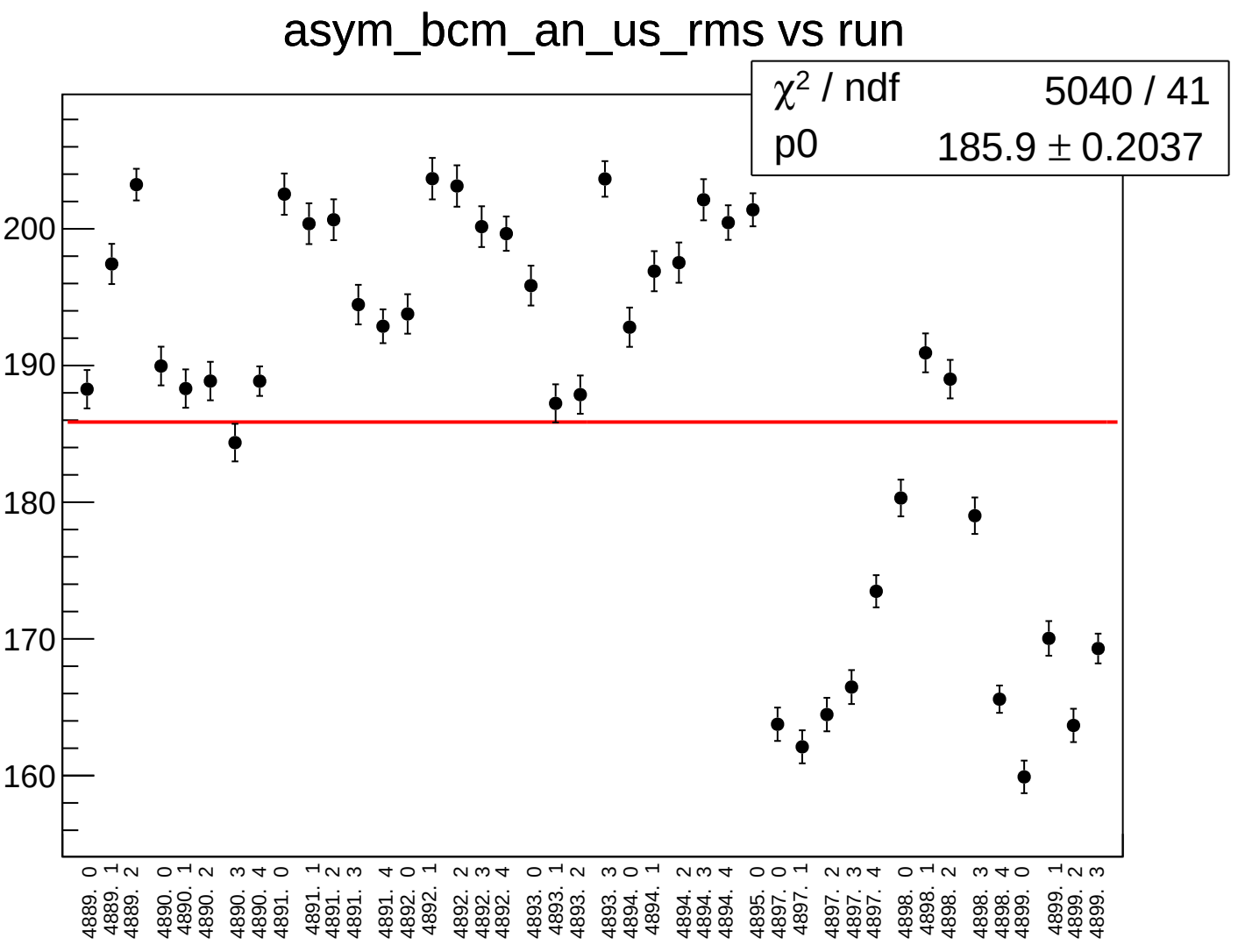

asym_bcm_an_ds3_mean vs run
χ² / ndf 16.59 / 41
p0 115.5 ± 326.1
6000
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 74.8
Std Dev 64.51
1.5
1
0.5
0
−0.5
−1
−1.5

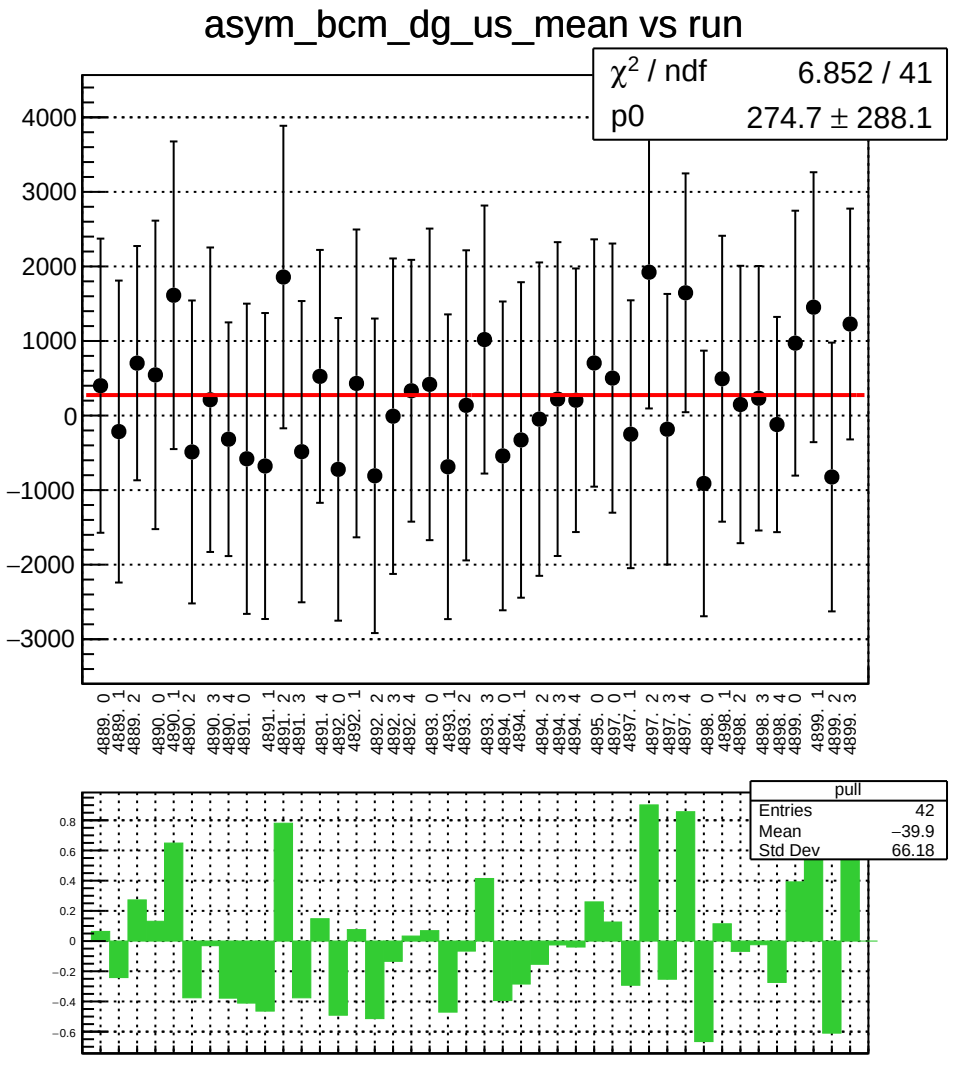

pull1D
Entries 42
Mean 0.004867
Std Dev 0.6284
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

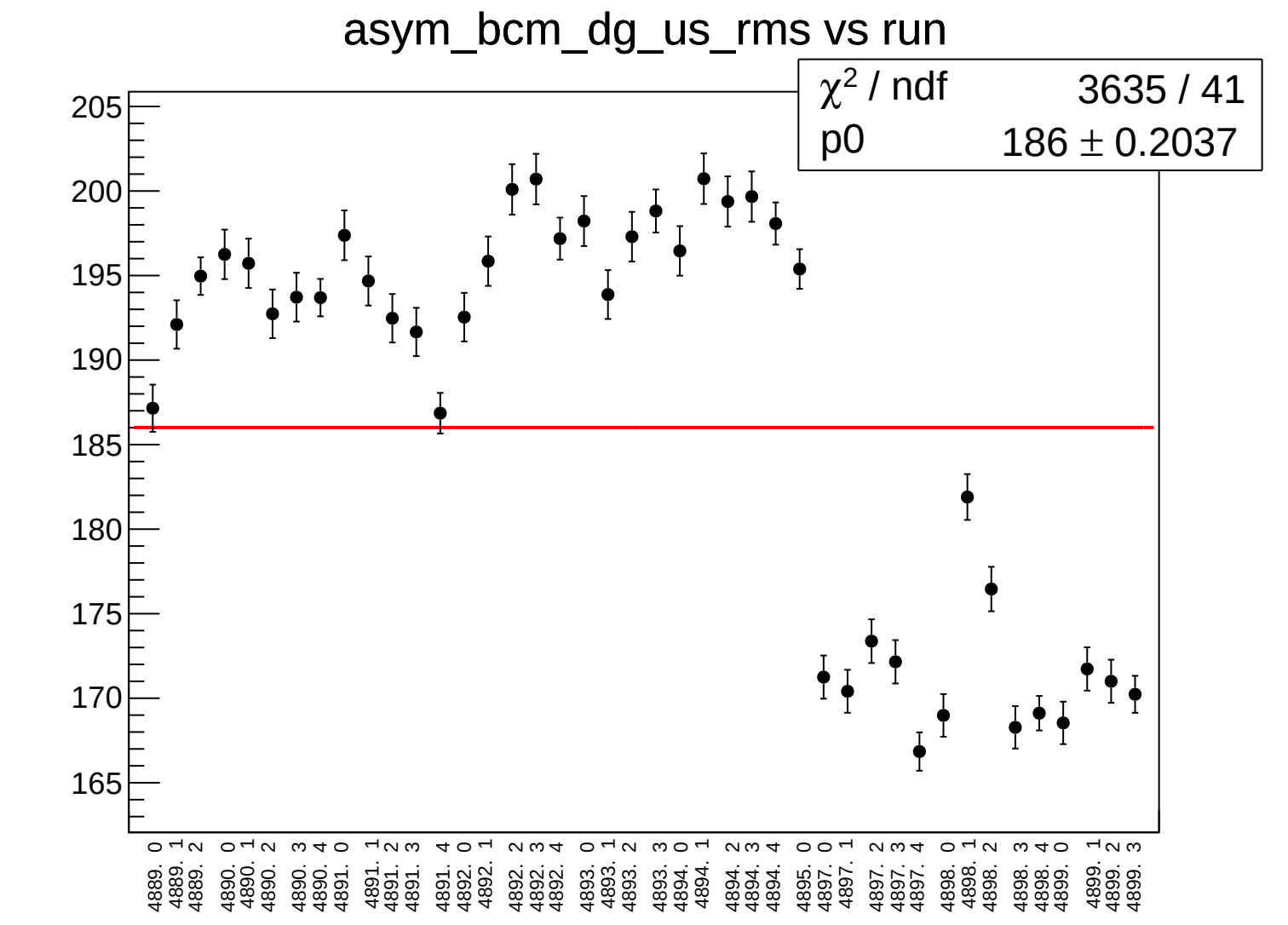

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.357e+04 / 41
p0 209.3 ± 0.2306
260
240
220
200
180
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

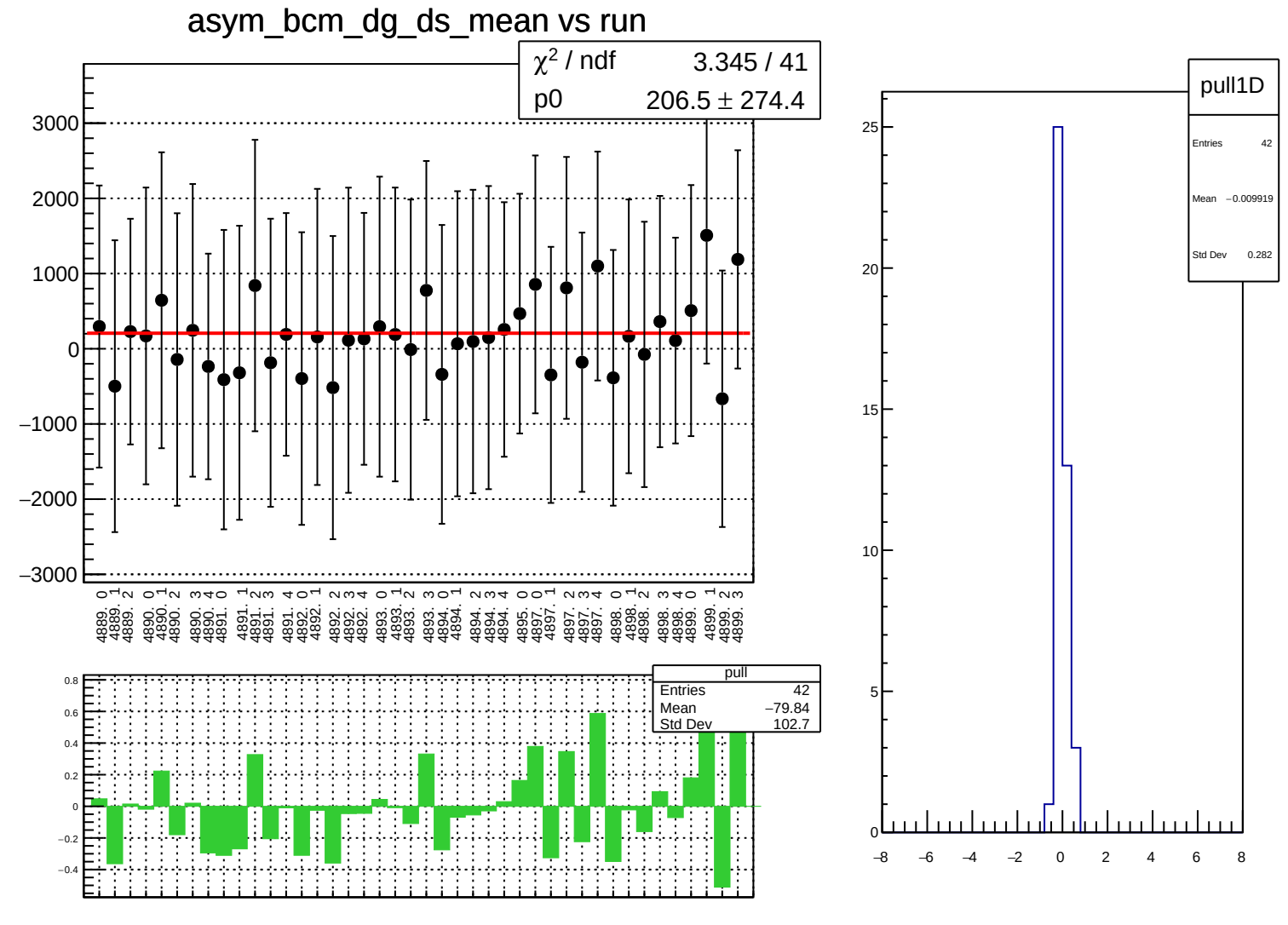

asym_bcm_an_us_mean vs run
χ² / ndf 12.49 / 41
p0 206.6 ± 288.1
4000
2000
0
−2000
−4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −64.89
Std Dev 90.07
1
0.5
0
−0.5
−1
−1.5

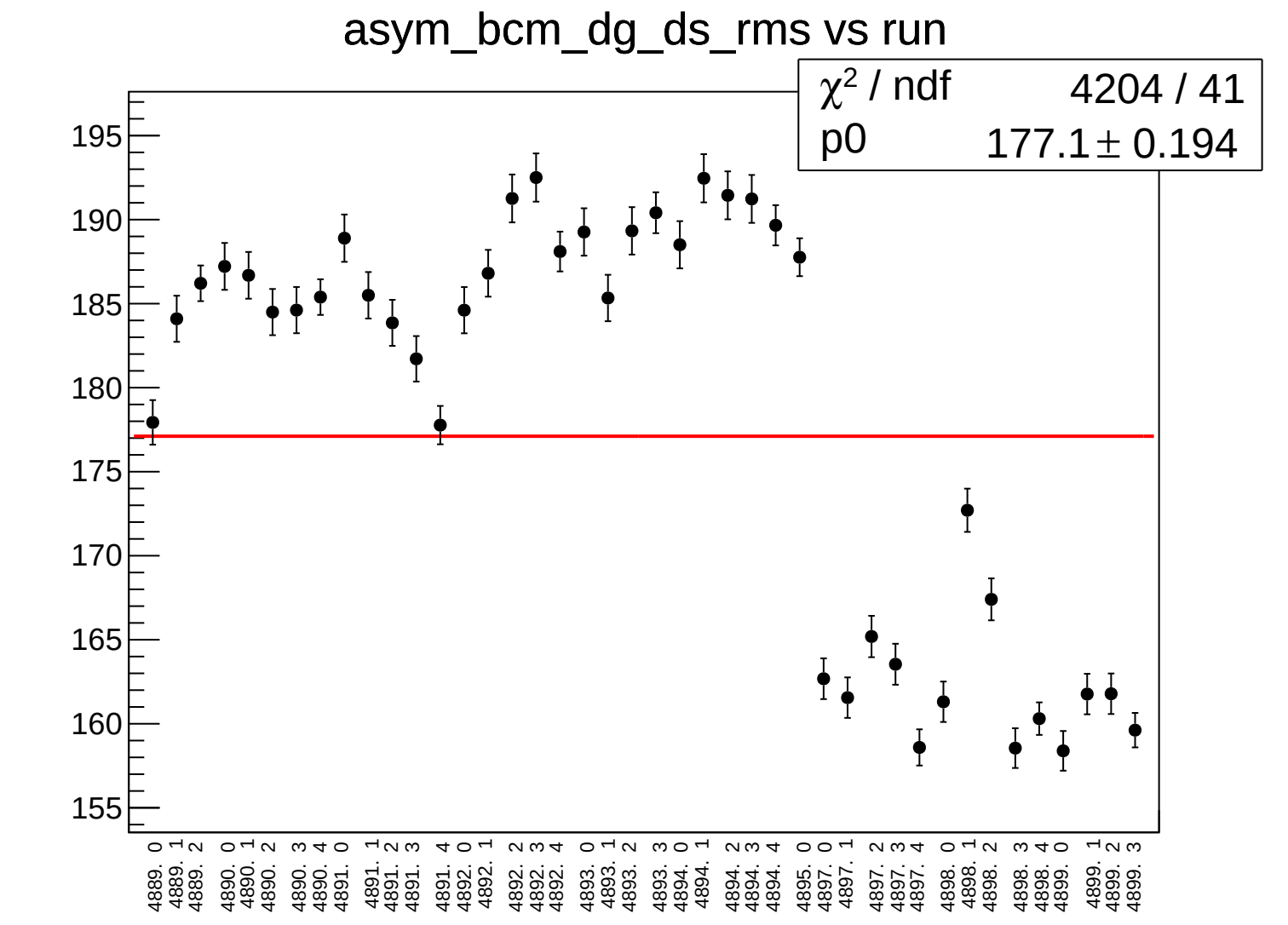

pull1D
Entries 42
Mean −0.0178
Std Dev 0.5451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

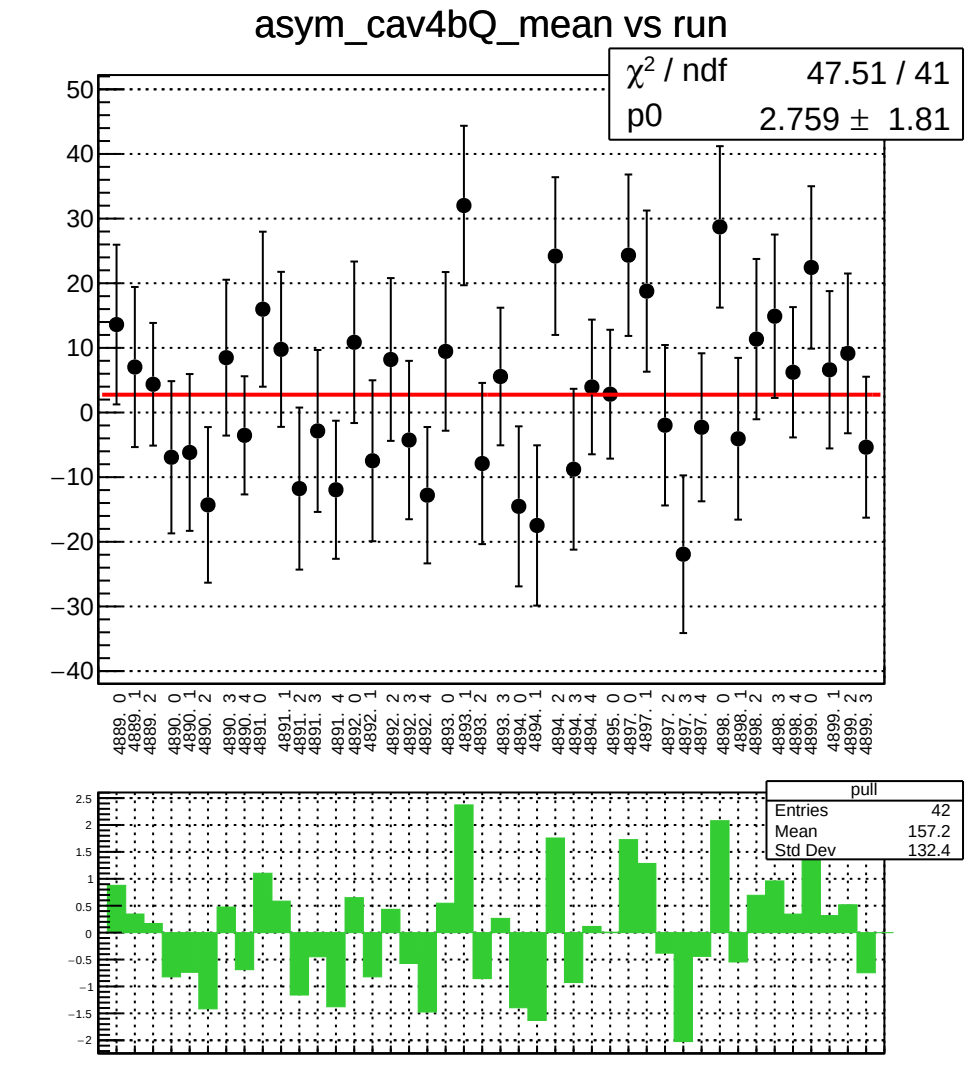

asym_bcm_an_us_rms vs run
χ² / ndf 5040 / 41
p0 185.9 ± 0.2037
200
190
180
170
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

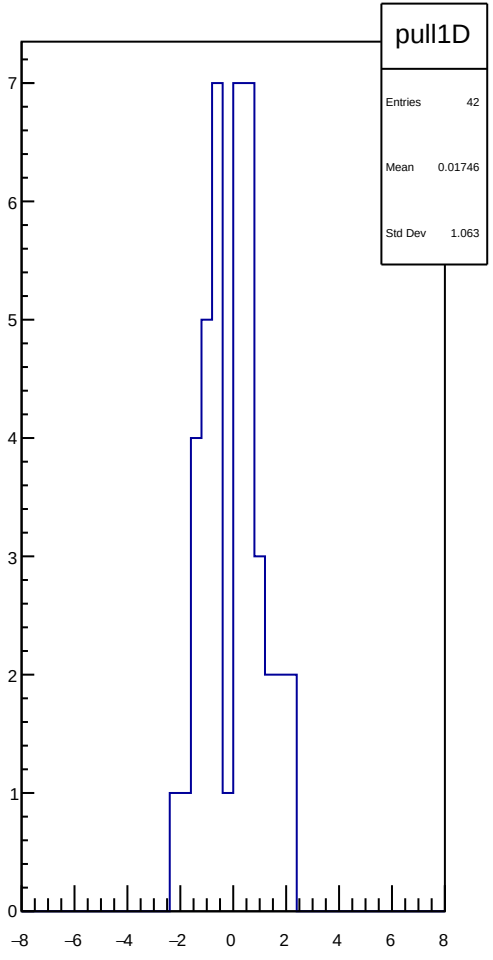

asym_bcm_dg_us_mean vs run
χ² / ndf 6.852 / 41
p0 274.7 ± 288.1
4000
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −39.9
Std Dev 66.18
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.01146
Std Dev 0.4037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

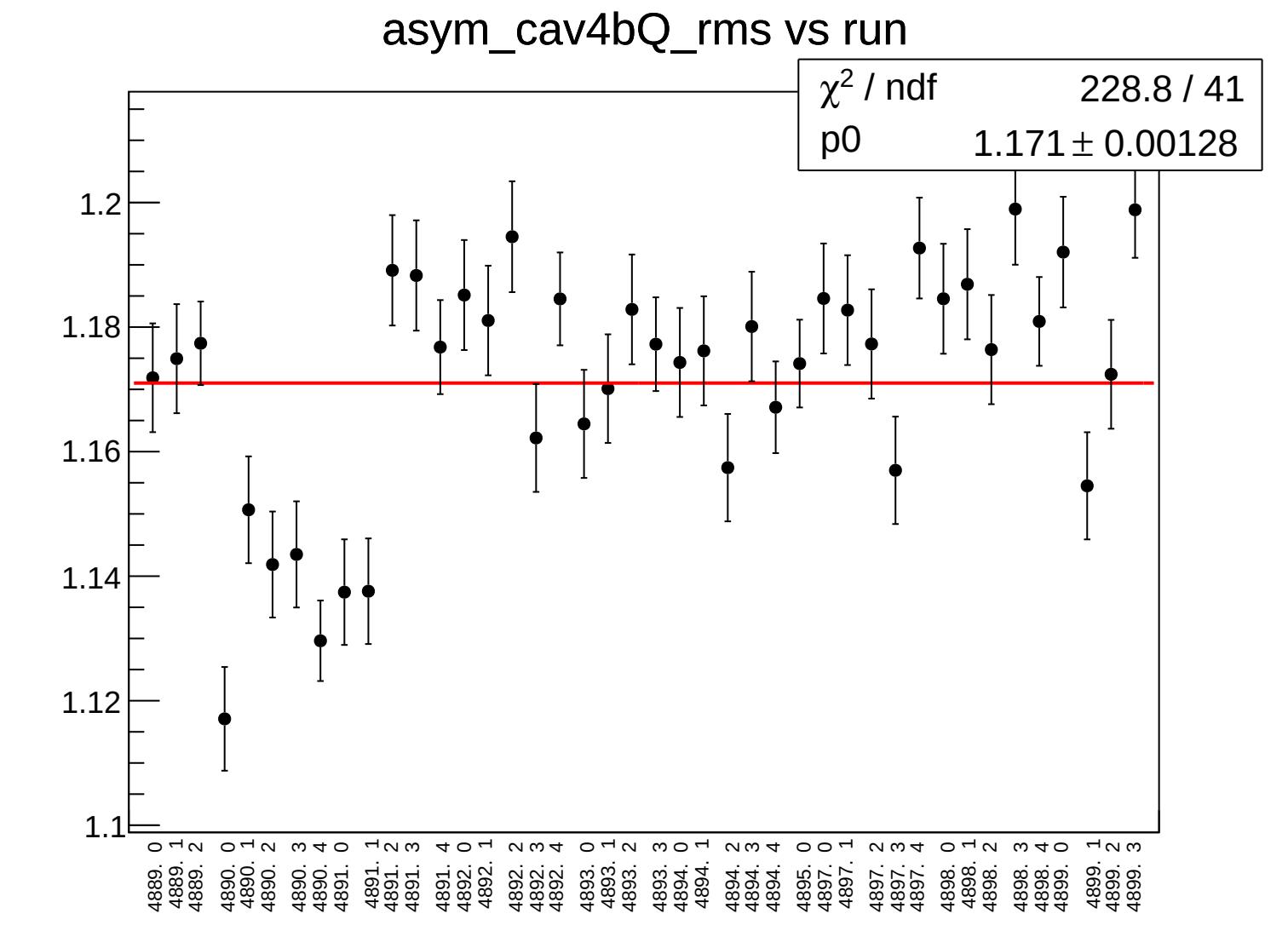

asym_bcm_dg_us_rms vs run
χ² / ndf 3635 / 41
p0 186 ± 0.2037
205
200
195
190
185
180
175
170
165
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

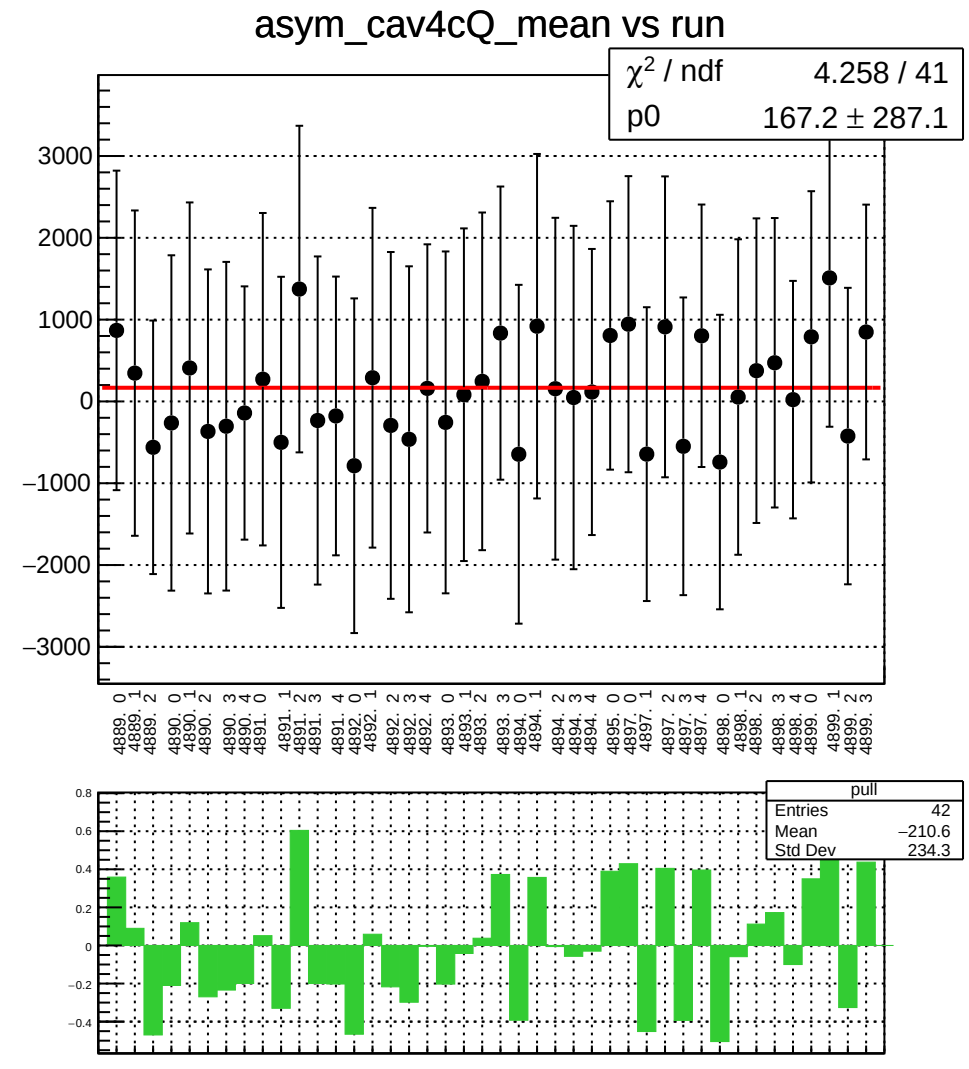

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.345 / 41
p0 206.5 ± 274.4
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −79.84
Std Dev 102.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 42
Mean −0.009919
Std Dev 0.282
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

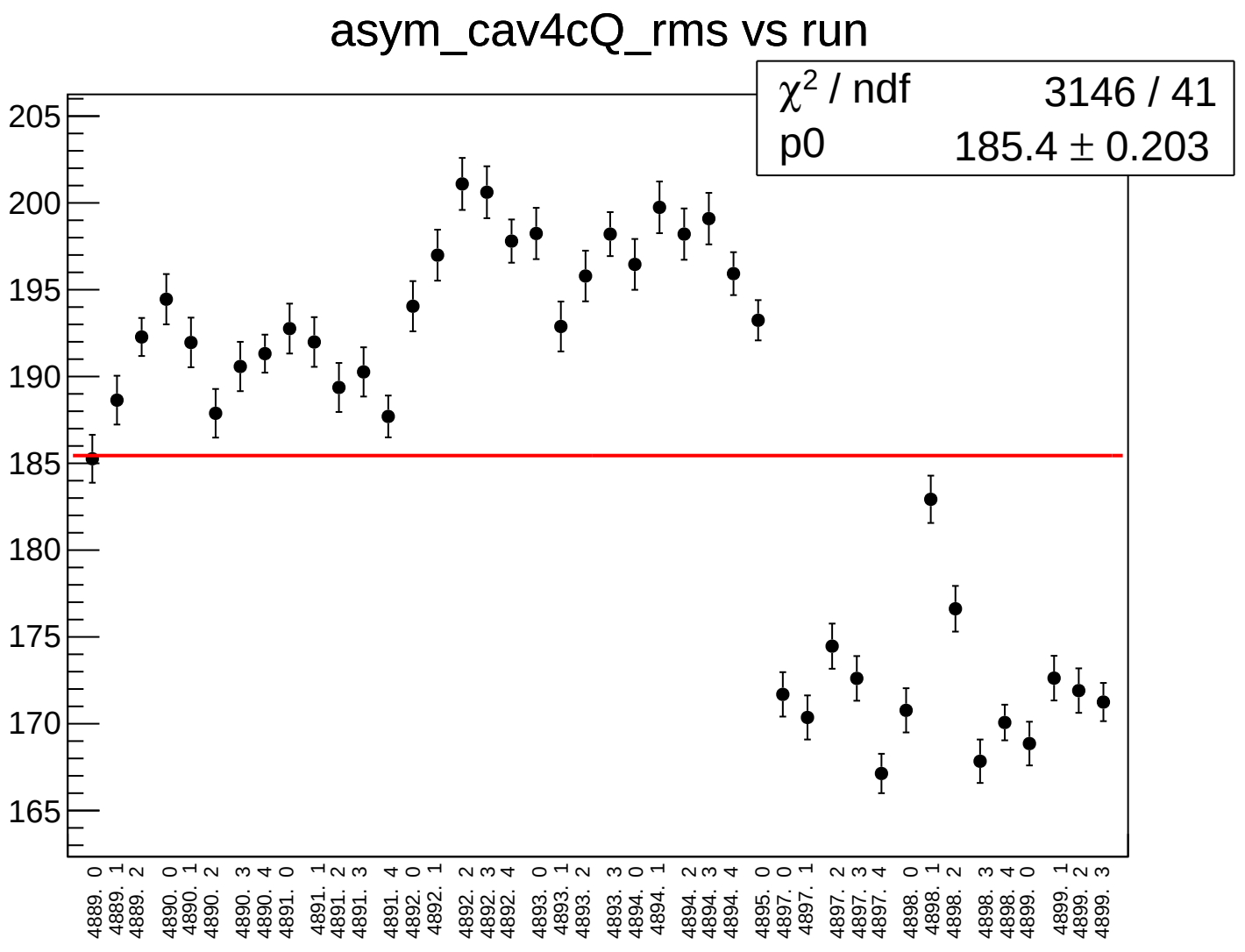

asym_bcm_dg_ds_rms vs run
χ² / ndf 4204 / 41
p0 177.1 ± 0.194
195
190
185
180
175
170
165
160
155
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

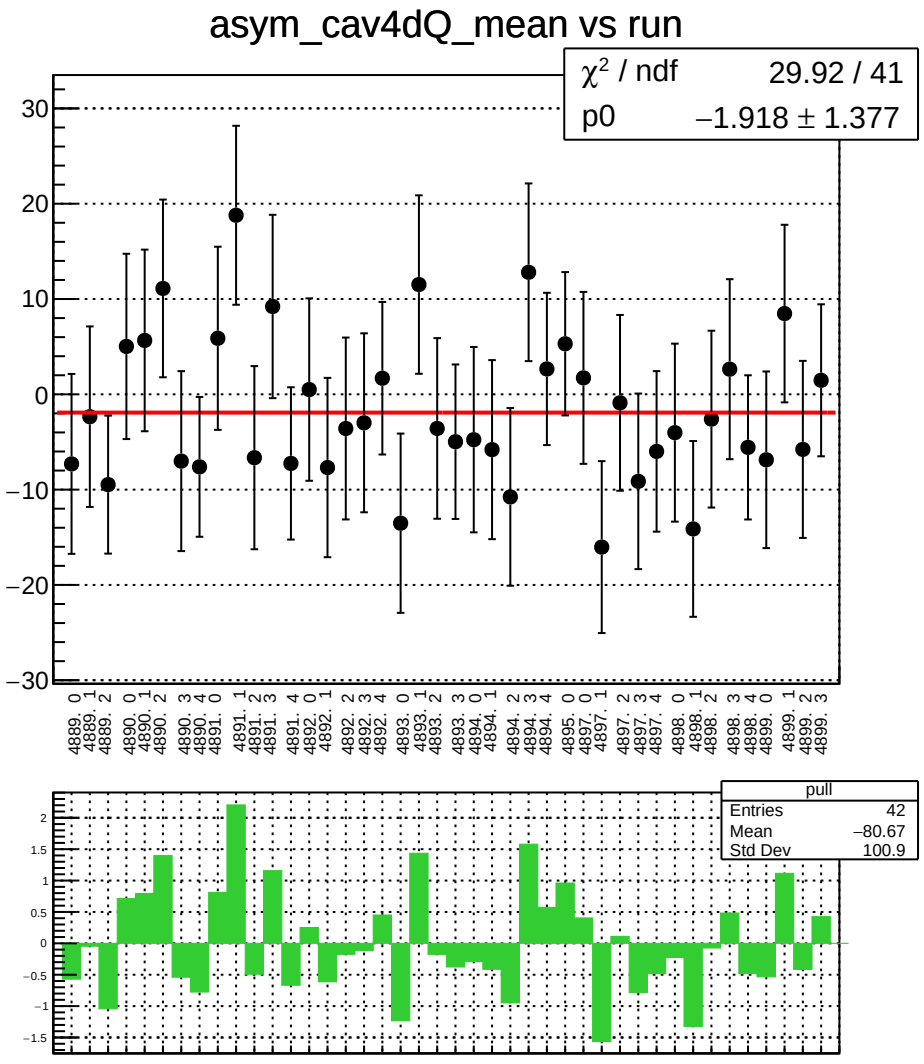

asym_cav4bQ_mean vs run
χ² / ndf 47.51 / 41
p0 2.759 ± 1.81
pull
Entries 42
Mean 157.2
Std Dev 132.4

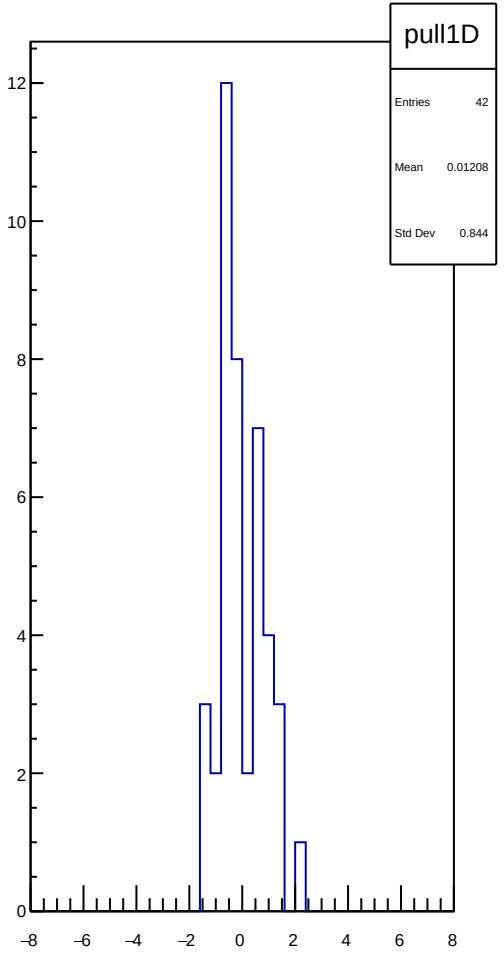

pull1D
Entries 42
Mean 0.01746
Std Dev 1.063

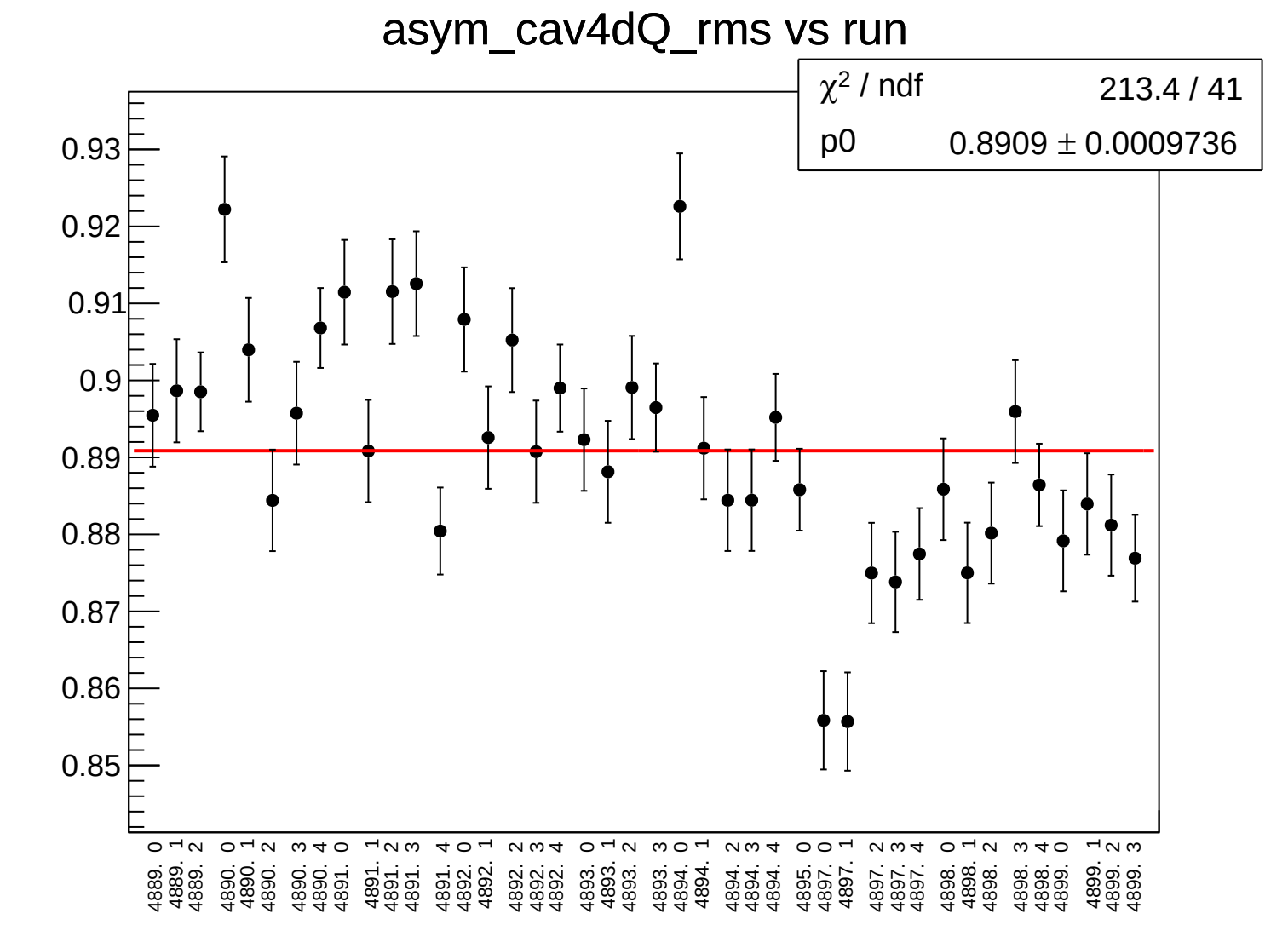

asym_cav4bQ_rms vs run
χ² / ndf 228.8 / 41
p0 1.171 ± 0.00128
1.2
1.18
1.16
1.14
1.12
1.1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

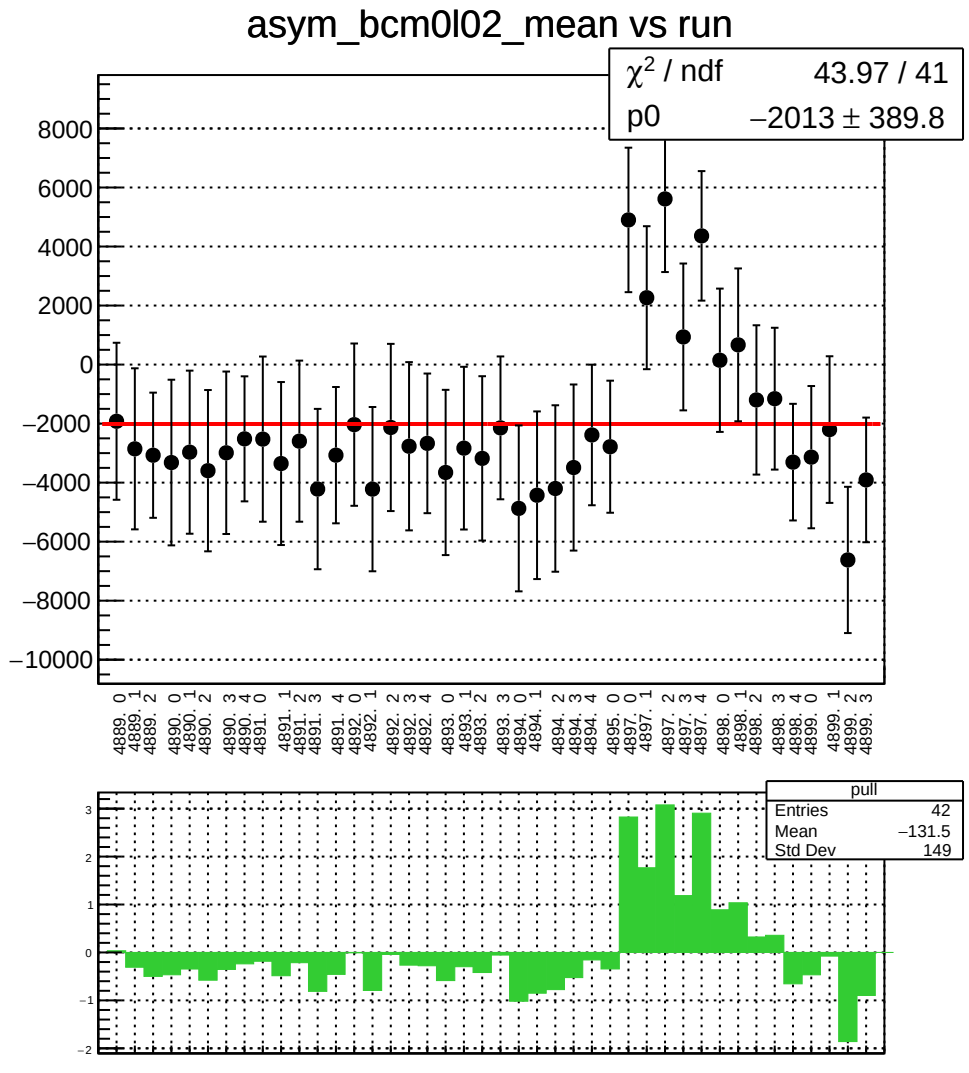

asym_cav4cQ_mean vs run
χ² / ndf 4.258 / 41
p0 167.2 ± 287.1
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −210.6
Std Dev 234.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 42
Mean −0.004354
Std Dev 0.3184
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

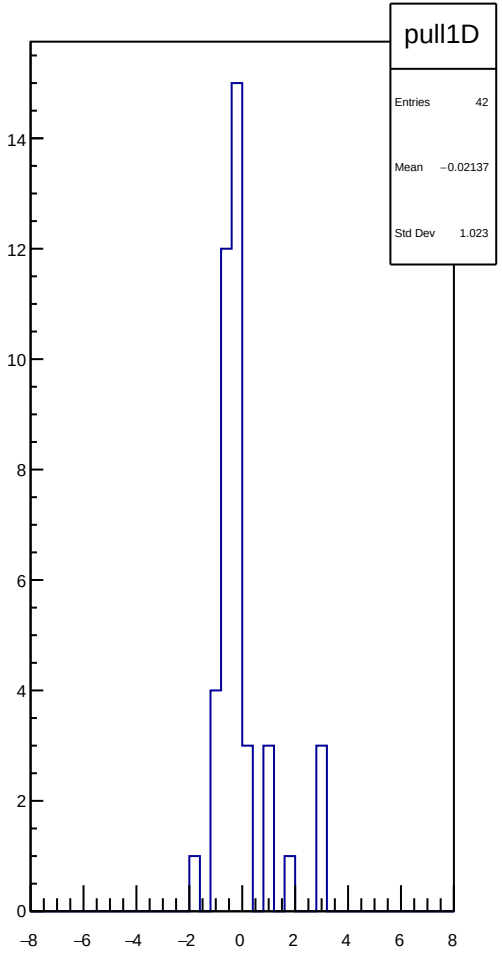

asym_cav4cQ_rms vs run
χ² / ndf 3146 / 41
p0 185.4 ± 0.203
205
200
195
190
185
180
175
170
165
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

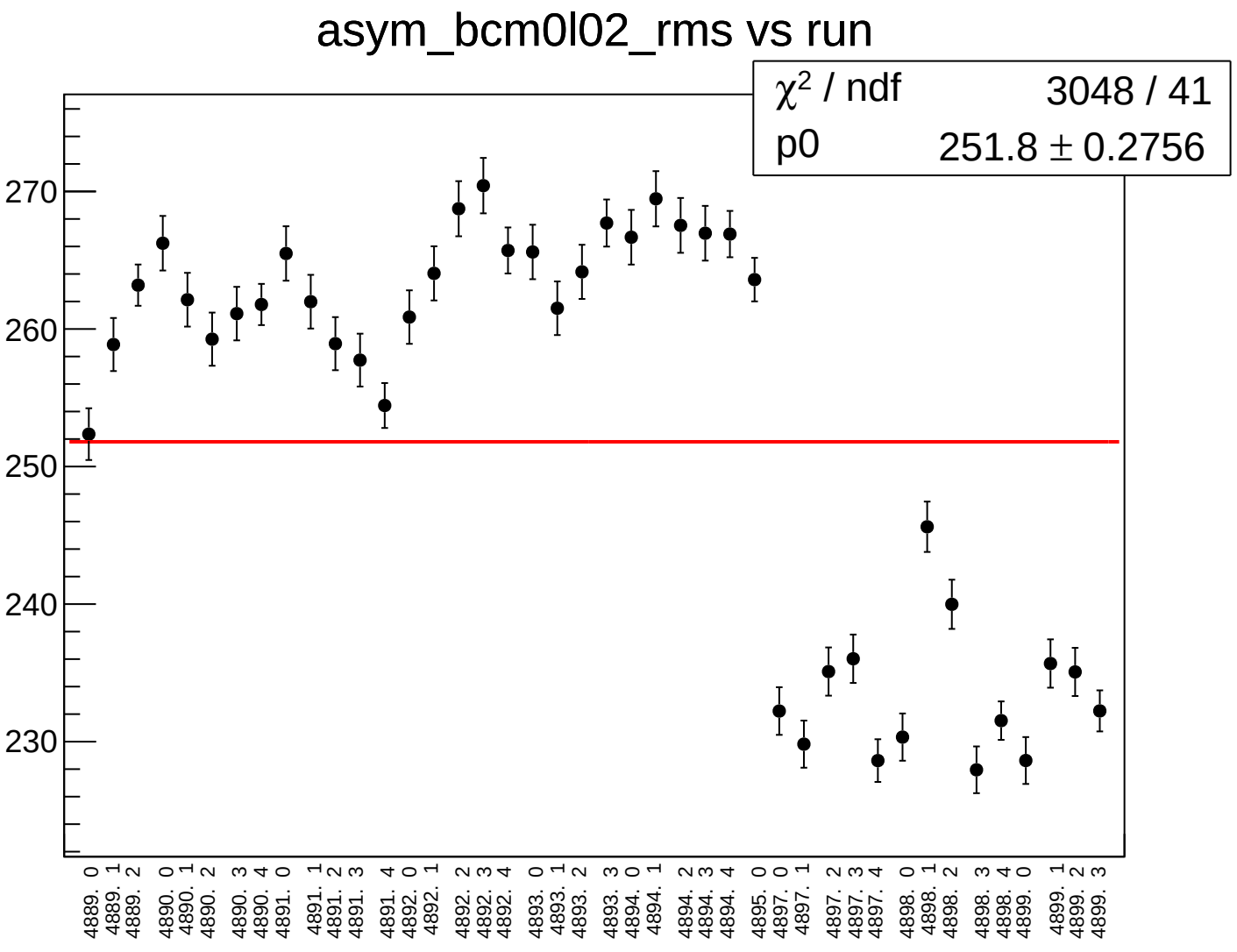

asym_cav4dQ_mean vs run
χ² / ndf 29.92 / 41
p0 −1.918 ± 1.377
pull
Entries 42
Mean −80.67
Std Dev 100.9

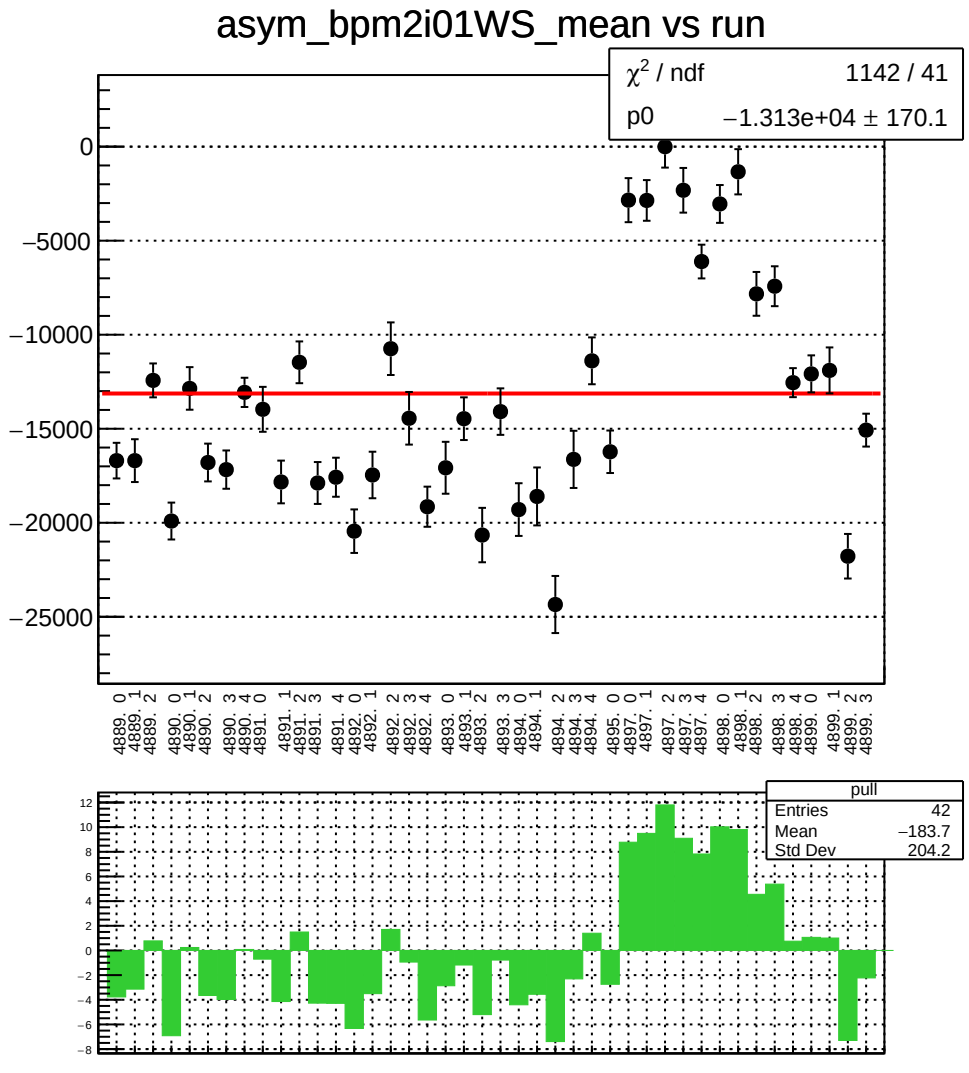

pull1D
Entries 42
Mean 0.01208
Std Dev 0.844

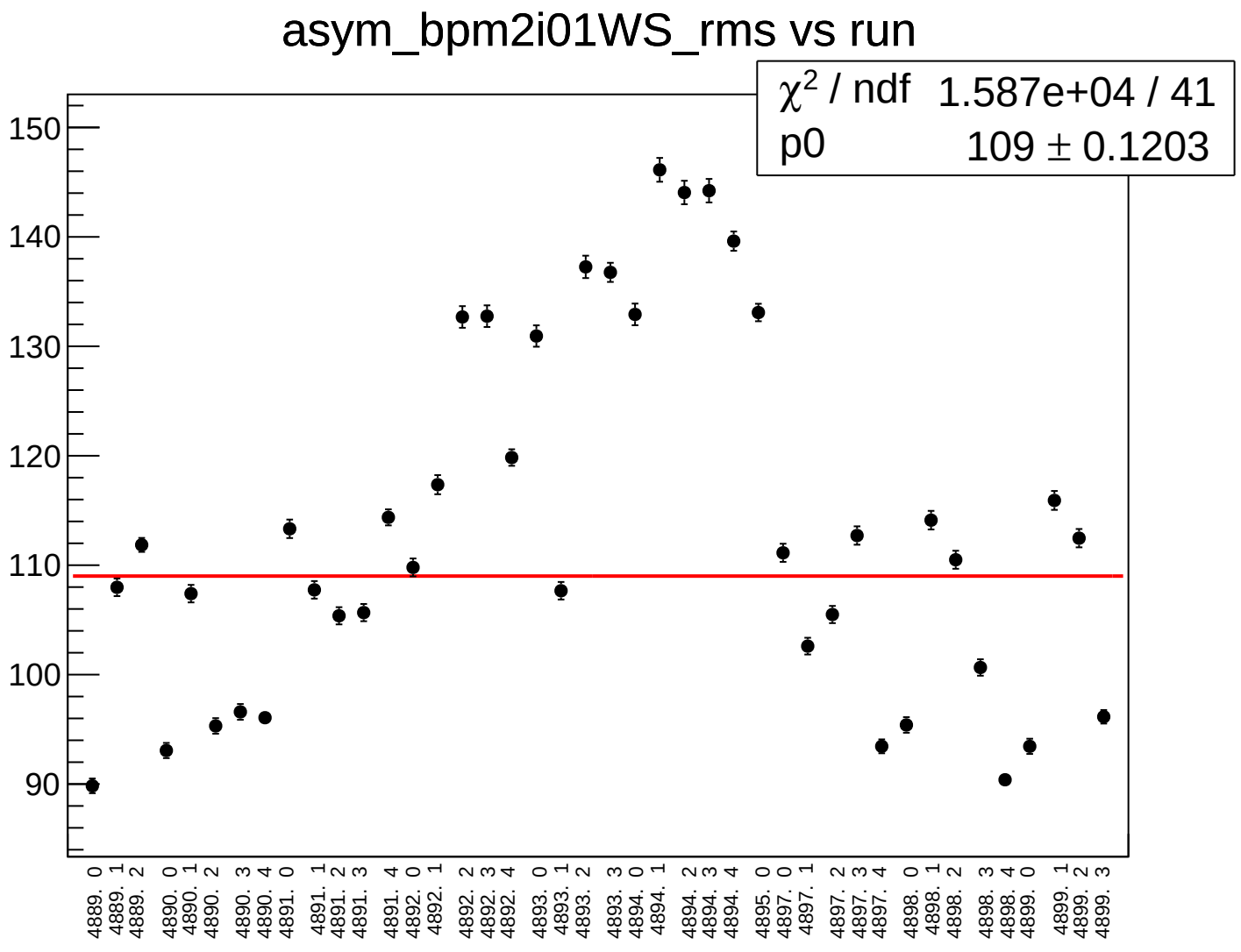

asym_cav4dQ_rms vs run
χ² / ndf 213.4 / 41
p0 0.8909 ± 0.0009736
0.93
0.92
0.91
0.9
0.89
0.88
0.87
0.86
0.85
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

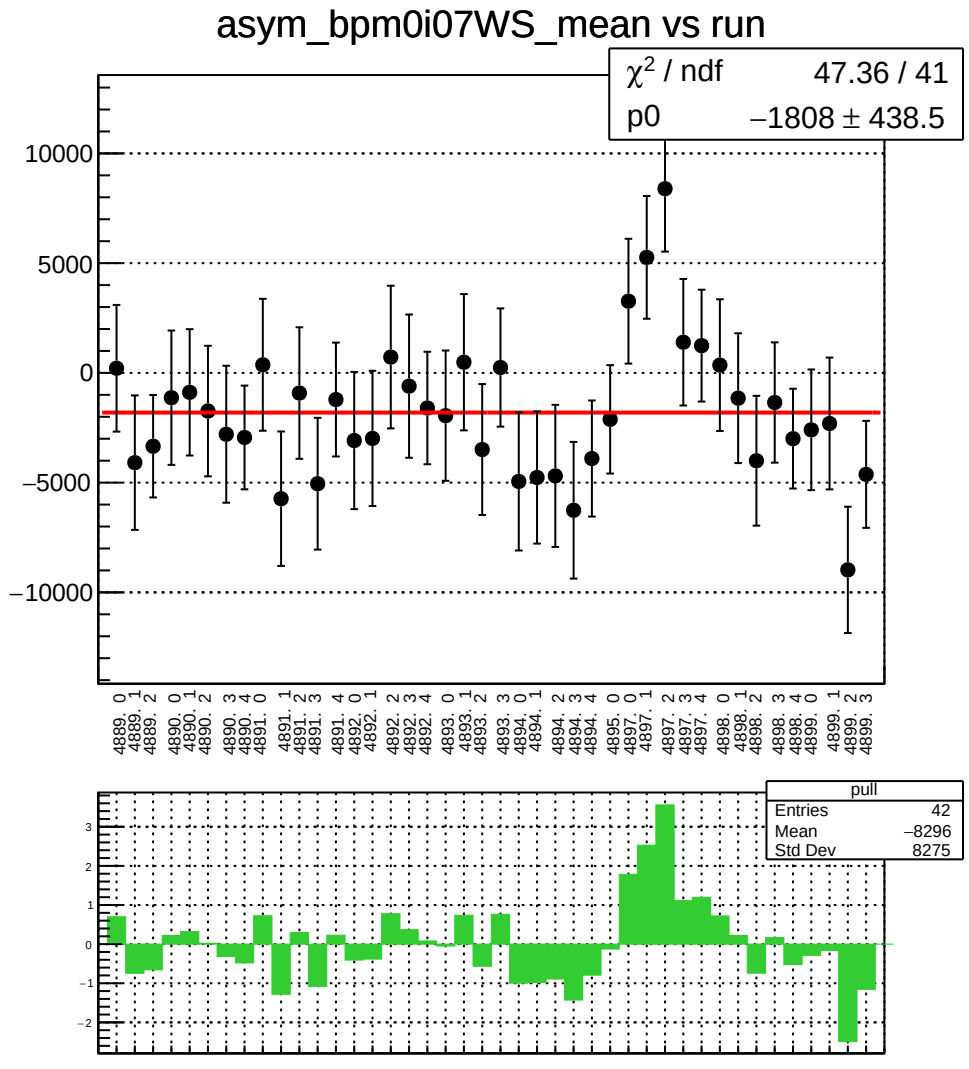

asym_bcm0l02_mean vs run
χ² / ndf 43.97 / 41
p0 −2013 ± 389.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −131.5
Std Dev 149
3
2
1
0
−1
−2

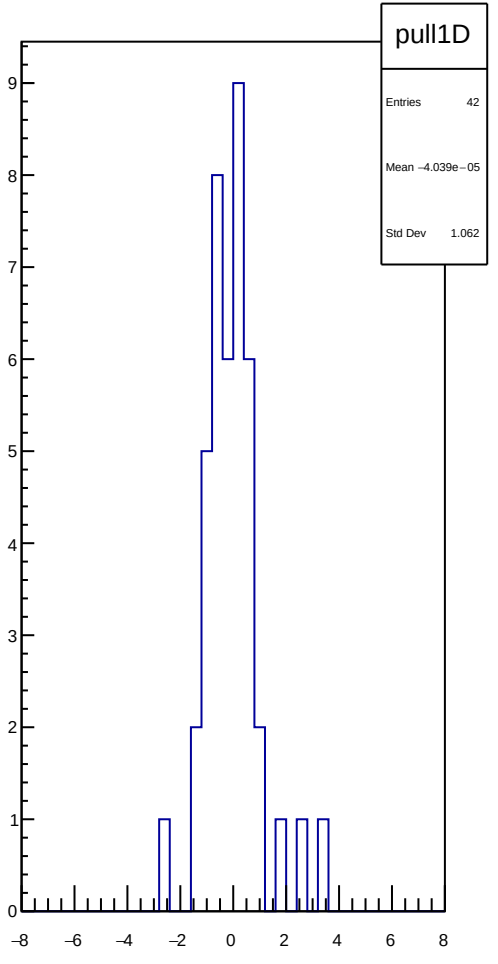

pull1D
Entries 42
Mean −0.02137
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

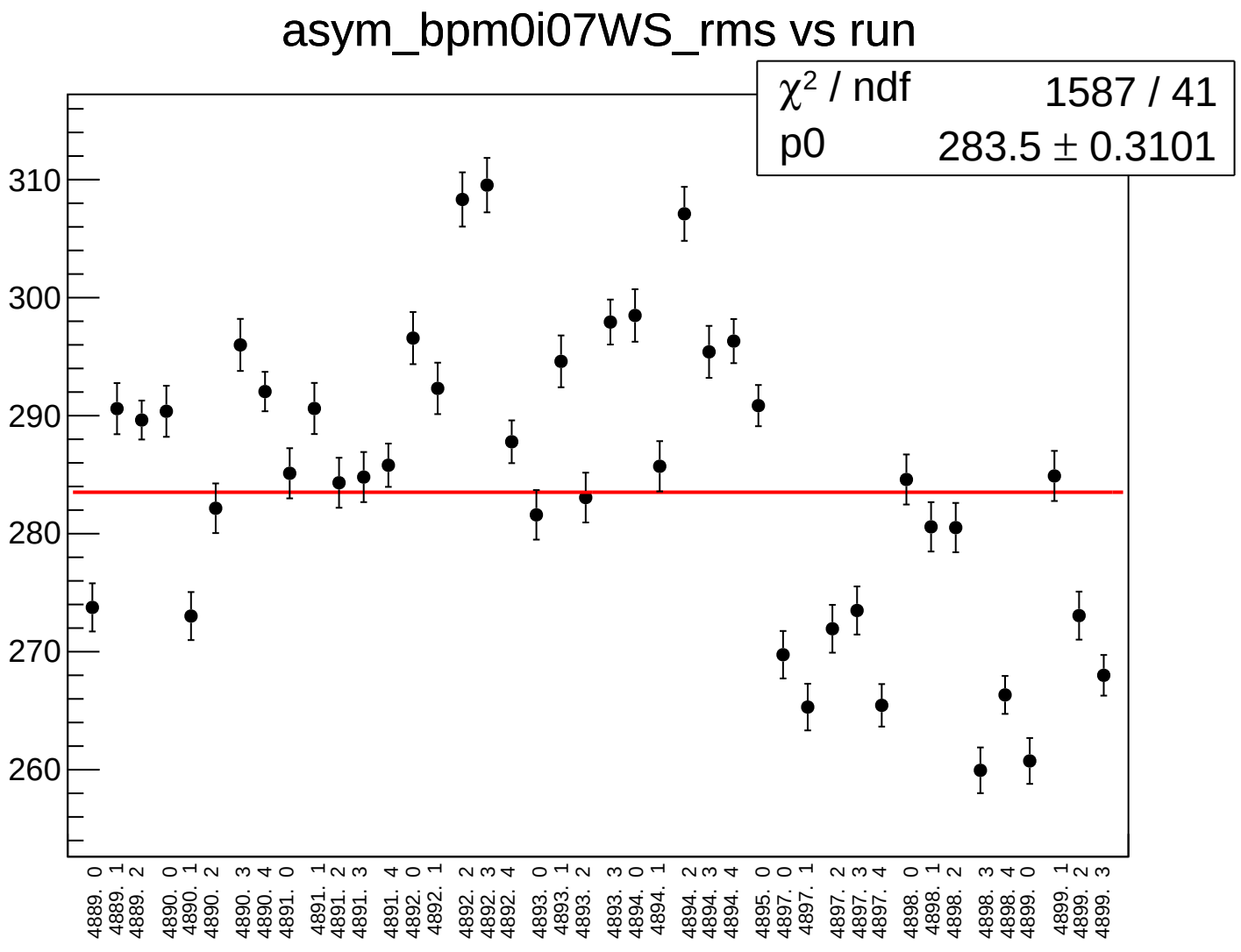

asym_bcm0l02_rms vs run
χ² / ndf 3048 / 41
p0 251.8 ± 0.2756
270
260
250
240
230
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

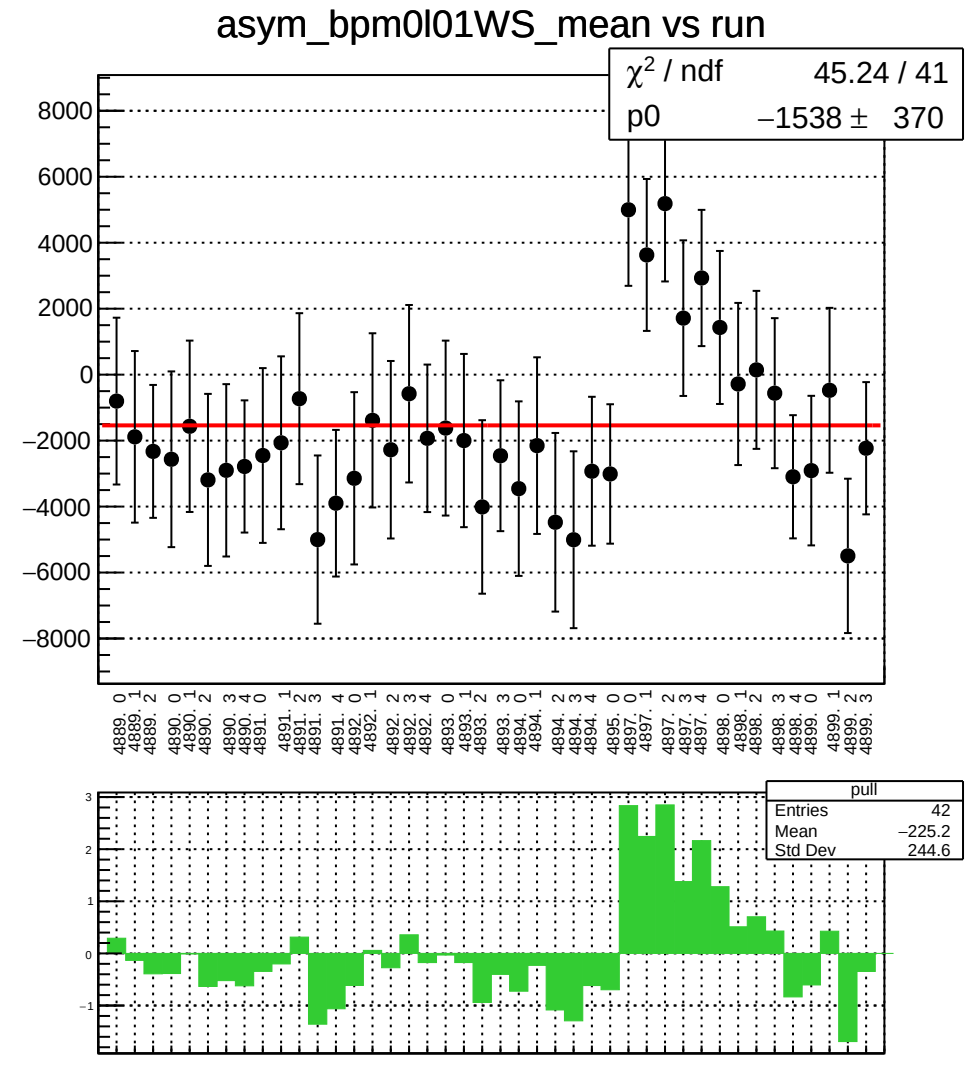

asym_bpm2i01WS_mean vs run
χ² / ndf 1142 / 41
p0 −1.313e+04 ± 170.1
0
−5000
−10000
−15000
−20000
−25000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −183.7
Std Dev 204.2
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 42
Mean −1.804
Std Dev 3.493
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

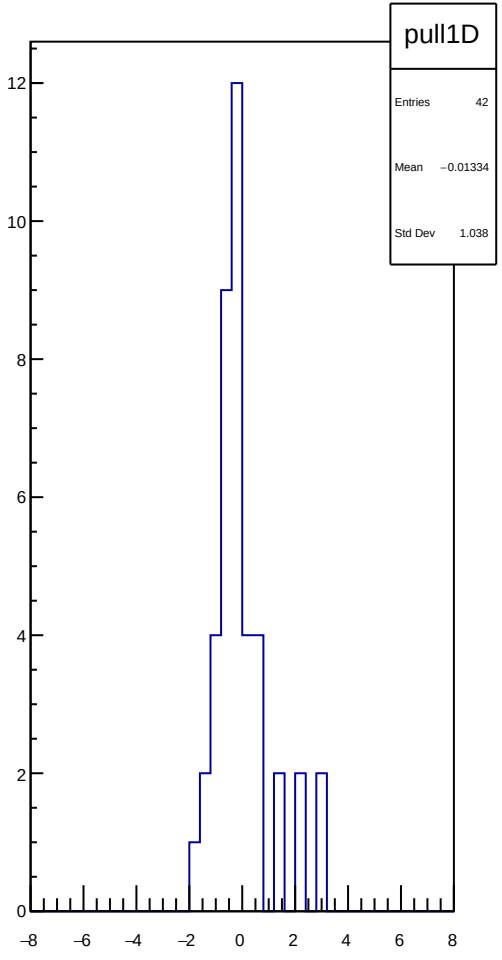

asym_bpm2i01WS_rms vs run
χ² / ndf 1.587e+04 / 41
p0 109 ± 0.1203
150
140
130
120
110
100
90
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

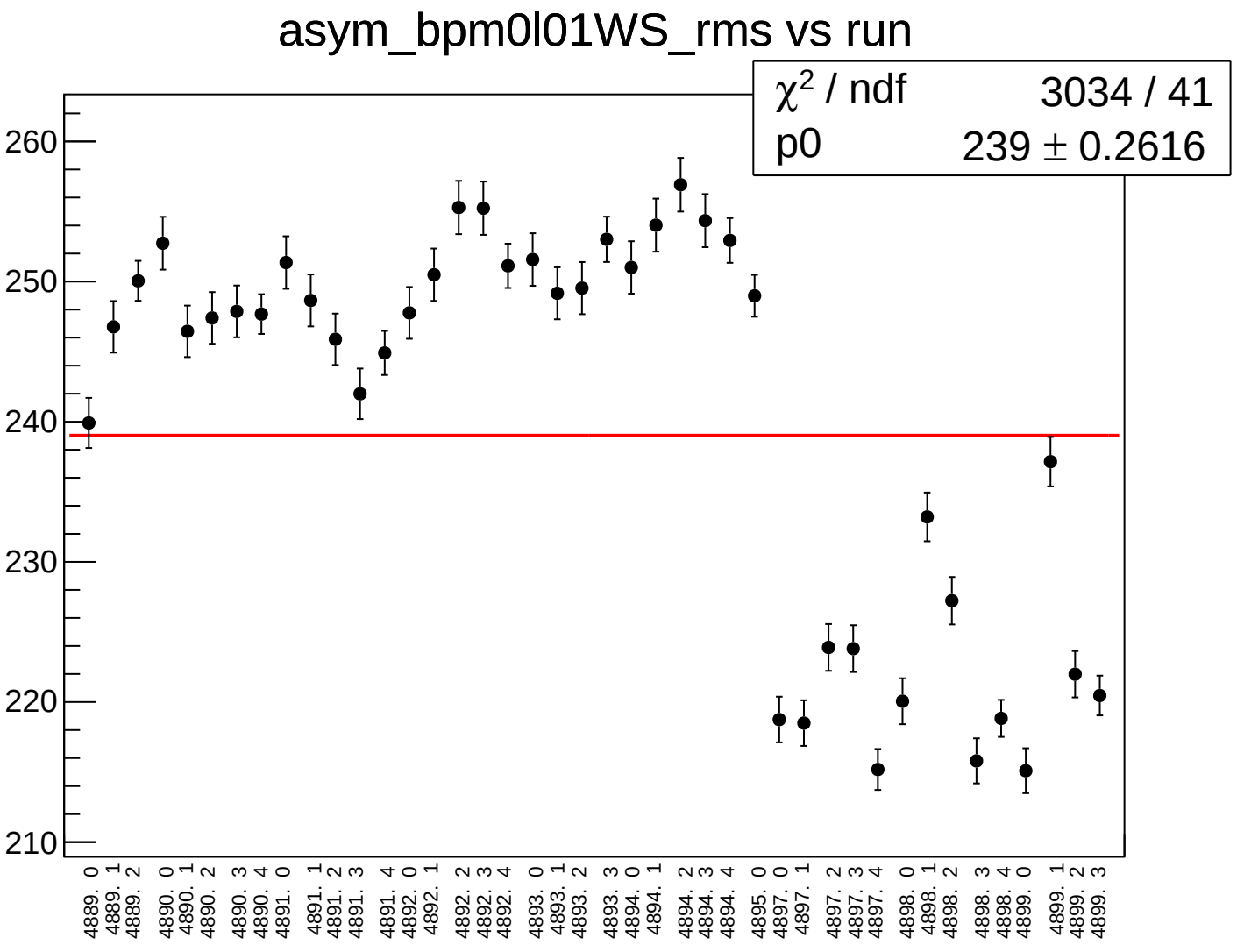

asym_bpm0i07WS_mean vs run
χ² / ndf 47.36 / 41
p0 −1808 ± 438.5
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −8296
Std Dev 8275
3
2
1
0
−1
−2

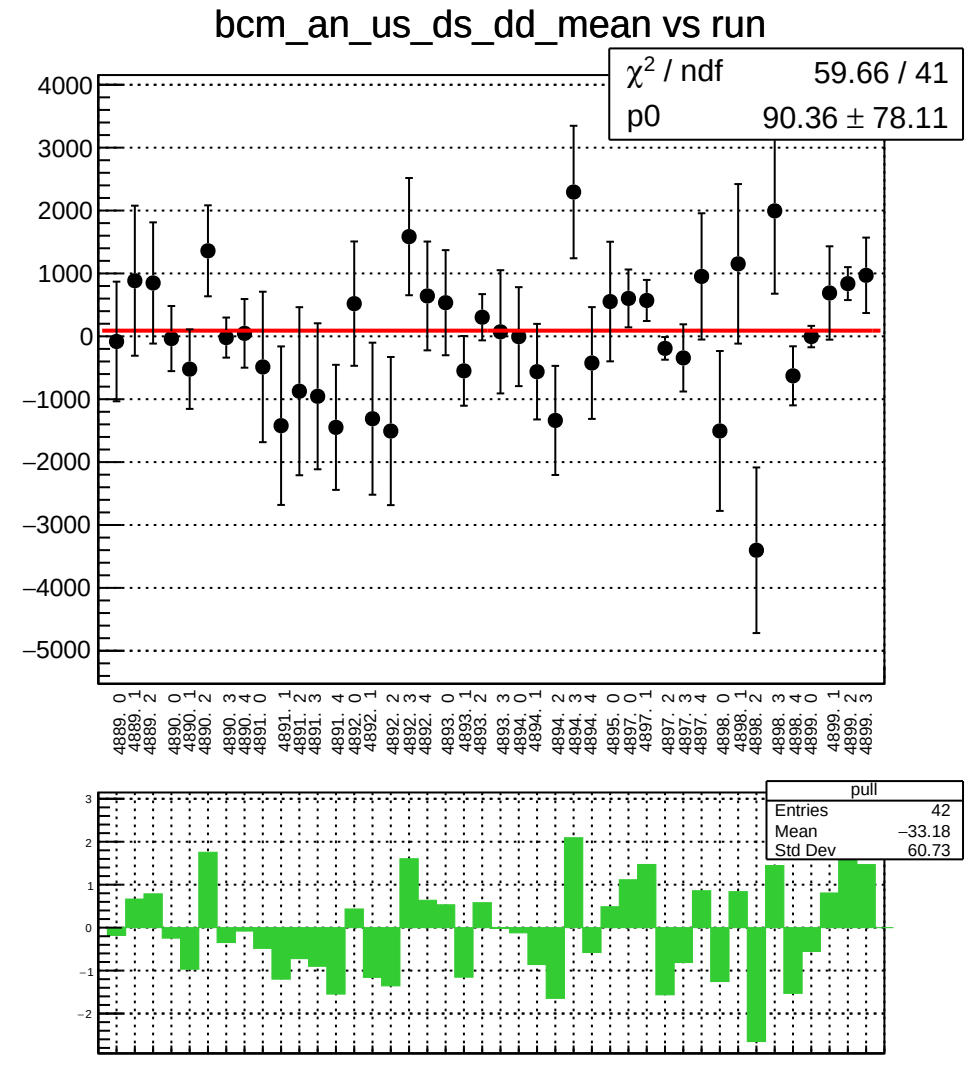

pull1D
Entries 42
Mean −4.039e−05
Std Dev 1.062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

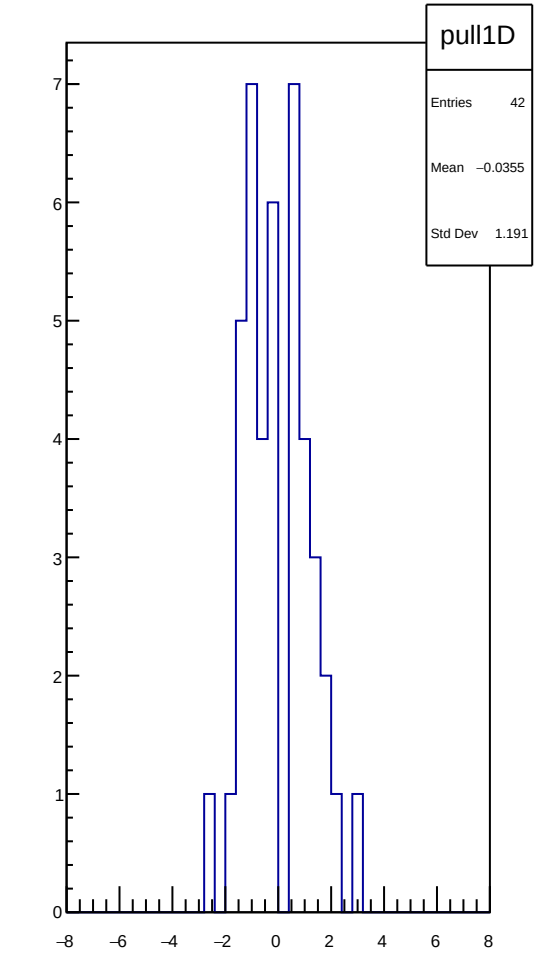

asym_bpm0i07WS_rms vs run
χ² / ndf 1587 / 41
p0 283.5 ± 0.3101
310
300
290
280
270
260
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

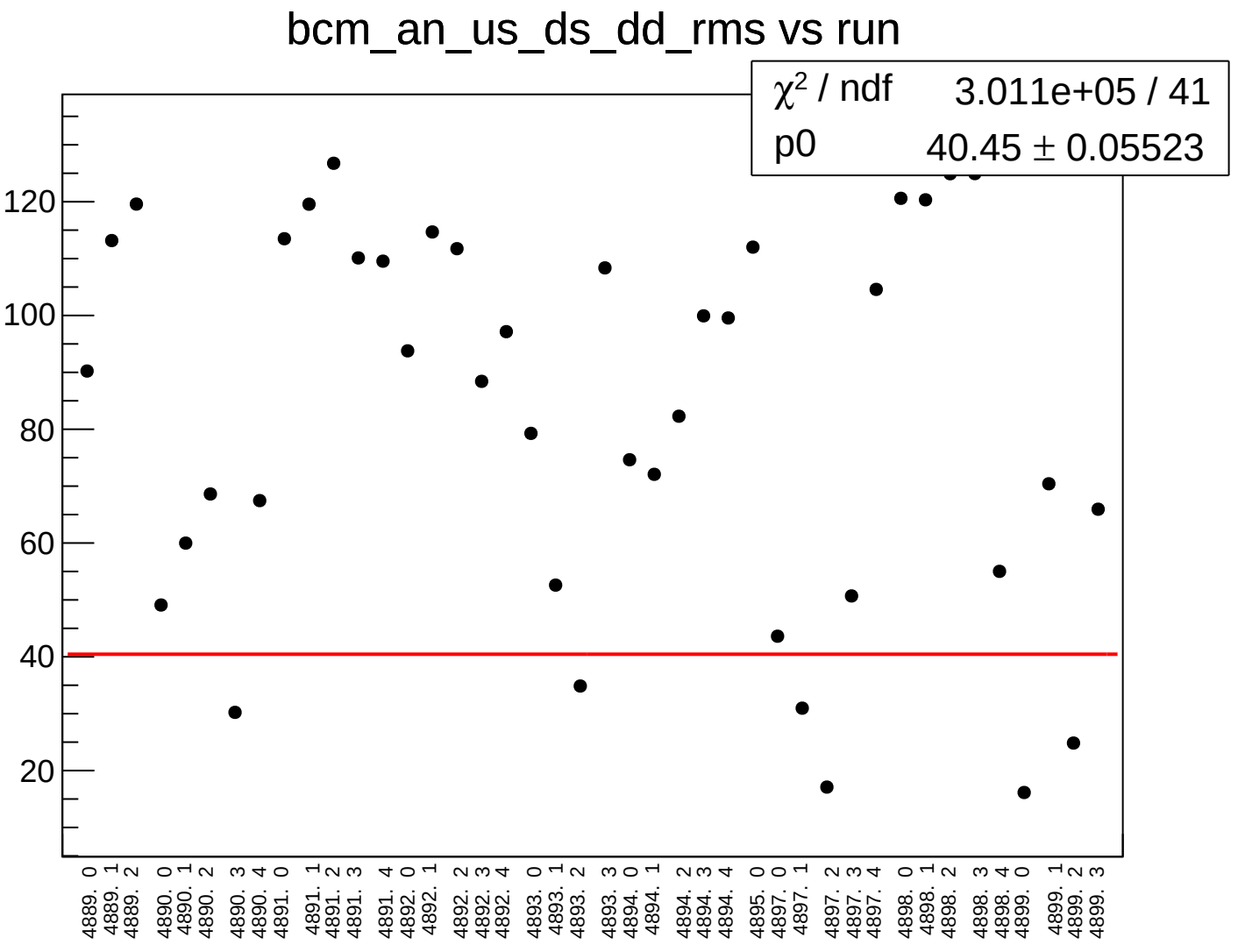

asym_bpm0l01WS_mean vs run
χ² / ndf 45.24 / 41
p0 −1538 ± 370
pull
Entries 42
Mean −225.2
Std Dev 244.6

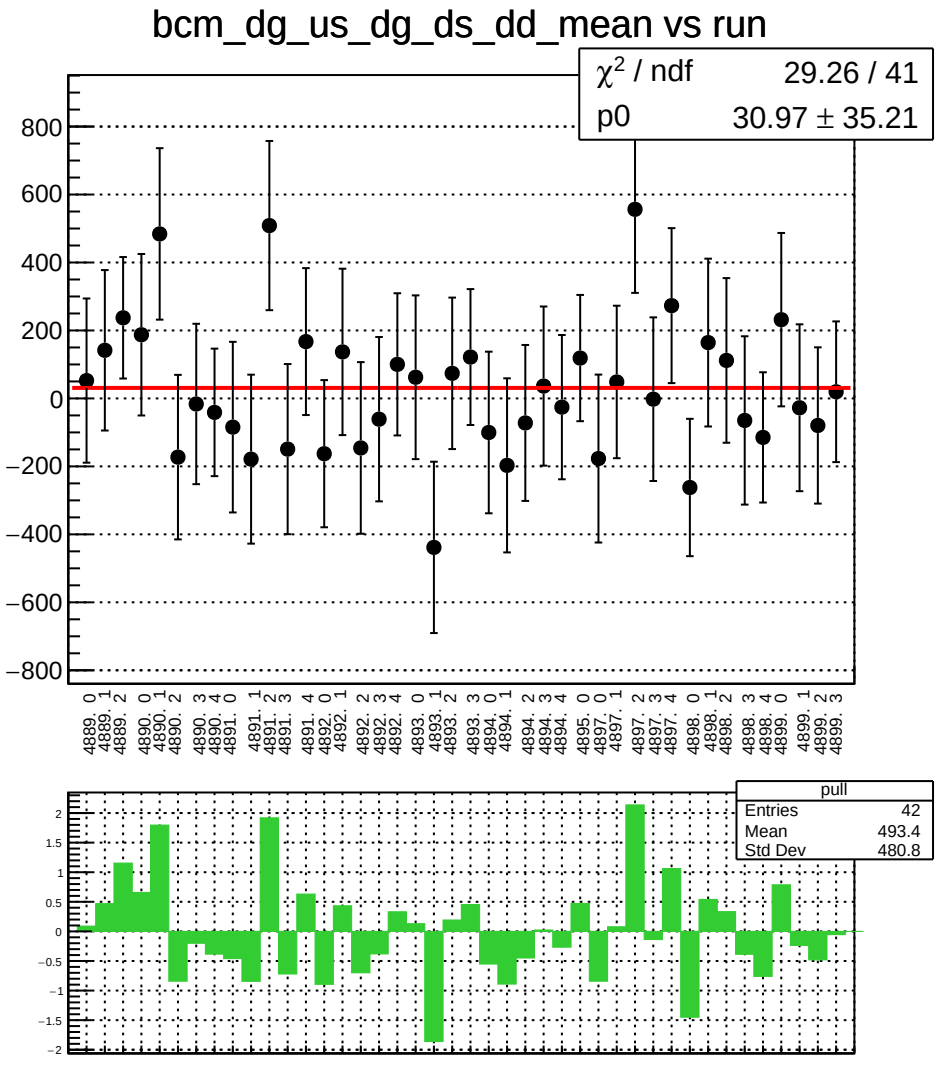

pull1D
Entries 42
Mean −0.01334
Std Dev 1.038

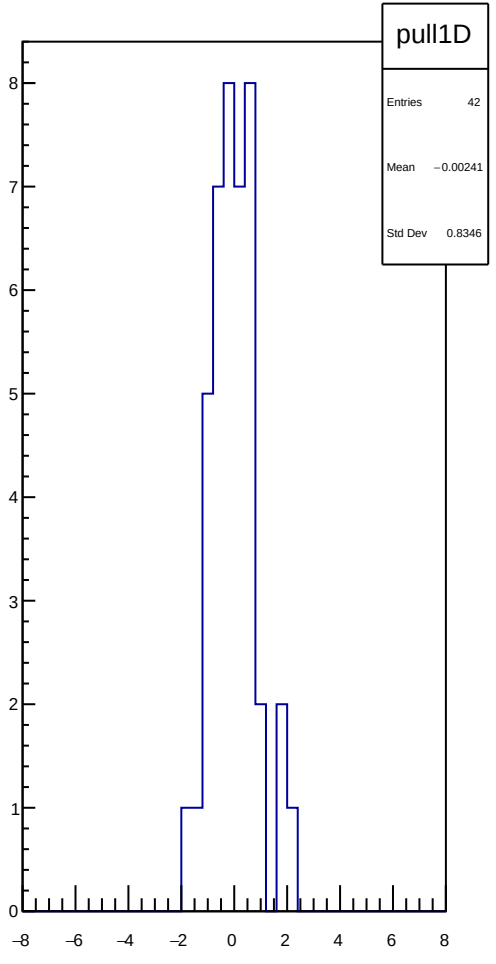

asym_bpm0l01WS_rms vs run
χ² / ndf 3034 / 41
p0 239 ± 0.2616
260
250
240
230
220
210
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

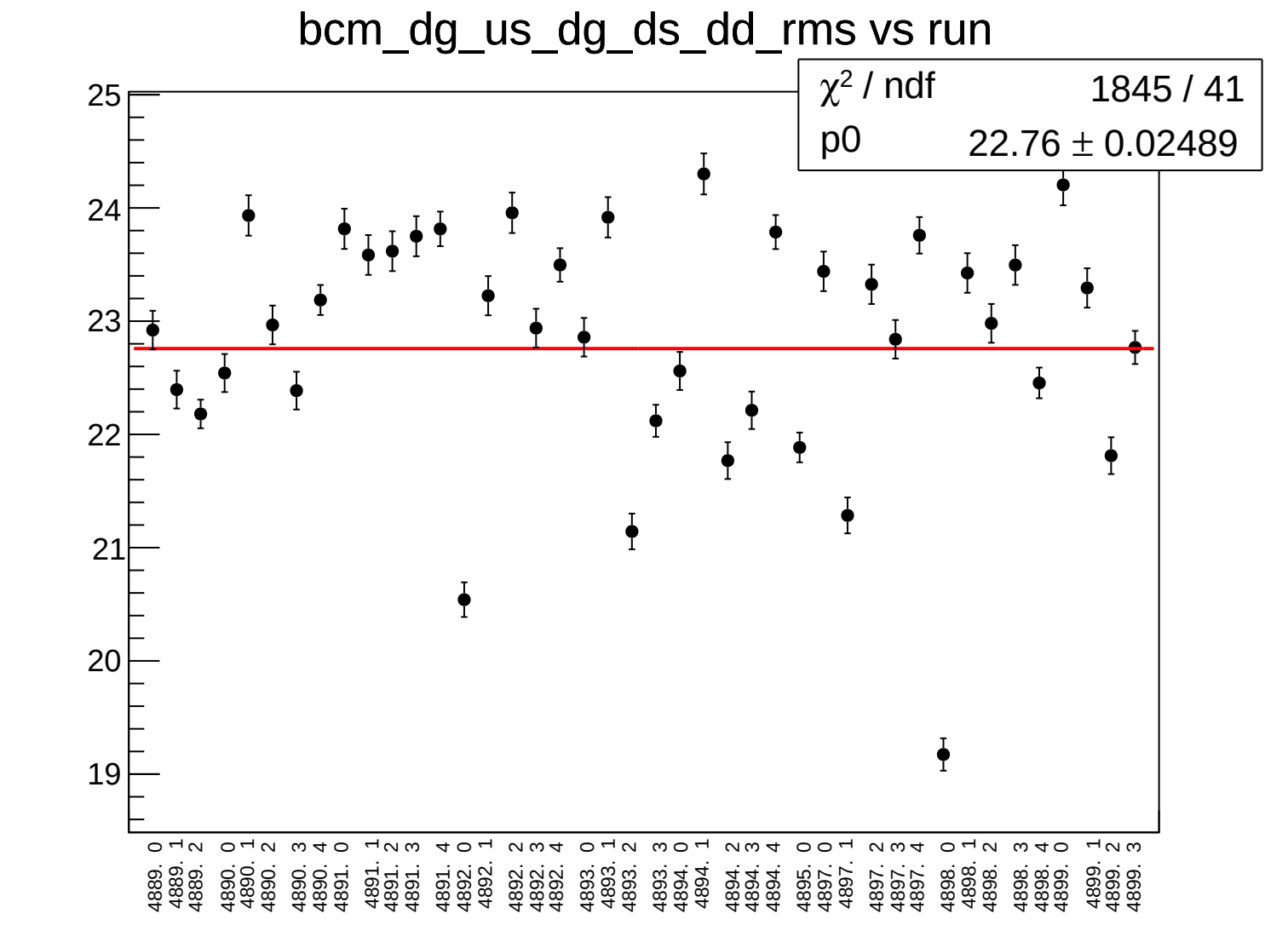

bcm_an_us_ds_dd_mean vs run
χ² / ndf 59.66 / 41
p0 90.36 ± 78.11
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −33.18
Std Dev 60.73
3
2
1
0
−1
−2

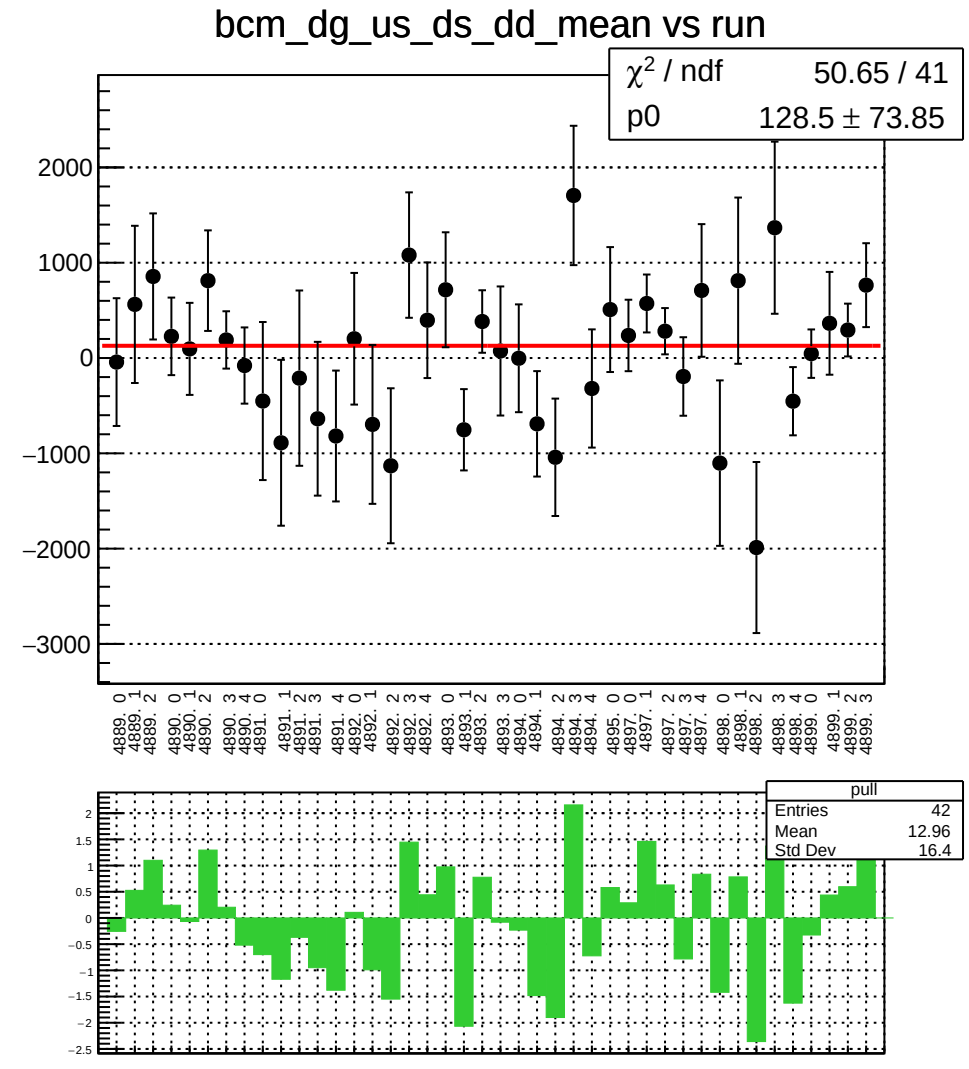

pull1D
Entries 42
Mean −0.0355
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

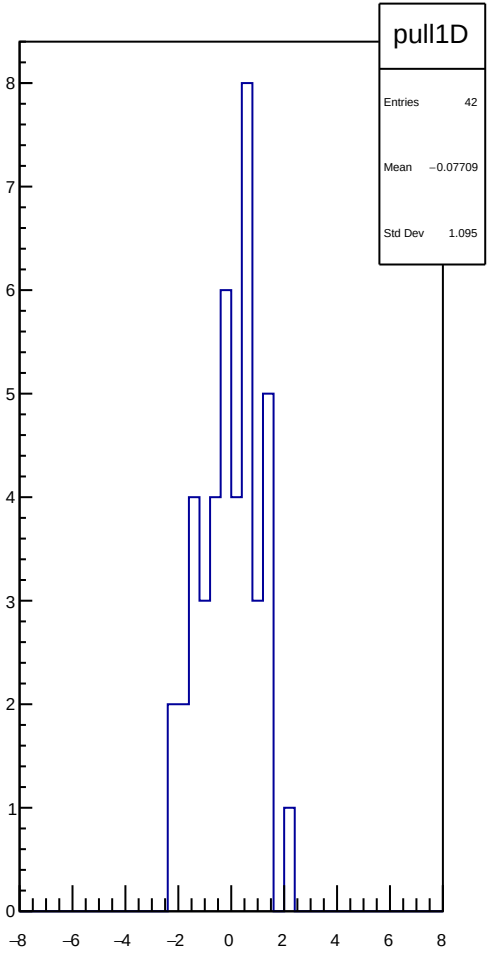

bcm_an_us_ds_dd_rms vs run
χ^2 / ndf 3.011e+05 / 41
p0 40.45 ± 0.05523
120
100
80
60
40
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

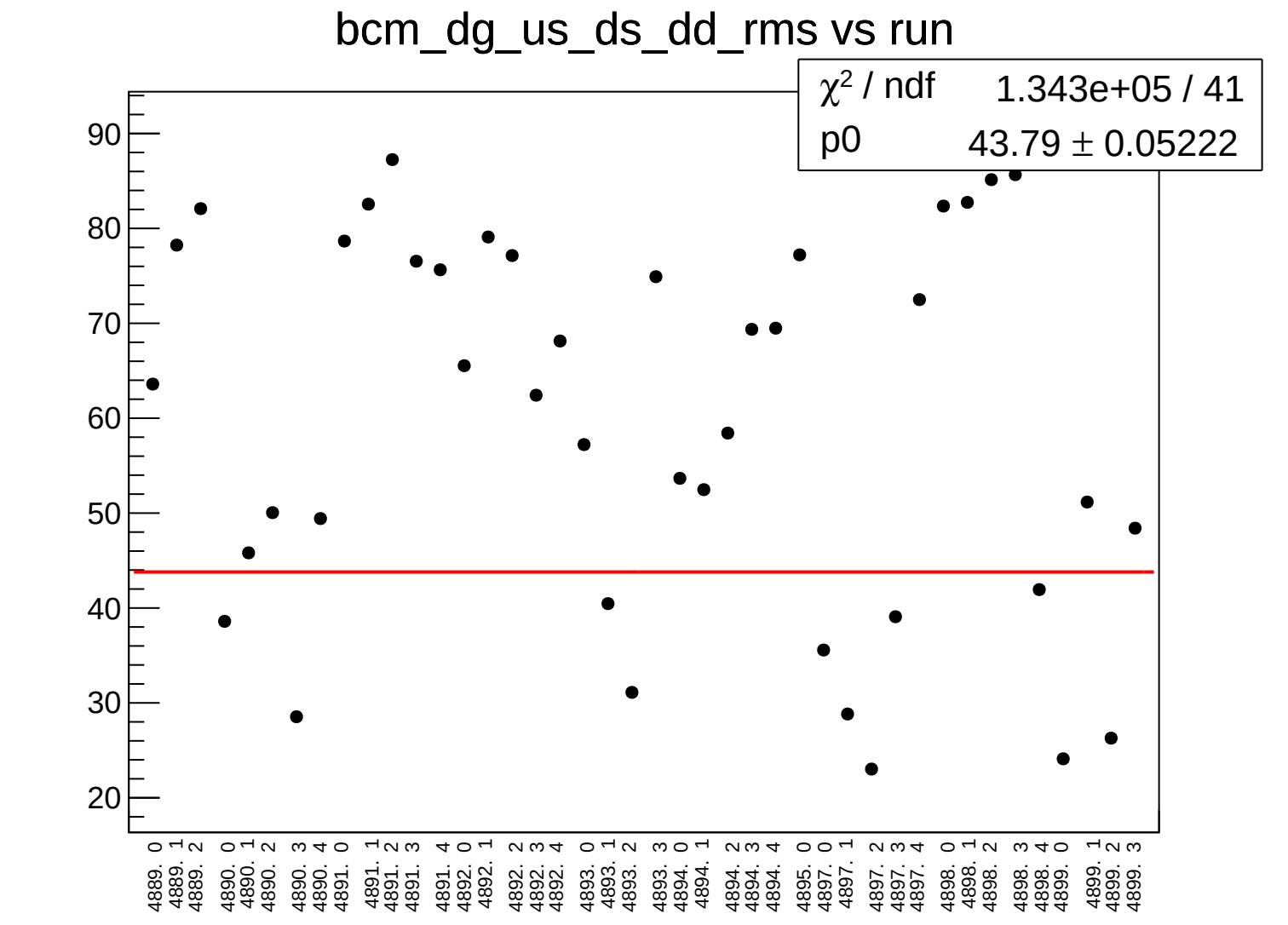

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 29.26 / 41
p0 30.97 ± 35.21
pull
Entries 42
Mean 493.4
Std Dev 480.8

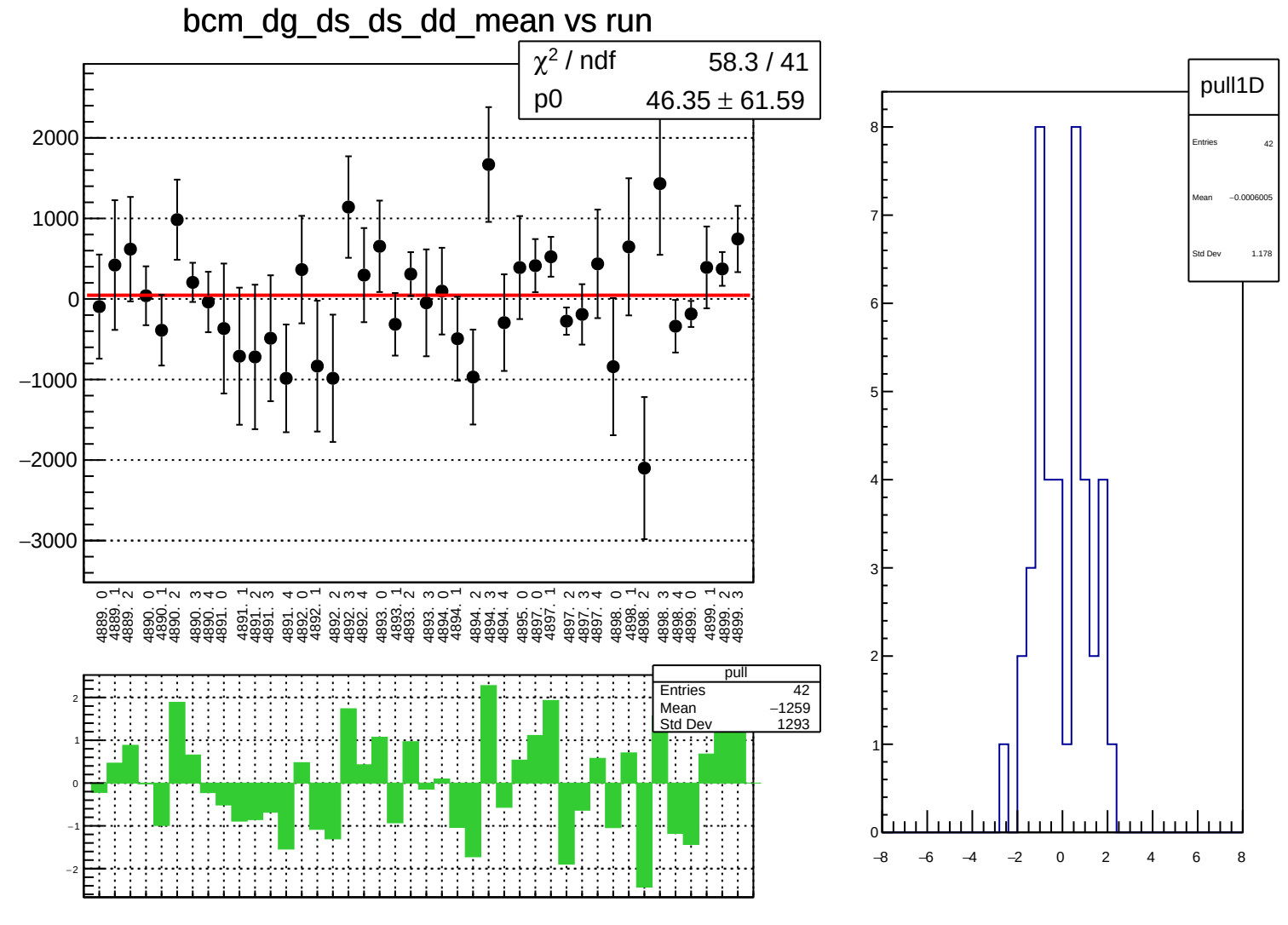

pull1D
Entries 42
Mean −0.00241
Std Dev 0.8346

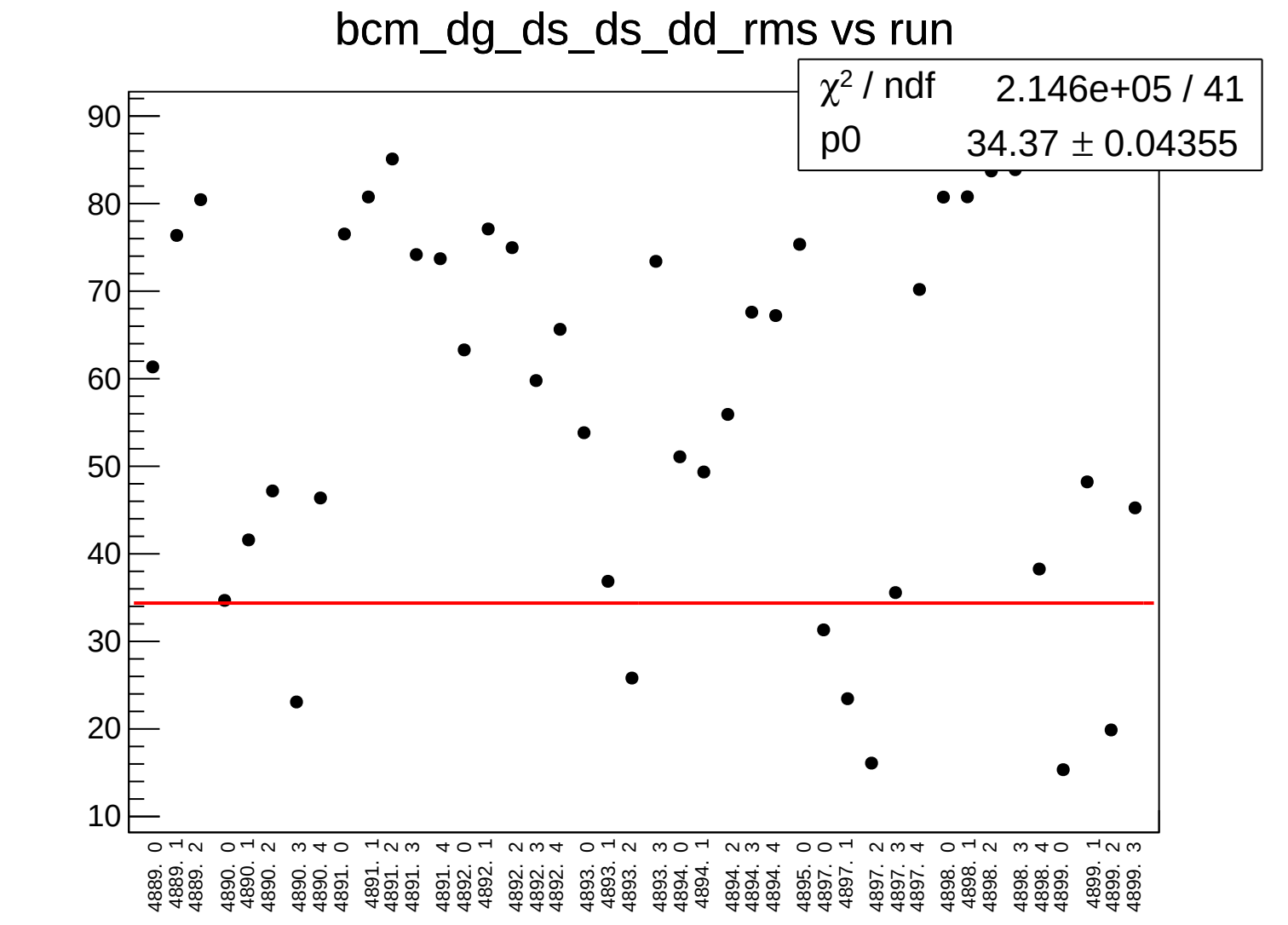

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1845 / 41
p0 22.76 ± 0.02489
25
24
23
22
21
20
19
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

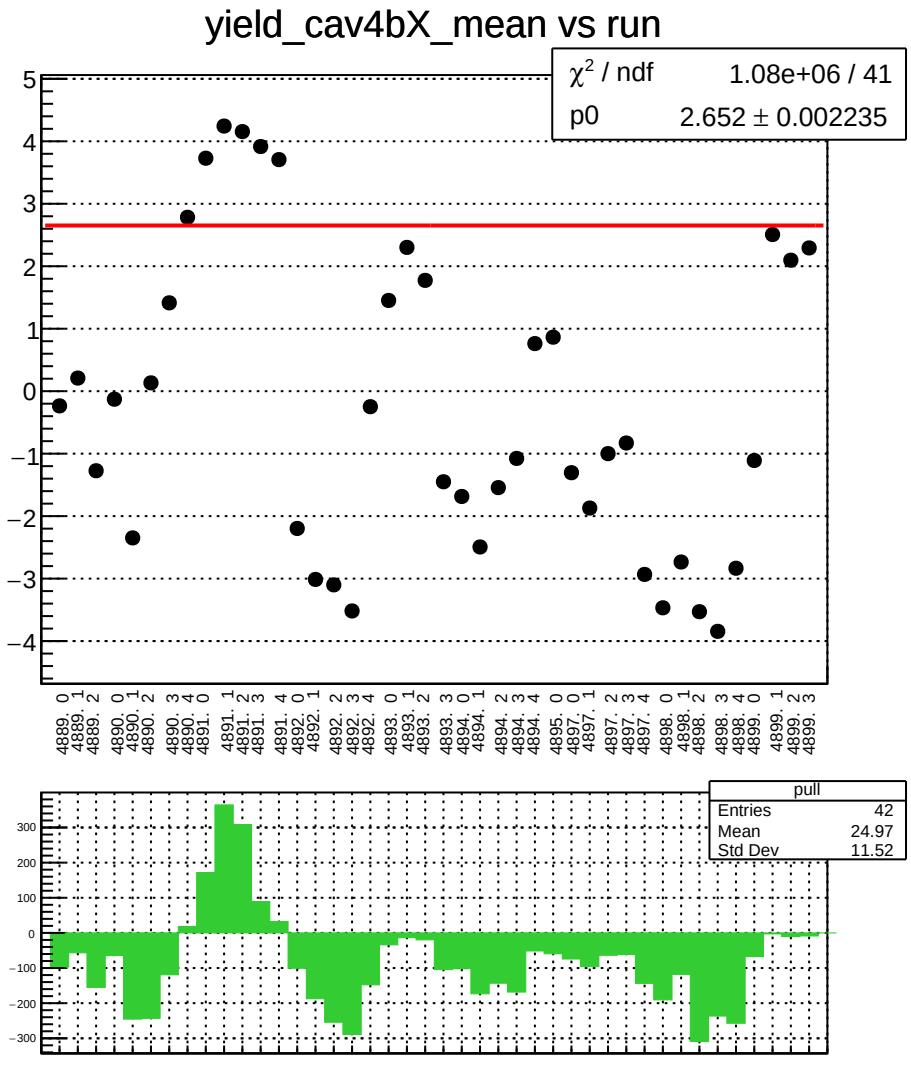

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 50.65 / 41
p0 128.5 ± 73.85
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 12.96
Std Dev 16.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

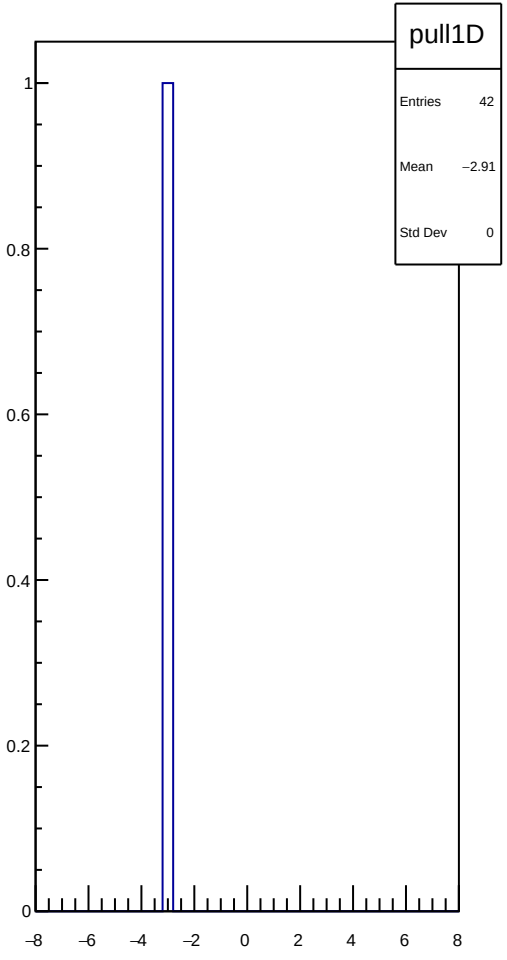

pull1D
Entries 42
Mean −0.07709
Std Dev 1.095
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

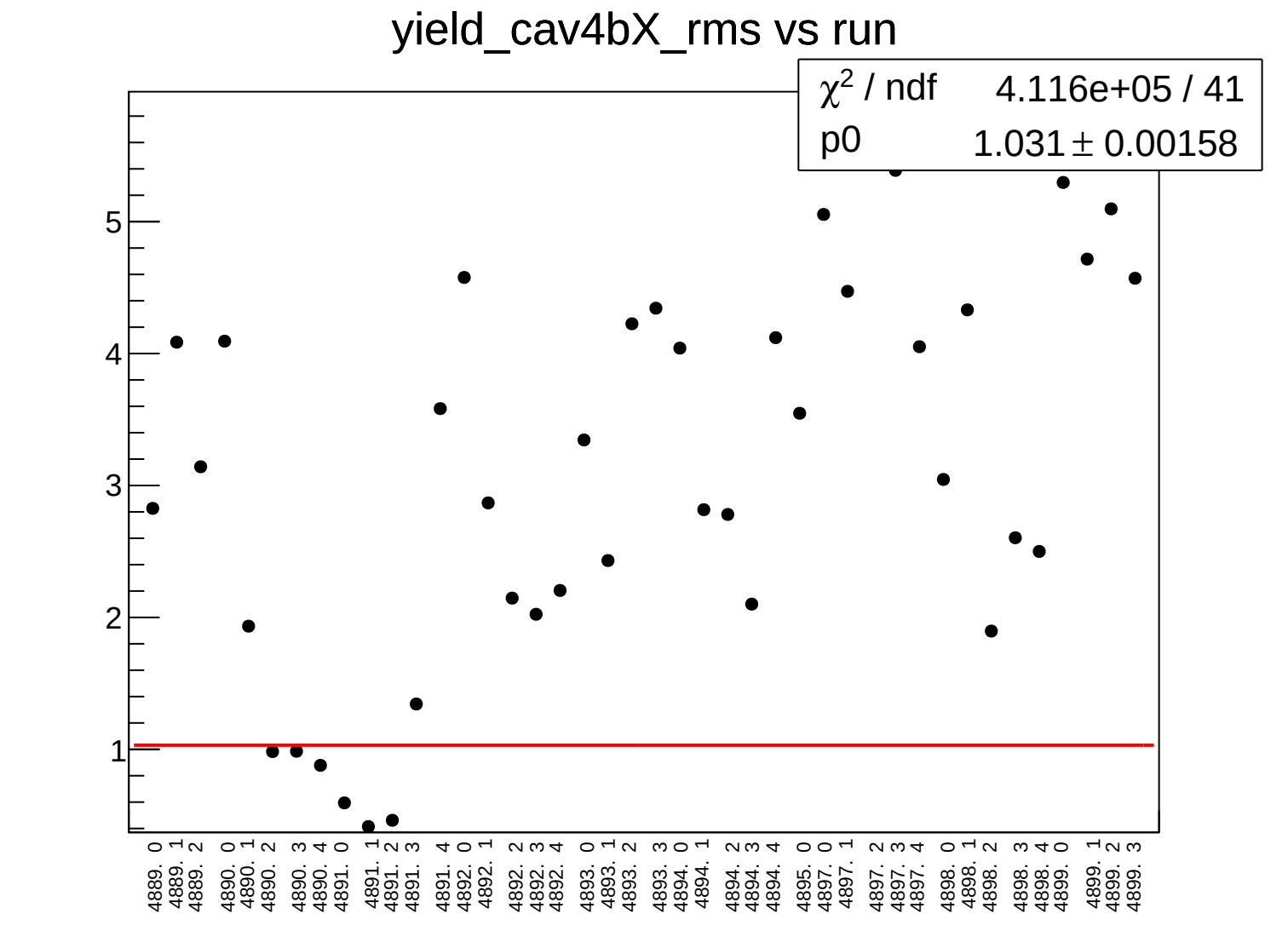

bcm_dg_us_ds_dd_rms vs run
χ^2 / ndf 1.343e+05 / 41
p0 43.79 ± 0.05222
90
80
70
60
50
40
30
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

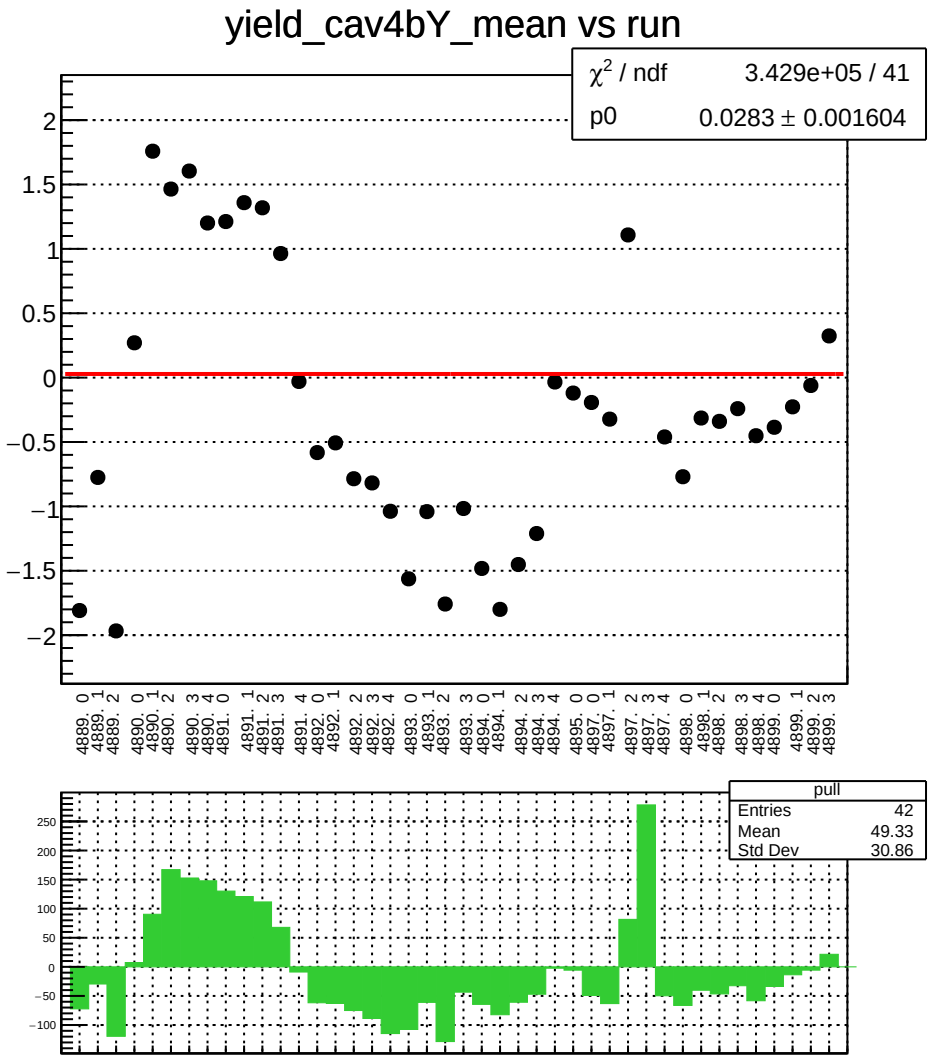

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 58.3 / 41
p0 46.35 ± 61.59
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −1259
Std Dev 1293
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.0006005
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

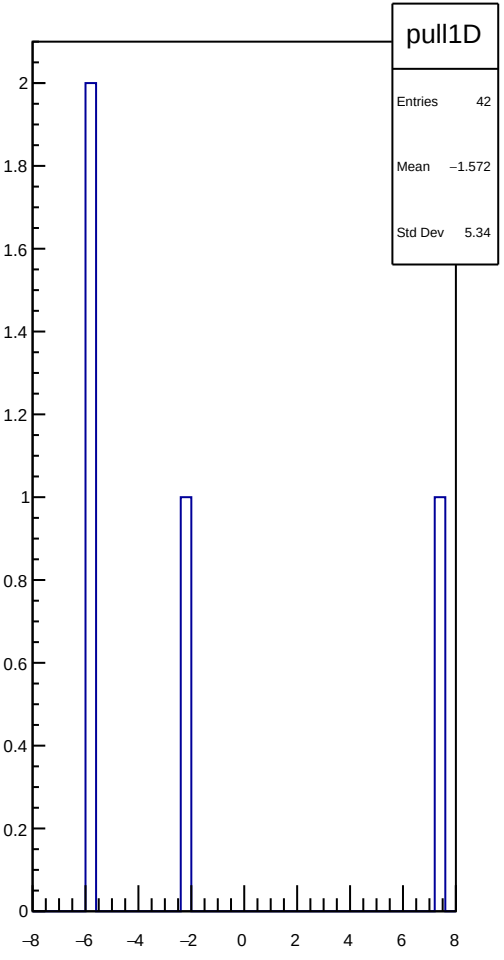

bcm_dg_ds_ds_dd_rms vs run
χ^2 / ndf 2.146e+05 / 41
p0 34.37 ± 0.04355
90
80
70
60
50
40
30
20
10
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

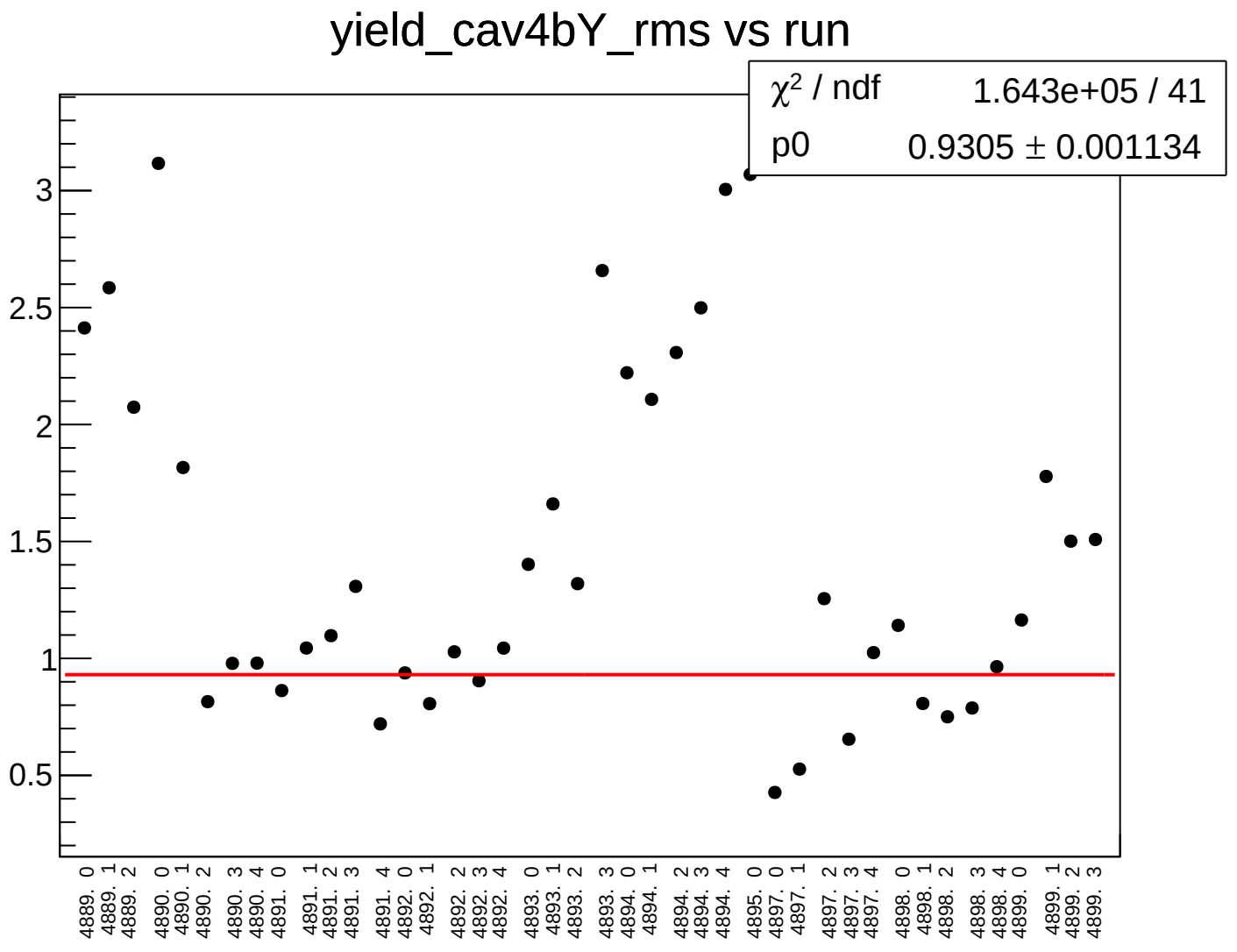

yield_cav4bX_mean vs run
χ² / ndf 1.08e+06 / 41
p0 2.652 ± 0.002235
pull
Entries 42
Mean 24.97
Std Dev 11.52

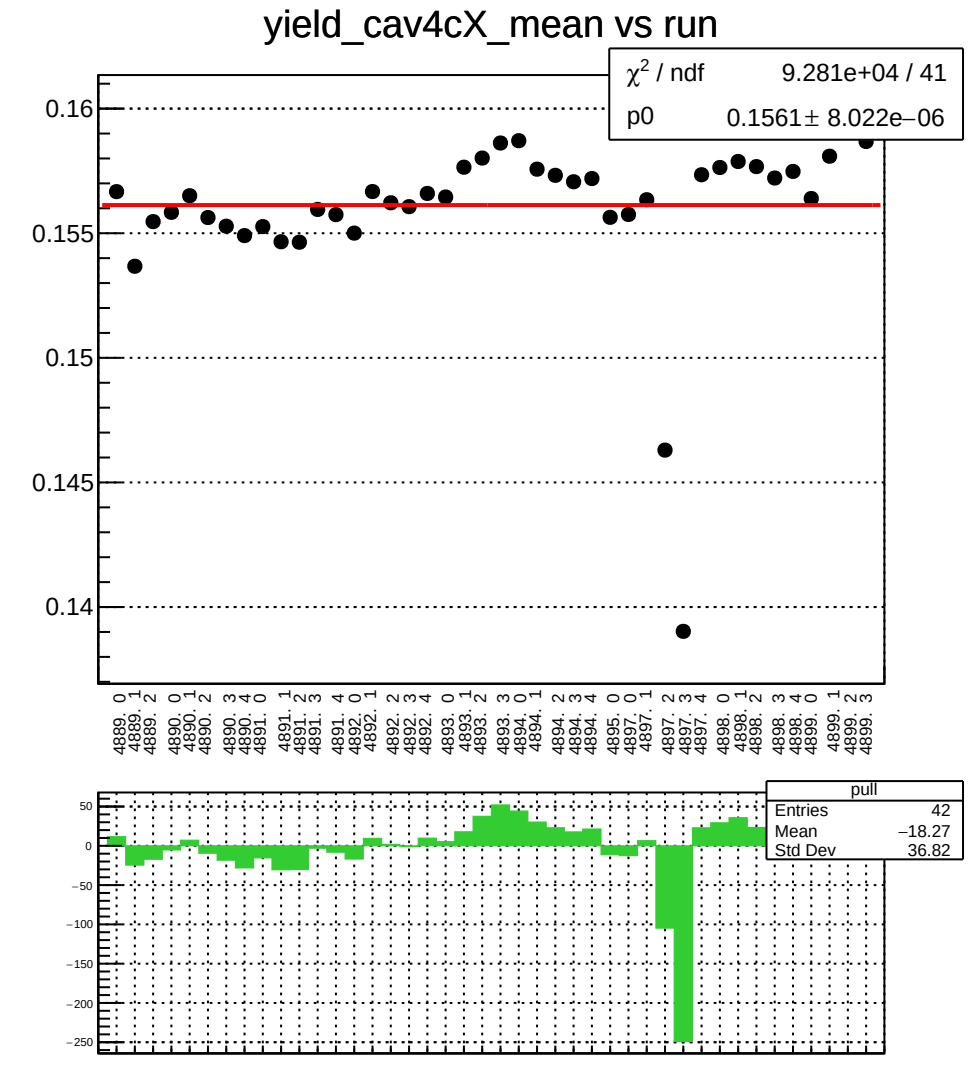

pull1D
Entries 42
Mean −2.91
Std Dev 0

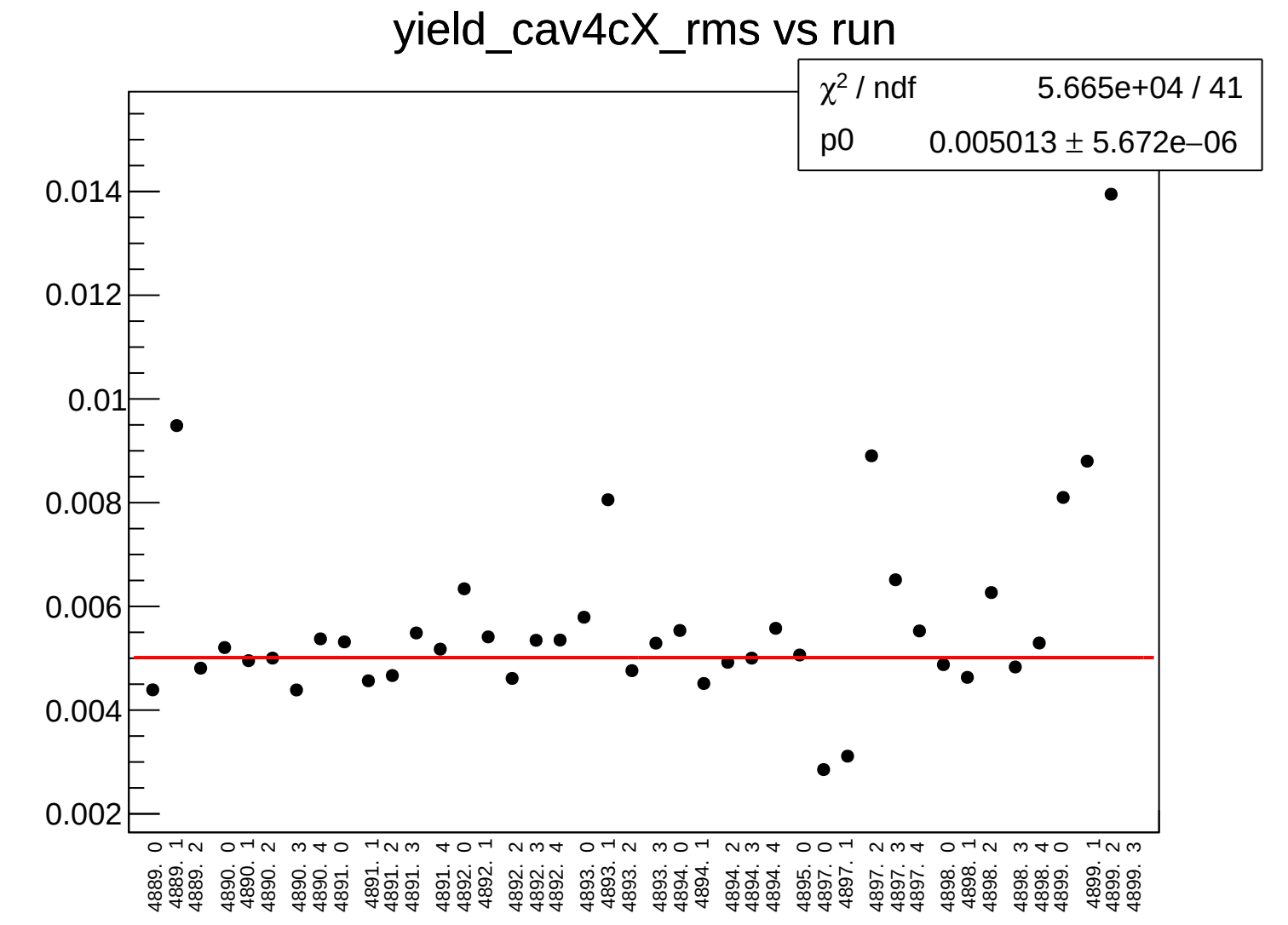

yield_cav4bX_rms vs run
χ^2 / ndf 4.116e+05 / 41
p0 1.031 ± 0.00158
5
4
3
2
1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

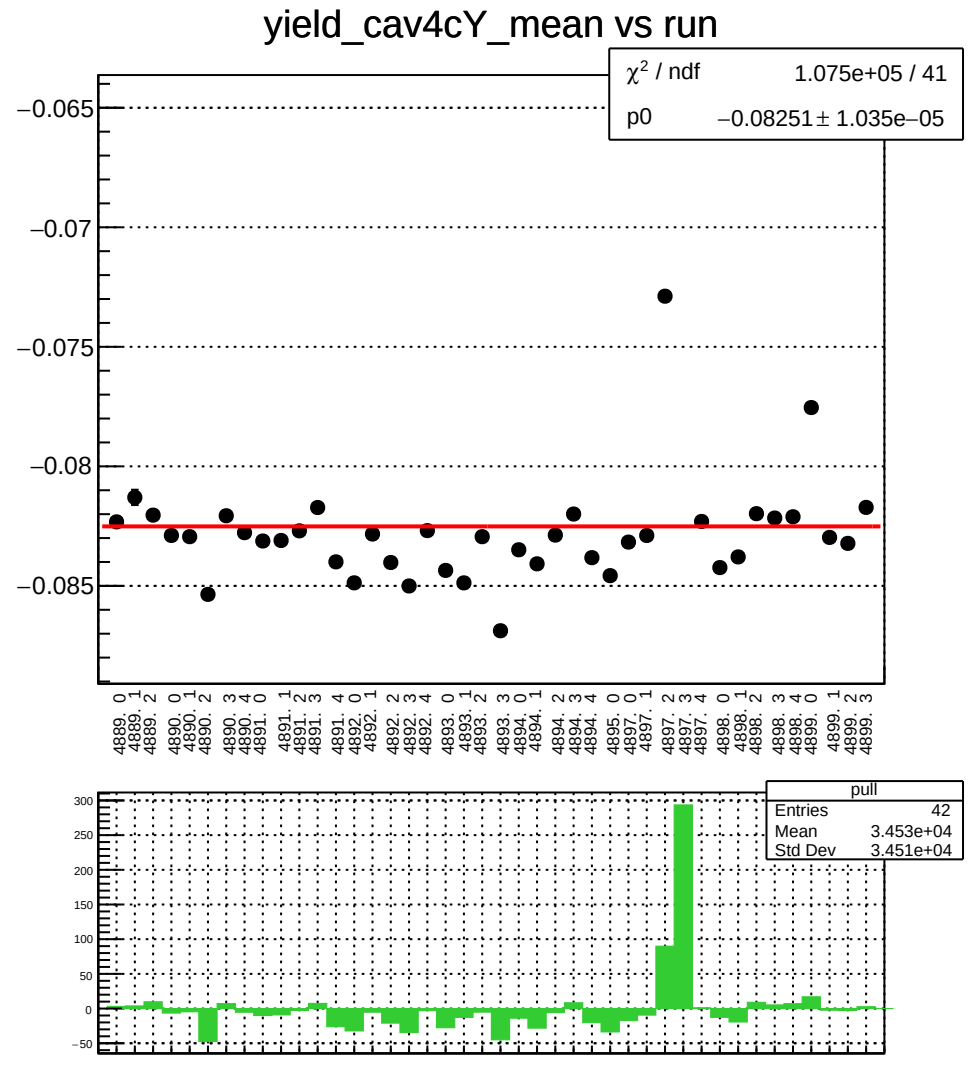

yield_cav4bY_mean vs run
χ² / ndf 3.429e+05 / 41
p0 0.0283 ± 0.001604
pull
Entries 42
Mean 49.33
Std Dev 30.86

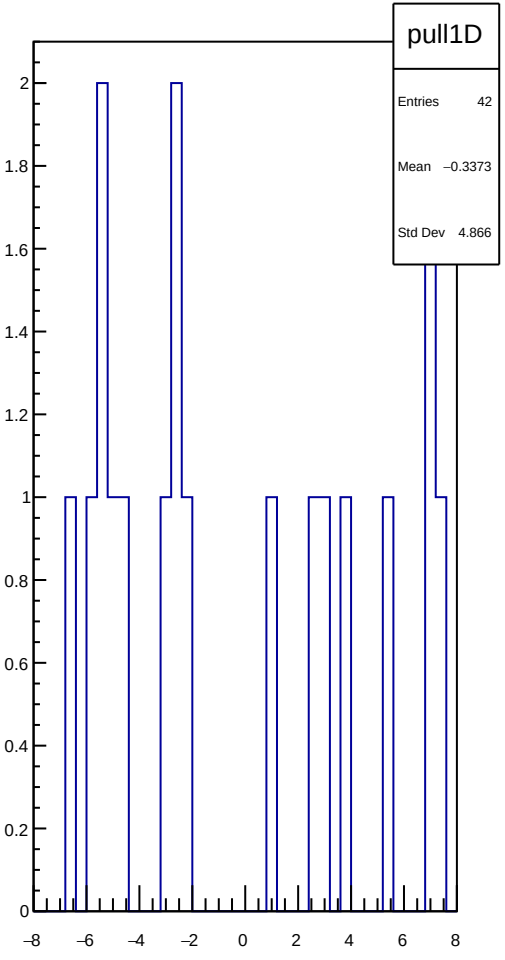

pull1D
Entries 42
Mean −1.572
Std Dev 5.34

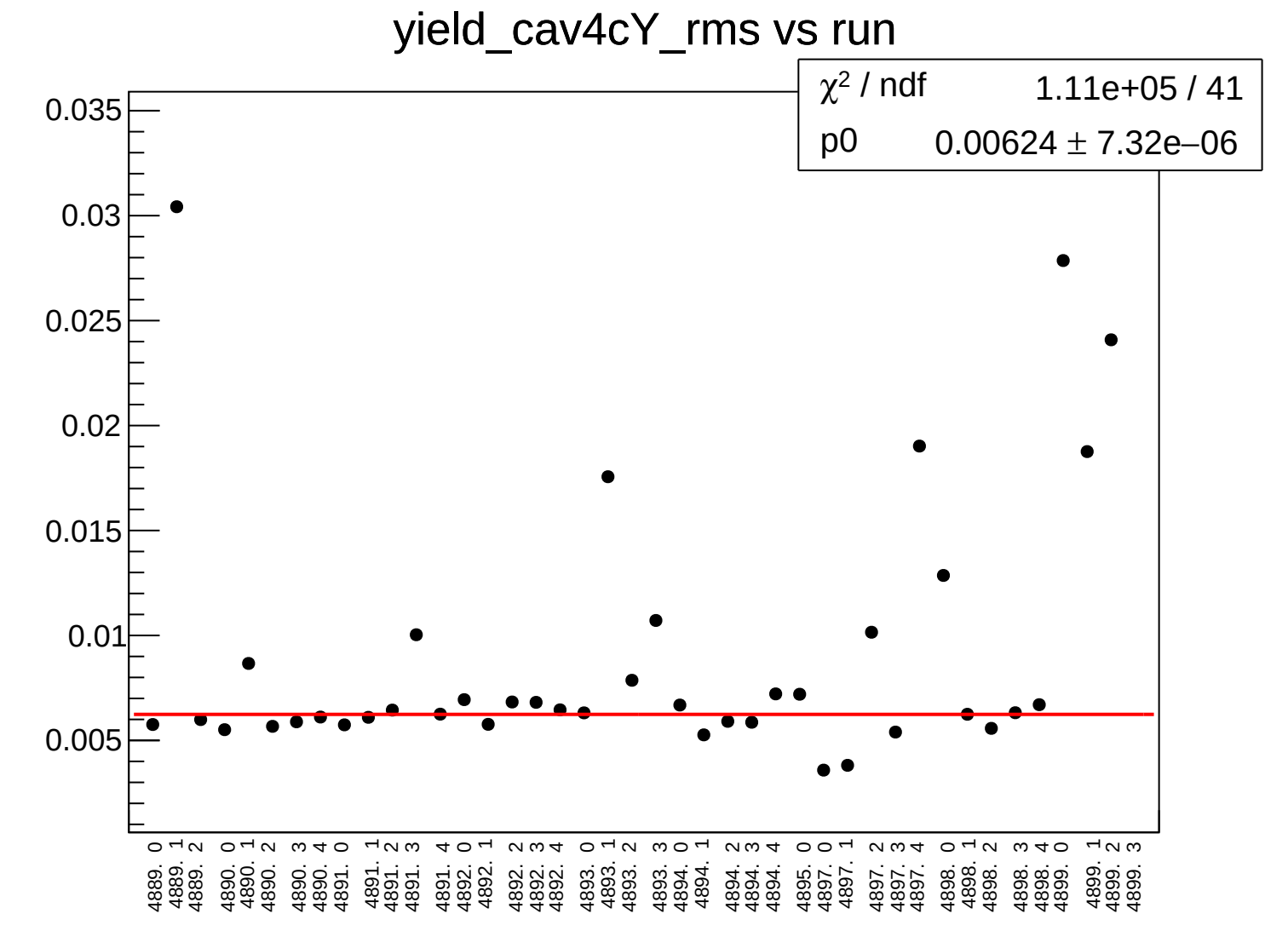

yield_cav4bY_rms vs run
χ² / ndf 1.643e+05 / 41
p0 0.9305 ± 0.001134
3
2.5
2
1.5
1
0.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

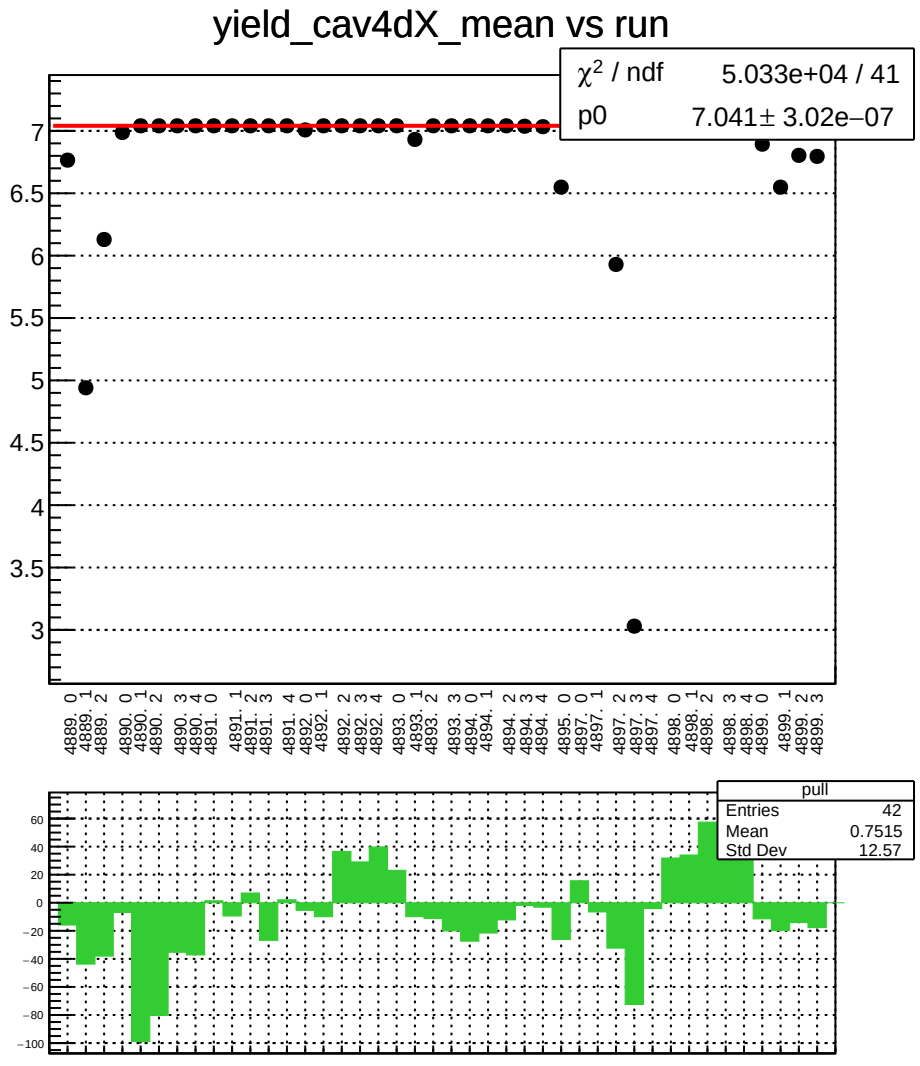

yield_cav4cX_mean vs run
χ² / ndf 9.281e+04 / 41
p0 0.1561 ± 8.022e−06
0.16
0.155
0.15
0.145
0.14
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −18.27
Std Dev 36.82
50
0
−50
−100
−150
−200
−250
pull1D
Entries 42
Mean 1.816
Std Dev 4.298
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

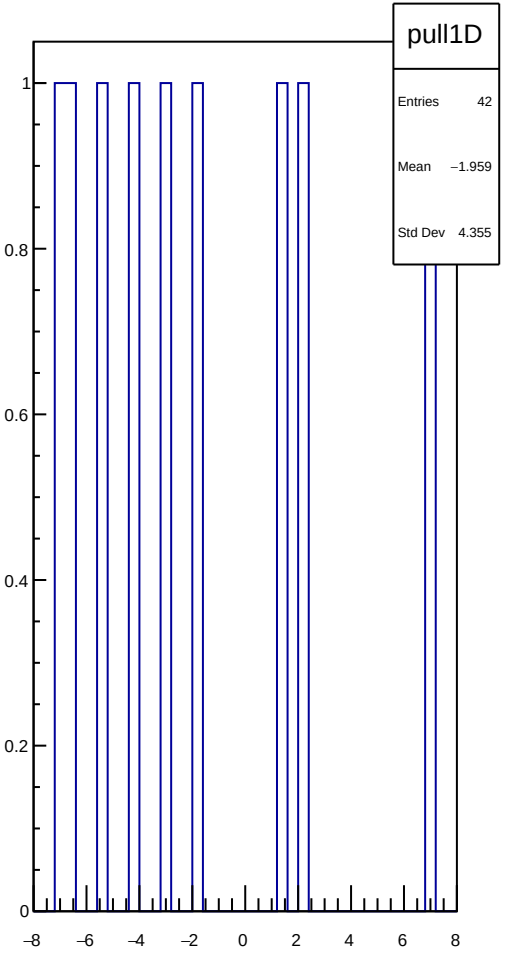

yield_cav4cX_rms vs run
χ² / ndf 5.665e+04 / 41
p0 0.005013 ± 5.672e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

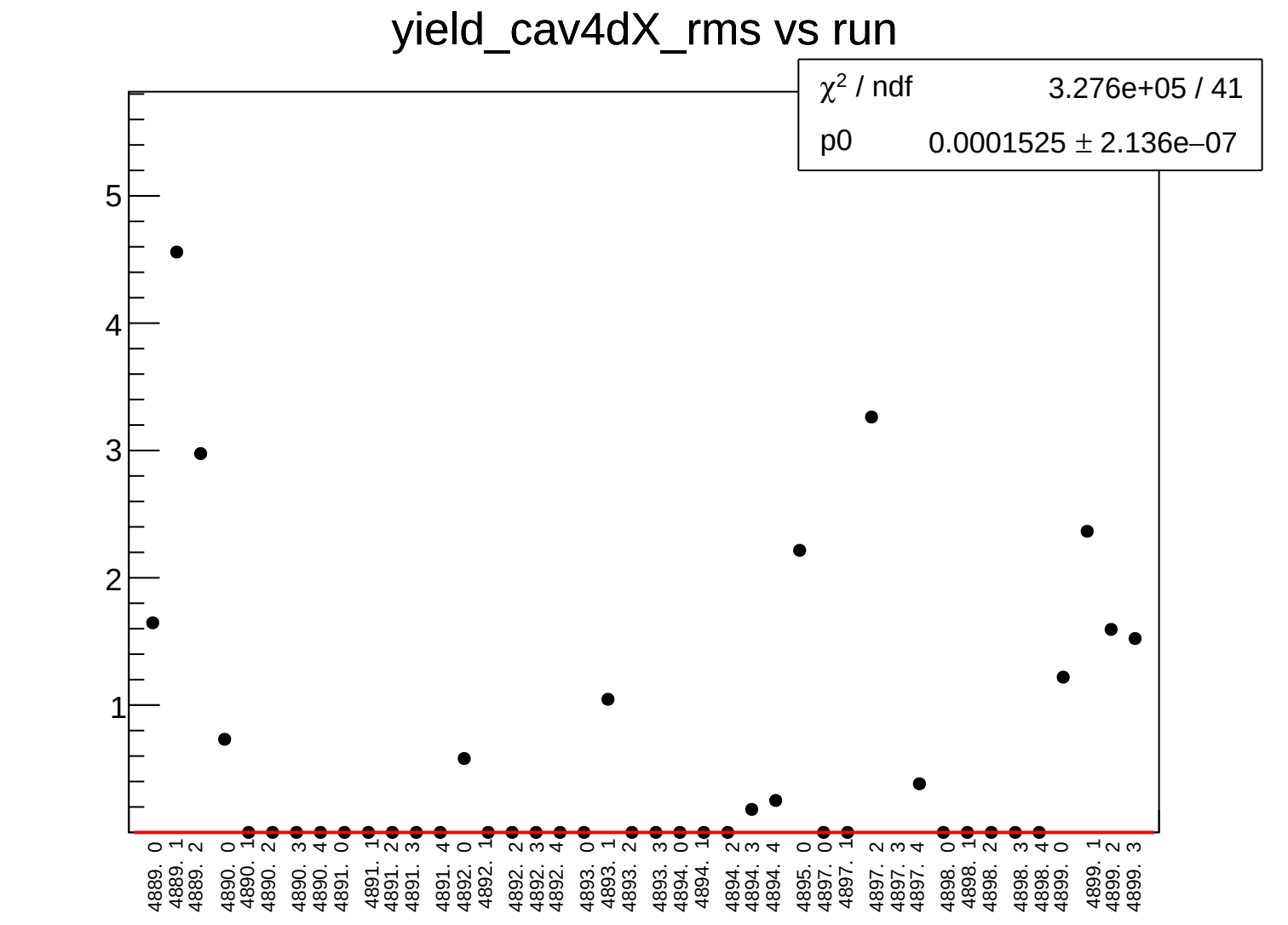

yield_cav4cY_mean vs run
χ² / ndf 1.075e+05 / 41
p0 −0.08251 ± 1.035e−05
−0.065
−0.07
−0.075
−0.08
−0.085
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 3.453e+04
Std Dev 3.451e+04
300
250
200
150
100
50
0
−50

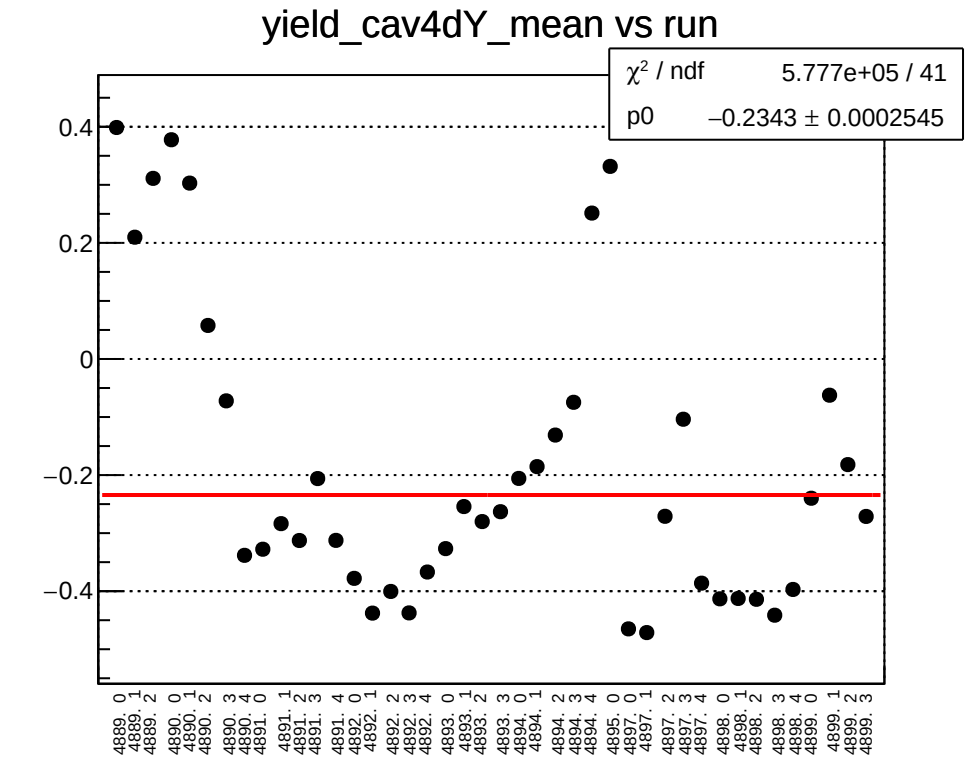

pull1D
Entries 42
Mean −0.3373
Std Dev 4.866
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

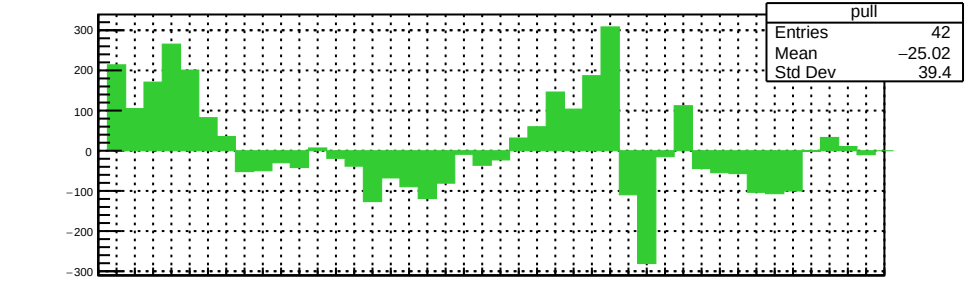

yield_cav4cY_rms vs run
χ² / ndf 1.11e+05 / 41
p0 0.00624 ± 7.32e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

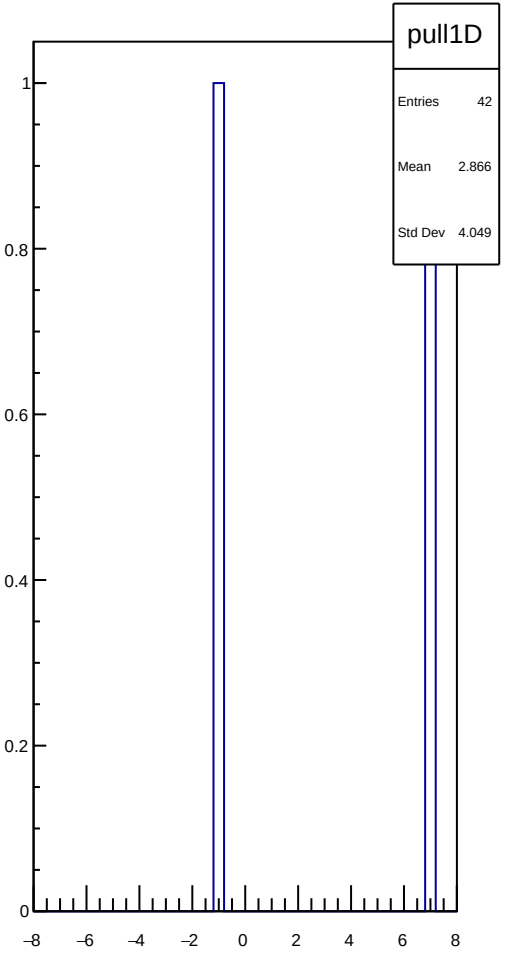

yield_cav4dX_mean vs run
χ² / ndf 5.033e+04 / 41
p0 7.041± 3.02e−07
pull
Entries 42
Mean 0.7515
Std Dev 12.57

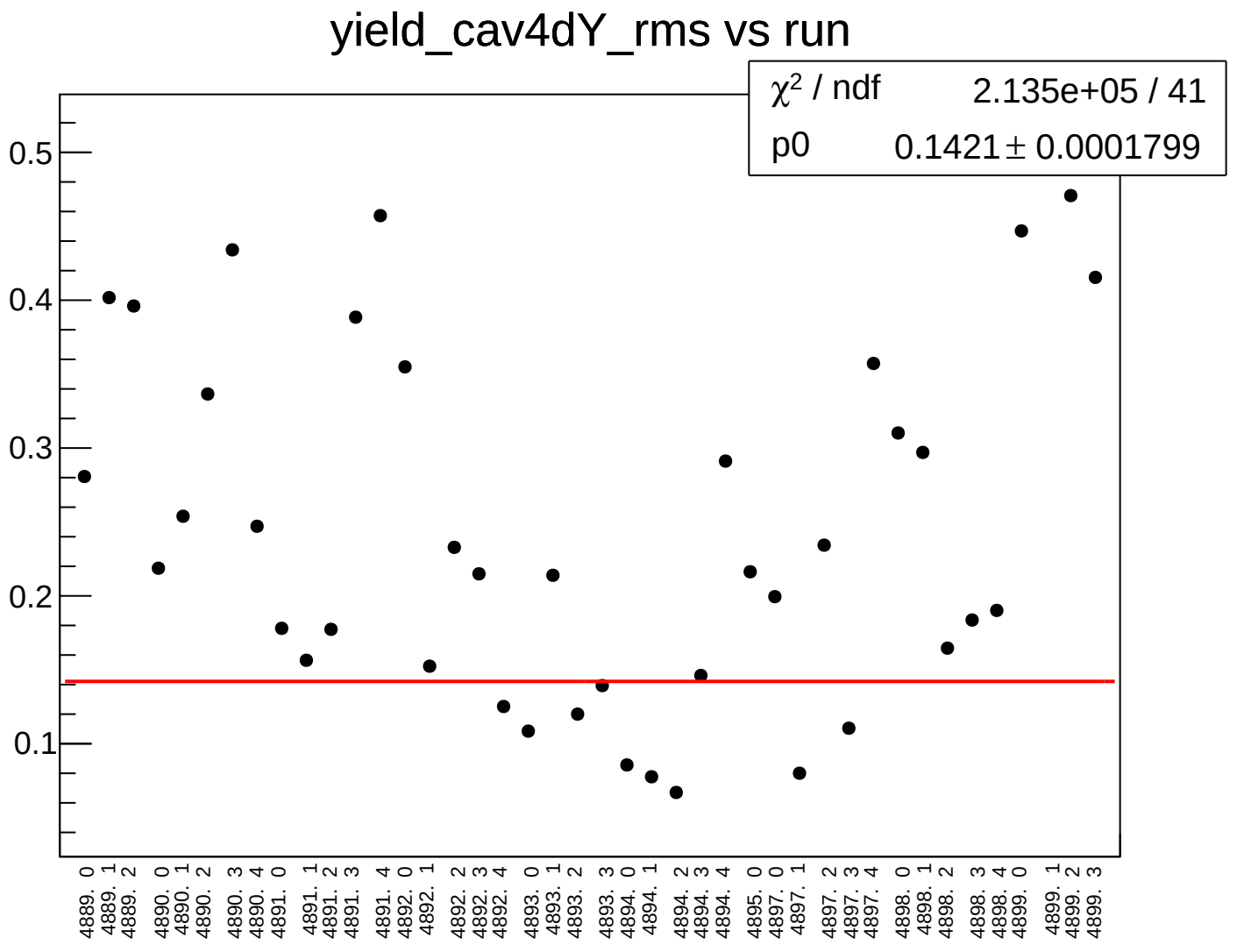

pull1D
Entries 42
Mean −1.959
Std Dev 4.355

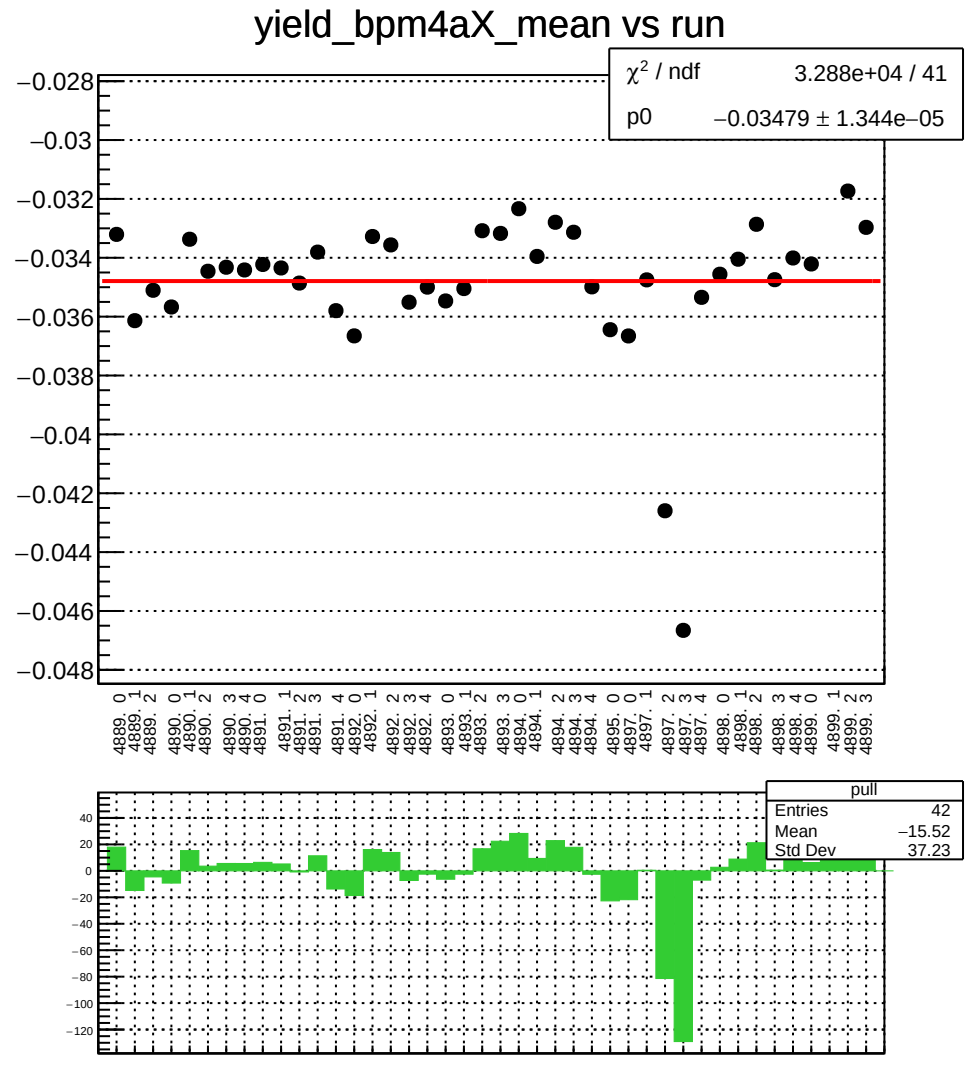

yield_cav4dX_rms vs run
χ² / ndf 3.276e+05 / 41
p0 0.0001525 ± 2.136e−07
5
4
3
2
1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

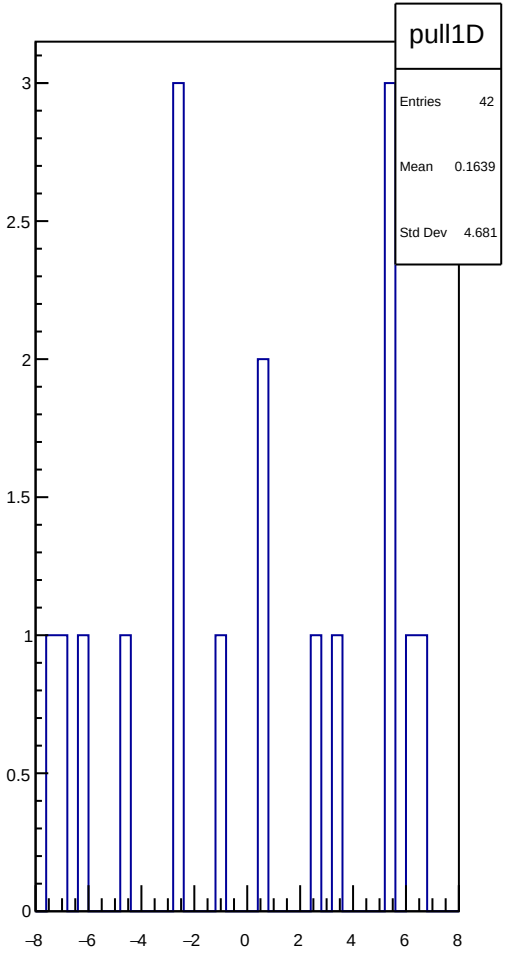

yield_cav4dY_mean vs run
χ² / ndf 5.777e+05 / 41
p0 −0.2343 ± 0.0002545
0.4
0.2
0
−0.2
−0.4
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

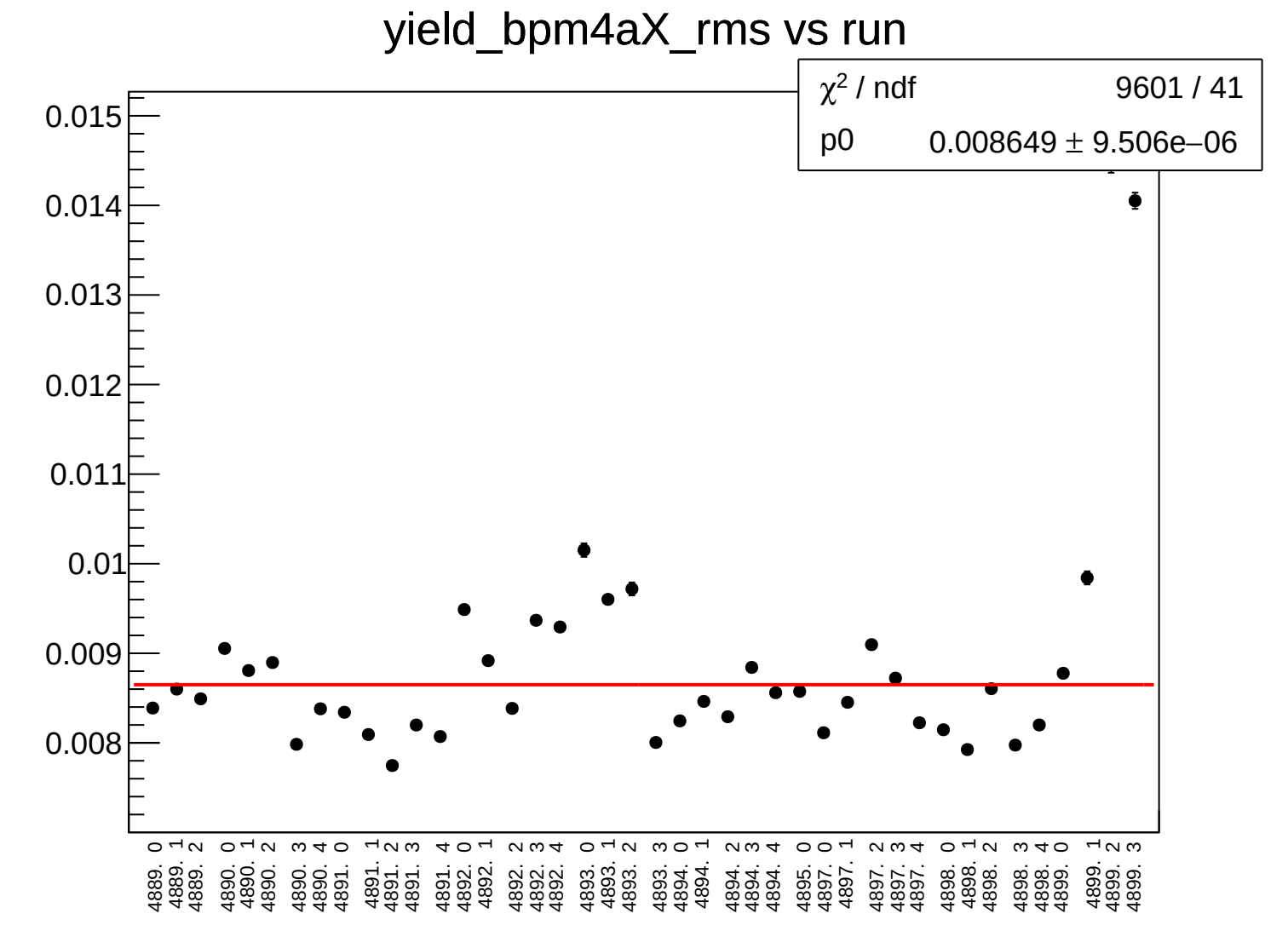

pull
Entries 42
Mean −25.02
Std Dev 39.4
300
200
100
0
−100
−200
−300

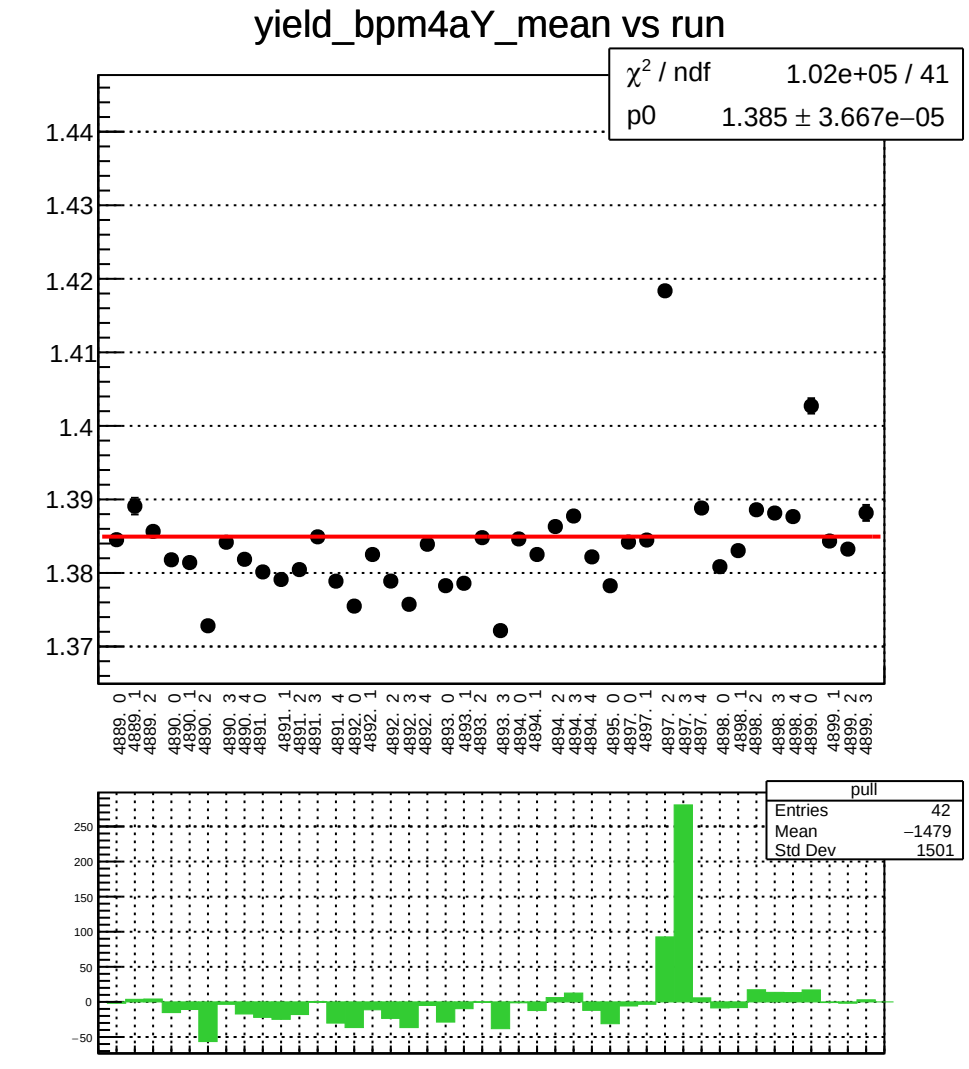

pull1D
Entries 42
Mean 2.866
Std Dev 4.049
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

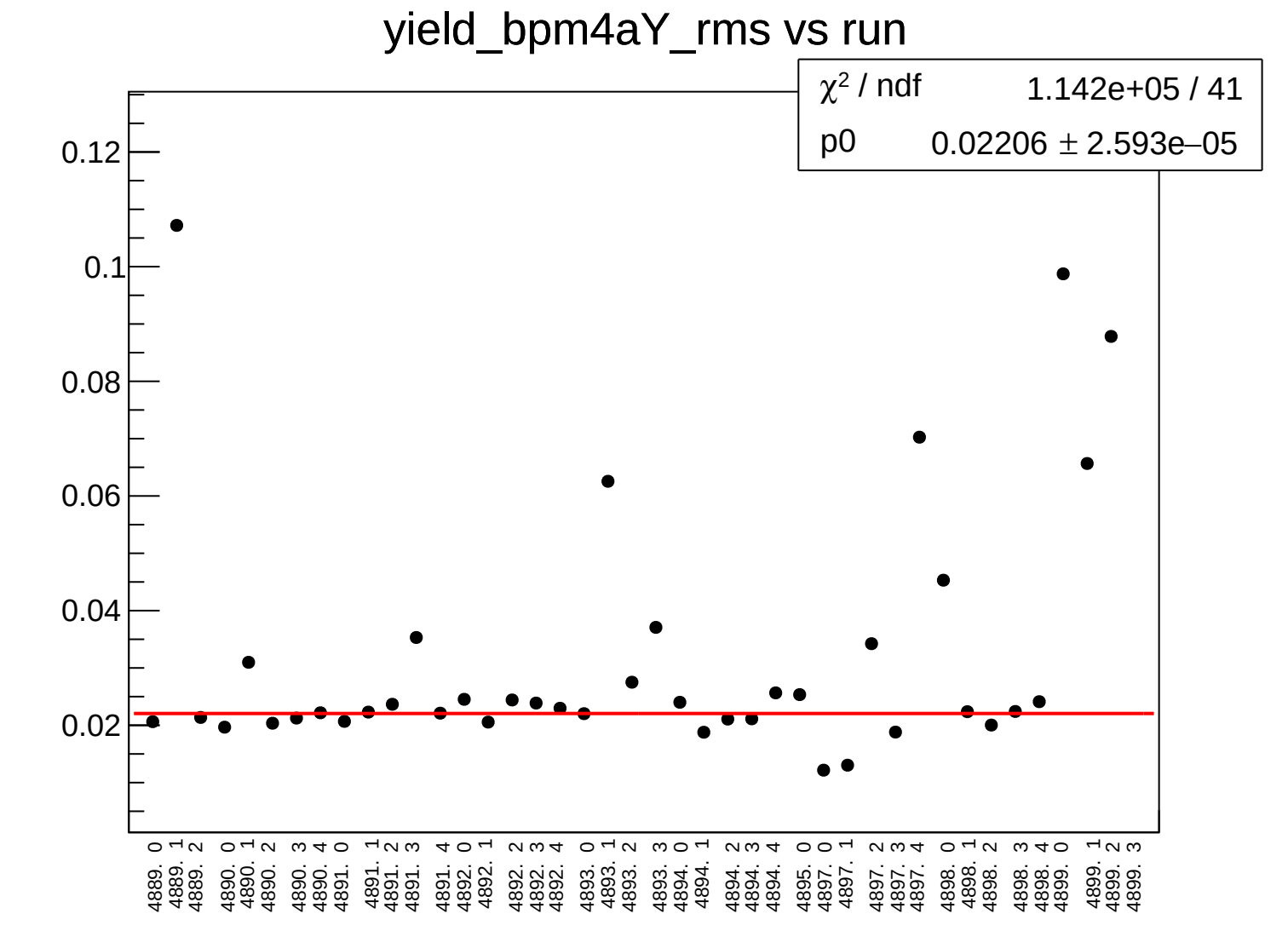

yield_cav4dY_rms vs run
χ² / ndf 2.135e+05 / 41
p0 0.1421 ± 0.0001799
0.5
0.4
0.3
0.2
0.1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

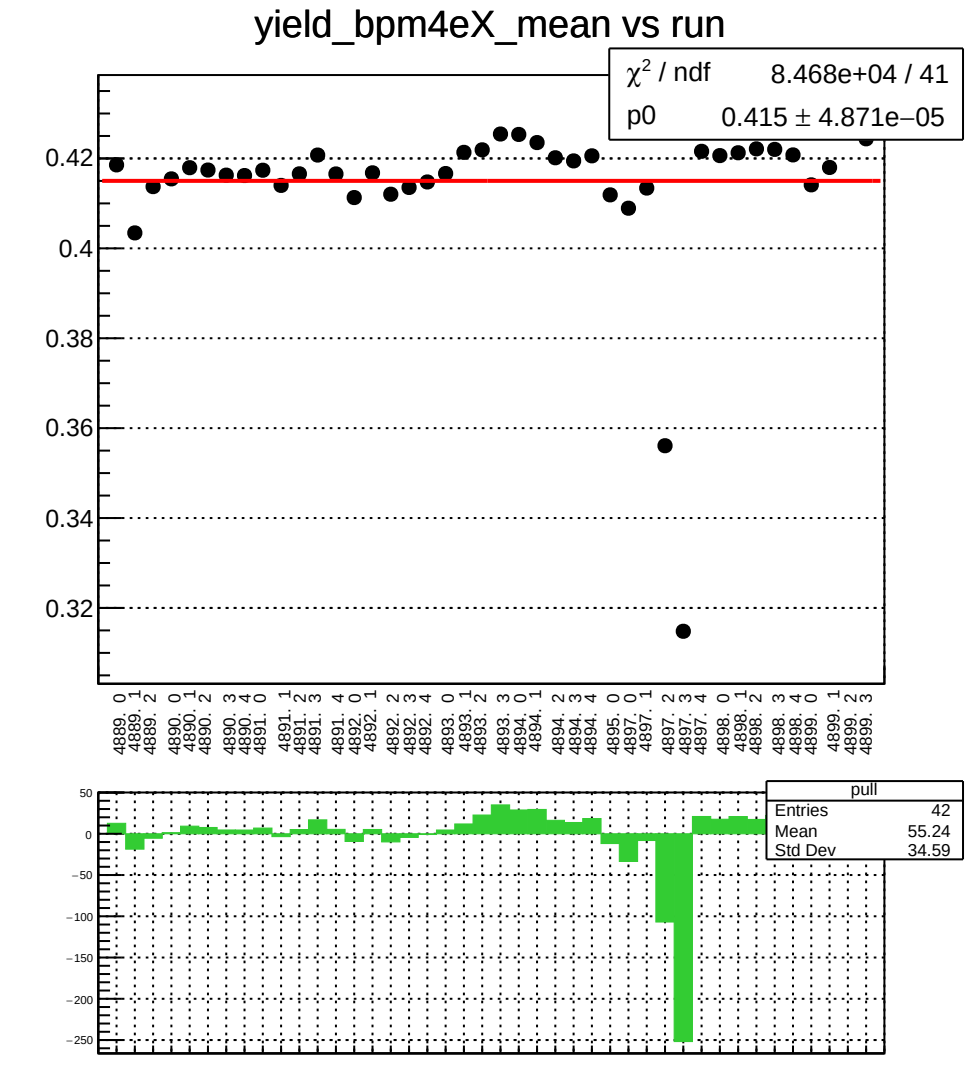

yield_bpm4aX_mean vs run
χ² / ndf 3.288e+04 / 41
p0 −0.03479 ± 1.344e−05
pull
Entries 42
Mean −15.52
Std Dev 37.23

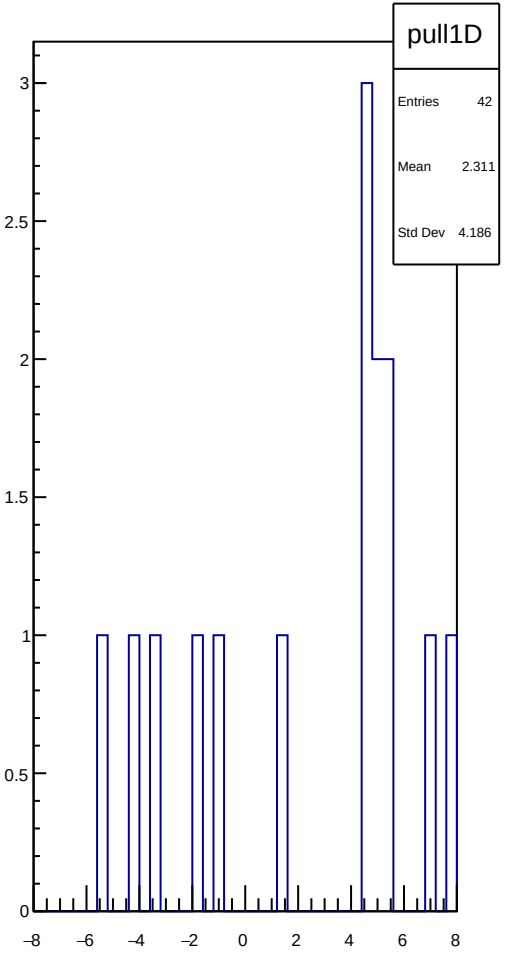

pull1D
Entries 42
Mean 0.1639
Std Dev 4.681

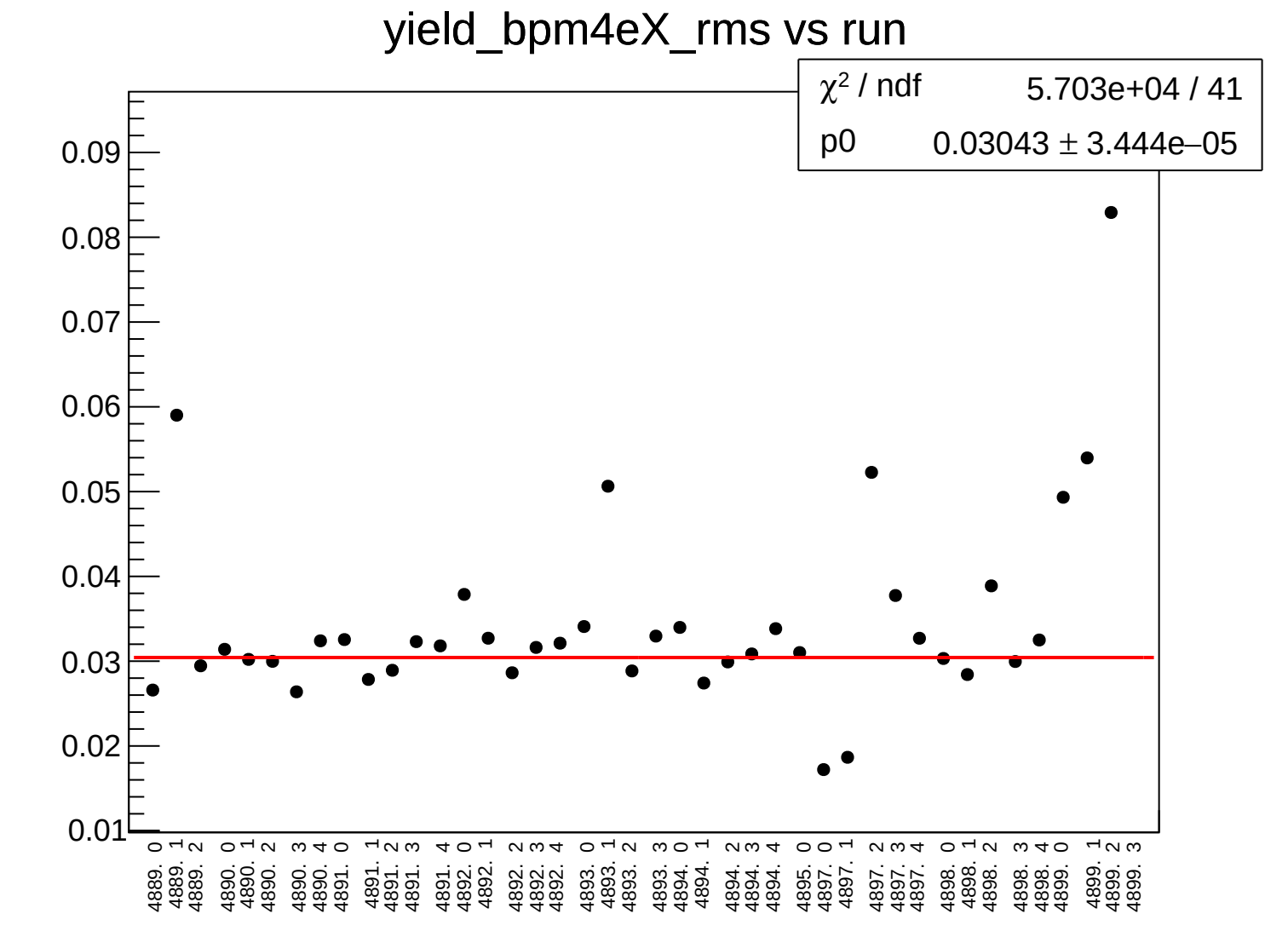

yield_bpm4aX_rms vs run
χ² / ndf 9601 / 41
p0 0.008649 ± 9.506e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

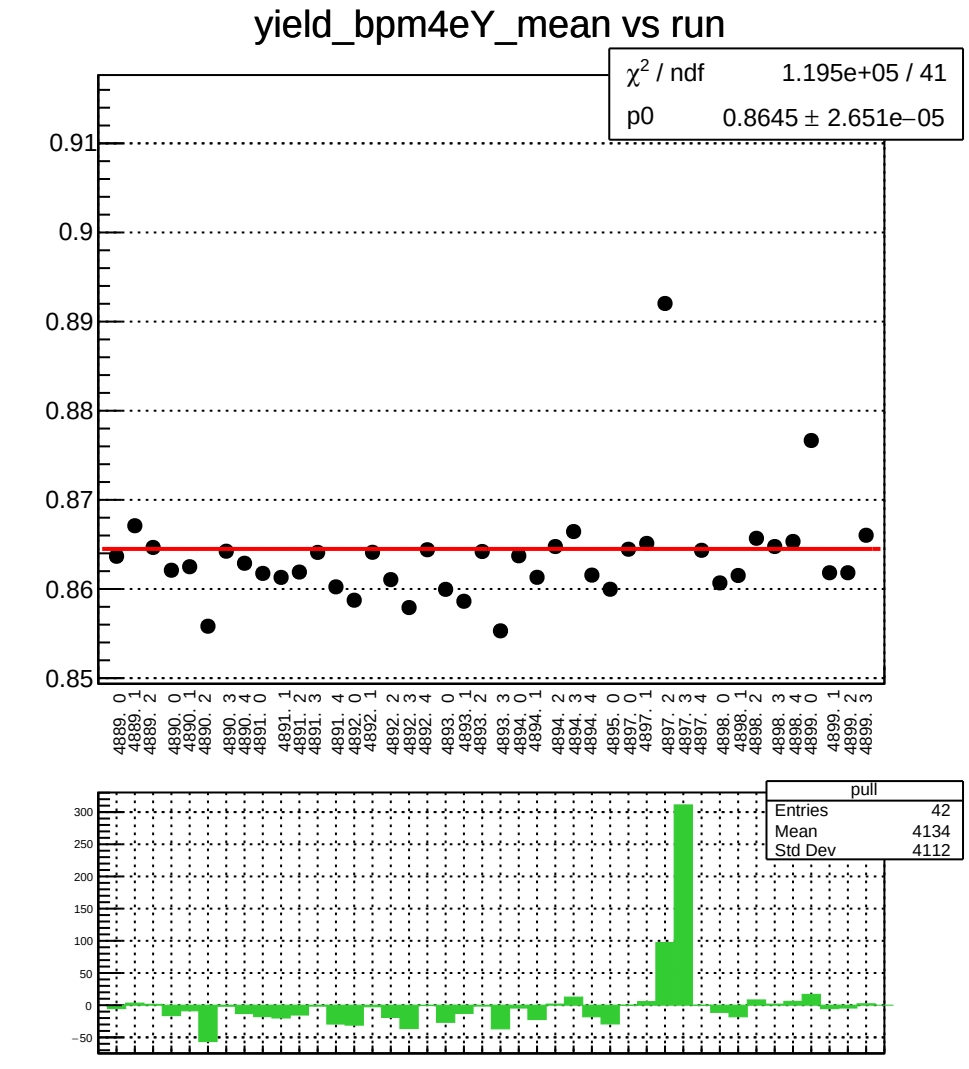

yield_bpm4aY_mean vs run
χ² / ndf 1.02e+05 / 41
p0 1.385 ± 3.667e−05
1.44
1.43
1.42
1.41
1.4
1.39
1.38
1.37
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −1479
Std Dev 1501
250
200
150
100
50
0
−50
pull1D
Entries 42
Mean −0.08969
Std Dev 3.67
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

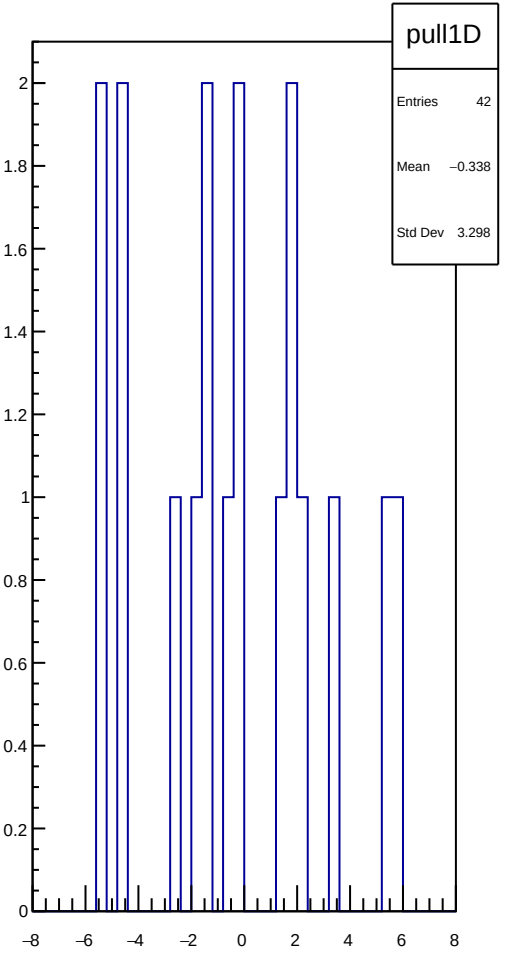

yield_bpm4aY_rms vs run
χ² / ndf 1.142e+05 / 41
p0 0.02206 ± 2.593e–05
0.12
0.1
0.08
0.06
0.04
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

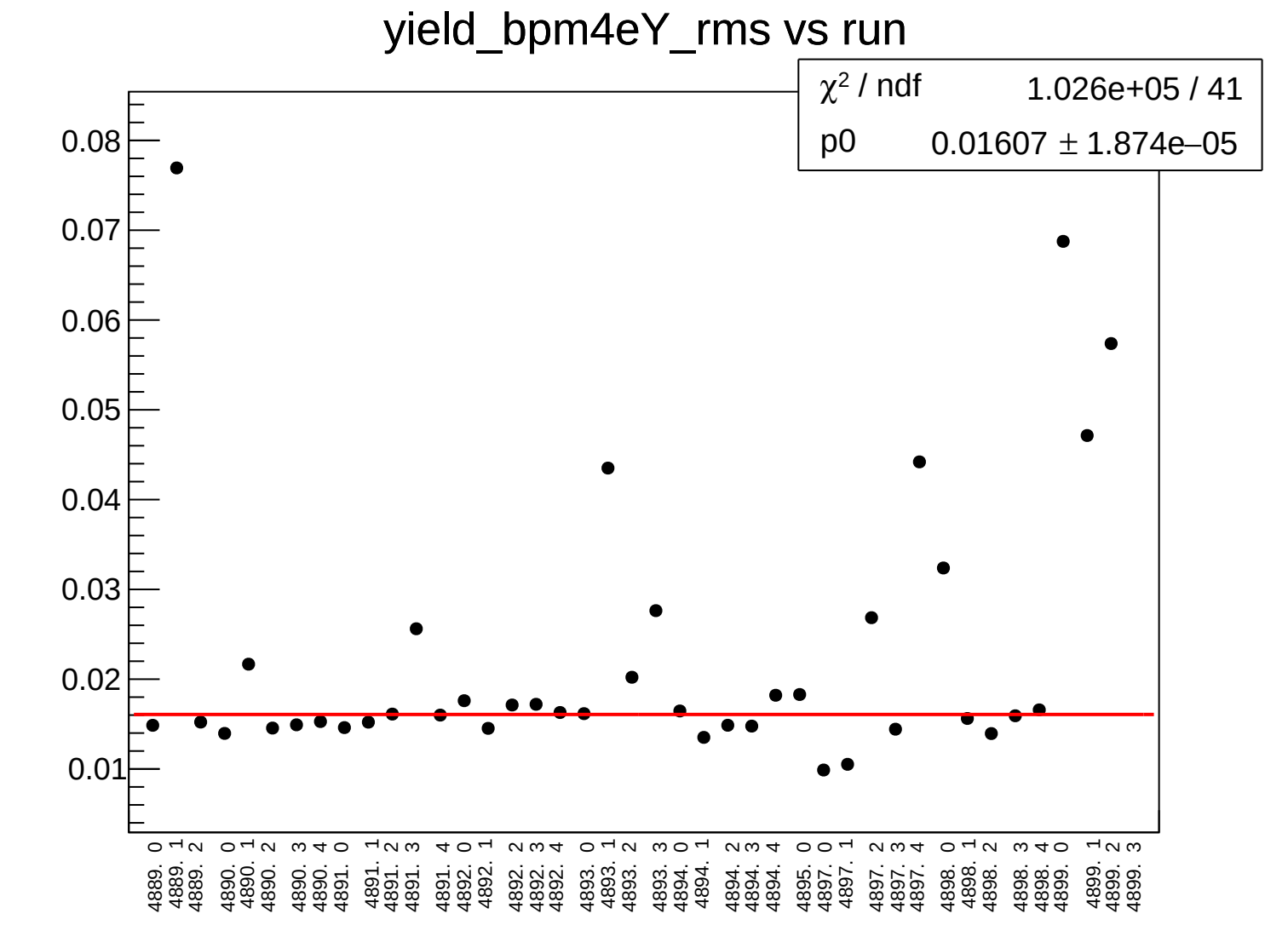

yield_bpm4eX_mean vs run
χ² / ndf 8.468e+04 / 41
p0 0.415 ± 4.871e−05
0.42
0.4
0.38
0.36
0.34
0.32
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
50
0
−50
−100
−150
−200
−250
pull
Entries 42
Mean 55.24
Std Dev 34.59

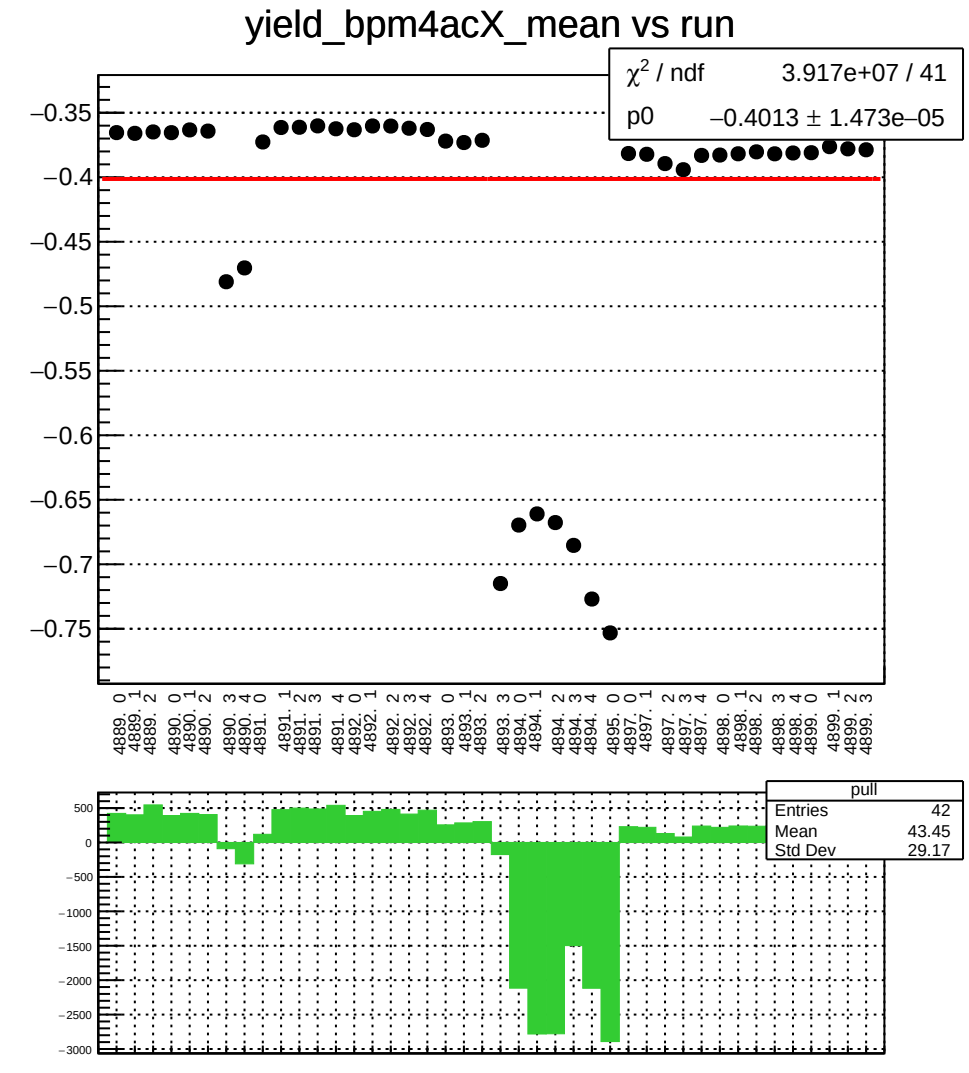

pull1D
Entries 42
Mean 2.311
Std Dev 4.186
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

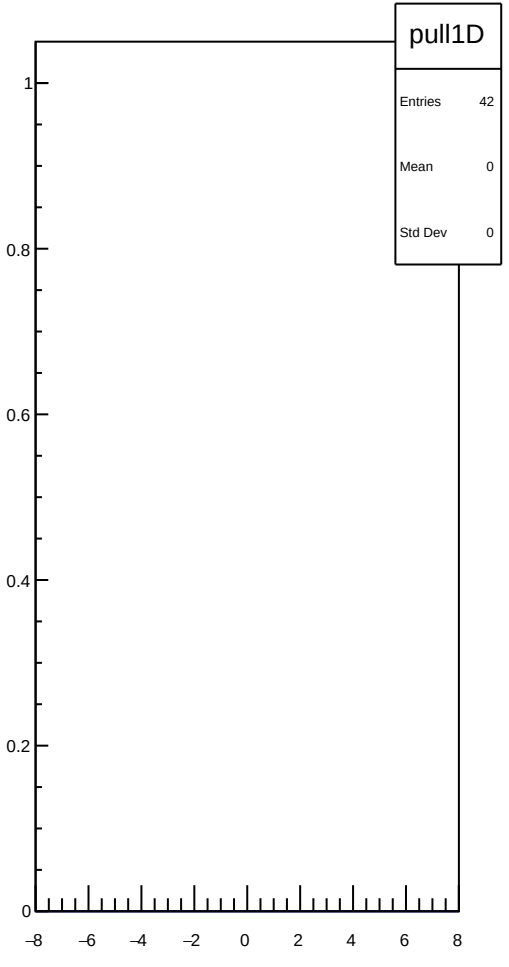

yield_bpm4eX_rms vs run
χ² / ndf 5.703e+04 / 41
p0 0.03043 ± 3.444e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

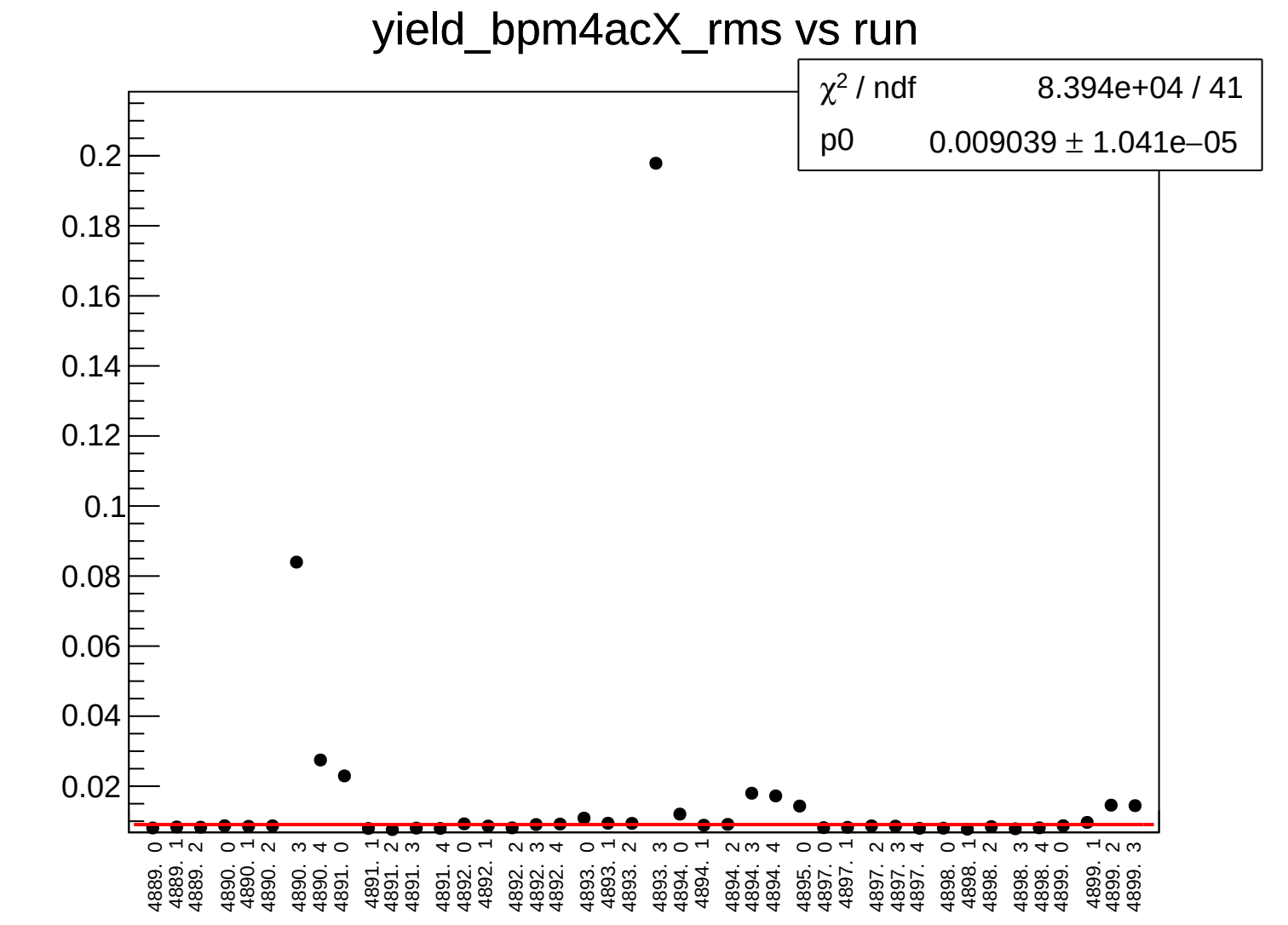

yield_bpm4eY_mean vs run
χ² / ndf 1.195e+05 / 41
p0 0.8645 ± 2.651e−05
0.91
0.9
0.89
0.88
0.87
0.86
0.85
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 4134
Std Dev 4112
300
250
200
150
100
50
0
−50

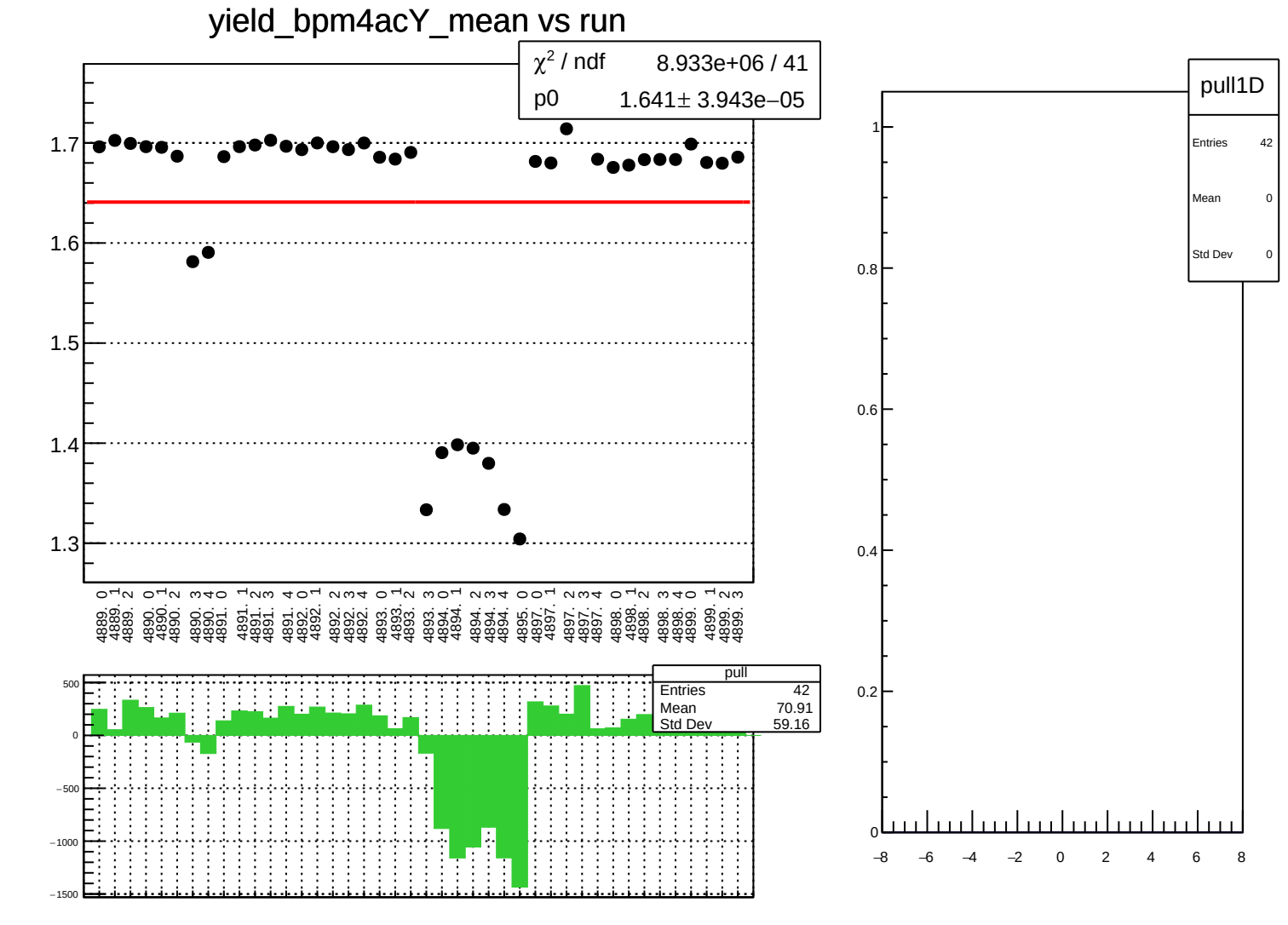

pull1D
Entries 42
Mean −0.338
Std Dev 3.298
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

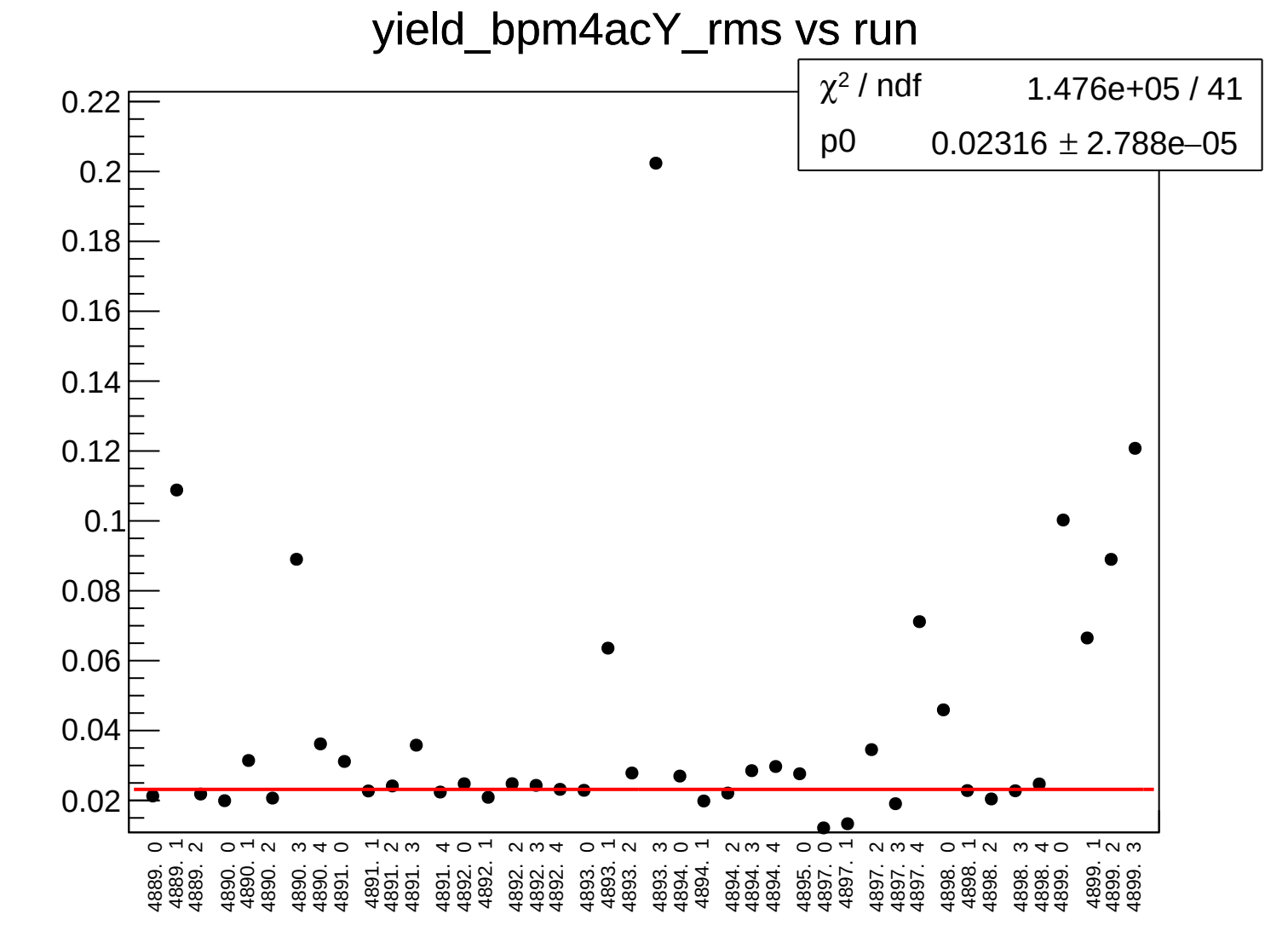

yield_bpm4eY_rms vs run
χ² / ndf 1.026e+05 / 41
p0 0.01607 ± 1.874e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

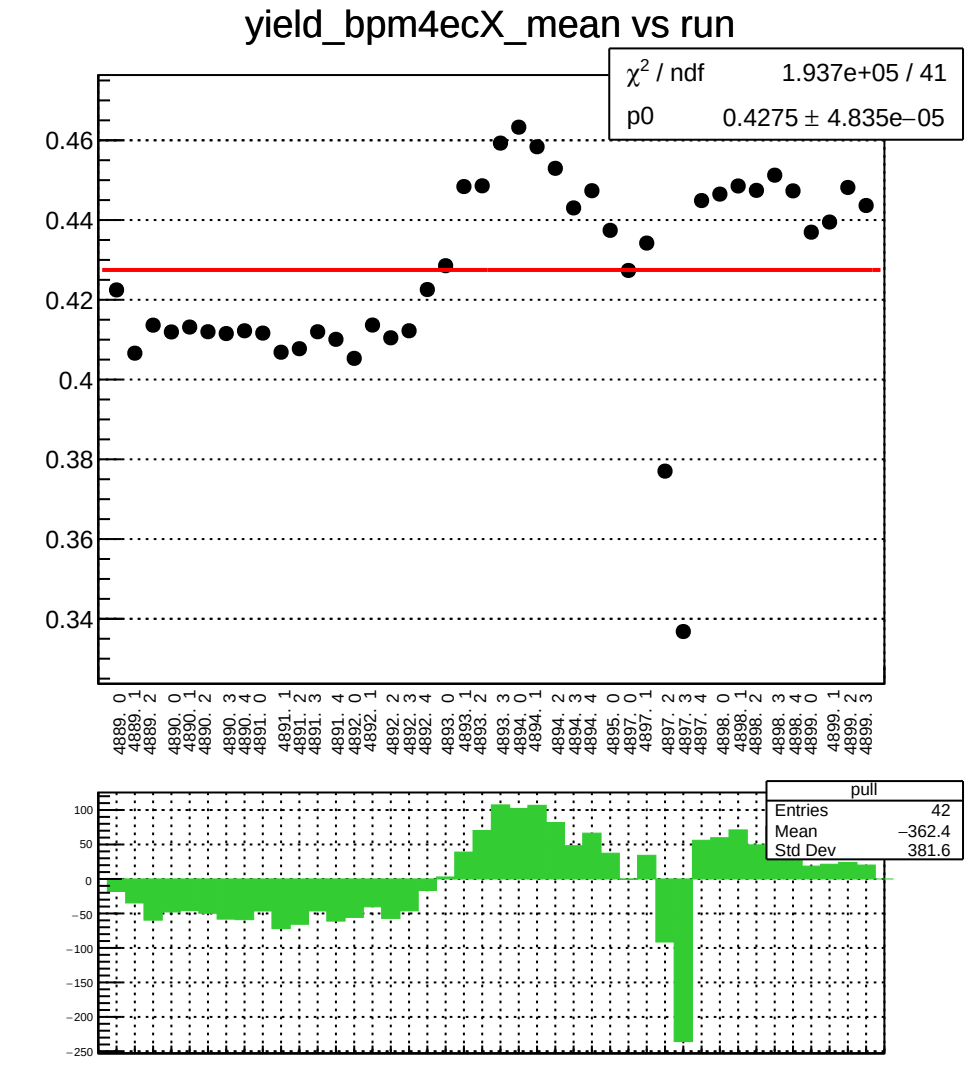

yield_bpm4acX_mean vs run
χ² / ndf 3.917e+07 / 41
p0 −0.4013 ± 1.473e−05
pull
Entries 42
Mean 43.45
Std Dev 29.17

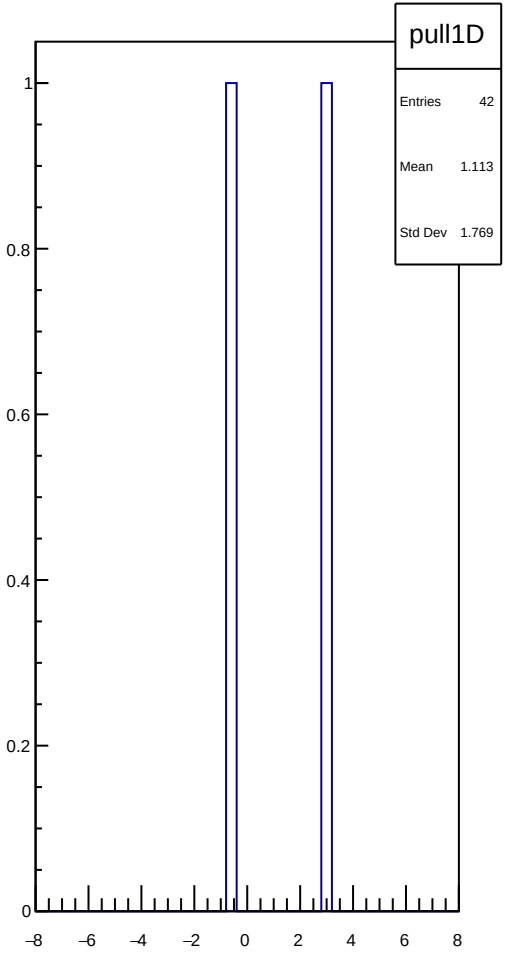

pull1D
Entries 42
Mean 0
Std Dev 0

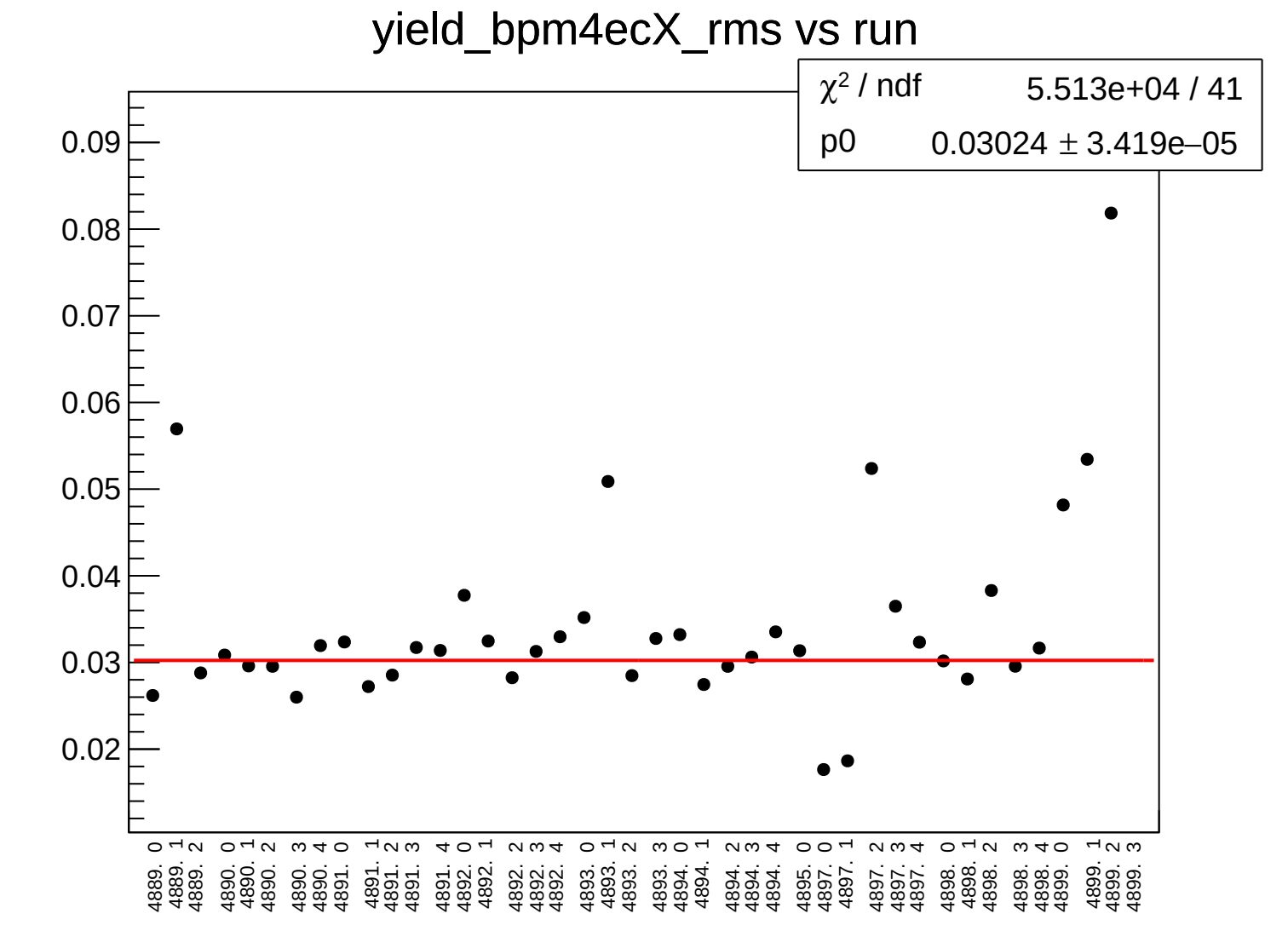

yield_bpm4acX_rms vs run
χ² / ndf 8.394e+04 / 41
p0 0.009039 ± 1.041e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

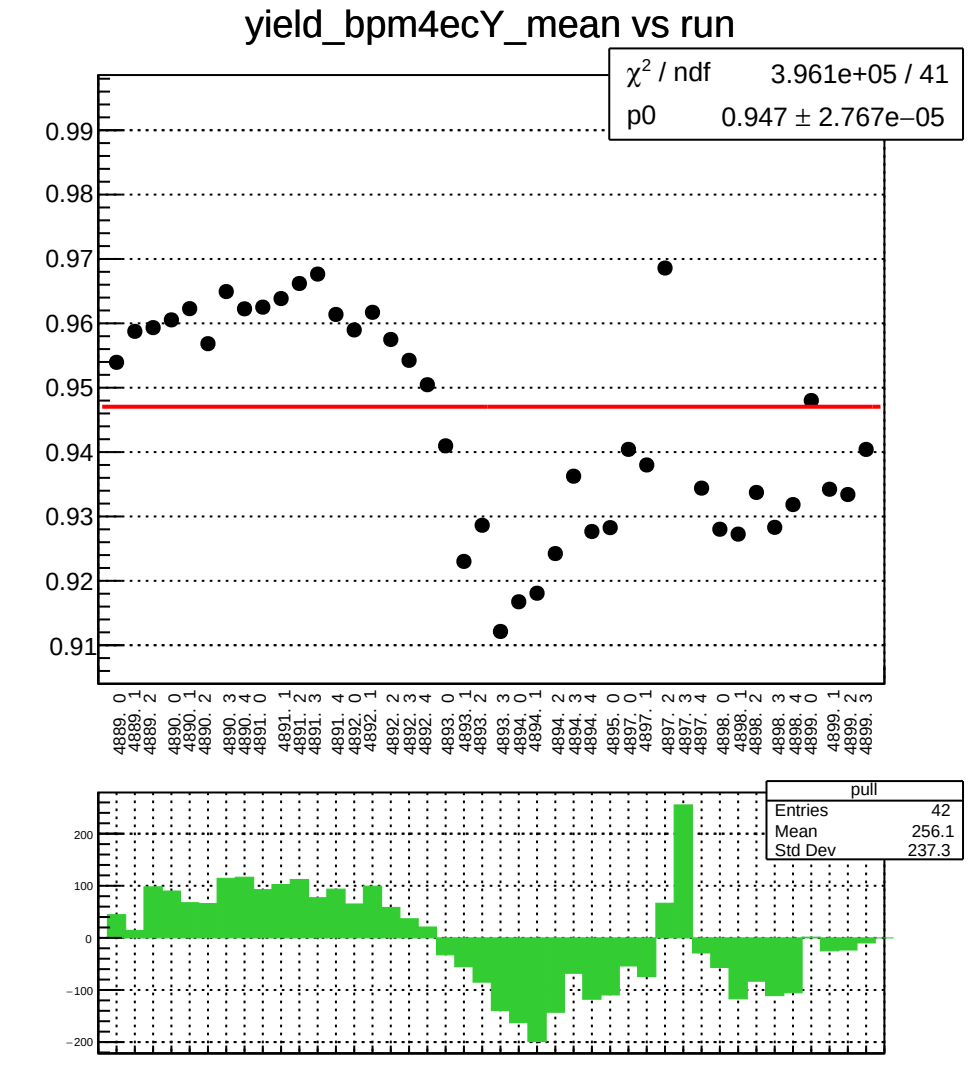

yield_bpm4acY_mean vs run
χ² / ndf 8.933e+06 / 41
p0 1.641± 3.943e−05
1.7
1.6
1.5
1.4
1.3
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 70.91
Std Dev 59.16
500
0
−500
−1000
−1500
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

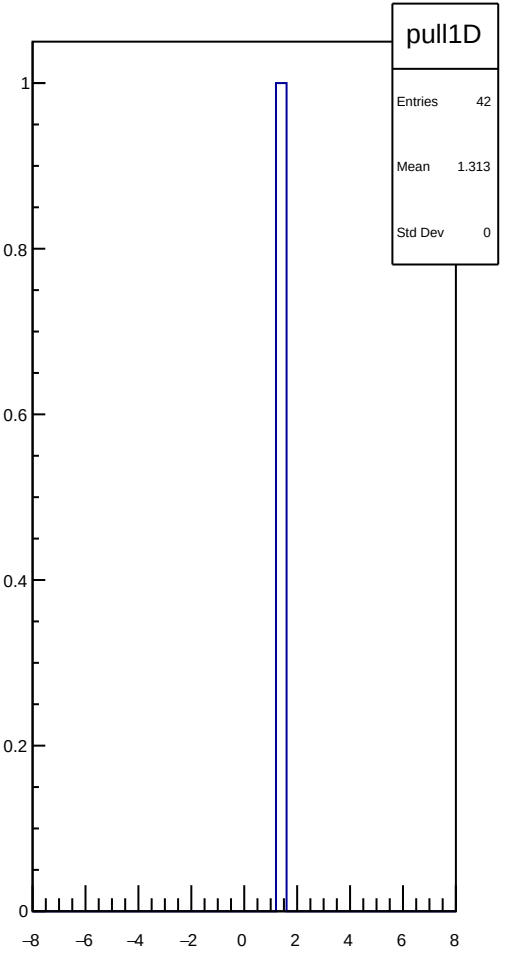

yield_bpm4acY_rms vs run
χ² / ndf 1.476e+05 / 41
p0 0.02316 ± 2.788e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

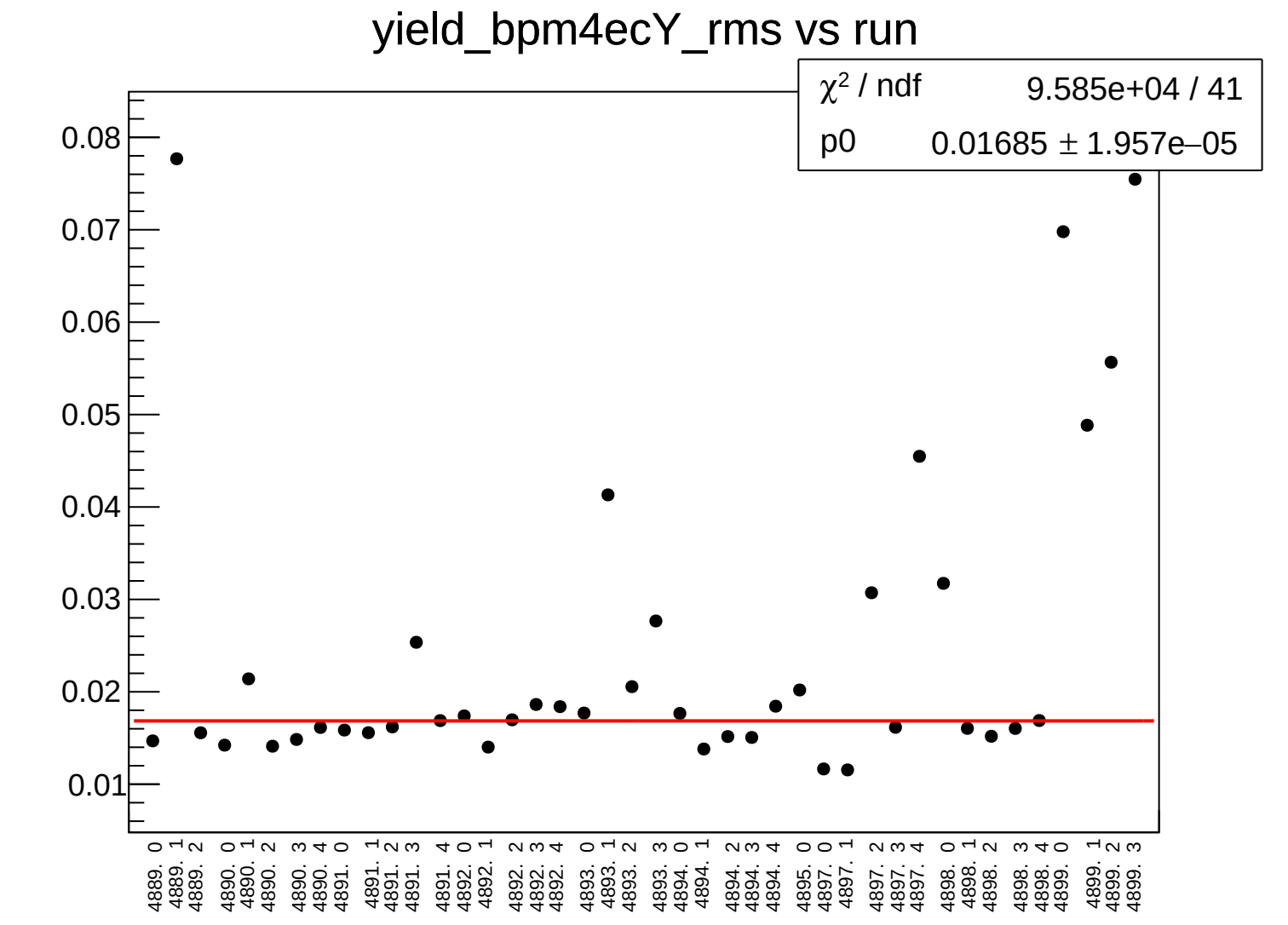

yield_bpm4ecX_mean vs run
χ² / ndf 1.937e+05 / 41
p0 0.4275 ± 4.835e−05
0.46
0.44
0.42
0.4
0.38
0.36
0.34
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −362.4
Std Dev 381.6
100
50
0
−50
−100
−150
−200
−250

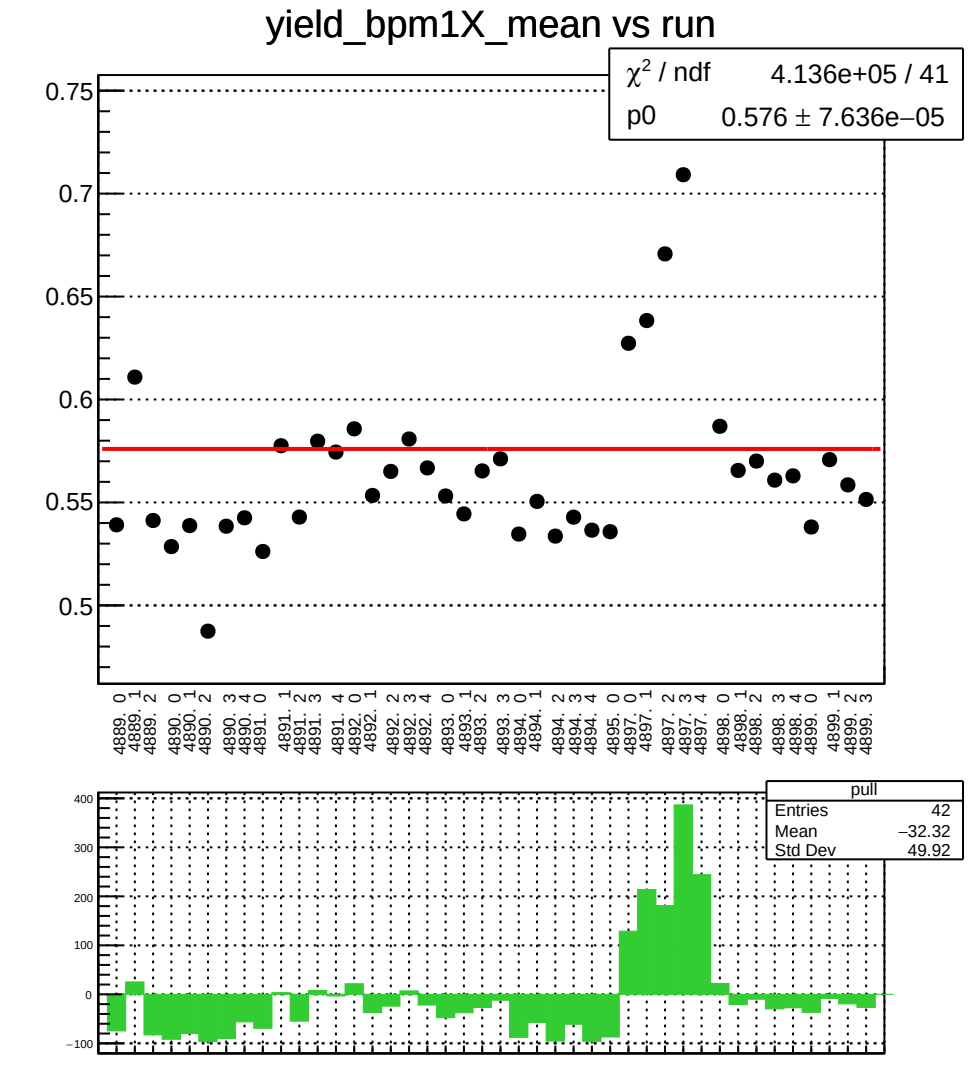

pull1D
Entries 42
Mean 1.113
Std Dev 1.769
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

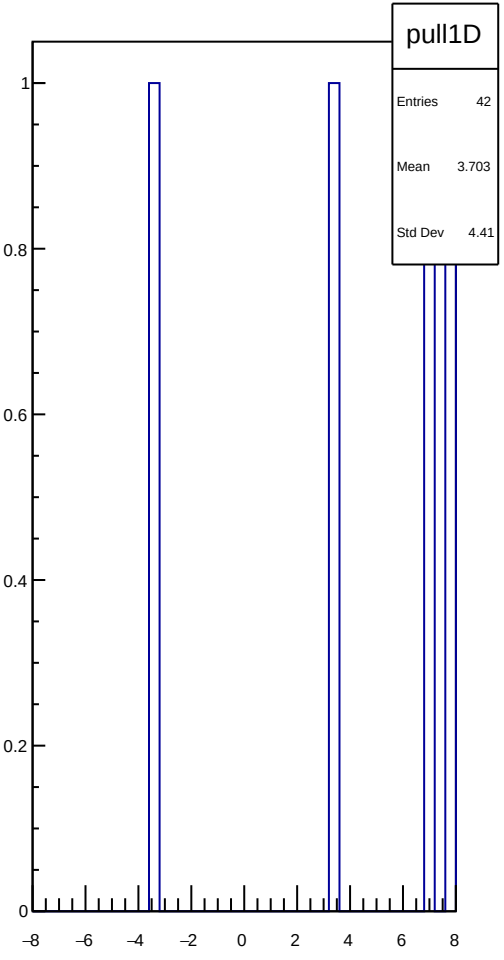

yield_bpm4ecX_rms vs run
χ² / ndf 5.513e+04 / 41
p0 0.03024 ± 3.419e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

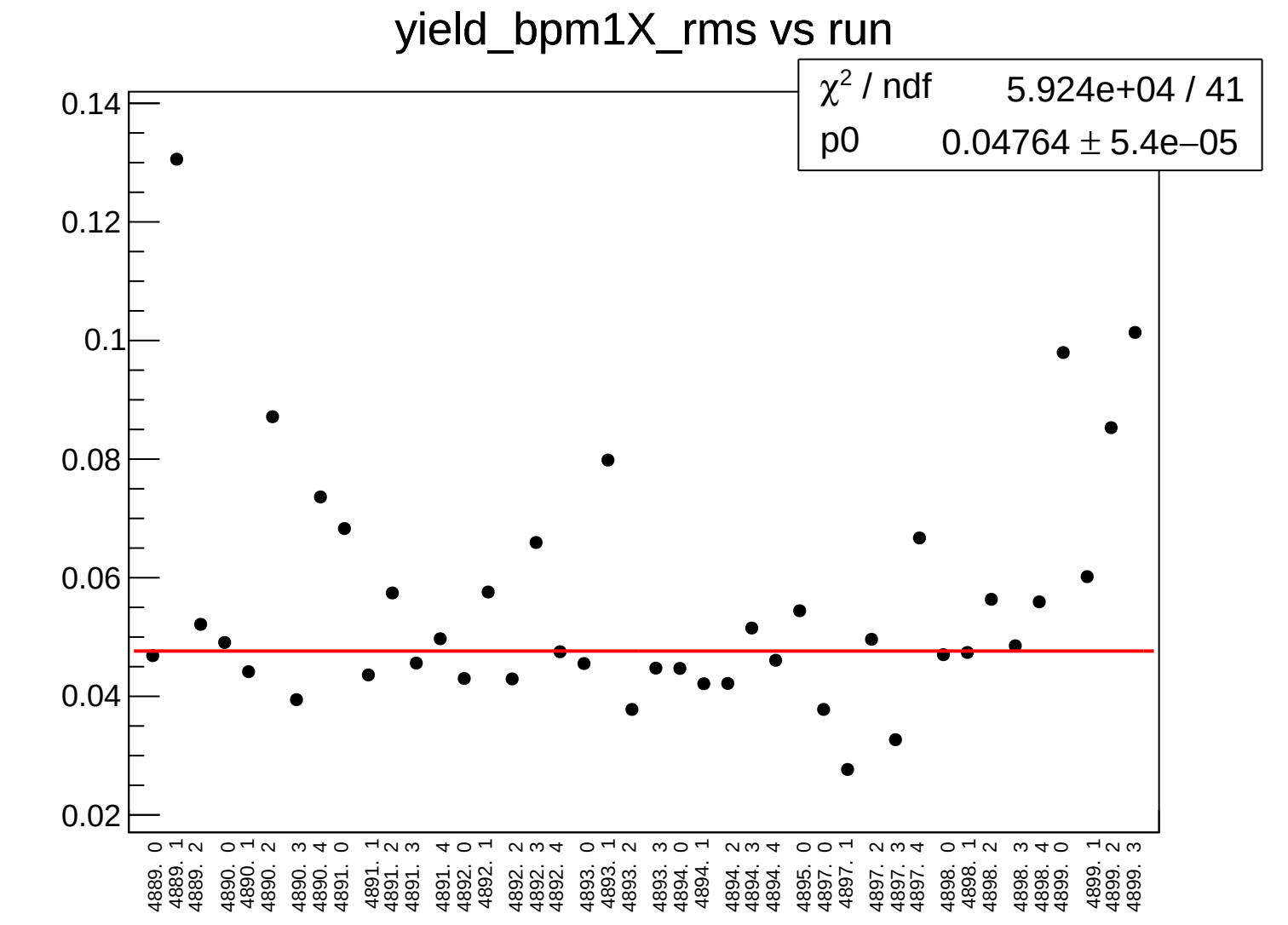

yield_bpm4ecY_mean vs run
χ² / ndf 3.961e+05 / 41
p0 0.947 ± 2.767e−05
0.99
0.98
0.97
0.96
0.95
0.94
0.93
0.92
0.91
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 256.1
Std Dev 237.3
200
100
0
−100
−200

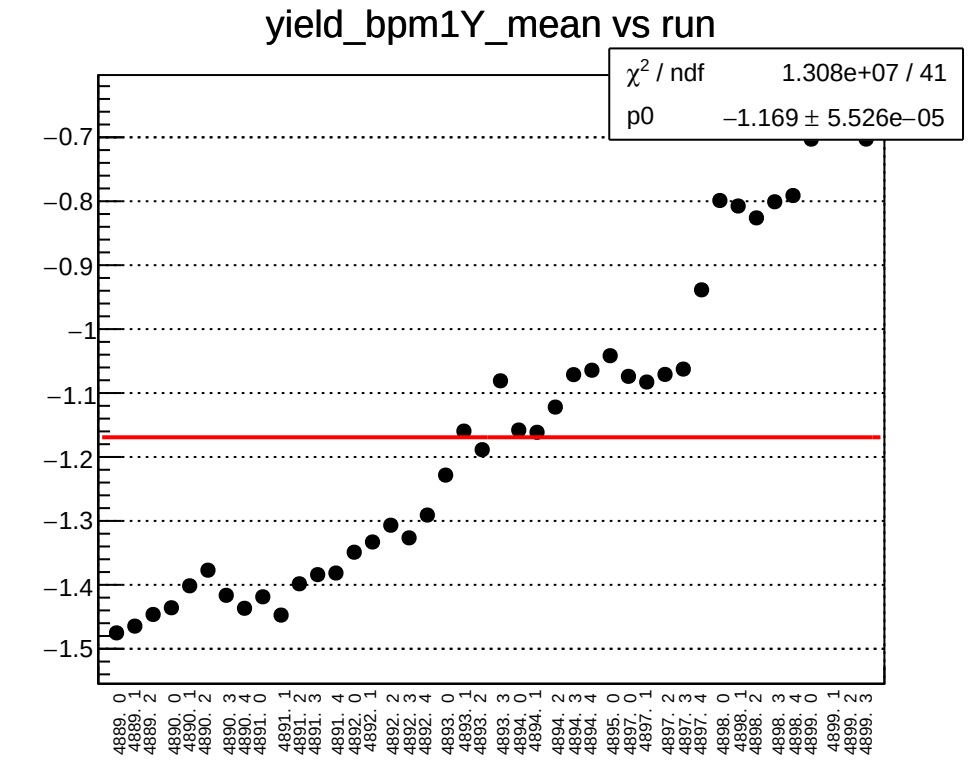

pull1D
Entries 42
Mean 1.313
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

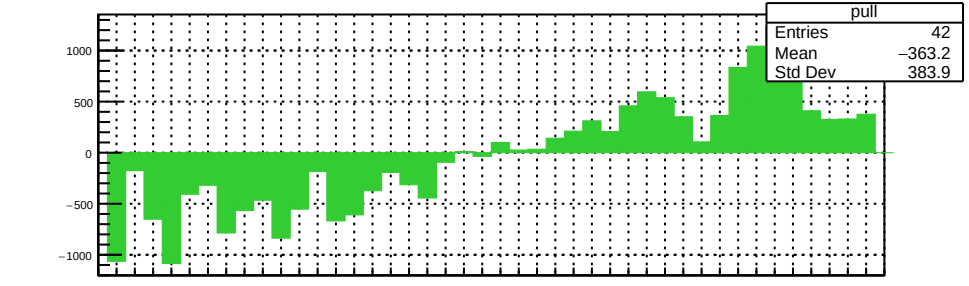

yield_bpm4ecY_rms vs run
χ² / ndf 9.585e+04 / 41
p0 0.01685 ± 1.957e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

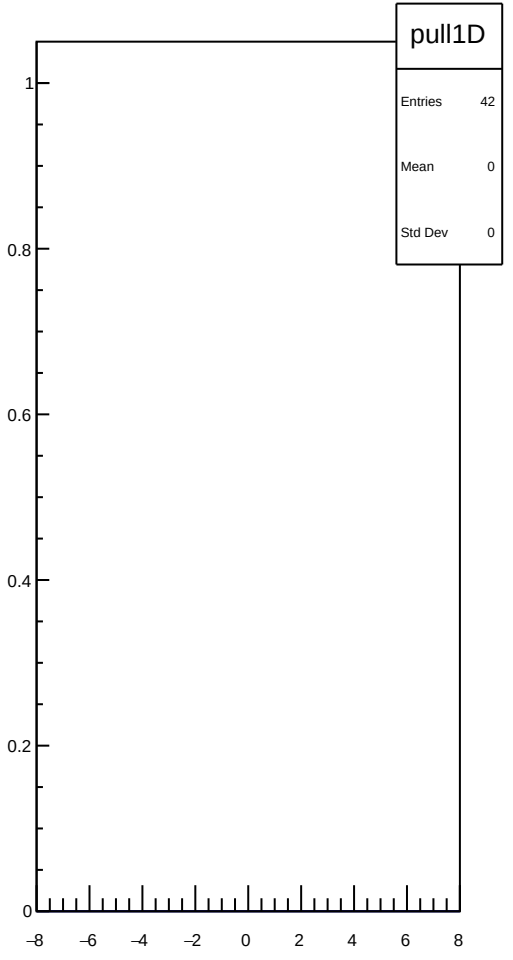

yield_bpm1X_mean vs run
χ² / ndf 4.136e+05 / 41
p0 0.576 ± 7.636e−05
0.75
0.7
0.65
0.6
0.55
0.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −32.32
Std Dev 49.92
400
300
200
100
0
−100

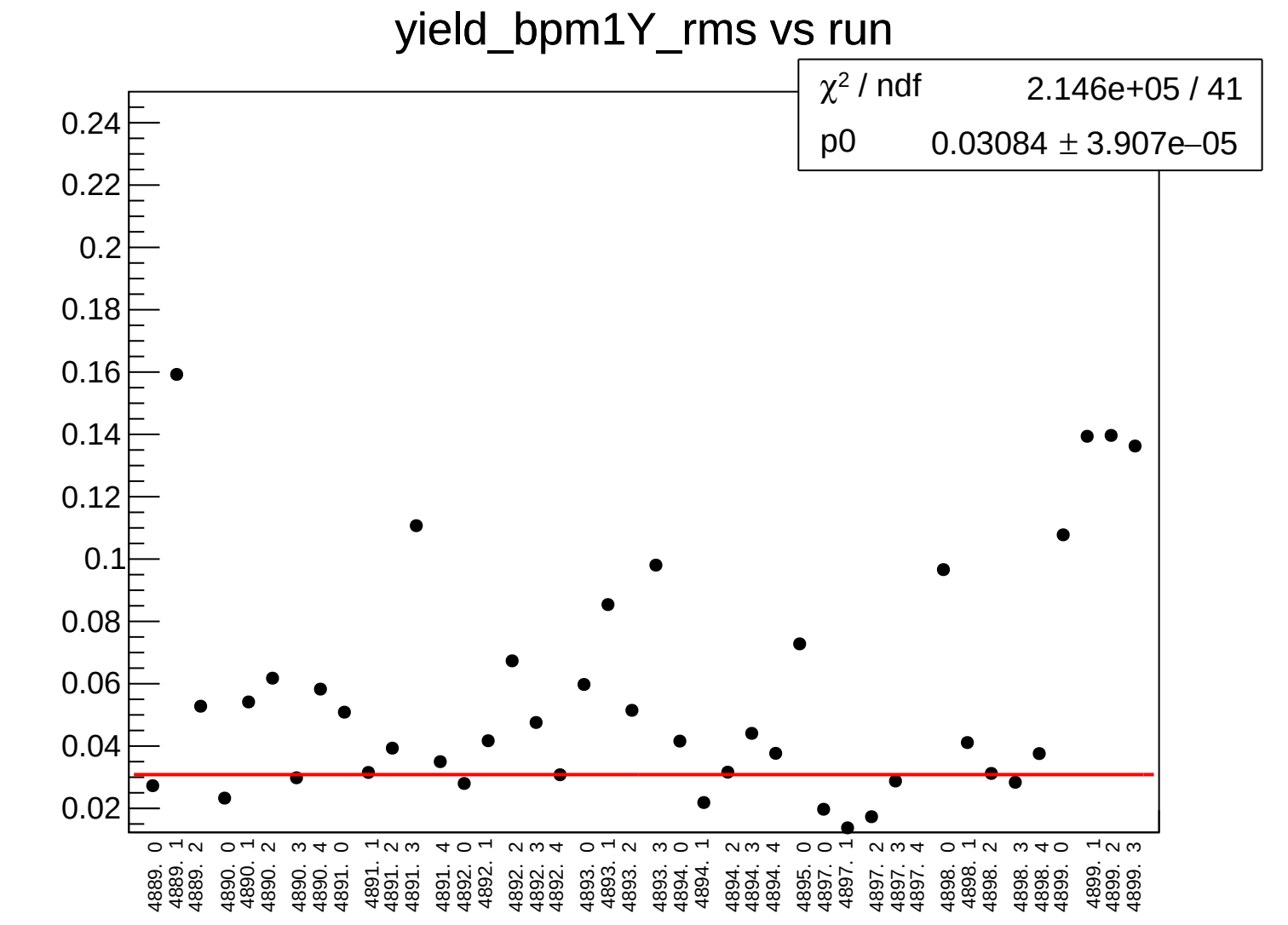

pull1D
Entries 42
Mean 3.703
Std Dev 4.41
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

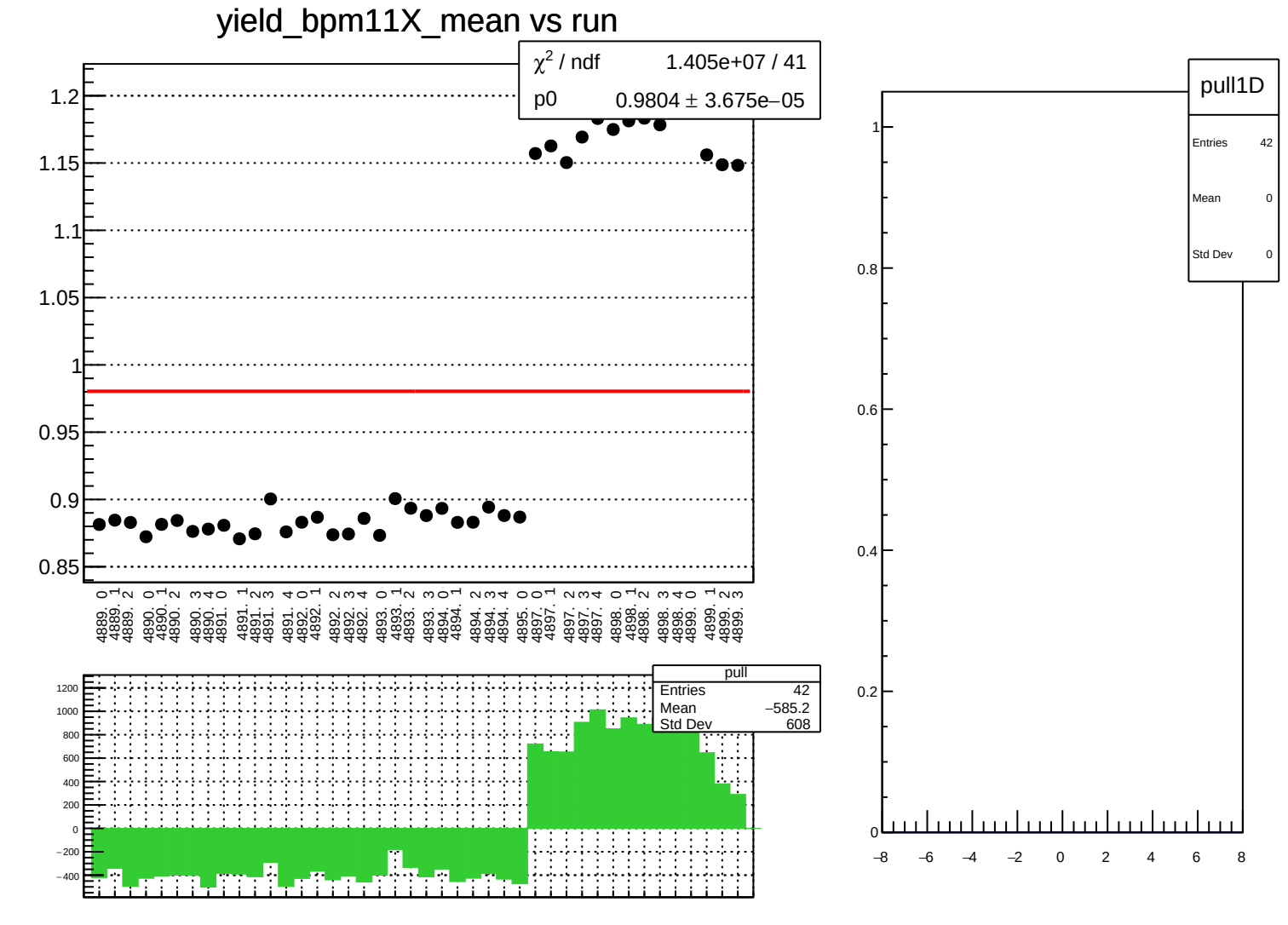

yield_bpm1X_rms vs run
χ² / ndf 5.924e+04 / 41
p0 0.04764 ± 5.4e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

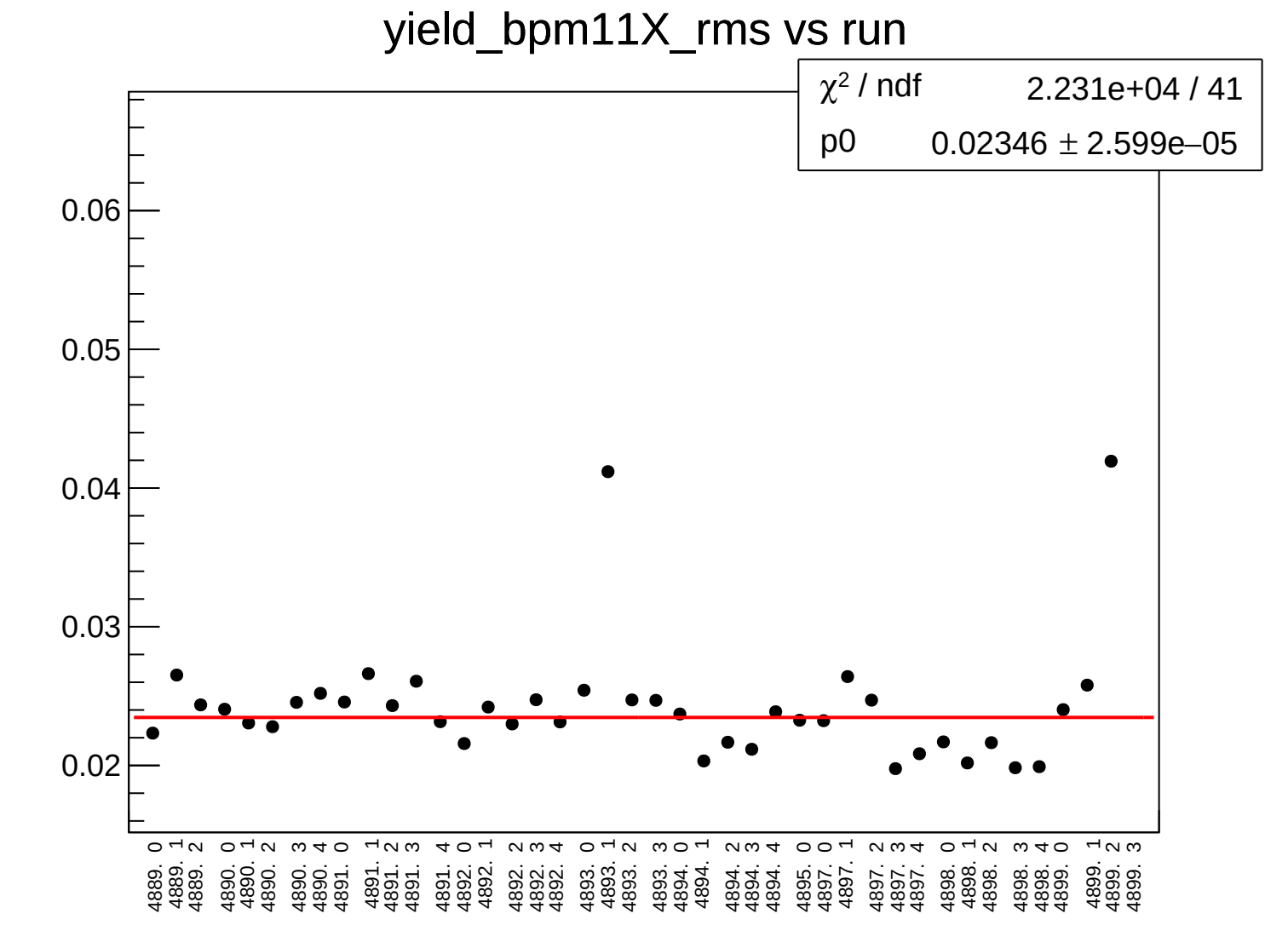

yield_bpm1Y_mean vs run
χ² / ndf 1.308e+07 / 41
p0 −1.169 ± 5.526e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

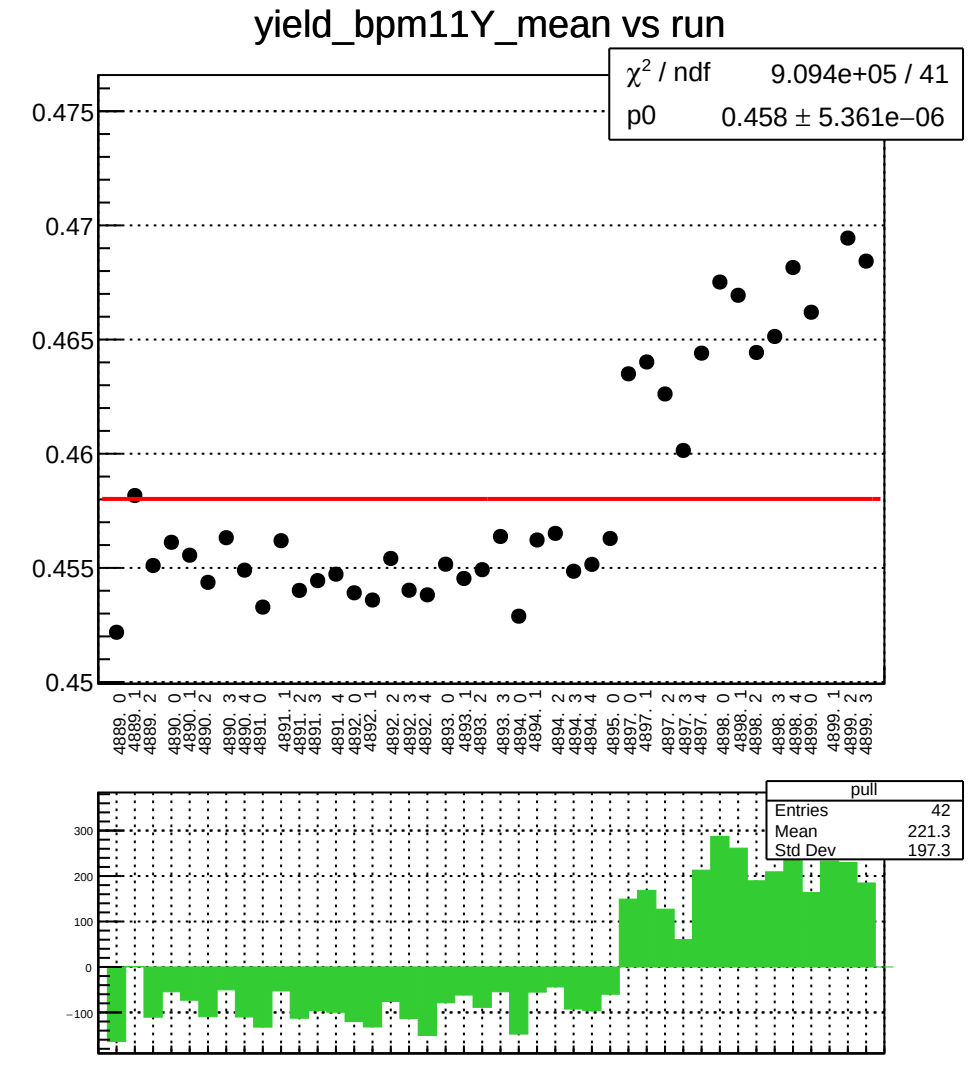

pull
Entries 42
Mean −363.2
Std Dev 383.9
1000
500
0
−500
−1000

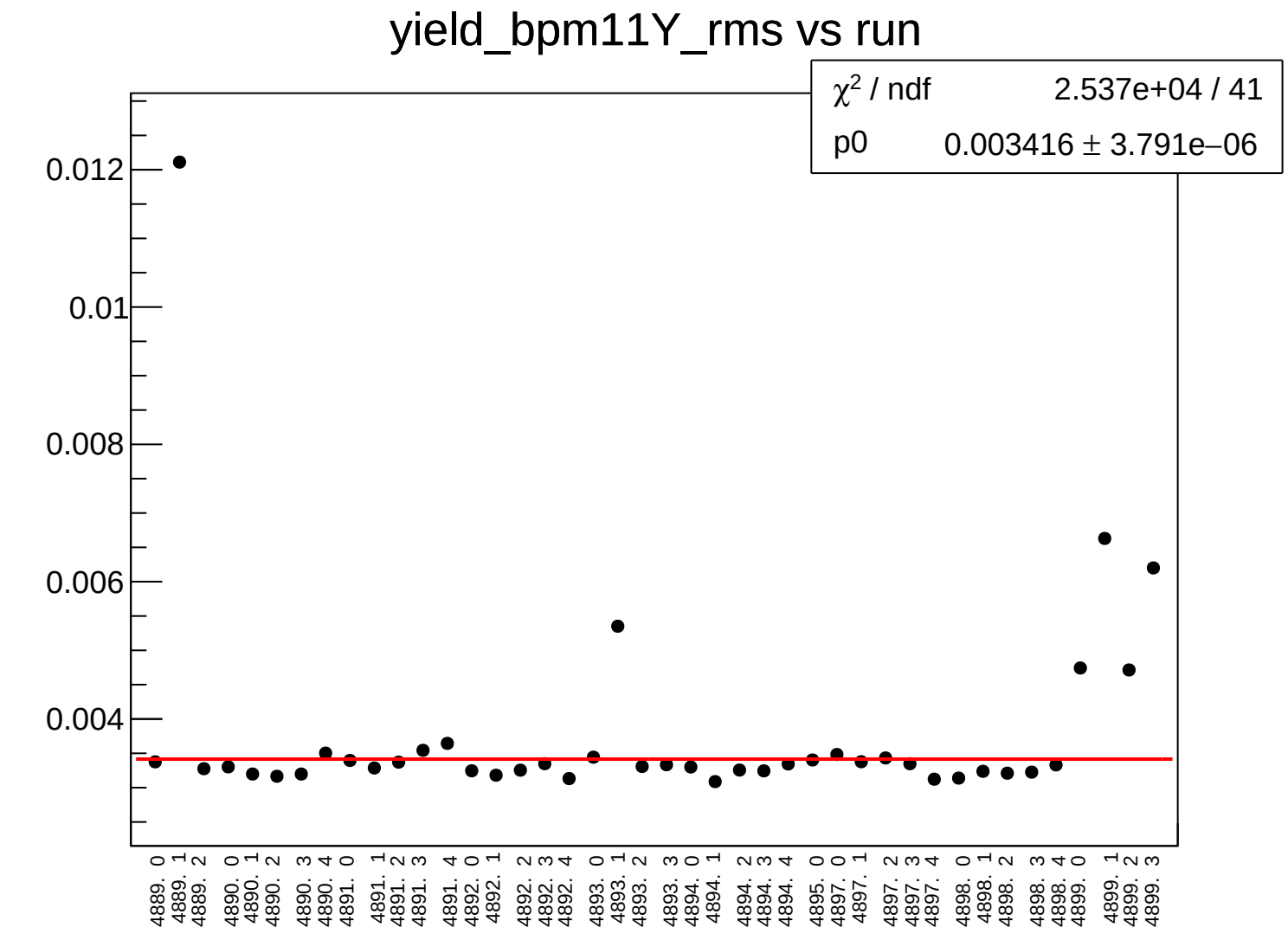

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

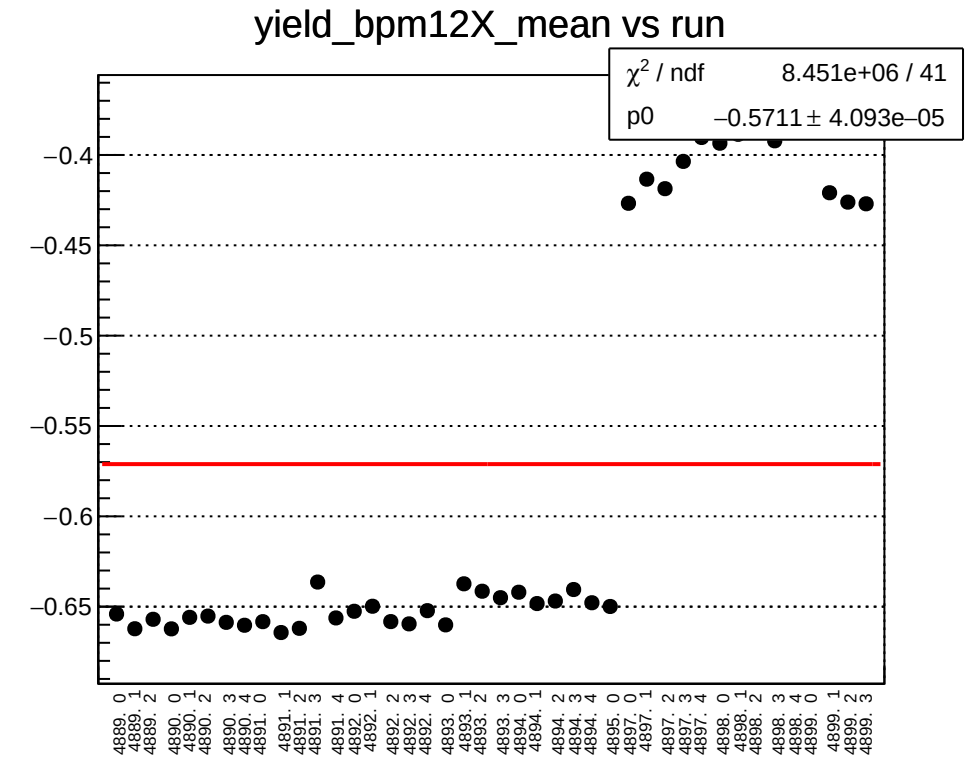

yield_bpm1Y_rms vs run
χ² / ndf 2.146e+05 / 41
p0 0.03084 ± 3.907e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

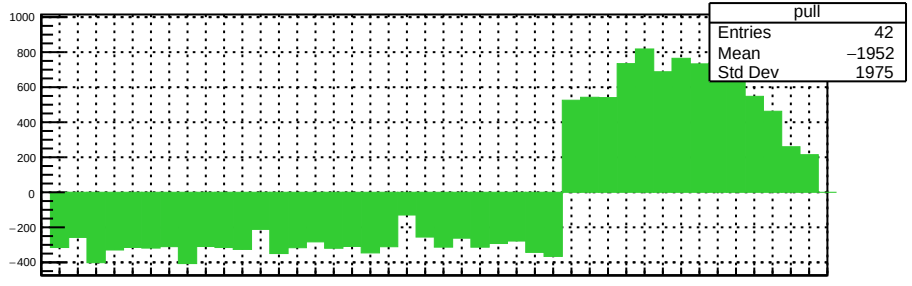

yield_bpm11X_mean vs run
χ² / ndf 1.405e+07 / 41
p0 0.9804 ± 3.675e−05
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −585.2
Std Dev 608
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

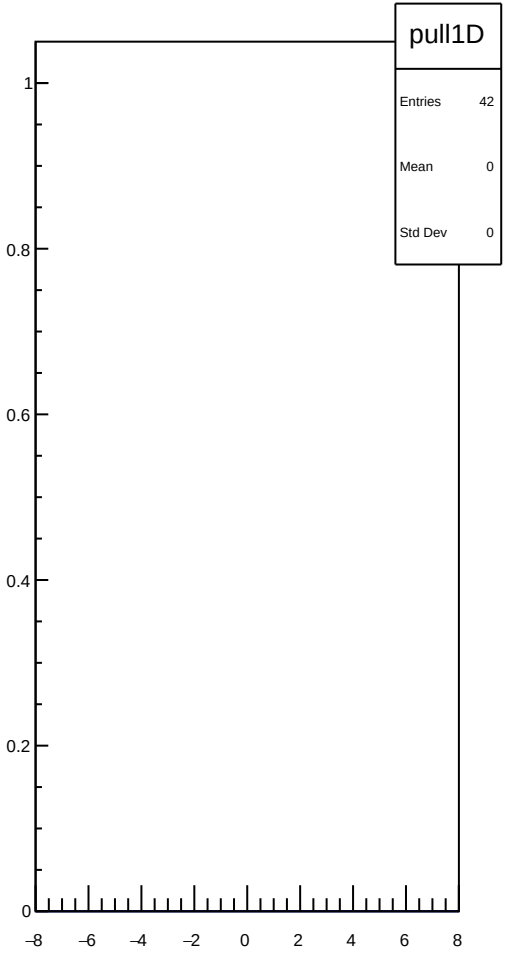

yield_bpm11X_rms vs run
χ² / ndf 2.231e+04 / 41
p0 0.02346 ± 2.599e–05
0.06
0.05
0.04
0.03
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

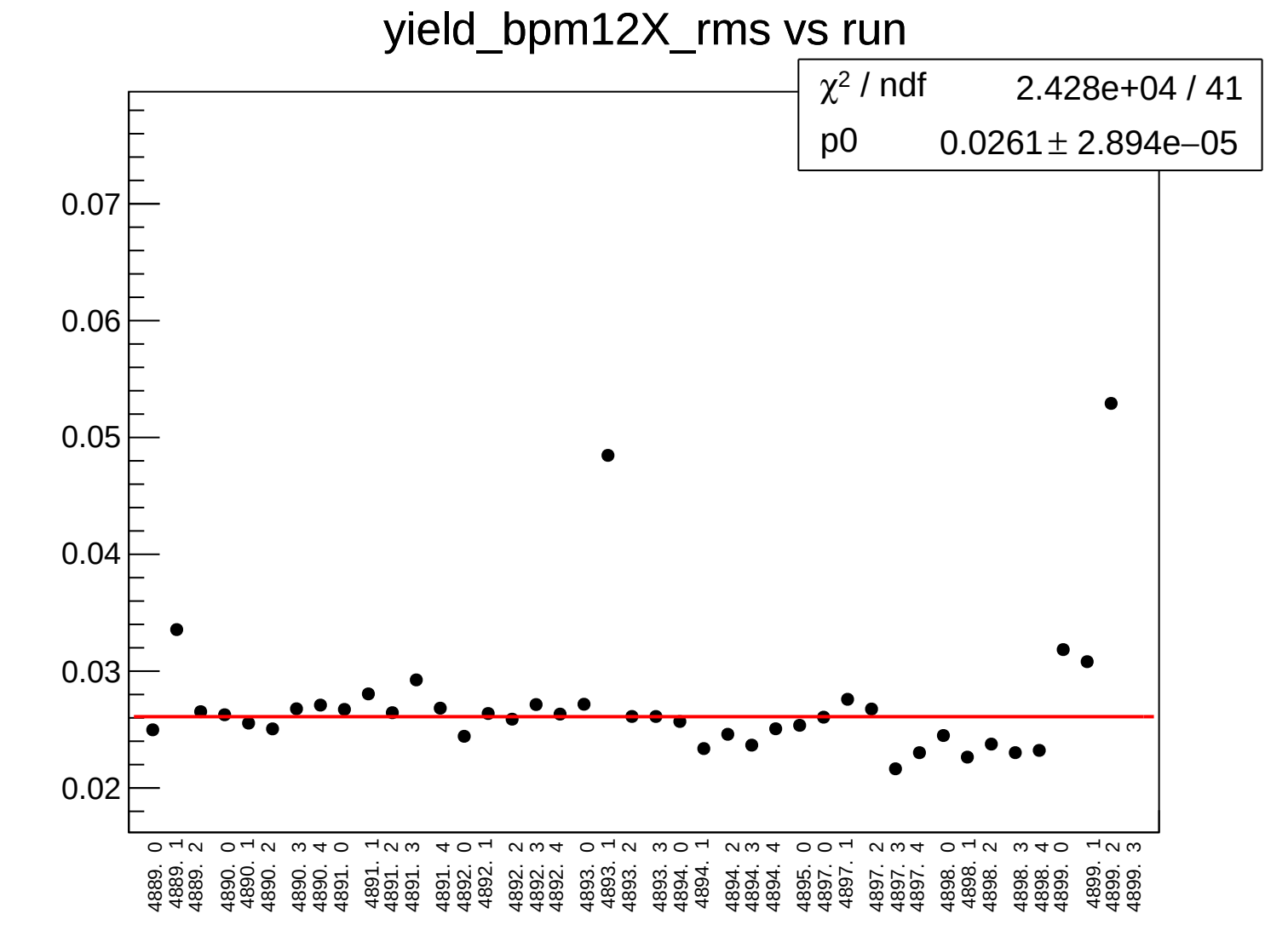

yield_bpm11Y_mean vs run
χ² / ndf 9.094e+05 / 41
p0 0.458 ± 5.361e−06
0.475
0.47
0.465
0.46
0.455
0.45
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 221.3
Std Dev 197.3
300
200
100
0
−100
pull1D
Entries 42
Mean 1.169
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

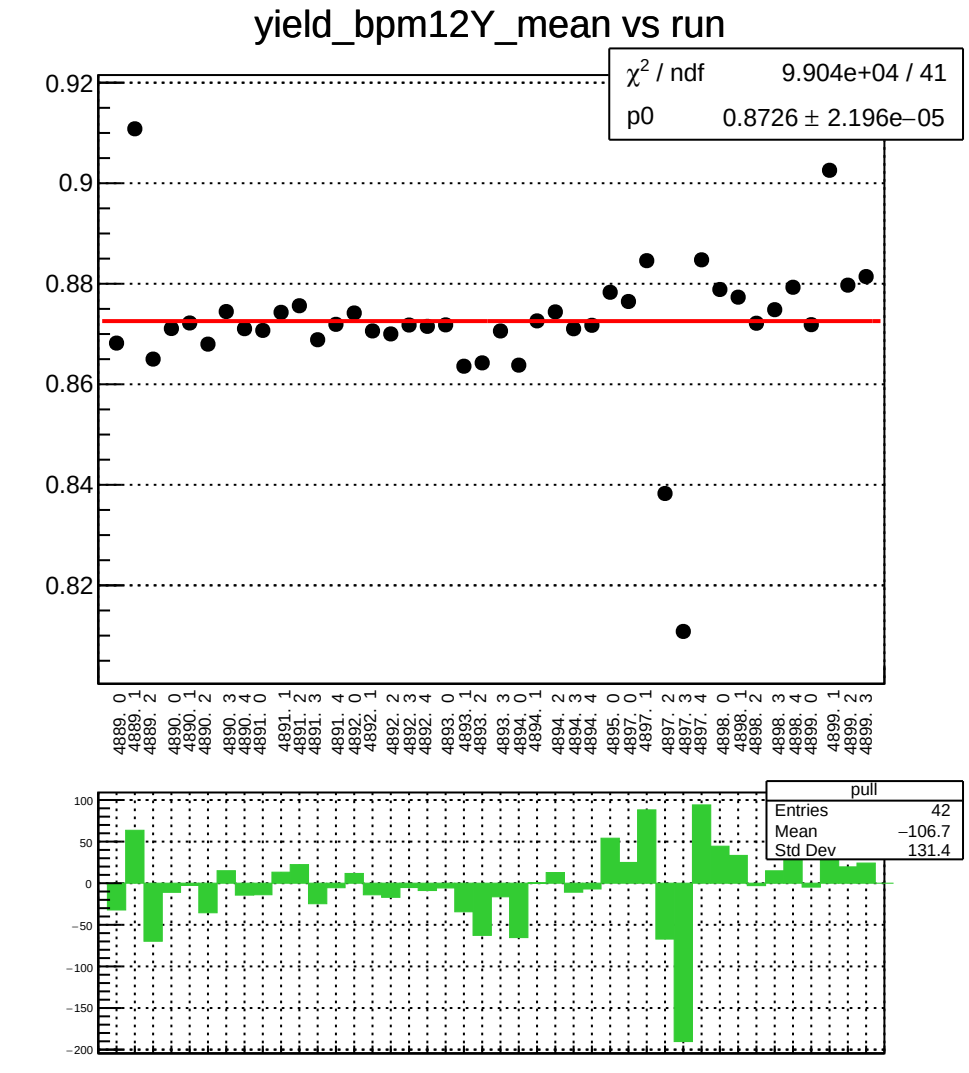

yield_bpm11Y_rms vs run
χ² / ndf 2.537e+04 / 41
p0 0.003416 ± 3.791e−06
0.012
0.01
0.008
0.006
0.004
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

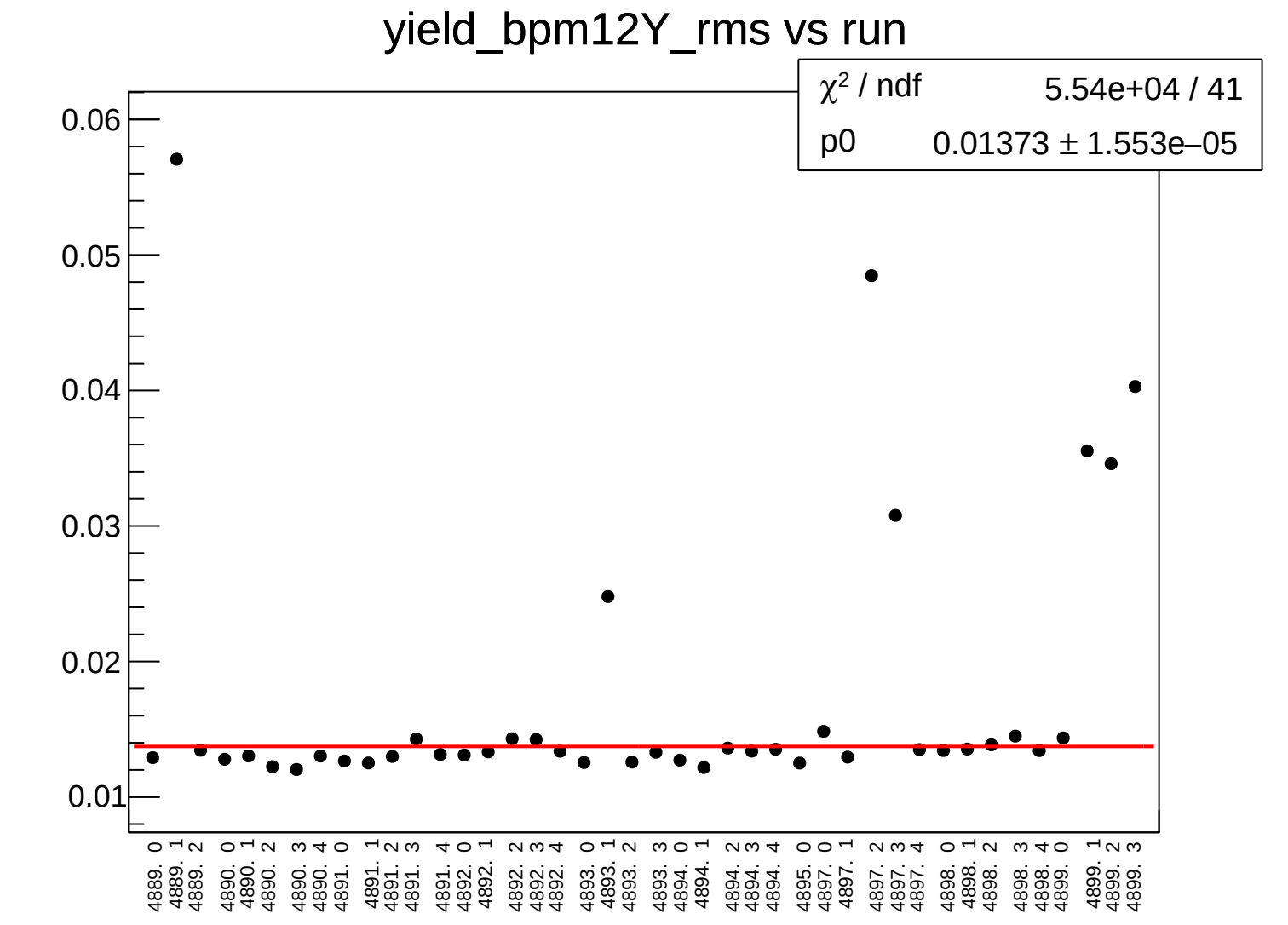

yield_bpm12X_mean vs run
χ² / ndf 8.451e+06 / 41
p0 −0.5711 ± 4.093e−05
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

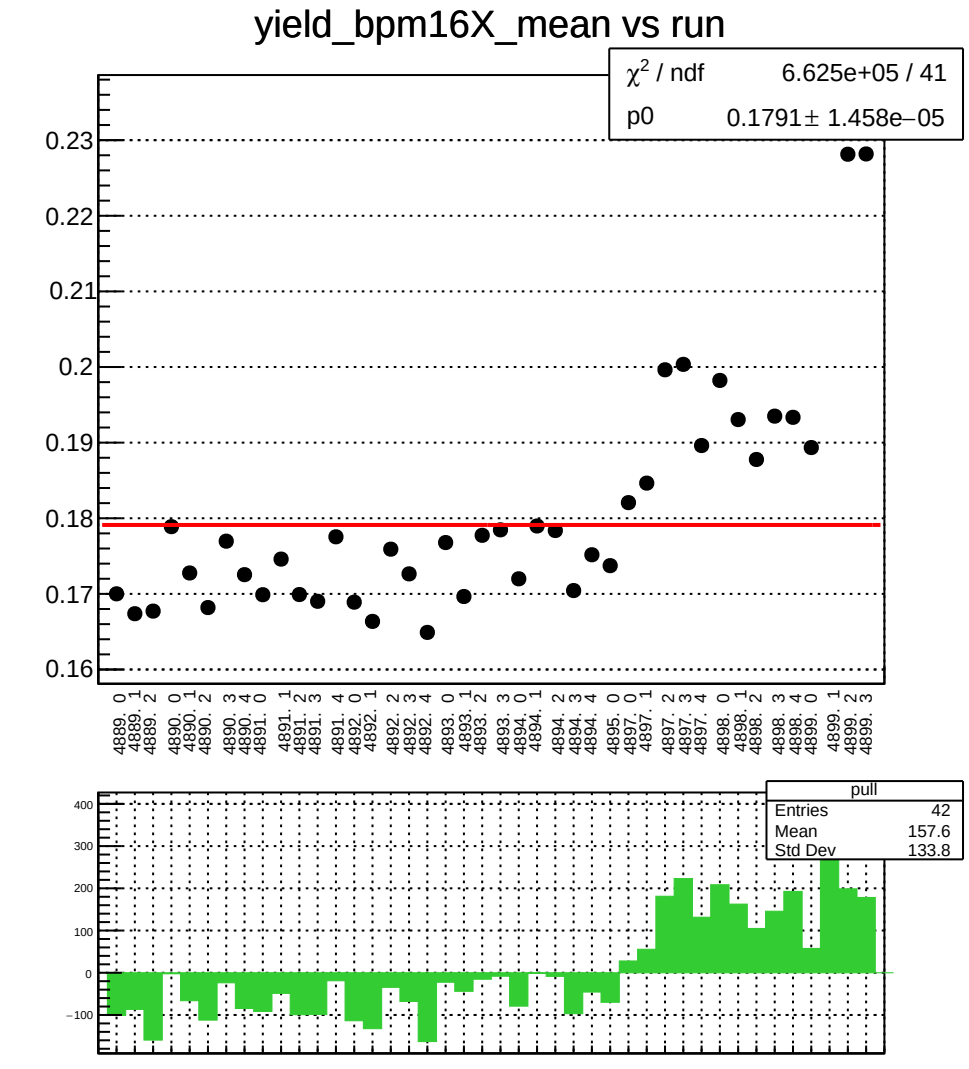

pull
Entries 42
Mean −1952
Std Dev 1975
1000
800
600
400
200
0
−200
−400

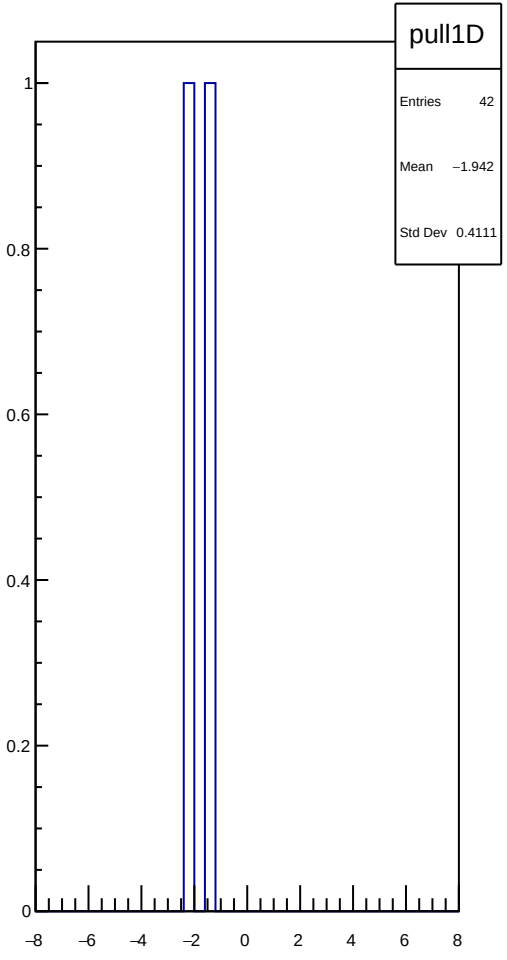

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

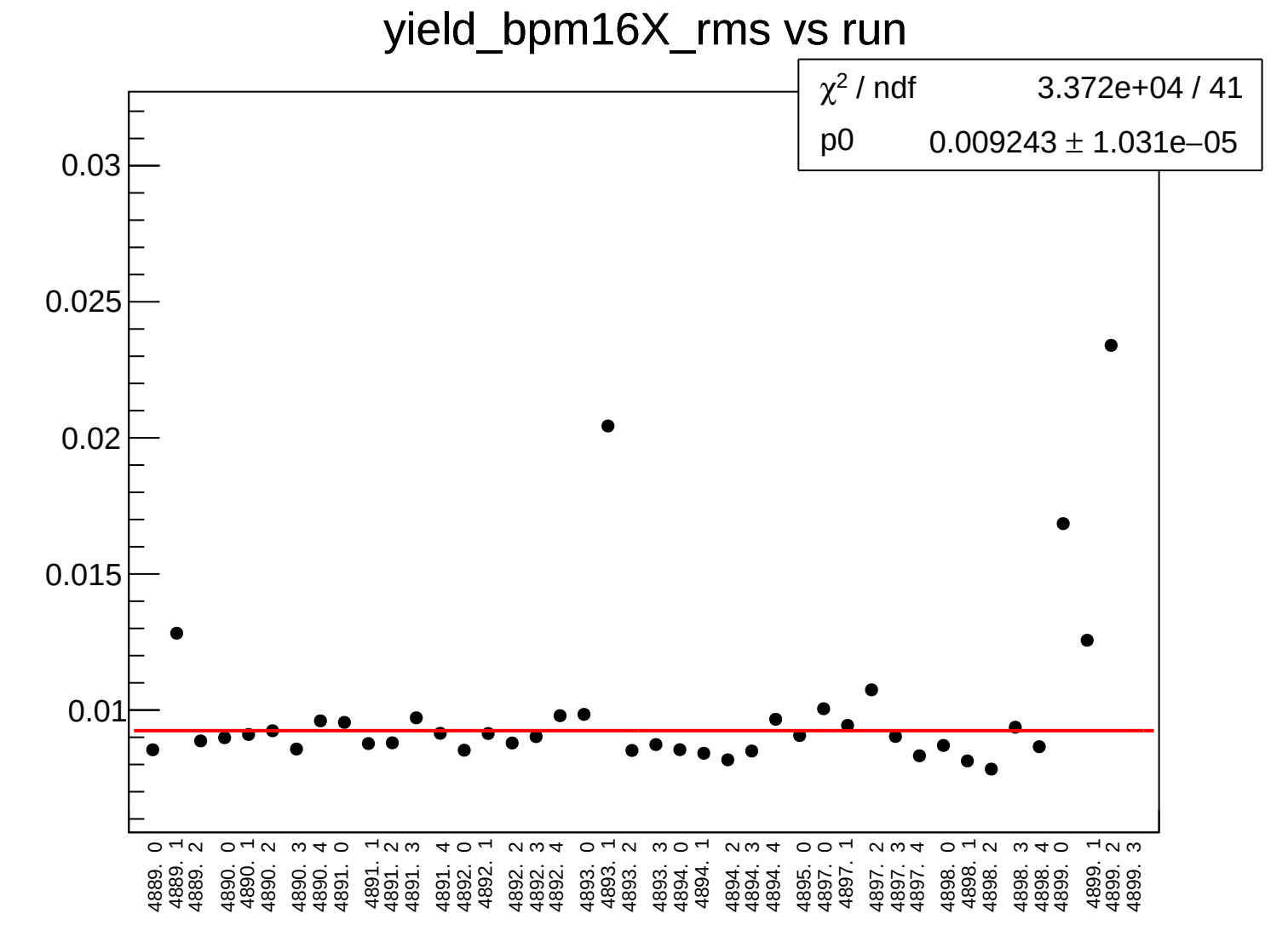

yield_bpm12X_rms vs run
χ² / ndf 2.428e+04 / 41
p0 0.0261 ± 2.894e−05
0.07
0.06
0.05
0.04
0.03
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

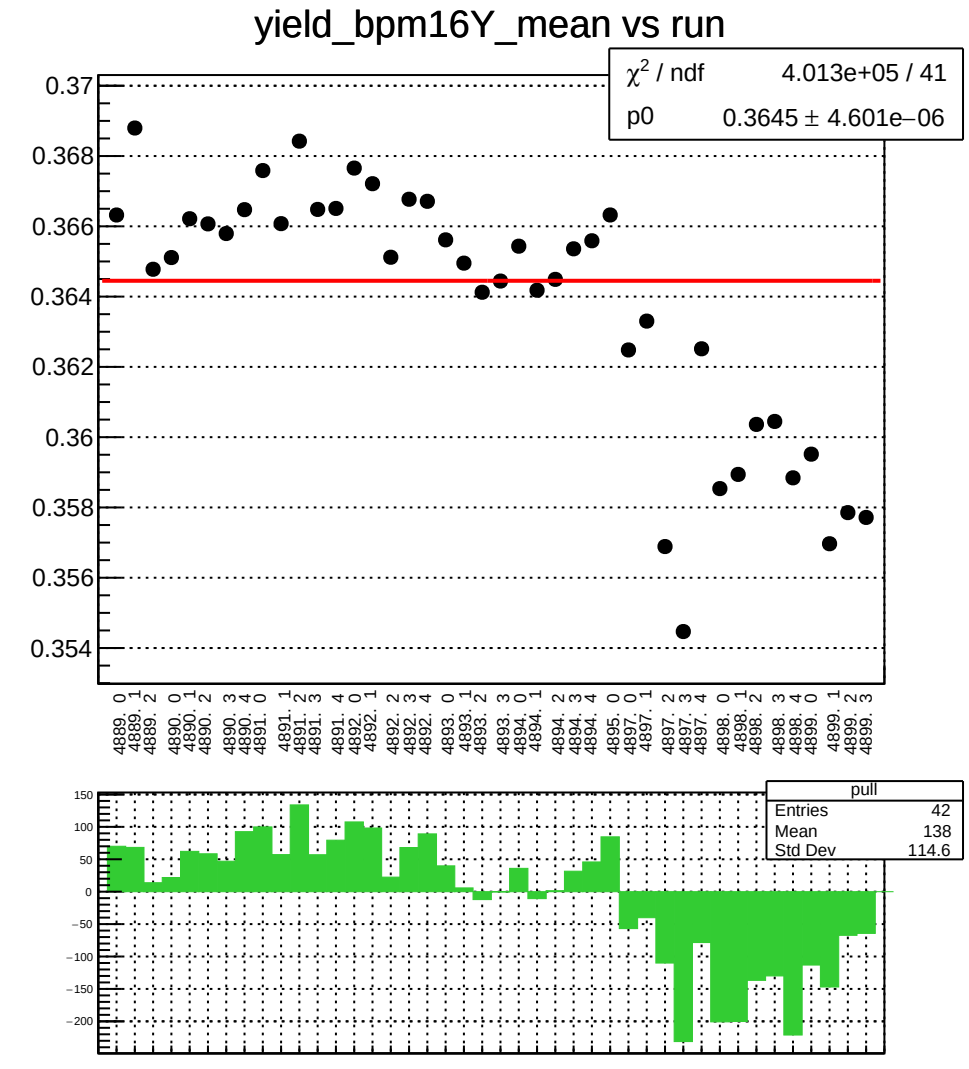

yield_bpm12Y_mean vs run
χ² / ndf 9.904e+04 / 41
p0 0.8726 ± 2.196e−05
0.92
0.9
0.88
0.86
0.84
0.82
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −106.7
Std Dev 131.4
100
50
0
−50
−100
−150
−200
pull1D
Entries 42
Mean −4.142
Std Dev 2.141
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

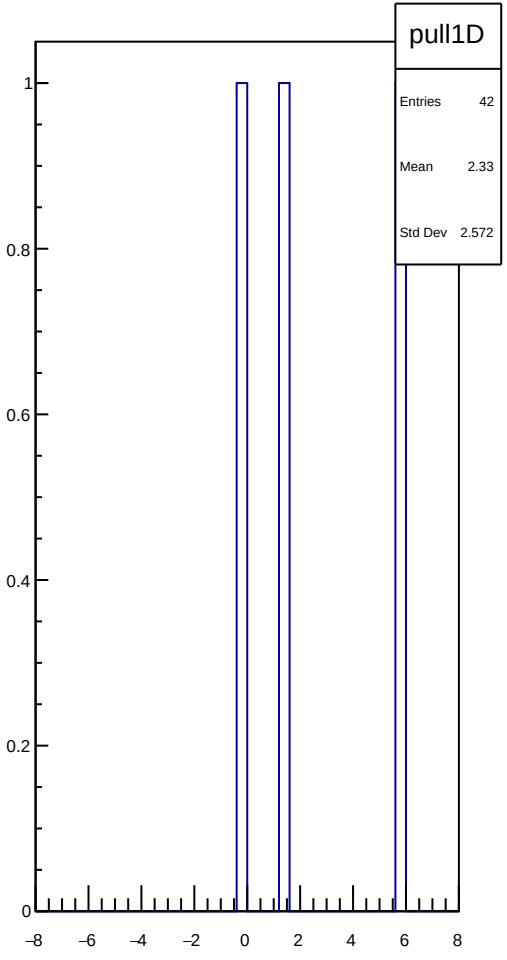

yield_bpm12Y_rms vs run
χ² / ndf 5.54e+04 / 41
p0 0.01373 ± 1.553e–05
0.06
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

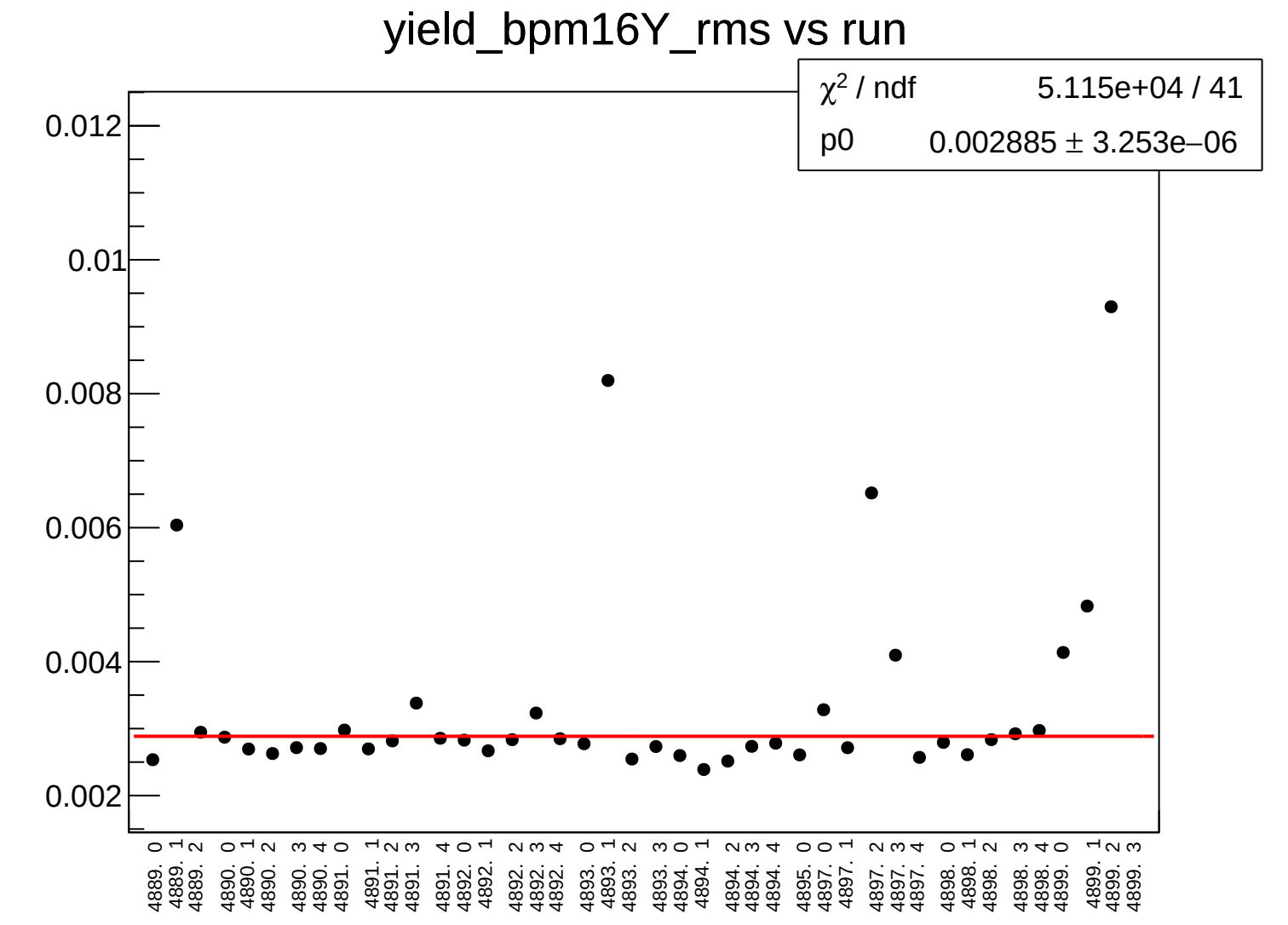

yield_bpm16X_mean vs run
χ² / ndf 6.625e+05 / 41
p0 0.1791 ± 1.458e−05
0.23
0.22
0.21
0.2
0.19
0.18
0.17
0.16
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 157.6
Std Dev 133.8
400
300
200
100
0
−100

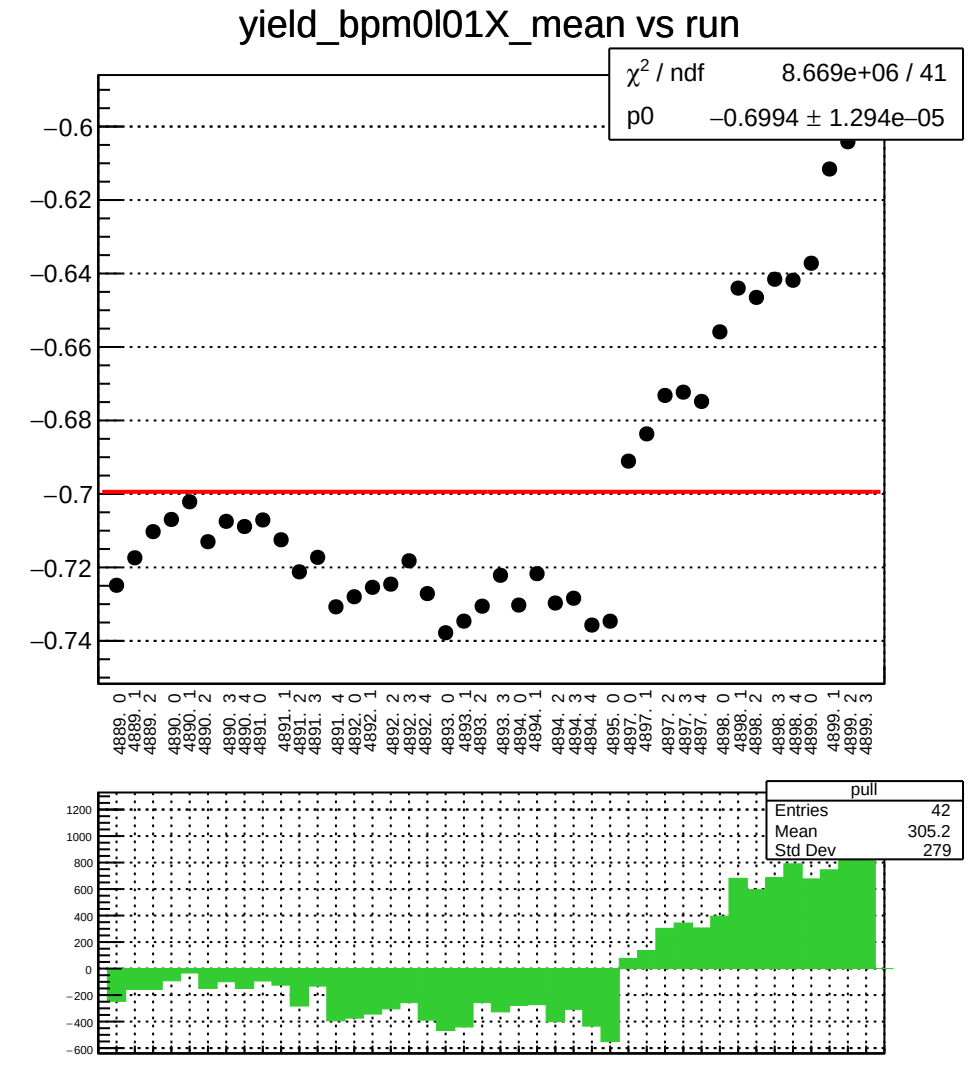

pull1D
Entries 42
Mean −1.942
Std Dev 0.4111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

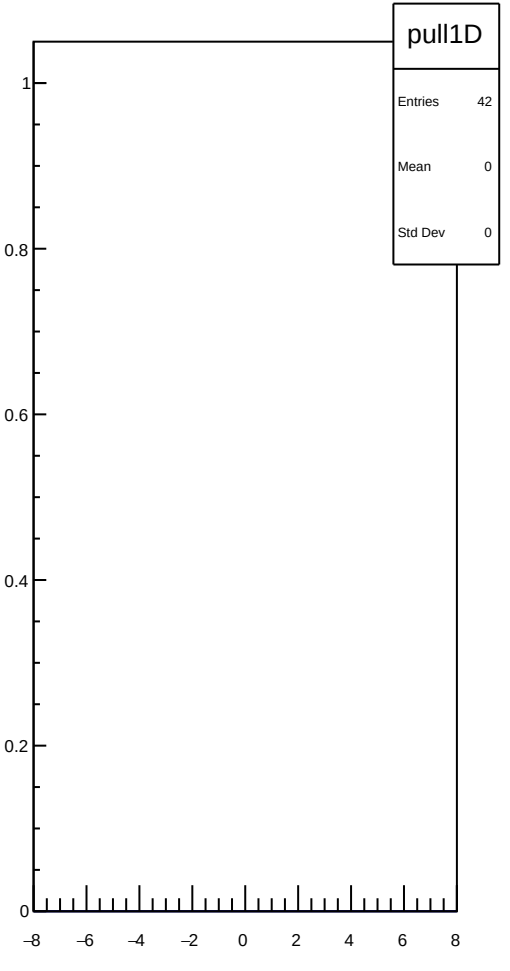

yield_bpm16X_rms vs run
χ² / ndf 3.372e+04 / 41
p0 0.009243 ± 1.031e−05
0.03
0.025
0.02
0.015
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

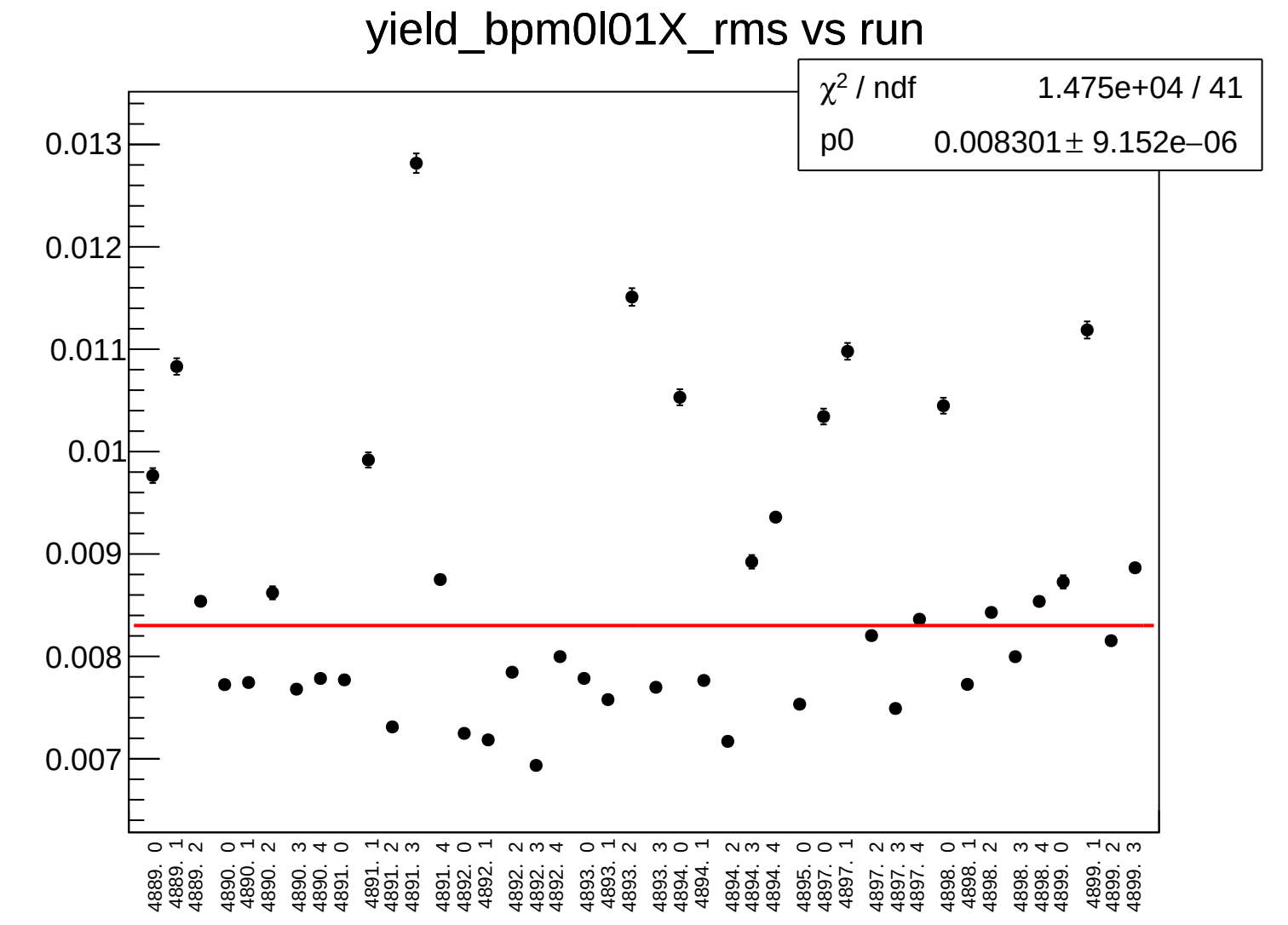

yield_bpm16Y_mean vs run
χ² / ndf 4.013e+05 / 41
p0 0.3645 ± 4.601e−06
0.37
0.368
0.366
0.364
0.362
0.36
0.358
0.356
0.354
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 138
Std Dev 114.6
150
100
50
0
−50
−100
−150
−200

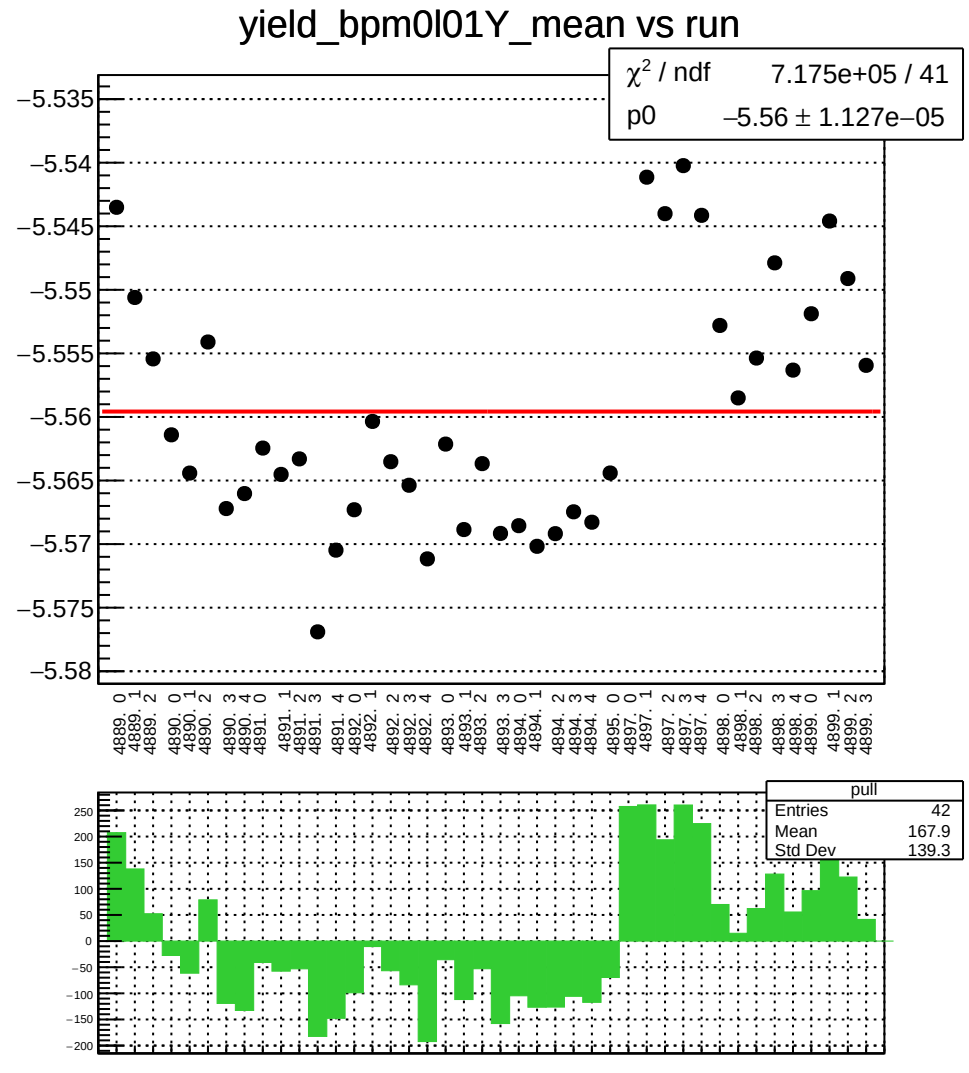

pull1D
Entries 42
Mean 2.33
Std Dev 2.572
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

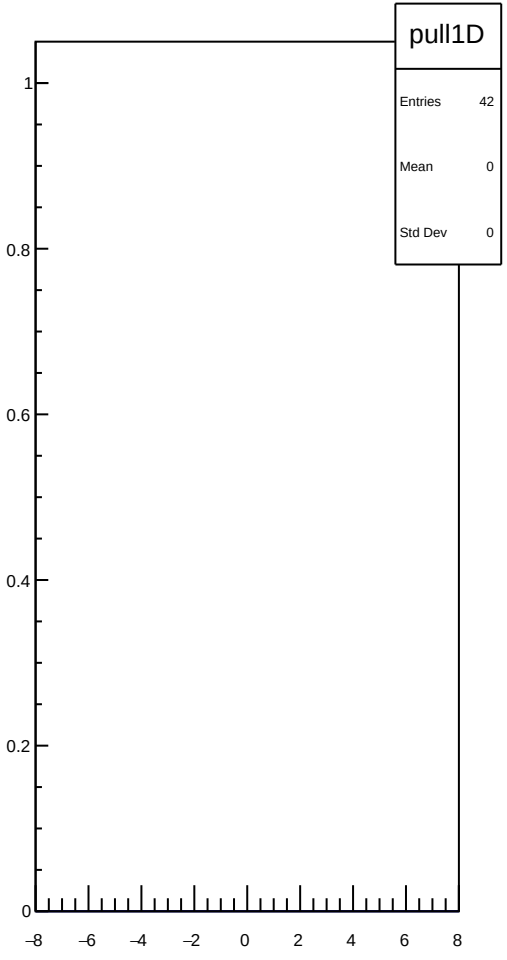

yield_bpm16Y_rms vs run
χ² / ndf 5.115e+04 / 41
p0 0.002885 ± 3.253e−06
0.012
0.01
0.008
0.006
0.004
0.002
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

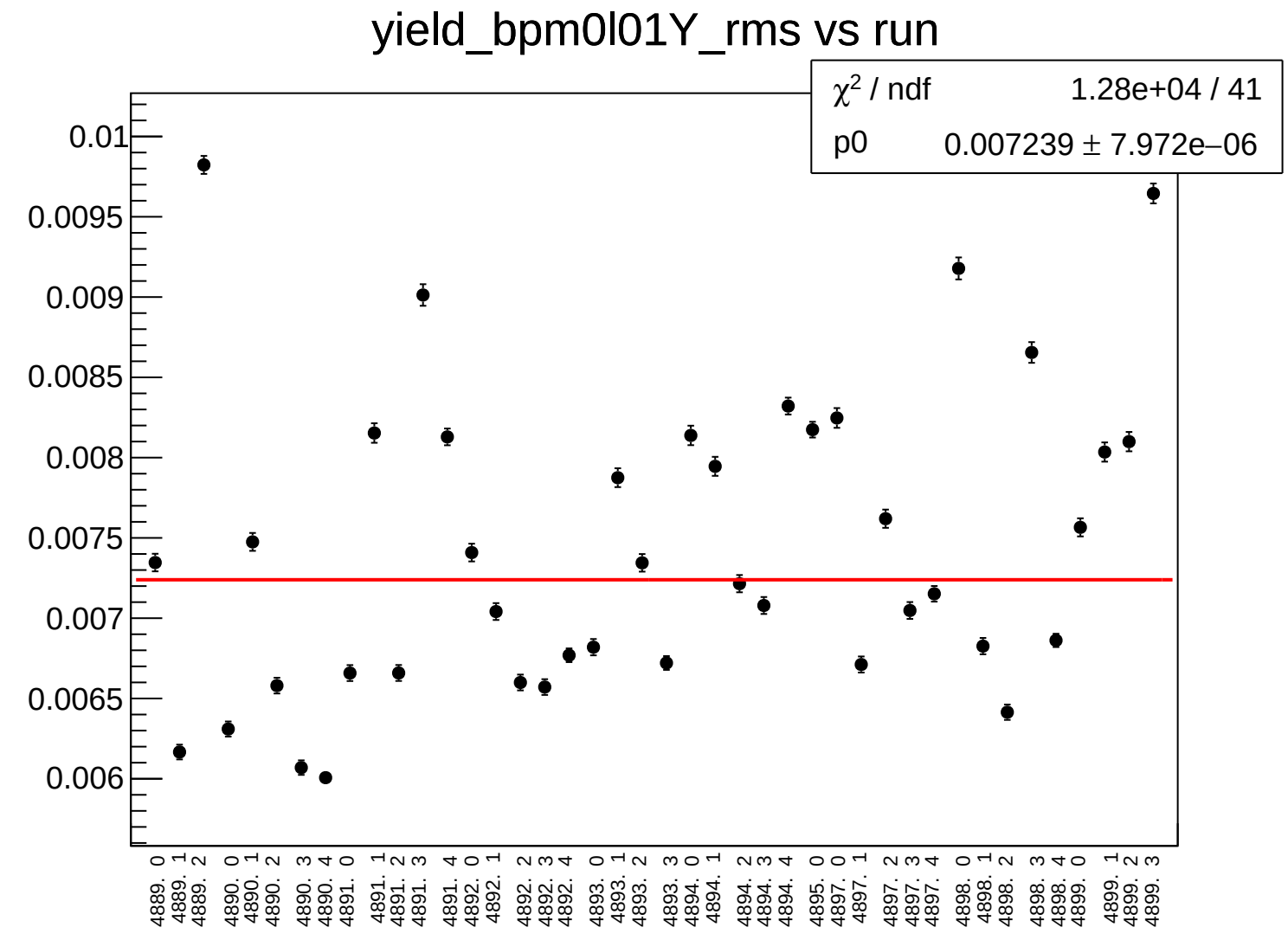

yield_bpm0l01X_mean vs run
χ² / ndf 8.669e+06 / 41
p0 −0.6994 ± 1.294e−05
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 305.2
Std Dev 279
1200
1000
800
600
400
200
0
−200
−400
−600

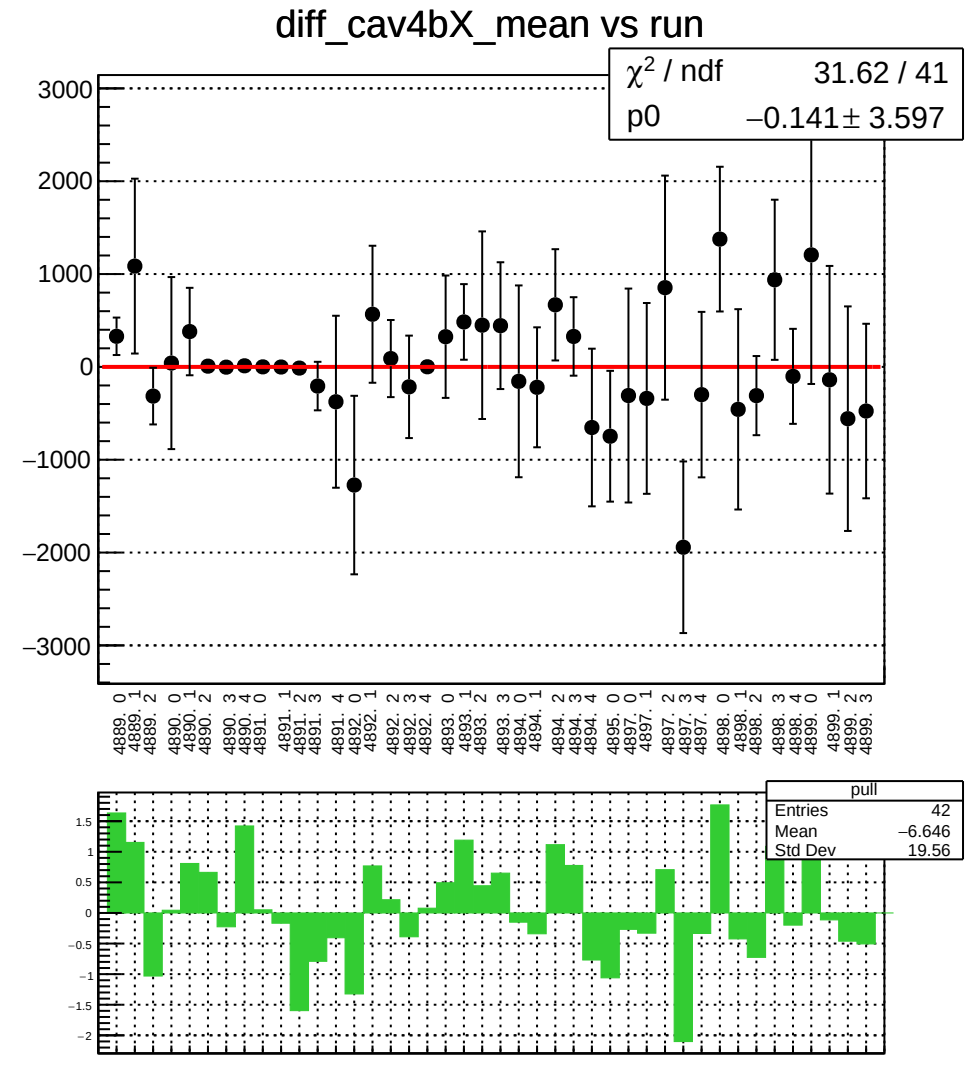

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

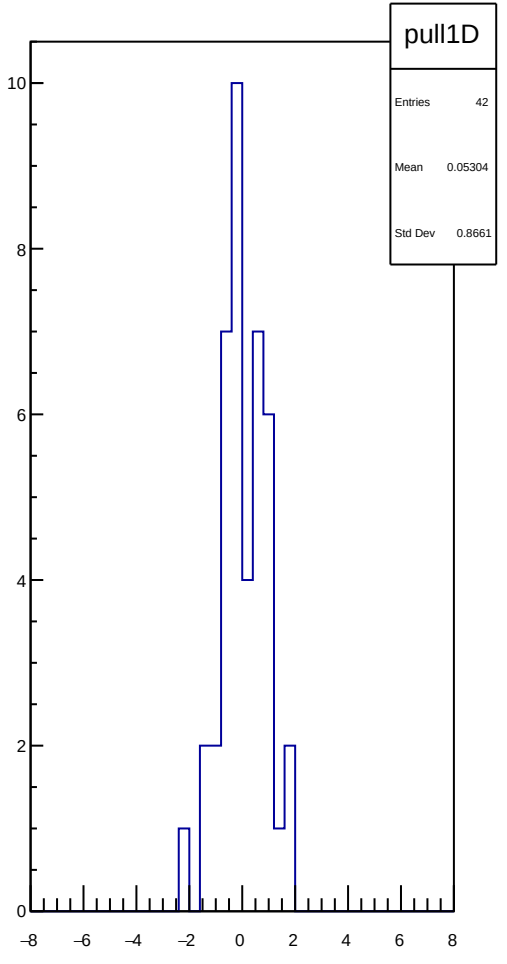

yield_bpm0l01X_rms vs run
χ² / ndf 1.475e+04 / 41
p0 0.008301 ± 9.152e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

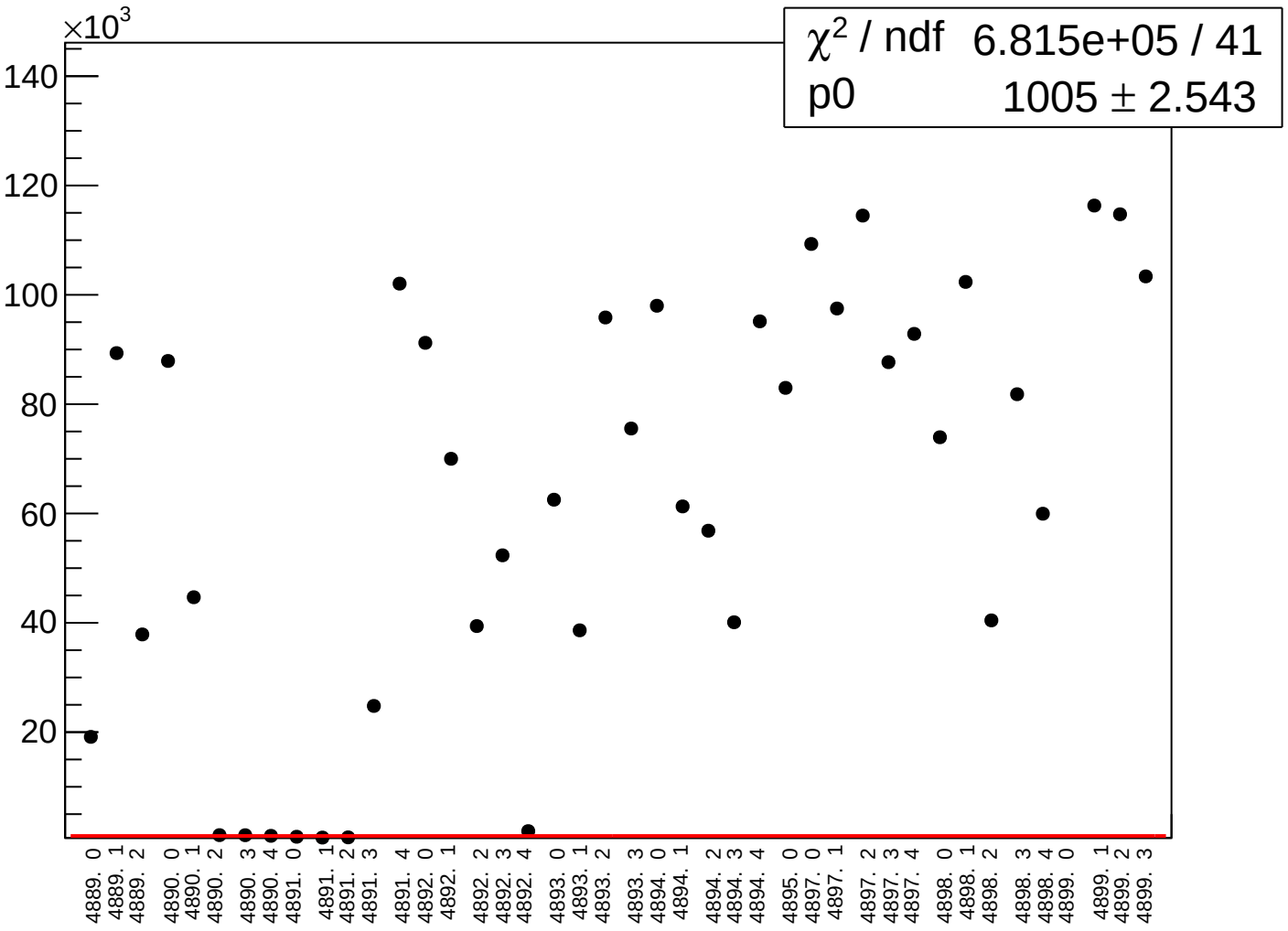

yield_bpm0l01Y_mean vs run
χ² / ndf 7.175e+05 / 41
p0 −5.56 ± 1.127e−05
−5.535
−5.54
−5.545
−5.55
−5.555
−5.56
−5.565
−5.57
−5.575
−5.58
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 167.9
Std Dev 139.3
250
200
150
100
50
0
−50
−100
−150
−200

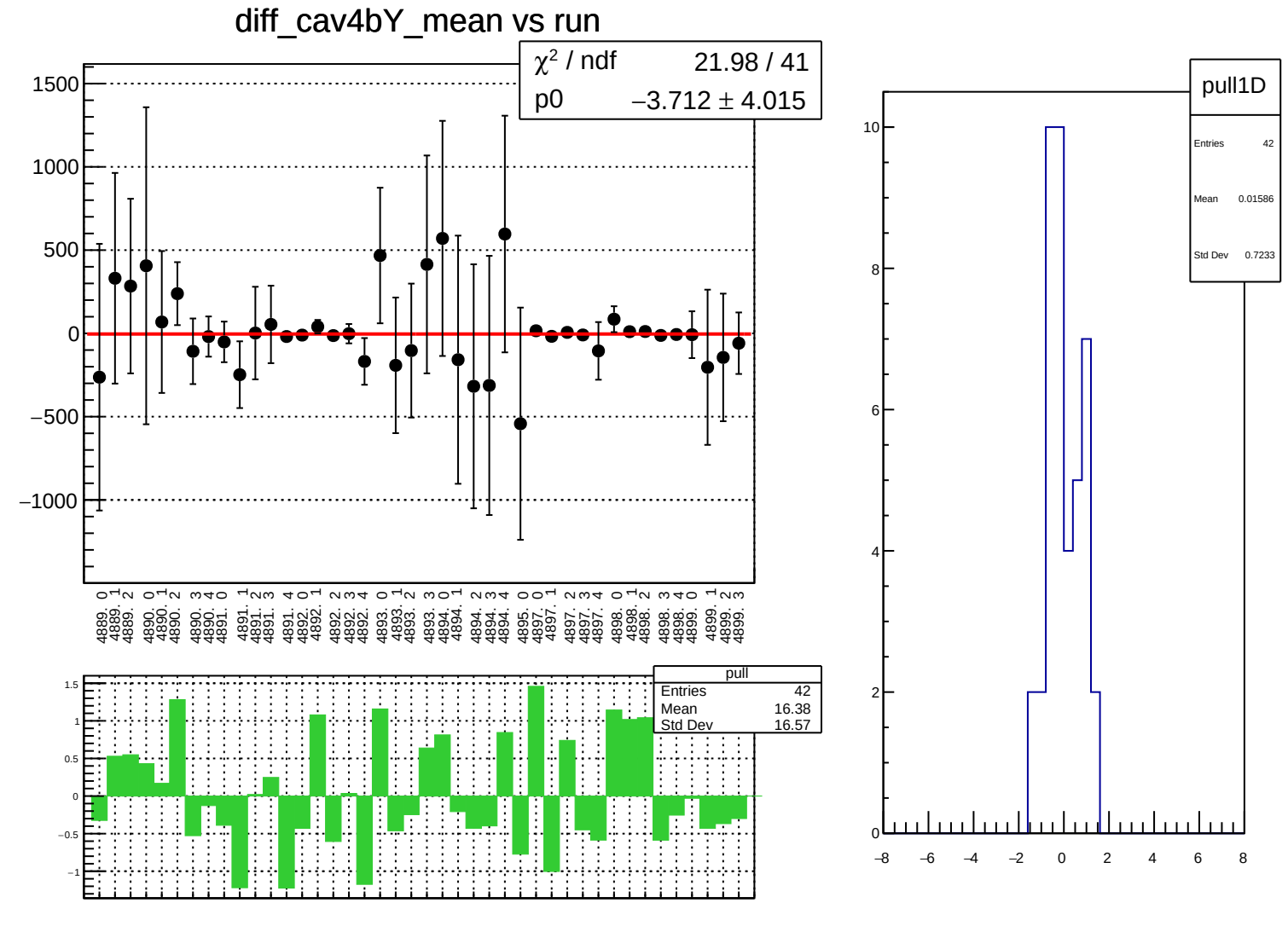

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

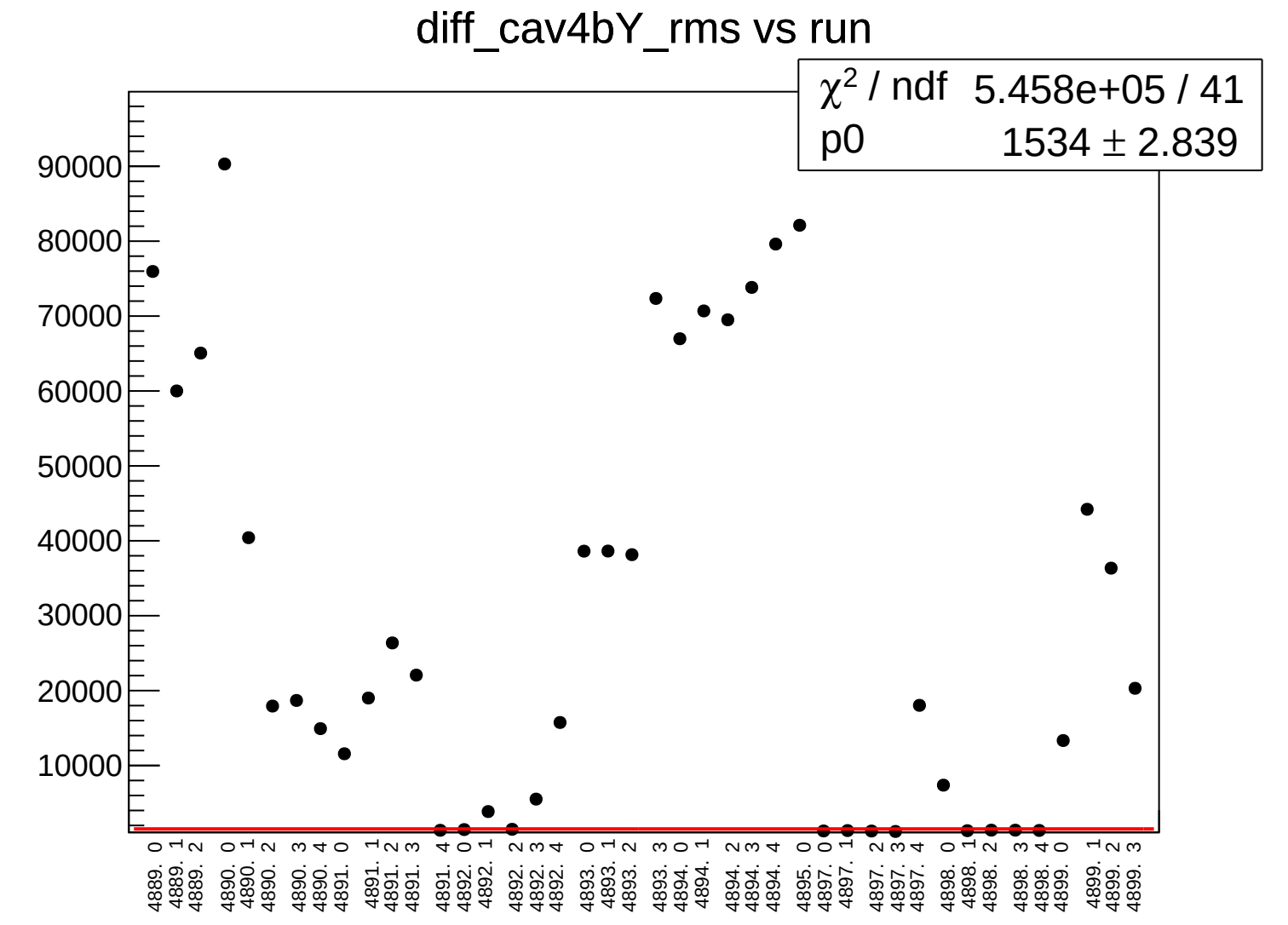

yield_bpm0l01Y_rms vs run
χ² / ndf 1.28e+04 / 41
p0 0.007239 ± 7.972e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

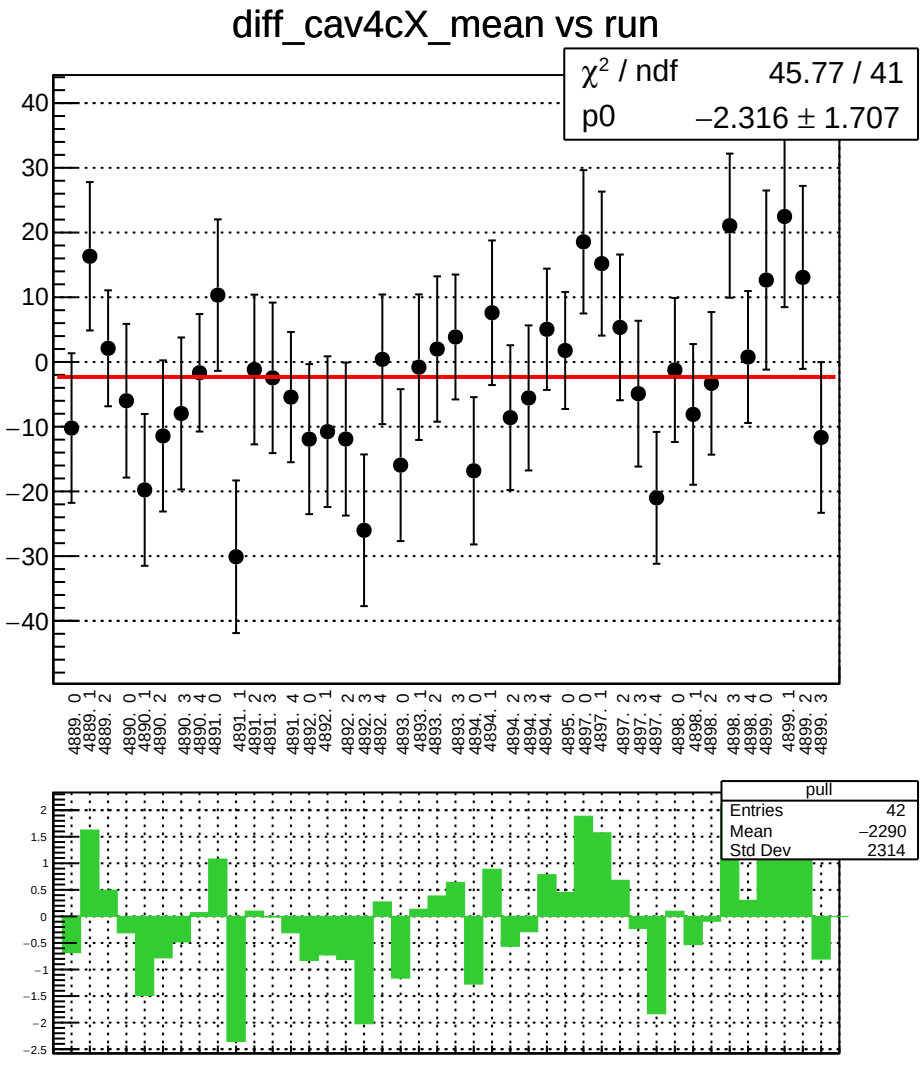

diff_cav4bX_mean vs run
χ² / ndf 31.62 / 41
p0 −0.141 ± 3.597
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −6.646
Std Dev 19.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2

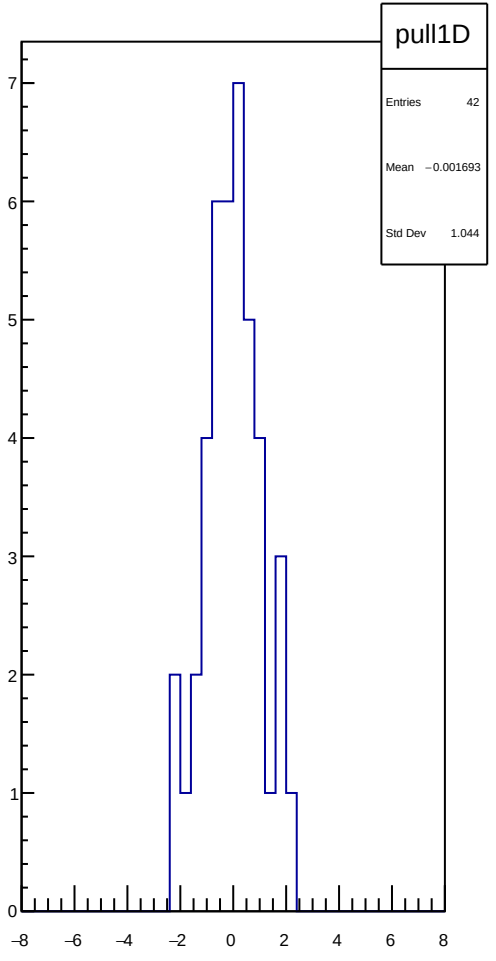

pull1D
Entries 42
Mean 0.05304
Std Dev 0.8661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

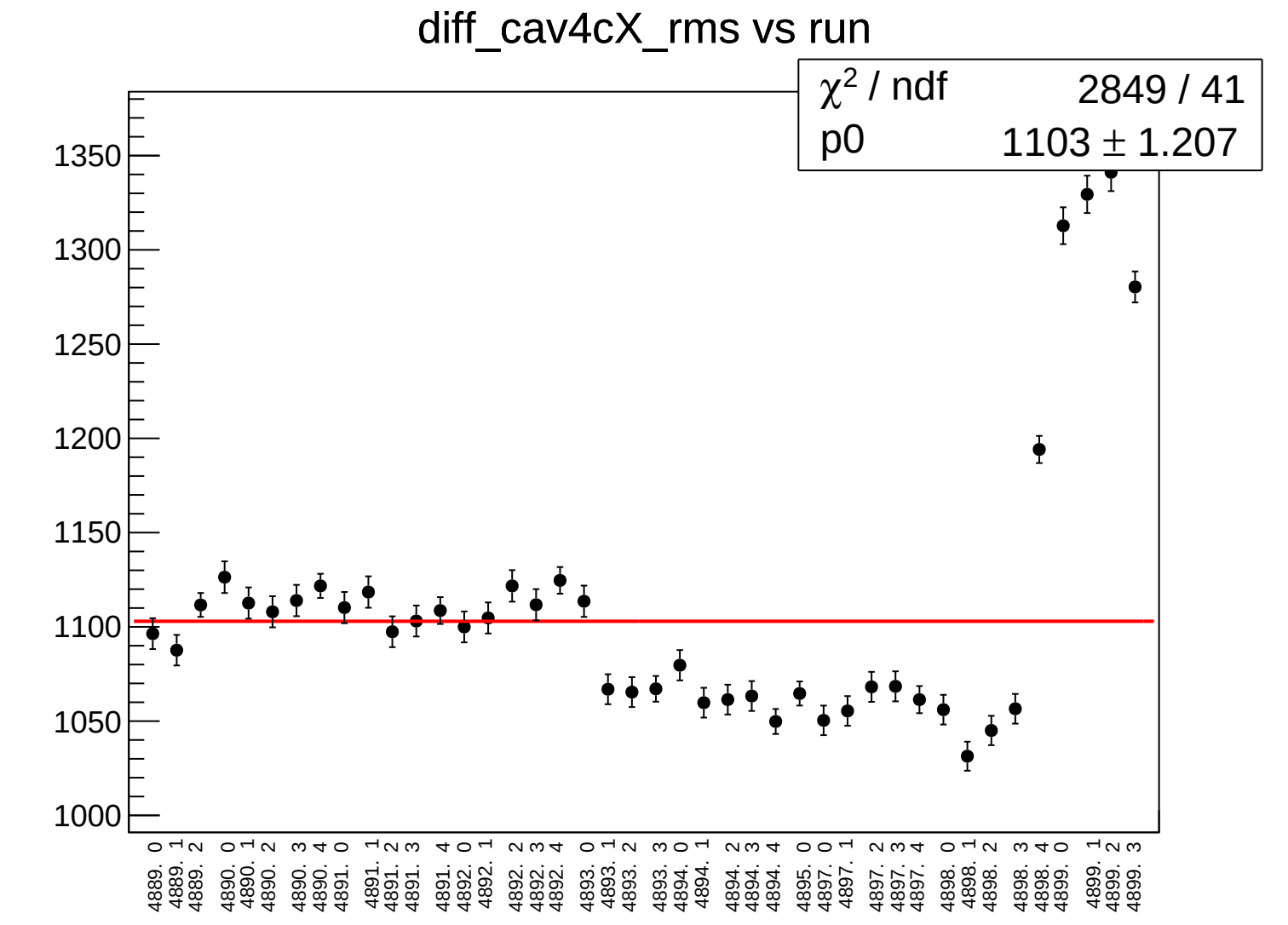

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 6.815e+05 / 41
p0 1005 ± 2.543
140
120
100
80
60
40
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

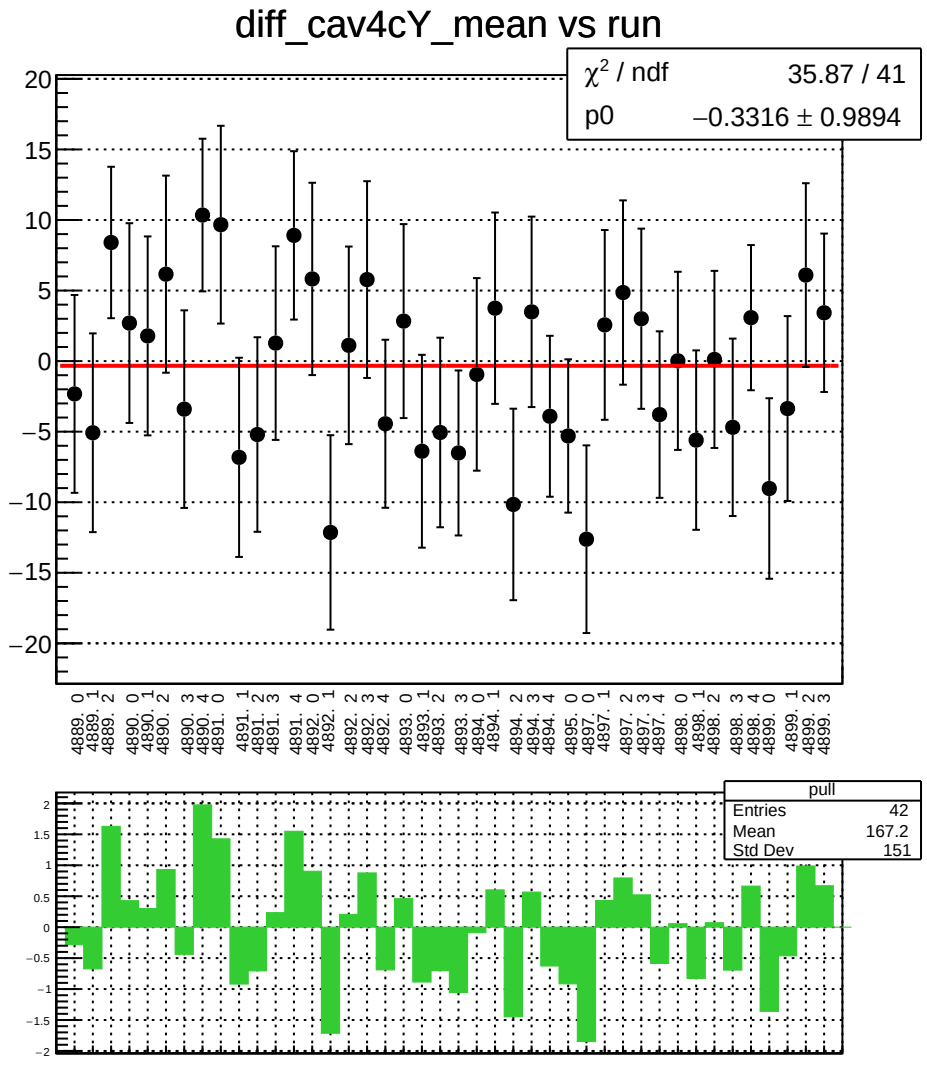

diff_cav4bY_mean vs run
χ² / ndf 21.98 / 41
p0 −3.712 ± 4.015
1500
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 16.38
Std Dev 16.57
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean 0.01586
Std Dev 0.7233
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

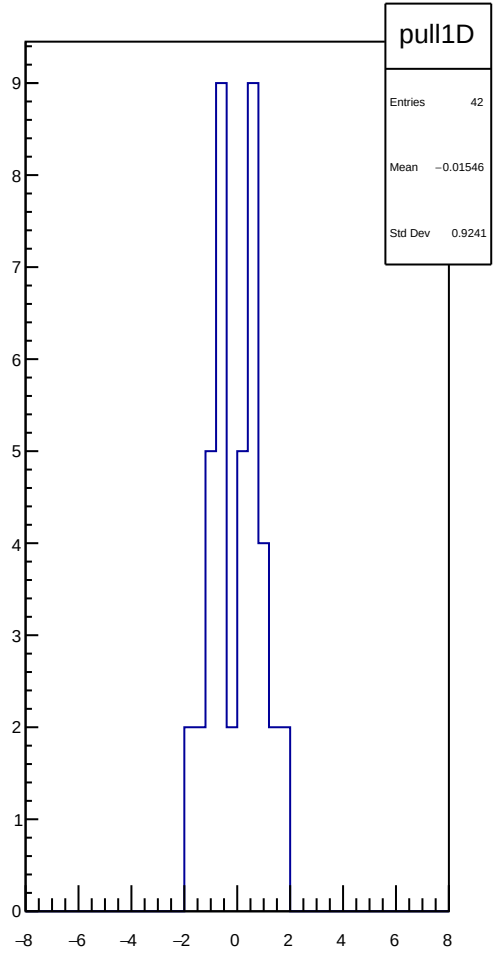

diff_cav4bY_rms vs run
χ^2 / ndf 5.458e+05 / 41
p0 1534 ± 2.839
90000
80000
70000
60000
50000
40000
30000
20000
10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

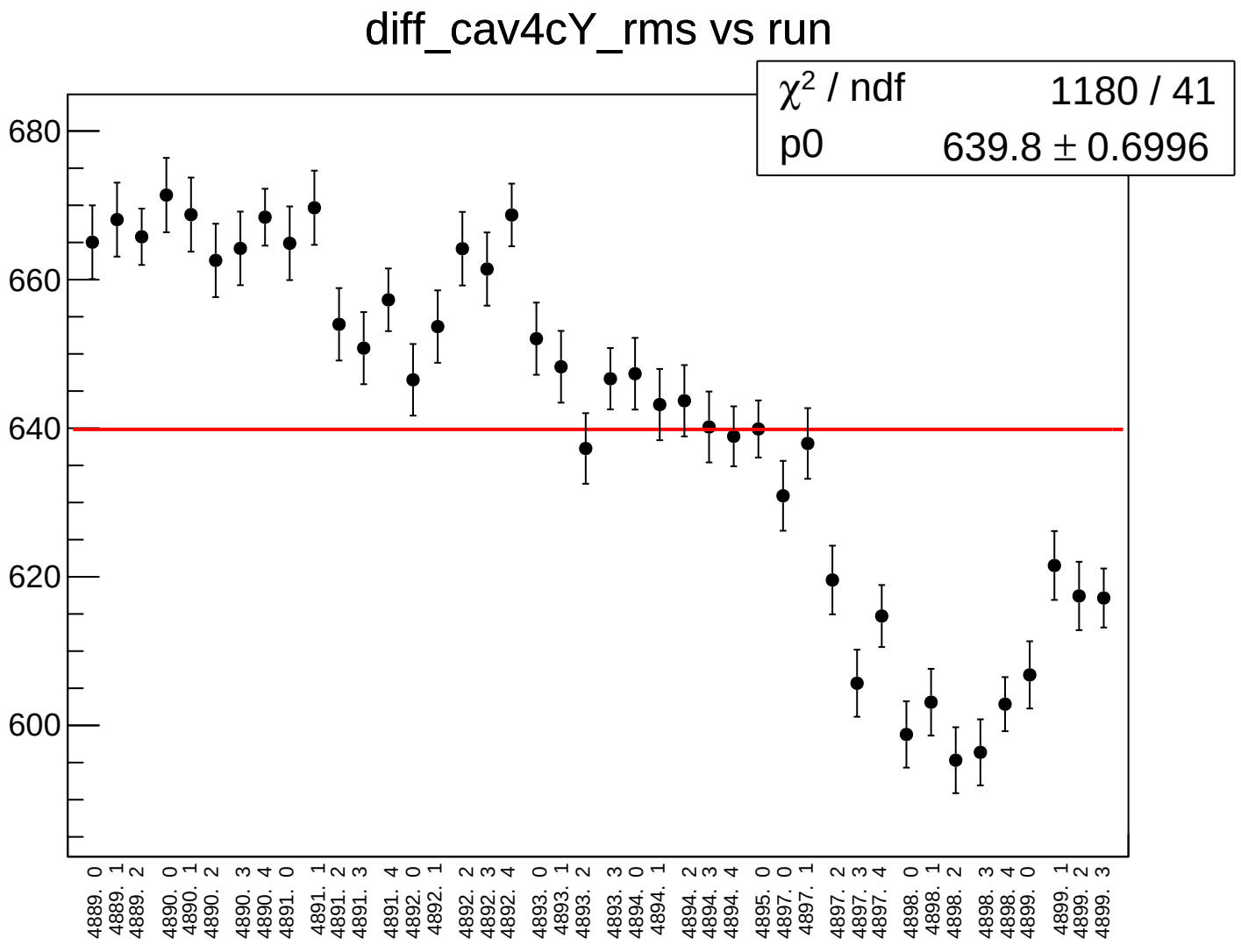

diff_cav4cX_mean vs run
χ² / ndf 45.77 / 41
p0 −2.316 ± 1.707
pull
Entries 42
Mean −2290
Std Dev 2314

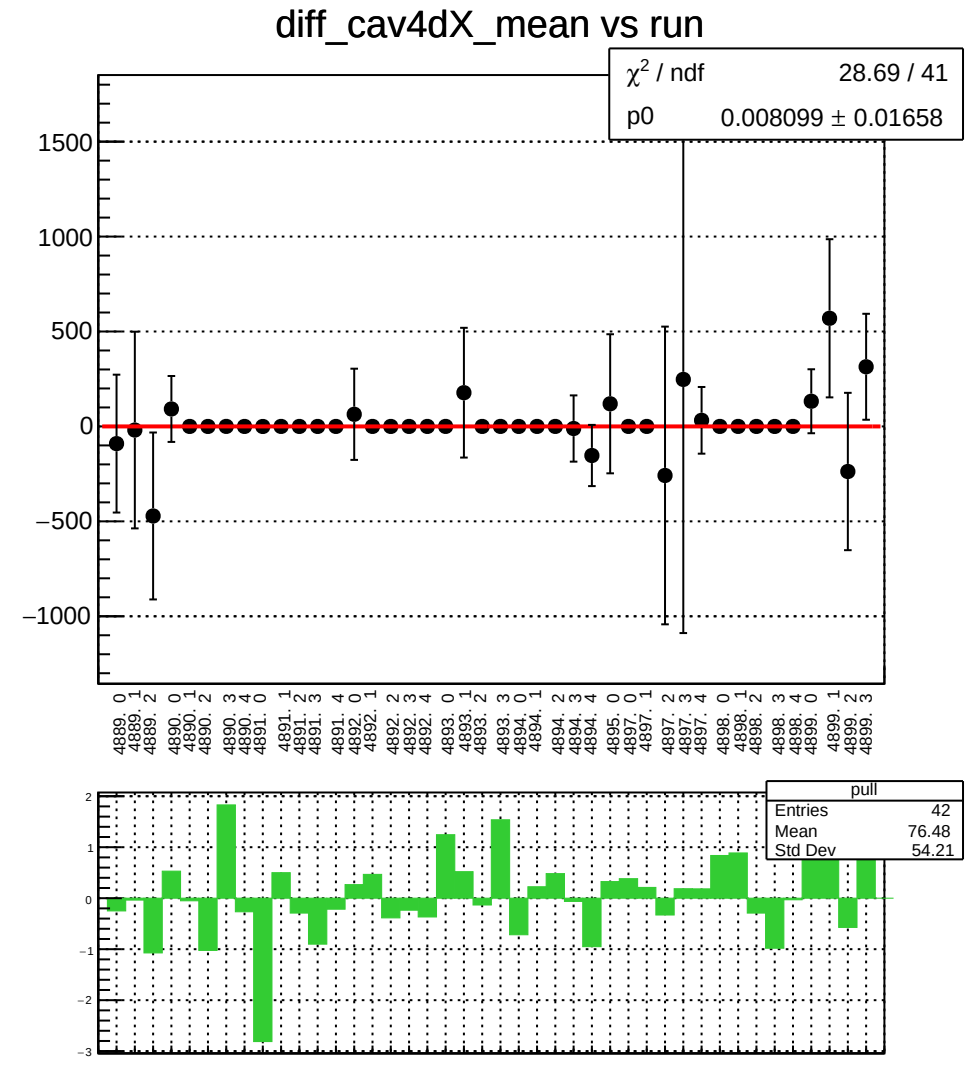

pull1D
Entries 42
Mean −0.001693
Std Dev 1.044

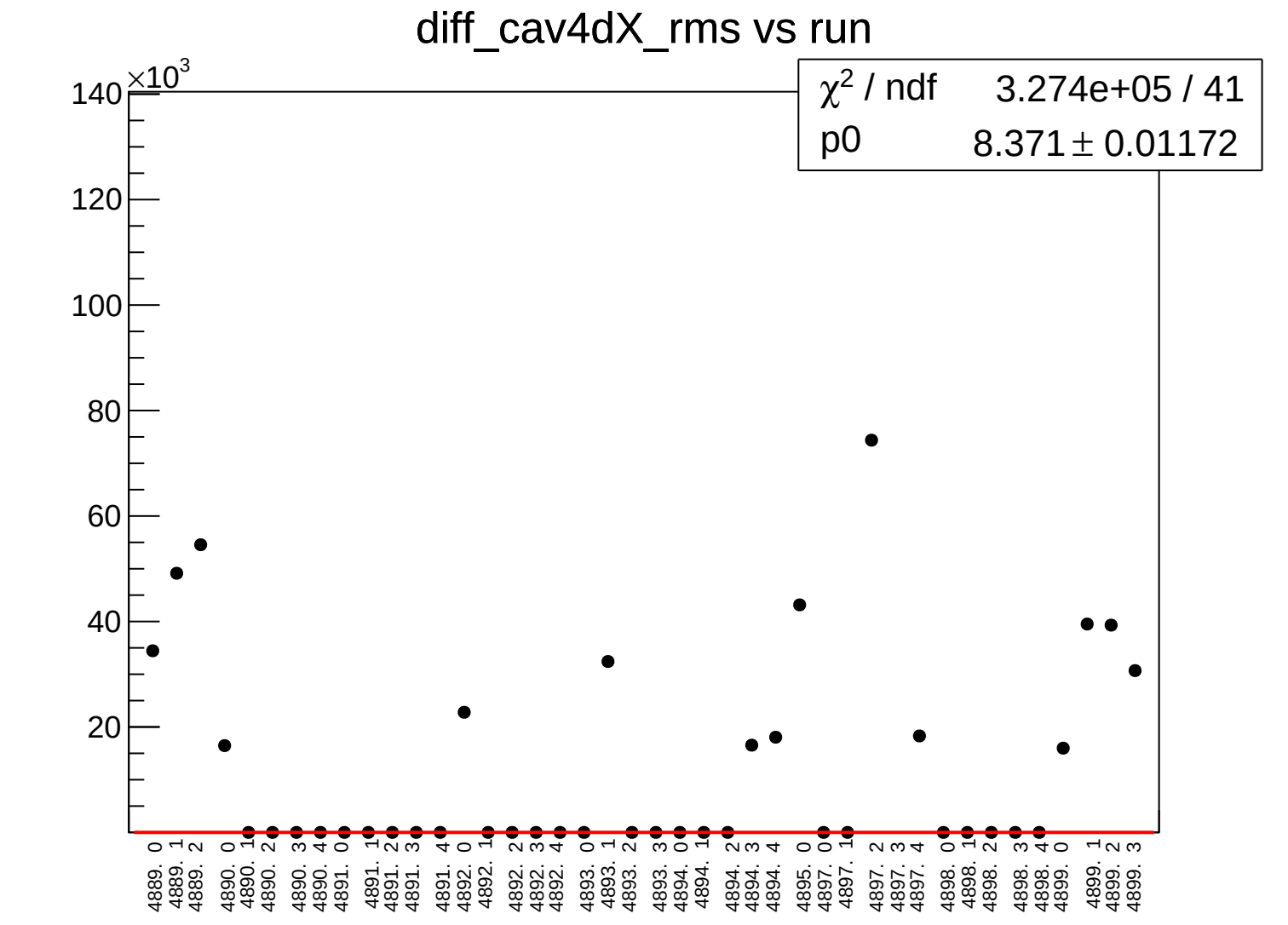

diff_cav4cX_rms vs run
χ² / ndf 2849 / 41
p0 1103 ± 1.207
1350
1300
1250
1200
1150
1100
1050
1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

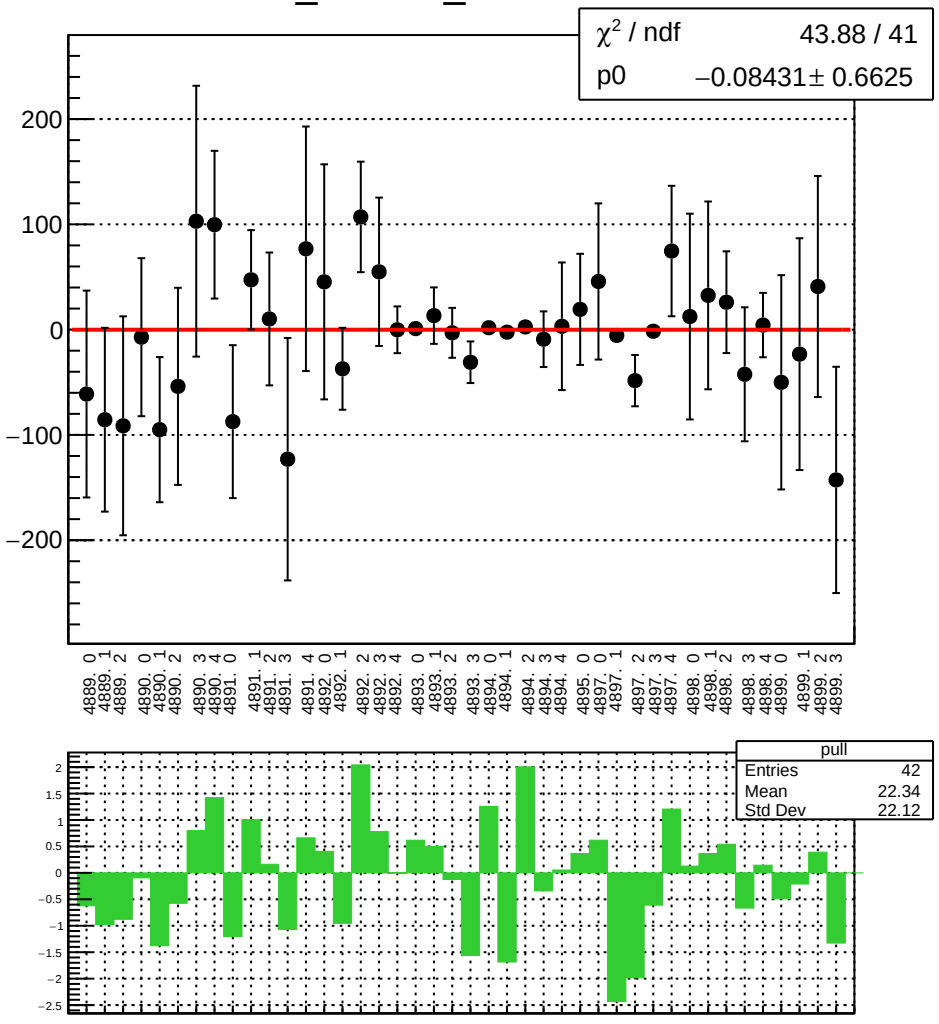

diff_cav4cY_mean vs run
χ² / ndf 35.87 / 41
p0 −0.3316 ± 0.9894
pull
Entries 42
Mean 167.2
Std Dev 151

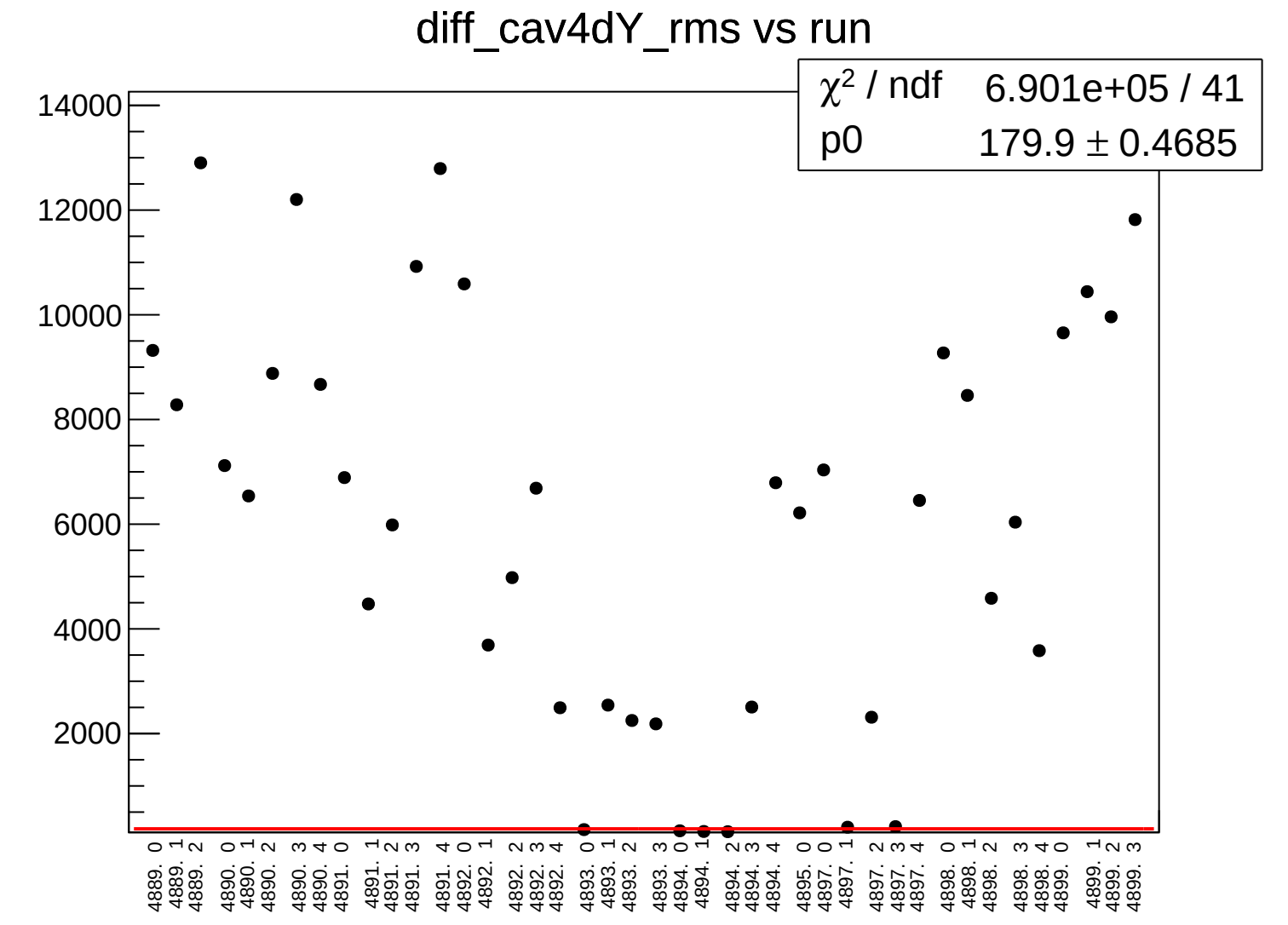

pull1D
Entries 42
Mean −0.01546
Std Dev 0.9241

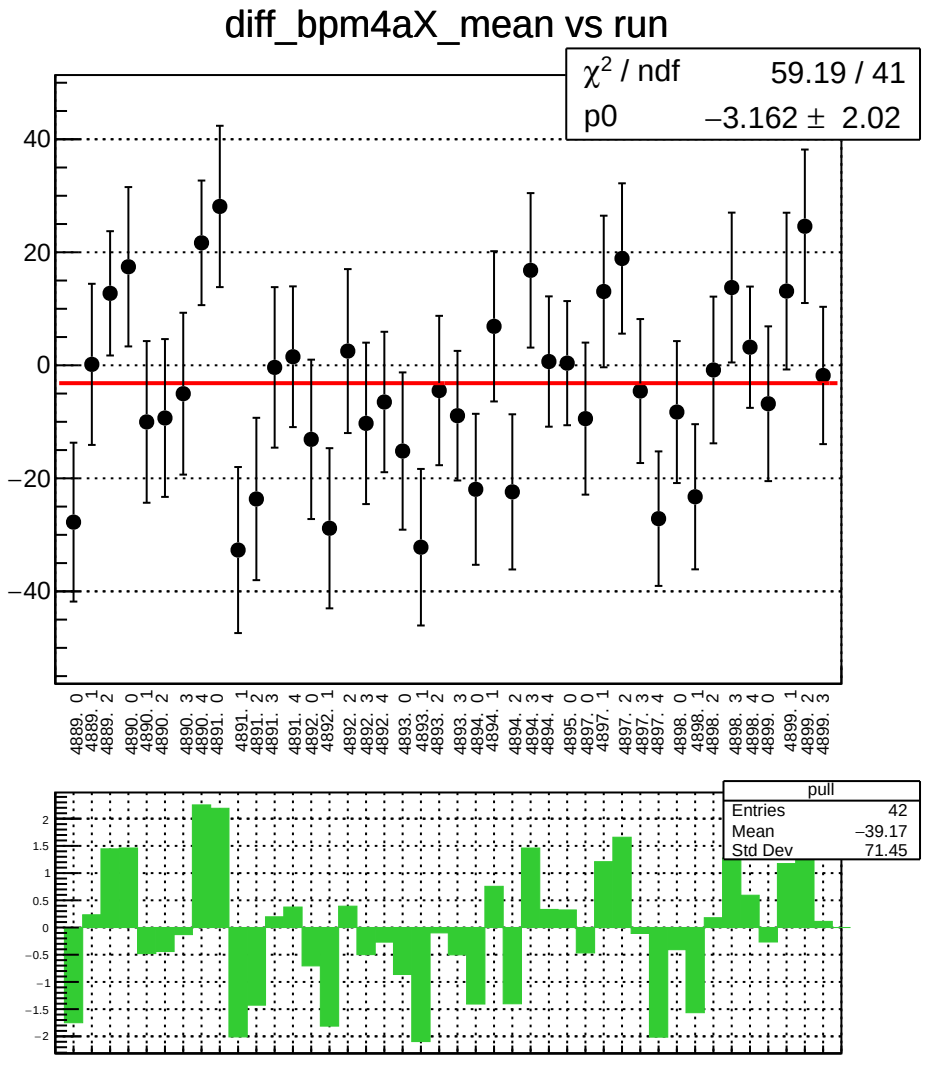

diff_cav4cY_rms vs run
χ² / ndf 1180 / 41
p0 639.8 ± 0.6996
680
660
640
620
600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

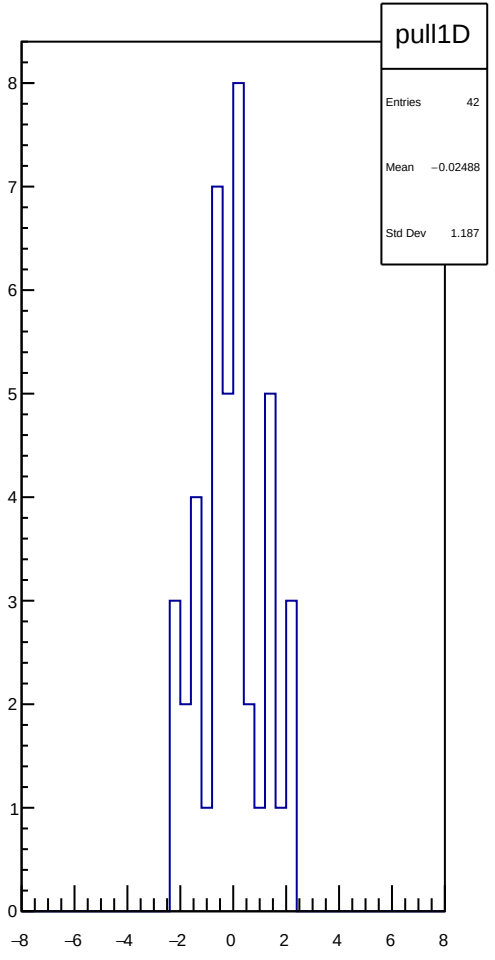

diff_cav4dX_mean vs run
χ² / ndf 28.69 / 41
p0 0.008099 ± 0.01658
1500
1000
500
0
−500
−1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 76.48
Std Dev 54.21
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.04559
Std Dev 0.8252
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

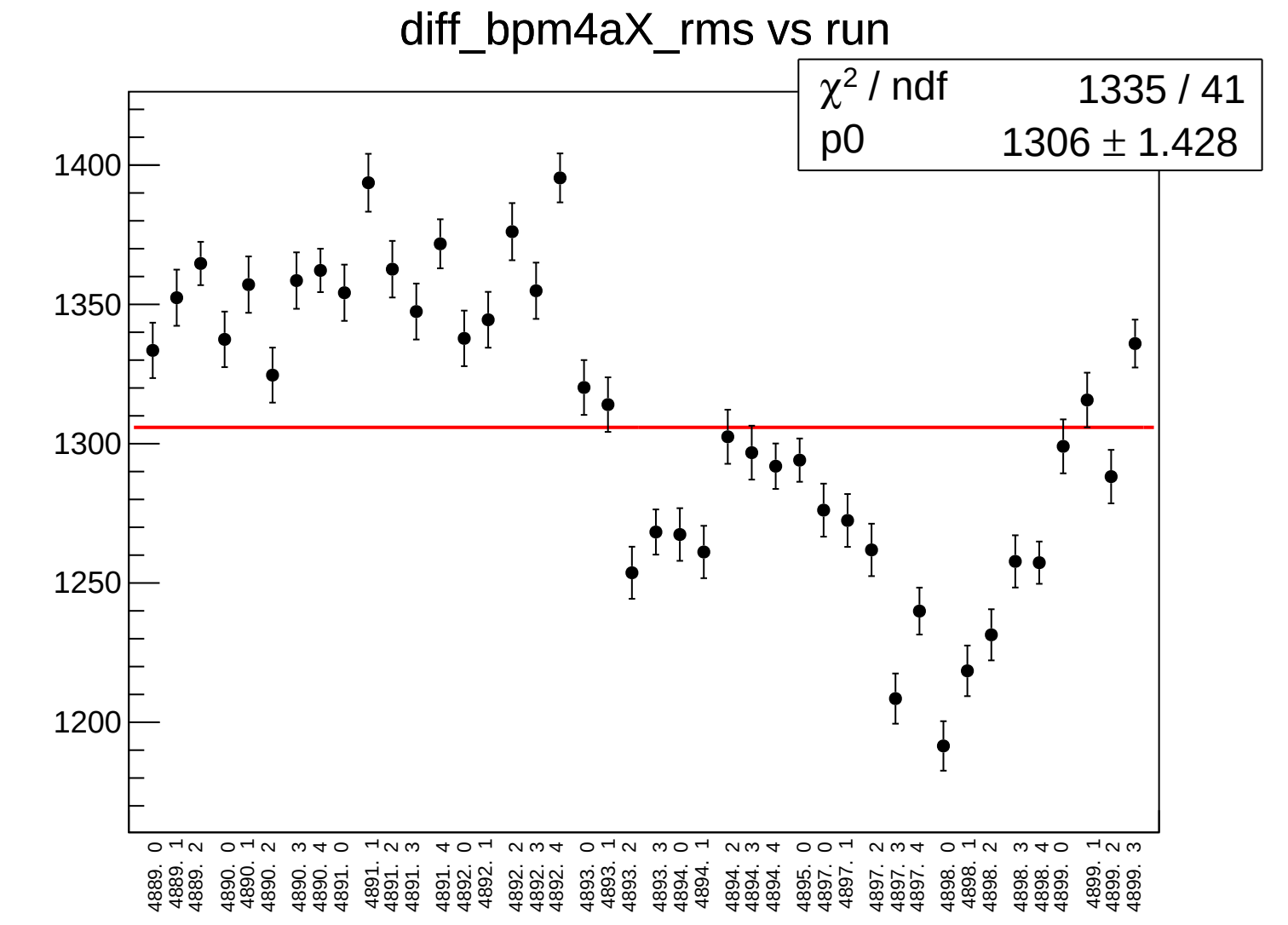

diff_cav4dX_rms vs run
χ^2 / ndf 3.274e+05 / 41
p0 8.371 ± 0.01172
×10^3
140
120
100
80
60
40
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

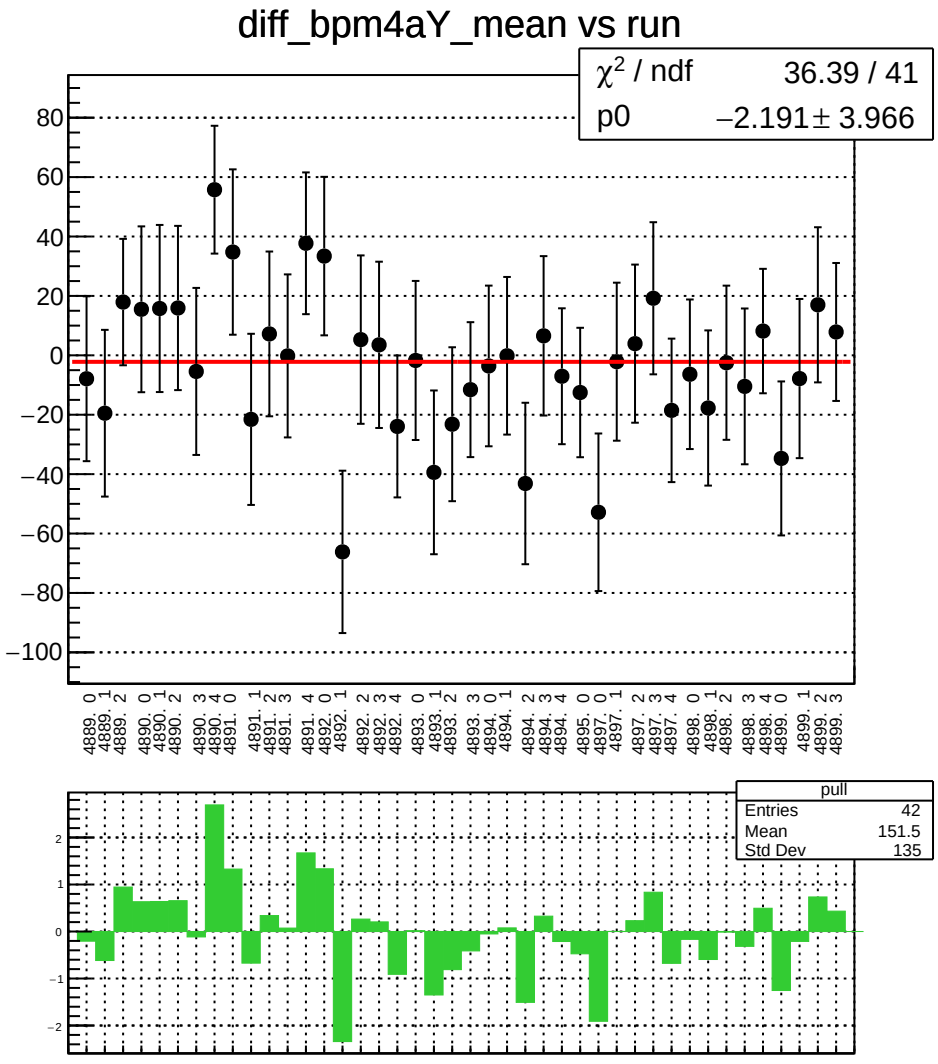

diff_cav4dY_mean vs run
χ² / ndf 43.88 / 41
p0 −0.08431± 0.6625
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 22.34
Std Dev 22.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean −0.08833
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

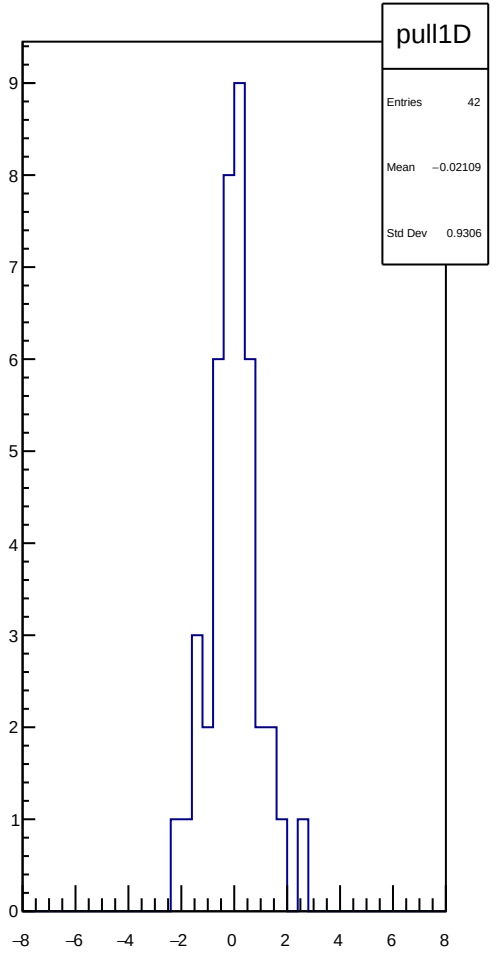

diff_cav4dY_rms vs run
χ² / ndf 6.901e+05 / 41
p0 179.9 ± 0.4685
14000
12000
10000
8000
6000
4000
2000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

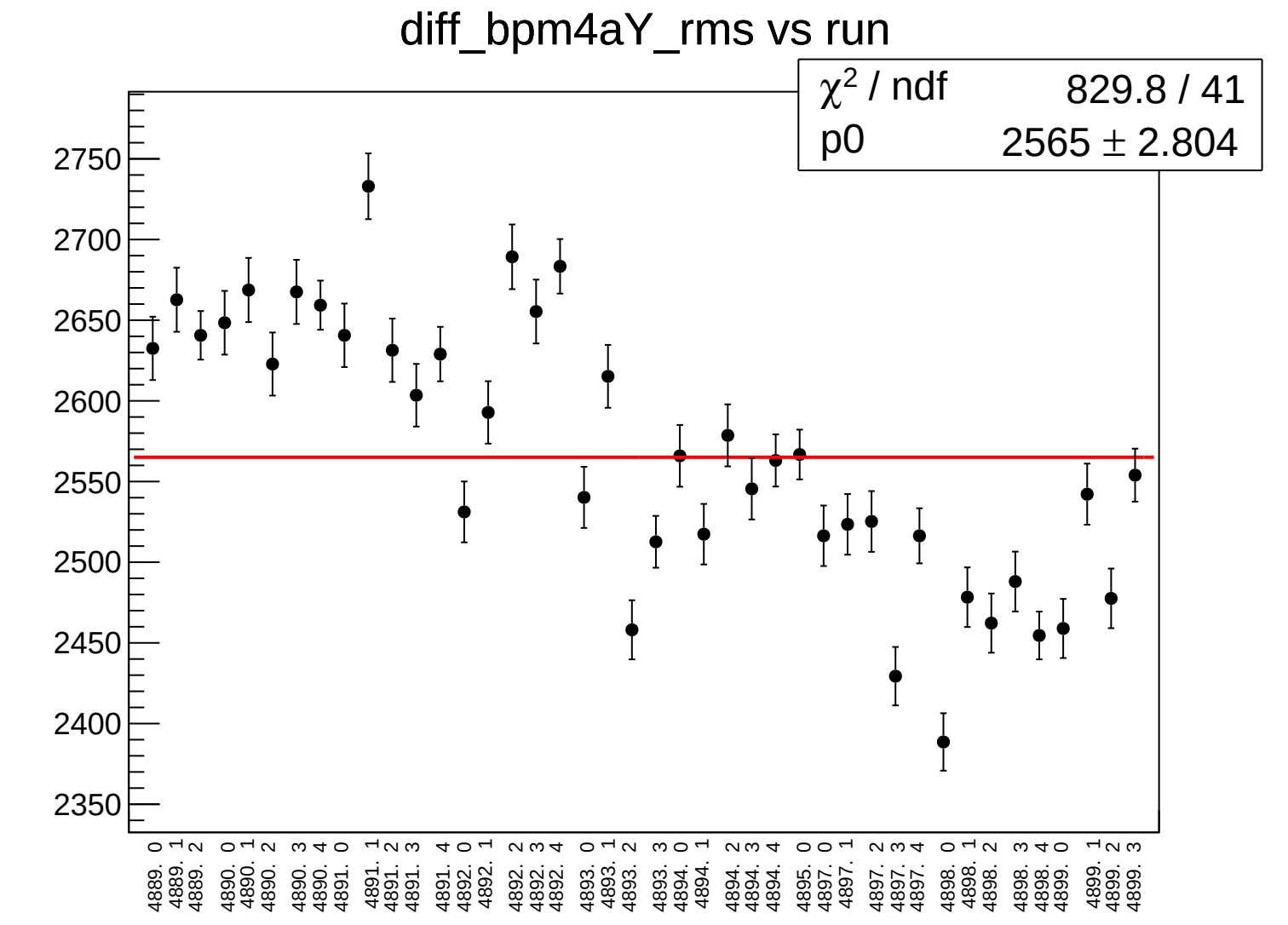

diff_bpm4aX_mean vs run
χ² / ndf 59.19 / 41
p0 −3.162 ± 2.02
40
20
0
−20
−40
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −39.17
Std Dev 71.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

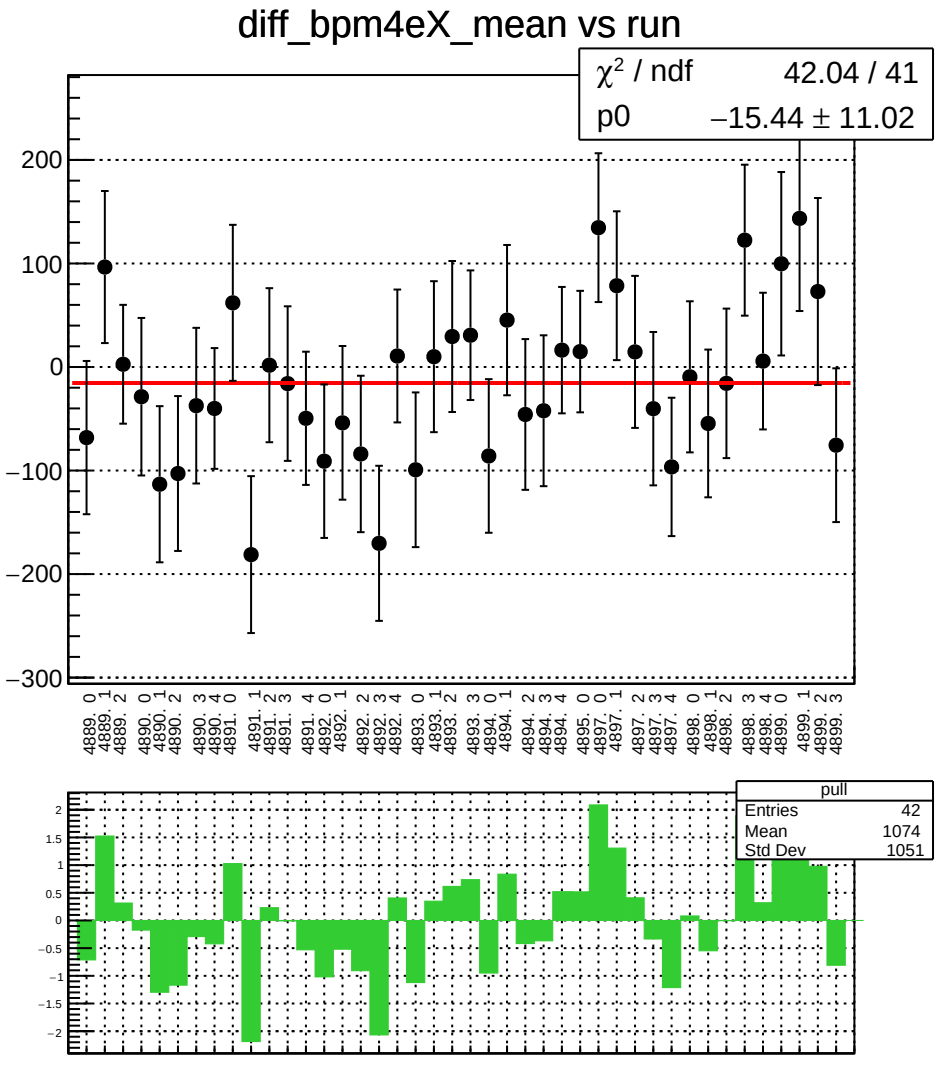

pull1D
Entries 42
Mean −0.02488
Std Dev 1.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

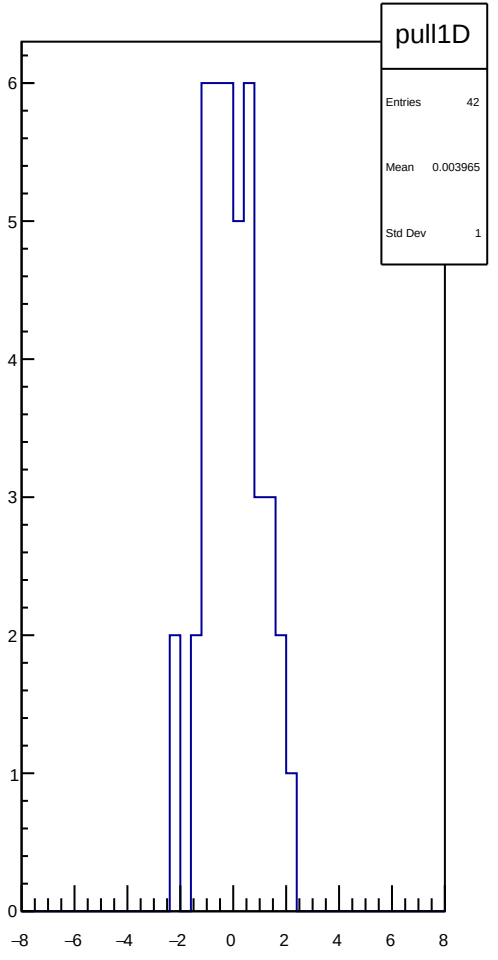

diff_bpm4aX_rms vs run
χ² / ndf 1335 / 41
p0 1306 ± 1.428
1400
1350
1300
1250
1200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

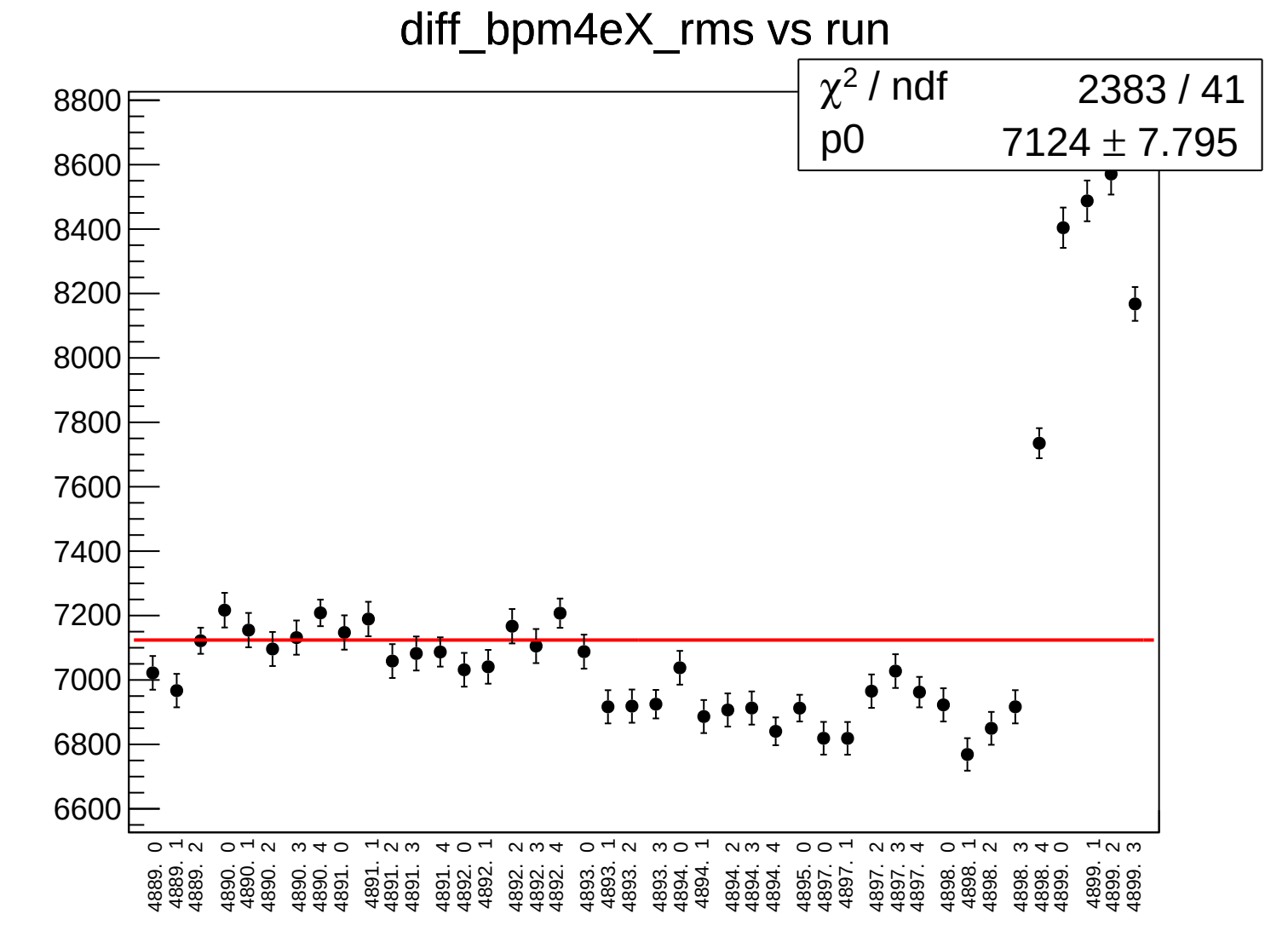

diff_bpm4aY_mean vs run
χ² / ndf 36.39 / 41
p0 −2.191 ± 3.966
pull
Entries 42
Mean 151.5
Std Dev 135

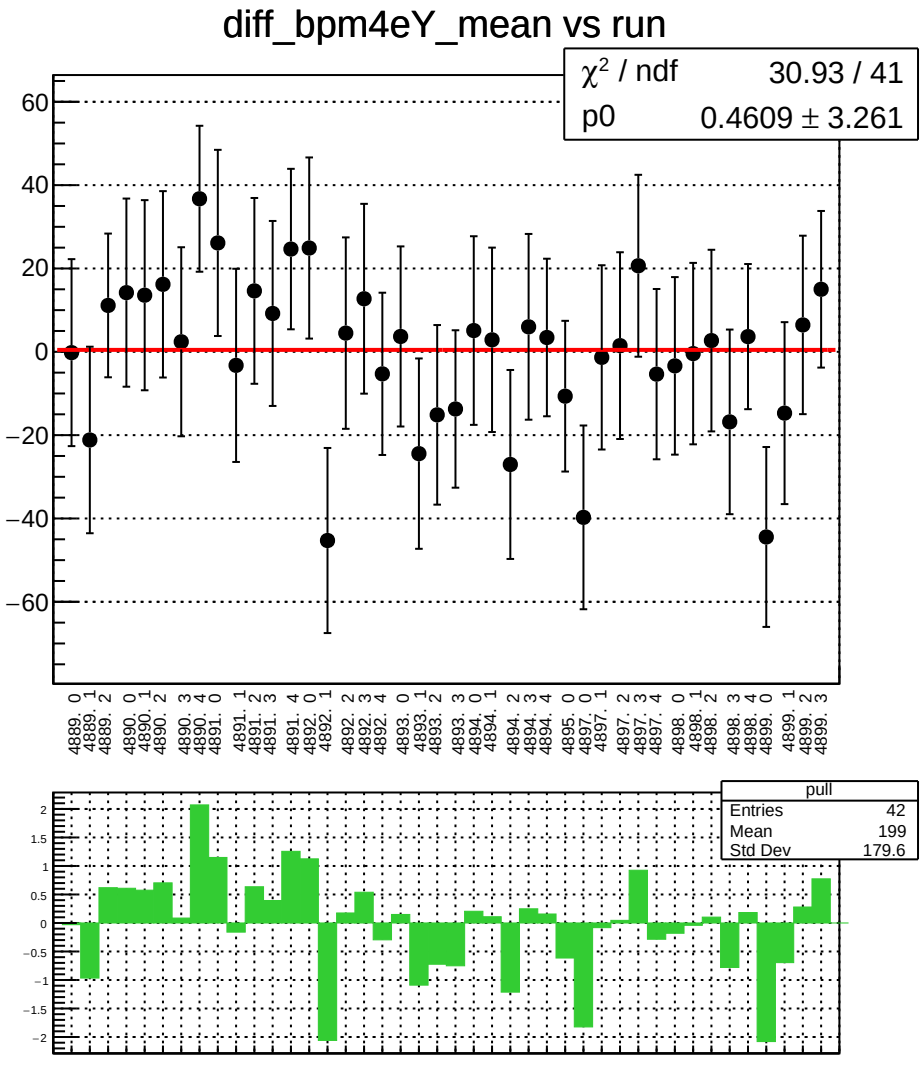

pull1D
Entries 42
Mean −0.02109
Std Dev 0.9306

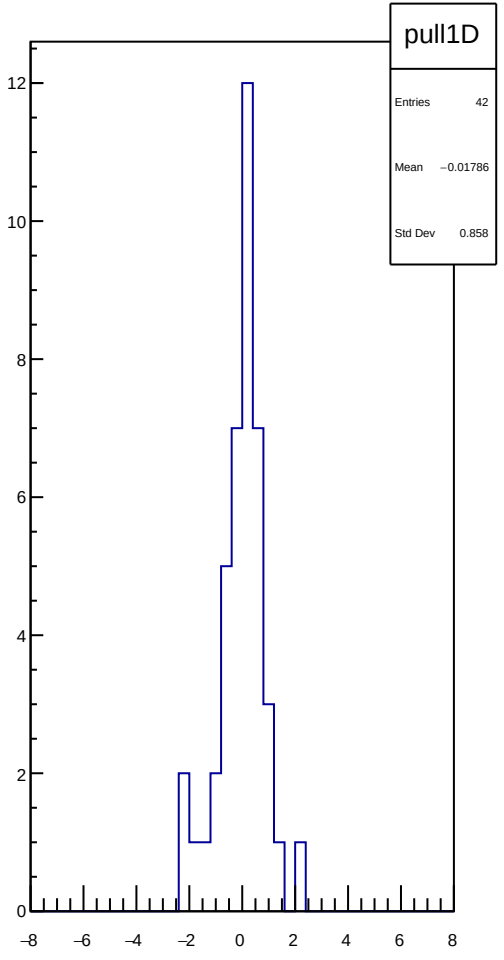

diff_bpm4aY_rms vs run
χ² / ndf 829.8 / 41
p0 2565 ± 2.804
2750
2700
2650
2600
2550
2500
2450
2400
2350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

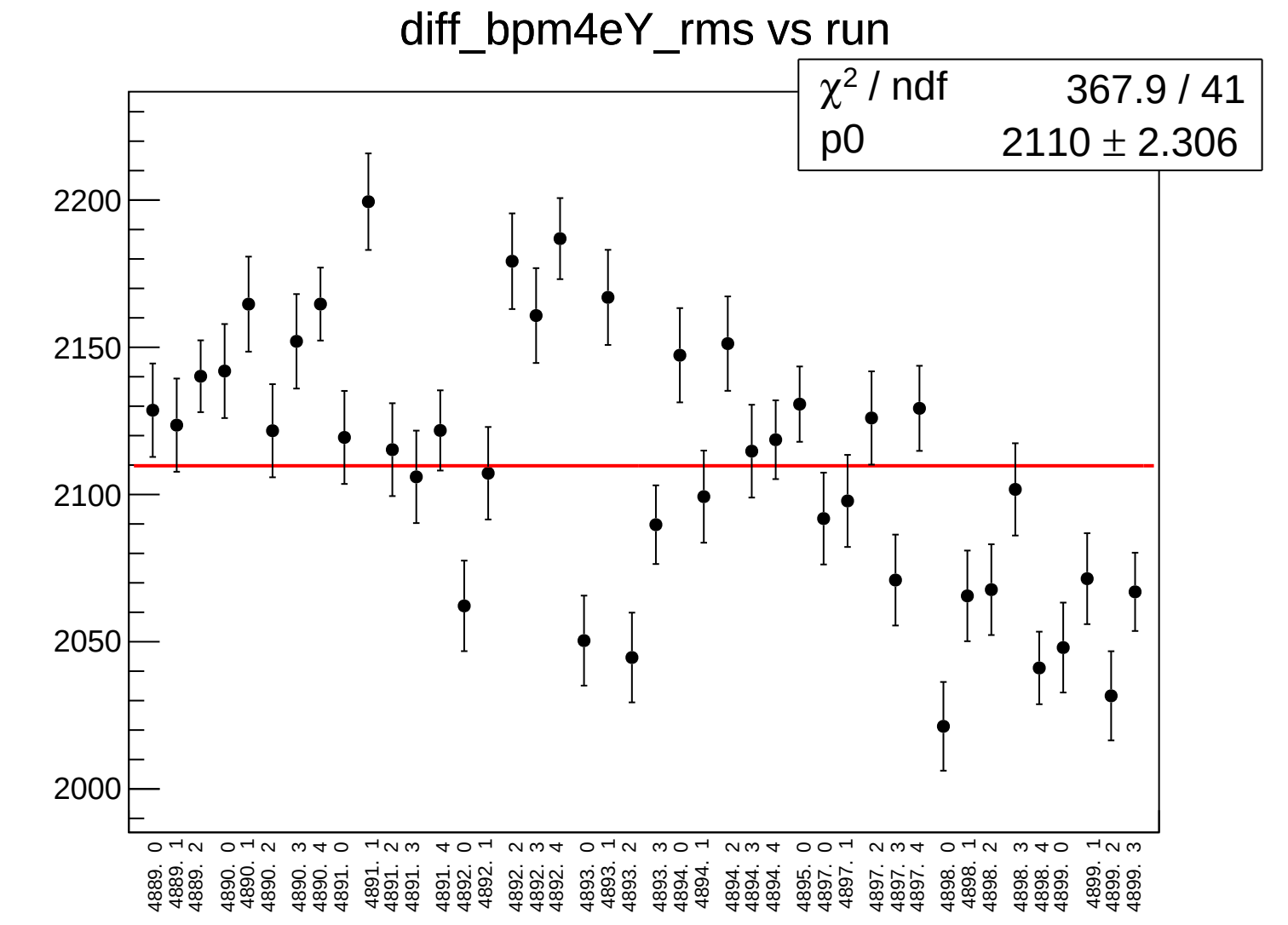

diff_bpm4eX_mean vs run
χ² / ndf 42.04 / 41
p0 −15.44 ± 11.02
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1074
Std Dev 1051
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

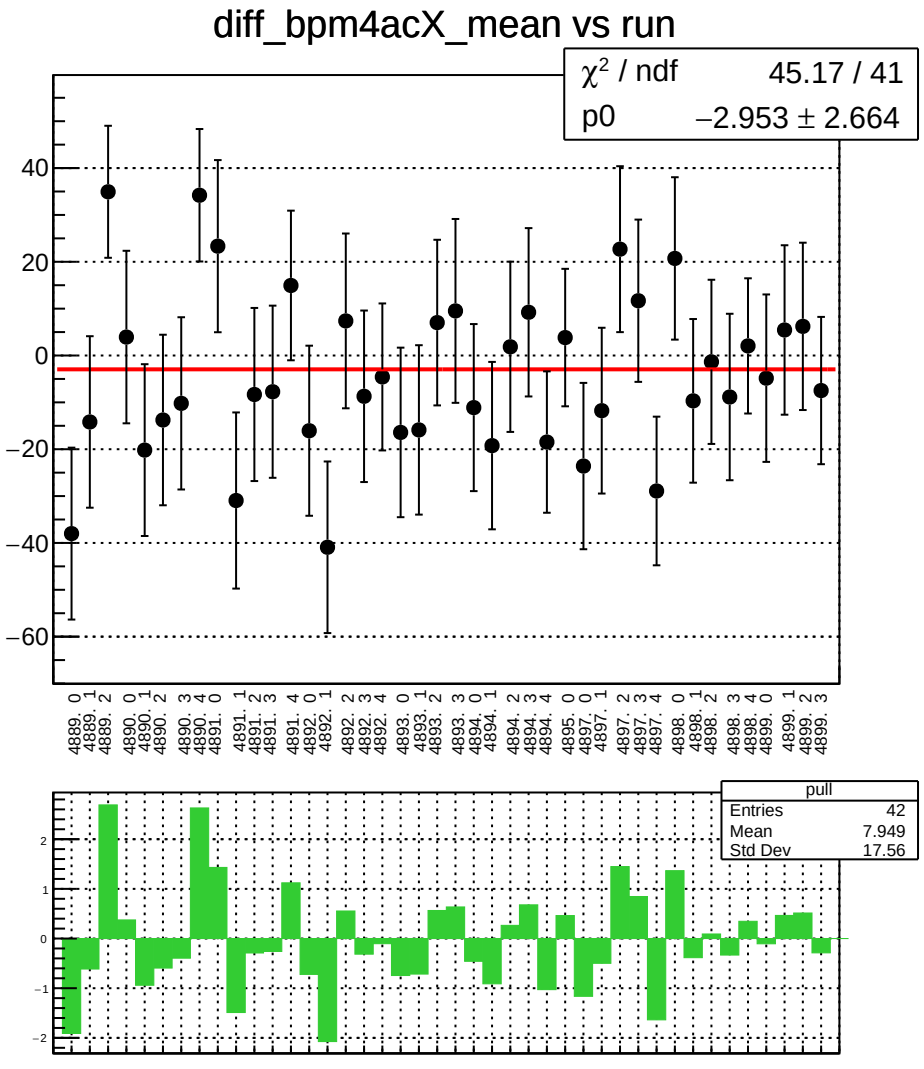

pull1D
Entries 42
Mean 0.003965
Std Dev 1
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

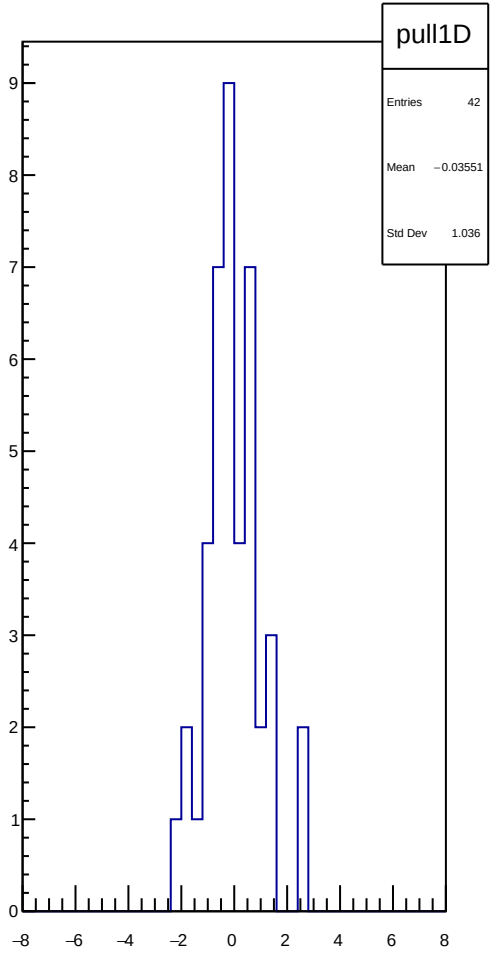

diff_bpm4eX_rms vs run
χ² / ndf 2383 / 41
p0 7124 ± 7.795
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

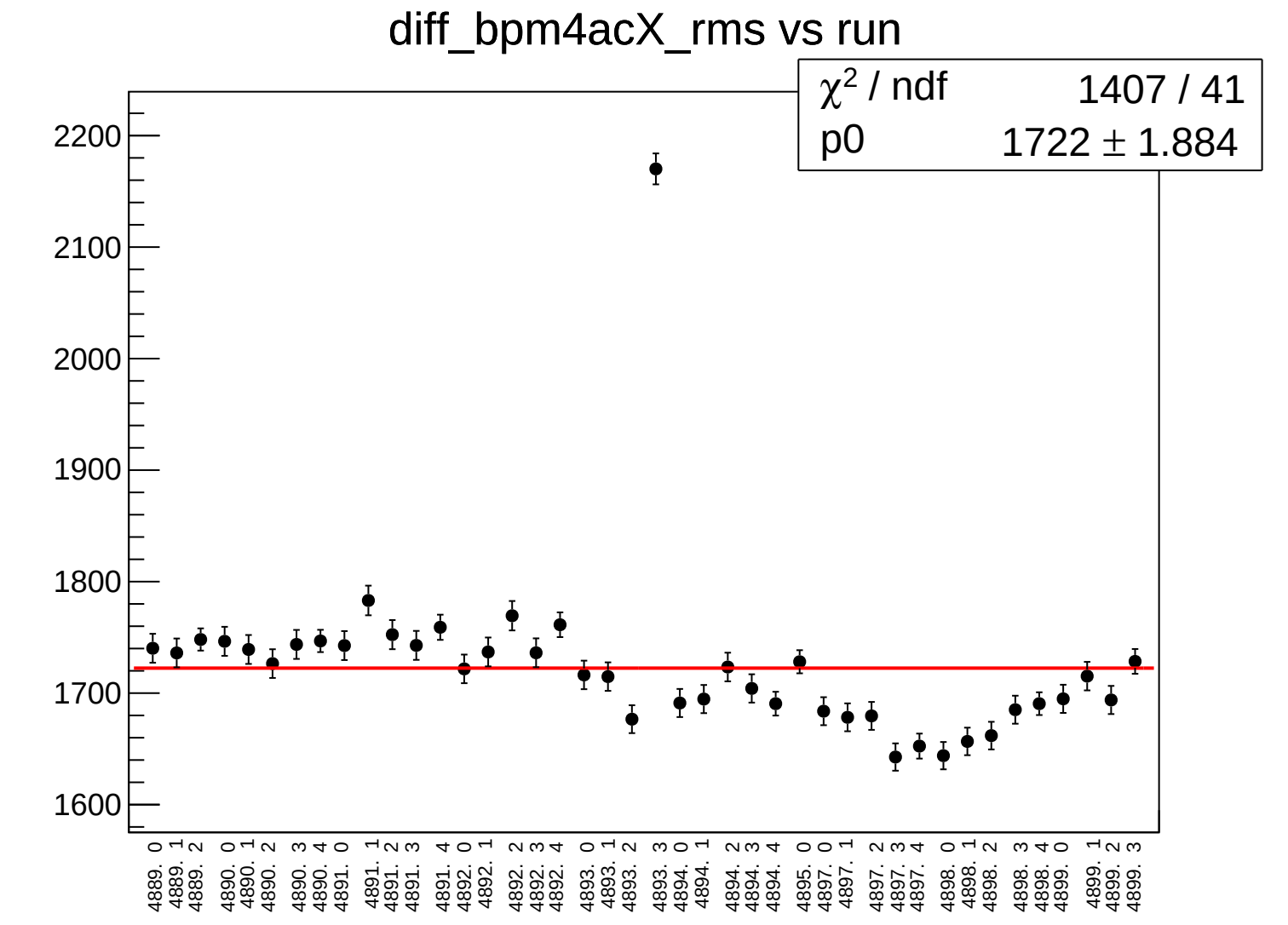

diff_bpm4eY_mean vs run
χ² / ndf 30.93 / 41
p0 0.4609 ± 3.261
60
40
20
0
−20
−40
−60
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 199
Std Dev 179.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

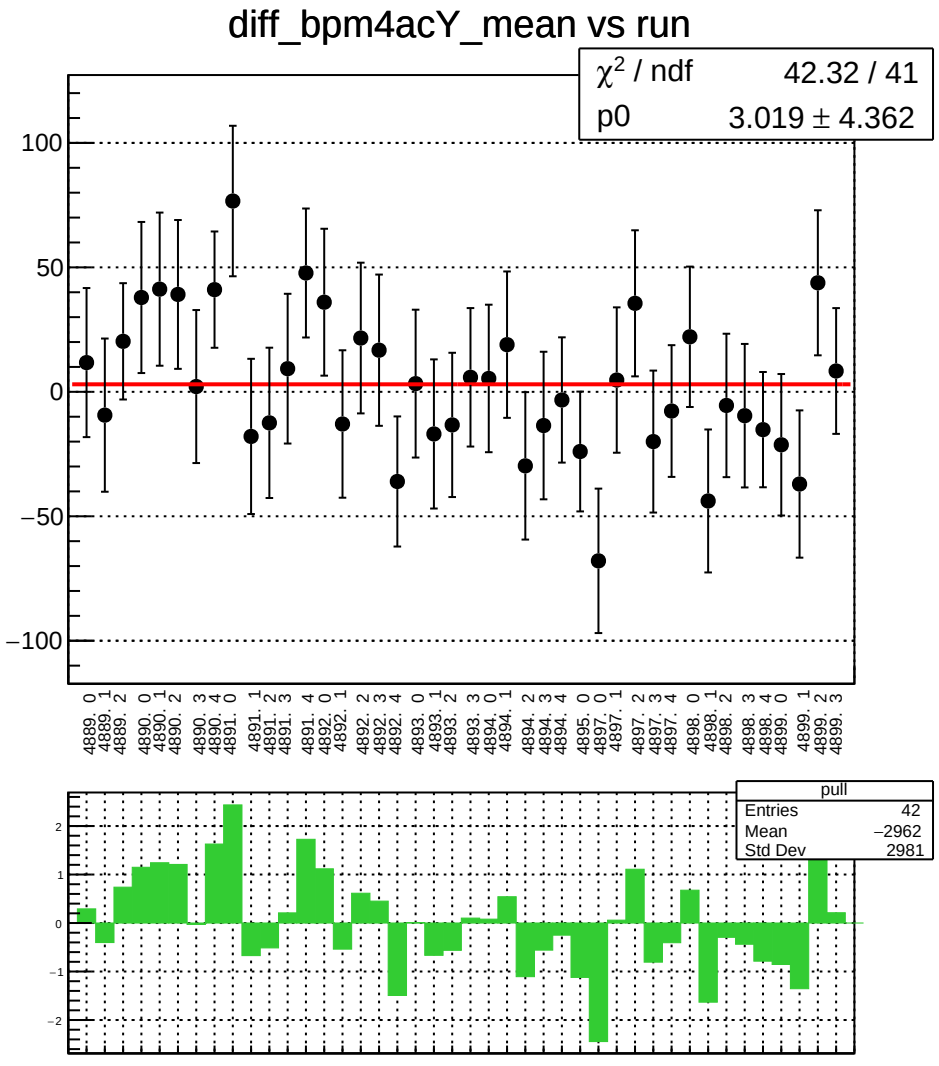

pull1D
Entries 42
Mean −0.01786
Std Dev 0.858
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

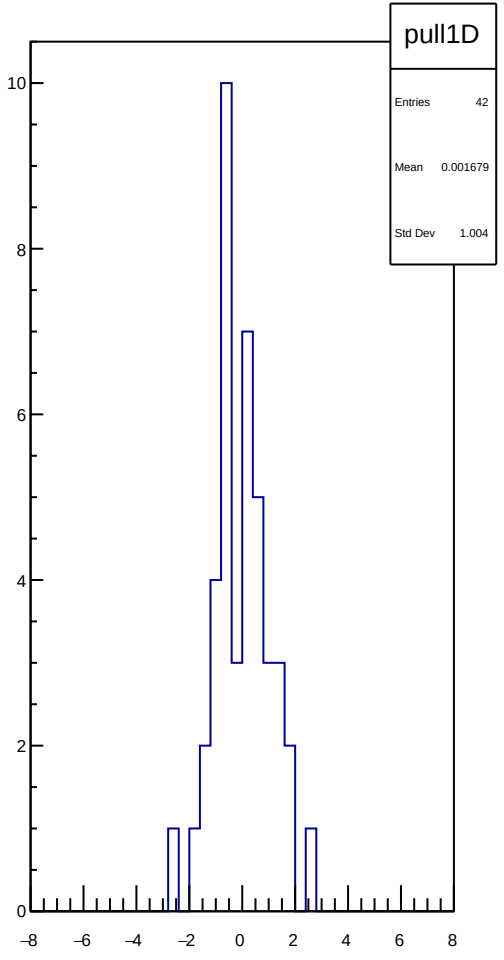

diff_bpm4eY_rms vs run
χ² / ndf 367.9 / 41
p0 2110 ± 2.306
2200
2150
2100
2050
2000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

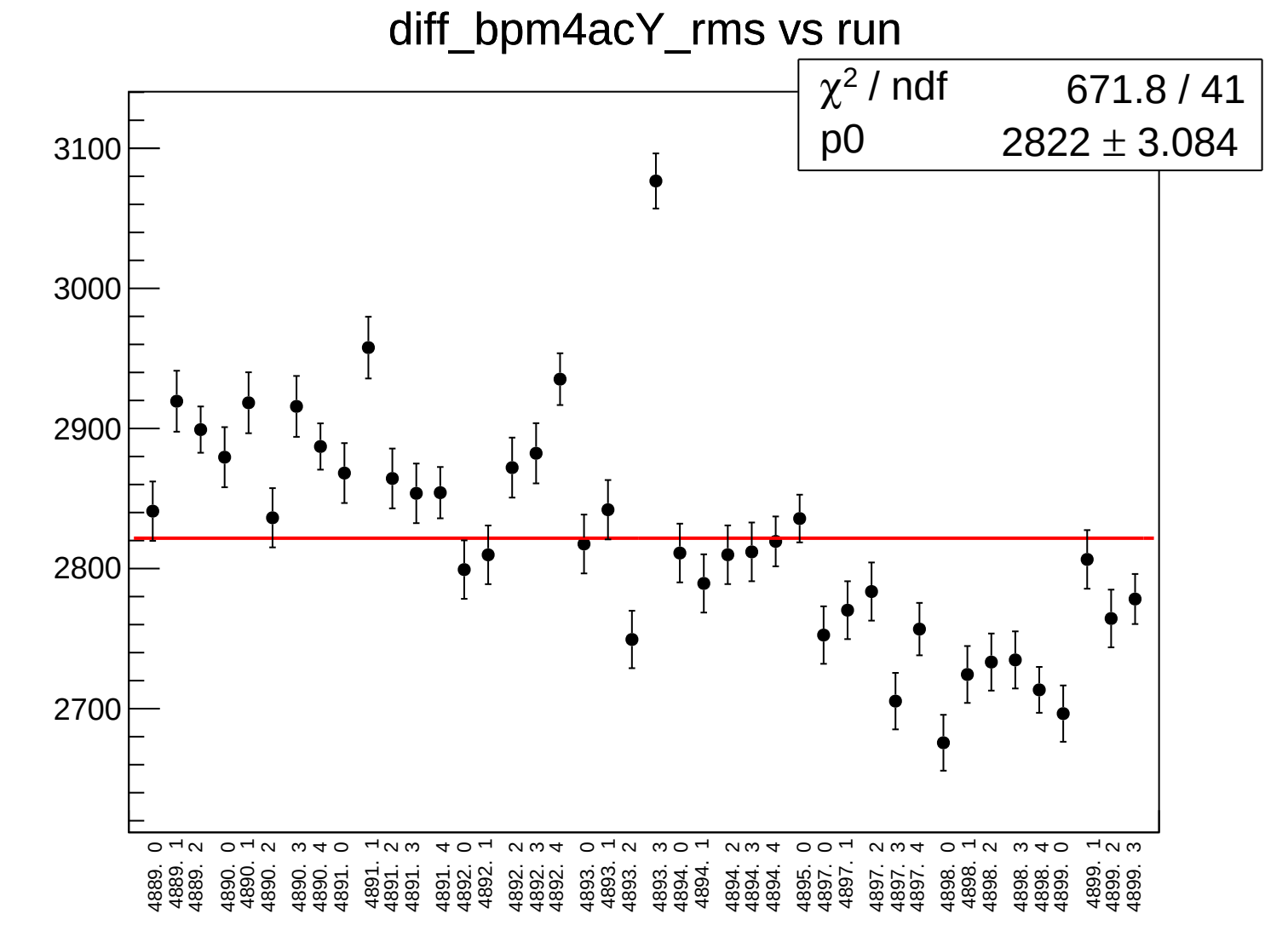

diff_bpm4acX_mean vs run
χ² / ndf 45.17 / 41
p0 −2.953 ± 2.664
40
20
0
−20
−40
−60
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 7.949
Std Dev 17.56
2
1
0
−1
−2

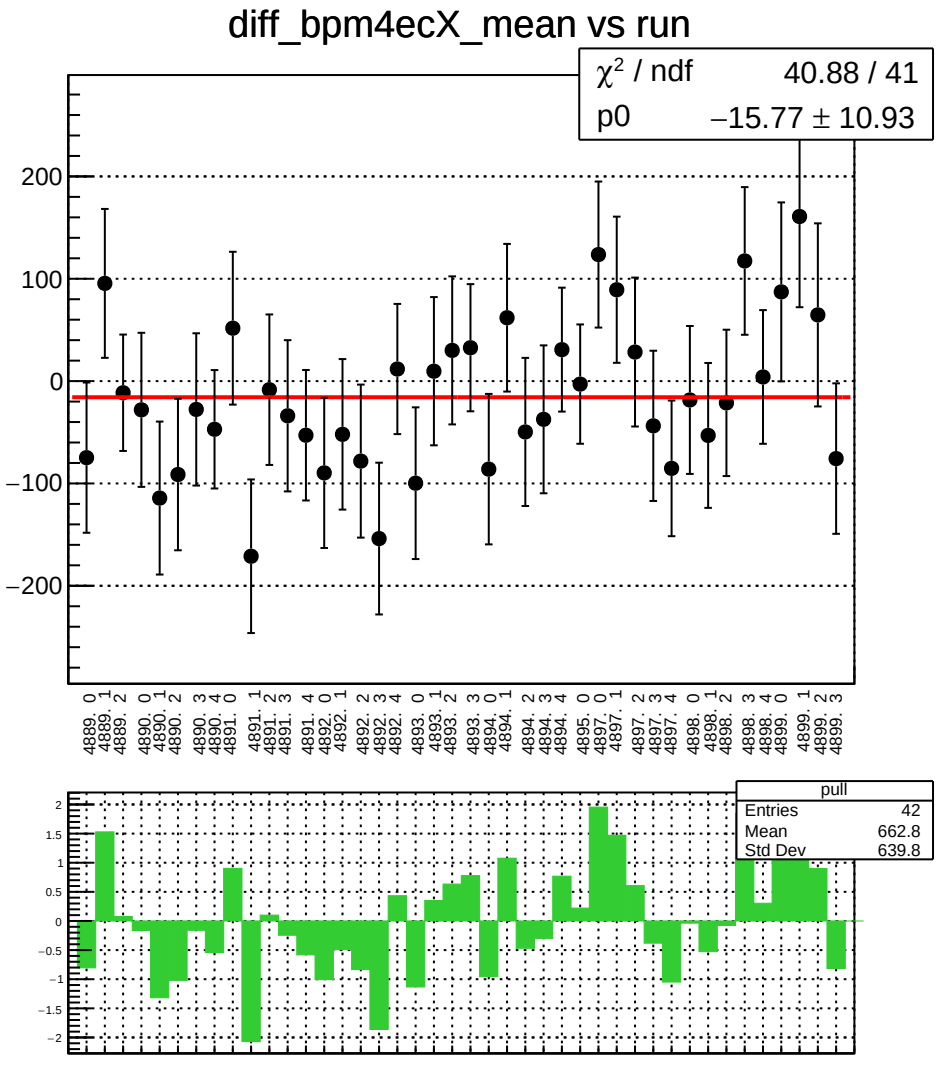

pull1D
Entries 42
Mean −0.03551
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

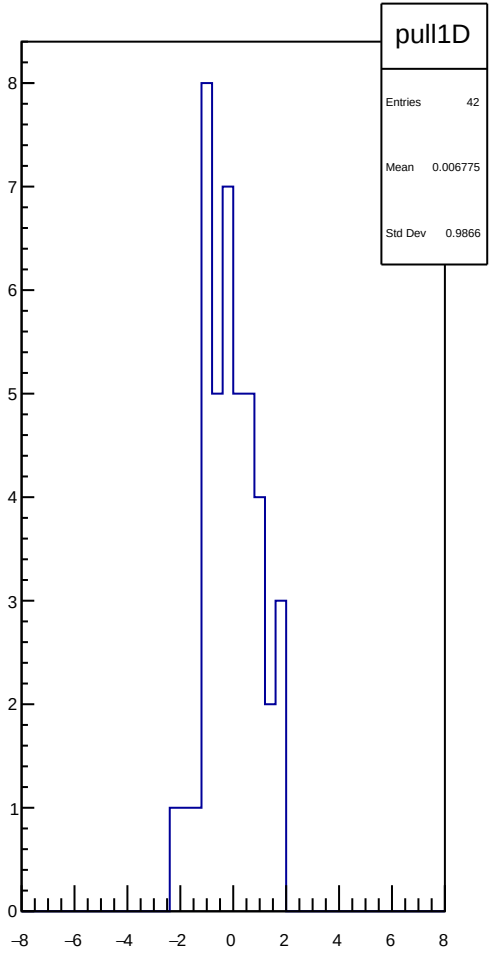

diff_bpm4acX_rms vs run
χ² / ndf 1407 / 41
p0 1722 ± 1.884
2200
2100
2000
1900
1800
1700
1600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

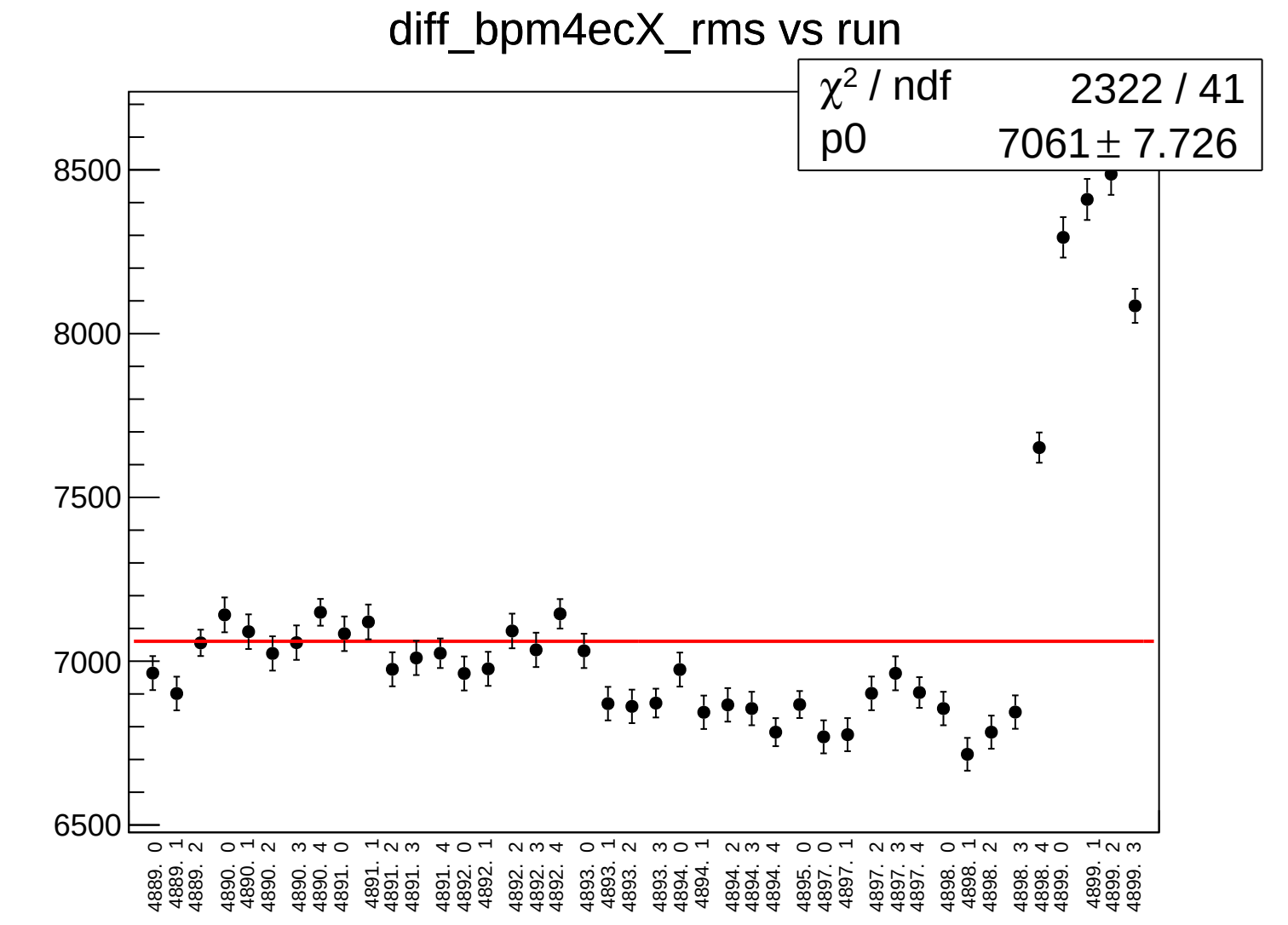

diff_bpm4acY_mean vs run
χ² / ndf 42.32 / 41
p0 3.019 ± 4.362
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −2962
Std Dev 2981
2
1
0
−1
−2

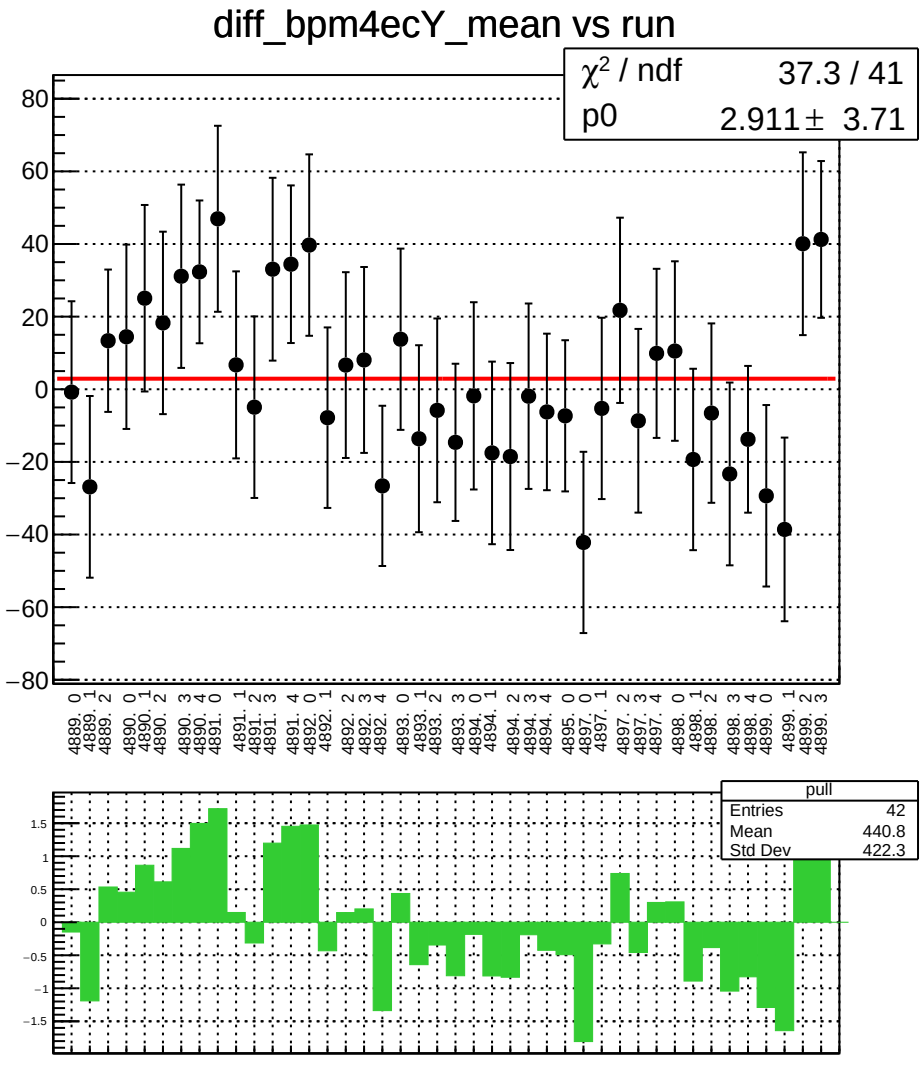

pull1D
Entries 42
Mean 0.001679
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

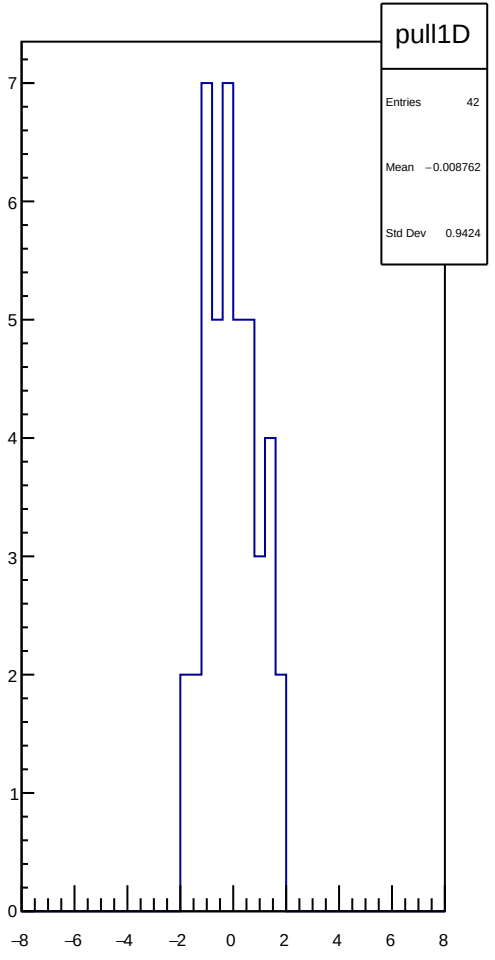

diff_bpm4acY_rms vs run
χ² / ndf 671.8 / 41
p0 2822 ± 3.084
3100
3000
2900
2800
2700
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

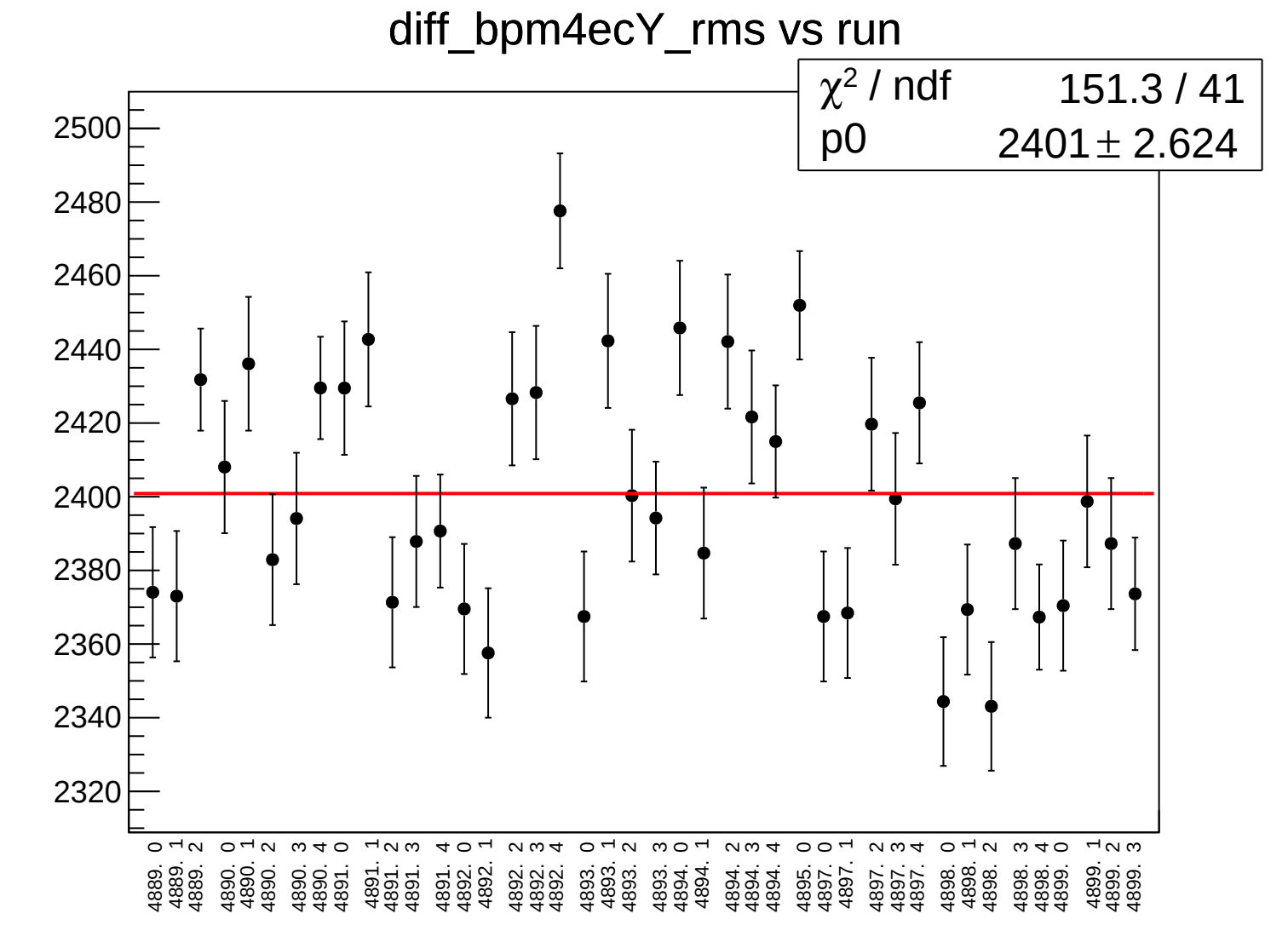

diff_bpm4ecX_mean vs run
χ² / ndf 40.88 / 41
p0 −15.77 ± 10.93
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 662.8
Std Dev 639.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

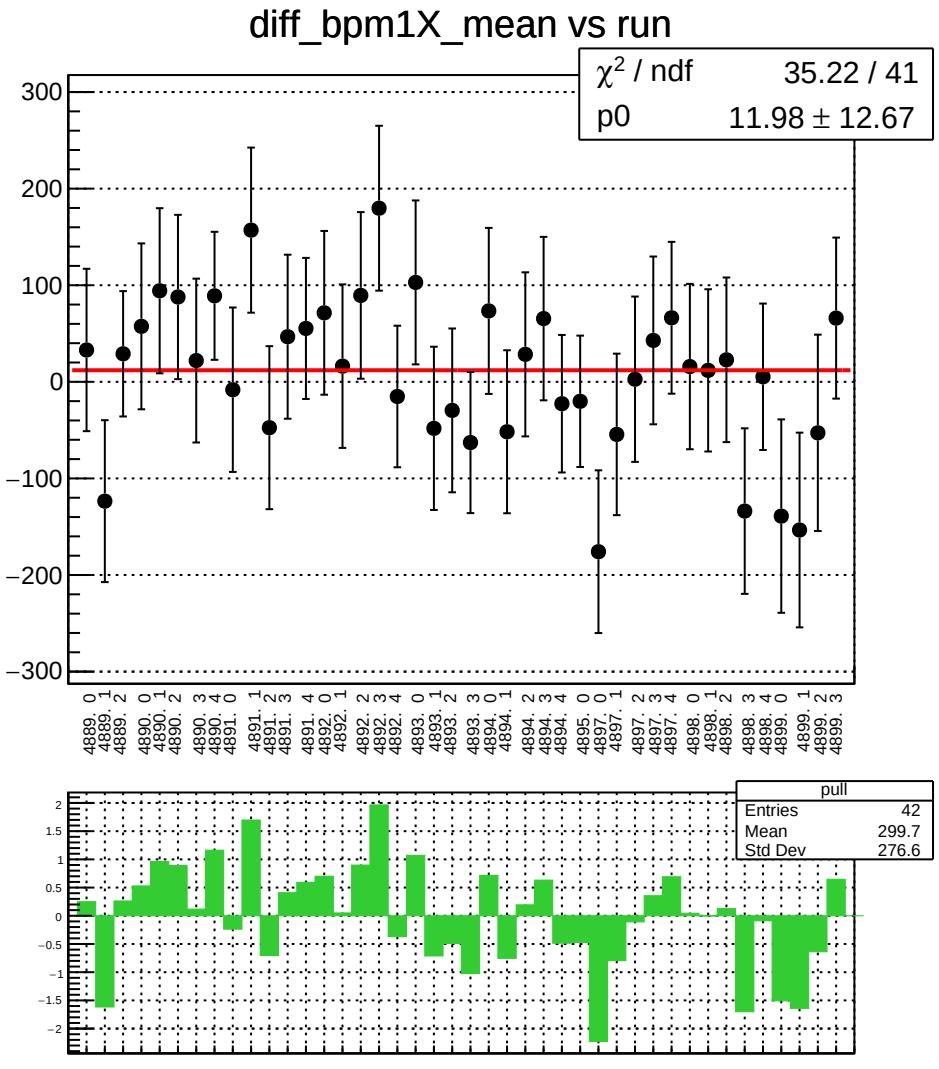

pull1D
Entries 42
Mean 0.006775
Std Dev 0.9866
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

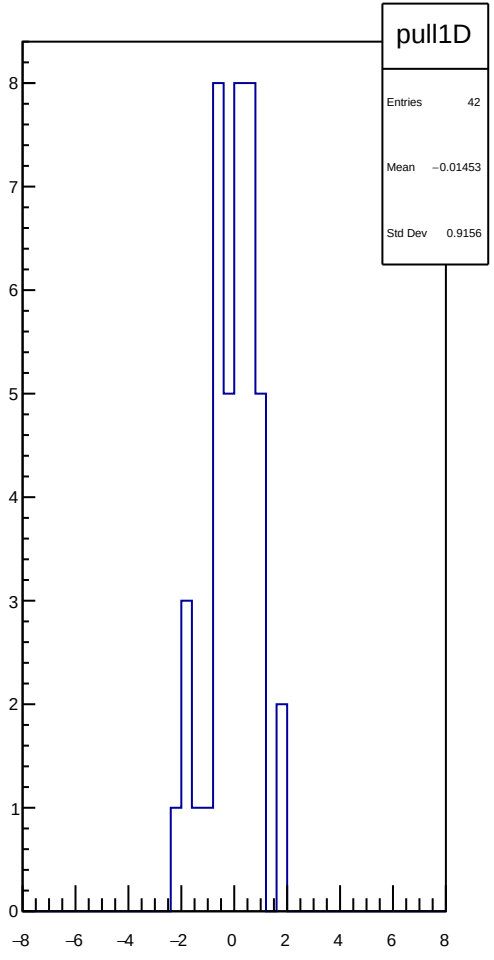

diff_bpm4ecX_rms vs run
χ² / ndf 2322 / 41
p0 7061 ± 7.726
8500
8000
7500
7000
6500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

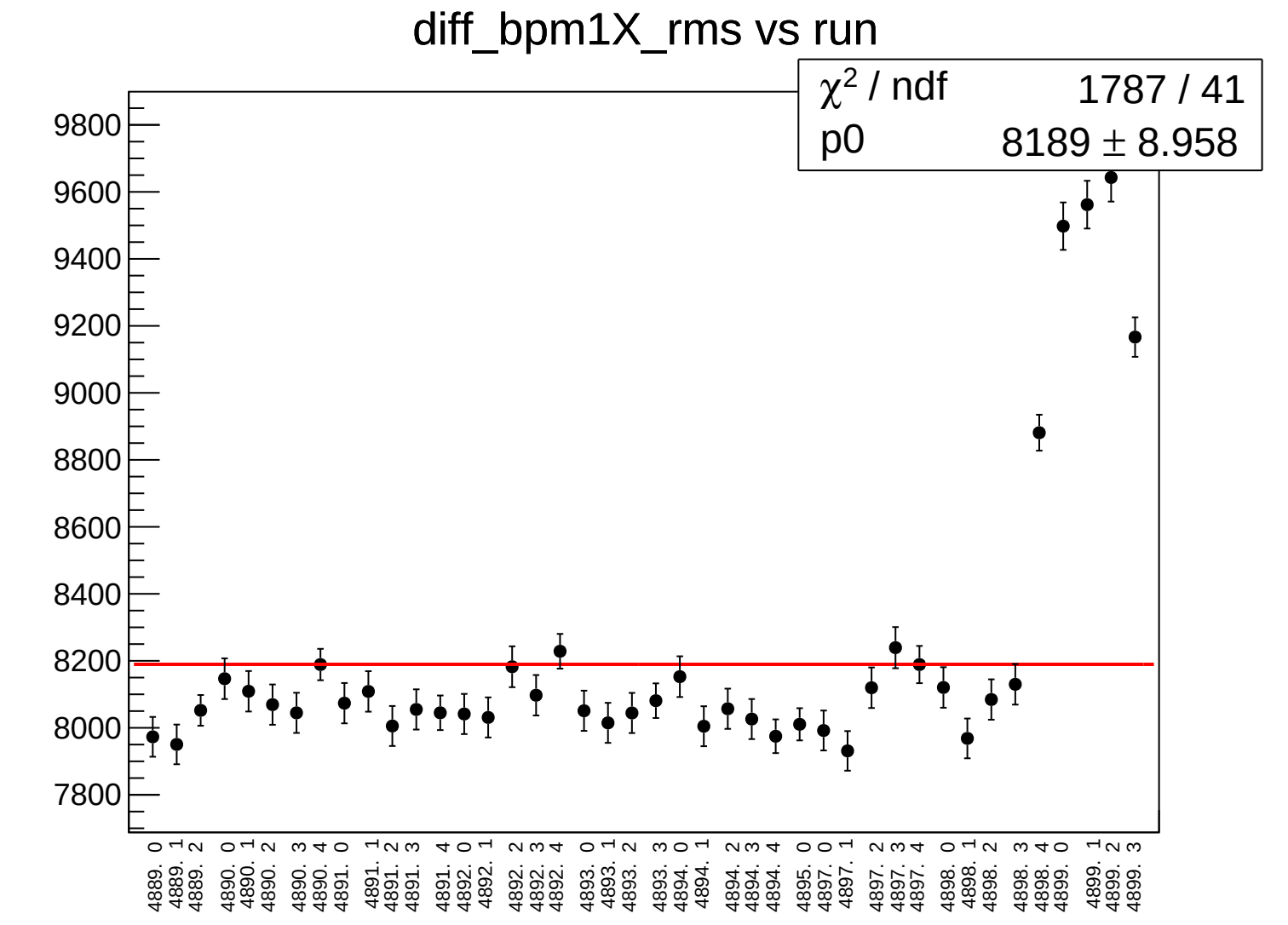

diff_bpm4ecY_mean vs run
χ² / ndf 37.3 / 41
p0 2.911 ± 3.71
pull
Entries 42
Mean 440.8
Std Dev 422.3

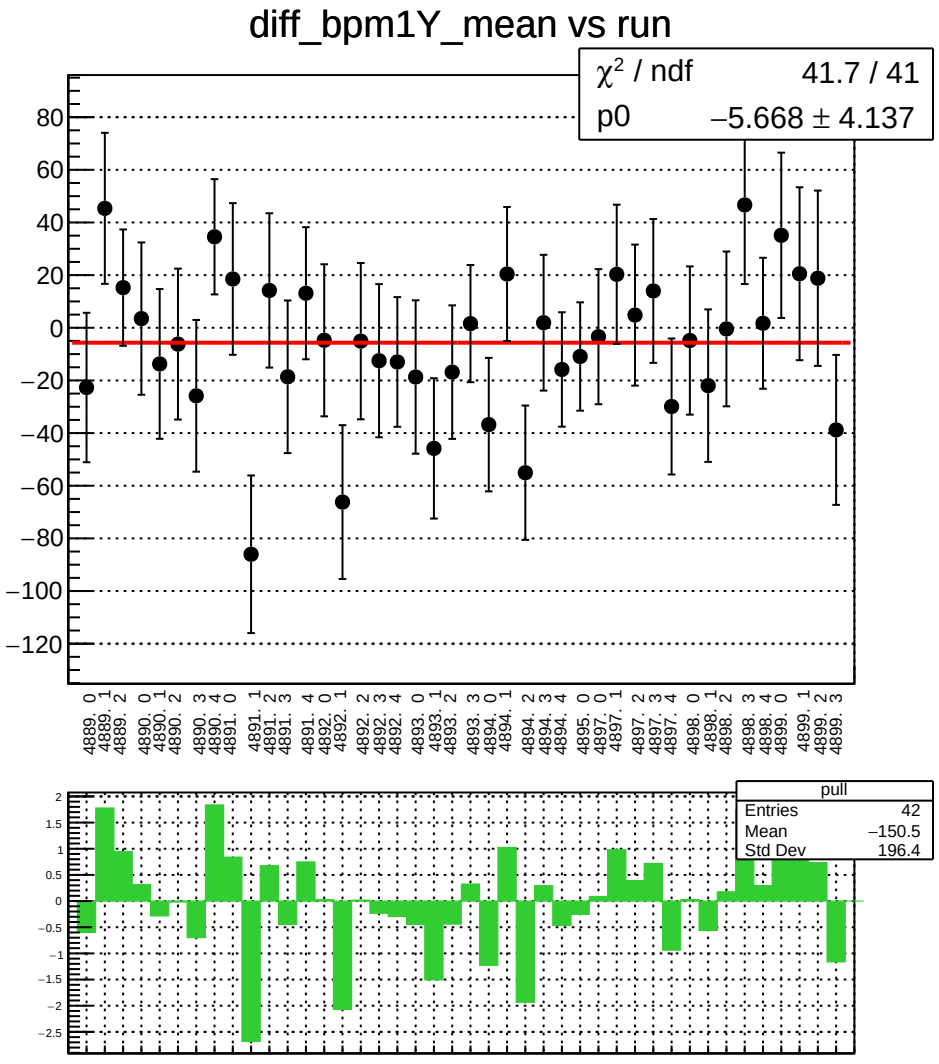

pull1D
Entries 42
Mean −0.008762
Std Dev 0.9424

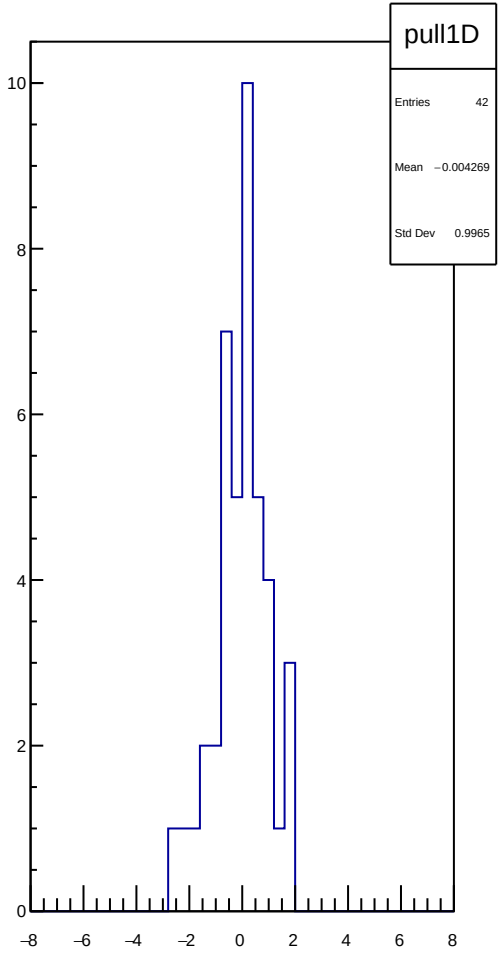

diff_bpm4ecY_rms vs run
χ² / ndf 151.3 / 41
p0 2401 ± 2.624
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

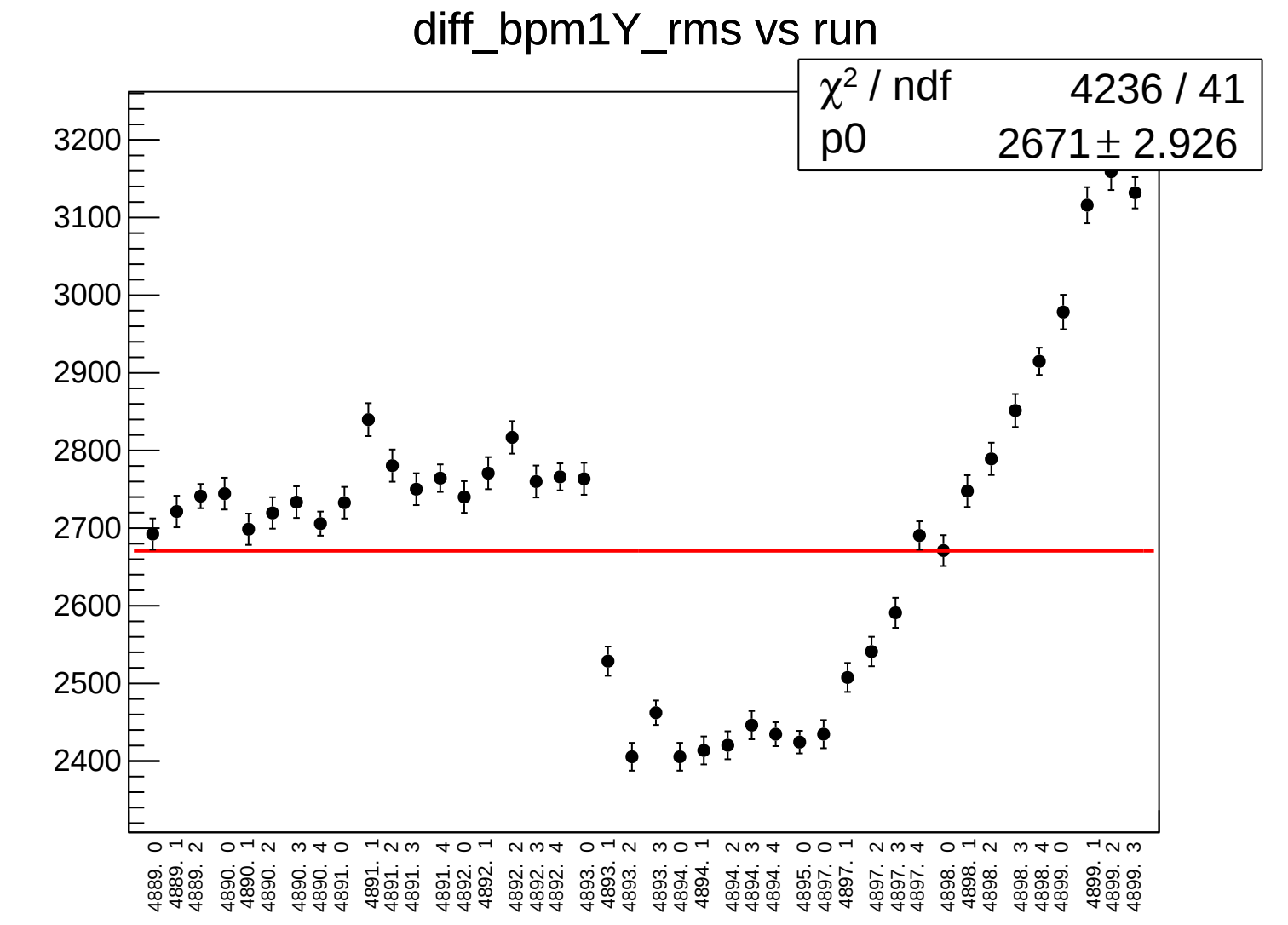

diff_bpm1X_mean vs run
χ² / ndf 35.22 / 41
p0 11.98 ± 12.67
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 299.7
Std Dev 276.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

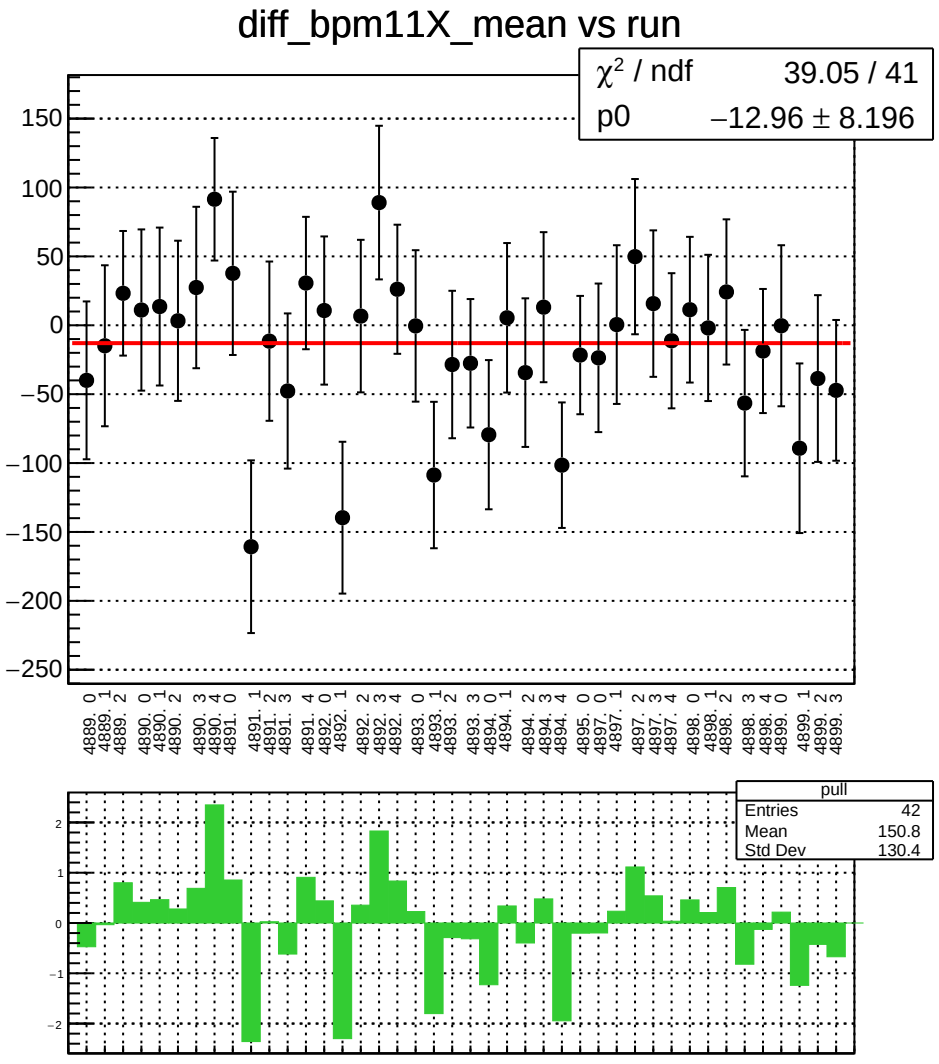

pull1D
Entries 42
Mean −0.01453
Std Dev 0.9156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

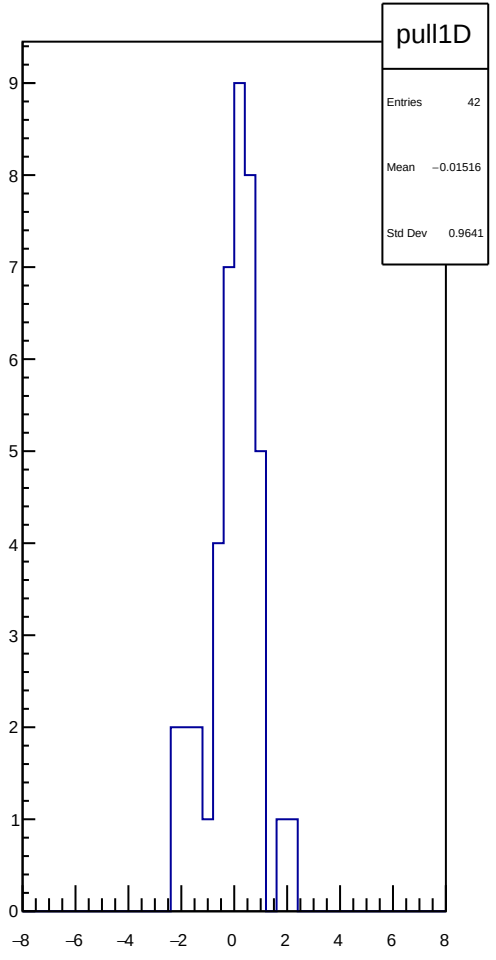

diff_bpm1X_rms vs run
χ² / ndf 1787 / 41
p0 8189 ± 8.958
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

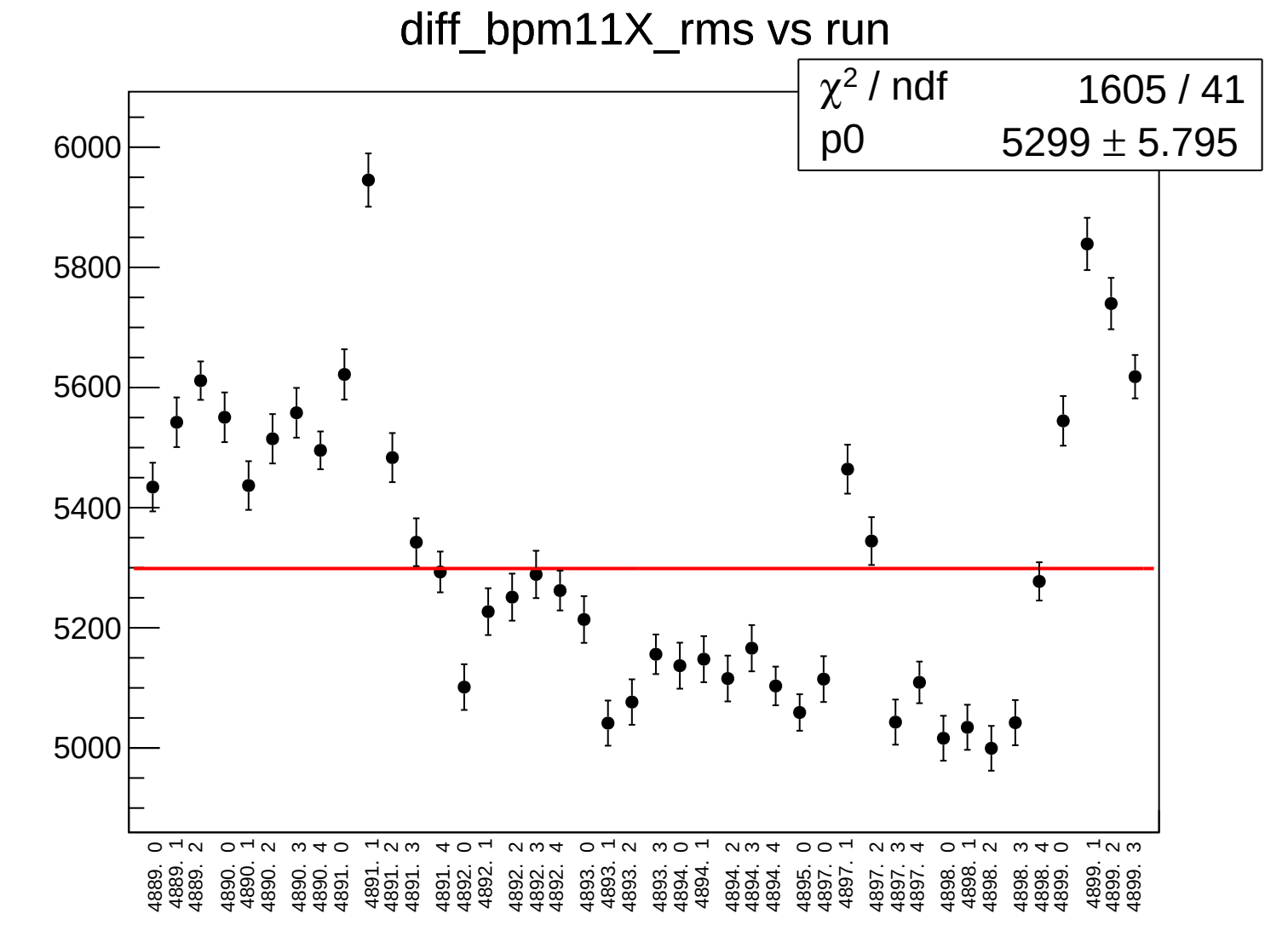

diff_bpm1Y_mean vs run
χ² / ndf 41.7 / 41
p0 −5.668 ± 4.137
pull
Entries 42
Mean −150.5
Std Dev 196.4

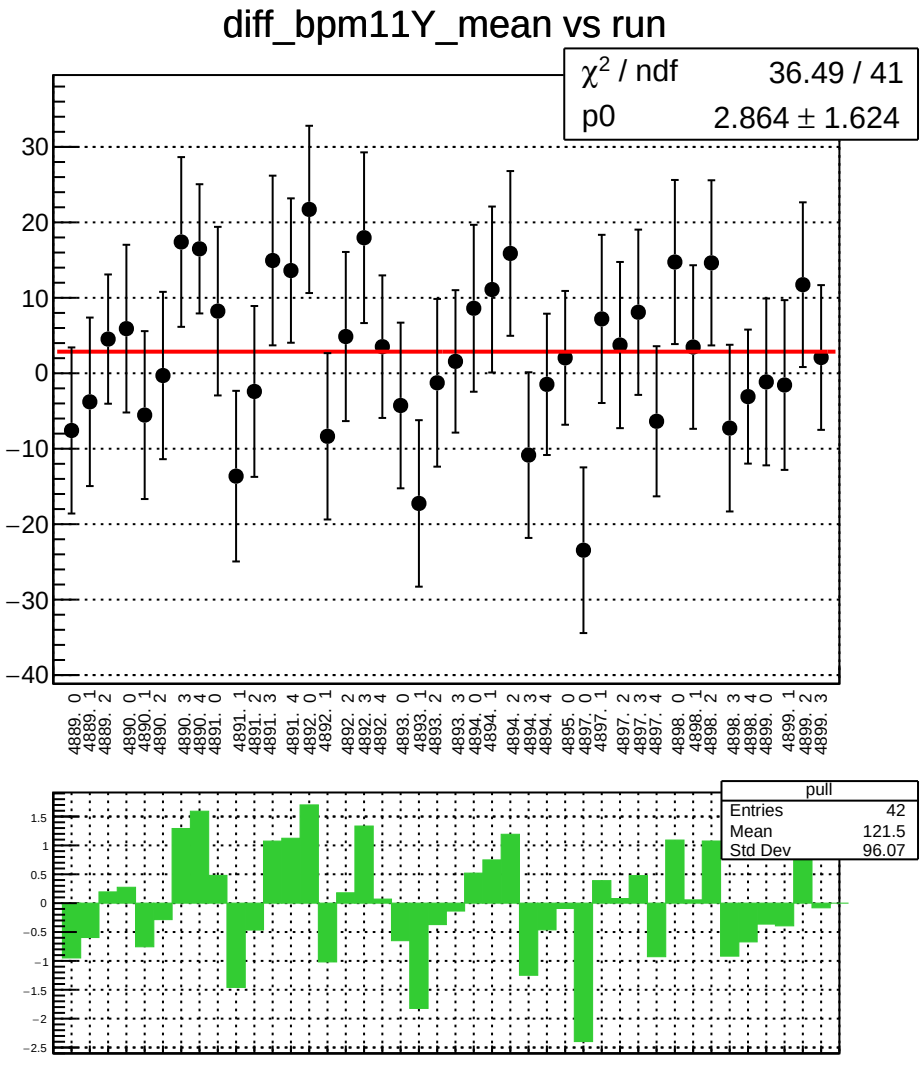

pull1D
Entries 42
Mean −0.004269
Std Dev 0.9965

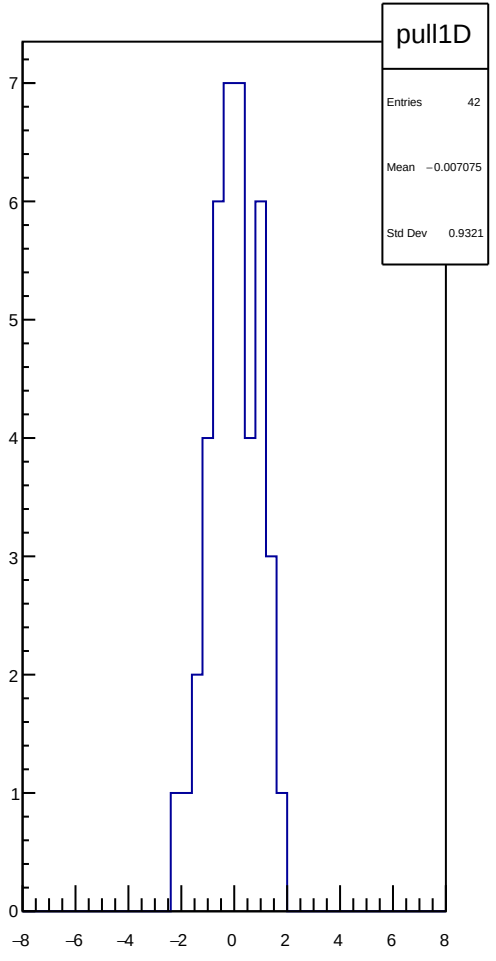

diff_bpm1Y_rms vs run
χ² / ndf 4236 / 41
p0 2671 ± 2.926
3200
3100
3000
2900
2800
2700
2600
2500
2400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

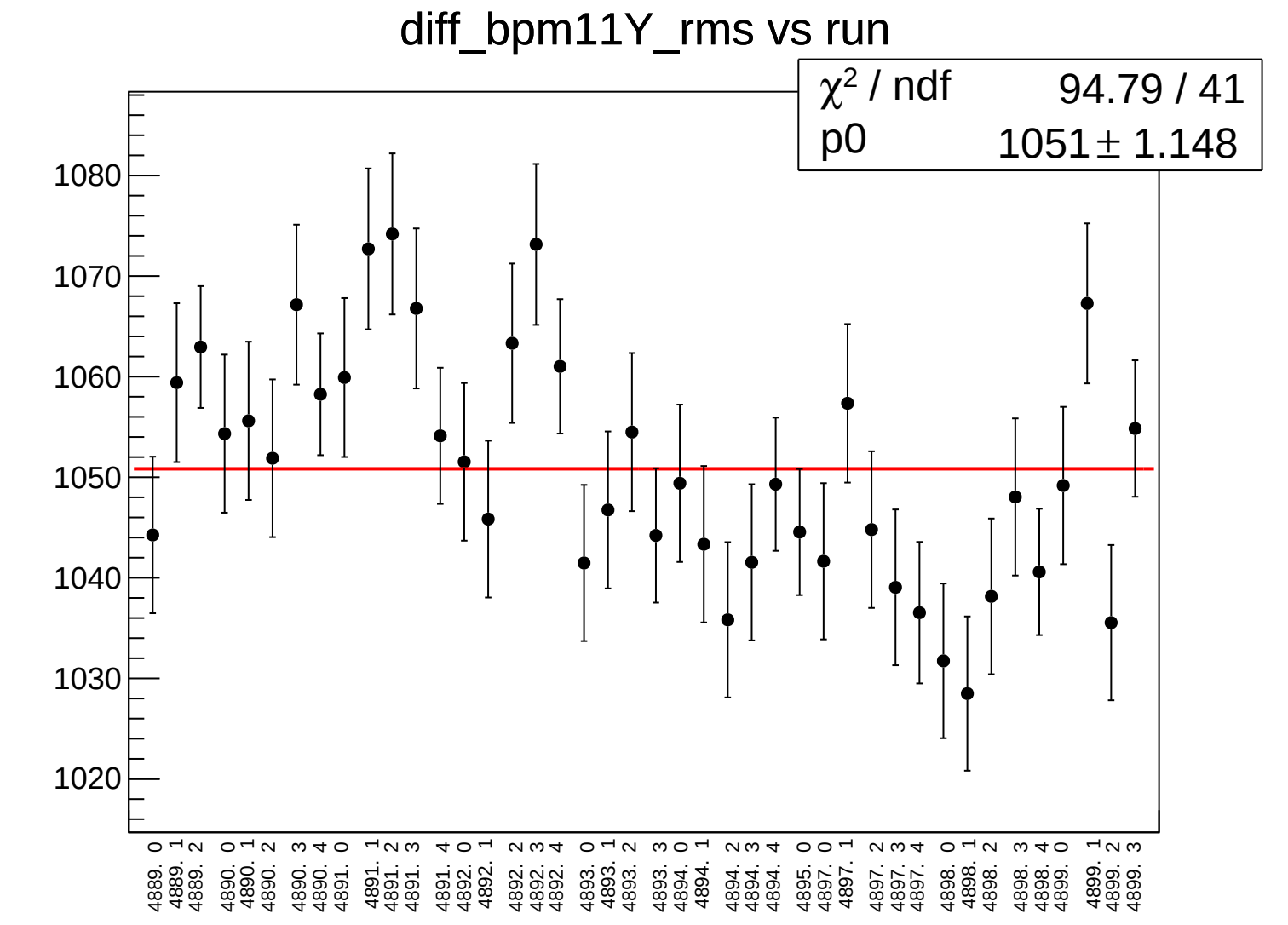

diff_bpm11X_mean vs run
χ² / ndf 39.05 / 41
p0 −12.96 ± 8.196
150
100
50
0
−50
−100
−150
−200
−250
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 150.8
Std Dev 130.4
2
1
0
−1
−2

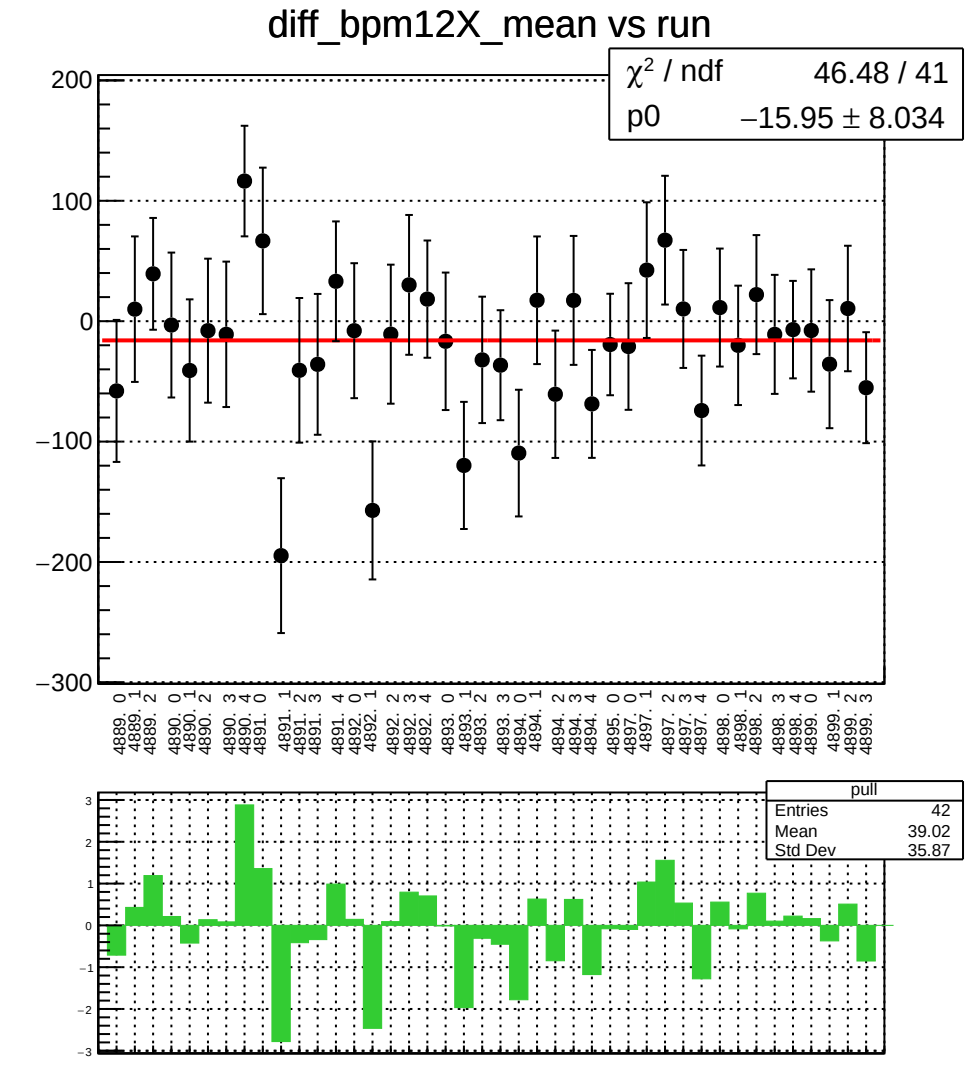

pull1D
Entries 42
Mean −0.01516
Std Dev 0.9641
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

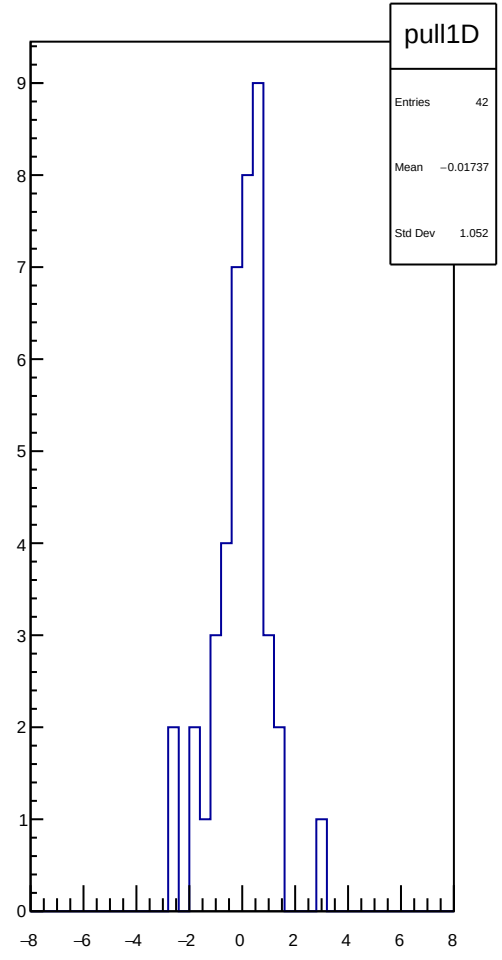

diff_bpm11X_rms vs run
χ² / ndf 1605 / 41
p0 5299 ± 5.795
6000
5800
5600
5400
5200
5000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

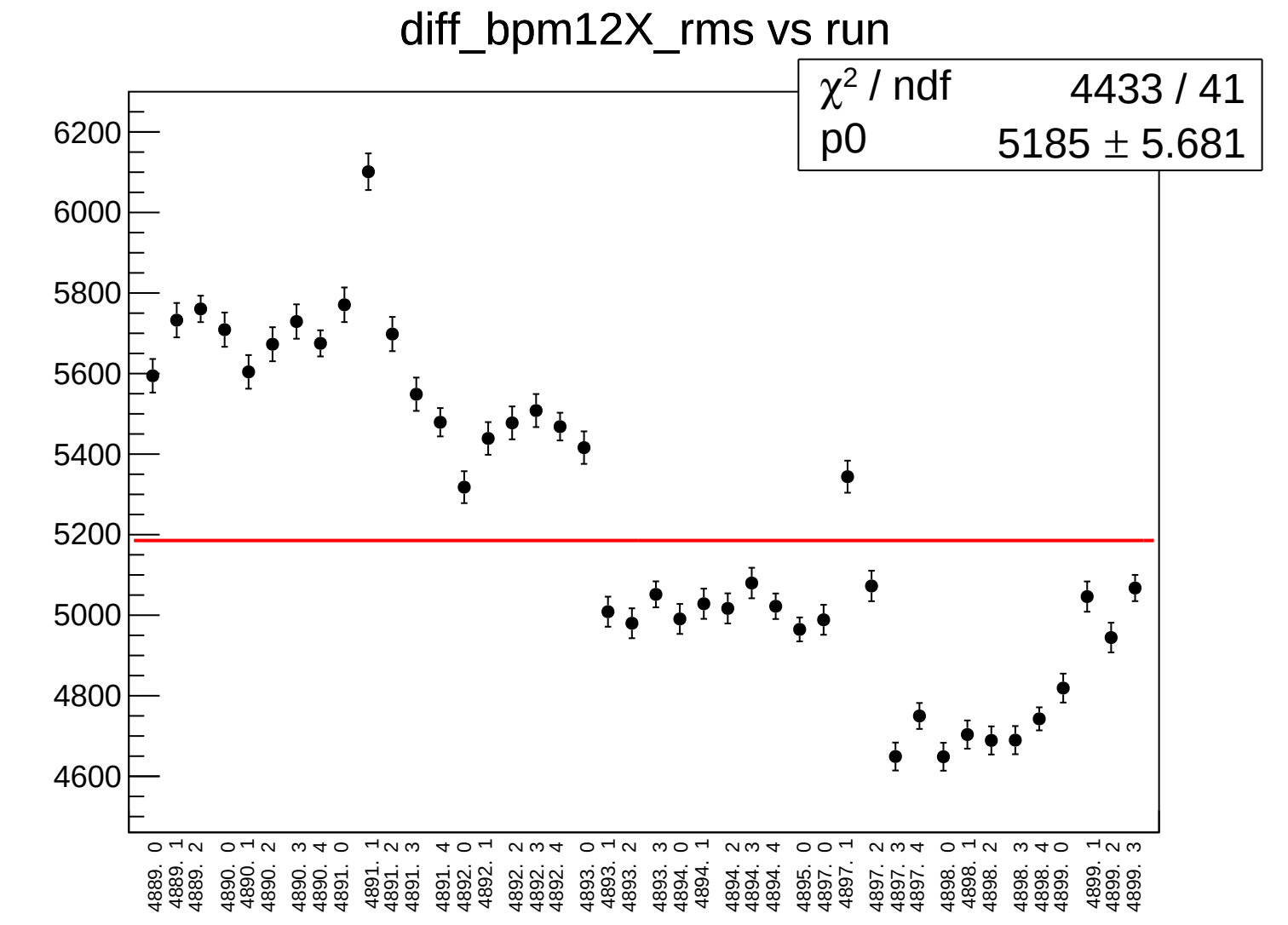

diff_bpm11Y_mean vs run
χ² / ndf 36.49 / 41
p0 2.864 ± 1.624
pull
Entries 42
Mean 121.5
Std Dev 96.07

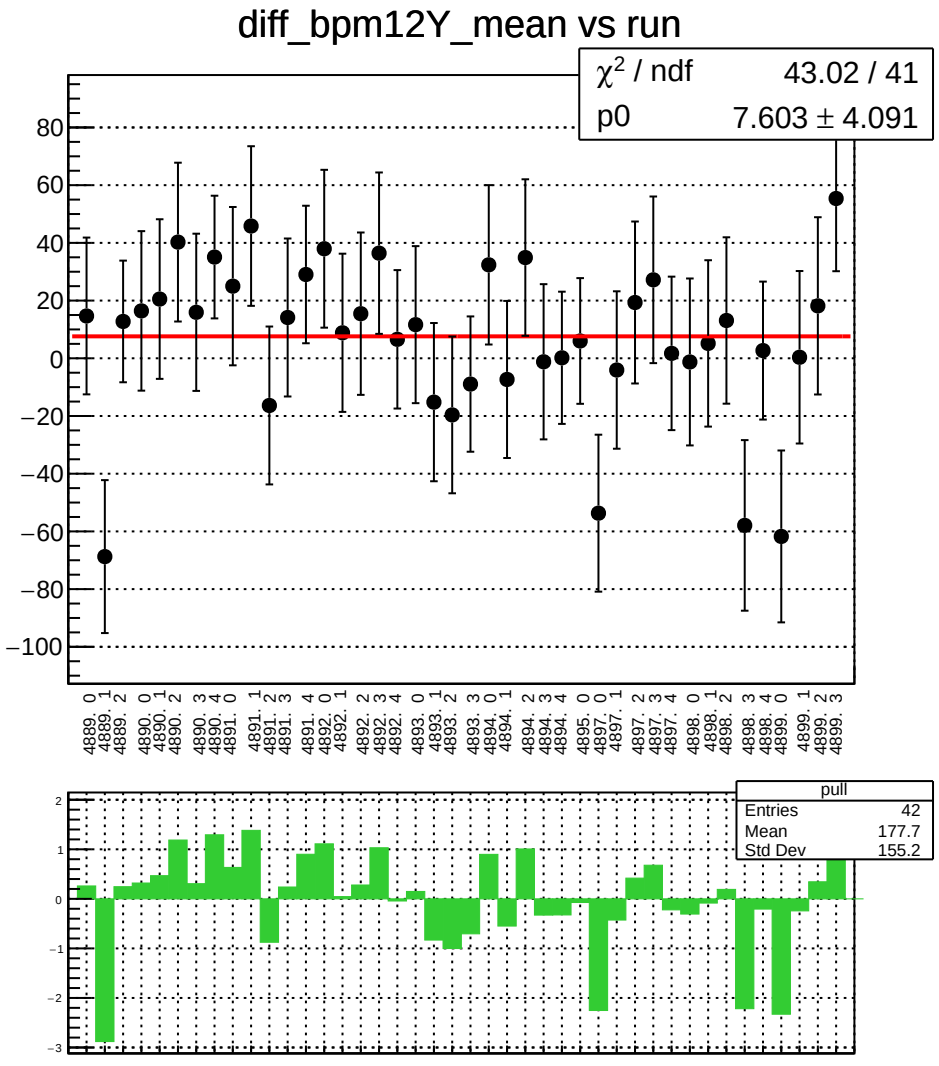

pull1D
Entries 42
Mean −0.007075
Std Dev 0.9321

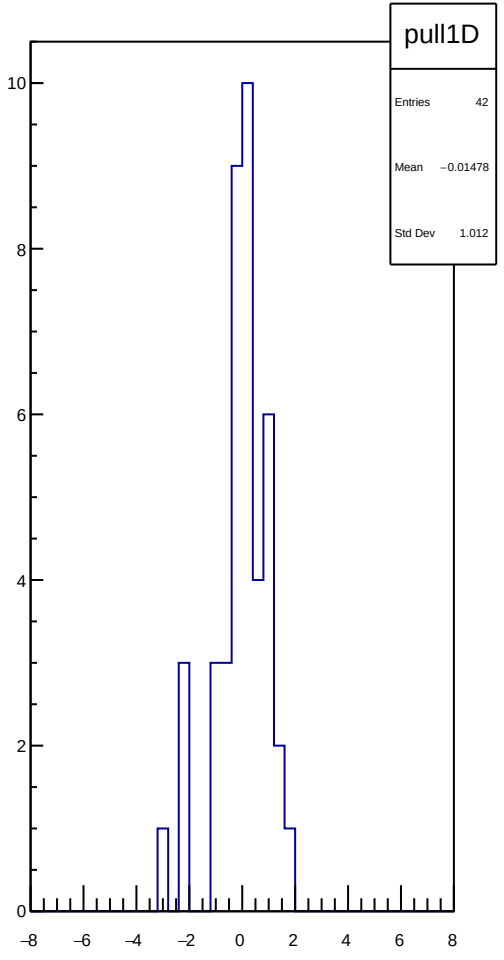

diff_bpm11Y_rms vs run
χ² / ndf 94.79 / 41
p0 1051 ± 1.148
1080
1070
1060
1050
1040
1030
1020
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

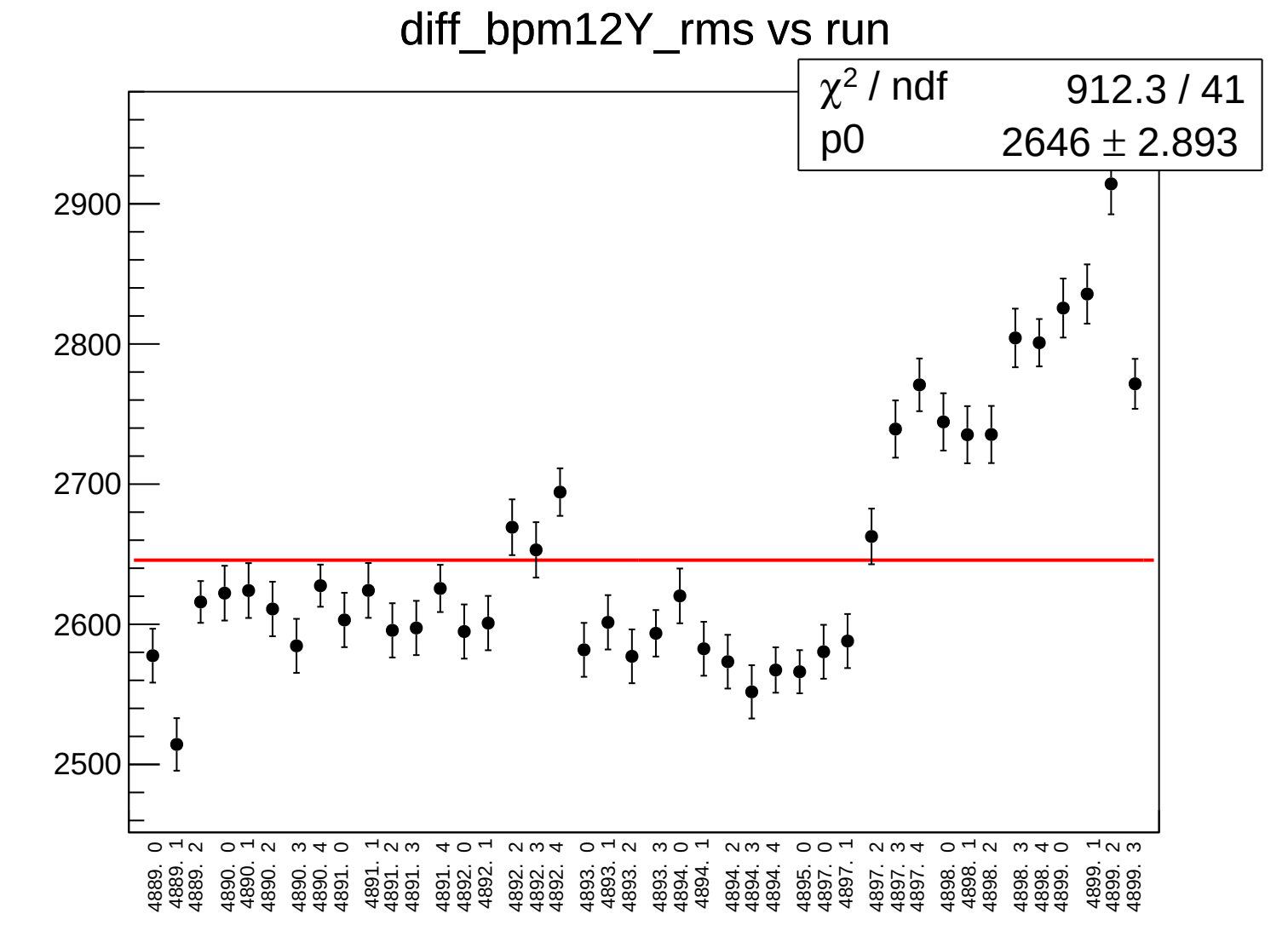

diff_bpm12X_mean vs run
χ² / ndf 46.48 / 41
p0 −15.95 ± 8.034
pull
Entries 42
Mean 39.02
Std Dev 35.87

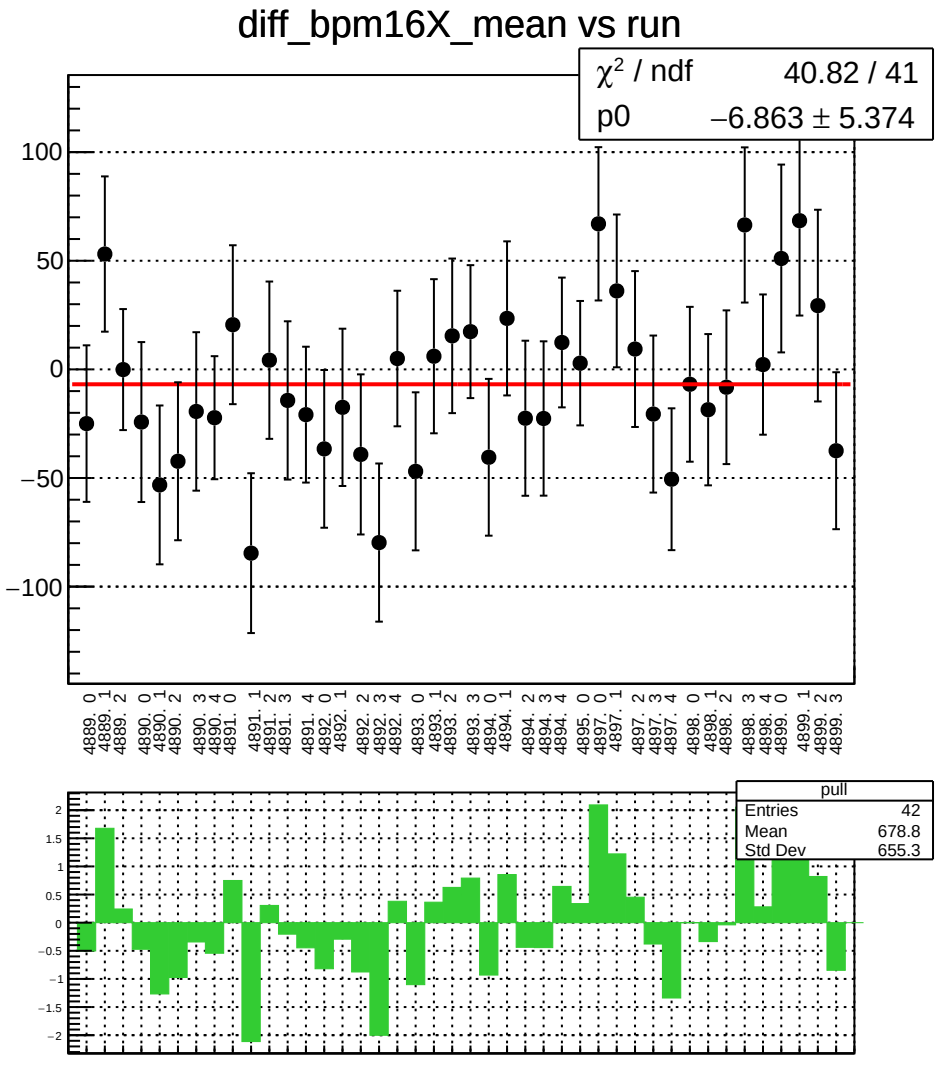

pull1D
Entries 42
Mean −0.01737
Std Dev 1.052

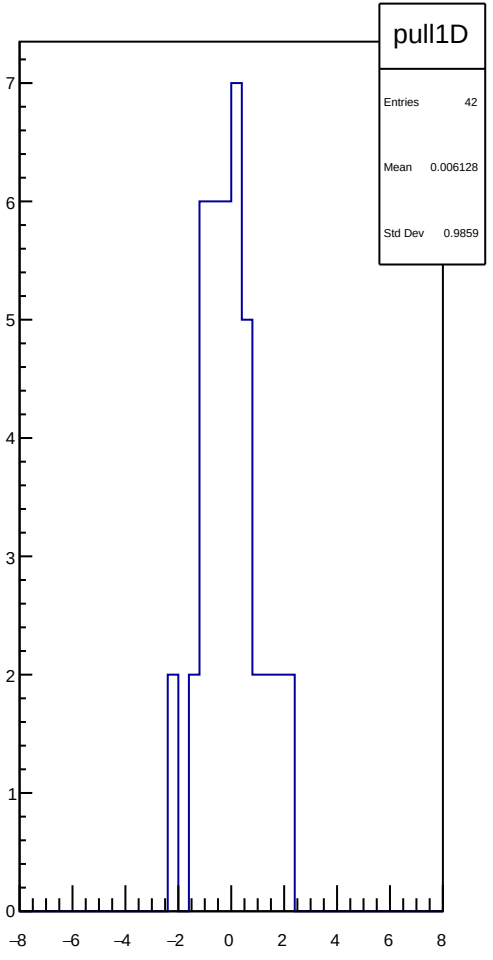

diff_bpm12X_rms vs run
χ² / ndf 4433 / 41
p0 5185 ± 5.681
6200
6000
5800
5600
5400
5200
5000
4800
4600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

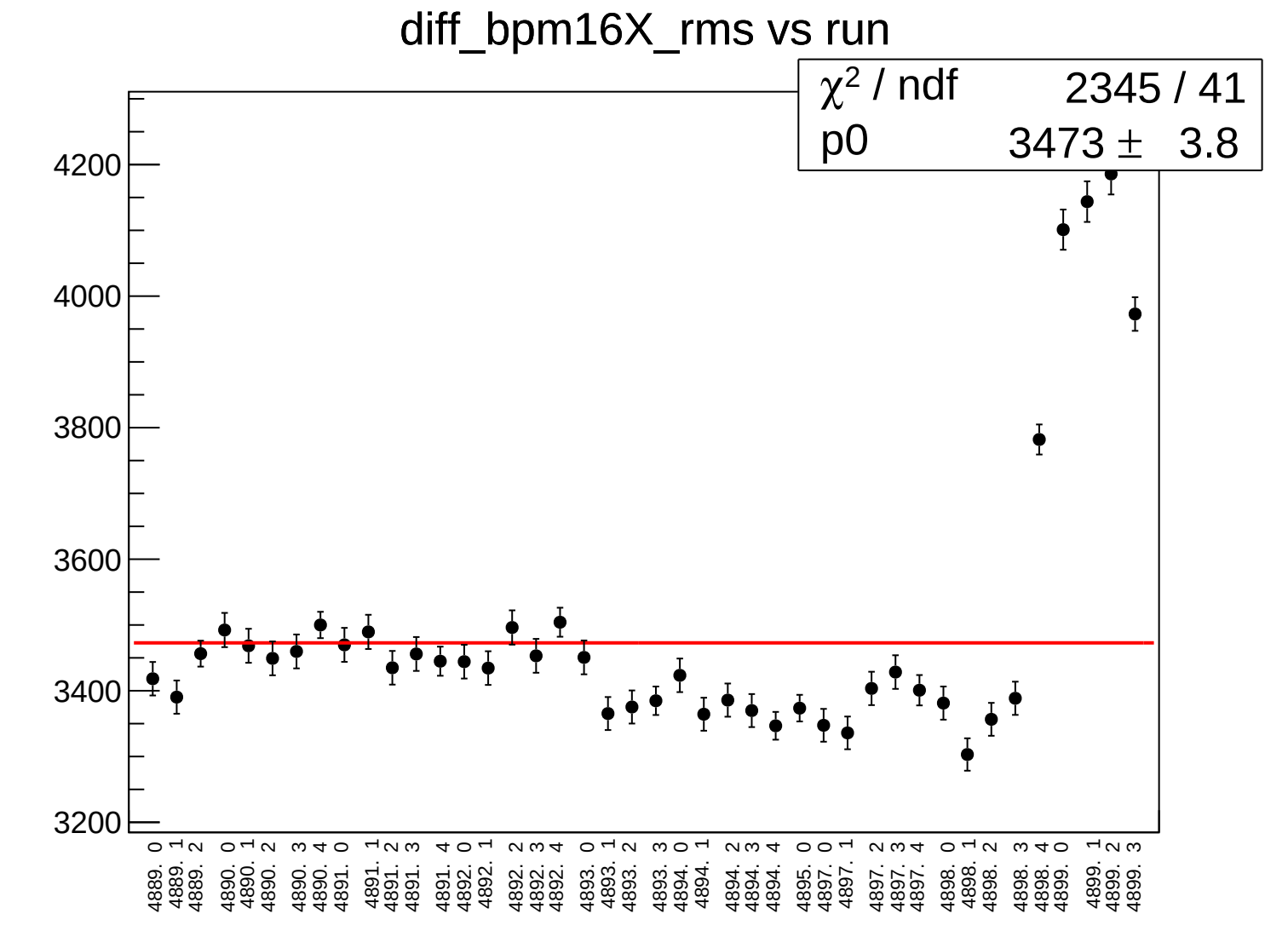

diff_bpm12Y_mean vs run
χ² / ndf 43.02 / 41
p0 7.603 ± 4.091
pull
Entries 42
Mean 177.7
Std Dev 155.2

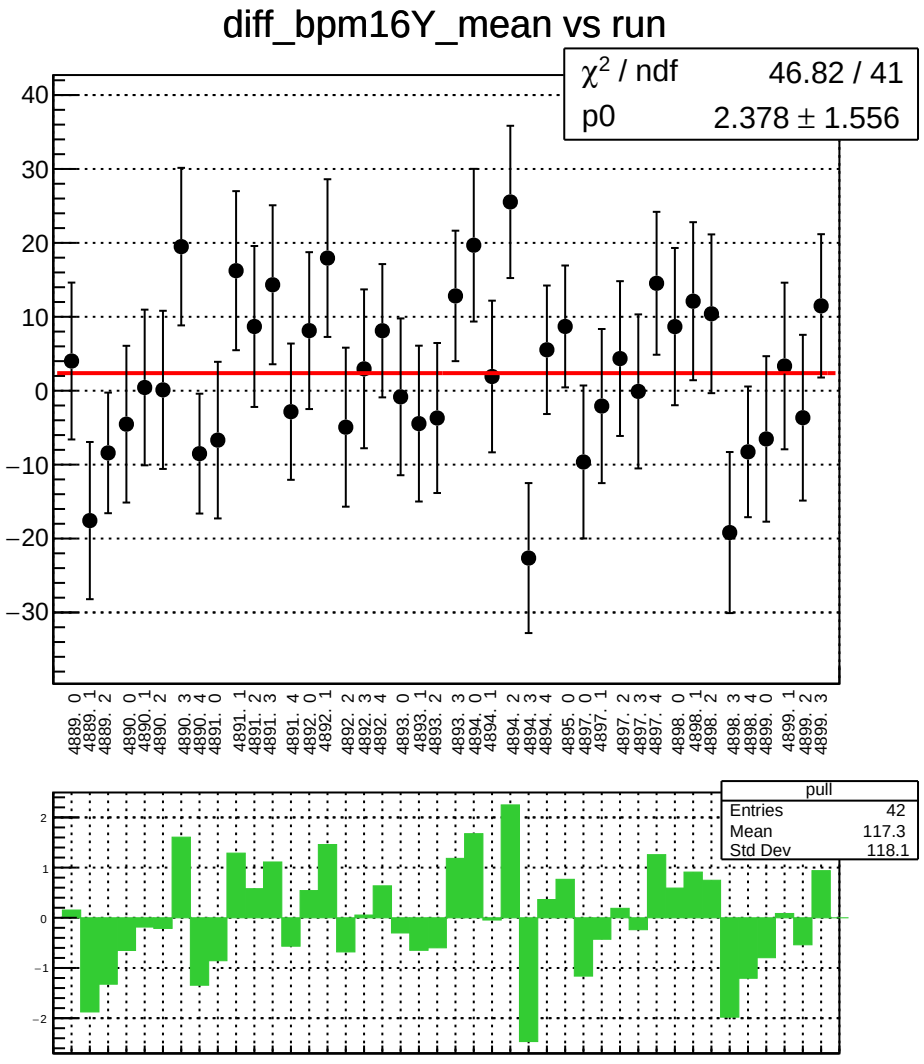

pull1D
Entries 42
Mean −0.01478
Std Dev 1.012

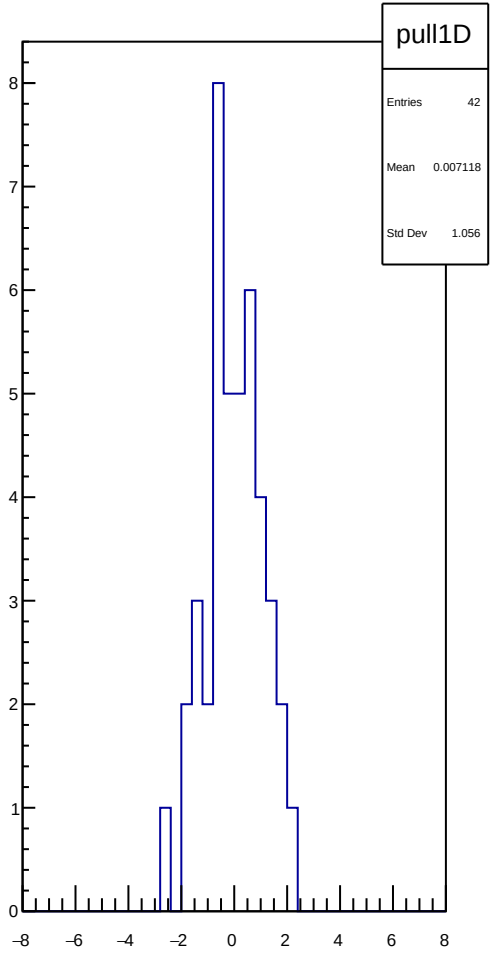

diff_bpm12Y_rms vs run
χ² / ndf 912.3 / 41
p0 2646 ± 2.893
2900
2800
2700
2600
2500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

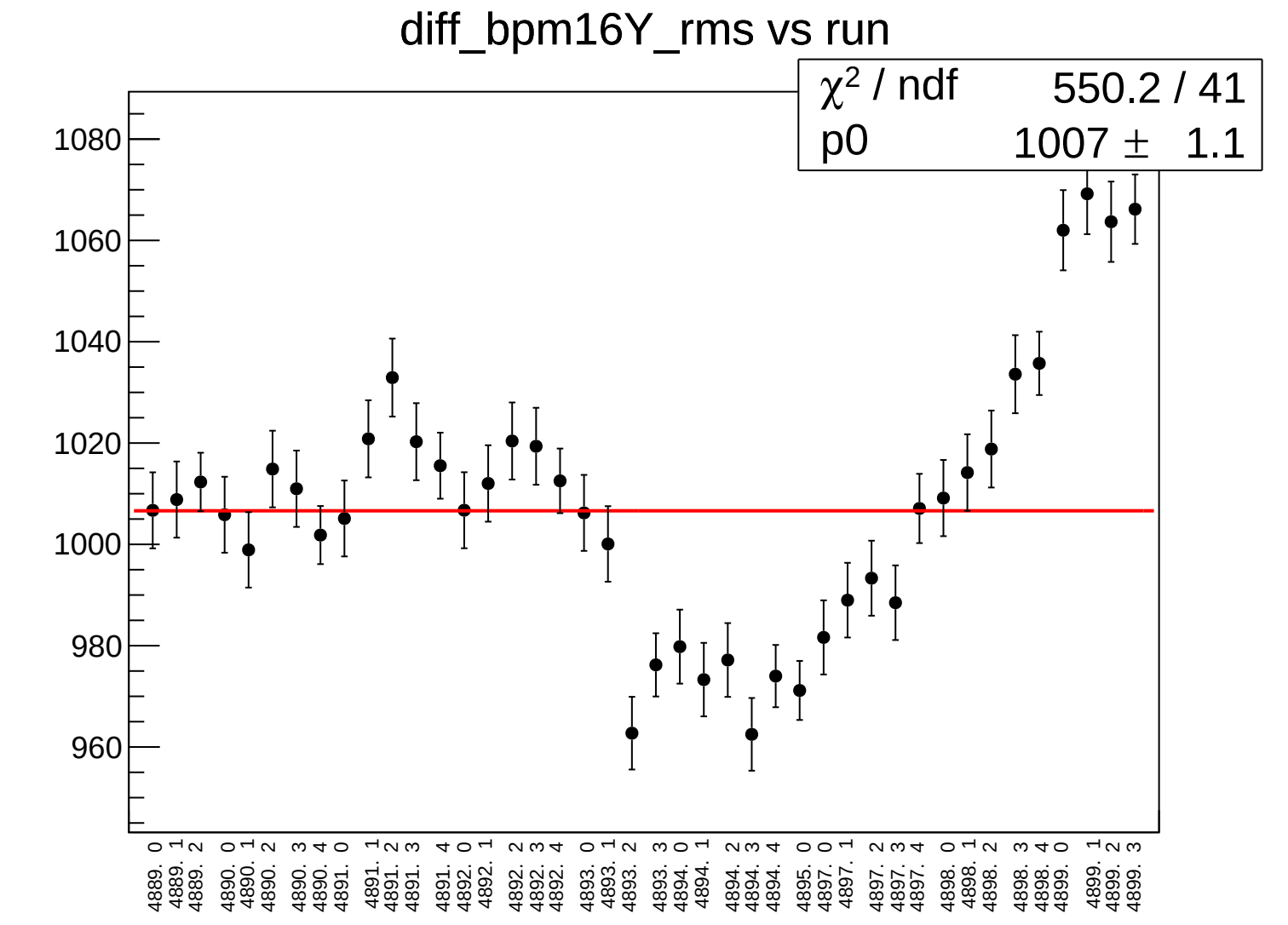

diff_bpm16X_mean vs run
χ² / ndf 40.82 / 41
p0 −6.863 ± 5.374
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 678.8
Std Dev 655.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

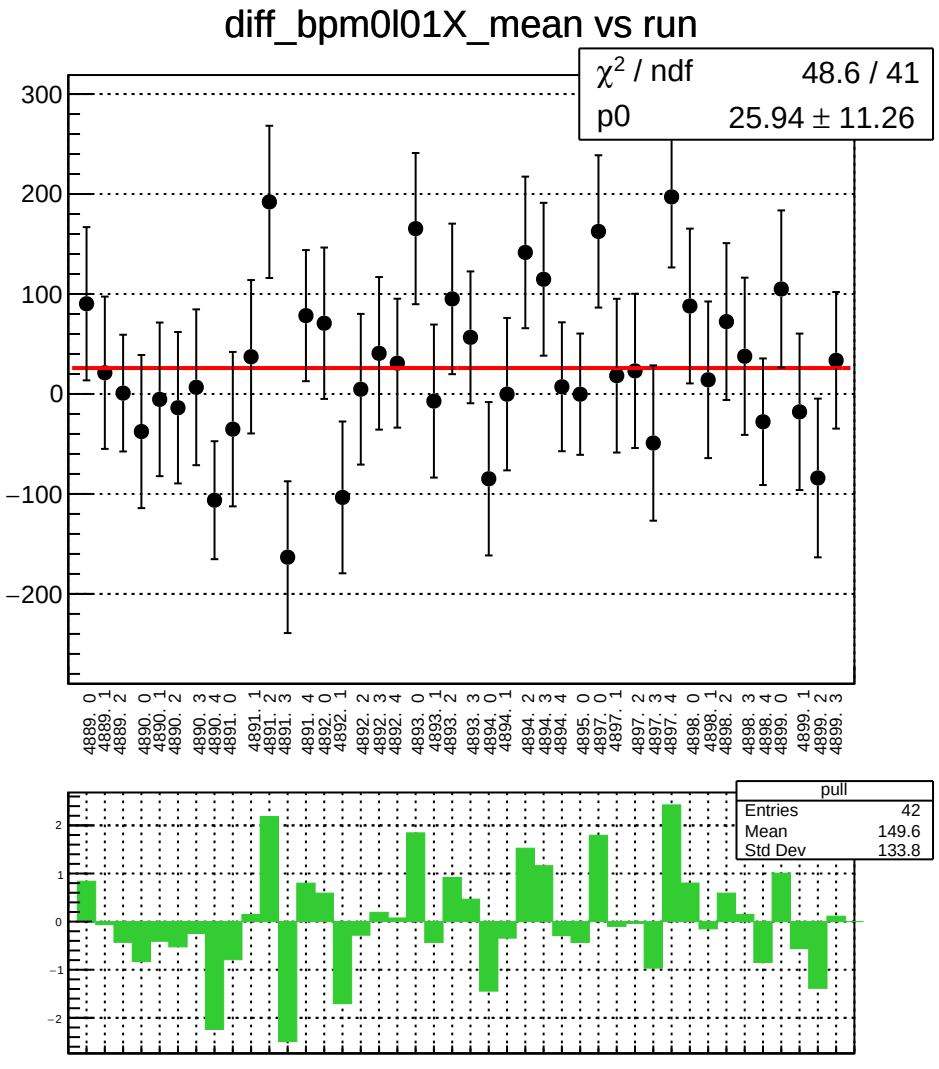

pull1D
Entries 42
Mean 0.006128
Std Dev 0.9859
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

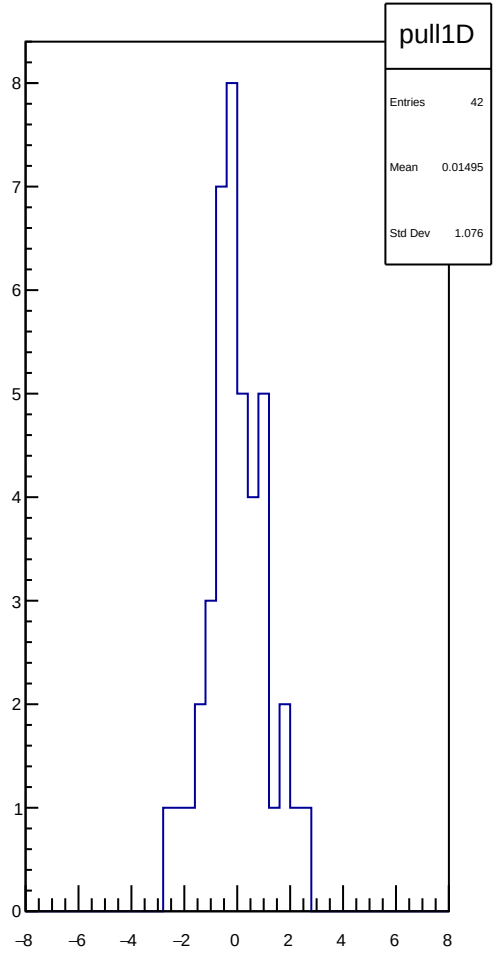

diff_bpm16X_rms vs run
χ² / ndf 2345 / 41
p0 3473 ± 3.8
4200
4000
3800
3600
3400
3200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

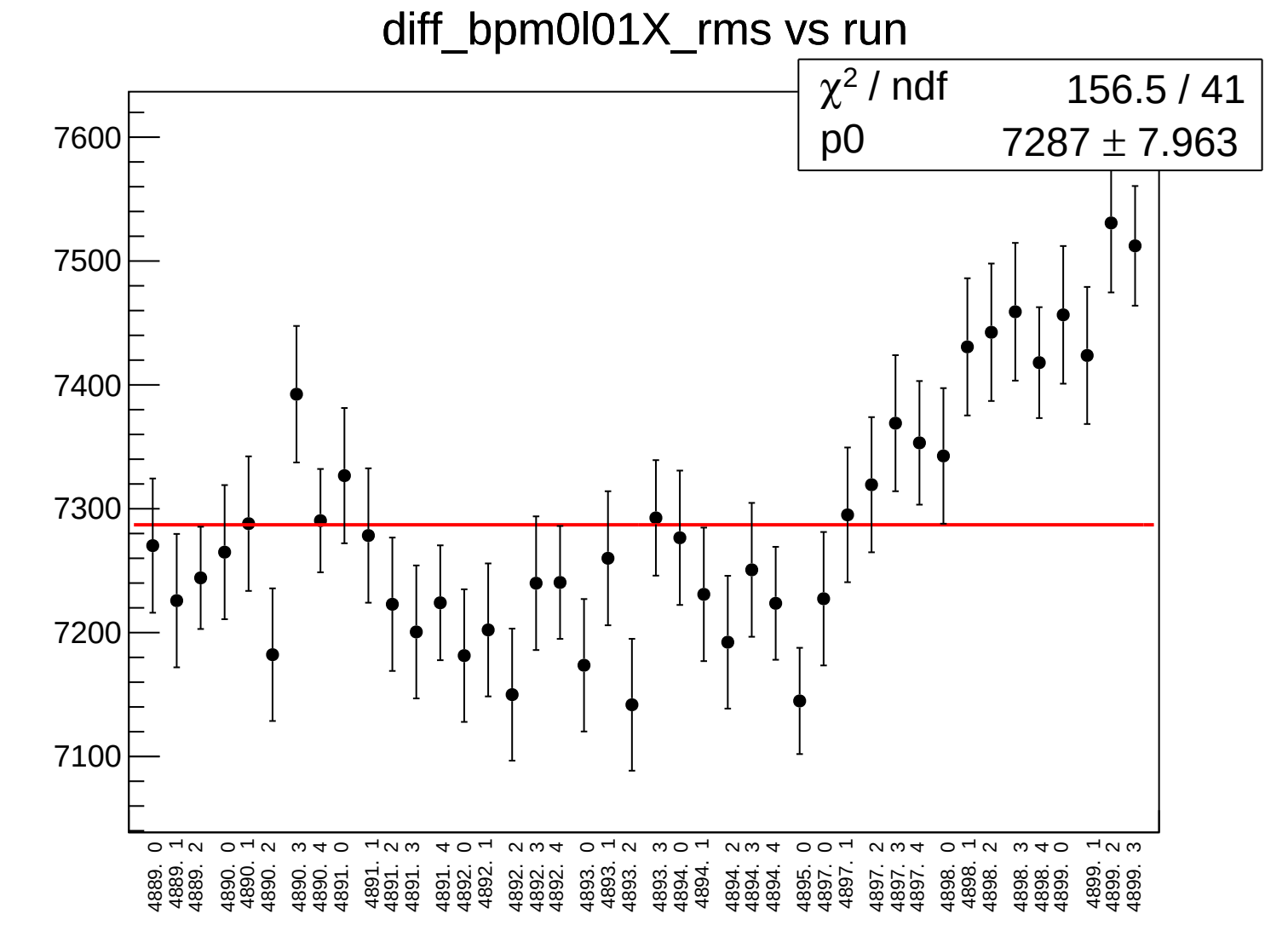

diff_bpm16Y_mean vs run
χ² / ndf 46.82 / 41
p0 2.378 ± 1.556
pull
Entries 42
Mean 117.3
Std Dev 118.1

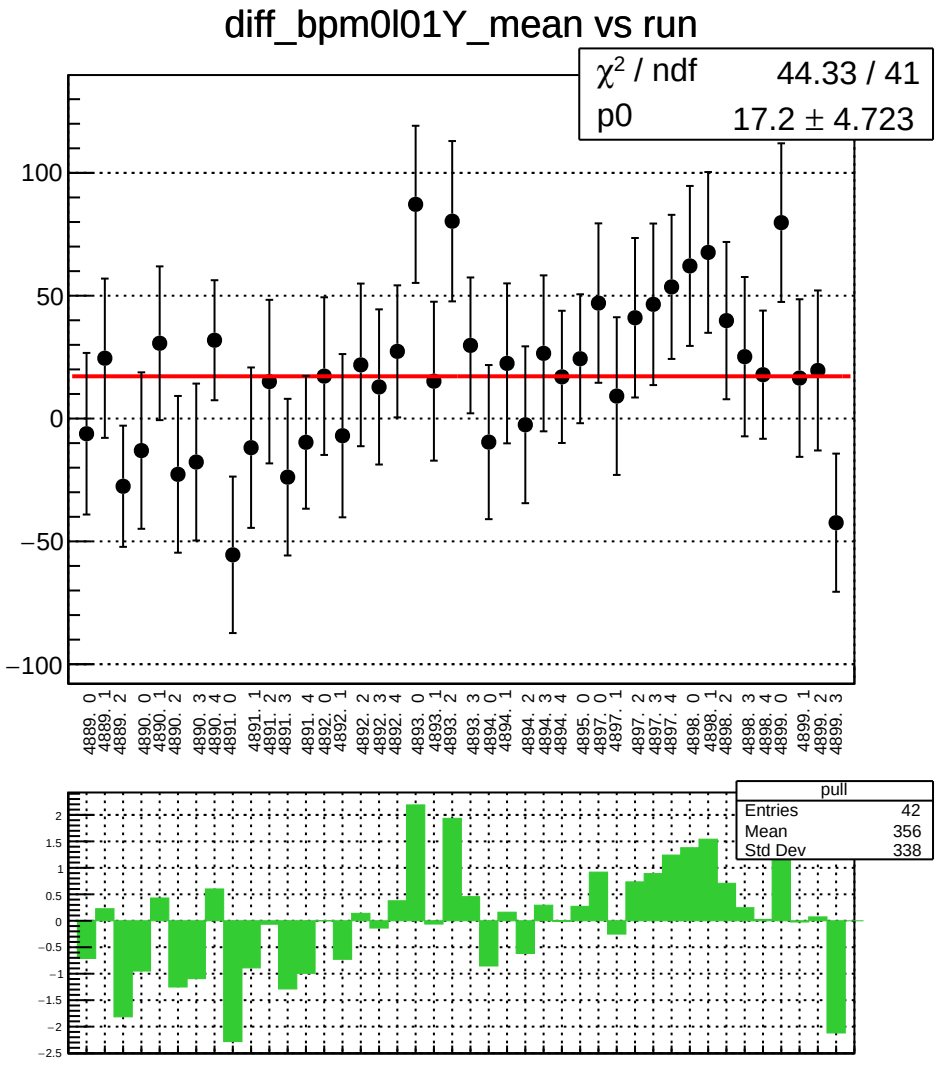

pull1D
Entries 42
Mean 0.007118
Std Dev 1.056

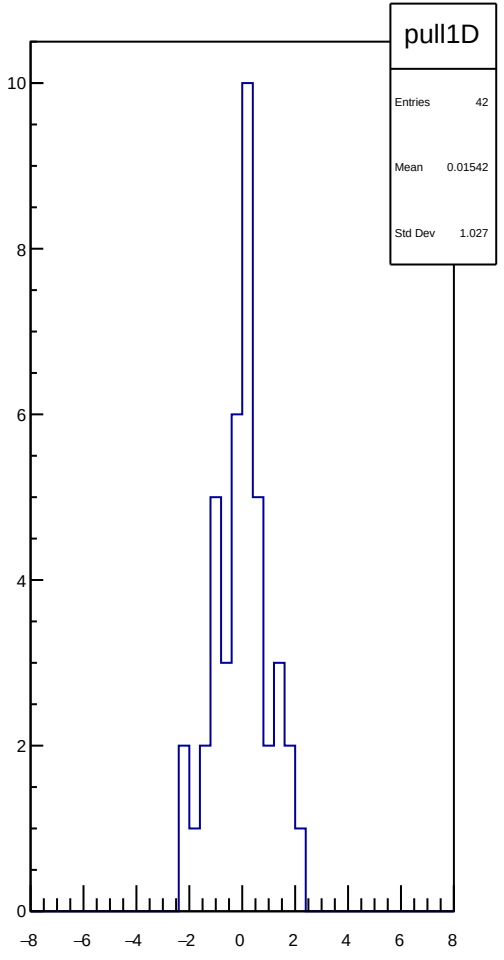

diff_bpm16Y_rms vs run
χ² / ndf 550.2 / 41
p0 1007 ± 1.1
1080
1060
1040
1020
1000
980
960
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

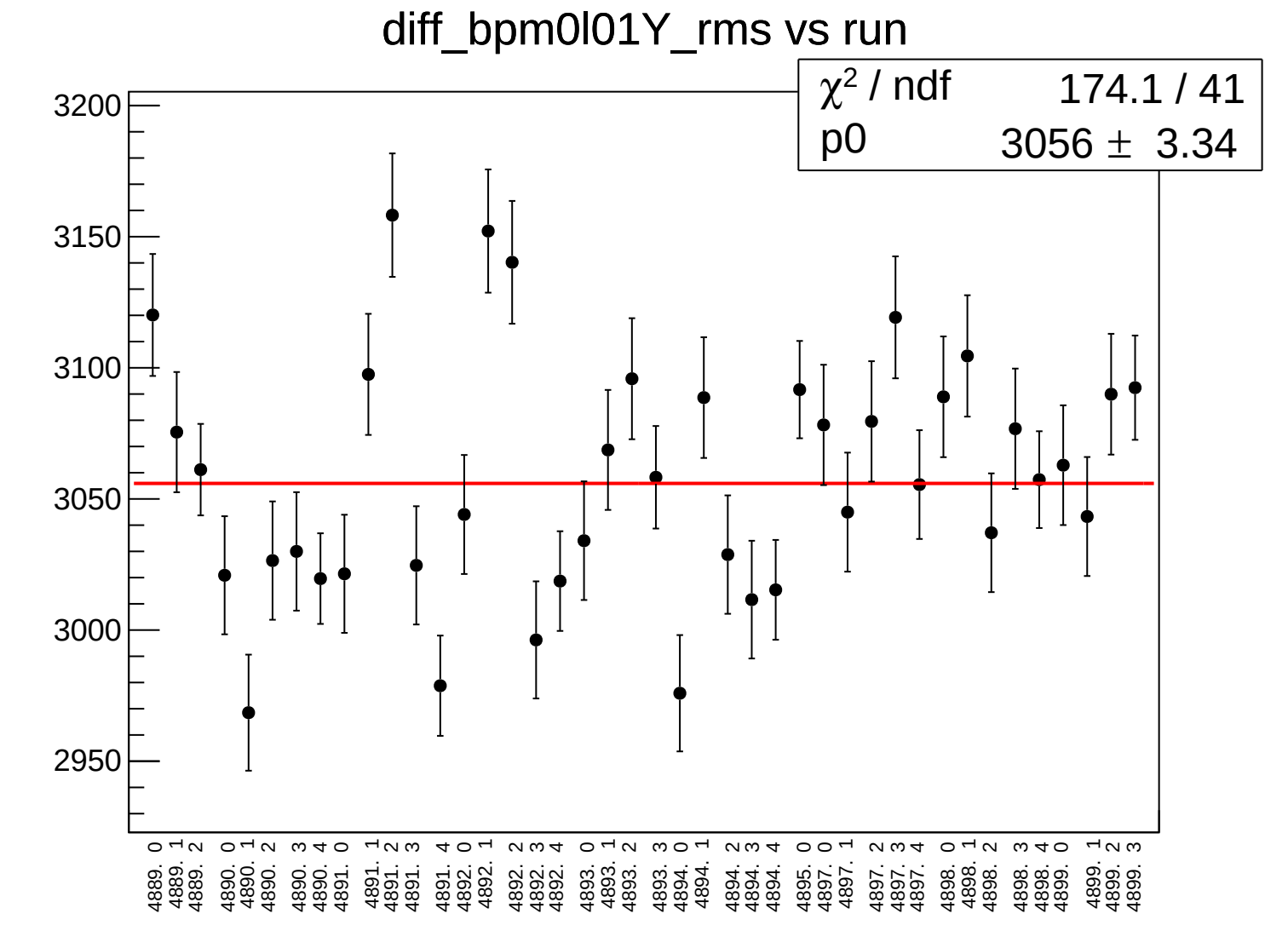

diff_bpm0l01X_mean vs run
χ² / ndf 48.6 / 41
p0 25.94 ± 11.26
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 149.6
Std Dev 133.8
2
1
0
−1
−2

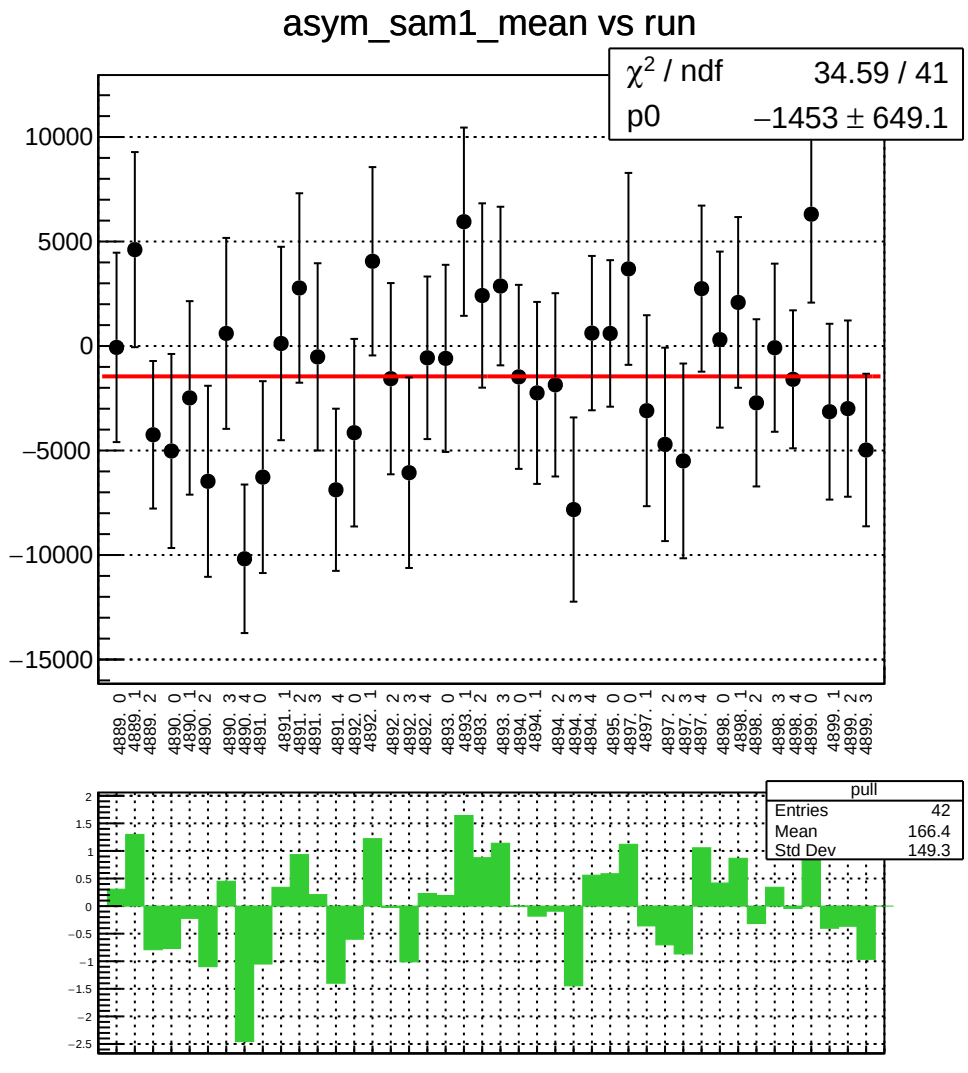

pull1D
Entries 42
Mean 0.01495
Std Dev 1.076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

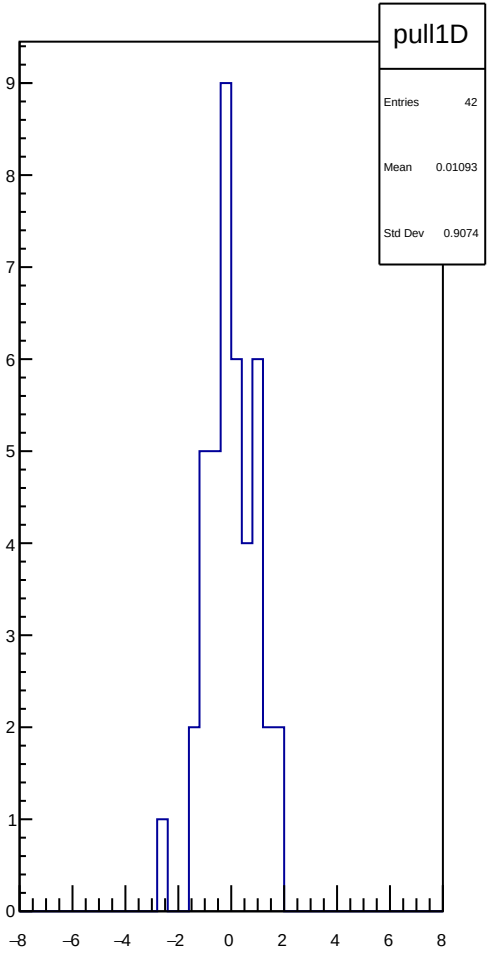

diff_bpm0l01X_rms vs run
χ² / ndf 156.5 / 41
p0 7287 ± 7.963
7600
7500
7400
7300
7200
7100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

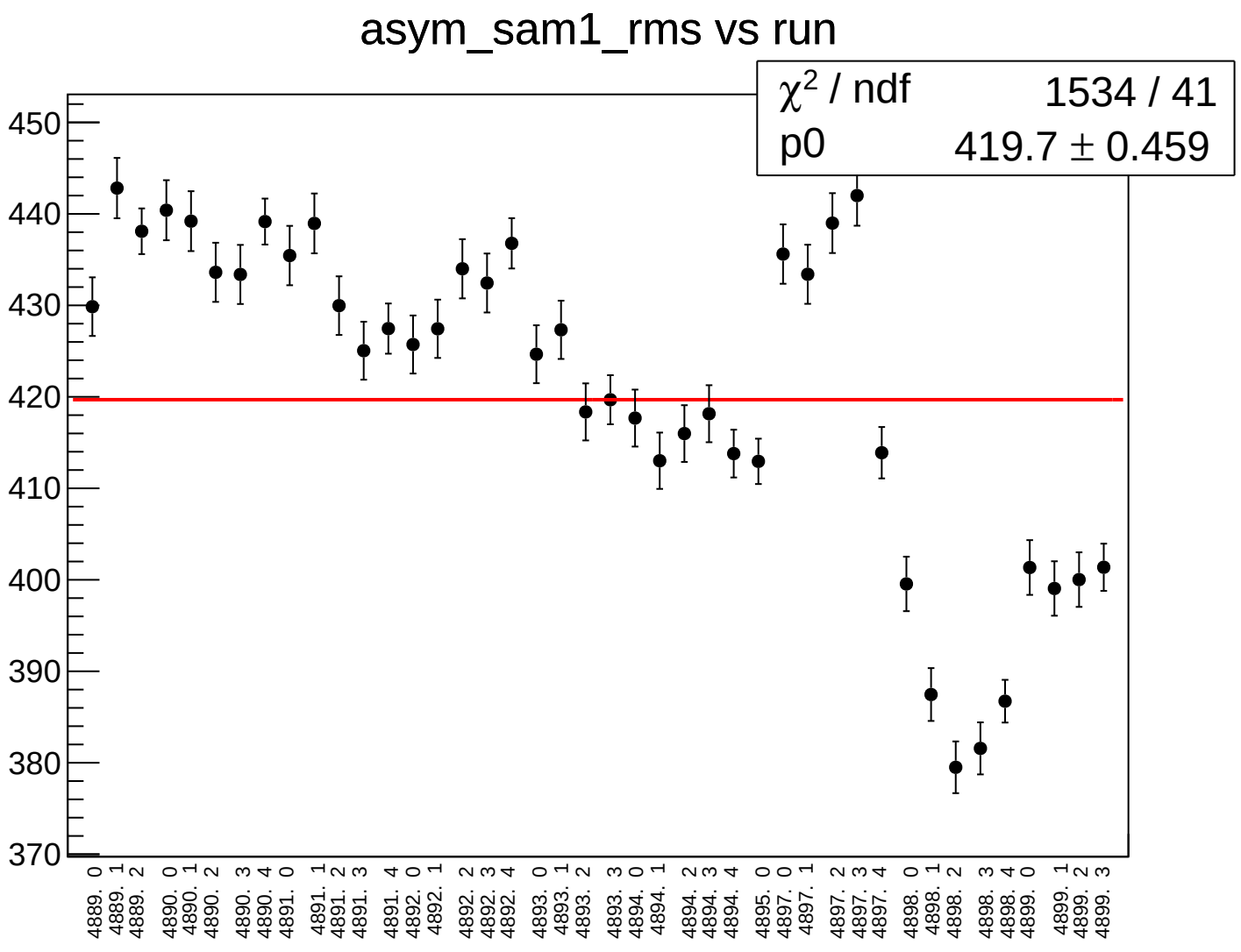

diff_bpm0l01Y_mean vs run
χ² / ndf 44.33 / 41
p0 17.2 ± 4.723
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 356
Std Dev 338
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

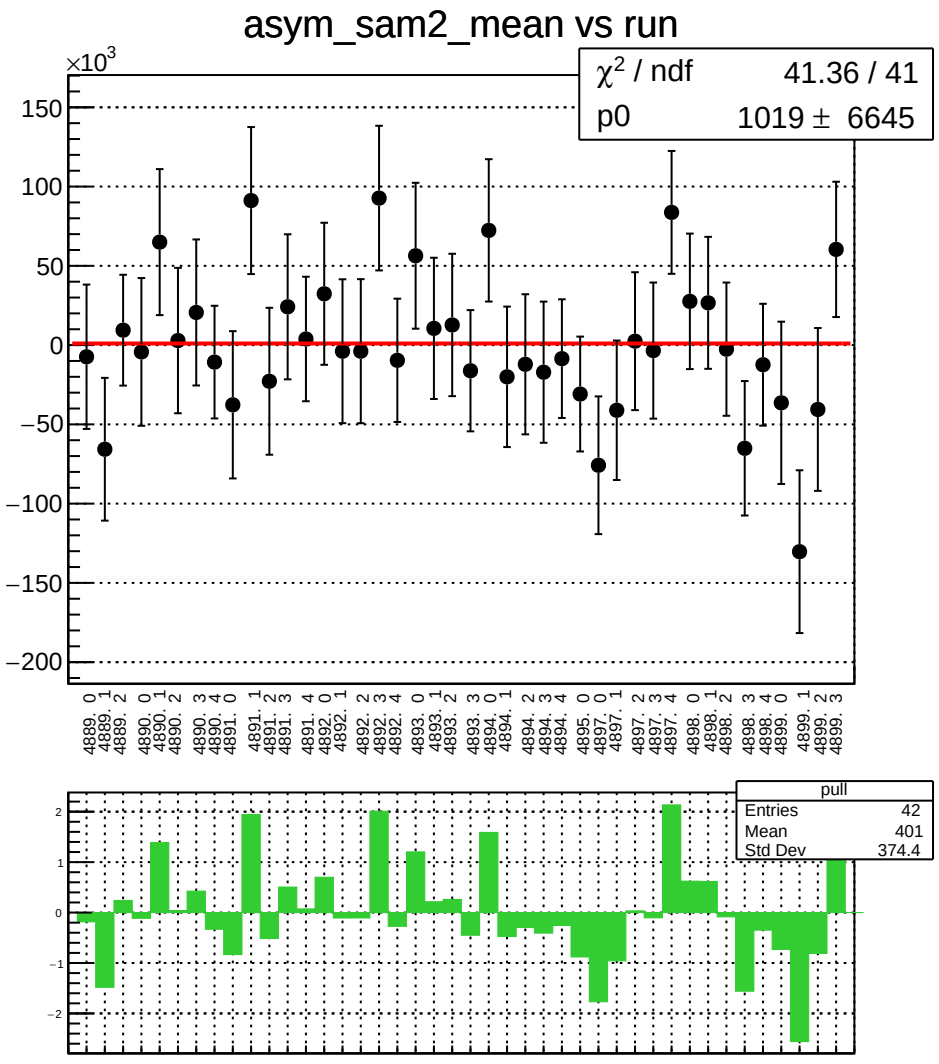

pull1D
Entries 42
Mean 0.01542
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

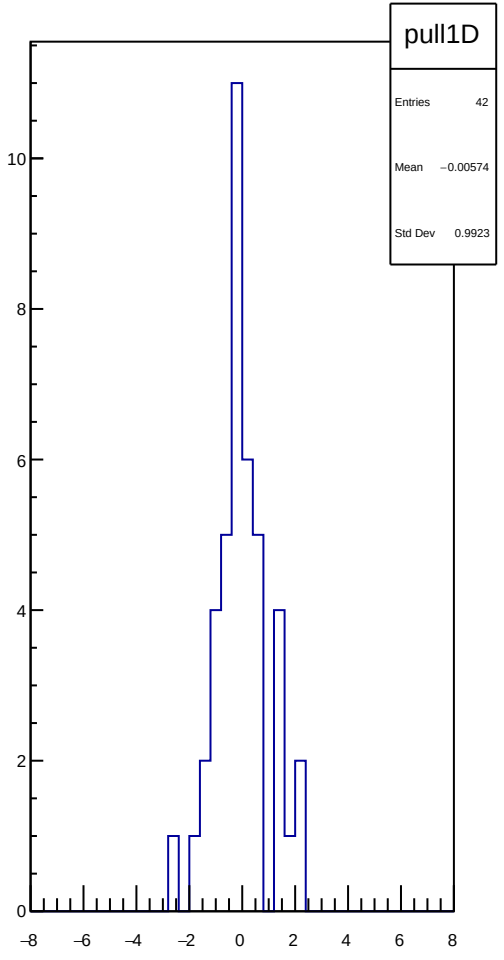

diff_bpm0l01Y_rms vs run
χ² / ndf 174.1 / 41
p0 3056 ± 3.34
3200
3150
3100
3050
3000
2950
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

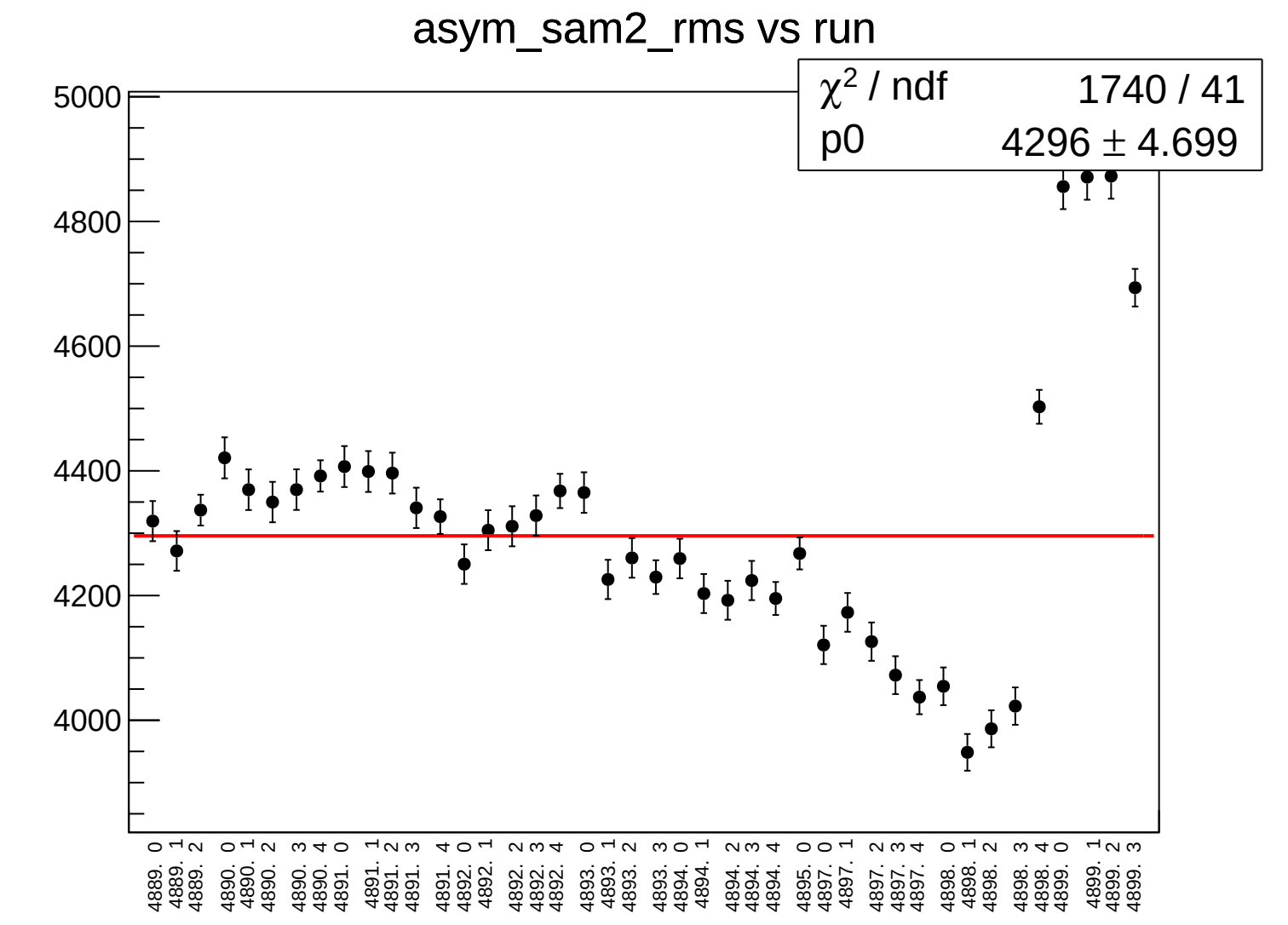

asym_sam1_mean vs run
χ² / ndf 34.59 / 41
p0 −1453 ± 649.1
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 166.4
Std Dev 149.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

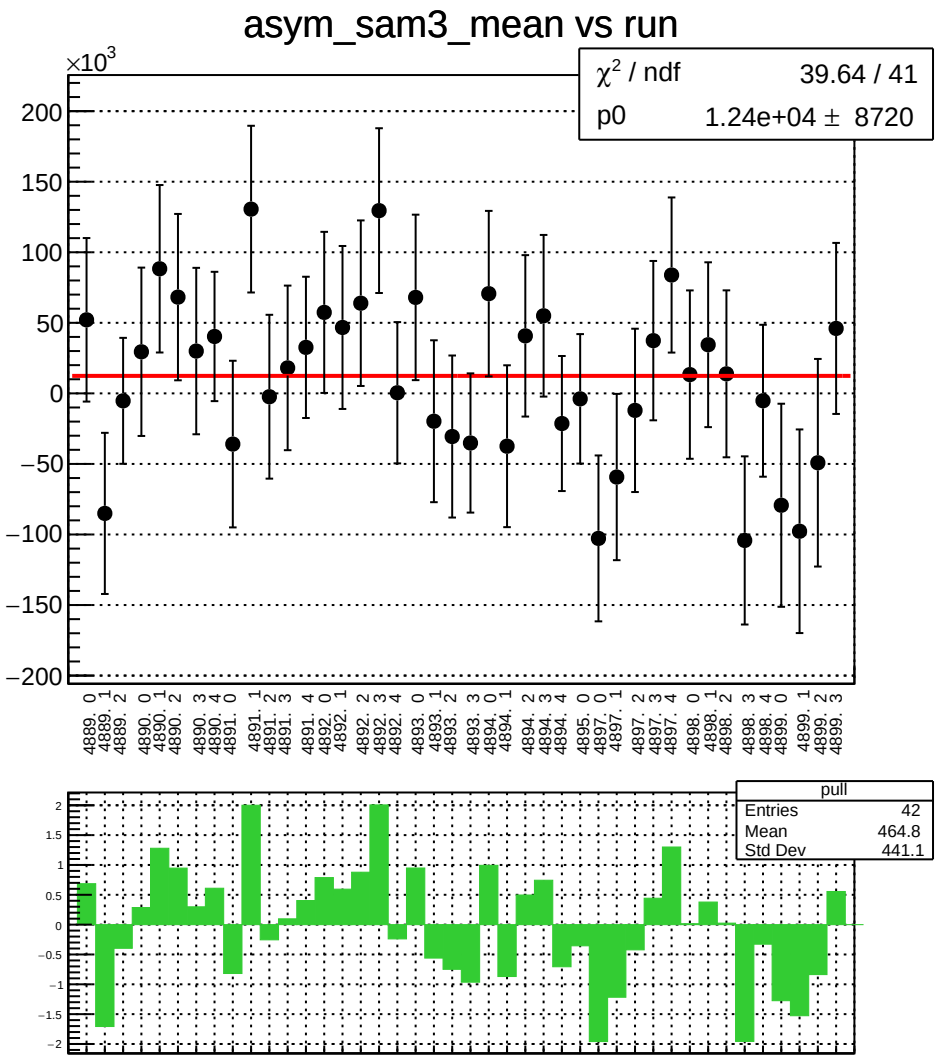

pull1D
Entries 42
Mean 0.01093
Std Dev 0.9074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

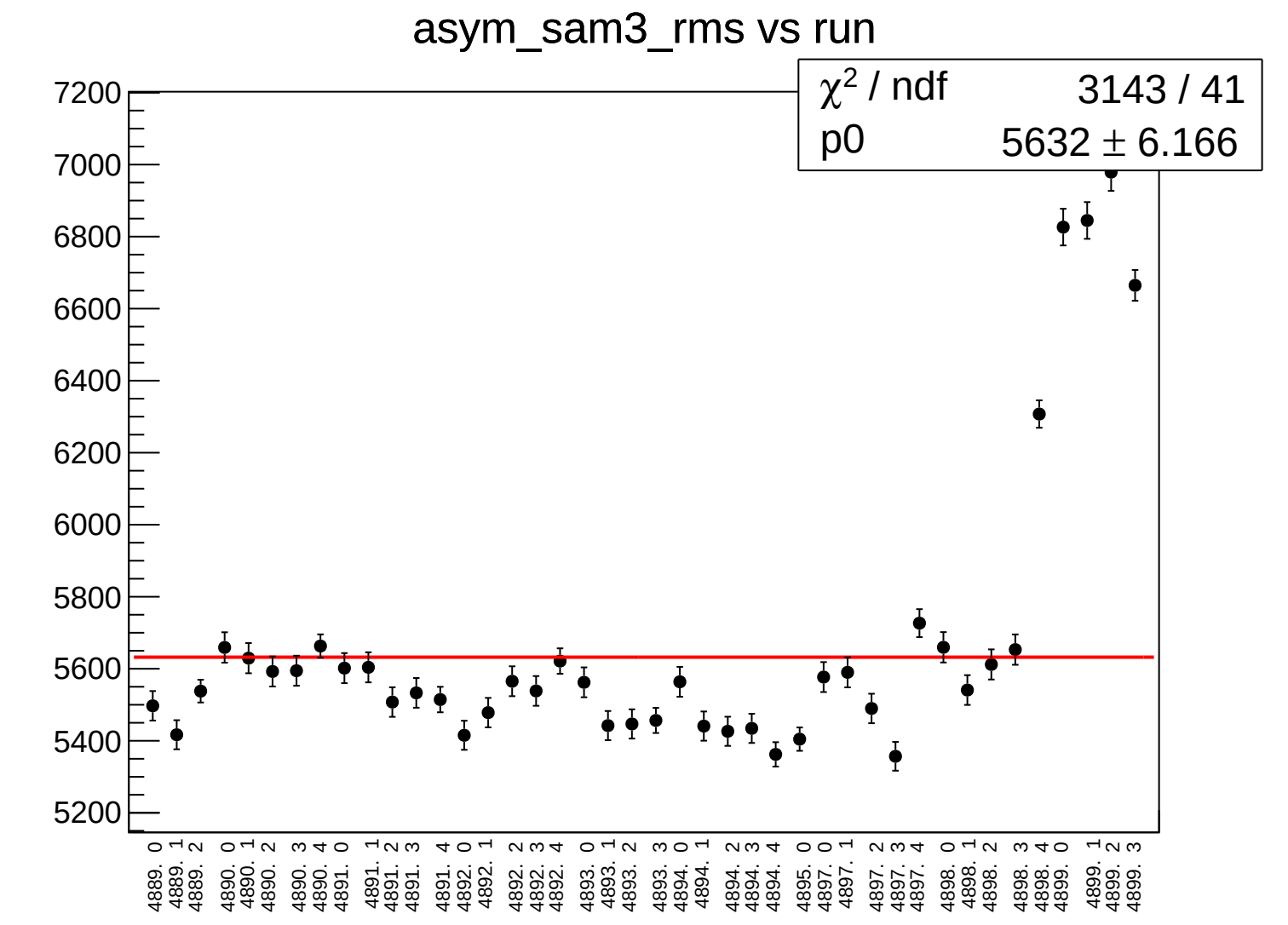

asym_sam1_rms vs run
χ² / ndf 1534 / 41
p0 419.7 ± 0.459
450
440
430
420
410
400
390
380
370
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

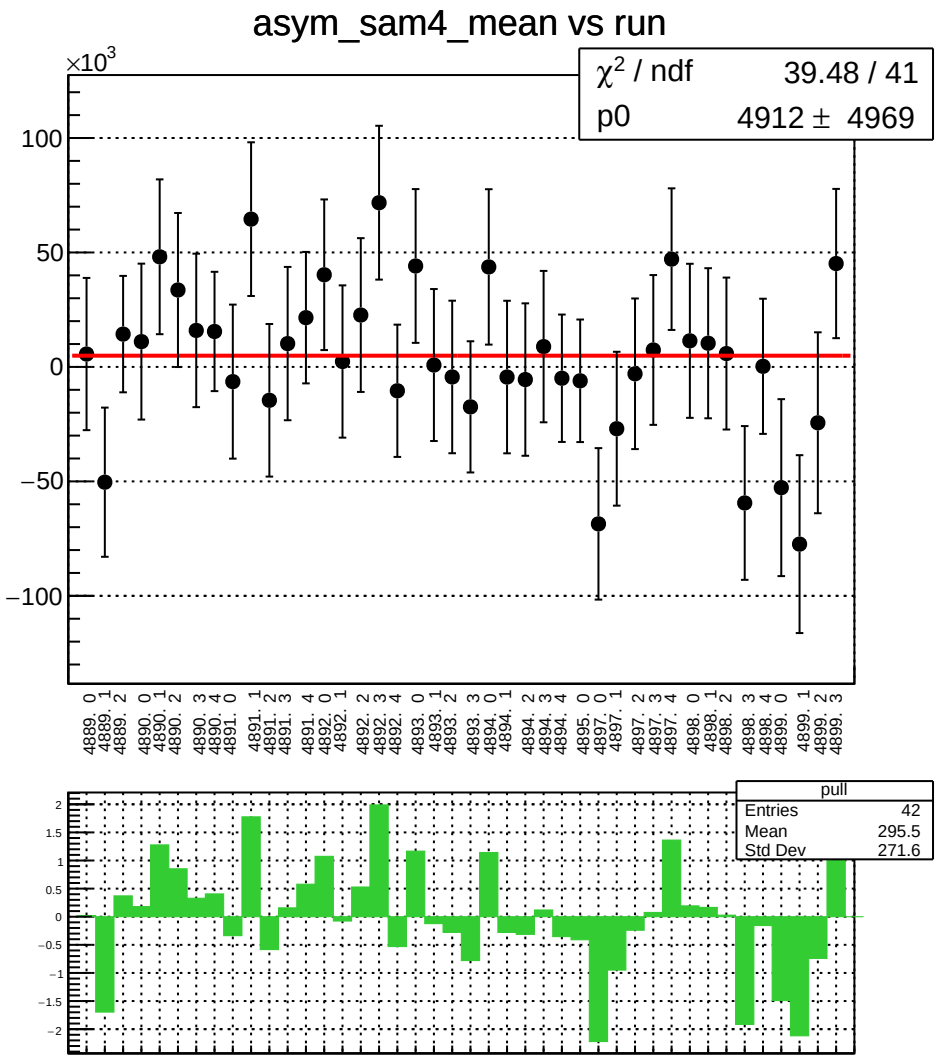

asym_sam2_mean vs run
×10^3
χ^2 / ndf 41.36 / 41
p0 1019 ± 6645
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 401
Std Dev 374.4
2
1
0
−1
−2

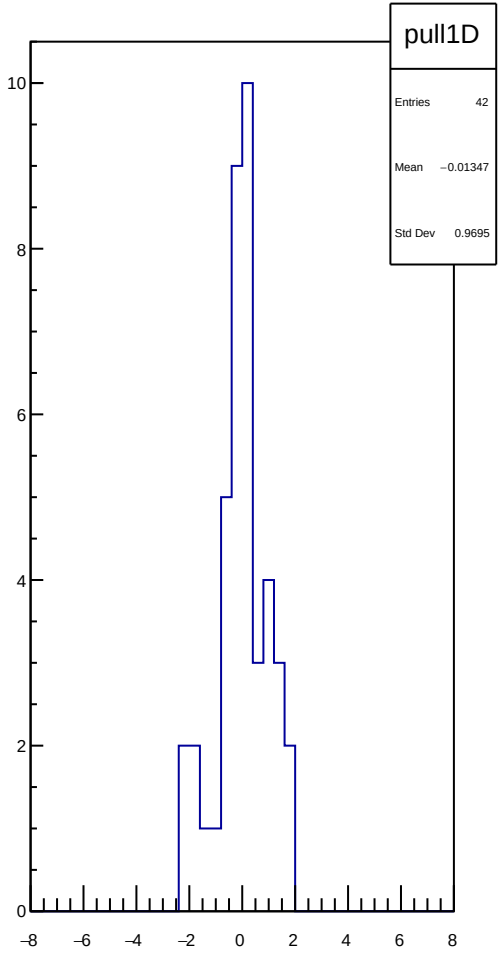

pull1D
Entries 42
Mean −0.00574
Std Dev 0.9923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

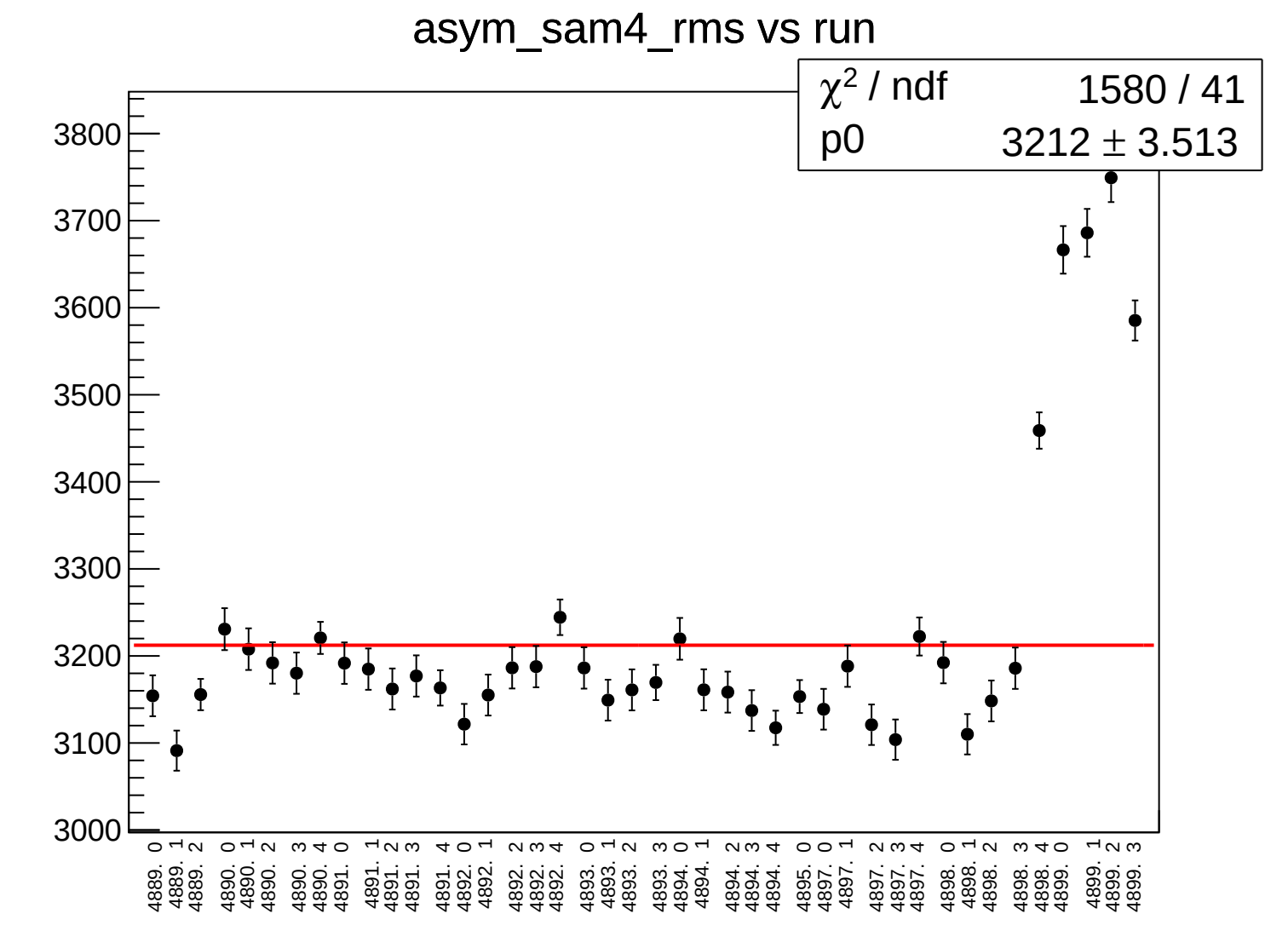

asym_sam2_rms vs run
χ² / ndf 1740 / 41
p0 4296 ± 4.699
5000
4800
4600
4400
4200
4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

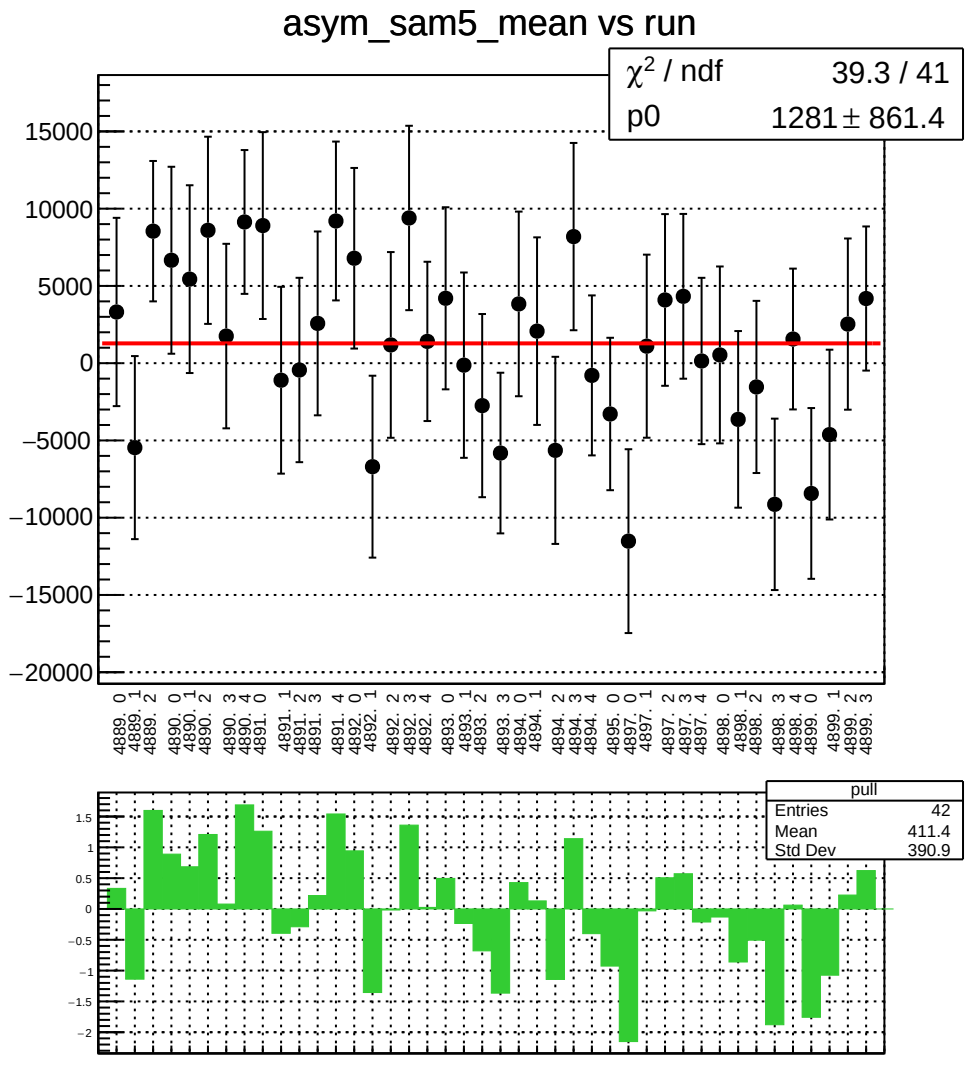

asym_sam3_mean vs run
×10^3
χ² / ndf 39.64 / 41
p0 1.24e+04 ± 8720
200
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 464.8
Std Dev 441.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.008716
Std Dev 0.9715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

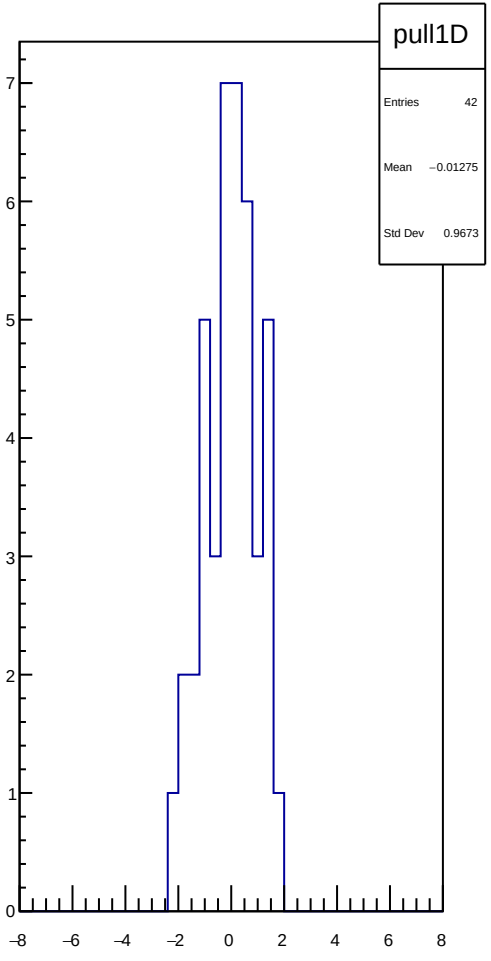

asym_sam3_rms vs run
χ² / ndf 3143 / 41
p0 5632 ± 6.166
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

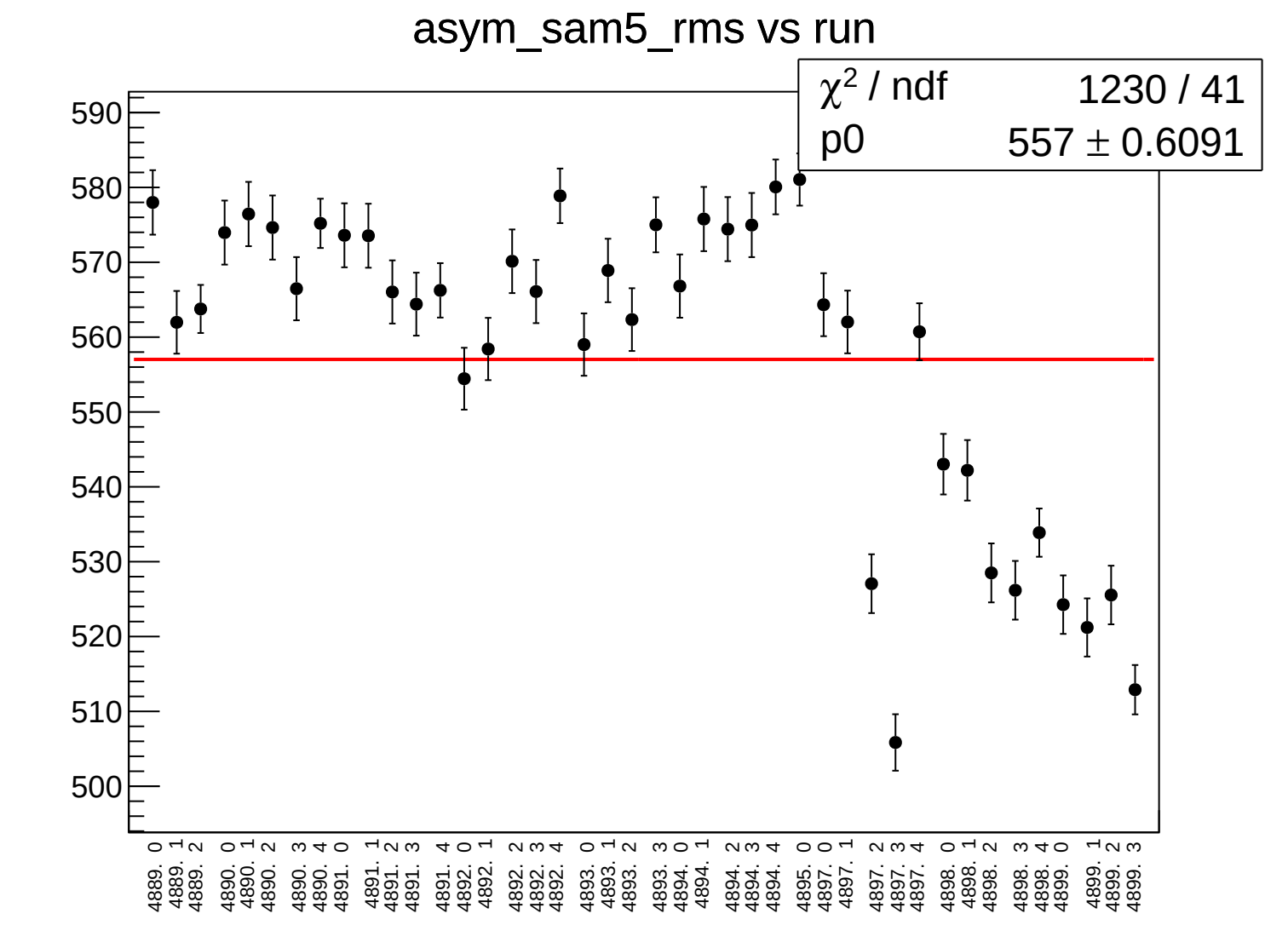

asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.48 / 41
p0 4912 ± 4969
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 295.5
Std Dev 271.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

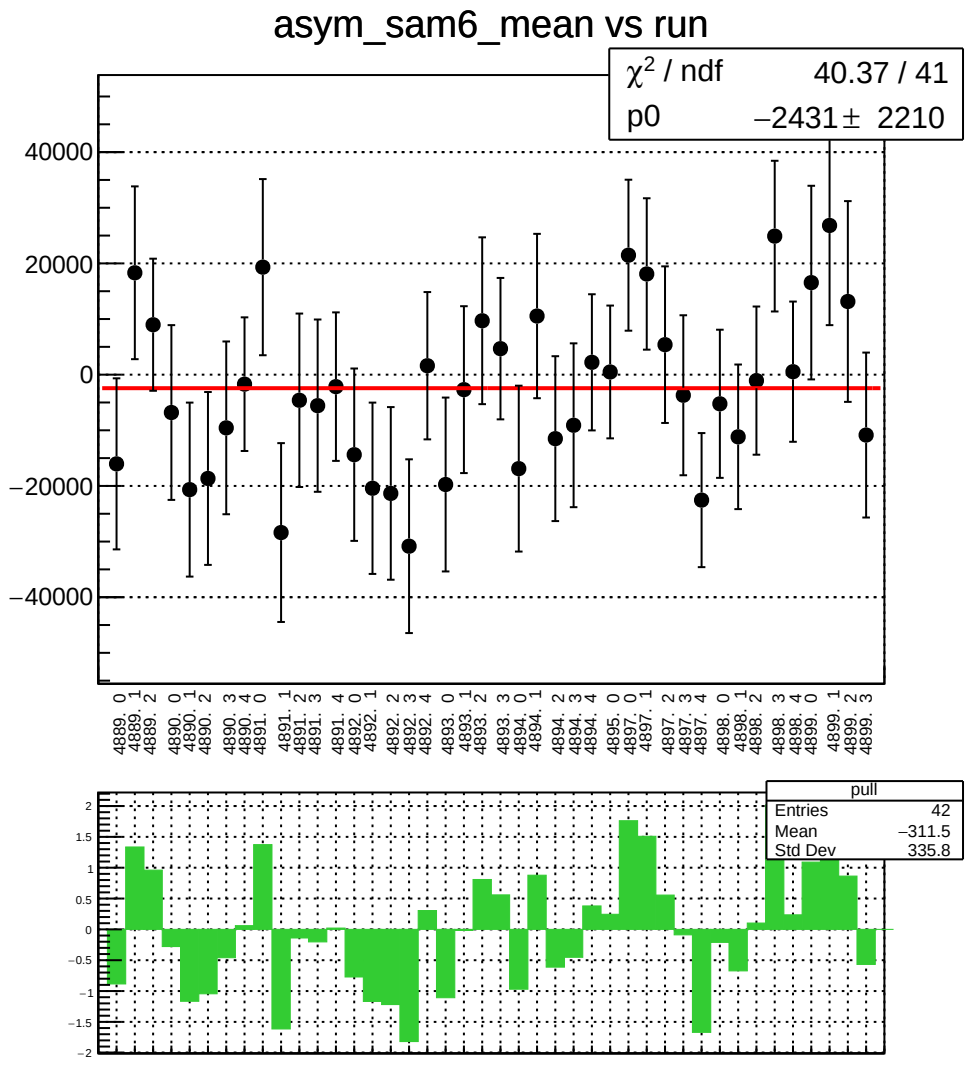

pull1D
Entries 42
Mean −0.01347
Std Dev 0.9695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

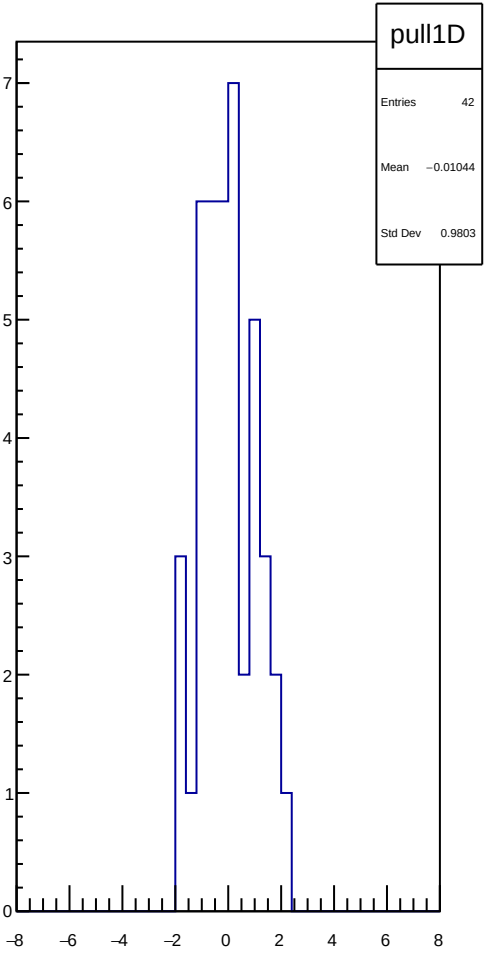

asym_sam4_rms vs run
χ² / ndf 1580 / 41
p0 3212 ± 3.513
3800
3700
3600
3500
3400
3300
3200
3100
3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

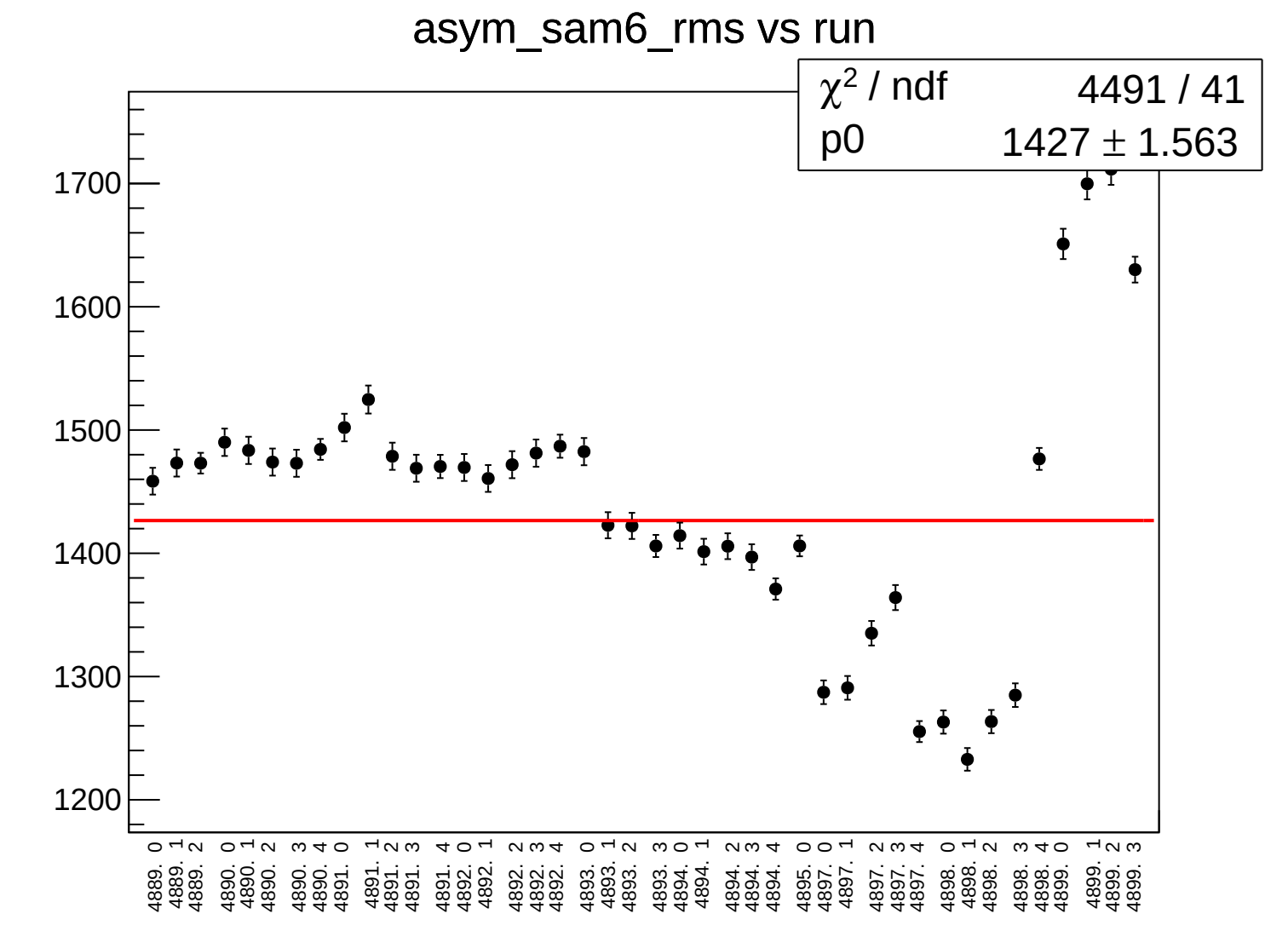

asym_sam5_mean vs run
χ² / ndf 39.3 / 41
p0 1281 ± 861.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 411.4
Std Dev 390.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

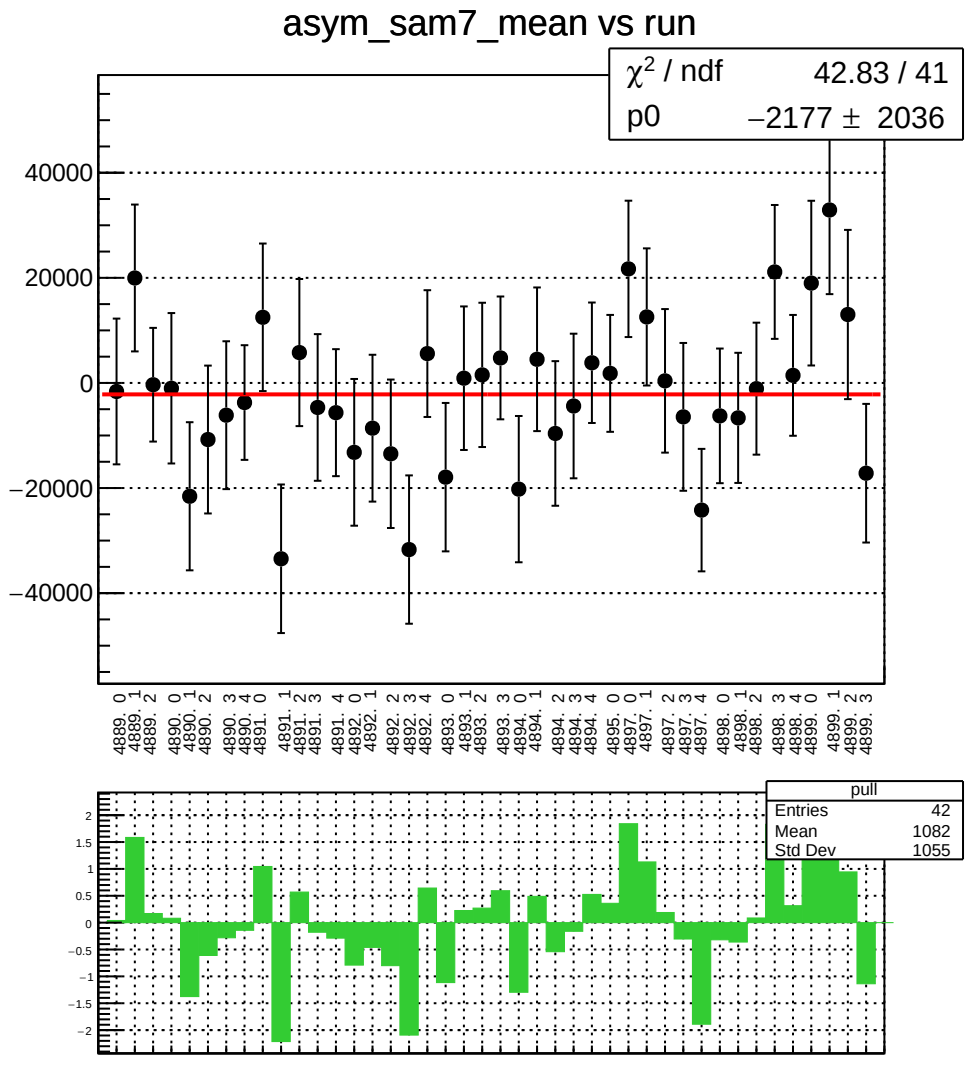

pull1D
Entries 42
Mean −0.01275
Std Dev 0.9673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

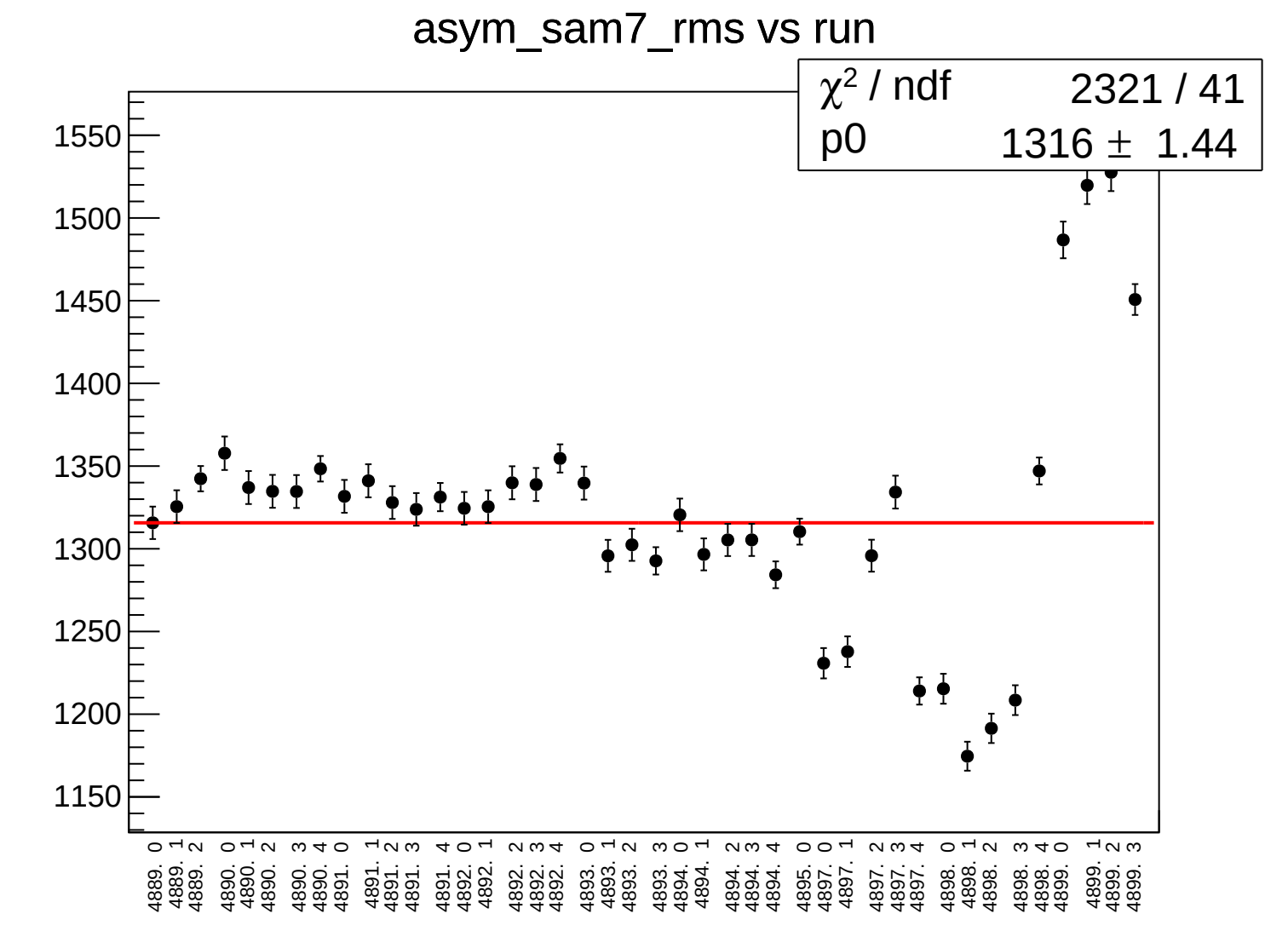

asym_sam5_rms vs run
χ² / ndf 1230 / 41
p0 557 ± 0.6091
590
580
570
560
550
540
530
520
510
500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

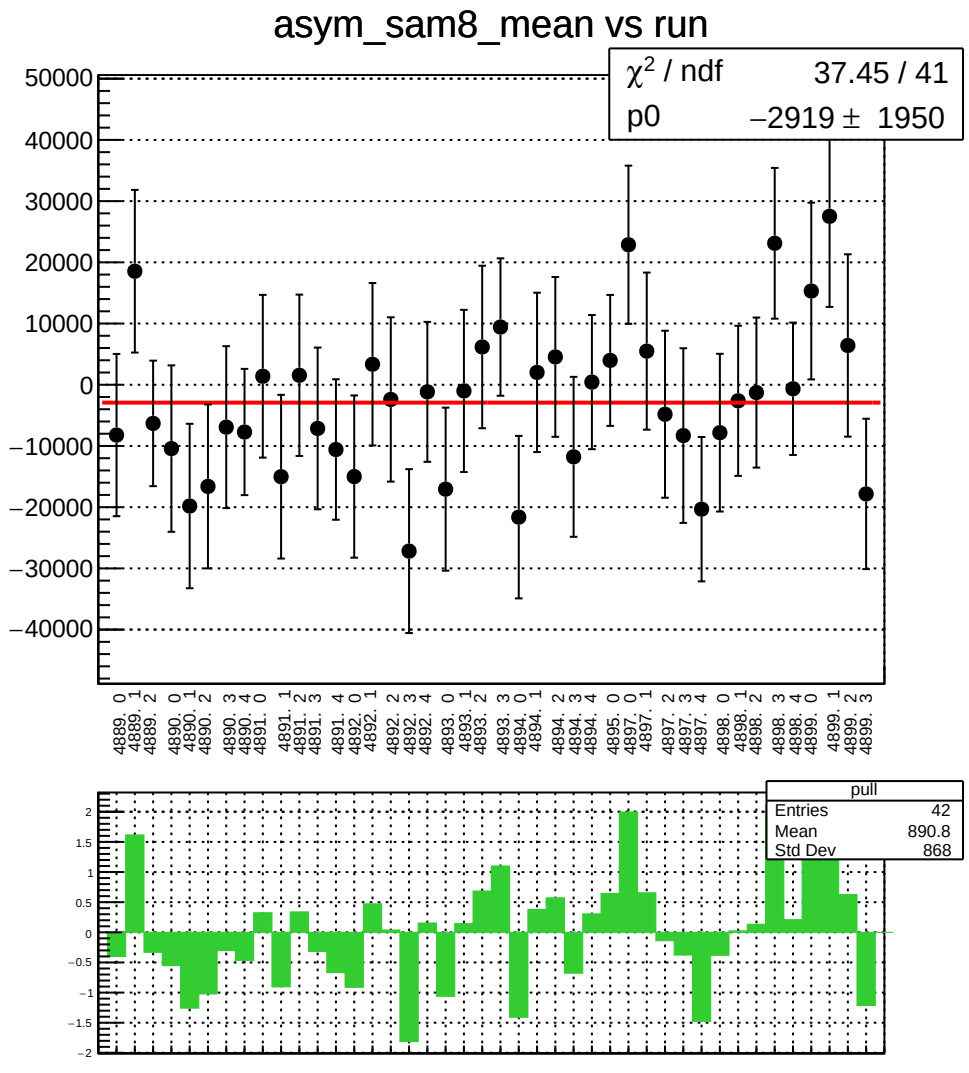

asym_sam6_mean vs run
χ² / ndf 40.37 / 41
p0 −2431 ± 2210
40000
20000
0
−20000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −311.5
Std Dev 335.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

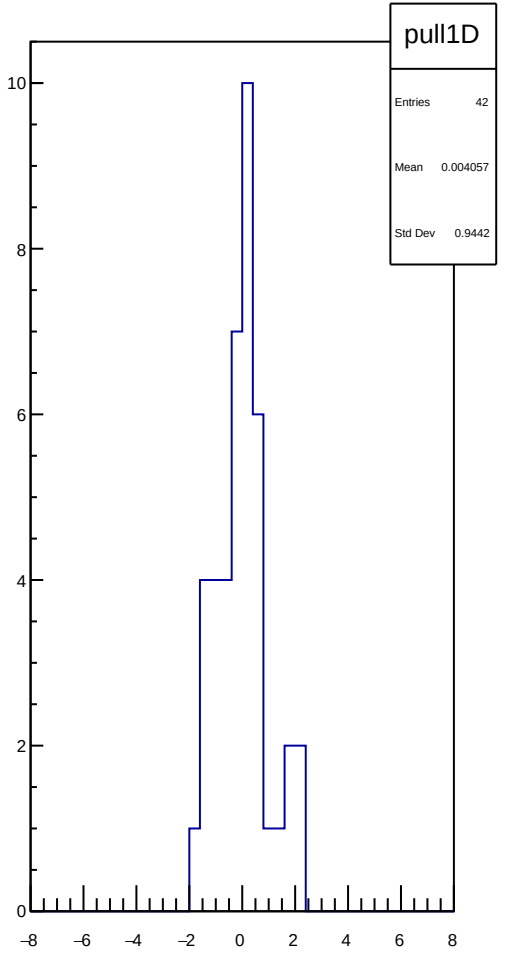

pull1D
Entries 42
Mean −0.01044
Std Dev 0.9803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

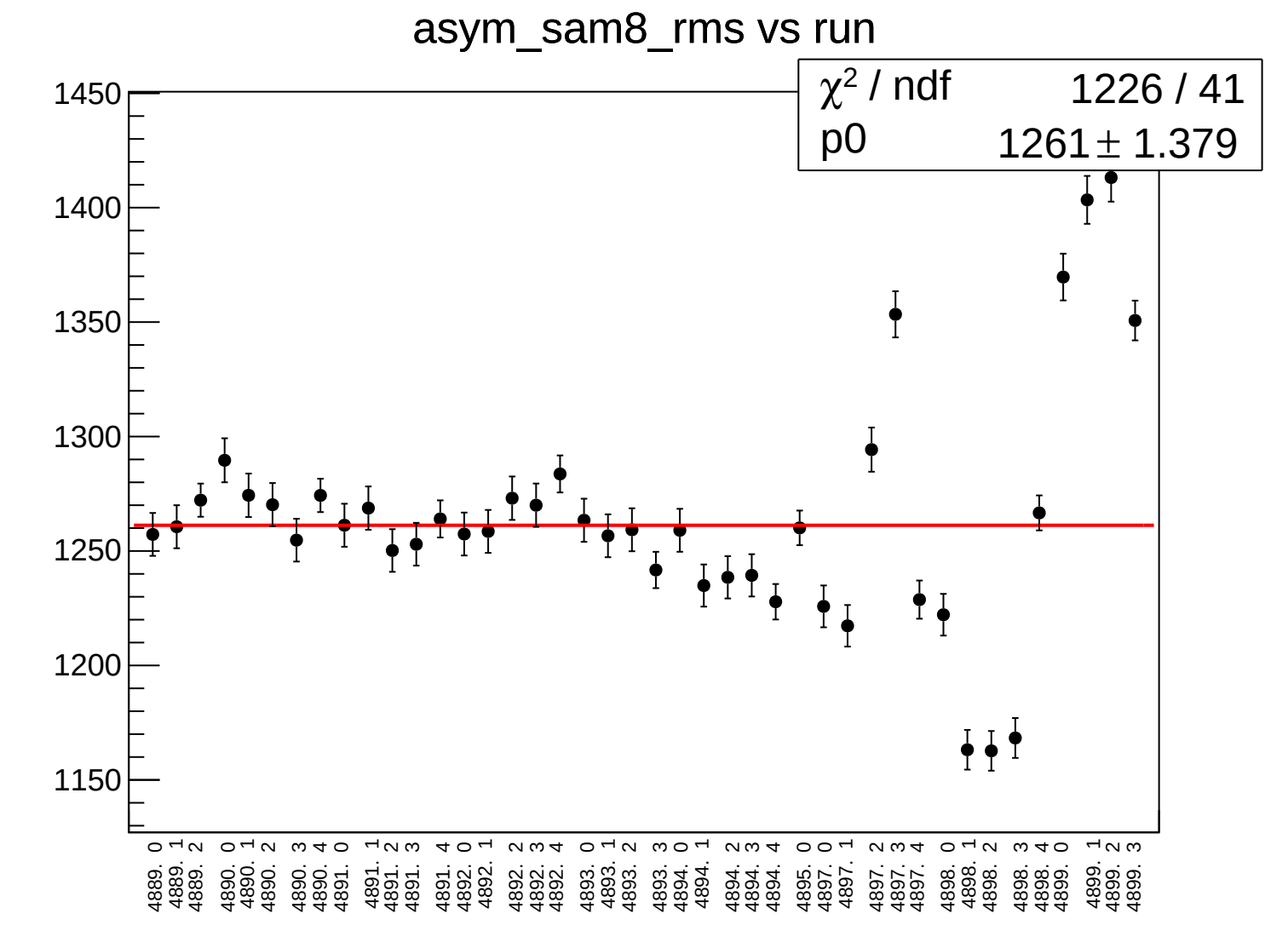

asym_sam6_rms vs run
χ² / ndf 4491 / 41
p0 1427 ± 1.563
1700
1600
1500
1400
1300
1200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

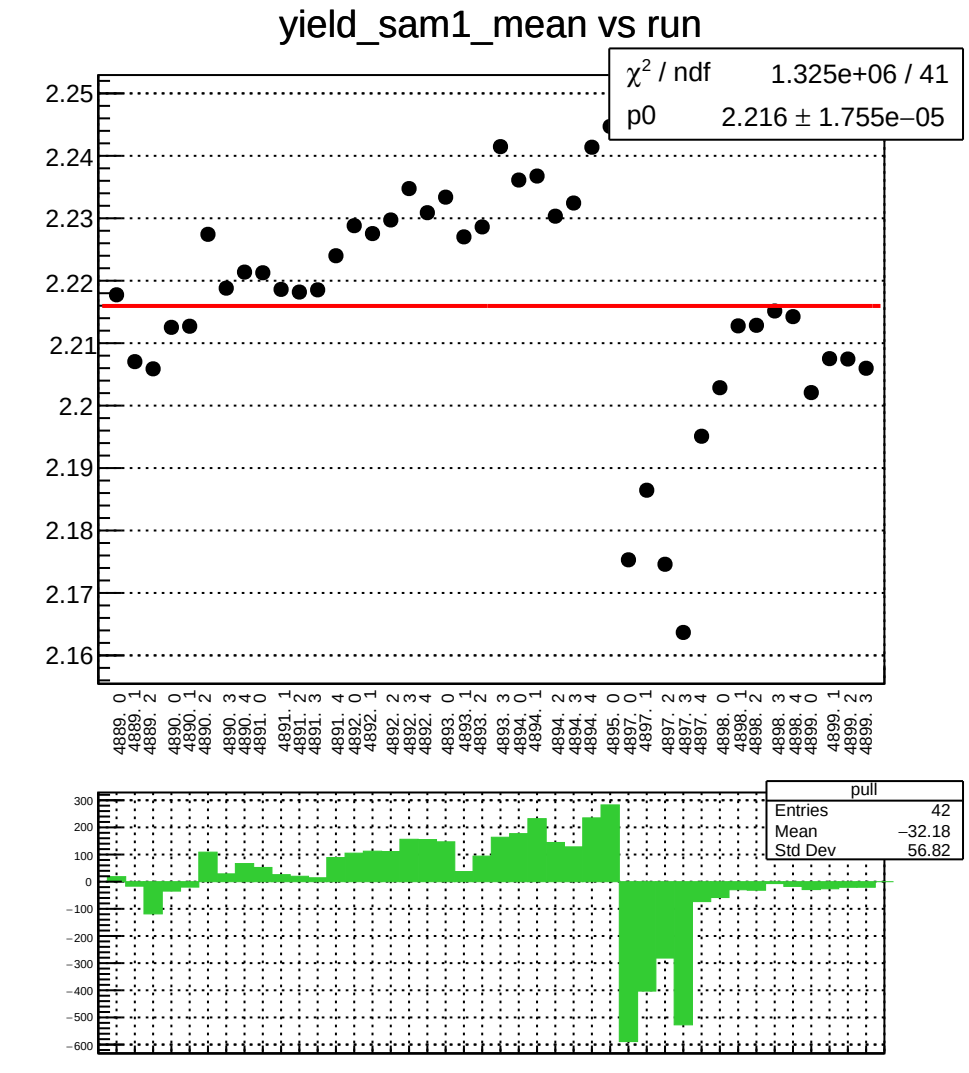

asym_sam7_mean vs run
χ² / ndf 42.83 / 41
p0 −2177 ± 2036
40000
20000
0
−20000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1082
Std Dev 1055
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.002759
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

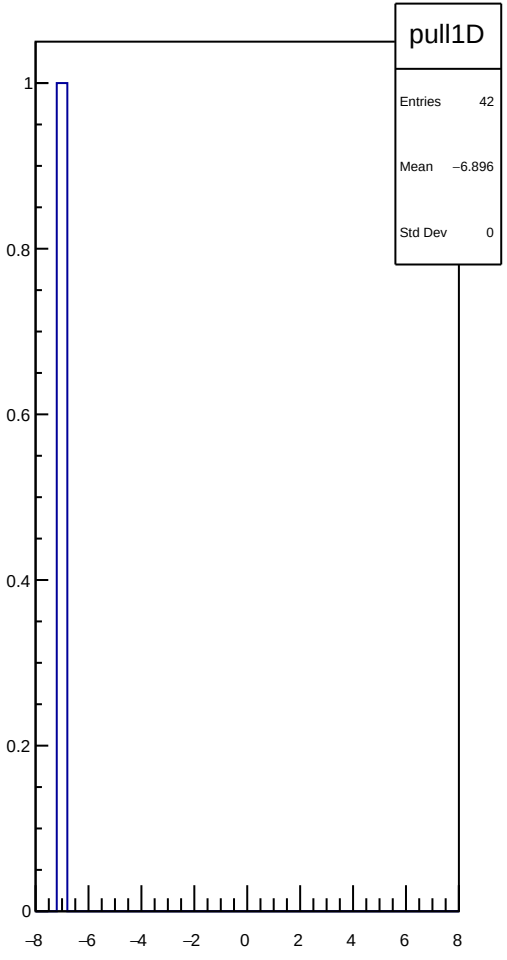

asym_sam7_rms vs run
χ² / ndf 2321 / 41
p0 1316 ± 1.44
1550
1500
1450
1400
1350
1300
1250
1200
1150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

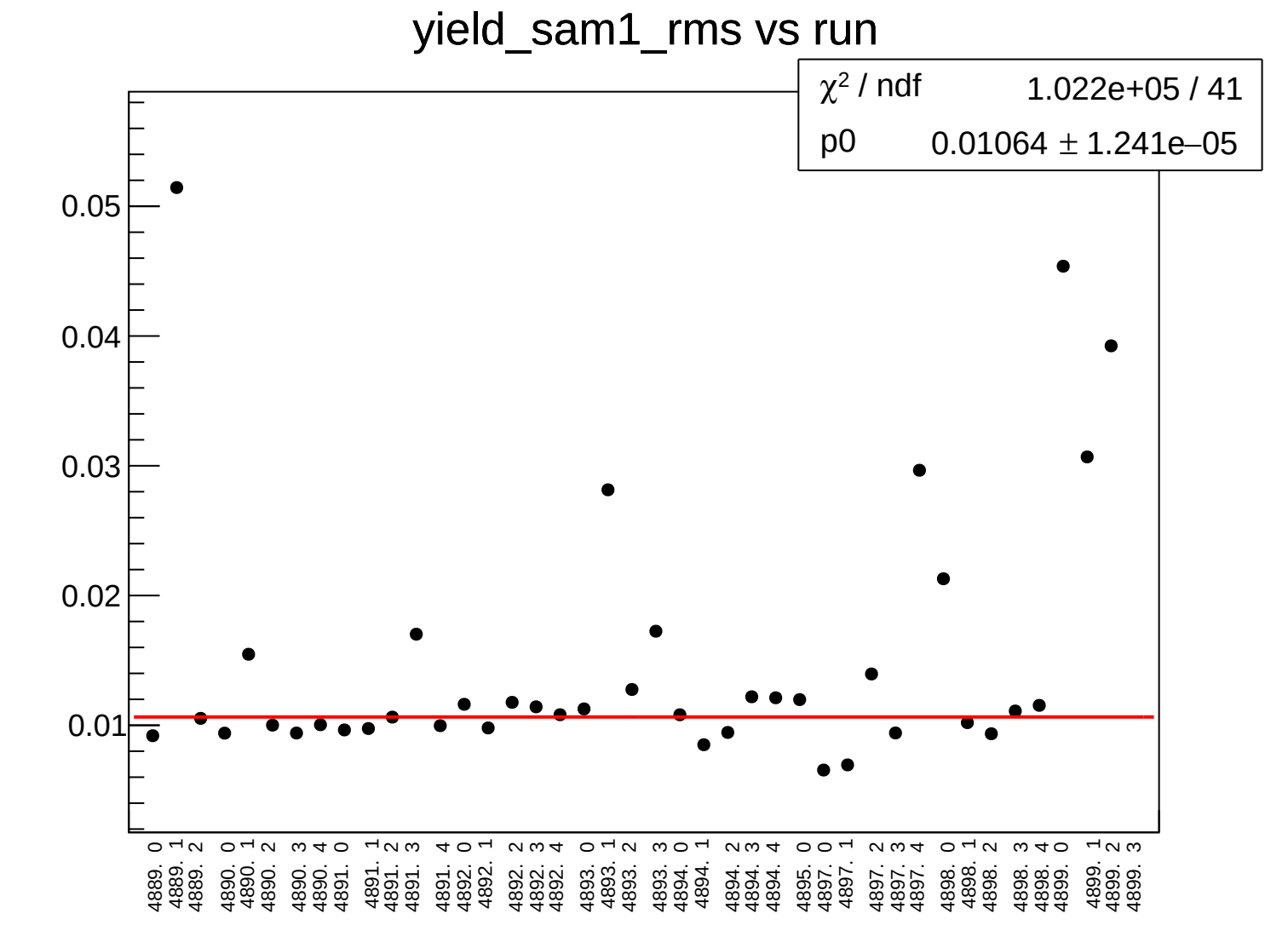

asym_sam8_mean vs run
χ² / ndf 37.45 / 41
p0 −2919 ± 1950
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 890.8
Std Dev 868
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

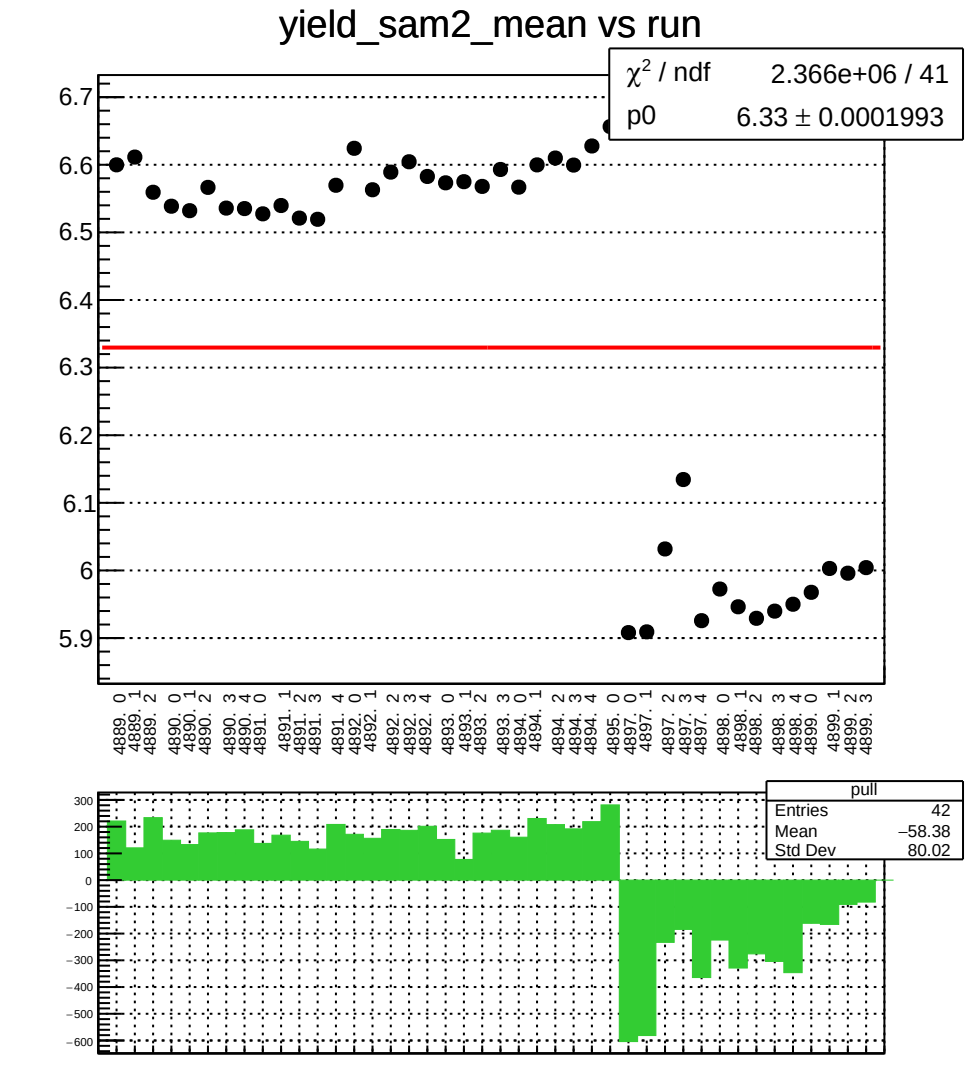

pull1D
Entries 42
Mean 0.004057
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

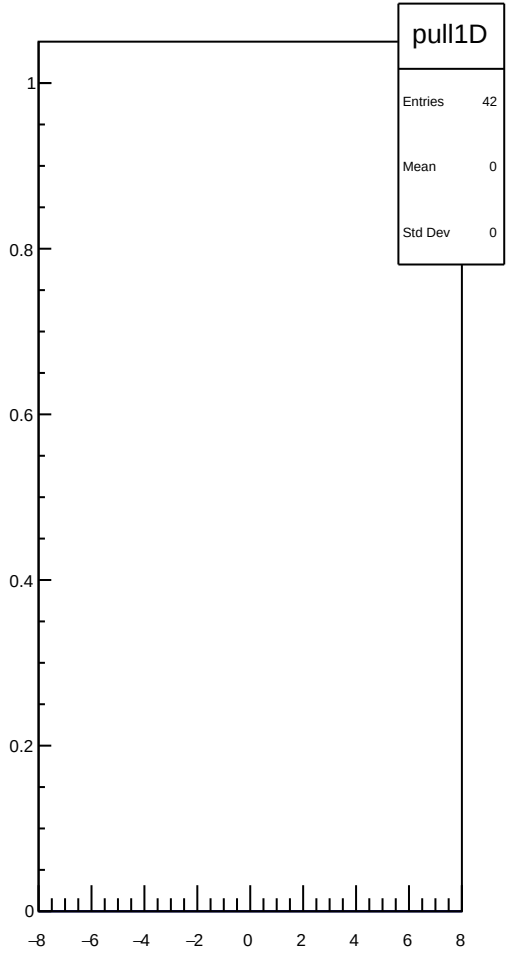

asym_sam8_rms vs run
χ² / ndf 1226 / 41
p0 1261 ± 1.379
1450
1400
1350
1300
1250
1200
1150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

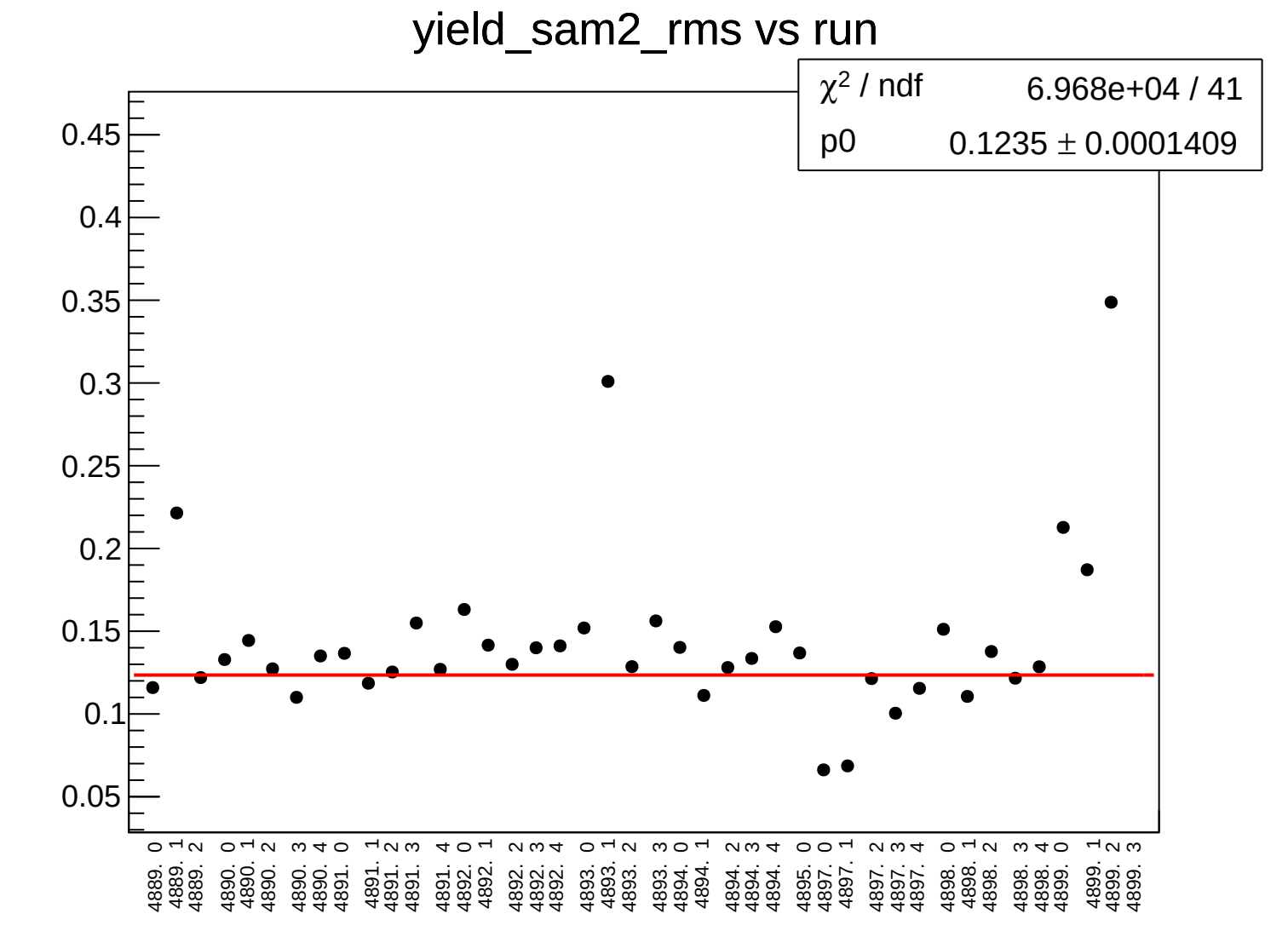

yield_sam1_mean vs run
χ² / ndf 1.325e+06 / 41
p0 2.216 ± 1.755e−05
2.25
2.24
2.23
2.22
2.21
2.2
2.19
2.18
2.17
2.16
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −32.18
Std Dev 56.82
300
200
100
0
−100
−200
−300
−400
−500
−600

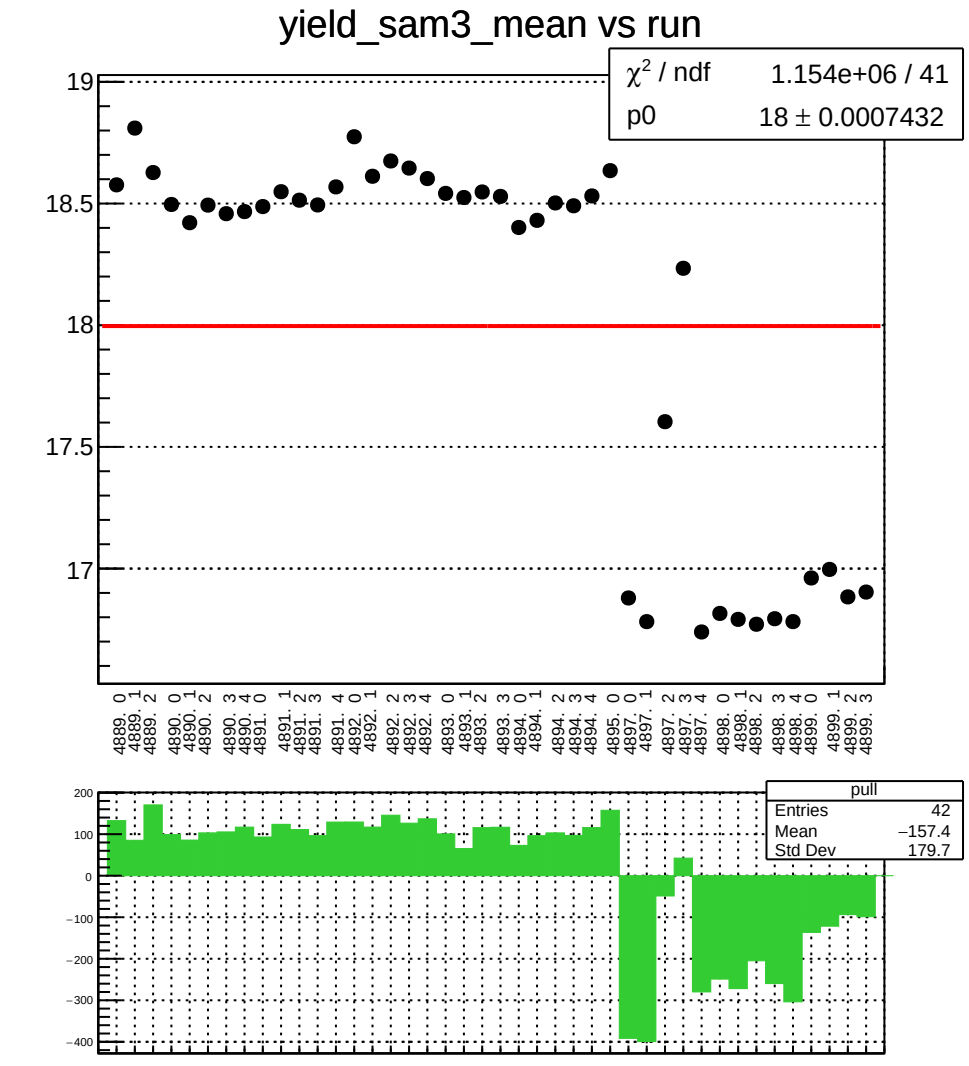

pull1D
Entries 42
Mean −6.896
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

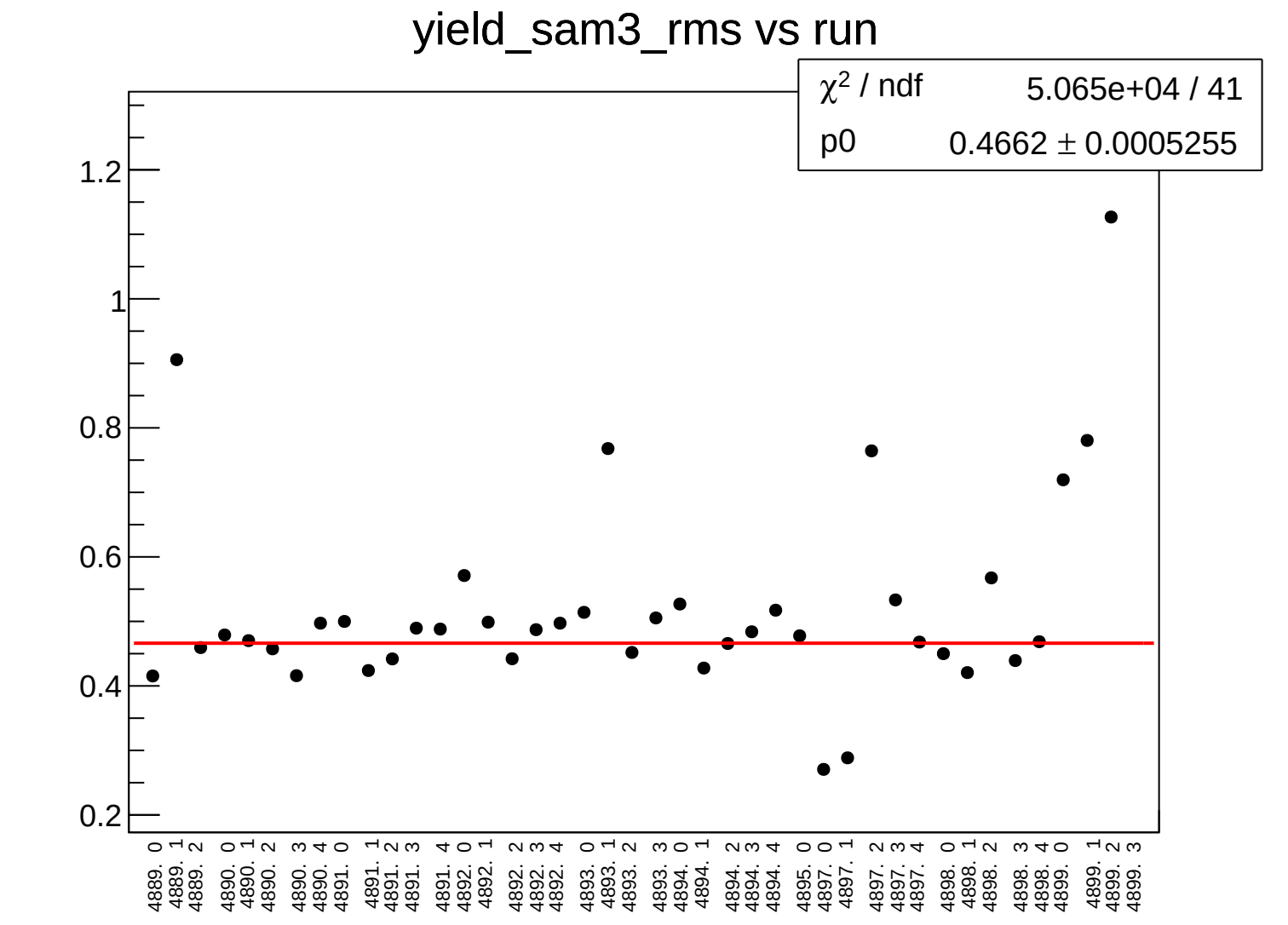

yield_sam1_rms vs run
χ² / ndf 1.022e+05 / 41
p0 0.01064 ± 1.241e−05
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

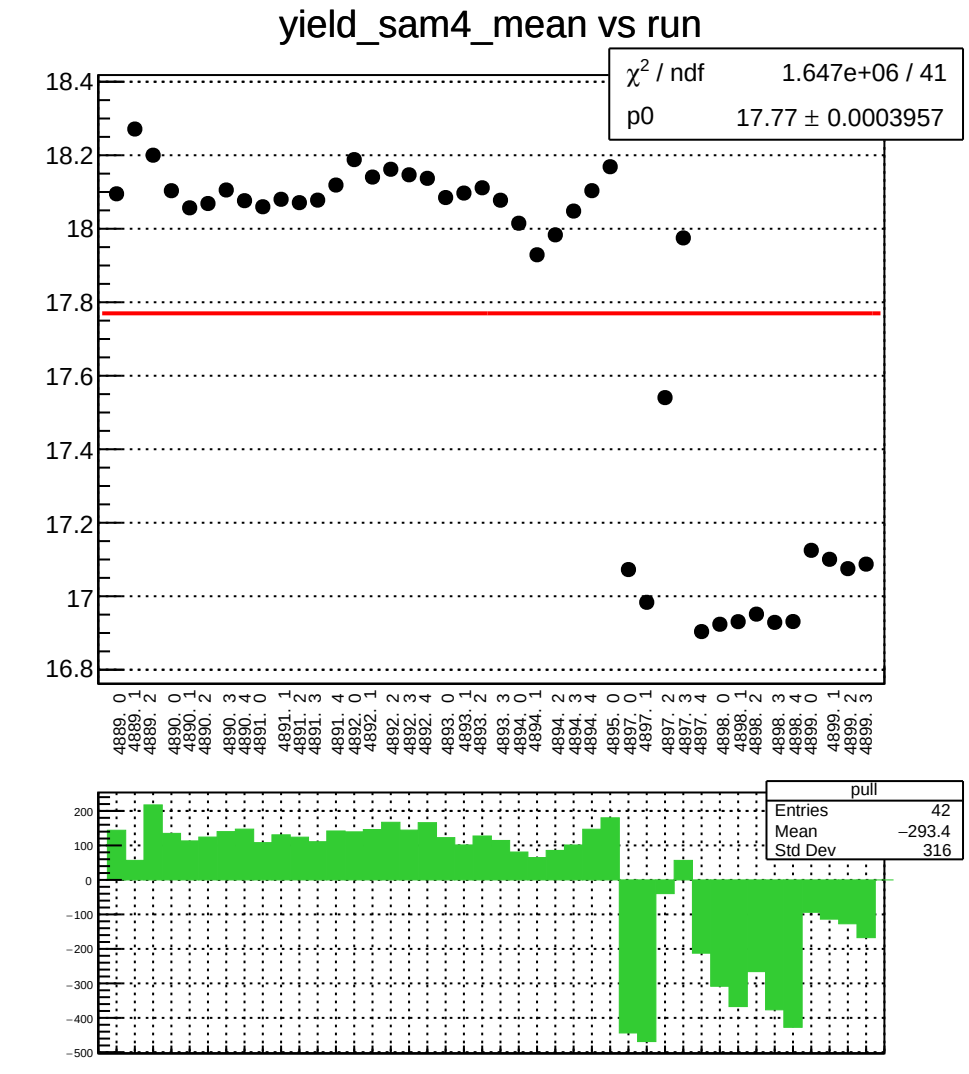

yield_sam2_mean vs run
χ² / ndf 2.366e+06 / 41
p0 6.33 ± 0.0001993
pull
Entries 42
Mean −58.38
Std Dev 80.02

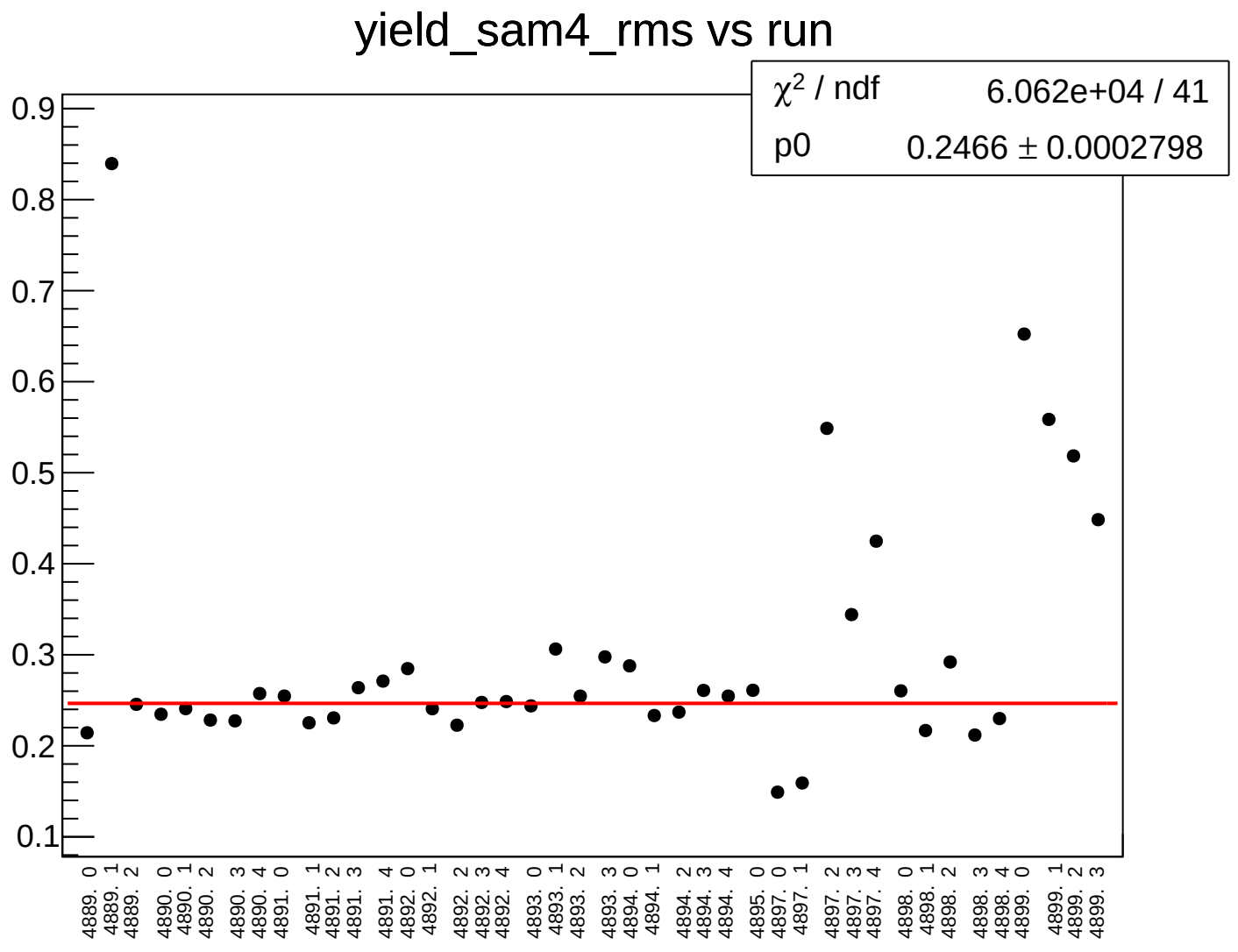

pull1D
Entries 42
Mean 0
Std Dev 0

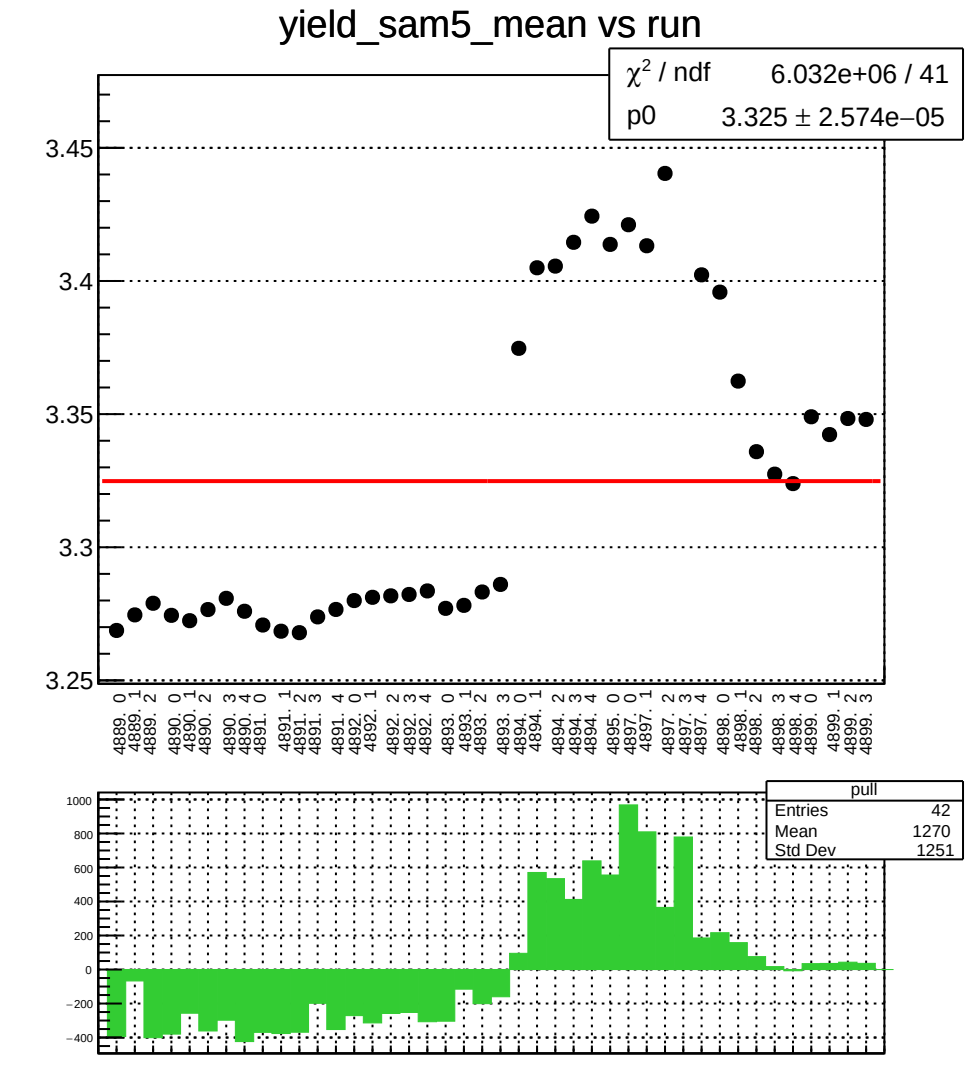

yield_sam2_rms vs run
χ² / ndf 6.968e+04 / 41
p0 0.1235 ± 0.0001409
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

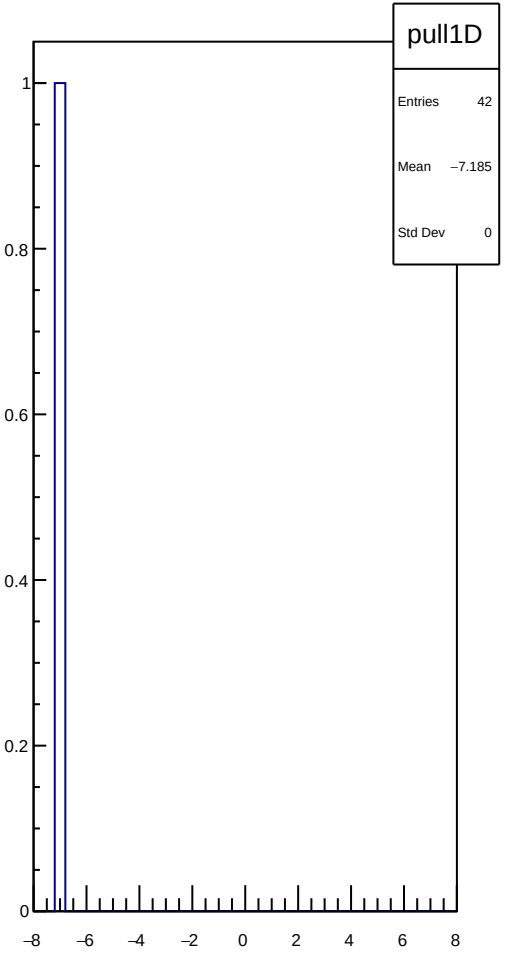

yield_sam3_mean vs run
χ² / ndf 1.154e+06 / 41
p0 18 ± 0.0007432
19
18.5
18
17.5
17
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −157.4
Std Dev 179.7
200
100
0
−100
−200
−300
−400
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

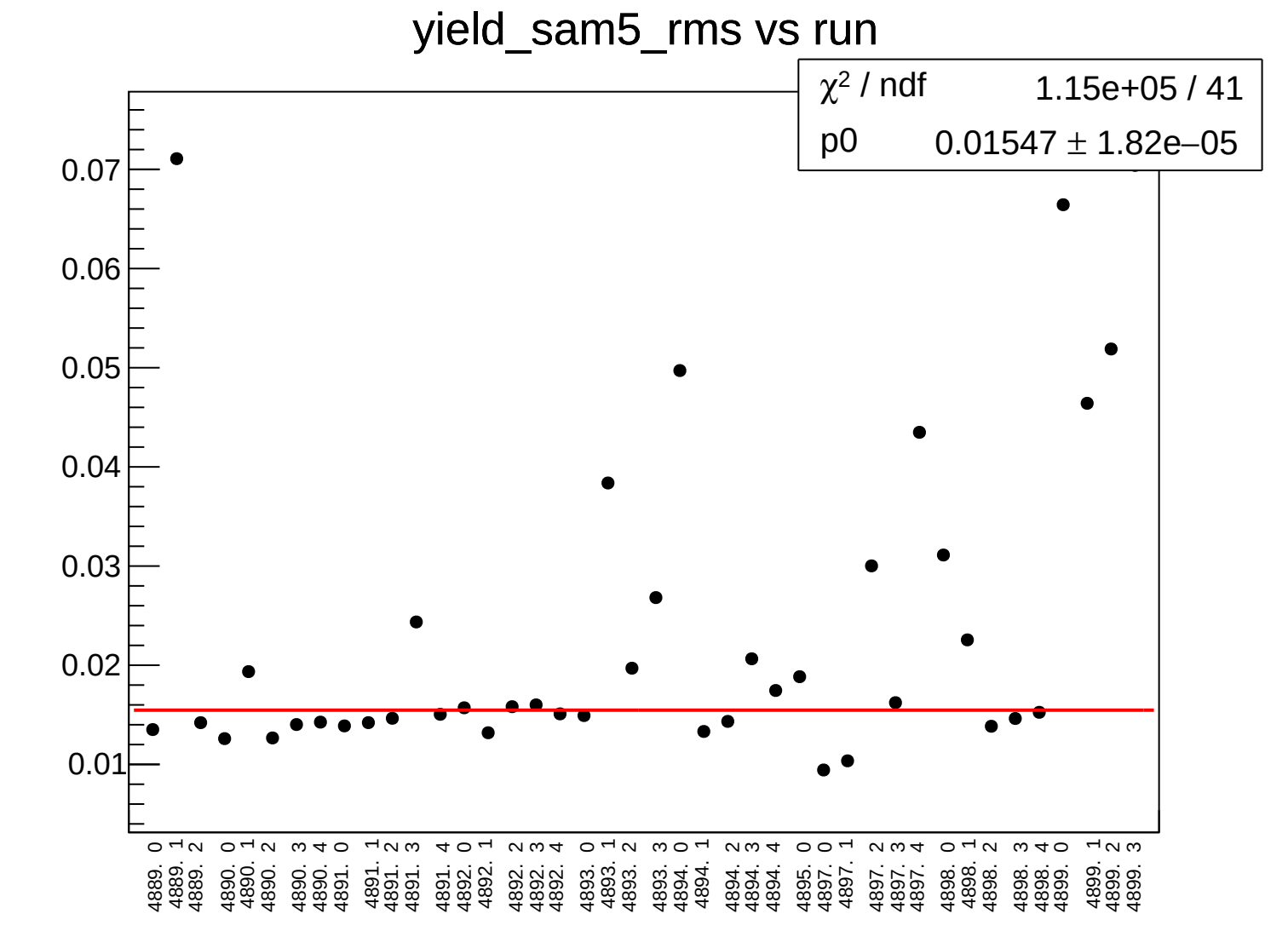

yield_sam3_rms vs run
χ² / ndf 5.065e+04 / 41
p0 0.4662 ± 0.0005255
1.2
1
0.8
0.6
0.4
0.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

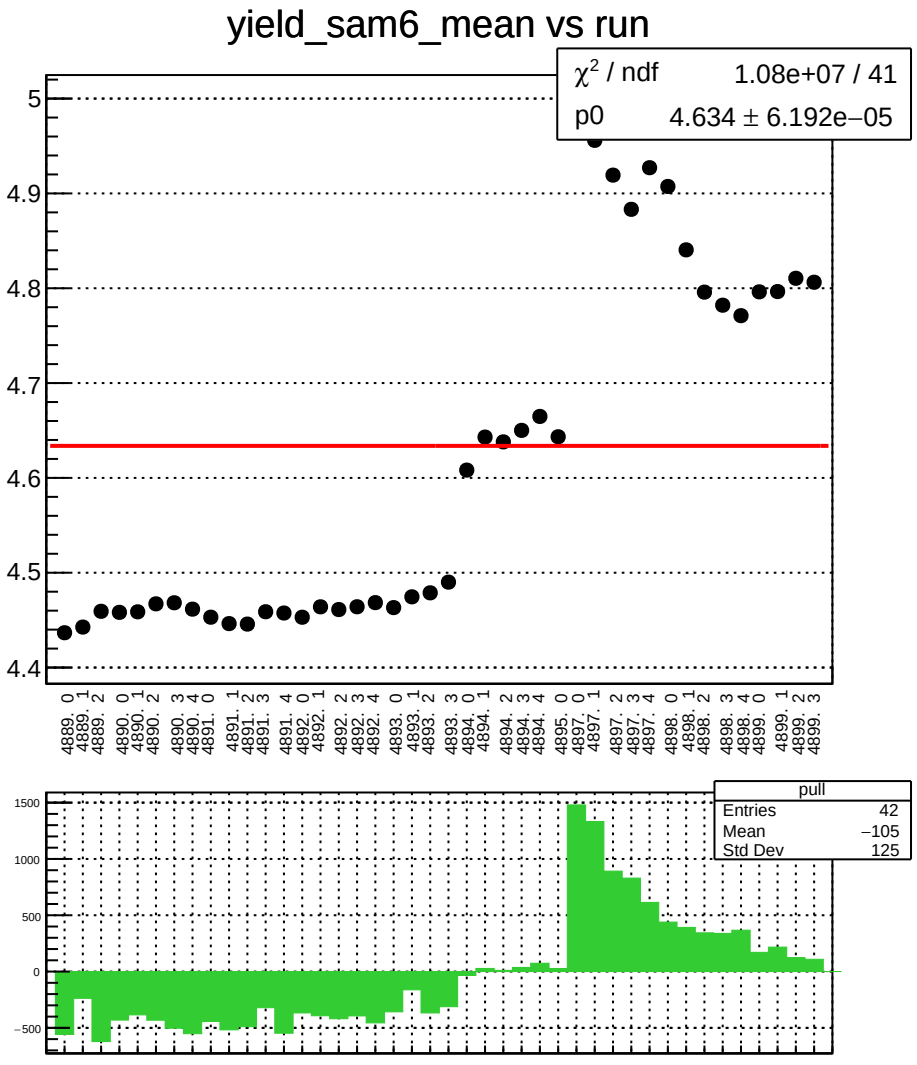

yield_sam4_mean vs run
χ² / ndf 1.647e+06 / 41
p0 17.77 ± 0.0003957
18.4
18.2
18
17.8
17.6
17.4
17.2
17
16.8
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −293.4
Std Dev 316
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

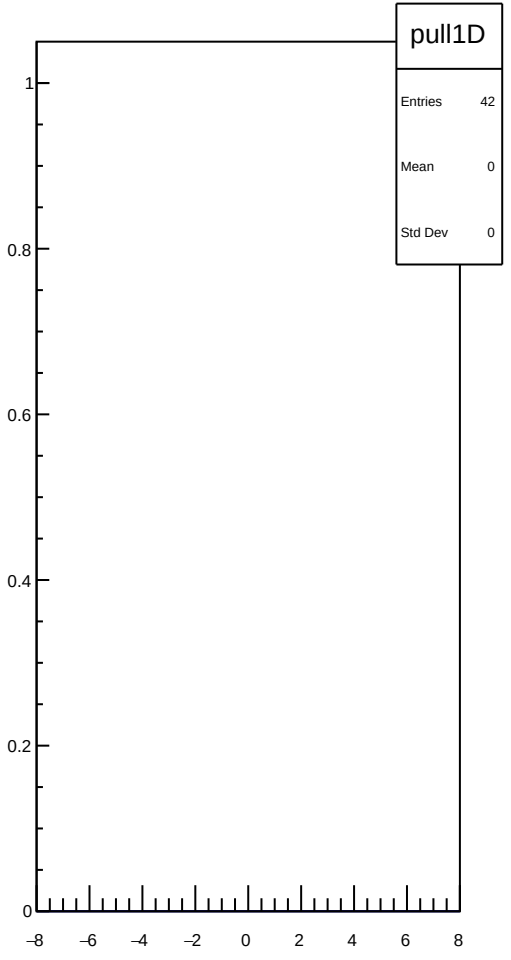

yield_sam4_rms vs run
χ² / ndf 6.062e+04 / 41
p0 0.2466 ± 0.0002798
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

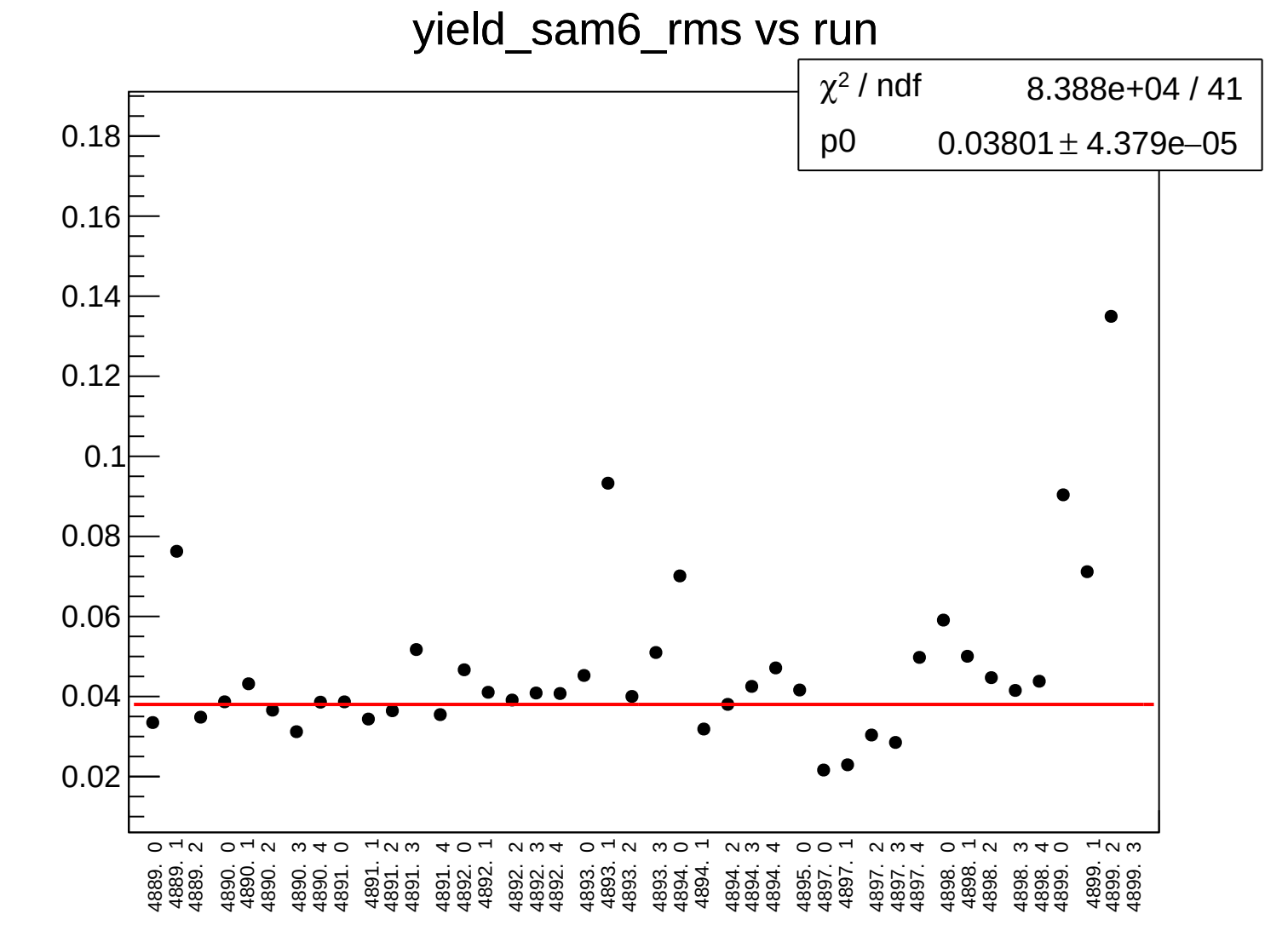

yield_sam5_mean vs run
χ² / ndf 6.032e+06 / 41
p0 3.325 ± 2.574e−05
3.45
3.4
3.35
3.3
3.25
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1270
Std Dev 1251
1000
800
600
400
200
0
−200
−400

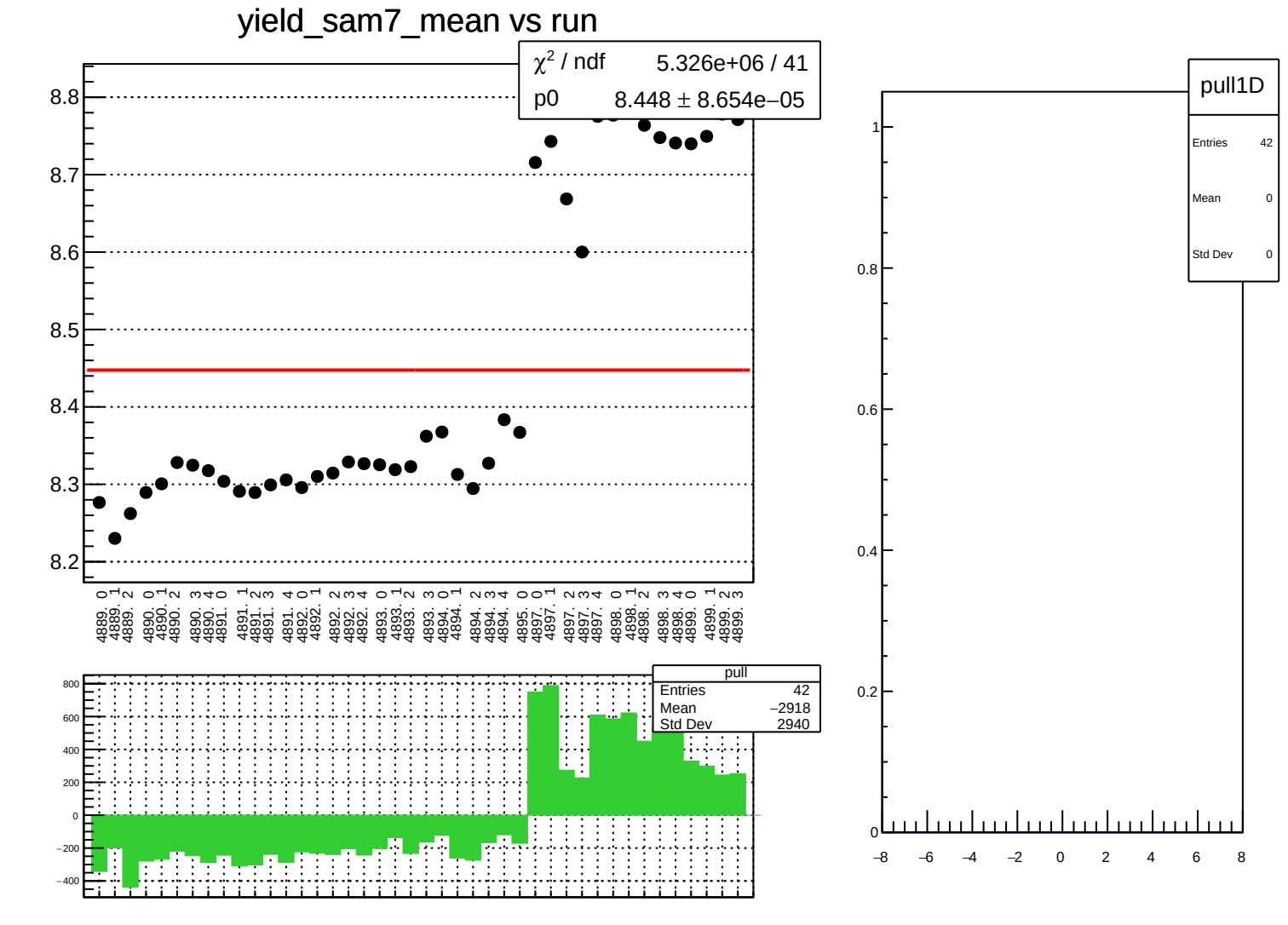

pull1D
Entries 42
Mean −7.185
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

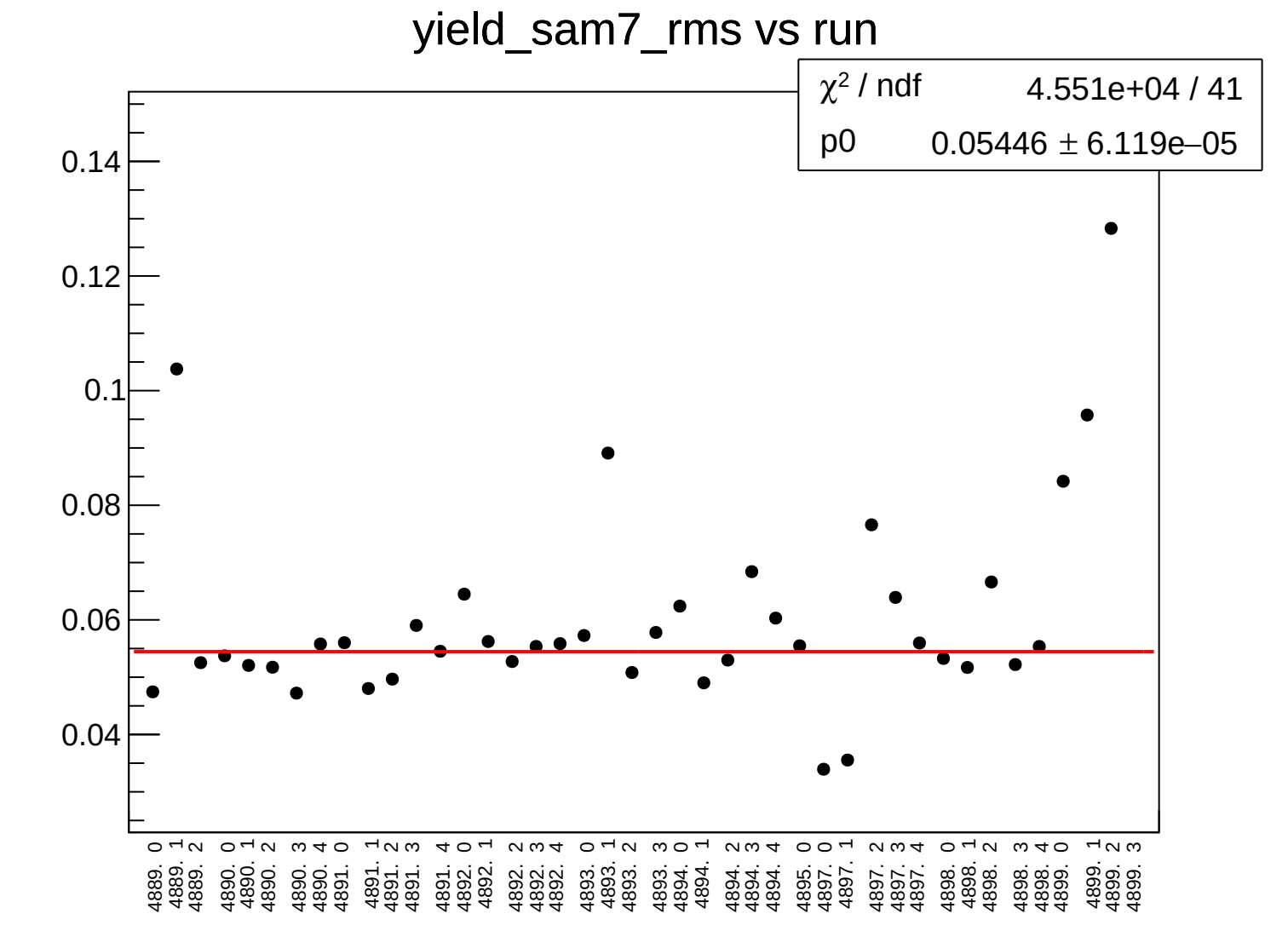

yield_sam5_rms vs run
χ² / ndf 1.15e+05 / 41
p0 0.01547 ± 1.82e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

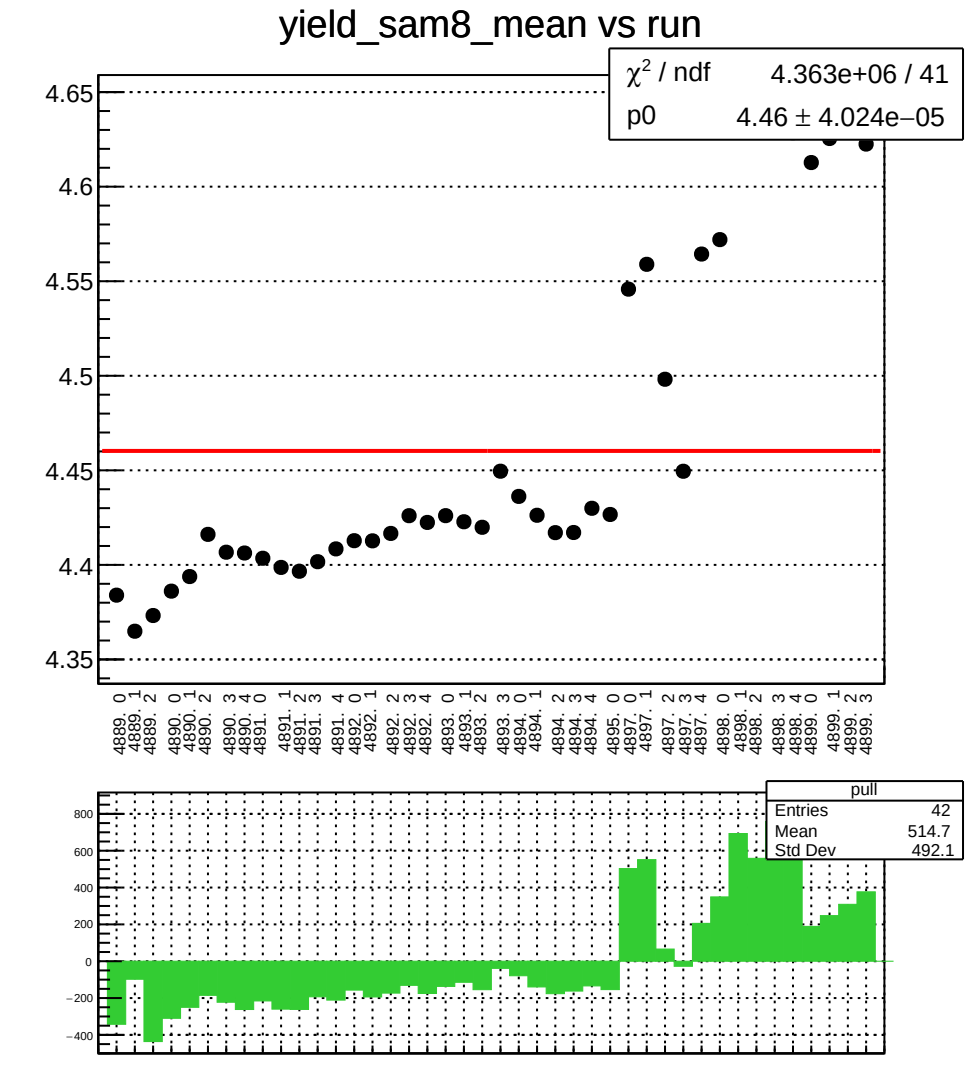

yield_sam6_mean vs run
χ² / ndf 1.08e+07 / 41
p0 4.634 ± 6.192e−05
pull
Entries 42
Mean −105
Std Dev 125

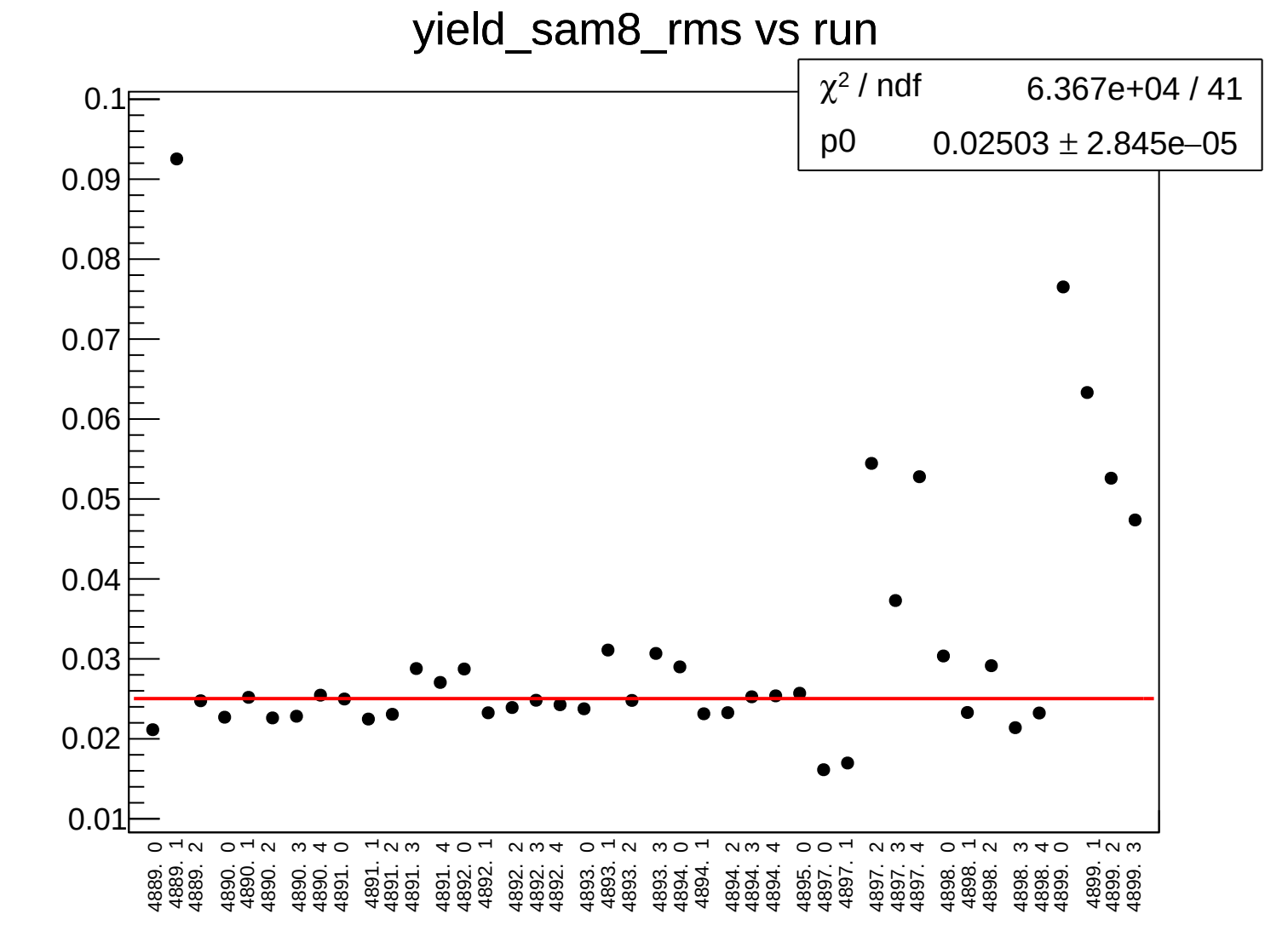

pull1D
Entries 42
Mean 0
Std Dev 0

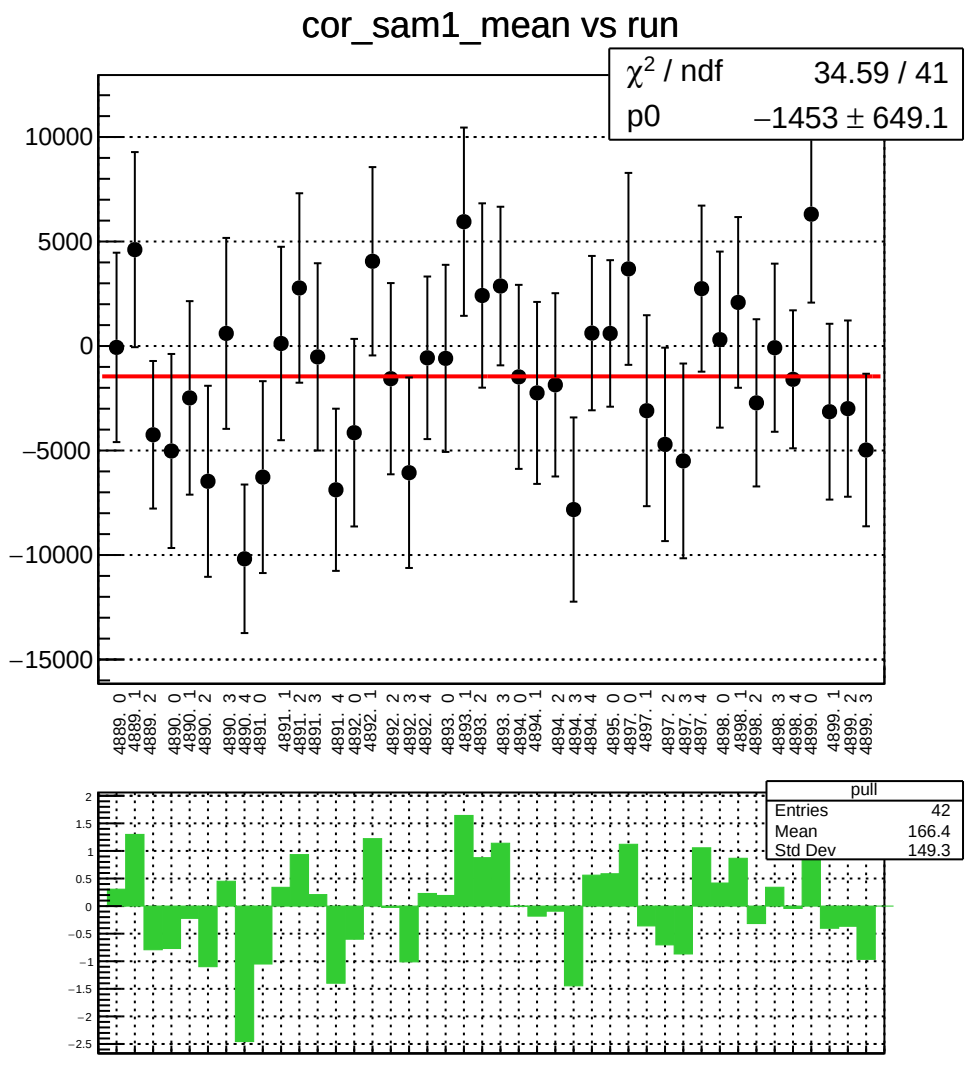

yield_sam6_rms vs run
χ² / ndf 8.388e+04 / 41
p0 0.03801 ± 4.379e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

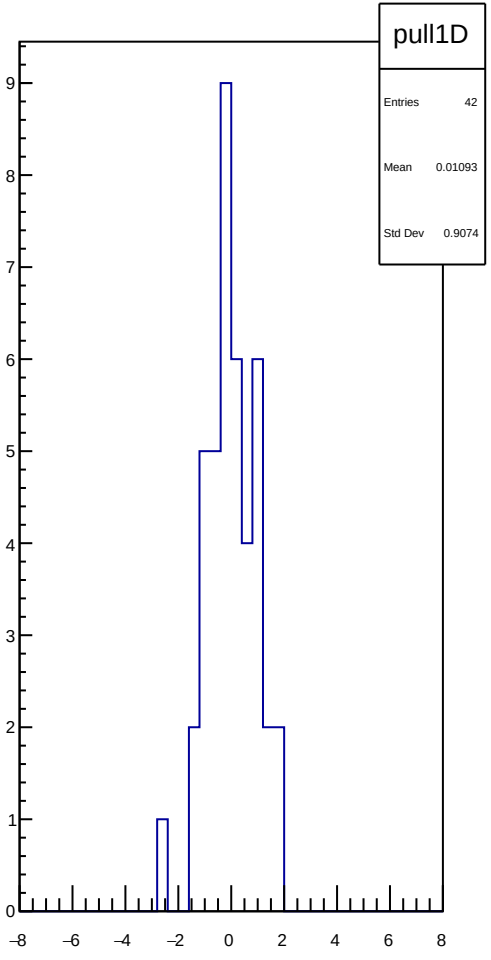

yield_sam7_mean vs run
χ² / ndf 5.326e+06 / 41
p0 8.448 ± 8.654e−05
8.8
8.7
8.6
8.5
8.4
8.3
8.2
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −2918
Std Dev 2940
800
600
400
200
0
−200
−400
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

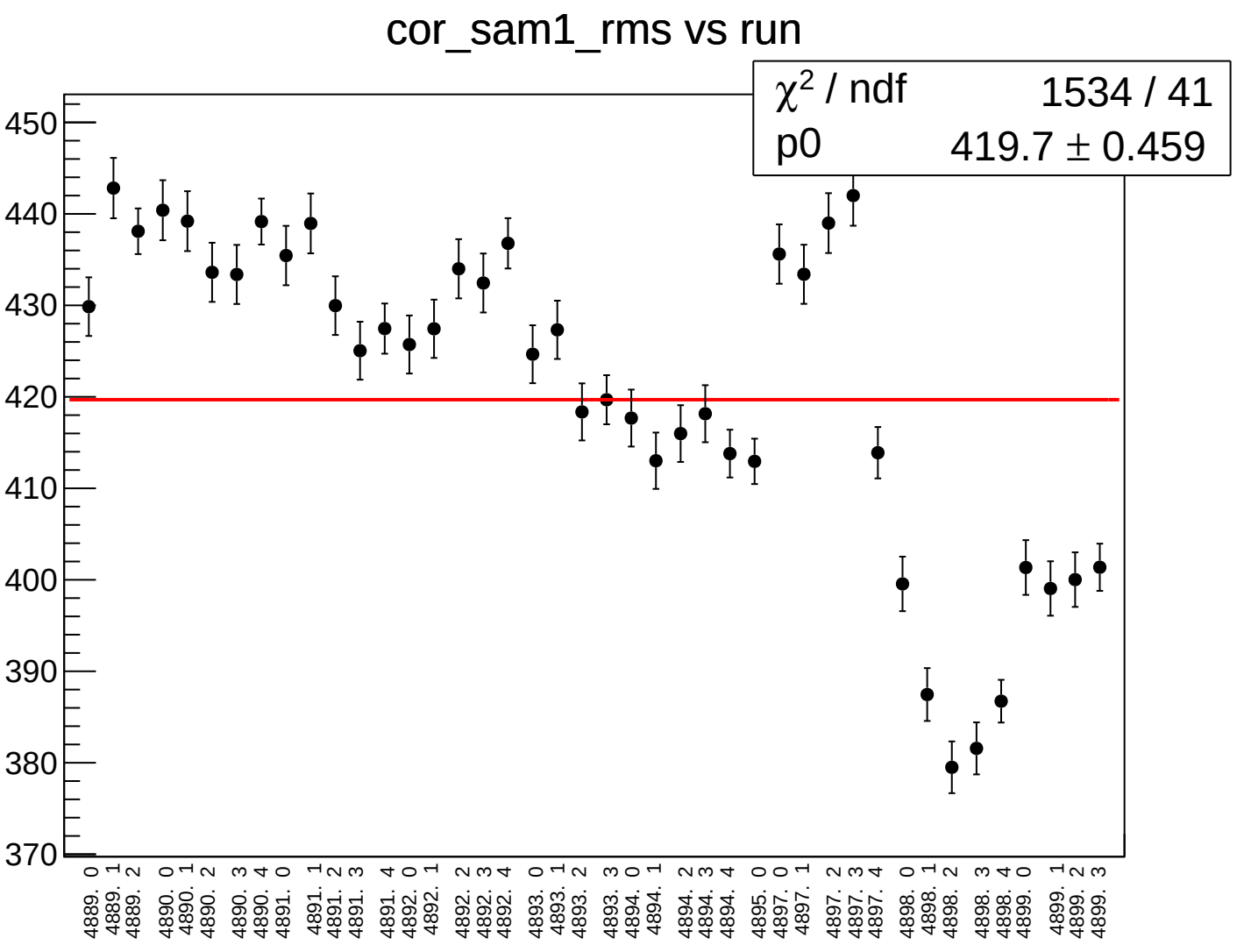

yield_sam7_rms vs run
χ² / ndf 4.551e+04 / 41
p0 0.05446 ± 6.119e–05
0.14
0.12
0.1
0.08
0.06
0.04
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

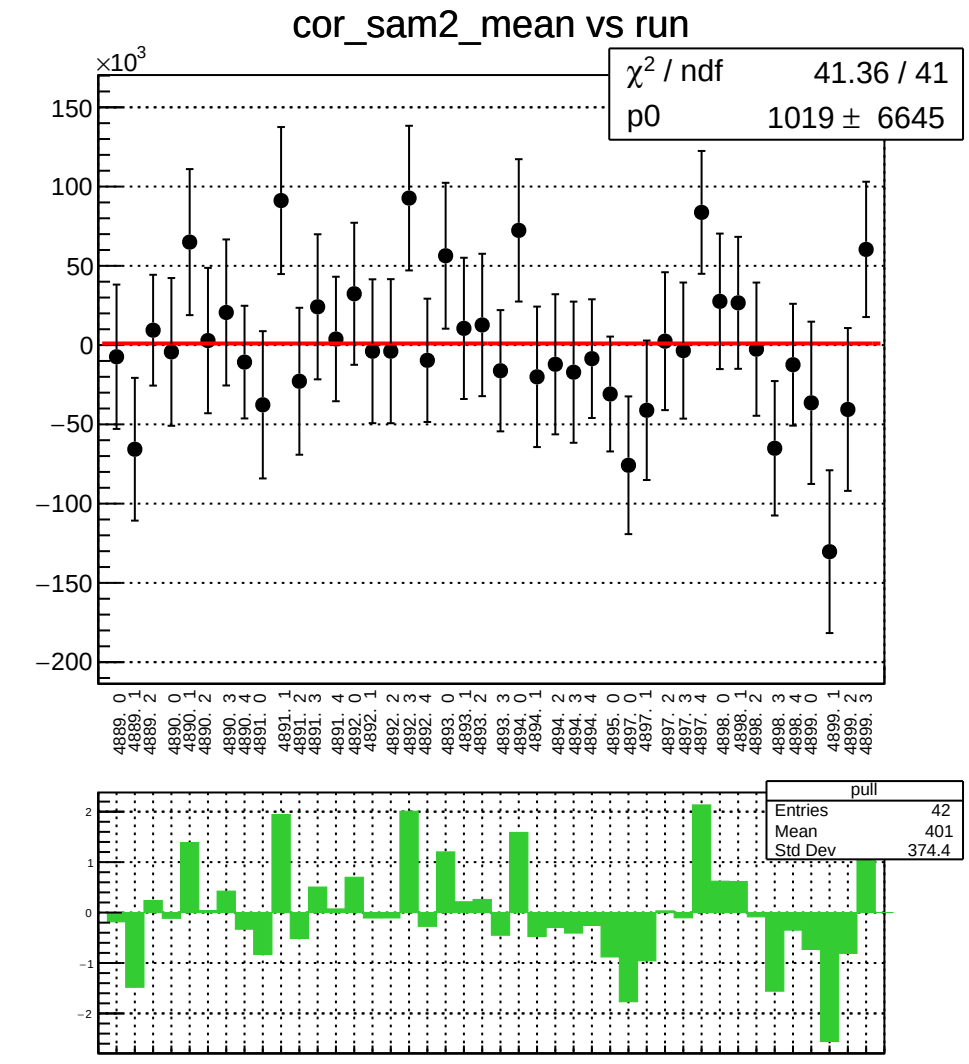

yield_sam8_mean vs run
χ² / ndf 4.363e+06 / 41
p0 4.46 ± 4.024e−05
4.65
4.6
4.55
4.5
4.45
4.4
4.35
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 514.7
Std Dev 492.1
800
600
400
200
0
−200
−400
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

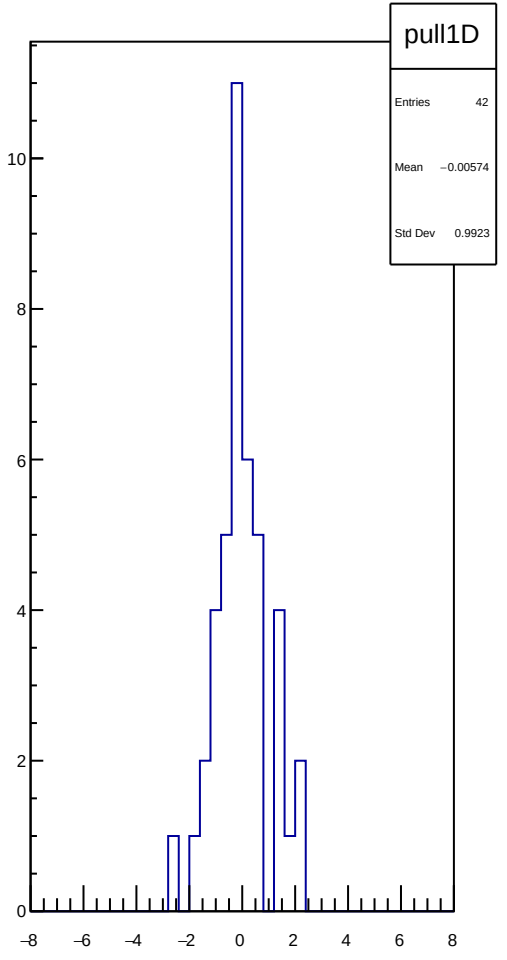

yield_sam8_rms vs run
χ² / ndf 6.367e+04 / 41
p0 0.02503 ± 2.845e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

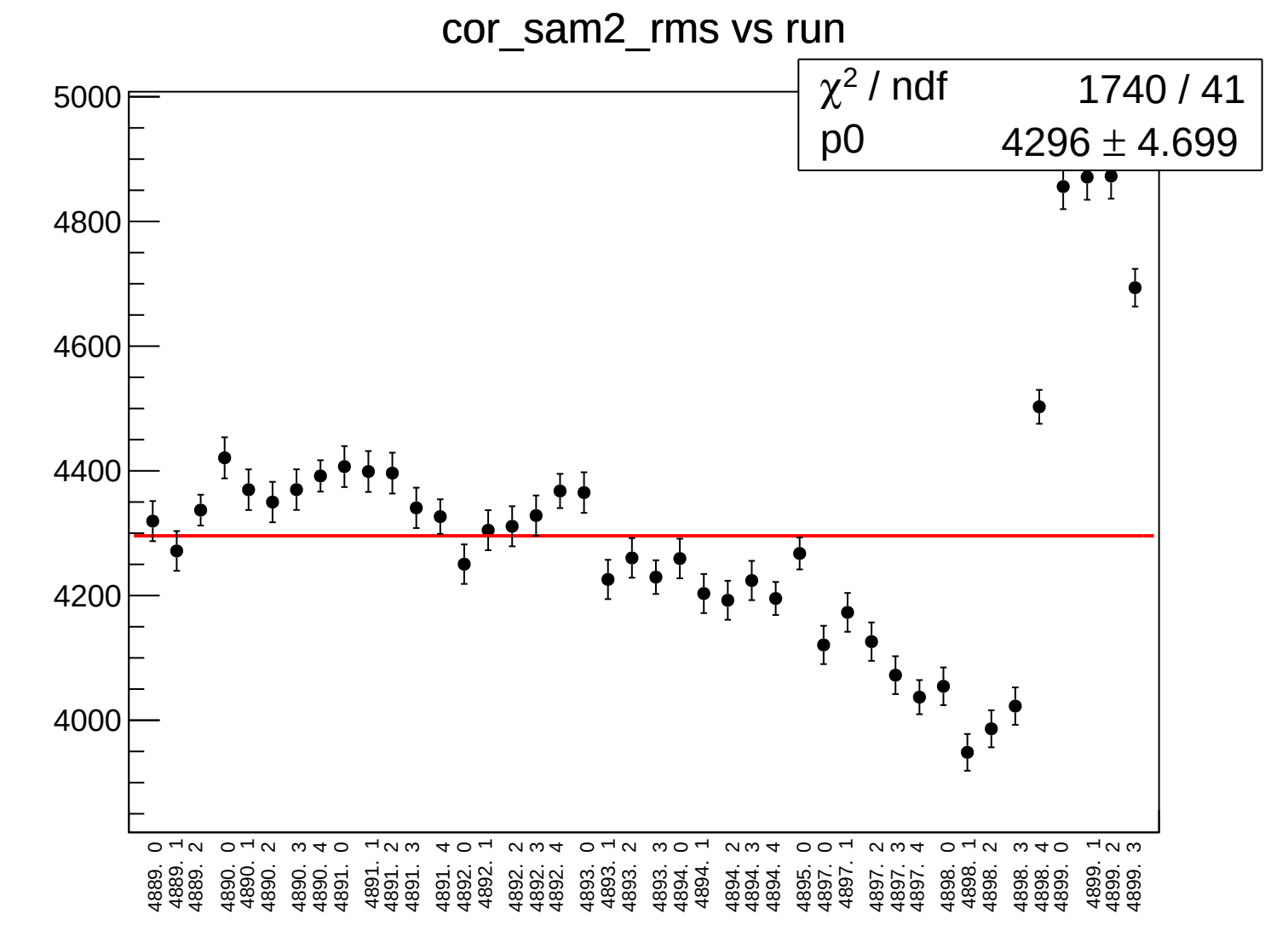

cor_sam1_mean vs run
χ² / ndf 34.59 / 41
p0 −1453 ± 649.1
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 166.4
Std Dev 149.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

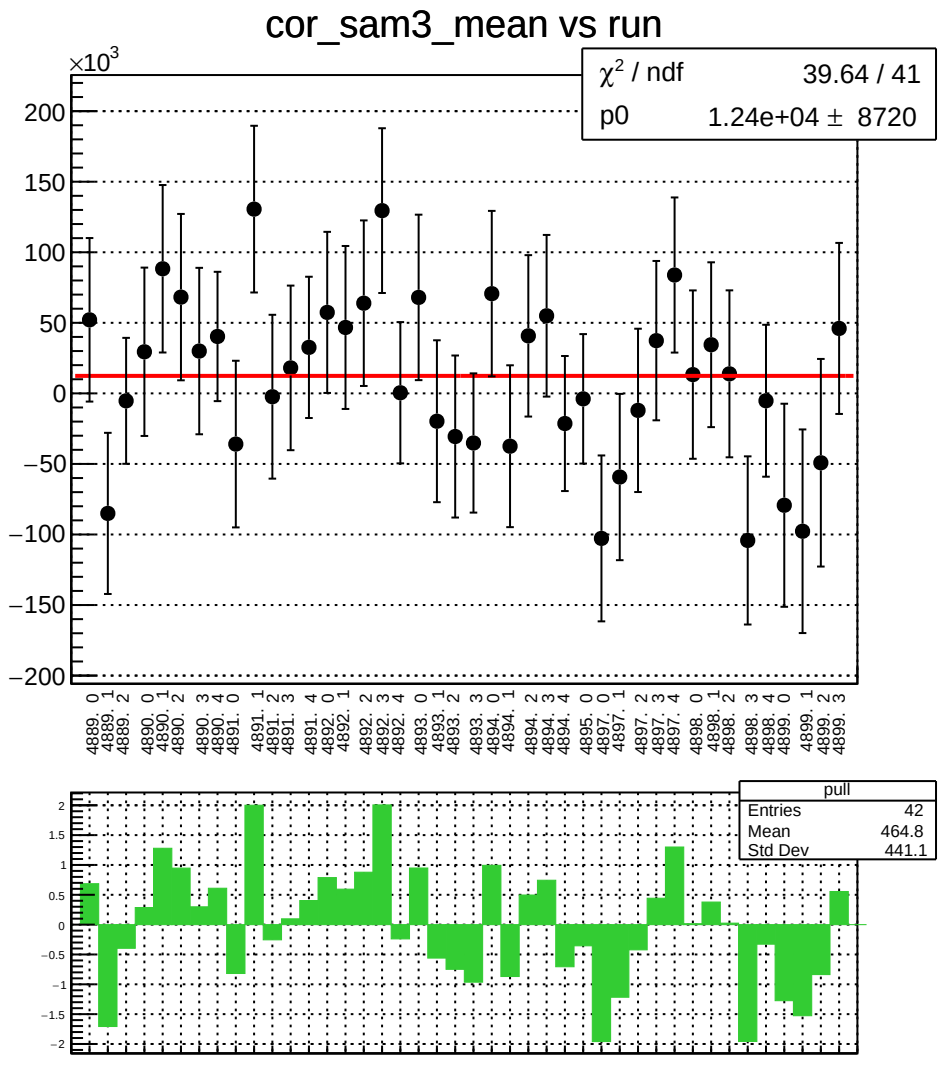

pull1D
Entries 42
Mean 0.01093
Std Dev 0.9074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

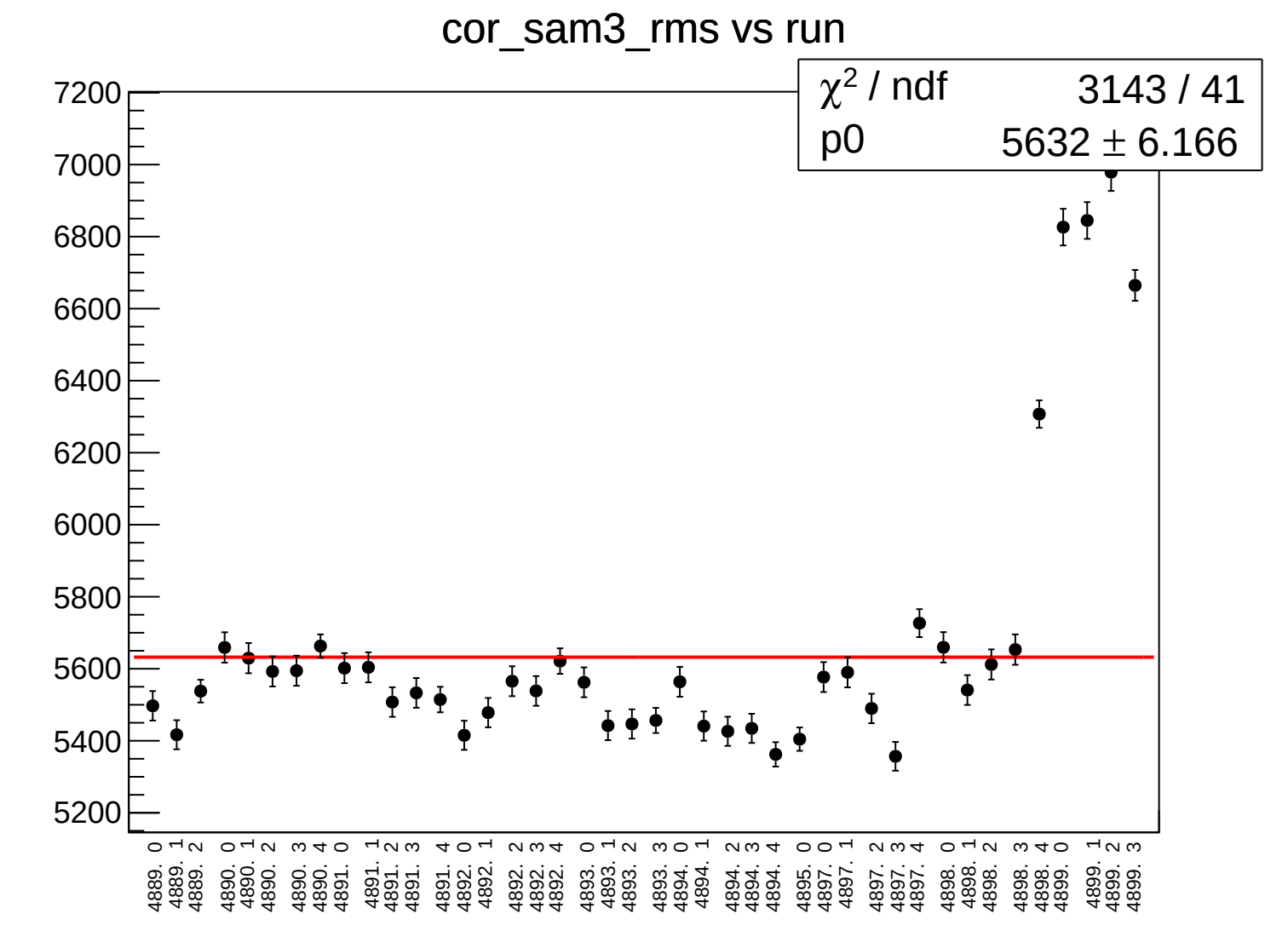

cor_sam1_rms vs run
χ² / ndf 1534 / 41
p0 419.7 ± 0.459
450
440
430
420
410
400
390
380
370
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

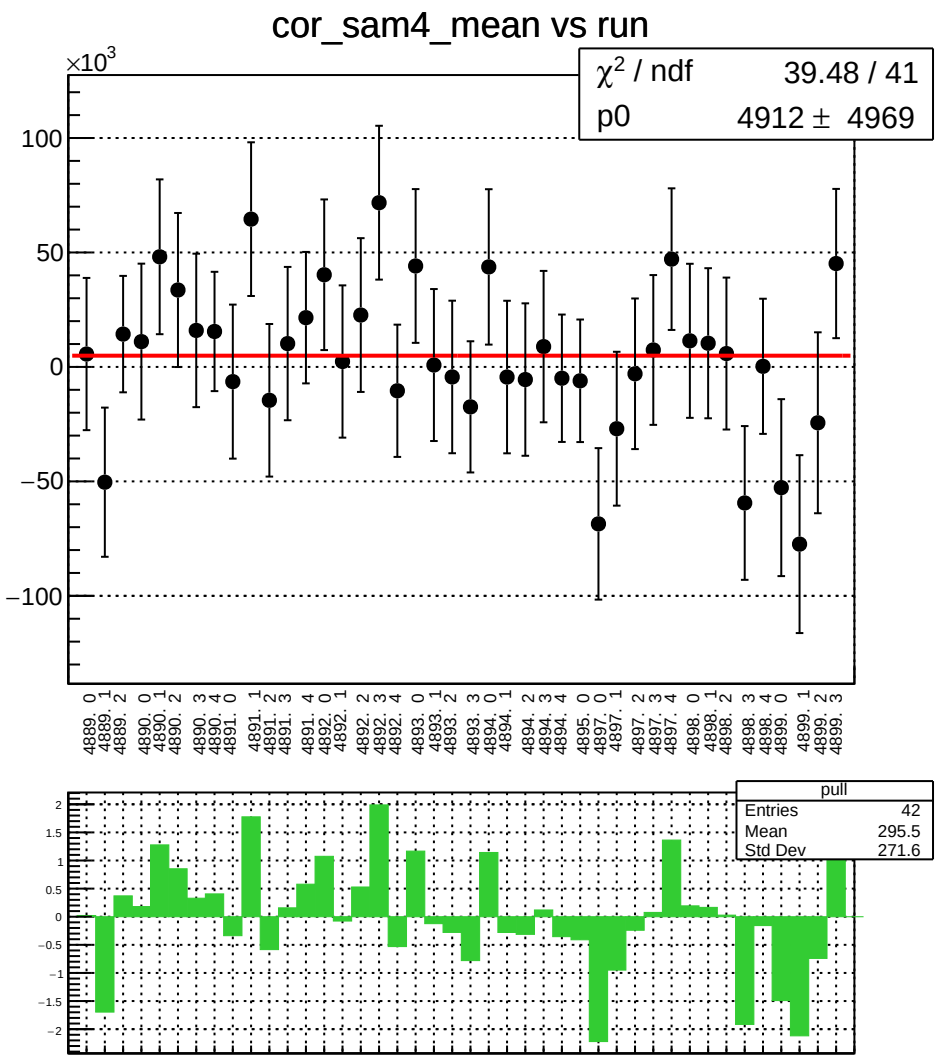

cor_sam2_mean vs run
×10^3
χ^2 / ndf 41.36 / 41
p0 1019 ± 6645
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 401
Std Dev 374.4
2
1
0
−1
−2

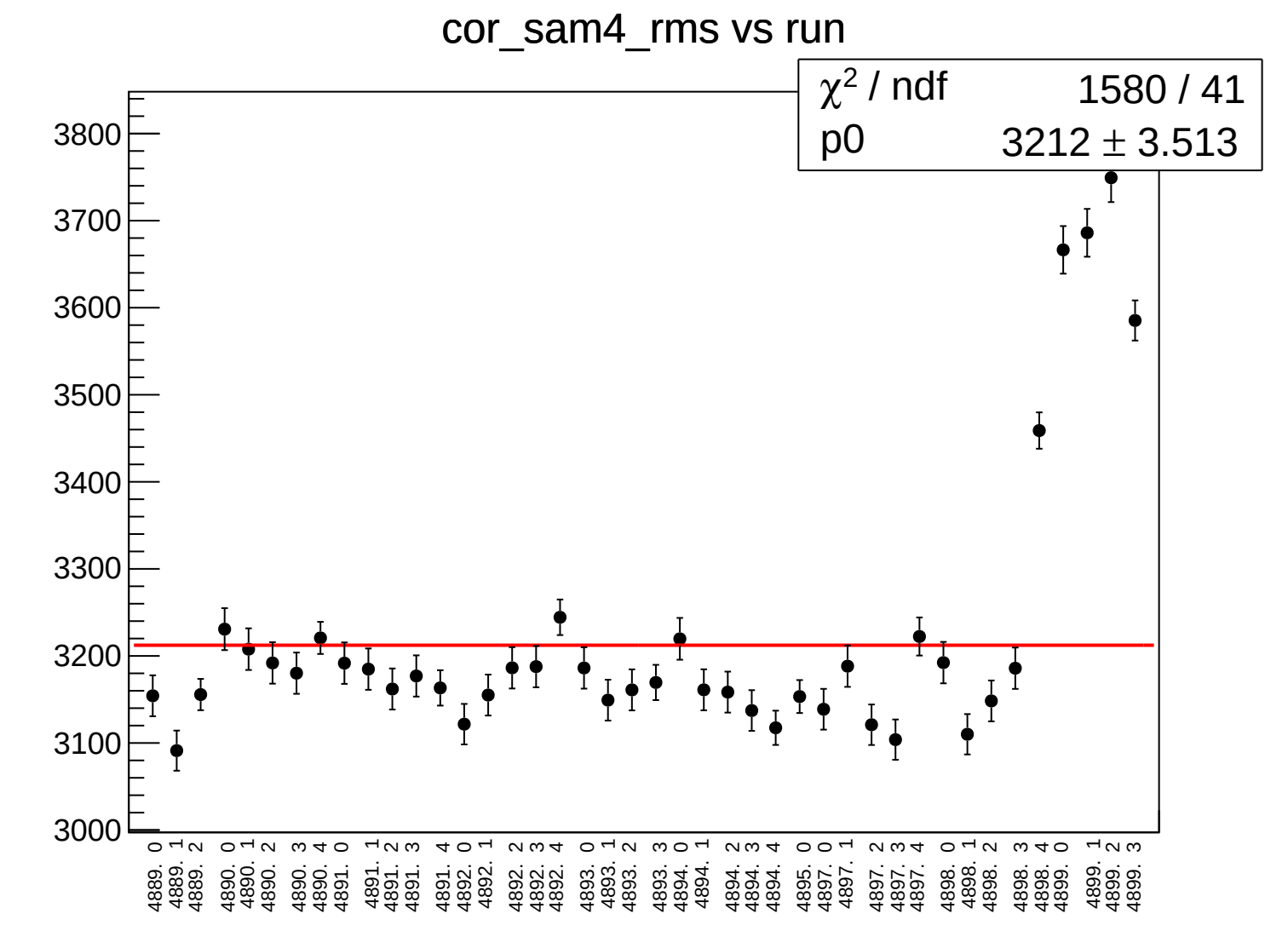

pull1D
Entries 42
Mean −0.00574
Std Dev 0.9923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

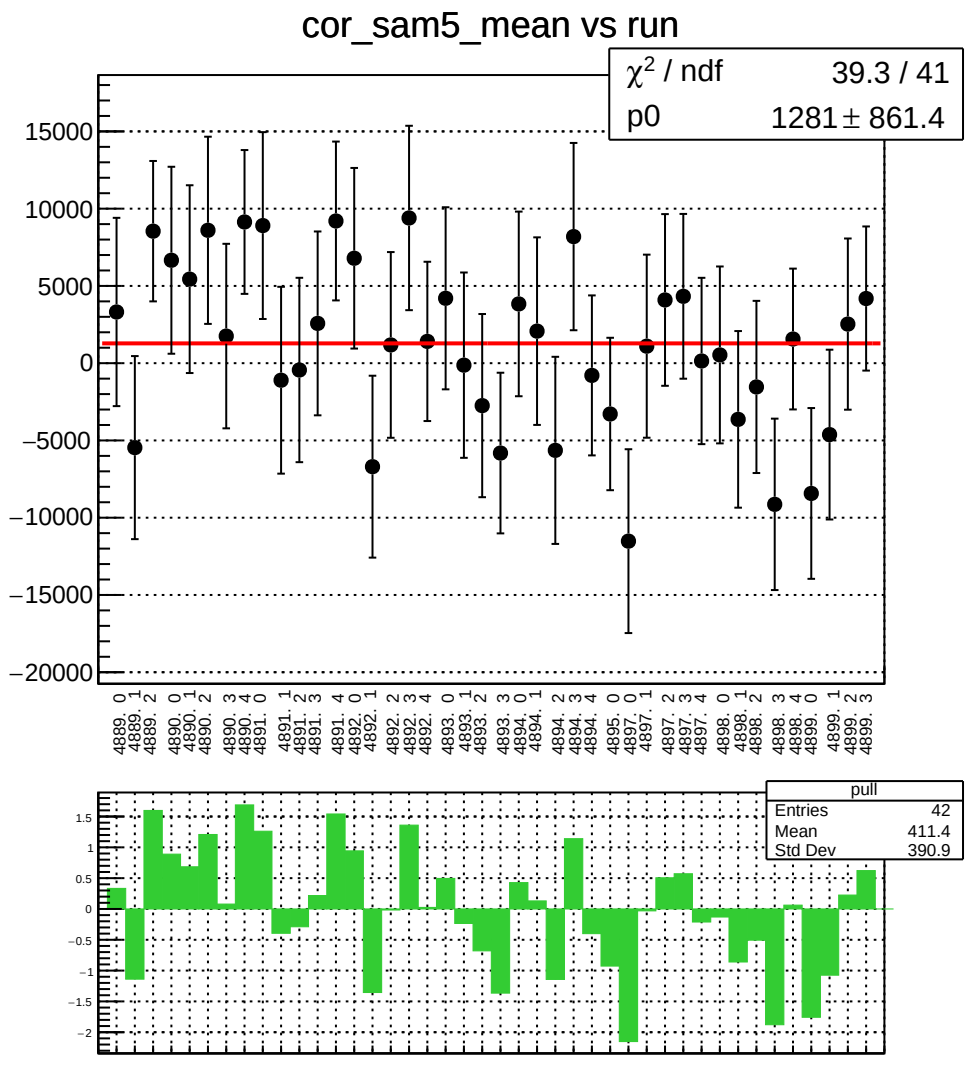

cor_sam2_rms vs run
χ² / ndf 1740 / 41
p0 4296 ± 4.699
5000
4800
4600
4400
4200
4000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

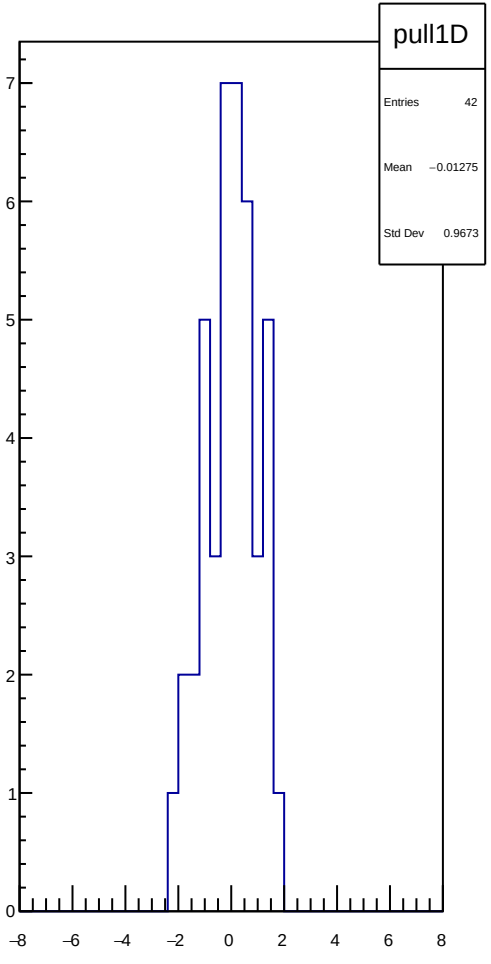

cor_sam3_mean vs run
×10^3
χ² / ndf 39.64 / 41
p0 1.24e+04 ± 8720
200
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 464.8
Std Dev 441.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.008716
Std Dev 0.9715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

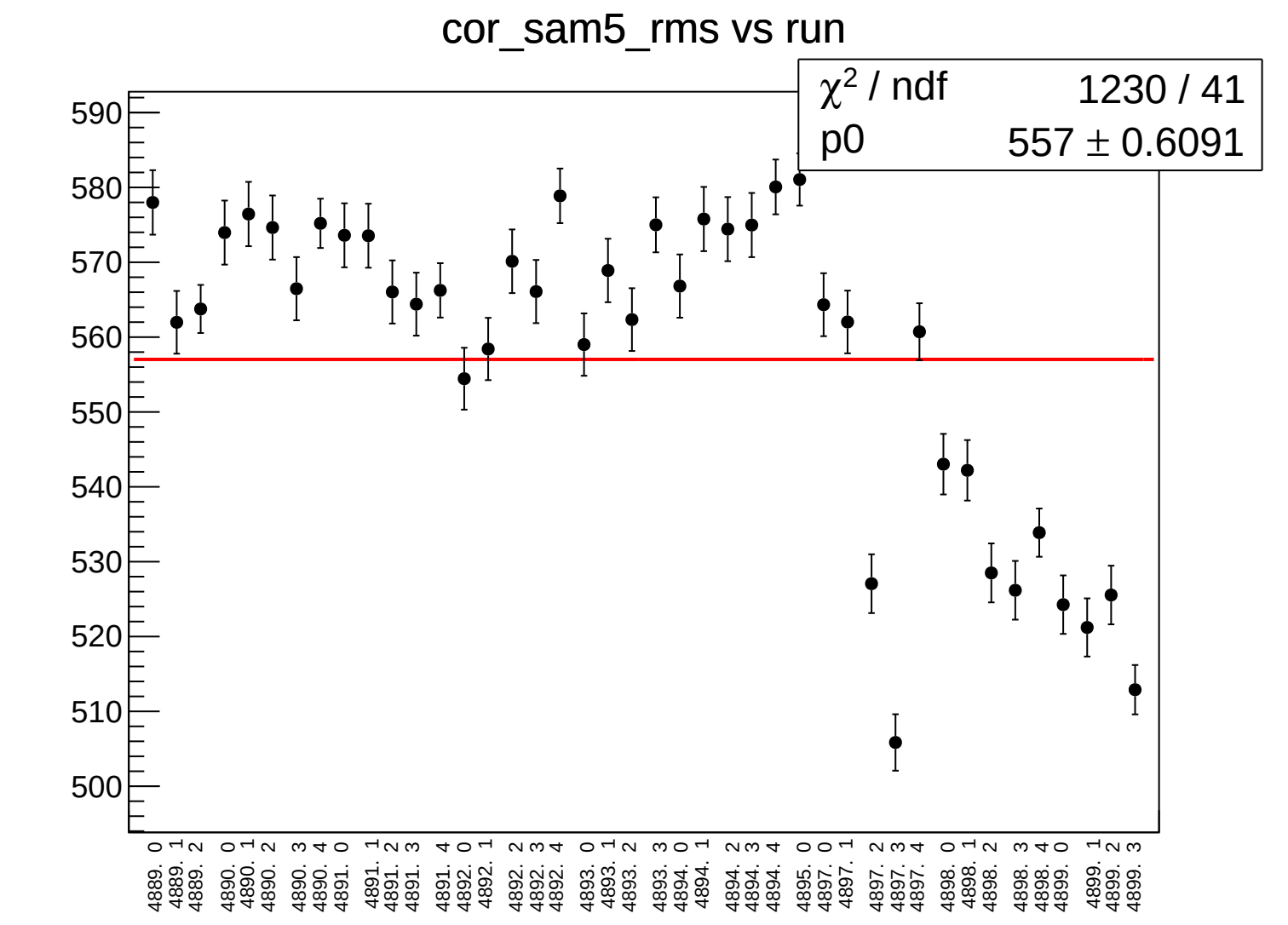

cor_sam3_rms vs run
χ² / ndf 3143 / 41
p0 5632 ± 6.166
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

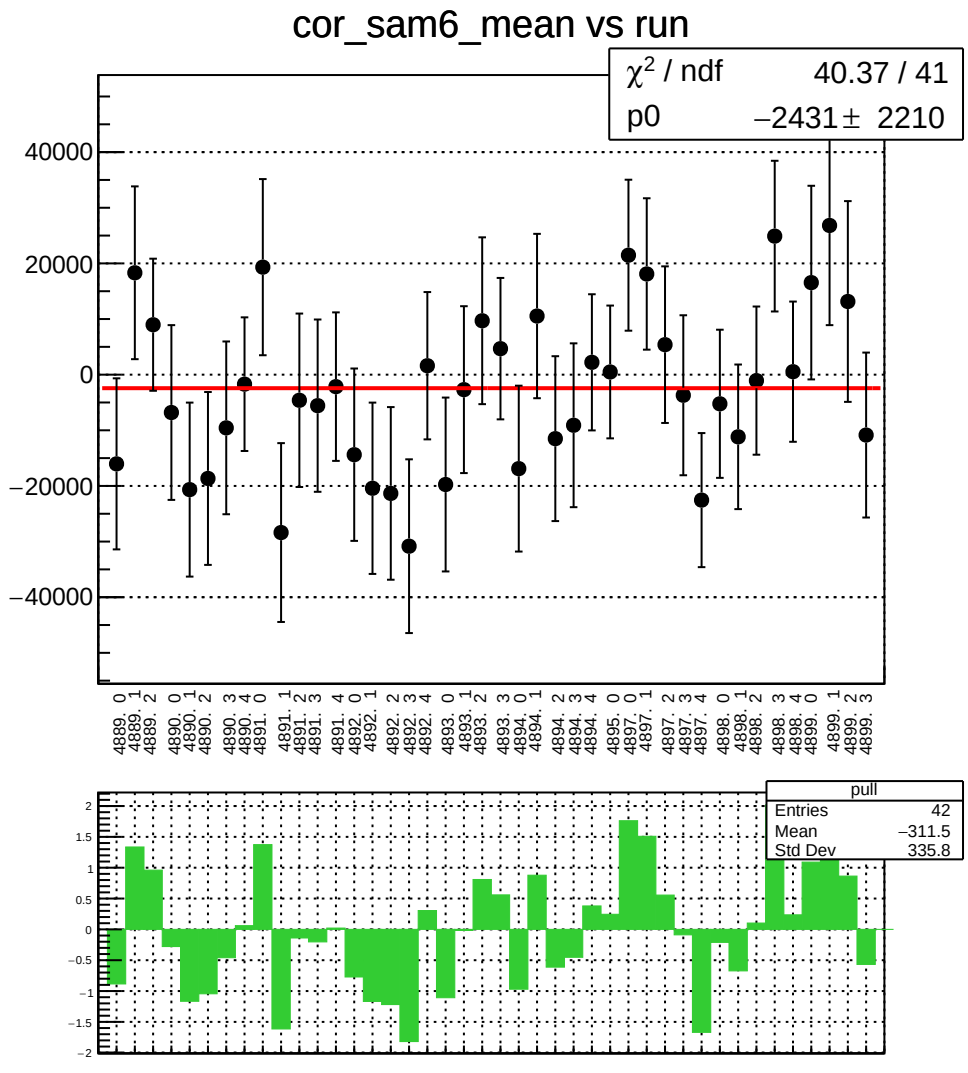

cor_sam4_mean vs run
×10^3
χ^2 / ndf 39.48 / 41
p0 4912 ± 4969
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 295.5
Std Dev 271.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.01347
Std Dev 0.9695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

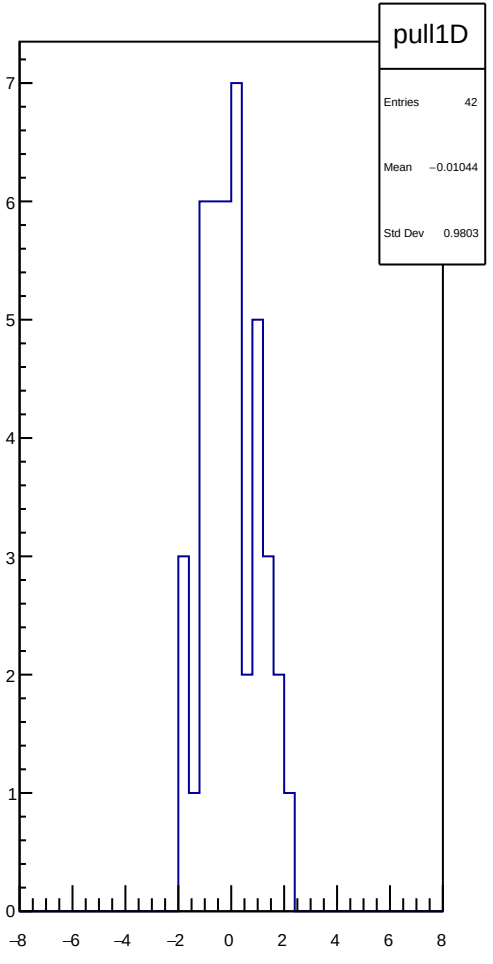

cor_sam4_rms vs run
χ² / ndf 1580 / 41
p0 3212 ± 3.513
3800
3700
3600
3500
3400
3300
3200
3100
3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

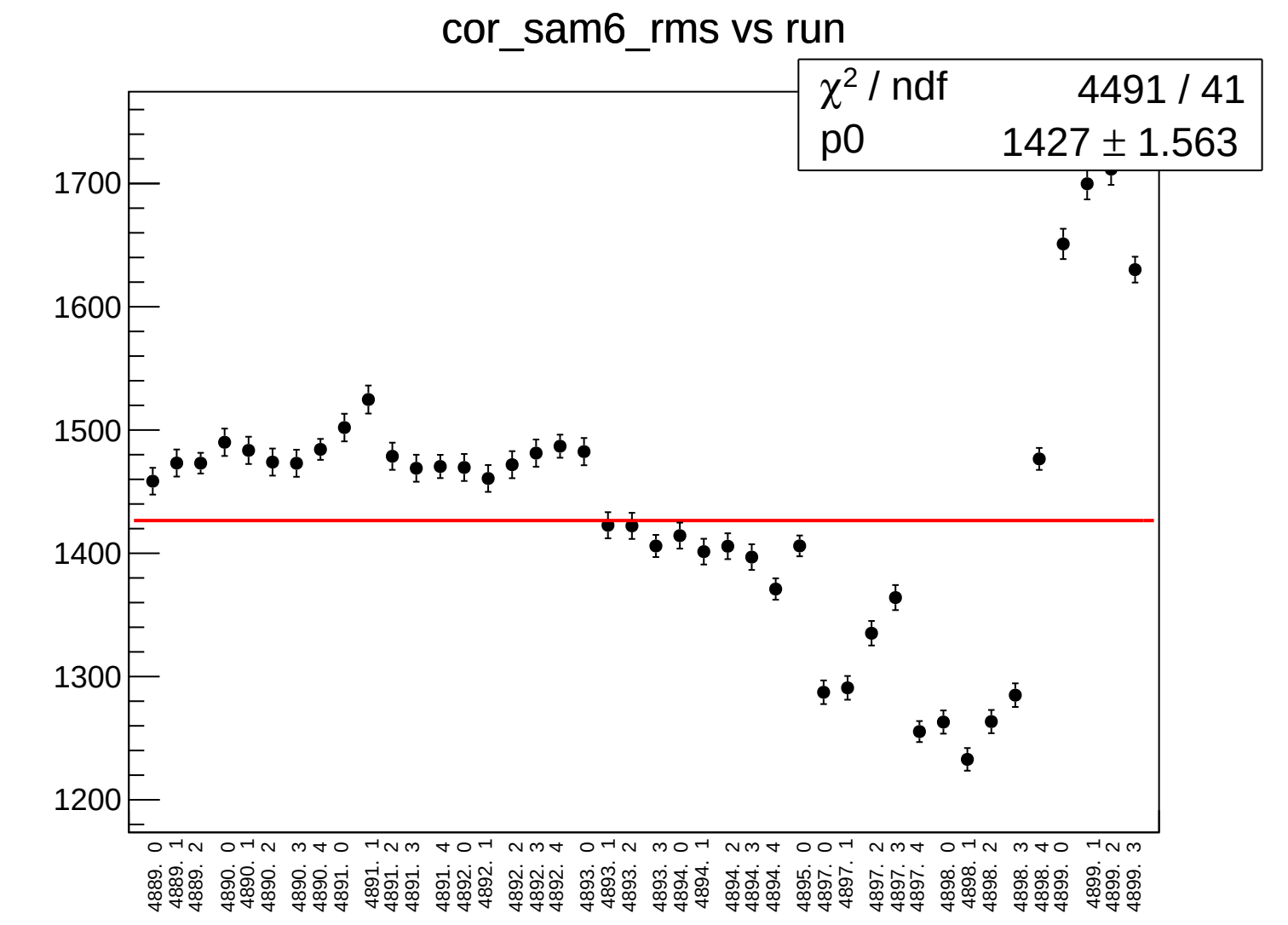

cor_sam5_mean vs run
χ² / ndf 39.3 / 41
p0 1281 ± 861.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 411.4
Std Dev 390.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

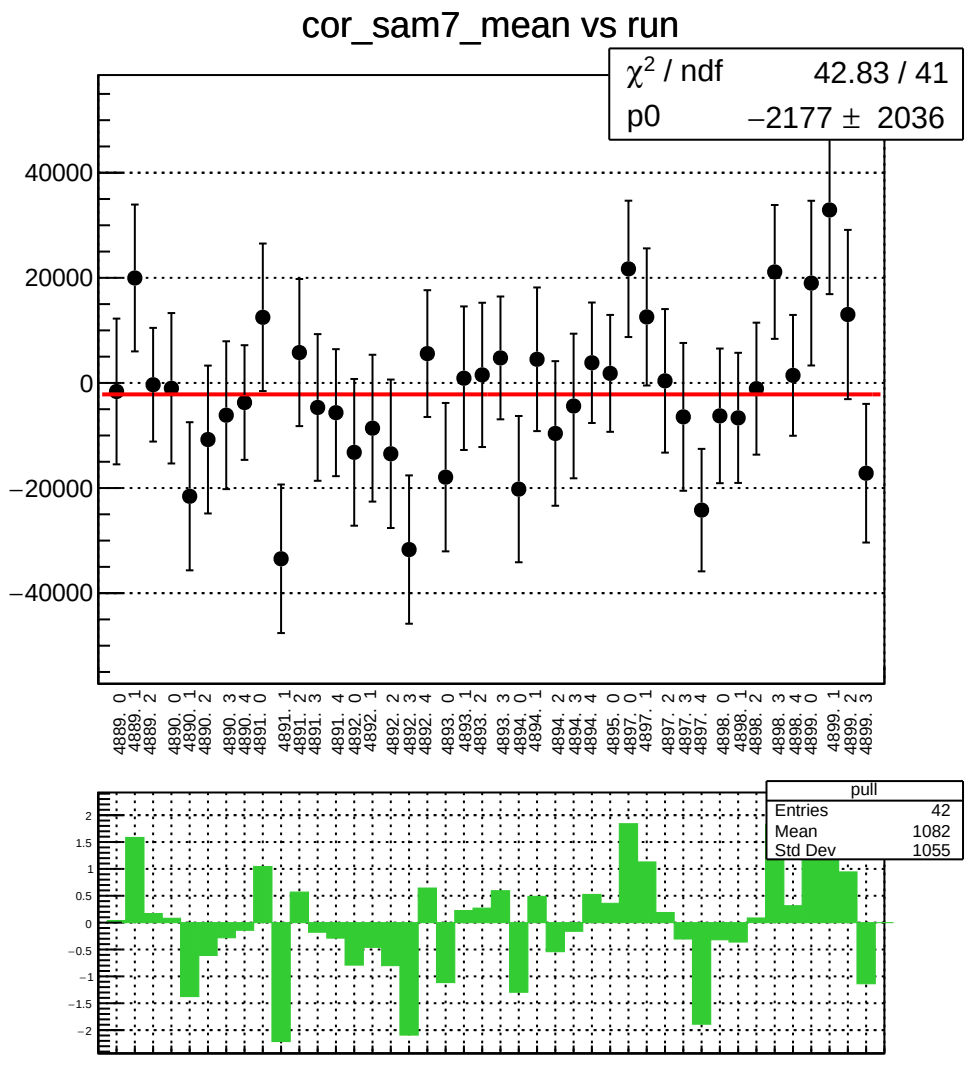

pull1D
Entries 42
Mean −0.01275
Std Dev 0.9673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

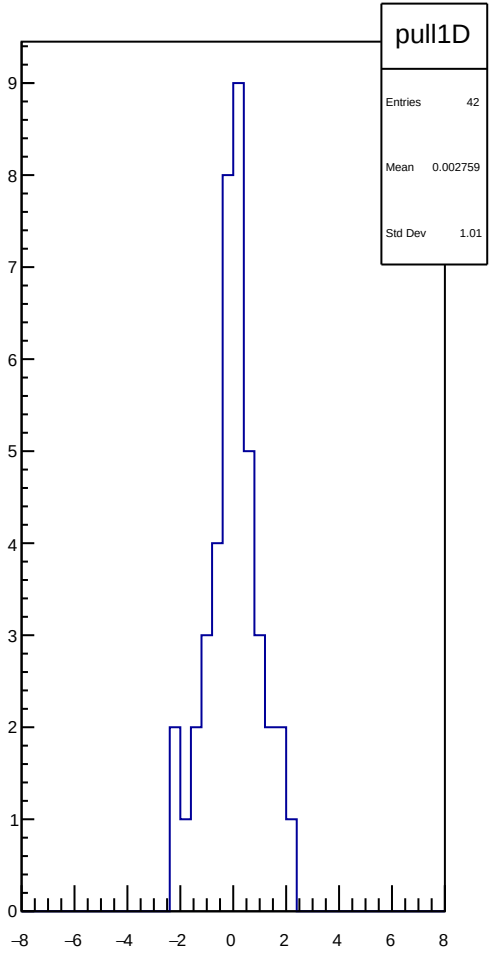

cor_sam5_rms vs run
χ² / ndf 1230 / 41
p0 557 ± 0.6091
590
580
570
560
550
540
530
520
510
500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

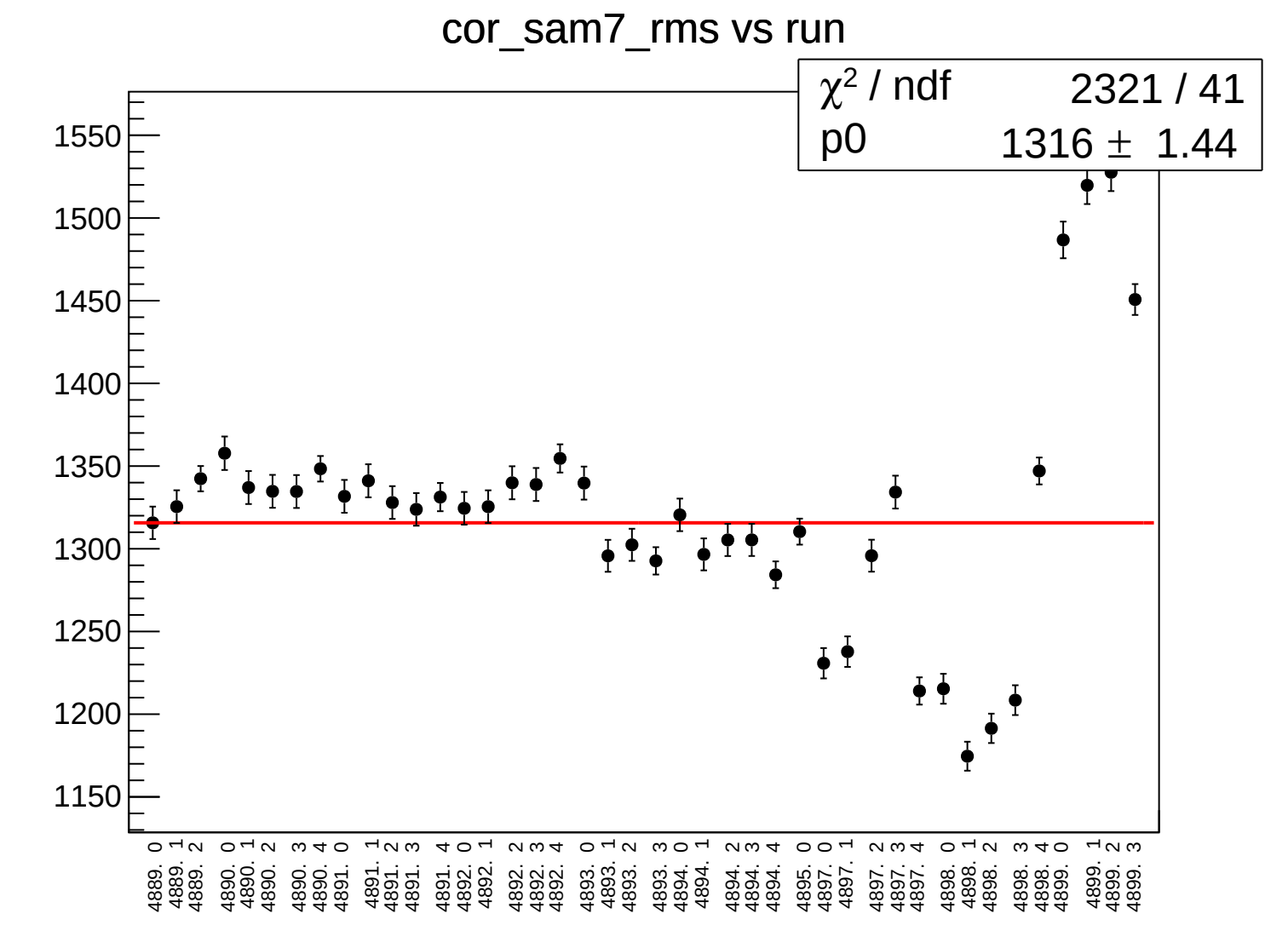

cor_sam6_mean vs run
χ² / ndf 40.37 / 41
p0 −2431 ± 2210
40000
20000
0
−20000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −311.5
Std Dev 335.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

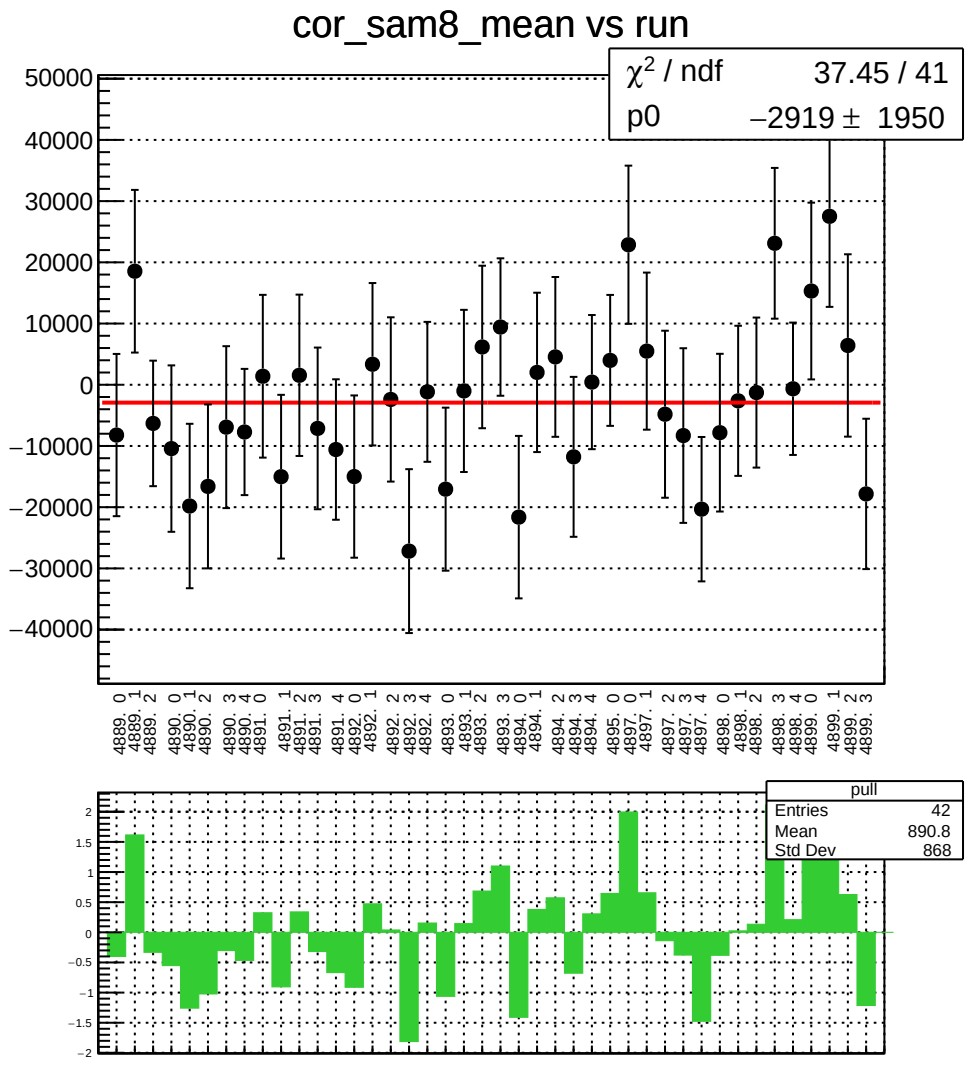

pull1D
Entries 42
Mean −0.01044
Std Dev 0.9803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

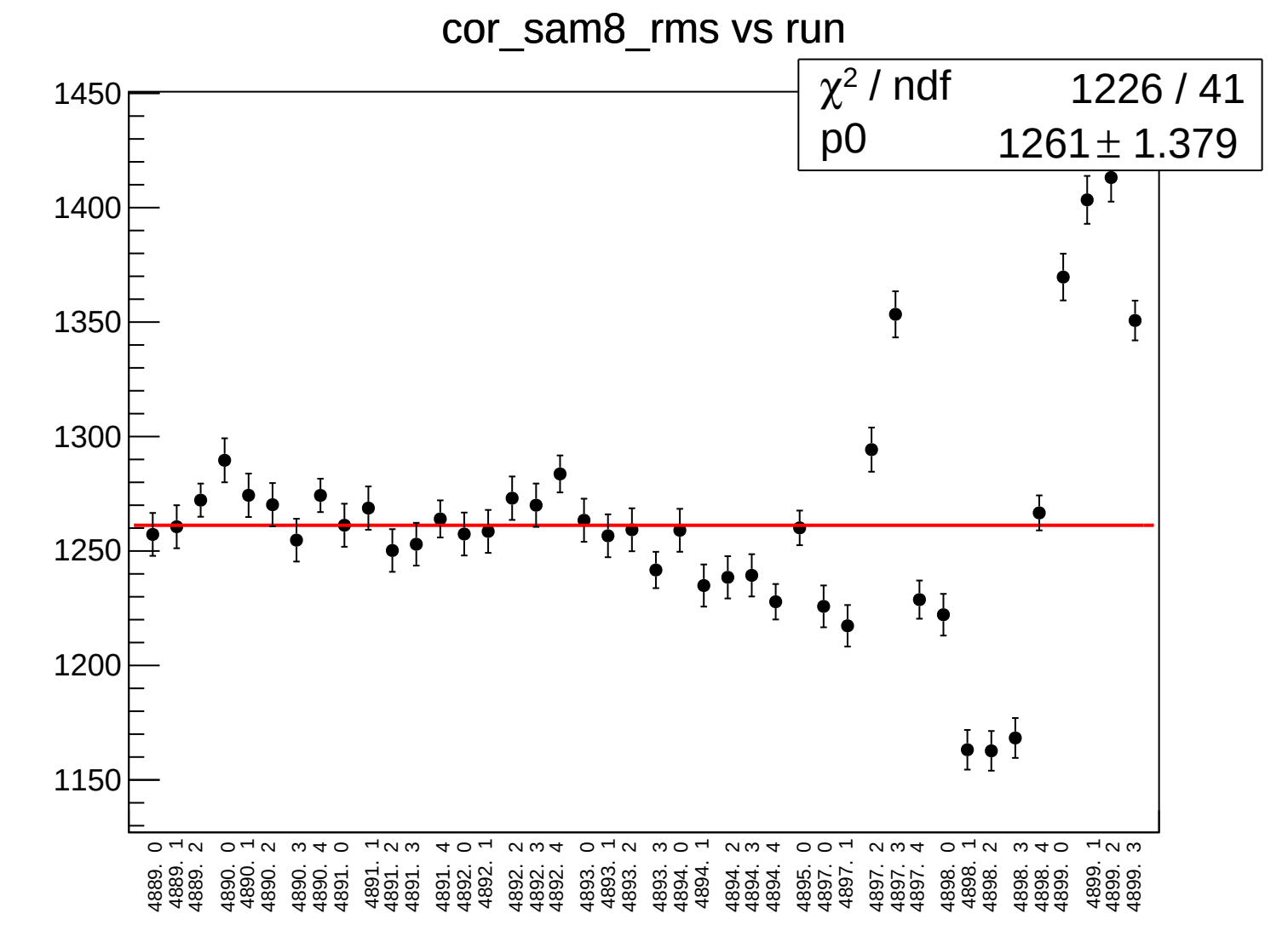

cor_sam6_rms vs run
χ² / ndf 4491 / 41
p0 1427 ± 1.563
1700
1600
1500
1400
1300
1200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

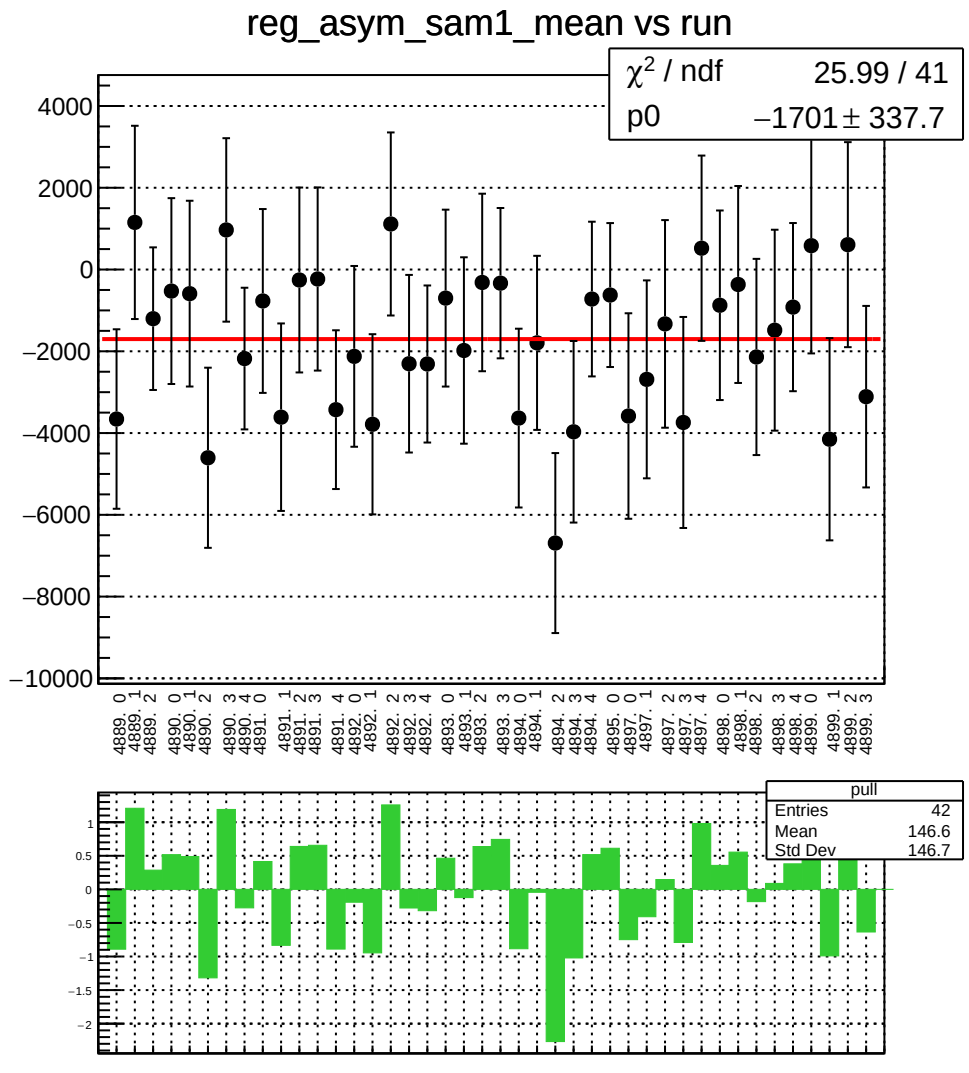

cor_sam7_mean vs run
χ² / ndf 42.83 / 41
p0 −2177 ± 2036
40000
20000
0
−20000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1082
Std Dev 1055
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

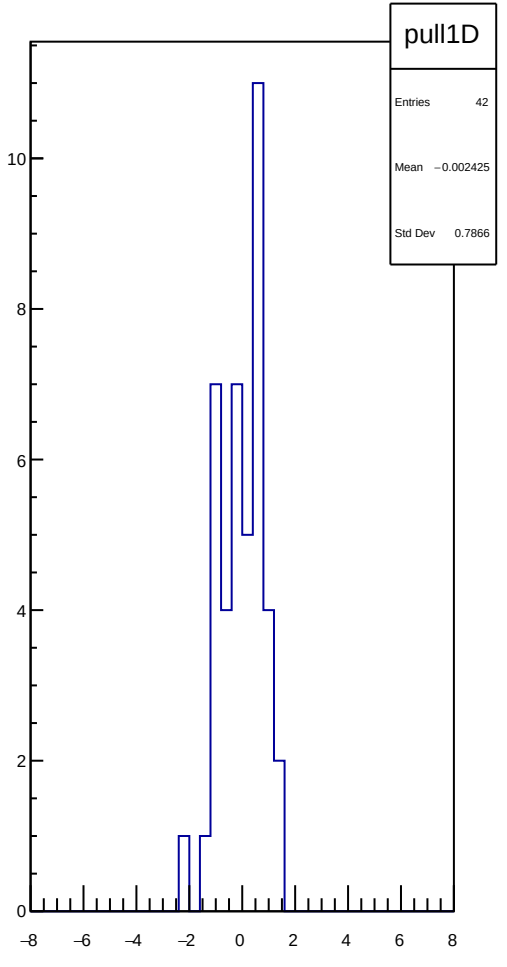

pull1D
Entries 42
Mean 0.002759
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

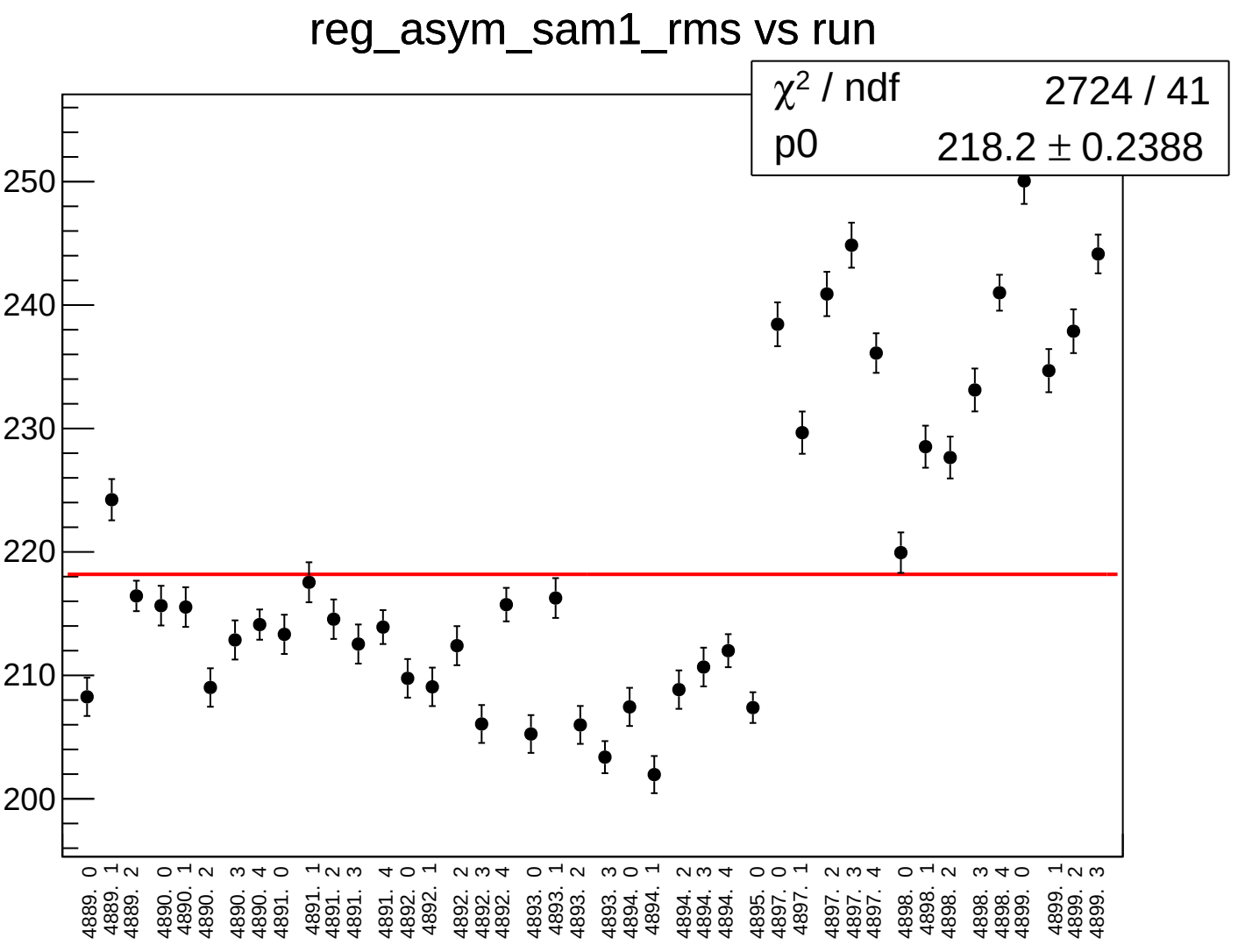

cor_sam7_rms vs run
χ² / ndf 2321 / 41
p0 1316 ± 1.44
1550
1500
1450
1400
1350
1300
1250
1200
1150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

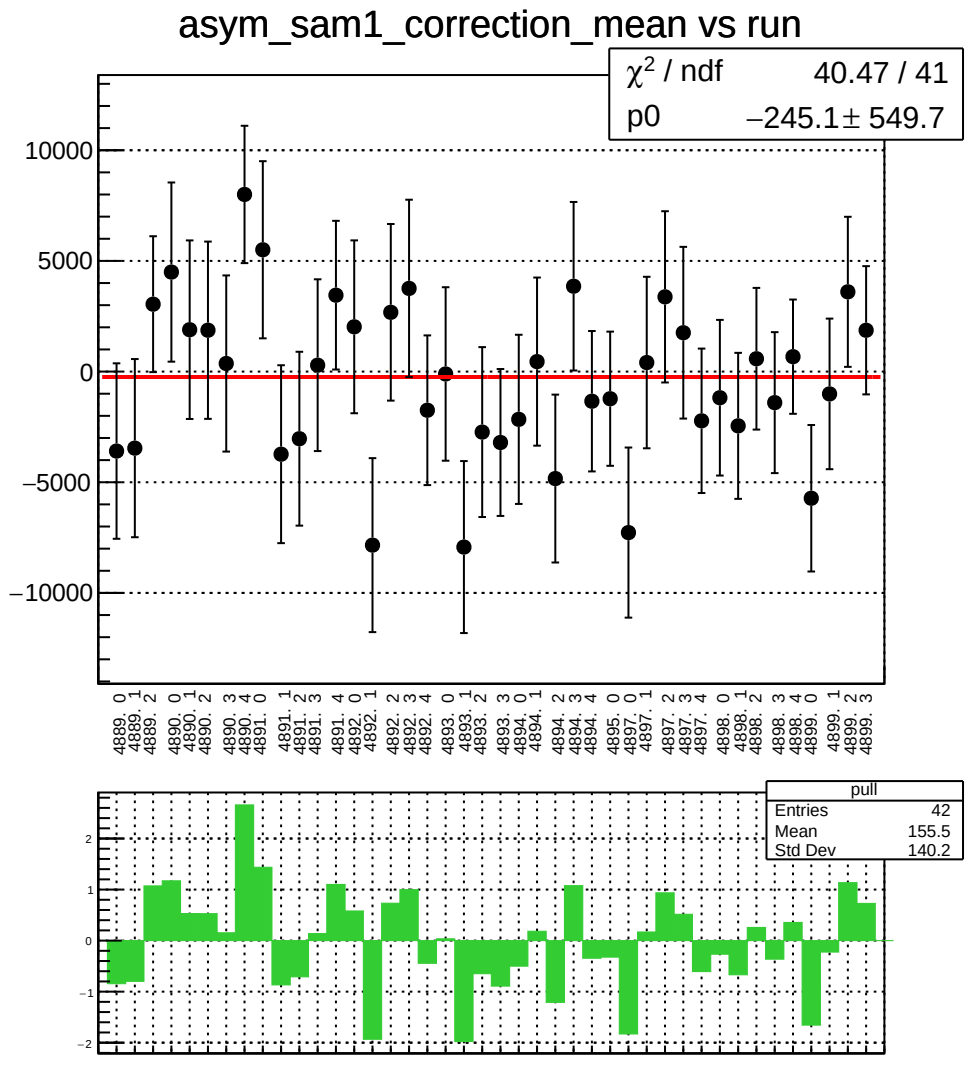

cor_sam8_mean vs run
χ² / ndf 37.45 / 41
p0 −2919 ± 1950
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 890.8
Std Dev 868
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.004057
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

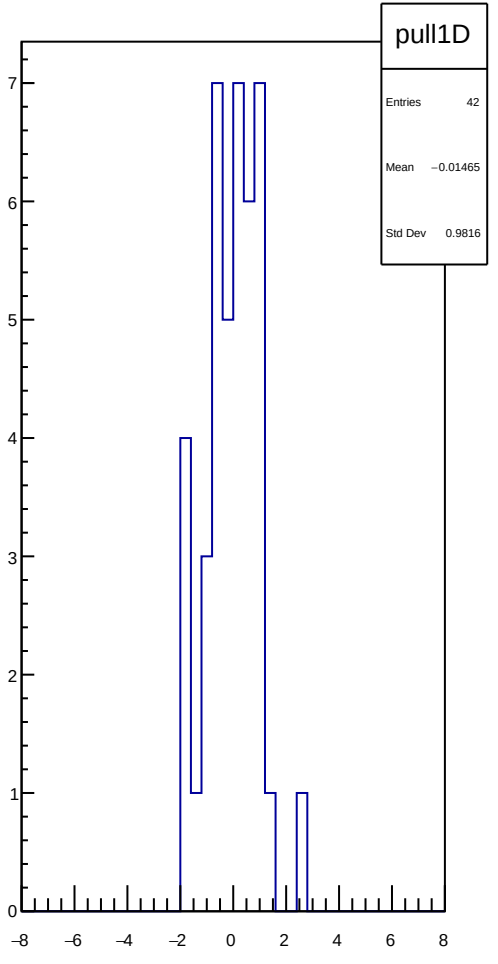

cor_sam8_rms vs run
χ² / ndf 1226 / 41
p0 1261 ± 1.379
1450
1400
1350
1300
1250
1200
1150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

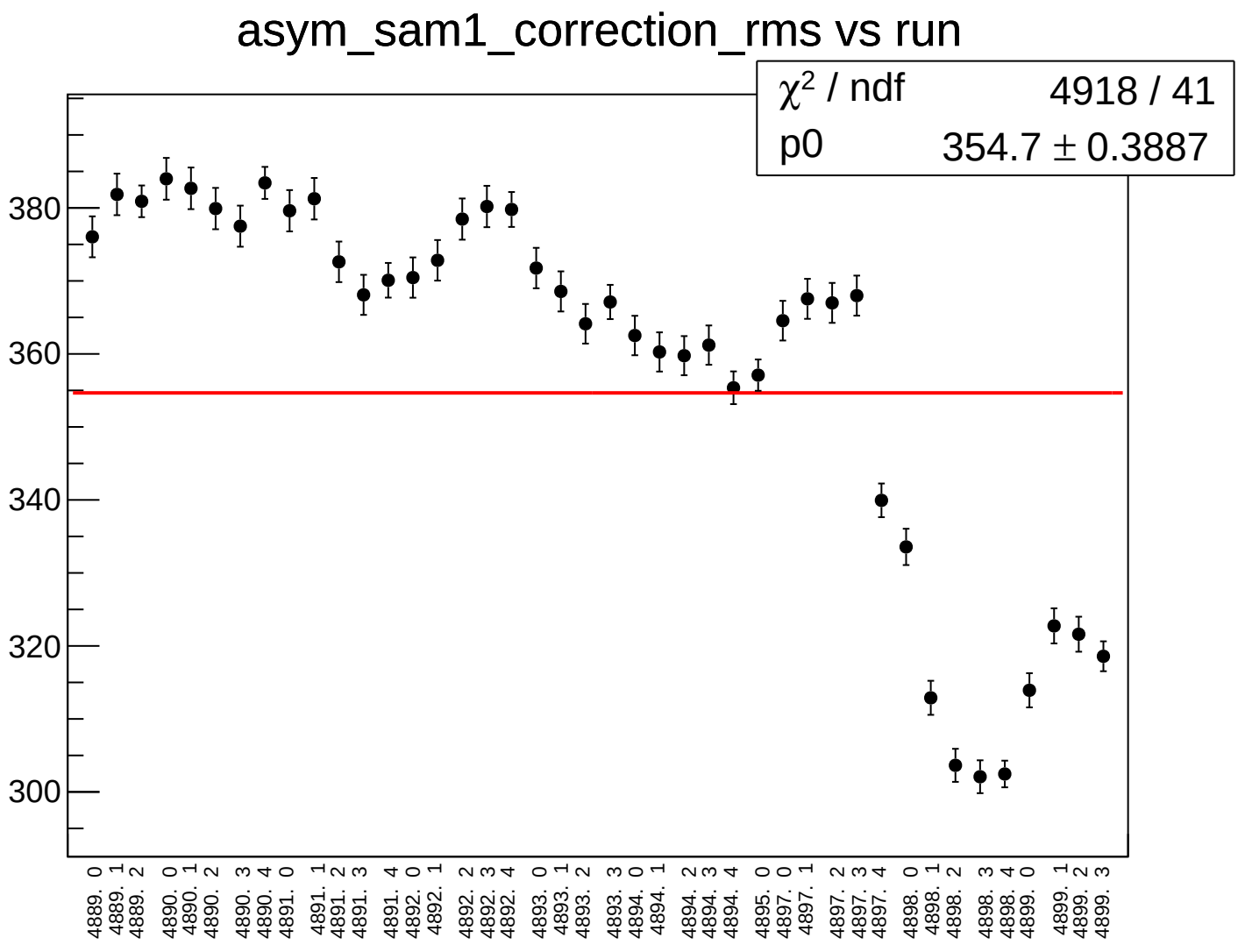

reg_asym_sam1_mean vs run
χ^2 / ndf 25.99 / 41
p0 −1701 ± 337.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 146.6
Std Dev 146.7
1
0.5
0
−0.5
−1
−1.5
−2

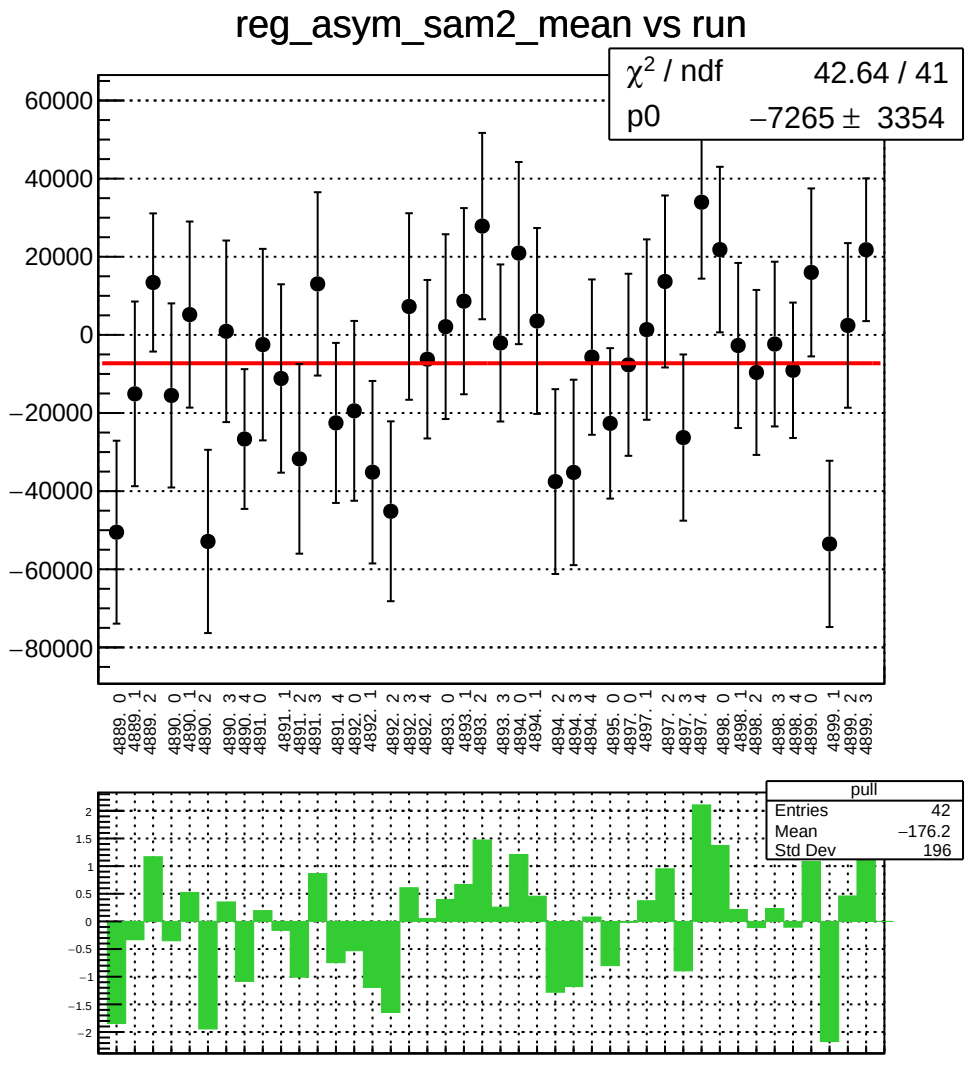

pull1D
Entries 42
Mean −0.002425
Std Dev 0.7866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

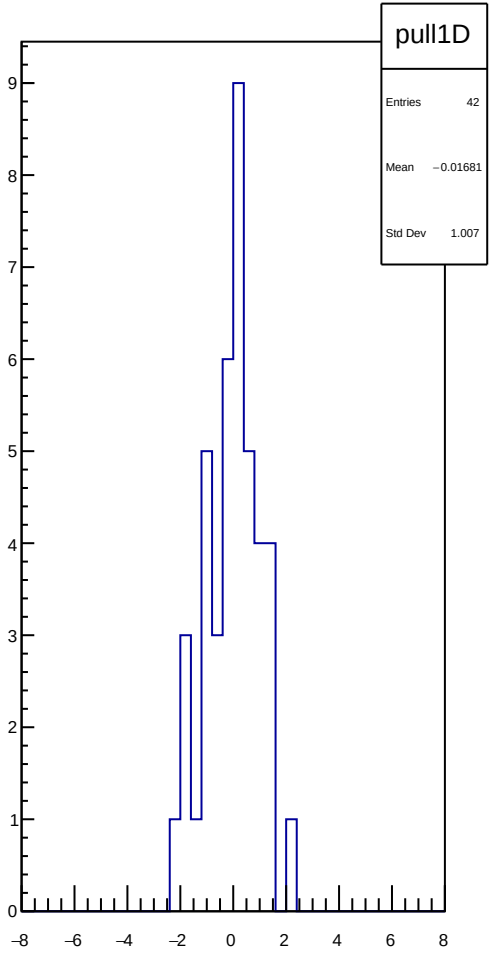

reg_asym_sam1_rms vs run
χ² / ndf 2724 / 41
p0 218.2 ± 0.2388
250
240
230
220
210
200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

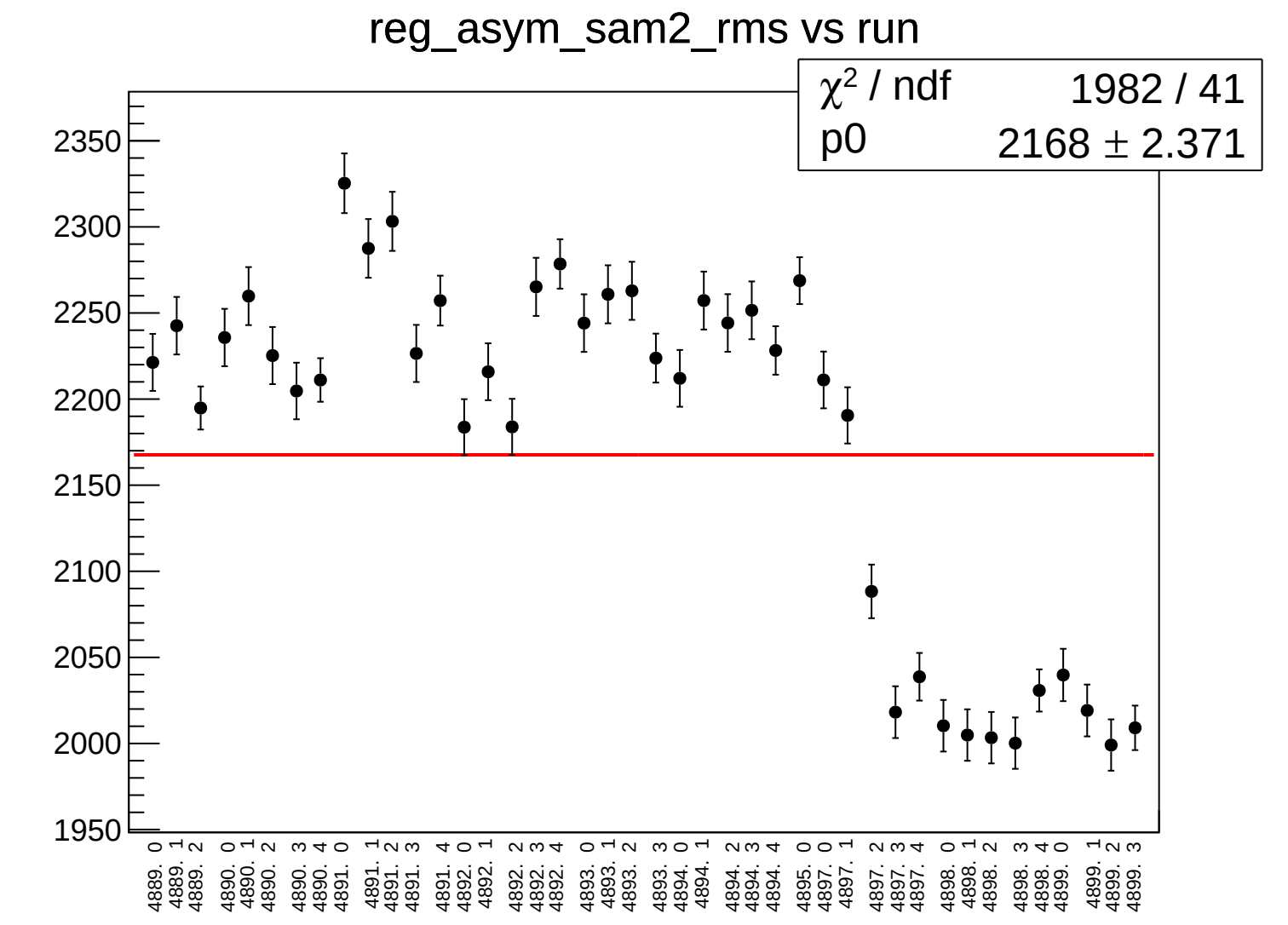

asym_sam1_correction_mean vs run
χ² / ndf 40.47 / 41
p0 −245.1 ± 549.7
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 155.5
Std Dev 140.2
2
1
0
−1
−2

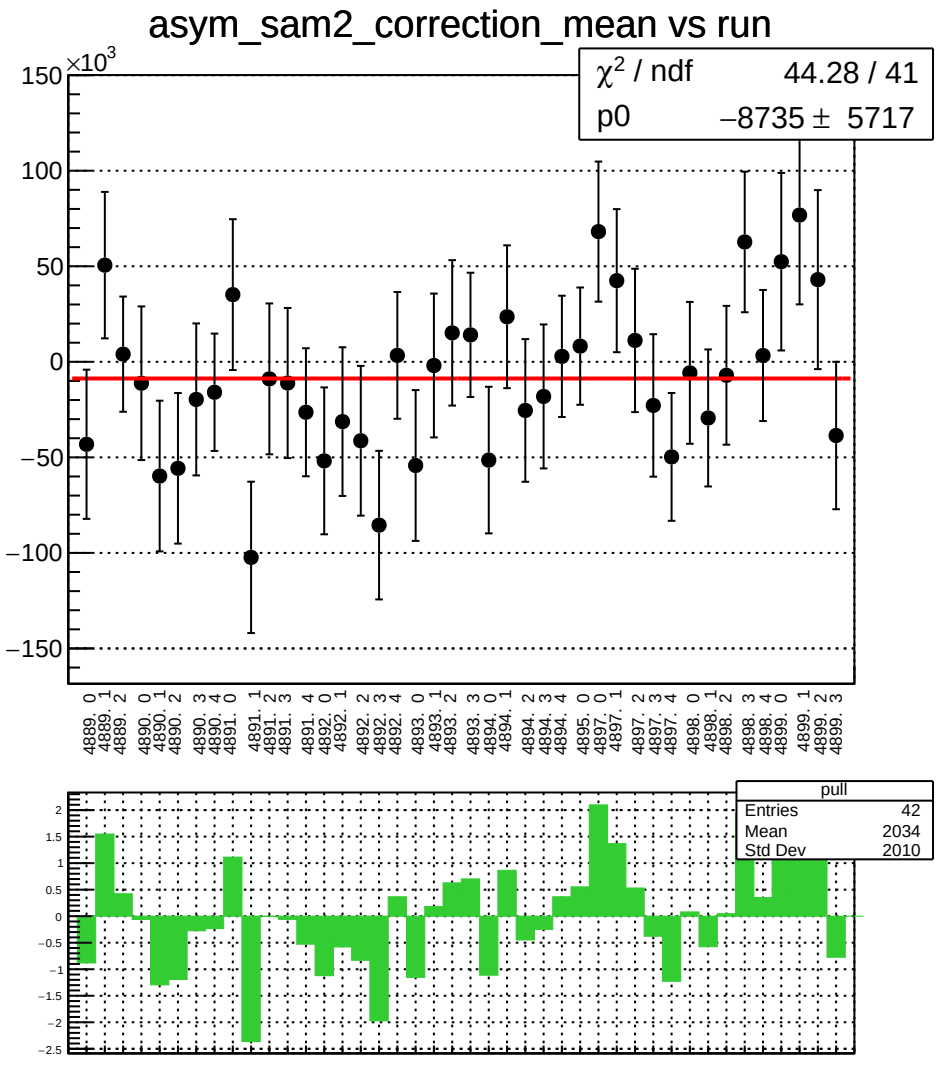

pull1D
Entries 42
Mean −0.01465
Std Dev 0.9816
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

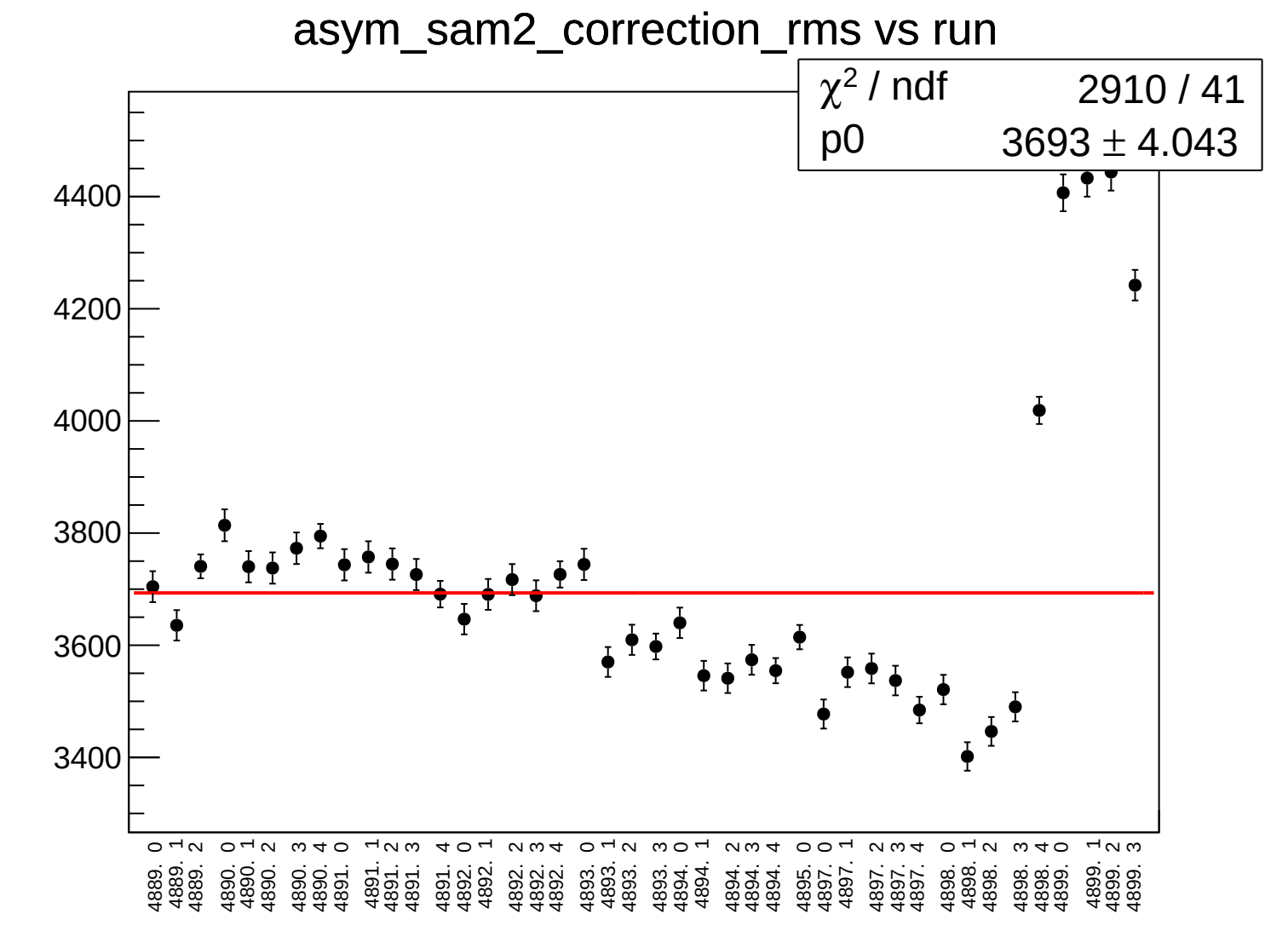

asym_sam1_correction_rms vs run
χ² / ndf 4918 / 41
p0 354.7 ± 0.3887
380
360
340
320
300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

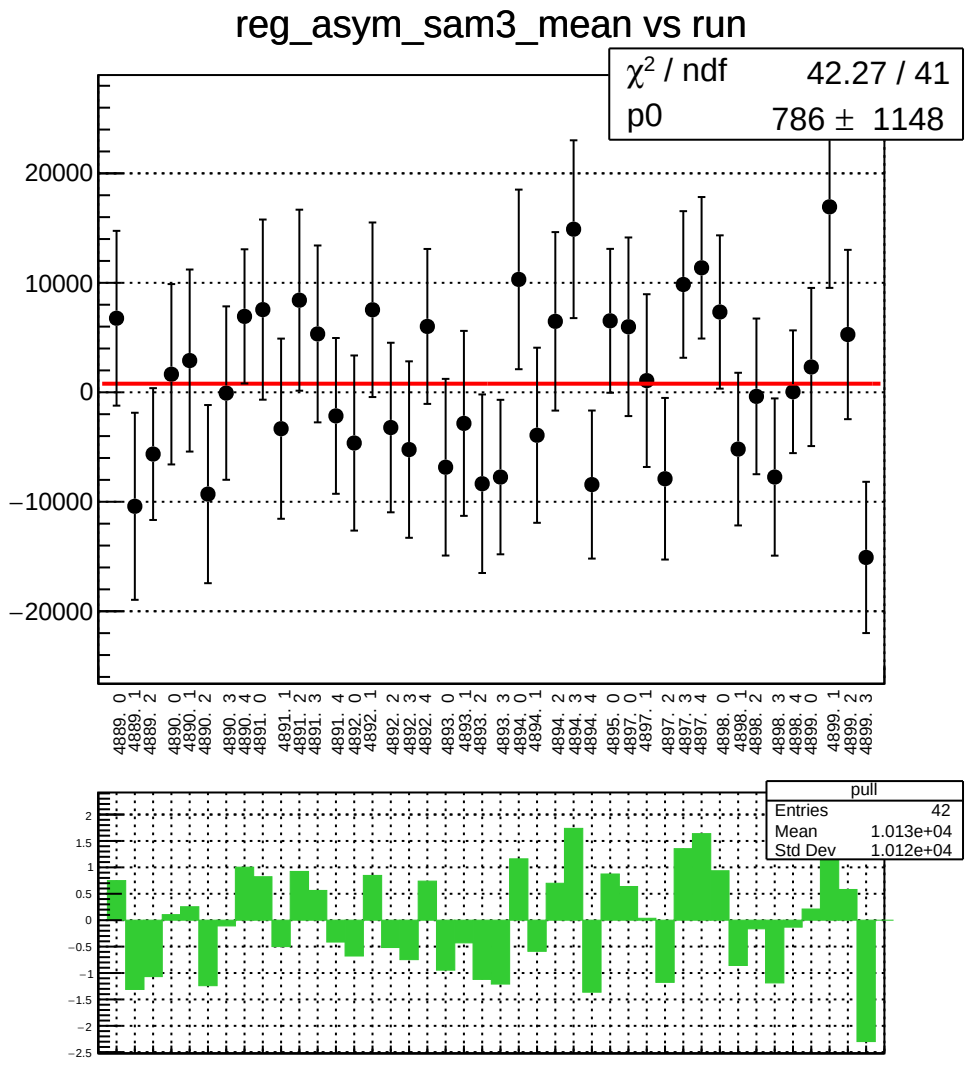

reg_asym_sam2_mean vs run
χ² / ndf 42.64 / 41
p0 −7265 ± 3354
60000
40000
20000
0
−20000
−40000
−60000
−80000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −176.2
Std Dev 196
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

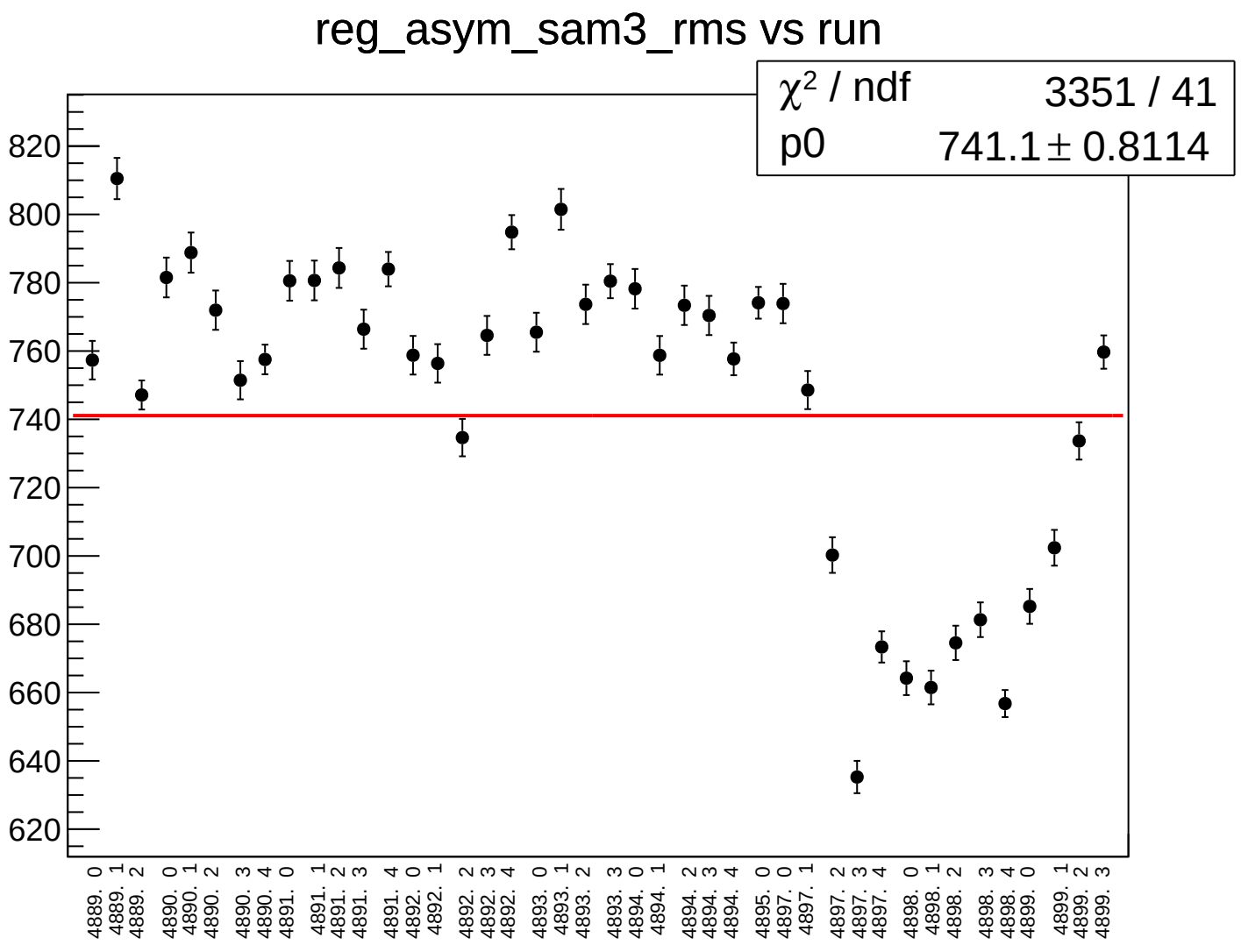

pull1D
Entries 42
Mean −0.01681
Std Dev 1.007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

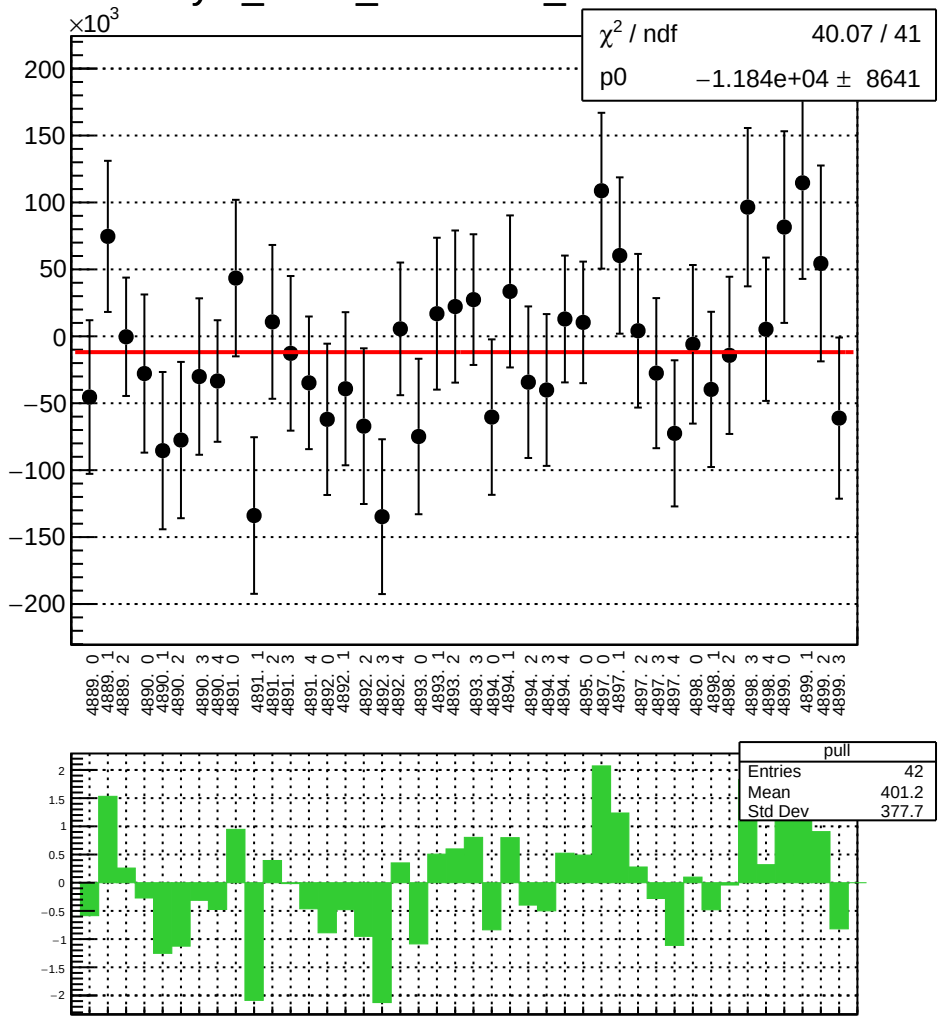

reg_asym_sam2_rms vs run
χ² / ndf 1982 / 41
p0 2168 ± 2.371
2350
2300
2250
2200
2150
2100
2050
2000
1950
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

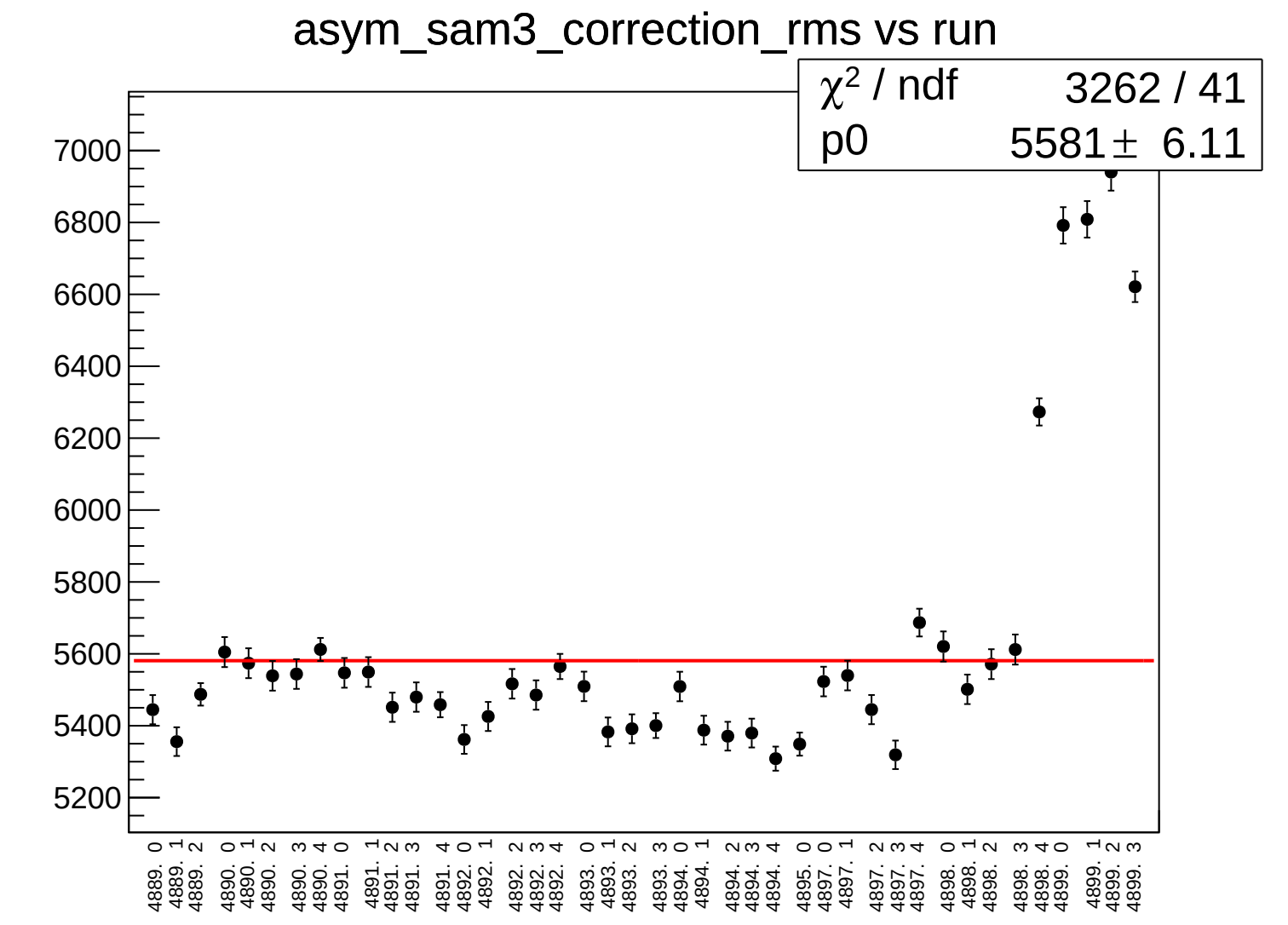

asym_sam2_correction_mean vs run
χ² / ndf 44.28 / 41
p0 −8735 ± 5717
×10³
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 2034
Std Dev 2010
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean 0.002172
Std Dev 1.027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

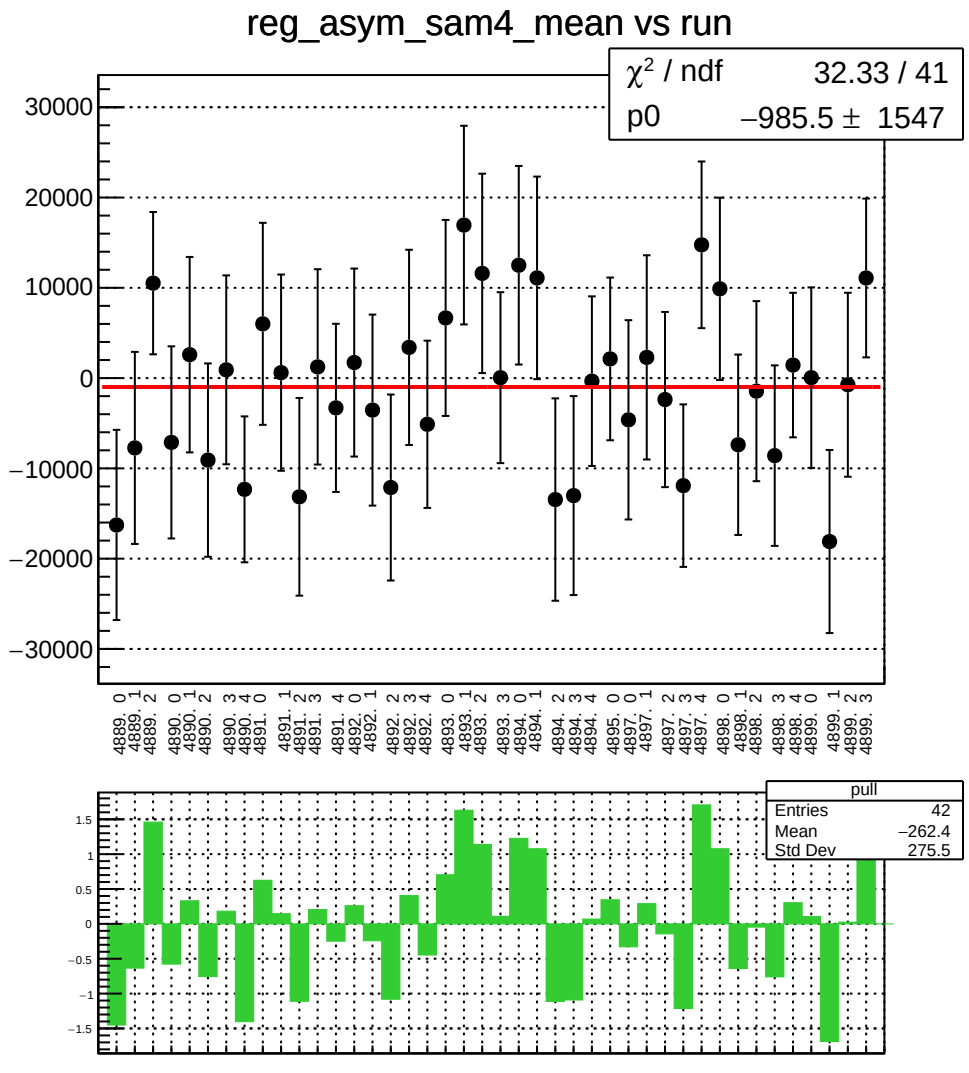

asym_sam2_correction_rms vs run
χ² / ndf 2910 / 41
p0 3693 ± 4.043
4400
4200
4000
3800
3600
3400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

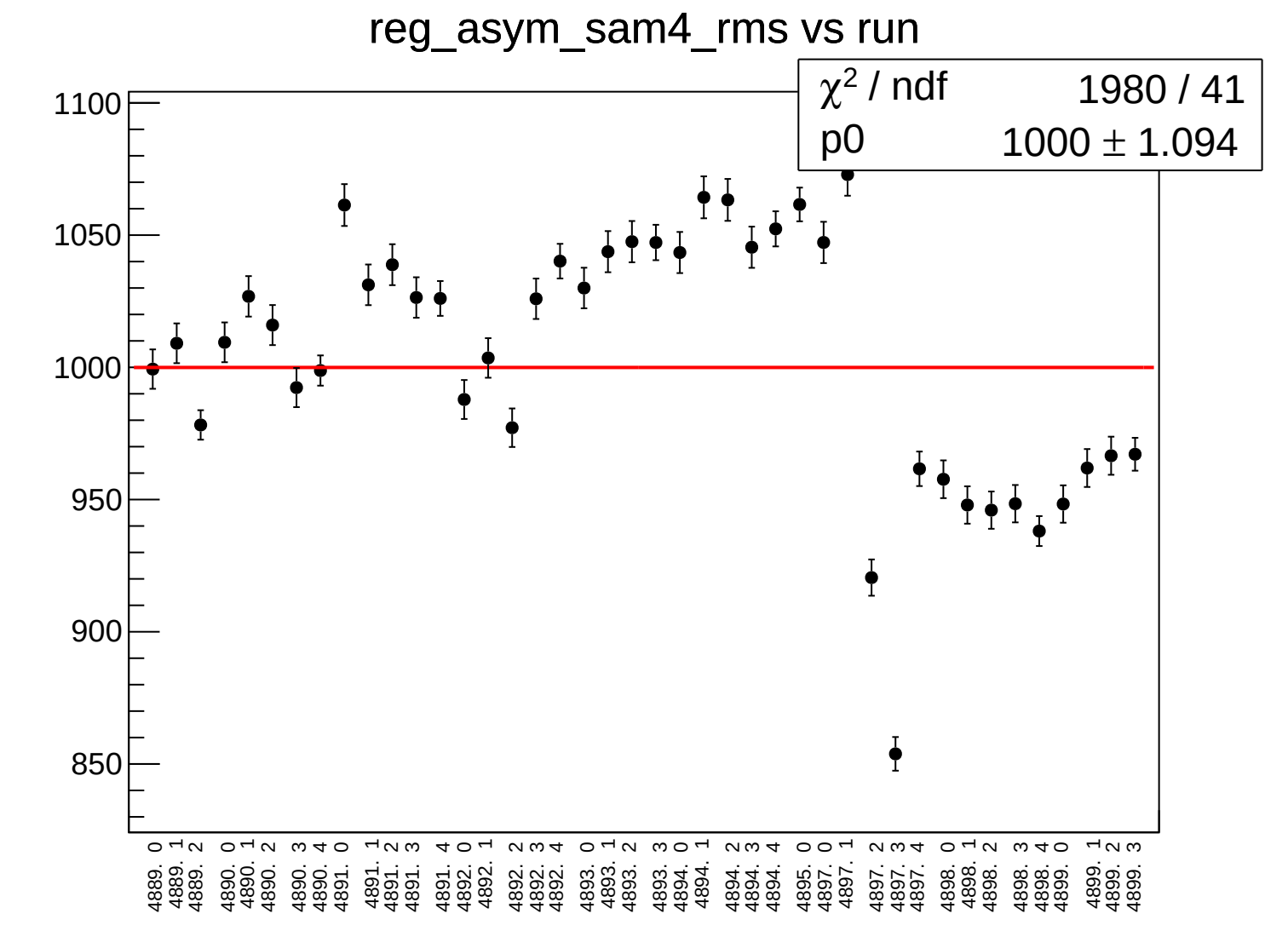

reg_asym_sam3_mean vs run
χ² / ndf 42.27 / 41
p0 786 ± 1148
20000
10000
0
−10000
−20000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1.013e+04
Std Dev 1.012e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean 9.994e−05
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

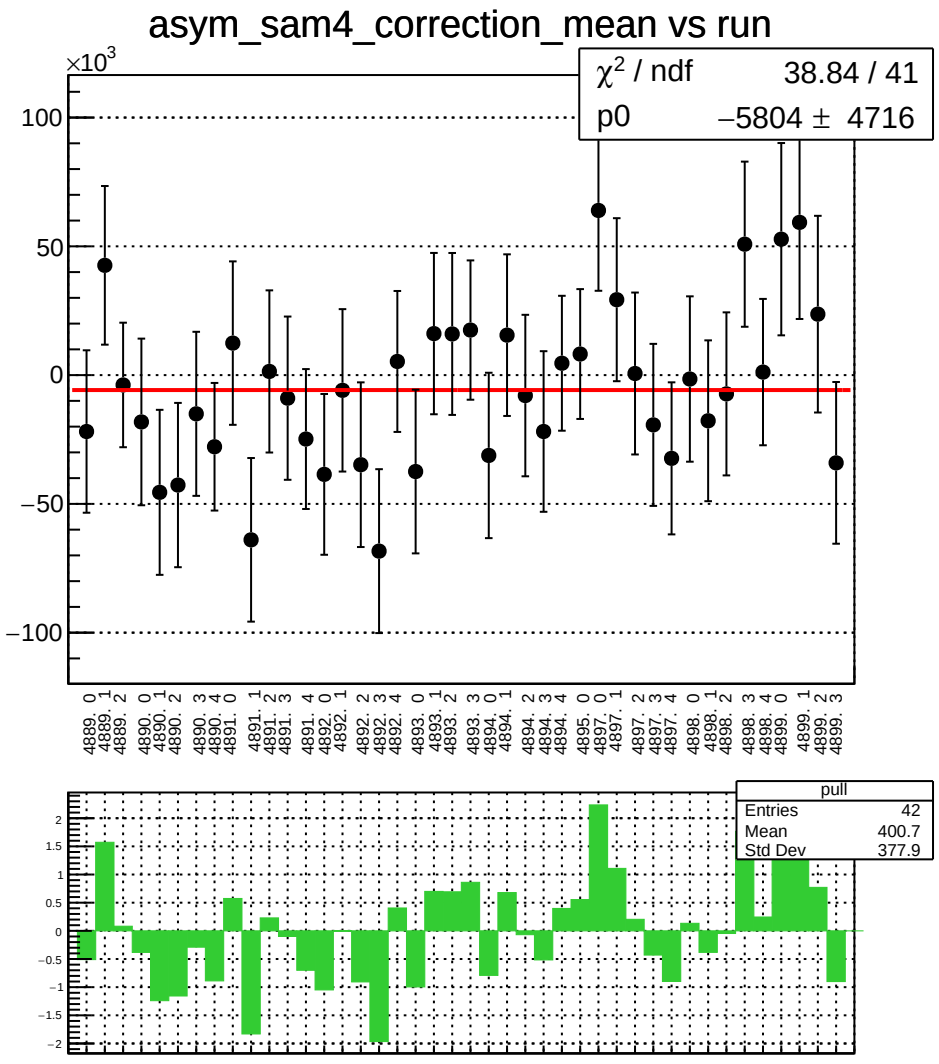

reg_asym_sam3_rms vs run
χ² / ndf 3351 / 41
p0 741.1 ± 0.8114
820
800
780
760
740
720
700
680
660
640
620
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

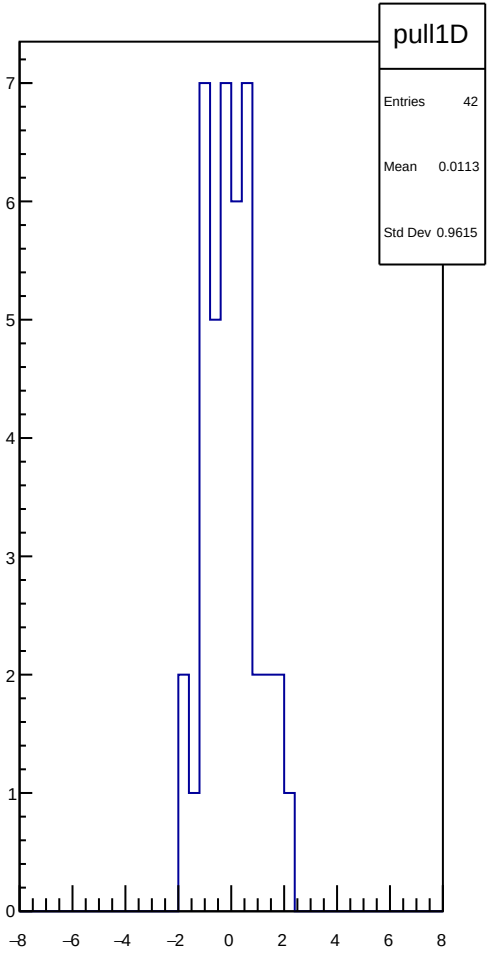

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 40.07 / 41
p0 −1.184e+04 ± 8641
200
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 401.2
Std Dev 377.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.01057
Std Dev 0.9767
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

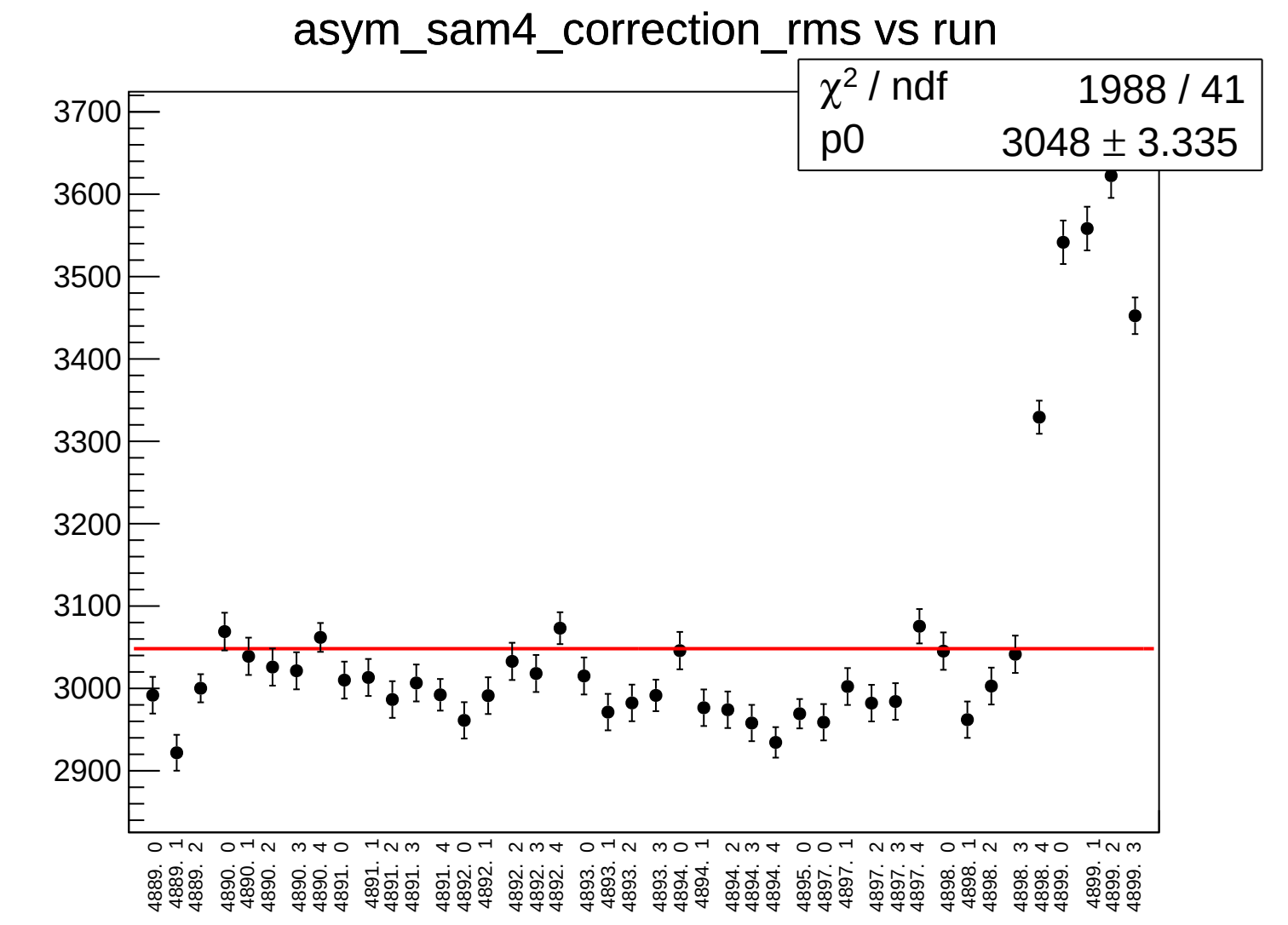

asym_sam3_correction_rms vs run
χ² / ndf 3262 / 41
p0 5581 ± 6.11
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

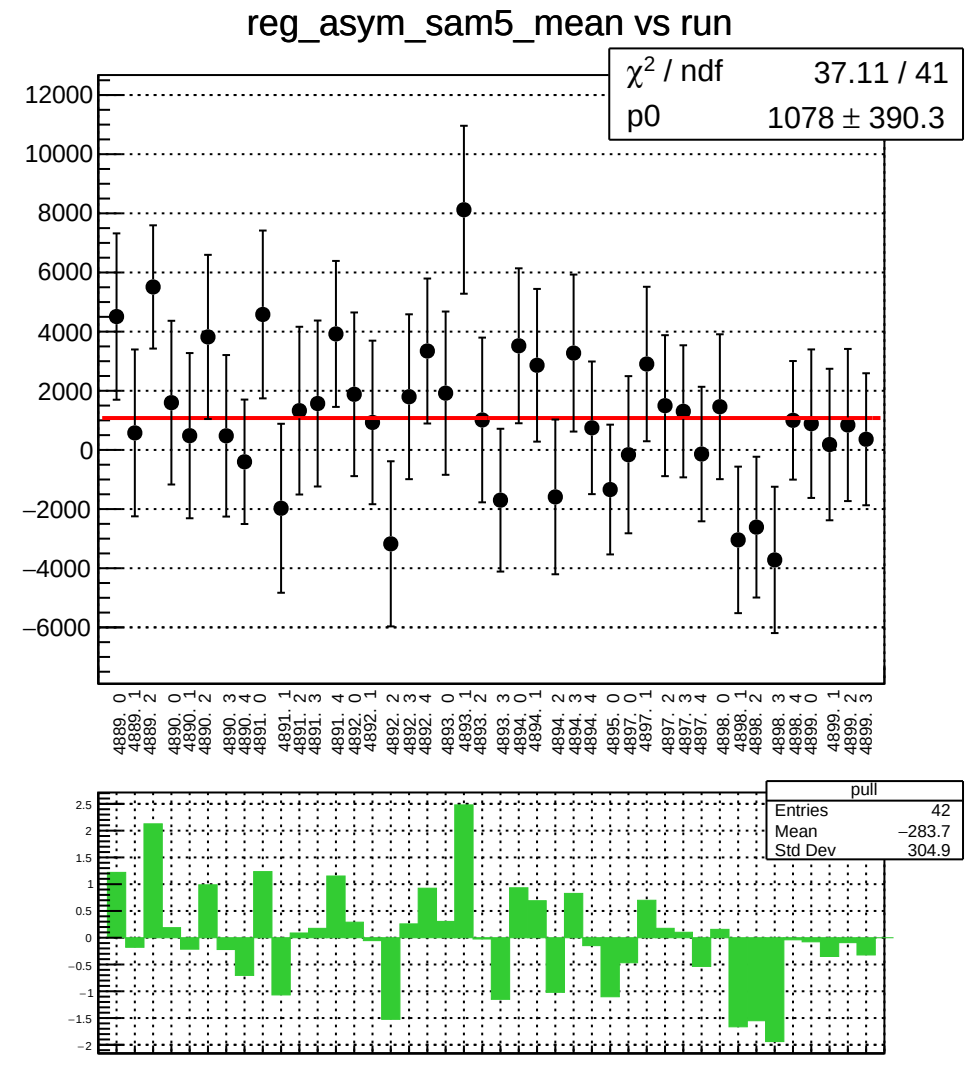

reg_asym_sam4_mean vs run
χ² / ndf 32.33 / 41
p0 −985.5 ± 1547
30000
20000
10000
0
−10000
−20000
−30000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −262.4
Std Dev 275.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.004294
Std Dev 0.8773
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

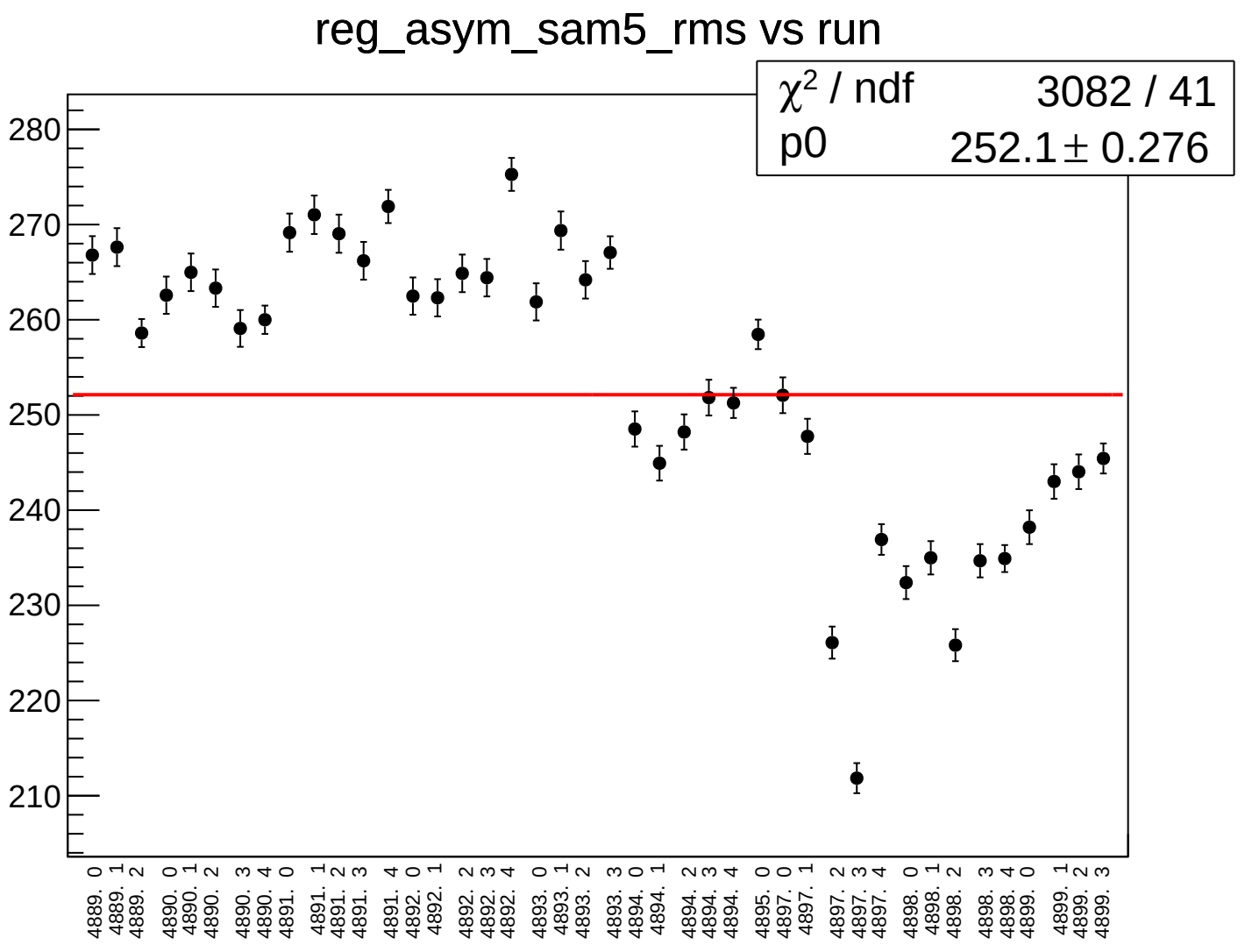

reg_asym_sam4_rms vs run
χ² / ndf 1980 / 41
p0 1000 ± 1.094
1100
1050
1000
950
900
850
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

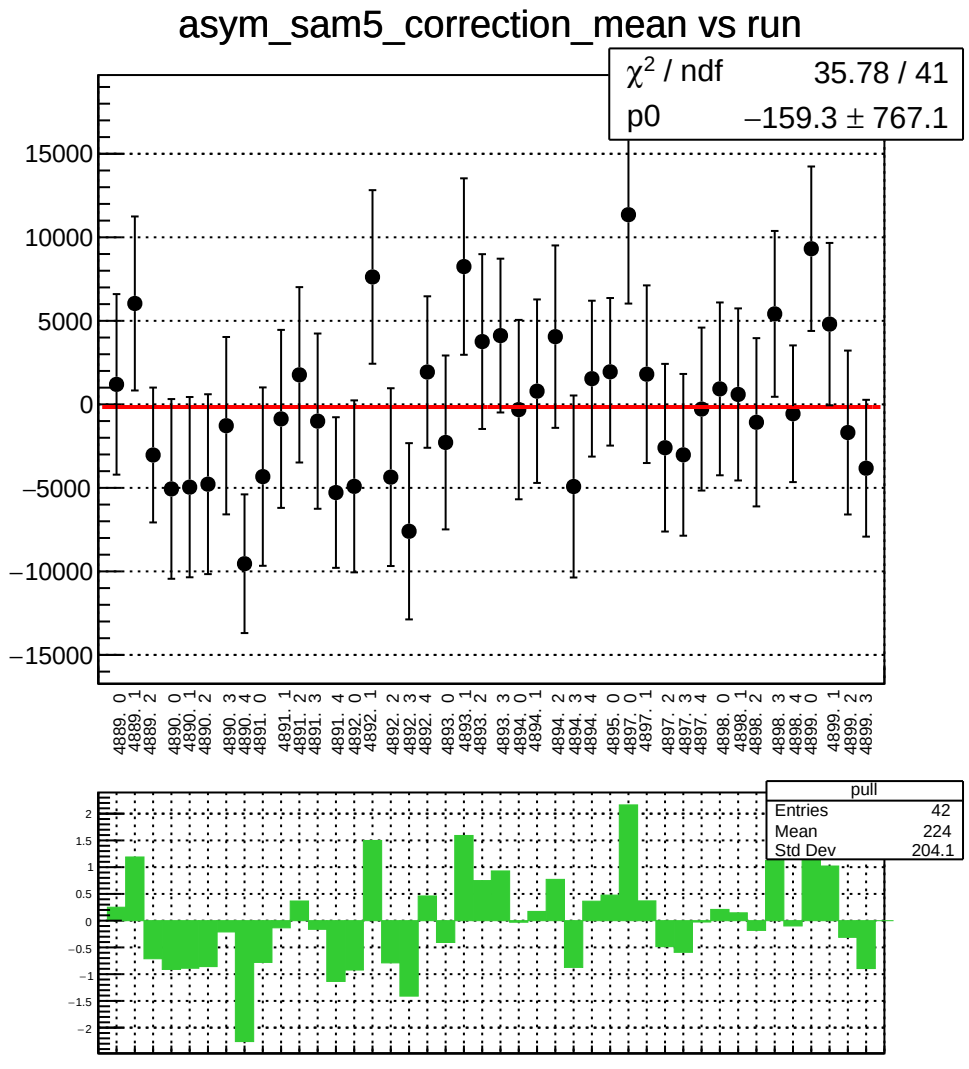

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 38.84 / 41
p0 −5804 ± 4716
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 400.7
Std Dev 377.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

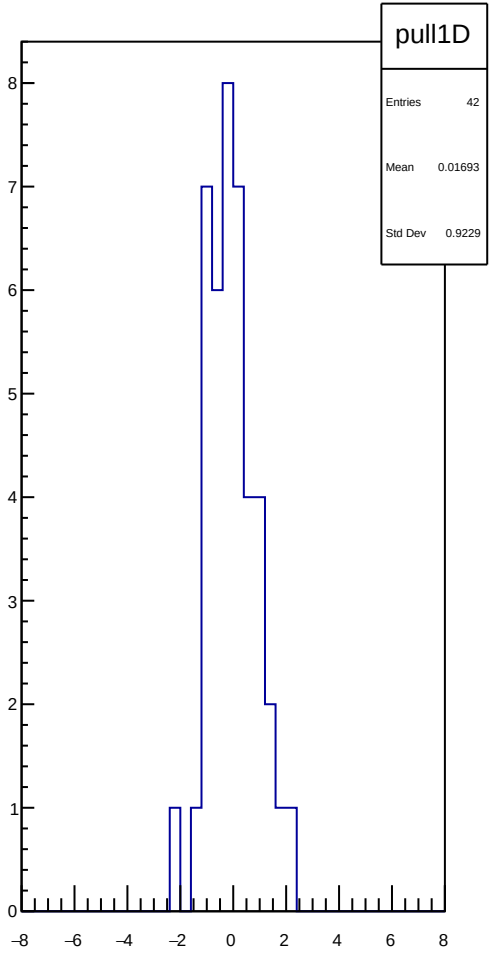

pull1D
Entries 42
Mean 0.0113
Std Dev 0.9615
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

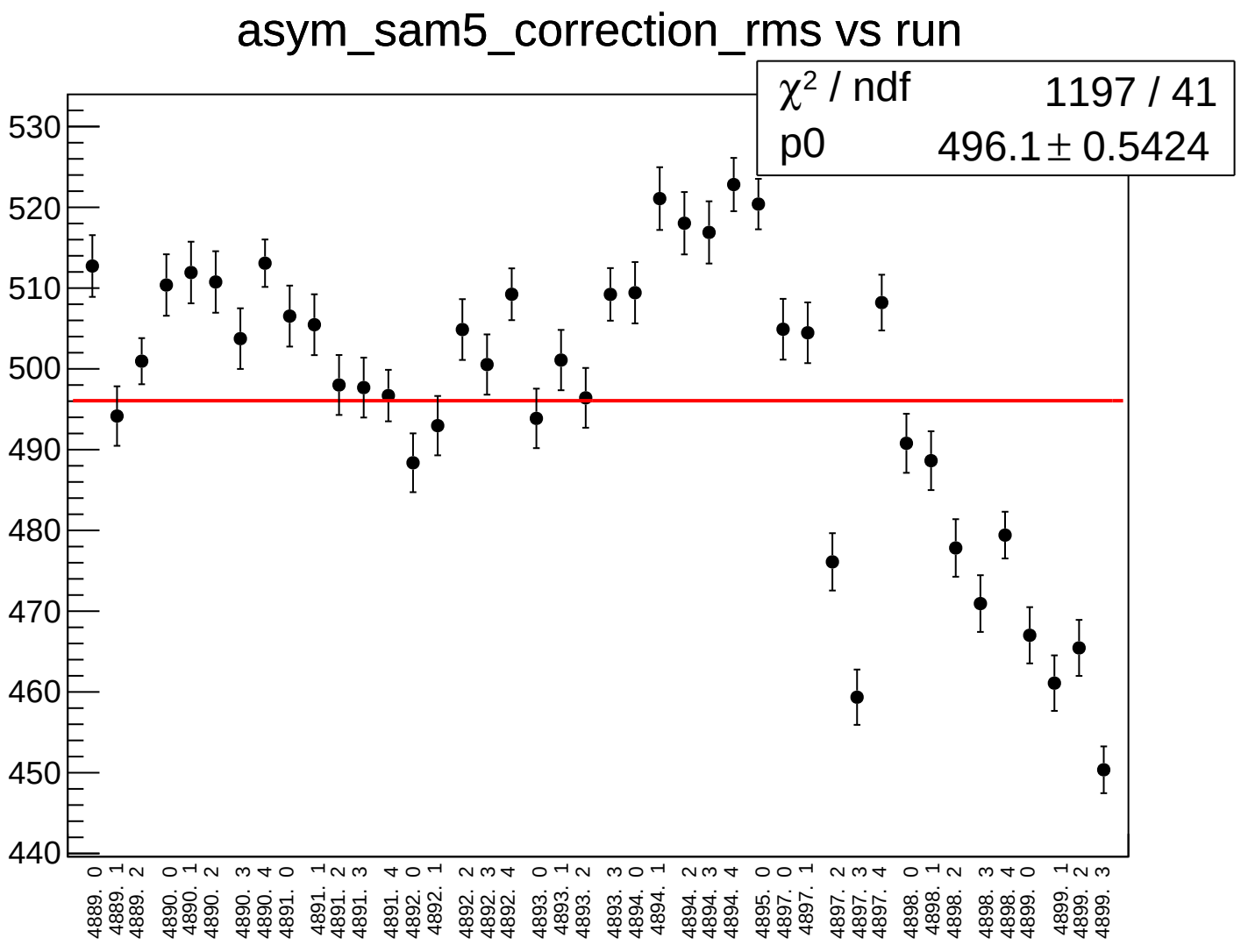

asym_sam4_correction_rms vs run
χ² / ndf 1988 / 41
p0 3048 ± 3.335
3700
3600
3500
3400
3300
3200
3100
3000
2900
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

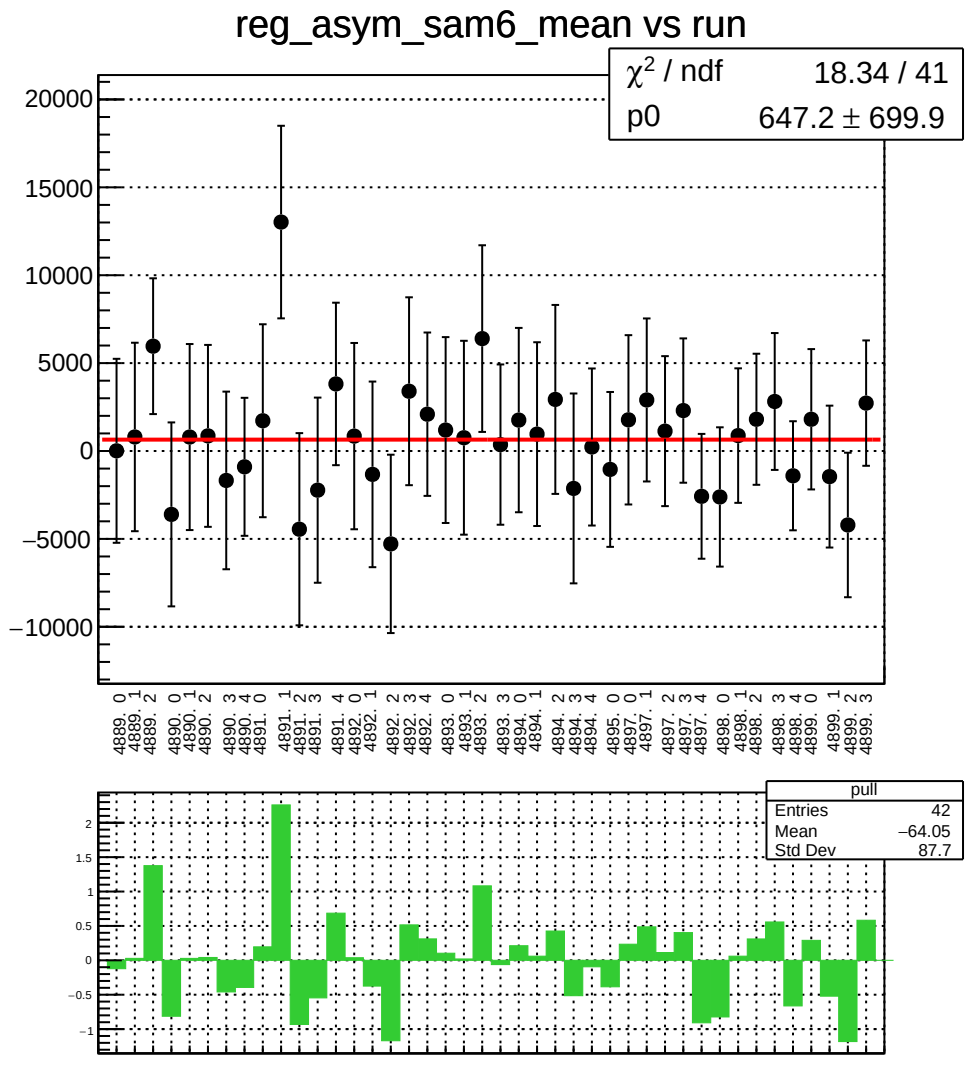

reg_asym_sam5_mean vs run
χ² / ndf 37.11 / 41
p0 1078 ± 390.3
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −283.7
Std Dev 304.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.01385
Std Dev 0.9399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

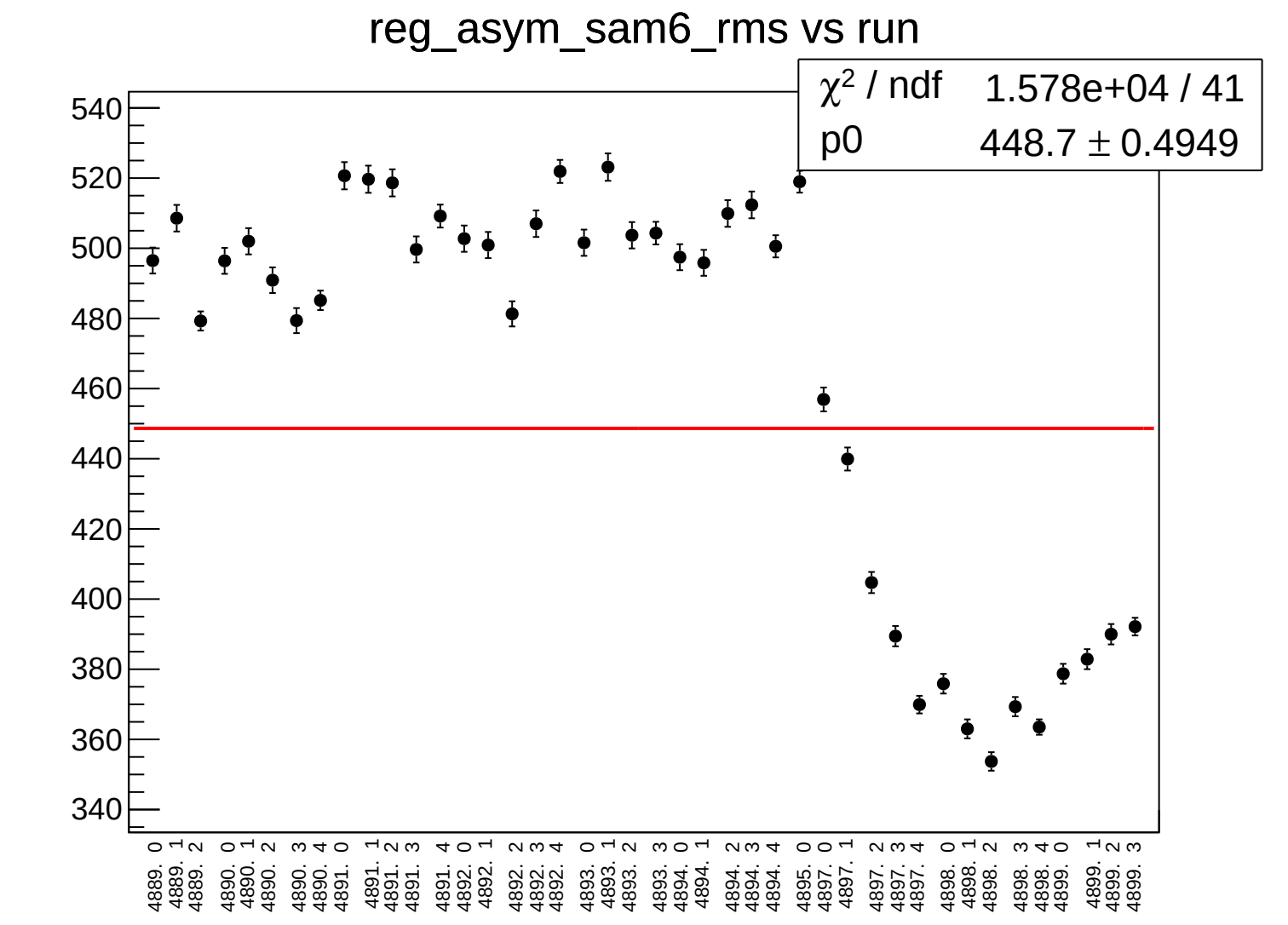

reg_asym_sam5_rms vs run
χ² / ndf 3082 / 41
p0 252.1 ± 0.276
280
270
260
250
240
230
220
210
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

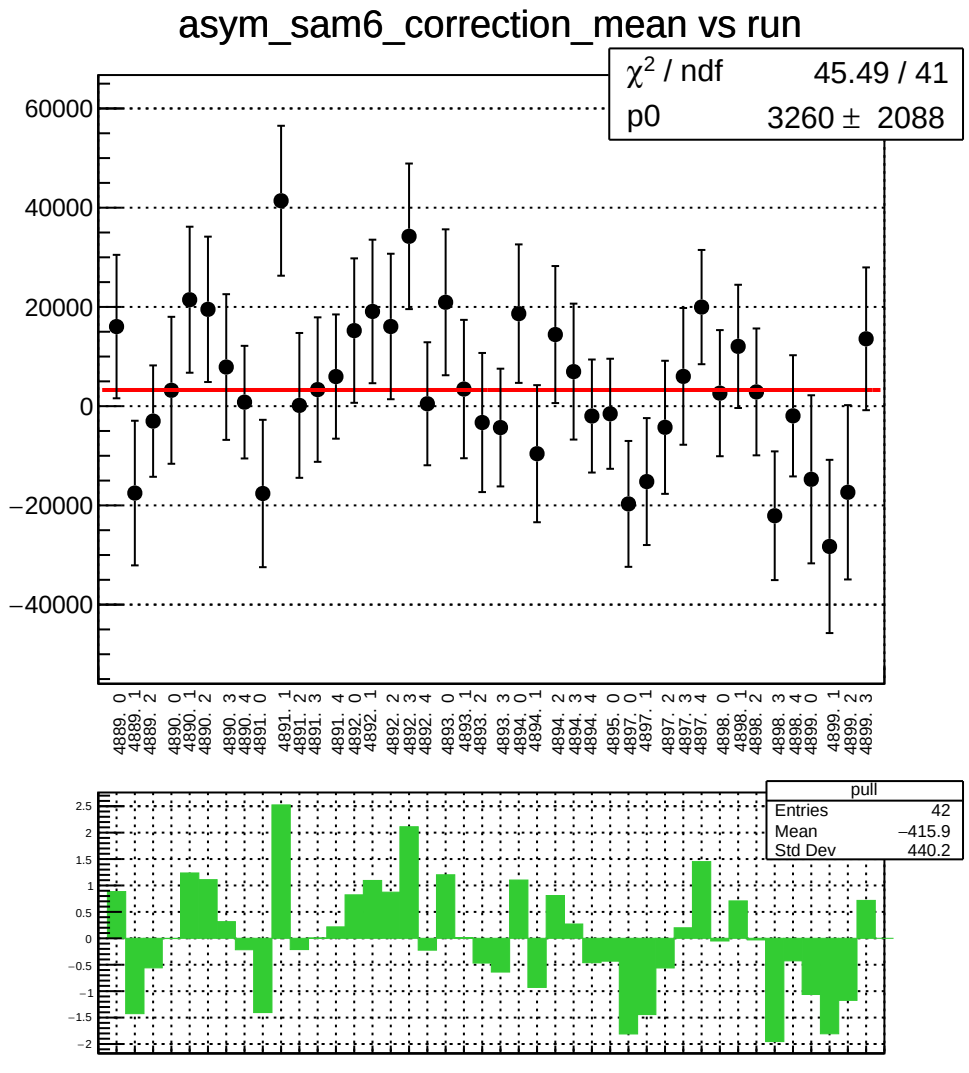

asym_sam5_correction_mean vs run
χ² / ndf 35.78 / 41
p0 −159.3 ± 767.1
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 224
Std Dev 204.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

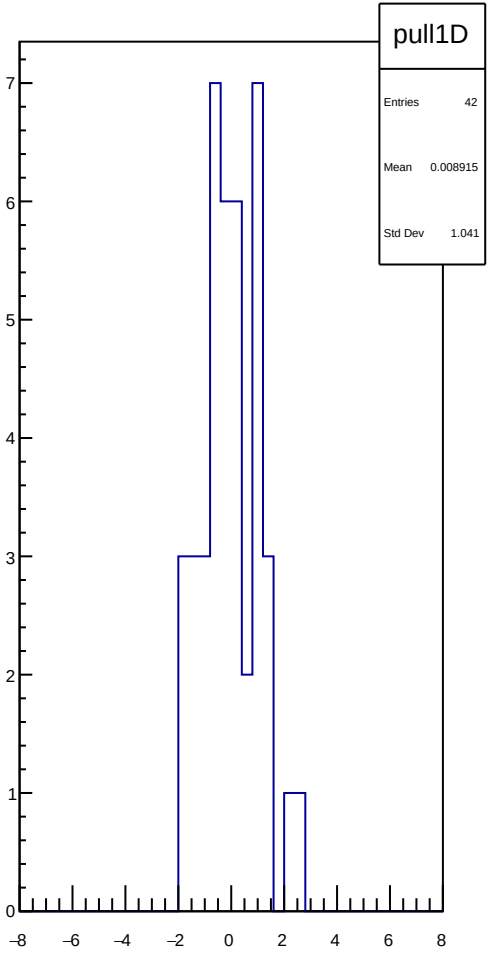

pull1D
Entries 42
Mean 0.01693
Std Dev 0.9229
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

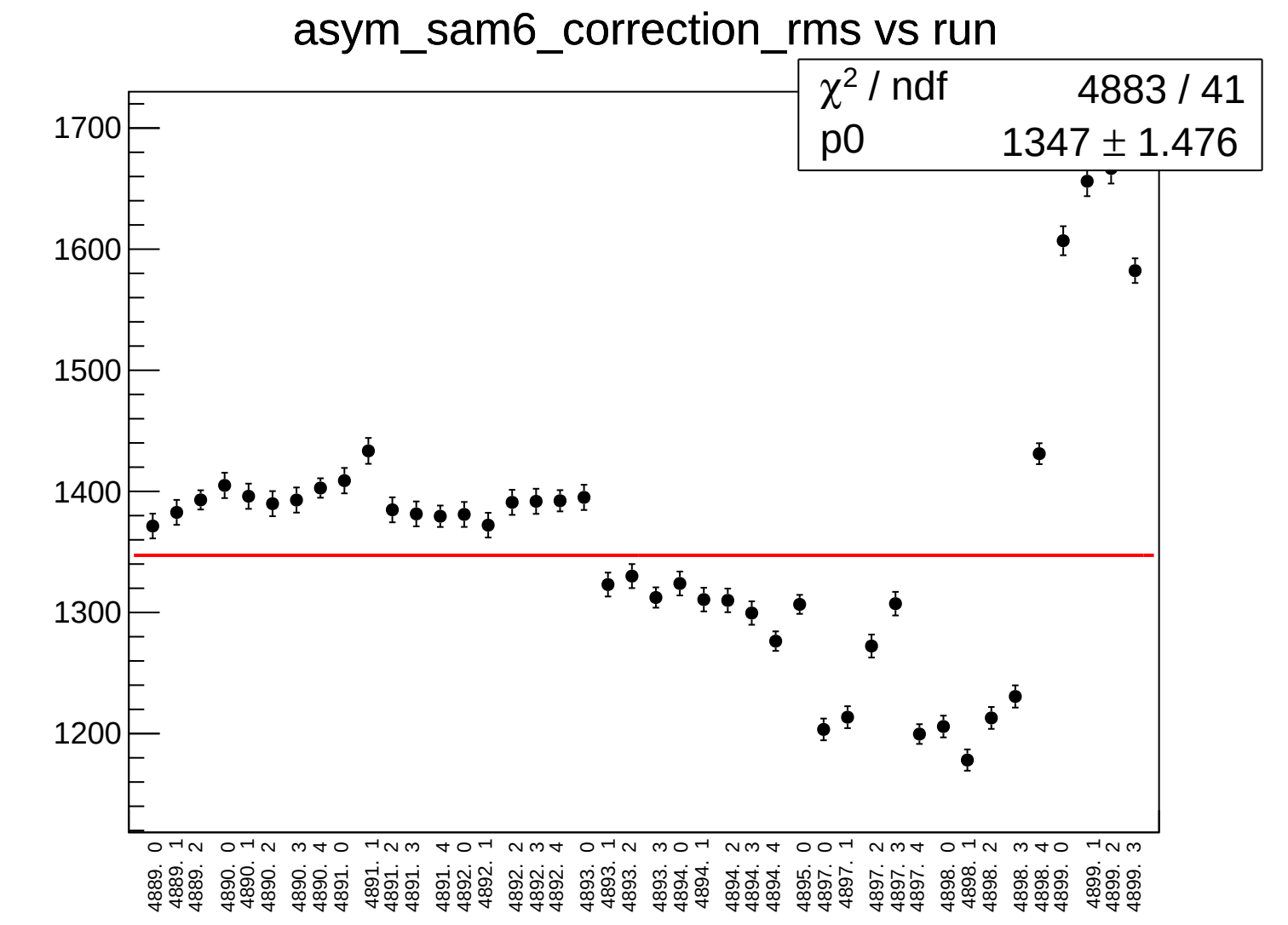

asym_sam5_correction_rms vs run
χ² / ndf 1197 / 41
p0 496.1 ± 0.5424
530
520
510
500
490
480
470
460
450
440
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

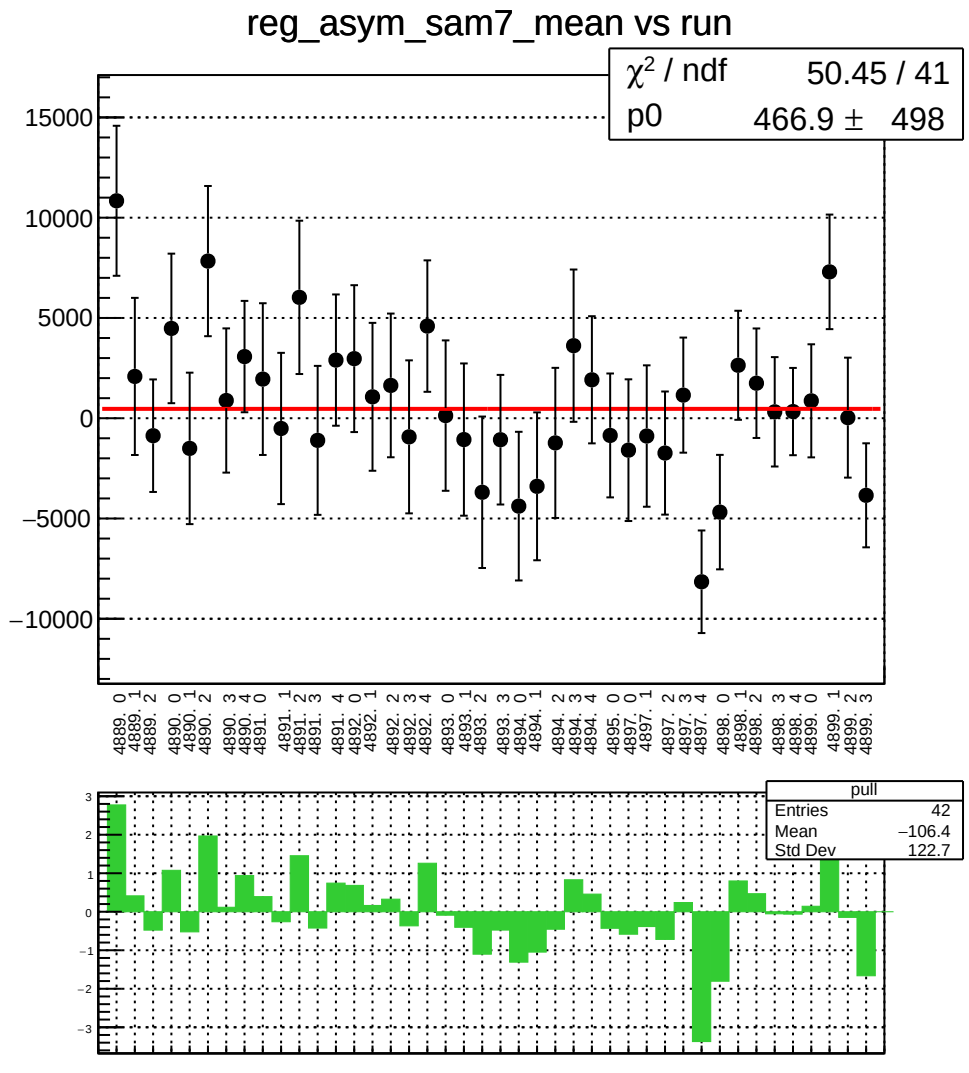

reg_asym_sam6_mean vs run
χ² / ndf 18.34 / 41
p0 647.2 ± 699.9
20000
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −64.05
Std Dev 87.7
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean 0.0109
Std Dev 0.6607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

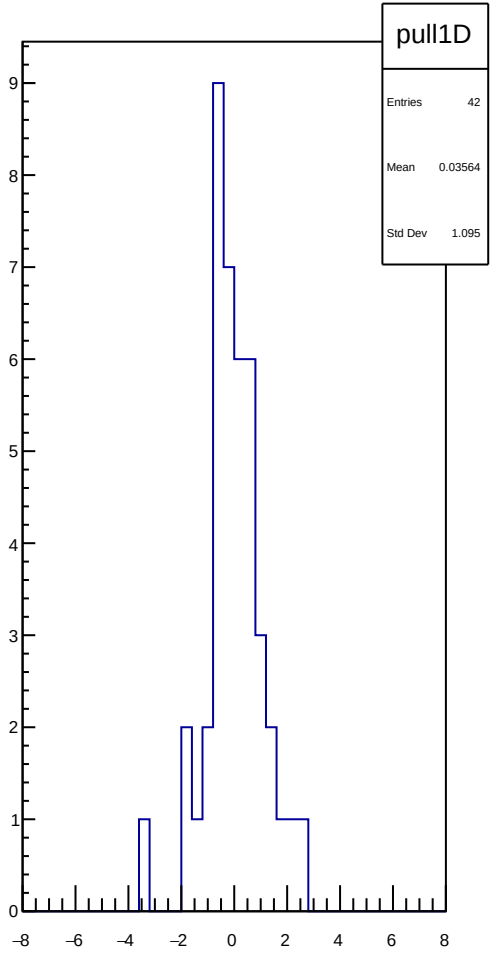

reg_asym_sam6_rms vs run
χ² / ndf 1.578e+04 / 41
p0 448.7 ± 0.4949
540
520
500
480
460
440
420
400
380
360
340
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

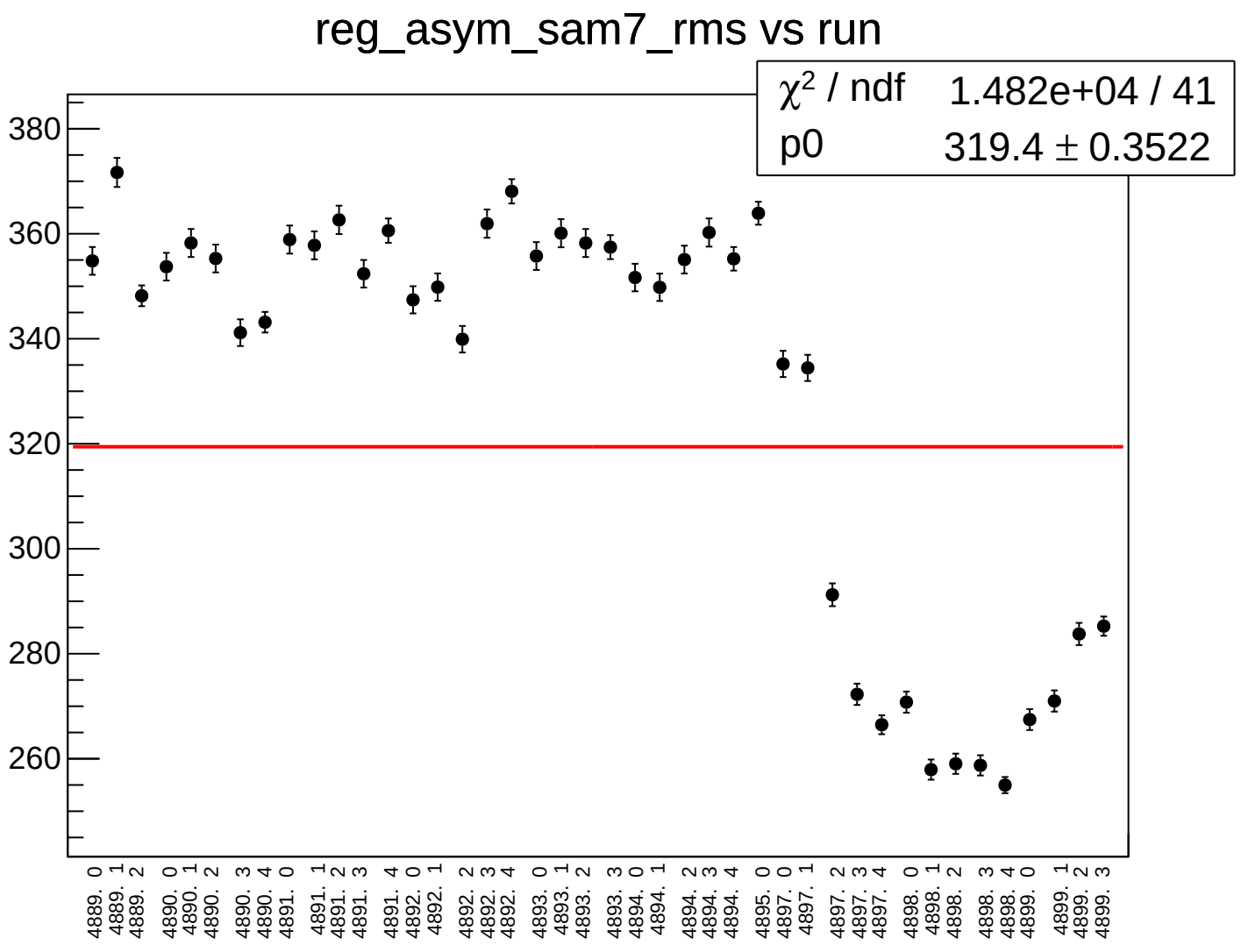

asym_sam6_correction_mean vs run
χ² / ndf 45.49 / 41
p0 3260 ± 2088
60000
40000
20000
0
−20000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −415.9
Std Dev 440.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

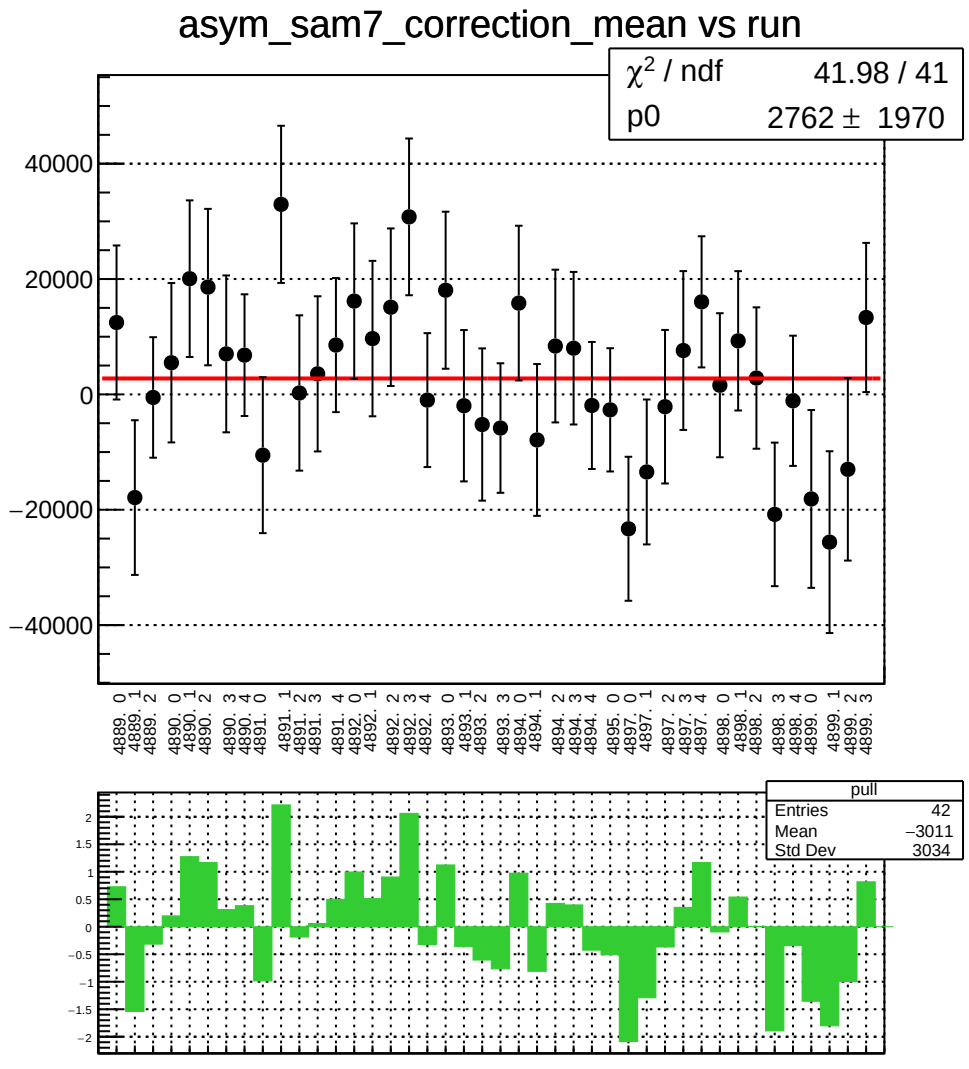

pull1D
Entries 42
Mean 0.008915
Std Dev 1.041
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

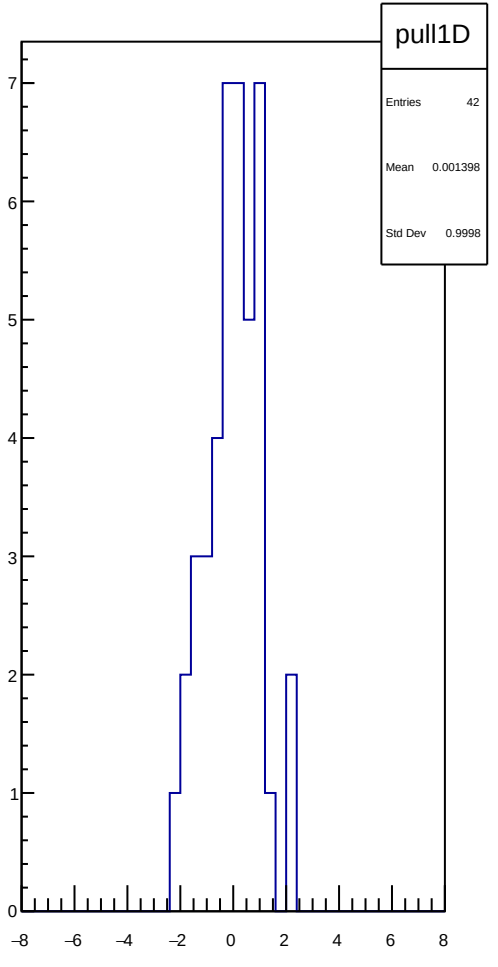

asym_sam6_correction_rms vs run
χ² / ndf 4883 / 41
p0 1347 ± 1.476
1700
1600
1500
1400
1300
1200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

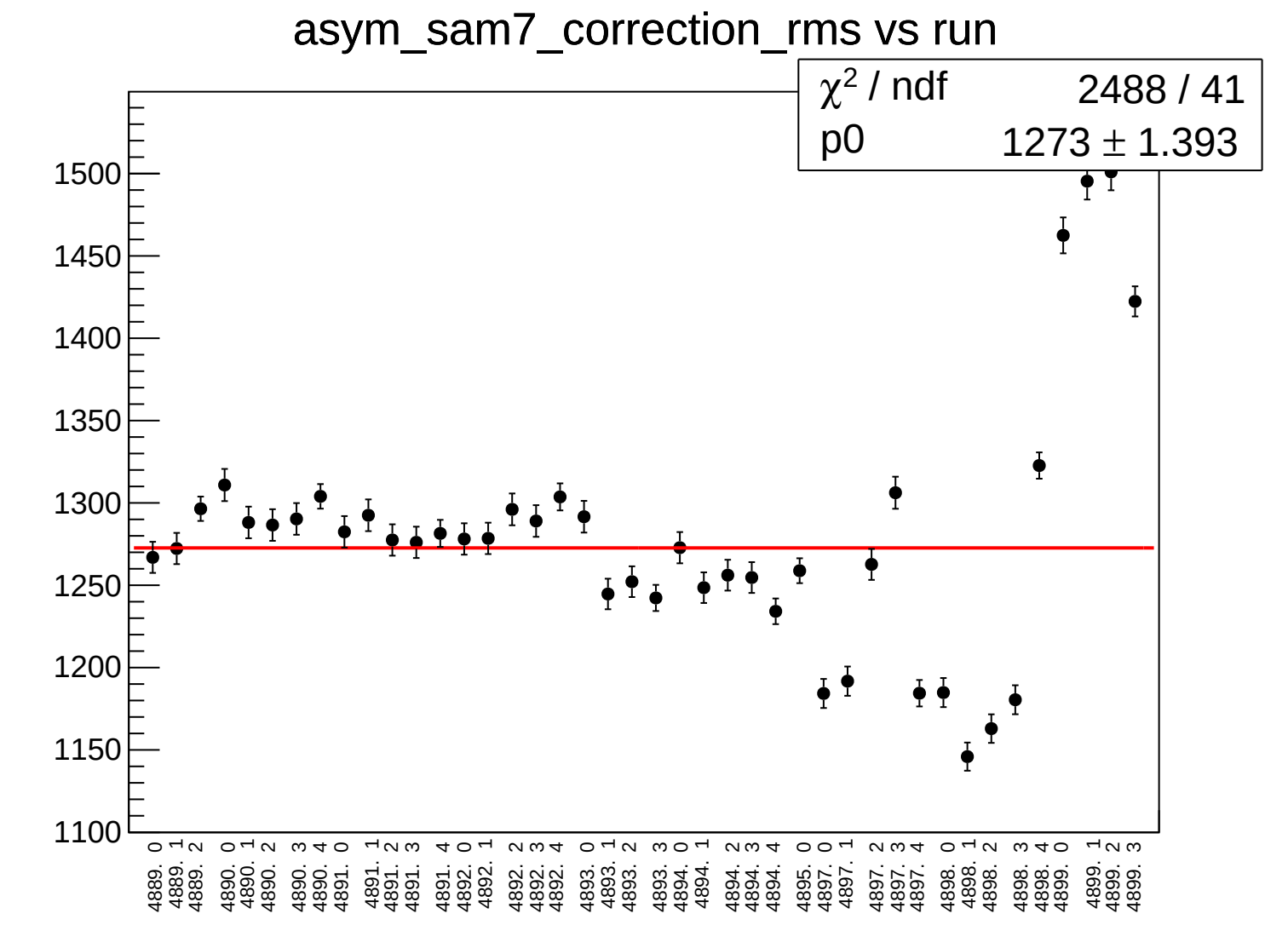

reg_asym_sam7_mean vs run
χ² / ndf 50.45 / 41
p0 466.9 ± 498
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −106.4
Std Dev 122.7
3
2
1
0
−1
−2
−3

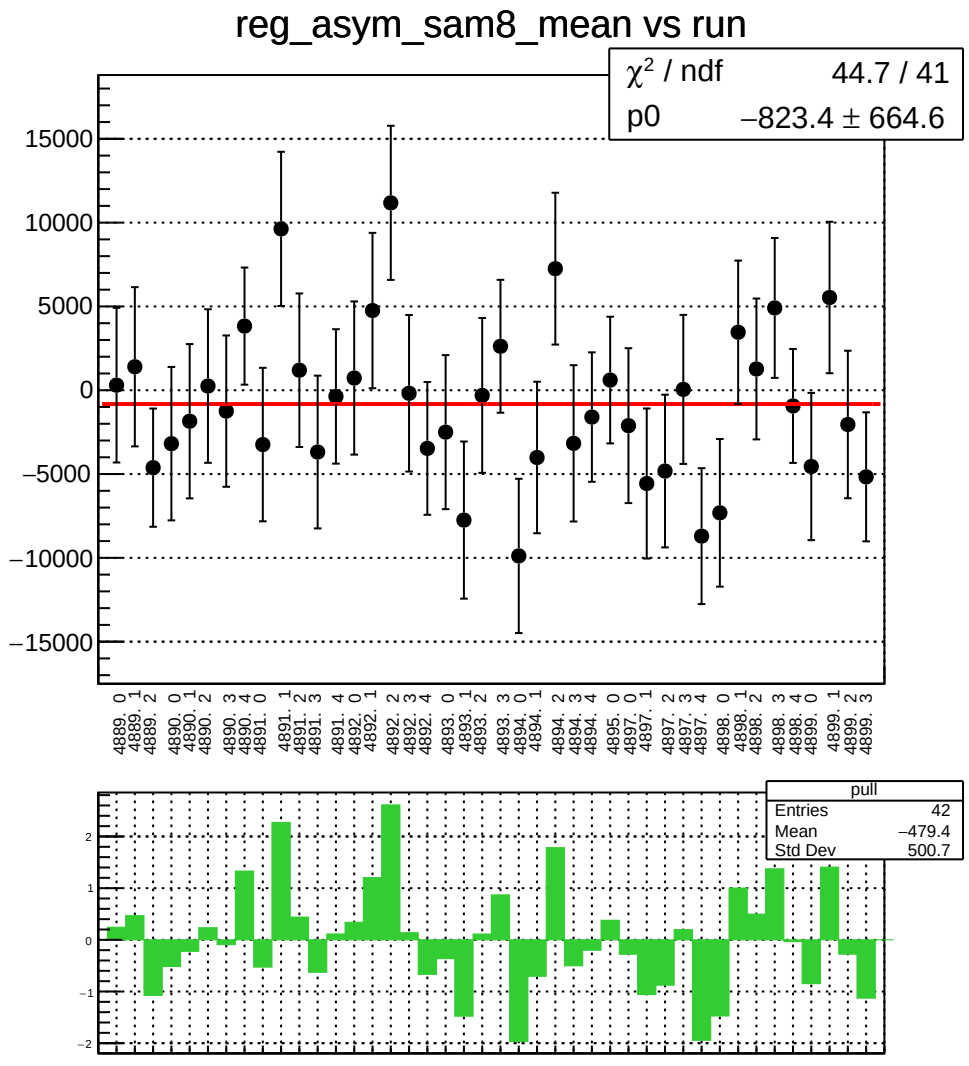

pull1D
Entries 42
Mean 0.03564
Std Dev 1.095
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

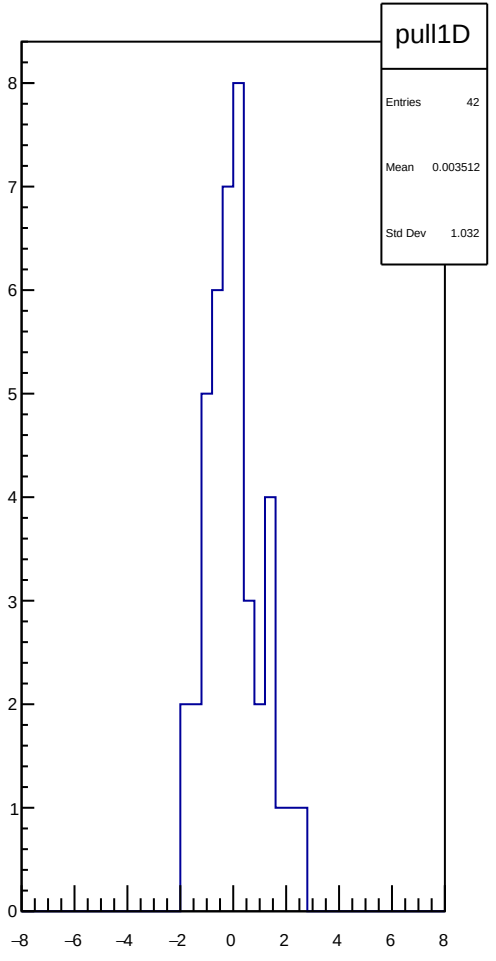

reg_asym_sam7_rms vs run
χ² / ndf 1.482e+04 / 41
p0 319.4 ± 0.3522
380
360
340
320
300
280
260
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

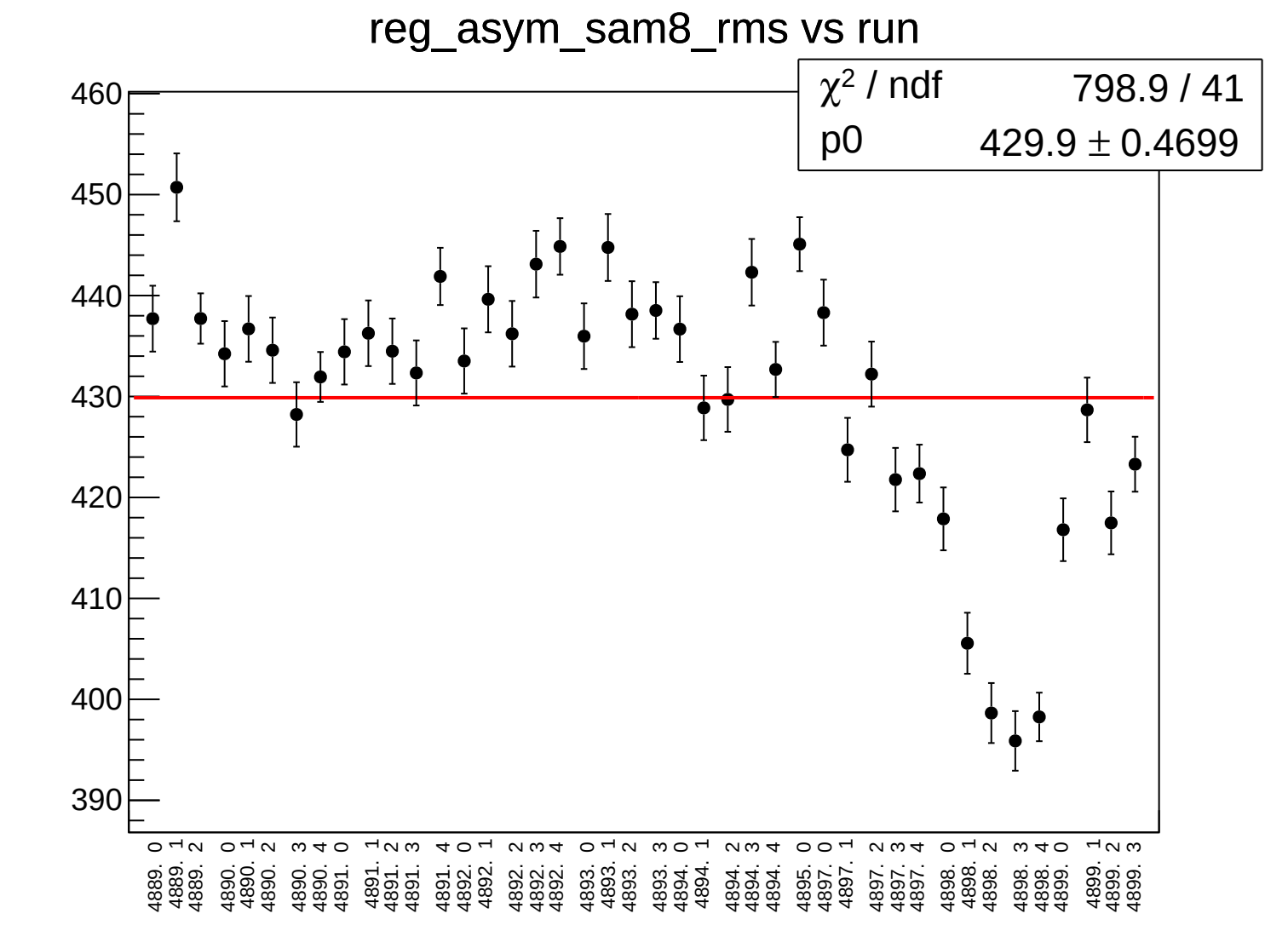

asym_sam7_correction_mean vs run
χ² / ndf 41.98 / 41
p0 2762 ± 1970
40000
20000
0
−20000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −3011
Std Dev 3034
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

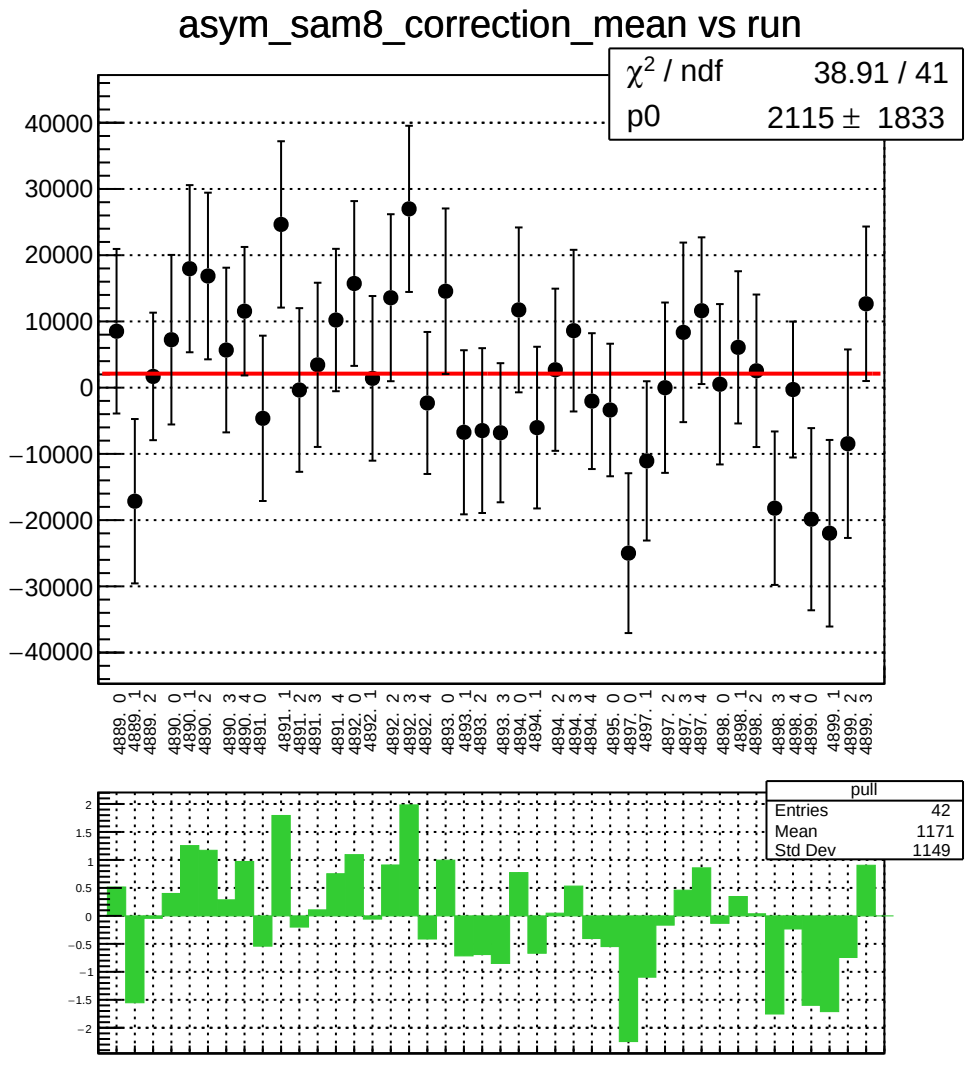

pull1D
Entries 42
Mean 0.001398
Std Dev 0.9998
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

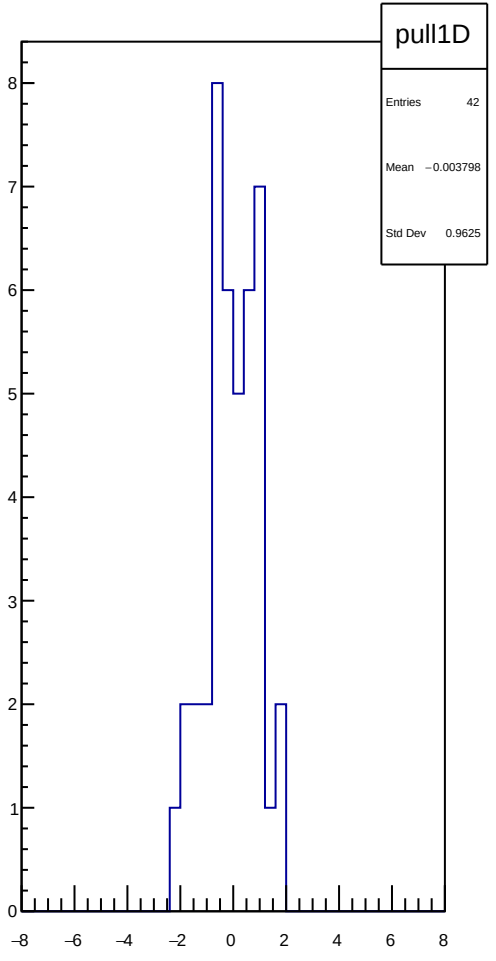

asym_sam7_correction_rms vs run
χ² / ndf 2488 / 41
p0 1273 ± 1.393
1500
1450
1400
1350
1300
1250
1200
1150
1100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

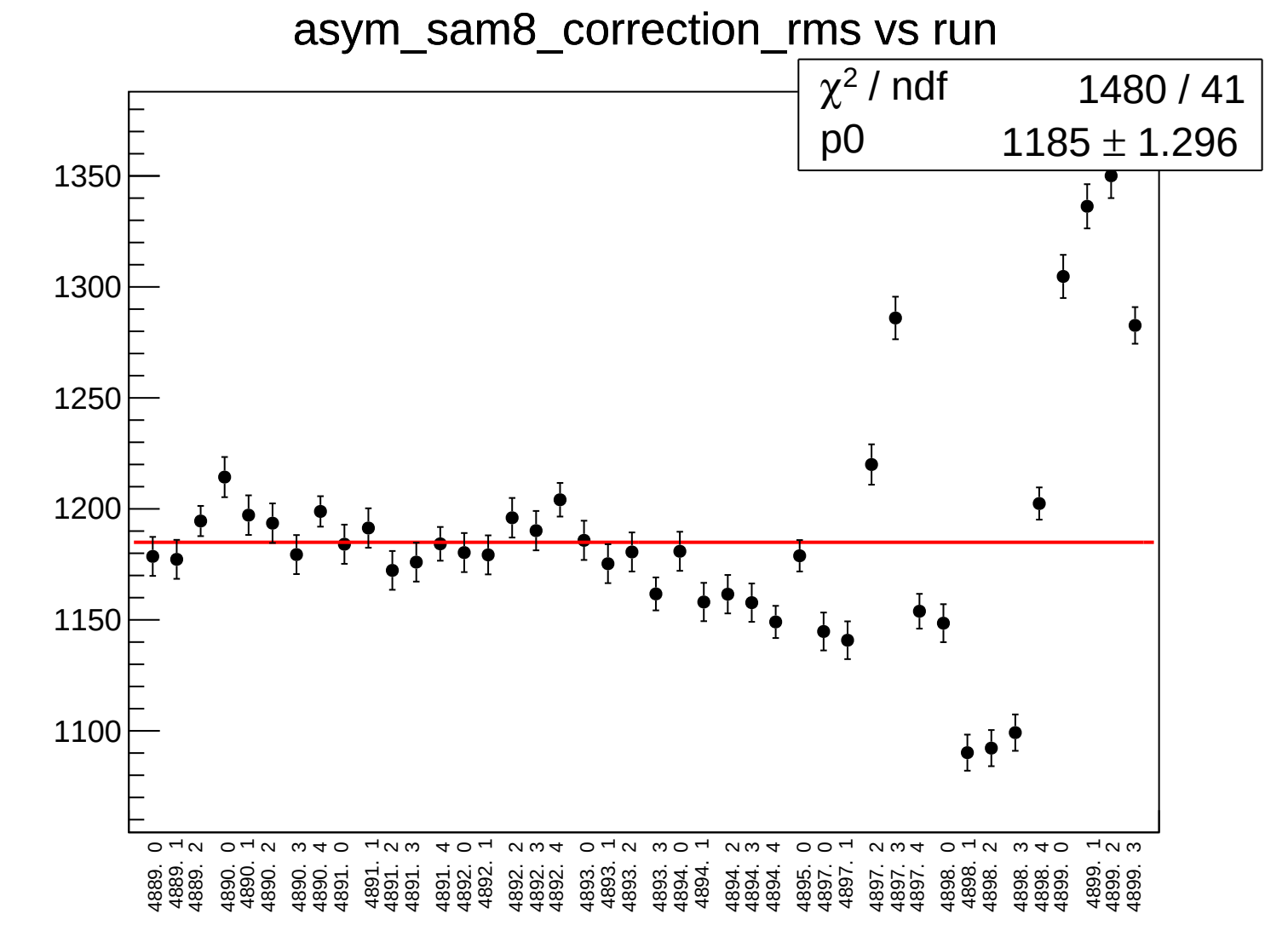

reg_asym_sam8_mean vs run
χ² / ndf 44.7 / 41
p0 −823.4 ± 664.6
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −479.4
Std Dev 500.7
2
1
0
−1
−2

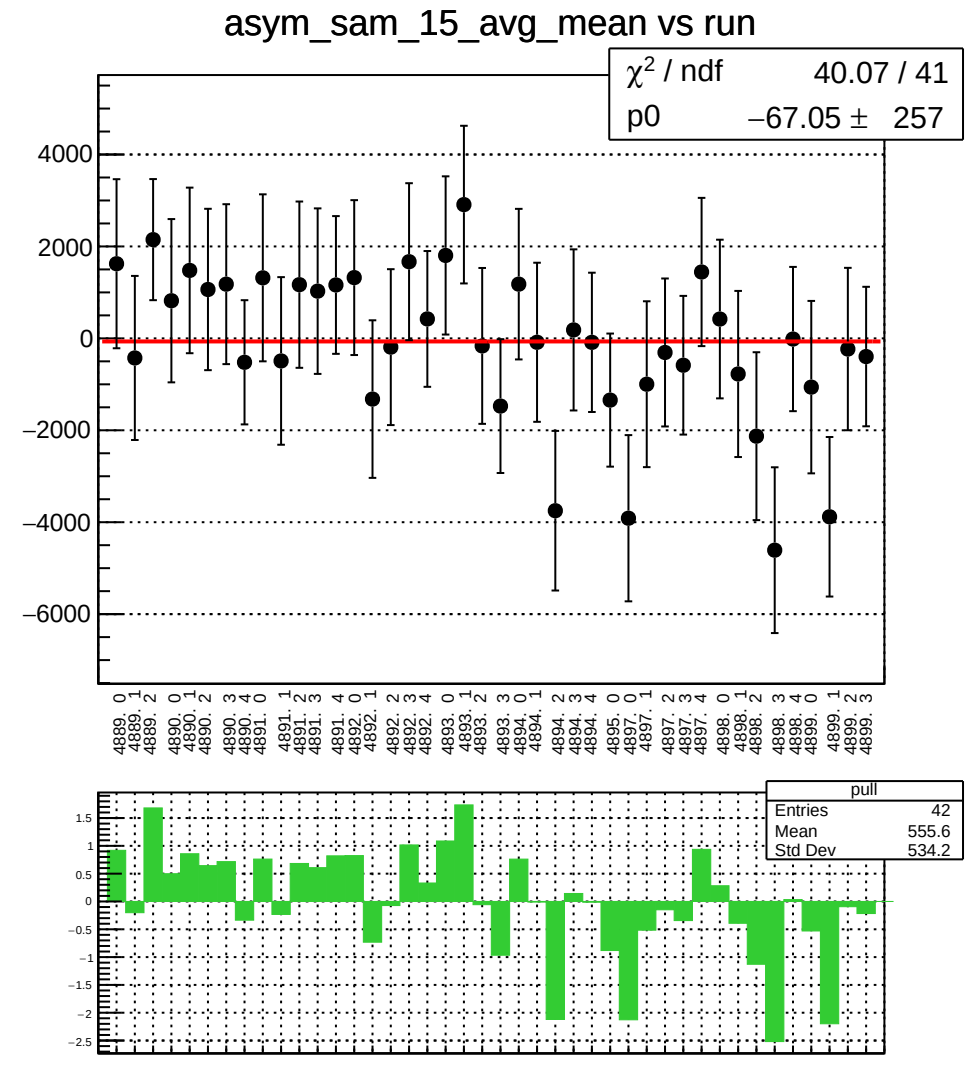

pull1D
Entries 42
Mean 0.003512
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

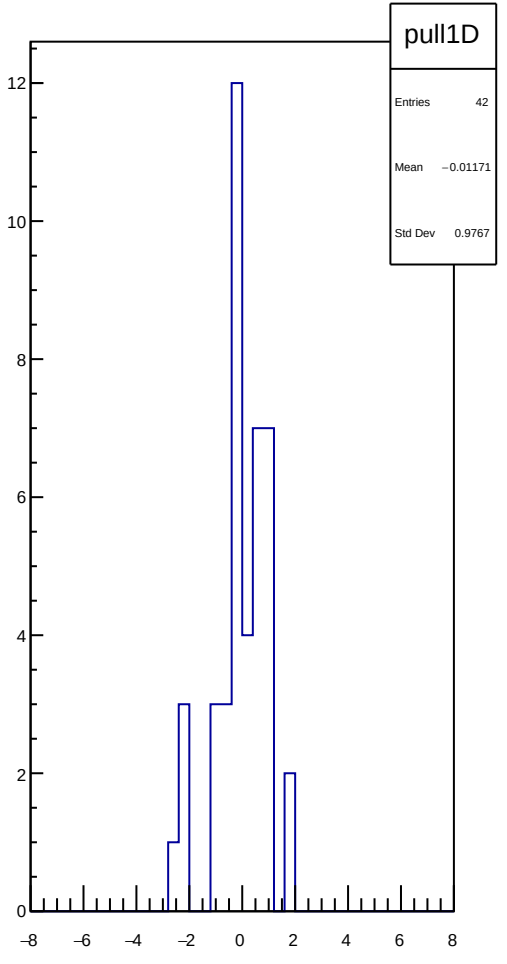

reg_asym_sam8_rms vs run
χ² / ndf 798.9 / 41
p0 429.9 ± 0.4699
460
450
440
430
420
410
400
390
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

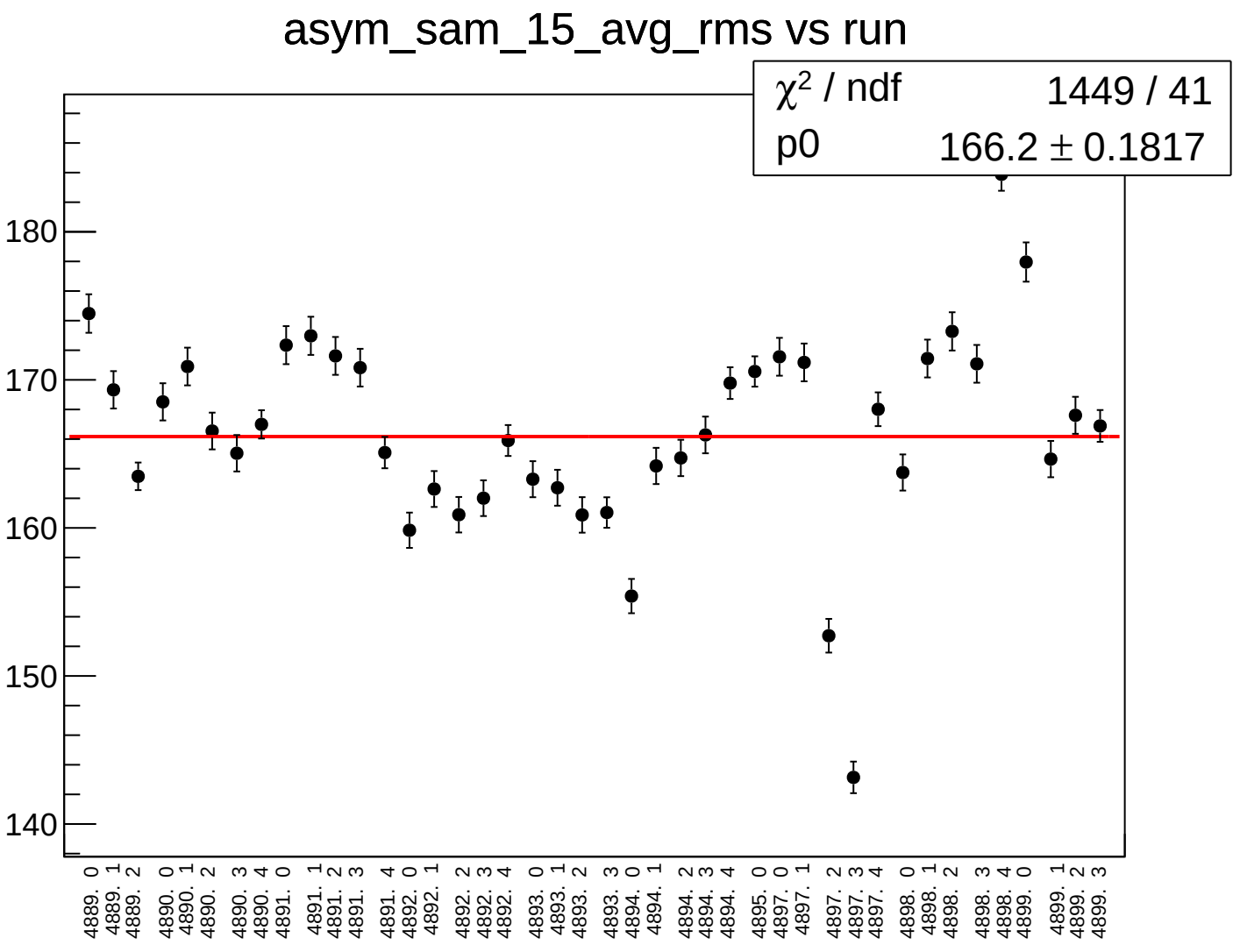

asym_sam8_correction_mean vs run
χ² / ndf 38.91 / 41
p0 2115 ± 1833
pull
Entries 42
Mean 1171
Std Dev 1149

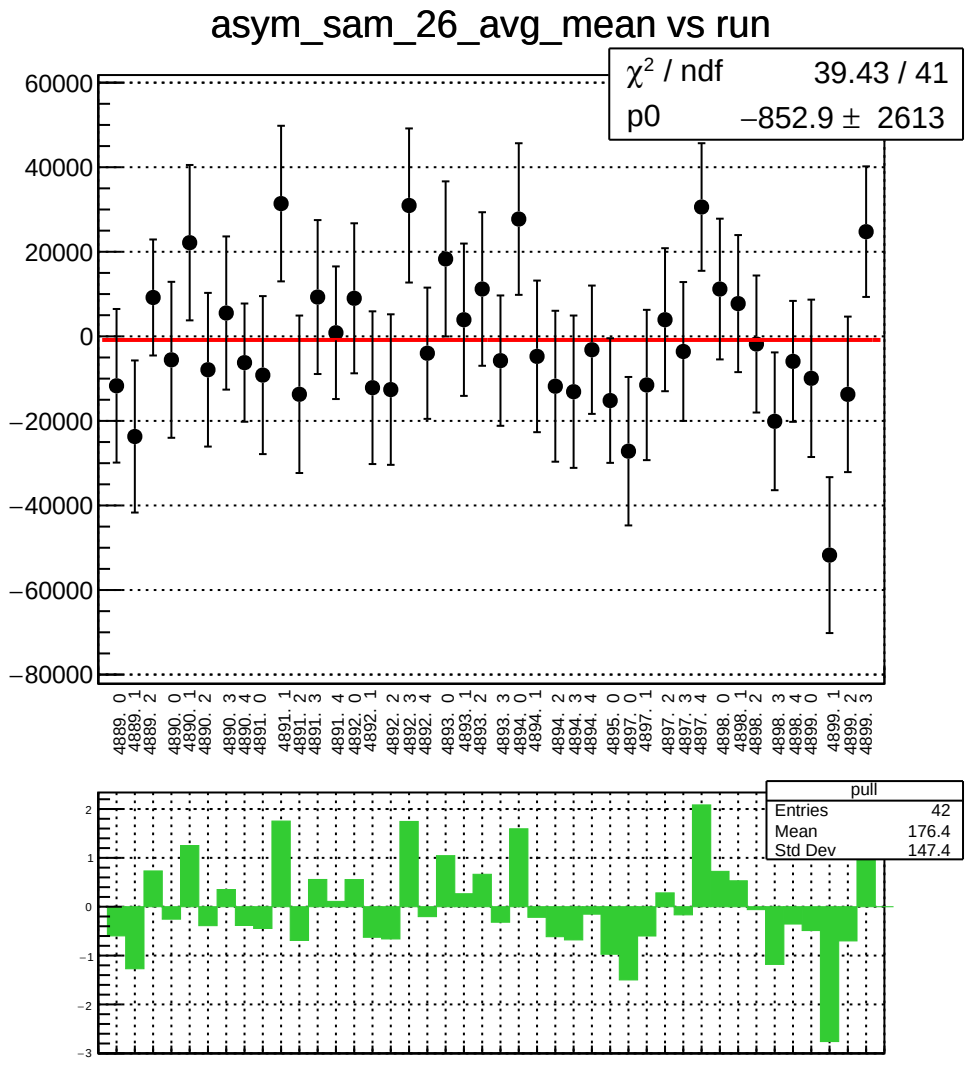

pull1D
Entries 42
Mean −0.003798
Std Dev 0.9625

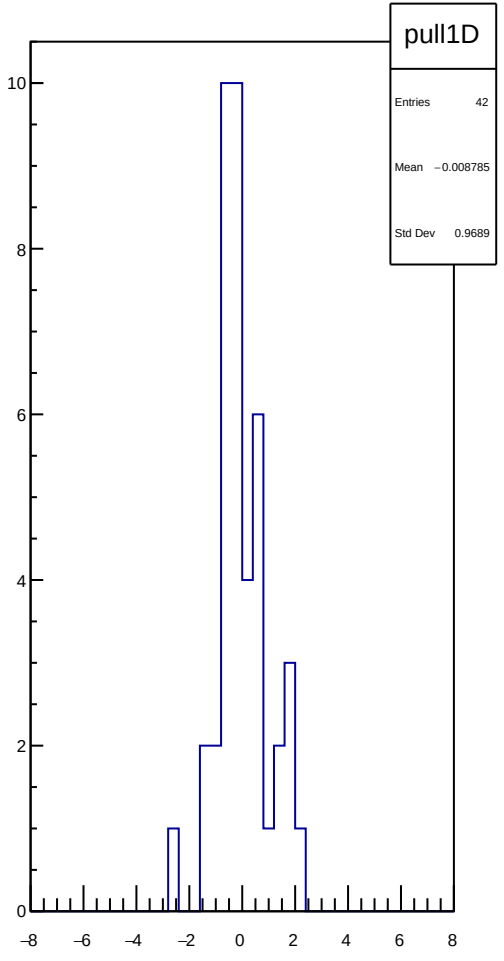

asym_sam8_correction_rms vs run
χ² / ndf 1480 / 41
p0 1185 ± 1.296
1350
1300
1250
1200
1150
1100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

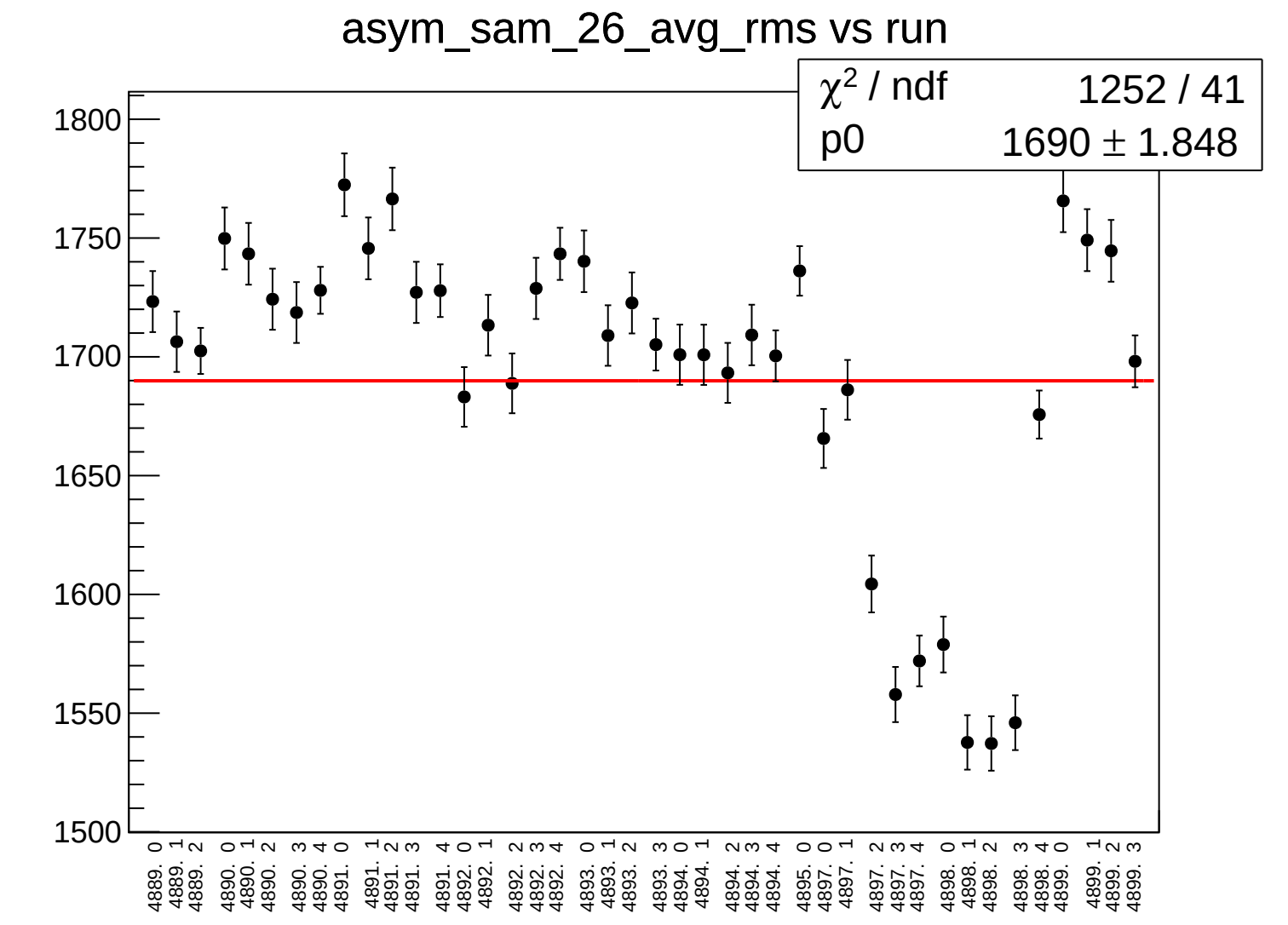

asym_sam_15_avg_mean vs run
χ² / ndf 40.07 / 41
p0 −67.05 ± 257
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 555.6
Std Dev 534.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

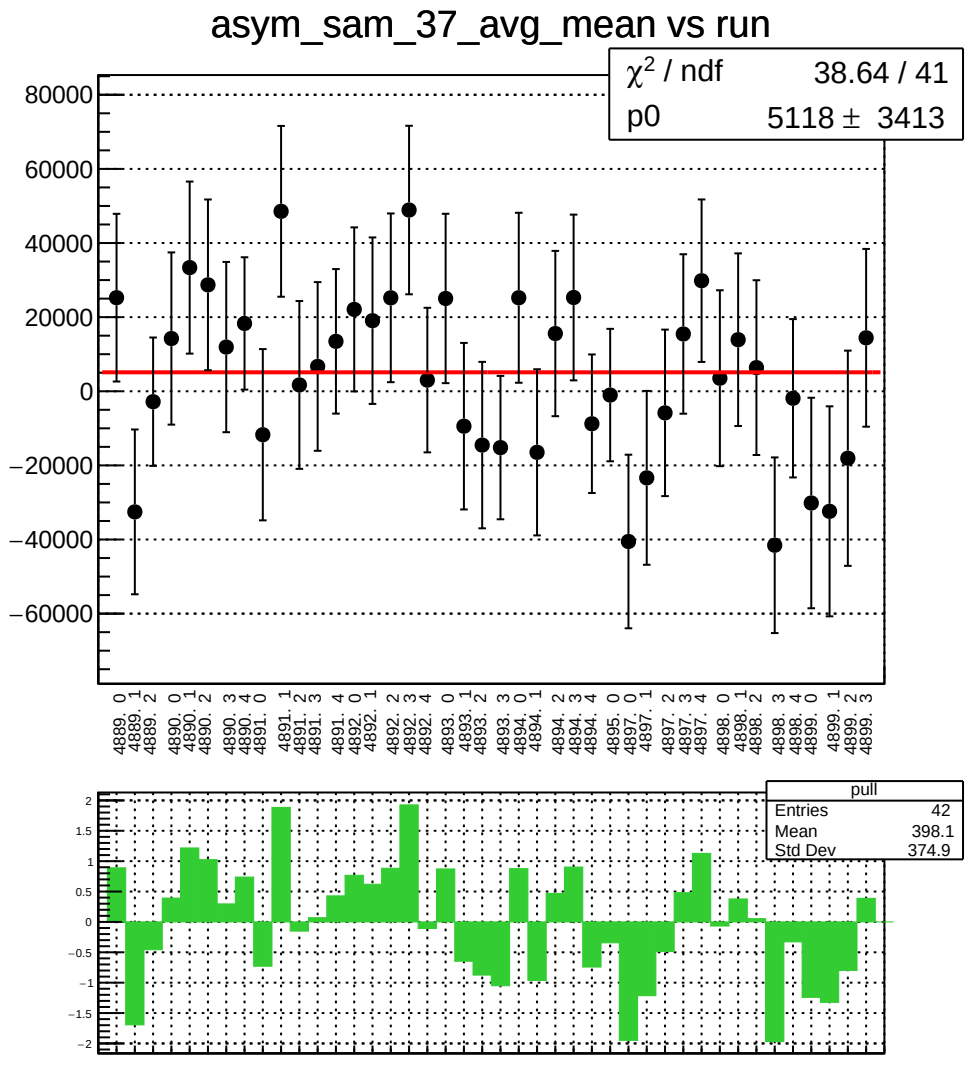

pull1D
Entries 42
Mean −0.01171
Std Dev 0.9767
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

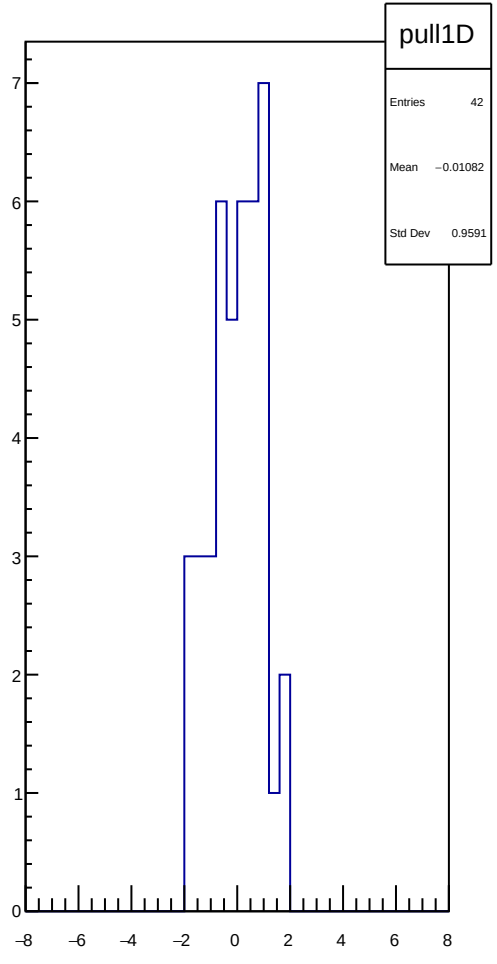

asym_sam_15_avg_rms vs run
χ² / ndf 1449 / 41
p0 166.2 ± 0.1817
180
170
160
150
140
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

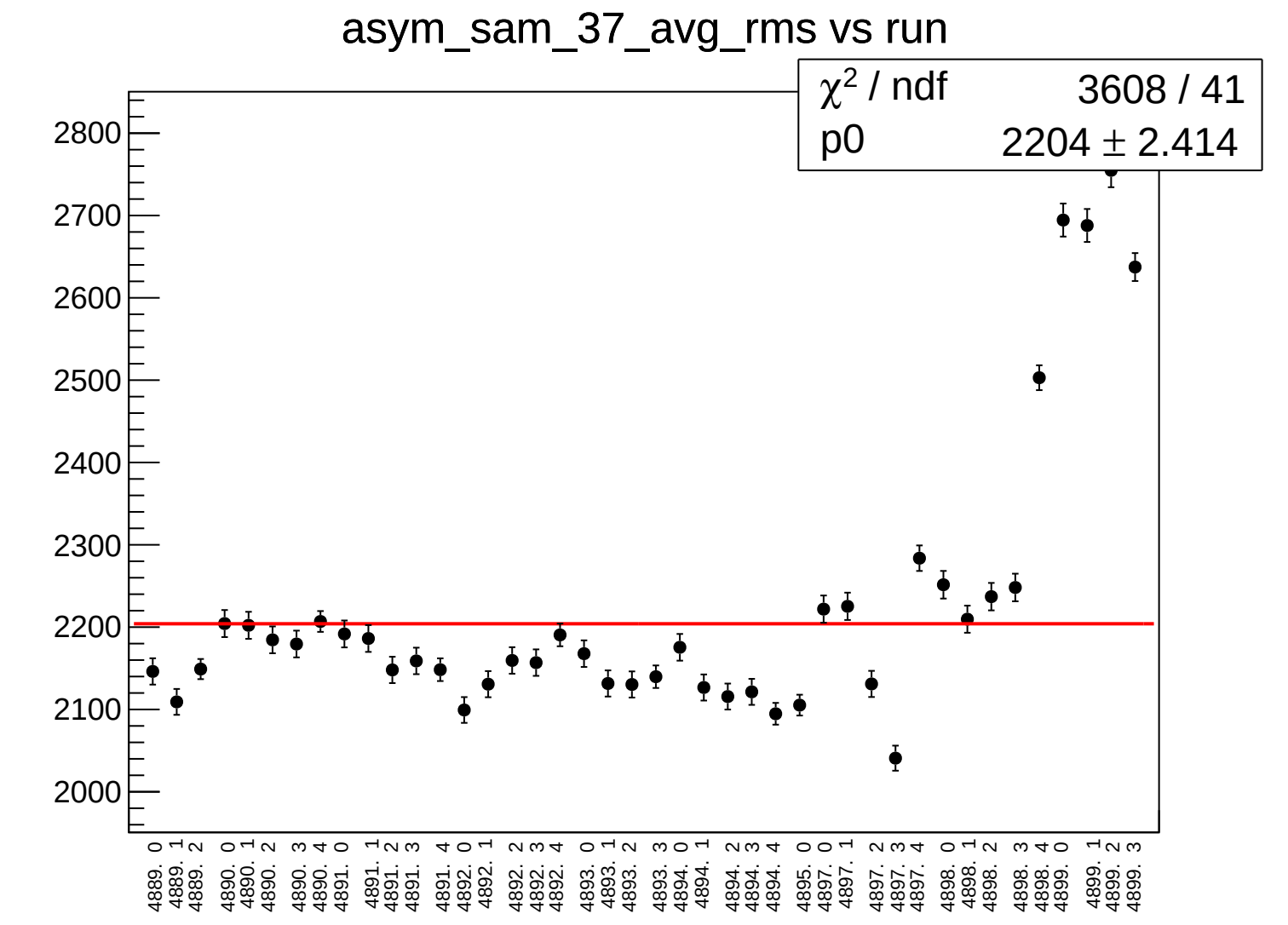

asym_sam_26_avg_mean vs run
χ² / ndf 39.43 / 41
p0 −852.9 ± 2613
pull
Entries 42
Mean 176.4
Std Dev 147.4

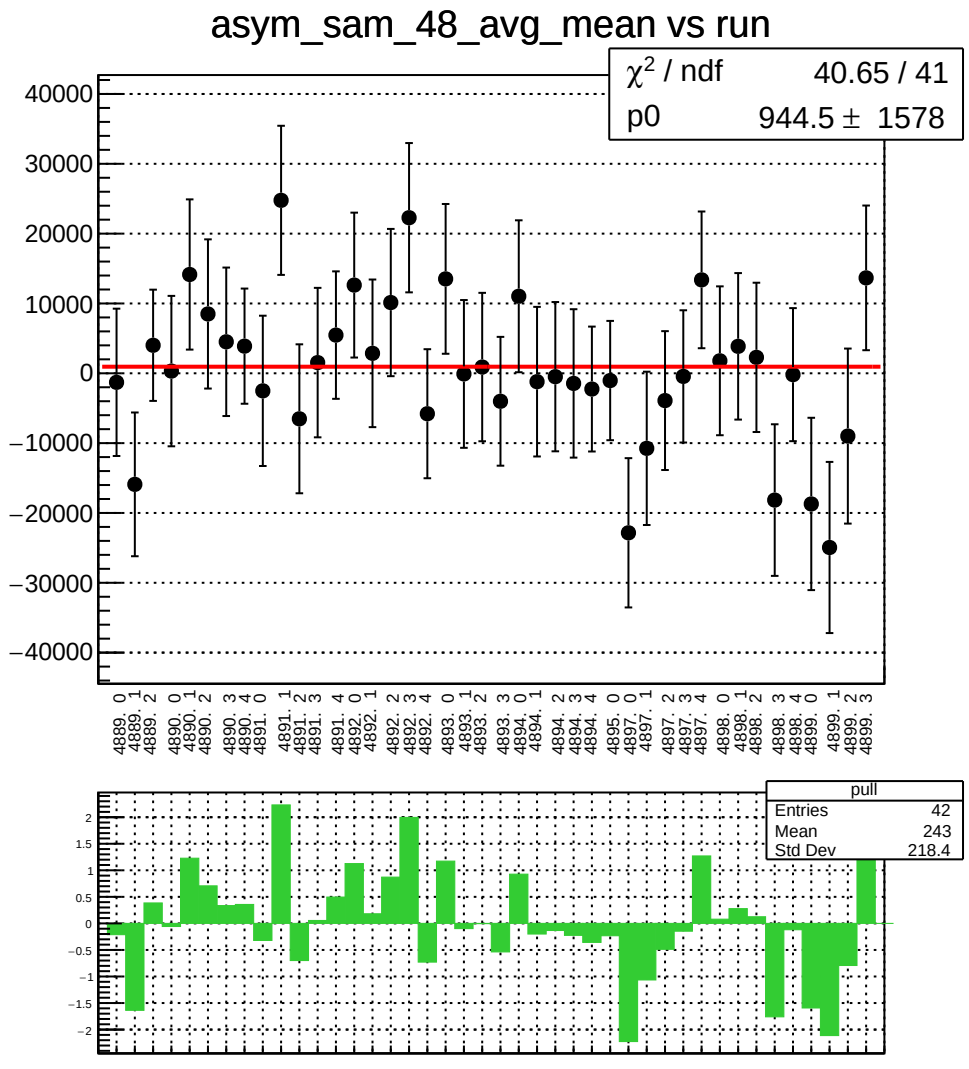

pull1D
Entries 42
Mean −0.008785
Std Dev 0.9689

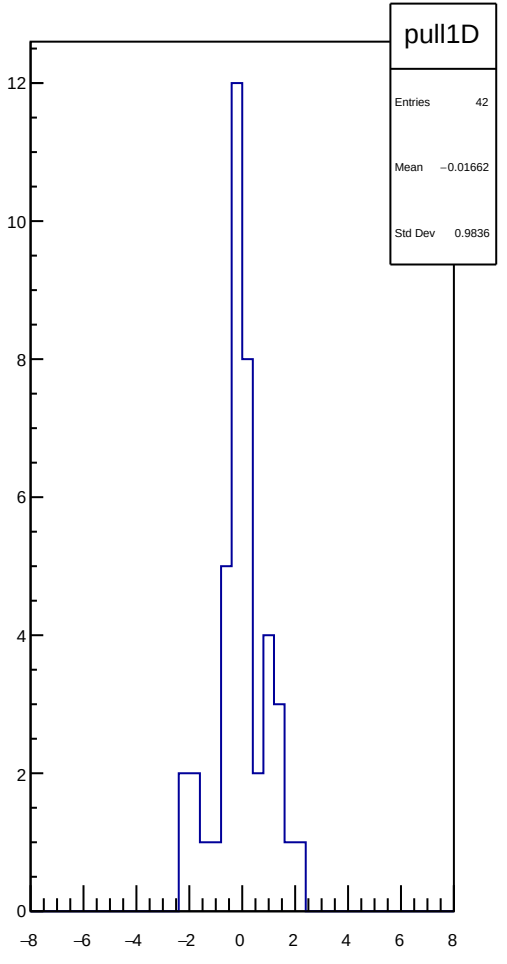

asym_sam_26_avg_rms vs run
χ² / ndf 1252 / 41
p0 1690 ± 1.848
1800
1750
1700
1650
1600
1550
1500
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

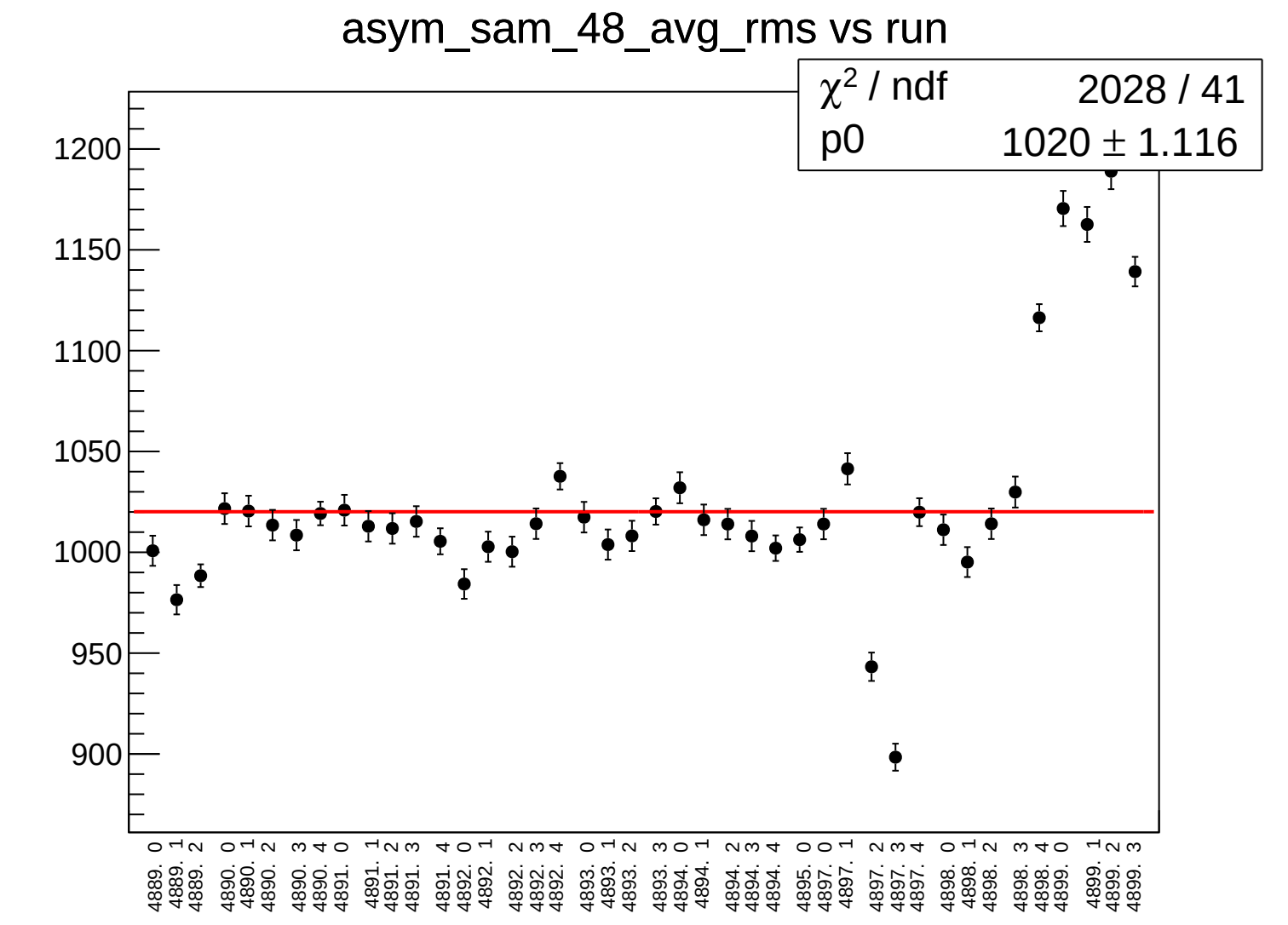

asym_sam_37_avg_mean vs run
χ² / ndf 38.64 / 41
p0 5118 ± 3413
80000
60000
40000
20000
0
−20000
−40000
−60000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 398.1
Std Dev 374.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

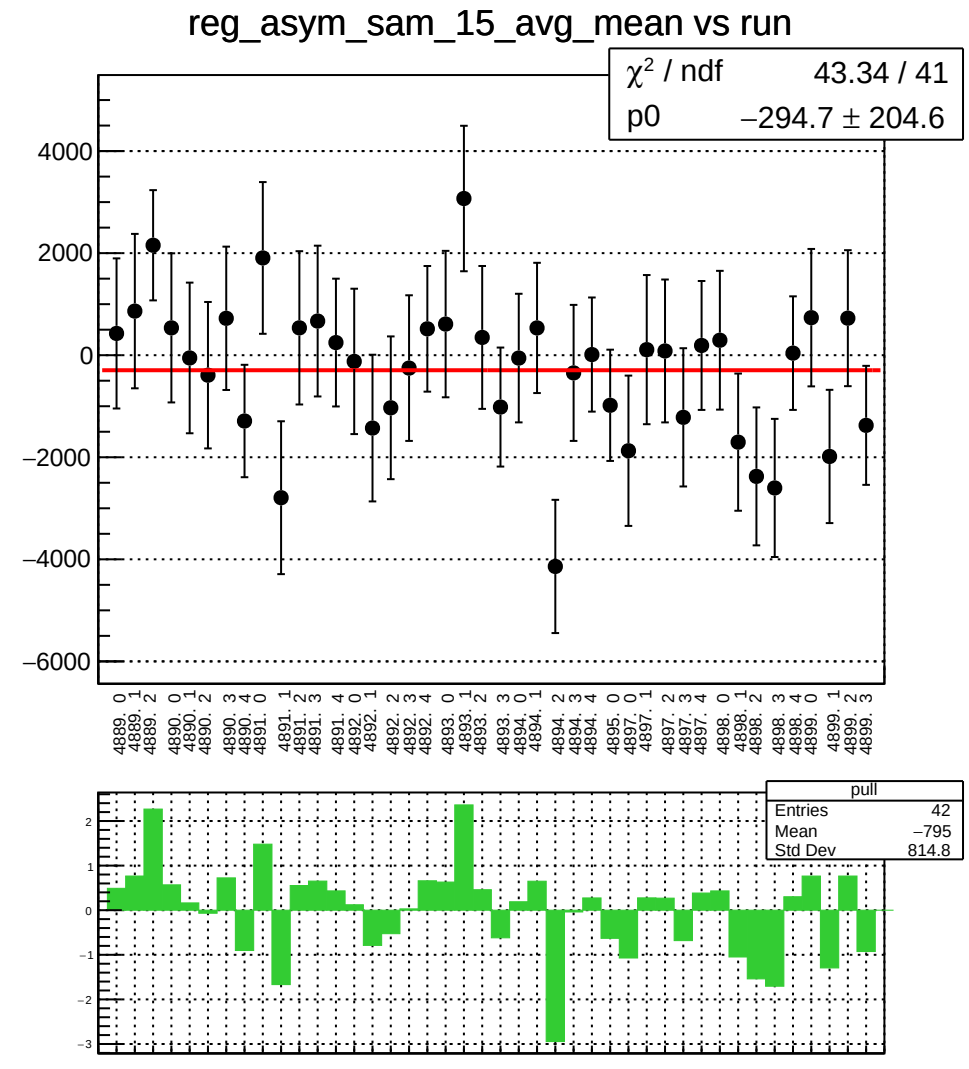

pull1D
Entries 42
Mean −0.01082
Std Dev 0.9591
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

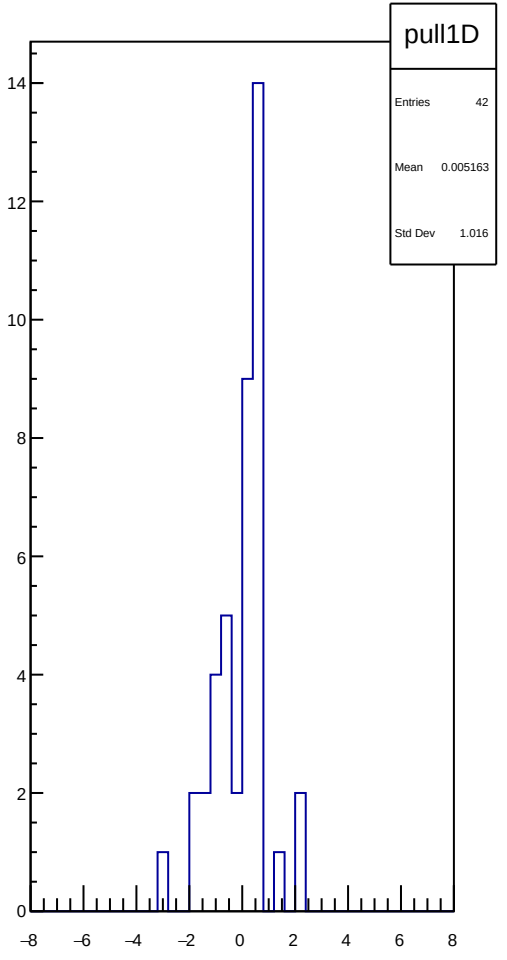

asym_sam_37_avg_rms vs run
χ² / ndf 3608 / 41
p0 2204 ± 2.414
2800
2700
2600
2500
2400
2300
2200
2100
2000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

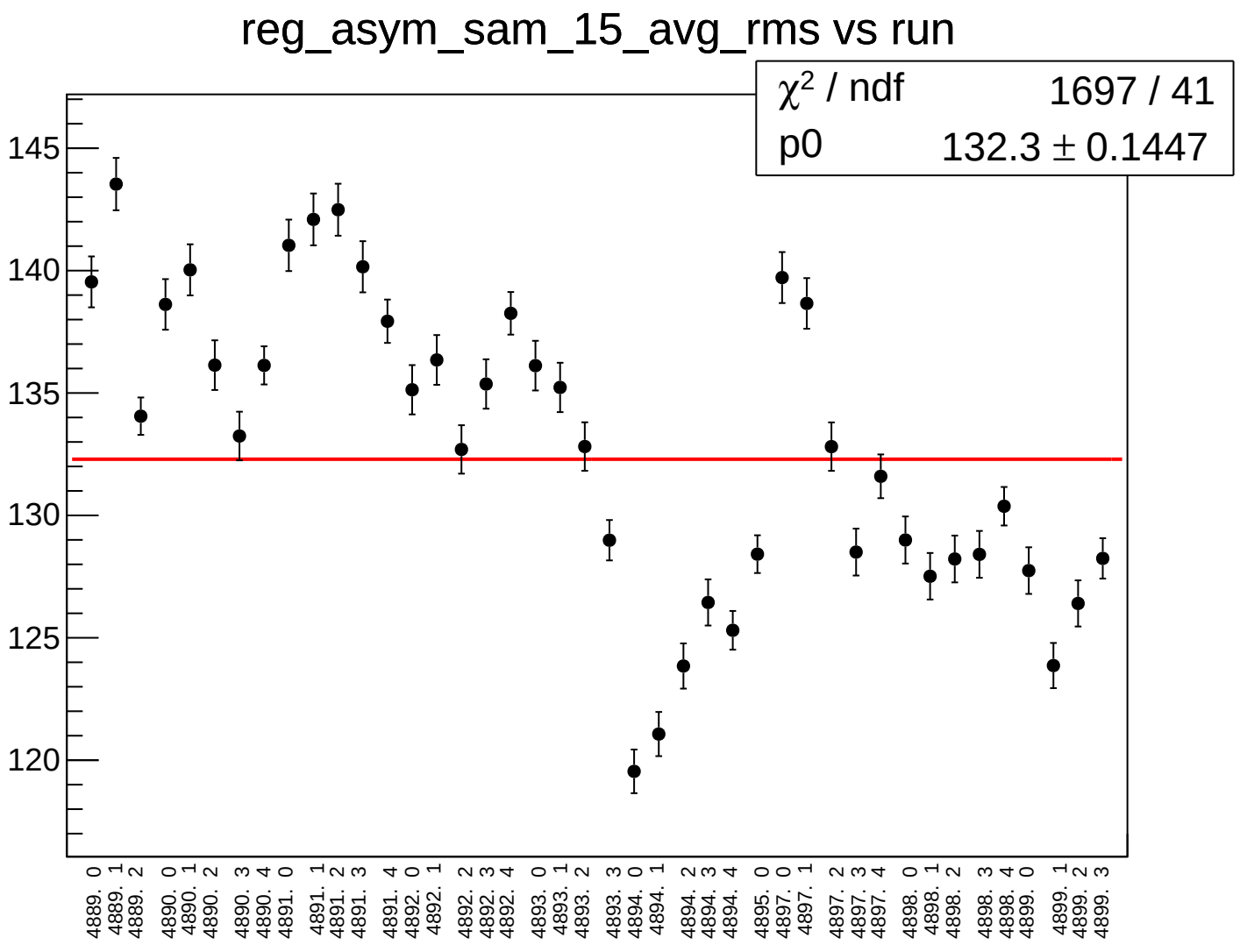

asym_sam_48_avg_mean vs run
χ² / ndf 40.65 / 41
p0 944.5 ± 1578
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 243
Std Dev 218.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

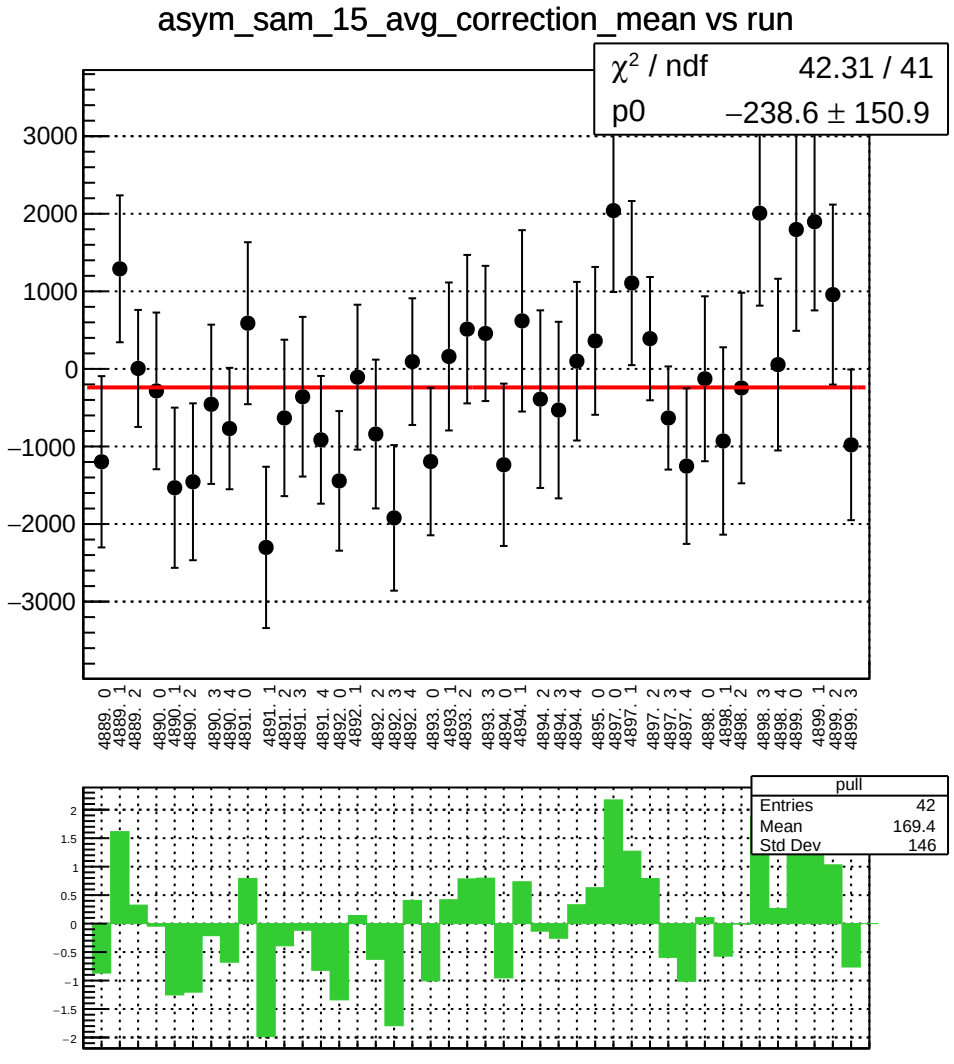

pull1D
Entries 42
Mean −0.01662
Std Dev 0.9836
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

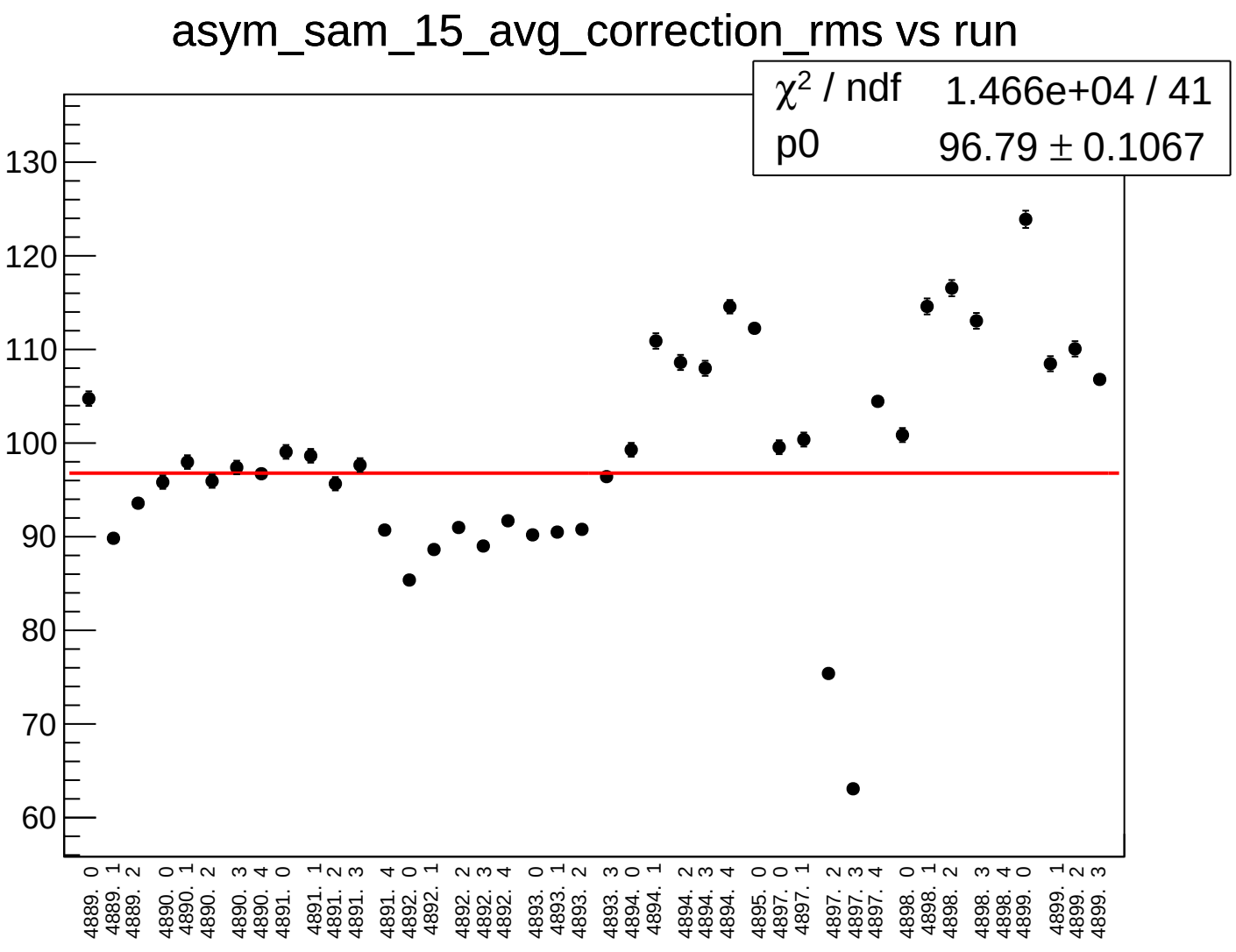

asym_sam_48_avg_rms vs run
χ² / ndf 2028 / 41
p0 1020 ± 1.116
1200
1150
1100
1050
1000
950
900
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

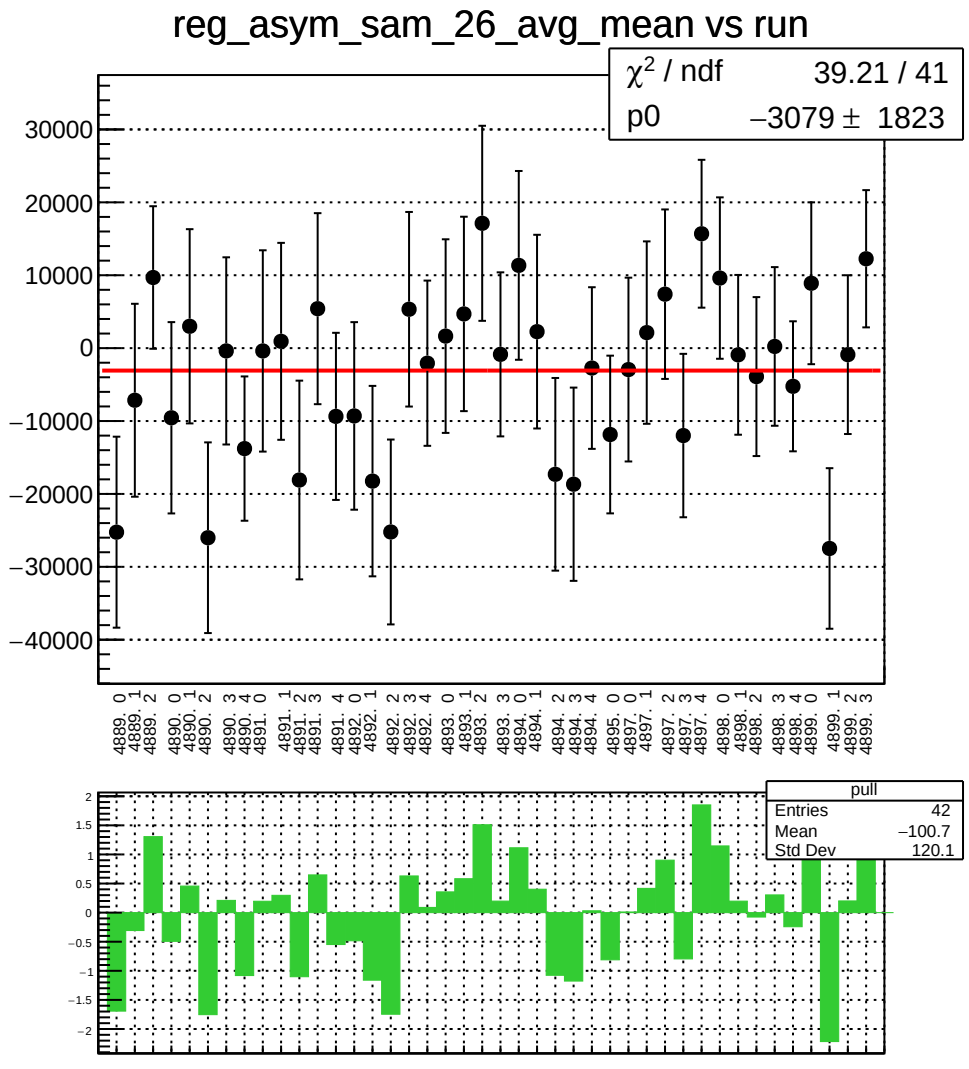

reg_asym_sam_15_avg_mean vs run
χ² / ndf 43.34 / 41
p0 −294.7 ± 204.6
4000
2000
0
−2000
−4000
−6000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −795
Std Dev 814.8
2
1
0
−1
−2
−3

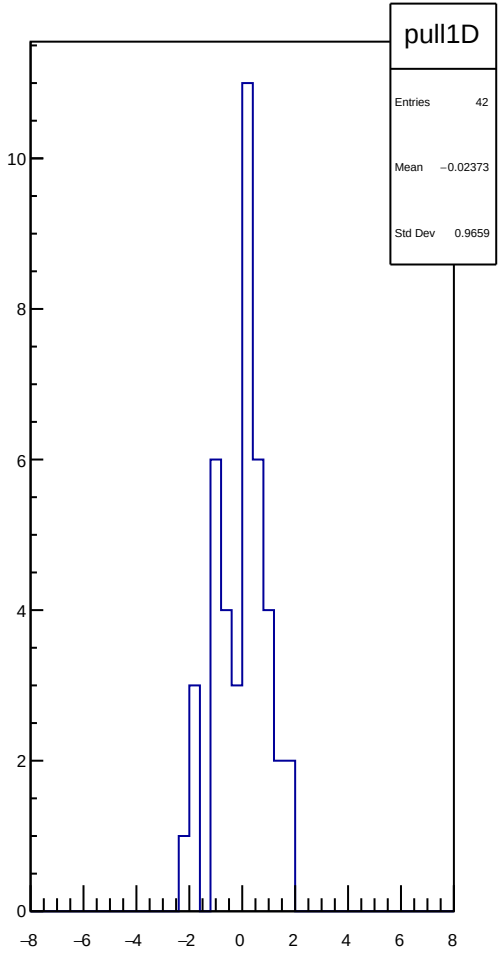

pull1D
Entries 42
Mean 0.005163
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

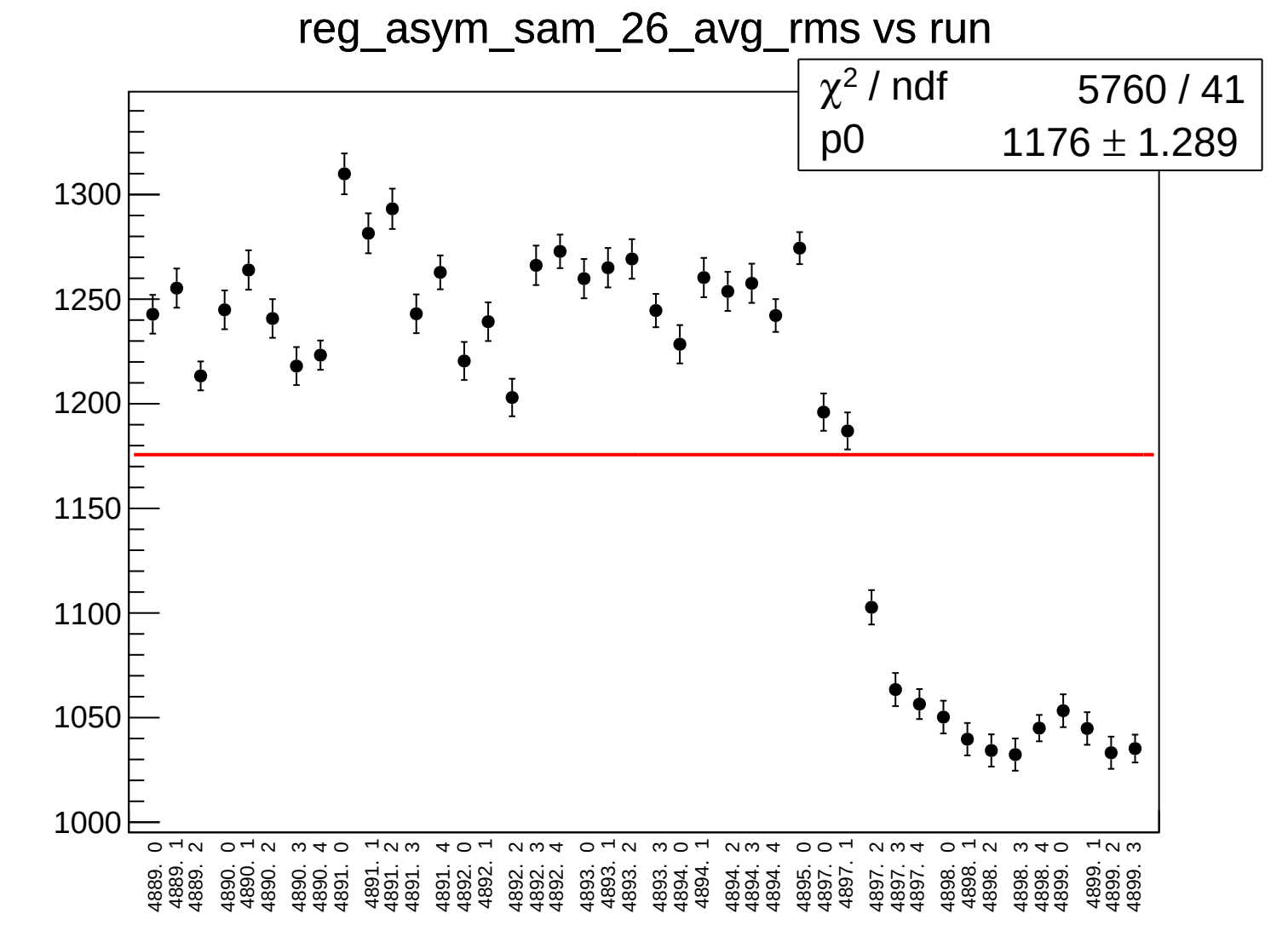

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1697 / 41
p0 132.3 ± 0.1447
145
140
135
130
125
120
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

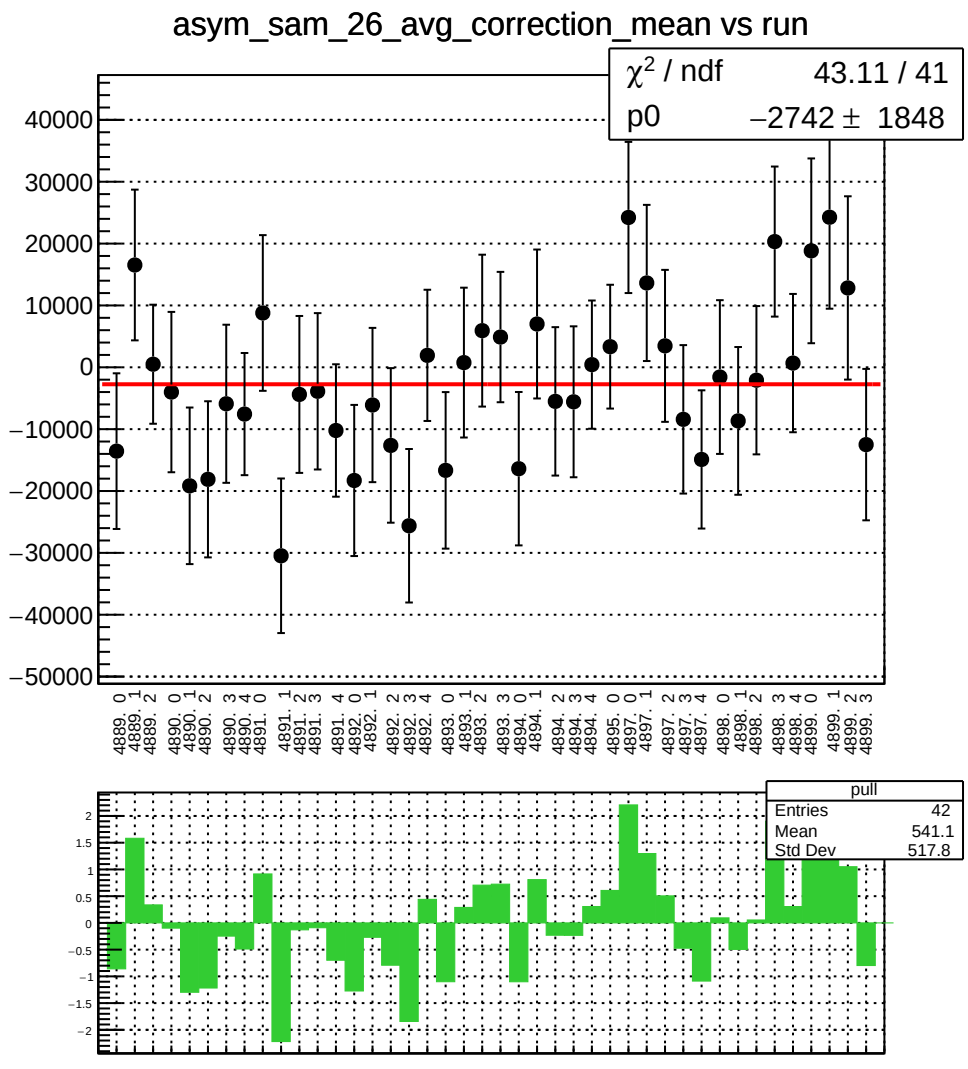

asym_sam_15_avg_correction_mean vs run
χ² / ndf 42.31 / 41
p0 −238.6 ± 150.9
3000
2000
1000
0
−1000
−2000
−3000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 169.4
Std Dev 146
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.03108
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

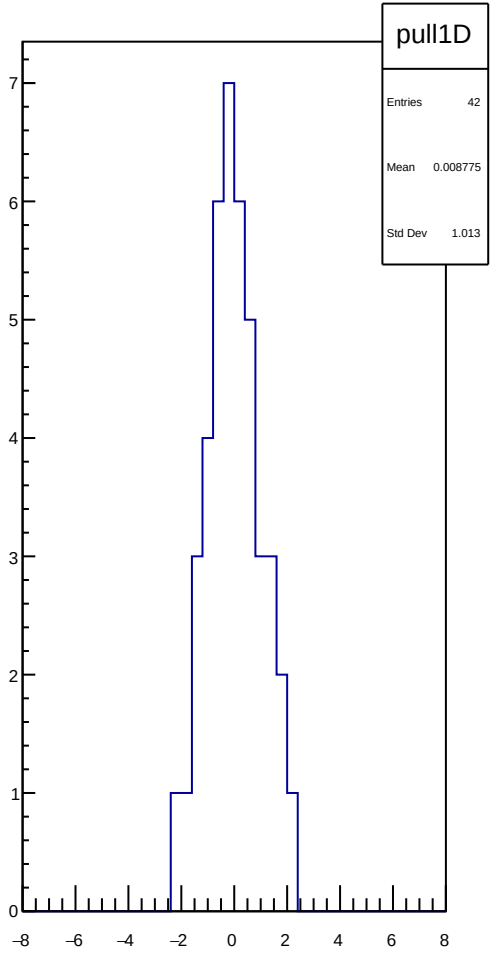

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.466e+04 / 41
p0 96.79 ± 0.1067
130
120
110
100
90
80
70
60
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

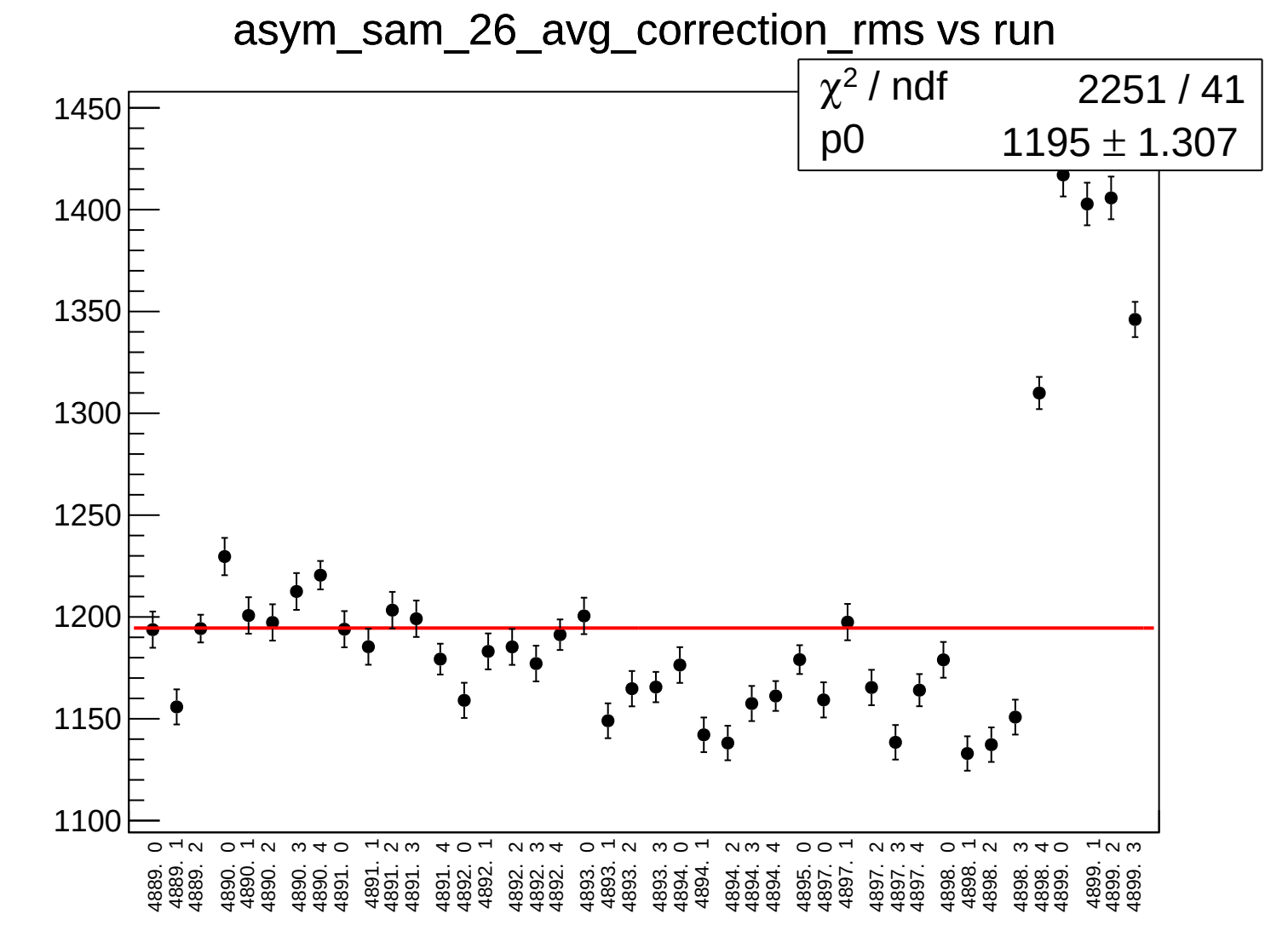

reg_asym_sam_26_avg_mean vs run
χ² / ndf 39.21 / 41
p0 −3079 ± 1823
pull
Entries 42
Mean −100.7
Std Dev 120.1

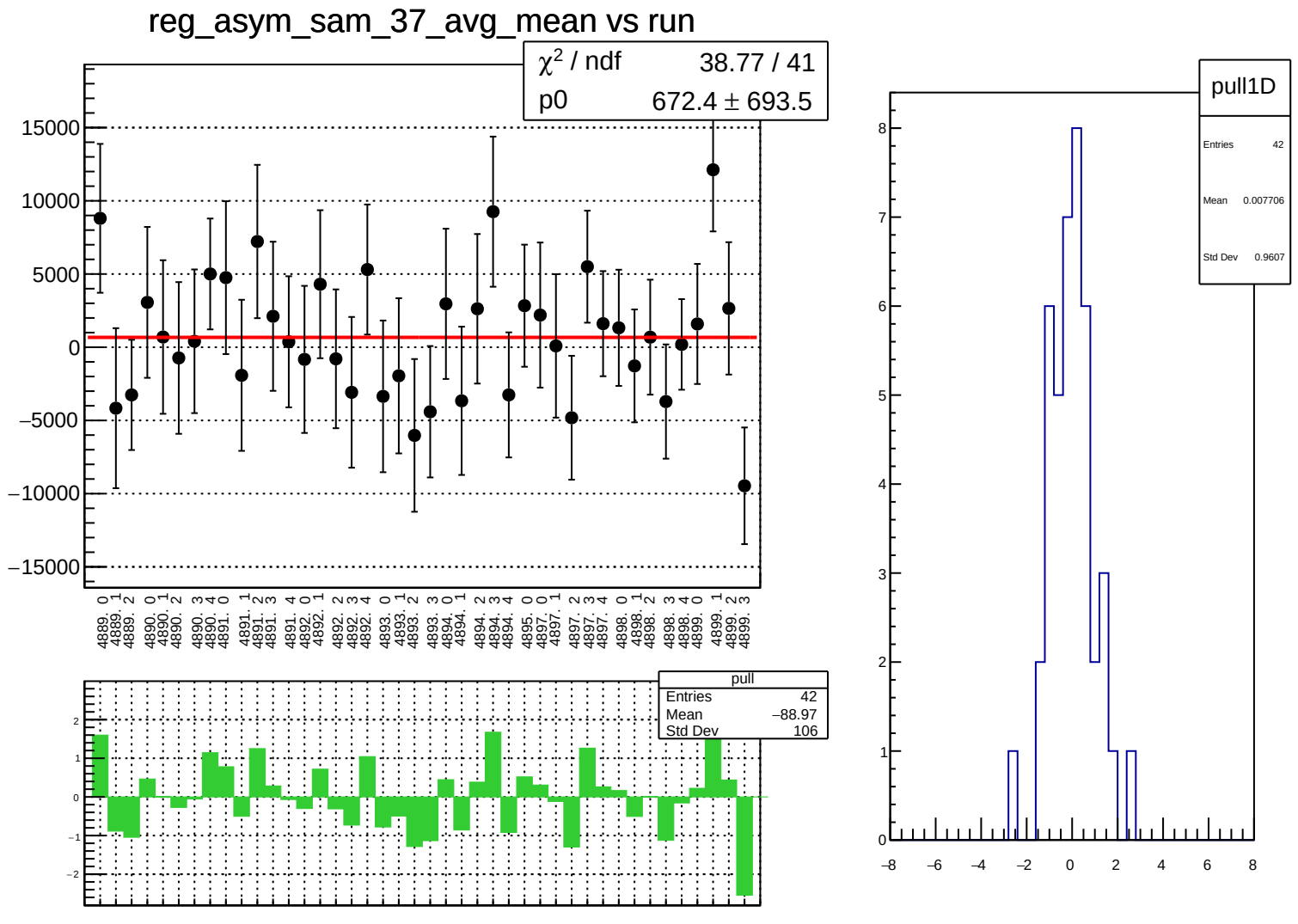

pull1D
Entries 42
Mean −0.02373
Std Dev 0.9659

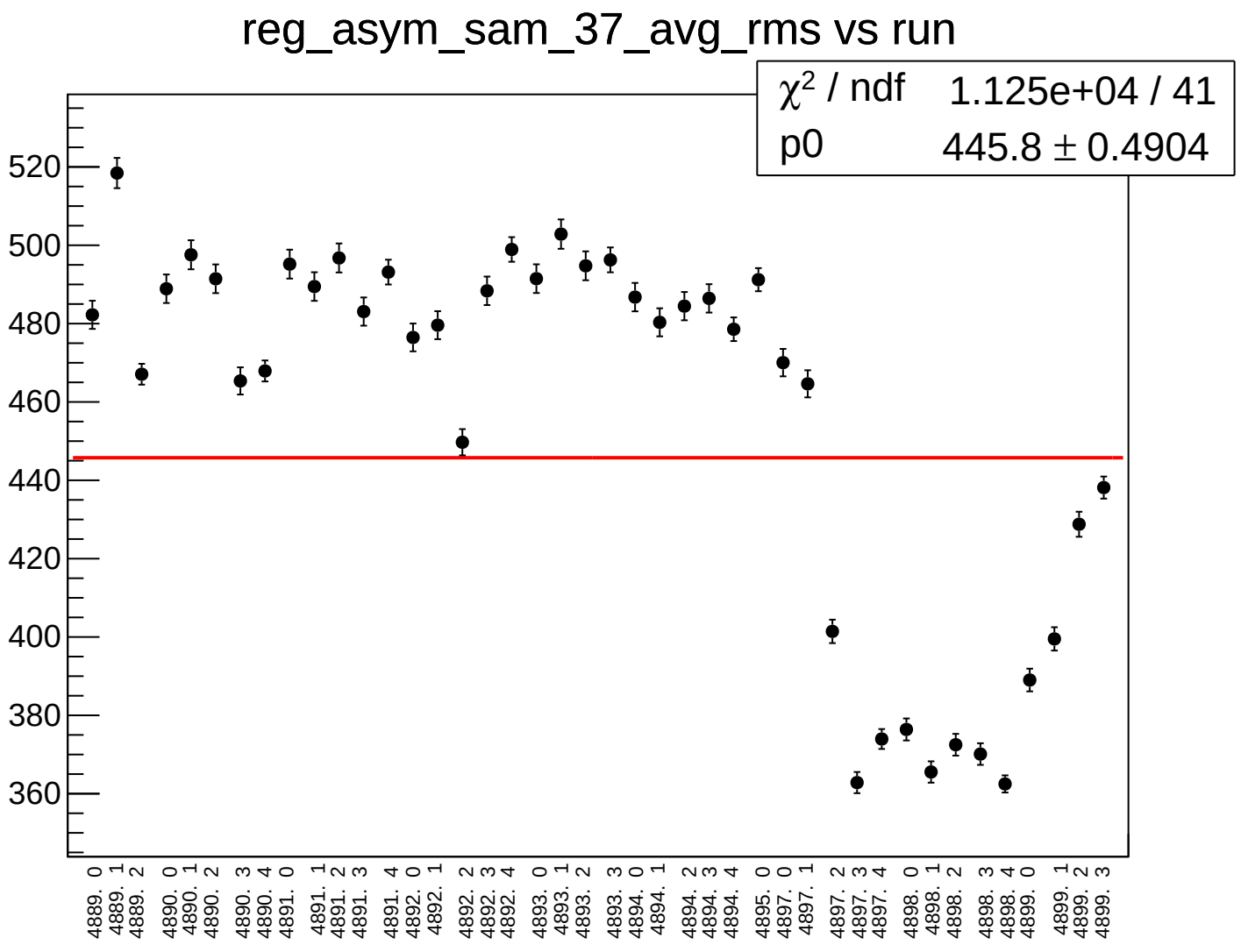

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5760 / 41
p0 1176 ± 1.289
1300
1250
1200
1150
1100
1050
1000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

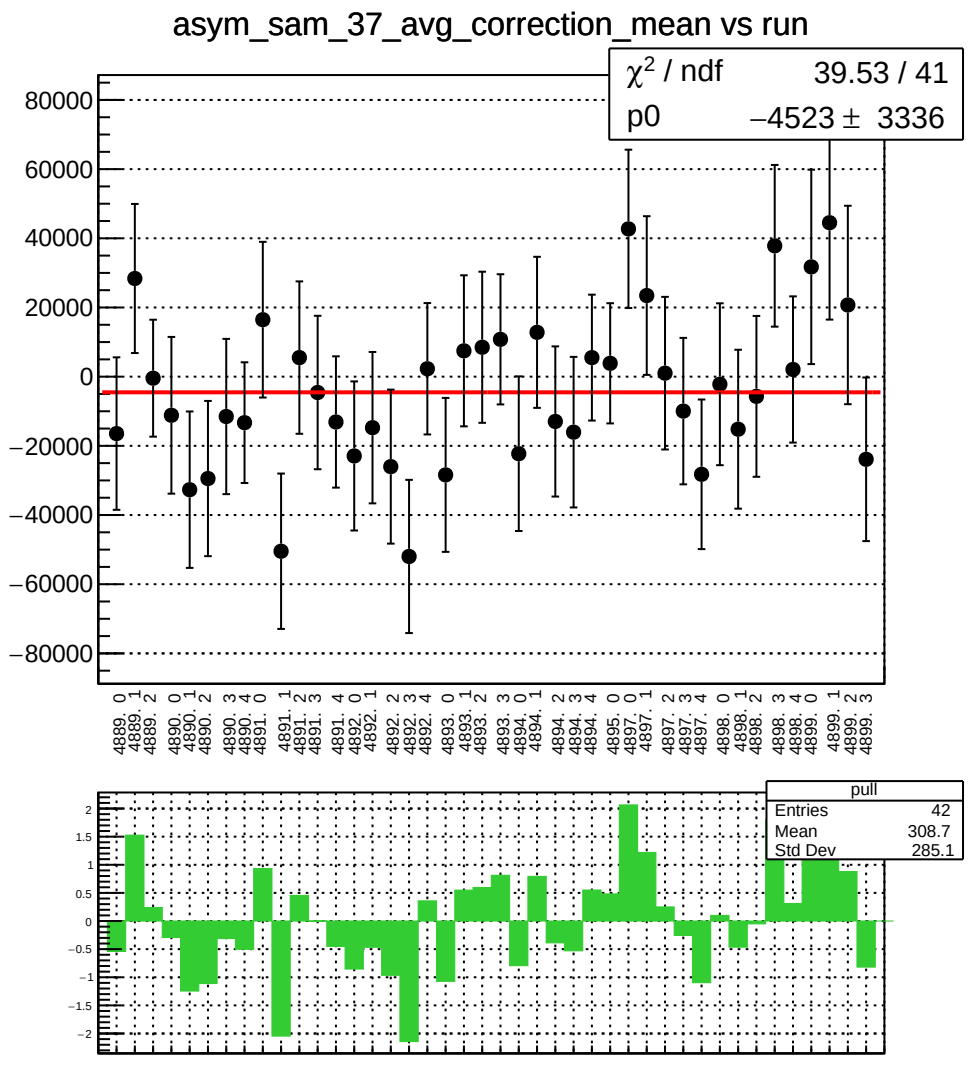

asym_sam_26_avg_correction_mean vs run
χ² / ndf 43.11 / 41
p0 −2742 ± 1848
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 541.1
Std Dev 517.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

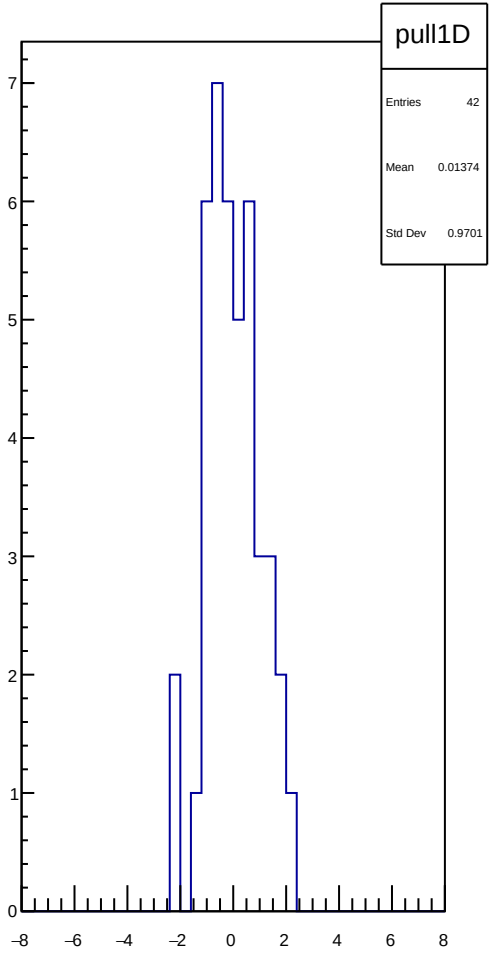

pull1D
Entries 42
Mean 0.008775
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

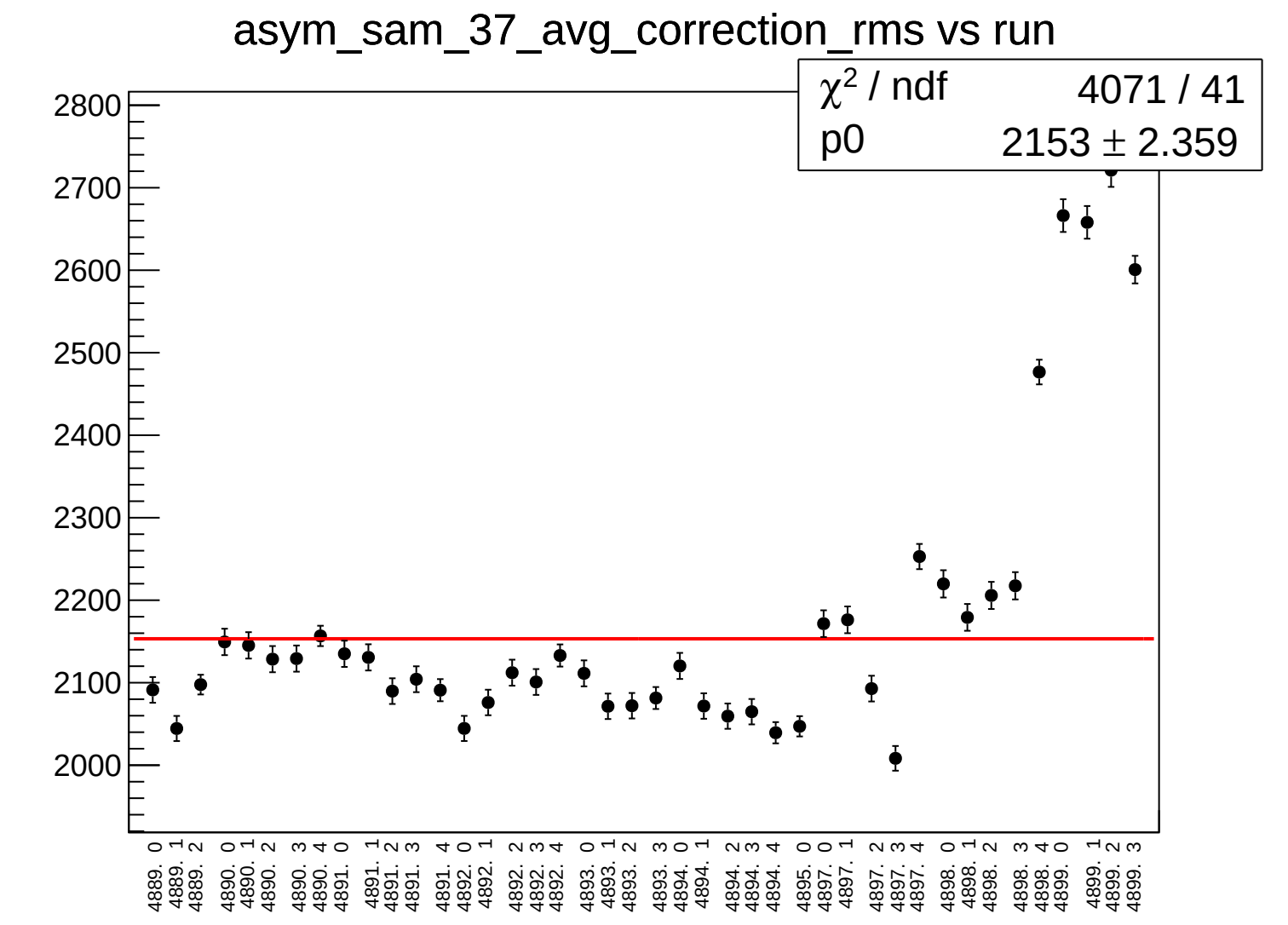

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2251 / 41
p0 1195 ± 1.307
1450
1400
1350
1300
1250
1200
1150
1100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

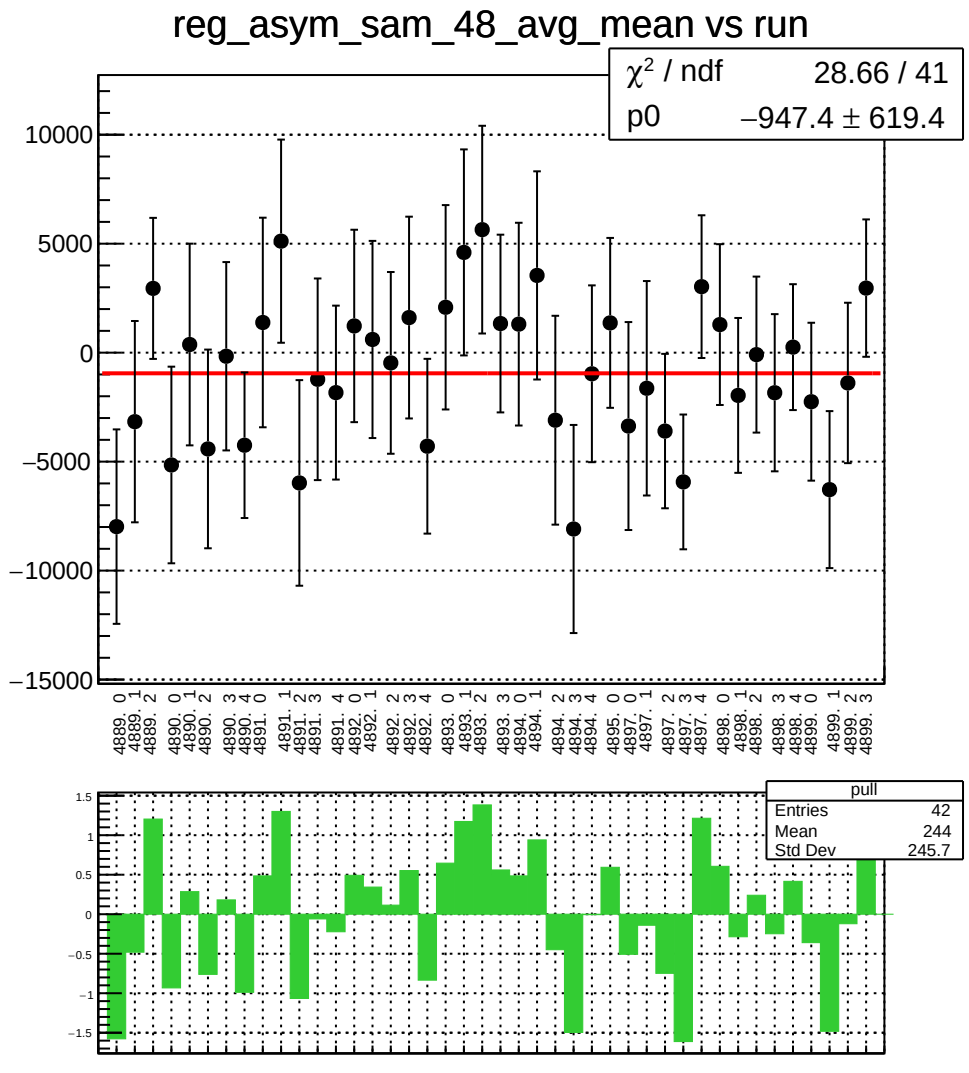

reg_asym_sam_37_avg_mean vs run
χ² / ndf 38.77 / 41
p0 672.4 ± 693.5
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −88.97
Std Dev 106
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.007706
Std Dev 0.9607
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

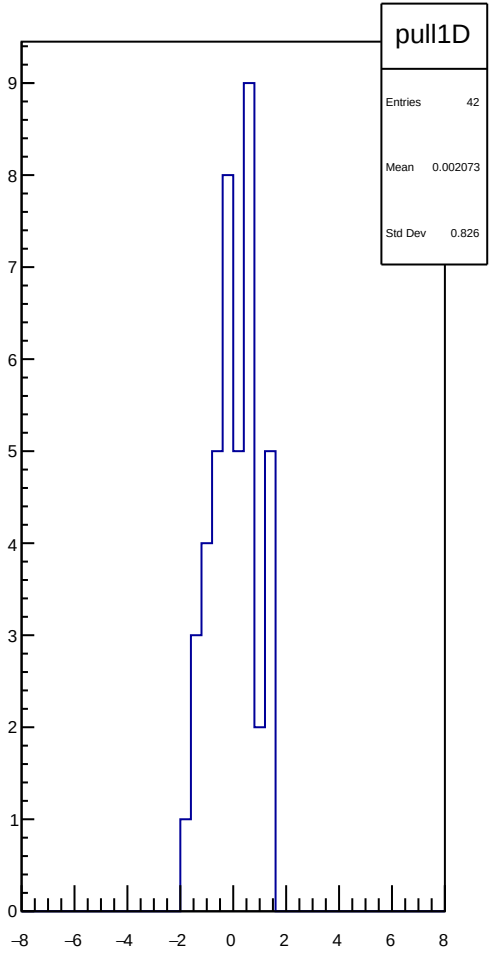

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.125e+04 / 41
p0 445.8 ± 0.4904
520
500
480
460
440
420
400
380
360
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

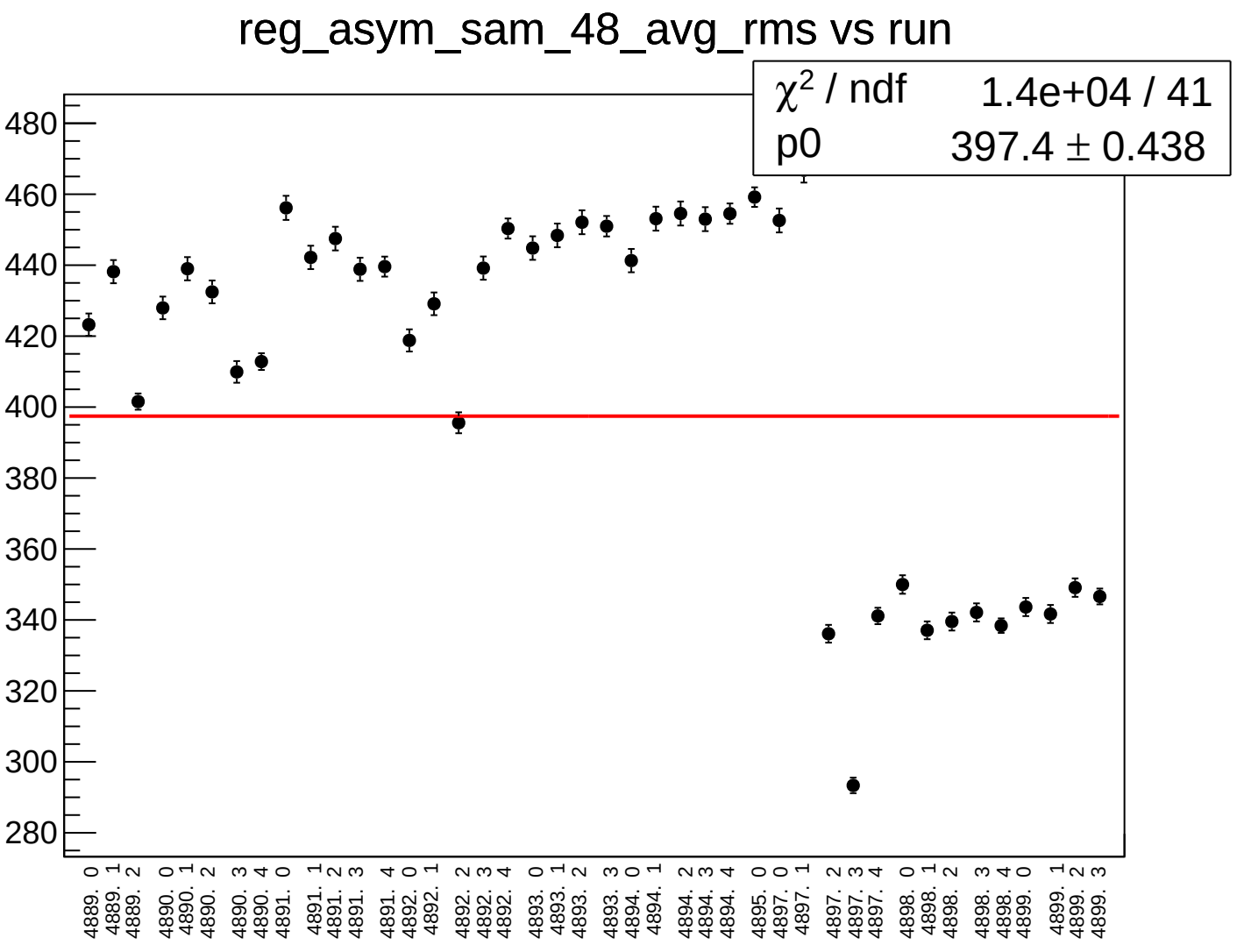

asym_sam_37_avg_correction_mean vs run
χ² / ndf 39.53 / 41
p0 −4523 ± 3336
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 308.7
Std Dev 285.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

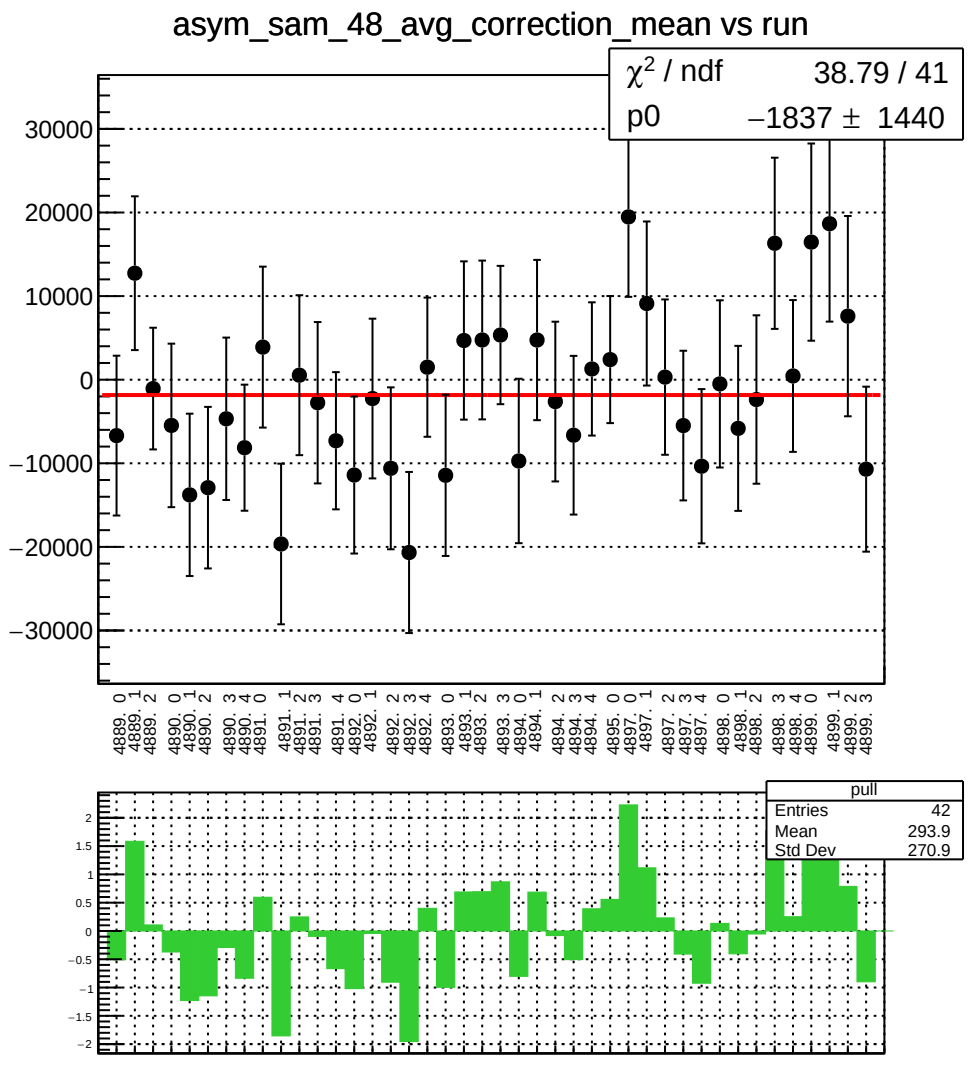

pull1D
Entries 42
Mean 0.01374
Std Dev 0.9701
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

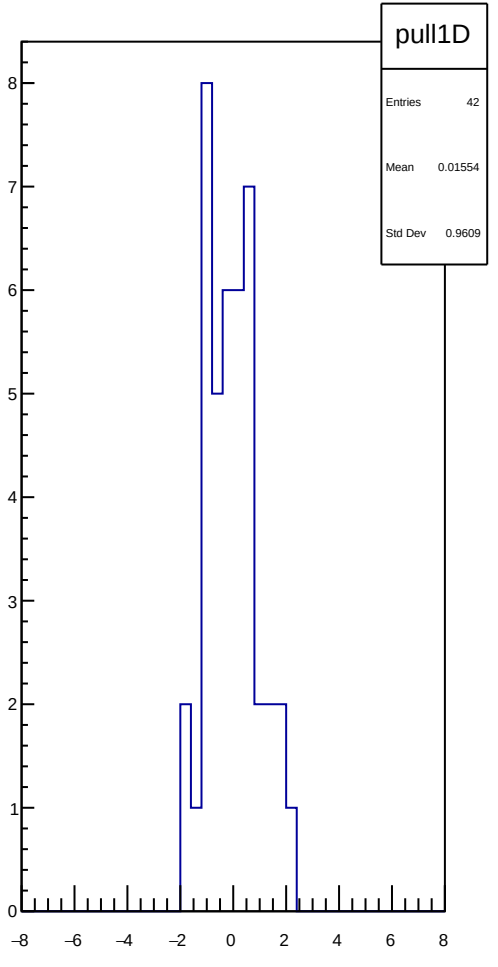

asym_sam_37_avg_correction_rms vs run
χ² / ndf 4071 / 41
p0 2153 ± 2.359
2800
2700
2600
2500
2400
2300
2200
2100
2000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

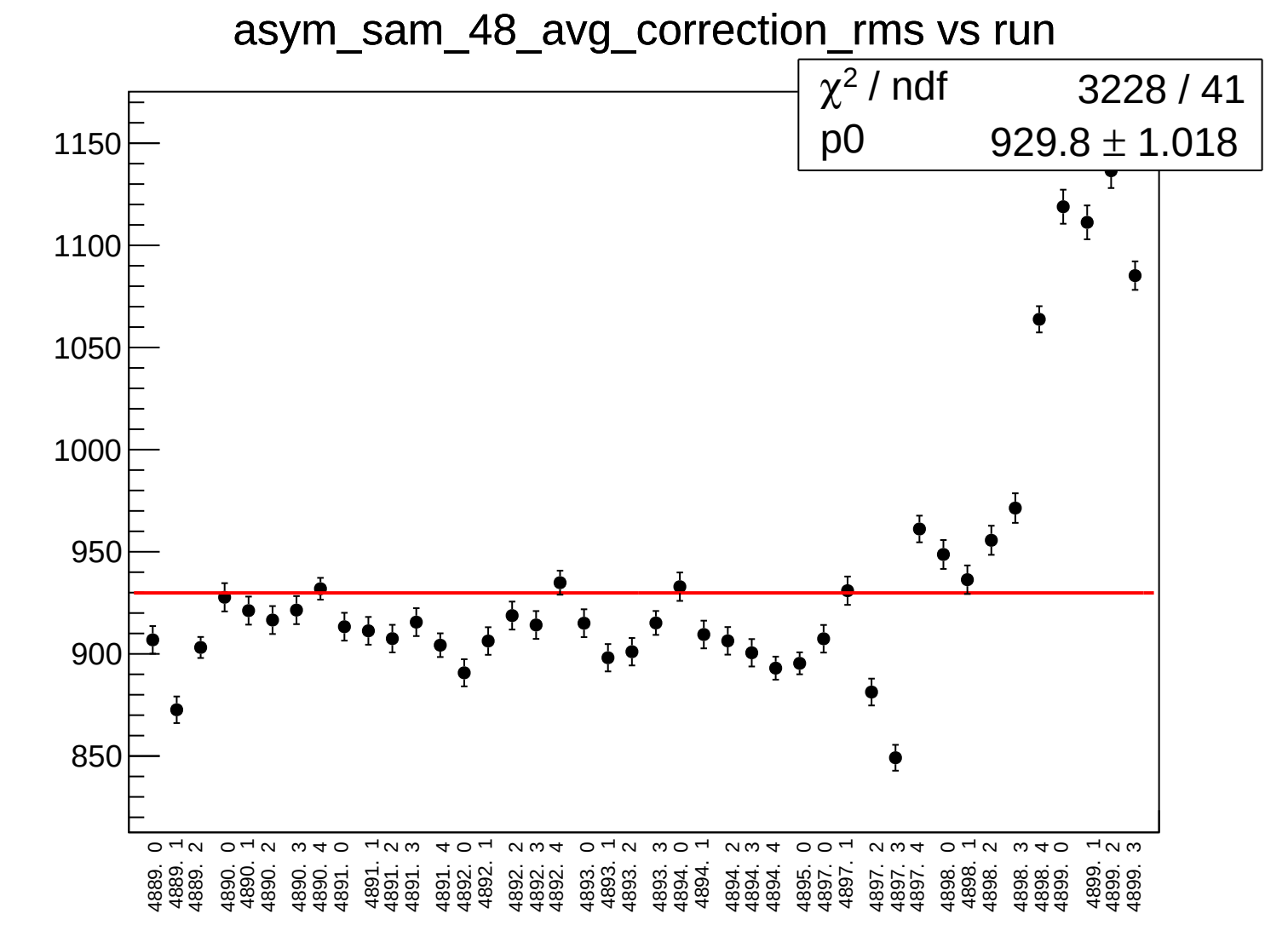

reg_asym_sam_48_avg_mean vs run
χ² / ndf 28.66 / 41
p0 −947.4 ± 619.4
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 244
Std Dev 245.7
1.5
1
0.5
0
−0.5
−1
−1.5

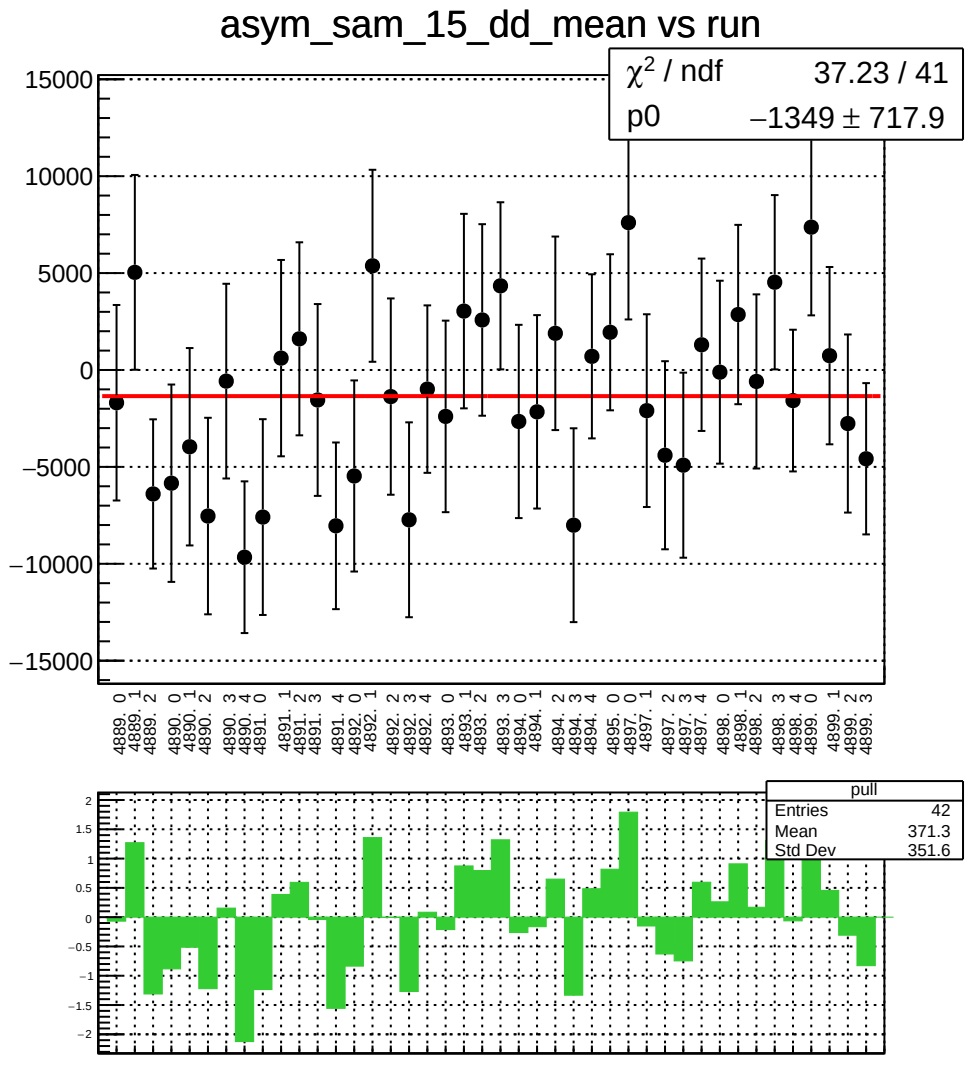

pull1D
Entries 42
Mean 0.002073
Std Dev 0.826
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

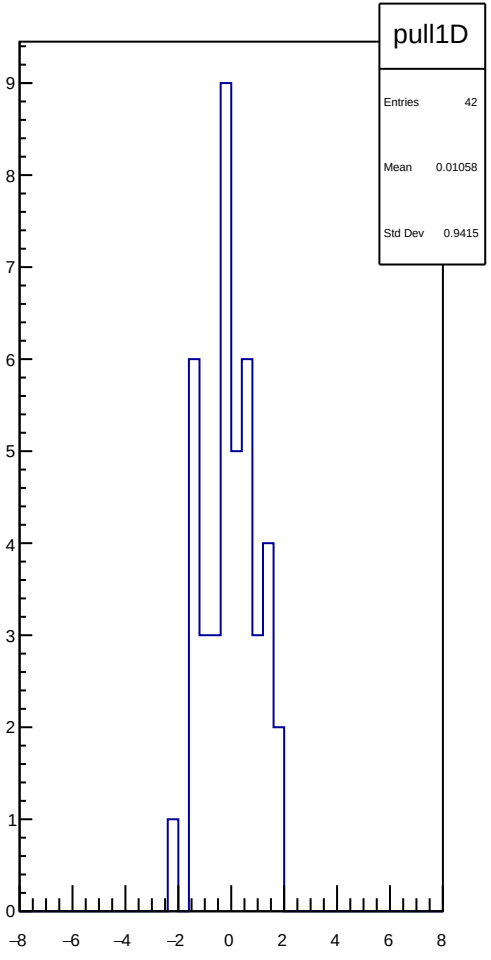

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.4e+04 / 41
p0 397.4 ± 0.438
480
460
440
420
400
380
360
340
320
300
280
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

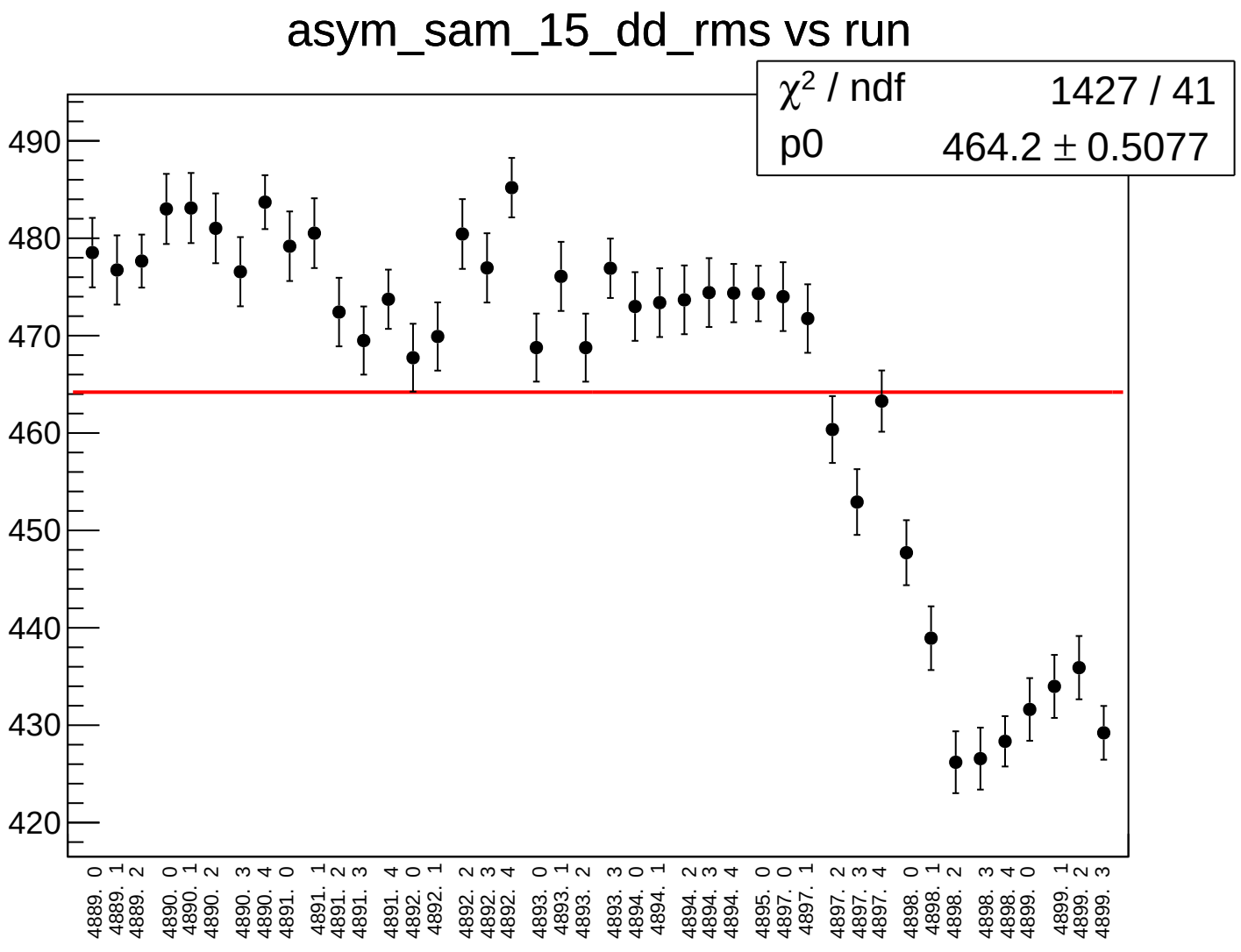

asym_sam_48_avg_correction_mean vs run
χ² / ndf 38.79 / 41
p0 −1837 ± 1440
30000
20000
10000
0
−10000
−20000
−30000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 293.9
Std Dev 270.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

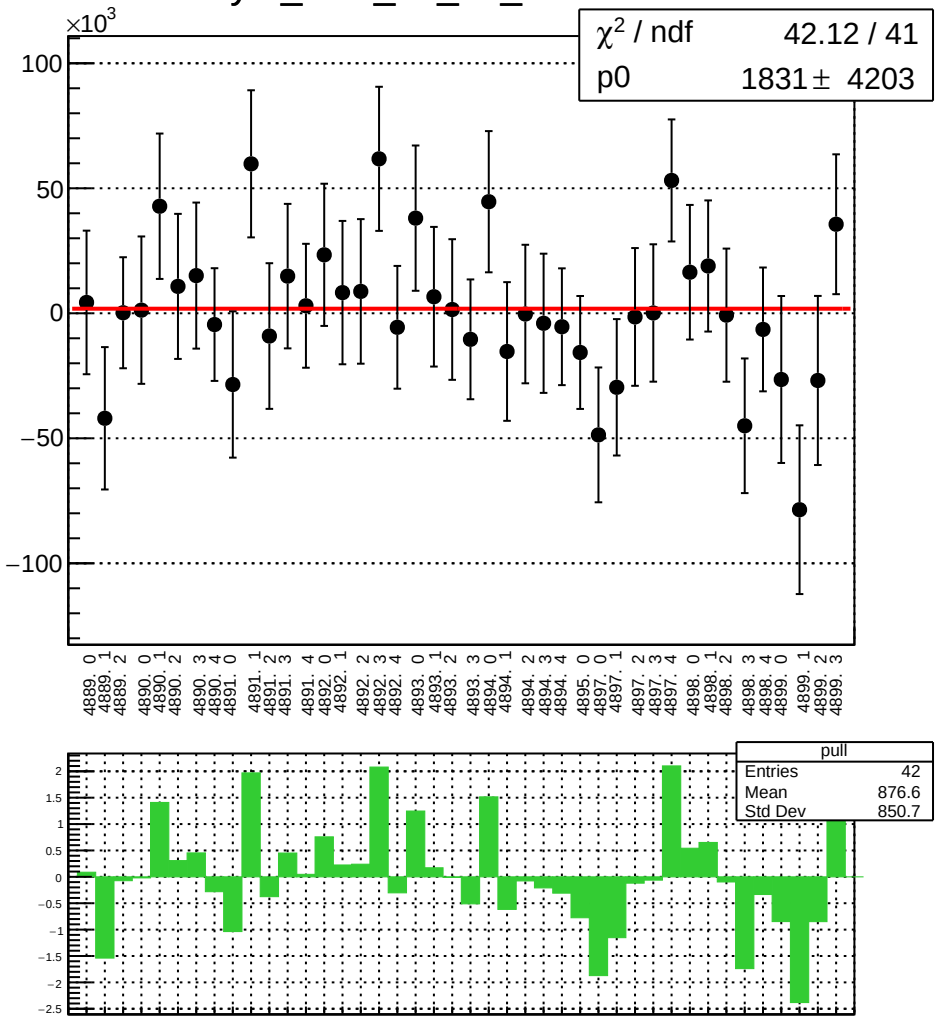

pull1D
Entries 42
Mean 0.01554
Std Dev 0.9609
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

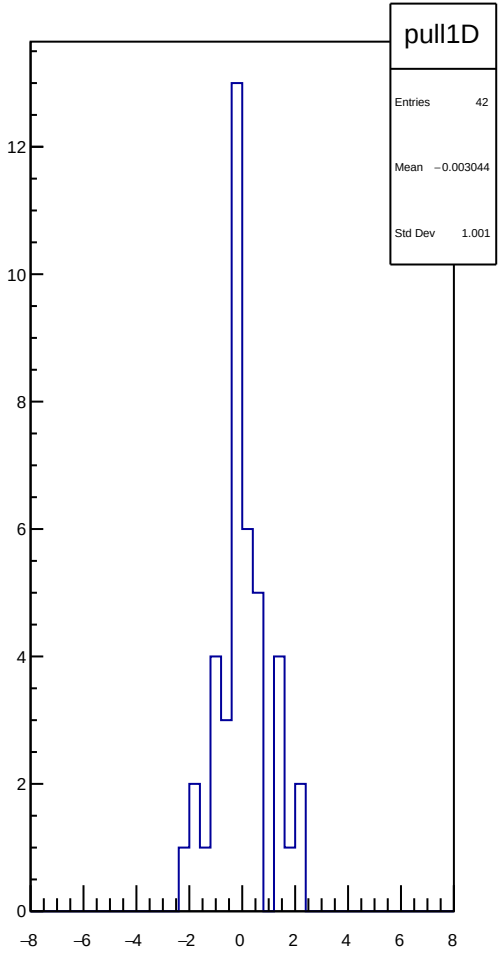

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3228 / 41
p0 929.8 ± 1.018
1150
1100
1050
1000
950
900
850
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

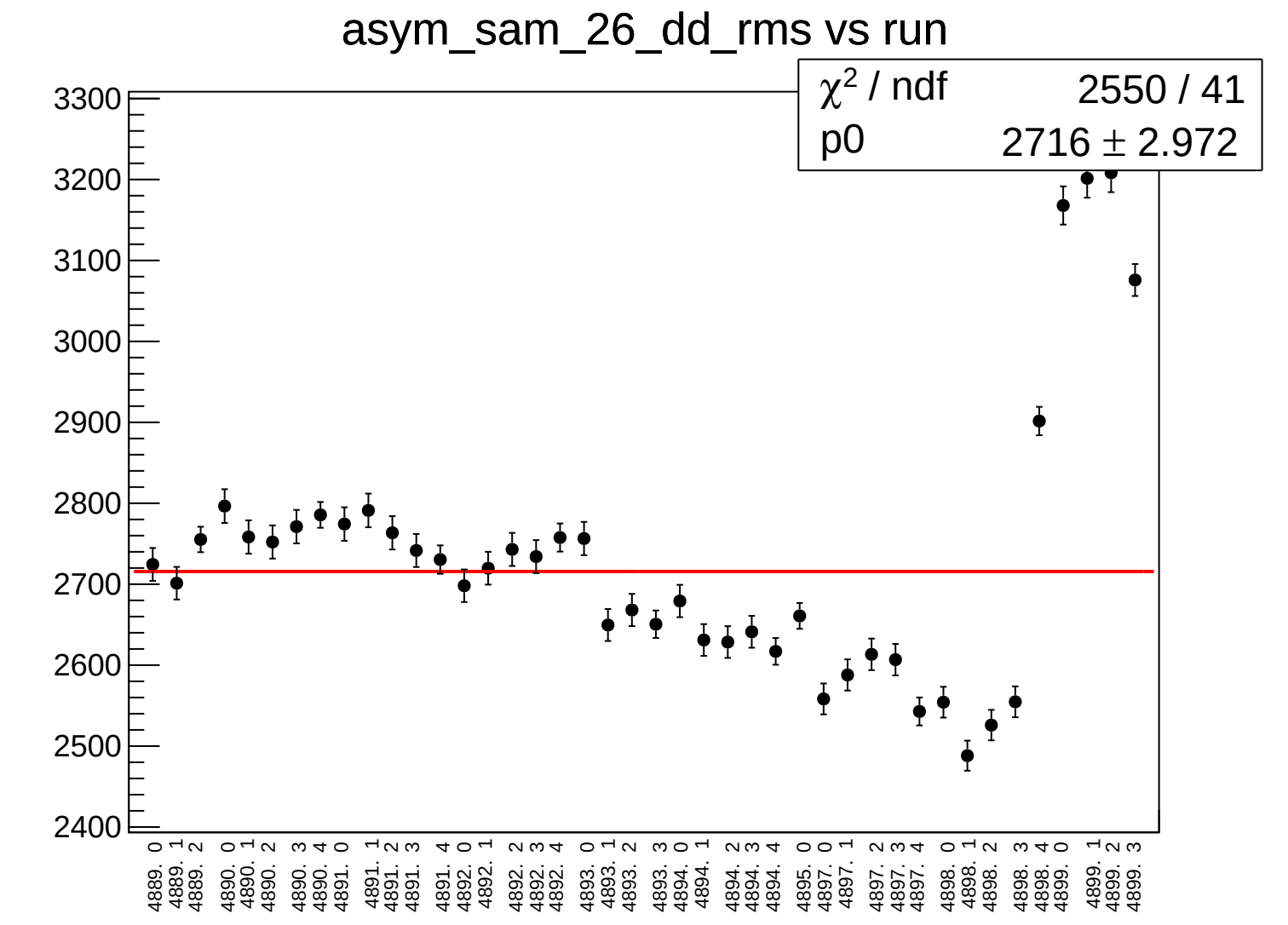

asym_sam_15_dd_mean vs run
χ² / ndf 37.23 / 41
p0 −1349 ± 717.9
15000
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 371.3
Std Dev 351.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

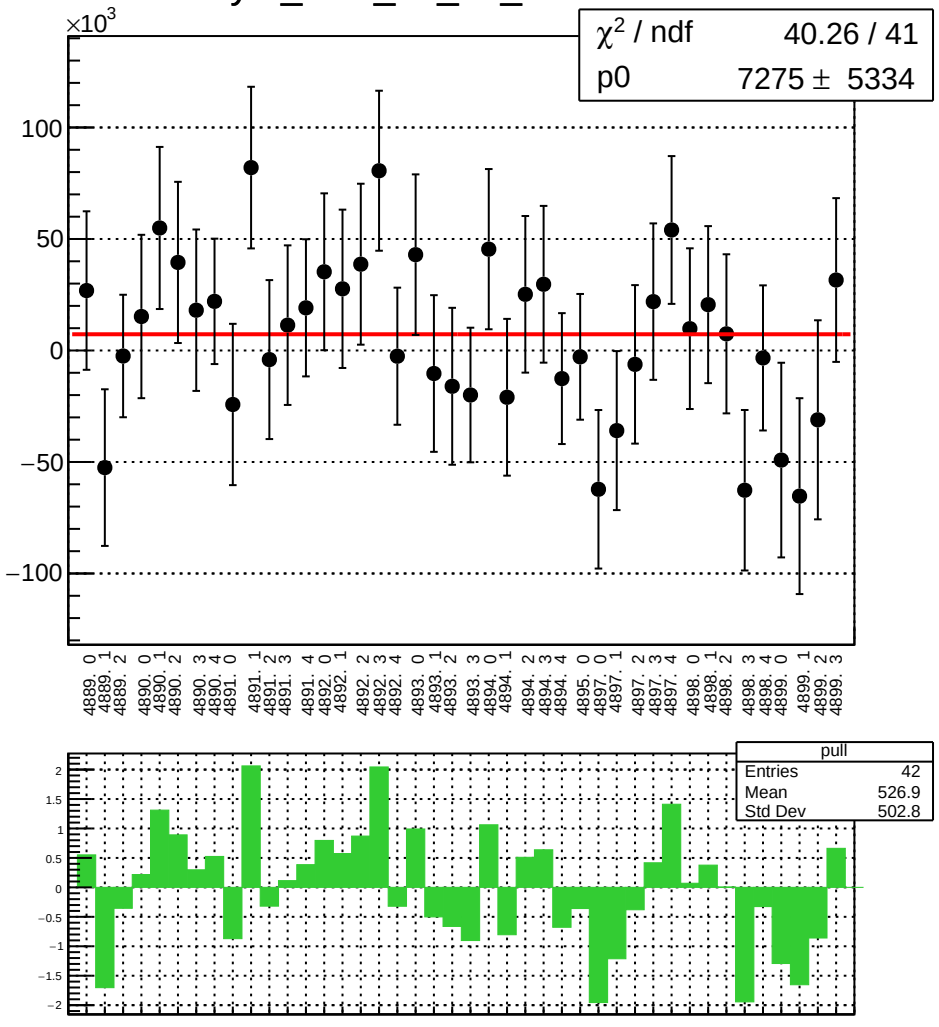

pull1D
Entries 42
Mean 0.01058
Std Dev 0.9415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

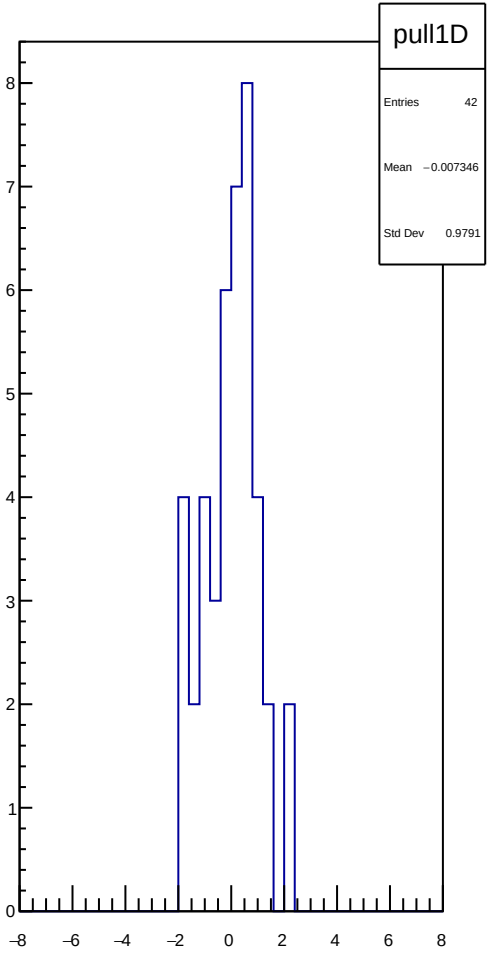

asym_sam_15_dd_rms vs run
χ² / ndf 1427 / 41
p0 464.2 ± 0.5077
490
480
470
460
450
440
430
420
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

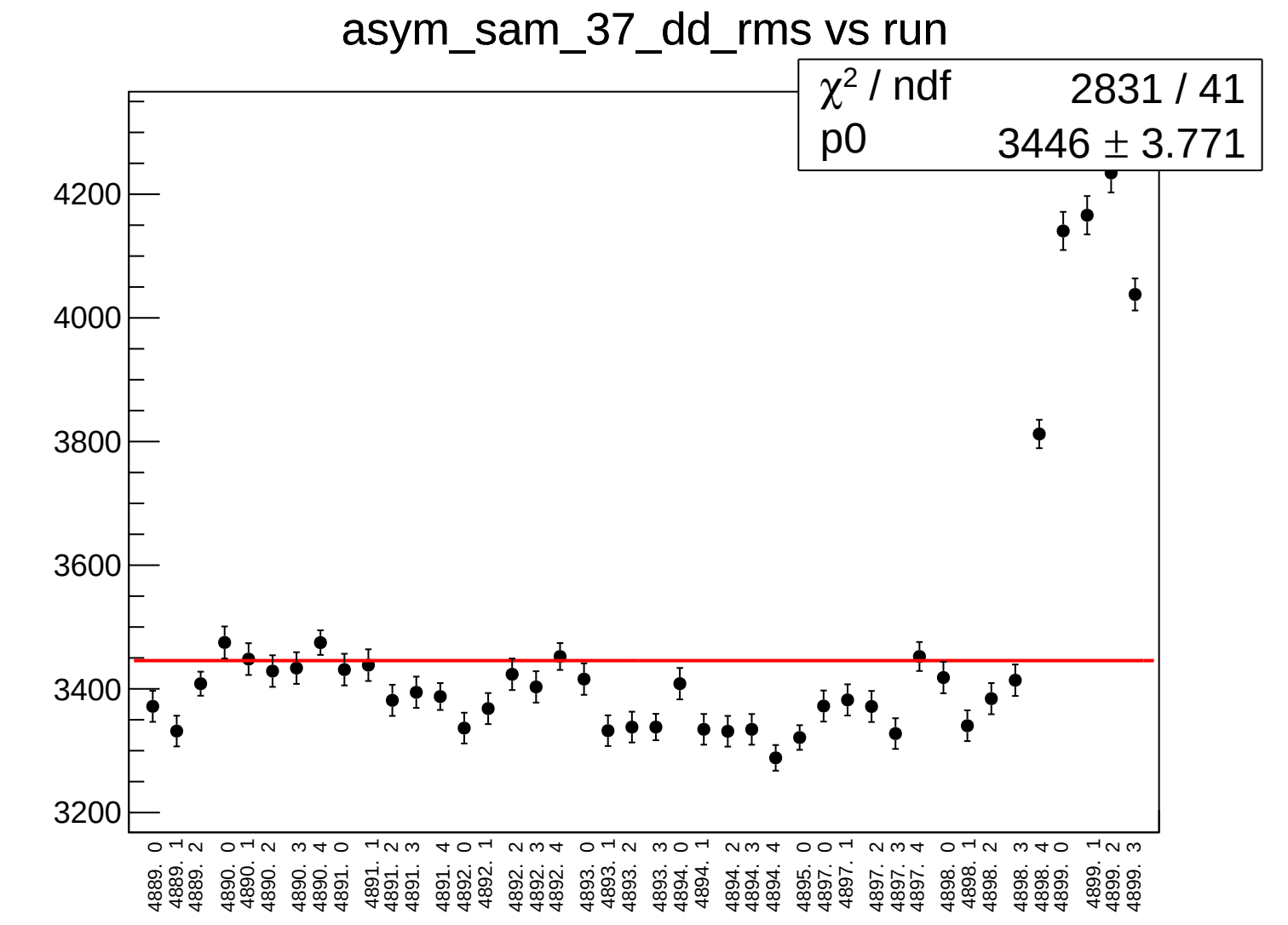

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 42.12 / 41
p0 1831 ± 4203
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 876.6
Std Dev 850.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

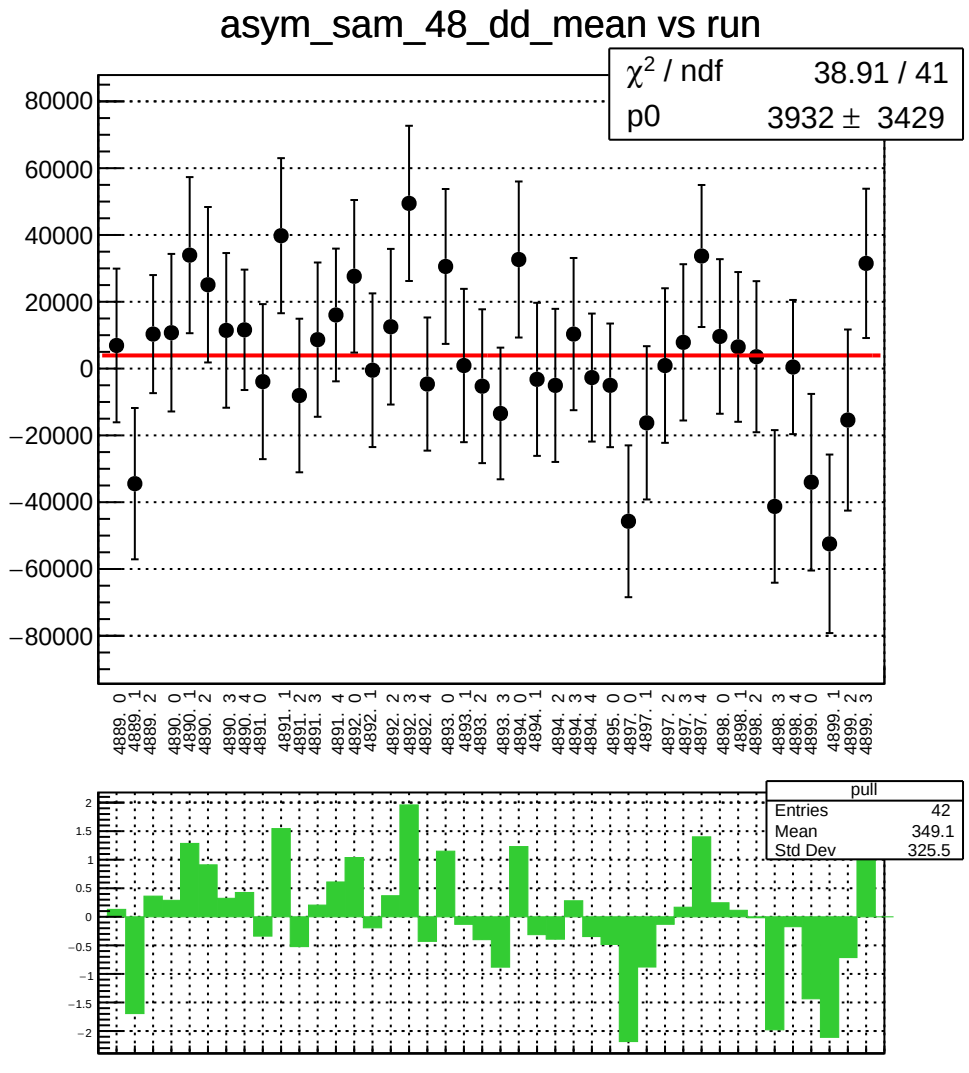

pull1D
Entries 42
Mean −0.003044
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

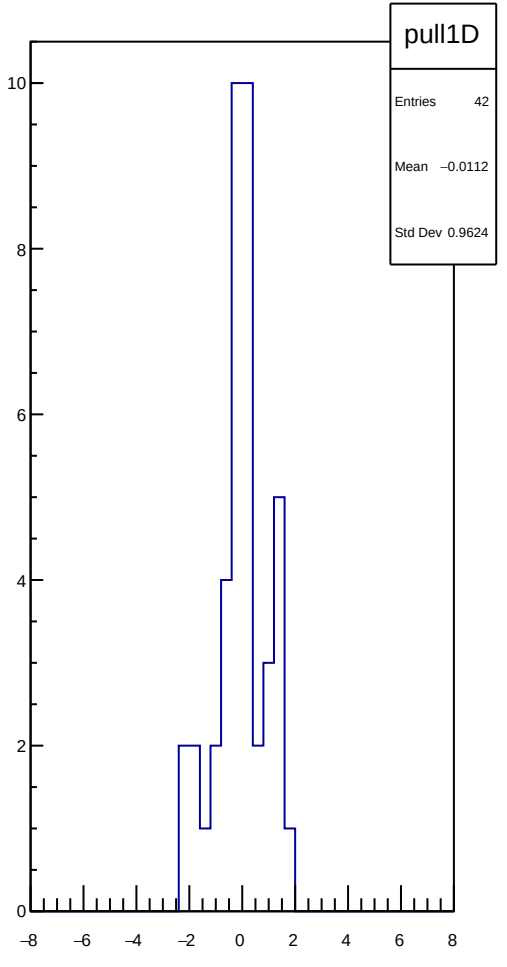

asym_sam_26_dd_rms vs run
χ² / ndf 2550 / 41
p0 2716 ± 2.972
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

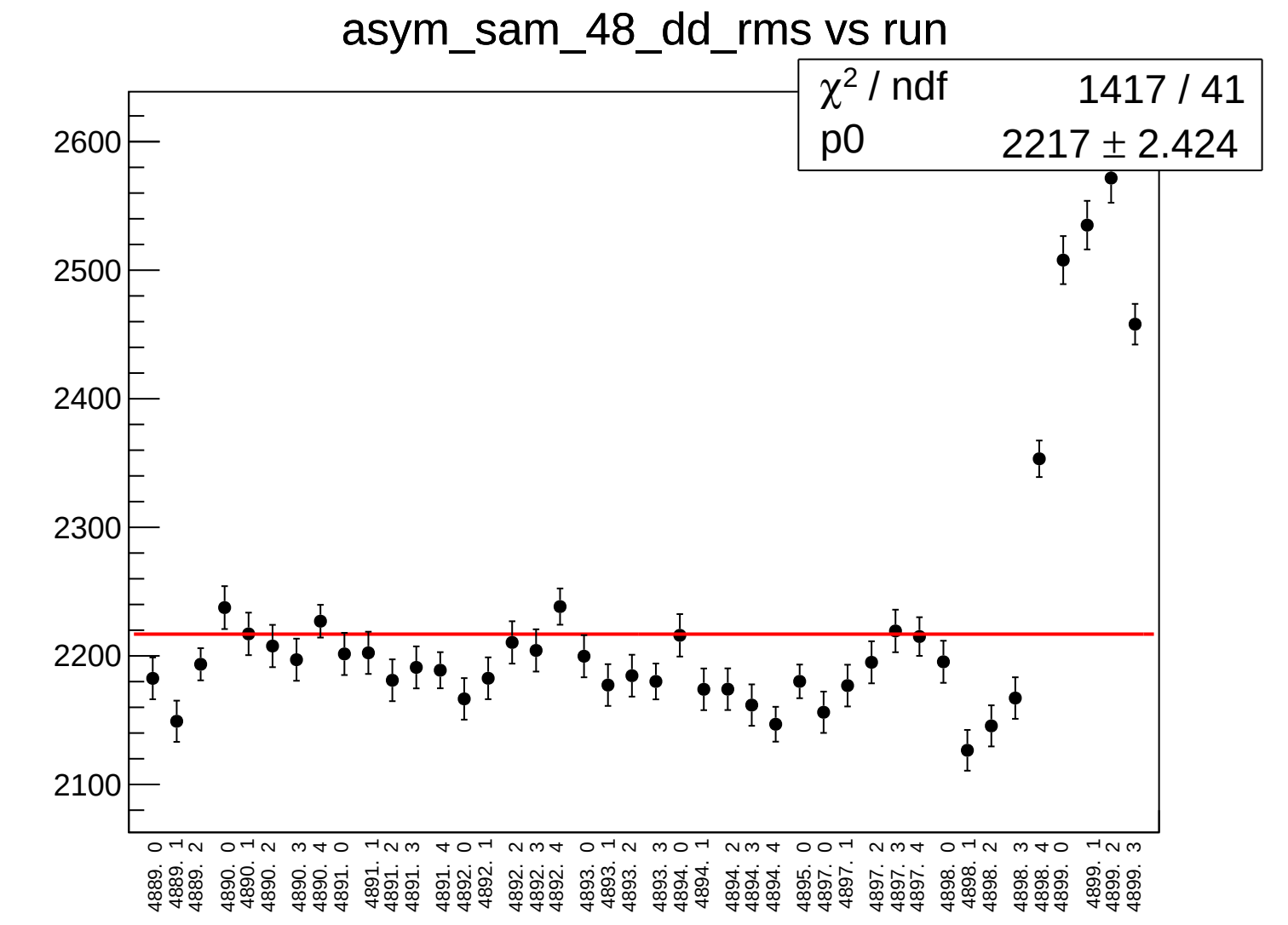

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 40.26 / 41
p0 7275 ± 5334
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 526.9
Std Dev 502.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

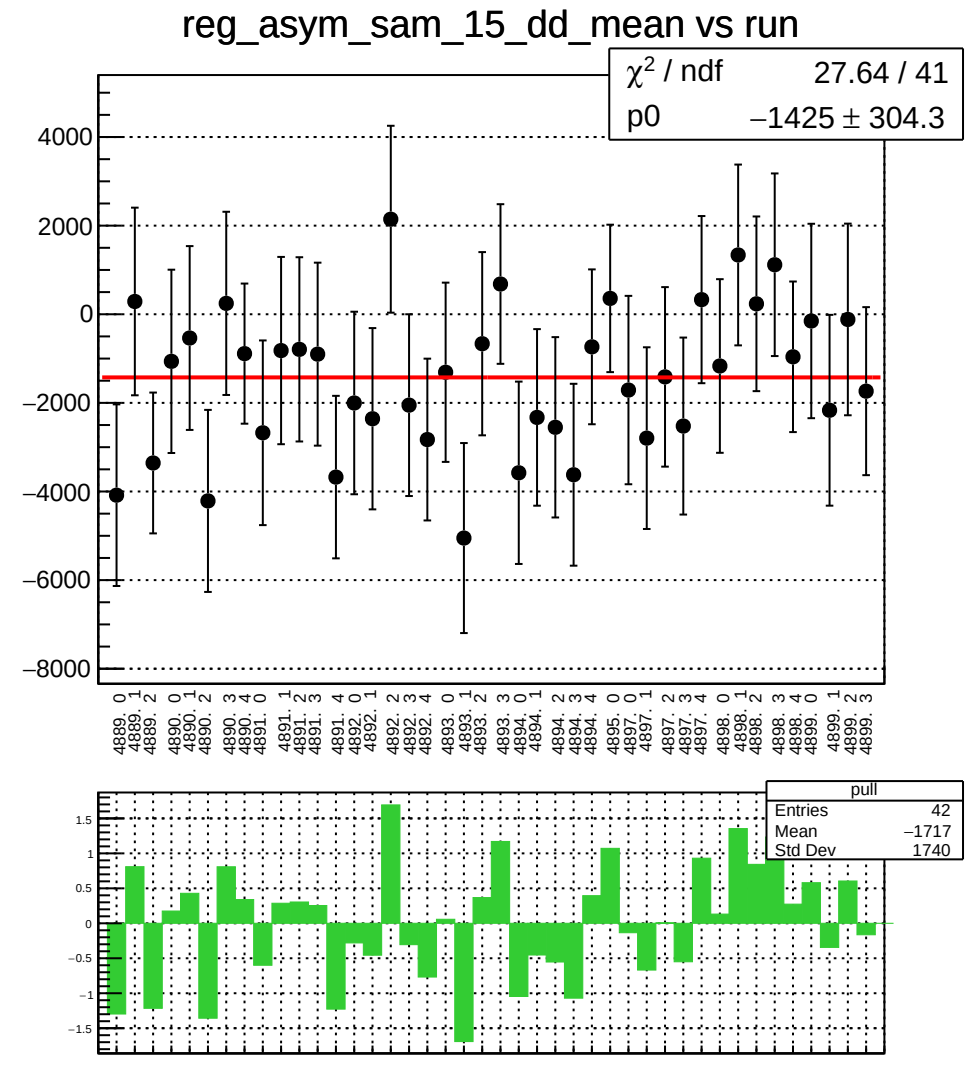

pull1D
Entries 42
Mean −0.007346
Std Dev 0.9791
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

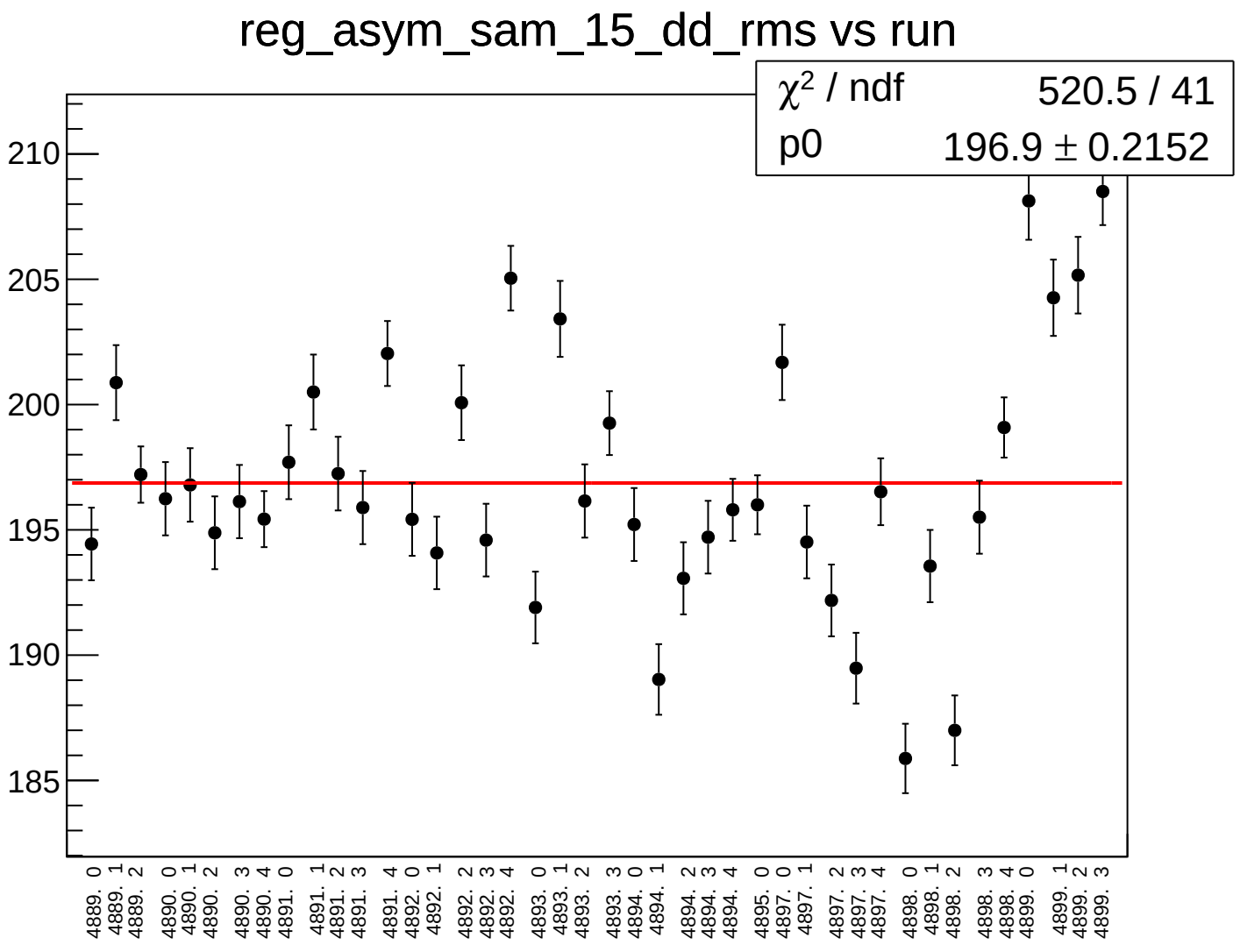

asym_sam_37_dd_rms vs run
χ² / ndf 2831 / 41
p0 3446 ± 3.771
4200
4000
3800
3600
3400
3200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

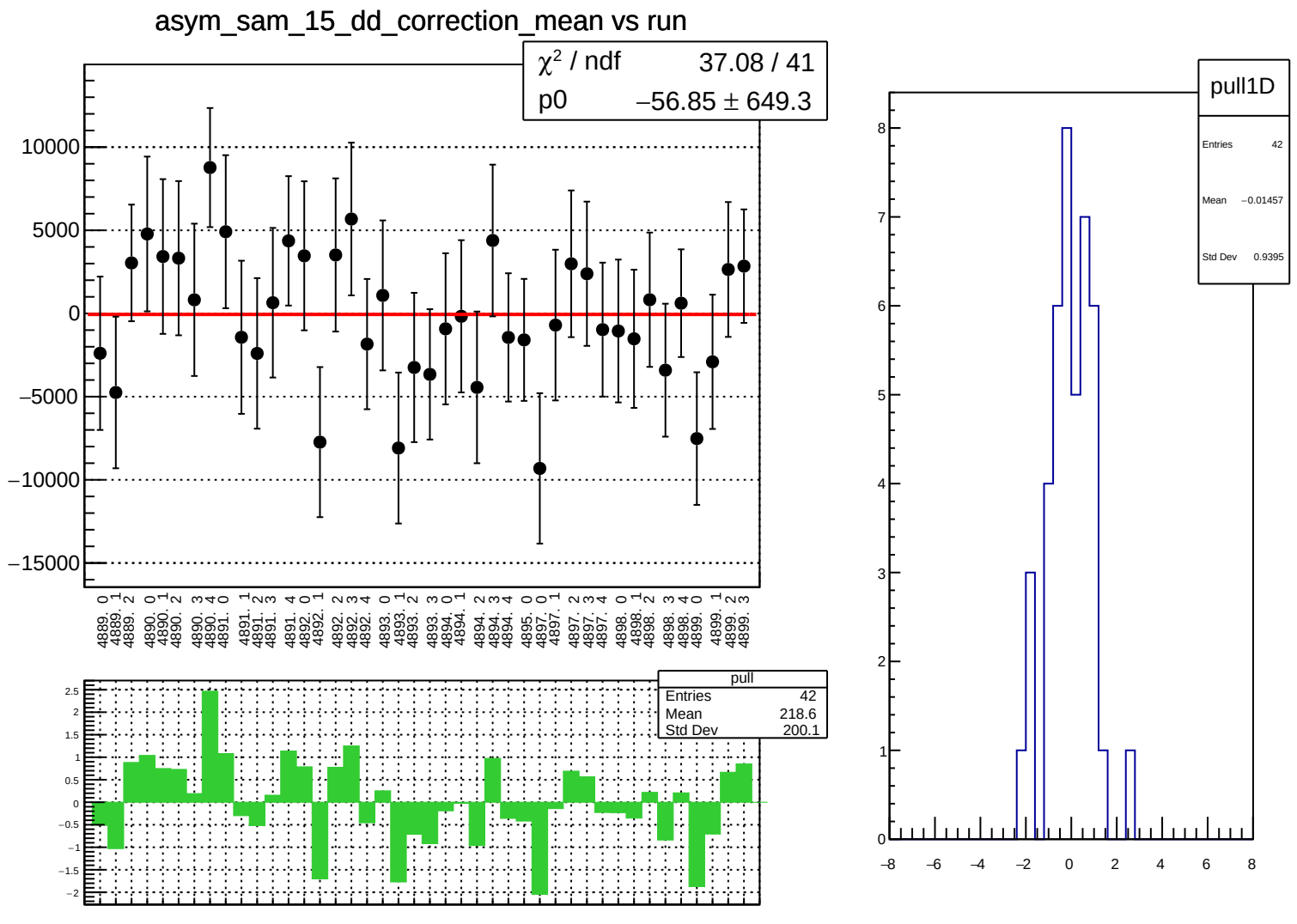

asym_sam_48_dd_mean vs run
χ² / ndf 38.91 / 41
p0 3932 ± 3429
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 349.1
Std Dev 325.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

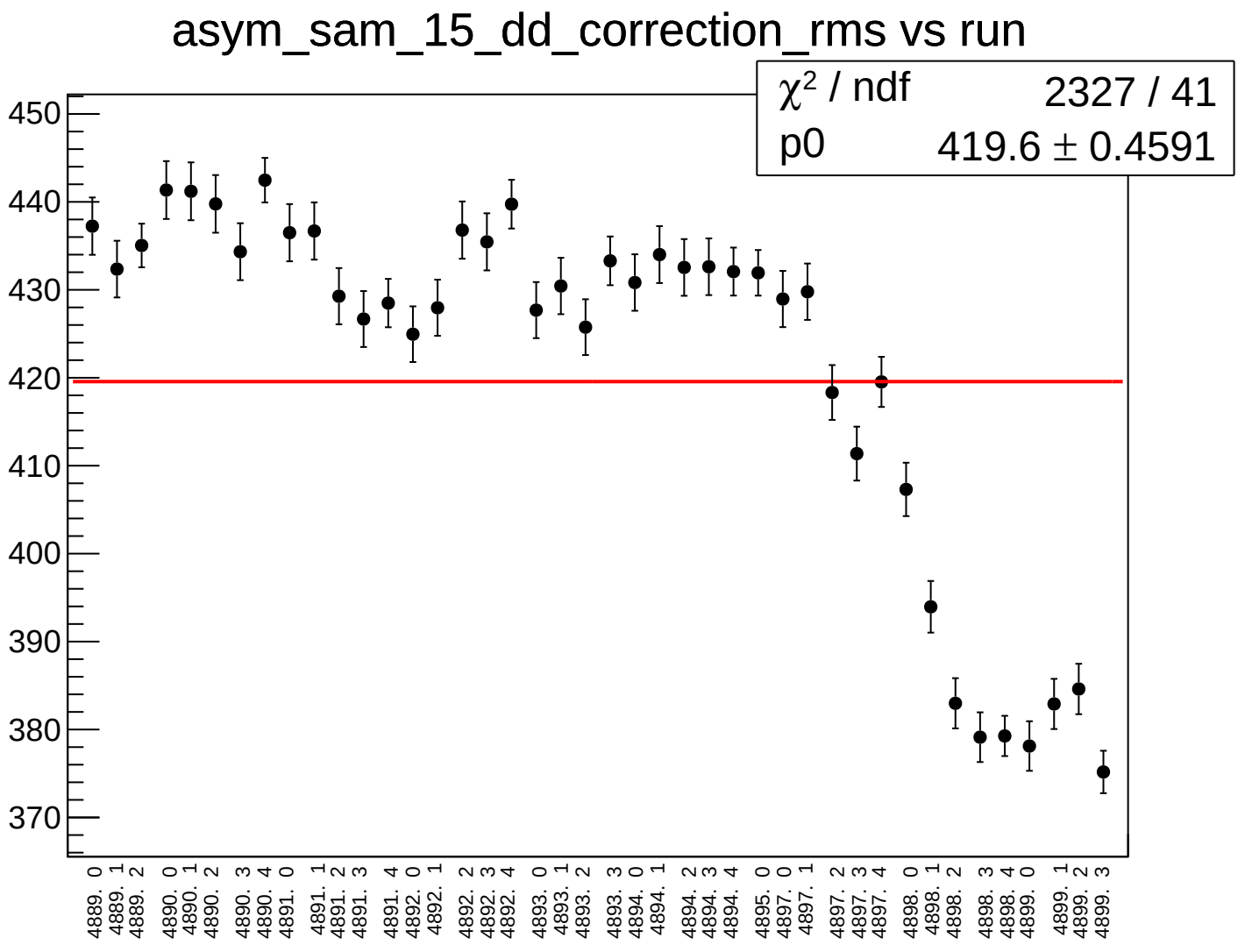

pull1D
Entries 42
Mean −0.0112
Std Dev 0.9624
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

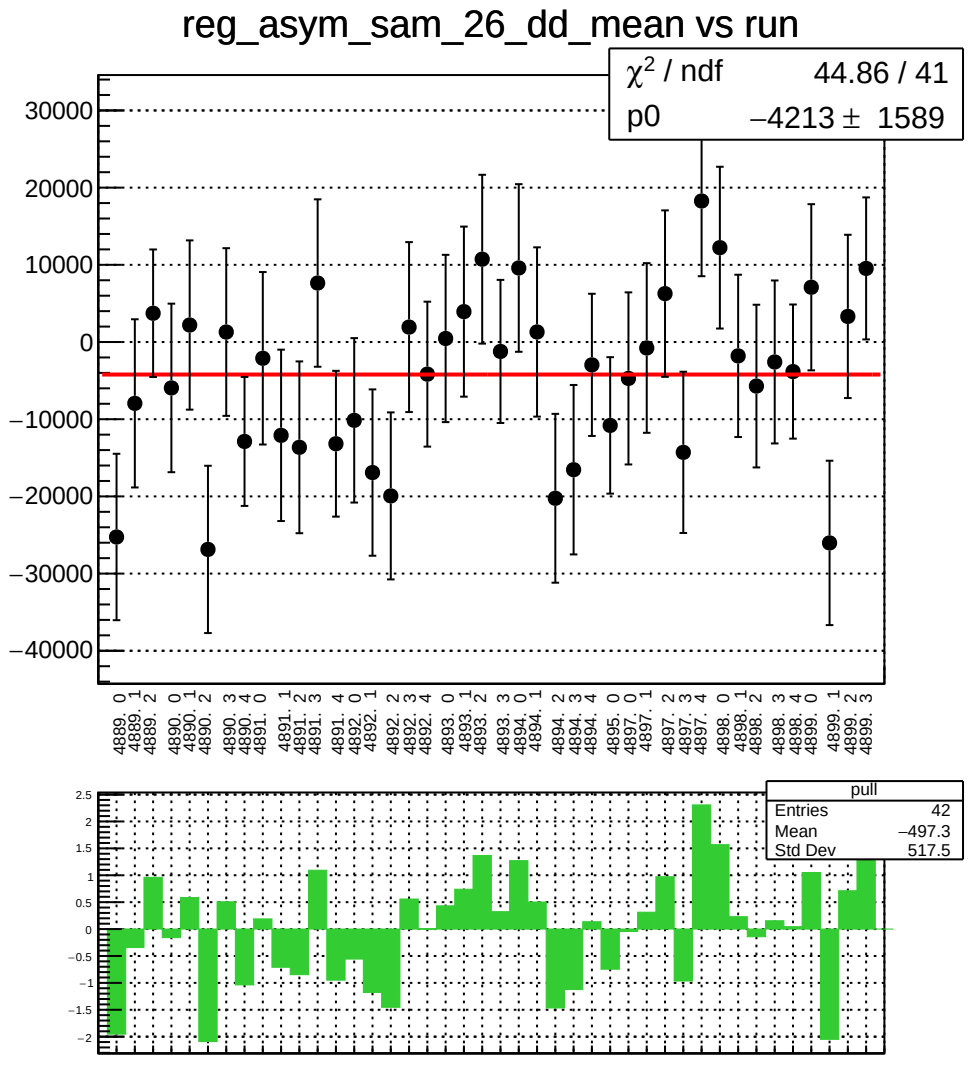

asym_sam_48_dd_rms vs run
χ² / ndf 1417 / 41
p0 2217 ± 2.424
2600
2500
2400
2300
2200
2100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

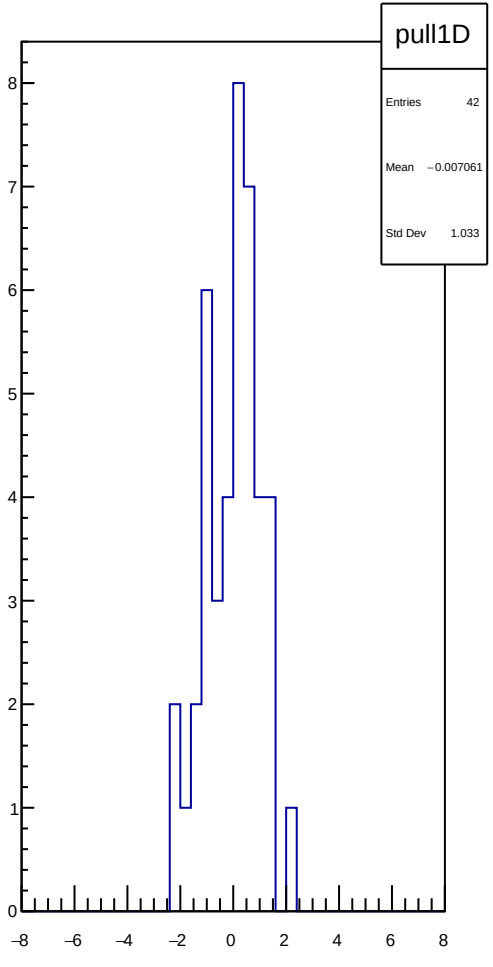

reg_asym_sam_15_dd_mean vs run
χ² / ndf 27.64 / 41
p0 −1425 ± 304.3
4000
2000
0
−2000
−4000
−6000
−8000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −1717
Std Dev 1740
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.001445
Std Dev 0.8112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

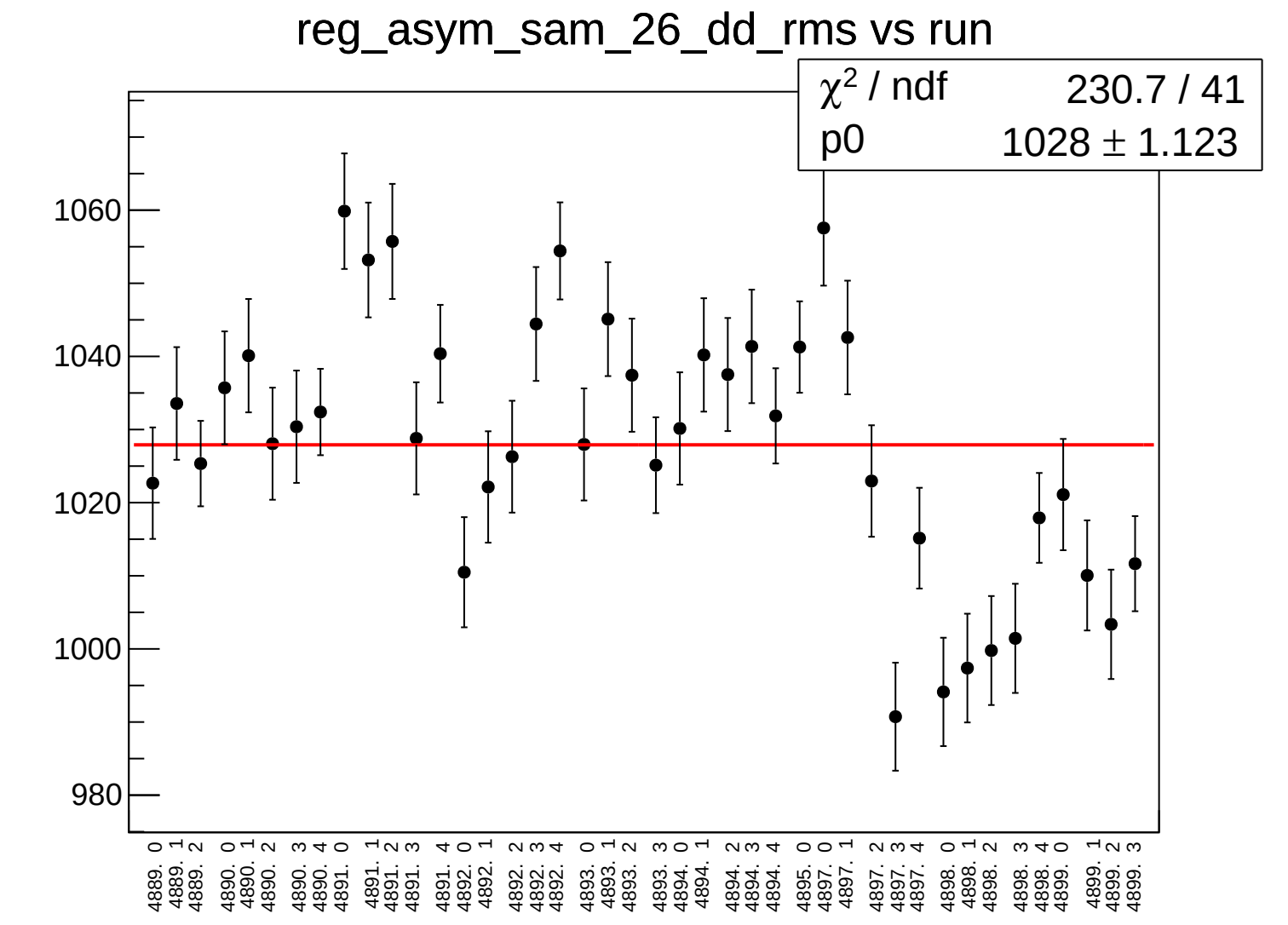

reg_asym_sam_15_dd_rms vs run
χ² / ndf 520.5 / 41
p0 196.9 ± 0.2152
210
205
200
195
190
185
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

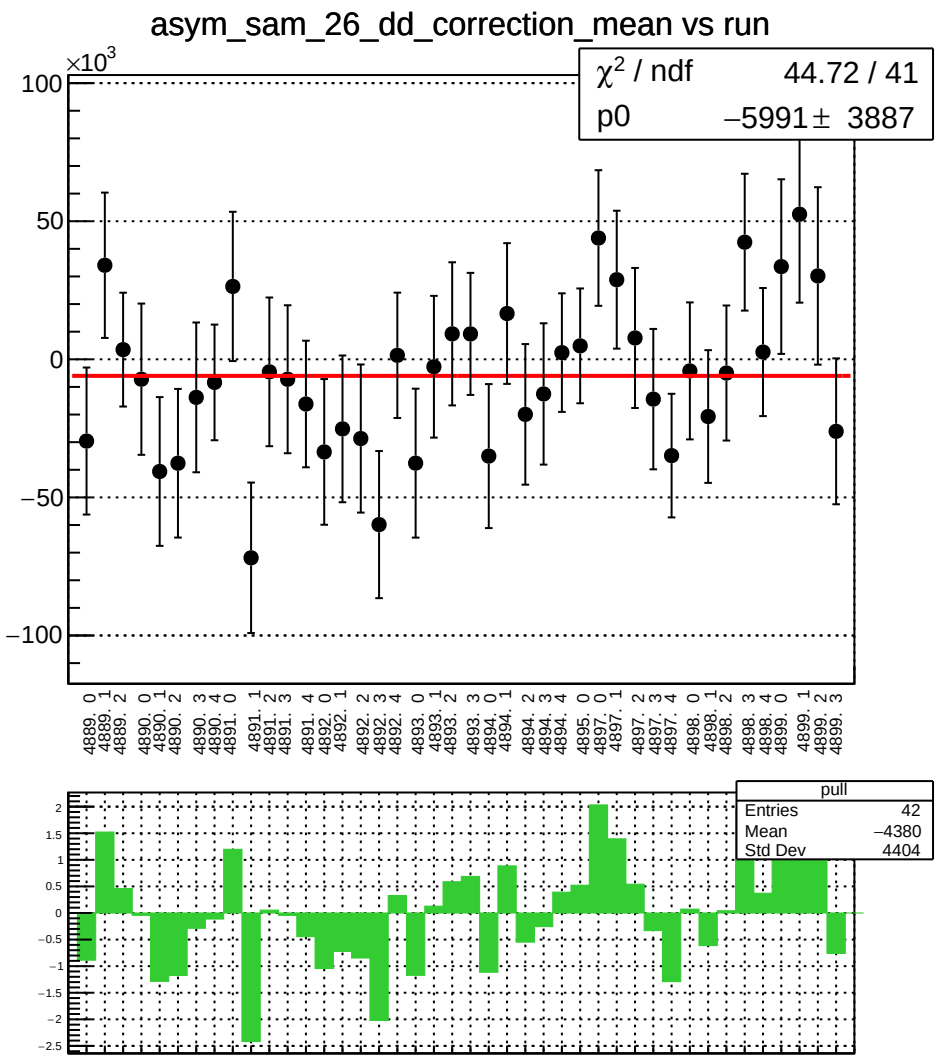

asym_sam_15_dd_correction_mean vs run
χ² / ndf 37.08 / 41
p0 −56.85 ± 649.3
10000
5000
0
−5000
−10000
−15000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 218.6
Std Dev 200.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.01457
Std Dev 0.9395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

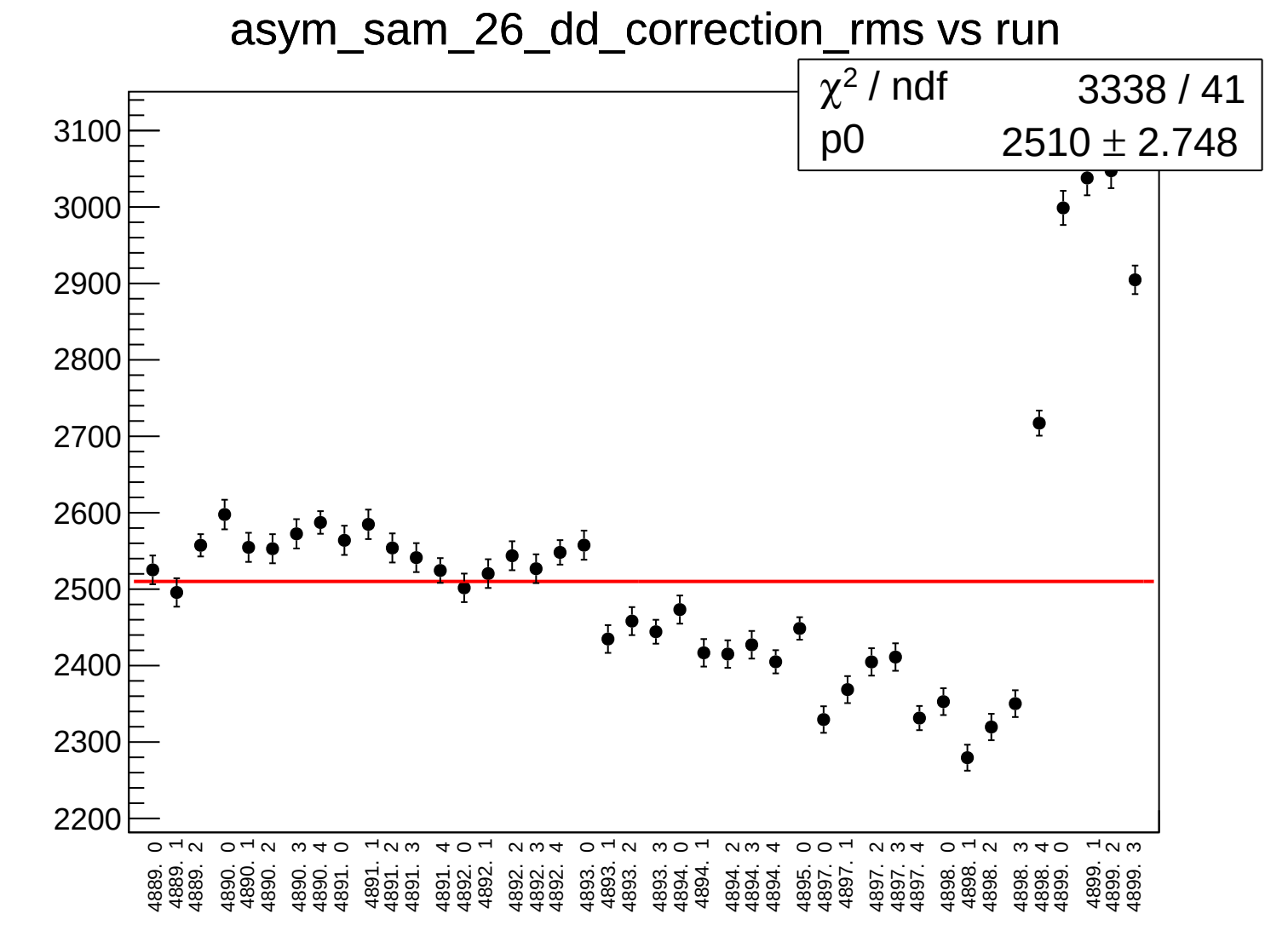

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2327 / 41
p0 419.6 ± 0.4591
450
440
430
420
410
400
390
380
370
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

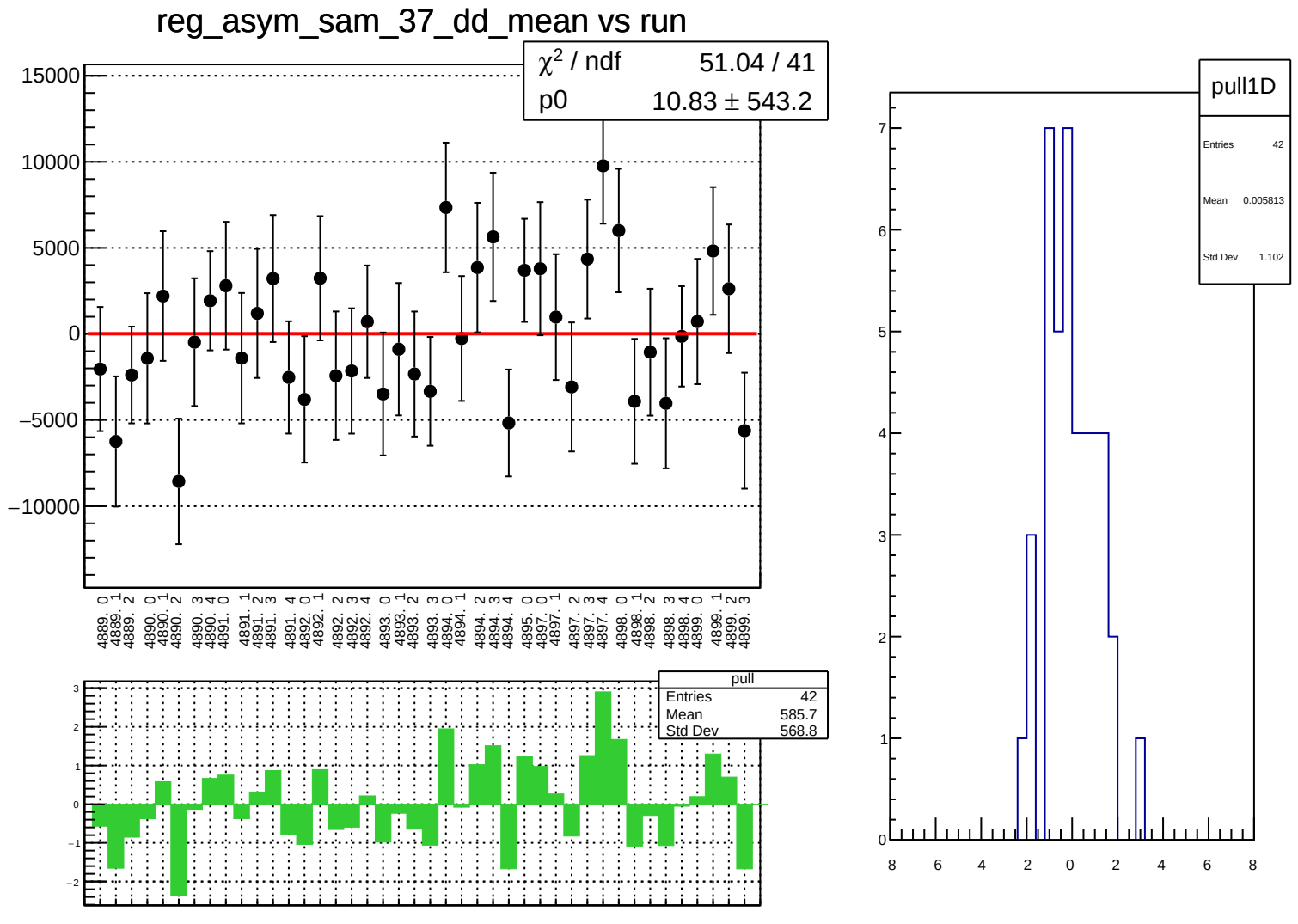

reg_asym_sam_26_dd_mean vs run
χ² / ndf 44.86 / 41
p0 −4213 ± 1589
pull
Entries 42
Mean −497.3
Std Dev 517.5

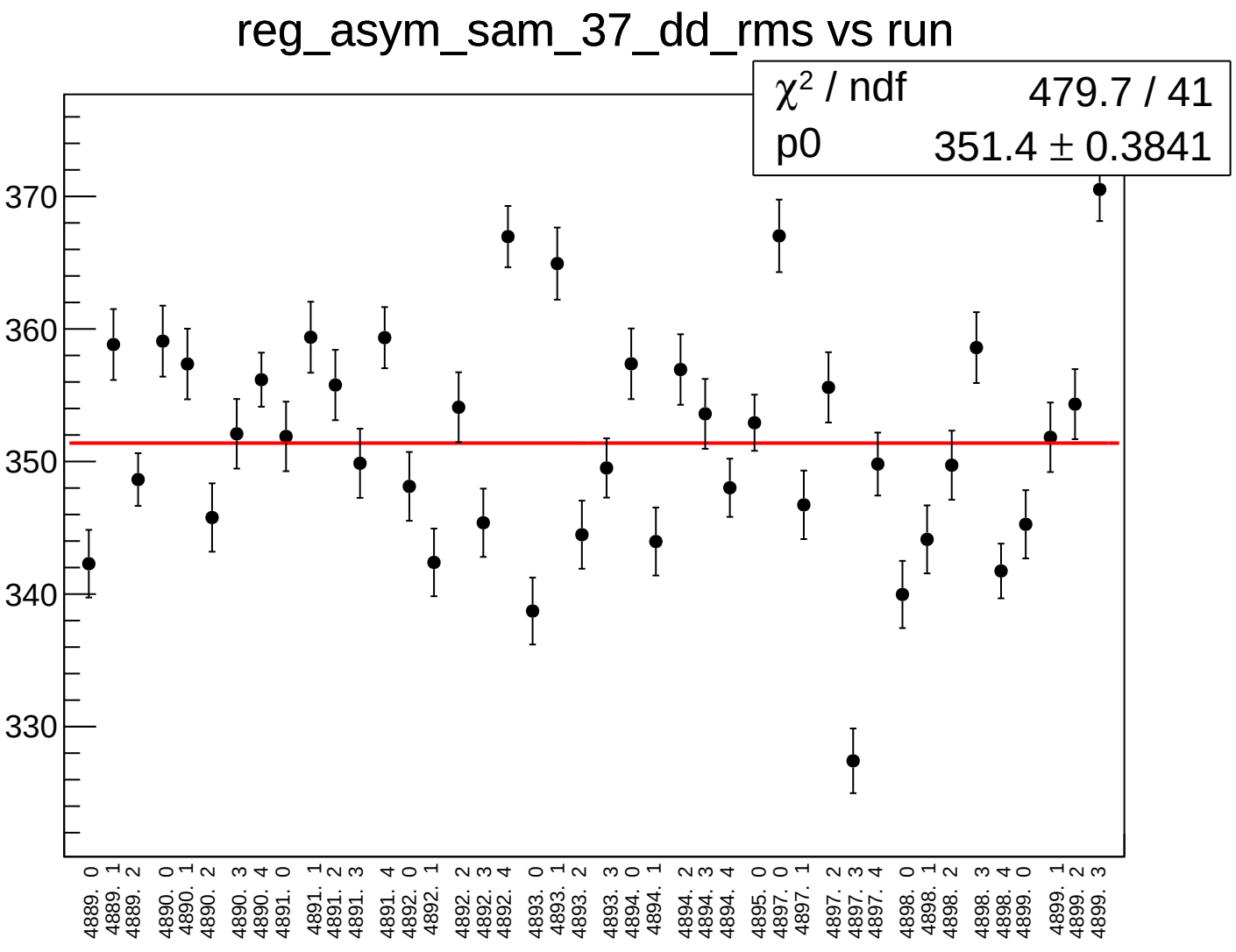

pull1D
Entries 42
Mean −0.007061
Std Dev 1.033

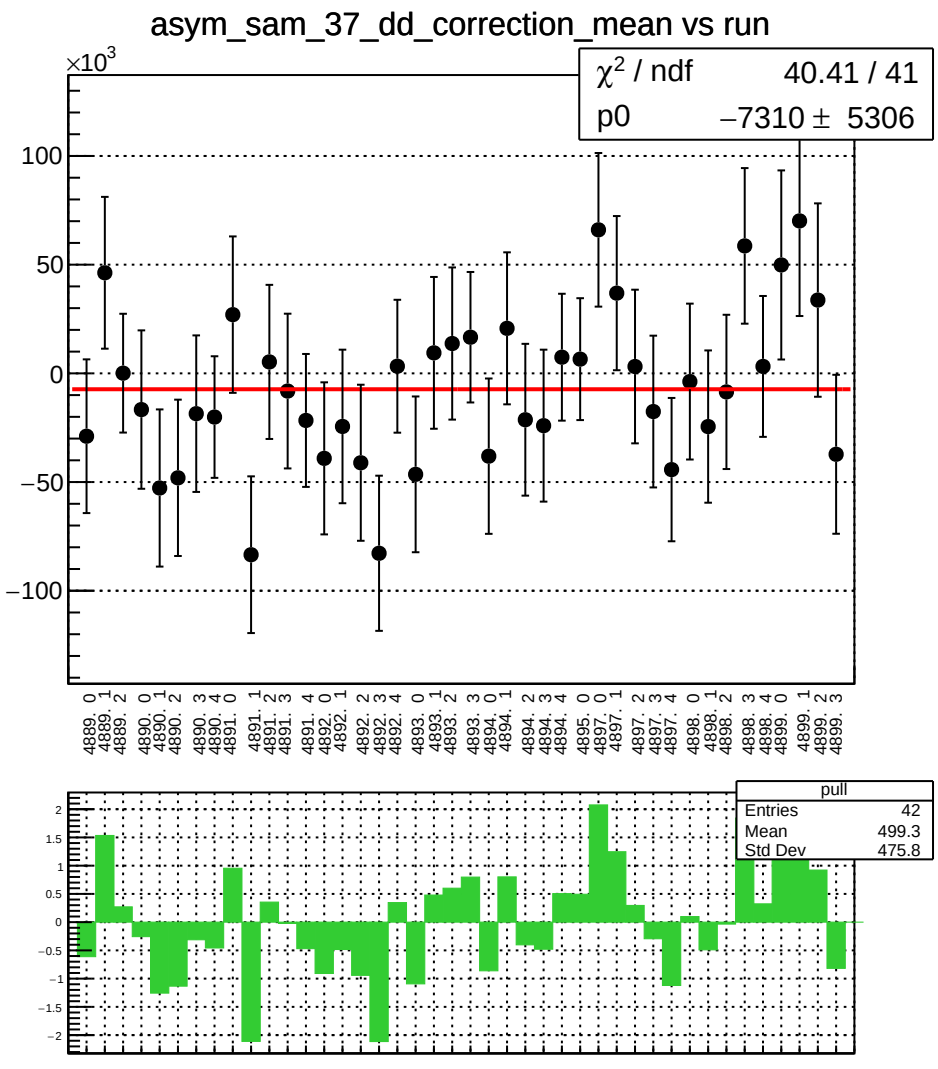

reg_asym_sam_26_dd_rms vs run
χ² / ndf 230.7 / 41
p0 1028 ± 1.123
1060
1040
1020
1000
980
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

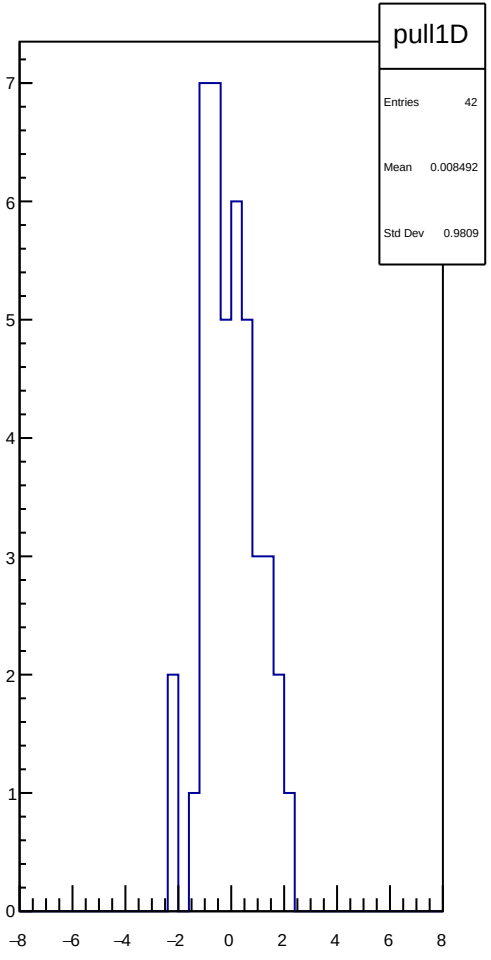

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 44.72 / 41
p0 −5991 ± 3887
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −4380
Std Dev 4404
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean −0.0009682
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

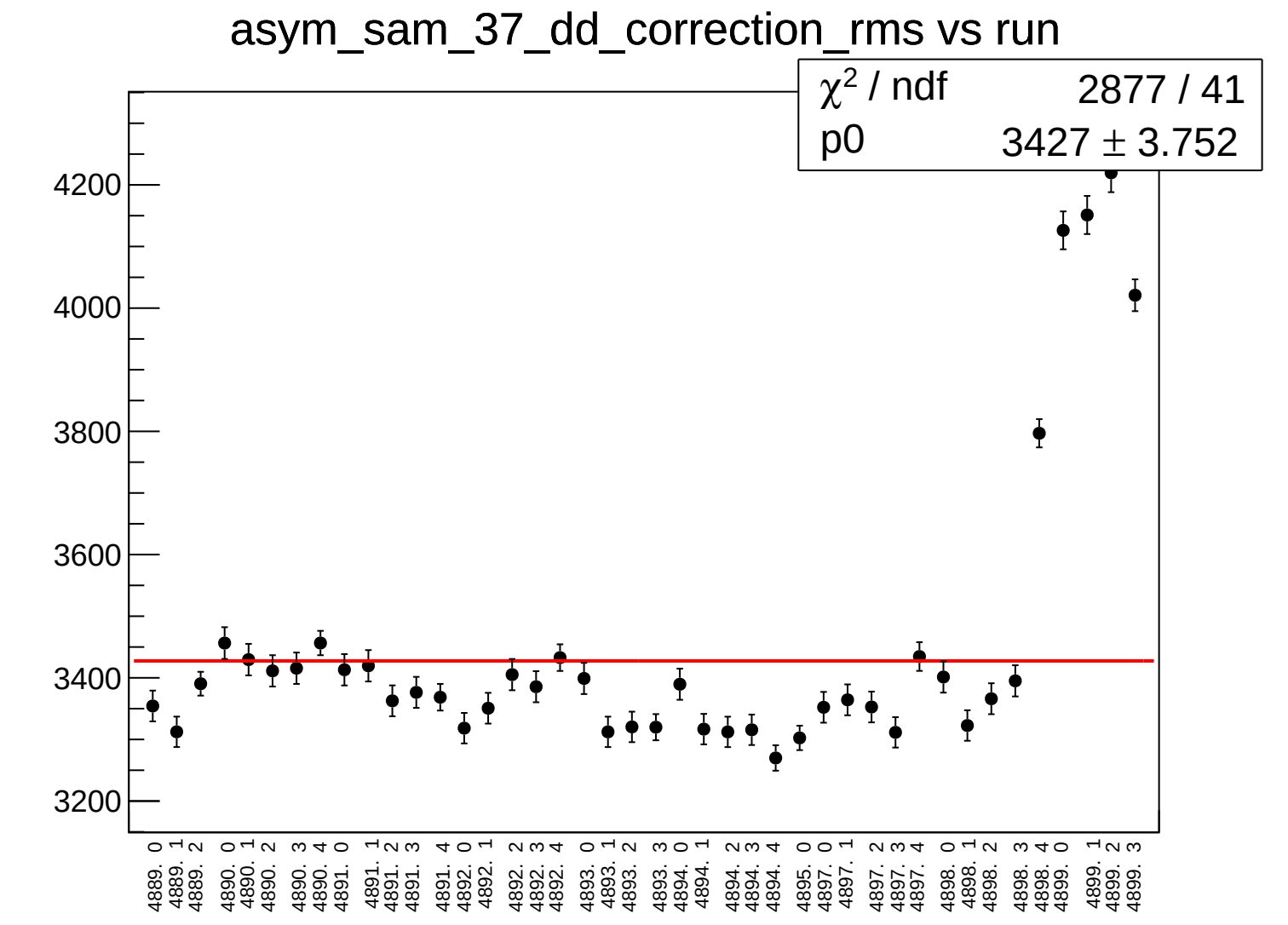

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3338 / 41
p0 2510 ± 2.748
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

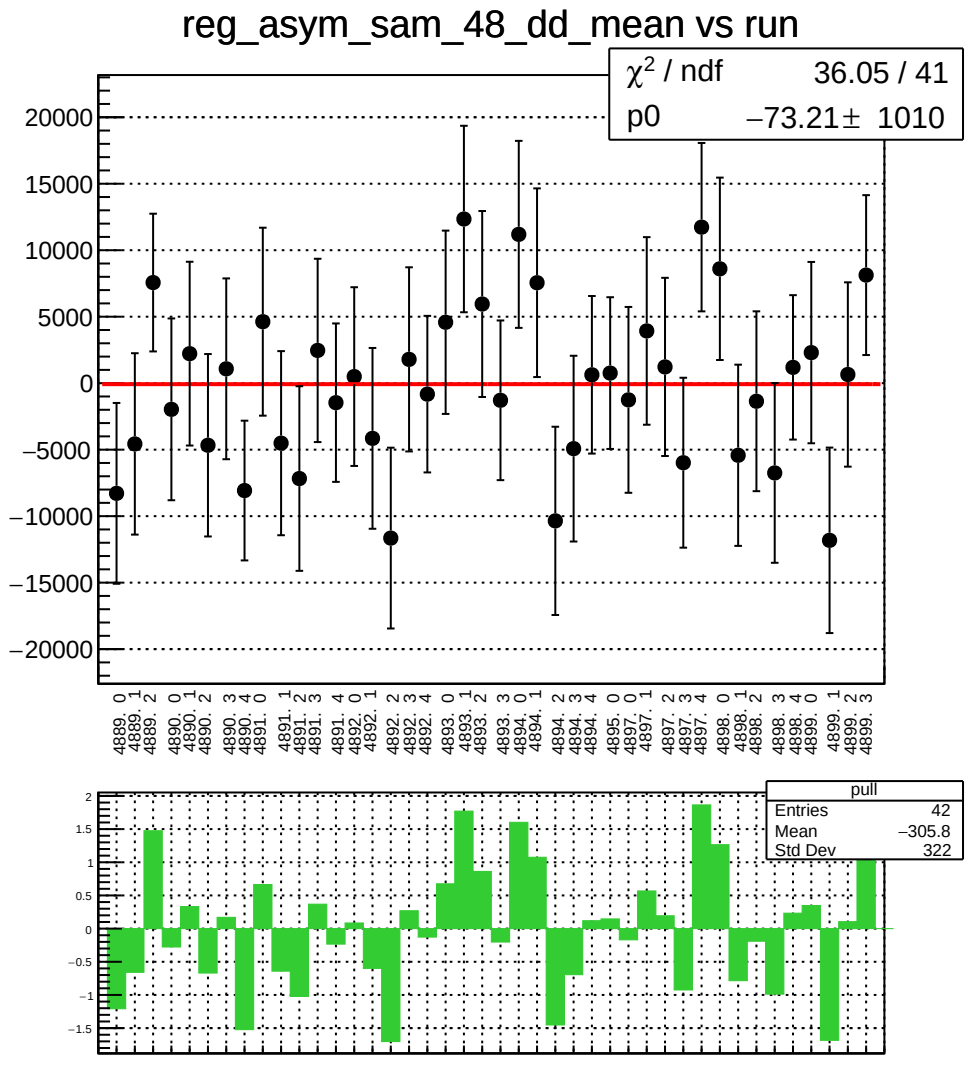

reg_asym_sam_37_dd_mean vs run
χ² / ndf 51.04 / 41
p0 10.83 ± 543.2
15000
10000
5000
0
−5000
−10000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 585.7
Std Dev 568.8
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.005813
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

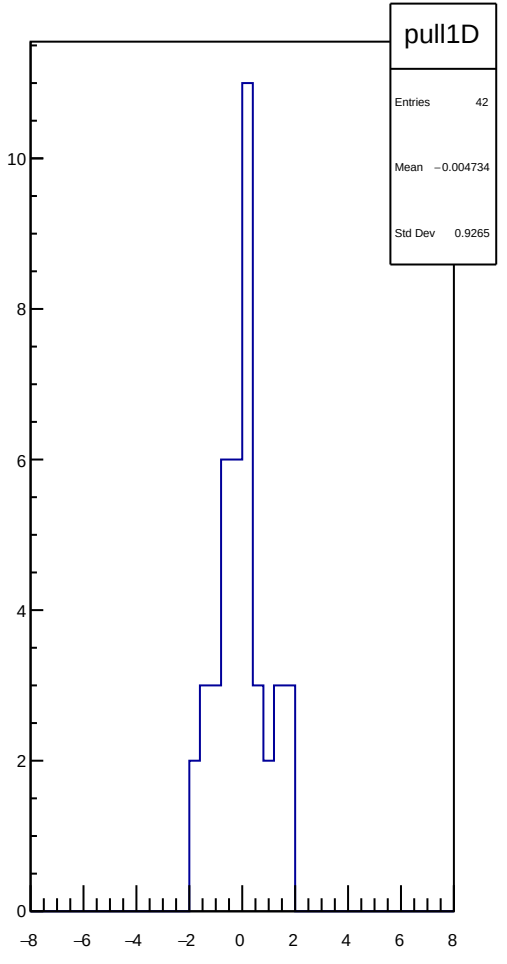

reg_asym_sam_37_dd_rms vs run
χ² / ndf 479.7 / 41
p0 351.4 ± 0.3841
370
360
350
340
330
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

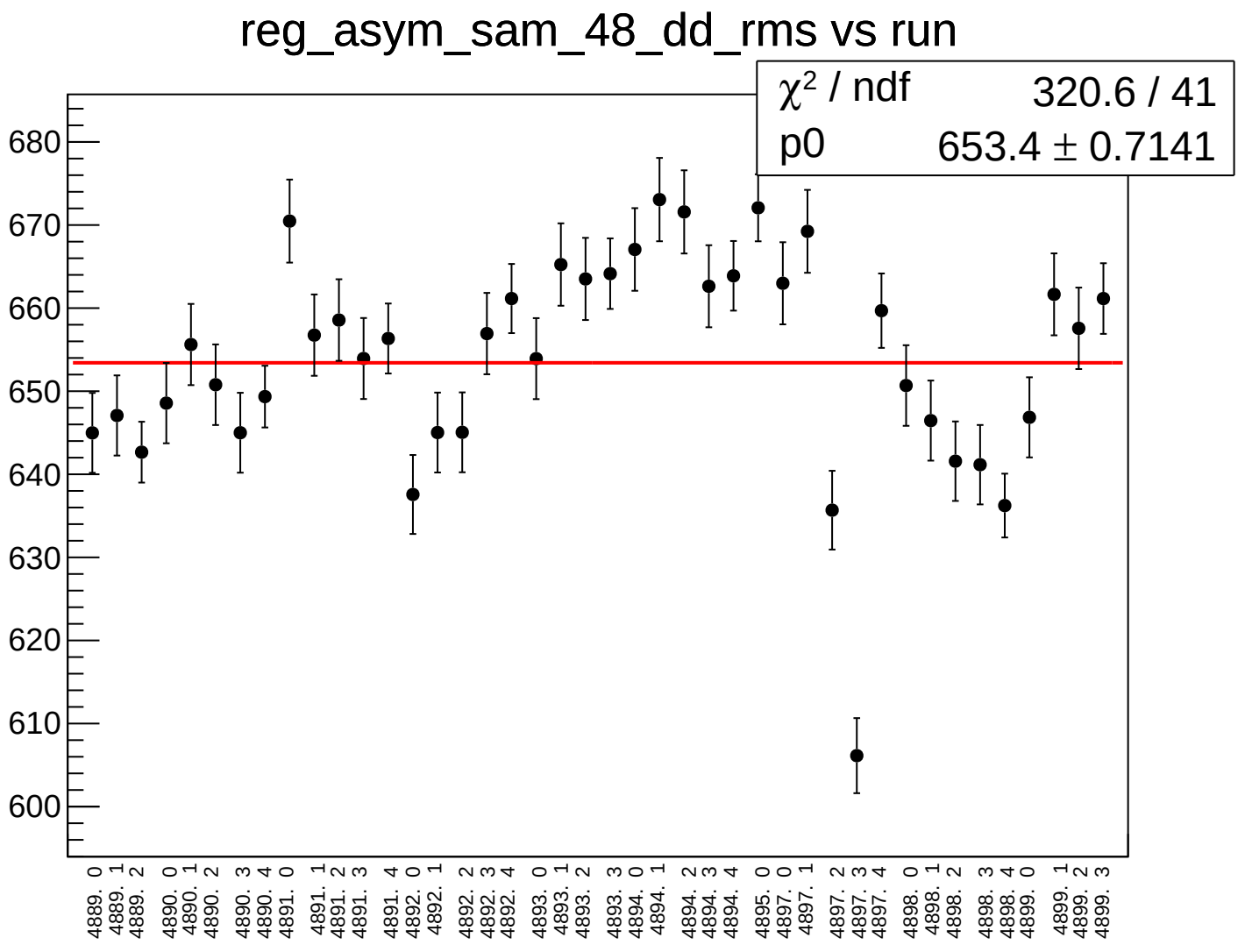

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 40.41 / 41
p0 −7310 ± 5306
100
50
0
−50
−100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 499.3
Std Dev 475.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

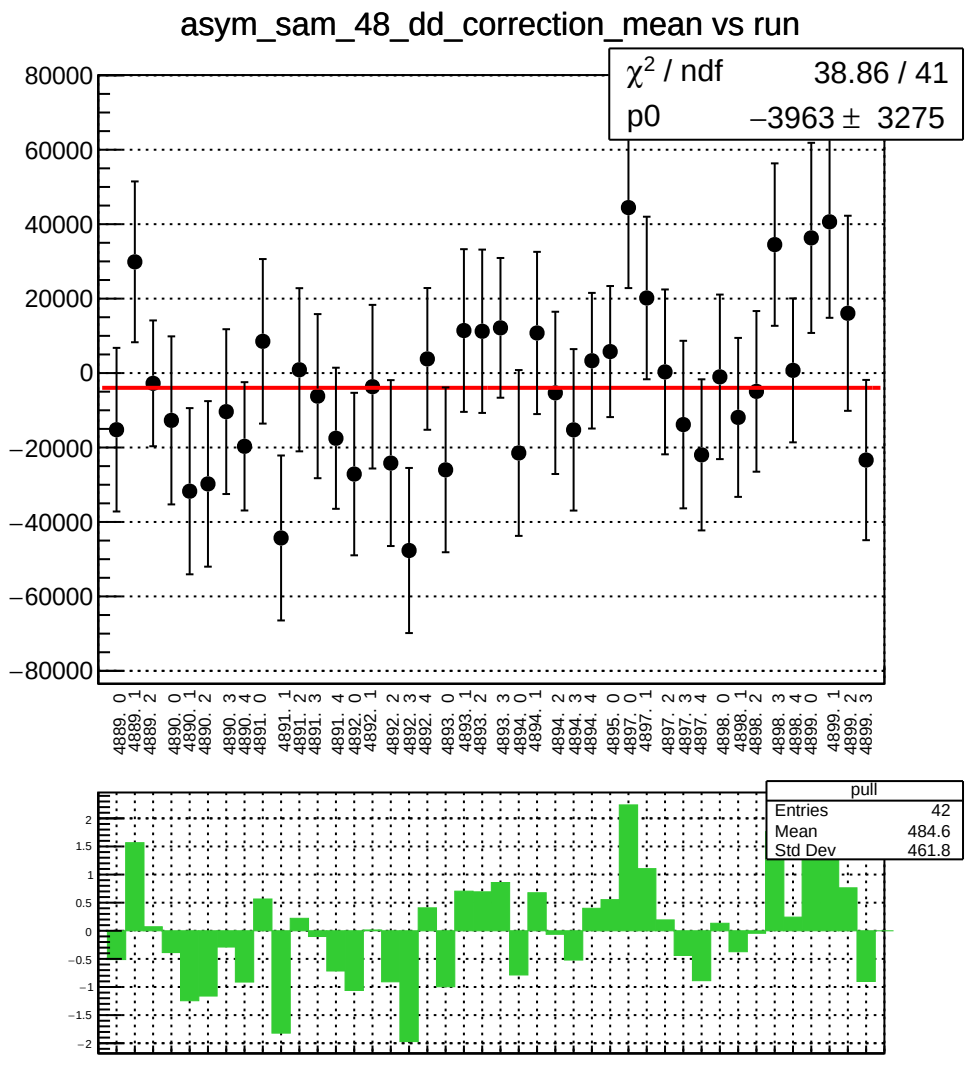

pull1D
Entries 42
Mean 0.008492
Std Dev 0.9809
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

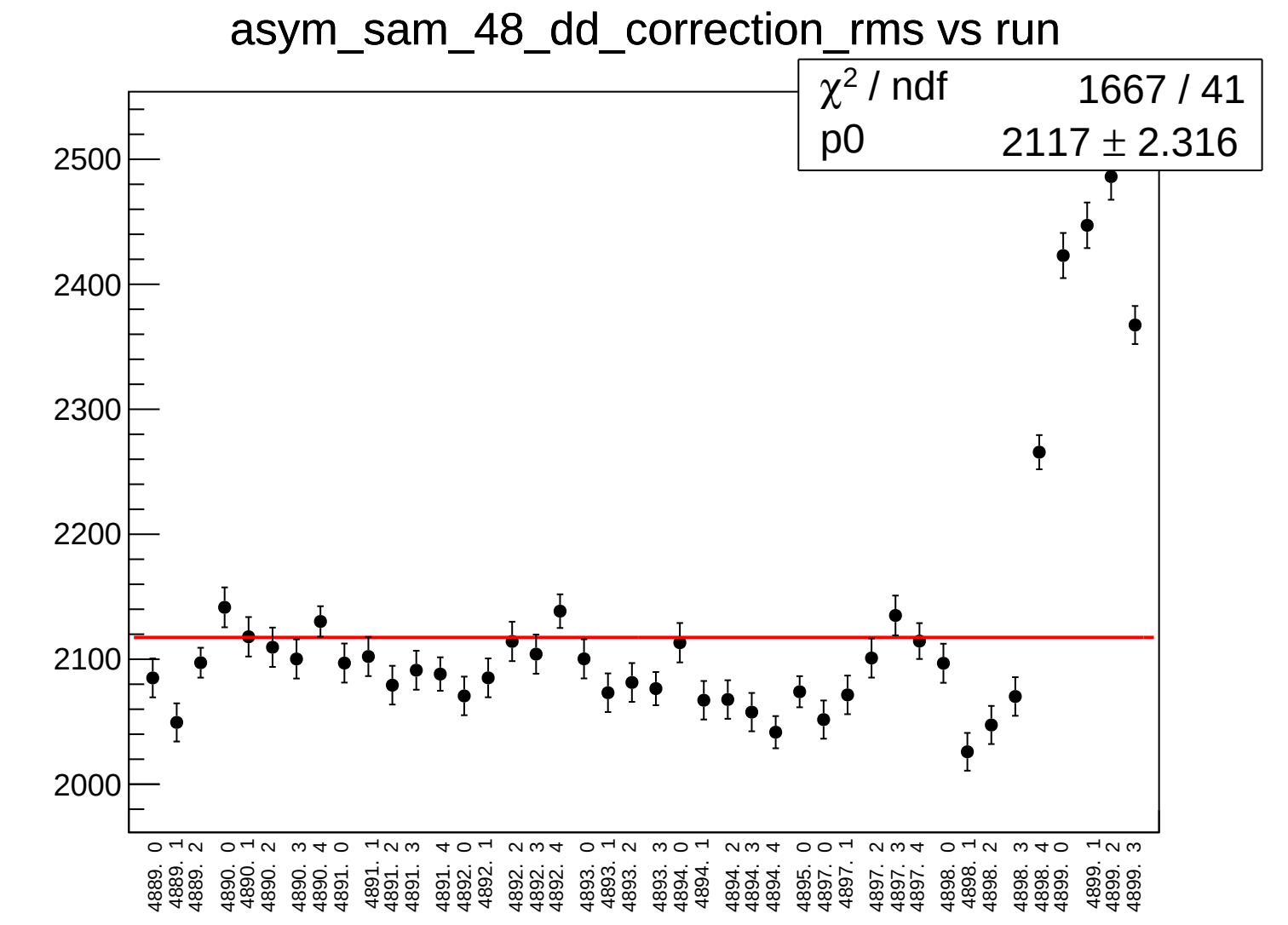

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2877 / 41
p0 3427 ± 3.752
4200
4000
3800
3600
3400
3200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

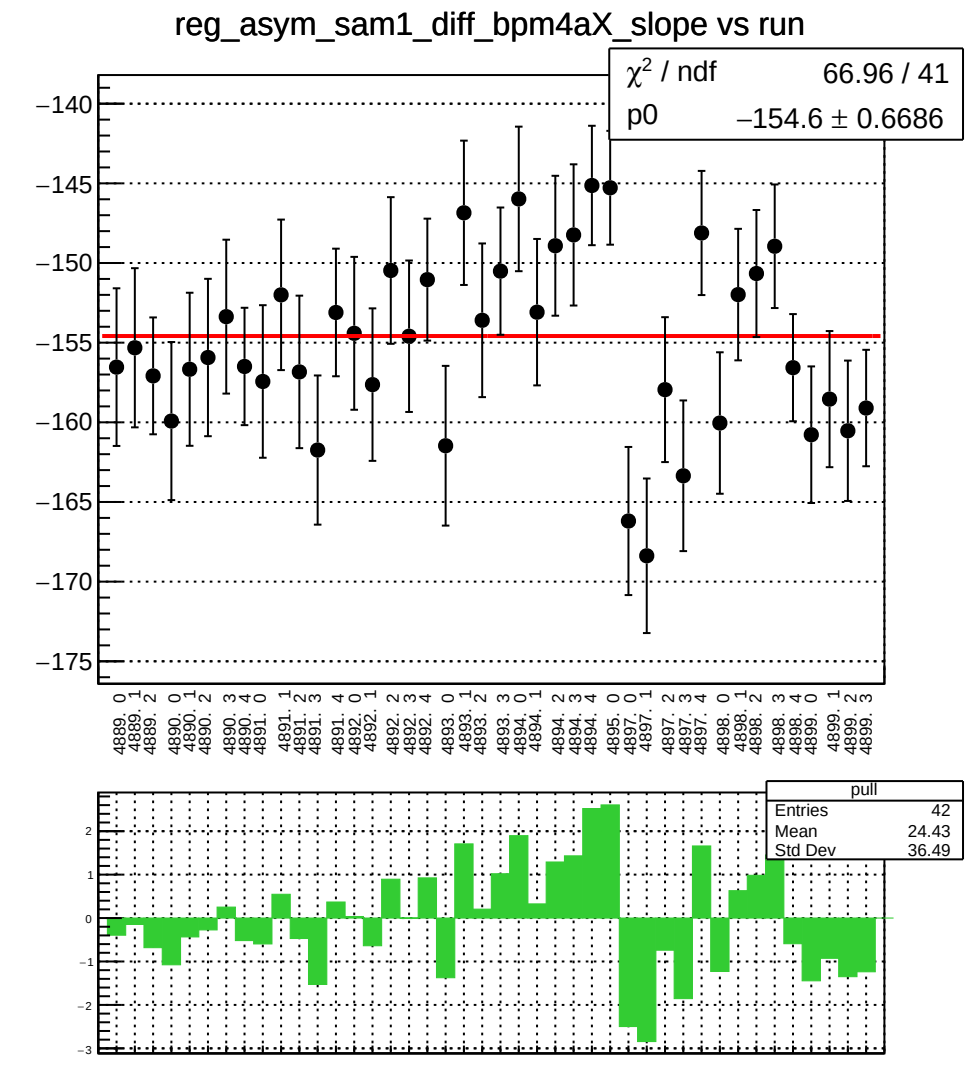

reg_asym_sam_48_dd_mean vs run
χ² / ndf 36.05 / 41
p0 −73.21± 1010
pull
Entries 42
Mean −305.8
Std Dev 322

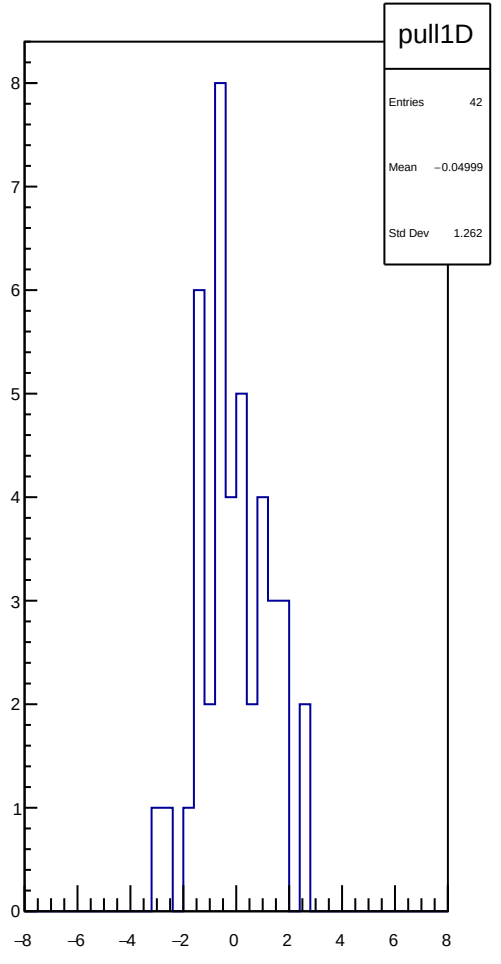

pull1D
Entries 42
Mean −0.004734
Std Dev 0.9265

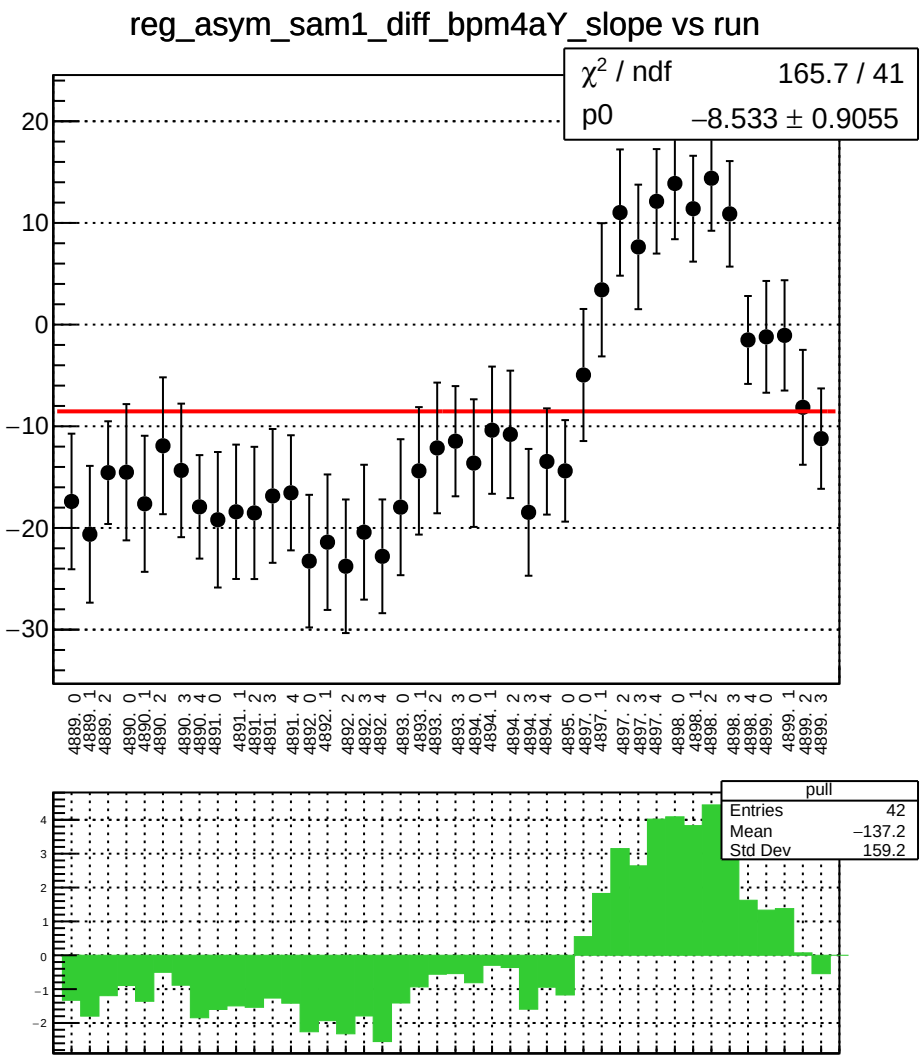

reg_asym_sam_48_dd_rms vs run
χ² / ndf 320.6 / 41
p0 653.4 ± 0.7141
680
670
660
650
640
630
620
610
600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

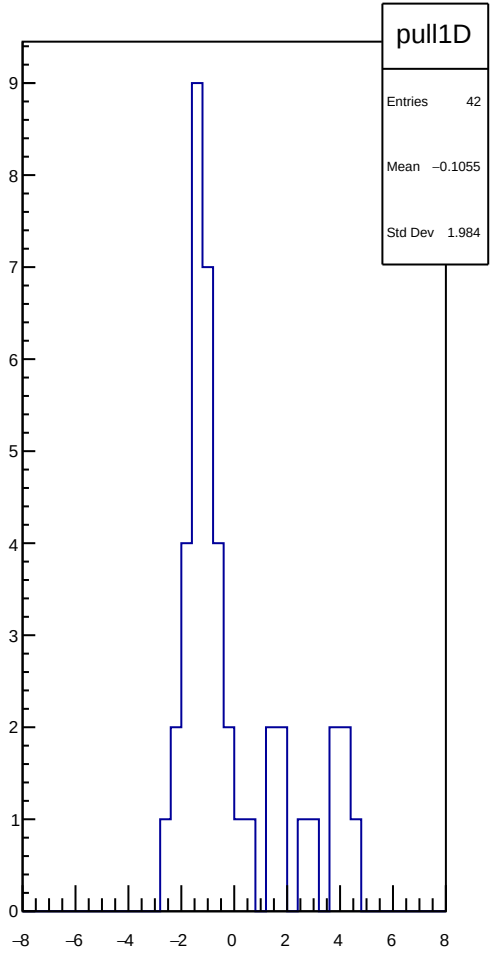

asym_sam_48_dd_correction_mean vs run
χ² / ndf 38.86 / 41
p0 −3963 ± 3275
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 484.6
Std Dev 461.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.009302
Std Dev 0.9618
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

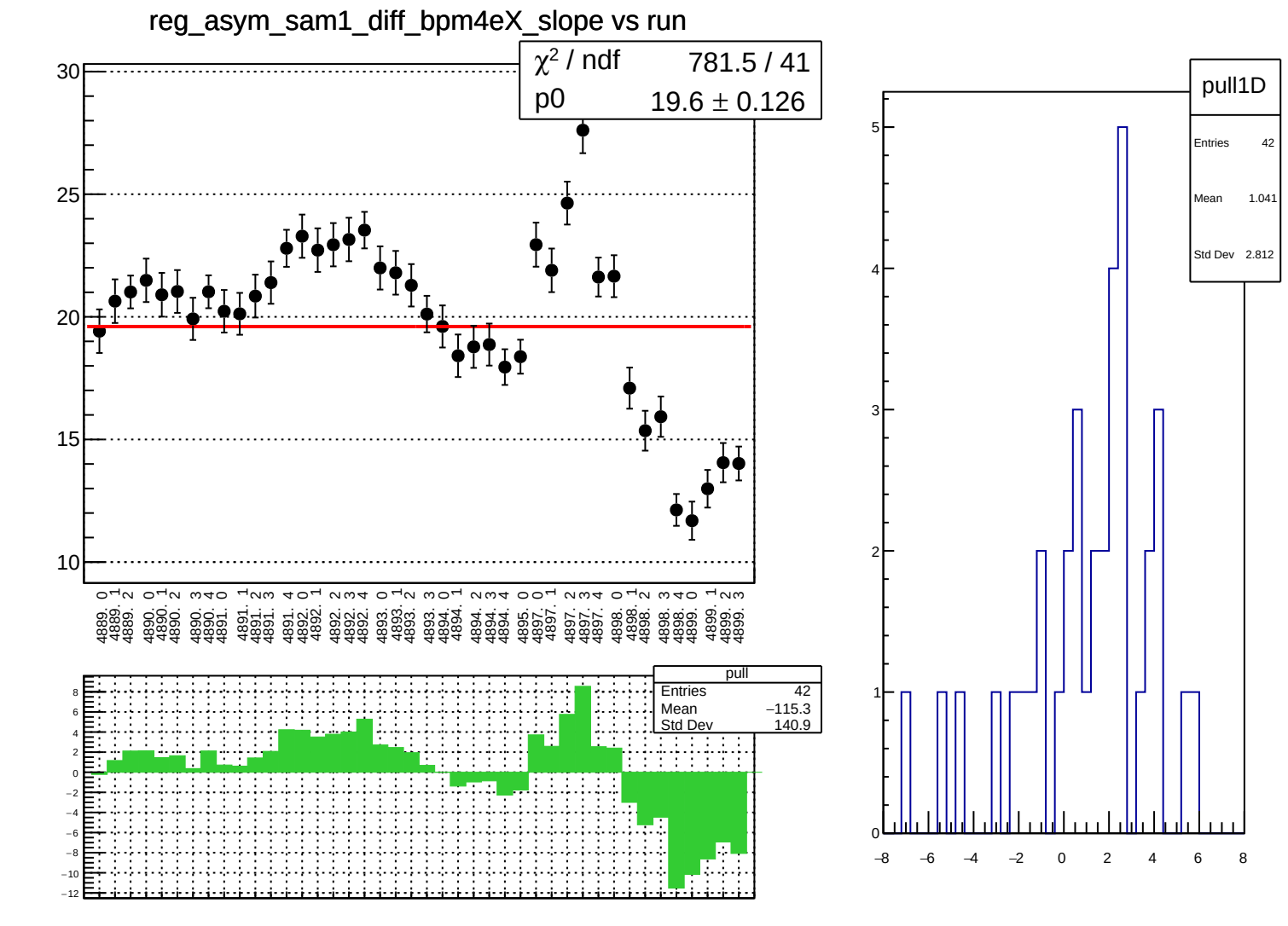

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1667 / 41
p0 2117 ± 2.316
2500
2400
2300
2200
2100
2000
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3

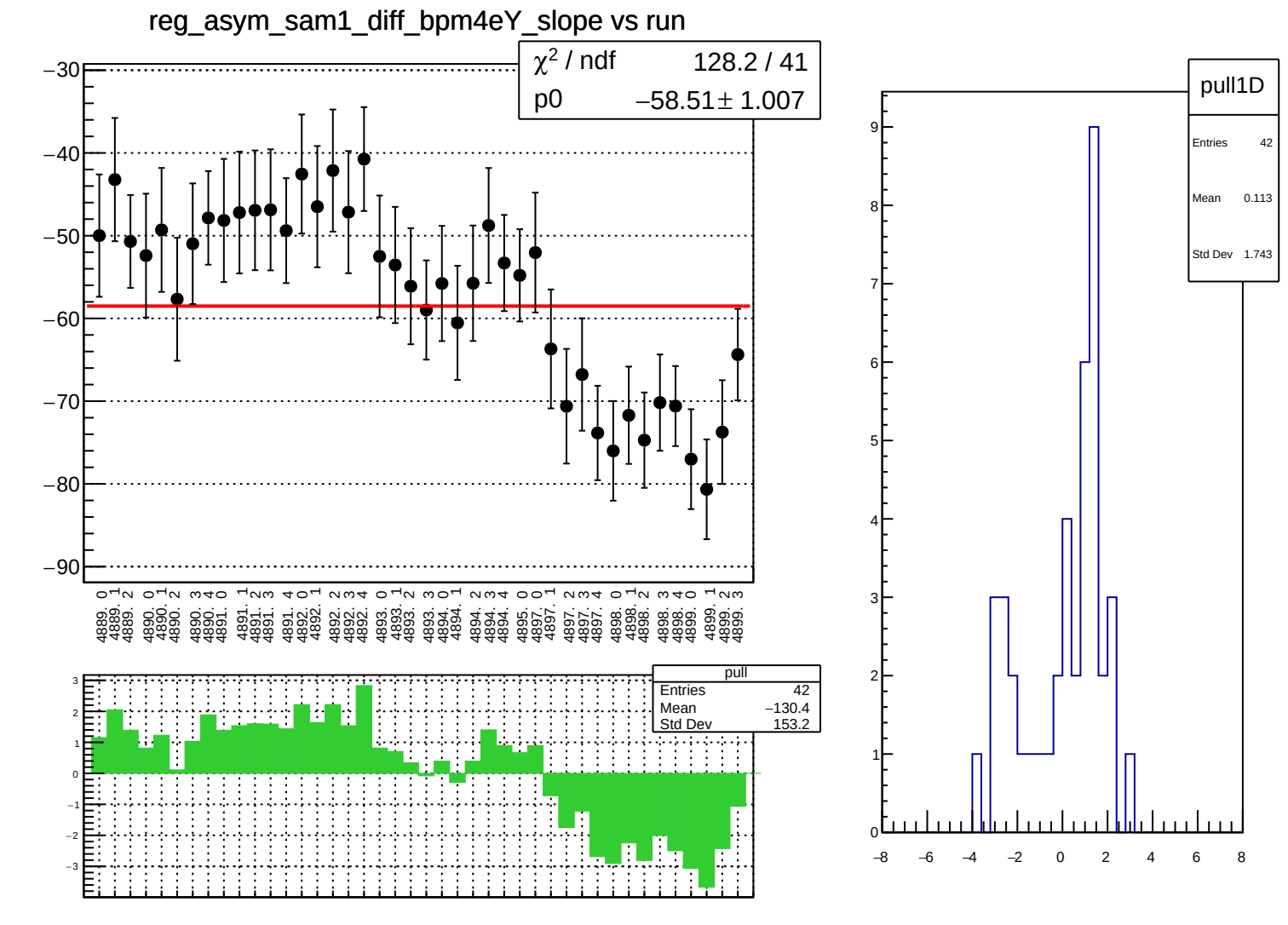

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 66.96 / 41
p0 −154.6 ± 0.6686
pull
Entries 42
Mean 24.43
Std Dev 36.49

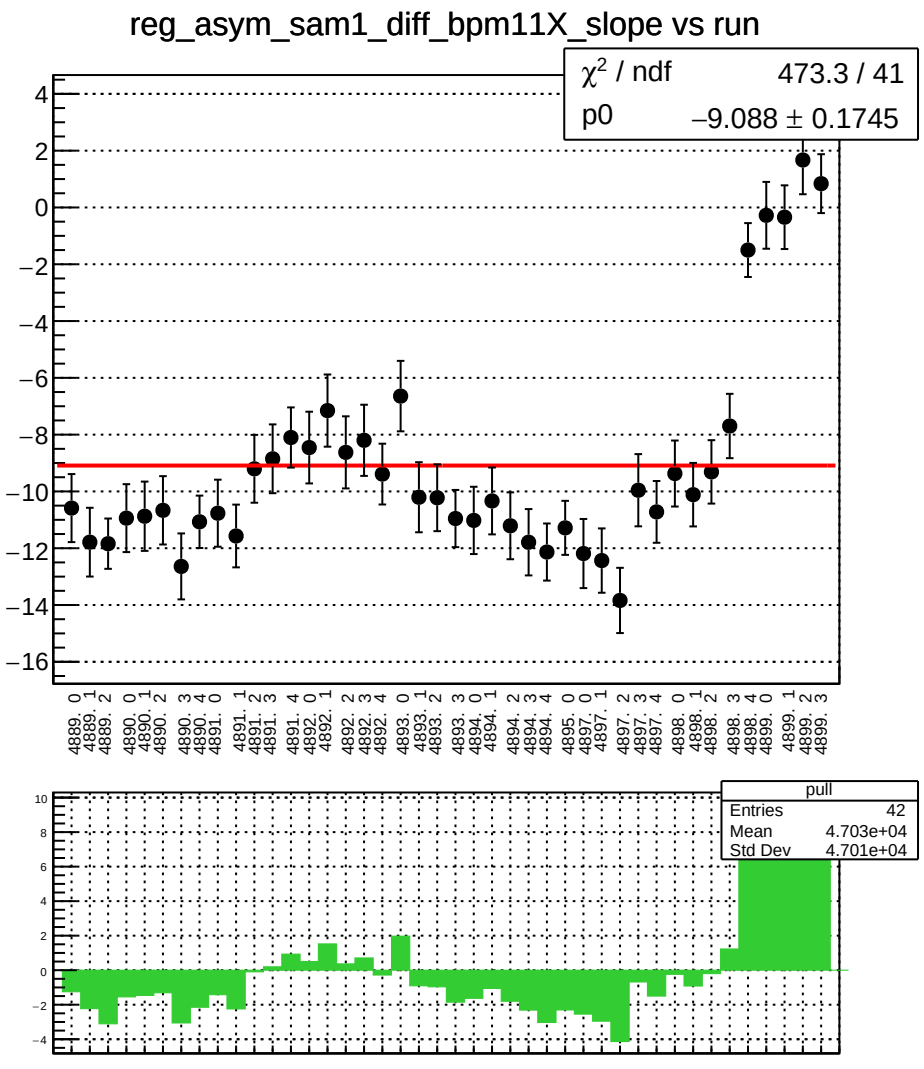

pull1D
Entries 42
Mean −0.04999
Std Dev 1.262

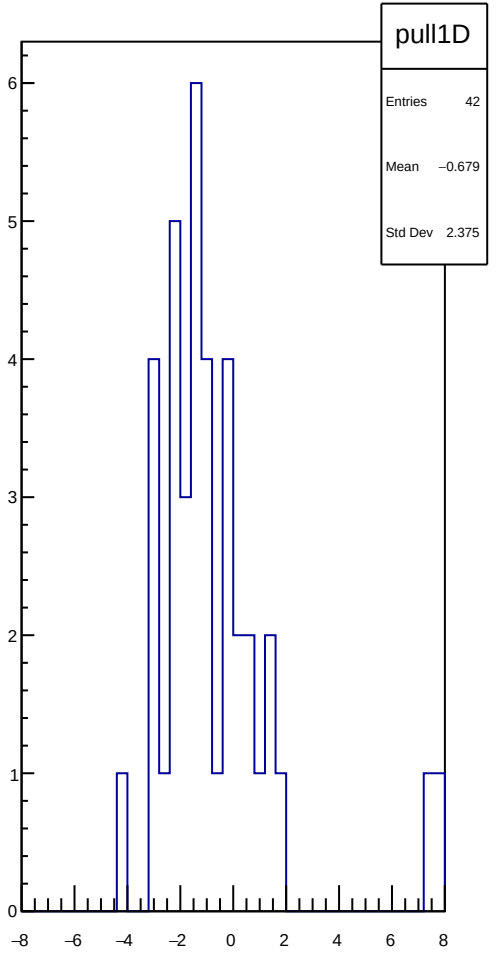

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 165.7 / 41
p0 −8.533 ± 0.9055
pull
Entries 42
Mean −137.2
Std Dev 159.2

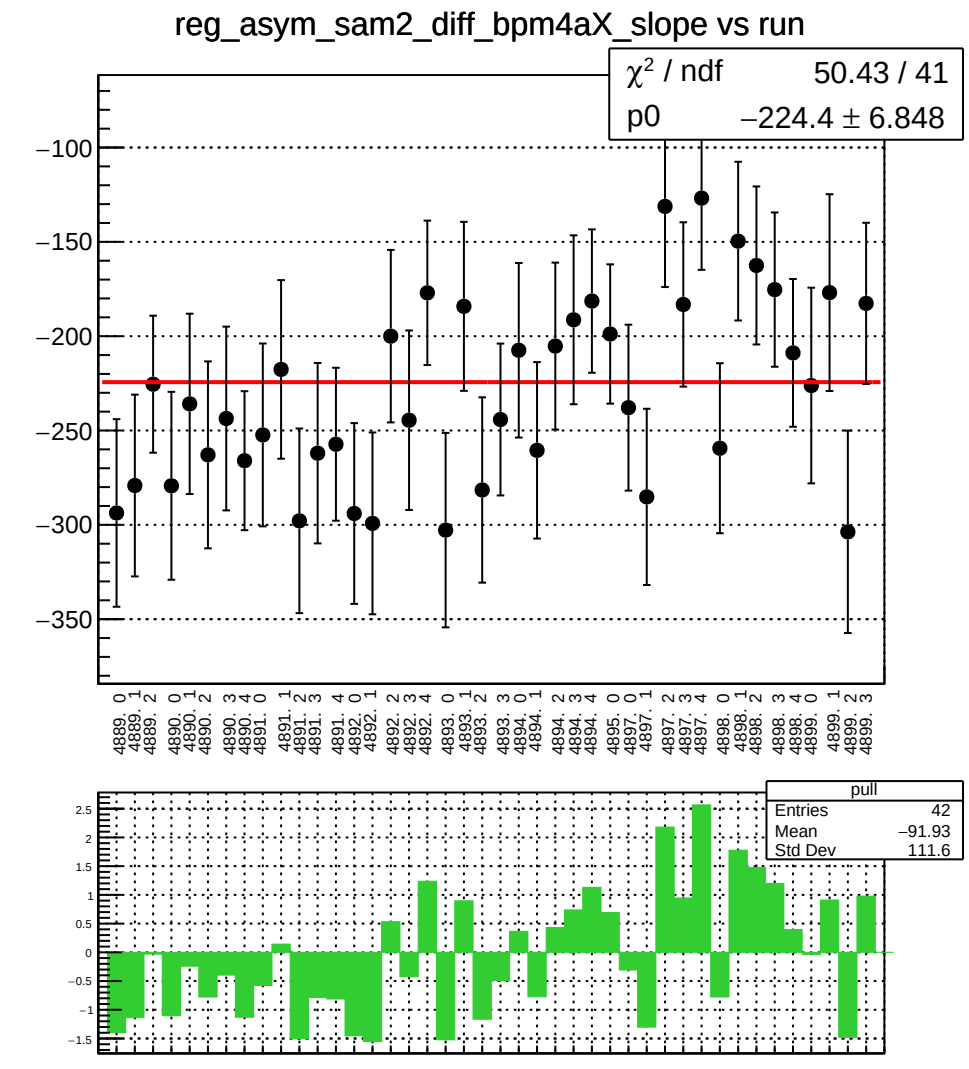

pull1D
Entries 42
Mean −0.1055
Std Dev 1.984

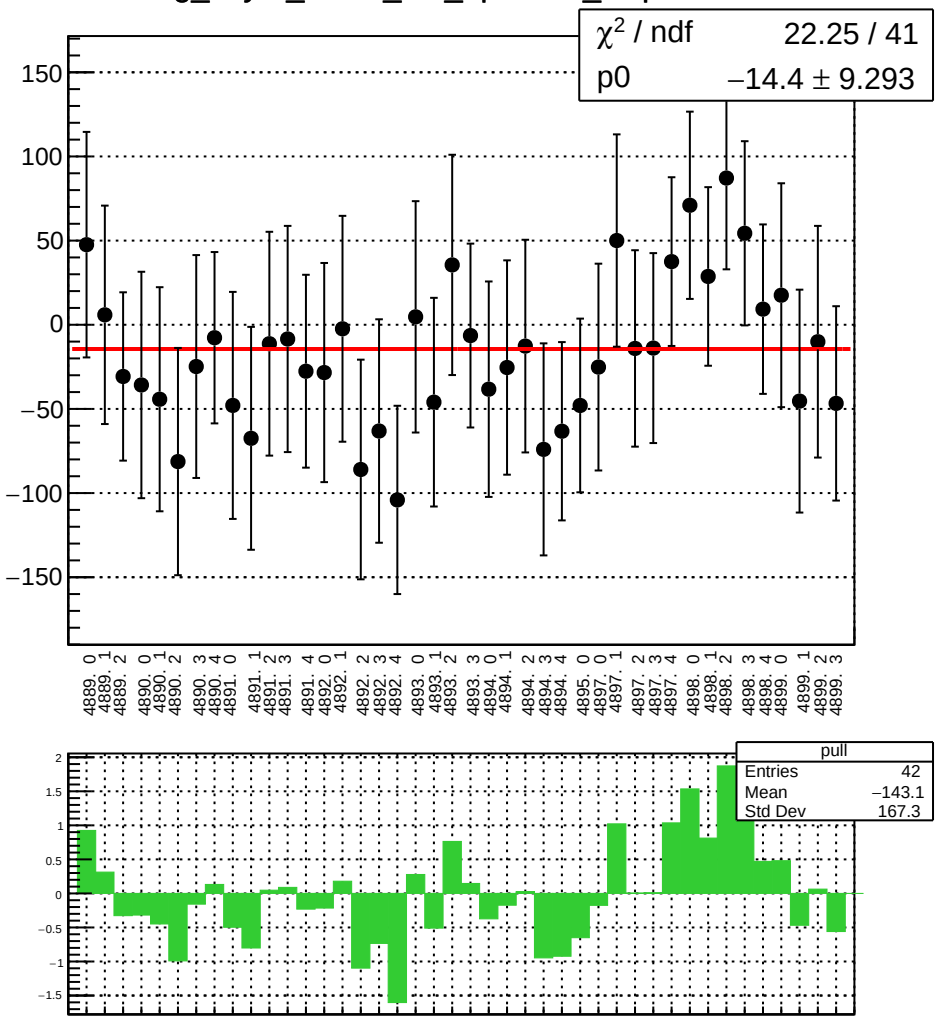

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 781.5 / 41
p0 19.6 ± 0.126
pull
Entries 42
Mean −115.3
Std Dev 140.9
pull1D
Entries 42
Mean 1.041
Std Dev 2.812

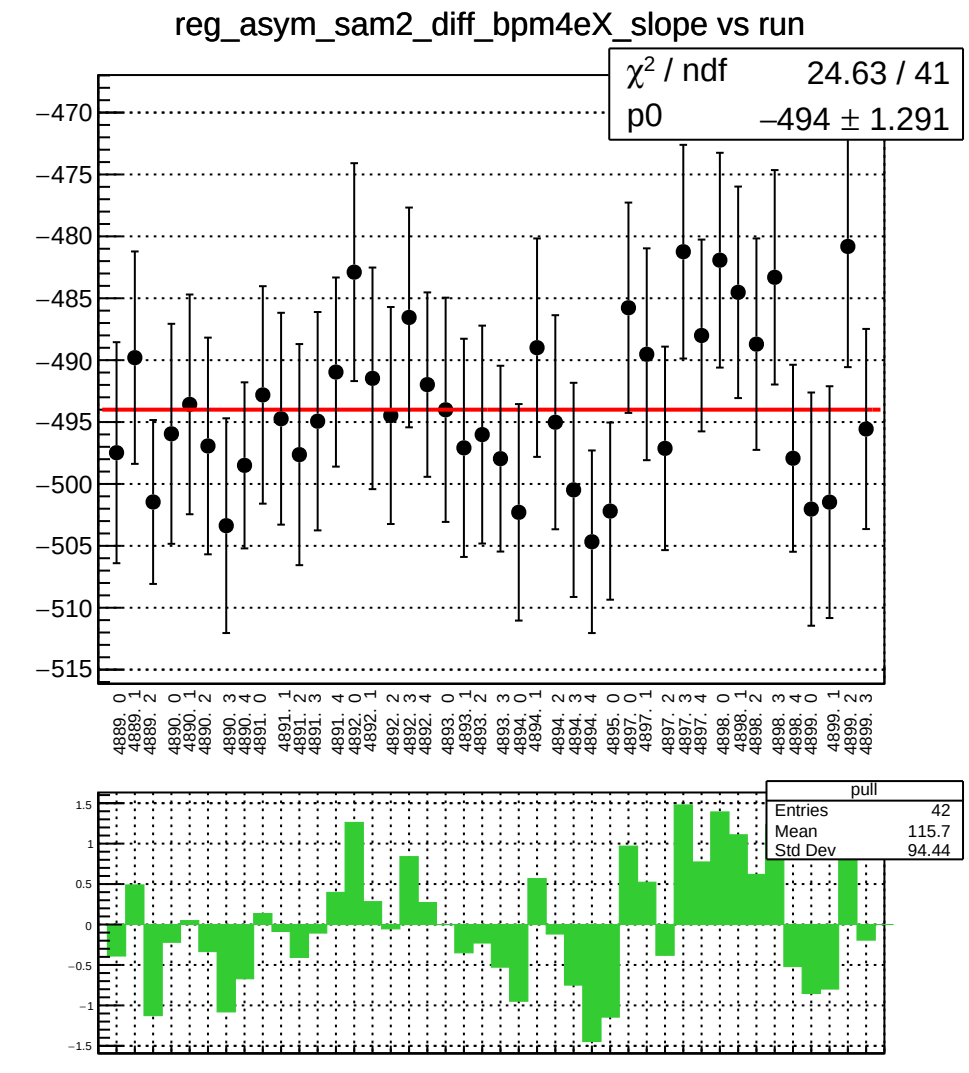

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 128.2 / 41
p0 −58.51 ± 1.007
pull
Entries 42
Mean −130.4
Std Dev 153.2
pull1D
Entries 42
Mean 0.113
Std Dev 1.743

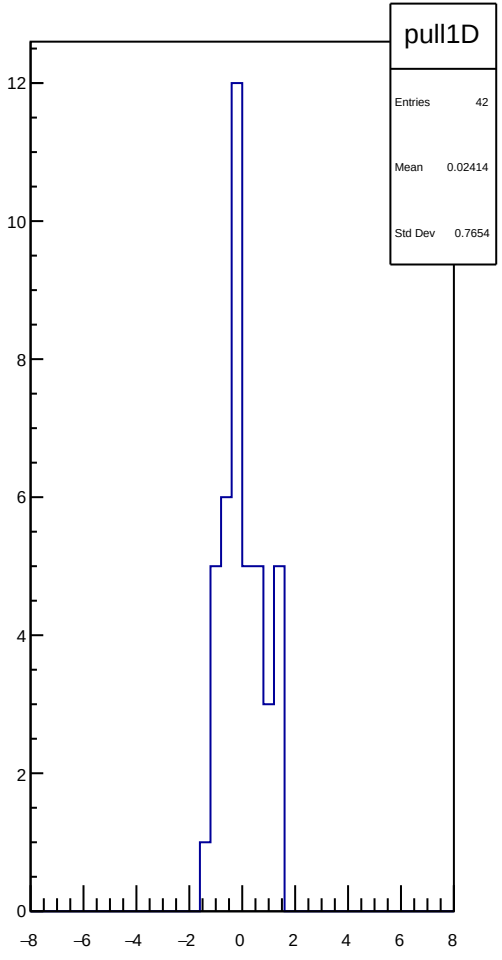

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 473.3 / 41
p0 −9.088 ± 0.1745
pull
Entries 42
Mean 4.703e+04
Std Dev 4.701e+04

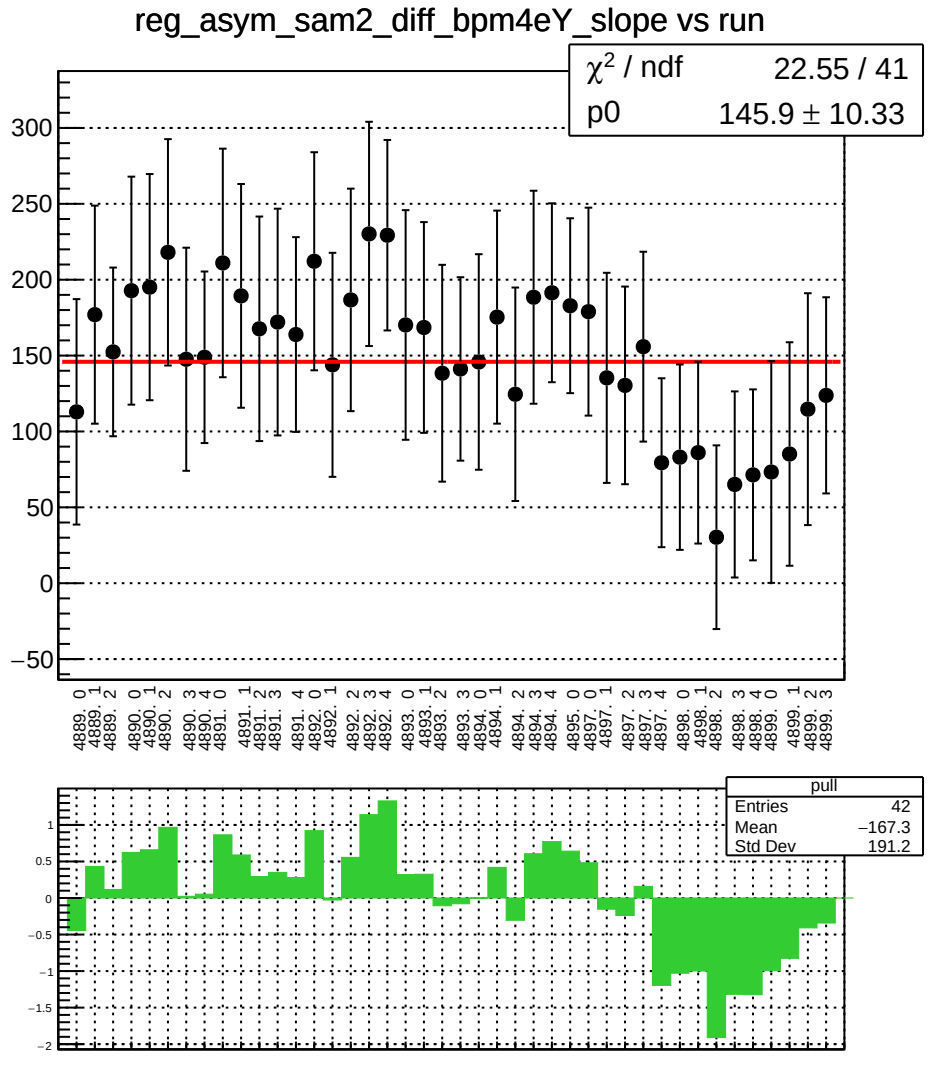

pull1D
Entries 42
Mean −0.679
Std Dev 2.375

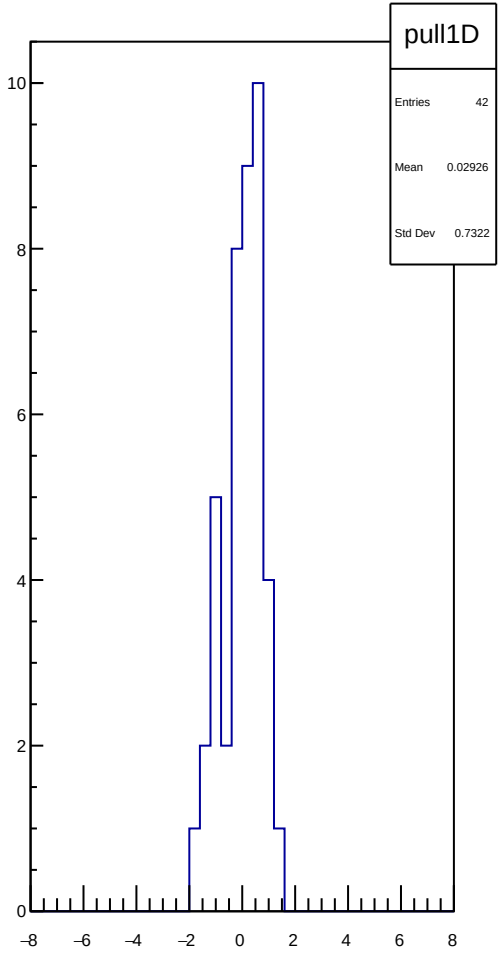

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 50.43 / 41
p0 −224.4 ± 6.848
−100
−150
−200
−250
−300
−350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −91.93
Std Dev 111.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.06135
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

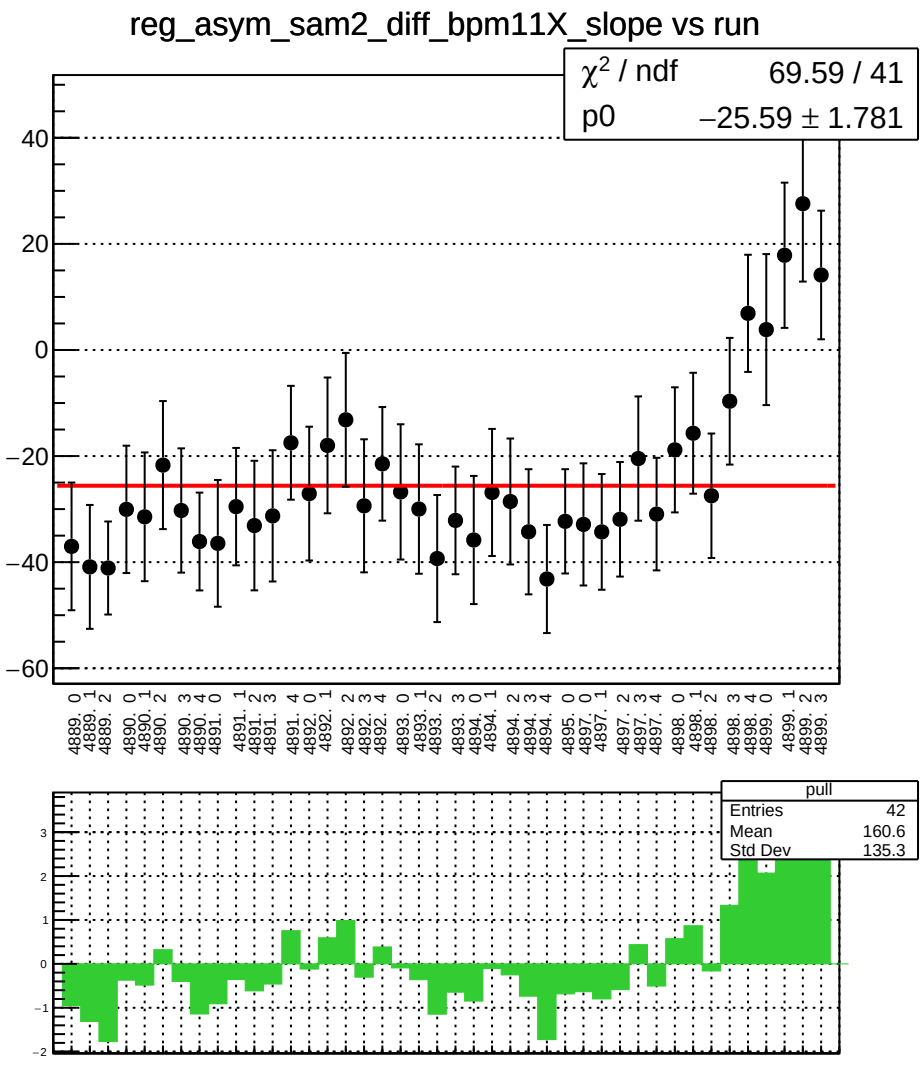

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 22.25 / 41
p0 −14.4 ± 9.293
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −143.1
Std Dev 167.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.01742
Std Dev 0.7276
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

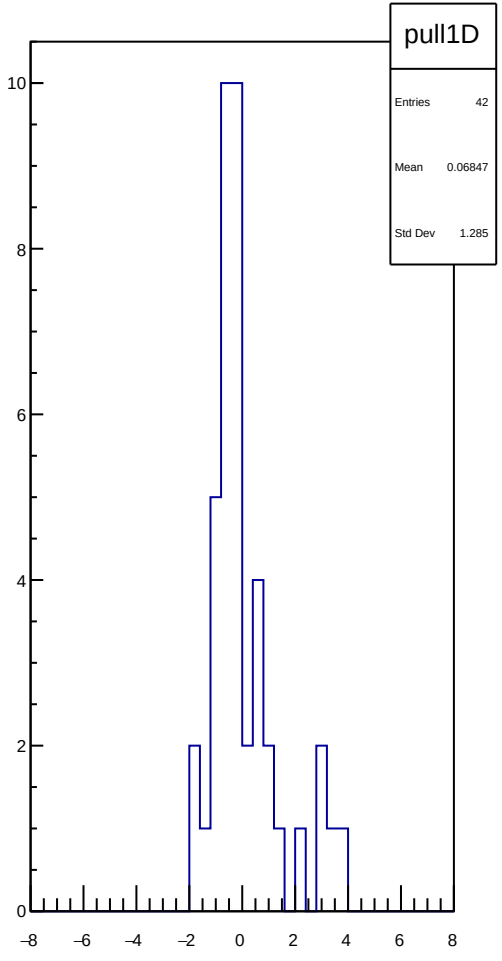

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 24.63 / 41
p0 −494 ± 1.291
pull
Entries 42
Mean 115.7
Std Dev 94.44

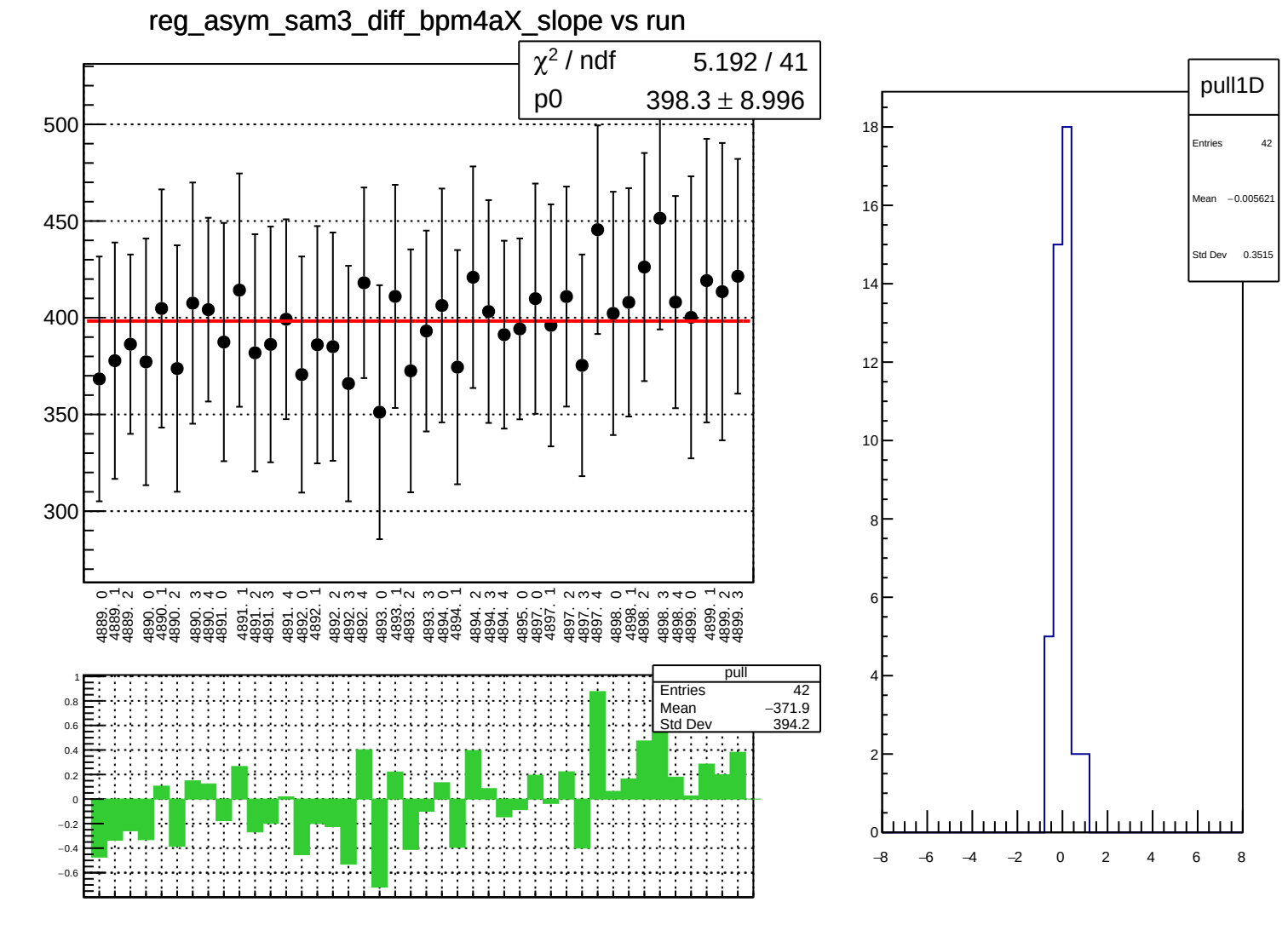

pull1D
Entries 42
Mean 0.02414
Std Dev 0.7654

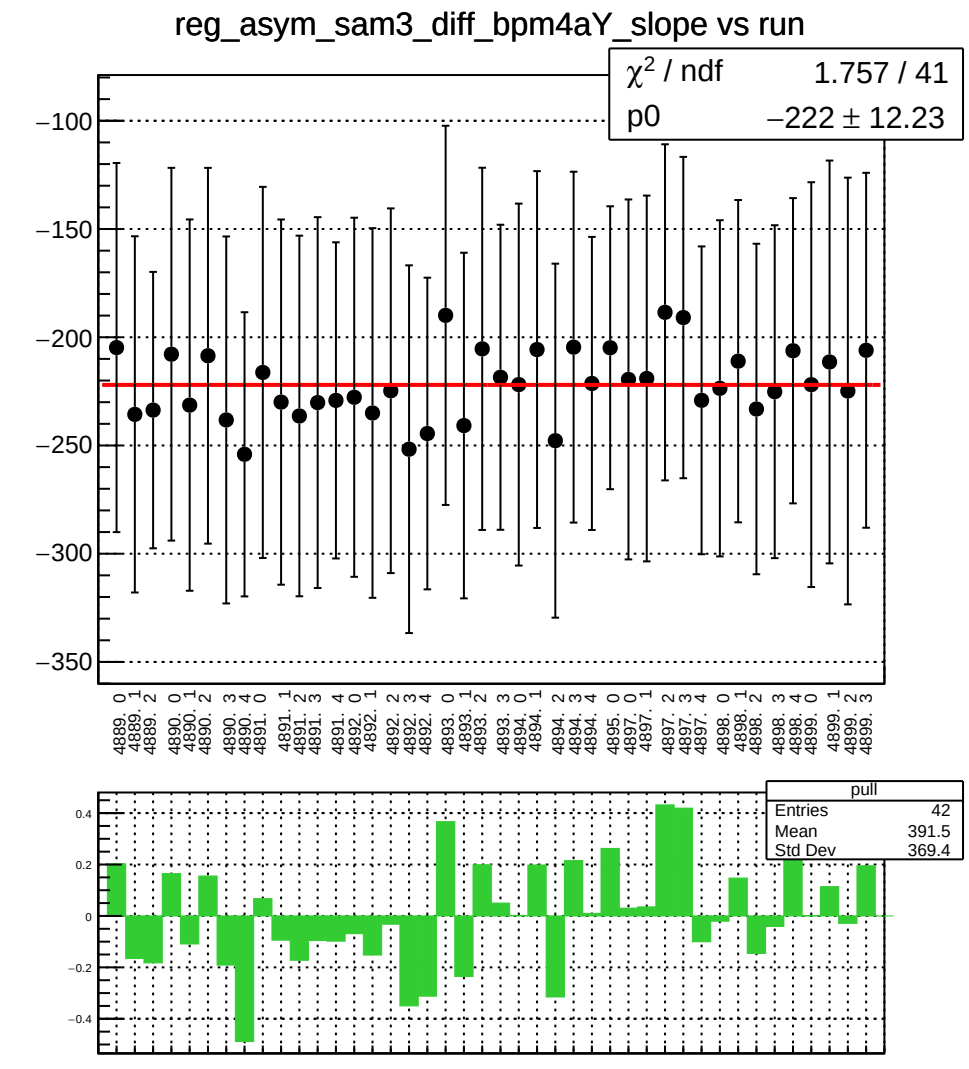

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 22.55 / 41
p0 145.9 ± 10.33
pull
Entries 42
Mean −167.3
Std Dev 191.2

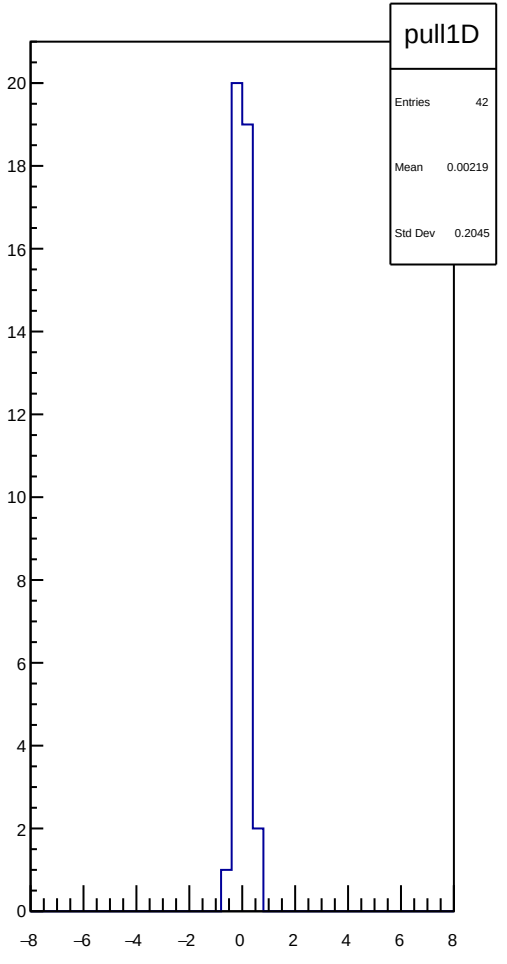

pull1D
Entries 42
Mean 0.02926
Std Dev 0.7322

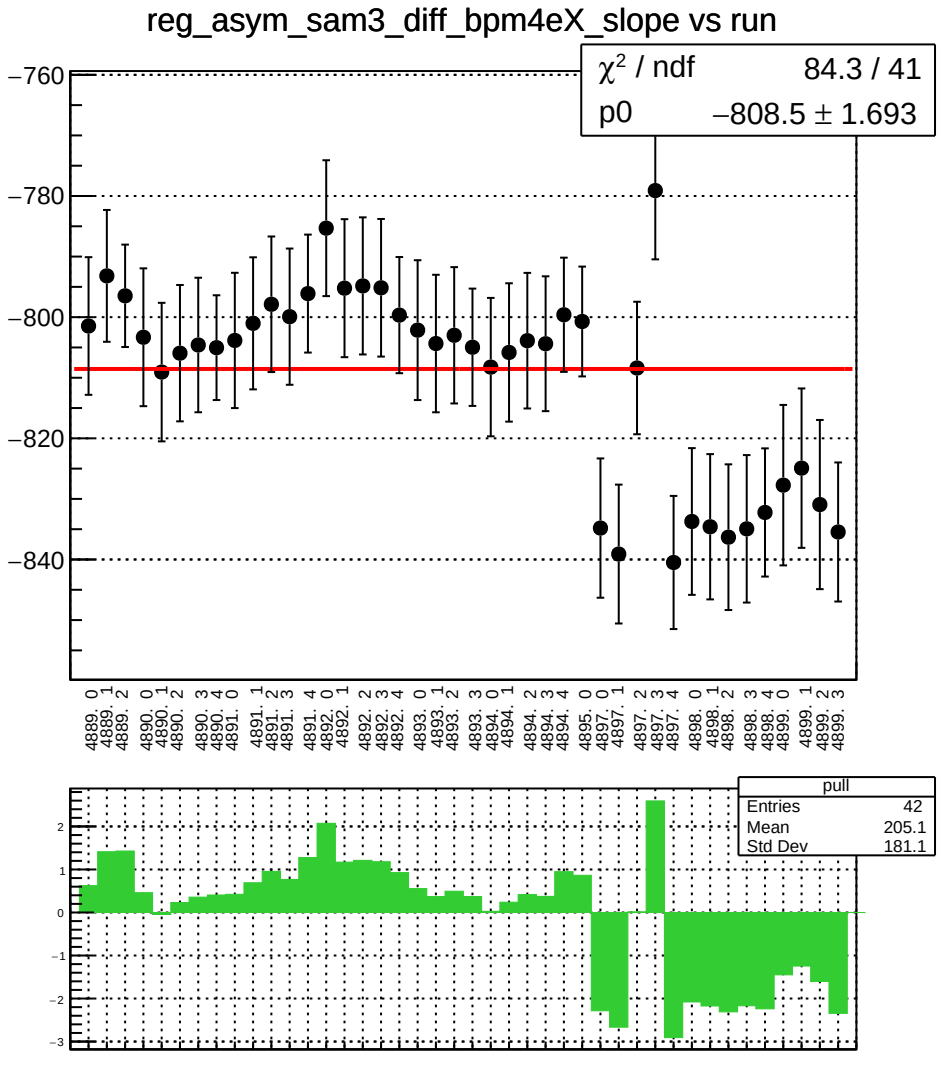

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 69.59 / 41
p0 −25.59 ± 1.781
pull
Entries 42
Mean 160.6
Std Dev 135.3

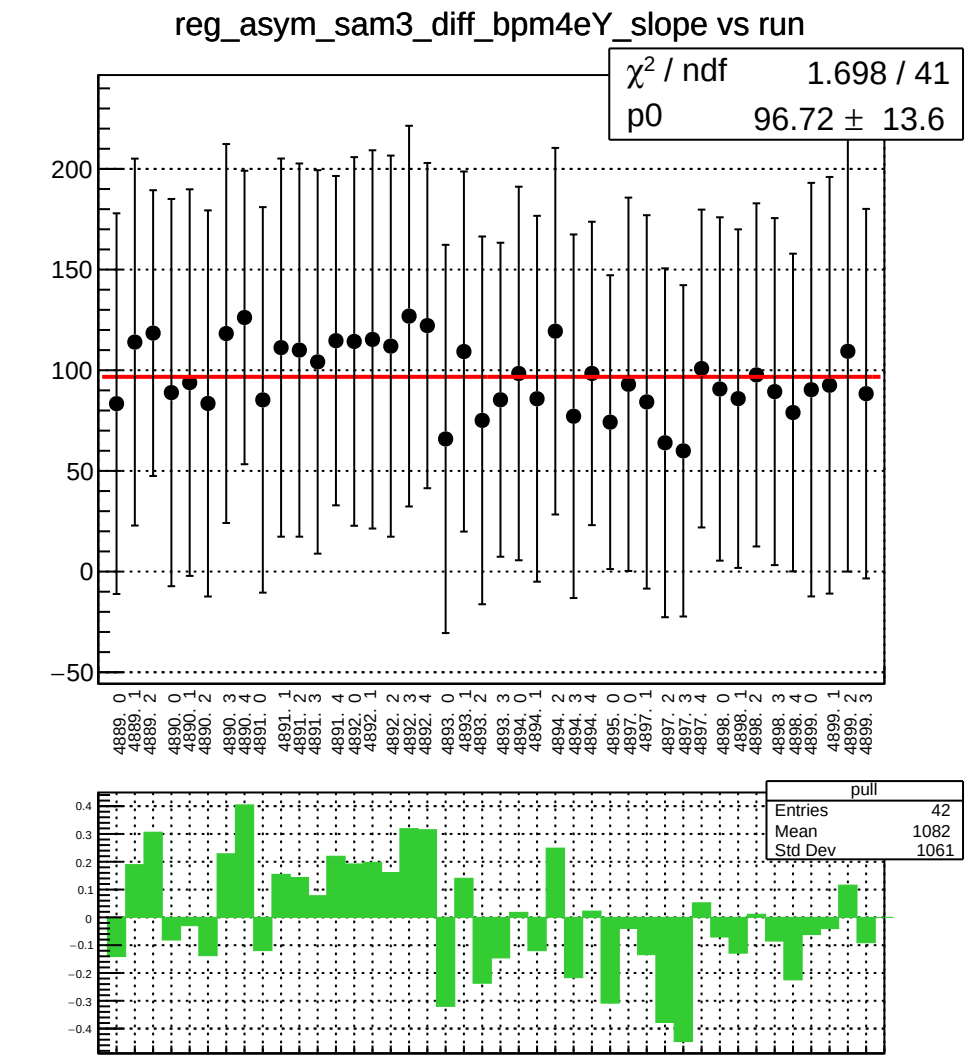

pull1D
Entries 42
Mean 0.06847
Std Dev 1.285

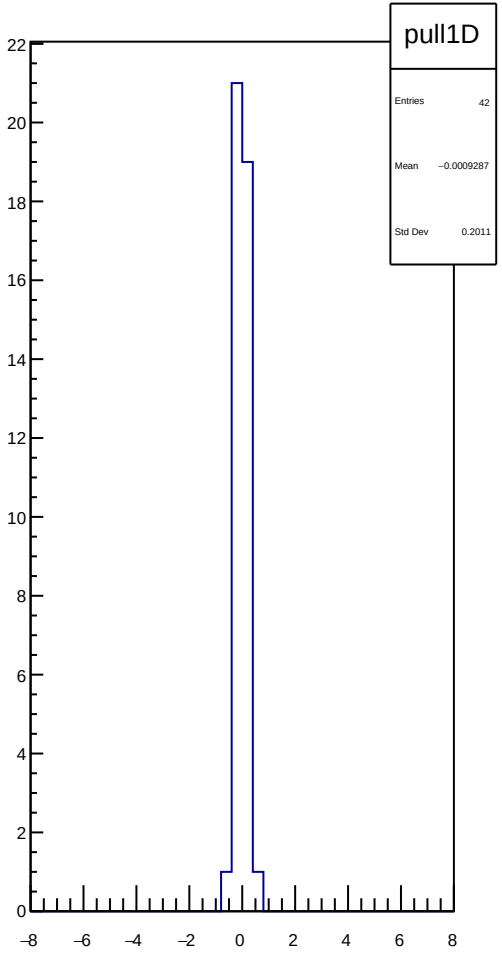

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 5.192 / 41
p0 398.3 ± 8.996
500
450
400
350
300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −371.9
Std Dev 394.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.005621
Std Dev 0.3515
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

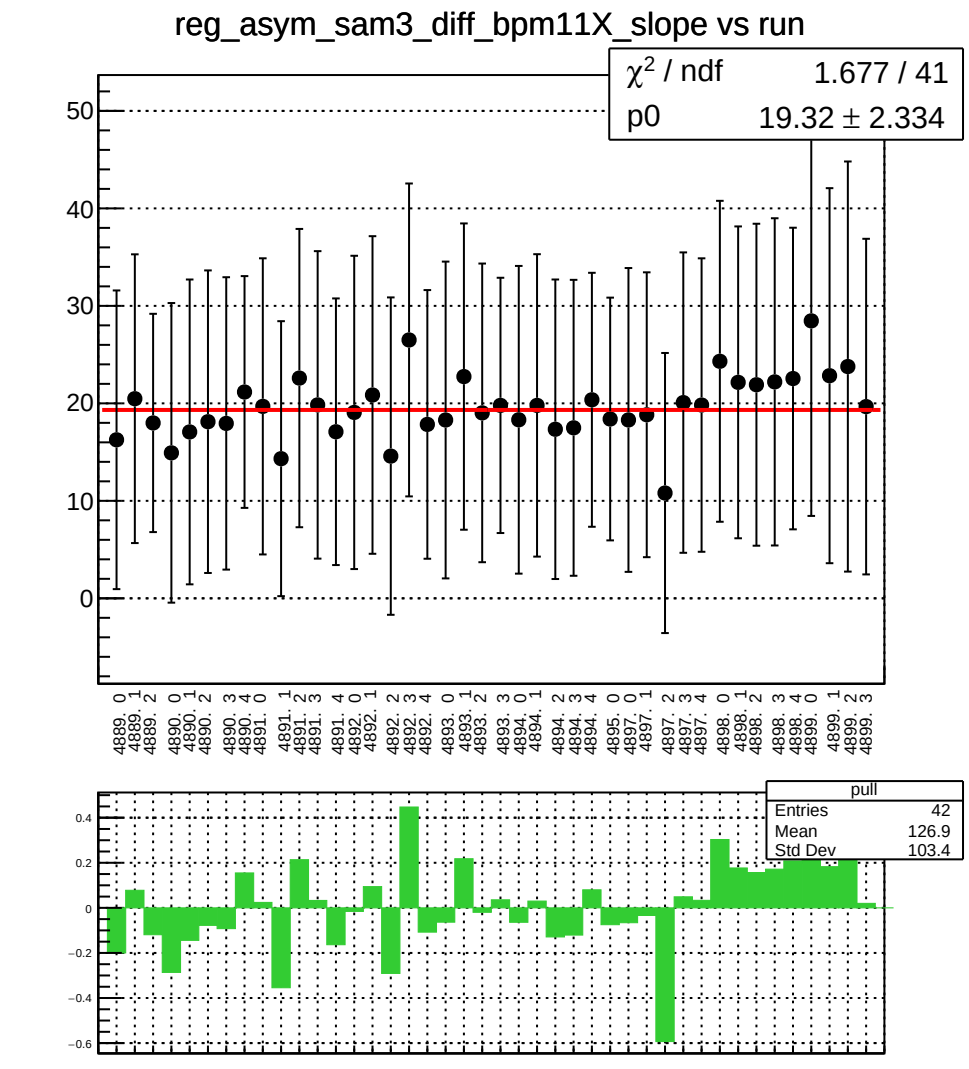

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.757 / 41
p0 −222 ± 12.23
−100
−150
−200
−250
−300
−350
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 391.5
Std Dev 369.4
0.4
0.2
0
−0.2
−0.4

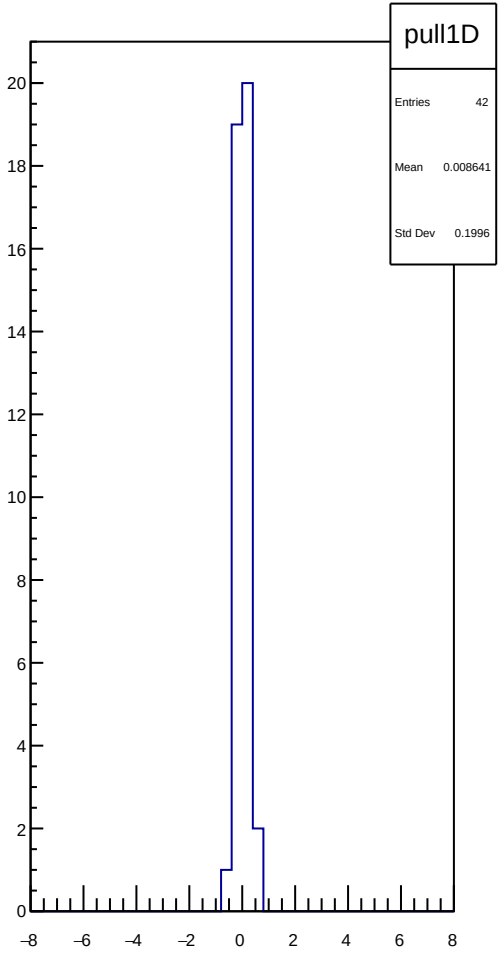

pull1D
Entries 42
Mean 0.00219
Std Dev 0.2045
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

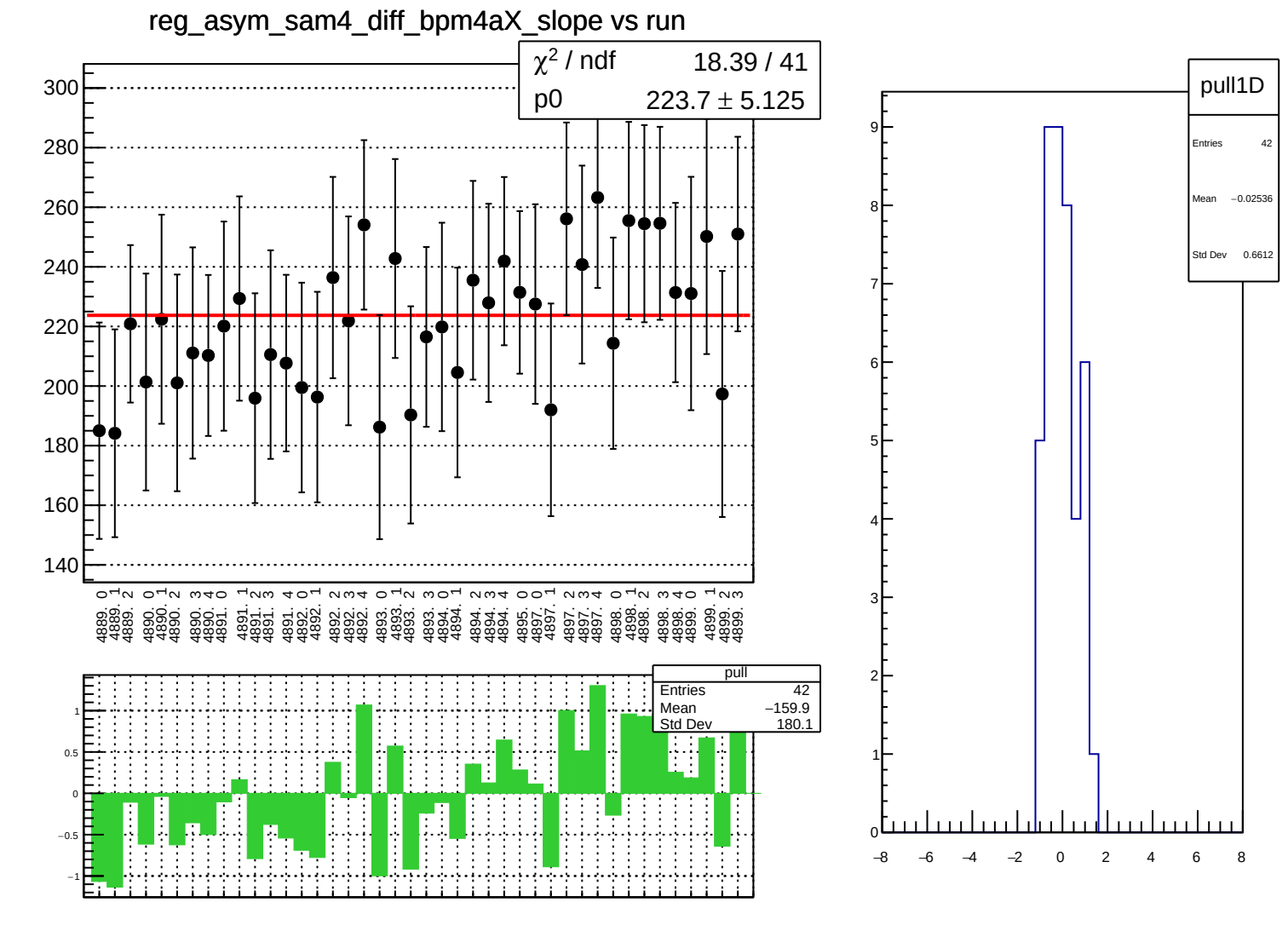

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 84.3 / 41
p0 −808.5 ± 1.693
−760
−780
−800
−820
−840
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 205.1
Std Dev 181.1
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.06317
Std Dev 1.415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

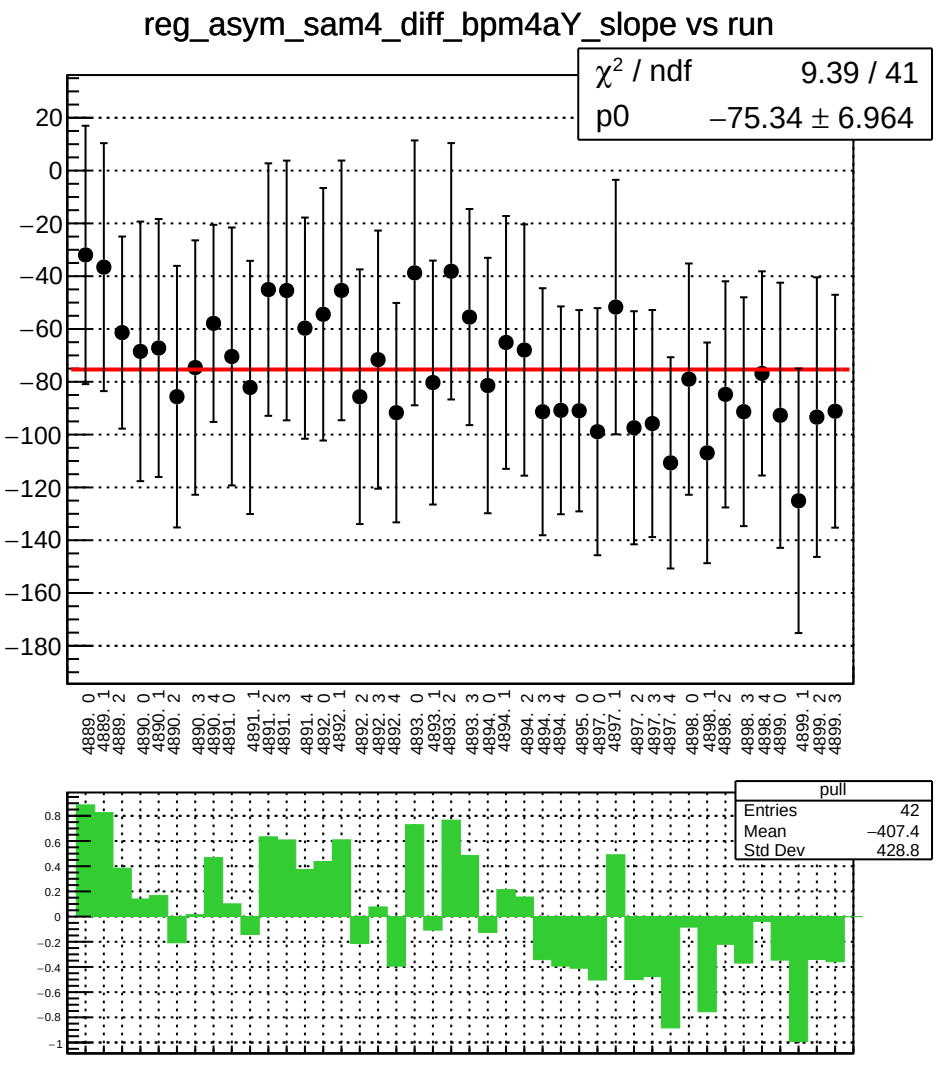

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.698 / 41
p0 96.72 ± 13.6
200
150
100
50
0
−50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1082
Std Dev 1061
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

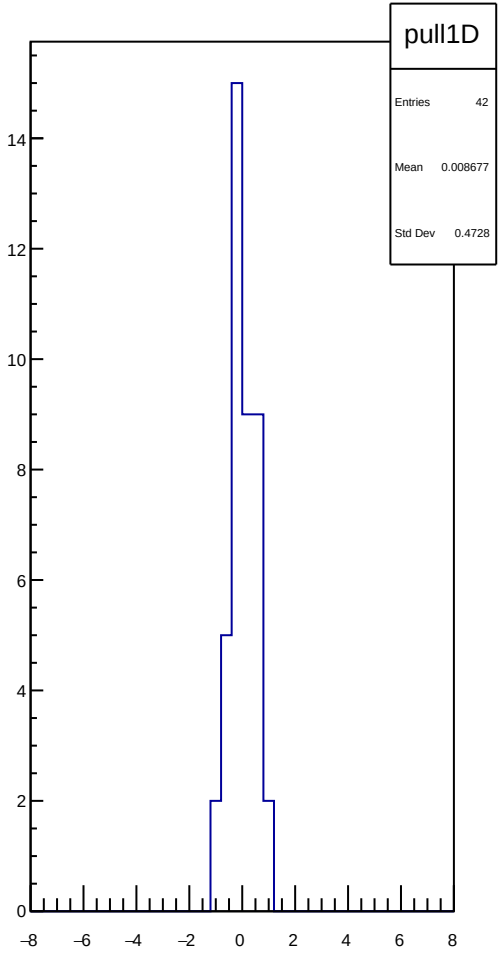

pull1D
Entries 42
Mean −0.0009287
Std Dev 0.2011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

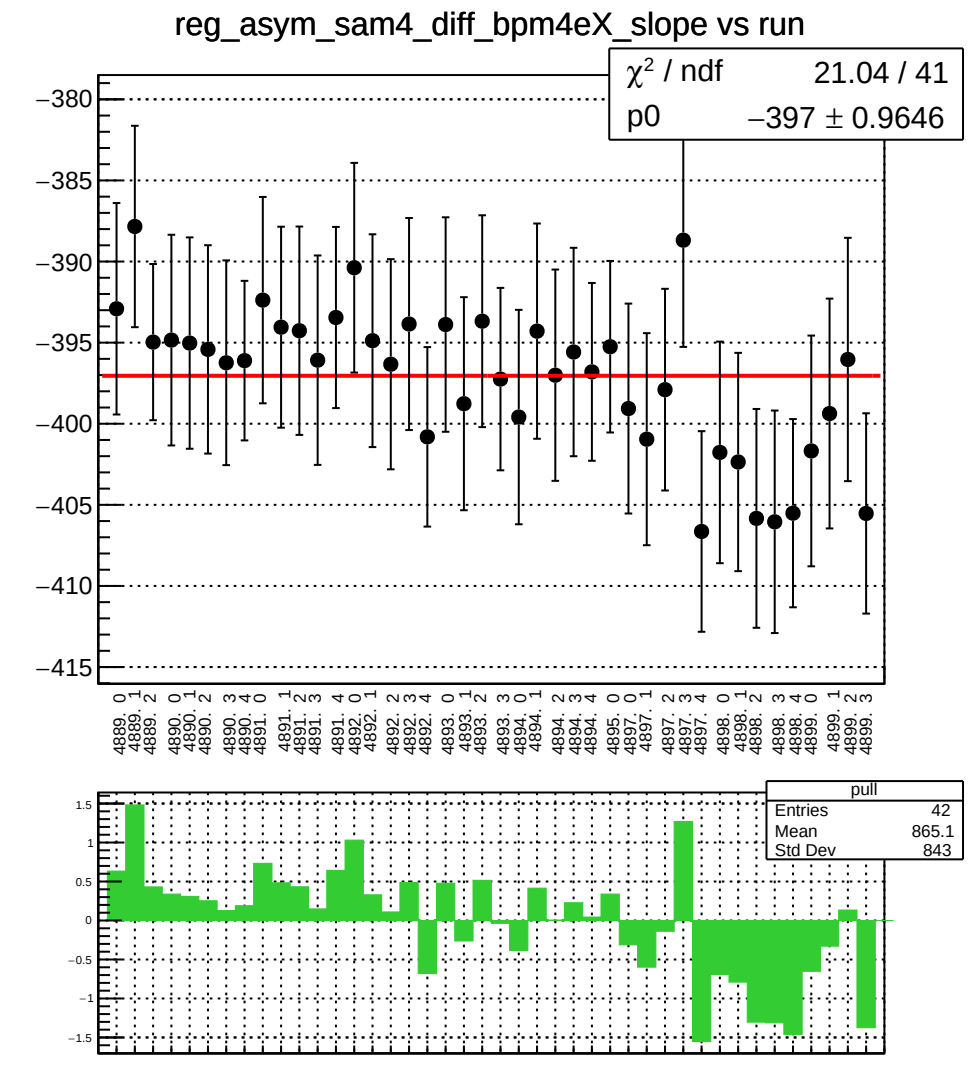

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.677 / 41
p0 19.32 ± 2.334
pull
Entries 42
Mean 126.9
Std Dev 103.4

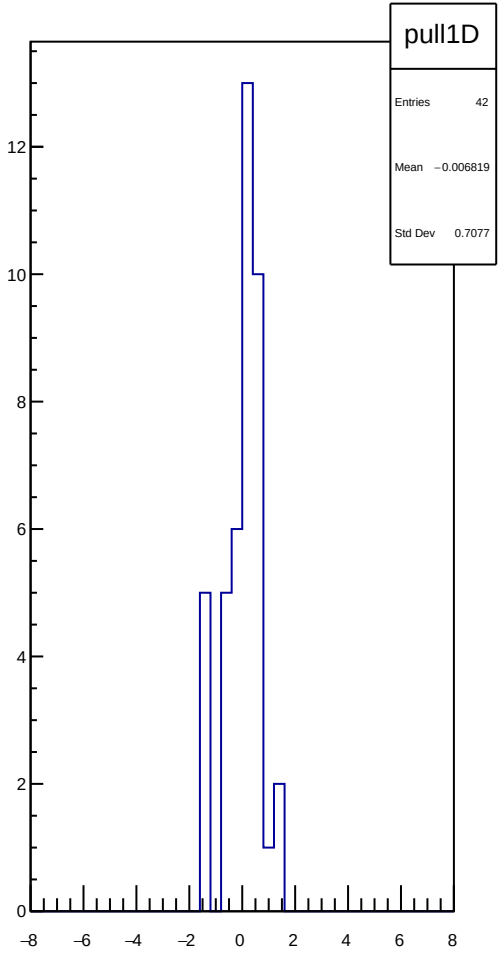

pull1D
Entries 42
Mean 0.008641
Std Dev 0.1996

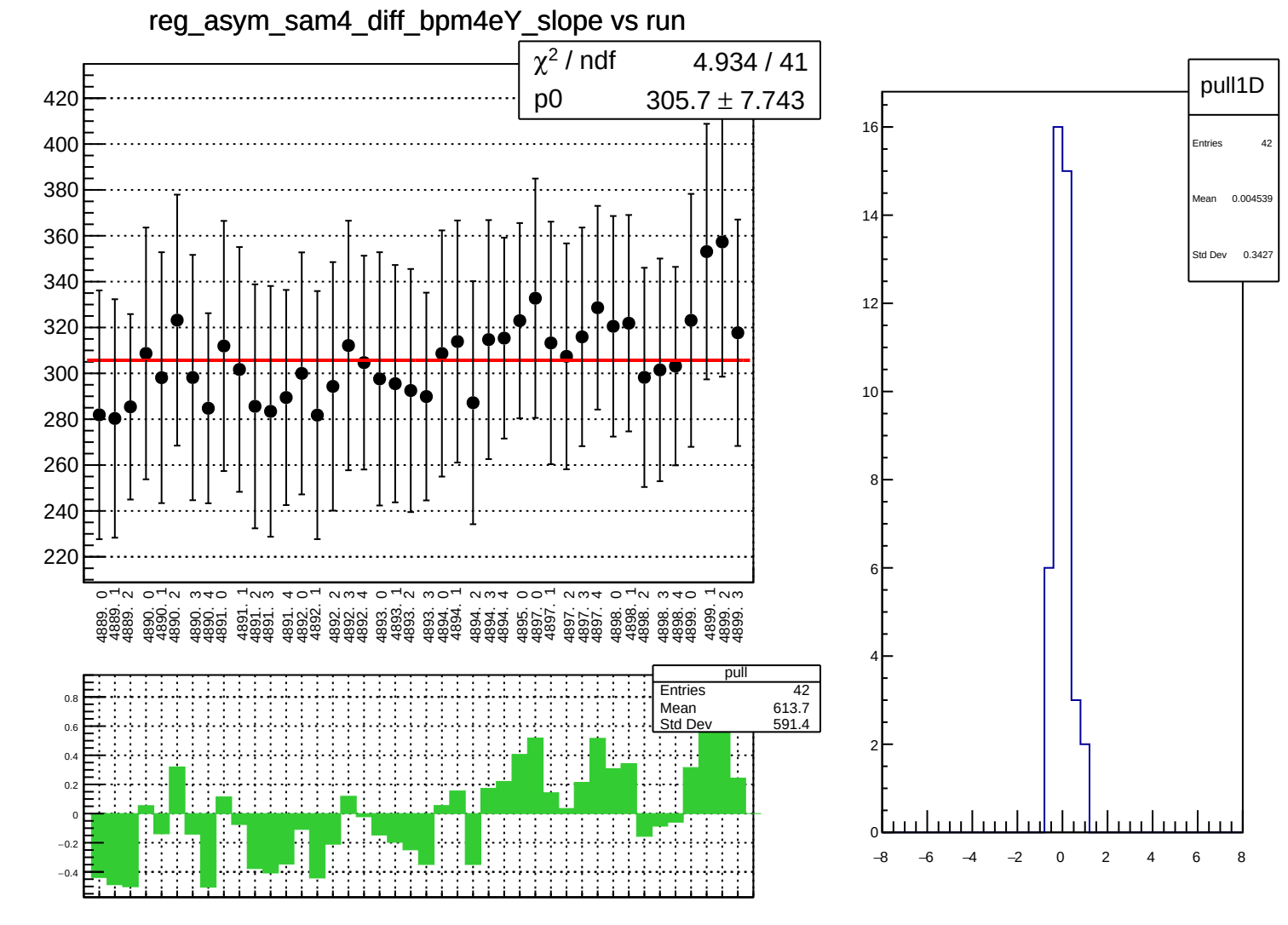

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 18.39 / 41
p0 223.7 ± 5.125
pull
Entries 42
Mean −159.9
Std Dev 180.1
pull1D
Entries 42
Mean −0.02536
Std Dev 0.6612

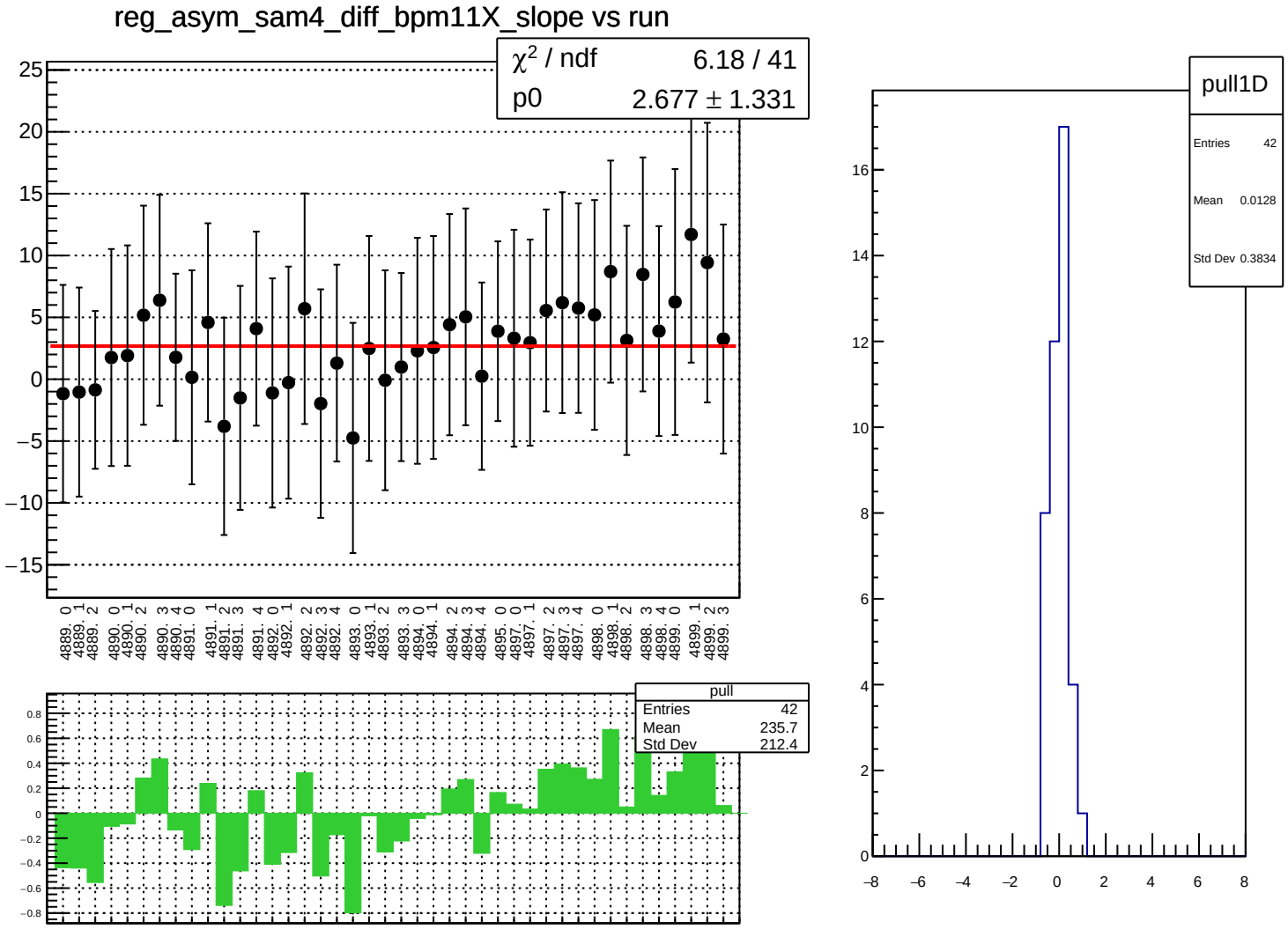

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 9.39 / 41
p0 −75.34 ± 6.964
pull
Entries 42
Mean −407.4
Std Dev 428.8

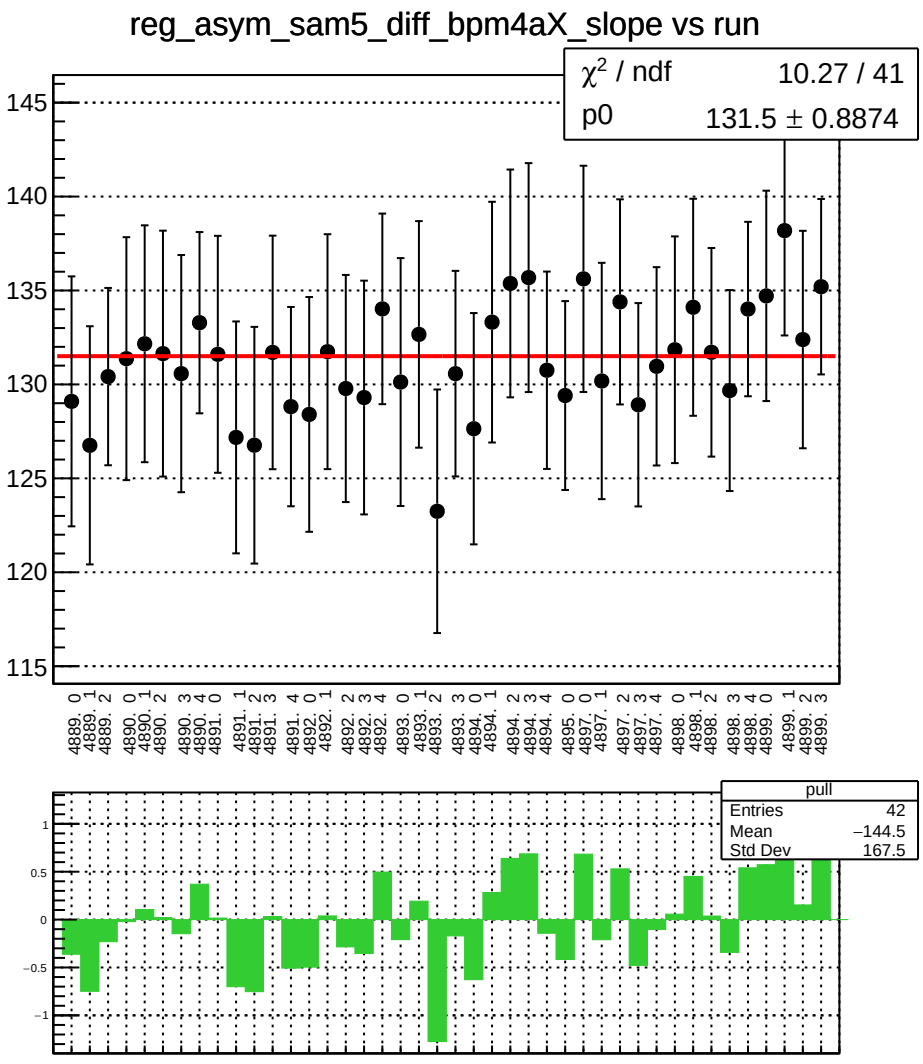

pull1D
Entries 42
Mean 0.008677
Std Dev 0.4728

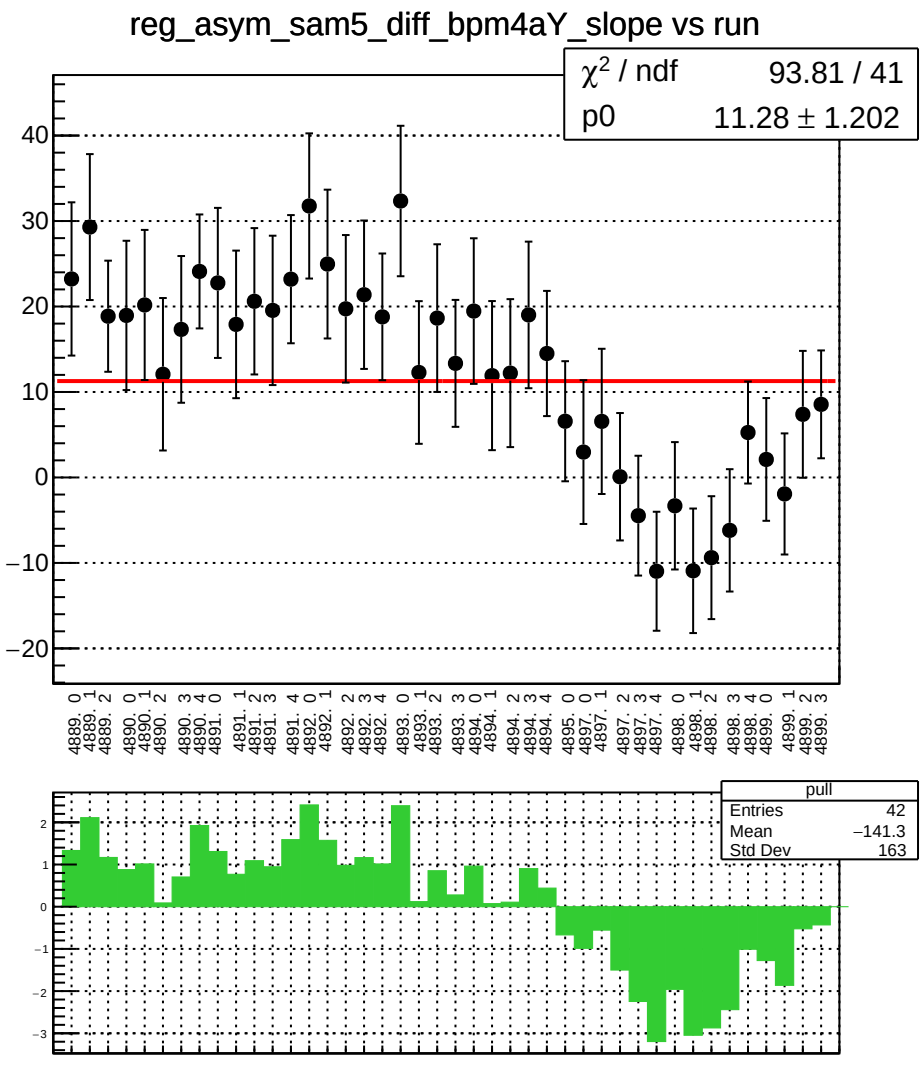

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 21.04 / 41
p0 −397 ± 0.9646
pull
Entries 42
Mean 865.1
Std Dev 843

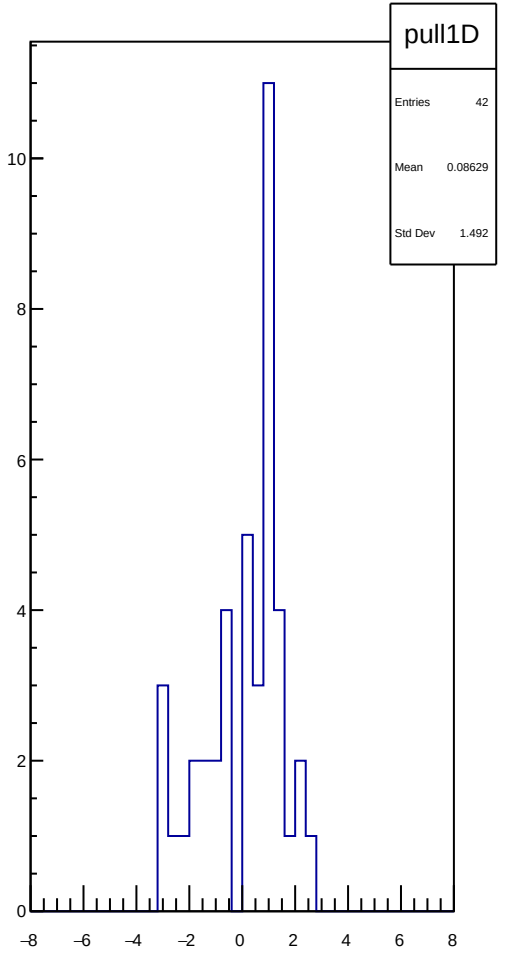

pull1D
Entries 42
Mean −0.006819
Std Dev 0.7077

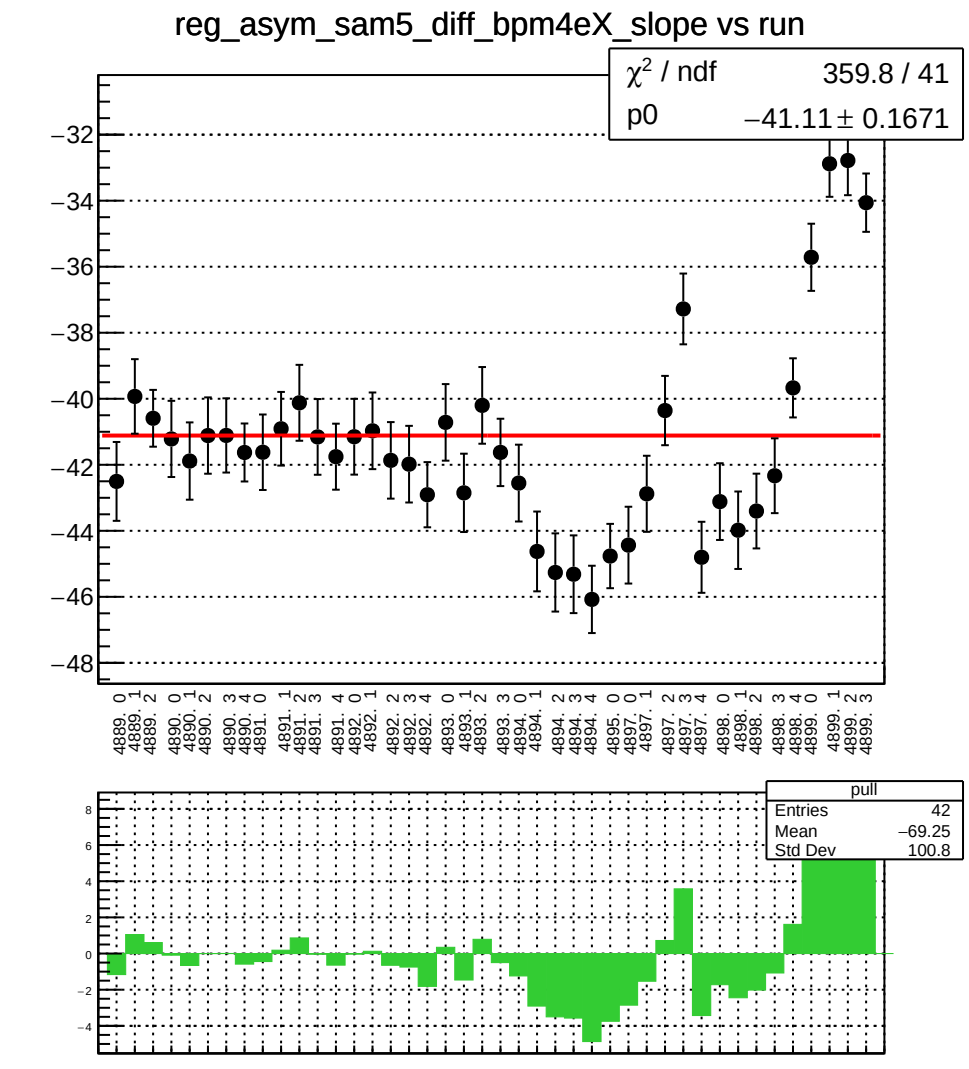

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.934 / 41
p0 305.7 ± 7.743
pull
Entries 42
Mean 613.7
Std Dev 591.4
pull1D
Entries 42
Mean 0.004539
Std Dev 0.3427

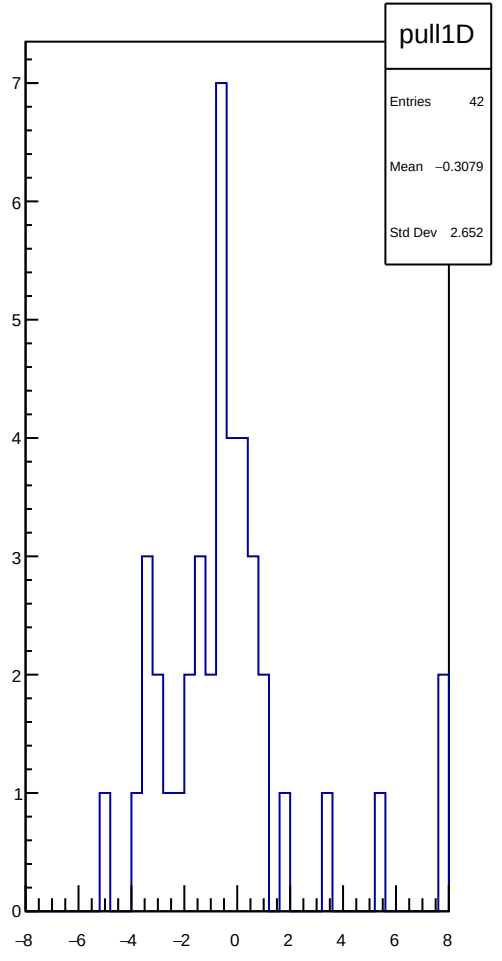

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 6.18 / 41
p0 2.677 ± 1.331
pull
Entries 42
Mean 235.7
Std Dev 212.4
pull1D
Entries 42
Mean 0.0128
Std Dev 0.3834

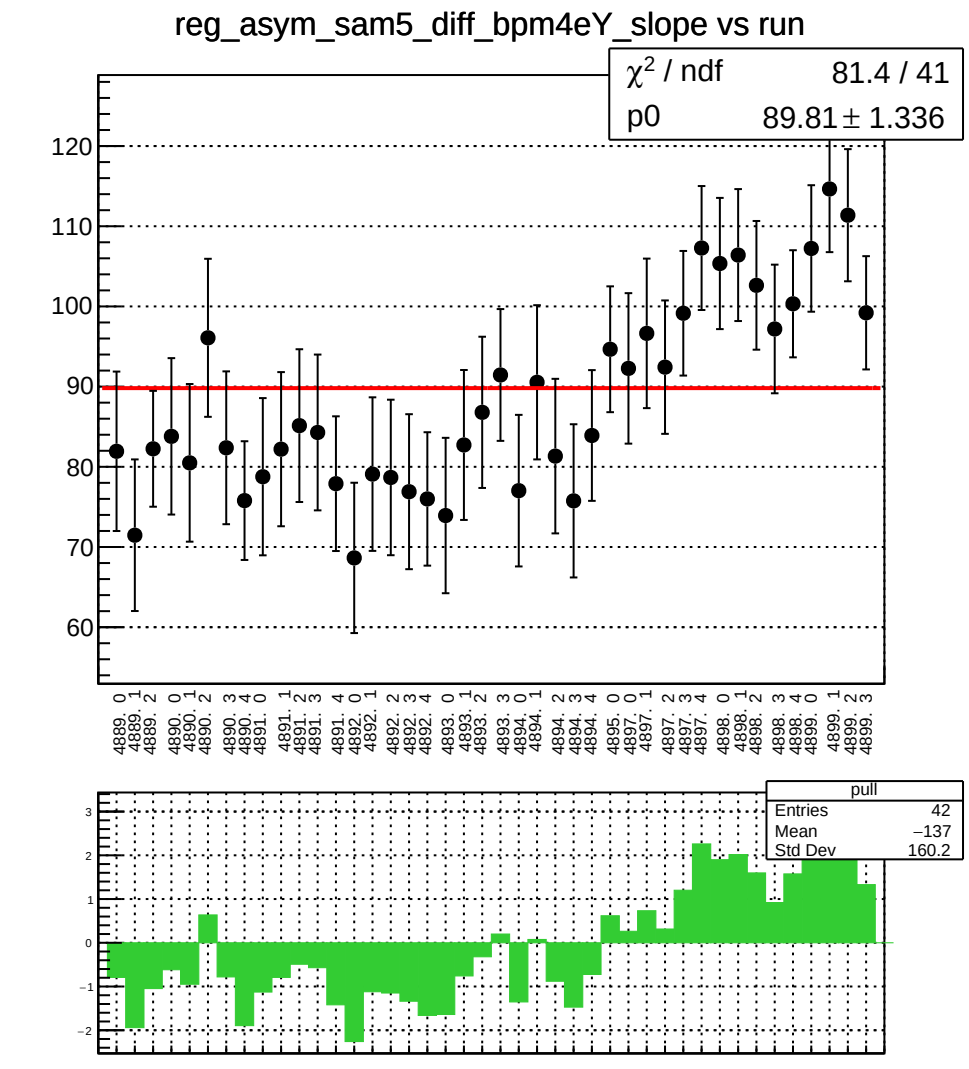

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 10.27 / 41
p0 131.5 ± 0.8874
145
140
135
130
125
120
115
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −144.5
Std Dev 167.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean −0.01629
Std Dev 0.4942
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

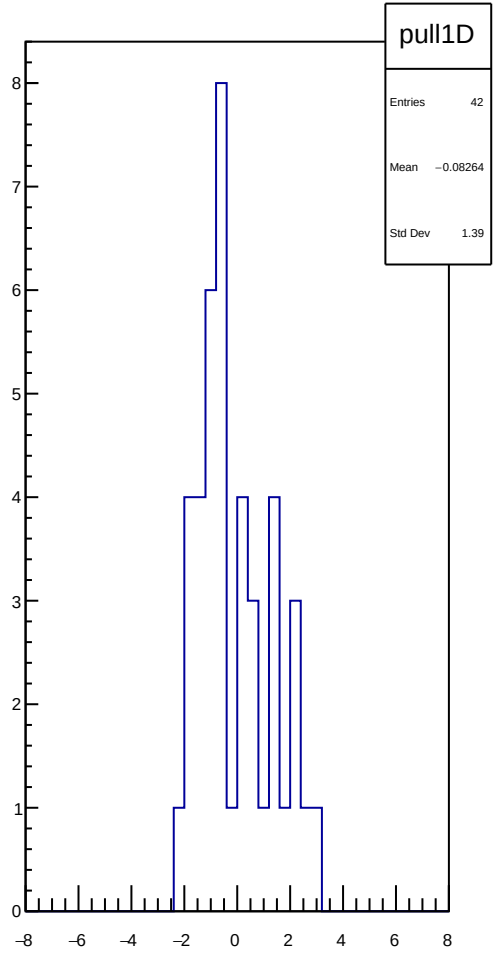

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 93.81 / 41
p0 11.28 ± 1.202
40
30
20
10
0
−10
−20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −141.3
Std Dev 163
2
1
0
−1
−2
−3

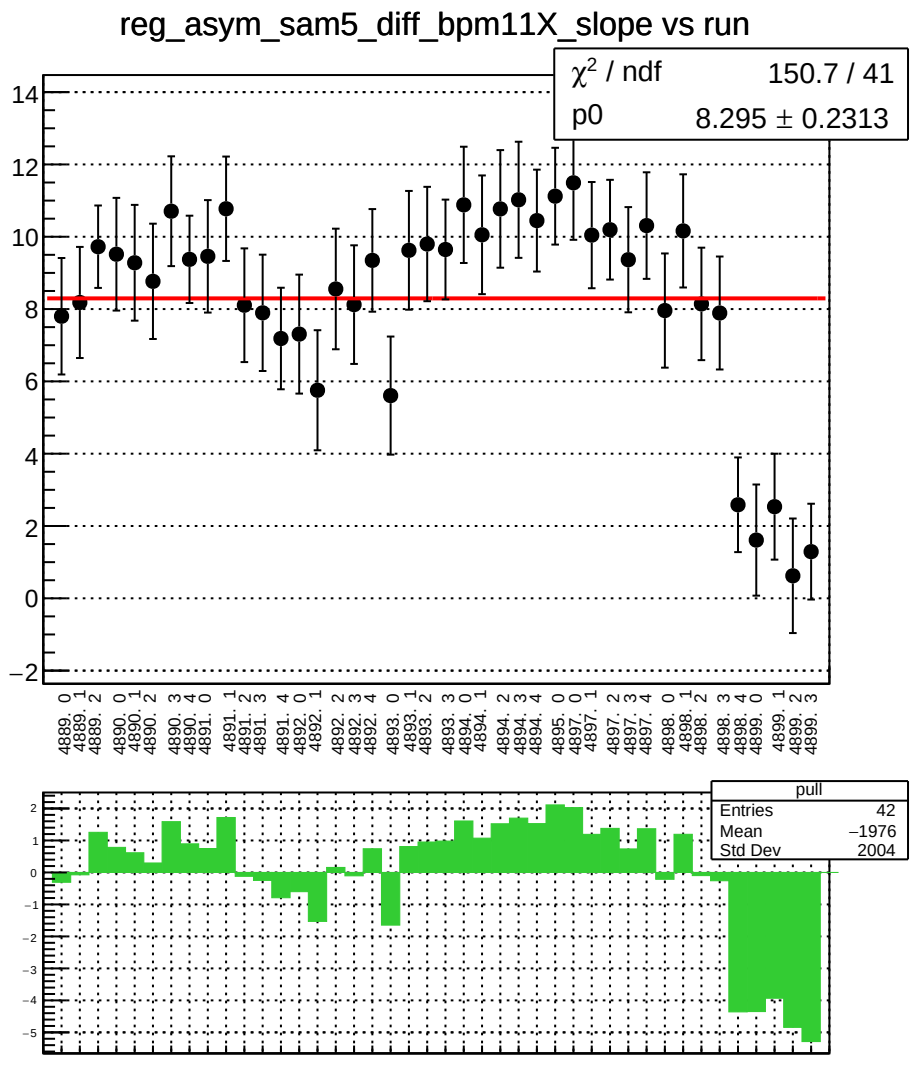

pull1D
Entries 42
Mean 0.08629
Std Dev 1.492
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

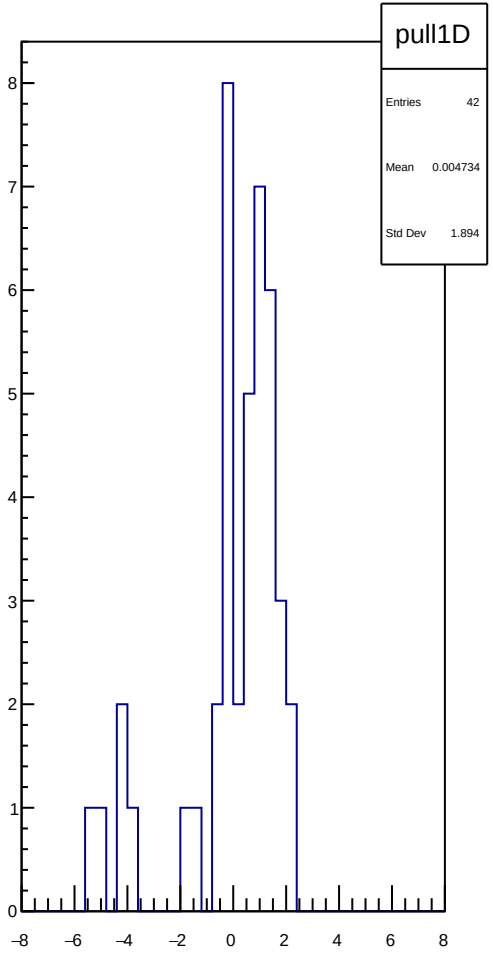

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 359.8 / 41
p0 −41.11 ± 0.1671
pull
Entries 42
Mean −69.25
Std Dev 100.8

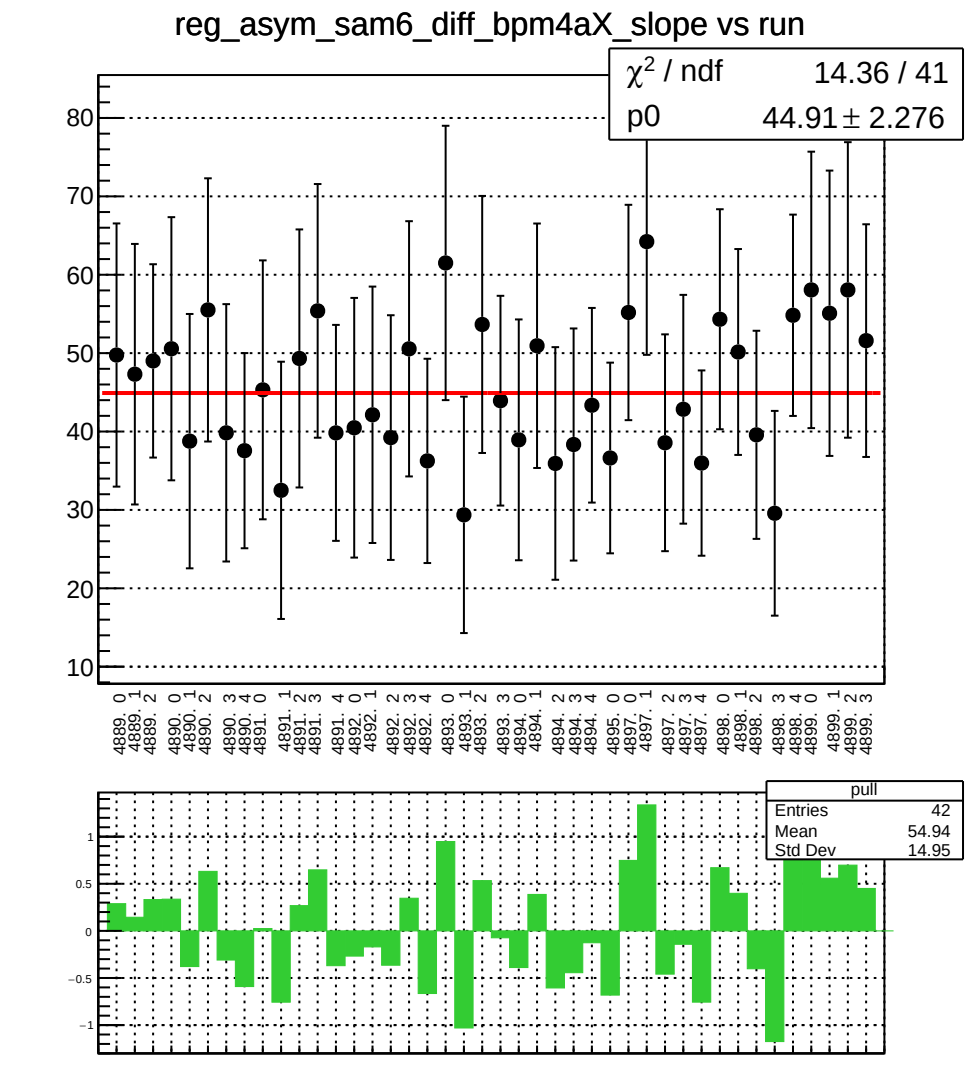

pull1D
Entries 42
Mean −0.3079
Std Dev 2.652

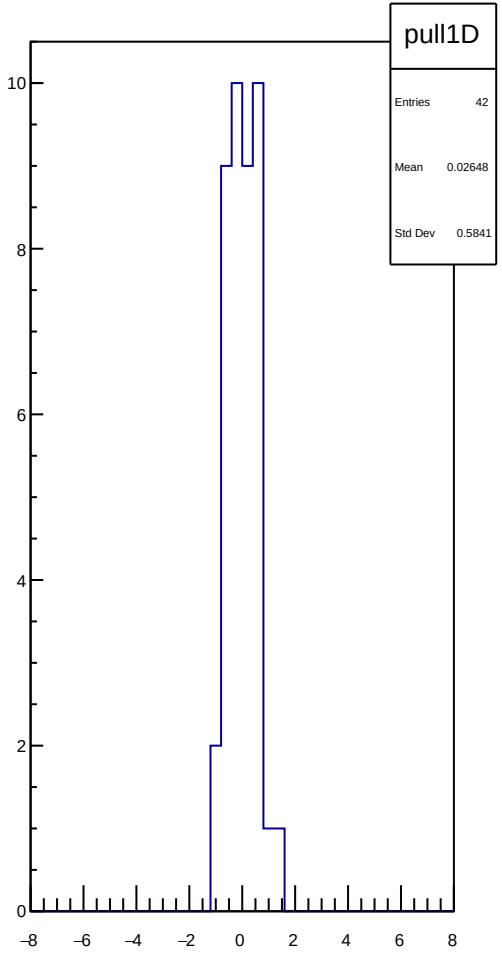

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 81.4 / 41
p0 89.81 ± 1.336
120
110
100
90
80
70
60
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −137
Std Dev 160.2
3
2
1
0
−1
−2

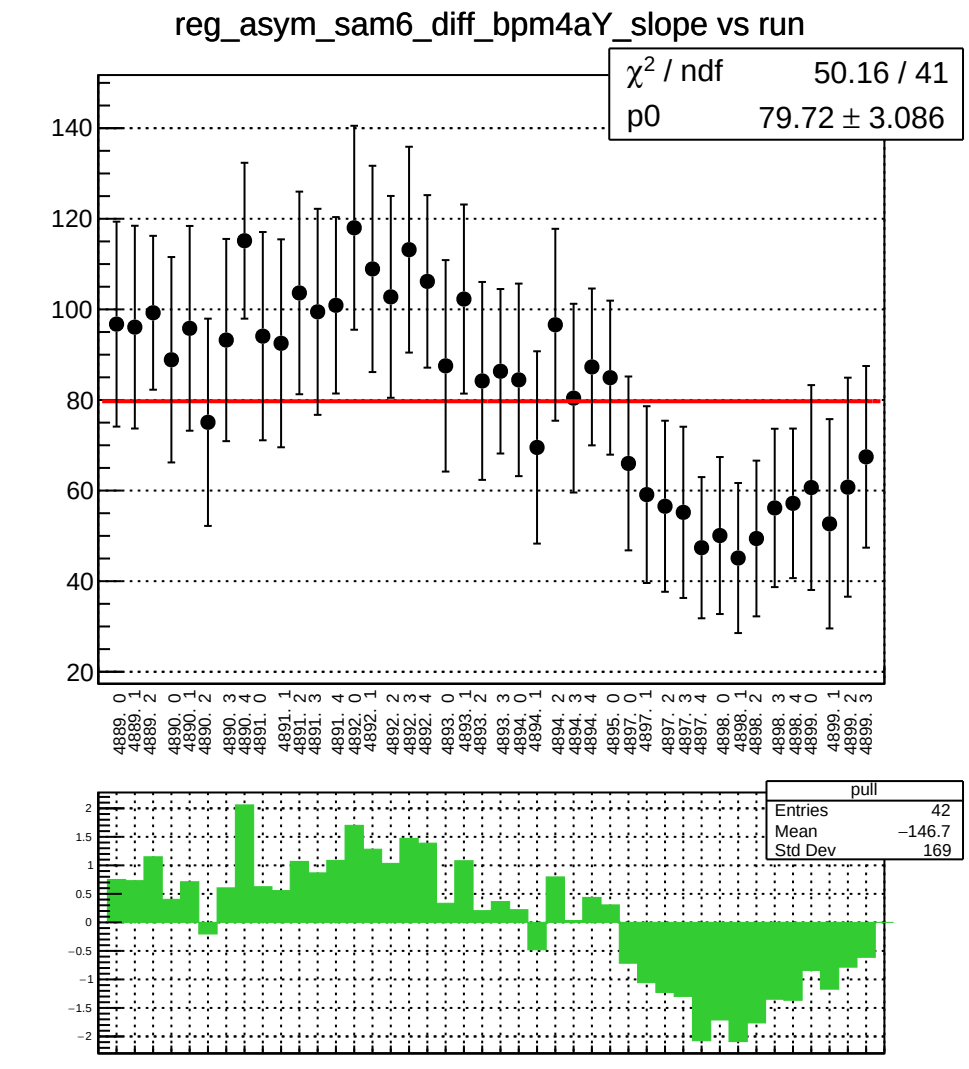

pull1D
Entries 42
Mean −0.08264
Std Dev 1.39
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

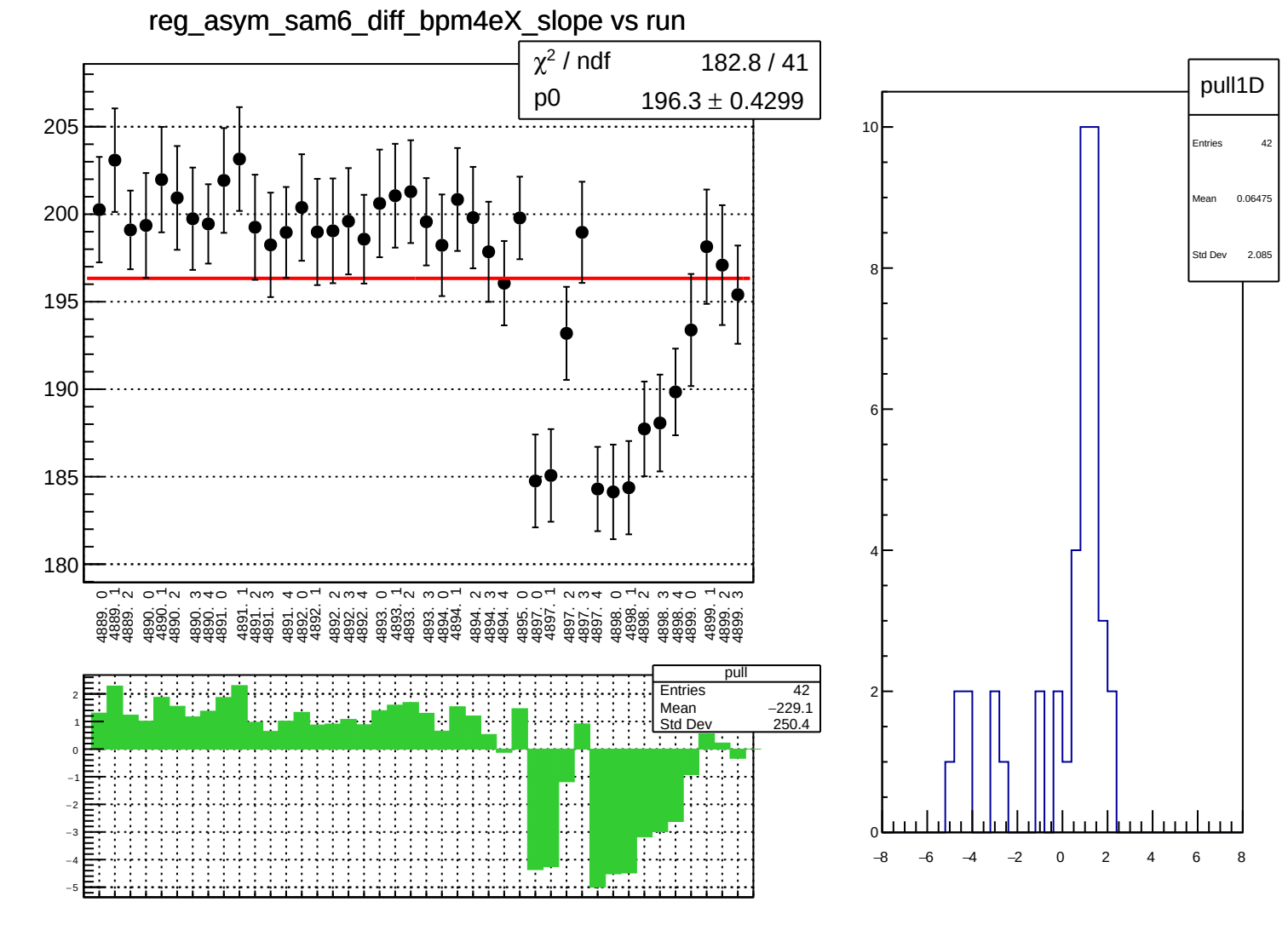

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 150.7 / 41
p0 8.295 ± 0.2313
pull
Entries 42
Mean −1976
Std Dev 2004

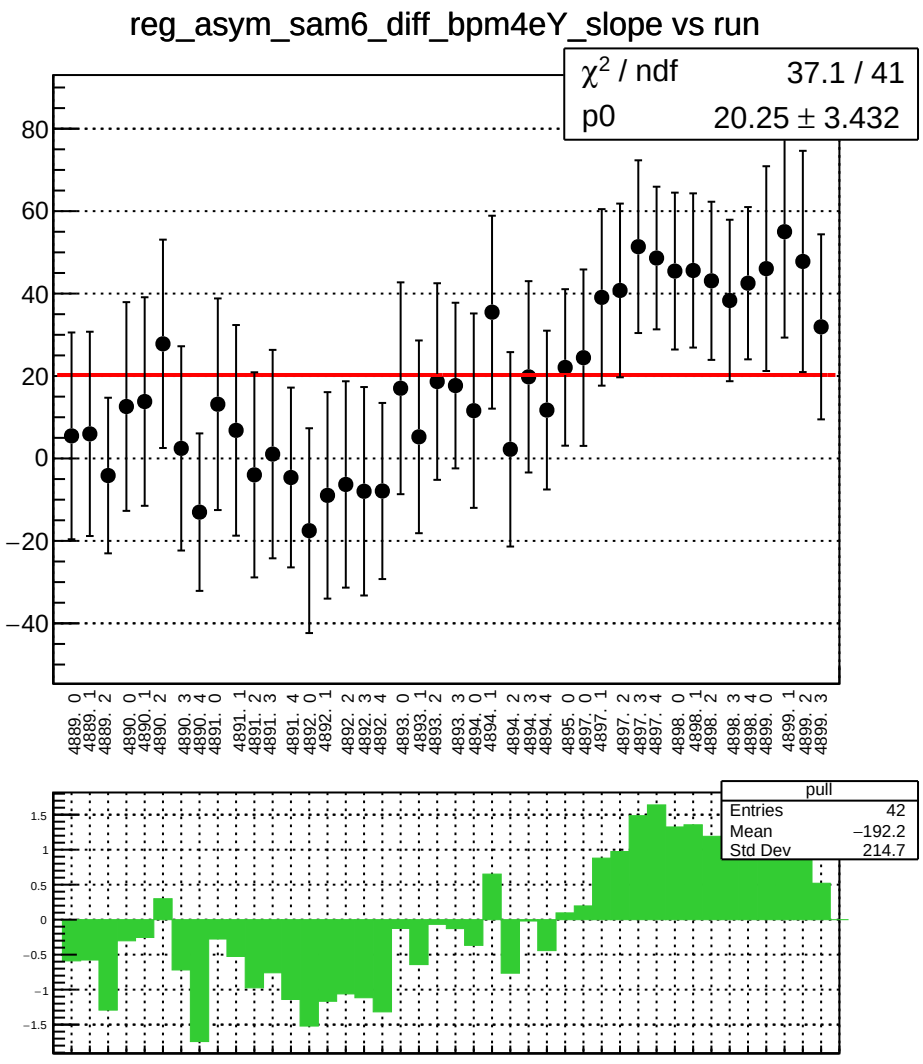

pull1D
Entries 42
Mean 0.004734
Std Dev 1.894

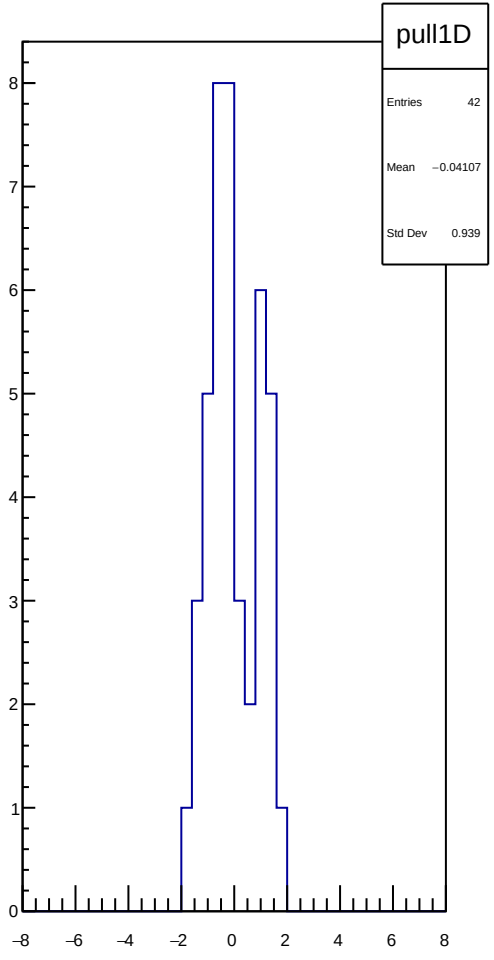

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 14.36 / 41
p0 44.91 ± 2.276
pull
Entries 42
Mean 54.94
Std Dev 14.95

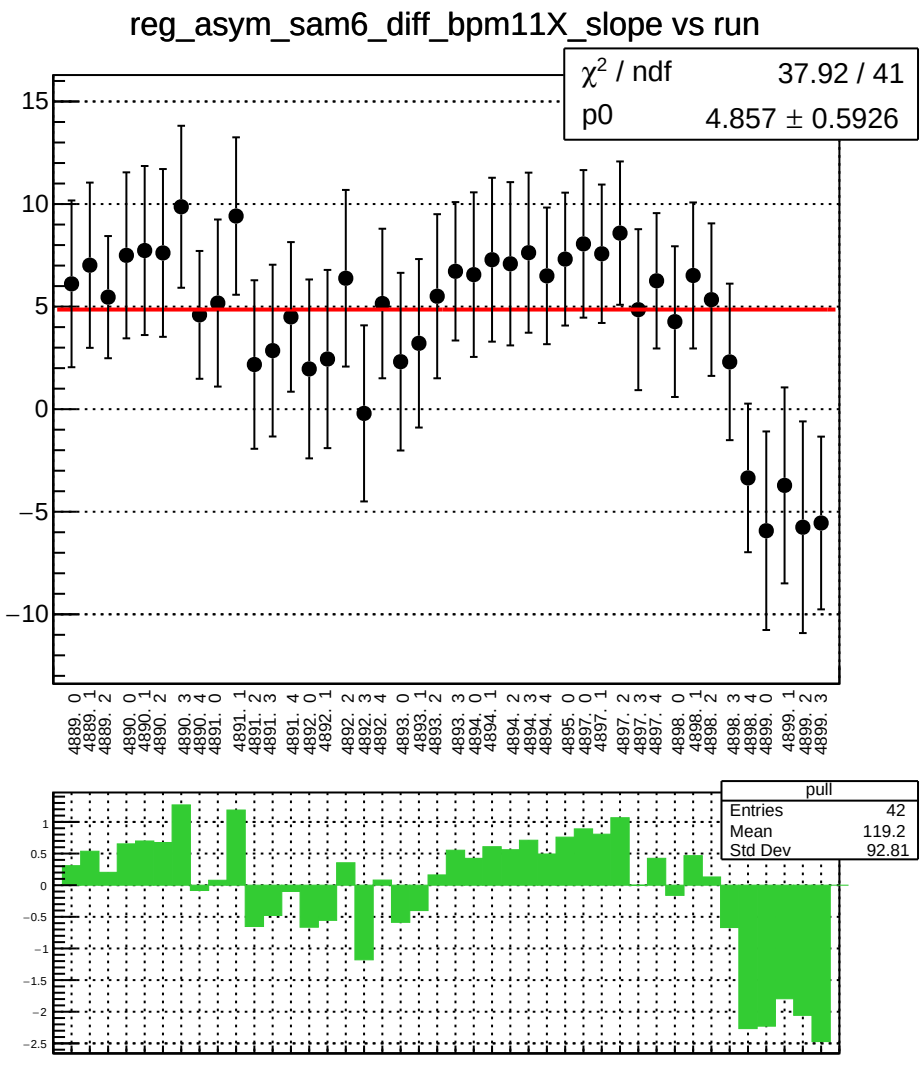

pull1D
Entries 42
Mean 0.02648
Std Dev 0.5841

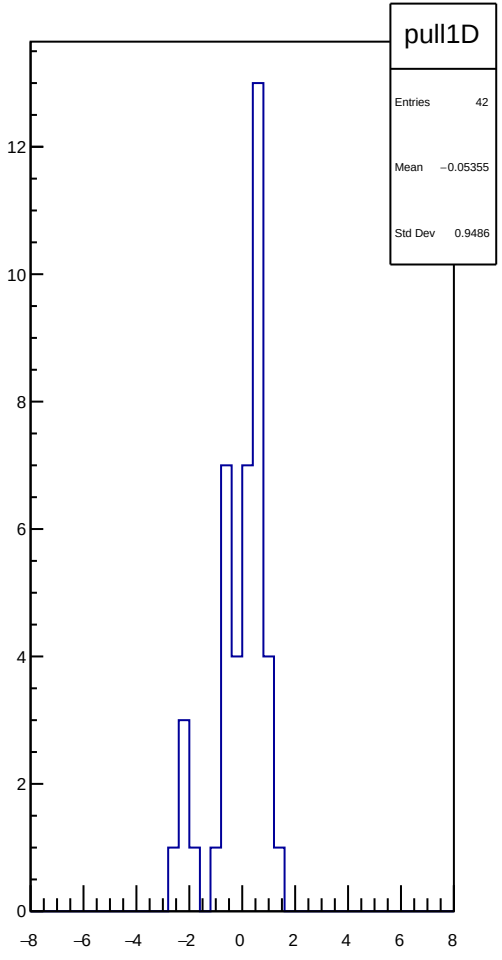

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 50.16 / 41
p0 79.72 ± 3.086
140
120
100
80
60
40
20
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −146.7
Std Dev 169
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.06056
Std Dev 1.091
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

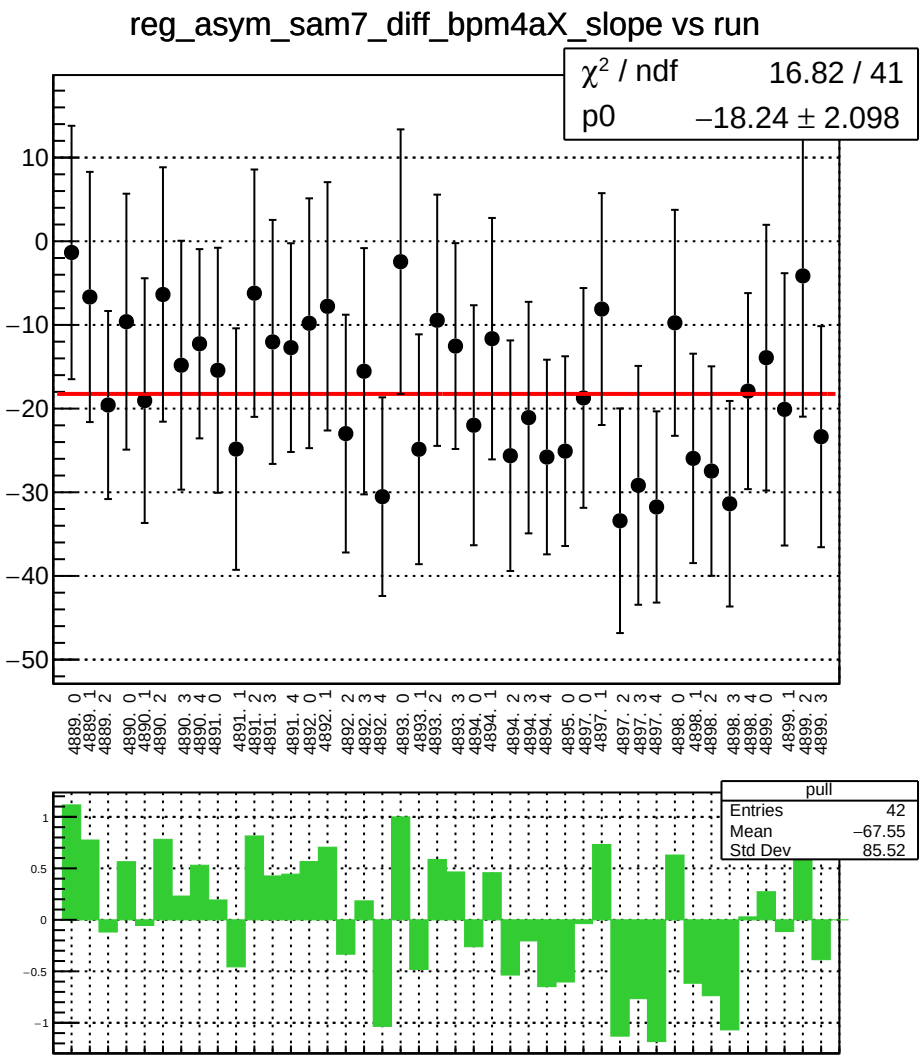

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 182.8 / 41
p0 196.3 ± 0.4299
205
200
195
190
185
180
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −229.1
Std Dev 250.4
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 42
Mean 0.06475
Std Dev 2.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

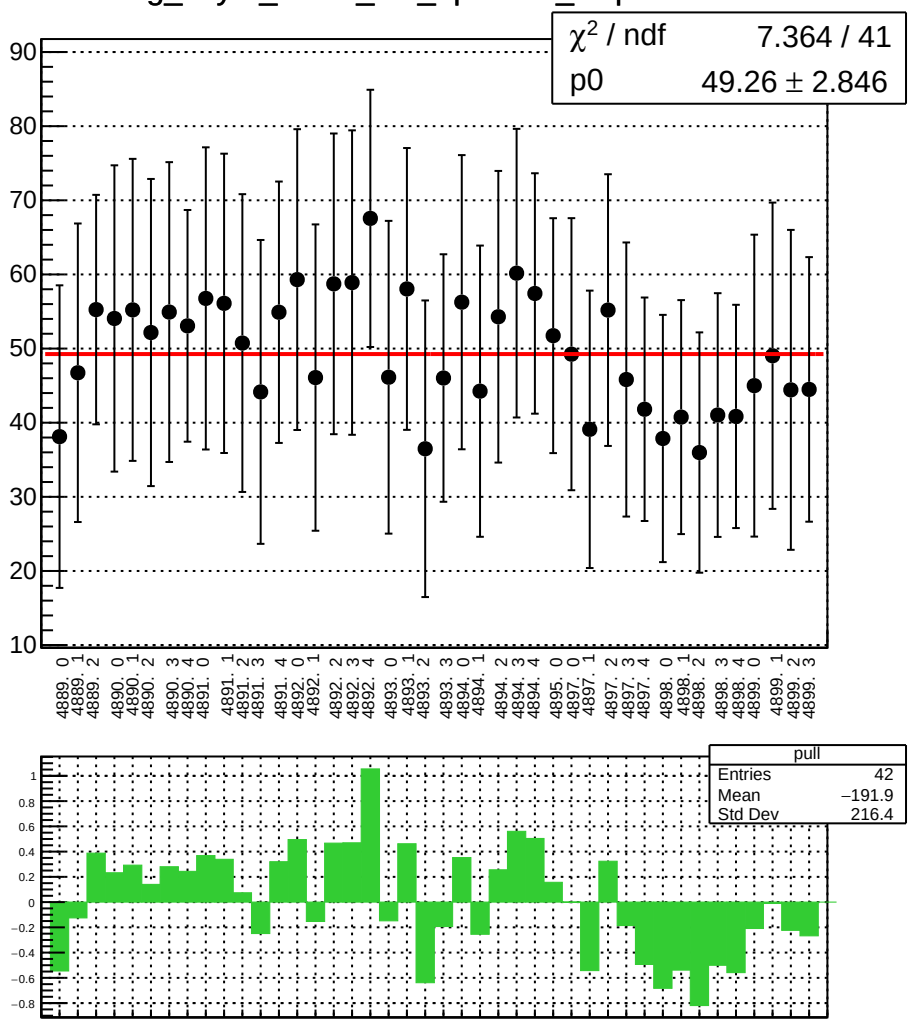

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 37.1 / 41
p0 20.25 ± 3.432
pull
Entries 42
Mean −192.2
Std Dev 214.7

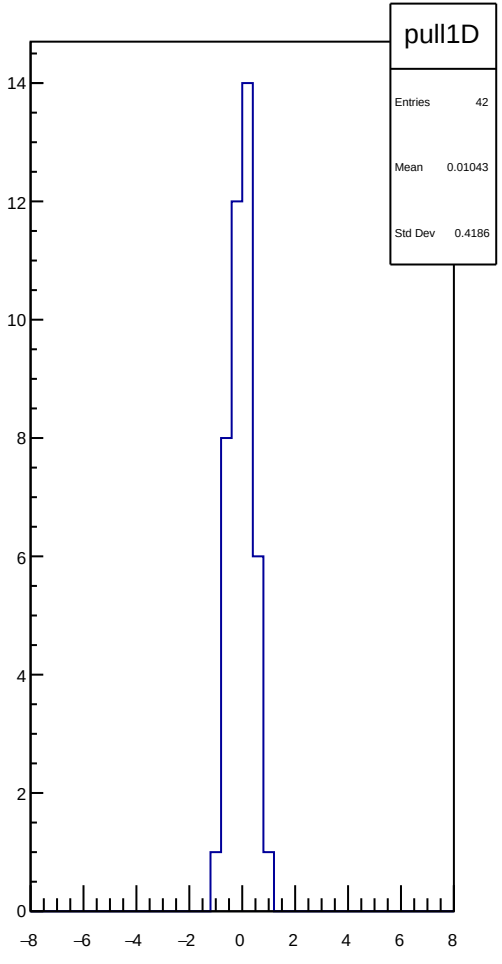

pull1D
Entries 42
Mean −0.04107
Std Dev 0.939

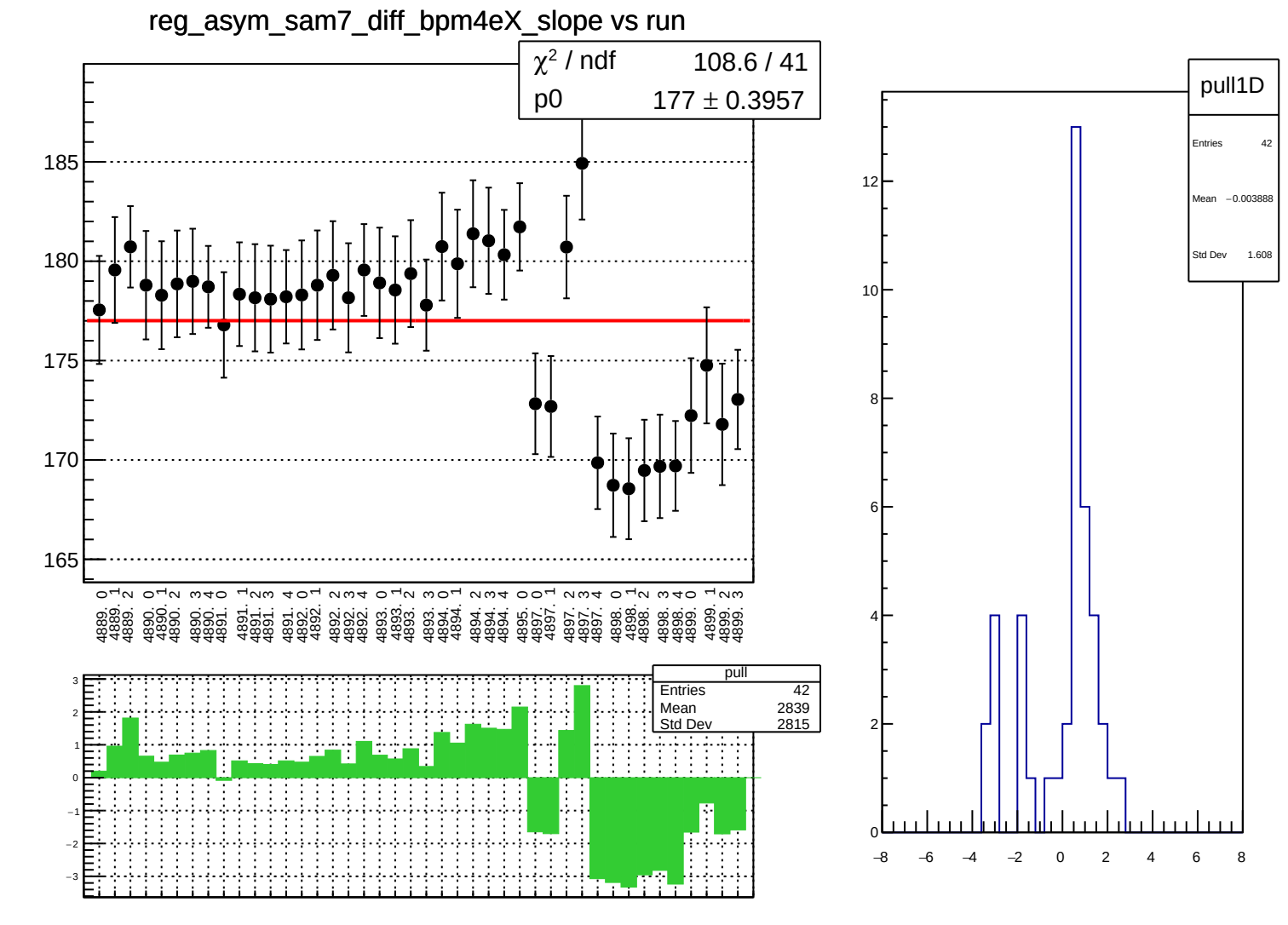

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 37.92 / 41
p0 4.857 ± 0.5926
pull
Entries 42
Mean 119.2
Std Dev 92.81

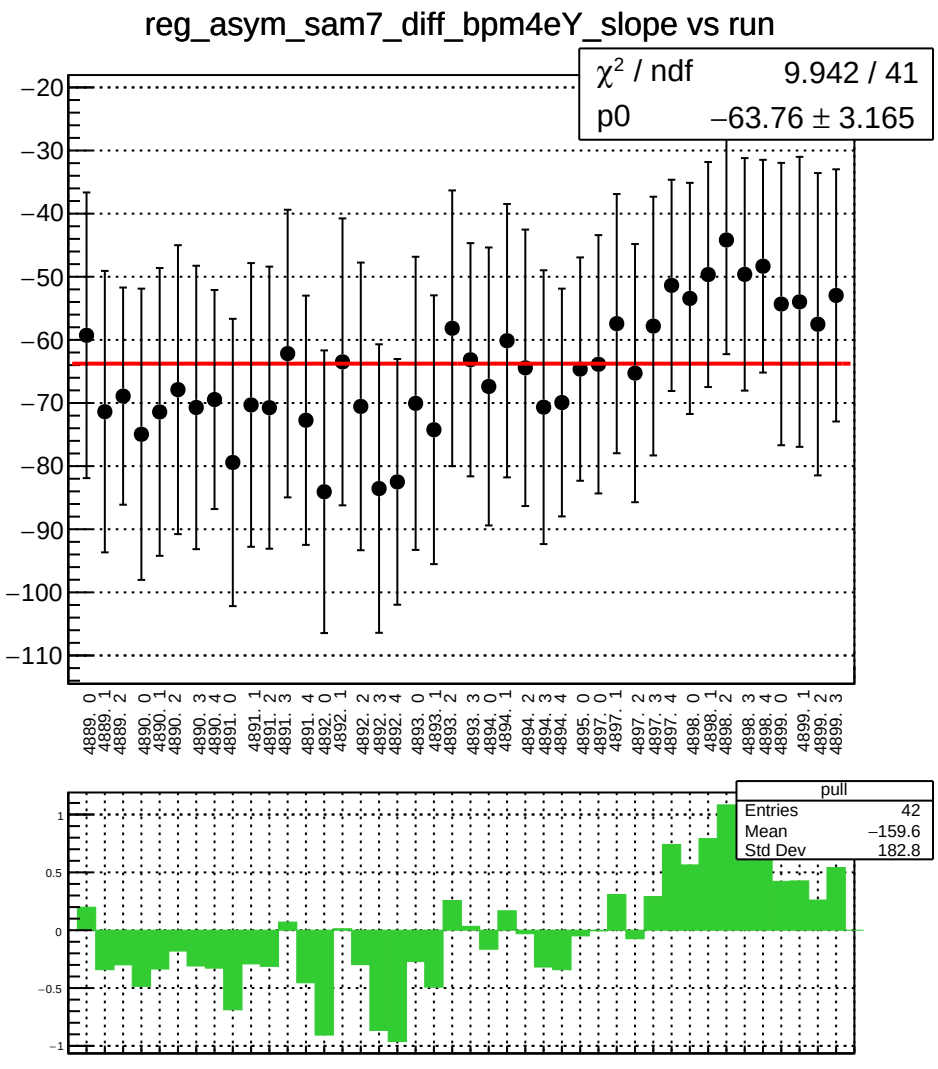

pull1D
Entries 42
Mean −0.05355
Std Dev 0.9486

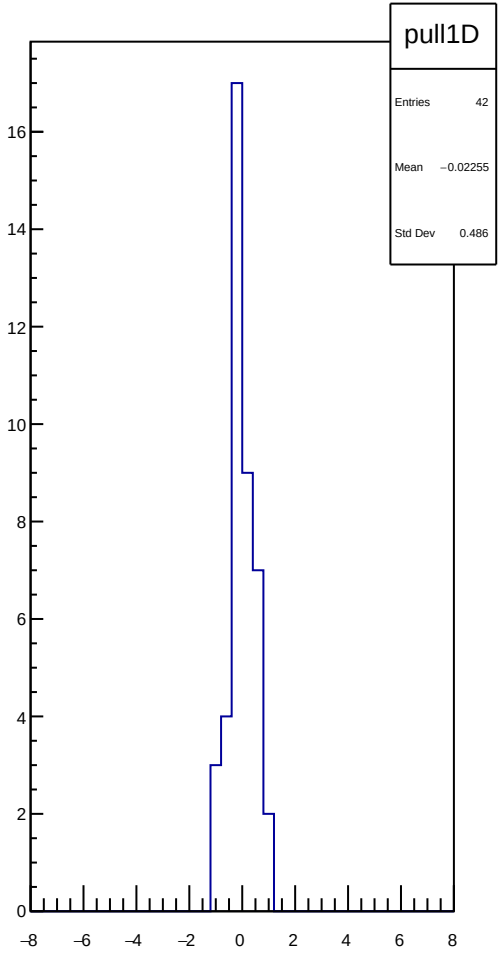

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 16.82 / 41
p0 −18.24 ± 2.098
10
0
−10
−20
−30
−40
−50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −67.55
Std Dev 85.52
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean 0.03738
Std Dev 0.6318
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

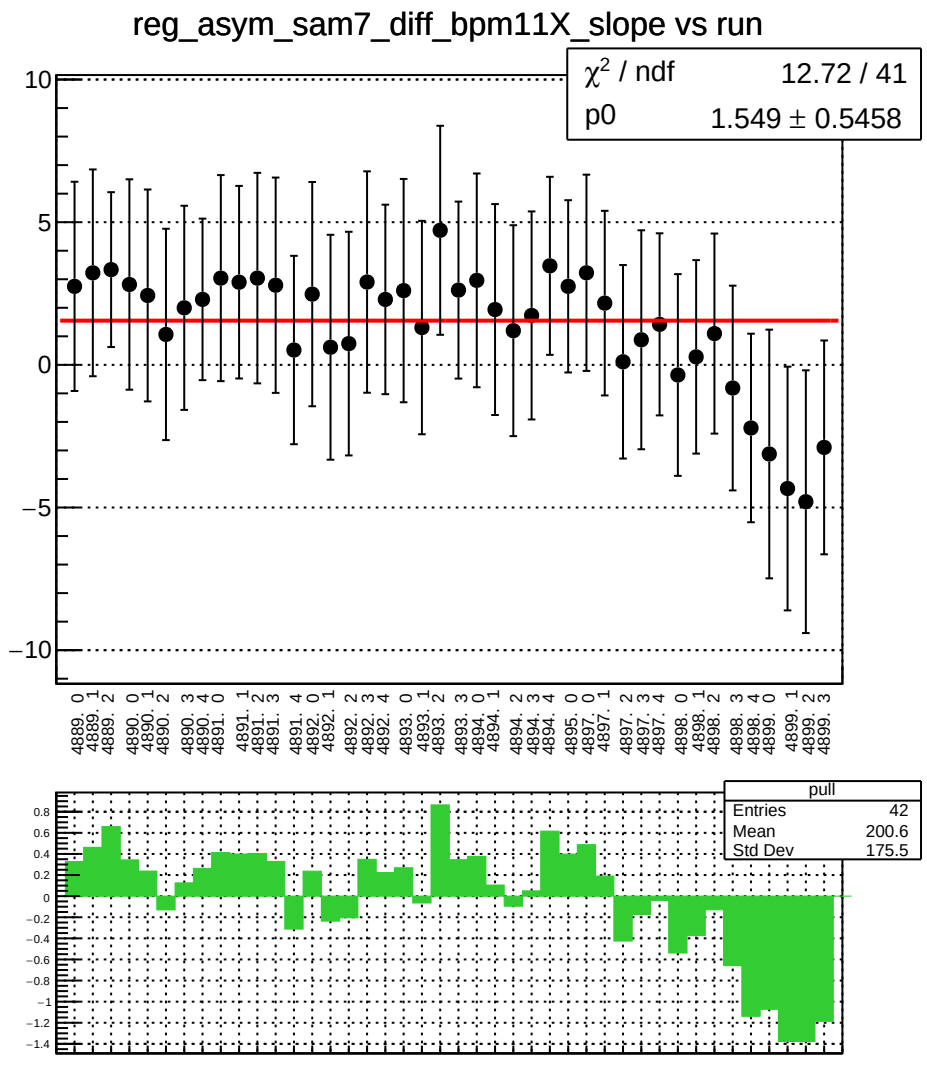

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 7.364 / 41
p0 49.26 ± 2.846
pull
Entries 42
Mean −191.9
Std Dev 216.4

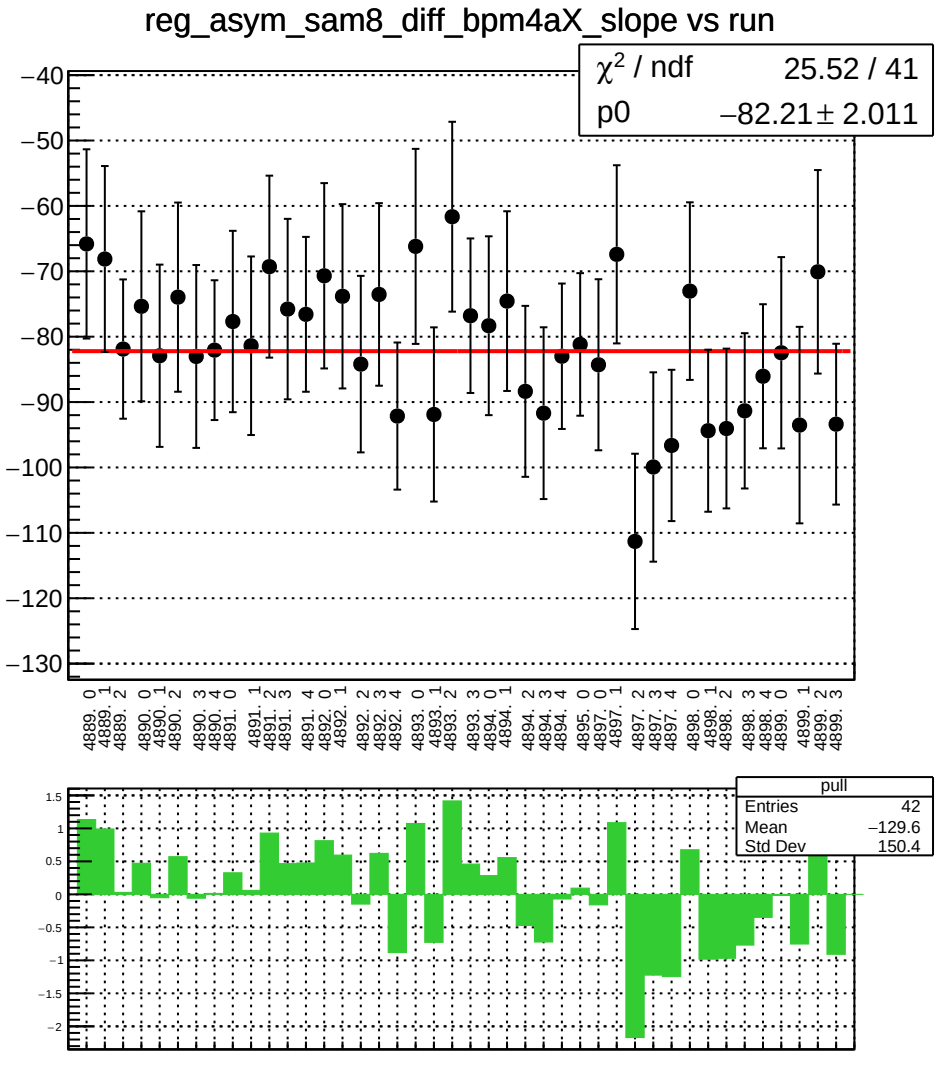

pull1D
Entries 42
Mean 0.01043
Std Dev 0.4186

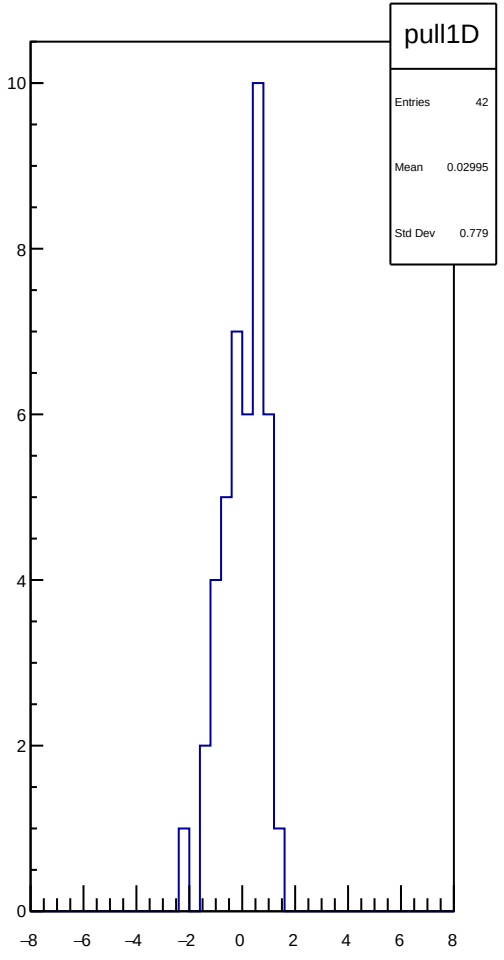

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 108.6 / 41
p0 177 ± 0.3957
185
180
175
170
165
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 2839
Std Dev 2815
3
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.003888
Std Dev 1.608
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

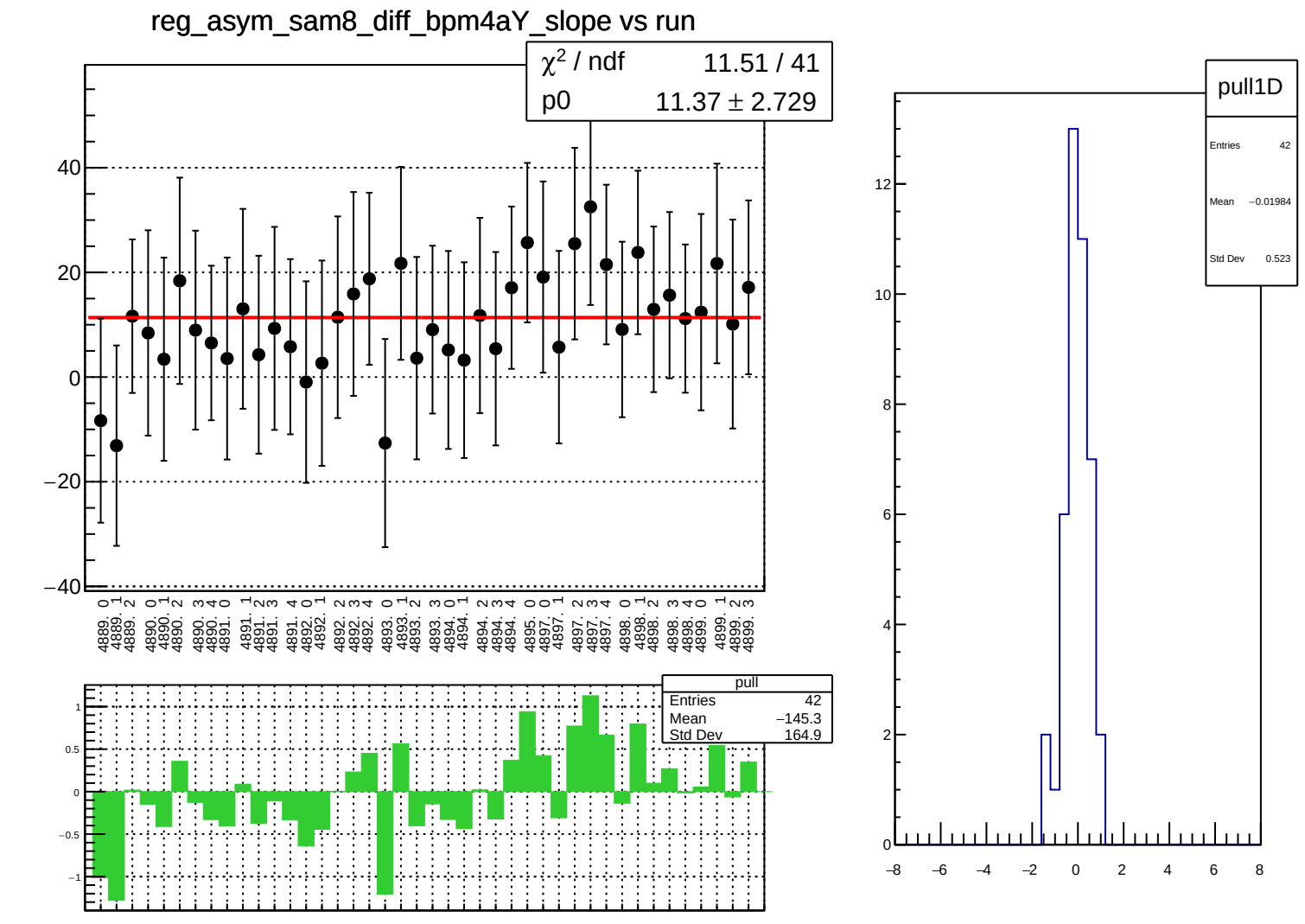

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 9.942 / 41
p0 −63.76 ± 3.165
pull
Entries 42
Mean −159.6
Std Dev 182.8

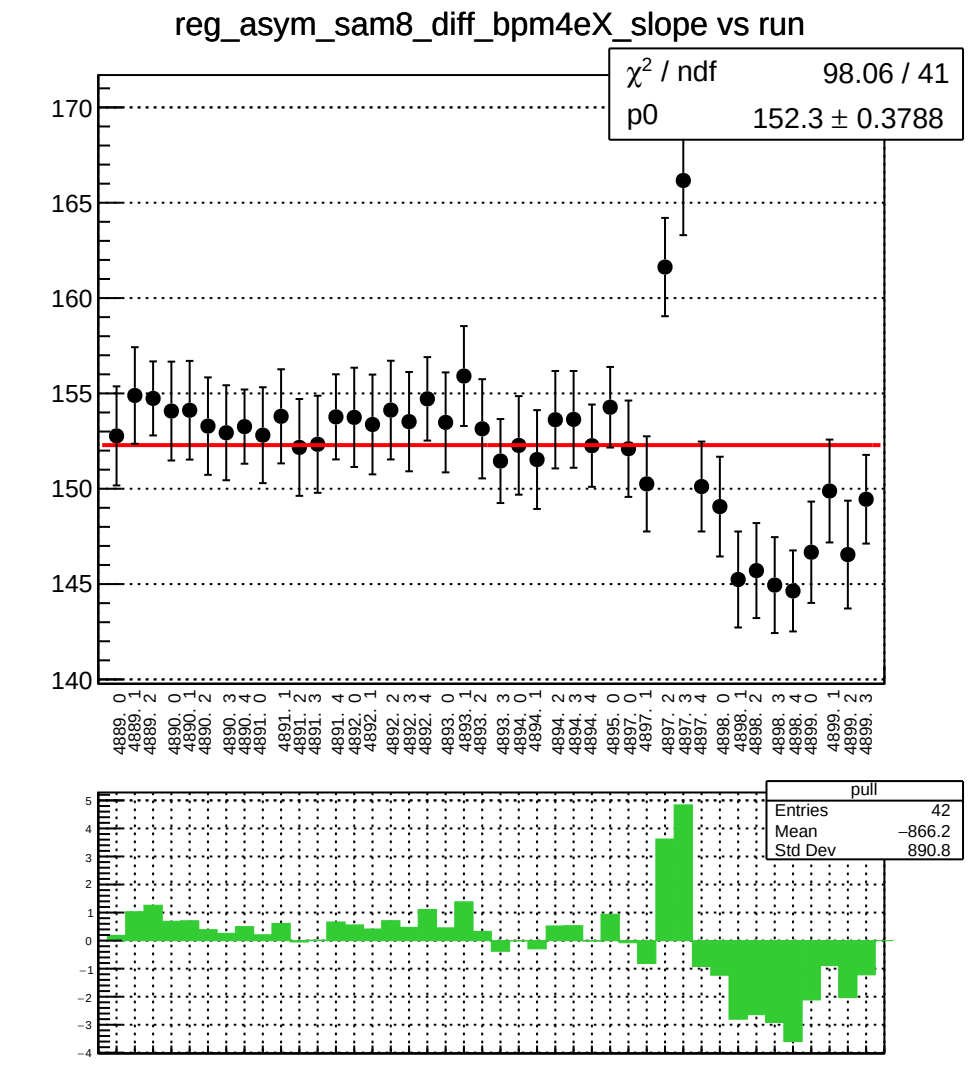

pull1D
Entries 42
Mean −0.02255
Std Dev 0.486

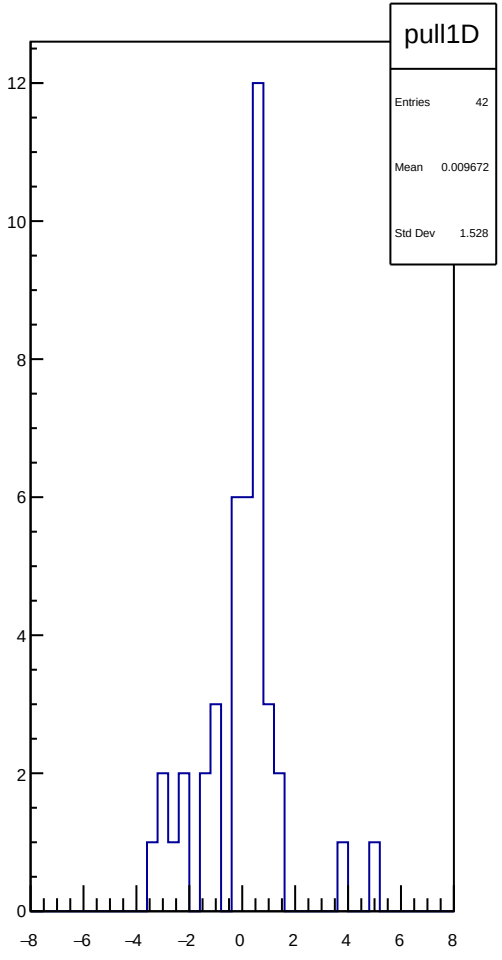

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 12.72 / 41
p0 1.549 ± 0.5458
10
5
0
−5
−10
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 200.6
Std Dev 175.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 42
Mean −0.02525
Std Dev 0.5497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

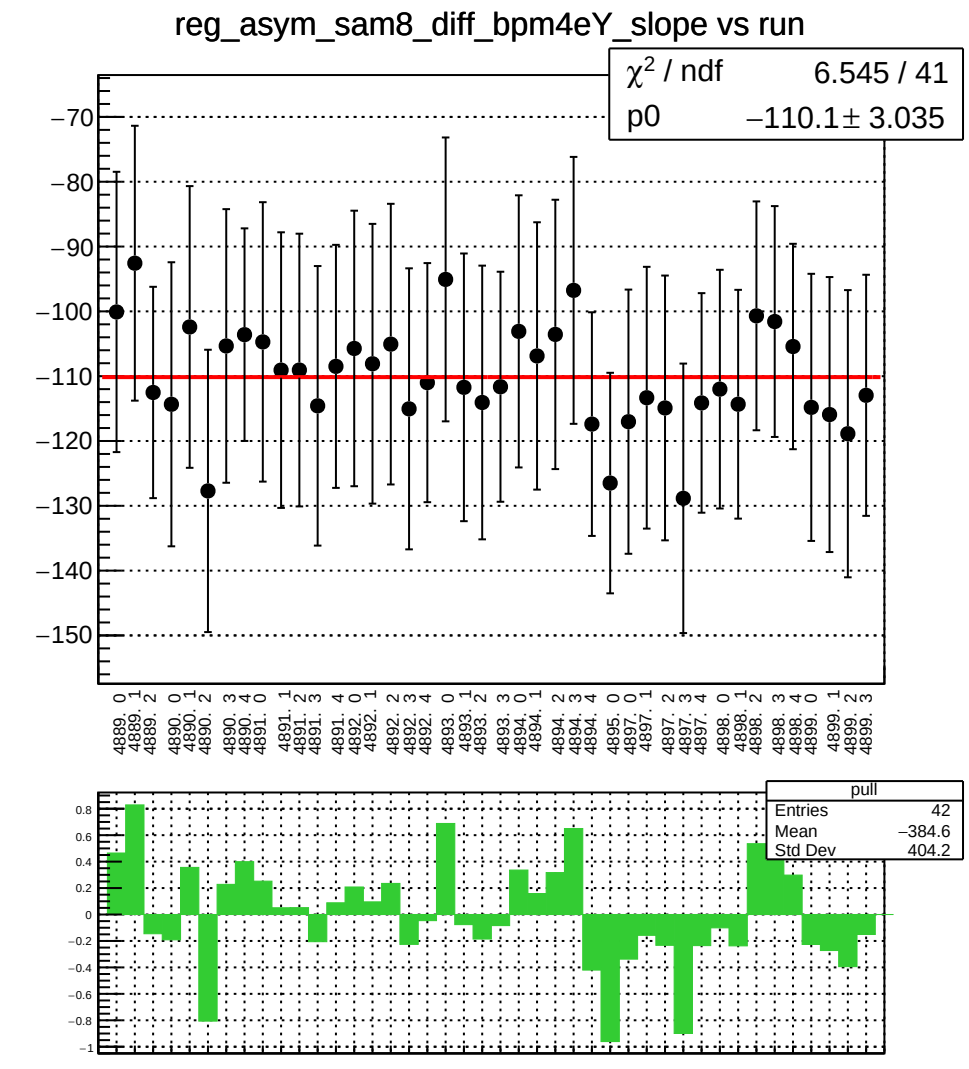

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 25.52 / 41
p0 −82.21 ± 2.011
pull
Entries 42
Mean −129.6
Std Dev 150.4

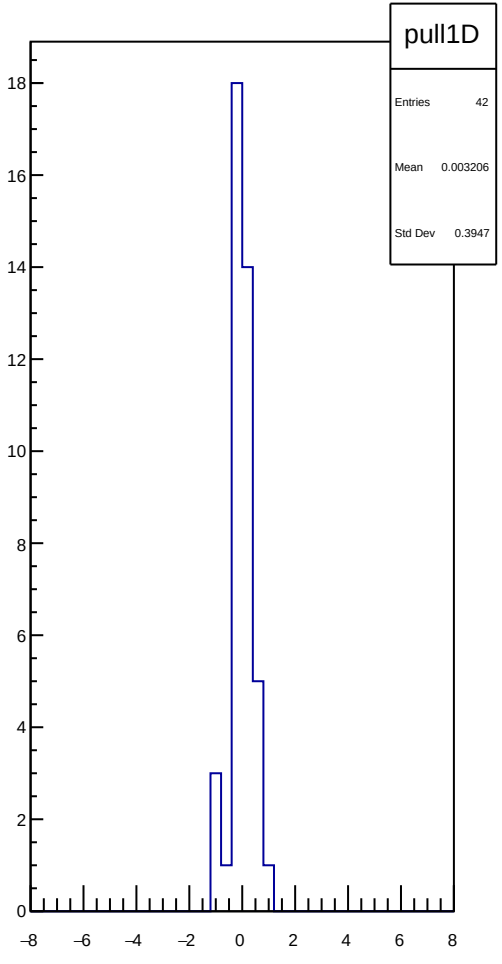

pull1D
Entries 42
Mean 0.02995
Std Dev 0.779

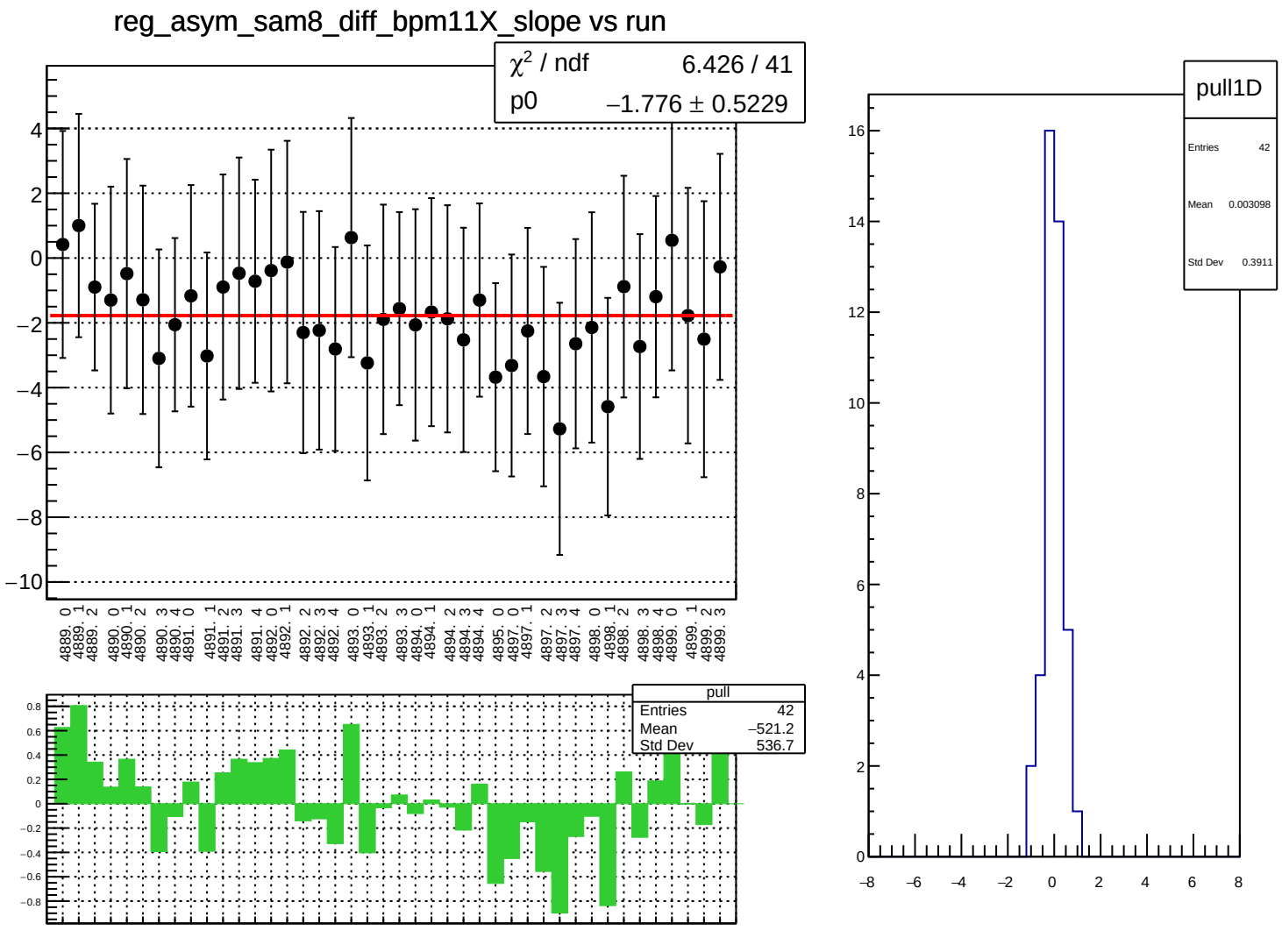

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 11.51 / 41
p0 11.37 ± 2.729
40
20
0
−20
−40
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −145.3
Std Dev 164.9
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean −0.01984
Std Dev 0.523
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

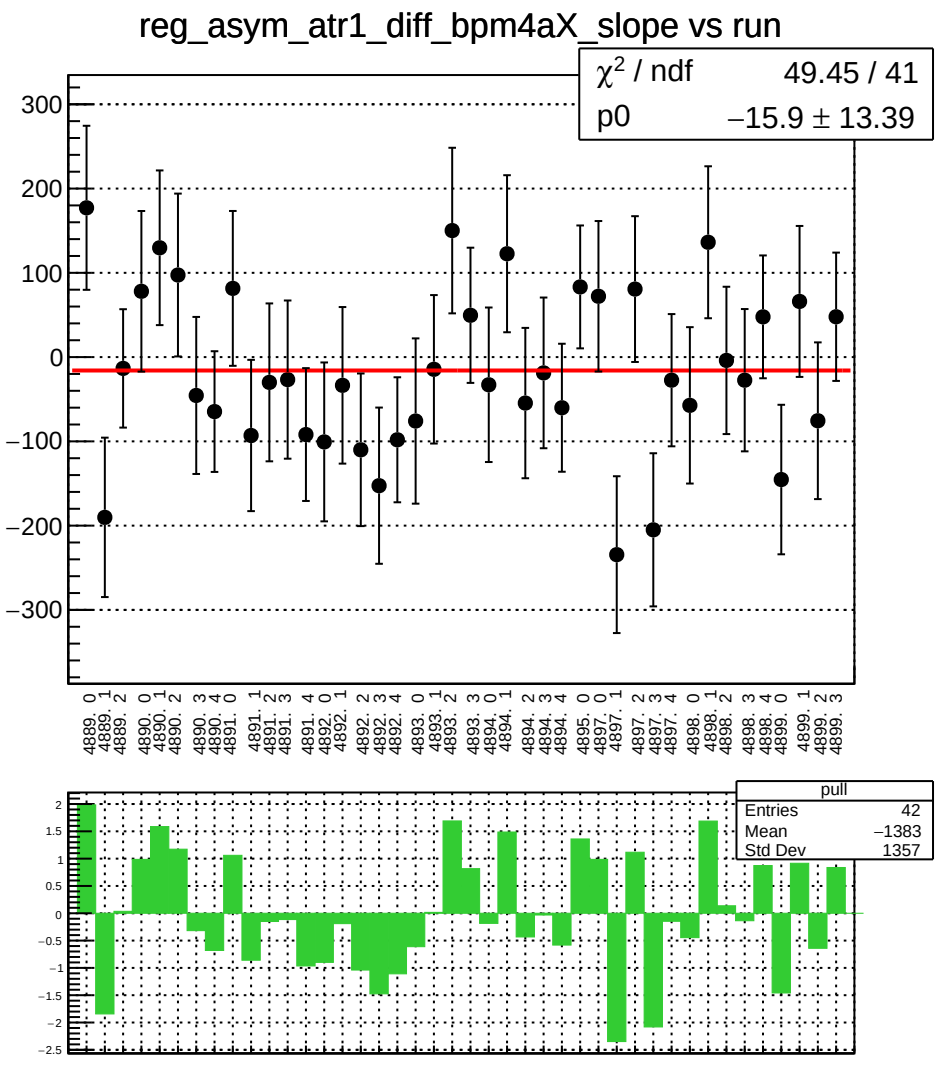

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 98.06 / 41
p0 152.3 ± 0.3788
170
165
160
155
150
145
140
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −866.2
Std Dev 890.8
5
4
3
2
1
0
−1
−2
−3
−4

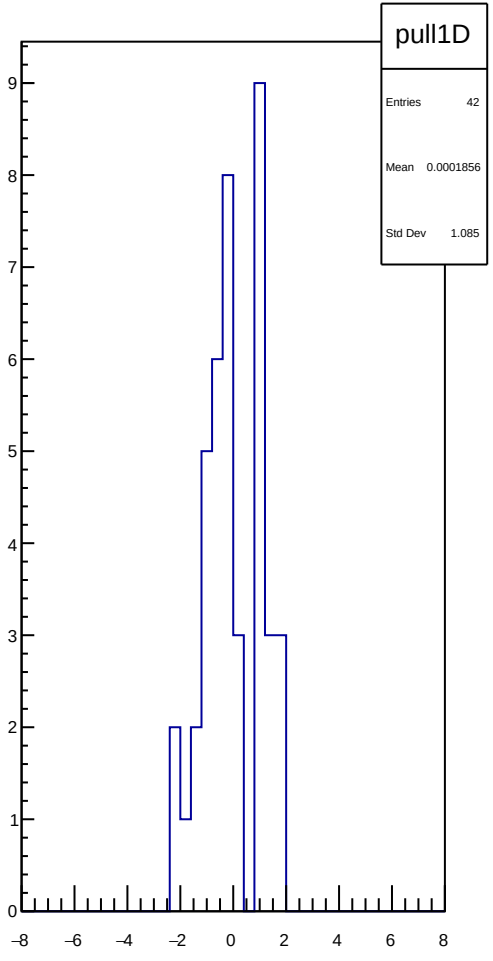

pull1D
Entries 42
Mean 0.009672
Std Dev 1.528
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

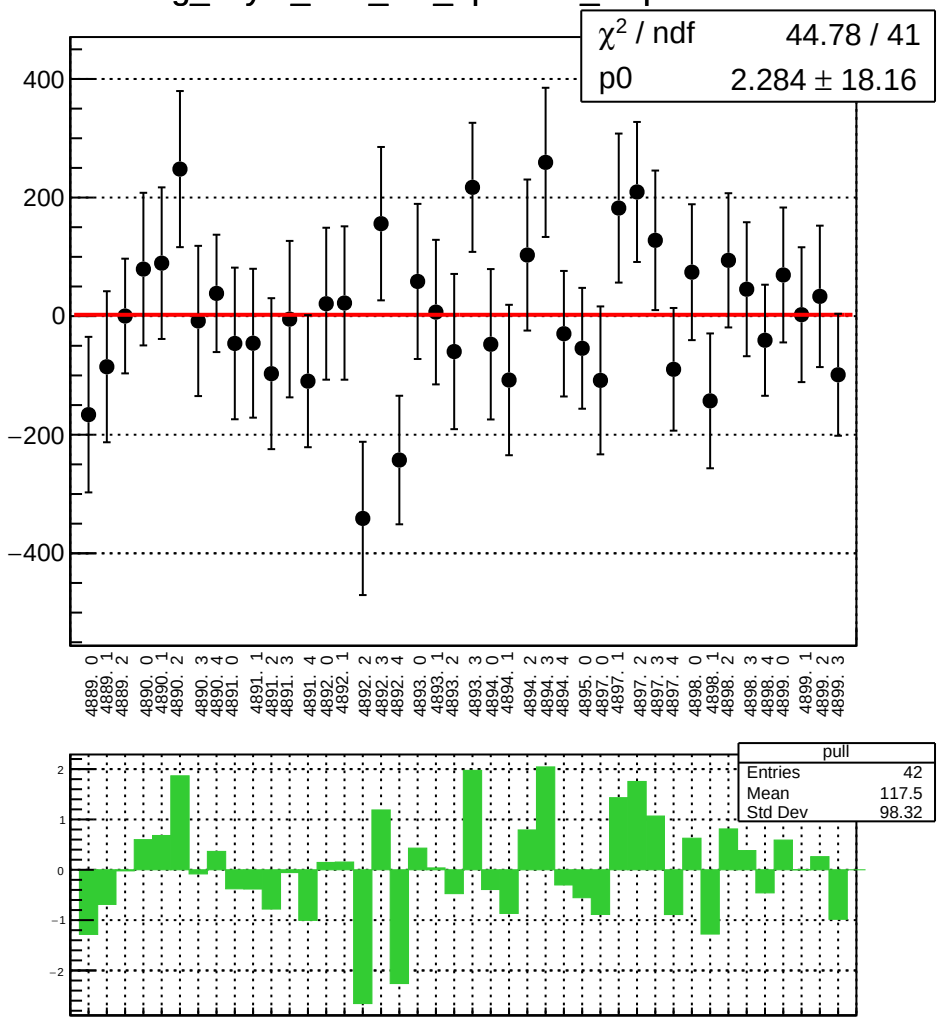

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 6.545 / 41
p0 −110.1± 3.035
pull
Entries 42
Mean −384.6
Std Dev 404.2

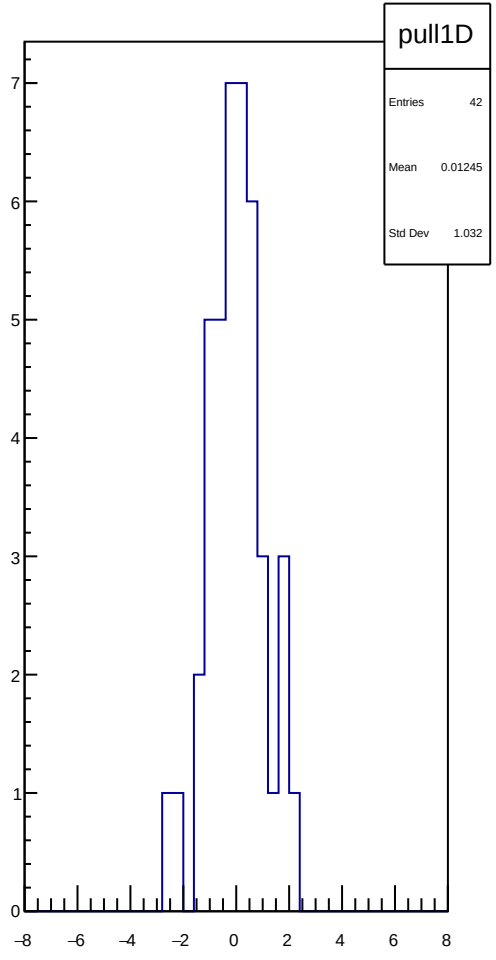

pull1D
Entries 42
Mean 0.003206
Std Dev 0.3947

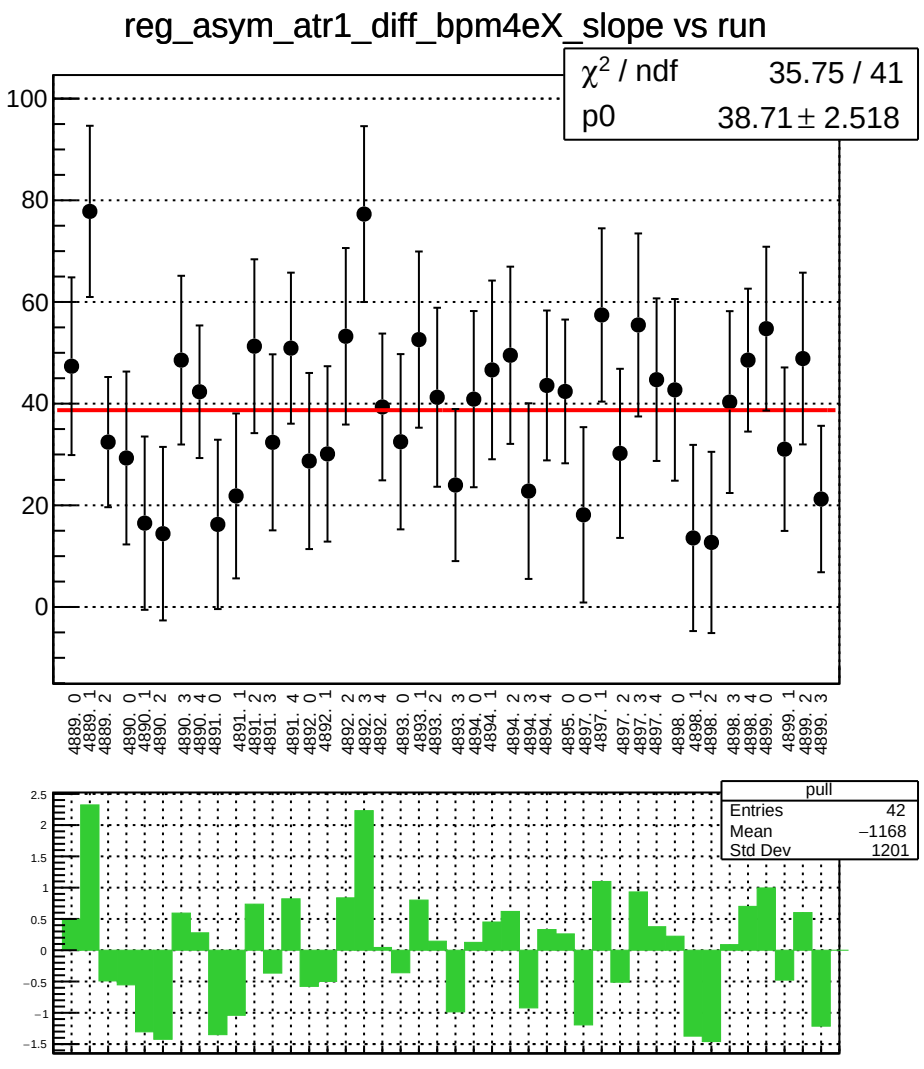

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 6.426 / 41
p0 −1.776 ± 0.5229
pull
Entries 42
Mean −521.2
Std Dev 536.7
pull1D
Entries 42
Mean 0.003098
Std Dev 0.3911

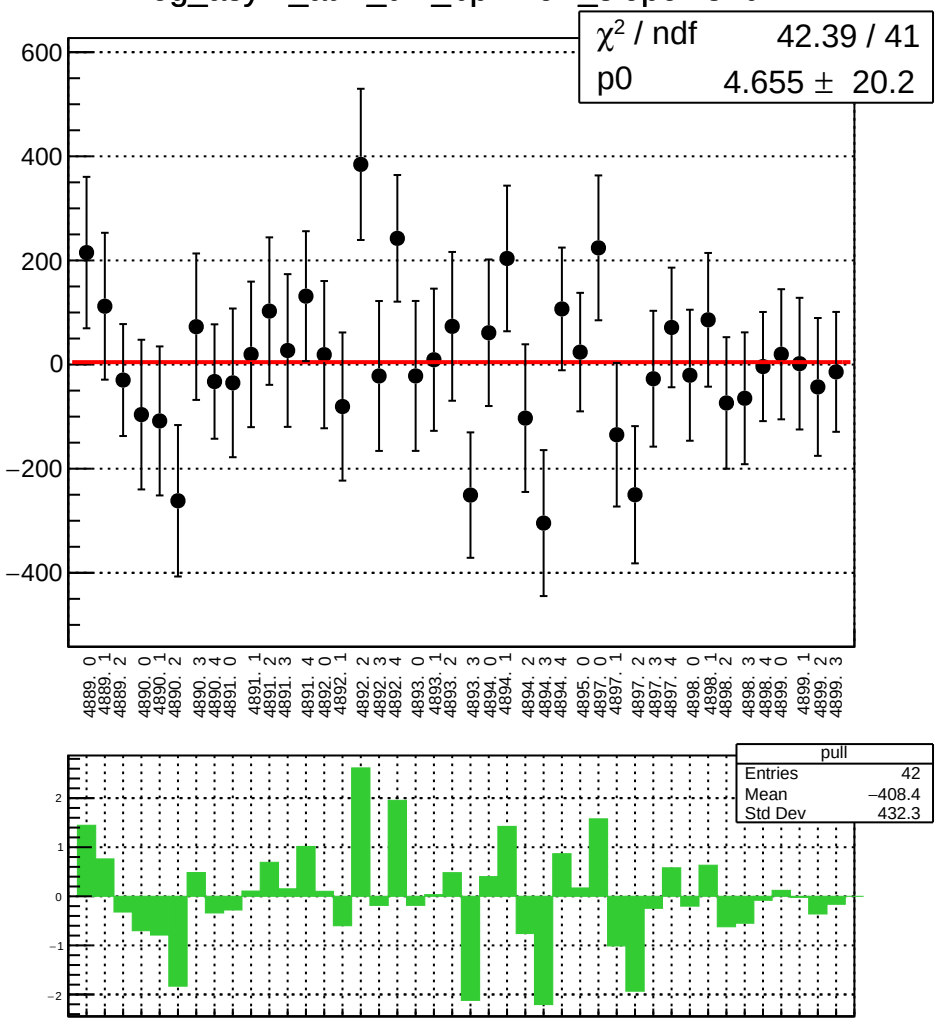

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 49.45 / 41
p0 −15.9 ± 13.39
pull
Entries 42
Mean −1383
Std Dev 1357

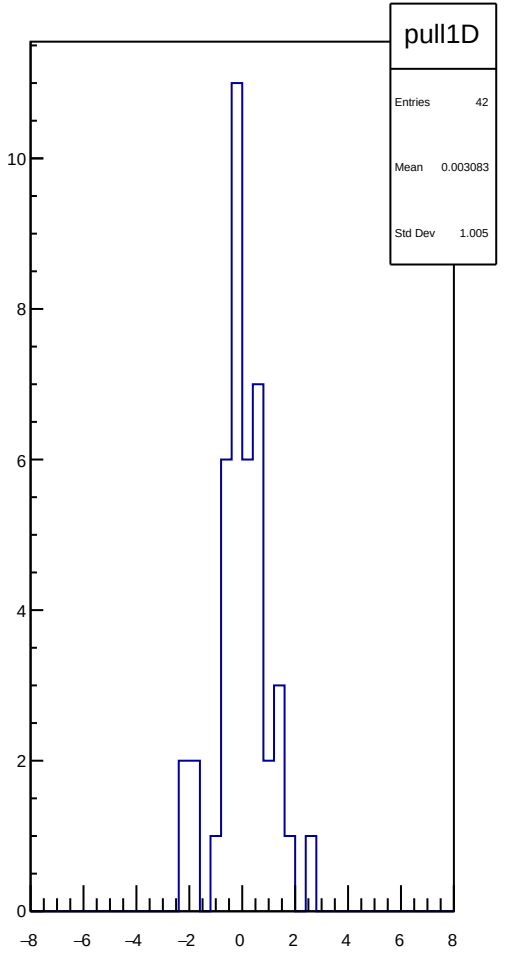

pull1D
Entries 42
Mean 0.0001856
Std Dev 1.085

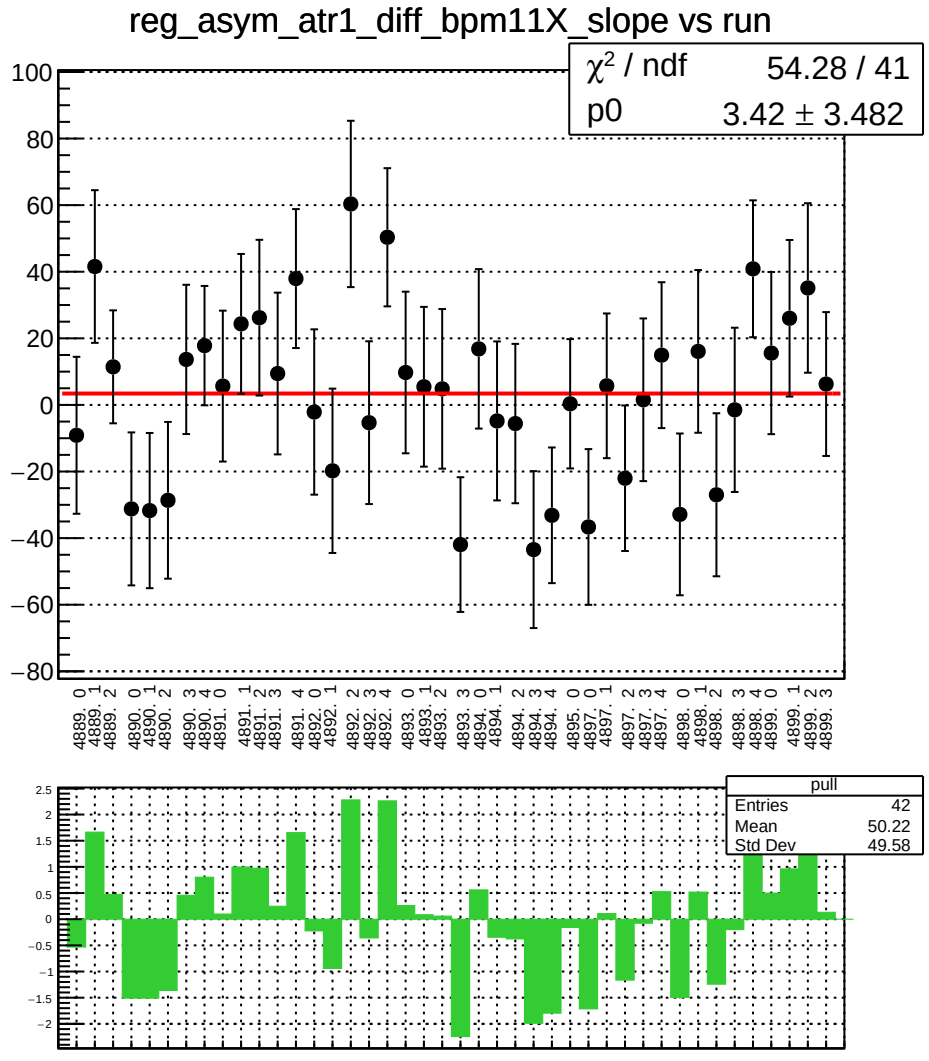

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 44.78 / 41
p0 2.284 ± 18.16
400
200
0
−200
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 117.5
Std Dev 98.32
2
1
0
−1
−2

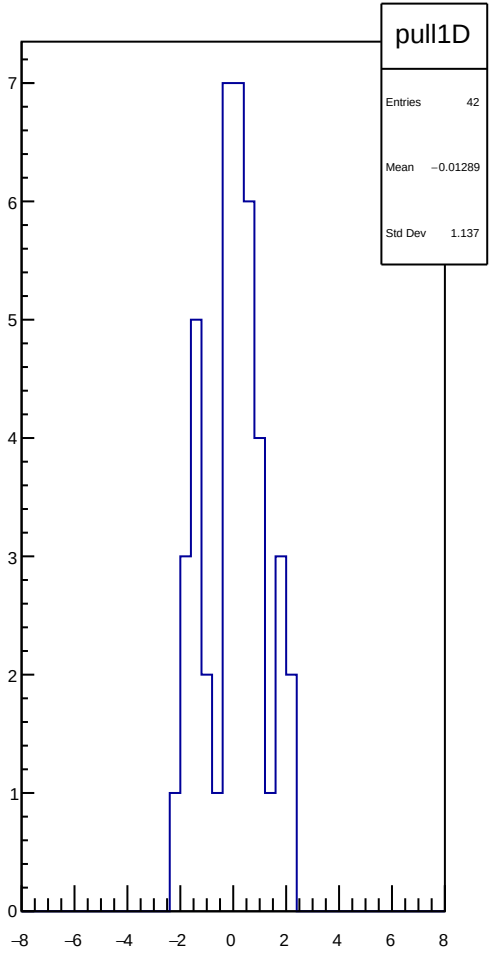

pull1D
Entries 42
Mean 0.01245
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

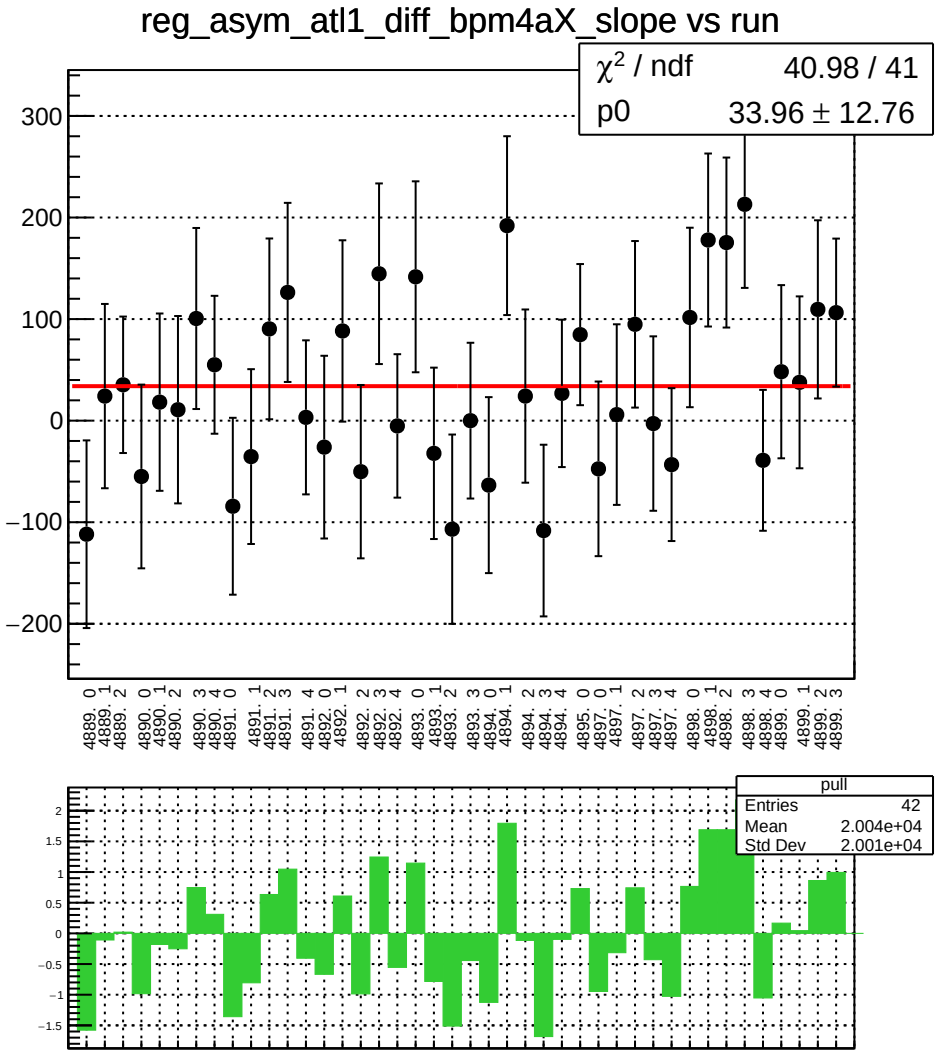

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 35.75 / 41
p0 38.71 ± 2.518
100
80
60
40
20
0
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −1168
Std Dev 1201
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.0002403
Std Dev 0.9227
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

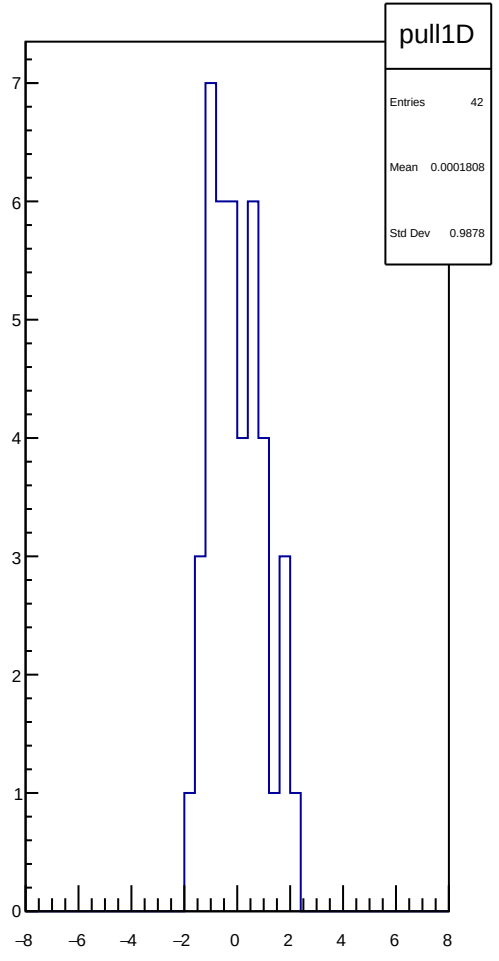

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 42.39 / 41
p0 4.655 ± 20.2
600
400
200
0
−200
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −408.4
Std Dev 432.3
2
1
0
−1
−2

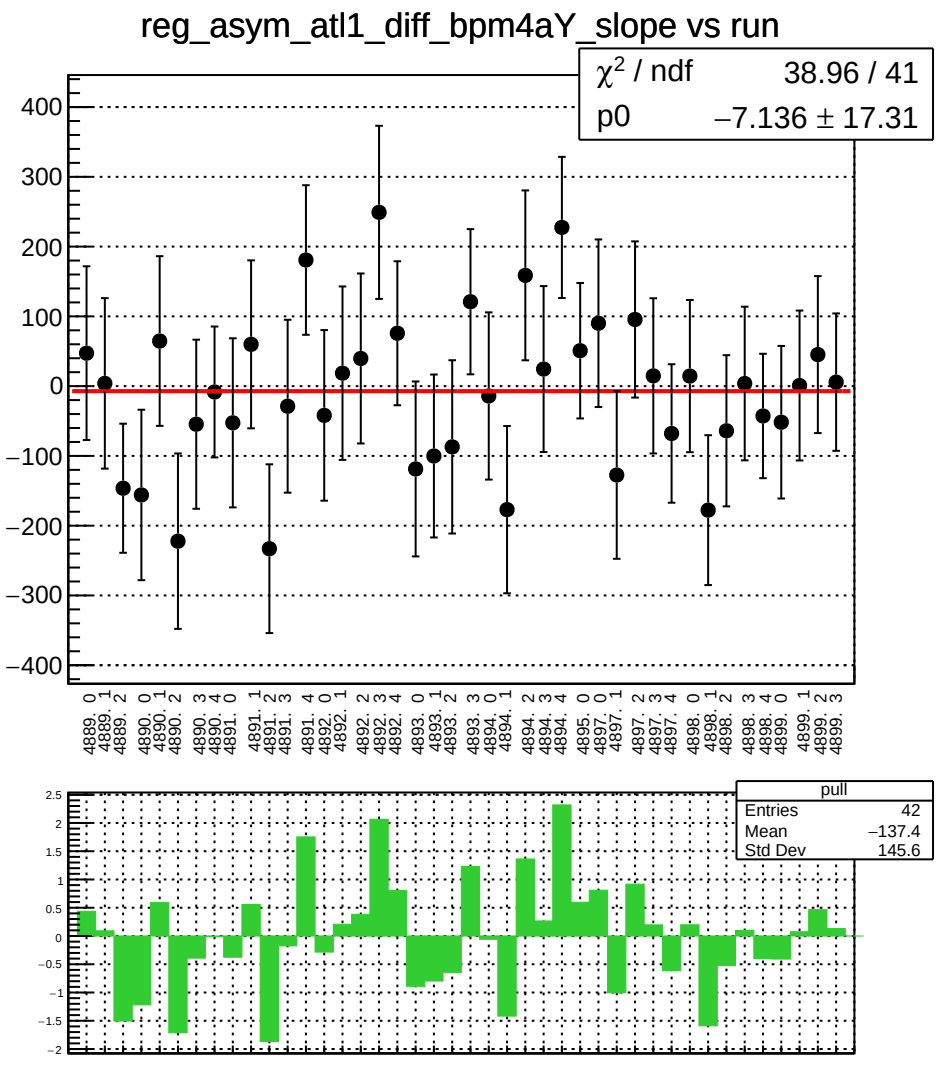

pull1D
Entries 42
Mean 0.003083
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

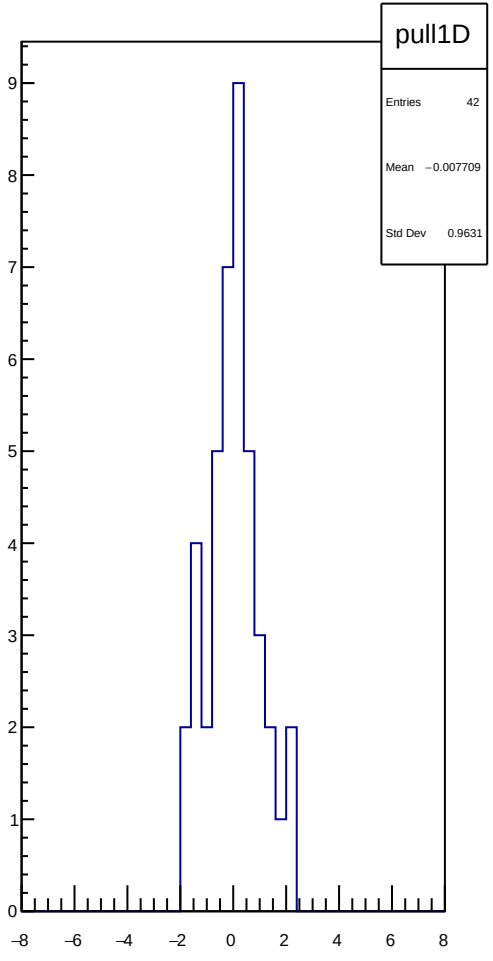

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 54.28 / 41
p0 3.42 ± 3.482
pull
Entries 42
Mean 50.22
Std Dev 49.58

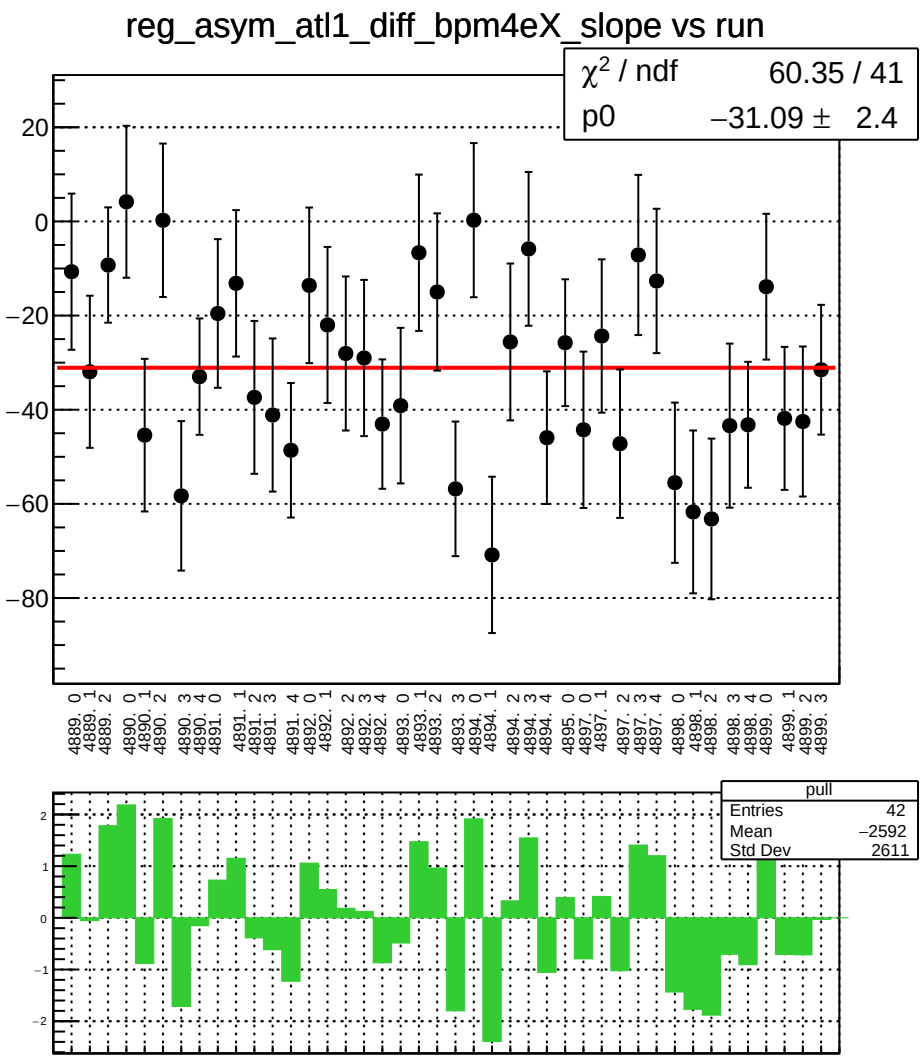

pull1D
Entries 42
Mean −0.01289
Std Dev 1.137

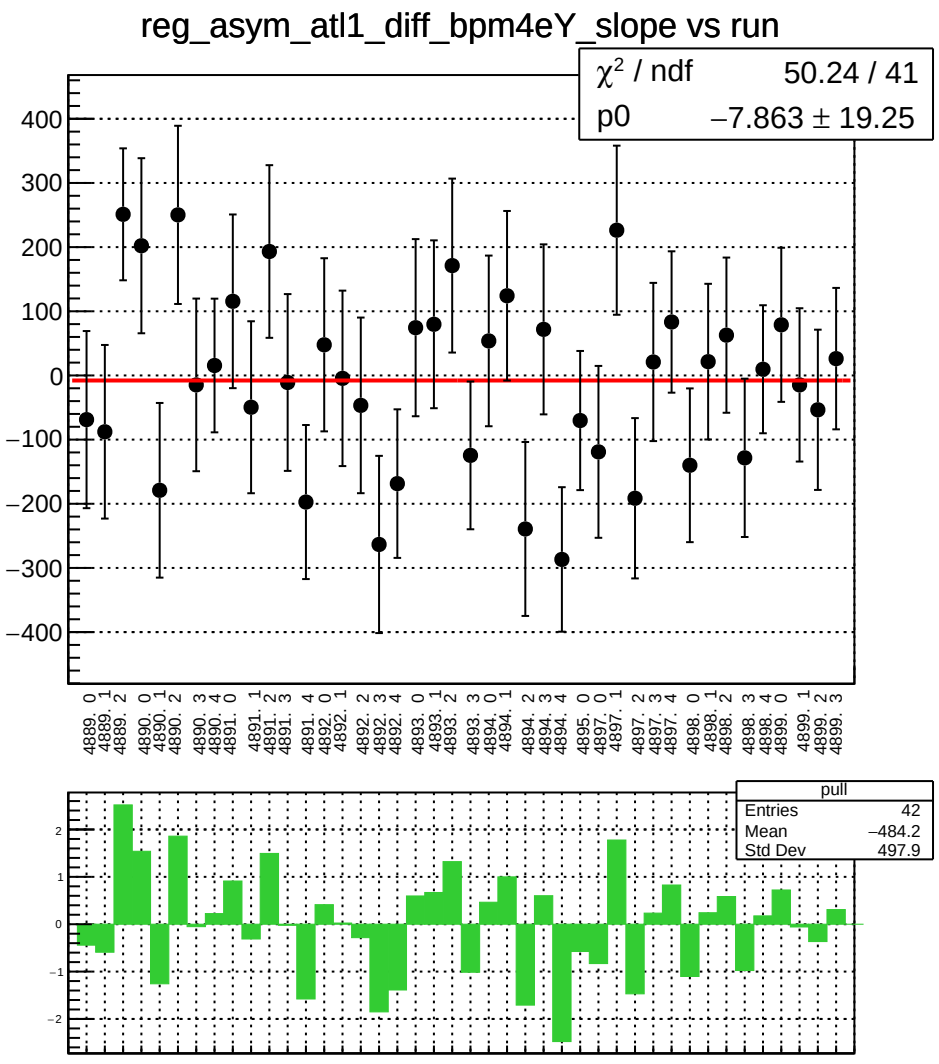

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 40.98 / 41
p0 33.96 ± 12.76
pull
Entries 42
Mean 2.004e+04
Std Dev 2.001e+04

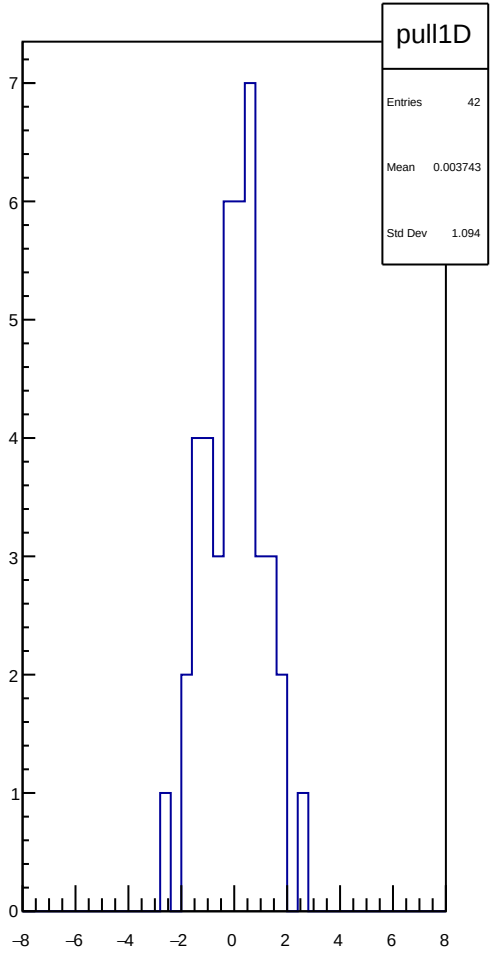

pull1D
Entries 42
Mean 0.0001808
Std Dev 0.9878

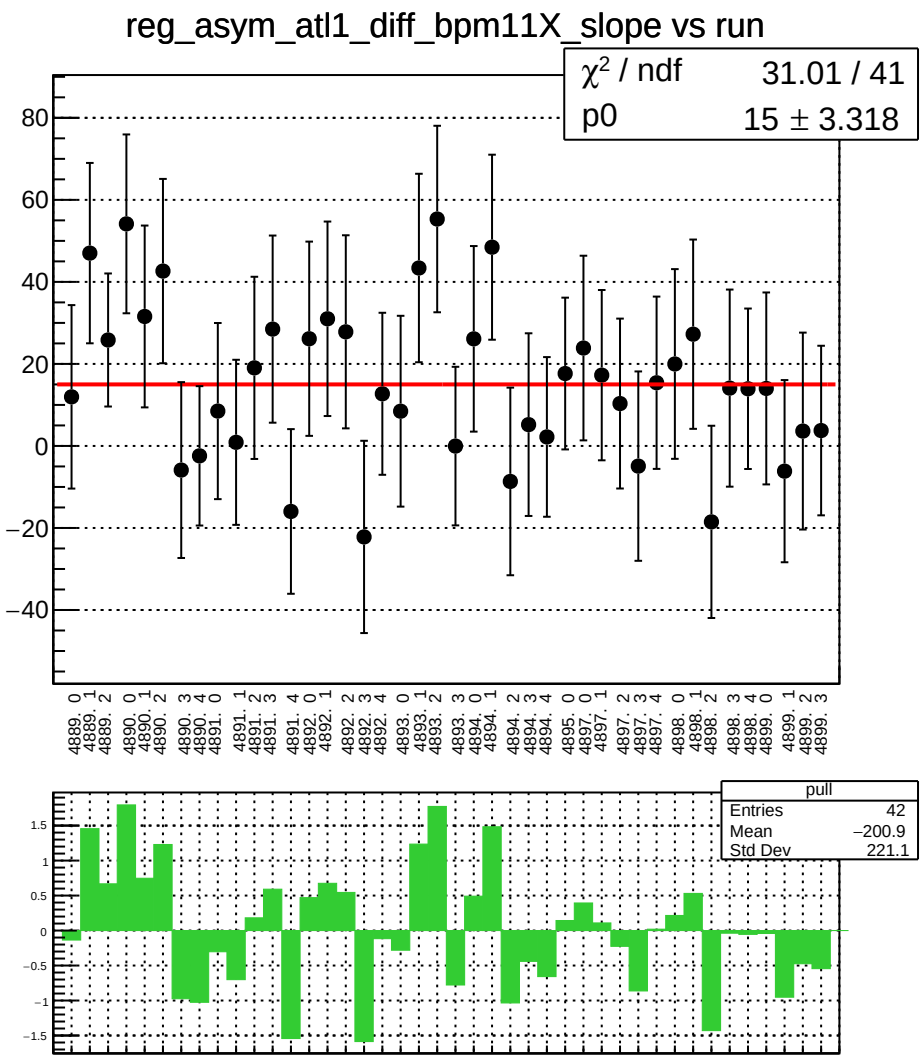

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 38.96 / 41
p0 −7.136 ± 17.31
pull
Entries 42
Mean −137.4
Std Dev 145.6

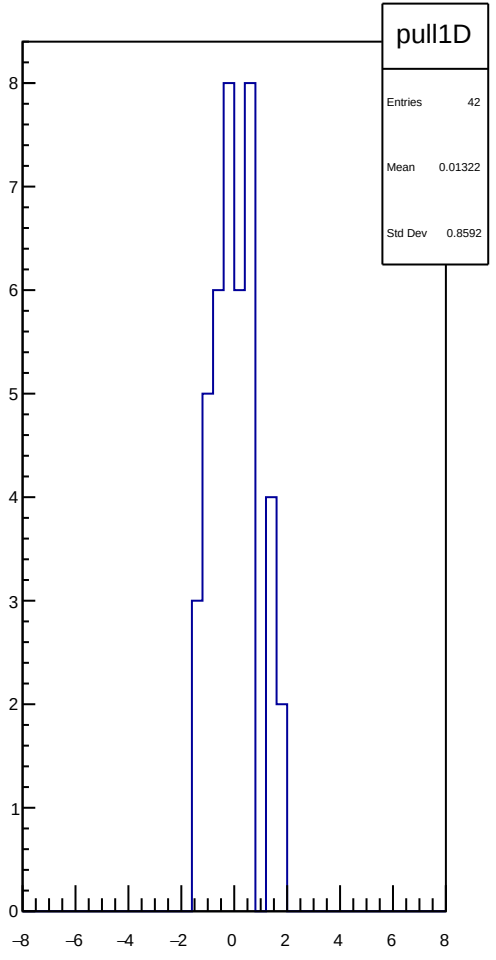

pull1D
Entries 42
Mean −0.007709
Std Dev 0.9631

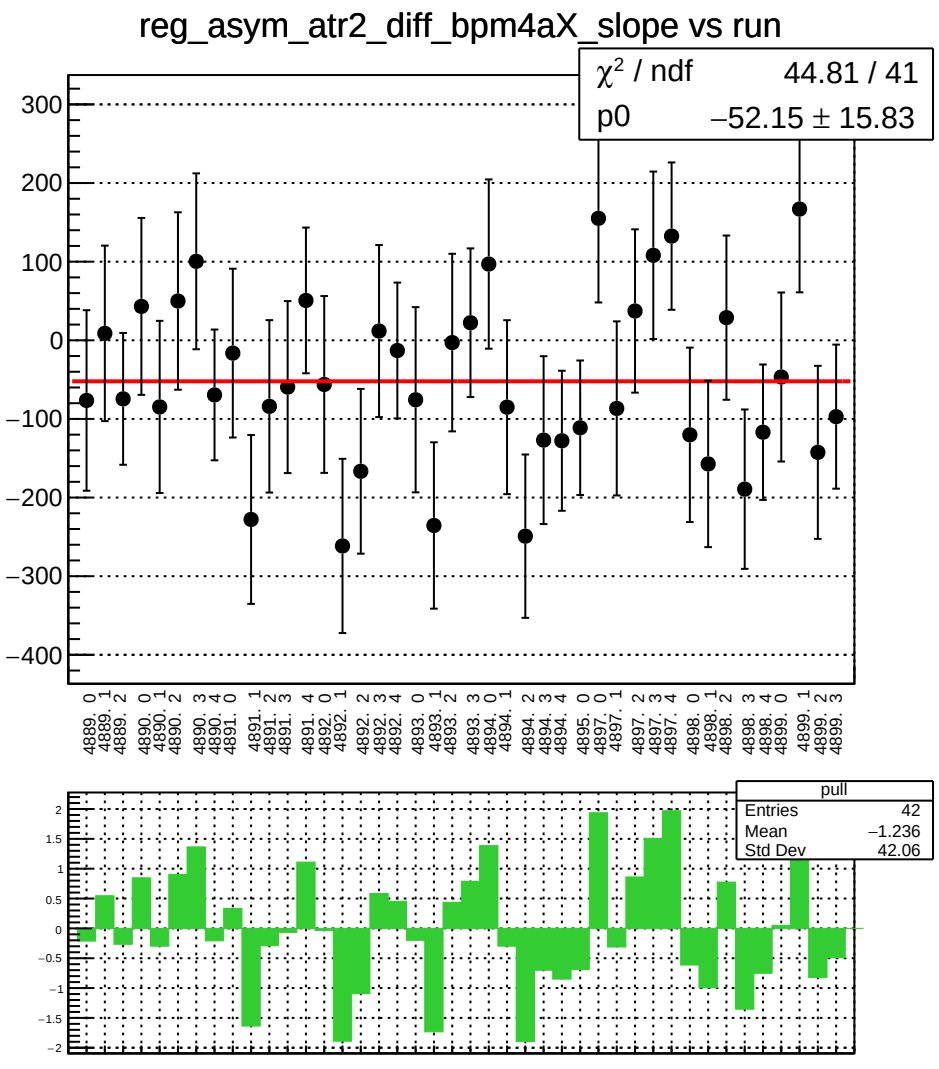

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 60.35 / 41
p0 −31.09 ± 2.4
20
0
−20
−40
−60
−80
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −2592
Std Dev 2611
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.001669
Std Dev 1.199
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

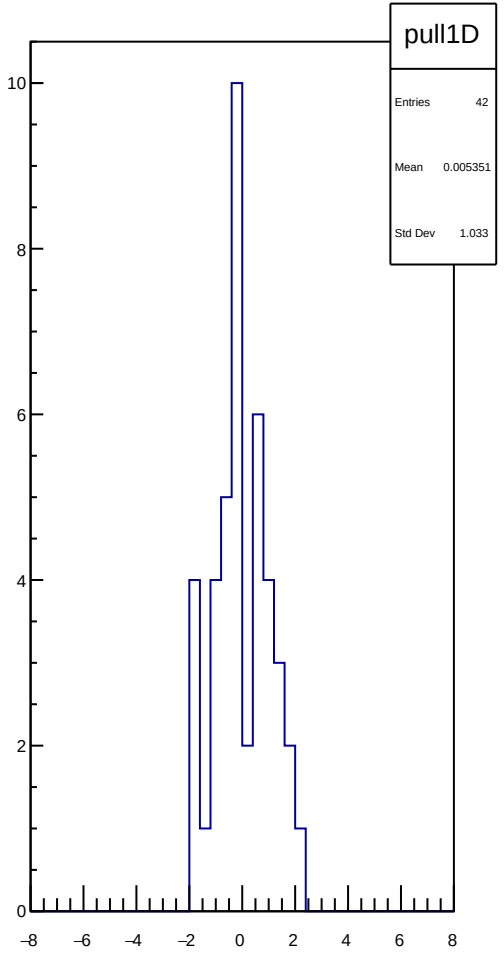

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 50.24 / 41
p0 −7.863 ± 19.25
pull
Entries 42
Mean −484.2
Std Dev 497.9

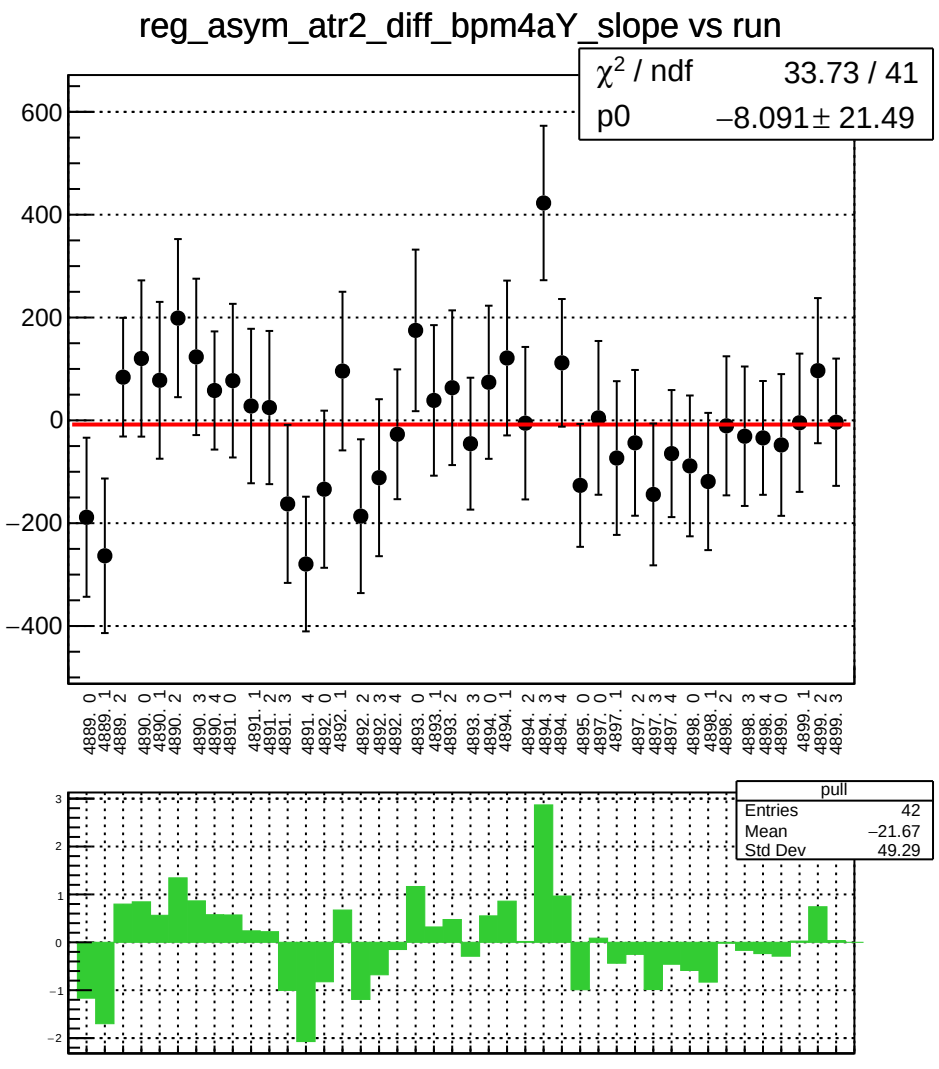

pull1D
Entries 42
Mean 0.003743
Std Dev 1.094

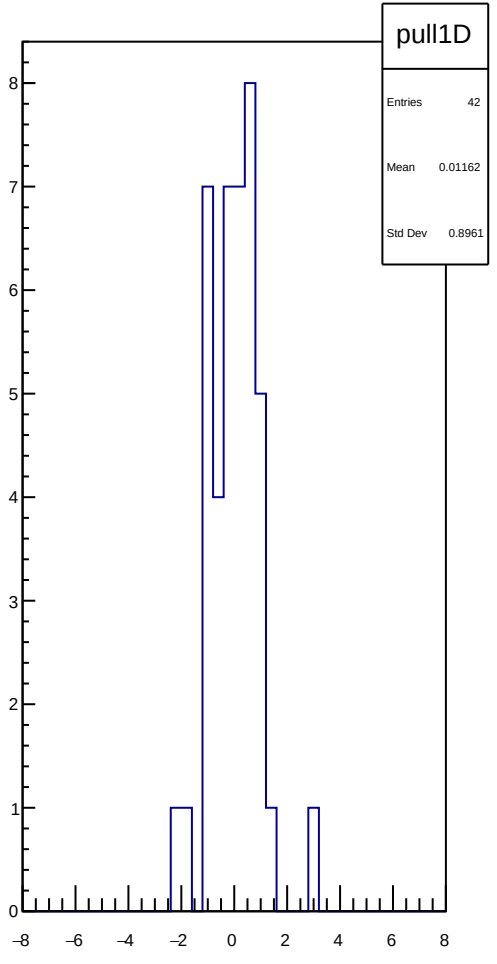

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 31.01 / 41
p0 15 ± 3.318
pull
Entries 42
Mean −200.9
Std Dev 221.1

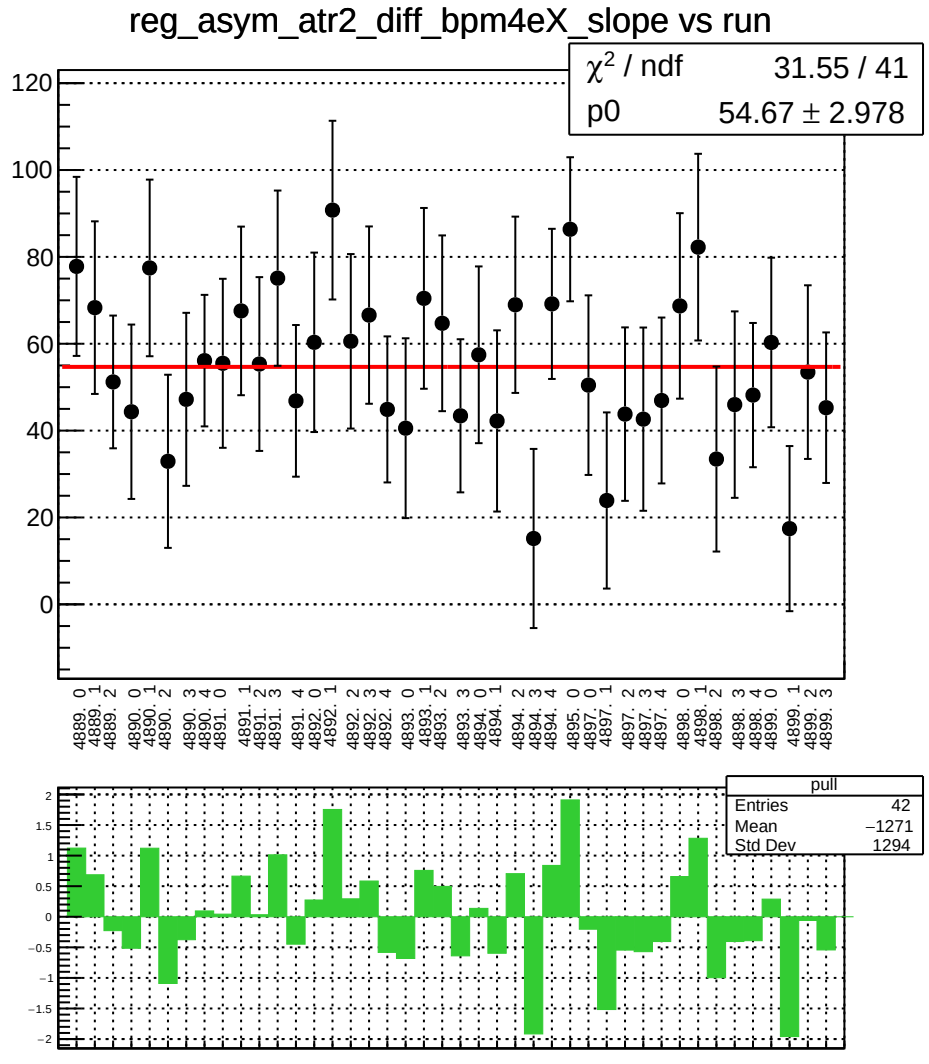

pull1D
Entries 42
Mean 0.01322
Std Dev 0.8592

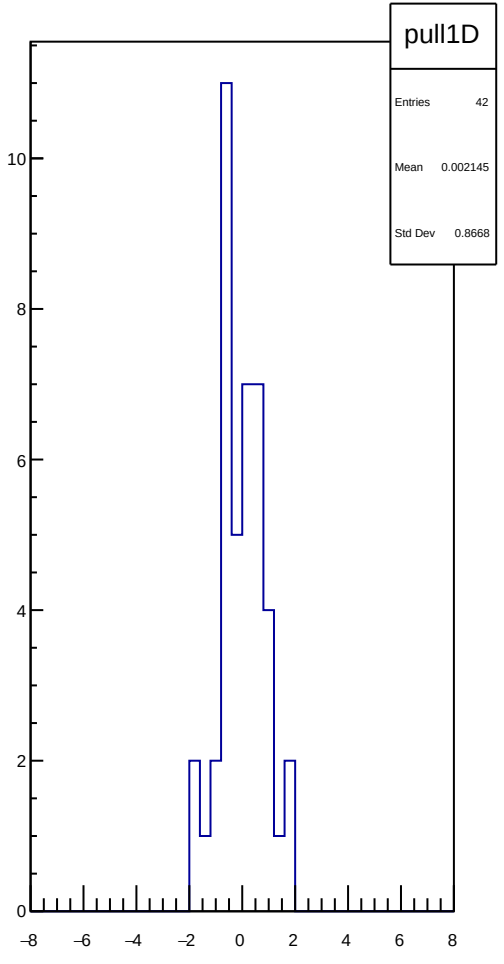

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 44.81 / 41
p0 −52.15 ± 15.83
pull
Entries 42
Mean −1.236
Std Dev 42.06

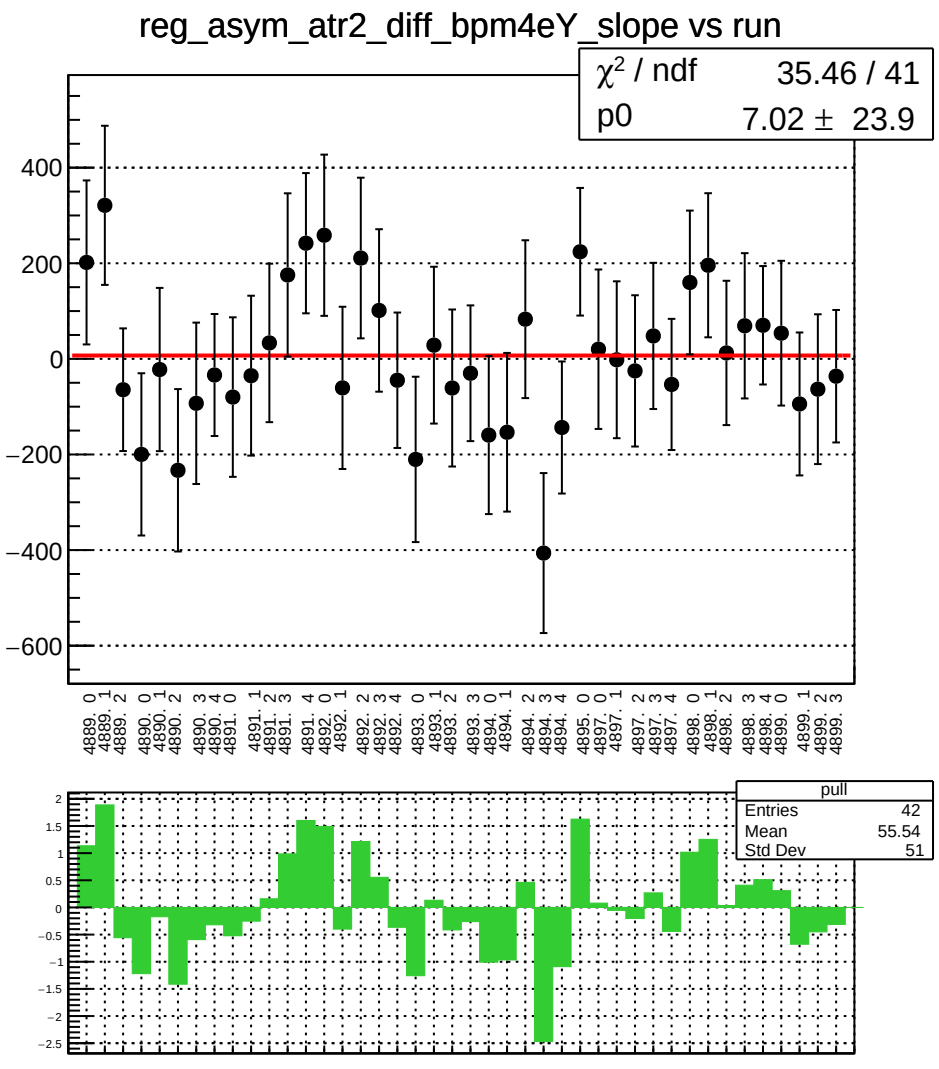

pull1D
Entries 42
Mean 0.005351
Std Dev 1.033

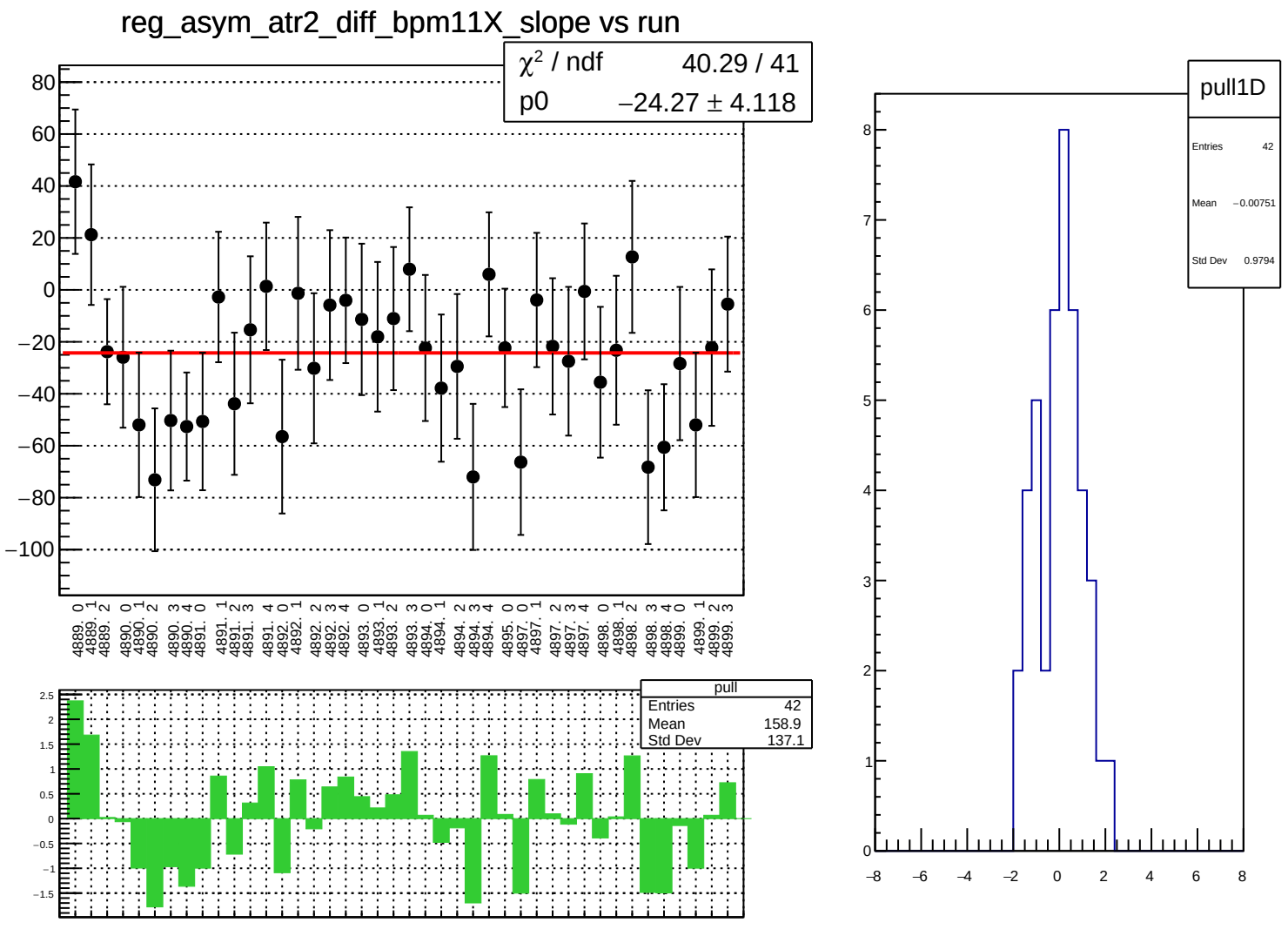

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 33.73 / 41
p0 −8.091 ± 21.49
pull
Entries 42
Mean −21.67
Std Dev 49.29

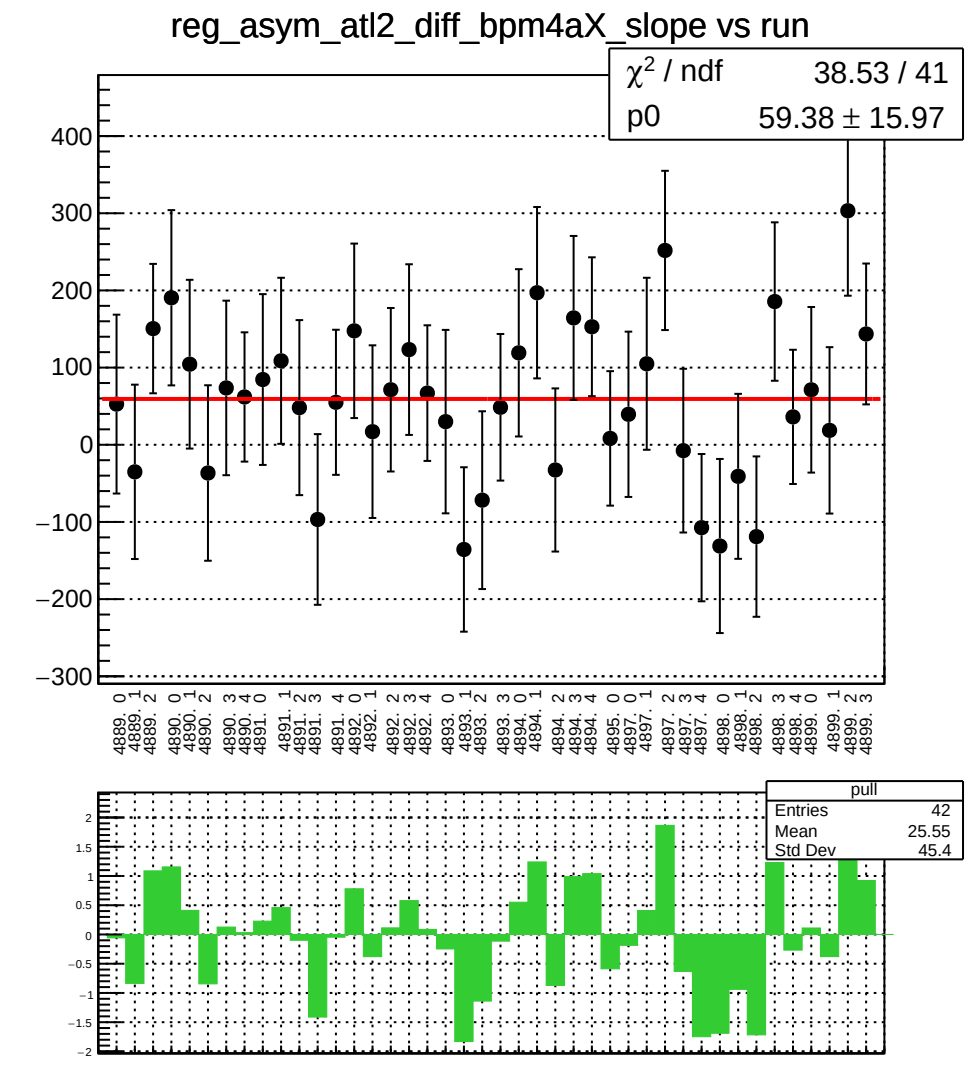

pull1D
Entries 42
Mean 0.01162
Std Dev 0.8961

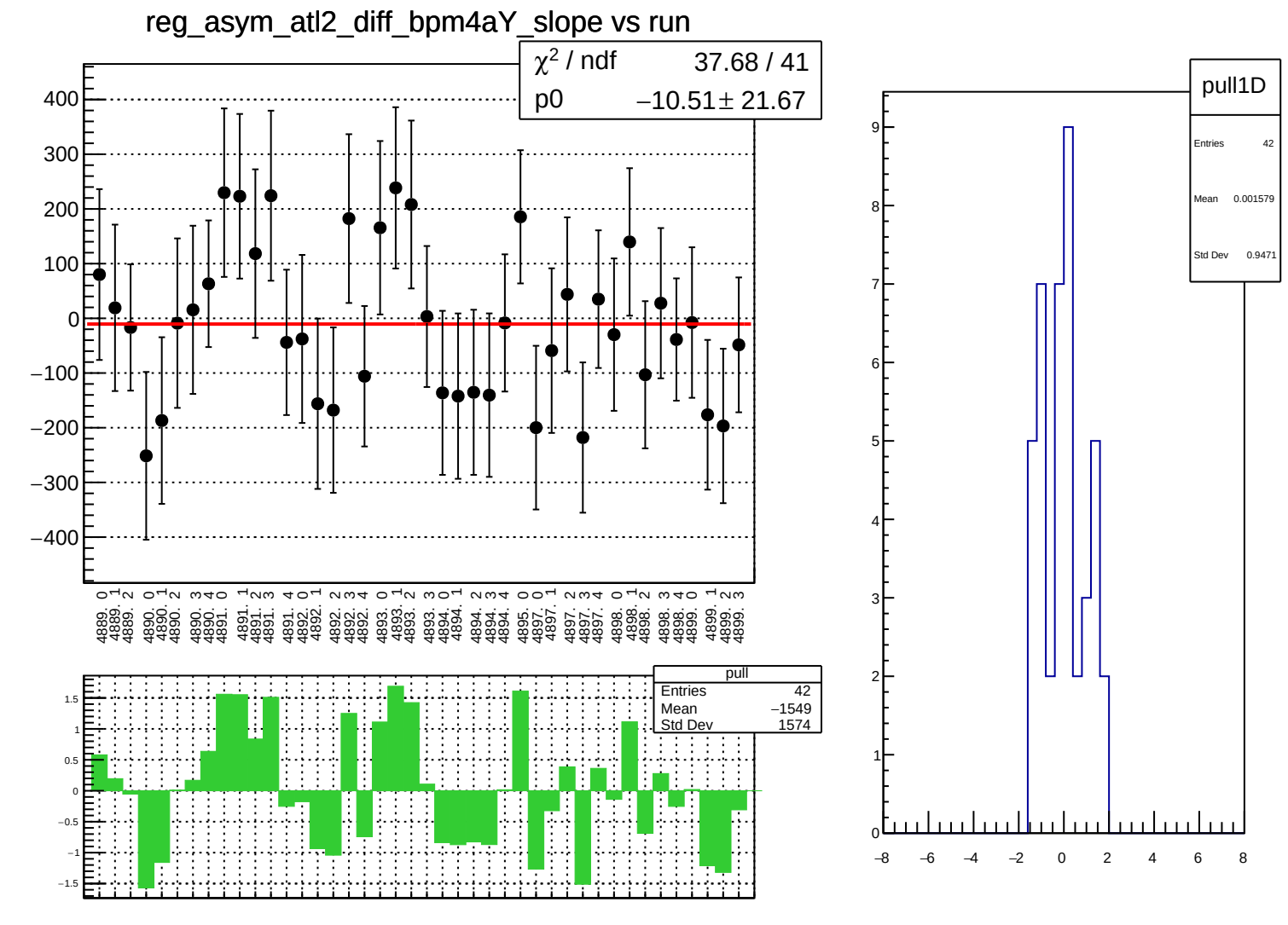

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 31.55 / 41
p0 54.67 ± 2.978
pull
Entries 42
Mean −1271
Std Dev 1294

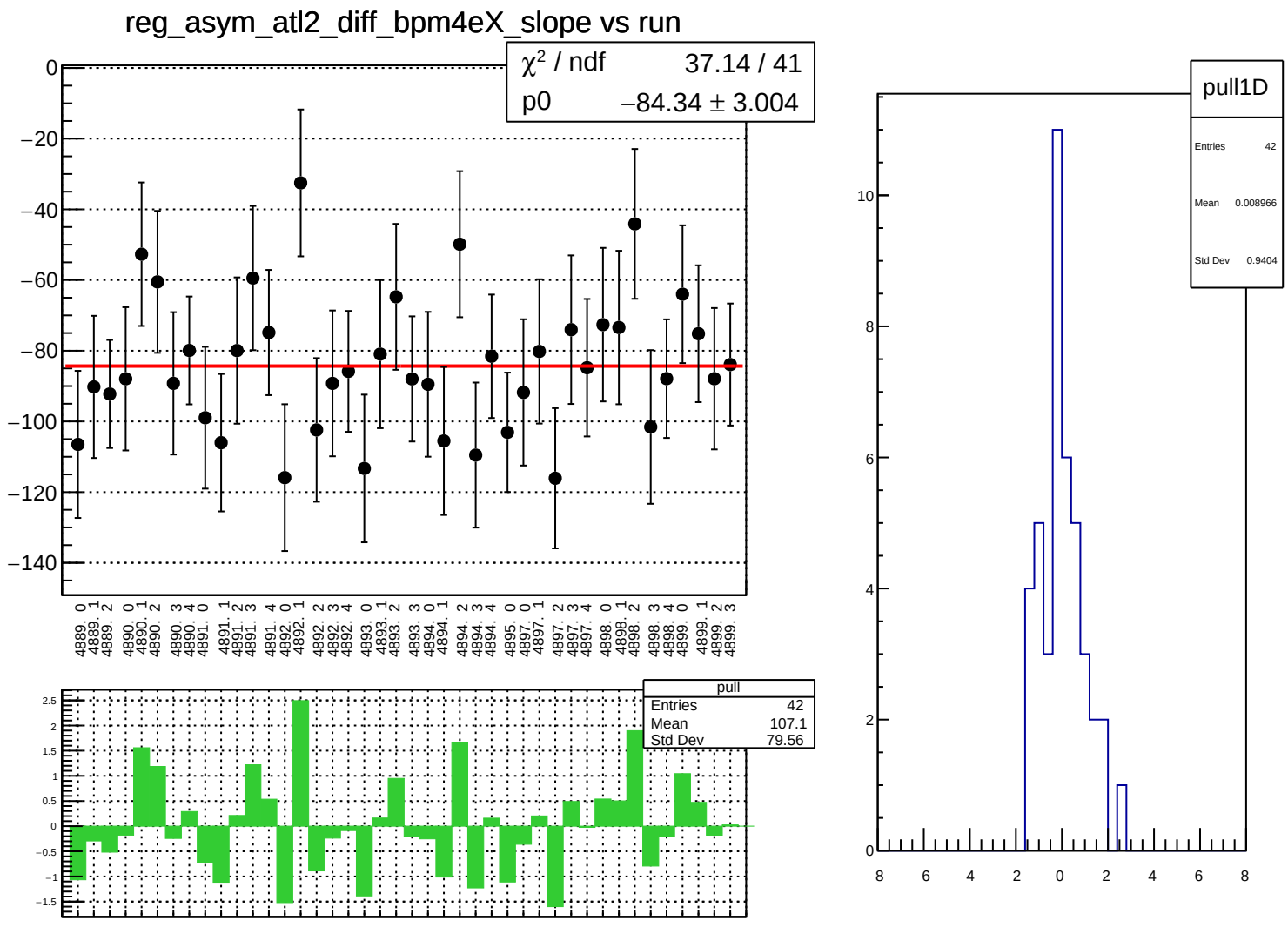

pull1D
Entries 42
Mean 0.002145
Std Dev 0.8668

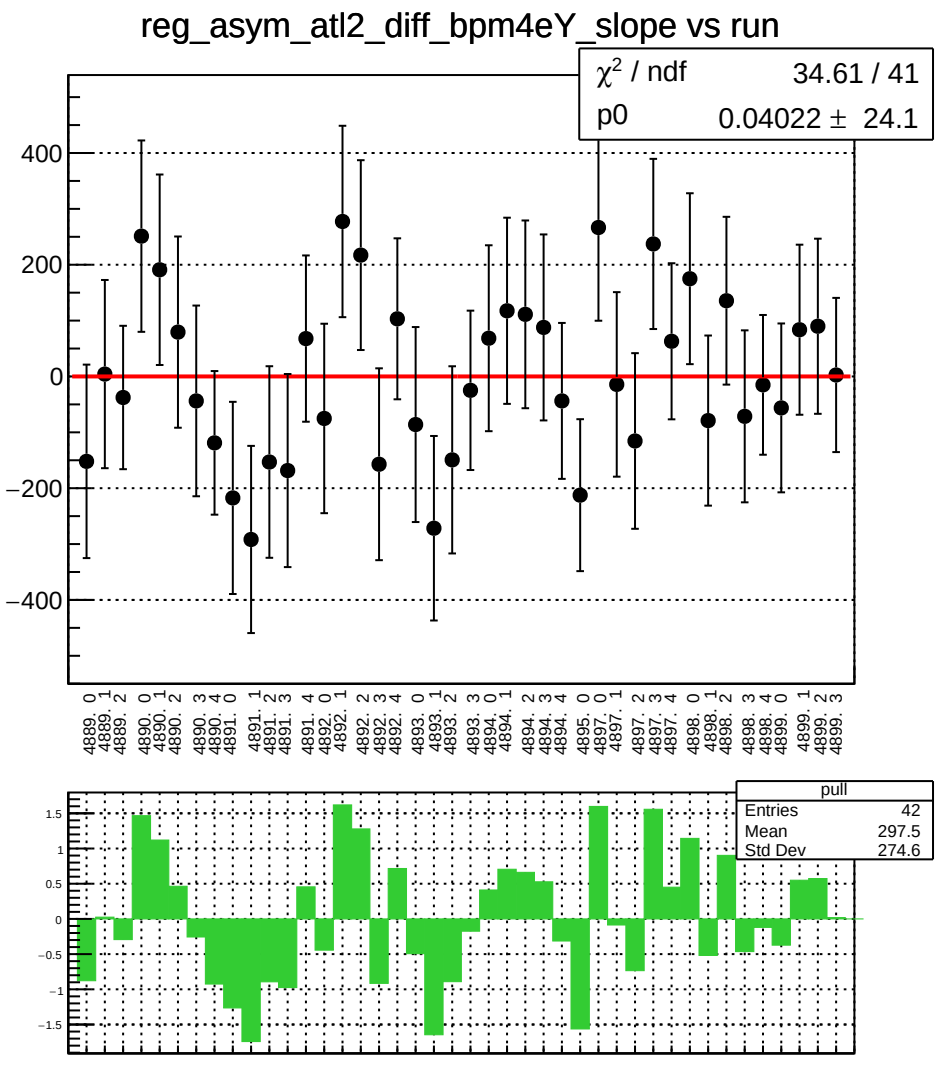

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 35.46 / 41
p0 7.02 ± 23.9
400
200
0
−200
−400
−600
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 55.54
Std Dev 51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean −0.006782
Std Dev 0.9188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

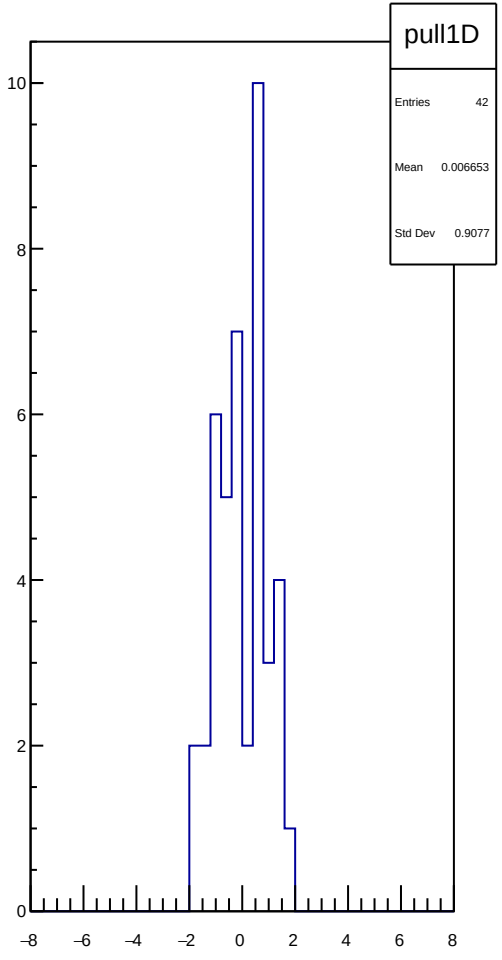

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 40.29 / 41
p0 −24.27 ± 4.118
pull
Entries 42
Mean 158.9
Std Dev 137.1
pull1D
Entries 42
Mean −0.00751
Std Dev 0.9794

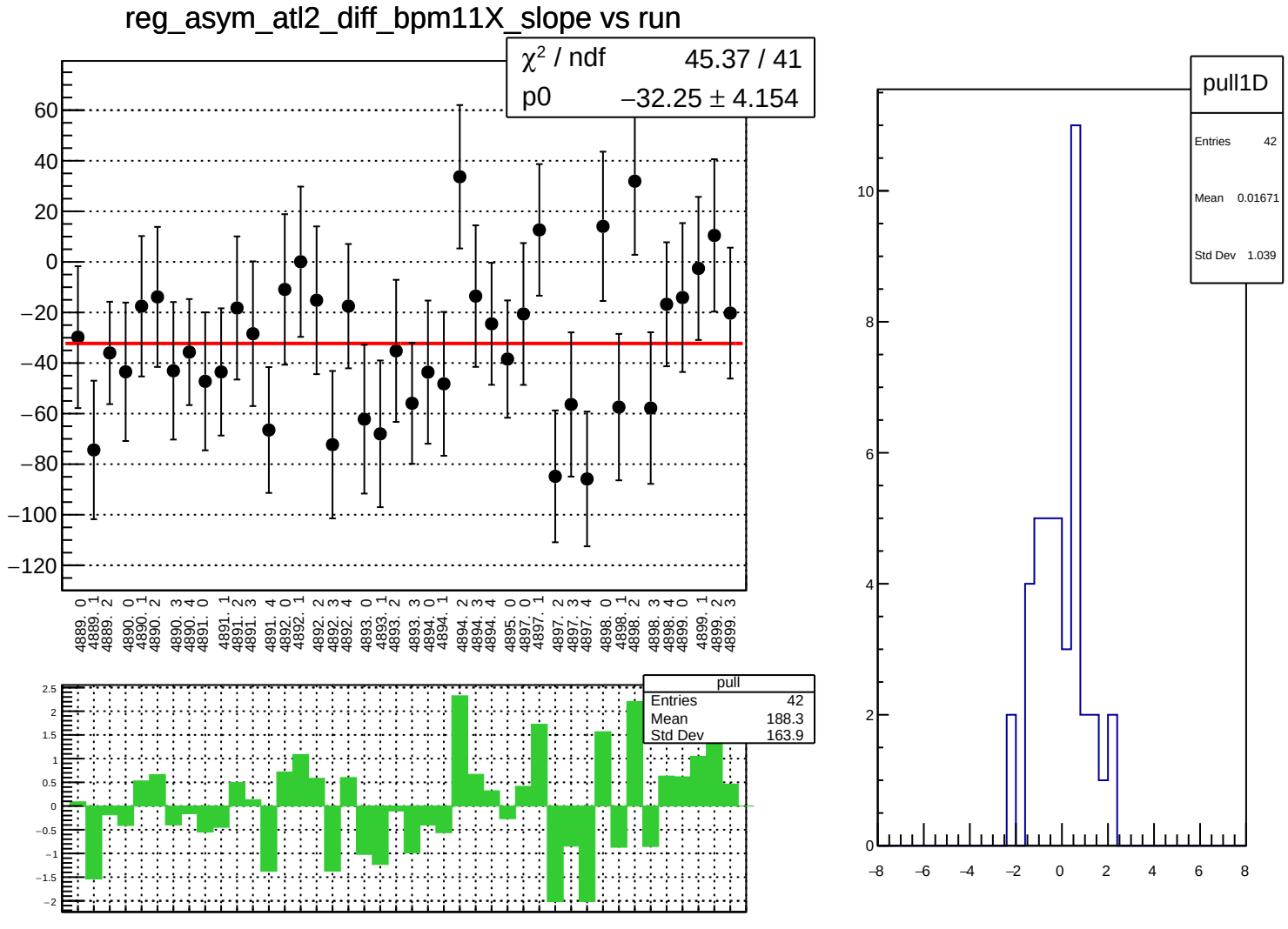

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 38.53 / 41
p0 59.38 ± 15.97
400
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 25.55
Std Dev 45.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.009229
Std Dev 0.9578
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

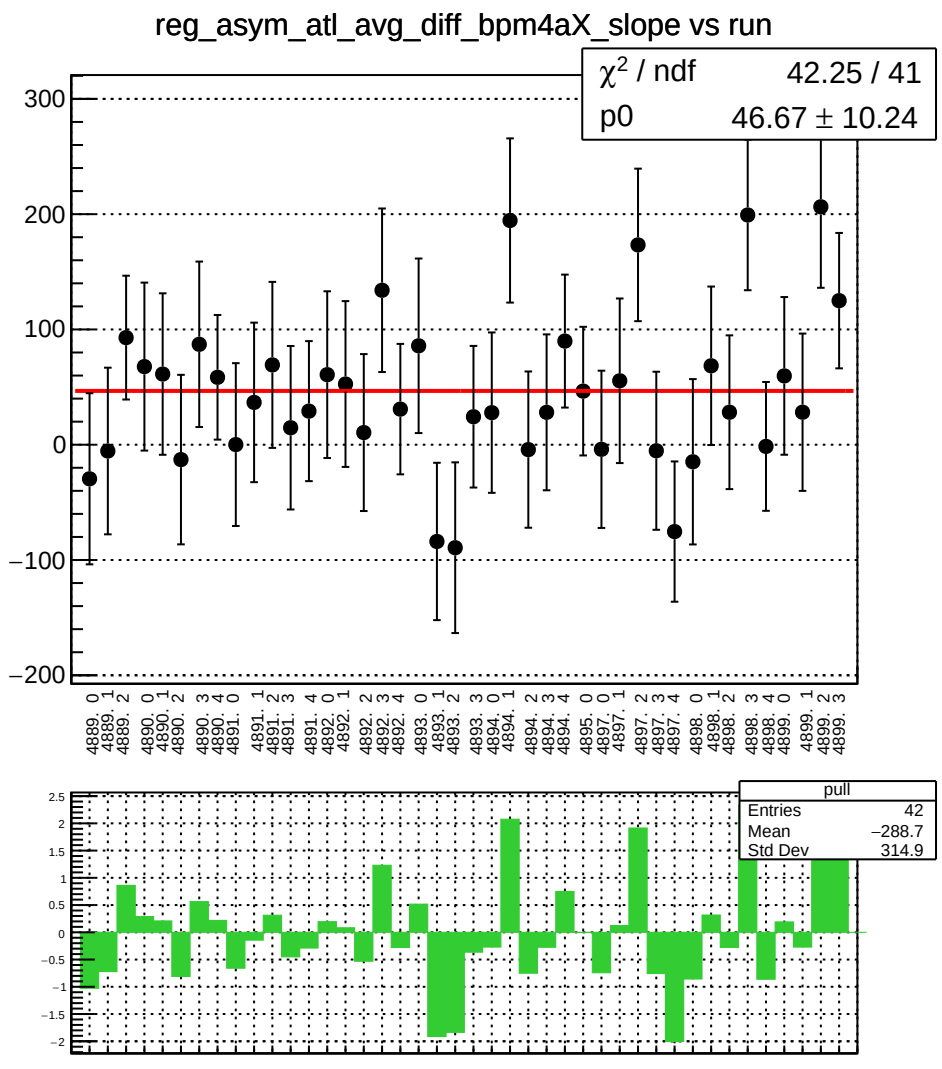

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 37.68 / 41
p0 −10.51 ± 21.67
400
300
200
100
0
−100
−200
−300
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −1549
Std Dev 1574
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.001579
Std Dev 0.9471
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

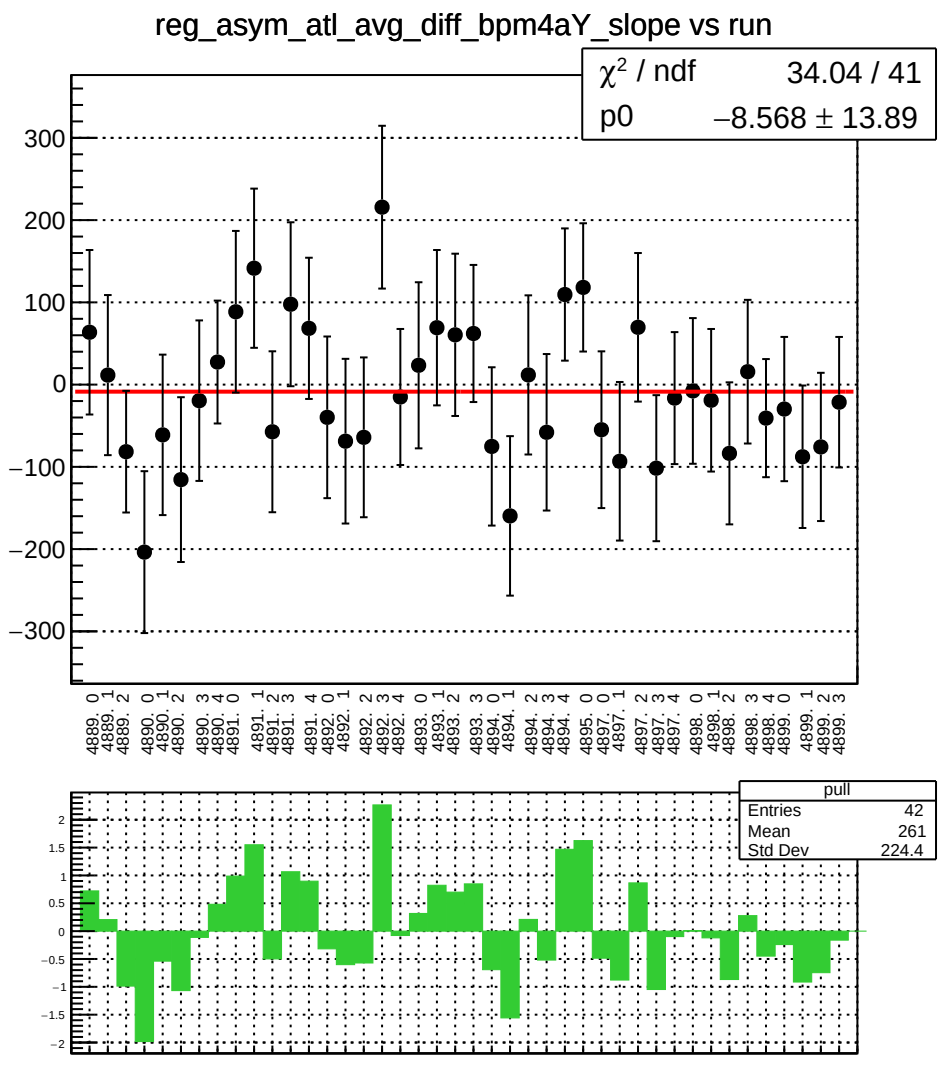

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 37.14 / 41
p0 −84.34 ± 3.004
pull
Entries 42
Mean 107.1
Std Dev 79.56
pull1D
Entries 42
Mean 0.008966
Std Dev 0.9404

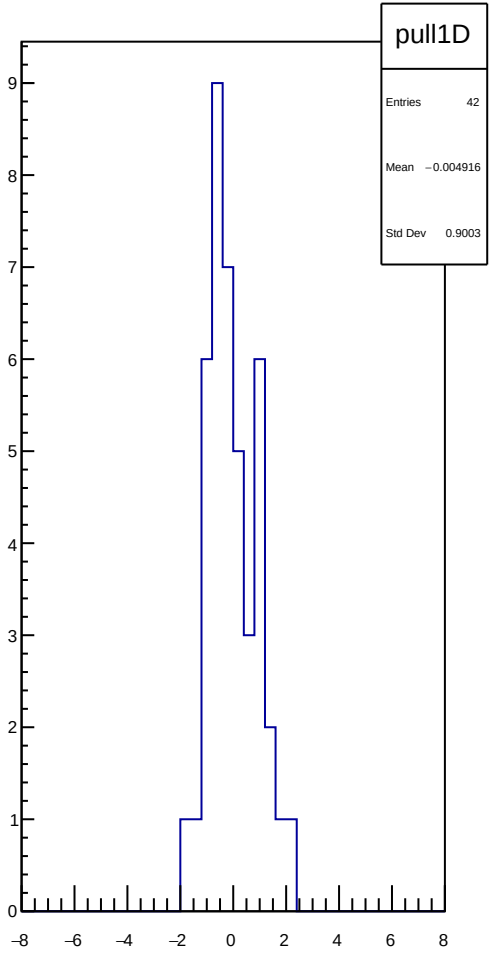

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 34.61 / 41
p0 0.04022 ± 24.1
400
200
0
−200
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 297.5
Std Dev 274.6
1.5
1
0.5
0
−0.5
−1
−1.5

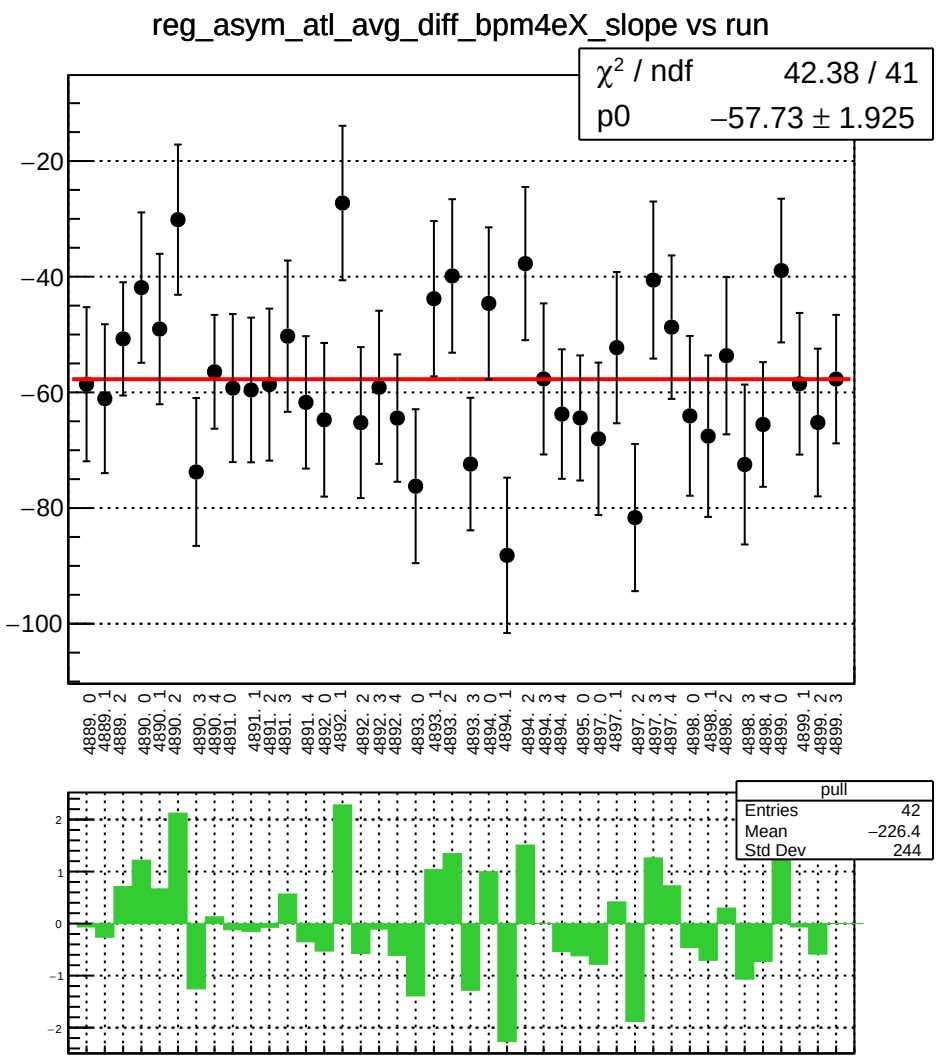

pull1D
Entries 42
Mean 0.006653
Std Dev 0.9077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

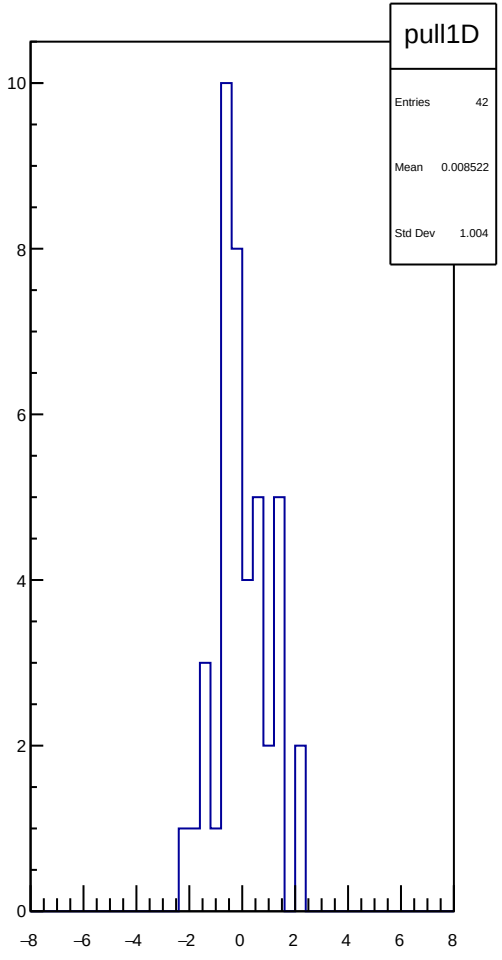

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 45.37 / 41
p0 −32.25 ± 4.154
pull
Entries 42
Mean 188.3
Std Dev 163.9
pull1D
Entries 42
Mean 0.01671
Std Dev 1.039

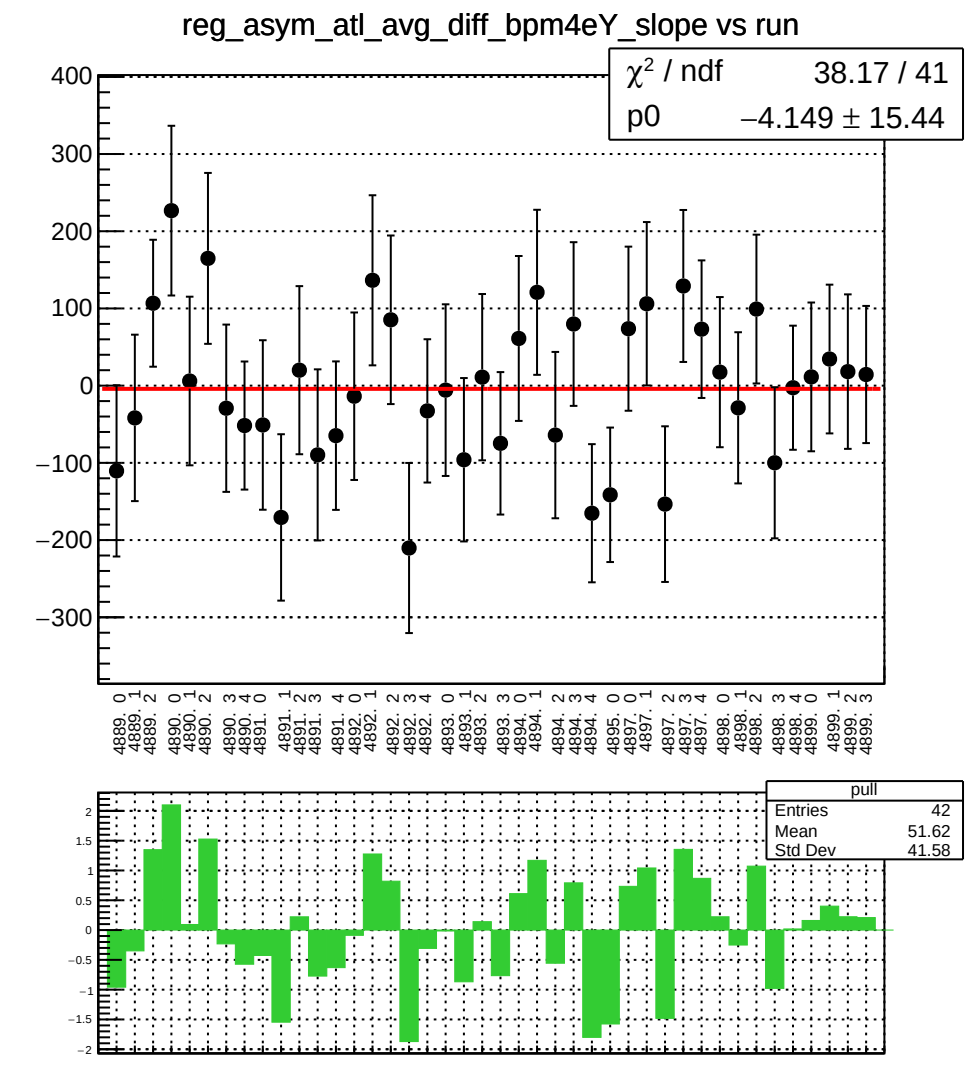

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 42.25 / 41
p0 46.67 ± 10.24
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −288.7
Std Dev 314.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.007176
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

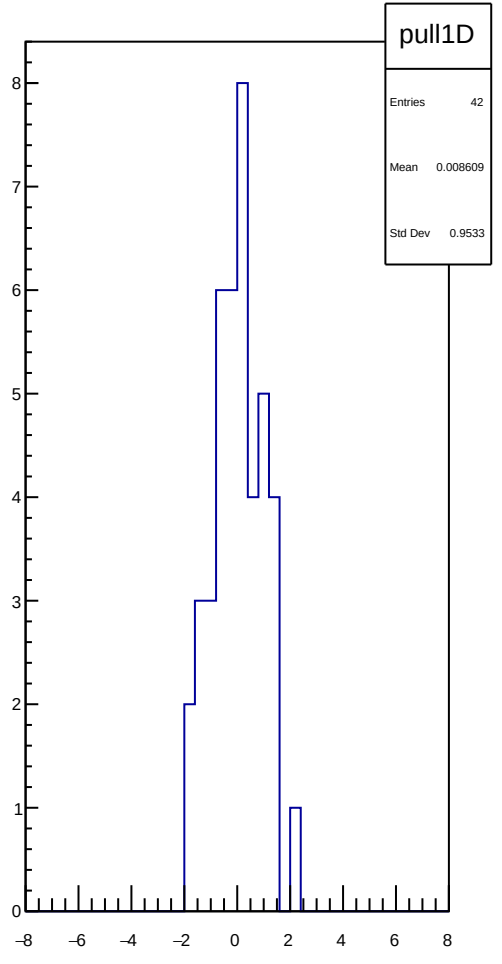

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.04 / 41
p0 −8.568 ± 13.89
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 261
Std Dev 224.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

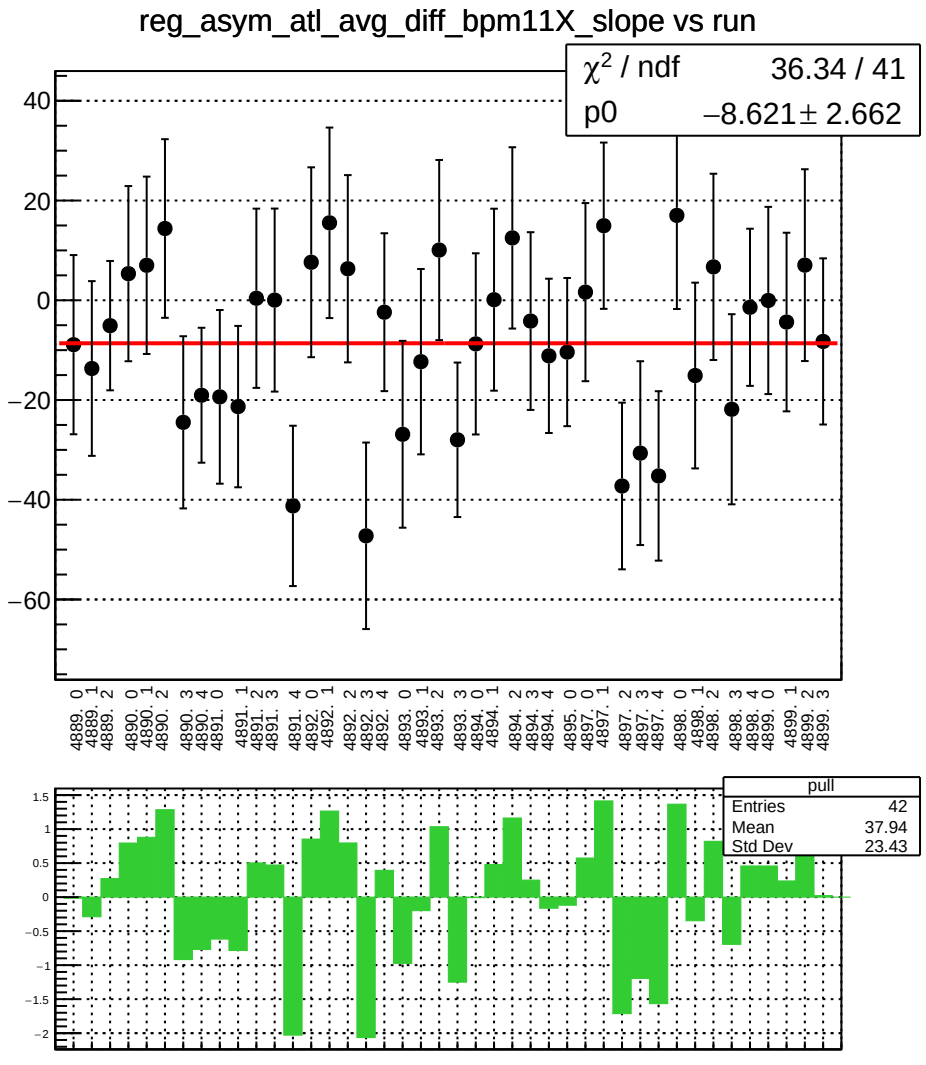

pull1D
Entries 42
Mean −0.004916
Std Dev 0.9003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

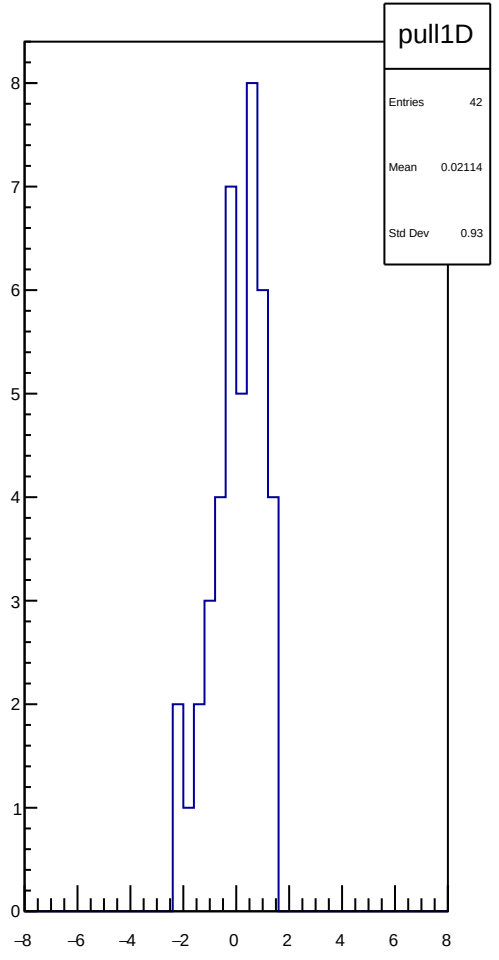

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.38 / 41
p0 −57.73 ± 1.925
pull
Entries 42
Mean −226.4
Std Dev 244

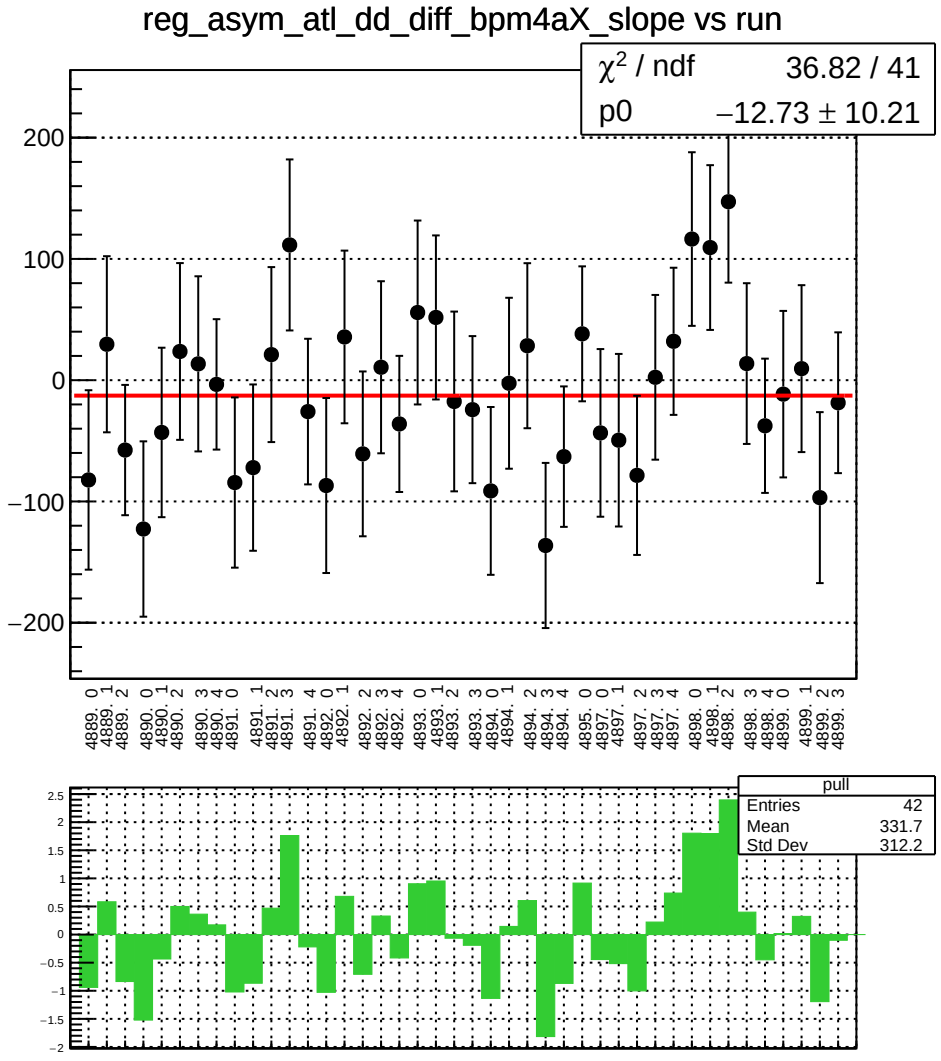

pull1D
Entries 42
Mean 0.008522
Std Dev 1.004

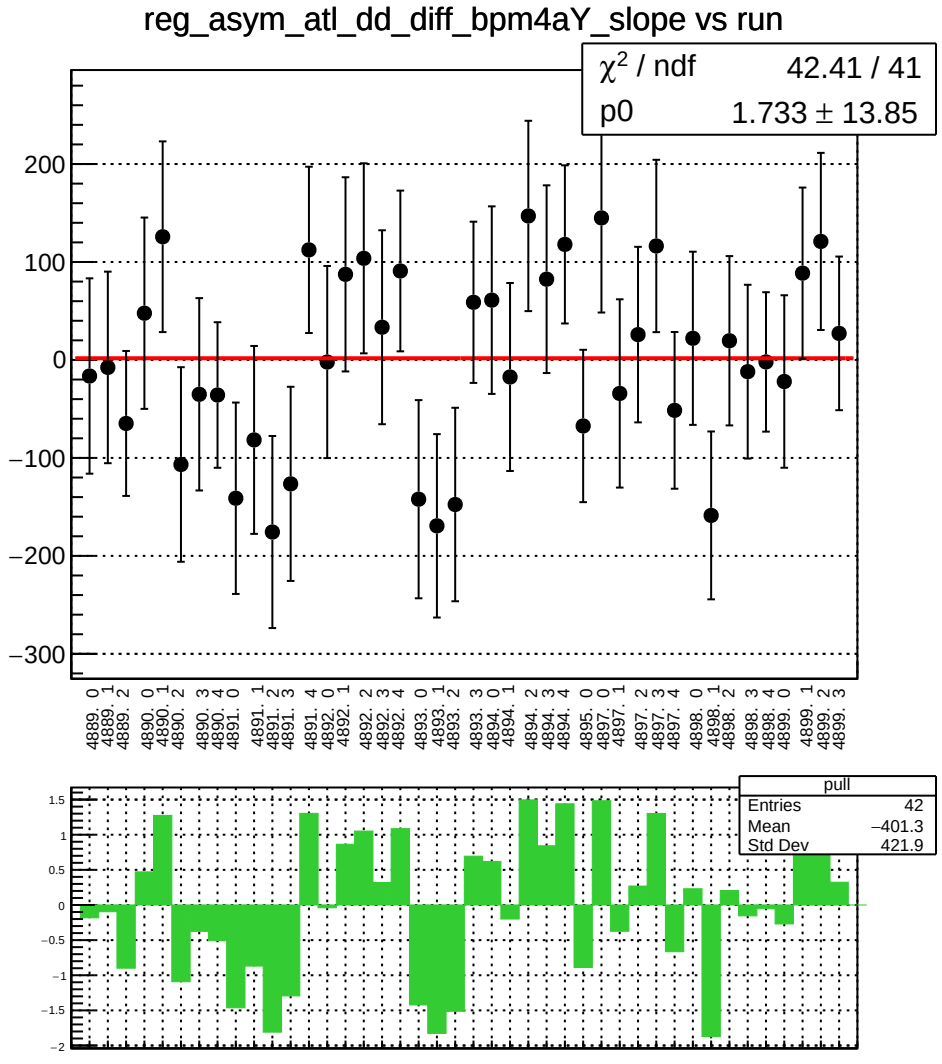

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.17 / 41
p0 −4.149 ± 15.44
pull
Entries 42
Mean 51.62
Std Dev 41.58

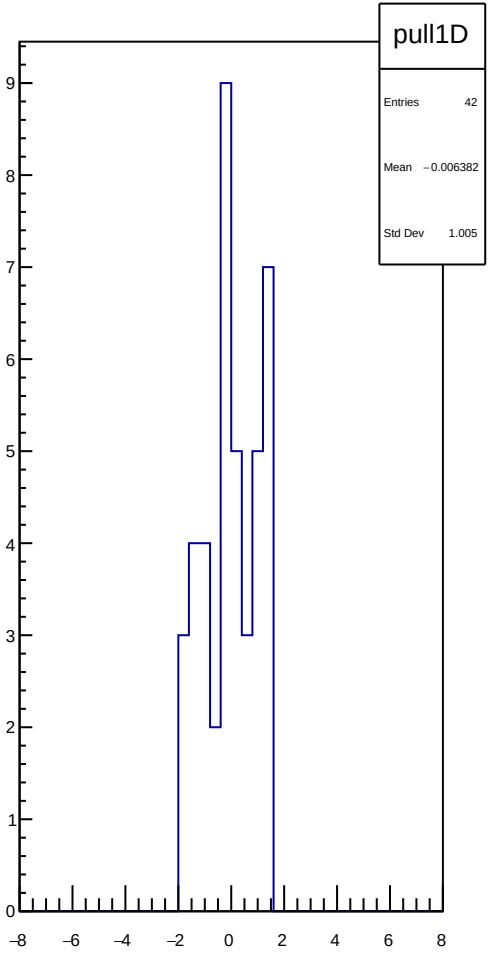

pull1D
Entries 42
Mean 0.008609
Std Dev 0.9533

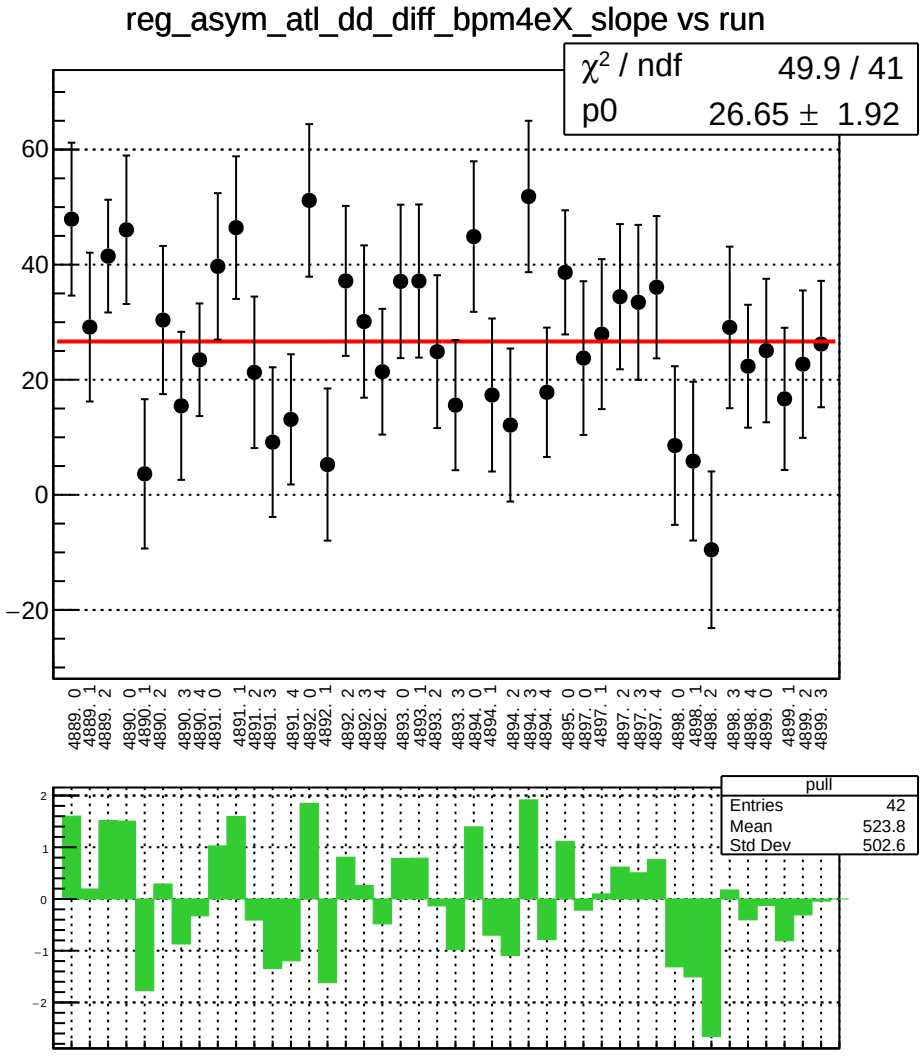

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 36.34 / 41
p0 −8.621 ± 2.662
pull
Entries 42
Mean 37.94
Std Dev 23.43

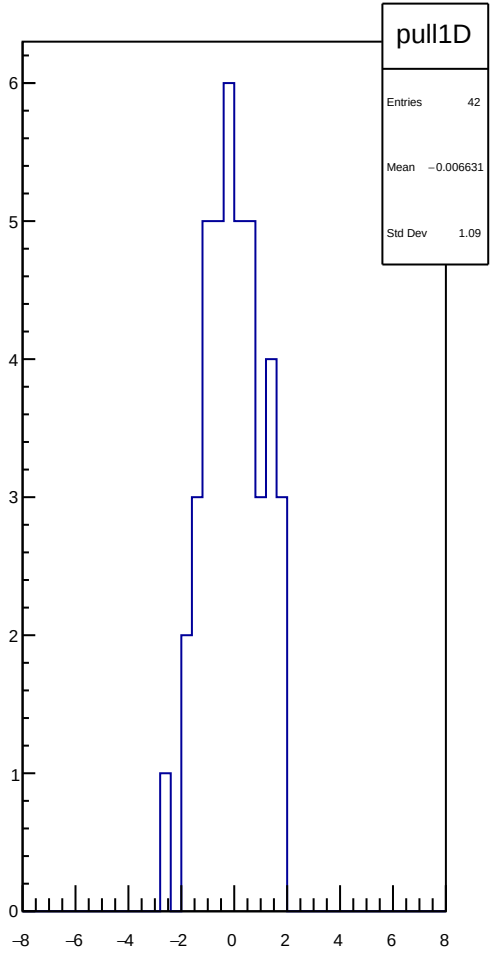

pull1D
Entries 42
Mean 0.02114
Std Dev 0.93

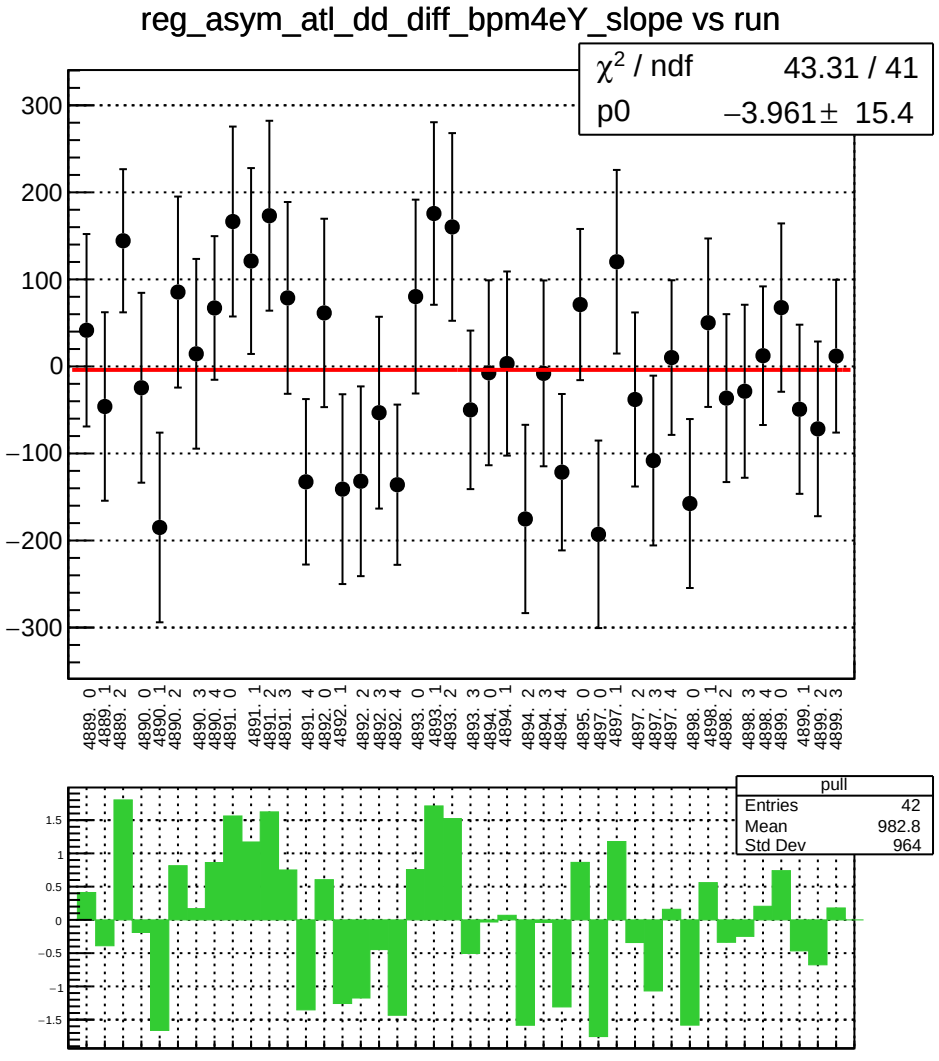

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.82 / 41
p0 −12.73 ± 10.21
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 331.7
Std Dev 312.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.007414
Std Dev 0.9362
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

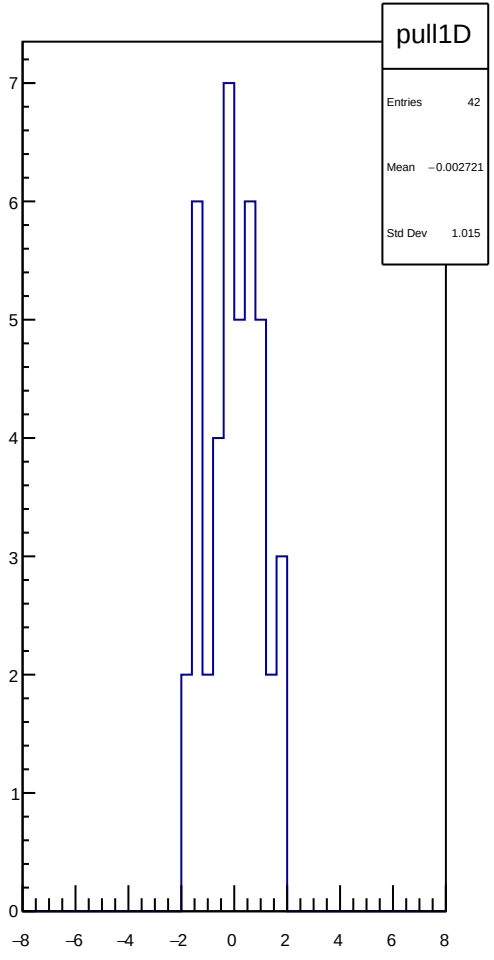

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.41 / 41
p0 1.733 ± 13.85
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −401.3
Std Dev 421.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

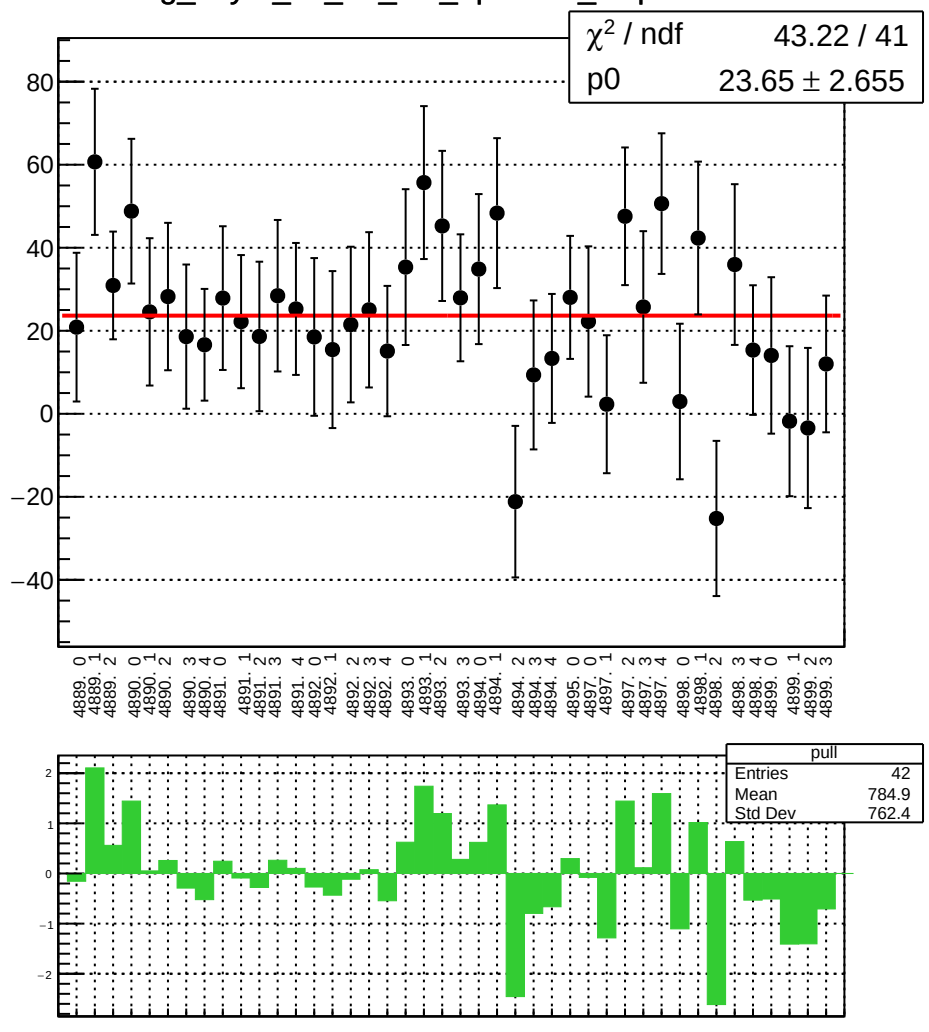

pull1D
Entries 42
Mean −0.006382
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

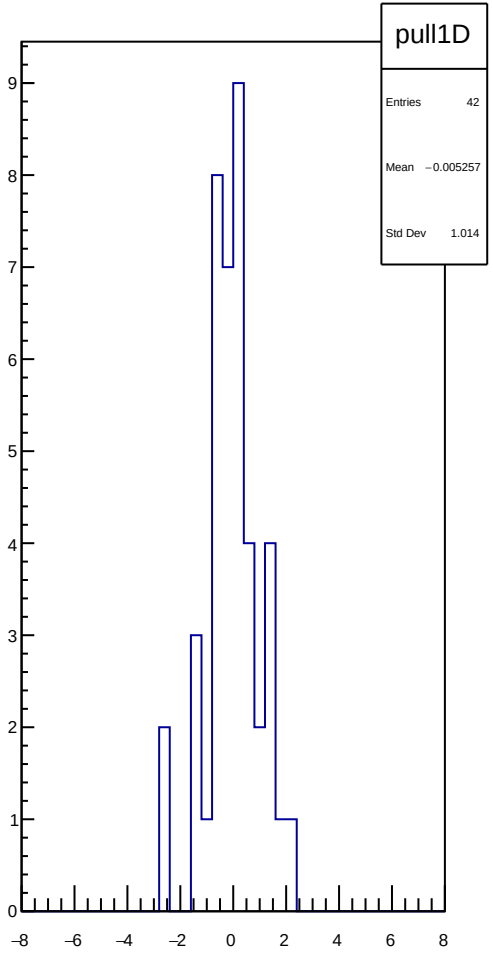

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.9 / 41
p0 26.65 ± 1.92
pull
Entries 42
Mean 523.8
Std Dev 502.6

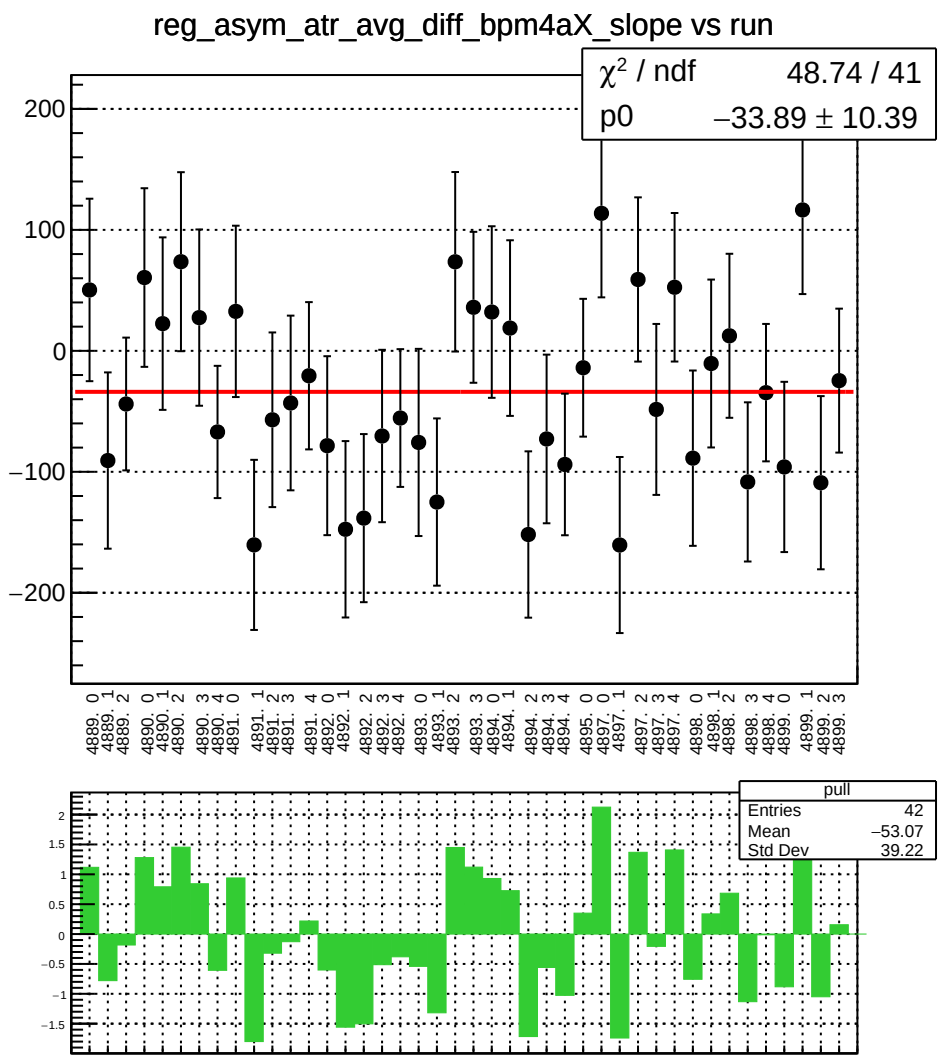

pull1D
Entries 42
Mean −0.006631
Std Dev 1.09

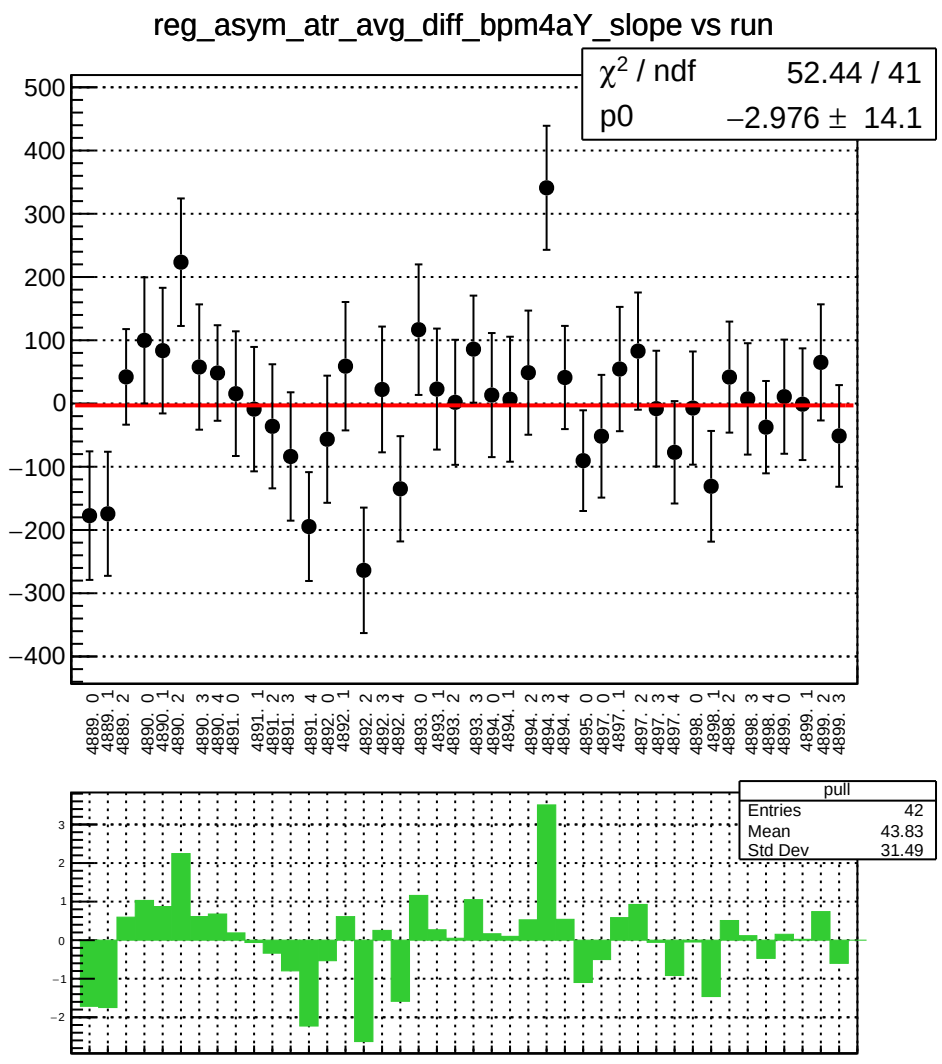

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.31 / 41
p0 −3.961± 15.4
pull
Entries 42
Mean 982.8
Std Dev 964

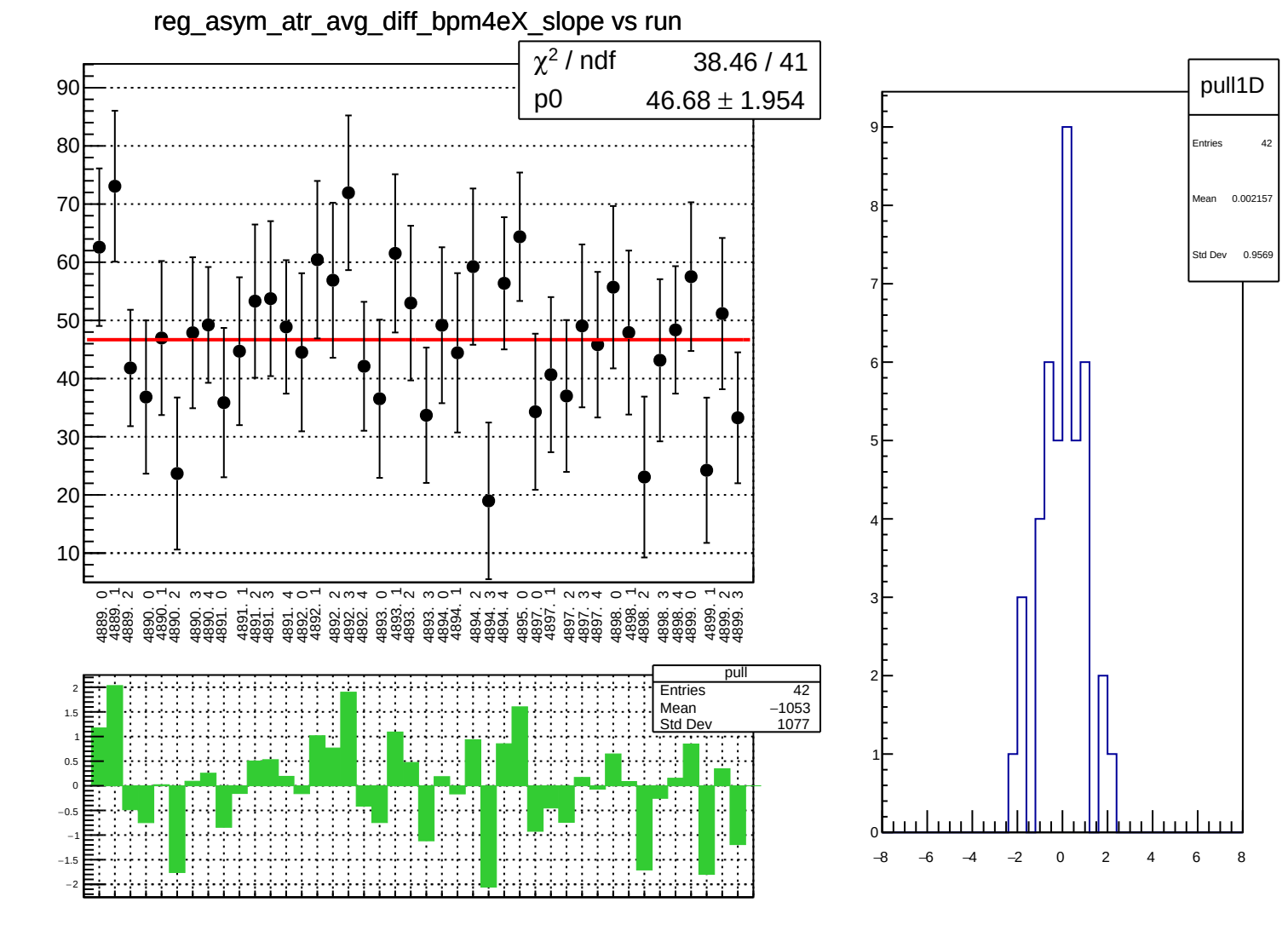

pull1D
Entries 42
Mean −0.002721
Std Dev 1.015

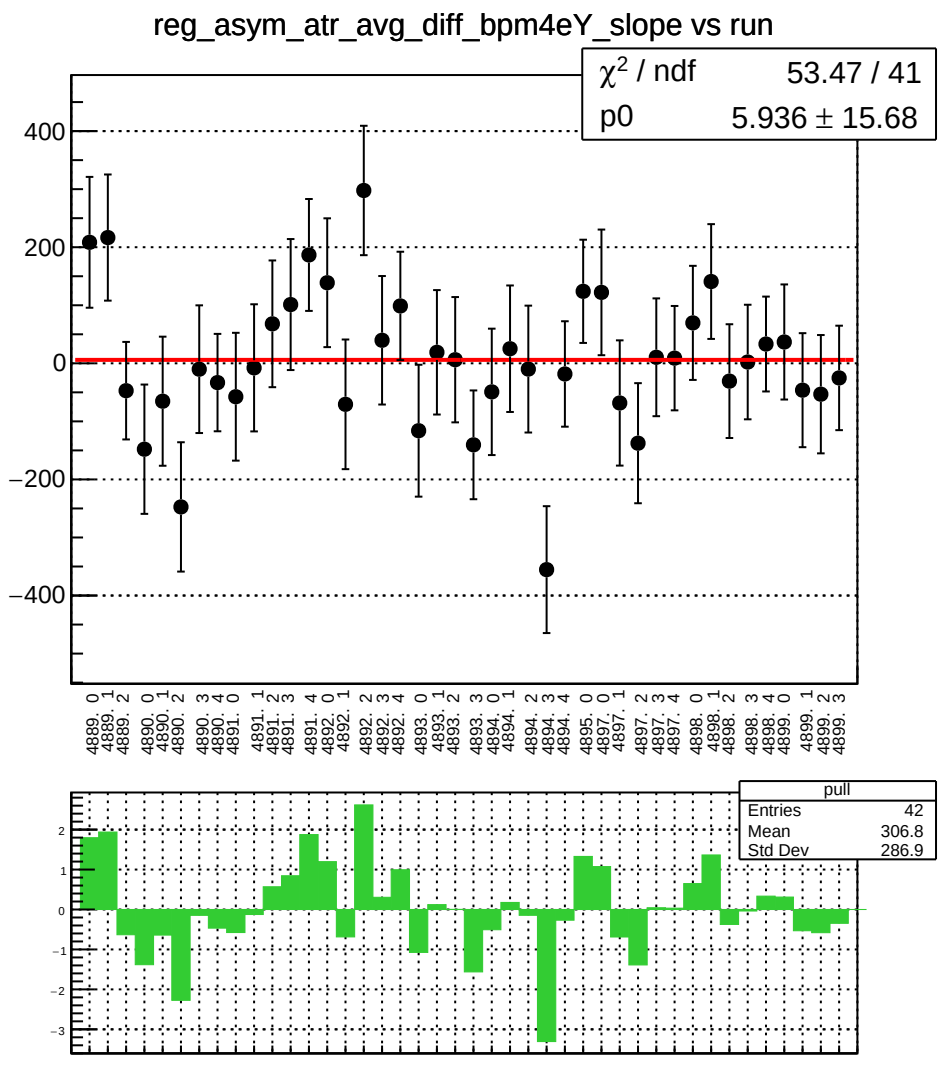

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ^2 / ndf 43.22 / 41
p0 23.65 ± 2.655
pull
Entries 42
Mean 784.9
Std Dev 762.4

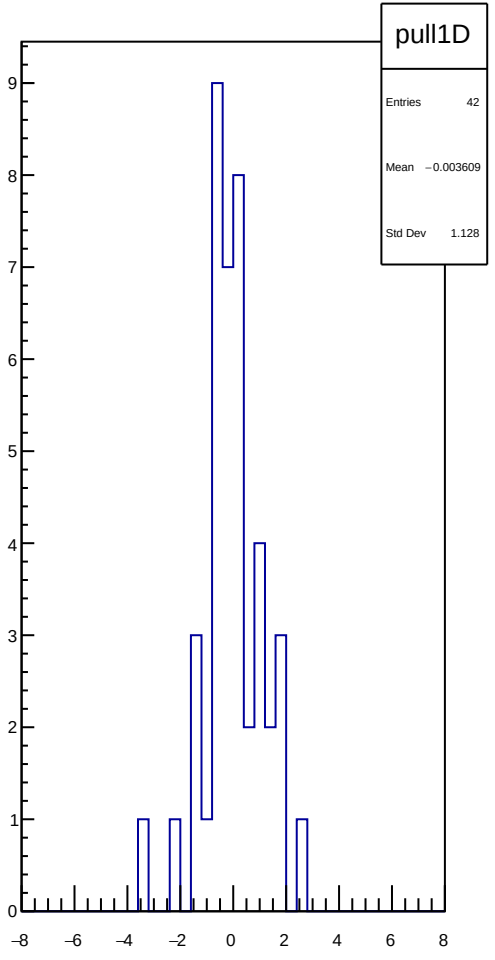

pull1D
Entries 42
Mean −0.005257
Std Dev 1.014

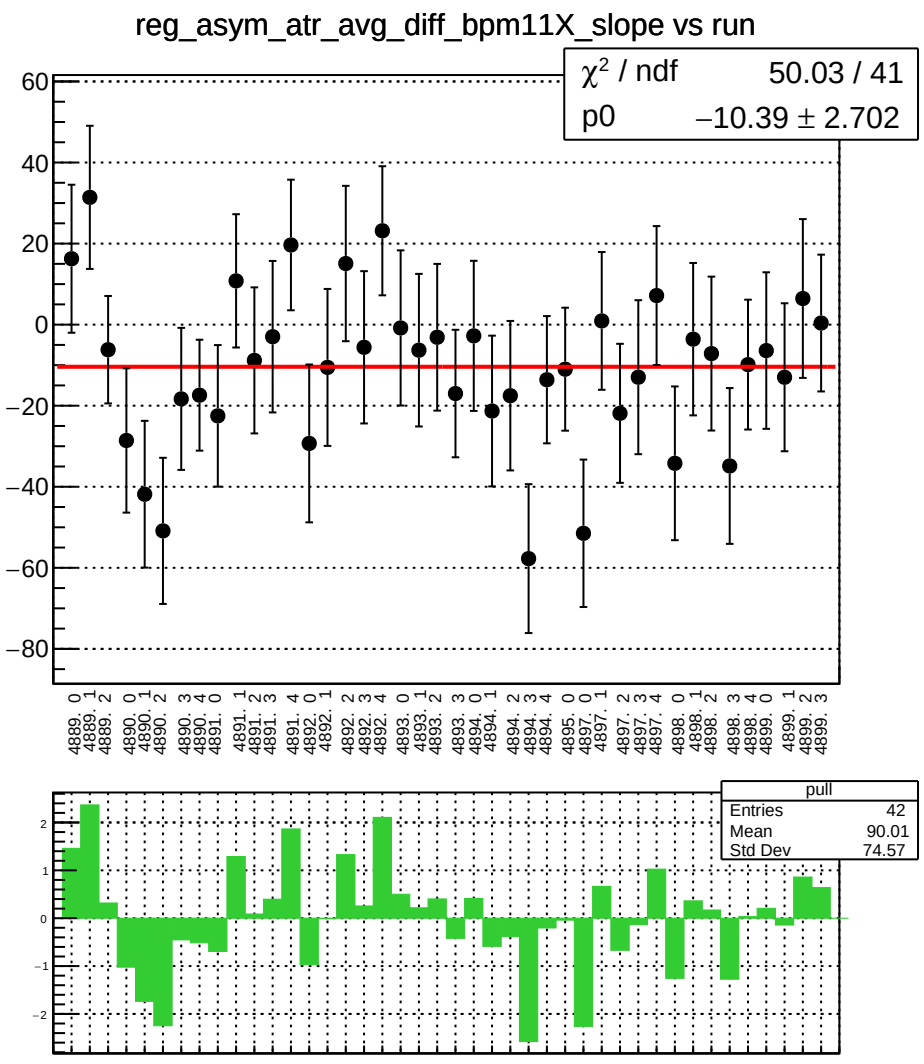

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.74 / 41
p0 −33.89 ± 10.39
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −53.07
Std Dev 39.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.003498
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

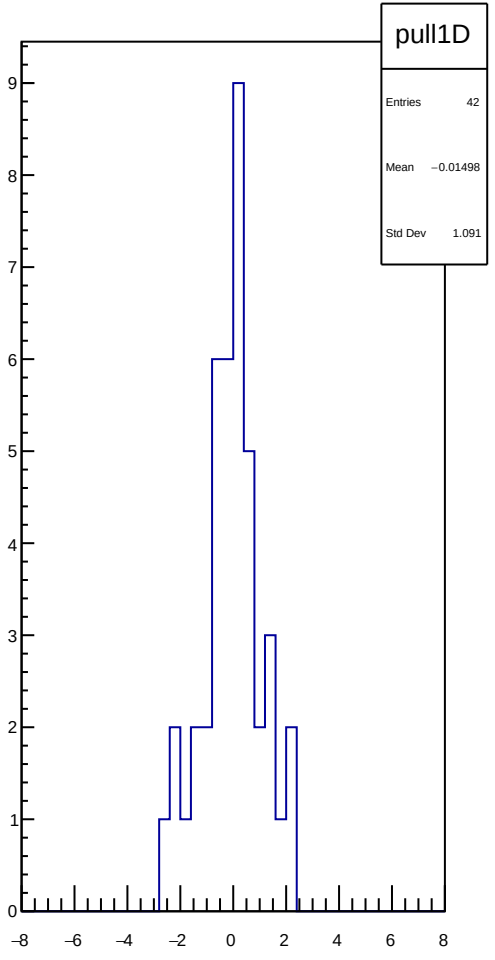

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.44 / 41
p0 −2.976 ± 14.1
500
400
300
200
100
0
−100
−200
−300
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 43.83
Std Dev 31.49
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.0172
Std Dev 1.117
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

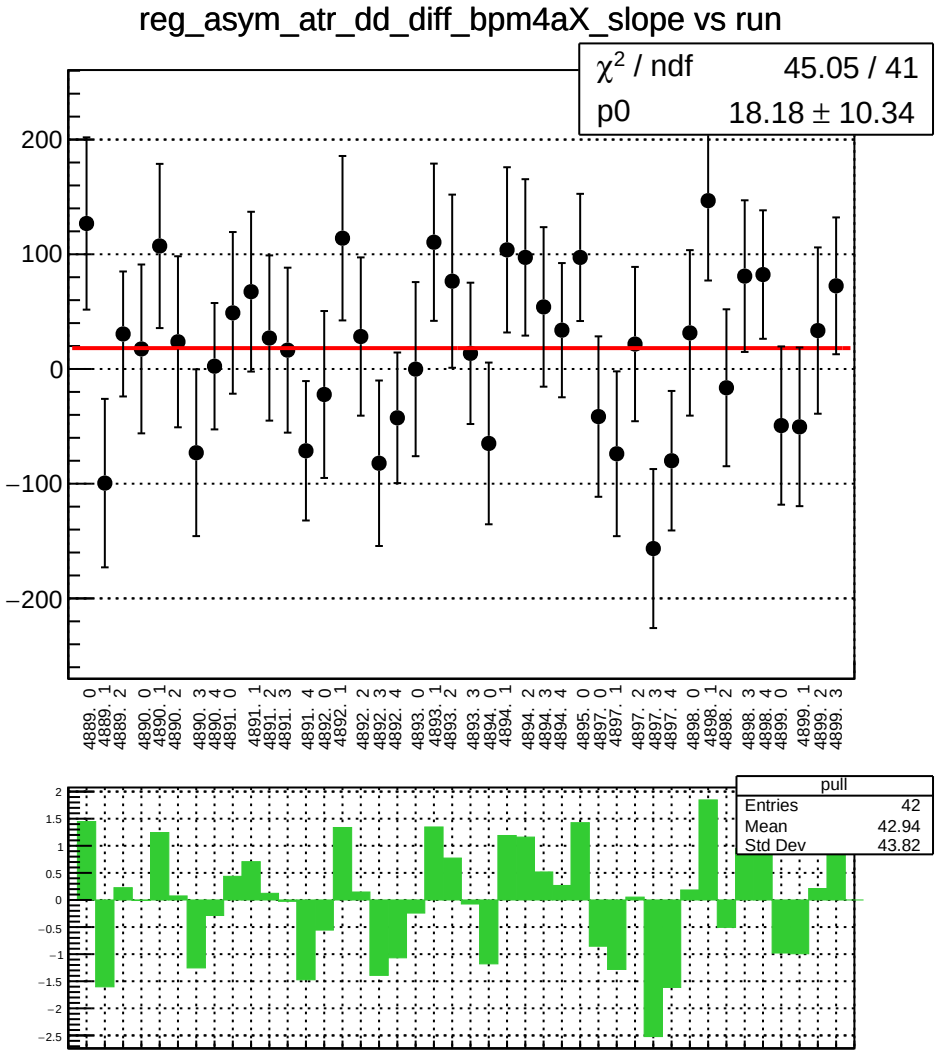

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.46 / 41
p0 46.68 ± 1.954
pull
Entries 42
Mean −1053
Std Dev 1077
pull1D
Entries 42
Mean 0.002157
Std Dev 0.9569

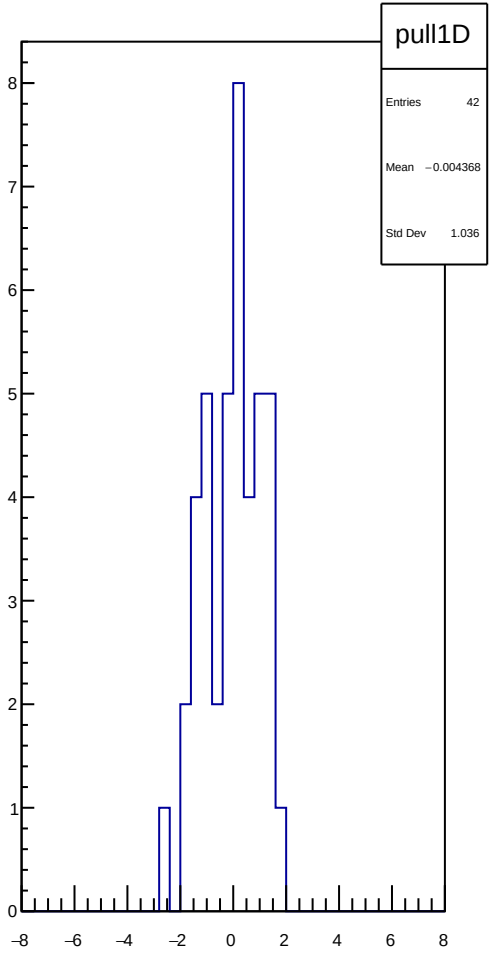

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.47 / 41
p0 5.936 ± 15.68
400
200
0
−200
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 306.8
Std Dev 286.9
2
1
0
−1
−2
−3

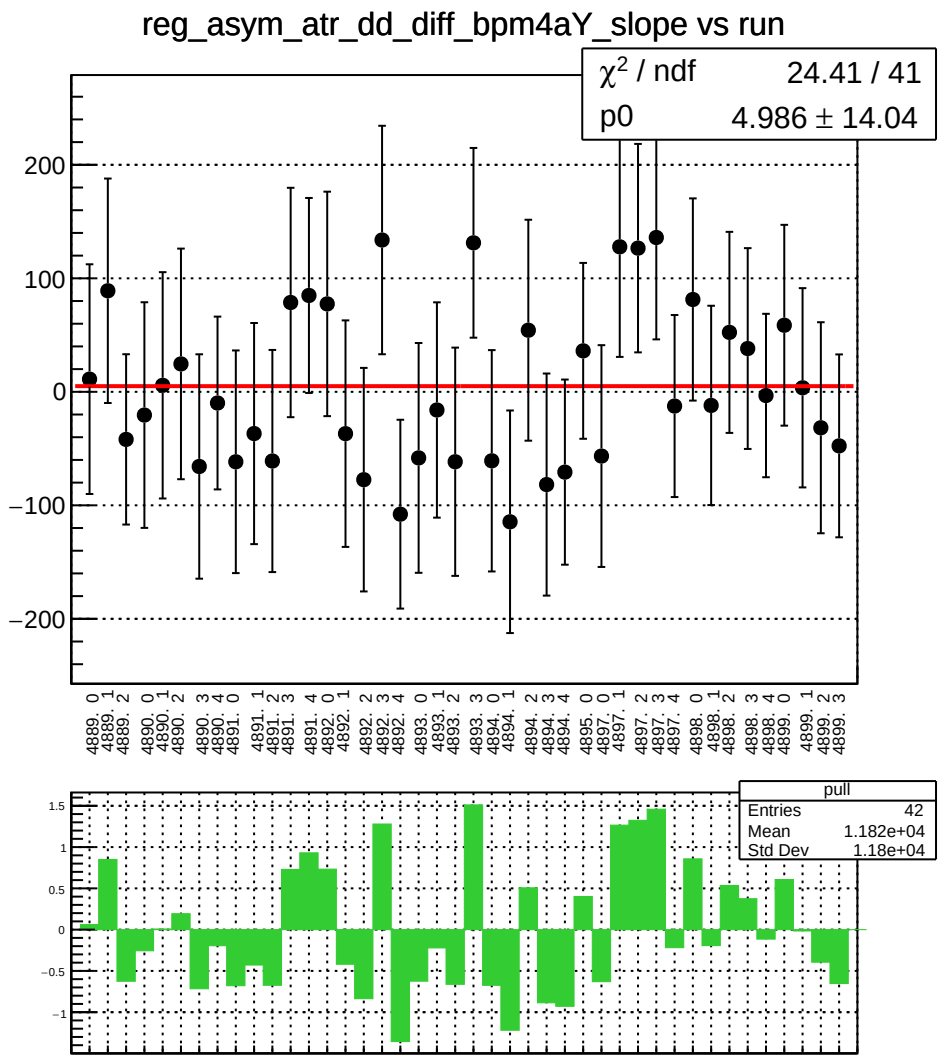

pull1D
Entries 42
Mean −0.003609
Std Dev 1.128
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

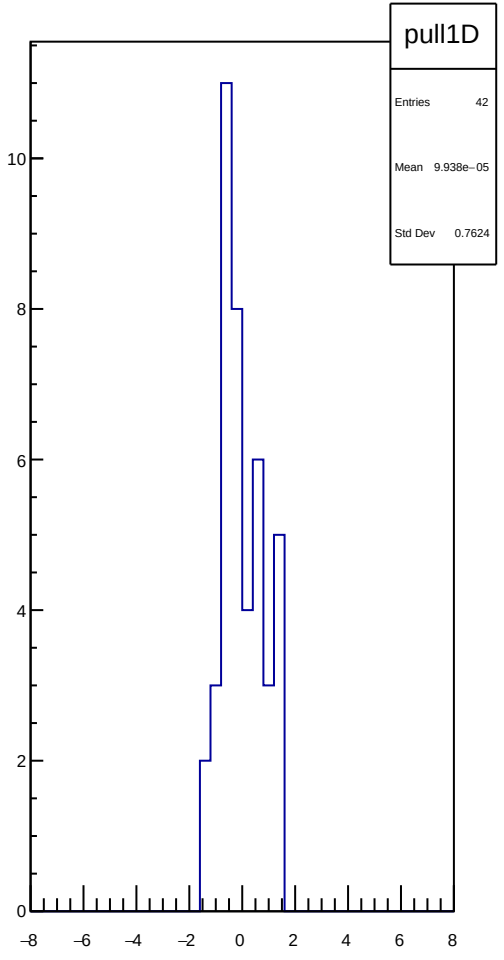

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 50.03 / 41
p0 −10.39 ± 2.702
pull
Entries 42
Mean 90.01
Std Dev 74.57

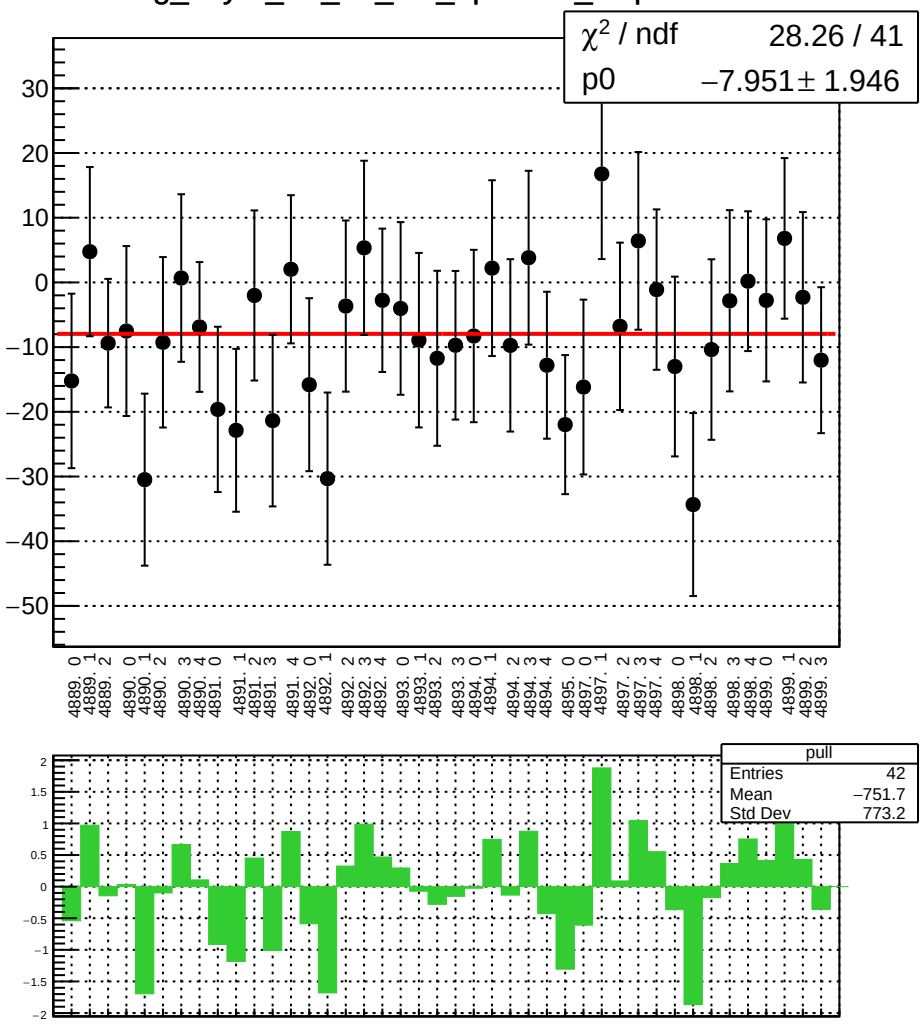

pull1D
Entries 42
Mean −0.01498
Std Dev 1.091

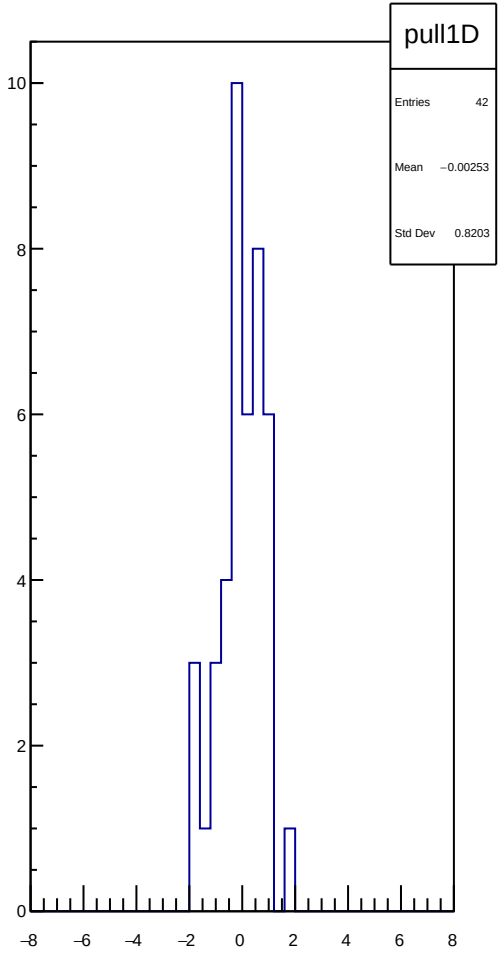

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.05 / 41
p0 18.18 ± 10.34
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 42.94
Std Dev 43.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

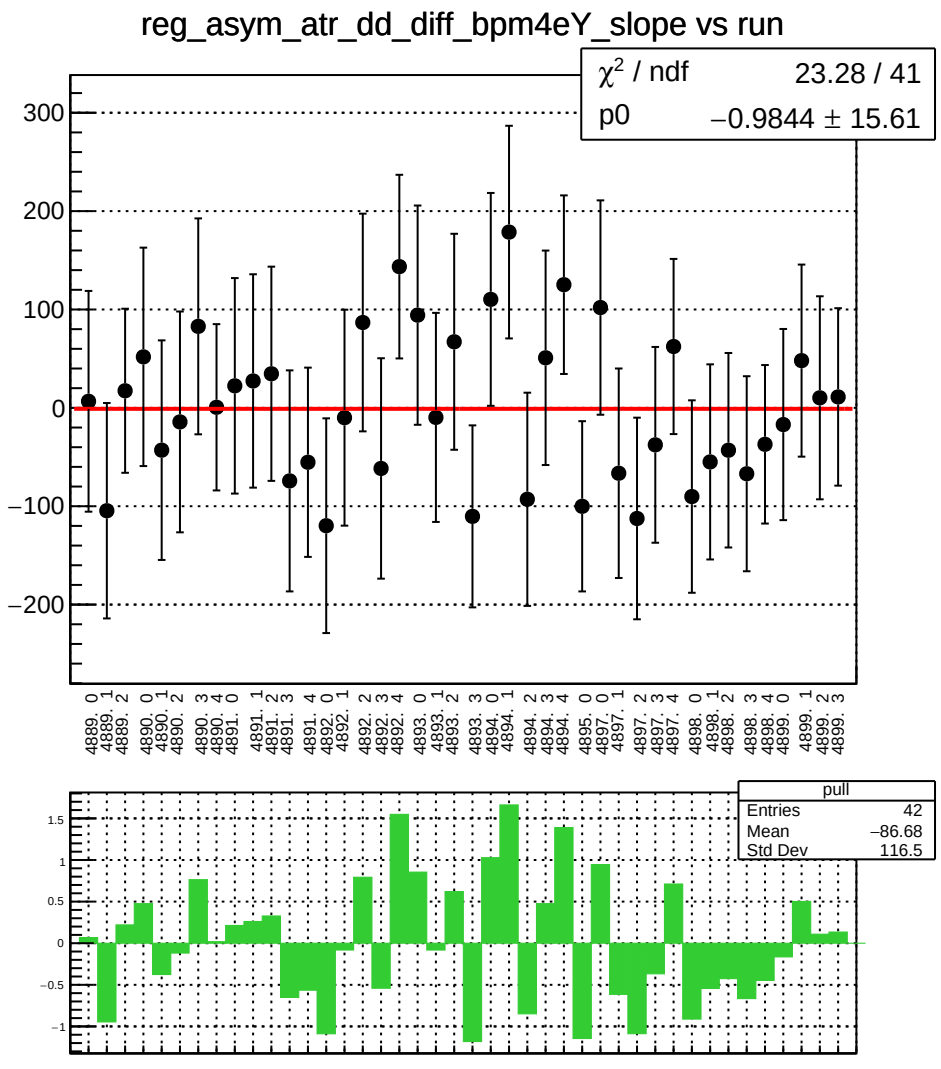

pull1D
Entries 42
Mean −0.004368
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

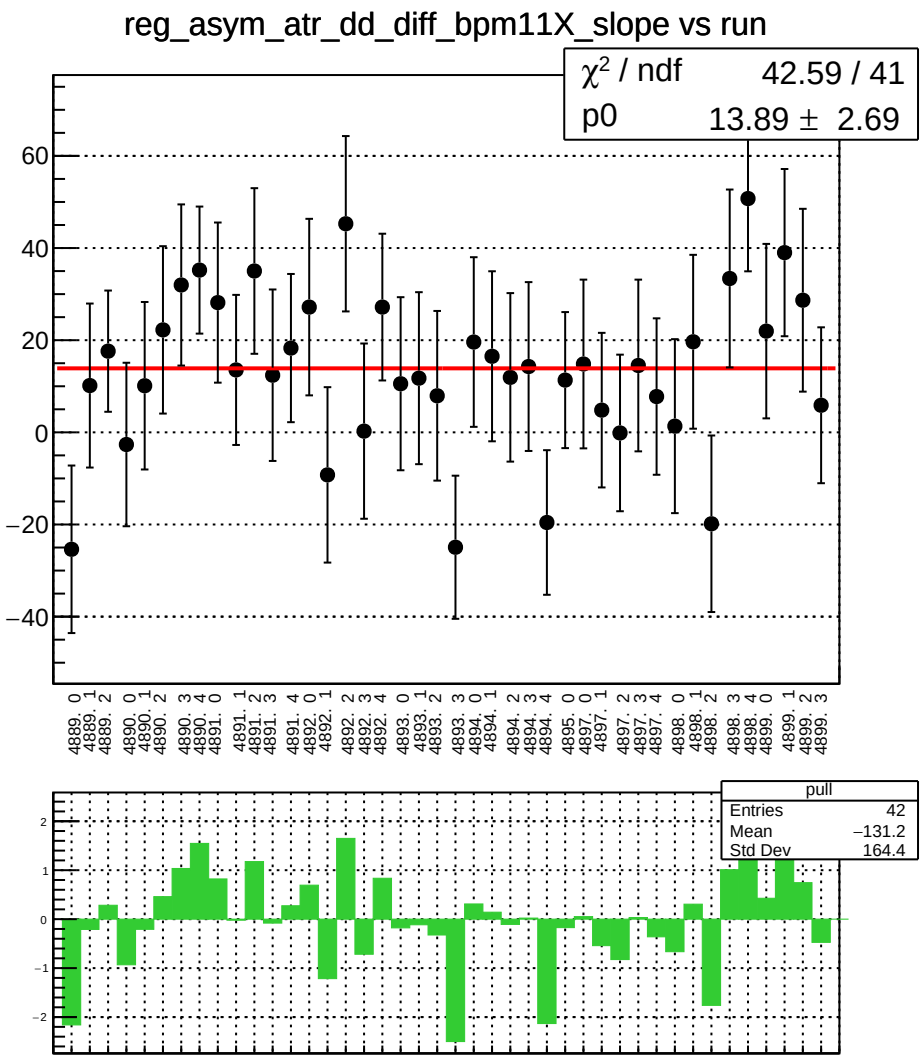

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.41 / 41
p0 4.986 ± 14.04
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1.182e+04
Std Dev 1.18e+04
1.5
1
0.5
0
−0.5
−1

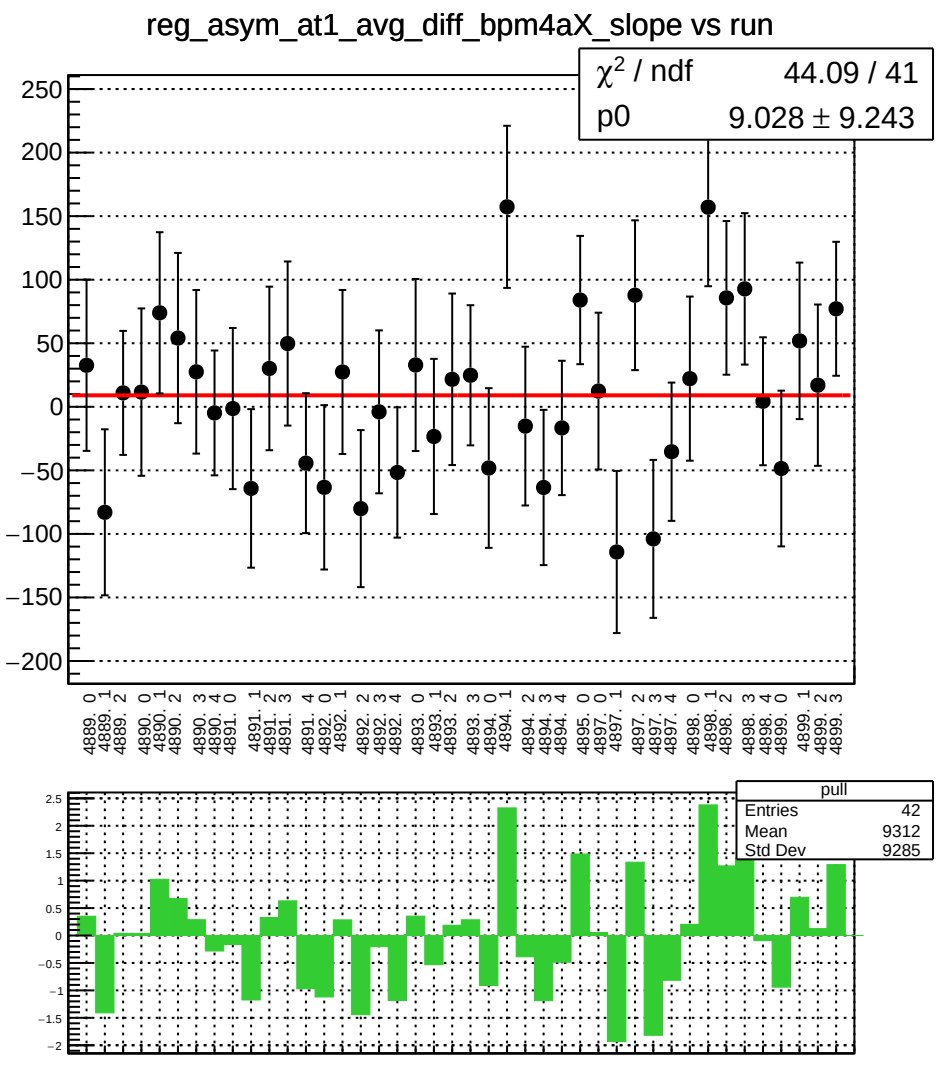

pull1D
Entries 42
Mean 9.938e−05
Std Dev 0.7624
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

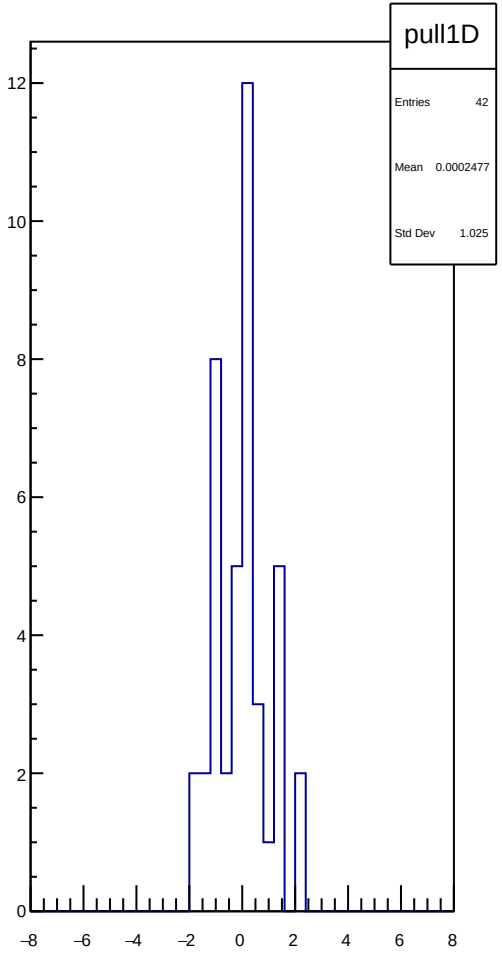

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.26 / 41
p0 −7.951 ± 1.946
pull
Entries 42
Mean −751.7
Std Dev 773.2

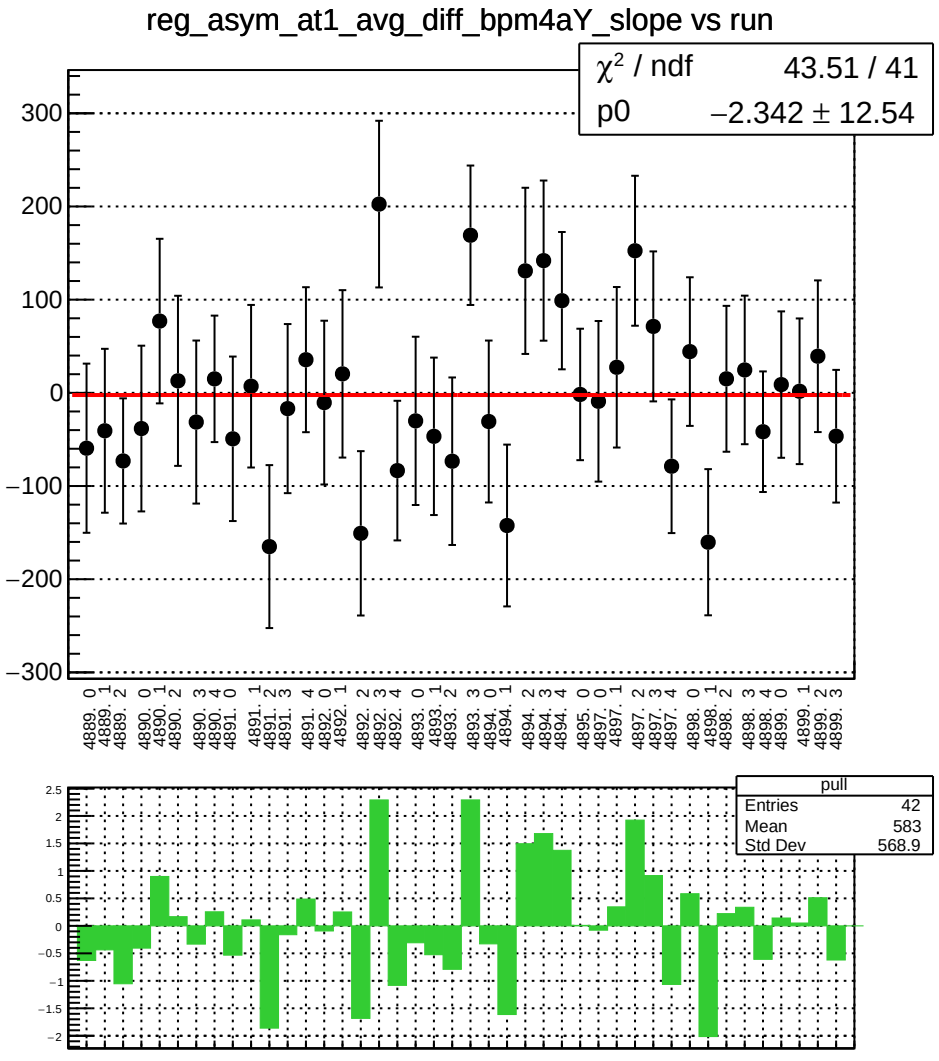

pull1D
Entries 42
Mean −0.00253
Std Dev 0.8203

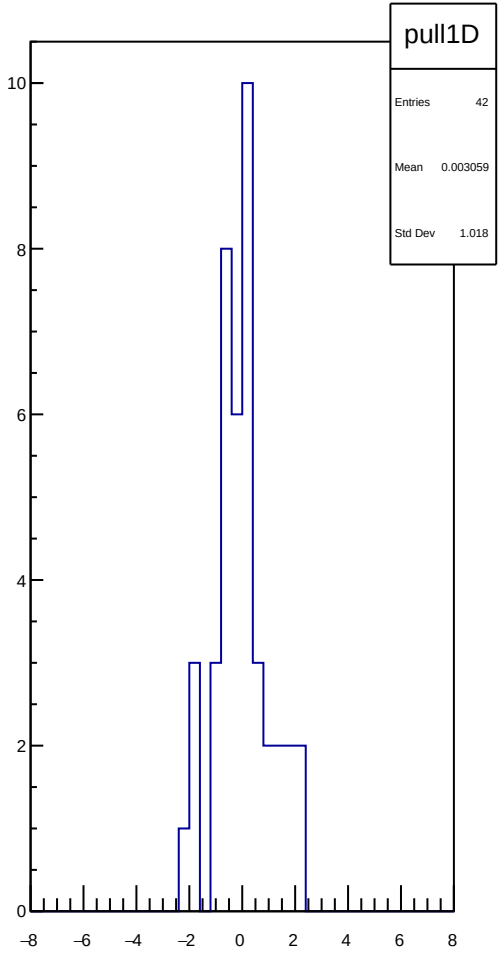

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.28 / 41
p0 −0.9844 ± 15.61
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −86.68
Std Dev 116.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean 0.006353
Std Dev 0.7444
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

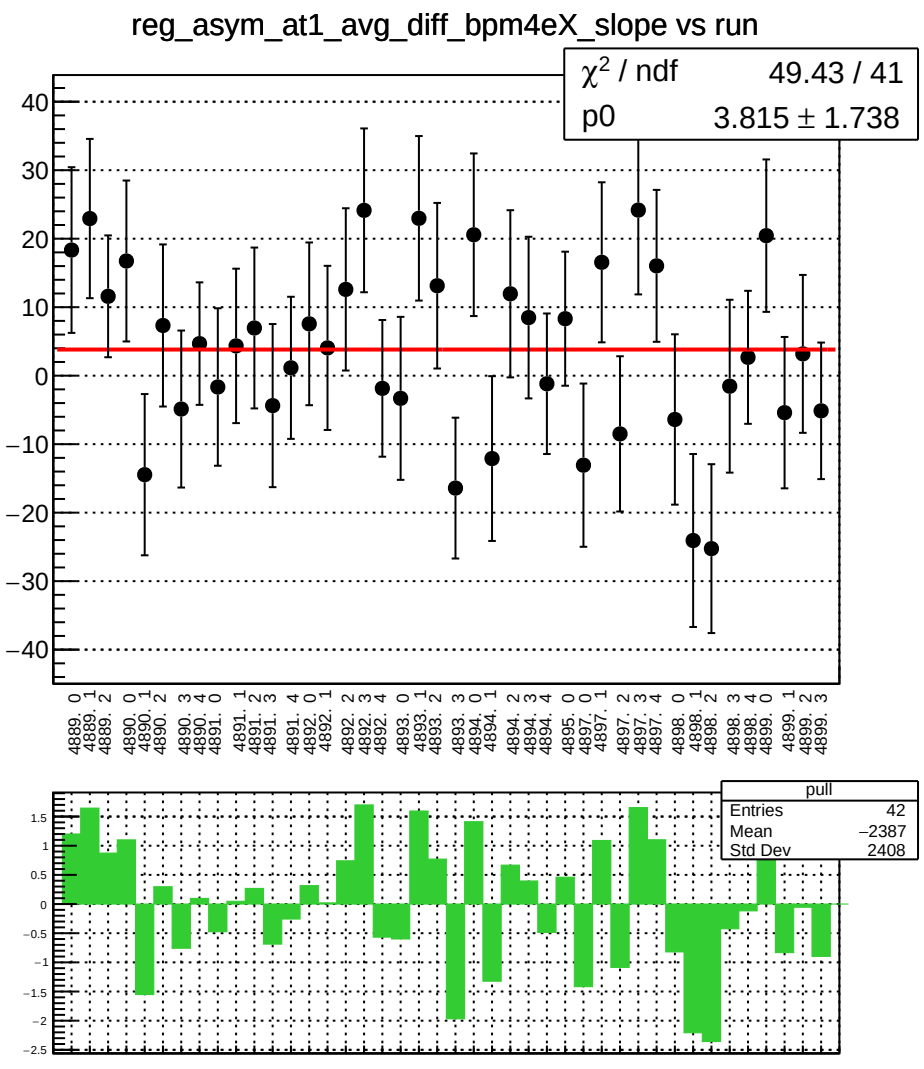

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 42.59 / 41
p0 13.89 ± 2.69
60
40
20
0
−20
−40
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −131.2
Std Dev 164.4
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.003685
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

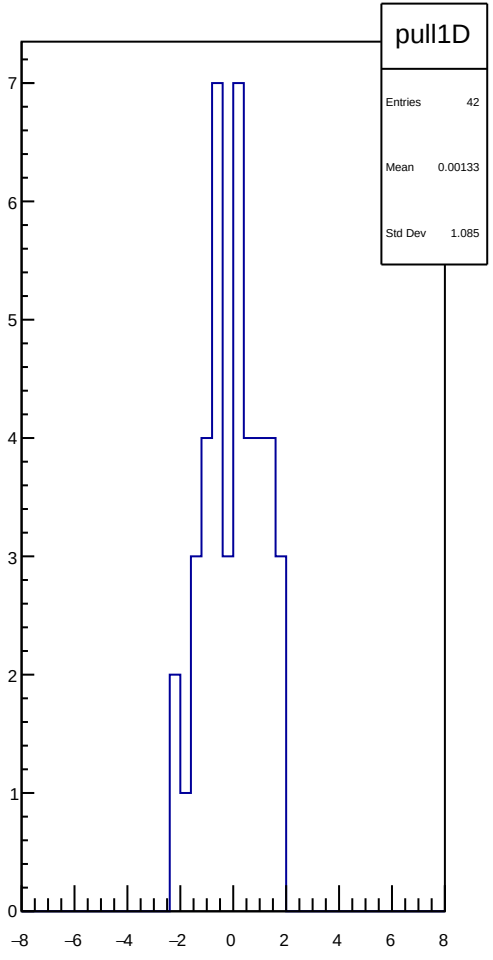

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 44.09 / 41
p0 9.028 ± 9.243
pull
Entries 42
Mean 9312
Std Dev 9285

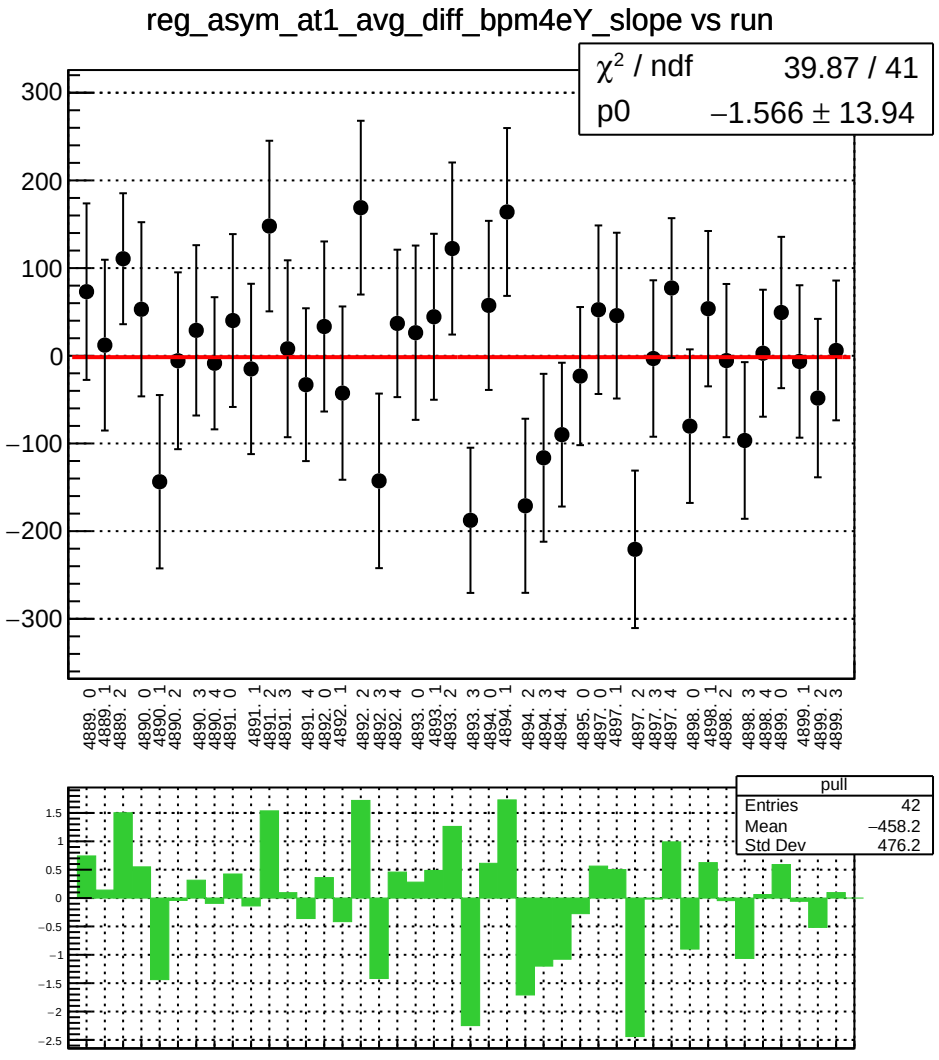

pull1D
Entries 42
Mean 0.0002477
Std Dev 1.025

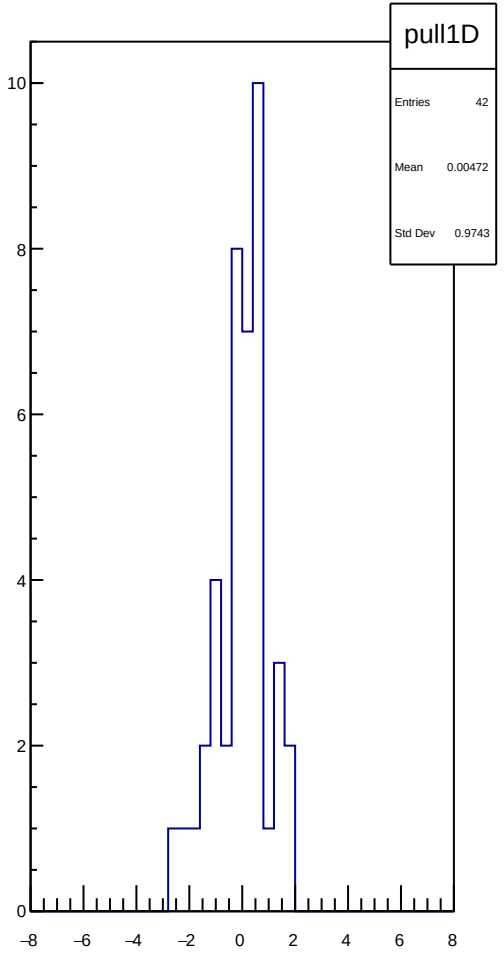

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.51 / 41
p0 −2.342 ± 12.54
pull
Entries 42
Mean 583
Std Dev 568.9

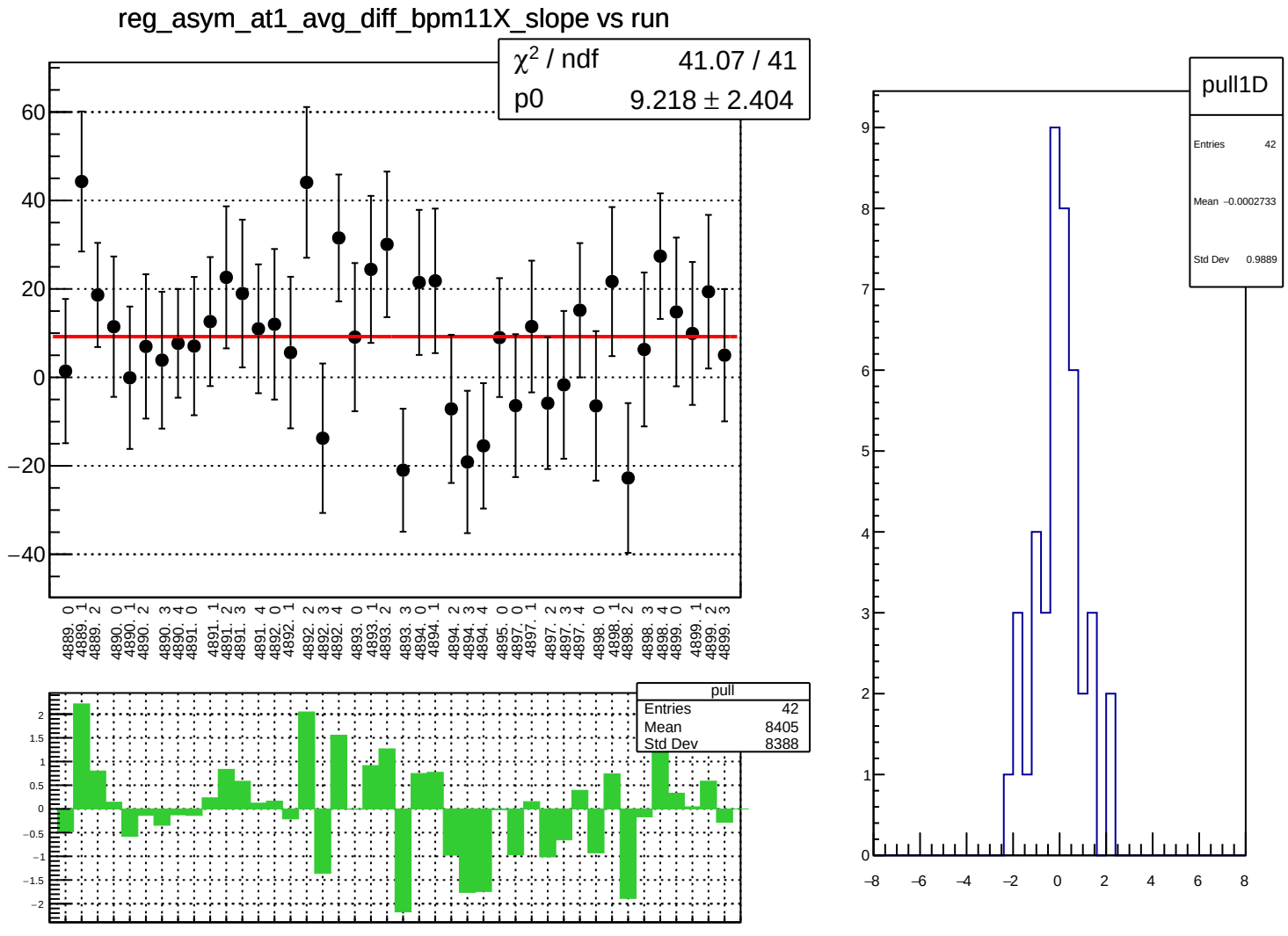

pull1D
Entries 42
Mean 0.003059
Std Dev 1.018

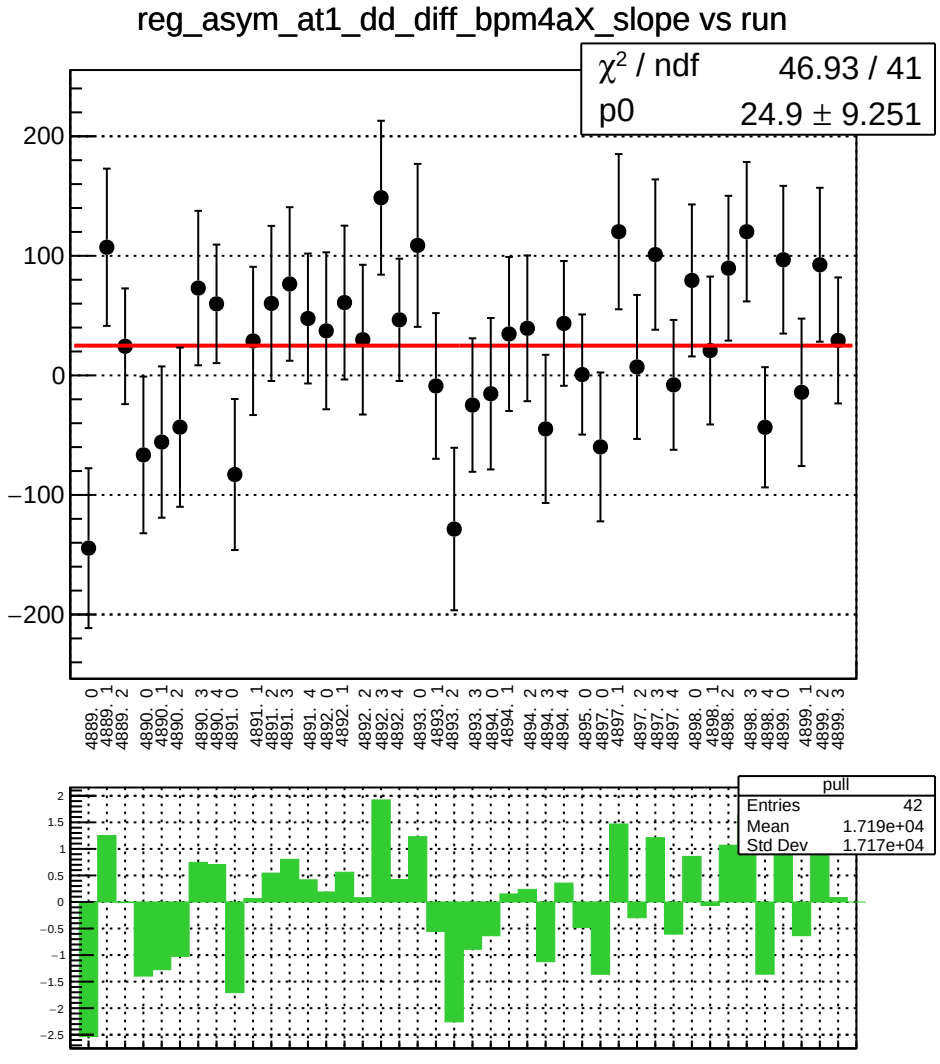

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.43 / 41
p0 3.815 ± 1.738
pull
Entries 42
Mean −2387
Std Dev 2408

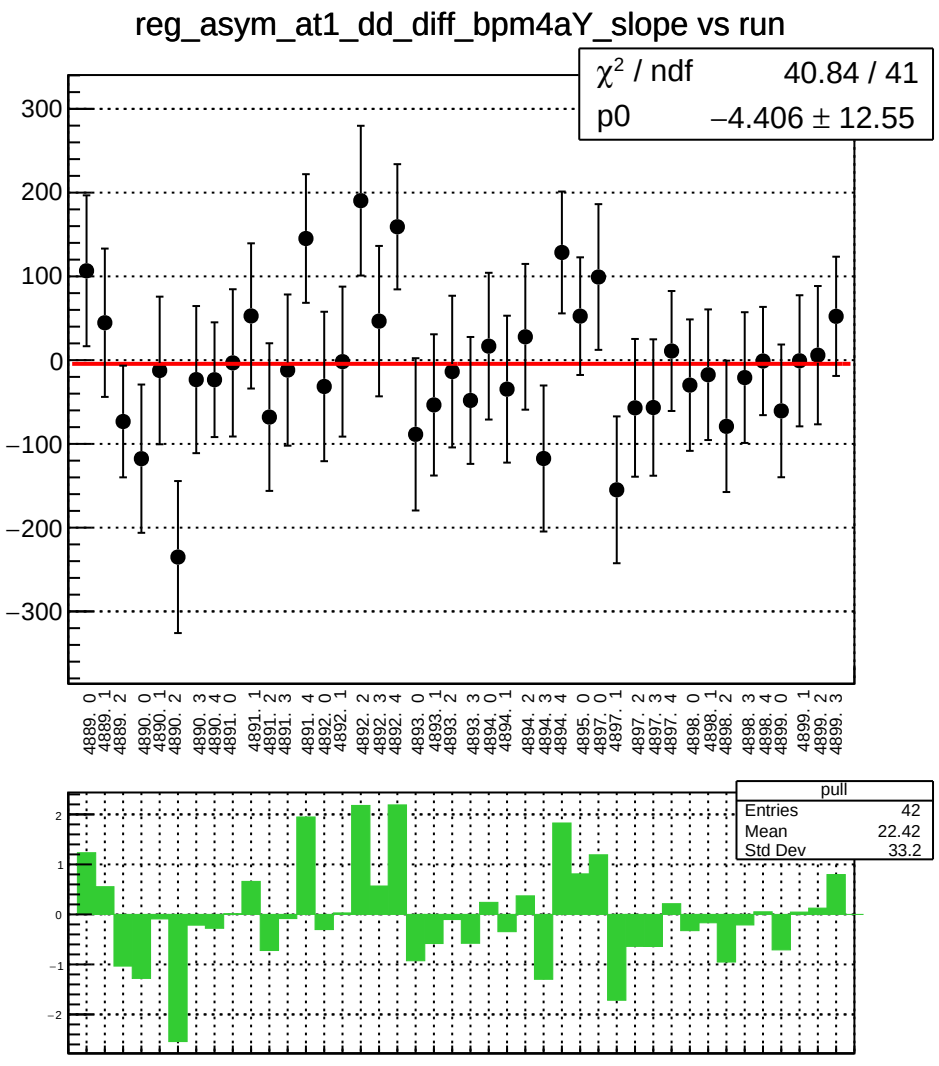

pull1D
Entries 42
Mean 0.00133
Std Dev 1.085

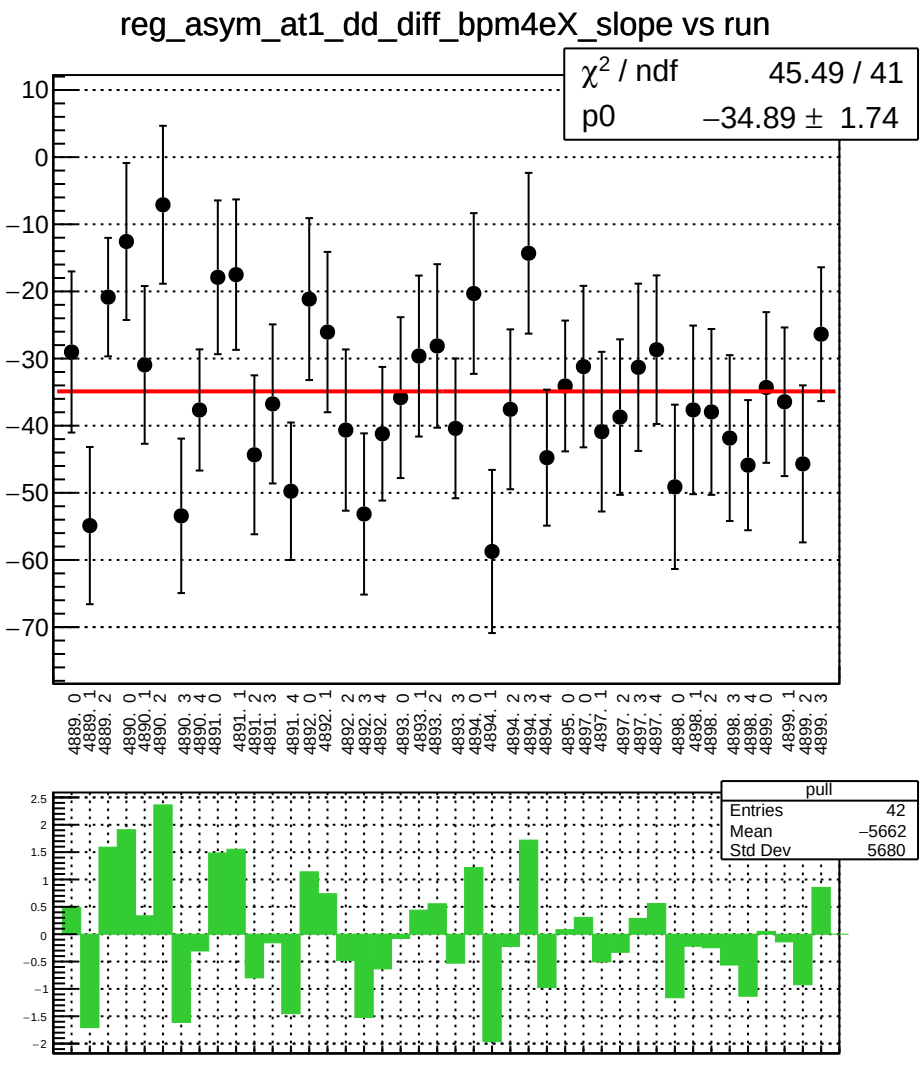

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.87 / 41
p0 −1.566 ± 13.94
pull
Entries 42
Mean −458.2
Std Dev 476.2

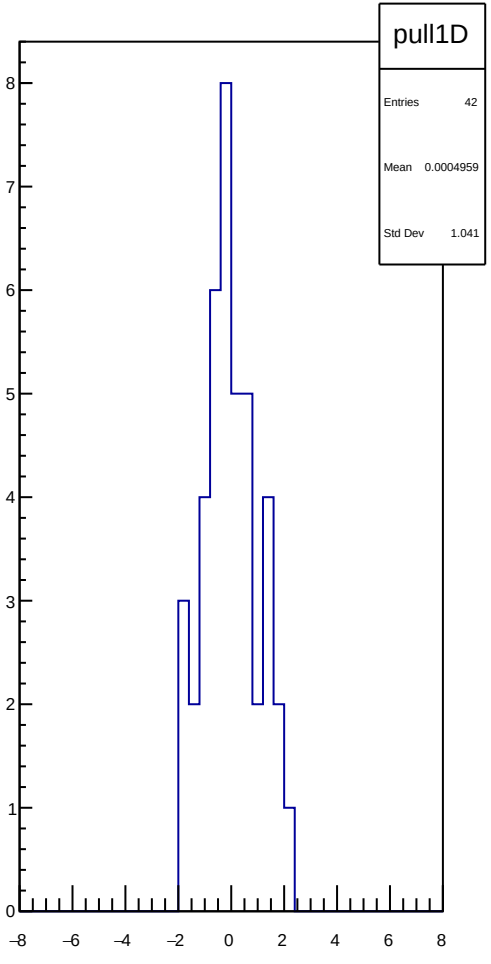

pull1D
Entries 42
Mean 0.00472
Std Dev 0.9743

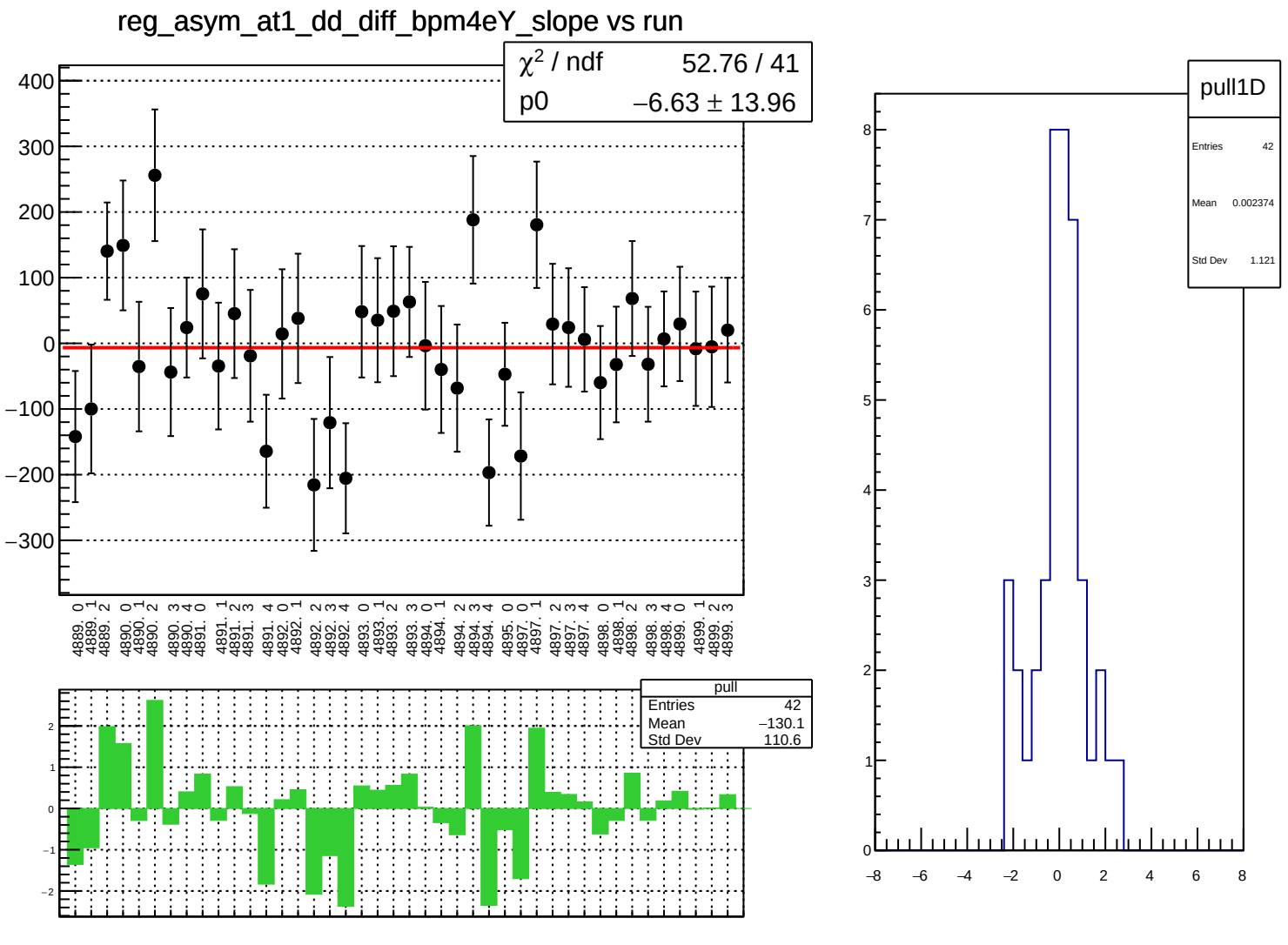

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 41.07 / 41
p0 9.218 ± 2.404
pull
Entries 42
Mean 8405
Std Dev 8388
pull1D
Entries 42
Mean −0.0002733
Std Dev 0.9889

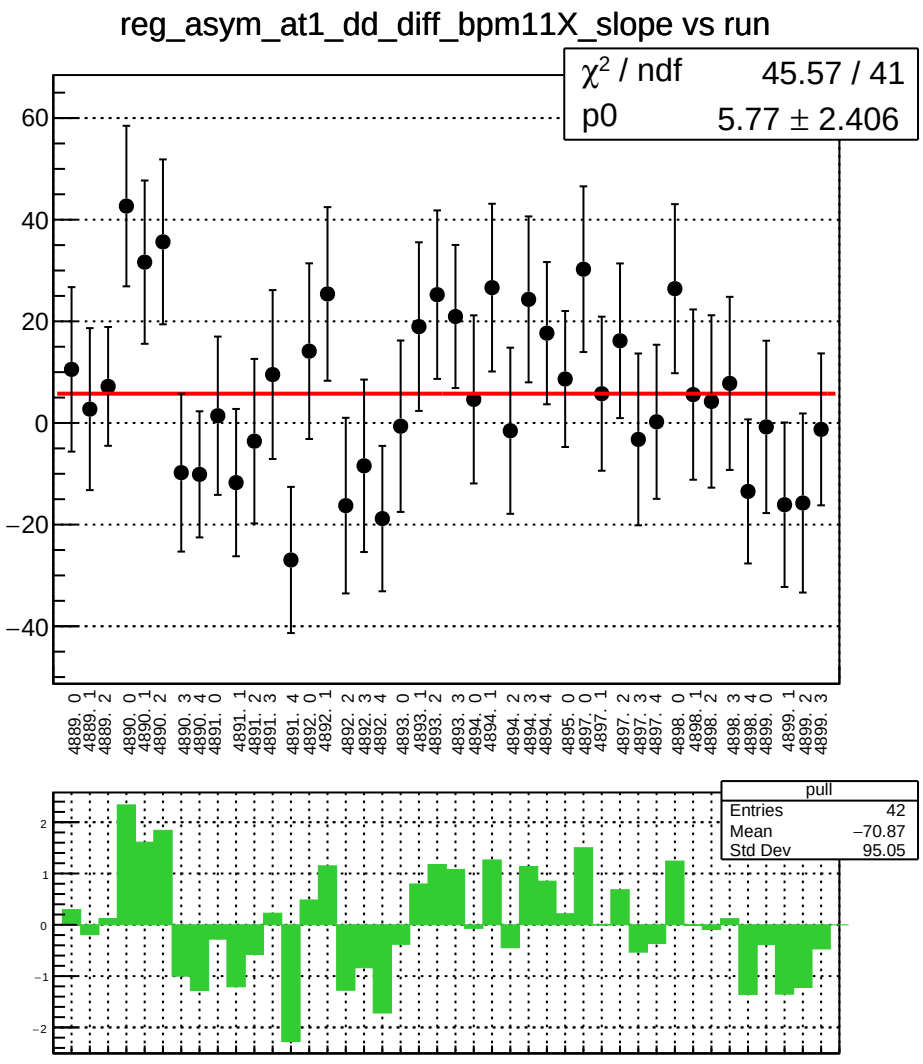

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.93 / 41
p0 24.9 ± 9.251
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 1.719e+04
Std Dev 1.717e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean 0.0001575
Std Dev 1.057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

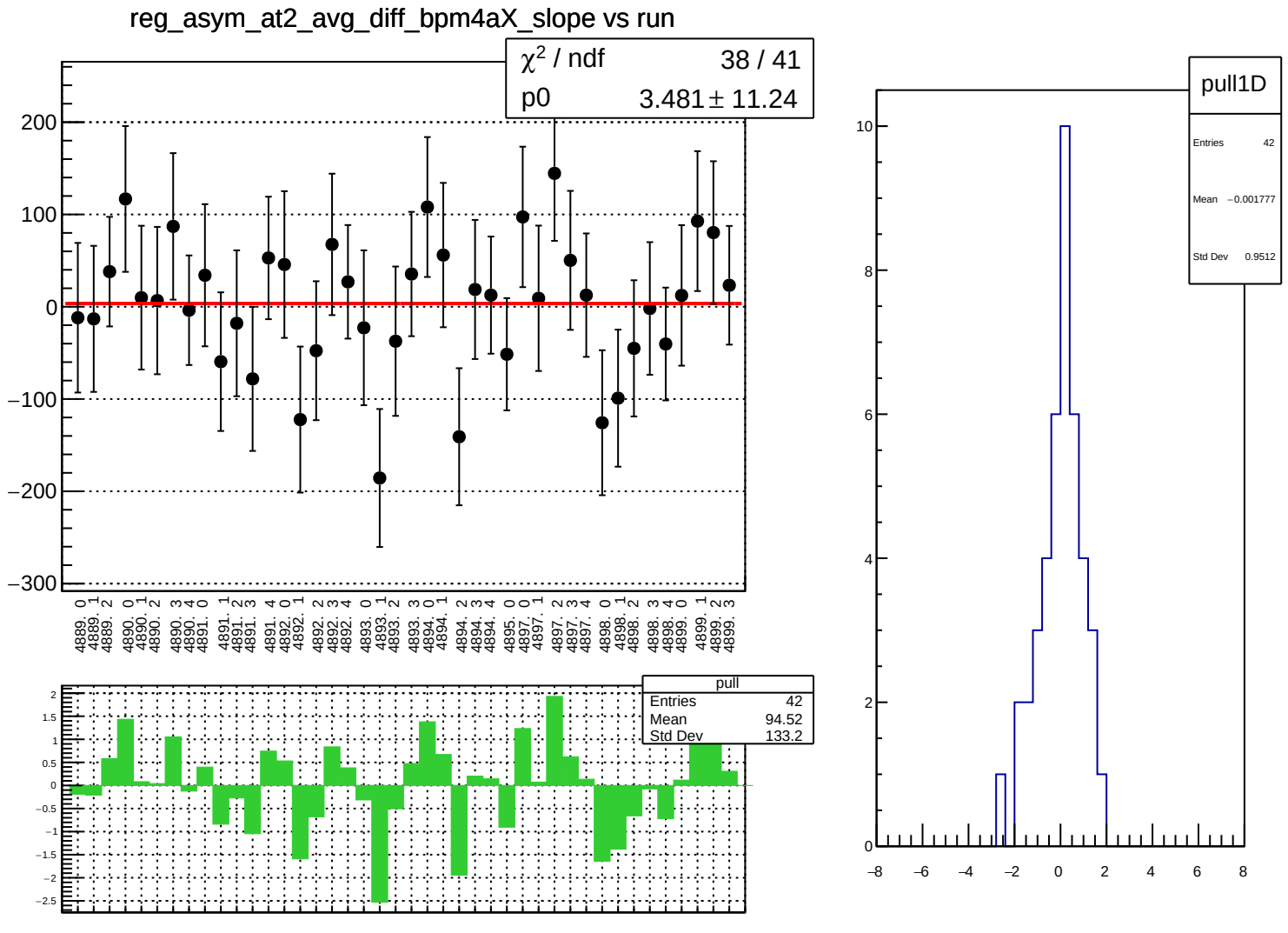

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.84 / 41
p0 −4.406 ± 12.55
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 22.42
Std Dev 33.2
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01617
Std Dev 0.986
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

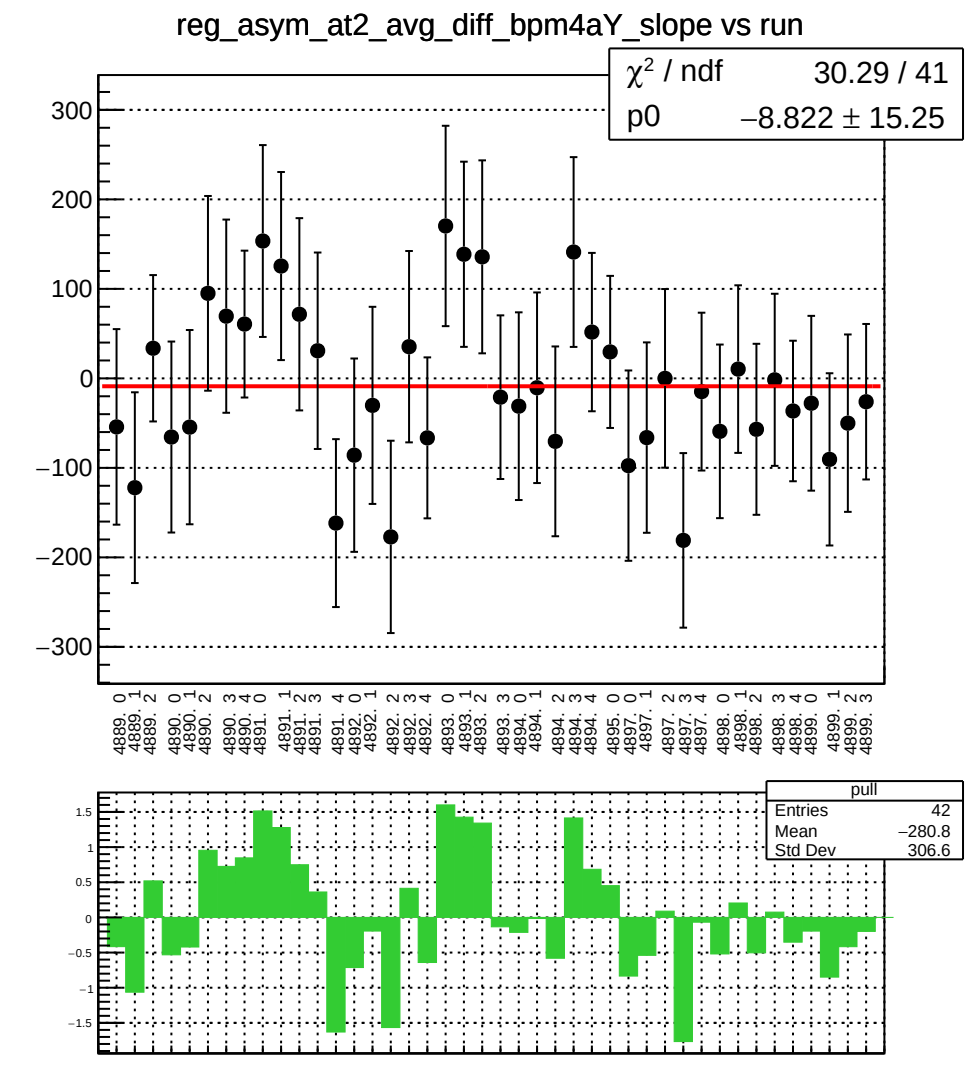

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.49 / 41
p0 −34.89 ± 1.74
pull
Entries 42
Mean −5662
Std Dev 5680

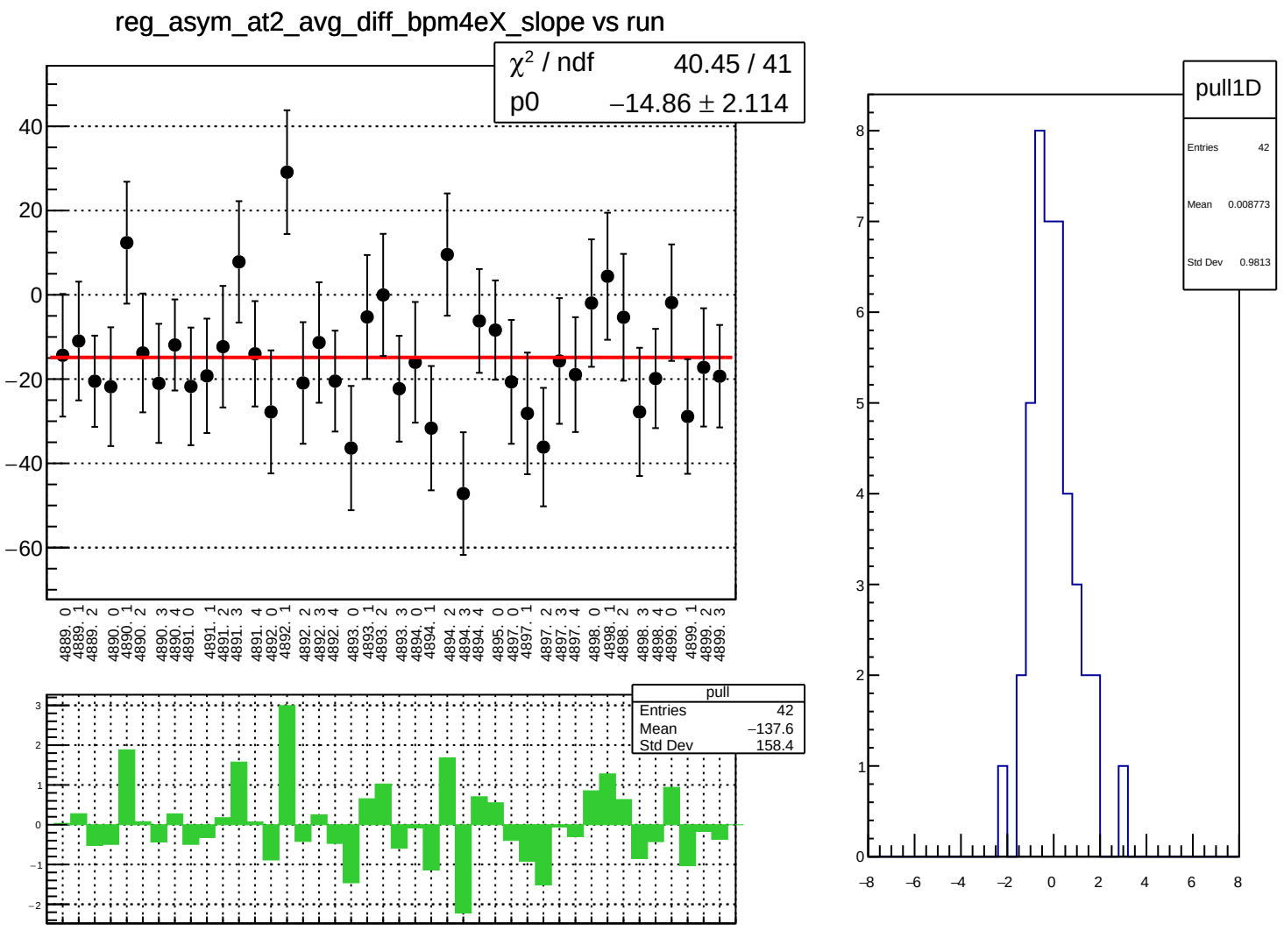

pull1D
Entries 42
Mean 0.0004959
Std Dev 1.041

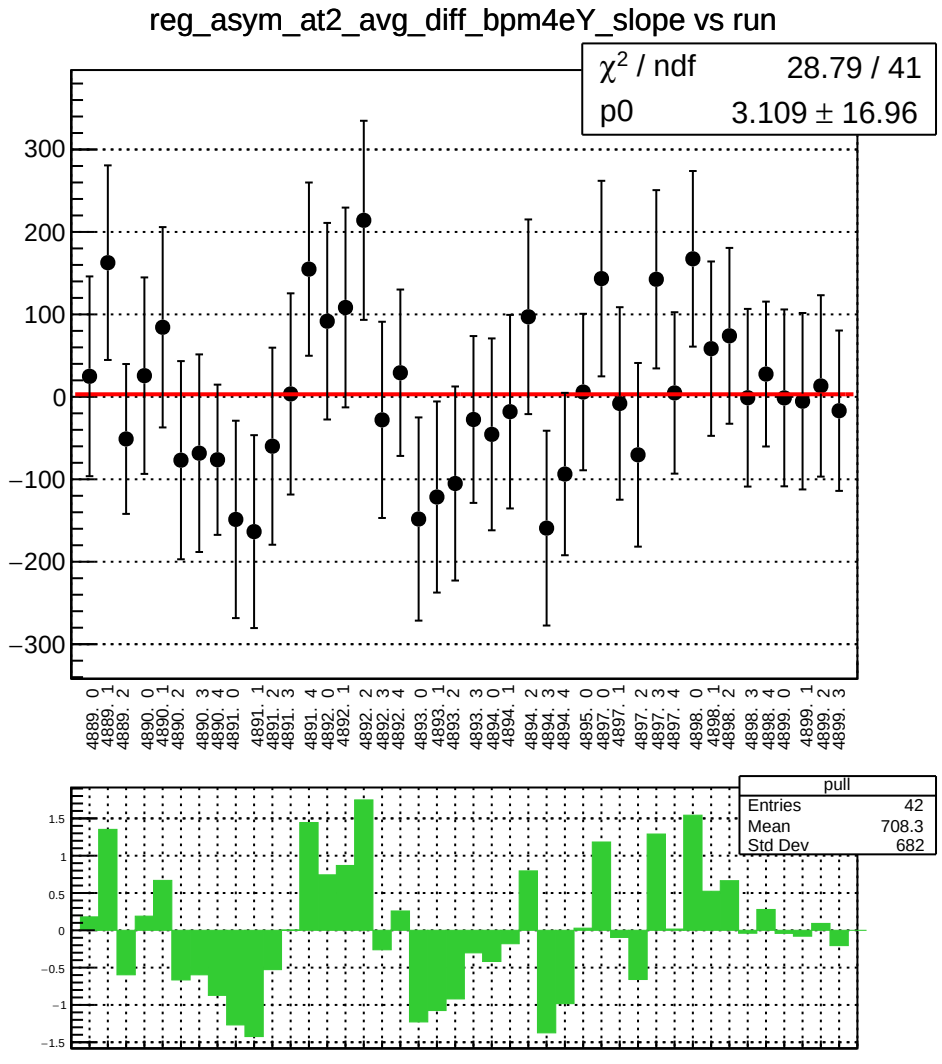

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.76 / 41
p0 −6.63 ± 13.96
400
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −130.1
Std Dev 110.6
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.002374
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

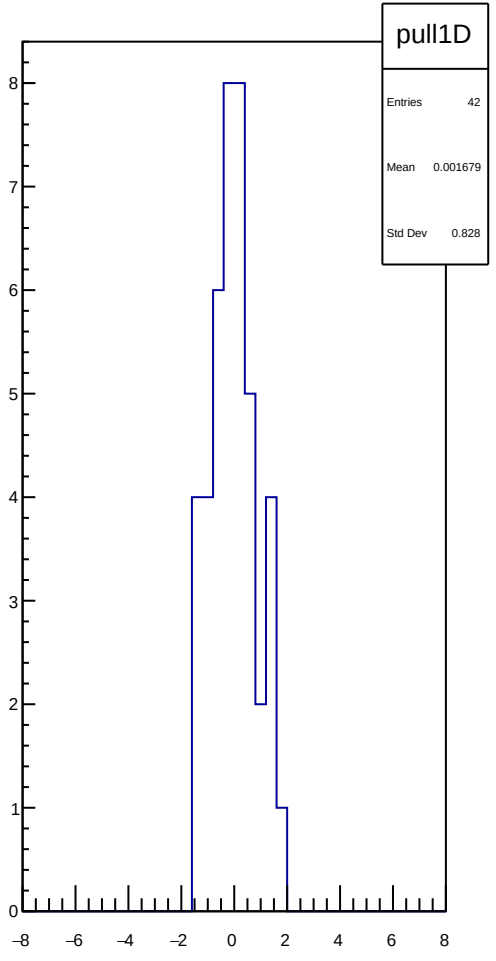

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 45.57 / 41
p0 5.77 ± 2.406
60
40
20
0
−20
−40
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −70.87
Std Dev 95.05
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.01912
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

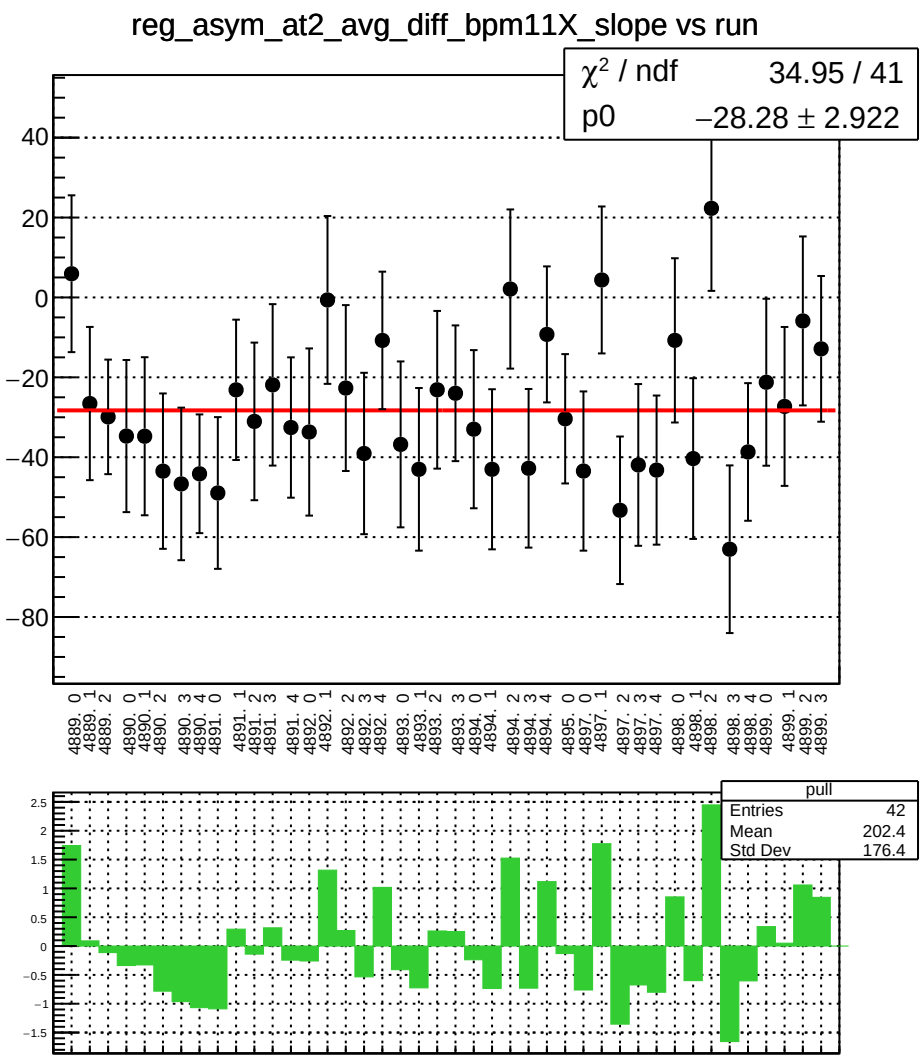

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 38 / 41
p0 3.481 ± 11.24
pull
Entries 42
Mean 94.52
Std Dev 133.2
pull1D
Entries 42
Mean −0.001777
Std Dev 0.9512

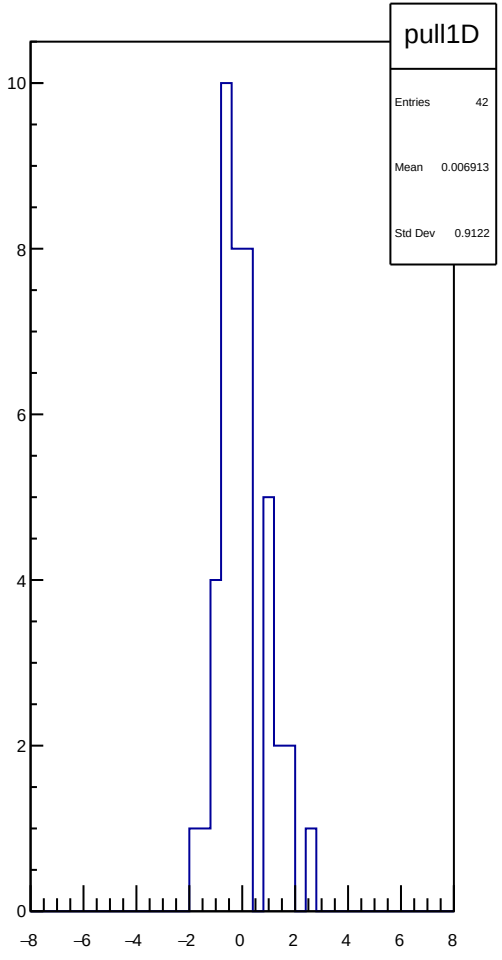

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.29 / 41
p0 −8.822 ± 15.25
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −280.8
Std Dev 306.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.007004
Std Dev 0.8492
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

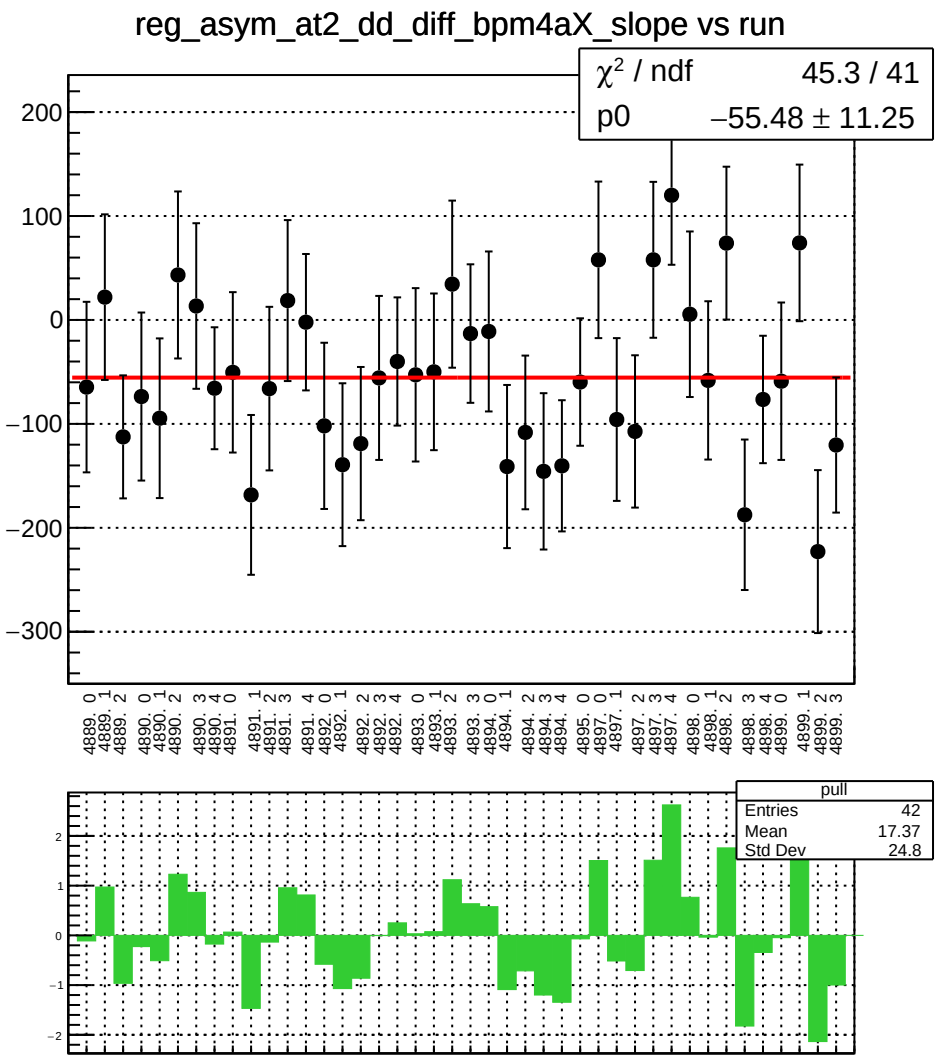

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.45 / 41
p0 −14.86 ± 2.114
40
20
0
−20
−40
−60
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −137.6
Std Dev 158.4
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.008773
Std Dev 0.9813
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

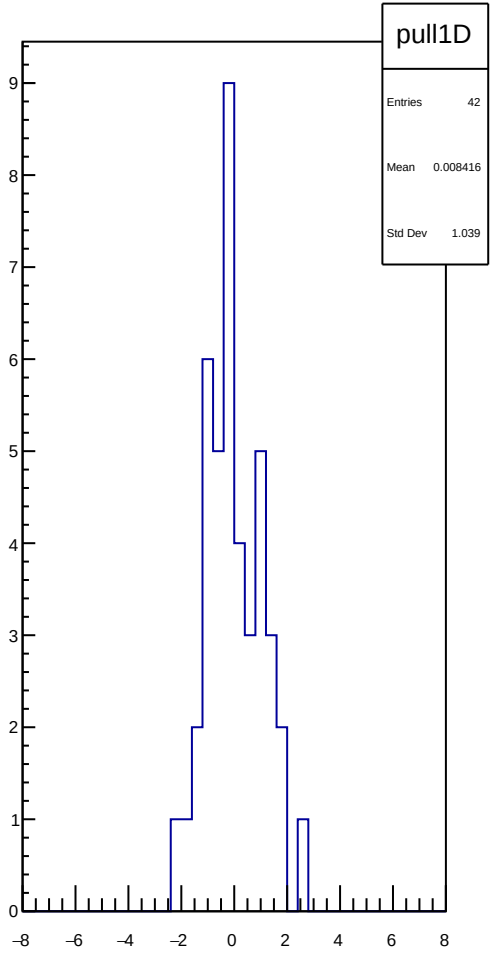

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.79 / 41
p0 3.109 ± 16.96
pull
Entries 42
Mean 708.3
Std Dev 682

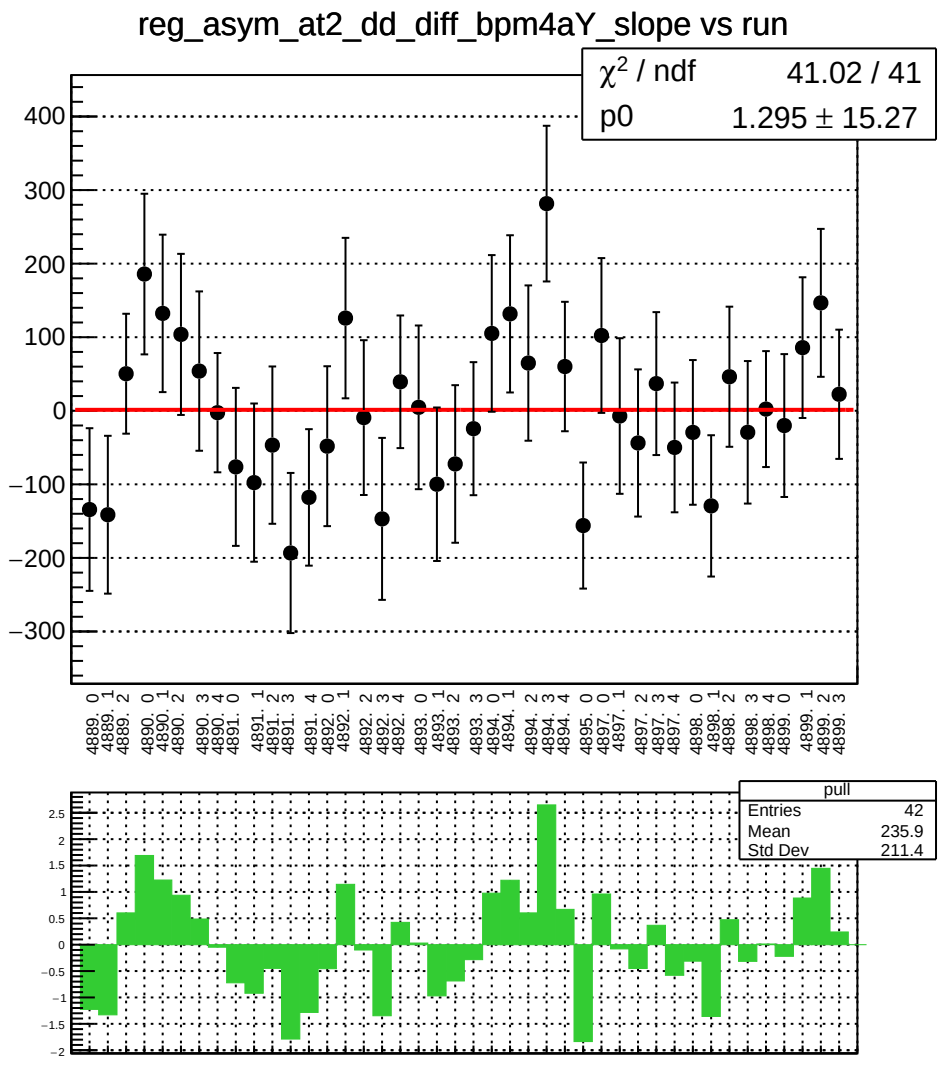

pull1D
Entries 42
Mean 0.001679
Std Dev 0.828

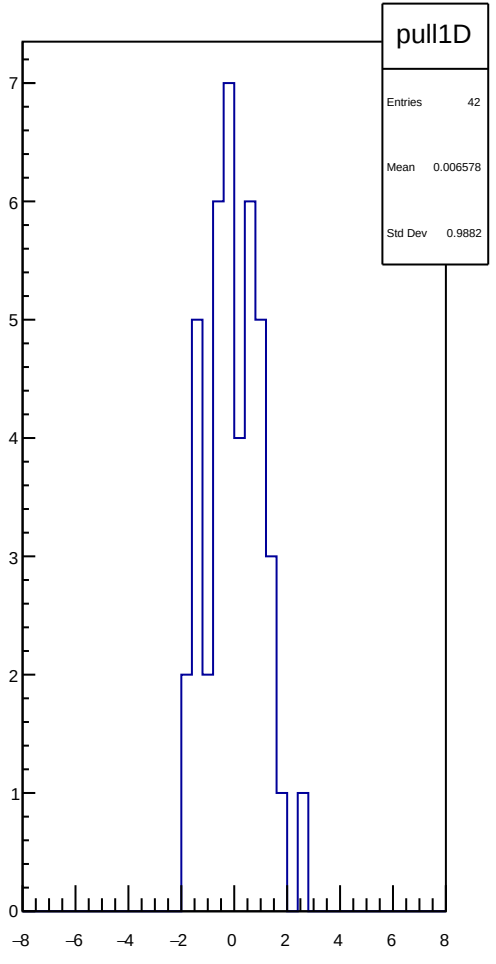

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 34.95 / 41
p0 −28.28 ± 2.922
pull
Entries 42
Mean 202.4
Std Dev 176.4

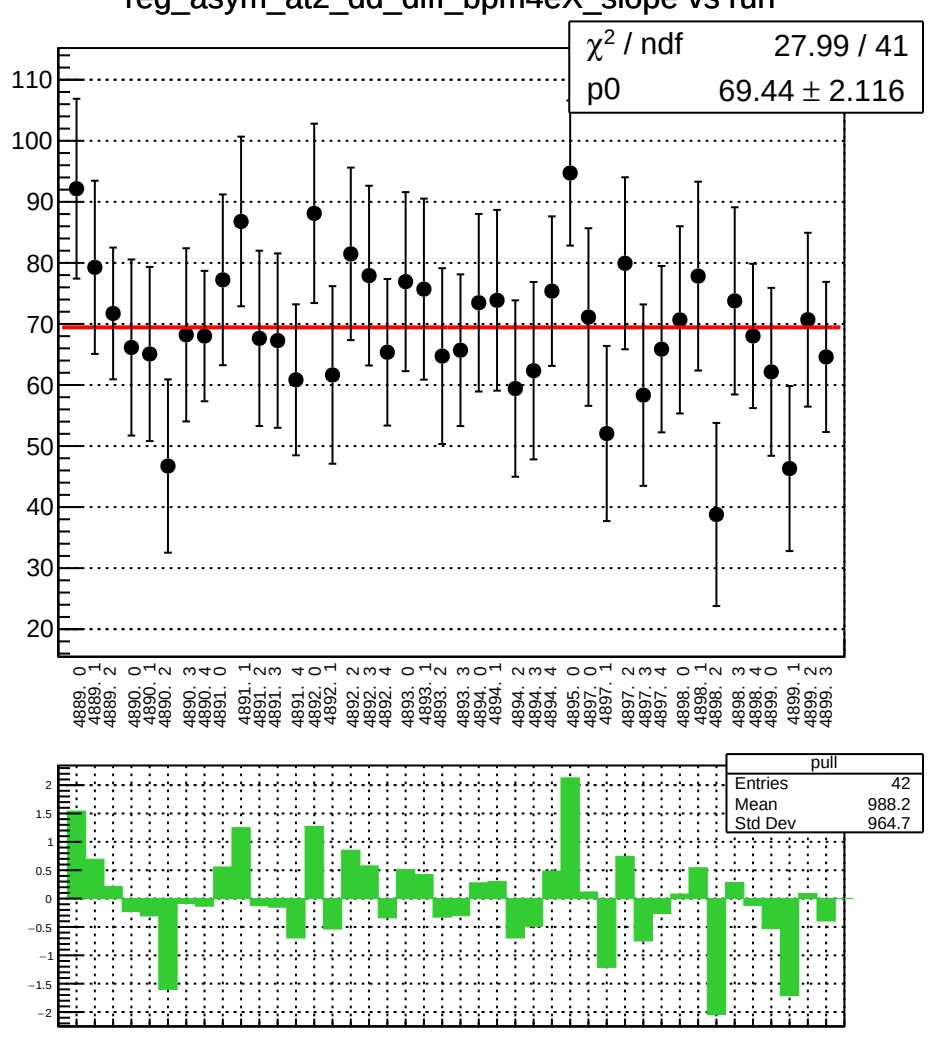

pull1D
Entries 42
Mean 0.006913
Std Dev 0.9122

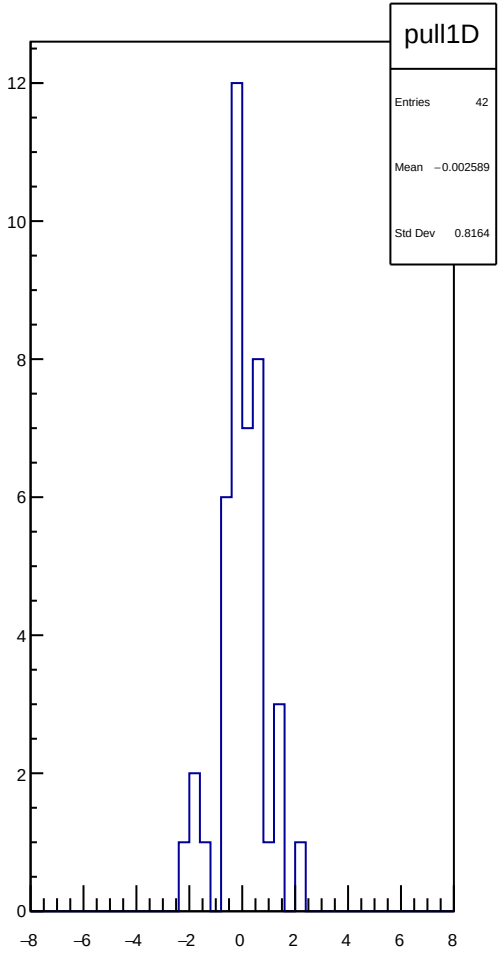

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.3 / 41
p0 −55.48 ± 11.25
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 17.37
Std Dev 24.8
2
1
0
−1
−2

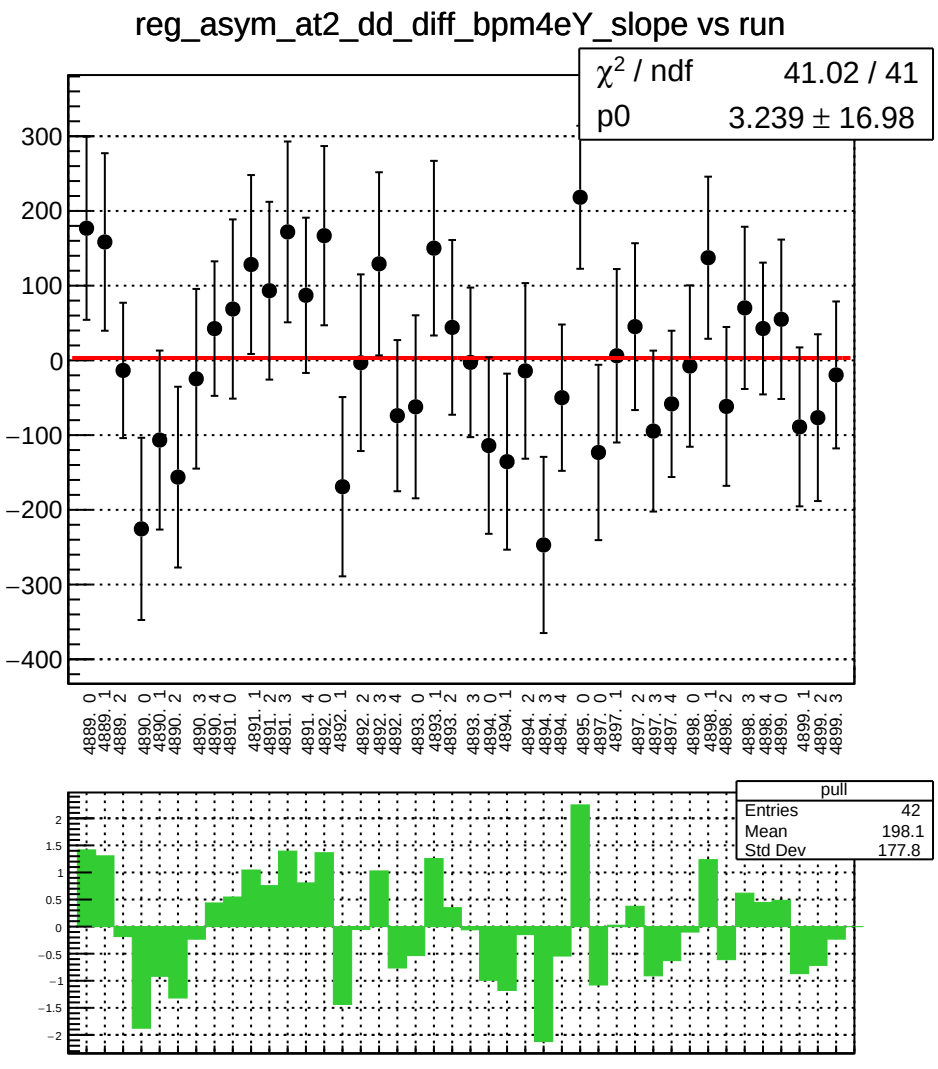

pull1D
Entries 42
Mean 0.008416
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

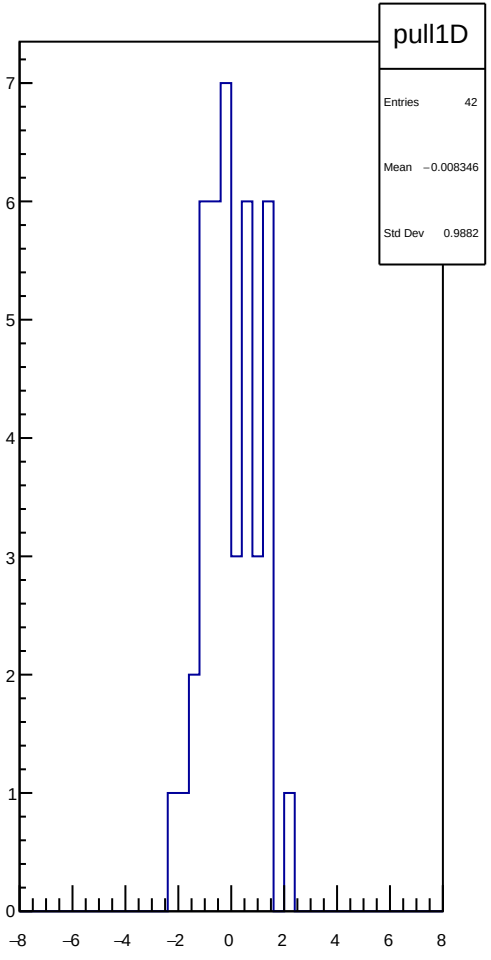

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.02 / 41
p0 1.295 ± 15.27
pull
Entries 42
Mean 235.9
Std Dev 211.4

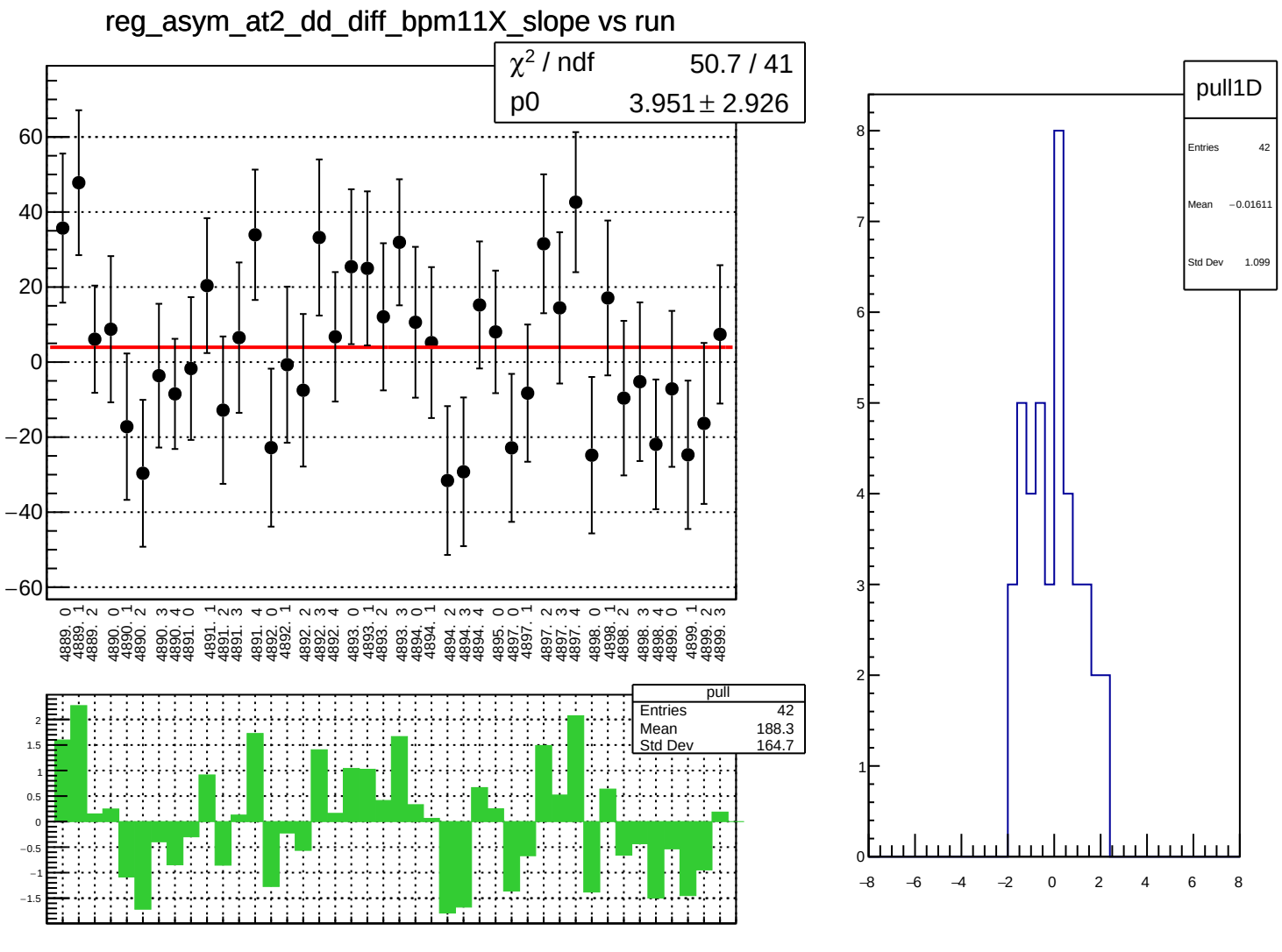

pull1D
Entries 42
Mean 0.006578
Std Dev 0.9882

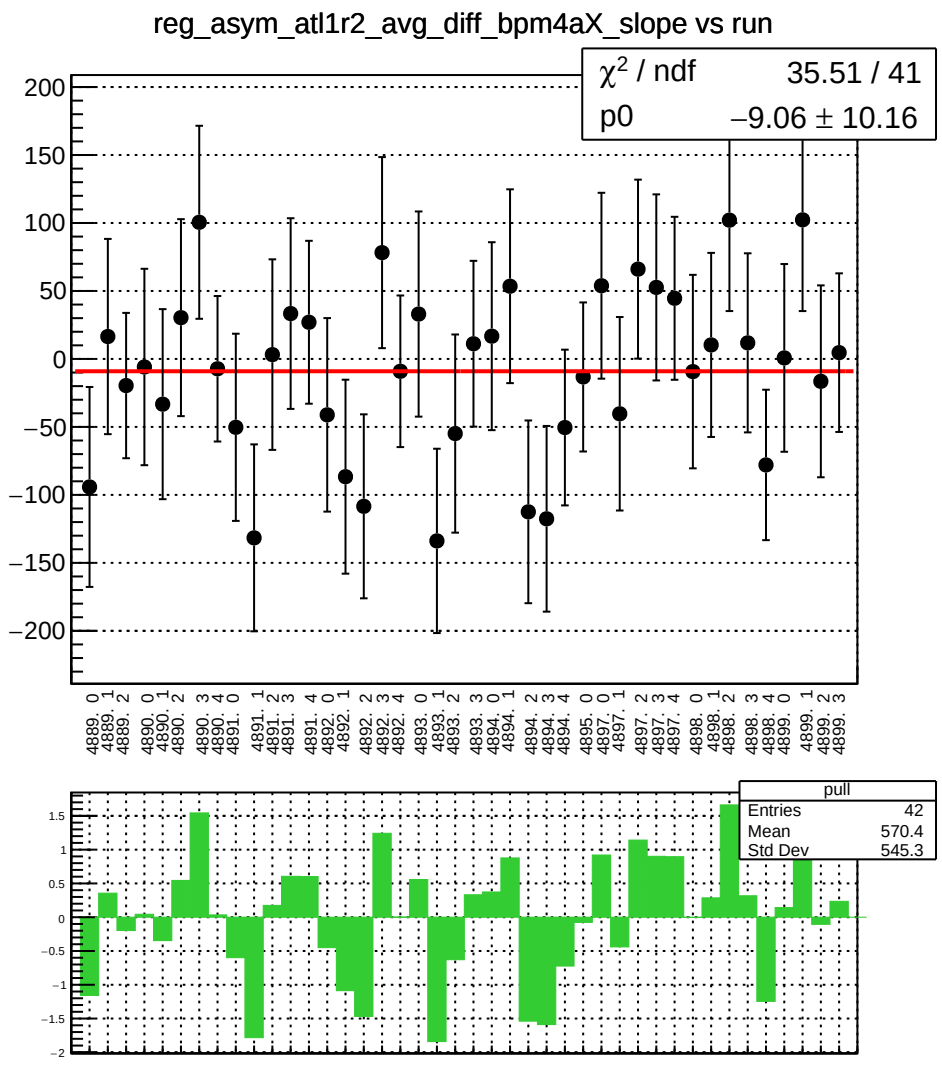

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.99 / 41
p0 69.44 ± 2.116
pull
Entries 42
Mean 988.2
Std Dev 964.7

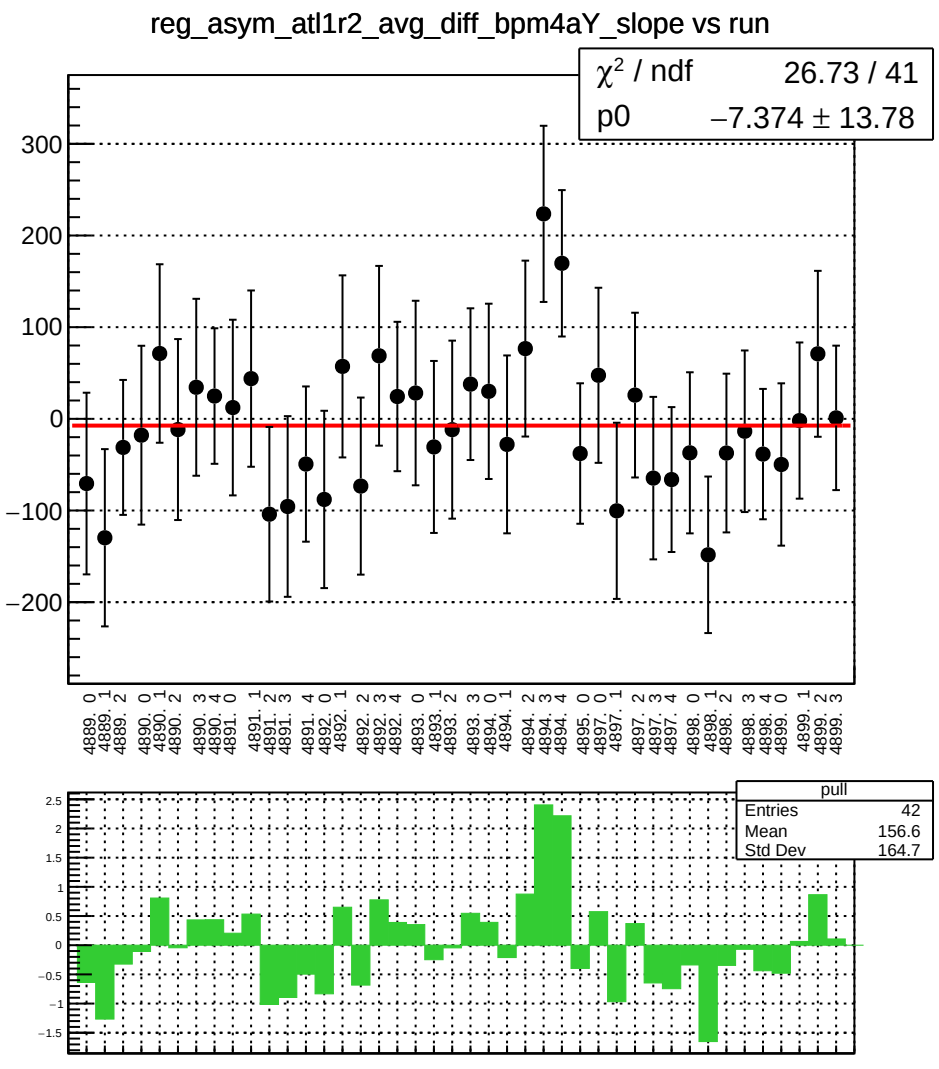

pull1D
Entries 42
Mean −0.002589
Std Dev 0.8164

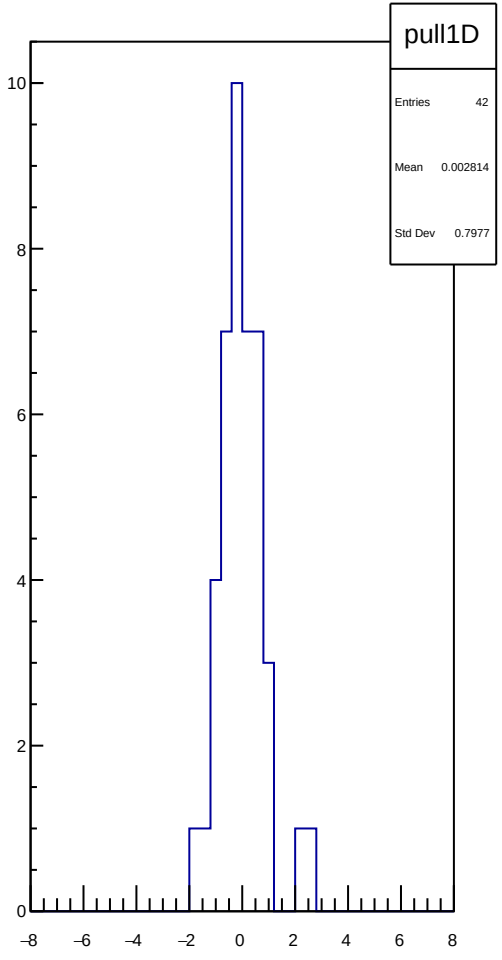

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.02 / 41
p0 3.239 ± 16.98
300
200
100
0
−100
−200
−300
−400
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 198.1
Std Dev 177.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

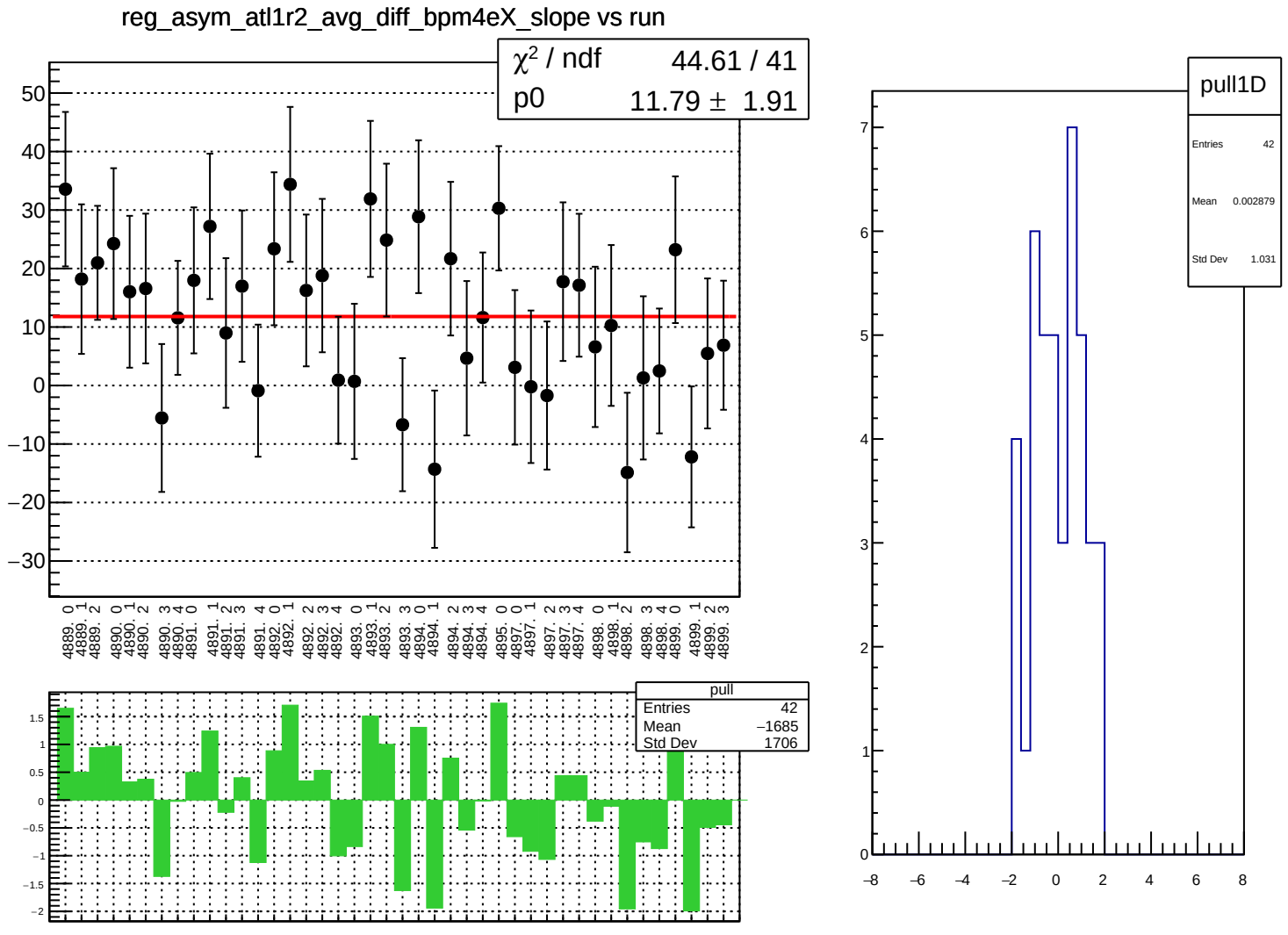

pull1D
Entries 42
Mean −0.008346
Std Dev 0.9882
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

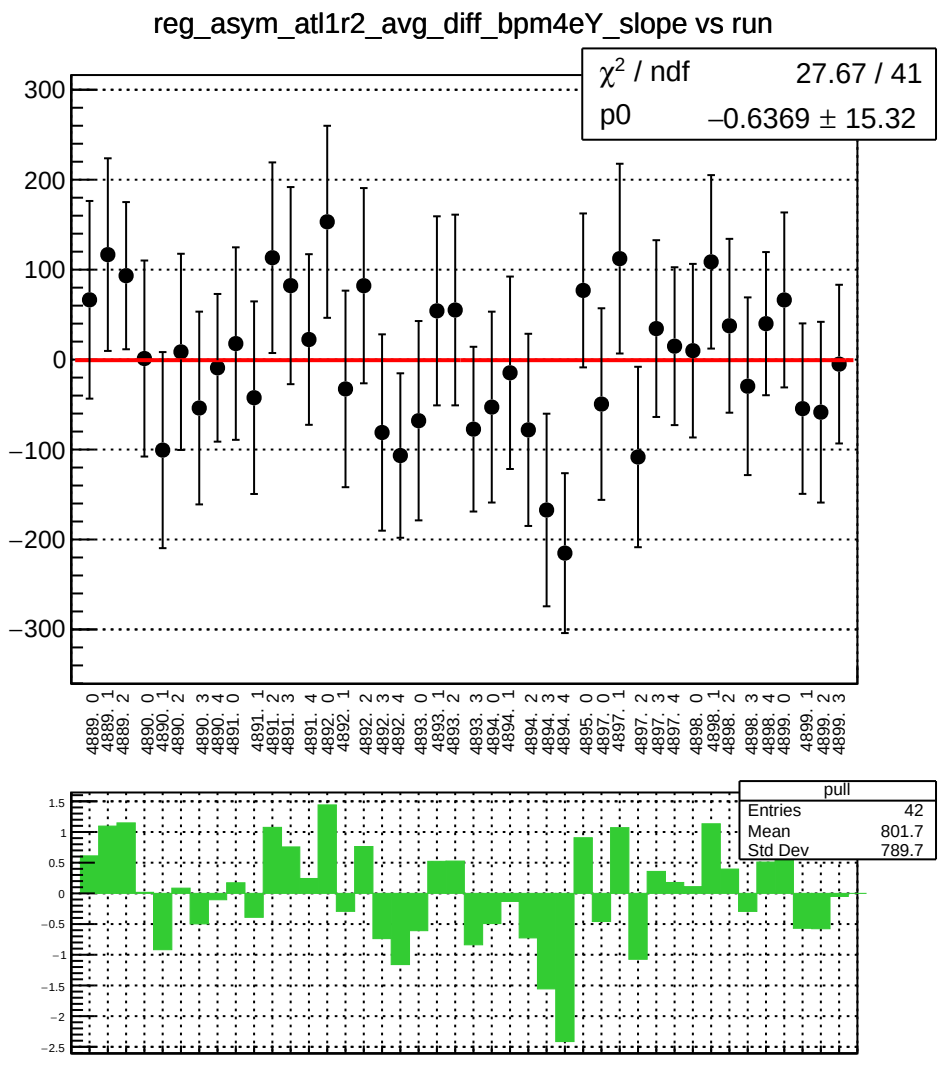

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 50.7 / 41
p0 3.951 ± 2.926
pull
Entries 42
Mean 188.3
Std Dev 164.7
pull1D
Entries 42
Mean −0.01611
Std Dev 1.099

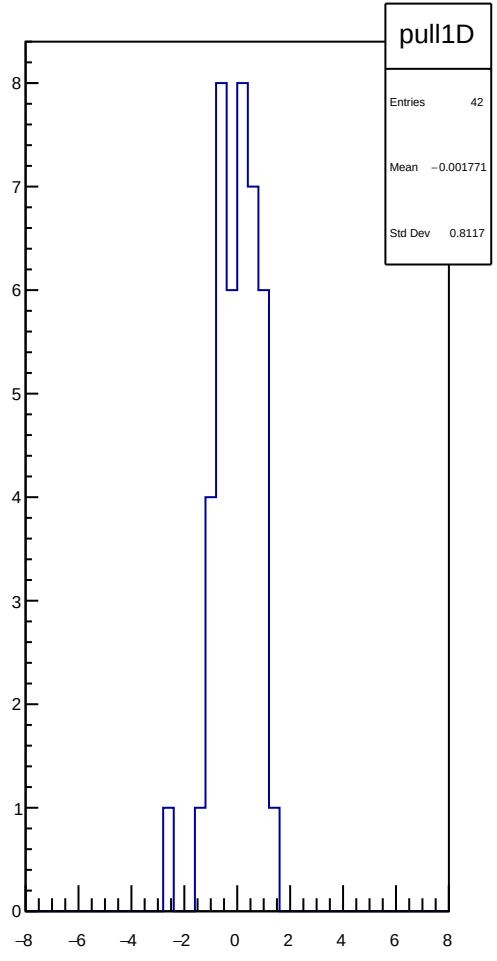

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.51 / 41
p0 −9.06 ± 10.16
200
150
100
50
0
−50
−100
−150
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 570.4
Std Dev 545.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.003984
Std Dev 0.9195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

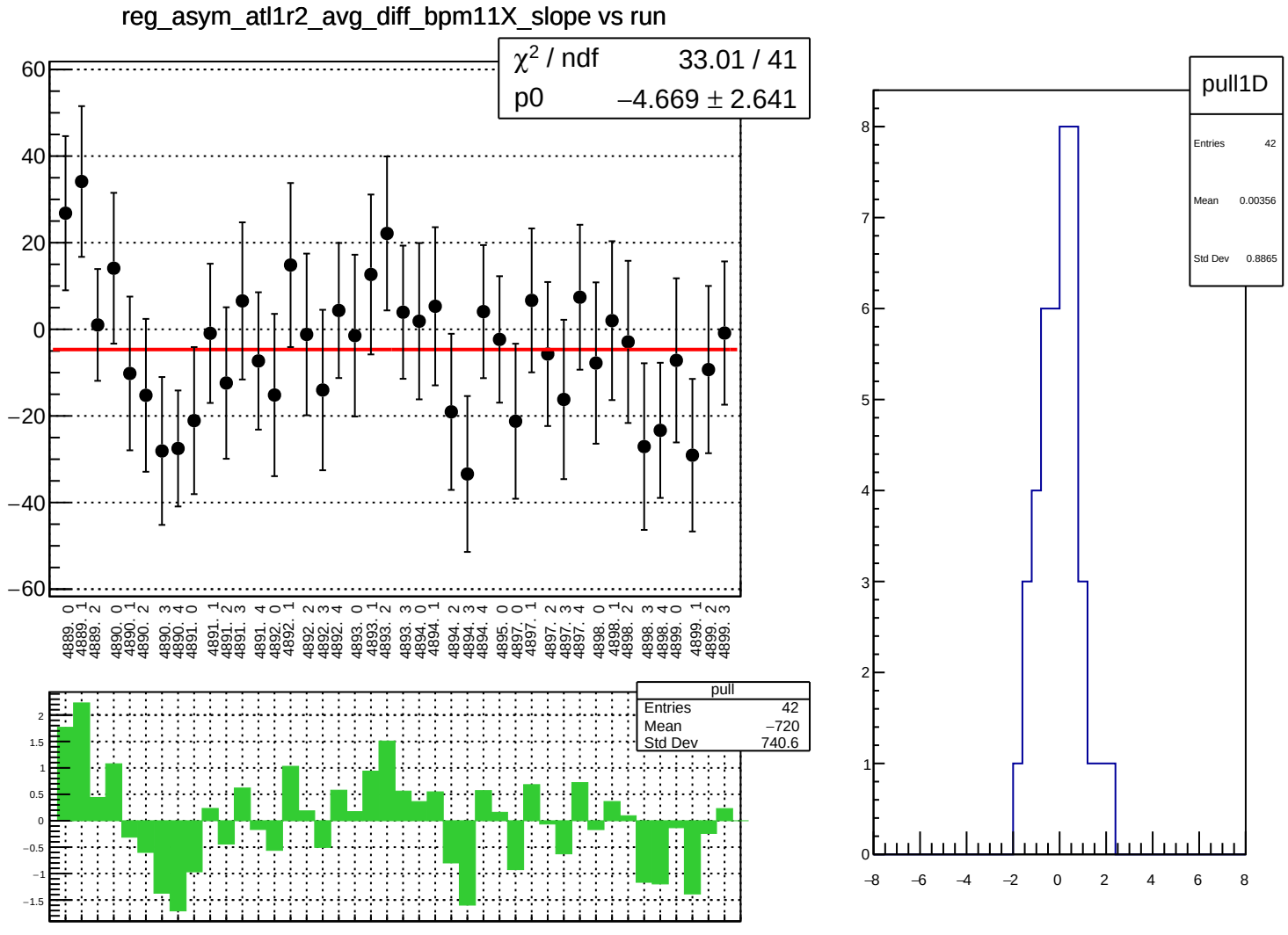

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.73 / 41
p0 −7.374 ± 13.78
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 156.6
Std Dev 164.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

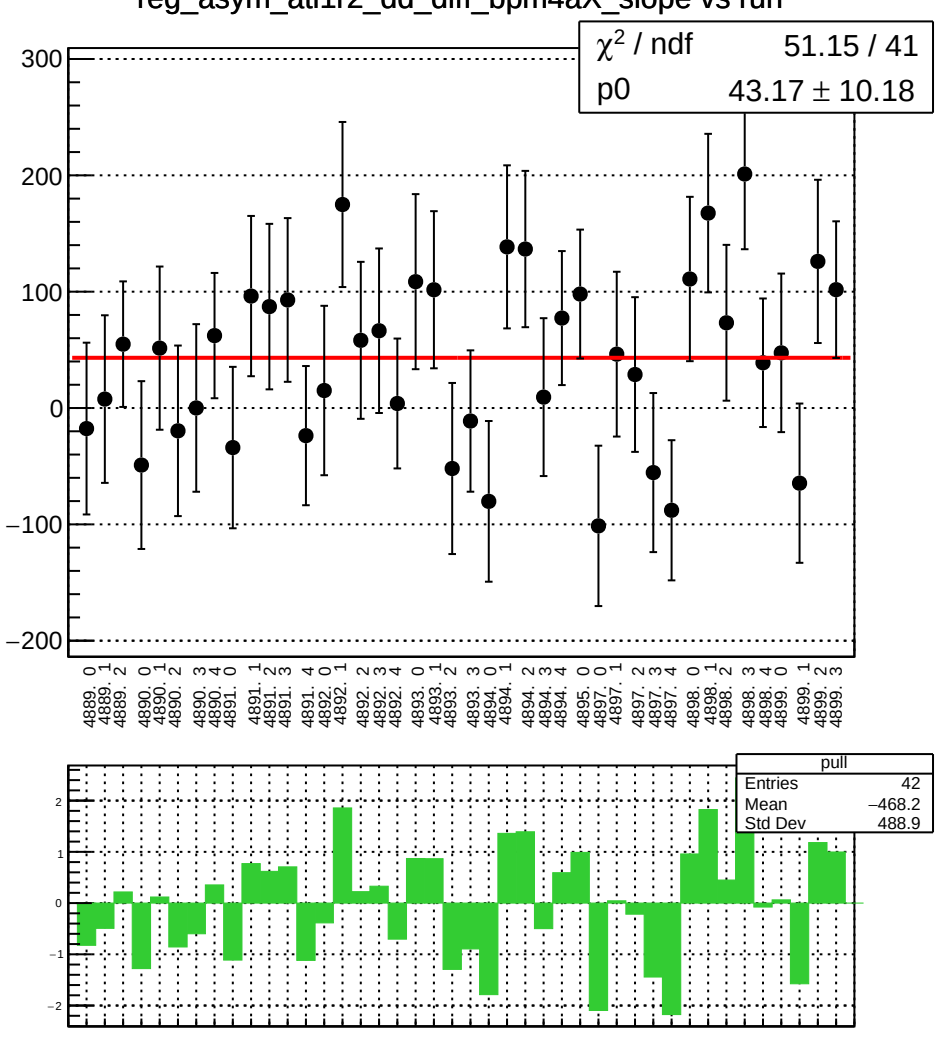

pull1D
Entries 42
Mean 0.002814
Std Dev 0.7977
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

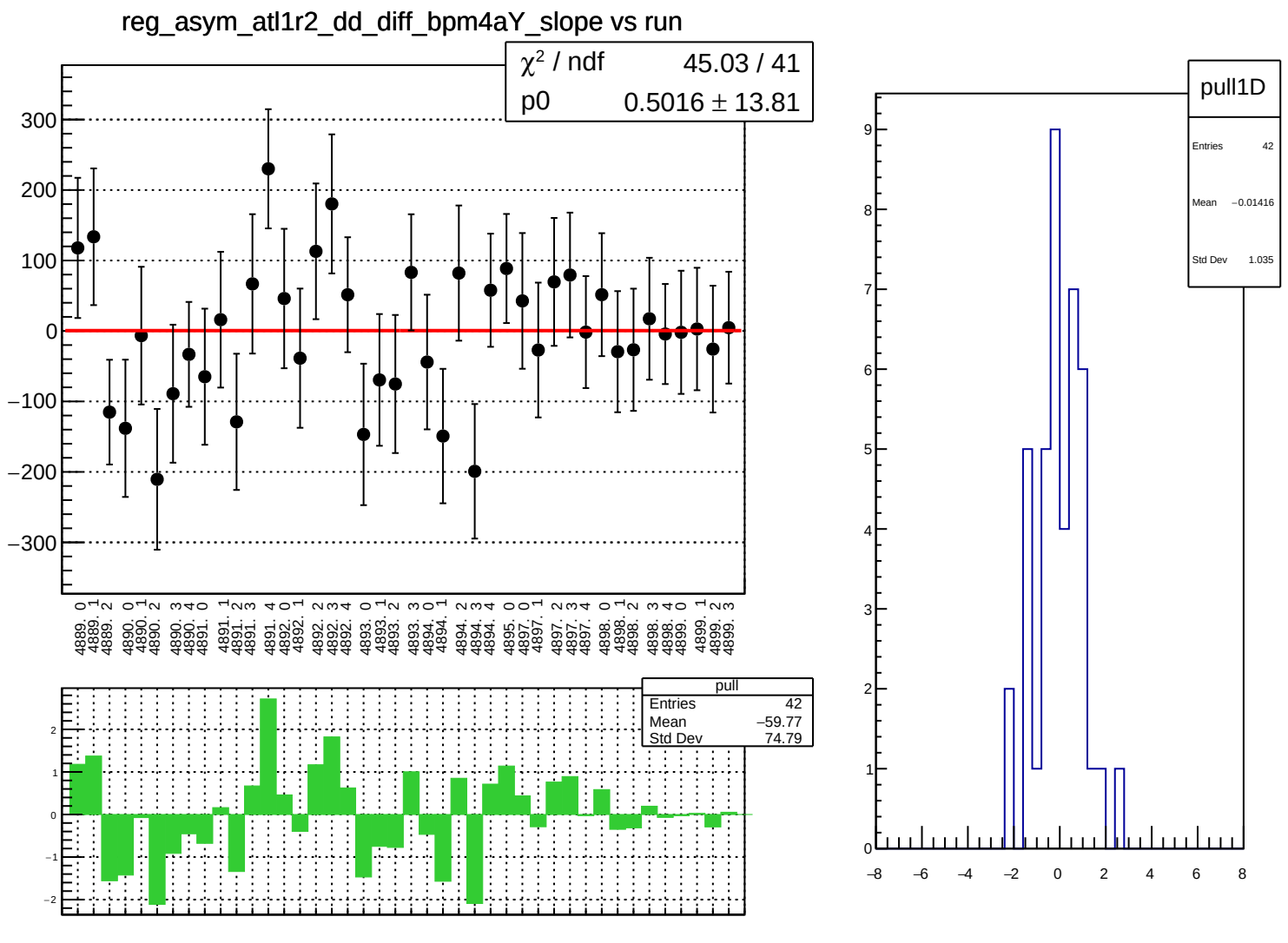

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.61 / 41
p0 11.79 ± 1.91
pull
Entries 42
Mean −1685
Std Dev 1706
pull1D
Entries 42
Mean 0.002879
Std Dev 1.031

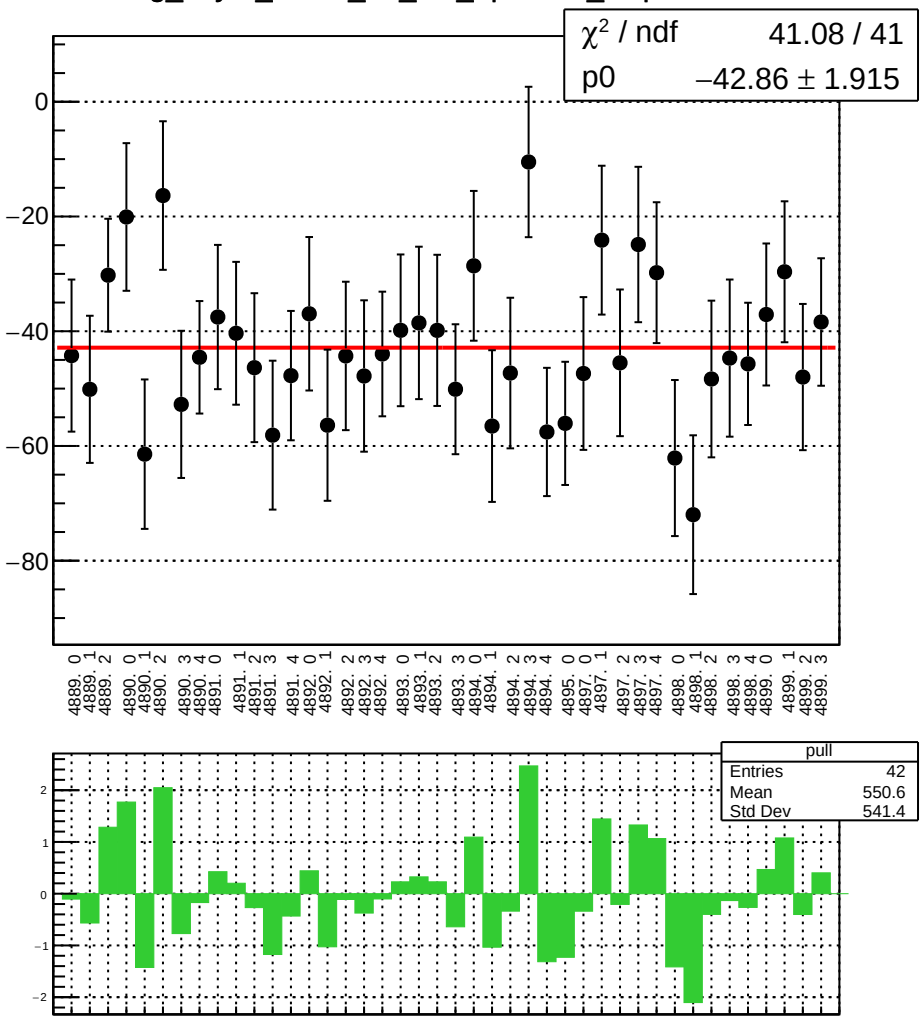

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.67 / 41
p0 −0.6369 ± 15.32
pull
Entries 42
Mean 801.7
Std Dev 789.7

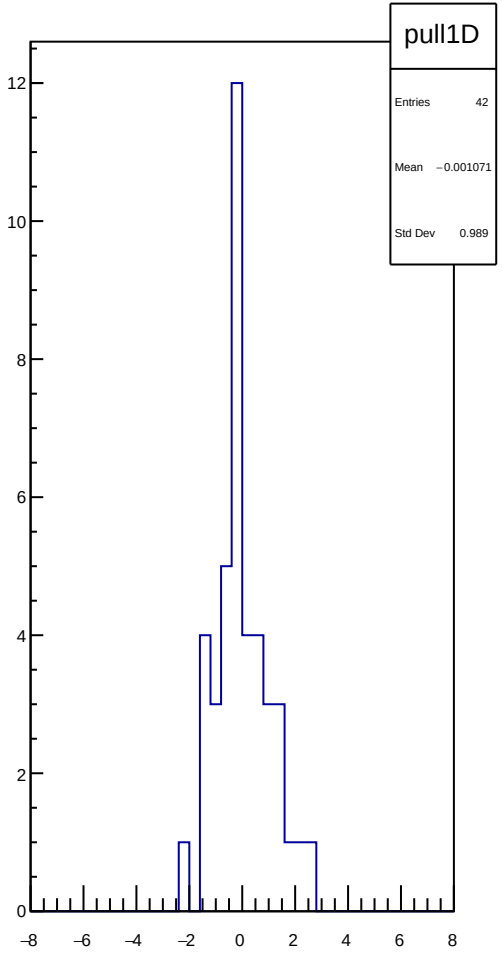

pull1D
Entries 42
Mean −0.001771
Std Dev 0.8117

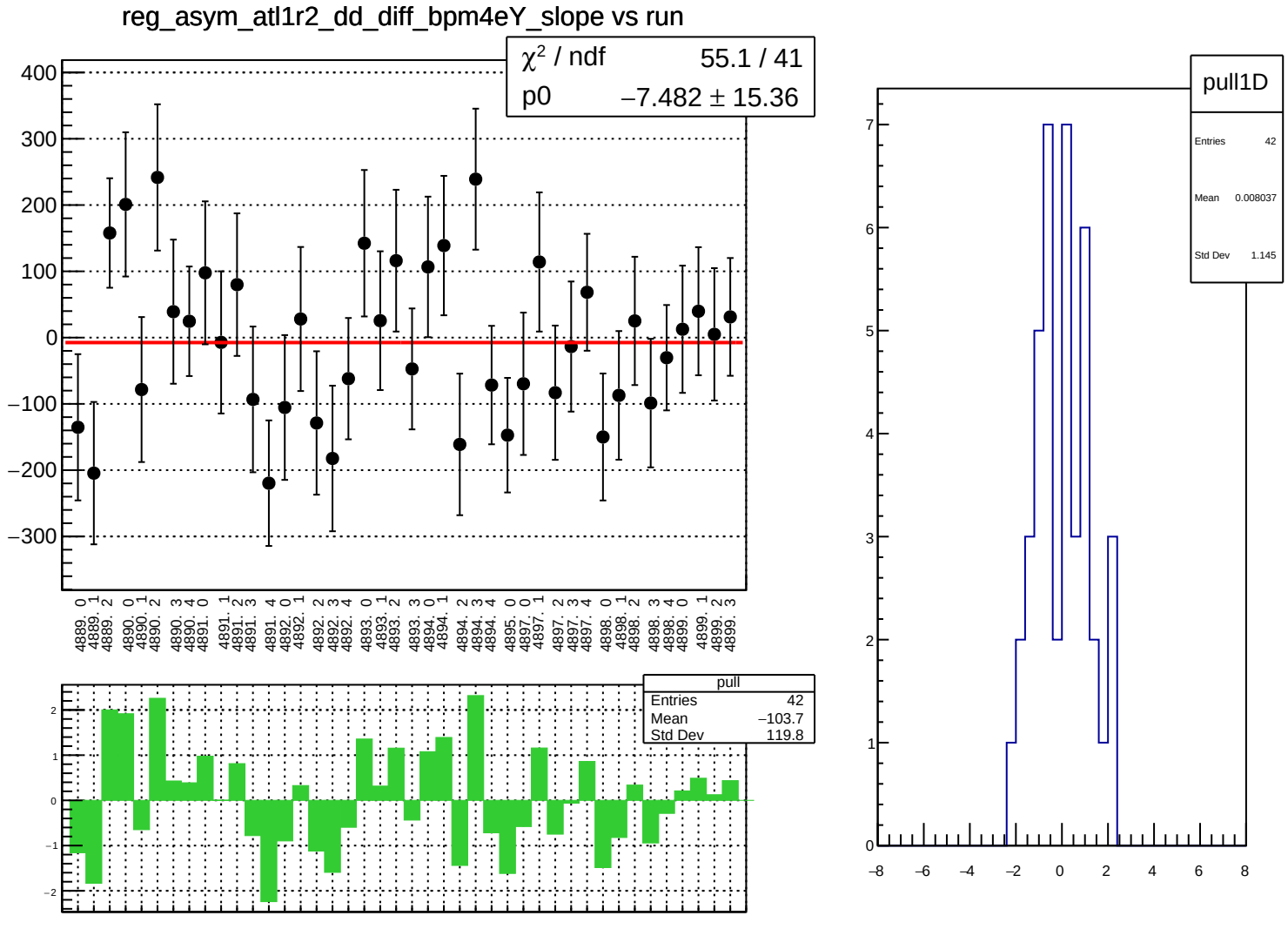

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 33.01 / 41
p0 −4.669 ± 2.641
pull
Entries 42
Mean −720
Std Dev 740.6
pull1D
Entries 42
Mean 0.00356
Std Dev 0.8865

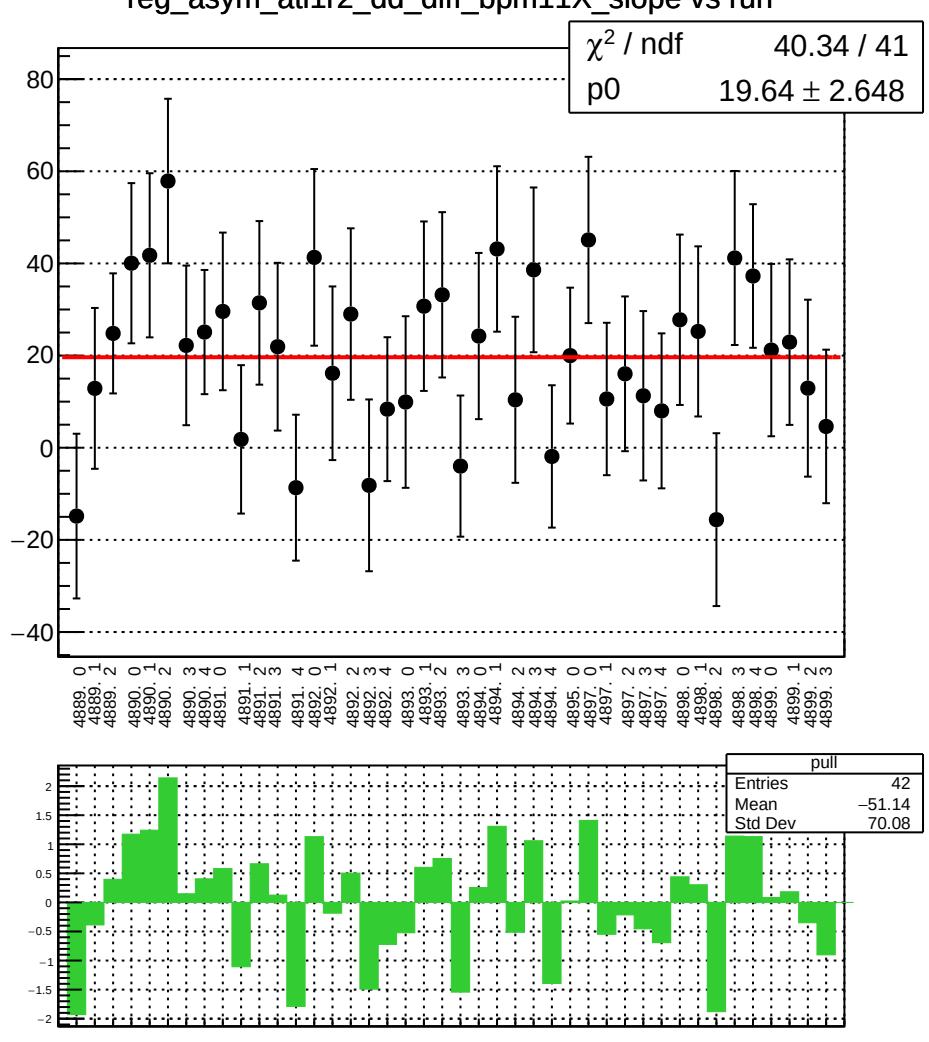

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 51.15 / 41
p0 43.17 ± 10.18
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −468.2
Std Dev 488.9
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.004836
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

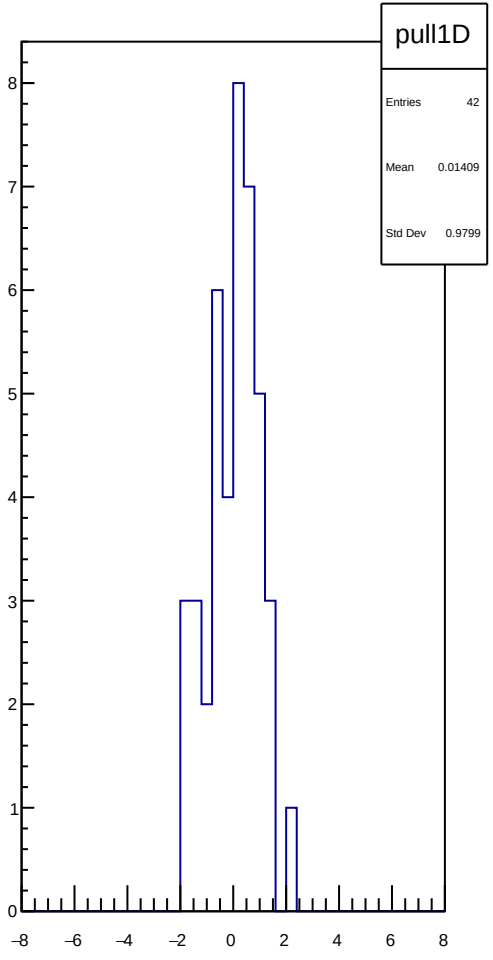

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.03 / 41
p0 0.5016 ± 13.81
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −59.77
Std Dev 74.79
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01416
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

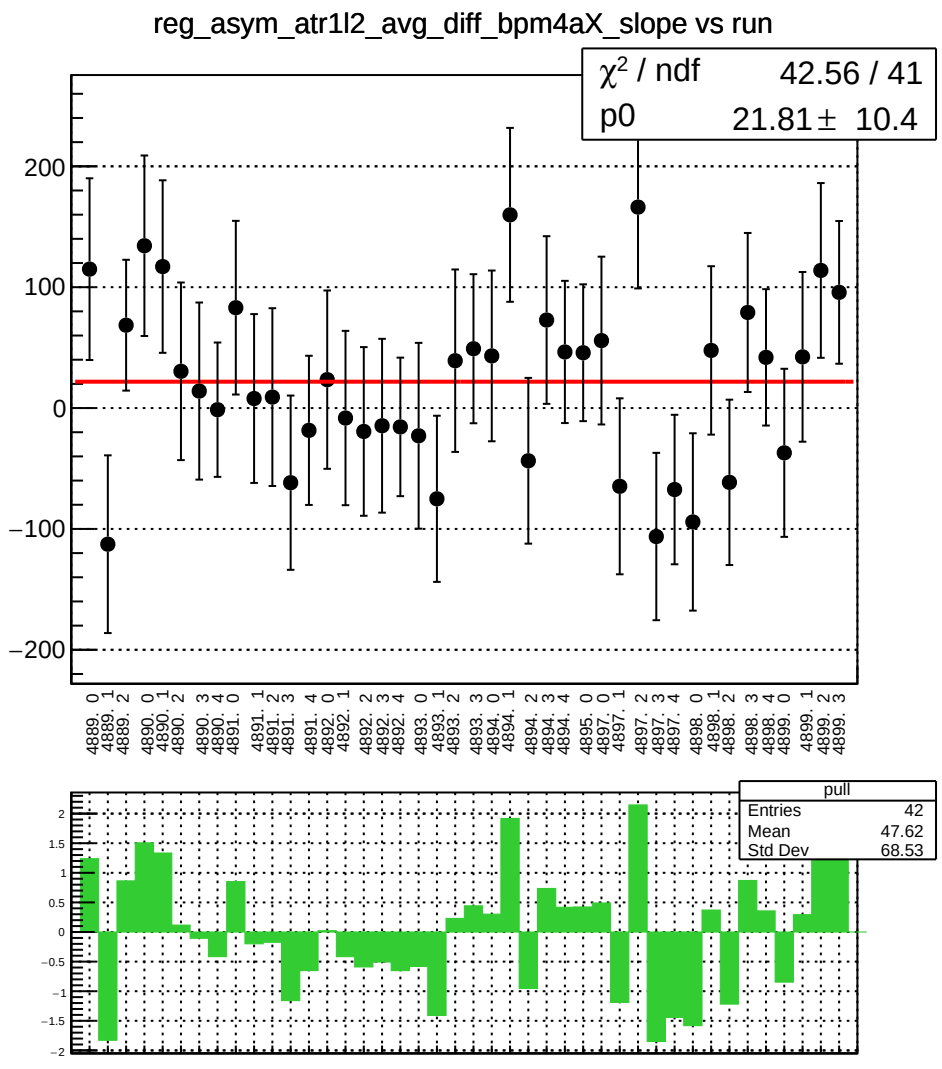

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.08 / 41
p0 −42.86 ± 1.915
0
−20
−40
−60
−80
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 550.6
Std Dev 541.4
2
1
0
−1
−2

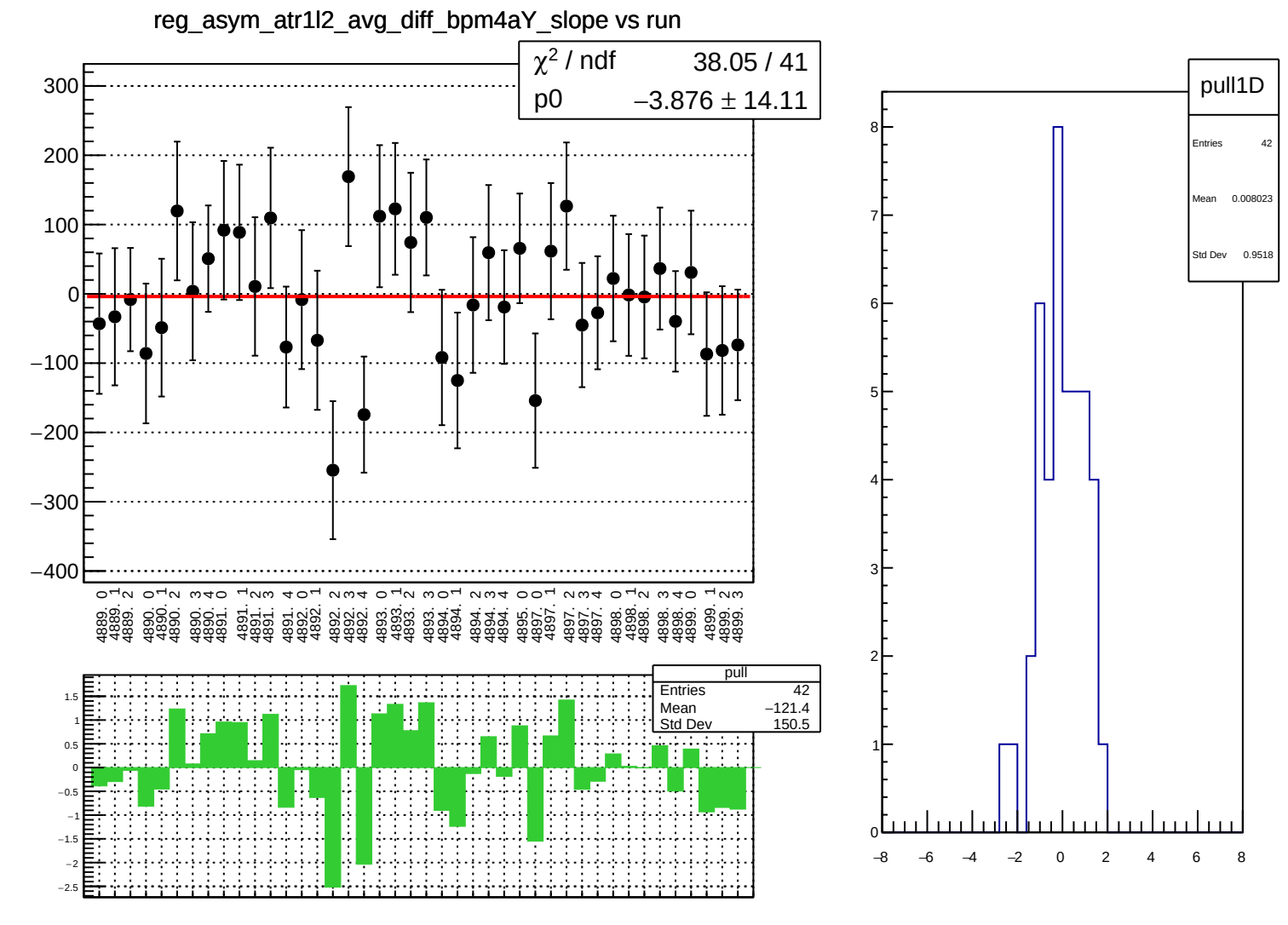

pull1D
Entries 42
Mean −0.001071
Std Dev 0.989
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

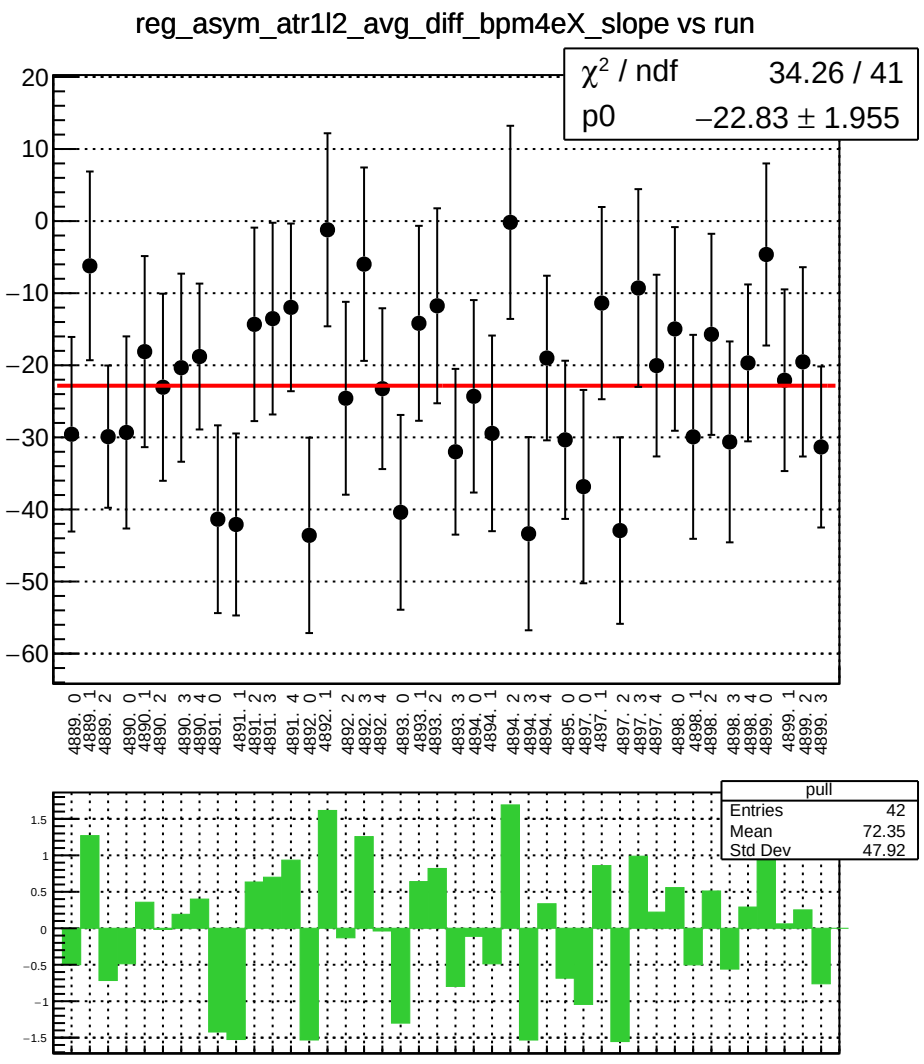

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.1 / 41
p0 −7.482 ± 15.36
400
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −103.7
Std Dev 119.8
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.008037
Std Dev 1.145
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

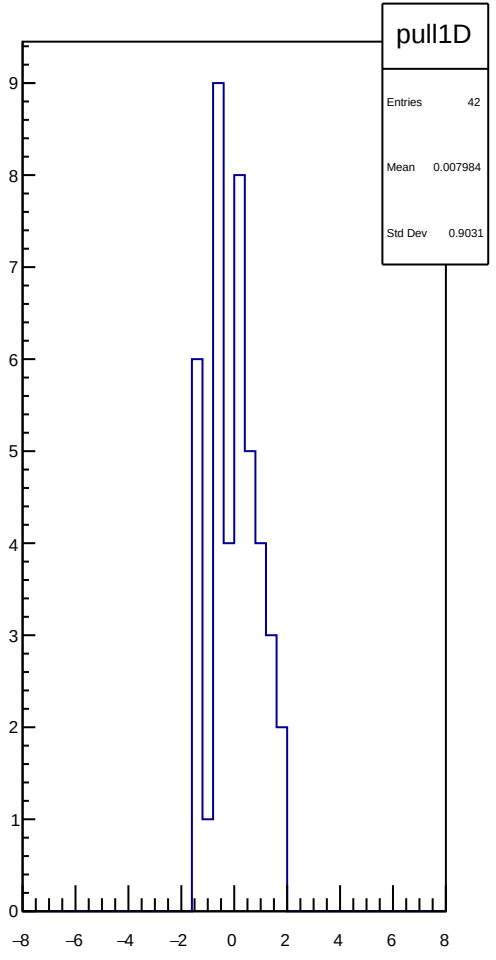

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 40.34 / 41
p0 19.64 ± 2.648
pull
Entries 42
Mean −51.14
Std Dev 70.08

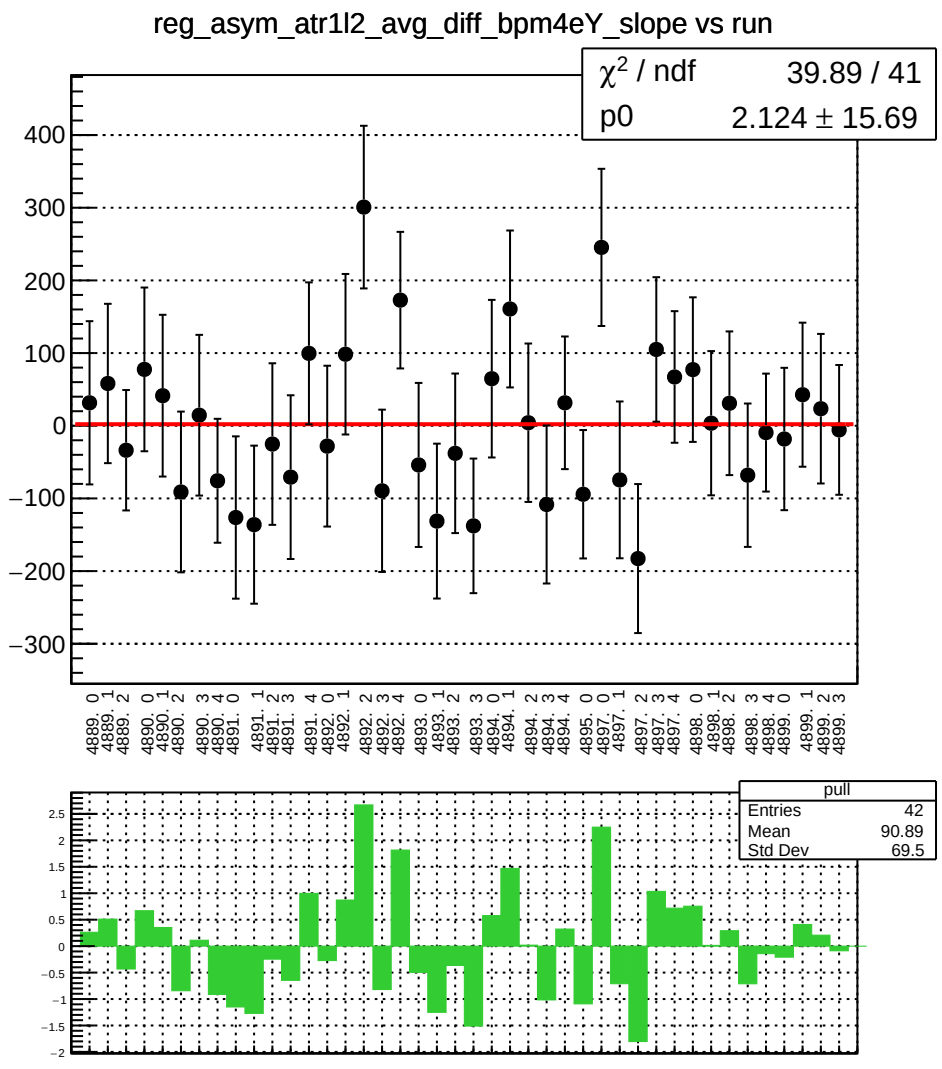

pull1D
Entries 42
Mean 0.01409
Std Dev 0.9799

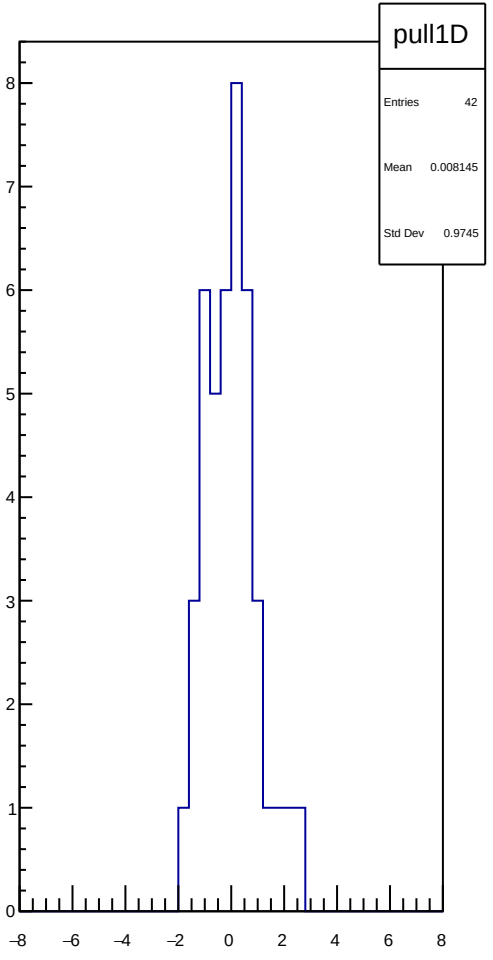

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 42.56 / 41
p0 21.81 ± 10.4
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 47.62
Std Dev 68.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.007531
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

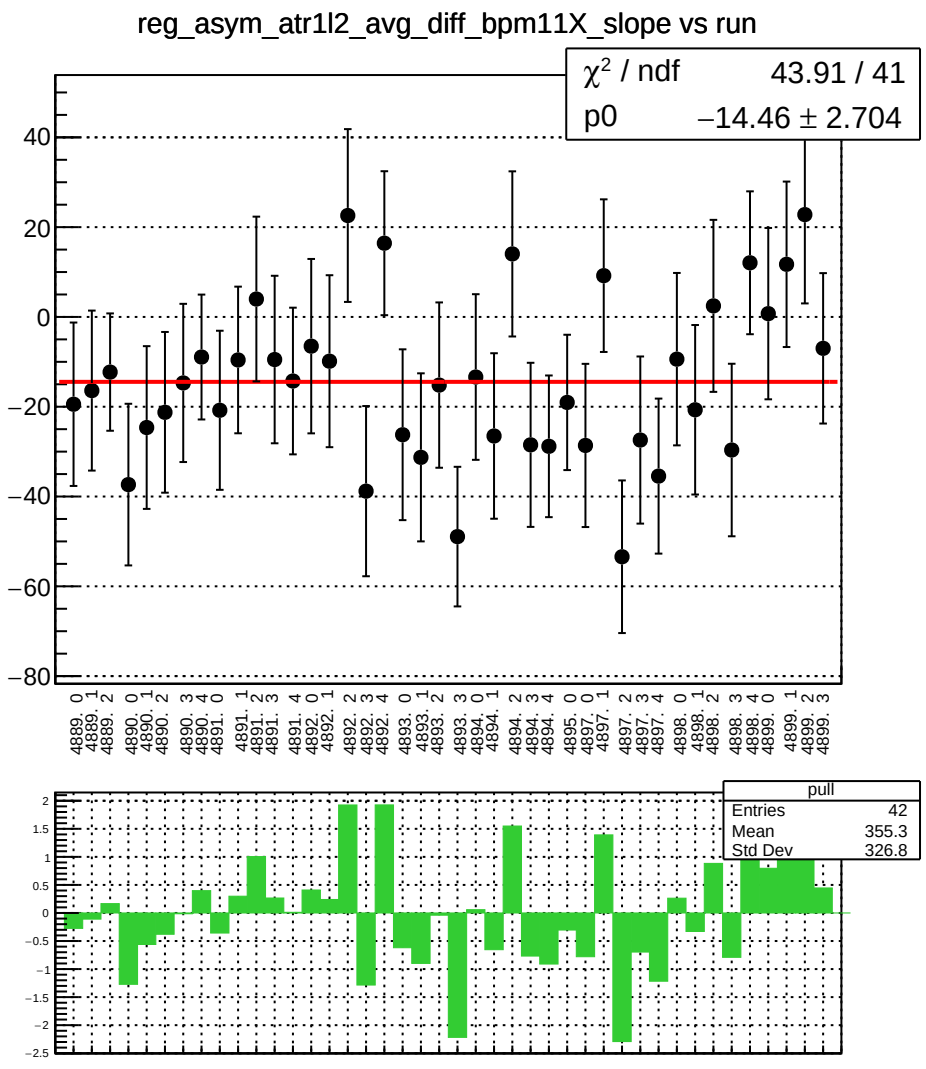

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.05 / 41
p0 −3.876 ± 14.11
pull
Entries 42
Mean −121.4
Std Dev 150.5
pull1D
Entries 42
Mean 0.008023
Std Dev 0.9518

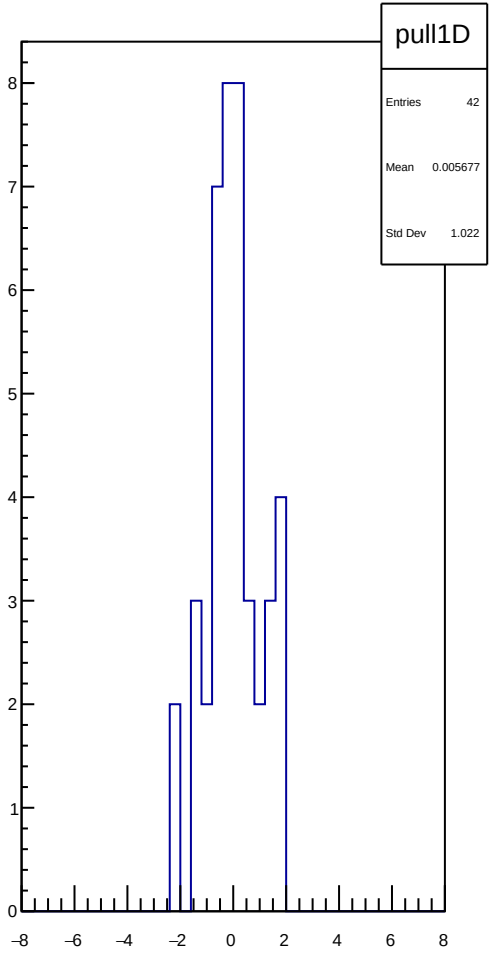

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.26 / 41
p0 −22.83 ± 1.955
pull
Entries 42
Mean 72.35
Std Dev 47.92

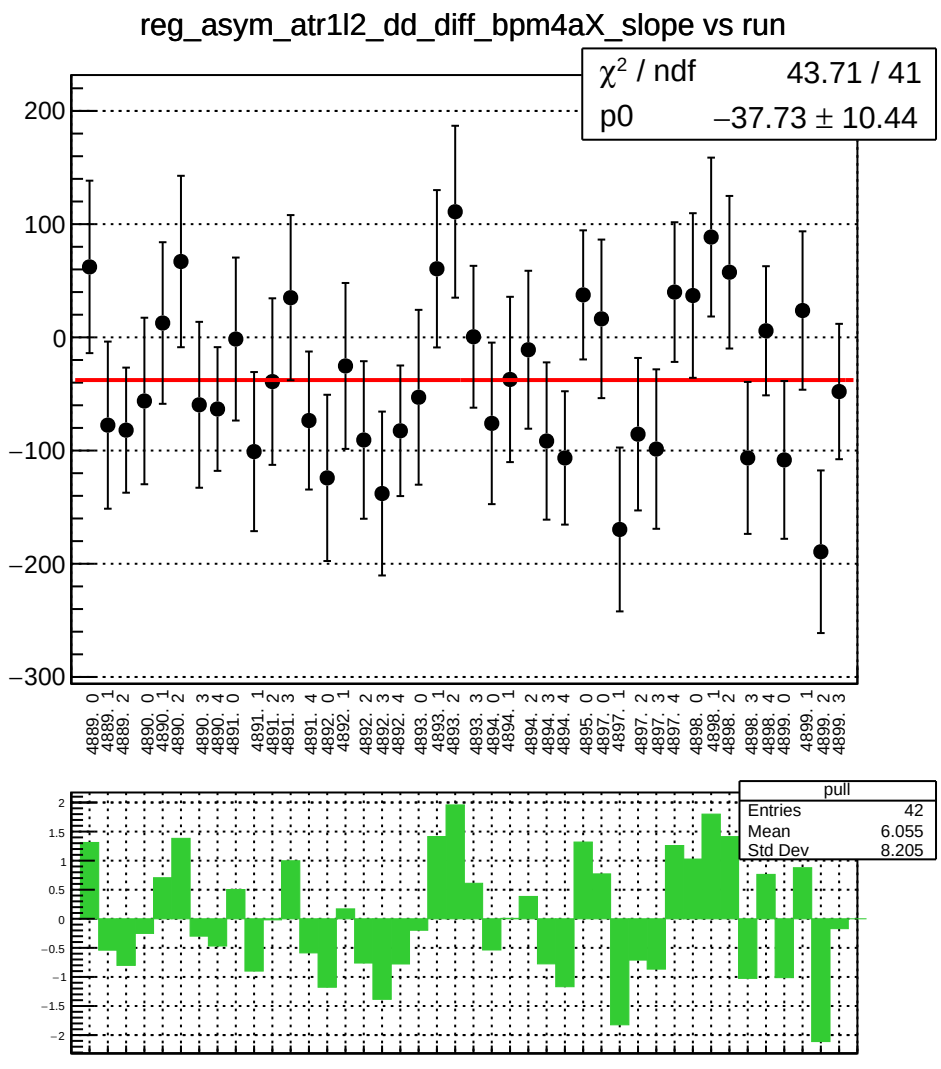

pull1D
Entries 42
Mean 0.007984
Std Dev 0.9031

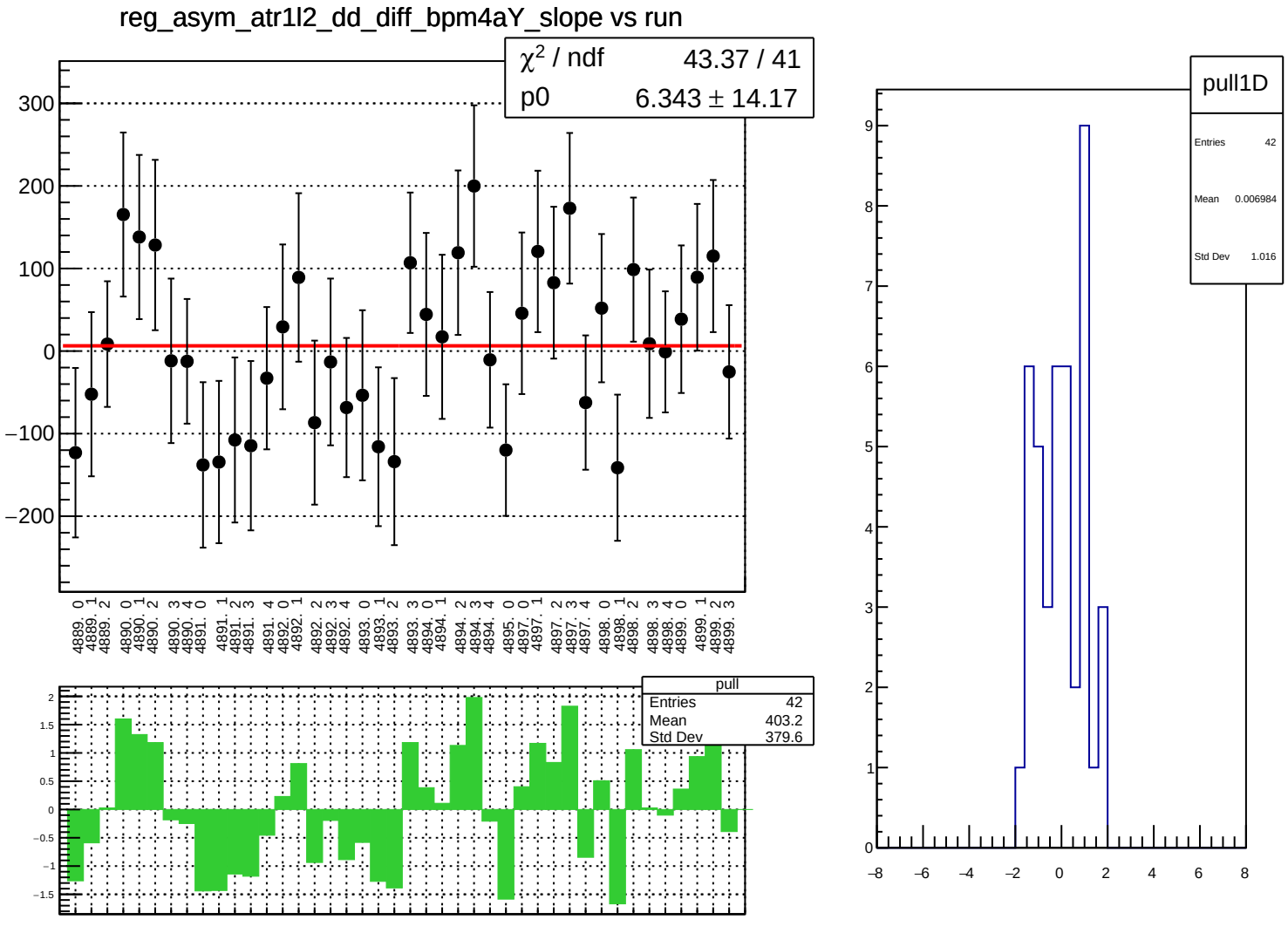

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.89 / 41
p0 2.124 ± 15.69
400
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 90.89
Std Dev 69.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

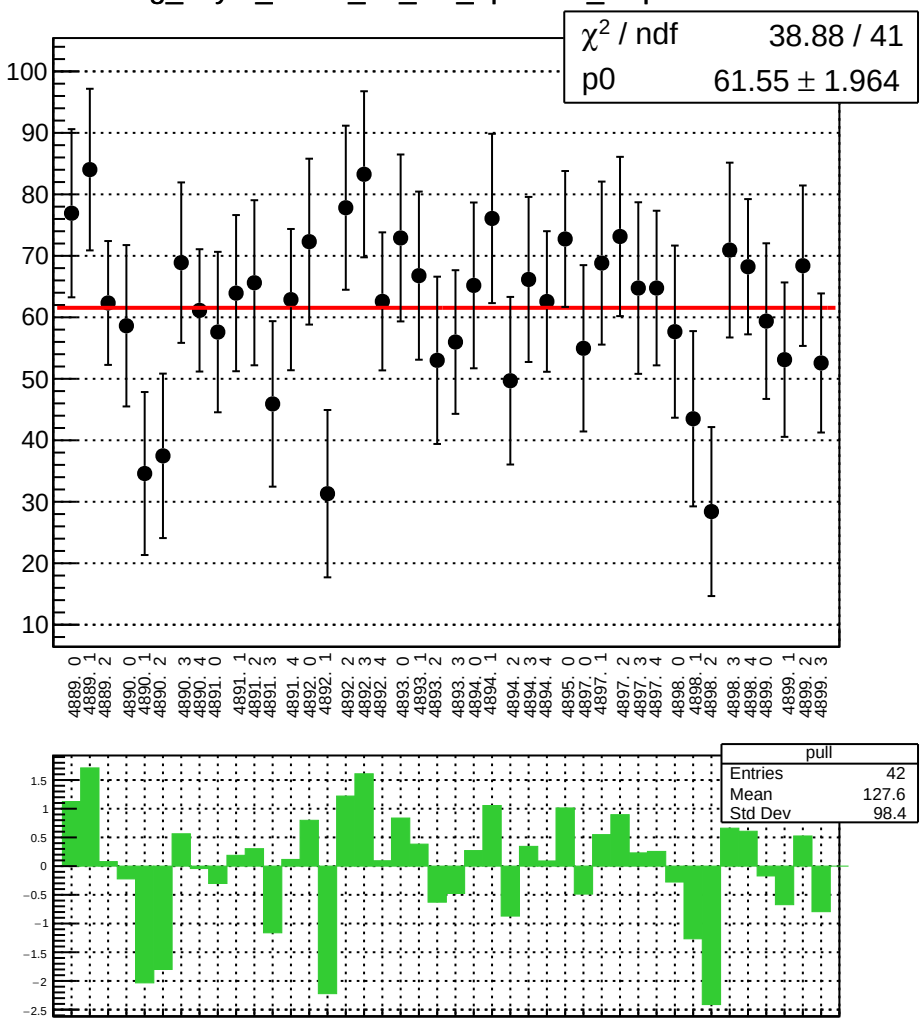

pull1D
Entries 42
Mean 0.008145
Std Dev 0.9745
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

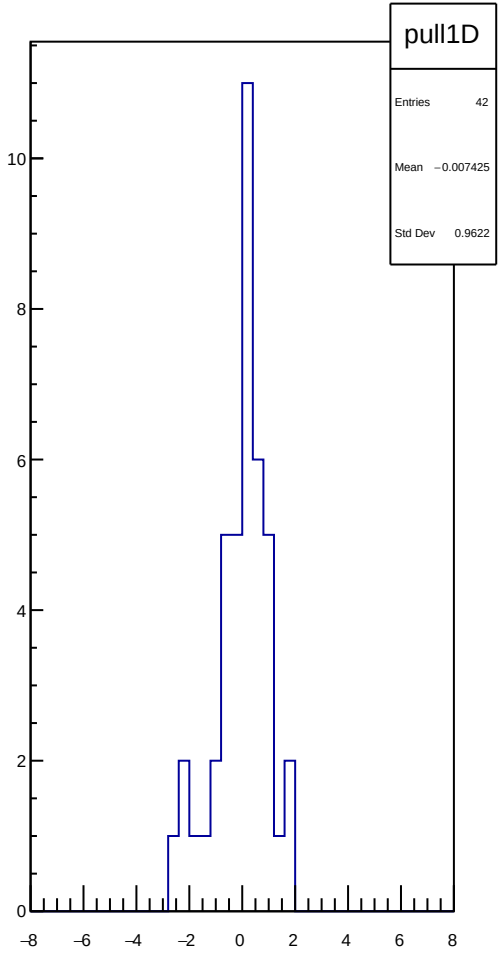

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 43.91 / 41
p0 −14.46 ± 2.704
pull
Entries 42
Mean 355.3
Std Dev 326.8

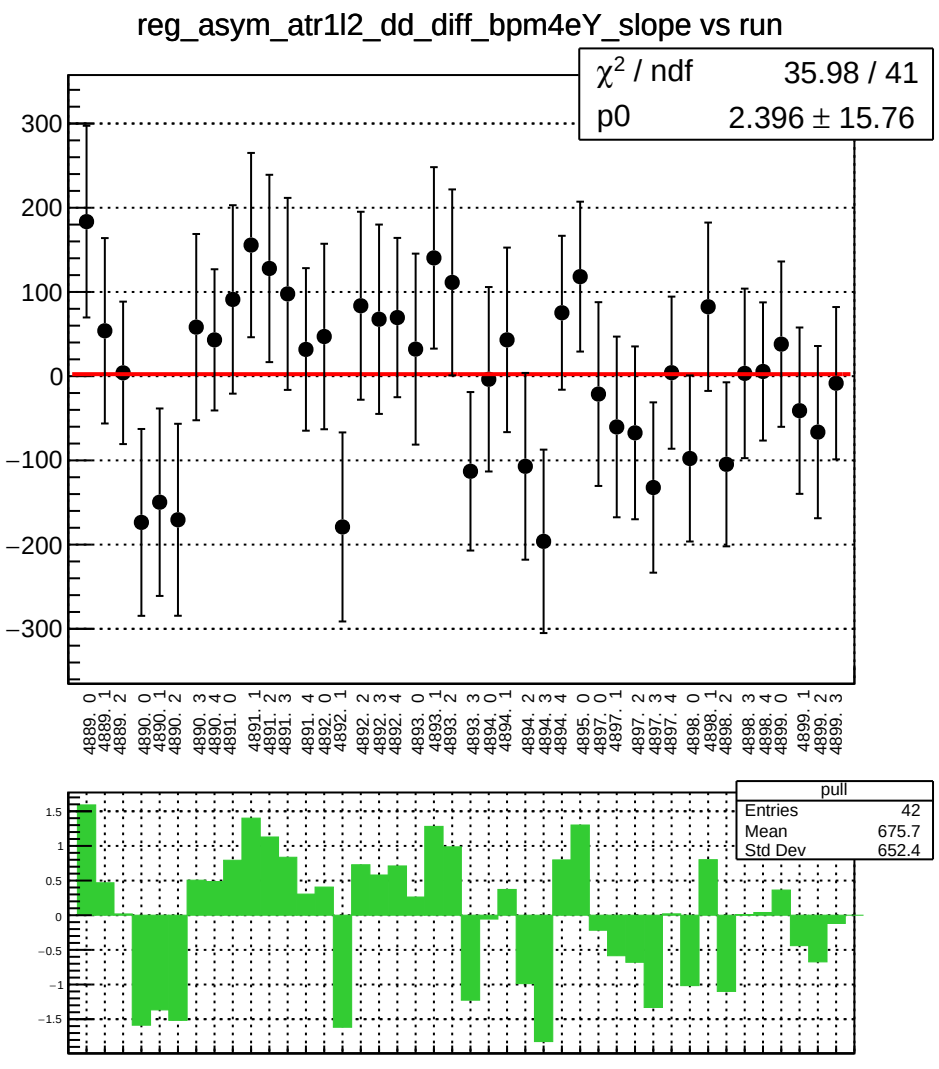

pull1D
Entries 42
Mean 0.005677
Std Dev 1.022

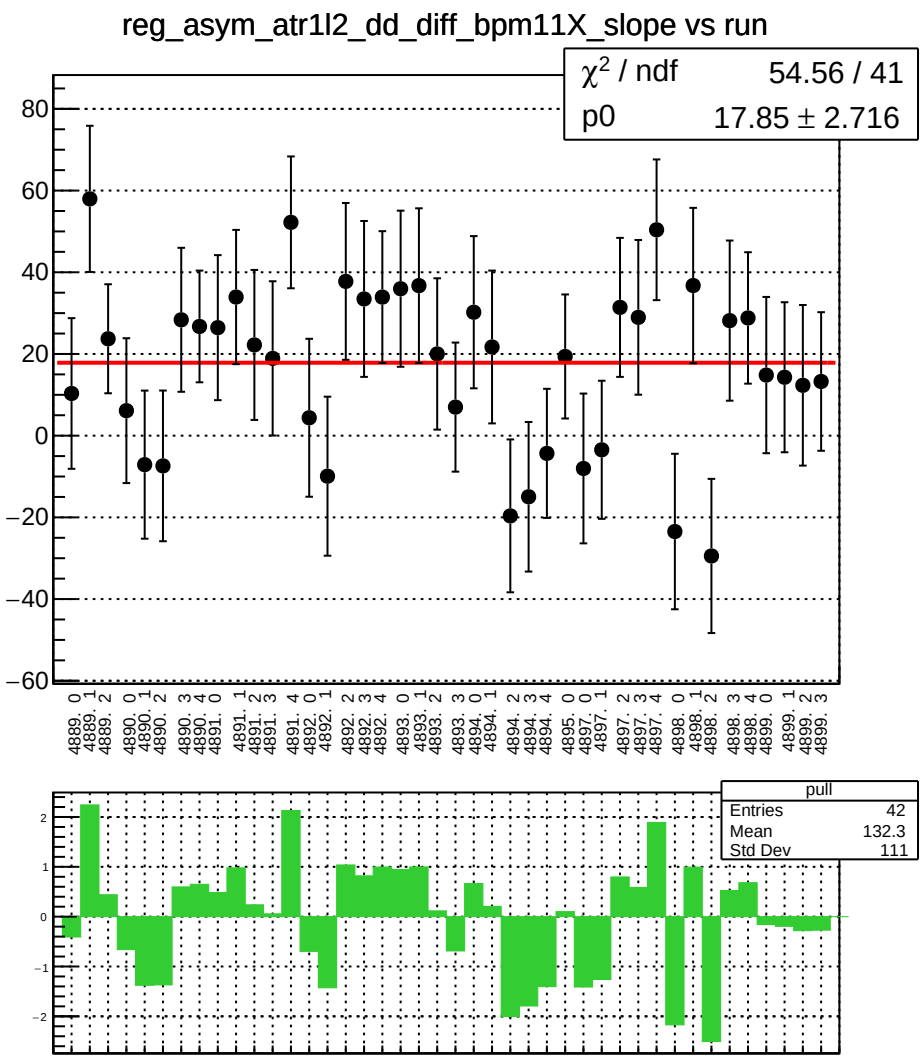

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.71 / 41
p0 −37.73 ± 10.44
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 6.055
Std Dev 8.205
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.007828
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

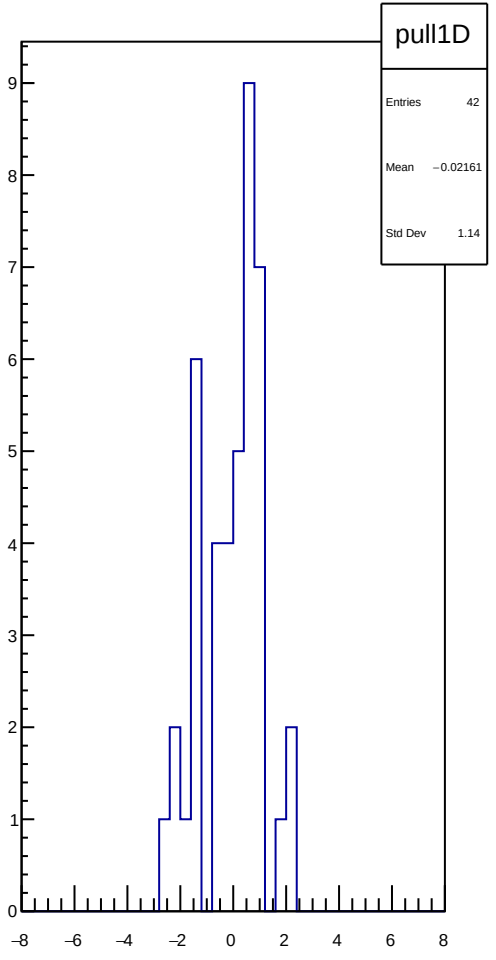

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.37 / 41
p0 6.343 ± 14.17
300
200
100
0
−100
−200
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 403.2
Std Dev 379.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.006984
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

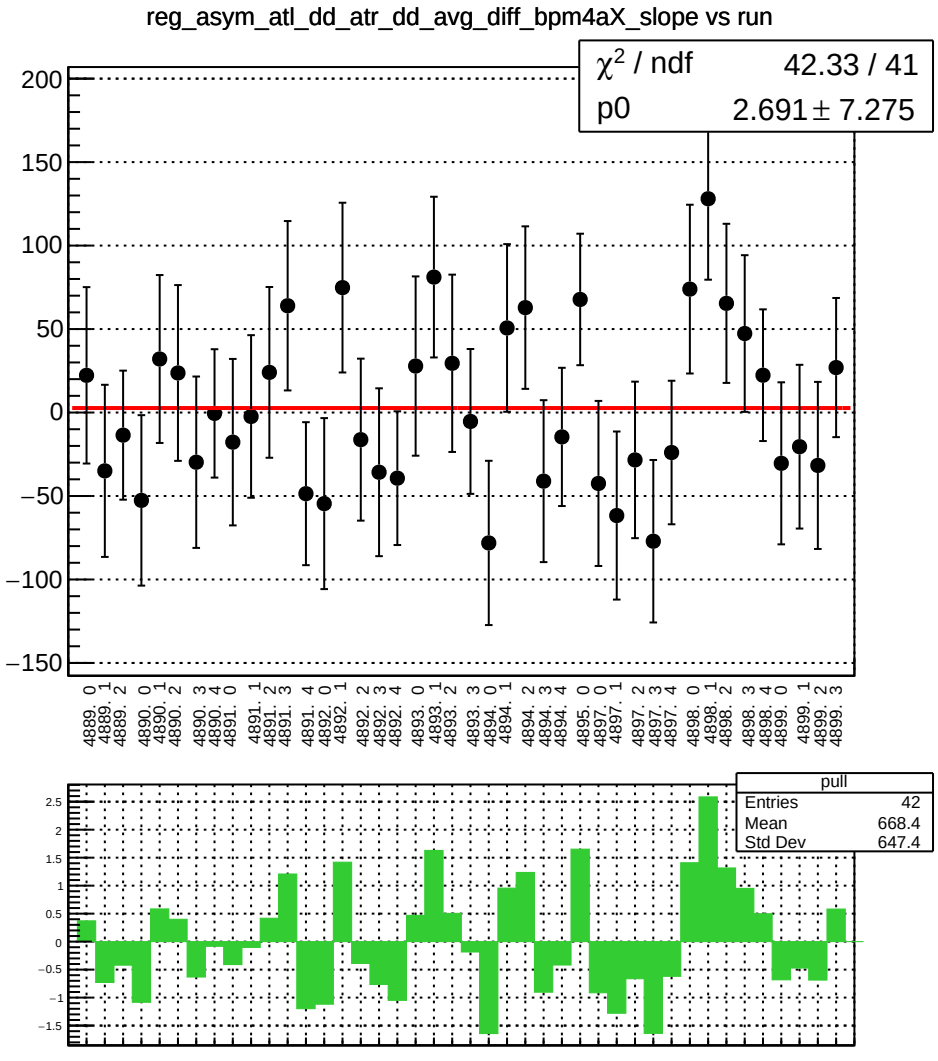

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.88 / 41
p0 61.55 ± 1.964
pull
Entries 42
Mean 127.6
Std Dev 98.4

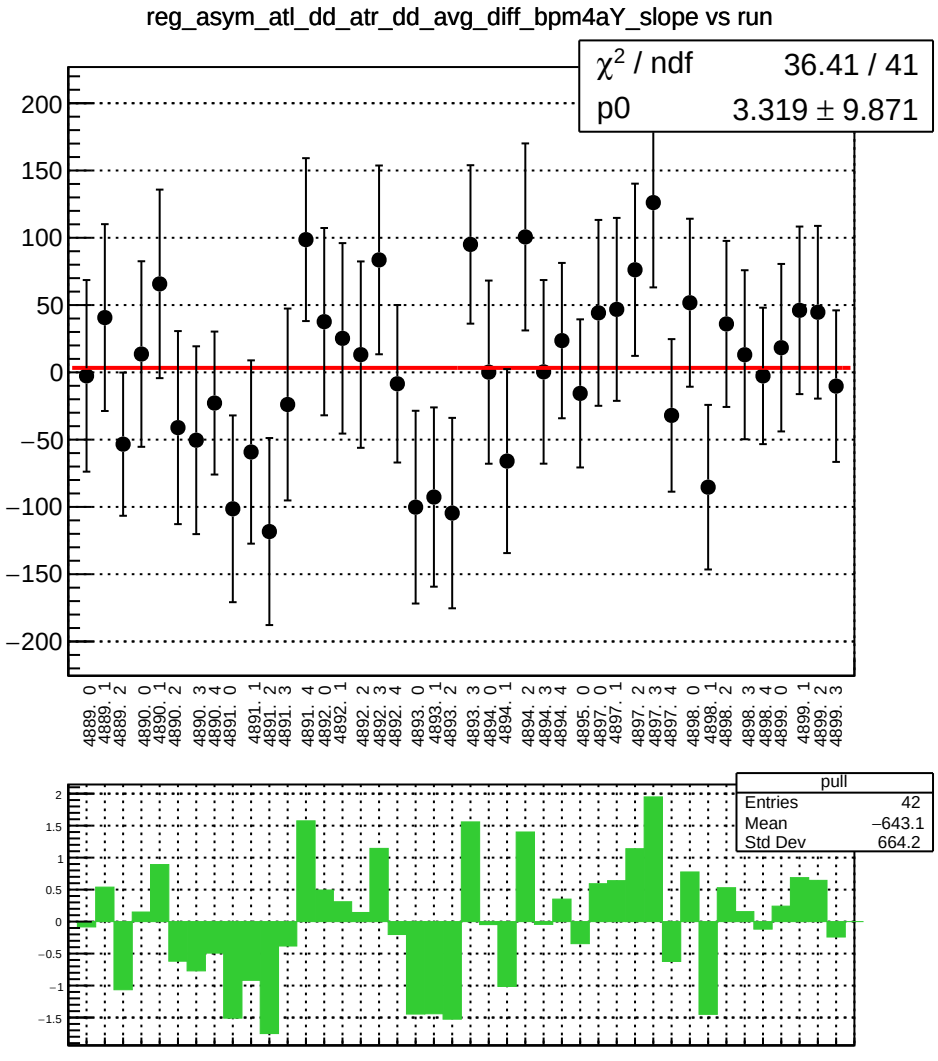

pull1D
Entries 42
Mean −0.007425
Std Dev 0.9622

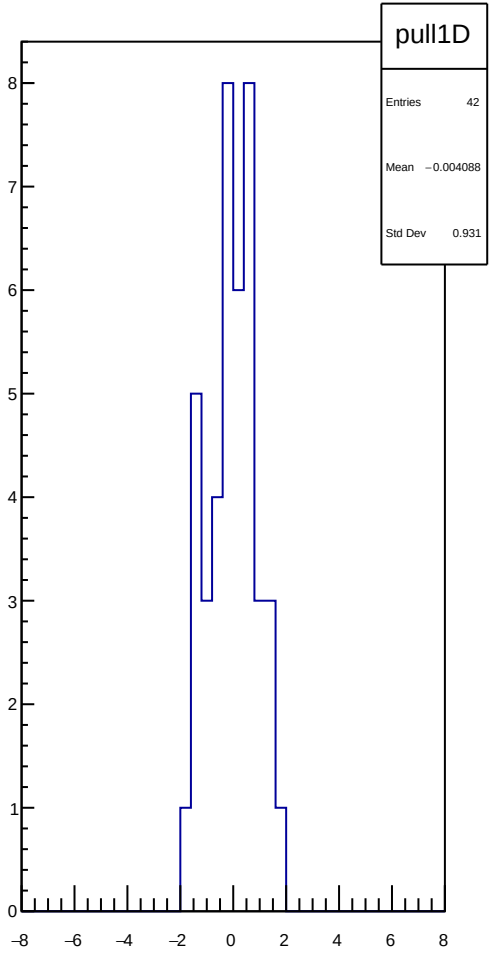

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.98 / 41
p0 2.396 ± 15.76
300
200
100
0
−100
−200
−300
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 675.7
Std Dev 652.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.003455
Std Dev 0.9256
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

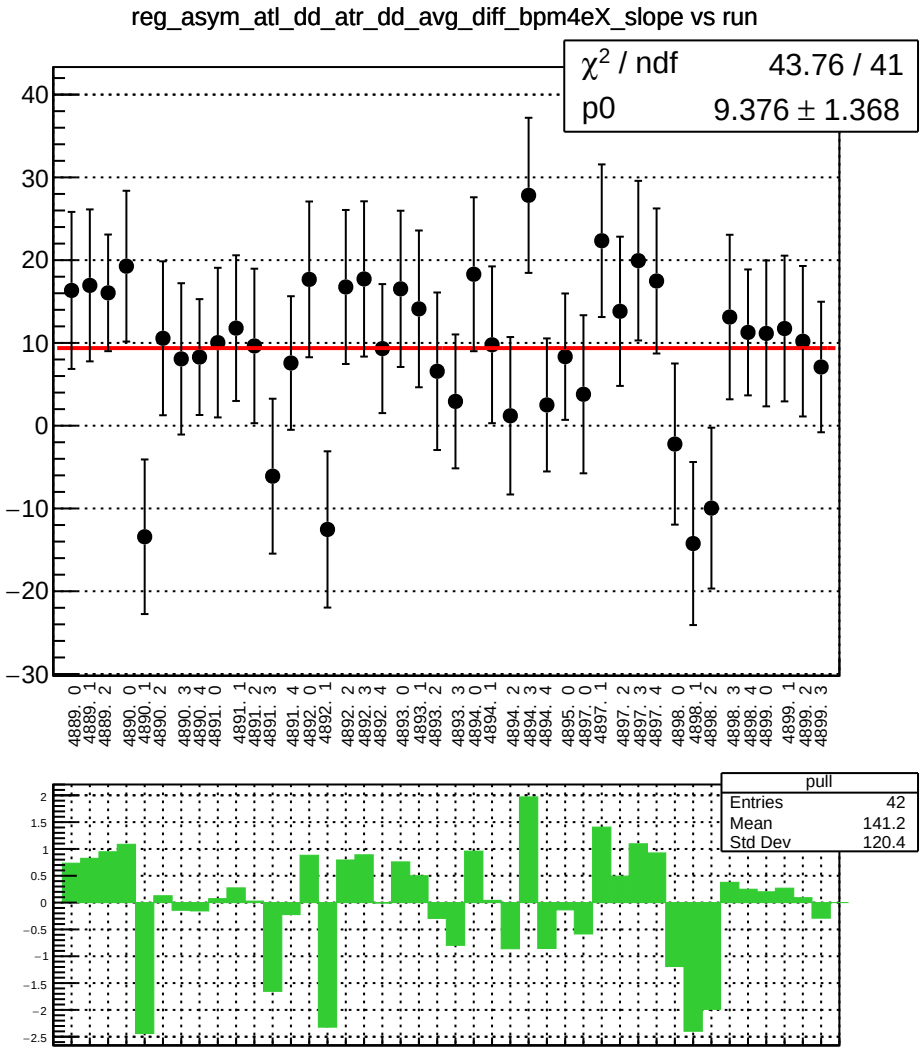

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 54.56 / 41
p0 17.85 ± 2.716
pull
Entries 42
Mean 132.3
Std Dev 111

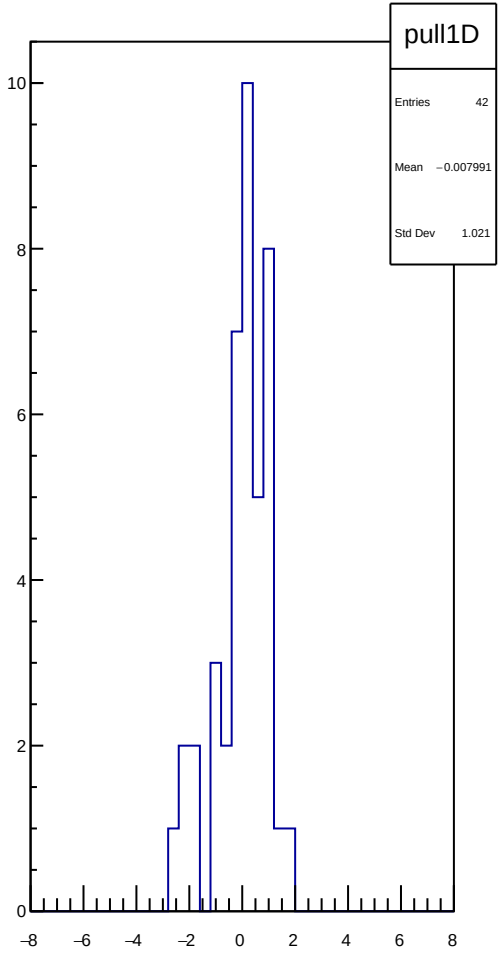

pull1D
Entries 42
Mean −0.02161
Std Dev 1.14

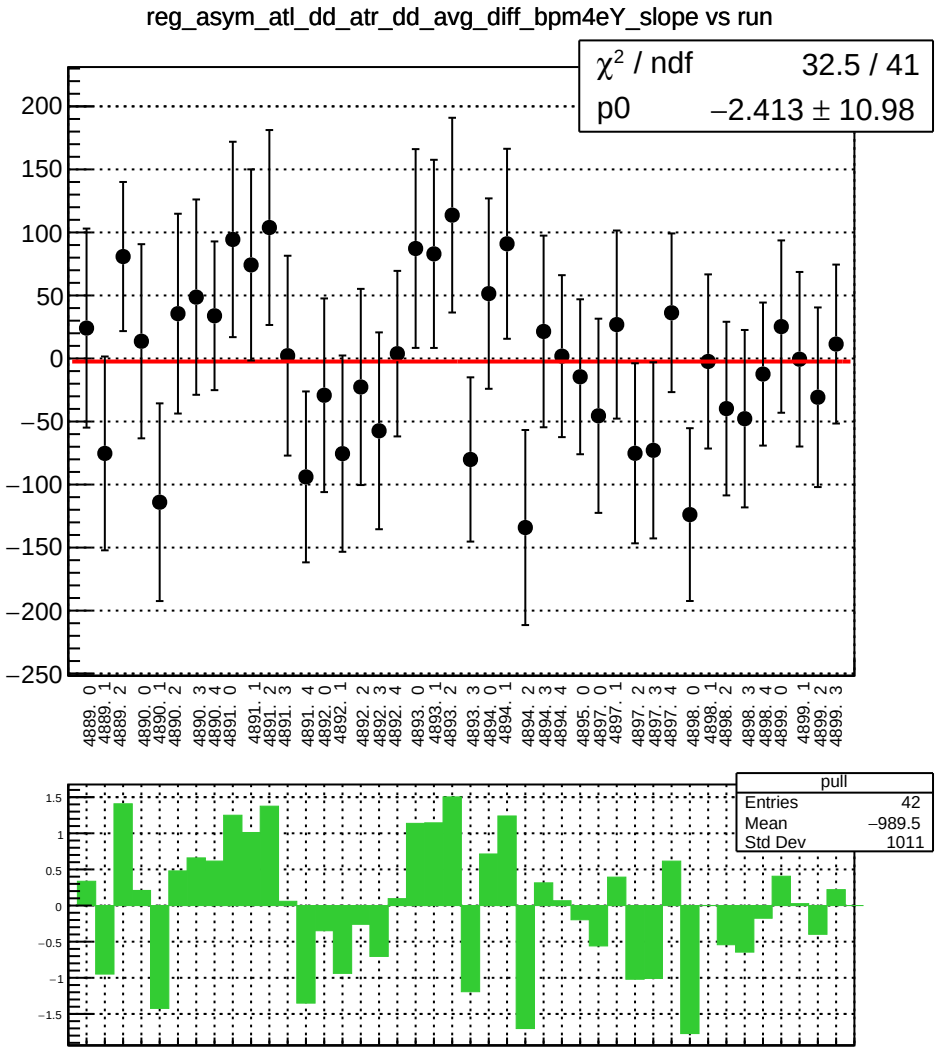

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 42.33 / 41
p0 2.691 ± 7.275
200
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 668.4
Std Dev 647.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.002414
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

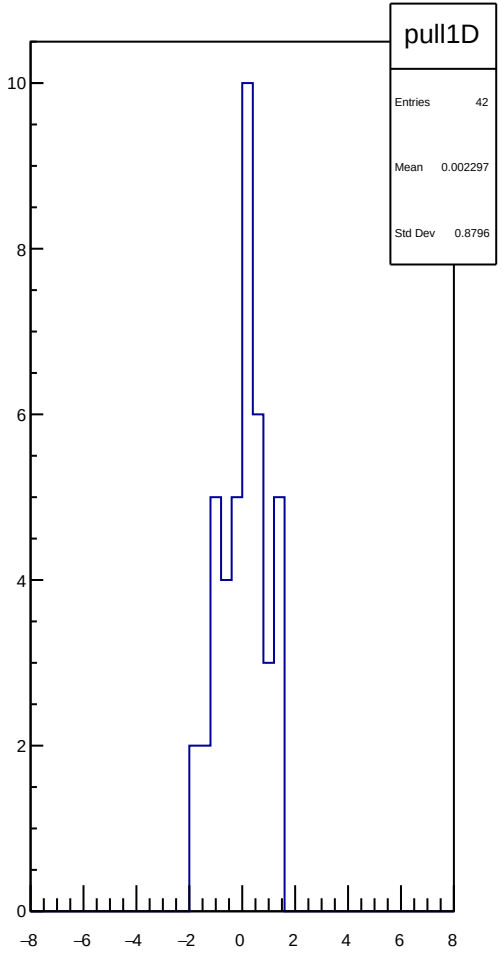

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.41 / 41
p0 3.319 ± 9.871
pull
Entries 42
Mean −643.1
Std Dev 664.2

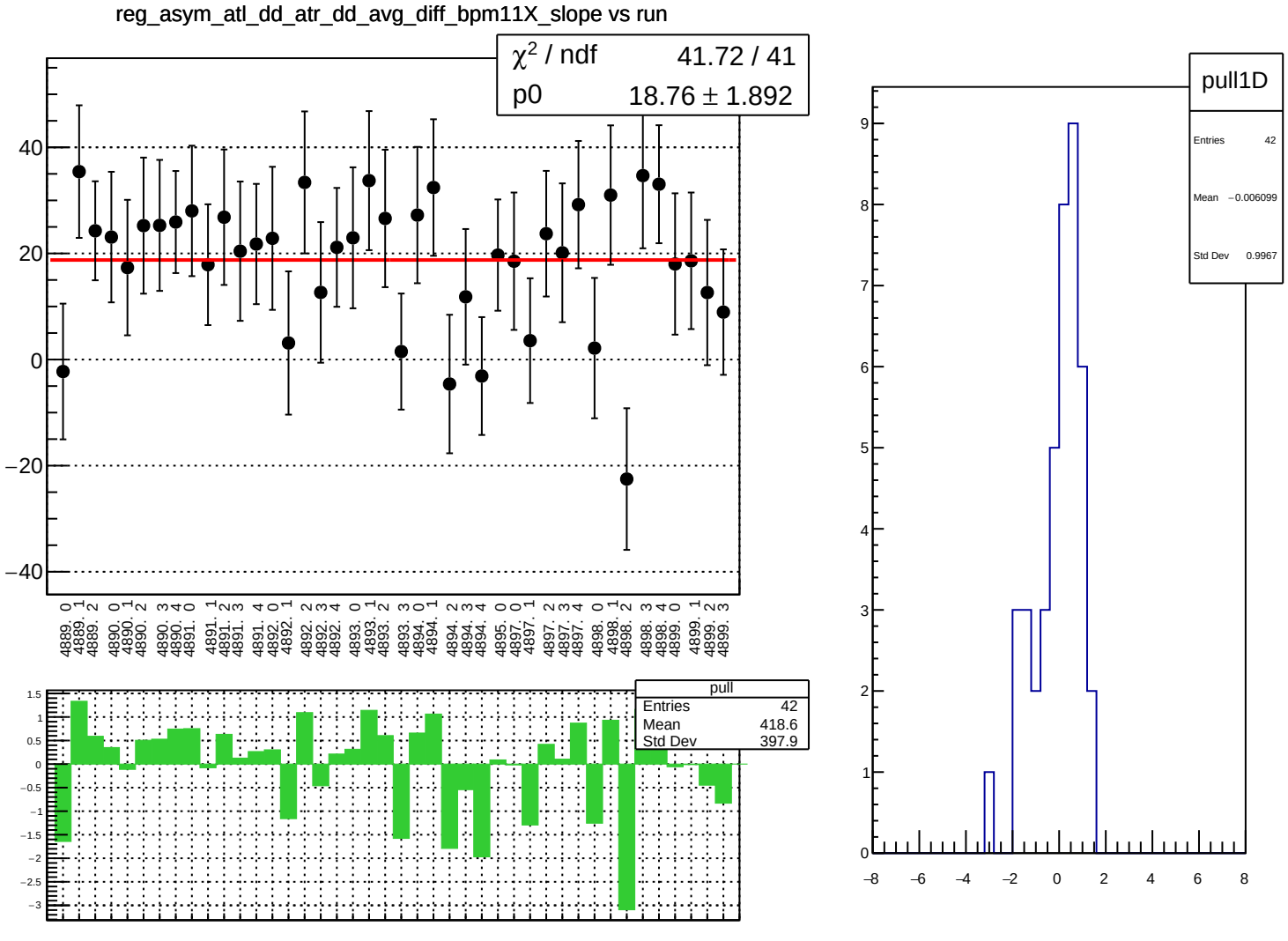

pull1D
Entries 42
Mean −0.004088
Std Dev 0.931

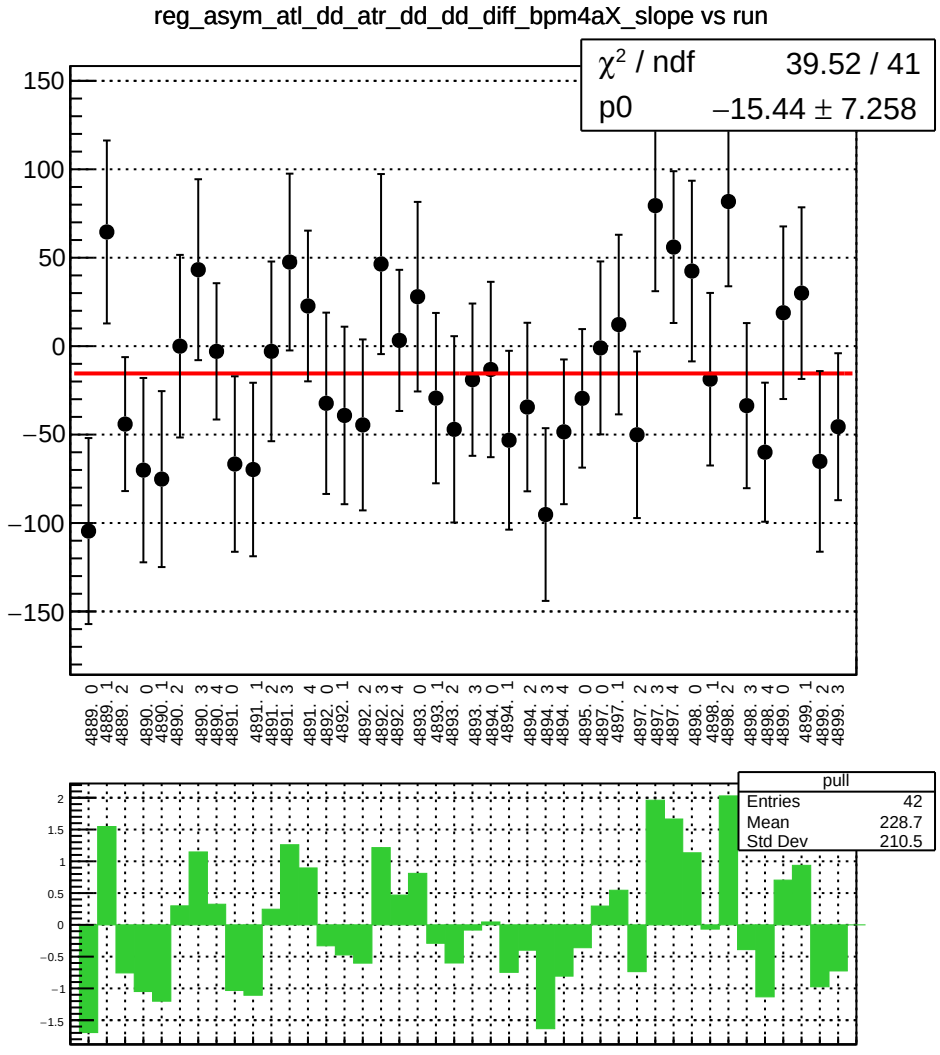

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.76 / 41
p0 9.376 ± 1.368
pull
Entries 42
Mean 141.2
Std Dev 120.4

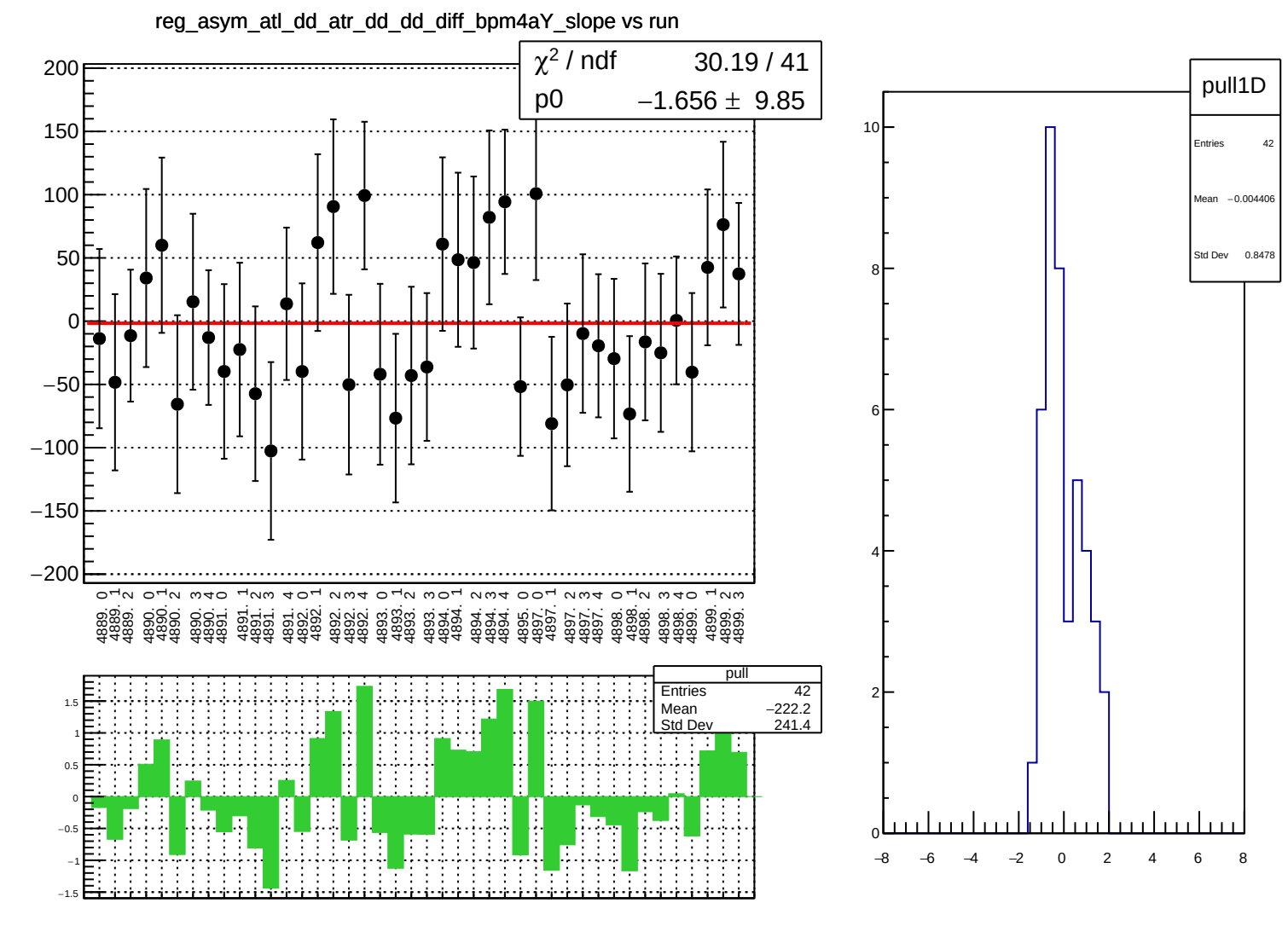

pull1D
Entries 42
Mean −0.007991
Std Dev 1.021

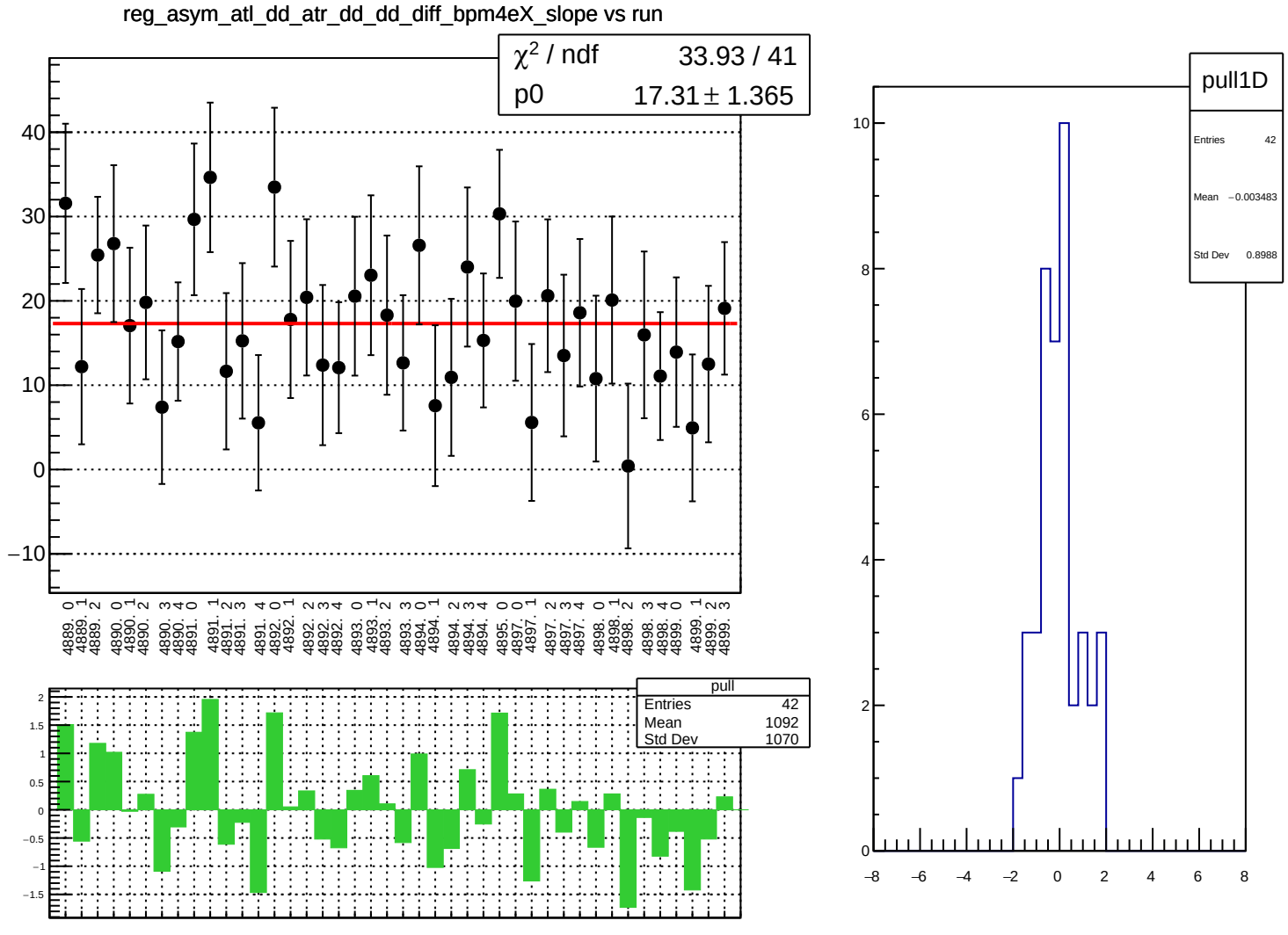

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.5 / 41
p0 −2.413 ± 10.98
pull
Entries 42
Mean −989.5
Std Dev 1011

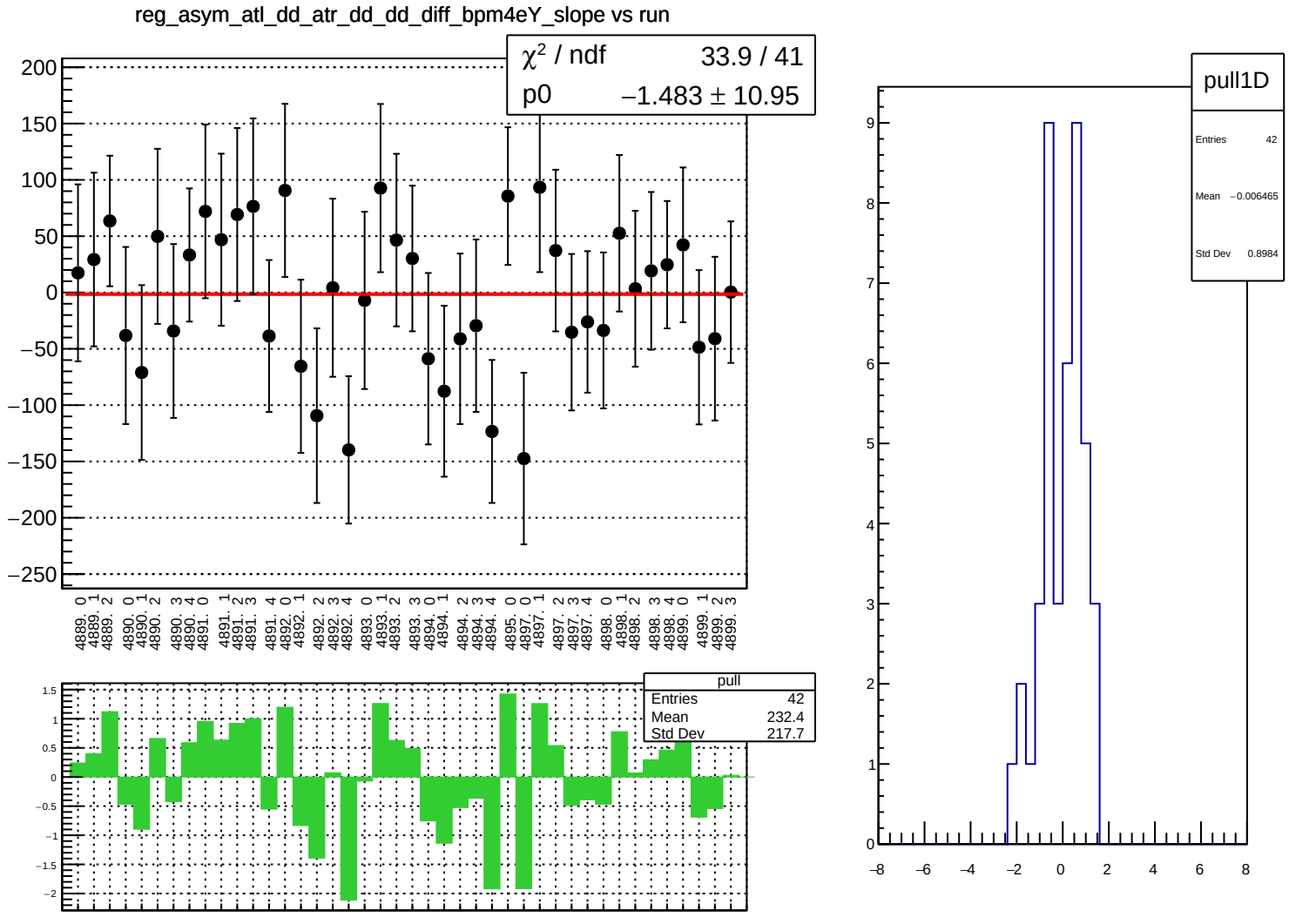

pull1D
Entries 42
Mean 0.002297
Std Dev 0.8796

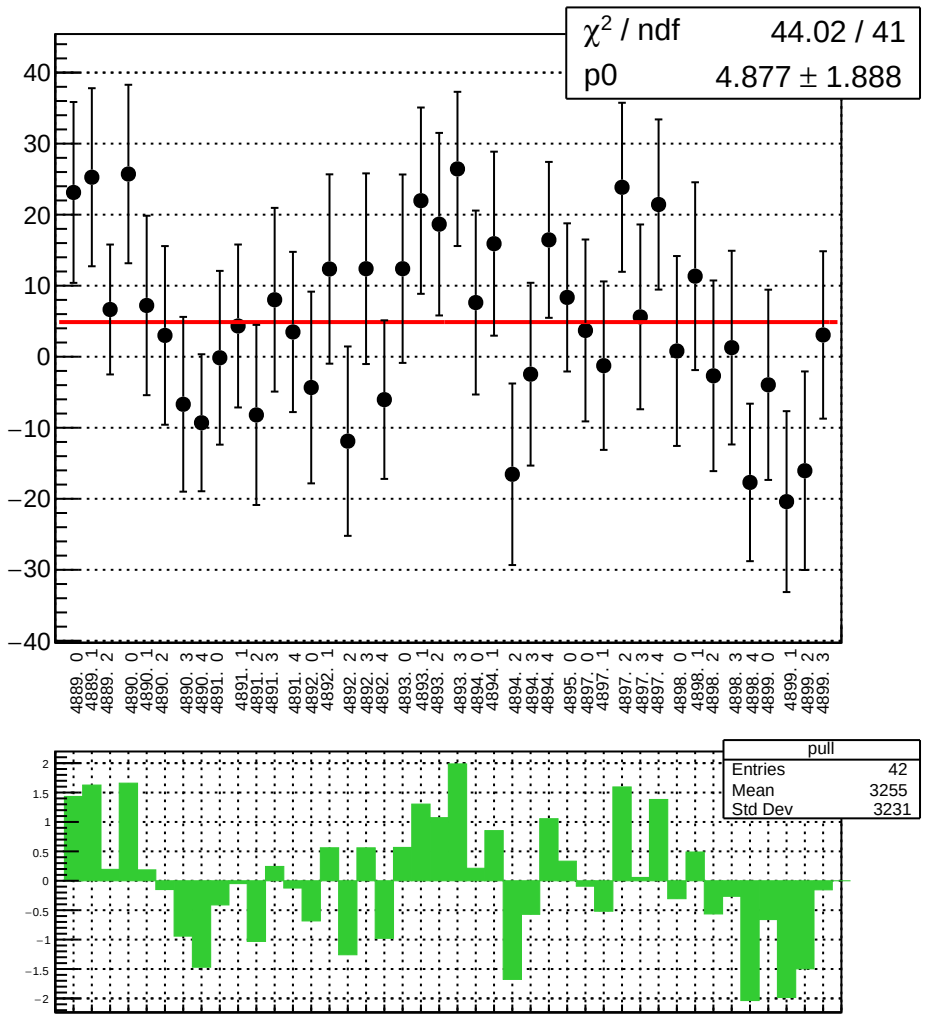

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 41.72 / 41
p0 18.76 ± 1.892
pull
Entries 42
Mean 418.6
Std Dev 397.9
pull1D
Entries 42
Mean −0.006099
Std Dev 0.9967

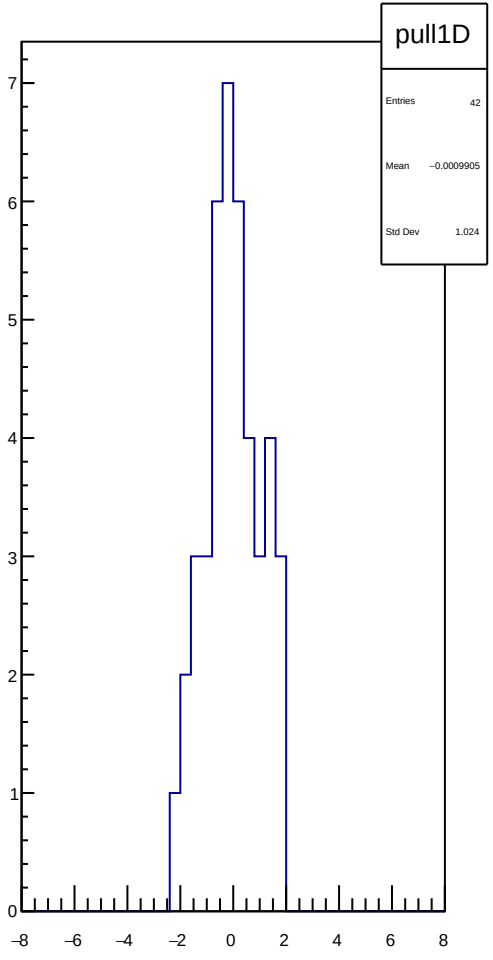

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.52 / 41
p0 −15.44 ± 7.258
150
100
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 228.7
Std Dev 210.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.008139
Std Dev 0.9701
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

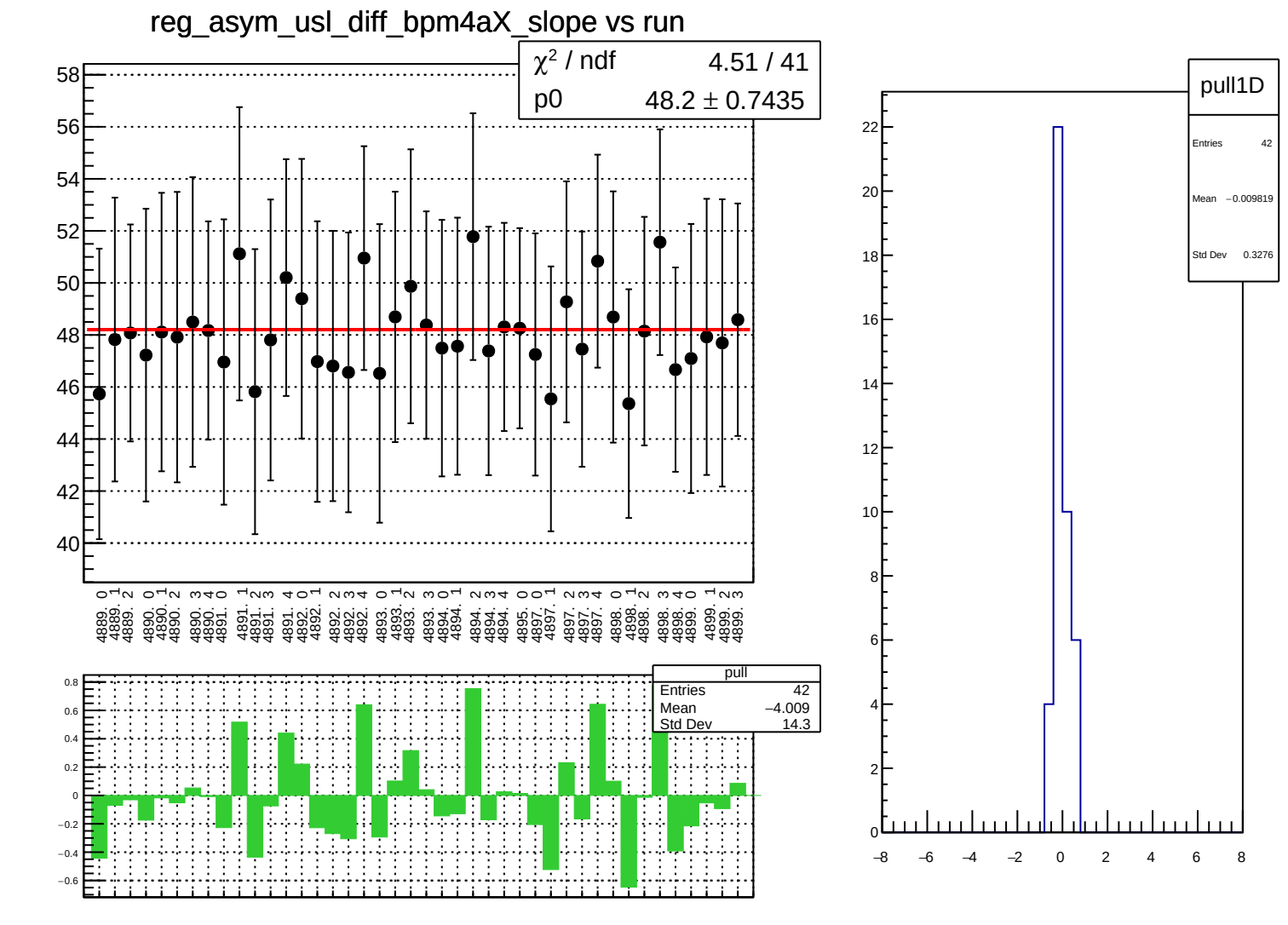

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.19 / 41
p0 −1.656 ± 9.85
pull
Entries 42
Mean −222.2
Std Dev 241.4
pull1D
Entries 42
Mean −0.004406
Std Dev 0.8478

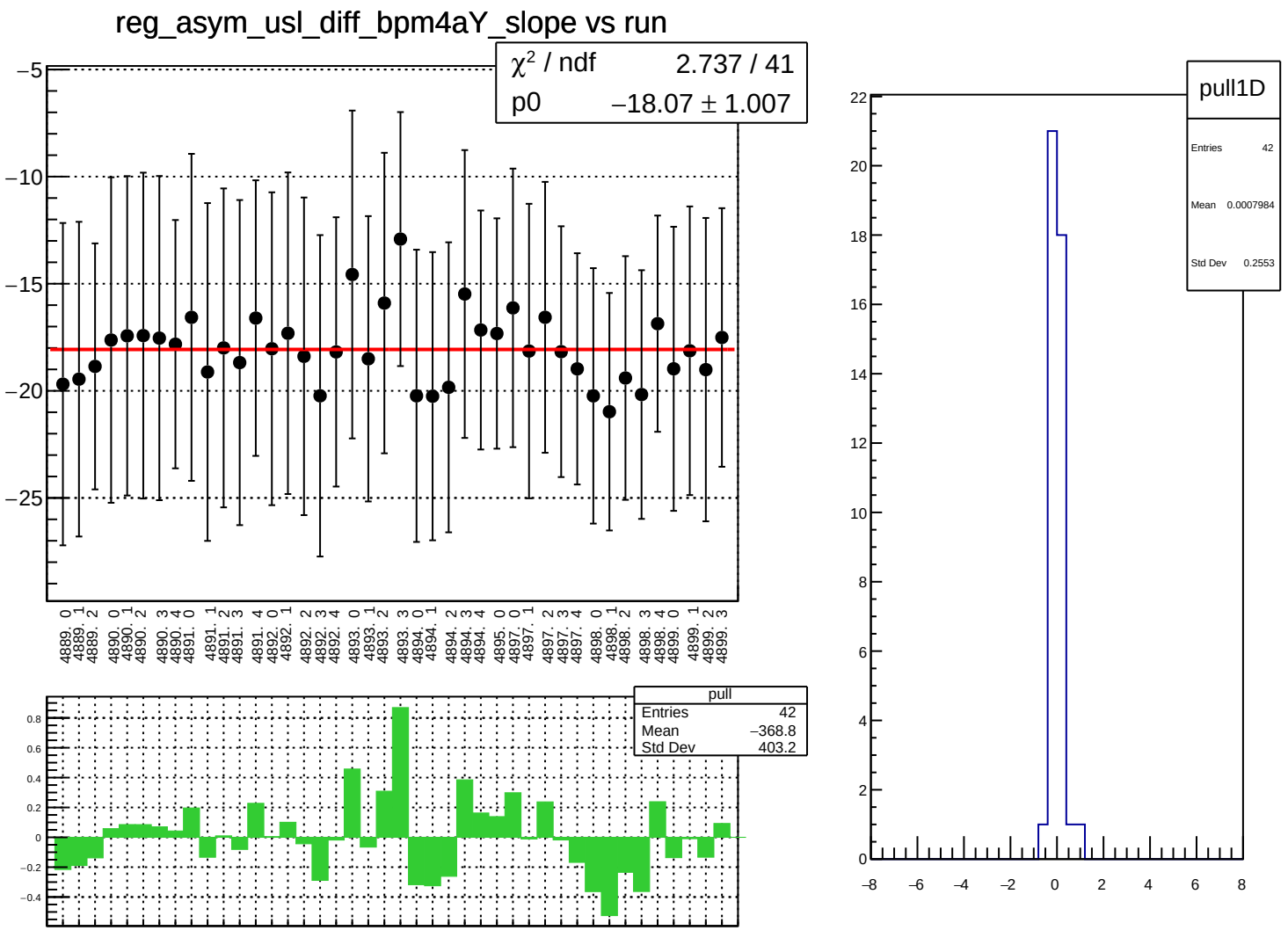

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.93 / 41
p0 17.31 ± 1.365
pull
Entries 42
Mean 1092
Std Dev 1070
pull1D
Entries 42
Mean −0.003483
Std Dev 0.8988

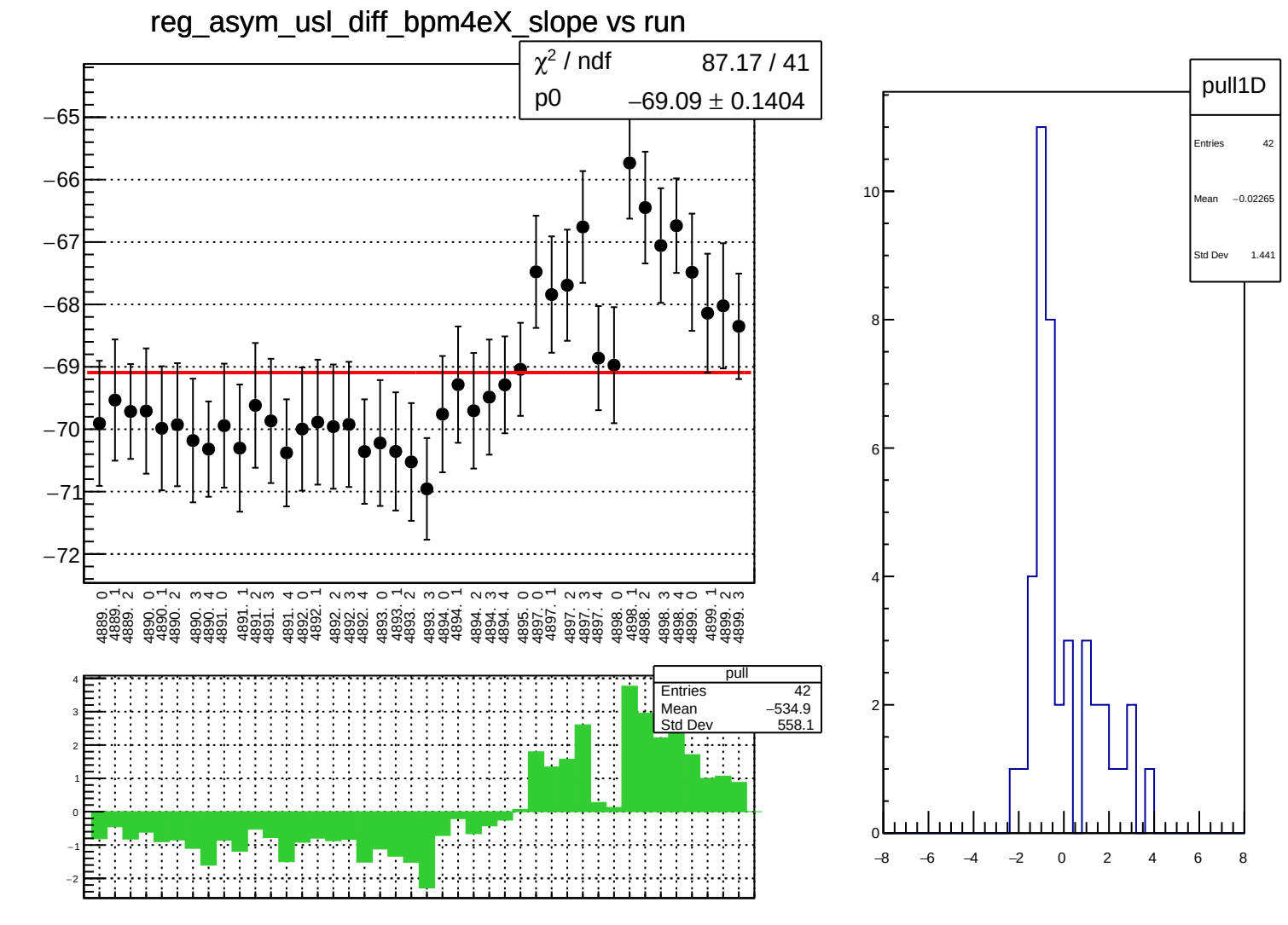

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.9 / 41
p0 −1.483 ± 10.95
pull
Entries 42
Mean 232.4
Std Dev 217.7
pull1D
Entries 42
Mean −0.006465
Std Dev 0.8984

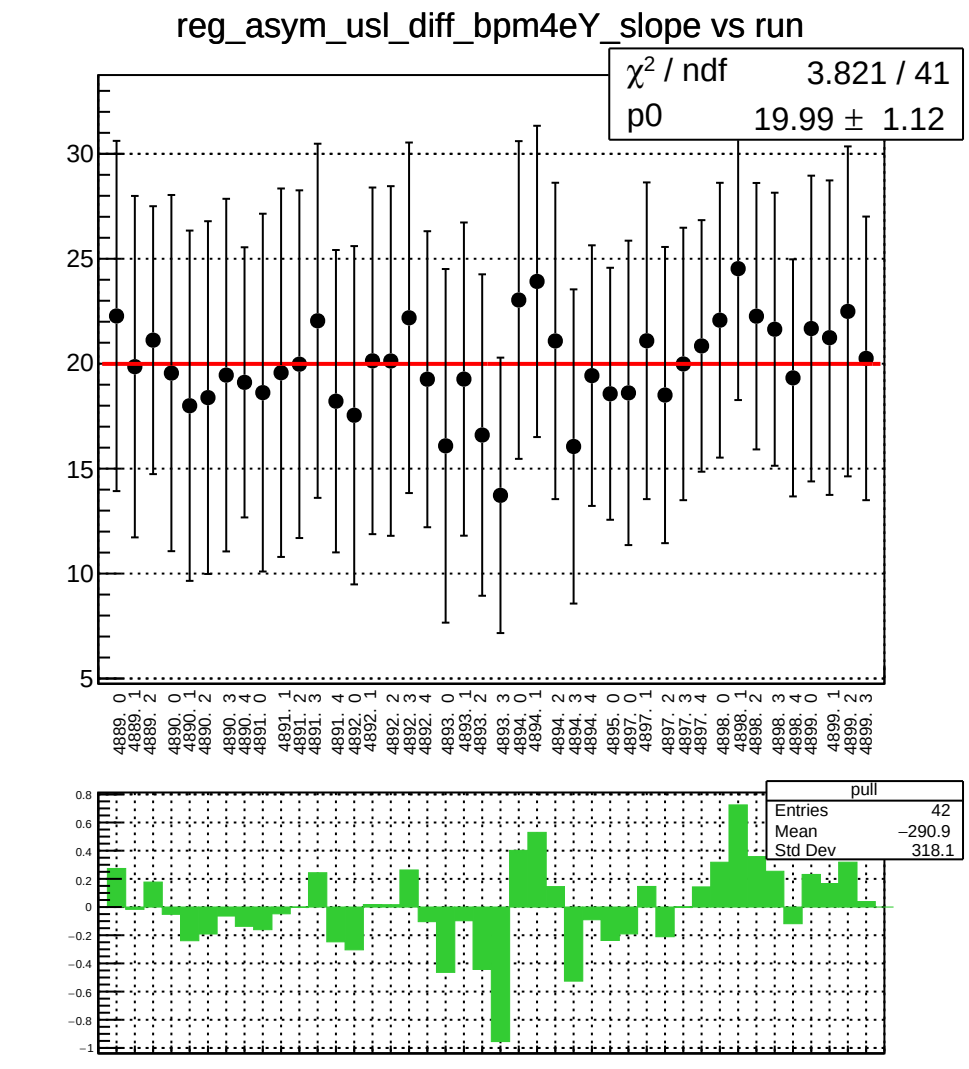

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 44.02 / 41
p0 4.877 ± 1.888
pull
Entries 42
Mean 3255
Std Dev 3231

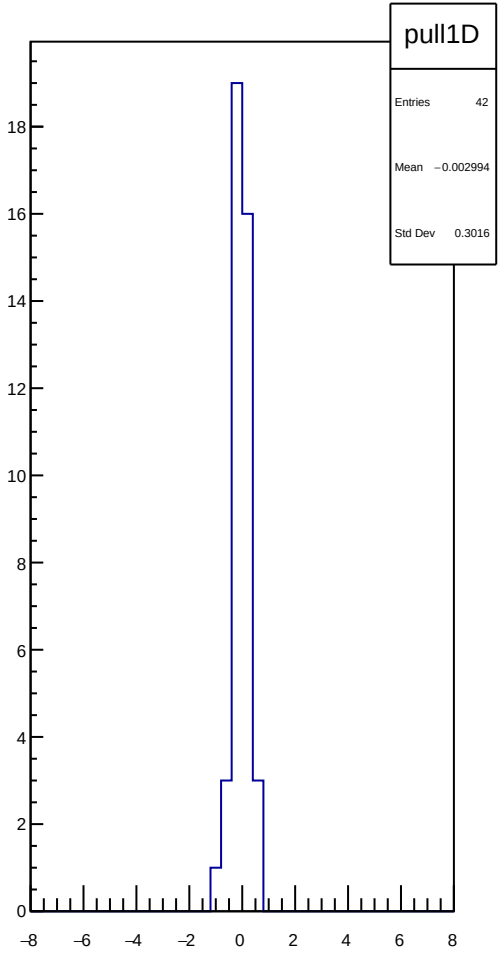

pull1D
Entries 42
Mean −0.0009905
Std Dev 1.024

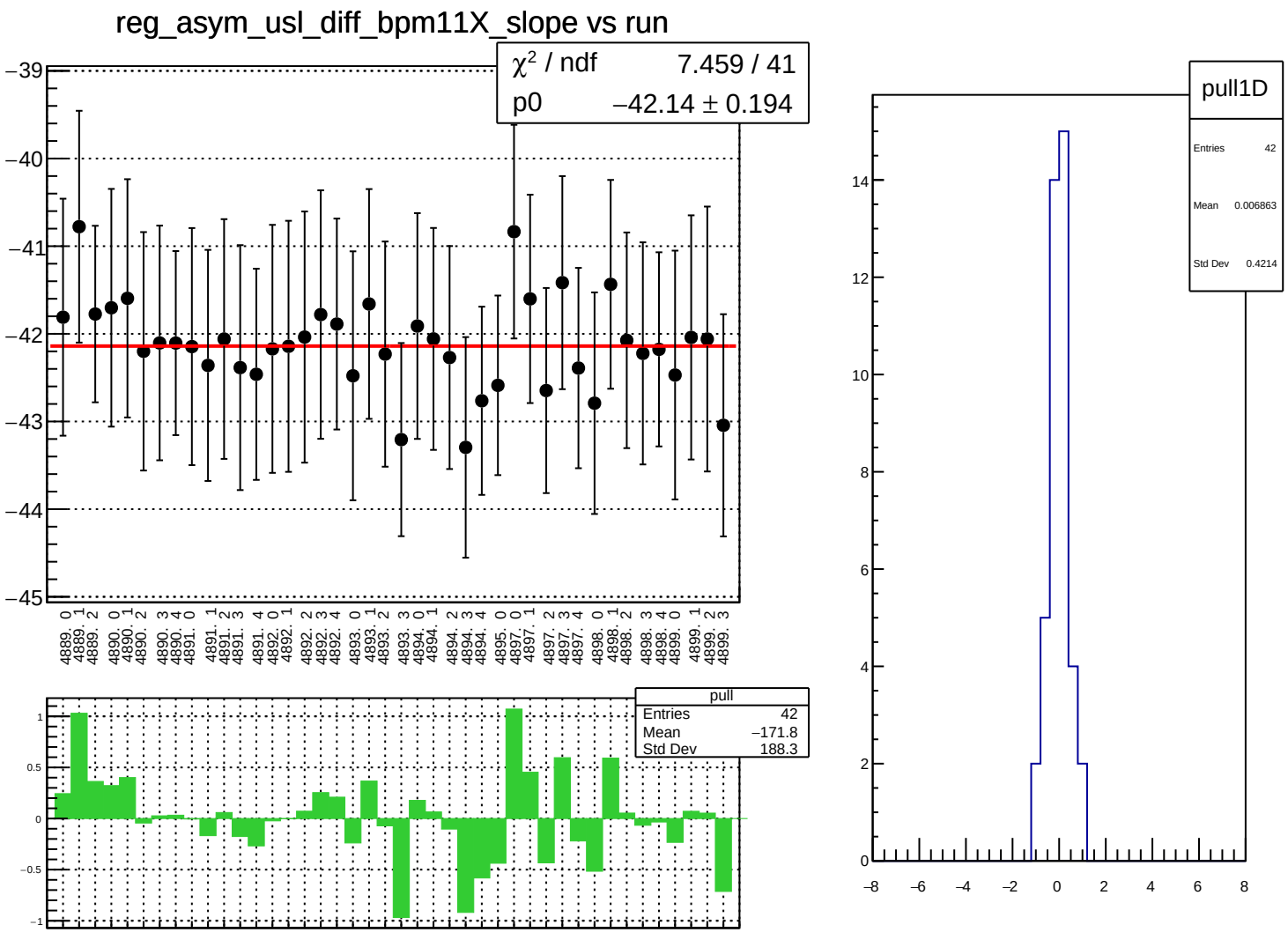

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 4.51 / 41
p0 48.2 ± 0.7435
pull
Entries 42
Mean −4.009
Std Dev 14.3
pull1D
Entries 42
Mean −0.009819
Std Dev 0.3276

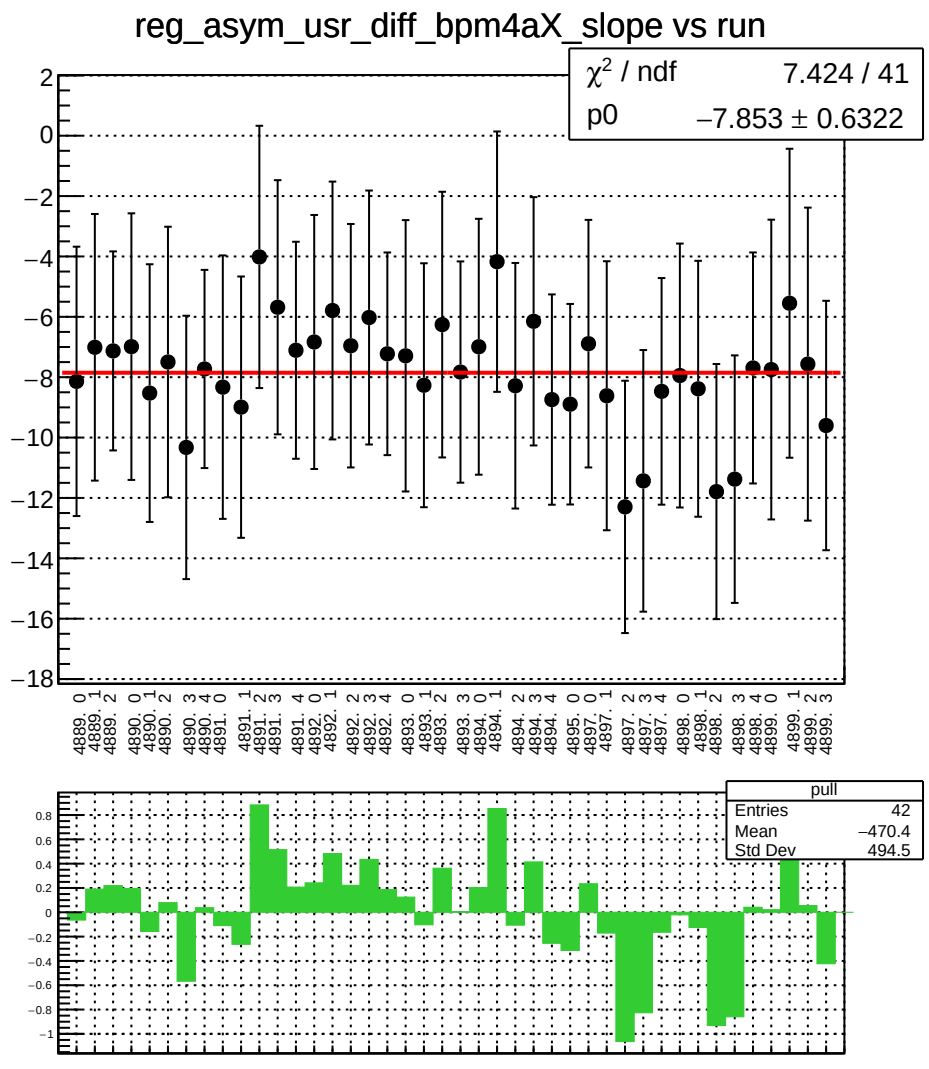

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.737 / 41
p0 −18.07 ± 1.007
−5
−10
−15
−20
−25
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −368.8
Std Dev 403.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 42
Mean 0.0007984
Std Dev 0.2553
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

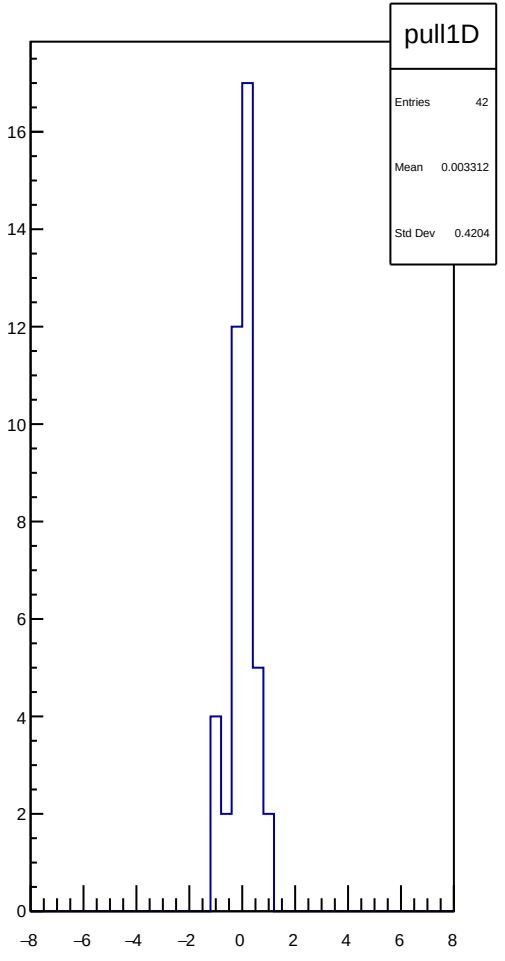

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 87.17 / 41
p0 −69.09 ± 0.1404
pull
Entries 42
Mean −534.9
Std Dev 558.1
pull1D
Entries 42
Mean −0.02265
Std Dev 1.441

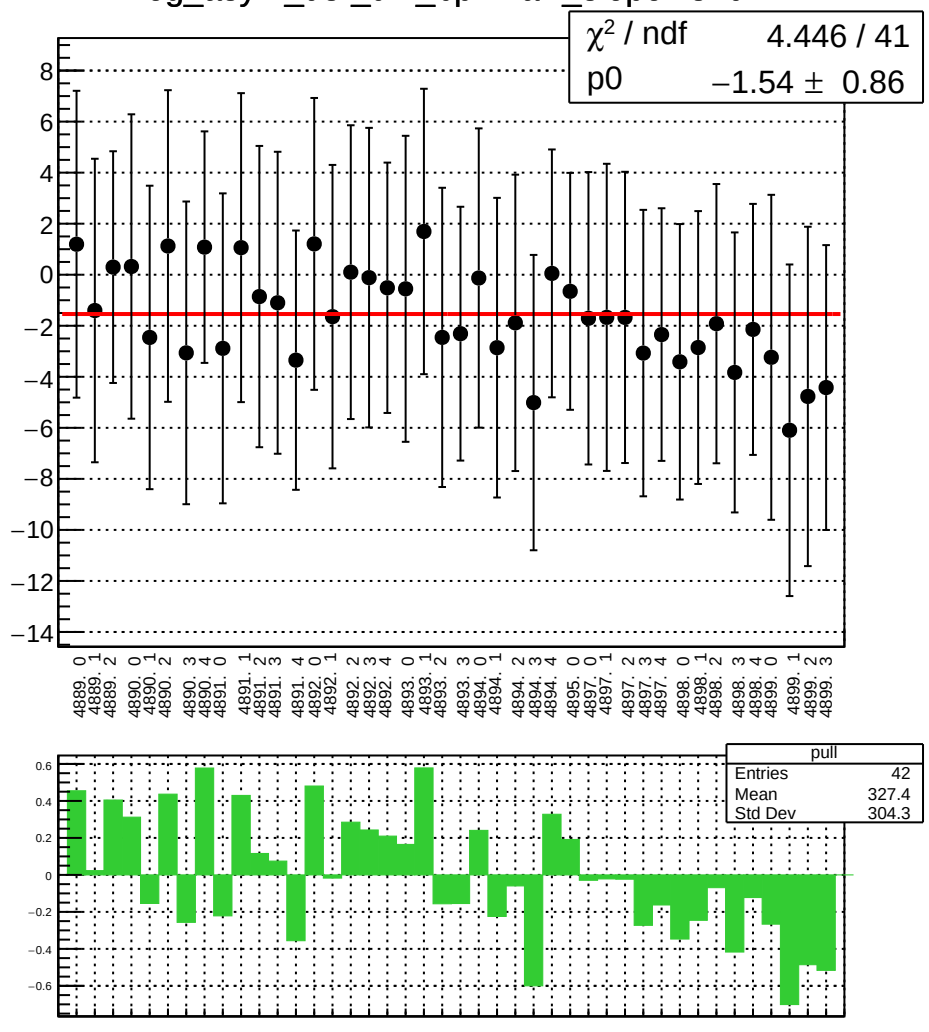

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.821 / 41
p0 19.99 ± 1.12
pull
Entries 42
Mean −290.9
Std Dev 318.1

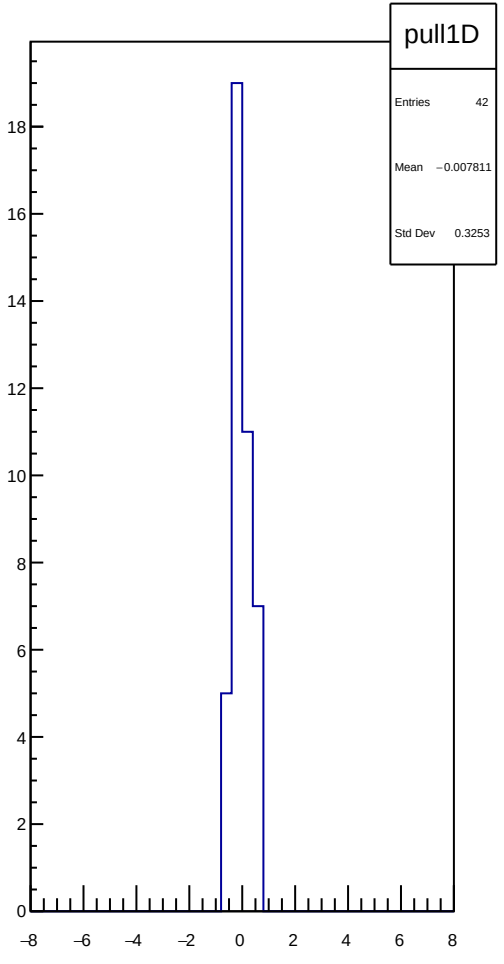

pull1D
Entries 42
Mean −0.002994
Std Dev 0.3016

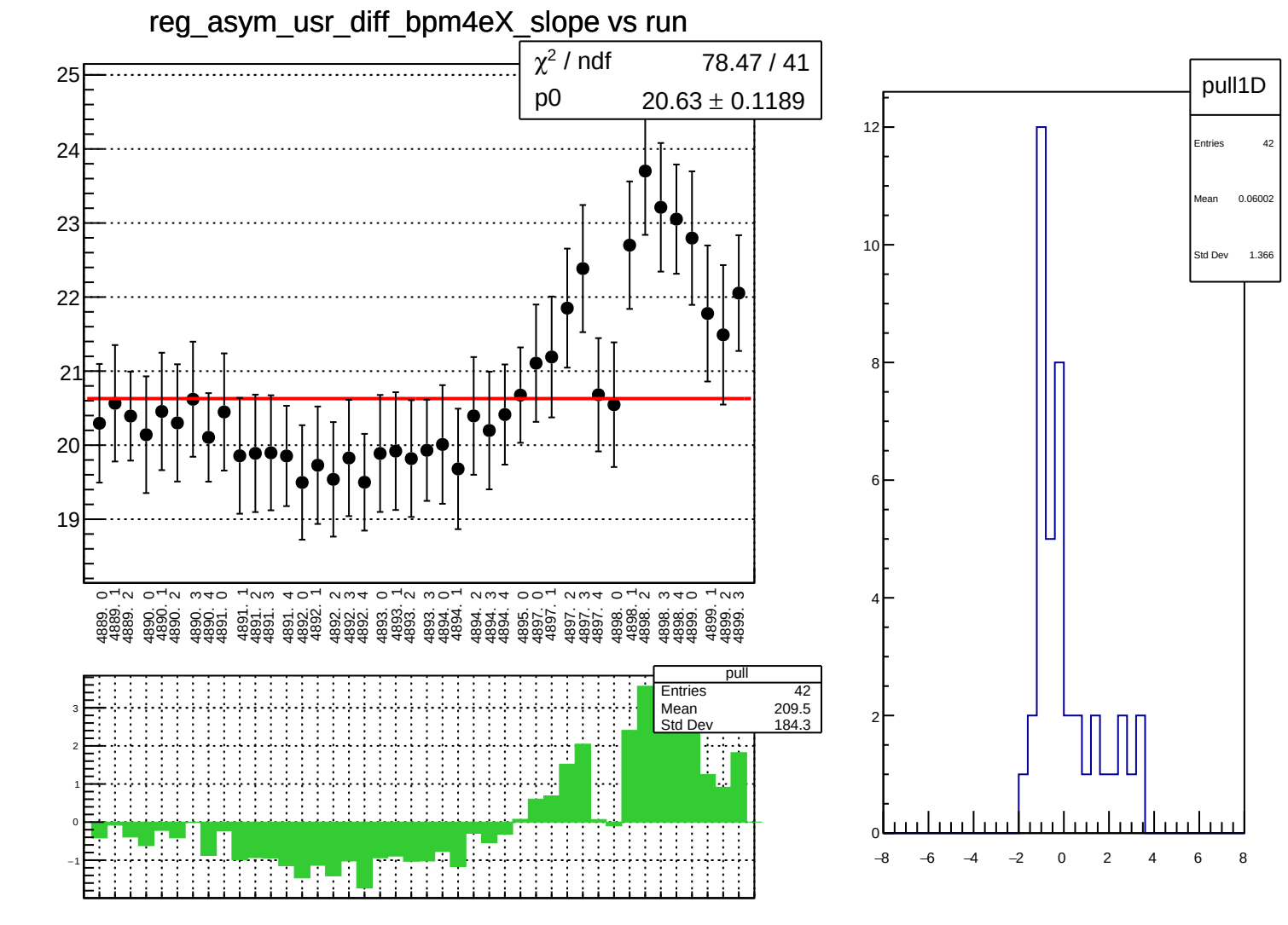

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 7.459 / 41
p0 −42.14 ± 0.194
pull
Entries 42
Mean −171.8
Std Dev 188.3
pull1D
Entries 42
Mean 0.006863
Std Dev 0.4214

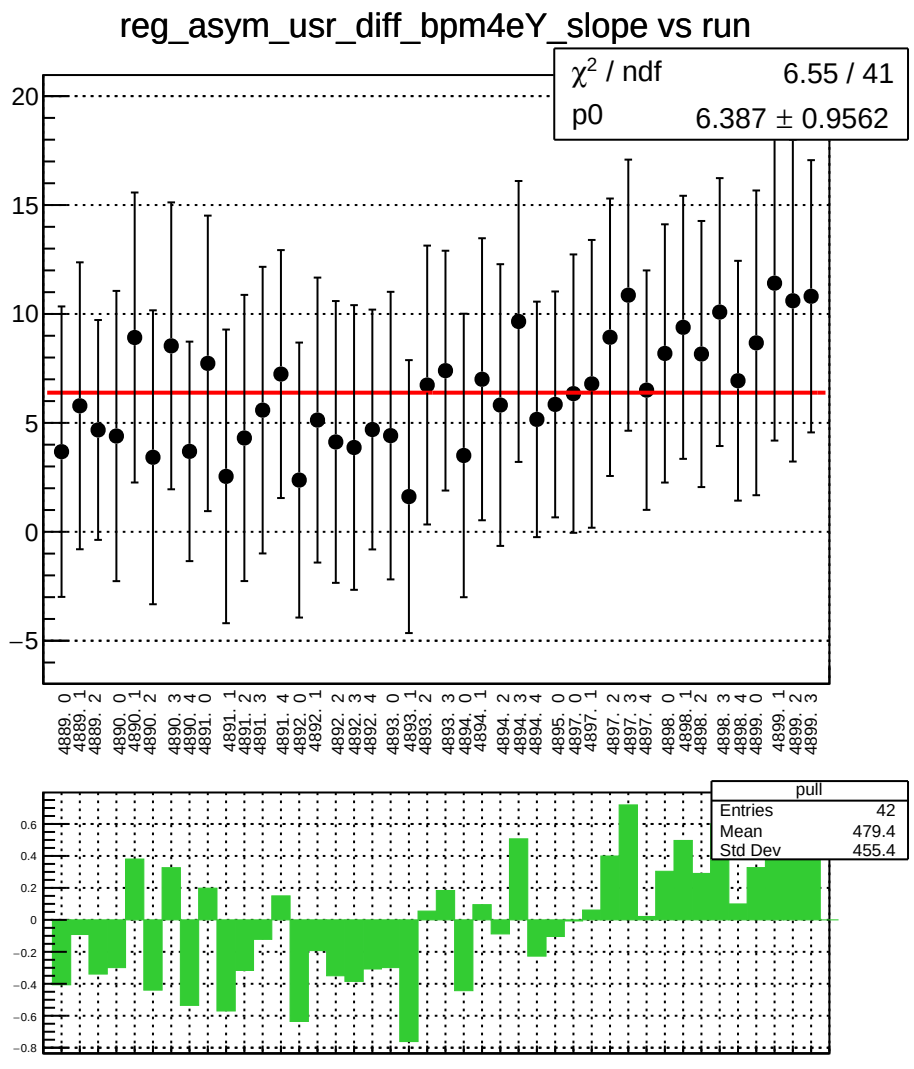

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 7.424 / 41
p0 −7.853 ± 0.6322
pull
Entries 42
Mean −470.4
Std Dev 494.5

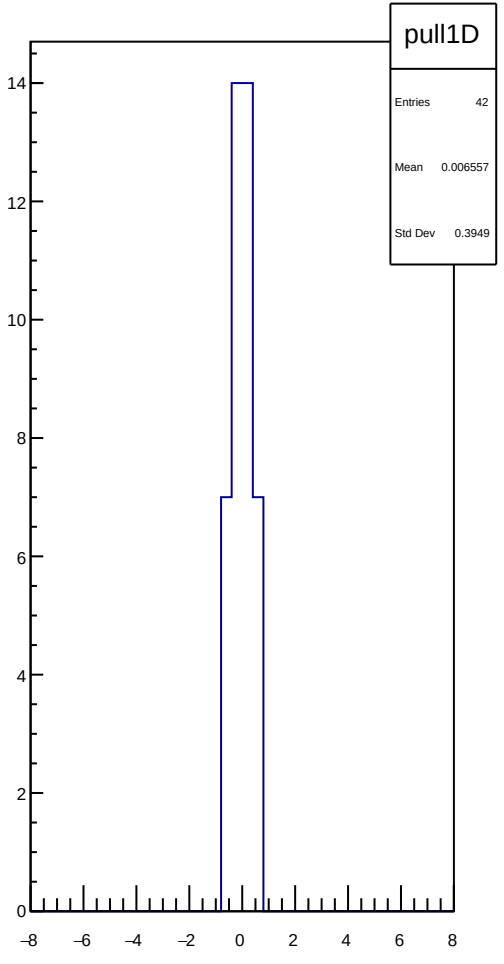

pull1D
Entries 42
Mean 0.003312
Std Dev 0.4204

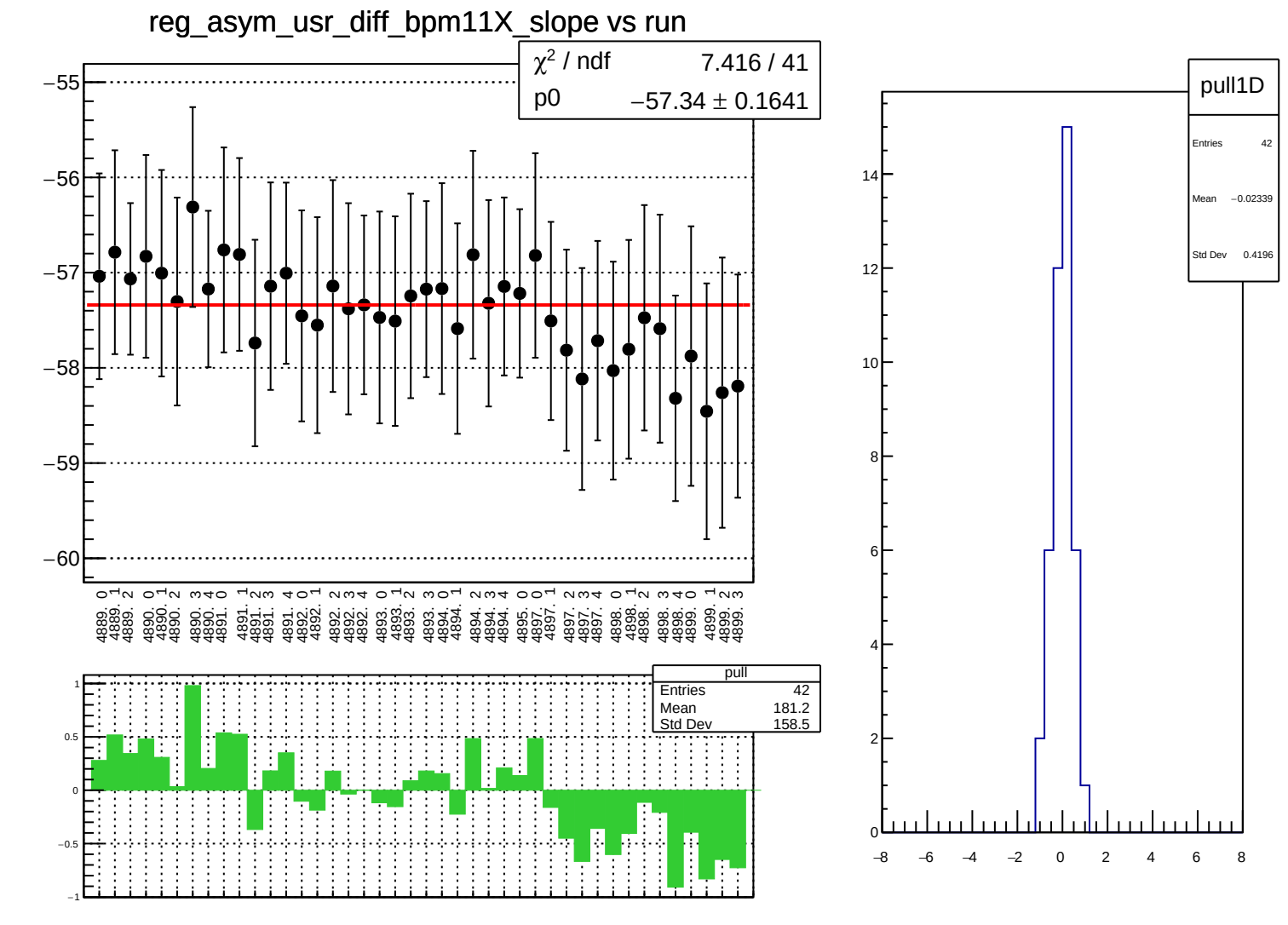

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.446 / 41
p0 −1.54 ± 0.86
pull
Entries 42
Mean 327.4
Std Dev 304.3

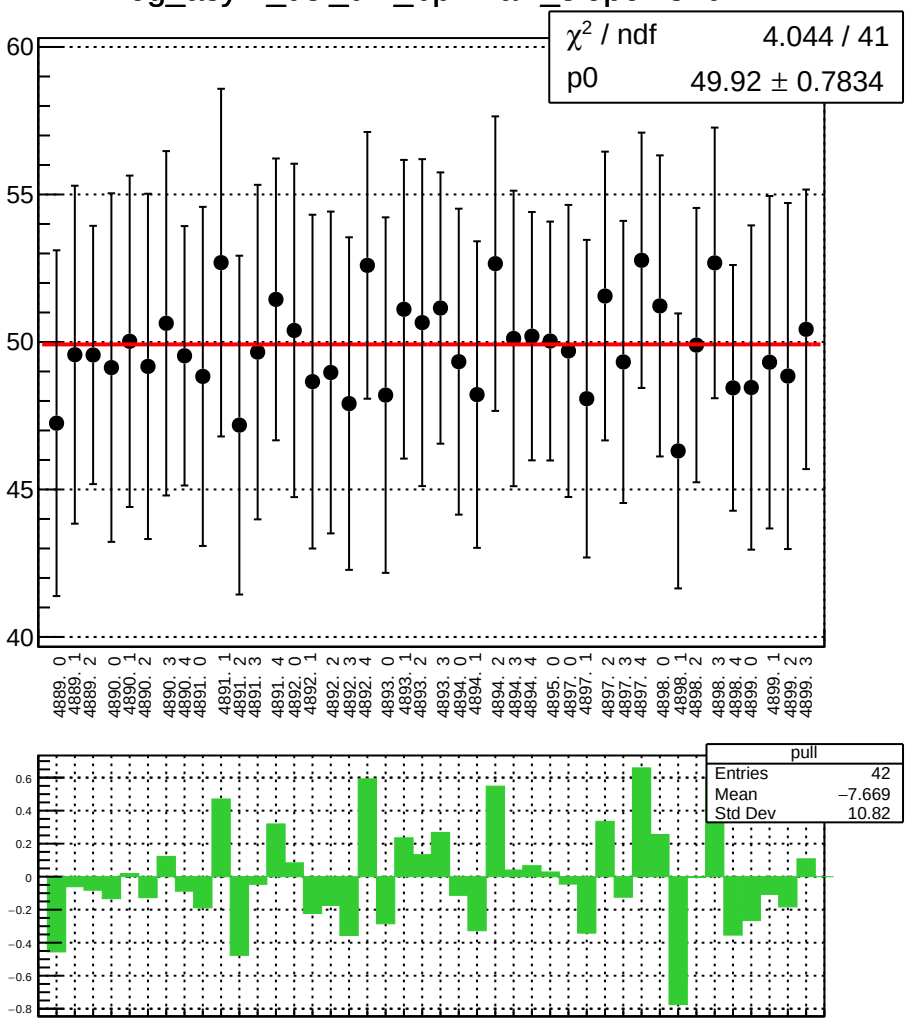

pull1D
Entries 42
Mean −0.007811
Std Dev 0.3253

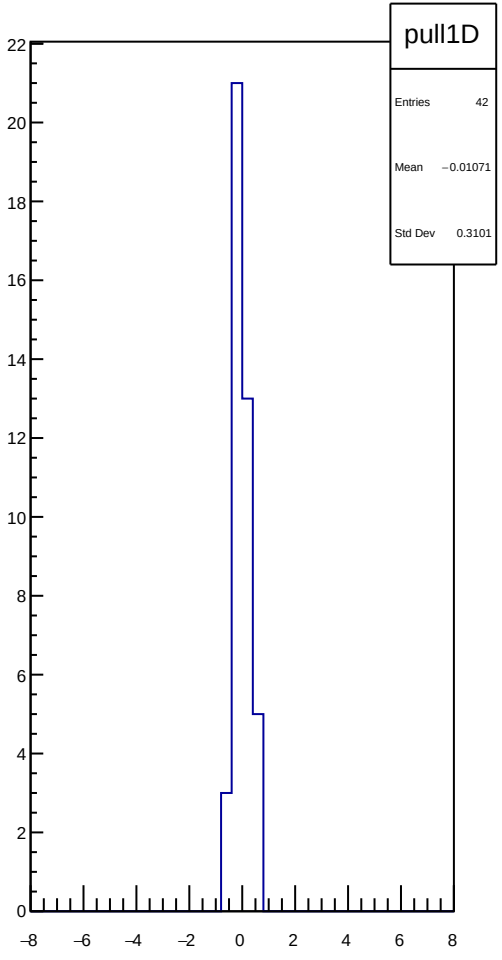

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 78.47 / 41
p0 20.63 ± 0.1189
pull
Entries 42
Mean 209.5
Std Dev 184.3
pull1D
Entries 42
Mean 0.06002
Std Dev 1.366

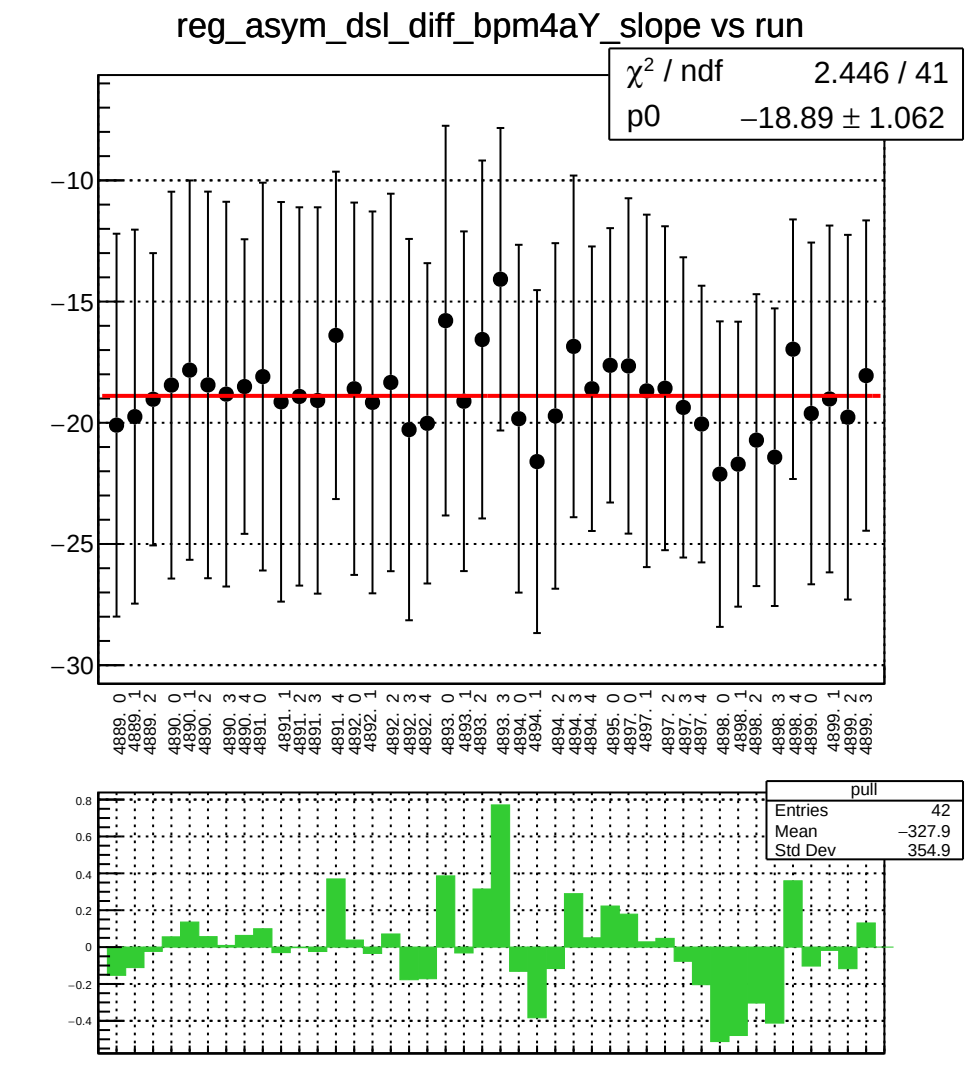

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 6.55 / 41
p0 6.387 ± 0.9562
pull
Entries 42
Mean 479.4
Std Dev 455.4

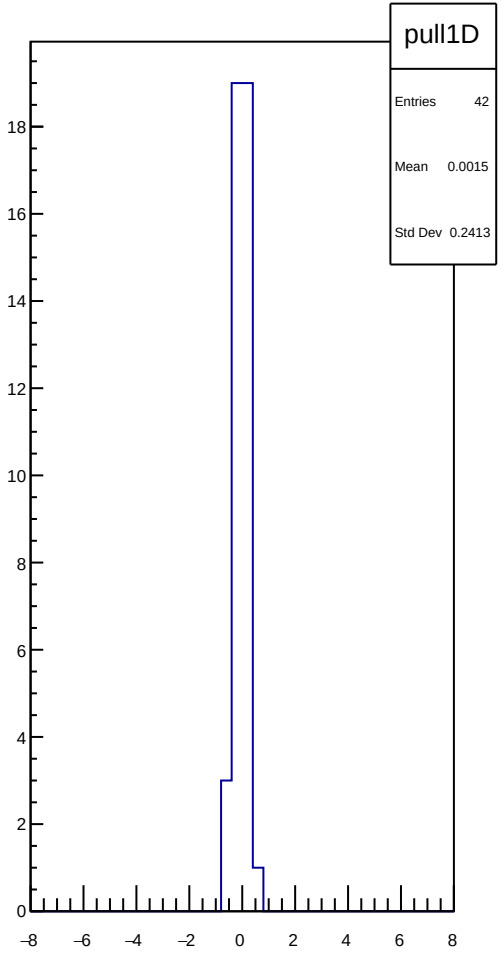

pull1D
Entries 42
Mean 0.006557
Std Dev 0.3949

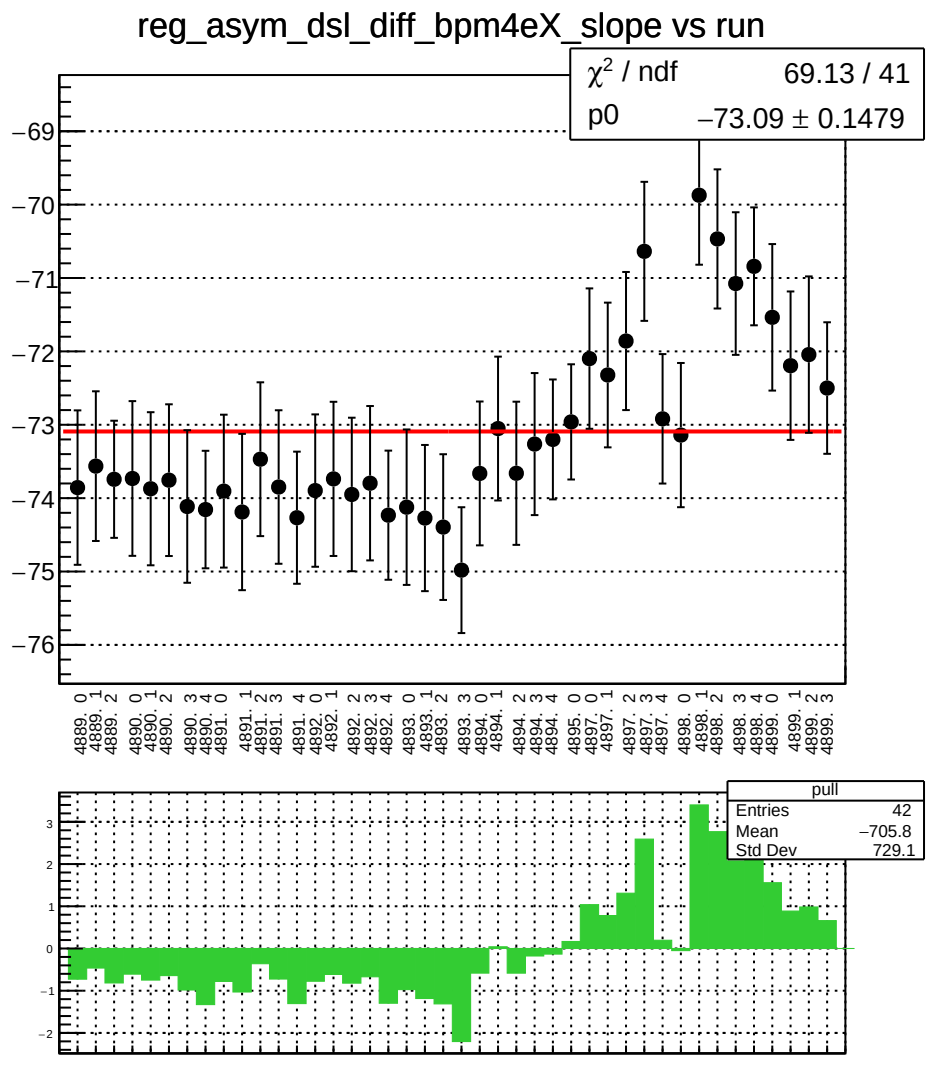

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 7.416 / 41
p0 −57.34 ± 0.1641
−55
−56
−57
−58
−59
−60
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 181.2
Std Dev 158.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean −0.02339
Std Dev 0.4196
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

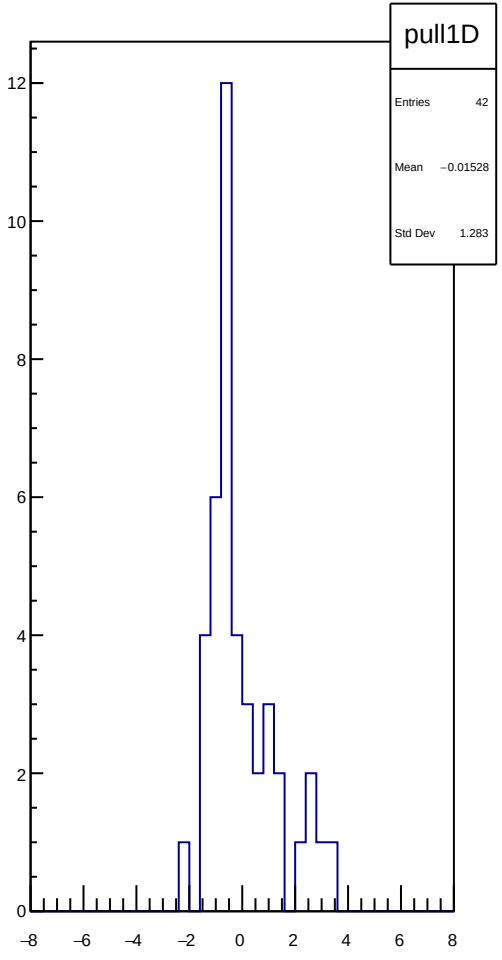

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 4.044 / 41
p0 49.92 ± 0.7834
pull
Entries 42
Mean −7.669
Std Dev 10.82

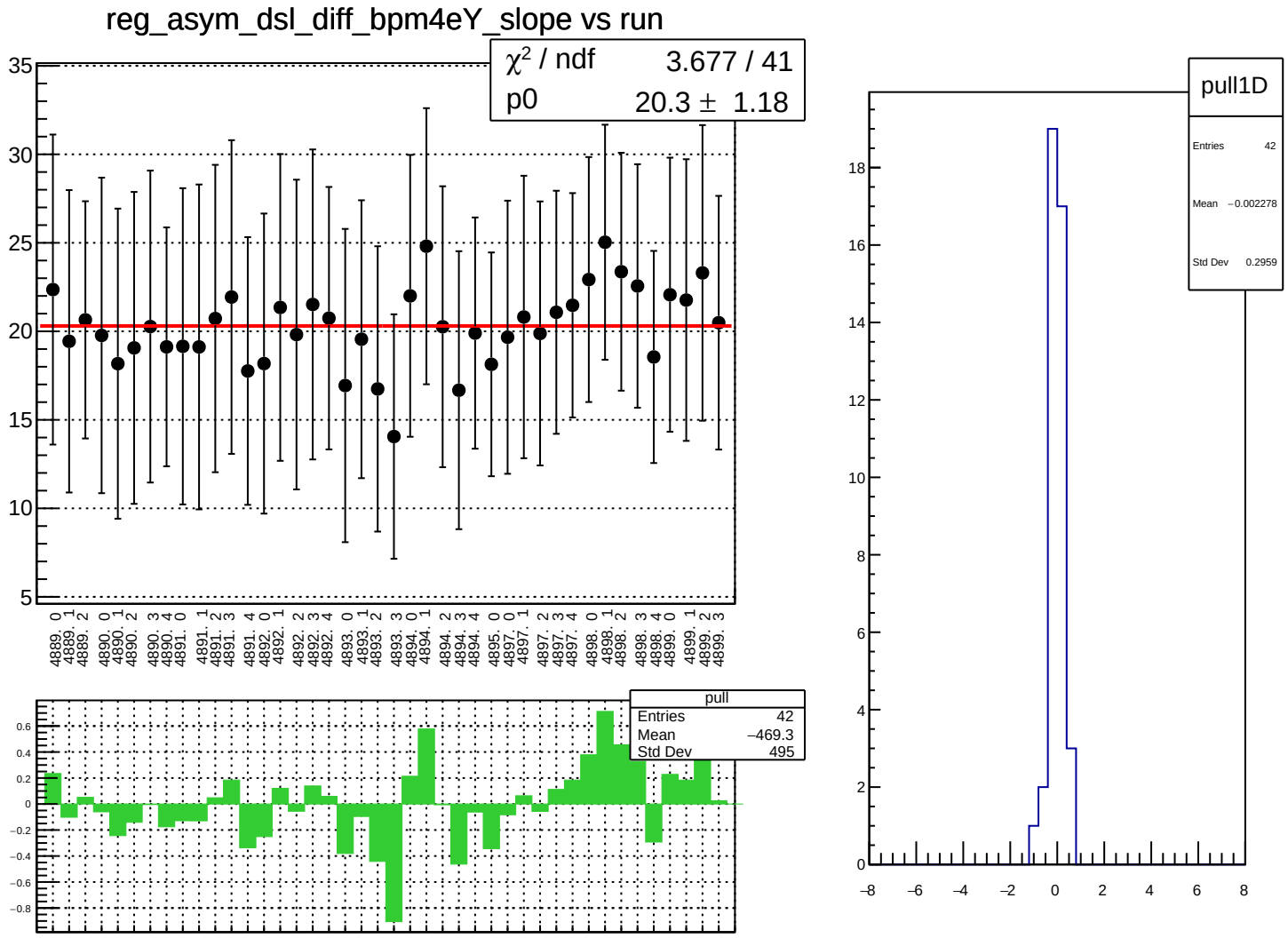

pull1D
Entries 42
Mean −0.01071
Std Dev 0.3101

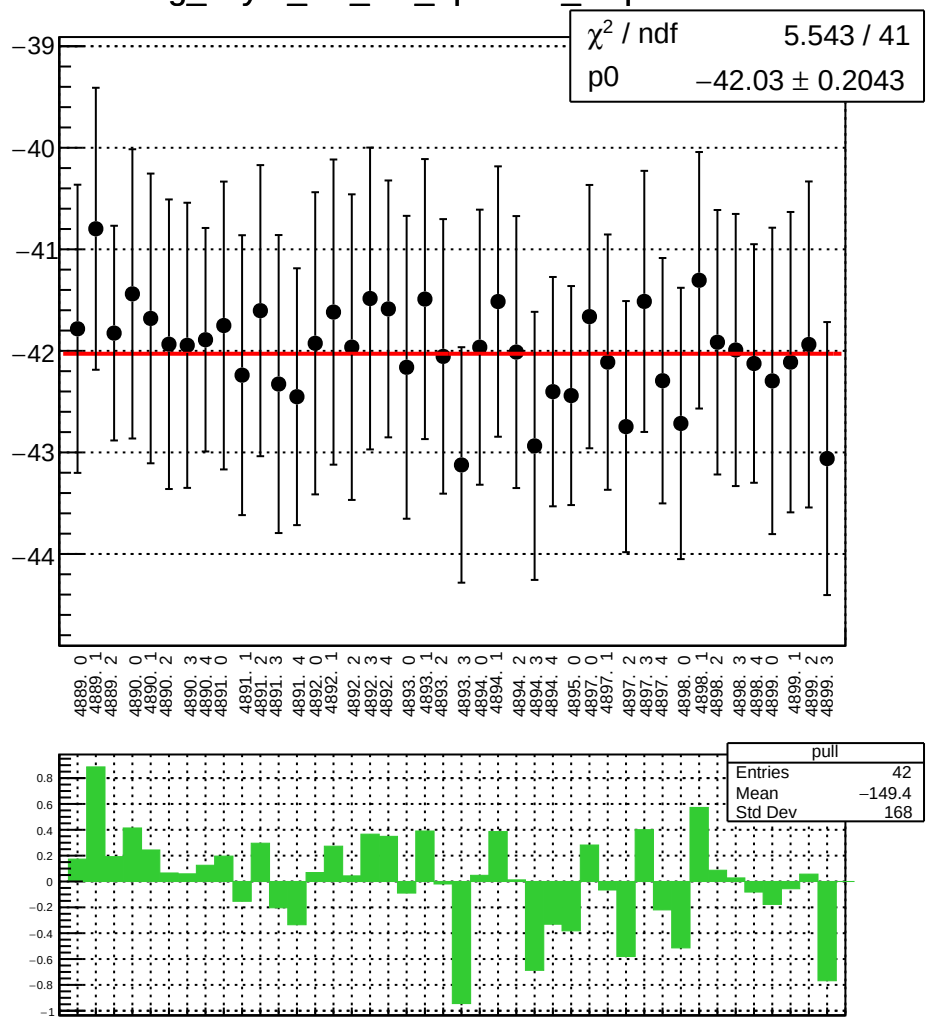

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 2.446 / 41
p0 −18.89 ± 1.062
pull
Entries 42
Mean −327.9
Std Dev 354.9

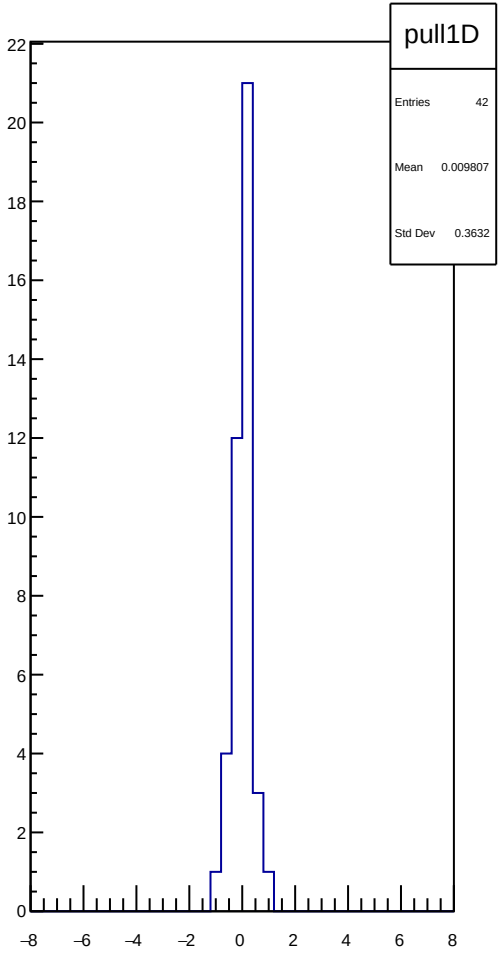

pull1D
Entries 42
Mean 0.0015
Std Dev 0.2413

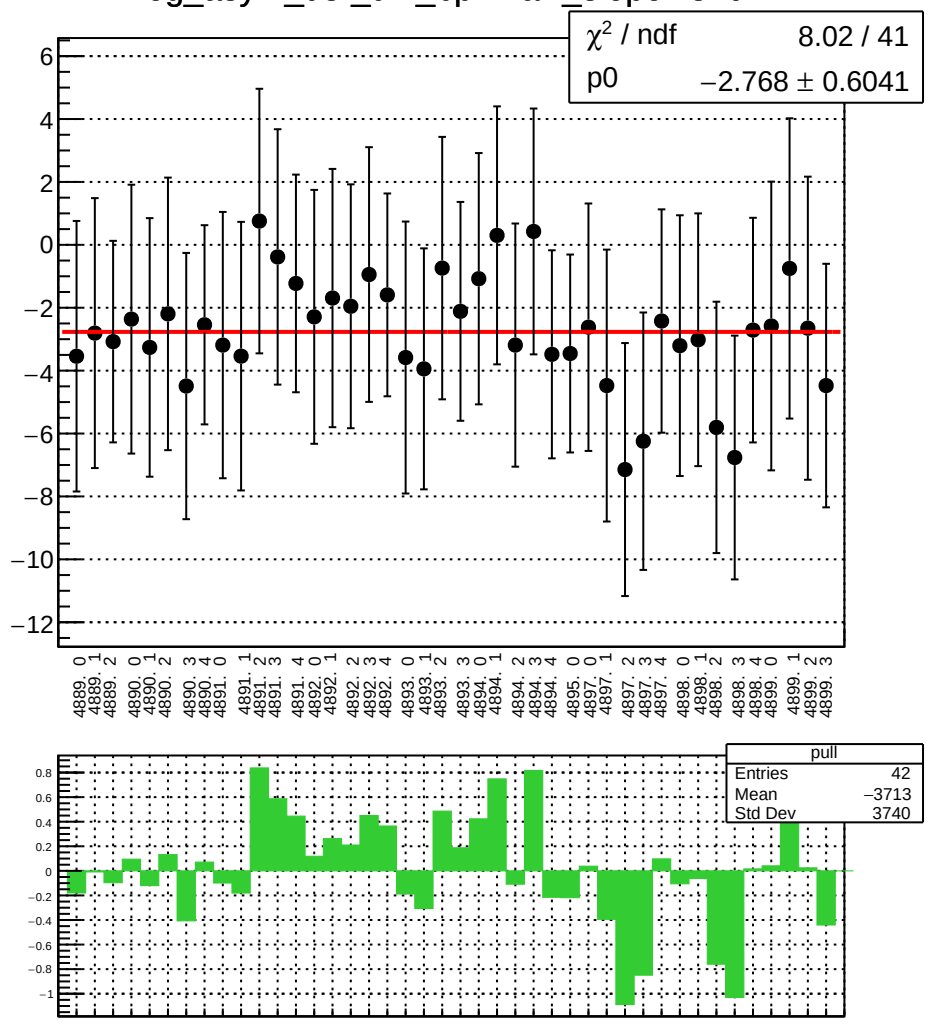

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 69.13 / 41
p0 −73.09 ± 0.1479
pull
Entries 42
Mean −705.8
Std Dev 729.1

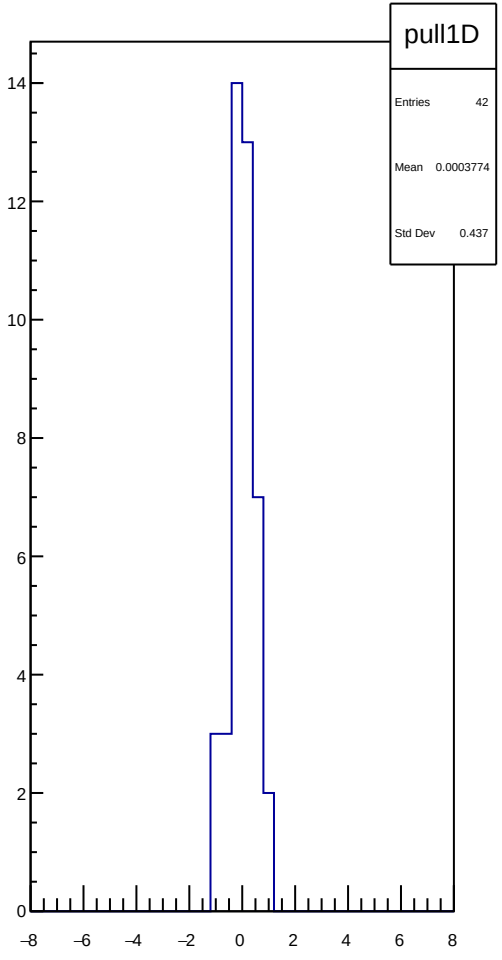

pull1D
Entries 42
Mean −0.01528
Std Dev 1.283

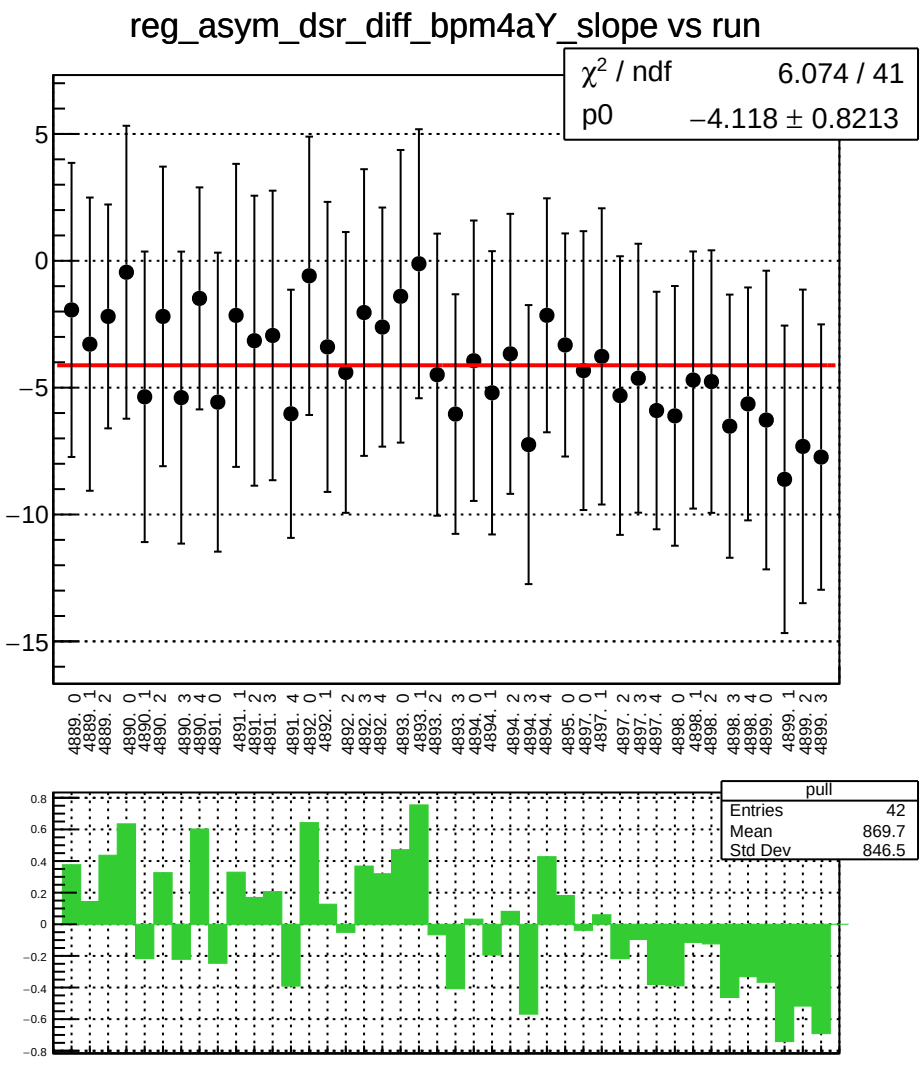

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 3.677 / 41
p0 20.3 ± 1.18
pull
Entries 42
Mean −469.3
Std Dev 495
pull1D
Entries 42
Mean −0.002278
Std Dev 0.2959

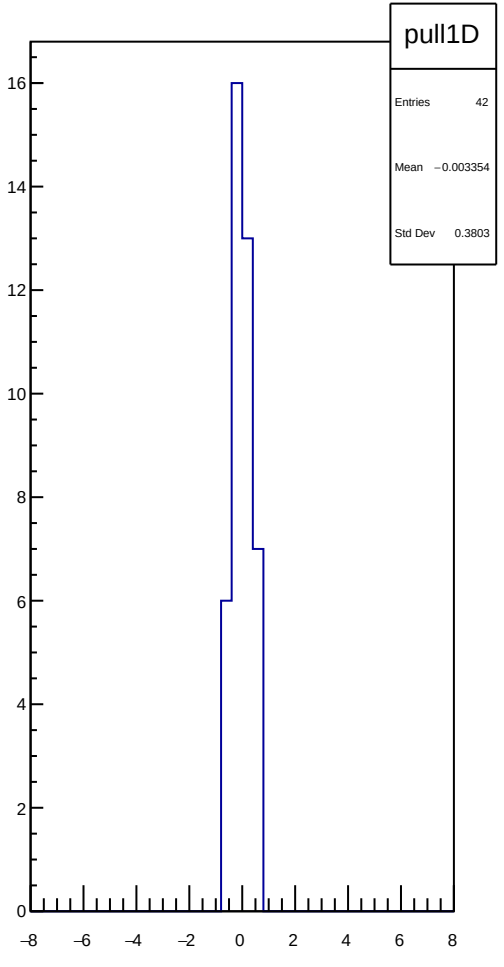

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 5.543 / 41
p0 −42.03 ± 0.2043
pull
Entries 42
Mean −149.4
Std Dev 168

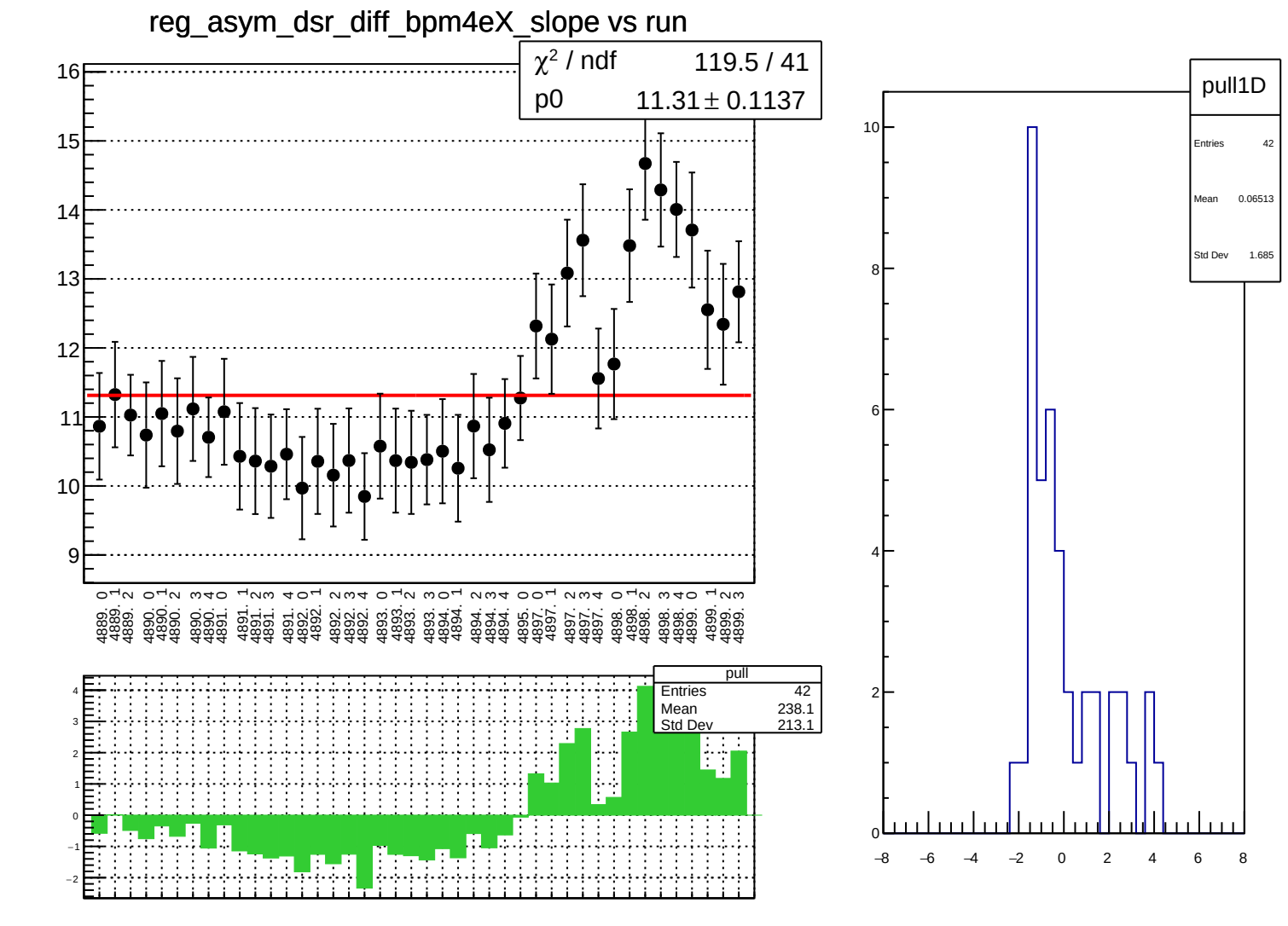

pull1D
Entries 42
Mean 0.009807
Std Dev 0.3632

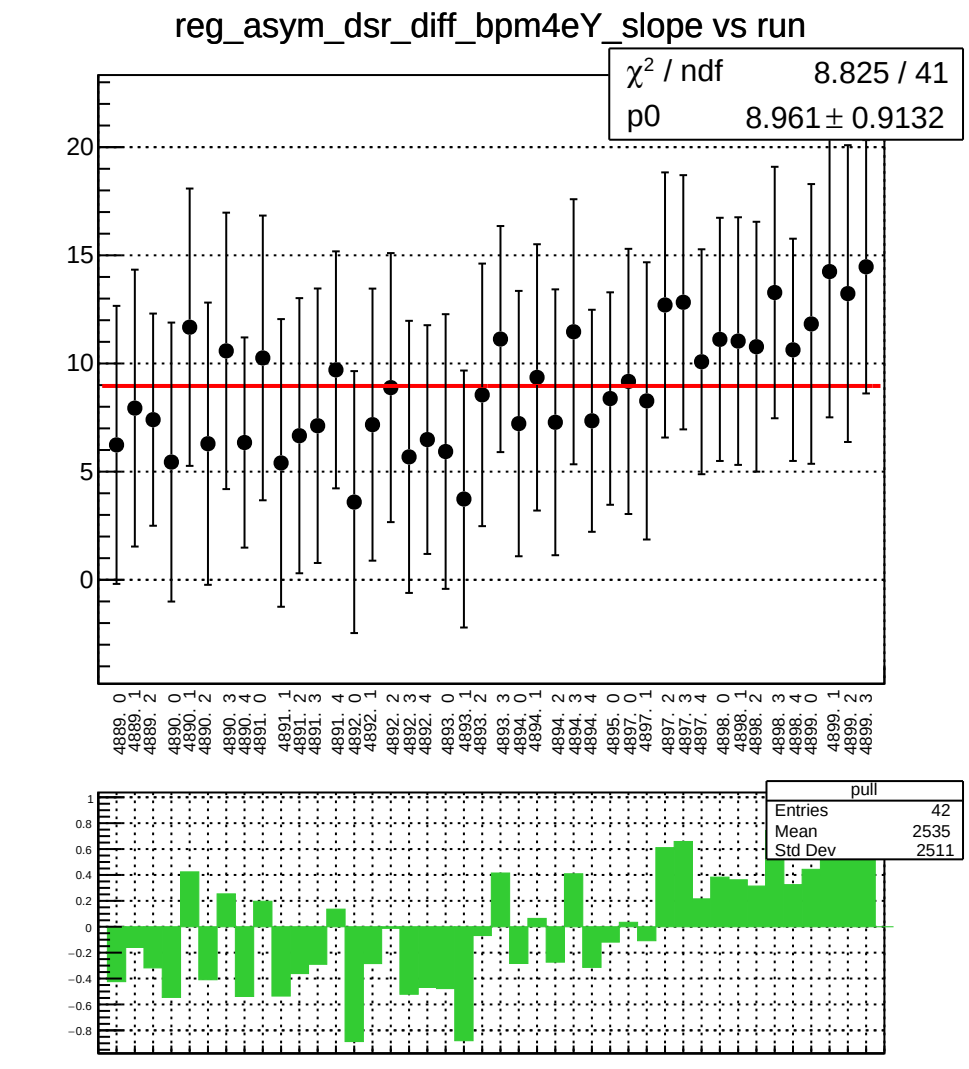

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 8.02 / 41
p0 −2.768 ± 0.6041
pull
Entries 42
Mean −3713
Std Dev 3740

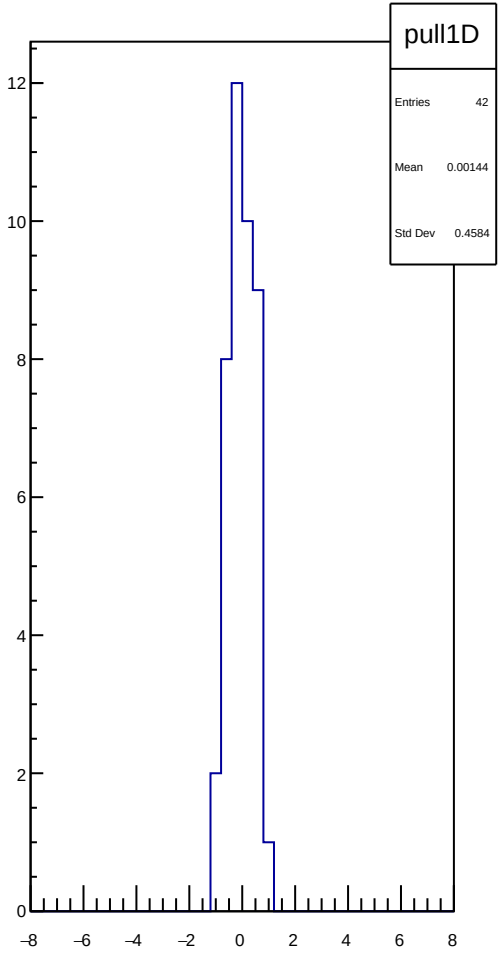

pull1D
Entries 42
Mean 0.0003774
Std Dev 0.437

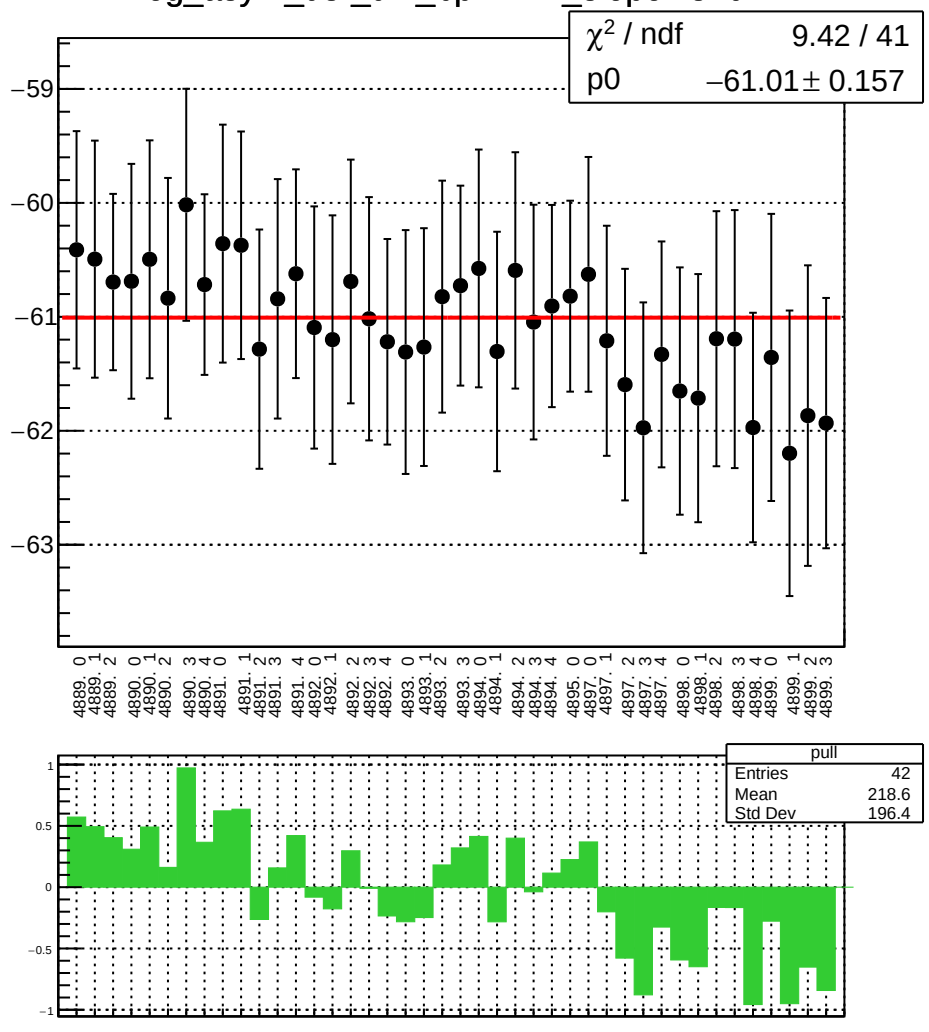

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 6.074 / 41
p0 −4.118 ± 0.8213
pull
Entries 42
Mean 869.7
Std Dev 846.5

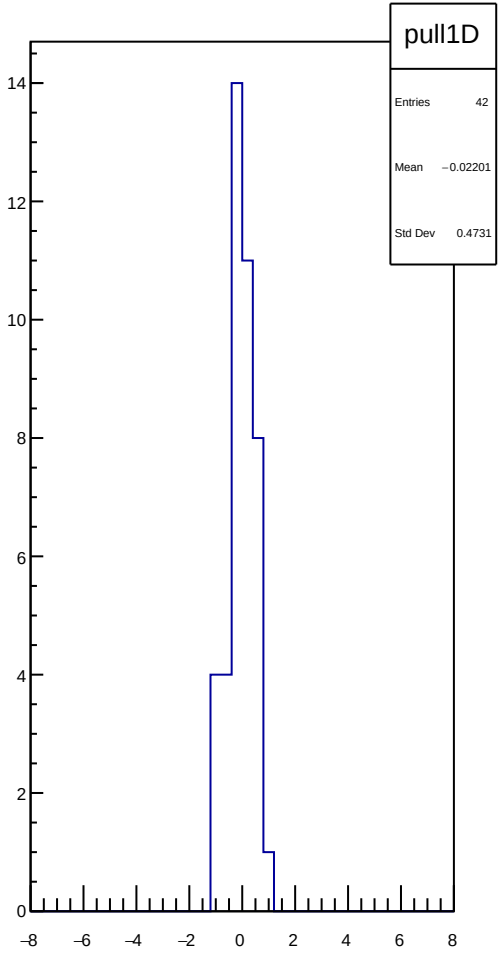

pull1D
Entries 42
Mean −0.003354
Std Dev 0.3803

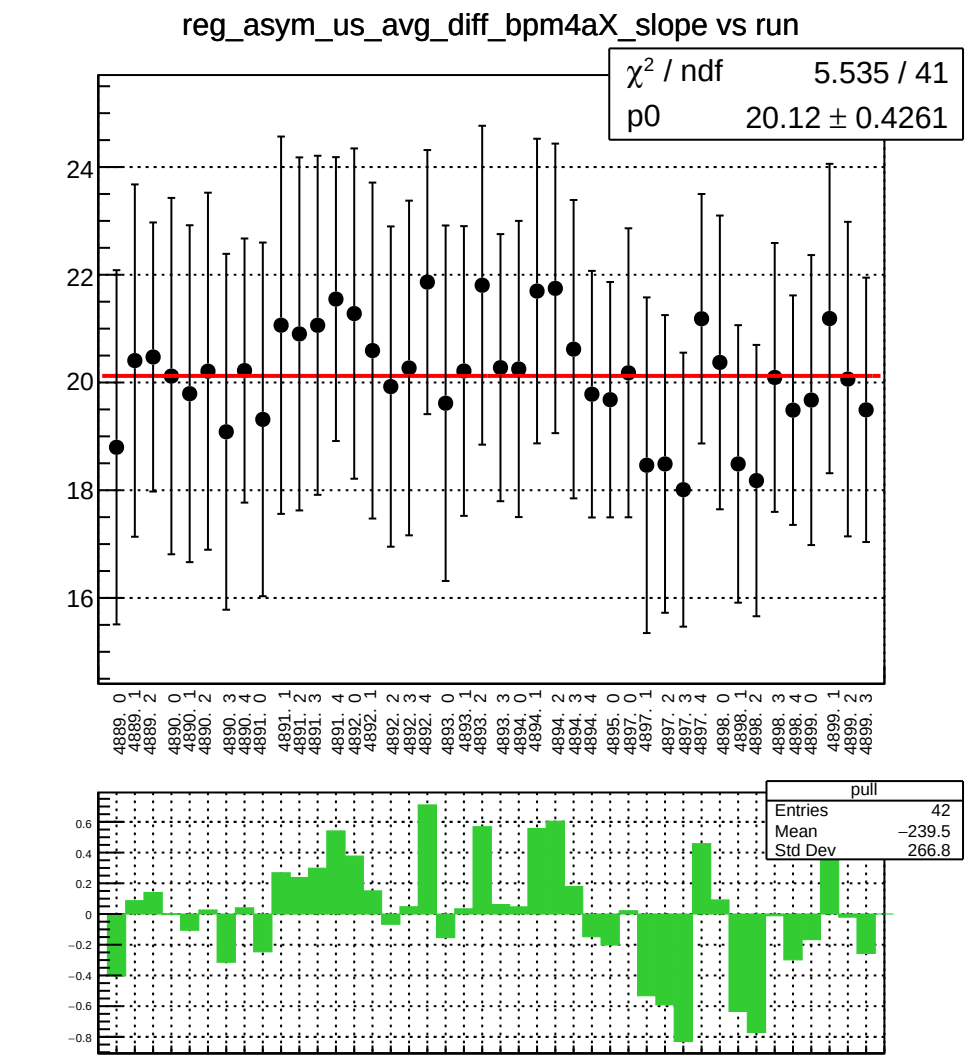

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 119.5 / 41
p0 11.31 ± 0.1137
pull
Entries 42
Mean 238.1
Std Dev 213.1
pull1D
Entries 42
Mean 0.06513
Std Dev 1.685

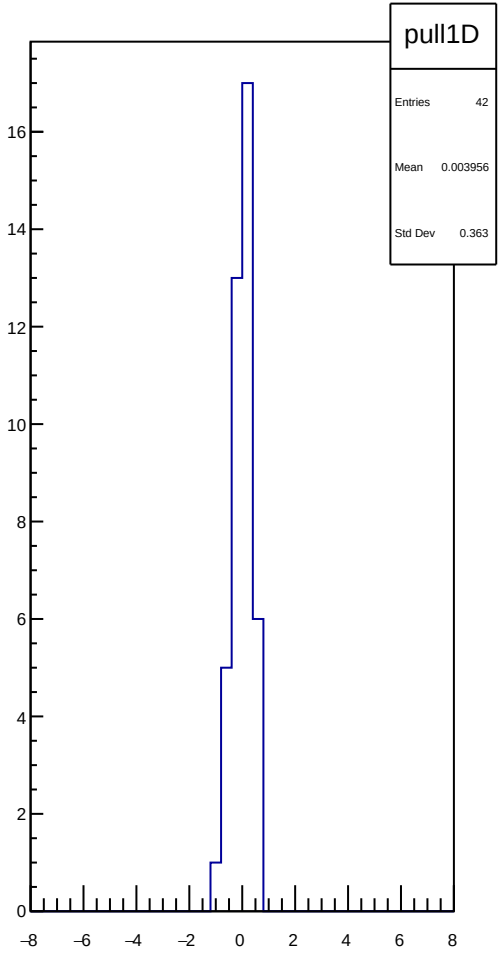

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 8.825 / 41
p0 8.961 ± 0.9132
pull
Entries 42
Mean 2535
Std Dev 2511

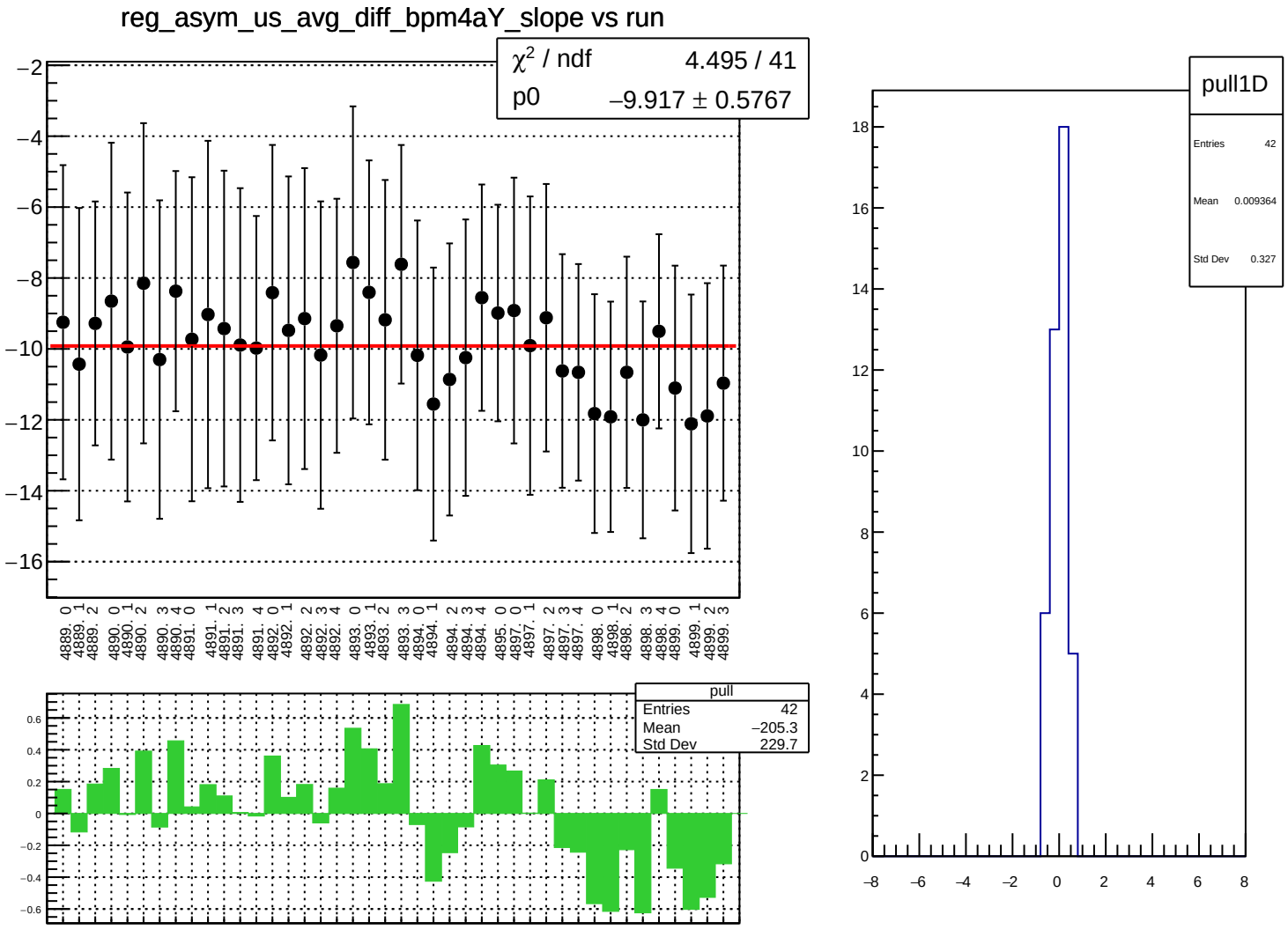

pull1D
Entries 42
Mean 0.00144
Std Dev 0.4584

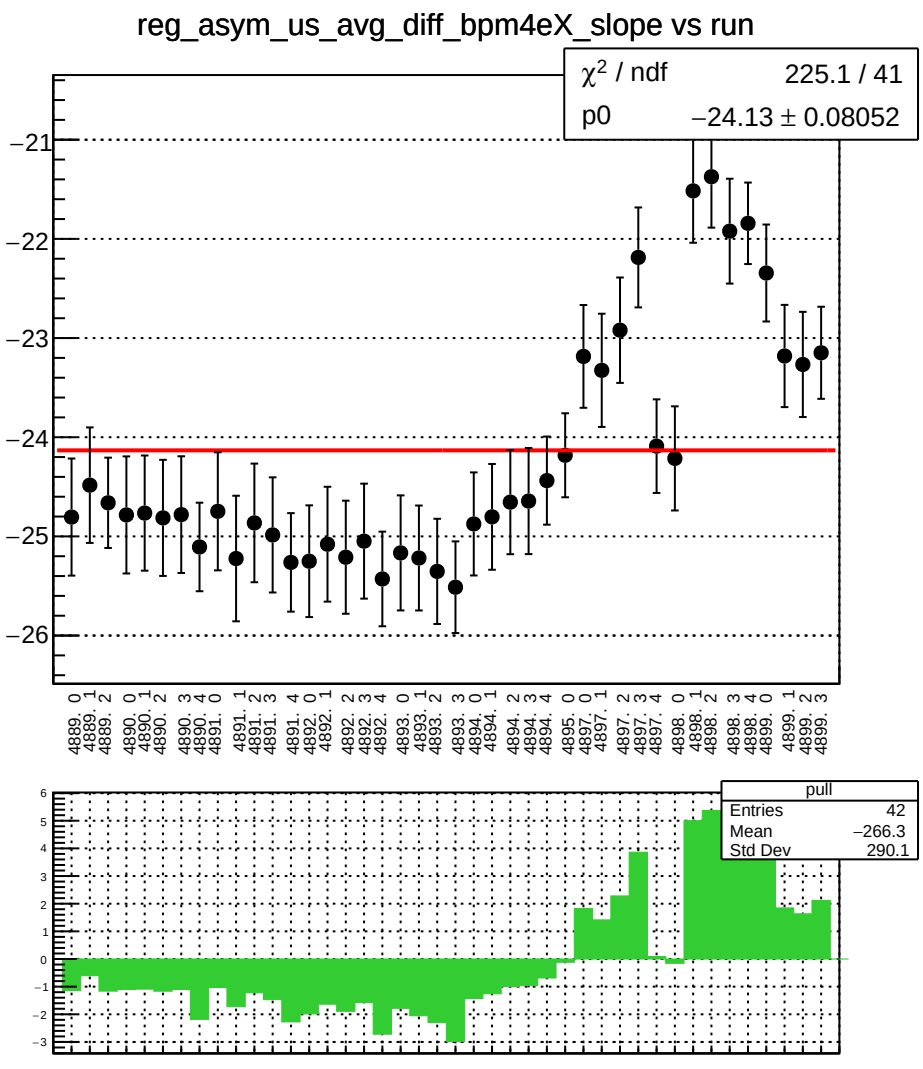

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 9.42 / 41
p0 −61.01 ± 0.157
−59
−60
−61
−62
−63
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 218.6
Std Dev 196.4
1
0.5
0
−0.5
−1

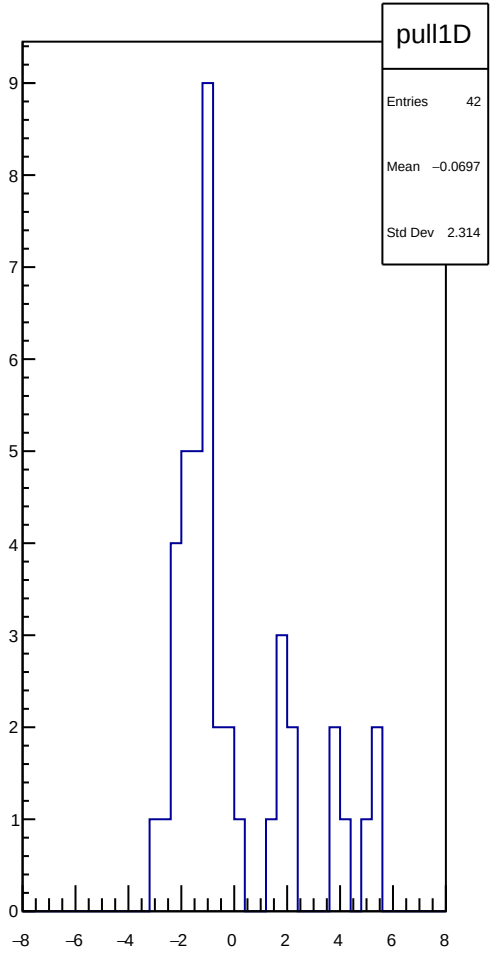

pull1D
Entries 42
Mean −0.02201
Std Dev 0.4731
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

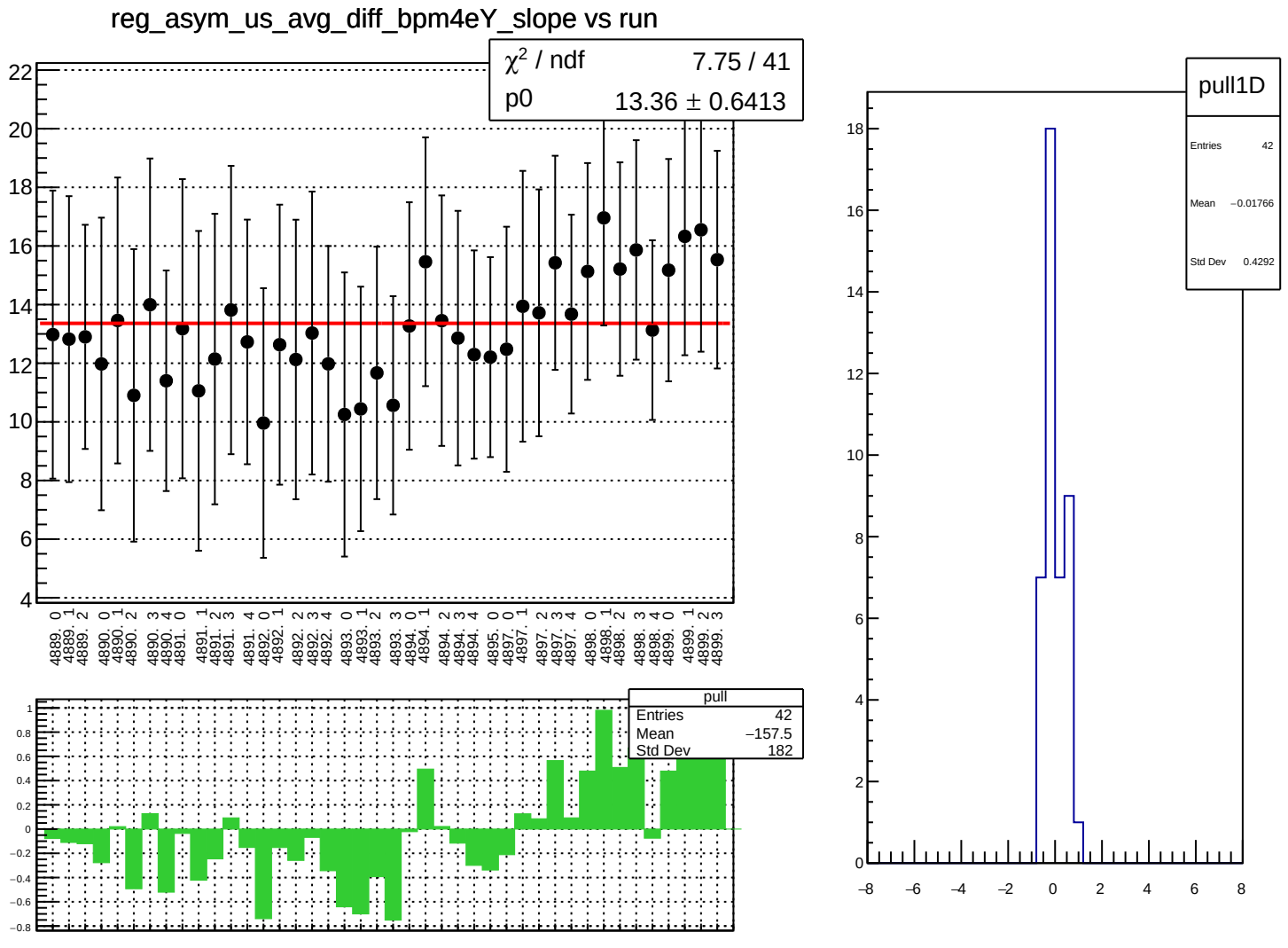

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.535 / 41
p0 20.12 ± 0.4261
24
22
20
18
16
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −239.5
Std Dev 266.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

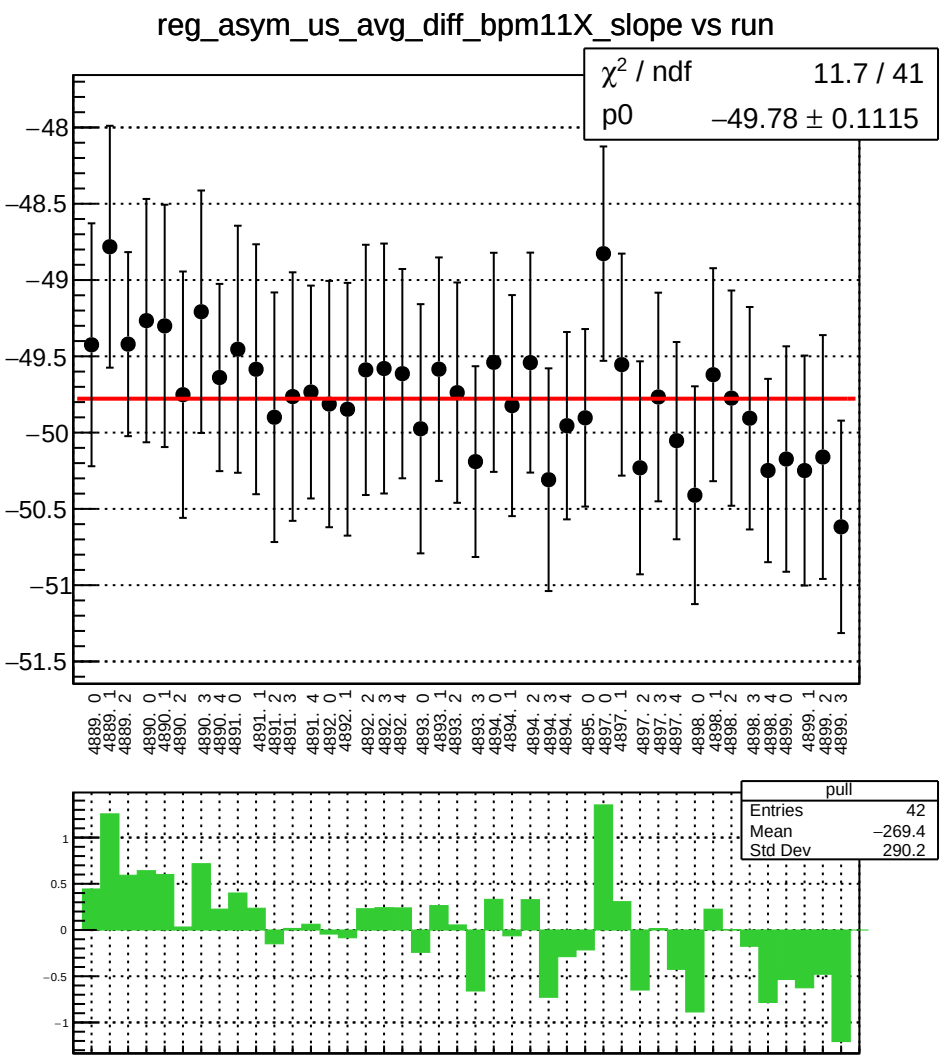

pull1D
Entries 42
Mean 0.003956
Std Dev 0.363
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

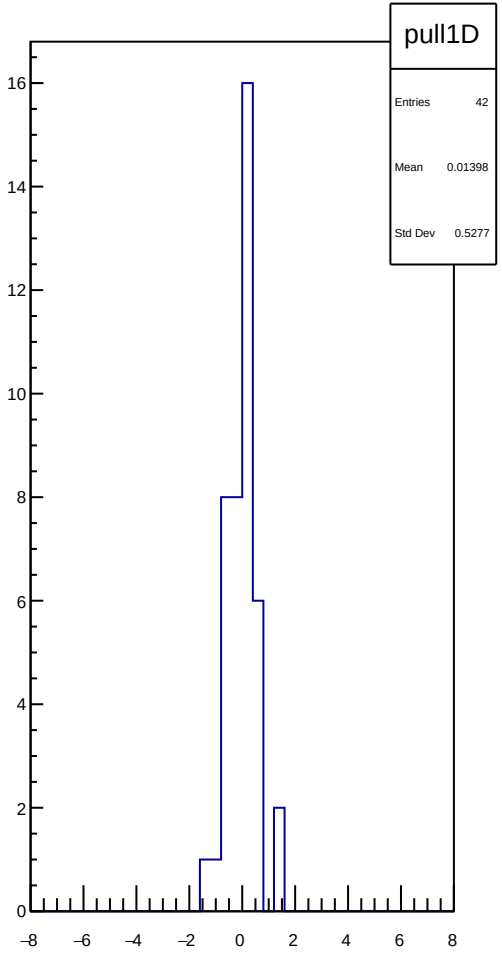

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.495 / 41
p0 −9.917 ± 0.5767
pull
Entries 42
Mean −205.3
Std Dev 229.7
pull1D
Entries 42
Mean 0.009364
Std Dev 0.327

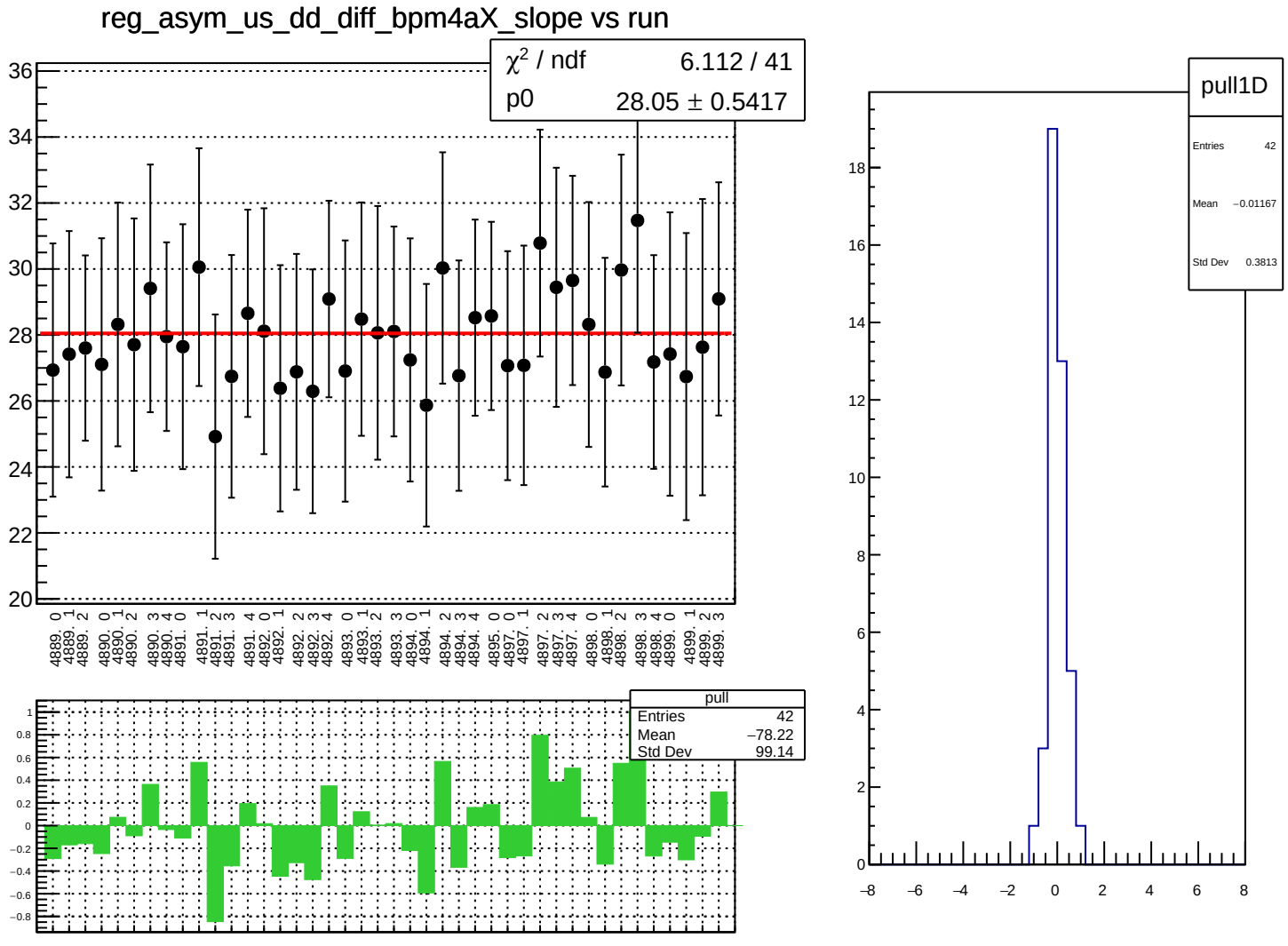

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 225.1 / 41
p0 −24.13 ± 0.08052
pull
Entries 42
Mean −266.3
Std Dev 290.1

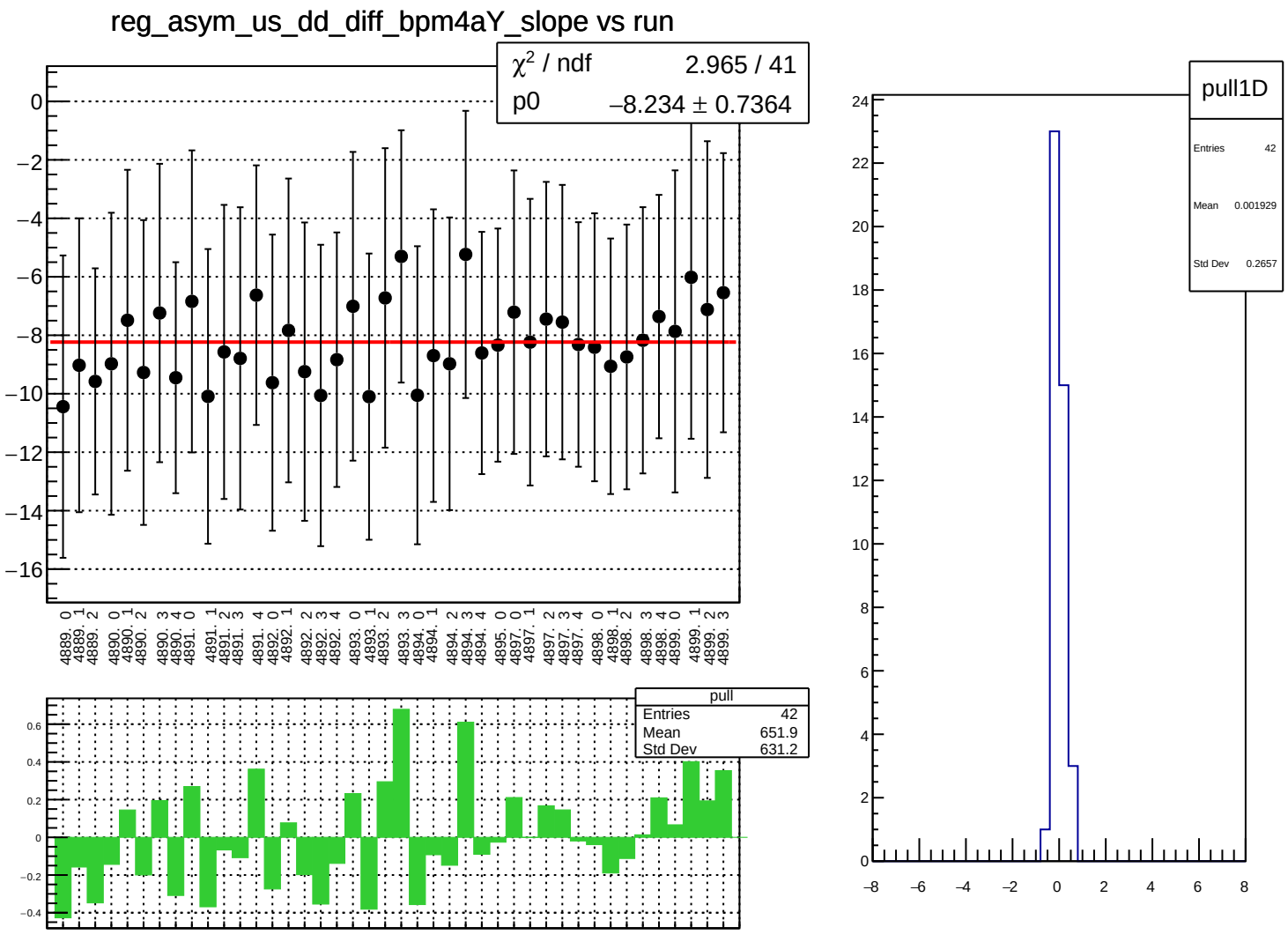

pull1D
Entries 42
Mean −0.0697
Std Dev 2.314

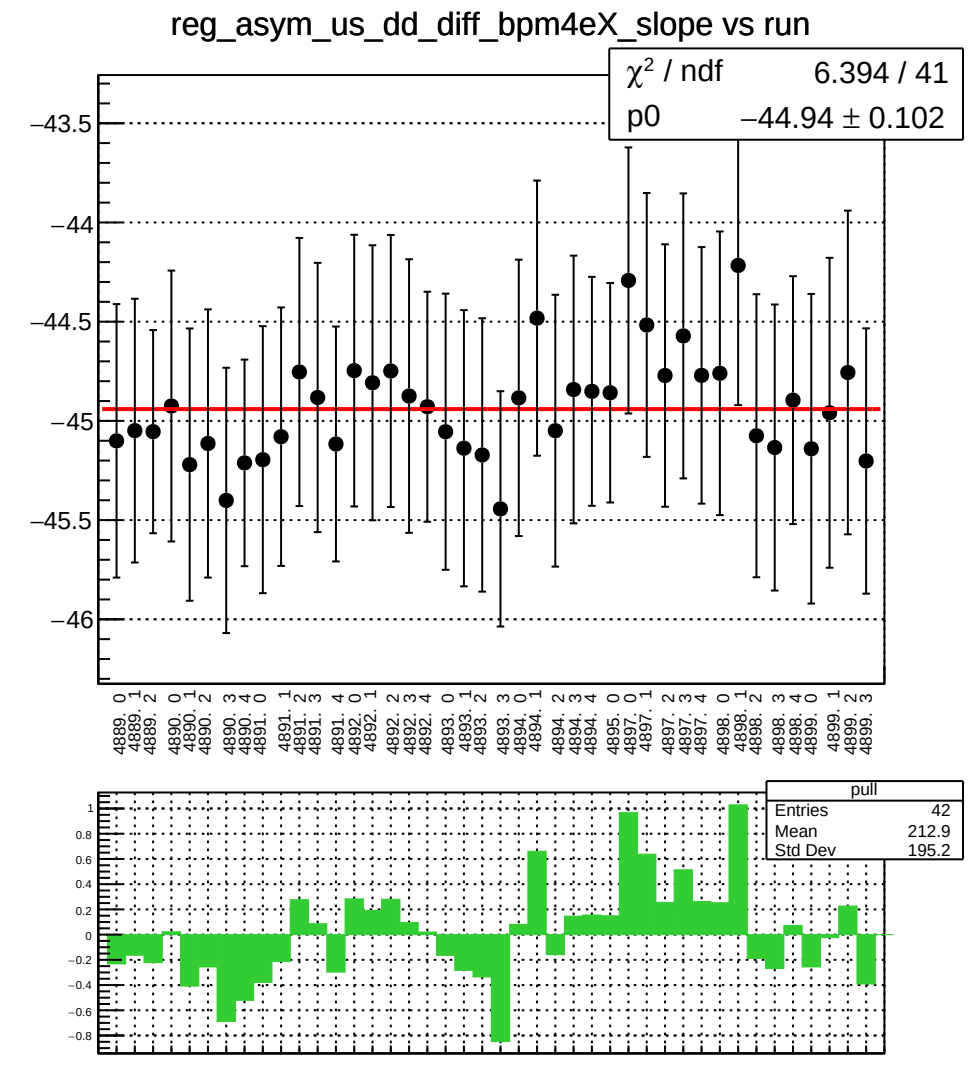

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.75 / 41
p0 13.36 ± 0.6413
pull
Entries 42
Mean −157.5
Std Dev 182
pull1D
Entries 42
Mean −0.01766
Std Dev 0.4292

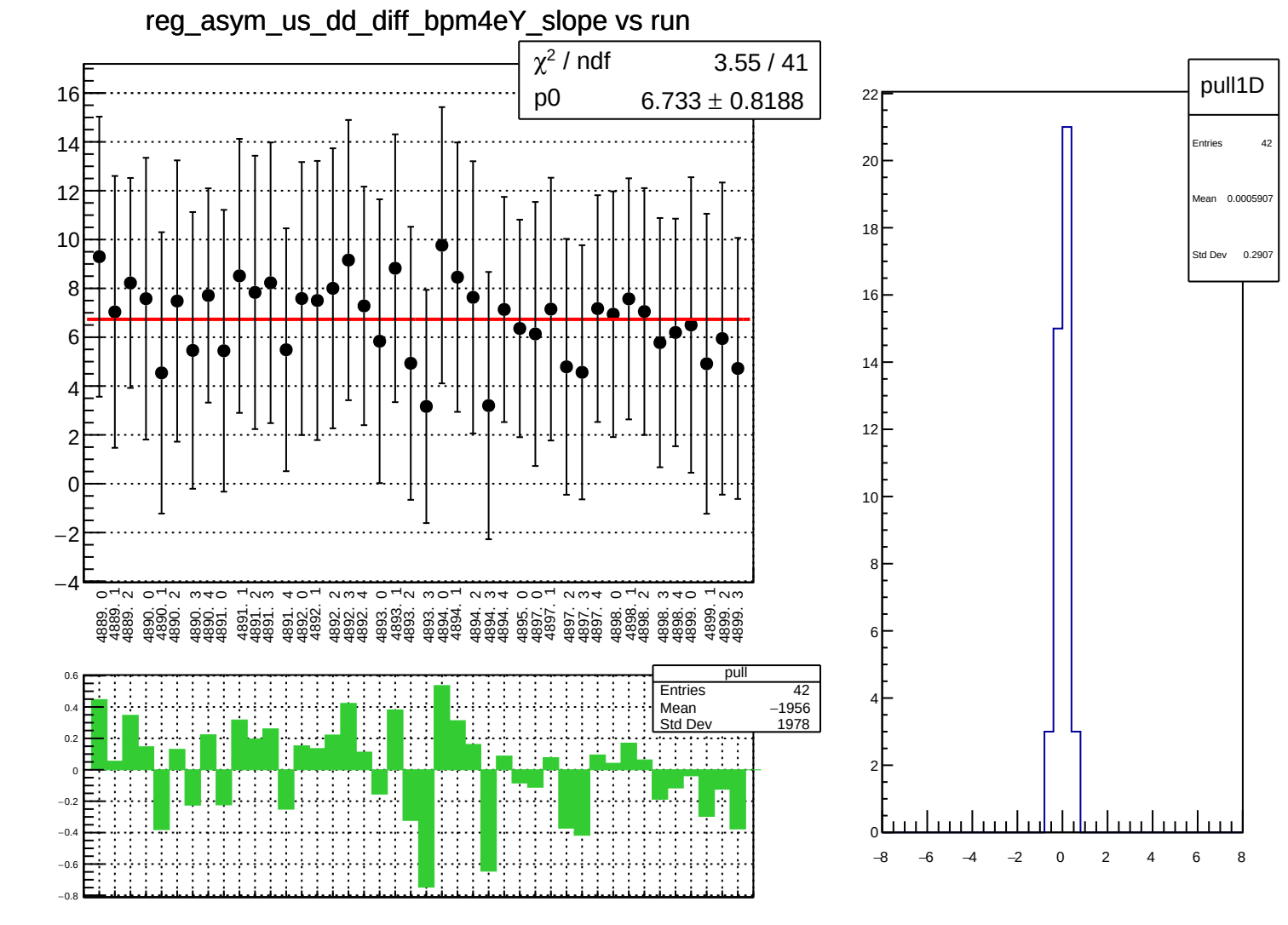

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 11.7 / 41
p0 −49.78 ± 0.1115
pull
Entries 42
Mean −269.4
Std Dev 290.2

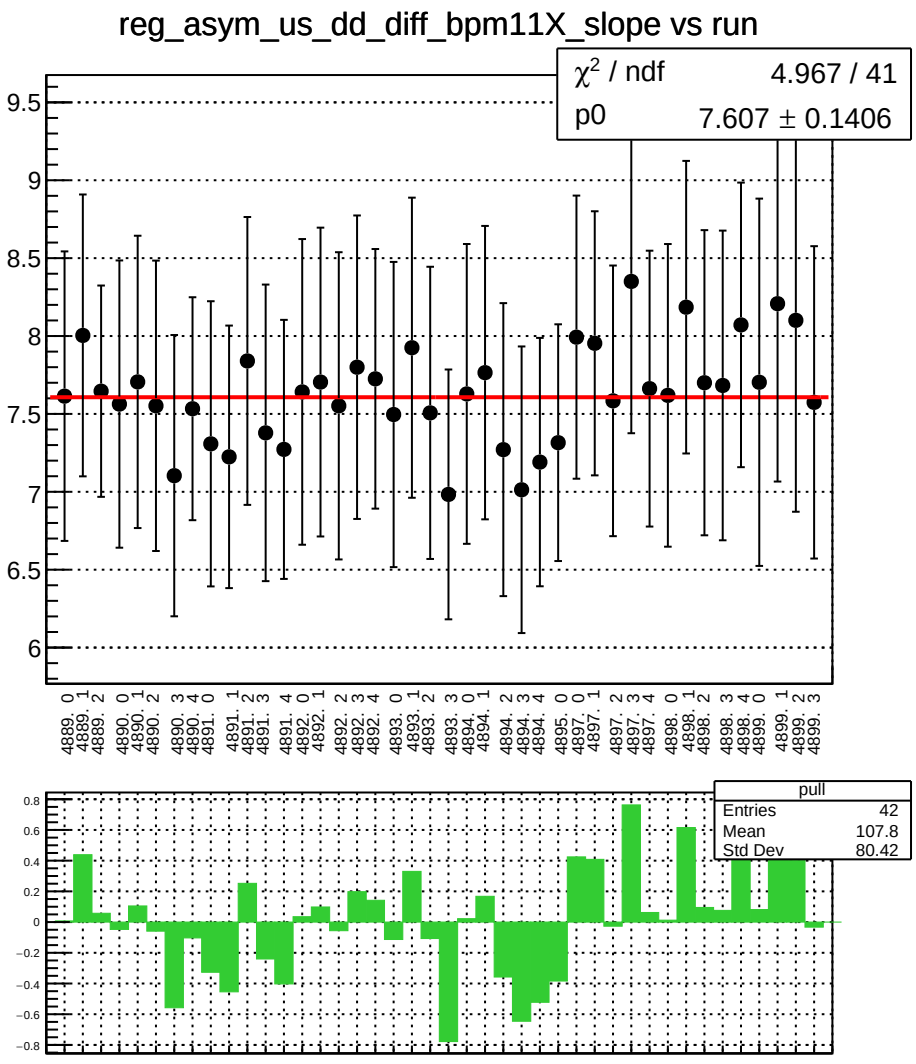

pull1D
Entries 42
Mean 0.01398
Std Dev 0.5277

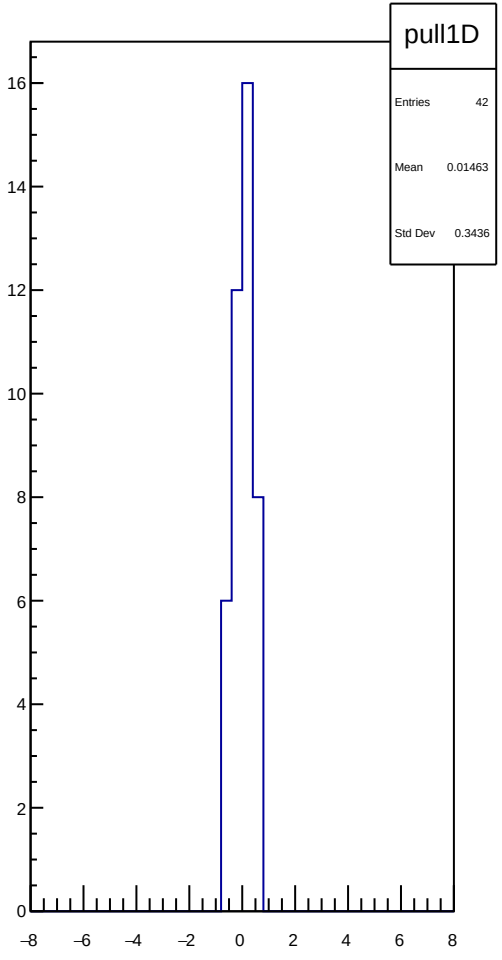

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.112 / 41
p0 28.05 ± 0.5417
pull
Entries 42
Mean −78.22
Std Dev 99.14
pull1D
Entries 42
Mean −0.01167
Std Dev 0.3813

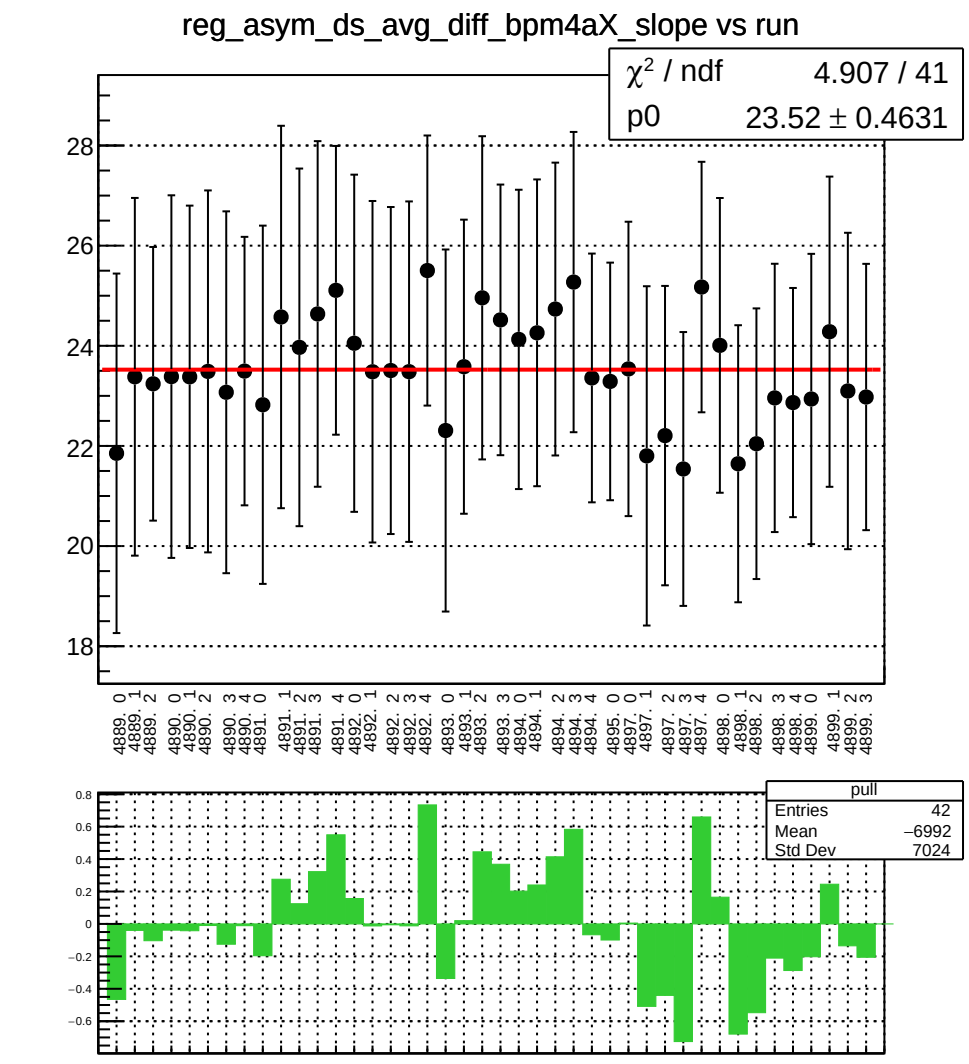

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.965 / 41
p0 −8.234 ± 0.7364
pull
Entries 42
Mean 651.9
Std Dev 631.2
pull1D
Entries 42
Mean 0.001929
Std Dev 0.2657

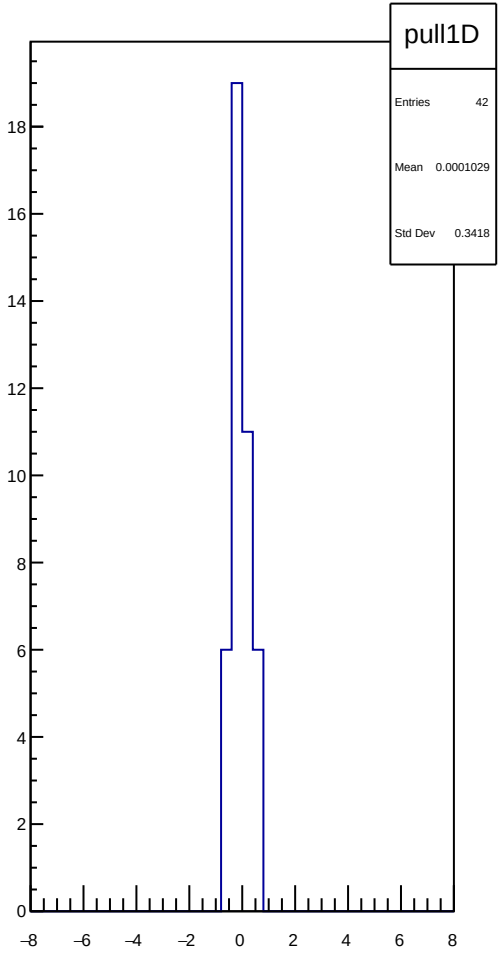

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.394 / 41
p0 −44.94 ± 0.102
−43.5
−44
−44.5
−45
−45.5
−46
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 212.9
Std Dev 195.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean 0.008754
Std Dev 0.3901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

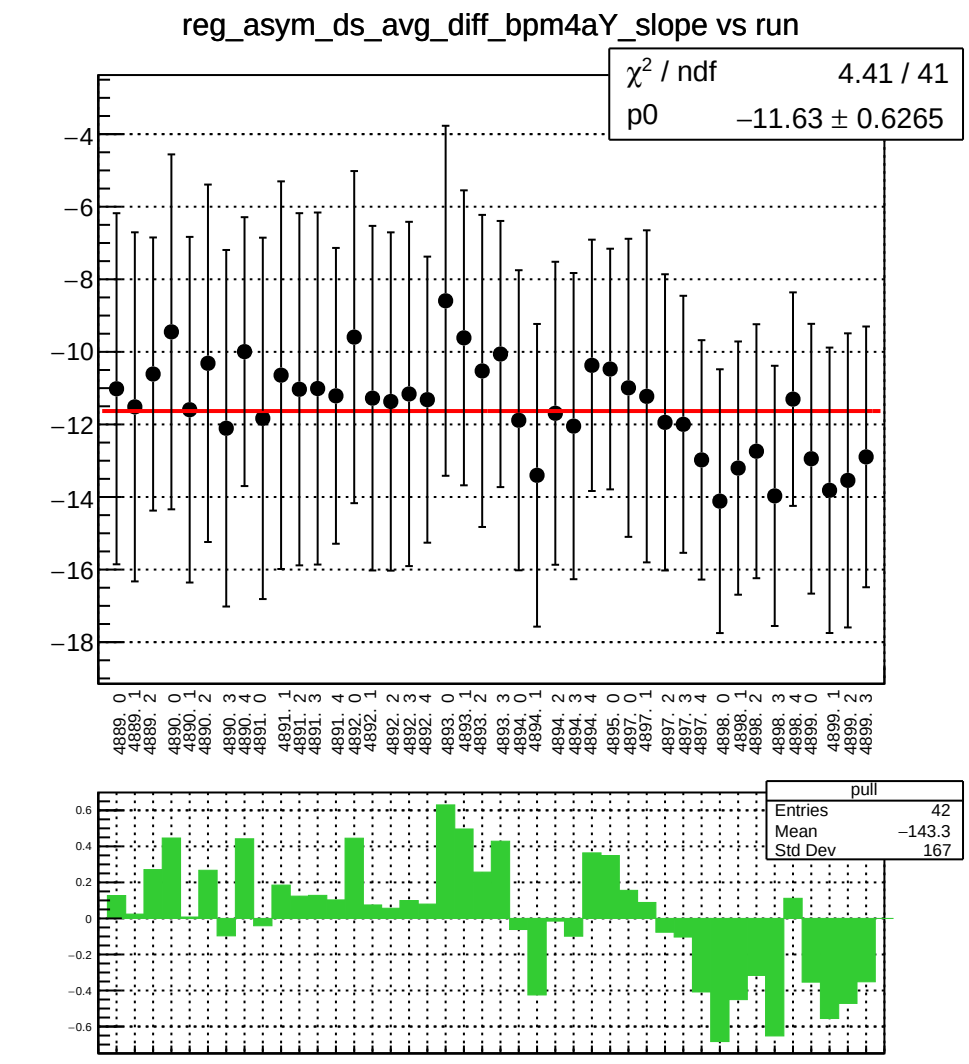

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.55 / 41
p0 6.733 ± 0.8188
pull
Entries 42
Mean −1956
Std Dev 1978
pull1D
Entries 42
Mean 0.0005907
Std Dev 0.2907

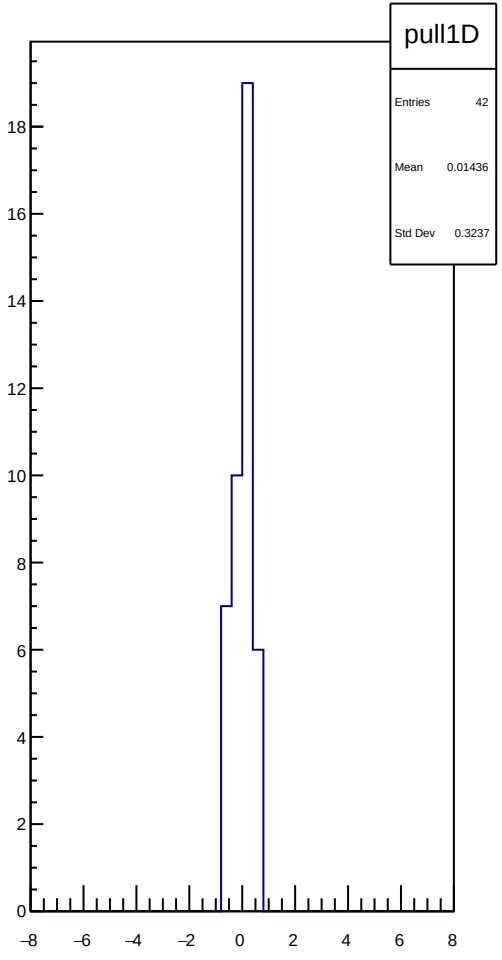

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 4.967 / 41
p0 7.607 ± 0.1406
pull
Entries 42
Mean 107.8
Std Dev 80.42

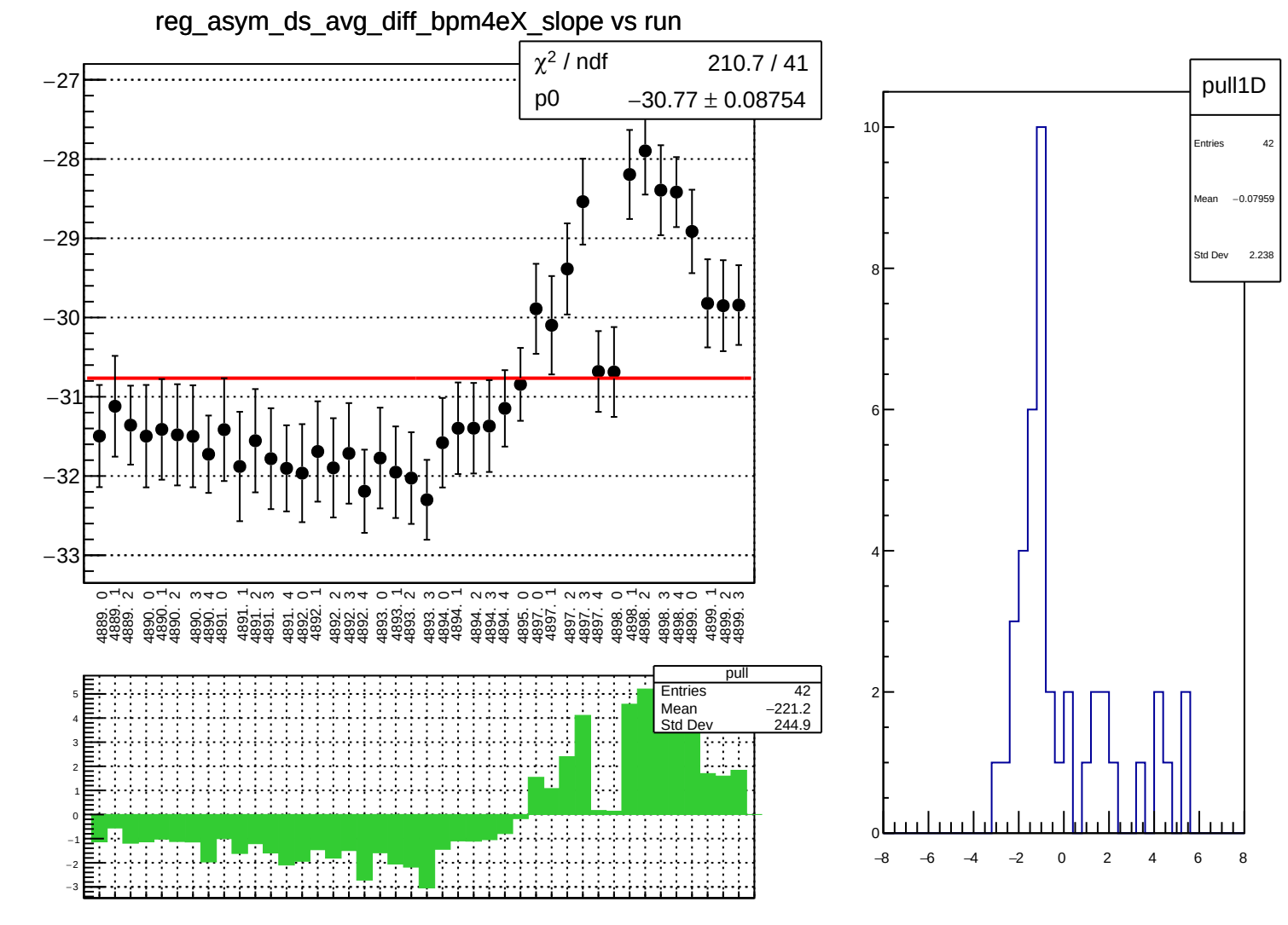

pull1D
Entries 42
Mean 0.01463
Std Dev 0.3436

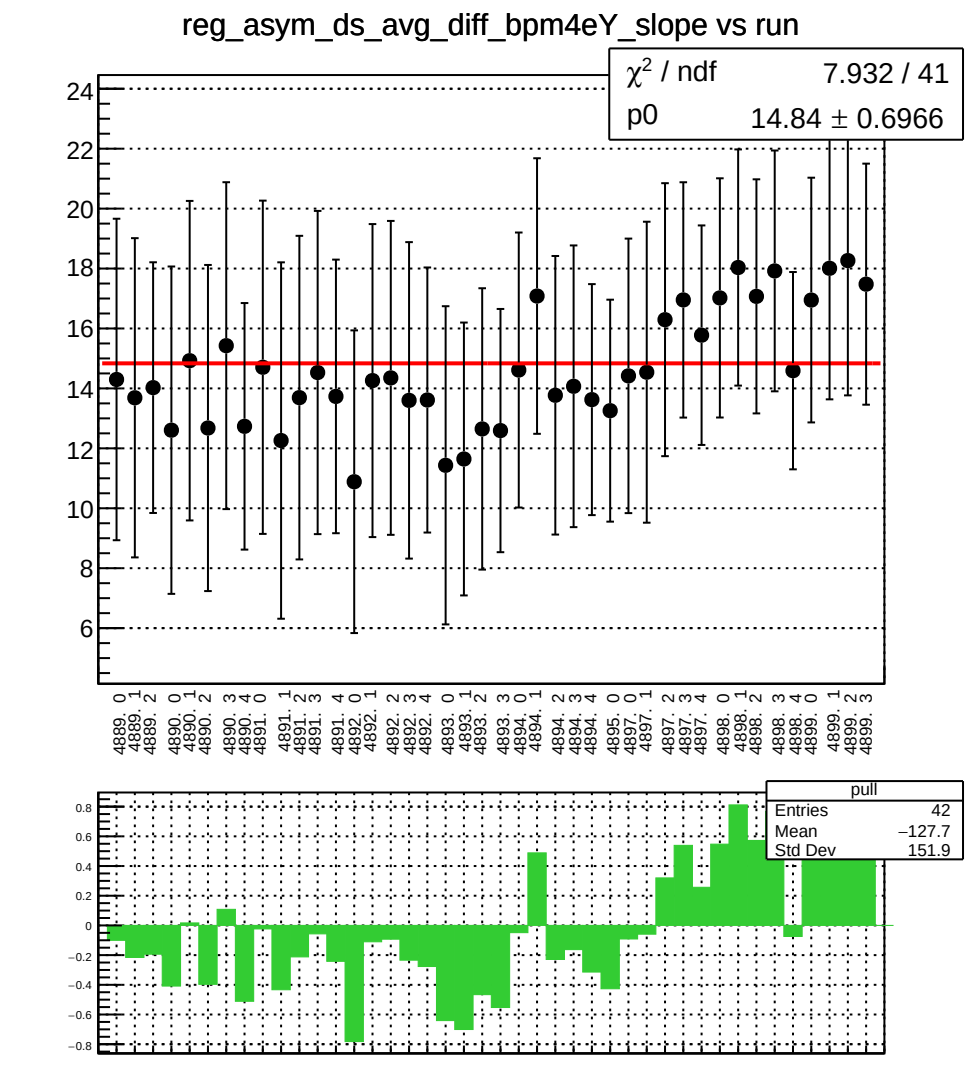

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.907 / 41
p0 23.52 ± 0.4631
28
26
24
22
20
18
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −6992
Std Dev 7024
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

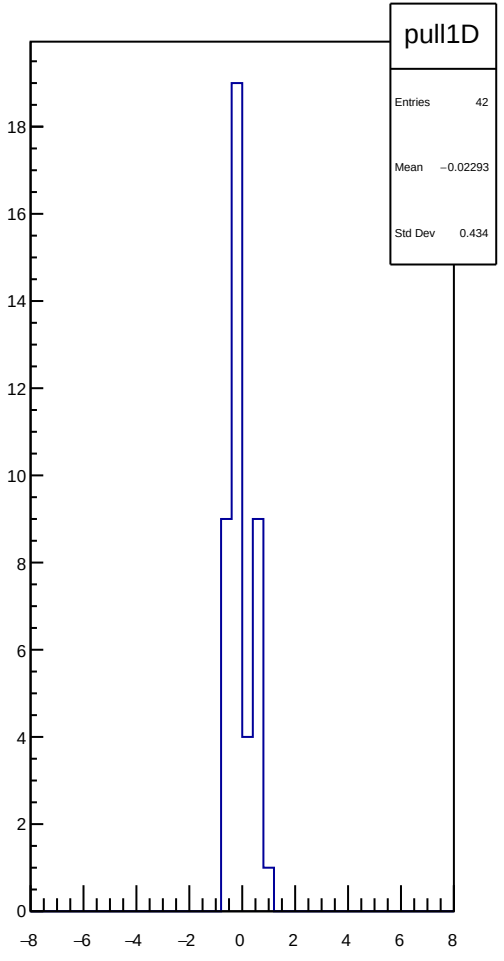

pull1D
Entries 42
Mean 0.0001029
Std Dev 0.3418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

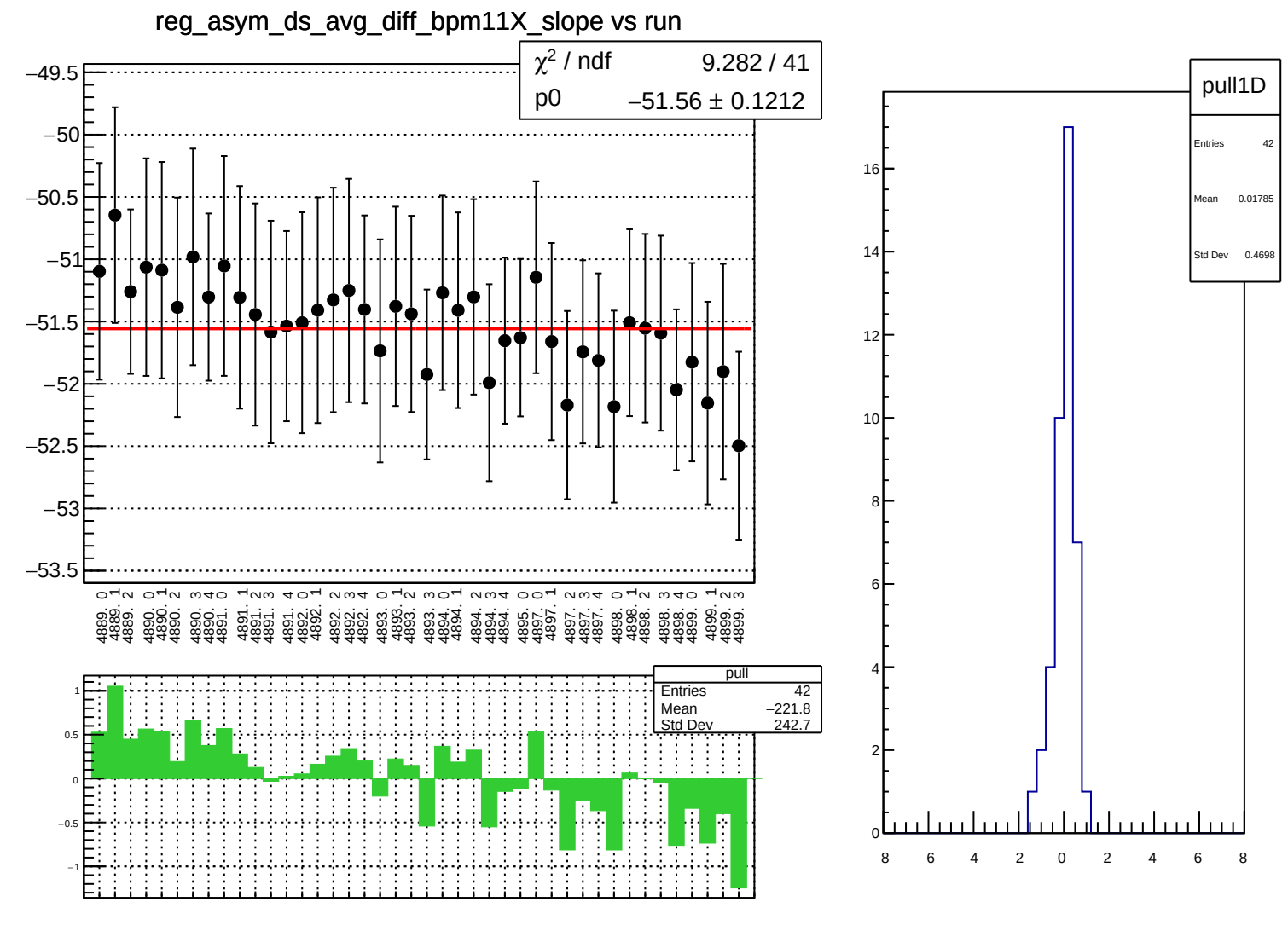

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.41 / 41
p0 −11.63 ± 0.6265
pull
Entries 42
Mean −143.3
Std Dev 167

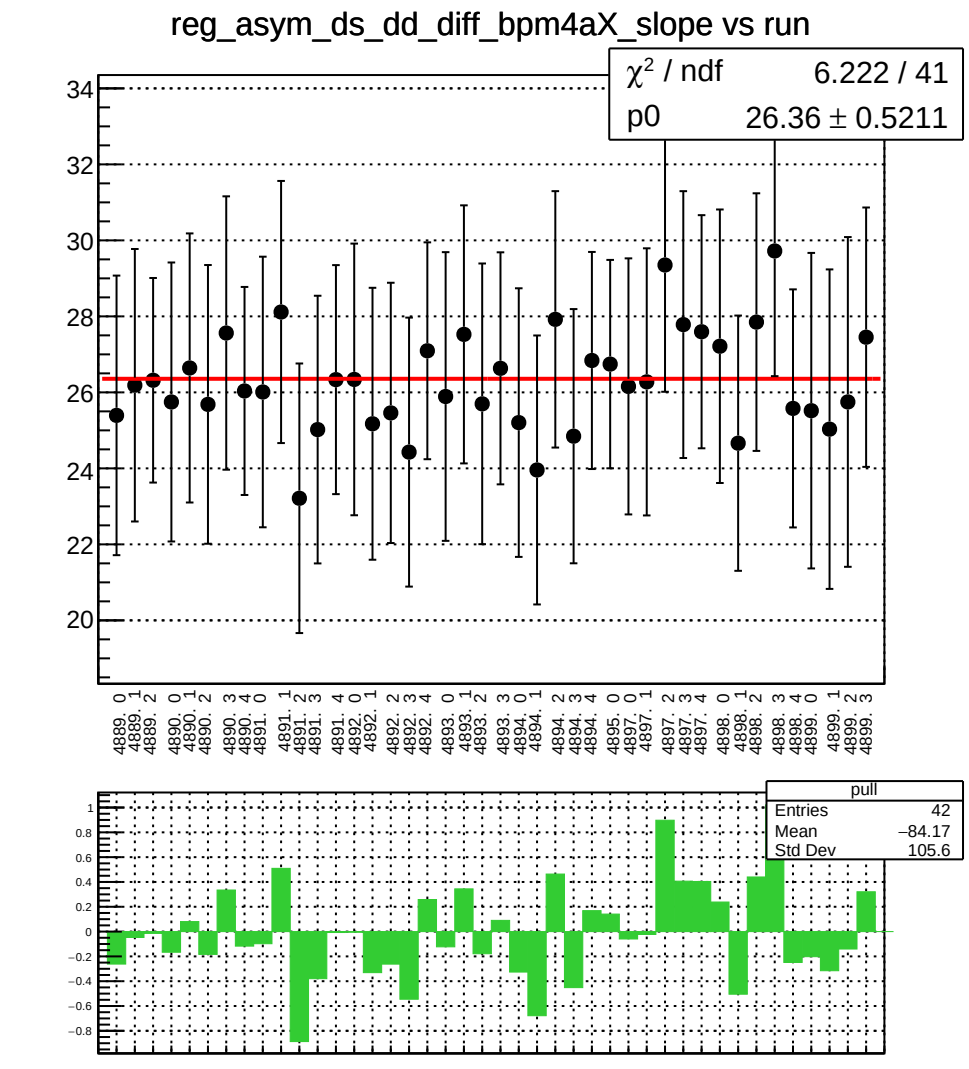

pull1D
Entries 42
Mean 0.01436
Std Dev 0.3237

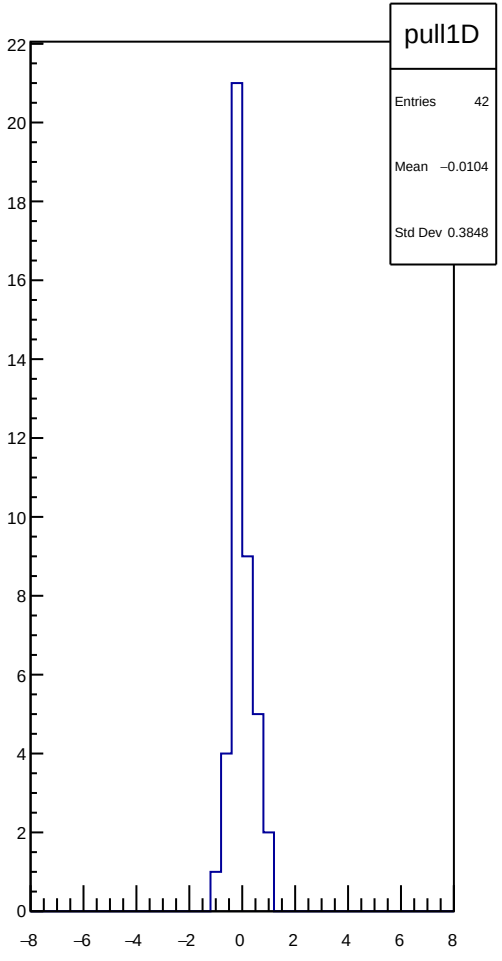

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 210.7 / 41
p0 −30.77 ± 0.08754
pull
Entries 42
Mean −221.2
Std Dev 244.9
pull1D
Entries 42
Mean −0.07959
Std Dev 2.238

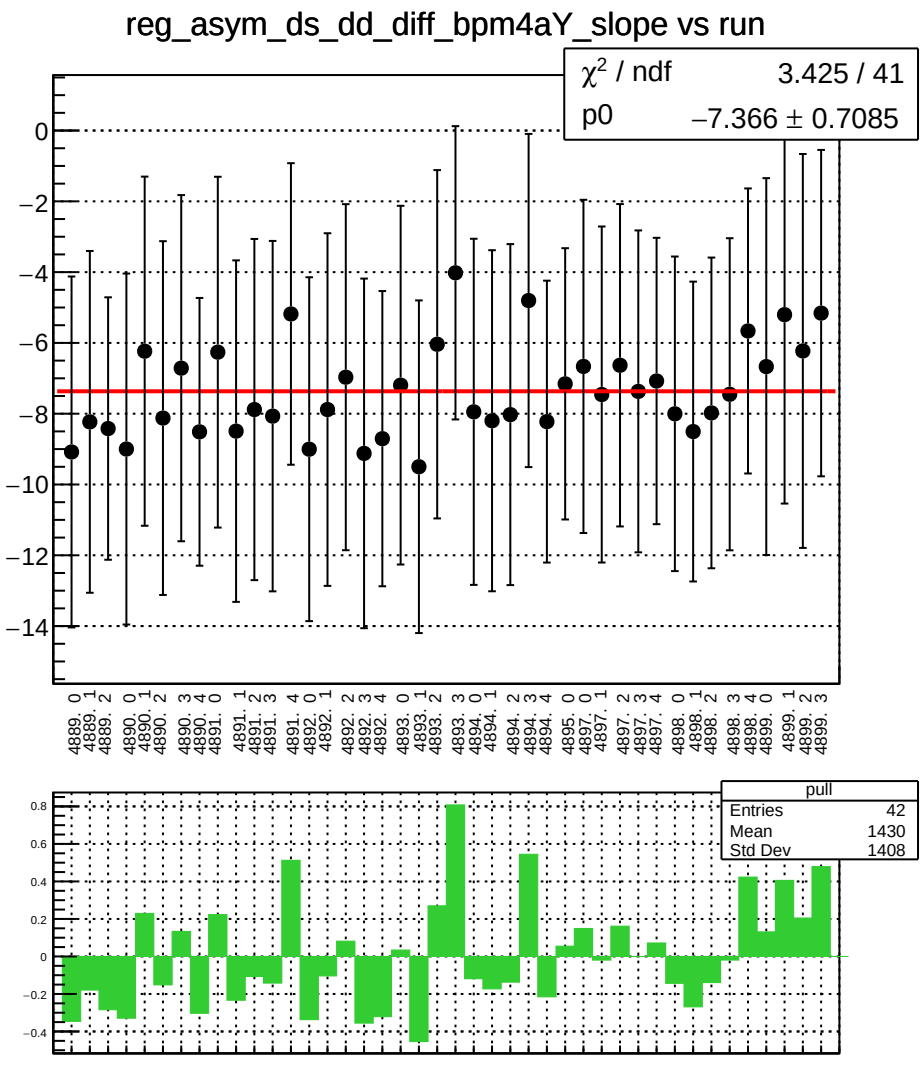

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.932 / 41
p0 14.84 ± 0.6966
pull
Entries 42
Mean −127.7
Std Dev 151.9

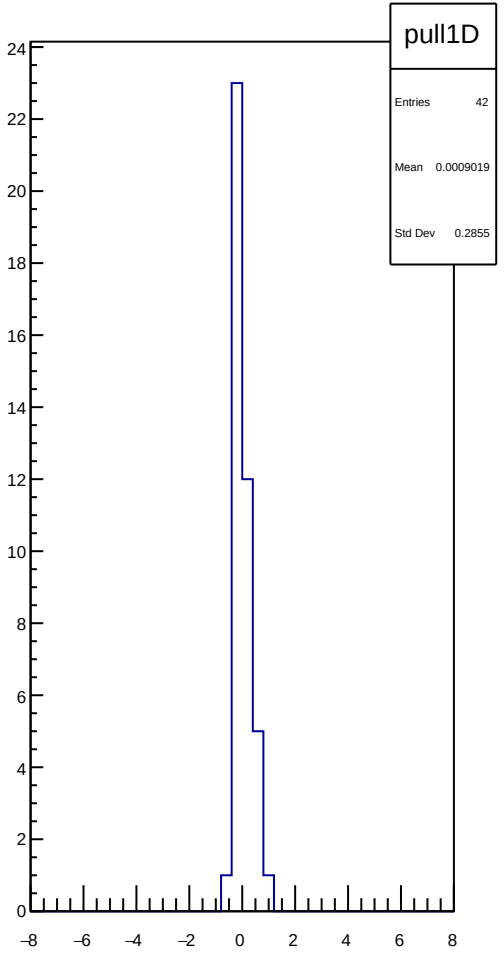

pull1D
Entries 42
Mean −0.02293
Std Dev 0.434

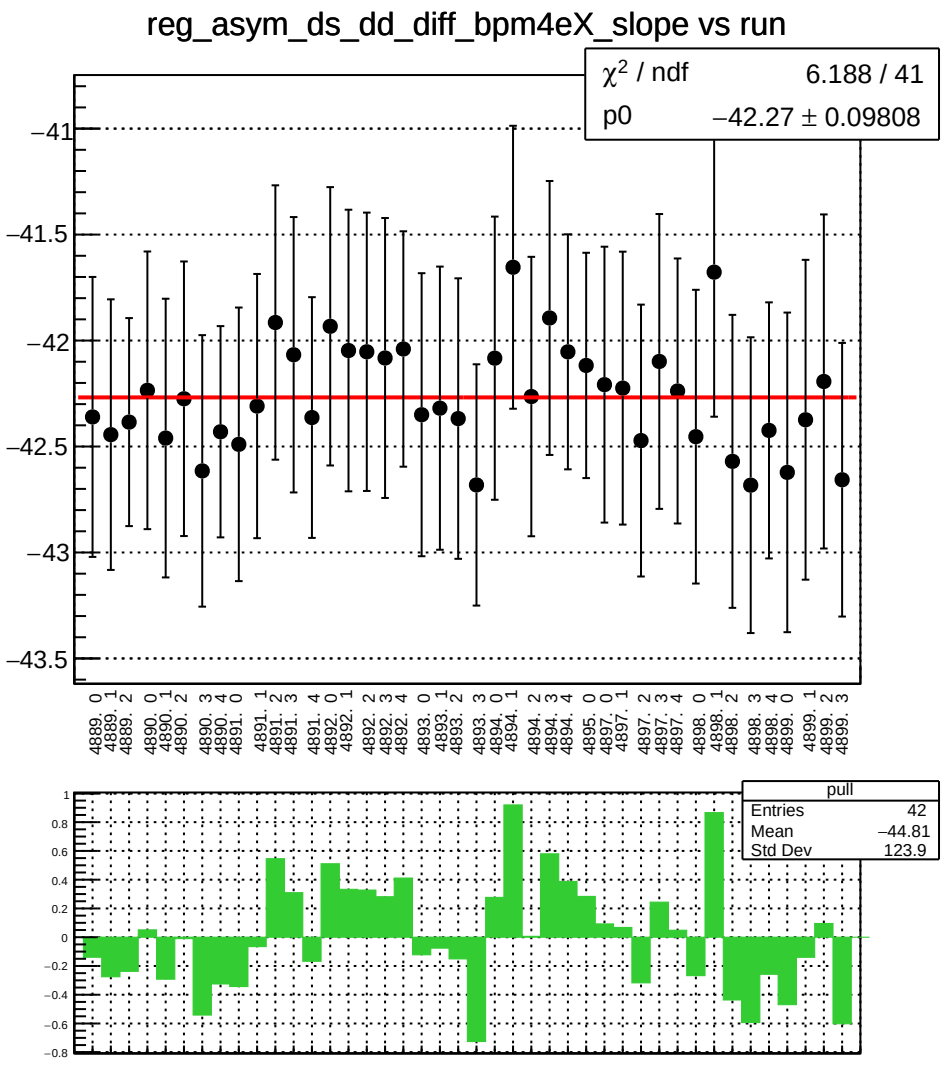

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 9.282 / 41
p0 −51.56 ± 0.1212
−49.5
−50
−50.5
−51
−51.5
−52
−52.5
−53
−53.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −221.8
Std Dev 242.7
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean 0.01785
Std Dev 0.4698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

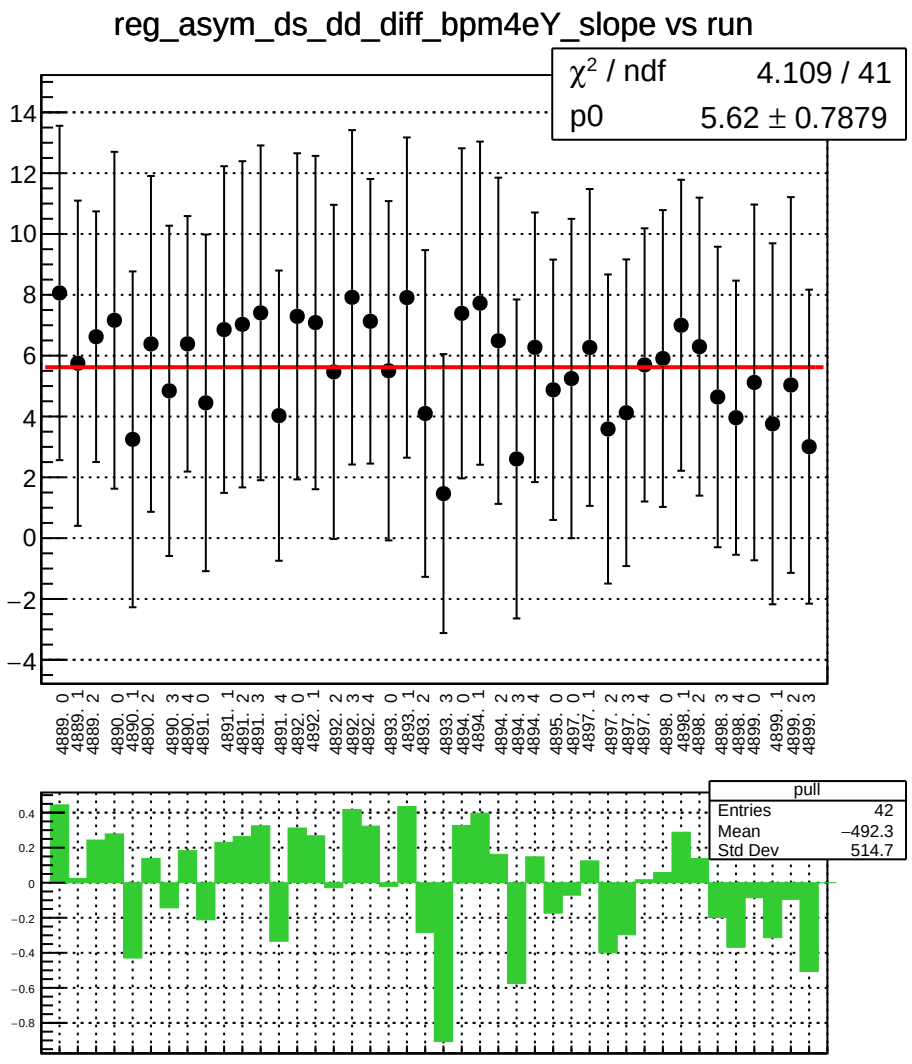

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.222 / 41
p0 26.36 ± 0.5211
pull
Entries 42
Mean −84.17
Std Dev 105.6

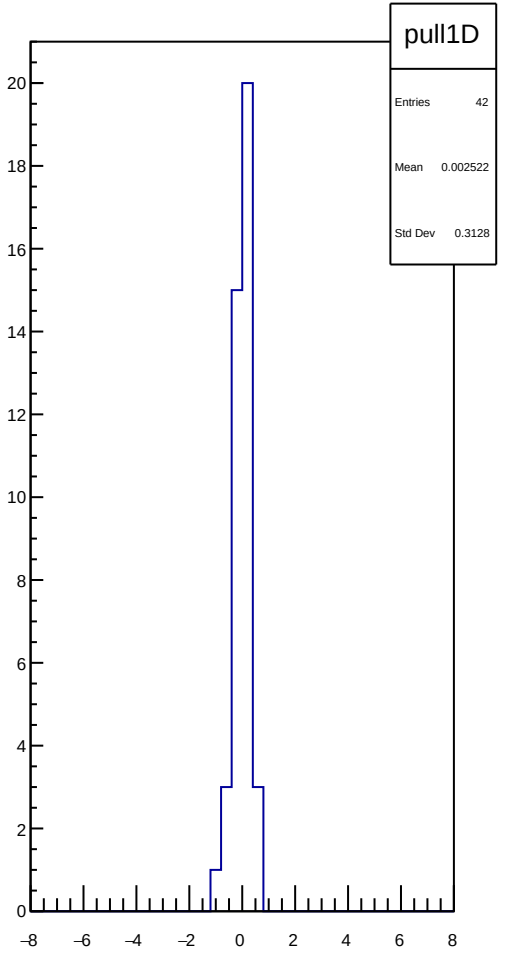

pull1D
Entries 42
Mean −0.0104
Std Dev 0.3848

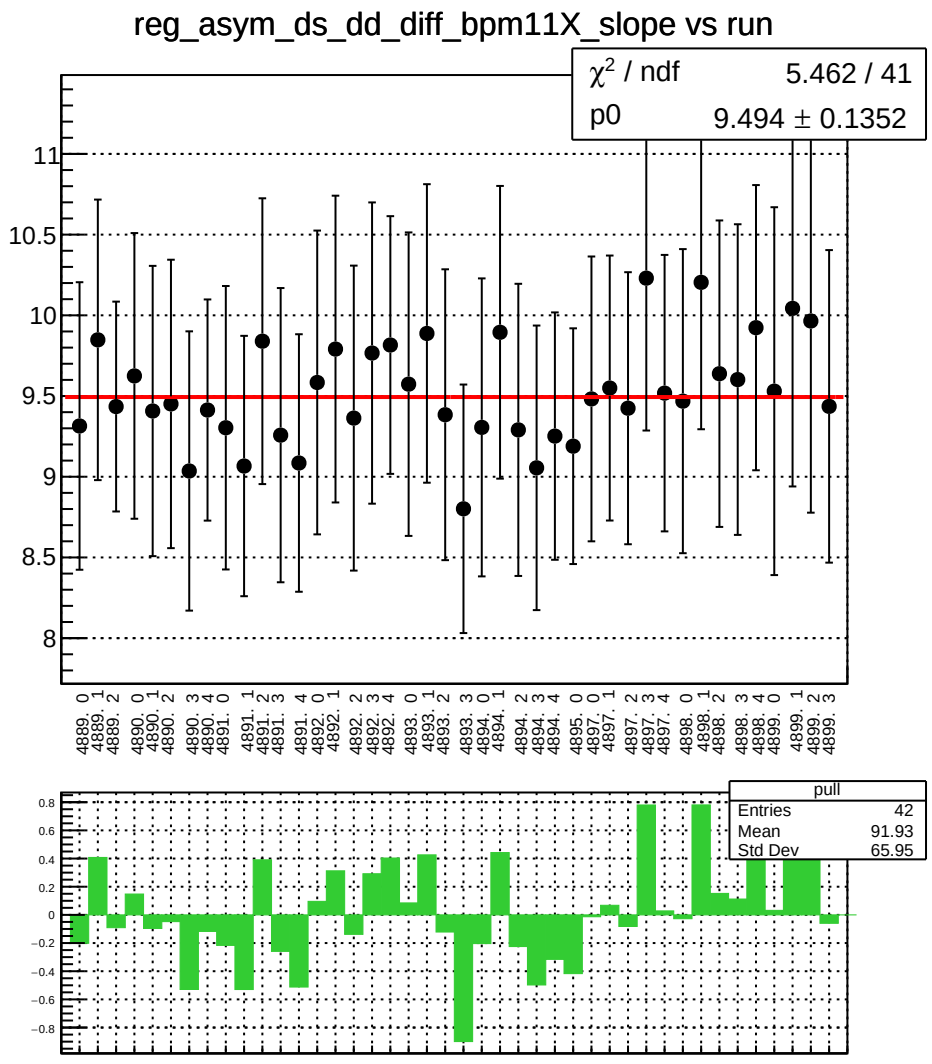

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.425 / 41
p0 −7.366 ± 0.7085
pull
Entries 42
Mean 1430
Std Dev 1408

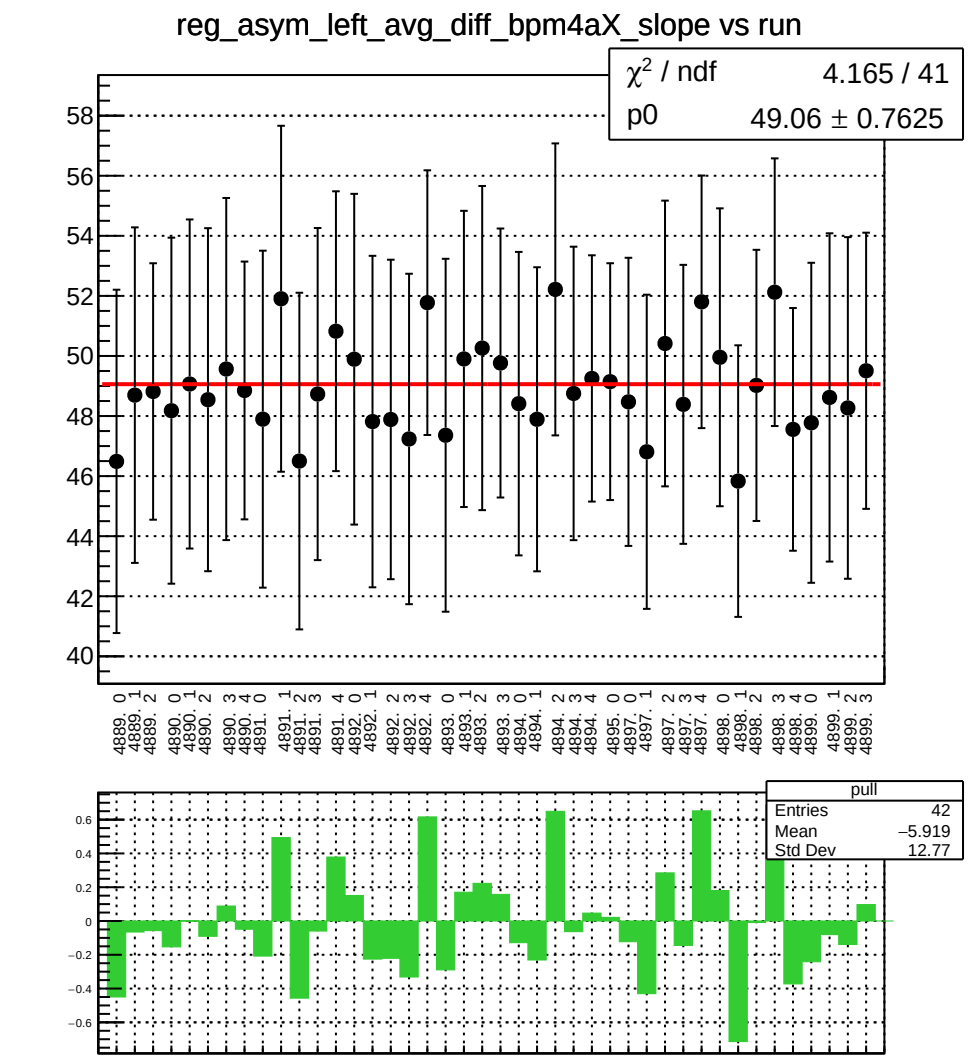

pull1D
Entries 42
Mean 0.0009019
Std Dev 0.2855

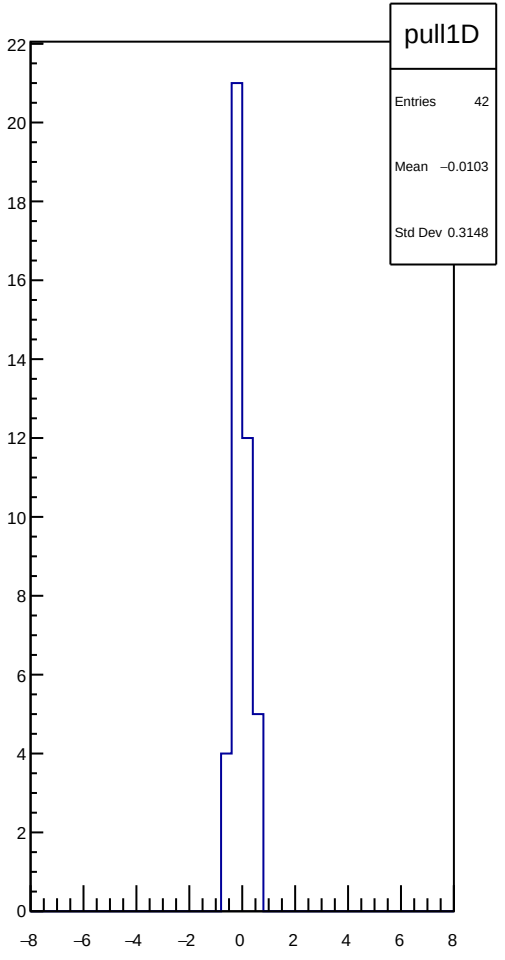

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.188 / 41
p0 −42.27 ± 0.09808
−41
−41.5
−42
−42.5
−43
−43.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −44.81
Std Dev 123.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean 0.002045
Std Dev 0.3838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

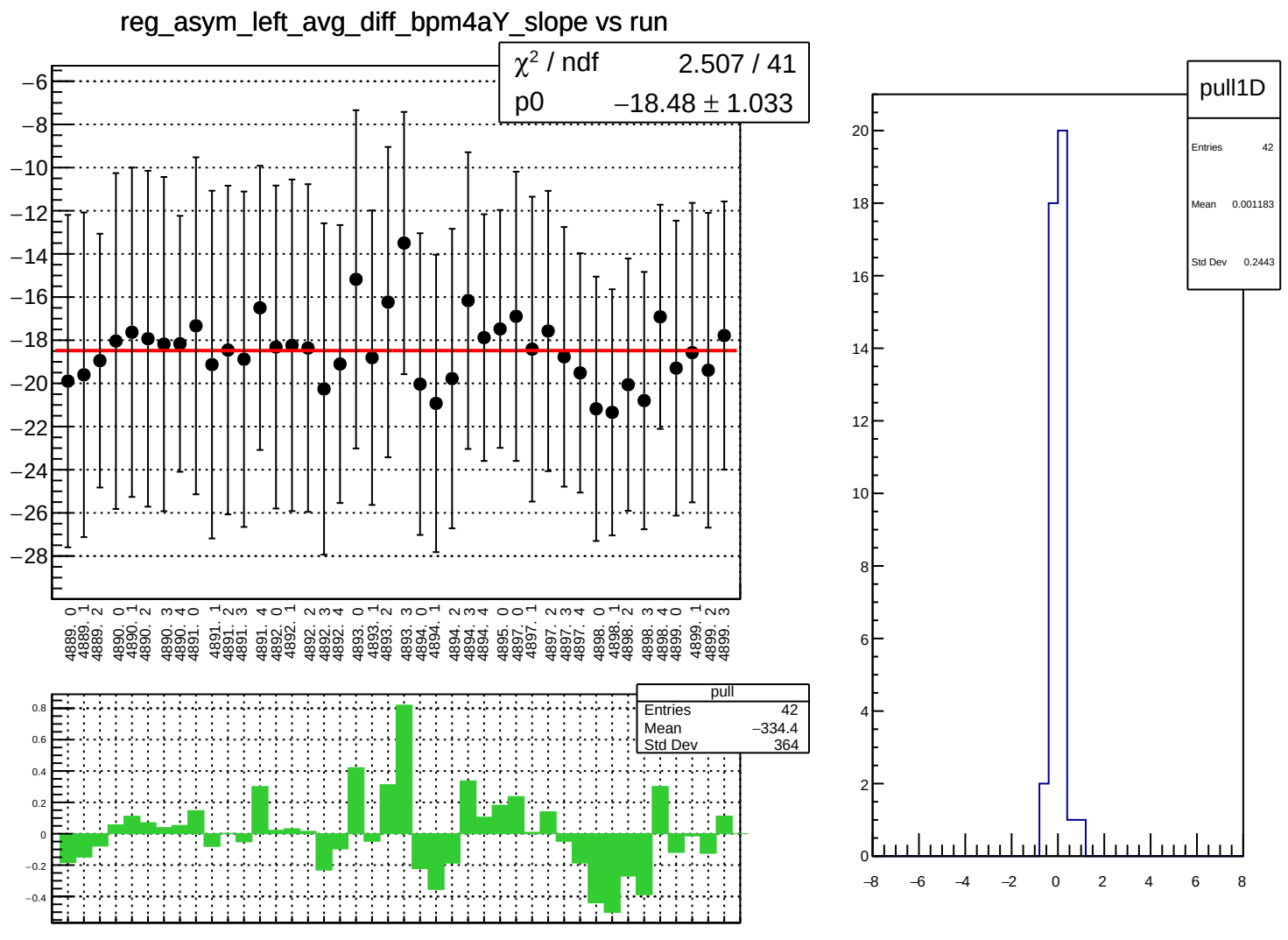

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.109 / 41
p0 5.62 ± 0.7879
pull
Entries 42
Mean −492.3
Std Dev 514.7

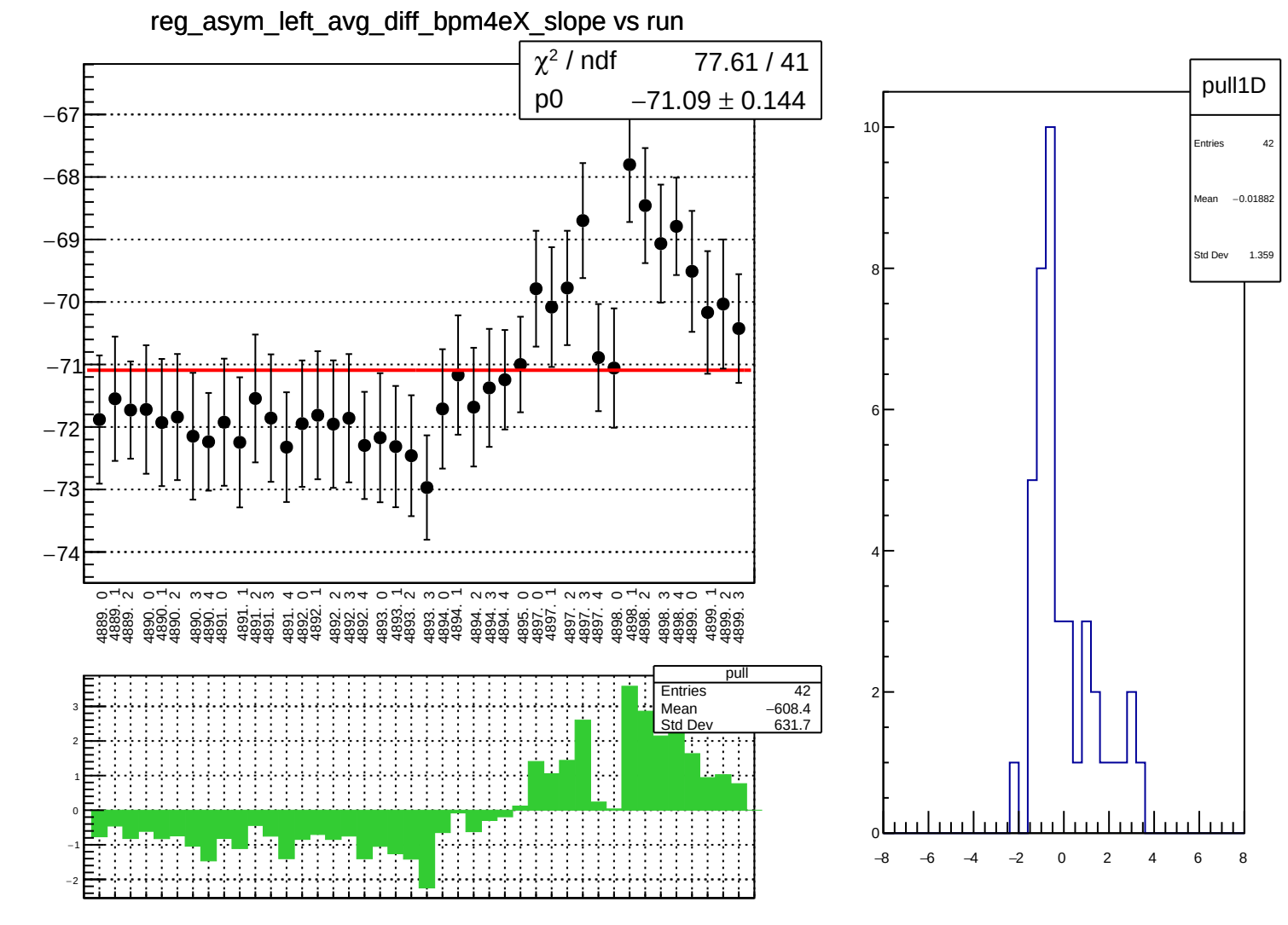

pull1D
Entries 42
Mean 0.002522
Std Dev 0.3128

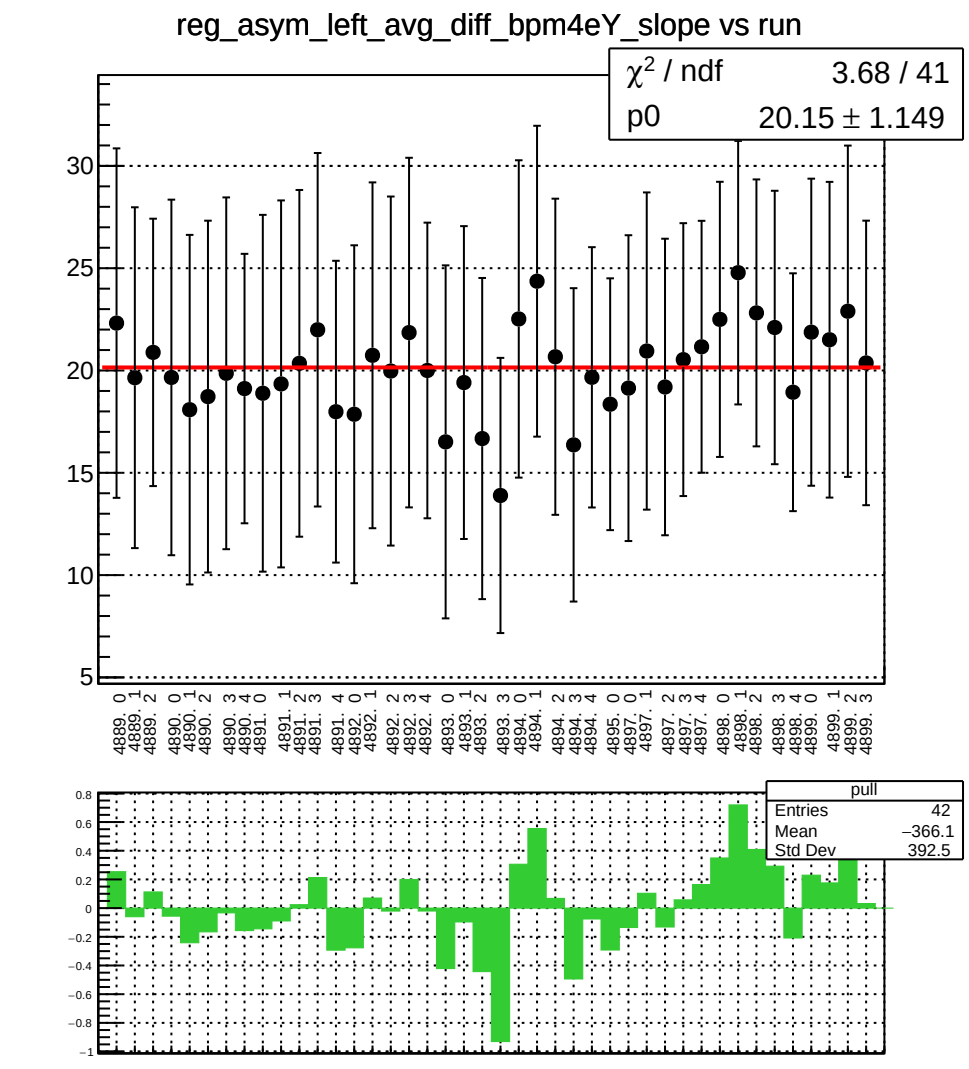

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 5.462 / 41
p0 9.494 ± 0.1352
11
10.5
10
9.5
9
8.5
8
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 91.93
Std Dev 65.95
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean 0.0176
Std Dev 0.3602
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

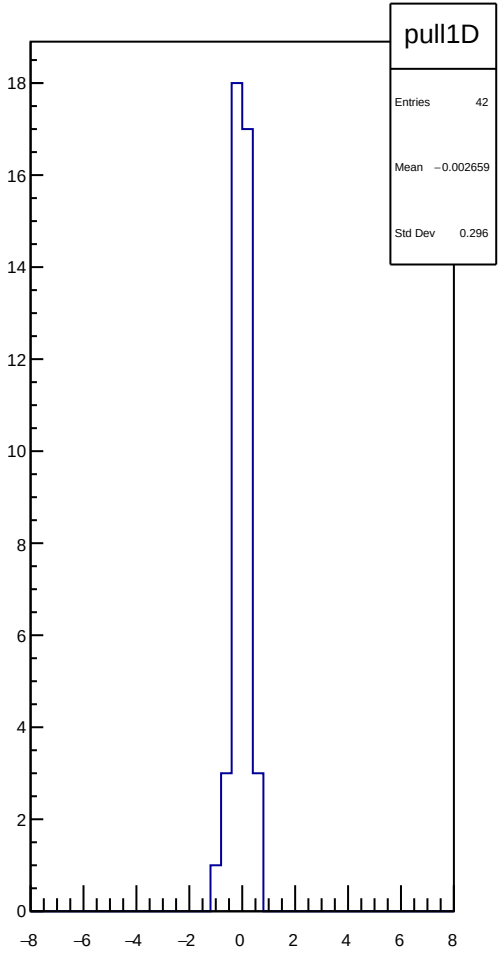

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.165 / 41
p0 49.06 ± 0.7625
pull
Entries 42
Mean −5.919
Std Dev 12.77

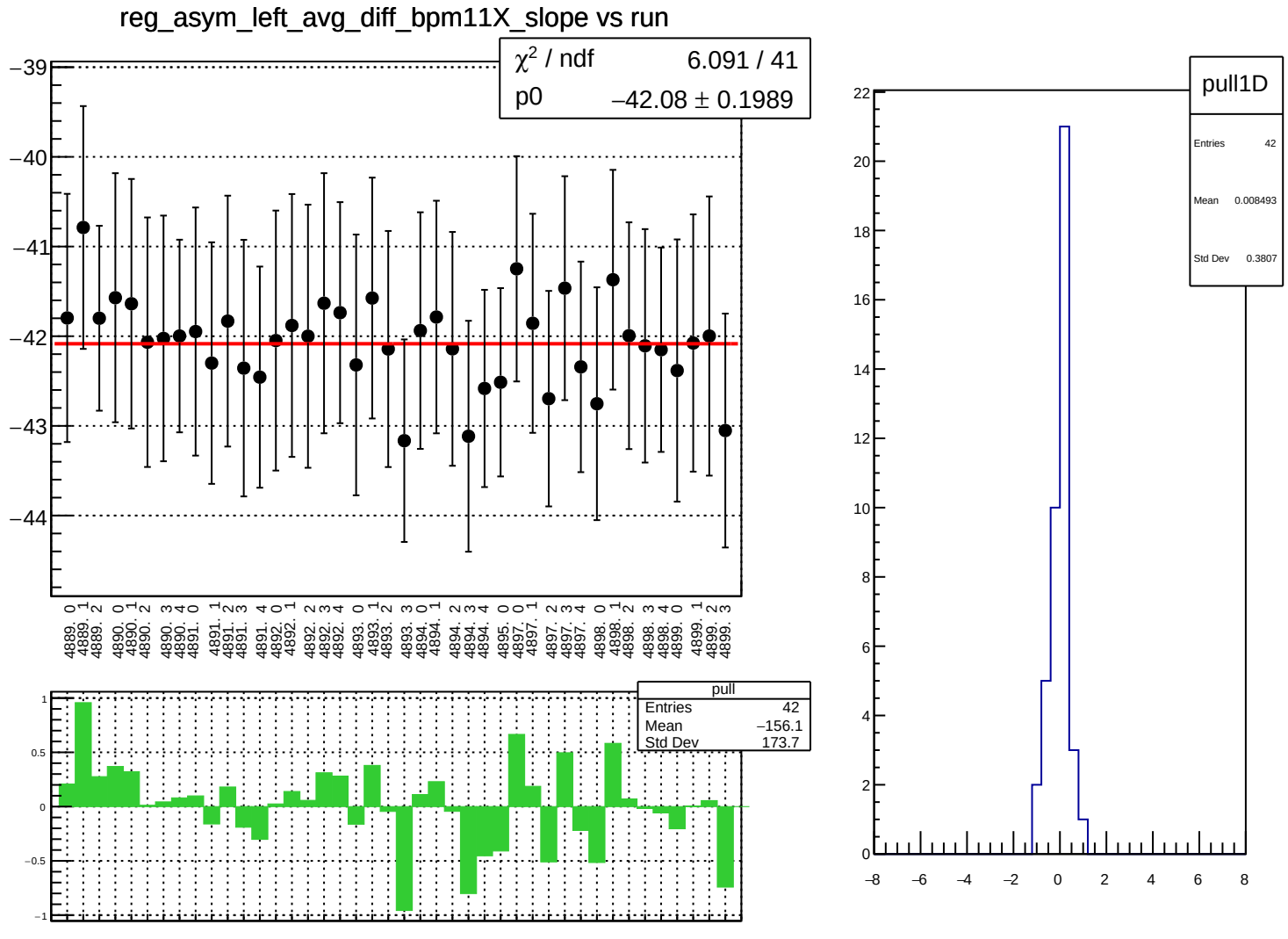

pull1D
Entries 42
Mean −0.0103
Std Dev 0.3148

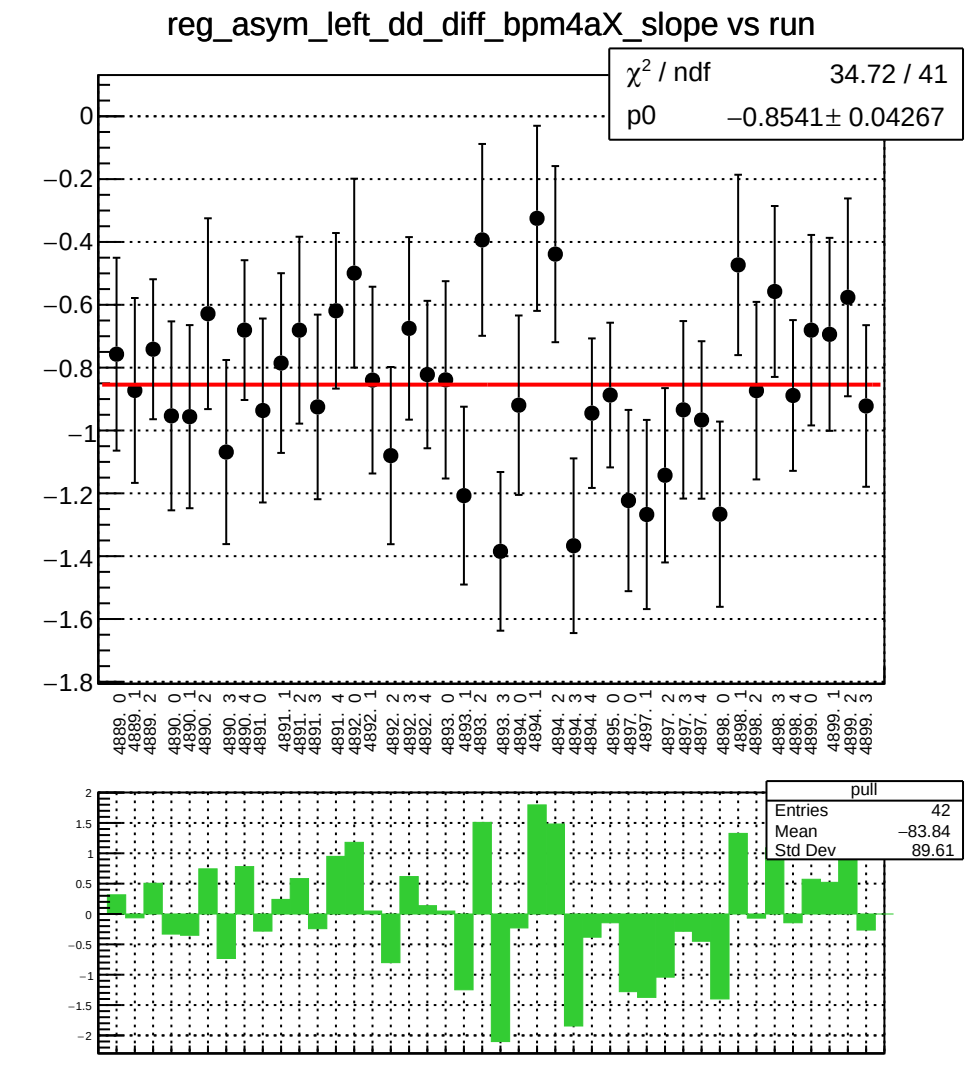

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.507 / 41
p0 −18.48 ± 1.033
pull
Entries 42
Mean −334.4
Std Dev 364
pull1D
Entries 42
Mean 0.001183
Std Dev 0.2443

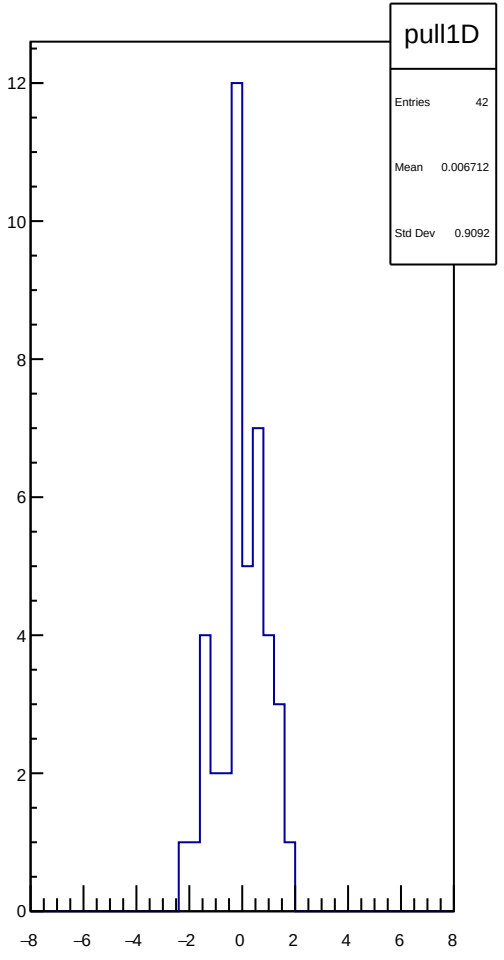

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.61 / 41
p0 −71.09 ± 0.144
pull
Entries 42
Mean −608.4
Std Dev 631.7
pull1D
Entries 42
Mean −0.01882
Std Dev 1.359

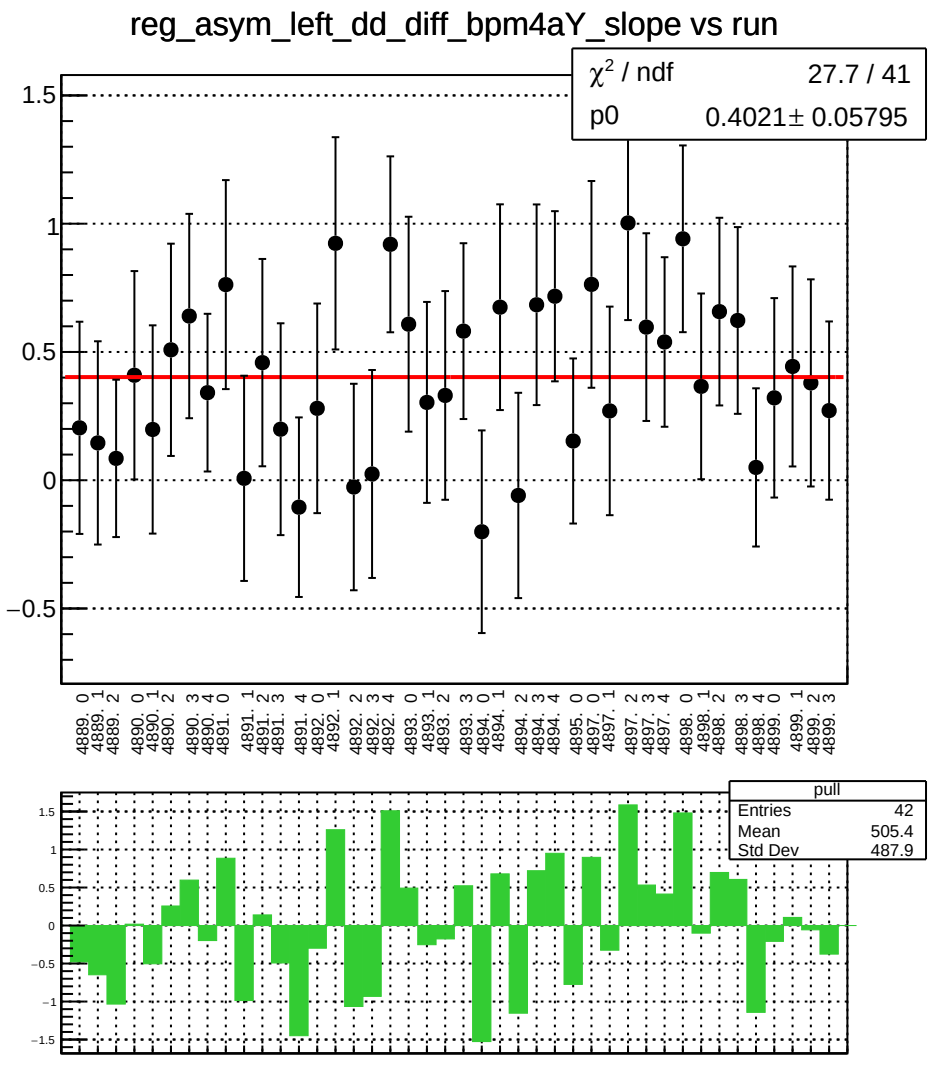

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 3.68 / 41
p0 20.15 ± 1.149
pull
Entries 42
Mean −366.1
Std Dev 392.5

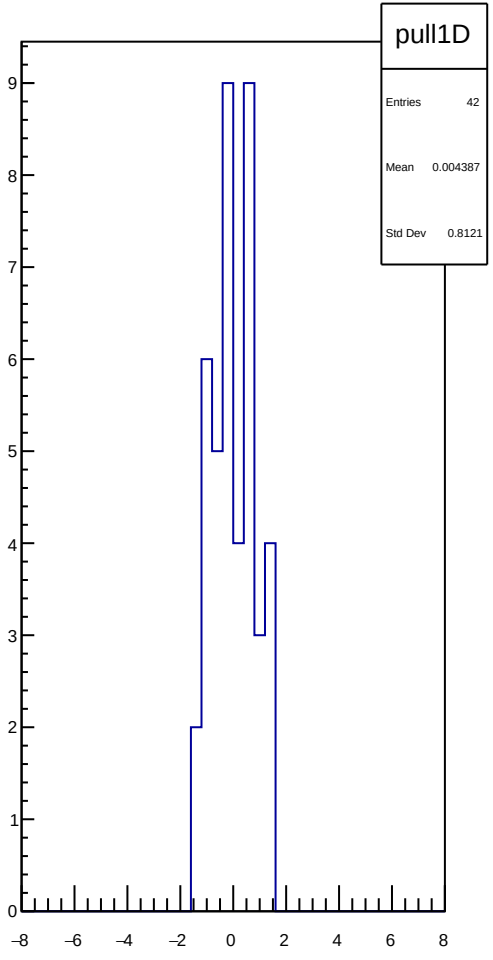

pull1D
Entries 42
Mean −0.002659
Std Dev 0.296

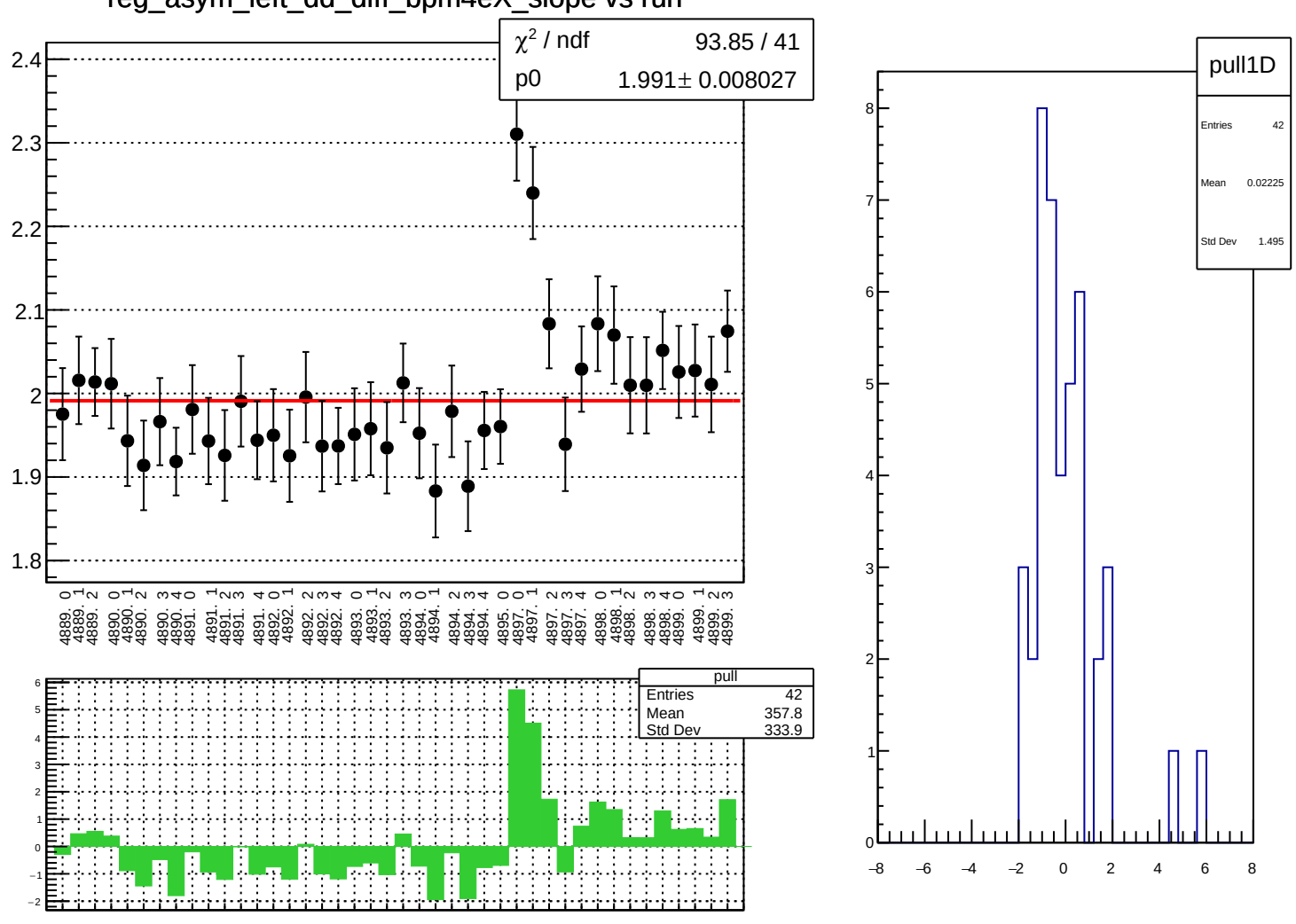

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 6.091 / 41
p0 −42.08 ± 0.1989
pull
Entries 42
Mean −156.1
Std Dev 173.7
pull1D
Entries 42
Mean 0.008493
Std Dev 0.3807

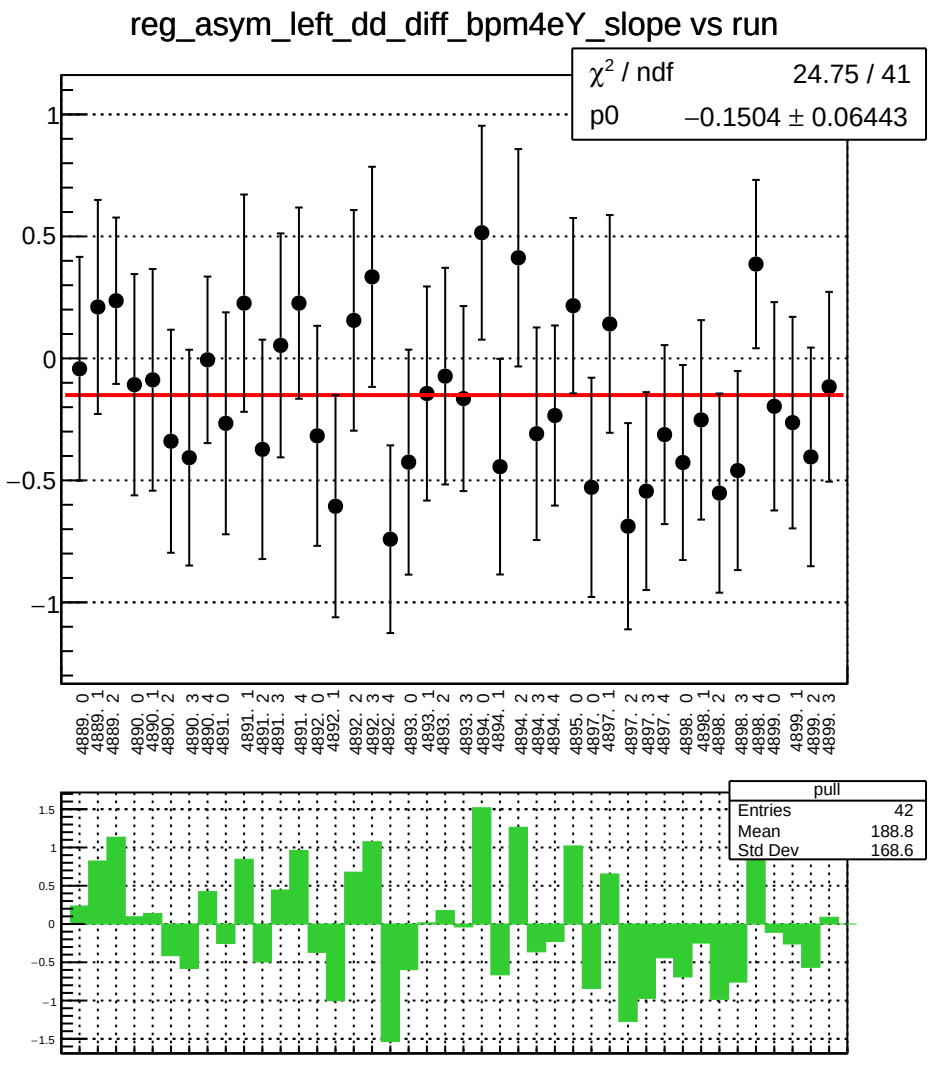

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.72 / 41
p0 −0.8541 ± 0.04267
pull
Entries 42
Mean −83.84
Std Dev 89.61

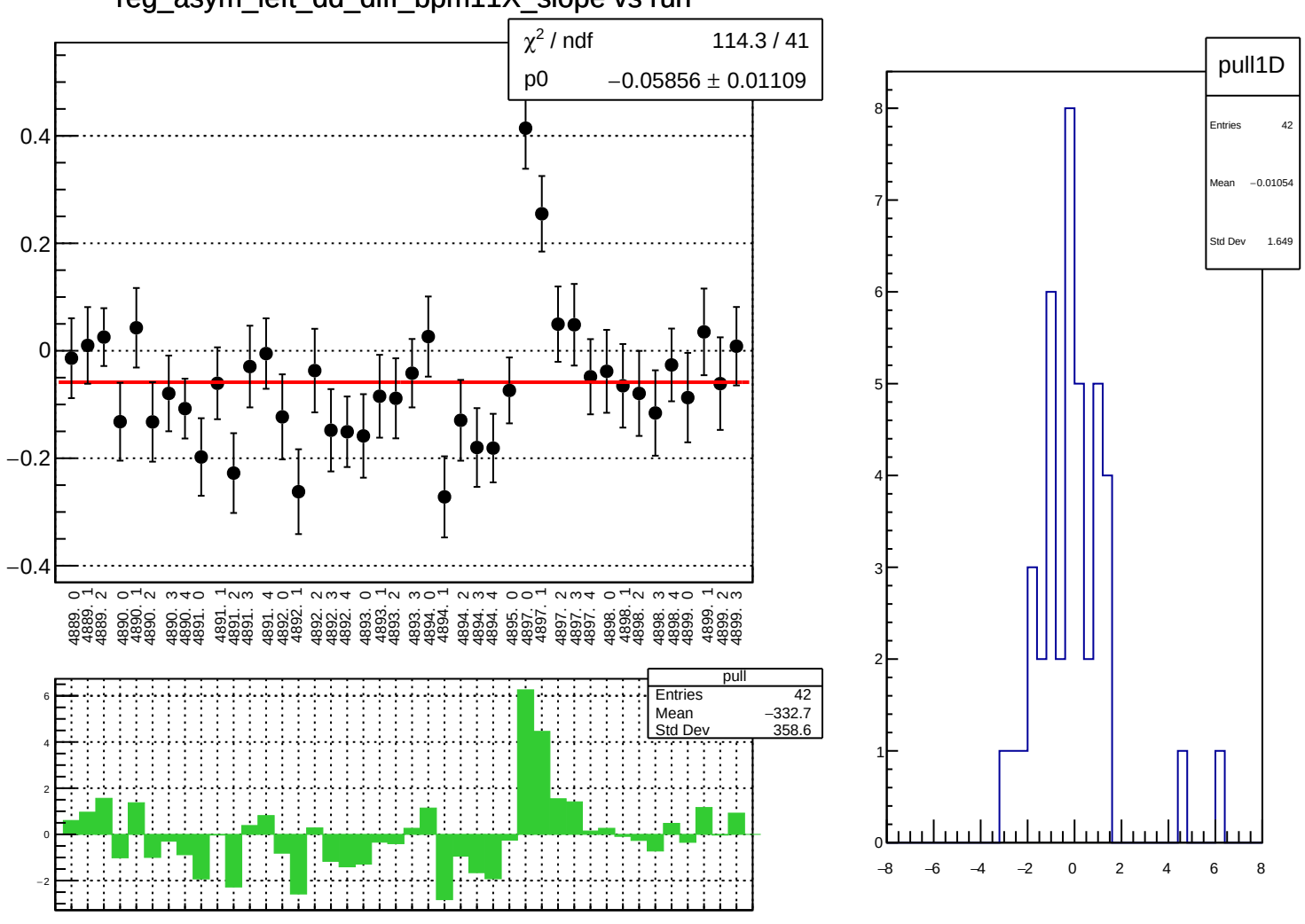

pull1D
Entries 42
Mean 0.006712
Std Dev 0.9092

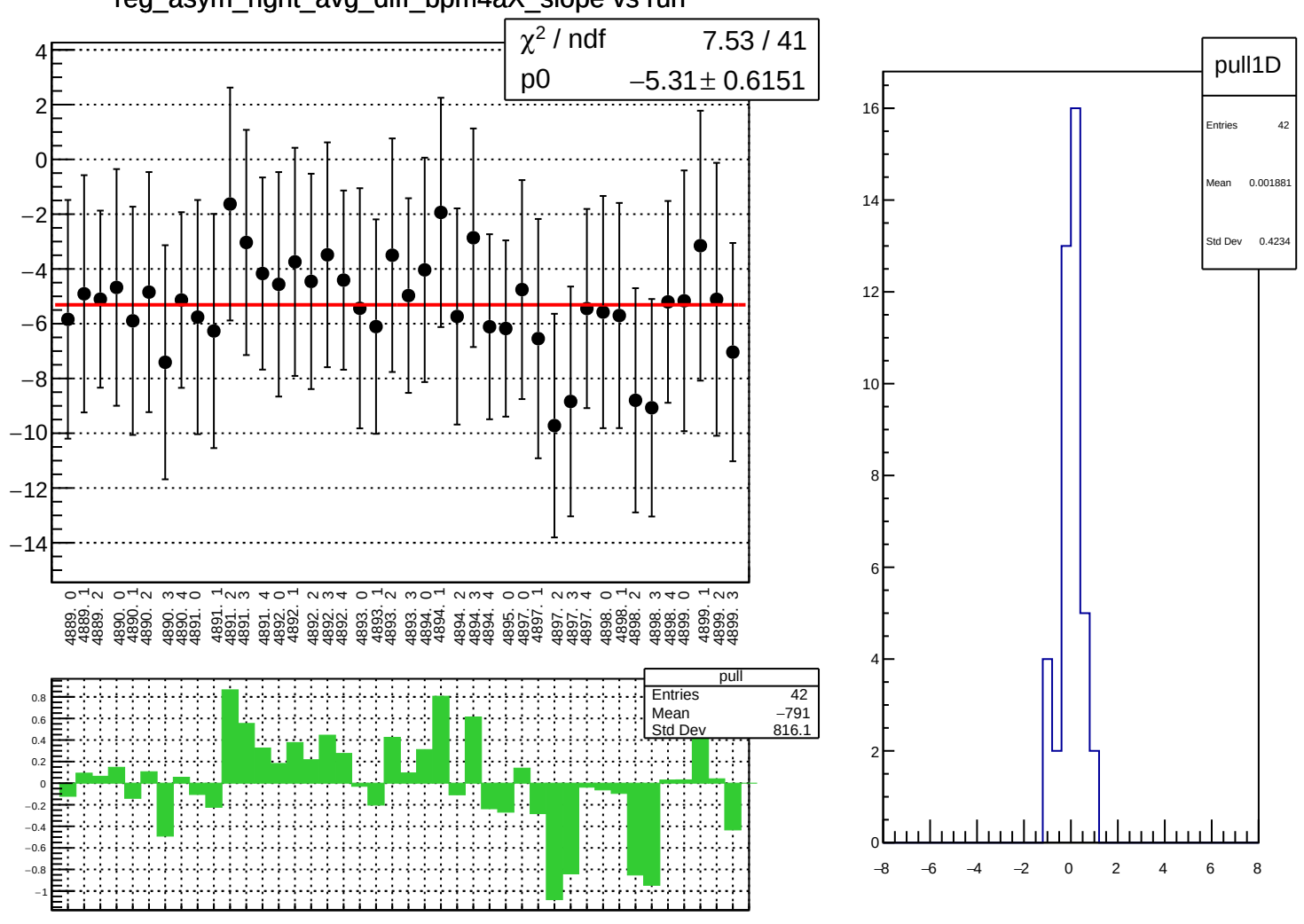

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.7 / 41
p0 0.4021± 0.05795
1.5
1
0.5
0
−0.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 505.4
Std Dev 487.9
1.5
1
0.5
0
−0.5
−1
−1.5

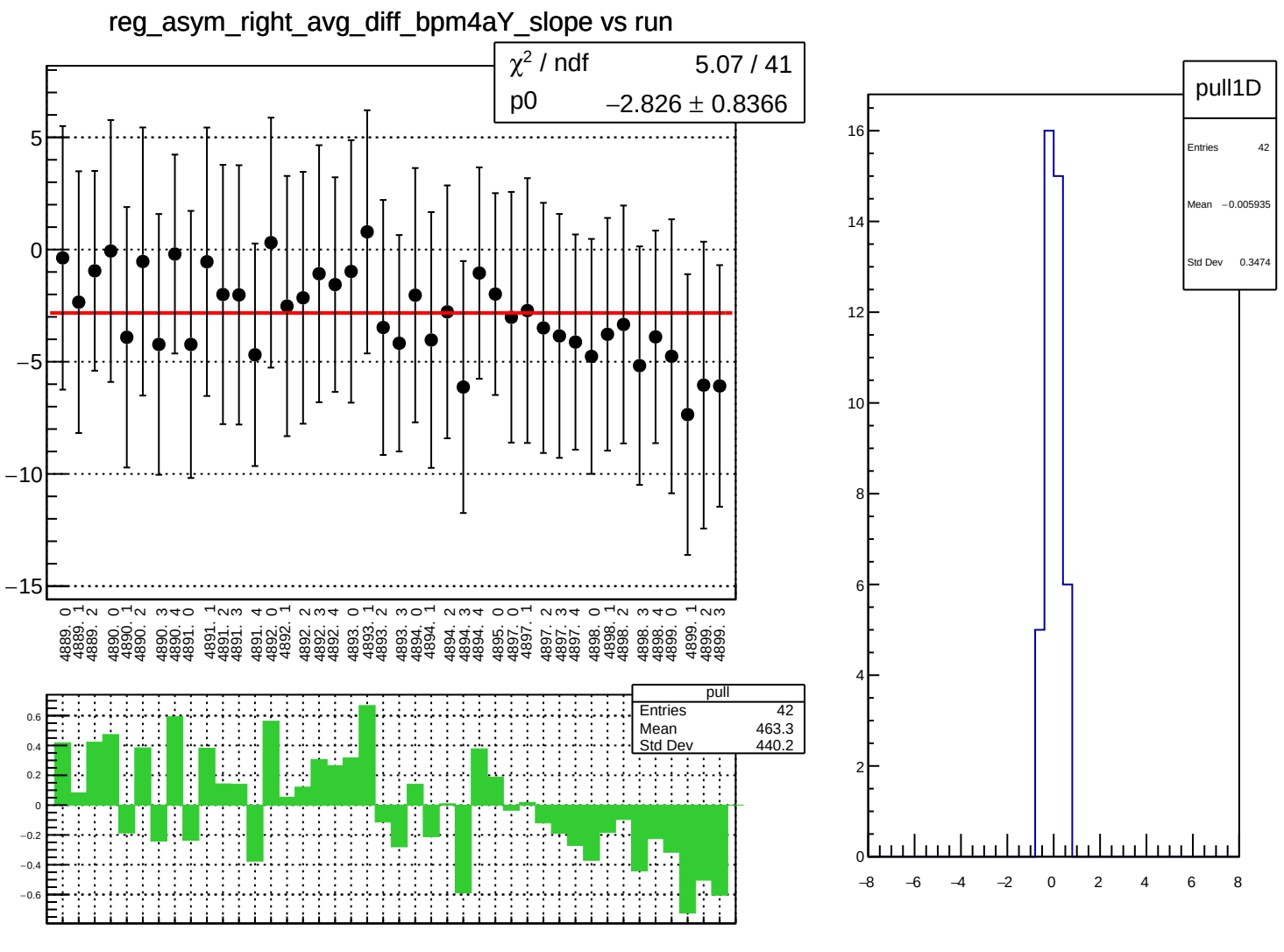

pull1D
Entries 42
Mean 0.004387
Std Dev 0.8121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

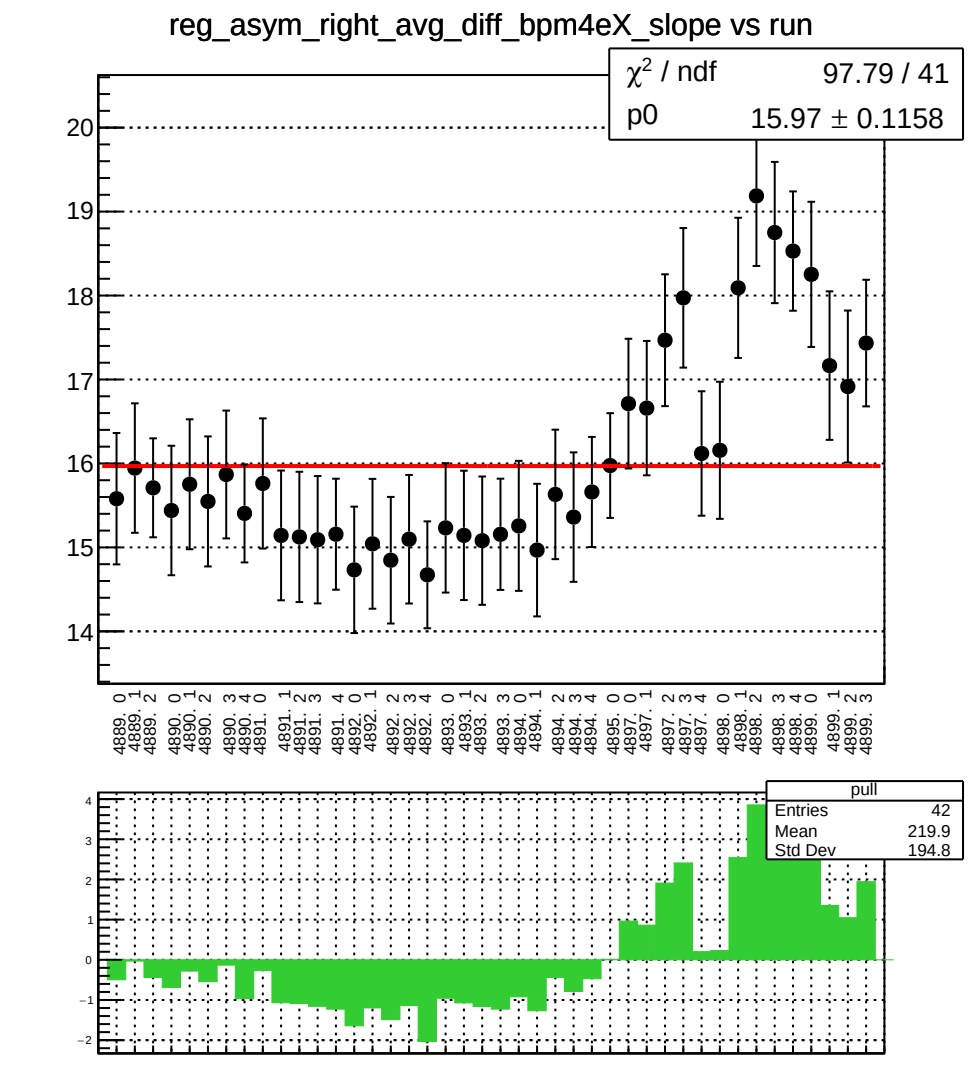

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.85 / 41
p0 1.991± 0.008027
2.4
2.3
2.2
2.1
2
1.9
1.8
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 357.8
Std Dev 333.9
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.02225
Std Dev 1.495
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

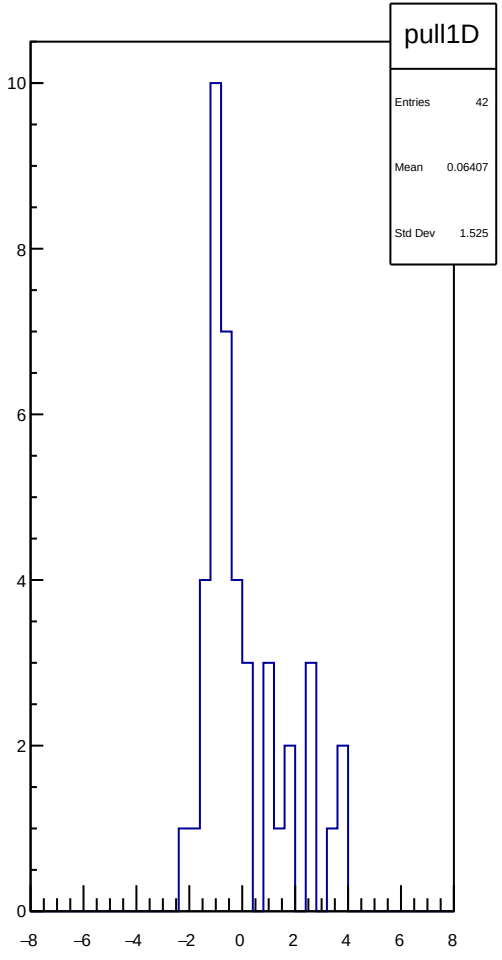

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.75 / 41
p0 −0.1504 ± 0.06443
pull
Entries 42
Mean 188.8
Std Dev 168.6
pull1D
Entries 42
Mean −0.01285
Std Dev 0.7675

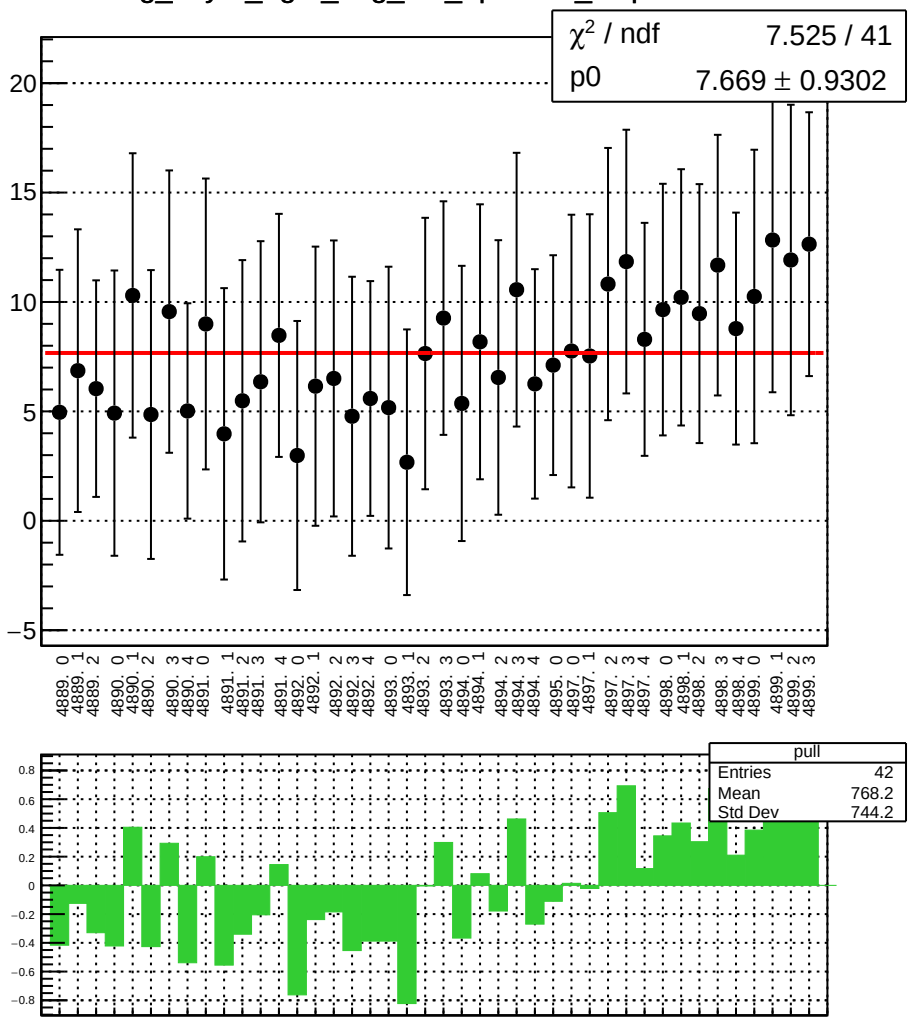

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 114.3 / 41
p0 −0.05856 ± 0.01109
0.4
0.2
0
−0.2
−0.4
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −332.7
Std Dev 358.6
6
4
2
0
−2
pull1D
Entries 42
Mean −0.01054
Std Dev 1.649
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

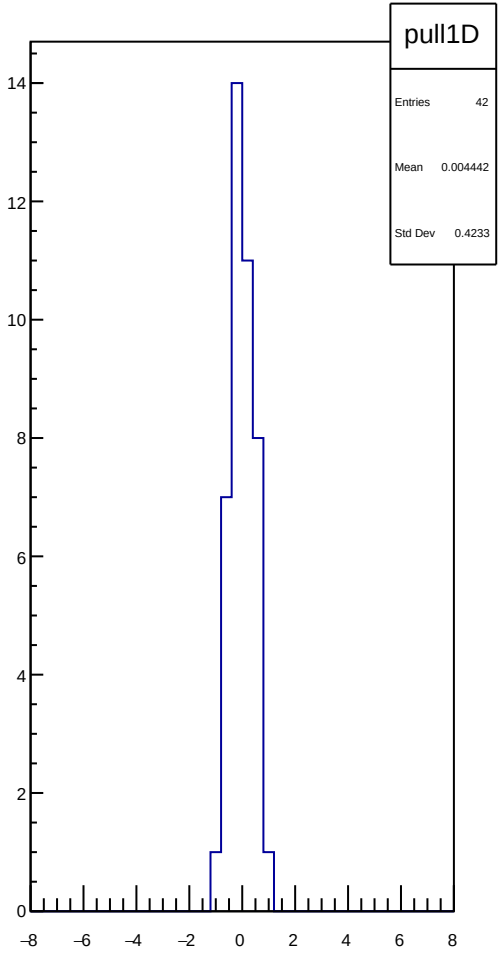

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.53 / 41
p0 −5.31 ± 0.6151
pull
Entries 42
Mean −791
Std Dev 816.1
pull1D
Entries 42
Mean 0.001881
Std Dev 0.4234

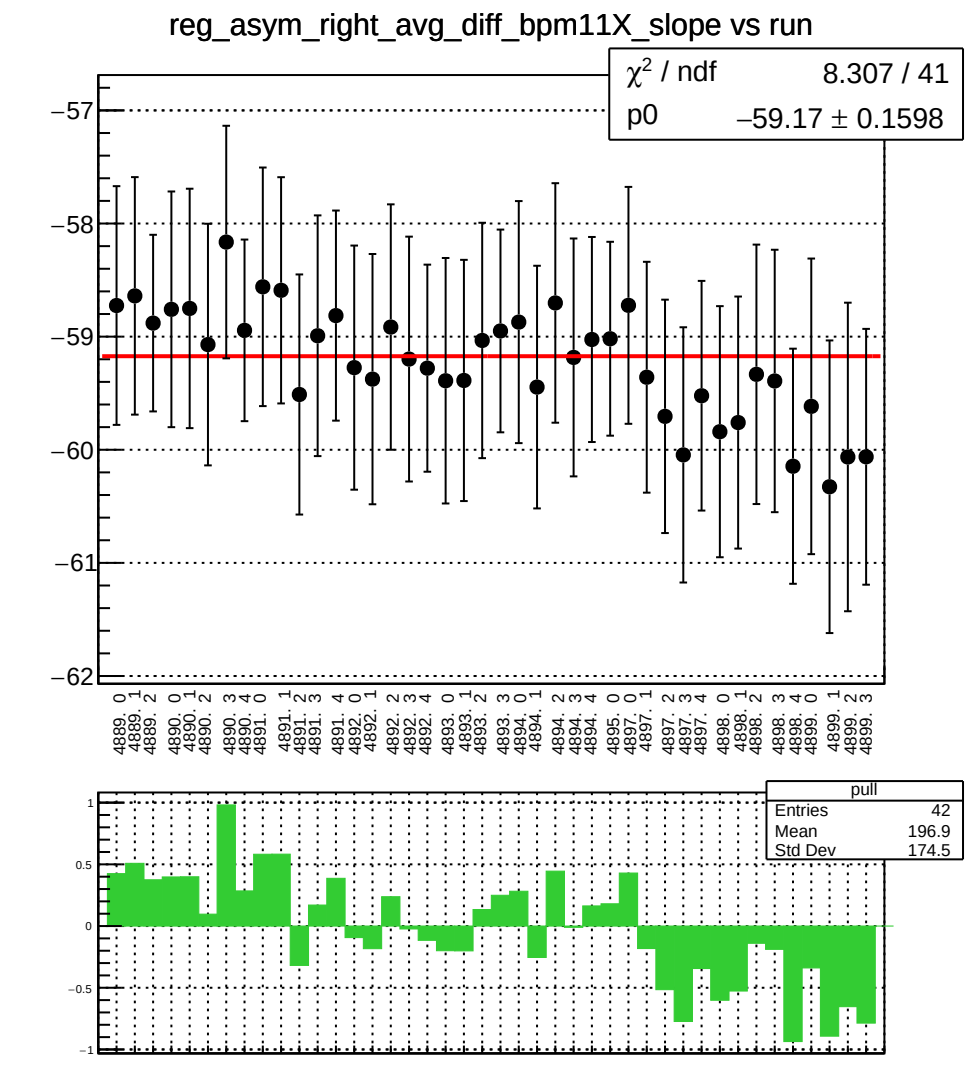

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.07 / 41
p0 −2.826 ± 0.8366
pull
Entries 42
Mean 463.3
Std Dev 440.2
pull1D
Entries 42
Mean −0.005935
Std Dev 0.3474

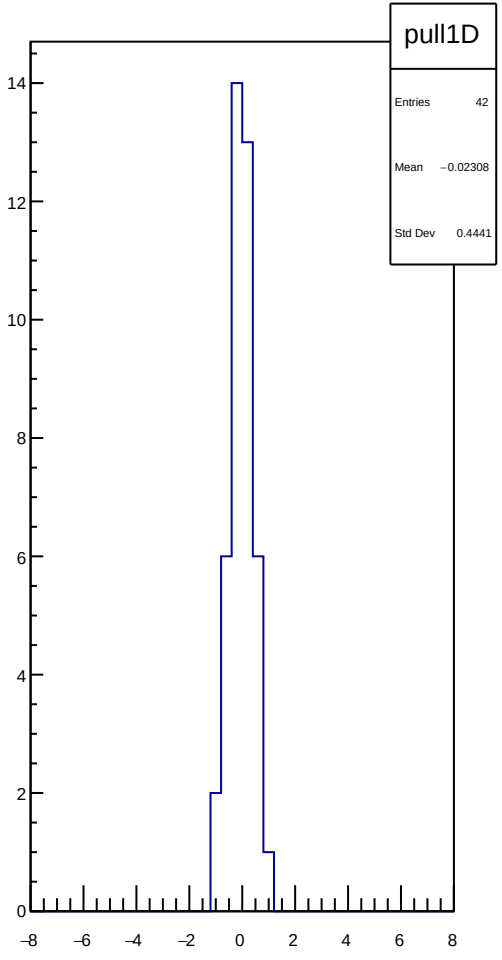

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.79 / 41
p0 15.97 ± 0.1158
pull
Entries 42
Mean 219.9
Std Dev 194.8

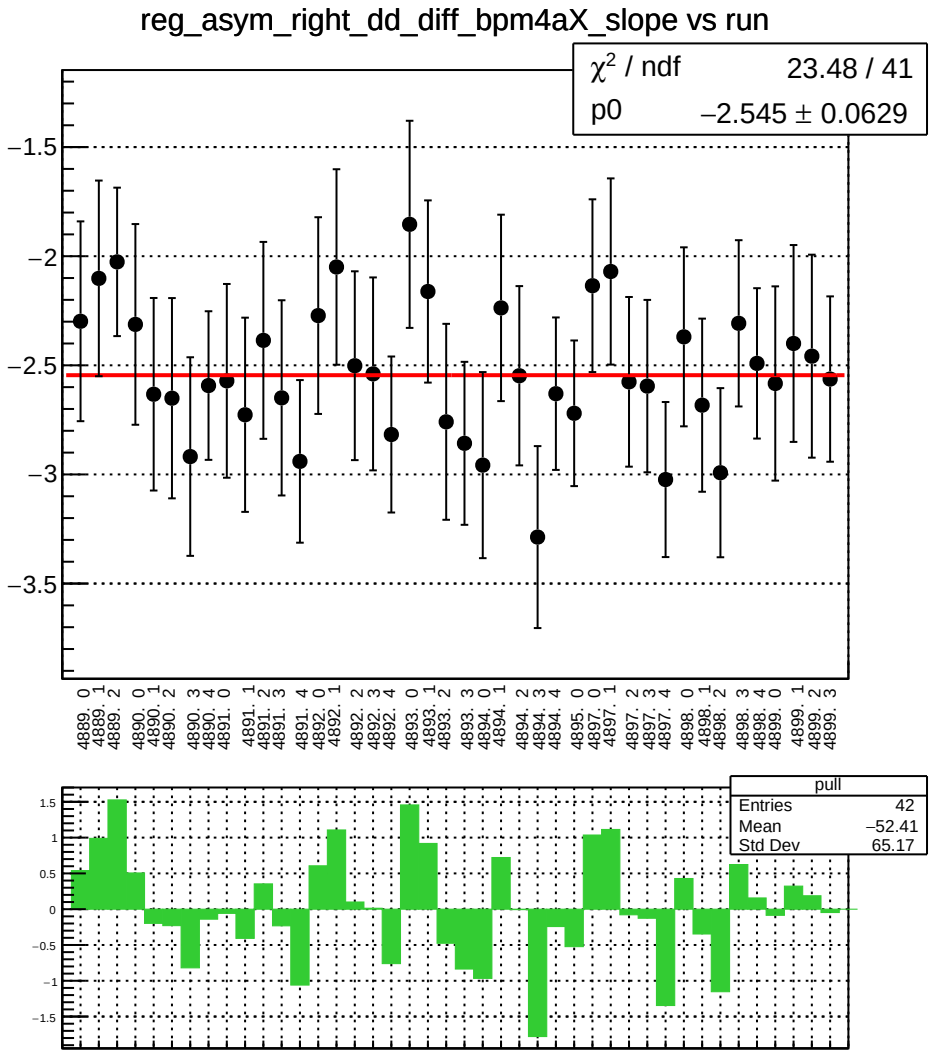

pull1D
Entries 42
Mean 0.06407
Std Dev 1.525

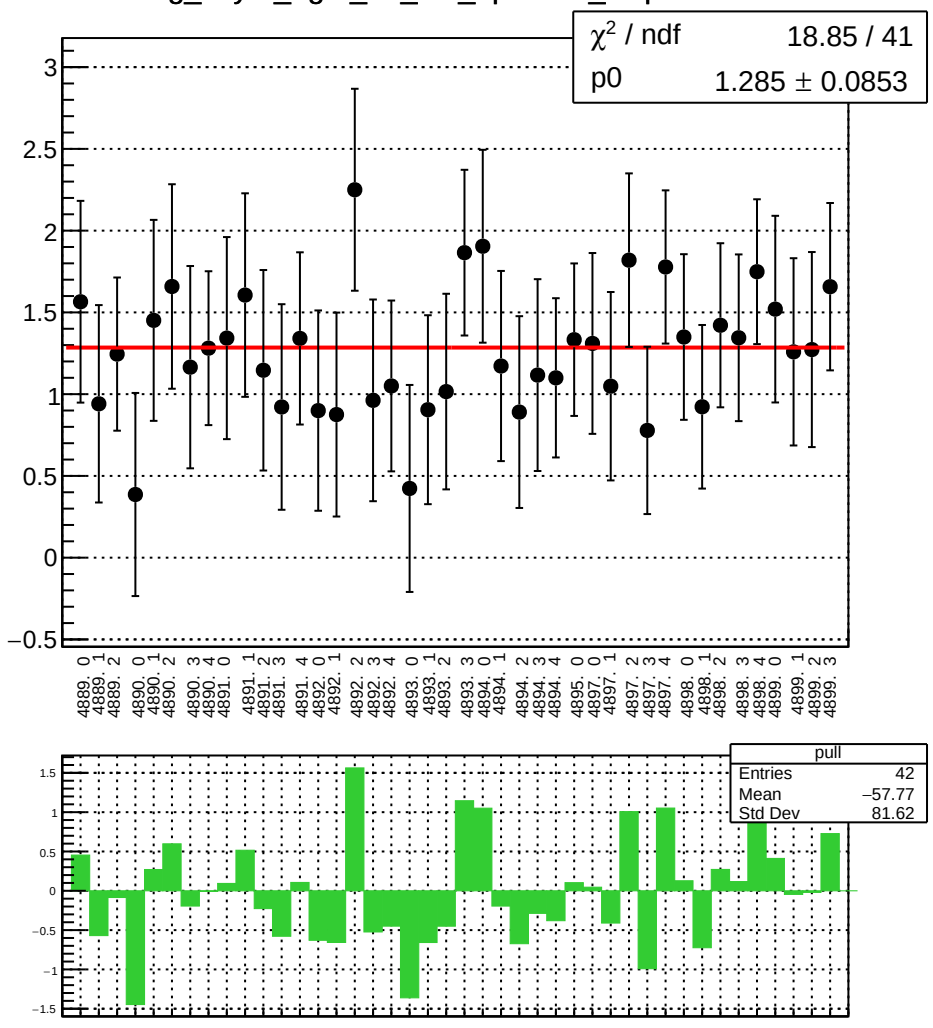

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.525 / 41
p0 7.669 ± 0.9302
pull
Entries 42
Mean 768.2
Std Dev 744.2

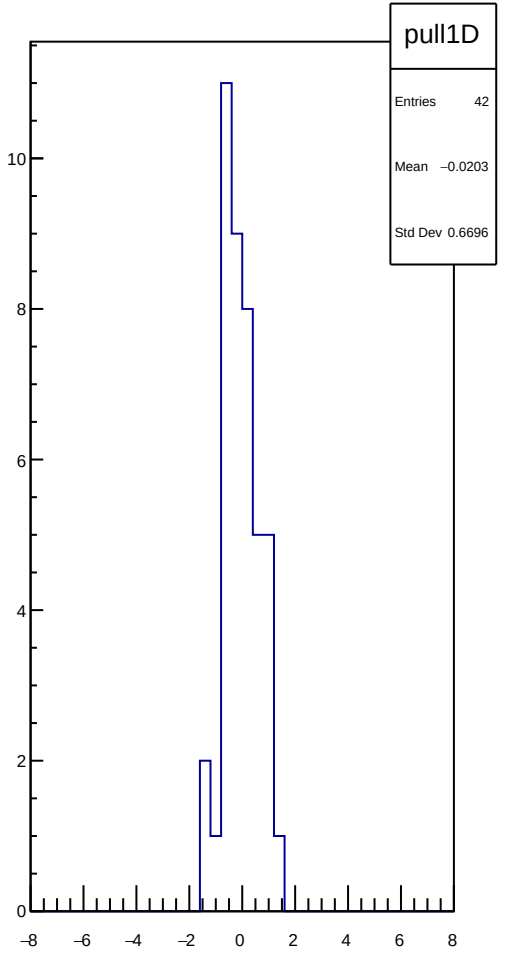

pull1D
Entries 42
Mean 0.004442
Std Dev 0.4233

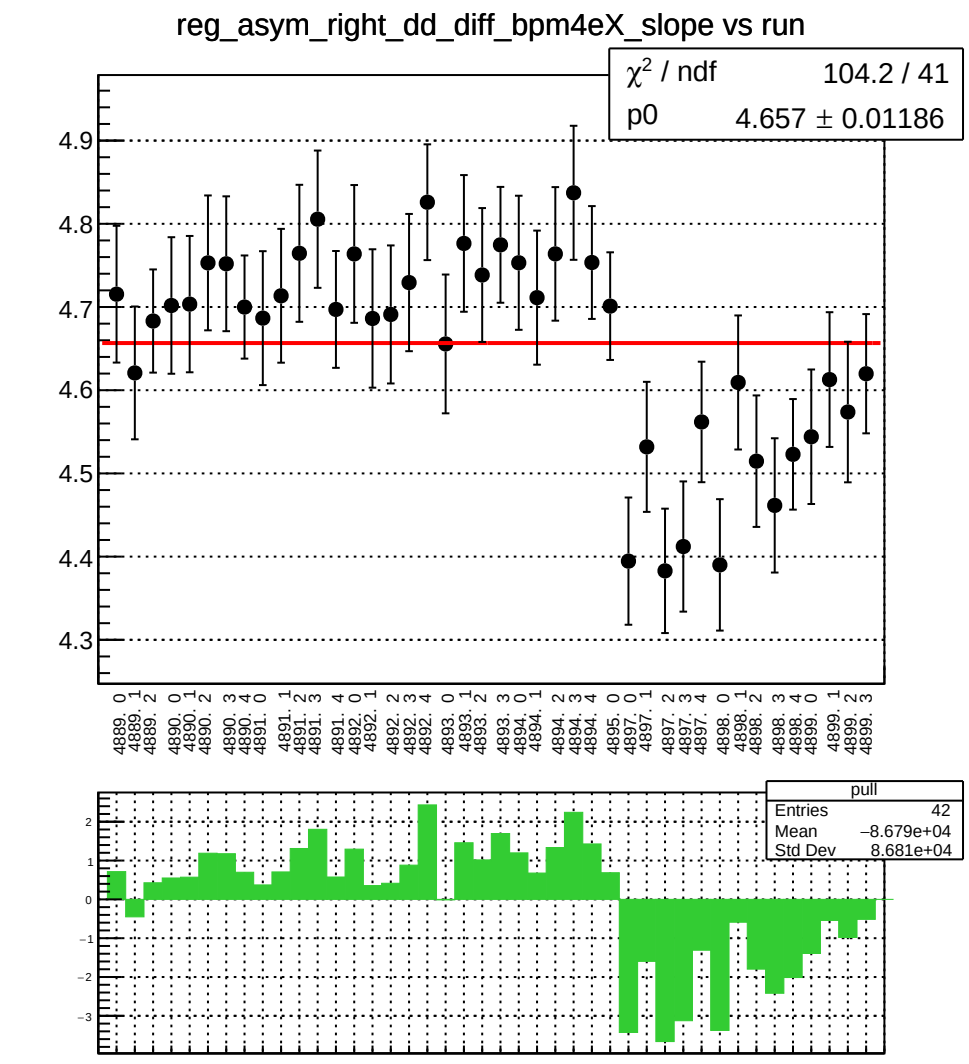

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 8.307 / 41
p0 −59.17 ± 0.1598
pull
Entries 42
Mean 196.9
Std Dev 174.5

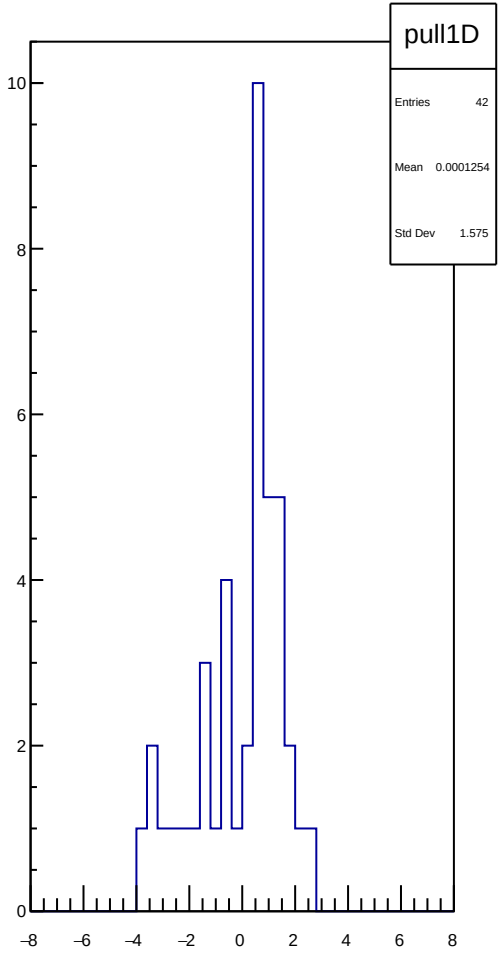

pull1D
Entries 42
Mean −0.02308
Std Dev 0.4441

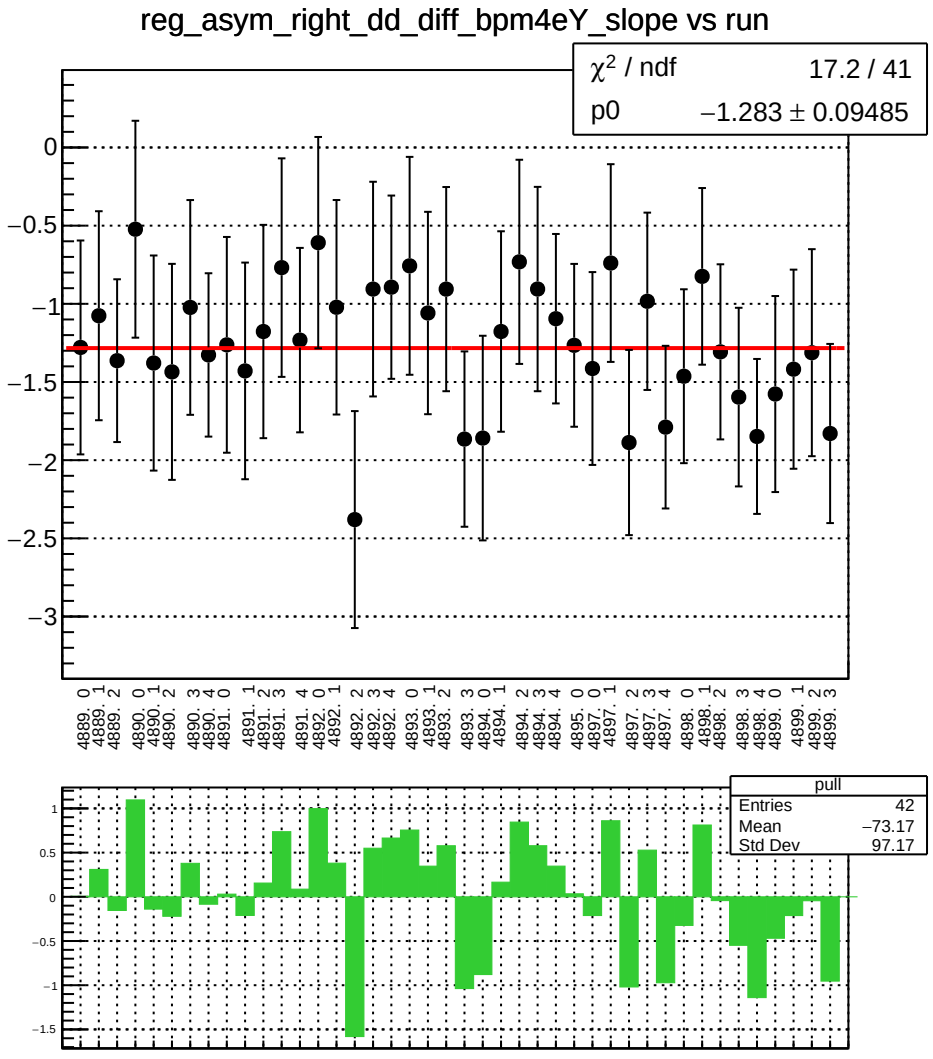

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.48 / 41
p0 −2.545 ± 0.0629
−1.5
−2
−2.5
−3
−3.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −52.41
Std Dev 65.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.01887
Std Dev 0.7475
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

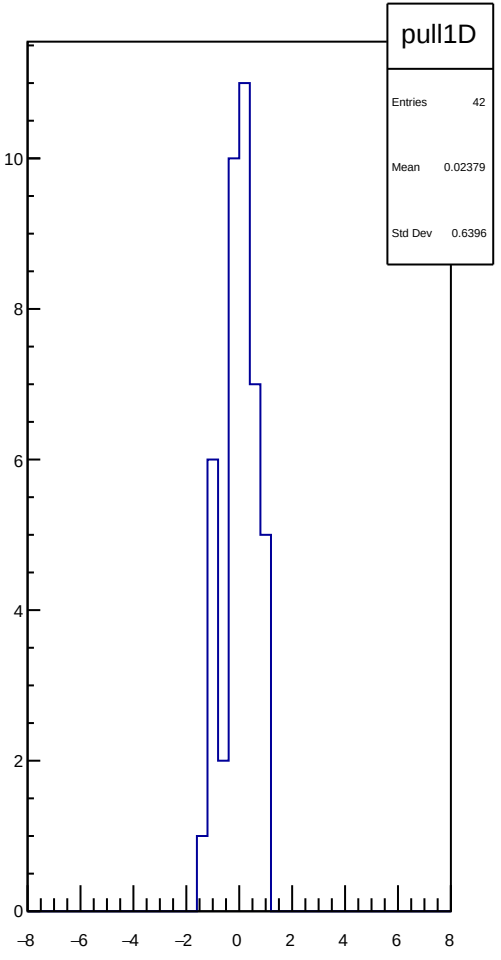

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.85 / 41
p0 1.285 ± 0.0853
pull
Entries 42
Mean −57.77
Std Dev 81.62

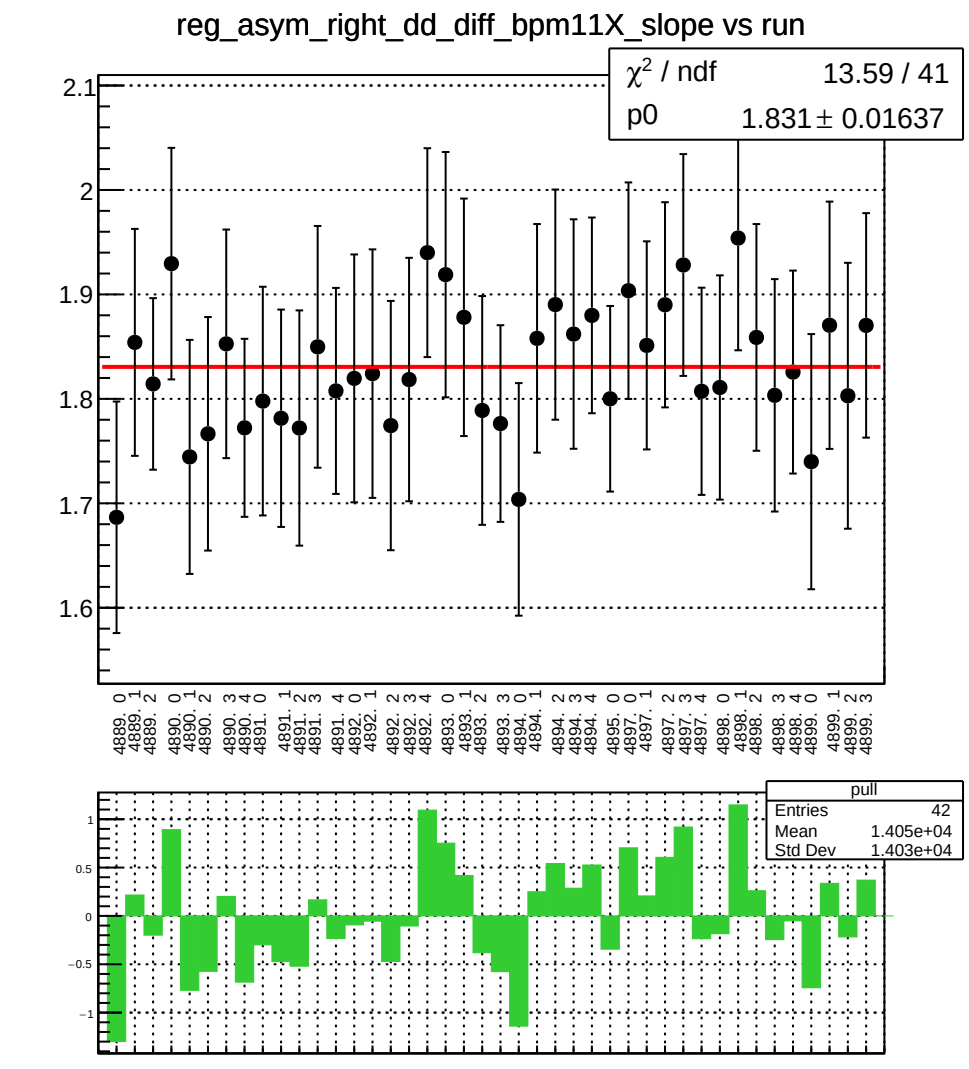

pull1D
Entries 42
Mean −0.0203
Std Dev 0.6696

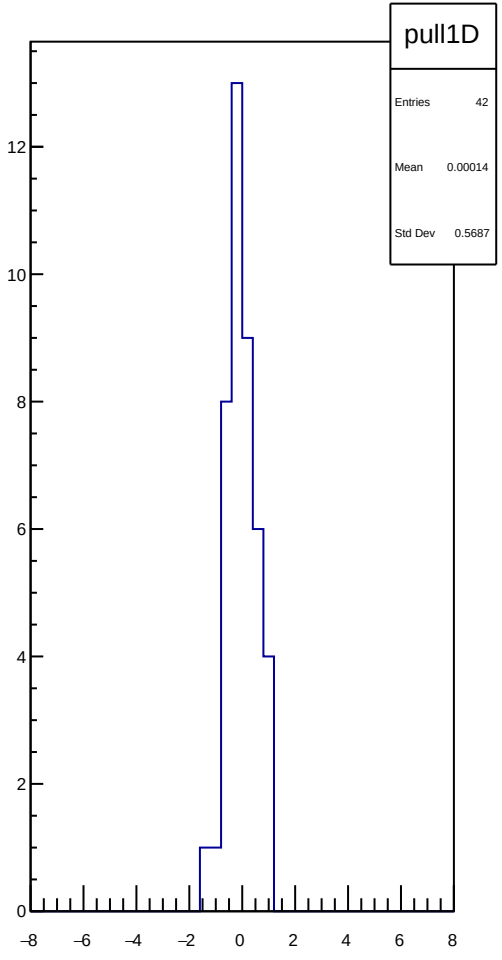

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.2 / 41
p0 4.657 ± 0.01186
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −8.679e+04
Std Dev 8.681e+04
2
1
0
−1
−2
−3

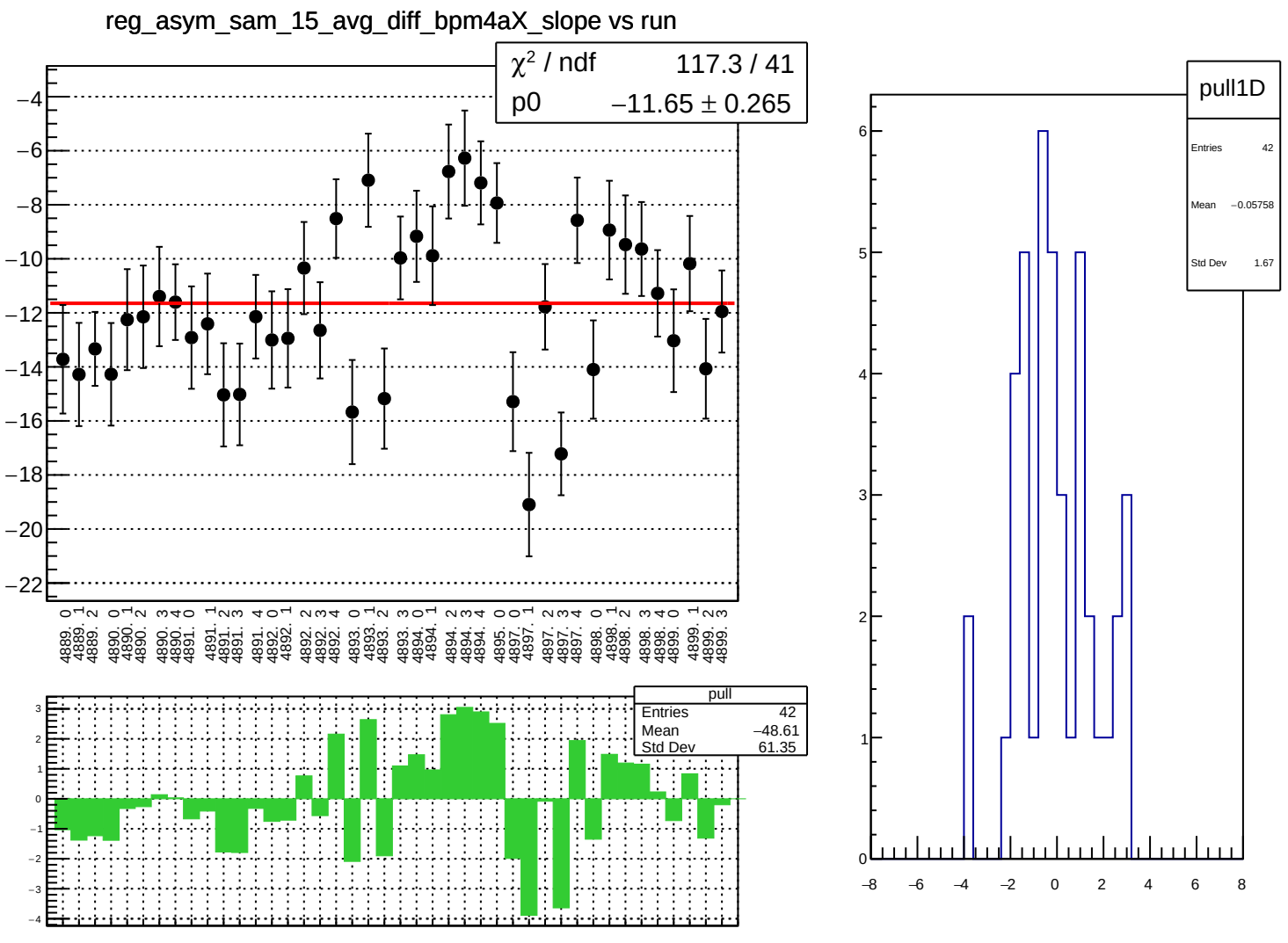

pull1D
Entries 42
Mean 0.0001254
Std Dev 1.575
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

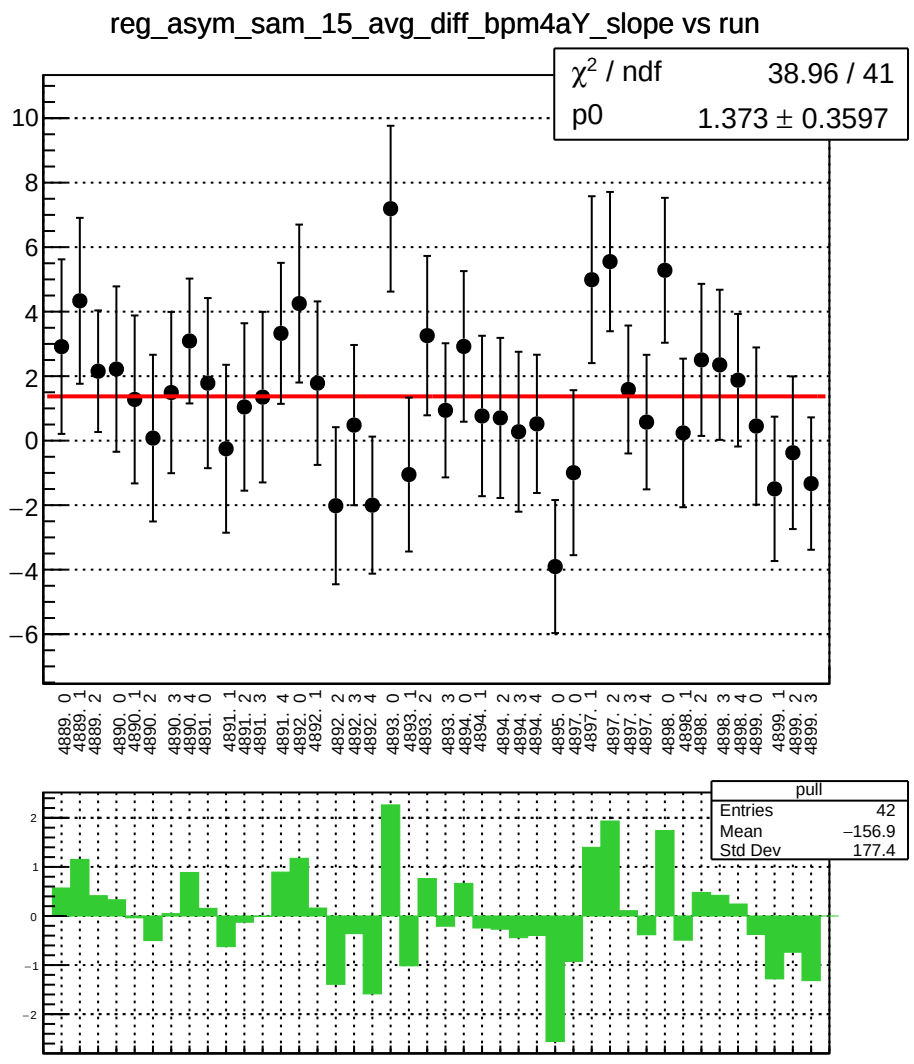

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.2 / 41
p0 −1.283 ± 0.09485
pull
Entries 42
Mean −73.17
Std Dev 97.17

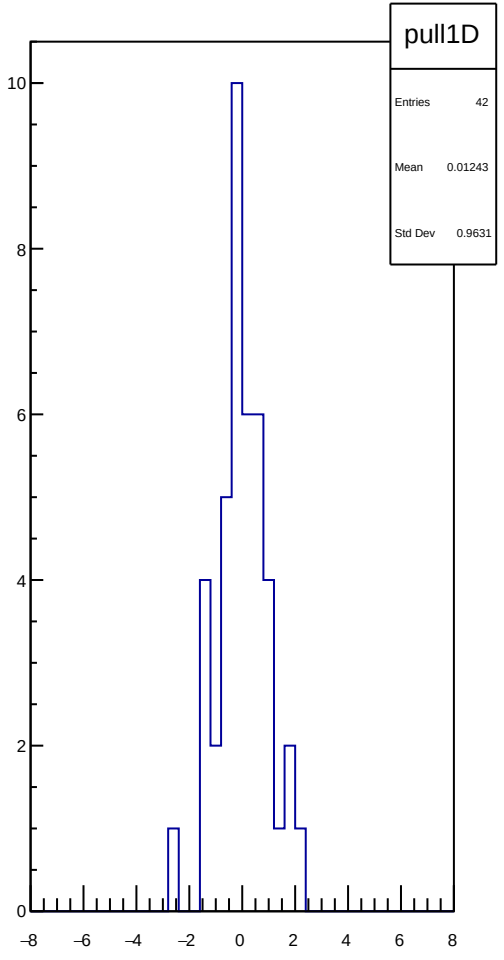

pull1D
Entries 42
Mean 0.02379
Std Dev 0.6396

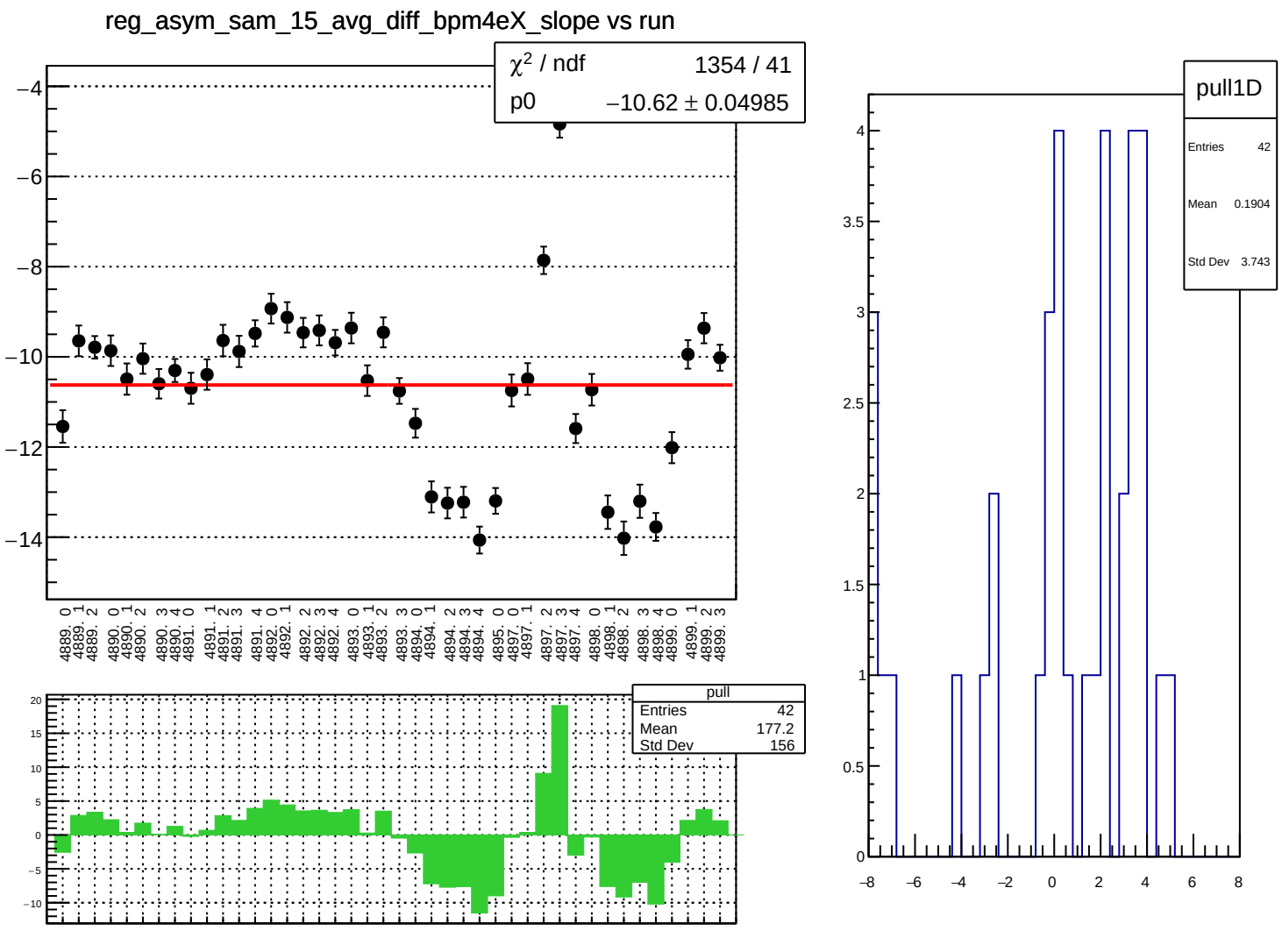

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 13.59 / 41
p0 1.831 ± 0.01637
pull
Entries 42
Mean 1.405e+04
Std Dev 1.403e+04

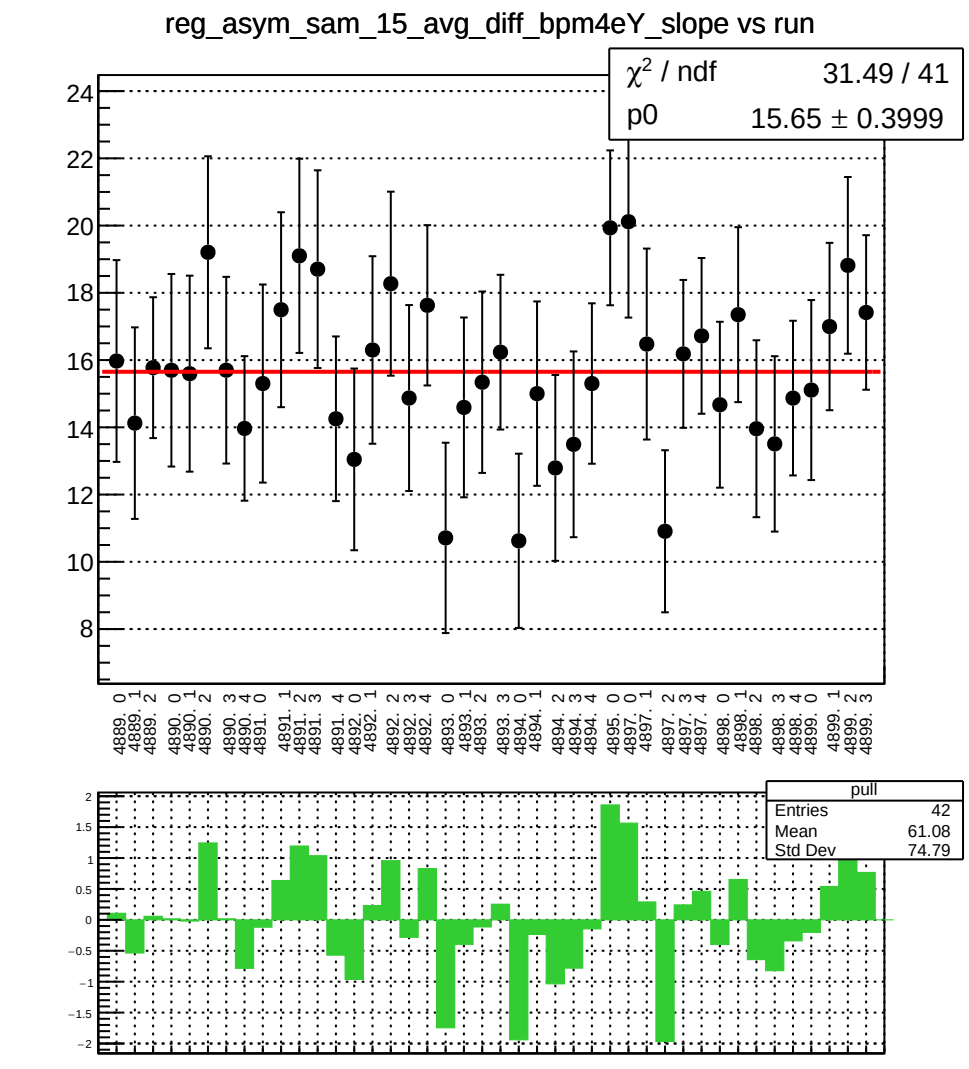

pull1D
Entries 42
Mean 0.00014
Std Dev 0.5687

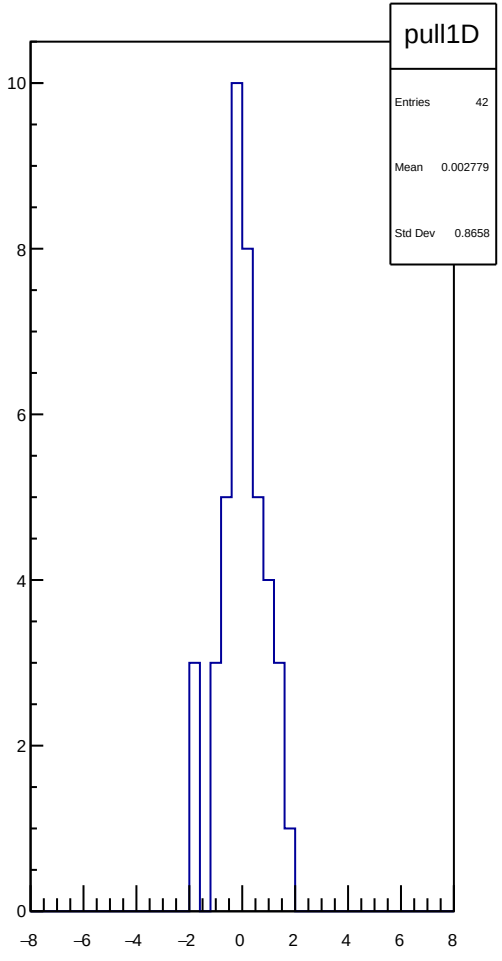

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 117.3 / 41
p0 −11.65 ± 0.265
pull
Entries 42
Mean −48.61
Std Dev 61.35
pull1D
Entries 42
Mean −0.05758
Std Dev 1.67

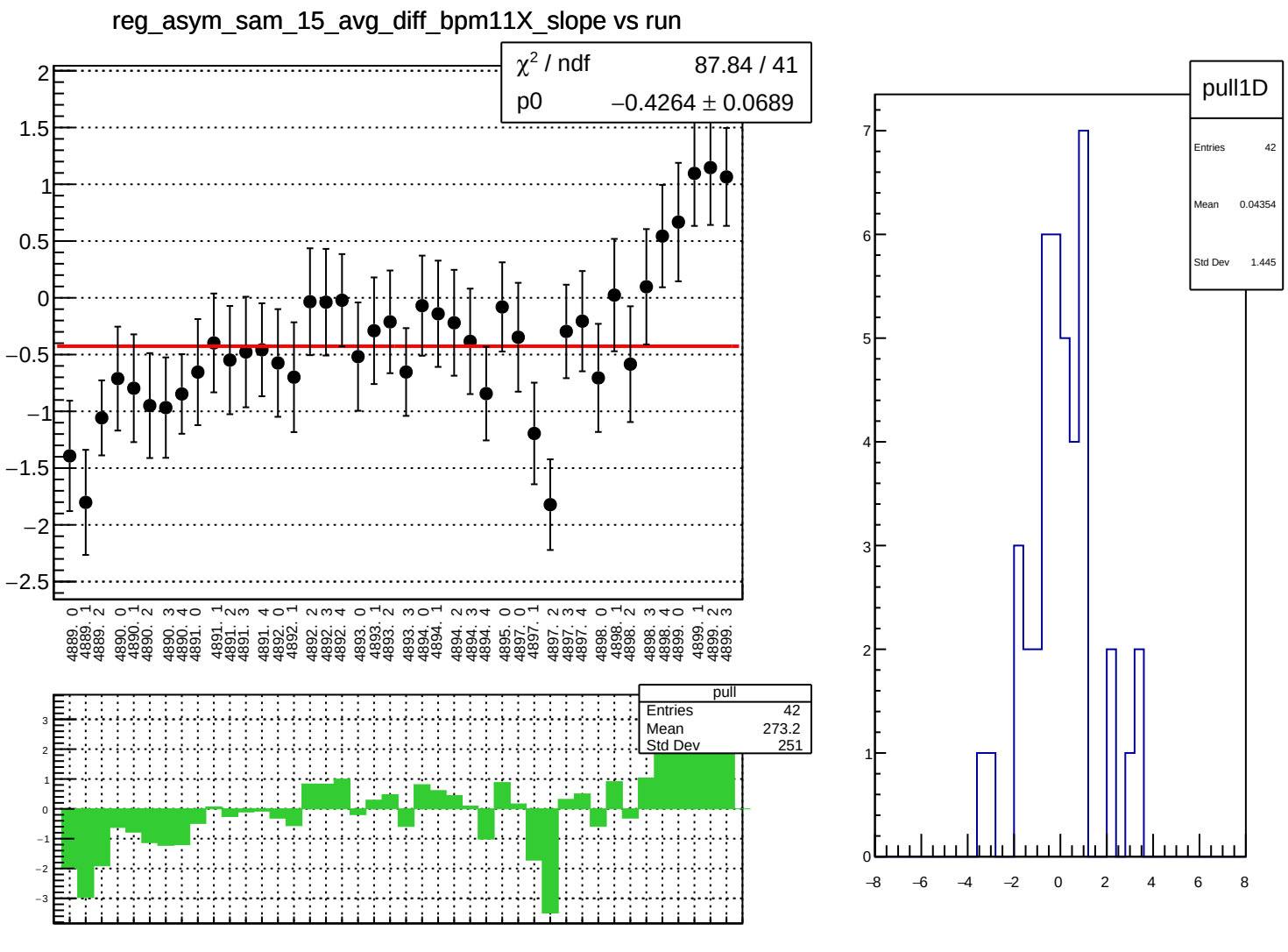

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.96 / 41
p0 1.373 ± 0.3597
pull
Entries 42
Mean −156.9
Std Dev 177.4

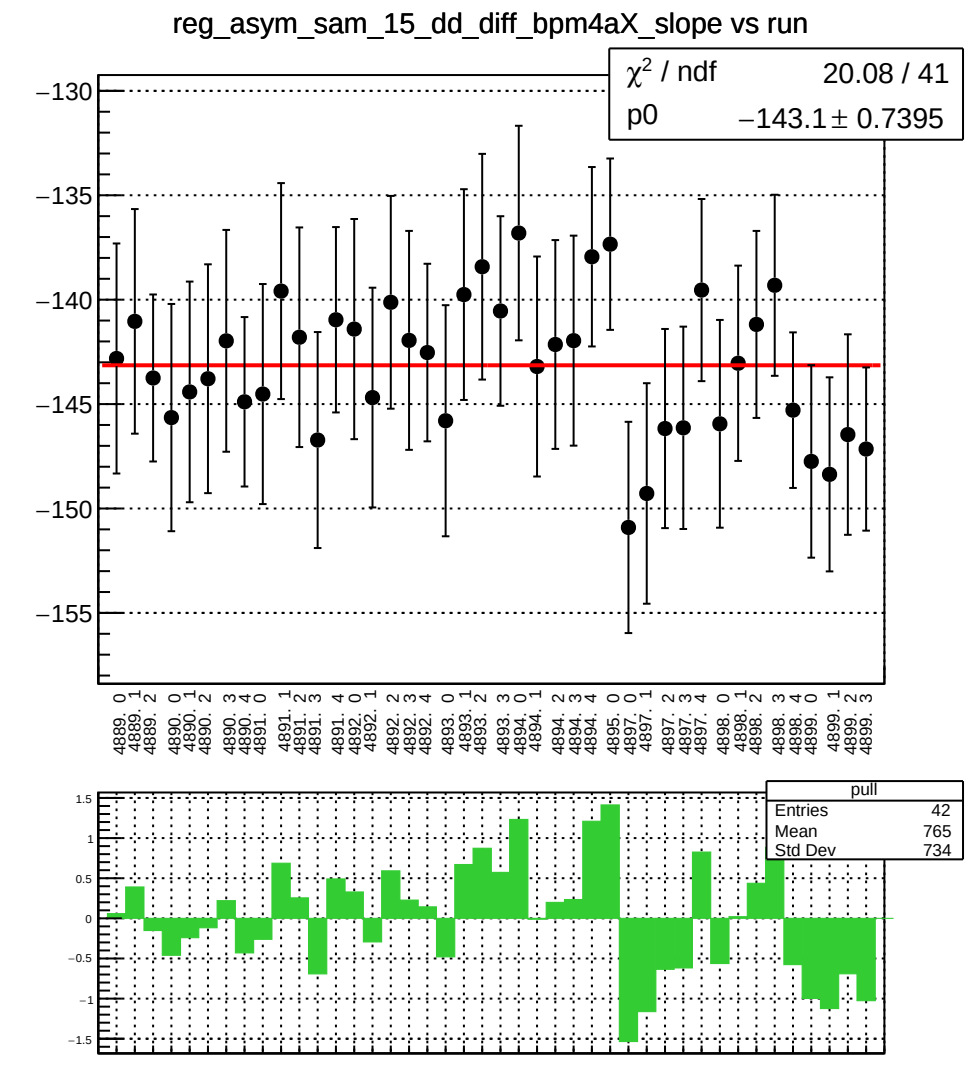

pull1D
Entries 42
Mean 0.01243
Std Dev 0.9631

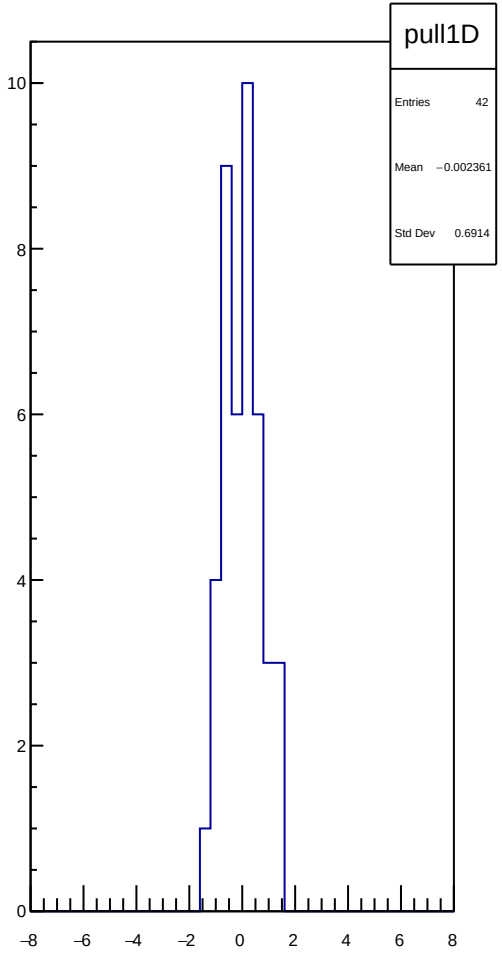

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1354 / 41
p0 −10.62 ± 0.04985
pull
Entries 42
Mean 177.2
Std Dev 156
pull1D
Entries 42
Mean 0.1904
Std Dev 3.743

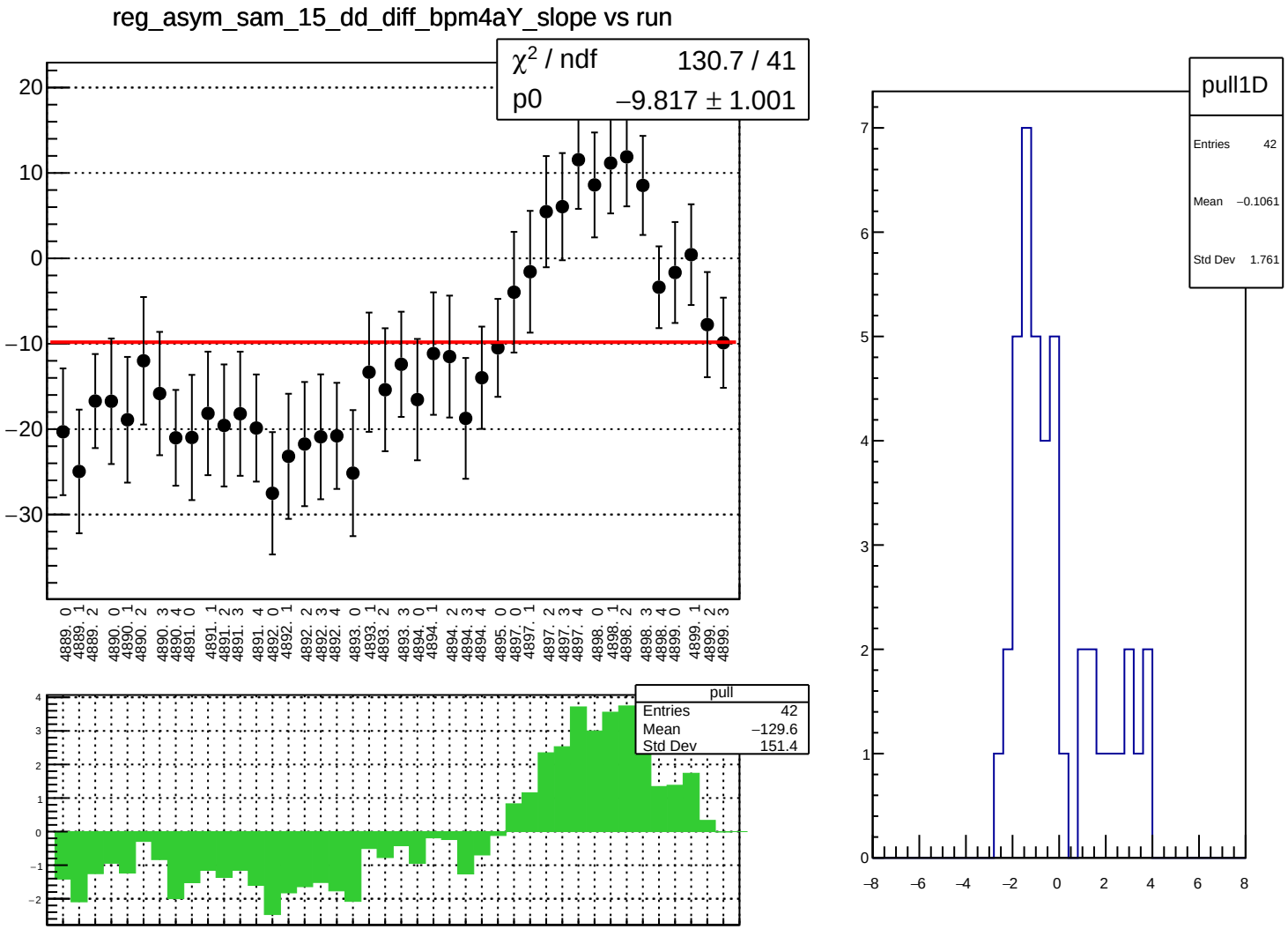

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.49 / 41
p0 15.65 ± 0.3999
pull
Entries 42
Mean 61.08
Std Dev 74.79

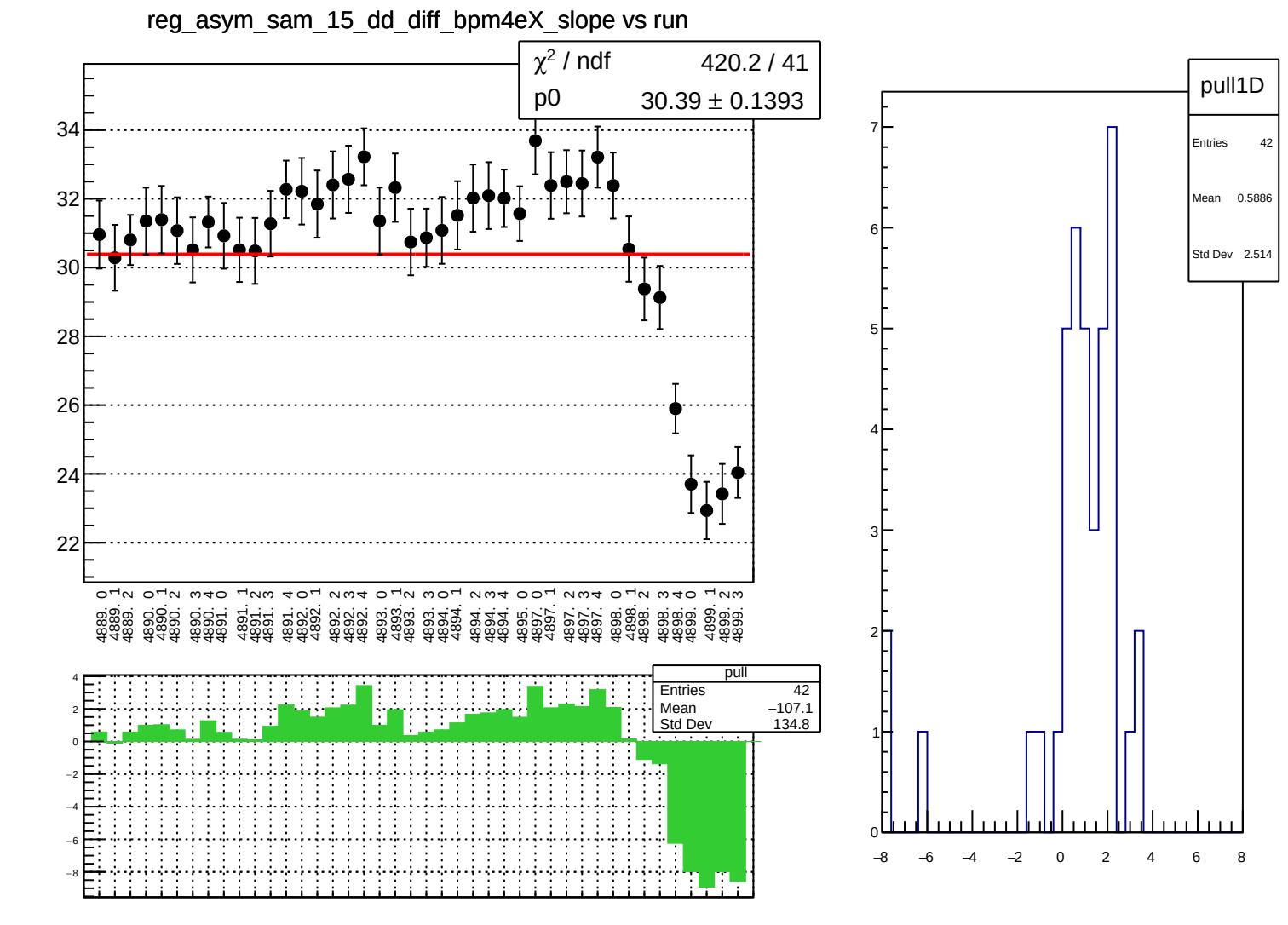

pull1D
Entries 42
Mean 0.002779
Std Dev 0.8658

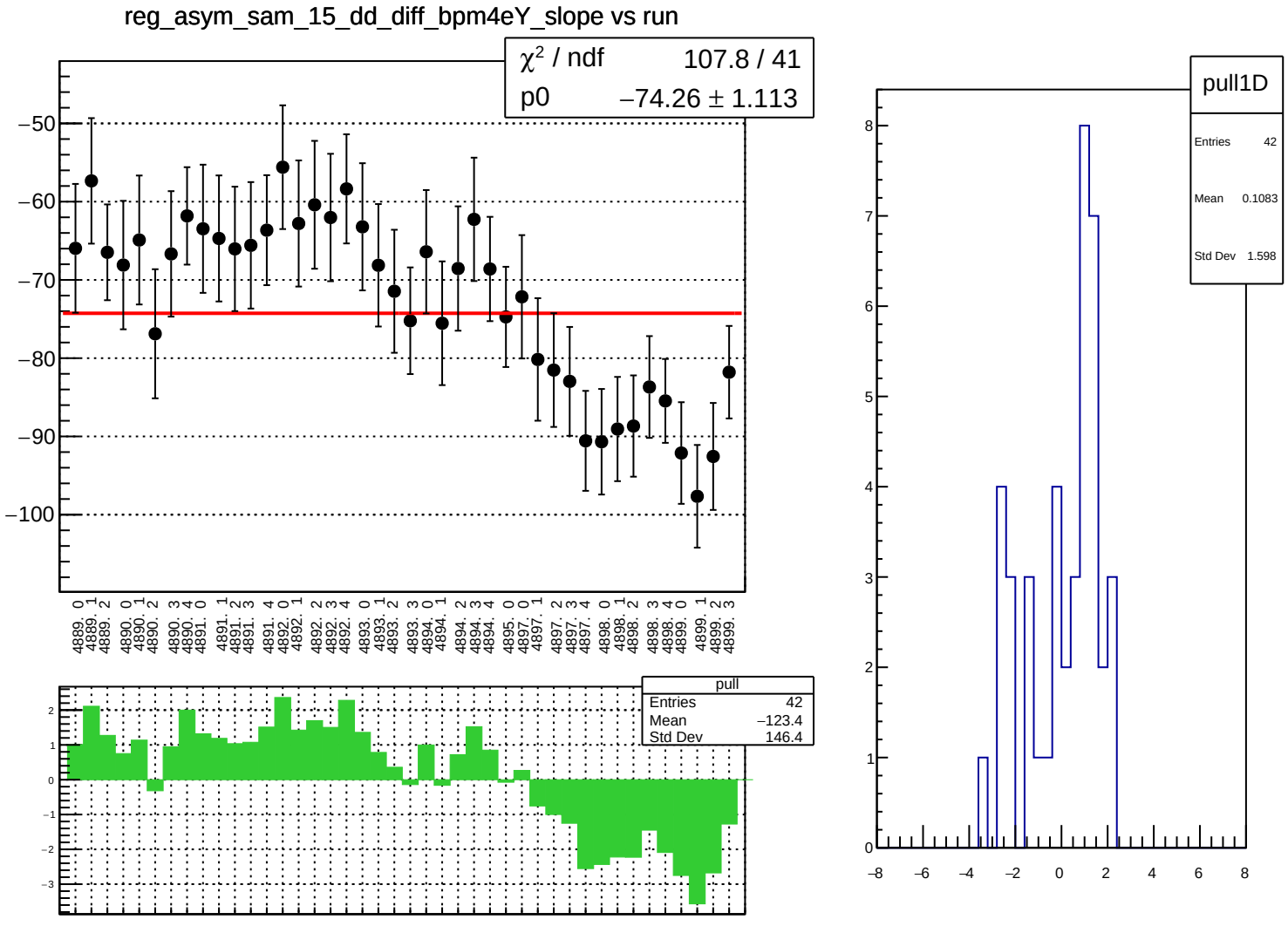

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 87.84 / 41
p0 −0.4264 ± 0.0689
pull
Entries 42
Mean 273.2
Std Dev 251
pull1D
Entries 42
Mean 0.04354
Std Dev 1.445

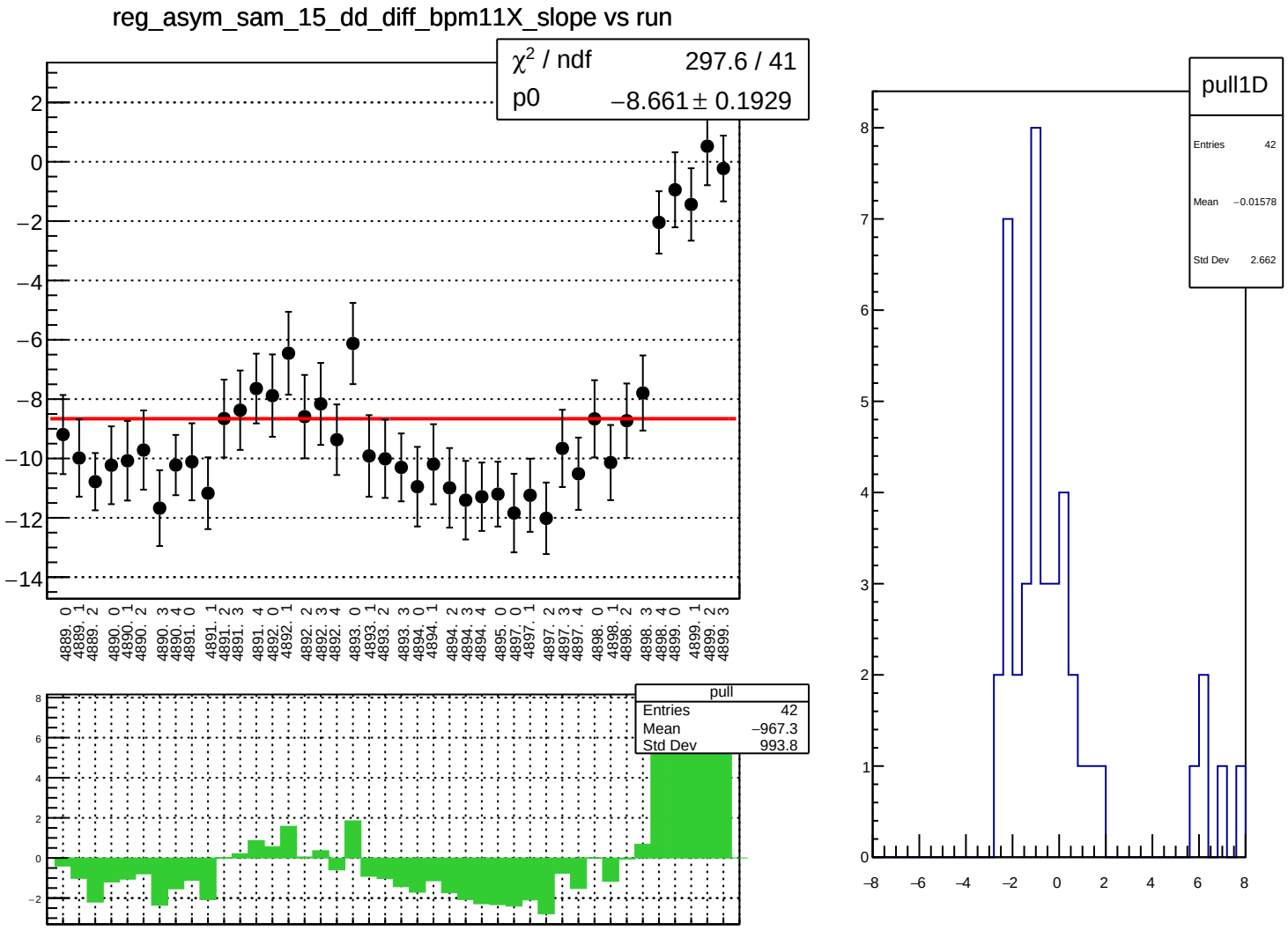

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.08 / 41
p0 −143.1 ± 0.7395
−130
−135
−140
−145
−150
−155
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 765
Std Dev 734
1.5
1
0.5
0
−0.5
−1
−1.5

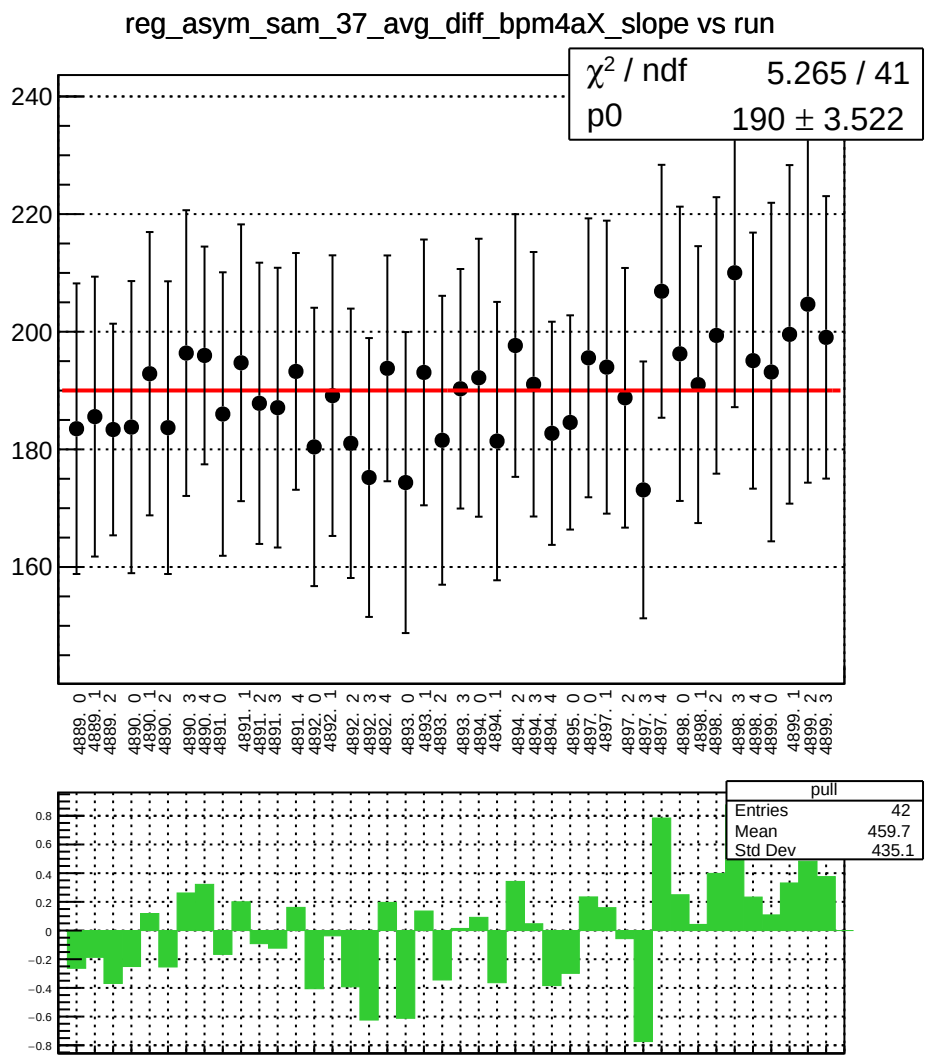

pull1D
Entries 42
Mean −0.002361
Std Dev 0.6914
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

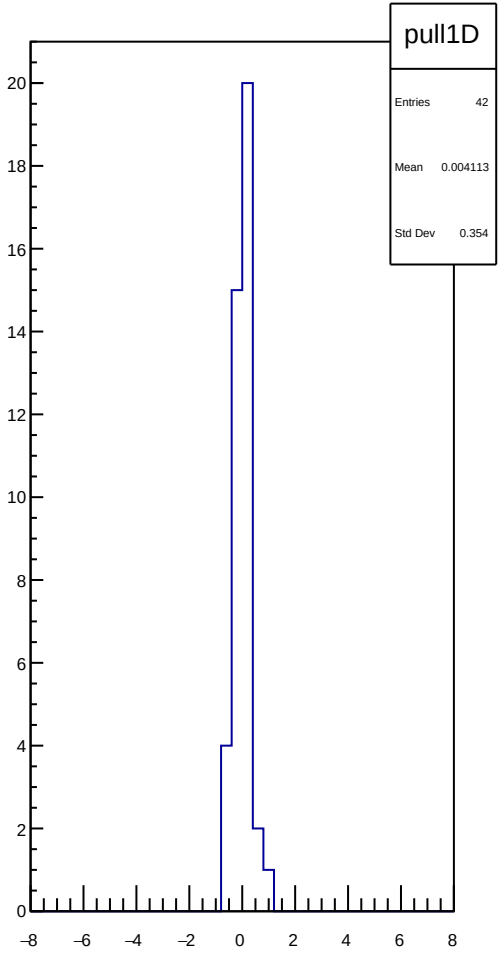

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 130.7 / 41
p0 −9.817 ± 1.001
20
10
0
−10
−20
−30
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −129.6
Std Dev 151.4
4
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.1061
Std Dev 1.761
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

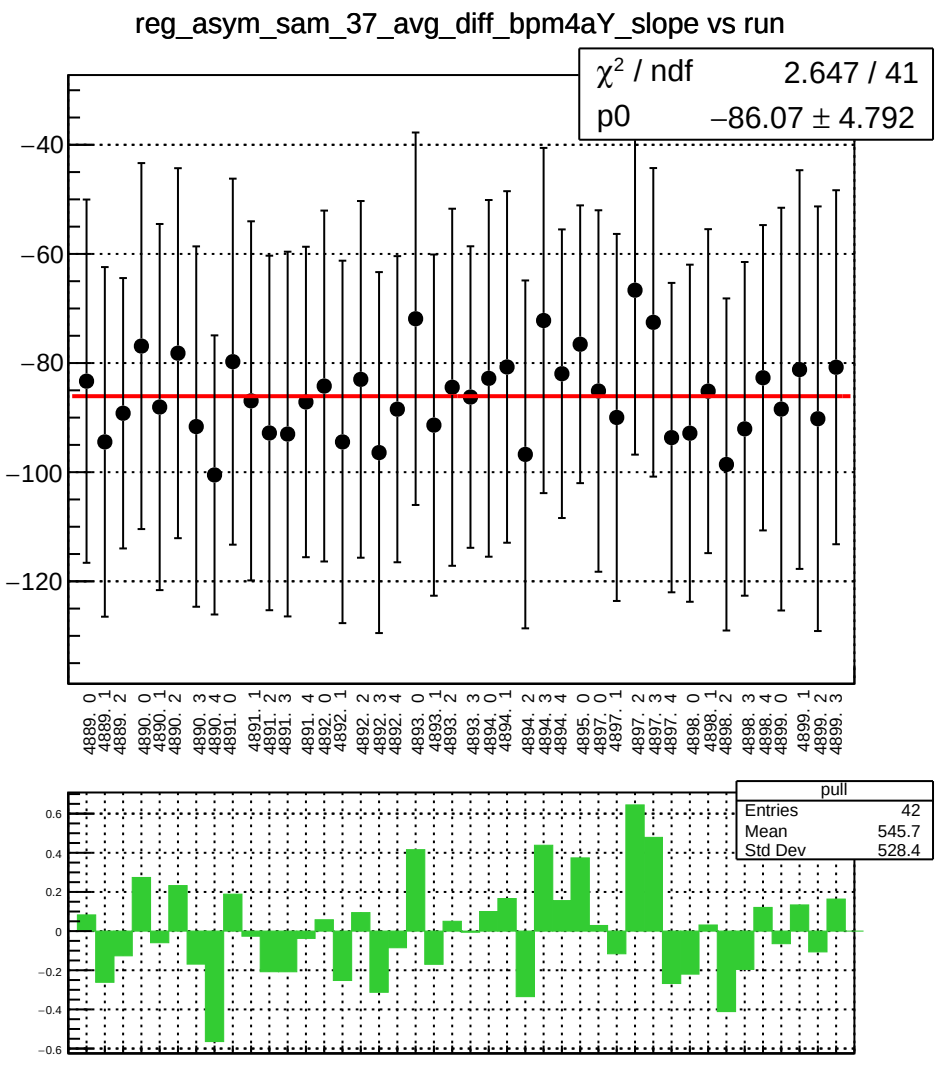

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 420.2 / 41
p0 30.39 ± 0.1393
pull
Entries 42
Mean −107.1
Std Dev 134.8
pull1D
Entries 42
Mean 0.5886
Std Dev 2.514

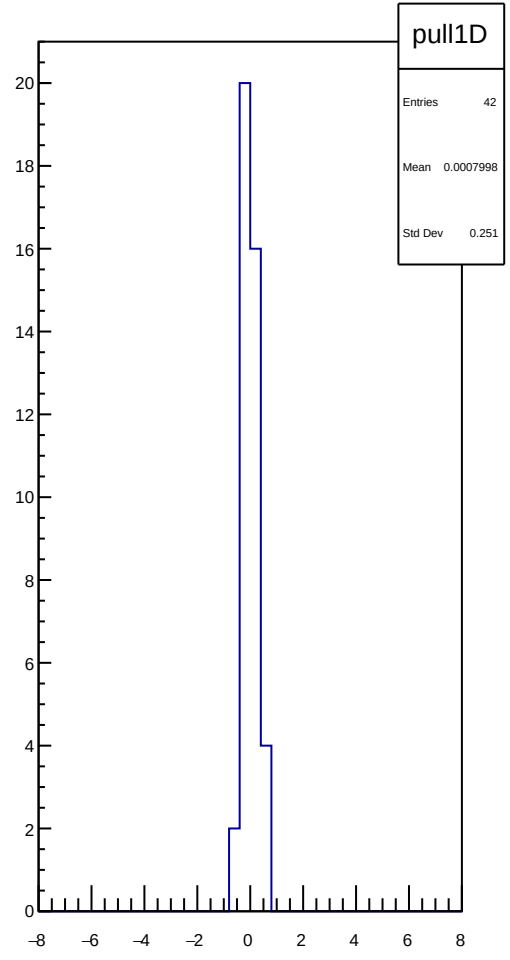

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.8 / 41
p0 −74.26 ± 1.113
pull
Entries 42
Mean −123.4
Std Dev 146.4
pull1D
Entries 42
Mean 0.1083
Std Dev 1.598

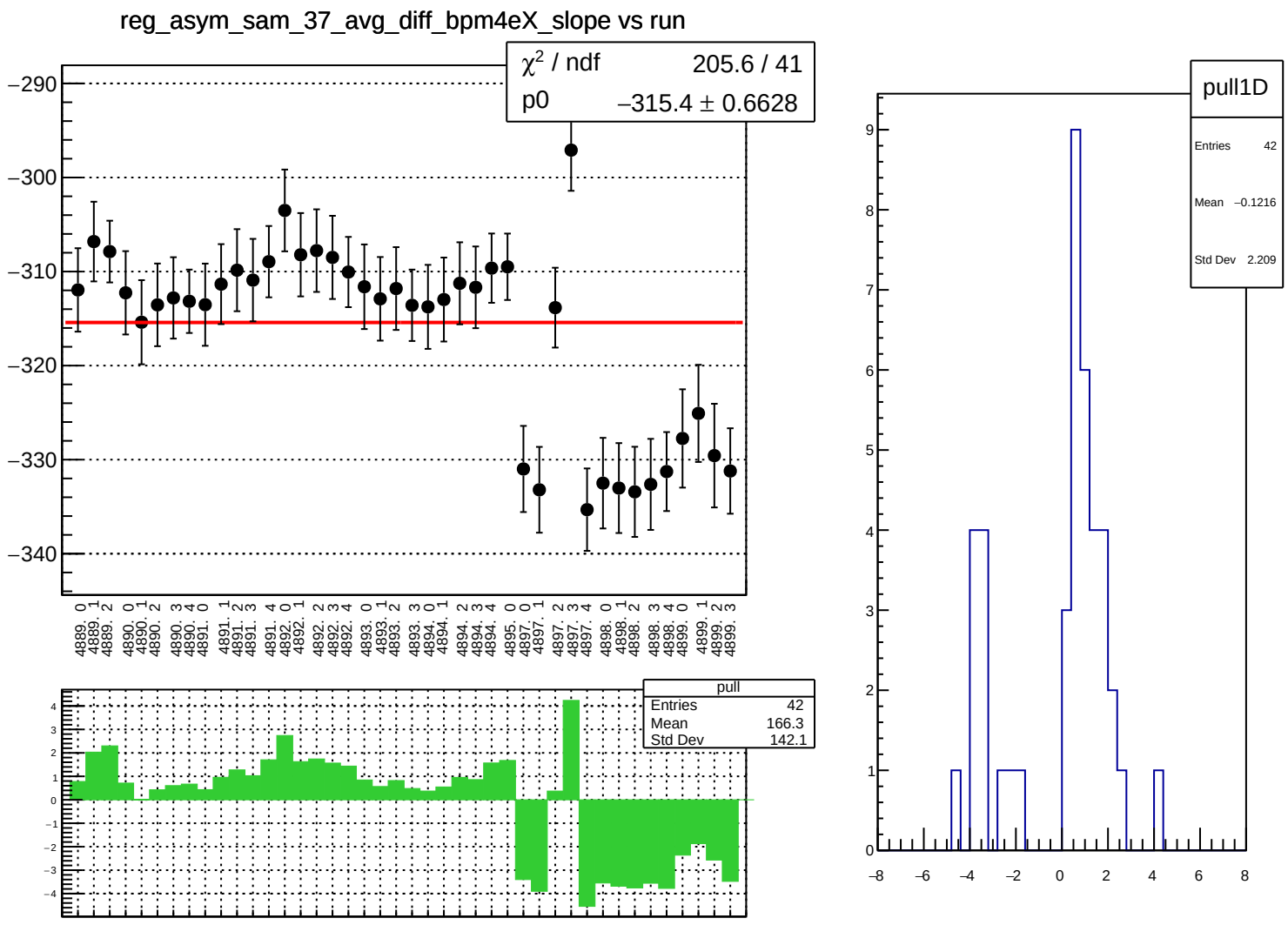

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 297.6 / 41
p0 −8.661 ± 0.1929
pull
Entries 42
Mean −967.3
Std Dev 993.8
pull1D
Entries 42
Mean −0.01578
Std Dev 2.662

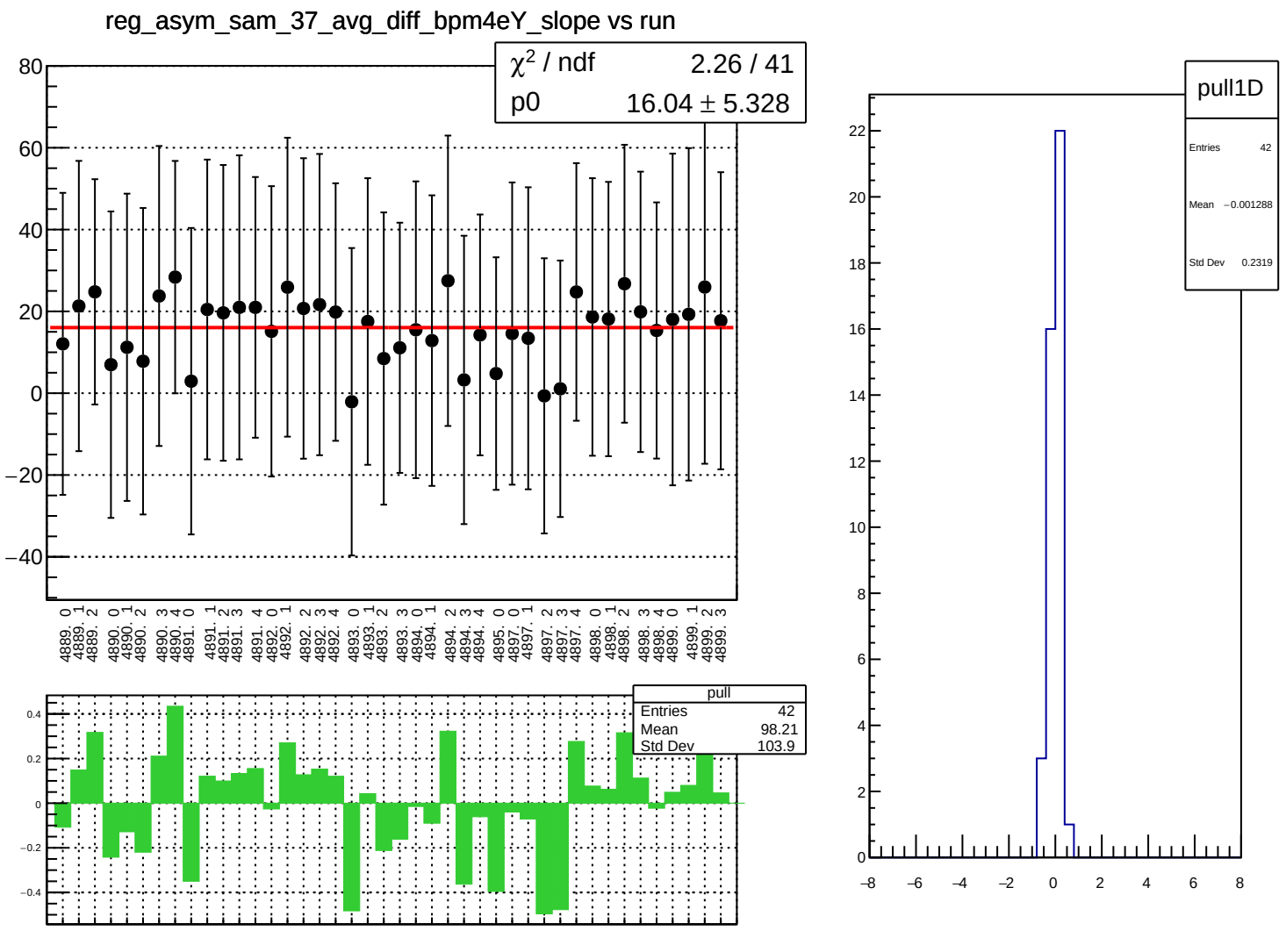

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.265 / 41
p0 190 ± 3.522
240
220
200
180
160
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 459.7
Std Dev 435.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

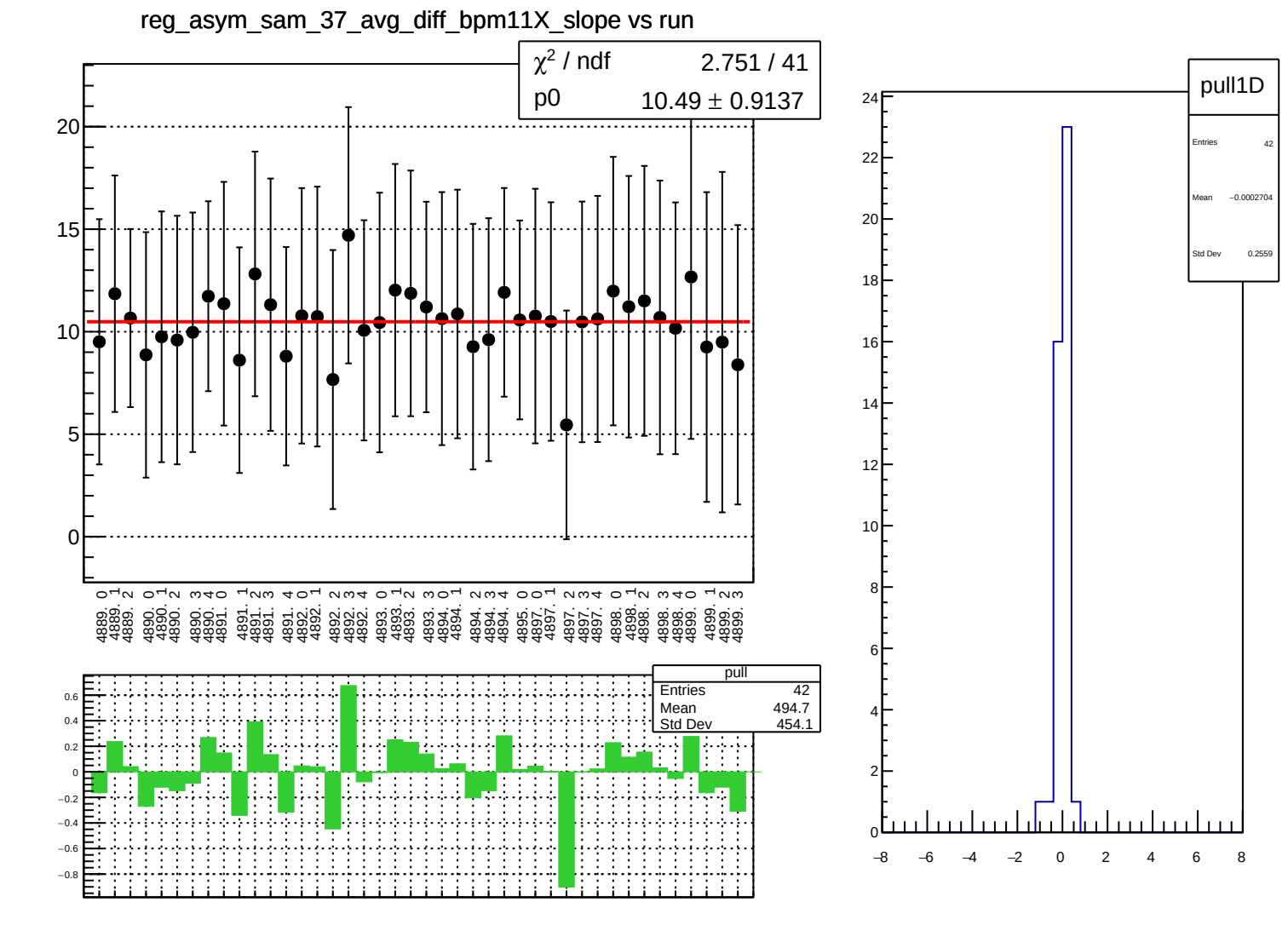

pull1D
Entries 42
Mean 0.004113
Std Dev 0.354
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

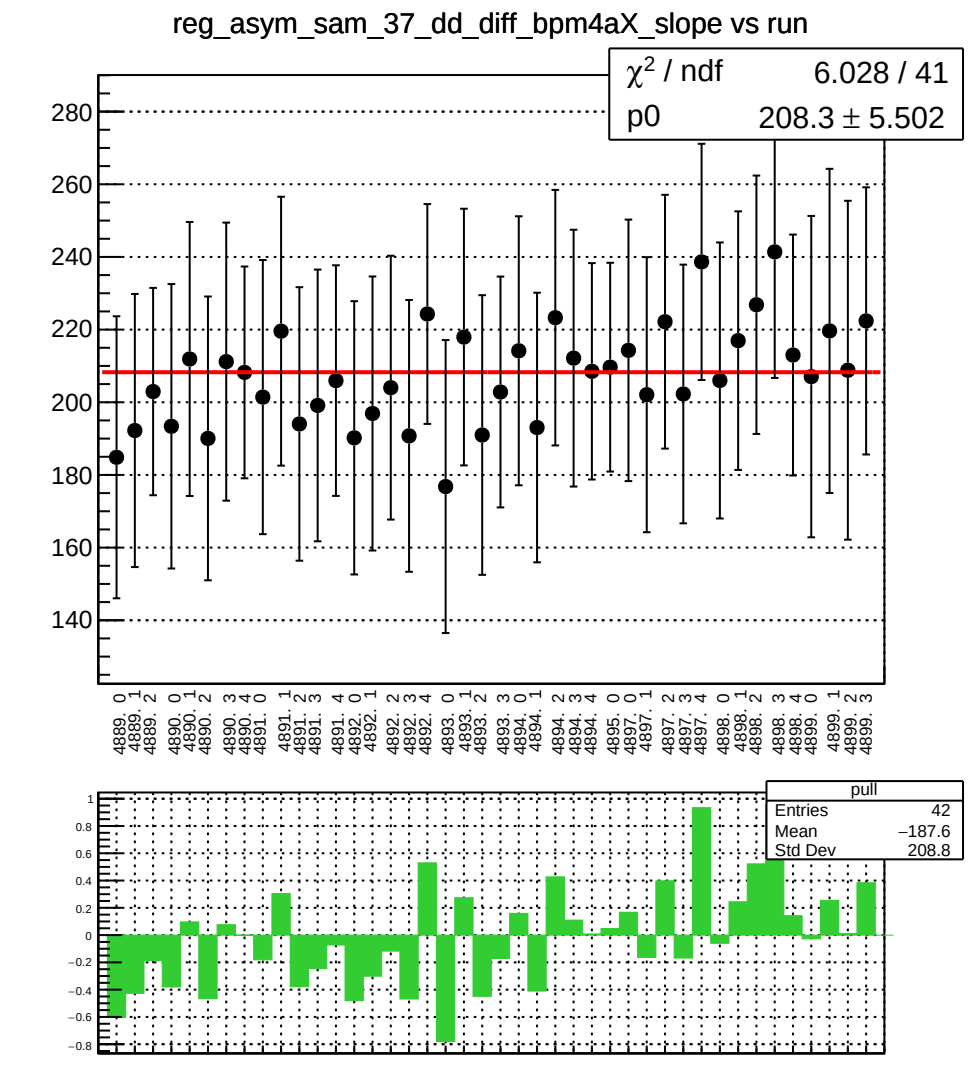

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.647 / 41
p0 −86.07 ± 4.792
pull
Entries 42
Mean 545.7
Std Dev 528.4

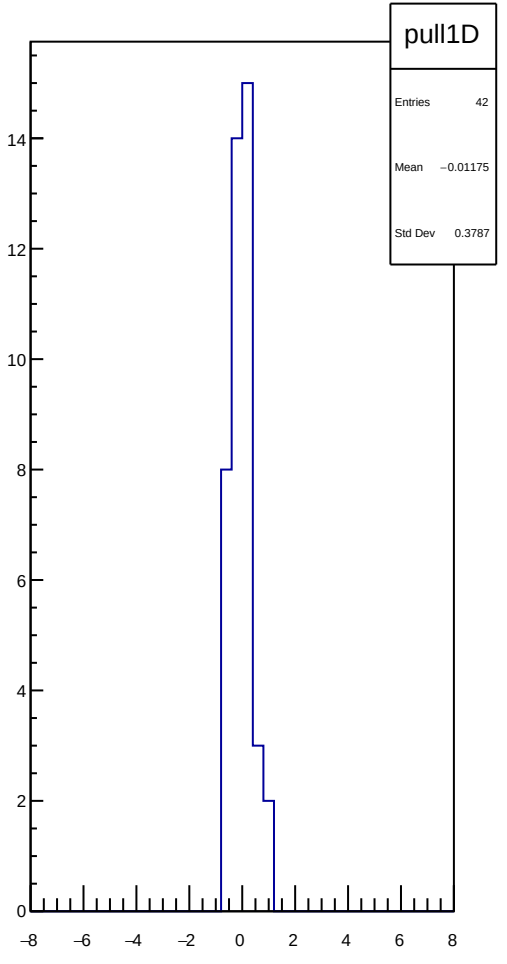

pull1D
Entries 42
Mean 0.0007998
Std Dev 0.251

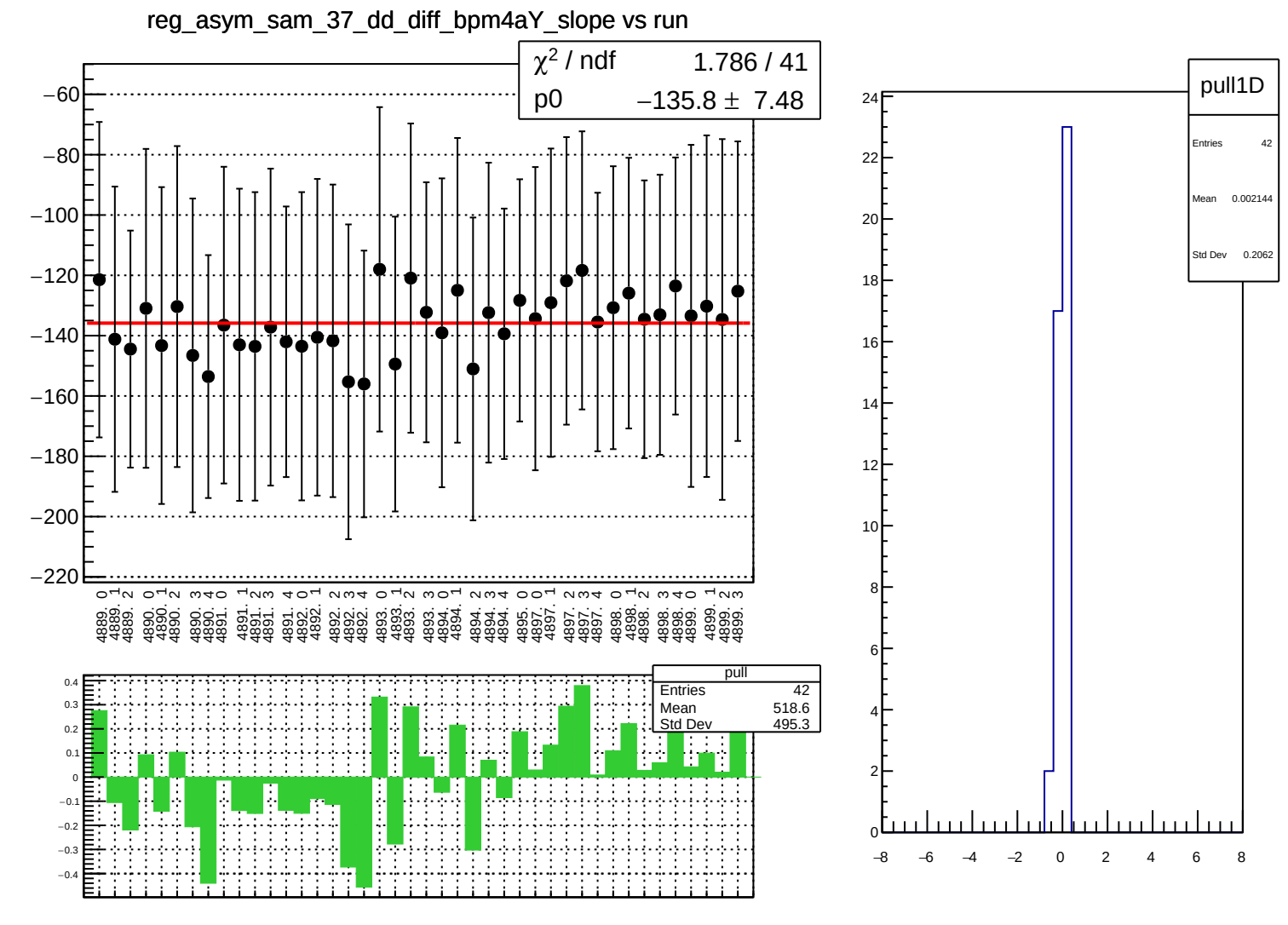

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 205.6 / 41
p0 −315.4 ± 0.6628
−290
−300
−310
−320
−330
−340
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 166.3
Std Dev 142.1
pull1D
Entries 42
Mean −0.1216
Std Dev 2.209

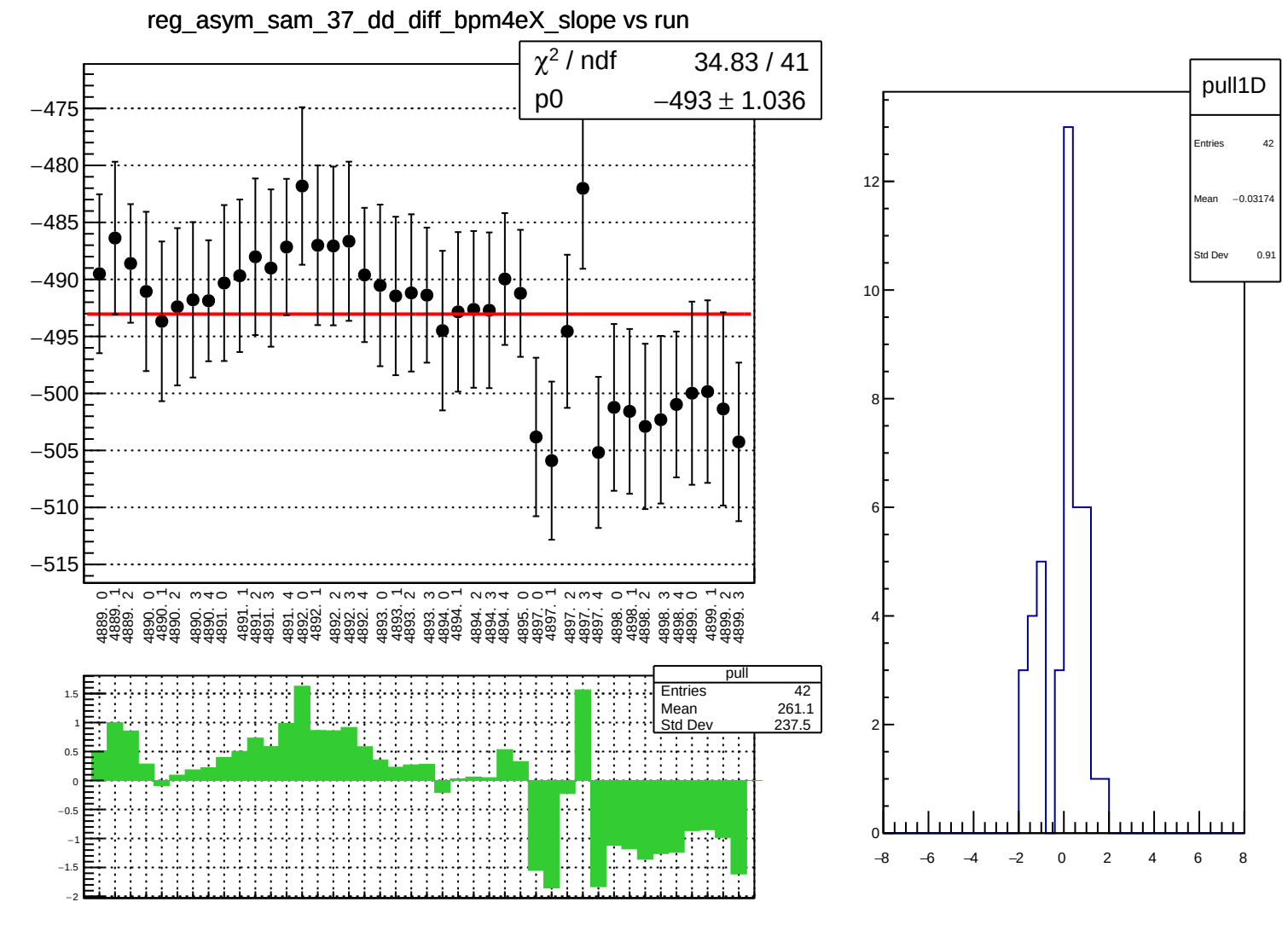

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.26 / 41
p0 16.04 ± 5.328
pull
Entries 42
Mean 98.21
Std Dev 103.9
pull1D
Entries 42
Mean −0.001288
Std Dev 0.2319

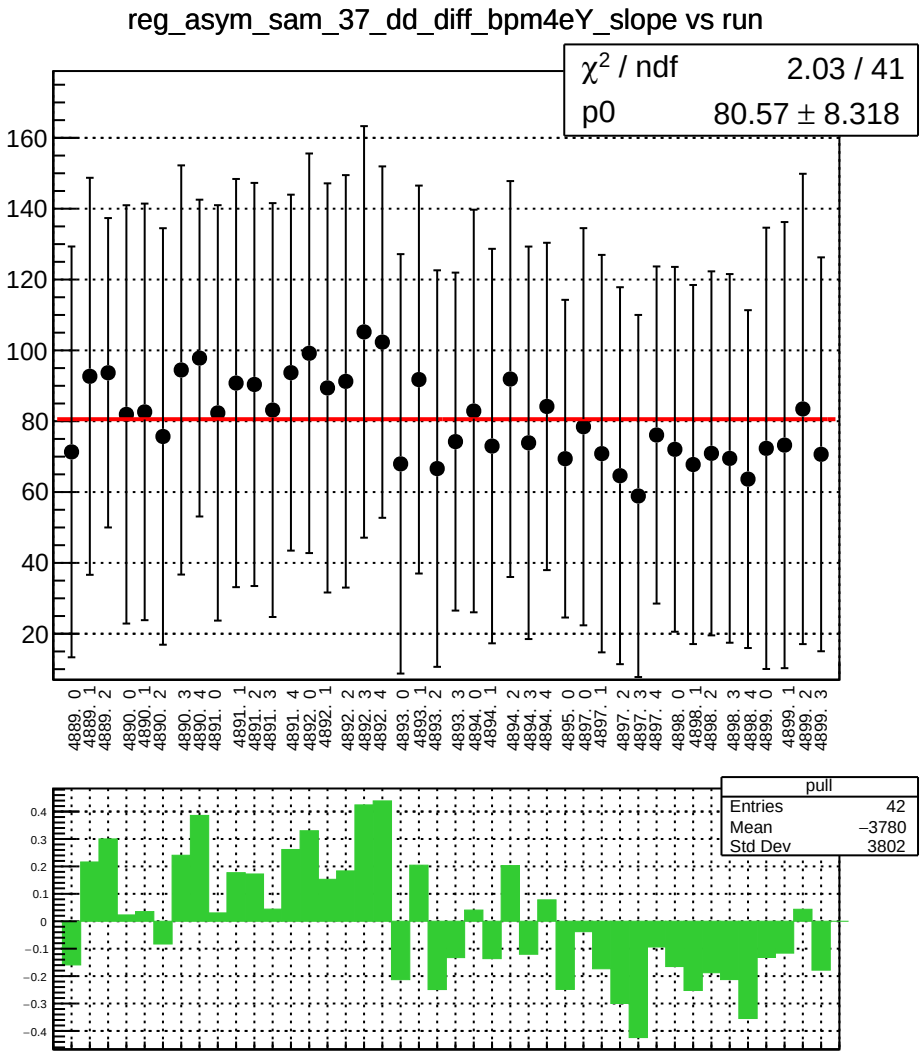

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 2.751 / 41
p0 10.49 ± 0.9137
pull
Entries 42
Mean 494.7
Std Dev 454.1
pull1D
Entries 42
Mean −0.0002704
Std Dev 0.2559

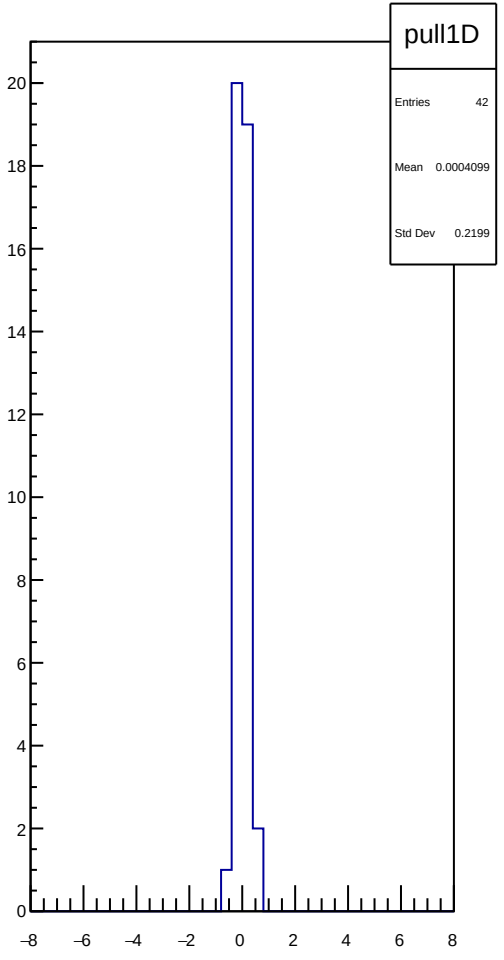

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.028 / 41
p0 208.3 ± 5.502
280
260
240
220
200
180
160
140
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −187.6
Std Dev 208.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

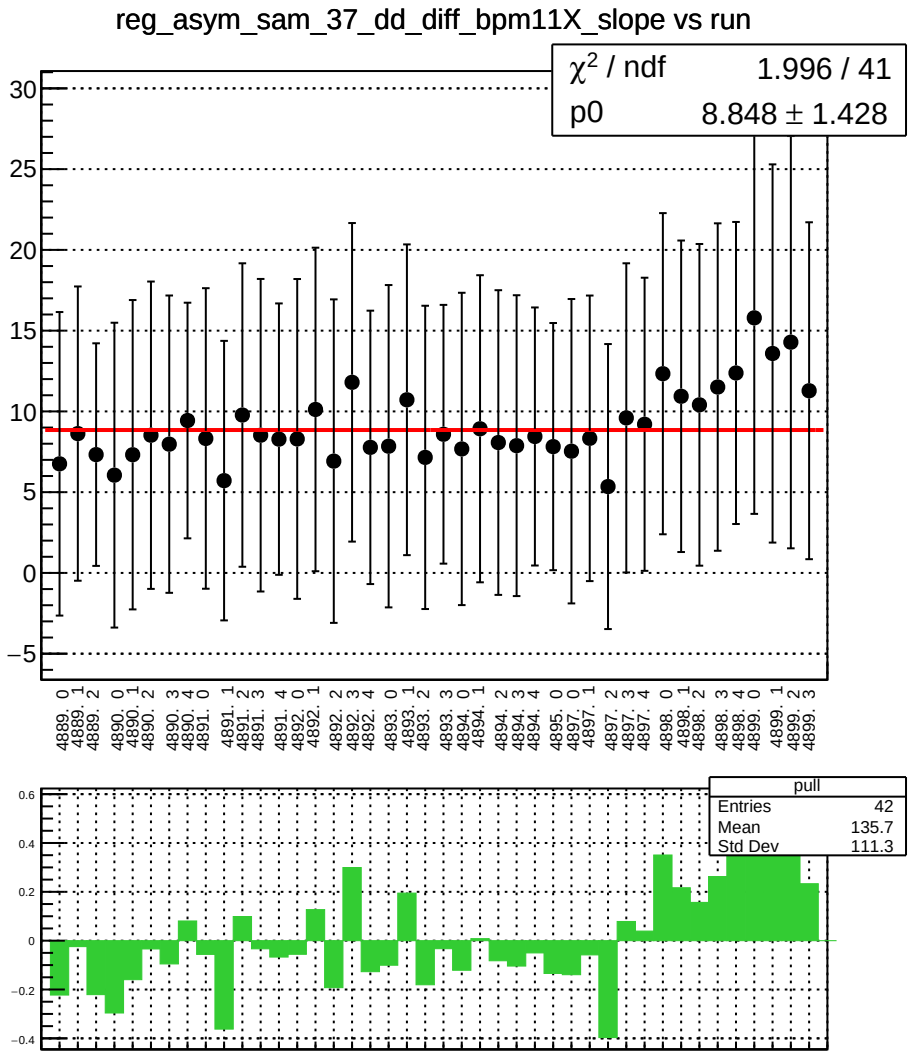

pull1D
Entries 42
Mean −0.01175
Std Dev 0.3787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

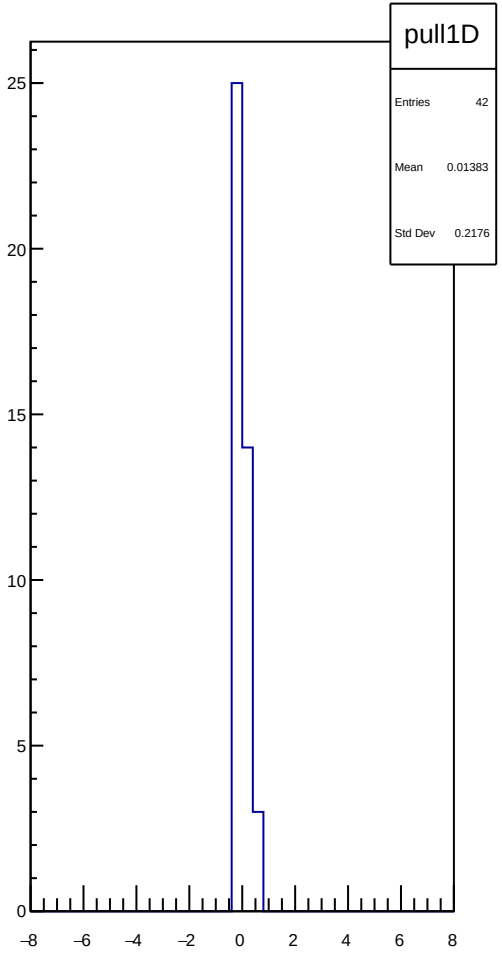

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.786 / 41
p0 −135.8 ± 7.48
pull
Entries 42
Mean 518.6
Std Dev 495.3
pull1D
Entries 42
Mean 0.002144
Std Dev 0.2062

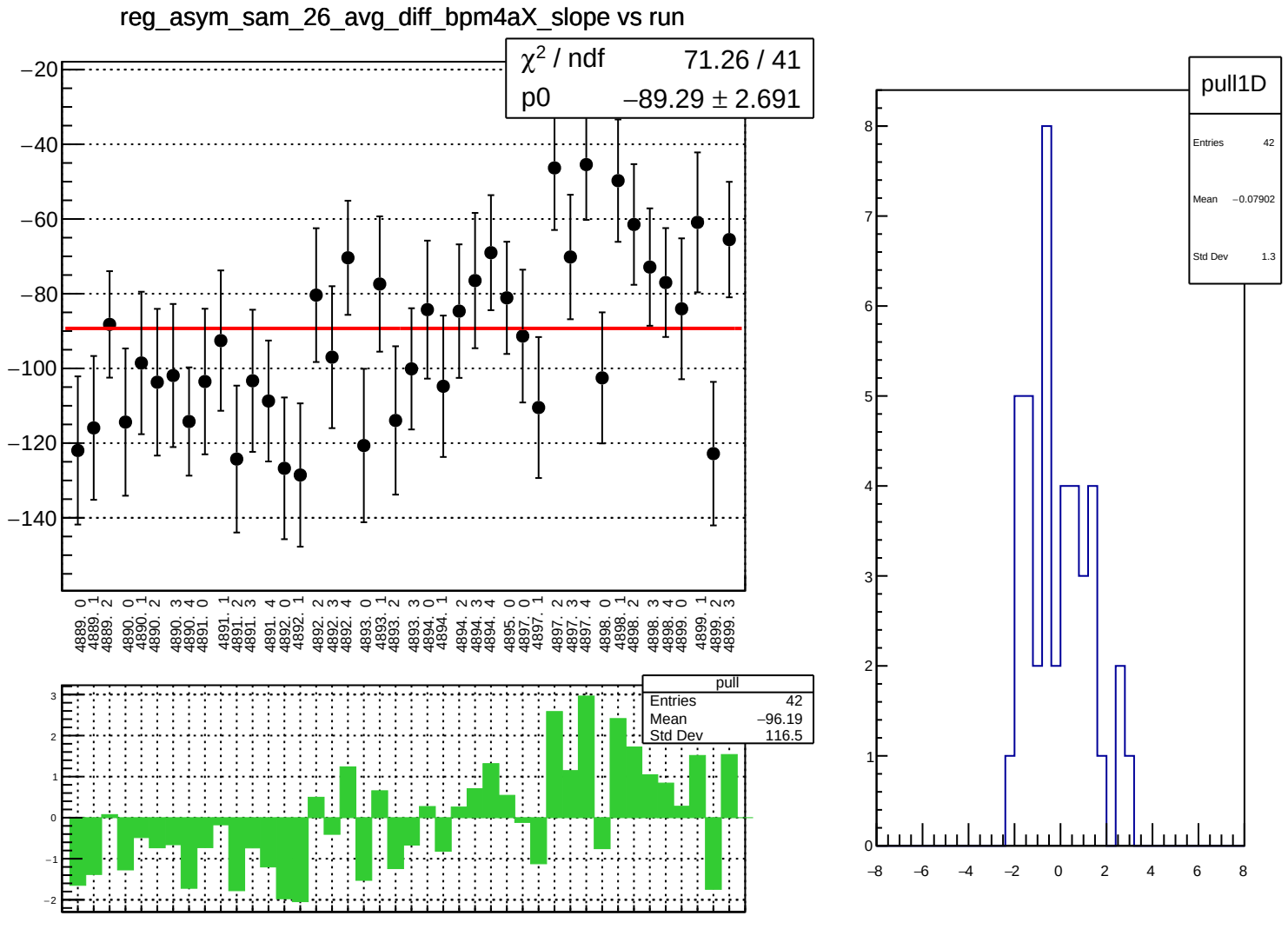

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.83 / 41
p0 −493 ± 1.036
−475
−480
−485
−490
−495
−500
−505
−510
−515
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 261.1
Std Dev 237.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.03174
Std Dev 0.91
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

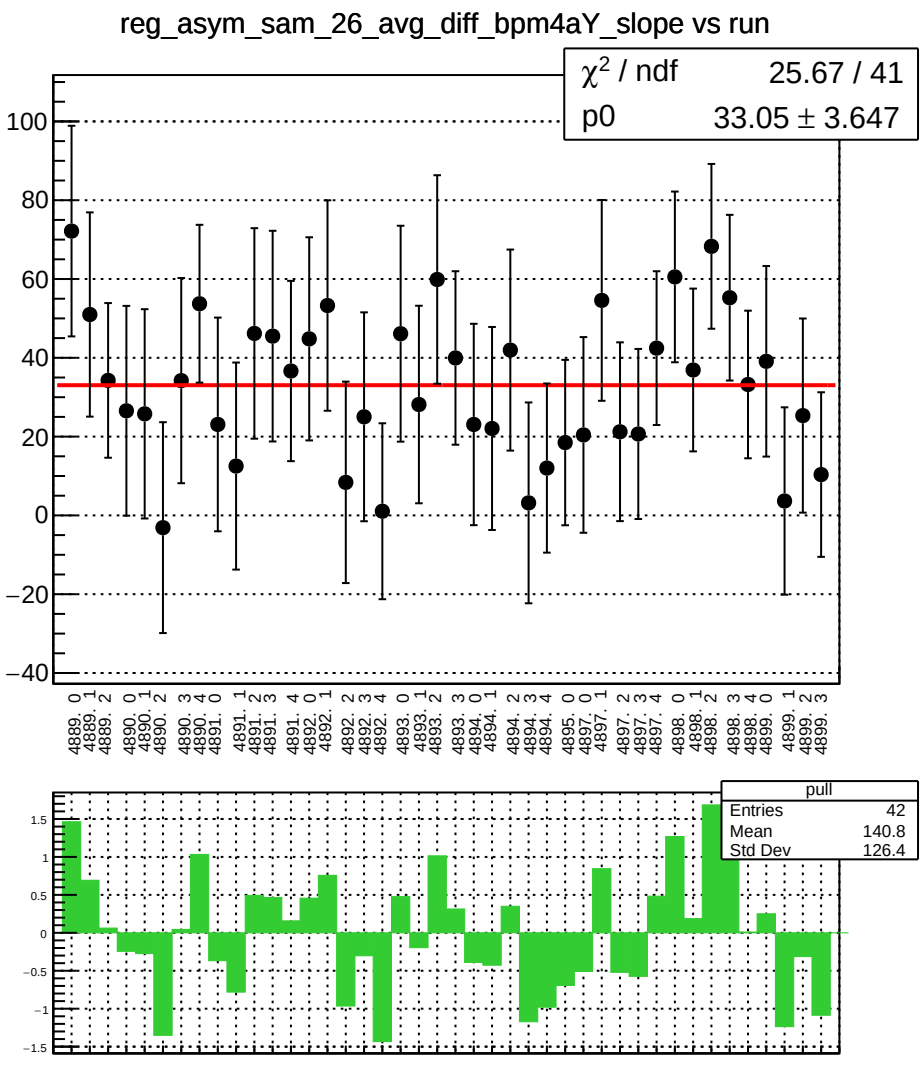

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.03 / 41
p0 80.57 ± 8.318
pull
Entries 42
Mean −3780
Std Dev 3802

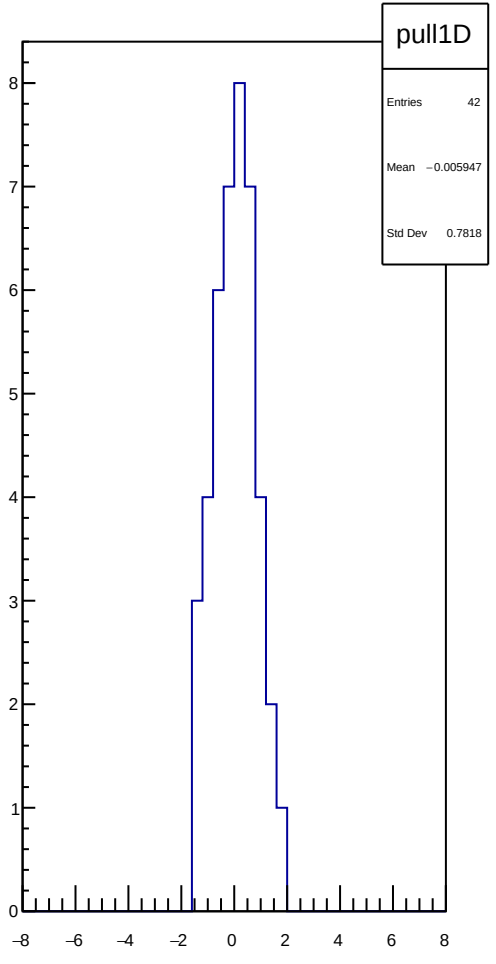

pull1D
Entries 42
Mean 0.0004099
Std Dev 0.2199

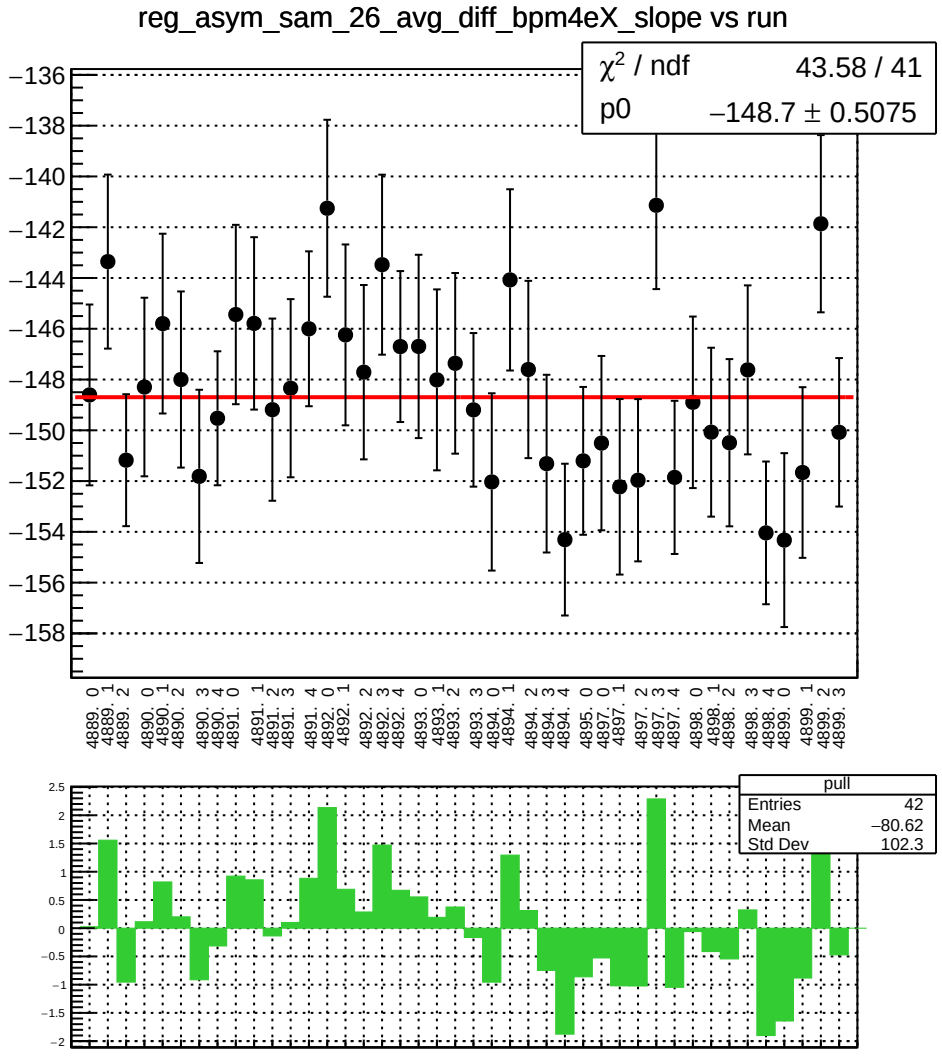

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 1.996 / 41
p0 8.848 ± 1.428
pull
Entries 42
Mean 135.7
Std Dev 111.3

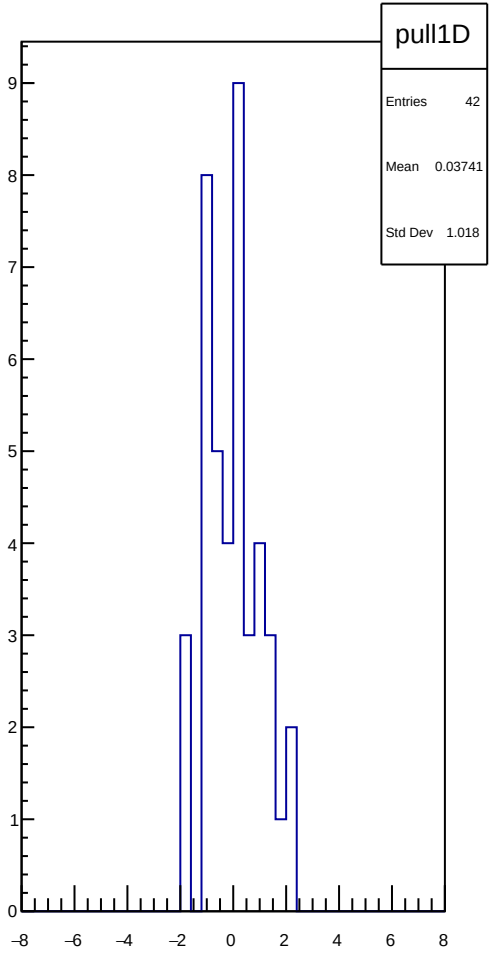

pull1D
Entries 42
Mean 0.01383
Std Dev 0.2176

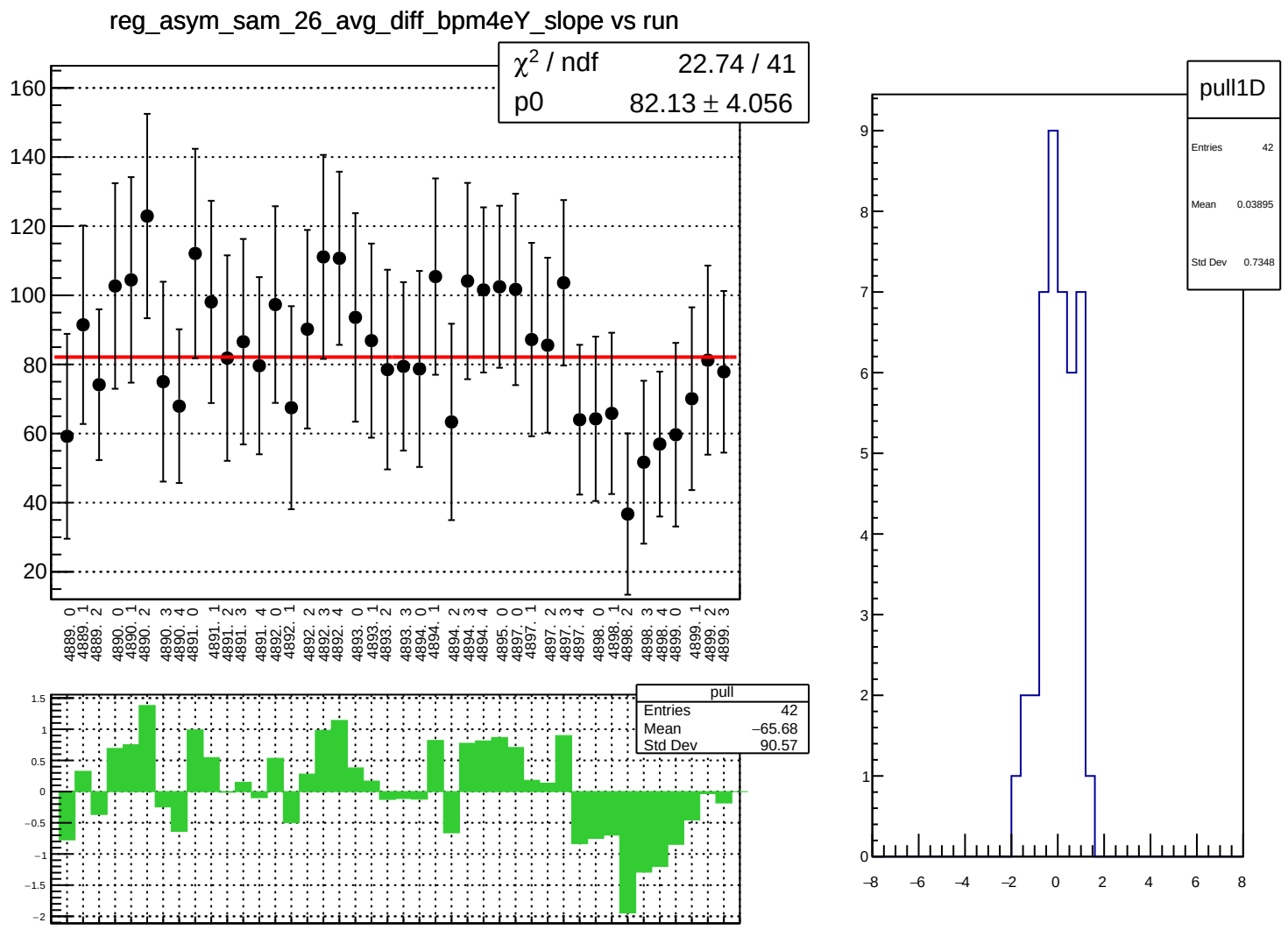

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 71.26 / 41
p0 −89.29 ± 2.691
pull
Entries 42
Mean −96.19
Std Dev 116.5
pull1D
Entries 42
Mean −0.07902
Std Dev 1.3

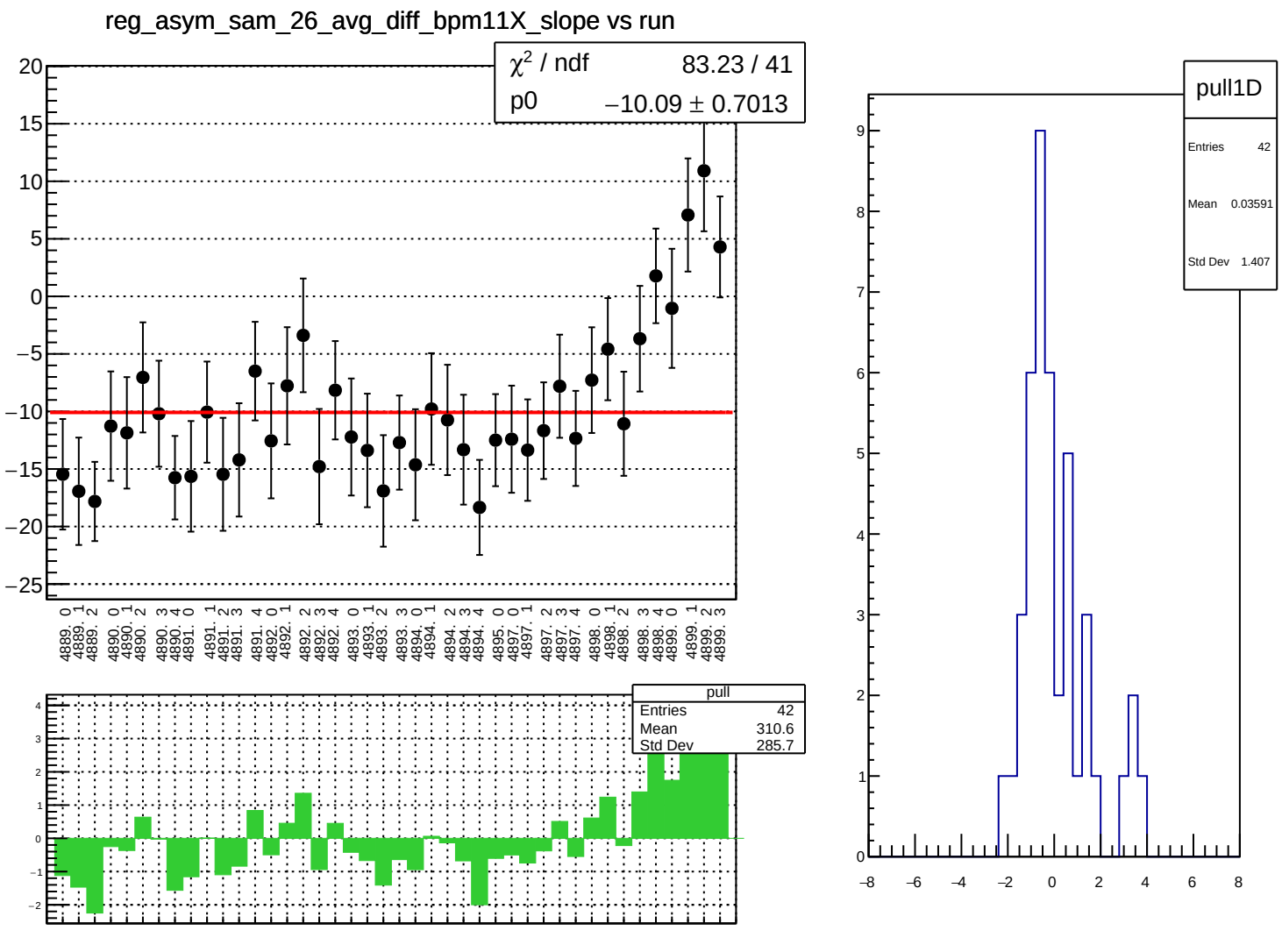

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.67 / 41
p0 33.05 ± 3.647
pull
Entries 42
Mean 140.8
Std Dev 126.4

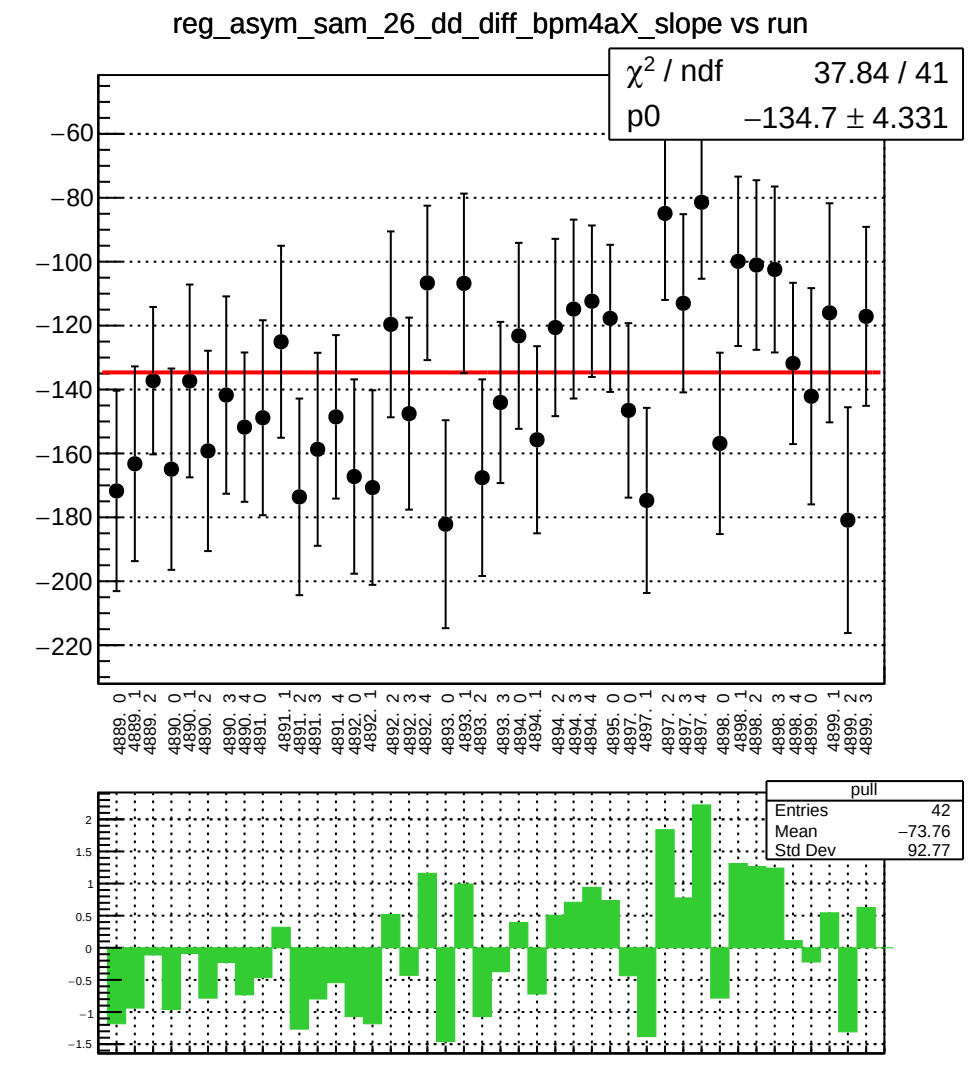

pull1D
Entries 42
Mean −0.005947
Std Dev 0.7818

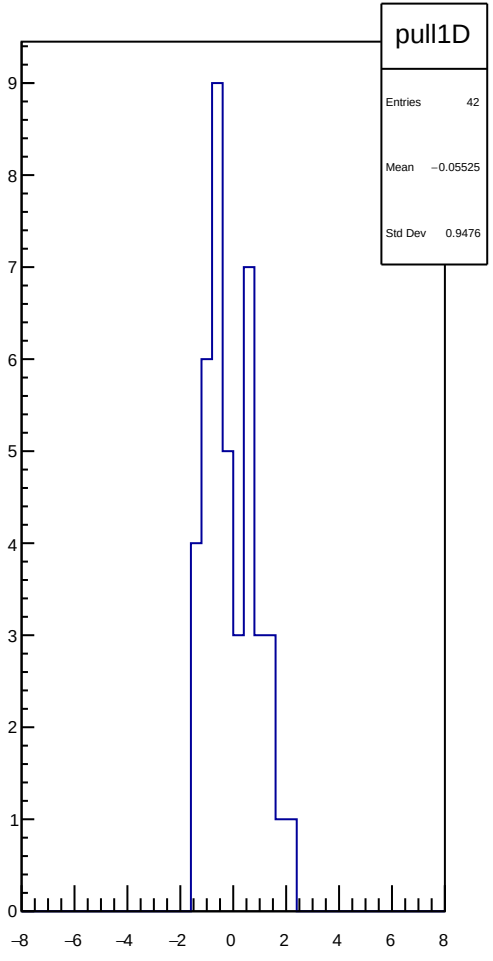

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.58 / 41
p0 −148.7 ± 0.5075
pull
Entries 42
Mean −80.62
Std Dev 102.3

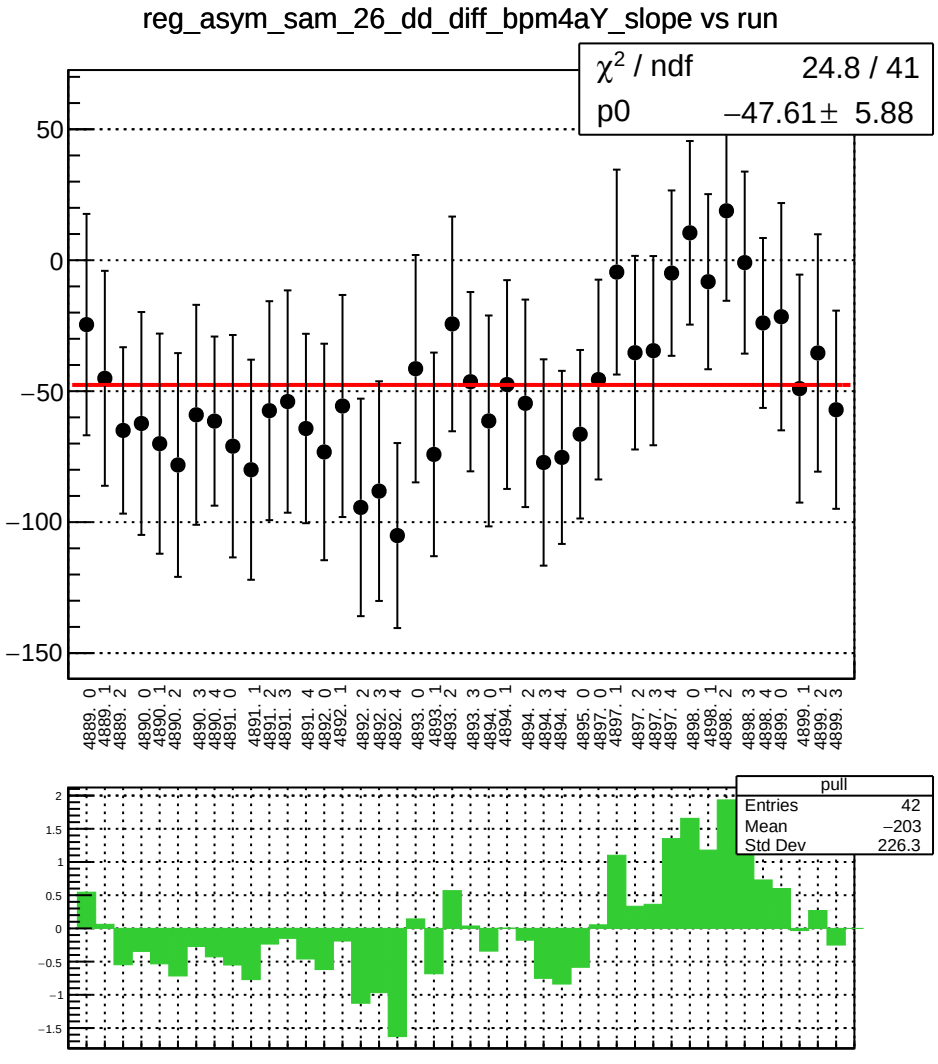

pull1D
Entries 42
Mean 0.03741
Std Dev 1.018

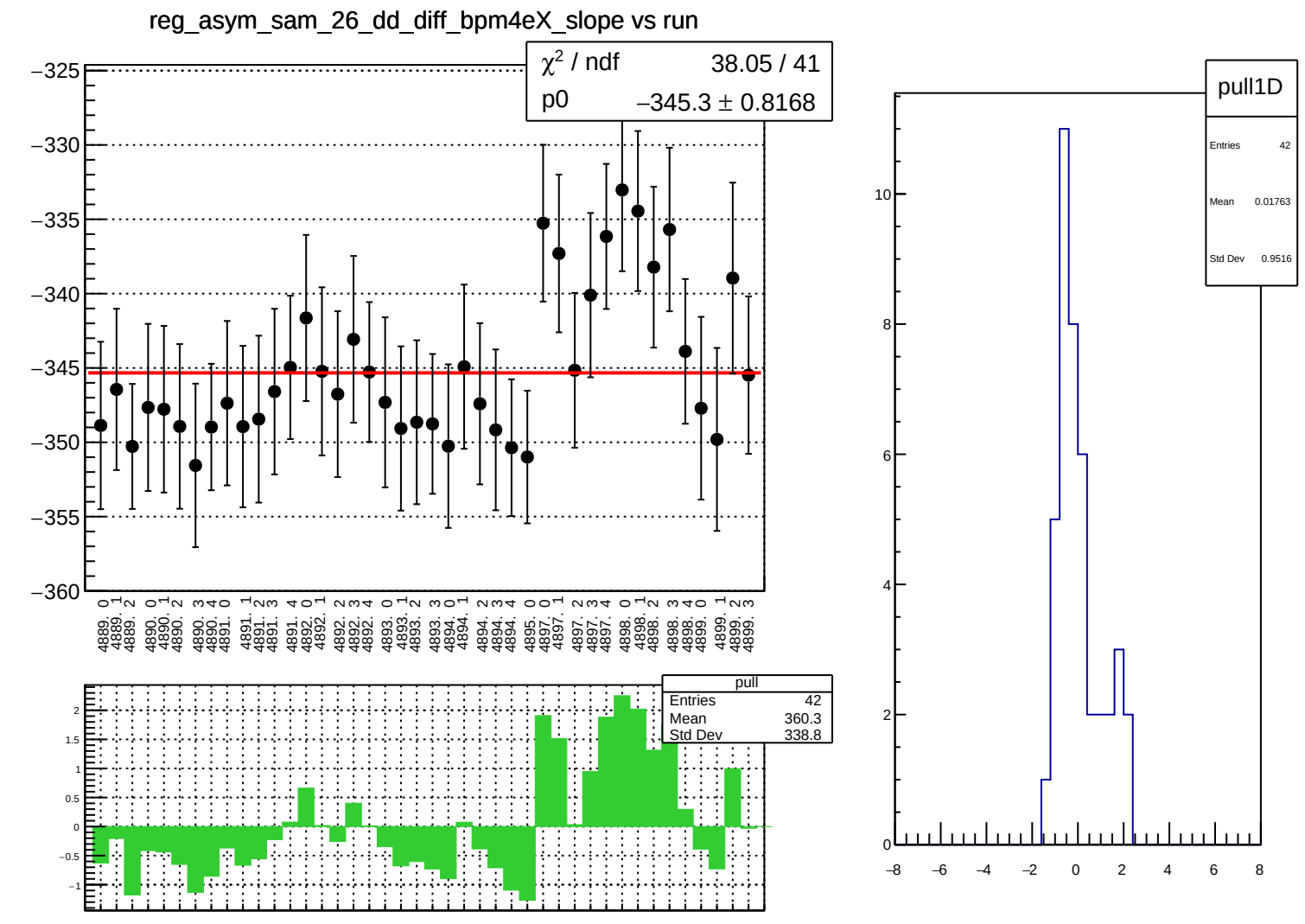

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.74 / 41
p0 82.13 ± 4.056
pull
Entries 42
Mean −65.68
Std Dev 90.57
pull1D
Entries 42
Mean 0.03895
Std Dev 0.7348

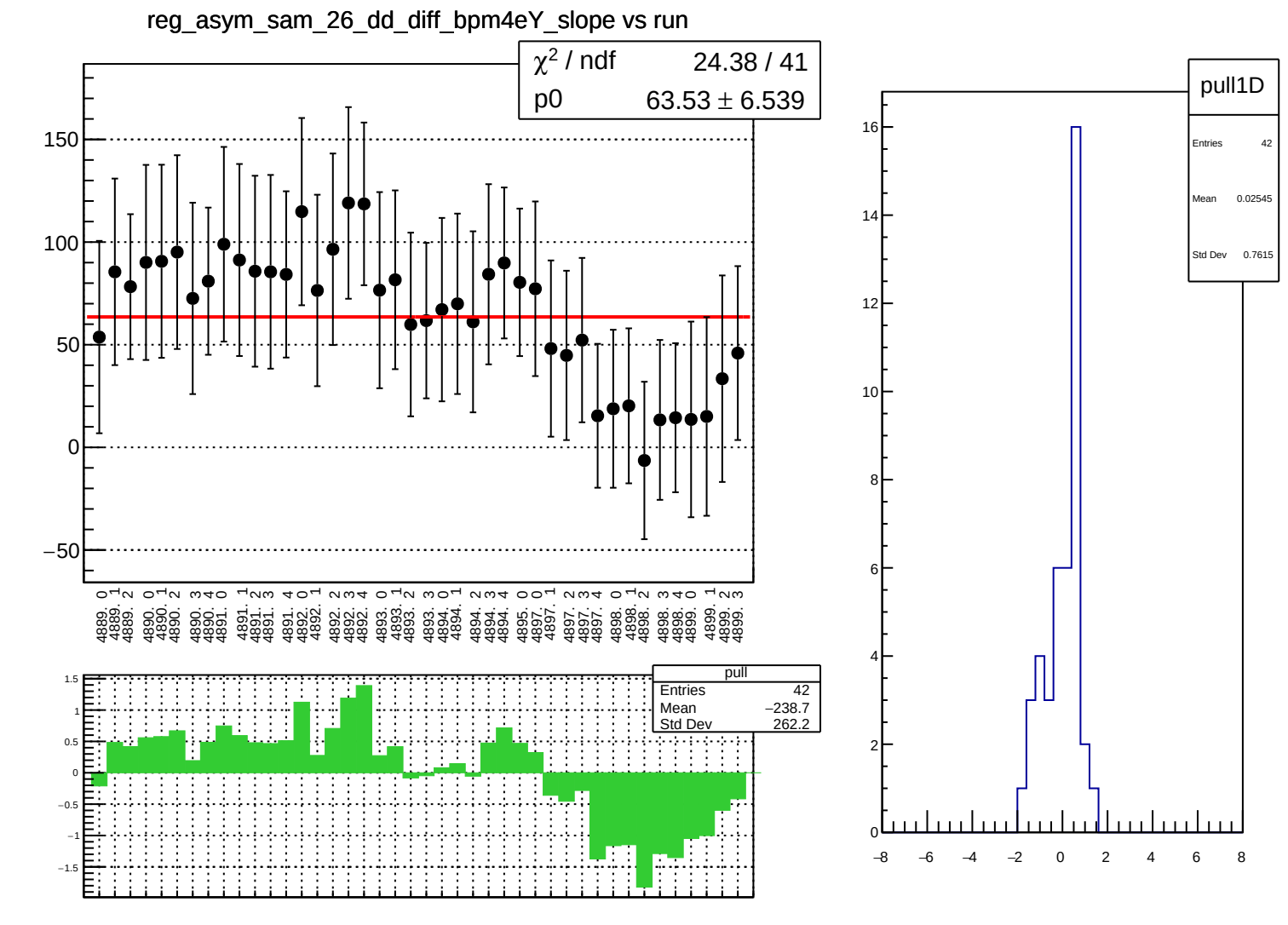

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 83.23 / 41
p0 −10.09 ± 0.7013
pull
Entries 42
Mean 310.6
Std Dev 285.7
pull1D
Entries 42
Mean 0.03591
Std Dev 1.407

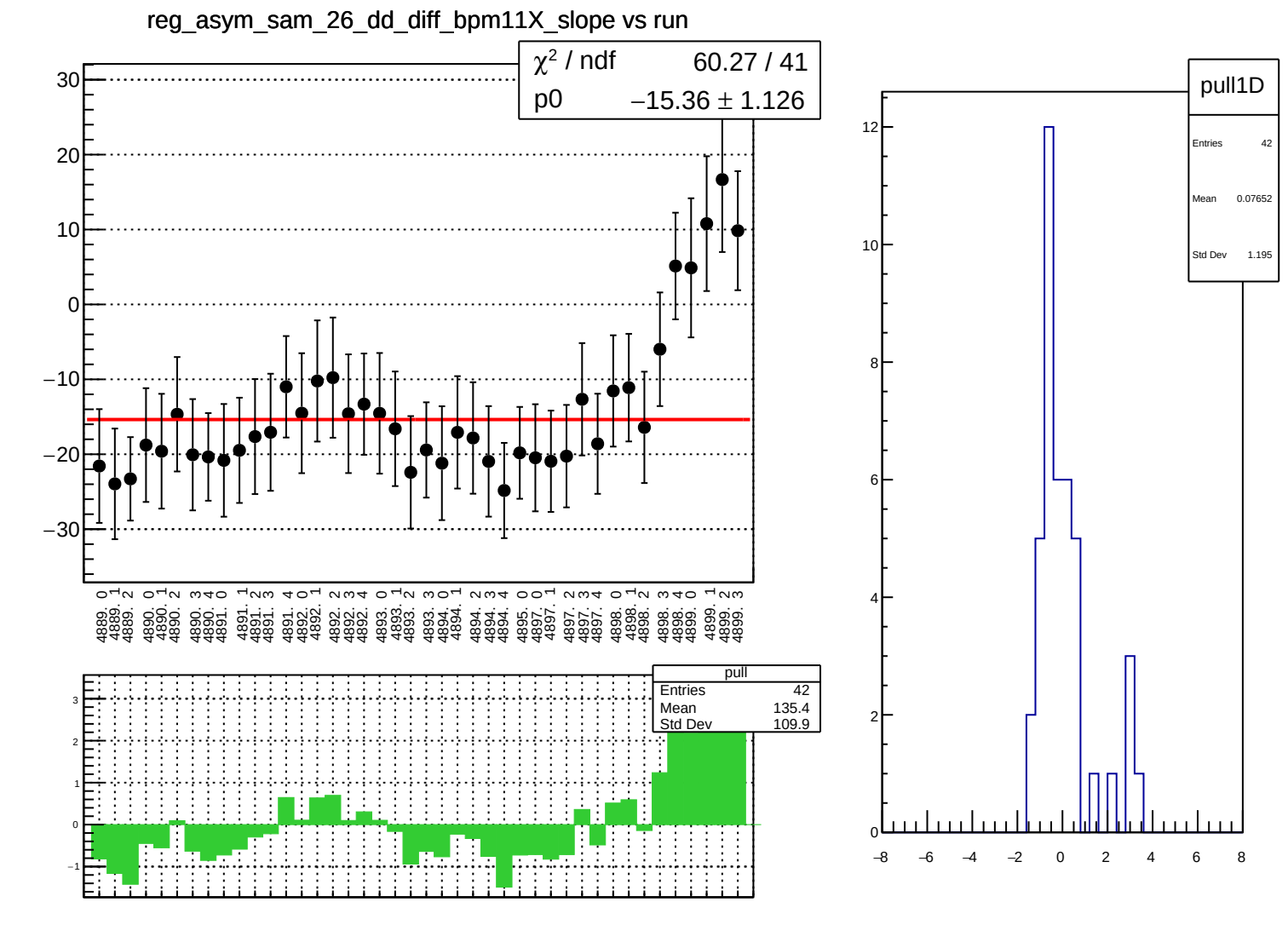

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.84 / 41
p0 −134.7 ± 4.331
pull
Entries 42
Mean −73.76
Std Dev 92.77

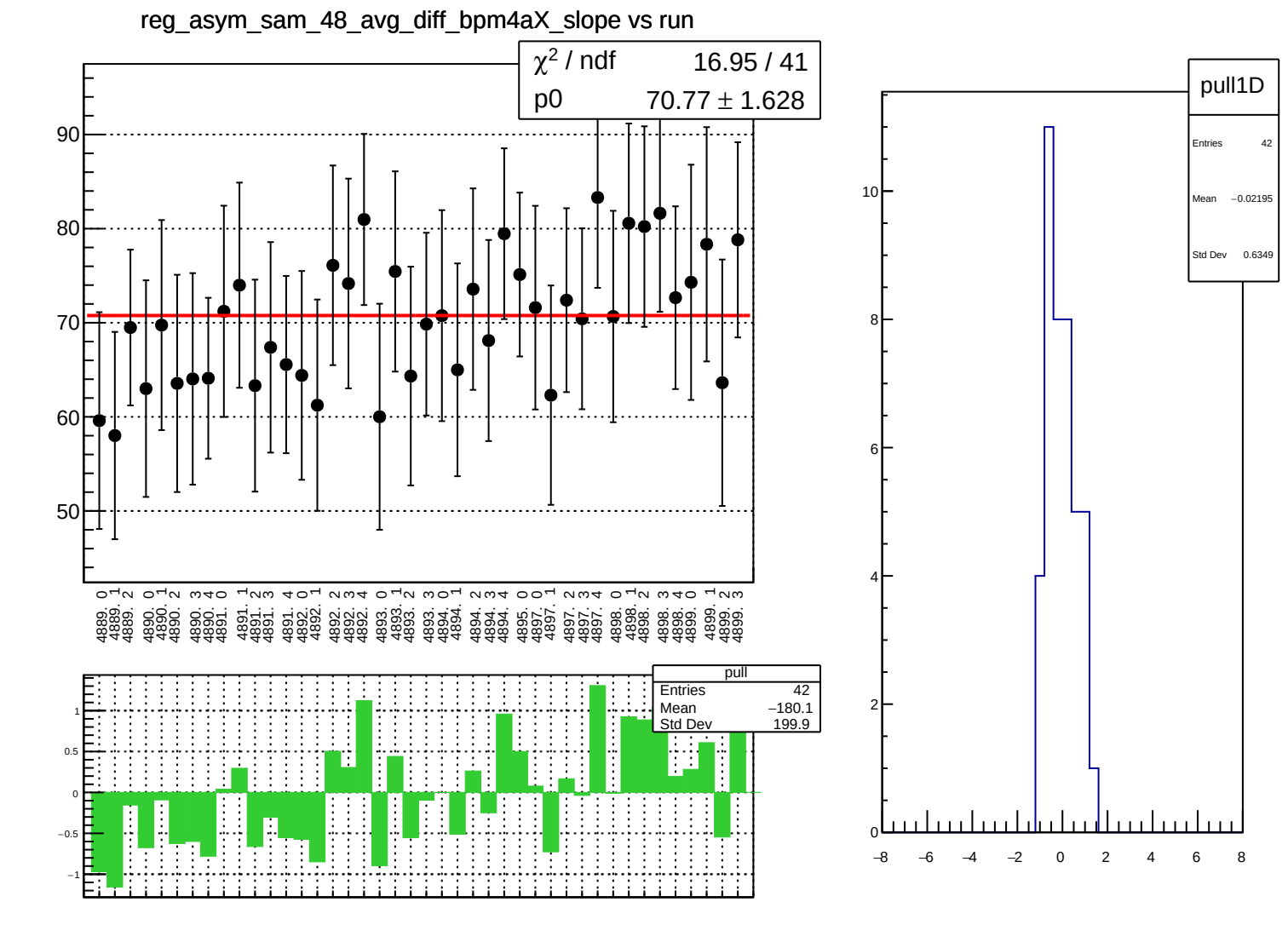

pull1D
Entries 42
Mean −0.05525
Std Dev 0.9476

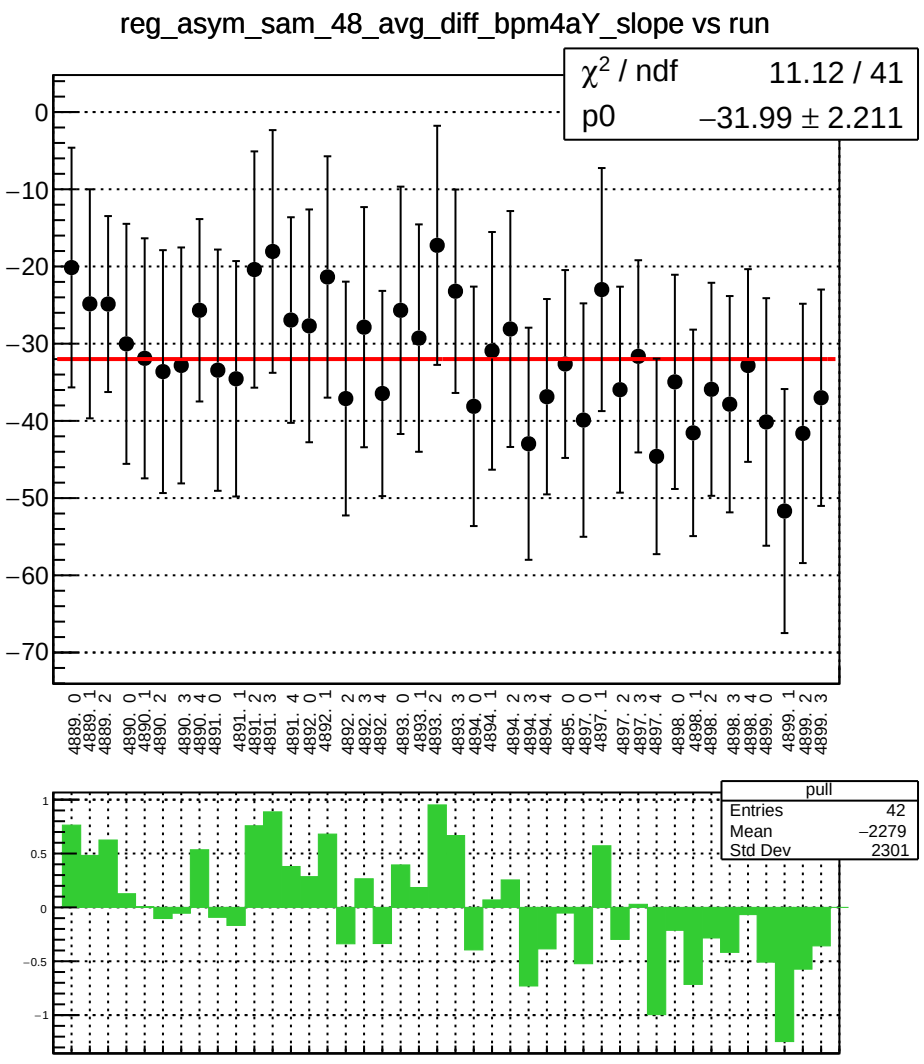

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.8 / 41
p0 −47.61 ± 5.88
50
0
−50
−100
−150
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −203
Std Dev 226.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.02195
Std Dev 0.7681
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

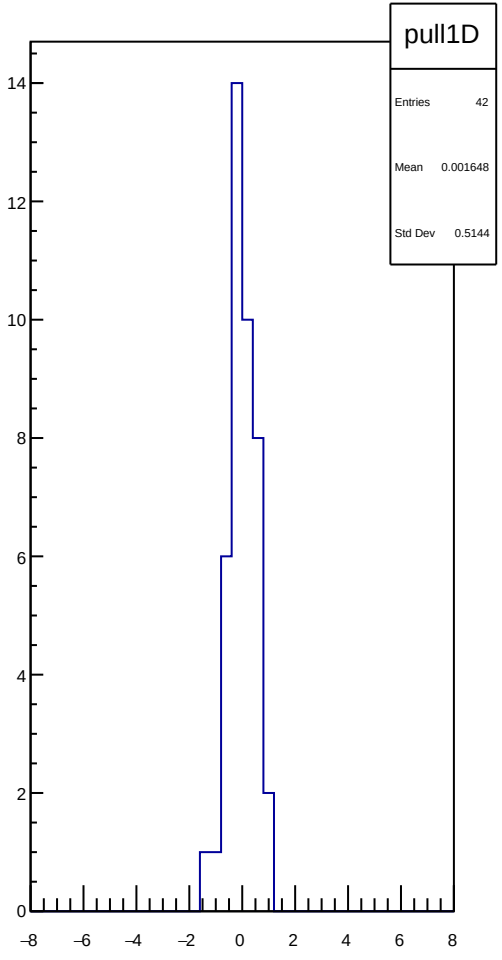

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.05 / 41
p0 −345.3 ± 0.8168
pull
Entries 42
Mean 360.3
Std Dev 338.8
pull1D
Entries 42
Mean 0.01763
Std Dev 0.9516

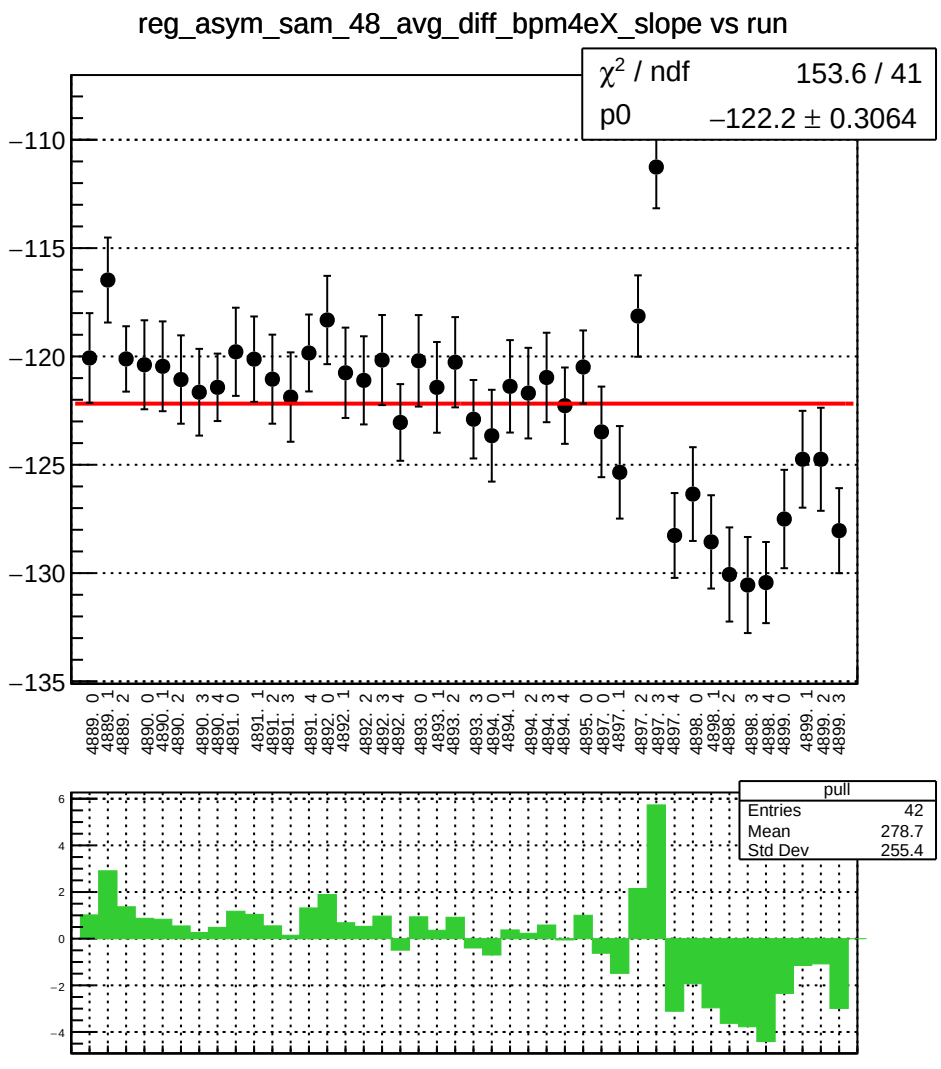

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.38 / 41
p0 63.53 ± 6.539
150
100
50
0
−50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −238.7
Std Dev 262.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.02545
Std Dev 0.7615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

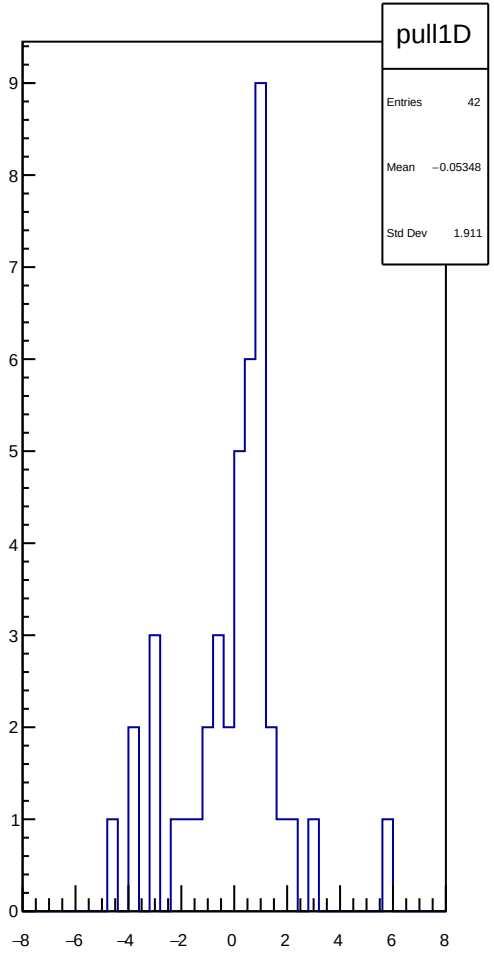

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 60.27 / 41
p0 −15.36 ± 1.126
pull
Entries 42
Mean 135.4
Std Dev 109.9
pull1D
Entries 42
Mean 0.07652
Std Dev 1.195

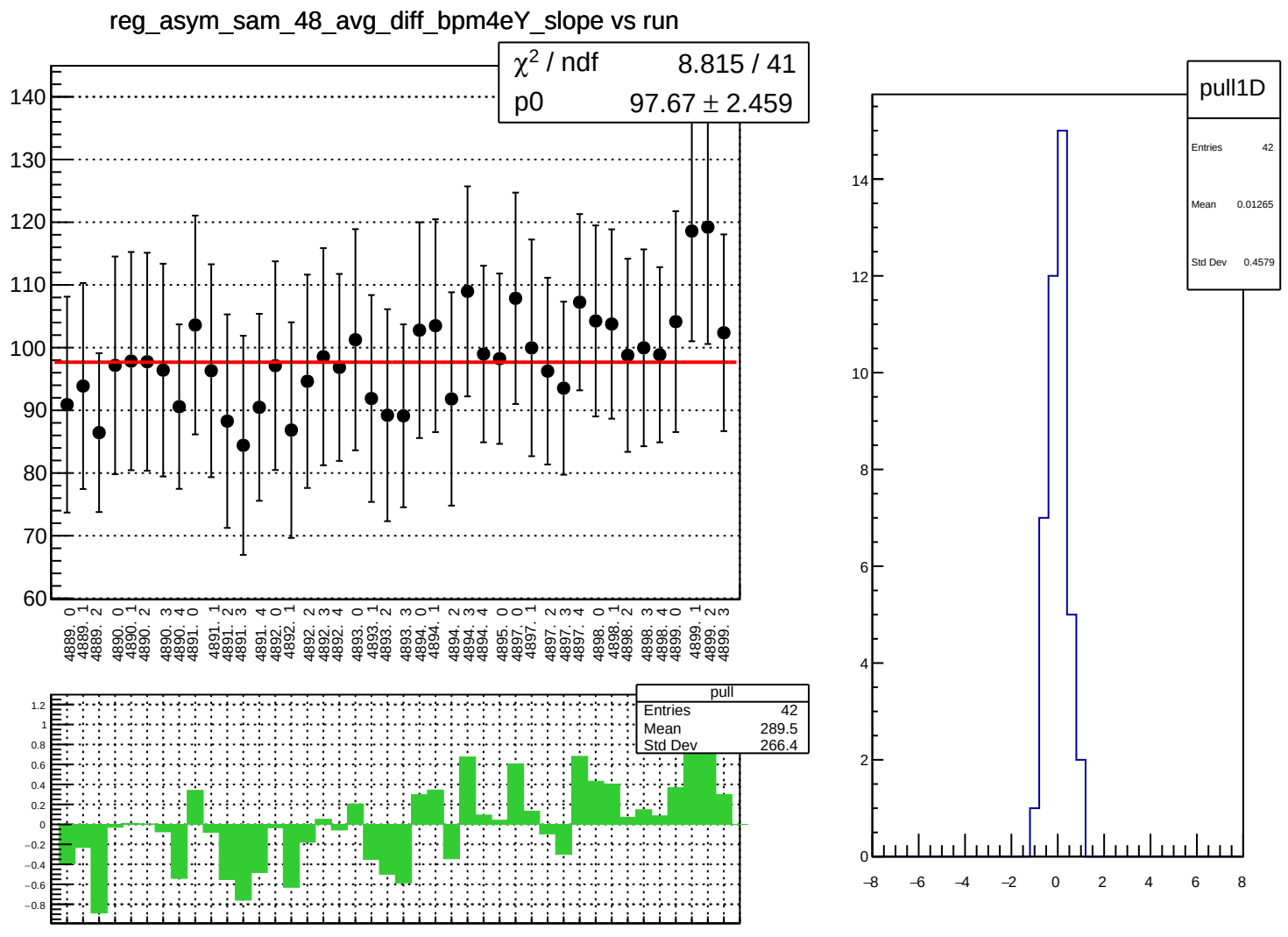

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.95 / 41
p0 70.77 ± 1.628
90
80
70
60
50
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −180.1
Std Dev 199.9
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean −0.02195
Std Dev 0.6349
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

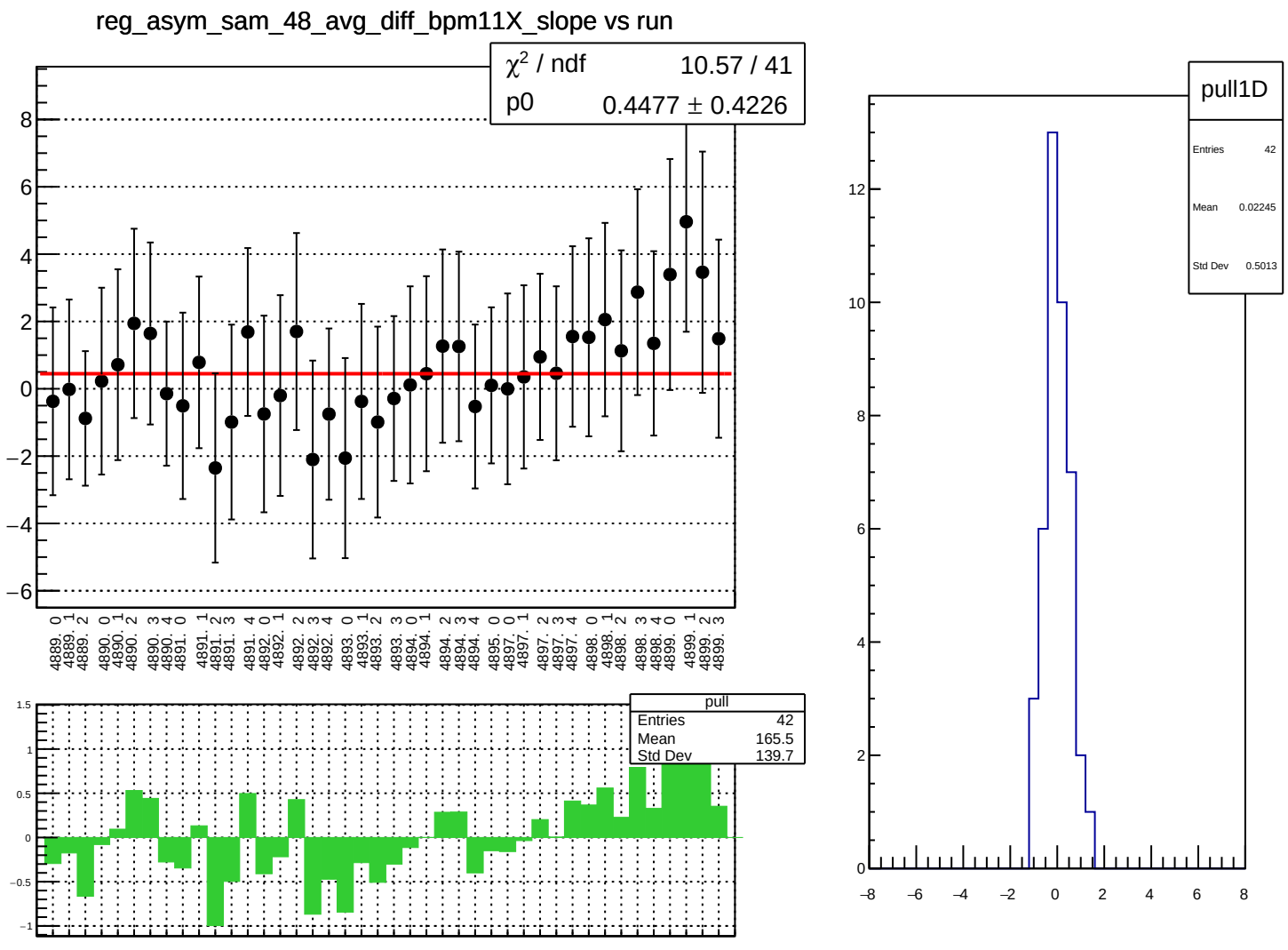

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 41
p0 −31.99 ± 2.211
pull
Entries 42
Mean −2279
Std Dev 2301

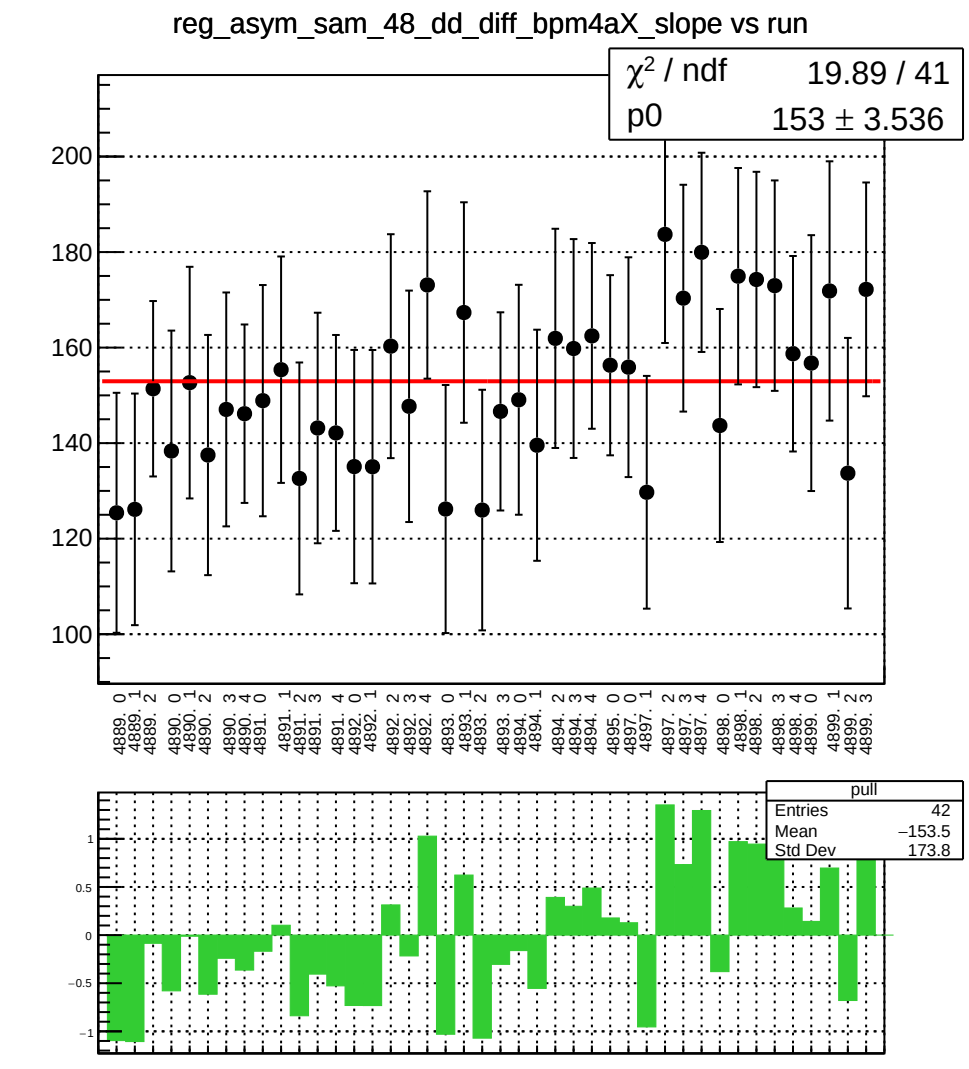

pull1D
Entries 42
Mean 0.001648
Std Dev 0.5144

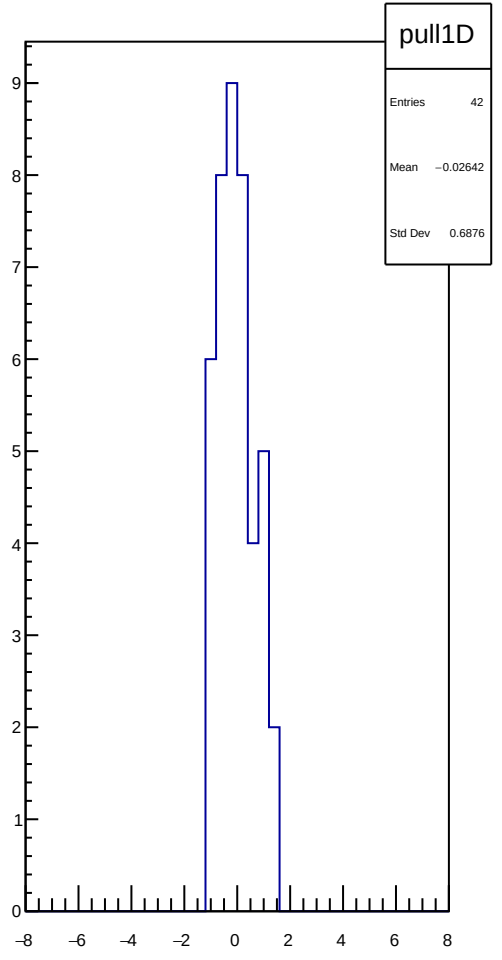

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 153.6 / 41
p0 −122.2 ± 0.3064
pull
Entries 42
Mean 278.7
Std Dev 255.4

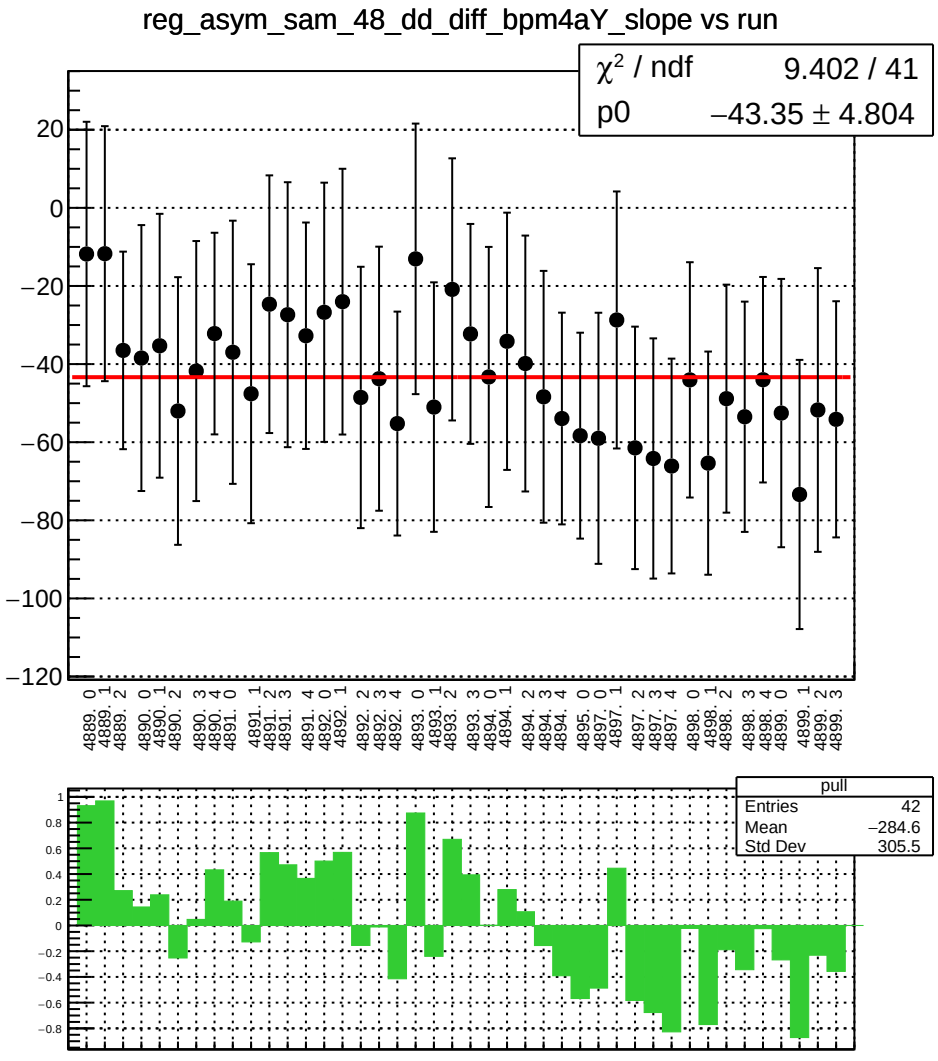

pull1D
Entries 42
Mean −0.05348
Std Dev 1.911

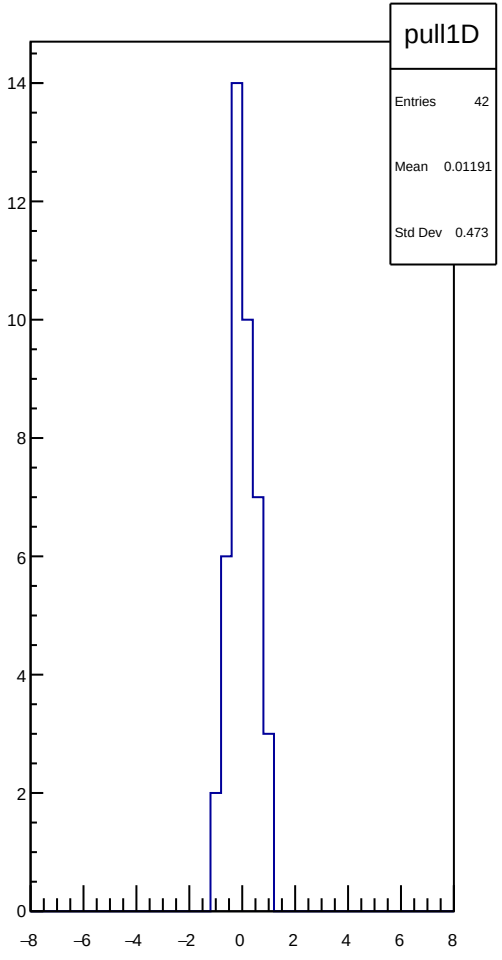

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.815 / 41
p0 97.67 ± 2.459
pull
Entries 42
Mean 289.5
Std Dev 266.4
pull1D
Entries 42
Mean 0.01265
Std Dev 0.4579

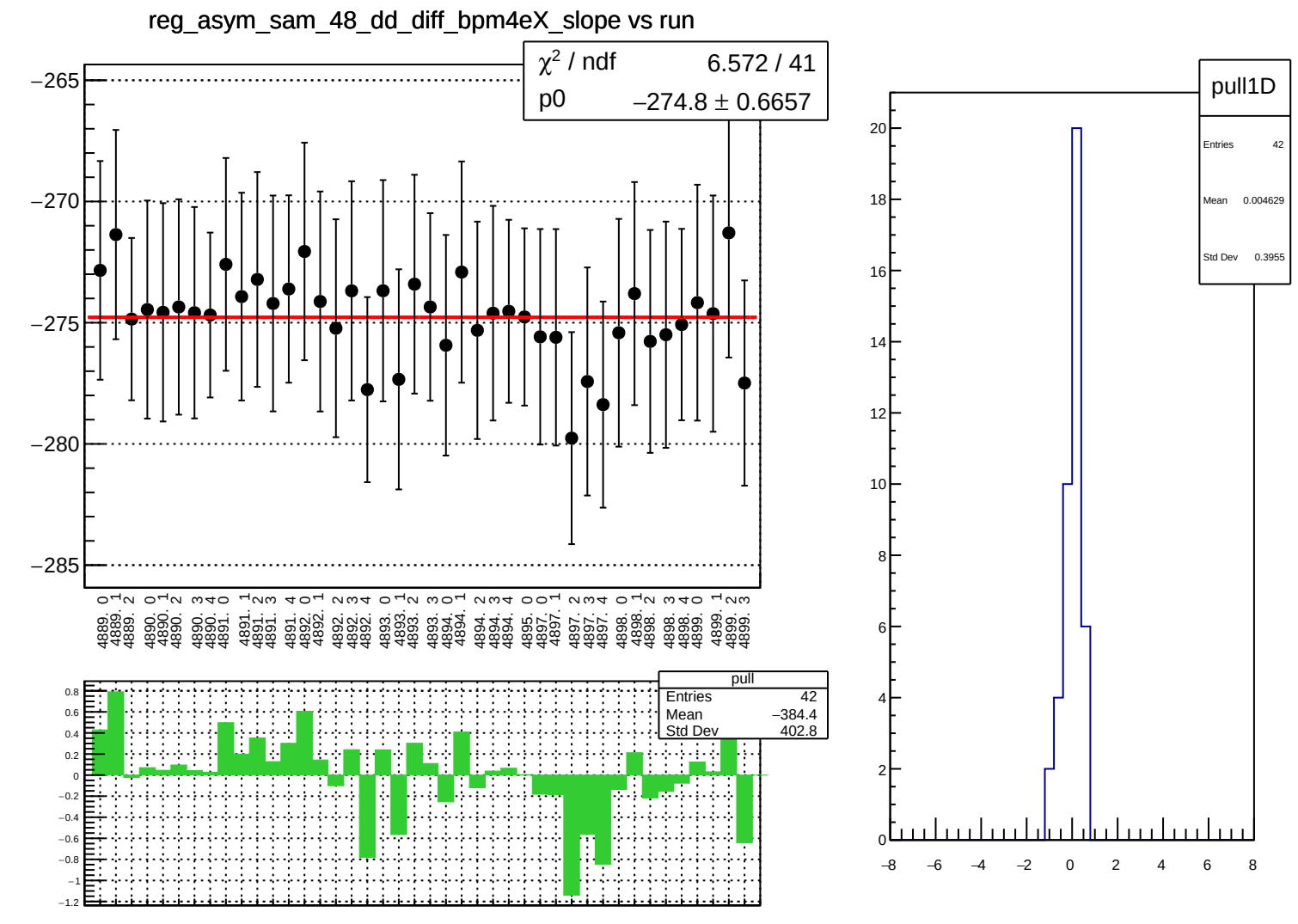

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 10.57 / 41
p0 0.4477 ± 0.4226
pull
Entries 42
Mean 165.5
Std Dev 139.7
pull1D
Entries 42
Mean 0.02245
Std Dev 0.5013

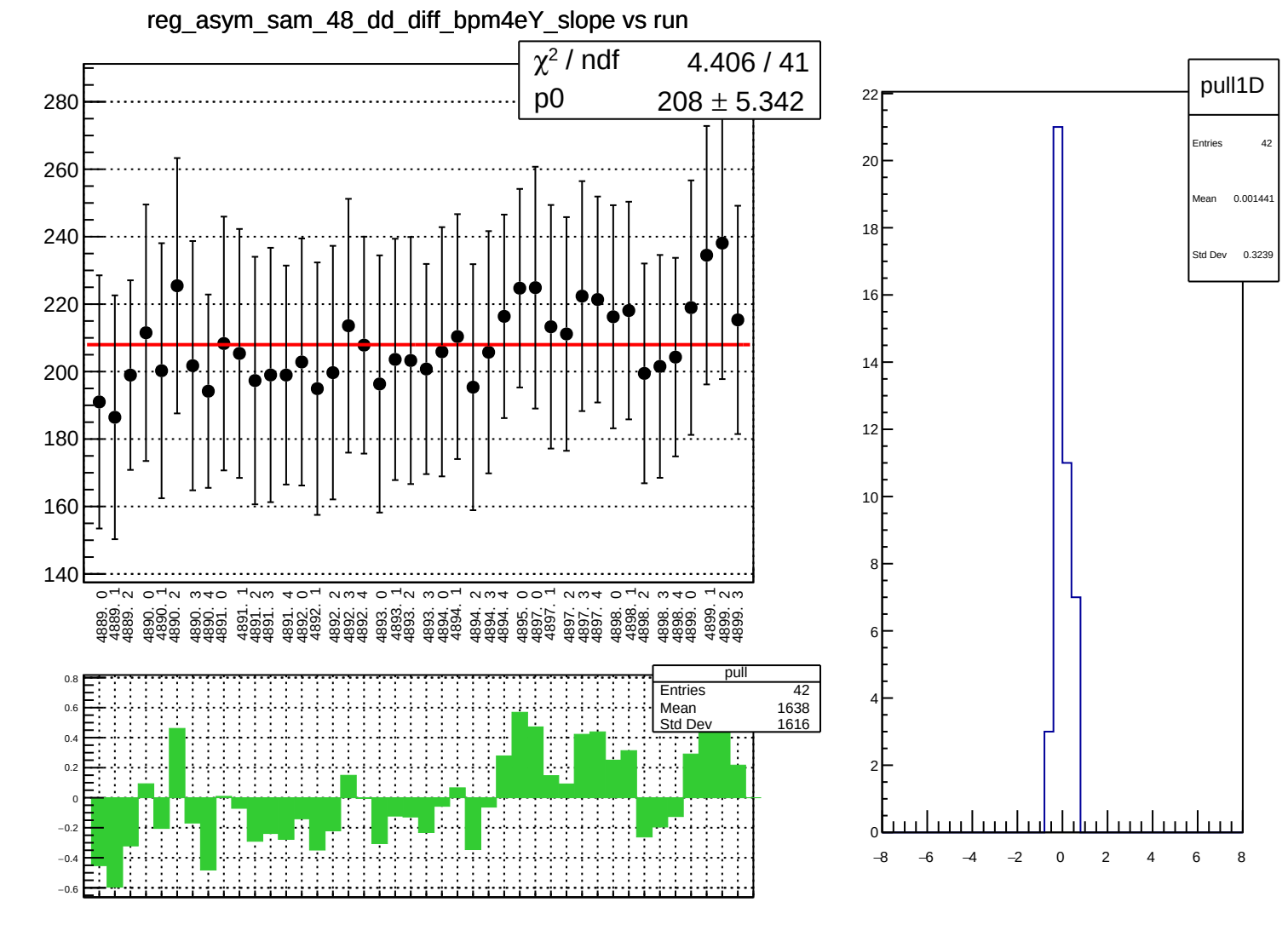

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.89 / 41
p0 153 ± 3.536
200
180
160
140
120
100
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −153.5
Std Dev 173.8
1
0.5
0
−0.5
−1

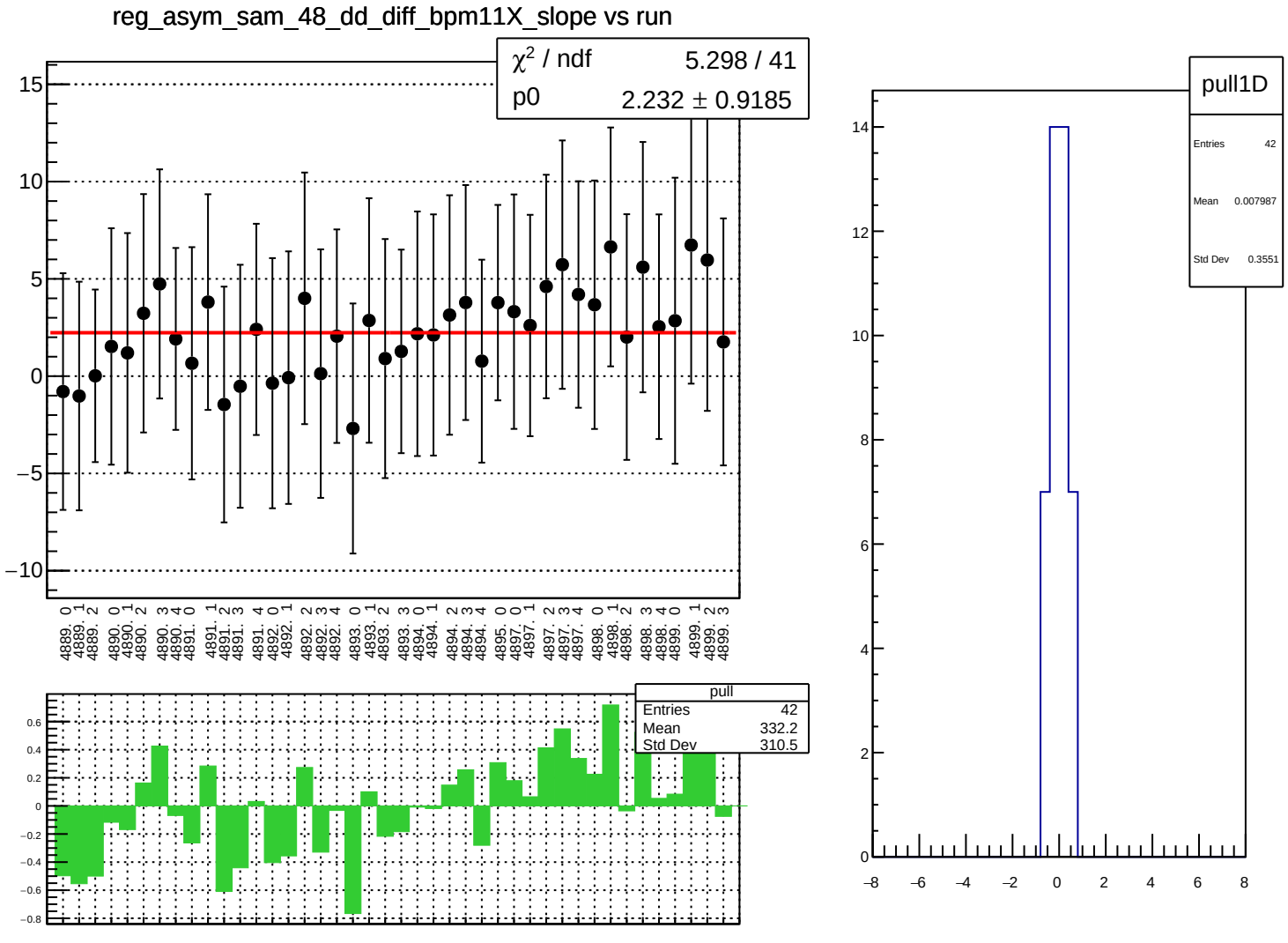

pull1D
Entries 42
Mean −0.02642
Std Dev 0.6876
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

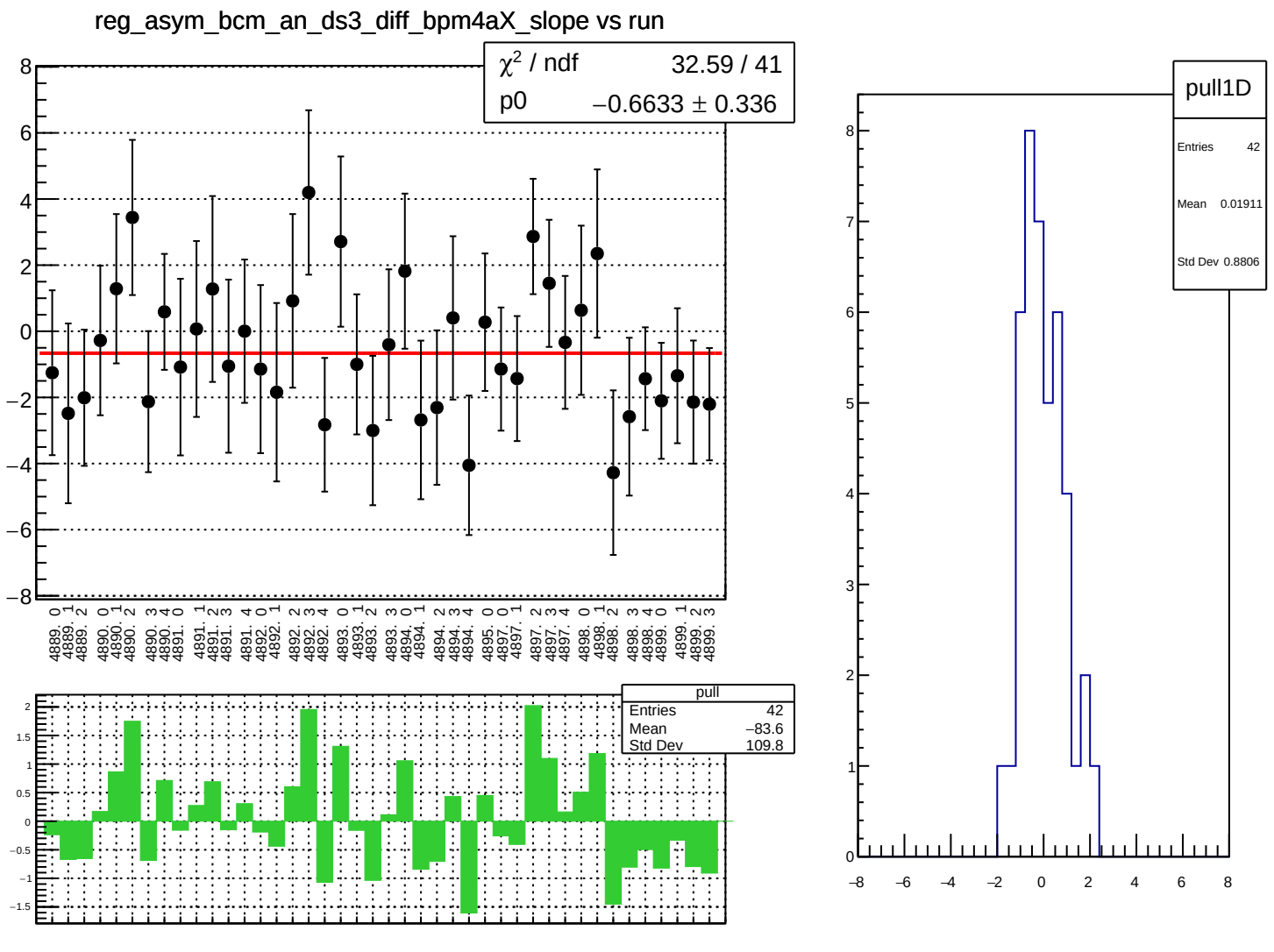

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.402 / 41
p0 −43.35 ± 4.804
pull
Entries 42
Mean −284.6
Std Dev 305.5

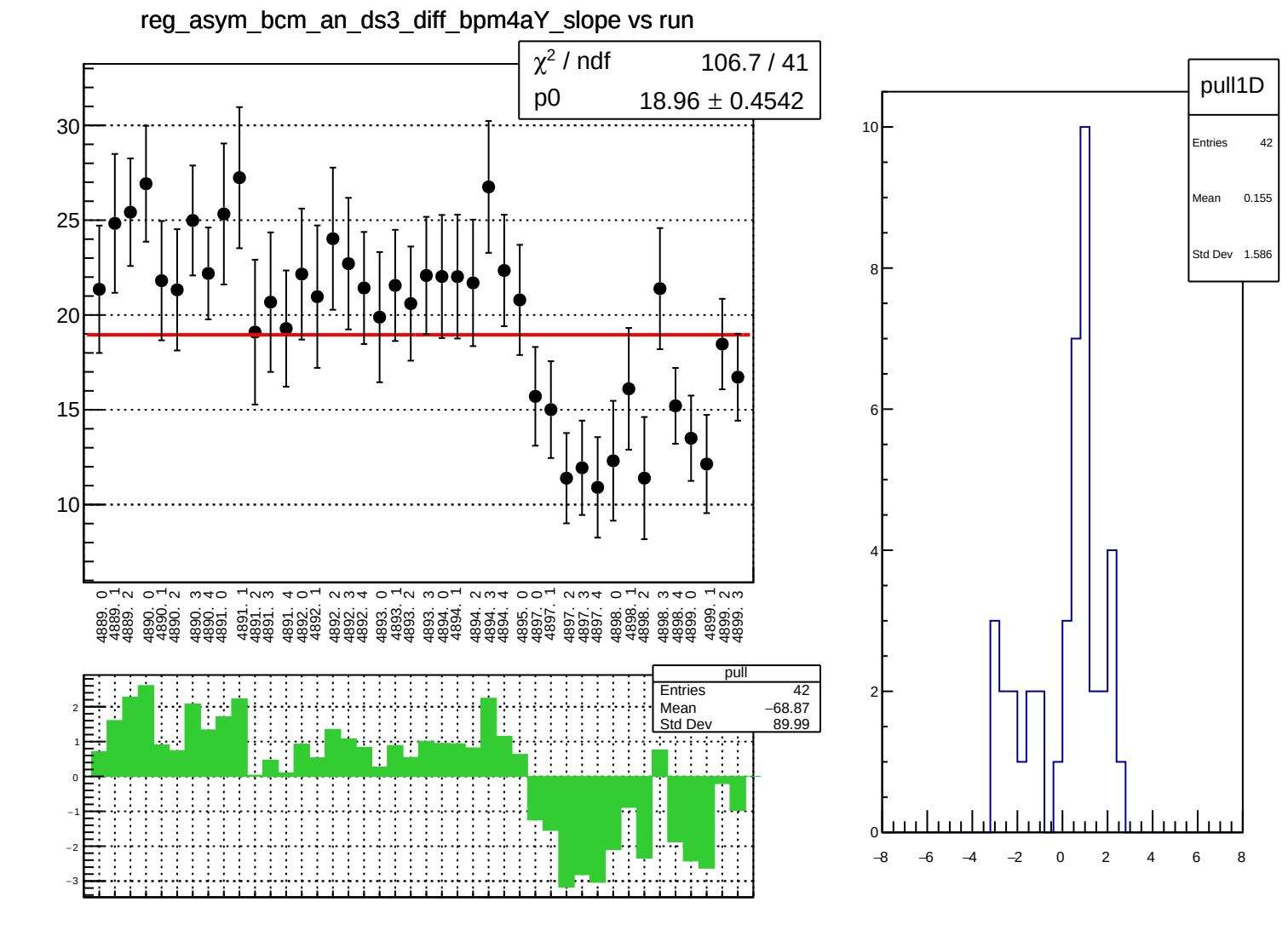

pull1D
Entries 42
Mean 0.01191
Std Dev 0.473

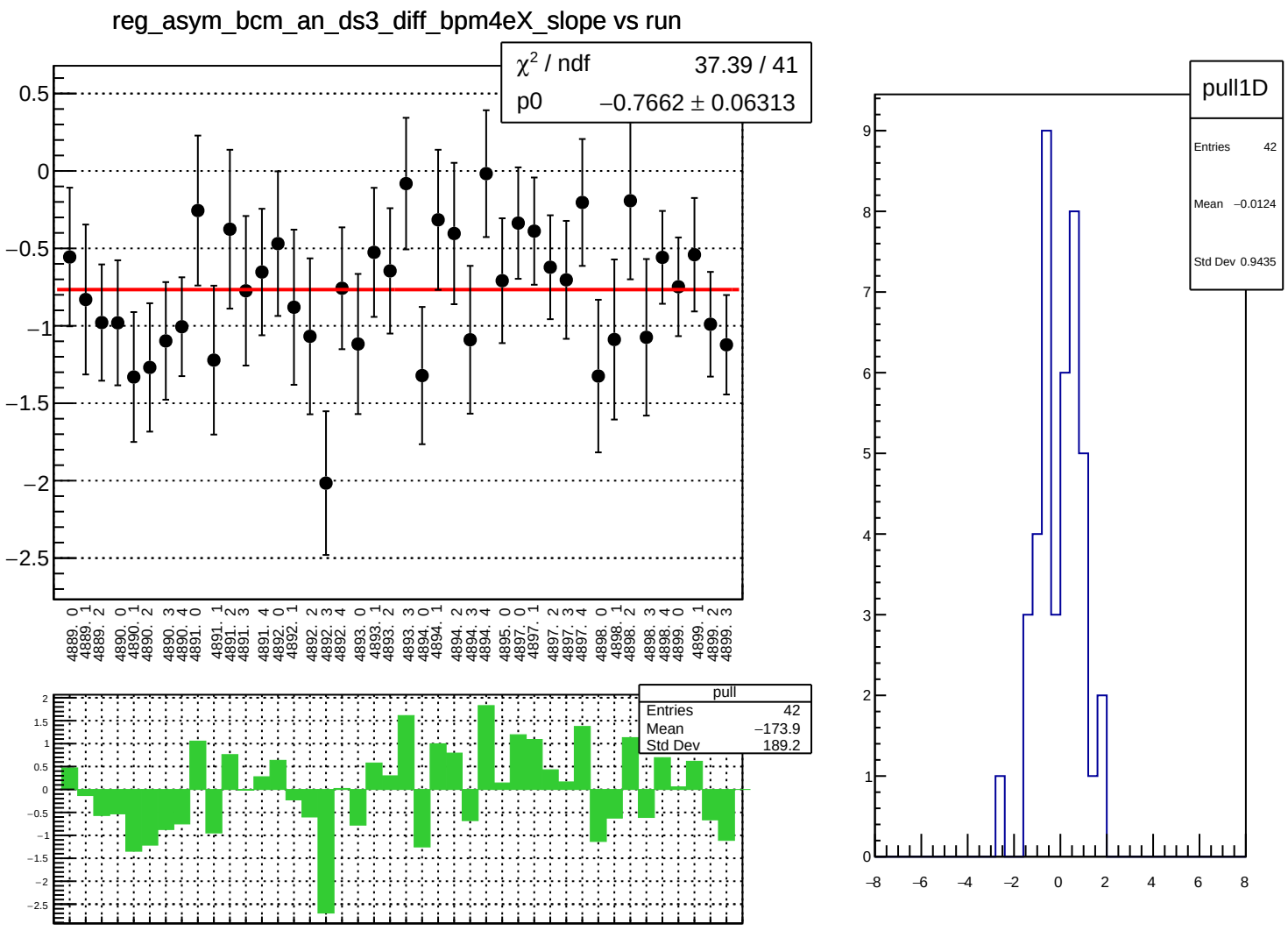

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.572 / 41
p0 −274.8 ± 0.6657
−265
−270
−275
−280
−285
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −384.4
Std Dev 402.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 42
Mean 0.004629
Std Dev 0.3955
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

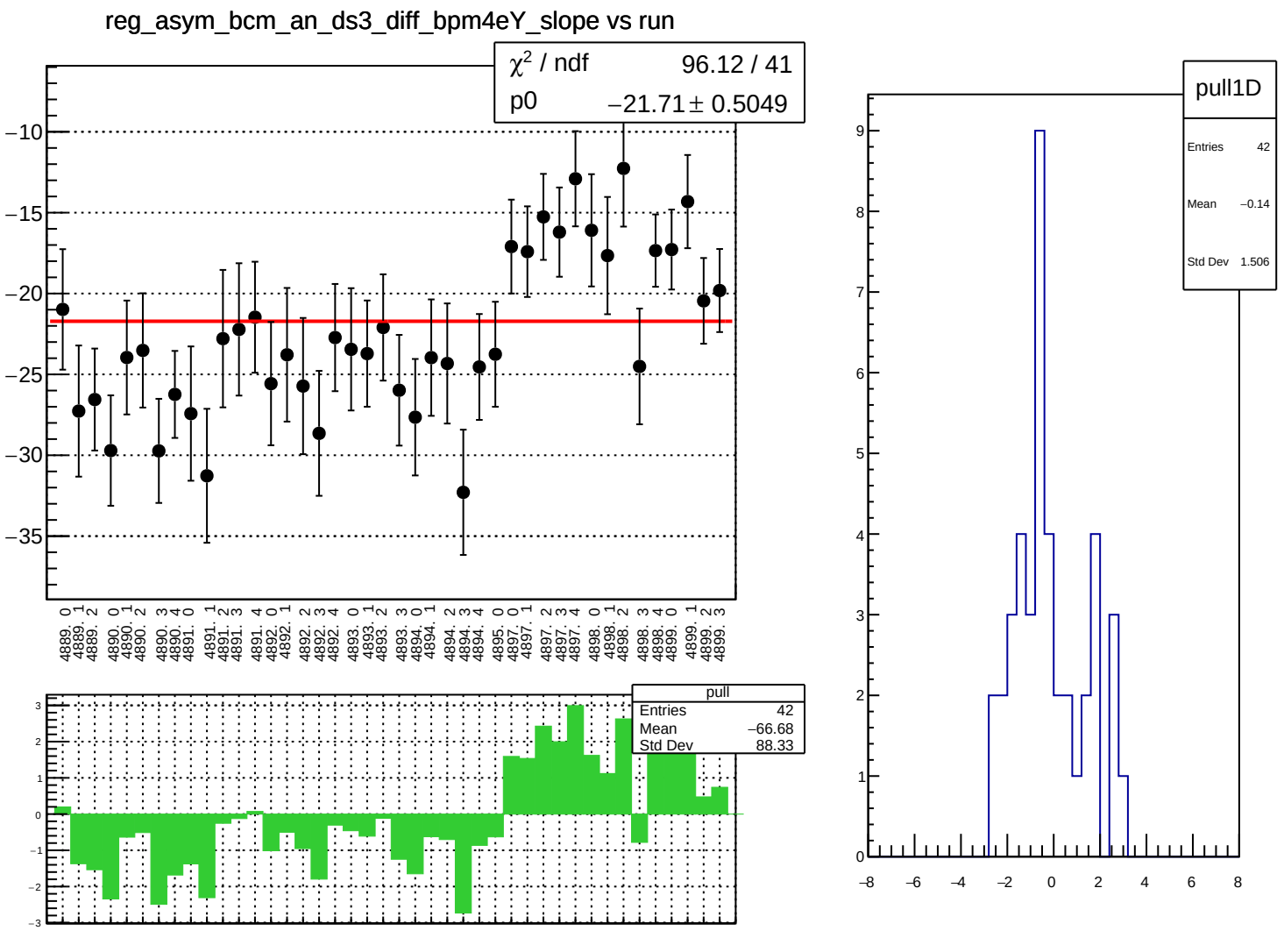

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.406 / 41
p0 208 ± 5.342
pull
Entries 42
Mean 1638
Std Dev 1616
pull1D
Entries 42
Mean 0.001441
Std Dev 0.3239

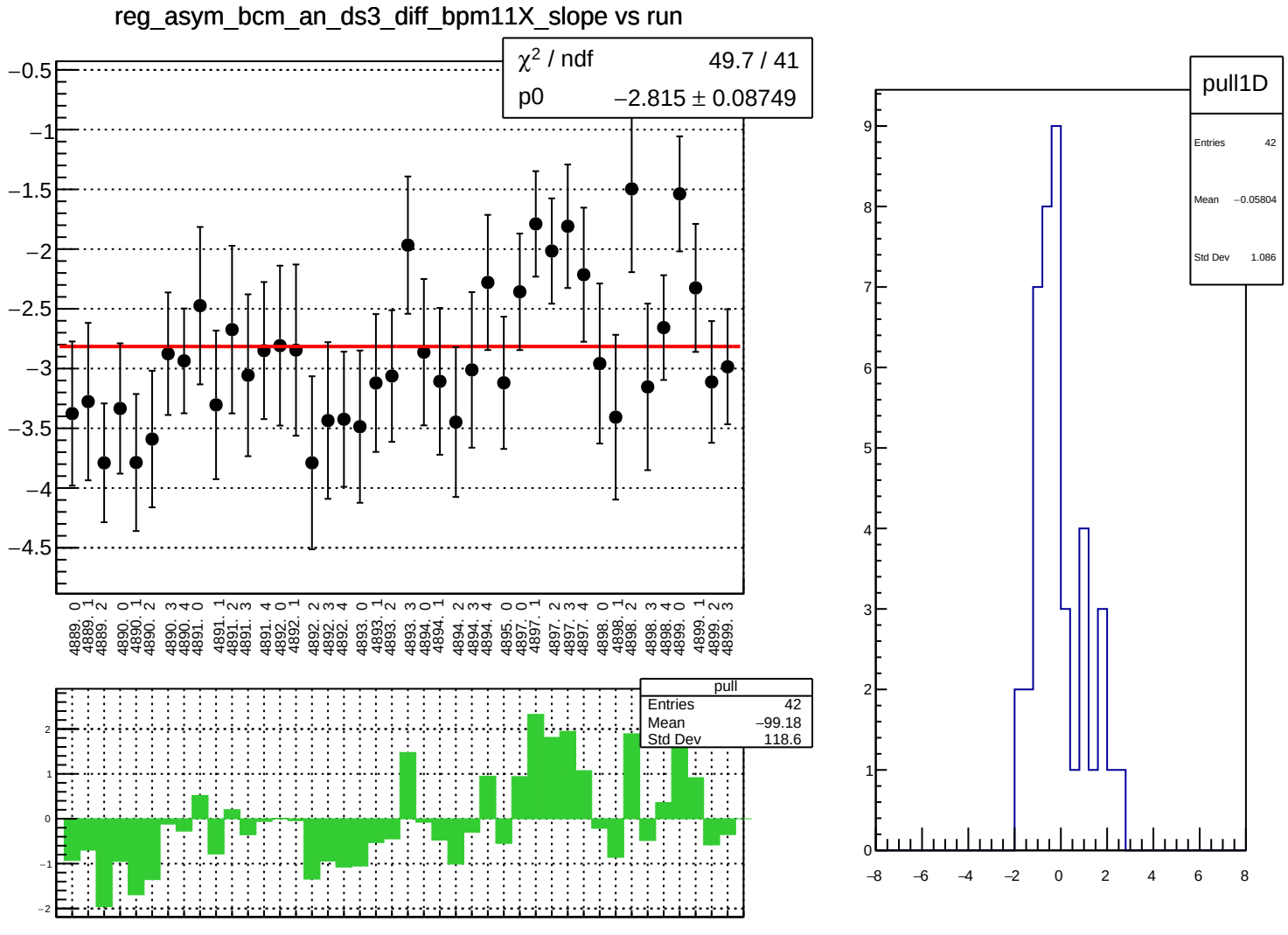

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 5.298 / 41
p0 2.232 ± 0.9185
15
10
5
0
−5
−10
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 332.2
Std Dev 310.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean 0.007987
Std Dev 0.3551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

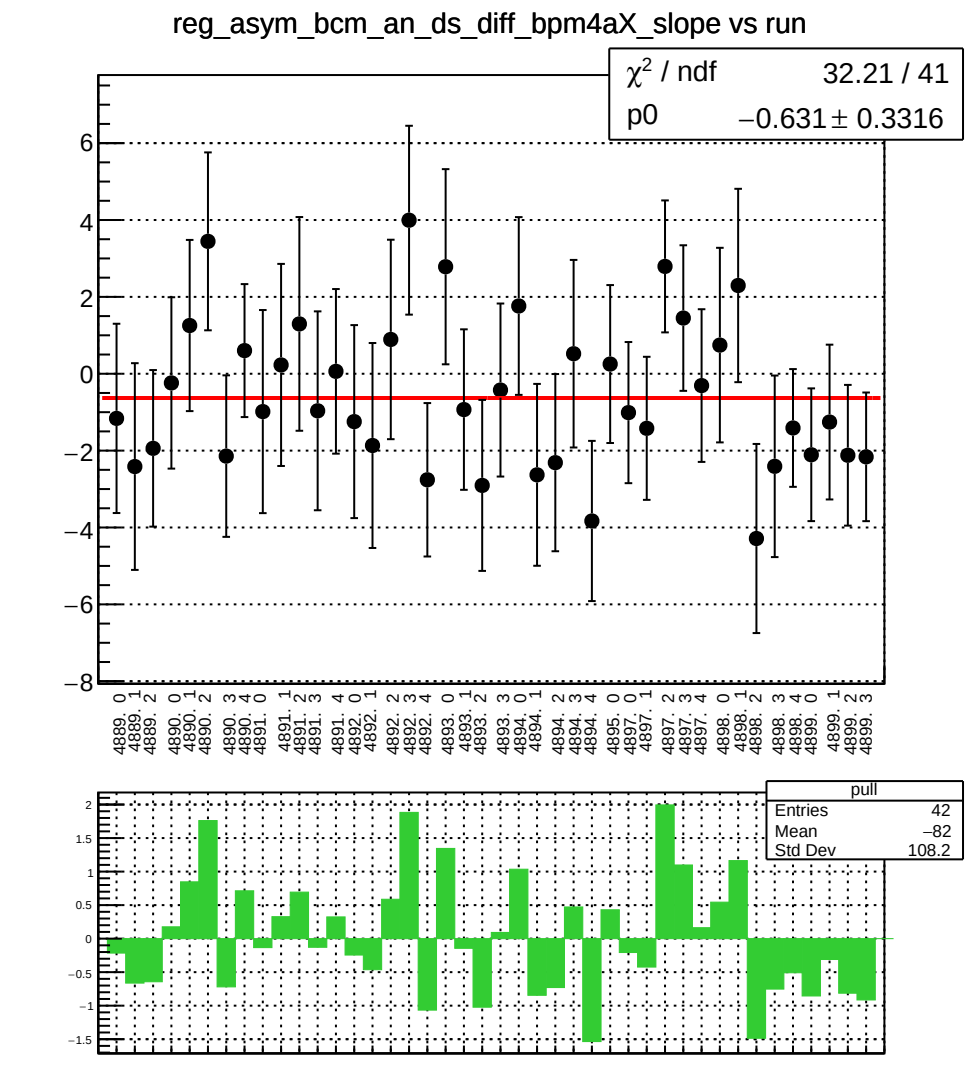

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 32.59 / 41
p0 −0.6633 ± 0.336
pull
Entries 42
Mean −83.6
Std Dev 109.8
pull1D
Entries 42
Mean 0.01911
Std Dev 0.8806

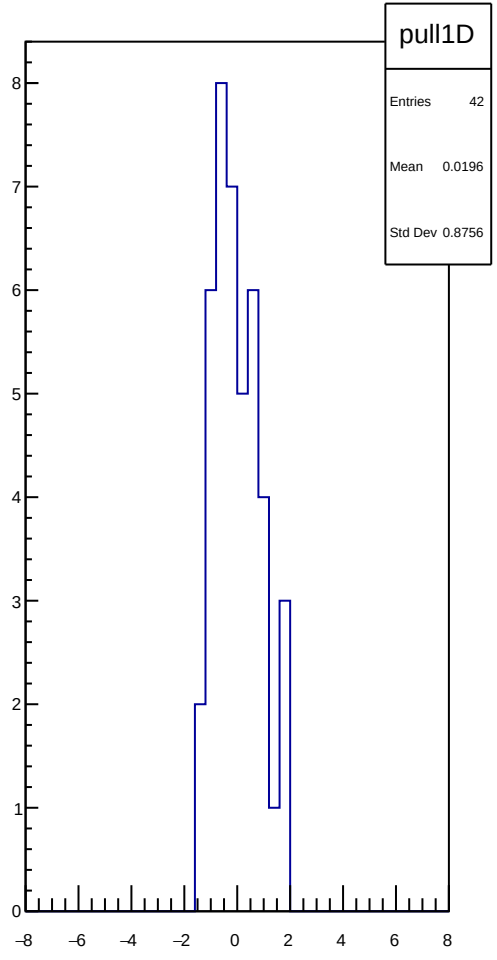

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.7 / 41
p0 18.96 ± 0.4542
pull
Entries 42
Mean −68.87
Std Dev 89.99
pull1D
Entries 42
Mean 0.155
Std Dev 1.586

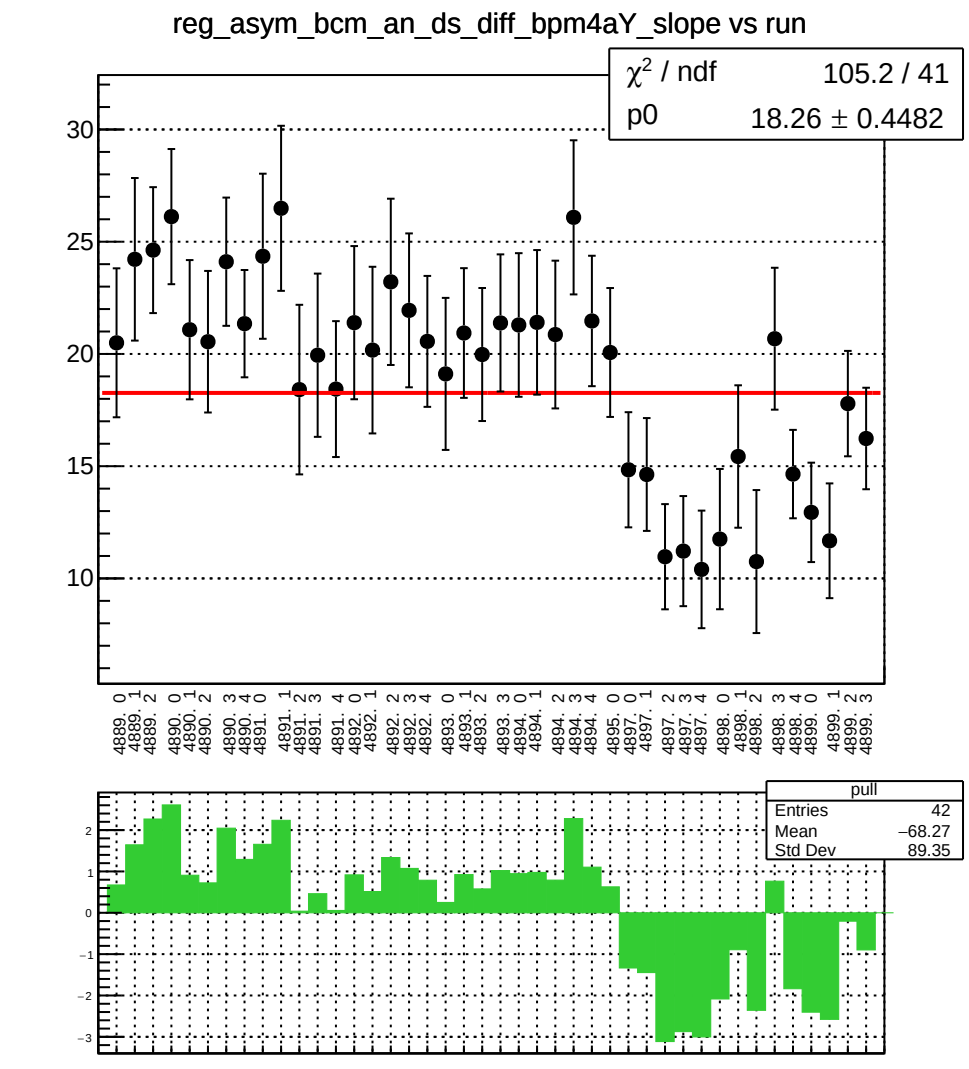

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 37.39 / 41
p0 −0.7662 ± 0.06313
pull
Entries 42
Mean −173.9
Std Dev 189.2
pull1D
Entries 42
Mean −0.0124
Std Dev 0.9435

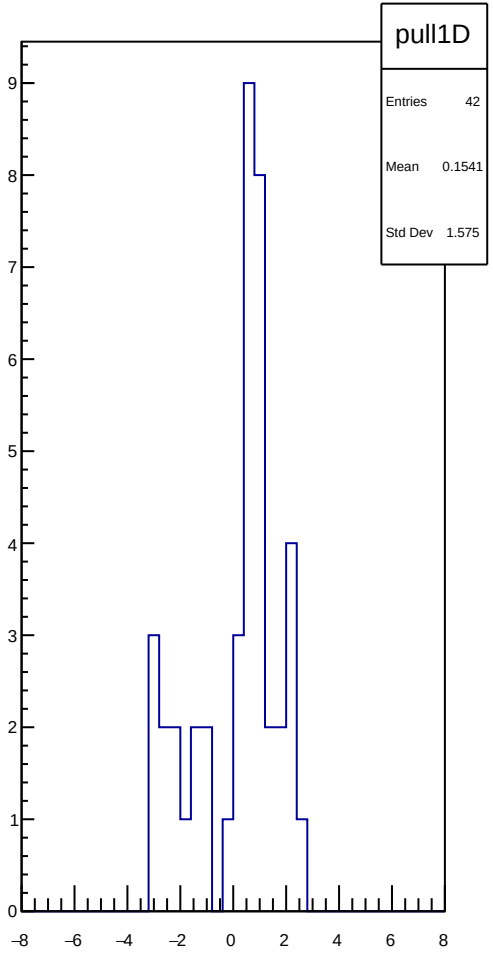

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 96.12 / 41
p0 −21.71 ± 0.5049
pull
Entries 42
Mean −66.68
Std Dev 88.33
pull1D
Entries 42
Mean −0.14
Std Dev 1.506

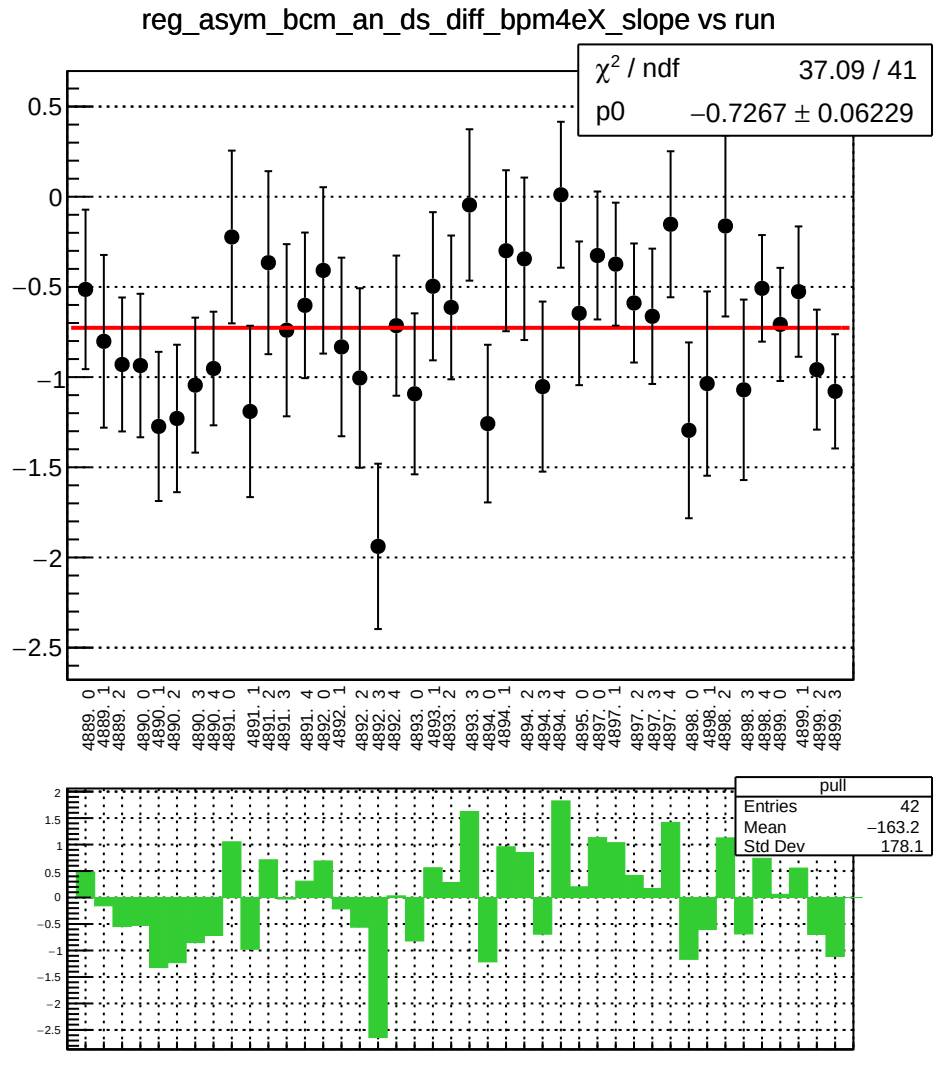

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 49.7 / 41
p0 −2.815 ± 0.08749
pull
Entries 42
Mean −99.18
Std Dev 118.6
pull1D
Entries 42
Mean −0.05804
Std Dev 1.086

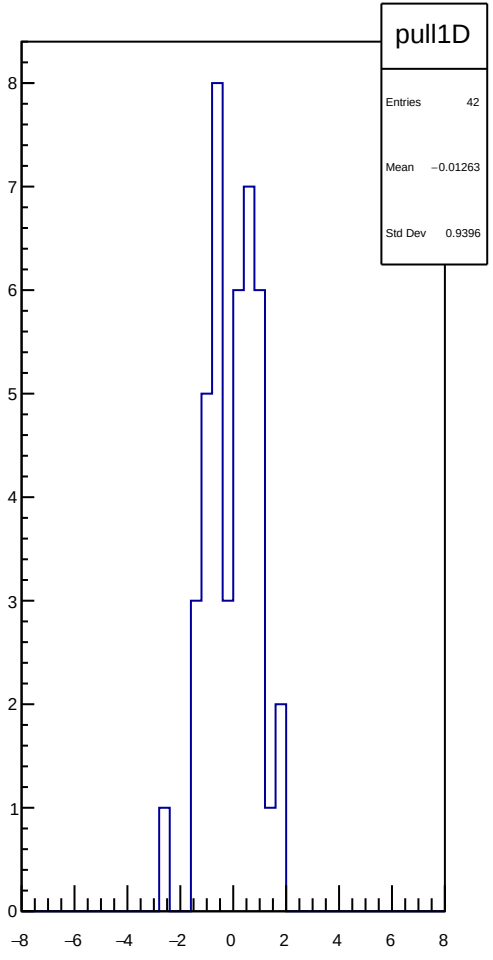

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 32.21 / 41
p0 −0.631 ± 0.3316
pull
Entries 42
Mean −82
Std Dev 108.2

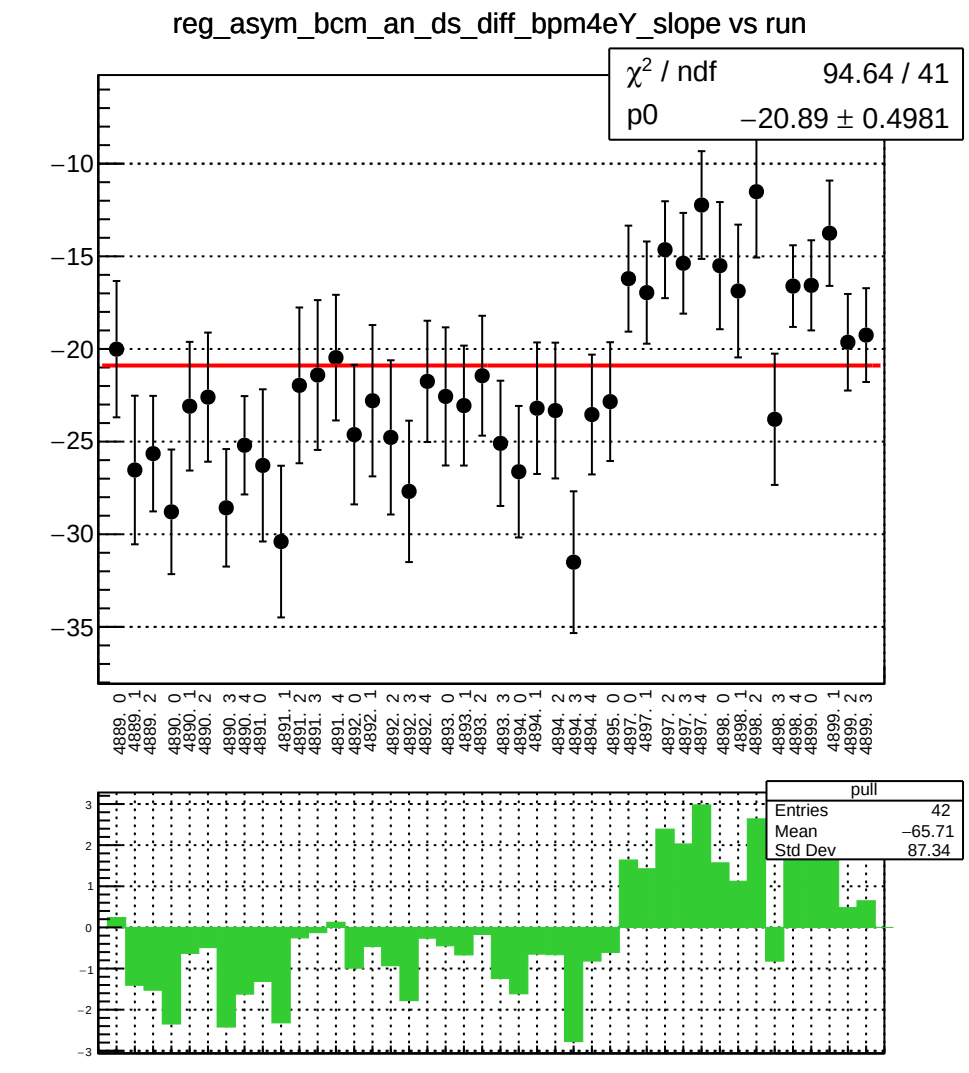

pull1D
Entries 42
Mean 0.0196
Std Dev 0.8756

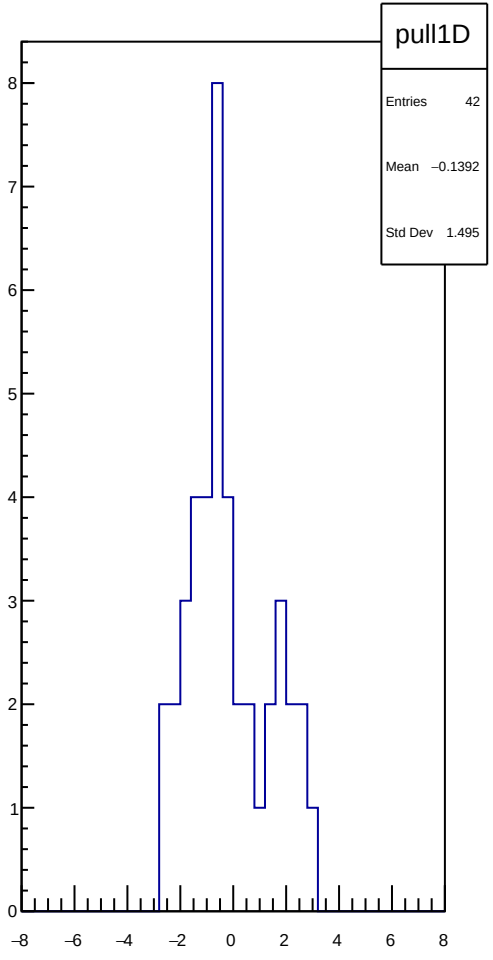

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 105.2 / 41
p0 18.26 ± 0.4482
pull
Entries 42
Mean −68.27
Std Dev 89.35

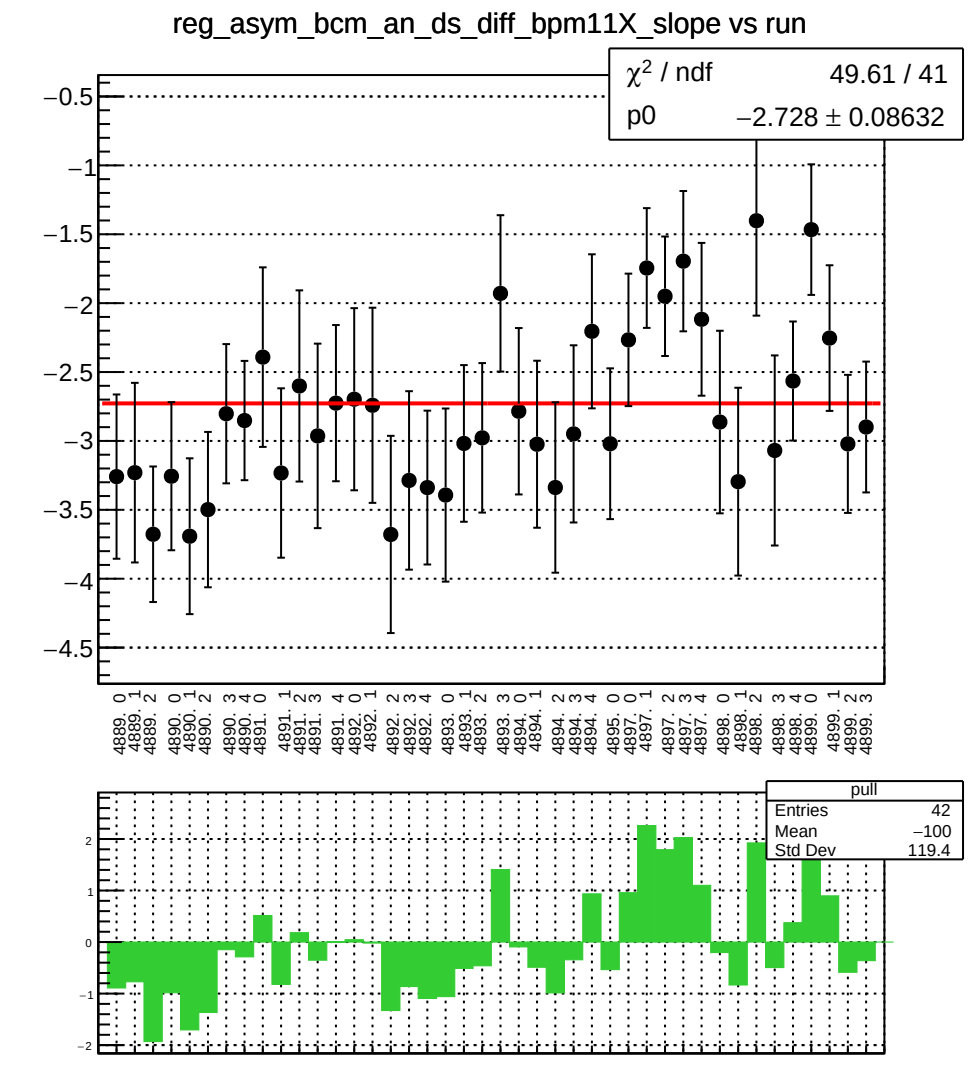

pull1D
Entries 42
Mean 0.1541
Std Dev 1.575

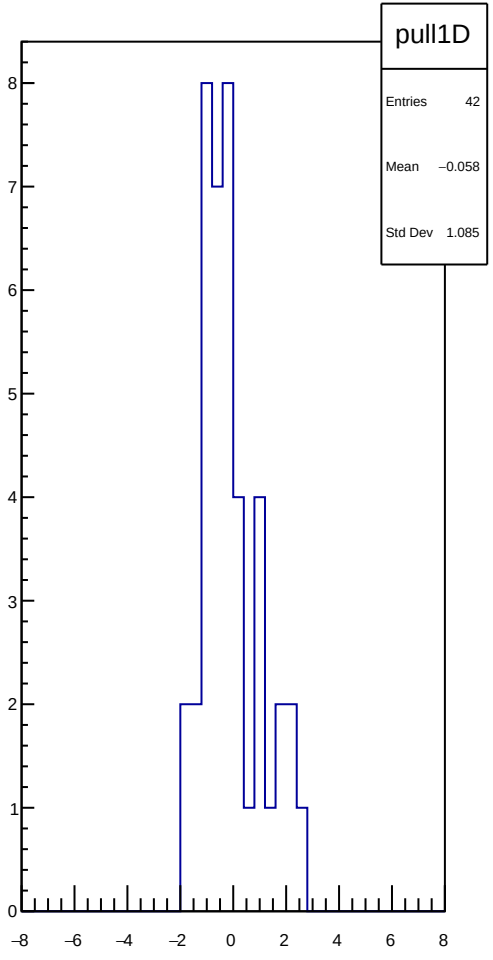

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 37.09 / 41
p0 −0.7267 ± 0.06229
pull
Entries 42
Mean −163.2
Std Dev 178.1

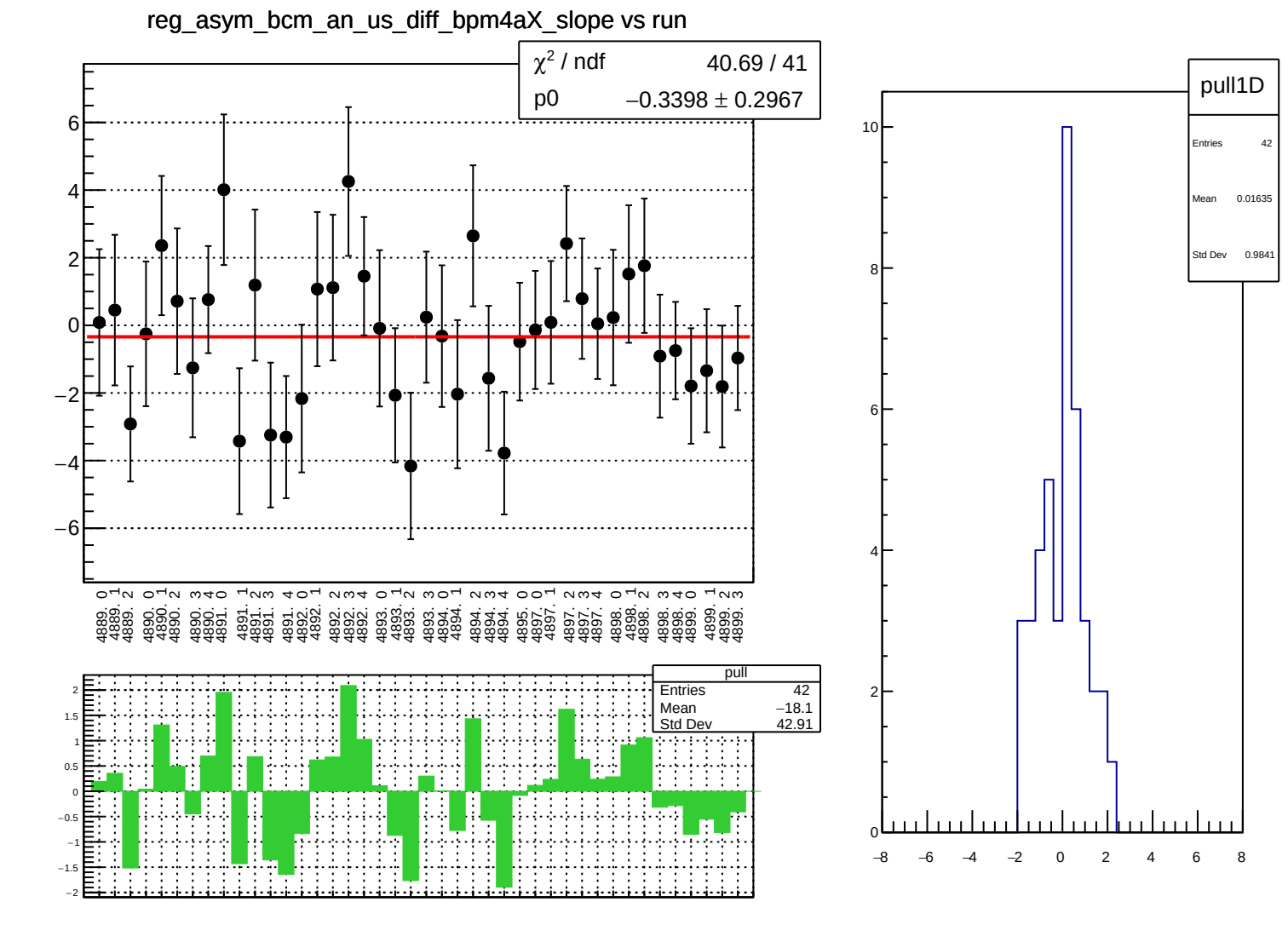

pull1D
Entries 42
Mean −0.01263
Std Dev 0.9396

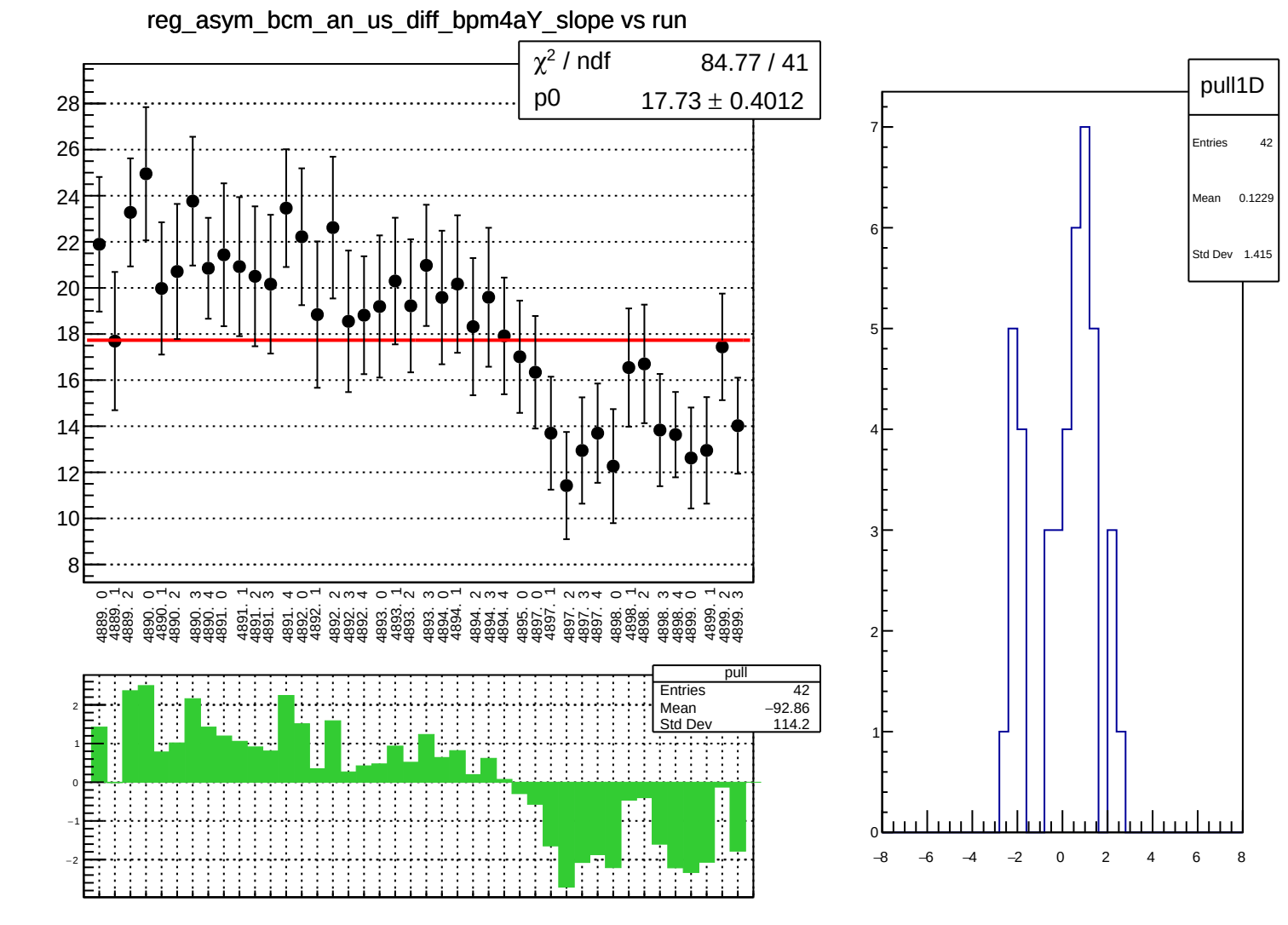

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 94.64 / 41
p0 −20.89 ± 0.4981
pull
Entries 42
Mean −65.71
Std Dev 87.34

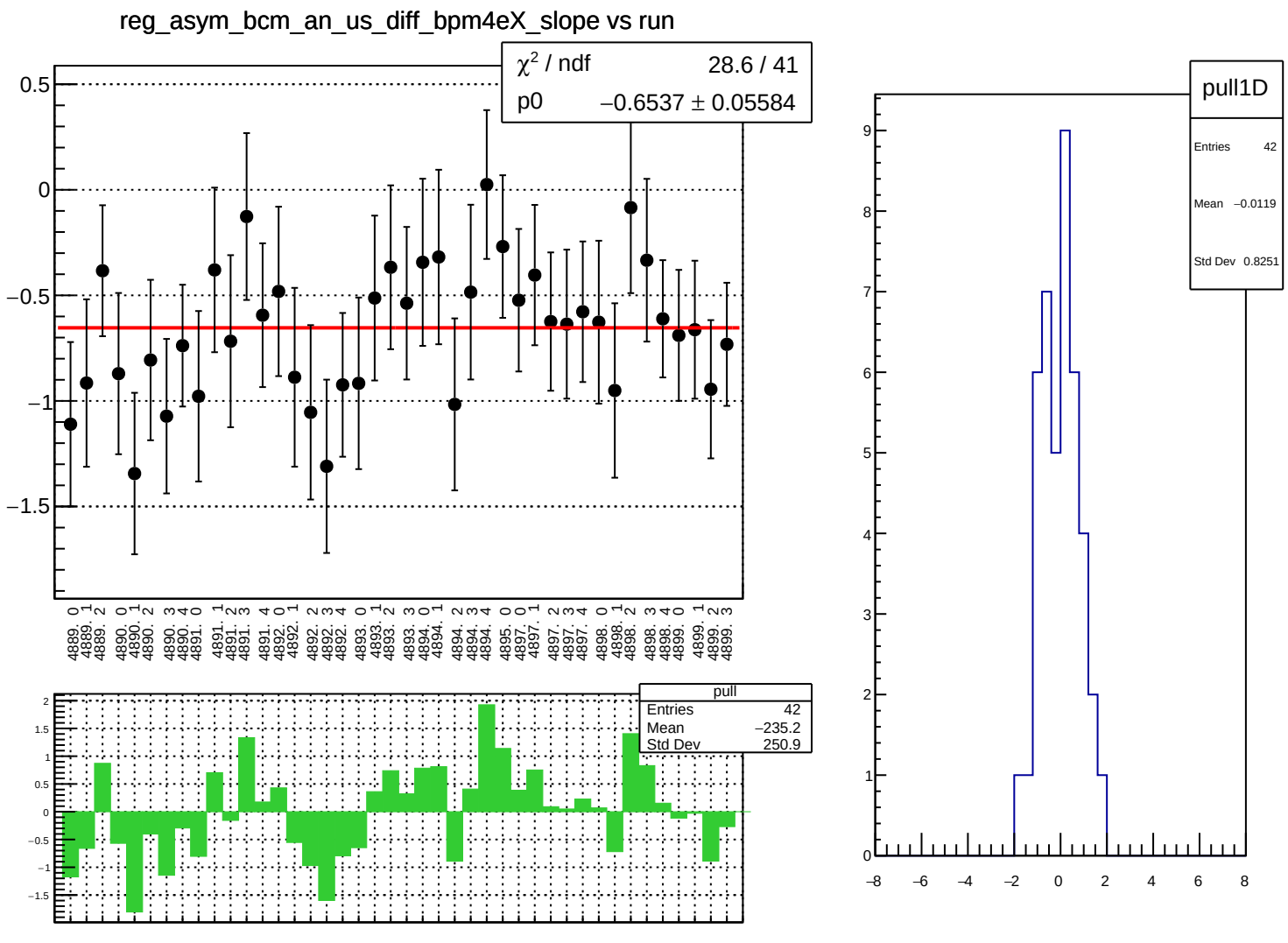

pull1D
Entries 42
Mean −0.1392
Std Dev 1.495

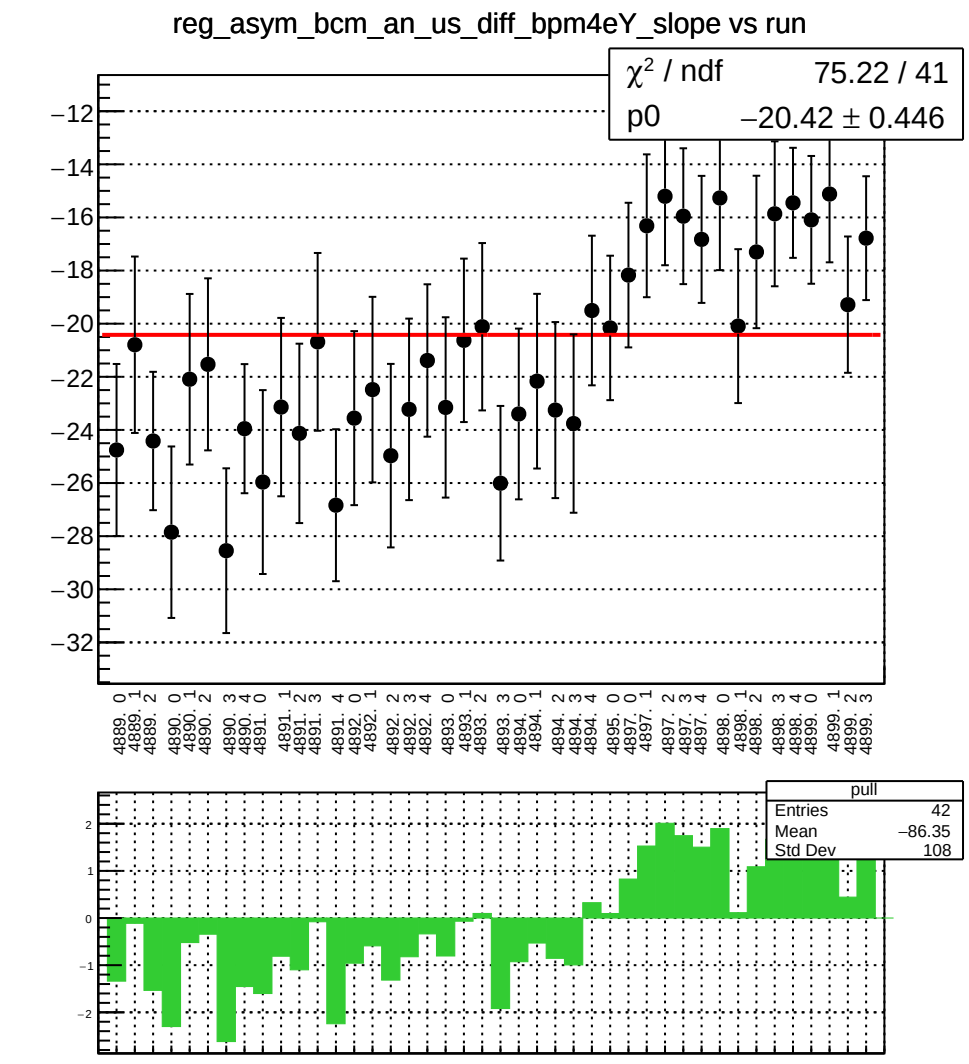

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 49.61 / 41
p0 −2.728 ± 0.08632
pull
Entries 42
Mean −100
Std Dev 119.4

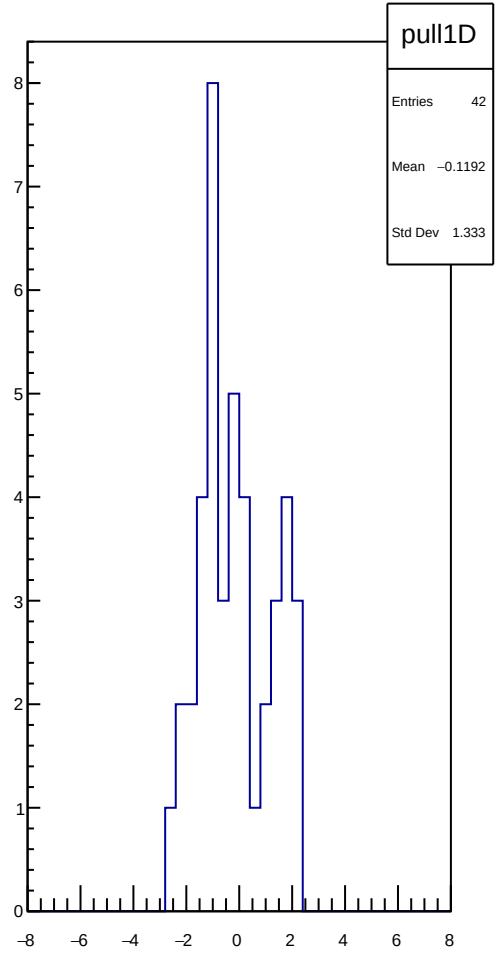

pull1D
Entries 42
Mean −0.058
Std Dev 1.085

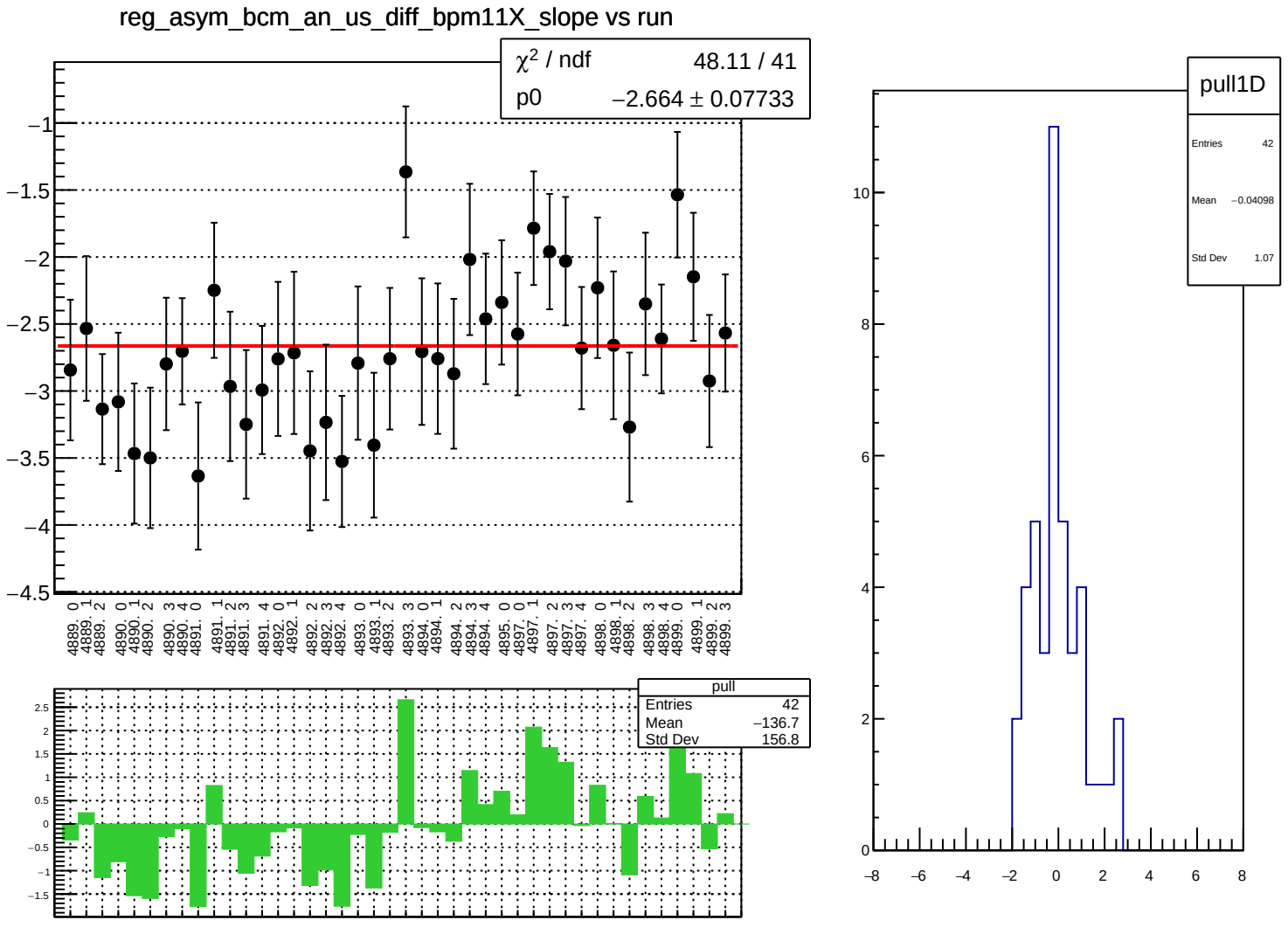

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 40.69 / 41
p0 −0.3398 ± 0.2967
pull
Entries 42
Mean −18.1
Std Dev 42.91
pull1D
Entries 42
Mean 0.01635
Std Dev 0.9841

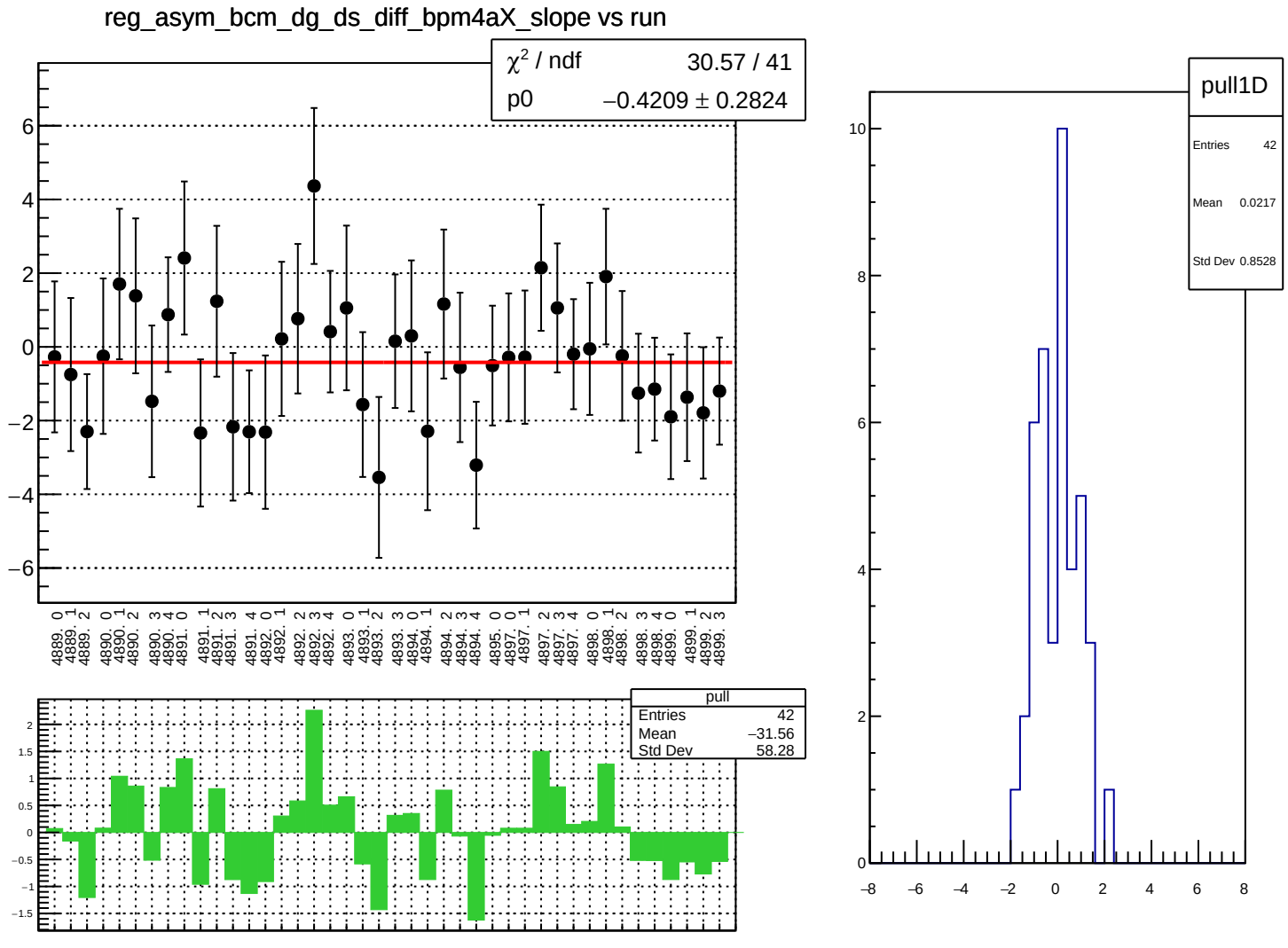

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 84.77 / 41
p0 17.73 ± 0.4012
pull
Entries 42
Mean −92.86
Std Dev 114.2
pull1D
Entries 42
Mean 0.1229
Std Dev 1.415

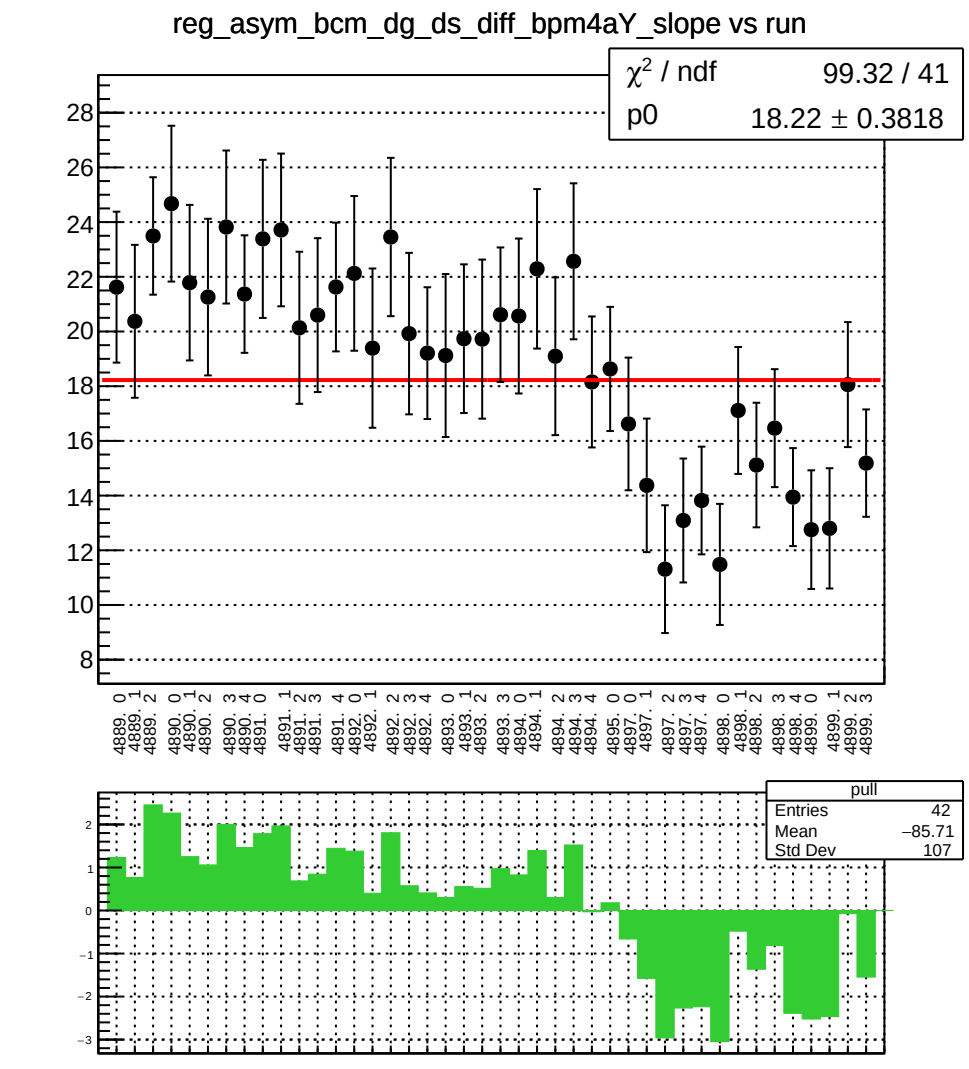

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 28.6 / 41
p0 −0.6537 ± 0.05584
0.5
0
−0.5
−1
−1.5
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean −235.2
Std Dev 250.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.0119
Std Dev 0.8251
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

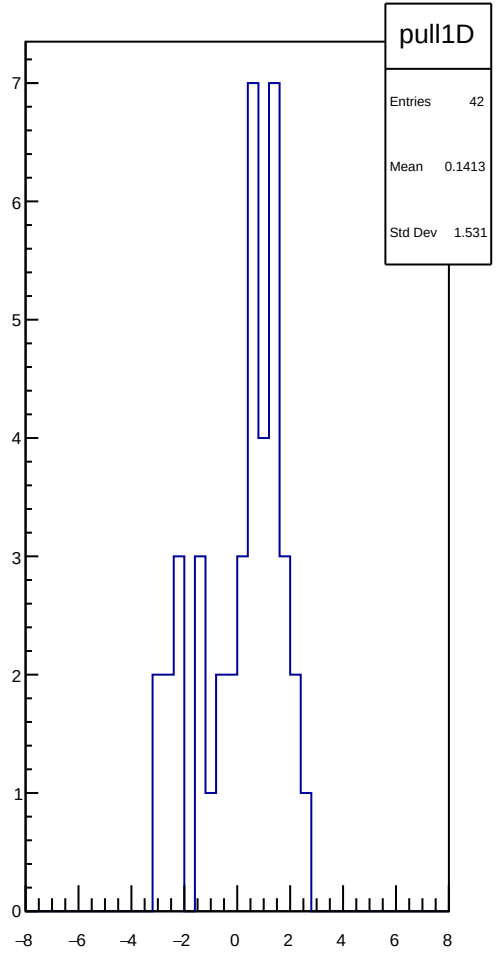

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 75.22 / 41
p0 −20.42 ± 0.446
pull
Entries 42
Mean −86.35
Std Dev 108

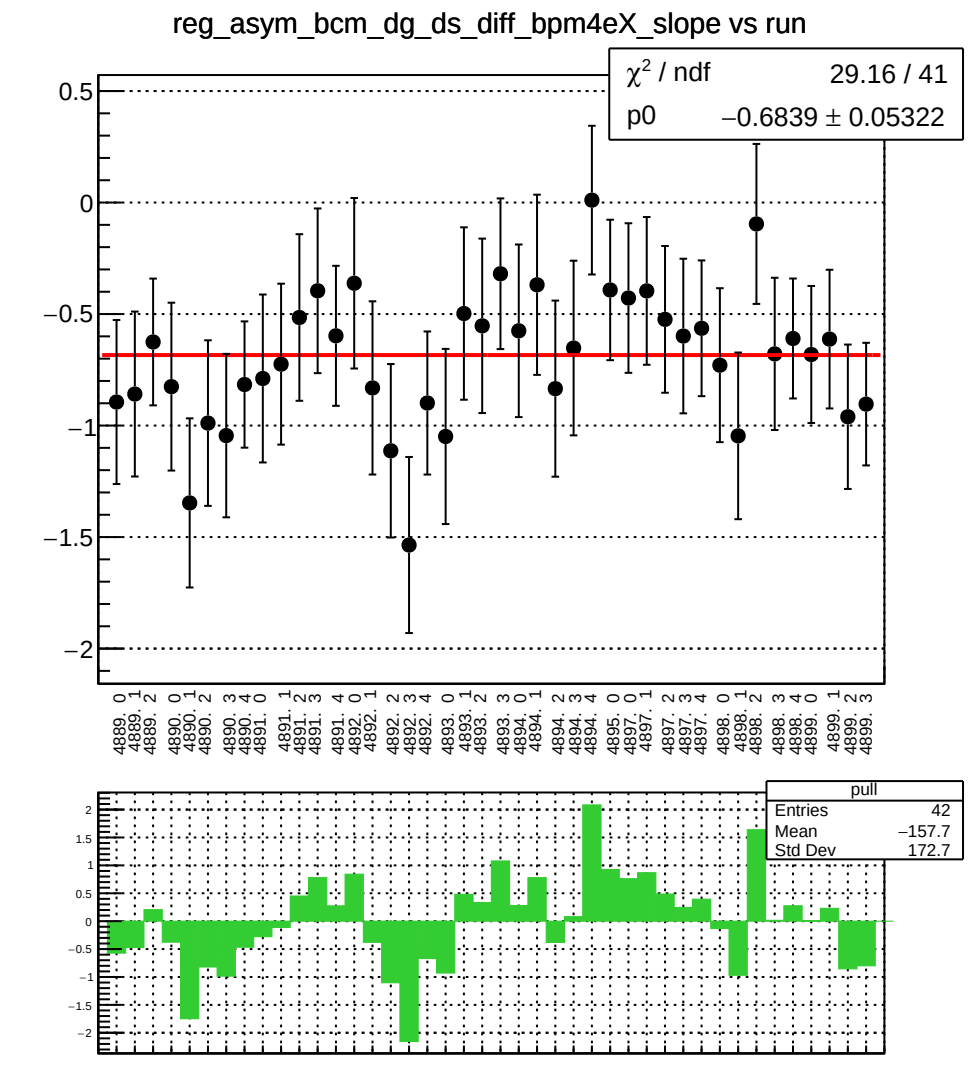

pull1D
Entries 42
Mean −0.1192
Std Dev 1.333

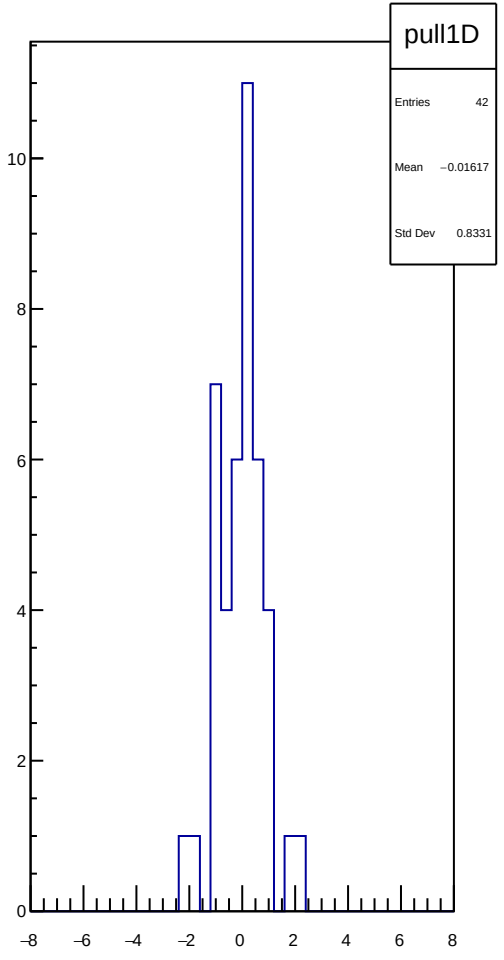

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 48.11 / 41
p0 −2.664 ± 0.07733
pull
Entries 42
Mean −136.7
Std Dev 156.8
pull1D
Entries 42
Mean −0.04098
Std Dev 1.07

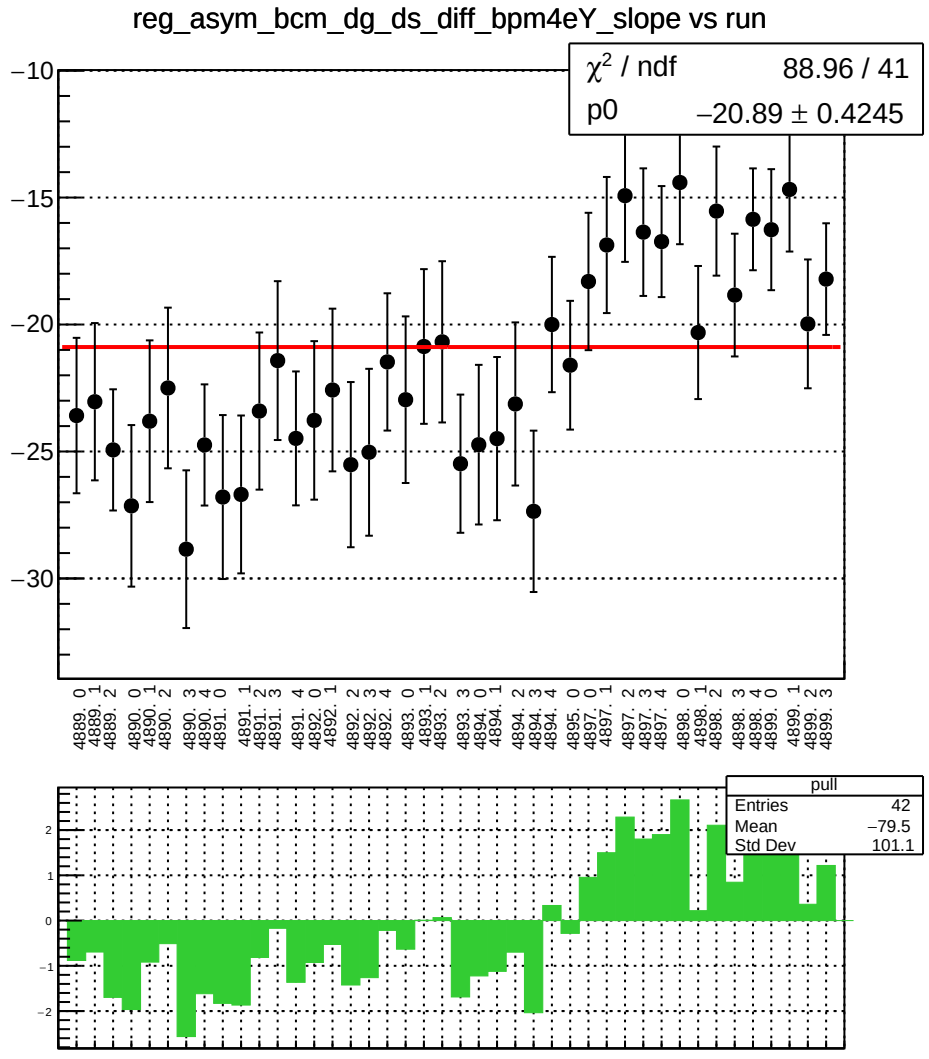

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 30.57 / 41
p0 −0.4209 ± 0.2824
pull
Entries 42
Mean −31.56
Std Dev 58.28
pull1D
Entries 42
Mean 0.0217
Std Dev 0.8528

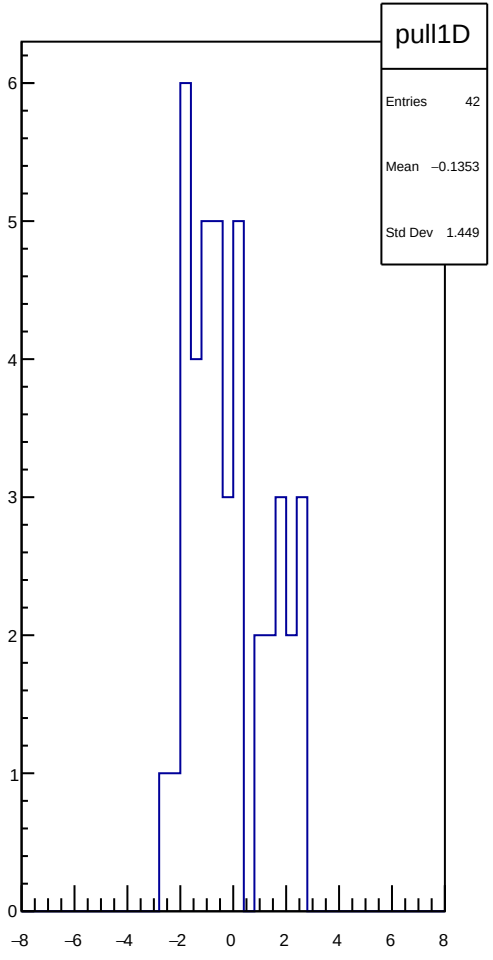

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 99.32 / 41
p0 18.22 ± 0.3818
pull
Entries 42
Mean −85.71
Std Dev 107

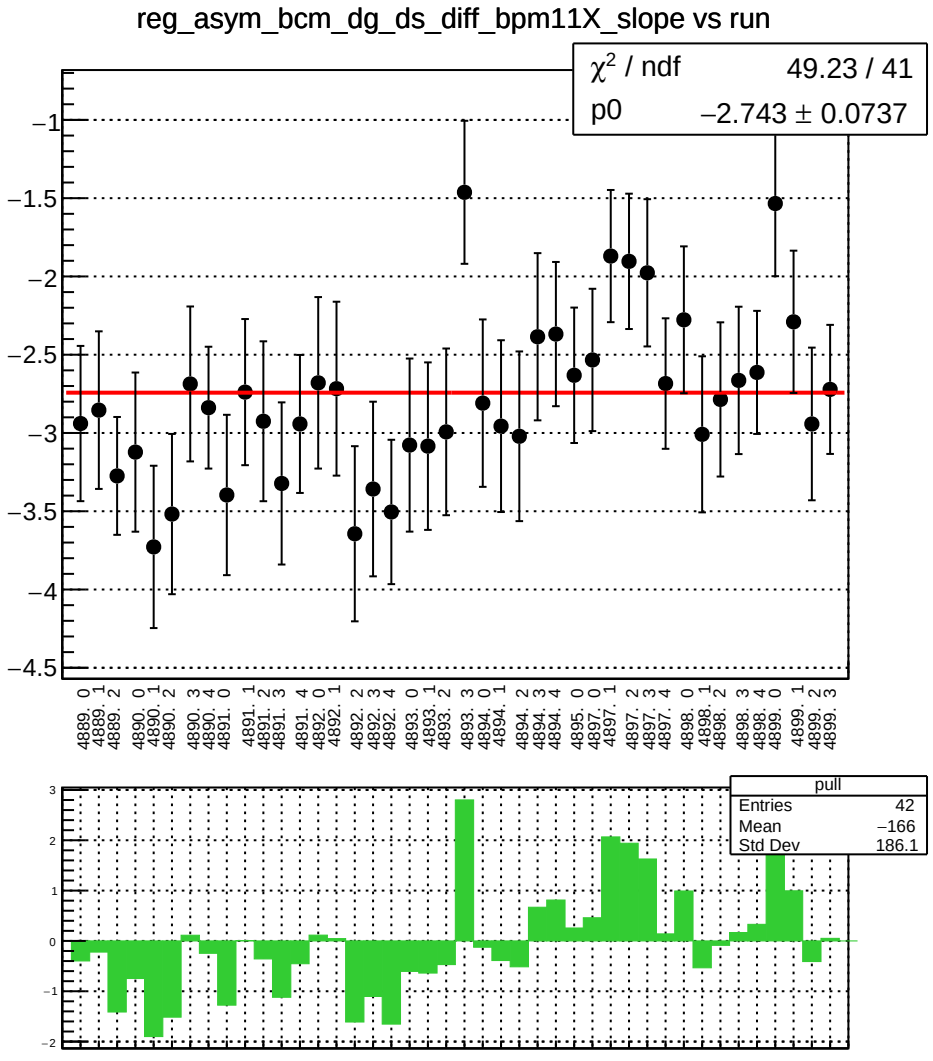

pull1D
Entries 42
Mean 0.1413
Std Dev 1.531

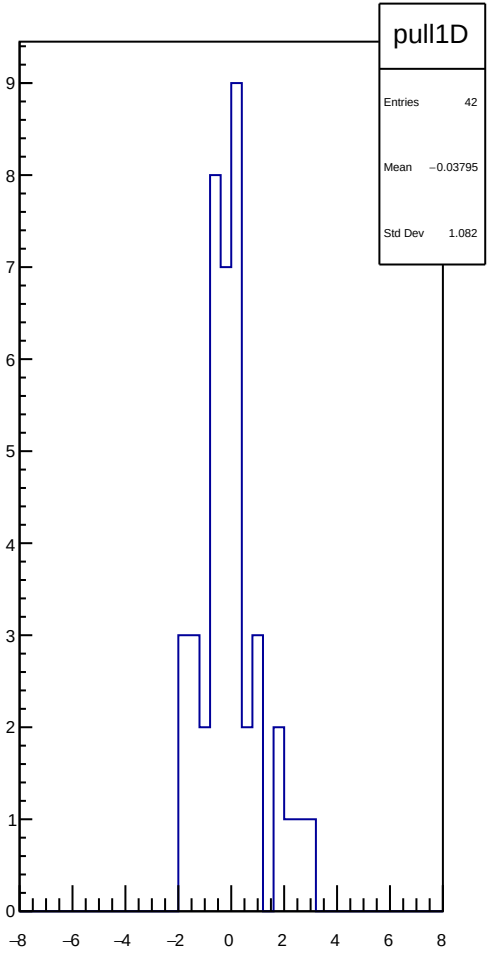

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 29.16 / 41
p0 −0.6839 ± 0.05322
pull
Entries 42
Mean −157.7
Std Dev 172.7

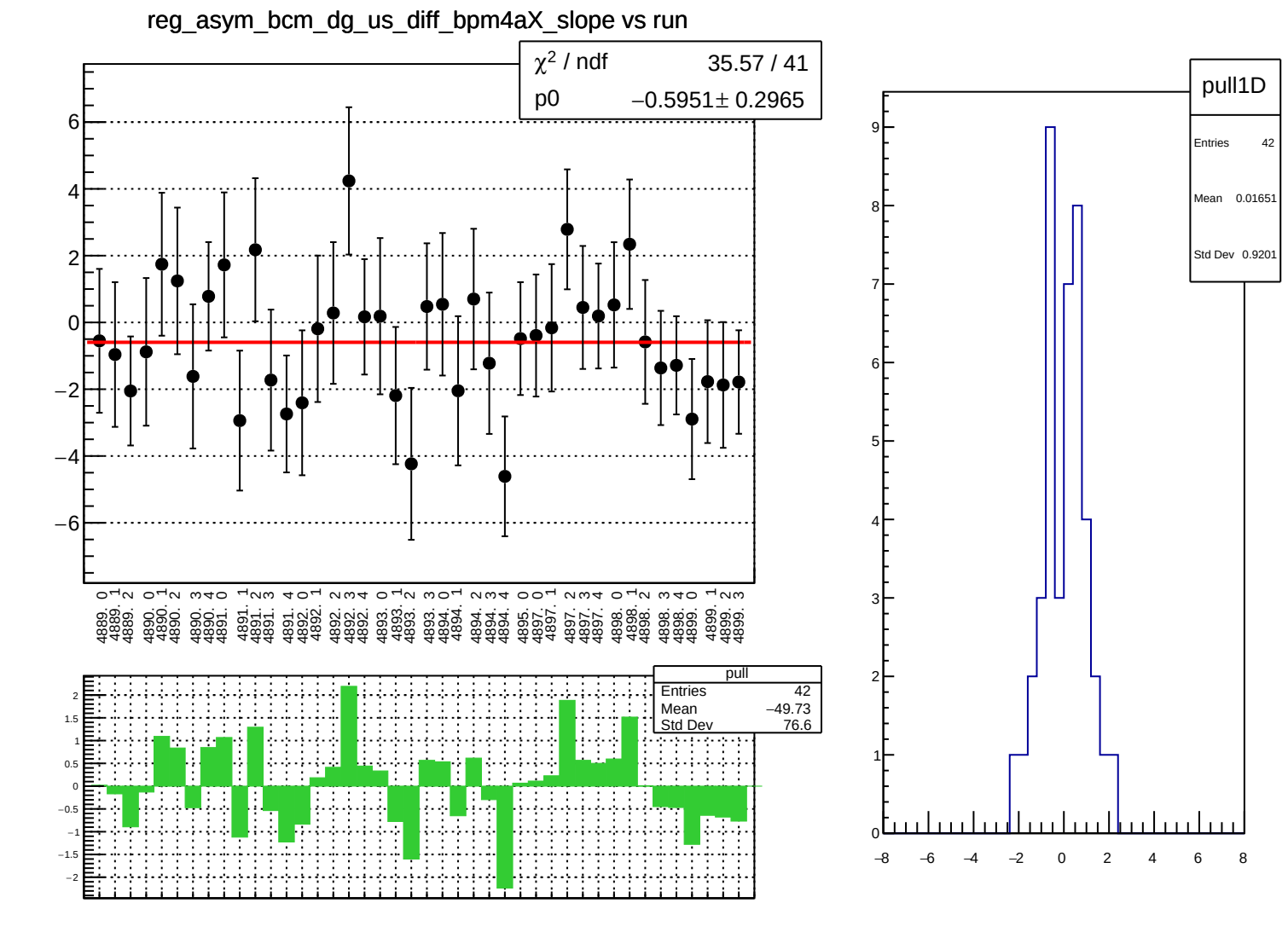

pull1D
Entries 42
Mean −0.01617
Std Dev 0.8331

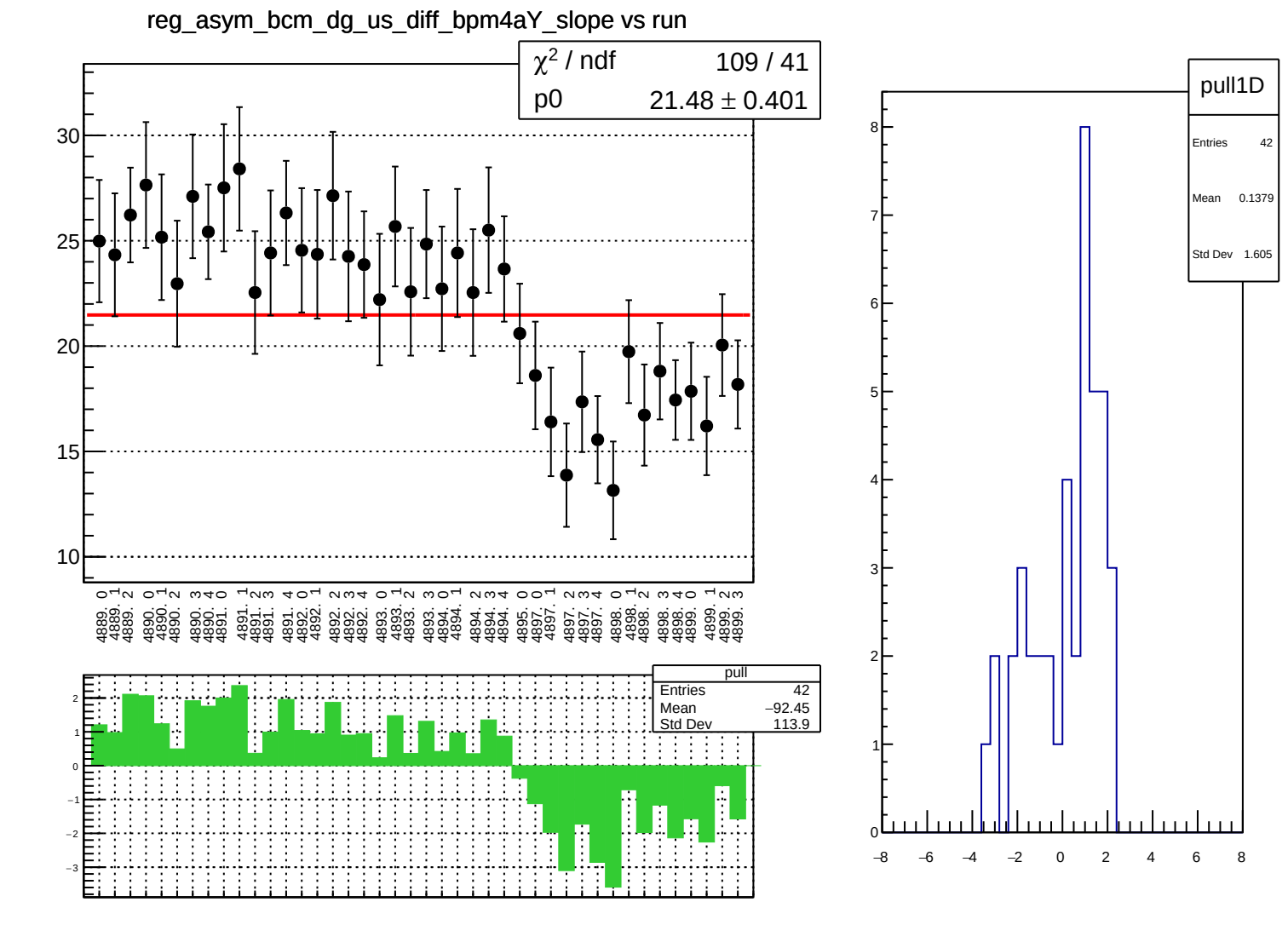

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 88.96 / 41
p0 −20.89 ± 0.4245
pull
Entries 42
Mean −79.5
Std Dev 101.1

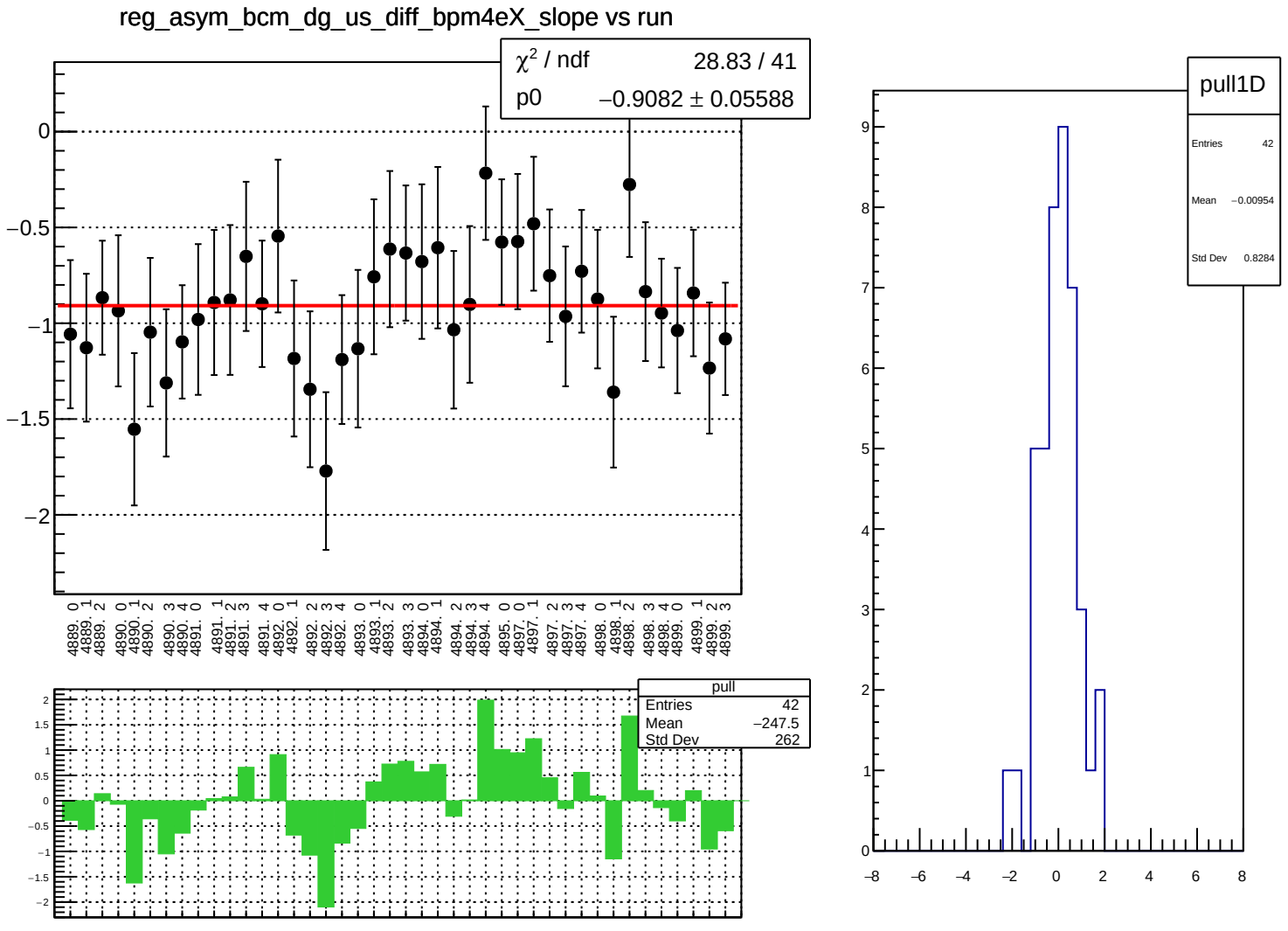

pull1D
Entries 42
Mean −0.1353
Std Dev 1.449

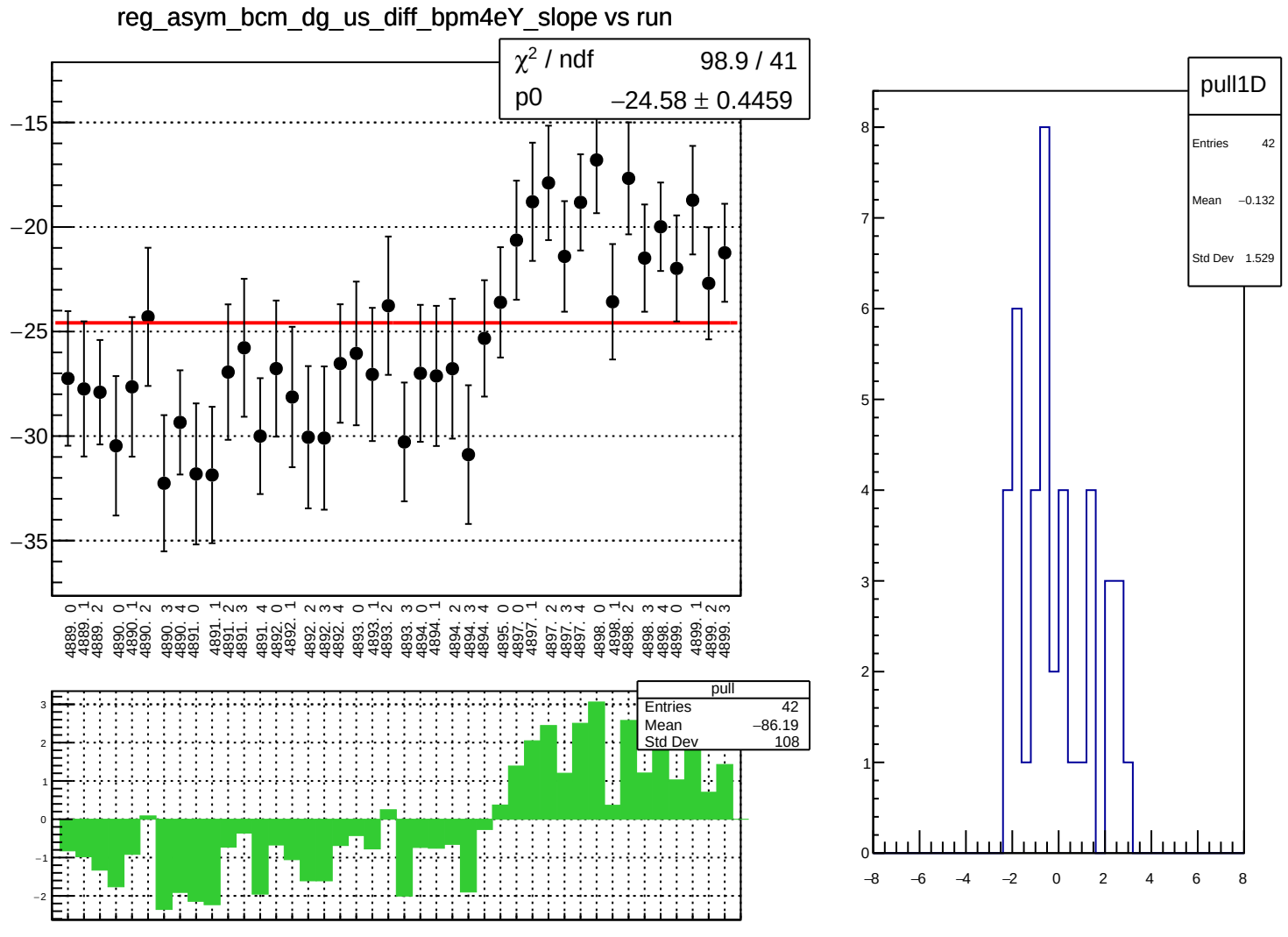

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 49.23 / 41
p0 −2.743 ± 0.0737
pull
Entries 42
Mean −166
Std Dev 186.1

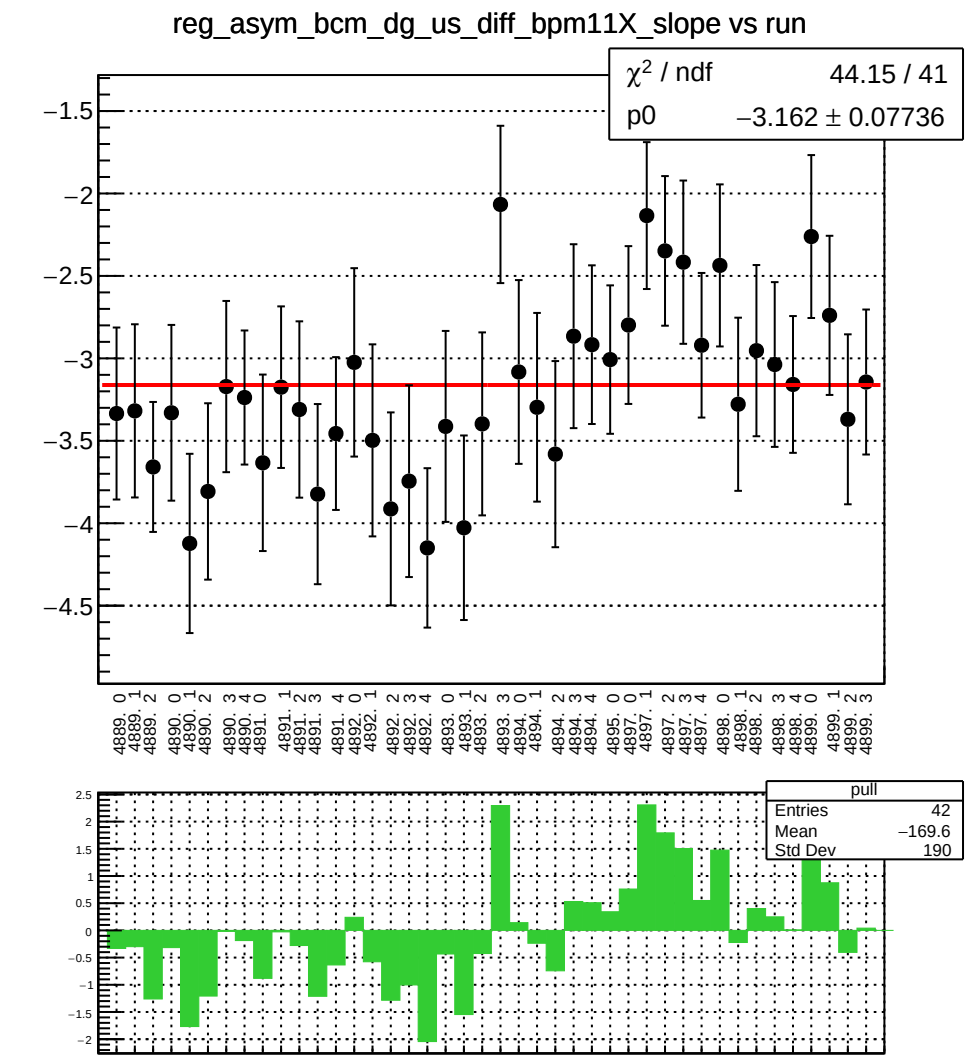

pull1D
Entries 42
Mean −0.03795
Std Dev 1.082

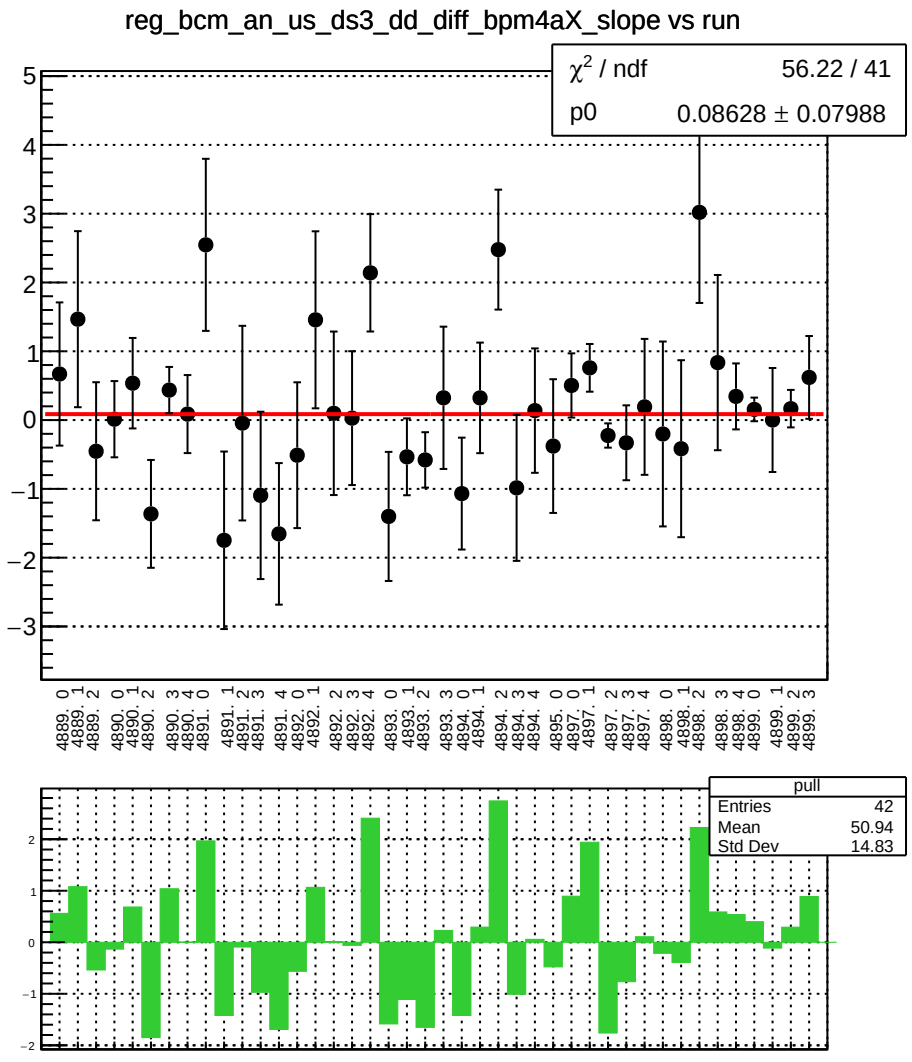

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 35.57 / 41
p0 −0.5951± 0.2965
pull
Entries 42
Mean −49.73
Std Dev 76.6
pull1D
Entries 42
Mean 0.01651
Std Dev 0.9201

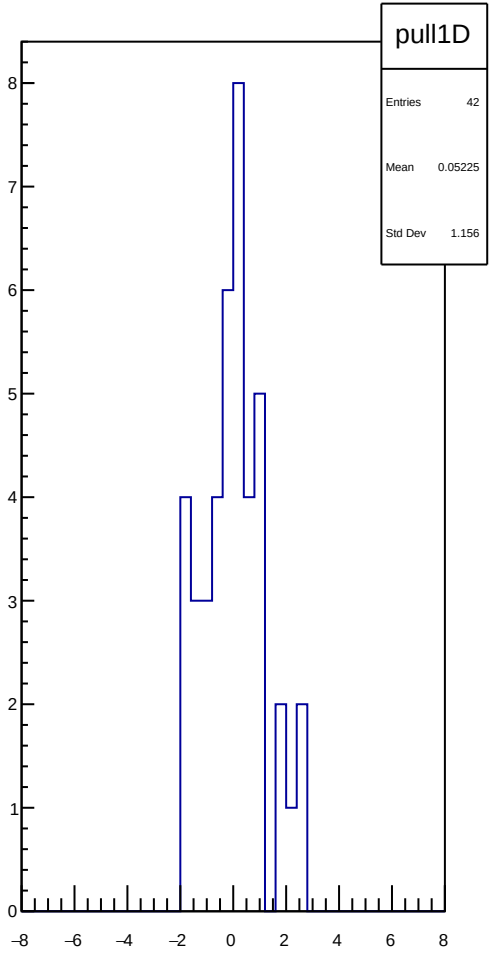

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 109 / 41
p0 21.48 ± 0.401
pull
Entries 42
Mean −92.45
Std Dev 113.9
pull1D
Entries 42
Mean 0.1379
Std Dev 1.605

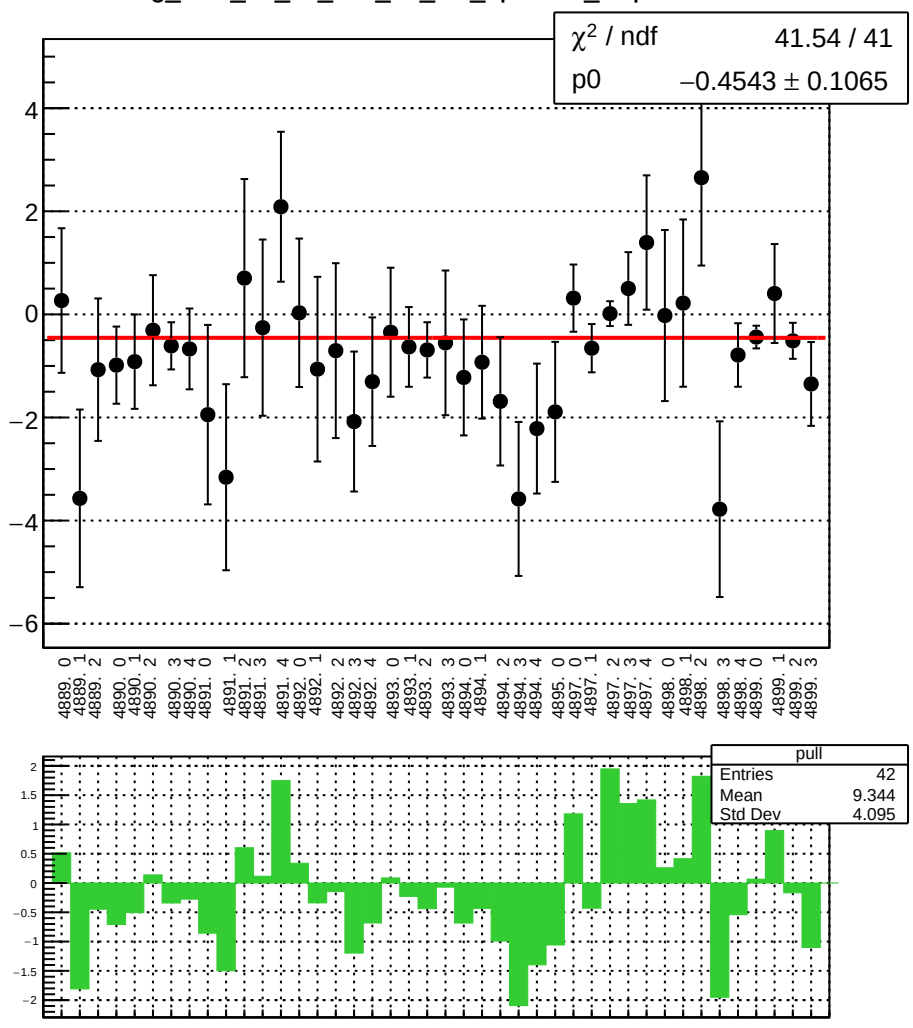

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 28.83 / 41
p0 −0.9082 ± 0.05588
pull
Entries 42
Mean −247.5
Std Dev 262
pull1D
Entries 42
Mean −0.00954
Std Dev 0.8284

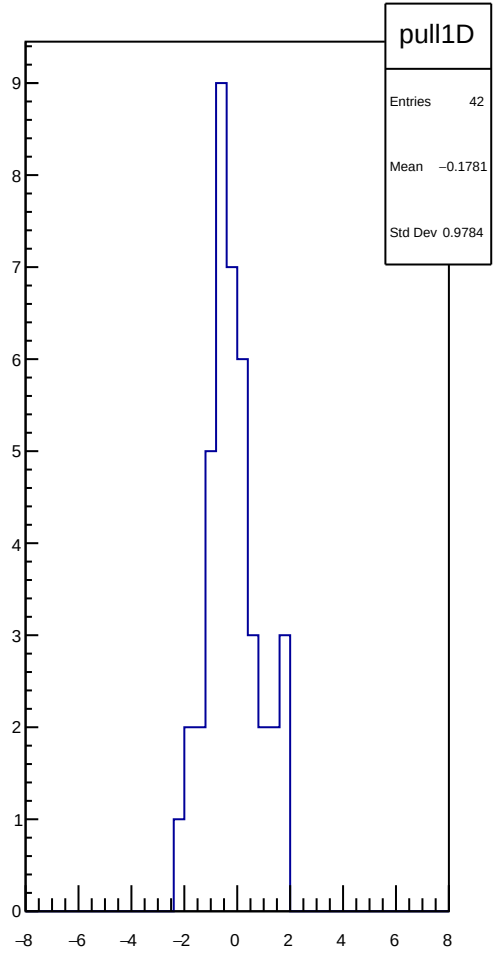

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 98.9 / 41
p0 −24.58 ± 0.4459
pull
Entries 42
Mean −86.19
Std Dev 108
pull1D
Entries 42
Mean −0.132
Std Dev 1.529

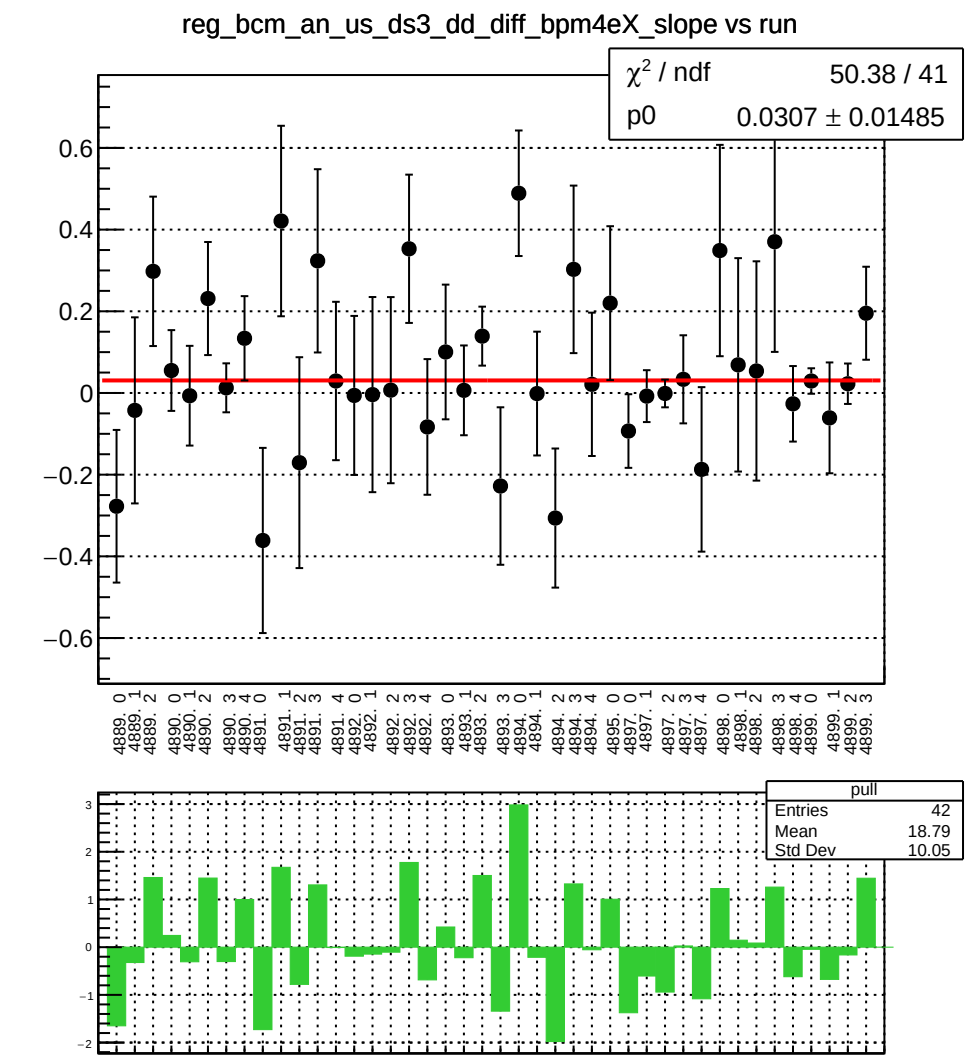

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 44.15 / 41
p0 −3.162 ± 0.07736
pull
Entries 42
Mean −169.6
Std Dev 190
pull1D
Entries 42
Mean −0.03547
Std Dev 1.025

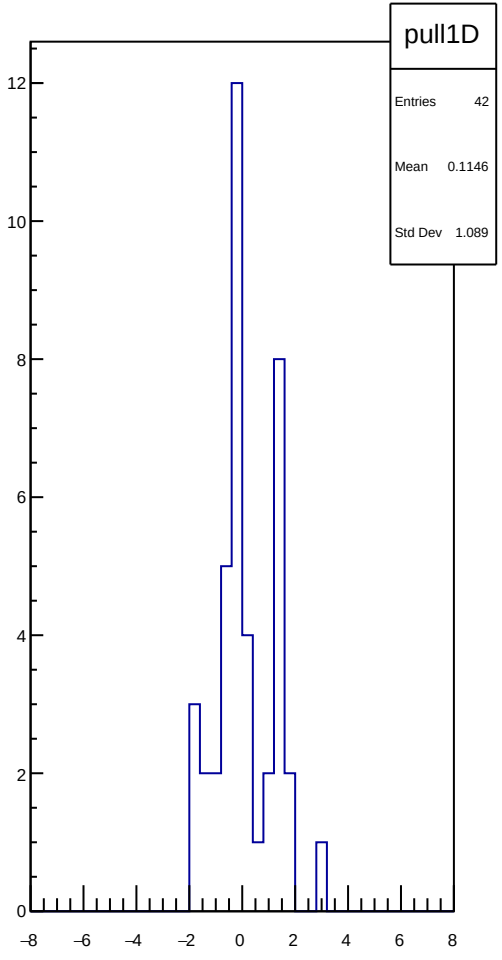

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.22 / 41
p0 0.08628 ± 0.07988
pull
Entries 42
Mean 50.94
Std Dev 14.83

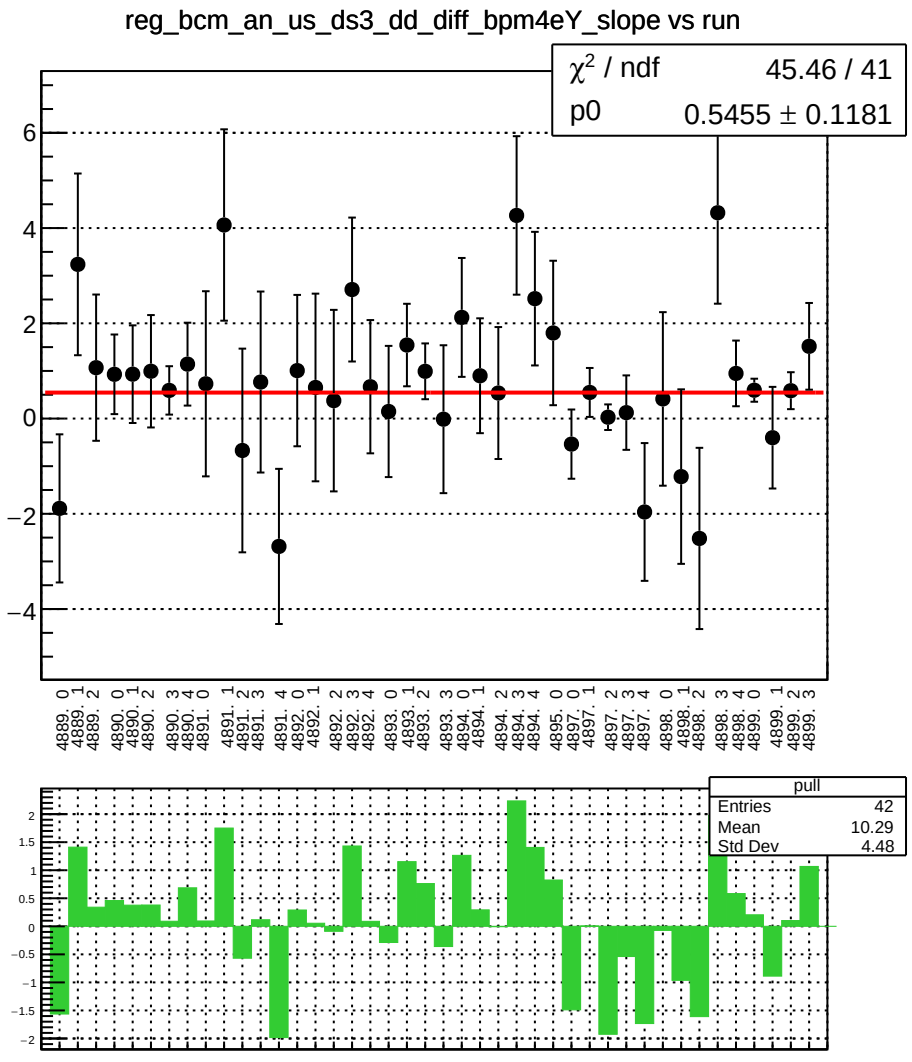

pull1D
Entries 42
Mean 0.05225
Std Dev 1.156

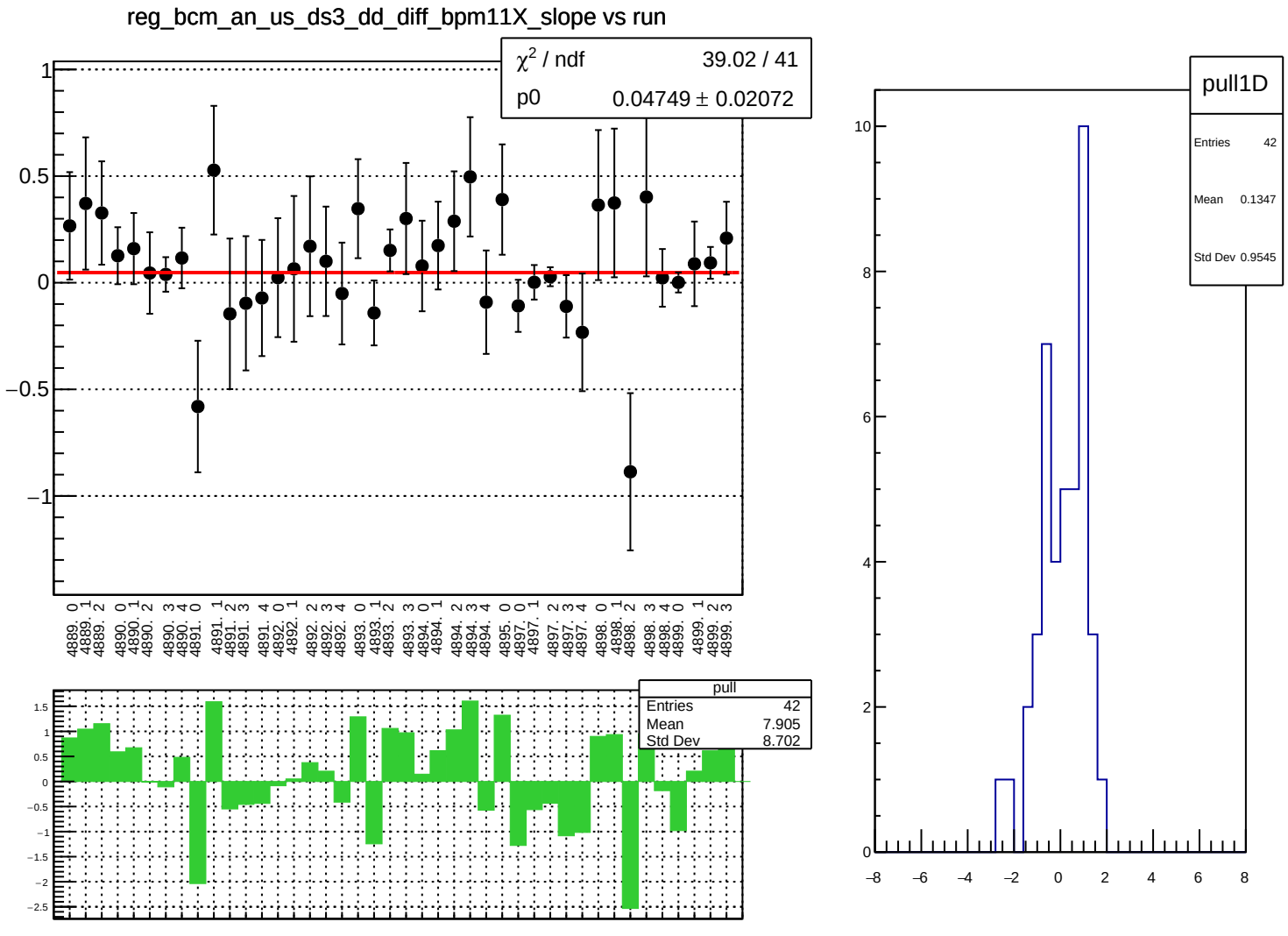

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.54 / 41
p0 −0.4543 ± 0.1065
pull
Entries 42
Mean 9.344
Std Dev 4.095

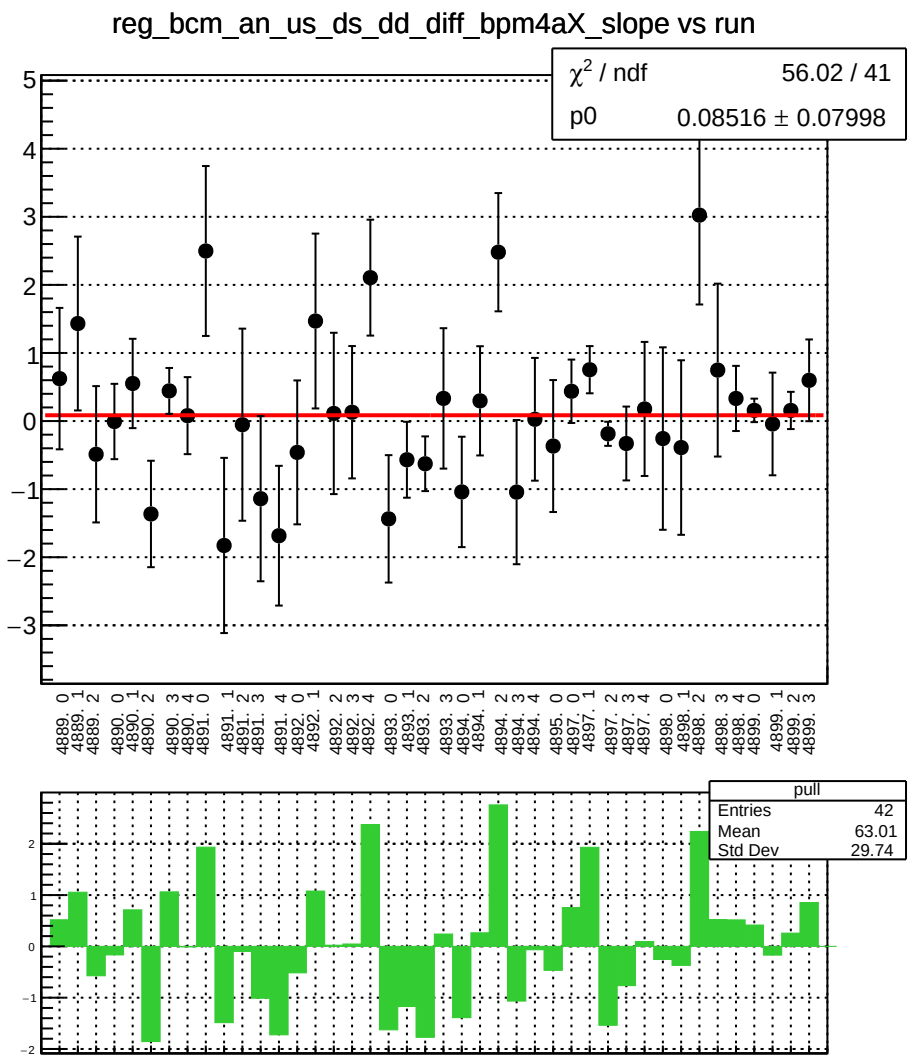

pull1D
Entries 42
Mean −0.1781
Std Dev 0.9784

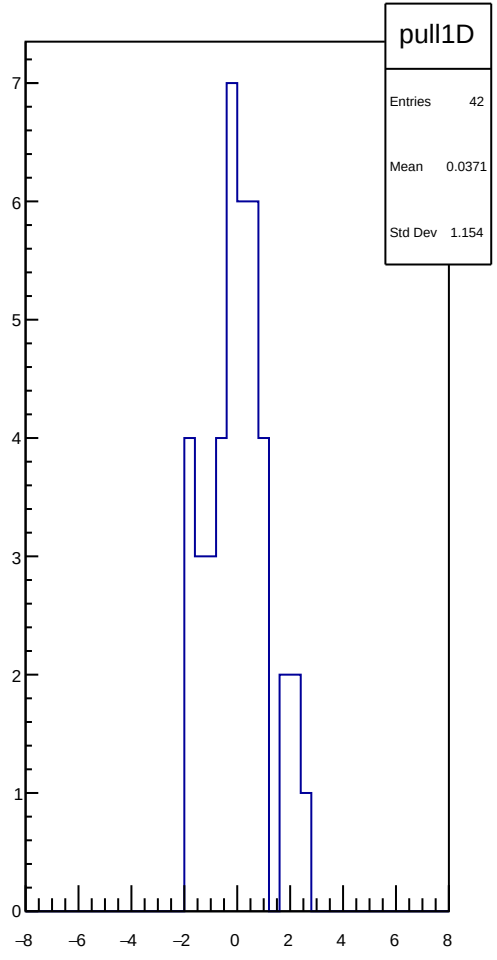

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.38 / 41
p0 0.0307 ± 0.01485
pull
Entries 42
Mean 18.79
Std Dev 10.05

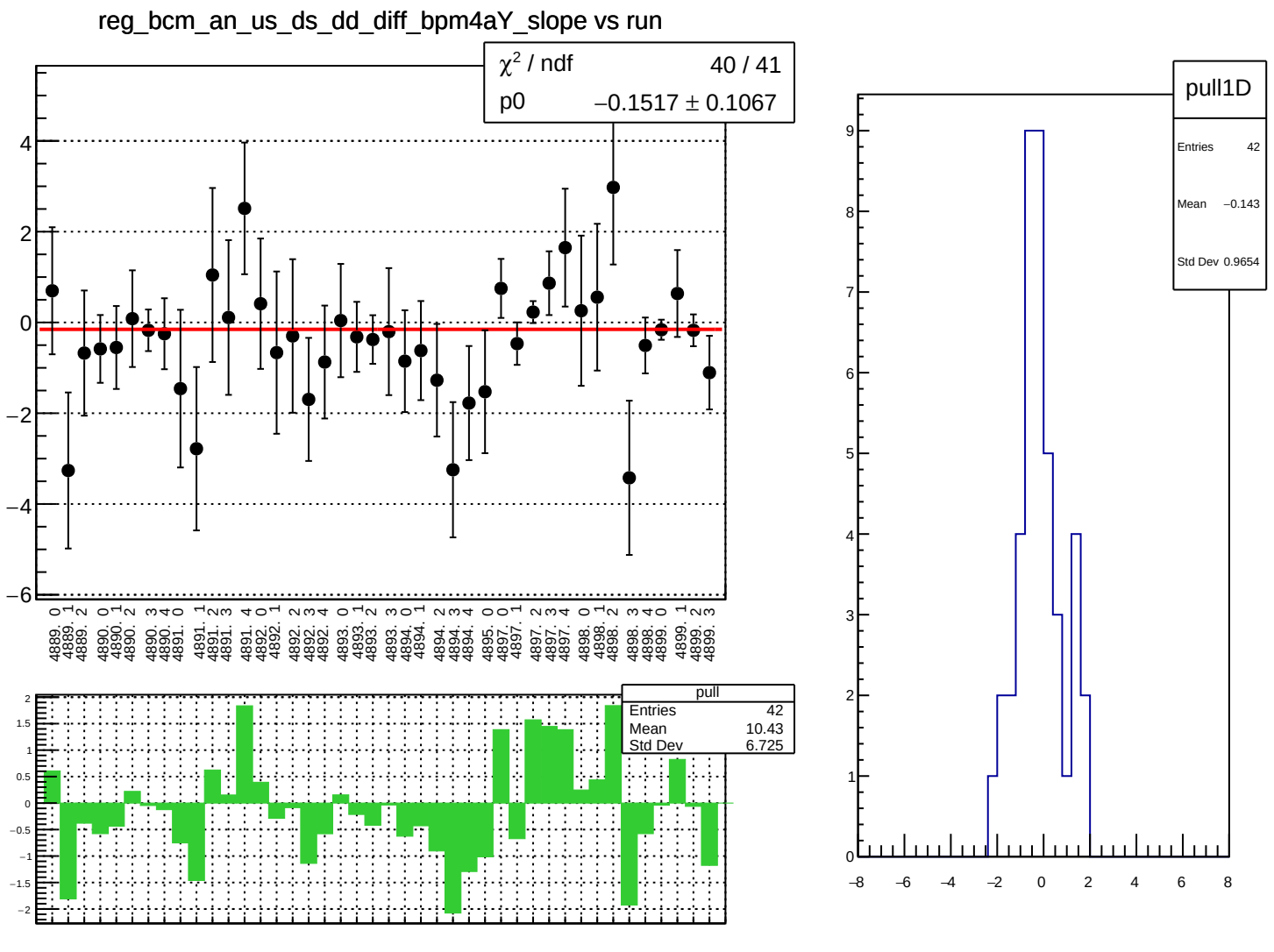

pull1D
Entries 42
Mean 0.1146
Std Dev 1.089

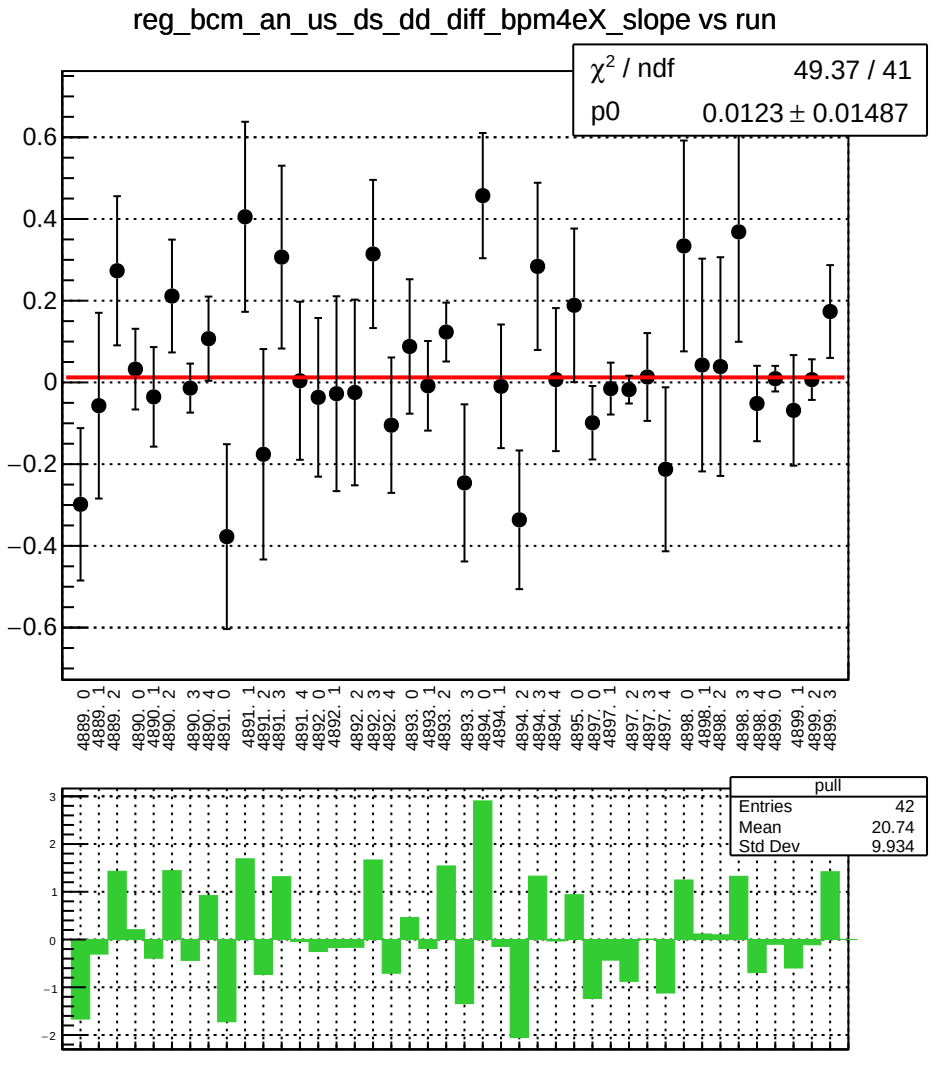

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.46 / 41
p0 0.5455 ± 0.1181
pull
Entries 42
Mean 10.29
Std Dev 4.48
pull1D
Entries 42
Mean 0.128
Std Dev 1.032

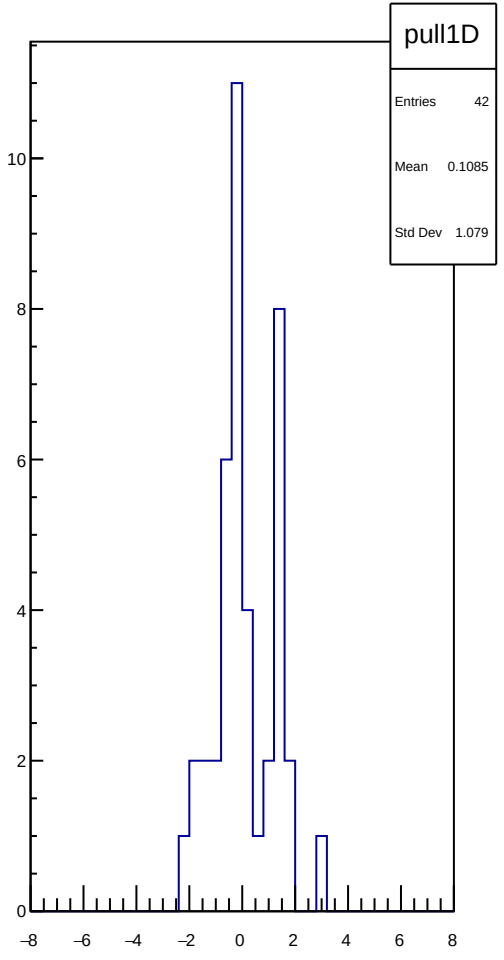

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 39.02 / 41
p0 0.04749 ± 0.02072
pull
Entries 42
Mean 7.905
Std Dev 8.702
pull1D
Entries 42
Mean 0.1347
Std Dev 0.9545

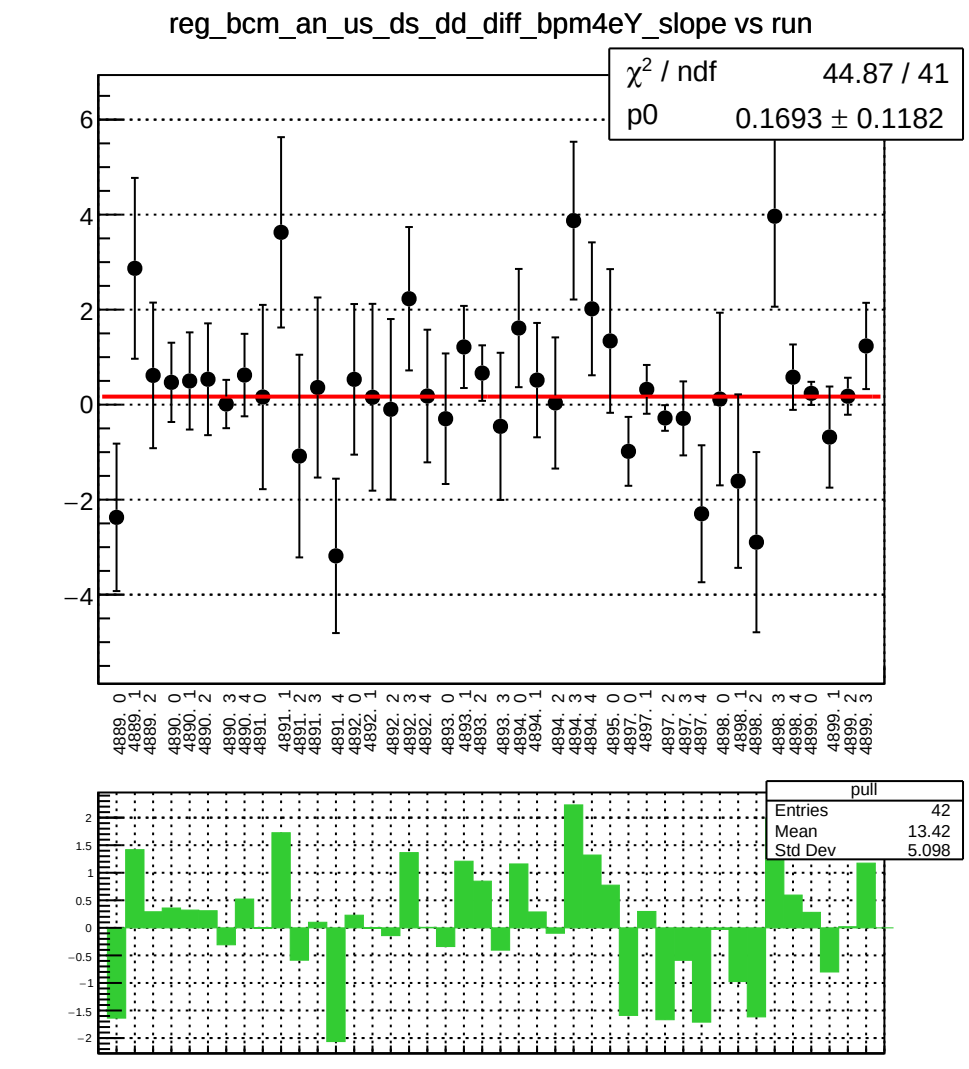

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.02 / 41
p0 0.08516 ± 0.07998
pull
Entries 42
Mean 63.01
Std Dev 29.74

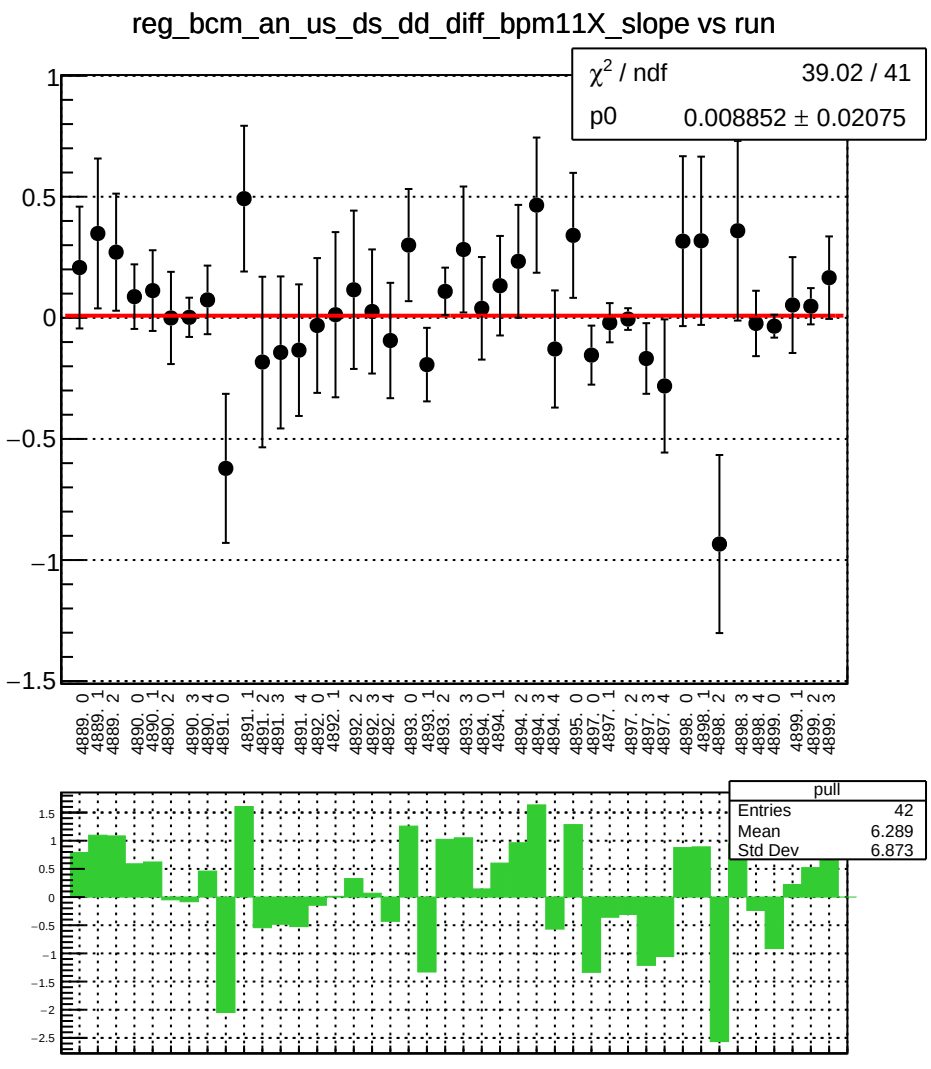

pull1D
Entries 42
Mean 0.0371
Std Dev 1.154

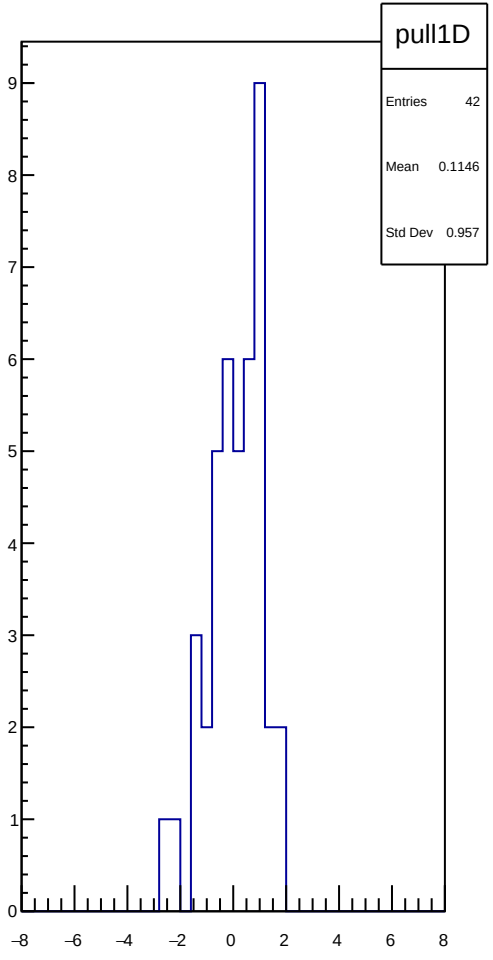

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 40 / 41
p0 −0.1517 ± 0.1067
pull
Entries 42
Mean 10.43
Std Dev 6.725
pull1D
Entries 42
Mean −0.143
Std Dev 0.9654

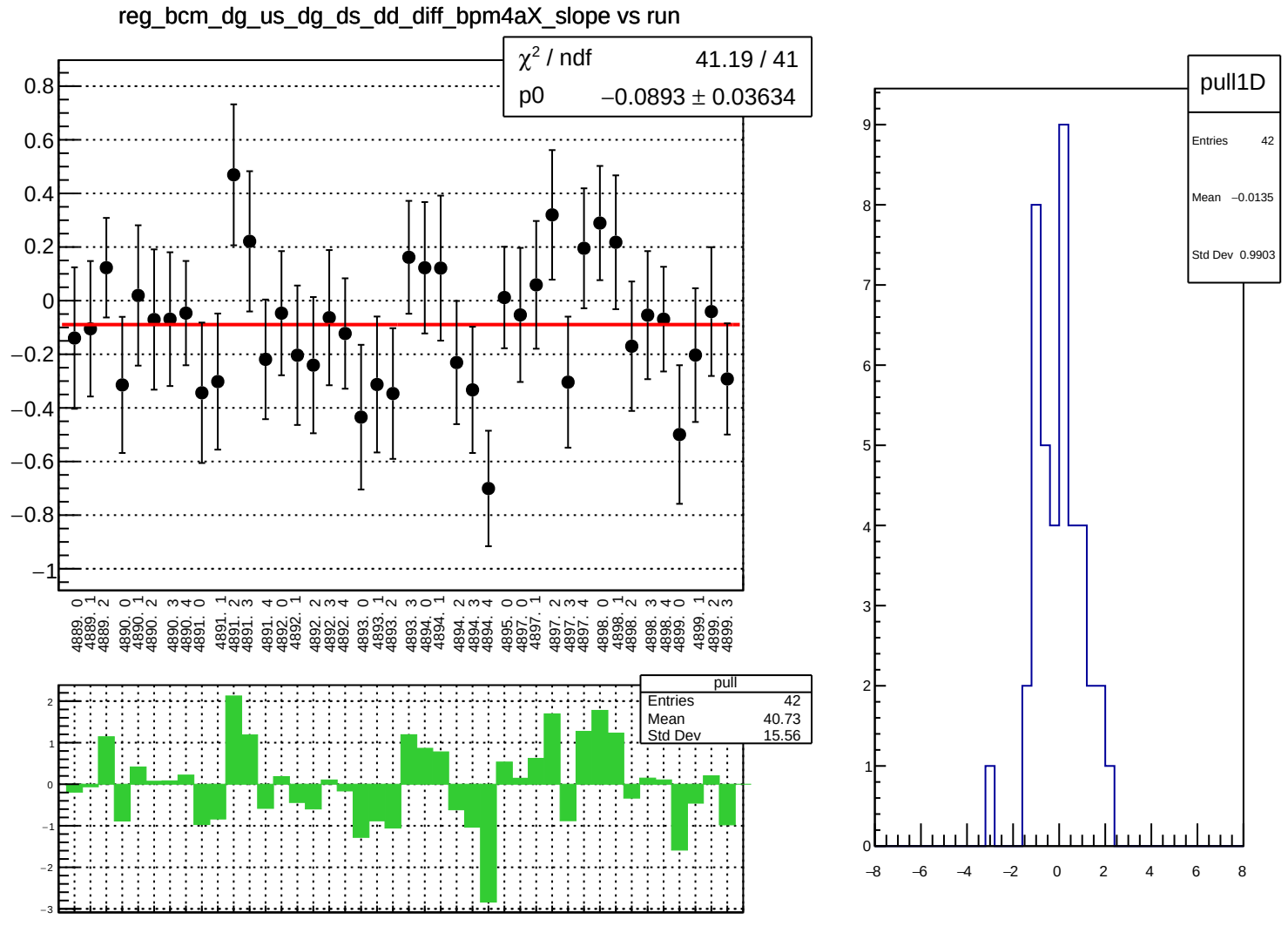

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.37 / 41
p0 0.0123 ± 0.01487
pull
Entries 42
Mean 20.74
Std Dev 9.934

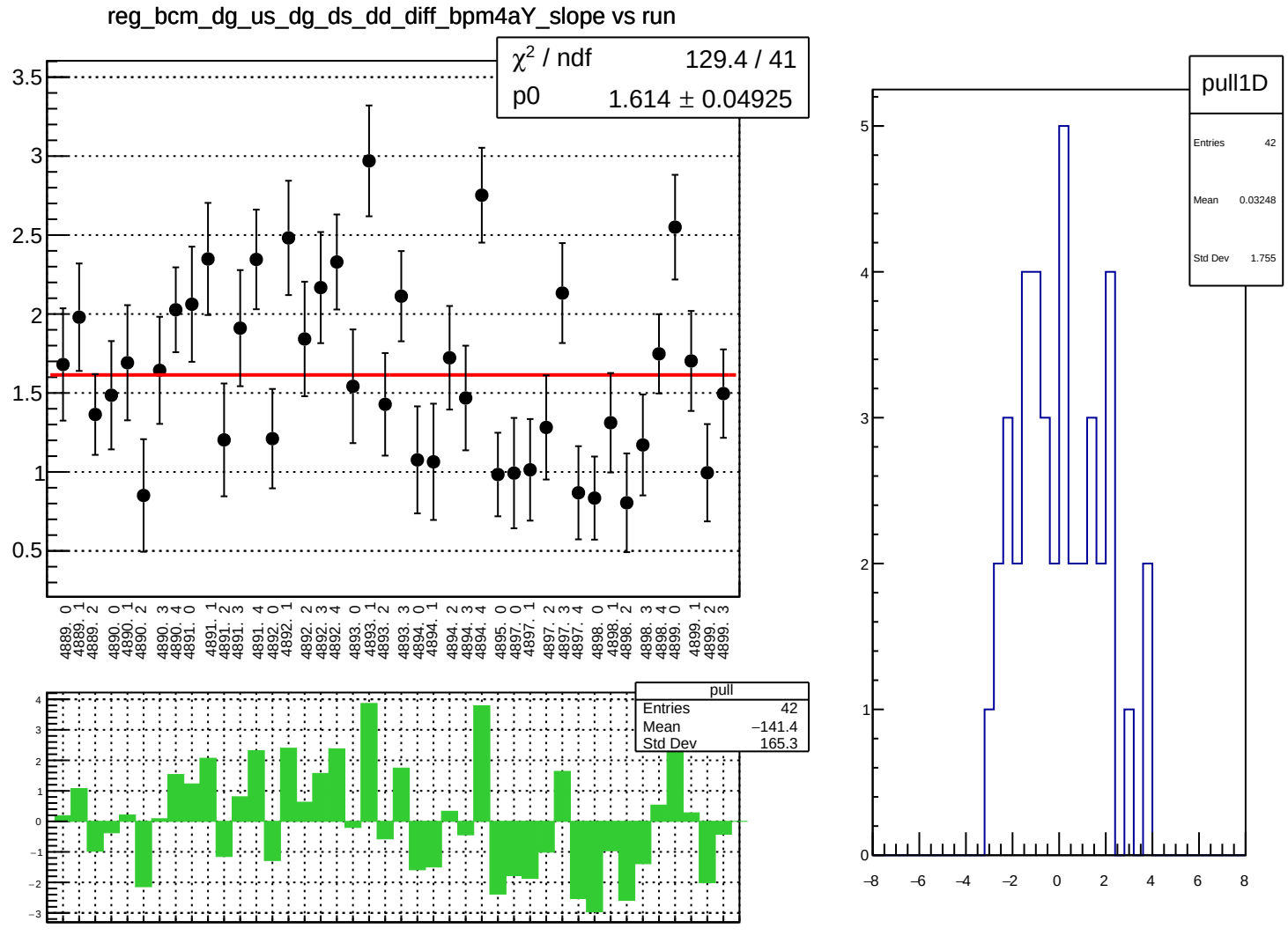

pull1D
Entries 42
Mean 0.1085
Std Dev 1.079

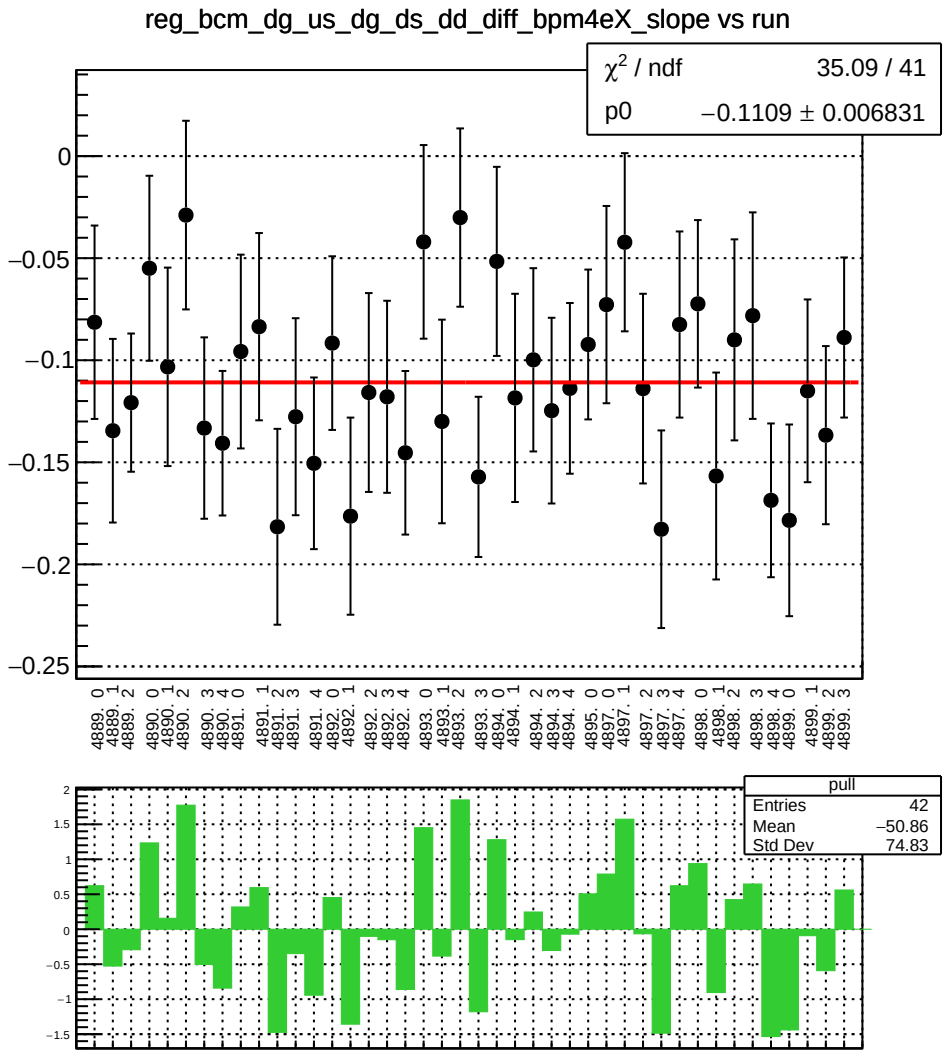

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.87 / 41
p0 0.1693 ± 0.1182
6
4
2
0
−2
−4
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 13.42
Std Dev 5.098
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.102
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

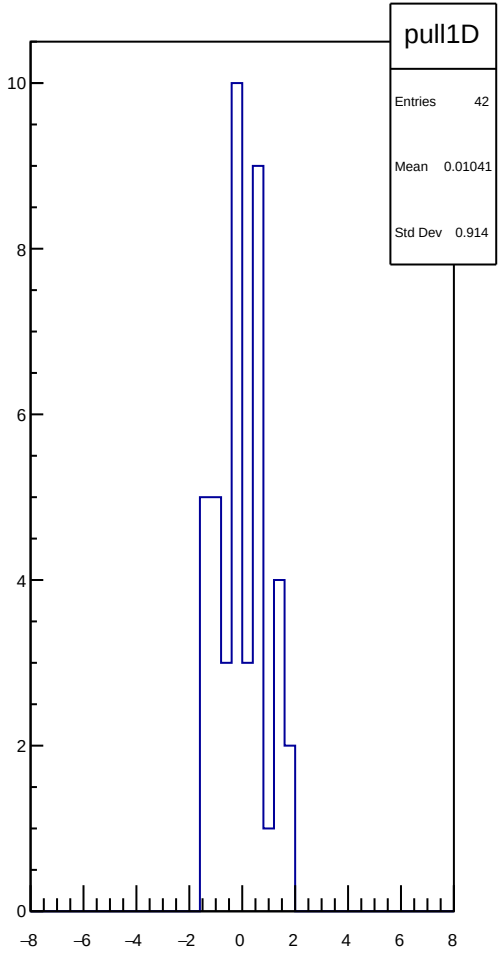

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 39.02 / 41
p0 0.008852 ± 0.02075
pull
Entries 42
Mean 6.289
Std Dev 6.873

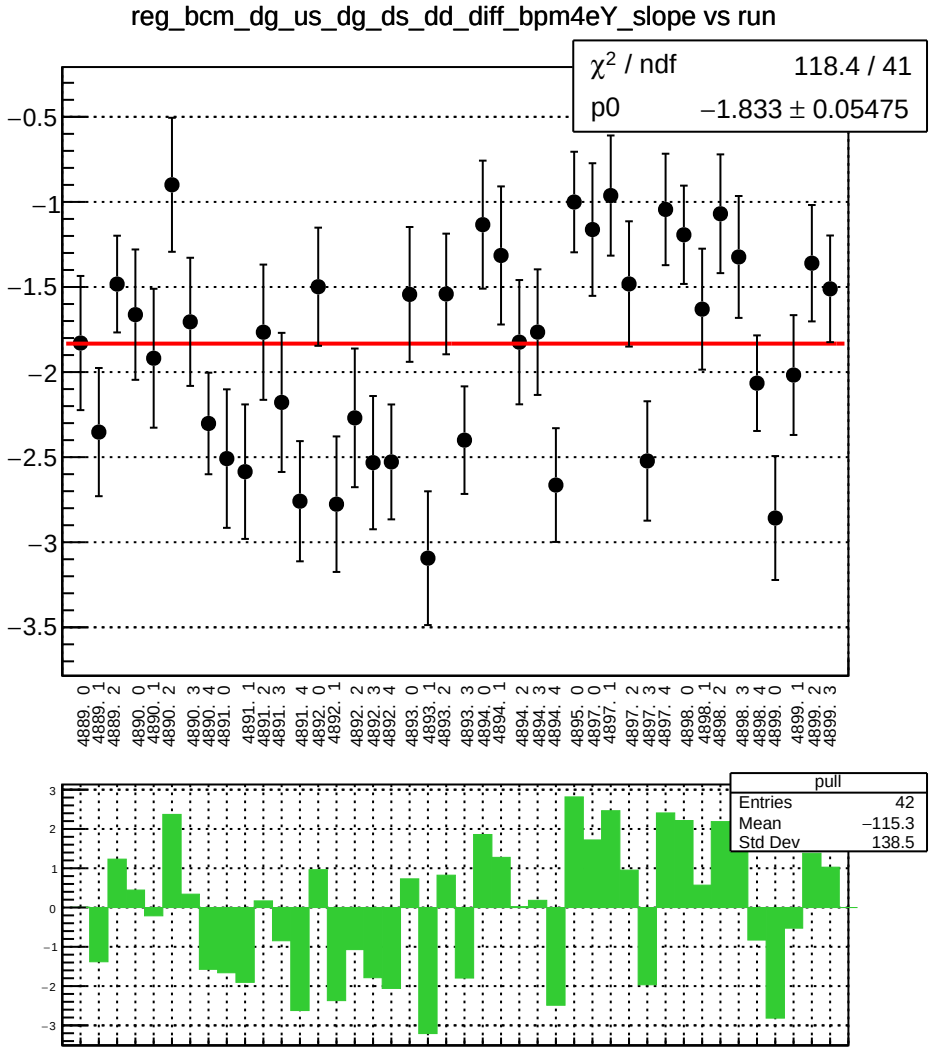

pull1D
Entries 42
Mean 0.1146
Std Dev 0.957

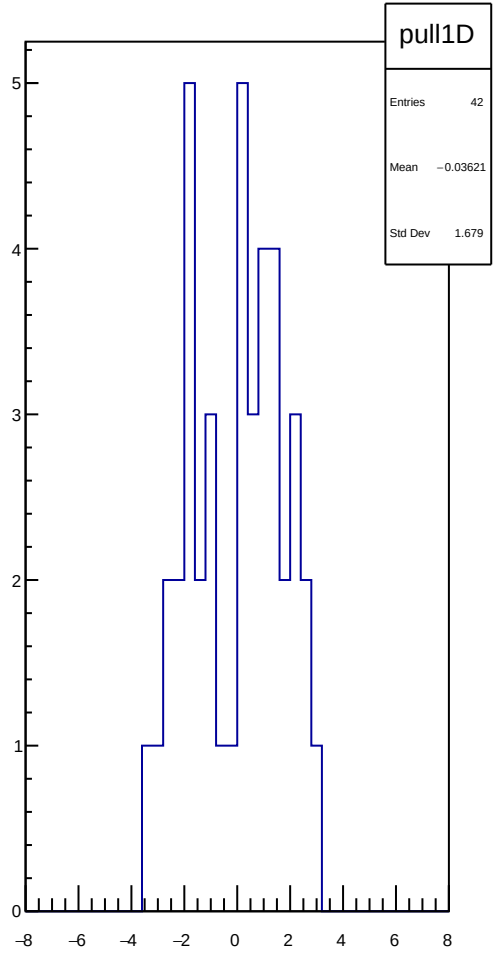

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.19 / 41
p0 −0.0893 ± 0.03634
pull
Entries 42
Mean 40.73
Std Dev 15.56
pull1D
Entries 42
Mean −0.0135
Std Dev 0.9903

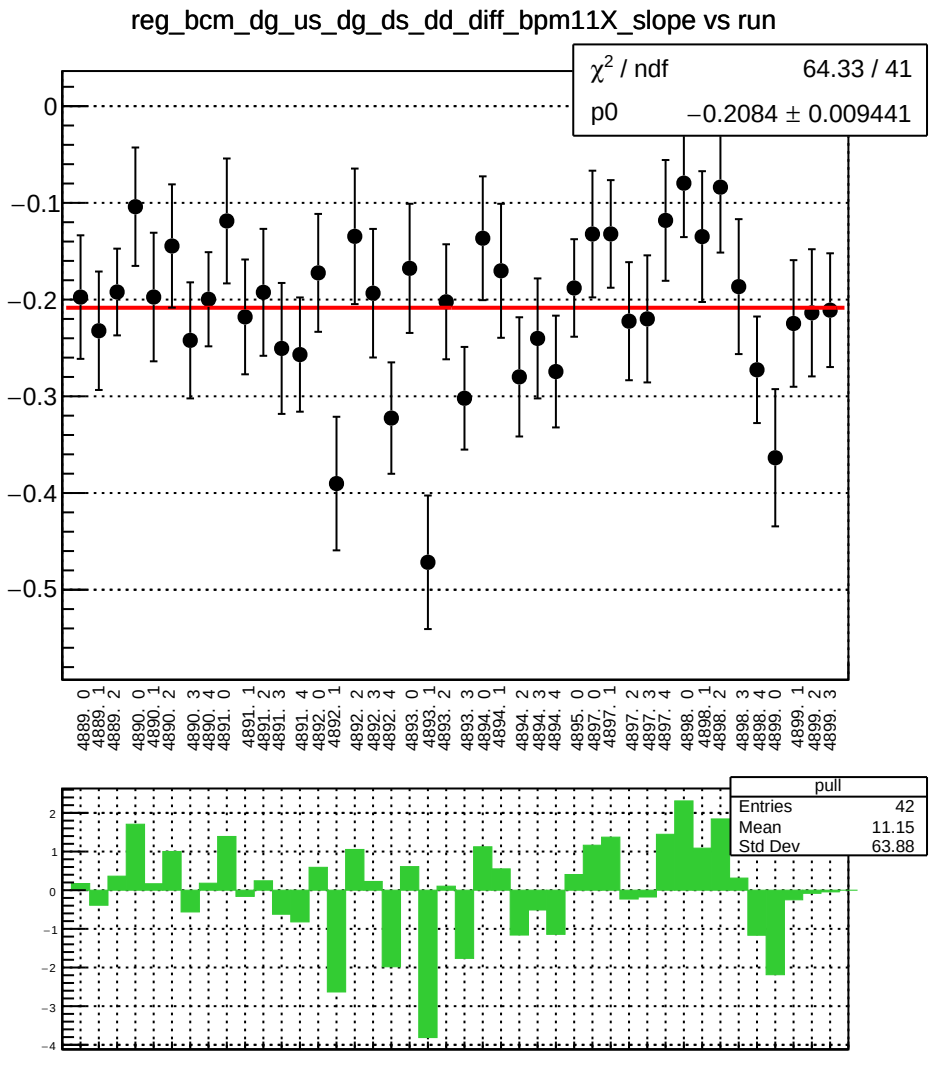

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 129.4 / 41
p0 1.614 ± 0.04925
pull
Entries 42
Mean −141.4
Std Dev 165.3
pull1D
Entries 42
Mean 0.03248
Std Dev 1.755

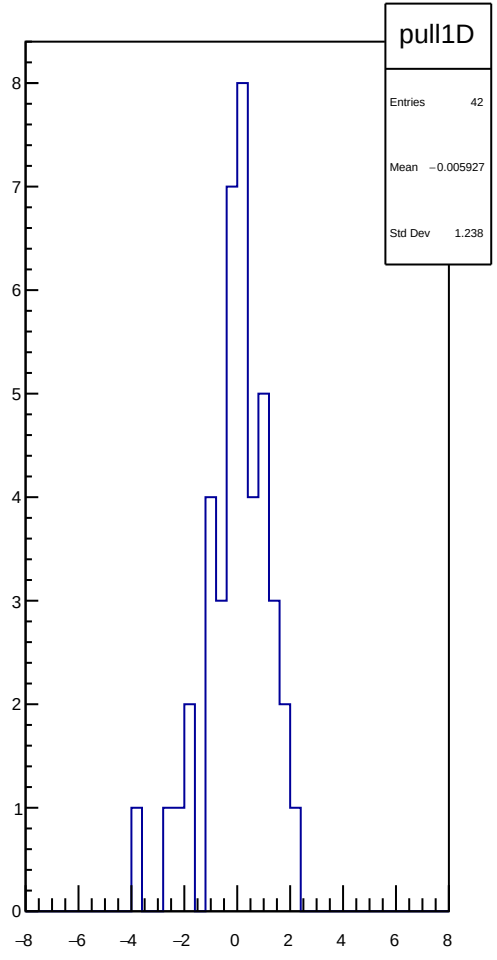

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.09 / 41
p0 −0.1109 ± 0.006831
pull
Entries 42
Mean −50.86
Std Dev 74.83

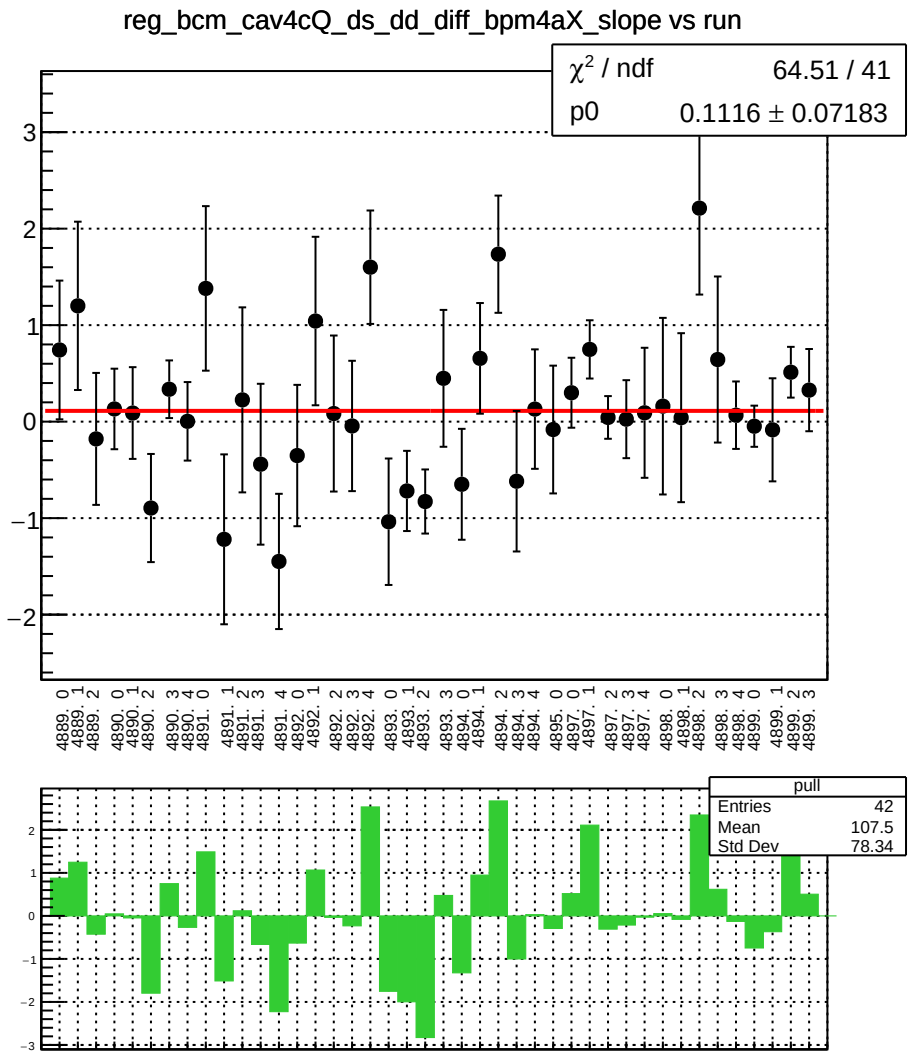

pull1D
Entries 42
Mean 0.01041
Std Dev 0.914

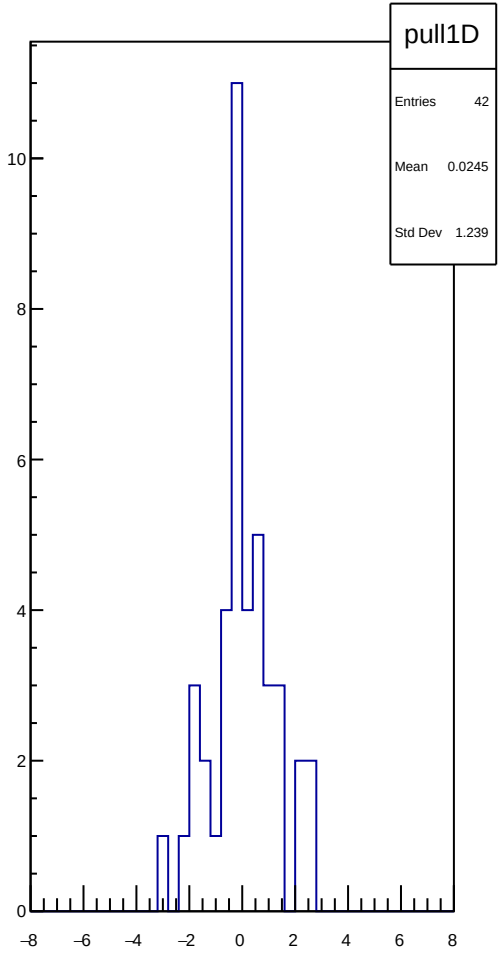

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.4 / 41
p0 −1.833 ± 0.05475
pull
Entries 42
Mean −115.3
Std Dev 138.5

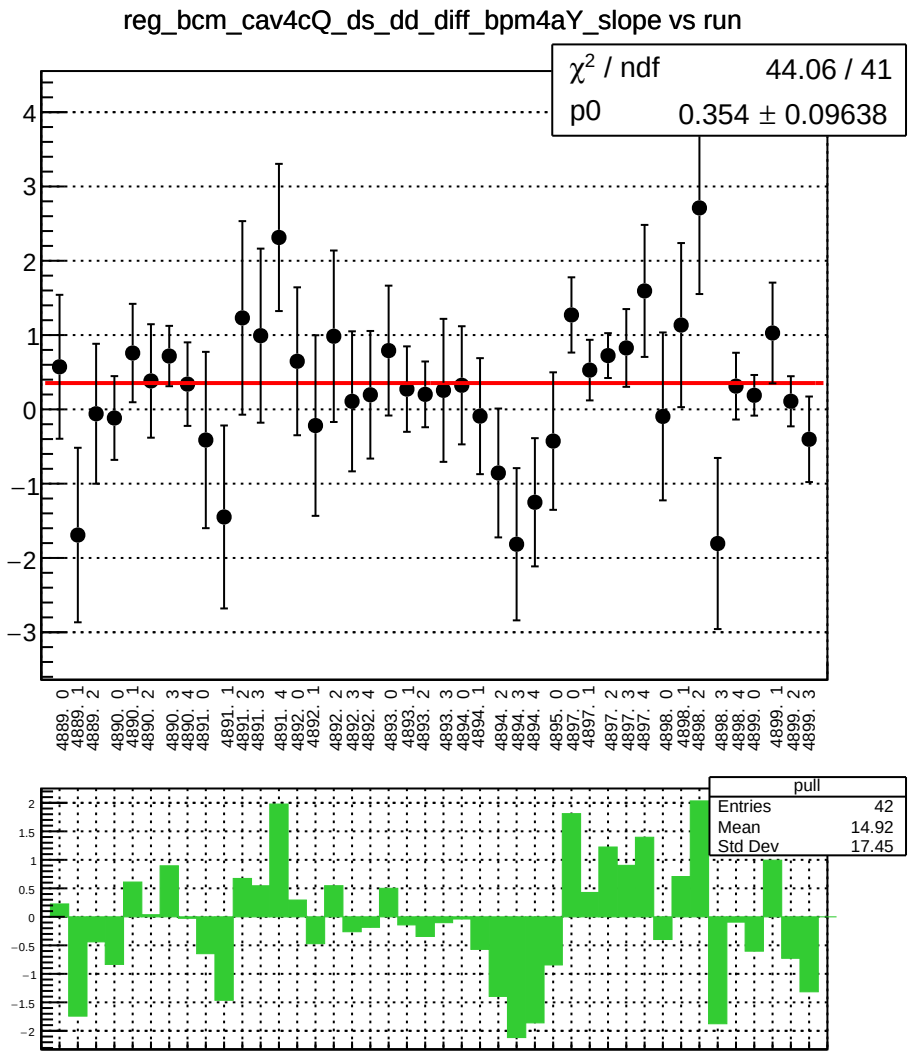

pull1D
Entries 42
Mean −0.03621
Std Dev 1.679

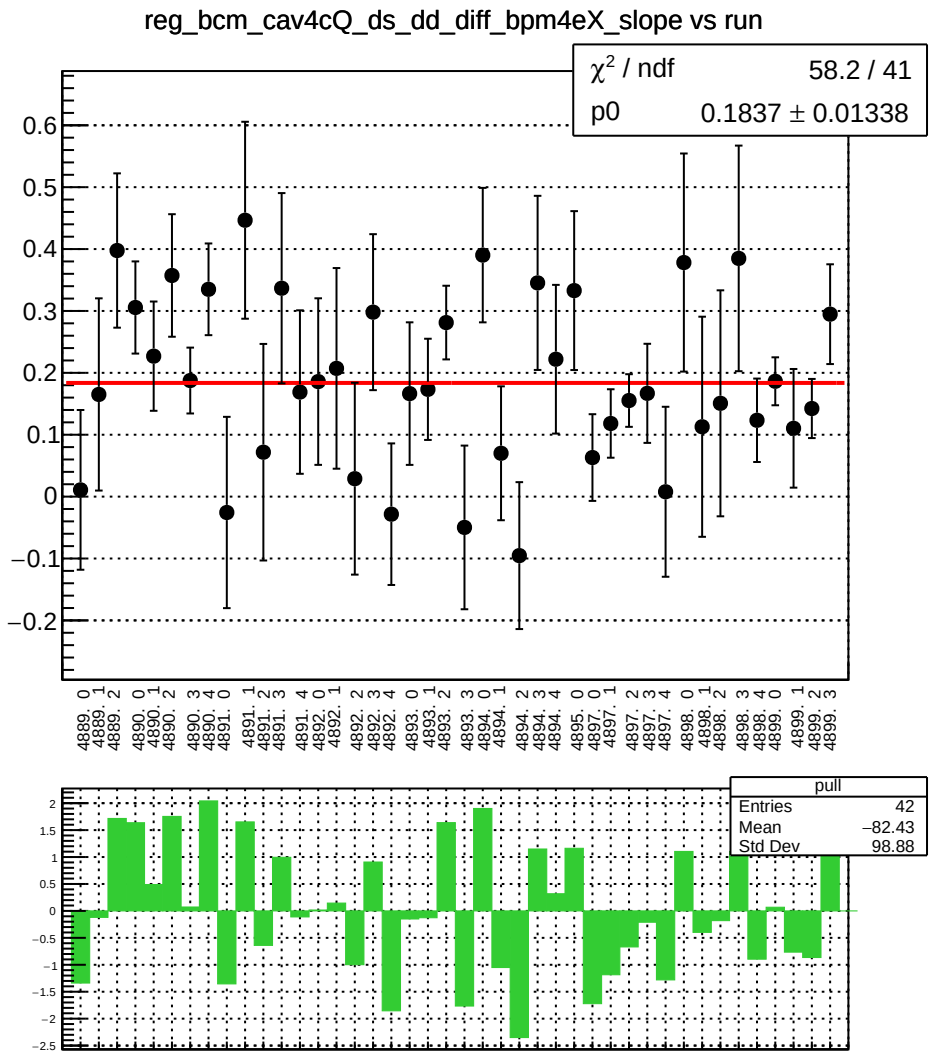

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 64.33 / 41
p0 −0.2084 ± 0.009441
pull
Entries 42
Mean 11.15
Std Dev 63.88

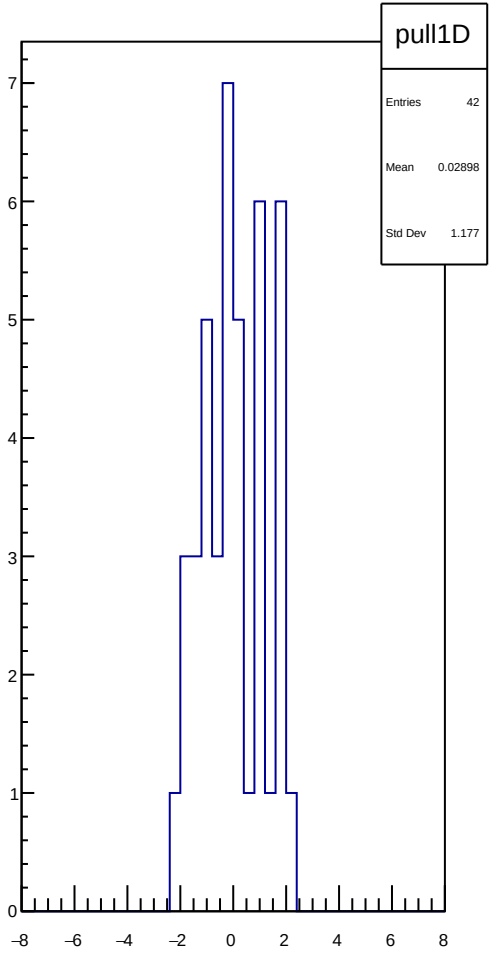

pull1D
Entries 42
Mean −0.005927
Std Dev 1.238

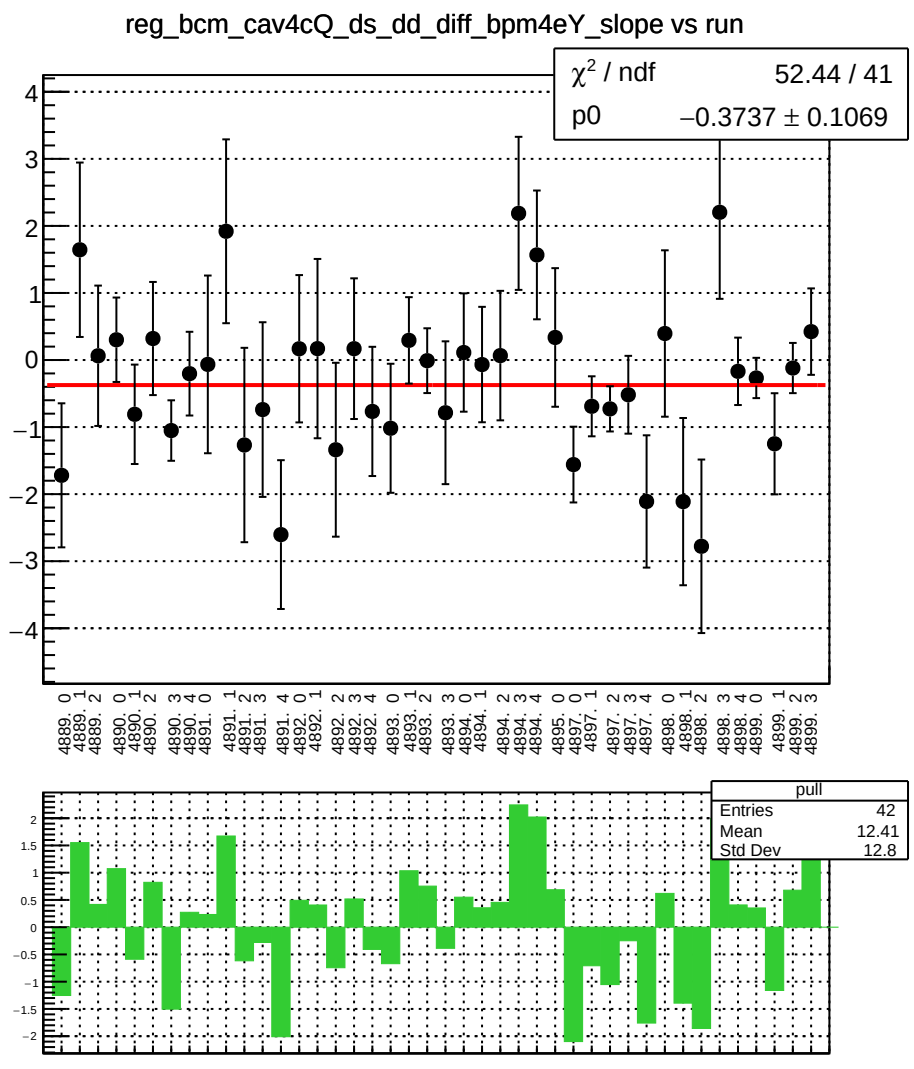

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.51 / 41
p0 0.1116 ± 0.07183
pull
Entries 42
Mean 107.5
Std Dev 78.34

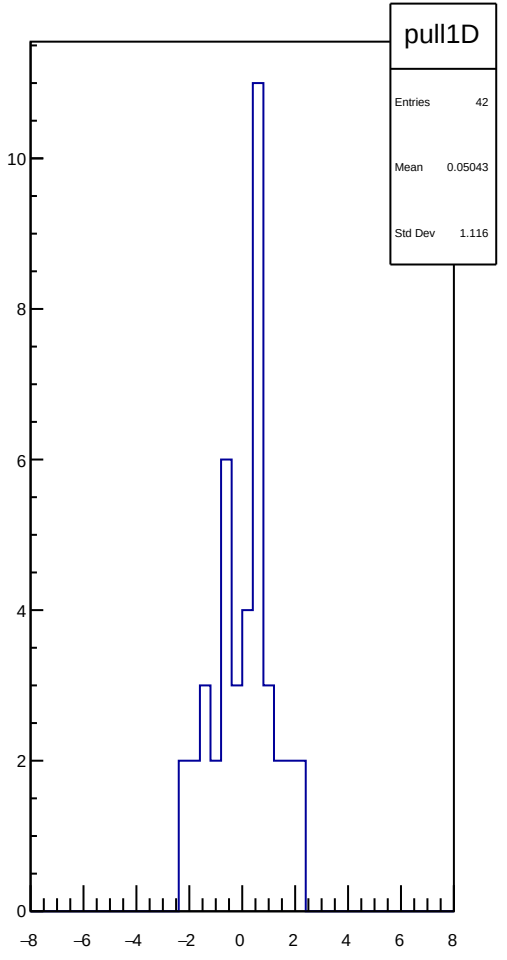

pull1D
Entries 42
Mean 0.0245
Std Dev 1.239

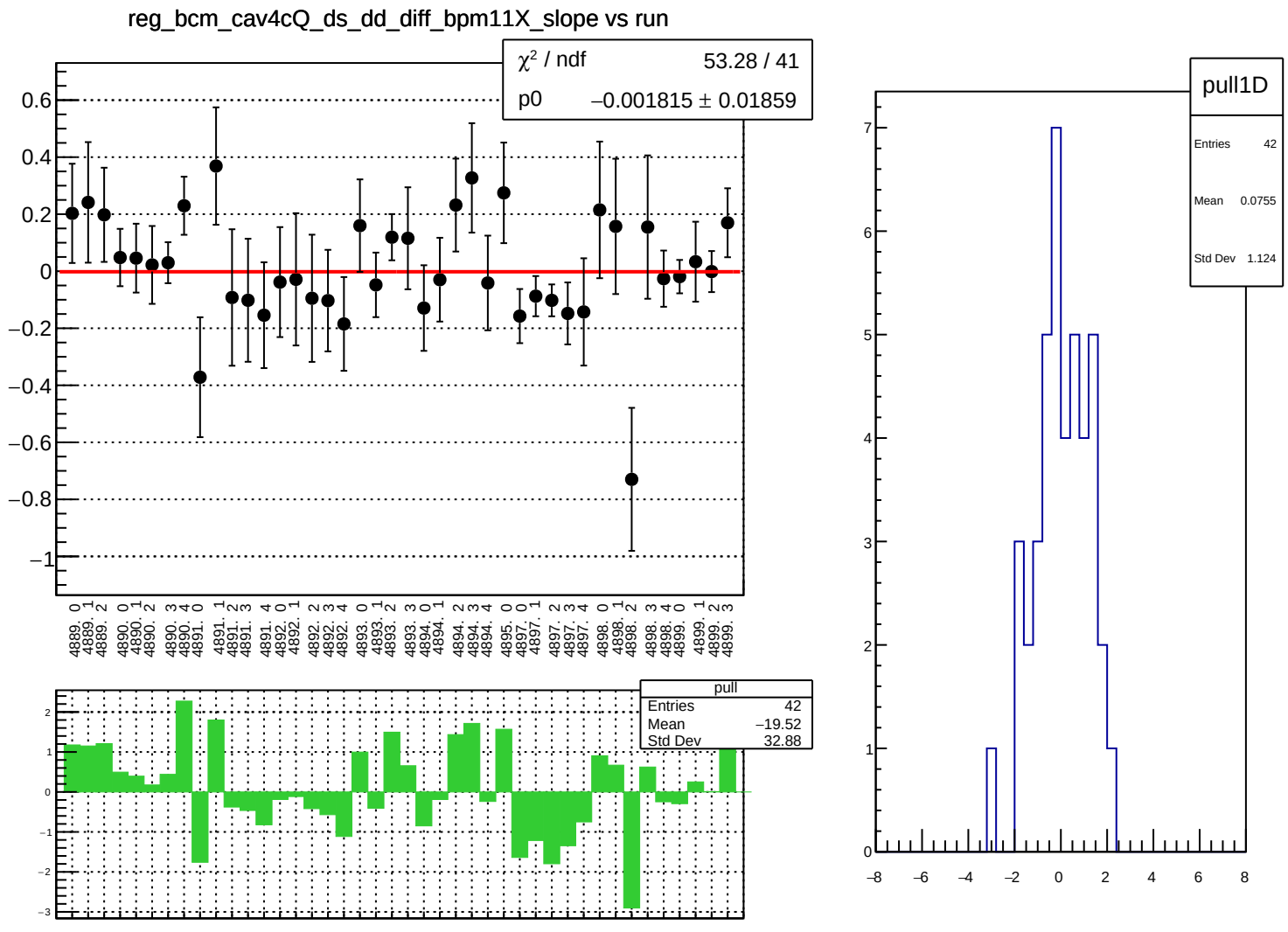

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.06 / 41
p0 0.354 ± 0.09638
pull
Entries 42
Mean 14.92
Std Dev 17.45
pull1D
Entries 42
Mean −0.06395
Std Dev 1.022

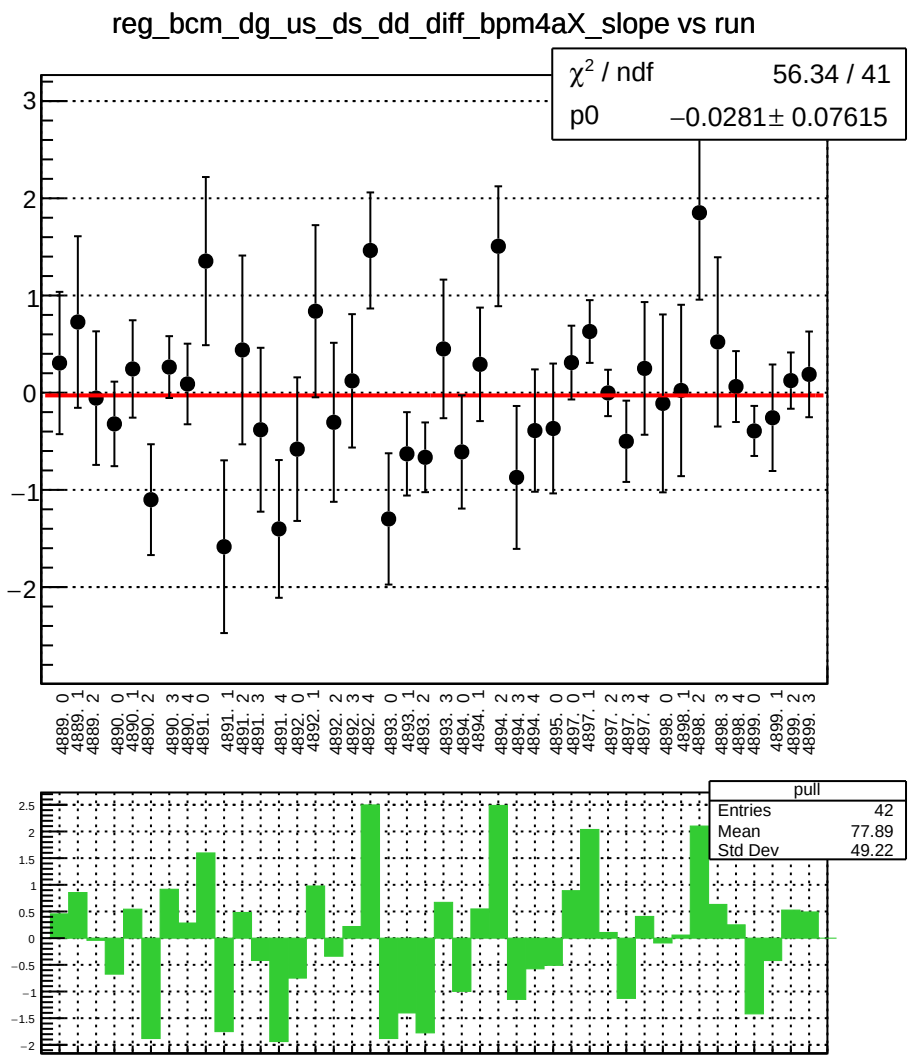

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.2 / 41
p0 0.1837 ± 0.01338
pull
Entries 42
Mean −82.43
Std Dev 98.88

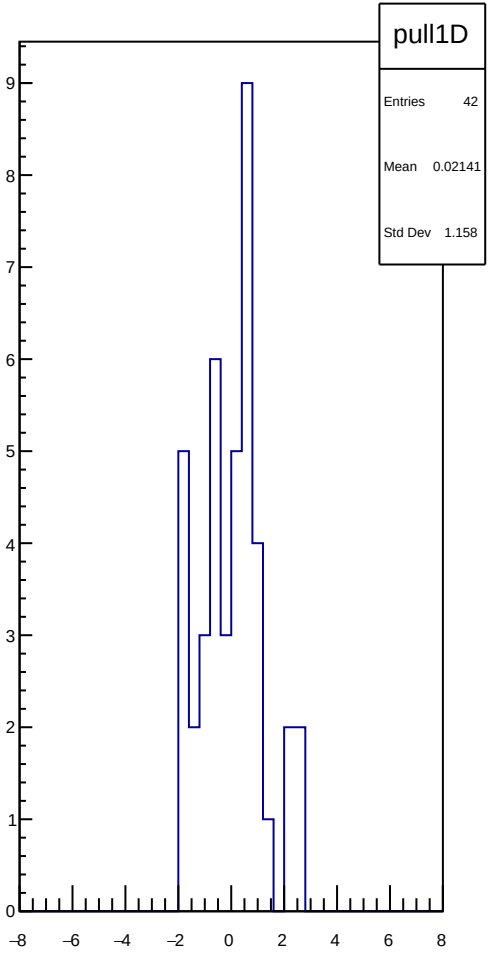

pull1D
Entries 42
Mean 0.02898
Std Dev 1.177

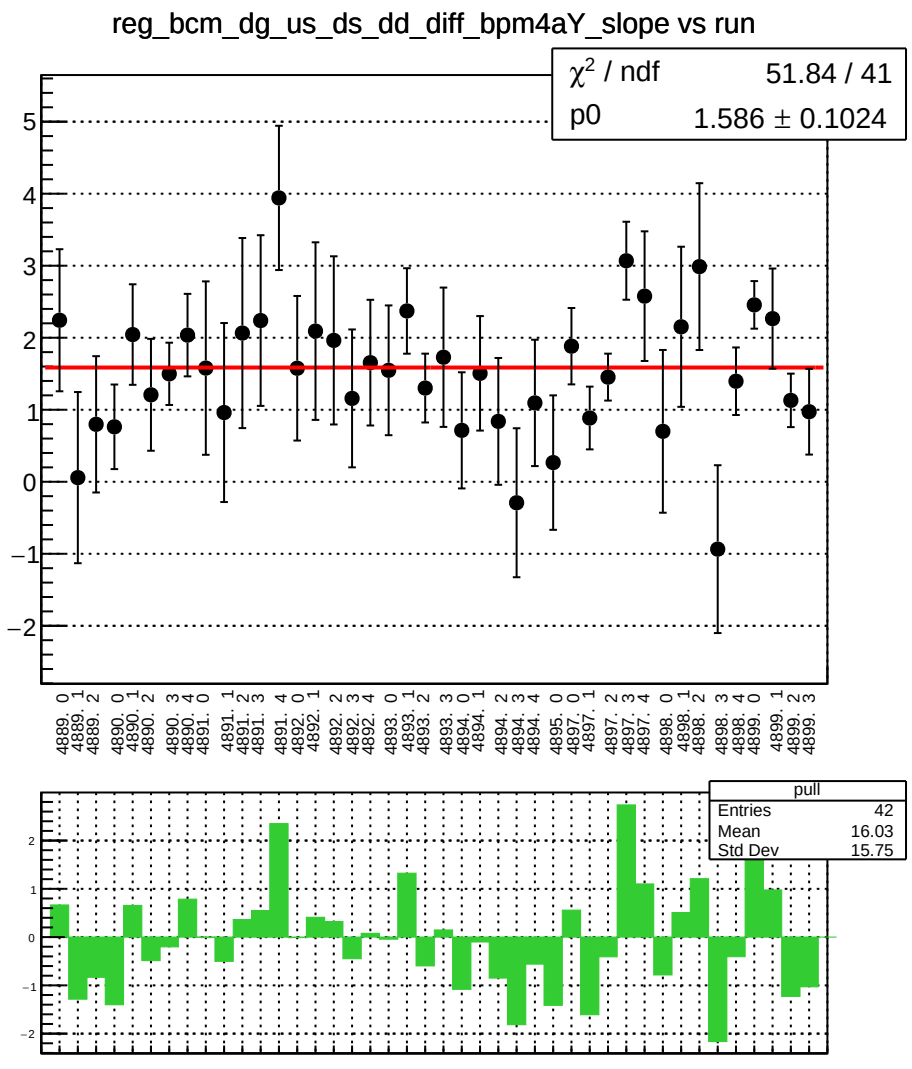

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.44 / 41
p0 −0.3737 ± 0.1069
pull
Entries 42
Mean 12.41
Std Dev 12.8

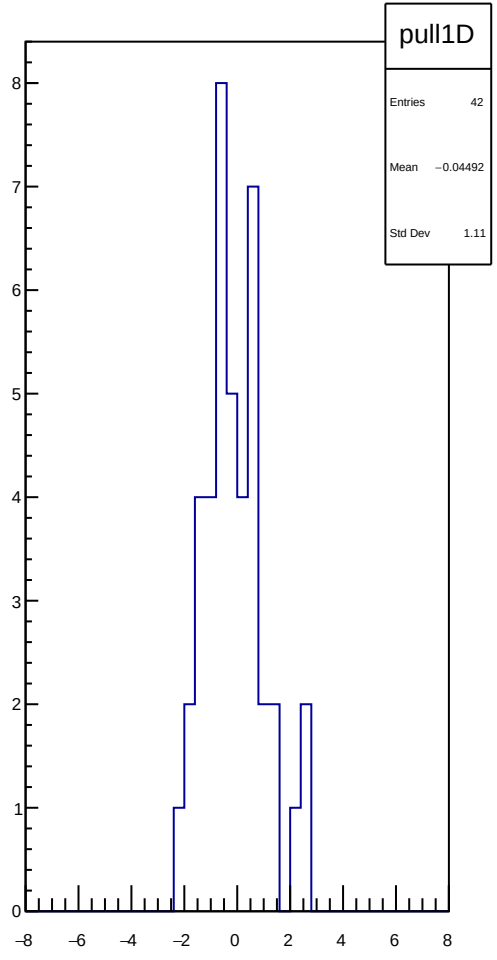

pull1D
Entries 42
Mean 0.05043
Std Dev 1.116

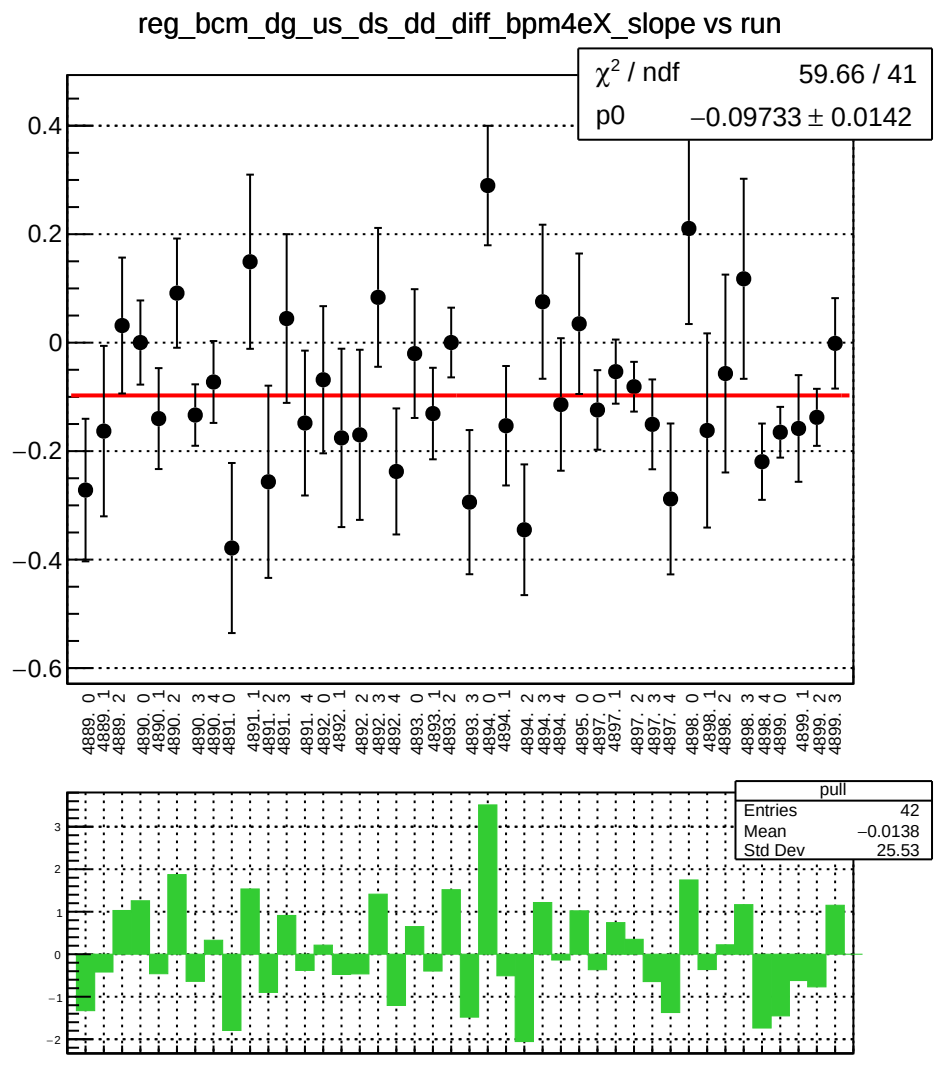

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 53.28 / 41
p0 −0.001815 ± 0.01859
pull
Entries 42
Mean −19.52
Std Dev 32.88
pull1D
Entries 42
Mean 0.0755
Std Dev 1.124

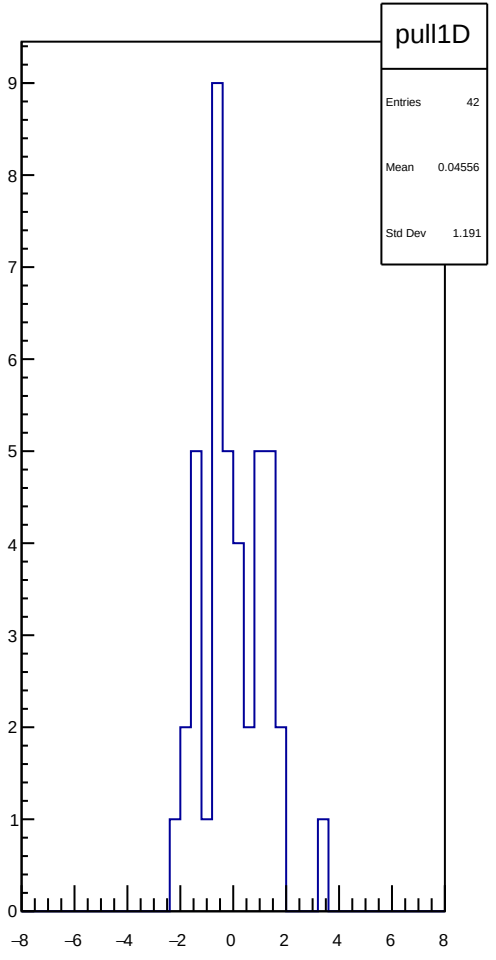

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.34 / 41
p0 −0.0281± 0.07615
pull
Entries 42
Mean 77.89
Std Dev 49.22

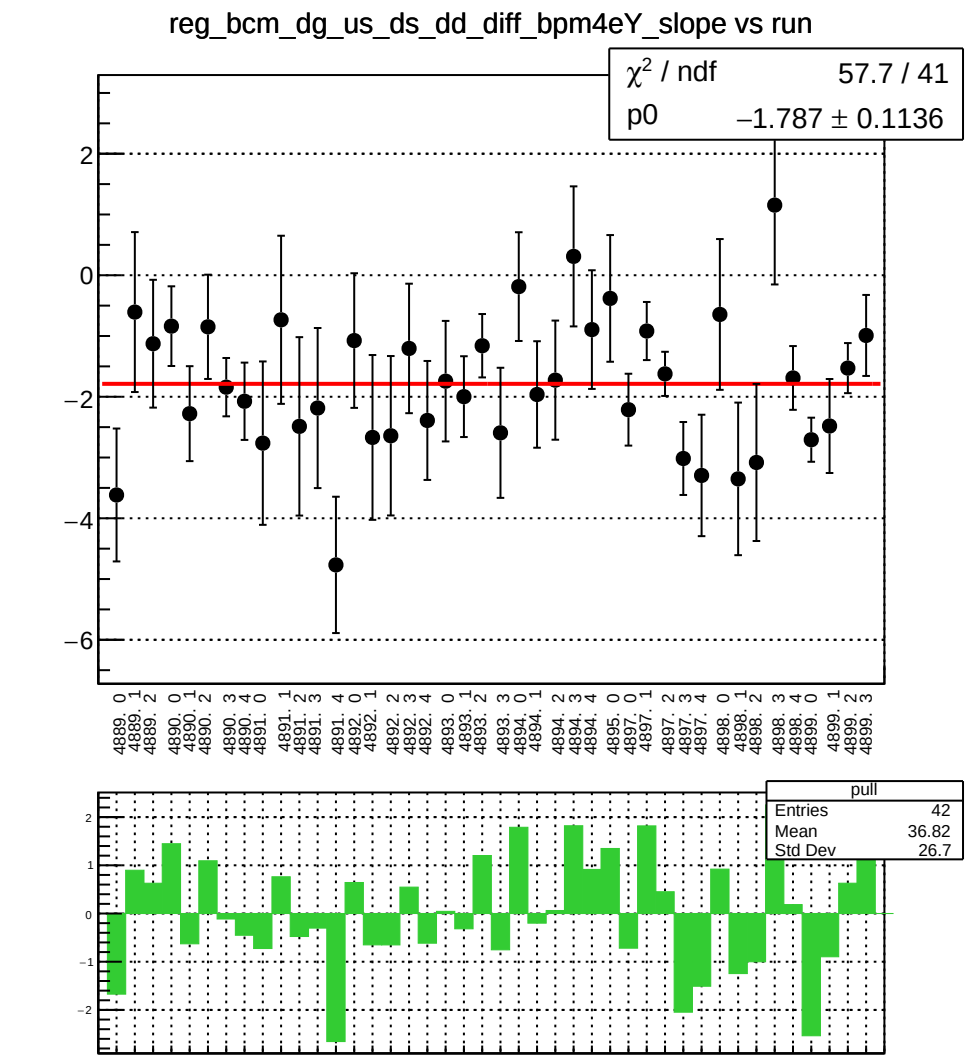

pull1D
Entries 42
Mean 0.02141
Std Dev 1.158

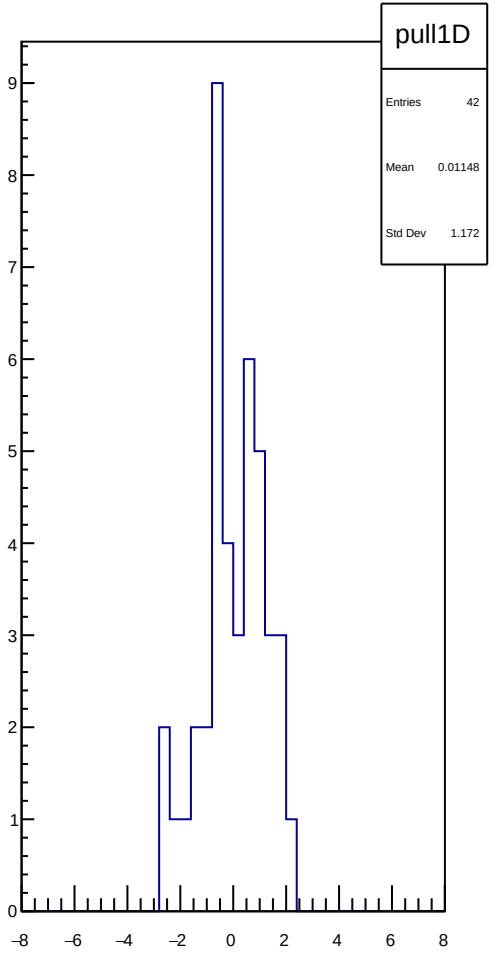

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.84 / 41
p0 1.586 ± 0.1024
pull
Entries 42
Mean 16.03
Std Dev 15.75

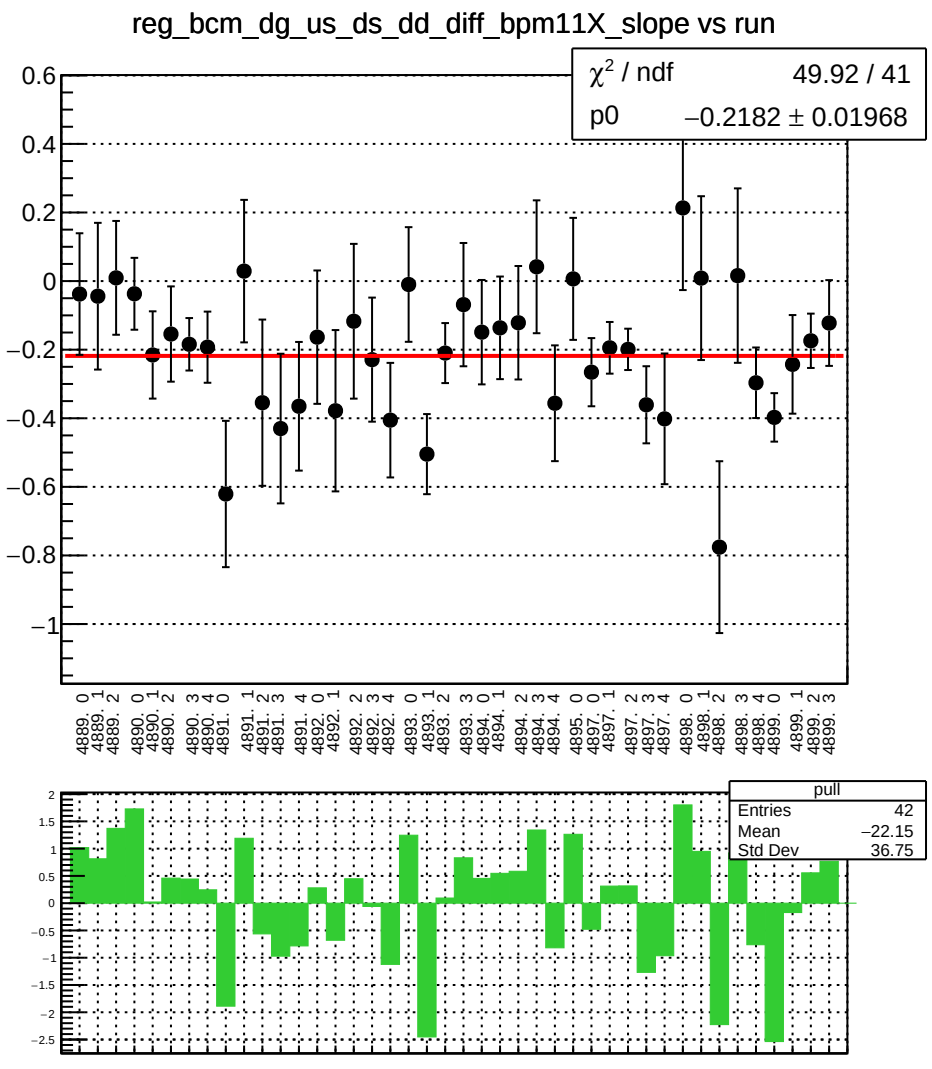

pull1D
Entries 42
Mean −0.04492
Std Dev 1.11

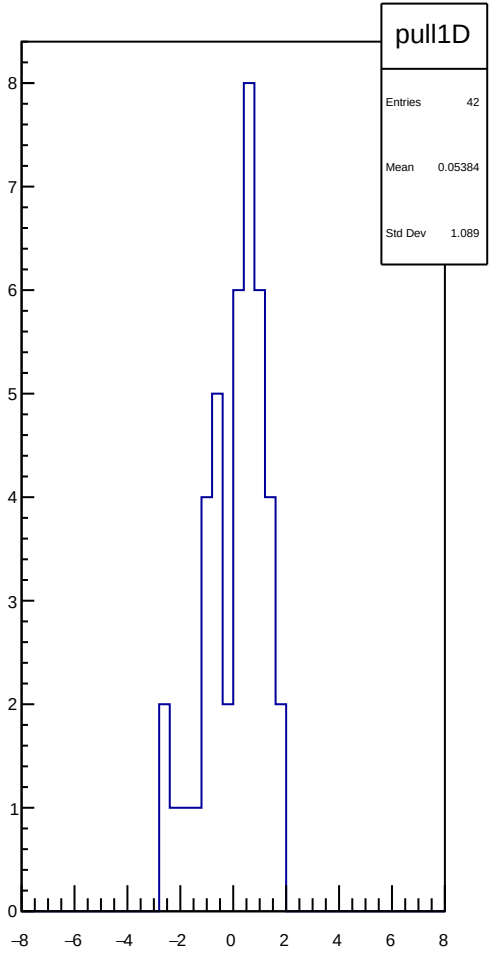

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.66 / 41
p0 −0.09733 ± 0.0142
pull
Entries 42
Mean −0.0138
Std Dev 25.53

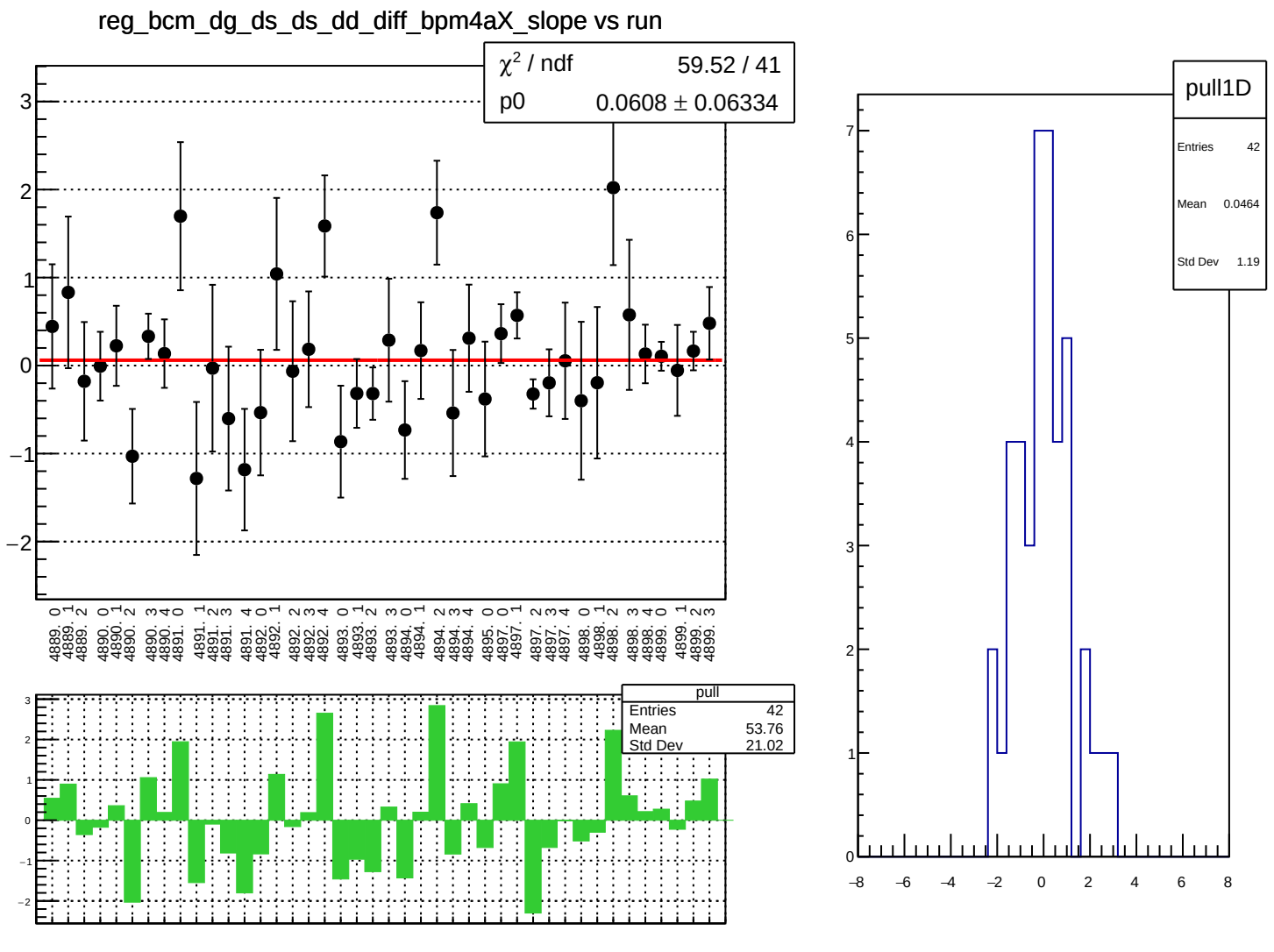

pull1D
Entries 42
Mean 0.04556
Std Dev 1.191

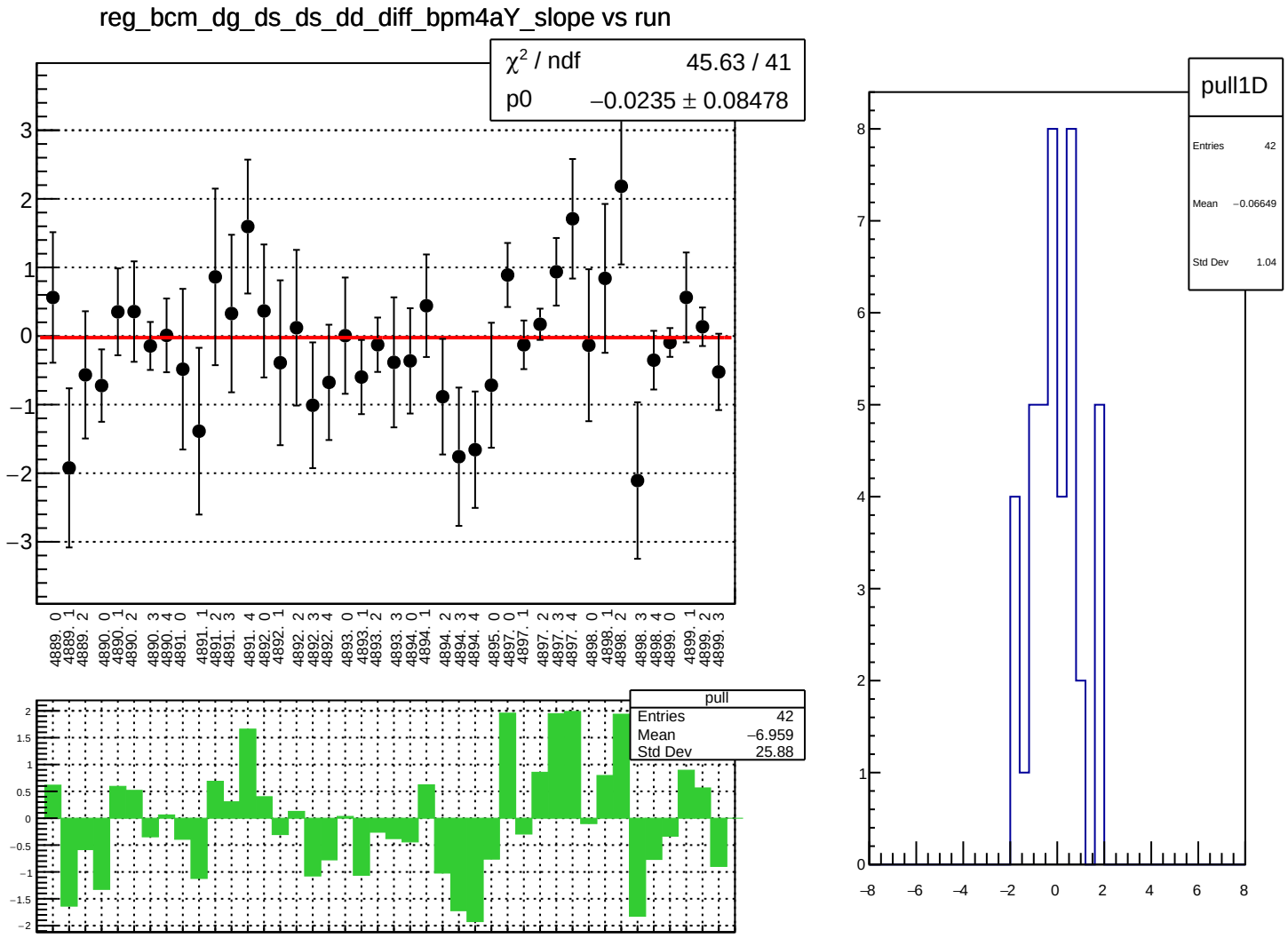

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.7 / 41
p0 −1.787 ± 0.1136
pull
Entries 42
Mean 36.82
Std Dev 26.7

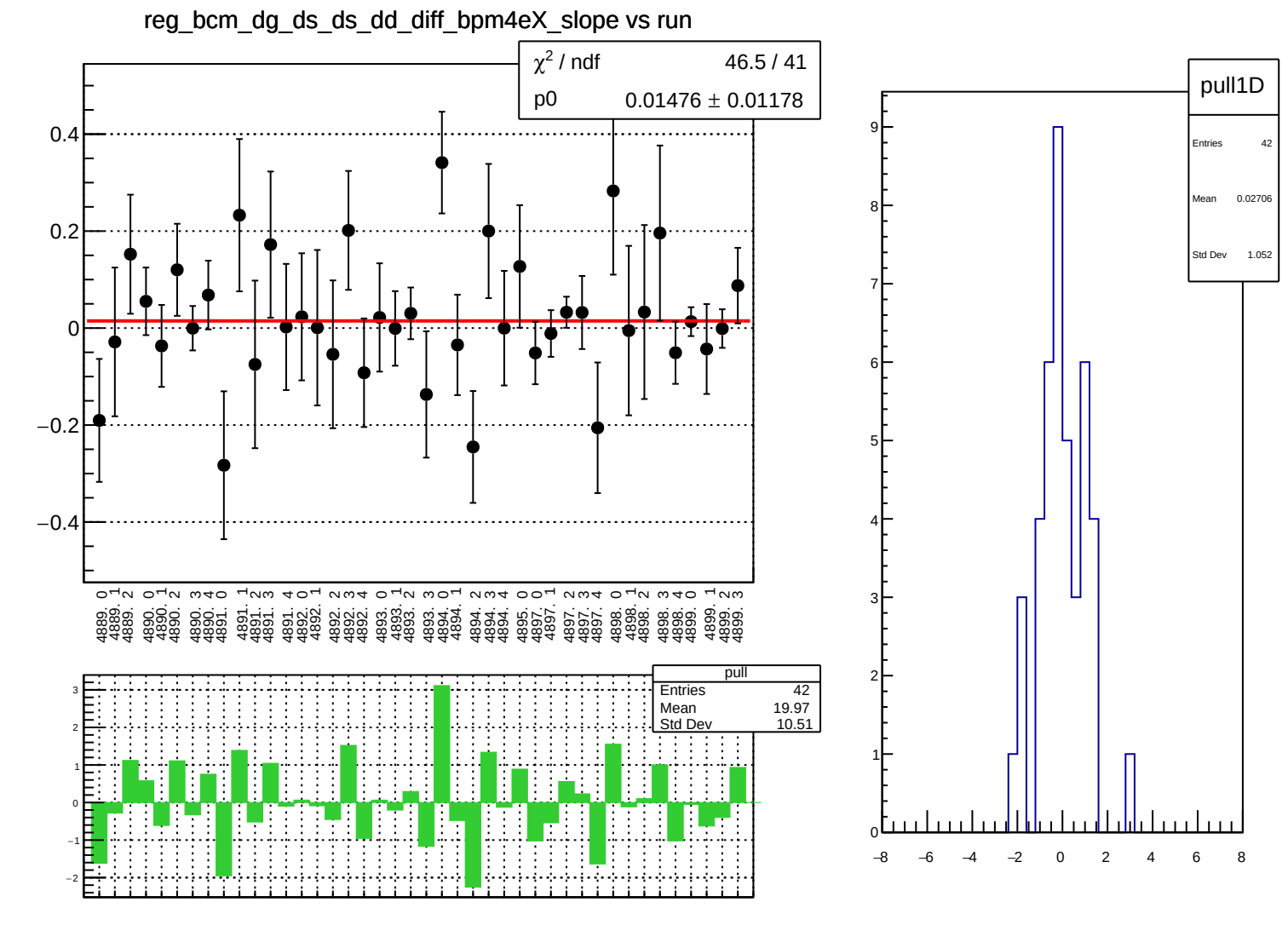

pull1D
Entries 42
Mean 0.01148
Std Dev 1.172

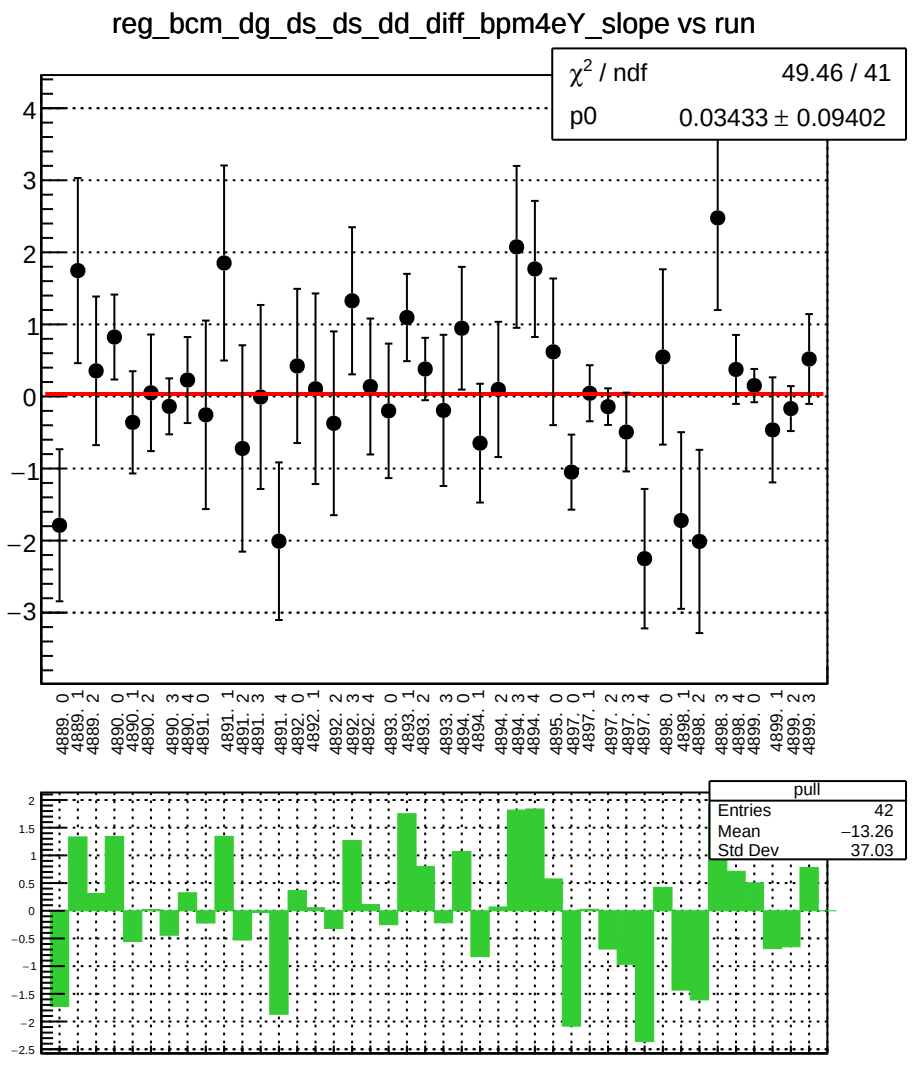

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 49.92 / 41
p0 −0.2182 ± 0.01968
pull
Entries 42
Mean −22.15
Std Dev 36.75

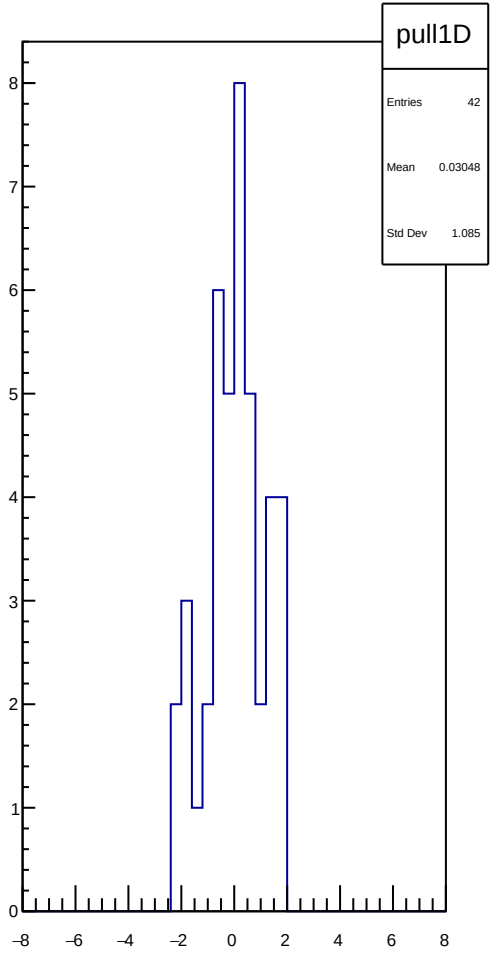

pull1D
Entries 42
Mean 0.05384
Std Dev 1.089

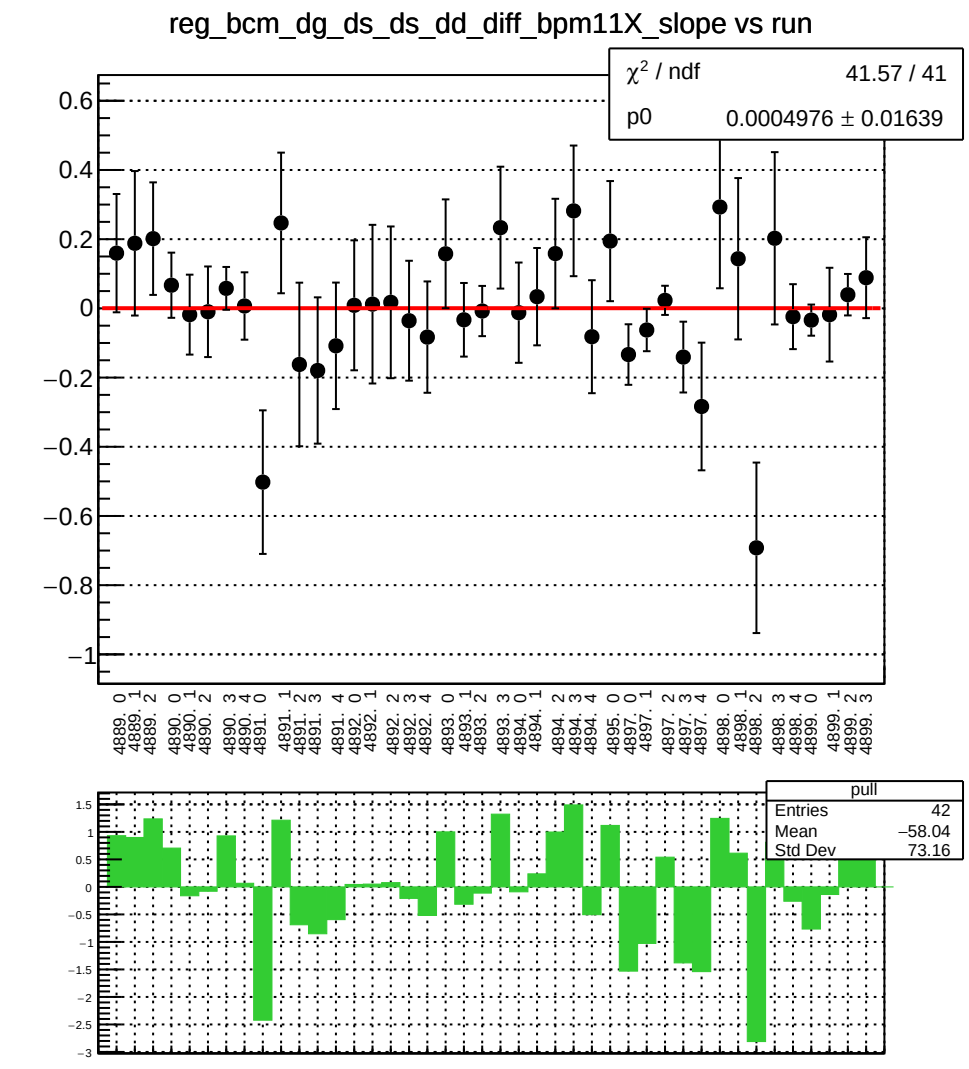

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 59.52 / 41
p0 0.0608 ± 0.06334
pull
Entries 42
Mean 53.76
Std Dev 21.02
pull1D
Entries 42
Mean 0.0464
Std Dev 1.19

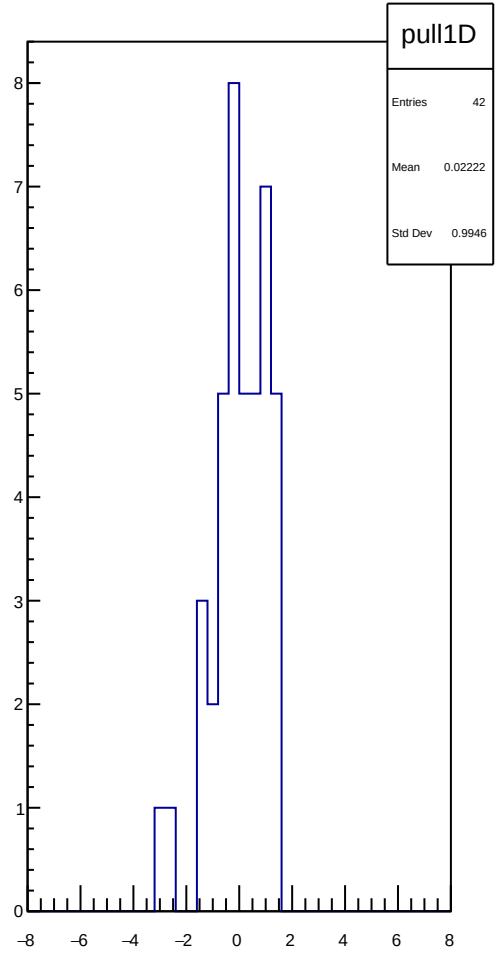

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.63 / 41
p0 −0.0235 ± 0.08478
pull
Entries 42
Mean −6.959
Std Dev 25.88
pull1D
Entries 42
Mean −0.06649
Std Dev 1.04


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.5 / 41
p0 0.01476 ± 0.01178
0.4
0.2
0
−0.2
−0.4
4889. 0
4889. 1
4889. 2
4890. 0
4890. 1
4890. 2
4890. 3
4890. 4
4891. 0
4891. 1
4891. 2
4891. 3
4891. 4
4892. 0
4892. 1
4892. 2
4892. 3
4892. 4
4893. 0
4893. 1
4893. 2
4893. 3
4894. 0
4894. 1
4894. 2
4894. 3
4894. 4
4895. 0
4897. 0
4897. 1
4897. 2
4897. 3
4897. 4
4898. 0
4898. 1
4898. 2
4898. 3
4898. 4
4899. 0
4899. 1
4899. 2
4899. 3
pull
Entries 42
Mean 19.97
Std Dev 10.51
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.02706
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.46 / 41
p0 0.03433 ± 0.09402
pull
Entries 42
Mean −13.26
Std Dev 37.03


pull1D
Entries 42
Mean 0.03048
Std Dev 1.085


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 41.57 / 41
p0 0.0004976 ± 0.01639
pull
Entries 42
Mean −58.04
Std Dev 73.16


pull1D
Entries 42
Mean 0.02222
Std Dev 0.9946